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# Appendix B

E-UTRA Band 7

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### 1 Effective (Isotropic) Radiated Power Output Data

#### Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 7

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	22.1	20.4	33.00	PASS
				1RB#12	22.09	20.39	33.00	PASS
				1RB#24	22.1	20.4	33.00	PASS
			LCH	12RB#0	21.11	19.41	33.00	PASS
				12RB#6	21.12	19.42	33.00	PASS
				12RB#13	21.17	19.47	33.00	PASS
				25RB#0	21.15	19.45	33.00	PASS
				1RB#0	22.21	20.51	33.00	PASS
	LTE/TM1 5M			1RB#12 22.2		20.5	33.00	PASS
		5M	МСН	1RB#24	22.21	20.51	33.00	PASS
BAND 7				12RB#0	21.2	19.5	33.00	PASS
				12RB#6	21.2	19.5	33.00	PASS
				12RB#13	21.29	19.59	33.00	PASS
				25RB#0	21.25	19.55	33.00	PASS
				1RB#0	22.39	20.69	33.00	PASS
				1RB#12	22.4	20.7	33.00	PASS
				1RB#24	22.42	20.72	33.00	PASS
			НСН	12RB#0	21.37	19.67	33.00	PASS
				12RB#6	21.37	19.67	33.00	PASS
				12RB#13	21.47	19.77	33.00	PASS
				25RB#0	21.43	19.73	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	21.11	19.41	33.00	PASS
				1RB#12	21.08	19.38	33.00	PASS
				1RB#24	21.11	19.41	33.00	PASS
			LCH	12RB#0	20.08	18.38	33.00	PASS
				12RB#6	20.07	18.37	33.00	PASS
				12RB#13	20.16	18.46	33.00	PASS
				25RB#0	20.13	18.43	33.00	PASS
	LTE/TM2	5M		1RB#0	21.43	19.73	33.00	PASS
				1RB#12	21.41	19.71	33.00	PASS
			МСН	1RB#24	21.42	19.72	33.00	PASS
BAND 7				12RB#0	20.22	18.52	33.00	PASS
				12RB#6	20.22	18.52	33.00	PASS
				12RB#13	20.31	18.61	33.00	PASS
				25RB#0	20.23	18.53	33.00	PASS
				1RB#0	21.39	19.69	33.00	PASS
				1RB#12	21.4	19.7	33.00	PASS
				1RB#24	21.44	19.74	33.00	PASS
			НСН	12RB#0	20.36	18.66	33.00	PASS
				12RB#6	20.36	18.66	33.00	PASS
				12RB#13	20.47	18.77	33.00	PASS
				25RB#0	20.46	18.76	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	22.08	20.38	33.00	PASS
				1RB#24	22.08	20.38	33.00	PASS
				1RB#49	22.2	20.5	33.00	PASS
			LCH	25RB#0	21.06	19.36	33.00	PASS
				25RB#12	21.04	19.34	33.00	PASS
				25RB#25	21.18	19.48	33.00	PASS
				50RB#0	21.14	19.44	33.00	PASS
		10M		1RB#0	22.24	20.54	33.00	PASS
	LTE/TM1			1RB#24	22.25	20.55	33.00	PASS
			МСН	1RB#49	22.33	20.63	33.00	PASS
BAND 7				25RB#0	21.18	19.48	33.00	PASS
				25RB#12	21.18	19.48	33.00	PASS
				25RB#25	21.33	19.63	33.00	PASS
				50RB#0	21.24	19.54	33.00	PASS
				1RB#0	22.39	20.69	33.00	PASS
				1RB#24	22.45	20.75	33.00	PASS
				1RB#49	22.55	20.85	33.00	PASS
			НСН	25RB#0	21.39	19.69	33.00	PASS
				25RB#12	21.39	19.69	33.00	PASS
				25RB#25	21.55	19.85	33.00	PASS
				50RB#0	21.47	19.77	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	21.3	19.6	33.00	PASS
				1RB#24	21.29	19.59	33.00	PASS
				1RB#49	21.38	19.68	33.00	PASS
			LCH	25RB#0	20.03	18.33	33.00	PASS
				25RB#12	20.03	18.33	33.00	PASS
				25RB#25	20.15	18.45	33.00	PASS
				50RB#0	20.1	18.4	33.00	PASS
		10M		1RB#0	21.46	19.76	33.00	PASS
	LTE/TM2			1RB#24	21.45	19.75	33.00	PASS
			МСН	1RB#49	21.51	19.81	33.00	PASS
BAND 7				25RB#0	20.2	18.5	33.00	PASS
				25RB#12	20.2	18.5	33.00	PASS
				25RB#25	20.34	18.64	33.00	PASS
				50RB#0	20.27	18.57	33.00	PASS
				1RB#0	21.32	19.62	33.00	PASS
				1RB#24	21.38	19.68	33.00	PASS
				1RB#49	21.48	19.78	33.00	PASS
			НСН	25RB#0	20.42	18.72	33.00	PASS
				25RB#12	20.41	18.71	33.00	PASS
				25RB#25	20.56	18.86	33.00	PASS
				50RB#0	20.46	18.76	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	22.32	20.62	33.00	PASS
				1RB#38	22.16	20.46	33.00	PASS
				1RB#74	22.29	20.59	33.00	PASS
			LCH	36RB#0	21.54	19.84	33.00	PASS
				36RB#18	21.4	19.7	33.00	PASS
				36RB#39	21.5	19.8	33.00	PASS
	LTE/TM1			75RB#0	21.23	19.53	33.00	PASS
		15M		1RB#0	22.41	20.71	33.00	PASS
				1RB#38	22.28	20.58	33.00	PASS
			МСН	1RB#74	22.41	20.71	33.00	PASS
BAND 7				36RB#0	21.31	19.61	33.00	PASS
				36RB#18	21.19	19.49	33.00	PASS
				36RB#39	21.29	19.59	33.00	PASS
				75RB#0	21.36	19.66	33.00	PASS
				1RB#0	22.42	20.72	33.00	PASS
				1RB#38	22.36	20.66	33.00	PASS
				1RB#74	22.49	20.79	33.00	PASS
			HCH	36RB#0	21.61	19.91	33.00	PASS
				36RB#18	21.55	19.85	33.00	PASS
				36RB#39	21.69	19.99	33.00	PASS
				75RB#0	21.53	19.83	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	21.54	19.84	33.00	PASS
				1RB#38	21.41	19.71	33.00	PASS
				1RB#74	21.52	19.82	33.00	PASS
			LCH	36RB#0	21.53	19.83	33.00	PASS
				36RB#18	21.39	19.69	33.00	PASS
				36RB#39	21.5	19.8	33.00	PASS
	LTE/TM2			75RB#0	20.18	18.48	33.00	PASS
		15M		1RB#0	21.32	19.62	33.00	PASS
				1RB#38	21.2	19.5	33.00	PASS
			MCH	1RB#74	21.3	19.6	33.00	PASS
BAND 7				36RB#0	21.32	19.62	33.00	PASS
				36RB#18	21.19	19.49	33.00	PASS
				36RB#39	21.3	19.6	33.00	PASS
				75RB#0	20.31	18.61	33.00	PASS
				1RB#0	21.6	19.9	33.00	PASS
				1RB#38	21.56	19.86	33.00	PASS
				1RB#74	21.68	19.98	33.00	PASS
			HCH	36RB#0	21.61	19.91	33.00	PASS
				36RB#18	21.56	19.86	33.00	PASS
				36RB#39	21.69	19.99	33.00	PASS
				75RB#0	20.44	18.74	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	22.49	20.79	33.00	PASS
				1RB#49	22.25	20.55	33.00	PASS
				1RB#99	22.49	20.79	33.00	PASS
			LCH	50RB#0	21.14	19.44	33.00	PASS
				50RB#25	21.13	19.43	33.00	PASS
				50RB#50	21.09	19.39	33.00	PASS
				100RB#0	21.12	19.42	33.00	PASS
		20M		1RB#0	22.37	20.67	33.00	PASS
	LTE/TM1			1RB#49	22.18	20.48	33.00	PASS
			МСН	1RB#99	22.44	20.74	33.00	PASS
BAND 7				50RB#0	21.23	19.53	33.00	PASS
				50RB#25	21.24	19.54	33.00	PASS
				50RB#50	21.45	19.75	33.00	PASS
				100RB#0	21.37	19.67	33.00	PASS
				1RB#0	22.6	20.9	33.00	PASS
				1RB#49	22.44	20.74	33.00	PASS
				1RB#99	22.74	21.04	33.00	PASS
			НСН	50RB#0	21.6	19.9	33.00	PASS
				50RB#25	21.6	19.9	33.00	PASS
				50RB#50	21.55	19.85	33.00	PASS
				100RB#0	21.58	19.88	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				1RB#0	21.54	19.84	33.00	PASS
				1RB#49	21.36	19.66	33.00	PASS
				1RB#99	21.57	19.87	33.00	PASS
			LCH	50RB#0	20.14	18.44	33.00	PASS
				50RB#25	20.14	18.44	33.00	PASS
				50RB#50	20.11	18.41	33.00	PASS
				100RB#0	20.1	18.4	33.00	PASS
	LTE/TM2	20M		1RB#0	21.47	19.77	33.00	PASS
				1RB#49	21.31	19.61	33.00	PASS
			МСН	1RB#99	21.51	19.81	33.00	PASS
BAND 7				50RB#0	20.29	18.59	33.00	PASS
				50RB#25	20.28	18.58	33.00	PASS
				50RB#50	20.49	18.79	33.00	PASS
				100RB#0	20.35	18.65	33.00	PASS
				1RB#0	21.59	19.89	33.00	PASS
				1RB#49	21.47	19.77	33.00	PASS
				1RB#99	21.7	20	33.00	PASS
			НСН	50RB#0	20.59	18.89	33.00	PASS
				50RB#25	20.58	18.88	33.00	PASS
				50RB#50	20.52	18.82	33.00	PASS
				100RB#0	20.56	18.86	33.00	PASS

Note:

- a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,
- EIRP [dBm] = SGP [dBm] Cable Loss [dB] + Gain [dBi] b: SGP=Signal Generator Level



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### 2 Peak-to-Average Ratio

#### Part I - Test Results

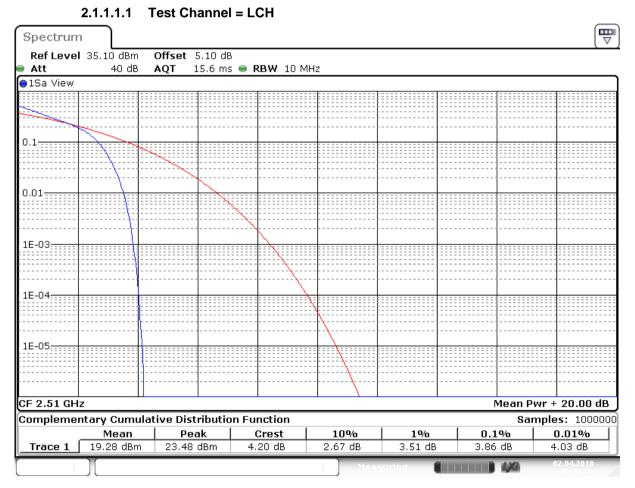
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	3.86	13	PASS
	TM1/20M TM2/20M	MCH	4.14	13	PASS
		НСН	5.77	13	PASS
BAND 7		LCH	5.62	13	PASS
		MCH	5.80	13	PASS
		НСН	5.77	13	PASS

#### Part II - Test Plots

#### 2.1 For LTE

#### 2.1.1 Test Band = LTE BAND 7

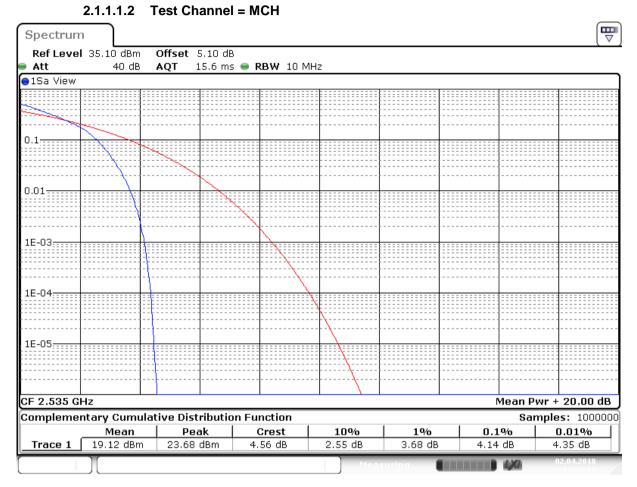
#### 2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz



Date: 2 APR 2018 13:32:46



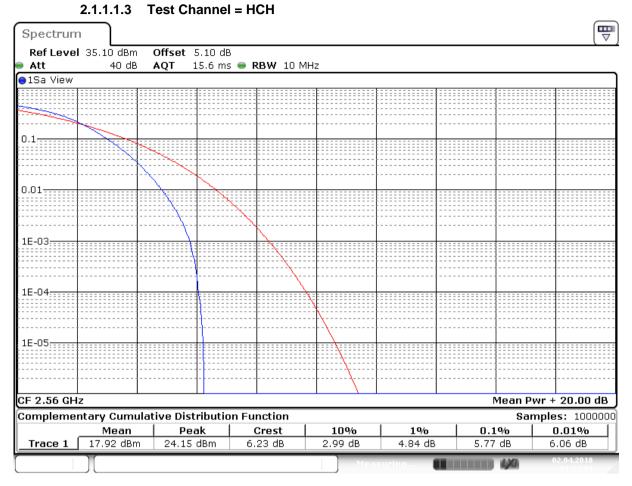
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Date: 2 APR 2018 13:33:21



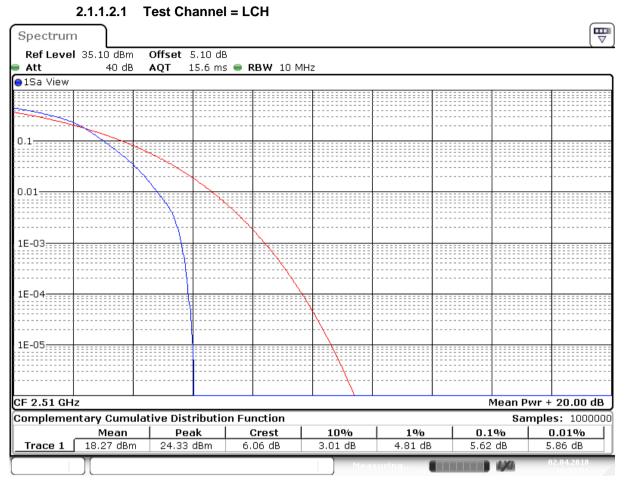
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Date: 2.APR 2018 13:34:03



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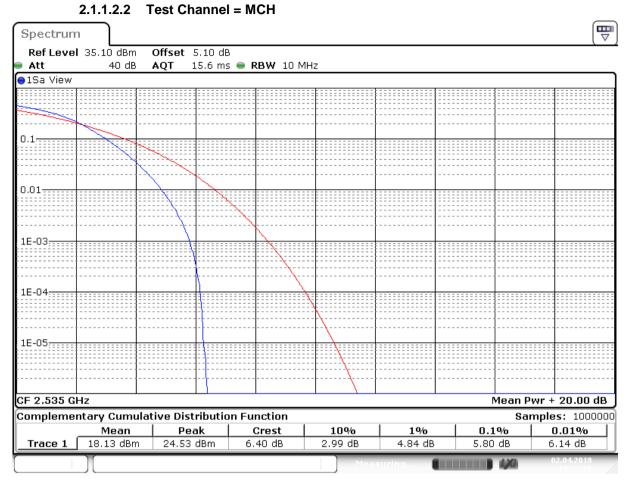


