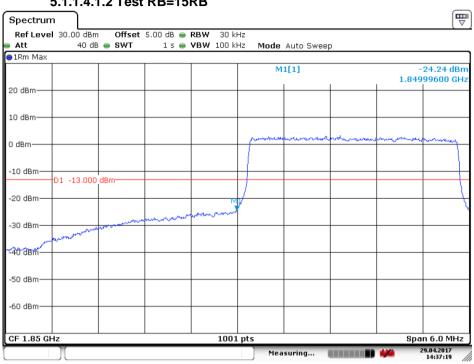


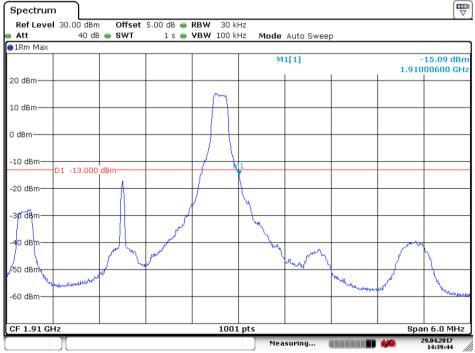
Report No.: SZEM171001110301 47 of 73 Page:



Date: 29.APR.2017 14:37:19







Date: 29.APR.2017 14:39:44

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5.1.1.4.1.2 Test RB=15RB



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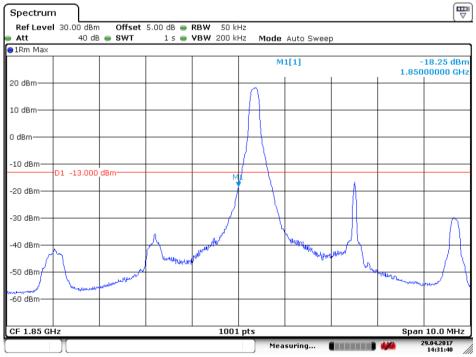
5.1.1.4.3 Test RB=15RB

Date: 29.APR.2017 14:40:31

5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 29.APR.2017 14:31:40

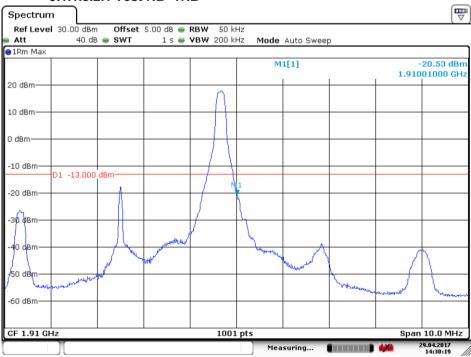


Report No.: SZEM171001110301 Page: 49 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ●1Rm Max M1[1] -20.01 dBn 1.84999000 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.85 GHz 29.04.2017 14:33:54 Measuring...

Date: 29.APR.2017 14:33:55





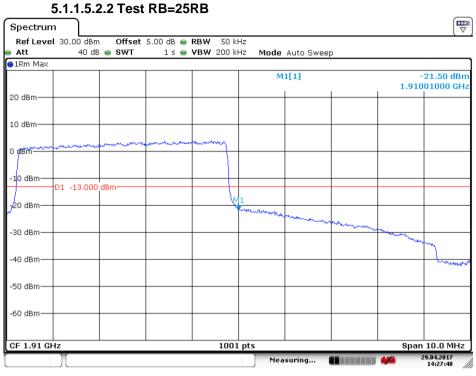
5.1.1.5.2.1 Test RB=1RB

5.1.1.5.1.2 Test RB=25RB

Date: 29.APR.2017 14:30:19



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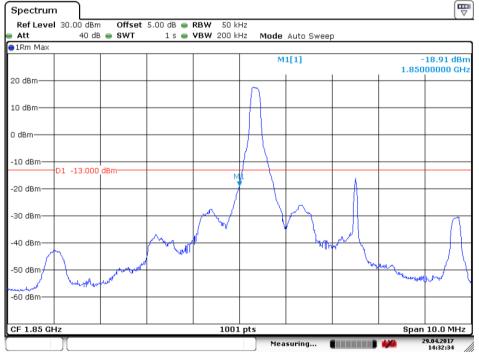


Date: 29.APR.2017 14:27:49

5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 29.APR.2017 14:32:34



Report No.: SZEM171001110301 Page: 51 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] -21.38 dBn 1.84999000 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.85 GHz 29.04.2017 14:33:20 Measuring...

