

## Description of EPFD validation and results of examination

### Input parameters

#### Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↑	12500	14500	All
2	↔	10700	12750	All
3	↓	10700	12750	All
4	↔	17800	18600	All
5	↓	17800	18600	All
6	↓	19700	20200	All
7	↑	17300	18100	All
8	↑	27500	28600	All
9	↑	29500	30000	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)	0

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
650/650/89.5	No 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
2.8E-05	190	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
KU4	R	12500	12750	10
KU1, KU2, KU3	R	12750	14500	10
KA3	R	17300	18100	10
KA1, KA2	R	27500	30000	10
KUA, KUB, KUC	E	10700	12750	10
KAA, KAB	E	17900	20200	10

### 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
KA1	R	320763259 / 120689682 320763262 / 120689685	27.5-28.5	1 - 12	8	TABLE 22-2	Pass	Favorable
KA1	R	320763260 / 120689683 320763263 / 120689686	28.5-29	1 - 12	8	TABLE 22-2	Pass	Favorable
KA1	R	320763261 / 120689684 320763264 / 120689687	29.5-30	1 - 12	9	TABLE 22-2	Pass	Favorable
KA2	R	320763265 / 120689688 320763268 / 120689691	27.5-28.5	1 - 12	8	TABLE 22-2	Pass	Favorable
KA2	R	320763266 / 120689689 320763269 / 120689692	28.5-29	1 - 12	8	TABLE 22-2	Pass	Favorable
KA2	R	320763267 / 120689690 320763270 / 120689693	29.5-30	1 - 12	9	TABLE 22-2	Pass	Favorable

KA3	R	320763271 / 120689694 320763272 / 120689696	17.3-17.7	1 - 12	7	TABLE 22-2	Pass	Favorable
KA3	R	320763273 / 120689727 320763274 / 120689728	17.7-18.1	1 - 12	7	TABLE 22-2	Pass	Favorable
KU1	R	320763275 / 120689710	12.75- 13.25	1 - 12	1	TABLE 22-2	Pass	Favorable
KU1	R	320763276 / 120689711	14-14.5	1 - 12	1	TABLE 22-2	Pass	Favorable
KU2	R	320763277 / 120689713	12.75- 13.25	1 - 12	1	TABLE 22-2	Pass	Favorable
KU2	R	320763278 / 120689714	14-14.5	1 - 12	1	TABLE 22-2	Pass	Favorable
KU3	R	320763279 / 120689716	12.75- 13.25	1 - 12	1	TABLE 22-2	Pass	Favorable
KU3	R	320763280 / 120689717	14-14.5	1 - 12	1	TABLE 22-2	Pass	Favorable
KU4	R	320763281 / 120689719	12.5-12.75	1 - 12	1	TABLE 22-2	Pass	Favorable
KU4	R	320763282 / 120689720	12.7-12.75	1 - 12	1	TABLE 22-2	Pass	Favorable
KA3	E	320763240 / 120689673	19.7-20.2	1 - 12	6	TABLE 22-1C	Pass	Favorable
KA3	E	320763241 / 120689674	17.9-18.4	1 - 12	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAB	E	320763242 / 120689679	19.7-20.2	1 - 12	6	TABLE 22-1C	Pass	Favorable
KAB	E	320763243 / 120689680	17.9-18.4	1 - 12	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KUA	E	320763244 / 120689701	10.7-11.2	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUA	E	320763245 / 120689702	11.7-12.2	1 - 12	3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
KUA	E	320763246 / 120689703	12.25- 12.75	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
KUA	E	320763247 / 120689721	11.2-11.7	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUA	E	320763248 / 120689722	12.2-12.7	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
KUB	E	320763249 / 120689704	10.7-11.2	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUB	E	320763250 / 120689705	11.7-12.2	1 - 12	3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
KUB	E	320763251 / 120689706	12.25- 12.75	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
KUB	E	320763252 / 120689723	11.2-11.7	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUB	E	320763253 / 120689724	12.2-12.7	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
KUC	E	320763254 / 120689707	10.7-11.2	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUC	E	320763255 / 120689708	11.7-12.2	1 - 12	3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
KUC	E	320763256 / 120689709	12.25- 12.75	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass N/A Pass N/A	Favorable

						TABLE 22-3	N/A	
KUC	E	320763257 / 120689725	11.2-11.7	1 - 12	2, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUC	E	320763258 / 120689726	12.2-12.7	1 - 12	2, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	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.