#### 2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

Date: 2.APR 2018 13:32:51



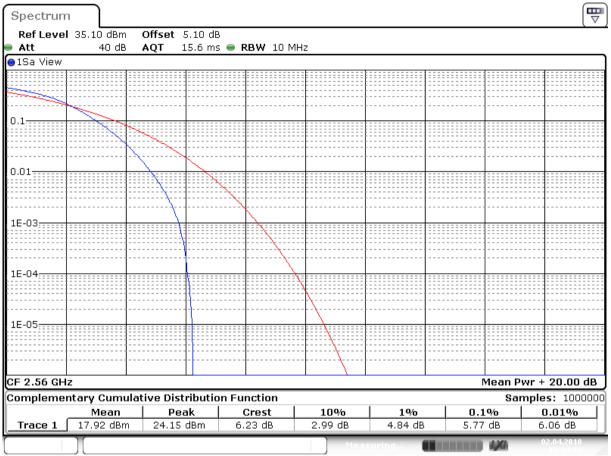
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2.1.1.2.3 Test Channel = HCH

Date: 2 APR 2018 13:34:03



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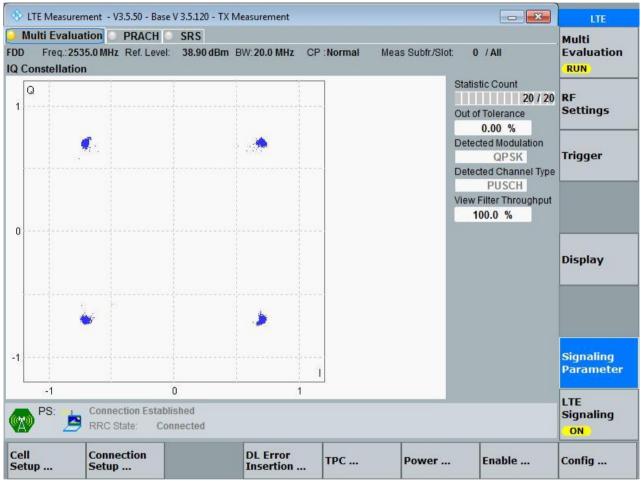
### **3 Modulation Characteristics**

#### 3.1 For LTE

#### 3.1.1 Test Band = LTE BAND 7

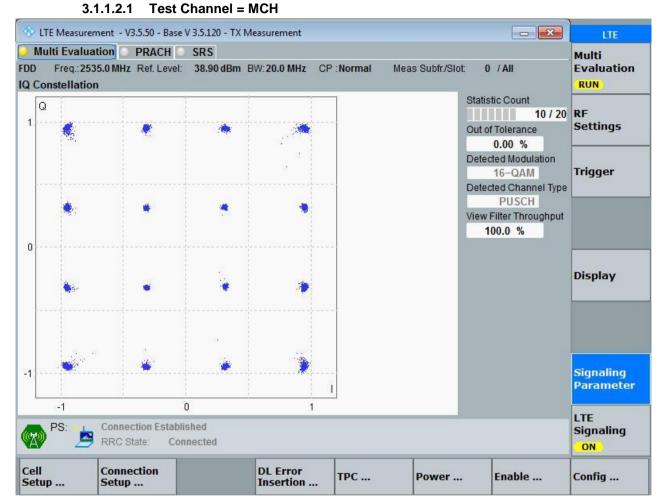
#### 3.1.1.1 Test Mode = LTE /TM1 20MHz

#### 3.1.1.1.1 Test Channel = MCH





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#### 3.1.1.2 Test Mode = LTE /TM2 20MHz



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### 4 Bandwidth

#### Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	4.476	4.800	PASS
	TM1/5MHz	MCH	4.466	4.740	PASS
		HCH	4.476	4.810	PASS
		LCH	4.476	4.760	PASS
	TM2/ 5MHz	MCH	4.466	4.820	PASS
		HCH	4.486	4.710	PASS
		LCH	8.951	9.320	PASS
	TM1/10MHz	MCH	8.931	9.300	PASS
		HCH	8.951	9.320	PASS
		LCH	8.931	9.300	PASS
	TM2/ 10MHz	MCH	8.931	9.300	PASS
		HCH	8.951	9.320	PASS
BAND 7	TM1/ 15MHz	LCH	13.457	14.310	PASS
		MCH	13.487	14.280	PASS
		HCH	13.516	14.280	PASS
		LCH	13.487	14.280	PASS
	TM2/ 15MHz	MCH	13.457	14.280	PASS
		HCH	13.516	14.280	PASS
		LCH	17.862	18.800	PASS
	TM1/20MHz	MCH	17.942	18.840	PASS
		HCH	17.942	18.800	PASS
		LCH	17.902	18.760	PASS
	TM2/ 20MHz	MCH	17.942	18.800	PASS
		HCH	17.942	18.800	PASS



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#### 4.1 For LTE

#### 4.1.1 Test Band = LTE BAND 7

#### 4.1.1.1 Test Mode = LTE/TM1 5MHz

	4.1.1.1	I.1 Test Ch	annel =	LCH					_
Spectrur	n								
Ref Leve	l 24.30	dBm Offset	4.30 dB (	■ <b>RBW</b> 50 kH	Iz				
🗕 Att	3	O dB 👄 SWT	100 ms (	📄 <b>VBW</b> 200 kH	lz <b>Mode</b>	Auto S	weep		
●1Av View									
20 dBm					M	1[1]			6.42 dBm
					_	-			94200 GHz
10 dBm		T1	M1			CC BW	Т2		24476 MHz
0 dBm		yerte	writerstraube	munkhyremedakter	wheelweelweelingthealth	histolydenges	montering		20.56 dBm 11000 GHz
						1		2.000	11000 0112
-10 dBm—									
		мд					МЗ		
- <del>20 dBm</del>	D1 -19.	577 dBm <del>7</del>							
00 d0		Aller					Sw.		
-30 dBm— Աստուստուստություն -40 dBm—	Marmhow	nphu marel					- "	Withmetric war	hat a ch
-40 dBm-									
-50 dBm—						+			
50 JD									
-60 dBm—									
-70 dBm—				_					
CF 2.5025	GHz			1001	pts			Span	10.0 MHz
Marker			1		1				
Type Re		X-value		Y-value	Func	tion	Fu	nction Result	
M1 T1	1	2.5009		6.42 dBr 2.95 dBr		cc Bw		4 4755	24476 MHz
T2	1	2.50020		2.95 dBi 2.88 dBr				7.77552	
M2	1		11 GHz	-20.56 dBr					
M3	1	2.504	91 GHz	-21.11 dBr	n				
	)[				Me a	suring.		144	2.04.2018

Date: 2.APR.2018 12:31:37



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	4	.1.1.1.	2 Test Ch	annel =	= MCH							_
Spect	rum											
Ref L	evel	24.30 d	Bm Offset	4.30 dB	🔵 RBW 50 kH	łz						<b>`</b>
🗎 Att		30	dB 👄 SWT	100 ms	💿 <b>VBW</b> 200 kH	łz	Mode	Auto S	weep			
⊖1Av V	iew											
20 dBm							M1	[1]				6.45 dBm
							_	_				95800 GHz
10 dBm								C BW	М1 🔻 Т	2		34466 MHz
0 dBm-			- Xm	and when the second	Warya Hawkin Arthurd Marta	man	munite		noning	<b>r</b>		20.50 dBm 63000 GHz
о авті–									1	1	2.002	
-10 dBn	n									<u> </u>		
			Mæ							Мз		
-20 dBn	r <del></del> D	1 -19.5	51 dBm 🚽 💻							<u> </u>		
- ab -			J. J. C.							T.		
-30 dBn			and My contra							Weedwell		
. <del></del>	A	mound	for the second s								and with a construction of the	Halp and and a star
000000												A and a second
-50 dBn	n-+-											
60 JP-												
-60 dBn												
-70 dBn	n											
CF 2.5	35 GF	lz			1001	pts					Span	10.0 MHz
Marker	_							. 1				
Туре	Ref	Trc	X-value		Y-value		Funct	ion		Fun	ction Result	
M1 T1		1	2.5369		6.45 dBr 3.90 dBr		0.0	c Bw			4 4655	34466 MHz
T2		1	2.53277		3.70 dBr						T.TUDD.	57700 MIAZ
M2		1		63 GHz	-20.50 dBr							
MЗ		1		37 GHz	-19.86 dBr	n						
,		)(					Meas	uring.			1420	2.04.2018
<u> </u>	1					<u> </u>						

4.1.1.1.2 Test Channel = MCH

Date: 2 APR 2018 12:32:14



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	-	••••••	.5 Test Ch		псп					_
Spect	rum									
Ref L	evel	24.30	dBm Offset	4.30 dB (	🔵 RBW 🛛 50 kHz					
🗕 Att		30	O dB 😑 SWT	100 ms (	🔵 <b>VBW</b> 200 kHz	Mode	Auto S	weep		
<mark>●</mark> 1Av V	'iew									
20 dBm	ı——					M	1[1]			5.78 dBm
										366900 GHz
10 dBm	ı—		T1				10 BW	то		24476 MHz
			July	moutputtyrabul	weeker mound work	May way and a state	Martin	wentering		-21.49 dBm
0 dBm–								l	2.303	509000 GHz
-10 dBn	n									
10 00	"							мз		
-20 dBn	<del>n  </del> c	1 -20.	224 dBm 😽							
			- <sup>1</sup> / <sub>2</sub>					1 2		
-30 dBn	n		- Not					- Water		
		مردوله مردوان	burker almost all						where we we wanted	all and a second
LTHU/CHUA	10									
-50 dBr										
00 dbi	"									
-60 dBn	n——									
-70 dBn	n									
CF 2.5	675 0	Hz				ts			Span	10.0 MHz
Marker										
Туре	Ref	Trc	X-value	• I	Y-value	Funct	tion	Eu	nction Result	+ I
M1		1	2.5686		5.78 dBm	_				
T1		1	2.56526	22 GHz	2.97 dBm	0	c Bw		4.4755	24476 MHz
Т2		1	2.56973		2.40 dBm					
M2		1		09 GHz	-21.49 dBm					
МЗ		1	2.56	99 GHz	-20.39 dBm					
		$\prod$				Mea	suring.		1.420	02.04.2018
								_		

#### 4.1.1.1.3 Test Channel = HCH

Date: 2 APR 2018 12:32:51



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	4	.1.1.2	2.1 Test Ch	annel =	LCH							_
Spectr	um											
Ref Le	evel	24.30	dBm Offset	4.30 dB	🔵 RBW 50 ki	Ηz						
🕳 Att		30	) dB 👄 SWT	100 ms	🔵 <b>VBW</b> 200 kł	Ηz	Mode	Auto S	weep			
😑 1 AV Vie	ew											
20 dBm-							M	1[1]				5.24 dBm
												F71800 GHz
10 dBm-			T1					c Bw	Ma	<u>b</u>		24476 MHz
			- Vin	day or man	your way about the	rm	mundt	Flitcher	mound	7		-22.35 dBm
0 dBm—											2.500	)11000 GHz I
-10 dBm												
10 000										13		
-20 dBm	— b	1 -20.7	756 dBm						'	<u><u> </u></u>		
										Y.		
-30 dBm										- Henryley		
-30 dBm <sup>-14</sup> የታወይጠ	nonally	www.ruliter	April marries							. m	hourself	untrouver theme a
r≇40 uBIII												
-50 dBm												
-60 dBm												
-70 dBm												
CF 2.50	)25 G	Hz	•		1001	pts	5				Spar	10.0 MHz
Marker												
Туре	Ref	Trc	X-value	9	Y-value		Func	ion		Fun	ction Result	t
M1		1	2.5047		5.24 dB							
T1		1	2.50026		2.53 dB		0	C BW			4.4755	24476 MHz
T2		1	2.50473		3.74 dB							
M2 M3		1		11 GHz 87 GHz	-22.35 dB -20.88 dB							
			2.304		-20.00 UB				_			
		Л					Mea				1,7(1	12:31:53

#### 4.1.1.2 Test Mode = LTE/TM2 5MHz

Date:2.APR.2018 12:31:54



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	4		2.2 1051	Channel								_
Spect	rum	J										
	evel	24.30		<b>et</b> 4.30 dB								
🗕 Att		3	0 dB 🕳 SW1	Г 100 ms	😑 VBW 200 kH	Ιz	Mode	Auto S	weep			
<mark>⊝</mark> 1Av V	iew											
20 dBm							M1	[1]				5.39 dBm
												525900 GHz
10 dBm	·			F1				o/Bim	-			i34466 MHz
				Themanue	بالاستاس المعادية والمعادية و	an	www.Ma	1. Auru	T. مىسىلىمىلىرى	2		-21.80 dBm
0 dBm–				1		-	<u> </u>				2.532	259000 GHz
				11						\		
-10 dBn	n											
00 40-	_		M⊉							Мз		
-20 dBn	n-to	1 -20.	612 dBm 🔫							<u> </u>		
-30 dBn			l l							X		
-30 001	"		1 Laubor							mu.		
-40 dBp	n	water	houthand							.04	m hala hala and	alawantundunanya
Mariana												
-50 dBn	n——											
-60 dBn	n											
-70 dBn	n											
CF 2.5	35 GF	łz			1001	pts					Spar	10.0 MHz
Marker						<u> </u>					· · ·	
Туре		Trc	X-va	alue	Y-value		Funct	ion I		Eun	ction Result	t 1
M1	1.01	1		36259 GHz	5.39 dB	m	- unoc			1 411	ocion nosal	-
		1		27722 GHz	4.36 dB		00	C BW			4.4655	34466 MHz
T2		1		72378 GHz	2.79 dB							
M2		1	2.5	53259 GHz	-21.80 dB	m						
M3		1	2.5	53741 GHz	-21.55 dB	m						
		)(					Meas	urina.			10.000	02.04.2018

#### 4.1.1.2.2 Test Channel = MCH

Date: 2 APR 2018 12:32:31



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	4	.1.1.4	2.3 Test Ch	annei =						_
Spect	rum									[₩
Ref L	evel	24.30	dBm Offset	4.30 dB	🔵 RBW – 50 kHz					
🗕 Att		3	O dB 👄 SWT	100 ms	💿 <b>VBW</b> 200 kHz	: M	l <b>ode</b> Auto S	weep		
😑 1AV V	iew									
20 dBm							M1[1]			6.11 dBm
										584100 GHz
10 dBm			T1		<u>M1</u>		OCC BW	Т2		14486 MHz
				www.wyww.h	mountan manage	Junger	M2[1]	mantent		-20.00 dBm
0 dBm-			- i i					1	2.563	514000 GHz
-10 dBr										
10 00	"		мź					MIB		
-20 dBn	n-d	1 -19.	.894 dBm 😽 🕺							
			- M					, Wu		
-30 dBn			- 10					- Mu		
10 10		Junio	por sound by all plant						when and the weather of	
-4PrdBa	Direter to a construction	and the second se							I-Sikveik	a water and the start of the
-50 dBr	n									
-60 dBr	n——									
-70 dBn	n									
CF 2.5	675 G	Hz			1001 p	ts			Spar	10.0 MHz
Marker					•				· · ·	
Туре	Ref	Trc	X-value	, I	Y-value	1	Function	Fu	nction Resul	t l
M1		1	2.5668		6.11 dBm	_				
T1		1	2.56526	22 GHz	2.39 dBm		Occ Bw		4.4855	14486 MHz
Т2		1	2.56974		2.96 dBm	_				
M2		1		14 GHz	-20.00 dBm	_				
МЗ		1	2.569	85 GHz	-20.05 dBm					
							Measuring.		144	02.04.2018
<u> </u>										