Date: 29.APR.2017 14:33:19





5.1.1.6.2.1 Test RB=1RB

5.1.1.6.1.2 Test RB=25RB

Date: 29.APR.2017 14:29:41



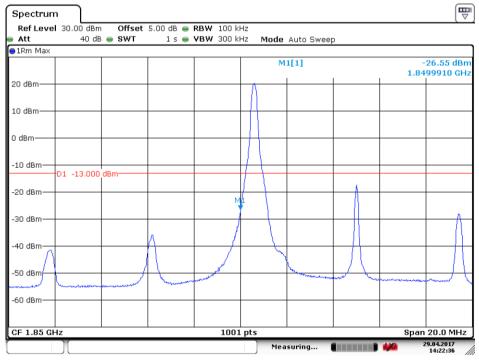
Report No.: SZEM171001110301 Page: 52 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] -21.79 dBn 1.91001000 GH 20 dBm-10 dBm· n di -10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm--60 dBm 1001 pts Span 10.0 MHz CF 1.91 GHz 29.04.2017 14:28:23 Measuring...

Date: 29.APR.2017 14:28:23

5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 29.APR.2017 14:22:36

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5.1.1.6.2.2 Test RB=25RB

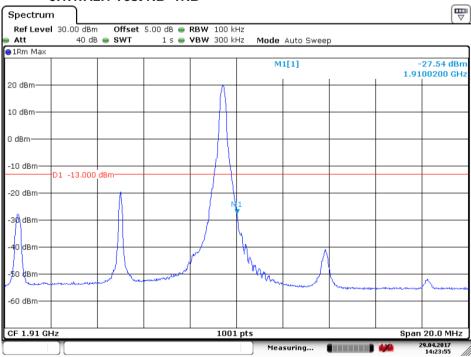


Report No.: SZEM171001110301 Page: 53 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 22.38 dBn 1.8499910 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.85 GHz 29.04.2017 14:20:17 Measuring... Concerned in the second second

Date: 29.APR.2017 14:20:17





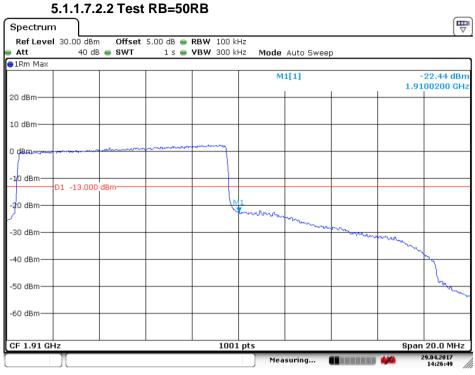
5.1.1.7.2.1 Test RB=1RB

5.1.1.7.1.2 Test RB=50RB

Date: 29.APR.2017 14:23:55



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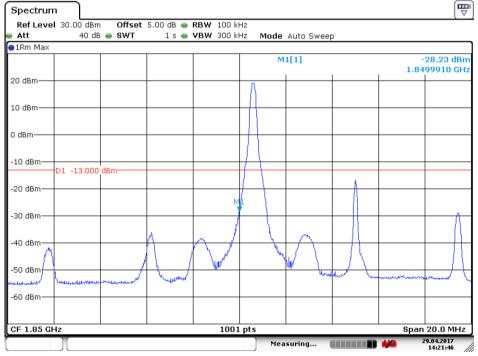


Date: 29.APR.2017 14:26:50

5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 29.APR.2017 14:21:46

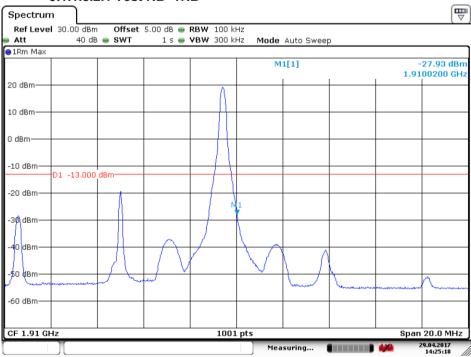


Report No.: SZEM171001110301 Page: 55 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 24.15 dBn 1.8499910 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm--50 dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.85 GHz 29.04.2017 14:21:04 Measuring...

