Luxembourg Radio Interface specifications according to Directive 1999/5/EC

(Version of: 28 October 2016)

Interface Regulations

SRD

UWB applications (Generic)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications*		*Generic UWB*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for generic UWB defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *EN 302065; EN 302066* *ECC/DEC/(06)04*		*EN 302065: UWB* *EN 302066: GPR/WPR*
Remarks			
Notification number	*2015/12/L*		
Equipment class	*Class 1 + Class 2*		*Refer to Sub-classes (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

UWB applications (LT1)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications*		*Location Tracking Systems Type 1 (LT1)*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for LT1 UWB defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *EN 302500* *ECC/REC(11)10*		
Remarks			
Notification number	*2015/12/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

UWB applications (road and rail)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications*		*UWB devices installed in road and rail vehicles*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for UWB devices installed in road and rail vehicles defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *EN 302065* *ECC/DEC/(06)04*		
Remarks			
Notification number	*2015/12/L*		
Equipment class	*Class 1 + Class 2*		*Refer to Sub-classes (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

UWB applications (on board aircraft)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications*		*UWB onboard aircraft*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for UWB onboard aircraft defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *ECC/DEC/(12)03* *ERC REC 70-03 Annex 1n1*		
Remarks			
Notification number	*2015/12/L*		
Equipment class	*Class 1 + Class 2*		*Refer to Sub-classes (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

UWB applications (Material sensing)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications* *Material Sensing*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for Material Sensing defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *ECC/DEC/(07)01*		
Remarks			
Notification number	*2015/12/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

UWB applications (BMA)

Parameter	Description		Comment
	0.009 - 3000000 MHz		*Harmonised radio spectrum for UWB (2014/702/EU)*
	Short Range Devices *UWB applications* *BMA*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Power limits, mitigation techniques and special conditions for BMA defined in the annex of the European Commission decision 2014/702/EU are applicable.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Operation on a non-interference, non-protected basis*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2007/131/EC, 2009/343/EC, 2014/702/EU* *ECC/DEC/(07)01, ERC REC 70-03 Annex 6* *EN 302 435*		
Remarks			
Notification number	*2015/12/L*		
Equipment class	*Class 1*		*Refer to Sub-class 57c (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*6.765 - 6.795 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for inductive applications*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 1a*		*Band nr.22b*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 114 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*13.553 - 13.567 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for inductive applications*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 1b*		*Band nr.27c*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 24 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*26.957 - 27.283 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for inductive applications*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m* *10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c*		*Band nr.28b*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 25 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*26.99 - 27 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for model controls with a duty cycle of 100%.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 10 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decisiom 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c1*		*Band no.29*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 118 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*27.04 - 27.05 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for model controls with a duty cycle of 100%.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 10 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decisiom 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c1*		*Band no.30*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 119 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*27.09 - 27.1 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for model controls with a duty cycle of 100%.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 10 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decisiom 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c1*		*Band no.31*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 120 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*27.14 - 27.15 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for model controls with a duty cycle of 100%.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 10 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decisiom 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c1*		*Band no.32*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 121 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*27.19 - 27.2 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for model controls with a duty cycle of 100%.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 10 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decisiom 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1c1*		*Band no.33*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 122 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*40.66 - 40.7 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Video applications should only be used above 2.4 GHz*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1d*		*Band nr.35*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 19 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*138.2 - 138.45 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 1.0 %*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Video applications should only be used above 2.4 GHz*		
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1e*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*169.4 - 169.475 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also identified for "Tracking, tracing and data acquisition" and "Radio microphone applications including aids for the hearing impaired"*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 50 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 1.0 %*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC/(05)02* *EN 300 220* *ERC REC 70-03 Annex 1f1*		*Band no. 37c*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 80 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*169.4 - 169.4875 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*Equipment that concentrates or multiplexes individual equipment is excluded.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 0.1 %*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC/(05)02* *EN 300 220* *ERC REC 70-03 Annex 1f2*		*Band no. 38*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 128 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*169.4875 - 169.5875 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*Equipment that concentrates or multiplexes individual equipment is excluded.* *The frequency band is also identified for "Radio microphone applications including aids for the hearing impaired" use*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 0.001 %, from 00:00-06:00 <0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC/(05)02* *EN 300 220* *ERC REC 70-03 Annex 1f3*		*Band no. 39b*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 124 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*169.5875 - 169.8125 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*Equipment that concentrates or multiplexes individual equipment is excluded.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1%*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC/(05)02* *EN 300 220* *ERC REC 70-03 Annex 1f4*		*Band no. 40*
Remarks			
Notification number			
Equipment class	*Class 1*		*Refer to Sub-class 129 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*433.05 - 434.79 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1g1*		*Band nr.44b and 45b*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 20 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*433.05 - 434.79 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Power density limited to -13 dBm/10kHz for wideband modulation with a bandwidth greater than 250 kHz.*
	Antenna Gain		
	Radiated power	*1 mW e.r.p.* *-13 dBm/10kHz*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	*Note 11: Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1g2*		*Band nr.44a and 45a*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 61 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*434.04 - 434.79 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 25 KHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	*Note 11: Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 1g3*		*Band nr.45c*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		*Sub-class 125 :Analogue audio applications other than voice are excluded. Analogue video applications are excluded*
Equipment class	*Class 1*		*Refer to Sub-class 63 (2000/299/EC) (1mW erp)* *Refer to Sub-class 65 (2000/299/EC) (25 kHz)* *Refer to Sub-class 125 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*863 - 870 MHz*		*Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*<= 100 kHz, for 47 or more channels (note 2)*	*Note 2:* *"The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz."* *Note 5:* *"Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."*
	Designation of emission		
	Modulation / Occupied bandwidth	*FHSS*	
	Reference frequency		
Transmit power / Power density	**Output power**		*Note 6:* *"For other wide-band modulation than FHSS and DSSS with a bandwidth of 200 kHz to 3 MHz, duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to <= 10 mW e.r.p."*
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1 % or LBT*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be userdependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			*Note 4:* *Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.* *Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.* *In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.*
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.1*		
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*863 - 870 MHz*		*Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	*Note 5: "Duty cycle may be increased to 1% if the band islimited to 865-868 MHz."* *Note 6: "For wide-band techniques, other than FHSS, operating with a bandwidth of 200 kHz to 3 MHz, the duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to ≤10 mW e.r.p.."*
	Designation of emission		
	Modulation / Occupied bandwidth	*DSSS and other wideband modulation other than FHSS*	
	Reference frequency		
Transmit power / Power density	**Output power**		*Note 7: "The power density can be increased to +6.2dBm/100 kHz and +0.8dBm/100 kHz, if the band of operation is limited to 865-868 MHz and 865-870 MHz respectively."*
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.* *-4.5 dBm/100kHz*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1 % or LBT+ AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			*Note 4:* *Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.* *Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.* *In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.*
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.2*		
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*863 - 870 MHz*		*Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*<=100kHz, for 1 or more channels <=300Khz*	*Note 2:* *"The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz"* *Note 5:* *"Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."*
	Designation of emission		
	Modulation / Occupied bandwidth	*Narrow / wide-band modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1 % or LBT + AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Video applications should only be used above 2.4 GHz*		*Note 4:* *Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.* *Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.* *In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.*
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.3*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	863 - 865 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*0.1 % or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0,1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue audio applications other than voice are excluded.*		*Analogue video applications are excluded.*
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.46a*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 66 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	865 - 868 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*1 % or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue audio applications other than voice are excluded.*		*Analogue video applications are excluded.*
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.47*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 67 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*868 - 868.6 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing, for 1 or more channels see note 2*	*No channel spacing, however the whole stated frequency band may be used.* *Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz."* *Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."*
	Designation of emission		
	Modulation / Occupied bandwidth	*Narrow / wide-band modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 1.0 % or LBT + AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			*Note 4:* *Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.* *Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.* *In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.*
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.4*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	868 - 868.6 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*1 % or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue video applications are excluded.*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.48*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 28 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*868.7 - 869.2 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing, for 1 or more channels see note 2*	*No channel spacing, however the whole stated frequency band may be used.* *Note 2:* *"The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz."*
	Designation of emission		
	Modulation / Occupied bandwidth	*Narrow / wide-band modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1 % or LBT + AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			*Note 4:* *Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.* *Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.* *In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.*
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.5*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	868.7 - 869.2 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*0.1 % or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.* *Alternatively a duty cycle of 0.1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue video applications are excluded.*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.50*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 29 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*869.4 - 869.65 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing (1 or more channels)*	*The whole stated frequency band may be used as 1 channel for high-speed data transmission*
	Designation of emission		
	Modulation / Occupied bandwidth	*Narrow / wide-band modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<=500 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<=10% or LBT + AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Video applications should only be used above 2.4 GHz*		
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.6*		
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*869.4 - 869.65 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*25kHz or see comment*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*10% or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.* *Alternatively a duty cycle of 10 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue video applications are excluded.*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.54b*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 30 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	869.4 - 869.65 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*0.1% or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.* *Alternatively a duty cycle of 0.1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue audio applications other than voice are excluded.*		*Analogue video applications are excluded.*
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.54a*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 130 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*869.7 - 870 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing (1 or more channels)*	*No channel spacing, however the whole stated frequency band may be used.*
	Designation of emission		
	Modulation / Occupied bandwidth	*Narrow / wide-band modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		*Note 11:* *"Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission."*
	Antenna Gain		
	Radiated power	*a) <=5 mW e.r.p.* *b) <=25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*a) up to 100%* *b) up to 1% or LBT+AFA*	*Note 1:* *"When either a duty cycle, LBT or equivalent dependent / adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h1.7*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	869.7 - 870 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*<= 5 mW e.r.p.*	
	Duty cycle		*Voice applications allowed with advanced mitigation techniques.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Audio and video applications are excluded.*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.56a*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 31 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	869.7 - 870 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<=25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*1% or see comment*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.* *Alternatively a duty cycle 1 % may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Analogue audio applications other than voice are excluded.*		*Analogue video applications are excluded.*
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220*		*Band nr.56b*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 69 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*870 - 876 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for tracking, tracing, data acquisition and TTT applications.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*≤ 200 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1% or see comment*	*For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h2*		
Remarks			
Notification number	*2014/450/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*870 - 875.8 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for tracking, tracing, data acquisition and TTT applications.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*≤ 600 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 1% or see comment*	*For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h2.1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*915 - 921 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for radio microphone applications and RFID applications*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*≤ 200 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1% or see comment*	*For ER-GSM protection (918-921 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h3*		
Remarks			
Notification number	*2014/450/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*915.2 - 920.8 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for radio microphone applications and RFID applications*
Channel / modulation	**Channel spacing**		*For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz a channel bandwidth of 400 kHz applies*
	Designation of emission		
	Modulation / Occupied bandwidth	*≤ 600 kHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		*For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz a radiated power of 100 mW e.r.p. applies.*
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 1% or see comment*	*For ER-GSM protection (918-920.8 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s.* *(RFID tags on 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz have 100% duty cycle)*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 1h3.1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*2400 - 2483.5 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 1i*		*Band nr.57a*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 21 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*5725 - 5875 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 1j*		*Band nr.61*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 43 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*24000 - 24250 MHz*		*24.15-24.25 GHz: Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		*The frequency band is also used for inductive applications*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 1m*		*Band nr.70a (24.15-24.25 GHz)*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 27 (2000/299/EC) (24.15-24.25)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*61000 - 61500 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 305 550* *ERC REC 70-03 Annex 1n2*		*Band nr.76*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 71 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*57000 - 64000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Max. transmitter output power of 10mW, and a power density limited to 13 dBm/MHz e.i.r.p. applies*
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 305 550* *ERC REC 70-03 Annex 1n1*		*Band no. 74a*
Remarks			
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to Sub-class 126 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*122000 - 123000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 305 550*		*Band nr.80*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Subclass 107 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	*244000 - 246000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Non-specific SRDs*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 305 550* *ERC REC 70-03 Annex 1p*		*Band nr.81*
Remarks	*This band is also defined as ISM band.*		
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Sub-class 62 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	*0.4569 - 0.4571 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		*Emergency detection of buried victims and valuable items. No app. in Luxembourg*
	Tracking, tracing and data acquisition		
	Emergency detection		
Channel / modulation	**Channel spacing**	*Not applicable*	*Center frequency is 457 kHz*
	Designation of emission		
	Modulation / Occupied bandwidth	*Continuous wave (CW)* *No modulation*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*7 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements	*Application of Article 3.3(e), ensuring access to emergency services.*		
Freq. planning assumption			
Planned changes			
Reference	*Commission Decision 2013/752/EU* *EN 300 718* *ERC REC 70-03 Annex 2a*		*Band no. 18*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 49 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, tracing and data acquisition

