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Appendix B

E-UTRA Band 41



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 41

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.28	22.51	33.00	PASS
				RB1#13	21.74	21.97	33.00	PASS
				RB1#24	21.76	21.99	33.00	PASS
			LCH	RB12#0	21.04	21.27	33.00	PASS
				RB12#6	20.88	21.11	33.00	PASS
		5M		RB12#13	20.90	21.13	33.00	PASS
			-	RB25#0	21.22	21.45	33.00	PASS
			мсн	RB1#0	21.99	22.22	33.00	PASS
				RB1#13	21.73	21.96	33.00	PASS
	LTE/TM1			RB1#24	21.97	22.20	33.00	PASS
BAND41				RB12#0	21.04	21.27	33.00	PASS
				RB12#6	20.85	21.08	33.00	PASS
				RB12#13	20.96	21.19	33.00	PASS
				RB25#0	20.99	21.22	33.00	PASS
				RB1#0	21.91	22.14	33.00	PASS
				RB1#13	21.87	22.10	33.00	PASS
				RB1#24	21.91	22.14	33.00	PASS
			нсн	RB12#0	21.04	21.27	33.00	PASS
				RB12#6	20.95	21.18	33.00	PASS
				RB12#13	21.03	21.26	33.00	PASS
				RB25#0	21.05	21.28	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
				RB1#0	20.97	21.20	33.00	PASS
				RB1#13	20.66	20.89	33.00	PASS
				RB1#24	20.97	21.20	33.00	PASS
			LCH	RB12#0	19.86	20.09	33.00	PASS
				RB12#6	19.73	19.96	33.00	PASS
		5M		RB12#13	19.78	20.01	33.00	PASS
				RB25#0	19.94	20.17	33.00	PASS
			мсн	RB1#0	21.14	21.37	33.00	PASS
				RB1#13	20.82	21.05	33.00	PASS
				RB1#24	21.13	21.36	33.00	PASS
BAND41	LTE/TM2			RB12#0	20.03	20.26	33.00	PASS
				RB12#6	19.85	20.08	33.00	PASS
				RB12#13	19.96	20.19	33.00	PASS
				RB25#0	20.04	20.27	33.00	PASS
				RB1#0	21.06	21.29	33.00	PASS
				RB1#13	21.05	21.28	33.00	PASS
				RB1#24	21.10	21.33	33.00	PASS
			нсн	RB12#0	20.13	20.36	33.00	PASS
			_	RB12#6	19.94	20.17	33.00	PASS
				RB12#13	19.94	20.17	33.00	PASS
				RB25#0	20.12	20.35	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
				RB1#0	22.02	22.25	33.00	PASS
				RB1#25	21.89	22.12	33.00	PASS
				RB1#49	22.00	22.23	33.00	PASS
			LCH	RB25#0	20.88	21.11	33.00	PASS
				RB25#13	20.77	21.00	33.00	PASS
		10M		RB25#25	20.94	21.17	33.00	PASS
				RB50#0	20.87	21.10	33.00	PASS
			мсн	RB1#0	22.07	22.30	33.00	PASS
				RB1#25	21.81	22.04	33.00	PASS
	LTE/TM1			RB1#49	22.01	22.24	33.00	PASS
BAND41				RB25#0	20.99	21.22	33.00	PASS
				RB25#13	20.85	21.08	33.00	PASS
				RB25#25	20.86	21.09	33.00	PASS
				RB50#0	20.94	21.17	33.00	PASS
				RB1#0	22.10	22.33	33.00	PASS
				RB1#25	22.04	22.27	33.00	PASS
				RB1#49	22.03	22.26	33.00	PASS
			НСН	RB25#0	20.99	21.22	33.00	PASS
				RB25#13	20.94	21.17	33.00	PASS
				RB25#25	20.93	21.16	33.00	PASS
				RB50#0	21.02	21.25	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
				RB1#0	21.09	21.32	33.00	PASS
				RB1#25	21.12	21.35	33.00	PASS
				RB1#49	21.20	21.43	33.00	PASS
			LCH	RB25#0	19.94	20.17	33.00	PASS
				RB25#13	19.83	20.06	33.00	PASS
		10M		RB25#25	20.01	20.24	33.00	PASS
				RB50#0	19.93	20.16	33.00	PASS
			МСН	RB1#0	21.19	21.42	33.00	PASS
				RB1#25	21.21	21.44	33.00	PASS
				RB1#49	21.09	21.32	33.00	PASS
BAND41	LTE/TM2			RB25#0	20.04	20.27	33.00	PASS
				RB25#13	19.91	20.14	33.00	PASS
				RB25#25	19.91	20.14	33.00	PASS
				RB50#0	19.99	20.22	33.00	PASS
				RB1#0	21.21	21.44	33.00	PASS
				RB1#25	20.97	21.20	33.00	PASS
				RB1#49	21.09	21.32	33.00	PASS
			НСН	RB25#0	20.30	20.53	33.00	PASS
				RB25#13	20.24	20.47	33.00	PASS
			,	RB25#25	20.07	20.30	33.00	PASS
				RB50#0	20.07	20.30	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
				RB1#0	21.87	22.10	33.00	PASS
				RB1#38	21.67	21.90	33.00	PASS
				RB1#74	21.91	22.14	33.00	PASS
			LCH	RB36#0	20.76	20.99	33.00	PASS
				RB36#18	20.72	20.95	33.00	PASS
		15M		RB36#39	20.74	20.97	33.00	PASS
				RB75#0	20.81	21.04	33.00	PASS
			MCH	RB1#0	22.13	22.36	33.00	PASS
				RB1#38	21.90	22.13	33.00	PASS
				RB1#74	22.43	22.66	33.00	PASS
BAND41	LTE/TM1			RB36#0	21.45	21.68	33.00	PASS
				RB36#18	21.35	21.58	33.00	PASS
				RB36#39	21.34	21.57	33.00	PASS
				RB75#0	21.43	21.66	33.00	PASS
				RB1#0	22.69	22.92	33.00	PASS
				RB1#38	22.03	22.26	33.00	PASS
				RB1#74	22.04	22.27	33.00	PASS
			HCH	RB36#0	21.09	21.32	33.00	PASS
				RB36#18	20.88	21.11	33.00	PASS
				RB36#39	21.00	21.23	33.00	PASS
				RB75#0	21.17	21.40	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
				RB1#0	21.13	21.36	33.00	PASS
				RB1#38	20.91	21.14	33.00	PASS
				RB1#74	20.98	21.21	33.00	PASS
			LCH	RB36#0	19.84	20.07	33.00	PASS
				RB36#18	19.73	19.96	33.00	PASS
		15M		RB36#39	19.72	19.95	33.00	PASS
				RB75#0	19.94	20.17	33.00	PASS
			МСН	RB1#0	21.31	21.54	33.00	PASS
				RB1#38	20.89	21.12	33.00	PASS
	LTE/TM2			RB1#74	21.15	21.38	33.00	PASS
BAND41				RB36#0	19.95	20.18	33.00	PASS
				RB36#18	19.77	20.00	33.00	PASS
				RB36#39	19.85	20.08	33.00	PASS
				RB75#0	20.01	20.24	33.00	PASS
				RB1#0	21.44	21.67	33.00	PASS
				RB1#38	21.03	21.26	33.00	PASS
				RB1#74	20.87	21.10	33.00	PASS
			HCH	RB36#0	20.27	20.50	33.00	PASS
				RB36#18	20.04	20.27	33.00	PASS
				RB36#39	20.15	20.38	33.00	PASS
				RB75#0	20.18	20.41	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
				RB1#0	21.99	22.22	33.00	PASS
				RB1#50	21.77	22.00	33.00	PASS
			LCH	RB1#99	21.89	22.12	33.00	PASS
				RB50#0	20.76	20.99	33.00	PASS
				RB50#25	20.77	21.00	33.00	PASS
		20M		RB50#50	20.83	21.06	33.00	PASS
				RB100#0	20.86	21.09	33.00	PASS
			MCH	RB1#0	22.21	22.44	33.00	PASS
				RB1#50	22.13	22.36	33.00	PASS
				RB1#99	21.97	22.20	33.00	PASS
BAND41	LTE/TM1			RB50#0	21.10	21.33	33.00	PASS
				RB50#25	20.9	21.13	33.00	PASS
				RB50#50	21.00	21.23	33.00	PASS
				RB100#0	20.97	21.20	33.00	PASS
				RB1#0	22.55	22.78	33.00	PASS
				RB1#50	22.31	22.54	33.00	PASS
				RB1#99	22.28	22.51	33.00	PASS
			НСН	RB50#0	21.69	21.92	33.00	PASS
				RB50#25	21.63	21.86	33.00	PASS
				RB50#50	21.57	21.80	33.00	PASS
				RB100#0	21.67	21.90	33.00	PASS



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Test	Test	Test	Test	Test RB	Measured	EIRP	limit	Verdict
Band(LTE)	Mode	Bandwidth	channel	1631170	(dBm)	(dBm)	(dBm)	Verdict
				RB1#0	21.09	21.32	33.00	PASS
				RB1#50	21.11	21.34	33.00	PASS
		20M	LCH	RB1#99	20.96	21.19	33.00	PASS
				RB50#0	19.82	20.05	33.00	PASS
				RB50#25	19.81	20.04	33.00	PASS
				RB50#50	19.73	19.96	33.00	PASS
				RB100#0	19.90	20.13	33.00	PASS
			мсн	RB1#0	21.40	21.63	33.00	PASS
				RB1#50	21.23	21.46	33.00	PASS
				RB1#99	21.16	21.39	33.00	PASS
BAND41	LTE/TM2			RB50#0	20.14	20.37	33.00	PASS
				RB50#25	20.04	20.27	33.00	PASS
				RB50#50	20.08	20.31	33.00	PASS
				RB100#0	20.12	20.35	33.00	PASS
				RB1#0	21.54	21.77	33.00	PASS
				RB1#50	21.44	21.67	33.00	PASS
				RB1#99	21.32	21.55	33.00	PASS
			НСН	RB50#0	20.64	20.87	33.00	PASS
				RB50#25	20.18	20.41	33.00	PASS
				RB50#50	20.20	20.43	33.00	PASS
				RB100#0	20.27	20.50	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
- c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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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	5.07	13	PASS
	TM1/20M	MCH	5.22	13	PASS
Dand 44		HCH	5.39	13	PASS
Band 41	TM2/20M	LCH	6.12	13	PASS
		MCH	6.81	13	PASS
		HCH	6.41	13	PASS



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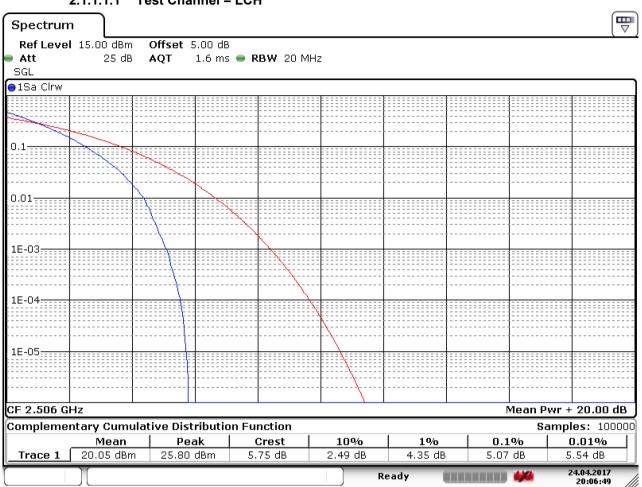
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band41

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

2.1.1.1.1 Test Channel = LCH



Date: 24.APR.2017 20:06:50



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2.1.1.1.2 Test Channel = MCH



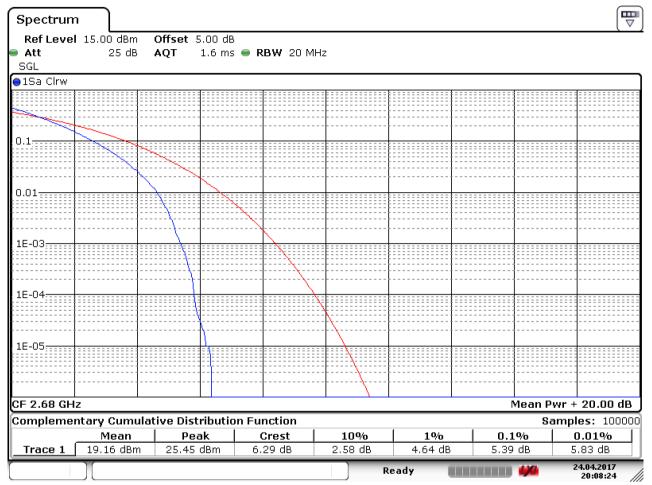
Date: 24.APR.2017 20:08:05



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2.1.1.1.3 Test Channel = HCH



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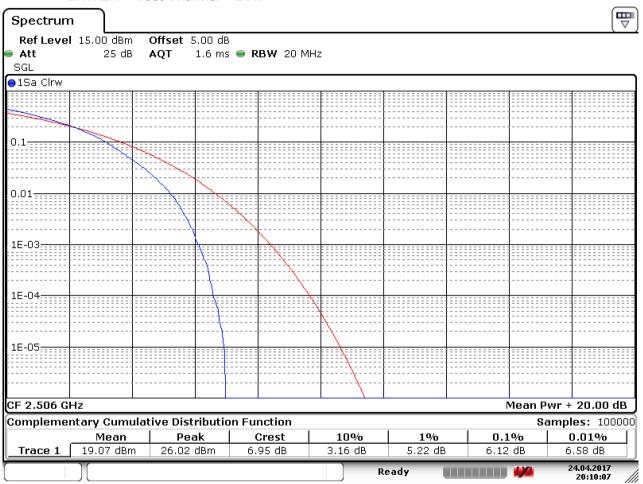


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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH



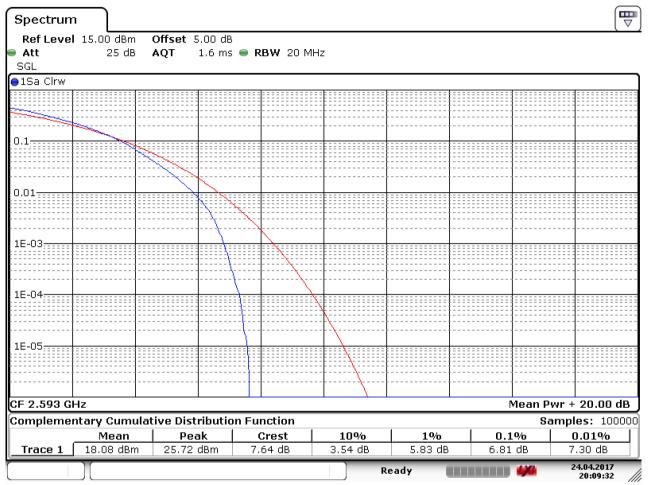
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2.1.1.2.2 Test Channel = MCH



Date: 24.APR.2017 20:09:32



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2.1.1.2.3 Test Channel = HCH



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3 Modulation Characteristics

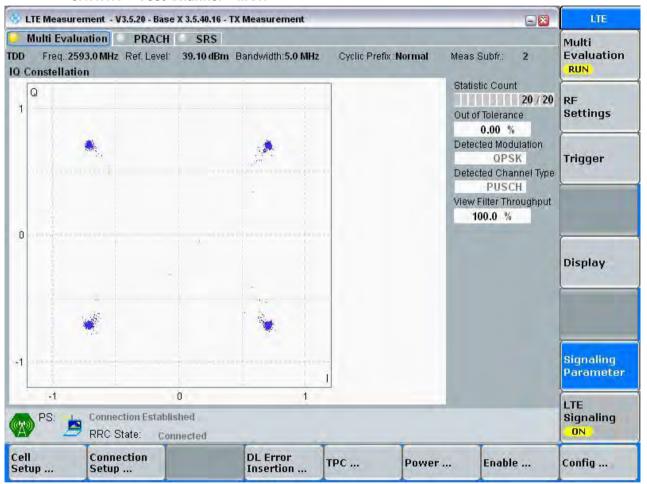
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band41

3.1.1.1 Test Mode = LTE /TM1 5MHz

3.1.1.1.1 Test Channel = MCH



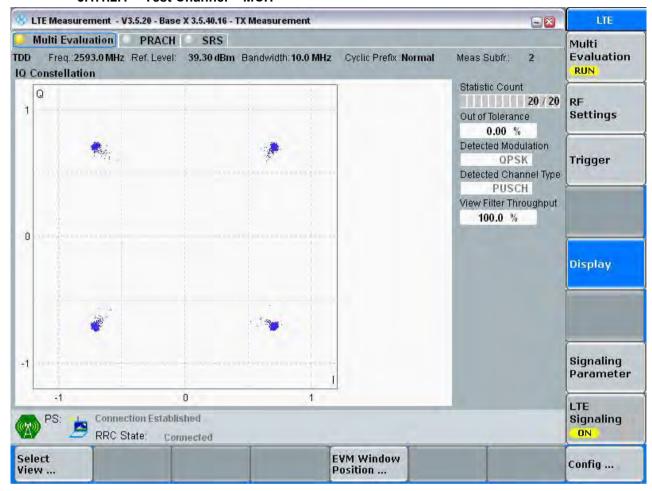


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3.1.1.2 Test Mode = LTE /TM1 10MHz