Date: 29.APR.2017 14:21:05





5.1.1.8.2.1 Test RB=1RB

5.1.1.8.1.2 Test RB=50RB

Date: 29.APR.2017 14:25:18



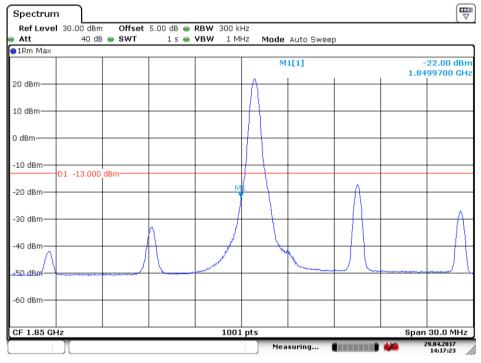
Report No.: SZEM171001110301 Page: 56 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 23.15 dBn 1.9100200 GH 20 dBm-10 dBm· 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm--60 dBm 1001 pts Span 20.0 MHz CF 1.91 GHz 29.04.2017 14:26:12 Measuring... Concerned.

Date: 29.APR.2017 14:26:12

5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 29.APR.2017 14:17:24

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5.1.1.8.2.2 Test RB=50RB

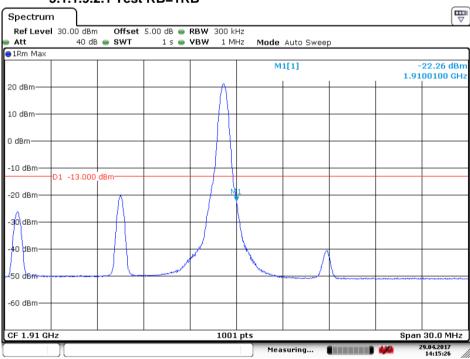


Report No.: SZEM171001110301 Page: 57 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 300 kHz Att 40 dB 👄 SWT 1 s 👄 VBW 1 MHz Mode Auto Sweep ⊖1Rm Ma M1[1] -18.77 dBn 1.8499700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm; -40 dBm -50 dBm -60 dBm 1001 pts Span 30.0 MHz CF 1.85 GHz 29.04.2017 14:19:03 Measuring...

Date: 29.APR.2017 14:19:03





5.1.1.9.2.1 Test RB=1RB

5.1.1.9.1.2 Test RB=75RB

Date: 29.APR.2017 14:15:26



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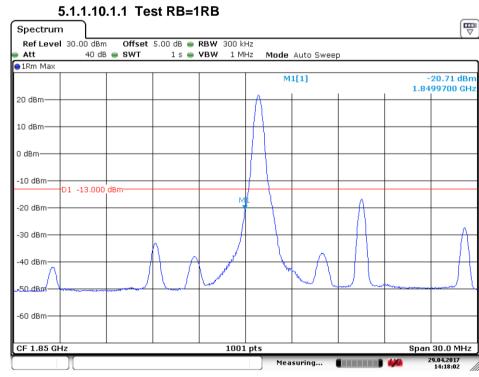


5.1.1.9.2.2 Test RB=75RB

Date: 29.APR.2017 14:13:18

5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH



Date: 29.APR.2017 14:18:02



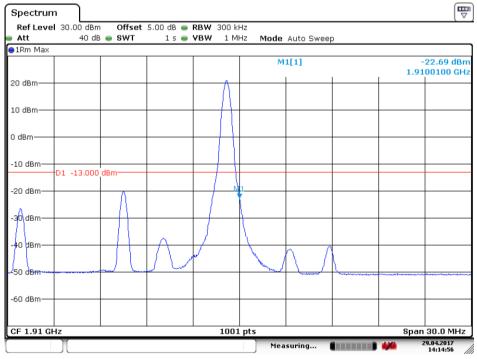
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5.1.1.10.1.2 Test RB=75RB

