

Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Spurious Emi	ssions								o 1 Max
Limit Che			DA	<u>88</u>					O'T MOX
Line SD		88.002		60 60					
Line_or	RICOS_LINE_A	55_002	· · · · · · · · · · · · · · · · · · ·	33					
20 dBm									
10 dBm									
0 dBm									
-10 dBm									
SPURIOUS LINE A	BS_002								
	-								
-20 dBm									
-30 dBm									
10 10									
-40 aBm									ال <mark>ا</mark> رى بى
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apo upin-	Leader .								
r									
9.0 kHz			16000 pt	s	80	0.0 MHz/			8.0 GHz

2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
9.000 kHz	150.000 kHz	1.000 kHz	10.762 50 kHz	-65.26 dBm	-49.26 dB
150.000 kHz	30.000 MHz	10.000 kHz	702.225 00 kHz	-44.83 dBm	-28.83 dB
30.000 MHz	746.000 MHz	100.000 kHz	745.821 00 MHz	-46.64 dBm	-30.64 dB
746.000 MHz	756.000 MHz	100.000 kHz	754.152 50 MHz	15.72 dBm	-34.28 dB
756.000 MHz	1.000 GHz	100.000 kHz	756.061 00 MHz	-39.70 dBm	-23.70 dB
1.000 GHz	8.000 GHz	1.000 MHz	7.980 31 GHz	-40.35 dBm	-24.35 dB

Figure 8.6-3: Conducted spurious emissions of high channel, antenna port 1



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Spurious Em	issions								o 1 May
Limit Che	ack		PA	SS	[OI Max
Line _SP	RIOUS_LINE_A	BS_002	PA	SS					
_									
20 dBm									
10 dBm									
0 dBm									
-10 dBm									
_SPURIOUS_LINE_A	8S_002								
-20 dBm									
20 0011									
20. d0m									
-30 dBm									
-40 dBm									
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		a di Mura	Louis and a difference	يريدا وريد الملطون وال	اماريقاله الكالالأليم با			and the ball of the second state of the second	
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d at the second second	י קריייון ור י								
-60 dBm	d								
ľ	mail								
9.0 kHz		1	16000 pt	· · · · · · · · · · · · · · · · · · ·	80	0.0 MHz/			8.0 GHz

2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
9.000 kHz	150.000 kHz	1.000 kHz	15.274 50 kHz	-65.83 dBm	-49.83 dB
150.000 kHz	30.000 MHz	10.000 kHz	702.225 00 kHz	-44.68 dBm	-28.68 dB
30.000 MHz	746.000 MHz	100.000 kHz	745.821 00 MHz	-42.40 dBm	-26.40 dB
746.000 MHz	756.000 MHz	100.000 kHz	748.212 50 MHz	16.20 dBm	-33.80 dB
756.000 MHz	1.000 GHz	100.000 kHz	756.061 00 MHz	-46.51 dBm	-30.51 dB
1.000 GHz	8.000 GHz	1.000 MHz	7.949 69 GHz	-40.57 dBm	-24.57 dB

Figure 8.6-4: Conducted spurious emissions of low channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Sourious Em	issions								o 1 May
Limit Che		1	DA	88					OI Max
Line SP	BIOUS LINE A	RS 002	PA	55					
		50_002		00					
20 dBm									
20 0011									
10 dBm									
0 dBm									
U UBM									
-10 dBm									
_SPURIOUS_LINE_/	48S_002								
-00 d0m									
-20 ubm									
-30 dBm									
10 10									
-40 dBm-									t a da
			بالانتدام الرب	. داغلابال	- Buulland		L. 1	الألفانية وماولي	al a she had been a s
	A description of the second	Later a hadden black	A DATE OF A	والملود الملكون الكندو ويوادرو		Carl Manufally South	add Hanst Jurd Million	A DE LA DELLE AND A DE LE DE L	tent bet a standard
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	and a state of the second s	de la la compañía de		dha an an an	. 1 0.	and a straight	a san hulu a sa s	·	
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A COLUMN THE	Marcal								
					L	L			L

