

Report No.: SZEM161000852202

Page: 1 of 87

Appendix B

Test Data for SZEM1610008522RG



Report No.: SZEM161000852202

Page: 2 of 87

CONTENT

		Pa	age
1	EFF	FECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	3
2	PE	AK-TO-AVERAGE RATIO	10
3	МО	DULATION CHARACTERISTICS	20
4	BAI	NDWIDTH	26
5	BAI	ND EDGES COMPLIANCE	45
6	SPU	JRIOUS EMISSION AT ANTENNA TERMINAL	69
7	FIE	LD STRENGTH OF SPURIOUS RADIATION	81
8	FRI	EQUENCY STABILITY	84
	8.1	FREQUENCY ERROR VS. VOLTAGE	84
	8.2	FREQUENCY ERROR VS. TEMPERATURE	85



Report No.: SZEM161000852202

Page: 3 of 87

1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 17

Test	Test	Test	Test	Test RB	Measured	ERP	limit	.,											
Band(LTE)	Mode	Bandwidth	channel		(dBm)	(dBm)	(dBm)	Verdict											
				RB1#0	22.57	20.16	34.70	PASS											
				RB1#13	22.55	20.14	34.70	PASS											
				RB1#24	22.51	20.10	34.70	PASS											
			LCH	RB12#0	21.51	19.10	34.70	PASS											
				RB12#6	21.53	19.12	34.70	PASS											
				RB12#13	21.50	19.09	34.70	PASS											
				RB25#0	21.46	19.05	34.70	PASS											
			МСН	RB1#0	22.59	20.18	34.70	PASS											
	LTE/TM1	5M		МСН	RB1#13	22.63	20.22	34.70	PASS										
					МСН	MCH									RB1#24	22.59	20.18	34.70	PASS
BAND17							RB12#0	21.67	19.26	34.70	PASS								
					RB12#6	21.66	19.25	34.70	PASS										
					RB12#13	21.61	19.20	34.70	PASS										
				RB25#0	21.63	19.22	34.70	PASS											
				RB1#0	22.53	20.12	34.70	PASS											
					RB1#13	22.49	20.08	34.70	PASS										
				RB1#24	22.48	20.07	34.70	PASS											
			НСН	RB12#0	21.62	19.21	34.70	PASS											
				RB12#6	21.63	19.22	34.70	PASS											
				RB12#13	21.59	19.18	34.70	PASS											
				RB25#0	21.61	19.20	34.70	PASS											



Report No.: SZEM161000852202

Page: 4 of 87

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict	
				RB1#0	21.63	19.22	34.70	PASS	
				RB1#13	21.59	19.18	34.70	PASS	
				RB1#24	21.56	19.15	34.70	PASS	
			LCH	RB12#0	20.53	18.12	34.70	PASS	
				RB12#6	20.54	18.13	34.70	PASS	
				RB12#13	20.53	18.12	34.70	PASS	
				RB25#0	20.56	18.15	34.70	PASS	
		2 5M	MCH	RB1#0	21.71	19.30	34.70	PASS	
				МСН	RB1#13	21.71	19.30	34.70	PASS
					RB1#24	21.66	19.25	34.70	PASS
BAND17	LTE/TM2				RB12#0	20.60	18.19	34.70	PASS
				RB12#6	20.57	18.16	34.70	PASS	
				RB12#13	20.51	18.10	34.70	PASS	
				RB25#0	20.60	18.19	34.70	PASS	
				RB1#0	21.67	19.26	34.70	PASS	
				RB1#13	21.68	19.27	34.70	PASS	
				RB1#24	21.66	19.25	34.70	PASS	
			HCH	RB12#0	20.63	18.22	34.70	PASS	
				RB12#6	20.67	18.26	34.70	PASS	
				RB12#13	20.67	18.26	34.70	PASS	
				RB25#0	20.69	18.28	34.70	PASS	



Report No.: SZEM161000852202

Page: 5 of 87

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict				
				RB1#0	20.68	18.27	34.70	PASS				
				RB1#13	20.44	18.03	34.70	PASS				
				RB1#24	20.43	18.02	34.70	PASS				
			LCH	RB12#0	19.54	17.13	34.70	PASS				
				RB12#6	19.38	16.97	34.70	PASS				
				RB12#13	19.36	16.95	34.70	PASS				
				RB25#0	19.46	17.05	34.70	PASS				
			MCH	RB1#0	20.74	18.33	34.70	PASS				
	LTE/TM3	5M		MCH	МСН		RB1#13	20.56	18.15	34.70	PASS	
									RB1#24	20.49	18.08	34.70
BAND17						RB12#0	19.61	17.20	34.70	PASS		
					RB12#6	19.63	17.22	34.70	PASS			
					RB12#13	19.57	17.16	34.70	PASS			
				RB25#0	19.67	17.26	34.70	PASS				
				RB1#0	20.6	18.19	34.70	PASS				
							RB1#13	20.38	17.97	34.70	PASS	
						RB1#24	20.33	17.92	34.70	PASS		
			HCH	RB12#0	19.58	17.17	34.70	PASS				
				RB12#6	19.50	17.09	34.70	PASS				
				RB12#13	19.49	17.08	34.70	PASS				
				RB25#0	19.64	17.23	34.70	PASS				



Report No.: SZEM161000852202

Page: 6 of 87

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict																							
				RB1#0	22.57	20.16	34.70	PASS																							
						RB1#25	22.56	20.15	34.70	PASS																					
				RB1#49	22.52	20.11	34.70	PASS																							
			LCH	RB25#0	21.55	19.14	34.70	PASS																							
				RB25#13	21.54	19.13	34.70	PASS																							
				RB25#25	21.54	19.13	34.70	PASS																							
				RB50#0	21.49	19.08	34.70	PASS																							
	LTE/TM1	1 10M	мсн	RB1#0	22.64	20.23	34.70	PASS																							
				МСН				RB1#25	22.64	20.23	34.70	PASS																			
																					l								1	RB1#49	22.61
BAND17					RB25#0	21.68	19.27	34.70	PASS																						
					RB25#13	21.66	19.25	34.70	PASS																						
				RB25#25	21.66	19.25	34.70	PASS																							
				RB50#0	21.64	19.23	34.70	PASS																							
				RB1#0	22.54	20.13	34.70	PASS																							
							RB1#25	22.50	20.09	34.70	PASS																				
								RB1#49	22.49	20.08	34.70	PASS																			
			НСН	RB25#0	21.66	19.25	34.70	PASS																							
				RB25#13	21.64	19.23	34.70	PASS																							
				RB25#25	21.61	19.20	34.70	PASS																							
				RB50#0	21.62	19.21	34.70	PASS																							



Report No.: SZEM161000852202

Page: 7 of 87

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict																						
							RB1#0	21.64	19.23	34.70	PASS																			
				RB1#25	21.61	19.20	34.70	PASS																						
				RB1#49	21.57	19.16	34.70	PASS																						
			LCH	RB25#0	20.56	18.15	34.70	PASS																						
				RB25#13	20.55	18.14	34.70	PASS																						
				RB25#25	20.54	18.13	34.70	PASS																						
				RB50#0	20.57	18.16	34.70	PASS																						
	LTE/TM2	2 10M		RB1#0	21.73	19.32	34.70	PASS																						
			мсн	МСН						RB1#25	21.71	19.30	34.70	PASS																
BAND17					RB25#0	20.62	18.21	34.70	PASS																					
				RB25#13	20.59	18.18	34.70	PASS																						
				RB25#25	20.56	18.15	34.70	PASS																						
				RB50#0	20.63	18.22	34.70	PASS																						
				RB1#0	21.70	19.29	34.70	PASS																						
						RB1#25	21.68	19.27	34.70	PASS																				
							RB1#49	21.66	19.25	34.70	PASS																			
			НСН	RB25#0	20.67	18.26	34.70	PASS																						
				RB25#13	20.67	18.26	34.70	PASS																						
				RB25#25	20.67	18.26	34.70	PASS																						
				RB50#0	20.70	18.29	34.70	PASS																						



Report No.: SZEM161000852202

Page: 8 of 87

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict																
				RB1#0	20.68	18.27	34.70	PASS																
				RB1#25	20.47	18.06	34.70	PASS																
				RB1#49	20.47	18.06	34.70	PASS																
			LCH	RB25#0	19.57	17.16	34.70	PASS																
				RB25#13	19.39	16.98	34.70	PASS																
				RB25#25	19.39	16.98	34.70	PASS																
		10M		RB50#0	19.48	17.07	34.70	PASS																
			мсн	RB1#0	20.75	18.34	34.70	PASS																
				мсн	RB1#25	20.57	18.16	34.70	PASS															
																					RB1#49	20.53	18.12	34.70
BAND17	LTE/TM3				RB25#0	19.65	17.24	34.70	PASS															
				RB25#13	19.63	17.22	34.70	PASS																
				RB25#25	19.62	17.21	34.70	PASS																
				RB50#0	19.67	17.26	34.70	PASS																
				RB1#0	20.64	18.23	34.70	PASS																
				RB1#25	20.41	18.00	34.70	PASS																
				RB1#49	20.36	17.95	34.70	PASS																
			НСН	RB25#0	19.59	17.18	34.70	PASS																
				RB25#13	19.54	17.13	34.70	PASS																
				RB25#25	19.50	17.09	34.70	PASS																
				RB50#0	19.67	17.26	34.70	PASS																



Report No.: SZEM161000852202

Page: 9 of 87

Note:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



Report No.: SZEM161000852202

Page: 10 of 87

2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	5.30	13	PASS
	TM1/10M	MCH	4.84	13	PASS
		НСН	5.22	13	PASS
	TM2/10M	LCH	6.06	13	PASS
Band 17		MCH	5.74	13	PASS
		HCH	6.00	13	PASS
		LCH	6.46	13	PASS
	TM3/10M	MCH	6.38	13	PASS
		нсн	6.49	13	PASS



Report No.: SZEM161000852202

Page: 11 of 87

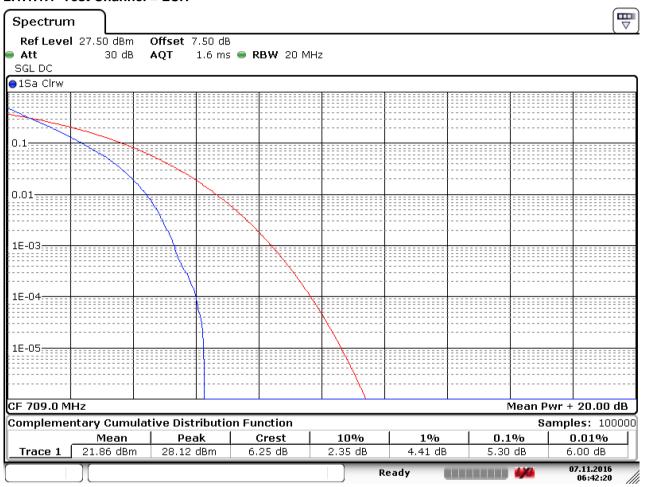
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band17

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

2.1.1.1.1 Test Channel = LCH



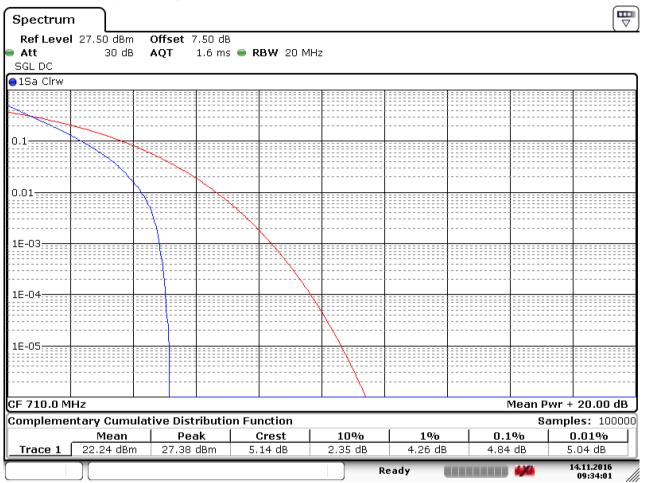
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Report No.: SZEM161000852202

