

E_TSUM Requested by: LS		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO		
A	A1a Sat. Network LS-4		A1f1 Notif. adm. D		A1f3 Inter. sat. org.		BR1 Date of receipt 11.12.2019		BR20 BR IFIC no.	
BR6a/BR6b Id. no. 1			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.				

Résumé / Summary / Resumen

Article 9, sous-section IA / Article 9, sub-section IA / Artículo 9, sub-sección IA
 第9条第1A分节 / Статья 9, подраздел IA / المادة 9، القسم الفرعي IA

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	BR47 Frequency band (MHz)	C4a Class of station
868U	R		1		862 – 870	EI, EW
915U	R		2		902 – 928	EI, EW
401	E		7		401 – 402	ET
460D	E		6		460 – 470	EW
868D	E		3		862 – 870	EI, EW
915D	E		4		902 – 928	EI, EW
FTS	E		5		400,05 – 400,15	EE, EY

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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		868U R

A1f2 Submitted on behalf									
A4b1 No. of orbital planes	48	A4b2 Ref. body	T	BR43 Orbital configuration					
A4b3a No. of space stations simult. trans. on Northern Hemisphere					A4b3b No. of space stations simult. trans. on Southern Hemisphere				

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BR6a/BR6b Id. no. 1			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.			868U R	

Orbital plane id. no.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4e Perigee	A4b4f Min. altitude
1	97,9	11	0-01:36	600e0	400e0	400e0
2	97,9	11	0-01:36	600e0	400e0	400e0
3	97,9	11	0-01:36	600e0	400e0	400e0
4	97,9	11	0-01:36	600e0	400e0	400e0
5	97,9	11	0-01:36	600e0	400e0	400e0
6	97,9	11	0-01:36	600e0	400e0	400e0
7	97,9	11	0-01:36	600e0	400e0	400e0
8	97,9	11	0-01:36	600e0	400e0	400e0
9	97,9	11	0-01:36	600e0	400e0	400e0
10	97,9	11	0-01:36	600e0	400e0	400e0
11	97,9	11	0-01:36	600e0	400e0	400e0
12	97,9	11	0-01:36	600e0	400e0	400e0
13	97,9	11	0-01:36	600e0	400e0	400e0
14	97,9	11	0-01:36	600e0	400e0	400e0
15	97,9	11	0-01:36	600e0	400e0	400e0
16	97,9	11	0-01:36	600e0	400e0	400e0
17	97,9	11	0-01:36	600e0	400e0	400e0
18	97,9	11	0-01:36	600e0	400e0	400e0
19	97,9	11	0-01:36	600e0	400e0	400e0
20	97,9	11	0-01:36	600e0	400e0	400e0
21	97,9	11	0-01:36	600e0	400e0	400e0
22	97,9	11	0-01:36	600e0	400e0	400e0
23	97,9	11	0-01:36	600e0	400e0	400e0
24	97,9	11	0-01:36	600e0	400e0	400e0
25	42	11	0-01:36	600e0	400e0	400e0
26	42	11	0-01:36	600e0	400e0	400e0
27	42	11	0-01:36	600e0	400e0	400e0
28	42	11	0-01:36	600e0	400e0	400e0
29	42	11	0-01:36	600e0	400e0	400e0
30	42	11	0-01:36	600e0	400e0	400e0
31	42	11	0-01:36	600e0	400e0	400e0
32	42	11	0-01:36	600e0	400e0	400e0
33	42	11	0-01:36	600e0	400e0	400e0
34	42	11	0-01:36	600e0	400e0	400e0
35	42	11	0-01:36	600e0	400e0	400e0
36	42	11	0-01:36	600e0	400e0	400e0
37	42	11	0-01:36	600e0	400e0	400e0
38	42	11	0-01:36	600e0	400e0	400e0
39	42	11	0-01:36	600e0	400e0	400e0
40	42	11	0-01:36	600e0	400e0	400e0
41	42	11	0-01:36	600e0	400e0	400e0
42	42	11	0-01:36	600e0	400e0	400e0
43	42	11	0-01:36	600e0	400e0	400e0
44	42	11	0-01:36	600e0	400e0	400e0
45	42	11	0-01:36	600e0	400e0	400e0
46	42	11	0-01:36	600e0	400e0	400e0
47	42	11	0-01:36	600e0	400e0	400e0
48	42	11	0-01:36	600e0	400e0	400e0

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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.			868U R

Orbital plane no.	Satellite no.		
1	1		
1	2		
1	3		
1	4		
1	5		
1	6		
1	7		
1	8		
1	9		
1	10		
1	11		
2	1		
2	2		
2	3		
2	4		
2	5		
2	6		
2	7		
2	8		
2	9		
2	10		
2	11		
3	1		
3	2		
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3	10		
3	11		
4	1		
4	2		
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4	5		
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4	10		
4	11		
5	1		
5	2		
5	3		
5	4		