2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
9.000 kHz	150.000 kHz	1.000 kHz	13.441 50 kHz	-65.70 dBm	-49.70 dB
150.000 kHz	30.000 MHz	10.000 kHz	702.225 00 kHz	-45.21 dBm	-29.21 dB
30.000 MHz	746.000 MHz	100.000 kHz	745.821 00 MHz	-45.64 dBm	-29.64 dB
746.000 MHz	756.000 MHz	100.000 kHz	751.667 50 MHz	15.90 dBm	-34.10 dB
756.000 MHz	1.000 GHz	100.000 kHz	756.061 00 MHz	-47.72 dBm	-31.72 dB
1.000 GHz	8.000 GHz	1.000 MHz	7.941 81 GHz	-40.96 dBm	-24.96 dB

Figure 8.6-5: Conducted spurious emissions of mid channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Spurious Emi	ssions								O1 May
Limit Che			DA	88					OI MOX
	DIOUS LINE A	88.002							
Line_SPL	RIOUS_LINE_A	p5_002	P #	55					
20 dBm									
10 dBm									
0 dBm									
-10 dBm									
	ac. 002								
_SPORIOUS_LINE_A	002								
-20 dBm									
-30 dBm									
-40 dBm									
				6		a dha		فيديدان وال	al tal da sa lata da la
		d i bula	. Theat a subset of	ى ابد الدائلات	وراجين وأفار فتدأو أتألا والز				The Association and the second se
	of a large time the large	الالالقا القالبين الماءاة	A ST OF STREET, SALES	THE REPAIRS PROFESSION	and the state of the	Control Martines	فالأفلال المرجبا وتقايناه	March March Latter and Additional	Alter and third part of the second
-50 dBm	Three Revealed in	and the second state of the state	Party of the second second	A DESCRIPTION OF THE OWNER.	AND A DR. P. C. P. D.		ALL	NUL CONTRACTOR OF	1
	Maille on damagnets	na de altre en la compañía de la com		data da se	Park.	atter streeter.	and a solution of the second		
اربلىقا للنار	nul .								
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-60 dBm									
AND ADDRESS OF	han bal								
0.0111-			16002						0.0.0
9.0 KHZ			16000 pt	S	80	U.U MHZ/			8.0 GHz

2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
9.000 kHz	150.000 kHz	1.000 kHz	126.241 50 kHz	-65.84 dBm	-49.84 dB
150.000 kHz	30.000 MHz	10.000 kHz	702.22500 kHz	-44.27 dBm	-28.27 dB
30.000 MHz	746.000 MHz	100.000 kHz	745.821 00 MHz	-48.08 dBm	-32.08 dB
746.000 MHz	756.000 MHz	100.000 kHz	753.227 50 MHz	15.53 dBm	-34.47 dB
756.000 MHz	1.000 GHz	100.000 kHz	756.061 00 MHz	-41.63 dBm	-25.63 dB
1.000 GHz	8.000 GHz	1.000 MHz	7.922 56 GHz	-41.02 dBm	-25.02 dB

Figure 8.6-6: Conducted spurious emissions of high channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-62.64 dBm
									763.308 70 MHz
10 dBm									
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm									
-40 d8m-									
-40 0811									
	H1 -49.000 dBr	n							
-50 dBm									
Mទ្0 dBm									
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-70 dBm		itilitation in the second	فالنب فخفف افاتا	and the print of the second second		and didition of the	anti di kin nili la lilana	il mitted with the stituted	
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763 0 MHz			10000 pt	· · · · · · · · · · · · · · · · · · ·		2 MHz /			805.0 MHz

Figure 8.6-7: Conducted spurious emissions of low channel, antenna port 1



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	ween								o 1 Pk Max
								M1[1]	-62.52 dBm
									764.85430 MHz
10 dBm									
20 0.0.11									
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm	H1 -49.000 dBr	n							
-60 dBM1									
มหายังเป็น									
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-70 dBm								and a second second second second	
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			1000-						
763.0 MHz			10000 pt	S	4	.2 MHz/			805.0 MHz

