

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
10 - 10.4	FIXED MOBILE RADIOLOCATION Amateur EARTH EXPLORATION SATELLITE (active) 5.A112 5.C112 5.D112 5.479	FIXED, FWA (10.15-10.3 paired with 10.5-10.65) RADIOLOCATION SRD- Short Range Devices (Tank Level Prob Radar 8.5-10.6 GHz) (Radiodeterm Applic. 30 MHz-12,4 GHz) Amateur	CEPT T/R 12-05 ERC REC 13-04 CEPT T/R 70-03 ECC/DEC (06)08 Commision Dec 2006/771/EC + amendments
10.4 – 10.45	FIXED MOBILE RADIOLOCATION Amateur	FIXED, FWA (10.15-10.3 paired with 10.5-10.65) RADIOLOCATION SRD- Short Range Devices (Tank Level Prob Radar 8.5-10.6 GHz) (Radiodeterm Applic. 30 MHz-12,4 GHz) Amateur	CEPT T/R 12-05 ERC REC 13-04 CEPT T/R 70-03 ECC/DEC (06)08 Commision Dec 2006/771/EC + amendments
10.45 – 10.5	RADIOLOCATION Amateur Amateur-Satellite	RADIOLOCATION SRD- Short Range Devices (Tank Level Prob Radar 8.5-10.6 Hz) (Radiodeterm Applic. 30 MHz-12,4 GHz) Amateur Amateur-Satellite	CEPT T/R 70-03 ECC/DEC (06)08 Commision Dec 2006/771/EC + amendments
10.5 - 10.55	FIXED MOBILE Radiolocation	FIXED, FWA (10.5-10.65 paired with 10.15-10.3) Radiolocation SRD- Short Range Devices (Tank Level Prob Radar 8.5-10.6 GHz) (Radiodeterm Applic. 30 MHz-12,4 GHz)	CEPT T/R 12-05 ERC REC 13-04 CEPT T/R 70-03 ECC/DEC (06)08 Commision Dec 2006/771/EC + amendments
10.55 - 10.6	FIXED MOBILE Radiolocation	FIXED (10.5-10.65 paired with 10.15-10.3) Radiolocation SRD- Short Range Devices (Tank Level Prob Radar 8.5-10.6 GHz) (Radiodeterm Applic. 30 MHz-12,4 GHz)	CEPT T/R 12-05 ERC REC 13-04 CEPT T/R 70-03 ECC/DEC (06)08 Commision Dec 2006/771/EC + amendments ECC/DEC (06)08
10.6 - 10.68	EARTH EXPLORATION SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.482A	FIXED (10.5-10.65 paired with 10.15-10.3) SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)	CEPT T/R 12-05 ERC REC 13-04 CEPT T/R 70-03 ECC/DEC (06)08
10.68 - 10.7	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340, 5.483	SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)	CEPT T/R 70-03 ECC/DEC (06)08

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10.7 – 10.95	<p>FIXED</p> <p>FIXED-SATELLITE (space to earth) 5.441, (Earth to space) 5.484</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED</p> <p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT down link - SNG down link - HEST downlink - LEST downlink - ESV downlink - AES downlink <p>SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)</p>	<p>CEPT T/R 12-06 ERC DEC (00)08 RR Appendix S30B CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC(05(10) ECC/DEC/(05)11</p> <p>ERC/DEC/(99)26 CEPT T/R 70-03 ECC/DEC (06)08</p>
10.95 – 11.2	<p>FIXED</p> <p>FIXED-SATELLITE (space to earth) 5.441, (Earth to space) 5.484 5.A15</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED</p> <p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT down link - SNG down link - HEST downlink - LEST downlink - ESV downlink - AES downlink <p>SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)</p>	<p>CEPT T/R 12-06 ERC DEC (00)08 RR Appendix S30B CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC(05(10) ECC/DEC/(05)11</p> <p>ERC/DEC/(99)26 CEPT T/R 70-03 ECC/DEC (06)08</p>
11.2 – 11.45	<p>FIXED</p> <p>FIXED-SATELLITE (space to earth) 5.441, (Earth to space) 5.484</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED</p> <p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT down link - SNG down link - HEST downlink - LEST downlink - ESV downlink - AES downlink <p>SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)</p>	<p>CEPT T/R 12-06 ERC DEC (00)08 RR Appendix S30B CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC(05(10) ECC/DEC/(05)11</p> <p>ERC/DEC/(99)26 CEPT T/R 70-03 ECC/DEC (06)08</p>
