

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	↑	13750	14000	All
4	↑	12750	13250	All
5	↑	14000	14500	All
6	↓	17800	18600	All
7	↓	19700	20200	All
8	↔	17800	18600	All
9	↑	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)	10

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
809/791/98.6	No keeping	Default

Uplink (Gateway)

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
4E-06	500	20

Downlink (Gateway)

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	20

Uplink (User)

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
4E-06	500	1

Downlink (User)

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
RU2U1, RU2U2	R	14000	14500	12
RU2G	R	13750	14500	12
RU1G, RU1U1, RU1U2	R	12750	13250	12
RA2G, RA2U1, RA2U2	R	29500	30000	12
RA1G, RA1U1, RA1U2	R	27500	29100	12
RU2T	R	13750	14500	5
RU1T	R	12750	13250	5
RA2T	R	29500	30000	5
RA1T	R	27500	29100	5
TU2B, TU2G, TU2U1, TU2U2	E	11700	12750	12
TU1B, TU1G, TU1U1, TU1U2	E	10700	11700	12

TA2B, TA2G, TA2U1, TA2U2	E	19700	20200	12
TA1B, TA1G, TA1U1, TA1U2	E	17800	18600	12
TU2T	E	11700	12750	5
TU1T	E	10700	11700	5
TA2T	E	19700	20200	5
TA1T	E	17800	18600	5

Results

<i>B1A</i>	<i>B2</i>	<i>BR7a</i>	<i>GHz</i>	<i>Orbital planes id. no.</i>	<i>Mask ID</i>	<i>Article 22 Limit</i>	<i>Result</i>	<i>Article 22 Examination</i>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
RA1G	R	320763505 / 117852862 320763506 / 117852863 320763507 / 117852864 320763511 / 117852868 320763512 / 117852869 320763513 / 117852870	27.5-28.5	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1G	R	320763508 / 117852865 320763509 / 117852866 320763510 / 117852867 320763514 / 117852871 320763515 / 117852872 320763516 / 117852873	28.5-29.1	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1T	R	320763517 / 117852874 320763518 / 117852875 320763519 / 117852876 320763523 / 117852880 320763524 / 117852881 320763525 / 117852882	27.5-28.5	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1T	R	320763520 / 117852877 320763521 / 117852878 320763522 / 117852879 320763526 / 117852883 320763527 / 117852884 320763528 / 117852885	28.5-29.1	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1U1	R	320763529 / 117852892 320763530 / 117852893 320763531 / 117852894 320763532 / 117852895	27.5-28.5	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1U1	R	320763533 / 117852896 320763534 / 117852897 320763535 / 117852898 320763536 / 117852899	28.5-29.1	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1U2	R	320763537 / 117852908 320763538 / 117852909 320763539 / 117852910 320763540 / 117852911	27.5-28.5	1 - 8	9	TABLE 22-2	Pass	Favorable
RA1U2	R	320763541 / 117852912 320763542 / 117852913 320763543 / 117852914 320763544 / 117852915	28.5-29.1	1 - 8	9	TABLE 22-2	Pass	Favorable
RA2G	R	320763545 / 117852927 320763546 / 117852928 320763547 / 117852929 320763548 / 117852933 320763549 / 117852934 320763550 / 117852935	29.5-30	1 - 8	9	TABLE 22-2	Pass	Favorable
RA2T	R	320763551 / 117852939 320763552 / 117852940 320763553 / 117852941 320763554 / 117852945 320763555 / 117852946 320763556 / 117852947	29.5-30	1 - 8	9	TABLE 22-2	Pass	Favorable
RA2U1	R	320763557 / 117852957 320763558 / 117852958 320763559 / 117852959 320763560 / 117852960	29.5-30	1 - 8	9	TABLE 22-2	Pass	Favorable