Figure 8.6-8: Conducted spurious emissions of mid channel, antenna port 1



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-62.76 dBm
									763.716 10 MHz
10 dBm									
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
50 dbm	H1 -49.000 dBr	n							
-50 0BM									
-MidBm-									
te dilla dan Katalanan da sa	Human in a								
A TIME WAS DREED IN	The state of the s								
-70 dBm	. Other and the second s	Million and Alan, and	the stand being	a literat fille internet, alle dimenter dire	a di kali li kitan ana ani dika ata	addition and	a the later data and the second	and the second states of	the debugs of the bird
		and the second second second second	INTERNET OF TAXABLE PARTY	and surface and and and a surface for	AND IN THE OWNER WATER OF	dependence and the second	and Milanyathan Adaptat	an jalatif (jalansin jan dat	
						1"			
763.0 MHz			10000 pt	·c	4				805 0 MHz

Figure 8.6-9: Conducted spurious emissions of high channel, antenna port 1



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued



Figure 8.6-10: Conducted spurious emissions of low channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								●1Pk Max
								M1[1]	-62.04 dBm
								1 7	763.716 10 MHz
10 dBm									
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm	H1 -49.000 dBr	n							
-MudBm									
adding a strand or									
and a standard of the standard of the									
-70 dBm	The second s	and an data an added		and easy of many affilis, it as in	a attend and and a state of the	alalah di kara su dalama	a contraction of the state	and all all all all the solutions	and all when a
		and the second second	and the second second	an little die passionalis fische passion is	and the second				A BEARING PLANT AND A DALLARD
763 0 MHz			10000 pt						205 0 MU-

Figure 8.6-11: Conducted spurious emissions of mid channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued



Figure 8.6-12: Conducted spurious emissions of high channel, antenna port 2



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-55.20 dBm
								1	.587 484 0 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
	H1 -43.000 dBr	n							
-50 dBm									
					M1				
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-60 dBm									
1 550 CHz		•	1000 pt/	· ·	5	1 MU>7		•	1610

Figure 8.6-13: Conducted spurious emissions of low channel, antenna port 1 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency	Sweep								o1Pk Max
								M1[1]	-55.57 dBm
								1	.583 710 0 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
	H1 -43.000 dB	n							
-50 dBm									
				M1					
		1		I, I			I	6	
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-60 dBm	the second second second	a transition		the states	i wa ni ka Miriaji.	1 1 1 1 1 1	1	and the second second	
1.559 GHz			1000 pts			.1 MHz/			1.61 GHz

Figure 8.6-14: Conducted spurious emissions of mid channel, antenna port 1 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-55.60 dBm
								1	.597 939 0 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
		n							
	111 101000 001								
-50 dBm									
							M1		
			this 1.0			1 . 1	a. La		
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-60 dBm	and the second second				· · · · · · · · · · · · · · · · · · ·	1.1.1.1.1.1.1		and the second second	
1 550 CH5			1000 ptr			1 MUS /			1.61.045

Figure 8.6-15: Conducted spurious emissions of high channel, antenna port 1 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-55.28 dBm
								1	.581 976 0 GHz
-10 dBm									
10 0.011									
-20 dBm									
-30 dBm									
-40 dBm									
	H1 -43.000 dBr	n							
-50 dBm									
				M1					
ter al maria	the mar and	المحالف بالقيب	Book Augure	at what the sur	Alton a M	a man han a	all la bound	a shard a son	Anna Bals in
who have a low and the will	Max Man Mund Tall	heral Marian Andrean A	I WAN WANK	ndur Manua al I. Marthatic	Advar-Alt article Advardance	monora March	herd when when the	A MANAMA PARAMA	" He and and a Made In
55 ubm									
1 550 011			1005						
1.559 GHz			1000 nts		5	. IMHZ/			1.61 GHz

