

Kmitočty kanálů



Mikrovlnný spoj RAY2

fw 2.1.x.x
14. prosince 2017
version 1.1

Obsah

1. Struktura tabulek jmenovitých frekvencí	5
2. Jmenovité kmitočty	6
2.1. RAY2-10 A, pásmo 10.30 – 10.59 GHz	6
2.2. RAY2-10 B, pásmo 10.15 – 10.65 GHz	6
2.3. RAY2-11, duplex 490 MHz	11
2.4. RAY2-11, duplex 530 MHz	17
2.5. RAY2-11, duplex 490 MHz, FCC	22
2.6. RAY2-17	26
2.7. RAY2-18, duplex 1010, 1008 MHz	32
2.8. RAY2-18, duplex 1560 MHz, FCC	45
2.9. RAY2-24, pásmo 24.00-24.25 GHz	48
2.10. RAY2-24, pásmo 24.05-24.25 GHz	55
2.11. RAY2-24, pásmo 24.05-24.25 GHz, FCC	64
2.12. RAY2-24, pásmo 24.00-24.15 GHz	69
A. Přehled revizí	74

1. Struktura tabulek jmenovitých frekvencí

RAY11 – xA , RAY11 – xB ¹⁾			TX channel nominal frequencies Band 10.7 – 11.7 GHz, ³⁾ duplex frequency 490 MHz ⁴⁾		
Bandwidth: 56 MHz (CS 80) ²⁾			CEPT 12-06 Annex C ⁵⁾		
A sub-band ⁶⁾ (Freq.table: rcinfo11_A_490, rcinfo11_A_490_n) ⁷⁾			B sub-band (Freq.table: rcinfo11_B_490, rcinfo11_B_490_n)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1 ⁸⁾	10755 ⁹⁾	11245 ¹⁰⁾	7	10995	11485
2	10795	11285	8	11035	11525
3	10835	11325	9	11075	11565
4	10875	11365	10	11115	11605
5	10915	11405	11	11155	11645

ver. 1.0 ¹¹⁾

- 1) Název mikrovlnné jednotky, ke které se tabulka vztahuje. Písmeno "x" je použito jako zástupný znak pro "L"-Lower band a "U"-Upper band.
Příklad: "RAY11-xA" platí pro jednotky "RAY11-LA" a "RAY11-UA". Více viz Uživatelský manuál, Objednací kódy¹⁾ jednotlivých variant mikrovlnných spojů.
POZNÁMKA: Provedení jednotek jako dvou-portových (např. RAY11-LA-2), nemá na volbu frekvenčních tabulek žádný vliv.
- 2) Název konkrétní sady kanálů (jmenovitých frekvencí), jak je označena v konfiguračním rozhraní mikrovlnné jednotky (viz Konfigurace, položka "Bandwidth [MHz]"²⁾). Název především určuje zvolenou šířku pásma. V případě, že pro danou šířku pásma existuje více variant rozdělení celého pásma na jednotlivé kanály, je v názvu uveden další rozlišující text. Příklad:
 - Tabulka s parametrem Bandwidth "40 MHz (ITU)" udává rozdělení kanálů pro šířku pásma 40 MHz dle doporučení ITU-R F.387 rec.1.2, viz dále poznámka č. 5).
 - Tabulka s parametrem Bandwidth "40 MHz (ACMA)" udává rozdělení kanálů pro šířku pásma 40 MHz dle doporučení ITU-R F.387 rec. 1.1 (b), které se používá např. v Austrálii.
- 3) Celý rozsah frekvenčního pásma (přibližně).
- 4) Duplex spacing - duplexní odstup mezi jednotlivými páry Lower a Upper kanálů.
Volitelně: Minimální a maximální duplexní odstup použitý v tabulce frekvencí.
- 5) Označení doporučení ze kterého vychází dané rozdělení kanálů.
- 6) Označení sub pásma ve kterém jsou dané kanály k dispozici.
- 7) Název "frekvenční tabulky" ve které se nachází popisovaná sada kanálů, viz Konfigurace, "Frequency tables"³⁾.
- 8) Číslo kanálu, jak je označen v konfiguračním rozhraní mikrovlnné jednotky, viz "TX channel"⁴⁾.
- 9) Frekvence TX kanálu pro vysílání v dolní (Lower) části pásma.
- 10) Frekvence TX kanálu pro vysílání v horní (Upper) části pásma.
- 11) Číslo verze tabulky.

¹⁾ http://www.racom.eu/cz/products/m/ray2/product.html#obj_kod²⁾ <http://www.racom.eu/cz/products/m/ray2/config.html#status-radio>³⁾ <http://www.racom.eu/cz/products/m/ray2/config.html#switch-adapt>⁴⁾ <http://www.racom.eu/cz/products/m/ray2/config.html#link-radio>

2. Jmenovité kmitočty

2.1. RAY2-10 A, pásmo 10.30 – 10.59 GHz

2.2. RAY2-10 B, pásmo 10.15 – 10.65 GHz

RAY2-10 - xB			TX channel nominal frequencies		
Bandwidth: 1.75 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10151.375	10501.375	43	10224.875	10574.875
2	10153.125	10503.125	44	10226.625	10576.625
3	10154.875	10504.875	45	10228.375	10578.375
4	10156.625	10506.625	46	10230.125	10580.125
5	10158.375	10508.375	47	10231.875	10581.875
6	10160.125	10510.125	48	10233.625	10583.625
7	10161.875	10511.875	49	10235.375	10585.375
8	10163.625	10513.625	50	10237.125	10587.125
9	10165.375	10515.375	51	10238.875	10588.875
10	10167.125	10517.125	52	10240.625	10590.625
11	10168.875	10518.875	53	10242.375	10592.375
12	10170.625	10520.625	54	10244.125	10594.125
13	10172.375	10522.375	55	10245.875	10595.875
14	10174.125	10524.125	56	10247.625	10597.625
15	10175.875	10525.875	57	10249.375	10599.375
16	10177.625	10527.625	58	10251.125	10601.125
17	10179.375	10529.375	59	10252.875	10602.875
18	10181.125	10531.125	60	10254.625	10604.625
19	10182.875	10532.875	61	10256.375	10606.375
20	10184.625	10534.625	62	10258.125	10608.125
21	10186.375	10536.375	63	10259.875	10609.875
22	10188.125	10538.125	64	10261.625	10611.625
23	10189.875	10539.875	65	10263.375	10613.375
24	10191.625	10541.625	66	10265.125	10615.125
25	10193.375	10543.375	67	10266.875	10616.875
26	10195.125	10545.125	68	10268.625	10618.625
27	10196.875	10546.875	69	10270.375	10620.375
28	10198.625	10548.625	70	10272.125	10622.125
29	10200.375	10550.375	71	10273.875	10623.875
30	10202.125	10552.125	72	10275.625	10625.625
31	10203.875	10553.875	73	10277.375	10627.375
32	10205.625	10555.625	74	10279.125	10629.125
33	10207.375	10557.375	75	10280.875	10630.875
34	10209.125	10559.125	76	10282.625	10632.625
35	10210.875	10560.875	77	10284.375	10634.375
36	10212.625	10562.625	78	10286.125	10636.125
37	10214.375	10564.375	79	10287.875	10637.875
38	10216.125	10566.125	80	10289.625	10639.625
39	10217.875	10567.875	81	10291.375	10641.375
40	10219.625	10569.625	82	10293.125	10643.125
41	10221.375	10571.375	83	10294.875	10644.875
42	10223.125	10573.125	84	10296.625	10646.625

ver. 2.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 3.5 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
			CEPT/ERC/REC 12-05 E		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10152.25	10502.25	22	10225.75	10575.75
2	10155.75	10505.75	23	10229.25	10579.25
3	10159.25	10509.25	24	10232.75	10582.75
4	10162.75	10512.75	25	10236.25	10586.25
5	10166.25	10516.25	26	10239.75	10589.75
6	10169.75	10519.75	27	10243.25	10593.25
7	10173.25	10523.25	28	10246.75	10596.75
8	10176.75	10526.75	29	10250.25	10600.25
9	10180.25	10530.25	30	10253.75	10603.75
10	10183.75	10533.75	31	10257.25	10607.25
11	10187.25	10537.25	32	10260.75	10610.75
12	10190.75	10540.75	33	10264.25	10614.25
13	10194.25	10544.25	34	10267.75	10617.75
14	10197.75	10547.75	35	10271.25	10621.25
15	10201.25	10551.25	36	10274.75	10624.75
16	10204.75	10554.75	37	10278.25	10628.25
17	10208.25	10558.25	38	10281.75	10631.75
18	10211.75	10561.75	39	10285.25	10635.25
19	10215.25	10565.25	40	10288.75	10638.75
20	10218.75	10568.75	41	10292.25	10642.25
21	10222.25	10572.25	42	10295.75	10645.75

ver. 2.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 7 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
			CEPT/ERC/REC 12-05 E		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10157.5	10507.5	11	10227.5	10577.5
2	10164.5	10514.5	12	10234.5	10584.5
3	10171.5	10521.5	13	10241.5	10591.5
4	10178.5	10528.5	14	10248.5	10598.5
5	10185.5	10535.5	15	10255.5	10605.5
6	10192.5	10542.5	16	10262.5	10612.5
7	10199.5	10549.5	17	10269.5	10619.5
8	10206.5	10556.5	18	10276.5	10626.5
9	10213.5	10563.5	19	10283.5	10633.5
10	10220.5	10570.5	20	10290.5	10640.5

ver. 2.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 14 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
			CEPT/ERC/REC 12-05 E + 7 MHz based channels		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10161	10511	6	10231	10581
1c	10168	10518	6c	10238	10588
2	10175	10525	7	10245	10595
2c	10182	10532	7c	10252	10602
3	10189	10539	8	10259	10609
3c	10196	10546	8c	10266	10616
4	10203	10553	9	10273	10623
4c	10210	10560	9c	10280	10630
5	10217	10567	10	10287	10637
5c	10224	10574			

ver. 2.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 20 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
			CEPT/ERC/REC 12-05 E		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10175	10525	4	10235	10585
2	10195	10545	5	10255	10605
3	10215	10565	6	10275	10625

ver. 1.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 28 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
			CEPT/ERC/REC 12-05 E		
B sub-band			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10168	10518	4	10252	10602
2	10196	10546	5	10280	10630
3	10224	10574			

ver. 2.0

RAy2-10 - xB			TX channel nominal frequencies		
Bandwidth: 56 MHz			Band 10.15 – 10.65 GHz, duplex spacing 350 MHz		
B sub-band			CEPT/ERC/REC 12-05 E		
			(Freq.table: rcinfo10_B_default:7)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10182	10532	3	10238	10588
2	10210	10560	4	10266	10616

ver. 2.0

2.3. RAY2-11, duplex 490 MHz

RAY2-11 - xA, RAY2-11 - xB						TX channel nominal frequencies					
Bandwidth: 1.75 MHz						Band 10.7 – 11.7 GHz, duplex spacing 490 MHz					
(Freq.table: rcinfo11_A_490_default:17)						Channel arrangements based on 28 MHz channels					
A sub-band			B sub-band			(Freq.table: rcinfo11_B_490_default:17)					
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10709.875	11199.875	76	10841.125	11331.125	131	10937.375	11427.375	206	11068.625	11558.625
2	10711.625	11201.625	77	10842.875	11332.875	132	10939.125	11429.125	207	11070.375	11560.375
3	10713.375	11203.375	78	10844.625	11334.625	133	10940.875	11430.875	208	11072.125	11562.125
4	10715.125	11205.125	79	10846.375	11336.375	134	10942.625	11432.625	209	11073.875	11563.875
5	10716.875	11206.875	80	10848.125	11338.125	135	10944.375	11434.375	210	11075.625	11565.625
6	10718.625	11208.625	81	10849.875	11339.875	136	10946.125	11436.125	211	11077.375	11567.375
7	10720.375	11210.375	82	10851.625	11341.625	137	10947.875	11437.875	212	11079.125	11569.125
8	10722.125	11212.125	83	10853.375	11343.375	138	10949.625	11439.625	213	11080.875	11570.875
9	10723.875	11213.875	84	10855.125	11345.125	139	10951.375	11441.375	214	11082.625	11572.625
10	10725.625	11215.625	85	10856.875	11346.875	140	10953.125	11443.125	215	11084.375	11574.375
11	10727.375	11217.375	86	10858.625	11348.625	141	10954.875	11444.875	216	11086.125	11576.125
12	10729.125	11219.125	87	10860.375	11350.375	142	10956.625	11446.625	217	11087.875	11577.875
13	10730.875	11220.875	88	10862.125	11352.125	143	10958.375	11448.375	218	11089.625	11579.625
14	10732.625	11222.625	89	10863.875	11353.875	144	10960.125	11450.125	219	11091.375	11581.375
15	10734.375	11224.375	90	10865.625	11355.625	145	10961.875	11451.875	220	11093.125	11583.125
16	10736.125	11226.125	91	10867.375	11357.375	146	10963.625	11453.625	221	11094.875	11584.875
17	10737.875	11227.875	92	10869.125	11359.125	147	10965.375	11455.375	222	11096.625	11586.625
18	10739.625	11229.625	93	10870.875	11360.875	148	10967.125	11457.125	223	11098.375	11588.375
19	10741.375	11231.375	94	10872.625	11362.625	149	10968.875	11458.875	224	11100.125	11590.125
20	10743.125	11233.125	95	10874.375	11364.375	150	10970.625	11460.625	225	11101.875	11591.875
21	10744.875	11234.875	96	10876.125	11366.125	151	10972.375	11462.375	226	11103.625	11593.625
22	10746.625	11236.625	97	10877.875	11367.875	152	10974.125	11464.125	227	11105.375	11595.375
23	10748.375	11238.375	98	10879.625	11369.625	153	10975.875	11465.875	228	11107.125	11597.125
24	10750.125	11240.125	99	10881.375	11371.375	154	10977.625	11467.625	229	11108.875	11598.875
25	10751.875	11241.875	100	10883.125	11373.125	155	10979.375	11469.375	230	11110.625	11600.625
26	10753.625	11243.625	101	10884.875	11374.875	156	10981.125	11471.125	231	11112.375	11602.375
27	10755.375	11245.375	102	10886.625	11376.625	157	10982.875	11472.875	232	11114.125	11604.125
28	10757.125	11247.125	103	10888.375	11378.375	158	10984.625	11474.625	233	11115.875	11605.875
29	10758.875	11248.875	104	10890.125	11380.125	159	10986.375	11476.375	234	11117.625	11607.625
30	10760.625	11250.625	105	10891.875	11381.875	160	10988.125	11478.125	235	11119.375	11609.375
31	10762.375	11252.375	106	10893.625	11383.625	161	10989.875	11479.875	236	11121.125	11611.125
32	10764.125	11254.125	107	10895.375	11385.375	162	10991.625	11481.625	237	11122.875	11612.875
33	10765.875	11255.875	108	10897.125	11387.125	163	10993.375	11483.375	238	11124.625	11614.625
34	10767.625	11257.625	109	10898.875	11388.875	164	10995.125	11485.125	239	11126.375	11616.375
35	10769.375	11259.375	110	10900.625	11390.625	165	10996.875	11486.875	240	11128.125	11618.125
36	10771.125	11261.125	111	10902.375	11392.375	166	10998.625	11488.625	241	11129.875	11619.875
37	10772.875	11262.875	112	10904.125	11394.125	167	11000.375	11490.375	242	11131.625	11621.625
38	10774.625	11264.625	113	10905.875	11395.875	168	11002.125	11492.125	243	11133.375	11623.375
39	10776.375	11266.375	114	10907.625	11397.625	169	11003.875	11493.875	244	11135.125	11625.125
40	10778.125	11268.125	115	10909.375	11399.375	170	11005.625	11495.625	245	11136.875	11626.875
41	10779.875	11269.875	116	10911.125	11401.125	171	11007.375	11497.375	246	11138.625	11628.625
42	10781.625	11271.625	117	10912.875	11402.875	172	11009.125	11499.125	247	11140.375	11630.375
43	10783.375	11273.375	118	10914.625	11404.625	173	11010.875	11500.875	248	11142.125	11632.125
44	10785.125	11275.125	119	10916.375	11406.375	174	11012.625	11502.625	249	11143.875	11633.875
45	10786.875	11276.875	120	10918.125	11408.125	175	11014.375	11504.375	250	11145.625	11635.625
46	10788.625	11278.625	121	10919.875	11409.875	176	11016.125	11506.125	251	11147.375	11637.375
47	10790.375	11280.375	122	10921.625	11411.625	177	11017.875	11507.875	252	11149.125	11639.125
48	10792.125	11282.125	123	10923.375	11413.375	178	11019.625	11509.625	253	11150.875	11640.875
49	10793.875	11283.875	124	10925.125	11415.125	179	11021.375	11511.375	254	11152.625	11642.625
50	10795.625	11285.625	125	10926.875	11416.875	180	11023.125	11513.125	255	11154.375	11644.375
51	10797.375	11287.375	126	10928.625	11418.625	181	11024.875	11514.875	256	11156.125	11646.125
52	10799.125	11289.125	127	10930.375	11420.375	182	11026.625	11516.625	257	11157.875	11647.875
53	10800.875	11290.875	128	10932.125	11422.125	183	11028.375	11518.375	258	11159.625	11649.625
54	10802.625	11292.625	129	10933.875	11423.875	184	11030.125	11520.125	259	11161.375	11651.375
55	10804.375	11294.375	130	10935.625	11425.625	185	11031.875	11521.875	260	11163.125	11653.125
56	10806.125	11296.125	131	10937.375	11427.375	186	11033.625	11523.625	261	11164.875	11654.875
57	10807.875	11297.875	132	10939.125	11429.125	187	11035.375	11525.375	262	11166.625	11656.625
58	10809.625	11299.625	133	10940.875	11430.875	188	11037.125	11527.125	263	11168.375	11658.375
59	10811.375	11301.375	134	10942.625	11432.625	189	11038.875	11528.875	264	11170.125	11660.125
60	10813.125	11303.125	135	10944.375	11434.375	190	11040.625	11530.625	265	11171.875	11661.875
61	10814.875	11304.875	136	10946.125	11436.125	191	11042.375	11532.375	266	11173.625	11663.625
62	10816.625	11306.625	137	10947.875	11437.875	192	11044.125	11534.125	267	11175.375	11665.375
63	10818.375	11308.375	138	10949.625	11439.625	193	11045.875	11535.875	268	11177.125	11667.125
64	10820.125	11310.125	139	10951.375	11441.375	194	11047.625	11537.625	269	11178.875	11668.875
65	10821.875	11311.875	140	10953.125	11443.125	195	11049.375	11539.375	270	11180.625	11670.625
66	10823.625	11313.625	141	10954.875	11444.875	196	11051.125	11541.125	271	11182.375	11672.375
67	10825.375	11315.375	142	10956.625	11446.625	197	11052.875	11542.875	272	11184.125	11674.125
68	10827.125	11317.125	143	10958.375	11448.375	198	11054.625	11544.625			
69	10828.875	11318.875	144	10960.125	11450.125	199	11056.375	11546.375			
70	10830.625	11320.625	145	10961.875	11451.875	200	11058.125	11548.125			
71	10832.375	11322.375	146	10963.625	11453.625	201	11059.875	11549.875			
72	10834.125	11324.125	147	10965.375	11455.375	202	11061.625	11551.625			
73	10835.875	11325.875	148	10967.125	11457.125	203	11063.375	11553.375			
74	10837.625	11327.625	149	10968.875	11458.875	204	11065.125	11555.125			
75	10839.375	11329.375				205	11066.875	11556.875			