Page: 12 of 87

2.1.1.1.2 Test Channel = MCH



Date: 14.NOV.2016 09:34:02



Report No.: SZEM161000852202

Page: 13 of 87

2.1.1.1.3 Test Channel = HCH



Date: 7.NOV.2016 12:47:20

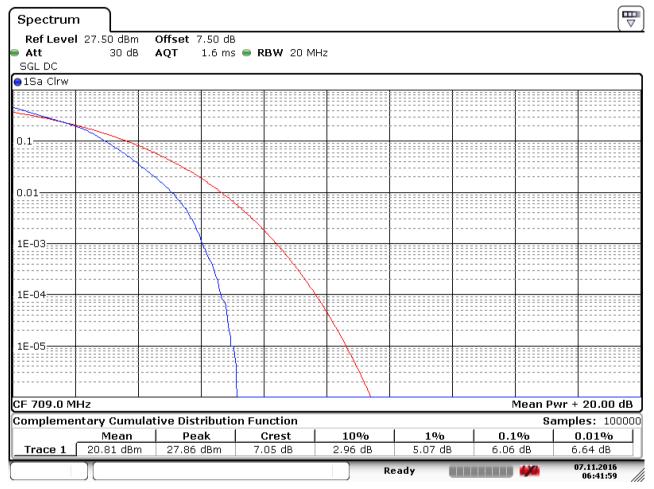


Report No.: SZEM161000852202

Page: 14 of 87

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

2.1.1.2.1 Test Channel = LCH



Date: 7.NOV.2016 06:42:00



Report No.: SZEM161000852202

Page: 15 of 87

2.1.1.2.2 Test Channel = MCH



Date: 14.NOV.2016 09:33:48



Report No.: SZEM161000852202

Page: 16 of 87

2.1.1.2.3 Test Channel = HCH



Date: 7.NOV.2016 12:48:23

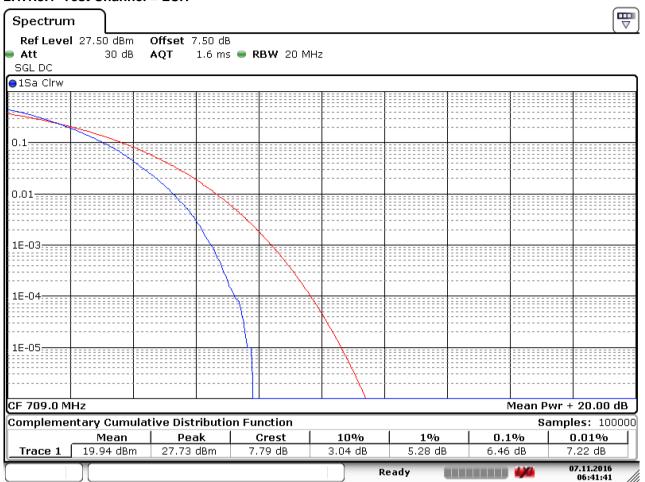


Report No.: SZEM161000852202

Page: 17 of 87

2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

2.1.1.3.1 Test Channel = LCH



Date: 7.NOV.2016 06:41:42



Report No.: SZEM161000852202

Page: 18 of 87

2.1.1.3.2 Test Channel = MCH



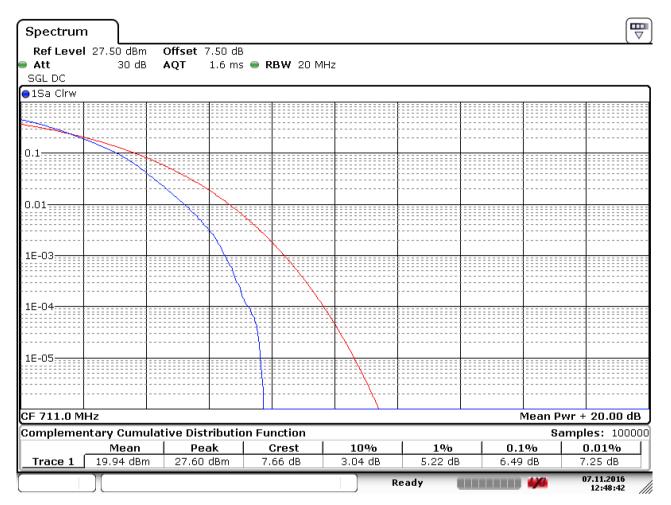
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Report No.: SZEM161000852202

Page: 19 of 87

2.1.1.3.3 Test Channel = HCH



Date: 7.NOV.2016 12:48:42



Report No.: SZEM161000852202

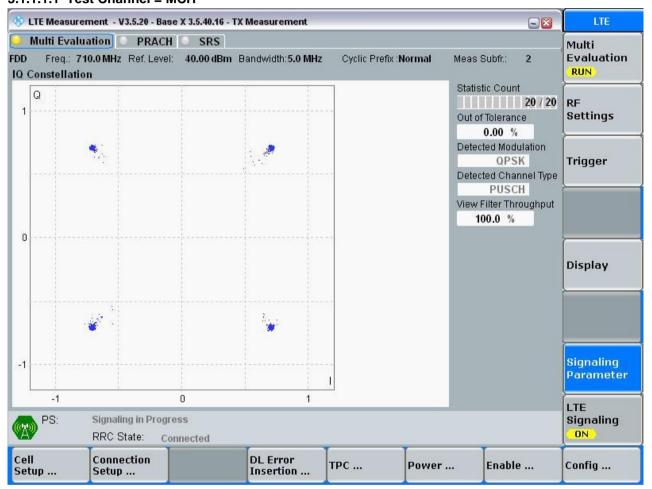
Page: 20 of 87

3 Modulation Characteristics

Part I - Test Plots

3.1 For LTE

- 3.1.1 Test Band = LTE band17
- 3.1.1.1 Test Mode = LTE /TM1 5MHz
- 3.1.1.1.1 Test Channel = MCH



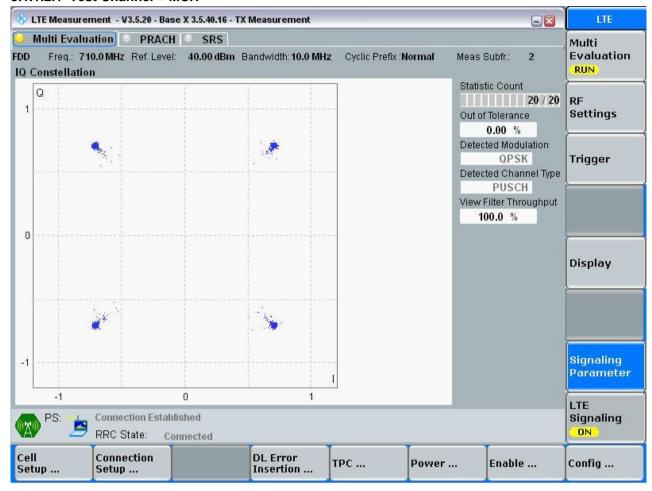


Report No.: SZEM161000852202

Page: 21 of 87

3.1.1.2 Test Mode = LTE /TM1 10MHz

3.1.1.2.1 Test Channel = MCH



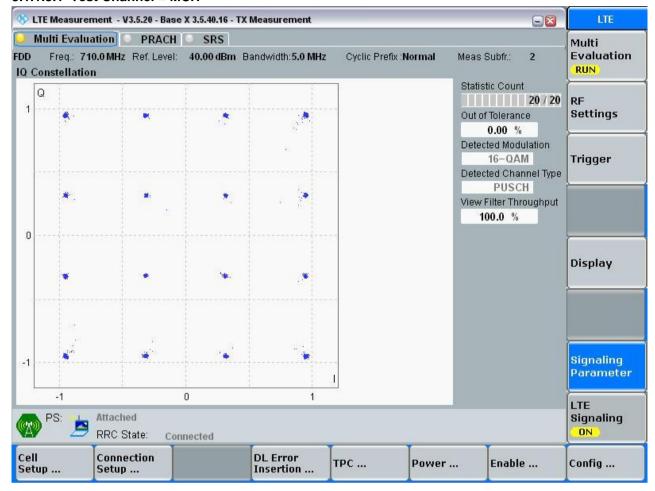


Report No.: SZEM161000852202

Page: 22 of 87

3.1.1.3 Test Mode = LTE /TM2 5MHz

3.1.1.3.1 Test Channel = MCH



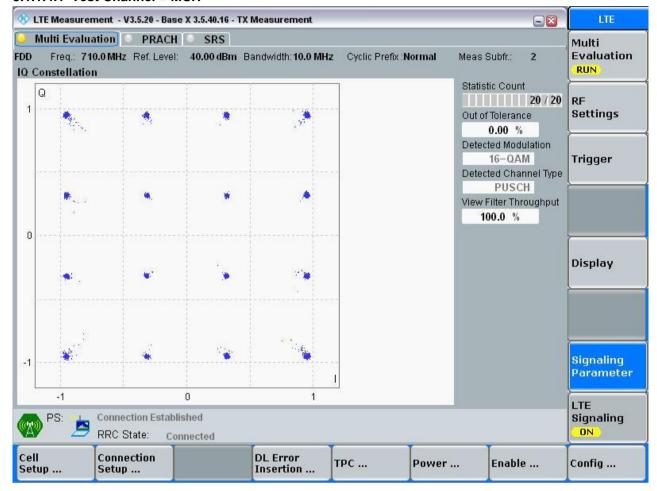


Report No.: SZEM161000852202

Page: 23 of 87

3.1.1.4 Test Mode = LTE /TM2 10MHz

3.1.1.4.1 Test Channel = MCH



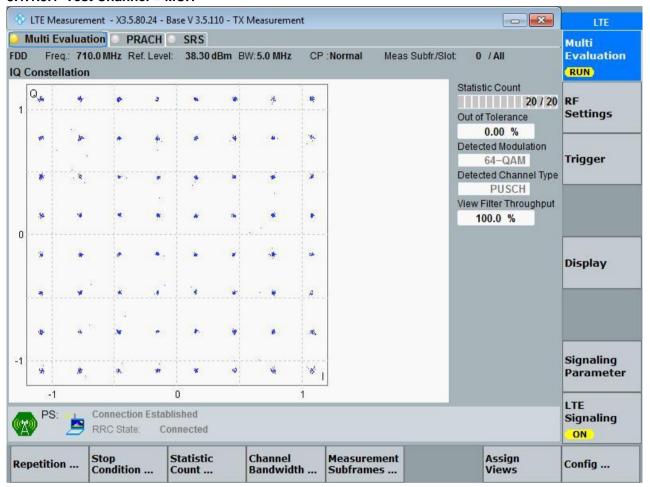


Report No.: SZEM161000852202

Page: 24 of 87

3.1.1.5 Test Mode = LTE /TM3 5MHz

3.1.1.5.1 Test Channel = MCH



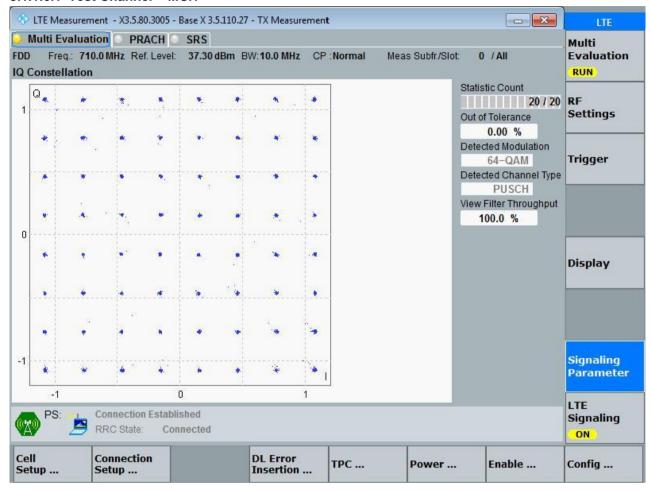


Report No.: SZEM161000852202

Page: 25 of 87

3.1.1.6 Test Mode = LTE /TM3 10MHz

3.1.1.6.1 Test Channel = MCH





Report No.: SZEM161000852202

Page: 26 of 87

4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	4.48	4.90	PASS
	TM1/5MHz	MCH	4.48	4.90	PASS
		HCH	4.46	4.86	PASS
		LCH	4.47	4.84	PASS
	TM2/ 5MHz	MCH	4.47	4.84	PASS
		HCH	4.47	4.91	PASS
		LCH	4.48	4.88	PASS
	TM3/5MHz	MCH	4.48	4.88	PASS
Band 17		HCH	4.47	4.88	PASS
Danu 17	TM1/10MHz	LCH	8.95	9.70	PASS
		MCH	8.92	9.62	PASS
		HCH	8.92	9.67	PASS
		LCH	8.96	9.67	PASS
	TM2/ 10MHz	MCH	8.95	9.68	PASS
		HCH	8.95	9.67	PASS
		LCH	8.96	9.67	PASS
	TM3/ 10MHz	MCH	8.95	9.68	PASS
		HCH	8.95	9.67	PASS