11.45 – 11.7	<p>FIXED</p> <p>FIXED-SATELLITE (space to earth) 5.441, (Earth to space) 5.484 5.A15</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED</p> <p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT down link - SNG down link - HEST downlink - LEST downlink - ESV downlink - AES downlink <p>SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)</p>	<p>CEPT T/R 12-06 ERC DEC (00)08 RR Appendix S30B CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC(05(10) ECC/DEC/(05)11</p> <p>ERC/DEC/(99)26 CEPT T/R 70-03 ECC/DEC (06)08</p>

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11.7 - 12.5	FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile 5.487 5.487A	BROADCASTING-SATELLITE - HEST downlink - LEST downlink SRD- Short Range Devices (Radiodeterm Applic. 30 MHz-12,4 GHz)	RR Appendix S30 RR Appendix S30A ERC DEC (00)08 ERC/DEC/(99)26 ECC/DEC/(06)03 ECC/DEC/(06)02 CEPT T/R 70-03 ECC/DEC (06)08
12.5 - 12.75	FIXED-SATELLITE (space to earth) 5.484A 5.A15 (earth to space)	FIXED-SATELLITE (earth to space) - VSAT down link - SNG down link - ESV down link - HEST down link - LEST down link - AES down link	CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC/(05)10 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)11 ERC/DEC/(99)26
12.75 - 13.25	FIXED FIXED-SATELLITE (earth to space) 5.441, MOBILE Space Research (deep space) (space to earth)	FIXED FIXED-SATELLITE (earth to space) - SNG up link	CEPT T/R 12-02 CEPT T/R 11-01
13.25 - 13.4	AERONAUTICAL RADIONAVIGATION S5.497	AERONAUTICAL RADIONAVIGATION	
13.4 - 13.65	EARTH EXPLORATION STELLITE (active) RADIOLOCATION FIXED-SATELLITE (space to Earth) 5.A161 5.X161 SPACE RESEARCH 5.B161 5.B161B Standard Frequency and Time Signal-Satellite (earth to space) Space Research 5.333 5.501B 5.C161	RADIOLOCATION SRD- Short Range Devices (Radiodeterm. Devices 13.4-14 GHz)	CEPT T/R 70-03
13.65 – 13.75	EARTH EXPLORATION STELLITE (active) RADIOLOCATION SPACE RESEARCH 5.B161 5.B161B Standard Frequency and Time Signal-Satellite (earth to space) 5.333 5.501B	SRD- Short Range Devices (Radiodeterm. Devices 13.4-14 GHz)	CEPT T/R 70-03
13.75 – 14	FIXED-SATELLITE (earth to space) RADIOLOCATION Earth exploration satellite Standard Frequency and Time Signal-Satellite (earth to space) Space Research 5.333, 5.502, 5.503	FIXED-SATELLITE (earth to space) - SNG up link RADIOLOCATION SRD- Short Range Devices (Radiodeterm. Devices 13.4-14 GHz)	CEPT T/R 11-01 CEPT T/R 70-03

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14 - 14.3	<p>FIXED-SATELLITE (earth to space) 5.506 5.457A 5.457B 5.484A 5.506B 5.A15</p> <p>RADIONAVIGATION 5.504 Mobile-Satellite (earth to space) 5.504B 5.504C 5.506A 5.508A Space Research</p> <p>5.504A 5.505</p>	<p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT up link - SNG up link - HEST up link 14.0-14.25 GHz - LEST up link 14.0-14.25 GHz - ESV up link - AES uplink 	<p>CEPT T/R 13-03 CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC(05)(10) ECC/DEC/(05)11</p>
14.3 - 14.4	<p>FIXED FIXED-SATELLITE (earth to space) 5.506 5.457A 5.457B 5.484A 5.506B 5.A15</p> <p>MOBILE except aeronautical mobile Mobile-Satellite (earth to space) 5.504B 5.506A 5.509A Radionavigation-Satellite 5.504A</p>	<p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT up link - SNG up link - ESV up link - AES uplink 	<p>CEPT T/R 13-03 CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC(05)(10) ECC/DEC/(05)11</p>
14.4 - 14.47	<p>FIXED FIXED-SATELLITE (earth to space) 5.506 5.457A 5.457B 5.484A 5.506B 5.A15</p> <p>MOBILE except aeronautical mobile Mobile-Satellite (earth to space) 5.504B 5.506A 5.509A Space Research (space to earth)</p> <p>5.504A</p>	<p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT up link - SNG up link - ESV up link 	<p>CEPT T/R 13-03 CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC(05)(10) ECC/DEC/(05)11</p>