ver. 2.2

RAY2-11 - xA, RAY2-11 - xB						TX channel nominal frequencies					
Bandwidth: 3.5 MHz						Band 10.7 – 11.7 GHz, duplex spacing 490 MHz					
Channel arrangements based on 28 MHz channels											
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10710.75	11200.75	38	10840.25	11330.25	66	10938.25	11428.25	103	11067.75	11557.75
2	10714.25	11204.25	39	10843.75	11333.75	67	10941.75	11431.75	104	11071.25	11561.25
3	10717.75	11207.75	40	10847.25	11337.25	68	10945.25	11435.25	105	11074.75	11564.75
4	10721.25	11211.25	41	10850.75	11340.75	69	10948.75	11438.75	106	11078.25	11568.25
5	10724.75	11214.75	42	10854.25	11344.25	70	10952.25	11442.25	107	11081.75	11571.75
6	10728.25	11218.25	43	10857.75	11347.75	71	10955.75	11445.75	108	11085.25	11575.25
7	10731.75	11221.75	44	10861.25	11351.25	72	10959.25	11449.25	109	11088.75	11578.75
8	10735.25	11225.25	45	10864.75	11354.75	73	10962.75	11452.75	110	11092.25	11582.25
9	10738.75	11228.75	46	10868.25	11358.25	74	10966.25	11456.25	111	11095.75	11585.75
10	10742.25	11232.25	47	10871.75	11361.75	75	10969.75	11459.75	112	11099.25	11589.25
11	10745.75	11235.75	48	10875.25	11365.25	76	10973.25	11463.25	113	11102.75	11592.75
12	10749.25	11239.25	49	10878.75	11368.75	77	10976.75	11466.75	114	11106.25	11596.25
13	10752.75	11242.75	50	10882.25	11372.25	78	10980.25	11470.25	115	11109.75	11599.75
14	10756.25	11246.25	51	10885.75	11375.75	79	10983.75	11473.75	116	11113.25	11603.25
15	10759.75	11249.75	52	10889.25	11379.25	80	10987.25	11477.25	117	11116.75	11606.75
16	10763.25	11253.25	53	10892.75	11382.75	81	10990.75	11480.75	118	11120.25	11610.25
17	10766.75	11256.75	54	10896.25	11386.25	82	10994.25	11484.25	119	11123.75	11613.75
18	10770.25	11260.25	55	10899.75	11389.75	83	10997.75	11487.75	120	11127.25	11617.25
19	10773.75	11263.75	56	10903.25	11393.25	84	11001.25	11491.25	121	11130.75	11620.75
20	10777.25	11267.25	57	10906.75	11396.75	85	11004.75	11494.75	122	11134.25	11624.25
21	10780.75	11270.75	58	10910.25	11400.25	86	11008.25	11498.25	123	11137.75	11627.75
22	10784.25	11274.25	59	10913.75	11403.75	87	11011.75	11501.75	124	11141.25	11631.25
23	10787.75	11277.75	60	10917.25	11407.25	88	11015.25	11505.25	125	11144.75	11634.75
24	10791.25	11281.25	61	10920.75	11410.75	89	11018.75	11508.75	126	11148.25	11638.25
25	10794.75	11284.75	62	10924.25	11414.25	90	11022.25	11512.25	127	11151.75	11641.75
26	10798.25	11288.25	63	10927.75	11417.75	91	11025.75	11515.75	128	11155.25	11645.25
27	10801.75	11291.75	64	10931.25	11421.25	92	11029.25	11519.25	129	11158.75	11648.75
28	10805.25	11295.25	65	10934.75	11424.75	93	11032.75	11522.75	130	11162.25	11652.25
29	10808.75	11298.75	66	10938.25	11428.25	94	11036.25	11526.25	131	11165.75	11655.75
30	10812.25	11302.25	67	10941.75	11431.75	95	11039.75	11529.75	132	11169.25	11659.25
31	10815.75	11305.75	68	10945.25	11435.25	96	11043.25	11533.25	133	11172.75	11662.75
32	10819.25	11309.25	69	10948.75	11438.75	97	11046.75	11536.75	134	11176.25	11666.25
33	10822.75	11312.75	70	10952.25	11442.25	98	11050.25	11540.25	135	11179.75	11669.75
34	10826.25	11316.25	71	10955.75	11445.75	99	11053.75	11543.75	136	11183.25	11673.25
35	10829.75	11319.75	72	10959.25	11449.25	100	11057.25	11547.25			
36	10833.25	11323.25	73	10962.75	11452.75	101	11060.75	11550.75			
37	10836.75	11326.75	74	10966.25	11456.25	102	11064.25	11554.25			

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 7 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
Channel arrangements based on 28 MHz channels					
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10712.5	11202.5	34	10943.5	11433.5
2	10719.5	11209.5	35	10950.5	11440.5
3	10726.5	11216.5	36	10957.5	11447.5
4	10733.5	11223.5	37	10964.5	11454.5
5	10740.5	11230.5	38	10971.5	11461.5
6	10747.5	11237.5	39	10978.5	11468.5
7	10754.5	11244.5	40	10985.5	11475.5
8	10761.5	11251.5	41	10992.5	11482.5
9	10768.5	11258.5	42	10999.5	11489.5
10	10775.5	11265.5	43	11006.5	11496.5
11	10782.5	11272.5	44	11013.5	11503.5
12	10789.5	11279.5	45	11020.5	11510.5
13	10796.5	11286.5	46	11027.5	11517.5
14	10803.5	11293.5	47	11034.5	11524.5
15	10810.5	11300.5	48	11041.5	11531.5
16	10817.5	11307.5	49	11048.5	11538.5
17	10824.5	11314.5	50	11055.5	11545.5
18	10831.5	11321.5	51	11062.5	11552.5
19	10838.5	11328.5	52	11069.5	11559.5
20	10845.5	11335.5	53	11076.5	11566.5
21	10852.5	11342.5	54	11083.5	11573.5
22	10859.5	11349.5	55	11090.5	11580.5
24	10873.5	11363.5	57	11104.5	11594.5
25	10880.5	11370.5	58	11111.5	11601.5
26	10887.5	11377.5	59	11118.5	11608.5
27	10894.5	11384.5	60	11125.5	11615.5
28	10901.5	11391.5	61	11132.5	11622.5
29	10908.5	11398.5	62	11139.5	11629.5
30	10915.5	11405.5	63	11146.5	11636.5
31	10922.5	11412.5	64	11153.5	11643.5
32	10929.5	11419.5	65	11160.5	11650.5
33	10936.5	11426.5	66	11167.5	11657.5
34	10943.5	11433.5	67	11174.5	11664.5
35	10950.5	11440.5	68	11181.5	11671.5
36	10957.5	11447.5			
37	10964.5	11454.5			

ver. 2.3

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 490 MHz Channel arrangements based on 28 MHz channels		
Bandwidth: 14 MHz					
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10716	11206	18	10954	11444
2	10730	11220	19	10968	11458
3	10744	11234	20	10982	11472
4	10758	11248	21	10996	11486
5	10772	11262	22	11010	11500
6	10786	11276	23	11024	11514
7	10800	11290	24	11038	11528
8	10814	11304	25	11052	11542
9	10828	11318	26	11066	11556
10	10842	11332	27	11080	11570
11	10856	11346	28	11094	11584
12	10870	11360	29	11108	11598
13	10884	11374	30	11122	11612
14	10898	11388	31	11136	11626
15	10912	11402	32	11150	11640
16	10926	11416	33	11164	11654
17	10940	11430	34	11178	11668
18	10954	11444			

ver. 2.2

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 490 MHz CEPT Rec. 12-06, Annex B.2		
Bandwidth: 28 MHz					
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10723	11213	10	10975	11465
2	10751	11241	11	11003	11493
3	10779	11269	12	11031	11521
4	10807	11297	13	11059	11549
5	10835	11325	14	11087	11577
6	10863	11353	15	11115	11605
7	10891	11381	16	11143	11633
8	10919	11409	17	11171	11661
9	10947	11437			

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
Bandwidth: 30 MHz			IC		
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10725	11215	9	10965	11455
2	10755	11245	10	10995	11485
3	10785	11275	11	11025	11515
4	10815	11305	12	11055	11545
5	10845	11335	13	11085	11575
6	10875	11365	14	11115	11605
7	10905	11395	15	11145	11635
8	10935	11425	16	11175	11665

ver. 1.1

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
Bandwidth: 40 MHz (CEPT)			CEPT 12-06 Annex B.1, ITU-R F.387 rec.1.2		
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10735	11225	7	10975	11465
2	10775	11265	8	11015	11505
3	10815	11305	9	11055	11545
4	10855	11345	10	11095	11585
5	10895	11385	11	11135	11625
6	10935	11425	12	11175	11665

ver. 1.3

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
Bandwidth: 40 MHz (ACMA)			ACMA		
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10715	11205	7	10955	11445
2	10755	11245	8	10995	11485
3	10795	11285	9	11035	11525
4	10835	11325	10	11075	11565
5	10875	11365	11	11115	11605
6	10915	11405	12	11155	11645

ver. 1.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 56 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
CEPT 12-06, Annex C					
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10737	11227	10	10989	11479
2	10765	11255	11	11017	11507
3	10793	11283	12	11045	11535
4	10821	11311	13	11073	11563
5	10849	11339	14	11101	11591
6	10877	11367	15	11129	11619
7	10905	11395	16	11157	11647
8	10933	11423			

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 56 MHz (80 CS)			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
CEPT 12-06, Annex C					
A sub-band (Freq.table: rcinfo11_A_490_default:17)			B sub-band (Freq.table: rcinfo11_B_490_default:17)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10755	11245	7	10995	11485
2	10795	11285	8	11035	11525
3	10835	11325	9	11075	11565
4	10875	11365	10	11115	11605
5	10915	11405	11	11155	11645

ver. 1.1

2.4. RAY2-11, duplex 530 MHz

RAY2-11 - xA, RAY2-11 - xB						TX channel nominal frequencies					
Bandwidth: 3.5 MHz						Band 10.7 – 11.7 GHz, duplex spacing 530 MHz					
Channel arrangements based on 28 MHz channels											
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10710.75	11240.75	33	10822.75	11352.75	66	10938.25	11468.25	99	11053.75	11583.75
2	10714.25	11244.25	34	10826.25	11356.25	67	10941.75	11471.75	100	11057.25	11587.25
3	10717.75	11247.75	35	10829.75	11359.75	68	10945.25	11475.25	101	11060.75	11590.75
4	10721.25	11251.25	36	10833.25	11363.25	69	10948.75	11478.75	102	11064.25	11594.25
5	10724.75	11254.75	37	10836.75	11366.75	70	10952.25	11482.25	103	11067.75	11597.75
6	10728.25	11258.25	38	10840.25	11370.25	71	10955.75	11485.75	104	11071.25	11601.25
7	10731.75	11261.75	39	10843.75	11373.75	72	10959.25	11489.25	105	11074.75	11604.75
8	10735.25	11265.25	40	10847.25	11377.25	73	10962.75	11492.75	106	11078.25	11608.25
9	10738.75	11268.75	41	10850.75	11380.75	74	10966.25	11496.25	107	11081.75	11611.75
10	10742.25	11272.25	42	10854.25	11384.25	75	10969.75	11499.75	108	11085.25	11615.25
11	10745.75	11275.75	43	10857.75	11387.75	76	10973.25	11503.25	109	11088.75	11618.75
12	10749.25	11279.25	44	10861.25	11391.25	77	10976.75	11506.75	110	11092.25	11622.25
13	10752.75	11282.75	45	10864.75	11394.75	78	10980.25	11510.25	111	11095.75	11625.75
14	10756.25	11286.25	46	10868.25	11398.25	79	10983.75	11513.75	112	11099.25	11629.25
15	10759.75	11289.75	47	10871.75	11401.75	80	10987.25	11517.25	113	11102.75	11632.75
16	10763.25	11293.25	48	10875.25	11405.25	81	10990.75	11520.75	114	11106.25	11636.25
17	10766.75	11296.75	49	10878.75	11408.75	82	10994.25	11524.25	115	11109.75	11639.75
18	10770.25	11300.25	50	10882.25	11412.25	83	10997.75	11527.75	116	11113.25	11643.25
19	10773.75	11303.75	51	10885.75	11415.75	84	11001.25	11531.25	117	11116.75	11646.75
20	10777.25	11307.25	52	10889.25	11419.25	85	11004.75	11534.75	118	11120.25	11650.25
21	10780.75	11310.75	53	10892.75	11422.75	86	11008.25	11538.25	119	11123.75	11653.75
22	10784.25	11314.25	54	10896.25	11426.25	87	11011.75	11541.75	120	11127.25	11657.25
23	10787.75	11317.75	55	10899.75	11429.75	88	11015.25	11545.25	121	11130.75	11660.75
24	10791.25	11321.25	56	10903.25	11433.25	89	11018.75	11548.75	122	11134.25	11664.25
25	10794.75	11324.75	57	10906.75	11436.75	90	11022.25	11552.25	123	11137.75	11667.75
26	10798.25	11328.25	58	10910.25	11440.25	91	11025.75	11555.75	124	11141.25	11671.25
27	10801.75	11331.75	59	10913.75	11443.75	92	11029.25	11559.25	125	11144.75	11674.75
28	10805.25	11335.25	60	10917.25	11447.25	93	11032.75	11562.75	126	11148.25	11678.25
29	10808.75	11338.75	61	10920.75	11450.75	94	11036.25	11566.25	127	11151.75	11681.75
30	10812.25	11342.25	62	10924.25	11454.25	95	11039.75	11569.75	128	11155.25	11685.25
31	10815.75	11345.75	63	10927.75	11457.75	96	11043.25	11573.25	129	11158.75	11688.75
32	10819.25	11349.25				97	11046.75	11576.75	130	11162.25	11692.25
						98	11050.25	11580.25			

ver. 2.4

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 7 MHz			Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
ITU-R F.387, Annex 5					
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10712.5	11242.5	34	10943.5	11473.5
2	10719.5	11249.5	35	10950.5	11480.5
3	10726.5	11256.5	36	10957.5	11487.5
4	10733.5	11263.5	37	10964.5	11494.5
5	10740.5	11270.5	38	10971.5	11501.5
6	10747.5	11277.5	39	10978.5	11508.5
7	10754.5	11284.5	40	10985.5	11515.5
8	10761.5	11291.5	41	10992.5	11522.5
9	10768.5	11298.5	42	10999.5	11529.5
10	10775.5	11305.5	43	11006.5	11536.5
11	10782.5	11312.5	44	11013.5	11543.5
12	10789.5	11319.5	45	11020.5	11550.5
13	10796.5	11326.5	46	11027.5	11557.5
14	10803.5	11333.5	47	11034.5	11564.5
15	10810.5	11340.5	48	11041.5	11571.5
16	10817.5	11347.5	49	11048.5	11578.5
17	10824.5	11354.5	50	11055.5	11585.5
18	10831.5	11361.5	51	11062.5	11592.5
19	10838.5	11368.5	52	11069.5	11599.5
20	10845.5	11375.5	53	11076.5	11606.5
21	10852.5	11382.5	54	11083.5	11613.5
22	10859.5	11389.5	55	11090.5	11620.5
24	10873.5	11403.5	57	11104.5	11634.5
25	10880.5	11410.5	58	11111.5	11641.5
26	10887.5	11417.5	59	11118.5	11648.5
27	10894.5	11424.5	60	11125.5	11655.5
28	10901.5	11431.5	61	11132.5	11662.5
29	10908.5	11438.5	62	11139.5	11669.5
30	10915.5	11445.5	63	11146.5	11676.5
31	10922.5	11452.5	64	11153.5	11683.5
			65	11160.5	11690.5

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 14 MHz			Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
ITU-R F.387, Annex 5					
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10716	11246	18	10954	11484
2	10730	11260	19	10968	11498
3	10744	11274	20	10982	11512
4	10758	11288	21	10996	11526
5	10772	11302	22	11010	11540
6	10786	11316	23	11024	11554
7	10800	11330	24	11038	11568
8	10814	11344	25	11052	11582
9	10828	11358	26	11066	11596
10	10842	11372	27	11080	11610
11	10856	11386	28	11094	11624
12	10870	11400	29	11108	11638
13	10884	11414	30	11122	11652
14	10898	11428	31	11136	11666
15	10912	11442	32	11150	11680

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 28 MHz			Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
ITU-R F.387, Annex 5					
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10723	11253	10	10975	11505
2	10751	11281	11	11003	11533
3	10779	11309	12	11031	11561
4	10807	11337	13	11059	11589
5	10835	11365	14	11087	11617
6	10863	11393	15	11115	11645
7	10891	11421	16	11143	11673

ver. 2.2

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
Bandwidth: 40 MHz (ITU)			ITU-R F.387 rec.1.1		
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10715	11245	7	10955	11485
2	10755	11285	8	10995	11525
3	10795	11325	9	11035	11565
4	10835	11365	10	11075	11605
5	10875	11405	11	11115	11645

ver. 1.1

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
Bandwidth: 40 MHz (CEPT)			CEPT 12-06 Annex A.1		
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10735	11265	7	10975	11505
2	10775	11305	8	11015	11545
3	10815	11345	9	11055	11585
4	10855	11385	10	11095	11625
5	10895	11425	11	11135	11665

ver. 1.2

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
Bandwidth: 56 MHz			CEPT 12-06, Annex C		
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10737	11267	10	10989	11519
2	10765	11295	11	11017	11547
3	10793	11323	12	11045	11575
4	10821	11351	13	11073	11603
5	10849	11379	14	11101	11631
6	10877	11407	15	11129	11659

ver. 2.2

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 56 MHz (80 CS)			Band 10.7 – 11.7 GHz, duplex spacing 530 MHz		
			CEPT 12-06, Annex C		
A sub-band (Freq.table: rcinfo11_A_530:15)			B sub-band (Freq.table: rcinfo11_B_530:15)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10755	11285	7	10995	11525
2	10795	11325	8	11035	11565
3	10835	11365	9	11075	11605
4	10875	11405	10	11115	11645

ver. 1.1

2.5. RAY2-11, duplex 490 MHz, FCC

RAY2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 2.5 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
			175	11131.25	11621.25
			176	11133.75	11623.75
			177	11136.25	11626.25
			178	11138.75	11628.75
			179	11141.25	11631.25
			180	11143.75	11633.75
			181	11146.25	11636.25
			182	11148.75	11638.75
			183	11151.25	11641.25
			184	11153.75	11643.75
			185	11156.25	11646.25
			186	11158.75	11648.75
			187	11161.25	11651.25
			188	11163.75	11653.75
			189	11166.25	11656.25
			190	11168.75	11658.75
			191	11171.25	11661.25
			192	11173.75	11663.75
			193	11176.25	11666.25
			194	11178.75	11668.75
			195	11181.25	11681.25 *
			196	11183.75	11683.75 *
			197	11186.25	11686.25 *
			198	11188.75	11688.75 *
			199	11191.25	11691.25 *
			200	11193.75	11693.75 *

* duplex 500 MHz

ver. 1.0

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 3.75 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
			88	11133.125	11623.125
			89	11138.125	11628.125
			90	11143.125	11633.125
			91	11148.125	11638.125
			92	11153.125	11643.125
			93	11158.125	11648.125
			94	11163.125	11653.125
			95	11168.125	11658.125
			96	11173.125	11663.125
			97	11178.125	11668.125
			98	11183.125	11683.125 *
			99	11188.125	11688.125 *
			100	11193.125	11693.125 *

* duplex 500 MHz

ver. 1.0

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 5 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
			88	11132.5	11622.5
			89	11137.5	11627.5
			90	11142.5	11632.5
			91	11147.5	11637.5
			92	11152.5	11642.5
			93	11157.5	11647.5
			94	11162.5	11652.5
			95	11167.5	11657.5
			96	11172.5	11662.5
			97	11177.5	11667.5
			98	11182.5	11682.5 *
			99	11187.5	11687.5 *
			100	11192.5	11692.5 *

* duplex 500 MHz

ver. 1.0

RAy2-11 - xA, RAy2-11 - xB			TX channel nominal frequencies		
Bandwidth: 10 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10705	11205 *	25	10945	11435
2	10715	11215 *	26	10955	11445
4	10735	11225	27	10965	11455
5	10745	11235	28	10975	11465
6	10755	11245	29	10985	11475
7	10765	11255	30	10995	11485
8	10775	11265	31	11005	11495
9	10785	11275	32	11015	11505
10	10795	11285	33	11025	11515
11	10805	11295	34	11035	11525
12	10815	11305	35	11045	11535
13	10825	11315	36	11055	11545
14	10835	11325	37	11065	11555
15	10845	11335	38	11075	11565
16	10855	11345	39	11085	11575
17	10865	11355	40	11095	11585
18	10875	11365	41	11105	11595
19	10885	11375	42	11115	11605
20	10895	11385	43	11125	11615
21	10905	11395	44	11135	11625
22	10915	11405	45	11145	11635
23	10925	11415	46	11155	11645
24	10935	11425	47	11165	11655
25	10945	11435	48	11175	11665
26	10955	11445	49	11185	11685 *
27	10965	11455			

