

Description of EPFD validation and results of examination

Input parameters

Mask link data

<i>Mask Id.</i>	<i>Direction</i>	<i>Minimum frequency, MHz</i>	<i>Maximum frequency, MHz</i>	<i>Linked orbit IDs / Satellite IDs</i>
1	↔	10700	12750	All
2	↑	12750	14500	All
3	↓	10700	12700	50 - 67 (sat IDs: 1, 9, 17, 25, 33)
4	↓	10700	12700	50 - 67 (sat IDs: 2, 10, 18, 26, 34)
5	↓	10700	12700	50 - 67 (sat IDs: 3, 11, 19, 27, 35)
6	↓	10700	12700	50 - 67 (sat IDs: 4, 12, 20, 28, 36)
7	↓	10700	12700	50 - 67 (sat IDs: 5, 13, 21, 29, 37)
8	↓	10700	12700	50 - 67 (sat IDs: 6, 14, 22, 30, 38)
9	↓	10700	12700	50 - 67 (sat IDs: 7, 15, 23, 31, 39)
10	↓	10700	12700	50 - 67 (sat IDs: 8, 16, 24, 32, 40)
11	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 1, 9, 17) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 5, 13)
12	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 2, 10, 18) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 6, 14)
13	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 3, 11, 19) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 7, 15)
14	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 4, 12, 20) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 8, 16)
15	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 5, 13) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 1, 9, 17)

16	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 6, 14) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 2, 10, 18)
17	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 7, 15) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 3, 11, 19)
18	↓	10700	12750	1, 3, 5, 7, 9, 11, 13, 15, 17 (sat IDs: 8, 16) 2, 4, 6, 8, 10, 12, 14, 16, 18 (sat IDs: 4, 12, 20)
19	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 1, 9, 17, 25, 33, 41, 49) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 5, 13, 21, 29, 37, 45)
20	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 2, 10, 18, 26, 34, 42, 50) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 6, 14, 22, 30, 38, 46)
21	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 3, 11, 19, 27, 35, 43, 51) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 7, 15, 23, 31, 39, 47)
22	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 4, 12, 20, 28, 36, 44, 52) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 8, 16, 24, 32, 40, 48)
23	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 5, 13, 21, 29, 37, 45) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 1, 9, 17, 25, 33, 41, 49)

24	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 6, 14, 22, 30, 38, 46) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 2, 10, 18, 26, 34, 42, 50)
25	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 7, 15, 23, 31, 39, 47) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 3, 11, 19, 27, 35, 43, 51)
26	↓	10700	12750	19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49 (sat IDs: 8, 16, 24, 32, 40, 48) 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 (sat IDs: 4, 12, 20, 28, 36, 44, 52)

Common SNS Data

Common

A.4.b.7.d.1 Exclusion zone type	A.4.b.7.d.1 Exclusion zone size, degrees
Y - topocentric angle (earth based)	8.4

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
950/950/88.2 800/800/88.2 900/900/88.9 1200/1200/87.9	No keeping	Default

Uplink

A.4.b.7.b Earth station density (1/km ²)	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
3.08E-06	570	2

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	40

Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
RAR4, RBR4, RCR4	R	13000	13250	empty
RAR2, RAR3, RBR2, RBR3, RCR2, RCR3	R	12750	14500	empty
RAR, RBR, RCR	R	13750	14500	empty
TBR2, TBR3, TCR2, TCR3	E	10950	12700	empty
TAR, TBR, TCR	E	10950	11700	empty
TAR2, TAR3	E	10700	12700	empty