Date: 29.APR.2017 14:18:31





5.1.1.10.2.1 Test RB=1RB

Date: 29.APR.2017 14:14:57



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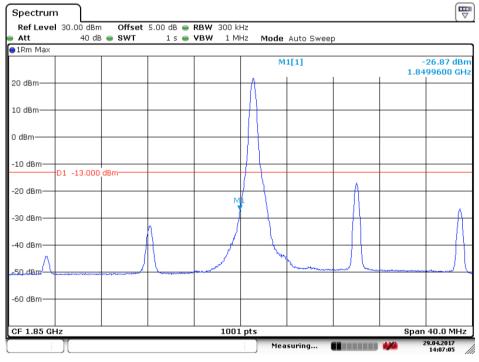


5.1.1.10.2.2 Test RB=75RB

Date: 29.APR.2017 14:14:06

5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 29.APR.2017 14:07:05

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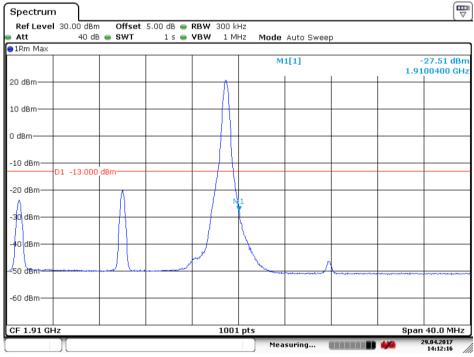
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5.1.1.11.1.2 Test RB=100RB

Date: 29.APR.2017 14:09:30





5.1.1.11.2.1 Test RB=1RB

Date: 29.APR.2017 14:12:16



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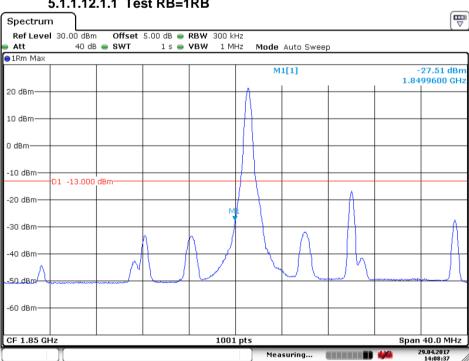


5.1.1.11.2.2 Test RB=100RB

Date: 29.APR.2017 14:10:30

5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH



5.1.1.12.1.1 Test RB=1RB

Date: 29.APR.2017 14:08:38

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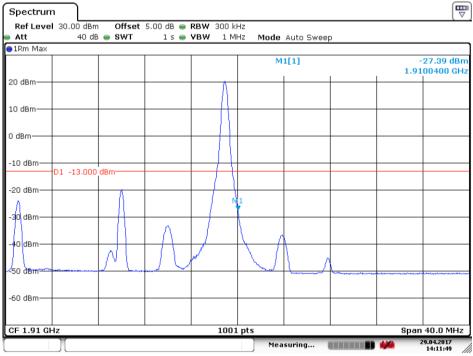
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5.1.1.12.1.2 Test RB=100RB

Date: 29.APR.2017 14:09:05





5.1.1.12.2.1 Test RB=1RB

Date: 29.APR.2017 14:11:49



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5.1.1.12.2.2 Test RB=100RB

Date: 29.APR.2017 14:11:10

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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 L - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band2

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

₽ Spectrum Ref Level 20.00 dBm Offset 5.00 dB 👄 RBW 100 kHz 25 dB Att SWT 1.1 ms 👄 **VBW** 300 kHz Mode Auto FFT ●1Pk Max M1[1] -56.49 dBn 950.0720 MH 10 dBm 0 dBm -10 dBm· D1 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm M1 -60 ⁻¹8m--70 dBm Start 30.0 MHz 20001 pts Stop 1.0 GHz Measuring... 29.04.2017 16:27:46