3.1.1.2.1 Test Channel = MCH



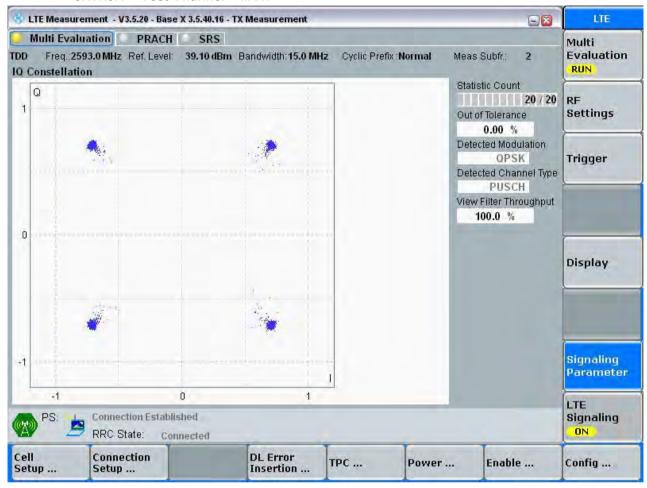


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3.1.1.3 Test Mode = LTE /TM1 15MHz

3.1.1.3.1 Test Channel = MCH



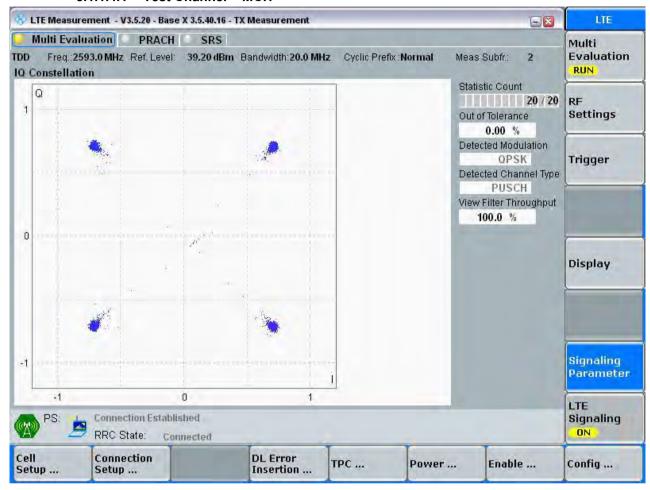


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3.1.1.4 Test Mode = LTE /TM1 20MHz

3.1.1.4.1 Test Channel = MCH



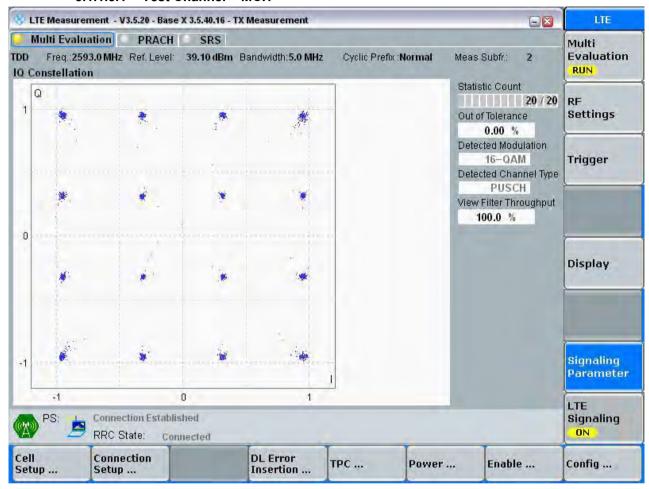


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3.1.1.5 Test Mode = LTE /TM2 5MHz

3.1.1.5.1 Test Channel = MCH



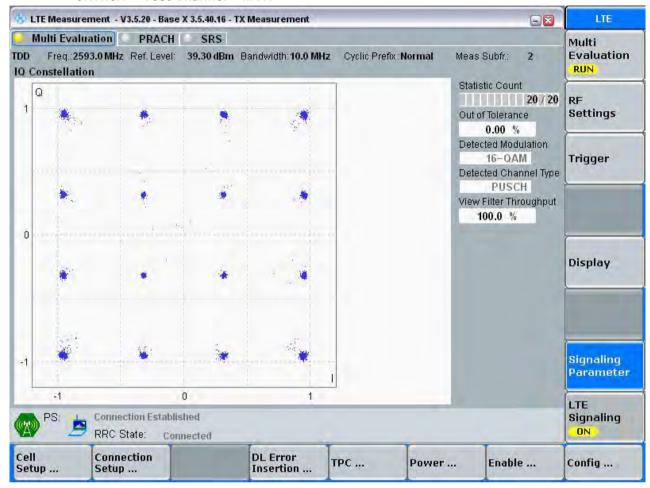


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3.1.1.6 Test Mode = LTE /TM2 10MHz

3.1.1.6.1 Test Channel = MCH



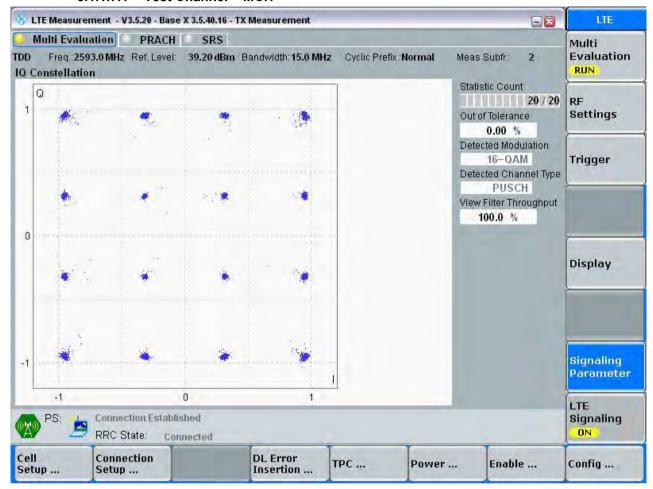


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3.1.1.7 Test Mode = LTE /TM2 15MHz

3.1.1.7.1 Test Channel = MCH



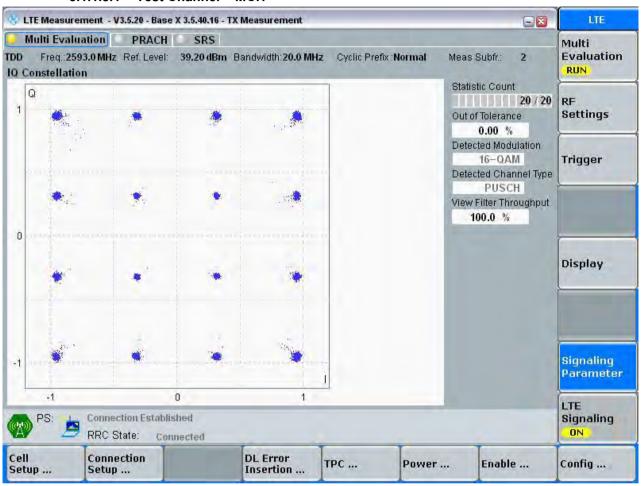


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3.1.1.8 Test Mode = LTE /TM2 20MHz

3.1.1.8.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	4.50	4.85	PASS
	TM1/5MHz	MCH	4.48	4.95	PASS
		HCH	4.48	5.02	PASS
		LCH	4.48	4.92	PASS
	TM2/ 5MHz	MCH	4.47	4.91	PASS
		HCH	4.50	4.94	PASS
		LCH	8.93	9.81	PASS
	TM1/10MHz	MCH	8.95	9.83	PASS
		HCH	8.93	9.73	PASS
		LCH	8.91	9.61	PASS
	TM2/ 10MHz	MCH	8.95	9.65	PASS
Band 41		HCH	8.93	9.79	PASS
Band 41	TM1/ 15MHz	LCH	13.46	14.87	PASS
		MCH	13.55	15.88	PASS
		HCH	13.52	16.09	PASS
		LCH	13.55	15.35	PASS
	TM2/ 15MHz	MCH	13.52	15.67	PASS
		HCH	13.55	15.44	PASS
		LCH	17.90	19.94	PASS
	TM1/ 20MHz	MCH	17.94	19.58	PASS
		HCH	17.90	19.98	19.62
		LCH	17.94	20.78	PASS
	TM2/ 20MHz	MCH	17.90	19.86	PASS
		HCH	17.90	19.62	PASS



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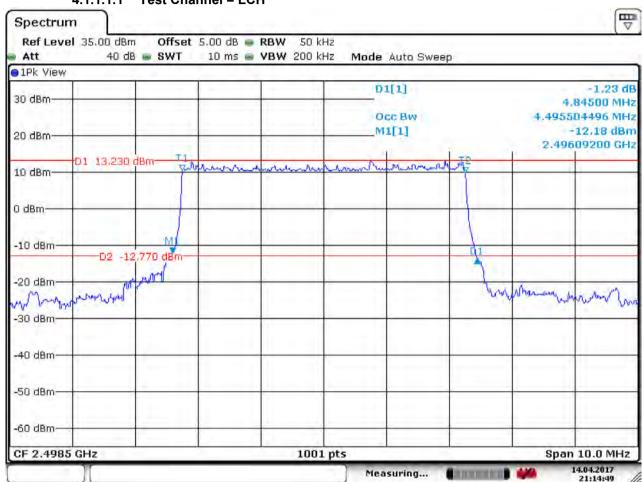
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4.1 For LTE

4.1.1 Test Band = LTE band41

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



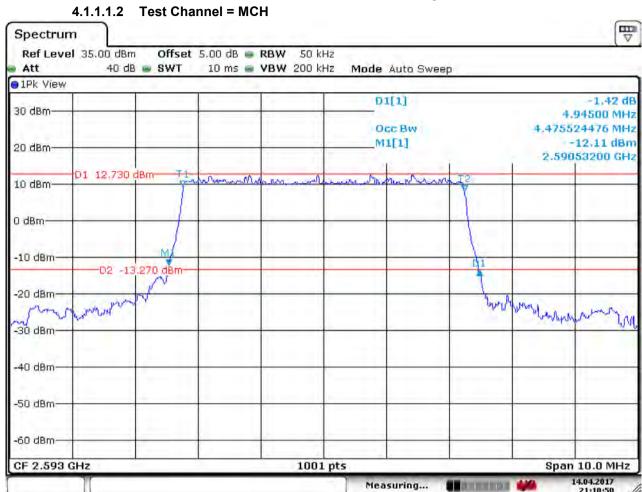
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21:10:50

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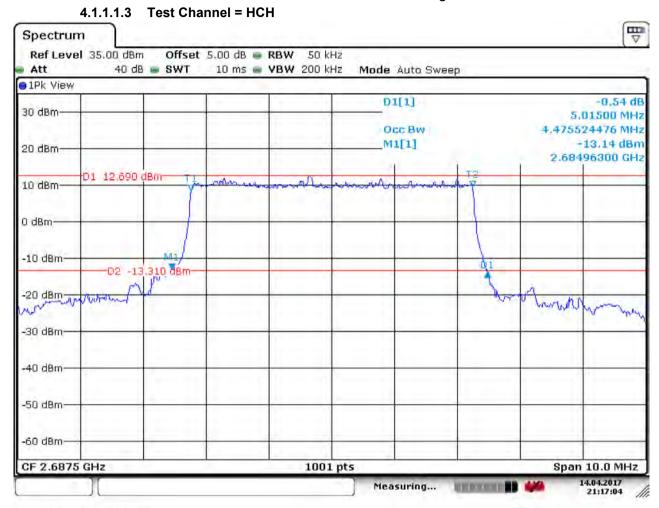


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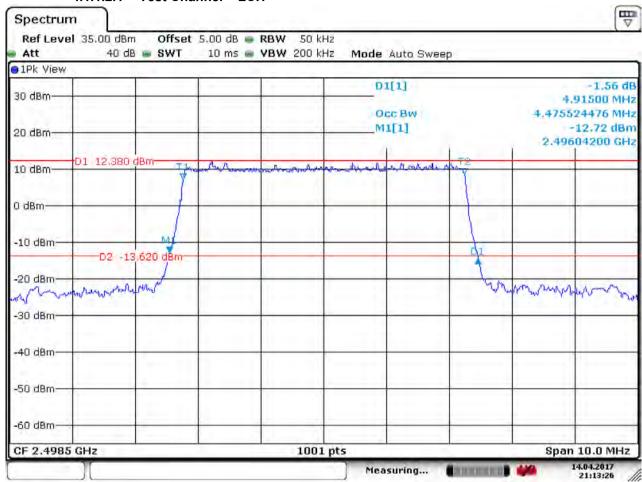


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4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH



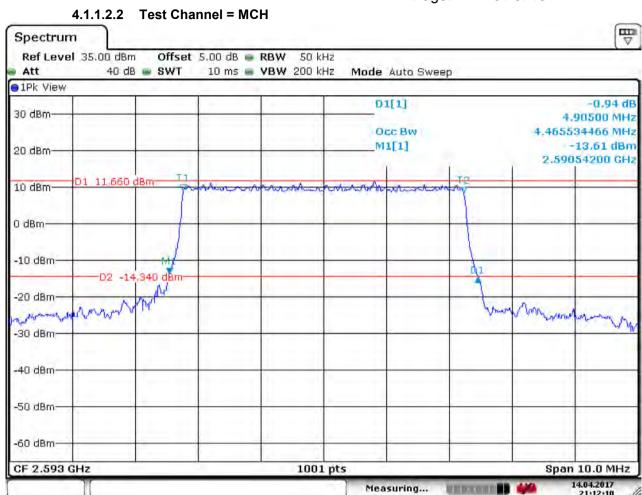
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21:12:10

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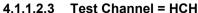
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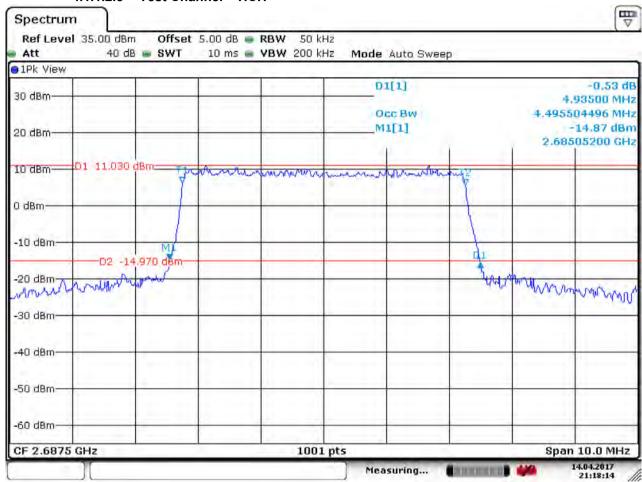
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Date: 14.APR.2017 21:18:15

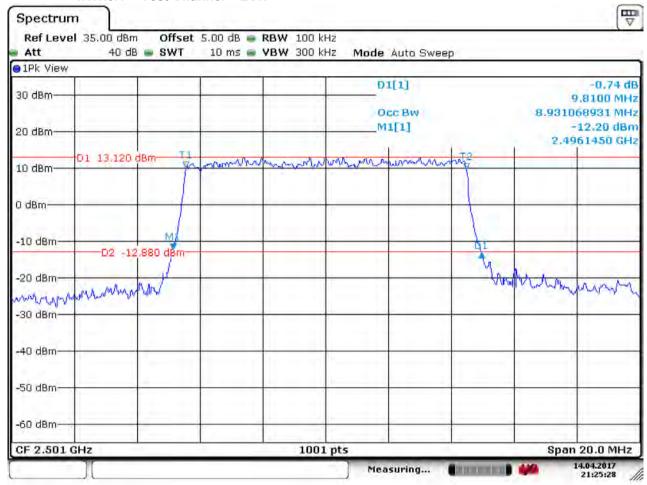


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4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH

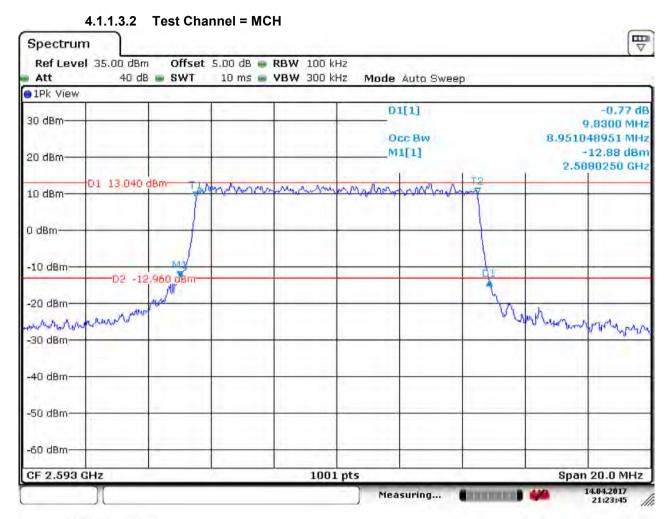


Date: 14.APR.2017 21:25:29



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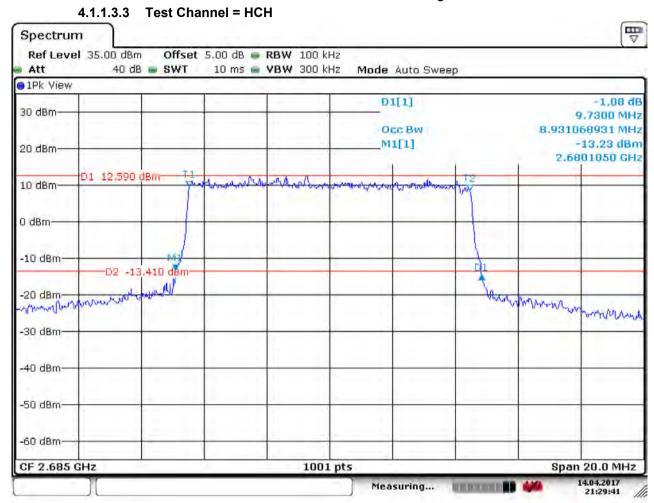