* duplex 500 MHz

ver. 1.0

RAy2-11 - xA, RAy2-11 - xB			TX channel nominal frequencies		
Bandwidth: 30 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10715	11215 *	7	10955	11445
2	10755	11245	8	10995	11485
3	10795	11285	9	11035	11525
4	10835	11325	10	11075	11565
5	10875	11365	11	11115	11605
6	10915	11405	12	11155	11645
7	10955	11445			

* duplex 500 MHz

ver. 1.0

RAy2-11 - xA, RAY2-11 - xB			TX channel nominal frequencies		
Bandwidth: 40 MHz			Band 10.7 – 11.7 GHz, duplex spacing 490 MHz		
FCC, part 101					
A sub-band (Freq.table: rcinfo11_A_FCC:3)			B sub-band (Freq.table: rcinfo11_B_FCC:3)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	10735	11225	7	10975	11465
2	10775	11265	8	11015	11505
3	10815	11305	9	11055	11545
4	10855	11345	10	11095	11585
5	10895	11385	11	11135	11625
6	10935	11425	12	11175	11665

ver. 1.0

2.6. RAY2-17

RAY2-17		TX channel nominal frequencies					
Bandwidth: 3.5 MHz		Band 17.1 – 17.3 GHz, default duplex sp. 73.5 MHz					
		duplex spacing range 63 – 189 MHz					
(Freq.table: rcinfo17_default:18)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U19	17168.0	no more channels			
		U20	17171.5				
		U21	17175.0				
L1	17105.0	U22	17178.5				
L2	17108.5	U23	17182.0				
L3	17112.0	U24	17185.5				
L4	17115.5	U25	17189.0				
L5	17119.0	U26	17192.5				
L6	17122.5	U27	17196.0				
L7	17126.0	U28	17199.5				
L8	17129.5	U29	17203.0				
L9	17133.0	U30	17206.5				
L10	17136.5	U31	17210.0				
L11	17140.0	U32	17213.5				
L12	17143.5	U33	17217.0				
L13	17147.0	U34	17220.5				
L14	17150.5	U35	17224.0				
L15	17154.0	U36	17227.5				
L16	17157.5	U37	17231.0				
L17	17161.0	U38	17234.5				
L18	17164.5	U39	17238.0				
L19	17168.0	U40	17241.5				
L20	17171.5	U41	17245.0				
L21	17175.0	U42	17248.5				
L22	17178.5	U43	17252.0				
L23	17182.0	U44	17255.5				
L24	17185.5	U45	17259.0				
L25	17189.0	U46	17262.5				
L26	17192.5	U47	17266.0				
L27	17196.0	U48	17269.5				
L28	17199.5	U49	17273.0				
L29	17203.0	U50	17276.5				
L30	17206.5	U51	17280.0				
L31	17210.0	U52	17283.5				
L32	17213.5	U53	17287.0				
L33	17217.0	U54	17290.5				
L34	17220.5	U55	17294.0				
L35	17224.0						
L36	17227.5						
L37	17231.0						

ver. 2.1

RAY2-17		TX channel nominal frequencies					
Bandwidth: 7 MHz		Band 17.1 – 17.3 GHz, default duplex sp. 73.5 MHz					
		duplex spacing range 63 – 189 MHz					
(Freq.table: rcinfo17_default:18)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U19	17168.0			U20	17171.5
		U21	17175.0				
L2	17108.5	U23	17182.0	L1	17105.0	U22	17178.5
L4	17115.5	U25	17189.0	L3	17112.0	U24	17185.5
L6	17122.5	U27	17196.0	L5	17119.0	U26	17192.5
L8	17129.5	U29	17203.0	L7	17126.0	U28	17199.5
L10	17136.5	U31	17210.0	L9	17133.0	U30	17206.5
L12	17143.5	U33	17217.0	L11	17140.0	U32	17213.5
L14	17150.5	U35	17224.0	L13	17147.0	U34	17220.5
L16	17157.5	U37	17231.0	L15	17154.0	U36	17227.5
L18	17164.5	U39	17238.0	L17	17161.0	U38	17234.5
L20	17171.5	U41	17245.0	L19	17168.0	U40	17241.5
L22	17178.5	U43	17252.0	L21	17175.0	U42	17248.5
L24	17185.5	U45	17259.0	L23	17182.0	U44	17255.5
L26	17192.5	U47	17266.0	L25	17189.0	U46	17262.5
L28	17199.5	U49	17273.0	L27	17196.0	U48	17269.5
L30	17206.5	U51	17280.0	L29	17203.0	U50	17276.5
L32	17213.5	U53	17287.0	L31	17210.0	U52	17283.5
L34	17220.5	U55	17294.0	L33	17217.0	U54	17290.5
L36	17227.5			L35	17224.0		
				L37	17231.0		

ver. 2.1

RAy2-17		TX channel nominal frequencies					
		Band 17.1 – 17.3 GHz, default duplex sp. 87.5 MHz					
Bandwidth: 14 MHz		duplex spacing range 66.5 – 182 MHz					
(Freq.table: rcinfo17_default:18)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U22	17178.5			U21	17175.0
						U23	17182.0
						U24	17185.5
						U25	17189.0
		U26	17192.5				
				L2	17108.5	U27	17196.0
				L3	17112.0	U28	17199.5
				L4	17115.5	U29	17203.0
L5	17119.0	U30	17206.5				
				L6	17122.5	U31	17210.0
				L7	17126.0	U32	17213.5
				L8	17129.5	U33	17217.0
L9	17133.0	U34	17220.5				
				L10	17136.5	U35	17224.0
				L11	17140.0	U36	17227.5
				L12	17143.5	U37	17231.0
L13	17147.0	U38	17234.5				
				L14	17150.5	U39	17238.0
				L15	17154.0	U40	17241.5
				L16	17157.5	U41	17245.0
L17	17161.0	U42	17248.5				
				L18	17164.5	U43	17252.0
				L19	17168.0	U44	17255.5
				L20	17171.5	U45	17259.0
L21	17175.0	U46	17262.5				
				L22	17178.5	U47	17266.0
				L23	17182.0	U48	17269.5
				L24	17185.5	U49	17273.0
L25	17189.0	U50	17276.5				
				L26	17192.5	U51	17280.0
				L27	17196.0	U52	17283.5
				L28	17199.5	U53	17287.0
L29	17203.0	U54	17290.5				
				L30	17206.5		
				L31	17210.0		
				L32	17213.5		
L33	17217.0						
				L34	17220.5		
				L35	17224.0		

Ver. 2.1

RAY2-17				TX channel nominal frequencies			
Bandwidth: 40 MHz				Band 17.1 – 17.3 GHz, default duplex sp. 70 MHz			
duplex spacing range 70 – 154 MHz							
(Freq.table: rcinfo17_default:18)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L6	17122.5	U26	17192.5	L7	17126.0	U27	17196.0
				L8	17129.5	U28	17199.5
				L9	17133.0	U29	17203.0
				L10	17136.5	U30	17206.5
				L11	17140.0	U31	17210.0
				L12	17143.5	U32	17213.5
				L13	17147.0	U33	17217.0
				L14	17150.5	U34	17220.5
				L15	17154.0	U35	17224.0
				L16	17157.5	U36	17227.5
				L17	17161.0	U37	17231.0
L18	17164.5	U38	17234.5	L19	17168.0	U39	17238.0
				L20	17171.5	U40	17241.5
				L21	17175.0	U41	17245.0
				L22	17178.5	U42	17248.5
				L23	17182.0	U43	17252.0
				L24	17185.5	U44	17255.5
				L25	17189.0	U45	17259.0
				L26	17192.5	U46	17262.5
				L27	17196.0	U47	17266.0
				L28	17199.5	U48	17269.5
				L29	17203.0	U49	17273.0
L30	17206.5	U50	17276.5				

ver. 2.1

RAY2-17				TX channel nominal frequencies			
Bandwidth: 50 MHz				Band 17.1 – 17.3 GHz, default duplex sp. 87.5 MHz			
				duplex spacing range 84 – 143.5 MHz			
(Freq.table: rcinfo17_default:18)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L9	17133.0	U34	17220.5	L8	17129.5	U32	17213.5
						U33	17217.0
				L10	17136.5	U35	17224.0
				L11	17140.0	U36	17227.5
				L12	17143.5	U37	17231.0
				L13	17147.0	U38	17234.5
				L14	17150.5	U39	17238.0
				L15	17154.0	U40	17241.5
				L16	17157.5	U41	17245.0
				L17	17161.0	U42	17248.5
				L18	17164.5	U43	17252.0
				L19	17168.0	U44	17255.5
				L20	17171.5	U45	17259.0
				L21	17175.0	U46	17262.5
				L22	17178.5	U47	17266.0
				L24	17185.5	U49	17273.0
L25	17189.0						

Ver. 1.0

TX channel nominal frequencies			
Band 17.1 – 17.3 GHz, default duplex sp. 84 MHz			
Bandwidth: 56 MHz		duplex spacing range 84 – 140 MHz	
(Freq.table: rcinfo17_default:18)			
basic channels (default duplex)		optional channels	
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L8	17129.5	U32	17213.5
		L9	17133.0
		L10	17136.5
		L11	17140.0
		L12	17143.5
		L13	17147.0
		L14	17150.5
		L15	17154.0
		L16	17157.5
		L17	17161.0
		L18	17164.5
		L19	17168.0
		L20	17171.5
		L21	17175.0
		L22	17178.5
		L23	17182.0
L24	17185.5	U48	17269.5
		U33	17217.0
		U34	17220.5
		U35	17224.0
		U36	17227.5
		U37	17231.0
		U38	17234.5
		U39	17238.0
		U40	17241.5
		U41	17245.0
		U42	17248.5
		U43	17252.0
		U44	17255.5
		U45	17259.0
		U46	17262.5
		U47	17266.0

ver. 2.1

2.7. RAY2-18, duplex 1010, 1008 MHz

RAY2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies								
Bandwidth: 1.75 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz								
A sub-band			(Freq.table: rcinfo18_A_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17703.875	18713.875	74	17831.625	18841.625	147	17959.375	18969.375	220	18087.125	19097.125
2	17705.625	18715.625	75	17833.375	18843.375	148	17961.125	18971.125	221	18088.875	19098.875
3	17707.375	18717.375	76	17835.125	18845.125	149	17962.875	18972.875	222	18090.625	19100.625
4	17709.125	18719.125	77	17836.875	18846.875	150	17964.625	18974.625	223	18092.375	19102.375
5	17710.875	18720.875	78	17838.625	18848.625	151	17966.375	18976.375	224	18094.125	19104.125
6	17712.625	18722.625	79	17840.375	18850.375	152	17968.125	18978.125	225	18095.875	19105.875
7	17714.375	18724.375	80	17842.125	18852.125	153	17969.875	18979.875	226	18097.625	19107.625
8	17716.125	18726.125	81	17843.875	18853.875	154	17971.625	18981.625	227	18099.375	19109.375
9	17717.875	18727.875	82	17845.625	18855.625	155	17973.375	18983.375	228	18101.125	19111.125
10	17719.625	18729.625	83	17847.375	18857.375	156	17975.125	18985.125	229	18102.875	19112.875
11	17721.375	18731.375	84	17849.125	18859.125	157	17976.875	18986.875	230	18104.625	19114.625
12	17723.125	18733.125	85	17850.875	18860.875	158	17978.625	18988.625	231	18106.375	19116.375
13	17724.875	18734.875	86	17852.625	18862.625	159	17980.375	18990.375	232	18108.125	19118.125
14	17726.625	18736.625	87	17854.375	18864.375	160	17982.125	18992.125	233	18109.875	19119.875
15	17728.375	18738.375	88	17856.125	18866.125	161	17983.875	18993.875	234	18111.625	19121.625
16	17730.125	18740.125	89	17857.875	18867.875	162	17985.625	18995.625	235	18113.375	19123.375
17	17731.875	18741.875	90	17859.625	18869.625	163	17987.375	18997.375	236	18115.125	19125.125
18	17733.625	18743.625	91	17861.375	18871.375	164	17989.125	18999.125	237	18116.875	19126.875
19	17735.375	18745.375	92	17863.125	18873.125	165	17990.875	19000.875	238	18118.625	19128.625
20	17737.125	18747.125	93	17864.875	18874.875	166	17992.625	19002.625	239	18120.375	19130.375
21	17738.875	18748.875	94	17866.625	18876.625	167	17994.375	19004.375	240	18122.125	19132.125
22	17740.625	18750.625	95	17868.375	18878.375	168	17996.125	19006.125	241	18123.875	19133.875
23	17742.375	18752.375	96	17870.125	18880.125	169	17997.875	19007.875	242	18125.625	19135.625
24	17744.125	18754.125	97	17871.875	18881.875	170	17999.625	19009.625	243	18127.375	19137.375
25	17745.875	18755.875	98	17873.625	18883.625	171	18001.375	19011.375	244	18129.125	19139.125
26	17747.625	18757.625	99	17875.375	18885.375	172	18003.125	19013.125	245	18130.875	19140.875
27	17749.375	18759.375	100	17877.125	18887.125	173	18004.875	19014.875	246	18132.625	19142.625
28	17751.125	18761.125	101	17878.875	18888.875	174	18006.625	19016.625	247	18134.375	19144.375
29	17752.875	18762.875	102	17880.625	18890.625	175	18008.375	19018.375	248	18136.125	19146.125
30	17754.625	18764.625	103	17882.375	18892.375	176	18010.125	19020.125	249	18137.875	19147.875
31	17756.375	18766.375	104	17884.125	18894.125	177	18011.875	19021.875	250	18139.625	19149.625
32	17758.125	18768.125	105	17885.875	18895.875	178	18013.625	19023.625	251	18141.375	19151.375
33	17759.875	18769.875	106	17887.625	18897.625	179	18015.375	19025.375	252	18143.125	19153.125
34	17761.625	18771.625	107	17889.375	18899.375	180	18017.125	19027.125	253	18144.875	19154.875
35	17763.375	18773.375	108	17891.125	18901.125	181	18018.875	19028.875	254	18146.625	19156.625
36	17765.125	18775.125	109	17892.875	18902.875	182	18020.625	19030.625	255	18148.375	19158.375
37	17766.875	18776.875	110	17894.625	18904.625	183	18022.375	19032.375	256	18150.125	19160.125
38	17768.625	18778.625	111	17896.375	18906.375	184	18024.125	19034.125	257	18151.875	19161.875
39	17770.375	18780.375	112	17898.125	18908.125	185	18025.875	19035.875	258	18153.625	19163.625
40	17772.125	18782.125	113	17899.875	18909.875	186	18027.625	19037.625	259	18155.375	19165.375
41	17773.875	18783.875	114	17901.625	18911.625	187	18029.375	19039.375	260	18157.125	19167.125
42	17775.625	18785.625	115	17903.375	18913.375	188	18031.125	19041.125	261	18158.875	19168.875
43	17777.375	18787.375	116	17905.125	18915.125	189	18032.875	19042.875	262	18160.625	19170.625
44	17779.125	18789.125	117	17906.875	18916.875	190	18034.625	19044.625	263	18162.375	19172.375
45	17780.875	18790.875	118	17908.625	18918.625	191	18036.375	19046.375	264	18164.125	19174.125
46	17782.625	18792.625	119	17910.375	18920.375	192	18038.125	19048.125	265	18165.875	19175.875
47	17784.375	18794.375	120	17912.125	18922.125	193	18039.875	19049.875	266	18167.625	19177.625
48	17786.125	18796.125	121	17913.875	18923.875	194	18041.625	19051.625	267	18169.375	19179.375
49	17787.875	18797.875	122	17915.625	18925.625	195	18043.375	19053.375	268	18171.125	19181.125
50	17789.625	18799.625	123	17917.375	18927.375	196	18045.125	19055.125	269	18172.875	19182.875
51	17791.375	18801.375	124	17919.125	18929.125	197	18046.875	19056.875	270	18174.625	19184.625
52	17793.125	18803.125	125	17920.875	18930.875	198	18048.625	19058.625	271	18176.375	19186.375
53	17794.875	18804.875	126	17922.625	18932.625	199	18050.375	19060.375	272	18178.125	19188.125
54	17796.625	18806.625	127	17924.375	18934.375	200	18052.125	19062.125	273	18179.875	19189.875
55	17798.375	18808.375	128	17926.125	18936.125	201	18053.875	19063.875	274	18181.625	19191.625
56	17800.125	18810.125	129	17927.875	18937.875	202	18055.625	19065.625	275	18183.375	19193.375
57	17801.875	18811.875	130	17929.625	18939.625	203	18057.375	19067.375	276	18185.125	19195.125
58	17803.625	18813.625	131	17931.375	18941.375	204	18059.125	19069.125	277	18186.875	19196.875
59	17805.375	18815.375	132	17933.125	18943.125	205	18060.875	19070.875	278	18188.625	19198.625
60	17807.125	18817.125	133	17934.875	18944.875	206	18062.625	19072.625	279	18190.375	19200.375
61	17808.875	18818.875	134	17936.625	18946.625	207	18064.375	19074.375	280	18192.125	19202.125
62	17810.625	18820.625	135	17938.375	18948.375	208	18066.125	19076.125	281	18193.875	19203.875
63	17812.375	18822.375	136	17940.125	18950.125	209	18067.875	19077.875	282	18195.625	19205.625
64	17814.125	18824.125	137	17941.875	18951.875	210	18069.625	19079.625	283	18197.375	19207.375
65	17815.875	18825.875	138	17943.625	18953.625	211	18071.375	19081.375	284	18199.125	19209.125
66	17817.625	18827.625	139	17945.375	18955.375	212	18073.125	19083.125	285	18200.875	19210.875
67	17819.375	18829.375	140	17947.125	18957.125	213	18074.875	19084.875	286	18202.625	19212.625
68	17821.125	18831.125	141	17948.875	18958.875	214	18076.625	19086.625	287	18204.375	19214.375
69	17822.875	18832.875	142	17950.625	18960.625	215	18078.375	19088.375	288	18206.125	19216.125
70	17824.625	18834.625	143	17952.375	18962.375	216	18080.125	19090.125	289	18207.875	19217.875
71	17826.375	18836.375	144	17954.125	18964.125	217	18081.875	19091.875			
72	17828.125	18838.125	145	17955.875	18965.875	218	18083.625	19093.625			
73	17829.875	18839.875	146	17957.625	18967.625	219	18085.375	19095.375			

