



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS  
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	<b>INS-2</b>	PARTIE PART PARTE	<b>II-S</b>
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	<b>2976 / 26.07.2022</b>
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	<b>IND</b>	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	<b>NGSO</b>
		NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	<b>122500062</b>
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			<b>07.04.2022</b>

Assignations de fréquence inscrites dans le Fichier de référence au titre de		Frequency assignments recorded in the Master Register under		Asignaciones de frecuencia inscritis en el Registro con arreglo al	
<b>X</b>	Article 11 du Règlement des radiocommunications	<b>X</b>	Article 11 of the Radio Regulations	<b>X</b>	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la <a href="#">Préface</a> .	For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the <a href="#">Preface</a> .	Para más detalles sobre las disposiciones reglamentarias y la explicación de los códigos o símbolos utilizados en esta publicación, sírvase consultar el <a href="#">Prefacio</a> .
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国际电信联盟  
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ  
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات  
مكتب الاتصالات الراديوية

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卫星网络 СПУТНИКОВАЯ СЕТЬ الشبكة الساتلية	INS-2	部分 ЧАСТЬ الجزء	II-S
地球站 ЗЕМНАЯ СТАНЦИЯ المحطة الأرضية	---	无线电通信局国际频率信息通报 / 日期 ИФИК БР / ДАТА النشرة الإعلامية الدولية للترددات / رقمها وتاريخها	2976 / 26.07.2022
负责主管部门 ОТВЕТСТВЕННАЯ АДМ. الإدارة المسؤولة	IND	标称经度 НОМИНАЛЬНАЯ ДОЛГОТА خط الطول الاسمي	NGSO
		识别号 ИДЕНТИФИКАЦИОННЫЙ НОМЕР رقم تعرف الهوية	122500062
通信局收到资料的日期 / ДАТА ПОЛУЧЕНИЯ ИНФОРМАЦИИ БЮРО / معلومات استلمها المكتب في			07.04.2022

根据以下条款登记在《国际频率登记总表》中的频率指配		Частотные присвоения, внесенные в Справочный регистр согласно		تخصيصات تردد مسجلة في السجل الأساسي بموجب	
X	《无线电规则》第11条	X	Статья 11 Регламента радиосвязи	المادة 11 من لوائح الراديو	X
	附录30和/或30A第5条		Статья 5 Приложений 30 и/или 30A	المادة 5 من التذييلين 30 و/أو 30A	
	附录30B第8条		Статья 8 Приложения 30B	المادة 8 من التذييل 30B	

欲更详细了解本公报资料中使用的规则性条款和代码或符号的说明，请查阅 <a href="#">前言</a> 。	Более подробная информация о регламентарных положениях и разъяснение кодов либо обозначений, используемых в настоящей публикации, содержится в <a href="#">Предисловии</a> .	يرجى الرجوع إلى <a href="#">المقدمة</a> للاطلاع على مزيد من التفاصيل الخاصة بالأحكام التنظيمية وتفسير الرموز والمعطيات المستعملة في هذا القسم.
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<p>On trouvera la description des éléments de données utilisés dans les publications dans le document:</p> <ul style="list-style-type: none"> <li>- <a href="#">ItemsDescription_F.pdf</a></li> <li>- <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></li> </ul>	<p>The description of the data items used in the publications can be found in the document:</p> <ul style="list-style-type: none"> <li>- <a href="#">ItemsDescription_E.pdf</a></li> <li>- <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></li> </ul>	<p>La descripción de los datos empleados en las publicaciones figura en el documento:</p> <ul style="list-style-type: none"> <li>- <a href="#">ItemsDescription_S.pdf</a></li> <li>- <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></li> </ul>
<p>出版物中使用的数据项说明，见文件:</p> <ul style="list-style-type: none"> <li>- <a href="#">ItemsDescription_C.pdf</a></li> <li>- <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></li> </ul>	<p>Описание элементов данных, используемых в данной публикации, содержится в документе:</p> <ul style="list-style-type: none"> <li>- <a href="#">ItemsDescription_R.pdf</a></li> <li>- <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></li> </ul>	<p>يمكن الاطلاع على وصف عناصر المعطيات المستعملة في المنشورات في الوثيقة:  <a href="#">ItemsDescription_A.pdf</a>  <a href="http://www.itu.int/ITU-R/space/brific/legend/">http://www.itu.int/ITU-R/space/brific/legend/</a></p>

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-S الجزء										
A	A1a Sat. Network	INS-2	A1f1 Notif. adm.	IND	A1f3 Inter. sat. org.		BR1 Date of receipt	07.04.2022	BR20/BR21 BR IFIC no./part	2976/2
	BR6a/BR6b Id. no.	122500062	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.				