Date: 14.APR.2017 21:23:45



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Date: 14.APR.2017 21:29:41

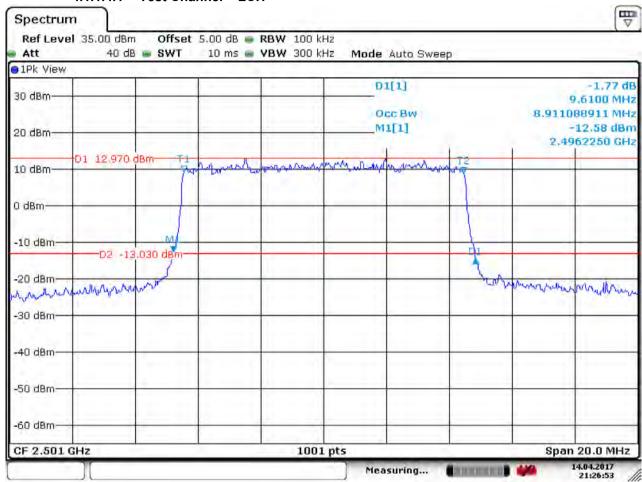


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4.1.1.4 Test Mode = LTE/TM2 10MHz

4.1.1.4.1 Test Channel = LCH

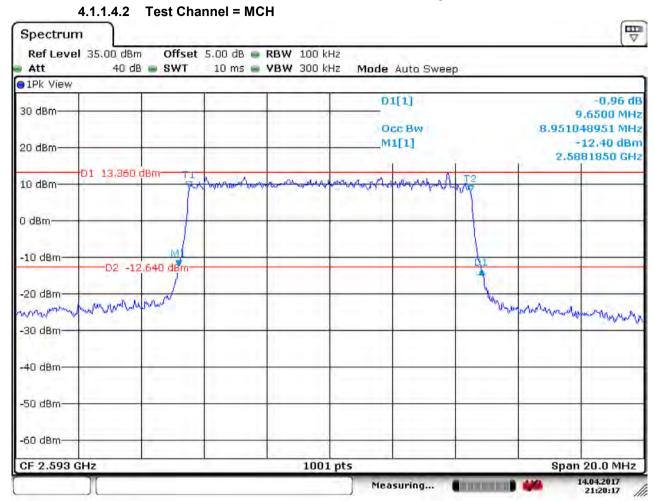


Date: 14.APR 2017 21:26:54



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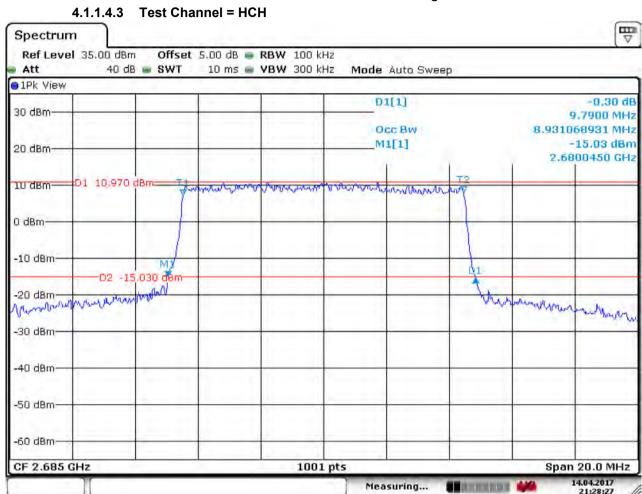


Date: 14.APR.2017 21:20:17



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Date: 14.APR.2017 21:28:27

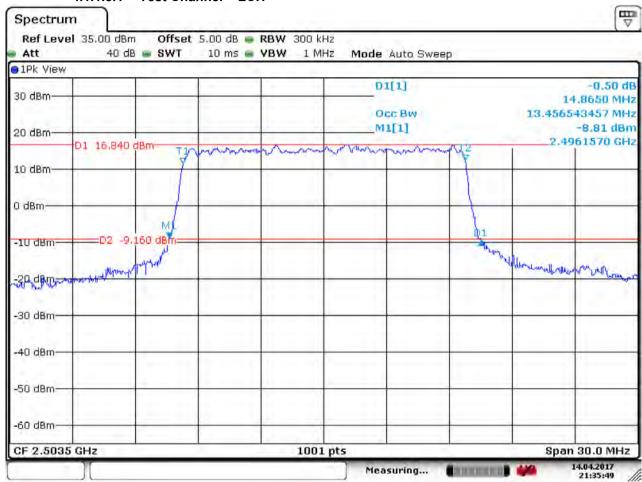


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4.1.1.5 Test Mode = LTE/TM1 15MHz

4.1.1.5.1 Test Channel = LCH

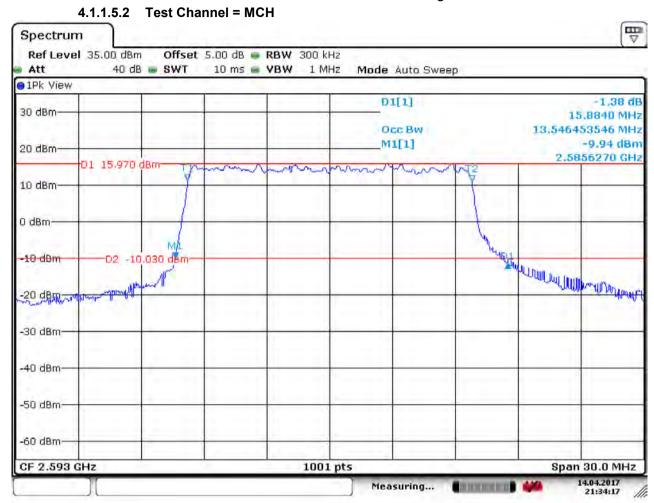


Date: 14.APR.2017 21:35:49



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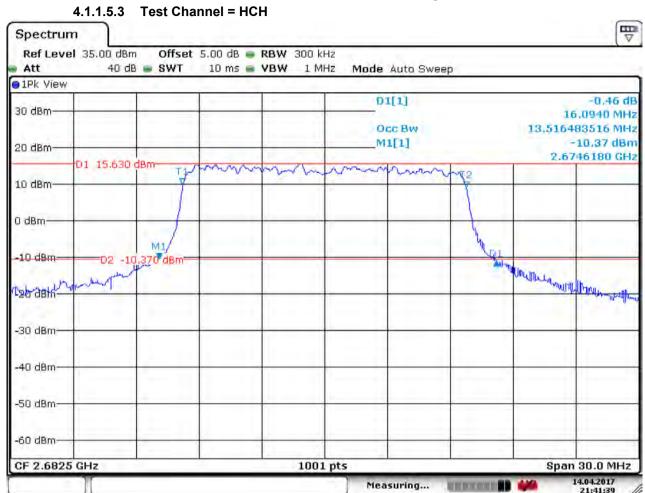


Date: 14.APR.2017 21:34:17



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Date: 14.APR 2017 21:41:39

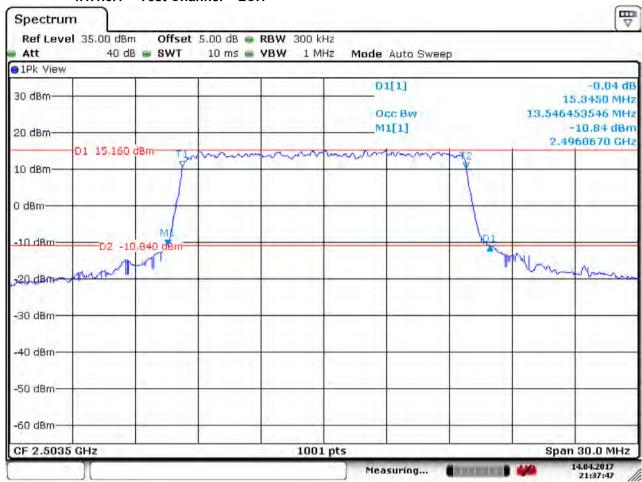


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4.1.1.6 Test Mode = LTE/TM2 15MHz

4.1.1.6.1 Test Channel = LCH

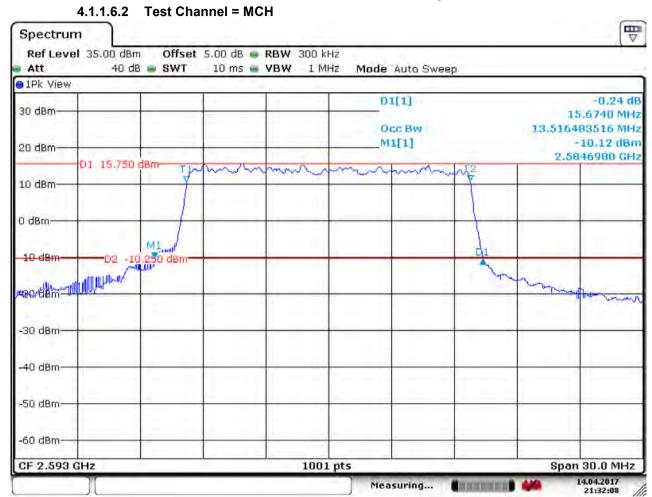


Date: 14.APR:2017 21:37:48



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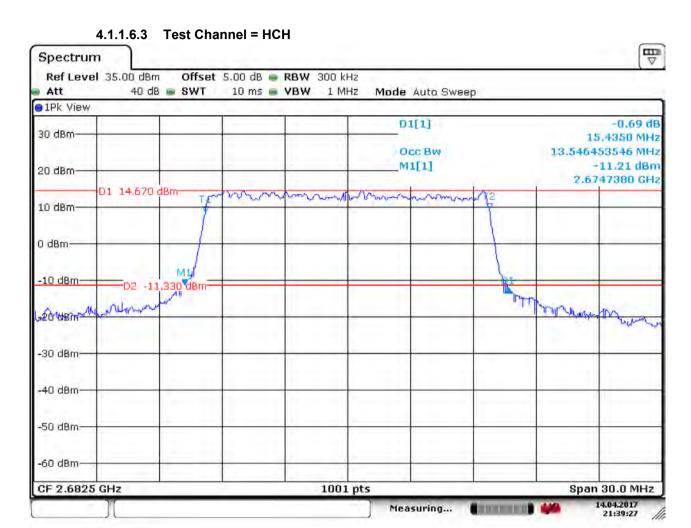


Date: 14.APR.2017 21:32:08



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Date: 14.APR 2017 21:39:28

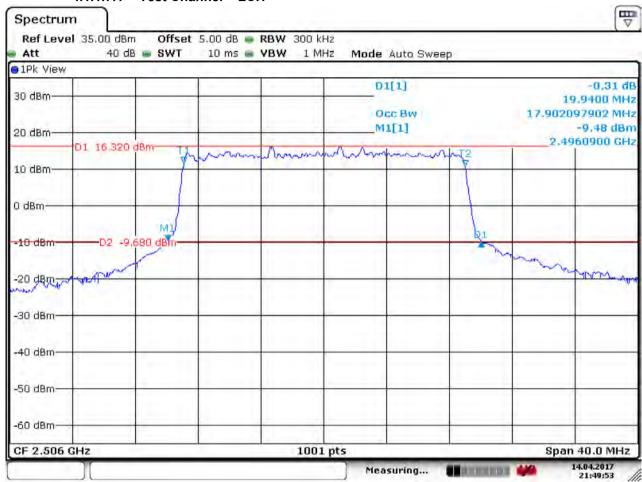


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4.1.1.7 Test Mode = LTE/TM1 20MHz

4.1.1.7.1 Test Channel = LCH

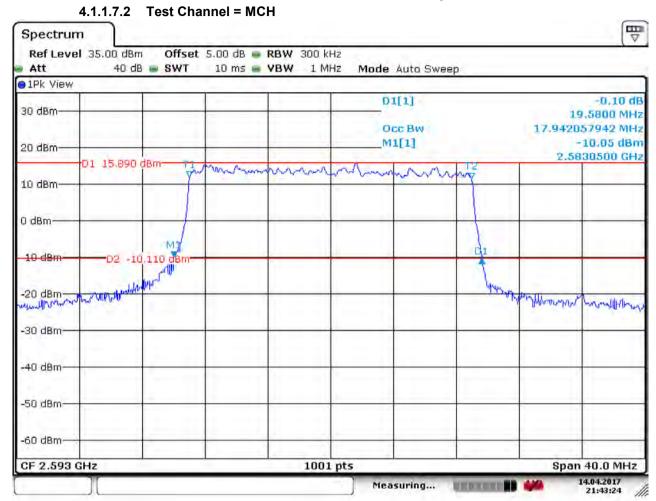


Date: 14.APR 2017 21:49:54



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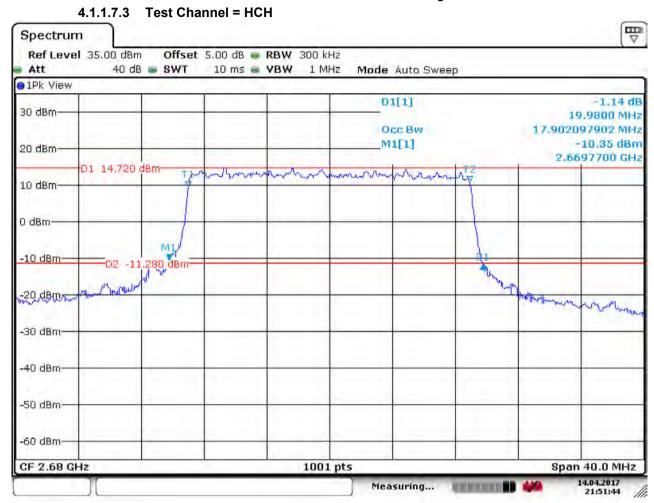


Date: 14.APR.2017 21:43:24



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Date: 14.APR.2017 21:51:44

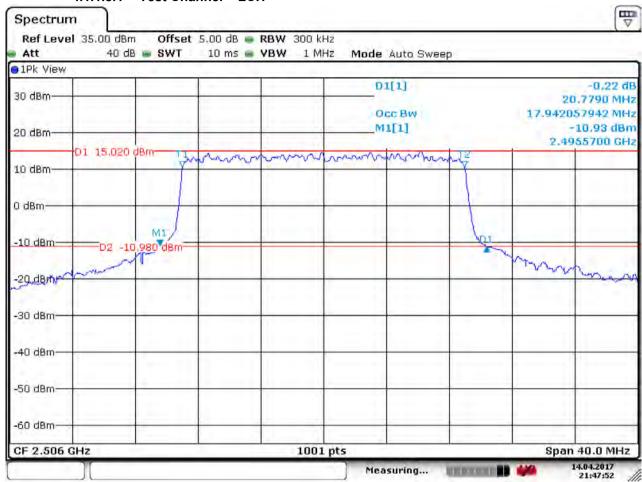


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4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH



Date: 14.APR 2017 21:47:52



Report No.: SZEM170300261304

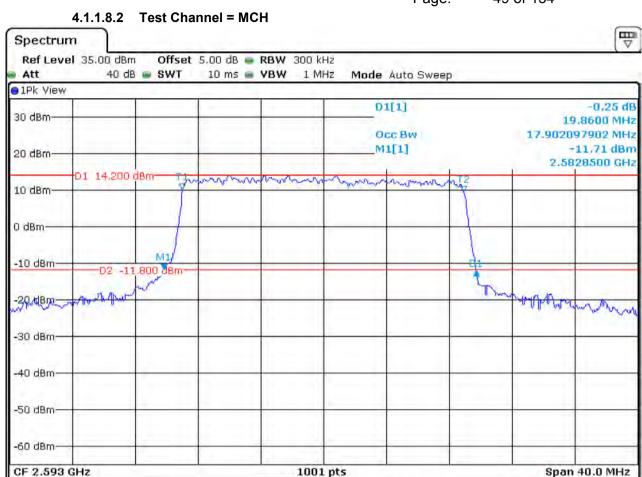
14.04.2017

21:45:01

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UNDERSONAL PROPERTY.

Measuring...



