

## 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	↓	10700	12750	All
2	↓	17800	18600	All
3	↓	19700	20200	All
5	↑	12750	13250	All
6	↑	13750	14500	All
7	↑	27500	28600	All
8	↑	29500	30000	All
11	↔	10700	11700	All
13	↔	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
N - satellite based angle	10

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
315/315/30	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
5E-06	500	1

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	5

##### Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
KUU3	R	13750	14000	10
KUU1, KUU2	R	12750	14500	10
KAU1, KAU2, KAU3	R	27500	30000	10
KUD1, KUD2	E	10700	12750	10
KAD1, KAD2, KAD3	E	17700	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
KAU1	R	321771243 / 121758209 321771244 / 121758210 321771245 / 121758211 321771246 / 121758212	27.5-28.5	1 - 24	7	TABLE 22-2	Pass	Favorable
KAU1	R	321771247 / 121758213 321771248 / 121758214	29.5-30	1 - 24	8	TABLE 22-2	Pass	Favorable
KAU1	R	321771249 / 121758411 321771250 / 121758412 321771251 / 121758413 321771252 / 121758414	28.5-29.1	1 - 24	7	TABLE 22-2	Pass	Favorable
KAU2	R	321771253 / 121758219 321771254 / 121758220	27.5-28.5	1 - 24	7	TABLE 22-2	Pass	Favorable

		321771255 / 121758221 321771256 / 121758222						
KAU2	R	321771257 / 121758223 321771258 / 121758224	29.5-30	1 - 24	8	TABLE 22-2	Pass	Favorable
KAU2	R	321771259 / 121758415 321771260 / 121758416 321771261 / 121758417 321771262 / 121758418	28.5-29.1	1 - 24	7	TABLE 22-2	Pass	Favorable
KAU3	R	321771263 / 121758247 321771264 / 121758248 321771265 / 121758249 321771266 / 121758250	27.5-28.5	1 - 24	7	TABLE 22-2	Pass	Favorable
KAU3	R	321771267 / 121758251 321771268 / 121758252	29.5-30	1 - 24	8	TABLE 22-2	Pass	Favorable
KAU3	R	321771269 / 121758427 321771270 / 121758428 321771271 / 121758429 321771272 / 121758430	28.5-29.1	1 - 24	7	TABLE 22-2	Pass	Favorable
KUU1	R	321771273 / 121758333 321771274 / 121758334 321771275 / 121758335 321771276 / 121758336 321771277 / 121758337 321771278 / 121758338 321771279 / 121758339	12.75-13.25	1 - 24	5	TABLE 22-2	Pass	Favorable
KUU1	R	321771280 / 121758455 321771281 / 121758456 321771282 / 121758457 321771283 / 121758458 321771284 / 121758459 321771285 / 121758460	14-14.5	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU1	R	321771286 / 121758461	13.75-14.5	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU2	R	321771287 / 121758340 321771288 / 121758341 321771289 / 121758342 321771290 / 121758343 321771291 / 121758344 321771292 / 121758345 321771293 / 121758346	12.75-13.25	1 - 24	5	TABLE 22-2	Pass	Favorable
KUU2	R	321771294 / 121758462 321771295 / 121758463 321771296 / 121758464 321771297 / 121758465 321771298 / 121758466 321771299 / 121758467	14-14.5	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU2	R	321771300 / 121758468	13.75-14.5	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU3	R	321771301 / 121758351	13.75- 13.772	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU3	R	321771302 / 121758352	13.773- 13.779	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU3	R	321771303 / 121758353	13.778-14	1 - 24	6	TABLE 22-2	Pass	Favorable
KUU3	R	321771304 / 121758354	13.75-14	1 - 24	6	TABLE 22-2	Pass	Favorable
KAD1	E	321771131 / 121758189 321771132 / 121758190 321771133 / 121758191 321771134 / 121758192	17.7-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD1	E	321771135 / 121758193 321771136 / 121758194	19.7-20.2	1 - 24	3	TABLE 22-1C	Pass	Favorable
KAD1	E	321771137 / 121758395 321771138 / 121758397 321771139 / 121758399 321771140 / 121758401	18.1-18.6	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD1	E	321771141 / 121763409 321771142 / 121763410 321771143 / 121763411 321771144 / 121763412	17.8-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321771145 / 121758199 321771146 / 121758200 321771147 / 121758201 321771148 / 121758202	17.7-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321771149 / 121758203 321771150 / 121758204	19.7-20.2	1 - 24	3	TABLE 22-1C	Pass	Favorable

