



Appendix B

Test Data for SZEM170300153901



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1 Effective (Isotropic) Radiated Power Output Data

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	5M	LCH	RB1#0	22.66	24.26	33.00	PASS
				RB1#13	23.00	24.60	33.00	PASS
				RB1#24	22.87	24.47	33.00	PASS
				RB12#0	21.73	23.33	33.00	PASS
				RB12#6	21.77	23.37	33.00	PASS
				RB12#13	21.76	23.36	33.00	PASS
				RB25#0	21.75	23.35	33.00	PASS
			MCH	RB1#0	22.57	24.17	33.00	PASS
				RB1#13	22.93	24.53	33.00	PASS
				RB1#24	22.58	24.18	33.00	PASS
				RB12#0	21.77	23.37	33.00	PASS
				RB12#6	21.78	23.38	33.00	PASS
				RB12#13	21.68	23.28	33.00	PASS
				RB25#0	21.71	23.31	33.00	PASS
			HCH	RB1#0	22.48	24.08	33.00	PASS
				RB1#13	22.73	24.33	33.00	PASS
				RB1#24	22.38	23.98	33.00	PASS
				RB12#0	21.71	23.31	33.00	PASS
				RB12#6	21.64	23.24	33.00	PASS
				RB12#13	21.64	23.24	33.00	PASS
				RB25#0	21.73	23.33	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
BAND7	LTE/TM2	5M	LCH	RB1#0	21.44	23.04	33.00	PASS
				RB1#13	21.92	23.52	33.00	PASS
				RB1#24	21.94	23.54	33.00	PASS
				RB12#0	20.65	22.25	33.00	PASS
				RB12#6	20.80	22.40	33.00	PASS
				RB12#13	20.89	22.49	33.00	PASS
				RB25#0	20.96	22.56	33.00	PASS
			MCH	RB1#0	21.98	23.58	33.00	PASS
				RB1#13	21.60	23.20	33.00	PASS
				RB1#24	21.24	22.84	33.00	PASS
				RB12#0	20.62	22.22	33.00	PASS
				RB12#6	20.81	22.41	33.00	PASS
				RB12#13	20.69	22.29	33.00	PASS
				RB25#0	20.74	22.34	33.00	PASS
			HCH	RB1#0	21.71	23.31	33.00	PASS
				RB1#13	21.21	22.81	33.00	PASS
				RB1#24	20.93	22.53	33.00	PASS
				RB12#0	20.63	22.23	33.00	PASS
				RB12#6	20.83	22.43	33.00	PASS
				RB12#13	20.76	22.36	33.00	PASS
				RB25#0	20.67	22.27	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
BAND7	LTE/TM1	10M	LCH	RB1#0	22.47	24.07	33.00	PASS
				RB1#25	22.87	24.47	33.00	PASS
				RB1#49	22.70	24.30	33.00	PASS
				RB25#0	21.79	23.39	33.00	PASS
				RB25#13	21.85	23.45	33.00	PASS
				RB25#25	21.79	23.39	33.00	PASS
				RB50#0	21.76	23.36	33.00	PASS
			MCH	RB1#0	22.42	24.02	33.00	PASS
				RB1#25	22.84	24.44	33.00	PASS
				RB1#49	22.40	24.00	33.00	PASS
				RB25#0	21.74	23.34	33.00	PASS
				RB25#13	21.73	23.33	33.00	PASS
				RB25#25	21.75	23.35	33.00	PASS
				RB50#0	21.84	23.44	33.00	PASS
			HCH	RB1#0	22.41	24.01	33.00	PASS
				RB1#25	22.78	24.38	33.00	PASS
				RB1#49	22.65	24.25	33.00	PASS
				RB25#0	21.77	23.37	33.00	PASS
				RB25#13	21.82	23.42	33.00	PASS
				RB25#25	21.74	23.34	33.00	PASS
				RB50#0	21.83	23.43	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
BAND7	LTE/TM2	10M	LCH	RB1#0	21.08	22.68	33.00	PASS
				RB1#25	21.93	23.53	33.00	PASS
				RB1#49	21.99	23.59	33.00	PASS
				RB25#0	20.67	22.27	33.00	PASS
				RB25#13	20.88	22.48	33.00	PASS
				RB25#25	20.73	22.33	33.00	PASS
				RB50#0	20.92	22.52	33.00	PASS
			MCH	RB1#0	21.60	23.20	33.00	PASS
				RB1#25	22.00	23.60	33.00	PASS
				RB1#49	21.19	22.79	33.00	PASS
				RB25#0	20.55	22.15	33.00	PASS
				RB25#13	20.73	22.33	33.00	PASS
				RB25#25	20.78	22.38	33.00	PASS
				RB50#0	20.80	22.40	33.00	PASS
			HCH	RB1#0	21.48	23.08	33.00	PASS
				RB1#25	21.94	23.54	33.00	PASS
				RB1#49	21.17	22.77	33.00	PASS
				RB25#0	20.52	22.12	33.00	PASS
				RB25#13	20.66	22.26	33.00	PASS
				RB25#25	20.64	22.24	33.00	PASS
				RB50#0	20.76	22.36	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
BAND7	LTE/TM1	15M	LCH	RB1#0	22.41	24.01	33.00	PASS
				RB1#38	22.68	24.28	33.00	PASS
				RB1#74	22.65	24.25	33.00	PASS
				RB36#0	21.69	23.29	33.00	PASS
				RB36#18	21.77	23.37	33.00	PASS
				RB36#39	21.69	23.29	33.00	PASS
				RB75#0	21.71	23.31	33.00	PASS
			MCH	RB1#0	22.76	24.36	33.00	PASS
				RB1#38	22.77	24.37	33.00	PASS
				RB1#74	22.68	24.28	33.00	PASS
				RB36#0	21.68	23.28	33.00	PASS
				RB36#18	21.81	23.41	33.00	PASS
				RB36#39	21.74	23.34	33.00	PASS
				RB75#0	21.70	23.30	33.00	PASS
			HCH	RB1#0	22.58	24.18	33.00	PASS
				RB1#38	22.66	24.26	33.00	PASS
				RB1#74	22.60	24.20	33.00	PASS
				RB36#0	21.77	23.37	33.00	PASS
				RB36#18	21.77	23.37	33.00	PASS
				RB36#39	21.71	23.31	33.00	PASS
				RB75#0	21.71	23.31	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
BAND7	LTE/TM2	15M	LCH	RB1#0	21.26	22.86	33.00	PASS
				RB1#38	21.84	23.44	33.00	PASS
				RB1#74	22.00	23.60	33.00	PASS
				RB36#0	20.78	22.38	33.00	PASS
				RB36#18	20.81	22.41	33.00	PASS
				RB36#39	20.68	22.28	33.00	PASS
				RB75#0	20.81	22.41	33.00	PASS
			MCH	RB1#0	21.09	22.69	33.00	PASS
				RB1#38	21.18	22.78	33.00	PASS
				RB1#74	21.25	22.85	33.00	PASS
				RB36#0	20.53	22.13	33.00	PASS
				RB36#18	20.69	22.29	33.00	PASS
				RB36#39	20.72	22.32	33.00	PASS
				RB75#0	20.62	22.22	33.00	PASS
			HCH	RB1#0	21.40	23.00	33.00	PASS
				RB1#38	20.86	22.46	33.00	PASS
				RB1#74	21.14	22.74	33.00	PASS
				RB36#0	20.55	22.15	33.00	PASS
				RB36#18	20.73	22.33	33.00	PASS
				RB36#39	20.59	22.19	33.00	PASS
				RB75#0	20.62	22.22	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
BAND7	LTE/TM1	20M	LCH	RB1#0	22.28	23.88	33.00	PASS
				RB1#50	22.68	24.28	33.00	PASS
				RB1#99	22.71	24.31	33.00	PASS
				RB50#0	21.70	23.30	33.00	PASS
				RB50#25	21.71	23.31	33.00	PASS
				RB50#50	21.63	23.23	33.00	PASS
				RB100#0	21.67	23.27	33.00	PASS
			MCH	RB1#0	22.42	24.02	33.00	PASS
				RB1#50	22.85	24.45	33.00	PASS
				RB1#99	22.46	24.06	33.00	PASS
				RB50#0	21.64	23.24	33.00	PASS
				RB50#25	21.74	23.34	33.00	PASS
				RB50#50	21.73	23.33	33.00	PASS
				RB100#0	21.78	23.38	33.00	PASS
			HCH	RB1#0	22.23	23.83	33.00	PASS
				RB1#50	22.73	24.33	33.00	PASS
				RB1#99	22.47	24.07	33.00	PASS
				RB50#0	21.66	23.26	33.00	PASS
				RB50#25	21.72	23.32	33.00	PASS
				RB50#50	21.71	23.31	33.00	PASS
				RB100#0	21.72	23.32	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
BAND7	LTE/TM2	20M	LCH	RB1#0	20.96	22.56	33.00	PASS
				RB1#50	22.00	23.60	33.00	PASS
				RB1#99	21.68	23.28	33.00	PASS
				RB50#0	20.77	22.37	33.00	PASS
				RB50#25	20.62	22.22	33.00	PASS
				RB50#50	20.64	22.24	33.00	PASS
				RB100#0	20.60	22.20	33.00	PASS
			MCH	RB1#0	21.07	22.67	33.00	PASS
				RB1#50	21.41	23.01	33.00	PASS
				RB1#99	21.37	22.97	33.00	PASS
				RB50#0	20.77	22.37	33.00	PASS
				RB50#25	20.81	22.41	33.00	PASS
				RB50#50	20.74	22.34	33.00	PASS
				RB100#0	20.71	22.31	33.00	PASS
			HCH	RB1#0	20.86	22.46	33.00	PASS
				RB1#50	21.32	22.92	33.00	PASS
				RB1#99	20.71	22.31	33.00	PASS
				RB50#0	20.71	22.31	33.00	PASS
				RB50#25	20.59	22.19	33.00	PASS
				RB50#50	20.59	22.19	33.00	PASS
				RB100#0	20.66	22.26	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,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

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
Band 7	TM1/20M	LCH	4.32	13	PASS
		MCH	4.52	13	PASS
		HCH	4.46	13	PASS
	TM2/20M	LCH	5.36	13	PASS
		MCH	5.68	13	PASS
		HCH	5.45	13	PASS



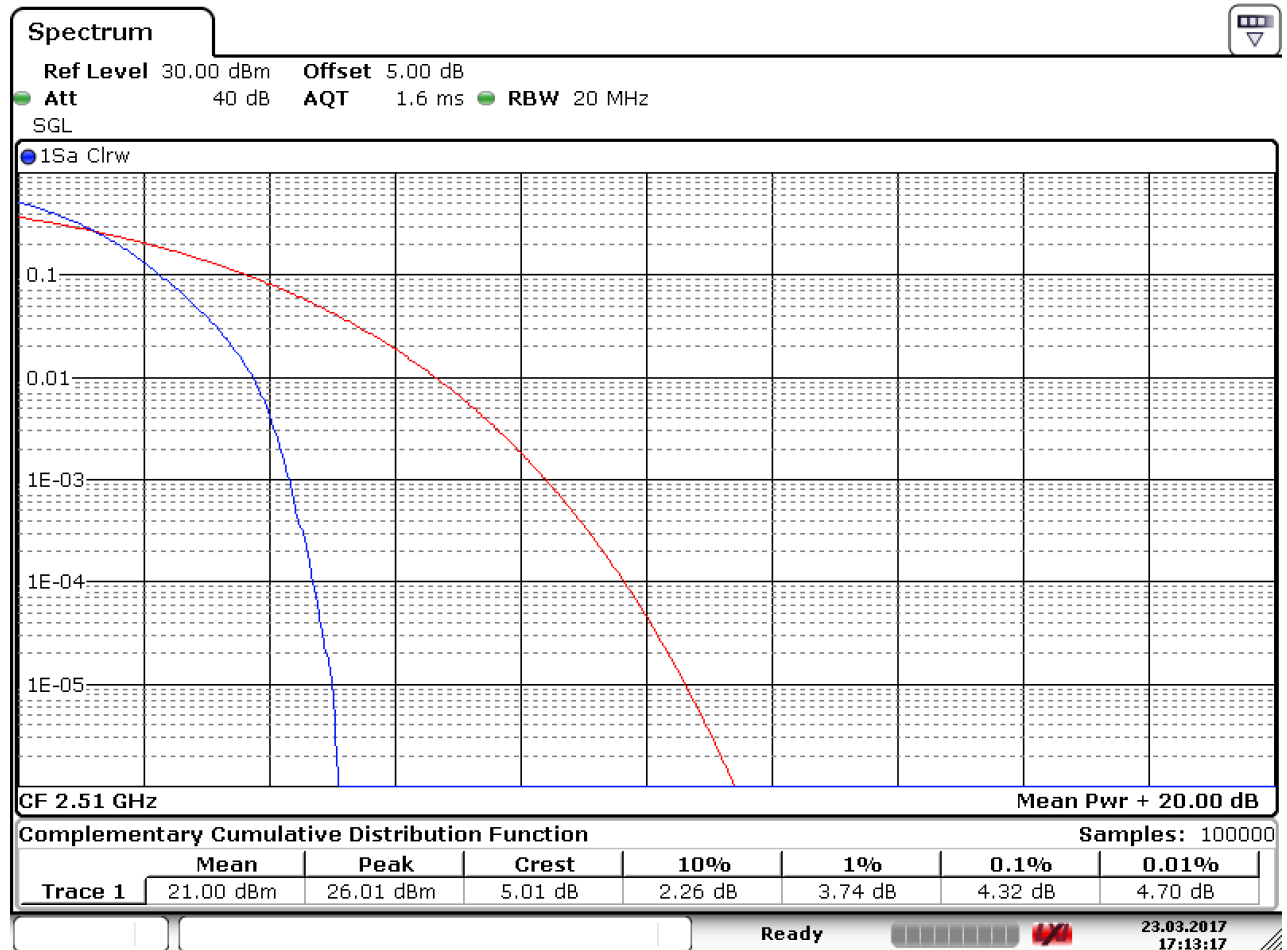
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

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

2.1.1.1.1 Test Channel = LCH



Date: 23.MAR.2017 17:13:17

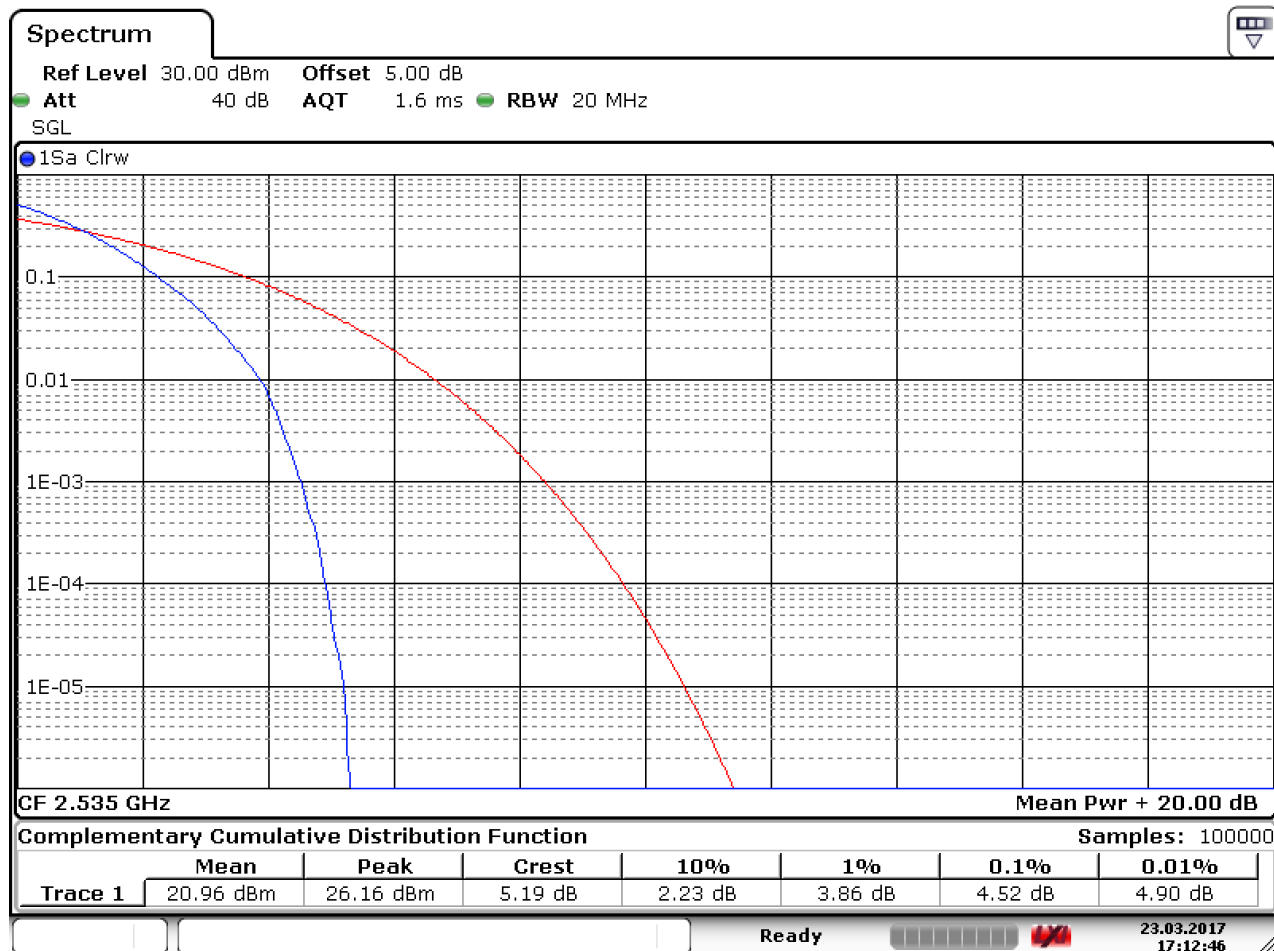


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2.1.1.1.2 Test Channel = MCH

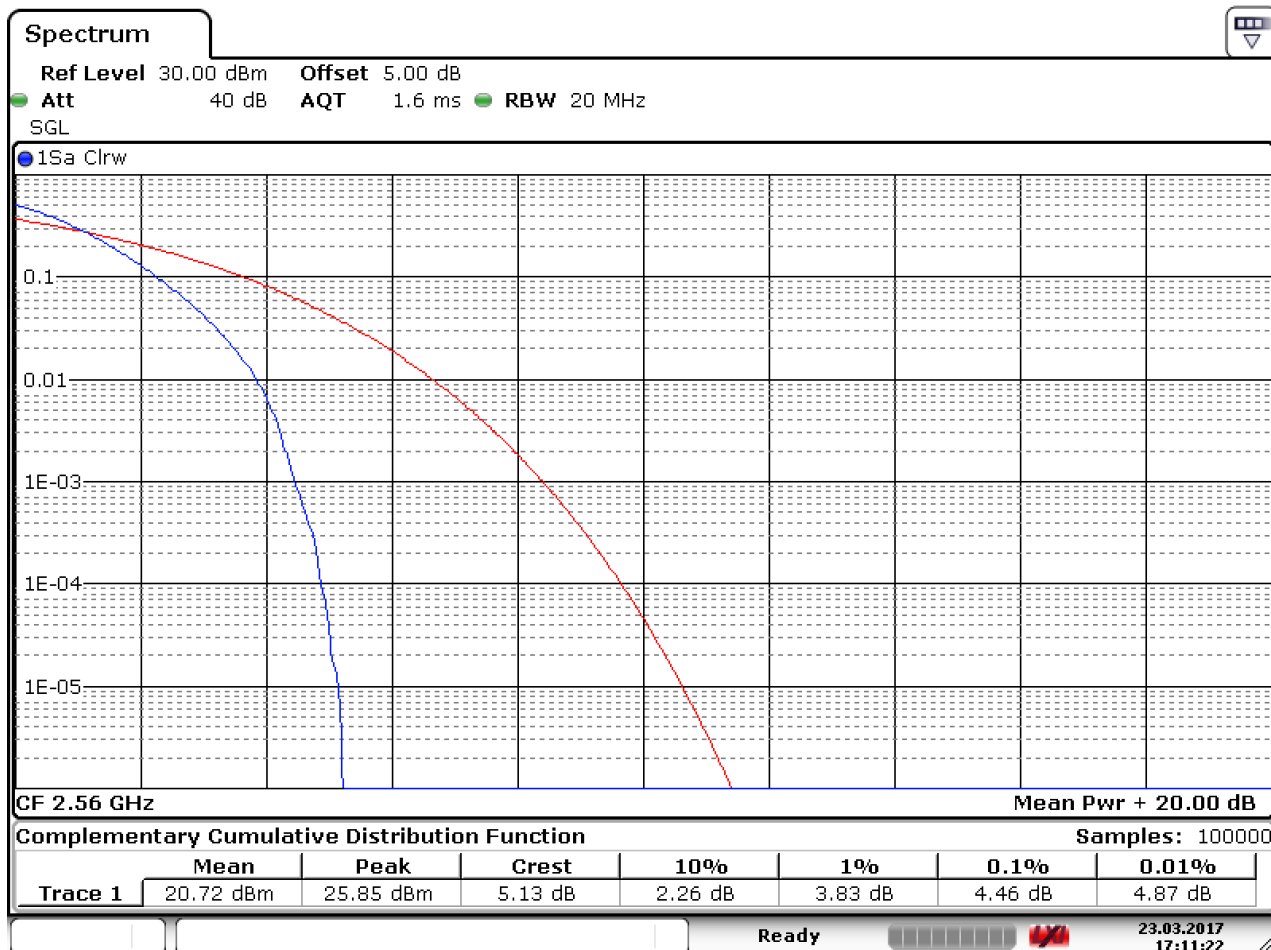


Date: 23.MAR.2017 17:12:47

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2.1.1.1.3 Test Channel = HCH