**Il est prévu d'exploiter ce système à satellites non OSG dans le cadre d'une mission de courte durée conformément à la Résolution 32 (CMR-19)**

**This non-GSO satellite system is planned to be operated as short duration mission in accordance with Resolution 32 (WRC-19)**

**Está previsto que este sistema de satélites no OSG opere como misión de corta duración en los términos de la Resolución 32 (CMR-19)**

此non-GSO卫星系统计划按照第32号决议(WRC-19)进行短期任务操作

**Данная спутниковая система НГСО планируется к использованию для непродолжительных полетов в соответствии с Резолюцией 32 (ВКР-19)**

من المخطط تشغيل هذا النظام الساتلي غير المستقر بالنسبة إلى الأرض كمهمة قصيرة المدة وفقاً للقرار 32 (WRC-19)

Modification des caractéristiques techniques

Veillez noter que les caractéristiques techniques

	ont été modifiées
<b>X</b>	n'ont pas été modifiées

depuis la publication de la fiche de notification dans la Partie I-S de la BRIFIC 2973 / 14.06.2022.

Changes in Technical Characteristics

Please note that the technical characteristics

	have been modified
<b>X</b>	have not been modified

since the publication of the notice in Part I-S of BRIFIC 2973 / 14.06.2022.

Cambios en las características técnicas

Sírvase tomar nota de que las características técnicas

	se han modificado
<b>X</b>	no se han modificado

desde la publicación de la notificación en la Parte I-S de la BRIFIC 2973 / 14.06.2022.

技术特性的变化

请注意，自BRIFIC 2973 / 14.06.2022 I-S 部分中的通知公布以来，技术特性

	已经修改
<b>X</b>	未经修改

Изменения в технических характеристиках

Просьба учесть, что технические характеристики

	были изменены
<b>X</b>	не были изменены

после публикации заявки в Части I-S BRIFIC 2973 / 14.06.2022.

تغييرات في الخصائص التقنية

يرجى ملاحظة أن الخصائص التقنية

	خضعت للتعديل
<b>X</b>	لم تخضع للتعديل

منذ نشر معلومات بطاقة التبليغ في الجزء I-S من النشرة الإعلامية الدولية للترددات : 14.06.2022 / 2973BRIFIC .

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-S الجزء													
A	A1a Sat. Network	INS-2	A1f1 Notif. adm.	IND	A1f3 Inter. sat. org.		BR1 Date of receipt	07.04.2022	BR20/BR21	BR IFIC no./part	2976/2		
	BR6a/BR6b Id. no.	122500062	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.							

**Résumé / Summary / Resumen / 綜述 / Резюме / خلاصة**

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)	BR62 Expiry date for bringing into use	BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
TCU	R		122632879		A-----	15	149.8175 - 149.8325	12.02.2028		1	ET	1	1
SDAT	E		122632875		A-----	2000	2225 - 2227	12.02.2028		1	EW	1	1
TMD1	E		122632876		A-----	10	435.075 - 435.085	12.02.2028		1	EA, EK, ER	1	3
TMD2	E		122632878		A-----	40	2225.98 - 2226.02	12.02.2028		1	EK, ER, ET	1	3

BR57 Category	N4
BR75 Total number of units in Part II-S	8
BR76 Total number of units in Part III-S (122512100)	3
BR77 Overall number of units in this filing	11

A	A1a Sat. Network	INS-2	A1f1 Notif. adm.	IND	A1f3 Inter. sat. org.		BR1 Date of receipt	07.04.2022	BR20/BR21 BR IFIC no./part	2976/2
	BR6a/BR6b Id. no.	122500062	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.		TCU	R	

