

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	↔	10700	12750	All
3	↑	12750	14500	All
4	↓	17800	20200	All
5	↔	17800	18400	All
6	↑	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)	35.4

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
43497/8102/63.4	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
1E-06	999	1

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	55	0
55	82	1
82	90	2

Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
KU2U	R	12750	13250	empty
KU1U	R	14000	14500	empty
KA1U, KA3U, KA8U	R	27500	30000	empty
KA2U, KA4U	R	29500	30000	empty
KU1D, KU2D, KU3D	E	10700	12750	empty
KA1D, KA3D, KA5D, KA8D	E	17800	20200	empty
KA7D	E	17800	18600	empty
KA2D, KA4D, KA6D	E	19700	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
KA1U	R	318750462 / 118692628	27.5-28.6	1	6	TABLE 22-2	Pass	Favorable
KA1U	R	318750463 / 118692632 318750464 / 118692633 318750466 / 118692637 318750467 / 118692638 318750468 / 118692639 318750469 / 118692641 318750470 / 118692830 318750471 / 118692831	29.5-30	1	6	TABLE 22-2	Pass	Favorable
KA1U	R	318750465 / 118692635	27.51-28.6	1	6	TABLE 22-2	Pass	Favorable

KA2U	R	318750472 / 118692654 318750473 / 118692656 318750476 / 118692659 318750478 / 118692661 318750480 / 118692671 318750481 / 118692672 318750482 / 118692673 318750485 / 118692838 318750486 / 118692839	29.9-30	1	6	TABLE 22-2	Pass	Favorable
KA2U	R	318750474 / 118692657	29.5-30	1	6	TABLE 22-2	Pass	Favorable
KA2U	R	318750475 / 118692658 318750477 / 118692660 318750479 / 118692662 318750483 / 118692836 318750484 / 118692837	29.5-29.9	1	6	TABLE 22-2	Pass	Favorable
KA3U	R	318750487 / 118692678	27.5-28.6	1	6	TABLE 22-2	Pass	Favorable
KA3U	R	318750488 / 118692682 318750489 / 118692683 318750491 / 118692687 318750492 / 118692688 318750493 / 118692689 318750494 / 118692691 318750495 / 118692844 318750496 / 118692845	29.5-30	1	6	TABLE 22-2	Pass	Favorable
KA3U	R	318750490 / 118692865	27.51-28.6	1	6	TABLE 22-2	Pass	Favorable
KA4U	R	318750497 / 118692704 318750498 / 118692706 318750501 / 118692709 318750503 / 118692711 318750505 / 118692721 318750506 / 118692722 318750507 / 118692723 318750510 / 118692852 318750511 / 118692853	29.9-30	1	6	TABLE 22-2	Pass	Favorable
KA4U	R	318750499 / 118692707	29.5-30	1	6	TABLE 22-2	Pass	Favorable
KA4U	R	318750500 / 118692708 318750502 / 118692710 318750504 / 118692712 318750508 / 118692850 318750509 / 118692851	29.5-29.9	1	6	TABLE 22-2	Pass	Favorable
KA8U	R	318750512 / 118692976	27.5-28.6	1	6	TABLE 22-2	Pass	Favorable
KA8U	R	318750513 / 118692980 318750514 / 118692981 318750516 / 118692985 318750517 / 118692986 318750518 / 118692987 318750519 / 118692989 318750520 / 118692992 318750521 / 118692993	29.5-30	1	6	TABLE 22-2	Pass	Favorable
KA8U	R	318750515 / 118692983	27.51-28.6	1	6	TABLE 22-2	Pass	Favorable
KU1U	R	318750522 / 118692728 318750523 / 118692729 318750524 / 118692730 318750525 / 118692731 318750526 / 118692732 318750527 / 118692733 318750528 / 118692952	14-14.5	1	3	TABLE 22-2	Pass	Favorable
KU2U	R	318750529 / 118692780 318750530 / 118692781 318750531 / 118692782 318750532 / 118692783 318750533 / 118692784 318750534 / 118692785	12.75- 13.25	1	3	TABLE 22-2	Pass	Favorable
KA1D	E	318750235 / 118692411 318750237 / 118692415 318750238 / 118692416 318750239 / 118692417 318750240 / 118692418 318750243 / 118692788 318750244 / 118692789	19.7-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA1D	E	318750236 / 118692414	18.2-18.6	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

