

E_TSUM Requested by: RENNER.P		Date: 09.09.2022 11:54:55 AM		DB: TYVAK-0261.MDB		Plan Id.:		Notice type: NONGEO	
A	A1a Sat. Network	TYVAK-0261	A1f1 Notif. adm.	USA	A1f3 Inter. sat. org.		BR1 Date of receipt	19.05.2022	BR20 BR IFIC no.
BR6a/BR6b Id. no.		3	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)	BR62 Expiry date for bringing into use	C4a Class of station
SBANDRX	R		5		2049.875 - 2050.125		ET
UHFRX	R		3		401.0656 - 401.0944		ED
UHFRX2	R		13		401.5656 - 401.5944		ED
PCOMMTX	E		6		2491 - 2493		ED
RTTX	E		10		5797.91 - 5802.91		ED
UHFTX	E		2		400.8256 - 400.8544		ER
UHFTX2	E		15		401.3256 - 401.3544		ER
XBANDTX	E		1		8372.5 - 8387.5		ET
XBANDTX2	E		14		8312.5 - 8327.5		ET
XLTX1	E		12		22601.23 - 22603.23		ED
XLTX2	E		11		24536.6 - 24538.6		ED

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO

A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. SBANDRX R

A1f2 Submitted on behalf

A1g Short Mission Duration Res 32 N

A4b1 No. of orbital planes 1 A4b2 Ref. body T

A4b1a Constellation N A4b1b Configuration type A4b1c Number of sub-sets mutually exclusive A4b1d Attachment no.

A4b3a No. of space stations simult. trans. on Northern Hemisphere 2 A4b3b No. of space stations simult. trans. on Southern Hemisphere 2

Orbital plane id. no.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4e Perigee	A4b4f Min. altitude	A4b4i Arg. of perigee	A4b4j Long. asc. node	A4b4m,n,o Sun synchronous		
									Y/N	Node reference time	Node local time
1	97.7	2	0-01:36	550e0	550e0	550e0	0	0	Y	A	06:00:00

Orbital plane no.	Satellite no.	A4b4h Initial phase angle	A4b4k Date	A4b4l Time	B4a Orbit link / List of beams
1	1	0	10.10.2022	06:00:00	PCOMMTX (E)
1	2	0	10.10.2022	06:00:00	

B1a/BR17 Beam designation SBANDRX B1b Steerable B2 Emi-Rcp R B3a1 Max. co-polar gain 5.5

B2a1 Transmit only when visible from notified service area Y B2a2 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. 5 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

C4a Class of station ET C3a Assigned freq. band C5a Noise temperature 303

C4b Nature of service CR C6a Polarization type CL C6b Polarization angle

C11a2 Service area XAA C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range		
C1a Lower limit	C1b Upper limit	
2049.875 MHz	2050.125	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attc.	C8c3 Min. pwr dens.	C8c4 Attc.	C8e1 C/N ratio	C8e2 Attc.	C8f2 E.i.r.p. on the beam axis
1 250KG1D--	5.4	-48.5	0		-54		30		

C7b Carrier frequency of the emissions (250KG1D--)									
2050	MHz								

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.			C10d3 Max. iso. gain	C10d4 Bmwdth					
TER05	S	054E32	55 24N15 01	UAE	1	TT	CR	34	3.35					
TER06	S	122W39	50 38N16 29	USA	1	TT	CR	34	3.35					
TER07	S	138E50	56 32S57 43	AUS	1	TT	CR	34	3.35					
KSAT01	S	021E49	27 39N04 27	GRC	1	TT	CR	34	3.35					
KSAT02	S	168E22	49 45S31 44	NZL	1	TT	CR	34	3.35					
KSAT03	S	027E41	06 25S38 24	AFS	1	TT	CR	34	3.35					
KSAT04	S	118W08	48 33N49 28	USA	1	TT	CR	34	3.35					
KSAT05	S	057E33	08 20S20 54	MAU	1	TT	CR	34	3.35					
KSAT06	S	004W09	46 38N40 21	E	1	TT	CR	34	3.35					
KSAT07	S	070W52	14 52S56 06	CHL	1	TT	CR	34	3.35					
KSAT08	S	015E24	26 78N13 47	NOR	1	TT	CR	34	3.35					
KSAT09	S	002E31	30 72S00 07	ATA	1	TT	CR	34	3.35					