Results

<i>B1A</i> <i>Beam designation</i>	<i>B2</i> <i>Emi-Rcp</i>	<i>BR7a</i> <i>Group id./ Target Group id.</i>	<i>GHz</i>	<i>Orbital planes id. no.</i>	<i>Mask ID</i>	<i>Article 22 Limit</i>	<i>Result</i>	<i>Article 22 Examination</i>
RAR	R	119786061 119786062 119786063 119786064 119786065	14-14.5	1 - 18	2	TABLE 22-2	N/A	N/A
RAR	R	119786148	13.75-14	1 - 18	2	TABLE 22-2	N/A	N/A
RAR2	R	119786066 119786067 119786068 119786069 119786070	12.75-13	19 - 49	2	TABLE 22-2	Pass	Favorable
RAR2	R	119786071 119786072 119786073 119786074 119786075	14-14.5	19 - 49	2	TABLE 22-2	Pass	Favorable
RAR2	R	119786149	13.75-14	19 - 49	2	TABLE 22-2	Pass	Favorable
RAR3	R	119786076 119786077 119786078 119786079 119786080	14-14.5	50 - 67	2	TABLE 22-2	Pass	Favorable
RAR3	R	119786133 119786134 119786135 119786136	12.75-13	50 - 67	2	TABLE 22-2	Pass	Favorable
RAR3	R	119786137	12.75-14	50 - 67	2	TABLE 22-2	Pass	Favorable
RAR4	R	119786081 119786082 119786083 119786084	13-13.25	50 - 67	2	TABLE 22-2	Pass	Favorable
RBR	R	119786085 119786086 119786087 119786088 119786089	14-14.5	1 - 18	2	TABLE 22-2	N/A	N/A
RBR	R	119786150	13.75-14	1 - 18	2	TABLE 22-2	N/A	N/A
RBR2	R	119786090 119786091 119786092 119786093 119786094	12.75-13	19 - 49	2	TABLE 22-2	Pass	Favorable
RBR2	R	119786095 119786096 119786097 119786098 119786099	14-14.5	19 - 49	2	TABLE 22-2	Pass	Favorable
RBR2	R	119786151	13.75-14	19 - 49	2	TABLE 22-2	Pass	Favorable
RBR3	R	119786100 119786101 119786102 119786103 119786104	14-14.5	50 - 67	2	TABLE 22-2	Pass	Favorable
RBR3	R	119786138 119786139 119786140 119786141	12.75-13	50 - 67	2	TABLE 22-2	Pass	Favorable
RBR3	R	119786142	12.75-14	50 - 67	2	TABLE 22-2	Pass	Favorable
RBR4	R	119786105 119786106 119786107 119786108	13-13.25	50 - 67	2	TABLE 22-2	Pass	Favorable
RCR	R	119786109 119786110 119786111 119786112 119786113	14-14.5	1 - 18	2	TABLE 22-2	N/A	N/A
RCR	R	119786152	13.75-14	1 - 18	2	TABLE 22-2	N/A	N/A

RCR2	R	119786114 119786115 119786116 119786117 119786118	12.75-13	19 - 49	2	TABLE 22-2	Pass	Favorable
RCR2	R	119786119 119786120 119786121 119786122 119786123	14-14.5	19 - 49	2	TABLE 22-2	Pass	Favorable
RCR2	R	119786153	13.75-14	19 - 49	2	TABLE 22-2	Pass	Favorable
RCR3	R	119786124 119786125 119786126 119786127 119786128	14-14.5	50 - 67	2	TABLE 22-2	Pass	Favorable
RCR3	R	119786143 119786144 119786145 119786146	12.75-13	50 - 67	2	TABLE 22-2	Pass	Favorable
RCR3	R	119786147	12.75-14	50 - 67	2	TABLE 22-2	Pass	Favorable
RCR4	R	119786129 119786130 119786131 119786132	13-13.25	50 - 67	2	TABLE 22-2	Pass	Favorable
TAR	E	119785790 119785791 119785792 119785793 119785794	10.95-11.2	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A
TAR	E	119785795 119785796 119785797 119785798 119785799	11.45-11.7	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A
TAR2	E	119785800 119785801 119785802 119785803 119785819	10.95-11.2	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TAR2	E	119785804 119785805 119785806 119785807 119785808	12.5-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TAR2	E	119785809 119785810 119785811 119785812 119785813 119785834 119785835 119785836 119785837 119785839	12.2-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TAR2	E	119785814 119785815 119785816 119785817 119785818 119785826 119785827 119785828 119785829 119785830 119785831 119785832 119785833 119785838 119785840	11.7-12.2	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TAR2	E	119785820 119785821 119785822	11.45-11.7	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