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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		868U R

Orbital plane no.	Satellite no.		
5	5		
5	6		
5	7		
5	8		
5	9		
5	10		
5	11		
6	1		
6	2		
6	3		
6	4		
6	5		
6	6		
6	7		
6	8		
6	9		
6	10		
6	11		
7	1		
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7	3		
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9	9		

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.			868U R

Orbital plane no.	Satellite no.		
9	10		
9	11		
10	1		
10	2		
10	3		
10	4		
10	5		
10	6		
10	7		
10	8		
10	9		
10	10		
10	11		
11	1		
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13	9		
13	10		
13	11		
14	1		
14	2		
14	3		

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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.			868U R

Orbital plane no.	Satellite no.		
14	4		
14	5		
14	6		
14	7		
14	8		
14	9		
14	10		
14	11		
15	1		
15	2		
15	3		
15	4		
15	5		
15	6		
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15	9		
15	10		
15	11		
16	1		
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18	8		

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BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.			868U R

Orbital plane no.	Satellite no.		
18	9		
18	10		
18	11		
19	1		
19	2		
19	3		
19	4		
19	5		
19	6		
19	7		
19	8		
19	9		
19	10		
19	11		
20	1		
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22	9		
22	10		
22	11		
23	1		
23	2		

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Orbital plane no.	Satellite no.		
23	3		
23	4		
23	5		
23	6		
23	7		
23	8		
23	9		
23	10		
23	11		
24	1		
24	2		
24	3		
24	4		
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24	9		
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24	11		
25	1		
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25	11		
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26	10		
26	11		
27	1		
27	2		
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27	5		
27	6		
27	7		

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Orbital plane no.	Satellite no.		
27	8		
27	9		
27	10		
27	11		
28	1		
28	2		
28	3		
28	4		
28	5		
28	6		
28	7		
28	8		
28	9		
28	10		
28	11		
29	1		
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30	11		
31	1		
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31	9		
31	10		
31	11		
32	1		

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Orbital plane no.	Satellite no.		
32	2		
32	3		
32	4		
32	5		
32	6		
32	7		
32	8		
32	9		
32	10		
32	11		
33	1		
33	2		
33	3		
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33	11		
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36	5		
36	6		

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Orbital plane no.	Satellite no.		
36	7		
36	8		
36	9		
36	10		
36	11		
37	1		
37	2		
37	3		
37	4		
37	5		
37	6		
37	7		
37	8		
37	9		
37	10		
37	11		
38	1		
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40	11		

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Orbital plane no.	Satellite no.		
41	1		
41	2		
41	3		
41	4		
41	5		
41	6		
41	7		
41	8		
41	9		
41	10		
41	11		
42	1		
42	2		
42	3		
42	4		
42	5		
42	6		
42	7		
42	8		
42	9		
42	10		
42	11		
43	1		
43	2		
43	3		
43	4		
43	5		
43	6		
43	7		
43	8		
43	9		
43	10		
43	11		
44	1		
44	2		
44	3		
44	4		
44	5		
44	6		
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44	8		
44	9		
44	10		
44	11		
45	1		
45	2		
45	3		
45	4		
45	5		

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Orbital plane no.	Satellite no.		
45	6		
45	7		
45	8		
45	9		
45	10		
45	11		
46	1		
46	2		
46	3		
46	4		
46	5		
46	6		
46	7		
46	8		
46	9		
46	10		
46	11		
47	1		
47	2		
47	3		
47	4		
47	5		
47	6		
47	7		
47	8		
47	9		
47	10		
47	11		
48	1		
48	2		
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48	6		
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48	9		
48	10		
48	11		

B1a/BR17 Beam designation		868U	B1b Steerable			B2 Emi-Rcp	R	B3a1 Max. co-polar gain	7
B2bis.a Transmit only when visible from notified service area			B2bis.b Min. Elev. Angle						
B3c1 Co-polar antenna pattern									
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.	1		
List of orbital planes									
ALL									

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B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	1	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	Y
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BR14 Special Section

C4a Class of station

EI EW

C3a Assigned freq. band

C5a Noise temperature

500

C4b Nature of service

CP CP

C6a Polarization type

CR

C6b Polarization angle

C11a2 Service area

XAA

C11a3 Service area diagram

A2b Period of valid.

25

A3a Op. agency

999

A3b Adm. resp.

