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Appendix B

E-UTRA Band26 (814-824)



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1 Effective (Isotropic) Radiated Power Output Data

Effect	Effective Radiated Power of Transmitter (ERP) for LTE BAND 26										
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict			
				RB1#0	23.61	22.26	38.45	PASS			
				RB1#2	23.72	21.57	38.45	PASS			
				RB1#5	23.28	21.13	38.45	PASS			
			LCH	RB3#0	23.27	21.12	38.45	PASS			
				RB3#2	23.55	21.40	38.45	PASS			
		1.4M		RB3#3	23.65	21.50	38.45	PASS			
				RB6#0	22.32	20.17	38.45	PASS			
			МСН	RB1#0	23.15	21.00	38.45	PASS			
				RB1#2	23.52	21.37	38.45	PASS			
				RB1#5	23.11	20.96	38.45	PASS			
BAND26	LTE/TM1			RB3#0	23.33	21.18	38.45	PASS			
				RB3#2	23.34	21.19	38.45	PASS			
				RB3#3	23.64	21.49	38.45	PASS			
				RB6#0	22.27	20.12	38.45	PASS			
				RB1#0	23.29	21.14	38.45	PASS			
				RB1#2	23.36	21.21	38.45	PASS			
				RB1#5	22.96	20.81	38.45	PASS			
			НСН	RB3#0	23.38	21.23	38.45	PASS			
				RB3#2	23.23	21.08	38.45	PASS			
				RB3#3	23.21	21.06	38.45	PASS			
				RB6#0	22.09	19.94	38.45	PASS			

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.51	20.16	38.45	PASS
				RB1#2	21.99	19.84	38.45	PASS
				RB1#5	21.45	19.30	38.45	PASS
			LCH	RB3#0	22.40	20.25	38.45	PASS
				RB3#2	22.25	20.10	38.45	PASS
				RB3#3	22.38	20.23	38.45	PASS
	LTE/TM2	1.4M		RB6#0	21.37	19.22	38.45	PASS
				RB1#0	22.19	20.04	38.45	PASS
			МСН	RB1#2	22.04	19.89	38.45	PASS
				RB1#5	21.37	19.22	38.45	PASS
BAND26				RB3#0	22.20	20.05	38.45	PASS
				RB3#2	22.38	20.23	38.45	PASS
				RB3#3	22.31	20.16	38.45	PASS
				RB6#0	21.16	19.01	38.45	PASS
				RB1#0	21.61	19.46	38.45	PASS
				RB1#2	22.08	19.93	38.45	PASS
				RB1#5	20.99	18.84	38.45	PASS
			НСН	RB3#0	21.77	19.62	38.45	PASS
				RB3#2	21.76	19.61	38.45	PASS
				RB3#3	22.16	20.01	38.45	PASS
				RB6#0	21.10	18.95	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.19	21.84	38.45	PASS
				RB1#7	22.99	20.84	38.45	PASS
				RB1#14	22.79	20.64	38.45	PASS
			LCH	RB8#0	21.70	19.55	38.45	PASS
				RB8#4	21.79	19.64	38.45	PASS
				RB8#7	21.67	19.52	38.45	PASS
		ЗМ		RB15#0	21.61	19.46	38.45	PASS
			МСН	RB1#0	23.31	21.16	38.45	PASS
				RB1#7	23.08	20.93	38.45	PASS
				RB1#14	22.76	20.61	38.45	PASS
BAND26	LTE/TM1			RB8#0	21.95	19.80	38.45	PASS
				RB8#4	22.37	20.22	38.45	PASS
				RB8#7	22.05	19.90	38.45	PASS
				RB15#0	22.35	20.20	38.45	PASS
				RB1#0	22.94	20.79	38.45	PASS
				RB1#7	22.32	20.17	38.45	PASS
				RB1#14	22.86	20.71	38.45	PASS
			НСН	RB8#0	22.23	20.08	38.45	PASS
				RB8#4	22.30	20.15	38.45	PASS
				RB8#7	21.97	19.82	38.45	PASS
				RB15#0	21.43	19.28	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.16	19.81	38.45	PASS
				RB1#7	20.98	18.83	38.45	PASS
				RB1#14	21.63	19.48	38.45	PASS
			LCH	RB8#0	20.65	18.50	38.45	PASS
				RB8#4	21.20	19.05	38.45	PASS
				RB8#7	20.88	18.73	38.45	PASS
		ЗМ		RB15#0	21.30	19.15	38.45	PASS
	LTE/TM2		МСН	RB1#0	22.22	20.07	38.45	PASS
				RB1#7	21.68	19.53	38.45	PASS
				RB1#14	21.32	19.17	38.45	PASS
BAND26				RB8#0	21.24	19.09	38.45	PASS
				RB8#4	20.81	18.66	38.45	PASS
				RB8#7	21.29	19.14	38.45	PASS
				RB15#0	20.72	18.57	38.45	PASS
				RB1#0	22.17	20.02	38.45	PASS
				RB1#7	20.97	18.82	38.45	PASS
				RB1#14	21.65	19.50	38.45	PASS
			НСН	RB8#0	20.96	18.81	38.45	PASS
				RB8#4	20.82	18.67	38.45	PASS
				RB8#7	21.32	19.17	38.45	PASS
				RB15#0	20.20	18.05	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	23.05	21.70	38.45	PASS
				RB1#13	22.82	20.67	38.45	PASS
				RB1#24	22.05	19.90	38.45	PASS
			LCH	RB12#0	21.70	19.55	38.45	PASS
				RB12#6	21.71	19.56	38.45	PASS
		5М		RB12#13	21.68	19.53	38.45	PASS
				RB25#0	22.04	19.89	38.45	PASS
			мсн	RB1#0	22.73	20.58	38.45	PASS
				RB1#13	23.54	21.39	38.45	PASS
				RB1#24	23.08	20.93	38.45	PASS
BAND26	LTE/TM1			RB12#0	21.68	19.53	38.45	PASS
				RB12#6	21.72	19.57	38.45	PASS
				RB12#13	21.56	19.41	38.45	PASS
				RB25#0	21.39	19.24	38.45	PASS
				RB1#0	23.09	20.94	38.45	PASS
				RB1#13	22.69	20.54	38.45	PASS
				RB1#24	22.69	20.54	38.45	PASS
			НСН	RB12#0	21.86	19.71	38.45	PASS
				RB12#6	21.80	19.65	38.45	PASS
				RB12#13	22.21	20.06	38.45	PASS
				RB25#0	21.30	19.15	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.62	20.27	38.45	PASS
				RB1#13	21.97	19.82	38.45	PASS
				RB1#24	21.72	19.57	38.45	PASS
			LCH	RB12#0	20.37	18.22	38.45	PASS
				RB12#6	21.16	19.01	38.45	PASS
		5М		RB12#13	19.95	17.80	38.45	PASS
				RB25#0	21.06	18.91	38.45	PASS
				RB1#0	22.28	20.13	38.45	PASS
			МСН	RB1#13	21.33	19.18	38.45	PASS
				RB1#24	20.95	18.80	38.45	PASS
BAND26	LTE/TM2			RB12#0	21.07	18.92	38.45	PASS
				RB12#6	21.16	19.01	38.45	PASS
				RB12#13	20.83	18.68	38.45	PASS
				RB25#0	21.11	18.96	38.45	PASS
				RB1#0	20.84	18.69	38.45	PASS
				RB1#13	21.16	19.01	38.45	PASS
				RB1#24	20.27	18.12	38.45	PASS
			НСН	RB12#0	21.09	18.94	38.45	PASS
				RB12#6	20.63	18.48	38.45	PASS
				RB12#13	20.55	18.40	38.45	PASS
				RB25#0	20.99	18.84	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
	LTE/TM1	10M		RB1#0	23.16	21.81	38.45	PASS
				RB1#25	23.00	20.85	38.45	PASS
			LCH MCH HCH	RB1#49	23.26	21.11	38.45	PASS
BAND26				RB25#0	22.24	20.09	38.45	PASS
				RB25#13	22.53	20.38	38.45	PASS
				RB25#25	21.29	19.14	38.45	PASS
				RB50#0	22.29	20.14	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdic t
				RB1#0	21.77	20.42	38.45	PASS
				RB1#25	21.07	18.92	38.45	PASS
	LTE/TM2	10M	LCH MCH HCH	RB1#49	21.63	19.48	38.45	PASS
BAND26				RB25#0	21.44	19.29	38.45	PASS
				RB25#13	21.19	19.04	38.45	PASS
				RB25#25	20.61	18.46	38.45	PASS
				RB50#0	21.51	19.36	38.45	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd] b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 26	TM1/10M	LCH/MCH/HCH	4.90	13	PASS
	TM2/10M	LCH/MCH/HCH	5.80	13	PASS

PartII - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz





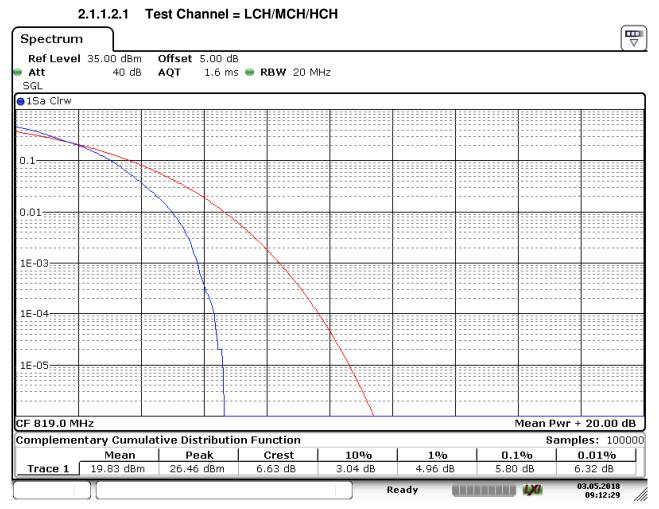
Date: 3.MAY.2018 09:11:37

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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz



Date: 3.MAY.2018 09:12:29



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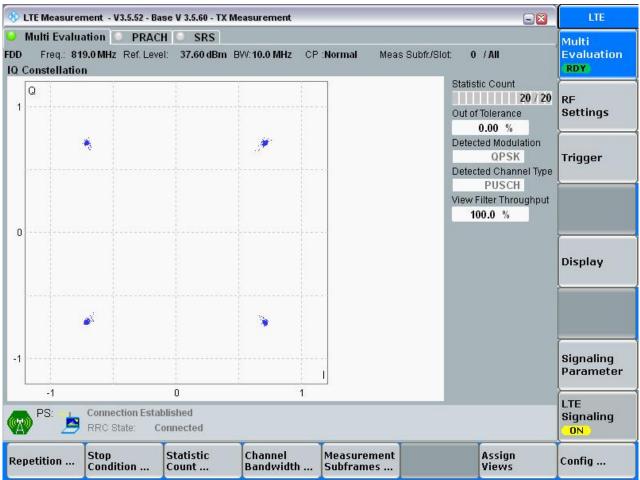
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band26

3.1.1.1 Test Mode = LTE /TM1 10MHz

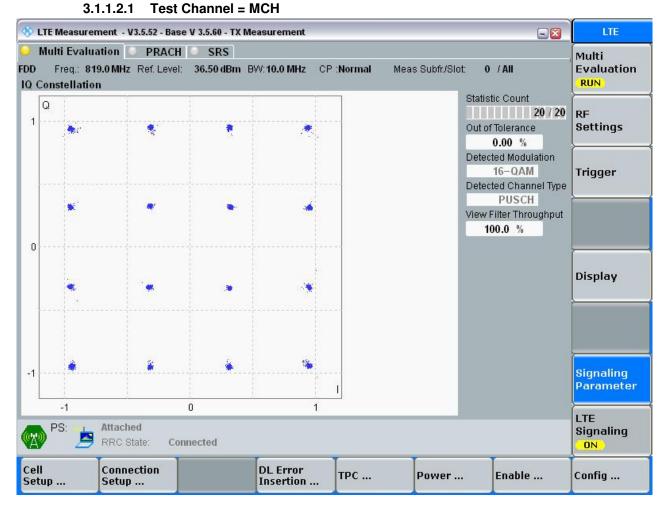
3.1.1.1.1 Test Channel = MCH



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3.1.1.2 Test Mode = LTE /TM2 10MHz



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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.08	1.23	PASS
	TM1/1.4MHz	MCH	1.08	1.25	PASS
		НСН	1.08	1.23	PASS
		LCH	1.08	1.23	PASS
	TM2/1.4MHz	MCH	1.08	1.23	PASS
		НСН	1.08	1.23	PASS
		LCH	2.72	2.95	PASS
	TM1/3MHz	MCH	2.72	3.00	PASS
		НСН	2.72	2.97	PASS
	TM2/3MHz	LCH	2.72	2.95	PASS
Band 26		MCH	2.72	2.97	PASS
		НСН	2.72	2.96	PASS
		LCH	4.48	4.78	PASS
	TM1/5MHz	MCH	4.48	4.81	PASS
		НСН	4.49	4.84	PASS
		LCH	4.48	4.79	PASS
	TM2/5MHz	MCH	4.49	4.82	PASS
		НСН	4.49	4.81	PASS
	TM1/10MHz	LCH/MCH/HCH	8.91	9.48	PASS
	TM2/10MHz	LCH/MCH/HCH	8.89	9.46	PASS



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PartII – Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band26

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

	4.1.1.1.1	Test Cha	nnel = L	СН					
Spectru	m								
Ref Leve Att SGL	l 29.00 dBm 40 dB	Offset S SWT		RBW 30 k VBW 300 k		e Auto Sweep			
⊖1Rm Max									
						D1[1]			1.48 dE
20 dBm—						Occ Bw			23180 MHz 15085 MHz
						M1[1]			17.15 dBm
10 dBm—	D1 9.510 c	lBm 	T the Art May	un physically	Malamantapatr	ration and the state of the second	1	814. 	08860 MHz
0 dBm			1			· ¥			
-10 dBm—		M	1						
-20 dBm—	02 -1	6.490 dBm - 7					N		
20 d0		. When					"NULL .		
-30 UBIII-	quantubal	W WHAT WHAT					hynn	the many printer and	boll with the special post
-40 dBm—	ddo condit - contra								
-50 dBm—									
-60 dBm—									
50 abii									
CF 814.7	MHz				01 pts			 Spa	n 3.0 MHz
	I II					Ready		<u> </u>)1.05.2018 06:12:33

Date: 1.MAY.2018 06:12:33

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Spectrun	n							
Ref Level Att SGL	29.00 dBm 40 dB	Offset e SWT	5.00 dB RB 1 s VB	W 30 kHz W 300 kHz	Mode Auto	Sweep		
😑 1 Rm Max								
20 dBm					D1[1 Occ F M1[1	Bw	1.084915	1.18 dB 270 MHz 085 MHz 6.83 dBm
- 10 dBm	D1 9.720 d	 Bm 	T Jupphonerrow	mpy-manuel-ma	electroburne fully out		818.37	960 MHz
0 dBm								
-10 dBm——		N	1					
-20 dBm—	D2 -10	5.280 dBm				14 Unit of the state of the sta	alluftergerater softward and	
-20 dBm ։ուստուսոր -30 dBm	the and the second s	·					ս ։	minhapolichipadh
-40 dBm								
-50 dBm								
-60 dBm								
CF 819.0 N	∣ ∕IHz	<u> </u>		1001	pts		Span :	3.0 MHz
					Read	dy and a	. 01.0	5.2018 5:14:23

4.1.1.1.2 Test Channel = MCH

Date: 1.MAY.2018 06:14:24



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Spectrun	n								
Ref Level Att SGL	29.00 dBm 40 dB	Offset 9 SWT		₩ 30 kHz ₩ 300 kHz	Mode A	uto Sweep			X
⊖1Rm Max									
20 dBm					0	L[1] CC BW 1[1]		1.0879	0.67 dB 23480 MHz 12088 MHz 16.51 dBm
10.dBm	D1 9.150 d	 Bm======							68560 MHz
0 dBm	51 9.130 u		Tanningala	where the second second	-part April-Aritan	nanahimanitz K			
-10 dBm—	D2 -16	M, 5.850 dBm ",	l l				1		
-20 dBm "ለማቀት በቀቀለበታታለው	mphilipping						Wy wedney wh	the monthly and	htst ^{ur} utural met der
-40 dBm									
-50 dBm—									
-60 dBm—									
CF 823.3 M	↓ MHz			1001	pts			Spa	n 3.0 MHz
					· .	eady			1.05.2018 06:17:08

4.1.1.1.3 Test Channel = HCH

Date: 1.MAY.2018 06:17:09

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	4.1.1.2.1	Test Cha	nnel = LCH	1					
Spectru	m								
Ref Leve	l 29.00 dBm	Offset 9	5.00 dB RB	W 30 kHz					
Att SGL	40 dB	● SWT	15 VE	300 kHz	Mode A	uto Sweep			
⊖1Rm Ma×									
					D	1[1]			-0.27 dB
00 JD									23180 MHz
20 dBm—						CC BW			18082 MHz
					M	1[1]			17.63 dBm
<u>10 dBm—</u>	≠D1 8.770 d	lBm	Τ1	the how belley and a	Lank rational and some	A MALAPLANE OF	1	814.	08260 MHz
			Annualing	h-manufaran d		analabha waail 5			
0 dBm									
			1			}			
-10 dBm—			1						
10 0.011		M	J.				հլ.		
00 40	D2 -1	7.230 dBm 🕂							
-20 dBm—		^{الل} س					The second		munithellenations
-30 dBm—	ماروللورين وم	- Month March					- Whyter	and the state of the second	
Aller Martin	helper helper and the property of the								monthellerendered
-40 dBm—									
-50 dBm—									
00 00									
-60 dBm—									
-60 UBIII—									
CF 814.7	H MHz	+		1001	pts	+	1	+ Spa	n 3.0 MHz
(Ready)1.05.2018
L						icau,			06:11:18

4.1.1.2 Test Mode = LTE/TM2 1.4MHz

Date: 1.MAY.2018 06:11:18



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Spectrun	n								
Ref Level Att SGL	29.00 dBm 40 dB	Offset 9 SWT		W 30 kHz W 300 kHz	Mode A	uto Sweep			
😑 1Rm Max									
20 dBm						L[1]			0.57 dB 23180 MHz
						cc Bw 1[1]		-	15085 MHz 16.78 dBm 38860 MHz
10 dBm	D1 8.680 dI	Bm 	T Huberhapphalad V	x-harennyahaannya	Melenthehener	tratranant ²		010.	30000 1112
0 dBm									
-10 dBm—	D0 17	M					21		
-20 dBm	U2 -17	140 dBm					Walnum	verandapart	
nyoongioikin _{oona}	փանուս փ լ								Connect Martine Contraction of the Contraction of t
-40 dBm									
-50 dBm——									
-60 dBm——									
CF 819.0 N	MHz	i	il	1001	pts	<u> </u>	t	Spa	n 3.0 MHz
					я (eady		1/0	1.05.2018 06:15:21