Report No.: SZEM161000852202

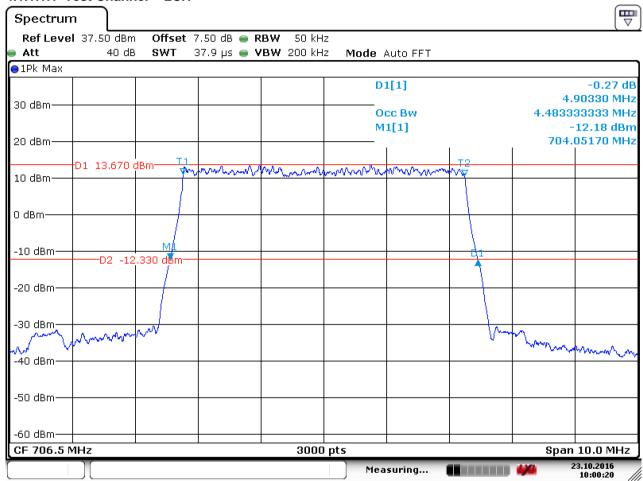
Page: 27 of 87

4.1 For LTE

4.1.1 Test Band = LTE band17

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



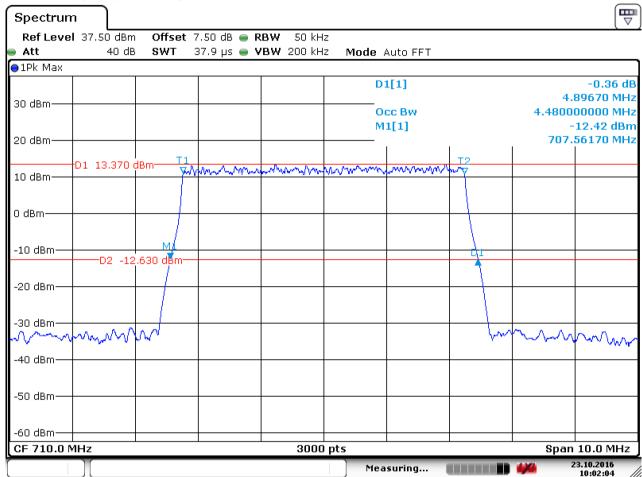
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Report No.: SZEM161000852202

Page: 28 of 87

4.1.1.1.2 Test Channel = MCH

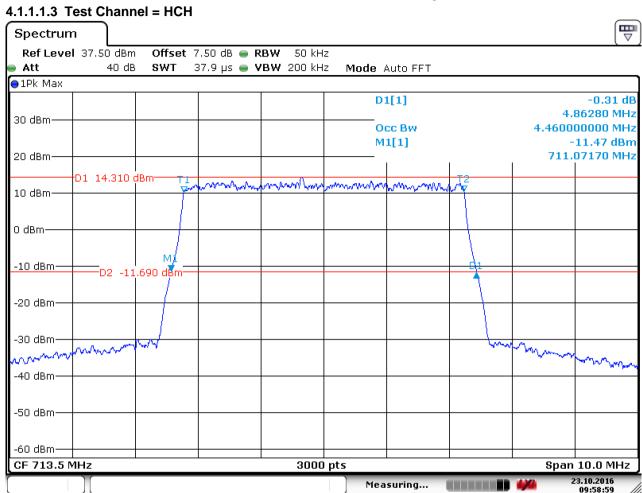


Date: 23.OCT.2016 10:02:04



Report No.: SZEM161000852202

Page: 29 of 87



Date: 23.OCT.2016 09:58:59

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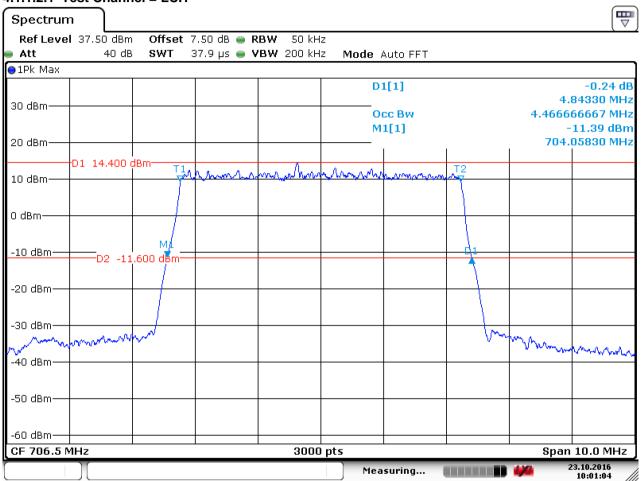


Report No.: SZEM161000852202

Page: 30 of 87

4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

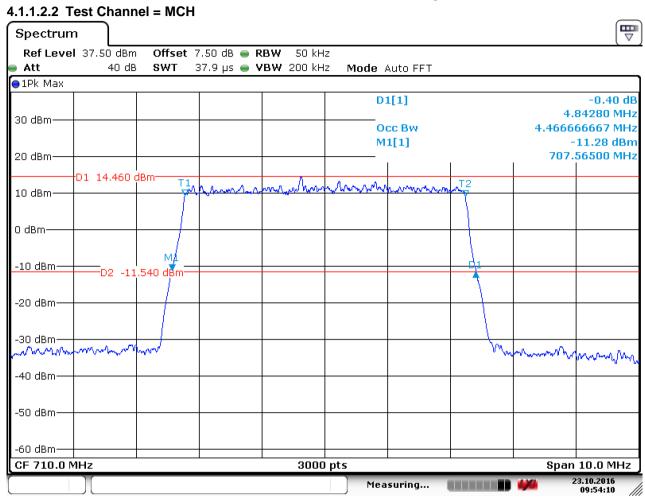


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Report No.: SZEM161000852202

Page: 31 of 87

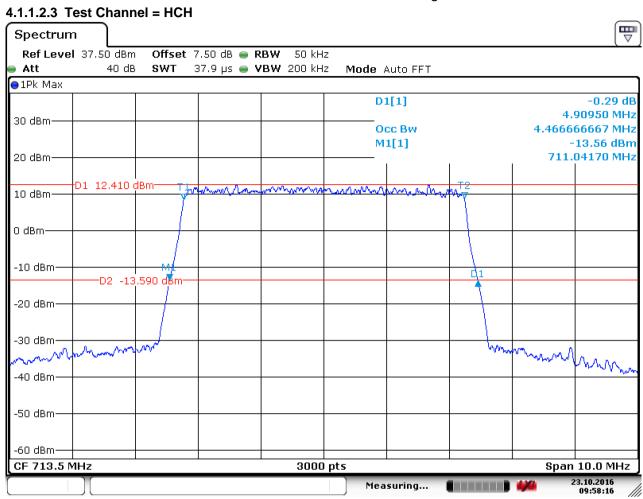


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Report No.: SZEM161000852202

Page: 32 of 87



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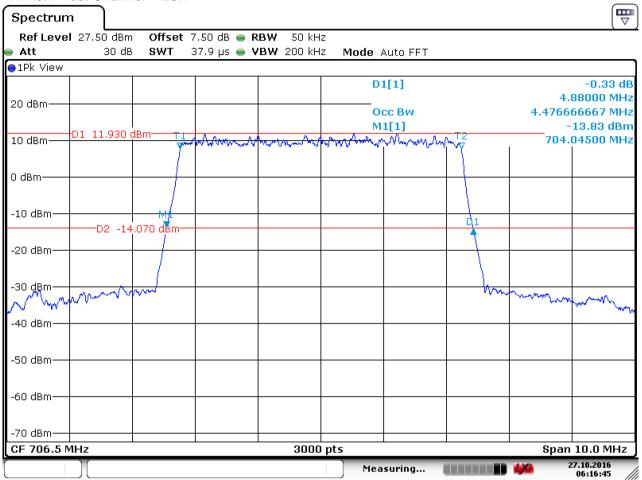


Report No.: SZEM161000852202

Page: 33 of 87

4.1.1.3 Test Mode = LTE/TM3 5MHz

4.1.1.3.1 Test Channel = LCH

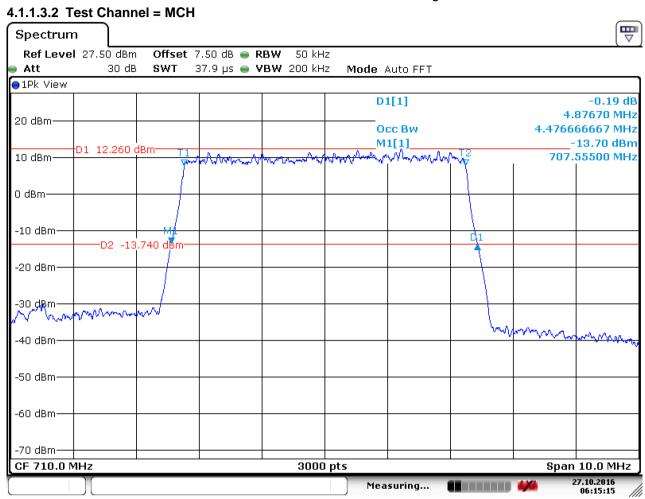


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Report No.: SZEM161000852202

Page: 34 of 87

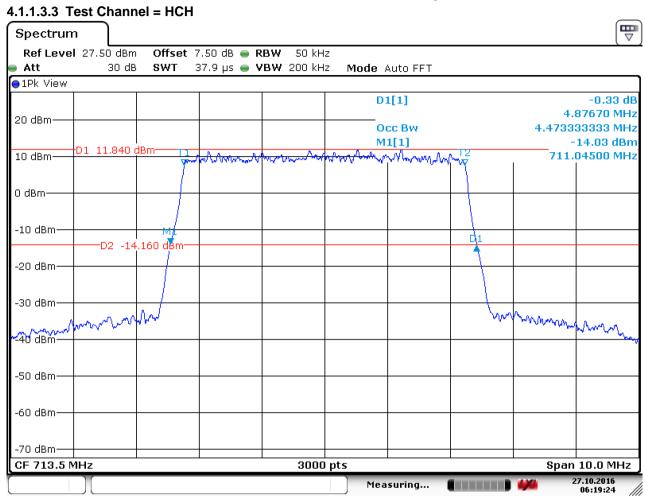


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Report No.: SZEM161000852202

Page: 35 of 87



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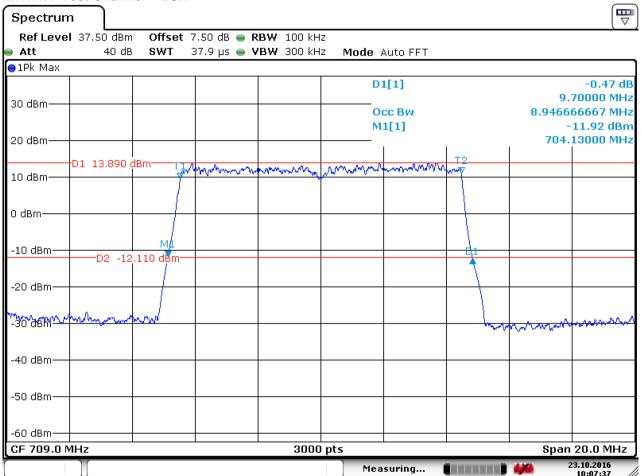