M

BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
862	MHz	870	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f2 E.i.r.p. on the beam axis
1 350KF1D--	-13	-68,4	-13		-68,4		9,6		
2 350KF1D--	-10	-65,4	-13		-68,4		9,6		
3 350KF1D--	3	-52,4	-13		-68,4		9,6		
4 350KF1D--	0	-55,4	-13		-68,4		9,6		
5 1M50F1D--	-13	-74,8	-13		-74,8		9,6		
6 1M50F1D--	3	-58,8	-13		-74,8		9,6		

C7b Carrier frequency of the emissions (350KF1D--)													
862,175	MHz	862,575	MHz	862,975	MHz	864,075	MHz	868,875	MHz	869,275	MHz	869,675	MHz
862,275	MHz	862,675	MHz	863,075	MHz	867,875	MHz	868,975	MHz	869,375	MHz	869,775	MHz
862,375	MHz	862,775	MHz	863,875	MHz	867,975	MHz	869,075	MHz	869,475	MHz	869,825	MHz
862,475	MHz	862,875	MHz	863,975	MHz	868,075	MHz	869,175	MHz	869,575	MHz		

C7b Carrier frequency of the emissions (350KF1D--)													
863,175	MHz	863,275	MHz	863,375	MHz	863,475	MHz	863,575	MHz	863,675	MHz	863,775	MHz

C7b Carrier frequency of the emissions (350KF1D--)													
864,175	MHz	864,675	MHz	865,175	MHz	865,675	MHz	866,175	MHz	866,675	MHz	867,175	MHz
864,275	MHz	864,775	MHz	865,275	MHz	865,775	MHz	866,275	MHz	866,775	MHz	867,275	MHz
864,375	MHz	864,875	MHz	865,375	MHz	865,875	MHz	866,375	MHz	866,875	MHz	867,375	MHz
864,475	MHz	864,975	MHz	865,475	MHz	865,975	MHz	866,475	MHz	866,975	MHz	867,475	MHz
864,575	MHz	865,075	MHz	865,575	MHz	866,075	MHz	866,575	MHz	867,075	MHz	867,575	MHz

C7b Carrier frequency of the emissions (350KF1D--)													
868,175	MHz	868,275	MHz	868,375	MHz	868,475	MHz	868,575	MHz	868,675	MHz	868,775	MHz

C7b Carrier frequency of the emissions (1M50F1D--)													
863,75	MHz	864,15	MHz	864,55	MHz	867,55	MHz	867,95	MHz	868,35	MHz	868,75	MHz
863,85	MHz	864,25	MHz	864,65	MHz	867,65	MHz	868,05	MHz	868,45	MHz	868,85	MHz
863,95	MHz	864,35	MHz	867,35	MHz	867,75	MHz	868,15	MHz	868,55	MHz	868,95	MHz
864,05	MHz	864,45	MHz	867,45	MHz	867,85	MHz	868,25	MHz	868,65	MHz	869,05	MHz

C7b Carrier frequency of the emissions (1M50F1D--)													
864,75	MHz	865,15	MHz	865,55	MHz	865,95	MHz	866,35	MHz	866,75	MHz	867,15	MHz
864,85	MHz	865,25	MHz	865,65	MHz	866,05	MHz	866,45	MHz	866,85	MHz	867,25	MHz
864,95	MHz	865,35	MHz	865,75	MHz	866,15	MHz	866,55	MHz	866,95	MHz		

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO		
A	A1a Sat. Network LS-4		A1f1 Notif. adm. D		A1f3 Inter. sat. org.		BR1 Date of receipt 11.12.2019		BR20 BR IFIC no.	
BR6a/BR6b Id. no. 1			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.			868U R	

865,05	MHz	865,45	MHz	865,85	MHz	866,25	MHz	866,65	MHz	867,05	MHz						
C10b1 Assoc. earth station id.		C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.		C10d3 Max. iso. gain	C10d4 Bmwdth								
NODE		T				1 UA CP 2 UW CP		2,2	120								
C10d5a Co-polar antenna pattern																	
C10b1 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C		Coef. D		Phi1		Co-polar rad. diag.			
NODE		ND-EARTH															

13C Remarks

B1a/BR17 Beam designation 915U		B1b Steerable		B2 Emi-Rcp R		B3a1 Max. co-polar gain 7	
B2bis.a Transmit only when visible from notified service area		B2bis.b Min. Elev. Angle					
B3c1 Co-polar antenna pattern							
Co-polar ref. pattern		Coef. A		Coef. B		Co-polar rad. diag.	
						1	

List of orbital planes
ALL

B4a3a1 Angle alpha

B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	2	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	Y
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BR14 Special Section

C4a Class of station EI EW

C4b Nature of service CP CP

C11a2 Service area XAA

C3a Assigned freq. band

C5a Noise temperature 500

C6a Polarization type CR

C6b Polarization angle

C11a3 Service area diagram

A2b Period of valid. 25

A3a Op. agency 999

A3b Adm. resp. M

BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
902 MHz	928 MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f2 E.i.r.p. on the beam axis
1 350KF1D--	3	-52,4	-13		-68,4		9,6		
2 1M50F1D--	3	-58,8	-13		-74,8		9,6		