4.1.1.2.2 Test Channel = MCH

Date: 1.MAY.2018 06:15:21

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Spectrum	ı)								₽
Ref Level Att SGL	29.00 dBm 40 dB	Offset e SWT		BW 30 kHz 'BW 300 kHz	Mode A	uto Sweep			
⊖1Rm Max									
					D	1[1]		1.3	1.45 dB 23480 MHz
20 dBm					o	CC BW		1.0849	15085 MHz
					M	11[1]		-	18.57 dBm
10 dBm								822.	68260 MHz
	D1 8.340 c	18m	T jedhavridentalitt V	Mullunum Monthal	howay	huhuhharnut 2			
0 dBm									
-10 dBm——		Г Г				1	8 1		
-20 dBm—		- 7.660 dBm					Nu.		
and the second	^{to not} the second second	Hulphannikti					Un hybrid and a graph of a	March Manuscrip	Maluximentingupullik
-40 dBm									
-50 dBm									
-60 dBm—									
CF 823.3 N	111-7			1001	ntc				n 3.0 MHz
				1001					
						Ready		LXI	1.05.2018 06:16:20

4.1.1.2.3 Test Channel = HCH

Date: 1.MAY.2018 06:16:20



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	4.1.1.3.1	Test Cha	nnel = LC	H						
Spectru	m									
Ref Leve Att SGL	1 29.00 dBm 40 dB	Offset SWT		RBW : VBW	100 kHz 1 MHz	Mode A	uto Sweep			
⊖1Rm Ma×	{	•								
20 dBm—						o	1[1] cc Bw		2.7212	0.04 dB 94910 MHz 78721 MHz
10 dBm-	-D1 10.550	dBm=====					1[1]	No. TO		15.00 dBm 02550 MHz
0 dBm			ally marked and a second	wight with the second sec	hisen filstad	, langer of the first of the fi				
-10 dBm—	D2 -1!	5.450 dBm-								
-20 dBm—		1								
-30 dBm—	godrowy maliphilited and have							- marc	and the second second	galadagaashoodahadaa
-40 dBm—										
-50 dBm—										
-60 dBm—										
CF 815.5	MHz		•	-1	1001	pts			Spa	n 6.0 MHz
) F	teady		1 ,X0	01.05.2018 06:20:32 //

4.1.1.3 Test Mode = LTE/TM1 3MHz

Date: 1.MAY.2018 06:20:33



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Spectrun	n								
Ref Level Att SGL	29.00 dBm 40 dB	Offset e SWT	5.00 dB RBW 1 s VBV	/ 100 kHz / 1 MHz	Mode A	uto Sweep			`
⊖1Rm Max									
20 dBm						L[1] CC BW			1.59 dB 00300 MHz 78721 MHz
10 dBm	D1 9,960 d	Bm		La cara and habeds	М	1[1]	au au	-	17.24 dBm 48350 MHz
0 dBm	51 9,960 a	The second secon	al-holp-alaran warran and		an far an an far an	and a second	¥2		
-10 dBm									
		M1 5.040 ∎Bm—							
-30 dBm	lourneydeuroder	Would					Wither	ann an the second s	month
-40 dBm									
-50 dBm									
-60 dBm									
CF 819.0 M	MHz	I		1001	pts		i	Spa	n 6.0 MHz
					я (eady		1/0)1.05.2018 06:19:09

4.1.1.3.2 Test Channel = MCH

Date: 1.MAY.2018 06:19:10

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Spectrun	n										
Ref Level Att SGL			Offset SWT	5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode A	uto Sweep			`
😑 1 Rm Max											
20 dBm							o	1[1] cc Bw 1[1]		2.7152	-0.32 dB 96700 MHz 84715 MHz 14.93 dBm
10 dBm	D1 10.2	DO dB	m 	Addressant	marchen	والمتحدث والمستحد والمستحد	1 Harrison and a state of the second			821.	00750 MHz
0 dBm											
-10 dBm	D2	-15.8	M 00 dBm-								
-20 dBm—									<u> </u>		
-30 dBm	auhuwyhyhyhyk	ururur	vv ^u						Marin	hubble	where where we wanted
-40 dBm											
-50 dBm											
-60 dBm											
CF 822.5 N	MHz			1		1001	pts			Spa	n 6.0 MHz
							F	Ready		1 /0	01.05.2018 06:23:23

4.1.1.3.3 Test Channel = HCH

Date: 1.MAY.2018 06:23:23

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	4.1.1.4.1	Test Ch	annel = L	.CH						_
Spectru	m									
Ref Leve Att SGL	l 29.00 dBm 40 dB	Offset e SWT	5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode .	Auto Sweep			X
⊖1Rm Max										
						C	01[1]		2	0.77 dB 94910 MHz
20 dBm—							Dec Bw			84715 MHz
						P	41[1]			17.47 dBm
10 dBm—	D1 9.390 c	1 1 1	- manual man	- Autopennet	MUUNALLAN	and a stand of the	mar and the second	uning 2	814.	02550 MHz
0 dBm		Ţ								
-10 dBm—								\square		
-20 dBm—	D2 -1	6.610 dom-								
								he hurry	- head-and and a second	na subparated
-30 aBm— Այստերիներիների	www.www.									· · · · · · · · · · · · · · · · · · ·
-40 dBm—										
-50 dBm—										
-60 dBm—										
CF 815.5	MHz				1001	<u> </u>				n 6.0 MHz
							Ready		LX0	01.05.2018 06:21:28

4.1.1.4 Test Mode = LTE/TM2 3MHz

Date: 1.MAY.2018 06:21:28



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Spectrun	n												
Ref Level Att SGL			Offs ● SW		5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode 4	Auto Sweep				*
😑 1 Rm Max													
20 dBm)1[1])cc Bw				-0.85 dB 97300 MHz 78721 MHz
10 dBm									11[1]				17.01 dBm 51350 MHz
0 dBm	D1 9.	040 dE	3m	¥	an Mahanananananananananananananananananana	hter to construct the second	millappunter	en an	tolenand to an interfaction of	www.T2			
-10 dBm													
-20 dBm—			.960 đế										
undunud huud -30 dBm	HTT WWW	www.w	northold the								William	ชามHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	monument
-40 dBm—													
-50 dBm—													
-60 dBm													
CF 819.0 M	MHz						1001	pts				Spa	n 6.0 MHz
									Ready			LV0)1.05.2018 06:18:14

4.1.1.4.2 Test Channel = MCH

Date: 1.MAY.2018 06:18:15

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Spectrun	n										
Ref Level Att SGL	29.00 dBm 40 dB	•		5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode /	∖uto Sweep			
●1Rm Max											
20 dBm								01[1]			-0.60 dB 95500 MHz
)cc Bw 11[1]		-	84715 MHz 16.52 dBm
10 dBm	D1 9.090 d	Bm		Moundar	Malanansley	Male and All and an a	unio al la contraction de la contraction	manderstellan	а . . Т2	821.	01950 MHz
0 dBm											
-10 dBm			M£								
-20 dBm—	D2 -10	+	1								
-30 dBm	terpresentation	ANN	and a card						1 mar	on all was a second of the sec	Marking Marking Marking
SO GBII											
-40 dBm											
-50 dBm—											
-60 dBm											
CF 822.5 N	ИНZ					1001	pts	•		Spa	n 6.0 MHz
								Ready		4,70)1.05.2018 06:22:40

4.1.1.4.3 Test Channel = HCH

Date: 1.MAY.2018 06:22:41



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	4.1.1.5.1	Test Cha	annel = LCH						
Spectru	m								
Ref Leve	el 29.00 dBm	Offset	5.00 dB RB N	W 100 kHz					
Att SGL	40 dB	SWT	1s VB '	W 1 MHz	Mode	Auto Sweep			
😑 1Rm Max	<	_							
					I	D1[1]			1.66 dB
20 dBm—						Occ Bw			78100 MHz 24476 MHz
						M1[1]			19.06 dBm
10 dBm—									11200 MHz
	-D1 8.430 d	IBM I	had made and a strate where the state of the	wantereneration	harpen	-yulla ray any and al	nw.		
0 dBm									
-10 dBm—									
	D2 _1	7.570 dBm-					D 1		
-20 dBm—									
		l d					Westman	wanded which have a	than working
-30 dBm—	an many and the second	www.							- mana
	MOLADIO V V								
-40 dBm—									
-50 dBm—									
-60 dBm—									
CF 816.5	MHz	1		1001	pts			 Span	10.0 MHz
[Ready			1.05.2018 06:27:13

4.1.1.5 Test Mode = LTE/TM1 5MHz

Date: 1.MAY.2018 06:27:14



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Spectrun	n										
Ref Level Att SGL		n O B 🕳 S	ffset 9 WT	5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode A	uto Sweep			× *
⊖1Rm Max											
20 dBm							o	1[1] cc Bw		4.4755	-0.53 dB 80800 MHz 24476 MHz
10 dBm	D1 7,870	d8m-	Т1					1[1]	I T2		18.49 dBm 61200 MHz
0 dBm	01 7.870		- January - State - St	wp~~4600°0**80**	www.www.w	hanna airtean	4-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A	htternet-ynpressing			
-10 dBm—			ML								
-20 dBm— എയ ി 8ന്ന്~^~		18.130	Jr .						- CII	-	NL-West Advertises
~@@\d8tth <u>``^^/</u>											
-40 dBm											
-50 dBm—											
-60 dBm											
CF 819.0 M	∔ MHz			 		1001	pts	<u> </u>	+		10.0 MHz
)[]						I	Ready		1/0 (01.05.2018 06:24:31