Report No.: SZEM161000852202

Page: 36 of 87

4.1.1.4 Test Mode = LTE/TM1 10MHz

4.1.1.4.1 Test Channel = LCH

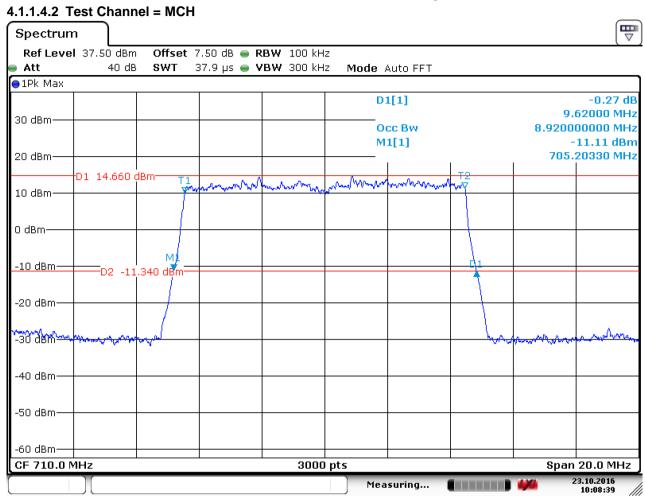


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Report No.: SZEM161000852202