BR19 Ref. to BR IFIC I A1f2 Submitted on behalf A1g Short Mission Duration Res 32  Y A24a SDM commitment  YA4b1 No. of orbital planes  A4b2 Ref. body A4b1a Constellation A4b3a No. of space stations simult. trans. on Northern Hemisphere  A4b3b No. of space stations simult. trans. on Southern Hemisphere A4b7a Max. sat. rcv. simult.  A4b7b Avg. no. of As. E-stn  A4b7c Avg. distance A4b7d1 Excl. zone type  A4b7d2 Excl. zone width A4b6bis Limited or Extended set 

Orbital plane id. no.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4f Min. altitude	A4b4m,n,o Sun synchronous			A4b4g Right asc.	A4b6c Station keeping	A4b6e Specific modelled station	A4b4j Long. asc. node
				A4b4e Perigee		Y/N	Node reference time	Node local time	A4b4i Arg. of perigee	A4b6d Repeat period	A4b6f Precession rate	A4b6j Long. tolerance
1	97.5	2	0-01:35	527.63e0 522.11e0	522.11e0	Y						

Orbital plane no.	Satellite no.	A4b4h Initial phase angle	A4b4k Date	A4b4l Time	B4a Orbit link / List of beams
1	1				
1	2				

A17a Compliance with PFD limit dB(W/(m<sup>2</sup>·1MHz)) in the band 1164 - 1215 MHz A17a.bis Calculated EPFD value in the band 1610.6 – 1613.8 MHz  dB(W/(m<sup>2</sup>·20 kHz))A17b2 Calculated aggregate PFD value in the band 5030.0 - 5150.0 MHz  dB(W/(m<sup>2</sup>·150 kHz))A17b3 EPFD in the band 4990.0 - 5000.0 MHz  dB(W/(m<sup>2</sup>·10 MHz))A17d Mean PFD  dB(W/(m<sup>2</sup>·1 MHz))A17e1a Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT  dB(W/(m<sup>2</sup>·1 GHz))A17e1b Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT  dB(W/(m<sup>2</sup>·500 kHz))A17e1c Calculated EPFD value in the band 42.5 - 43.5 GHz at RA VLBI  dB(W/(m<sup>2</sup>·500 kHz))A15a EPFD compliance  A18a Aircraft earth station commitment BR104 Commitment Res 770  BR103 Demonstration Res 770 

<input type="checkbox"/>	B1a/BR17 Beam designation	TCU	B1b Steerable	<input type="checkbox"/>	B2 Emi-Rcp	R	B3a1 Max. co-polar gain	<input type="text" value="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.
					5

List of orbital planes

ALL

A A1a Sat. Network  A1f1 Notif. adm.  A1f3 Inter. sat. org.  BR1 Date of receipt  BR20/BR21 BR IFIC no./part   
 BR6a/BR6b Id. no.  BR3a/BR3b Provision reference  N BR2 Adm. serial no.  TCU  R

B4a3a1 Angle alpha  B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.  BR1 Date of receipt  C2c RR No. 4.4  BR97 No. 11.43A  BR98 For use in accordance with Res 163/164

A2a Date of bringing into use  A2b Period of valid.  A3a Op. agency  A3b Adm. resp.  BR16 Value of type C8b  A4b7cbis Min. elevation angle

BR62 Expiry date for bringing into use  BR63 Confirmed date of bringing into use  BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station  C3a Assigned freq. band  C5a Noise temperature  B4b5 Peak of pfd

C4b Nature of service  C6a Polarization type  C6b Polarization angle

C11a1 Service area no.  C11a2 Service area     C11a3 Service area diagram

A5/A6 Coordinations/Agreements

## C2a1 Assigned frequency

149.825 MHz

A13 Ref. to Special Sections	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.
API/A/12767	1 15K0G1D--	24.7	-11.2	20		-16		17	