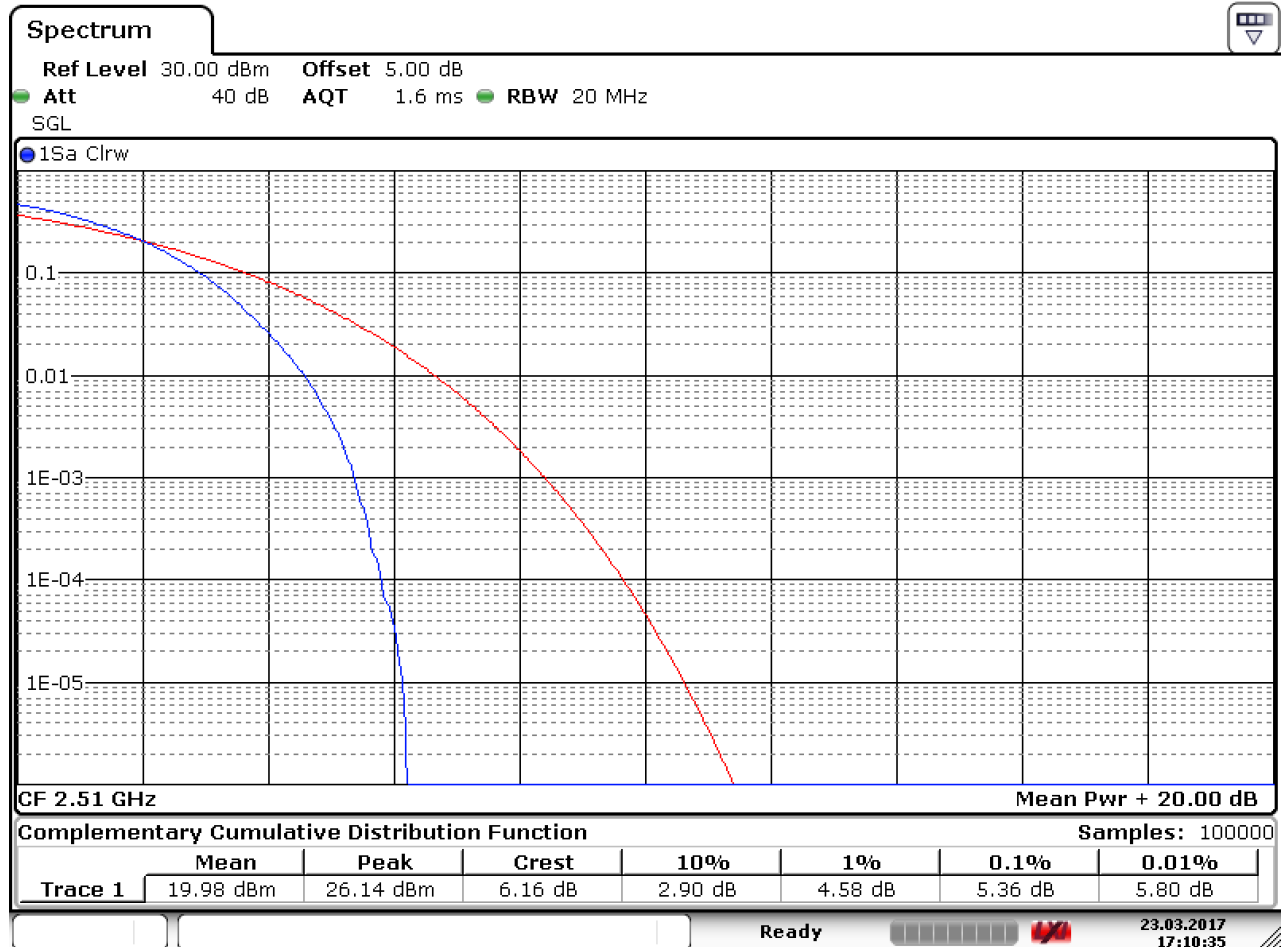


Date: 23.MAR.2017 17:11:22



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

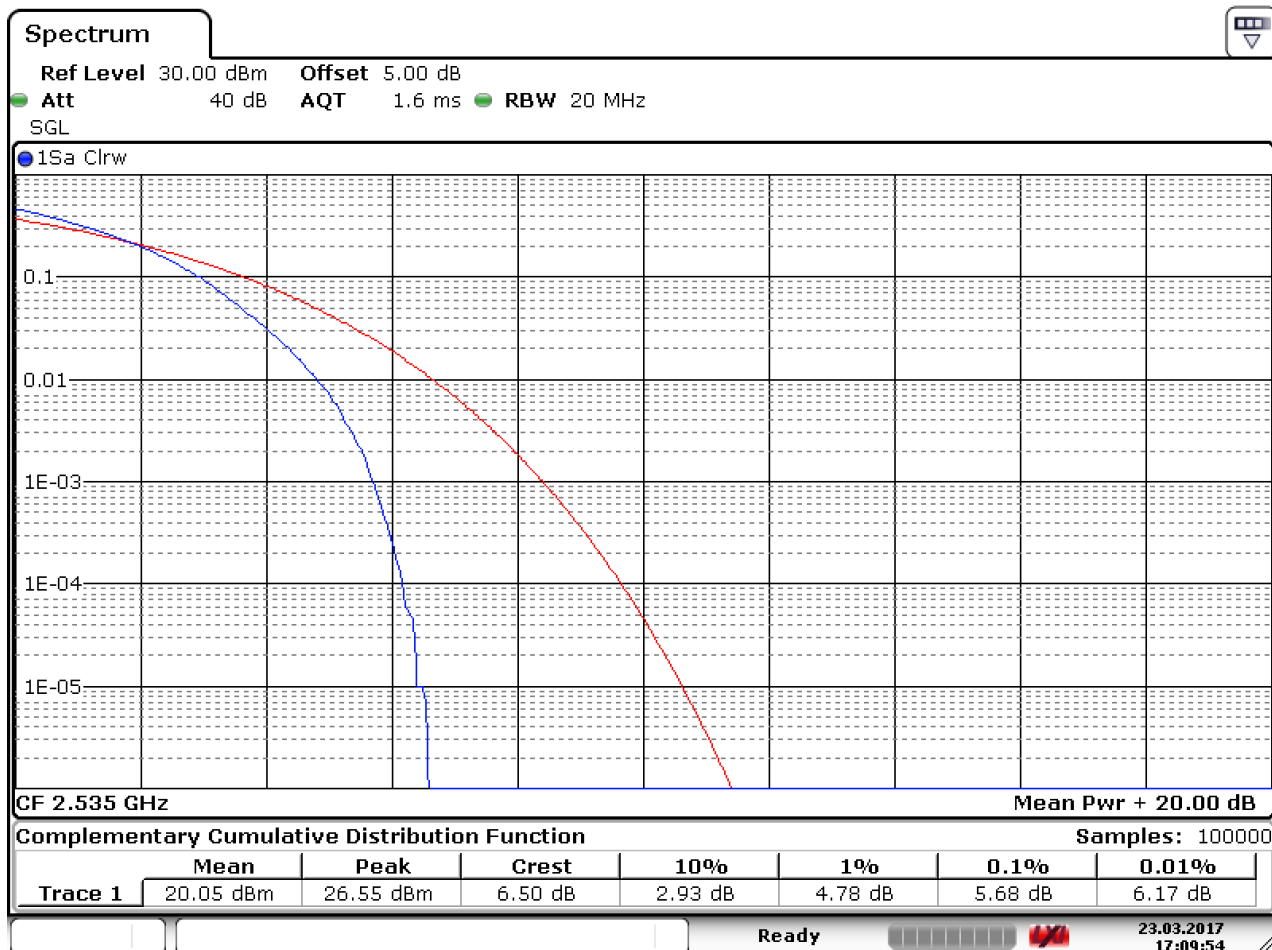
2.1.1.2.1 Test Channel = LCH



Date: 23.MAR.2017 17:10:35



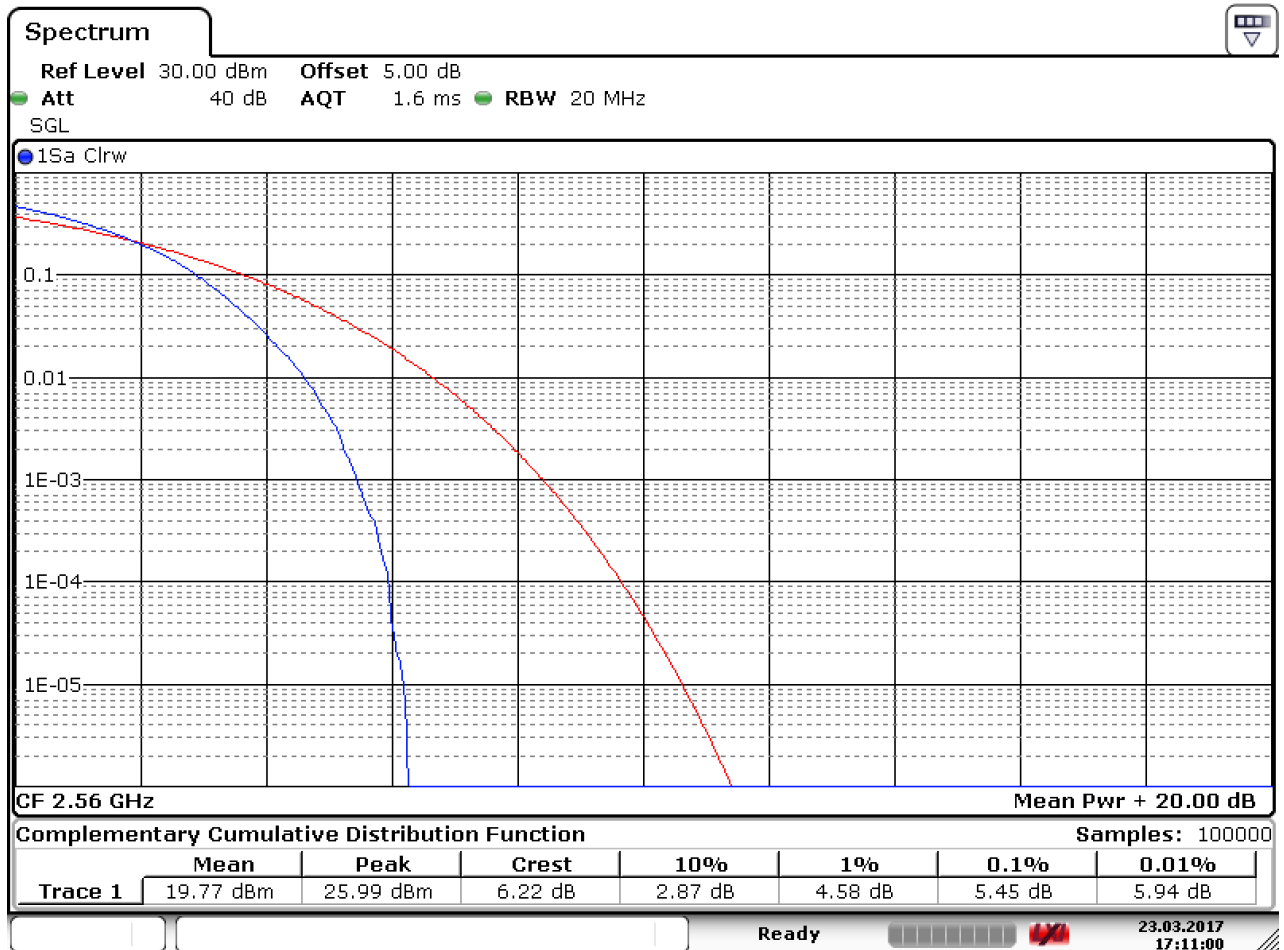
2.1.1.2.2 Test Channel = MCH



Date: 23.MAR.2017 17:09:54



2.1.1.2.3 Test Channel = HCH



Date: 23.MAR.2017 17:11:01

3 Modulation Characteristics

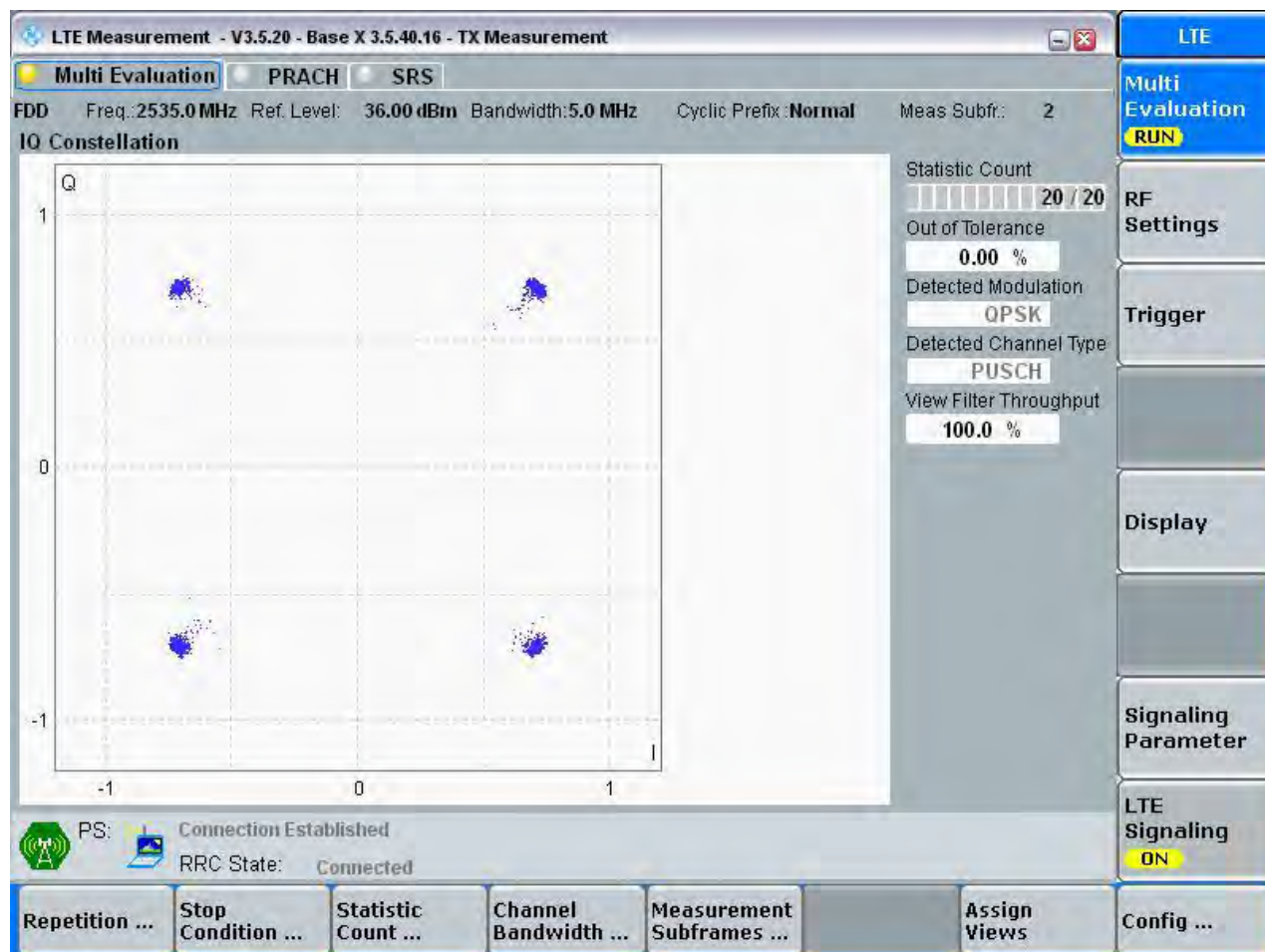
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

3.1.1.1 Test Mode = LTE /TM1 5MHz

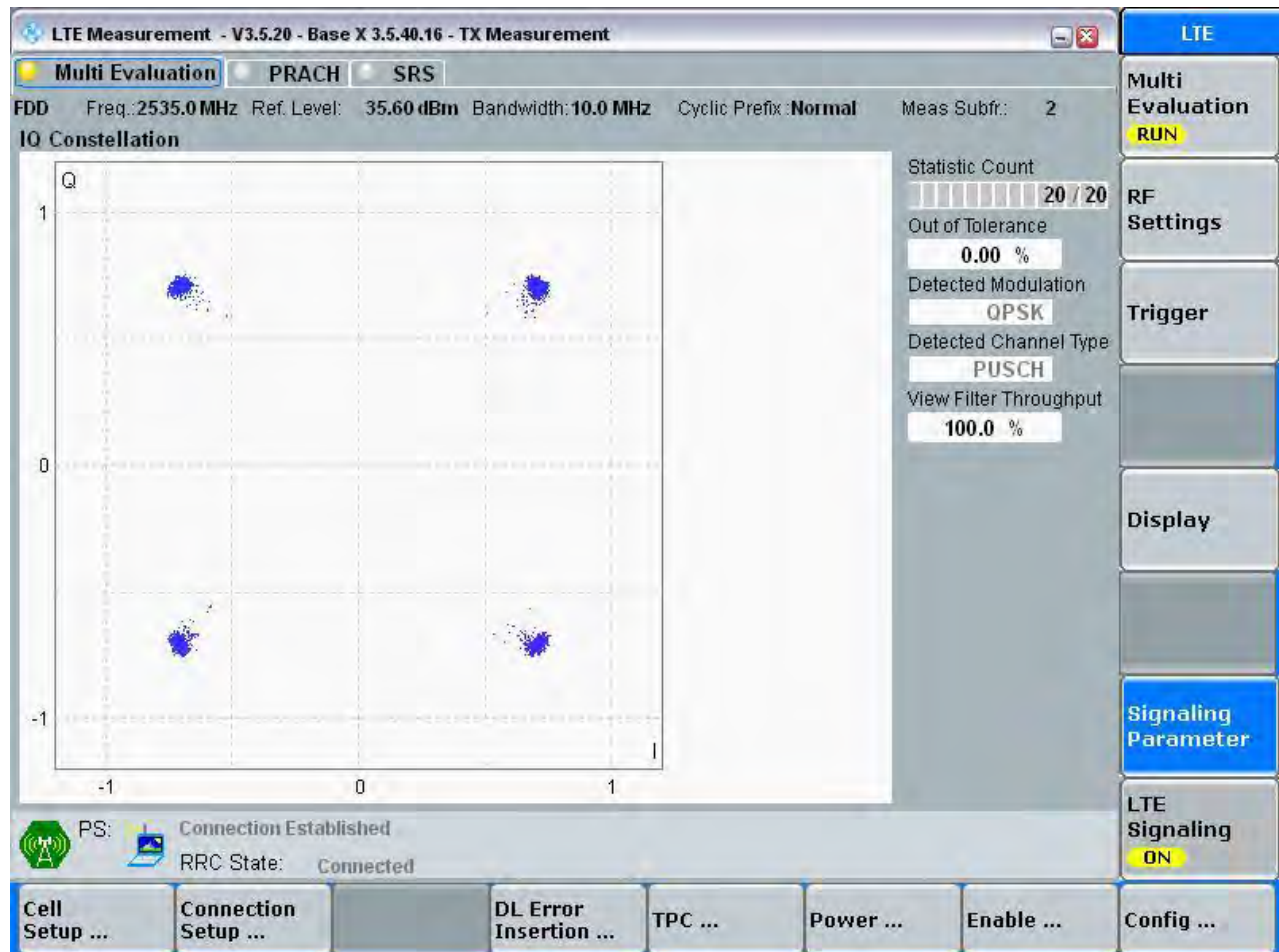
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

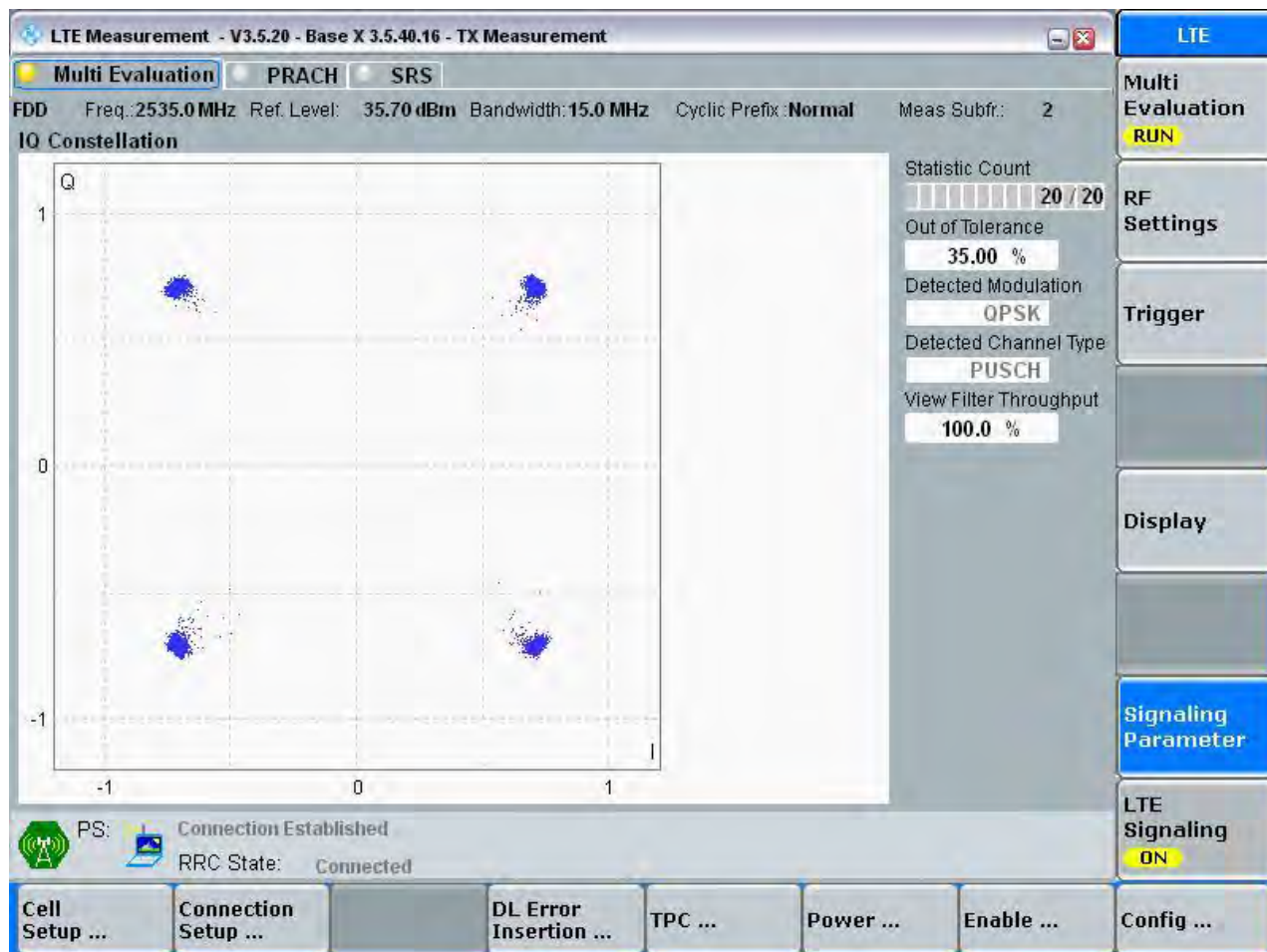
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 15MHz

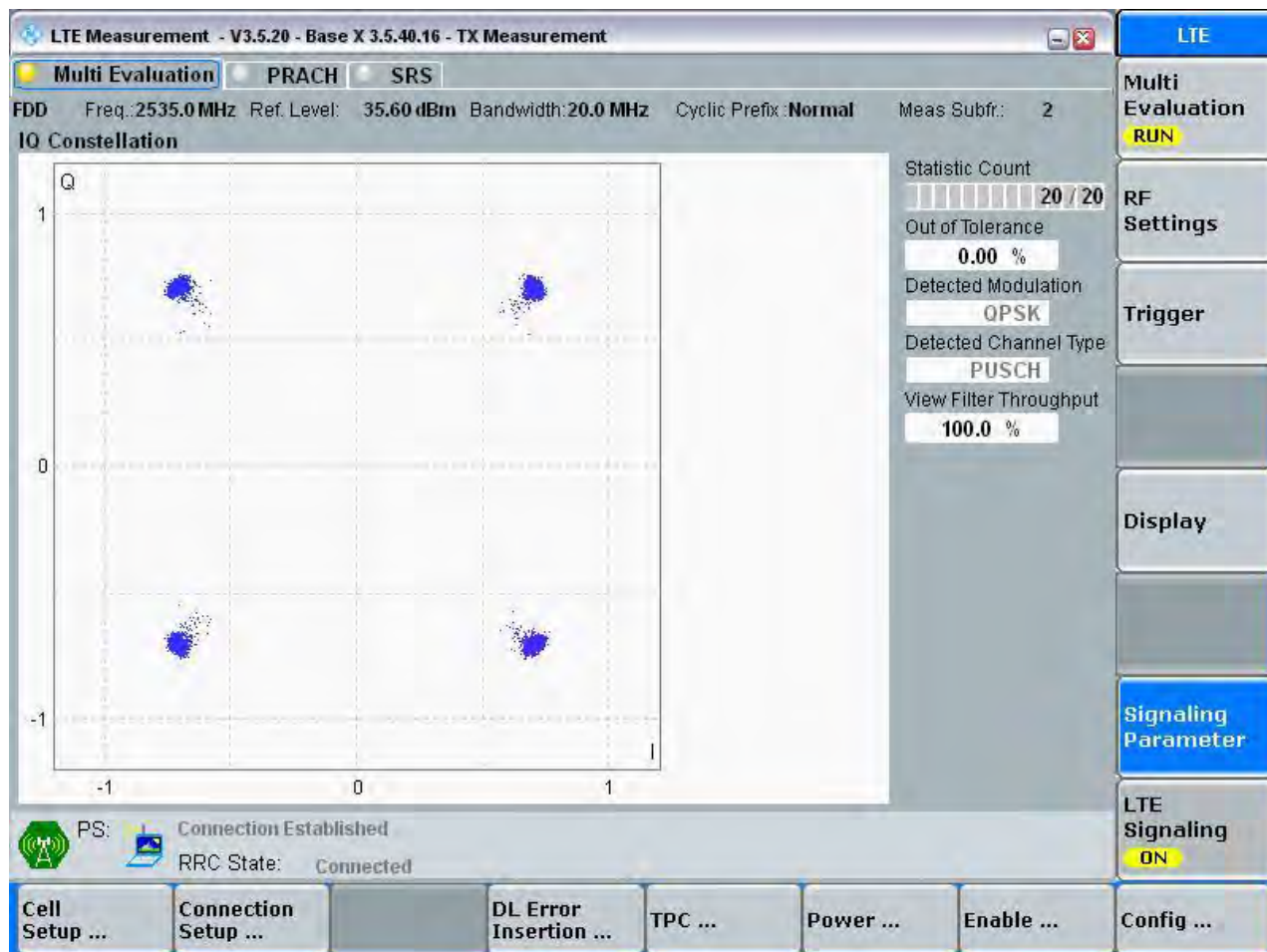
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 20MHz

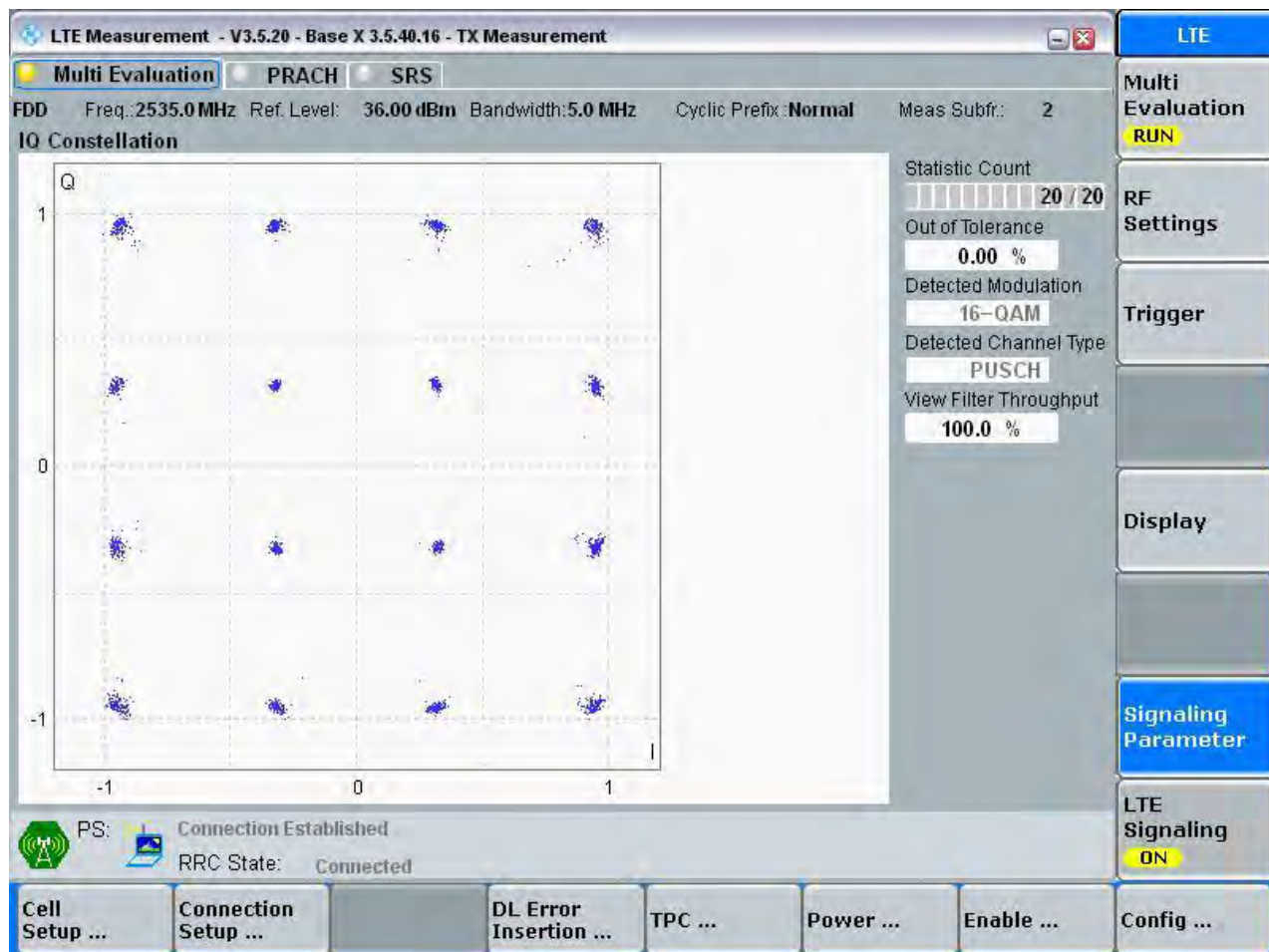
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 5MHz