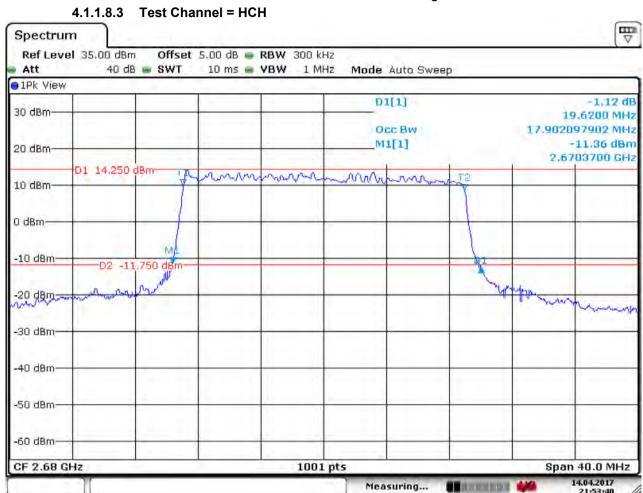
Date: 14.APR.2017 21:45:02



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21:53:40

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Date: 14.APR.2017 21:53:40



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5 Band Edges Compliance

Part I -

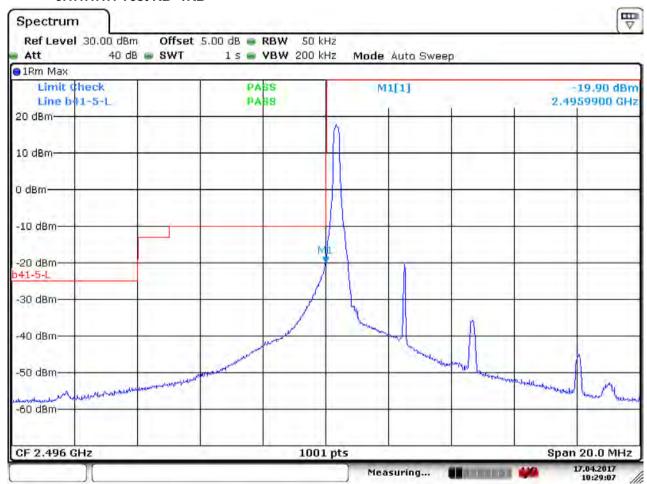
5.1 For LTE

5.1.1 Test Band = LTE band41

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



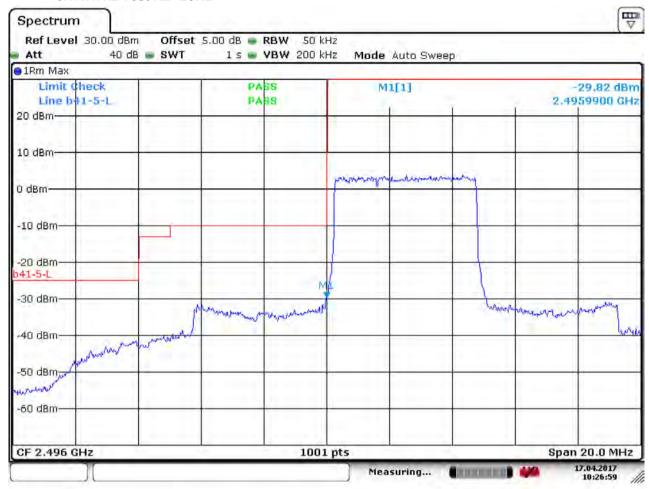
Date: 17.APR.2017 10:29:07



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5.1.1.1.1.2 Test RB=25RB



Date: 17.APR.2017 10:26:59

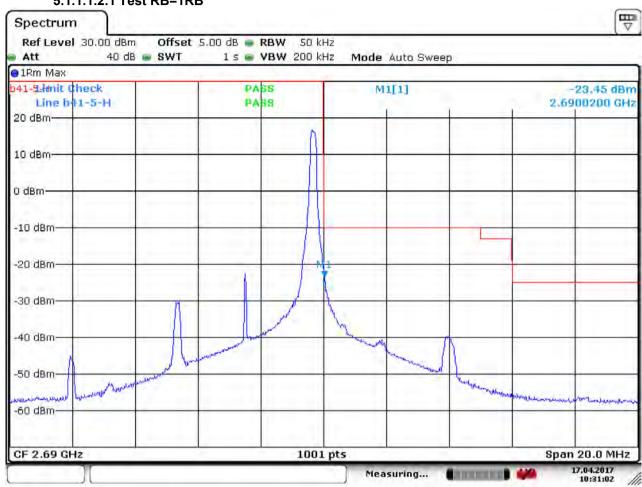


Report No.: SZEM170300261304

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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



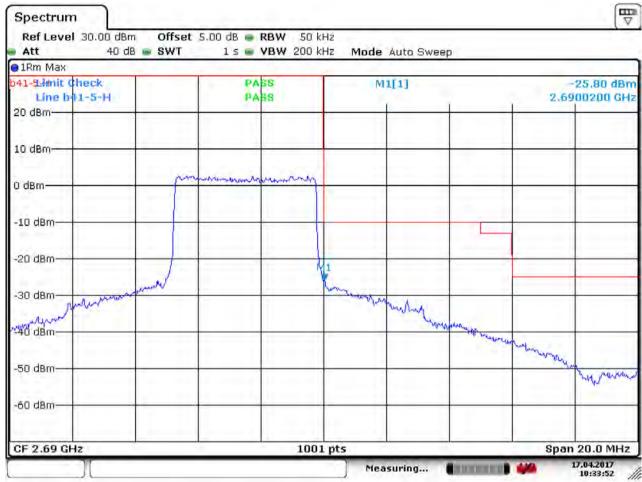
Date: 17.APR.2017 10:31:03



Report No.: SZEM170300261304

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5.1.1.1.2.2 Test RB=25RB



Date: 17.APR.2017 10:33:52

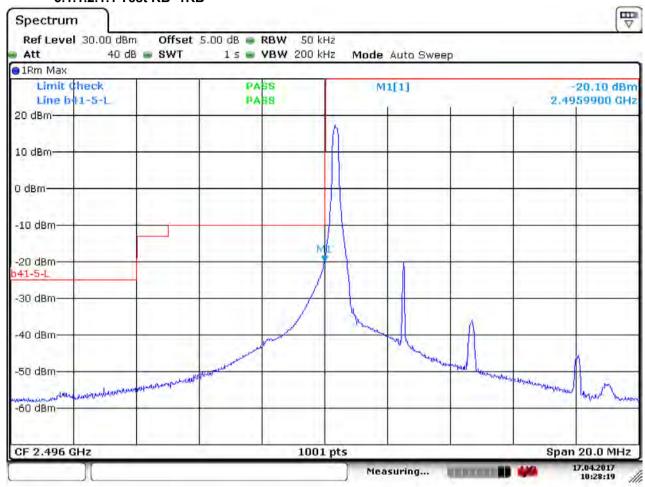


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5.1.1.2 Test Mode = LTE/TM2 5MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



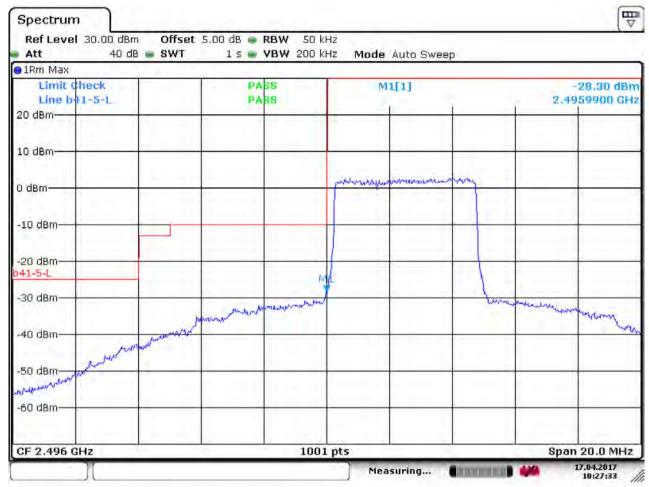
Date: 17.APR.2017 10:28:20



Report No.: SZEM170300261304

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5.1.1.2.1.2 Test RB=25RB



Date: 17.APR 2017 10:27:34

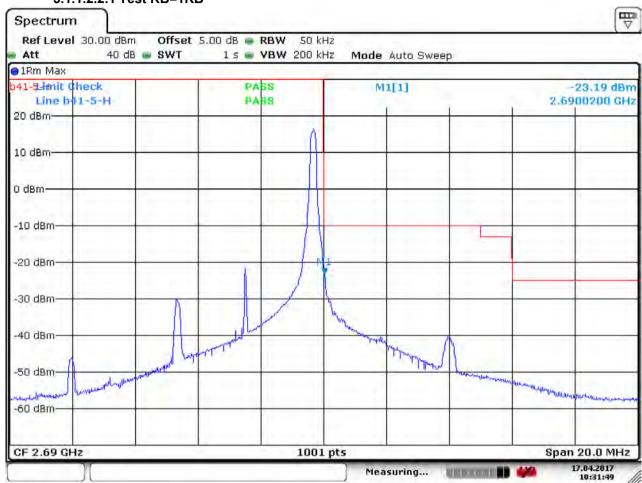


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



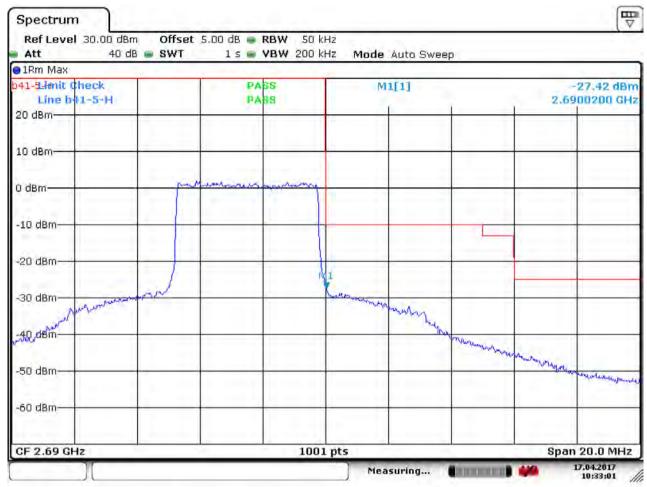
Date: 17.APR.2017 10:31:50



Report No.: SZEM170300261304

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5.1.1.2.2.2 Test RB=25RB



Date: 17.APR.2017 10:33:01

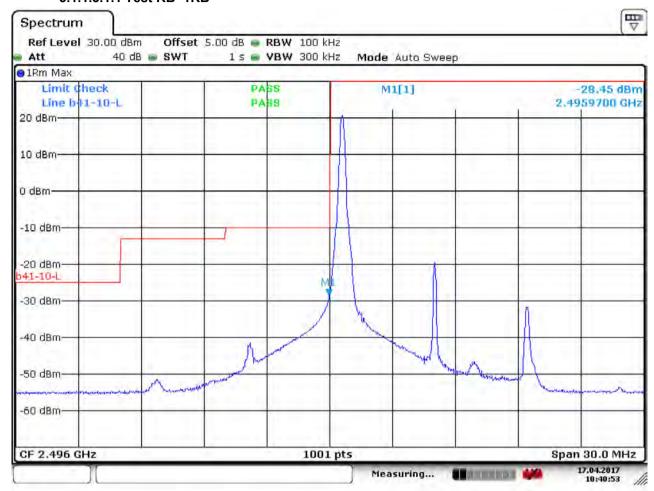


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5.1.1.3 Test Mode = LTE/TM1 10MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



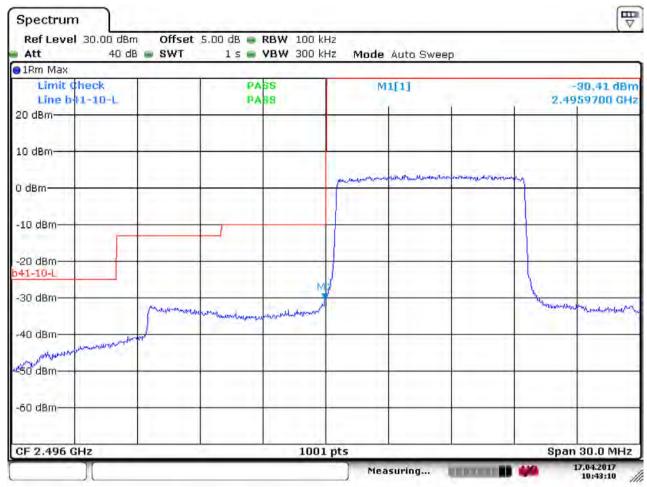
Date: 17.APR.2017 10:40:54



Report No.: SZEM170300261304

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5.1.1.3.1.2 Test RB=50RB



Date: 17.APR.2017 10:43:11

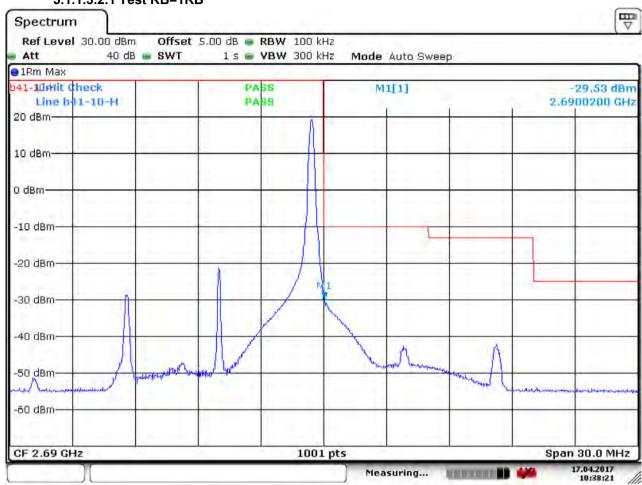


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



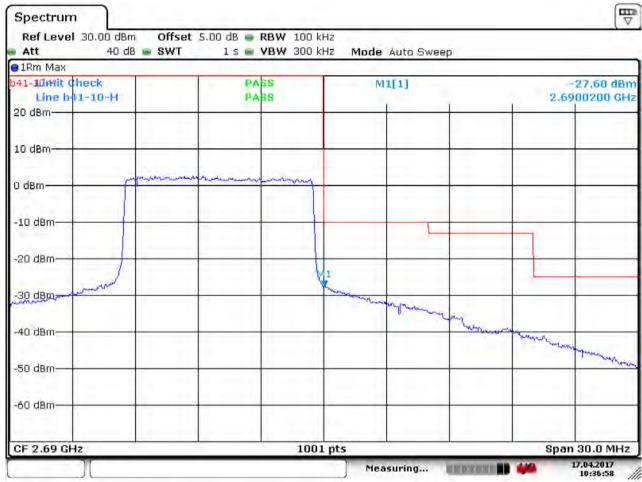
Date: 17.APR.2017 10:38:22



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5.1.1.3.2.2 Test RB=50RB



Date: 17.APR.2017 10:36:59

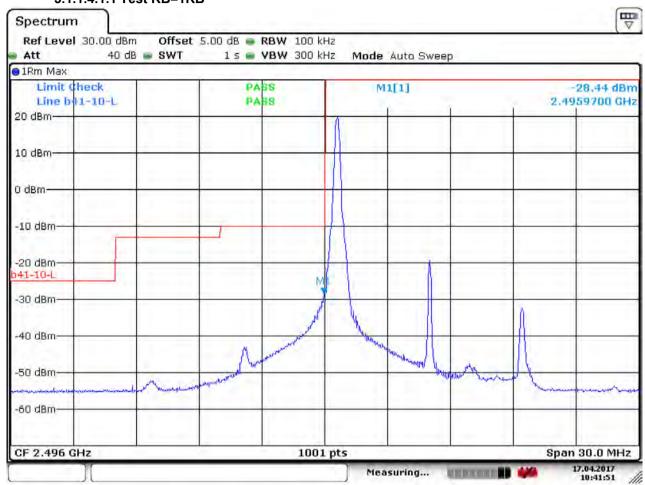


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5.1.1.4 Test Mode = LTE/TM2 10MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



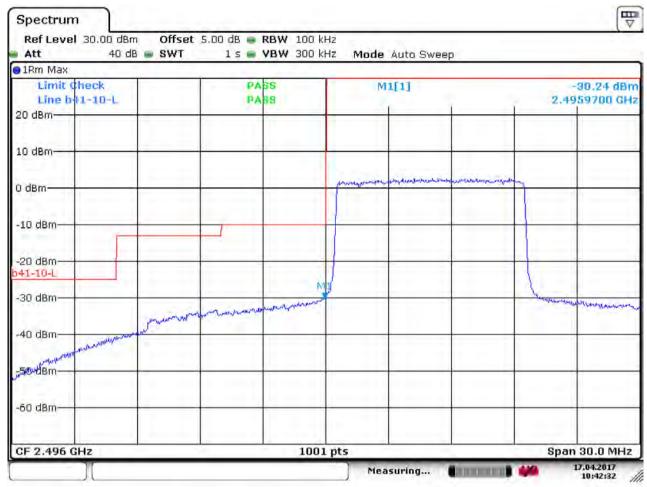
Date: 17.APR.2017 10:41:52



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5.1.1.4.1.2 Test RB=50RB



Date: 17.APR.2017 10:42:32

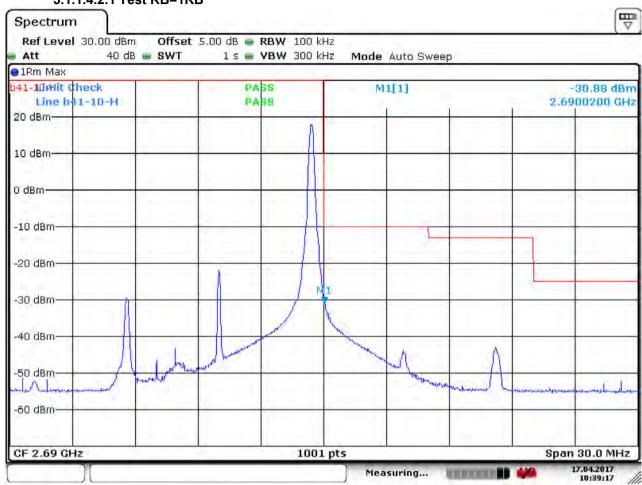


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



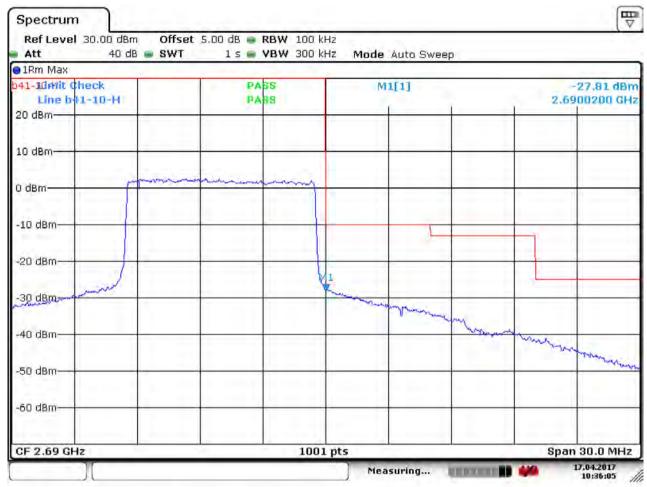
Date: 17.APR.2017 10:39:18



Report No.: SZEM170300261304

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5.1.1.4.2.2 Test RB=50RB



Date: 17.APR 2017 10:36:06

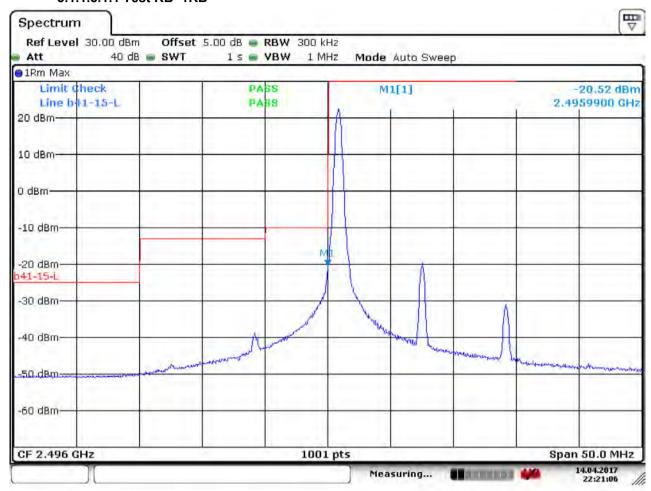


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5.1.1.5 Test Mode = LTE/TM1 15MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 14.APR 2017 22:21:07