RA2U2	R	320763561 / 117852969 320763562 / 117852970 320763563 / 117852971 320763564 / 117852972	29.5-30	1 - 8	9	TABLE 22-2	Pass	Favorable
RU1G	R	320763565 / 117852981 320763566 / 117852982 320763567 / 117852983 320763568 / 117852984 320763569 / 117852985 320763570 / 117852986	12.75- 13.25	1 - 8	4	TABLE 22-2	Pass	Favorable
RU1T	R	320763571 / 117852987 320763572 / 117852988 320763573 / 117852989 320763574 / 117852990 320763575 / 117852991 320763576 / 117852992	12.75- 13.25	1 - 8	4	TABLE 22-2	Pass	Favorable
RU1U1	R	320763577 / 117852996 320763578 / 117852997 320763579 / 117852998 320763580 / 117852999	12.75- 13.25	1 - 8	4	TABLE 22-2	Pass	Favorable
RU1U2	R	320763581 / 117853004 320763582 / 117853005 320763583 / 117853006 320763584 / 117853007	12.75- 13.25	1 - 8	4	TABLE 22-2	Pass	Favorable
RU2G	R	320763585 / 117853012 320763589 / 117853016	13.75-14	1 - 8	3	TABLE 22-2	Pass	Favorable
RU2G	R	320763586 / 117853013 320763587 / 117853014 320763588 / 117853015 320763590 / 117853017 320763591 / 117853018 320763592 / 117853019	14-14.5	1 - 8	5	TABLE 22-2	Pass	Favorable
RU2T	R	320763593 / 117853020 320763597 / 117853024	13.75-14	1 - 8	3	TABLE 22-2	Pass	Favorable
RU2T	R	320763594 / 117853021 320763595 / 117853022 320763596 / 117853023 320763598 / 117853025 320763599 / 117853026 320763600 / 117853027	14-14.5	1 - 8	5	TABLE 22-2	Pass	Favorable
RU2U1	R	320763601 / 117853035 320763602 / 117853036 320763603 / 117853037 320763604 / 117853038	14-14.5	1 - 8	5	TABLE 22-2	Pass	Favorable
RU2U2	R	320763605 / 117853049 320763606 / 117853050 320763607 / 117853051 320763608 / 117853052	14-14.5	1 - 8	5	TABLE 22-2	Pass	Favorable
TA1B	E	320763337 / 117852520 320763338 / 117852521 320763339 / 117852522 320763340 / 117852523	17.8-18.6	1 - 8	6, 8	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TA1G	E	320763341 / 117852528 320763342 / 117852529 320763343 / 117852530 320763344 / 117852531 320763345 / 117852532 320763346 / 117852533	17.8-18.6	1 - 8	6, 8	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TA1T	E	320763347 / 117852534 320763348 / 117852535 320763349 / 117852536 320763350 / 117852537 320763351 / 117852538 320763352 / 117852539	17.8-18.6	1 - 8	6, 8	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TA1U1	E	320763353 / 117789397 320763354 / 117789398 320763355 / 117789399 320763356 / 117789400	17.8-18.6	1 - 8	6, 8	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TA1U2	E	320763357 / 117789401 320763358 / 117789402 320763359 / 117789403 320763360 / 117789404	17.8-18.6	1 - 8	6, 8	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