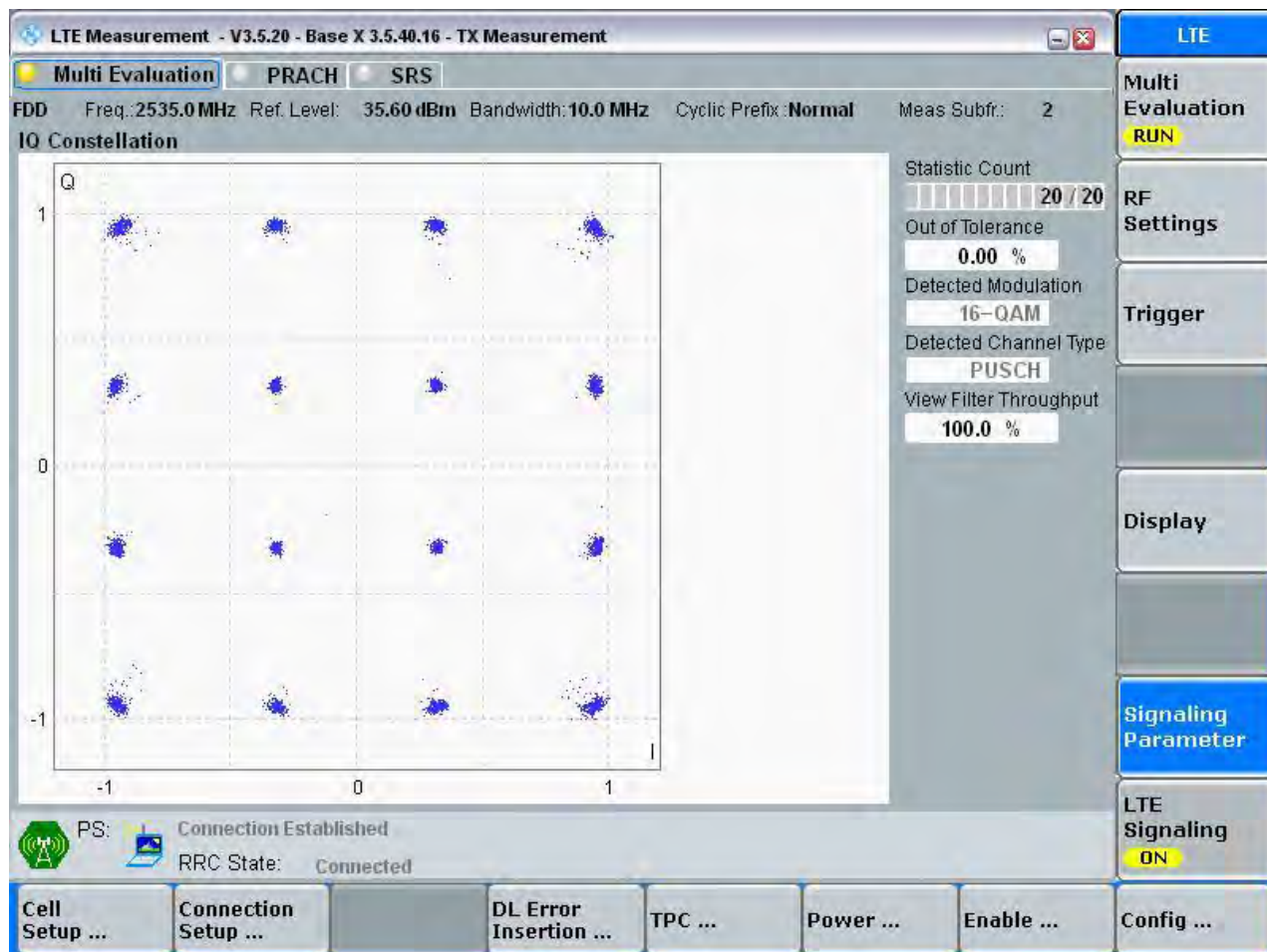
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM2 10MHz

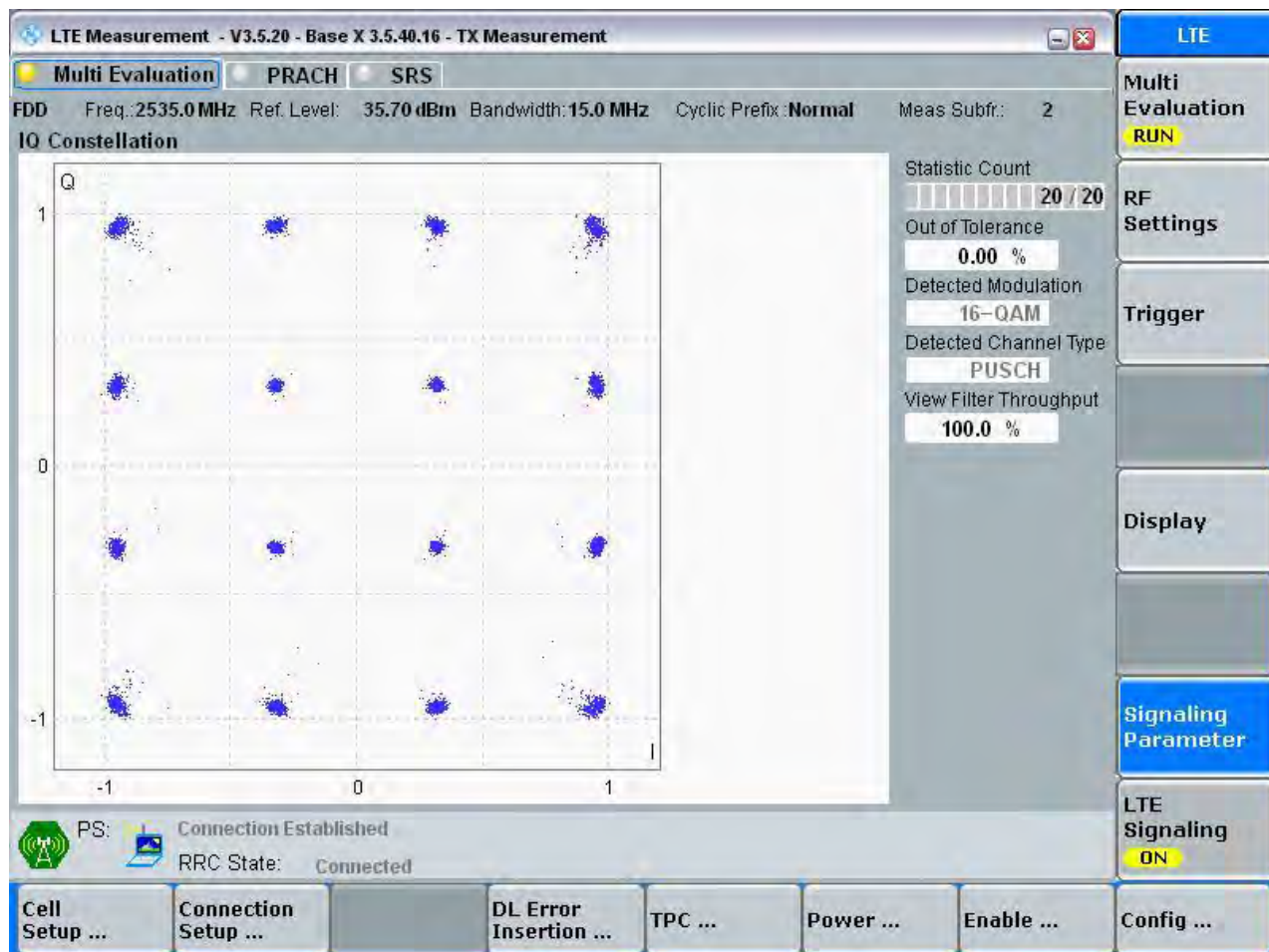
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 15MHz

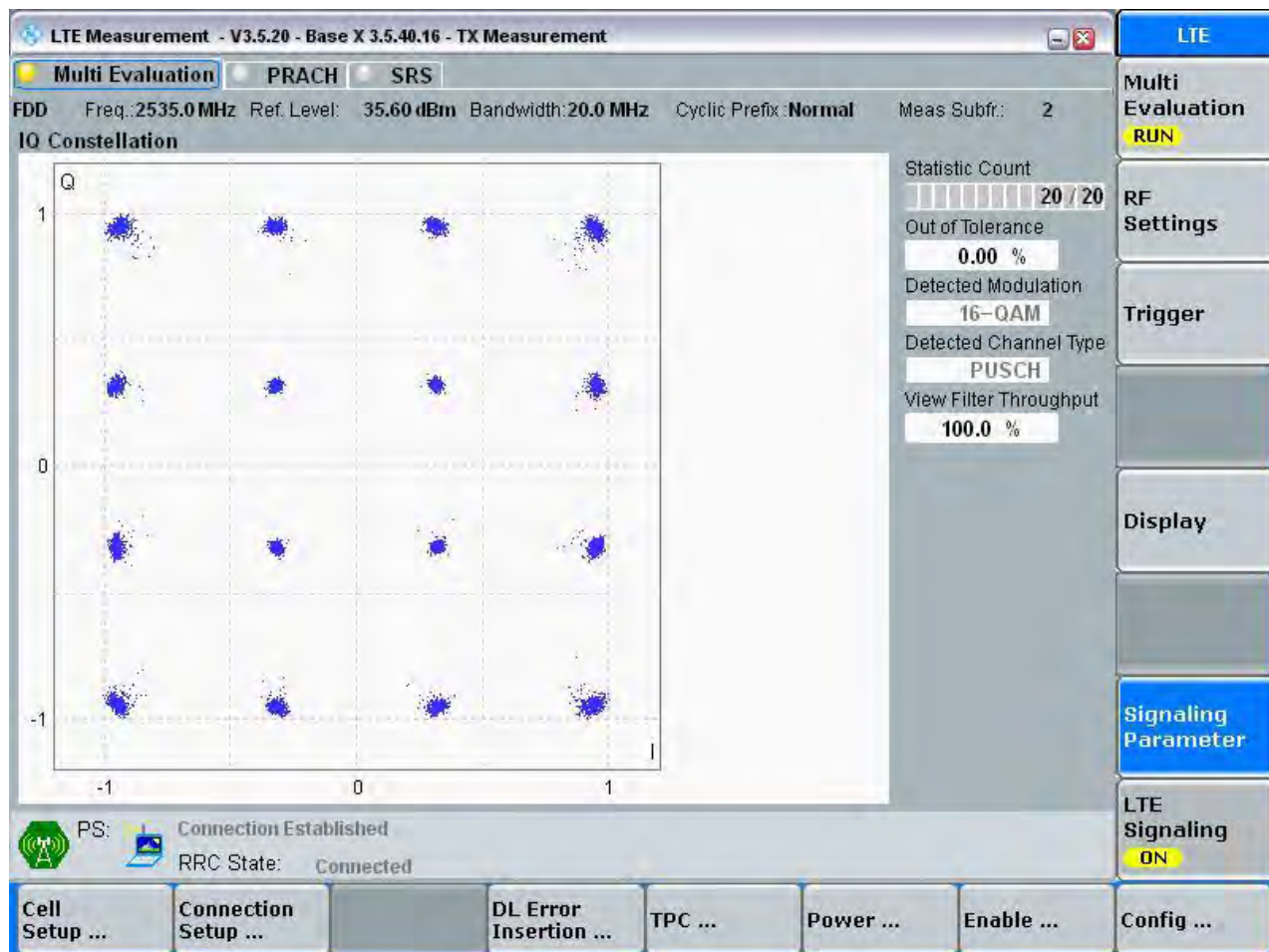
3.1.1.7.1 Test Channel = MCH





3.1.1.8 Test Mode = LTE /TM2 20MHz

3.1.1.8.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 7	TM1/ 5MHz	LCH	4.49	4.96	PASS
		MCH	4.50	4.95	PASS
		HCH	4.47	4.93	PASS
	TM2/ 5MHz	LCH	4.49	4.97	PASS
		MCH	4.48	4.91	PASS
		HCH	4.48	4.96	PASS
	TM1/10MHz	LCH	8.93	9.75	PASS
		MCH	8.95	9.81	PASS
		HCH	8.93	9.75	PASS
	TM2/ 10MHz	LCH	8.93	9.73	PASS
		MCH	8.93	9.63	PASS
		HCH	8.93	9.73	PASS
	TM1/ 15MHz	LCH	13.40	14.84	PASS
		MCH	13.52	14.93	PASS
		HCH	13.49	14.87	PASS
	TM2/ 15MHz	LCH	13.46	14.78	PASS
		MCH	13.49	14.78	PASS
		HCH	13.49	14.87	PASS
	TM1/ 20MHz	LCH	17.86	19.26	PASS
		MCH	17.90	19.30	PASS
		HCH	17.90	19.58	PASS
	TM2/ 20MHz	LCH	17.86	19.46	PASS
		MCH	17.90	19.50	PASS
		HCH	17.86	19.38	PASS

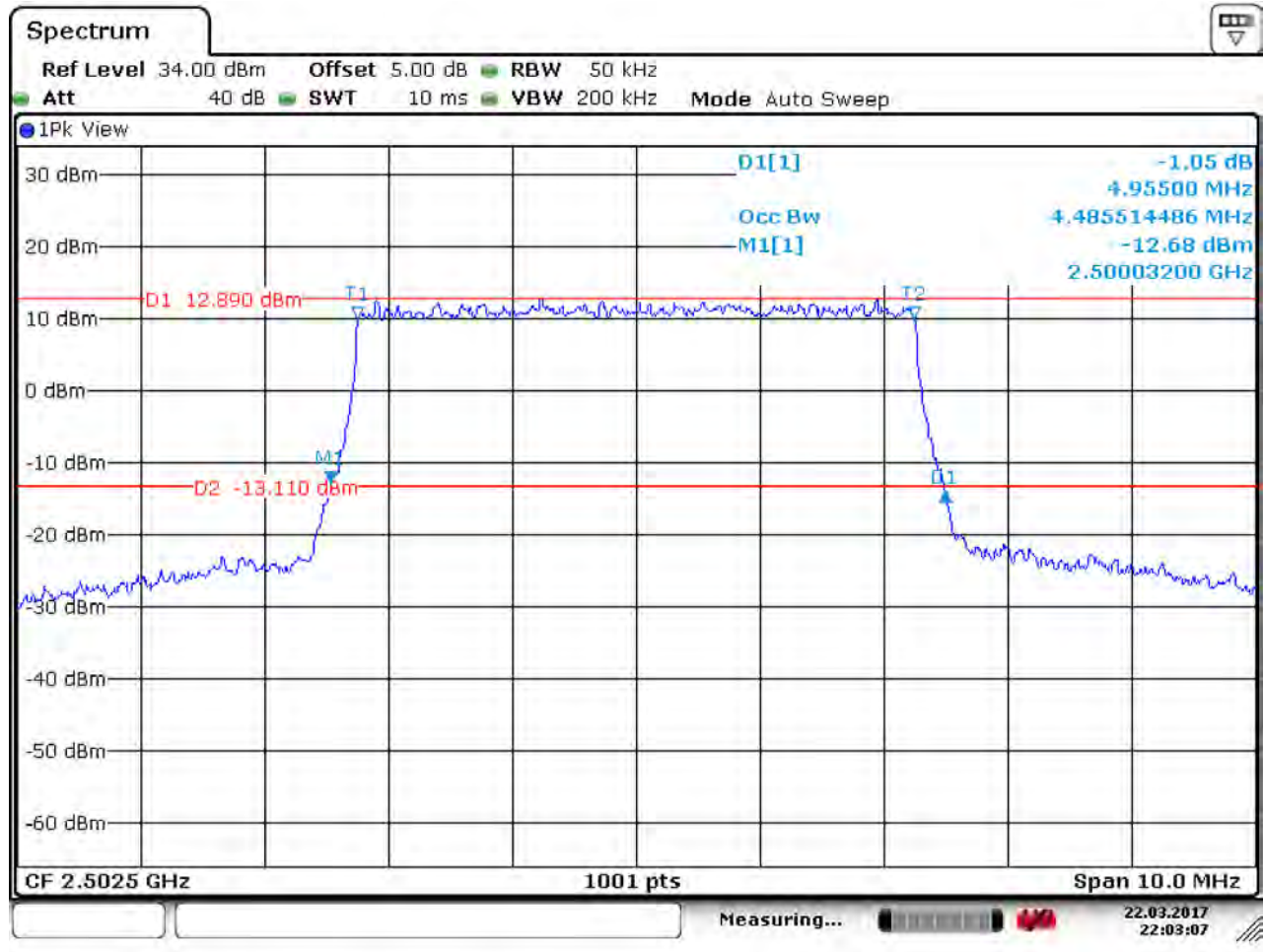


4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



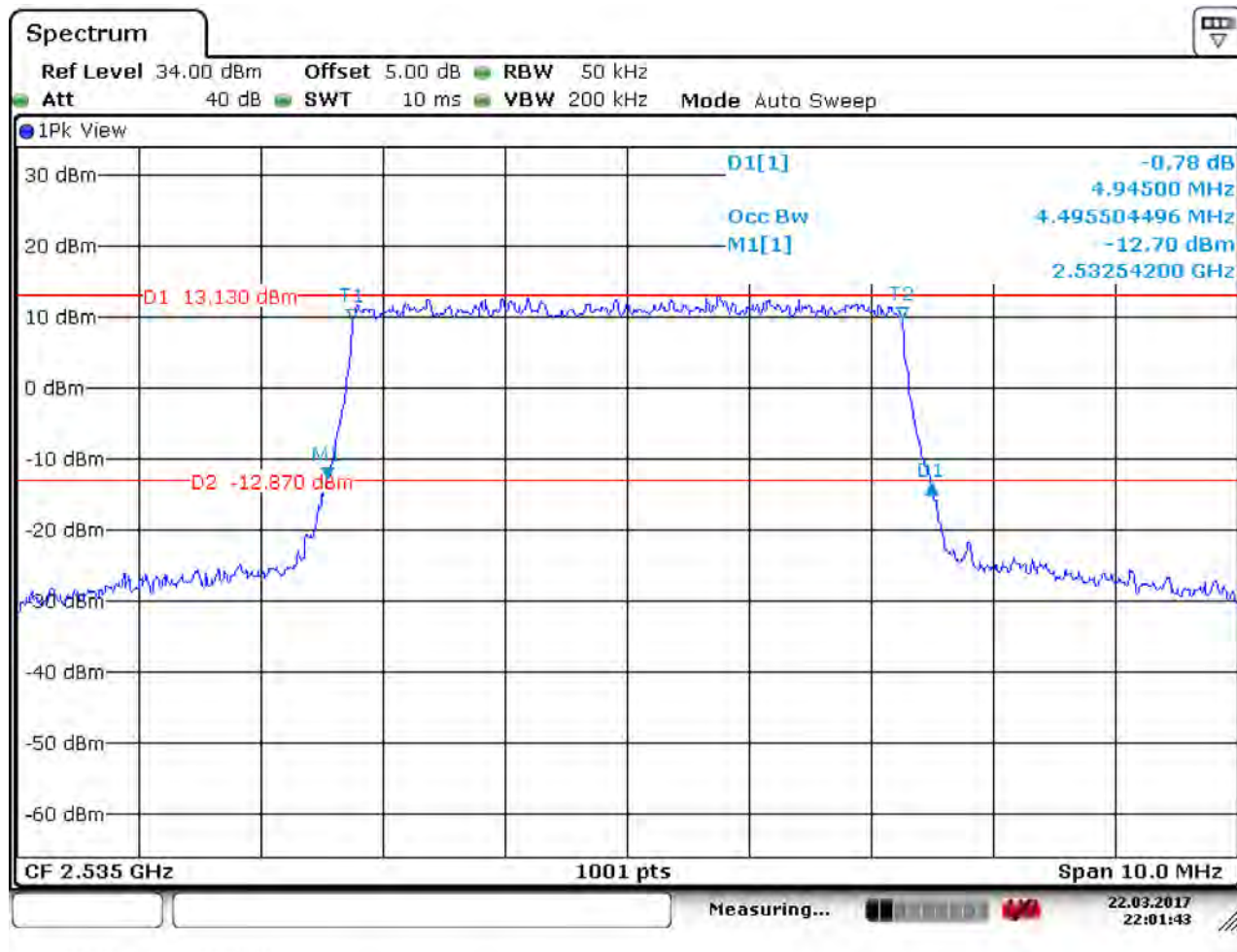
Date: 22.MAR.2017 22:03:08



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4.1.1.1.2 Test Channel = MCH

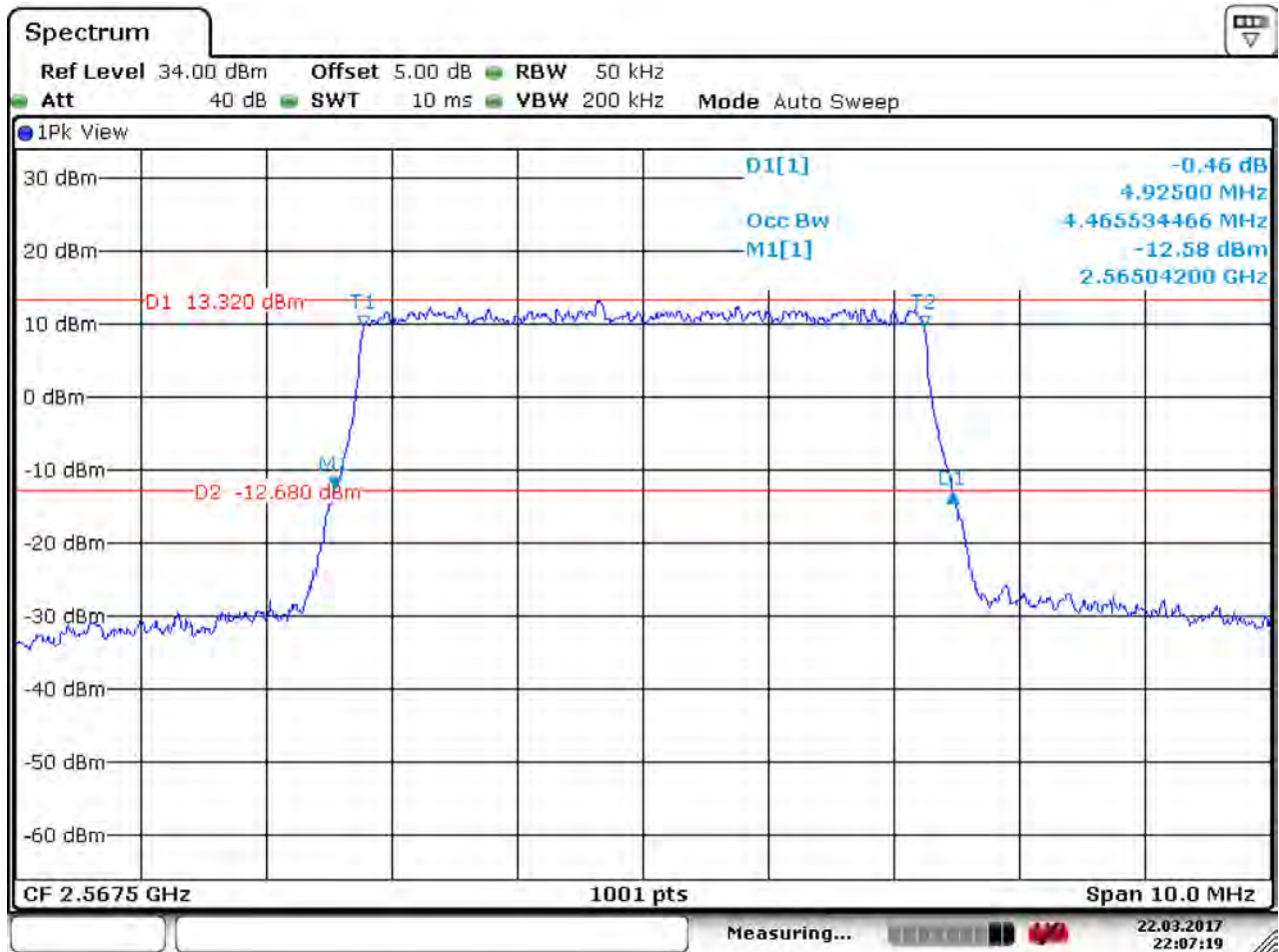


Date: 22.MAR.2017 22:01:43

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4.1.1.1.3 Test Channel = HCH