Figure 8.6-16: Conducted spurious emissions of low channel, antenna port 2 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency	/ Sweep								o1Pk Max
								M1[1]	-55.22 dBm
								1	.5716740 GHz
-10 dBm									
-20 d8m									
-20 ubiii									
-30 dBm									
-40 dBm									
	H1 -43.000 dB	n							
-50 dBm									
		M1							
			1					- A- 4	
mark Man	MAMMA MAMMA	marthalter handler	ummul hand	Marmanna	Mariamentalia	meryman	Mr. Margalla Marked	MMMMMMM	MALANNA
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1.559 GHz			1000 pts	2	5	5.1 MHz/			1.61 GHz

Figure 8.6-17: Conducted spurious emissions of mid channel, antenna port 2 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-55.60 dBm
								1	.597 939 0 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
		n							
	111 101000 001								
-50 dBm									
							M1		
			this 1.0			1 . 1	a. La		
Montermannier	Unipholymour	Withananyman	1. AMMANAMANA	MANAMANAN	MAM in properties from	montheration	WWWWWWWWW	Mr. Ward March	MANHAMMAN
-60 dBm	and the second second				· · · · · · · · · · · · · · · · · · ·			and the second second	
1 550 CH5			1000 ptr			1 MUS /			1.61.045

Figure 8.6-18: Conducted spurious emissions of high channel, antenna port 2 – broad band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-86.85 dBm
								1.5	92 209 500 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
50 d0m									
-50 dBm	u1 52.000 db.								
	H1 -53.000 UB/	0							
-60 dBm									
-70 dBm									
-80 dBm									
						M1			
Participation (Name of	and the state of the	at the fact state of the	han tahu kana penanjitak	hide and the second states	والطواب الديسالية الرواسية أبور	الاراهة ويوسط المتقال ومعتريها	and adding of the dam	hashiphandifikilatalih	فالجاب أبراز إحمادا للاور الرطعانا
heiteren jasi parkan kinakatura	notockiera diktorek kante derbe	diaminikalisi _{n se} nggangan di	Association of the particular par	mittan provident and design	and a state of the second	and the second	and the second states	platif presidentification and	terrentidenti Maskingin Lassenia
1 550 GHz			51000 pt			1 MHz/		•	1.61.GHz

Figure 8.6-19: Conducted spurious emissions of low channel, antenna port 1 – narrow band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sv	weep								o 1Pk Max
								M1[1]	-85.87 dBm
								1.6	09 424 <mark>500 G</mark> Hz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm-									
-30 0011	111 52 000 db.								
	HI -53,000 UBr	1							
-60 dBm									
no in									
-70 dBm									
-80 dBm									
									M1
									T T
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		T					International Action of the second se		
1 550 CHz			51000 pt		5	1 MU>7			161047

Figure 8.6-20: Conducted spurious emissions of mid channel, antenna port 1 – narrow band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-85.89 dBm
								1.5	68 272 500 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
55 4511	H1 -53,000 dBr	n							
-60 dBm-									
-70 dBm									
-80 dBm									
	M1								
a for foods to the	la constant	والمتعالية والمتعاولة	and a statistical second	in a cardina a state	يلد ب الدراب	to a state of the term	Blue and the C	tate march contact to a	يحطله بقريقا والع
-90 dBm	atalowa (wan'i awaanya pab	and a state of the second s	an an an Anna an Anna an Anna Anna Anna	terment of the Constrained of th	i yana di politiko kaji pa 944. K	terreter and the provided of the second s	and in the first state of the	al ballest o na sisteration da	ever substance number
ورائع ويراستها مساويها مرايل	and the second se	and the second se	and the state of the second	and the second se	a line bar a set of set of the se	the second s	a start and a start of the later of the later	and an and a set of the	and the second