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.
TER05	REC-580-6						
TER06	REC-580-6						
TER07	REC-580-6						
KSAT01	REC-580-6						
KSAT02	REC-580-6						
KSAT03	REC-580-6						
KSAT04	REC-580-6						
KSAT05	REC-580-6						
KSAT06	REC-580-6						
KSAT07	REC-580-6						
KSAT08	REC-580-6						
KSAT09	REC-580-6						

13C Remarks

B1a/BR17 Beam designation UHFRR B1b Steerable B2 Emi-Rcp R B3a1 Max. co-polar gain 0

B2a1 Transmit only when visible from notified service area Y B2a2 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. 3 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

C4a Class of station ED C3a Assigned freq. band C5a Noise temperature 303

C4b Nature of service CR C6a Polarization type CL C6b Polarization angle

C11a2 Service area XAA C11a3 Service area diagram

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A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. UHFRX R

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
401.0656 MHz	401.0944 MHz

C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2	C8f2
Design. of emission	Max. peak pwr	Max. pwr dens.	Min. peak pwr	Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.	E.i.r.p. on the beam axis
1 28K8G1D--	23	-21.6	13		-33.5		30		

C7b Carrier frequency of the emissions (28K8G1D--)									
401.08	MHz								

C10b1	C10b2	C10c1		C10c2	C10d1/C10d2		C10d3	C10d4					
Assoc. earth station id.	Type	Geographical coord.		Ctry	Cls. / Nat.		Max. iso. gain	Bmwdth					
TER01	S	117W12 03	32N53 49	USA	1	TD CR	20.2	16.5					
TER02	S	147W41 10	64N51 18	USA	1	TD CR	20.2	16.5					
TER03	S	014E49 33	41N06 54	I	1	TD CR	20.2	16.5					
TER04	S	018E29 09	69N03 14	NOR	1	TD CR	20.2	16.5					

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.
TER01	REC-580-6						
TER02	REC-580-6						
TER03	REC-580-6						
TER04	REC-580-6						

13C Remarks

B1a/BR17 Beam designation UHFRX2 B1b Steerable B2 Emi-Rcp R B3a1 Max. co-polar gain 0

B2a1 Transmit only when visible from notified service area Y B2a2 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. 13 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

C4a Class of station ED C3a Assigned freq. band C5a Noise temperature 303

C4b Nature of service CR C6a Polarization type CL C6b Polarization angle

C11a2 Service area XAA C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

E_TSUM Requested by: RENNER.P		Date: 09.09.2022 11:54:55 AM	DB: TYVAK-0261.MDB		Plan Id.:	Notice type: NONGEO			
A	A1a Sat. Network	TYVAK-0261	A1f1 Notif. adm.	USA	A1f3 Inter. sat. org.	BR1 Date of receipt	19.05.2022	BR20 BR IFIC no.	
BR6a/BR6b Id. no.		3	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.		UHFRX2	R

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
401.5656 MHz	401.5944 MHz

C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2	C8f2
Design. of emission	Max. peak pwr	Max. pwr dens.	Min. peak pwr	Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.	E.i.r.p. on the beam axis
1 28K8G1D--	23	-21.6	13		-33.5		30		

C7b Carrier frequency of the emissions (28K8G1D--)									
401.58	MHz								

C10b1	C10b2	C10c1		C10c2	C10d1/C10d2		C10d3	C10d4						
Assoc. earth station id.	Type	Geographical coord.		Ctry	Cls. / Nat.		Max. iso. gain	Bmwidth						
TER01	S	117W12 03	32N53 49	USA	1	TD CR	20.2	16.5						
TER02	S	147W41 10	64N51 18	USA	1	TD CR	20.2	16.5						
TER03	S	014E49 33	41N06 54	I	1	TD CR	20.2	16.5						
TER04	S	018E29 09	69N03 14	NOR	1	TD CR	20.2	16.5						

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.
TER01	REC-580-6						
TER02	REC-580-6						
TER03	REC-580-6						
TER04	REC-580-6						