Parameter	Description		Comment
Frequency band	*169.4 - 169.475 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Tracking, tracing and data acquisition		
	Meter reading		
Channel / modulation	**Channel spacing**	*Max 50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 10%*	*Duty cycle controls (hardware or software) related to the duty cycle requirements shall not be accessible to the user. The duty cycle shall not be capable of being disabled or altered and shall be implemented as an automatic feature in the equipment.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC (05)02* *EN 300 220* *ERC REC 70-03 Annex 2b*		*Band no. 37b*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 123 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	*870 - 875.6 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Tracking, tracing and data acquisition*		*The frequency band is also used for non-specific SRDs and TTT applications.*
Channel / modulation	**Channel spacing**	*<= 200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 2.5% + APC required*	*≤ 2.5% duty cycle and APC required.* *For ER-GSM protection (873-875.6MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on time of 5ms/1s.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ERC REC 70-03 Annex 2c*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	*2483.5 - 2500 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Tracking, tracing and data acquisition* *MBANS*		*MBANs used indoor only within healthcare facilities.* *The frequency band is also used for active medical implants.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 3 MHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*1mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 10 %*	*Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and ≤ 10% duty cycle.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 203* *ERC REC 70-03 Annex 2d1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	*2483.5 - 2500 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Tracking, tracing and data acquisition* *MBANS*		*MBANs used indoor only within healthcare facilities.* *The frequency band is also used for active medical implants.*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*<= 3 MHz*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 2 %*	*Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and ≤ 2% duty cycle.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 203* *ERC REC 70-03 Annex 2d2*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
	5725 - 5875 MHz		
	Mobile *Land Mobile*		
	Short Range Devices *Tracking, tracing and data acquisition* *WIA*		*Wireless Industrial Applications*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	*>= 1 MHz and <= 20 MHz*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*<= 400mW eirp*	
	Duty cycle		*APC required* *Adequate spectrum sharing mechanisms (e.g. DFS and DAA) shall be implemented.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 258* *ERC REC 70-03 Annex 2e*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	*2400 - 2483.5 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Wideband data transmission systems* *Radio LANs*		*RLAN access, inter-device communication, control of model airplanes, microphones, etc.)*
Channel / modulation	**Channel spacing**	*No spacing*	*The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*100 mW/100 kHz e.i.r.p. density applies when frequency hopping modulation is used, 10 mW/MHz e.i.r.p. density applies when other types of modulation are used*
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 328* *ERC REC 70-03 Annex 3a*		*Band nr.57c*
Remarks	*Harmonised radio spectrum for use by short-range devices.*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 22 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	*5150 - 5350 MHz*		*Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2005/513/EC as amended)*
Radio Service	*Mobile*		*Connections between access points in the frequency band of 5 GHz possible.*
Application	*Short Range Devices* *Wideband data transmission systems*		
Channel / modulation	**Channel spacing**	*No spacing*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum mean e.i.r.p. density shall be limited to 10mW/MHz in any 1 MHz band.*
	Antenna Gain		
	Radiated power	*200 mW Max mean e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	*5250 - 5350 MH : Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems (radars).*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Restricted to indoor use.*		
Planned changes			
Reference	*Commission Decision 2005/513/EC as amended* *EN 301 893* *ECC/DEC/(04)08*		
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H01 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
	5470 - 5725 MHz		*Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2007/90/EC)*
	Mobile		*Connections between access points in the frequency band of 5 GHz possible.*
	Short Range Devices *Wideband data transmission systems*		
	Channel spacing		*The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band.*
	Antenna Gain		
	Radiated power	*1 W Max mean e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	*Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems (radars).*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Indoor as well as outdoor use allowed.*		
Planned changes			
Reference	*Commission Decision 2007/90/EC* *EN 301 893* *ECC/DEC/(04)08*		
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H01 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	*57000 - 66000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Wideband data transmission systems*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum mean e.i.r.p. density is limited to 13 dBm/MHz.*
	Antenna Gain		
	Radiated power	*40 dBm mean e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Fixed outdoor installations are excluded*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 567* *ERC REC 70-03 Annex 3b*		*Band nr.75*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		*Refer to Sub-class H03 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
	27.09 - 27.1 MHz		*Center fequency : 27095 kHz*
	Mobile		*Balise tele-powering and down-link (train to ground) systems including Eurobalise and activation of the Loop / Euroloop*
	Short Range Devices *Railway applications* *Eurobalise*		*Tele-powering and Down-link signal for Balise / Eurobalise. May also be optionnally used for the activation of the Loop / Euroloop.*
	Channel spacing	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 608* *ERC REC 70-03 Annex 4c*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	*0.984 - 7.484 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		*Balise up-link (ground to train) systems including Eurobalise*
Application	*Short Range Devices* *Railway applications* *Eurobalise*		*Transmitting only on receipt of a Balise / Eurobalise tele-powering signal from a train.*
Channel / modulation	**Channel spacing**	*No spacing*	*Center frequency : 4232 kHz*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*9 dBuA/m @ 10 m*	
Channel access and occupation rules	**Duty cycle**	*<=1%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 608* *ERC REC 70-03 Annex 4a*		*Band no. 19*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 109 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	*7.3 - 23 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile* *Loop up-link (ground to train) systems including Euroloop*		
Application	*Short Range Devices* *Railway applications* *Euroloop*		
Channel / modulation	**Channel spacing**	*No spacing*	*Center frequency: 13.547 MHz*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Maximum field strength specified in a bandwidth of 10 kHz, spatially averaged over any 200m length of the loop. Transmitting only in presence of trains. Spread Spectrum Signal, Code Length: 472 chips.*
	Antenna Gain		
	Radiated power	*-7 dBuA/m @ 10 m*	
Channel access and occupation rules	**Duty cycle**	*No Restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 609* *ERC REC 70-03 Annex 4b*		*Band no. 23*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 110 (2000/299/EC)* *(Duty cycle <=1%)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	*76000 - 77000 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Railway applications*		*Obstruction / Vehicle detection via radar sensor at railway level crossings.* *Frequency band is also used for RTTT applications.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*50 dBm average power or 23.5 dBm average power for pulse radar.*
	Antenna Gain		
	Radiated power	*55 dBm peak e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No Restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 091* *ERC REC 70-03 Annex 4d*		
Remarks			
Notification number	*2013/32/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	*870 - 875.8 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *TTT*		*This frequency band is also used for non-specific SRDs and Tracking, Tracing and Data Acquisition systems.*
Channel / modulation	**Channel spacing**	*<= 500 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*500 mW restricted to vehicle-to-vehicle applications.* *100 mW is restricted to in-vehicle applications.* *Adaptive Power Control (APC) is required.* *The APC is able to reduce a link's transmit power from its maximum to ≤ 5 mW*
	Antenna Gain		
	Radiated power	*500 mW e.r.p.* *100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 0.1 %*	*For ER-GSM protection (873-875.8MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 5a*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	5795 - 5805 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU) for 2 W e.i.r.p.*
	Mobile		
	Short Range Devices *TTT*		*Intended for road to vehicle systems, particularly (but not exclusively) road toll systems.*
	Channel spacing		*Recommended for 5 MHz channel spacing systems with the frequencies: 5797.5 MHz and 5802.5 MHz.* *For 10 MHz channel spacing system 5800 MHz.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The use of 8 W e.i.r.p. allows for 1 Mbit/s.* *2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink and for low data rates (31 kbit/s).*
	Antenna Gain		
	Radiated power	*2 W e.i.r.p.* *8 W e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing* *License may be required for 8 W systems.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EC Directive 2004/52/EC, EC Deision 2013/752/EU* *EN 300 674* *ERC REC 70-03 Annex 5b1*		*Band no. 62* *Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 2*		*Refer to Sub-class H05 (2000/299/EC) (2W eirp)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	5805 - 5815 MHz		
	Mobile		
	Short Range Devices		
	TTT		
	Channel spacing		*Recommended for 5 MHz channel spacing systems with the frequencies: 5807.5 MHz and 5812.5 MHz.* *For 10 MHz channel spacing system 5810 MHz.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The use of 8 W e.i.r.p. allows for 1 Mbit/s.* *2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink and for low data rates (31 kbit/s).*
	Antenna Gain		
	Radiated power	*2 W e.i.r.p.* *8 W e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licence required.*		*5 805 - 5 815 MHz on a national basis for multi-lane road junctions, particularly, but not exclusively road toll systems.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EC Directive 2004/52/EC* *EN 300 674* *ERC REC 70-03 Annex 5b2*		*Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 108 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	5725 - 5875 MHz		
	Mobile		
	Short Range Devices		
	TTT		
	Channel spacing	*500 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*-14 dBm e.i.r.p.*	
	Duty cycle		
	Access protocol		*EN 12253*
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EC Directive 2004/52/EC* *EN 300 674*		*Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)*
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 1*		*Refer to Sub-class 108 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	63000 - 64000 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		*Vehicle to vehicle, vehicle to infrastructure, infrastructur to vehicle*
	TTT		
	Channel spacing	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Spectrum Access and mitigation requirement to be determined.*
	Antenna Gain		
	Radiated power	*40 dBm e.i.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 686*		*Band no.77*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 1*		*Refer to Subclass 105 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	*76000 - 77000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	TTT		
	Vehicle and infrastructure radar		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*55 dBm peak e.i.r.p.;50 dBm mean;23.5 dBm mean for pulse radar*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 301 091* *ERC REC 70-03 Annex 5f1, ECC DEC (02)01*		*Band no. 79*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to subclass 50*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	*76000 - 77000 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Short Range Devices* *TTT*		*For obstacle detection radars for rotorcraft use.*
Channel / modulation	**Channel spacing**	*See ECC Decision*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*See ECC Decision*	
Channel access and occupation rules	**Duty cycle**	*See ECC Decision*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 091* *ERC REC 70-03 Annex 5f2, ECC DEC (16)01*		
Remarks			
Notification number			
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	21650 - 26650 MHz		*Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)*
	Mobile		
	Short Range Devices *TTT* *SRR*		*New SRR equipment may only be placed onto the market until 01 July 2013.*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC decision.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2011/485/EU* *ERC REC 70-03 Annex c1, ECC DEC (04)10* *EN 302 288*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 52 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24250 - 26650 MHz		*Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)*
	Mobile		
	Short Range Devices *TTT*		*SRR equipment may only be placed onto the market until 01 July 2018. This date is extended by 4 years for SRR mounted on motor vehicles, with a conformity compliance before 1 January 2018.*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC decision.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2011/485/EU* *ERC REC 70-03 Annex 1c2, ECC DEC (04)10* *EN 302 288*		
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 1*		*Refer to Sub-class 52 + 111 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	77000 - 81000 MHz		*Harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment in the Community. (2004/545/EU)*
	Mobile		
	Short Range Devices		
	TTT		
	SRR		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC decision.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CE Decision 2004/545/EU* *EN 302 264* *ERC REC 70-03 Annex 5g, ECC DEC (04)03*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 53 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24050 - 24075 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		*For vehicle radars*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*100 mW e.i.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CE Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5d1*		*Band no. 66*
Remarks			
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Subclass 101 (Commission Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24075 - 24150 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*a) 0.1mW e.i.r.p.* *b) 100mW e.i.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		*See detailed requirements for Spectrum access and mitigation requirement in related ERC Recommendation.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CE Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5d2,3,4*		*Band no. 69a + 69b*
Remarks			
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Subclass 102 (Decision 2000/299/CE) (0.1mW eirp)* *Refer to Subclass 103 (Decision 2000/299/CE) (100mW eirp)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24150 - 24250 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		*For vehicle radars*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*100mW e.i.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CE Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5d5*		*Band no. 70b*
Remarks			
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Subclass 104 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24250 - 24495 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		*For automotive radars*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*-11 dBm e.i.r.p.*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*<= 0.25%/s/25 MHz*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5e1*		*Band no. 71*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24495 - 24500 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		*For automotive radars*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*-8 dBm e.i.r.p.*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*<= 1.5%/s/5 MHz*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5e3*		*Band no. 73*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 1*		*Refer to Subclass 113 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24250 - 24500 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	TTT		*For automotive radars*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*a) 20 dBm eirp* *b) 16 dBm eirp*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*a) <= 5.6%/s/25 MHz* *b) <= 2.3%/s/25 MHz*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 858* *ERC REC 70-03 Annex 5e2*		*Band no. 72*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 1*		*Refer to Subclass 112 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*2400 - 2483.5 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 6c, ERC DEC (01)08*		*Band no.57b*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 26 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*9200 - 9500 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440* *ERC REC 70-03 Annex 6h*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*9500 - 9975 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440* *ERC REC 70-03 Annex 6i*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*10.5 - 10.6 GHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.* *Power Limited to 25 mW e.i.r.p. in Luxembourg.*		*To avoid interferences with the fixed service (ERC Report 47)*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*13400 - 14000 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440* *ERC REC 70-03 Annex 6k*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*24050 - 24250 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications*		*The frequency band 24.0–24.25 GHz is identified with the same emission parameters in Annex 1 band j of the ERC REC 70-03.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440* *ERC REC 70-03 Annex 6m*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*4500 - 7000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications* *TLPR*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The power limit is the radiated emission outside an enclosed tank structure.* *The maximum emission inside an enclosed tank structure is 24 dBm e.i.r.p.*
	Antenna Gain		
	Radiated power	*-41.3 dBm/MHz e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 372* *ERC REC 70-03 Annex 6f1*		*Band no.60*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 89 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*8500 - 10600 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radiodetermination applications		
	TLPR		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The power limit is the radiated emission outside an enclosed tank structure.* *The maximum emission inside an enclosed tank structure is 30 dBm e.i.r.p.* *For the frequency range 10.6 - 10.7 GHz, the radiated unwanted emissions outside the tank enclosure shall be less than -60 dBm/MHz e.i.r.p.*
	Antenna Gain		
	Radiated power	*-41.3 dBm/MHz e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 372* *ERC REC 70-03 Annex 6f2*		*Band no.64*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 90 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*24050 - 27000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radiodetermination applications* *TLPR*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The power limit is the radiated emission outside an enclosed tank structure.* *The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p*
	Antenna Gain		
	Radiated power	*-41.3 dBm/MHz e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 372* *ERC REC 70-03 Annex 6f3*		*Band no.68*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 91 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*57000 - 64000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radiodetermination applications		
	TLPR		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The power limit is the radiated emission outside an enclosed tank structure.* *The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p*
	Antenna Gain		
	Radiated power	*-41.3 dBm/MHz e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 372* *ERC REC 70-03 Annex 6f4*		*Band no.74b*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 92 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*75000 - 85000 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radiodetermination applications		
	TLPR		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The power limit is the radiated emission outside an enclosed tank structure.* *The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p.*
	Antenna Gain		
	Radiated power	*-41.3 dBm/MHz e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 372* *ERC REC 70-03 Annex 6f5*		*Band no.78b*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 93 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	6000 - 8500 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Radiodetermination applications		
	LPR		
	Channel spacing		*See detail requirement in related ECC decision*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*7 dBm/50 MHz peak eirp ; -33 dBm/MHz mean eirp*	*See detail requirement in related ECC decision.*
	Antenna Gain		
	Radiated power		
	Duty cycle		*See detail requirement in related ECC decision*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 729* *ERC REC 70-03 Annex 6g1, ECC/DEC/(11)02*		*Band no. 63*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H06 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	24050 - 26500 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Radiodetermination applications		
	LPR		
	Channel spacing		*See detail requirement in related ECC decision*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*26 dBm/50 MHz peak eirp; -14 dBm/MHz mean eirp*	*See detail requirement in related ECC decision*
	Antenna Gain		
	Radiated power		
	Duty cycle		*See detail requirement in related ECC decision*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 729* *ERC REC 70-03 Annex 6g2, ECC/DEC/(11)02*		*Band no. 67*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H07 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	57000 - 64000 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Radiodetermination applications		
	LPR		
	Channel spacing		*See detail requirement in related ECC decision*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*35 dBm/50 MHz peak eirp; -2 dBm/MHz mean eirp*	*See detail requirement in related ECC decision*
	Antenna Gain		
	Radiated power		
	Duty cycle		*See detail requirement in related ECC decision*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 729* *ERC REC 70-03 Annex 6g3, ECC/DEC/(11)02*		*Band no. 74c*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 1*		*Refer to Sub-class 127 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	75000 - 85000 MHz		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
	Mobile		
	Short Range Devices		
	Radiodetermination applications		
	LPR		
	Channel spacing		*See detail requirement in related ECC decision*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*34 dBm/50 MHz peak eirp; -3 dBm/MHz mean eirp*	*See detail requirement in related ECC decision*
	Antenna Gain		
	Radiated power		
	Duty cycle		*See detail requirement in related ECC decision*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 729* *ERC REC 70-03 Annex 6g4, ECC/DEC/(11)02*		*Band no. 78a*
Remarks			
Notification number	*2012/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H08 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	*17100 - 17300 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radiodetermination applications		
	GBSAR		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Specific requirements for the radar antenna pattern and for the implementation of DAA technique apply as described in EN 300440.*
	Antenna Gain		
	Radiated power	*+26 dBm e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*Detect and Avoid (DAA)*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 6l*		*Band no.65*
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 1*		*Refer to Sub-class 88 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	30 - 12400 MHz		
	Mobile		
	Short Range Devices		
	UWB applications		
	GPR/WPR		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC decision*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 066* *ERC REC 70-03 Annex 6q, ECC/DEC/(06)08*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	3100 - 4800 MHz		
	Mobile *Land Mobile*		
	Short Range Devices *Tracking, tracing and data acquisition* *LT2*		*LT2*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC recommendation*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*The use of LT2 devices is subjet to declaration*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 065* *ERC REC 70-03 Annex 6s1, ECC/REC/(11)09*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
	3100 - 4800 MHz		
	Mobile *Land Mobile*		
	Short Range Devices *Tracking, tracing and data acquisition* *LAES*		*LAES*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Detailed requirements in related ECC recommendation*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*The use of LAES devices is subjet to declaration*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 065* *ERC REC 70-03 Annex 6s2, ECC/REC/(11)10*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	*868.6 - 868.7 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Alarms*		*Low duty cycle/high reliability devices*
Channel / modulation	**Channel spacing**	*25 kHz*	*The whole frequency band may also be used as one single channel for high speed data transmissions.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 1 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 7a*		*Band nr.49*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 32 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	*869.25 - 869.3 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Alarms*		*Low duty cycle/high reliability devices*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*< 0.1 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 7c*		*Band nr.52*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 33 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	*869.3 - 869.4 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Alarms*		*Low duty cycle/high reliability devices*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<=1 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 7d*		*Band nr.53*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 72 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	*869.65 - 869.7 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Alarms*		*Low duty cycle/high reliability devices*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 7e*		*Band nr.55*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 34 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	*869.2 - 869.25 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Alarms* *Social alarms*		*Low duty cycle/high reliability devices.* *Social alarm devices are used to assist elderly or disabled people living at home when they are in distress*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<0.1 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 7b*		*Band nr.51*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 35 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*26.995 - 26.995 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		*This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.*
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 8a1*		*Band no.29*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 94 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*27.045 - 27.045 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		*This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.*
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 8a2*		*Band no.30*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 95 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*27.095 - 27.095 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		*This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.*
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 8a3*		*Band no.31*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 96 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*27.145 - 27.145 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		*This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.*
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 8a4*		*Band no.32*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 97 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*27.195 - 27.195 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		*This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.*
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 220* *ERC REC 70-03 Annex 8a5*		*Band no.33*
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 1*		*Refer to Sub-class 98 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*40.665 - 40.665 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 8c1, ERC DEC (01)12*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*40.675 - 40.675 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 8c2, ERC DEC (01)12*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*40.685 - 40.685 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 8c3, ERC DEC (01)12*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	*40.695 - 40.695 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 8c4, ERC DEC (01)12*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Model Control / Flying models