KAD2	E	321771151 / 121758403 321771152 / 121758405 321771153 / 121758407 321771154 / 121758409	18.1-18.6	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321771155 / 121763413 321771156 / 121763414 321771157 / 121763415 321771158 / 121763416	17.8-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321771159 / 121758237 321771160 / 121758238 321771161 / 121758239 321771162 / 121758240	17.7-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321771163 / 121758241 321771164 / 121758242	19.7-20.2	1 - 24	3	TABLE 22-1C	Pass	Favorable
KAD3	E	321771165 / 121758419 321771166 / 121758421 321771167 / 121758423 321771168 / 121758425	18.1-18.6	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321771169 / 121763417 321771170 / 121763418 321771171 / 121763419 321771172 / 121763420	17.8-18.2	1 - 24	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KUD1	E	321771173 / 121758277 321771174 / 121758278 321771175 / 121758279 321771176 / 121758280 321771177 / 121758281 321771178 / 121758282 321771179 / 121758283	10.7-11.2	1 - 24	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD1	E	321771180 / 121758284 321771181 / 121758285 321771182 / 121758286 321771183 / 121758287 321771184 / 121758288 321771185 / 121758289 321771186 / 121758290	12.5-12.75	1 - 24	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD1	E	321771187 / 121758291 321771188 / 121758292 321771189 / 121758293 321771190 / 121758294 321771191 / 121758295 321771192 / 121758296 321771193 / 121758297	11.7-12.2	1 - 24	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUD1	E	321771194 / 121758298 321771195 / 121758299 321771196 / 121758300 321771197 / 121758301 321771198 / 121758302 321771199 / 121758303 321771200 / 121758304	12.2-12.75	1 - 24	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD1	E	321771201 / 121758441 321771202 / 121758442 321771203 / 121758443 321771204 / 121758444 321771205 / 121758445 321771206 / 121758446 321771207 / 121758447	11.2-11.7	1 - 24	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD2	E	321771208 / 121758305 321771209 / 121758306 321771210 / 121758307 321771211 / 121758308 321771212 / 121758309 321771213 / 121758310 321771214 / 121758311	10.7-11.2	1 - 24	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD2	E	321771215 / 121758312 321771216 / 121758313 321771217 / 121758314 321771218 / 121758315 321771219 / 121758316 321771220 / 121758317 321771221 / 121758318	12.5-12.75	1 - 24	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD2	E	321771222 / 121758319 321771223 / 121758320	11.7-12.2	1 - 24	1	RR 22.5C4 RR 22.5C8	Pass Pass	Favorable

		321771224 / 121758321 321771225 / 121758322 321771226 / 121758323 321771227 / 121758324 321771228 / 121758325				TABLE 22-1A TABLE 22-1D	Pass Pass	
KUD2	E	321771229 / 121758326 321771230 / 121758327 321771231 / 121758328 321771232 / 121758329 321771233 / 121758330 321771234 / 121758331 321771235 / 121758332	12.2-12.75	1 - 24	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass	Favorable
KUD2	E	321771236 / 121758448 321771237 / 121758449 321771238 / 121758450 321771239 / 121758451 321771240 / 121758452 321771241 / 121758453 321771242 / 121758454	11.2-11.7	1 - 24	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass 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.