## C7b Carrier frequency of the emissions (15K0G1D--)

149.825 MHz

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.		C10d3 Max. iso. gain	C10d4 Bmwidth	C10d7 Ant. diameter	C8g1 Max. aggr. pwr.	C8g2 Aggr. bandwidth	C8g3 Transp. bandwidth = Aggr. bandwidth
8EYUL	S	080E57 25	26N54 48	IND	1	TT OT	16	23				
8EYU	S	077E30 42	13N02 05	IND	1	TT OT	16	23				
TAMPERE	S	023E45 39	61N29 52	FIN	1	TT OT	13.5	44.3				
DELFT	S	004E21 25	52N00 06	HOL	1	TT OT	11.5	30				

## 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.
8EYUL	AP8						
8EYU	AP8						
TAMPERE	AP8						
DELFT	AP8						

Findings 2D Date of protection  13A Conformity with RR    13B1 Prov.  13B2 Remarks  13B3 Date of Review

13C Remarks

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

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

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16  Attach. no.

## B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
						6

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ٢٠٢٢ II-S / II-S الجزء

A A1a Sat. Network  A1f1 Notif. adm.  A1f3 Inter. sat. org.  BR1 Date of receipt  BR20/BR21 BR IFIC no./part

BR6a/BR6b Id. no.  BR3a/BR3b Provision reference  N BR2 Adm. serial no.  SDAT  E

List of orbital planes  
ALL

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

BR7a/BR7b Group id.  BR1 Date of receipt  C2c RR No. 4.4  BR97 No. 11.43A  BR98 For use in accordance with Res 163/164

A2a Date of bringing into use  A2b Period of valid.  A3a Op. agency  A3b Adm. resp.  BR16 Value of type C8b  A4b7cbis Min. elevation angle

BR62 Expiry date for bringing into use  BR63 Confirmed date of bringing into use  BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station  C3a Assigned freq. band  B4b5 Peak of pfd

C4b Nature of service  C6a Polarization type  C6b Polarization angle

C8d1 Max. tot. peak pwr.  C8d2 Contiguous bandwidth

C11a1 Service area no.  C11a2 Service area  C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency  
2226 MHz

A13 Ref. to Special Sections	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.
API/A/12767	1 2M00G1D--	-3	-66	-3		-66		14	

C7b Carrier frequency of the emissions (2M00G1D--)  
2226 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.	C10d7 Ant. diameter
TYP-11	S	077E30 40	13N02 04	IND	1 TW OT	45	0.75	200	
TYP-11L	S	080E57 27	26N54 47	IND	1 TW OT	45	0.75	200	

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYP-11	REC-465-5						
TYP-11L	REC-465-5						

Findings 2D Date of protection  13A Conformity with RR  13B1 Prov.  13B2 Remarks  13B3 Date of Review

13C Remarks

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

B2a1 Transmit only when visible from notified service area  B2a2 Min. Elev. Angle   
B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16  Attach. no.

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						6





PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ۲ACT۲ II-S / II-S الجزء

A A1a Sat. Network  A1f1 Notif. adm.  A1f3 Inter. sat. org.  BR1 Date of receipt  BR20/BR21 BR IFIC no./part

BR6a/BR6b Id. no.  BR3a/BR3b Provision reference  N BR2 Adm. serial no.  TMD1  E

List of orbital planes  
ALL

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

BR7a/BR7b Group id.  BR1 Date of receipt  C2c RR No. 4.4  BR97 No. 11.43A  BR98 For use in accordance with Res 163/164

A2a Date of bringing into use  A2b Period of valid.  A3a Op. agency  A3b Adm. resp.  BR16 Value of type C8b  A4b7cbis Min. elevation angle

BR62 Expiry date for bringing into use  BR63 Confirmed date of bringing into use  BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station    C3a Assigned freq. band  B4b5 Peak of pfd

C4b Nature of service    C6a Polarization type  C6b Polarization angle

C8d1 Max. tot. peak pwr.  C8d2 Contiguous bandwidth

C11a1 Service area no.  C11a2 Service area     C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency  
435.08 MHz

A13 Ref. to Special Sections	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.
API/A/12767	1 10K0G1D--	-3.4	-43.4	-3.4		-43.4		14	