Figure 8.6-21: Conducted spurious emissions of high channel, antenna port 1 – narrow band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency Sy	weep								o1Pk Max
								M1[1]	-86.04 dBm
								1.6	04 194 500 GHz
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
	H1 -53.000 dBr	n							
co dom									
-60 dBm									
-70 dBm									
-80 dBm									
								M1	
					LL	I	1	an stand	a haaraa a
-90 dBm	las en alemante la constante de la constante d	Physiological and the state of	habitent, outfille, balanci,	telephie he here he alwellen	Welthin Antointal and a	UNUS CONTRACTOR OF CONTRACTOR	had a state of the	Halldon a Milliple, Polylik dala	n tu shakar ta da bar
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1 550 CHz			51000 pt		5	1 MH 7 /			1.61.047

Figure 8.6-22: Conducted spurious emissions of low channel, antenna port 2 – narrow band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-86.38 dBm
								1.5	76 648 500 GHz
-10 dBm									
-20 dBm									
00.40									
-30 dBm									
-40 dBm									
-50 dBm									
	H1 -53.000 dBr	n							
co dom									
-00 uBm									
-70 dBm									
-80 dBm									
			M1						
			T.						li ku s
-90 dBm	Detriction and the highlight in the	hap-wo	hard stated and the state of th	hide of Antibachine and a state of the state	alter for the barry pillent	http://www.watelling	dadastin _{a s} pailadiati	Hereitzellereitzehler	like of a constant of the part of
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1 550 CHz			51000 pt			1 MHz /			1.61.04-
11009 0112			51000 pt	.3		6 I 1011 IZY			1.01.0HZ

Figure 8.6-23: Conducted spurious emissions of mid channel, antenna port 2 – narrow band



Testing data Spurious emissions conducted measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.6.3)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-86.45 dBm
								1.5	83 573 500 GHz
10.10									
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
	H1 -53.000 dBr	n							
-60 dBm									
-70 dBm									
-80 dBm									
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				M1					
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				''					
1 550 GHz			51000 pt		۱ ۲	1 MHz/		1	1.61.GHz

Figure 8.6-24: Conducted spurious emissions of high channel, antenna port 2 – narrow band

8.7 Spurious emissions radiated measurements

8.7.1 References, definitions and limits

FCC §27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

FCC §27.53(f)

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

RSS-131, Clause 5.2

Industrial Zone Enhancers, including DASs, shall employ a gain control feature and shall comply with all the requirements in the RSS which applies to the equipment with which the zone enhancer is to be used. In addition, the equipment shall comply with the requirements specified in this section.

RSS-130, Clause 4.7.1

General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

RSS-130, Clause 4.7.2

Additional unwanted emissions limits

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - 76 + 10 log10 p (watts), dB, for base and fixed equipment and
 - 65 + 10 log10 p (watts), dB, for mobile and portable equipment
- (b) the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

8.7.2 Test summary

Verdict	Pass		
Tested by	P. Barbieri	Test date	February 8, 2022



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

8.7.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to the 10th harmonic.

All measurements were performed using peak detector according to note 4 of 935210 D05 Indus Booster Basic Meas v01r04 paragraph 3.6.3.

Testing was performed with RF ports terminated with 50 Ohm load.

In the graphics below, no radiated spurious emission found and the limit is exceeded only by the carrier.

Spectrum analyser settings:

, , ,	
Resolution bandwidth:	100 kHz and 1 MHz
Video bandwidth:	$VBW \ge 3 \times RBW$
Detector mode:	Peak
Trace mode:	Max Hold

. .

Input signal frequency	
Low channel	748.5 MHz
Middle channel	751.0 MHz
High channel	753.5 MHz

8.7.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767
EMI Receiver	Rohde & Schwarz	ESW44	101620
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01
Controller	Maturo	FCU3.0	10041
Tilt antenna mast	Maturo	TAM4.0-E	10042
Turntable	Maturo	TT4.0-5T	2.527
Semi-anechoic chamber	Nemko S.p.a.	10m semi-anechoic chamber	530