KA1D	E	318750241 / 118692419	17.8-18.1	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA1D	E	318750242 / 118692420	18.1-18.2	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA2D	E	318750245 / 118692433 318750248 / 118692436 318750250 / 118692440 318750256 / 118692796 318750257 / 118692797	19.7-20.1	1	4	TABLE 22-1C	Pass	Favorable
KA2D	E	318750246 / 118692434 318750247 / 118692435 318750249 / 118692439 318750251 / 118692451 318750252 / 118692452 318750253 / 118692453 318750254 / 118692794 318750255 / 118692795	20.1-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA3D	E	318750258 / 118692461 318750260 / 118692465 318750261 / 118692466 318750262 / 118692467 318750263 / 118692468 318750266 / 118692802 318750267 / 118692803	19.7-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA3D	E	318750259 / 118692464	18.2-18.6	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA3D	E	318750264 / 118692469	17.8-18.1	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA3D	E	318750265 / 118692470	18.1-18.2	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA4D	E	318750268 / 118692483 318750271 / 118692486 318750273 / 118692490 318750279 / 118692810 318750280 / 118692811	19.7-20.1	1	4	TABLE 22-1C	Pass	Favorable
KA4D	E	318750269 / 118692484 318750270 / 118692485 318750272 / 118692489 318750274 / 118692501 318750275 / 118692502 318750276 / 118692503 318750277 / 118692808 318750278 / 118692809	20.1-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA5D	E	318750281 / 118692511 318750283 / 118692515 318750284 / 118692516 318750285 / 118692517 318750286 / 118692518 318750289 / 118692816 318750290 / 118692817	19.7-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA5D	E	318750282 / 118692514	18.2-18.6	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA5D	E	318750287 / 118692519	17.8-18.1	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA5D	E	318750288 / 118692520	18.1-18.2	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA6D	E	318750291 / 118692533 318750294 / 118692536 318750296 / 118692540 318750302 / 118692824 318750303 / 118692825	19.7-20.1	1	4	TABLE 22-1C	Pass	Favorable
KA6D	E	318750292 / 118692534 318750293 / 118692535 318750295 / 118692539 318750297 / 118692551 318750298 / 118692552 318750299 / 118692553 318750300 / 118692822 318750301 / 118692823	20.1-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA7D	E	318750304 / 118692558 318750305 / 118692559 318750306 / 118692560	17.8-18.1	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		318750307 / 118692561 318750308 / 118692562 318750314 / 118738974 318750315 / 118738975 318750316 / 118738976 318750317 / 118738977 318750318 / 118738978						
KA7D	E	318750309 / 118692563 318750310 / 118692565 318750311 / 118692567 318750312 / 118692569 318750313 / 118692571 318750319 / 118738979 318750320 / 118738981 318750321 / 118738983 318750322 / 118738985 318750323 / 118738987	18.1-18.6	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA8D	E	318750324 / 118692962 318750326 / 118692966 318750327 / 118692967 318750328 / 118692968 318750329 / 118692969 318750332 / 118692974 318750333 / 118692975	19.7-20.2	1	4	TABLE 22-1C	Pass	Favorable
KA8D	E	318750325 / 118692965	18.2-18.6	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA8D	E	318750330 / 118692970	17.8-18.1	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KA8D	E	318750331 / 118692971	18.1-18.2	1	4, 5	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KU1D	E	318750334 / 118692573 318750335 / 118692574 318750336 / 118692575 318750337 / 118692576 318750338 / 118692577 318750359 / 118692954	10.7-11.45	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU1D	E	318750339 / 118692578 318750340 / 118692579 318750341 / 118692580 318750342 / 118692581 318750343 / 118692582 318750360 / 118692955 318750376 / 118738786 318750377 / 118738787 318750378 / 118738788 318750379 / 118738789 318750380 / 118738790 318750381 / 118738791	11.7-12.2	1	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KU1D	E	318750344 / 118692583 318750345 / 118692584 318750346 / 118692585 318750347 / 118692586 318750348 / 118692587 318750361 / 118692956	12.5-12.75	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU1D	E	318750349 / 118692588 318750350 / 118692589 318750351 / 118692590 318750352 / 118692591 318750353 / 118692592 318750362 / 118692957	12.5-12.7	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU1D	E	318750354 / 118692739 318750355 / 118692740 318750356 / 118692741 318750357 / 118692742 318750358 / 118692743 318750363 / 118692958	12.2-12.5	1	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KU1D	E	318750364 / 118692994 318750366 / 118692996 318750368 / 118692998 318750370 / 118693000 318750372 / 118693002 318750374 / 118693024	10.95-11.2	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