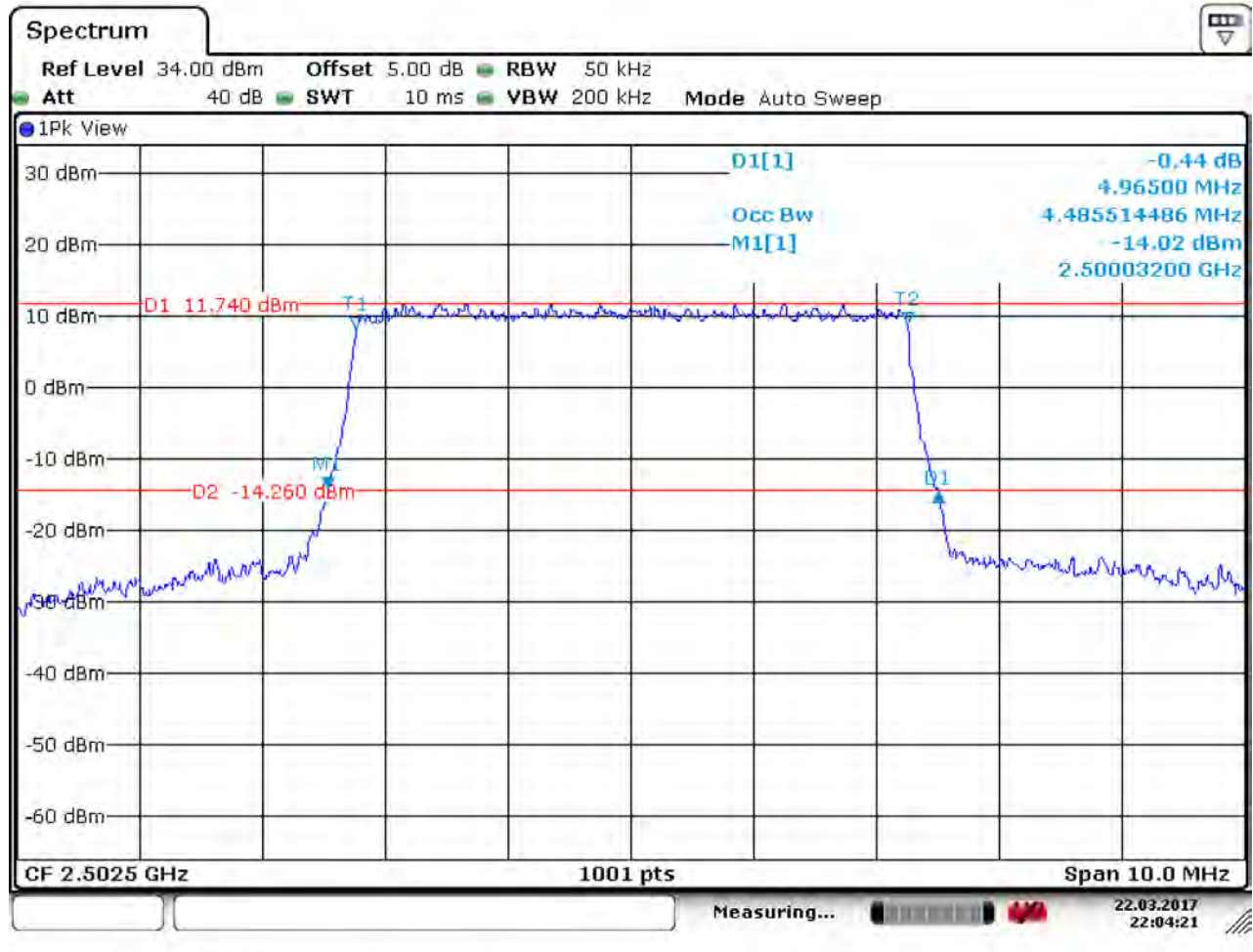


Date: 22.MAR.2017 22:07:19



4.1.1.2 Test Mode = LTE/TM2 5MHz

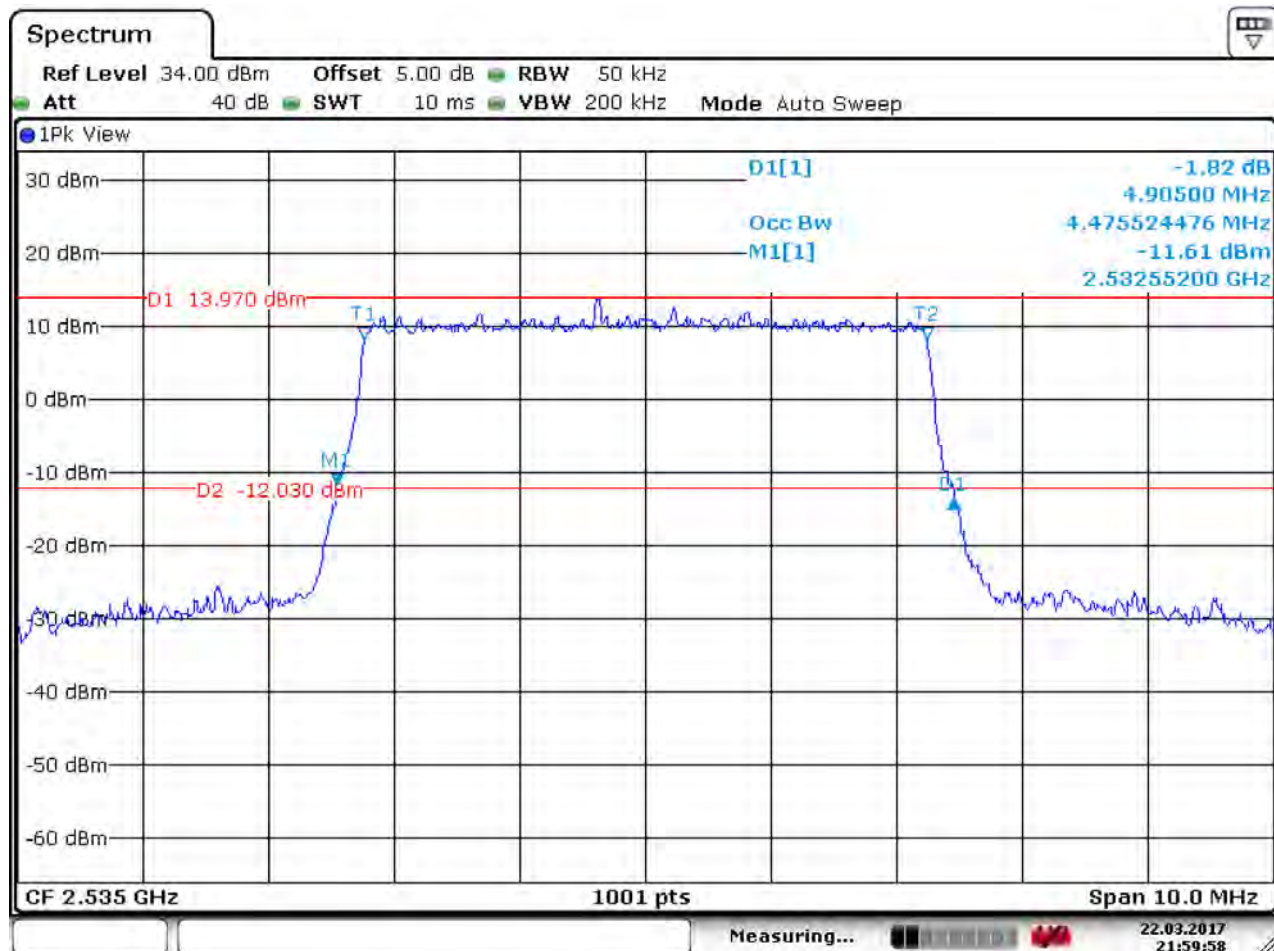
4.1.1.2.1 Test Channel = LCH



Date: 22.MAR.2017 22:04:21



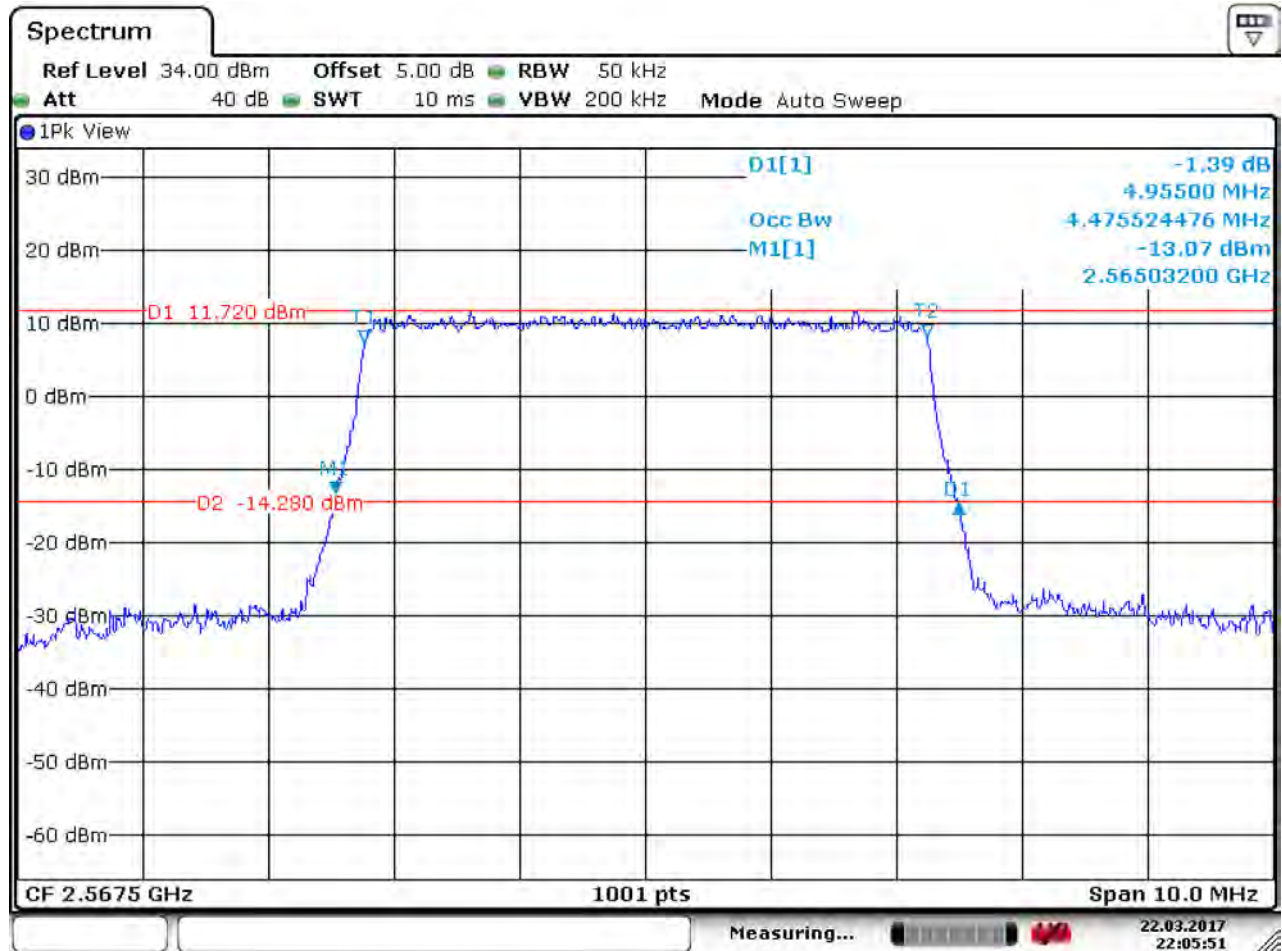
4.1.1.2.2 Test Channel = MCH



Date: 22.MAR.2017 21:59:59



4.1.1.2.3 Test Channel = HCH

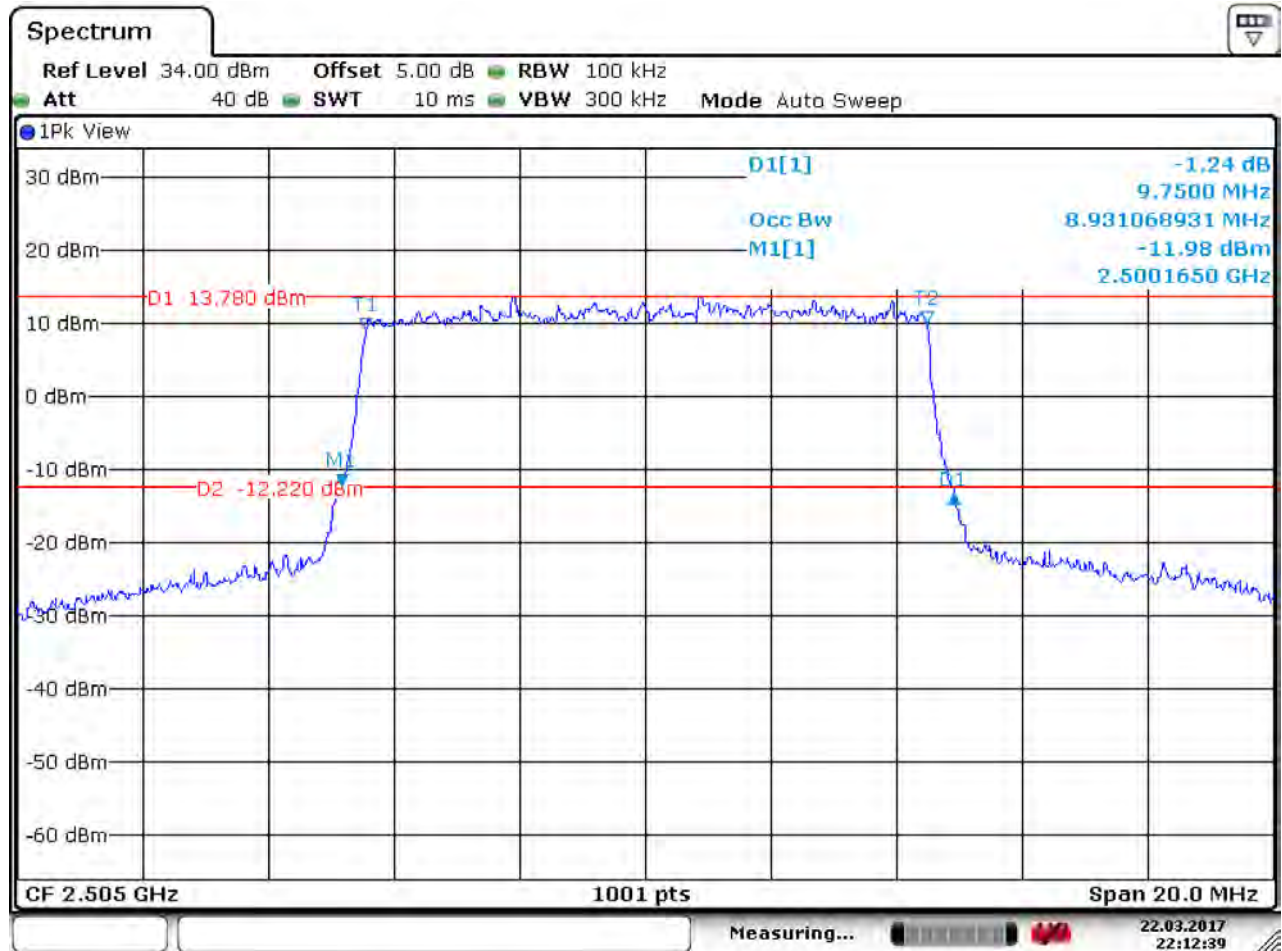


Date: 22.MAR.2017 22:05:52



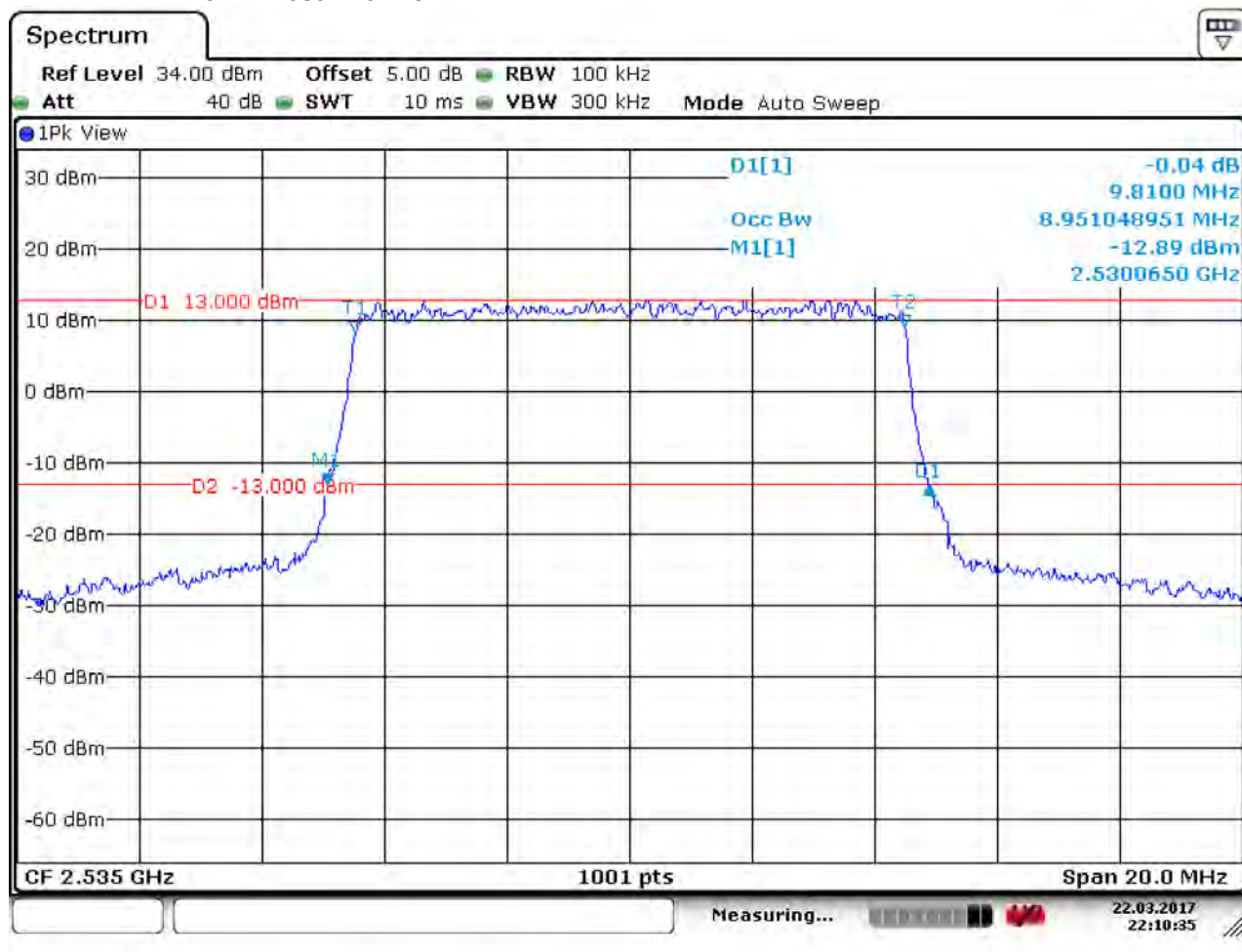
4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH



Date: 22.MAR.2017 22:12:39

4.1.1.3.2 Test Channel = MCH

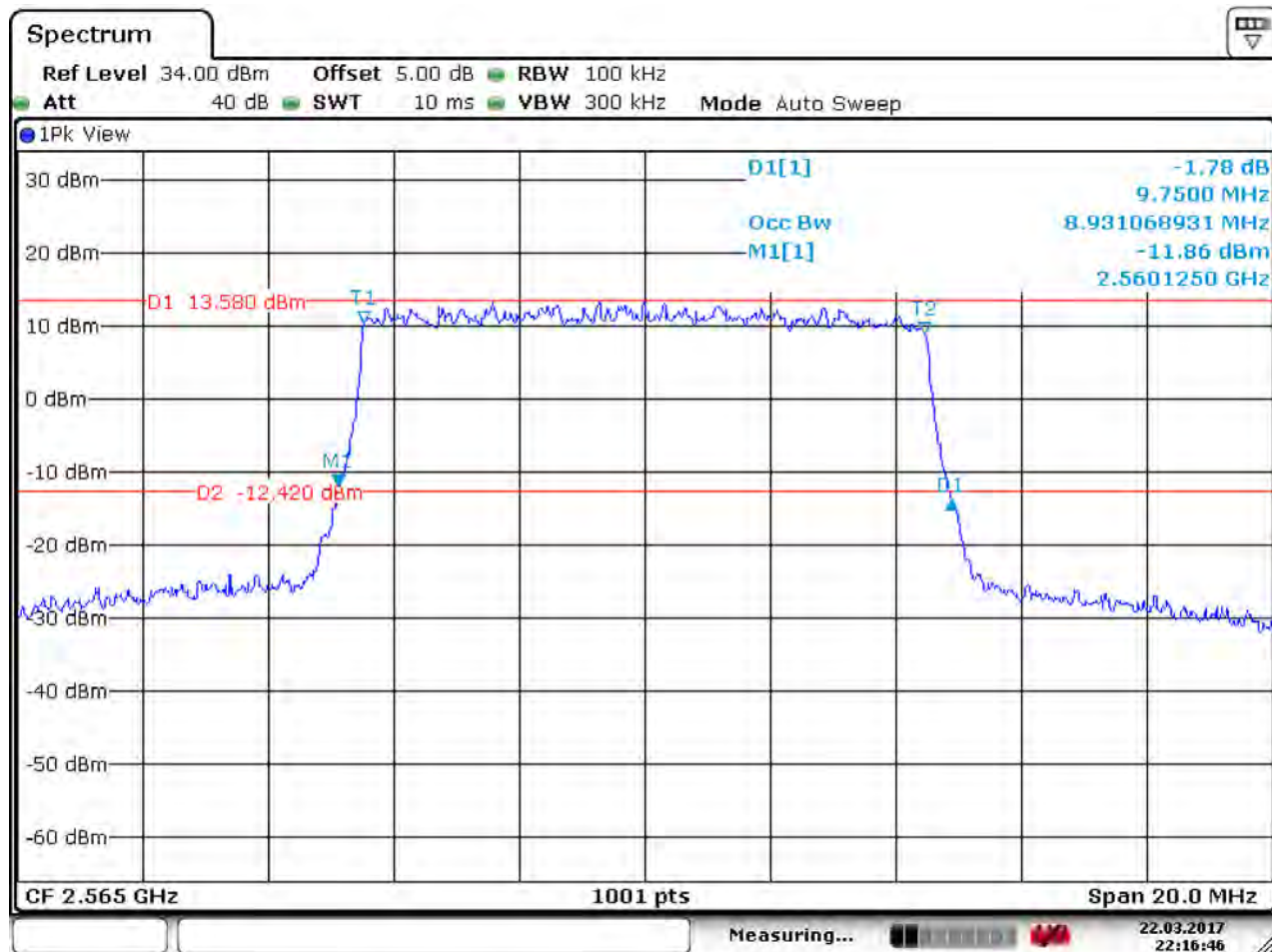


Date: 22.MAR.2017 22:10:35

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4.1.1.3.3 Test Channel = HCH