C7b Carrier frequency of the emissions (10K0G1D--)  
435.08 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.	C10d7 Ant. diameter
10EYU	S	077E30 45	13N02 08	IND	1 TA	OT	17	16	600	
10EYUL	S	080E57 28	26N54 48	IND	2 TR	OT	17	16	600	
TAMPERE	S	023E45 39	61N29 52	FIN	3 TK	OT	14	30	600	
DELFT	S	004E21 25	52N00 06	HOL	1 TA	OT	15.5	30	447	
					2 TR	OT				
					3 TK	OT				

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.
10EYU	AP8						
10EYUL	AP8						
TAMPERE	AP8						
DELFT	AP8						

Findings 2D Date of protection  13A Conformity with RR    13B1 Prov.  13B2 Remarks  13B3 Date of Review



A A1a Sat. Network  A1f1 Notif. adm.  A1f3 Inter. sat. org.  BR1 Date of receipt  BR20/BR21 BR IFIC no./part   
 BR6a/BR6b Id. no.  BR3a/BR3b Provision reference  N BR2 Adm. serial no.  TMD1 E

13C Remarks 

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

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

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16  Attach. no.

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
					7

List of orbital planes

ALL

B4a3a1 Angle alpha  B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.  BR1 Date of receipt  C2c RR No. 4.4  BR97 No. 11.43A  BR98 For use in accordance with Res 163/164

A2a Date of bringing into use  A2b Period of valid.  A3a Op. agency  A3b Adm. resp.  BR16 Value of type C8b  A4b7cbis Min. elevation angle

BR62 Expiry date for bringing into use  BR63 Confirmed date of bringing into use  BR64 Date of receipt of 1st Res49

BR14 Special Section 

C4a Class of station    C3a Assigned freq. band  B4b5 Peak of pfd

C4b Nature of service    C6a Polarization type  C6b Polarization angle

C8d1 Max. tot. peak pwr.  C8d2 Contiguous bandwidth

C11a1 Service area no.  C11a2 Service area   C11a3 Service area diagram

A5/A6 Coordinations/Agreements 

C2a1 Assigned frequency									
2226	MHz								

A13 Ref. to Special Sections	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.
API/A/12767	1 40K0G1D--	-3	-61	-3		-61		14	

C7b Carrier frequency of the emissions (40K0G1D--)									
2226	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.	C10d7 Ant. diameter
TYP-11	T				1	TT	45	0.75	200	
					2	TR				
					3	TK				
TYP-11L	T				1	TT	45	0.75	200	
					2	TR				
					3	TK				

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-S الجزء										
A	A1a Sat. Network	INS-2	A1f1 Notif. adm.	IND	A1f3 Inter. sat. org.		BR1 Date of receipt	07.04.2022	BR20/BR21 BR IFIC no./part	2976/2
	BR6a/BR6b Id. no.	122500062	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.		TMD2	E	

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.
TYP-11	REC-465-5						
TYP-11L	REC-465-5						

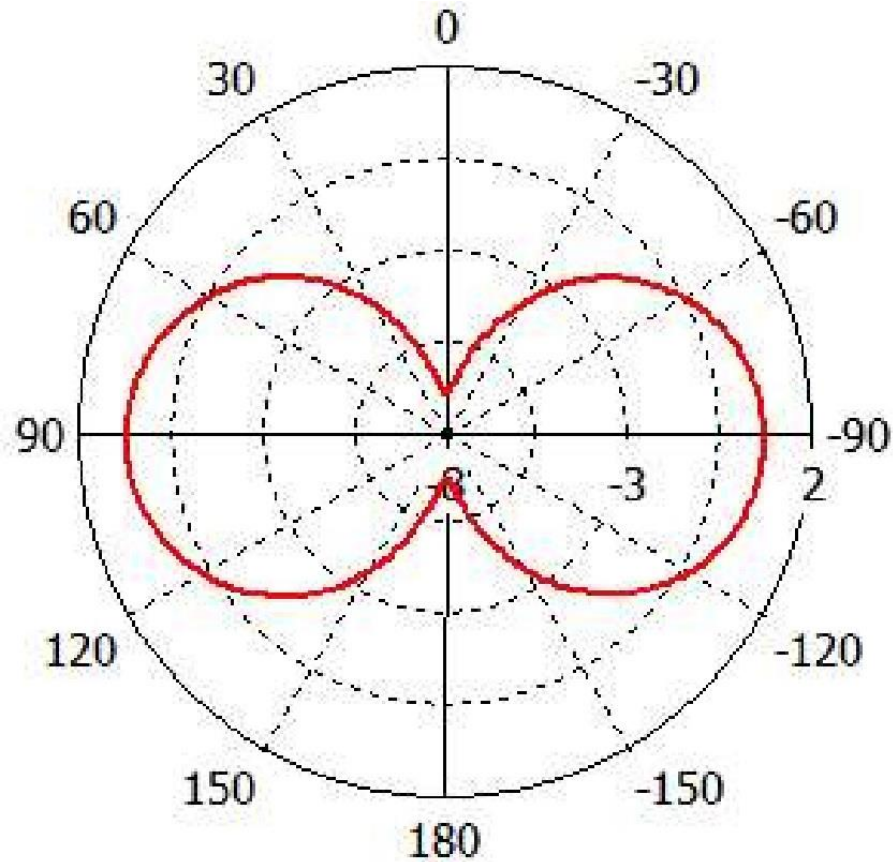
<b>Findings</b>	2D Date of protection	07.04.2022	13A Conformity with RR	A-	--	--	13B1 Prov.		13B2 Remarks		13B3 Date of Review	
13C Remarks												