14.47 - 14.5	<p>FIXED FIXED-SATELLITE (earth to space) 5.506 5.457A 5.457B 5.484A 5.506B</p> <p>MOBILE except aeronautical mobile Mobile-Satellite (earth to space) 5.504B 5.506A 5.509A</p> <p>Radio Astronomy</p> <p>5.149 5.504A</p>	<p>FIXED-SATELLITE (earth to space)</p> <ul style="list-style-type: none"> - VSAT up link - SNG up link - ESV - AES 	<p>CEPT T/R 13-03 CEPT T/R 11-01 CEPT T/R 11-01 ECC/DEC (03)04 ECC/DEC(05)(10) ECC/DEC/(05)11</p>
14.5 - 14.75	<p>FIXED</p> <p>FIXED-SATELLITE (earth to space) 5.510 5.A16 5.B16 5.C16 5.D16 5.E16 5.F16 MOBILE Space Research 5.C16</p>	<p>FIXED (14.5-14.62 paired with 15.23-15.35)</p>	<p>ERC/REC 12-07</p>

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14.75 – 14.8	FIXED FIXED-SATELLITE (earth to space) 5.510 MOBILE Space Research 5.C16		
14.8 - 15.35	FIXED MOBILE Space Research 5.339	FIXED (15.23-15.35 paired with 14.5-14.62)	ERC/REC 12-07
15.35 - 15.4	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
15.4 - 15.43	AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511E 5.511F		
15.43 - 15.63	FIXED-SATELLITE (earth to space) 5.511A AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511E 5.511F 5.511C		
15.63 - 15.7	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION		
15.7 - 16.6	RADIOLOCATION		
16.6 - 17.1	RADIOLOCATION Space Research (deep space)(earth to space)		
17.1 - 17.2	RADIOLOCATION	HIPERLAN SRD – Short Range Devices Radiodeterm. devices (17.1-17.3 GHz)	CEPT T/R 70—03 Commision Dec 2006/771/EC + amendmentsT/R 22-06
17.2 - 17.3	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) 5.513A	HIPERLAN SRD – Short Range Devices Radiodeterm. devices (17.1-17.3 GHz)	CEPT T/R 70—03 Commision Dec 2006/771/EC + amendmentsT/R 22-06
17.3 - 17.7	FIXED-SATELLITE (earth to space) 5.516 Radiolocation	FIXED-SATELLITE (space to earth) - ESOMP	ECC/DEC/(05)08 ECC/DEC/(13)01 ECC/DEC/(15)04
17.7 - 18.4	FIXED FIXED-SATELLITE (space to earth) (earth to Space) 5.516, 5.520 MOBILE 5.519	FIXED FIXED-SATELLITE (space to earth) - ESOMP	CEPT T/R 12-03 ERC/DEC/(00)07 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
18.4 - 18.6	FIXED FIXED-SATELLITE (space to earth) MOBILE	FIXED FIXED-SATELLITE (space to earth) - ESOMP	CEPT T/R 12-03 ERC/DEC/(00)07 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04

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18.6 - 18.8	FIXED FIXED-SATELLITE (space to earth) 5.522B MOBILE except aeronautical mobile EARTH EXPLORATION-SATELLITE (passive) Space Research (passive) 5.522A, 5.522C	FIXED FIXED-SATELLITE (space to earth) - ESOMP	CEPT T/R 12-03 ERC/DEC/(00)07 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
18.8 - 19.3	FIXED FIXED-SATELLITE (space to earth) 5.523A MOBILE	FIXED FIXED-SATELLITE (space to earth) - ESOMP	CEPT T/R 12-03 ERC/DEC/(00)07 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
19.3 - 19.7	FIXED FIXED-SATELLITE (space to earth) (earth to space) 5.523B, 5.523C, 5.523D, 5.523E MOBILE	FIXED FIXED-SATELLITE (space to earth) - ESOMP	CEPT T/R 12-03 ERC/DEC/(00)07 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
19.7 - 20.1	FIXED-SATELLITE (space to earth) 5.484A 5.516B 5.5X 5.A15 Mobile-satellite (space to earth)	- HEST downlink - LEST down link FIXED-SATELLITE (space to earth) - ESOMP	ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)08 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