TA2B	E	320763361 / 117852563 320763362 / 117852564 320763363 / 117852565 320763364 / 117852566	19.7-20.2	1 - 8	7	TABLE 22-1C	Pass	Favorable
TA2G	E	320763365 / 117852585 320763366 / 117852586 320763367 / 117852587 320763368 / 117852594 320763369 / 117852595 320763370 / 117852596	19.7-20.2	1 - 8	7	TABLE 22-1C	Pass	Favorable
TA2T	E	320763371 / 117852603 320763372 / 117852604 320763373 / 117852605 320763374 / 117852612 320763375 / 117852613 320763376 / 117852614	19.7-20.2	1 - 8	7	TABLE 22-1C	Pass	Favorable
TA2U1	E	320763377 / 117852631 320763378 / 117852632 320763379 / 117852633 320763380 / 117852634	19.7-20.2	1 - 8	7	TABLE 22-1C	Pass	Favorable
TA2U2	E	320763381 / 117852651 320763382 / 117852652 320763383 / 117852653 320763384 / 117852654	19.7-20.2	1 - 8	7	TABLE 22-1C	Pass	Favorable
TU1B	E	320763385 / 117852667 320763386 / 117852668 320763387 / 117852669 320763388 / 117852670	10.7-11.7	1 - 8	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TU1G	E	320763389 / 117852675 320763390 / 117852676 320763391 / 117852677 320763392 / 117852678 320763393 / 117852679 320763394 / 117852680	10.7-11.7	1 - 8	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TU1T	E	320763395 / 117852681 320763396 / 117852682 320763397 / 117852683 320763398 / 117852684 320763399 / 117852685 320763400 / 117852686	10.7-11.7	1 - 8	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TU1U1	E	320763401 / 117789277 320763402 / 117789278 320763403 / 117789279 320763404 / 117789280	10.7-11.7	1 - 8	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TU1U2	E	320763405 / 117789281 320763406 / 117789282 320763407 / 117789283 320763408 / 117789284	10.7-11.7	1 - 8	1, 2	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
TU2B	E	320763409 / 117852706 320763410 / 117852707 320763411 / 117852708 320763412 / 117852709	11.7-12.2	1 - 8	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TU2B	E	320763413 / 117852710 320763414 / 117852711 320763415 / 117852712 320763416 / 117852713	12.2-12.7	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2B	E	320763417 / 117852714 320763418 / 117852715 320763419 / 117852716 320763420 / 117852717 320763421 / 117852718 320763422 / 117852719 320763423 / 117852720 320763424 / 117852721	12.5-12.75	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass Pass Pass Pass	Favorable
TU2G	E	320763425 / 117852738 320763426 / 117852739 320763427 / 117852740 320763437 / 117852750 320763438 / 117852751 320763439 / 117852752	11.7-12.2	1 - 8	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TU2G	E	320763428 / 117852741 320763429 / 117852742	12.2-12.7	1 - 8	1, 2	RR 22.5C4 RR 22.5C8	Pass Pass	Favorable

		320763430 / 117852743 320763440 / 117852753 320763441 / 117852754 320763442 / 117852755				TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass	
TU2G	E	320763431 / 117852744 320763432 / 117852745 320763433 / 117852746 320763434 / 117852747 320763435 / 117852748 320763436 / 117852749 320763443 / 117852756 320763444 / 117852757 320763445 / 117852758 320763446 / 117852759 320763447 / 117852760 320763448 / 117852761	12.5-12.75	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2T	E	320763449 / 117852762 320763450 / 117852763 320763451 / 117852764 320763461 / 117852774 320763462 / 117852775 320763463 / 117852776	11.7-12.2	1 - 8	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TU2T	E	320763452 / 117852765 320763453 / 117852766 320763454 / 117852767 320763464 / 117852777 320763465 / 117852778 320763466 / 117852779	12.2-12.7	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2T	E	320763455 / 117852768 320763456 / 117852769 320763457 / 117852770 320763458 / 117852771 320763459 / 117852772 320763460 / 117852773 320763467 / 117852780 320763468 / 117852781 320763469 / 117852782 320763470 / 117852783 320763471 / 117852784 320763472 / 117852785	12.5-12.75	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2U1	E	320763473 / 117789295 320763474 / 117789296 320763475 / 117789297 320763476 / 117789298	11.7-12.2	1 - 8	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TU2U1	E	320763477 / 117789313 320763478 / 117789314 320763479 / 117789315 320763480 / 117789316	12.2-12.7	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2U1	E	320763481 / 117789331 320763482 / 117789332 320763483 / 117789333 320763484 / 117789334 320763485 / 117789349 320763486 / 117789350 320763487 / 117789351 320763488 / 117789352	12.5-12.75	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2U2	E	320763489 / 117789299 320763490 / 117789300 320763491 / 117789301 320763492 / 117789302	11.7-12.2	1 - 8	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TU2U2	E	320763493 / 117789317 320763494 / 117789318 320763495 / 117789319 320763496 / 117789320	12.2-12.7	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
TU2U2	E	320763497 / 117789335 320763498 / 117789336 320763499 / 117789337 320763500 / 117789338 320763501 / 117789353 320763502 / 117789354	12.5-12.75	1 - 8	1, 2	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable

		320763503 / 117789355 320763504 / 117789356						
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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.