C7b Carrier frequency of the emissions (350KF1D--)													
902,175	MHz	905,475	MHz	908,775	MHz	912,075	MHz	915,375	MHz	918,675	MHz	921,975	MHz
902,275	MHz	905,575	MHz	908,875	MHz	912,175	MHz	915,475	MHz	918,775	MHz	922,075	MHz
902,375	MHz	905,675	MHz	908,975	MHz	912,275	MHz	915,575	MHz	918,875	MHz	922,175	MHz
902,475	MHz	905,775	MHz	909,075	MHz	912,375	MHz	915,675	MHz	918,975	MHz	922,275	MHz
902,575	MHz	905,875	MHz	909,175	MHz	912,475	MHz	915,775	MHz	919,075	MHz	922,375	MHz
902,675	MHz	905,975	MHz	909,275	MHz	912,575	MHz	915,875	MHz	919,175	MHz	922,475	MHz
902,775	MHz	906,075	MHz	909,375	MHz	912,675	MHz	915,975	MHz	919,275	MHz	922,575	MHz

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network	LS-4	A1f1 Notif. adm.	D	A1f3 Inter. sat. org.		BR1 Date of receipt	11.12.2019	BR20 BR IFIC no.
BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		915U R

902,875	MHz	906,175	MHz	909,475	MHz	912,775	MHz	916,075	MHz	919,375	MHz	922,675	MHz	925,975	MHz
902,975	MHz	906,275	MHz	909,575	MHz	912,875	MHz	916,175	MHz	919,475	MHz	922,775	MHz	926,075	MHz
903,075	MHz	906,375	MHz	909,675	MHz	912,975	MHz	916,275	MHz	919,575	MHz	922,875	MHz	926,175	MHz
903,175	MHz	906,475	MHz	909,775	MHz	913,075	MHz	916,375	MHz	919,675	MHz	922,975	MHz	926,275	MHz
903,275	MHz	906,575	MHz	909,875	MHz	913,175	MHz	916,475	MHz	919,775	MHz	923,075	MHz	926,375	MHz
903,375	MHz	906,675	MHz	909,975	MHz	913,275	MHz	916,575	MHz	919,875	MHz	923,175	MHz	926,475	MHz
903,475	MHz	906,775	MHz	910,075	MHz	913,375	MHz	916,675	MHz	919,975	MHz	923,275	MHz	926,575	MHz
903,575	MHz	906,875	MHz	910,175	MHz	913,475	MHz	916,775	MHz	920,075	MHz	923,375	MHz	926,675	MHz
903,675	MHz	906,975	MHz	910,275	MHz	913,575	MHz	916,875	MHz	920,175	MHz	923,475	MHz	926,775	MHz
903,775	MHz	907,075	MHz	910,375	MHz	913,675	MHz	916,975	MHz	920,275	MHz	923,575	MHz	926,875	MHz
903,875	MHz	907,175	MHz	910,475	MHz	913,775	MHz	917,075	MHz	920,375	MHz	923,675	MHz	926,975	MHz
903,975	MHz	907,275	MHz	910,575	MHz	913,875	MHz	917,175	MHz	920,475	MHz	923,775	MHz	927,075	MHz
904,075	MHz	907,375	MHz	910,675	MHz	913,975	MHz	917,275	MHz	920,575	MHz	923,875	MHz	927,175	MHz
904,175	MHz	907,475	MHz	910,775	MHz	914,075	MHz	917,375	MHz	920,675	MHz	923,975	MHz	927,275	MHz
904,275	MHz	907,575	MHz	910,875	MHz	914,175	MHz	917,475	MHz	920,775	MHz	924,075	MHz	927,375	MHz
904,375	MHz	907,675	MHz	910,975	MHz	914,275	MHz	917,575	MHz	920,875	MHz	924,175	MHz	927,475	MHz
904,475	MHz	907,775	MHz	911,075	MHz	914,375	MHz	917,675	MHz	920,975	MHz	924,275	MHz	927,575	MHz
904,575	MHz	907,875	MHz	911,175	MHz	914,475	MHz	917,775	MHz	921,075	MHz	924,375	MHz	927,675	MHz
904,675	MHz	907,975	MHz	911,275	MHz	914,575	MHz	917,875	MHz	921,175	MHz	924,475	MHz	927,775	MHz
904,775	MHz	908,075	MHz	911,375	MHz	914,675	MHz	917,975	MHz	921,275	MHz	924,575	MHz		
904,875	MHz	908,175	MHz	911,475	MHz	914,775	MHz	918,075	MHz	921,375	MHz	924,675	MHz		
904,975	MHz	908,275	MHz	911,575	MHz	914,875	MHz	918,175	MHz	921,475	MHz	924,775	MHz		
905,075	MHz	908,375	MHz	911,675	MHz	914,975	MHz	918,275	MHz	921,575	MHz	924,875	MHz		
905,175	MHz	908,475	MHz	911,775	MHz	915,075	MHz	918,375	MHz	921,675	MHz	924,975	MHz		
905,275	MHz	908,575	MHz	911,875	MHz	915,175	MHz	918,475	MHz	921,775	MHz	925,075	MHz		
905,375	MHz	908,675	MHz	911,975	MHz	915,275	MHz	918,575	MHz	921,875	MHz	925,175	MHz		