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5.1.1.5.1.2 Test RB=75RB



Date: 14.APR 2017 22:19:19

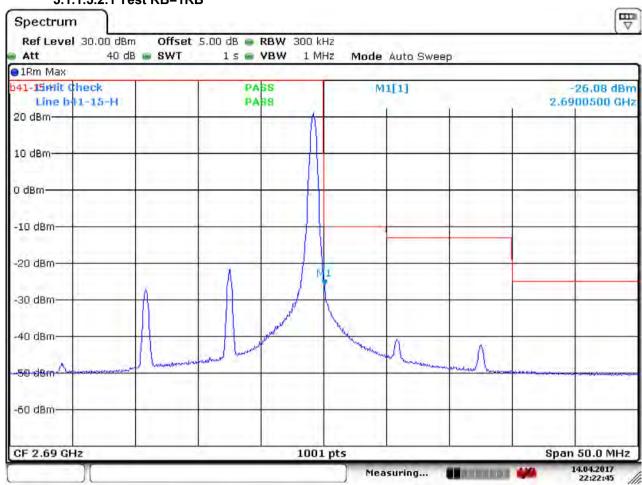


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 14.APR 2017 22:22:45



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5.1.1.5.2.2 Test RB=75RB



Date: 14.APR.2017 22:24:35

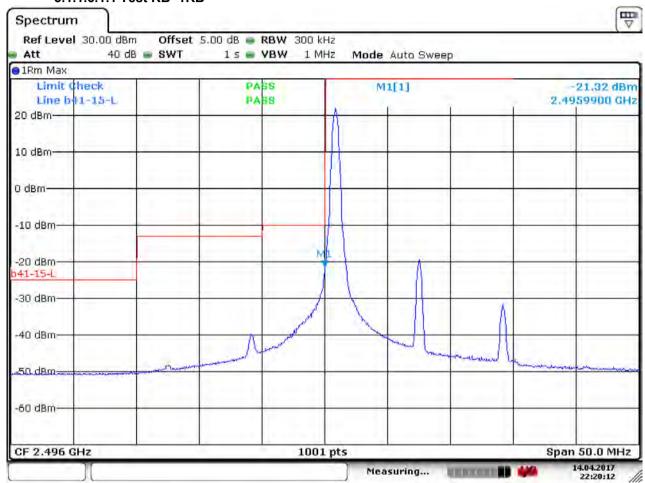


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5.1.1.6 Test Mode = LTE/TM2 15MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



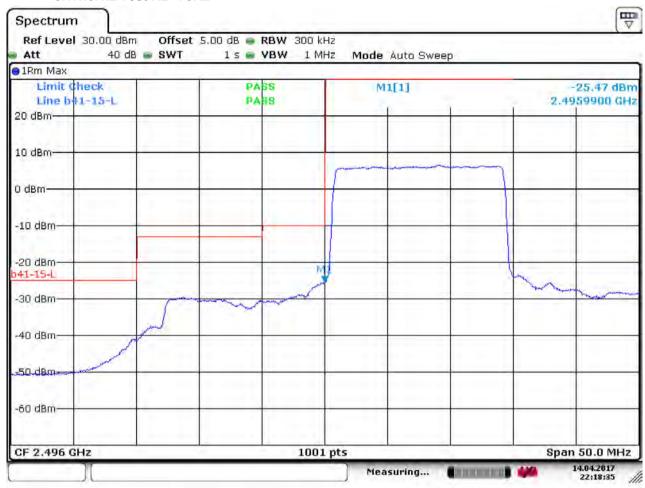
Date: 14.APR.2017 22:20:12



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5.1.1.6.1.2 Test RB=75RB



Date: 14.APR.2017 22:18:36

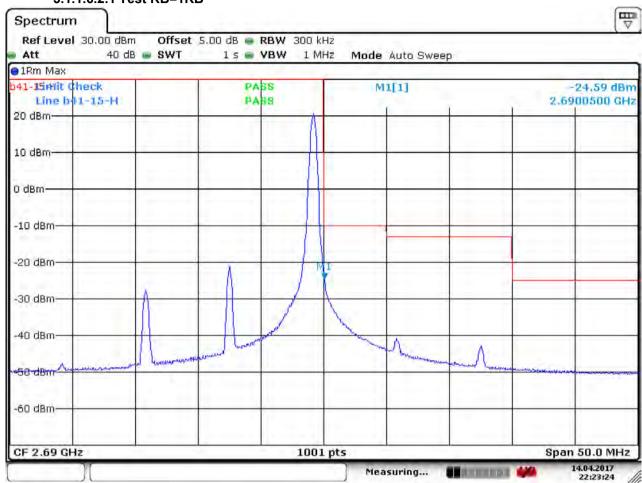


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



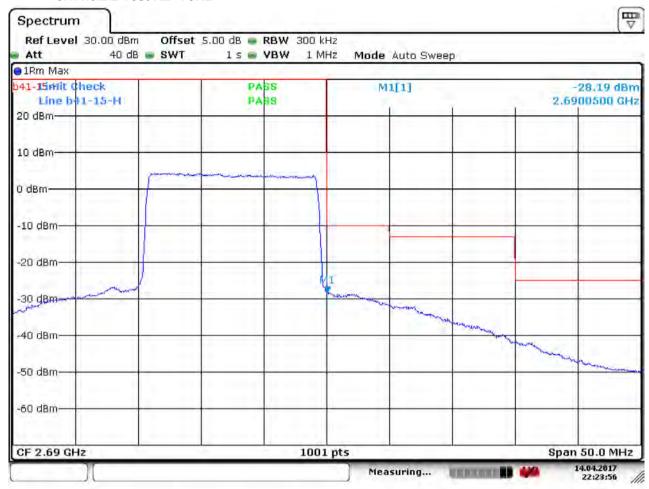
Date: 14.APR.2017 22:23:25



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5.1.1.6.2.2 Test RB=75RB



Date: 14.APR.2017 22:23:56

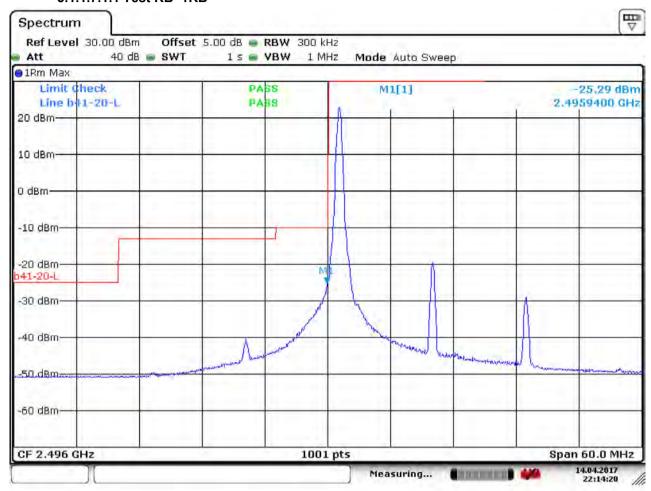


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5.1.1.7 Test Mode = LTE/TM1 20MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



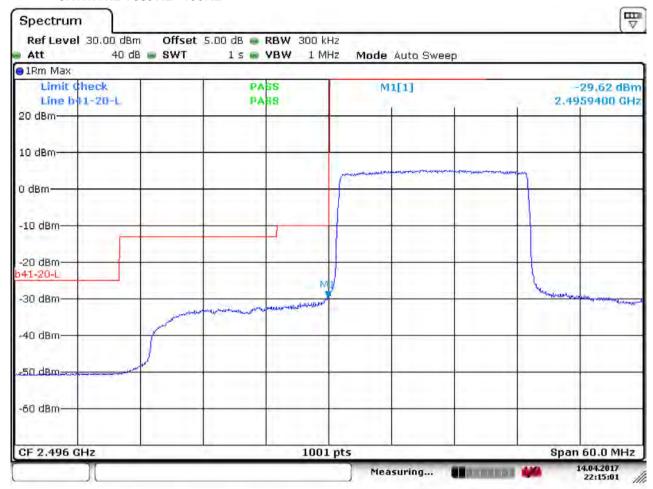
Date: 14.APR.2017 22:14:20



Report No.: SZEM170300261304

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5.1.1.7.1.2 Test RB=100RB



Date: 14.APR.2017 22:15:02

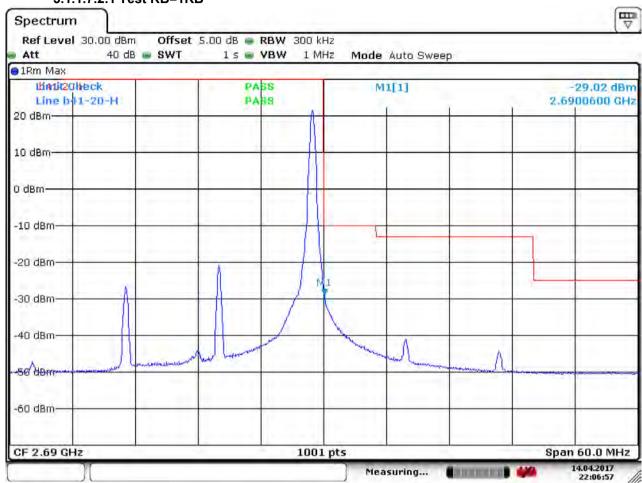


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 14.APR.2017 22:06:57



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5.1.1.7.2.2 Test RB=100RB



Date: 14.APR.2017 22:06:16

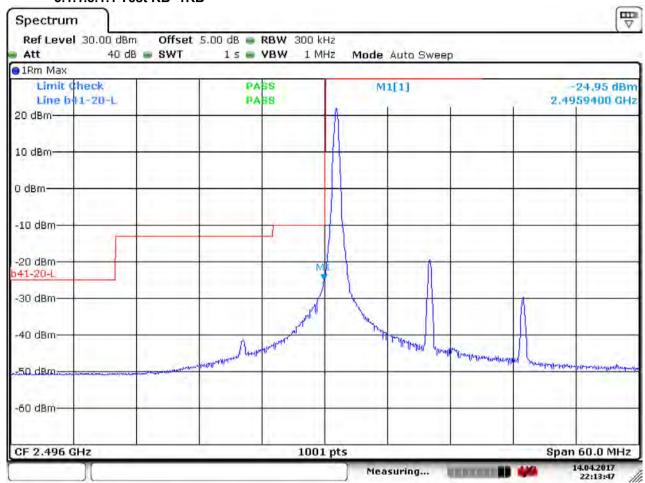


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5.1.1.8 Test Mode = LTE/TM2 20MHz 5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



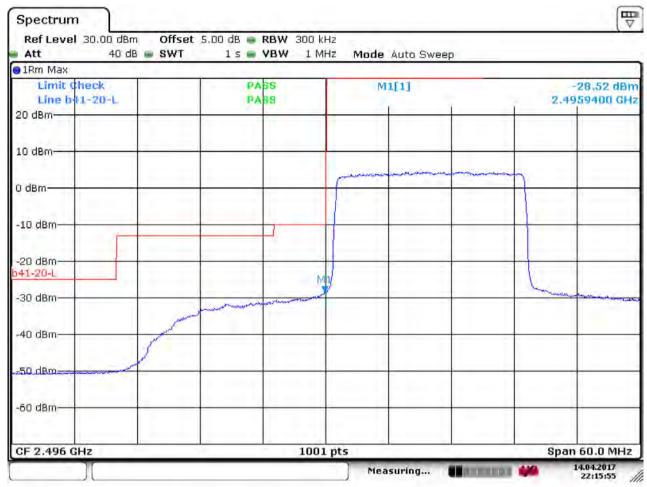
Date: 14.APR.2017 22:13:47



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5.1.1.8.1.2 Test RB=100RB



Date: 14.APR.2017 22:15:55

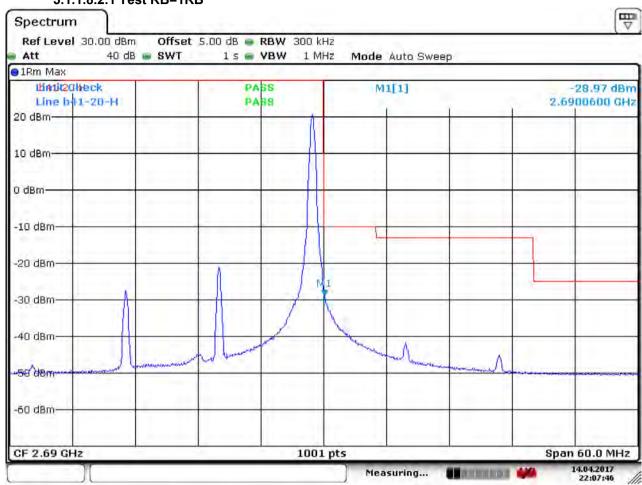


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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



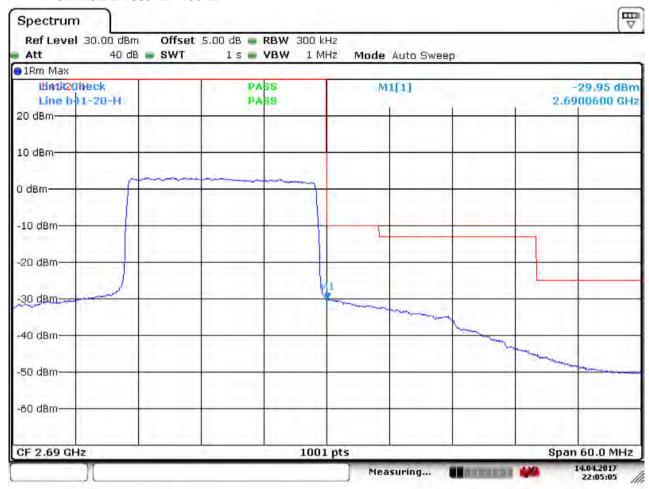
Date: 14.APR.2017 22:07:47



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5.1.1.8.2.2 Test RB=100RB



Date: 14.APR.2017 22:05:06



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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.

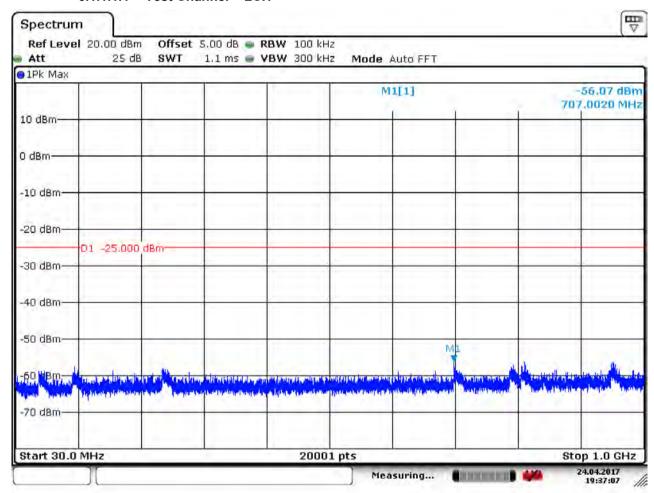
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band41

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

6.1.1.1.1 Test Channel = LCH

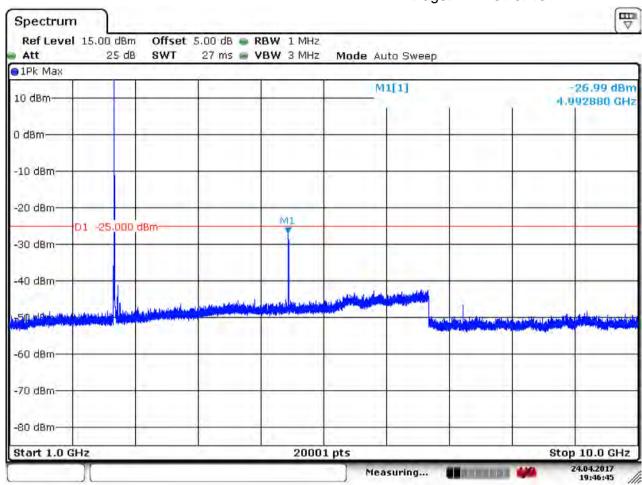


Date: 24.APR.2017 19:37:07



Report No.: SZEM170300261304

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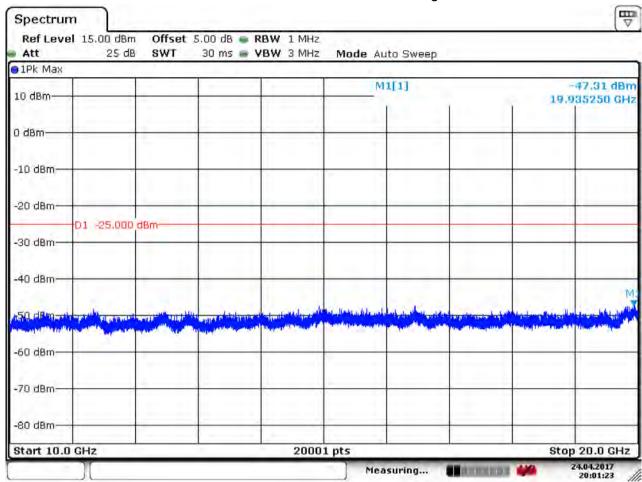