Figure / Figura / 图 / Рисунок / 1 الشكل

DIAGRAMME DE RAYONNEMENT DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE  
SPACE STATION RECEIVING ANTENNA RADIATION PATTERN  
DIAGRAMA DE RADIACIÓN DE LA ANTENA RECEPTORA DE LA ESTACIÓN ESPACIAL  
空间电台接收天线辐射方向图  
ДИАГРАММА НАПРАВЛЕННОСТИ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ  
مخطط الإشعاع لهوائي الاستقبال للمحطة الفضائية

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : TCU



Gain (dBi) / Thêta (degrés)

Gain (dBi) vs. Theta (degrees)

Ganancia (dBi) vs. Theta (grados)

增益 (dBi) 与度数相比

Усиление (дБи) в зависимости от угла тета (град.)

الكسب (dBi) مقابل ثيتا (بالدرجات)

Figure / Figura / 图 / Рисунок / 2 الشكل

DIAGRAMME DE RAYONNEMENT DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE  
 SPACE STATION TRANSMITTING ANTENNA RADIATION PATTERN  
 DIAGRAMA DE RADIACION DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL  
 空间电台发射天线辐射方向图  
 ДИАГРАММА НАПРАВЛЕННОСТИ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ  
 مخطط الإشعاع لهوائي الإرسال للمحطة الفضائية

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : SDAT

Polarisation dextrogyre (Phi=0)

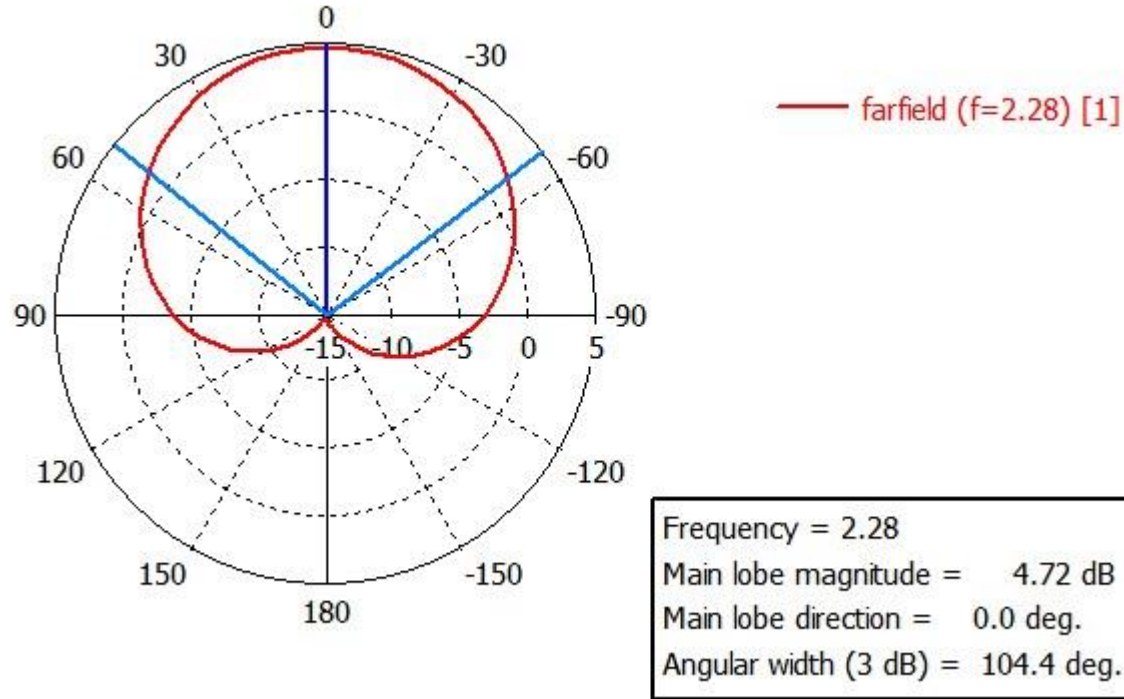
Right Polarisation (Phi=0)