C7b Carrier frequency of the emissions (1M50F1D--)

902,75	MHz	905,85	MHz	908,95	MHz	912,05	MHz	915,15	MHz	918,25	MHz	921,35	MHz	924,45	MHz
902,85	MHz	905,95	MHz	909,05	MHz	912,15	MHz	915,25	MHz	918,35	MHz	921,45	MHz	924,55	MHz
902,95	MHz	906,05	MHz	909,15	MHz	912,25	MHz	915,35	MHz	918,45	MHz	921,55	MHz	924,65	MHz
903,05	MHz	906,15	MHz	909,25	MHz	912,35	MHz	915,45	MHz	918,55	MHz	921,65	MHz	924,75	MHz
903,15	MHz	906,25	MHz	909,35	MHz	912,45	MHz	915,55	MHz	918,65	MHz	921,75	MHz	924,85	MHz
903,25	MHz	906,35	MHz	909,45	MHz	912,55	MHz	915,65	MHz	918,75	MHz	921,85	MHz	924,95	MHz
903,35	MHz	906,45	MHz	909,55	MHz	912,65	MHz	915,75	MHz	918,85	MHz	921,95	MHz	925,05	MHz
903,45	MHz	906,55	MHz	909,65	MHz	912,75	MHz	915,85	MHz	918,95	MHz	922,05	MHz	925,15	MHz
903,55	MHz	906,65	MHz	909,75	MHz	912,85	MHz	915,95	MHz	919,05	MHz	922,15	MHz	925,25	MHz
903,65	MHz	906,75	MHz	909,85	MHz	912,95	MHz	916,05	MHz	919,15	MHz	922,25	MHz	925,35	MHz
903,75	MHz	906,85	MHz	909,95	MHz	913,05	MHz	916,15	MHz	919,25	MHz	922,35	MHz	925,45	MHz
903,85	MHz	906,95	MHz	910,05	MHz	913,15	MHz	916,25	MHz	919,35	MHz	922,45	MHz	925,55	MHz
903,95	MHz	907,05	MHz	910,15	MHz	913,25	MHz	916,35	MHz	919,45	MHz	922,55	MHz	925,65	MHz
904,05	MHz	907,15	MHz	910,25	MHz	913,35	MHz	916,45	MHz	919,55	MHz	922,65	MHz	925,75	MHz
904,15	MHz	907,25	MHz	910,35	MHz	913,45	MHz	916,55	MHz	919,65	MHz	922,75	MHz	925,85	MHz
904,25	MHz	907,35	MHz	910,45	MHz	913,55	MHz	916,65	MHz	919,75	MHz	922,85	MHz	925,95	MHz
904,35	MHz	907,45	MHz	910,55	MHz	913,65	MHz	916,75	MHz	919,85	MHz	922,95	MHz	926,05	MHz
904,45	MHz	907,55	MHz	910,65	MHz	913,75	MHz	916,85	MHz	919,95	MHz	923,05	MHz	926,15	MHz
904,55	MHz	907,65	MHz	910,75	MHz	913,85	MHz	916,95	MHz	920,05	MHz	923,15	MHz	926,25	MHz
904,65	MHz	907,75	MHz	910,85	MHz	913,95	MHz	917,05	MHz	920,15	MHz	923,25	MHz	926,35	MHz
904,75	MHz	907,85	MHz	910,95	MHz	914,05	MHz	917,15	MHz	920,25	MHz	923,35	MHz	926,45	MHz
904,85	MHz	907,95	MHz	911,05	MHz	914,15	MHz	917,25	MHz	920,35	MHz	923,45	MHz	926,55	MHz
904,95	MHz	908,05	MHz	911,15	MHz	914,25	MHz	917,35	MHz	920,45	MHz	923,55	MHz	926,65	MHz
905,05	MHz	908,15	MHz	911,25	MHz	914,35	MHz	917,45	MHz	920,55	MHz	923,65	MHz	926,75	MHz
905,15	MHz	908,25	MHz	911,35	MHz	914,45	MHz	917,55	MHz	920,65	MHz	923,75	MHz	926,85	MHz
905,25	MHz	908,35	MHz	911,45	MHz	914,55	MHz	917,65	MHz	920,75	MHz	923,85	MHz	926,95	MHz
905,35	MHz	908,45	MHz	911,55	MHz	914,65	MHz	917,75	MHz	920,85	MHz	923,95	MHz	927,05	MHz