Date: 24.APR.2017 19:46:45



Report No.: SZEM170300261304

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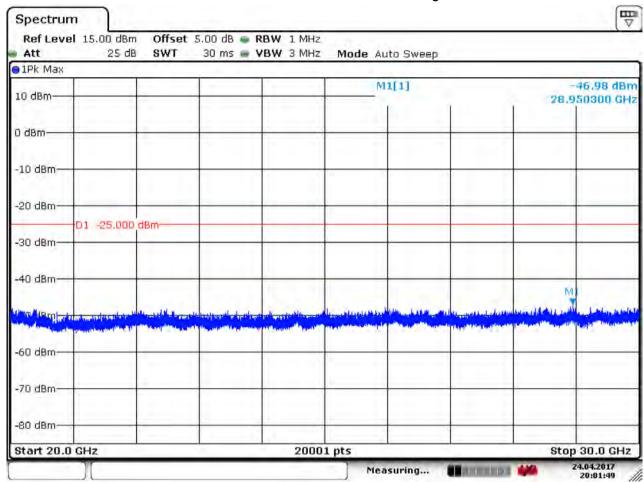


Date: 24.APR.2017 20:01:23



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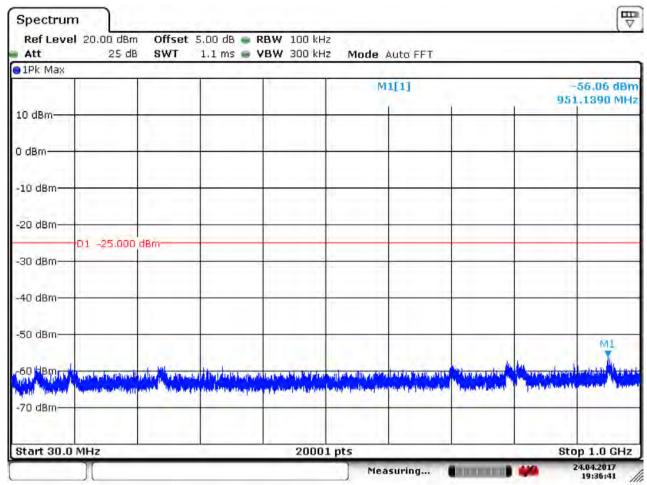
Date: 24.APR.2017 20:01:50



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6.1.1.1.2 Test Channel = MCH

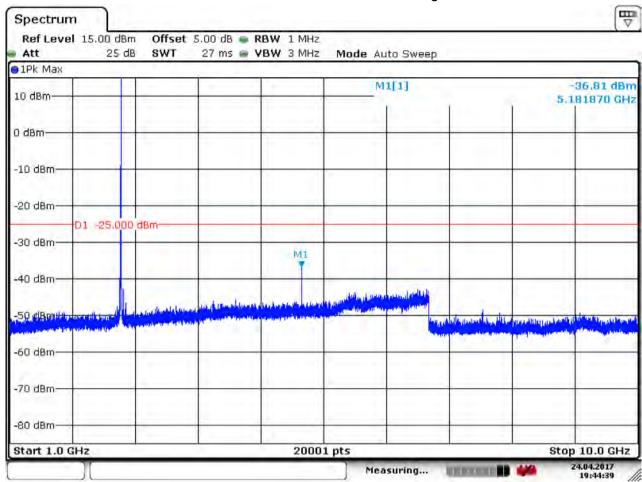


Date: 24.APR.2017 19:36:42



Report No.: SZEM170300261304

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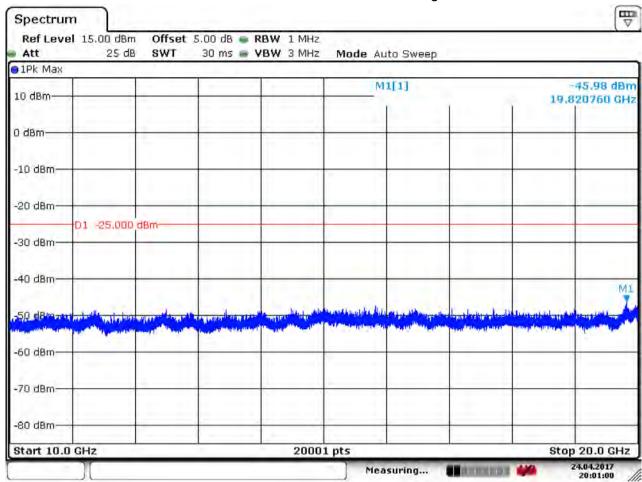


Date: 24.APR.2017 19:44:39



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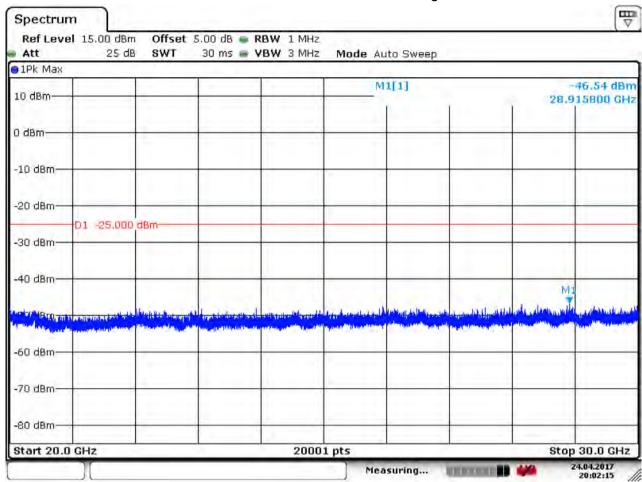


Date: 24.APR.2017 20:01:00



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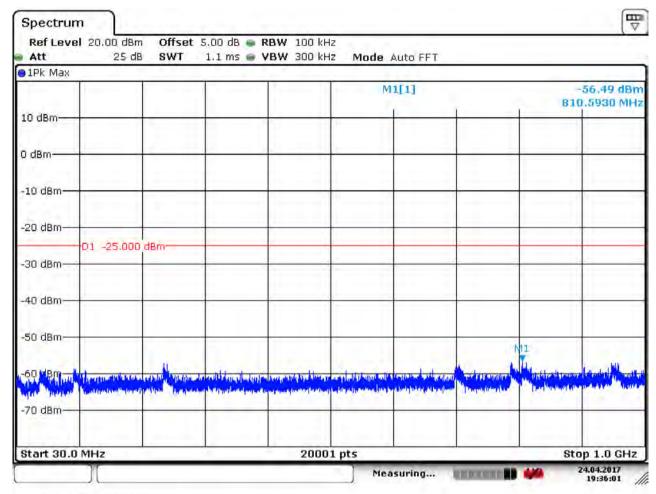
Date: 24.APR 2017 20:02:14



Report No.: SZEM170300261304

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6.1.1.1.3 Test Channel = HCH

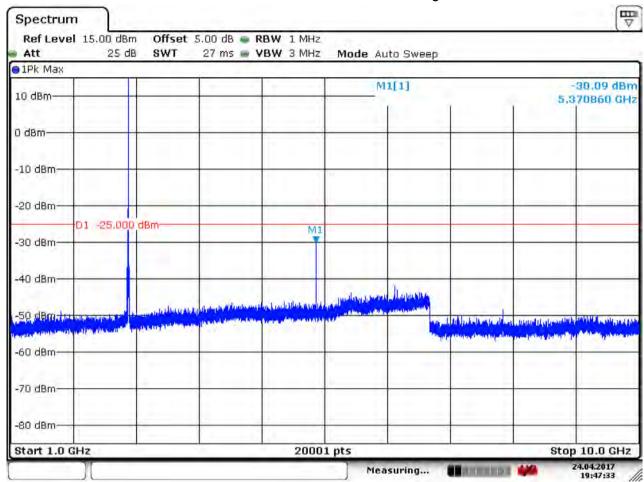


Date: 24.APR.2017 19:36:01



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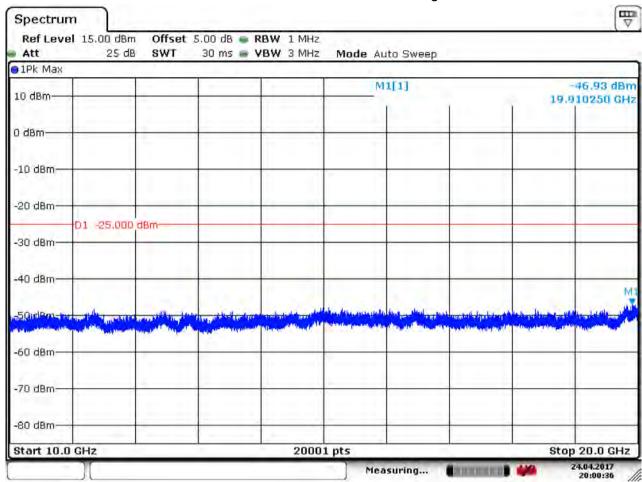


Date: 24.APR.2017 19:47:34



Report No.: SZEM170300261304

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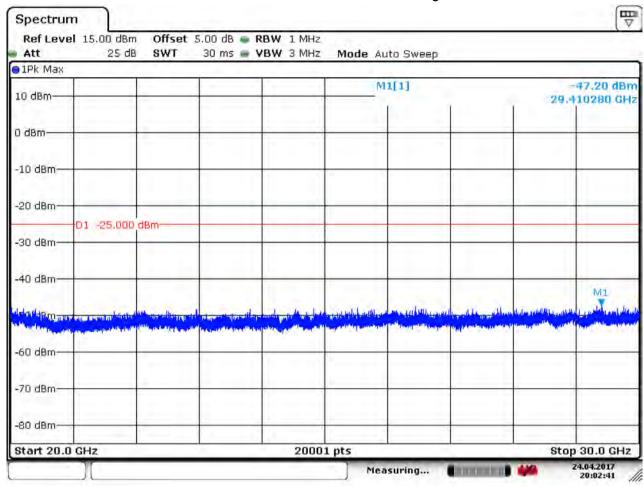


Date: 24.APR.2017 20:00:37



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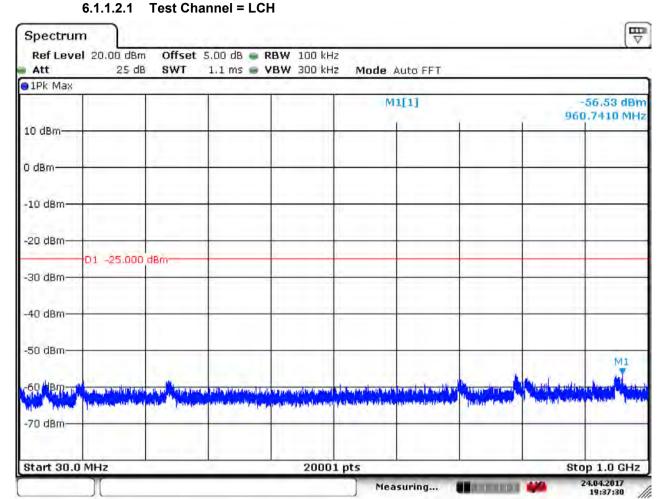
Date: 24.APR.2017 20:02:41



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

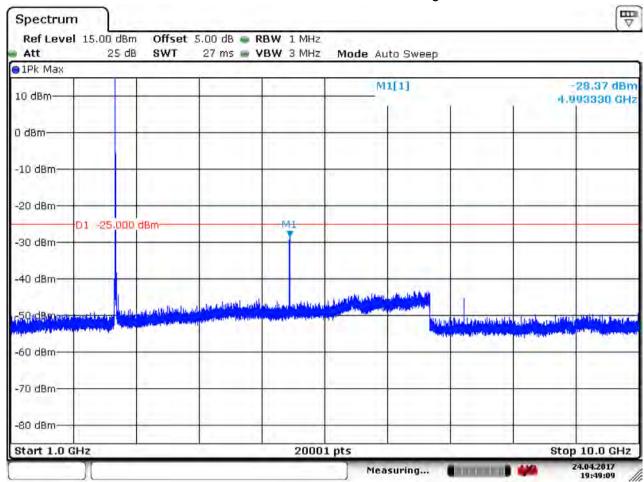


Date: 24.APR.2017 19:37:30



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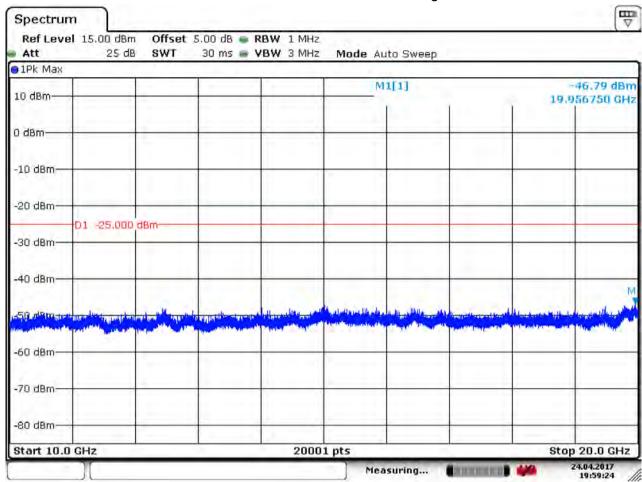


Date: 24.APR.2017 19:49:09



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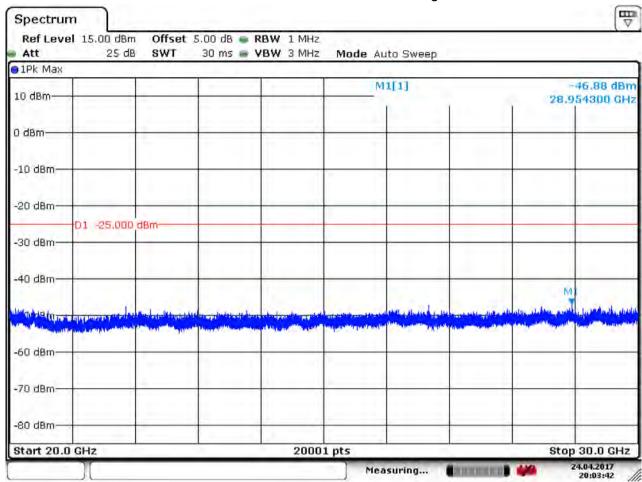


Date: 24.APR.2017 19:59:24



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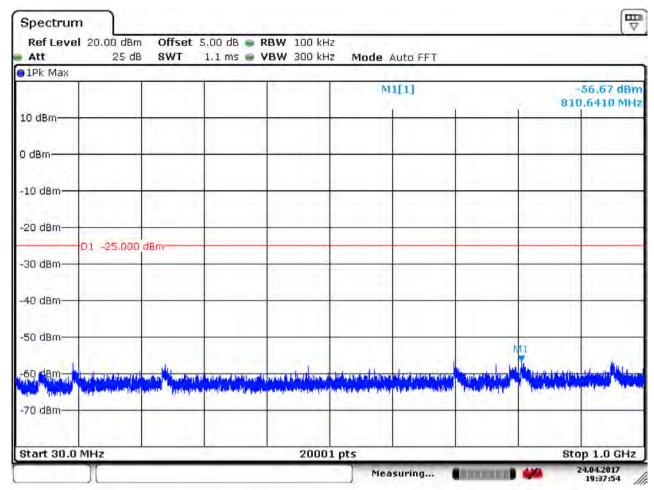
Date: 24.APR.2017 20:03:42



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6.1.1.2.2 Test Channel = MCH

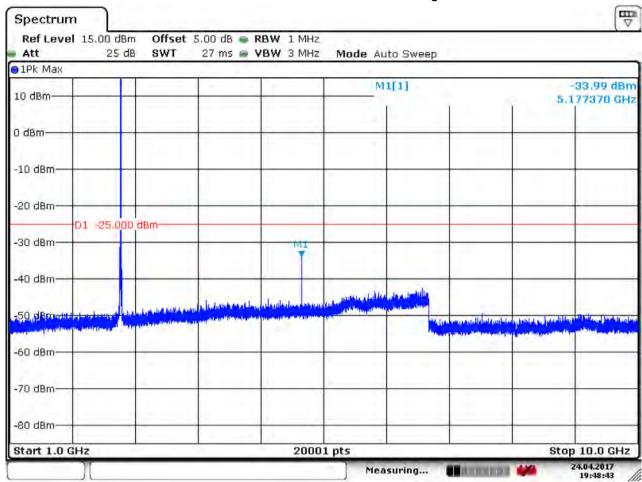


Date: 24.APR.2017 19:37:55



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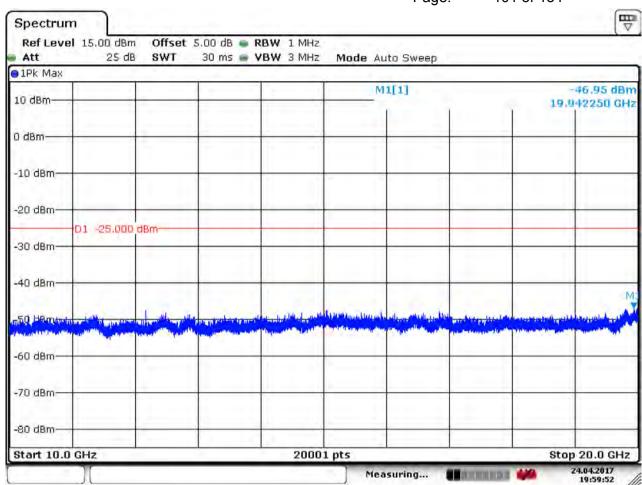


Date: 24.APR.2017 19:48:43



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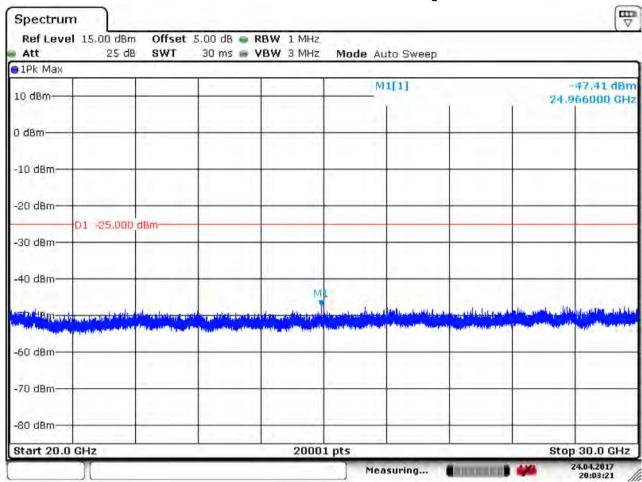