Notes: NCR - no calibration required, VOU - verify on use



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

8.7.5 Test data



Figure 8.7-1: Radiated spurious emissions below 1 GHz, low channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-2: Radiated spurious emissions from 1 GHz to 10 GHz, low channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-3: Radiated spurious emissions below 1 GHz, low channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-4: Radiated spurious emissions from 1 GHz to 10 GHz, low channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-5: Radiated spurious emissions below 1 GHz, mid channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-6: Radiated spurious emissions from 1 GHz to 10 GHz, mid channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-7: Radiated spurious emissions below 1 GHz, mid channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-8: Radiated spurious emissions from 1 GHz to 10 GHz, mid channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-9: Radiated spurious emissions below 1 GHz, high channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-10: Radiated spurious emissions from 1 GHz to 10 GHz, high channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-11: Radiated spurious emissions below 1 GHz, high channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-12: Radiated spurious emissions from 1 GHz to 10 GHz, high channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-13: Radiated spurious emissions from 763 MHz to 805 MHz, low channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-14: Radiated spurious emissions from 763 MHz to 805 MHz, low channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-15: Radiated spurious emissions from 763 MHz to 805 MHz, mid channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-16: Radiated spurious emissions from 763 MHz to 805 MHz, mid channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

25 dam	1 Frequency Sv	weep								o1Pk Max
25 dBm 1599 7240 GHz 30 dBm 1 36 dBm 1 40 dBm 1 411 40.000 dBm 1 45 dBm 1 46 dBm 1 47 dBm 1 48 dBm 1 49 dBm 1 40 dBm 1 41 40 dBm 1 42 dBm 1 43 dBm 1 50 dBm <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>M1[1]</td><td>-71.80 dBm</td></t<>									M1[1]	-71.80 dBm
23 dm - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>.5997240 GHz</td>									1	.5997240 GHz
30 dem	-25 dBm									
30 dm										
30 dbm										
35 dBm	-30 dBm									
-35 dbm										
35 dBm H1 40.000 dBm										
40 dBm H1 - 40.000 dBn Image: state	-35 dBm									
40 dbm H1 40.000 dbm III I 40.000										
45 dBm	-40 dBm	U1 -40 000 dBr								
-45 dBm	40 UBII	111 40.000 001								
45 dem										
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	-/5 dBm-+									
	1.550.005			1000						161015

Figure 8.7-17: Radiated spurious emissions from 763 MHz to 805 MHz, high channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-18: Radiated spurious emissions from 763 MHz to 805 MHz, high channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-19: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), low channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequ	Jency Sv	weep								o1Pk Max
									M1[1]	-71.19 dBm
									1	.608 649 0 GHz
-25 dBm-										
-30 dBm-										
-35 dBm-										
40 dBm		11 40 000 dBr								
-40 abm		H1 -40.000 dBr	1							
-45 dBm-										
-50 dBm-										
-55 dBm-										
60 db										
-60 dBm-										
-65 dBm-										
-70 dBm-										M1
1.		.1	1 h			1.1.1		. A.L. A.	an doub to	and the second states of
4 MM	ye/Mrwhr	n May Market Million	NV-MM-MM	Myluinminm	VAN WWWWWW	And March March March March	Manyouperturbation	MUMU WUNY WAR	adonoof a philo Parthear	Warmer a commente
-75 dBm-	· · ·		,		,					
1.559	GHz			1000 pts	1	5	.1 MHz/			1.61 GHz

Figure 8.7-20: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), low channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequency Sv	weep								o1Pk Max
								M1[1]	-70.88 dBm
								1	.604 161 0 GHz
-25 dBm									
25 0011									
-30 dBm									
00 00.0									
-35 dBm									
-40-dBm	H1 -40.000 dBr	n							
-45 dBm									
-50 dBm									
-55 dBm									
-60 dBm									
-65 dBm									
								M1	
-70 dBm								Ĭ	
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ICF 1.5845 GHz			1000 pts	5	5	5.1 MHz/			Span 51.0 MHz