20.1 - 20.2	FIXED-SATELLITE (space to earth) 5.484A 5.516B 5.5X 5.A15 MOBILE-SATELLITE (space to earth) 5.525, 5.526, 5.527, 5.528	- HEST down link - LEST down link FIXED-SATELLITE (space to earth) - ESOMP	ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)08 ERC/DEC/(99)26 ECC/DEC/(13)01 ECC/DEC/(15)04
20.2 - 21.2	FIXED-SATELLITE (space to earth) MOBILE-SATELLITE (space to earth) Standard Frequency and Time Signal-Satellite (space to earth)		
21.2 - 21.4	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		
21.4 - 22	FIXED MOBILE BROADCASTING-SATELLITE 5.530A 5.530B 5.530D	SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	ECC/DEC/(04)10 Commision Dec 2005/50/EC Commision Dec 2011/485/EC Commision Dec 2017/2077/EC
22 - 22.21	FIXED MOBILE except aeronautical mobile 5.149	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 ECC/DEC/(04)10 Commision Dec 2005/50/EC Commision Dec 2011/485/EC Commision Dec 2017/2077/EC

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22.21 - 22.5	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
22.5 - 22.55	FIXED MOBILE	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
22.55 - 23.15	FIXED MOBILE INTER-SATELLITE 5.538A SPACE RESEARCH (earth to space) 5.532A 5.149	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
23.15 – 23.55	FIXED MOBILE INTER-SATELLITE 5.538A	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
23.55 - 23.6	FIXED MOBILE	FIXED SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	T/R 13-02 ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
23.6 - 24	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz)	ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
24 - 24.05	AMATEUR AMATEUR-SATELLITE 5.150	AMATEUR AMATEUR-SATELLITE SRD – Short Range Device (Automatic SRR 21.65- 26.65 GHz) (Non-specific SRD 24,0-24,25 GHz) ISM - Industrial, Scientific and Medical applications (24.0-24.25 GHz)	CEPT T/R 70—03 ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC

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24.05 - 24.25	RADIOLOCATION Amateur Earth Exploration-Satellite (active) 5.150	RADIOLOCATION Amateur SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz) (Automotive radar 24,05-24,5 GHz) (Non-specific SRD 24,0-24,25 GHz) ISM - Industrial, Scientific and Medical applications (24.0-24.25 GHz)	CEPT T/R 60-01 CEPT T/R 70—03 Commison Dec 2006/771/EC + amendments ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC
24.25 - 24.45	FIXED	FIXED (24.5-25.445 paired with 25.557-26.5) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz) (Automotive radar 24,05-24,5 GHz)	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC CEPT T/R 70—03 Commison Dec 2006/771/EC + amendments
24.45 - 24.65	FIXED INTER-SATELLITE	FIXED (24.5-25.445 paired with 25.557-26.5) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz) (Automotive radar 24,05-24,5 GHz)	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC CEPT T/R 70—03 Commison Dec 2006/771/EC + amendments
24.65 – 24.75	FIXED FIXED-SATELLITE (Earth to space) 5.532B INTER-SATELLITE	FIXED (24.5-25.445 paired with 25.557-26.5) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz) -	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commison Dec 2005/50/EC Commison Dec 2011/485/EC Commison Dec 2017/2077/EC CEPT T/R 70—03 Commison Dec 2006/771/EC + amendments

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24.75 - 25.25	FIXED FIXED-SATELLITE (Earth to space) 5.532B	FIXED (24.5-25.445 paired with 25.557-26.5) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz)	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commision Dec 2005/50/EC Commision Dec 2011/485/EC Commision Dec 2017/2077/EC CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