4.1.1.5.2 Test Channel = MCH

Date: 1.MAY.2018 06:24:31

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	4.1.1.5.5	1031 01							
Spectru	m								(₩
Ref Leve	l 29.00 dBm	Offset	: 5.00 dB RI	3W 100 kHz					
Att	40 dB	🔵 SWT	1 s V I	BW 1 MHz	Mode Au	uto Sweep			
SGL									
⊖1Rm Max	1								
					D1	.[1]			0.39 dB
00 40									83600 MHz
20 dBm—						c Bw			14486 MHz
					MI	l[1]			18.88 dBm
10 dBm—	-D1 7.860 c				,			819.	06200 MHz
	TDI 7.860 C	ивни — — — — — — — — — — — — — — — — — — —	-	m Malader and the second of the	month the second	whilesterman	nud 2		
0 dBm	_								
10 10									
-10 dBm—									
		M2					d 1		
-20 dBm—		8.140 d <mark>8</mark> m-					1		
Ab traces	umulmenter market	Par Addrew and a start					To Menus		
-30 dBm-	uppedressinner)							Haran and the said	anny particulation
40.10									
-40 dBm—									
-50 dBm—									
-60 dBm—									
CF 821.5	MHz	1	ł	1001	. pts		I	Span	10.0 MHz
						eady)1.05.2018
						,			06:28:19

4.1.1.5.3 Test Channel = HCH

Date: 1.MAY.2018 06:28:19



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	4.1.1.6.1	Test Cha	nnel = LCH						
Spectru	ım								
	el 29.00 dBm			W 100 kHz					
Att SGL	40 dB	SWT	15 VB	W 1 MHz	Mode A	uto Sweep.			
😑 1Rm Max	ĸ								
					D	1[1]			0.78 dB
20 dBm—					o	cc Bw			79100 MHz 24476 MHz
						1[1]			18.90 dBm
10 dBm—		1-				1	1	814.	11200 MHz
	—D1 7.400 c	1Bm │⊽∽∽	- Alaman and a start and a start and a start a	under where the	where a free particular	ann an the second second	nnuut2 V		
0 dBm		+							
-10 dBm—									
		M M					D (1		
-20 dBm—		8.600 dBm <u>—</u>							
							"Under the second	WAAT WAARA LA BUR AND	
-30 dBm—	alphandolubrand	on whether a						han an a	approved with
-40 dBm—									
-50 dBm—									
-JU UBIII-									
-60 dBm—									
50 0.0.11									
CF 816.5	MHz			1001	pts				10.0 MHz
[Ready		4/0)1.05.2018 06:26:21

4.1.1.6 Test Mode = LTE/TM2 5MHz

Date: 1.MAY.2018 06:26:22



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Spectrun	n									₽
Ref Level Att SGL	29.00 dBm 40 dB	Offset SWT	5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode A	uto Sweep			
😑 1Rm Max										
20 dBm							1[1] cc Bw			-0.71 dB 81800 MHz 14486 MHz
							1[1]		-	18.68 dBm 60200 MHz
10 dBm	D1 7.390 d	18m						<u> тр</u>	010.	
0 dBm		Ž		,	φ-η-τετείχηματο ι α	1.1000 10040040040	h h h h h h h h h h h h h h h h h h h			
-10 dBm		M						$\left \right $		
-20 dBm—		8.610 dBm								
J.J.Q.,dBm	and and a start and a start and a start and a start a s	hat wanter							Hermonytohenew	briter water and and
-40 dBm——										
-50 dBm—										
-60 dBm										
CF 819.0 N	H MHz	1	1		1001	pts	1	1	+ Span	10.0 MHz
							leady)1.05.2018 06:25:20

4.1.1.6.2 Test Channel = MCH

Date: 1.MAY.2018 06:25:20



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Spectrum	n									
Ref Level Att SGL	29.00 dBm 40 dB	Off e SW		5.00 dB 1 s	RBW VBW	100 kHz 1 MHz	Mode A	uto Sweep		
😑 1 Rm Max										
20 dBm							o	1[1] cc Bw	4.4855	-0.51 dB 80600 MHz 14486 MHz
10 dBm							M	1[1]		18.55 dBm 10200 MHz
0 dBm	D1 6.900 c	18m	- The	her and a second se	n-huissile-Nhori	unanterpaperty	hadhantaadhightead	and an		
-10 dBm		N	1							
-20 dBm—— എമ ാ ർ8്ന്ന് ^{എന്ന} ്		9.100 d	Bm=						TIMA WAR WAR	
_{ഗി} മിനൻ Bm									#"1000051.JAyr = 6.440 your 4.j Yo	WW WWW WARNAW
-40 dBm										
-50 dBm										
-60 dBm										
CF 821.5 M	ИНZ					1001	pts		Span	10.0 MHz
							F	teady	1/0	01.05.2018 06:29:21

4.1.1.6.3 Test Channel = HCH

Date: 1.MAY.2018 06:29:20



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	4.1.1.7.1	Test Ch	annel =			H				_
Spectrun	n									
Att SGL	29.00 dBm 40 dB	Offset S SWT	5.00 dB 1 s	RBW VBW	200 kHz 2 MHz	Mode /	Auto Sweep			, ,
⊖1Rm Max	1									
						C	01[1]			-0.18 dB 9.4840 MHz
20 dBm——						c	Dec Bw			88911 MHz
						N	41[1]			18.30 dBm
10 dBm	D1 8.110 c						1		814	4.2650 MHz
	01 0.1100	T 11101	mondening	and also at a second	b-fine and an	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		nut 2		
0 dBm		+ +						+		
		1 (
-10 dBm—		+						+		
		MI						D1		
-20 dBm—		7.890 dBm-						+		
		J. M.						New Section		
-30 dBm—	Angengen the	- All and Sport all all and a sport all all all all all all all all all al						· · · · · · · · · · · · · · · · · · ·	unless the starting of the	······································
markankerter	,									
-40 dBm										
r -										
-50 dBm—										
-60 dBm—										
05.040.5	<u> </u>				1001				<u> </u>	
CF 819.0	MHZ				1001			_		20.0 MHz
	一月						Ready			01.05.2018 06:31:10 //

4.1.1.7 Test Mode = LTE/TM1 10MHz

Date: 1.MAY.2018 06:31:10



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Spectrum Ref Level 29.00 dBm Offset 5.00 dB RBW 200 kHz	(₩
Ref Level 29.00 dBm Offset 5.00 dB RBW 200 kHz	<u>`</u>
Att 40 dB 🖶 SWT 1 s VBW 2 MHz Mode Auto Sweep SGL	
IRm Max	
D1[1] 0. 9.464(77 dB
20 dBm Occ Bw 8.891108893	
M1[1] -19.11	dBm
10 dBm 814.2650) MHz
D1 7.440 dBm T1 T2 T2	
0 dBm	
-10 dBm	
-20 dBm D2 -18,560 dBm	
-30 dBm	
-30 dBm	-
All and a second s	
-40 dBm-	
-50 dBm	
-60 dBm	
CF 819.0 MHz 1001 pts Span 20.0	MHz
) (01.05.20 06:30:	18

4.1.1.8 Test Mode = LTE/TM2 10MHz

Date: 1.MAY.2018 06:30:24



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5 Emission Mask

5.1 For LTE

5.1.1 Test Band = LTE band26

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB#0

Ref Level 27.00 dBm Offset 5.00 dB RBW 20 kHz Att 40 dB SWT 1 s VBW 100 kHz Mode Auto Sweep 1Rm Max Limit Check PASS	
1Rm Max Limit Check 20 dbm 10 dBm	
Limit Check PASS 20 dbme Emission Mask PASS 10 dBm 10	
20 dbm Emission Mask PASS	
10 dBm	
10 dBm	
10 dBm	
0 dBm	
O dBm	
-10 dBm	
Emission Mask	
-20 dBm	
-30 dBm	
-40 dBm	
-50 dBm	
-50 dBm	
50 dB million line and a second	
-50 dBm	when
-70 dBm	
CF 819.0 MHz 1001 pts Span 20.0 MI	Ιz

Date: 3.MAY.2018 02:35:57



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5.1	.1.1.1.2 Te									_
Spectrun	n									
Ref Level	27.00 dBm	Of	fset 5	.00 dB 🥌 R	. BW 20 kH	z				
Att	40 dB	● SV	ΥT	1 s 👄 🗸	' BW 100 kH	z Mode /	Auto Sweep			
😑 1 Rm Max										
Limit (Check .			PA	SS					
20 d <mark>bin<mark>e E</mark></mark>	mission Ma	sk		PA	SS					
10 40										
10 dBm										
			personal	7						
0 dBm			┨──┤	-						
-10 dBm—										
Emission Ma	sk		117							
-20 dBm—			II I						<u> </u>	
-30 dBm										
-50 abiii		س	/	hu						
-40 dBm		WWWW		h w www						
-+0 4011		ſ								
	لالهم ا	(huld						
-50 dBm—					hower					ununukotyongtadijustis
ED de munit	manu				With	Mederation				
u759.dBm ^{wyM}						^{™ የተ} ነፃቢ _ጦ ነላ	Maryould water of the	here in the second second	Munduluman	onunderly which with
-70 dBm									L	
CF 819.0 M	 MHz	1			1001	nts			<u> </u>	20.0 MHz
					1001					3.05.2018
Ĺ						Mea	suring		444	02:36:16

5.1.1.1.1.2 Test RB=6RB

Date: 3.MAY.2018 02:36:16



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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB ₹ Spectrum Ref Level 27.00 dBm Offset 5.00 dB 🔵 RBW 20 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ●1Rm Max Limit Check PASS 20 dbine Emission Mask PASS ľ1 10 dBm-0 dBm--10 dBm-Emission Mask -20 dBm--30 dBm--40 dBm--50 dBm-Anner -6Qud&pp.... -70 dBm-CF 819.0 MHz 1001 pts Span 20.0 MHz 03.05.2018 Measuring... 02:39:01