Page: 37 of 87

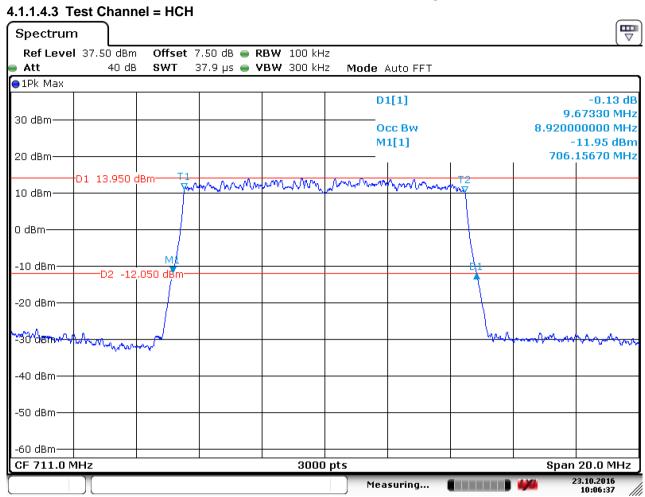


Date: 23.OCT.2016 10:08:39



Report No.: SZEM161000852202

Page: 38 of 87



Date: 23.OCT.2016 10:06:38

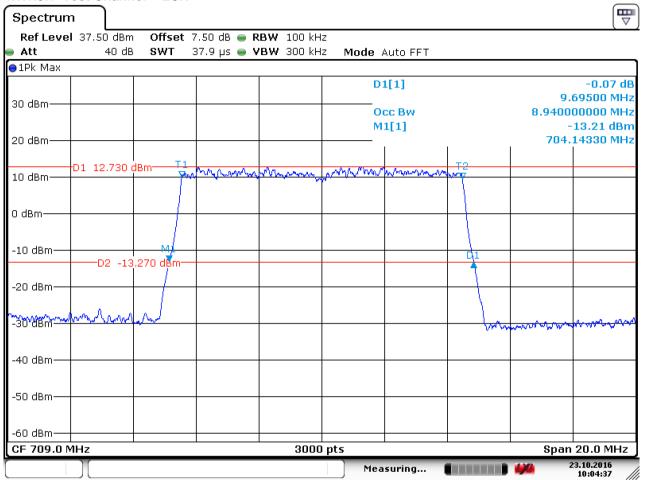


Report No.: SZEM161000852202

Page: 39 of 87

4.1.1.5 Test Mode = LTE/TM2 10MHz

4.1.1.5.1 Test Channel = LCH

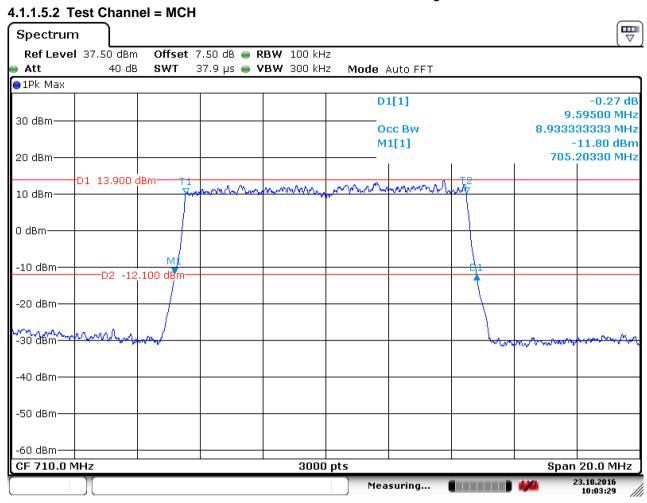


Date: 23.OCT.2016 10:04:38



Report No.: SZEM161000852202

Page: 40 of 87

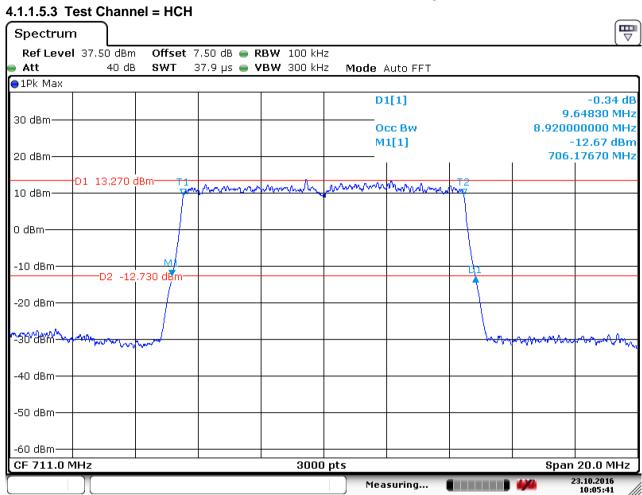


Date: 23.OCT.2016 10:03:30



Report No.: SZEM161000852202

Page: 41 of 87



Date: 23.OCT.2016 10:05:41

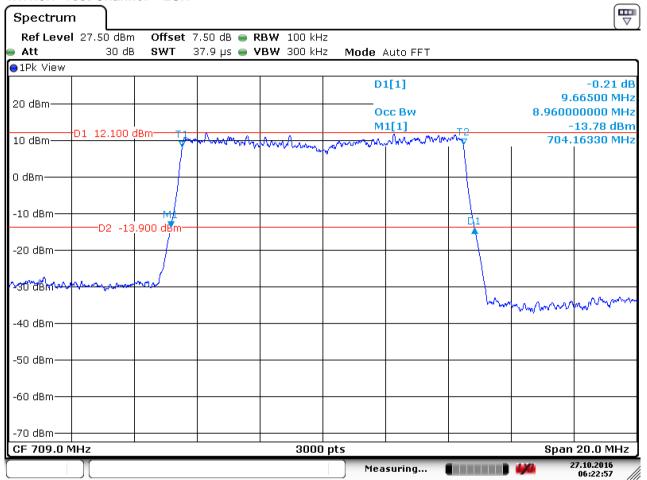


Report No.: SZEM161000852202

Page: 42 of 87

4.1.1.6 Test Mode = LTE/TM3 10MHz

4.1.1.6.1 Test Channel = LCH

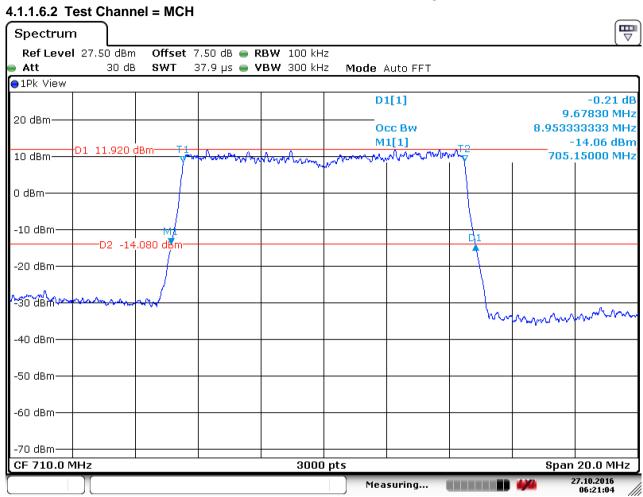


Date: 27.OCT.2016 06:22:57



Report No.: SZEM161000852202

Page: 43 of 87

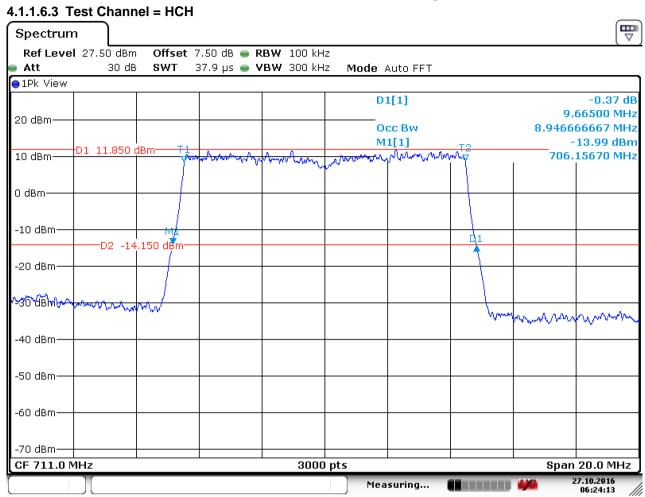


Date: 27.OCT.2016 06:21:04



Report No.: SZEM161000852202

Page: 44 of 87



Date: 27.OCT.2016 06:24:13



Report No.: SZEM161000852202

Page: 45 of 87

5 Band Edges Compliance

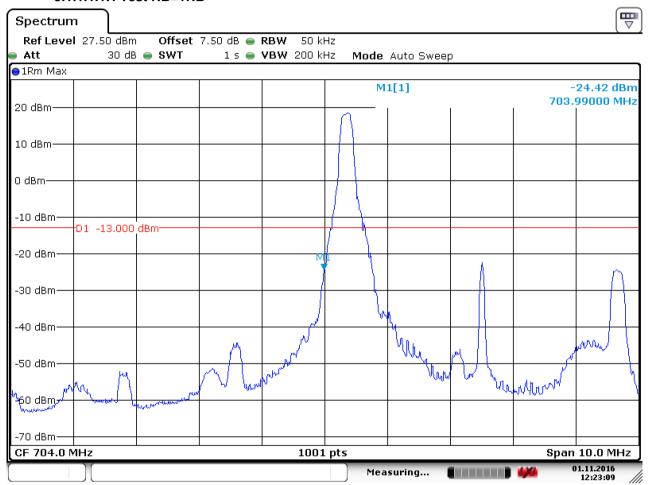
5.1 For LTE

5.1.1 Test Band = LTE band2

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



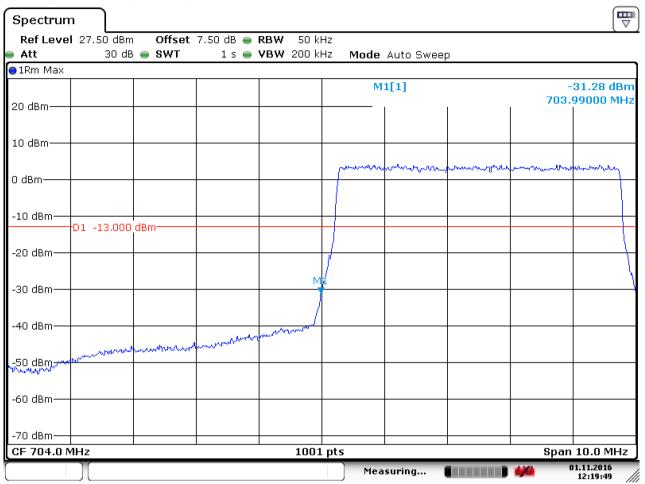
Date: 1.NOV.2016 12:23:10



Report No.: SZEM161000852202

Page: 46 of 87

5.1.1.1.1.2 Test RB=25RB



Date: 1.NOV.2016 12:19:50

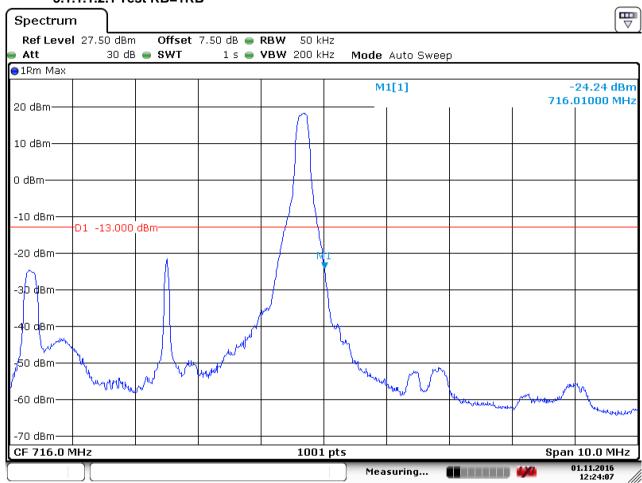


Report No.: SZEM161000852202

Page: 47 of 87

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



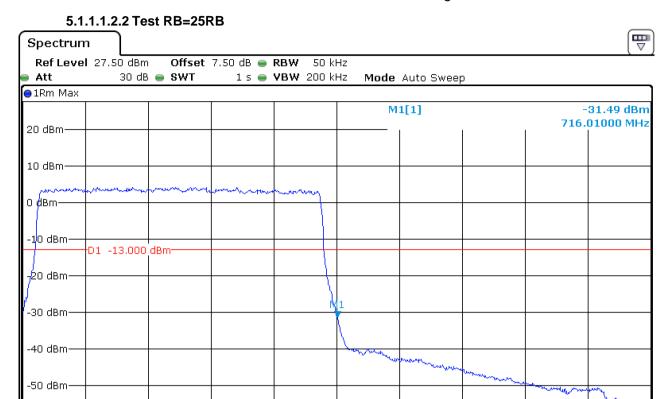
Date: 1.NOV.2016 12:24:07



Report No.: SZEM161000852202

Span 10.0 MHz 01.11.2016

Page: 48 of 87



1001 pts

Measuring...