13C Remarks

B1a/BR17 Beam designation	PCOMMTX	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	2.8
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B2a1 Transmit only when visible from notified service area  Y  B2a2 Min. Elev. Angle  10

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

List of orbital planes  
1

B4a3a1 Angle alpha  B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	6	BR1 Date of receipt	19.05.2022	C2c RR No. 4.4	<input type="checkbox"/> Y <input type="checkbox"/>
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BR14 Special Section

C4a Class of station  ED  C3a Assigned freq. band

C4b Nature of service  CV  C6a Polarization type  CL

C6b Polarization angle

C8d1 Max. tot. peak pwr.  C8d2 Contiguous bandwidth

C11a2 Service area  USA  C11a3 Service area diagram

A2b Period of valid.  5  A3a Op. agency  560  A3b Adm. resp.  A  BR16 Value of type C8b

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO

A 1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. PCOMM TX E

BR96 Start date for 9.1/9.1A  
 BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
2491	MHz	2493	MHz

C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2	C8f1
Design. of emission	Max. peak pwr	Max. pwr dens.	Min. peak pwr	Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.	E.i.r.p. on the beam axis
1 2M00F3D--	3	-61.5	-3		-67.5		30		

C7b Carrier frequency of the emissions (2M00F3D--)									
2492	MHz								

C10b1	C10b2	C10c1		C10c2	C10d1/C10d2		C10d3	C10d4	C10d6
Assoc. earth station id.	Type	Geographical coord.		Ctry	Cls. / Nat.		Max. iso. gain	Bmwidth	Noise temp.
LM1	S	105W06 55	39N30 46	USA	1 TD	CV	5.8	75	150
LM2	S	084W46 21	44N38 04	USA	1 TD	CV	5.8	75	150

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.
LM1	REC-580-6						
LM2	REC-580-6						

13C Remarks

B1a/BR17 Beam designation RTX B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 5

B2a1 Transmit only when visible from notified service area Y B2a2 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. 10 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4

BR14 Special Section

C4a Class of station ED C3a Assigned freq. band

C4b Nature of service CV C6a Polarization type CR

C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO  
 A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.  
 BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. RTTX E

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
5797.91 MHz	5802.91 MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.	C8f1 E.i.r.p. on the beam axis
1 5M00G1D--	-10	-73	-10		-73		30		-5

C7b Carrier frequency of the emissions (5M00G1D--)									
5800.41	MHz								

C10a1a Assoc. space station id.	C10a2 Type	C10a3 Nominal longitude	C10a4a Beam designation
TYVAK-0261	N		RTTX
TYVAK-0262	N		RTTX

13C Remarks

B1a/BR17 Beam designation UHFTX B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 0

B2a1 Transmit only when visible from notified service area Y B2a2 Min. Elev. Angle 10

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. 2 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

C4a Class of station ER C3a Assigned freq. band

C4b Nature of service CR C6a Polarization type CL

C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area XAA C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
400.8256 MHz	400.8544 MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.	C8f1 E.i.r.p. on the beam axis
1 28K8G1D--	0.4	-44.2	-3		-47.6		30		

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BR6a/BR6b Id. no.		3	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.		UHFTX	E

C7b Carrier frequency of the emissions (28K8G1D--)										
400.84	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.		
TER01	S	117W12 03	32N53 49	USA	1	TR CR	20.2	16.5	150		
TER02	S	147W41 10	64N51 18	USA	1	TR CR	20.2	16.5	150		
TER03	S	014E49 33	41N06 54	I	1	TR CR	20.2	16.5	150		
TER04	S	018E29 09	69N03 14	NOR	1	TR CR	20.2	16.5	150		

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.
TER01	REC-580-6						
TER02	REC-580-6						
TER03	REC-580-6						
TER04	REC-580-6						

13C Remarks

B1a/BR17 Beam designation	UHFTX2	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	0
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B2a1 Transmit only when visible from notified service area  Y B2a2 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.	15	BR1 Date of receipt	19.05.2022	C2c RR No. 4.4	<input checked="" type="checkbox"/> Y
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BR14 Special Section

