

## Description of EPFD validation and results of examination

### Input parameters

#### Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbits id
1-5	↑	14000	14500	All
6,7	↓	10700	12750	All
8	↔	10700	12750	All
19-21	↑	27500	30000	All
22-25	↔	17800	19300	All
26	↓	19700	20200	All
27	↓	17800	19300	All

#### 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)	50

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
40002.3/31569.5/63.4	Keeping	Default

##### Uplink

A.4.b.7.b Earth station density (1/km <sup>2</sup> )	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
2	999.9	4

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	-65	0
-65	-25	1
-25	25	0
25	65	1
65	90	0

### Results

B1A Beam designation	B2 Emi-Rcp	BR7a Group id./ Target Group id.	GHz	Orbital planes id. no.	Mask ID	Article 22 Limit	Result	Article 22 Examination
GT1	R	318711382 / 117821862 318711383 / 117821863 318711384 / 117821864 318711385 / 117821865 318711386 / 117821866 318711387 / 117821867	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
GT2	R	318711388 / 117821868 318711389 / 117821869 318711390 / 117821870 318711391 / 117821871 318711392 / 117821872 318711393 / 117821873	27.5-28.5	1 - 3	19	TABLE 22-2	Fail	Unfavorable
GT2	R	318711395 / 117822019 318711397 / 117822021 318711399 / 117822023 318711401 / 117822025 318711403 / 117822027 318711405 / 117822029	29.5-30	1 - 3	19	TABLE 22-2	Fail	Unfavorable

GT3	R	318711406 / 117821874 318711407 / 117821875 318711408 / 117821876 318711409 / 117821877 318711410 / 117821878 318711411 / 117821879	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
GT4	R	318711412 / 117821880 318711413 / 117821881 318711414 / 117821882 318711415 / 117821883 318711416 / 117821884 318711417 / 117821885	27.5-28.5	1 - 3	19	TABLE 22-2	Fail	Unfavorable
GT4	R	318711419 / 117822031 318711421 / 117822033 318711423 / 117822035 318711425 / 117822037 318711427 / 117822039 318711429 / 117822041	29.5-30	1 - 3	19	TABLE 22-2	Fail	Unfavorable
TTC1	R	318711430 / 117821886 318711431 / 117821887 318711432 / 117821888 318711433 / 117821889 318711434 / 117821890 318711435 / 117821891	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
TTC2	R	318711436 / 117821892 318711437 / 117821893 318711438 / 117821894 318711439 / 117821895 318711440 / 117821896 318711441 / 117821897	29.5-30	1 - 3	19	TABLE 22-2	Fail	Unfavorable
UU1	R	318711442 / 117821898 318711443 / 117821899 318711444 / 117821900 318711445 / 117821901	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
UU2	R	318711446 / 117821902 318711447 / 117821903 318711448 / 117821904 318711449 / 117821905	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
UU3	R	318711450 / 117821906 318711451 / 117821907 318711452 / 117821908 318711453 / 117821909 318711454 / 117821920 318711455 / 117821921	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
UU4	R	318711456 / 117821910 318711457 / 117821911 318711458 / 117821912 318711459 / 117821913	14-14.5	1 - 3	1	TABLE 22-2	Fail	Unfavorable
GT7	E	318711214 / 117821790 318711215 / 117821791 318711216 / 117821792 318711217 / 117821793 318711218 / 117821794 318711219 / 117821795	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
GT8	E	318711220 / 117821796 318711221 / 117821797 318711222 / 117821798 318711223 / 117821799 318711224 / 117821800 318711225 / 117821801	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
TTC3	E	318711226 / 117821802 318711227 / 117821803 318711228 / 117821804 318711229 / 117821805 318711230 / 117821806 318711231 / 117821807	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
TTC4	E	318711232 / 117821808 318711233 / 117821809 318711234 / 117821810 318711235 / 117821811 318711236 / 117821812 318711237 / 117821813	11.7-12.2	1 - 3	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable

UD1	E	318711238 / 117821814 318711239 / 117821815 318711240 / 117821816 318711241 / 117821817	10.7-11.45	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD1	E	318711242 / 117821922 318711246 / 117821926 318711250 / 117821930 318711254 / 117821934	10.95-11.2	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD1	E	318711243 / 117821923 318711247 / 117821927 318711251 / 117821931 318711255 / 117821935	11.45-11.7	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD1	E	318711244 / 117821924 318711248 / 117821928 318711252 / 117821932 318711256 / 117821936	11.7-12.2	1 - 3	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
UD1	E	318711245 / 117821925 318711249 / 117821929 318711253 / 117821933 318711257 / 117821937	12.2-12.7	1 - 3	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Fail	Unfavorable
UD10	E	318711258 / 117821818 318711259 / 117821819 318711260 / 117821820 318711261 / 117821821 318711262 / 117821914 318711263 / 117821915	10.7-11.45	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD10	E	318711264 / 117821938 318711268 / 117821942 318711272 / 117821946 318711276 / 117821950 318711280 / 117822042 318711284 / 117822046	10.95-11.2	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD10	E	318711265 / 117821939 318711269 / 117821943 318711273 / 117821947 318711277 / 117821951 318711281 / 117822043 318711285 / 117822047	11.45-11.7	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD10	E	318711266 / 117821940 318711270 / 117821944 318711274 / 117821948 318711278 / 117821952 318711282 / 117822044 318711286 / 117822048	11.7-12.2	1 - 3	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
UD10	E	318711267 / 117821941 318711271 / 117821945 318711275 / 117821949 318711279 / 117821953 318711283 / 117822045 318711287 / 117822049	12.2-12.7	1 - 3	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Fail	Unfavorable
UD11	E	318711288 / 117821822 318711289 / 117821823 318711290 / 117821824 318711291 / 117821825 318711292 / 117821916 318711293 / 117821917	17.8-18.3	1 - 3	22, 27	TABLE 22-1B TABLE 22-3	Pass Fail	Unfavorable
UD11	E	318711294 / 117821954 318711295 / 117821956 318711296 / 117821958 318711297 / 117821960 318711298 / 117822050 318711299 / 117822052	18.55-18.8	1 - 3	27	TABLE 22-1B	Pass	Favorable
UD12	E	318711300 / 117821826 318711301 / 117821827 318711302 / 117821828 318711303 / 117821829 318711304 / 117821918 318711305 / 117821919	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
UD2	E	318711306 / 117821830 318711307 / 117821831 318711308 / 117821832 318711309 / 117821833	17.8-18.3	1 - 3	22, 27	TABLE 22-1B TABLE 22-3	Pass Fail	Unfavorable

UD2	E	318711310 / 117821962 318711311 / 117821964 318711312 / 117821966 318711313 / 117821968	18.55-18.8	1 - 3	27	TABLE 22-1B	Pass	Favorable
UD3	E	318711314 / 117821834 318711315 / 117821835 318711316 / 117821836 318711317 / 117821837	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
UD4	E	318711318 / 117821838 318711319 / 117821839 318711320 / 117821840 318711321 / 117821841	10.7-11.45	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD4	E	318711322 / 117821970 318711326 / 117821974 318711330 / 117821978 318711334 / 117821982	10.95-11.2	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD4	E	318711323 / 117821971 318711327 / 117821975 318711331 / 117821979 318711335 / 117821983	11.45-11.7	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD4	E	318711324 / 117821972 318711328 / 117821976 318711332 / 117821980 318711336 / 117821984	11.7-12.2	1 - 3	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
UD4	E	318711325 / 117821973 318711329 / 117821977 318711333 / 117821981 318711337 / 117821985	12.2-12.7	1 - 3	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Fail	Unfavorable
UD5	E	318711338 / 117821842 318711339 / 117821843 318711340 / 117821844 318711341 / 117821845	17.8-18.3	1 - 3	22, 27	TABLE 22-1B TABLE 22-3	Pass Fail	Unfavorable
UD5	E	318711342 / 117821986 318711343 / 117821988 318711344 / 117821990 318711345 / 117821992	18.55-18.8	1 - 3	27	TABLE 22-1B	Pass	Favorable
UD6	E	318711346 / 117821846 318711347 / 117821847 318711348 / 117821848 318711349 / 117821849	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable
UD7	E	318711350 / 117821850 318711351 / 117821851 318711352 / 117821852 318711353 / 117821853	10.7-11.45	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD7	E	318711354 / 117821994 318711358 / 117821998 318711362 / 117822002 318711366 / 117822006	10.95-11.2	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD7	E	318711355 / 117821995 318711359 / 117821999 318711363 / 117822003 318711367 / 117822007	11.45-11.7	1 - 3	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Fail	Unfavorable
UD7	E	318711356 / 117821996 318711360 / 117822000 318711364 / 117822004 318711368 / 117822008	11.7-12.2	1 - 3	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
UD7	E	318711357 / 117821997 318711361 / 117822001 318711365 / 117822005 318711369 / 117822009	12.2-12.7	1 - 3	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Fail	Unfavorable
UD8	E	318711370 / 117821854 318711371 / 117821855 318711372 / 117821856 318711373 / 117821857	17.8-18.3	1 - 3	22, 27	TABLE 22-1B TABLE 22-3	Pass Fail	Unfavorable
UD8	E	318711374 / 117822010 318711375 / 117822012 318711376 / 117822014 318711377 / 117822016	18.55-18.8	1 - 3	27	TABLE 22-1B	Pass	Favorable
UD9	E	318711378 / 117821858 318711379 / 117821859	19.7-20.2	1 - 3	26	TABLE 22-1C	Pass	Favorable

		318711380 / 117821860 318711381 / 117821861						
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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.