Date: 3.MAY.2018 02:39:01



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5.1	.1.1.2.2 Te	51 11		2								_
Spectrun	n]											
Ref Level	27.00 dBm	Of	f fset 5	.00 dB 🥌 R	BW	20 kH:	z					
Att	40 dB			1 s 👄 🗸		.00 kH:	z Mode /	Auto Sweep)			
😑 1 Rm Max												
Limit (PA	SS							
20 d <mark>bine E</mark>	mission Ma	δk		PA	<u>8</u> 5							
10 dBm												
								(phalmaking			
0 dBm												
-10 dBm—												
Emission Ma	sk		1									
-20 dBm—			1							<u> </u>		
-30 dBm												
-30 UBIII								h		L M		
-40 dBm—								- ANHAN		<u> \</u>		
								and the second sec		1	w _L	
-50 dBm——							1. Mangley Mark	P			Multiply of the second	
-60 dBm	maturalisa	halid Mhur	whentenad	Manyumaning	utoger-and	un man	Underland				olly alkowdry	human with para
k		A CARE L	Tera coa									, v (
-70 dBm—												
CF 819.0 M	MHz					1001	pts				Span	20.0 MHz
							Mea	suring			4/6 0	3.05.2018 02:39:23

5.1.1.1.2.2 Test RB=6RB

Date: 3.MAY.2018 02:39:23



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5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB#0

Spectrum								
Ref Level 27.00 dBm		00 dB 😑 RE						`
	e swt	1 s 👄 ۷	3W 100 kH:	z Mode /	Auto Sweep			
●1Rm Max								
Limit Check		PAS						
20 dbine Emission Ma	ask	PAS	S					
10 dBm	n							
0 dBm	+ + +							
-10 dBm								
	┼── ┃\\							
Emission Mask								
-20 dBm	+ + +					<u> </u>		
		u						
-30 dBm								
	1 / 4							
40 dB								
-40 dBm								
	1 7 4	1						
-50 dBm		$\left\{ \cdots \right\}$						
. Mr Maria	10 Martin	hurunnon						
-60 dBmbler			www.					
-50 dBm				manally and the server	alandarwallikalaen	hologithe	windle male that	- Habels Anna alam 14
-70 dBm	+ +							
CF 819.0 MHz	· · · · · · · · ·		1001	pts			Span	20.0 MHz
				Mea	suring		100	03.05.2018
								02:35:27

Date: 3.MAY.2018 02:35:27

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5.1	.1.2.1.2 10										
Spectrun	n]										
Ref Level	27.00 dBm	Of	fset 5	.00 dB 🥌 R	. BW 20 kH	z					
Att	40 dB	e sv	Т	1 s 👄 V	' BW 100 kH	z Mode /	Auto Sweep				
😑 1Rm Max											
Limit (PA	88						
20 d <mark>bine E</mark>	mission Ma	sk		РА	8 S						
10 dBm——											
			Moberla	ry -							
0 dBm											
-10 dBm—											
Emission Ma	l										
-20 dBm—											
-20 0011											
-30 dBm—				4							
		J. J.		"hu							
-40 dBm—		J.									
		ľ		Yuu .							
-50 dBm	سلح ل	1		শু							
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₁-60,₫₿᠓ᡟᡟ ^{ᡣ44}							hypothypothypothypothypothypothypothypot	menyther	upunuh	particlanauru	phendelippersonal
											handdigenessen
-70 dBm—											
CF 819.0 M	MHz				1001	pts				Span	20.0 MHz
						Mea	suring			4/// 0	3.05.2018 02:36:34
										-	02:36:34

5.1.1.2.1.2 Test RB=6RB

Date: 3.MAY.2018 02:36:34



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5.1.1.2.2 Test Channel = HCH

Spectrur	n									E
Ref Level	27.00 dBm	Offset 5	5.00 dB 🥃 R	BW 20 kH:	z					(•
Att	40 dB	e swt	1 s 🔵 V	BW 100 kH:	z Mode /	Auto Sweep				
⊖1Rm Max										
Limit			PA							
20 dbin <u>e E</u>	mission Ma	5K	PA	55						
10 dBm							М			
0 dBm——										
-10 dBm										
Emission Ma	jek									
-20 dBm										
-20 ubiii—										
-30 dBm—						n n				
							1			
-40 dBm—										
-50 dBm—						h	V	- Hall		
					N . word	month had		J.	wall the how when he	
60 dBm	June of the state	ynuunuunuh	where the second	er.Holenhautronhord	Harder of Gallow 1				which have a feat	HAL + MWW HOW HAL
-70 dBm										
CF 819.01	⊥ MHz			1001	pts		I		Span	20.0 MHz

Date: 3.MAY.2018 02:37:36



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5.1	.1.2.2.2 10	51 11		2							_
Spectrun	n]										[₩
Ref Level	27.00 dBm	Of	f fset 5	.00 dB 🥌 R	BW 20 kł	Ηz					
Att	40 dB				' BW 100 kł	Hz Mode /	Auto Sweep	1			
●1Rm Max							•				
Limit 0				PA	SS						
20 d <mark>eine E</mark>	mission Ma	sk		PA	88						
10 40											
10 dBm——											
							6	America			
0 dBm——											
-10 dBm											
Emission Ma	sk		1								
-20 dBm—											
-30 dBm											
-30 ubiii									L.		
							War		why .		
-40 dBm—							N		<u> </u>		
							at the			k i	
-50 dBm——							ph .			- Million	
						undar willar				Wybelly and	
-60 dBm	at a bat a scalidara at t			not the state of the	w. ta. Increative kite/	untraguintariation				ંગઅવધ	huromoniquidada
to all the second	altallen on arria	ullad or	upor com	aunterskillin villen herens	haiman 1001						I «M. P.«
-70 dBm—											
CF 819.0 N	 //L/>				100	l pts					20.0 MHz
					100		_	_			
						Mea	suring			4/4	3.05.2018 02:37:13

5.1.1.2.2.2 Test RB=6RB

Date: 3.MAY.2018 02:37:14



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5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB#0

Spectrum								
Ref Level 27.00 dBn	n Offset S	5.00 dB 😑 R	BW 20 kH	z				
	B 👄 SWT	1 s 👄 V	' BW 100 kH	z Mode	Auto Sweep			
●1Rm Max								
Limit Check		PA						
20 dbine Emission M	ask	PA	SS					
10 dBm	h							
10 0.011								
0 -10								
0 dBm								
	1 11							
-10 dBm								
Emission Mask								
-20 dBm	┥							
		0						
-30 dBm	+							
-40 dBm								
-+0 abin	-							
	/ %		d.	И				
-50 dBm	. Id	Mulhinger 1	M	Λ.				
where we have	and all and	·~~~	man	[}				
-50 dBm			What when	U U Naturation (M. J.	Mr. Pashadan	ليست المراجلي والمراجع	derec Hartenne 1 0	polypharwykalanaktirnagi
				. 01 00000	di N H0 ionm(H0,Π0	d 18 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	na andiriha adilitat	t albaan - tanaaa a dalb
-70 dBm								
CF 819.0 MHz	1		1001	. pts	1	1	Span	20.0 MHz
					suring			3.05.2018
								02:40:39

Date: 3.MAY.2018 02:40:39

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5.1	.1.3.1.2 Te	SINC	DEIDE	1D						
Spectrun	n]									
Ref Level	27.00 dBm	Of	fset 5	5.00 dB 🥌 R	:BW 20 kH	z				
Att	40 dB	● SV	T	1 s 👄 🗸	'BW 100 kH	z Mode /	Auto Sweep			
⊖1Rm Max										
Limit 0	Sheck			PA	8S					
20 d <mark>bin<mark>e E</mark>l</mark>	mission Ma	sk		РА	88					
10 dBm										
0 dBm			Appendent	waydorithawdiwry						
-10 dBm—										
Emission Ma	sk									
-20 dBm—										
-30 dBm—			}							
-40 dBm	100444brah ortente		ļ		hange white ward age	Mudu				
	Juntiford					uter and				
-50 dBm—	We					with the second	hughingh.		hand the stand of	
" -€®"d Bm—							"Hallahalla	hypography and	an and the subscript	Monderman
-70 dBm—										
CF 819.0 M	MHz			1	1001	pts	1	1	Spar	20.0 MHz
][]					Mea	suring		1 , 1,70	03.05.2018 02:41:01

5 1 1 3 1 2 Test BB-15BB

Date: 3.MAY.2018 02:41:02



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5.1.1.3.2 Test Channel = HCH

5.1	1.1.3.2.1 Te	st RB=1R	B#14						_
Spectrur	n]								
Ref Level	27.00 dBm	Offset	5.00 dB 😑 R	BW 20 kH	z				`
Att	40 dB	e swt	1 s 👄 ٧	'BW 100 kH	lz Mode /	Auto Sweep			
⊖1Rm Max									
Limit	Check		PA	SS					
20 d <mark>bine E</mark>	mission Ma	sk	PA	SS					
10 dBm							- 1		
0 dBm									
-10 dBm—									
Emission Ma	ISK								
-20 dBm—		11							
						n			
-30 dBm—									
-40 dBm—									
				N			1		
-50 dBm—				<u> </u>			<u> </u>		
					۳.	here and here	W	Auner work with	
-60 dBm					unple Lyrul			www.y	ALL INCOMENTS
- MARINA MARINA PARA	unoversite training the second	phypolicaliterationality	Aprilia and the All and the second	rigen with the	առով				added for the set
-70 dBm—									
CF 819.0	 MLI-7			1001	nte				20.0 MHz
CL 813'0				1001			_		
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Date: 3.MAY.2018 02:42:49