Parameter	Description		Comment
Frequency band	*34.995 - 35.225 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Model control* *Flying model control*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*100 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220* *ERC REC 70-03 Annex 8b, ERC DEC (01)11*		
Remarks			
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.009 - 0.09 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*72 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9a1*		*Band nr. 1,3,4,5,6,7,8*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 36,37,39,40a.b.c.d 2000/299/EC*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.09 - 0.119 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9a2*		*Band nr.9*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 40e (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.119 - 0.135 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers ofother radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*66 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9a3*		*Band nr. 10,11,12*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 41,42a,42b (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.135 - 0.14 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9b*		*Band nr.13*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Subclass 106 (Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.14 - 0.1485 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*37.7 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9c*		*Band nr.14*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 73 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*6.765 - 6.795 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9f*		*Band nr.22a*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 44 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*7.4 - 8.8 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*9 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9g*		*Band no.24*
Remarks	*Protection of nearby receivers of other radio services*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 45 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.553 - 13.567 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ERC DEC (01)14*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330, EN 302 291* *ERC REC 70-03 Annex 9j*		*Band no.27a*
Remarks	*Protection of nearby receivers of other radio services*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 116 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.41 - 13.553 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*9 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.4*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.567 - 13.71 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*9 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.5*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.11 - 13.41 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.3*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.71 - 14.01 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.6*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*12.66 - 13.11 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-10m dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.2*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*14.01 - 14.46 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-10m dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.7*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*11.81 - 12.66 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-16m dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*14.46 - 15.31 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-16m dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j1.8*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.553 - 13.567 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID AND EAS ONLY !* *Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*60 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330, EN 302 291* *ERC REC 70-03 Annex 9j2*		*Band no. 27b*
Remarks	*Protection of nearby receivers of other radio services*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 79 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.46 - 13.553 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*27 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.4*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.567 - 13.66 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*27 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.5*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.36 - 13.46 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Linear transition from 27 to -3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.3*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.66 - 13.76 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Linear transition from 27 to -3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.6*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.11 - 13.36 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.2*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*13.76 - 14.01 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-3.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.7*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*12.66 - 13.11 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*14.01 - 14.46 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 330* *ERC REC 70-03 Annex 9j3.8*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*26.957 - 27.283 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*42 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9i*		*Band no.28a*
Remarks	*Protection of nearby receivers of other radio services*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 115 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*10.2 - 11 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*9dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9h*		*Band no.25*
Remarks	*Protection of nearby receivers of other radio services*		
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 78 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*3.155 - 3.4 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*13.5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*In case of external antennas only loop coil antennas may be employed*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9e*		*Band no.20*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 76 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.1485 - 5 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-15 dBµA/m in a bandwidth of 10 kHz).*
	Antenna Gain		
	Radiated power	*-15 dBµA/m @ 10 m*	
Channel access and occupation rules	**Duty cycle**	*No Restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*In case of external antennas only loop coil antennas may be employed*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9k1*		*Band nr.15*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 74 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*5 - 30 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-20 dBµA/m in a bandwidth of 10 kHz).*
	Antenna Gain		
	Radiated power	*-20 dBµA/m @ 10 m*	
Channel access and occupation rules	**Duty cycle**	*No Restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*In case of external antennas only loop coil antennas may be employed*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9k2*		*Band no.21*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 77 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	*0.4 - 0.6 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Inductive applications*		*For RFID only !*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The maximum field strength is specified in a bandwidth of 10 kHz.* *The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz measured at the center frequency whilst keeping the density limit (-8 dBµA/m in a bandwidth of 10 kHz).* *These systems should operate with a minimum operating bandwidth of 30 kHz.*
	Antenna Gain		
	Radiated power	*-8 dBµA/m @ 10 m*	
Channel access and occupation rules	**Duty cycle**	*No Restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*In case of external antennas only loop coil antennas may be employed*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 9d*		*Band nr.17*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 75 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*29.7 - 47 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		*Radio microphones*
Channel / modulation	**Channel spacing**	*50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Frequency band of 34.995 - 35.225 MHz shall not be used. (Only for flying models)*		
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10a*		
Remarks			
Notification number	*2005/347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*173.965 - 216 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		
Channel / modulation	**Channel spacing**	*50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 50kHz*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10d, ECC Report 230*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*863 - 865 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD* *Radio microphones*		*Radio microphones including wireless audio and multimedia streaming devices*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 301 357, EN 300 422* *ERC REC 70-03 Annex 10g*		*Band no. 46b (wireless audio and multimedia streaming devices)*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 48 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*916.1 - 916.5 MHz*		*Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		*Indoor Digital Assistive Listening Device Systems.* *The frequency band is also used for non-specific SRDs and RFID applications*
Channel / modulation	**Channel spacing**	*<= 400 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 25%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10h1*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*917.3 - 917.7 MHz*		*Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		*Indoor Digital Assistive Listening Device Systems.* *The frequency band is also used for non-specific SRDs and RFID applications*
Channel / modulation	**Channel spacing**	*<= 400 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 25%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10h2*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*918.5 - 918.9 MHz*		*Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		*Indoor Digital Assistive Listening Device Systems.* *The frequency band is also used for non-specific SRDs and RFID applications*
Channel / modulation	**Channel spacing**	*<= 400 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 25%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10h3*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*919.7 - 920.1 MHz*		*Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.*
Radio Service	*Mobile*		
Application	*Short Range Devices*		*Indoor Digital Assistive Listening Device Systems.* *The frequency band is also used for non-specific SRDs and RFID applications*
	Radio microphones and ALD		
Channel / modulation	**Channel spacing**	*<= 400 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 25%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10h4*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
	174 - 216 MHz		*On a tuning range basis*
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*50 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10e*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*470 - 786 MHz*		*On a tuning range basis*
Radio Service	*Mobile*		*THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!*
Application	*Short Range Devices* *Radio microphones and ALD* *Radio microphones*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*50 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10f1*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*786 - 789 MHz*		*On a tuning range basis*
Radio Service	*Mobile*		*THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!*
Application	*Short Range Devices* *Radio microphones and ALD* *Radio microphones*		
Channel / modulation	**Channel spacing**	*No spacing*	*See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*12mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10f2*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
	823 - 826 MHz		*Harmonised radio spectrum for use by PMSE (2014/641/EU)*
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*100 mW restricted to body worn microphones. See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.*
	Antenna Gain		
	Radiated power	*20mW e.i.r.p.* *100mW e.i.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2014/641/EU* *EN 300 422* *ERC REC 70-03 Annex 10f3*		*Block Edge Masks are defined in Decision 2014/641/EU*
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
	826 - 832 MHz		*Harmonised radio spectrum for use by PMSE (2014/641/EU)*
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing	*200 kHz*	*See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*100mW e.i.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2014/641/EU* *EN 300 422* *ERC REC 70-03 Annex 10f4*		*Block Edge Masks are defined in Decision 2014/641/EU*
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*1785 - 1795 MHz*		*Harmonised radio spectrum for use by PMSE (2014/641/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radio microphones and ALD		
	Radio microphones		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*50 mW e.i.r.p. restricted to body worn microphones.*
	Antenna Gain		
	Radiated power	*20 mW e.i.r.p.* *50 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2014/641/EU* *EN 300 422* *ERC REC 70-03 Annex 10j1*		*Block Edge Masks are defined in Decision 2014/641/EU*
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*1795 - 1800 MHz*		*Harmonised radio spectrum for use by PMSE (2014/641/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		*The frequency band is also used for wireless audio applications*
	Radio microphones and ALD		
	Radio microphones		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*50 mW e.i.r.p. restricted to body worn microphones.*
	Antenna Gain		
	Radiated power	*20 mW e.i.r.p.* *50 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2014/641/EU* *EN 300 422* *ERC REC 70-03 Annex 10j2*		*Block Edge Masks are defined in Decision 2014/641/EU*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*1800 - 1804.8 MHz*		*Harmonised radio spectrum for use by PMSE (2014/641/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radio microphones and ALD		
	Radio microphones		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		*50 mW e.i.r.p. restricted to body worn microphones.*
	Radiated power	*20 mW e.i.r.p.* *50 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2014/641/EU* *EN 300 422* *ERC REC 70-03 Annex 10j3*		*Block Edge Masks are defined in Decision 2014/641/EU*
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*169.4 - 169.475 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radio microphones and ALD		
	Public hearing aids		
Channel / modulation	**Channel spacing**	*Max 50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC (05)02; ERC REC 70-03 Annex 10c2* *EN 300 422*		*Band no. 37a*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 68 (2000/299/EC) (10mW erp)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*169.4875 - 169.5875 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Radio microphones and ALD		
	Public hearing aids		
Channel / modulation	**Channel spacing**	*Max 50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*500 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *ECC/DEC (05)02; ERC REC 70-03 Annex 10c4* *EN 300 422*		*Band no. 39a*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 64 (2000/299/EC) (10mW erp)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*169.6 - 174 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD* *Aids for hearing impaired*		
Channel / modulation	**Channel spacing**	*Max 50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10b*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*1492 - 1518 MHz*		
Radio Service	*Mobile*		*THE FREQUENCY BAND OF 1492-1518 MHz IS SUBJECT TO BE HARMONISED FOR IMT SERVICES IN FUTURE AND FOR THIS REASON NO MORE AVAILABLE FOR RADIO MICROPHONES.*
Application	*Short Range Devices* *Radio microphones and ALD* *Radio microphones*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*50 mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Restricted to indoor use*		
Planned changes			
Reference	*EN 300 422* *ERC REC 70-03 Annex 10i*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	*87.5 - 108 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile* *Land Mobile*		
Application	*Short Range Devices* *Radio microphones and ALD*		*Low power FM transmitters*
Channel / modulation	**Channel spacing**	*max. 200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*50 nW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*up to 100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 301 357* *ERC REC 70-03 Annex 10a1*		*Band no.36*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 86 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	*2446 - 2454 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *RFID*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*<= 500mW e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No requirement*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 300 440* *ERC REC 70-03 Annex 11c1*		*Band no. 58*
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Subclass 100(Commission Decision 2000/299/CE)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	*2446 - 2454 MHz*		
Radio Service	*Mobile*		
Application	*Short Range Devices* *RFID*		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*> 500mW - 4W e.i.r.p*	
Channel access and occupation rules	**Duty cycle**	*<= 15%*	*Power levels above 500 mW are restricted to use inside the boundaries of a building and the duty cycle of all transmissions shall in this case be <= 15% in any 200ms period (30ms on /170ms off)*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 440* *ERC REC 70-03 Annex 11c2*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
	865 - 865.6 MHz		*Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)*
	Mobile		
	Short Range Devices		
	RFID		
	Channel spacing	*200 kHz*	*Center frequencies : 864.9 + (0.2 * channel number)* *Channel numbers : 1-3*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*100 mW e.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		*Frequency hopping or other spread spectrum techniques shall not be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2006/804/EC* *EN 302 208* *ERC REC 70-03 Annex 11a1*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 56 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
	865.6 - 867.6 MHz		*Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)*
	Mobile		
	Short Range Devices		
	RFID		
	Channel spacing	*200 kHz*	*Center frequencies : 864.9 + (0.2 * channel number)* *Channel numbers : 4-13*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*2 W e.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		*Frequency hopping or other spread spectrum techniques shall not be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2006/804/EC* *EN 302 208* *ERC REC 70-03 Annex 11a2*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 56 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
	867.6 - 868 MHz		*Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)*
	Mobile		
	Short Range Devices		
	RFID		
	Channel spacing	*200 kHz*	*Center frequencies : 864.9 + (0.2 * channel number)* *Channel numbers : 4-15*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*500 mW e.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		*Frequency hopping or other spread spectrum techniques shall not be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2006/804/EC* *EN 302 208* *ERC REC 70-03 Annex 11a3*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to Sub-class 56 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
	915 - 921 MHz		
	Mobile		
	Short Range Devices *RFID*		*The frequency band is also used for non-specific SRDs and radio microphones.* *Interrogators only allowed for following channels: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz*
	Channel spacing	*<= 400 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*4 W e.r.p.*	*Operation only when necessary to perform the intended operation, i.e. when RFID tags are expected to be present.*
	Antenna Gain		
	Radiated power		
	Duty cycle		*For ER-GSM protection (918-921 MHz, where applicable), DAA is required.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 208* *ERC REC 70-03 Annex 11b*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
	865 - 868 MHz		
	Mobile *Land Mobile*		
	Short Range Devices *RFID*		
	Channel spacing	*200 kHz*	*Four autorised channels: 865.7, 866.3, 866.9 and 867.5 MHz*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*2W e.r.p.*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 208* *ERC REC 70-03 Annex 11a*		
Remarks			
Notification number			
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*402 - 405 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Active medical implants		
	ULP-AMI		
Channel / modulation	**Channel spacing**	*25 kHz*	*Individual transmitters may combine adjacent channels for increased bandwidth up to 300 kHz.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Other techniques to access spectrum or mitigate interference, including bandwidths greater than 300 kHz, can be used provided they result at least in an equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC to ensure compatible operation with the other users and in particular with meteorological radiosondes.*
	Antenna Gain		
	Radiated power	*25 uW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 301 839*		*Band no.42* *Council Directive 90/385/EEC*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 47 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*401 - 402 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Active medical implants* *ULP-AMI*		
Channel / modulation	**Channel spacing**	*25 kHz*	*Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.* *Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band concurrently.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 uW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction for LBT, otherwise <= 0.1%*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 537*		*Band no.41*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 83 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*405 - 406 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Active medical implants* *ULP-AMI*		
Channel / modulation	**Channel spacing**	*25 kHz*	*Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.* *Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band concurrently.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*25 uW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*No restriction for LBT, otherwise <= 0.1%*	*Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 537*		*Band no.43*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 84 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*0.009 - 0.315 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices* *Active medical implants* *ULP-AMI*		*This application is for ultra low power active medical implants systems using inductive loop techniques for telemetry purposes.*
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*30 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*<= 10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 195* *ERC REC 70-03 Annex 12a*		*Band no.2*
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 1*		*Refer to Sub-class 81 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*0.315 - 0.6 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Active medical implants		
	ULP-AID		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-5 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 536* *ERC REC 70-03 Annex 12b*		*Band no.16*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 85 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*30 - 37.5 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Active medical implants		
	ULP-MMI		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*1 mW e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*<= 10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2013/752/EU* *EN 302 510* *ERC REC 70-03 Annex 12d*		*Band no.34*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 1*		*Refer to Sub-class 82 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*12.5 - 20 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		
	Active medical implants		
	ULP-AID		
Channel / modulation	**Channel spacing**	*No spacing*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*-7 dBuA/m @ 10m*	
Channel access and occupation rules	**Duty cycle**	*< 10 %*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Llimited to indoor only applications.*		
Planned changes			
Reference	*2013/752/EU* *EN 300 330* *ERC REC 70-03 Annex 12c*		*Band no.26*
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 2*		*Refer to Sub-class H04 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	*2483.5 - 2500 MHz*		*Harmonised radio spectrum for use by short-range devices (2013/752/EU)*
Radio Service	*Mobile*		
Application	*Short Range Devices*		*For Low Power Active Medical Implants and associated peripherals, covered by the applicable harmonised standard.*
	Active medical implants		
	ULP-AMI		
Channel / modulation	**Channel spacing**	*1 MHz*	*Individual transmitters may combine adjacent channels on a dynamic basis for increased bandwidth higher than 1 MHz.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*10 dBm e.i.r.p.*	
Channel access and occupation rules	**Duty cycle**	*LBT+AFA and < 10%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Peripheral units are for indoor use only.*		
Planned changes			
Reference	*Decision 2013/752/EU* *EN 301 559* *ERC REC 70-03 Annex 12e*		*Band no. 59*
Remarks			
Notification number	*2011/268/L*		
Equipment class	*Class 1* *Class 2*		*Refer to Sub-class 117 (2000/299/EC) (no periph. master)* *Refer to Sub-class H09 (2000/299/EC) (periph. master)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting Satellite Service