25.25 - 25.5	FIXED INTER-SATELLITE 5.533 MOBILE Standard Frequency and Time Signal-Satellite (earth to space)	FIXED (24.5-25.445 paired with 25.557-26.5) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz)	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commision Dec 2005/50/EC Commision Dec 2011/485/EC Commision Dec 2017/2077/EC CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
25.5 - 27	FIXED EARTH EXPLORATION-SATELLITE (space to earth 5.536A INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space to Earth) 5.536C Standard Frequency and Time Signal-Satellite (earth to space)	FIXED (25.557-26.5 paired with 24.5-25.445) SRD - Short Range Devices (Radiodeterm. Dev. (24,05-27 GHz) (Automatic SRR 21.65- 26.65 GHz) Range Radars	CEPT T/R 13-02 Annex B ECC/DEC/(04)10 Commision Dec 2005/50/EC Commision Dec 2011/485/EC Commision Dec 2017/2077/EC CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
27 - 27.5	FIXED INTER-SATELLITE 5.536 MOBILE		
27.5 - 28.5	FIXED FIXED-SATELLITE (earth to space) 5.539 5.484A MOBILE 5.538, 5.540	FIXED (27,9405-28,4445 GHz paired with 28,9485-29,4525 GHz and 27,8285- 27,9405 unpaired) FSS (earth to space) (27.5-27.8285 GHz, 28,445-28,9485 GHz and 29,4525 - 29,5 GHz) - ESOMP	CEPT T/R 13-02 Annex C ECC/DEC(05)01 ECC/DEC(13)01 ECC/DEC/(15)04
28.5 - 29.1	FIXED FIXED-SATELLITE (earth to space) 5.523A, 5.539 MOBILE Earth Exploring-Satellite (earth to space) 5.541 5.540	FIXED (27,9405-28,4445 GHz paired with 28,9485-29,4525 GHz and 27,8285- 27,9405 unpaired) FSS (earth to space) (27.5-27.8285 GHz, 28,445-28,9485 GHz and 29,4525 - 29,5 GHz) - ESOMP	CEPT T/R 13-02 Annex C ECC/DEC(05)01 ECC/DEC(13)01 ECC/DEC/(15)04

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29.1 - 29.5	FIXED FIXED-SATELLITE (earth to space) 5.523C, 5.523E, 5.535A, 5.539, 5.541A MOBILE Earth Exploring-Satellite (earth to space) 5.541 5.540	FIXED (27,9405-28,4445 GHz paired with 28,9485-29,4525 GHz and 27,8285-27,9405 unpaired) FSS (earth to space) (27.5-27.8285 GHz, 28,445-28,9485 GHz and 29,4525 - 29,5 GHz) - ESOMP	CEPT T/R 13-02 Annex C ECC/DEC(05)01 ECC/DEC(13)01
29.5 - 29.9	FIXED-SATELLITE (earth to space) 5.539 5.484A 5.516B 5.5X 5.A15 Mobile-Satellite (earth to space) Earth Exploring-Satellite (earth to space) 5.541 5.540	- HEST up link - LEST up link FIXED-SATELLITE (earth to space) - ESOMP	ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)08 ECC/DEC/(13)01 ECC/DEC/(15)04
29.9 - 30	FIXED-SATELLITE (earth to space) 5.539 5.484A 5.516B 5.5X 5.A15 MOBILE-SATELLITE (earth to space) Earth Exploring-Satellite (earth to space) 5.541 5.525, 5.526, 5.527, 5.543, 5.538, 5.540	- HEST up link - LEST up link FIXED-SATELLITE (earth to space) - ESOMP	ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)08 ECC/DEC/(13)01 ECC/DEC/(15)04
30 - 31	FIXED-SATELLITE (earth to space) MOBILE-SATELLITE (earth to space) Standard Frequency and Time Signal-Satellite (space to earth) 5.338A		
31 - 31.3	FIXED MOBILE Standard Frequency and Time Signal-Satellite (space to earth) Space Research 5.544 5.149, 5.338A		ECC/REC/(02)02
31.3 - 31.5	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		ECC/REC(04)06
31.5 - 31.8	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149		ECC/REC(04)06
31.8 - 32	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (deep sp.) (sp. to earth) 5.547, 5.548		ERC/REC(01)02
32 - 32.3	RADIONAVIGATION FIXED 5.547A SPACE RESEARCH (deep sp.) (sp. to earth) 5.547, 5.548		ERC/REC(01)02

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
32.3 - 33	RADIONAVIGATION FIXED 5.547A INTER-SATELLITE 5.547, 5.548		ERC/REC(01)02
33 - 33.4	RADIONAVIGATION FIXED 5.547A 5.547		ERC/REC(01)02
33.4 - 34.2	RADIOLOCATION		
34.2 - 34.7	RADIOLOCATION SPACE RESEARCH (deep sp.) (earth to sp.)		