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5.1	.1.3.2.2 10	SI ND=	IJND							
Spectrun	n]									
Ref Level	27.00 dBm	Offse	et 5.00 dB 👄 R	BW 20 kH	z					
Att	40 dB	SWT		BW 100 kH	z Mode /	Auto Sweep				
😑 1 Rm Max										
Limit (Sheck		PA	SS						
20 d <mark>bin<u>e E</u></mark>	mission Ma	δk	PA	SS						
10 dBm										
10 UBIII										
0 dBm						Alexandred and a graph of	electronlyg			
-10 dBm—										
Emission Ma	sk									
-20 dBm—						[
-30 dBm										
10.10					. All			human		
-40 aBm				West	y white with the second			. W.	M. A. Wall Mapping	
				, pullinger						
-50 dBm—				JAN MARY						May May Market
			WW							May Malen
-60 dBm	and the Association of the Assoc		norman and a strain and a strain a st							upuyy.
a na ana ang ang ang ang ang ang ang ang	where every set of the									
-70 dBm			norman and a second							
CF 819.0 M	⊥ MHz	I		1001	pts				Span	20.0 MHz
	Ì									3.05.2018
L						suring			4	02:43:21

5.1.1.3.2.2 Test RB=15RB

Date: 3.MAY.2018 02:43:22



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5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB#0

Spectrum		540						
Ref Level 27.00 dBm		5.00 dB 👄 R						
	SWT	1 s 👄 V	BW 100 kH	z Mode /	Auto Sweep			
●1Rm Max	1				1		[1
Limit Check		PA						
20 d <mark>bine Emission Ma</mark>	5K	PA	55					
10 dBm	l M							
0 dBm								
o ubiii								
-10 dBm								
Emission Mask								
-20 dBm								
		H.						
-30 dBm		h h						
-40 dBm								
-40 0011								
			н					
-50 dBm		Muda .	<mark>∦</mark>	Å				
-59-48pportertration	May all and a second second	Hunder winger	16 a	$(\{ \} \}$				
-60.dBmonthat			Wyrun hyteral	Manager Marker M	Har in North and	a Kin tanala daka d	Let be considered by	
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-70 dBm								
CF 819.0 MHz			1001	nts			 Snan	20.0 MHz
			1001			>	-	13.05.2018
				Mea	suring			02:41:35

Date: 3.MAY.2018 02:41:35

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5.1	.1.4.1.2 Te		DEIDE	סו							_
Spectrun	n]										
Ref Level	27.00 dBm	Of	fset 5	5.00 dB 😑 R	88W 20 kH	z					
Att	40 dB	● SV	T	1 s 👄 V	'BW 100 kH	z Mode /	Auto Sweep				
⊖1Rm Max											
Limit (PA	8 8						
20 d <mark>bine E</mark>	mission Ma	sk		РА	88						
10 dBm											
0 dBm			prostatilita	etheredenger							
-10 dBm—											
Emission Ma	sk										
-20 dBm—											
-30 dBm—											
-40 dBm		and the state of t			1001						
	watching					Ц _{ин}					
-50 dBm-	, Mart					" HUMDING	Maria				
_{ស្តី} ស្ត្ររធBm—							· Marineyplan	- William	belitheren	underhalmenter	MAMINU MANA
									·	~ 0 vi 0 ¶ *	ه م. ایر وارم، مورد ا
-70 dBm—											
CF 819.0 N	MHz				1001	pts					
][]					Mea	suring			1/0 0	3.05.2018 02:41:19

5.1.1.4.1.2 Test RB=15RB

Date: 3.MAY.2018 02:41:18



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5.1.1.4.2 Test Channel = HCH

Spectrun	n											ſ₩
Ref Level	27.00 dBn	1 C	Offset	5.00 dB	🔵 RBW	' 20 k⊢	lz					(·
Att	40 dB	8 🕳 S	SWT	1 s	🔵 VBW	′ 100 k⊢	z Mode	Auto Sweep				
⊖1Rm Max												
Limit (PASS							
20 db <mark>in<mark>e E</mark></mark>	mission M	ask_	_		PASS							
10 dBm		_	_						н			
0 dBm												
-10 dBm—		-		_					$\left \right\rangle$			
Emission Ma	isk											
-20 dBm—												
-30 dBm—								<u>њ</u>				
-40 dBm—												
-50 dBm						A						
						A	My June	f however	N ^H	hand	and the state of t	
-60 dBm Արծանաներաներ	aport and an	mlunum	month	hyphyphythe	when when which	dunahad	March-10 marks				1 0000	mapping the first and
-70 dBm—												
CF 819.0	MHz					1001	l pts				Span	20.0 MHz

Date: 3.MAY.2018 02:42:18



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Spectrun	n n	51110	- 1511	D								
-	27.00 dBm	Off	set 5	.00 dB 👄 F	RBW	20 kH	z					(``
Att	40 dB	e sw	л	1 s 😑 ۷	/BW	100 kH	z Mode /	Auto Sweep				
😑 1 Rm Max												,
Limit C	theck			PA	SS							
20 d <mark>bine El</mark>	mission Ma	<u>sk</u>		РА	ss							
10 dBm												
0 dBm								Altrounderplotentioner	MARA			
-10 dBm									× I			
Emission Ma	sk											
-20 dBm—										<u>[</u>		
-30 dBm												
-40 dBm) Manadalaya	PH-QA	
-50 dBm					. Halles	approximite					Muhuuuu Minu	Willing March March
-60 dBm-	the second states and the se	hydrawie	1 mar	oodlatogetalliket	av.							- meny marked
-70 dBm—												
CF 819.0 N	-40 dBm											
	Measuring 03.05.2018 02:43:48											

5.1.1.4.2.2 Test RB=15RB

Date: 3.MAY.2018 02:43:48



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Test Mode = LTE/TM1 5MHz

5.1.1.4.3 Test Channel = LCH

5.1.1.4.3.1 Test RB=1RB#0

Spectrum								
Ref Level 27.00 c Att 40	lBm Offset . dB 👄 SWT	5.00 dB 👄 RB	W 50 kH W 200 kH		Auto Sweep			
1Rm Max	ub 🥃 3141	13 🖉 🕫	199 200 KI	iz moue	чито эмеер			
Limit Check		PAS	S					
20 dbine Emission	Mask	PAS	s					
	Δ.							
10 dBm								
0 dBm								
-10 dBm								
mission Mask								
-20 dBm			٥					
-30 dBm								
	L		Ц					
-40 dBm		4			1	ι,		
	P		JAN 1		l n l			
-50 dBm	Mar Moral and all	Jow mark town	whether the					
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-50 dBm					יי עזייע ין ערוי	A subset of refer of speed of	hond a lla anna a	h- ^{III}
-70 dBm								
CF 819.0 MHz			1001	. pts			Span	20.0 MHz
				Mea	suring		1/0 ()3.05.2018 02:46:58

Date: 3.MAY.2018 02:46:59

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5.1	.1.4.3.2 Te	SINC	э=2эг	1D							_
Spectrun	n]										
Ref Level	27.00 dBm	Off	fset 5	5.00 dB 😑 R	BW 50 kł	Ηz					
Att	40 dB	😑 SW	/T	1 s 👄 🗸	BW 200 kł	Hz Mode /	Auto Sweep				
●1Rm Clrw											
Limit (theck			PA	SS						
20 d <mark>bine E</mark>	mission Ma	sk		PA	55						
10 dBm											
0 dBm			- Andrew	agenter while a grant	www.uphprang						
-10 dBm—											
Emission Ma	sk							l l			
-20 dBm—											
			1			ų –					
-30 dBm—		und	ſ			habraulphysel					
-40 dBm	Martin Martin Martin	un u n					Hundrad and and and and and and and and and a	н.			
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-50 dBm—									and the first state of the second state of the	Warren	
world										. a we what he was	Why marked warder and
-60 dBm—											
-70 dBm—											
CF 819.0 M	F 819.0 MHz Span 20.0 MHz Span 20.0 MHz										
							suring				3.05.2018
Ĺ							isuring				02:47:57

5.1.1.4.3.2 Test RB=25RB

Date: 3.MAY.2018 02:47:58



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5.1.1.4.4 Test Channel = HCH

5.1	.1.4.4.1 Te	st RB=1R	B#24						
Spectrun	n]								
Ref Level	27.00 dBm	Offset 9	5.00 dB 😑 R	. BW 50 kH	z				`
Att	40 dB	e swt	1 s 👄 V	' BW 200 kH	z Mode /	Auto Sweep			
⊖1Rm Max									
Limit (Check		PA	8 5					
20 d <mark>bin<mark>e E</mark></mark>	mission Ma	sk	PA	5S					
							8		
10 dBm							<u> </u>		
10 000									
o 10									
0 dBm——									
-10 dBm—									
Emission Ma	isk								
-20 dBm—					-				
					Λ				
-30 dBm—									
00 0000									
40 - 40									
-40 dBm—)	Γ.		7		L.		
		(Νn		14		<u>\</u>		
-50 dBm—					Million Low	And Brankson March	,	maller and man	h Λ
			$ \langle I \rangle _{1}$	Remand					Whent' man
-60 dBm	maninguanalisma	senter and a stranger	where we wanted	a Microsoft Land					. (1000
-70 dBm									
CF 819.0 (MH7			1001	nts			 Qnan	20.0 MHz
01 019.01				1001				•	
					Mea	suring			02:46:26