Ver. 1.1

RAY2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz								
Bandwidth: 1.75 MHz			ITU-R F.595-9 (-10), Annex 5.c								
B sub-band			(Freq.table: rcinfo18_B_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
267	18169.375	19179.375	342	18300.625	19310.625	417	18431.875	19441.875	492	18563.125	19573.125
268	18171.125	19181.125	343	18302.375	19312.375	418	18433.625	19443.625	493	18564.875	19574.875
269	18172.875	19182.875	344	18304.125	19314.125	419	18435.375	19445.375	494	18566.625	19576.625
270	18174.625	19184.625	345	18305.875	19315.875	420	18437.125	19447.125	495	18568.375	19578.375
271	18176.375	19186.375	346	18307.625	19317.625	421	18438.875	19448.875	496	18570.125	19580.125
272	18178.125	19188.125	347	18309.375	19319.375	422	18440.625	19450.625	497	18571.875	19581.875
273	18179.875	19189.875	348	18311.125	19321.125	423	18442.375	19452.375	498	18573.625	19583.625
274	18181.625	19191.625	349	18312.875	19322.875	424	18444.125	19454.125	499	18575.375	19585.375
275	18183.375	19193.375	350	18314.625	19324.625	425	18445.875	19455.875	500	18577.125	19587.125
276	18185.125	19195.125	351	18316.375	19326.375	426	18447.625	19457.625	501	18578.875	19588.875
277	18186.875	19196.875	352	18318.125	19328.125	427	18449.375	19459.375	502	18580.625	19590.625
278	18188.625	19198.625	353	18319.875	19329.875	428	18451.125	19461.125	503	18582.375	19592.375
279	18190.375	19200.375	354	18321.625	19331.625	429	18452.875	19462.875	504	18584.125	19594.125
280	18192.125	19202.125	355	18323.375	19333.375	430	18454.625	19464.625	505	18585.875	19595.875
281	18193.875	19203.875	356	18325.125	19335.125	431	18456.375	19466.375	506	18587.625	19597.625
282	18195.625	19205.625	357	18326.875	19336.875	432	18458.125	19468.125	507	18589.375	19599.375
283	18197.375	19207.375	358	18328.625	19338.625	433	18459.875	19469.875	508	18591.125	19601.125
284	18199.125	19209.125	359	18330.375	19340.375	434	18461.625	19471.625	509	18592.875	19602.875
285	18200.875	19210.875	360	18332.125	19342.125	435	18463.375	19473.375	510	18594.625	19604.625
286	18202.625	19212.625	361	18333.875	19343.875	436	18465.125	19475.125	511	18596.375	19606.375
287	18204.375	19214.375	362	18335.625	19345.625	437	18466.875	19476.875	512	18598.125	19608.125
288	18206.125	19216.125	363	18337.375	19347.375	438	18468.625	19478.625	513	18599.875	19609.875
289	18207.875	19217.875	364	18339.125	19349.125	439	18470.375	19480.375	514	18601.625	19611.625
290	18209.625	19219.625	365	18340.875	19350.875	440	18472.125	19482.125	515	18603.375	19613.375
291	18211.375	19221.375	366	18342.625	19352.625	441	18473.875	19483.875	516	18605.125	19615.125
292	18213.125	19223.125	367	18344.375	19354.375	442	18475.625	19485.625	517	18606.875	19616.875
293	18214.875	19224.875	368	18346.125	19356.125	443	18477.375	19487.375	518	18608.625	19618.625
294	18216.625	19226.625	369	18347.875	19357.875	444	18479.125	19489.125	519	18610.375	19620.375
295	18218.375	19228.375	370	18349.625	19359.625	445	18480.875	19490.875	520	18612.125	19622.125
296	18220.125	19230.125	371	18351.375	19361.375	446	18482.625	19492.625	521	18613.875	19623.875
297	18221.875	19231.875	372	18353.125	19363.125	447	18484.375	19494.375	522	18615.625	19625.625
298	18223.625	19233.625	373	18354.875	19364.875	448	18486.125	19496.125	523	18617.375	19627.375
299	18225.375	19235.375	374	18356.625	19366.625	449	18487.875	19497.875	524	18619.125	19629.125
300	18227.125	19237.125	375	18358.375	19368.375	450	18489.625	19499.625	525	18620.875	19630.875
301	18228.875	19238.875	376	18360.125	19370.125	451	18491.375	19501.375	526	18622.625	19632.625
302	18230.625	19240.625	377	18361.875	19371.875	452	18493.125	19503.125	527	18624.375	19634.375
303	18232.375	19242.375	378	18363.625	19373.625	453	18494.875	19504.875	528	18626.125	19636.125
304	18234.125	19244.125	379	18365.375	19375.375	454	18496.625	19506.625	529	18627.875	19637.875
305	18235.875	19245.875	380	18367.125	19377.125	455	18498.375	19508.375	530	18629.625	19639.625
306	18237.625	19247.625	381	18368.875	19378.875	456	18500.125	19510.125	531	18631.375	19641.375
307	18239.375	19249.375	382	18370.625	19380.625	457	18501.875	19511.875	532	18633.125	19643.125
308	18241.125	19251.125	383	18372.375	19382.375	458	18503.625	19513.625	533	18634.875	19644.875
309	18242.875	19252.875	384	18374.125	19384.125	459	18505.375	19515.375	534	18636.625	19646.625
310	18244.625	19254.625	385	18375.875	19385.875	460	18507.125	19517.125	535	18638.375	19648.375
311	18246.375	19256.375	386	18377.625	19387.625	461	18508.875	19518.875	536	18640.125	19650.125
312	18248.125	19258.125	387	18379.375	19389.375	462	18510.625	19520.625	537	18641.875	19651.875
313	18249.875	19259.875	388	18381.125	19391.125	463	18512.375	19522.375	538	18643.625	19653.625
314	18251.625	19261.625	389	18382.875	19392.875	464	18514.125	19524.125	539	18645.375	19655.375
315	18253.375	19263.375	390	18384.625	19394.625	465	18515.875	19525.875	540	18647.125	19657.125
316	18255.125	19265.125	391	18386.375	19396.375	466	18517.625	19527.625	541	18648.875	19658.875
317	18256.875	19266.875	392	18388.125	19398.125	467	18519.375	19529.375	542	18650.625	19660.625
318	18258.625	19268.625	393	18389.875	19399.875	468	18521.125	19531.125	543	18652.375	19662.375
319	18260.375	19270.375	394	18391.625	19401.625	469	18522.875	19532.875	544	18654.125	19664.125
320	18262.125	19272.125	395	18393.375	19403.375	470	18524.625	19534.625	545	18655.875	19665.875
321	18263.875	19273.875	396	18395.125	19405.125	471	18526.375	19536.375	546	18657.625	19667.625
322	18265.625	19275.625	397	18396.875	19406.875	472	18528.125	19538.125	547	18659.375	19669.375
323	18267.375	19277.375	398	18398.625	19408.625	473	18529.875	19539.875	548	18661.125	19671.125
324	18269.125	19279.125	399	18400.375	19410.375	474	18531.625	19541.625	549	18662.875	19672.875
325	18270.875	19280.875	400	18402.125	19412.125	475	18533.375	19543.375	550	18664.625	19674.625
326	18272.625	19282.625	401	18403.875	19413.875	476	18535.125	19545.125	551	18666.375	19676.375
327	18274.375	19284.375	402	18405.625	19415.625	477	18536.875	19546.875	552	18668.125	19678.125
328	18276.125	19286.125	403	18407.375	19417.375	478	18538.625	19548.625	553	18669.875	19679.875
329	18277.875	19287.875	404	18409.125	19419.125	479	18540.375	19550.375	554	18671.625	19681.625
330	18279.625	19289.625	405	18410.875	19420.875	480	18542.125	19552.125	555	18673.375	19683.375
331	18281.375	19291.375	406	18412.625	19422.625	481	18543.875	19553.875	556	18675.125	19685.125
332	18283.125	19293.125	407	18414.375	19424.375	482	18545.625	19555.625	557	18676.875	19686.875
333	18284.875	19294.875	408	18416.125	19426.125	483	18547.375	19557.375	558	18678.625	19688.625
334	18286.625	19296.625	409	18417.875	19427.875	484	18549.125	19559.125	559	18680.375	19690.375
335	18288.375	19298.375	410	18419.625	19429.625	485	18550.875	19560.875	560	18682.125	19692.125
336	18290.125	19300.125	411	18421.375	19431.375	486	18552.625	19562.625	561	18683.875	19693.875
337	18291.875	19301.875	412	18423.125	19433.125	487	18554.375	19564.375	562	18685.625	19695.625
338	18293.625	19303.625	413	18424.875	19434.875	488	18556.125	19566.125	563	18687.375	19697.375
339	18295.375	19305.375	414	18426.625	19436.625	489	18557.875	19567.875	564	18689.125	19699.125
340	18297.125	19307.125	415	18428.375	19438.375	490	18559.625	19569.625			
341	18298.875	19308.875	416	18430.125	19440.125	491	18561.375	19571.375			

Ver. 1.1

RAY2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz								
Bandwidth: 2.5 MHz			ITU-R F.595-9, Annex 4 (7.b)								
A sub-band			(Freq.table: rcinfo18_A_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17702.5	18712.5	53	17832.5	18842.5	105	17962.5	18972.5	157	18092.5	19102.5
2	17705.0	18715.0	54	17835.0	18845.0	106	17965.0	18975.0	158	18095.0	19105.0
3	17707.5	18717.5	55	17837.5	18847.5	107	17967.5	18977.5	159	18097.5	19107.5
4	17710.0	18720.0	56	17840.0	18850.0	108	17970.0	18980.0	160	18100.0	19110.0
5	17712.5	18722.5	57	17842.5	18852.5	109	17972.5	18982.5	161	18102.5	19112.5
6	17715.0	18725.0	58	17845.0	18855.0	110	17975.0	18985.0	162	18105.0	19115.0
7	17717.5	18727.5	59	17847.5	18857.5	111	17977.5	18987.5	163	18107.5	19117.5
8	17720.0	18730.0	60	17850.0	18860.0	112	17980.0	18990.0	164	18110.0	19120.0
9	17722.5	18732.5	61	17852.5	18862.5	113	17982.5	18992.5	165	18112.5	19122.5
10	17725.0	18735.0	62	17855.0	18865.0	114	17985.0	18995.0	166	18115.0	19125.0
11	17727.5	18737.5	63	17857.5	18867.5	115	17987.5	18997.5	167	18117.5	19127.5
12	17730.0	18740.0	64	17860.0	18870.0	116	17990.0	19000.0	168	18120.0	19130.0
13	17732.5	18742.5	65	17862.5	18872.5	117	17992.5	19002.5	169	18122.5	19132.5
14	17735.0	18745.0	66	17865.0	18875.0	118	17995.0	19005.0	170	18125.0	19135.0
15	17737.5	18747.5	67	17867.5	18877.5	119	17997.5	19007.5	171	18127.5	19137.5
16	17740.0	18750.0	68	17870.0	18880.0	120	18000.0	19010.0	172	18130.0	19140.0
17	17742.5	18752.5	69	17872.5	18882.5	121	18002.5	19012.5	173	18132.5	19142.5
18	17745.0	18755.0	70	17875.0	18885.0	122	18005.0	19015.0	174	18135.0	19145.0
19	17747.5	18757.5	71	17877.5	18887.5	123	18007.5	19017.5	175	18137.5	19147.5
20	17750.0	18760.0	72	17880.0	18890.0	124	18010.0	19020.0	176	18140.0	19150.0
21	17752.5	18762.5	73	17882.5	18892.5	125	18012.5	19022.5	177	18142.5	19152.5
22	17755.0	18765.0	74	17885.0	18895.0	126	18015.0	19025.0	178	18145.0	19155.0
23	17757.5	18767.5	75	17887.5	18897.5	127	18017.5	19027.5	179	18147.5	19157.5
24	17760.0	18770.0	76	17890.0	18900.0	128	18020.0	19030.0	180	18150.0	19160.0
25	17762.5	18772.5	77	17892.5	18902.5	129	18022.5	19032.5	181	18152.5	19162.5
26	17765.0	18775.0	78	17895.0	18905.0	130	18025.0	19035.0	182	18155.0	19165.0
27	17767.5	18777.5	79	17897.5	18907.5	131	18027.5	19037.5	183	18157.5	19167.5
28	17770.0	18780.0	80	17900.0	18910.0	132	18030.0	19040.0	184	18160.0	19170.0
29	17772.5	18782.5	81	17902.5	18912.5	133	18032.5	19042.5	185	18162.5	19172.5
30	17775.0	18785.0	82	17905.0	18915.0	134	18035.0	19045.0	186	18165.0	19175.0
31	17777.5	18787.5	83	17907.5	18917.5	135	18037.5	19047.5	187	18167.5	19177.5
32	17780.0	18790.0	84	17910.0	18920.0	136	18040.0	19050.0	188	18170.0	19180.0
33	17782.5	18792.5	85	17912.5	18922.5	137	18042.5	19052.5	189	18172.5	19182.5
34	17785.0	18795.0	86	17915.0	18925.0	138	18045.0	19055.0	190	18175.0	19185.0
35	17787.5	18797.5	87	17917.5	18927.5	139	18047.5	19057.5	191	18177.5	19187.5
36	17790.0	18800.0	88	17920.0	18930.0	140	18050.0	19060.0	192	18180.0	19190.0
37	17792.5	18802.5	89	17922.5	18932.5	141	18052.5	19062.5	193	18182.5	19192.5
38	17795.0	18805.0	90	17925.0	18935.0	142	18055.0	19065.0	194	18185.0	19195.0
39	17797.5	18807.5	91	17927.5	18937.5	143	18057.5	19067.5	195	18187.5	19197.5
40	17800.0	18810.0	92	17930.0	18940.0	144	18060.0	19070.0	196	18190.0	19200.0
41	17802.5	18812.5	93	17932.5	18942.5	145	18062.5	19072.5	197	18192.5	19202.5
42	17805.0	18815.0	94	17935.0	18945.0	146	18065.0	19075.0	198	18195.0	19205.0
43	17807.5	18817.5	95	17937.5	18947.5	147	18067.5	19077.5	199	18197.5	19207.5
44	17810.0	18820.0	96	17940.0	18950.0	148	18070.0	19080.0	200	18200.0	19210.0
45	17812.5	18822.5	97	17942.5	18952.5	149	18072.5	19082.5	201	18202.5	19212.5
46	17815.0	18825.0	98	17945.0	18955.0	150	18075.0	19085.0	202	18205.0	19215.0
47	17817.5	18827.5	99	17947.5	18957.5	151	18077.5	19087.5	203	18207.5	19217.5
48	17820.0	18830.0	100	17950.0	18960.0	152	18080.0	19090.0			
49	17822.5	18832.5	101	17952.5	18962.5	153	18082.5	19092.5			
50	17825.0	18835.0	102	17955.0	18965.0	154	18085.0	19095.0			
51	17827.5	18837.5	103	17957.5	18967.5	155	18087.5	19097.5			
52	17830.0	18840.0	104	17960.0	18970.0	156	18090.0	19100.0			

Ver. 1.0

RAY2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz								
Bandwidth: 2.5 MHz			ITU-R F.595-9, Annex 4 (7.b)								
B sub-band			(Freq.table: rcinfo18_B_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
188	18170.0	19180.0	240	18300.0	19310.0	292	18430.0	19440.0	344	18560.0	19570.0
189	18172.5	19182.5	241	18302.5	19312.5	293	18432.5	19442.5	345	18562.5	19572.5
190	18175.0	19185.0	242	18305.0	19315.0	294	18435.0	19445.0	346	18565.0	19575.0
191	18177.5	19187.5	243	18307.5	19317.5	295	18437.5	19447.5	347	18567.5	19577.5
192	18180.0	19190.0	244	18310.0	19320.0	296	18440.0	19450.0	348	18570.0	19580.0
193	18182.5	19192.5	245	18312.5	19322.5	297	18442.5	19452.5	349	18572.5	19582.5
194	18185.0	19195.0	246	18315.0	19325.0	298	18445.0	19455.0	350	18575.0	19585.0
195	18187.5	19197.5	247	18317.5	19327.5	299	18447.5	19457.5	351	18577.5	19587.5
196	18190.0	19200.0	248	18320.0	19330.0	300	18450.0	19460.0	352	18580.0	19590.0
197	18192.5	19202.5	249	18322.5	19332.5	301	18452.5	19462.5	353	18582.5	19592.5
198	18195.0	19205.0	250	18325.0	19335.0	302	18455.0	19465.0	354	18585.0	19595.0
199	18197.5	19207.5	251	18327.5	19337.5	303	18457.5	19467.5	355	18587.5	19597.5
200	18200.0	19210.0	252	18330.0	19340.0	304	18460.0	19470.0	356	18590.0	19600.0
201	18202.5	19212.5	253	18332.5	19342.5	305	18462.5	19472.5	357	18592.5	19602.5
202	18205.0	19215.0	254	18335.0	19345.0	306	18465.0	19475.0	358	18595.0	19605.0
203	18207.5	19217.5	255	18337.5	19347.5	307	18467.5	19477.5	359	18597.5	19607.5
204	18210.0	19220.0	256	18340.0	19350.0	308	18470.0	19480.0	360	18600.0	19610.0
205	18212.5	19222.5	257	18342.5	19352.5	309	18472.5	19482.5	361	18602.5	19612.5
206	18215.0	19225.0	258	18345.0	19355.0	310	18475.0	19485.0	362	18605.0	19615.0
207	18217.5	19227.5	259	18347.5	19357.5	311	18477.5	19487.5	363	18607.5	19617.5
208	18220.0	19230.0	260	18350.0	19360.0	312	18480.0	19490.0	364	18610.0	19620.0
209	18222.5	19232.5	261	18352.5	19362.5	313	18482.5	19492.5	365	18612.5	19622.5
210	18225.0	19235.0	262	18355.0	19365.0	314	18485.0	19495.0	366	18615.0	19625.0
211	18227.5	19237.5	263	18357.5	19367.5	315	18487.5	19497.5	367	18617.5	19627.5
212	18230.0	19240.0	264	18360.0	19370.0	316	18490.0	19500.0	368	18620.0	19630.0
213	18232.5	19242.5	265	18362.5	19372.5	317	18492.5	19502.5	369	18622.5	19632.5
214	18235.0	19245.0	266	18365.0	19375.0	318	18495.0	19505.0	370	18625.0	19635.0
215	18237.5	19247.5	267	18367.5	19377.5	319	18497.5	19507.5	371	18627.5	19637.5
216	18240.0	19250.0	268	18370.0	19380.0	320	18500.0	19510.0	372	18630.0	19640.0
217	18242.5	19252.5	269	18372.5	19382.5	321	18502.5	19512.5	373	18632.5	19642.5
218	18245.0	19255.0	270	18375.0	19385.0	322	18505.0	19515.0	374	18635.0	19645.0
219	18247.5	19257.5	271	18377.5	19387.5	323	18507.5	19517.5	375	18637.5	19647.5
220	18250.0	19260.0	272	18380.0	19390.0	324	18510.0	19520.0	376	18640.0	19650.0
221	18252.5	19262.5	273	18382.5	19392.5	325	18512.5	19522.5	377	18642.5	19652.5
222	18255.0	19265.0	274	18385.0	19395.0	326	18515.0	19525.0	378	18645.0	19655.0
223	18257.5	19267.5	275	18387.5	19397.5	327	18517.5	19527.5	379	18647.5	19657.5
224	18260.0	19270.0	276	18390.0	19400.0	328	18520.0	19530.0	380	18650.0	19660.0
225	18262.5	19272.5	277	18392.5	19402.5	329	18522.5	19532.5	381	18652.5	19662.5
226	18265.0	19275.0	278	18395.0	19405.0	330	18525.0	19535.0	382	18655.0	19665.0
227	18267.5	19277.5	279	18397.5	19407.5	331	18527.5	19537.5	383	18657.5	19667.5
228	18270.0	19280.0	280	18400.0	19410.0	332	18530.0	19540.0	384	18660.0	19670.0
229	18272.5	19282.5	281	18402.5	19412.5	333	18532.5	19542.5	385	18662.5	19672.5
230	18275.0	19285.0	282	18405.0	19415.0	334	18535.0	19545.0	386	18665.0	19675.0
231	18277.5	19287.5	283	18407.5	19417.5	335	18537.5	19547.5	387	18667.5	19677.5
232	18280.0	19290.0	284	18410.0	19420.0	336	18540.0	19550.0	388	18670.0	19680.0
233	18282.5	19292.5	285	18412.5	19422.5	337	18542.5	19552.5	389	18672.5	19682.5
234	18285.0	19295.0	286	18415.0	19425.0	338	18545.0	19555.0	390	18675.0	19685.0
235	18287.5	19297.5	287	18417.5	19427.5	339	18547.5	19557.5	391	18677.5	19687.5
236	18290.0	19300.0	288	18420.0	19430.0	340	18550.0	19560.0	392	18680.0	19690.0
237	18292.5	19302.5	289	18422.5	19432.5	341	18552.5	19562.5	393	18682.5	19692.5
238	18295.0	19305.0	290	18425.0	19435.0	342	18555.0	19565.0	394	18685.0	19695.0
239	18297.5	19307.5	291	18427.5	19437.5	343	18557.5	19567.5	395	18687.5	19697.5