4/4

Date: 1.NOV.2016 12:26:49

-60 dBm

-70 dBm | CF 716.0 MHz



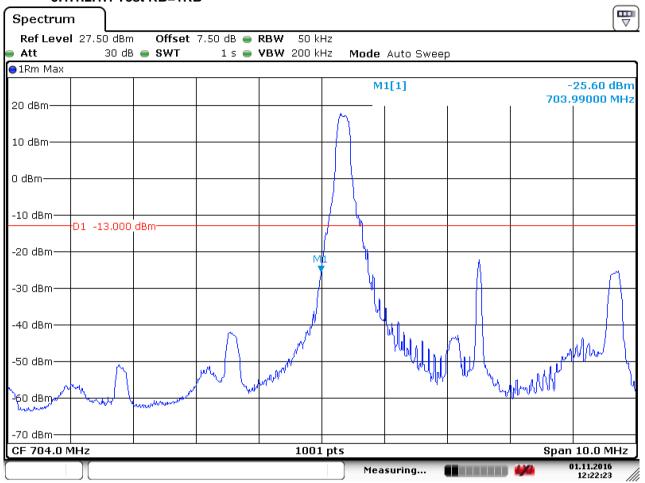
Report No.: SZEM161000852202

Page: 49 of 87

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



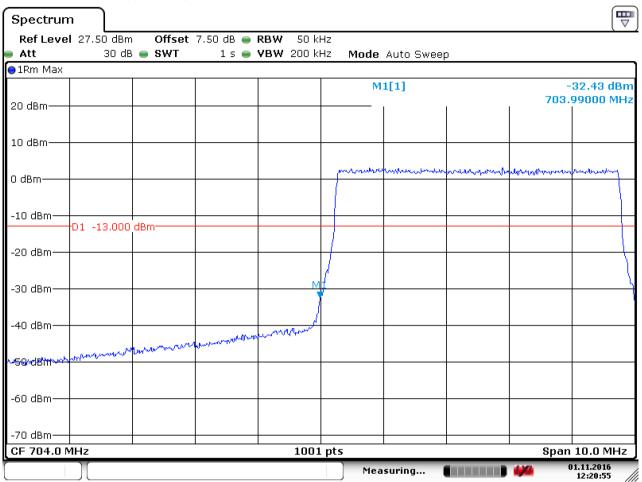
Date: 1.NOV.2016 12:22:24



Report No.: SZEM161000852202

Page: 50 of 87

5.1.1.2.1.2 Test RB=25RB



Date: 1.NOV.2016 12:20:56

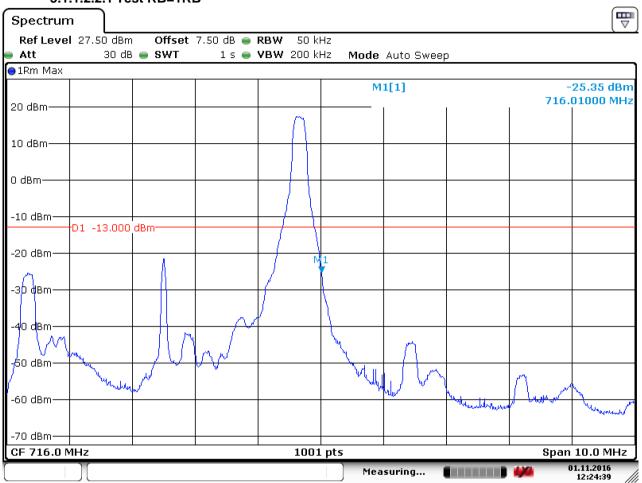


Report No.: SZEM161000852202

Page: 51 of 87

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



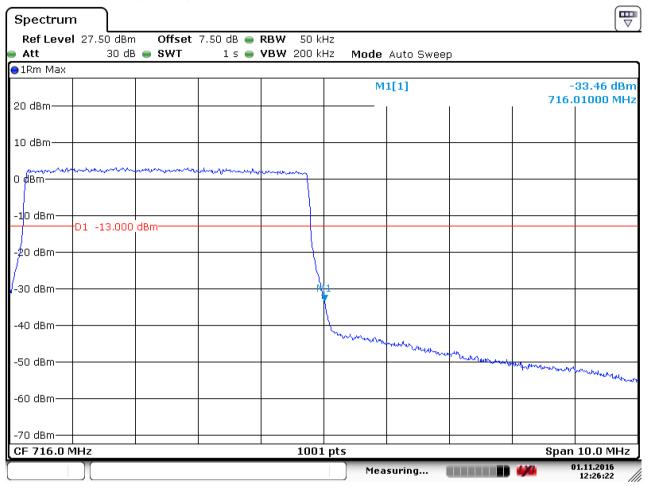
Date: 1.NOV.2016 12:24:40



Report No.: SZEM161000852202

Page: 52 of 87

5.1.1.2.2.2 Test RB=25RB



Date: 1.NOV.2016 12:26:22



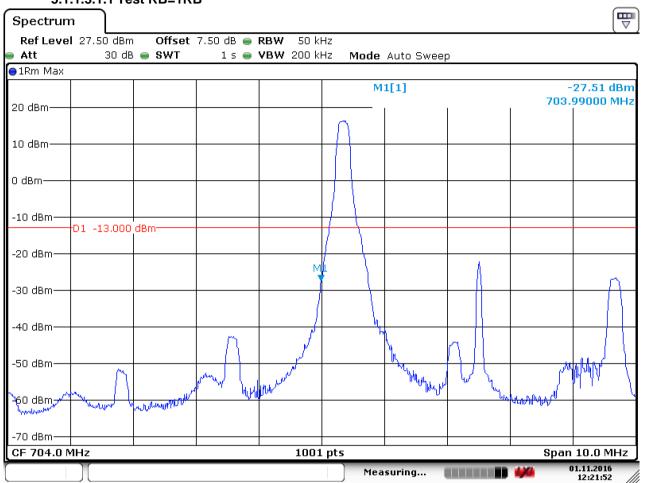
Report No.: SZEM161000852202

Page: 53 of 87

5.1.1.3 Test Mode = LTE/TM3 5MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



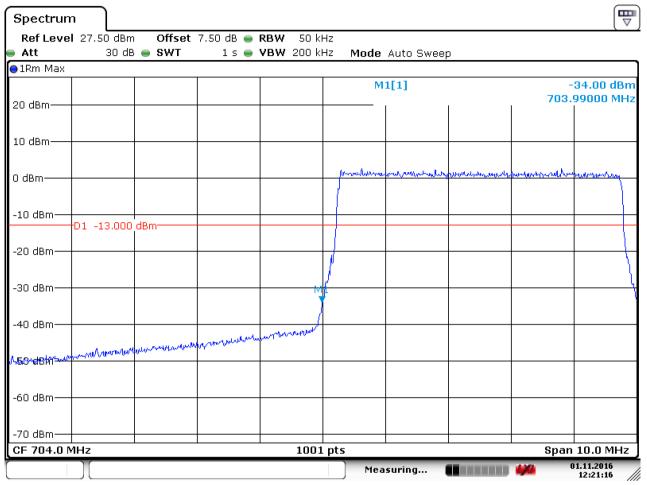
Date: 1.NOV.2016 12:21:52



Report No.: SZEM161000852202

Page: 54 of 87

5.1.1.3.1.2 Test RB=25RB



Date: 1.NOV.2016 12:21:17

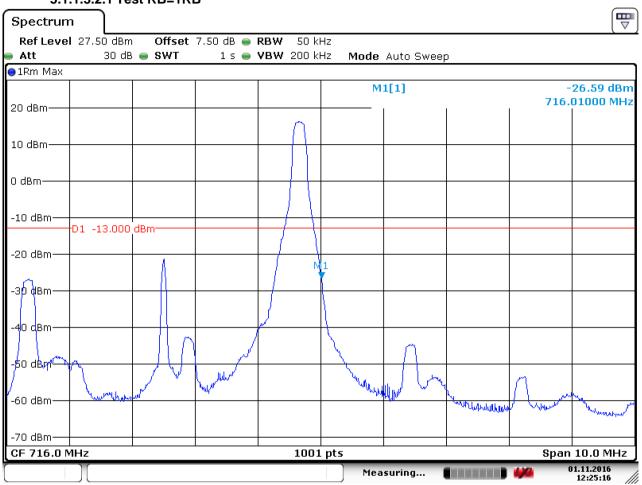


Report No.: SZEM161000852202

Page: 55 of 87

5.1.1.3.2 Test Channel = HCH





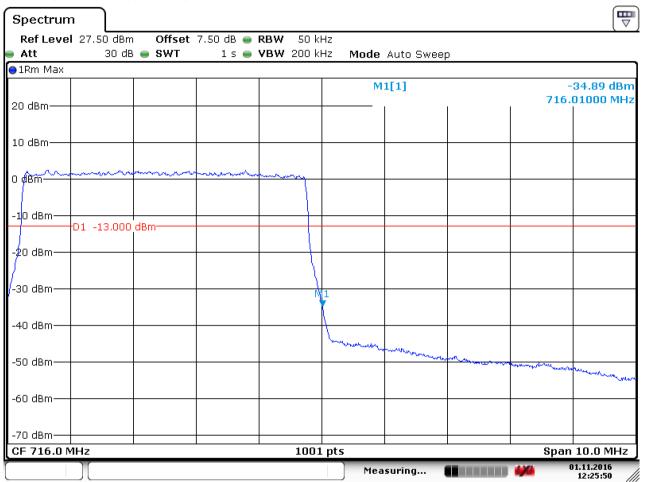
Date: 1.NOV.2016 12:25:16



Report No.: SZEM161000852202

Page: 56 of 87

5.1.1.3.2.2 Test RB=25RB



Date: 1.NOV.2016 12:25:50



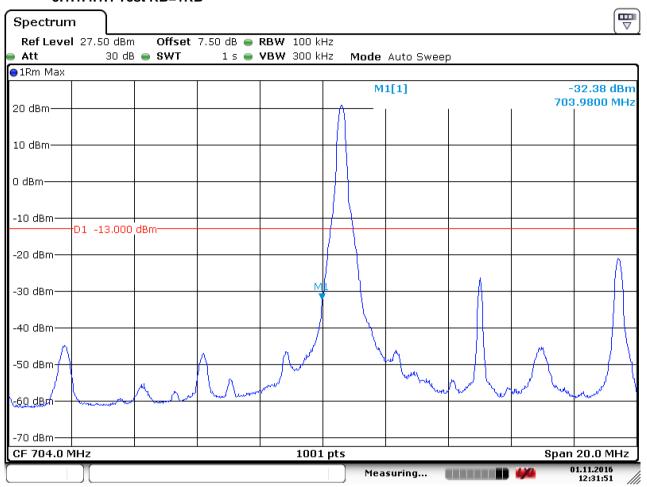
Report No.: SZEM161000852202

Page: 57 of 87

5.1.1.4 Test Mode = LTE/TM1 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



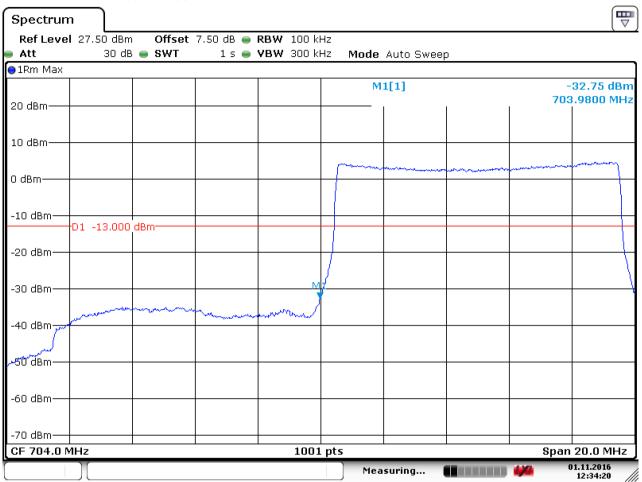
Date: 1.NOV.2016 12:31:52



Report No.: SZEM161000852202

Page: 58 of 87

5.1.1.4.1.2 Test RB=50RB



Date: 1.NOV.2016 12:34:21

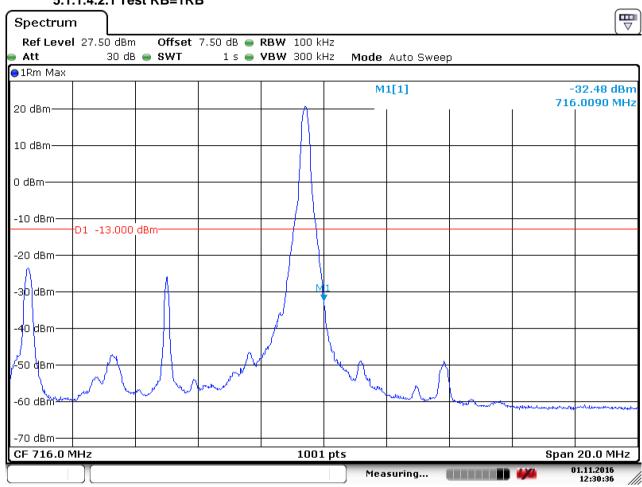


Report No.: SZEM161000852202

Page: 59 of 87

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



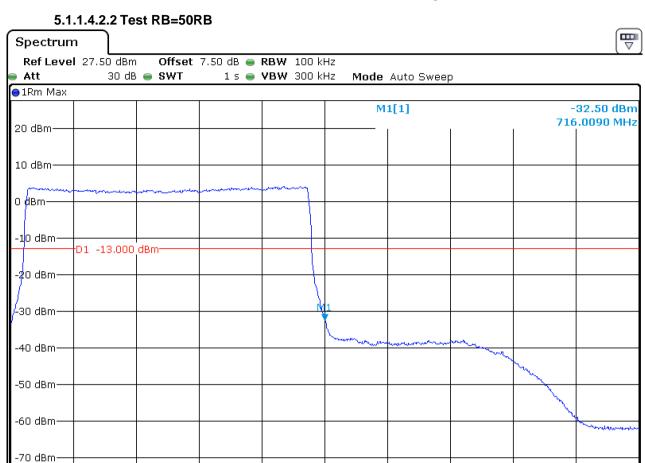
Date: 1.NOV.2016 12:30:37



Report No.: SZEM161000852202

Span 20.0 MHz 01.11.2016

Page: 60 of 87



1001 pts

Measuring...

4/4

Date: 1.NOV.2016 12:28:03

CF 716.0 MHz



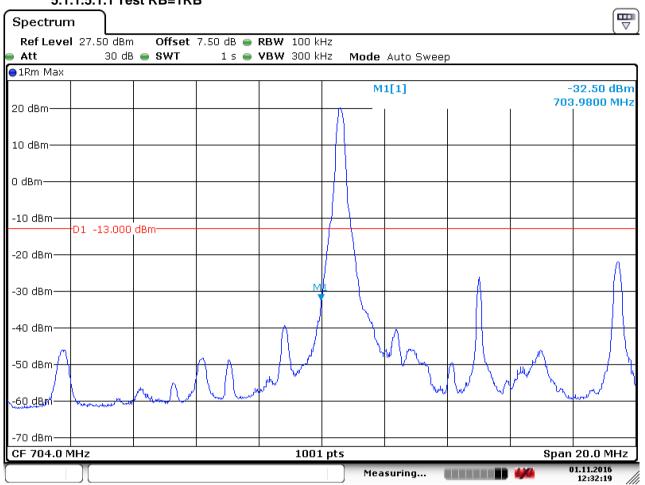
Report No.: SZEM161000852202

Page: 61 of 87

5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



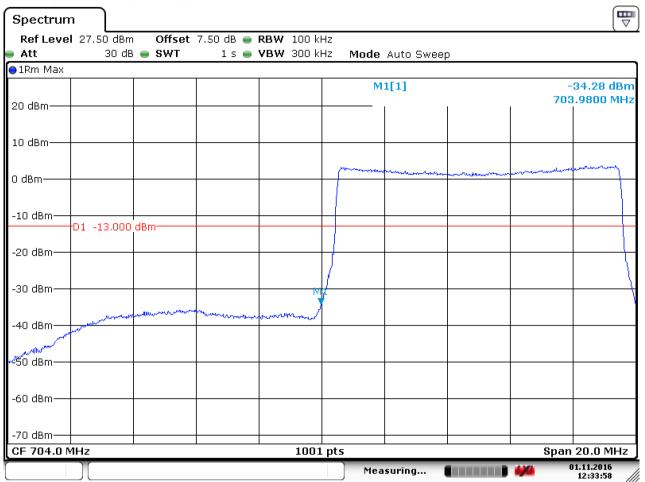
Date: 1.NOV.2016 12:32:19



Report No.: SZEM161000852202

Page: 62 of 87

5.1.1.5.1.2 Test RB=50RB



Date: 1.NOV.2016 12:33:58

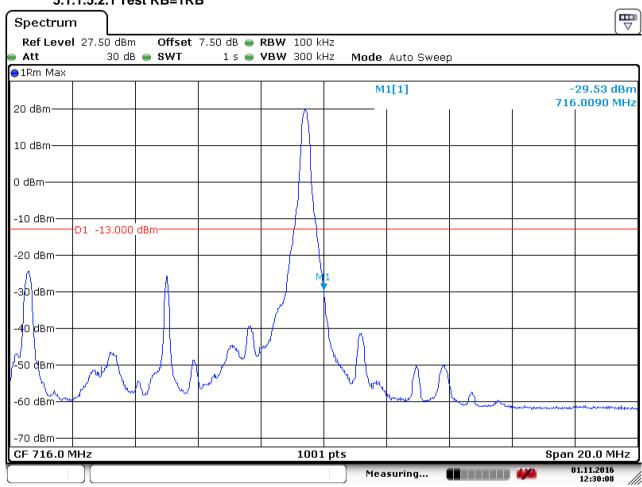


Report No.: SZEM161000852202

Page: 63 of 87

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 1.NOV.2016 12:30:08



Report No.: SZEM161000852202

Page: 64 of 87

5.1.1.5.2.2 Test RB=50RB



Date: 1.NOV.2016 12:28:29



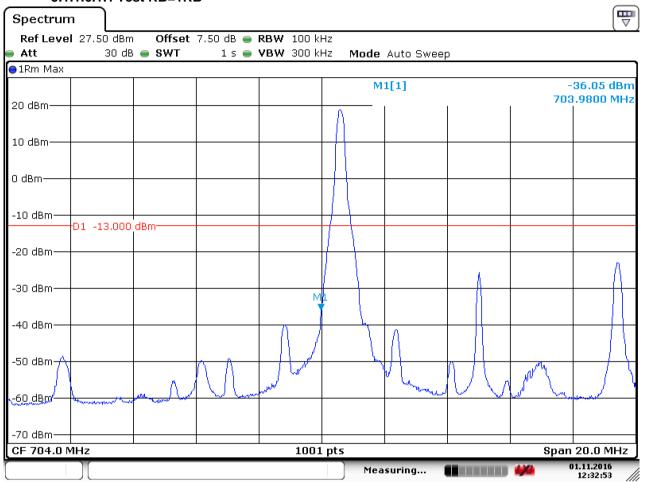
Report No.: SZEM161000852202

Page: 65 of 87

5.1.1.6 Test Mode = LTE/TM3 10MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 1.NOV.2016 12:32:54



Report No.: SZEM161000852202

Page: 66 of 87

5.1.1.6.1.2 Test RB=50RB



Date: 1.NOV.2016 12:33:38

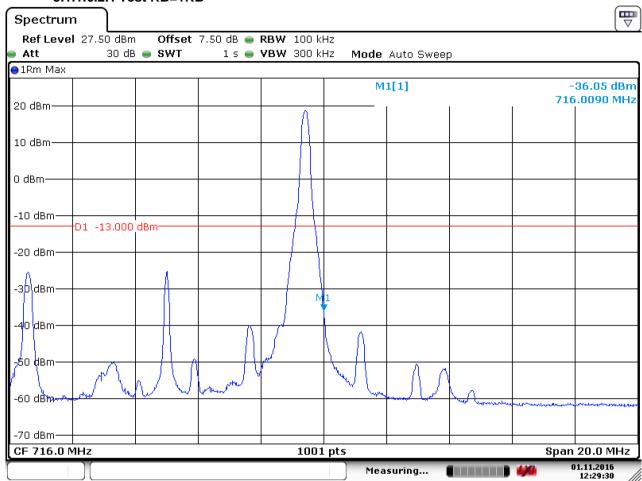


Report No.: SZEM161000852202

Page: 67 of 87

5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



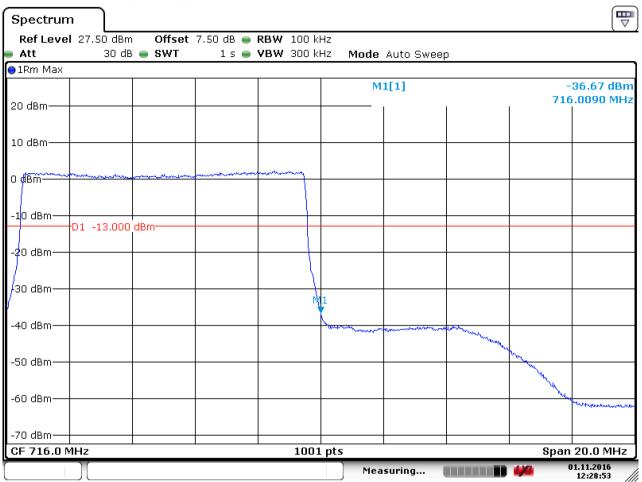
Date: 1.NOV.2016 12:29:31



Report No.: SZEM161000852202

Page: 68 of 87

5.1.1.6.2.2 Test RB=50RB



Date: 1.NOV.2016 12:28:53



Report No.: SZEM161000852202

Page: 69 of 87

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 = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW).