Date: 3.MAY.2018 02:46:26



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Spectrun	n	1031		-25110								Print
Ref Level Att	27.00 dE	3m dB 👄		et 5.00 de r 1 :	B e RBW		Mode Au	uto S'	weep			Print Screen
⊖1Rm Max												Jereen
Limit C 20 den e Er		lask			SS SS							
10 dBm												Device Setup
0 dBm						populationarily	Hamelinhormelypology	kudan				Device
-10 dBm-												
Emission Ma -20 dBm	sk					ļ						Colors
-30 dBm									1			Comment
-40 dBm			<u>م</u>	huthaut with with	dampapping and have				human ha	andyddiad _{olany} ydd	Hungenhilly	
-50 dBm	prover filments to a love	alon for lot	allow								When	
-60 dBm	Part of the											Install Printer
-70 dBm												
CF 819.0 M	MHz				1001	l pts				Span 2	0.0 MHz	
)[•	Meas	uring.	(03.05.2018 02:44:49

5.1.1.4.4.2 Test RB=25RB

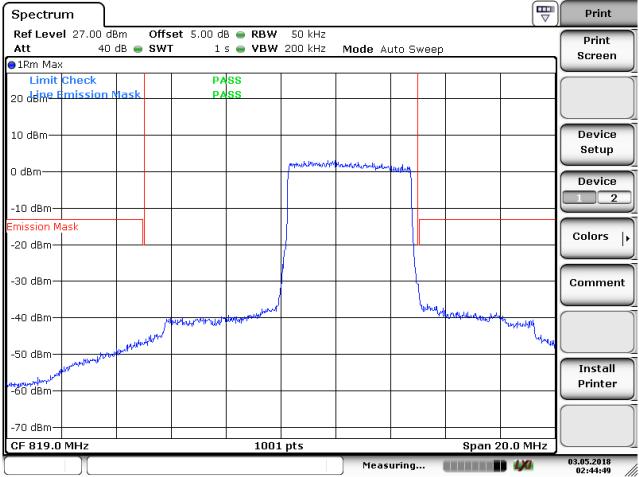
Date: 3.MAY.2018 02:44:50



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5.1.1.5 Test Mode = LTE/TM2 5MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB#0



Date: 3.MAY.2018 02:44:50



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5.1	.1.5.1.2 Te		5=256	סו							
Spectrun	n]										
Ref Level	27.00 dBm	Of	fset 5	5.00 dB 😑 R	. BW 50 kH	Ηz					`
Att	40 dB	● SV	T	1 s 👄 🗸	' BW 200 kH	lz Mode /	Auto Sweep				
⊖1Rm Max											
Limit (Sheck			PA	SS						
20 d <mark>bine E</mark> l	mission Ma	δk		PA	SS						
10 dBm											
0 dBm			puttion	mon all light and a start of the	weitromethe delighter						
-10 dBm—											
Emission Ma	sk										
-20 dBm											
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-60 dBm—											
-70 dBm—											
CF 819.0 M	CF 819.0 MHz 1001 pts Span 20.0 MHz										
	Measuring ## 03.05.2018 02:47:39										

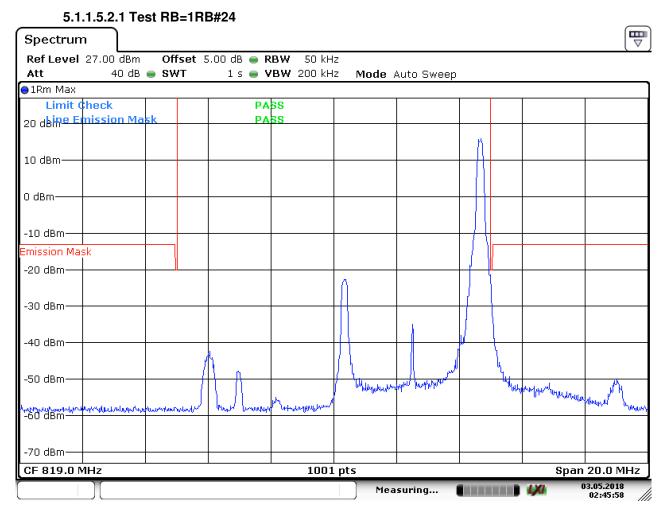
5.1.1.5.1.2 Test RB=25RB

Date: 3.MAY.2018 02:47:39



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5.1.1.5.2 Test Channel = HCH



Date: 3.MAY.2018 02:45:59



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Spectrum	1 1								
Ref Level	27.00 dBm	Offset	t 5.00 dB 👄	RBW 50 ki	Ηz				(•
Att		e swt		VBW 200 ki	Hz Mode	Auto Swee	р		
⊖1Rm Max									
Limit 0	heck			ASS					
20 d <mark>bin<mark>e E</mark>r</mark>	mission Ma	δk	Р	ASS					
10 dBm									
0 dBm			_		Munichangeral	hand the second second	wardowy		
-10 dBm									
Emission Mas	sk								
-20 dBm									
-30 dBm—							+		
-40 dBm			and the second	and have a strategy adverse	/		- Lun	when the war and the second	· ••!.
		المدين	1 and the work of the second						all approved where
-50 dBm	a following the star	and the second							"materia
-60 dBm	net the second		Madamana						
-70 dBm—									
CF 819.0 M	/IHz	I	1	100	1 pts	I		Spar	1 20.0 MHz
][]				Mea	suring			03.05.2018 02:45:41

5.1.1.5.2.2 Test RB=25RB

Date: 3.MAY.2018 02:45:42



5.1.1.6 Test Mode = LTE/TM1 10MHz

SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

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5.1.1.6.1 Test Channel = LCH 5.1.1.6.1.1 Test RB=1RB#0 ₩ Spectrum Ref Level 27.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ●1Rm Max Limit Check PASS 20 dbine Emission Ma PASS 10 dBm-0 dBm--10 dBm-Emission Mask -20 dBm--30 dBm--40 dBm-Uhut -50 dBm[.] mand when -60 dBm--70 dBm-Span 20.0 MHz CF 819.0 MHz 1001 pts 03.05.2018 Measuring... 02:51:55

Date: 3.MAY.2018 02:51:55



Report No.: SZEM180600492001 Page: 60 of 70

Spectrum	.1.0.1.2 10	SUND	_301									Ē
												(▽
Ref Level Att	27.00 dBm			5.00 dB 👄 R								
Att	40 aB	😑 SW	Т	1 s 🛑 V	BW 3	SUU KHZ	Mode /	Auto Sweep	1			
-					.				1	· · · ·	1	1
Limit C	ineck			PA PA								
20 dBM E	mission Ma	SK		PA	55							-
10 dBm												
0.40				المعرفة والمستروم	www.	~~~	and all and a second of the	when when	n.m.			
0 dBm			Mart	providence -								
-10 dBm——			-						+			
Emission Mas	sk											
-20 dBm—												
			1						{			
-30 dBm—									{			
-30 UBIII										۲,		
	white marken	and a start								a more		
40 dBm	atter a										Wink all flided to mapping	م ەمم ەرىكىكەركەر
and the second												
≪50 dBm—												
-60 dBm												
-00 ubiii/												
-70 dBm—												
CF 819.0 M	/Hz	_				1001 p	its				Span	20.0 MHz
	Υ						Mea	suring			444	03.05.2018 02:49:44 //
· · · · ·								_				02:49:44 //

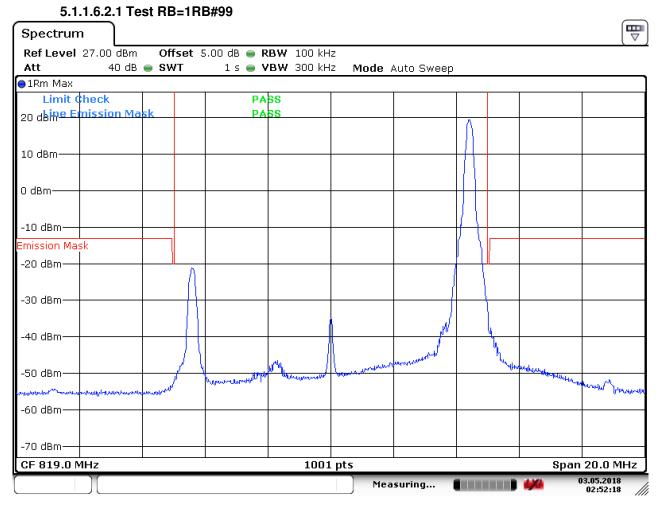
5.1.1.6.1.2 Test RB=50RB

Date: 3.MAY.2018 02:49:44



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5.1.1.6.2 Test Channel = HCH



Date: 3.MAY.2018 02:52:18



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Spectrun	n											
Ref Level	27.00 dBm	Off	fset 5	5.00 dB	e RB	∦ 100 k⊢	z					
Att	40 dB	● S₩	/T	1 s	e VB'	W 300 k⊢	lz Mode /	Auto Sweep				
😑 1Rm Max												
Limit C	theck				PASS							
20 d <mark>bine El</mark>	mission Ma	sk			PASS							
10 dBm												
					~~~~							
0 dBm——			1						$\square$			
-10 dBm—									$\left  \right $			
Emission Ma	sk											
-20 dBm—			Ļ_						$\left  \right $			
-30 dBm										L		
		m	/							6		
-40 dBm											the state of the s	and the second sec
-50 dBm												
-30 ubiii-												
-60 dBm——												
-70 dBm—												
CF 819.0 N	/IHz					1001	l pts				Span	20.0 MHz
							Mea	suring			4/4	03.05.2018 02:50:11