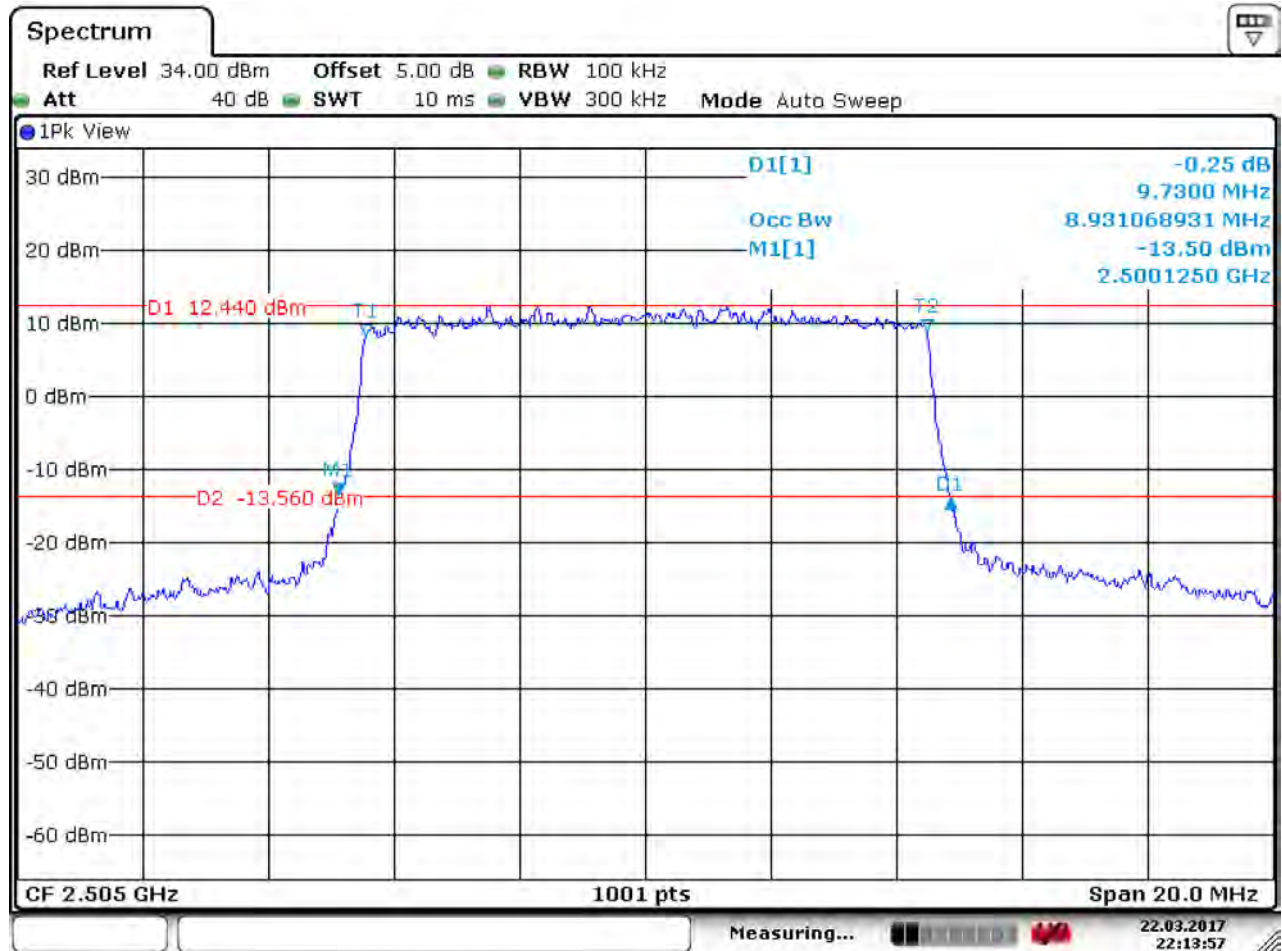


Date: 22.MAR.2017 22:16:47



4.1.1.4 Test Mode = LTE/TM2 10MHz

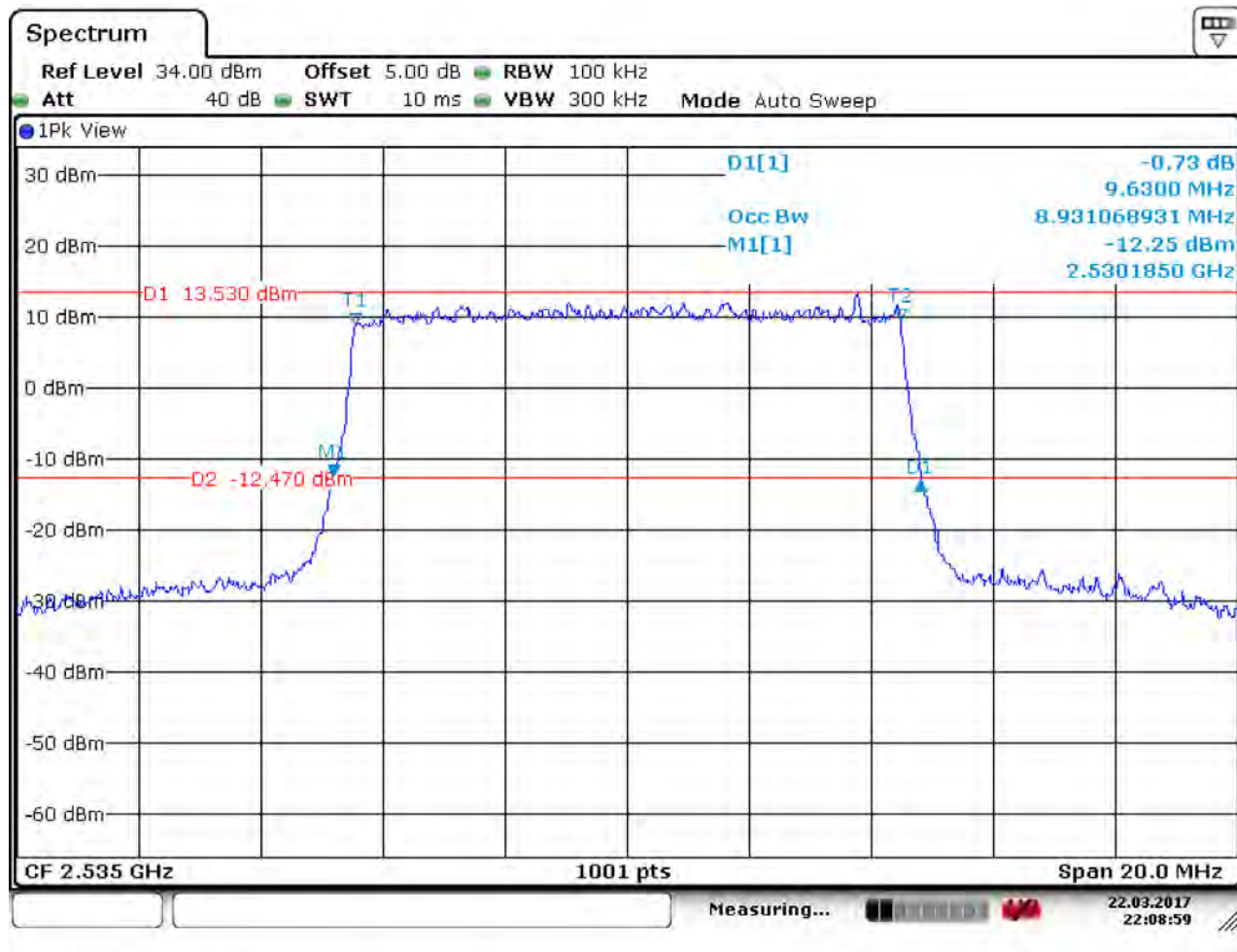
4.1.1.4.1 Test Channel = LCH



Date: 22.MAR.2017 22:13:57

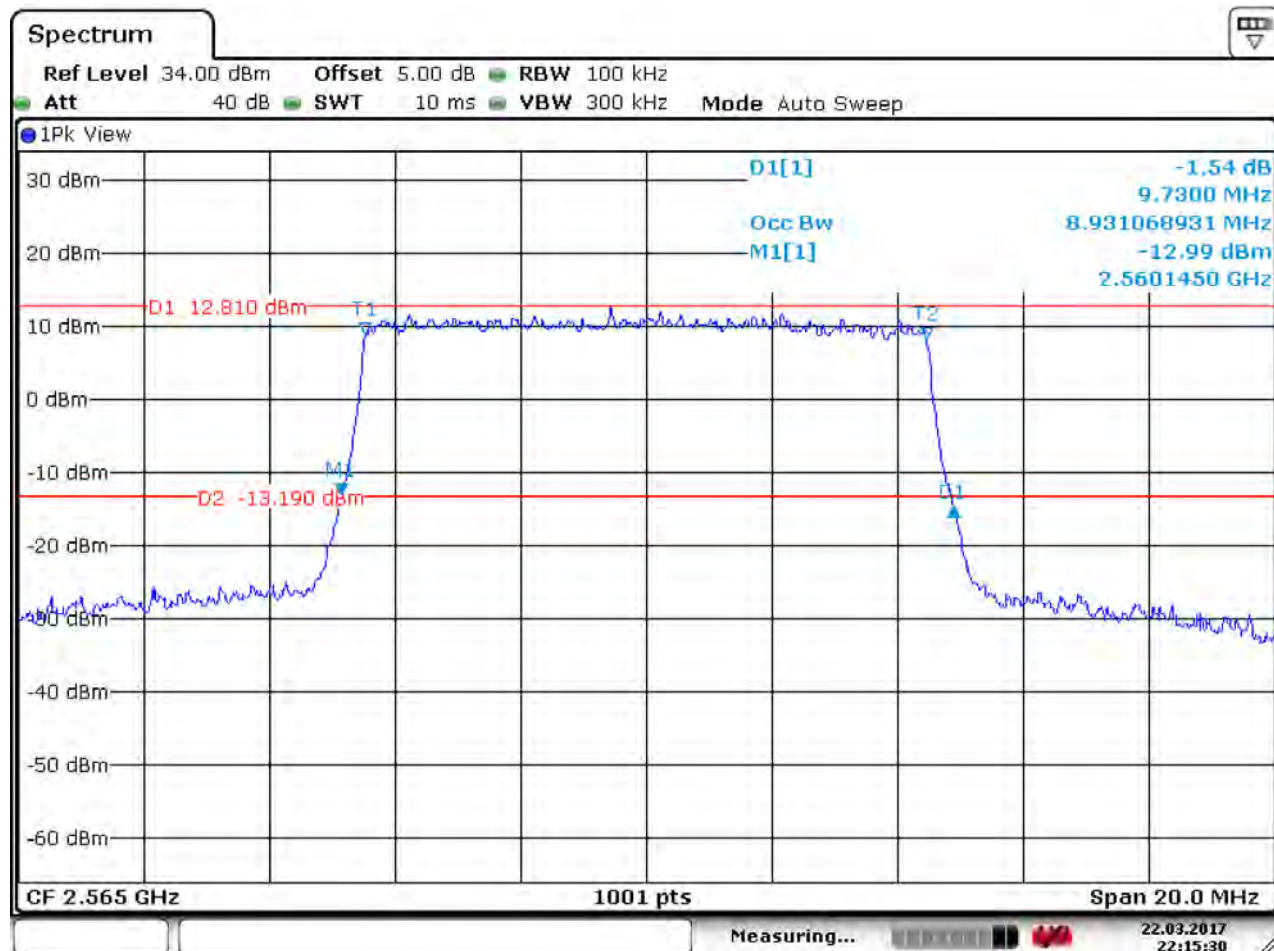


4.1.1.4.2 Test Channel = MCH



Date: 22.MAR.2017 22:08:59

4.1.1.4.3 Test Channel = HCH



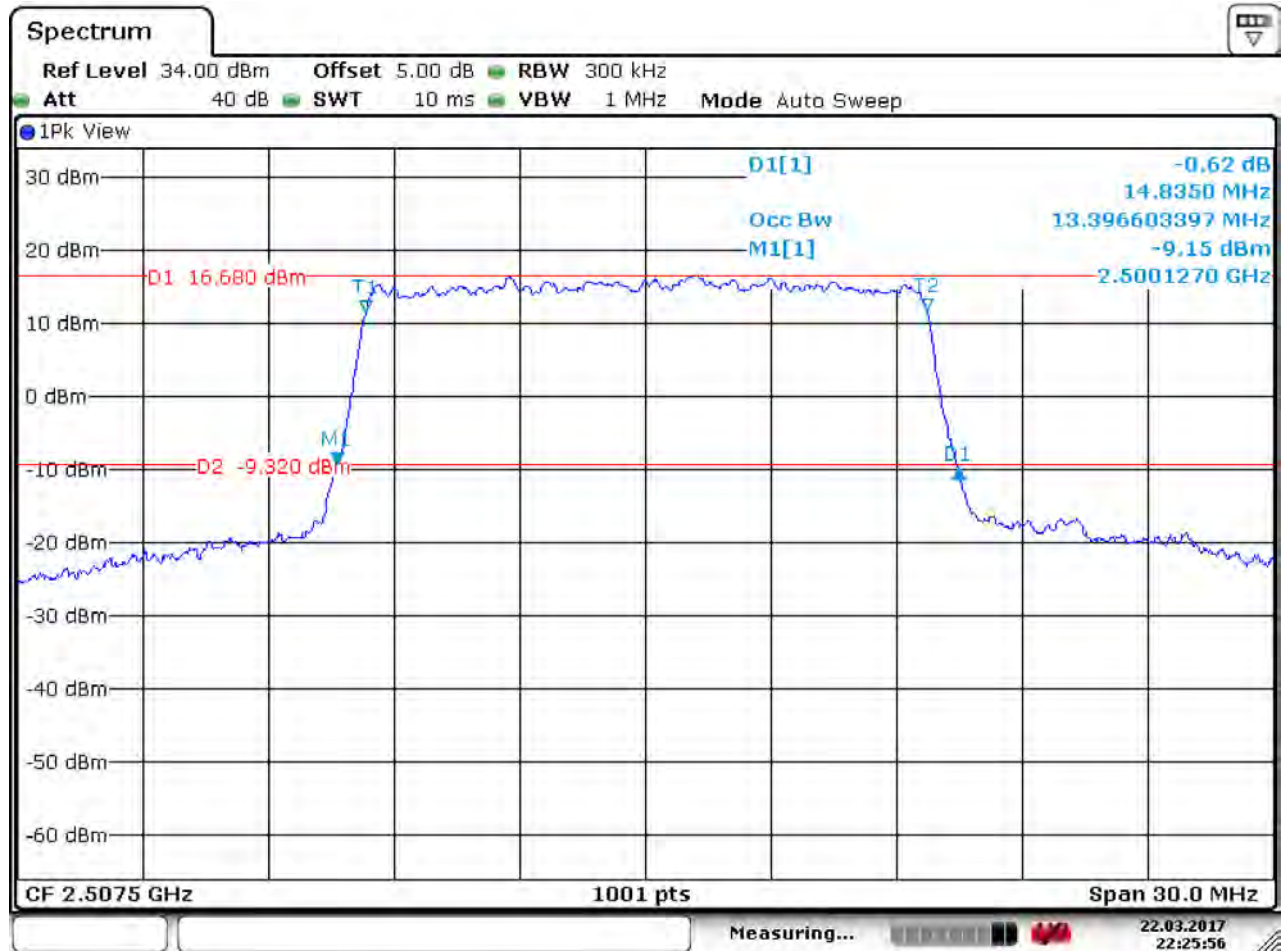
Date: 22.MAR.2017 22:15:30

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4.1.1.5 Test Mode = LTE/TM1 15MHz