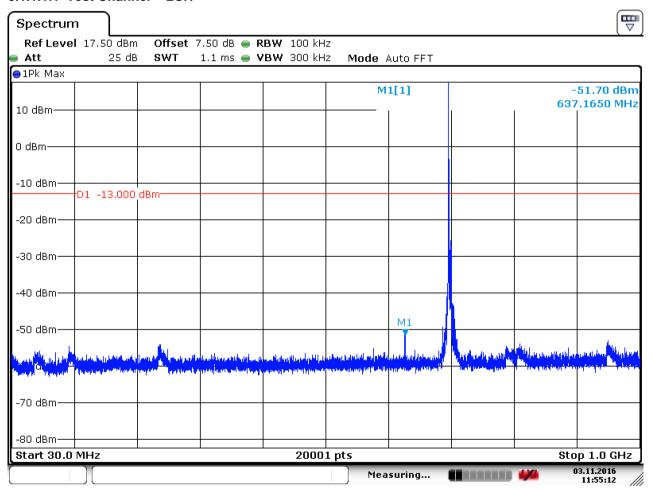
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band17

6.1.1.1 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.1.1 Test Channel = LCH

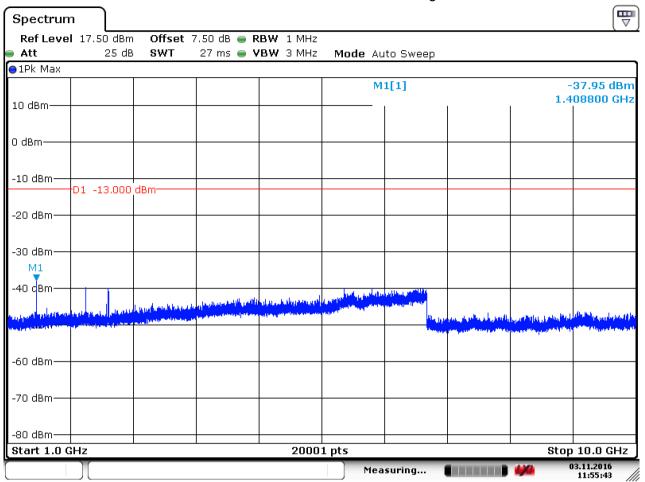


Date: 3.NOV.2016 11:55:13



Report No.: SZEM161000852202

Page: 70 of 87



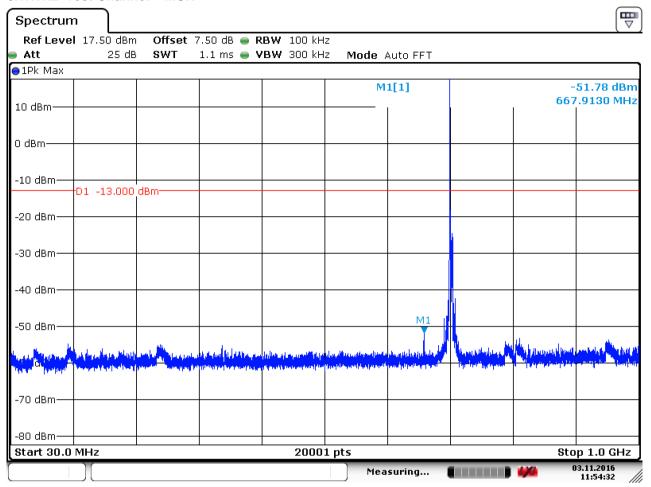
Date: 3.NOV.2016 11:55:44



Report No.: SZEM161000852202

Page: 71 of 87

6.1.1.1.2 Test Channel = MCH

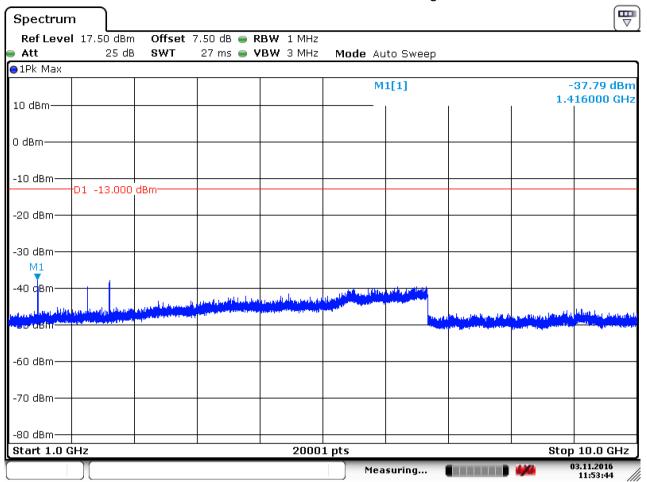


Date: 3.NOV.2016 11:54:32



Report No.: SZEM161000852202

Page: 72 of 87



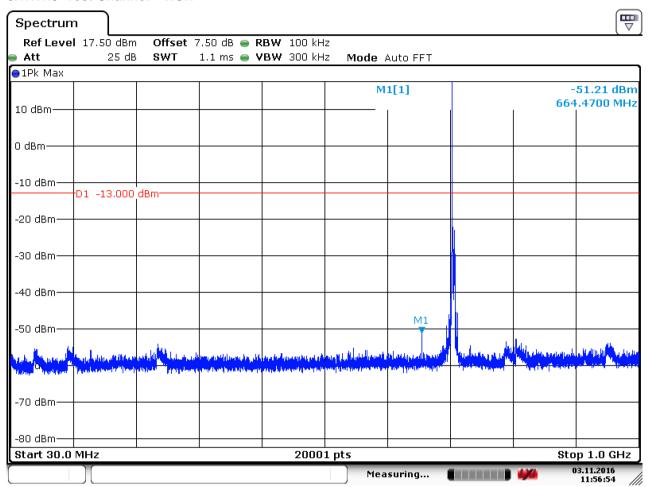
Date: 3.NOV.2016 11:53:44



Report No.: SZEM161000852202

Page: 73 of 87

6.1.1.1.3 Test Channel = HCH

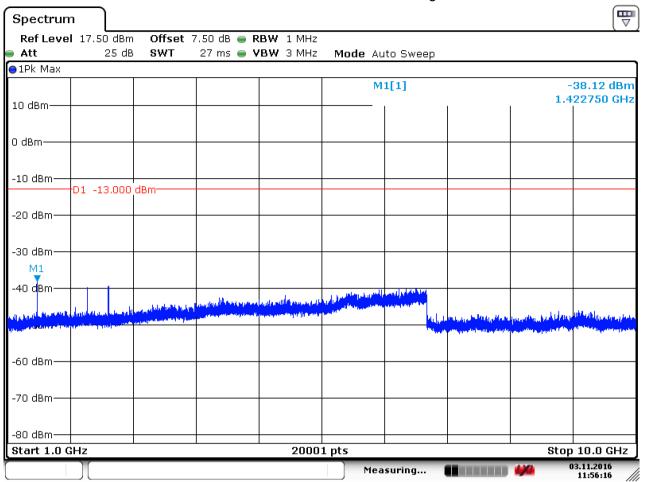


Date: 3.NOV.2016 11:56:54



Report No.: SZEM161000852202

Page: 74 of 87



Date: 3.NOV.2016 11:56:16

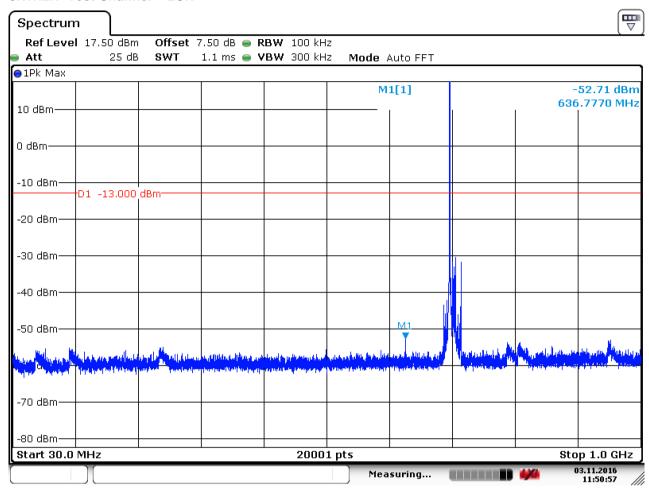


Report No.: SZEM161000852202

Page: 75 of 87

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

6.1.1.2.1 Test Channel = LCH

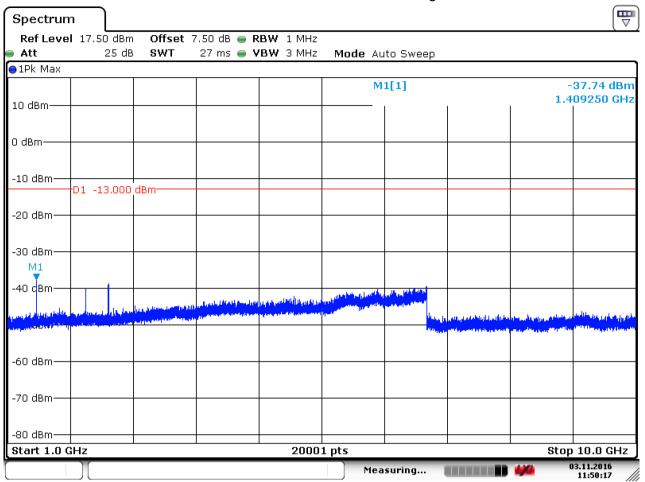


Date: 3.NOV.2016 11:50:57



Report No.: SZEM161000852202

Page: 76 of 87



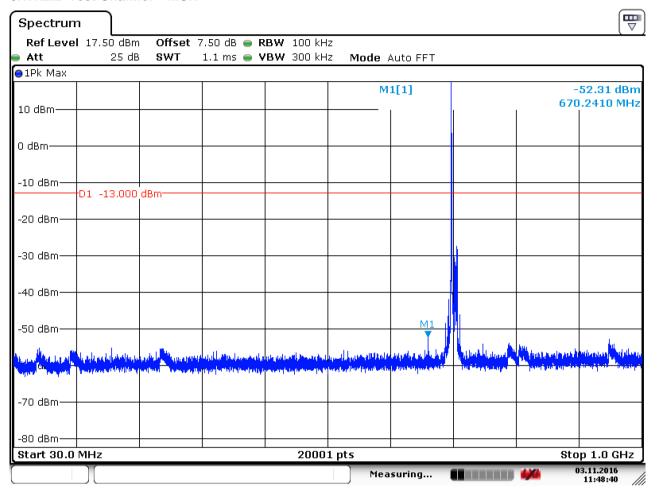
Date: 3.NOV.2016 11:50:17



Report No.: SZEM161000852202

Page: 77 of 87

6.1.1.2.2 Test Channel = MCH

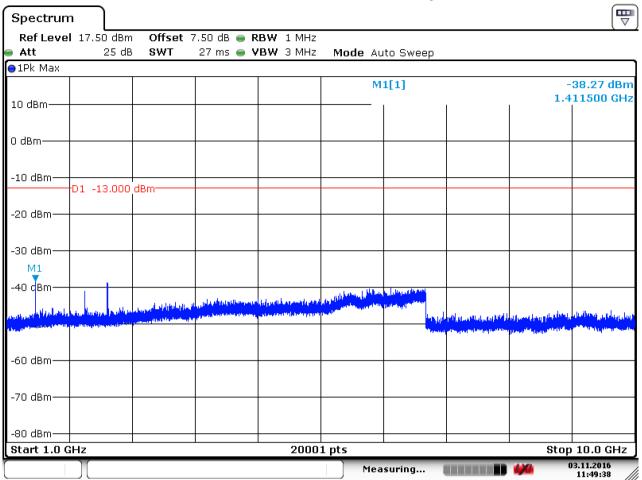


Date: 3.NOV.2016 11:48:40



Report No.: SZEM161000852202

Page: 78 of 87



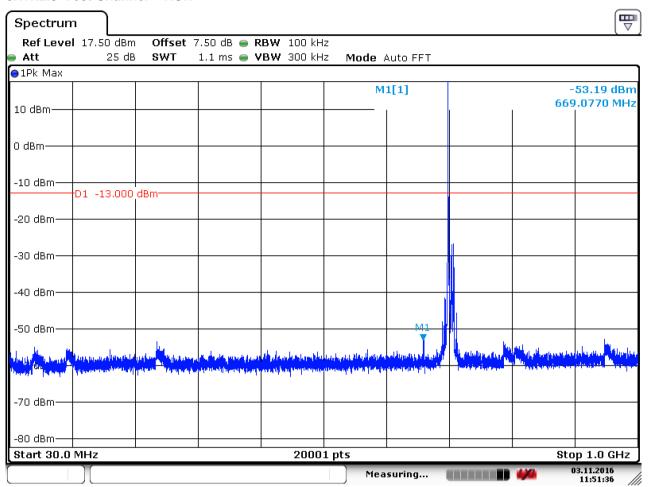
Date: 3.NOV.2016 11:49:38



Report No.: SZEM161000852202

Page: 79 of 87

6.1.1.2.3 Test Channel = HCH

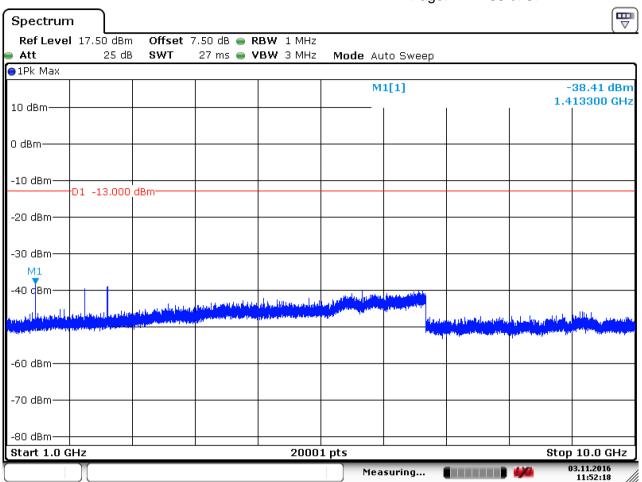


Date: 3.NOV.2016 11:51:37



Report No.: SZEM161000852202

Page: 80 of 87



Date: 3.NOV.2016 11:52:19



Report No.: SZEM161000852202

Page: 81 of 87

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTEband17

7.1.1.1 Test Mode = LTE/TM1 RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.500	-90.14	-13.00	-77.14	Vertical
150.000	-89.54	-13.00	-76.54	Vertical
235.000	-88.52	-13.00	-75.52	Vertical
352.500	-78.36	-13.00	-65.36	Vertical
430.000	-84.34	-13.00	-71.34	Vertical
521.500	-66.73	-13.00	-53.73	Vertical
1320.000	-50.49	-13.00	-37.49	Vertical
1738.000	-47.15	-13.00	-34.15	Vertical
3877.500	-51.39	-13.00	-38.39	Vertical
4956.000	-64.55	-13.00	-51.55	Vertical
7827.500	-63.62	-13.00	-50.62	Vertical
10517.000	-63.02	-13.00	-50.02	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-91.40	-13.00	-78.40	Horizontal
149.500	-88.46	-13.00	-75.46	Horizontal
235.000	-84.21	-13.00	-71.21	Horizontal
352.500	-82.94	-13.00	-69.94	Horizontal
469.000	-74.63	-13.00	-61.63	Horizontal
622.00	-78.40	-13.00	-65.40	Horizontal
1650.000	-64.18	-13.00	-51.18	Horizontal
2154.000	-36.70	-13.00	-23.70	Horizontal
3847.500	-51.45	-13.00	-38.45	Horizontal
5437.500	-50.31	-13.00	-37.31	Horizontal
7862.000	-64.11	-13.00	-51.11	Horizontal
10627.00	-63.08	-13.00	-50.08	Horizontal



Report No.: SZEM161000852202

Page: 82 of 87

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-91.60	-13.00	-78.60	Vertical
190.500	-93.74	-13.00	-80.74	Vertical
286.000	-88.16	-13.00	-75.16	Vertical
371.000	-86.33	-13.00	-73.33	Vertical
457.000	-82.87	-13.00	-69.87	Vertical
613.500	-79.69	-13.00	-66.69	Vertical
1672.500	-64.57	-13.00	-51.57	Vertical
2013.000	-44.62	-13.00	-31.62	Vertical
3292.500	-52.46	-13.00	-39.46	Vertical
4560.000	-51.13	-13.00	-38.13	Vertical
7819.000	-64.43	-13.00	-51.43	Vertical
10500.000	-63.92	-13.00	-50.92	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-91.70	-13.00	-78.70	Horizontal
149.500	-90.25	-13.00	-77.25	Horizontal
293.500	-87.75	-13.00	-74.75	Horizontal
401.000	-87.35	-13.00	-74.35	Horizontal
471.000	-81.46	-13.00	-68.46	Horizontal
741.500	-61.64	-13.00	-48.64	Horizontal
1100.000	-49.85	-13.00	-36.85	Horizontal
1987.500	-61.70	-13.00	-48.70	Horizontal
4307.500	-66.73	-13.00	-53.73	Horizontal
7962.500	-47.62	-13.00	-34.62	Horizontal
8694.000	-64.52	-13.00	-51.52	Horizontal
11889.000	-63.62	-13.00	-50.62	Horizontal



Report No.: SZEM161000852202

Page: 83 of 87

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.000	-89.20	-13.00	-76.20	Vertical
171.500	-92.57	-13.00	-79.57	Vertical
258.500	-89.71	-13.00	-76.71	Vertical
380.500	-86.67	-13.00	-73.67	Vertical
479.500	-82.67	-13.00	-69.67	Vertical
626.000	-79.23	-13.00	-66.23	Vertical
1055.000	-51.37	-13.00	-38.37	Vertical
1551.000	-49.55	-13.00	-36.55	Vertical