#### 5.1.1.6.2.2 Test RB=50RB

Date: 3.MAY.2018 02:50:11



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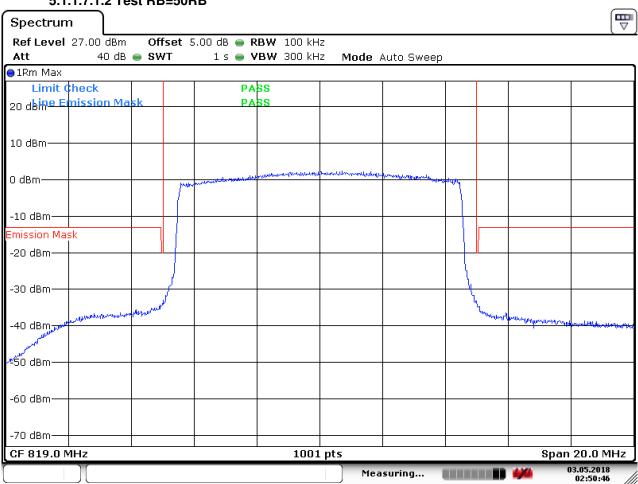
5.1.1.7.1.1 Test RB=1RB#0											
Spectrum											
Ref Level 27	7.00 dBm	Off	set 5	.00 dB 😑 R	<b>.BW</b> 100 kH	z					
Att	40 dB	e sw	T	1 s 😑 V	<b>'BW</b> 300 kH	z Mode /	Auto Sweep				
⊖1Rm Max											
Limit Che				PA							
20 dbin <mark>e Emi</mark> s	ssion Ma	sk		PA	SS						
10 dBm											
0 dBm											
-10 dBm			+								
Emission Mask			1								
-20 dBm		u		4				Λ	u		
-30 dBm											
-40 dBm		<del></del>		- Mu				$\mathbb{H}$			
-50 dBm	where and and the	Count		1. Williandowerth	ant many and a second	-	My	44	<b>1</b>		A
and many a start and a start									Manne	and many por	and have
-60 dBm											
-70 dBm											
CF 819.0 MH	z				1001	pts	·	·		Span	20.0 MHz
	[					) Mea	suring (			<b>440</b> 0	3.05.2018 02:51:34

### 5.1.1.7 Test Mode = LTE/TM2 10MHz

Date: 3.MAY.2018 02:51:34



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5.1.1.7.1.2 Test RB=50RB

Date: 3.MAY.2018 02:50:47



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#### 5.1.1.7.2 Test Channel = HCH

Spectrum										
Ref Level 23	7.00 dBm	Offset 5	.00 dB 🔵 R	<b>BW</b> 100 kH	z					
Att	40 dB 🥃	SWT	1 s 🔵 🗸	<b>BW</b> 300 kH	z Mode	Auto Sweep				
∋1Rm Max										
Limit Ch	eck		PA							
20 de ine Emi	ssion Mask	<u>ــــــــــــــــــــــــــــــــــــ</u>	PA	SS						
							LA -			
10 dBm							Ш			
0 dBm										
							11 \			
-10 dBm							1 t			
mission Mask							1 1			
-20 dBm						-	+			+
		n I				l r				
-30 dBm——										
		- 111				l í				
-40 dBm		-				N				
io dom		- 141		(				"h		
-50 dBm		J \		ullutur. 1	Conversion 14-10-100	Mahment and and		a free and	Manaza	
		, where he had	magnetolonidy	ul Multimenen	Carry Colorest				water and a second	mounty .
man and a start was	n Anther Marchandens	المراجع								(address)
-60 dBm						1				1
-70 dBm——							-			+
CF 819.0 MH	lz	I		1001	pts	•			Spar	20.0 MHz

Date: 3.MAY.2018 02:52:43

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Spectrum	n											
Ref Level	27.00 dBm	Offs	<b>et</b> 5.00	) dB 😑 R	BW	100 kH	z					
Att	40 dB	SWT		1 s 👄 ۷	'ВW	300 kH	z Mode /	Auto Sweep				
😑 1Rm Max												
Limit 0	theck			PA	SS							
20 d <mark>bin^{e Er}</mark>	mission Ma	sk		РА	SS							
10 dBm												
						. III sala	manhamana					
0 dBm			fullioner	للمين عيد هي اينار <del>يسي</del> ن.	anglistetraji		- Januara M	Mrhundhaldsoch.	a			
-10 dBm			+									
Emission Ma	sk											
-20 dBm			$\downarrow$									
-30 dBm									4	l		
	- And Barrow and Andrews	muguel								4 Horan	unnallangutraanayaj	
-40 dBm												l malaige o day and day
″≝ŚO dBm——												
-60 dBm												
-70 dBm												
CF 819.0 N	MHz					1001	pts					20.0 MHz
							Mea	suring			4/4	3.05.2018 02:51:11

#### 5.1.1.7.2.2 Test RB=50RB

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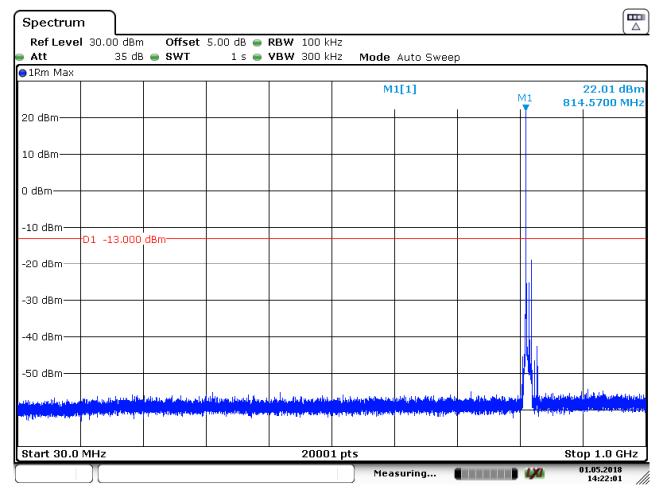
#### **Spurious Emission at Antenna Terminal** 6

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

### 6.1 For LTE

#### 6.1.1.1 Test Mode = LTE / TM1 10MHz RB1#0 6.1.1.1.1 Test Channel = LCH/MCH/HCH



Date: 1.MAY.2018 14:22:01

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Spectrun	n								
Ref Leve	l 30.00 dBr	n Offset	5.00 dB 👄	<b>RBW</b> 100 k	Hz				
🔵 Att	35 di	B 👄 SWT	1 s 👄	<b>VBW</b> 300 k	Hz Mode	Auto Sweej	C		
⊖1Rm Max									
					M	1[1]		-	48.79 dBm
						1		2.4	43750 GHz
20 dBm——									
10 dBm									
0 dBm									
o abiii									
-10 dBm—	D1 -13.000								
	01 -13,000								
-20 dBm									
-30 dBm—									
-40 dBm									
-40 0811									
	M1								
-50 dBm—				alog sundanalis	مالاً الروالة المراجد	Treport of the part			
مطلبا سرايليو	ما والمساور والما وحاصل حد	والمعطية والمعلية والمعارية		and the second statement of th	Contraction of the second second	القائدي مطرح	المائية والمائية والمائية		hillion and the second second
ang pang kang kang kang kang kang kang kang k	perfection parameters	n an	Management of the state of the state	A Manager a surface of the	1			n an	T TO ANY ANY A
							وروي ويعقبه والطراط	the first shares of a	
Start 1.0 C	iHz			2000	1 pts			· ·	10.0 GHz
[	Д				Mea	suring		<b>1)0</b>	1.05.2018 14:22:38

Date: 1.MAY.2018 14:22:38

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### 7 Field Strength of Spurious Radiation

### 7.1 For LTE

### 7.1.1 Test Band = LTE band26

### 7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

7.1.1.1.1 Test Channel = LCH/MCH/HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.280000	-77.11	-13.00	64.11	Vertical
144.006667	-72.33	-13.00	59.33	Vertical
1629.000000	-55.30	-13.00	42.30	Vertical
2443.500000	-55.72	-13.00	42.72	Vertical
3258.050000	-66.16	-13.00	53.16	Vertical
8960.500000	-63.31	-13.00	50.31	Vertical
62.713333	-77.50	-13.00	64.50	Horizontal
144.006667	-74.91	-13.00	61.91	Horizontal
2443.500000	-56.58	-13.00	43.58	Horizontal
3258.050000	-67.12	-13.00	54.12	Horizontal
4887.275000	-65.68	-13.00	52.68	Horizontal
8960.500000	-58.25	-13.00	45.25	Horizontal

### NOTE:

- 1) All modes are tested, but the data presented above is the worst case. The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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### 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26	LTE/TM1 10MHz	LCH/MCH/HCH	TN	VL	3.83	0.00468	PASS
				VN	-1.97	-0.00241	PASS
				VH	-5.04	-0.00615	PASS
	LTE/TM2 10MHz			VL -5.39 -0.00658	-0.00658	PASS	
		LCH/MCH/HCH	ΤN	VN	-6.54	-0.00798	PASS
				VH	-5.19	-0.00633	PASS

### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26	LTE/TM1 10MHz			-30	1.64	0.00200	PASS
				-20	-7.60	-0.00928	PASS
				-10 -6.34 -0.00774	PASS		
		LCH/MCH/HCH		0	7.39	0.00902	PASS
			VN	VN 10 -5.43 -0.0	-0.00663	PASS	
				20	7.22	0.00882	PASS
			-	30	-2.75	-0.00335	PASS
				40	0.03	0.00004	PASS
				50	0.35	0.00043	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26	LTE/TM2 10MHz			-30	0.09	0.00011	PASS
				-20	-1.59	-0.00194	PASS
				-10	8.10	0.00989	PASS
		LCH/MCH/HCH	VN	0	1.58	0.00193	PASS
				10	8.49	0.01037	PASS
				20	8.13	0.00993	PASS
				30	0 -1.49 -0.00	-0.00182	PASS
			-	40	4.87	0.00595	PASS
				50	7.52	0.00919	PASS

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