34.7 - 35.2	RADIOLOCATION Space Research		
35.2 - 35.5	METEOROLOGICAL AIDS RADIOLOCATION		
35.5 - 36	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active)		
36 - 37	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149		
37 - 37.5	FIXED MOBILE SPACE RESEARCH (space to earth) 5.547	FIXED (37-38.178 paired with 38.318-39.5)	CEPT T/R 12-01 Low and medium capacity links
37.5 - 38	FIXED FIXED-SATELLITE (space to earth) MOBILE SPACE RESEARCH (space to earth) Earth Exploration-Satellite (space to earth) 5.547	FIXED (37-38.178 paired with 38.318-39.5)	CEPT T/R 12-01 Low and medium capacity links ECC/DEC/(00)02
38 - 39.5	FIXED FIXED-SATELLITE (space to earth) MOBILE Earth Exploration-Satellite (space to earth) 5.547	FIXED (37-38.178 paired with 38.318-39.5)	CEPT T/R 12-01 Low and medium capacity links ECC/DEC/(00)02

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
39.5 - 40	FIXED FIXED-SATELLITE (space to earth) MOBILE MOBILE-SATELLITE (space to earth) Earth Exploration-Satellite (space to earth) 5.547		ECC/DEC/(00)02
40 - 40.5	EARTH EXPLORATION-SATELLITE (earth to space) FIXED MOBILE FIXED-SATELLITE (space to earth) MOBILE-SATELLITE (space to earth) SPACE RESEARCH (earth to space) Earth Exploration-Satellite (space to earth)		ECC/DEC/(00)02
40.5 - 42.5	BROADCASTING FIXED FIXED-SATELLITE (space to earth) BROADCASTING-SATELLITE Mobile 5.547	BROADCASTING MWS - Multimedia Wireless System FIXED	ECC/REC 01-04 CEPT T/R 52-01 ERC/DEC/(99)15 ECC/DEC (0204)
42.5 - 43.5	FIXED FIXED-SATELLITE (earth to space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149, 5.547	MWS - Multimedia Wireless System	ERC/DEC/(99)15 ECC/REC 01-04
43.5 - 47	MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554		
47 - 47.2	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	
47.2 – 47.5	FIXED FIXED-SATELLITE (earth to space) 5.552 MOBILE 5.149, 5.340, 5.552A, 5.555, 5.338A	FIXED	ERC/REC 12-10 ECC/DEC/(05)08
47.5 – 47.9	FIXED FIXED-SATELLITE (earth to space) 5.552 (space to Earth) 5.516B 5.554A MOBILE		
47.9 – 48.2	FIXED FIXED-SATELLITE (earth to space) 5.552 MOBILE 5.552A		
48.2 – 48.54	FIXED FIXED-SATELLITE (earth to space) 5.552 (space to Earth) 5.516B 5.554A 5.555A MOBILE		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
48.54 – 49.44	FIXED FIXED-SATELLITE (earth to space) 5.552 MOBILE 5.149 5.340 5.555		
49.44 – 50.2	FIXED FIXED-SATELLITE (earth to space) 5.552 (space to Earth) 5.516B MOBILE		
50.2 - 50.4	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340		
50.4 - 51.4	FIXED FIXED-SATELLITE (earth to space) 5.552 MOBILE Mobile-Satellite (earth to space)		
51.4 - 52.6	FIXED MOBILE 5.556, 5.547, 5.338A	FIXED	ERC/REC 12-11
52.6 - 54.25	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340, 5.556		
54.25 - 55.78	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)		
55.78 – 58.2	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A, MOBILE 5.558 SPACE RESEARCH (passive) 5.557, 5.547	FIXED SRD – Short Range Devices (Non-specific SRD 57-64 GHz) (Radiodetermin Devices 57-64 GHz) (Wideband data systems 57-66 GHz)	ERC/REC 12-12 ERC/REC 12-09 CEPT T/R 70-03 Commison Dec 2006/771/EC + amendments
58.2 - 59	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.556, 5.547	FIXED SRD – Short Range Devices (Non-specific SRD 57-64 GHz) (Radiodetermin Devices 57-64 GHz) (Wideband data systems 57-66 GHz) SRD – Wideband data systems (57-66 GHz)	ERC/REC 12-09 CEPT T/R 70-03 Commison Dec 2006/771/EC + amendments
59 - 59.3	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) RADIOLOCATION 5.559	SRD – Short Range Devices (Non-specific SRD 57-64 GHz) (Radiodetermin Devices 57-64 GHz) (Wideband data systems 57-66 GHz) SRD – Wideband data systems (57-66 GHz)	CEPT T/R 70-03 Commison Dec 2006/771/EC + amendments