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO		
A	A1a Sat. Network LS-4		A1f1 Notif. adm. D		A1f3 Inter. sat. org.		BR1 Date of receipt 11.12.2019		BR20 BR IFIC no.	
BR6a/BR6b Id. no. 1			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.			915U R	

905,45	MHz	908,55	MHz	911,65	MHz	914,75	MHz	917,85	MHz	920,95	MHz	924,05	MHz	927,15	MHz
905,55	MHz	908,65	MHz	911,75	MHz	914,85	MHz	917,95	MHz	921,05	MHz	924,15	MHz	927,25	MHz
905,65	MHz	908,75	MHz	911,85	MHz	914,95	MHz	918,05	MHz	921,15	MHz	924,25	MHz		
905,75	MHz	908,85	MHz	911,95	MHz	915,05	MHz	918,15	MHz	921,25	MHz	924,35	MHz		

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth								
NODE	T			1 UA 2 UW CP	2,2	120								

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NODE	ND-EARTH						

13C Remarks

B1a/BR17 Beam designation	401	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	2,2
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B2bis.a Transmit only when visible from notified service area ☐ Y B2bis.b Min. Elev. Angle

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
ND-SPACE						

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	7	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station ET C3a Assigned freq. band

C4b Nature of service CP C6a Polarization type CR

C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area XAA

C11a3 Service area diagram

A2b Period of valid. 25 A3a Op. agency 999 A3b Adm. resp. M BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit	C1b Upper limit		
401	MHz	402	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f1 E.i.r.p. on the beam axis
1 500KF1D--	5	-52	-3		-60		-13		

C7b Carrier frequency of the emissions (500KF1D--)															
401,25	MHz	401,5	MHz	401,75	MHz										

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network	LS-4	A1f1 Notif. adm.	D	A1f3 Inter. sat. org.		BR1 Date of receipt	11.12.2019	BR20 BR IFIC no.
BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		401 E

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth	C10d6 Noise temp.		
NODE	T			1 TT CP	2,2	120	500		

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
NODE	ND-EARTH					

13C Remarks

B1a/BR17 Beam designation	460D	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	2,2
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B2bis.a Transmit only when visible from notified service area

Y

B2bis.b Min. Elev. Angle

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
ND-SPACE					

List of orbital planes

ALL

B4a3a1 Angle alpha

B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	6	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station

EW

C3a Assigned freq. band

C4b Nature of service

CP

C6a Polarization type

CR

C6b Polarization angle

C8d1 Max. tot. peak pwr.

C8d2 Contiguous bandwidth

C11a2 Service area

XAA

C11a3 Service area diagram

A2b Period of valid.

25

A3a Op. agency

999

A3b Adm. resp.

M

BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit	C1b Upper limit		
460	MHz	470	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f1 E.i.r.p. on the beam axis
1 500KF1D--	5	-52	-3		-60		-13		

C7b Carrier frequency of the emissions (500KF1D--)															
462	MHz	465	MHz	469	MHz										

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth	C10d6 Noise temp.		
NODE	T			1 UW CP	2,2	120	500		

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network LS-4		A1f1 Notif. adm. D	A1f3 Inter. sat. org.		BR1 Date of receipt 11.12.2019		BR20 BR IFIC no.	
BR6a/BR6b Id. no. 1			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.		460D E	

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
NODE	ND-EARTH					

13C Remarks

B1a/BR17 Beam designation	868D	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	2
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B2bis.a Transmit only when visible from notified service area

☐ Y

B2bis.b Min. Elev. Angle

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
ND-SPACE					

List of orbital planes

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48

B4a3a1 Angle alpha

B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	3	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	Y
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BR14 Special Section

C4a Class of station

☐ EI ☐ EW

C3a Assigned freq. band

C4b Nature of service

☐ CP ☐ CP

C6a Polarization type

☐ CR

C6b Polarization angle

C8d1 Max. tot. peak pwr.

C8d2 Contiguous bandwidth

C11a2 Service area

 XAA

C11a3 Service area diagram

A2b Period of valid.

 25

A3a Op. agency

 999

A3b Adm. resp.

