

Description of EPFD validation and results of examination

This examination concerns only frequency band 17.8-18.6 GHz.

Correction of examination results under No. 22.5C and No. 9.7B published in Special Section CR/C/5026 MOD-1 (IFIC 2962/11.01.2022). Previous examination was using incorrectly attributed PFD-mask in the band 17.8-18.6 GHz.

Input parameters

Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↓	17800	18600	All
3	↔	17800	18400	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)	18

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
590/590/33	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
0.0001	100	1

Downlink

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

Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
TUA1, TUA2, TUA3, TUA4	E	17800	18600	empty
TGA1, TGA2, TGP1, TGP2	E	17800	20200	empty

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
TGA1	E	319861969 / 119677222 319861970 / 119677223 319861971 / 119677224 319861972 / 119677225 319861973 / 119677226	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA1	E	319861974 / 119677270 319861975 / 119677271 319861976 / 119677272 319861977 / 119677273 319861978 / 119677274	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA2	E	319861984 / 119677227 319861985 / 119677228 319861986 / 119677229 319861987 / 119677230 319861988 / 119677231	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

TGA2	E	319861989 / 119677275 319861990 / 119677276 319861991 / 119677277 319861992 / 119677278 319861993 / 119677279	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP1	E	319861999 / 119677232 319862000 / 119677233 319862001 / 119677234 319862002 / 119677235 319862003 / 119677236	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP1	E	319862004 / 119677280 319862005 / 119677281 319862006 / 119677282 319862007 / 119677283 319862008 / 119677284	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862014 / 119677237 319862015 / 119677238 319862016 / 119677239 319862017 / 119677240 319862018 / 119677241	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862019 / 119677285 319862020 / 119677286 319862021 / 119677287 319862022 / 119677288 319862023 / 119677289	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862029 / 119677242 319862030 / 119677243 319862031 / 119677244 319862032 / 119677245 319862033 / 119677246 319862034 / 119677247 319862035 / 119677248	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862036 / 119677290 319862037 / 119677291 319862038 / 119677292 319862039 / 119677293 319862040 / 119677294 319862041 / 119677295 319862042 / 119677296	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862043 / 119677249 319862044 / 119677250 319862045 / 119677251 319862046 / 119677252 319862047 / 119677253 319862048 / 119677254 319862049 / 119677255	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862050 / 119677297 319862051 / 119677298 319862052 / 119677299 319862053 / 119677300 319862054 / 119677301 319862055 / 119677302 319862056 / 119677303	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862057 / 119677256 319862058 / 119677257 319862059 / 119677258 319862060 / 119677259 319862061 / 119677260 319862062 / 119677261 319862063 / 119677262	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862064 / 119677304 319862065 / 119677305 319862066 / 119677306 319862067 / 119677307 319862068 / 119677308 319862069 / 119677309 319862070 / 119677310	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA4	E	319862071 / 119677263 319862072 / 119677264 319862073 / 119677265 319862074 / 119677266 319862075 / 119677267	17.8-18.3	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		319862076 / 119677268 319862077 / 119677269						
TUA4	E	319862078 / 119677311 319862079 / 119677312 319862080 / 119677313 319862081 / 119677314 319862082 / 119677315 319862083 / 119677316 319862084 / 119677317	18.3-18.6	1 - 28	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

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.