Polarización dextrógira (Phi=0)

右极化 (Phi=0)

Правосторонняя поляризация  
(Phi = 0)

استقطاب ميامن (Phi=0)



Gain (dBi) / Thêta (degrés)

Gain (dBi) vs. Theta (degrees)

Ganancia (dBi) vs. Theta (grados)

增益 (dBi) 与度数相比

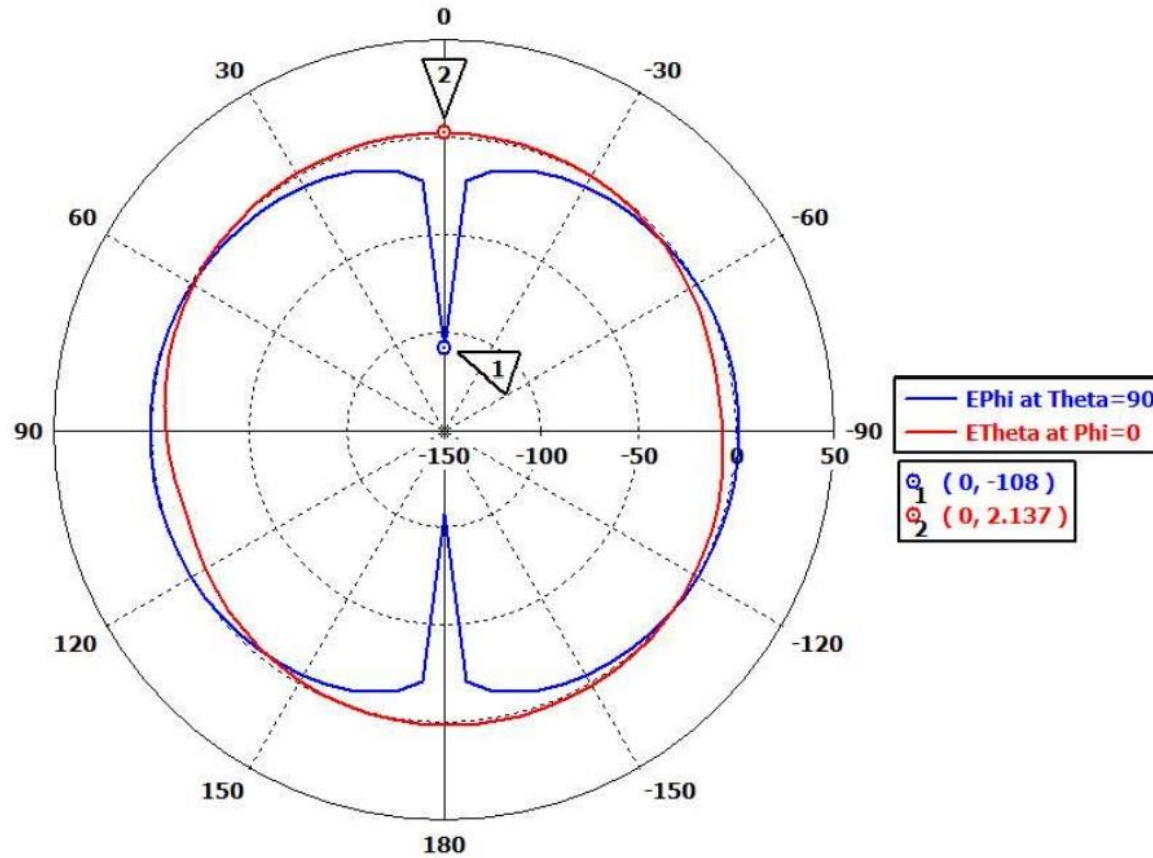
Усиление (дБи) в зависимости от угла тета (град.)