6.1.1.1.1 Test Channel = LCH

Date: 29.APR.2017 16:27:47

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									eport No. age:	: SZEM17100111 66 of 73	10301
Spectrum											
Ref Level		m Offset	5.00 dB 👄 I	RRW 1 MHz					[\Box]		
Att 🗧	25 (BW 3 MHz	Mode Au	ito Sweep					
●1Pk Max				1							
					M	1[1]			35.20 dBm 02340 GHz		
10 dBm											
0 dBm											
-10 dBm—	D1 -13.00	0 dBm									
-20 dBm—											
-30 dBm—-			M1								
-40 dBm					التقرير المطروي	ana antinin'					
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-70 dBm											
Phart 1.0.0	11-			2000	1. 1. 1. 1.			Stor	10.0 GHz		
Start 1.0 G				2000		suring			29.04.2017 16:50:36		
Date: 29.APR. Spectrum Ref Level	20.00 dB	m Offset	5.00 dB 👄 I								
Att 1Pk Max	25 (IB SWT	30 ms 😑 🕻	VBW 3 MHz	Mode Au	ito Sweep					
					м	1[1]			46.27 dBm 37260 GHz		
10 dBm											
0 dBm											
-10 dBm	D1 -13.00	0 dBm									
-20 dBm											
-30 dBm											
-40 dBm									M1		
_5Q,dBch	and the second	THE REAL PROPERTY OF	a share the second	and the second s	and the state of the state of the	and the second s	a sea la fala da fala d	line and an and	and the state		
and a second provide a second s	Installing State	the state of the s	the second second	Charles and Street and	and the second se	Contraction of Street, or other	No. of Concession, and the second	¹³ Presidential de la presidential de la presidentia de la presid	and an a state of the second		
-60 dBm											
-70 dBm											
Start 10.0	GHz			2000	1 pts	I		Stop	20.0 GHz		
					<u>`</u>	suring			16.05.2017 16:47:50		

Date: 16.MAY.2017 16:47:51

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Spectrur	n]								
	1 20.00 dBm			RBW 100 kH					
Att 1Pk Max	25 dB	SWT	1.1 ms 📟	VBW 300 kH	12 Mode .	Auto FFT			
					M	1[1]			-55.86 dBm
10 dBm						I	I	949	9.7320 MHz
10 dBm-									
0 dBm									
0.0011									
-10 dBm—									
	D1 -13.000	dBm							
-20 dBm									
-30 dBm									
10 10									
-40 dBm—									
-50 dBm									
-30 abiii									M1
-69/ ⁻¹⁸ m	والمتعامل والمراجع				a tite of an and a strike	an to alter to did th		And an a bandle	and the state of the
	dealer was used a particular		a piteline interiore destantes		dang si pang gan ja	and black the discussion	"Tupperson 1	a strated and the	antenne "treaser
-70 dBm									
Start 30.0	MHz			2000	1 pts			Sto	op 1.0 GHz
)(suring			29.04.2017 16:28:15
	.2017 16:28:1	5							
Spectrur	n								
Spectrur Ref Leve	n 1 20.00 dBm	Offset		RBW 1 MHz VBW 3 MHz		ito Sweep			
Spectrur	n	Offset		RBW 1 MHz VBW 3 MHz		ito Sweep			
Spectrur Ref Leve Att	n 1 20.00 dBm	Offset			Mode Au	ito Sweep			-35.95 dBm
Spectrur Ref Leve Att 1Pk Max	n 1 20.00 dBm	Offset			Mode Au				
Spectrur Ref Leve Att	n 1 20.00 dBm	Offset			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max	n 1 20.00 dBm	Offset			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max	n 1 20.00 dBm	Offset			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max 10 dBm- 0 dBm-	n 1 20.00 dBm	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 1Pk Max 10 dBm- 0 dBm-	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att IPk Max 0 dBm	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	n	Offset SWT			Mode Au				-35.95 dBm
Spectrur Ref Leve Att IPk Max 0 dBm	n	Offset SWT			Mode Au	1[1]			-35.95 dBm
Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm
Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm
Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	n	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm
Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	n	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm
Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm	n	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm
Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm	n 25 dB	Offset SWT			Mode Au	1[1]		5.6	-35.95 dBm