#### 4.1.1.2.3 Test Channel = HCH

Date: 2 APR 2018 12:33:08



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	4	.1.1.3	3.1 Test Ch	annel =	LCH							
Spectru	ım											
Ref Lev	/el	25.10	dBm Offset	5.10 dB	🔵 RBW 100 kł	Ηz						
🗕 Att		31	O dB 👄 SWT	100 ms	🕳 <b>VBW</b> 300 ki	Ηz	Mode	Auto S	weep			
●1Av Viet	W											
20 dBm—							M	1[1]				5.11 dBm
20 ubiii—											2.50	42210 GHz
10 dBm—	_							cc Bw	-			48951 MHz
			T1 VA		<b>•</b>	where	for the amount	2[1]	T Marana Mar	7		23.27 dBm
0 dBm—	+						·				2.50	03400 GHz
1.5.15										{		
-10 dBm-												
-20 dBm-			M2						ſ	v <mark>1</mark> 3		
-20 00111	ייך	1 -20,	889 dBm							1		
-30 dBm-	_									<u> </u>		
∿o4@rd8th∺		a markatha	would aberry the							mappe	her warden and the second	a madeira com
∿4®°d8m™	per service	/ <b>(</b>										an march allow
50 JB												
-50 dBm-												
-60 dBm-												
-70 dBm-	+											
CF 2.505	5 GH	lz			1001	nts	5				Span	20.0 MHz
Marker												
	Ref	Trc	X-valu	a	Y-value	1	Funct	tion		Fun	ction Result	
M1		1		21 GHz	5.11 dB	m						
T1		1	2.50052	45 GHz	2.31 dB	m	00	CC BW			8.95104	48951 MHz
T2		1	2.50947	55 GHz	3.03 dB							
M2		1		34 GHz	-23.27 dB							
M3		1	2.509	66 GHz	-22.27 dB	m						
							Mea	suring.			4,40	2.04.2018

#### 4.1.1.3 Test Mode = LTE/TM1 10MHz

Date: 2.APR.2018 12:55:47



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	4.1.1.3	.z rest ch	annei =						_
Spectrum	ı )								
Ref Level Att		lBm Offset I dB 👄 SWT	_	RBW 100 kHz VBW 300 kHz		uto S	weep		
●1Av View									
20 dBm					M1	[1]		0.50	4.98 dBm
10 dBm					Occ 02	: Bw	M1 T2	8.9310	89160 GHz 68931 MHz 21.10 dBm
0 dBm		- Ym	alertennopolani	-himelony,Nohipeloguisaean	hunder have	hand March	-menoperation of		03600 GHz
-10 dBm									
-20 dBm	D1 -21.0	)16_dBm					M3		
-30 dBm									
-40 dBm	www.www.	panin hall stal for all					· Working	Charles and the second second	merelandelinerseeline
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.535 G	Hz				ts			Span	20.0 MHz
Marker				•					
Type   Ref	f   Trc	X-value	e	Y-value	Functi	on	Fun	ction Result	:
M1	1	2.5389	16 GHz	4.98 dBm					
T1	1	2.53054		3.16 dBm	000	BW		8.9310	58931 MHz
T2	1	2.53947		3.83 dBm					
M2	1		36 GHz	-21.10 dBm					
M3	1	2.539	66 GHz	-22.74 dBm					
					Measi	uring.		100	)2.04.2018 12:56:09

#### 4.1.1.3.2 Test Channel = MCH

Date:2.APR.2018 12:56:10



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	4	.1.1.3	.3 Test Ch	annei =	псп						_
Specti	rum	J									
	evel	25.10			● RBW 100 kH						
e Att		30	) dB 👄 SWT	100 ms (	🍯 <b>VBW</b> 300 kH	ΙZ	Mode	Auto S	iweep		
😑 1AV Vi	iew			-							
20 dBm·							M:	L[1]			5.08 dBm
							_	_			26820 GHz
10 dBm·				1	11			C Bw	т2		48951 MHz
			T1 ⊽k	theyroutown	- mound	when	M	2 <b>[1]</b> when the	l ∠ Dubuwahan		21.07 dBm
0 dBm—							· ;		1	2.56	03400 GHz
10.10											
-10 dBm	ד י										
-20 dBm			MP						M3		
-20 000		1 -20.	925 dBm								
-30 dBm	ι		- All -						- <u>\</u>		
			In manual and						March	eventual and the base	
*40 dBn	1		~							mare Markey market	and the recently grade
-50 dBm	ו—ר										
co do -											
-60 dBm											
-70 dBm											
										_	
CF 2.56	65 GH	lz			1001	pts	;			Span	20.0 MHz
Marker											
Туре	Ref		X-value		Y-value	$ \bot$	Funct	ion	Fur	iction Result	:
M1		1	2.5626		5.08 dBi						
T1		1	2.56052		2.27 dBi		00	c Bw		8.9510	48951 MHz
T2 M2		1	2.56947	34 GHZ	2.68 dBi -21.07 dBi						
M2 M3		1		34 GHZ	-21.07 dBi						
			2,309		22.71 00	<u> </u>			_		
L		ا					Mea				12:56:33

#### 4.1.1.3.3 Test Channel = HCH

Date: 2 APR 2018 12:56:33



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	4	.1.1.4	I.1 Test Ch	annel =	LCH							
Spectru	Jm											
Ref Lev	vel	25.10	dBm Offset	5.10 dB 🧉	• RBW 100 kł	Ηz						
🔵 Att		30	D dB 👄 SWT	100 ms 🧉	● <b>VBW</b> 300 kł	Ηz	Mode	Auto S	weep			
😑 1 Av Vie	W											
20 dBm—							M	1[1]				4.51 dBm
20 0011												68580 GHz
10 dBm—	_						M1	C BW				68931 MHz
			T 1	when or storal shared	where and a second second		الم المحمد المحمد الم	2[1]	T2 ™			23.35 dBm
0 dBm—	-										2.50	03600 GHz
-10 dBm-												
-10 uBiii-												
-20 dBm-		1 91	489 dBm						M3			
	ľ	1 -21,							- L			
-30 dBm-	-											
40.40		a salada sa Mila	mullion allow where							Here	monterent which all have	addama a sa
vr40vdBm√												0000
-50 dBm-												
-60 dBm-												
-70 dBm-												
CF 2.50	5 GH	łz			1001	pts	5				Span	20.0 MHz
Marker												
Туре	Ref	Trc	X-value		Y-value		Funct	tion		Fun	tion Result:	
M1		1	2,5068		4.51 dB							
T1		1	2.50054		1.48 dB		00	cc Bw			8.93106	58931 MHz
T2 M2		1	2.50947	55 GHz 36 GHz	2.37 dB -23.35 dB							
M2 M3		1		36 GH2	-23.35 UB -22.65 dB							
			2,309		22.00 00		)	_				2 04 2010
							Mea				4,44	12:55:56

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

Date: 2.APR.2018 12:55:57



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	4	. 1. 1.4.	z rest ch	annei =								_
Spectru	ım											
Ref Lev Att	vel 2		Bm Offset dB <b>e SWT</b>	5.10 dB 100 ms	<ul> <li>RBW 100 ki</li> <li>VBW 300 ki</li> </ul>		Mode	Auto S	weep			
●1Av Vie	W						mouo					
20 dBm—							M1	[1]				4.03 dBm
							0.0	c Bw				331620 GHz 68931 MHz
10 dBm—	+		Т1		191		n a c	1111	т	2		-22.79 dBm
0 dBm				mbronder	handhartonana	hours.	human	- [ - ] ቀላቀት ሁለፈም	whenter	ί.		303600 GHz
-10 dBm—	+											
-20 dBm-	_									<b>4</b> 3		
	Τυ.	1 -21.9	67 dBm 🕇							5		
-30 dBm-	-		- J							*		
-40 dBm-	يالى الم	- MILTON ALLOW	the war with							hunne	and whater ware	anorgen water deligent
	Ĩ											Town-particulation and the
-50 dBm-												
-60 dBm-	_											
-70 dBm—												
CF 2.535	5 GH	z			1001	pts	;				Spar	20.0 MHz
Marker									1			
	Ref	Trc	X-value		Y-value		Funct	ion		Fun	ction Result	<u>t</u>
M1 T1		1	2.5331		4.03 dB 1.64 dB		00	C BW			8 0310	68931 MHz
T2		1	2.53947		1.40 dB		00	,0 0 W			0.9310	00991 1112
M2		1		36 GHz	-22.79 dB							
МЗ		1	2,539	66 GHz	-23.14 dB	m						
(							) Meas	suring.			1,70	02.04.2018

#### 4.1.1.4.2 Test Channel = MCH

Date: 2 APR 2018 12:56:20



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	4	4.1.1.4	I.3 Test Ch	annei =	псп							_
Spect	rum											
	evel	25.10			■ RBW 100 kł							
Att		3	O dB 👄 SWT	100 ms (	🍯 <b>VBW</b> 300 kł	Ηz	Mode	Auto S	weep			
<mark>0</mark> 1Av V	iew											
20 dBm							M	1[1]				3.60 dBm
20 0.0.												538210 GHz
10 dBm	·——				M1			c Bw				48951 MHz
			T1 VZet	and a strend state of a second	whennehwan	in. in.	M) Miterature	2[1]	T2			-22.55 dBm
0 dBm-			- F	100000000	Mathan		<u> </u>				2.50	503400 GHz
10 - 10 -	_								- 1 1			
-10 dBn	n—————											
-20 dBn	n		M2						M	3		
20 001	<u> </u>	)1 -22.	402 dBm 7									
-30 dBn	n——									<u>\</u>		
			al al and a strategy of the							hungeling		
~40ndBn	Newson and	unah hain	0							num	have been been been and	-
-50 dBn	n											
-60 dBn	n											
00 001	"											
-70 dBn	n											
CF 2.5	65.01	17			1001	nte	-					20.0 MHz
Marker		12			1001	pes	,				эраі	1 20.0 MHZ
		1 - 1	× 1			- 1		• •		-		
Type M1	Ref	Trc 1	2.5638		<u>Y-value</u> 3.60 dB		Funct	tion		Fun	ction Result	<u> </u>
T1		1	2.56052		1.51 dB	_		cc Bw			8 0510	48951 MHz
T2		1	2.56947		1.35 dB						0.9010	10001 MI12
M2		1		34 GHz	-22.55 dB							
M3		1		66 GHz	-22.74 dB							
_		)[					] Mar-	currie c			14.36%	02.04.2018
						1	, nea				in particular in the second se	

#### 4.1.1.4.3 Test Channel = HCH

Date: 2 APR 2018 12:56:43



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	4.1.1	.5.1	Test Ch	annel =	= LCH							
Spectrur	n	)										
Ref Leve	el 25.1	0 dBm	Offset	5.10 dB	🔵 RBW 300 k	Hz						
🕳 Att		30 dB	👄 SWT	100 ms	🔵 <b>VBW</b> 1 M	1Hz	Mode	Auto S	weep			
●1Av View												
20 dBm							M	1[1]				7.22 dBm
20 ubiii-											2.50	090280 GHz
10 dBm						-	<u>_M1_</u> 0			г2		543457 MHz
			1 ∀~≁		way and a start and a start and a start and a start a s	•••••	manage	<u>2[4-]</u> ~~~	herencement	V V		-20.59 dBm
0 dBm						-		ı		1	2.50	003600 GHz
										1		
-10 dBm—						+						
-20 dBm—	D1 -1	.8.780	dBm							МЗ		
-20 ubiii			1									
-30 dBm—	-	<b>.</b>	- www							mon		
www	$\sim$	$\sim$	4									h www
-40 dBm—						+						+
-50 dBm—						+						
-60 dBm—												
-00 0811												
-70 dBm—												
CF 2.5075					100	1+	-				<b>C</b> m.p.r	1 30.0 MHz
<u></u>	GHZ				100	I pt	s				spar	1 30.0 MHZ
Marker	( ) -	1	~ 1	- 1		- 1		1		-		
Type Re	ef   Tro	<u> </u>	<u>X-value</u> 2,5090		<u>Y-value</u> 7.22 di	2.00	Func	tion		Fun	ction Resul	t
T1		1	2.5090		7.22 u 3.77 di		0	cc Bw			13 4565	43457 MHz
T2		1	2.51424		3.91 d						10,4003	
M2		1		36 GHz	-20.59 di							
M3		1		67 GHz	-22.30 di	Bm						
	][						Mea	suring.		11111	4,20	02.04.2018

#### 4.1.1.5 Test Mode = LTE/TM1 15MHz

Date:2.APR.2018 13:10:34



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	-	+.   .   .3	.z rest ch	annei =								_
Spect	rum	J										
	evel	25.10		5.10 dB (	● <b>RBW</b> 300 kH	Ηz						
🔵 Att		30	)dB 👄 SWT	100 ms (	📄 VBW 🛛 1 MF	Ηz	Mode	Auto S	weep			
⊖1AV V	iew											
20 dBm							M	1[1]				6.70 dBm
20 0011												91960 GHz
10 dBm	·		T1					C BAN	т	°		13487 MHz
				ىمەسىرىيەر يەرىيى بىرىيە. سەرسىرىيەر يەرىيەر يەرىيەر	And and a state of the state of	محير ويدهد.	an Mark	2[1]		2		20.47 dBm
0 dBm-										1	2.52	78600 GHz
										1		
-10 dBr	n									1		
-20 dBr		11 -10	302 dBm							MЗ		
-20 UBI		/1 -19.										
-30 dBr	n									theme		
ha.	$\wedge$	$\sim\sim$	$\sim$							100 and the	1 million and	nn.
-40 dBr	n <del></del> +											~ ~ W
-50 dBr	n											
-60 dBr												
-00 081	"											
-70 dBr	n											
CF 2.5		1-			1001						0	
		ΗZ			1001	pts					span	30.0 MHz
Marker		1										1
Туре	Ref		X-value		Y-value		Funct	ion		Fund	ction Result	
M1 T1		1	1 2.539196 GHz 1 2.5282567 GHz		6.70 dBm		Occ. Rev			13.486513487		
T2		1	2.52825		3.71 dBm 3.43 dBm		Occ Bw				10.4605	13407 19182
M2		1		86 GHz	-20.47 dB							
M3		1		14 GHz	-19.94 dB							
		)[					Mea	surina.	1000		1.20	02.04.2018
							)					