C4a Class of station  C3a Assigned freq. band

C4b Nature of service  C6a Polarization type

C6b Polarization angle

C8d1 Max. tot. peak pwr.  C8d2 Contiguous bandwidth

C11a2 Service area

C11a3 Service area diagram

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

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
401.3256 MHz	401.3544 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 28K8G1D--	0.4	-44.2	-3		-47.6		30		



E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO  
 A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.  
 BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. UHFTX2 E

C7b Carrier frequency of the emissions (28K8G1D--)  
 401.34 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.
TER01	S	117W12 03	32N53 49	USA	1	TR	CR	20.2	16.5	150
TER02	S	147W41 10	64N51 18	USA	1	TR	CR	20.2	16.5	150
TER03	S	014E49 33	41N06 54	I	1	TR	CR	20.2	16.5	150
TER04	S	018E29 09	69N03 14	NOR	1	TR	CR	20.2	16.5	150

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.
TER01	REC-580-6						
TER02	REC-580-6						
TER03	REC-580-6						
TER04	REC-580-6						

13C Remarks

B1a/BR17 Beam designation XBANDTX B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 17.7

B2a1 Transmit only when visible from notified service area Y B2a2 Min. Elev. Angle 10

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
APSREC409V01						

List of orbital planes

ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id. 1 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

C4a Class of station ET C3a Assigned freq. band

C4b Nature of service CR C6a Polarization type CL C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area XAA C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
8372.5	MHz	8387.5	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attn.	C8c3 Min. pwr dens.	C8c4 Attn.	C8e1 C/N ratio	C8e2 Attn.	C8f1 E.i.r.p. on the beam axis
1 15M0G1D--	4	-43	-3		-50		30		

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO

A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. XBANDTX E

C7b Carrier frequency of the emissions (15M0G1D--)

8380 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.
TER05	S	054E32 55	24N15 01	UAE	1	TT	CR	34	3.35	150
TER06	S	122W39 50	38N16 29	USA	1	TT	CR	34	3.35	150
TER07	S	138E50 56	32S57 43	AUS	1	TT	CR	34	3.35	150
KSAT01	S	021E49 27	39N04 27	GRC	1	TT	CR	34	3.35	150
KSAT02	S	168E22 49	45S31 44	NZL	1	TT	CR	34	3.35	150
KSAT03	S	027E41 06	25S38 24	AFS	1	TT	CR	34	3.35	150
KSAT04	S	118W08 48	33N49 28	USA	1	TT	CR	34	3.35	150
KSAT05	S	057E33 08	20S20 54	MAU	1	TT	CR	34	3.35	150
KSAT06	S	004W09 46	38N40 21	E	1	TT	CR	34	3.35	150
KSAT07	S	070W52 14	52S56 06	CHL	1	TT	CR	34	3.35	150
KSAT08	S	015E24 26	78N13 47	NOR	1	TT	CR	34	3.35	150
KSAT09	S	002E31 30	72S00 07	ATA	1	TT	CR	34	3.35	150

C10b1 Assoc. earth station id.	C10d5a Co-polar antenna pattern						
	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TER05	REC-580-6						
TER06	REC-580-6						
TER07	REC-580-6						
KSAT01	REC-580-6						
KSAT02	REC-580-6						
KSAT03	REC-580-6						
KSAT04	REC-580-6						
KSAT05	REC-580-6						
KSAT06	REC-580-6						
KSAT07	REC-580-6						
KSAT08	REC-580-6						
KSAT09	REC-580-6						

13C Remarks

B1a/BR17 Beam designation XBANDTX2 B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 17.7

B2a1 Transmit only when visible from notified service area Y B2a2 Min. Elev. Angle 10

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
APSREC409V01						

List of orbital planes  
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id. 14 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4 Y

BR14 Special Section

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO

A 1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. XBANDTX2 E

C4a Class of station ET C3a Assigned freq. band

C4b Nature of service CR C6a Polarization type CL C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area XAA C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
8312.5 MHz	8327.5 MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.	C8f1 E.i.r.p. on the beam axis
1 15M0G1D--	4	-43	-3		-50		30		