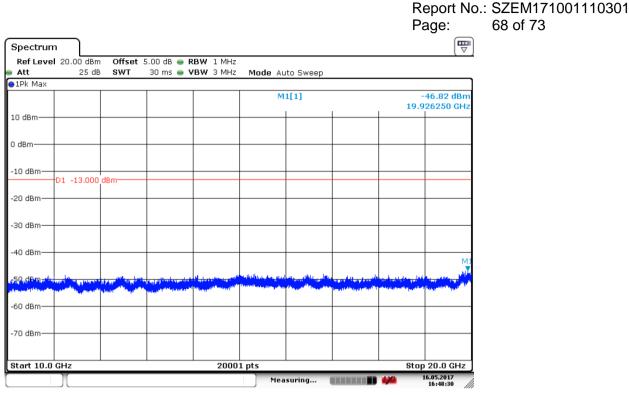
6.1.1.1.2 Test Channel = MCH

Date: 29.APR.2017 16:49:47

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Date: 16.MAY.2017 16:48:30



Spectrum	τ							
	20.00 dBm		5.00 dB 👄 🖡					
Att	25 dB	SWT	1.1 ms 👄 🕻	/BW 300 kH	z Mode	Auto FFT		
⊜1Pk Max								
					M	1[1]		-56.98 dBn 2.5450 MH
10 dBm							907	
0 dBm——								
-10 dBm								
-20 dBm	D1 -13.000	dBm						
-30 dBm								
-40 dBm								
-50 dBm								M1
-60 ^H BM			an taning the second					and the second s
-70 dBm								
Start 30.0	MHz			2000	1 pts		Sto	p 1.0 GHz
					Mea	isuring	444	29.04.2017 16:28:43

Date: 29 APR 2017 16:28:43

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								P	age:
Spectrur	n								
	el 20.00 dBm	Offset	5.00 dB 🥌 🖪	RBW 1 MHz					(•
Att	25 dB	SWT	27 ms 😑 🎙	BW 3 MHz	Mode Au	ito Sweep			
1Pk Max					M	1[1]			32.56 dBm
						1[1]			82440 GHz
10 dBm									
) dBm——									
10 d0m									
-10 dBm—	D1 -13.000	dBm							
-20 dBm									
-30 dBm			41						
			IT						
-40 dBm—									
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50id9mH			And a second second second	1000 Contraction 1000		land.	diagone and parts		
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-60 dBm									
-70 dBm									
, o abiii									
									10.0.011
Start 1.0 (GHZ			2000		suring			10.0 GHz
Spectrur Ref Leve Att	n el 20.00 dBm 25 dB		5.00 dB 👄 R 30 ms 👄 V	BW 1 MHz	Mode Au	ito Sweep			
)1Pk Max									
					м	1[1]			46.83 dBm 28750 GHz
10 dBm							l	19.9	28730 GHZ
) dBm									
10 dBm—	D1 -13.000	dBm							
	10.000								
-20 dBm—									
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									MI
50,dPm.trd	and a state of the state of the	and a state of the second	and the party of the second second	International Contraction of the other	na Majaran Mata	مليبه والأسيري	and the part of the second	ann fraite an te	and the second
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-60 dBm—									
-			1						
		1							
-70 dBm									
-70 dBm— Start 10.0) GHz			2000	· ·	suring			20.0 GHz 16.05.2017 16:48:58

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

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

7.1.1.1.1	Test Channel = MC	СН		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
73.850000	-72.05	-13.00	-59.05	Vertical
164.350000	-70.50	-13.00	-57.50	Vertical
1523.000000	-63.09	-13.00	-50.09	Vertical
3741.975000	-58.33	-13.00	-45.33	Vertical
5613.325000	-61.43	-13.00	-48.43	Vertical
7484.350000	-57.88	-13.00	-44.88	Vertical
72.300000	-77.01	-13.00	-64.01	Horizontal
163.250000	-70.46	-13.00	-57.46	Horizontal
1199.500000	-67.07	-13.00	-54.07	Horizontal
3741.975000	-50.70	-13.00	-37.70	Horizontal
5613.325000	-54.79	-13.00	-41.79	Horizontal
7484.350000	-53.97	-13.00	-40.97	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.