#### 4.1.1.5.2 Test Channel = MCH

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Spectrum	4.1.1.5.3	5 Test Channel =						
						[ 7		
Ref Level			RBW 300 kHz					
Att 🛛	30 d	iB 😑 SWT 🛛 100 ms	● VBW 1 MHz	Mode Auto S	iweep			
∋1Av View								
20 dBm				M1[1]		6.68 dB		
20 40.00						2.5567460 GF		
10 dBm		<u>11</u>		Occ Bw	то	13.516483516 MH		
		Jun Mountain	www.www.www.www.www.www.www.		T2	-20.05 dB		
0 dBm					. \	2.5553600 GF		
-10 dBm-++								
		MP			MB			
-20 dBm	01 -19.31	6 dBm						
	_ ~ ~				- L			
-39′d8m~+	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\gamma$			my	- Marian		
10 -10								
-40 dBm								
-50 dBm								
-50 abiii								
-60 dBm——								
-70 dBm								
CF 2.5625	GHZ		1001 p	ts		Span 30.0 MH:		
Marker								
Type Ref		X-value	Y-value	Function	Fun	Function Result		
M1	1	2.556746 GHz	6.68 dBm					
T1	1	2.5557268 GHz	3.36 dBm	Occ Bw		13.516483516 MHz		
T2 1		2.5692433 GHz	3.32 dBm					
M2	1	2.55536 GHz	-20.05 dBm					
MЗ	1	2.56964 GHz	-20.68 dBm					
						02.04.2018		

#### 4.1.1.5.3 Test Channel = HCH

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	4.1.	1.6.1	Test Ch	annel =	LCH							
Spectrur	n	ך										
Ref Leve	<b>el</b> 25.	10 dBi	m Offset	5.10 dB	🔵 RBW 300 k	Hz						
🖷 Att		30 d	B 👄 SWT		🔵 <b>VBW</b> 1 M		Mode	Auto S	weep			
●1Av View												
20 dBm							M	1[1]				6.32 dBm
20 UBIII											2.5123250 GHz	
10 dBm					<u> </u>			Occ Bw <sub>M1</sub>				13487 MHz
	T1 ▽"		and the second second	M2[1]					-22.74 dBm			
0 dBm			+ +			<u> </u>			- i \		2.50	03600 GHz
10.10									-   \			
-10 dBm—												
-20 dBm-	- D1 -	19.67	9 dBm M2						M	3		
LO GDIII		10.07.								1		
-30 dBm—	-					<u> </u>				Law .		
and the second	June	فيستحرر ويترجه وال	un marker							many	an mound	worker have been and
-40 dBm—												
-50 dBm—												
-30 abiii												
-60 dBm—						┝──						
-70 dBm—												
CF 2.5075	5 GHz				1001	pts	5				Span	30.0 MHz
Marker						<u> </u>						
Type Re	ef   Ti	rc	X-value	.	Y-value	1	Funct	ion		Fund	tion Result	
M1		1	2.5123	25 GHz	6.32 dB	m						
T1		1			2.18 dBr						13,4865	13487 MHz
T2		1	2.51427		2.58 dB							
M2		1		36 GHz	-22.74 dB							
M3		1	2.514	64 GHz	-19.94 dB	im						
							Mea				1,00	13:10:42

#### 4.1.1.6 Test Mode = LTE/TM2 15MHz

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Spect	rum												
Ref L	evel	25.10	dBm	Offset	5.10 dB	RBW	300 kHz					``````````````````````````````````````	
🗕 Att		З	0 dB	e swt	100 ms 🌘	VBW	1 MHz	Mode	Auto S	Sweep			
😑 1AV V	iew												
20 dBm	-							M	1[1]		2.54	5.95 dBm 14140 GHz	
10 dBm	+			Τ1,					cc Bw 2[1]	M1		43457 MHz 21.41 dBm	
0 dBm—	-			-	- market warrant	weiter and the second					2.52	278600 GHz	
-10 dBm						_							
<del>-20 dBn</del>	<del>،  </del> [	01 -20.	054 c	IBm MP		_				M3			
-30 dBm				$\rightarrow$		_							
' <del>~4</del> 0 dBn	p <u>run</u>		- ~~w								went manner	the second	
-50 dBm	-+					_							
-60 dBm			-										
-70 dBm	ו—ר												
CF 2.5	35 G	Hz					1001 pi	ts			Span	30.0 MHz	
Marker													
Туре	Ref	Trc		X-value	e	Y-Va	alue	Func	tion	Fu	nction Result	:	
M1		1		2.5414	14 GHz	5	.95 dBm						
T1		1	1 2.5282867 GH			2.31 dBm		0	cc Bw		13.456543457 M		
Т2		1		2.54174			.42 dBm						
M2		1			86 GHz		.41 dBm						
МЗ		1		2,542	14 GHz	-21	.20 dBm						
		J						Mea			1,10	02.04.2018	

#### 4.1.1.6.2 Test Channel = MCH

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			.5 Test Ch	anner -	- 11011							
Spectr	um											
	vel	25.10 c			🔵 RBW 300 kH							
Att		30	dB 👄 SWT	100 ms	😑 VBW 1 MH	łz	Mode	Auto S	weep			
⊖1Av Vie	∋w .											
20 dBm-							M1	[1]				5.66 dBm
							0					82740 GHz
10 dBm-	_		T1	M1				C BW	т2			83516 MHz
			- Vin	un work		(an managed	VI2	2[1]	mand			·20.66 dBm i53600 GHz
0 dBm—							I		- i \		2.00	
-10 dBm												
-10 0011			ME									
20 dBm		1 -20.3	137 dBm						M	3		
										1		
-30 dBm			And International Internation							$\leftarrow$		
$\sim \sim$	and the	- Claracter	4.00- ×							and the second	a many	
-40 dBm												
-50 dBm												
50 abiii												
-60 dBm	_											
-70 dBm	+											
CF 2.56	25 0	Hz			1001	pts					Span	30.0 MHz
Marker						<u> </u>					•	
Type	Ref	Trc	X-value	, I	Y-value	1	Funct	ion		Fun	ction Result	.
M1		1	2.5582	74 GHz	5.66 dBi	n						
T1		1	2.55572		2.38 dBi		00	сBw			13.5164	83516 MHz
T2		1	2.56924		2.14 dBi							
M2		1		36 GHz	-20.66 dBi							
M3		1	2.569	64 GHz	-21.80 dBi	n						
							Meas	uring.			4,40	02.04.2018

### 4.1.1.6.3 Test Channel = HCH

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20 dBm     MI[1]     5.83 dBm       20 dBm     T1     Occ Bw     17.862137862 MHz       10 dBm     T1     M2[1]     T2       0 dBm     0 dBm     2.5006000 GHz       -10 dBm     M2     M3       -20 dBm     01 -20.169 dBm     M2       -30 dBm     M2     M3       -30 dBm     -01 -20.169 dBm     M2       -30 dBm     -01 -20.169 dBm     M2       -30 dBm     -01 -20.169 dBm     -01 -20.169 dBm       -30 dBm     -01 -20.169 dBm     M2       -30 dBm     -01 -20.169 dBm     -01 -20.169 dBm       -50 dBm     -01 -20.169 dBm     -01 -20.169 dBm       -70 dBm     -01 -20.169 dBm     -01 -20.169 dBm       -71 1		4.1.1.	7.1 Test Ch	nannel = L	.CH							
Att         30 dB         SWT         100 ms         VBW         1 MHz         Mode Auto Sweep           1 Av View         20 dBm	Spectrur	n										
1 Av View     20 dBm     M1[1]     5.83 dBm       20 dBm     T1     Occ Bw     17.862137862 MHz       10 dBm     T1     M2[1]     -22.72 dBm       0 dBm     M2     M2[1]     -22.72 dBm       10 dBm     M2     M3     -22.72 dBm       -10 dBm     M2     M3     -22.5006000 GHz       -10 dBm     M2     M3     -20.5006000 GHz       -30 dBm     M2     M3     -20.5006000 GHz       -30 dBm     M2     M3     -20.5006000 GHz       -30 dBm     -30 dBm     M3     -30.500 GHz       -50 dBm     -30 dBm     -30.500 GHz     -30.500 GHz       -50 dBm     -30.500 GHz     -30.500 GHz     -30.500 GHz       -70 dBm     -30.500 GHz     -30.600 GHz     -30.500 GHz       -70 dBm     -30.500 GHz     -30.600 GHz     -30.600 GHz       -70 dBm     -30.500 GHz     -30.60 GHz     -30.600 GHz       T1     1.5517672 GHz     5.83 dBm     -30.000 GHz       T1     1.5517672 GHz     5.83 dBm     -30.000 GHz       T1     1.5517672 GHz     3.23 dBm     -30.000 GHz       T2     1.2.518951 GHz     3.23 dBm     -30.000 GHz       M3     1.2.5194 GHz     -21.25 dBm     -30.23 dBm <th>Ref Leve</th> <th>el 25.10</th> <th>dBm Offset</th> <th>5.10 dB 🔵</th> <th><b>RBW</b> 300 kł</th> <th>Hz</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Ref Leve	el 25.10	dBm Offset	5.10 dB 🔵	<b>RBW</b> 300 kł	Hz						
20 dBm	e Att	з	80 dB 🔵 SWT	100 ms 👄	VBW 1 M	Hz	Mode Au	ito Sv	veep			
20 dBm       2.5176720 GHz         10 dBm       T1         0 dBm       T1         0 dBm       T1         -20 dBm       T1         -20 dBm       T2         -22.72 dBm         20 dBm       T2         -22.72 dBm         20 dBm       M2         -10 dBm       M2         -20 dBm       M2         -30 dBm       M2         -30 dBm       M2         -30 dBm       M2         -50 dBm       M2         -60 dBm       M2         -70 dBm       M3         -70 dBm       M3         -70 dBm       M3         -70 dBm       M3         -71       1       2.517672 GHz         5.83 dBm       M1         T1       1       2.517672 GHz         72       1       2.517672 GHz	●1Av View											
10 dBm     T1     Occ Bw     M1     T2     .5006000 GHz       .10 dBm	20 d0m						M1[1	]				5.83 dBm
10 dBm     T1     M2[1]     T2     -22.72 dBm       0 dBm     2.5006000 GHz     2.5006000 GHz       -10 dBm     N3	20 übiii										2.51	76720 GHz
0 dBm       2.5006000 GHz         -10 dBm       20 dBm         -20 dBm       01 -20.169 dBm         -30 dBm       40 dBm         -30 dBm       -10 -20.169 dBm         -50 dBm       -10 -20.169 dBm         -50 dBm       -10 -20.169 dBm         -50 dBm       -10 -20.169 dBm         -60 dBm       -10 -20.169 dBm         -70 dBm       -10 -20.169 dBm         -71 d1       2.517672 GHz       5.83 dBm         T1       1       2.51010899 GHz       2.64 dBm       Occ Bw         T1       1       2.5101089 GHz       3.23 dBm       -22.72 dBm         M2       1       2.5194 GHz       -22.72 dBm       -21.25 dBm         M2       1       2.5194 GHz       -21.25 dBm       -21	10 dBm											
-10 dBm     -10 -20.169 dBm     M2     M3       -20 dBm     -1 -20.169 dBm     M2     M3       -30 dBm     -1 -20.169 dBm     M2     M3       -30 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -40 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -50 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -50 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -50 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -60 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -1 -20.169 dBm     -1 -20.169 dBm       -70 dBm     -1 -20.169 dBm     -22.72 dBm     -1 -20.169 dBm       T1     1 2.5194 GHz     -22.72 dBm     -1 -20.169 dBm       M2     1 2.5194 GHz     -21.25 dBm     -21.25 dB						hanne	M2[J	dun	- Jung			
29 dBm     D1     -20,169 dBm     M2     M3       -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -40 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -60 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       71 1     1     2.517672 GHz     5.83 dBm     -30 dBm       T1     1     2.518951 GHz     3.23 dBm     -30 dBm       M2     1     2.5194 GHz     -21.25 dBm     -30 dBm       M2     1     2.5194 GHz     -21.25 dBm     -30 dBm	0 dBm								}		2.50	06000 GHz
29 dBm     D1     -20,169 dBm     M2     M3       -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -40 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -50 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -60 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       -70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       70 dBm     -30 dBm     -30 dBm     -30 dBm     -30 dBm       71 1     1     2.517672 GHz     5.83 dBm     -30 dBm       T1     1     2.518951 GHz     3.23 dBm     -30 dBm       M2     1     2.5194 GHz     -21.25 dBm     -30 dBm       M2     1     2.5194 GHz     -21.25 dBm     -30 dBm									-   }			
20 dBm       D1 -20.169 dBm       ME       Image: constraint of the second se	-10 dBm—											
-30 dBm	20. dBm	D1 00							M	3		
40 dBm     - <td< td=""><td>20 0011</td><td>101 -20</td><td>.109 060</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	20 0011	101 -20	.109 060									
40 dBm       -50 dBm	-30 dBm—									\		
40 dBm       -50 dBm	. 1014	mane	and the second second second							Municipal	the second and the second s	worknownen
-60 dBm     -70 dBm     -71 dBm     -71 dBm     -71 dBm     -72 dBm	-40 dBm											
-60 dBm     -70 dBm     -71 dBm     -71 dBm     -71 dBm     -72 dBm												
-70 dBm         Image: CF 2.51 GHz         Image: CF 2.51 GHz         Image: Total and the second s	-50 dBm—											
-70 dBm         Image: CF 2.51 GHz         Image: CF 2.51 GHz         Image: Total and the second s	-60 dBm											
CF 2.51 GHz         1001 pts         Span 40.0 MHz           Marker         Y-value         Function         Function Result           M1         1         2.517672 GHz         5.83 dBm         1001 pts         1001 pts           M1         1         2.517672 GHz         5.83 dBm         1001 pts         1001 pts           T1         1         2.51010889 GHz         2.64 dBm         Occ Bw         17.862137862 MHz           T2         1         2.518951 GHz         3.23 dBm         1001 pts         1001 pts           M2         1         2.5006 GHz         -22.72 dBm         1001 pts         1001 pts           M3         1         2.5194 GHz         -21.25 dBm         1001 pts         1001 pts	-00 00111											
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.517672 GHz         5.83 dBm	-70 dBm—					<b> </b>						
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.517672 GHz         5.83 dBm	CE 2 51 C	 			1001	nte						40.0 MU>
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.517672 GHz         5.83 dBm	<u> </u>	пг			1001	pts					эран	40.0 MHZ
M1         1         2.517672 GHz         5.83 dBm           T1         1         2.5010889 GHz         2.64 dBm         Occ Bw         17.862137862 MHz           T2         1         2.518951 GHz         3.23 dBm             M2         1         2.5006 GHz         -22.72 dBm             M3         1         2.5194 GHz         -21.25 dBm			l <u>v</u> r	_ 1	<b>V</b>	- 1	<b>F</b>	. 1		<b>-</b>		1
T1         1         2.5010889 GHz         2.64 dBm         Occ Bw         17.862137862 MHz           T2         1         2.518951 GHz         3.23 dBm             M2         1         2.5006 GHz         -22.72 dBm             M3         1         2.5194 GHz         -21.25 dBm						-	Functio	n		Func	tion Result	
T2         1         2.518951 GHz         3.23 dBm           M2         1         2.5006 GHz         -22.72 dBm           M3         1         2.5194 GHz         -21.25 dBm							000	Bw			17 86213	37862 MHz
M2         1         2.5006 GHz         -22.72 dBm           M3         1         2.5194 GHz         -21.25 dBm											17.0021.	21002 mil2
	MЗ	1	2.51	.94 GHz	-21.25 dB	m						
Measuring U2042/018							Measu	ing	-		1,00	2.04.2018