الكسب (dBi) مقابل ثيتا (بالدرجات)

الشكل / 3 / Rисунок / 图 / Figura / Figure

DIAGRAMME DE RAYONNEMENT DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE  
 SPACE STATION TRANSMITTING ANTENNA RADIATION PATTERN  
 DIAGRAMA DE RADIACION DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL  
 空间电台发射天线辐射方向图  
 ДИАГРАММА НАПРАВЛЕННОСТИ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ  
 مخطط الإشعاع لهوائي الإرسال للمحطة الفضائية

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : TMD1



Gain (dBi) / Thêta (degrés)

Gain (dBi) vs. Theta (degrees)

Ganancia (dBi) vs. Theta (grados)

增益 (dBi) 与度数相比

Усиление (дБи) в зависимости от угла тета (град.)

الكسب (dBi) مقابل ثيتا (بالدرجات)

Figure / Figura / 图 / Рисунок / 4 الشكل

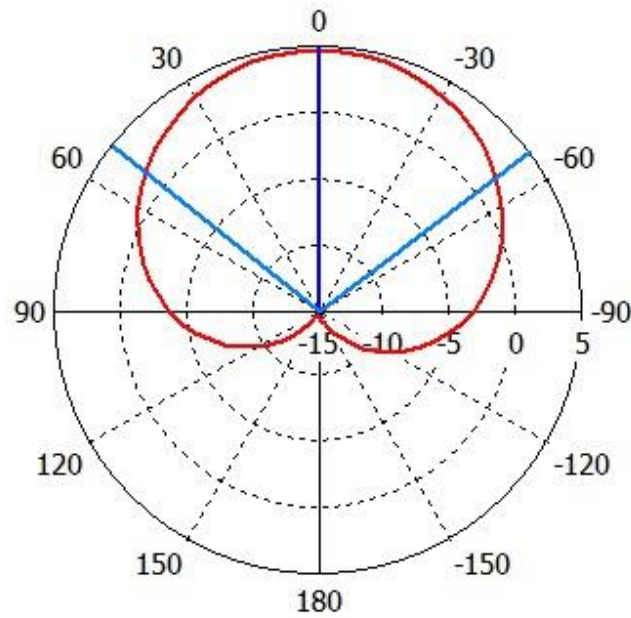
DIAGRAMME DE RAYONNEMENT DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE  
 SPACE STATION TRANSMITTING ANTENNA RADIATION PATTERN  
 DIAGRAMA DE RADIACION DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL  
 空间电台发射天线辐射方向图  
 ДИАГРАММА НАПРАВЛЕННОСТИ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ  
 مخطط الإشعاع لهوائي الإرسال للمحطة الفضائية

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : TMD2

Polarisation dextrogyre (Phi=0)

Right Polarisation (Phi=0)

Polarización dextrógira (Phi=0)



— farfield (f=2.28) [1]

Frequency = 2.28  
 Main lobe magnitude = 4.72 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 104.4 deg.

右极化 (Phi=0)

Правосторонняя поляризация  
 (Phi = 0)

استقطاب ميامن (Phi=0)

Gain (dBi) / Thêta (degrés)

Gain (dBi) vs. Theta (degrees)

Ganancia (dBi) vs. Theta  
 (grados)

增益 (dBi) 与度数相比

Усиление (дБи) в зависимости  
 от угла тета (град.)

الكسب (dBi) مقابل ثيتا (بالدرجات)