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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
				VL	-2.03	-0.00109	PASS
		LCH	TN	VN	1.46	0.00078	PASS
				VH	-7.73	-0.00416	PASS
				VL	1.49	0.00079	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.84	-0.00151	PASS
				VH	2.60	0.00138	PASS
		НСН		VL	-6.56	-0.00345	PASS
			TN	VN	-5.17	-0.00272	PASS
LTEband2				VH	-4.79	-0.00252	PASS
LIEDanuz			TN	VL	-4.28	-0.00230	PASS
		LCH		VN	-2.95	-0.00159	PASS
				VH	-5.16	-0.00277	PASS
				VL	1.56	0.00083	PASS
	LTE/TM2 20MHz	MCH	TN	VN	-2.80	-0.00149	PASS
				VH	2.59	0.00138	PASS
				VL	-3.08	-0.00162	PASS
		HCH	TN	VN	-8.00	-0.00421	PASS
				VH	5.44	0.00286	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
				-30	-3.55	-0.00191	PASS
				-20	-1.34	-0.00072	PASS
				-10	2.38	0.00128	PASS
				0	1.75	0.00094	PASS
		LCH	VN	10	1.65	0.00089	PASS
				20	3.11	0.00167	PASS
				30	-6.31	-0.00339	PASS
				40	-0.14	-0.00008	PASS
				50	2.59	0.00139	PASS
				-30	-7.80	-0.00415	PASS
			VN	-20	-5.95	-0.00316	PASS
				-10	-7.49	-0.00398	PASS
				0	-5.62	-0.00299	PASS
LTEband2	LTE/TM1 20MHz	MCH		10	-4.04	-0.00215	PASS
				20	-9.94	-0.00529	PASS
				30	-5.23	-0.00278	PASS
				40	-4.62	-0.00246	PASS
				50	-6.92	-0.00368	PASS
				-30	7.54	0.00397	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-2.83	-0.00149	PASS
		НСН	VN	10	2.60	0.00137	PASS
				20	-4.57	-0.00241	PASS
				30	-2.66	-0.00140	PASS
				40	-5.43	-0.00286	PASS
				50	-3.90	-0.00205	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-5.50	-0.00296	PASS
				-20	-2.45	-0.00132	PASS
				-10	3.38	0.00182	PASS
				0	1.64	0.00088	PASS
		LCH	VN	10	1.90	0.00102	PASS
				20	-2.23	-0.00120	PASS
				30	-0.44	-0.00024	PASS
				40	5.34	0.00287	PASS
				50	6.79	0.00365	PASS
				-30	-3.80	-0.00202	PASS
				-20	-5.38	-0.00286	PASS
				-10	-7.29	-0.00388	PASS
				0	-4.32	-0.00230	PASS
LTEband2	LTE/TM2 20MHz	MCH	VN	10	-2.34	-0.00124	PASS
				20	1.74	0.00093	PASS
				30	-5.64	-0.00300	PASS
				40	-2.62	-0.00139	PASS
				50	-3.91	-0.00208	PASS
				-30	1.34	0.00071	PASS
				-20	-2.55	-0.00134	PASS
				-10	1.59	0.00084	PASS
				0	-5.73	-0.00302	PASS
		HCH	VN	10	1.88	0.00099	PASS
				20	-3.47	-0.00183	PASS
				30	-2.59	-0.00136	PASS
				40	-4.33	-0.00228	PASS
				50	-6.60	-0.00347	PASS

The End

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