 M

BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range		
C1a Lower limit	C1b Upper limit	
862 MHz	870 MHz	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f1 E.i.r.p. on the beam axis
1 500KF1D--	0	-57	-3		-60		-16		

C7b Carrier frequency of the emissions (500KF1D--)

862,25	MHz	862,95	MHz	863,65	MHz	864,35	MHz	865,05	MHz	865,75	MHz	866,45	MHz	867,15	MHz
862,35	MHz	863,05	MHz	863,75	MHz	864,45	MHz	865,15	MHz	865,85	MHz	866,55	MHz	867,25	MHz
862,45	MHz	863,15	MHz	863,85	MHz	864,55	MHz	865,25	MHz	865,95	MHz	866,65	MHz	867,35	MHz
862,55	MHz	863,25	MHz	863,95	MHz	864,65	MHz	865,35	MHz	866,05	MHz	866,75	MHz	867,45	MHz
862,65	MHz	863,35	MHz	864,05	MHz	864,75	MHz	865,45	MHz	866,15	MHz	866,85	MHz	867,55	MHz
862,75	MHz	863,45	MHz	864,15	MHz	864,85	MHz	865,55	MHz	866,25	MHz	866,95	MHz	867,65	MHz
862,85	MHz	863,55	MHz	864,25	MHz	864,95	MHz	865,65	MHz	866,35	MHz	867,05	MHz	867,75	MHz

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth	C10d6 Noise temp.		
NODE	T			1 UA CP	2,2	120	500		

[illegible]

B2bis.a Transmit only when visible from notified service area		B2bis.b Min. Elev. Angle	
B3c1 Co-polar antenna pattern			
Co-polar ref. pattern	Coef. A	Coef. B	Co-polar rad. diag.
ND-SPACE			

B4a3a1 Angle alpha *B4a3a2* Angle beta
BR92 Attach. for missing angle alpha/beta

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
902	MHz	928	MHz

C7b Carrier frequency of the emissions (500KF1D--)															
902,25	MHz	905,45	MHz	908,65	MHz	911,85	MHz	915,05	MHz	918,25	MHz	921,45	MHz	924,65	MHz
902,35	MHz	905,55	MHz	908,75	MHz	911,95	MHz	915,15	MHz	918,35	MHz	921,55	MHz	924,75	MHz
902,45	MHz	905,65	MHz	908,85	MHz	912,05	MHz	915,25	MHz	918,45	MHz	921,65	MHz	924,85	MHz
902,55	MHz	905,75	MHz	908,95	MHz	912,15	MHz	915,35	MHz	918,55	MHz	921,75	MHz	924,95	MHz
902,65	MHz	905,85	MHz	909,05	MHz	912,25	MHz	915,45	MHz	918,65	MHz	921,85	MHz	925,05	MHz
902,75	MHz	905,95	MHz	909,15	MHz	912,35	MHz	915,55	MHz	918,75	MHz	921,95	MHz	925,15	MHz
902,85	MHz	906,05	MHz	909,25	MHz	912,45	MHz	915,65	MHz	918,85	MHz	922,05	MHz	925,25	MHz
902,95	MHz	906,15	MHz	909,35	MHz	912,55	MHz	915,75	MHz	918,95	MHz	922,15	MHz	925,35	MHz
903,05	MHz	906,25	MHz	909,45	MHz	912,65	MHz	915,85	MHz	919,05	MHz	922,25	MHz	925,45	MHz
903,15	MHz	906,35	MHz	909,55	MHz	912,75	MHz	915,95	MHz	919,15	MHz	922,35	MHz	925,55	MHz
903,25	MHz	906,45	MHz	909,65	MHz	912,85	MHz	916,05	MHz	919,25	MHz	922,45	MHz	925,65	MHz

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09	DB: LS-4.MDB		Plan Id.:	Notice type: NONGEO				
A	A1a Sat. Network	LS-4	A1f1 Notif. adm.	D	A1f3 Inter. sat. org.		BR1 Date of receipt	11.12.2019	BR20 BR IFIC no.	
BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		915D	E