#### 4.1.1.7 Test Mode = LTE/TM1 20MHz

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Spectru	m										
Ref Lev	<b>el</b> 2			5.10 dB	<b>e RBW</b> 300 k	Hz					
🗕 Att		30 d	B 👄 SWT	100 ms	<b>9 VBW</b> 1 M	Hz	Mode	Auto St	weep		
😑 1 Av Viev	v		_								
20 dBm—	_						M	1[1]			5.68 dBm
20 40.00											134320 GHz
10 dBm—	+-		T1			├──		cc Bw	M <sub>1</sub>		57942 MHz
			A T	ومعيدينا والمع			Mi	2[1]	and the second sec		-22.17 dBm
0 dBm—	+-		+ +			<u> </u>		I	(	2.52	256000 GHz
10.10											
-10 dBm—											
20 dBm-		-20.315							Na		
20 00111		-20,515							1 T		
-30 dBm—	_		+			<u> </u>			-+		
		alabahtun	and the summer walk						an and a second	munumen	
-40 dBm—						<u> </u>					- alper a sub- worked
-50 dBm—											
-60 dBm—											
-00 0011											
-70 dBm—											
					1001		_			0	40.0 MU
CF 2.535	GHZ	2			1001	. pts	5			spar	40.0 MHz
Marker	<i>c</i>	_ 1									
	ef	Trc	X-value		Y-value		Func	tion	Fur	nction Result	t I
M1 T1		1	2.5434 2.5260		5.68 dE 2.59 dE			cc Bw		17 0400	57942 MHz
T2		1	2.5260		2.59 dE 2.93 dE		0	LUBW		17.9420	57942 MHZ
M2		1		56 GHZ	-22.17 dE						
M3		1		44 GHz	-24.31 dE						
							Mela	suring		144	02.04.2018

#### 4.1.1.7.2 Test Channel = MCH

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Spect	rum										
Ref L	evel	25.10 d	Bm Offset	5.10 dB	🔵 RBW 300 k	Hz					
🗕 Att		30	dB 😑 SWT	100 ms	🔵 VBW 1 M	Hz	Mode	Auto S	weep		
●1AV V	iew										
20 dBm							M1	l[1]			6.17 dBm
20 0011											26470 GHz
10 dBm				M1				c Bw	т2		57942 MHz
					man man and a second		M2	2[1]	-> I Angeneration		20.90 dBm
0 dBm—			+ +							2.55	06000 GHz
-10 dBn	n										
-20 dBn		D1 -19.8	26 dBm						Mз		
20 001	"	DI -19.0							_   <b>▼</b>		
-30 dBn			and and a strange work						\		
mannen		hand a stand the stand of the stand							man	marked and the stand and the state of the second state of the seco	another man
-40 dBn	∩—										many
	_										
-50 dBn											
-60 dBn	n										
-70 dBn	n										
CF 2.5	6 GE	17			1001	nts	I			Snan	40.0 MHz
Marker					1001		-				
Type	Ref	F   Trc	X-value	a	Y-value	1	Funct	ion	Fur	nction Result	- 1
M1	1.01	1	2.5526		6.17 dB	m	1 41100			iocion nosuit	
T1		1		09 GHz	3.77 dB		Oc	c Bw		17.9420	57942 MHz
Т2		1	2.5689	51 GHz	3.05 dB	m					
M2		1		06 GHz	-20.90 dB						
M3		1	2.56	94 GHz	-22.93 dB	m					
							Meas	suring.		1,70	2.04.2018

### 4.1.1.7.3 Test Channel = HCH

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	4.1.1.	8.1	Test Ch	annel =	LCH								
Spectrur	n											₩	
Ref Leve	25.10	dBm	Offset	5.10 dB	🔵 RBW 300 kł	Ηz							
🗕 Att	3	30 dB	🔵 SWT	100 ms	VBW 1 Mi	Ηz	Mode	Auto S	weep				
⊖1Av View	_												
20 dBm						<u> </u>	M	1[1]				4.87 dBm	
							0					58740 GHz	
10 dBm			T1			<u> </u>	0	CC B∦1 2[1] ▼	Т2			97902 MHz 21.13 dBm	
0 dBm			y m			~~~	multi	State The	mint			21.13 UBIN 06400 GHz	
0 aBm													
-10 dBm—						<u> </u>							
-20 dBm D1 -21.131 dBm													
-30 dBm—													
-30 00111									h h				
-40 dBm	mound	han the second s	مع المسامي الم المسامي المسامي			<u> </u>					montheline	man and	
-50 dBm—													
-60 dBm—													
00 00													
-70 dBm—						<u> </u>							
CF 2.51 G	I Hz				1001	pts	5				Span	40.0 MHz	
Marker							_						
Type   Re	ef   Trc	1	X-value	.	Y-value		Func	tion	F	uncti	ion Result		
M1	1		2.5158		4.87 dB	m							
T1	1		2.5010		1.61 dB		0	cc Bw			17.90209	97902 MHz	
T2	1	-	2.5189		2.29 dB								
M2 M3	1			54 GHz 94 GHz	-21.13 dB -22.72 dB								
			2.51	94 GHZ	-22.72 UB		<u>,                                     </u>			_			
							Mea					13:23:01	

#### 4.1.1.8 Test Mode = LTE/TM2 20MHz

Date:2.APR.2018 13:23:01



Report No.: SZEM161000916605 Page: 42 of 89

Spectru	ım											
	vel 2	25.10 dE			👄 RBW 300 ki							
e Att		30 (	dB 👄 SWT	100 ms	VBW 1 MI	Ηz	Mode	Auto S	weep			
😑 1 Av Vie	w_											
20 dBm—							M	1[1]				4.82 dBm
												437910 GHz
10 dBm—	_							C Bw	M1			057942 MHz
			T1	mound			MD Arrent arrent	2[1]	and the second			-22.94 dBm
0 dBm—	-		+ +						\		2.52	256000 GHz
10 40												
-10 dBm-												
-20 dBm-			<u></u>						M	3		
		1 -21.17	'9 aBm									
-30 dBm-	_		<u> </u>									
			and the second							Wy		
<del>~~ቀ</del> ው•dBm <sup>&amp;</sup>	-Mu-uu	Martin Martin	-Malmone								4 when we reduced a	and a manuscription
-50 dBm-												
-60 dBm-												
00 00.00												
-70 dBm-	_											
CF 2.53		7			1001	nte	-					1 40.0 MHz
Marker	J GH	2			1001	pts	<b>,</b>				эра	140.0 MHZ
	Ref	Trc	X-value	. 1	Y-value	1	Funct	ion I		E.u.s.	ction Resul	•
Type I M1	xer	1 1	2.5437		4.82 dB	<u>_</u>	Func	.iun		Fun	ction kesul	ι
T1		1	2.5457		1.91 dB		0	c Bw			17,9420	157942 MHz
T2		1	2.5439		2.08 dB						1110420	0101210112
M2		1		56 GHz	-22.94 dB							
МЗ		1	2.54	44 GHz	-21.42 dB	m						
							) Me a	suring.			1,70	02.04.2018

#### 4.1.1.8.2 Test Channel = MCH

Date: 2 APR 2018 13:23:24



Report No.: SZEM161000916605 Page: 43 of 89

Spectr	um											
Ref Le	evel	25.10 di		5.10 dB	🔵 RBW 300 kH	łz						
🔵 Att		30	dB 👄 SWT	100 ms	🔵 VBW 1 MH	lz	Mode	Auto S	Sweep			
😑 1AV Vi	ew			-								
20 dBm-							M	1[1]				5.28 dBm
20 00.00												532470 GHz
10 dBm-				M1				C BW				057942 MHz
			T1	er monte and the second	manonemetermetermeter	m	M:	2 <b>[1]</b>	- ••••••••••••••••••••••••••••••••••••	T2		-22.04 dBm
0 dBm—							<u> </u>		1	1 I	2.5	506000 GHz
10 40										1		
-10 dBm												
-20 dBm		A 00.70								МЗ		
		)1 -20.72								T I		
-30 dBm	ı—		-									
		and the second	en gandralle and							and water	and the second	man and a second se
-40 dBm	·-+-											and a start and a start and a start a st
-50 dBm												
-60 dBm												
00 0011	'											
-70 dBm	ı——											
CF 2.56	. <u></u>				1001	nte	-				Cna	 n 40.0 MHz
Marker	Jan	2			1001	pts	<b>`</b>				эра	
	Dof	Tro	V!	. 1	V uslus	- 1	Funct	ion I	1	г	otion Docu	I+
Type M1	Ref	1 Trc	<u>X-value</u> 2.5532		<u>Y-value</u> 5.28 dBr	-	Func	.iun		Fur	nction Resu	п
T1		1	2.5552		1.74 dBr		0	c Bw			17.9420	057942 MHz
T2		1	2.5689		1.30 dBr						1112120	
M2		1		06 GHz	-22.04 dBr	_						
M3		1	2.56	94 GHz	-23.11 dBr	n						
		)[					) Me a	suring.			144	02.04.2018

### 4.1.1.8.3 Test Channel = HCH

Date: 2 APR .2018 13:23:47



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### 5 Band Edges Compliance

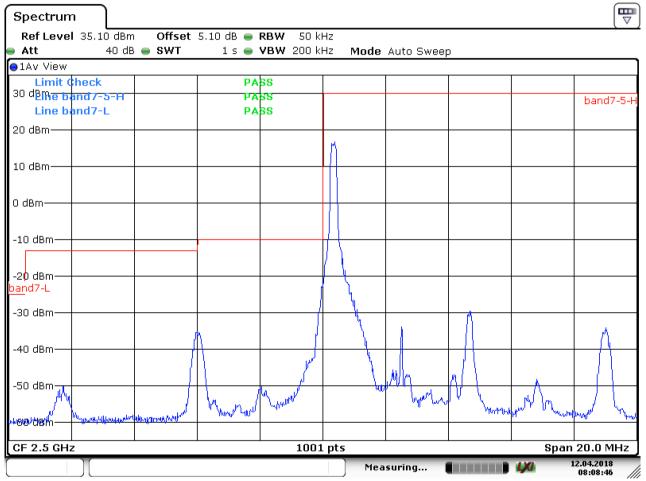
### 5.1 For LTE

### 5.1.1 Test Band = LTE BAND 7

### 5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

#### 5.1.1.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:08:46



Report No.: SZEM161000916605 Page: 45 of 89

Spectrum	)							
Ref Level 35.1	.0 dBm Off	fset 5.10 dB 👄	<b>RBW</b> 50 kł	Ηz				
👄 Att	40 dB 🔵 SW	<b>/T</b> 1s 👄	<b>VBW</b> 200 kł	Hz Mode	Auto Sweep	)		
●1Av View								
Limit Check		PA	SS					
30 dBMe band7-	-5-H	PA	88					band7-5-H
Line band7-	·L	PA	SS					
20 dBm								
10 dBm								
0 dBm					ang and more thank	wyin		
o dom								
-10 dBm								
-20 dBm				+				
band7-L				}				
-30 dBm				ř				
			للمبر	,		have	how we	
-40 dBm			and the form			- 100 au	hipplugen ted to	
		provertenteretenter	and m				······	rangenerated
-50 dBm		when the						when
	allow Product of the contraction of the							
-40 dBm -50 dBm -50 dBm	outor 1							
			1001				0	
CF 2.5 GHz			1001	pts			-	20.0 MHz
				Mea	suring		LXI I	2.04.2018 08:07:25

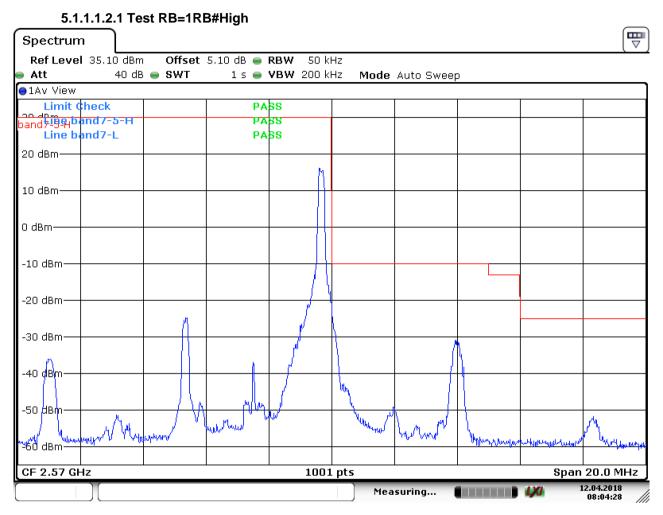
#### 5.1.1.1.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:07:25



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#### 5.1.1.1.2 Test Channel = HCH



Date: 12.APR.2018 08:04:28



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Spectrum	, )								
Ref Level	35.10 dBm	Offset	5.10 dB 👄	<b>RBW</b> 50 k	Hz				`
Att	40 dB	SWT 😑 SWT	1 s 👄	<b>VBW</b> 200 k	Hz Mode	Auto Sweep	)		
●1Av View									
Limit C	heck		PA	<b>SS</b>					
oo dp.mg band外噴船ba Line ba	nd7-5-A nd7-L		PA PA						
20 dBm									
10 dBm									
0 dBm		Alar	- Julio hand an and a second second	hand had had had had had had had had had ha					
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm	an anaphyrou fo	and the second se			maderer	Withouthal John year			
-40 dBm -50 dBm	WHOOD					· wayd provided	m WWWWWWWWWWWW	Multimeter .	Unterstandingeneral
-60 dBm									Will Hundrey words
CF 2.57 GF	łz			1001	l pts				20.0 MHz
					Mea	suring (		LX0	12.04.2018 08:00:33

### 5.1.1.1.2.2 Test RB=FullRBs

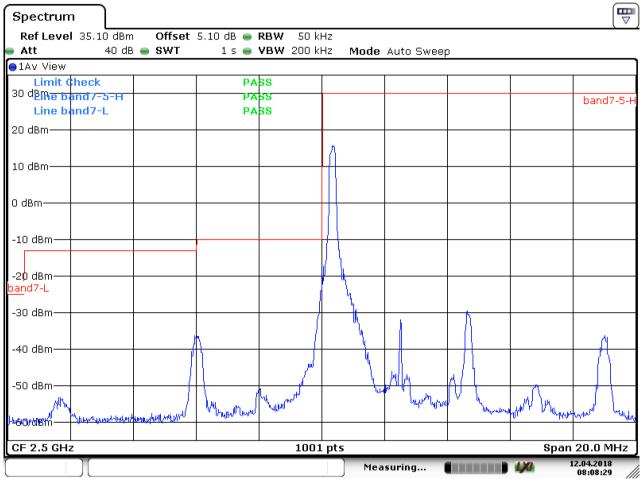
Date: 12.APR.2018 08:00:33



Report No.: SZEM161000916605 Page: 48 of 89

### 5.1.1.2 Test Mode = LTE/TM2 5MHz 5.1.1.2.1 Test Channel = LCH

#### 5.1.1.2.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:08:29



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Spectrum	<u>ו</u>	)								
Ref Level	<b>I</b> 35.1	.0 dBm	Offset	5.10 dB 🔵	<b>RBW</b> 50 ki	Ηz				
🗕 Att		40 dB	🔵 SWT	1 s 👄	<b>VBW</b> 200 ki	Hz Mode	Auto Sweej	C		
●1Av View										
Limit C				PA	SS					
30 dBme ba					88					band7-5-H
Line bi	and7-	L		PA	ss					
20 dBm——										
10 dBm										
0 dBm								. Marchan		
o dom						Wetgelicker topic as a period	Ombbdo	1. A. B. A.		
-10 dBm—										
-20 dBm										
band7-L										
-30 dBm						ľ				
					1					
-40 dBm					Lynn T			L. Lutin		
10 abiii				, history M	Anterentetalalapart				Mrughan makes	iden physical production
			. J <sup>u</sup>	who we all a property as a						way for the
-50 aBm			white May 1 your							1.0404
-40 dBm	unarm	Marahan	We							
-80 dBm										
CF 2.5 GHz	 z				1001	. pts			l Span	20.0 MHz
	- )(				1001		curina			12.04.2018
							suring			08:08:04