Broadcasting-satellite receivers

Parameter	Description		Comment
Frequency band	*11700 - 12500 MHz*		
Radio Service	*Broadcasting-Satellite*		
Application	*Broadcasting*		
	Broadcasting (satellite)		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR App 30; ERC DEC (00)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*3700 - 4200 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite network operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite network operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite network operator*	
Direction / Separation	*to be defined by the satellite network operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			*ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.*
Planned changes			
Reference	*EN 301 443; EN 301 447* *CEPT ECC DEC (05)09*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*5925 - 6425 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite network operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite network operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite network operator*	
Direction / Separation	*to be defined by the satellite network operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			*ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.*
Planned changes			
Reference	*EN 301 443, EN 301 447* *ECC DEC (05)09*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*10700 - 11700 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Refer to subclass 12*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR App 30B*		*in the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz*
Planned changes			
Reference	*EN 302 340* *CEPT ECC DEC (05)10*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*12500 - 12750 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Refer to subclass 12*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 340* *CEPT ECC DEC (05)10*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*14000 - 14250 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Refer to subclass 12*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined be the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 340* *CEPT ECC DEC (05)10*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	*14250 - 14500 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *ESV*		*ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined be the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 340* *CEPT ECC DEC (05)10*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*3400 - 3600 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*defined during licencing procedure*	
	Designation of emission	*defined during licencing procedure*	
	Modulation / Occupied bandwidth	*defined during licencing procedure*	
	Reference frequency	*defined during licencing procedure*	
Transmit power / Power density	**Output power**	*defined during licencing procedure*	
	Antenna Gain	*defined during licencing procedure*	
	Radiated power	*defined during licencing procedure*	
Channel access and occupation rules	**Duty cycle**	*defined during licencing procedure*	
	Access protocol	*defined during licencing procedure*	
	Trans. capacity	*defined during licencing procedure*	
Direction / Separation	*defined during licencing procedure*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 443*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*3600 - 4200 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined be the satellite operator*	
	Designation of emission	*to be defined be the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined be the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined be the satellite operator*	
Direction / Separation	*to be defined be the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 443*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*5725 - 6700 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined be the satellite operator*	
	Designation of emission	*to be defined be the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined be the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined be the satellite operator*	
Direction / Separation	*to be defined be the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 443*		*in the range of 5850 - 6700 MHz*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*6700 - 7075 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth) (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR App 30B*		*in the range of 6725 - 7075 MHz*
Planned changes			
Reference	*EN 301 443*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*7900 - 8400 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*10700 - 11700 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR app 30B; ERC DEC (00)08*		*RR App 30B:* *In the range of 10.7 - 10.95 GHz and 11.20 - 11.45 GHz*
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*12500 - 12750 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*12750 - 13250 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR App 30B*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*13750 - 14500 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*17700 - 18100 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ERC DEC (00)07*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*18100 - 18400 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth) (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ERC DEC (00)07*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*18400 - 19700 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ERC DEC (00)07*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*19700 - 20200 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*27500 - 29500 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)01*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*29500 - 30000 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	*37500 - 40500 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption	*ERC DEC (00)02*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
	10700 - 12750 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil) *FSS Earth stations* *HEST*		*For SIT reception.* *For VSAT use in the range of 12.5-12.75 GHz.*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*34 dBW < EIRP ≤ 60 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		*In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.*
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)03*		
Planned changes			
Reference	*EN 391 428; EN 301 459*		
Remarks	*Coupled with 29.5-30 GHz*		*For VSAT use 12.5-12.75 GHz is also coupled with 14-14.25 GHz.*
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
	14000 - 14250 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		*For VSAT transmission.*
	FSS Earth stations		
	HEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*34 dBW < EIRP ≤ 60 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		*In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.*
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)03*		
Planned changes			
Reference	*EN 301 428*		
Remarks	*Coupled with 12.5-12.75 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		*For SUT reception.*
	FSS Earth stations		
	HEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*34 dBW < EIRP ≤ 60 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		*In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.*
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)03*		
Planned changes			
Reference	*EN 301 459*		
Remarks	*Coupled with 29.5-30 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
	29500 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		*For SIT/SUT transmissions.*
	FSS Earth stations		
	HEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*34 dBW < EIRP ≤ 60 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		*In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.*
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)03*		
Planned changes			
Reference	*EN 301 459*		
Remarks	*Coupled with 10.7-12.75 GHz and 19.7-20.2 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
	10700 - 12750 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil) *FSS Earth stations* *LEST*		*For SIT reception.* *For VSAT reception in band of 12.5-12.75 GHz*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*Max. 34 dBW EIRP*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)02*		
Planned changes			
Reference	*EN 301 428; EN 301 459*		
Remarks	*Coupled with 29.5-30 GHz*		*12.5-12.75 GHz also coupled with 14-14.25 GHz.*
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
	14000 - 14250 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		*For VSAT transmission.*
	LEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*Max. 34 dBW EIRP*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)02*		
Planned changes			
Reference	*EN 301 428*		
Remarks	*Coupled with 12.5-12.75 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		*For SUT reception.*
	LEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*Max. 34 dBW EIRP*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)02*		
Planned changes			
Reference	*EN 301 459*		
Remarks	*Coupled with 29.5-30 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
	29500 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		*For SIT/SUT transmission.*
	LEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.*
	Antenna Gain		
	Radiated power	*Max. 34 dBW EIRP*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (06)02*		
Planned changes			
Reference	*EN 301 459*		
Remarks	*Coupled with 10.7-12.75 GHz and 19.7-20.2 GHz*		
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	17300 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil) *FSS Earth stations* *GSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*55-60 dBW*	*The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements	*None*		
Freq. planning assumption			*Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.*
Planned changes			
Reference	*EN 303 978* *ECC DEC (13)01*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	27500 - 27828.5 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil) *FSS Earth stations* *GSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*55-60 dBW*	*The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements	*None*		
Freq. planning assumption			*Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.*
Planned changes			
Reference	*EN 303 978* *ECC DEC (13)01*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	28444.5 - 28948.5 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil) *FSS Earth stations* *GSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*55-60 dBW*	*The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements	*None*		
Freq. planning assumption			*Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.*
Planned changes			
Reference	*EN 303 978* *ECC DEC (13)01*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	29452.5 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil) *FSS Earth stations* *GSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*55-60 dBW*	*The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements	*None*		
Freq. planning assumption			*Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.*
Planned changes			
Reference	*EN 303 978* *ECC Decision (13)01*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
	17300 - 20200 MHz		*17.3 - 19.7 GHz and 19.7 - 20.2 GHz*
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil) *FSS Earth stations* *NGSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Technical and operational requirements according to ECC DEC (15)04*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Additional technical and operational requirements according to ECC DEC (15)04*		
Planned changes			
Reference	*EN 303 979* *ECC DEC (15)04*		
Remarks	*17.3–19.7 GHz / 27.5–27.8285 GHz and 28.4445–28.8365 GHz;* *19.7-20.2 GHz / with 29.5-30.0 GHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
	27500 - 27828.5 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		
	NGSO ESOMPs		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Technical and operational requirements according to ECC DEC (15)04*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Additional technical and operational requirements according to ECC DEC (15)04*		
Planned changes			
Reference	*EN 303 979* *ECC DEC (15)04*		
Remarks	*Coupled with 17.3 – 19.7 GHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
	28444.5 - 28836.5 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil) *FSS Earth stations* *NGSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Technical and operational requirements according to ECC DEC (15)04*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Additional technical and operational requirements according to ECC DEC (15)45*		
Planned changes			
Reference	*EN 303 979* *ECC DEC (15)04*		
Remarks	*Coupled with 17.3 – 19.7 GHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
	29500 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil) *FSS Earth stations* *NGSO ESOMPs*		
	Channel spacing		*Defined by the satellite network operator*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Technical and operational requirements according to ECC DEC (15)04*
	Antenna Gain		
	Radiated power		
	Duty cycle		*Defined by the satellite network operator*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempted from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Additional technical and operational requirements according to ECC DEC (15)04*		
Planned changes			
Reference	*EN 303 979* *ECC DEC (15)04*		
Remarks	*Coupled with 19.7 – 20.2 GHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Feeder links

Parameter	Description		Comment
Frequency band	*17300 - 18100 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *Feeder links*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR App 30A*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

Feeder links

Parameter	Description		Comment
Frequency band	*27500 - 29500 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *Feeder links*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*17300 - 17700 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*19700 - 20200 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*29500 - 30000 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*47500 - 47900 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*48200 - 48540 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Note defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	*49440 - 50200 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (05)08*		
Planned changes			
Reference			
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
	10700 - 12750 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		*For SIT reception.*
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Not defined*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*An individual license is required.*		
Add. essential requirements			
Freq. planning assumption	*Appendix 30B of the Radio Regulations;* *CEPT ERC DEC (00)08*		*Appendix 30B of the Radio Regulations in the range of 10.7-10.95 GHz and 11.2-11.45 GHz.* *CEPT ERC DEC (00)08 in the range of 10.7-12.5 GHz.*
Planned changes			
Reference	*EN 301 360*		
Remarks	*Coupled with 27.5-29.5 GHz.*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
	17700 - 19700 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		*For SUT reception*
	FSS Earth stations		
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Not defined*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*An individual license is required.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ERC DEC (00)07*		
Planned changes			
Reference	*EN 301 360; EN 301 459*		
Remarks	*Coupled with 27.5-29.5 GHz and 29.5-30.0 GHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		*For SUT reception.*
	FSS Earth stations		
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Not defined*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*An individual license is required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 360*		
Remarks	*Coupled with 27.5-29.5 GHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
	27500 - 29500 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		*For SIT/SUT transmission*
	FSS Earth stations		
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*An individual license is required.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (05)01*		
Planned changes			
Reference	*EN 301 360*		
Remarks	*Coupled with 10.7-12.75 GHz; 17.7-20.2 GHz and 21.40-22.00 GHz.*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
	29500 - 30000 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		*For SIT/SUT transmissions*
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		*defined during licensing procedure*
	Radiated power	*Not defined*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*An individual license is required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 459*		
Remarks	*Coupled with 17.70-19.70 GHz and 21.40-22.00 GHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	*10700 - 11700 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *SNG*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 430*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	*14000 - 14500 MHz*		
Radio Service	*Fixed-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *SNG*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 430*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	*12500 - 12750 MHz*		
Radio Service	*Fixed-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *FSS Earth stations* *SNG*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 340*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

VSAT

Parameter	Description		Comment
	10700 - 11700 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		
	VSAT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*Max. 2W*	
	Antenna Gain		
	Radiated power	*Max. EIRP: 50 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*A notification to the NRA is required.*		
Add. essential requirements			
Freq. planning assumption	*Appendix 30B of the Radio Regulations: CEPT ECC DEC (03)04*		*Appendix 30B of the Radio Regulations n the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz*
Planned changes			
Reference	*EN 301 428*		
Remarks	*Coupled with 14.25-14.5 GHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Fixed Satellite Service

VSAT

Parameter	Description		Comment
	14250 - 14500 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		
	VSAT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*Max. 2W*	
	Antenna Gain		
	Radiated power	*Max eirp: 50 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*A notification to the NRA is required.*		
Add. essential requirements			
Freq. planning assumption	*CEPT ECC DEC (03)04*		
Planned changes			
Reference	*EN 301 428*		
Remarks	*Coupled with 10.7-11.7 GHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*137 - 138 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**		*Maximum burst length duration on S-PCS terminal transmission: 500 msec.*
	Designation of emission	*Narrow band Frequency or Phase modulation*	
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Max. Spectrum density of EIRP: 10dBW/4kHz*	
Channel access and occupation rules	**Duty cycle**	*1% in any 15 minutes period from any single channel.*	*Consecutive transmissions from a single earth station on the same frequency shall be separated by at least 15 seconds.*
	Access protocol	*FDMA*	
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ERC DEC (99)05; CEPT ERC DEC (99)06* *EN 301 721*		
Remarks	*Coupled with 148-150.05 MHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*148 - 150.05 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**		
	Designation of emission	*Narrow band Frequency or Phase modulation*	
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Maximum burst length duration on S-PCS terminal transmission: 500 msec.*
	Antenna Gain		
	Radiated power	*Max. Spectrum density of EIRP: 10dBW/4kHz*	
Channel access and occupation rules	**Duty cycle**	*1% in any 15 minutes period from any single channel.*	*Consecutive transmissions from a single earth station on the same frequency shall be separated by at least 15 seconds.*
	Access protocol	*FDMA*	
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ERC DEC (99)05; CEPT ERC DEC (99)06* *EN 301 721*		
Remarks	*Coupled with 137-138 MHz*		
Notification number	*2011/548/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1518 - 1525 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (04)09; CEPT ECC DEC (12)01* *EN 301 444; EN 301 473; EN 301 681*		
Remarks	*Coupled with 1670-1675 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1670 - 1675 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (04)09; CEPT ECC DEC (12)01* *EN 301 444; EN 301 473; EN 301 681*		
Remarks	*Coupled with 1518-1525 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1525 - 1544 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Provide voice and/or data communications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*148 dBpW for angle < 40 degrees ;* *177 - 25 log f dBpW for 40 degress < f < 75 degrees ;* *130 dBpW for angle > 75 degrees;* *angle: between the main beam axis and the direction considered*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01; CEPT ERC DEC (95)01* *EN 301 444, EN 301 681*		
Remarks	*Coupled with 1631.5-1634.5 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 11 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1631.5 - 1634.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Provide voice and/or data communications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*148 dBpW for angle < 40 degrees ;* *177 - 25 log f dBpW for 40 degress < f < 75 degrees ;* *130 dBpW for angle > 75 degrees;* *angle: between the main beam axis and the direction considered*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/DEC/(12)01* *EN 301 444, EN 301 681*		
Remarks	*Coupled with 1525-1544 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 11 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1555 - 1559 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Provide voice and/or data communications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*148 dBpW for angle < 40 degrees ;* *177 - 25 log f dBpW for 40 degress < f < 75 degrees ;* *130 dBpW for angle > 75 degrees;* *angle: between the main beam axis and the direction considered*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/DEC/(12)01* *EN 301 444, EN 301 681*		
Remarks	*Coupled with 1656.5-1660.5 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 11 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1656.5 - 1660.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Provide voice and/or data communications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*148 dBpW for angle < 40 degrees ;* *177 - 25 log f dBpW for 40 degress < f < 75 degrees ;* *130 dBpW for angle > 75 degrees;* *angle: between the main beam axis and the direction considered*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/DEC/(12)01* *EN 301 444, EN 301 681*		
Remarks	*Coupled with 1555-1559 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 11 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1525 - 1544 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Low data rate LMES applications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01; CEPT ERC DEC (95)01* *EN 301 426*		
Remarks	*Coupled with 1626.5-1645.5 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to sub-class 16 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1626.5 - 1645.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Low data rate LMES applications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01* *EN 301 426*		
Remarks	*Coupled with 1525-1544 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to sub-class 16 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1555 - 1559 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Low data rate LMES applications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01* *EN 301 426*		
Remarks	*Coupled with 1656.5-1660.5 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to sub-class 16 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1656.5 - 1660.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Low data rate LMES applications*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (12)01* *EN 301 426*		
Remarks	*Coupled with 1555-1559 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 1*		*Refer to sub-class 16 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1525 - 1544 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01; CEPT ERC DEC (95)01* *EN 301 681*		
Remarks	*Coupled with 1626.5-1645.5 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1626.5 - 1645.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (12)01* *EN 301 681*		
Remarks	*Coupled with 1525-1544 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1545 - 1559 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (12)01* *EN 301 681*		
Remarks	*Coupled with 1646.5-1660.5 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1646.5 - 1660.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		*Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)*
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (12)01* *EN 301 681*		
Remarks	*Coupled with 1545-1559 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1610 - 1613.5 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*-3 dB (W/4 kHz) (mean limit)* *-15 dB (W/4 kHz) (peak limit)*	*In this context, the mean is the mean over time whilst the MES is in the carrier-on mode*
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/DEC/(12)01; CEPT ECC DEC (09)02* *EN 301 441, EN 301 473*		
Remarks	*Coupled with 1613.8-2500 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 14 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1613.8 - 2500 MHz*		*1613.8 - 1626.5 MHz & 2483.5 - 2500 MHz*
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*-3 dB (W/4 kHz) (mean limit)* *-15 dB (W/4 kHz) (peak limit)*	*In this context, the mean is the mean over time whilst the MES is in the carrier-on mode*
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/DEC/(12)01; CEPT ECC DEC (09)02* *EN 301 441, EN 301 473*		
Remarks	*Coupled with 1610-1613.5 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 14 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*1980 - 2010 MHz*		*Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)*
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01;* *Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE*		*EN301442, EN301473, EN302574;*
Remarks	*Coupled with 2170-2200 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 15 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*2170 - 2200 MHz*		*Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)*
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations* *S-PCS*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*to be defined by the satellite operator*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (12)01* *Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE*		*EN301442, EN301473, EN302574;*
Remarks	*Coupled with 1980-2010 MHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 15 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*10700 - 12750 MHz*		*10.7 - 11.7 GHz & 12.5 - 12.75 GHz*
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*Refer to sub-class 12 (2000/299/EC)*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ERC/DEC/(98)15* *EN 301 427*		
Remarks	*Coupled with 14-14.25 GHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*14000 - 14250 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission		
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**	*to be defined by the satellite operator*	
	Antenna Gain		
	Radiated power	*Refer to sub-class 12 (2000/299/EC)*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ERC/DEC/(98)15* *EN 301 427*		
Remarks	*Coupled with 10.7-12.75 GHz*		
Notification number	*2013/32/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*19700 - 20200 MHz*		
Radio Service	*Mobile-Satellite (space-to-Earth)* *Land Mobile-Satellite (space-to-Earth)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 360; EN 301 459*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	*29500 - 30000 MHz*		
Radio Service	*Mobile-Satellite (Earth-to-space)* *Land Mobile-Satellite (Earth-to-space)*		
Application	*Satellite systems (civil)* *MSS Earth stations*		
Channel / modulation	**Channel spacing**	*to be defined by the satellite operator*	
	Designation of emission	*to be defined by the satellite operator*	
	Modulation / Occupied bandwidth	*to be defined by the satellite operator*	
	Reference frequency	*to be defined by the satellite operator*	
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*to be defined by the satellite operator*	
Direction / Separation	*to be defined by the satellite operator*		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 459*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