		119785823 119785824							
TAR2	E	119785825	10.7-11.45	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable	
TAR2	E	119785841 119785842 119785843 119785844 119785845	12.2-12.5	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable	
TAR3	E	119785846	10.7-11.7	50 - 67	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable	
TAR3	E	119785847 119785848 119785849 119785850	10.95-11.7	50 - 67	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable	
TAR3	E	119785851 119785852 119785853 119785854 119785855	11.7-12.5	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable	
TAR3	E	119785856 119785857 119785858 119785859 119785860	12.5-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable	
TAR3	E	119785861 119785862 119785863 119785864 119785865 119785871 119785872 119785873 119785874 119785875	11.7-12.2	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable	
TAR3	E	119785866 119785867 119785868 119785869 119785870 119785876 119785877 119785878 119785879 119785880	12.2-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable	
TBR	E	119785881 119785882 119785883 119785884 119785885	10.95-11.2	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A	
TBR	E	119785886 119785887 119785888 119785889 119785890	11.45-11.7	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A	
TBR2	E	119785891 119785892 119785893 119785894 119785895	10.95-11.2	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable	
TBR2	E	119785896 119785897 119785898 119785899 119785900	12.5-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable	
TBR2	E	119785901 119785902 119785903 119785904 119785905 119785924	12.2-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable	

		119785925 119785926 119785927 119785929						
TBR2	E	119785906 119785907 119785908 119785909 119785910 119785916 119785917 119785918 119785919 119785920 119785921 119785922 119785923 119785928 119785930	11.7-12.2	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TBR2	E	119785911 119785912 119785913 119785914 119785915	11.45-11.7	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TBR2	E	119785931 119785932 119785933 119785934 119785935	12.2-12.5	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TBR3	E	119785936 119785937 119785938 119785939 119785940	10.95-11.7	50 - 67	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TBR3	E	119785941 119785942 119785943 119785944 119785945	11.7-12.5	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TBR3	E	119785946 119785947 119785948 119785949 119785950	12.5-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TBR3	E	119785951 119785952 119785953 119785954 119785955 119785961 119785962 119785963 119785964 119785965	11.7-12.2	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TBR3	E	119785956 119785957 119785958 119785959 119785960 119785966 119785967 119785968 119785969 119785970	12.2-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TCR	E	119785971 119785972 119785973 119785974 119785975	10.95-11.2	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A
TCR	E	119785976 119785977 119785978	11.45-11.7	1 - 18	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	N/A N/A N/A	N/A

		119785979 119785980						
TCR2	E	119785981 119785982 119785983 119785984 119785985	10.95-11.2	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TCR2	E	119785986 119785987 119785988 119785989 119785990	12.5-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TCR2	E	119785991 119785992 119785993 119785994 119785995 119786014 119786015 119786016 119786017 119786019	12.2-12.7	19 - 49	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TCR2	E	119785996 119785997 119785998 119785999 119786000 119786006 119786007 119786008 119786009 119786010 119786011 119786012 119786013 119786018 119786020	11.7-12.2	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TCR2	E	119786001 119786002 119786003 119786004 119786005	11.45-11.7	19 - 49	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TCR2	E	119786021 119786022 119786023 119786024 119786025	12.2-12.5	19 - 49	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TCR3	E	119786026 119786027 119786028 119786029 119786030	10.95-11.7	50 - 67	1, 3 - 26	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TCR3	E	119786031 119786032 119786033 119786034 119786035	11.7-12.5	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
TCR3	E	119786036 119786037 119786038 119786039 119786040	12.5-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
TCR3	E	119786041 119786042 119786043 119786044 119786045 119786051 119786052 119786053 119786054 119786055	11.7-12.2	50 - 67	3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable

TCR3	E	119786046 119786047 119786048 119786049 119786050 119786056 119786057 119786058 119786059 119786060	12.2-12.7	50 - 67	1, 3 - 26	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
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Notes:

1. Findings are promulgated as favorable when all applicable limits in Article 22 are met for given group of frequency assignments in all applicable scenarios.
2. The Result column can be either Pass or Fail (see Rec. ITU-R S.1503-2). N/A (Non Applicable) refers to the case when an applicable Article 22 limit is not examined in the current scenario.
3. Qualified Favorable is established due to continuous application of Resolution 85 (WRC-03) on request by the notifying administration.