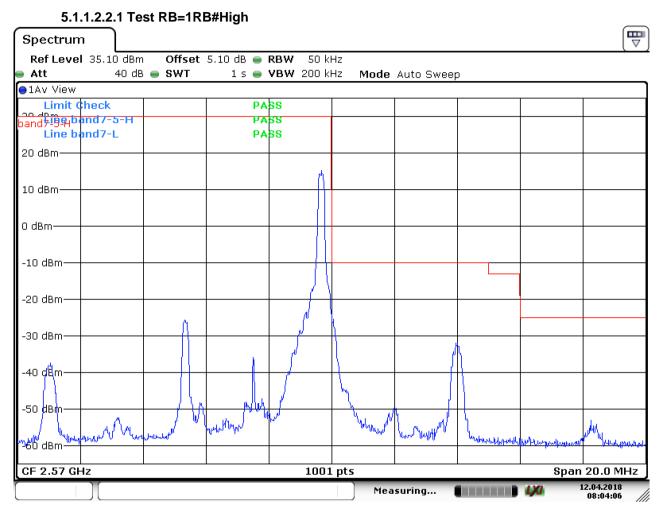
#### 5.1.1.2.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:08:05



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#### 5.1.1.2.2 Test Channel = HCH



Date: 12.APR.2018 08:04:07



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Spectrum	, )								
Ref Level	35.10 dBm	Offset	5.10 dB 👄	<b>RBW</b> 50 k	Hz				
Att	40 dB	SWT	1 s 👄	<b>VBW</b> 200 k	Hz Mode	Auto Sweej	D		
●1Av View									
Limit C	heck		PA	8S					
고요 성요 band 카마마머b	and 7-5-H		РА	ss					
Line ba	and7-L		PA	ss					
20 dBm——									
10 dBm									
0 dBm		рити	1949940.00000000000000	un an					
-10 dBm									
-20 dBm									
-30 dBm				<u> </u> ١					
-40 dBm	un Hardmar	Lawan and			Humanallander				
-40 dBm -50 dBm <del>, լիկն</del> տարույներում	rodul willow .					huhadhahaykamaa	"The all bear of the barrent of the	wayharman	
-60 dBm									Marakana ang tang tang tang tang tang tang ta
CF 2.57 GH	łz			1001					20.0 MHz
					Mea	suring		120	12.04.2018 08:02:44 //

#### 5.1.1.2.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:02:44



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### 5.1.1.3 Test Mode = LTE/TM1 10MHz

#### 5.1.1.3.1 Test Channel = LCH

#### 5.1.1.3.1.1 Test RB=1RB#Low

Spectrun	n								
	l 35.10 dBn		5.10 dB 👄						
Att	40 di	B 🖷 SWT	1 s 👄	<b>VBW</b> 300 k	Hz Mode	Auto Sweep	)		,
●1Av View						1		1	1
Limit C	theck		PA						
30 d <u>Bme ba</u> Line ba	and7-L and7-10-H		РА РА						
20 dBm					b				
10 dBm									
0 dBm									
-10 dBm									
-20 dBm band7-L							1		
-30 dBm—						1			Λ
-40 dBm——							6		
-50 dBm—			,	h d	L. Lungh	Mun	$\mathbb{A}$		
-60 dBm—	www.www.	personalization	hugher house	happy marker	0	ա տարչչատ	no transitivy	within Nationa	evening have
CF 2.5 GH:	 z			1001	pts			Span	40.0 MHz
	][]					suring (			12.04.2018 08:12:31

Date: 12.APR.2018 08:12:31



Report No.: SZEM161000916605 Page: 53 of 89

Spectrum	ו	)												
Ref Level	<b>I</b> 35.1	.0 dBm	Off	set 5	5.10 dB (	e Ri	<b>BW</b> 100 k	Hz						
🕳 Att		40 dB	e sw	т	1 s (	e vi	<b>BW</b> 300 k	Hz	Mode	Auto Sweej	þ			
●1Av View														
Limit C	heck					PAS	5							
30 d <mark>Bine ba</mark>	and 7-	L				PAS	s							
Line ba	and7-	10-H			I	PAS	S							
20 dBm								╞						
10 dBm														
0 dBm								<b> </b> ,	موسعينا ومواليه والمراسع	monore	man			
-10 dBm														
						_								
-20 dBm								Ħ						
-30 dBm								Į				L.		
-40 dBm				. Jun	Theready with	untr	unantimore						and and and and and and	· · · · · · · · · · · · · · · · · · ·
-50 dBm		and the	request making the	N <sup>er</sup>				+						"nug
mentariphyticstrated	groupen	- Martin												
-60 dBm								+						
CF 2.5 GHz	z						100	⊥ 1 p	ts				Span	40.0 MHz
									Mea	suring			<b>1/0</b>	2.04.2018 08:11:08

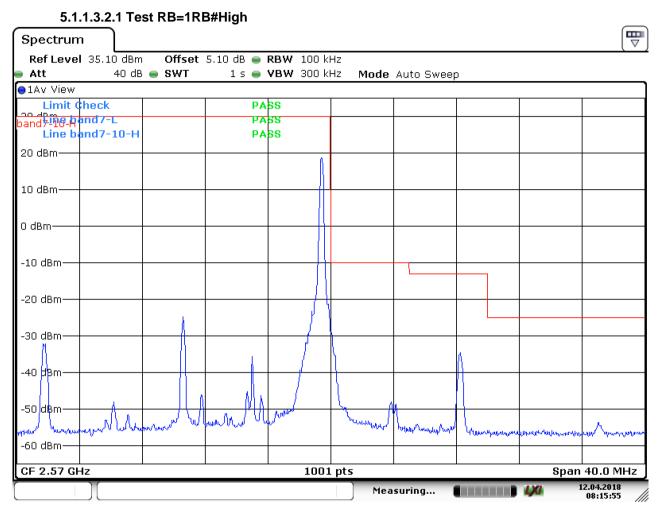
#### 5.1.1.3.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:11:08



Report No.: SZEM161000916605 Page: 54 of 89

#### 5.1.1.3.2 Test Channel = HCH



Date: 12.APR.2018 08:15:55



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Spectrum	, )										Ē
Ref Level	35.10 dB	m O	ffset	5.10 dB	👄 RB	W 100 k	<hz< th=""><th></th><th></th><th></th><th></th></hz<>				
Att	40 d	B 😑 S'	WT	1 s	🔵 VB	<b>W</b> 300 k	KHz Mode	Auto Swee	0		
⊖1Av View											
Limit C	heck				PASS						
bandy <u>ing</u> ha bandyingha Line ba	nd7-L nd7-10-F	4			PASS PASS						
20 dBm											
10 dBm											
0 dBm			enerality.c	parta phala ang	stangely it, paket filt	www.Medikala					
-10 dBm											
-20 dBm			-								
-30 dBm			<u> </u>								
-40 dBm	wathingthe	And the state of t					howwwww	hor mound half on all you and	μul		
-60 dBm									hour delerandes	home many and the second se	an a
CF 2.57 GH	lz					100	1 pts			 Span	40.0 MHz
							Mea	asuring		LXI	12.04.2018 08:14:34 //

#### 5.1.1.3.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:14:34



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### 5.1.1.4 Test Mode = LTE/TM2 10MHz 5.1.1.4.1 Test Channel = LCH

#### 5.1.1.4.1.1 Test RB=1RB#Low

Spectrum								
Ref Level 35.10 dBm	Offset	5.10 dB 😑	<b>RBW</b> 100 k	Hz				`
	SWT	1 s 👄	<b>VBW</b> 300 k	Hz Mode	Auto Sweep	ו		
●1Av View								
Limit Check		PA	SS					
30 dBMe band 7-L		PA						
Line band7-10-H		PA	ss					
20 dBm				1				
				10				
10 dBm				4				
				I N				
0 dBm								
-10 dBm								
				11				
-20 dBm				/ 1				
band7-L				$(\Lambda)$		6		
-30 dBm				] {				
-30 UBIII				1				
				1 1				1 1
-40 dBm	8							
					1 10	A		
-50 dBm			l de la constante de la consta	berny	MI IA	<u> </u>	<u> </u>	+ + + - + + + + + + + + + + + + + + +
du.		law your why we	Whynewal	~`V	1 Julia	W Ynerense	why have	when he have
-60 dBm	and an and a second	and Abarba allow						when when
CF 2.5 GHz			1001	l pts			Span	40.0 MHz
				Mea	suring		1/0	12.04.2018 08:12:06

Date: 12.APR.2018 08:12:06



Report No.: SZEM161000916605 Page: 57 of 89

Spectrum	n	)											
Ref Level	<b>I</b> 35.1	LO dBm	Offs	set .	5.10 dB 👄	RBW	100 kł	Ηz					
🗕 Att		40 dB	🔵 SW	Г	1 s 👄	VBW	300 kł	Hz Mode	e Auto Swee	р			
●1Av View													
Limit C					Ρ.	465							
30 dB <mark>Me ba</mark>					Р.	455							
Line b	and7-	·10-H			Ρ.	465							
20 dBm													
10 dBm													
0 dBm								plututututututut	AND THE REAL PORTS	un norther the			
-10 dBm—													
, -20 dBm band7-L													
Danu7-L													
-30 dBm						_		[					
								}			ι.		
-40 dBm——					antonentervisione						- April 10	wand the supplication of the	
					Were all and a spectra and	When the start of	~					1	www.lynn
-50 dBm—			www.	w									June March
dimension provided and	man	where we	July Charles										
-60 dBm													
CF 2.5 GHz	z						1001	pts		_		-	40.0 MHz
								Me	asuring			LXI	12.04.2018 08:11:40

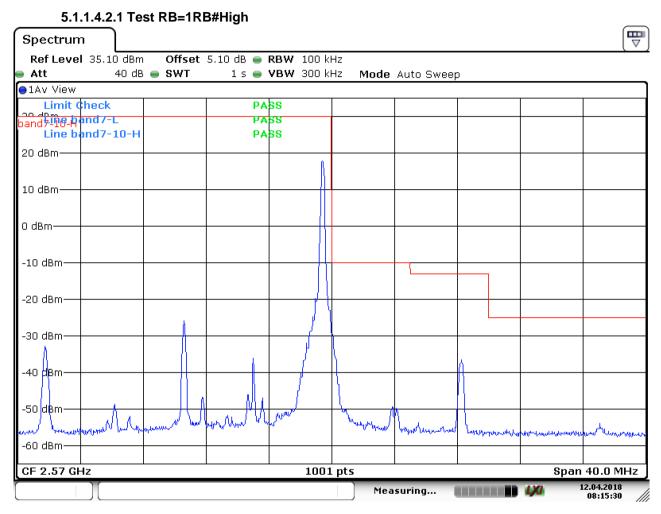
#### 5.1.1.4.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:11:40



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#### 5.1.1.4.2 Test Channel = HCH



Date: 12.APR.2018 08:15:31



Report No.: SZEM161000916605 Page: 59 of 89

Spectrun	n										
Ref Leve	l 35.10 c	lBm 🛛	Offset	5.10 dB 🧉	RBW	100 kH	Ηz				
🖷 Att	40	dB 😑 🕄	SWT	1 s 🖷	VBW	300 kH	Hz Mode	Auto Swee	р		
⊖1Av View											
Limit (	3heck 👘				ASS						
bandy-16-A Line b	and7-L and7-10	-н			ASS ASS						
20 dBm——											
10 dBm											
0 dBm			June	Ulp <sup>a</sup> row Ul <sup>and</sup> a	Murillan	Jan Martin					
-10 dBm—											
-20 dBm—											
-30 dBm—											
-40 dBm—	1.1.1.04.749	July wer hiller	/								
-40 dBm	and the second s							and we also we also have a second	- 12		
-60 dBm—									· · ·····	Yallaarayyahadanaa ya	welaward and a second sec
CF 2.57 G	 Hz					1001					40.0 MHz
							Mea	suring		1,00	12.04.2018 08:15:04

#### 5.1.1.4.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:15:05

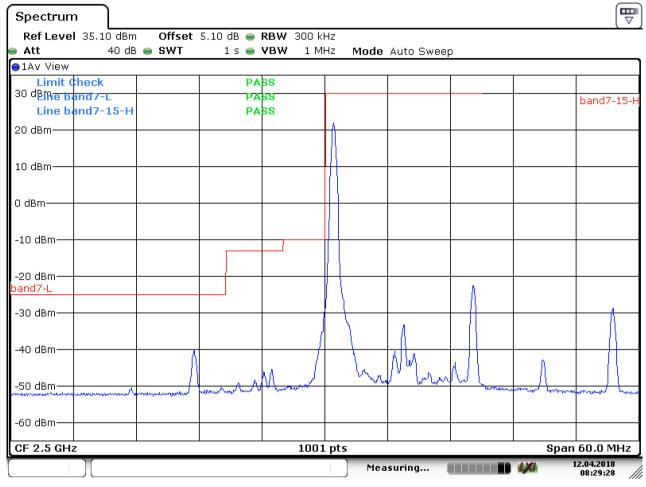


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### 5.1.1.5 Test Mode = LTE/TM1 15MHz

#### 5.1.1.5.1 Test Channel = LCH

#### 5.1.1.5.1.1 Test RB=1RB#Low



Date: 12.APR.2018 08:29:28



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Spectrum	n	)										Ē
Ref Level	<b>I</b> 35.1	.0 dBm	Offs	<b>et</b> 5.10	) dB 😑	<b>RBW</b> 300 k	Hz					( )
🕳 Att		40 dB	🔵 SWT	-	1 s 👄	<b>VBW</b> 1 M	Hz Mode	Auto Sweep	э			
●1Av View												
Limit 0					PA	<b>8</b> 8						
30 dB <mark>Me ba</mark>	and 7-	L			РА							band7-15-H
Line bi	and7-	·15-H			PA	SS						
20 dBm												
10 dBm												
							mound	the house marked in	my			
0 dBm												
-10 dBm												
										)		
-20 dBm—										1		
band7-L												
							lí –			1		
-30 dBm							1			t.		
						In marked	1			and and a	Marguner	
-40 dBm——				ha	Jul Barris	a construction of the second sec						mony
			1									
-50 dBm			mount									
egangaran wang dipaktar	- area and											
-60 dBm												
CF 2.5 GHz	z					100	L pts				Span	60.0 MHz
							Mea	suring			1/0	12.04.2018 08:28:22

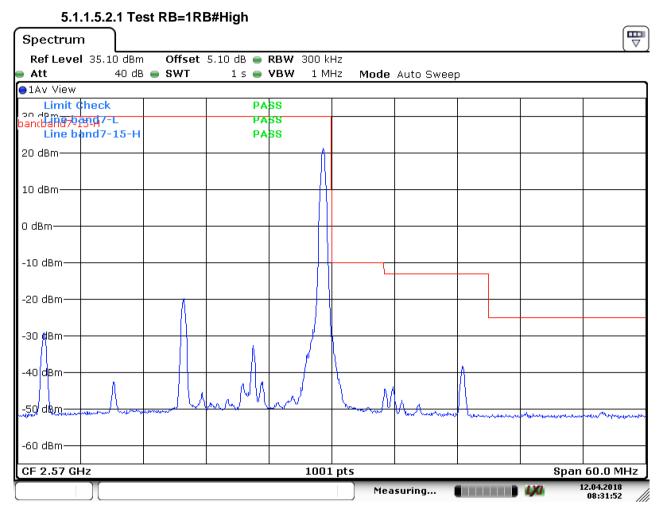
#### 5.1.1.5.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:28:23