903,35	MHz	906,55	MHz	909,75	MHz	912,95	MHz	916,15	MHz	919,35	MHz	922,55	MHz	925,75	MHz
903,45	MHz	906,65	MHz	909,85	MHz	913,05	MHz	916,25	MHz	919,45	MHz	922,65	MHz	925,85	MHz
903,55	MHz	906,75	MHz	909,95	MHz	913,15	MHz	916,35	MHz	919,55	MHz	922,75	MHz	925,95	MHz
903,65	MHz	906,85	MHz	910,05	MHz	913,25	MHz	916,45	MHz	919,65	MHz	922,85	MHz	926,05	MHz
903,75	MHz	906,95	MHz	910,15	MHz	913,35	MHz	916,55	MHz	919,75	MHz	922,95	MHz	926,15	MHz
903,85	MHz	907,05	MHz	910,25	MHz	913,45	MHz	916,65	MHz	919,85	MHz	923,05	MHz	926,25	MHz
903,95	MHz	907,15	MHz	910,35	MHz	913,55	MHz	916,75	MHz	919,95	MHz	923,15	MHz	926,35	MHz
904,05	MHz	907,25	MHz	910,45	MHz	913,65	MHz	916,85	MHz	920,05	MHz	923,25	MHz	926,45	MHz
904,15	MHz	907,35	MHz	910,55	MHz	913,75	MHz	916,95	MHz	920,15	MHz	923,35	MHz	926,55	MHz
904,25	MHz	907,45	MHz	910,65	MHz	913,85	MHz	917,05	MHz	920,25	MHz	923,45	MHz	926,65	MHz
904,35	MHz	907,55	MHz	910,75	MHz	913,95	MHz	917,15	MHz	920,35	MHz	923,55	MHz	926,75	MHz
904,45	MHz	907,65	MHz	910,85	MHz	914,05	MHz	917,25	MHz	920,45	MHz	923,65	MHz	926,85	MHz
904,55	MHz	907,75	MHz	910,95	MHz	914,15	MHz	917,35	MHz	920,55	MHz	923,75	MHz	926,95	MHz
904,65	MHz	907,85	MHz	911,05	MHz	914,25	MHz	917,45	MHz	920,65	MHz	923,85	MHz	927,05	MHz
904,75	MHz	907,95	MHz	911,15	MHz	914,35	MHz	917,55	MHz	920,75	MHz	923,95	MHz	927,15	MHz
904,85	MHz	908,05	MHz	911,25	MHz	914,45	MHz	917,65	MHz	920,85	MHz	924,05	MHz	927,25	MHz
904,95	MHz	908,15	MHz	911,35	MHz	914,55	MHz	917,75	MHz	920,95	MHz	924,15	MHz	927,35	MHz
905,05	MHz	908,25	MHz	911,45	MHz	914,65	MHz	917,85	MHz	921,05	MHz	924,25	MHz	927,45	MHz
905,15	MHz	908,35	MHz	911,55	MHz	914,75	MHz	917,95	MHz	921,15	MHz	924,35	MHz	927,55	MHz
905,25	MHz	908,45	MHz	911,65	MHz	914,85	MHz	918,05	MHz	921,25	MHz	924,45	MHz	927,65	MHz
905,35	MHz	908,55	MHz	911,75	MHz	914,95	MHz	918,15	MHz	921,35	MHz	924,55	MHz	927,75	MHz

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwidth	C10d6 Noise temp.		
NODE	T			1 2 UA CP	2,2	120	500		

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NODE	ND-EARTH						

13C Remarks

B1a/BR17 Beam designation	FTS	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	2,2
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B2bis.a Transmit only when visible from notified service area ☐ Y B2bis.b Min. Elev. Angle

Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
ND-SPACE					

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	5	BR1 Date of receipt	11.12.2019	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station EE EY C3a Assigned freq. band

C4b Nature of service CP CP C6a Polarization type CR

C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network	LS-4	A1f1 Notif. adm.	D	A1f3 Inter. sat. org.		BR1 Date of receipt	11.12.2019	BR20 BR IFIC no.
BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		
							FTS		E

C11a2 Service area

C11a3 Service area diagram

A2b Period of valid. A3a Op. agency A3b Adm. resp. BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
400,05	MHz	400,15	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f1 E.i.r.p. on the beam axis
1 50K0F1D--	5	-42	-3		-50		-16		

C7b Carrier frequency of the emissions (50K0F1D--)											
400,1	MHz										

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.		C10d3 Max. iso. gain	C10d4 Bmwidth	C10d6 Noise temp.		
NODE	T				1 UE	CP	2,2	120	500		
					2 UY	CP					

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NODE	ND-EARTH						

13C Remarks

C9 Modulation characteristics	C7a Designation of emission 350KF1D--
C9a1 Type of modulation	
C9a2a Lowest frequency	
C9a2b Highest frequency	
C9a2c Frequency deviation	
C9a3a Freq. deviation of the pre-emphasized signal	
C9a3b Pre-emphasis characteristics	
C9a3c Type of multiplexing	
C9a4a Bit rate	
C9a4b Number of phases	
C9a5a Modulating signal attached (see attch. no.)	
C9a5b Amplitude modulation	
C9a6a Peak-to-peak freq. dev.	
C9a6b Sweep frequency	
C9a6c Energy dispersal waveform	
C9a7 Type of energy dispersal	
C9a8 Other types of modulation (see attch. no.)	
C9a9 TV standard	
BR7a Group id.	1

E_TSUM Requested by: BUSCHER		Date: 16.12.2019 00:28:09		DB: LS-4.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network	LS-4	A1f1 Notif. adm.	D	A1f3 Inter. sat. org.		BR1 Date of receipt	11.12.2019	BR20 BR IFIC no.
BR6a/BR6b Id. no.		1	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		FTS E

BR22 Administration remarks

BR23 Radiocommunication Bureau comments