COSPAS-SARSAT

Parameter	Description		Comment
Frequency band	*406 - 406.1 MHz*		
Radio Service	*Mobile-Satellite*		
Application	*Satellite systems (civil)*		*COSPAS SARSAT regrouping:* *Emergency Position Indicating Radio Beacons (EPIRB)* *Emergency Locator Transmitter (ELT)* *Personal Locator Beacons (PLB)*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*Phase modulation of +-(1.1) radians peak*	
	Reference frequency	*406.025 MHz +- 0.005 MHz*	
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*5 W e.i.r.p. +- 2 dB*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*400 bps*	
Direction / Separation			
Authorisation regime	*For ELT and EPIRB individual license required.*		
Add. essential requirements	*Decision 2005/631/EC* *Decision 2013/638/EU*		
Freq. planning assumption			
Planned changes			
Reference	*EN 300 066 (EPIRB)* *EN 302 152 (PLB)*		
Remarks	*Usage of ELT and EPIRB*		*In case of ELT and EPIRB, these equipments should only be operated by a person who is holder of a valid operator certificate.* *PLB's are for the time being not supported on the territory of Luxembourg.* *Beacon owners who wish to register their beacons should do this on the site https://www.406registration.com.*
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Mobile Satellite Service

Non-voice transmit-only Mobile Earth Stations

Parameter	Description		Comment
	1613.8 - 1626.5 MHz		
	Mobile-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	MSS Earth stations		*Non-voice transmit-only Mobile Earth Stations.*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*The equipment shall operate in accordance with the provisions of footnote 5.364 of the Radio Regulations and the level of unwanted emissions shall not exceed the limits specified in the Table 1 of Annex 1 of ITU-Recommendation M-1343-1.*
	Antenna Gain		
	Radiated power	*Max. 30 dBm EIRP*	
Channel access and occupation rules	**Duty cycle**	*Max. 1%*	*The duty cycle is defined as the ratio, expressed as a percentage, of the maximum transmitter ON time on one carrier frequency, relative to a one hour period.*
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ECC DEC (09)04* *EN 301 426; EN 301 441; EN 301 473*		
Remarks			
Notification number	*2011/547/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Radiodetermination Satellite Service

GNSS Repeaters

Parameter	Description		Comment
	1164 - 1300 MHz		
	Radiodetermination-Satellite *Radionavigation-Satellite*		
	Satellite systems (civil) *Satellite navigation systems*		*Concerns GNSS-Repeaters*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Conditions of annex 1 of ECC/REC/(10)02 shall be respected.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual license required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/REC/(10)02* *EN 302 645*		
Remarks			
Notification number	*2011/466/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Radiodetermination Satellite Service

GNSS Repeaters

Parameter	Description		Comment
	1559 - 1610 MHz		
	Radiodetermination-Satellite *Radionavigation-Satellite*		
	Satellite systems (civil) *Satellite navigation systems*		*Concerns GNSS-Repeaters*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Conditions of annex 1 of ECC/REC/(10)02 shall be respected.*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual license required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC/REC/(10)02* *EN 302 645*		
Remarks			
Notification number	*2011/466/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	*0.1485 - 0.255 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	AM sound analogue		
Channel / modulation	**Channel spacing**		
	Designation of emission	*9K00A3EGN*	
	Modulation / Occupied bandwidth	*AM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 75 Agreement*		
Planned changes			
Reference	*EN 302 017*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	*0.5265 - 1.6065 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	AM sound analogue		
Channel / modulation	**Channel spacing**		
	Designation of emission	*9K00A3EGN*	
	Modulation / Occupied bandwidth	*AM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 75 Agreement*		
Planned changes			
Reference	*EN 302 017*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	*87.5 - 108 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	FM sound analogue		
Channel / modulation	**Channel spacing**	*100 kHz*	
	Designation of emission	*180KF9EG; 300KF9EH*	
	Modulation / Occupied bandwidth	*FM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 84 Agreement* *ITU-R B.S.412-9* *ITU-R B.S.450-3*		*Pilot system*
Planned changes			
Reference	*EN 302 018 (ETS 300 384)*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	*98.7 - 98.7 MHz*		*Only for temporary use during local events for transmission of event-related information.*
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	FM sound analogue		
Channel / modulation	**Channel spacing**	*100 kHz*	
	Designation of emission	*180KF9EG; 300KF9EH*	
	Modulation / Occupied bandwidth	*FM*	
	Reference frequency		
Transmit power / Power density	**Output power**	*Max. 1W*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*No licensing required, but notification to the ILR prior to putting into service.*		
Add. essential requirements			
Freq. planning assumption	*GE 84 Agreement* *ITU-R B.S.412-9* *ITU-R B.S.450-3*		*Pilot system*
Planned changes			
Reference	*EN 302 018 (ETS 300 384)*		
Remarks			
Notification number	*2012/305/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	*99.5 - 99.5 MHz*		*Only for temporary use during local events for transmission of event-related information.*
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	FM sound analogue		
Channel / modulation	**Channel spacing**	*100 kHz*	
	Designation of emission	*180KF9EG; 300KF9EH*	
	Modulation / Occupied bandwidth	*FM*	
	Reference frequency		
Transmit power / Power density	**Output power**	*Max. 1W*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*No licensing required, but notification to the ILR prior to putting into service.*		
Add. essential requirements			
Freq. planning assumption	*GE 84 Agreement* *ITU-R B.S.412-9* *ITU-R B.S.450-3*		*Pilot system*
Planned changes			
Reference	*EN 302 018 (ETS 300 384)*		
Remarks			
Notification number	*2012/305/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*0.1485 - 0.2835 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*9 kHz*	*Under study*
	Designation of emission	*9K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 75 Agreement*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*0.5265 - 1.6065 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*9 kHz*	*Under study*
	Designation of emission	*9K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 75 Agreement*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*3.95 - 4 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*5.9 - 6.2 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*RR Article 12*		
Freq. planning assumption			
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*7.2 - 7.4 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*9.4 - 9.9 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Artile 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*11.6 - 12.1 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*13.57 - 13.87 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*15.1 - 15.8 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*17.48 - 17.9 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under Study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*18.9 - 19.02 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*CLass 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*21.45 - 21.85 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Artivle 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*25.67 - 26.1 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DRM		
Channel / modulation	**Channel spacing**	*10 kHz*	*Under study*
	Designation of emission	*10K00A3E*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*RR Article 12*		
Planned changes			
Reference	*EN 302 245*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	*174 - 230 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	T-DAB		
Channel / modulation	**Channel spacing**	*1.5 MHz*	
	Designation of emission	*1M50X7EEF*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 06 plan*		
Planned changes			
Reference	*EN 302 077*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

TV digital

Parameter	Description		Comment
Frequency band	*174 - 230 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DVB-T		
Channel / modulation	**Channel spacing**	*7 MHz*	
	Designation of emission	*7M00X7FXF*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 06 plan*		
Planned changes			
Reference	*EN 300 744, EN 302 296*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Broadcasting

TV digital

Parameter	Description		Comment
Frequency band	*470 - 790 MHz*		
Radio Service	*Broadcasting*		
Application	*Broadcasting*		
	Broadcasting (terrestrial)		
	DVB-T		
Channel / modulation	**Channel spacing**	*8 MHz*	
	Designation of emission	*8M00X7FXF*	
	Modulation / Occupied bandwidth	*to be defined by the operator*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*GE 06 plan*		
Planned changes			
Reference	*EN 300 744; EN 302 296*		
Remarks			
Notification number	*2010/708/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*68 - 74.8 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*9.8 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*75.2 - 87.5 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*9.8 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*146 - 156.5125 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*156.5375 - 156.7625 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*4.6 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*156.8375 - 169.4 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*4.6 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*169.825 - 174 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*4.6 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*384.75 - 385 MHz*		
Radio Service	*Mobile*		
Application	*Aeronautical* *Aeronautical communications* *AGA communications (civil)*		*Only digital trunking applications for emergency services.*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Digital; PI/4 DQPSK*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*10 MHz*		*Mobile transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 035; TBR 35; TR 102 459*		
Remarks	*Coupled with 394.75-395.0 MHz*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*394.75 - 395 MHz*		
Radio Service	*Mobile*		
Application	*Aeronautical* *Aeronautical communications* *AGA communications (civil)*		*Only digital trunking applications for emergency services.*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Digital; PI/4 DQPSK*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*10 MHz*		*BS transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 035; TBR 35; TR 102 459*		
Remarks	*Coupled with 384.75-385.0 MHz*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*380 - 385 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR* *TETRA*		*Only digital trunking applications for emergency services. Network stations without DMO.*
Channel / modulation	**Channel spacing**	*6.25 kHz;12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*30 W ; 10 W ; 3 W ; 1 W*	*e.r.p. will be defined during licensing procedure*
	Antenna Gain		*45 dBm (30W) Power class 1* *40 dBm (10W) Power class 2* *35 dBm (3W) Power class 3* *30 dBm (1W) Power class 4*
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity		
Direction / Separation	*10 MHz*		*Mobile station transmit.*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC(08)05*		
Planned changes			
Reference	*EN 301 166; EN 303 035; TBR 35; EN 302 561* *ECC DEC(08)05*		
Remarks	*Coupled with 390-395 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 1*		*Refer to sub-class 13 (Commission Decision 2000/29)* *25 kHz channel spacing*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*390 - 395 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR* *TETRA*		*Only digital trunking applications for emergency services. Network stations without DMO.*
Channel / modulation	**Channel spacing**	*6.25 kHz;12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*30 W ; 10 W ; 3 W ; 1 W*	*e.r.p. will be defined during licensing procedure*
	Antenna Gain		*45 dBm (30W) Power class 1* *40 dBm (10W) Power class 2* *35 dBm (3W) Power class 3* *30 dBm (1W) Power class 4*
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity		
Direction / Separation	*10 MHz*		*BS transmit.*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC(08)05*		
Planned changes			
Reference	*EN 301 166; EN 303 035; TBR 35; EN 302 561* *ECC DEC(08)05*		
Remarks	*Coupled with 380-385 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 1*		*Refer to sub-class 13 (Commission Decision 2000/29)* *25 kHz channel spacing*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*406.1 - 410 MHz*		
Radio Service	*Mobile* *Mobile except aeronautical mobile*		
Application	*Land mobile* *PMR/PAMR* *PMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation			
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166 and TS 102 361*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*410 - 420 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		*Only trunking applications*
Channel / modulation	**Channel spacing**	*12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*FM/Digital*	
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*Mobile station transmit.*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN300086;EN300113;EN300219;EN300296;EN300341; EN300390;EN301166;EN303035;EN302561*		
Remarks	*Coupled with 420-430 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*420 - 430 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		*Only trunking applications*
Channel / modulation	**Channel spacing**	*12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*FM/Digital*	
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*BS transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN300086;EN300113;EN300219;EN300296;EN300341; EN300390;EN301166;EN303035;EN302561*		
Remarks	*Coupled with 410-420 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*440 - 450 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation			
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166 and TS 102 361*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*450 - 460 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50kHz; 100kHz; 150kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used. Not applicable for trunking applications.*
	Access protocol	*EN 300 471 (see remark)*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*Mobile station transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*460 - 470 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR*		
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz,100 kHz, 150 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	*Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used. Not applicable for trunking applications.*
	Access protocol	*EN 300 471*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*Base station transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561*		
Remarks			
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*450 - 460 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR* *TETRA*		
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Digital; PI/4 DQPSK*	
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*Mobile station transmit.*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 035*		
Remarks	*Coupled with 460 - 470 MHz*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	*460 - 470 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR* *TETRA*		
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Digital; PI/4 DQPSK*	
	Reference frequency		
Transmit power / Power density	**Output power**	*e.r.p. will be defined during licensing procedure*	
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		*BS transmit*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 303 035*		
Remarks	*Coupled with 450 - 460 MHz*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

PMR446

Parameter	Description		Comment
Frequency band	*446 - 446.2 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *PMR/PAMR* *PMR 446*		
Channel / modulation	**Channel spacing**	*12.5 kHz*	*Lowest carrier frequency: 446.00625 MHz*
	Designation of emission		
	Modulation / Occupied bandwidth	*FM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*Integral antenna only*
	Antenna Gain		
	Radiated power	*0.5 W e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*Maximum Transmitter time-out: 180 s*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*Not applicable*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (15)05*		
Planned changes			
Reference	*EN 300 296; EN 301 116* *ECC DEC (15)05*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

PMR

PMR446 digital

Parameter	Description		Comment
Frequency band	*446 - 446.2 MHz*		
Radio Service	*Mobile* *Land Mobile*		*446.0 – 446.1 MHz as of 1 January 2018*
Application	*Land mobile* *PMR/PAMR* *PMR 446*		*Digital PMR 446*
Channel / modulation	**Channel spacing**	*6.25 or 12.5 kHz*	*Lowest carrier frequency:* *• 6.25 kHz channeling: 446.103125 MHz* *• 12.5 kHz channeling: 446.10625 MHz* *Lowest carrier frequency as of 1 January 2018:* *• 6.25 kHz channeling: 446.003125 MHz* *• 12.5 kHz channeling: 446.00625 MHz*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**		*Integral antenna only*
	Antenna Gain		
	Radiated power	*0.5 W e.r.p.*	
Channel access and occupation rules	**Duty cycle**	*Maximum transmitter time-out : 180 s*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*Not applicable*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ECC DEC (15)05*		
Planned changes			
Reference	*EN 300 113 or EN 301 166*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