Figure 8.7-21: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), mid channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-70.76 dBm
								1	.600 795 0 GHz
-25 dBm									
-30 dBm									
-35 dBm									
-40-dBm-	H1 -40:000 dBr	n							
-45 dBm									
50 d8m									
-50 abm									
-55 dBm									
-60 dBm									
-65 dBm									
-70 dBm		1						M.L.	
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-75 dBm-									
1.559 GHz			1000 pts	5	5	5.1 MHz/			1.61 GHz

Figure 8.7-22: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), mid channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequency S	weep								o1Pk Max
								M1[1]	-71.80 dBm
								1	.5997240 GHz
-25 dBm									
-30 dBm									
-35 dBm									
-40-dBm	H1 -40.000 dBr	n							
-45 dBm									
-50 dBm									
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-55 dBm									
-60 dBm									
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-70 dBm							M	1	
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-75 dBm	Windows - White Will	MARENNER	Manual and Manual	no popular na hallana	NIMATIANAAN	North A Service and A left	Minute Manufactures and the second	. when had the prove	Nach Maria Mara Marana
1.550.045			1000 ptr		5	1 MU>/			1.61.047

Figure 8.7-23: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), high channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequence	cy Sweep								o1Pk Max
								M1[1]	-71.46 dBm
								1	.5840160 GHz
-25 dBm									
-30 dBm									
-35 dBm									
-40 dBm	H1 -40.000 dBr	۱							
-45 dBm									
-50 dBm									
-55 dBm									
-60 dBm									
-65 dBm									
-70 dBm				MI					
				Ť				d . 1	λ
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-75 dBm	e va a March versaa, e. Matajiranaa a	all ^{Mara} and An Ald Markin	ata AMAN Ada Mark. A	alls who are a chord at a	AN MANNA CANAN	dira Marina da ha i	and a sector has been a sec	AAA Di Maga oo ahaa	A FILL OF THE PROPERTY OF THE P
1.559 GHz	2		1000 pts	5	5	.1 MHz/			1.61 GHz

Figure 8.7-24: Radiated spurious emissions from 1559 MHz to 1610 MHz (broad band), high channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-25: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), low channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-26: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), low channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-27: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), mid channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-28: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), mid channel with antenna in vertical polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued

1 Frequ	ency Sv	veep								o1Pk Max
									M1[1]	-75.49 dBm
									1.5	99 999 500 GHz
-40 dBm—										
50-dBm		H1 -50.000 dBr	n							
-60 dBm-										
70 d0m										
-70 ubm-										
									м1	
									Ţ	
-80 dBm-										
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-90 dBm-	_									
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-100 dBm			•							
1.559 0	Hz			51000 pt	s		5.1 MHz/			1.61 GHz

Figure 8.7-29: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), high channel with antenna in horizontal polarization



Testing data Spurious emissions radiated measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.8)

Test data, continued



Figure 8.7-30: Radiated spurious emissions from 1559 MHz to 1610 MHz (narrow band), high channel with antenna in vertical polarization

8.8 Frequency stability measurements

8.8.1 References, definitions and limits

FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

RSS-131, Clause 5.2.4

Industrial zone enhancers shall comply with the frequency stability given in the RSS that applies to the equipment with which the zone enhancer is to be used. In cases where the frequency stability limit is not given in the applicable RSS, the equipment shall comply with a frequency stability of \pm 1.5 ppm. For zone enhancers with no input signal processing capability, the frequency stability measurement in this section is not required.

RSS-130, Clause 4.5

For equipment that is capable of transmitting numerous channels simultaneously for different applications (e.g. LTE and narrowband – internet of things (IoT)), the occupied bandwidth shall be the bandwidth representing the sum of the occupied bandwidths of these channels.

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSSGen

RSS-Gen, Clause 6.11

Transmitter frequency stability

Frequency stability is a measure of frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at an appropriate reference temperature and the rated supply voltage.