C7b Carrier frequency of the emissions (15M0G1D--)									
8320	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.
TER05	S	054E32	55 24N15 01	UAE	1	TT CR	34	3.35	150
TER06	S	122W39	50 38N16 29	USA	1	TT CR	34	3.35	150
TER07	S	138E50	56 32S57 43	AUS	1	TT CR	34	3.35	150
KSAT01	S	021E49	27 39N04 27	GRC	1	TT CR	34	3.35	150
KSAT02	S	168E22	49 45S31 44	NZL	1	TT CR	34	3.35	150
KSAT03	S	027E41	06 25S38 24	AFS	1	TT CR	34	3.35	150
KSAT04	S	118W08	48 33N49 28	USA	1	TT CR	34	3.35	150
KSAT05	S	057E33	08 20S20 54	MAU	1	TT CR	34	3.35	150
KSAT06	S	004W09	46 38N40 21	E	1	TT CR	34	3.35	150
KSAT07	S	070W52	14 52S56 06	CHL	1	TT CR	34	3.35	150
KSAT08	S	015E24	26 78N13 47	NOR	1	TT CR	34	3.35	150
KSAT09	S	002E31	30 72S00 07	ATA	1	TT CR	34	3.35	150

C10b1 Assoc. earth station id.	Co-polar ref. pattern	C10d5a Co-polar antenna pattern					Phi1	Co-polar rad. diag.
		Coef. A	Coef. B	Coef. C	Coef. D			
TER05	REC-580-6							
TER06	REC-580-6							
TER07	REC-580-6							
KSAT01	REC-580-6							
KSAT02	REC-580-6							
KSAT03	REC-580-6							
KSAT04	REC-580-6							
KSAT05	REC-580-6							
KSAT06	REC-580-6							
KSAT07	REC-580-6							
KSAT08	REC-580-6							
KSAT09	REC-580-6							

13C Remarks

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO

A 1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.

BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. XLTX1 E

B1a/BR17 Beam designation XLTX1 B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 11.1

B2a1 Transmit only when visible from notified service area Y B2a2 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. 12 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4

BR14 Special Section

C4a Class of station ED C3a Assigned freq. band

C4b Nature of service CV C6a Polarization type CR C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area C11a3 Service area diagram

A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
22.60123 GHz	22.60323 GHz

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 2M00F3D--	-2	-65	-2		-65		30		-2

C7b Carrier frequency of the emissions (2M00F3D--)									
22602.23	MHz								

C10a1a Assoc. space station id.	C10a2 Type	C10a3 Nominal longitude	C10a4a Beam designation
TYVAK-0261	N		XLTX1
TYVAK-0262	N		XLTX1

13C Remarks

B1a/BR17 Beam designation XLTX2 B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 11.1

B2a1 Transmit only when visible from notified service area Y B2a2 Min. Elev. Angle

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

E\_TSUM Requested by: RENNER.P Date: 09.09.2022 11:54:55 AM DB: TYVAK-0261.MDB Plan Id.: Notice type: NONGEO  
 A A1a Sat. Network TYVAK-0261 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 19.05.2022 BR20 BR IFIC no.  
 BR6a/BR6b Id. no. 3 BR3a Provision reference 9.1/IA BR2 Adm. serial no. XLTX2 E

List of orbital planes  
 ALL

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

BR7a/BR7b Group id. 11 BR1 Date of receipt 19.05.2022 C2c RR No. 4.4

BR14 Special Section  
 C4a Class of station ED C3a Assigned freq. band  
 C4b Nature of service CV C6a Polarization type CR C6b Polarization angle  
 C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth  
 C11a2 Service area C11a3 Service area diagram  
 A2b Period of valid. 5 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b  
 BR96 Start date for 9.1/9.1A  
 BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
24.5366 GHz	24.5386 GHz

C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2	C8f1
Design. of emission	Max. peak pwr	Max. pwr dens.	Min. peak pwr	Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.	E.i.r.p. on the beam axis
1 2M00F3D--	-2	-65	-2		-65		30		-2

C7b Carrier frequency of the emissions (2M00F3D--)									
24537.6	MHz								

C10a1a	C10a2	C10a3	C10a4a
Assoc. space station id.	Type	Nominal longitude	Beam designation
TYVAK-0261	N		XLTX2
TYVAK-0262	N		XLTX2

13C Remarks

BR22 Administration remarks  
 BR23 Radiocommunication Bureau comments