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#### 5.1.1.5.2 Test Channel = HCH



Date: 12.APR.2018 08:31:52



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Spectrum	<u> </u>								
Ref Level	35.10 dBm	Offset	5.10 dB 😑	<b>RBW</b> 300 k	Hz				
🗕 Att	40 dB	SWT	1 s 👄	VBW 1 M	Hz Mode	Auto Swee	р		
●1Av View							-		
Limit C	heck		PA						
bancband791	ម្មាជ្ឍ7-៤		PA						
Line ba	nd7-15-H		PA	ss					
20 dBm									
10 dBm									
0 dBm				dunnymenter					
-10 dBm									
-20 dBm									
-30 dBm	www.	$\sim$			have a				
-40/dBm	,				· · ····	Conservation of the second			
-50 dBm							mana	the second s	nature and the second
-60 dBm									
CF 2.57 GH	lz			100:	L pts	I		Span	60.0 MHz
	][]				Mea	isuring		1,70	12.04.2018 08:30:37

#### 5.1.1.5.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:30:38



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### 5.1.1.6 Test Mode = LTE/TM2 15MHz 5.1.1.6.1 Test Channel = LCH

#### 5.1.1.6.1.1 Test RB=1RB#Low

Spectrum						
Ref Level 35.10 dBm Offset	5.10 dB 🥃 RBW 300 k	Hz				
🖷 Att 🛛 40 dB 🖷 SWT	1 s 👄 <b>VBW</b> 1 M	Hz Mode	Auto Sweep	)		
●1Av View						
Limit Check	PASS					
30 dBMe band7-L	PASS					band7-15-H
Line band7-15-H	PASS					
20 dBm		8				
		Ц				
10 dBm						
0 dBm						
-10 dBm						
-20 dBm						
band7-L				h		
-30 dBm						h
		1	1 1			1 ()
-40 dBm						<u> </u>
		1	NM -	A	٨	I II
-50 dBm		hun	1° tron	NV L	whereas a second second second	
and the second second second	why and for a construction				from prometty	man have
-60 dBm						
CF 2.5 GHz	1001	L pts	1		Span	60.0 MHz
		Mea	suring		1/0	12.04.2018 08:29:13

Date: 12.APR.2018 08:29:13



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Spectrum										
Ref Level 3	35.10 dBm	o Offset	5.10 dB 😑	<b>RBW</b> 300 ki	Ηz					`
🖷 Att	40 dB	s 🔵 SWT	1 s 😑	VBW 1 MI	Hz Mode	Auto Sweep	b			
⊖1Av View										
Limit Ch	eck		PA	8S						
30 d <mark>BMe ban</mark>	đ7-L		РА							band7-15-H
Line ban	d7-15-H		PA	SS						
20 dBm										
10 dBm										
10 0.0.11										
					manument	and the second state of th	min			
0 dBm										
-10 dBm				,						
-20 dBm——										
band7-L										
								Į –		
-30 dBm										
					/			man		
-40 dBm				May more thank and shake on the					Willindanker Walkington	
			ale month and							amen m
-50 dBm		and the second								
-JU UBIII	and a second state of the	an and the second								
-60 dBm										
CF 2.5 GHz				1001	nts				 Snar	60.0 MHz
				1001						12.04.2018
					Mea	suring			L/U	08:28:51

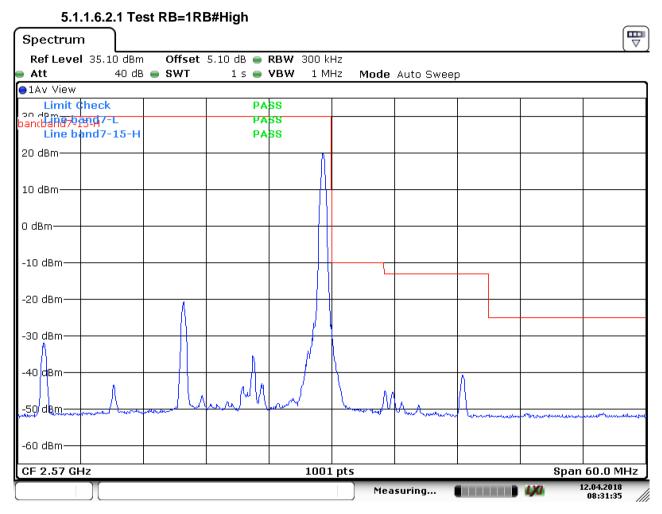
#### 5.1.1.6.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:28:52



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#### 5.1.1.6.2 Test Channel = HCH



Date: 12.APR.2018 08:31:35



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Spectrum	, )								
Ref Level	35.10 dBm	Offset	5.10 dB 👄	<b>RBW</b> 300	<hz< th=""><th></th><th></th><th></th><th></th></hz<>				
🔵 Att	40 dB	🔵 SWT	1 s 😑	VBW 1 N	1Hz Mode	Auto Swee	р		
●1Av View									
Limit C	heck		PA	<b>8</b> 5					
bancband7-1	<u> ყր</u> ქ7-L		РА	ss					
Line ba	and7-15-H		PA	SS					
20 dBm——									
10 dBm									
0 dBm		Contraction of the second seco	nerten anderson ander	and the second					
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm	procession and the second s	and the			herennen	and the second s			
-50 dBm							and the second		nde-betrytthreaderjjee
-60 dBm									
CF 2.57 GH	lz			100	1 pts	·	•	Span	60.0 MHz
	)[]				Mea	suring		1/0	12.04.2018 08:31:05 //

#### 5.1.1.6.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:31:05



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### 5.1.1.7 Test Mode = LTE/TM1 20MHz

#### 5.1.1.7.1 Test Channel = LCH

#### 5.1.1.7.1.1 Test RB=1RB#Low

Spectrun	n ]								
Ref Leve Att	1 35.10 dBm	o Offset	5.10 dB 👄			A	_		
ALL 1Av View	40 UE	5 <b>- 5</b> - 5 - 6	1 s 👄	VBW 1 M	H2 MODE	Auto Sweep	0		
Limit (	Check		PA	88					
30 d <u>Bme b</u>	and 7-L and 7-20-H		PA PA						
20 dBm	anu7-20-H		PA	55					
20 ubiii									
10 dBm									
10 0.0111					}				
0 dBm									
-10 dBm—									
-20 dBm band7-L								1	
					}			I A	
-30 dBm—					l l				
10 10						1		I)	
-40 dBm—						a /4	A I		
-50 dBm		Δ.	M		brown	m N L	mil	1	
- SO GBIII		fal arran	marken have	se the water -				menter	what have men
-60 dBm									
CF 2.5 GH	-			1001	ntc			 	60.0 MHz
[ CF 2.3 GH	2			1001				-	60.0 MHZ
(					Mea	suring			08:34:28

Date: 12.APR.2018 08:34:29



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Spectrum									
Ref Level 3	35.10 dBm	Offset	5.10 dB 😑 I	<b>RBW</b> 300 ki	Ηz				
Att	40 dB	🖷 SWT	1 s 👄 '	VBW 1 MI	Hz Mode	Auto Swee	р		
⊖1Av View									
Limit Ch	eck		PA	<b>SS</b>					
30 dB <mark>Me ban</mark>			РА						
Line ban	d7-20-H		PA	<b>SS</b>					
20 dBm									
10 dBm									
10 dbiii									
					mangement	and the second	www.www.www.www.	ng	
0 dBm									
-10 dBm									
-20 dBm									
band7-L									
-30 dBm									
					J			- Num	
-40 dBm			myremen	No. A. L. March and a start of the start of				mul was	and the second strength of the second strengt
		with an out of the second	my						
-50 dBm——		and the second second							
-JU UBIII	and a stand of the stand of the								
-60 dBm									
CF 2.5 GHz				1001	nts			Snan	60.0 MHz
	1			1001				-	2.04.2018
					Mea	suring		4	08:33:27

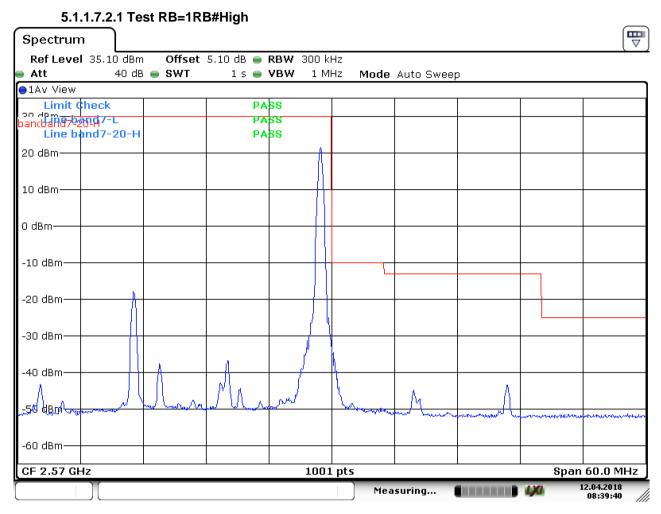
#### 5.1.1.7.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:33:28



Report No.: SZEM161000916605 Page: 70 of 89

#### 5.1.1.7.2 Test Channel = HCH



Date: 12.APR.2018 08:39:40



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Spectrum	<u>,                                     </u>									
Ref Level	35.10 dBm	Offset	5.10 dB 🥃	RBW	300 ki	Ηz				( '
🗕 Att	40 dB	🖷 SWT	1 s 😑	VBW	1 MI	Hz Mode	Auto Sweej	C		
●1Av View										
Limit C	heck		Р	ASS						
bancband792	ղով7-լ		ч (	ASS						
Line ba	and7-20-H		P	ASS						
20 dBm										
10 dBm										
		al many adaptions								
0 dBm				and have been						
-10 dBm										
10 0.011										
-20 dBm——										
-30 dBm										
mounder	and and a frank wards				L.	manner				
-40 dBm							- Married			
							Kurre	man		
-50 dBm								many	the second	nffyrdd agreganau ywrag
-60 dBm										
CF 2.57 GH	lz				1001	pts			-	60.0 MHz
	][]					Mea	suring		LXI	12.04.2018 08:36:29

#### 5.1.1.7.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:36:30



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### 5.1.1.8 Test Mode = LTE/TM2 20MHz 5.1.1.8.1 Test Channel = LCH

#### 5.1.1.8.1.1 Test RB=1RB#Low

Spectrum									
Ref Level 35.10 dBm Offset 5.10 dB 👄 RBW 300 kHz									
	IB 😑 SWT	1 s 👄 '	<b>VBW</b> 1 M	Hz Mode	Auto Sweep	0			
●1Av View	-								
Limit Check		PA							
30 dBMe band7-L		PA							
Line band7-20-I	1	PA	55						
20 dBm				t.					
10 dBm									
				11					
0 dBm									
-10 dBm									
-20 dBm									
band7-L							4		
-30 dBm				6 5			18		
-30 dBm				1					
			J	i i	6		10		
-40 dBm				1		λ.			
					N/M	L. ()	lf t	٨	
-50 dBm	- Aa	M	and marked	www.	mr du h	Mr. Ju	human	LA A	
and a second statement of the	when the former	for Andres Assess	New Autority					and the second contract	
-60 dBm									
CF 2.5 GHz 1001 pts Span 60.0 MHz									
Measuring 12.04.2018									
								08:34:15	

Date: 12.APR.2018 08:34:16



Report No.: SZEM161000916605 Page: 73 of 89

Spectrum				
RefLevel 35.10 dBm O	)ffset 5.10 dB 😑 RBW 300 kH	łz		
🖷 Att 40 dB 🖷 S	<b>WT 1s 🖷 VBW</b> 1 MH	Iz – <b>Mode</b> Auto Sweep	)	
●1Av View				
Limit Check	PASS			
30 dBme band 7-L	PASS			
Line band7-20-H	PASS			
20 dBm				
10 dBm				
		and many many and	mannen	
0 dBm				
-10 dBm				
-20 dBm				
band7-L				
-30 dBm				
-30 0811				
		)	here and the second sec	
-40 dBm	and the second s		The work of	about the way and the
	munder			
-50 dBm				
physical and a second and a second and a second and a second a s				
-60 dBm				
CF 2.5 GHz	1001	pts	Span	60.0 MHz
		Measuring	<b></b>	12.04.2018 08:33:53

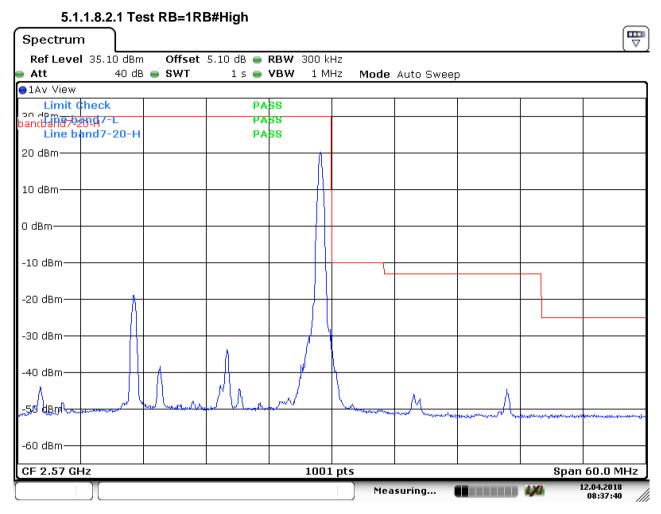
#### 5.1.1.8.1.2 Test RB=FullRBs

Date: 12.APR.2018 08:33:53



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#### 5.1.1.8.2 Test Channel = HCH



Date: 12.APR.2018 08:37:40



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Spectrum											
Ref Level 3	35.10 dBi	n O	ffset	5.10 dB	e RBV	/ 300 k	Hz				
🖷 Att	40 d	B 🔵 S	WT	1 s	e vbv	<b>V</b> 1 M	Hz Mode	Auto Swee	р		
⊖1Av View											
Limit Ch	eck				PASS						
bancband7020	d7-L				PASS						
Line ban	d7-20-F	1			PASS						
20 dBm											
10 dBm											
	· · · · ·	muning									
0 dBm				and a produce of the second of	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	month					
						{					
-10 dBm——											
-20 dBm											
-30 dBm					_						
monorman	mound					ų	Monte and many				
-40 dBm							many march	manung manung			
								m	Lune .		
-50 dBm									all house and	and the second second second second	
											and and an and a second se
-60 dBm											
						1001	 			0	<u> </u>
CF 2.57 GHz						1001			_		60.0 MHz
							Mea	suring		1,0	2.04.2018 08:37:06

#### 5.1.1.8.2.2 Test RB=FullRBs

Date: 12.APR.2018 08:37:07



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### 6 Spurious Emission at Antenna Terminal