Ver. 1.0

RAY2-18 - xA, RAY2-18 - xB						TX channel nominal frequencies					
Bandwidth: 3.5 MHz (S)						Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz					
(Freq.table: rcinfo18_A_default:9)						(Freq.table: rcinfo18_B_default:9)					
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17704.75	18714.75	76	17967.25	18977.25	134	18170.25	19180.25	209	18432.75	19442.75
2	17708.25	18718.25	77	17970.75	18980.75	135	18173.75	19183.75	210	18436.25	19446.25
3	17711.75	18721.75	78	17974.25	18984.25	136	18177.25	19187.25	211	18439.75	19449.75
4	17715.25	18725.25	79	17977.75	18987.75	137	18180.75	19190.75	212	18443.25	19453.25
5	17718.75	18728.75	80	17981.25	18991.25	138	18184.25	19194.25	213	18446.75	19456.75
6	17722.25	18732.25	81	17984.75	18994.75	139	18187.75	19197.75	214	18450.25	19460.25
7	17725.75	18735.75	82	17988.25	18998.25	140	18191.25	19201.25	215	18453.75	19463.75
8	17729.25	18739.25	83	17991.75	19001.75	141	18194.75	19204.75	216	18457.25	19467.25
9	17732.75	18742.75	84	17995.25	19005.25	142	18198.25	19208.25	217	18460.75	19470.75
10	17736.25	18746.25	85	17998.75	19008.75	143	18201.75	19211.75	218	18464.25	19474.25
11	17739.75	18749.75	86	18002.25	19012.25	144	18205.25	19215.25	219	18467.75	19477.75
12	17743.25	18753.25	87	18005.75	19015.75	145	18208.75	19218.75	220	18471.25	19481.25
13	17746.75	18756.75	88	18009.25	19019.25	146	18212.25	19222.25	221	18474.75	19484.75
14	17750.25	18760.25	89	18012.75	19022.75	147	18215.75	19225.75	222	18478.25	19488.25
15	17753.75	18763.75	90	18016.25	19026.25	148	18219.25	19229.25	223	18481.75	19491.75
16	17757.25	18767.25	91	18019.75	19029.75	149	18222.75	19232.75	224	18485.25	19495.25
17	17760.75	18770.75	92	18023.25	19033.25	150	18226.25	19236.25	225	18488.75	19498.75
18	17764.25	18774.25	93	18026.75	19036.75	151	18229.75	19239.75	226	18492.25	19502.25
19	17767.75	18777.75	94	18030.25	19040.25	152	18233.25	19243.25	227	18495.75	19505.75
20	17771.25	18781.25	95	18033.75	19043.75	153	18236.75	19246.75	228	18499.25	19509.25
21	17774.75	18784.75	96	18037.25	19047.25	154	18240.25	19250.25	229	18502.75	19512.75
22	17778.25	18788.25	97	18040.75	19050.75	155	18243.75	19253.75	230	18506.25	19516.25
23	17781.75	18791.75	98	18044.25	19054.25	156	18247.25	19257.25	231	18509.75	19519.75
24	17785.25	18795.25	99	18047.75	19057.75	157	18250.75	19260.75	232	18513.25	19523.25
25	17788.75	18798.75	100	18051.25	19061.25	158	18254.25	19264.25	233	18516.75	19526.75
26	17792.25	18802.25	101	18054.75	19064.75	159	18257.75	19267.75	234	18520.25	19530.25
27	17795.75	18805.75	102	18058.25	19068.25	160	18261.25	19271.25	235	18523.75	19533.75
28	17799.25	18809.25	103	18061.75	19071.75	161	18264.75	19274.75	236	18527.25	19537.25
29	17802.75	18812.75	104	18065.25	19075.25	162	18268.25	19278.25	237	18530.75	19540.75
30	17806.25	18816.25	105	18068.75	19078.75	163	18271.75	19281.75	238	18534.25	19544.25
31	17809.75	18819.75	106	18072.25	19082.25	164	18275.25	19285.25	239	18537.75	19547.75
32	17813.25	18823.25	107	18075.75	19085.75	165	18278.75	19288.75	240	18541.25	19551.25
33	17816.75	18826.75	108	18079.25	19089.25	166	18282.25	19292.25	241	18544.75	19554.75
34	17820.25	18830.25	109	18082.75	19092.75	167	18285.75	19295.75	242	18548.25	19558.25
35	17823.75	18833.75	110	18086.25	19096.25	168	18289.25	19299.25	243	18551.75	19561.75
36	17827.25	18837.25	111	18089.75	19099.75	169	18292.75	19302.75	244	18555.25	19565.25
37	17830.75	18840.75	112	18093.25	19103.25	170	18296.25	19306.25	245	18558.75	19568.75
38	17834.25	18844.25	113	18096.75	19106.75	171	18299.75	19309.75	246	18562.25	19572.25
39	17837.75	18847.75	114	18100.25	19110.25	172	18303.25	19313.25	247	18565.75	19575.75
40	17841.25	18851.25	115	18103.75	19113.75	173	18306.75	19316.75	248	18569.25	19579.25
41	17844.75	18854.75	116	18107.25	19117.25	174	18310.25	19320.25	249	18572.75	19582.75
42	17848.25	18858.25	117	18110.75	19120.75	175	18313.75	19323.75	250	18576.25	19586.25
43	17851.75	18861.75	118	18114.25	19124.25	176	18317.25	19327.25	251	18579.75	19589.75
44	17855.25	18865.25	119	18117.75	19127.75	177	18320.75	19330.75	252	18583.25	19593.25
45	17858.75	18868.75	120	18121.25	19131.25	178	18324.25	19334.25	253	18586.75	19596.75
46	17862.25	18872.25	121	18124.75	19134.75	179	18327.75	19337.75	254	18590.25	19600.25
47	17865.75	18875.75	122	18128.25	19138.25	180	18331.25	19341.25	255	18593.75	19603.75
48	17869.25	18879.25	123	18131.75	19141.75	181	18334.75	19344.75	256	18597.25	19607.25
49	17872.75	18882.75	124	18135.25	19145.25	182	18338.25	19348.25	257	18600.75	19610.75
50	17876.25	18886.25	125	18138.75	19148.75	183	18341.75	19351.75	258	18604.25	19614.25
51	17879.75	18889.75	126	18142.25	19152.25	184	18345.25	19355.25	259	18607.75	19617.75
52	17883.25	18893.25	127	18145.75	19155.75	185	18348.75	19358.75	260	18611.25	19621.25
53	17886.75	18896.75	128	18149.25	19159.25	186	18352.25	19362.25	261	18614.75	19624.75
54	17890.25	18900.25	129	18152.75	19162.75	187	18355.75	19365.75	262	18618.25	19628.25
55	17893.75	18903.75	130	18156.25	19166.25	188	18359.25	19369.25	263	18621.75	19631.75
56	17897.25	18907.25	131	18159.75	19169.75	189	18362.75	19372.75	264	18625.25	19635.25
57	17900.75	18910.75	132	18163.25	19173.25	190	18366.25	19376.25	265	18628.75	19638.75
58	17904.25	18914.25	133	18166.75	19176.75	191	18369.75	19379.75	266	18632.25	19642.25
59	17907.75	18917.75	134	18170.25	19180.25	192	18373.25	19383.25	267	18635.75	19645.75
60	17911.25	18921.25	135	18173.75	19183.75	193	18376.75	19386.75	268	18639.25	19649.25
61	17914.75	18924.75	136	18177.25	19187.25	194	18380.25	19390.25	269	18642.75	19652.75
62	17918.25	18928.25	137	18180.75	19190.75	195	18383.75	19393.75	270	18646.25	19656.25
63	17921.75	18931.75	138	18184.25	19194.25	196	18387.25	19397.25	271	18649.75	19659.75
64	17925.25	18935.25	139	18187.75	19197.75	197	18390.75	19400.75	272	18653.25	19663.25
65	17928.75	18938.75	140	18191.25	19201.25	198	18394.25	19404.25	273	18656.75	19666.75
66	17932.25	18942.25	141	18194.75	19204.75	199	18397.75	19407.75	274	18660.25	19670.25
67	17935.75	18945.75	142	18198.25	19208.25	200	18401.25	19411.25	275	18663.75	19673.75
68	17939.25	18949.25	143	18201.75	19211.75	201	18404.75	19414.75	276	18667.25	19677.25
69	17942.75	18952.75	144	18205.25	19215.25	202	18408.25	19418.25	277	18670.75	19680.75
70	17946.25	18956.25				203	18411.75	19421.75	278	18674.25	19684.25
71	17949.75	18959.75				204	18415.25	19425.25	279	18677.75	19687.75
72	17953.25	18963.25				205	18418.75	19428.75	280	18681.25	19691.25
73	17956.75	18966.75				206	18422.25	19432.25	281	18684.75	19694.75
74	17960.25	18970.25				207	18425.75	19435.75	282	18688.25	19698.25
75	17963.75	18973.75				208	18429.25	19439.25			

Ver. 1.0

Ray2-18 - xA, Ray2-18 - xB						TX channel nominal frequencies					
Bandwidth: 3.5 MHz (S, 1008)						Band 17.7 – 19.7 GHz, duplex spacing 1008 MHz					
ITU-R F.595-9 -10, Annex 3											
A sub-band (Freq.table: rcinfo18_A_default:9)						B sub-band (Freq.table: rcinfo18_B_default:9)					
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17722.25	18730.25	75	17981.25	18989.25	130	18173.75	19181.75	204	18432.75	19440.75
2	17725.75	18733.75	76	17984.75	18992.75	131	18177.25	19185.25	205	18436.25	19444.25
3	17729.25	18737.25	77	17988.25	18996.25	132	18180.75	19188.75	206	18439.75	19447.75
4	17732.75	18740.75	78	17991.75	18999.75	133	18184.25	19192.25	207	18443.25	19451.25
5	17736.25	18744.25	79	17995.25	19003.25	134	18187.75	19195.75	208	18446.75	19454.75
6	17739.75	18747.75	80	17998.75	19006.75	135	18191.25	19199.25	209	18450.25	19458.25
7	17743.25	18751.25	81	18002.25	19010.25	136	18194.75	19202.75	210	18453.75	19461.75
8	17746.75	18754.75	82	18005.75	19013.75	137	18198.25	19206.25	211	18457.25	19465.25
9	17750.25	18758.25	83	18009.25	19017.25	138	18201.75	19209.75	212	18460.75	19468.75
10	17753.75	18761.75	84	18012.75	19020.75	139	18205.25	19213.25	213	18464.25	19472.25
11	17757.25	18765.25	85	18016.25	19024.25	140	18208.75	19216.75	214	18467.75	19475.75
12	17760.75	18768.75	86	18019.75	19027.75	141	18212.25	19220.25	215	18471.25	19479.25
13	17764.25	18772.25	87	18023.25	19031.25	142	18215.75	19223.75	216	18474.75	19482.75
14	17767.75	18775.75	88	18026.75	19034.75	143	18219.25	19227.25	217	18478.25	19486.25
15	17771.25	18779.25	89	18030.25	19038.25	144	18222.75	19230.75	218	18481.75	19489.75
16	17774.75	18782.75	90	18033.75	19041.75	145	18226.25	19234.25	219	18485.25	19493.25
17	17778.25	18786.25	91	18037.25	19045.25	146	18229.75	19237.75	220	18488.75	19496.75
18	17781.75	18789.75	92	18040.75	19048.75	147	18233.25	19241.25	221	18492.25	19500.25
19	17785.25	18793.25	93	18044.25	19052.25	148	18236.75	19244.75	222	18495.75	19503.75
20	17788.75	18796.75	94	18047.75	19055.75	149	18240.25	19248.25	223	18499.25	19507.25
21	17792.25	18800.25	95	18051.25	19059.25	150	18243.75	19251.75	224	18502.75	19510.75
22	17795.75	18803.75	96	18054.75	19062.75	151	18247.25	19255.25	225	18506.25	19514.25
23	17799.25	18807.25	97	18058.25	19066.25	152	18250.75	19258.75	226	18509.75	19517.75
24	17802.75	18810.75	98	18061.75	19069.75	153	18254.25	19262.25	227	18513.25	19521.25
25	17806.25	18814.25	99	18065.25	19073.25	154	18257.75	19265.75	228	18516.75	19524.75
26	17809.75	18817.75	100	18068.75	19076.75	155	18261.25	19269.25	229	18520.25	19528.25
27	17813.25	18821.25	101	18072.25	19080.25	156	18264.75	19272.75	230	18523.75	19531.75
28	17816.75	18824.75	102	18075.75	19083.75	157	18268.25	19276.25	231	18527.25	19535.25
29	17820.25	18828.25	103	18079.25	19087.25	158	18271.75	19279.75	232	18530.75	19538.75
30	17823.75	18831.75	104	18082.75	19090.75	159	18275.25	19283.25	233	18534.25	19542.25
31	17827.25	18835.25	105	18086.25	19094.25	160	18278.75	19286.75	234	18537.75	19545.75
32	17830.75	18838.75	106	18089.75	19097.75	161	18282.25	19290.25	235	18541.25	19549.25
33	17834.25	18842.25	107	18093.25	19101.25	162	18285.75	19293.75	236	18544.75	19552.75
34	17837.75	18845.75	108	18096.75	19104.75	163	18289.25	19297.25	237	18548.25	19556.25
35	17841.25	18849.25	109	18100.25	19108.25	164	18292.75	19300.75	238	18551.75	19559.75
36	17844.75	18852.75	110	18103.75	19111.75	165	18296.25	19304.25	239	18555.25	19563.25
37	17848.25	18856.25	111	18107.25	19115.25	166	18299.75	19307.75	240	18558.75	19566.75
38	17851.75	18859.75	112	18110.75	19118.75	167	18303.25	19311.25	241	18562.25	19570.25
39	17855.25	18863.25	113	18114.25	19122.25	168	18306.75	19314.75	242	18565.75	19573.75
40	17858.75	18866.75	114	18117.75	19125.75	169	18310.25	19318.25	243	18569.25	19577.25
41	17862.25	18870.25	115	18121.25	19129.25	170	18313.75	19321.75	244	18572.75	19580.75
42	17865.75	18873.75	116	18124.75	19132.75	171	18317.25	19325.25	245	18576.25	19584.25
43	17869.25	18877.25	117	18128.25	19136.25	172	18320.75	19328.75	246	18579.75	19587.75
44	17872.75	18880.75	118	18131.75	19139.75	173	18324.25	19332.25	247	18583.25	19591.25
45	17876.25	18884.25	119	18135.25	19143.25	174	18327.75	19335.75	248	18586.75	19594.75
46	17879.75	18887.75	120	18138.75	19146.75	175	18331.25	19339.25	249	18590.25	19598.25
47	17883.25	18891.25	121	18142.25	19150.25	176	18334.75	19342.75	250	18593.75	19601.75
48	17886.75	18894.75	122	18145.75	19153.75	177	18338.25	19346.25	251	18597.25	19605.25
49	17890.25	18898.25	123	18149.25	19157.25	178	18341.75	19349.75	252	18600.75	19608.75
50	17893.75	18901.75	124	18152.75	19160.75	179	18345.25	19353.25	253	18604.25	19612.25
51	17897.25	18905.25	125	18156.25	19164.25	180	18348.75	19356.75	254	18607.75	19615.75
52	17900.75	18908.75	126	18159.75	19167.75	181	18352.25	19360.25	255	18611.25	19619.25
53	17904.25	18912.25	127	18163.25	19171.25	182	18355.75	19363.75	256	18614.75	19622.75
54	17907.75	18915.75	128	18166.75	19174.75	183	18359.25	19367.25	257	18618.25	19626.25
55	17911.25	18919.25	129	18170.25	19178.25	184	18362.75	19370.75	258	18621.75	19629.75
56	17914.75	18922.75	130	18173.75	19181.75	185	18366.25	19374.25	259	18625.25	19633.25
57	17918.25	18926.25	131	18177.25	19185.25	186	18369.75	19377.75	260	18628.75	19636.75
58	17921.75	18929.75	132	18180.75	19188.75	187	18373.25	19381.25	261	18632.25	19640.25
59	17925.25	18933.25	133	18184.25	19192.25	188	18376.75	19384.75	262	18635.75	19643.75
60	17928.75	18936.75	134	18187.75	19195.75	189	18380.25	19388.25	263	18639.25	19647.25
61	17932.25	18940.25	135	18191.25	19199.25	190	18383.75	19391.75	264	18642.75	19650.75
62	17935.75	18943.75	136	18194.75	19202.75	191	18387.25	19395.25	265	18646.25	19654.25
63	17939.25	18947.25	137	18198.25	19206.25	192	18390.75	19398.75	266	18649.75	19657.75
64	17942.75	18950.75	138	18201.75	19209.75	193	18394.25	19402.25	267	18653.25	19661.25
65	17946.25	18954.25	139	18205.25	19213.25	194	18397.75	19405.75	268	18656.75	19664.75
66	17949.75	18957.75				195	18401.25	19409.25	269	18660.25	19668.25
67	17953.25	18961.25				196	18404.75	19412.75	270	18663.75	19671.75
68	17956.75	18964.75				197	18408.25	19416.25	271	18667.25	19675.25
69	17960.25	18968.25				198	18411.75	19419.75	272	18670.75	19678.75
70	17963.75	18971.75				199	18415.25	19423.25	273	18674.25	19682.25
71	17967.25	18975.25				200	18418.75	19426.75	274	18677.75	19685.75
72	17970.75	18978.75				201	18422.25	19430.25	275	18681.25	19689.25
73	17974.25	18982.25				202	18425.75	19433.75	276	18684.75	19692.75
74	17977.75	18985.75				203	18429.25	19437.25	277	18688.25	19696.25