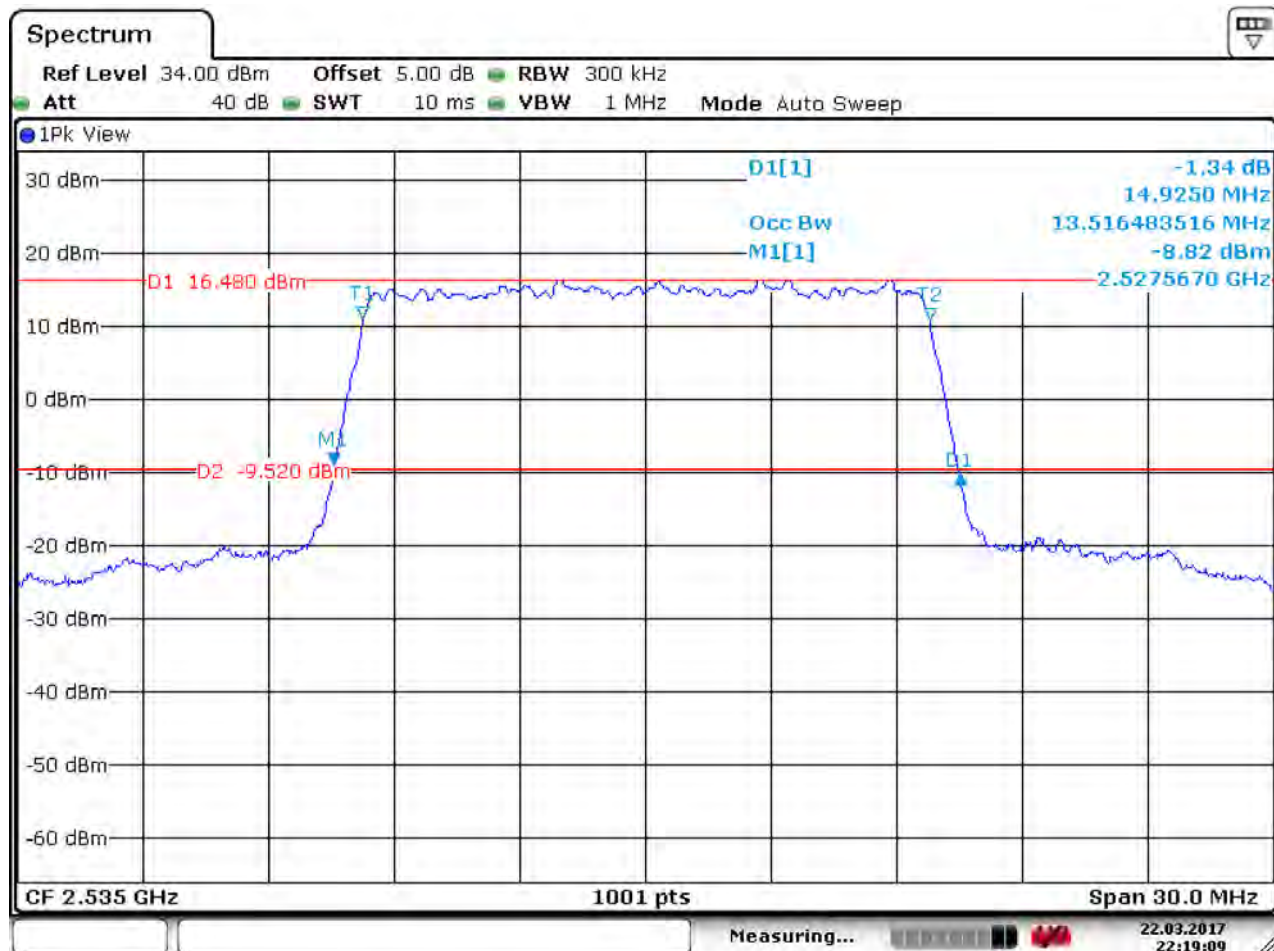
4.1.1.5.1 Test Channel = LCH



Date: 22.MAR.2017 22:25:56



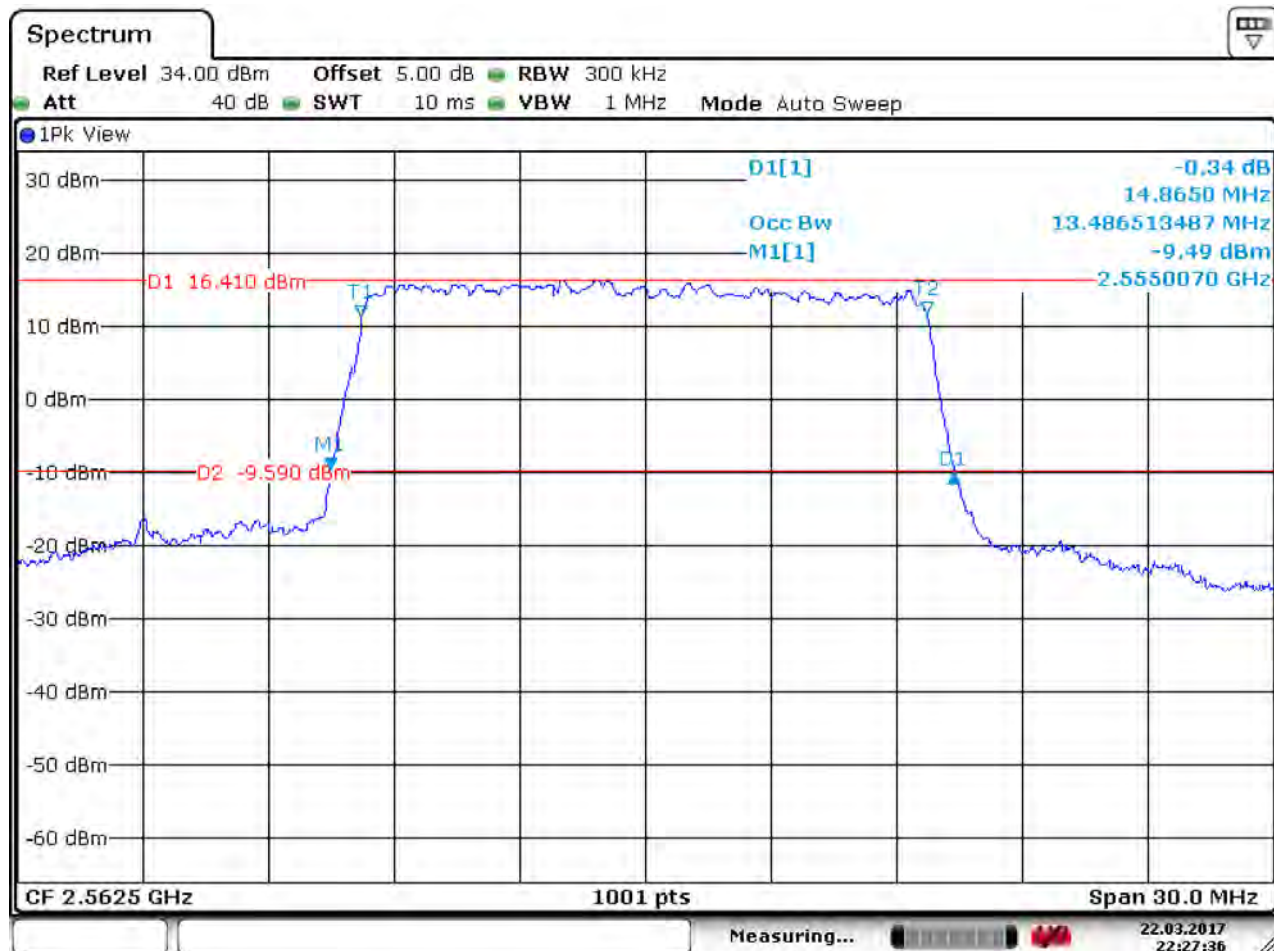
4.1.1.5.2 Test Channel = MCH



Date: 22.MAR.2017 22:19:09



4.1.1.5.3 Test Channel = HCH



Date: 22.MAR.2017 22:27:37



4.1.1.6 Test Mode = LTE/TM2 15MHz

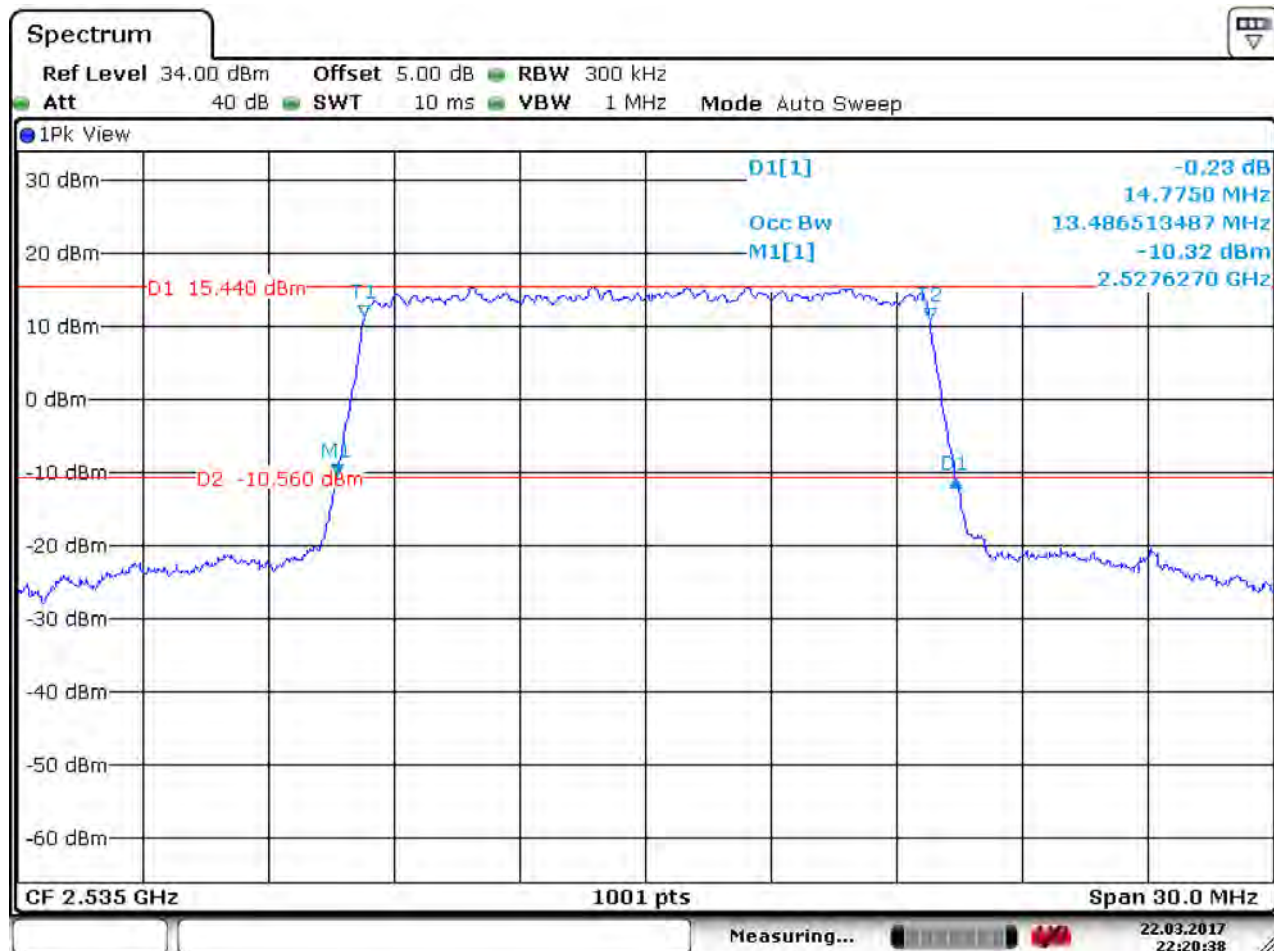
4.1.1.6.1 Test Channel = LCH



Date: 22.MAR.2017 22:24:31



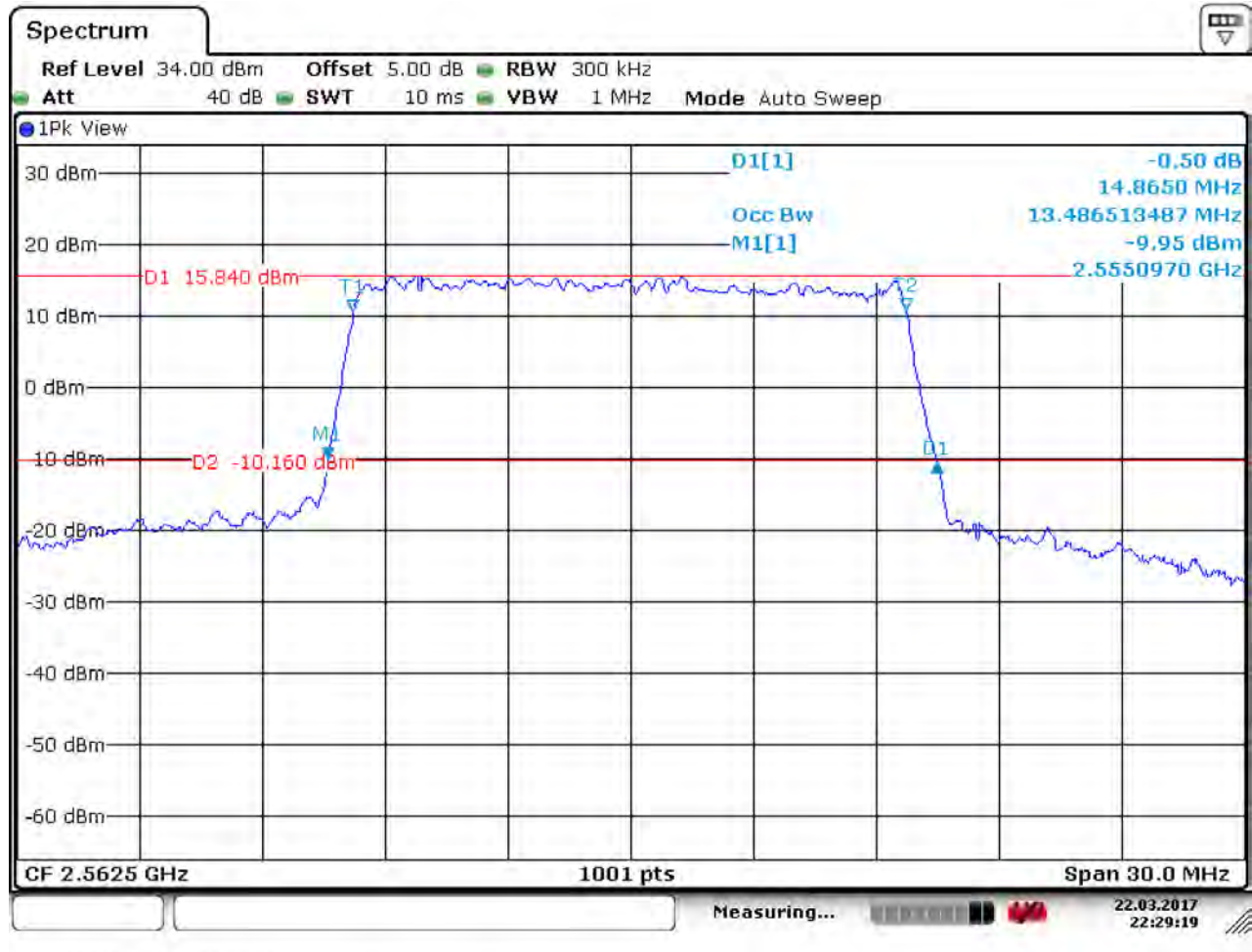
4.1.1.6.2 Test Channel = MCH



Date: 22.MAR.2017 22:20:39



4.1.1.6.3 Test Channel = HCH

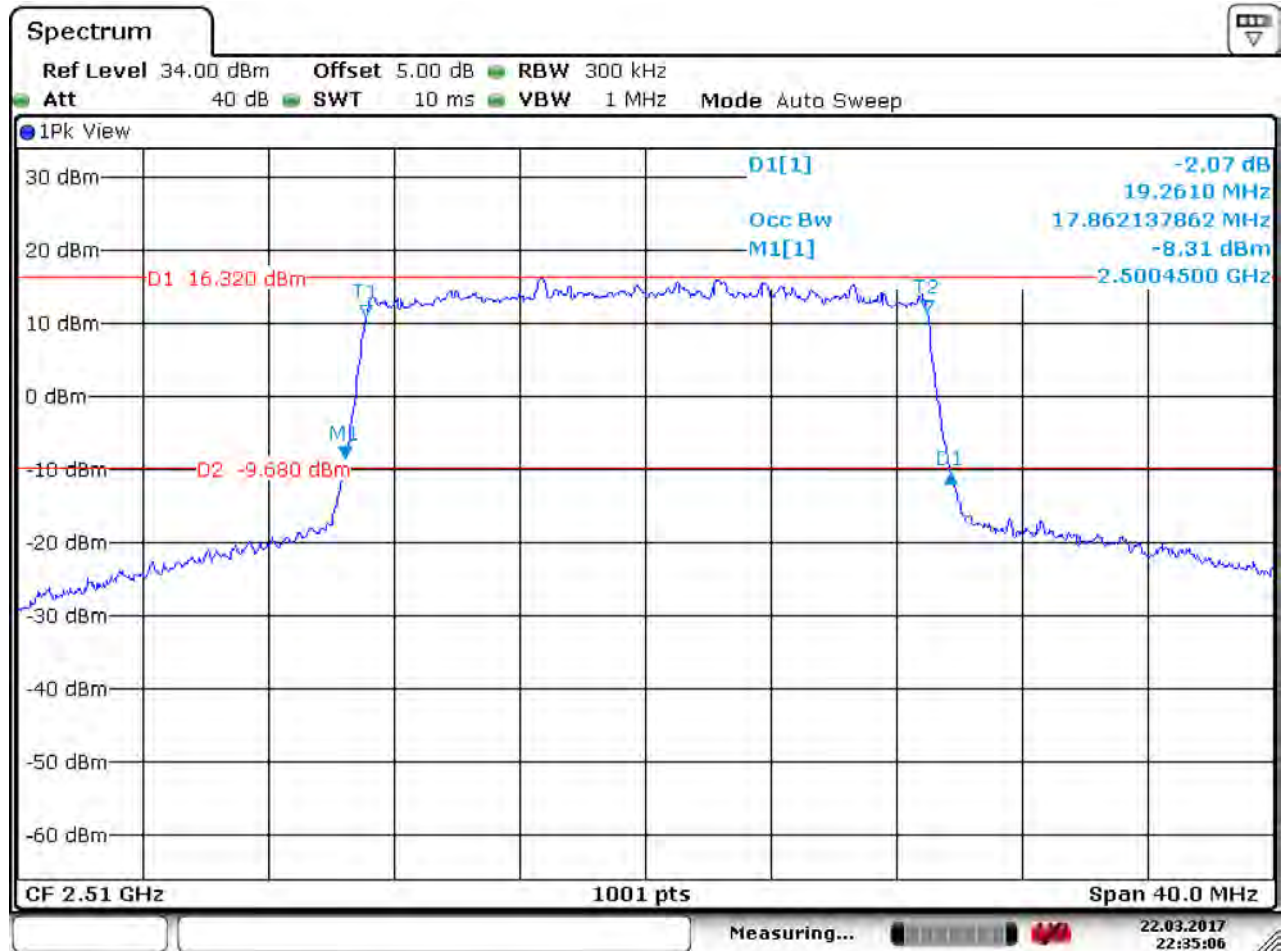


Date: 22.MAR.2017 22:29:19



4.1.1.7 Test Mode = LTE/TM1 20MHz

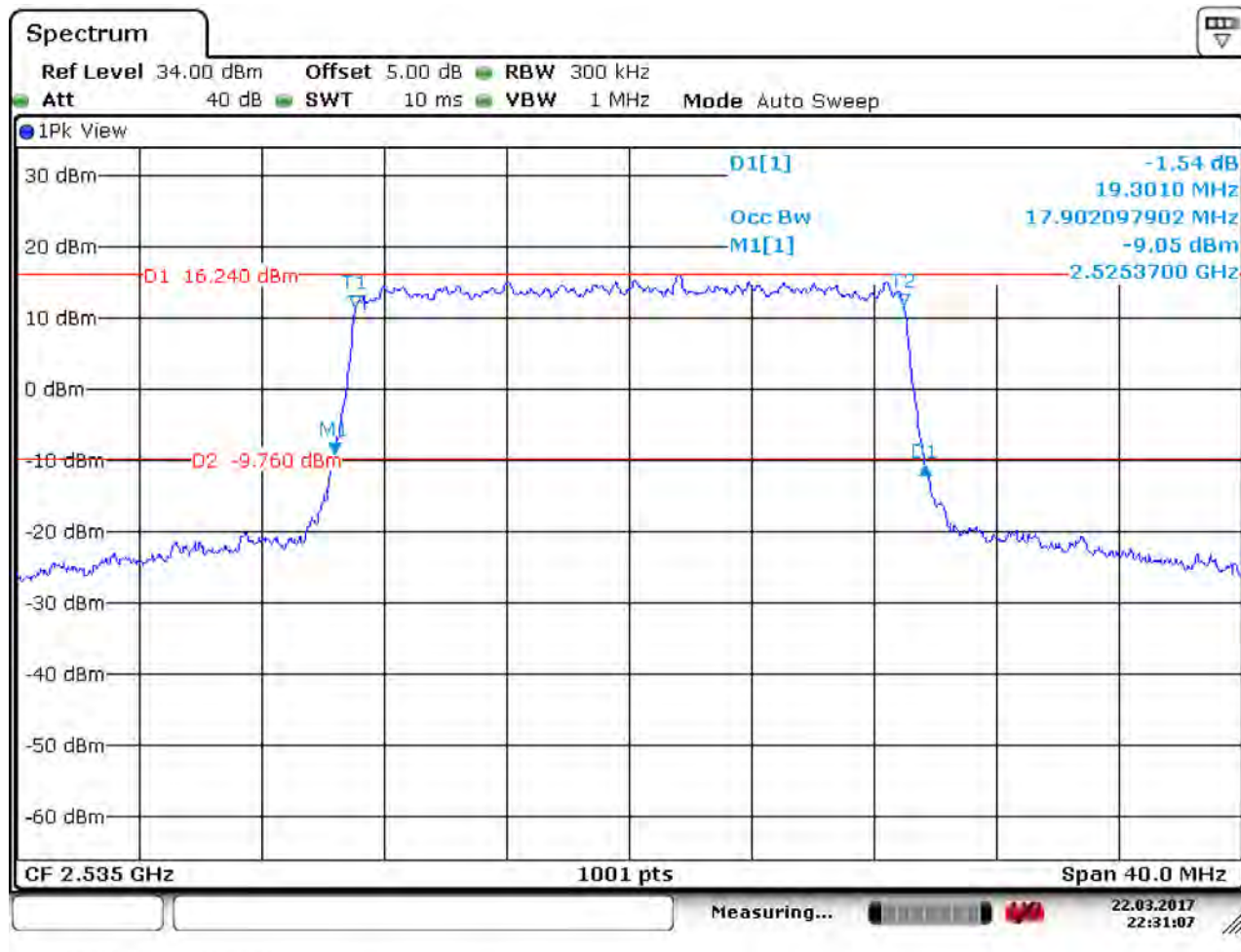
4.1.1.7.1 Test Channel = LCH



Date: 22.MAR.2017 22:35:07

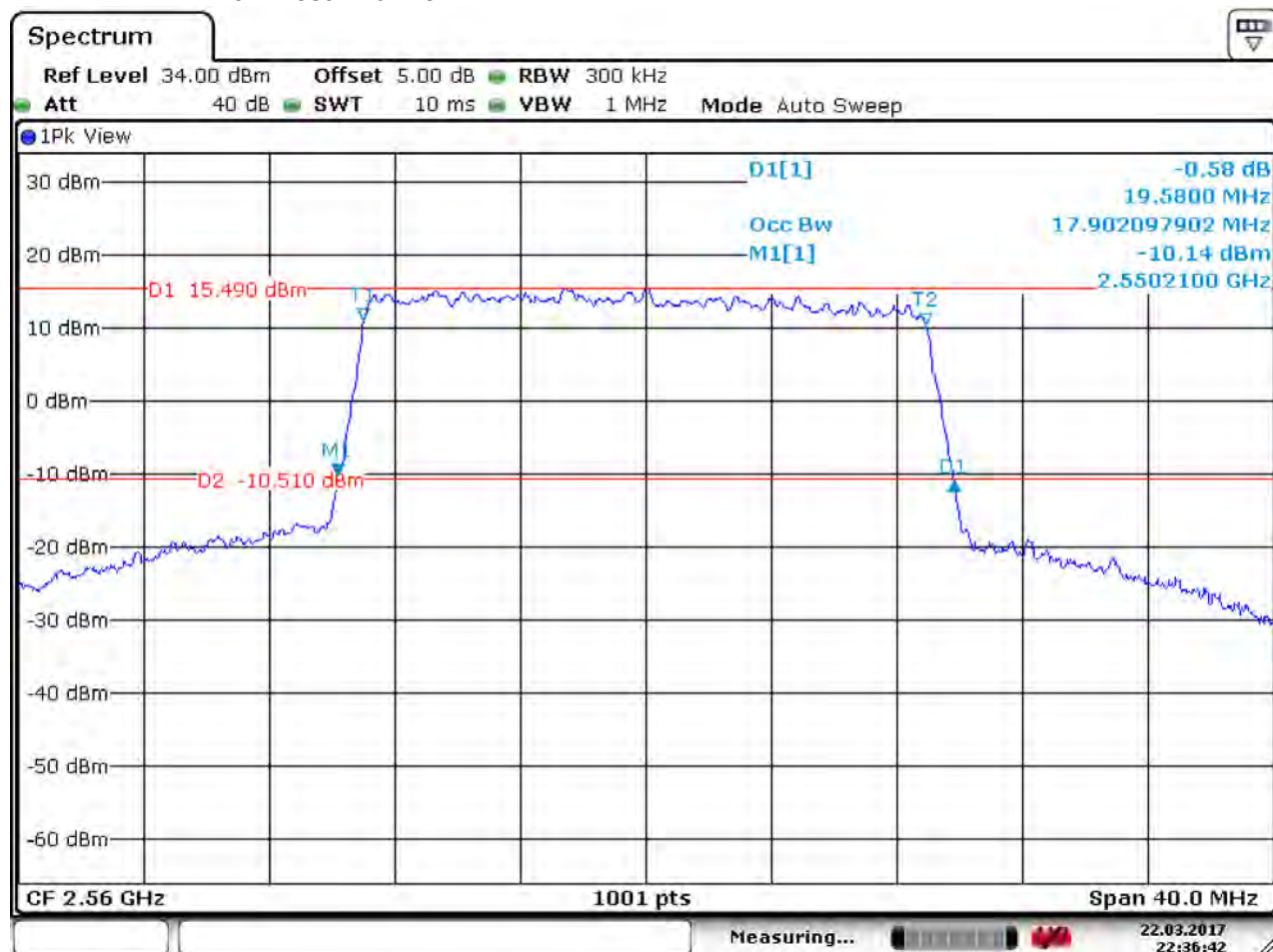


4.1.1.7.2 Test Channel = MCH



Date: 22.MAR.2017 22:31:08

4.1.1.7.3 Test Channel = HCH

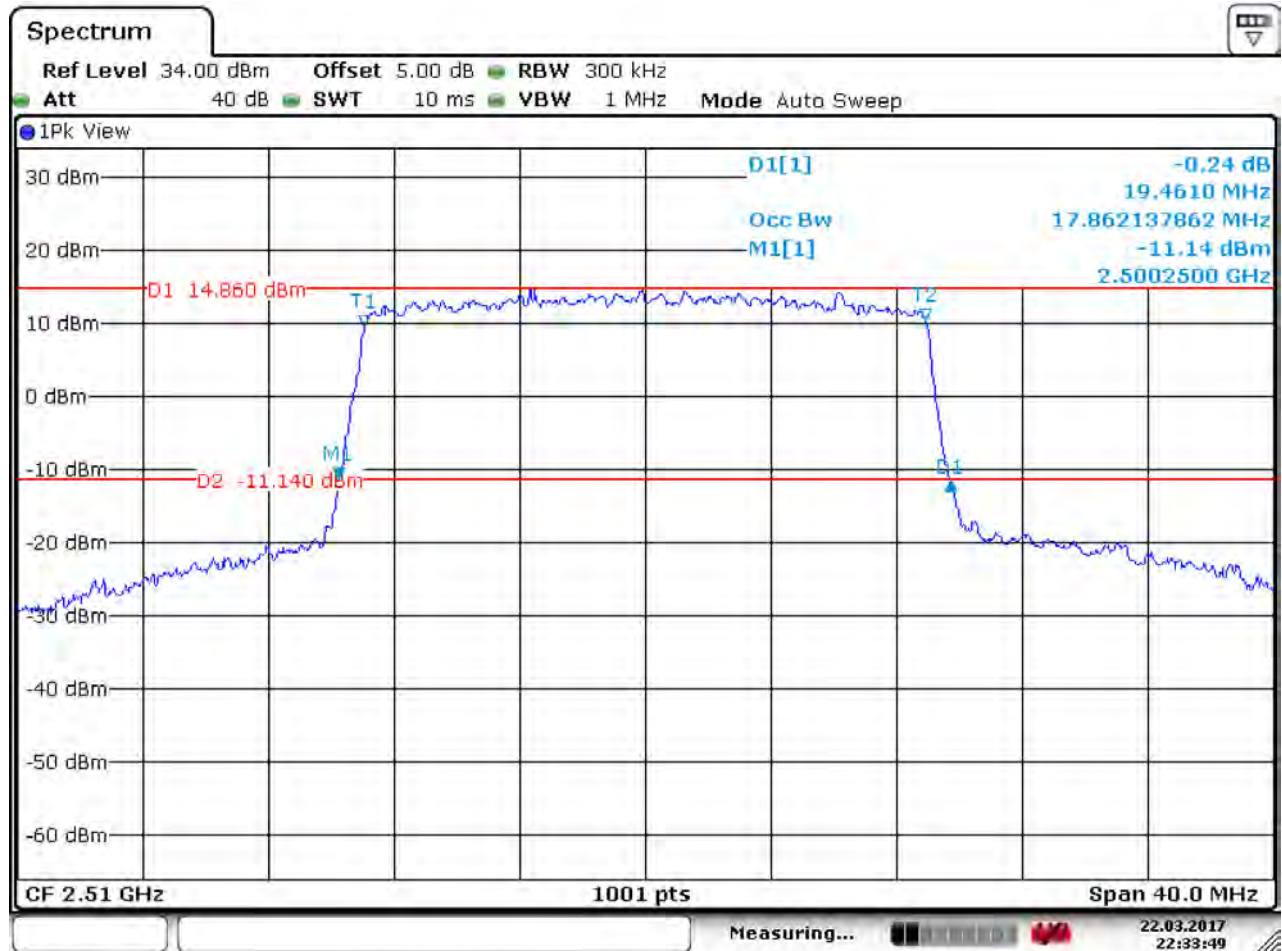


Date: 22.MAR.2017 22:36:42



4.1.1.8 Test Mode = LTE/TM2 20MHz

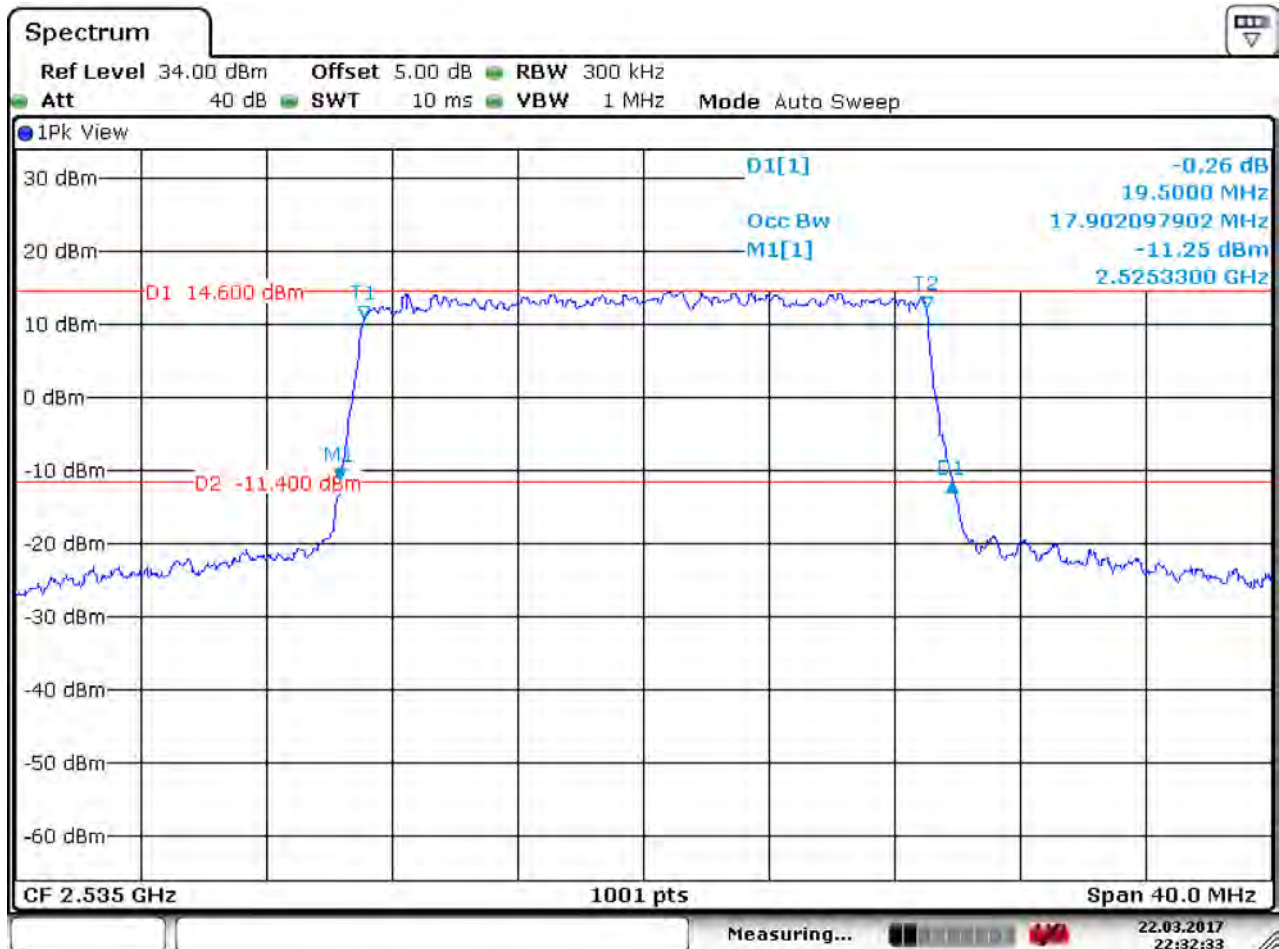
4.1.1.8.1 Test Channel = LCH



Date: 22.MAR.2017 22:33:49



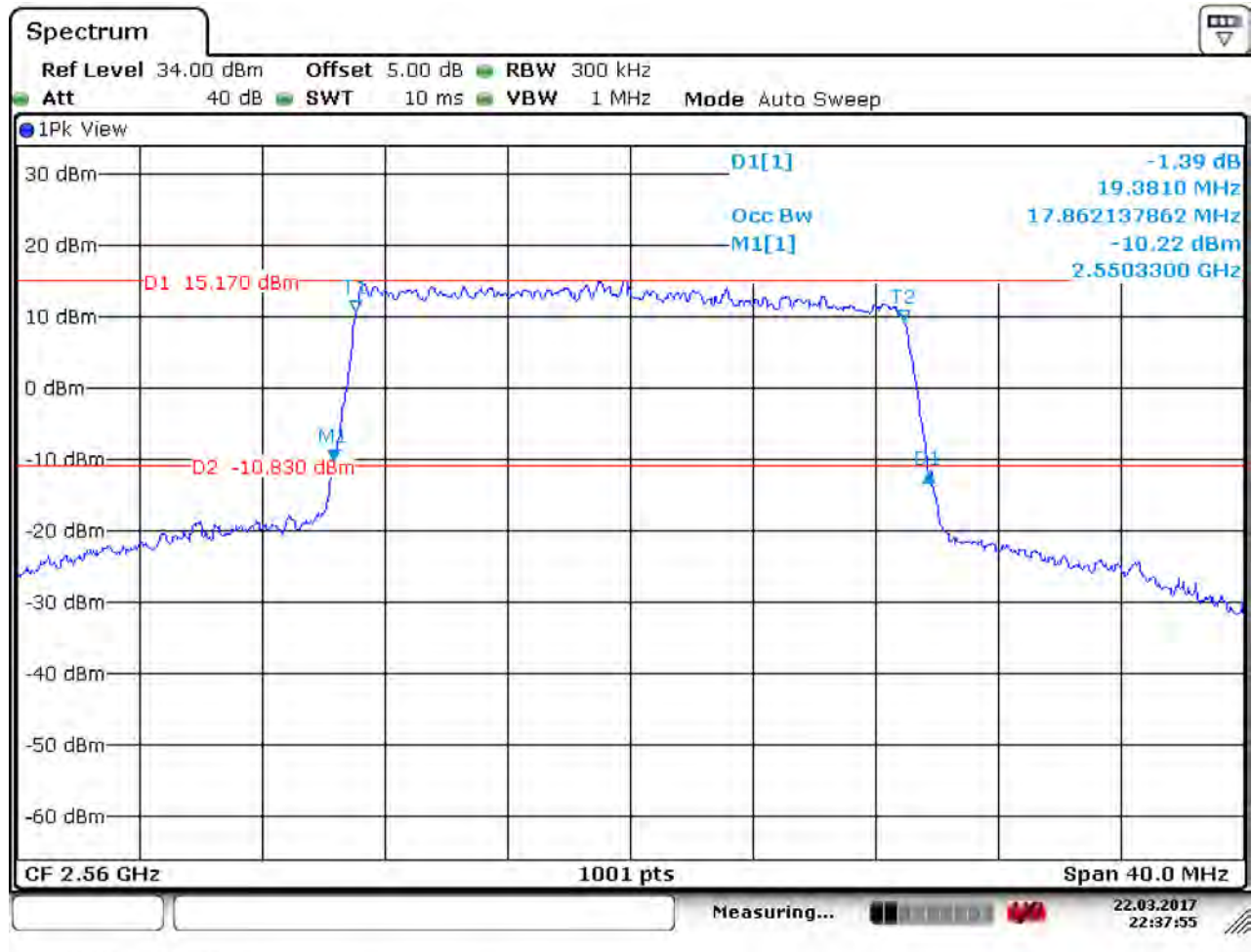
4.1.1.8.2 Test Channel = MCH



Date: 22.MAR.2017 22:32:34



4.1.1.8.3 Test Channel = HCH



Date: 22.MAR.2017 22:37:55



5 Band Edges Compliance

Part I –

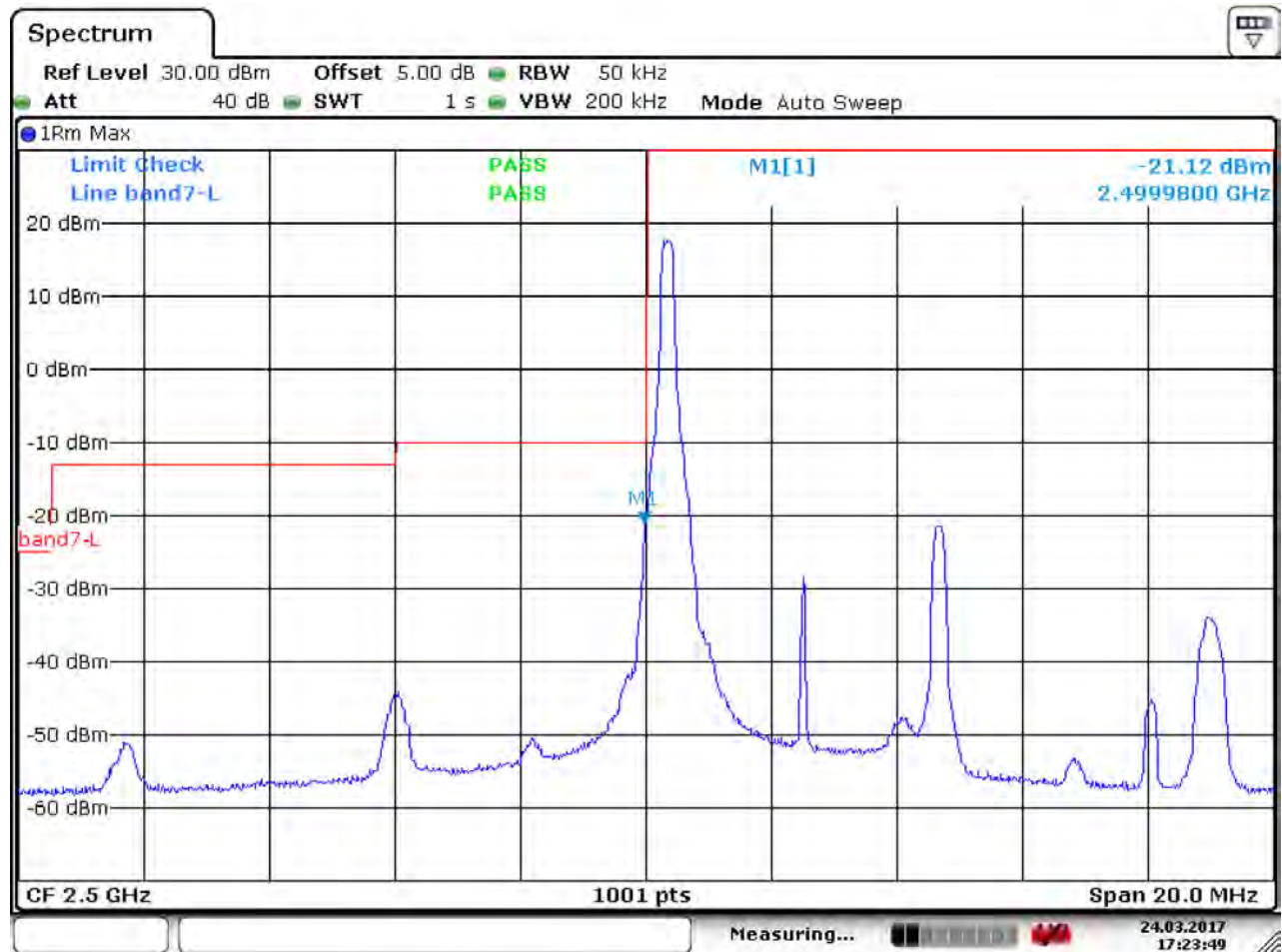
5.1 For LTE

5.1.1 Test Band = LTE band7

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

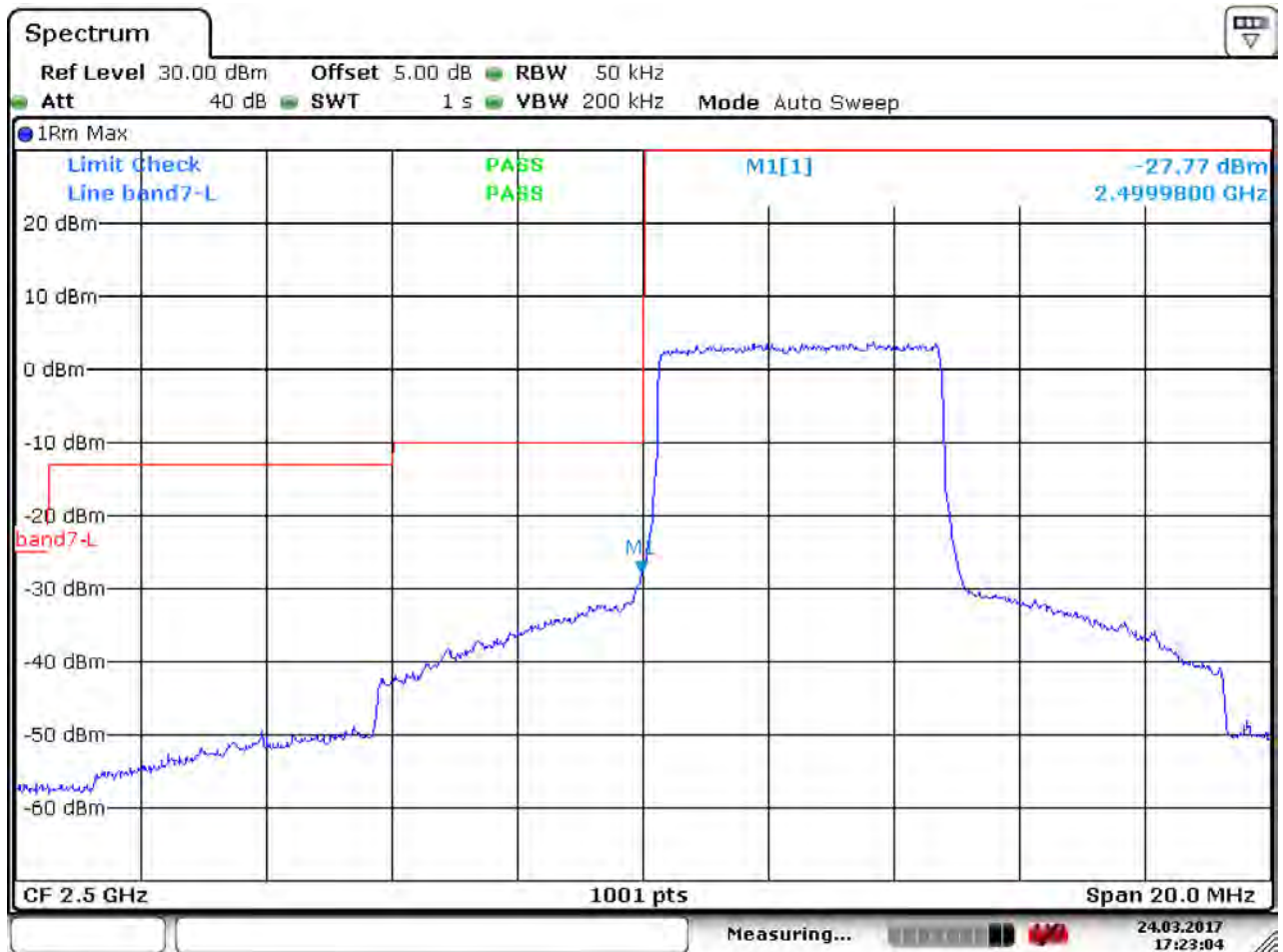
5.1.1.1.1.1 Test RB=1RB



Date: 24.MAR.2017 17:23:49



5.1.1.1.2 Test RB=25RB



Date: 24.MAR.2017 17:23:04



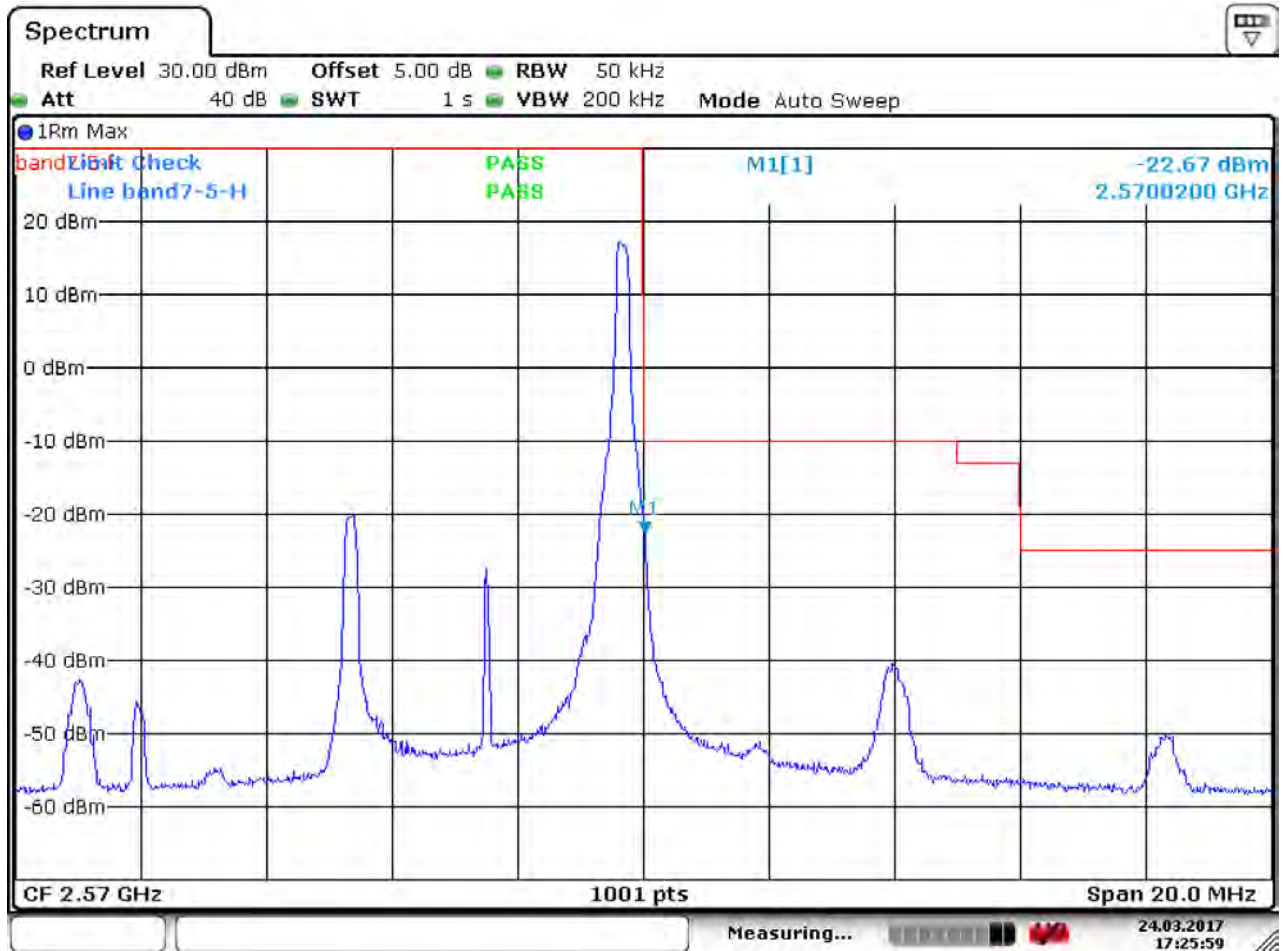
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Shenzhen Branch