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
59.3 - 64	FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559 5.138	SRD – Short Range Devices (Non-specific SRD 57-64 GHz) (Radiodetermin Devices 57-64 GHz) (Wideband data systems 57-66 GHz) (Transp & Telematics Dev 63-64 GHz) (ITS 63-64 GHz)	CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments ECC/DEC/(04)10 2005/50/EC 2011/485/EC ECC/DEC/(09)01
64 - 65	FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.556, 5.547	FIXED SRD- Short Range Devices (Wideband data systems 57-66 GHz)	ECC/REC/(05)02 CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
65 - 66	EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547	FIXED SRD- Short Range Devices (Wideband data systems 57-66 GHz)	ECC/REC/(05)02 CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
66 - 71	MOBILE 5.553, 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE 5.554		
71 - 74	FIXED FIXED-SATELLITE (space to earth) MOBILE MOBILE-SATELLITE (space to earth)	FIXED	ECC/REC/(05)07
74 - 76	FIXED FIXED-SATELLITE (space to earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space Research (space to earth) 5.561	FIXED SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz)	ECC/REC/(05)07 CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
76 – 77.5	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite Space Research (space to earth) 5.149	SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz) SRD – Short Range Devices (Transport & Traffic Telematics 76-77 GHz) (Automotive SRR 77-81 GHz) Amateur Amateur-Satellite	ERC/REC 70-03 ECC/DEC/(04)03 2004/545/EC CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
77.5 - 78	AMATEUR AMATEUR-SATELLITE RADIOLOCATION 5.A118 Radio Astronomy Space Research (space to earth) 5.149	AMATEUR AMATEUR-SATELLITE SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz) 77-81 GHz Autom. Short Range Radar	ECC/DEC/(04)03 2004/545/EC CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
78 - 79	RADIOLOCATION Amateur Amateur-Satellite Radio Astronomy Space Research (space to earth) 5.149, 5.560	Amateur Amateur-Satellite 77-81 GHz Autom. Short Range Radar SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz)	ECC/DEC/(04)03 2004/545/EC CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
79 – 81	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite Space Research (space to earth) 5.149	Amateur Amateur-Satellite 77-81 GHz Autom. Short Range Radar SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz)	ECC/DEC/(04)03 2004/545/EC CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
81 - 84	FIXED 5.338A FIXED-SATELLITE (earth to space) MOBILE MOBILE-SATELLITE (earth to space) RADIO ASTRONOMY Space Research (space to earth) 5.149, 5.561A	FIXED SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz)	ECC/REC/(05)07 CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
84 - 86	FIXED 5.338A FIXED-SATELLITE (earth to space) 5.561A MOBILE RADIO ASTRONOMY 5.149	FIXED SRD – Short Range Devices (Tank Level Probing Radar 75-85 GHz)	ECC/REC/(05)07 CEPT T/R 70-03 Commision Dec 2006/771/EC + amendments
86 - 92	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
92 - 94	FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
94 - 94.1	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio Astronomy 5.562, 5.562A		
94.1 - 95	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
95 - 100	FIXED MOBILE RADIONAVIGATION RADIONAVIGATION-SATELLITE RADIO ASTRONOMY RADIOLOCATION 5.149, 5.554		
100 - 102	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340, 5.341		
102 - 105	FIXED MOBILE RADIO ASTRONOMY 5.149, 5.341		
105 –109.5	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149, 5.341		