Ver. 1.0

RAY2-18 - xA, RAY2-18 - xB						TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz					
Bandwidth: 5 MHz (S)						ITU-R F.595-9, Annex 4 (7.c)					
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17702.5	18712.5	53	17962.5	18972.5	95	18172.5	19182.5	147	18432.5	19442.5
2	17707.5	18717.5	54	17967.5	18977.5	96	18177.5	19187.5	148	18437.5	19447.5
3	17712.5	18722.5	55	17972.5	18982.5	97	18182.5	19192.5	149	18442.5	19452.5
4	17717.5	18727.5	56	17977.5	18987.5	98	18187.5	19197.5	150	18447.5	19457.5
5	17722.5	18732.5	57	17982.5	18992.5	99	18192.5	19202.5	151	18452.5	19462.5
6	17727.5	18737.5	58	17987.5	18997.5	100	18197.5	19207.5	152	18457.5	19467.5
7	17732.5	18742.5	59	17992.5	19002.5	101	18202.5	19212.5	153	18462.5	19472.5
8	17737.5	18747.5	60	17997.5	19007.5	102	18207.5	19217.5	154	18467.5	19477.5
9	17742.5	18752.5	61	18002.5	19012.5	103	18212.5	19222.5	155	18472.5	19482.5
10	17747.5	18757.5	62	18007.5	19017.5	104	18217.5	19227.5	156	18477.5	19487.5
11	17752.5	18762.5	63	18012.5	19022.5	105	18222.5	19232.5	157	18482.5	19492.5
12	17757.5	18767.5	64	18017.5	19027.5	106	18227.5	19237.5	158	18487.5	19497.5
13	17762.5	18772.5	65	18022.5	19032.5	107	18232.5	19242.5	159	18492.5	19502.5
14	17767.5	18777.5	66	18027.5	19037.5	108	18237.5	19247.5	160	18497.5	19507.5
15	17772.5	18782.5	67	18032.5	19042.5	109	18242.5	19252.5	161	18502.5	19512.5
16	17777.5	18787.5	68	18037.5	19047.5	110	18247.5	19257.5	162	18507.5	19517.5
17	17782.5	18792.5	69	18042.5	19052.5	111	18252.5	19262.5	163	18512.5	19522.5
18	17787.5	18797.5	70	18047.5	19057.5	112	18257.5	19267.5	164	18517.5	19527.5
19	17792.5	18802.5	71	18052.5	19062.5	113	18262.5	19272.5	165	18522.5	19532.5
20	17797.5	18807.5	72	18057.5	19067.5	114	18267.5	19277.5	166	18527.5	19537.5
21	17802.5	18812.5	73	18062.5	19072.5	115	18272.5	19282.5	167	18532.5	19542.5
22	17807.5	18817.5	74	18067.5	19077.5	116	18277.5	19287.5	168	18537.5	19547.5
23	17812.5	18822.5	75	18072.5	19082.5	117	18282.5	19292.5	169	18542.5	19552.5
24	17817.5	18827.5	76	18077.5	19087.5	118	18287.5	19297.5	170	18547.5	19557.5
25	17822.5	18832.5	77	18082.5	19092.5	119	18292.5	19302.5	171	18552.5	19562.5
26	17827.5	18837.5	78	18087.5	19097.5	120	18297.5	19307.5	172	18557.5	19567.5
27	17832.5	18842.5	79	18092.5	19102.5	121	18302.5	19312.5	173	18562.5	19572.5
28	17837.5	18847.5	80	18097.5	19107.5	122	18307.5	19317.5	174	18567.5	19577.5
29	17842.5	18852.5	81	18102.5	19112.5	123	18312.5	19322.5	175	18572.5	19582.5
30	17847.5	18857.5	82	18107.5	19117.5	124	18317.5	19327.5	176	18577.5	19587.5
31	17852.5	18862.5	83	18112.5	19122.5	125	18322.5	19332.5	177	18582.5	19592.5
32	17857.5	18867.5	84	18117.5	19127.5	126	18327.5	19337.5	178	18587.5	19597.5
33	17862.5	18872.5	85	18122.5	19132.5	127	18332.5	19342.5	179	18592.5	19602.5
34	17867.5	18877.5	86	18127.5	19137.5	128	18337.5	19347.5	180	18597.5	19607.5
35	17872.5	18882.5	87	18132.5	19142.5	129	18342.5	19352.5	181	18602.5	19612.5
36	17877.5	18887.5	88	18137.5	19147.5	130	18347.5	19357.5	182	18607.5	19617.5
37	17882.5	18892.5	89	18142.5	19152.5	131	18352.5	19362.5	183	18612.5	19622.5
38	17887.5	18897.5	90	18147.5	19157.5	132	18357.5	19367.5	184	18617.5	19627.5
39	17892.5	18902.5	91	18152.5	19162.5	133	18362.5	19372.5	185	18622.5	19632.5
40	17897.5	18907.5	92	18157.5	19167.5	134	18367.5	19377.5	186	18627.5	19637.5
41	17902.5	18912.5	93	18162.5	19172.5	135	18372.5	19382.5	187	18632.5	19642.5
42	17907.5	18917.5	94	18167.5	19177.5	136	18377.5	19387.5	188	18637.5	19647.5
43	17912.5	18922.5	95	18172.5	19182.5	137	18382.5	19392.5	189	18642.5	19652.5
44	17917.5	18927.5	96	18177.5	19187.5	138	18387.5	19397.5	190	18647.5	19657.5
45	17922.5	18932.5	97	18182.5	19192.5	139	18392.5	19402.5	191	18652.5	19662.5
46	17927.5	18937.5	98	18187.5	19197.5	140	18397.5	19407.5	192	18657.5	19667.5
47	17932.5	18942.5	99	18192.5	19202.5	141	18402.5	19412.5	193	18662.5	19672.5
48	17937.5	18947.5	100	18197.5	19207.5	142	18407.5	19417.5	194	18667.5	19677.5
49	17942.5	18952.5	101	18202.5	19212.5	143	18412.5	19422.5	195	18672.5	19682.5
50	17947.5	18957.5				144	18417.5	19427.5	196	18677.5	19687.5
51	17952.5	18962.5				145	18422.5	19432.5	197	18682.5	19692.5
52	17957.5	18967.5				146	18427.5	19437.5	198	18687.5	19697.5

Ver. 1.0

RAY2-18 - xA, RAY2-18 - xB						TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz					
Bandwidth: 7 MHz (S)						ITU-R F.595-10, Annex 5.a					
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17710	18720	37	17962	18972	67	18172	19182	104	18431	19441
2	17717	18727	38	17969	18979	68	18179	19189	105	18438	19448
3	17724	18734	39	17976	18986	69	18186	19196	106	18445	19455
4	17731	18741	40	17983	18993	70	18193	19203	107	18452	19462
5	17738	18748	41	17990	19000	71	18200	19210	108	18459	19469
6	17745	18755	42	17997	19007	72	18207	19217	109	18466	19476
7	17752	18762	43	18004	19014	73	18214	19224	110	18473	19483
8	17759	18769	44	18011	19021	74	18221	19231	111	18480	19490
9	17766	18776	45	18018	19028	75	18228	19238	112	18487	19497
10	17773	18783	46	18025	19035	76	18235	19245	113	18494	19504
11	17780	18790	47	18032	19042	77	18242	19252	114	18501	19511
12	17787	18797	48	18039	19049	78	18249	19259	115	18508	19518
13	17794	18804	49	18046	19056	79	18256	19266	116	18515	19525
14	17801	18811	50	18053	19063	80	18263	19273	117	18522	19532
15	17808	18818	51	18060	19070	81	18270	19280	118	18529	19539
16	17815	18825	52	18067	19077	82	18277	19287	119	18536	19546
17	17822	18832	53	18074	19084	83	18284	19294	120	18543	19553
18	17829	18839	54	18081	19091	84	18291	19301	121	18550	19560
19	17836	18846	55	18088	19098	85	18298	19308	122	18557	19567
20	17843	18853	56	18095	19105	86	18305	19315	123	18564	19574
21	17850	18860	57	18102	19112	87	18312	19322	124	18571	19581
22	17857	18867	58	18109	19119	88	18319	19329	125	18578	19588
23	17864	18874	59	18116	19126	89	18326	19336	126	18585	19595
24	17871	18881	60	18123	19133	90	18333	19343	127	18592	19602
25	17878	18888	61	18130	19140	91	18340	19350	128	18599	19609
26	17885	18895	62	18137	19147	92	18347	19357	129	18606	19616
27	17892	18902	63	18144	19154	93	18354	19364	130	18613	19623
28	17899	18909	64	18151	19161	94	18361	19371	131	18620	19630
29	17906	18916	65	18158	19168	95	18368	19378	132	18627	19637
30	17913	18923	66	18165	19175	96	18375	19385	133	18634	19644
31	17920	18930	67	18172	19182	97	18382	19392	134	18641	19651
32	17927	18937	68	18179	19189	98	18389	19399	135	18648	19658
33	17934	18944	69	18186	19196	99	18396	19406	136	18655	19665
34	17941	18951	70	18193	19203	100	18403	19413	137	18662	19672
35	17948	18958	71	18200	19210	101	18410	19420	138	18669	19679
36	17955	18965				102	18417	19427	139	18676	19686
						103	18424	19434	140	18683	19693

Ver. 1.0

RAy2-18 - xA, RAY2-18 - xB Bandwidth: 7 MHz (S, 1008)						TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1008 MHz ITU-R F.595-9 -10, Annex 3					
A sub-band			(Freq.table: rcinfo18_A_default:9)			B sub-band			(Freq.table: rcinfo18_B_default:9)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17724	18732	36	17969	18977	66	18179	19187	103	18438	19446
2	17731	18739	37	17976	18984	67	18186	19194	104	18445	19453
3	17738	18746	38	17983	18991	68	18193	19201	105	18452	19460
4	17745	18753	39	17990	18998	69	18200	19208	106	18459	19467
5	17752	18760	40	17997	19005	70	18207	19215	107	18466	19474
6	17759	18767	41	18004	19012	71	18214	19222	108	18473	19481
7	17766	18774	42	18011	19019	72	18221	19229	109	18480	19488
8	17773	18781	43	18018	19026	73	18228	19236	110	18487	19495
9	17780	18788	44	18025	19033	74	18235	19243	111	18494	19502
10	17787	18795	45	18032	19040	75	18242	19250	112	18501	19509
11	17794	18802	46	18039	19047	76	18249	19257	113	18508	19516
12	17801	18809	47	18046	19054	77	18256	19264	114	18515	19523
13	17808	18816	48	18053	19061	78	18263	19271	115	18522	19530
14	17815	18823	49	18060	19068	79	18270	19278	116	18529	19537
15	17822	18830	50	18067	19075	80	18277	19285	117	18536	19544
16	17829	18837	51	18074	19082	81	18284	19292	118	18543	19551
17	17836	18844	52	18081	19089	82	18291	19299	119	18550	19558
18	17843	18851	53	18088	19096	83	18298	19306	120	18557	19565
19	17850	18858	54	18095	19103	84	18305	19313	121	18564	19572
20	17857	18865	55	18102	19110	85	18312	19320	122	18571	19579
21	17864	18872	56	18109	19117	86	18319	19327	123	18578	19586
22	17871	18879	57	18116	19124	87	18326	19334	124	18585	19593
23	17878	18886	58	18123	19131	88	18333	19341	125	18592	19600
24	17885	18893	59	18130	19138	89	18340	19348	126	18599	19607
25	17892	18900	60	18137	19145	90	18347	19355	127	18606	19614
26	17899	18907	61	18144	19152	91	18354	19362	128	18613	19621
27	17906	18914	62	18151	19159	92	18361	19369	129	18620	19628
28	17913	18921	63	18158	19166	93	18368	19376	130	18627	19635
29	17920	18928	64	18165	19173	94	18375	19383	131	18634	19642
30	17927	18935	65	18172	19180	95	18382	19390	132	18641	19649
31	17934	18942	66	18179	19187	96	18389	19397	133	18648	19656
32	17941	18949	67	18186	19194	97	18396	19404	134	18655	19663
33	17948	18956	68	18193	19201	98	18403	19411	135	18662	19670
34	17955	18963	69	18200	19208	99	18410	19418	136	18669	19677
35	17962	18970				100	18417	19425	137	18676	19684
						101	18424	19432	138	18683	19691
						102	18431	19439			

Ver. 1.1

RAY2-18 - xA, RAY2-18 - xB						TX channel nominal frequencies Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz					
Bandwidth: 7.5 MHz						ITU-R F.595-10, Annex 4.2					
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)								
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17710.0	18720.0	36	17972.5	18982.5	63	18175.0	19185.0	98	18437.5	19447.5
2	17717.5	18727.5	37	17980.0	18990.0	64	18182.5	19192.5	99	18445.0	19455.0
3	17725.0	18735.0	38	17987.5	18997.5	65	18190.0	19200.0	100	18452.5	19462.5
4	17732.5	18742.5	39	17995.0	19005.0	66	18197.5	19207.5	101	18460.0	19470.0
5	17740.0	18750.0	40	18002.5	19012.5	67	18205.0	19215.0	102	18467.5	19477.5
6	17747.5	18757.5	41	18010.0	19020.0	68	18212.5	19222.5	103	18475.0	19485.0
7	17755.0	18765.0	42	18017.5	19027.5	69	18220.0	19230.0	104	18482.5	19492.5
8	17762.5	18772.5	43	18025.0	19035.0	70	18227.5	19237.5	105	18490.0	19500.0
9	17770.0	18780.0	44	18032.5	19042.5	71	18235.0	19245.0	106	18497.5	19507.5
10	17777.5	18787.5	45	18040.0	19050.0	72	18242.5	19252.5	107	18505.0	19515.0
11	17785.0	18795.0	46	18047.5	19057.5	73	18250.0	19260.0	108	18512.5	19522.5
12	17792.5	18802.5	47	18055.0	19065.0	74	18257.5	19267.5	109	18520.0	19530.0
13	17800.0	18810.0	48	18062.5	19072.5	75	18265.0	19275.0	110	18527.5	19537.5
14	17807.5	18817.5	49	18070.0	19080.0	76	18272.5	19282.5	111	18535.0	19545.0
15	17815.0	18825.0	50	18077.5	19087.5	77	18280.0	19290.0	112	18542.5	19552.5
16	17822.5	18832.5	51	18085.0	19095.0	78	18287.5	19297.5	113	18550.0	19560.0
17	17830.0	18840.0	52	18092.5	19102.5	79	18295.0	19305.0	114	18557.5	19567.5
18	17837.5	18847.5	53	18100.0	19110.0	80	18302.5	19312.5	115	18565.0	19575.0
19	17845.0	18855.0	54	18107.5	19117.5	81	18310.0	19320.0	116	18572.5	19582.5
20	17852.5	18862.5	55	18115.0	19125.0	82	18317.5	19327.5	117	18580.0	19590.0
21	17860.0	18870.0	56	18122.5	19132.5	83	18325.0	19335.0	118	18587.5	19597.5
22	17867.5	18877.5	57	18130.0	19140.0	84	18332.5	19342.5	119	18595.0	19605.0
23	17875.0	18885.0	58	18137.5	19147.5	85	18340.0	19350.0	120	18602.5	19612.5
24	17882.5	18892.5	59	18145.0	19155.0	86	18347.5	19357.5	121	18610.0	19620.0
25	17890.0	18900.0	60	18152.5	19162.5	87	18355.0	19365.0	122	18617.5	19627.5
26	17897.5	18907.5	61	18160.0	19170.0	88	18362.5	19372.5	123	18625.0	19635.0
27	17905.0	18915.0	62	18167.5	19177.5	89	18370.0	19380.0	124	18632.5	19642.5
28	17912.5	18922.5	63	18175.0	19185.0	90	18377.5	19387.5	125	18640.0	19650.0
29	17920.0	18930.0	64	18182.5	19192.5	91	18385.0	19395.0	126	18647.5	19657.5
30	17927.5	18937.5	65	18190.0	19200.0	92	18392.5	19402.5	127	18655.0	19665.0
31	17935.0	18945.0	66	18197.5	19207.5	93	18400.0	19410.0	128	18662.5	19672.5
32	17942.5	18952.5	67	18205.0	19215.0	94	18407.5	19417.5	129	18670.0	19680.0
33	17950.0	18960.0				95	18415.0	19425.0	130	18677.5	19687.5
34	17957.5	18967.5				96	18422.5	19432.5	131	18685.0	19695.0
35	17965.0	18975.0				97	18430.0	19440.0			

Ver. 1.0

RAy2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies		
Bandwidth: 13.75 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz		
			CEPT 12-03 E, Annex A, ITU-R F.595-9 -10, Annex 4 (6.a)		
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17713.75	18723.75	35	18181.25	19191.25
2	17727.50	18737.50	36	18195.00	19205.00
3	17741.25	18751.25	37	18208.75	19218.75
4	17755.00	18765.00	38	18222.50	19232.50
5	17768.75	18778.75	39	18236.25	19246.25
6	17782.50	18792.50	40	18250.00	19260.00
7	17796.25	18806.25	41	18263.75	19273.75
8	17810.00	18820.00	42	18277.50	19287.50
9	17823.75	18833.75	43	18291.25	19301.25
10	17837.50	18847.50	44	18305.00	19315.00
11	17851.25	18861.25	45	18318.75	19328.75
12	17865.00	18875.00	46	18332.50	19342.50
13	17878.75	18888.75	47	18346.25	19356.25
14	17892.50	18902.50	48	18360.00	19370.00
15	17906.25	18916.25	49	18373.75	19383.75
16	17920.00	18930.00	50	18387.50	19397.50
17	17933.75	18943.75	51	18401.25	19411.25
18	17947.50	18957.50	52	18415.00	19425.00
19	17961.25	18971.25	53	18428.75	19438.75
20	17975.00	18985.00	54	18442.50	19452.50
21	17988.75	18998.75	55	18456.25	19466.25
22	18002.50	19012.50	56	18470.00	19480.00
24	18030.00	19040.00	58	18497.50	19507.50
25	18043.75	19053.75	59	18511.25	19521.25
26	18057.50	19067.50	60	18525.00	19535.00
27	18071.25	19081.25	61	18538.75	19548.75
28	18085.00	19095.00	62	18552.50	19562.50
29	18098.75	19108.75	63	18566.25	19576.25
30	18112.50	19122.50	64	18580.00	19590.00
31	18126.25	19136.25	65	18593.75	19603.75
32	18140.00	19150.00	66	18607.50	19617.50
33	18153.75	19163.75	67	18621.25	19631.25
34	18167.50	19177.50	68	18635.00	19645.00
35	18181.25	19191.25	69	18648.75	19658.75
36	18195.00	19205.00	70	18662.50	19672.50
			71	18676.25	19686.25

Ver. 1.0

RAy2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies		
Bandwidth: 27.5 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz		
CEPT 12-03 E, Annex A, ITU-R F.595-9 -10, rec. 1.1.3					
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17727.5	18737.5	18	18195.0	19205.0
2	17755.0	18765.0	19	18222.5	19232.5
3	17782.5	18792.5	20	18250.0	19260.0
4	17810.0	18820.0	21	18277.5	19287.5
5	17837.5	18847.5	22	18305.0	19315.0
6	17865.0	18875.0	23	18332.5	19342.5
7	17892.5	18902.5	24	18360.0	19370.0
8	17920.0	18930.0	25	18387.5	19397.5
9	17947.5	18957.5	26	18415.0	19425.0
10	17975.0	18985.0	27	18442.5	19452.5
11	18002.5	19012.5	28	18470.0	19480.0
12	18030.0	19040.0	29	18497.5	19507.5
13	18057.5	19067.5	30	18525.0	19535.0
14	18085.0	19095.0	31	18552.5	19562.5
15	18112.5	19122.5	32	18580.0	19590.0
16	18140.0	19150.0	33	18607.5	19617.5
17	18167.5	19177.5	34	18635.0	19645.0
18	18195.0	19205.0	35	18662.5	19672.5

Ver. 1.1

RAy2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies		
Bandwidth: 55 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz		
CEPT 12-03 E, Annex A, ITU-R F.595-9 -10, rec. 1.1.4					
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17755	18765	9	18195	19205
2	17810	18820	10	18250	19260
3	17865	18875	11	18305	19315
4	17920	18930	12	18360	19370
5	17975	18985	13	18415	19425
6	18030	19040	14	18470	19480
7	18085	19095	15	18525	19535
8	18140	19150	16	18580	19590
			17	18635	19645

Ver. 1.0

RAy2-18 - xA, RAY2-18 - xB			TX channel nominal frequencies		
Bandwidth: 55 MHz (Indonesia)			Band 17.7 – 19.7 GHz, duplex spacing 1010 MHz		
			ITU-R F.595-9 -10, Annex 6		
A sub-band (Freq.table: rcinfo18_A_default:9)			B sub-band (Freq.table: rcinfo18_B_default:9)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
			1	18332.5	19342.5
			2	18387.5	19397.5
			3	18442.5	19452.5
			4	18497.5	19507.5
			5	18552.5	19562.5
			6	18607.5	19617.5
			7	18662.5	19672.5

Ver. 1.0

2.8. RAY2-18, duplex 1560 MHz, FCC

RAY2-18 - xC			TX channel nominal frequencies		
Bandwidth: 2.5 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	18061.25	19621.25	17	18101.25	19661.25
2	18063.75	19623.75	18	18103.75	19663.75
3	18066.25	19626.25	19	18106.25	19666.25
4	18068.75	19628.75	20	18108.75	19668.75
5	18071.25	19631.25	21	18111.25	19671.25
6	18073.75	19633.75	22	18113.75	19673.75
7	18076.25	19636.25	23	18116.25	19676.25
8	18078.75	19638.75	24	18118.75	19678.75
9	18081.25	19641.25	25	18121.25	19681.25
10	18083.75	19643.75	26	18123.75	19683.75
11	18086.25	19646.25	27	18126.25	19686.25
12	18088.75	19648.75	28	18128.75	19688.75
13	18091.25	19651.25	29	18131.25	19691.25
14	18093.75	19653.75	30	18133.75	19693.75
15	18096.25	19656.25	31	18136.25	19696.25
16	18098.75	19658.75	32	18138.75	19698.75