2712.000	-40.56	-13.00	-27.56	Vertical
5031.500	-65.81	-13.00	-52.81	Vertical
7265.000	-65.22	-13.00	-52.22	Vertical
10497.000	-64.02	-13.00	-51.02	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-92.15	-13.00	-79.15	Horizontal
146.500	-88.26	-13.00	-75.26	Horizontal
226.500	-90.14	-13.00	-77.14	Horizontal
346.000	-87.88	-13.00	-74.88	Horizontal
479.000	-81.76	-13.00	-68.76	Horizontal
612.000	-78.73	-13.00	-65.73	Horizontal
1540.000	-49.21	-13.00	-36.21	Horizontal
3292.500	-52.66	-13.00	-39.66	Horizontal
3706.500	-64.68	-13.00	-51.68	Horizontal
5047.000	-50.27	-13.00	-37.27	Horizontal
7798.000	-64.24	-13.00	-51.24	Horizontal
10070.000	-64.40	-13.00	-51.40	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.



Report No.: SZEM161000852202

Page: 84 of 87

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	0.38	0.00034	PASS		
		LCH	TN	VN	-0.15	-0.00022	PASS		
				VH	1.02	0.00002	PASS		
	LTE/TM1			VL	0.84	0.00100	PASS		
	10MHz	MCH	TN	VN	1.75	0.00090	PASS		
	TOWN 12			VH	-4.35	-0.00161	PASS		
				VL	1.74	0.00206	PASS		
		HCH	TN	VN	-2.64	-0.00312	PASS		
				VH	2.84	0.00335	PASS		
		LCH		VL	-2.15	-0.00241	PASS		
			TN	VN	-7.28	-0.00425	PASS		
				VH	-3.01	-0.00176	PASS		
	LTE /TM2		TN	VL	-1.44	-0.00302	PASS		
LTE band17	10MHz	MCH		VN	-3.18	-0.00184	PASS		
	TOWNIZ			VH	-7.23	-0.00460	PASS		
			TN	VL	0.24	0.00031	PASS		
		HCH		VN	-7.73	-0.00441	PASS		
				VH	-6.28	-0.00375	PASS		
				VL	-2.18	-0.00388	PASS		
		LCH	TN	VN	-1.10	-0.00221	PASS		
				VH	-5.80	-0.00421	PASS		
	LTE /TM3			VL	-2.43	-0.00342	PASS		
	10MHz	MCH	TN	VN	-1.33	-0.00499	PASS		
	I UIVII IZ			VH	-5.68	-0.00302	PASS		
				VL	-6.12	-0.00295	PASS		
		HCH	TN	VN	-3.32	-0.00541	PASS		
						VH	2.19	-0.00115	PASS



Report No.: SZEM161000852202

Page: 85 of 87

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	-7.05	-0.00994	PASS
				-20	-1.01	-0.00142	PASS
				-10	-1.69	-0.00238	PASS
				0	-3.23	-0.00456	PASS
		LCH	VN	10	1.22	0.00172	PASS
				20	2.48	0.00350	PASS
				30	0.51	0.00072	PASS
				40	0.34	0.00048	PASS
				50	6.10	0.00860	PASS
				-30	-0.21	-0.00030	PASS
		MCH	VN	-20	2.95	0.00415	PASS
				-10	-0.75	-0.00106	PASS
	L TE /TN 44			0	-2.03	-0.00286	PASS
LTE band17	LTE/TM1 10MHz			10	0.39	0.00055	PASS
band17	TOMHZ			20	-1.15	-0.00162	PASS
				30	2.93	0.00413	PASS
				40	-4.67	-0.00658	PASS
				50	-7.37	-0.01038	PASS
				-30	0.33	0.00046	PASS
				-20	4.16	0.00585	PASS
				-10	-0.67	-0.00094	PASS
				0	-1.23	-0.00173	PASS
		HCH	VN	10	-0.86	-0.00121	PASS
				20	-1.12	-0.00158	PASS
				30	-1.31	-0.00184	PASS
				40	-4.21	-0.00592	PASS
				50	-6.17	-0.00868	PASS



Report No.: SZEM161000852202

Page: 86 of 87

	Test Test From From From From From From From From						
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-10.11	-0.01426	PASS
				-20	-8.87	-0.01251	PASS
				-10	-6.09	-0.00859	PASS
				0	-2.25	-0.00317	PASS
		LCH	VN	10	1.62	0.00228	PASS
				20	-5.01	-0.00707	PASS
				30	-4.86	-0.00685	PASS
				40	-5.37	-0.00757	PASS
				50	1.34	0.00189	PASS
				-30	-5.81	-0.00818	PASS
		E/TM2 0MHz MCH	VN	-20	-7.35	-0.01035	PASS
				-10	-1.13	-0.00159	PASS
	LTE/TMO			0	-0.63	-0.00089	PASS
LTE band17				10	-2.33	-0.00328	PASS
band 17	IUMHZ			20	-7.68	-0.01082	PASS
				30	2.44	0.00344	PASS
				40	-8.84	-0.01245	PASS
				50	-11.95	-0.01683	PASS
				-30	-7.62	-0.01072	PASS
				-20	-5.18	-0.00729	PASS
				-10	-6.69	-0.00941	PASS
				0	-3.26	-0.00459	PASS
		HCH	VN	10	1.07	0.00150	PASS
				20	2.60	0.00366	PASS
				30	-6.21	-0.00873	PASS
				40	-4.56	-0.00641	PASS
				50	-5.21	-0.00733	PASS



Report No.: SZEM161000852202

Page: 87 of 87

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	2.73	0.00385	PASS
				-20	1.50	0.00212	PASS
				-10	0.67	0.00094	PASS
				0	-2.68	-0.00378	PASS
		LCH	VN	10	0.56	0.00079	PASS
				20	-1.80	-0.00254	PASS
				30	1.60	0.00226	PASS
				40	-0.04	-0.00006	PASS
				50	-1.01	-0.00142	PASS
				-30	-1.80	-0.00254	PASS
		мсн	VN	-20	-1.08	-0.00152	PASS
				-10	-0.39	-0.00055	PASS
T TOP	LTE/TM3			0	-1.38	-0.00194	PASS
LTE band17	10MHz			10	2.31	0.00325	PASS
ound 17	TOMITZ			20	1.72	0.00242	PASS
				30	1.61	0.00227	PASS
				40	0.13	0.00018	PASS
				50	-0.35	-0.00049	PASS
				-30	-0.17	-0.00024	PASS
				-20	0.68	0.00096	PASS
				-10	0.55	0.00077	PASS
				0	-1.52	-0.00214	PASS
		HCH	VN	10	1.57	0.00221	PASS
				20	-2.78	-0.00391	PASS
				30	2.64	0.00371	PASS
				40	-0.63	-0.00089	PASS
				50	-2.60	-0.00366	PASS

The End