KU1D	E	318750365 / 118692995 318750367 / 118692997 318750369 / 118692999 318750371 / 118693001 318750373 / 118693003 318750375 / 118693025	11.45-11.7	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU2D	E	318750382 / 118692593 318750383 / 118692594 318750384 / 118692595 318750385 / 118692596 318750386 / 118692597	10.7-11.45	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU2D	E	318750387 / 118692598 318750388 / 118692599 318750389 / 118692600 318750390 / 118692601 318750391 / 118692602	12.5-12.75	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU2D	E	318750392 / 118692603 318750393 / 118692604 318750394 / 118692605 318750395 / 118692606 318750396 / 118692607	12.5-12.7	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU2D	E	318750397 / 118692744 318750398 / 118692745 318750399 / 118692746 318750400 / 118692747 318750401 / 118692748 318750417 / 118738792 318750418 / 118738793 318750419 / 118738794 318750420 / 118738795 318750421 / 118738796	11.7-12.2	1	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KU2D	E	318750402 / 118692749 318750403 / 118692750 318750404 / 118692751 318750405 / 118692752 318750406 / 118692753	12.2-12.5	1	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KU2D	E	318750407 / 118693004 318750409 / 118693006 318750411 / 118693008 318750413 / 118693010 318750415 / 118693012	10.95-11.2	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU2D	E	318750408 / 118693005 318750410 / 118693007 318750412 / 118693009 318750414 / 118693011 318750416 / 118693013	11.45-11.7	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU3D	E	318750422 / 118692608 318750423 / 118692609 318750424 / 118692610 318750425 / 118692611 318750426 / 118692612	10.7-11.45	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU3D	E	318750427 / 118692613 318750428 / 118692614 318750429 / 118692615 318750430 / 118692616 318750431 / 118692617	12.5-12.75	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU3D	E	318750432 / 118692618 318750433 / 118692619 318750434 / 118692620 318750435 / 118692621 318750436 / 118692622	12.5-12.7	1	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KU3D	E	318750437 / 118692754 318750438 / 118692755 318750439 / 118692756 318750440 / 118692757 318750441 / 118692758 318750457 / 118738797 318750458 / 118738798 318750459 / 118738799 318750460 / 118738800 318750461 / 118738801	11.7-12.2	1	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KU3D	E	318750442 / 118692759 318750443 / 118692760	12.2-12.5	1	1	RR 22.5C4 RR 22.5C8	Pass Pass	Favorable

		318750444 / 118692761 318750445 / 118692762 318750446 / 118692763				TABLE 22-1A TABLE 22-1D	Pass Pass	
KU3D	E	318750447 / 118693014 318750449 / 118693016 318750451 / 118693018 318750453 / 118693020 318750455 / 118693022	10.95-11.2	1	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KU3D	E	318750448 / 118693015 318750450 / 118693017 318750452 / 118693019 318750454 / 118693021 318750456 / 118693023	11.45-11.7	1	1, 2	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.