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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

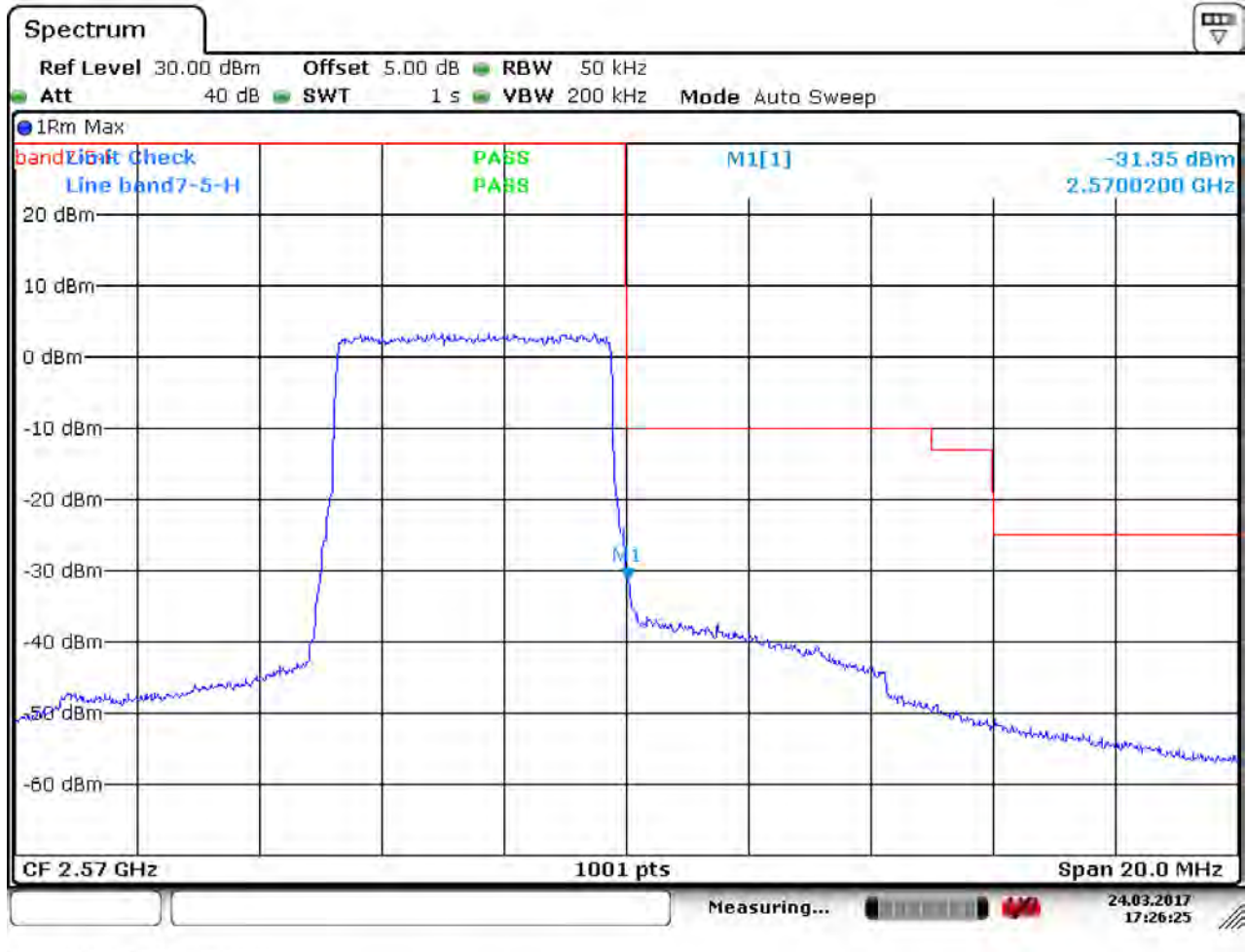


Date: 24. MAR. 2017 17:26:00

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5.1.1.1.2.2 Test RB=25RB



Date: 24.MAR.2017 17:26:26



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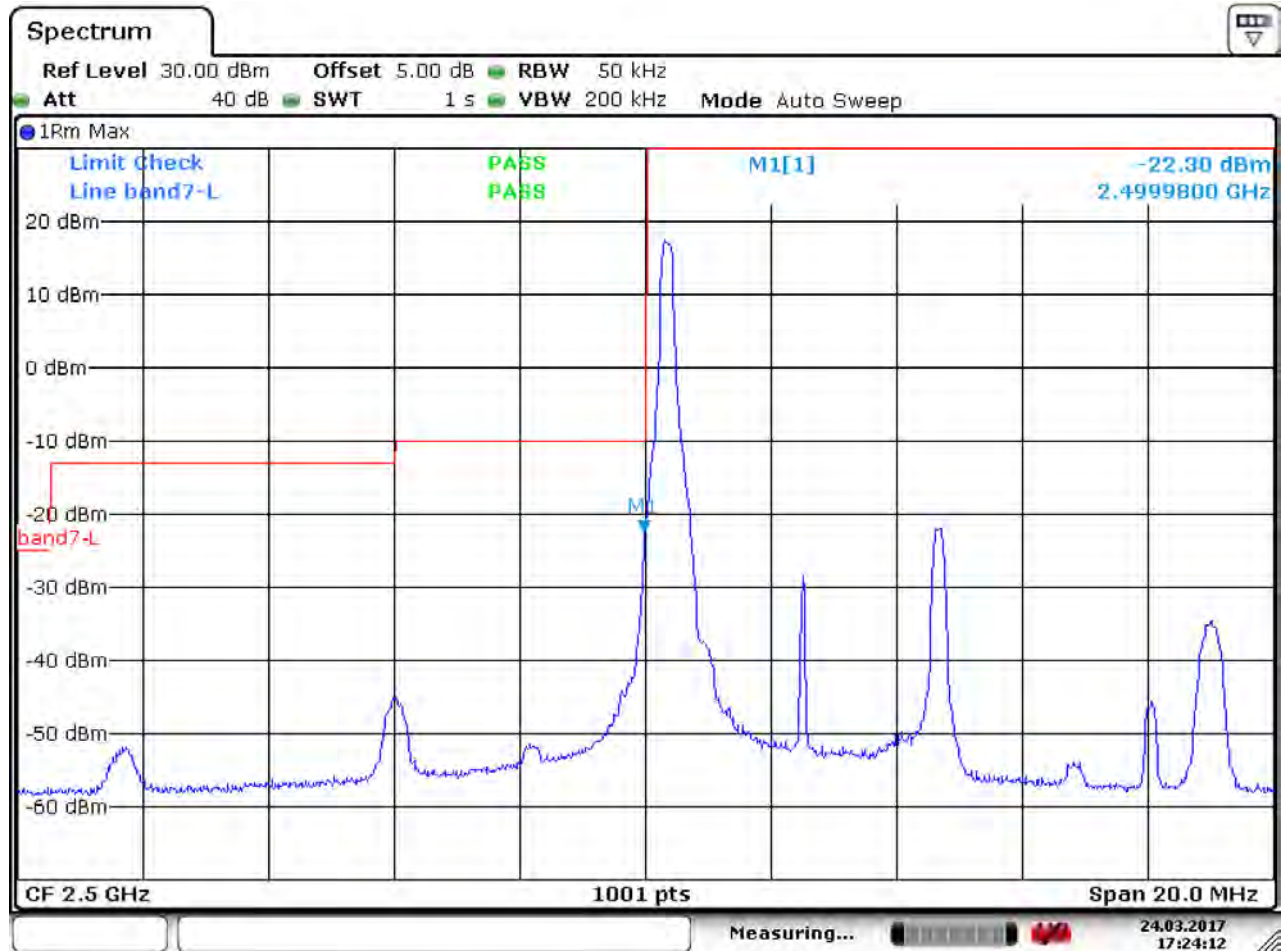
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

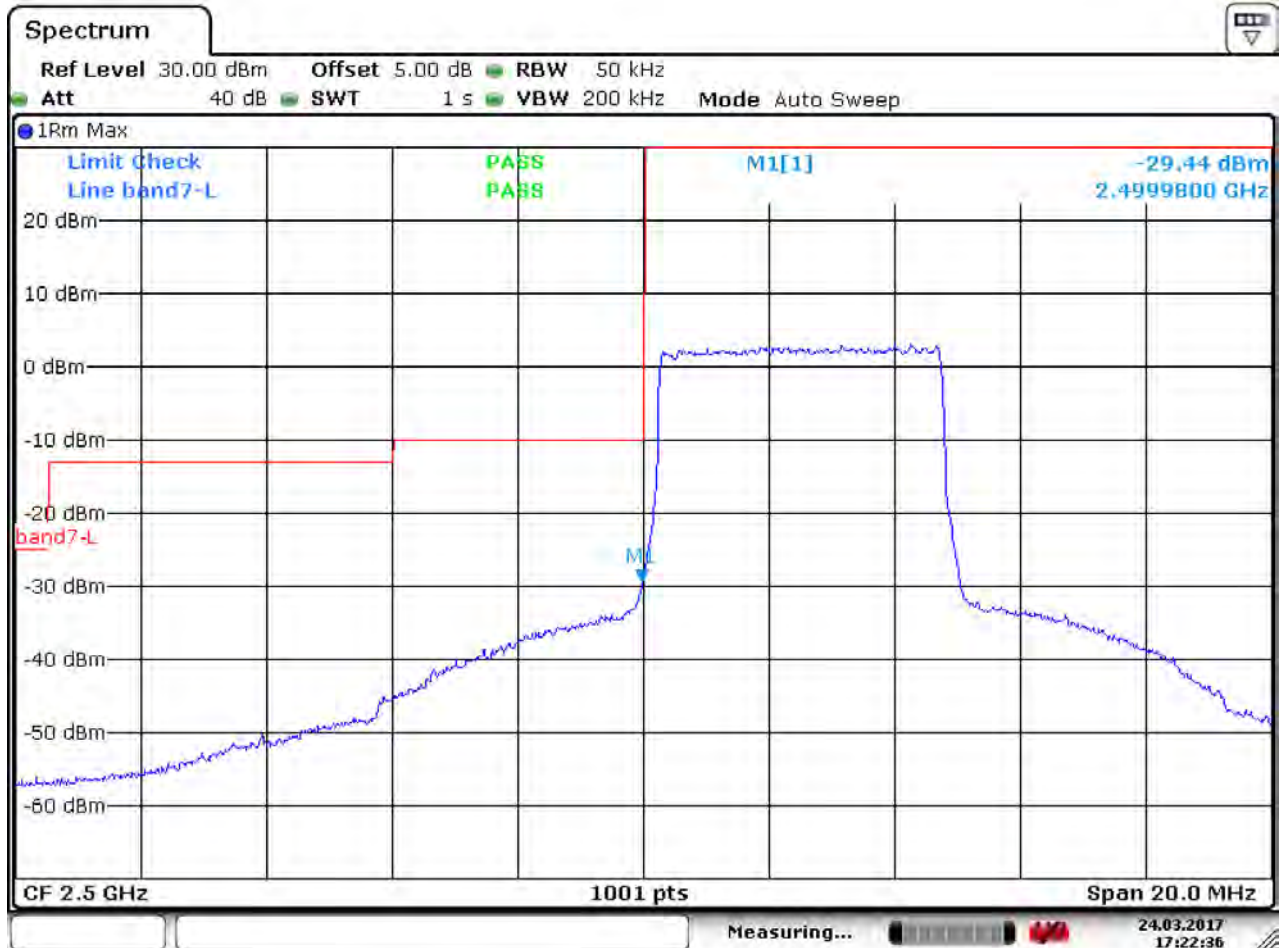


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5.1.1.2.1.2 Test RB=25RB

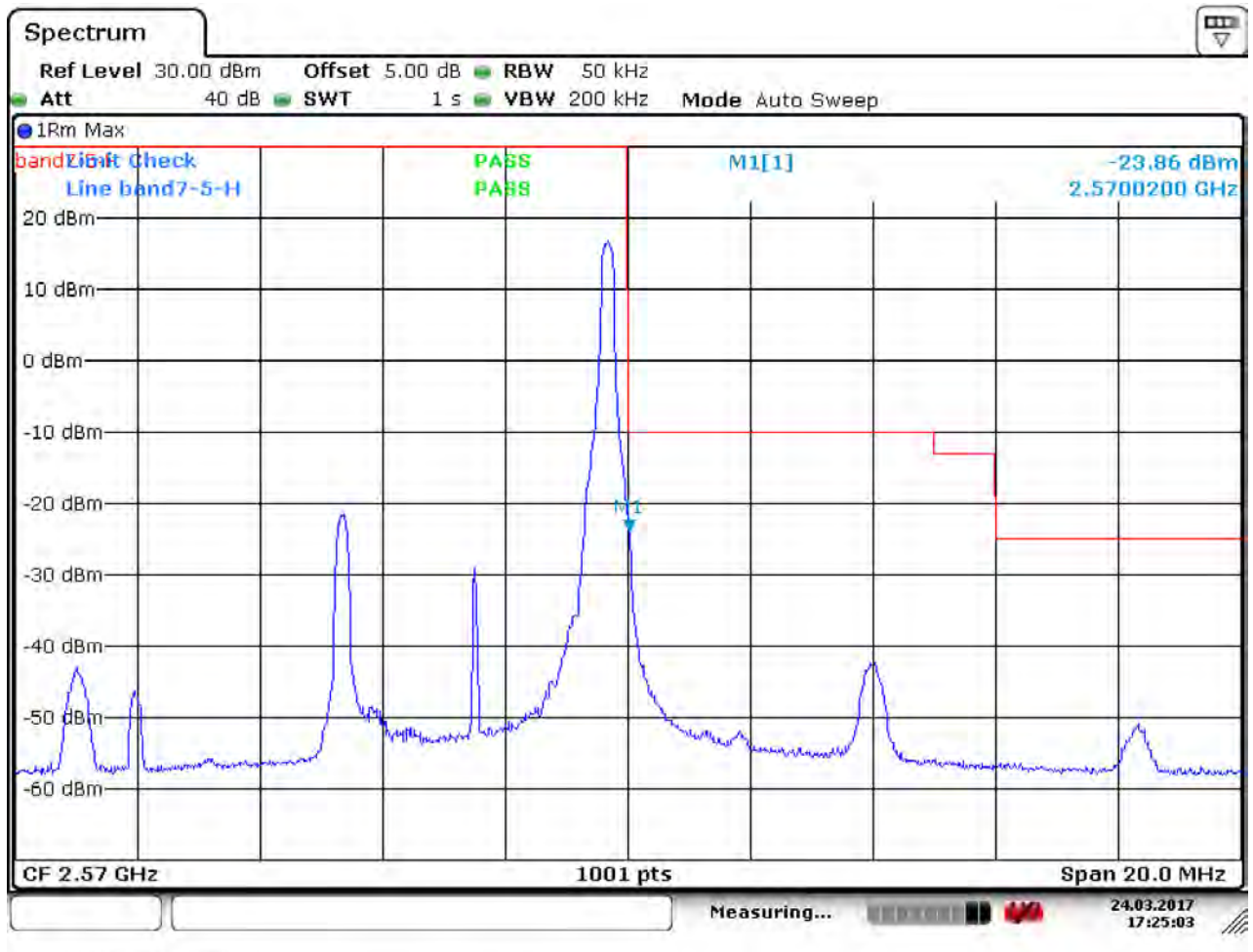


Date: 24. MAR. 2017 17:22:37



5.1.1.2.2 Test Channel = HCH

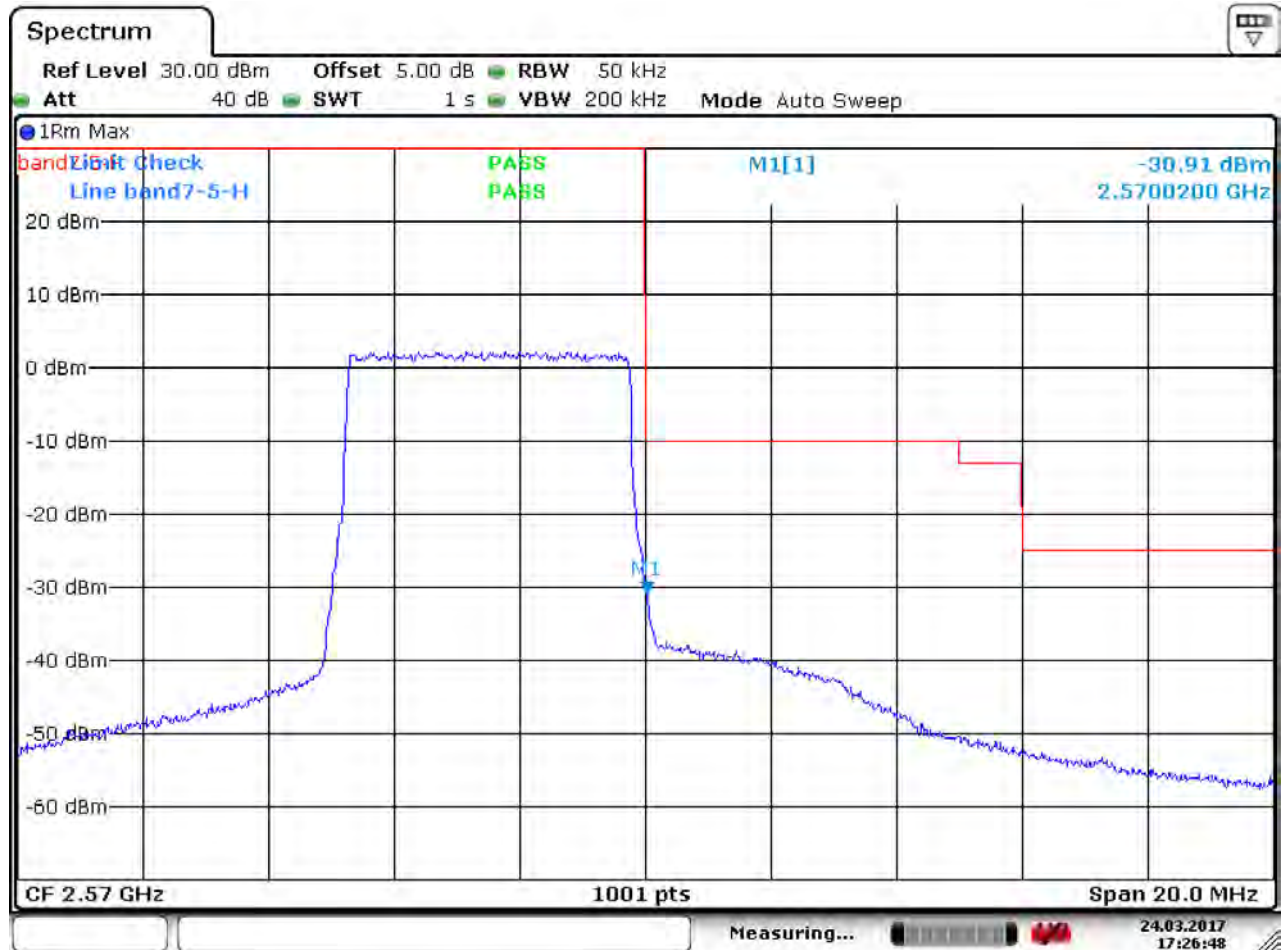
5.1.1.2.2.1 Test RB=1RB



Date: 24. MAR. 2017 17:25:04

5.1.1.2.2.2 Test RB=25RB

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Date: 24.MAR.2017 17:26:48

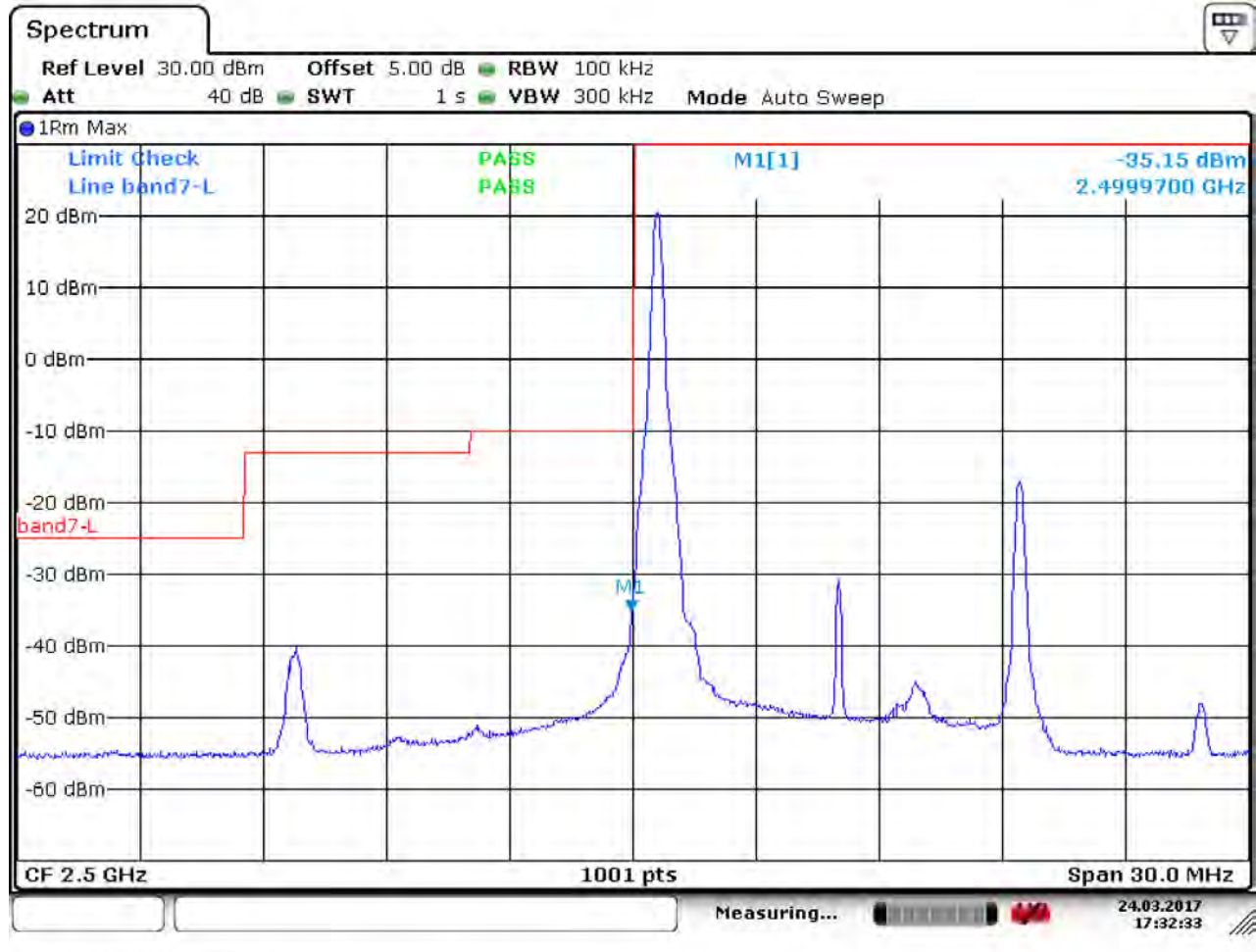
5.1.1.3 Test Mode = LTE/TM1 10MHz

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5.1.1.3.1 Test Channel = LCH