UIC

Parameter	Description		Comment
Frequency band	*457.4 - 458.3 MHz*		
Radio Service	*Mobile*		
Application	*Land mobile*		*Railway application*
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*FM; PM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol		
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks	*Coupled with 467.4 - 468.3 MHz*		
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

UIC

Parameter	Description		Comment
Frequency band	*467.4 - 468.3 MHz*		
Radio Service	*Mobile*		
Application	*Land mobile*		*Railway application*
Channel / modulation	**Channel spacing**	*6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*FM; PM*	
	Reference frequency		
Transmit power / Power density	**Output power**		*e.r.p. will be defined during licensing procedure*
	Antenna Gain		
	Radiated power	*Not defined*	
Channel access and occupation rules	**Duty cycle**	*Not defined*	
	Access protocol		
	Trans. capacity	*Not defined*	
Direction / Separation	*10 MHz*		
Authorisation regime	*Individual licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166*		
Remarks	*Coupled with 457.4 - 458.3 MHz*		
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5875 - 5905 MHz		
	Mobile *Land Mobile*		
	Land mobile *ITS*		
	Channel spacing		*Intelligent Transport Systems* *For traffic safety appliations on a non-exclusive basis.*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB.*
	Antenna Gain		
	Radiated power	*23 dBm/MHz eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Decision 2008/671/EC ;* *ECC DEC (08)01 ;* *ECC Report 101 ; ECC Report 228* *EN 302 571*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5905 - 5925 MHz		
	Mobile *Land Mobile*		
	Land mobile *ITS*		
	Channel spacing		*Intelligent Transport Systems*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB.*
	Antenna Gain		
	Radiated power	*23 dBm/MHz eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (08)01 ;* *ECC Report 101 ; ECC Report 228* *EN 302 571*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	63 - 64 MHz		
	Mobile *Land Mobile*		
	Land mobile *ITS*		
	Channel spacing		*Intelligent Transport Systems*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Max: 40 dBm eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC DEC (09)01 ;* *ECC Report 113 ;* *EN 302 686*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5855 - 5875 MHz		
	Mobile *Land Mobile*		
	Land mobile *ITS*		*for ITS non-safety applications*
	Channel spacing		*Intelligent Transport Systems, non safety applications*
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB*
	Antenna Gain		
	Radiated power	*23 dBm/MHz eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Exempt from individual licensing.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC REC 08-01 ;* *ECC Report 101; ECC Report 228;* *EN 302 571*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Public Protection Disaster Relief

Parameter	Description		Comment
	5150 - 5250 MHz		
	Mobile *Land Mobile*		
	Land mobile *PPDR* *BBDR*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		*BS: Base Station* *UE: User Equipment*
	Radiated power	*26 dBm/Mhz eirp (BS)* *13 dBm/MHz eirp (UE)*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*ECC REC (08)04* *EN 302 625*		
Remarks			
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
	455.825 - 455.9375 MHz		*Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz*
	Mobile *Land Mobile*		
	Land mobile *Paging*		
	Channel spacing	*12.5 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Defined during licensing procedure*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*10 MHz*		*Mobile transmit*
Authorisation regime	*Individual licence required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 224*		
Remarks	*Coupled with 465.825-465.9375 MHz*		
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
	465.825 - 465.9375 MHz		*Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz*
	Mobile *Land Mobile*		
	Land mobile *Paging*		
	Channel spacing	*12.5 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Defined during licensing procedure*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*10 MHz*		*Base station transmit*
Authorisation regime	*Individual licence required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 224*		
Remarks	*Coupled with 455.825-455.9375 MHz*		
Notification number	*2005/0347/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
	47 - 47.25 MHz		
	Mobile *Land Mobile*		
	Land mobile *Paging*		
	Channel spacing	*12.5 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Defined during licensing procedure*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licence required.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 224*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

CB

Parameter	Description		Comment
Frequency band	*26.96 - 27.41 MHz*		*Excluding 26.995, 27.045, 27.095, 27.145 and 27.195 MHz*
Radio Service	*Mobile*		
Application	*Other* *CB radio* *DSB/SSB AM CB / CEPT PR 27*		
Channel / modulation	**Channel spacing**	*10 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Angle modulated / DSB / SSB*	
	Reference frequency		
Transmit power / Power density	**Output power**		*4 Watt for angle modulation* *4 Watt RMS for DSB* *12 Watt PEP for SSB*
	Antenna Gain		
	Radiated power	*4 W/ 12 W*	
Channel access and occupation rules	**Duty cycle**	*Not applicable*	
	Access protocol	*Not applicable*	
	Trans. capacity	*Not applicable*	
Direction / Separation	*NA*		
Authorisation regime	*Exempt from individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Intended for analogue speech.*		*Includes the possibility of data transmissions within the speech channel, where applicable.*
Planned changes			
Reference	*ECC/DEC/(11)03; EN 300 433*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
	2010 - 2025 MHz		*Commission Implementing Decision (EU) 2016/339 of 8 March 2016 on the harmonisation of the 2010-2025 MHz frequency band*
	Mobile *Land Mobile*		
	Land mobile *PMSE*		*Temporary Wireless Video Links*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		*Cordless camera: -7 dBW e.i.r.p.* *Mobile video links: 10 dBW e.i.r.p.* *Portable video links: 16 dBW e.i.r.p.*
	Antenna Gain		
	Radiated power	*see comment*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*NA*		
Authorisation regime	*Individual licence, temporary use only*		
Add. essential requirements			
Freq. planning assumption	*Decision 2016/339/EU*		
Planned changes			
Reference	*Decision 2016/339/EU* *EN 302 064*		
Remarks			
Notification number			
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
	2245 - 2290 MHz		
	Mobile *Land Mobile*		
	Land mobile *PMSE* *Cordless cameras*		*Temporary Wireless Video Links*
	Channel spacing	*5MHz, 10 MHz, 20 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Defined during licence procedure*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*NA*		
Authorisation regime	*Individual licence, temporary use only*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 064*		
Remarks			
Notification number			
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
	2335 - 2395 MHz		
	Mobile *Land Mobile*		
	Land mobile *PMSE* *Cordless cameras*		*Temporary Wireless Video Links*
	Channel spacing	*5MHz, 10 MHz, 20 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Defined during licence procedure*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*NA*		
Authorisation regime	*Individual licence, temporary use only*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 302 064*		
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

High power remote controls in PMR bands

Parameter	Description		Comment
	146 - 174 MHz		
	Mobile *Land Mobile*		
	Land mobile *Telemetry/Telecommand (civil)*		*Remote controls for example cranes, locomotives ....*
	Channel spacing	*12.5 / 20 / 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*500 mW erp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing required*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Other applications

High power remote controls in PMR bands

Parameter	Description		Comment
	440 - 470 MHz		
	Mobile *Land Mobile*		
	Land mobile *Telemetry/Telecommand (civil)*		*Remote controls for example cranes, locomotives ....*
	Channel spacing	*12.5 / 20 / 25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*500 mW erp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing required*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 300 220*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	0.1357 - 0.1378 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*1W eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*CEPT ERC REC62-01* *EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	0.472 - 0.479 MHz		
	Amateur		
	Other		*Secondary service*
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*1W eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	1.81 - 1.85 MHz		
	Amateur		*1810 - 1830 kHz as secondary (1)* *1830 - 1850 kHz as primary (2)*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*(2) : 1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power	*(1) : 10W eirp*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	1.85 - 2 MHz		
	Amateur		*Secondary service*
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*10W e.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	3.5 - 3.8 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	5.3515 - 5.3665 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*15W e.i.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number			
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	7 - 7.2 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for theinstallation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	10.1 - 10.15 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	14 - 14.35 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	18.068 - 18.168 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	21 - 21.45 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	24.89 - 24.99 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	28 - 29.7 MHz		
	Amateur		
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	50 - 52 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

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Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	70.15 - 70.25 MHz		
	Amateur		*Secondary service*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*10 dBW (10W) e.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	144 - 146 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	430 - 440 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	1240 - 1300 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	2300 - 2450 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	3400 - 3410 MHz		
	Amateur		*Secondary service*
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	5650 - 5850 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	10000 - 10500 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	24000 - 24250 MHz		
	Amateur		*Primary service:* *Within the sub. band 24-24.05 GHz* *Secondary service:* *Within the sub. band 24.05-24.25 GHz*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	47000 - 47200 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	75500 - 81000 MHz		
	Amateur		*Primary service:* *Within the sub. bands 75.5-76 GHz* *Secondary service:* *Within the sub. bands 76- 81 GHz*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	134000 - 141000 MHz		
	Amateur		*Primary service:* *Within the sub. bands 134-136 GHz* *Secondary service:* *Within the sub. bands 136-141 GHz*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	142000 - 149000 MHz		
	Amateur		*Primary service:* *Within the sub. band 142-144 GHz* *Secondary service:* *Within the sub. band 144-149 GHz*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
	241000 - 250000 MHz		
	Amateur		*Secondary service:* *Within the sub. band 241-248 GHz* *Primary service:* *Within the sub. band 248-250 GHz*
	Other *Amateur*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	7 - 7.1 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for theinstallation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	14 - 14.25 MHz		
	Amateur-Satellite		
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	18.068 - 18.168 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	21 - 21.45 MHz		
	Amateur		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	24.89 - 24.99 MHz		
	Amateur-Satellite		
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	28 - 29.7 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	144 - 146 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	435 - 438 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	1260 - 1270 MHz		
	Amateur-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	2400 - 2450 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	5650 - 5670 MHz		
	Amateur-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	5830 - 5850 MHz		
	Amateur-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	10450 - 10500 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	24000 - 24050 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	47000 - 47200 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	75500 - 81000 MHz		
	Amateur-Satellite		*Primary service:* *Within the sub. bands 75.5-76 GHz* *Secondary service:* *Within the sub. bands 76- 81 GHz*
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	134000 - 141000 MHz		
	Amateur-Satellite		*Primary service:* *Within the sub. bands 134-136 GHz* *Secondary service:* *Within the sub. bands 136-141 GHz*
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	142000 - 149000 MHz		
	Amateur-Satellite		*Primary service:* *Within the sub. band 142-144 GHz* *Secondary service:* *Within the sub. band 144-149 GHz*
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
	241000 - 250000 MHz		
	Amateur-Satellite		*Secondary service:* *Within the sub. band 241-248 GHz* *Primary service:* *Within the sub. band 248-250 GHz*
	Satellite systems (civil) *Amateur-satellite*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*1000W p.e.p.*	*If EIRP > 1000W then a special autorisation for the installation is mandatory*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual Licencing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 783*		
Remarks	*Equipment may be operated only by a person in possession of a radio operator's certificate*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Mobile

Aeronautical VHF-Direction Finder

Parameter	Description		Comment
	117.975 - 137 MHz		*This frequency range is managed by the frequency management group of ICAO*
	Mobile *Aeronautical Mobile*		
	Aeronautical *Aeronautical navigation* *VOR*		*Direction Finder for VHF COM 8.33/25 kHz*
	Channel spacing	*8.33/25kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*less 10%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume V*		
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *EN 300 676*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume III and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Mobile

Aeronautical Communications

Parameter	Description		Comment
Frequency band	*117.975 - 137 MHz*		*This frequency range is managed by the frequency management group of ICAO*
Radio Service	*Mobile* *Aeronautical Mobile*		
Application	*Aeronautical* *Aeronautical communications*		*Voice Communication, VHF COM 8.33/25 kHz*
Channel / modulation	**Channel spacing**	*8.33/25 kHz*	
	Designation of emission	*VHF COM*	
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency		
Transmit power / Power density	**Output power**	*50W*	
	Antenna Gain	*0dB*	
	Radiated power	*35W*	
Channel access and occupation rules	**Duty cycle**	*less 10%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume V*		
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *EN 300 676*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume III, Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Mobile

Aeronautical Communication Receiver

Parameter	Description		Comment
	117.975 - 137 MHz		*This frequency range is managed by the frequency management group of ICAO*
	Mobile *Aeronautical Mobile*		
	Aeronautical *Aeronautical communications*		*Voice Communication, VHF COM 8.33/25 kHz*
	Channel spacing	*8.33/25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*less 10%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume V*		
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *EN 300 676*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume III and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

ILS

Parameter	Description		Comment
	108 - 111.975 MHz		*This frequency range is managed by the frequency management group of ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical navigation* *ILS*		*Ground equipment* *Localizer and Glidepath*
	Channel spacing	*50 kHz in VHF band* *150 kHz in UHF band*	*ICAO Annexe 10, Volume I* *ICAO Doc 7754*
	Designation of emission		
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency		
	Output power	*According ICAO Annexe 10, Volume I*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *-* *ICAO Annexe 10, Volume I*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks	*Coupled with 328.6 - 335.4 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume I and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

ILS

Parameter	Description		Comment
	328.6 - 335.4 MHz		*This frequency range is managed by the frequency management group of ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical navigation* *ILS*		*Ground equipment* *Localizer and Glidepath*
	Channel spacing	*50 kHz in VHF band* *150 kHz in UHF band*	*ICAO Annexe 10, Volume I* *ICAO Doc 7754*
	Designation of emission		
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency		
	Output power	*According ICAO Annexe 10, Volume I*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *-* *ICAO Annexe 10, Volume I*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks	*Coupled with 108 - 111.975 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume I and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

VOR

Parameter	Description		Comment
Frequency band	*108 - 111.975 MHz*		*This frequency range is managed by the frequency management group of ICAO*
Radio Service	*Radiodetermination* *Radionavigation* *Aeronautical Radionavigation*		
Application	*Aeronautical* *Aeronautical navigation* *VOR*		*VHF Omnidirectional radio range (VOR) Doppler VOR (DVOR)*
Channel / modulation	**Channel spacing**	*50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*AM / FM*	
	Reference frequency		
Transmit power / Power density	**Output power**	*According ICAO Annexe 10, Volume I, chapter 3.3*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *Eurocae ED 52*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks	*Coupled with 111.975 - 117.975 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume I and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

VOR

Parameter	Description		Comment
Frequency band	*111.975 - 117.975 MHz*		*This frequency range is managed by the frequency management group of ICAO*
Radio Service	*Radiodetermination* *Radionavigation* *Aeronautical Radionavigation*		
Application	*Aeronautical* *Aeronautical navigation* *VOR*		*VHF Omnidirectional radio range (VOR) Doppler VOR (DVOR)*
Channel / modulation	**Channel spacing**	*50 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*AM / FM*	
	Reference frequency		
Transmit power / Power density	**Output power**	*According ICAO Annexe 10, Volume I, chapter 3.3*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *Eurocae ED 52*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks	*Coupled with 108 - 111.975 MHz*		
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume I and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

Beacons (aeronautical)

Parameter	Description		Comment
Frequency band	*0.3 - 0.405 MHz*		*Frequency coordination by ICAO*
Radio Service	*Radiodetermination* *Radionavigation* *Aeronautical Radionavigation*		
Application	*Aeronautical* *Aeronautical navigation* *Beacons (aeronautical)*		*Non-directional beacons (NDB)*
Channel / modulation	**Channel spacing**		
	Designation of emission		
	Modulation / Occupied bandwidth	*A2A*	
	Reference frequency		
Transmit power / Power density	**Output power**	*According ICAO Annexe 10, Volume I*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*100%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *EN 55022* *ICAO Annexe 10 Volume I*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional requierements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume I and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Radionavigation

DME

Parameter	Description		Comment
Frequency band	*960 - 1215 MHz*		*This frequency range is managed by the frequency management group of ICAO*
Radio Service	*Radiodetermination* *Radionavigation* *Aeronautical Radionavigation*		
Application	*Aeronautical* *Aeronautical navigation* *DME*		*Distance Measuring Equipment*
Channel / modulation	**Channel spacing**	*1 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	-	
	Reference frequency		
Transmit power / Power density	**Output power**	*1 kW peak (en route transponder)* *80 W peak DME/P*	
	Antenna Gain	*6dB*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*ICAO Annexe 10, Volume I*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*63 MHz*		
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption	*ICAO Annexe 10, Volume I and Volume V*		
Planned changes			
Reference	*EN 60950* *EN 55022* *Eurocae ED57*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