Date: 24.APR.2017 19:59:52



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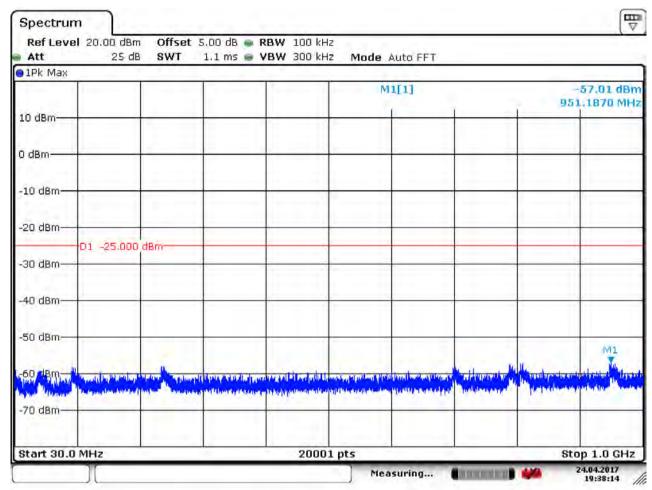
Date: 24.APR.2017 20:03:21



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6.1.1.2.3 Test Channel = HCH

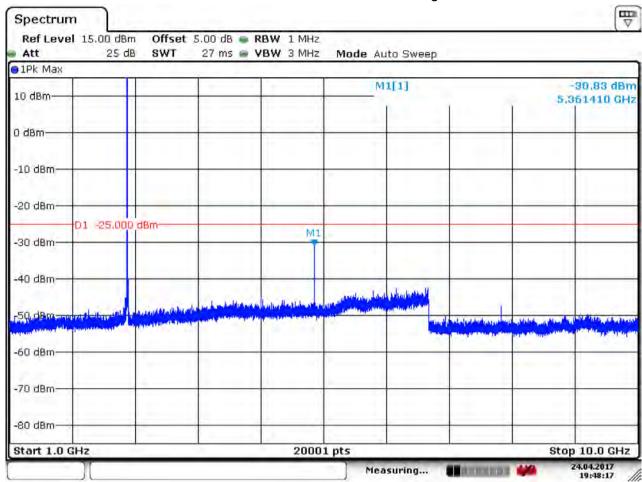


Date: 24.APR.2017 19:38:14



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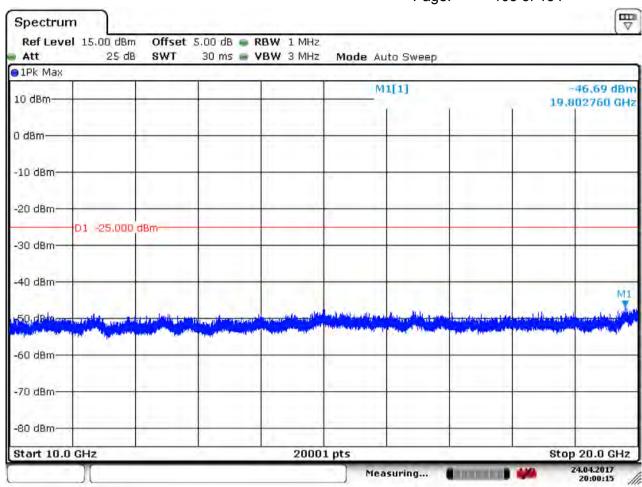


Date: 24.APR 2017 19:48:17



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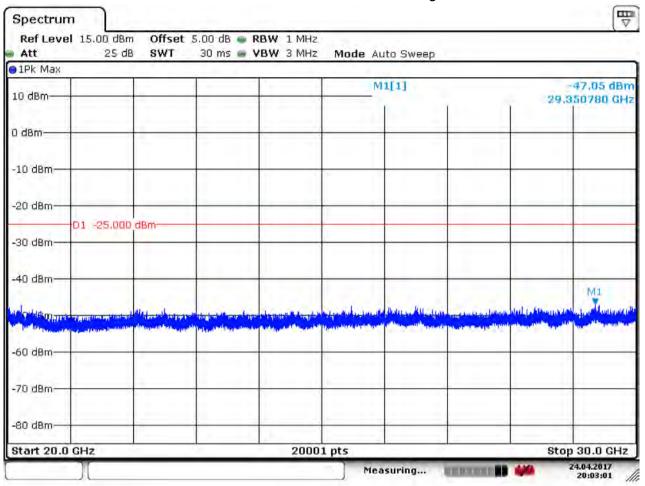


Date: 24.APR.2017 20:00:15



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Date: 24.APR.2017 20:03:02

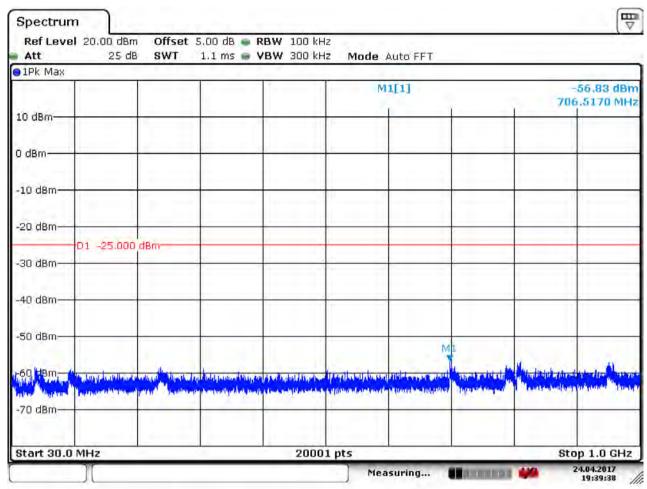


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6.1.1.3 Test Mode = LTE / TM1 15MHz RB1#0



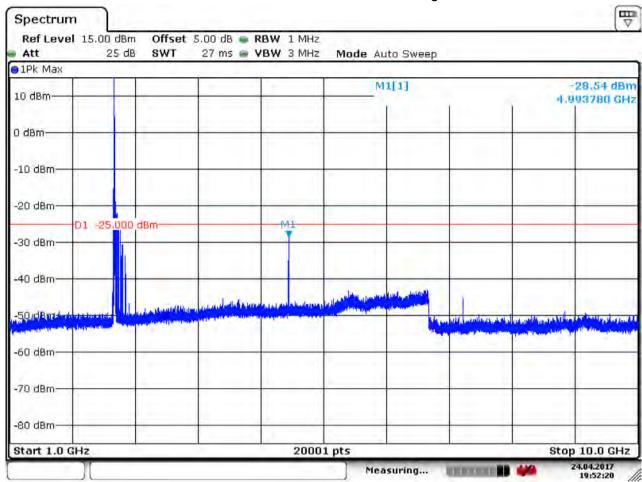


Date: 24.APR.2017 19:39:39



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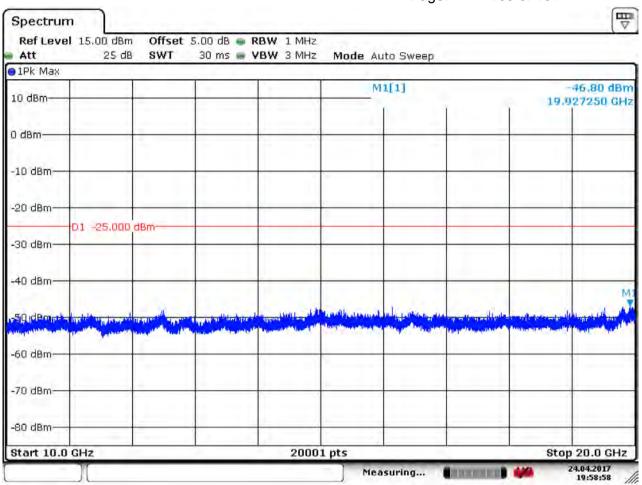


Date: 24.APR.2017 19:52:21



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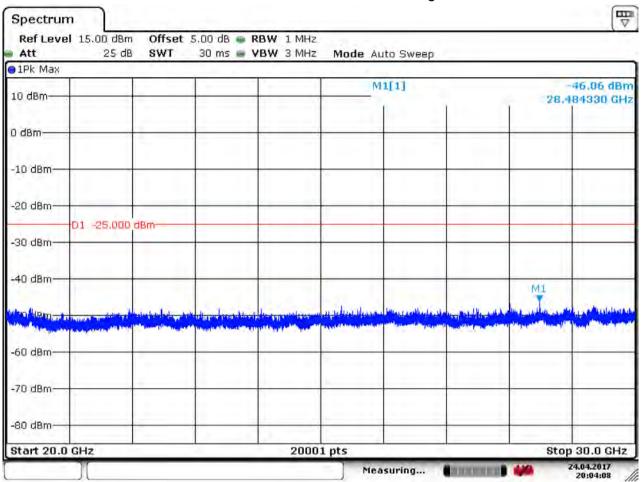


Date: 24.APR.2017 19:58:59



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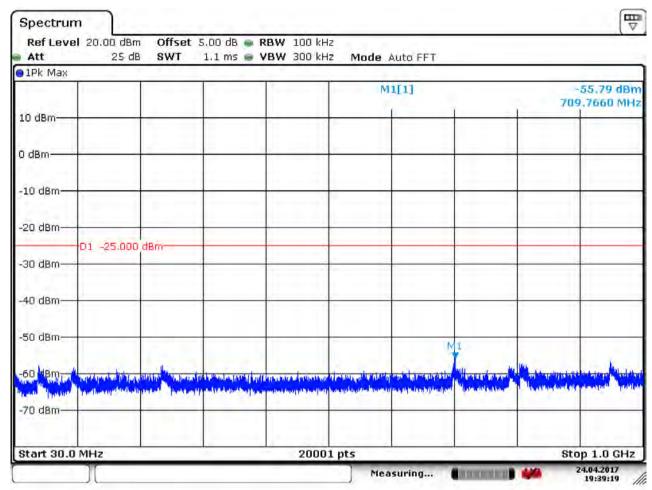
Date: 24.APR.2017 20:04:08



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6.1.1.3.2 Test Channel = MCH

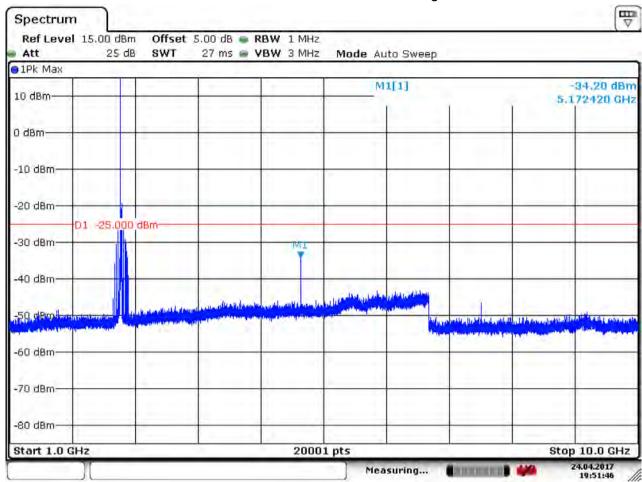


Date: 24.APR.2017 19:39:19



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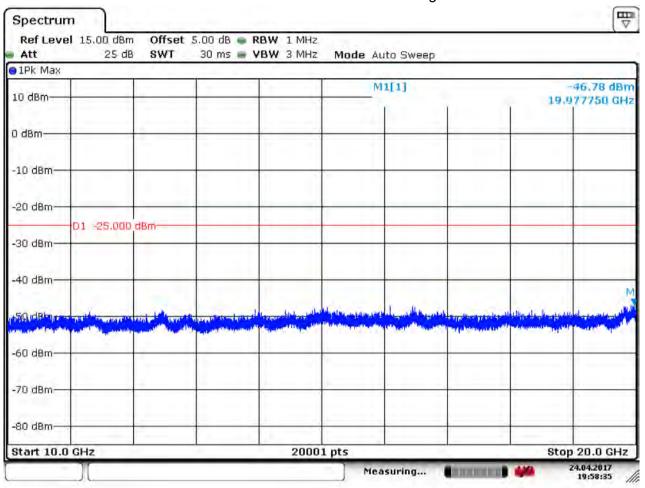


Date: 24.APR.2017 19:51:46



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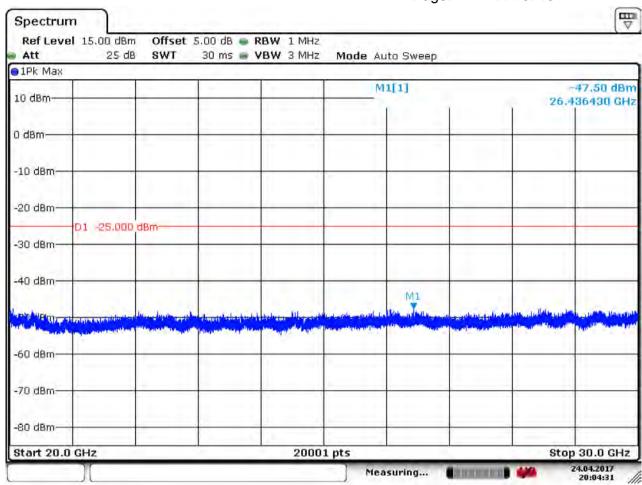


Date: 24.APR.2017 19:58:35



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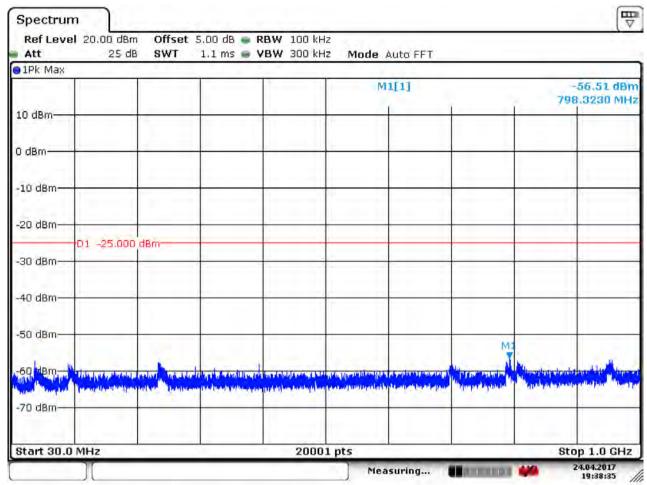
Date: 24.APR.2017 20:04:32



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6.1.1.3.3 Test Channel = HCH

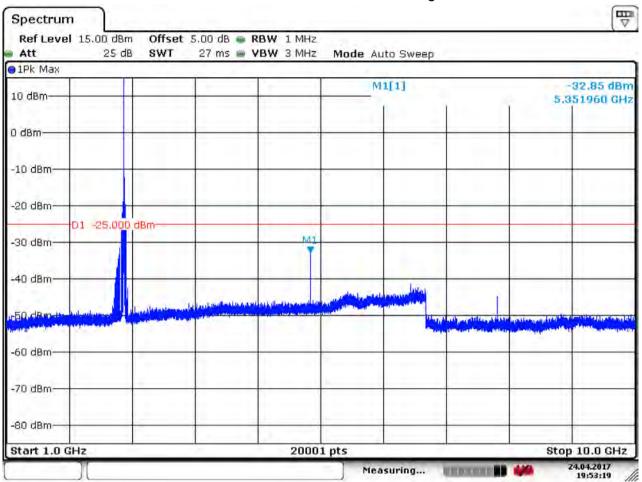


Date: 24.APR.2017 19:38:35



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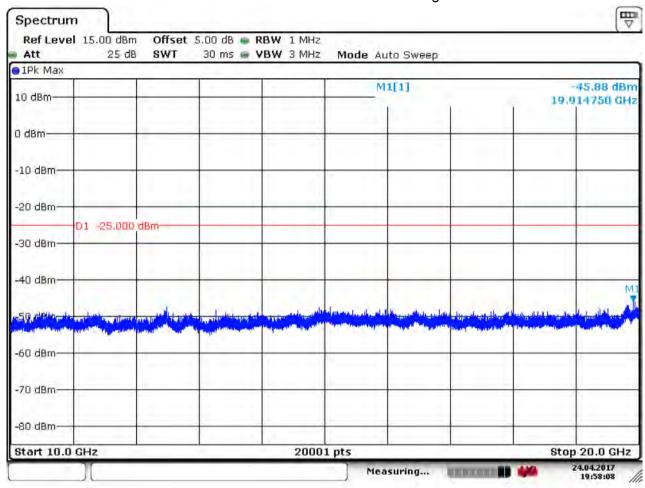


Date: 24.APR.2017 19:53:20



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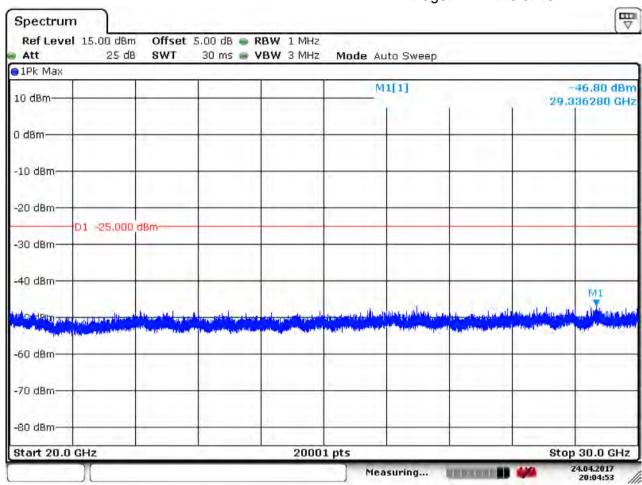