Ver. 1.0

RAY2-18 - xC			TX channel nominal frequencies		
Bandwidth: 5 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	18062.5	19622.5	9	18102.5	19662.5
2	18067.5	19627.5	10	18107.5	19667.5
3	18072.5	19632.5	11	18112.5	19672.5
4	18077.5	19637.5	12	18117.5	19677.5
5	18082.5	19642.5	13	18122.5	19682.5
6	18087.5	19647.5	14	18127.5	19687.5
7	18092.5	19652.5	15	18132.5	19692.5
8	18097.5	19657.5	16	18137.5	19697.5

Ver. 1.0

RAy2-18 - xC			TX channel nominal frequencies		
Bandwidth: 10 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17745	19305	21	17945	19505
2	17755	19315	22	17955	19515
3	17765	19325	23	17965	19525
4	17775	19335	24	17975	19535
5	17785	19345	25	17985	19545
6	17795	19355	26	17995	19555
7	17805	19365	27	18005	19565
8	17815	19375	28	18015	19575
9	17825	19385	29	18025	19585
10	17835	19395	30	18035	19595
11	17845	19405	31	18045	19605
12	17855	19415	32	18055	19615
13	17865	19425	33	18065	19625
14	17875	19435	34	18075	19635
15	17885	19445	35	18085	19645
16	17895	19455	36	18095	19655
17	17905	19465	37	18105	19665
18	17915	19475	38	18115	19675
19	17925	19485	39	18125	19685
20	17935	19495	40	18135	19695

Ver. 1.0

RAy2-18 - xC			TX channel nominal frequencies		
Bandwidth: 20 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17750	19310	11	17950	19510
2	17770	19330	12	17970	19530
3	17790	19350	13	17990	19550
4	17810	19370	14	18010	19570
5	17830	19390	15	18030	19590
6	17850	19410	16	18050	19610
7	17870	19430	17	18070	19630
8	17890	19450	18	18090	19650
9	17910	19470	19	18110	19670
10	17930	19490	20	18130	19690

Ver. 1.0

RAy2-18 - xC			TX channel nominal frequencies		
Bandwidth: 30 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17755	19315	8	17965	19525
2	17785	19345	9	17995	19555
3	17815	19375	10	18025	19585
4	17845	19405	11	18055	19615
5	17875	19435	12	18085	19645
6	17905	19465	13	18115	19675
7	17935	19495			

Ver. 1.0

RAy2-18 - xC			TX channel nominal frequencies		
Bandwidth: 40 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17760	19320	6	17960	19520
2	17800	19360	7	18000	19560
3	17840	19400	8	18040	19600
4	17880	19440	9	18080	19640
5	17920	19480	10	18120	19680

Ver. 1.0

RAy2-18 - xC			TX channel nominal frequencies		
Bandwidth: 50 MHz			Band 17.7 – 19.7 GHz, duplex spacing 1560 MHz		
			FCC, Part 101.147		
C sub-band			(Freq.table: rcinfo18_C_default:5)		
Ch.No.	Lower [MHz]	Upper [MHz]	Ch.No.	Lower [MHz]	Upper [MHz]
1	17765	19325	5	17965	19525
2	17815	19375	6	18015	19575
3	17865	19425	7	18065	19625
4	17915	19475	8	18115	19675

Ver. 1.0

2.9. RAY2-24, pásmo 24.00-24.25 GHz

RAY2-24				TX channel nominal frequencies			
				Band 24.00 – 24.25 GHz, default duplex sp. 73.5 MHz			
Bandwidth: 3.5 MHz				duplex spacing range 63 – 238 MHz			
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U19	24069.0	no more channels			
		U20	24072.5				
		U21	24076.0				
L1	24006.0	U22	24079.5				
L2	24009.5	U23	24083.0				
L3	24013.0	U24	24086.5				
L4	24016.5	U25	24090.0				
L5	24020.0	U26	24093.5				
L6	24023.5	U27	24097.0				
L7	24027.0	U28	24100.5				
L8	24030.5	U29	24104.0				
L9	24034.0	U30	24107.5				
L10	24037.5	U31	24111.0				
L11	24041.0	U32	24114.5				
L12	24044.5	U33	24118.0				
L13	24048.0	U34	24121.5				
L14	24051.5	U35	24125.0				
L15	24055.0	U36	24128.5				
L16	24058.5	U37	24132.0				
L17	24062.0	U38	24135.5				
L18	24065.5	U39	24139.0				
L19	24069.0	U40	24142.5				
L20	24072.5	U41	24146.0				
L21	24076.0	U42	24149.5				
L22	24079.5	U43	24153.0				
L23	24083.0	U44	24156.5				
L24	24086.5	U45	24160.0				
L25	24090.0	U46	24163.5				
L26	24093.5	U47	24167.0				
L27	24097.0	U48	24170.5				
L28	24100.5	U49	24174.0				
L29	24104.0	U50	24177.5				
L30	24107.5	U51	24181.0				
L31	24111.0	U52	24184.5				
L32	24114.5	U53	24188.0				
L33	24118.0	U54	24191.5				
L34	24121.5	U55	24195.0				
L35	24125.0	U56	24198.5				
L36	24128.5	U57	24202.0				
L37	24132.0	U58	24205.5				
L38	24135.5	U59	24209.0				
L39	24139.0	U60	24212.5				
L40	24142.5	U61	24216.0				
L41	24146.0	U62	24219.5				
L42	24149.5	U63	24223.0				
L43	24153.0	U64	24226.5				
L44	24156.5	U65	24230.0				
L45	24160.0	U66	24233.5				
L46	24163.5	U67	24237.0				
L47	24167.0	U68	24240.5				
L48	24170.5	U69	24244.0				
L49	24174.0						
L50	24177.5						
L51	24181.0						

ver. 2.2

RAY2-24		TX channel nominal frequencies					
Bandwidth: 7 MHz		Band 24.00 – 24.25 GHz, default duplex sp. 73.5 MHz					
		duplex spacing range 63 – 238 MHz					
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U19	24069.0			U20	24072.5
		U21	24076.0				
L2	24009.5	U23	24083.0	L1	24006.0	U22	24079.5
L4	24016.5	U25	24090.0	L3	24013.0	U24	24086.5
L6	24023.5	U27	24097.0	L5	24020.0	U26	24093.5
L8	24030.5	U29	24104.0	L7	24027.0	U28	24100.5
L10	24037.5	U31	24111.0	L9	24034.0	U30	24107.5
L12	24044.5	U33	24118.0	L11	24041.0	U32	24114.5
L14	24051.5	U35	24125.0	L13	24048.0	U34	24121.5
L16	24058.5	U37	24132.0	L15	24055.0	U36	24128.5
L18	24065.5	U39	24139.0	L17	24062.0	U38	24135.5
L20	24072.5	U41	24146.0	L19	24069.0	U40	24142.5
L22	24079.5	U43	24153.0	L21	24076.0	U42	24149.5
L24	24086.5	U45	24160.0	L23	24083.0	U44	24156.5
L26	24093.5	U47	24167.0	L25	24090.0	U46	24163.5
L28	24100.5	U49	24174.0	L27	24097.0	U48	24170.5
L30	24107.5	U51	24181.0	L29	24104.0	U50	24177.5
L32	24114.5	U53	24188.0	L31	24111.0	U52	24184.5
L34	24121.5	U55	24195.0	L33	24118.0	U54	24191.5
L36	24128.5	U57	24202.0	L35	24125.0	U56	24198.5
L38	24135.5	U59	24209.0	L37	24132.0	U58	24205.5
L40	24142.5	U61	24216.0	L39	24139.0	U60	24212.5
L42	24149.5	U63	24223.0	L41	24146.0	U62	24219.5
L44	24156.5	U65	24230.0	L43	24153.0	U64	24226.5
L46	24163.5	U67	24237.0	L45	24160.0	U66	24233.5
L48	24170.5	U69	24244.0	L47	24167.0	U68	24240.5
L50	24177.5			L49	24174.0		
				L51	24181.0		

ver. 2.1

RAY2-24				TX channel nominal frequencies			
Bandwidth: 14 MHz				Band 24.00 – 24.25 GHz, default duplex sp. 87.5 MHz			
				duplex spacing range 66.5 – 231 MHz			
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U24	24086.5			U21	24076.0
						U22	24079.5
						U23	24083.0
L3	24013.0	U28	24100.5			U25	24090.0
						U26	24093.5
				L2	24009.5	U27	24097.0
				L4	24016.5	U29	24104.0
				L5	24020.0	U30	24107.5
				L6	24023.5	U31	24111.0
L7	24027.0	U32	24114.5				
				L8	24030.5	U33	24118.0
				L9	24034.0	U34	24121.5
				L10	24037.5	U35	24125.0
				L12	24044.5	U37	24132.0
				L13	24048.0	U38	24135.5
L15	24055.0	U40	24142.5	L14	24051.5	U39	24139.0
				L16	24058.5	U41	24146.0
				L17	24062.0	U42	24149.5
				L18	24065.5	U43	24153.0
				L20	24072.5	U45	24160.0
				L21	24076.0	U46	24163.5
L19	24069.0	U44	24156.5	L22	24079.5	U47	24167.0
				L24	24086.5	U49	24174.0
				L25	24090.0	U50	24177.5
				L26	24093.5	U51	24181.0
				L28	24100.5	U53	24188.0
				L29	24104.0	U54	24191.5
L31	24111.0	U56	24198.5	L30	24107.5	U55	24195.0
				L32	24114.5	U57	24202.0
				L33	24118.0	U58	24205.5
				L34	24121.5	U59	24209.0
				L36	24128.5	U61	24216.0
				L37	24132.0	U62	24219.5
L35	24125.0	U60	24212.5	L38	24135.5	U63	24223.0
				L40	24142.5	U65	24230.0
				L41	24146.0	U66	24233.5
				L42	24149.5	U67	24237.0
				L44	24156.5		
				L45	24160.0		
L39	24139.0	U64	24226.5	L46	24163.5		
				L48	24170.5		
				L49	24174.0		
L43	24153.0	U68	24240.5				
L47	24167.0						

ver. 2.1

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.25 GHz, default duplex sp. 84 MHz					
Bandwidth: 28 MHz		duplex spacing range 70 – 217 MHz					
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
						U24	24086.5
						U25	24090.0
		U26	24093.5			U27	24097.0
				L4	24016.5	U28	24100.5
				L5	24020.0	U29	24104.0
				L6	24023.5	U30	24107.5
				L7	24027.0	U31	24111.0
				L8	24030.5	U32	24114.5
				L9	24034.0	U33	24118.0
L10	24037.5	U34	24121.5				
				L11	24041.0	U35	24125.0
				L12	24044.5	U36	24128.5
				L13	24048.0	U37	24132.0
				L14	24051.5	U38	24135.5
				L15	24055.0	U39	24139.0
				L16	24058.5	U40	24142.5
				L17	24062.0	U41	24146.0
L18	24065.5	U42	24149.5				
				L19	24069.0	U43	24153.0
				L20	24072.5	U44	24156.5
				L21	24076.0	U45	24160.0
				L22	24079.5	U46	24163.5
				L23	24083.0	U47	24167.0
				L24	24086.5	U48	24170.5
				L25	24090.0	U49	24174.0
L26	24093.5	U50	24177.5				
				L27	24097.0	U51	24181.0
				L28	24100.5	U52	24184.5
				L29	24104.0	U53	24188.0
				L30	24107.5	U54	24191.5
				L31	24111.0	U55	24195.0
				L32	24114.5	U56	24198.5
				L33	24118.0	U57	24202.0
L34	24121.5	U58	24205.5				
				L35	24125.0	U59	24209.0
				L36	24128.5	U60	24212.5
				L37	24132.0	U61	24216.0
				L38	24135.5	U62	24219.5
				L39	24139.0	U63	24223.0
				L40	24142.5	U64	24226.5
				L41	24146.0	U65	24230.0
L42	24149.5	U66	24233.5				
				L43	24153.0		
				L44	24156.5		
				L45	24160.0		
				L46	24163.5		

ver. 2.1

RAY2-24				TX channel nominal frequencies			
Bandwidth: 40 MHz				Band 24.00 – 24.25 GHz, default duplex sp. 70 MHz			
				duplex spacing range 70 – 203 MHz			
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L8	24030.5	U28	24100.5	L6	24023.5	U26	24093.5
				L7	24027.0	U27	24097.0
				L9	24034.0	U29	24104.0
				L10	24037.5	U30	24107.5
				L11	24041.0	U31	24111.0
				L12	24044.5	U32	24114.5
				L13	24048.0	U33	24118.0
				L14	24051.5	U34	24121.5
				L15	24055.0	U35	24125.0
				L16	24058.5	U36	24128.5
L20	24072.5	U40	24142.5	L17	24062.0	U37	24132.0
				L18	24065.5	U38	24135.5
				L19	24069.0	U39	24139.0
				L21	24076.0	U41	24146.0
				L22	24079.5	U42	24149.5
				L23	24083.0	U43	24153.0
				L24	24086.5	U44	24156.5
				L25	24090.0	U45	24160.0
				L26	24093.5	U46	24163.5
				L27	24097.0	U47	24167.0
L32	24114.5	U52	24184.5	L28	24100.5	U48	24170.5
				L29	24104.0	U49	24174.0
				L30	24107.5	U50	24177.5
				L31	24111.0	U51	24181.0
				L33	24118.0	U53	24188.0
				L34	24121.5	U54	24191.5
				L35	24125.0	U55	24195.0
				L36	24128.5	U56	24198.5
				L37	24132.0	U57	24202.0
				L38	24135.5	U58	24205.5
L44	24156.5	U64	24226.5	L39	24139.0	U59	24209.0
				L40	24142.5	U60	24212.5
				L41	24146.0	U61	24216.0
				L42	24149.5	U62	24219.5
				L43	24153.0	U63	24223.0

ver. 2.1

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.25 GHz, default duplex sp. 87.5 MHz					
Bandwidth: 50 MHz		duplex spacing range 84 – 196 MHz					
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L8	24030.5	U33	24118.0			U31	24111.0
				L7	24027.0	U32	24114.5
				L9	24034.0	U34	24121.5
				L10	24037.5	U35	24125.0
				L11	24041.0	U36	24128.5
				L12	24044.5	U37	24132.0
				L13	24048.0	U38	24135.5
				L14	24051.5	U39	24139.0
				L15	24055.0	U40	24142.5
				L16	24058.5	U41	24146.0
L23	24083.0	U48	24170.5	L17	24062.0	U42	24149.5
				L18	24065.5	U43	24153.0
				L19	24069.0	U44	24156.5
				L20	24072.5	U45	24160.0
				L21	24076.0	U46	24163.5
				L22	24079.5	U47	24167.0
				L24	24086.5	U49	24174.0
				L25	24090.0	U50	24177.5
				L26	24093.5	U51	24181.0
				L27	24097.0	U52	24184.5
L38	24135.5	U63	24223.0	L28	24100.5	U53	24188.0
				L29	24104.0	U54	24191.5
				L30	24107.5	U55	24195.0
				L31	24111.0	U56	24198.5
				L32	24114.5	U57	24202.0
				L33	24118.0	U58	24205.5
				L34	24121.5	U59	24209.0
				L35	24125.0	U60	24212.5
				L36	24128.5	U61	24216.0
				L37	24132.0	U62	24219.5
		L39	24139.0				

ver. 1.0

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.25 GHz, default duplex sp. 84 MHz					
Bandwidth: 56 MHz		duplex spacing range 84 – 189 MHz					
(Freq.table: rcinfo24_ISM250_default:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
				L8	24030.5	U32	24114.5
				L9	24034.0	U33	24118.0
				L10	24037.5	U34	24121.5
				L11	24041.0	U35	24125.0
				L12	24044.5	U36	24128.5
				L13	24048.0	U37	24132.0
				L14	24051.5	U38	24135.5
				L15	24055.0	U39	24139.0
				L16	24058.5	U40	24142.5
				L17	24062.0	U41	24146.0
				L18	24065.5	U42	24149.5
				L19	24069.0	U43	24153.0
				L20	24072.5	U44	24156.5
				L21	24076.0	U45	24160.0
L22	24079.5	U46	24163.5				
				L23	24083.0	U47	24167.0
				L24	24086.5	U48	24170.5
				L25	24090.0	U49	24174.0
				L26	24093.5	U50	24177.5
				L27	24097.0	U51	24181.0
				L28	24100.5	U52	24184.5
				L29	24104.0	U53	24188.0
				L30	24107.5	U54	24191.5
				L31	24111.0	U55	24195.0
				L32	24114.5	U56	24198.5
				L33	24118.0	U57	24202.0
				L34	24121.5	U58	24205.5
				L35	24125.0	U59	24209.0
				L36	24128.5	U60	24212.5
				L37	24132.0	U61	24216.0
L38	24135.5	U62	24219.5				

ver. 2.1

2.10. RAY2-24, pásmo 24.05-24.25 GHz

RAY2-24		TX channel nominal frequencies					
Bandwidth: 3.5 MHz		Band 24.05 – 24.25 GHz, default duplex sp. 73.5 MHz					
		duplex spacing range 63 – 189 MHz					
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U33	24118.0	no more channels			
		U34	24121.5				
		U35	24125.0				
L15	24055.0	U36	24128.5				
L16	24058.5	U37	24132.0				
L17	24062.0	U38	24135.5				
L18	24065.5	U39	24139.0				
L19	24069.0	U40	24142.5				
L20	24072.5	U41	24146.0				
L21	24076.0	U42	24149.5				
L22	24079.5	U43	24153.0				
L23	24083.0	U44	24156.5				
L24	24086.5	U45	24160.0				
L25	24090.0	U46	24163.5				
L26	24093.5	U47	24167.0				
L27	24097.0	U48	24170.5				
L28	24100.5	U49	24174.0				
L29	24104.0	U50	24177.5				
L30	24107.5	U51	24181.0				
L31	24111.0	U52	24184.5				
L32	24114.5	U53	24188.0				
L33	24118.0	U54	24191.5				
L34	24121.5	U55	24195.0				
L35	24125.0	U56	24198.5				
L36	24128.5	U57	24202.0				
L37	24132.0	U58	24205.5				
L38	24135.5	U59	24209.0				
L39	24139.0	U60	24212.5				
L40	24142.5	U61	24216.0				
L41	24146.0	U62	24219.5				
L42	24149.5	U63	24223.0				
L43	24153.0	U64	24226.5				
L44	24156.5	U65	24230.0				
L45	24160.0	U66	24233.5				
L46	24163.5	U67	24237.0				
L47	24167.0	U68	24240.5				
L48	24170.5	U69	24244.0				
L49	24174.0						
L50	24177.5						
L51	24181.0						

ver. 2.2

RAy2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 73.5 MHz					
Bandwidth: 7 MHz		duplex spacing range 63 – 189 MHz					
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U33	24118.0			U34	24121.5
		U35	24125.0				
L16	24058.5	U37	24132.0	L15	24055.0	U36	24128.5
L18	24065.5	U39	24139.0	L17	24062.0	U38	24135.5
L20	24072.5	U41	24146.0	L19	24069.0	U40	24142.5
L22	24079.5	U43	24153.0	L21	24076.0	U42	24149.5
L24	24086.5	U45	24160.0	L23	24083.0	U44	24156.5
L26	24093.5	U47	24167.0	L25	24090.0	U46	24163.5
L28	24100.5	U49	24174.0	L27	24097.0	U48	24170.5
L30	24107.5	U51	24181.0	L29	24104.0	U50	24177.5
L32	24114.5	U53	24188.0	L31	24111.0	U52	24184.5
L34	24121.5	U55	24195.0	L33	24118.0	U54	24191.5
L36	24128.5	U57	24202.0	L35	24125.0	U56	24198.5
L38	24135.5	U59	24209.0	L37	24132.0	U58	24205.5
L40	24142.5	U61	24216.0	L39	24139.0	U60	24212.5
L42	24149.5	U63	24223.0	L41	24146.0	U62	24219.5
L44	24156.5	U65	24230.0	L43	24153.0	U64	24226.5
L46	24163.5	U67	24237.0	L45	24160.0	U66	24233.5
L48	24170.5	U69	24244.0	L47	24167.0	U68	24240.5
L50	24177.5			L49	24174.0		
				L51	24181.0		