Emergency Locator Transmitter (ELT)

Parameter	Description		Comment
	242.95 - 243.05 MHz		
	Mobile *Aeronautical Mobile*		
	Aeronautical *Aeronautical surveillance*		*Emergency Locator Transmitter (ELT)*
	Channel spacing		
	Designation of emission	*----A3E--*	
	Modulation / Occupied bandwidth	*A3E*	
	Reference frequency	*243 MHz*	
	Output power		
	Antenna Gain		
	Radiated power	*100 mW e.i.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*Eurocae ED-62*		*Minimum operational performance specification for Aircraft Emergency Locator Transmitter*
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

Monopulse Secondary interrogator Radar

Parameter	Description		Comment
	1030 - 1090 MHz		*Frequency allocated to Secondary Radars ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance*		*Airplane detection and ranging*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*2 kW peak*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*6%*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*60%*		
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *Eurocae ED52*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume II and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

Monopulse Mode-S Secondary interrogator Radar

Parameter	Description		Comment
	1030 - 1090 MHz		*Frequency allocated to Secondary Radars ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance*		*Airplane detection and ranging Mode-S*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*2 kW peak*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*66%*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*60 MHz*		
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *Eurocae ED52*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume II, Volume V and Eurocontro*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

Mode-S test interrogator

Parameter	Description		Comment
	1030 - 1090 MHz		*Frequency allocated to Secondary Radars ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance*		*Monitoring of Mode-S equipments*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*1 W peak*	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*1%*	
	Access protocol		
	Trans. capacity		
Direction / Separation	*60 MHz*		
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 60950* *EN 301 489-22* *Eurocae ED57* *E061-04-1234TD*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10 Volume II and Eurocontrol specifica*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

Primary surveillance Radar

Parameter	Description		Comment
	2700 - 2900 MHz		*Frequency allocated to Primary Radar ICAO*
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance* *Primary radar*		*Airplane detection and ranging PSR*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	**Output power**	*(1) 1 MW pulse* *(2) 18kW pulse compression*	
	Antenna Gain	*ICAO Annexe 10, Volume II*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**	*(1) 0.18%* *(2) 1.1%*	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing procedure*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 60950* *EN 55022* *Eurocae ED57*		*Electrical safety* *EMC* *Effective use of spectrum* *Additional essential requirements*
Remarks			
Notification number	*2007/351/L*		
Equipment class	*Class 2*		*ICAO Annexe 10, Volume II and Volume V*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

A-SMGCS

Parameter	Description		Comment
	9000 - 9200 MHz		
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance*		*Advanced Surface Movement Guidance and Control System*
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*<= 50 dBW (PEP)*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*Limits for Out-of-band and spurious emissions according to EN 303 213-6 apply.*		
Planned changes			
Reference	*EN 303 213*		
Remarks			
Notification number	*2015/12/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Aeronautical Surveillance

ADS

Parameter	Description		Comment
	1030 - 1090 MHz		
	Radiodetermination *Radionavigation* *Aeronautical Radionavigation*		
	Aeronautical *Aeronautical surveillance* *ADS*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Individual licensing regime*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EUROCAE ED117*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	0.518 - 0.518 MHz		
	Mobile *Maritime Mobile*		
	Maritime *GMDSS* *NAVTEX*		*Navtex equipment.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*not defined*	
	Designation of emission	*----F1B--*	
	Modulation / Occupied bandwidth	*F1B*	
	Reference frequency	*518 kHz*	
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 300 065*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	1.605 - 4 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		*Usage for radio telephony and digital selective calling (DSC)*
	Maritime *GMDSS*		*Fixed MF/HF equipment on board of ship stations.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing		*J3E for telephony* *J2B for DSC* *F1B*
	Designation of emission		
	Modulation / Occupied bandwidth	*J3E;J2B;F1B*	
	Reference frequency		
	Output power	*400 W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*ETS 300 373; EN 300 338*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	1.605 - 4 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		*Usage for radiotelex and narrow-band direct printing (NBDP)*
	Maritime *GMDSS*		*Fixed MF/HF equipment on board of ship stations.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing		*F1B, J2B for radiotelex*
	Designation of emission		
	Modulation / Occupied bandwidth	*F1B, J2B*	
	Reference frequency		
	Output power	*400 W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*ETS 300 373*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	4 - 27.5 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		*Usage for radio telephony and digital selective calling (DSC)*
	Maritime *GMDSS*		*Fixed HF equipment on board of ship stations.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing		*J3E for telephony* *J2B for DSC* *F1B*
	Designation of emission		
	Modulation / Occupied bandwidth	*J3E;J2B;F1B*	
	Reference frequency		
	Output power	*1 500 W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*ETS 300 373; EN 300 338*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	4 - 27.5 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		*Usage for radiotelex and narrow-band direct printing (NBDP)*
	Maritime *GMDSS*		*Fixed HF equipment on board of ship stations.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing		*F1B, J2B for radiotelex*
	Designation of emission		
	Modulation / Occupied bandwidth	*F1B, J2B*	
	Reference frequency		
	Output power	*1 500 W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*ETS 300 373*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		
	Maritime *GMDSS*		*Survival craft portable VHF radiotelephone apparatus. No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*25 kHz*	*G3E for telephony*
	Designation of emission	*16K0G3E--*	
	Modulation / Occupied bandwidth	*G3E*	
	Reference frequency		
	Output power	*1 W; 6W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU* *Decision 2000/637/EC (ATIS/AIS)*		*Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiotelephone service on inland waterways.*
Freq. planning assumption	*ITU App.18*		
Planned changes			
Reference	*ETS 300 225*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		
	Maritime *GMDSS*		*Fixed VHF equipment on board of ship stations* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*25 kHz*	
	Designation of emission	*16K0G3E--*	
	Modulation / Occupied bandwidth	*G3E*	
	Reference frequency		
	Output power	*1 W; 25 W*	*25 W, but with possibility to be reduced to max.* *1 W (manually).*
	Antenna Gain		
	Radiated power	*max 25 W e.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU App.18*		
Planned changes			
Reference	*EN 301 466; EN 300 162*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		
	Maritime *GMDSS* *DSC*		*Fixed VHF equipment on board of ship stations with DSC Class D on ch 70.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*25 kHz*	*G2B for DSC usage on ch70*
	Designation of emission	*16K0G2B--*	
	Modulation / Occupied bandwidth	*G2B*	
	Reference frequency		
	Output power	*1 W; 25 W*	*25 W, but with possibility to be reduced to max.* *1 W (manually).*
	Antenna Gain		
	Radiated power	*max 25 W e.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU App.18*		
Planned changes			
Reference	*EN 301 025; EN 300 338; IEC 62238*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress, safety and calling)*		
	Maritime *GMDSS* *DSC*		*Handheld VHF equipment on board of ship stations with DSC Class D on ch 70.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*25 kHz*	*G2B for DSC usage on ch70*
	Designation of emission	*16K0G2B--*	
	Modulation / Occupied bandwidth	*FSK/16kHz*	
	Reference frequency		
	Output power	*max 6W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ITU App.18*		
Planned changes			
Reference	*EN 302 885*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile*		
	Maritime *Maritime communications* *On-board communications*		*Portable VHF equipment on board of ship station (maritime and Inland waterways).* *Inland waterways:* ** Usage limited to the channels 15 and/or 17 (on board communications).* ** ATIS should be encoded.*
	Channel spacing	*25 kHz*	
	Designation of emission	*16K0G3E--*	
	Modulation / Occupied bandwidth	*G3E*	
	Reference frequency		
	Output power	*0.1 - 1 W; 1 W; 6 W*	*Maritime:* *6 W, but with possibility to be reduced to max. 1 W.* *Inland waterways:* *0.1 - 1 W*
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2000/637/EC (ATIS)*		*Application of Article 3(3)(e) of Directive 1999/5/EC to radio* *equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.*
Freq. planning assumption	*ITU App.18* *Rainwat Arrangment 2012*		
Planned changes			
Reference	*EN 301 178; EN 300 698*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile*		
	Maritime *Maritime communications* *Inland waterway communications*		*Fixed VHF equipment on board of ship stations (maritime and Inland waterways).*
	Channel spacing	*25 kHz*	
	Designation of emission	*16K0G3E--*	
	Modulation / Occupied bandwidth	*G3E*	
	Reference frequency		
	Output power	*1 W; 25 W*	*25 W, but with possibility to be reduced to max. 1 W (manually and automatically).*
	Antenna Gain		
	Radiated power	*max 25 W e.r.p.*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2000/637/EC (ATIS)*		*Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.*
Freq. planning assumption	*ITU App.18, Rainwat Arrangment 2012*		
Planned changes			
Reference	*EN 300 698*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile *Maritime Mobile* *Maritime Mobile (distress and safety)*		
	Maritime *Maritime communications* *Inland waterway communications*		*VHF coast station for inland waterways*
	Channel spacing	*25 kHz; 12.5 kHz*	
	Designation of emission	*G3E*	
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	*as defined by ETSI standard*	
	Antenna Gain		
	Radiated power	*as defined by ETSI standard*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*4.6 MHz*		*Part of the band is simplex*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes	*ITU App.18, Rainwat Arrangment 2012*		
Reference	*EN 301 929*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2013/632/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	*161.975 - 161.975 MHz*		*AIS1*
Radio Service	*Mobile* *Maritime Mobile*		
Application	*Maritime* *Maritime communications* *AIS*		*RIS (River Information Services) for Inland waterways*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*GMSK/FM*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*12.5W max*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Licence is necessary as well as attribution of an MMSI number*		
Add. essential requirements	*For radio equipement intending to participate in AIS, Commission Decision 2005/53/EC applies.*		
Freq. planning assumption	*according to ITU channeling and CEPT/ERC/DEC(99)17 Rainwat Arrangment 2012*		
Planned changes			
Reference	*IEC62287,IEC 62320, ITU-R M.1371*		
Remarks	*see comment*		*For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.*
Notification number	*2009/0375/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	*162.025 - 162.025 MHz*		*AIS2*
Radio Service	*Mobile* *Maritime Mobile*		
Application	*Maritime* *Maritime communications* *AIS*		*RIS (River Information Services) for Inland waterways*
Channel / modulation	**Channel spacing**	*25 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*GMSK/FM*	
	Reference frequency		
Transmit power / Power density	**Output power**		
	Antenna Gain		
	Radiated power	*12.5W max*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Licence is necessary as well as attribution of an MMSI number*		
Add. essential requirements	*For radio equipement intending to participate in AIS, Commission Decision 2005/53/EC applies.*		
Freq. planning assumption	*according to ITU channeling and CEPT/ERC/DEC(99)17 Rainwat Arrangment 2012*		
Planned changes			
Reference	*IEC62287, IEC 62320, ITU-R M.1371*		
Remarks	*see comment*		*For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.*
Notification number	*2009/0375/L*		
Equipment class			

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	457.5125 - 467.5875 MHz		
	Mobile *Maritime Mobile*		
	Maritime *Maritime communications* *On-board communications*		*Portable UHF equipment.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*12.5 kHz, 25 kHz*	
	Designation of emission	*16K0G3E--* *8K00G3E--*	
	Modulation / Occupied bandwidth	*G3E*	
	Reference frequency		
	Output power	*Maritime: 0.4 - 2 W*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*10 MHz*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 300 720*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	2900 - 3100 MHz		
	Radiodetermination *Radionavigation* *Maritime Radionavigation (radiobeacons)*		
	Maritime *Maritime navigation* *Maritime radar*		*s-band maritime radar equipment*
	Channel spacing	*not defined*	
	Designation of emission	*----P0N--*	
	Modulation / Occupied bandwidth	*P0N*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*max. 32 MW e.i.r.p. peak*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*IEC 62388, EN 60945, EN 62252, EN 60936*		
Remarks			
Notification number	*2009/0375/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	9200 - 9500 MHz		
	Radiodetermination *Radiolocation*		
	Maritime *GMDSS*		*SART equipment.* *No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.*
	Channel spacing	*not defined*	
	Designation of emission	*----P0N--*	
	Modulation / Occupied bandwidth	*P0N*	
	Reference frequency		
	Output power	*> 400 mW (+26 dBm)*	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements	*Decision 2013/638/EU*		
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*IEC 1097-1, EN 302 248*		
Remarks	*Usage of Equipment*		*Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.*
Notification number	*2007/351/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
	9320 - 9500 MHz		
	Radiodetermination *Radionavigation* *Maritime Radionavigation (radiobeacons)*		
	Maritime *Maritime navigation* *Maritime radar*		*x-band radar equipment (maritime + inland waterways).*
	Channel spacing	*not defined*	
	Designation of emission	*----P0N--*	
	Modulation / Occupied bandwidth	*P0N*	
	Reference frequency		
	Output power		
	Antenna Gain		** max 100 MW eirp peak for maritime radars* ** max 10 MW eirp peak for inland waterway radars*
	Radiated power	*max. 10/100 MW e.i.r.p. peak*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*not defined*		
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations* *Rainwat Arrangment 2012*		
Planned changes			
Reference	*IEC 62388, EN 302 194, EN 302 248, EN 60945, EN 62252, EN 60936*		
Remarks			
Notification number	*2008/338/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*1350 - 1375 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*1 433.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*142 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-01*		
Planned changes			
Reference	*EN 300 454; EN 302 217*		
Remarks	*Coupled with 1492 - 1517 MHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*1492 - 1517 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*1 433.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*142 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-01*		
Planned changes			
Reference	*EN 300 454; EN 302 217*		
Remarks	*Coupled with 1350 - 1375 MHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*1375 - 1400 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*25 kHz, 75 kHz, 250 kHz, 500 kHz; 1MHz; 2 MHz; 3.5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*1 413.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*52 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-01*		
Planned changes			
Reference	*EN 300 454; EN 302 217*		
Remarks	*Coupled with 1427 - 1452 MHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*1427 - 1452 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*25 kHz, 75 kHz, 250 kHz, 500 kHz; 1MHz; 2 MHz; 3.5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*1 413.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*52 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-01*		
Planned changes			
Reference	*EN 300 454; EN 302 217*		
Remarks	*Coupled with 1375 - 1400 MHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*5925 - 6425 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*29.65 MHz, 59.3 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*6 175 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*252.04 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 14-01*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*6425 - 7125 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5, 7, 14, 20, 30, 40, 60, 80 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 16 states modulation*	
	Reference frequency	*6 770 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*340 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 14-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*7125 - 7425 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*7 275 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*154 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ECC REC 02-06*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*7425 - 7725 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*7 575 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*154 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ECC REC 02-06* *ITU REC F.385-9*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*7725 - 8275 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*7, 14, 28 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*8 000 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*283.5 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ITU REC. F.386-8, ECC/REC(02)06*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*8275 - 8500 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*14 MHz; 28 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*8 387.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*119 MHz; 126 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ECC REC (02)06* *ITU REC. F.386-8*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*10150 - 10680 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*11 701 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*350 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-05*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*12750 - 13250 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*12 996 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*266 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-02*		
Planned changes			
Reference	*302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*14500 - 14620 MHz*		*Harmonised NATO band*
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*14 924 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*728 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-07*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 15.23 - 15.35 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*15230 - 15350 MHz*		*Harmonised NATO band*
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*14 924 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*728 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-07*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 14.5 - 14.62 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*17700 - 19700 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*Application only if sharing according to DEC (00)07 is possible.* *Interoperator agreement necessary.*
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 13.75 MHz; 27.5 MHz; 55 MHz; 110 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*18 700 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 010 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-03* *ITU REC F.595-10*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*22000 - 22600 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*21 196 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 008 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 23 - 23.6 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*23000 - 23600 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*21 196 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 008 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 22 - 22.6 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*24500 - 25500 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*25 501 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 008 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 25.5 - 26.5 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*25500 - 26500 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*25 501 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 008 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks	*Coupled with 24.5 - 25.5 GHz*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*27500 - 29500 MHz*		*P-P allowed in the frequency band of 27.5-29.5 GHz according to ECC DEC (05)01*
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*28 500.5 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 008 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 13-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*31000 - 31300 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*31 000 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD : None ; FDD : 140 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ECC REC 02-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*31800 - 33400 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital* *at least 4 states modulation*	
	Reference frequency	*32 599 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD, FDD :812 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 01-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*37000 - 39500 MHz*		*Sub-bands: 37 - 37.124 GHz / 38.26 - 38.402 GHz for unplanned, uncoordinated fixed links*
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*In the band 37.5-39.2 GHz sharing with FSS, according to ERC DEC (00)02*
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital at least 4 states modulation*	
	Reference frequency	*38 248 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*1 260 MHz*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC T/R 12-01* *ERC DEC (00)02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*48500 - 50200 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency	*49 350 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*884 MHz*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-10*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*51400 - 52600 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency	*51 412 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*616 MHz*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-11*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*55780 - 57000 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		
Channel / modulation	**Channel spacing**	*3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency	*TDD : 55 786 MHz* *FDD : 55 814 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD : None ; FDD : 616 MHz*		
Authorisation regime	*Individual licensing* *(bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ERC REC 12-12*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*57000 - 64000 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications.*
Channel / modulation	**Channel spacing**	*from 50 MHz up to 2500 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency	*56 950 MHz*	
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD/FDD*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*ECC/REC (09)01*		
Planned changes			
Reference			
Remarks	*EN 302 217*		
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*64000 - 66000 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications*
Channel / modulation	**Channel spacing**	*from 50 MHz up to 2500 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency		
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD / FDD*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*CEPT/ECC/REC 05-02*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*71000 - 76000 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications*
Channel / modulation	**Channel spacing**	*from 250 MHz up to 1250 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency		
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD / FDD*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*CEPT/ECC/REC 05-07*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	*81000 - 86000 MHz*		
Radio Service	*Fixed*		
Application	*Fixed* *Point-to-Point*		*This band is foreseen for point-to-point fixed links applications*
Channel / modulation	**Channel spacing**	*from 250 MHz up to 1250 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*digital*	
	Reference frequency		
Transmit power / Power density	**Output power**	*as defined by the ETSI standard*	
	Antenna Gain	*as defined by the ETSI standard*	
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*as defined by the ETSI standard*	
Direction / Separation	*TDD / FDD*		
Authorisation regime	*Individual licensing (bloc frequency assignment, individual frequency assignment)*		
Add. essential requirements			
Freq. planning assumption	*CEPT/ECC/REC 05-07*		
Planned changes			
Reference	*EN 302 217*		
Remarks			
Notification number	*2011/466/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	*1880 - 1900 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *Cordless telephones* *DECT*		
Channel / modulation	**Channel spacing**	*1728 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Refer to EN 301 406*	
	Reference frequency		
Transmit power / Power density	**Output power**		*Type of antenna : integral or dedicated*
	Antenna Gain		
	Radiated power	*250 mW peak e.r.p.*	
Channel access and occupation rules	**Duty cycle**		
	Access protocol		
	Trans. capacity	*1152 kbit/s per carrier*	
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 406*		
Remarks	*Council Directive 91/287/EEC*		
Notification number	*2009/0375/L*		*Sub-class H10 of Class 2 covers other categories of DECT equipment*
Equipment class	*Class 1*		*Refer to Sub-class 18 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	*1880 - 1900 MHz*		
Radio Service	*Mobile* *Land Mobile*		
Application	*Land mobile* *Cordless telephones* *DECT*		
Channel / modulation	**Channel spacing**	*1728 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Refer to EN 301 406*	
	Reference frequency		
Transmit power / Power density	**Output power**		*26 dBm eirp for omni-directional antennas* *30 dBm eirp for directionall antennas*
	Antenna Gain		
	Radiated power	*250 mW (24 dBm) conducted* *26 dBm eirp (see remark)* *30 dBm eirp (see remark)*	
Channel access and occupation rules	**Duty cycle**		*Refer to EN 301 406*
	Access protocol	*Instant Dynamic Channel Selection*	
	Trans. capacity		
Direction / Separation	*TDD*		*Refer to EN 301 406*
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 406* *ECC/DEC(98)22 as amended*		
Remarks	*Council Directive 91/287/EEC*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		*Refer to Sub-class H10 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