Date: 24.APR.2017 19:58:09



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Date: 24.APR.2017 20:04:53

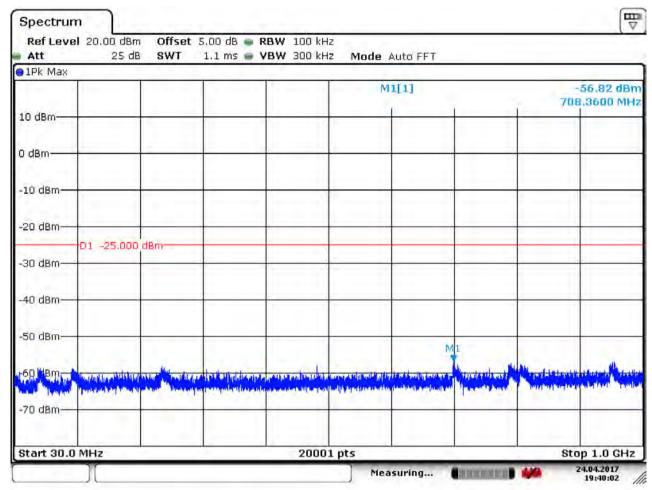


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6.1.1.4 Test Mode = LTE / TM1 20MHz RB1#0



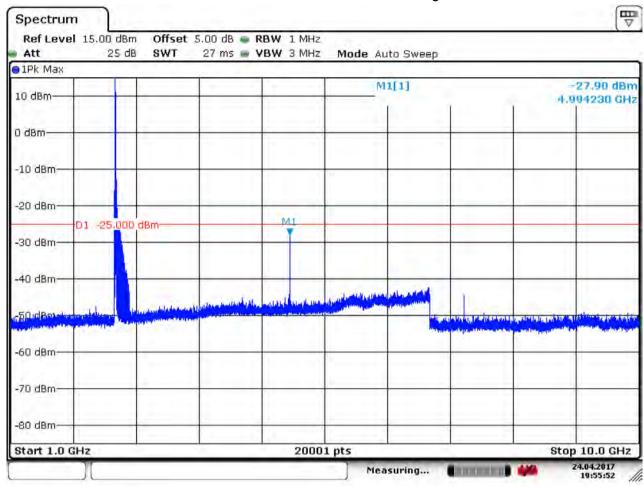


Date: 24.APR.2017 19:40:03



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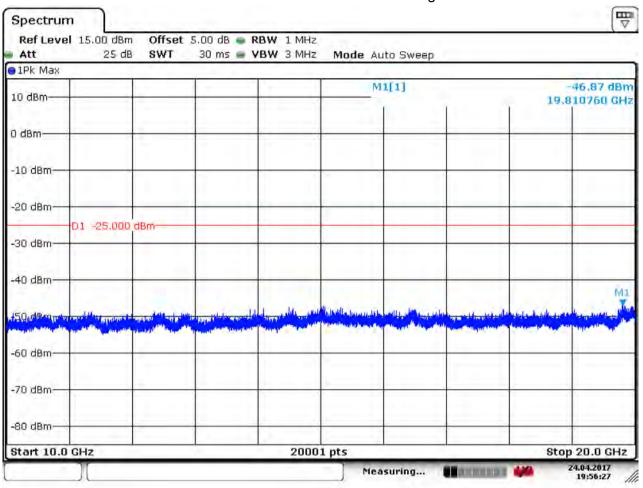


Date: 24.APR.2017 19:55:53



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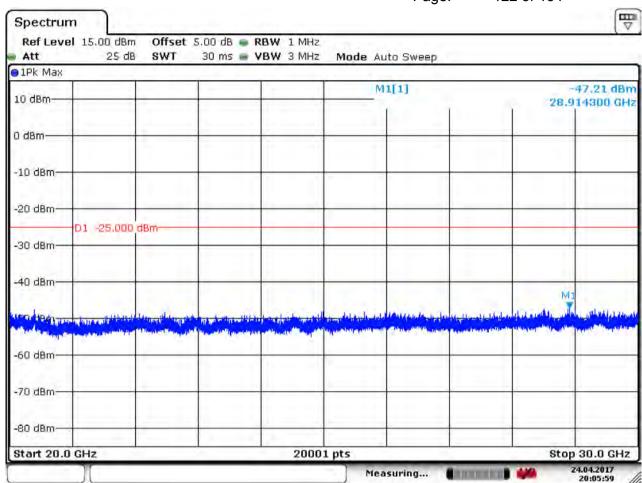


Date: 24.APR.2017 19:56:27



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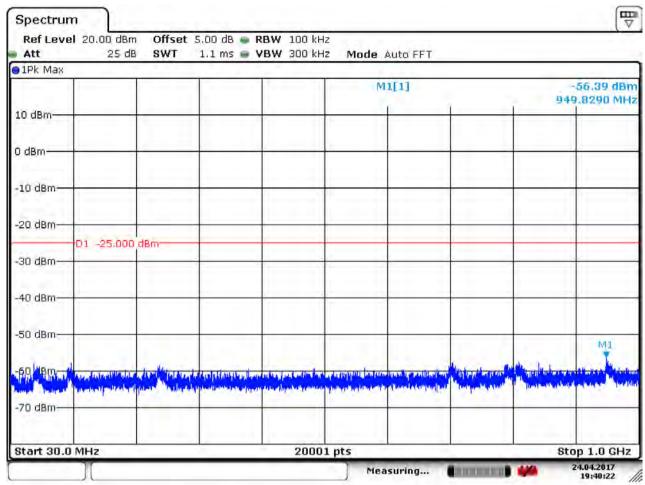
Date: 24.APR.2017 20:05:59



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6.1.1.4.2 Test Channel = MCH

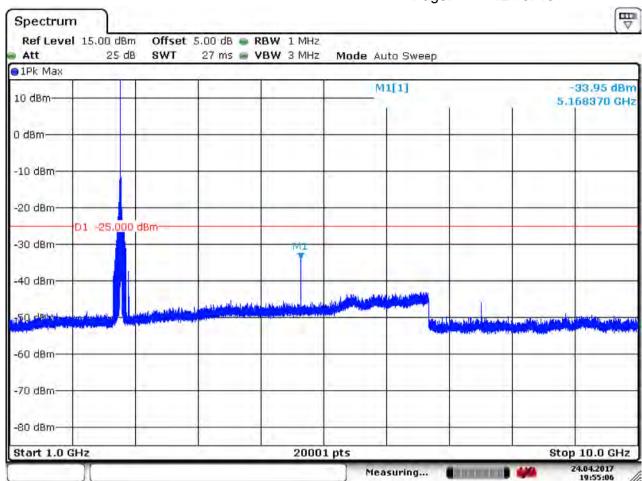


Date: 24.APR.2017 19:40:23



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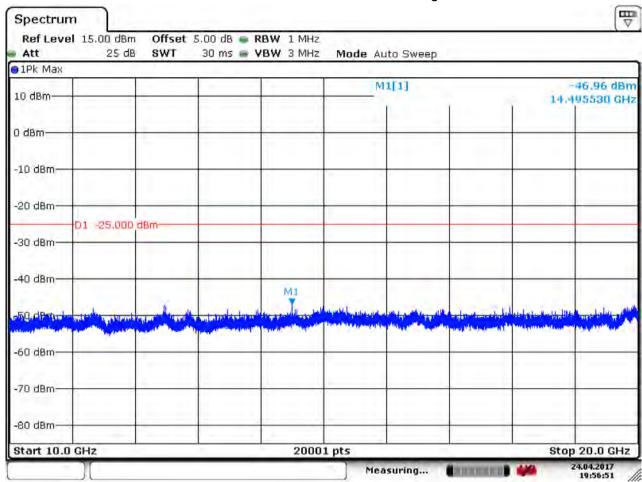


Date: 24.APR.2017 19:55:06



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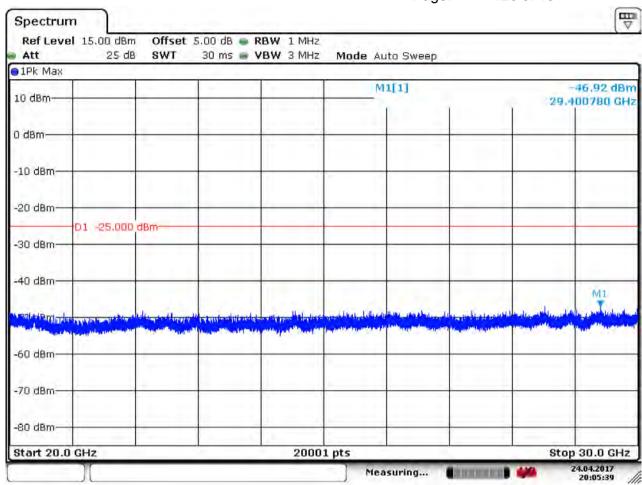


Date: 24.APR.2017 19:56:52



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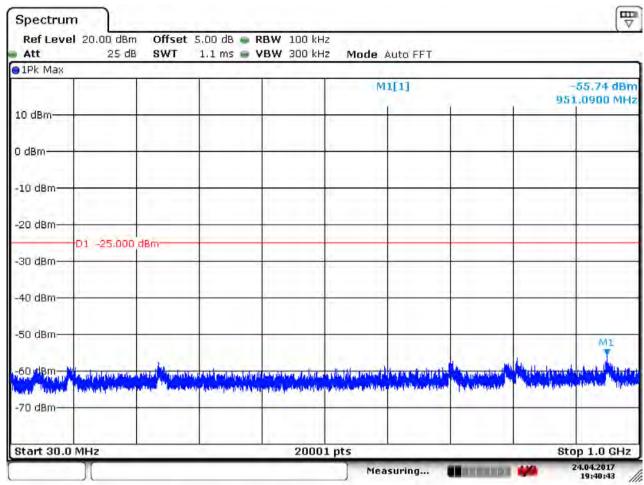
Date: 24.APR.2017 20:05:40



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6.1.1.4.3 Test Channel = HCH

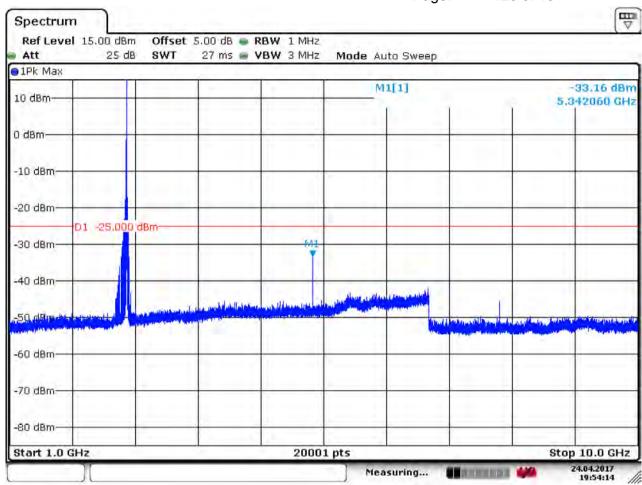


Date: 24.APR.2017 19:40:43



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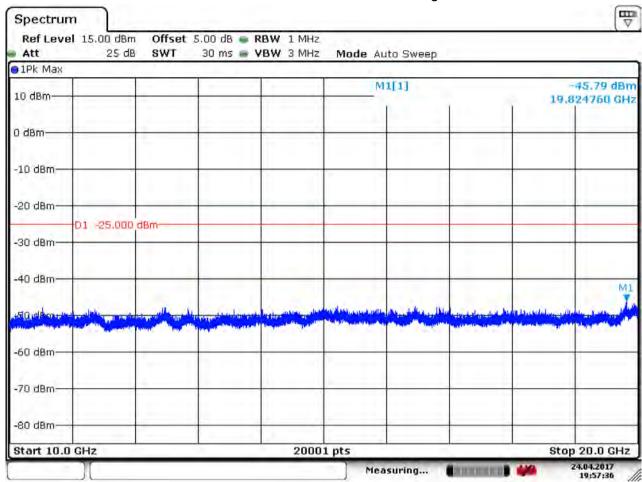


Date: 24.APR.2017 19:54:14



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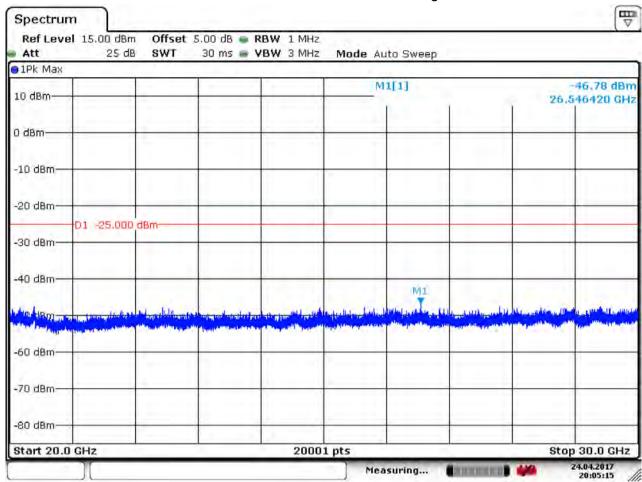


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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band41

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

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1265.000	-66.38	-25.00	-41.38	Vertical	
2608.000	-58.07	-25.00	-33.07	Vertical	
6412.500	-66.82	-25.00	-41.82	Vertical	
1199.000	-67.08	-25.00	-32.08	Horizontal	
3487.500	-69.85	-25.00	-44.85	Horizontal	
4267.500	-67.67	-25.00	-42.67	Horizontal	

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1617.000	-65.70	-25.00	-40.70	Vertical	
1991.000	-61.61	-25.00	-36.61	Vertical	
6120.000	-66.25	-25.00	-41.25	Vertical	
1463.000	-66.26	-25.00	-41.26	Horizontal	
1782.000	-63.77	-25.00	-38.77	Horizontal	
2384.000	-59.04	-25.00	-34.04	Horizontal	

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1694.000	-64.53	-25.00	-39.53	Vertical	
6900.000	-65.80	-25.00	-40.80	Vertical	
9045.000	-64.79	-25.00	-39.79	Vertical	
1529.000	-66.13	-25.00	-41.13	Horizontal	
3292.500	-69.70	-25.00	-44.70	Horizontal	
4170.000	-67.98	-25.00	-42.98	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	-3.03	-0.00121	PASS
		LCH	TN	VN	2.46	0.00098	PASS
				VH	-5.73	-0.00229	PASS
				VL	1.44	0.00056	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.94	-0.00113	PASS
				VH	2.33	0.00090	PASS
		НСН	TN	VL	-6.26	-0.00234	PASS
				VN	-5.13	-0.00191	PASS
LTEband41				VH	-2.74	-0.00102	PASS
L I Ebanu4 i	LTE/TM2 20MHz	LCH	TN	VL	-7.08	-0.00283	PASS
				VN	-2.35	-0.00094	PASS
				VH	-5.12	-0.00204	PASS
			TN	VL	2.53	0.00098	PASS
		MCH		VN	-2.82	-0.00109	PASS
				VH	1.39	0.00054	PASS
		НСН	TN	VL	-3.04	-0.00113	PASS
				VN	-6.32	-0.00236	PASS
				VH	3.34	0.00125	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	-3.13	-0.00125	PASS
				-20	2.47	0.00099	PASS
				-10	1.66	0.00066	PASS
				0	-4.27	-0.00170	PASS
		LCH	VN	10	2.23	0.00089	PASS
				20	4.95	0.00198	PASS
				30	-0.72	-0.00029	PASS
				40	-4.16	-0.00166	PASS
				50	-5.90	-0.00235	PASS
	LTE/TM1 20MHz	МСН		-30	3.70	0.00143	PASS
			VN	-20	1.69	0.00065	PASS
				-10	-4.31	-0.00166	PASS
				0	-3.15	-0.00121	PASS
LTEband41				10	0.63	0.00024	PASS
				20	6.31	0.00243	PASS
				30	-5.85	-0.00226	PASS
				40	-4.42	-0.00170	PASS
				50	-5.16	-0.00199	PASS
		нсн		-30	2.28	0.00085	PASS
				-20	-4.21	-0.00157	PASS
				-10	-3.62	-0.00135	PASS
				0	1.87	0.00070	PASS
			VN	10	3.37	0.00126	PASS
			-	20	2.22	0.00083	PASS
				30	3.91	0.00146	PASS
				40	-1.75	-0.00065	PASS
				50	-5.19	-0.00194	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-7.71	-0.00308	PASS
				-20	-3.85	-0.00154	PASS
				-10	-7.50	-0.00299	PASS
				0	-5.58	-0.00223	PASS
		LCH	VN	10	-4.09	-0.00163	PASS
				20	-489	-0.19513	PASS
				30	-5.70	-0.00227	PASS
				40	-4.69	-0.00187	PASS
				50	-6.85	-0.00273	PASS
	LTE/TM2 20MHz			-30	-2.39	-0.00092	PASS
		МСН	VN	-20	1.73	0.00067	PASS
				-10	2.64	0.00102	PASS
				0	3.08	0.00119	PASS
LTEband41				10	-0.35	-0.00013	PASS
				20	-0.14	-0.00005	PASS
				30	-4.65	-0.00179	PASS
				40	-6.60	-0.00255	PASS
				50	-1.60	-0.00062	PASS
			VN	-30	1.51	0.00056	PASS
				-20	-4.45	-0.00166	PASS
				-10	-7.87	-0.00294	PASS
		НСН		0	0.21	0.00008	PASS
				10	-6.61	-0.00247	PASS
				20	-2.27	-0.00085	PASS
				30	-8.13	-0.00303	PASS
				40	-3.07	-0.00115	PASS
				50	-6.42	-0.00240	PASS

The End