109.5 – 111.8	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340, 5.341		
111.8 – 114.25	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149, 5.341		
114,25 – 116	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340, 5.341		
116 – 119,98	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.341		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
119,98 – 122.25	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.562C SPACE RESEARCH (passive) 5.138, 5.341	SRD – Short Range Devices (Non-specific devices 122-123 GHz)	CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
122.25 – 123	FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138	Amateur SRD – Short Range Devices (Non-specific devices 122-123 GHz)	CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
123 – 130	FIXED-SATELLITE (SPACE TO EARTH) MOBILE-SATELLITE (SPACE TO EARTH) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.562D 5.149, 5.554		
130 – 134	FIXED INTER-SATELLITE MOBILE 5.558 EARTH EXPLORATION-SATELLITE (active) 5.562E RADIO ASTRONOMY 5.149, 5.562A		
134 – 136	AMATEUR AMATEUR-SATELLITE Radio Astronomy	AMATEUR AMATEUR-SATELLITE	
136 – 141	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149	Amateur Amateur-Satellite	
141 – 148.5	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
148.5 – 151.5	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
151.5 – 155.5	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
155.5 – 158.5	EARTH EXPLORATION-SATELLITE (passive) S5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149, 5.562G		
158.5 – 164	FIXED FIXED-SATELLITE (space to earth) MOBILE MOBILE-SATELLITE (space to earth)		
164 – 167	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
167 – 174.5	FIXED FIXED-SATELLITE (space to earth) MOBILE S5.558 INTER-SATELLITE 5.149, 5.562D		
174.5 – 174.8	FIXED MOBILE 5.558 INTER-SATELLITE		
174.8 – 182	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)		
182 - 185	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
185 - 190	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)		
190 – 191.8	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340		
191.8 - 200	FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149, 5.341 5.554		
200 - 209	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340, 5.341, 5.563A		
209 – 217	FIXED FIXED-SATELLITE (earth to space) MOBILE RADIO ASTRONOMY 5.149, 5.341		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
217 - 226	FIXED FIXED-SATELLITE (earth to space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149, 5.341		
226 – 231.5	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
231.5 - 232	FIXED MOBILE Radiolocation		
232 – 235	FIXED FIXED-SATELLITE (space to earth) MOBILE Radiolocation		
235 – 238	EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space to earth) SPACE RESEARCH (passive) 5.563A, 5.563B		
238 – 240	FIXED FIXED-SATELLITE (space to earth) MOBILE RADIONAVIGATION RADIONAVIGATION-SATELLITE RADIOLOCATION		
240 – 241	FIXED MOBILE RADIOLOCATION		
241 – 248	RADIOLOCATION RADIOASTRONOMY Amateur Amateur-Satellite 5.138, 5.149	Amateur Amateur-Satellite SRD – Short Range Devices (Non-specific devices 244-246 GHz)	CEPT T/R 70—03 Commision Dec 2006/771/EC + amendments
248 - 250	AMATEUR AMATEUR-SATELLITE Radio Astronomy 5.149	AMATEUR AMATEUR-SATELLITE	
250 - 252	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) RADIO ASTRONOMY 5.340, 5.563A		

Frequency band (GHz)	Allocation RR Region 1	National use	Notes
252 - 265	FIXED MOBILE MOBILE-SATELLITE (earth to space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149, 5.554		
265 - 275	FIXED FIXED-SATELLITE (earth to space) MOBILE RADIO ASTRONOMY 5.149, 5.563A		
275 - 3000	(not allocated) 5.565		