ver. 2.1

RAy2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 84 MHz					
Bandwidth: 10 MHz		duplex spacing range 66.5 – 182 MHz					
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U35	24125.0			U36	24128.5
						U37	24132.0
		U38	24135.5			U39	24139.0
				L16	24058.5	U40	24142.5
L17	24062.0	U41	24146.0	L18	24065.5	U42	24149.5
				L19	24069.0	U43	24153.0
L20	24072.5	U44	24156.5	L21	24076.0	U45	24160.0
				L22	24079.5	U46	24163.5
L23	24083.0	U47	24167.0	L24	24086.5	U48	24170.5
				L25	24090.0	U49	24174.0
L26	24093.5	U50	24177.5	L27	24097.0	U51	24181.0
				L28	24100.5	U52	24184.5
L29	24104.0	U53	24188.0	L30	24107.5	U54	24191.5
				L31	24111.0	U55	24195.0
L32	24114.5	U56	24198.5	L33	24118.0	U57	24202.0
				L34	24121.5	U58	24205.5
L35	24125.0	U59	24209.0	L36	24128.5	U60	24212.5
				L37	24132.0	U61	24216.0
L38	24135.5	U62	24219.5	L39	24139.0	U63	24223.0
				L40	24142.5	U64	24226.5
L41	24146.0	U65	24230.0	L42	24149.5	U66	24233.5
				L43	24153.0	U67	24237.0
L44	24156.5	U68	24240.5	L45	24160.0		
				L46	24163.5		
L47	24167.0			L48	24170.5		
				L49	24174.0		

ver. 1.1

RAy2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 87.5 MHz					
Bandwidth: 14 MHz				duplex spacing range 66.5 – 182 MHz			
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U36	24128.5			U35	24125.0
						U37	24132.0
						U38	24135.5
						U39	24139.0
		U40	24142.5				
				L16	24058.5	U41	24146.0
				L17	24062.0	U42	24149.5
				L18	24065.5	U43	24153.0
L19	24069.0	U44	24156.5				
				L20	24072.5	U45	24160.0
				L21	24076.0	U46	24163.5
				L22	24079.5	U47	24167.0
L23	24083.0	U48	24170.5				
				L24	24086.5	U49	24174.0
				L25	24090.0	U50	24177.5
				L26	24093.5	U51	24181.0
L27	24097.0	U52	24184.5				
				L28	24100.5	U53	24188.0
				L29	24104.0	U54	24191.5
				L30	24107.5	U55	24195.0
L31	24111.0	U56	24198.5				
				L32	24114.5	U57	24202.0
				L33	24118.0	U58	24205.5
				L34	24121.5	U59	24209.0
L35	24125.0	U60	24212.5				
				L36	24128.5	U61	24216.0
				L37	24132.0	U62	24219.5
				L38	24135.5	U63	24223.0
L39	24139.0	U64	24226.5				
				L40	24142.5	U65	24230.0
				L41	24146.0	U66	24233.5
				L42	24149.5	U67	24237.0
L43	24153.0	U68	24240.5				
				L44	24156.5		
				L45	24160.0		
				L46	24163.5		
L47	24167.0						
				L48	24170.5		
				L49	24174.0		

ver. 2.1

RAy2-24	TX channel nominal frequencies							
	Band 24.05 – 24.25 GHz, default duplex sp. 84 MHz							
	duplex spacing range 70 – 175 MHz							
Bandwidth: 20 MHz								
(Freq.table: rcinfo24_ISM200:15)								
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
		U37	24132.0			U38	24135.5	
						U39	24139.0	
						U40	24142.5	
				L17	24062.0	U41	24146.0	
				L18	24065.5	U42	24149.5	
L19	24069.0	U43	24153.0					
				L20	24072.5	U44	24156.5	
				L21	24076.0	U45	24160.0	
				L22	24079.5	U46	24163.5	
				L23	24083.0	U47	24167.0	
				L24	24086.5	U48	24170.5	
L25	24090.0	U49	24174.0					
				L26	24093.5	U50	24177.5	
				L27	24097.0	U51	24181.0	
				L28	24100.5	U52	24184.5	
				L29	24104.0	U53	24188.0	
				L30	24107.5	U54	24191.5	
L31	24111.0	U55	24195.0					
				L32	24114.5	U56	24198.5	
				L33	24118.0	U57	24202.0	
				L34	24121.5	U58	24205.5	
				L35	24125.0	U59	24209.0	
				L36	24128.5	U60	24212.5	
L37	24132.0	U61	24216.0					
				L38	24135.5	U62	24219.5	
				L39	24139.0	U63	24223.0	
				L40	24142.5	U64	24226.5	
				L41	24146.0	U65	24230.0	
				L42	24149.5	U66	24233.5	
L43	24153.0	U67	24237.0					
				L44	24156.5			
				L45	24160.0			
				L46	24163.5			
				L47	24167.0			

ver. 1.0

RAy2-24		TX channel nominal frequencies					
Bandwidth: 28 MHz		Band 24.05 – 24.25 GHz, default duplex sp. 84 MHz					
		duplex spacing range 70 – 168 MHz					
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L18	24065.5	U42	24149.5			U38	24135.5
						U39	24139.0
						U40	24142.5
						U41	24146.0
L26	24093.5	U50	24177.5	L19	24069.0	U43	24153.0
				L20	24072.5	U44	24156.5
				L21	24076.0	U45	24160.0
				L22	24079.5	U46	24163.5
				L23	24083.0	U47	24167.0
				L24	24086.5	U48	24170.5
				L25	24090.0	U49	24174.0
				L27	24097.0	U51	24181.0
				L28	24100.5	U52	24184.5
L34	24121.5	U58	24205.5	L29	24104.0	U53	24188.0
				L30	24107.5	U54	24191.5
				L31	24111.0	U55	24195.0
				L32	24114.5	U56	24198.5
				L33	24118.0	U57	24202.0
				L35	24125.0	U59	24209.0
				L36	24128.5	U60	24212.5
				L37	24132.0	U61	24216.0
				L38	24135.5	U62	24219.5
L42	24149.5	U66	24233.5	L39	24139.0	U63	24223.0
				L40	24142.5	U64	24226.5
				L41	24146.0	U65	24230.0
				L43	24153.0		
				L44	24156.5		
				L45	24160.0		
				L46	24163.5		

ver. 2.1

RAy2-24				TX channel nominal frequencies			
Bandwidth: 40 MHz				Band 24.05 – 24.25 GHz, default duplex sp. 70 MHz			
duplex spacing range 70 – 154 MHz							
(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L20	24072.5	U40	24142.5	L21	24076.0	U41	24146.0
				L22	24079.5	U42	24149.5
				L23	24083.0	U43	24153.0
				L24	24086.5	U44	24156.5
				L25	24090.0	U45	24160.0
				L26	24093.5	U46	24163.5
				L27	24097.0	U47	24167.0
				L28	24100.5	U48	24170.5
				L29	24104.0	U49	24174.0
				L30	24107.5	U50	24177.5
				L31	24111.0	U51	24181.0
L32	24114.5	U52	24184.5	L33	24118.0	U53	24188.0
				L34	24121.5	U54	24191.5
				L35	24125.0	U55	24195.0
				L36	24128.5	U56	24198.5
				L37	24132.0	U57	24202.0
				L38	24135.5	U58	24205.5
				L39	24139.0	U59	24209.0
				L40	24142.5	U60	24212.5
				L41	24146.0	U61	24216.0
				L42	24149.5	U62	24219.5
				L43	24153.0	U63	24223.0
L44	24156.5	U64	24226.5				

ver. 2.1

RAy2-24	TX channel nominal frequencies							
	Band 24.05 – 24.25 GHz, default duplex sp. 87.5 MHz							
	Bandwidth: 50 MHz				duplex spacing range 84 – 143.5 MHz			
	(Freq.table: rcinfo24_ISM200:15)							
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L23	24083.0	U48	24170.5	L22	24079.5	U46	24163.5	
						U47	24167.0	
				L24	24086.5	U49	24174.0	
				L25	24090.0	U50	24177.5	
				L26	24093.5	U51	24181.0	
				L27	24097.0	U52	24184.5	
				L28	24100.5	U53	24188.0	
				L29	24104.0	U54	24191.5	
				L30	24107.5	U55	24195.0	
				L31	24111.0	U56	24198.5	
				L32	24114.5	U57	24202.0	
				L33	24118.0	U58	24205.5	
				L34	24121.5	U59	24209.0	
				L35	24125.0	U60	24212.5	
				L36	24128.5	U61	24216.0	
				L37	24132.0	U62	24219.5	
				L38	24135.5	U63	24223.0	L39

ver. 1.1

RAy2-24	TX channel nominal frequencies							
	Band 24.05 – 24.25 GHz, default duplex sp. 84 MHz							
	Bandwidth: 56 MHz				duplex spacing range 84 – 140 MHz			
(Freq.table: rcinfo24_ISM200:15)								
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L22	24079.5	U46	24163.5					
				L23	24083.0	U47	24167.0	
				L24	24086.5	U48	24170.5	
				L25	24090.0	U49	24174.0	
				L26	24093.5	U50	24177.5	
				L27	24097.0	U51	24181.0	
				L28	24100.5	U52	24184.5	
				L29	24104.0	U53	24188.0	
				L30	24107.5	U54	24191.5	
				L31	24111.0	U55	24195.0	
				L32	24114.5	U56	24198.5	
				L33	24118.0	U57	24202.0	
				L34	24121.5	U58	24205.5	
				L35	24125.0	U59	24209.0	
				L36	24128.5	U60	24212.5	
				L37	24132.0	U61	24216.0	
L38	24135.5	U62	24219.5					

ver. 2.1

2.11. RAY2-24, pásmo 24.05-24.25 GHz, FCC

RAY2-24		TX channel nominal frequencies			
Bandwidth: 5 MHz		Band 24.05 – 24.25 GHz, default duplex sp. 70 MHz			
		duplex spacing range 60 – 190 MHz			
(Freq.table: rcinfo24_FCC200:5)					
basic channels (default duplex)				optional channels	
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz] Upper [MHz]
		U13	24115	no more channels	
		U14	24120		
L1	24055	U15	24125		
L2	24060	U16	24130		
L3	24065	U17	24135		
L4	24070	U18	24140		
L5	24075	U19	24145		
L6	24080	U20	24150		
L7	24085	U21	24155		
L8	24090	U22	24160		
L9	24095	U23	24165		
L10	24100	U24	24170		
L11	24105	U25	24175		
L12	24110	U26	24180		
L13	24115	U27	24185		
L14	24120	U28	24190		
L15	24125	U29	24195		
L16	24130	U30	24200		
L17	24135	U31	24205		
L18	24140	U32	24210		
L19	24145	U33	24215		
L20	24150	U34	24220		
L21	24155	U35	24225		
L22	24160	U36	24230		
L23	24165	U37	24235		
L24	24170	U38	24240		
L25	24175	U39	24245		
L26	24180				
L27	24185				

Ver. 2.0

RAy2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 75 MHz					
Bandwidth: 10 MHz		duplex spacing range 65 – 180 MHz					
(Freq.table: rcinfo24_FCC200:5)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U15	24125			U16	24130
L2	24060	U17	24135				
L4	24070	U19	24145	L3	24065	U18	24140
L6	24080	U21	24155	L5	24075	U20	24150
L8	24090	U23	24165	L7	24085	U22	24160
L10	24100	U25	24175	L9	24095	U24	24170
L12	24110	U27	24185	L11	24105	U26	24180
L14	24120	U29	24195	L13	24115	U28	24190
L16	24130	U31	24205	L15	24125	U30	24200
L18	24140	U33	24215	L17	24135	U32	24210
L20	24150	U35	24225	L19	24145	U34	24220
L22	24160	U37	24235	L21	24155	U36	24230
L24	24170			L23	24165	U38	24240
				L25	24175		

Ver. 2.0

RAy2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 75 MHz					
Bandwidth: 30 MHz		duplex spacing range 70 – 150 MHz					
(Freq.table: rcinfo24_FCC200:5)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L6	24080	U21	24155	L5	24075	U20	24150
				L7	24085	U22	24160
				L8	24090	U23	24165
				L9	24095	U24	24170
				L10	24100	U25	24175
L12	24110	U27	24185	L11	24105	U26	24180
				L13	24115	U28	24190
				L14	24120	U29	24195
				L15	24125	U30	24200
				L16	24130	U31	24205
L18	24140	U33	24215	L17	24135	U32	24210
				L19	24145	U34	24220
				L20	24150	U35	24225
				L21	24155		

Ver. 2.0

RAy2-24	TX channel nominal frequencies							
	Band 24.05 – 24.25 GHz, default duplex sp. 75 MHz							
	Bandwidth: 40 MHz				duplex spacing range 70 – 130 MHz			
	(Freq.table: rcinfo24_FCC200:5)							
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L8	24090	U23	24165			U21	24155	
				L7	24085	U22	24160	
				L9	24095	U24	24170	
				L10	24100	U25	24175	
L16	24130	U31	24205	L11	24105	U26	24180	
				L12	24110	U27	24185	
				L13	24115	U28	24190	
				L14	24120	U29	24195	
				L15	24125	U30	24200	
				L17	24135	U32	24210	
				L18	24140	U33	24215	
				L19	24145			

Ver. 2.0

RAy2-24	TX channel nominal frequencies							
	Band 24.05 – 24.25 GHz, default duplex sp. 90 MHz							
	Bandwidth: 50 MHz				duplex spacing range 70 – 130 MHz			
	(Freq.table: rcinfo24_FCC200:5)							
	basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L11	24105	U29	24195			U27	24185	
				L10	24100	U28	24190	
				L12	24110	U30	24200	
				L13	24115			

Ver. 2.0

RAY2-24		TX channel nominal frequencies					
		Band 24.05 – 24.25 GHz, default duplex sp. 90 MHz					
Bandwidth: 56 MHz TO		duplex spacing range 85 – 90 MHz					
(Freq.table: rcinfo24_FCC200:5)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L11	24105	U29	24195			U28	24190
				L12	24110		

Ver. 2.0

2.12. RAY2-24, pásmo 24.00-24.15 GHz

RAY2-24		TX channel nominal frequencies					
Bandwidth: 3.5 MHz		Band 24.00 – 24.15 GHz, default duplex sp. 73.5 MHz					
		duplex spacing range 63 – 238 MHz					
(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U19	24069.0	no more channels			
		U20	24072.5				
		U21	24076.0				
L1	24006.0	U22	24079.5				
L2	24009.5	U23	24083.0				
L3	24013.0	U24	24086.5				
L4	24016.5	U25	24090.0				
L5	24020.0	U26	24093.5				
L6	24023.5	U27	24097.0				
L7	24027.0	U28	24100.5				
L8	24030.5	U29	24104.0				
L9	24034.0	U30	24107.5				
L10	24037.5	U31	24111.0				
L11	24041.0	U32	24114.5				
L12	24044.5	U33	24118.0				
L13	24048.0	U34	24121.5				
L14	24051.5	U35	24125.0				
L15	24055.0	U36	24128.5				
L16	24058.5	U37	24132.0				
L17	24062.0	U38	24135.5				
L18	24065.5	U39	24139.0				
L19	24069.0	U40	24142.5				
L20	24072.5	U41	24146.0				
L21	24076.0						
L22	24079.5						
L23	24083.0						

ver. 1.0

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.15 GHz, default duplex sp. 73.5 MHz					
Bandwidth: 7 MHz		duplex spacing range 63 – 136.5 MHz					
(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
		U20	24072.5			U19	24069.0
						U21	24076.0
L1	24006.0	U22	24079.5				
L3	24013.0	U24	24086.5	L2	24009.5	U23	24083.0
L5	24020.0	U26	24093.5	L4	24016.5	U25	24090.0
L7	24027.0	U28	24100.5	L6	24023.5	U27	24097.0
L9	24034.0	U30	24107.5	L8	24030.5	U29	24104.0
L11	24041.0	U32	24114.5	L10	24037.5	U31	24111.0
L13	24048.0	U34	24121.5	L12	24044.5	U33	24118.0
L15	24055.0	U36	24128.5	L14	24051.5	U35	24125.0
L17	24062.0	U38	24135.5	L16	24058.5	U37	24132.0
L19	24069.0	U40	24142.5	L18	24065.5	U39	24139.0
L21	24076.0			L20	24072.5		
				L22	24079.5		

ver. 1.0

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.15 GHz, default duplex sp. 87.5 MHz					
Bandwidth: 14 MHz		duplex spacing range 66.5 – 129.5 MHz					
(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
						U21	24076.0
						U22	24079.5
		U23	24083.0				
						U24	24086.5
						U25	24090.0
						U26	24093.5
L2	24009.5	U27	24097.0				
				L3	24013.0	U28	24100.5
				L4	24016.5	U29	24104.0
				L5	24020.0	U30	24107.5
L6	24023.5	U31	24111.0				
				L7	24027.0	U32	24114.5
				L8	24030.5	U33	24118.0
				L9	24034.0	U34	24121.5
L10	24037.5	U35	24125.0				
				L11	24041.0	U36	24128.5
				L12	24044.5	U37	24132.0
				L13	24048.0	U38	24135.5
L14	24051.5	U39	24139.0				
				L15	24055.0		
				L16	24058.5		
				L17	24062.0		
L18	24065.5						
				L19	24069.0		
				L20	24072.5		

ver. 1.0

RAy2-24	TX channel nominal frequencies							
	Band 24.00 – 24.15 GHz, default duplex sp. 84 MHz							
	Bandwidth: 28 MHz				duplex spacing range 70 – 115.5 MHz			
	(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L4	24016.5	U28	24100.5			U24	24086.5	
						U25	24090.0	
						U26	24093.5	
						U27	24097.0	
L12	24044.5	U36	24128.5	L5	24020.0	U29	24104.0	
				L6	24023.5	U30	24107.5	
				L7	24027.0	U31	24111.0	
				L8	24030.5	U32	24114.5	
				L9	24034.0	U33	24118.0	
				L10	24037.5	U34	24121.5	
				L11	24041.0	U35	24125.0	
				L13	24048.0	U37	24132.0	
				L14	24051.5			
				L15	24055.0			
				L16	24058.5			
				L17	24062.0			

ver. 1.0

RAy2-24		TX channel nominal frequencies					
		Band 24.00 – 24.15 GHz, default duplex sp. 70 MHz					
Bandwidth: 40 MHz		duplex spacing range 70 – 105 MHz					
(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]
L7	24027.0	U27	24097.0	L6	24023.5	U26	24093.5
				L8	24030.5	U28	24100.5
				L9	24034.0	U29	24104.0
				L10	24037.5	U30	24107.5
				L11	24041.0	U31	24111.0
				L12	24044.5	U32	24114.5
				L13	24048.0	U33	24118.0
				L14	24051.5	U34	24121.5
				L15	24055.0	U35	24125.0
				L16	24058.5	U36	24128.5

ver. 1.0

RAY2-24	TX channel nominal frequencies							
	Band 24.00 – 24.15 GHz, default duplex sp. 87.5 MHz							
	Bandwidth: 50 MHz				duplex spacing range 84 – 94.5 MHz			
	(Freq.table: rcinfo24_ISM150:3)							
basic channels (default duplex)				optional channels				
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L8	24030.5	U33	24118.0			U31	24111.0	
				L7	24027.0	U32	24114.5	
				L9	24034.0	U34	24121.5	
				L10	24037.5			

ver. 1.0

RAy2-24	TX channel nominal frequencies							
	Band 24.00 – 24.15 GHz, default duplex sp. 84 MHz							
	Bandwidth: 56 MHz				duplex spacing range 84 – 87.5 MHz			
	(Freq.table: rcinfo24_ISM150:3)							
	basic channels (default duplex)				optional channels			
Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	Ch.No.	Lower [MHz]	Ch.No.	Upper [MHz]	
L9	24034.0	U33	24118.0	L8	24030.5	U32	24114.5	

ver. 1.0

Technické parametry v tomto Uživatelském manuálu mohou být změněny bez předchozího upozornění.

Příloha A. Přehled revizí

Revize 1.0
První vydání

Revize 1.1 2016-09-22
Doplněno RAY2-11 FCC a RAY2-18 FCC