When the measurement method of transmitter frequency stability is not stated in the applicable RSS or reference standards, the following conditions apply:

- a. The reference temperature for radio transmitters is +20°C (+68°F).
- b. A hand-held device that is only capable of operating using internal batteries shall be tested at the battery's nominal voltage, and again at the battery's operating end-point voltage, which shall be specified by the equipment manufacturer. For this test, either a battery or an external power supply can be used.

c. The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency-determining circuit element shall be made subsequent to this initial set-up. With the transmitter installed in an environmental test chamber, the unmodulated carrier frequency and frequency stability shall be measured under the conditions specified below for licensed and licence-exempt devices, unless specified otherwise in the applicable RSS. A sufficient stabilization period at each temperature shall be used prior to each frequency measurement. For licensed devices, the following measurement conditions apply:

- a. at the temperatures of -30°C (-22°F), +20°C (+68°F) and +50°C (+122°F), and at the manufacturer's rated supply voltage
- b. at the temperature of +20°C (+68°F) and at ±15% of the manufacturer's rated supply voltage

8.8.2 Test summary

Verdict	Pass		
Tested by	P. Barbieri	Test date	February 8, 2022

8.8.3 Observations, settings and special notes

Testing was performed per ANSI C63.26 Paragraphs 5.6.3, 5.6.4 and 5.6.5 methods.



Testing data Frequency stability measurements 935210 D05 Indus Booster Basic Meas v01r04 (3.7)

8.8.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
EMI Receiver	Rohde & Schwarz	ESU8	100202
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397
Climatic Chamber	MSL	EC500DA	15022

Notes: NCR - no calibration required, VOU - verify on use

8.8.5 Test data

Table 8.8-1: Transmitter frequency stability results for antenna port 1

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm	Limit ±ppm	Margin, ±ppm
+50 °C, Nominal	751000550.4	18.2	0.02423	1.5	1.48
+40 °C, Nominal	751000547.7	15.5	0.02064	1.5	1.48
+30 °C, Nominal	751000544.8	12.6	0.01678	1.5	1.48
+20 °C, -15% voltage	751000533.5	1.3	0.00173	1.5	1.50
+20 °C, Nominal	751000532.2	Reference	Reference	Reference	Reference
+20 °C, +15% voltage	751000531.3	-0.9	-0.00120	1.5	1.50
+10 °C, Nominal	751000514.7	-17.5	-0.02330	1.5	1.48
0 °C, Nominal	751000502.0	-30.2	-0.04021	1.5	1.46
–10 °C, Nominal	751000480.7	-51.5	-0.06858	1.5	1.43
–20 °C, Nominal	751000474.0	-58.2	-0.07750	1.5	1.42
–30 °C, Nominal	751000411.4	-120.8	-0.16085	1.5	1.34

Table 8.8-2: Transmitter frequency stability results for antenna port 2

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm	Limit ±ppm	Margin, ±ppm
+50 °C, Nominal	751000550.7	18.3	0.02437	1.5	1.48
+40 °C, Nominal	751000549.2	16.8	0.02237	1.5	1.48
+30 °C, Nominal	751000545.0	12.6	0.01678	1.5	1.48
+20 °C, -15% voltage	751000534.3	1.9	0.00253	1.5	1.50
+20 °C, Nominal	751000532.4	Reference	Reference	Reference	Reference
+20 °C, +15% voltage	751000531.3	-1.1	-0.00146	1.5	1.50
+10 °C, Nominal	751000515.1	-17.3	-0.02304	1.5	1.48
0 °C, Nominal	751000501.3	-31.1	-0.04141	1.5	1.46
–10 °C, Nominal	751000481.2	-51.2	-0.06818	1.5	1.43
–20 °C, Nominal	751000473.5	-58.9	-0.07843	1.5	1.42
–30 °C, Nominal	751000411.3	-121.1	-0.16125	1.5	1.34



Section 9 EUT photos

9.1 Set-up photos



Figure 9.1-1: Antenna port testing set-up



Figure 9.1-2: Antenna port testing set-up in climatic chamber

Section 9 EUT photos





Figure 9.1-3: Radiated emissions set-up for frequencies below 1 GHz



Figure 9.1-4: Radiated emissions set-up for frequencies above 1 GHz



9.2 External photos

Figure 9.2-1: EUT photo

End of the test report