

## 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
31	↓	19700	20200	All
32	↓	17700	18600	All
33	↔	17700	18400	All
34	↑	27500	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)	4

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1050/1050/89	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
4E-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	1

##### Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
S2KAU5R, S2KAU6R, S2KAU7R, S2KAU8R	R	27500	30000	10
S2KAD2R, S2KAD3R, S2KAD4R	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
S2KAU5R	R	320750310 320750311 320750312 320750313 320750314 320750315	27.5-28.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU5R	R	320750388 320750390 320750392 320750394 320750396 320750398	28.5-29.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU5R	R	320750389 320750391 320750393 320750395 320750397 320750399	29.5-30	13 - 24	34	TABLE 22-2	Pass	Favorable

S2KAU6R	R	320750316 320750317 320750318 320750319 320750320 320750321	27.5-28.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU6R	R	320750400 320750402 320750404 320750406 320750408 320750410	28.5-29.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU6R	R	320750401 320750403 320750405 320750407 320750409 320750411	29.5-30	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU7R	R	320750322 320750323 320750324 320750325 320750326 320750327	27.5-28.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU7R	R	320750412 320750414 320750416 320750418 320750420 320750422	28.5-29.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU7R	R	320750413 320750415 320750417 320750419 320750421 320750423	29.5-30	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU8R	R	320750328 320750329 320750330 320750331 320750332 320750333	27.5-28.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU8R	R	320750424 320750426 320750428 320750430 320750432 320750434	28.5-29.5	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAU8R	R	320750425 320750427 320750429 320750431 320750433 320750435	29.5-30	13 - 24	34	TABLE 22-2	Pass	Favorable
S2KAD2R	E	320750148 320750149 320750150 320750151 320750152 320750153 320750154 320750155	17.825-18.2	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD2R	E	320750156 320750157 320750158 320750159 320750160 320750161 320750162 320750163	19.7-20.2	13 - 24	31	TABLE 22-1C	Pass	Favorable
S2KAD2R	E	320750164 320750165 320750166	17.7-17.825	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		320750167 320750168 320750169 320750170 320750171 320750172 320750173 320750174 320750175 320750176 320750177 320750178 320750179						
S2KAD2R	E	320750340 320750342 320750344 320750346 320750348 320750350 320750352 320750354	18.2-18.6	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD3R	E	320750180 320750181 320750182 320750183 320750184 320750185 320750186 320750187	17.825-18.2	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD3R	E	320750188 320750189 320750190 320750191 320750192 320750193 320750194 320750195	19.7-20.2	13 - 24	31	TABLE 22-1C	Pass	Favorable
S2KAD3R	E	320750196 320750197 320750198 320750199 320750200 320750201 320750202 320750203 320750204 320750205 320750206 320750207 320750208 320750209 320750210 320750211	17.7-17.825	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD3R	E	320750356 320750358 320750360 320750362 320750364 320750366 320750368 320750370	18.2-18.6	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD4R	E	320750212 320750213 320750214 320750215 320750216 320750217 320750218 320750219	17.825-18.2	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD4R	E	320750220 320750221 320750222 320750223	19.7-20.2	13 - 24	31	TABLE 22-1C	Pass	Favorable

		320750224 320750225 320750226 320750227						
S2KAD4R	E	320750228 320750229 320750230 320750231 320750232 320750233 320750234 320750235 320750236 320750237 320750238 320750239 320750240 320750241 320750242 320750243	17.7-17.825	13 - 24	32, 33	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
S2KAD4R	E	320750372 320750374 320750376 320750378 320750380 320750382 320750384 320750386	18.2-18.6	13 - 24	32, 33	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.