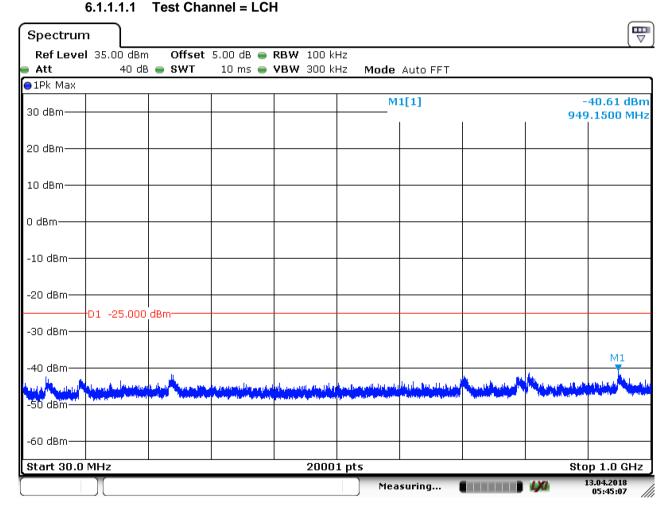
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (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 Test Band = LTE BAND 7

#### 6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0



Date: 13.APR.2018 05:45:07



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Spectrum	ιÌ											
Ref Level Att				Offset SWT	5.00 dB 100 ms e							`
• Att • 1Pk Max		+U UE		9441	100 IIIS 🧧		5 IVINZ	Moue /	Auto Sweep			
30 dBm	ł	/11 Y						M	11[1]	1		26.38 dBm 01350 GHz
20 dBm						_						
10 dBm												
0 dBm												
-10 dBm												
-20 dBm												
-30 dBm	D1 -25	-		at attact	والشعراط ومرزوان	41. J	و بر المعالم	, hardeterkenster		atus as no film and as and a	alitic bad in a Marked	and the best of the participants of the
an a	la la la maine de la		alahan Manak	an ligar di pana Jana di minan		lan tahun a	A PARA (MARA)	an a				
-50 dBm												
-60 dBm												
Start 1.0 G	Hz				·		2000:	L pts			Stop	10.0 GHz
	)[							) Mea	asuring		LXI	13.04.2018 05:55:53

Date: 13.APR.2018 05:55:53



Report No.: SZEM161000916605 Page: 78 of 89

Spectrum	ι								
Ref Leve	l 20.00 dBr	m Offset	5.00 dB 👄	RBW 1 MHz	:				
Att	25 d	B 👄 SWT	100 ms 👄	VBW 3 MHz	Mode A	uto Sweep			
😑 1Pk Max									
					M	1[1]			46.28 dBm
						1	1	19.9	83000 GHz
10 dBm									
0 dBm									
-10 dBm									
-20 dBm									
20 0.0111	D1 -25.00								
-30 dBm	DI -20.000								
-30 ubiii									
-40 dBm				м	1				
				1	Ē.				
5 <sup>1</sup> 2.48¢h <sub>11</sub> 4	al a section	ر (ایر اور ا <sup>ر</sup> ایر اور اور اور اور اور اور اور اور اور او	البابية بالمالية المراقع		and a sector of the second	الالالية المارية المراجعة المارية. المحمد المراجع	الالاحكام الأربيط <sub>وجو</sub> رال منابع والمسالة المامين ا	أمحير الطريفة الاستأثالية الا	
verifi (Contration) (Specifi	and the Constant	a la de la construcción de la const	and the second second		a substantia de la constantia de la constan				
-60 dBm									
-70 dBm									
Start 10.0	GHz			2000	1 pts			Stop	30.0 GHz
					Mea	suring		1/0	13.04.2018 05:57:05

Date: 13.APR.2018 05:57:06



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Spectrum	1	)										
Ref Level	35.0	IO dBm	I	Offset	5.00 dB (	■ RBW	' 100 ki	Hz				
🗕 Att		40 dB	•	SWT	10 ms (	● VBW	/ 300 ki	Hz Mode	Auto FFT			
😑 1Pk Max												
30 dBm								M	1[1]	1		42.33 dBm ).7320 MHz 
20 dBm												
10 dBm												
0 dBm												
-10 dBm												
-20 dBm		25.000	dDa									
-30 dBm	01 -2											
-40 dBm	k rasta ak	يد بأسريد	اريد		della e e culture		entande attest	n sela na suasian harana	a da antida ar a Mila da antida a		Nilling of the public build of the	M1
-50'dBm		AHADipat	odelare					n dharain a daoin ba			The second s	and program in the product
-60 dBm												
Start 30.0	MHz						2000	1 pts				p 1.0 GHz
[	П							Mea	suring		1,70	13.04.2018 05:46:40 //

#### 6.1.1.1.2 Test Channel = MCH

Date: 13.APR.2018 05:46:40



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Spectrum	ιÌ											[₩
Ref Level				Offset SWT	5.00 dB 👄 100 ms 👄				Auto Sweep	)		
● 1Pk Max								Mode		,		
30 dBm	1	<del>M1</del> T						N	41[1]			26.02 dBm 526100 GHz
20 dBm												
10 dBm												
0 dBm												
-10 dBm—												
-20 dBm												
-30 dBm	D1 -25				a particular de la constante	ana an an	المراجع والمراجع			L. Markey Markey & Holison		
of Asseletellability www.contentionality.com	an fra tit fra fut a na fra an an an		r annabh Cannabh	anna guinn an thair Anna an thairtean an	and a state of the	Sa Seeblate	eléle <sub>n d</sub> a electro			an ballana bahanan da bir	The state of the second st	and the second property loss of the
-50 dBm												
-60 dBm												
Start 1.0 G	Hz		1		1	_1	20001	l pts	1	1	Stop	0 10.0 GHz
	)[							) Me	asuring		LXI	13.04.2018 05:55:25

Date: 13.APR.2018 05:55:25



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Spectrum	ι								
	1 20.00 dB			RBW 1 MHz					
🗕 Att	25 d	B 👄 SWT	100 ms 👄	VBW 3 MHz	: Mode A	uto Sweep			
⊖1Pk Max			1						
					M	1[1]			47.28 dBm
						1	1	19.8	21000 GHz
10 dBm									
0 dBm									
-10 dBm									
-20 dBm									
	D.1								
	D1 -25.00	U aBM							
-30 dBm—									
-40 dBm									
				M1					
" <sub>ո</sub> ֆԳ"ժՑթե <sub>րվա</sub>	and Transformer	a subsection of the section of the s		In the state of the state of the		ייזיר א <mark>ויין איין איירייי</mark>	and the start of the set	And the standard	adaqueta liter ha
ورجي الكريف مقطيتهم		and a second	I had be dispetions	and the second second	and the state strengther	Plantin and a share	فالوحاني الجريحات والعراق	the offer offer a first stand	in the second second second
-60 dBm									
-70 dBm—									
-70 0011									
Start 10.0	GHz		1	2000	1 pts	I	I	Stop	30.0 GHz
	)[				) Mea	isuring		<b>1</b> 70	13.04.2018 05:57:30

Date: 13.APR.2018 05:57:30



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	0.1.1.1	.5							_
Spectrun	n								[₩
Ref Leve Att			Offset SWT	 <b>RBW</b> 100 k <b>VBW</b> 300 k		Auto FFT			
⊖1Pk Max									
30 dBm					M	1[1]	1		41.47 dBm 0.4900 MHz
20 dBm									
10 dBm									
0 dBm									
-10 dBm—									
-20 dBm—									
-30 dBm	D1 -25.	.000 a	Bm						
-40 dBm							a. 41	441 .	M1
-50 dBm				an a	a selection de la selección de La selección de la selección de	an a			
-60 dBm									
Start 30.0	MHz			2000	1 pts		1	l	p 1.0 GHz
	)[					suring			3.04.2018  05:47:03 //

#### 6.1.1.1.3 Test Channel = HCH

Date: 13.APR.2018 05:47:03



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Spectrum										
Ref Level					RBW 1 MHz					
Att	40	)dB (	SWT	100 ms 👄	VBW 3 MHz	Mode /	Auto Sweep			
●1Pk Max										
00 d0						N	11[1]			25.86 dBm
30 dBm	M						1	1	2.5	51300 GHz
20 dBm										
10 dBm										
10 0.2.00										
0 dBm										
-10 dBm——										
-20 dBm										
-30 dBm	D1 -25.0	00 di								
n and the	رور وبالمافرون	والمراجع والمراجع	ول والعالة وقيرو ومن	a successive successiv			an a start and a start of the	In prototoladant		discourse allowing of the
-40 dBm	يسي والخطائيين	And the second s	and the second secon						dan santar .	
-50 dBm										
-60 dBm		_								
Start 1.0 G	Hz				2000:	L pts		1	lStop	 10.0 GHz
	][					) Mea	asuring		170	13.04.2018 05:54:27 //

Date: 13.APR.2018 05:54:27



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Spectrun	ъ									( <del>m</del>
Ref Leve	l 20.00	) dBm	Offset	5.00 dB 👄	RBW 1 MHz	:				
e Att	2	25 dB	SWT	100 ms 👄	<b>УВЖ</b> З МН2	Mode A	uto Sweep			
⊖1Pk Max				-						
						M	1[1]			47.81 dBm
10 dBm									14.9	56300 GHz
0 dBm										
-10 dBm										
-20 dBm—										
-30 dBm	-D1 -25	.000 (	dBm							
-40 dBm			M1							
utSQudBpd	nta lle spatiality	<u>alitat</u> zia		With a Martine		-	and the state of the		hard Annaly Market	اللية الم <mark>روالسالي المرا</mark> لية
digenticity and the participation of the participation of the participation of the participation of the particip	phillipping the second	with a staff	and the different sector	the state of the second second	algebra di settori di	All along other stands	flattigth gthoff	disation to the	and a state of the s	
-60 dBm										
-70 dBm—										
Start 10.0	GHz				2000	1 pts			Stop	30.0 GHz
						Mea	suring		1/0	13.04.2018 05:57:53

Date: 13.APR.2018 05:57:53



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### 7 Field Strength of Spurious Radiation

### 7.1 For LTE

#### 7.1.1 Test Band = LTE BAND 7

#### 7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.000000	-82.33	-25.00	57.33	Vertical
124.950000	-86.54	-25.00	61.54	Vertical
1213.000000	-66.30	-25.00	41.30	Vertical
5002.000000	-58.04	-25.00	33.04	Vertical
7503.200000	-56.26	-25.00	31.26	Vertical
10004.400000	-61.25	-25.00	36.25	Vertical
62.150000	-78.21	-25.00	53.21	Horizontal
104.300000	-82.35	-25.00	57.35	Horizontal
1101.500000	-66.65	-25.00	41.65	Horizontal
5002.000000	-56.52	-25.00	31.52	Horizontal
7503.200000	-43.99	-25.00	18.99	Horizontal
10004.400000	-55.96	-25.00	30.96	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.150000	-81.90	-25.00	56.90	Vertical
125.000000	-85.99	-25.00	60.99	Vertical
1247.500000	-66.48	-25.00	41.48	Vertical
5171.000000	-45.15	-25.00	20.15	Vertical
7578.275000	-58.14	-25.00	33.14	Vertical
10104.500000	-62.21	-25.00	37.21	Vertical
63.200000	-78.30	-25.00	53.30	Horizontal
104.300000	-82.64	-25.00	57.64	Horizontal
1138.500000	-67.29	-25.00	42.29	Horizontal
5052.050000	-57.34	-25.00	32.34	Horizontal
7578.275000	-45.38	-25.00	20.38	Horizontal
10104.175000	-57.55	-25.00	32.55	Horizontal



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7.1.1.1.3	Test Channel = HC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.300000	-81.97	-25.00	56.97	Vertical
174.300000	-87.14	-25.00	62.14	Vertical
434.000000	-71.84	-25.00	46.84	Vertical
5102.100000	-58.45	-25.00	33.45	Vertical
7653.350000	-60.23	-25.00	35.23	Vertical
10204.275000	-63.11	-25.00	38.11	Vertical
62.750000	-78.11	-25.00	53.11	Horizontal
104.300000	-82.36	-25.00	57.36	Horizontal
434.050000	-79.37	-25.00	54.37	Horizontal
5102.100000	-60.81	-25.00	35.81	Horizontal
7653.350000	-46.22	-25.00	21.22	Horizontal
10204.275000	-60.11	-25.00	35.11	Horizontal

### NOTE:

- 1) 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/TM1 20MHz	LCH	TN	VL	9.37	0.003733	PASS
				VN	10.16	0.004048	PASS
				VH	-11.34	-0.004518	PASS
		MCH	TN	VL	7.38	0.002911	PASS
				VN	7.57	0.002986	PASS
				VH	-20.61	-0.008130	PASS
		НСН		VL	-7.95	-0.003105	PASS
LTEBAND			TN	VN	7.25	0.002832	PASS
				VH	-17.52	-0.006844	PASS
7	LTE/TM2 20MHz	LCH	TN	VL	13.78	0.005490	PASS
				VN	11.60	0.004622	PASS
				VH	11.04	0.004398	PASS
		МСН	TN	VL	-9.16	-0.003613	PASS
				VN	-10.94	-0.004316	PASS
				VH	10.13	0.003996	PASS
		нсн т	TN	VL	-9.98	-0.003898	PASS
				VN	-11.60	-0.004531	PASS
				VH	-9.86	-0.003852	PASS



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### 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/TM1 20MHz	LCH	VN	-30	9.36	0.003729	PASS
				-20	14.58	0.005809	PASS
				-10	12.63	0.005032	PASS
				0	11.92	0.004749	PASS
				10	14.43	0.005749	PASS
				20	-7.78	-0.003069	PASS
				30	10.97	0.004327	PASS
				40	7.81	0.003081	PASS
				50	7.97	0.003144	PASS
		МСН	VN	-30	7.00	0.002761	PASS
				-20	9.97	0.003895	PASS
				-10	8.93	0.003488	PASS
				0	11.44	0.004469	PASS
LTEBAND 7				10	-10.41	-0.004066	PASS
				20	10.09	0.003941	PASS
				30	12.02	0.004803	PASS
				40	13.39	0.005351	PASS
				50	8.93	0.003568	PASS
		НСН	VN	-30	10.70	0.004276	PASS
				-20	10.90	0.004356	PASS
				-10	7.14	0.002817	PASS
				0	9.36	0.003729	PASS
				10	14.58	0.005809	PASS
				20	12.63	0.005032	PASS
				30	11.92	0.004749	PASS
				40	14.43	0.005749	PASS
				50	-7.78	-0.003069	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		LCH	VN	-30	-8.30	-0.003274	PASS	
				-20	11.10	0.004332	PASS	
				-10	9.94	0.003879	PASS	
				0	6.28	0.002451	PASS	
				10	10.91	0.004258	PASS	
				20	10.50	0.004098	PASS	
				30	8.74	0.003482	PASS	
				40	11.36	0.004526	PASS	
				50	13.80	0.005498	PASS	
	LTE/TM2 20MHz	МСН	VN	-30	7.05	0.002809	PASS	
				-20	6.41	0.002554	PASS	
				-10	10.87	0.004288	PASS	
				0	9.63	0.003799	PASS	
LTEBAND 7				10	11.19	0.004414	PASS	
				20	12.36	0.004876	PASS	
				30	-8.47	-0.003341	PASS	
				40	-9.80	-0.003828	PASS	
				50	8.07	0.003152	PASS	
		НСН	VN	-30	7.22	0.002820	PASS	
				-20	-7.54	-0.002945	PASS	
				-10	-9.98	-0.003898	PASS	
				0	-8.30	-0.003274	PASS	
				10	11.10	0.004332	PASS	
				20	9.94	0.003879	PASS	
				30	6.28	0.002451	PASS	
				40	10.91	0.004258	PASS	
				50	10.50	0.004098	PASS	

The End