R-GSM

Parameter	Description		Comment
	876 - 880 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM-R*		
	Channel spacing	*200 kHz* *12 kHz for DMO*	
	Designation of emission		
	Modulation / Occupied bandwidth	*For non DMO operation: Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA (not for DMO operation)*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Terminal station transmit* *Repeater transmit / receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 511; EN 300 086 (DMO); EN 300 609-4 (repeaters); EN 301 419*		
Remarks	*Coupled with 921-925 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09b (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

R-GSM

Parameter	Description		Comment
	921 - 925 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM-R*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Base station transmit* *Repeater transmit / receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 876-880 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1710 - 1785 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*95 MHz*		
Authorisation regime			
Add. essential requirements	*Decision 2008/294/EC, Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502 ; EN 301 511 ; EN 302 480*		
Remarks	*Coupled with 1805-1880 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*95 MHz*		
Authorisation regime	*Individual licensing for aircrafts registered in Luxembourg*		
Add. essential requirements	*Decision 2008/294/EC, Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502 ; EN 301 511 ; EN 302 480*		
Remarks	*Coupled with 1710-1785 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1710 - 1785 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*1.4/3/5/10/15/20 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*95 MHz*		
Authorisation regime			
Add. essential requirements	*Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15*		
Remarks	*Coupled with 1805-1880 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*1.4/3/5/10/15/20 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*95 MHz*		
Authorisation regime	*Individual licensing for aircrafts registered in Luxembourg*		
Add. essential requirements	*Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15*		
Remarks	*Coupled with 1770-1785 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1920 - 1980 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*190 MHz*		
Authorisation regime			
Add. essential requirements	*Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11*		
Remarks	*Coupled with 2110-2170 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	2110 - 2170 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *MCA*		
	Channel spacing	*5 MHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*190 MHz*		
Authorisation regime	*Individual licensing for aircrafts registered in Luxembourg*		
Add. essential requirements	*Decision 2013/654/EC*		
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11*		
Remarks	*Coupled with 1920-1980 MHz*		
Notification number	*2014/450/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	10700 - 11700 MHz		
	Mobile-Satellite *Aeronautical Mobile-Satellite*		
	Land mobile *Digital cellular* *AES*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Refer to sub-class 12*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Free circulation and use.*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 302 186* *ECC/DEC(05)11*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	12500 - 12750 MHz		
	Mobile-Satellite *Aeronautical Mobile-Satellite*		
	Land mobile *Digital cellular* *AES*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Refer to sub-class 12*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Free circulation and use.*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 302 186* *ECC/DEC(05)11*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	14000 - 14250 MHz		
	Mobile-Satellite *Aeronautical Mobile-Satellite*		
	Land mobile *Digital cellular* *AES*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Refer to sub-class 12*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Free circulation and use.*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 302 186* *ECC/DEC(05)11*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 1*		*Refer to sub-class 12 (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	14250 - 14500 MHz		
	Mobile-Satellite *Aeronautical Mobile-Satellite*		
	Land mobile *Digital cellular* *AES*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	*Max. 50 dBW*	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	*Free circulation and use.*		
Add. essential requirements			
Freq. planning assumption	*ITU Regulations*		
Planned changes			
Reference	*EN 302 186* *ECC/DEC(05)11*		
Remarks			
Notification number	*2013/216/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Description		Comment
	880 - 890 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Terminal station transmit* *Repeater transmit / receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 511; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 925 - 935 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Description		Comment
	925 - 935 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Base station transmit* *Repeater transmit / receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 880 - 890 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Description		Comment
	890 - 915 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Terminal station transmit* *Repeater transmit / receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 511; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 935-960 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Description		Comment
	935 - 960 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8-PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Base station transmit* *Repeater transmit / receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 890-915 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Description		Comment
	1710 - 1785 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Gaussian Minimum Shift Keying (GMSK) / 8- PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*95 MHz*		*Terminal station transmit* *Repeater transmit / receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 511; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 1805-1880 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *GSM*		
	Channel spacing	*200 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth	*Minimum Shift Keying (GMSK) / 8- PSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*TDMA*	
	Trans. capacity		
Direction / Separation	*95 MHz*		*Base station transmit* *Repeater transmit / receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 502; EN 300 609-4 (repeaters)*		
Remarks	*Coupled with 1710-1785 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	880 - 915 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz/200 kHz channel raster*	*Carrier separation of 5 MHz or more between two neighbouring UMTS networks* *Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network*
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Terminal station transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-2; EN 301 908-11*		
Remarks	*Coupled with 925 - 960 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	925 - 960 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz/200 kHz channel raster*	*Carrier separation of 5 MHz or more between two neighbouring UMTS networks* *Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network*
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK / 16 QAM*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*45 MHz*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-3; EN 301 908-11*		
Remarks	*Coupled with 880 - 915 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	1710 - 1785 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz/200 kHz channel raster*	*Carrier separation of 5 MHz or more between two neighbouring UMTS networks* *Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network*
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*95 MHz*		*Terminal station transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-2; EN 301 908-11*		
Remarks	*Coupled with 1805 - 1880 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz/200 kHz channel raster*	*Carrier separation of 5 MHz or more between two neighbouring UMTS networks* *Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network*
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK / 16 QAM*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*95 MHz*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-8; EN 301 908-11; EC Decision 2009/766/EC*		
Remarks	*Coupled with 1710 - 1785 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	1920 - 1980 MHz		*Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)*
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz* *200 kHz channel raster*	
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*190 MHz*		*Terminal station transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence.*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-2; EN 301 908-11;* *Commission decision 2012/688/EU;* *ECC/DEC(06)01*		
Remarks	*Coupled with 2110-2170 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	2110 - 2170 MHz		*Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)*
	Mobile *Land Mobile*		
	Land mobile *Digital cellular* *IMT*		
	Channel spacing	*5 MHz* *200 kHz channel raster*	
	Designation of emission		
	Modulation / Occupied bandwidth	*QPSK / 16 QAM*	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	**Duty cycle**		
	Access protocol	*CDMA*	
	Trans. capacity		
Direction / Separation	*190 MHz*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-3; EN 301 908-11;* *Commission decision 2012/688/EU;* *ECC/DEC(06)01*		
Remarks	*Coupled with 1920-1980 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	2500 - 2570 MHz		*Harmonised radio spectrum (2008/477/EC)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 120 MHz above*		*Terminal station transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence.*		*Limits according to the annex of EC Decision 2008/477/EC are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-2; EN 301 908-13; EN 301 908-11;* *EC Decision 2008/477/EC*		
Remarks	*Frequency band coupled to 2620-2690 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	2620 - 2690 MHz		*Harmonised radio spectrum (2008/477/EC)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 120 MHz above*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		*Limits according to the annex of EC Decision 2008/477/EC are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-3; EN 301 908-14; EN 301 908-11;* *EC Decision 2008/477/EC*		
Remarks	*Frequency band coupled to 2500-2570 MHz*		
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	2500 - 2570 MHz		*Harmonised radio spectrum (2008/477/EC)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			*Time-Division-Duplex TDD* *Terminal, Base Station and repeater transmit and receive*
Authorisation regime	*Individual licensing*		*Limits according to the annex of EC Decision 2008/477/EC are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-6; EN 301 908-7; EN 301 908-13;* *EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	2570 - 2620 MHz		*Harmonised radio spectrum (2008/477/EC)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			*Time-Division-Duplex TDD* *Terminal, Base Station and repeater transmit and receive*
Authorisation regime	*Individual licensing*		*Limits according to the annex of EC Decision 2008/477/EC are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-6; EN 301 908-7; EN 301 908-13;* *EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	2620 - 2690 MHz		*Harmonised radio spectrum (2008/477/EC)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			*Time-Division-Duplex TDD* *Terminal, Base Station and repeater transmit and receive*
Authorisation regime	*Individual licensing*		*Limits according to the annex of EC Decision 2008/477/EC are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-6; EN 301 908-7; EN 301 908-13;* *EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC*		
Remarks			
Notification number	*2010/378/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3410 - 3490 MHz		*Harmonised radio spectrum (EC Decision 2014/276/EU)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing	*Ch. Raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 100 MHz above*		*Terminal station transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence*		*Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.*
Add. essential requirements			
Freq. planning assumption	*EC Decision 2008/411/EC, 2014/276/EU*		
Planned changes			
Reference	*EN 301 908* *EC Decision 2008/411/EC,2014/276/EU*		
Remarks	*Frequency band coupled to 3510-3590 MHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3510 - 3590 MHz		*Harmonised radio spectrum (EC Decision 2014/276/EU)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing	*Ch. Raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 100 MHz below*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		*Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.*
Add. essential requirements			
Freq. planning assumption	*EC Decision 2008/411/EC, 2014/276/EU*		
Planned changes			
Reference	*EN 301 908* *EC Decision 2008/411/EC,2014/276/EU*		
Remarks	*Frequency band coupled to 3410-3490 MHz*		
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3400 - 3600 MHz		*Harmonised radio spectrum (EC Decision 2014/276/EU)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing	*Ch. Raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			*Time-Division-Duplex TDD* *Terminal, Base Station and repeater transmit and receive*
Authorisation regime	*Individual licensing*		*Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.*
Add. essential requirements			
Freq. planning assumption	*EC Decision 2008/411/EC, 2014/276/EU*		
Planned changes			
Reference	*EN 301 908* *EC Decision 2008/411/EC,2014/276/EU*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3600 - 3800 MHz		*Harmonised radio spectrum (EC Decision 2014/276/EU)*
	Mobile *Land Mobile*		
	Land mobile *MFCN*		
	Channel spacing	*Ch. Raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			*Time-Division-Duplex TDD* *Terminal, Base Station and repeater transmit and receive*
Authorisation regime	*Individual licensing*		*Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.*
Add. essential requirements			
Freq. planning assumption	*EC Decision 2008/411/EC, 2014/276/EU*		
Planned changes			
Reference	*EN 301 908* *EC Decision 2008/411/EC,2014/276/EU*		
Remarks			
Notification number	*2016/7/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	791 - 821 MHz		*Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 41 MHz above*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		*Limits according to the annex of EC Decision 2010/267/EU are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-3, EN 301 908-13, EN 301 908-21* *EC Decision 2010/267/EU*		
Remarks	*Frequency band coupled with 832-862 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	832 - 862 MHz		*Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 41 MHz below*		*Terminal transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence*		*Limits according to the annex of EC Decision 2010/267/EU are applicable.*
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-2, EN 301 908-14, EN 301 908-22* *EC Decision 2010/267/EU*		
Remarks	*Frequency band coupled with 791-821 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	880 - 915 MHz		*Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 45 MHz above*		*Terminal transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-13,EN 301 908-21* *EC Decision 2011/251/EU*		
Remarks	*Frequency band coupled with 925-960 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	925 - 960 MHz		*Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 45 MHz below*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-14 ,EN 301 908-22* *EC Decision 2011/251/EU*		
Remarks	*Frequency band coupled with 880-915 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	1710 - 1785 MHz		*Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 95 MHz above*		*Terminal transmit* *Repeater transmit/receive*
Authorisation regime	*Included in operator network licence*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-13 ,EN 301 908-21* *EC Decision 2011/251/EU*		
Remarks	*Frequency band coupled with 1805-1880 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 1*		*Refer to Sub-class 09a (2000/299/EC)*

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	1805 - 1880 MHz		*Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)*
	Mobile *Mobile except aeronautical mobile*		
	TRA-ECS		
	Channel spacing	*Ch. raster: 100 kHz*	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	*Paired carrier 95 MHz below*		*Base station transmit* *Repeater transmit/receive*
Authorisation regime	*Individual licensing*		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	*EN 301 908-14 ,EN 301 908-22* *EC Decision 2011/251/EU*		
Remarks	*Frequency band coupled with 1710-1785 MHz*		
Notification number	*2012/305/L*		
Equipment class	*Class 2*		

Normative in accordance to the ***TCAM RIG II*** template

Informative in accordance to the ***TCAM RIG II*** template