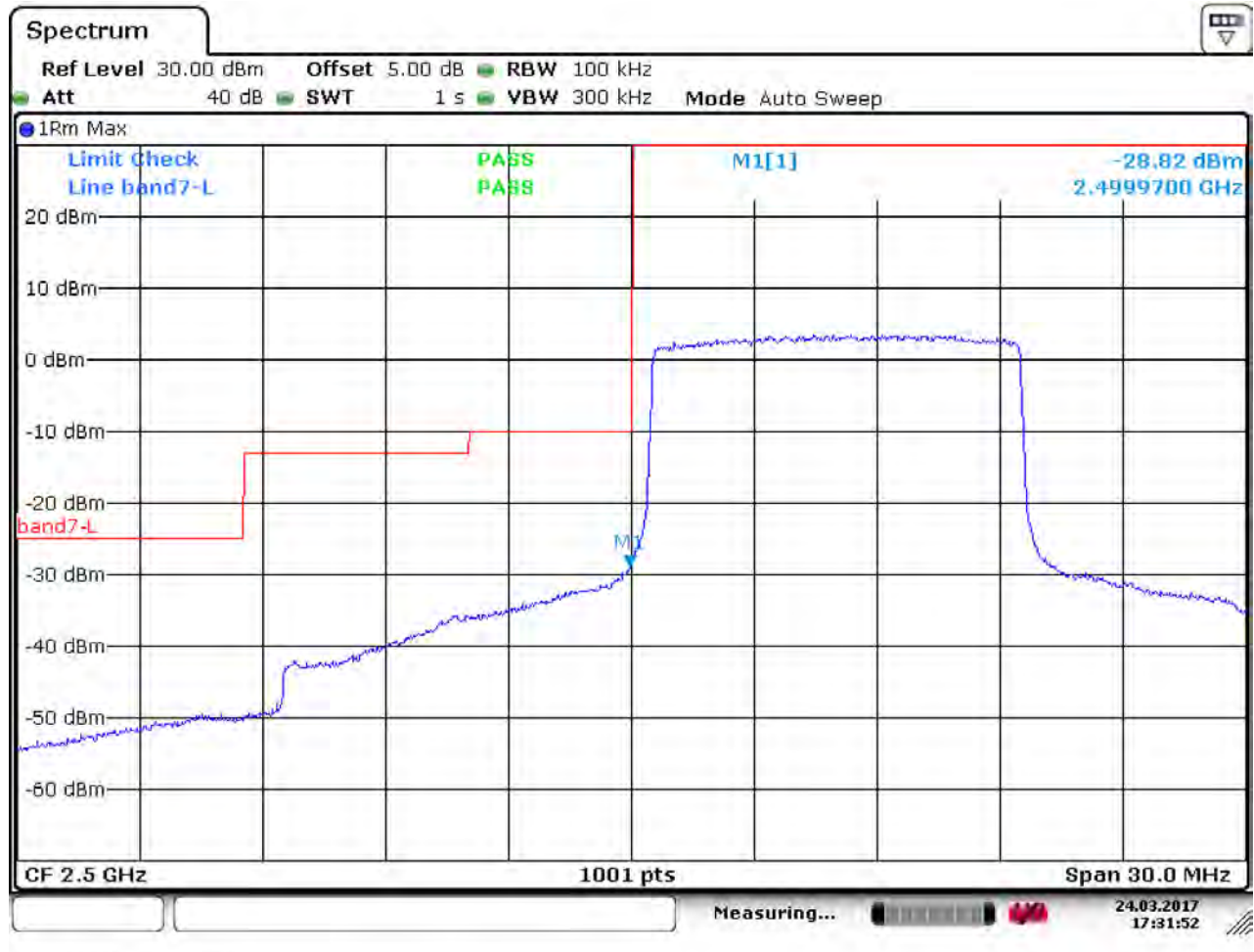
5.1.1.3.1.1 Test RB=1RB



Date: 24.MAR.2017 17:32:33

5.1.1.3.1.2 Test RB=50RB

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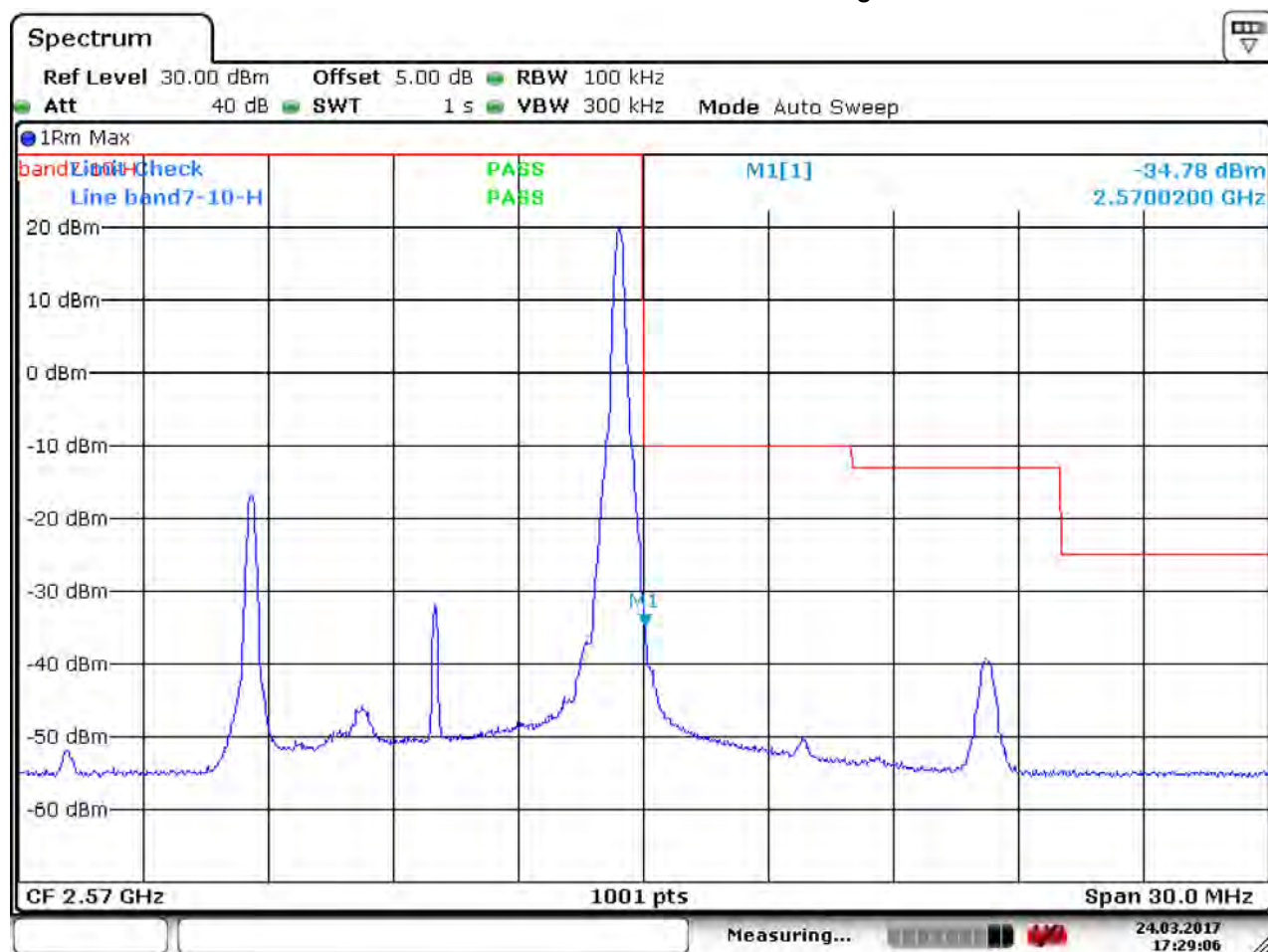


Date: 24.MAR.2017 17:31:52

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

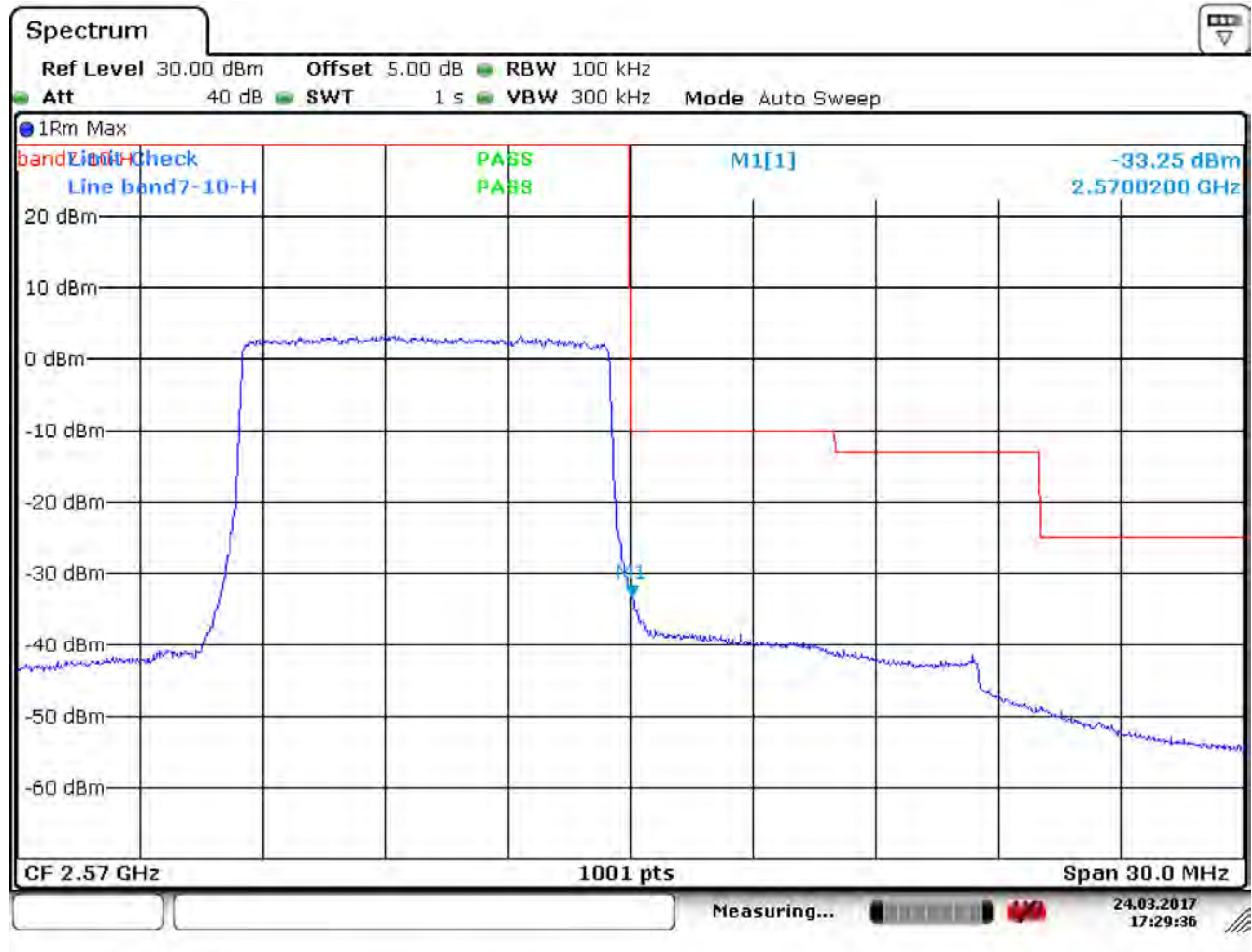
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Date: 24.MAR.2017 17:29:06

5.1.1.3.2.2 Test RB=50RB

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Date: 24.MAR.2017 17:29:37

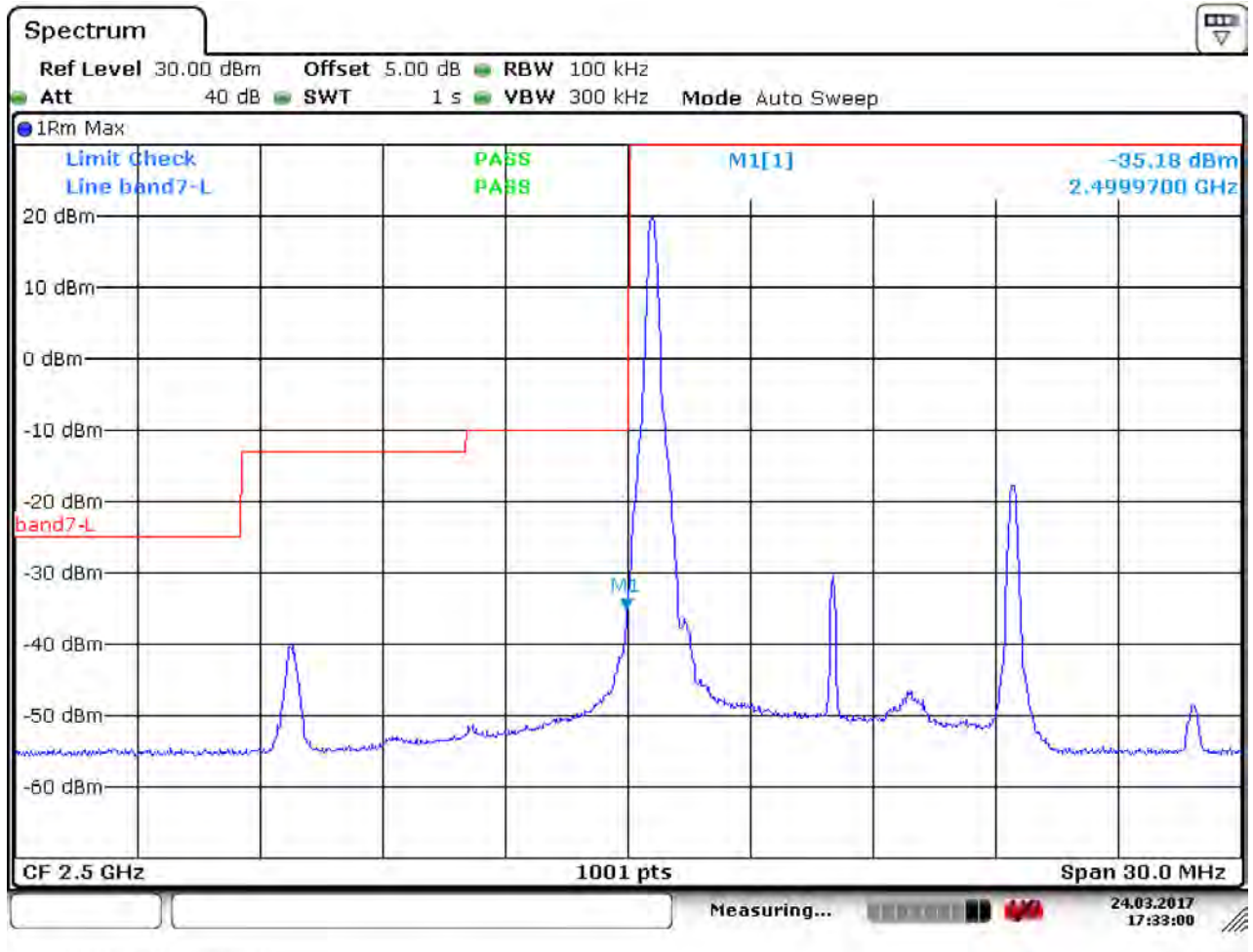
5.1.1.4 Test Mode = LTE/TM2 10MHz

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5.1.1.4.1 Test Channel = LCH

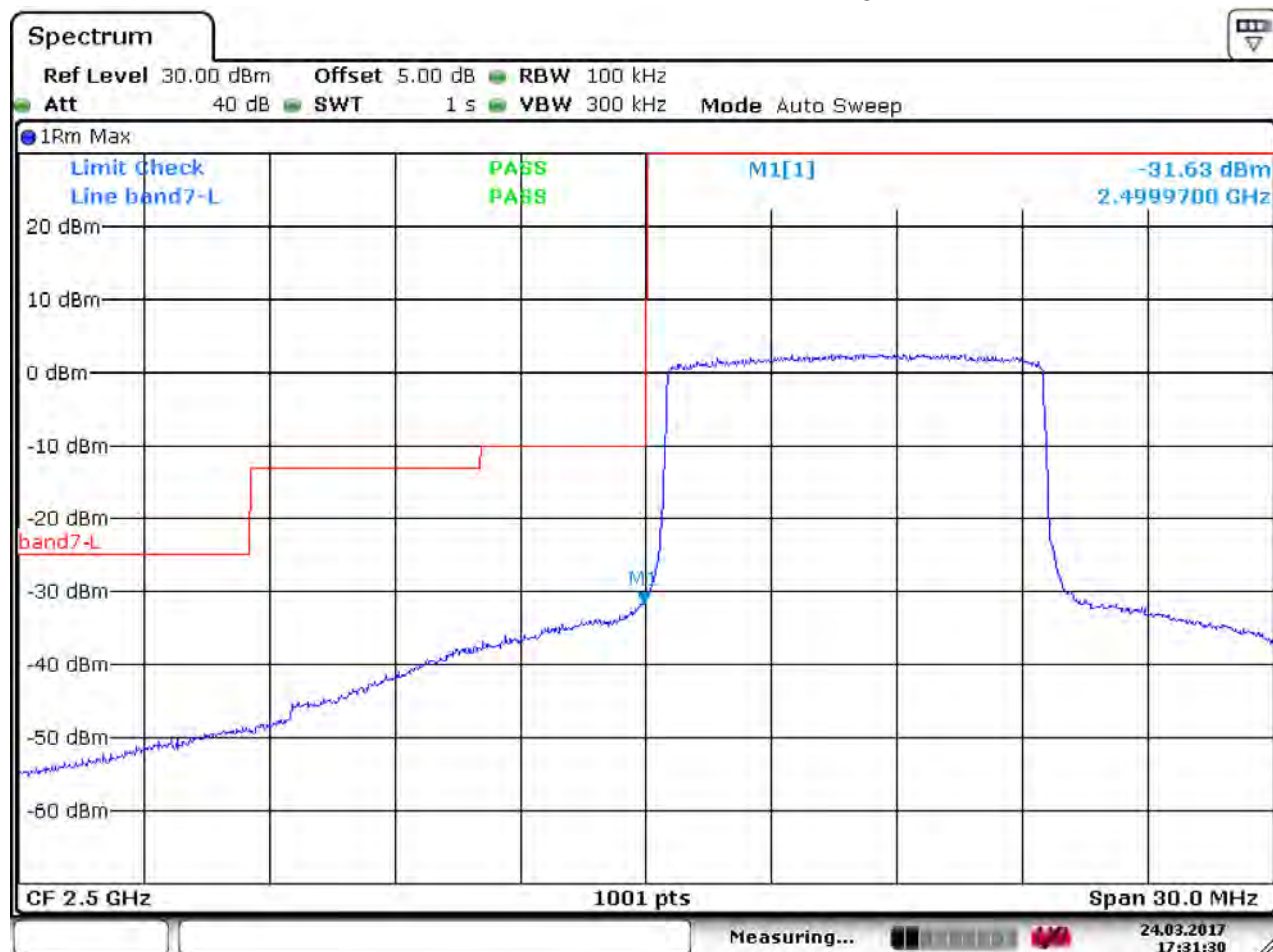
5.1.1.4.1.1 Test RB=1RB



Date: 24.MAR.2017 17:33:01

5.1.1.4.1.2 Test RB=50RB

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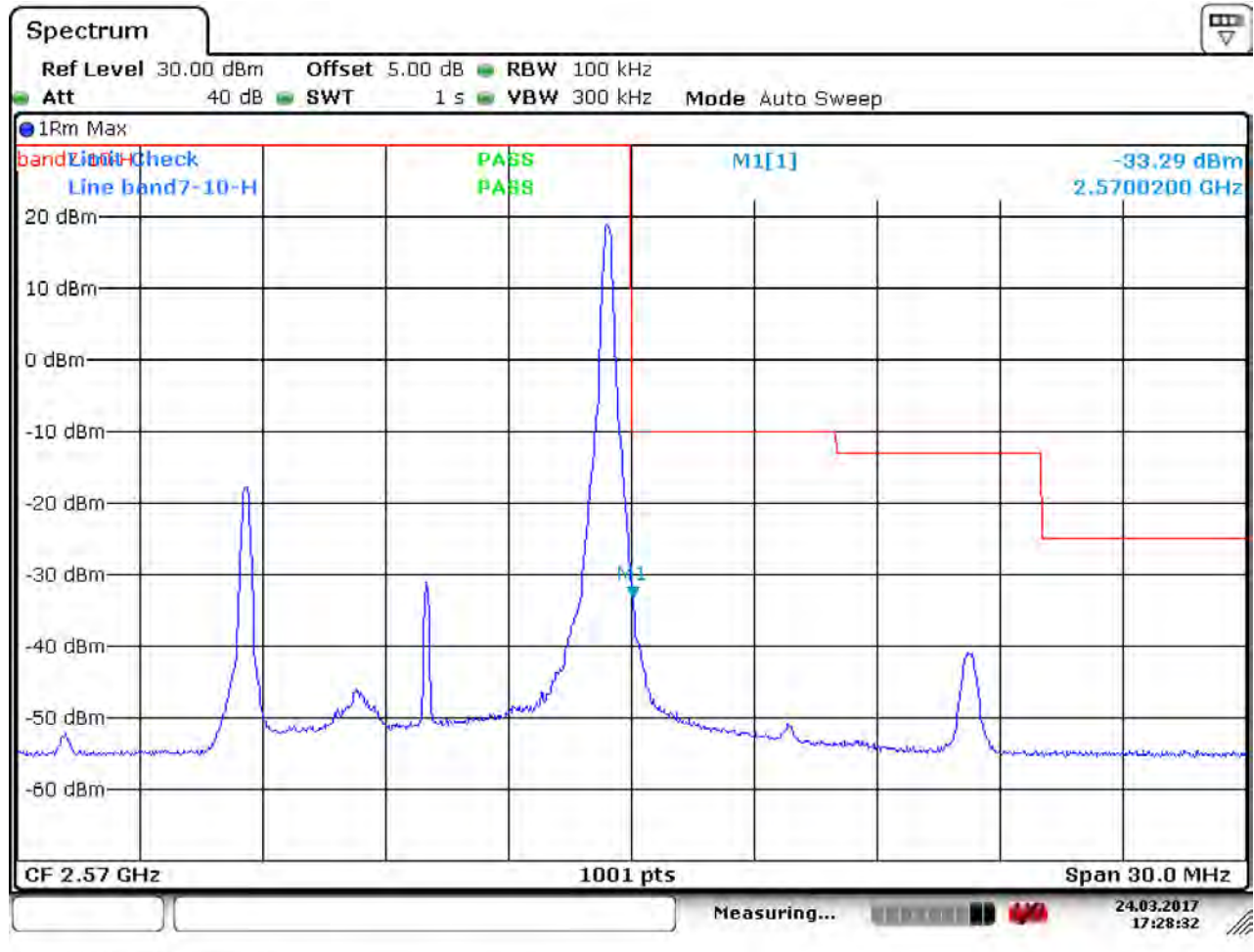


Date: 24.MAR.2017 17:31:30

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

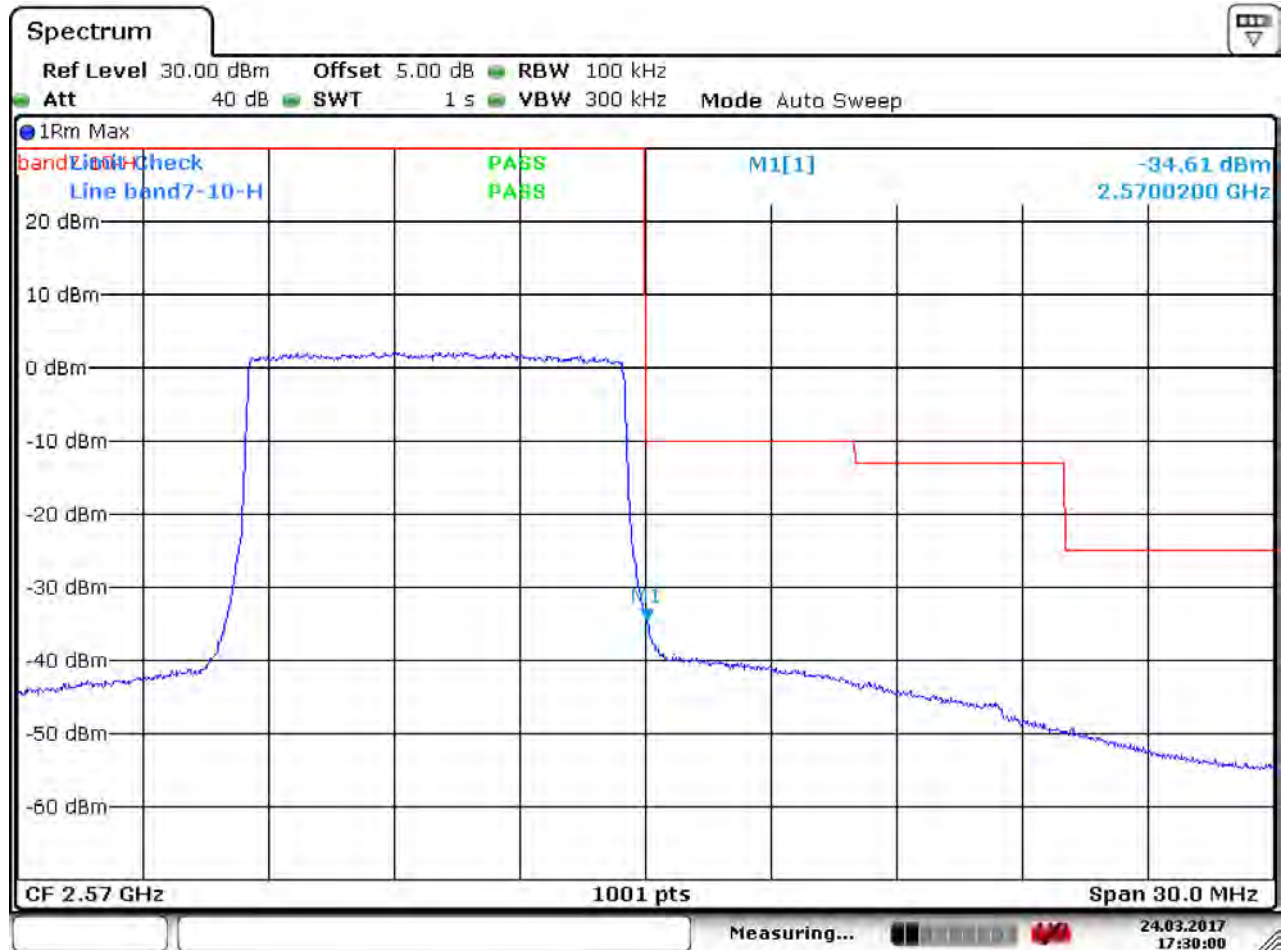
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5.1.1.4.2.2 Test RB=50RB

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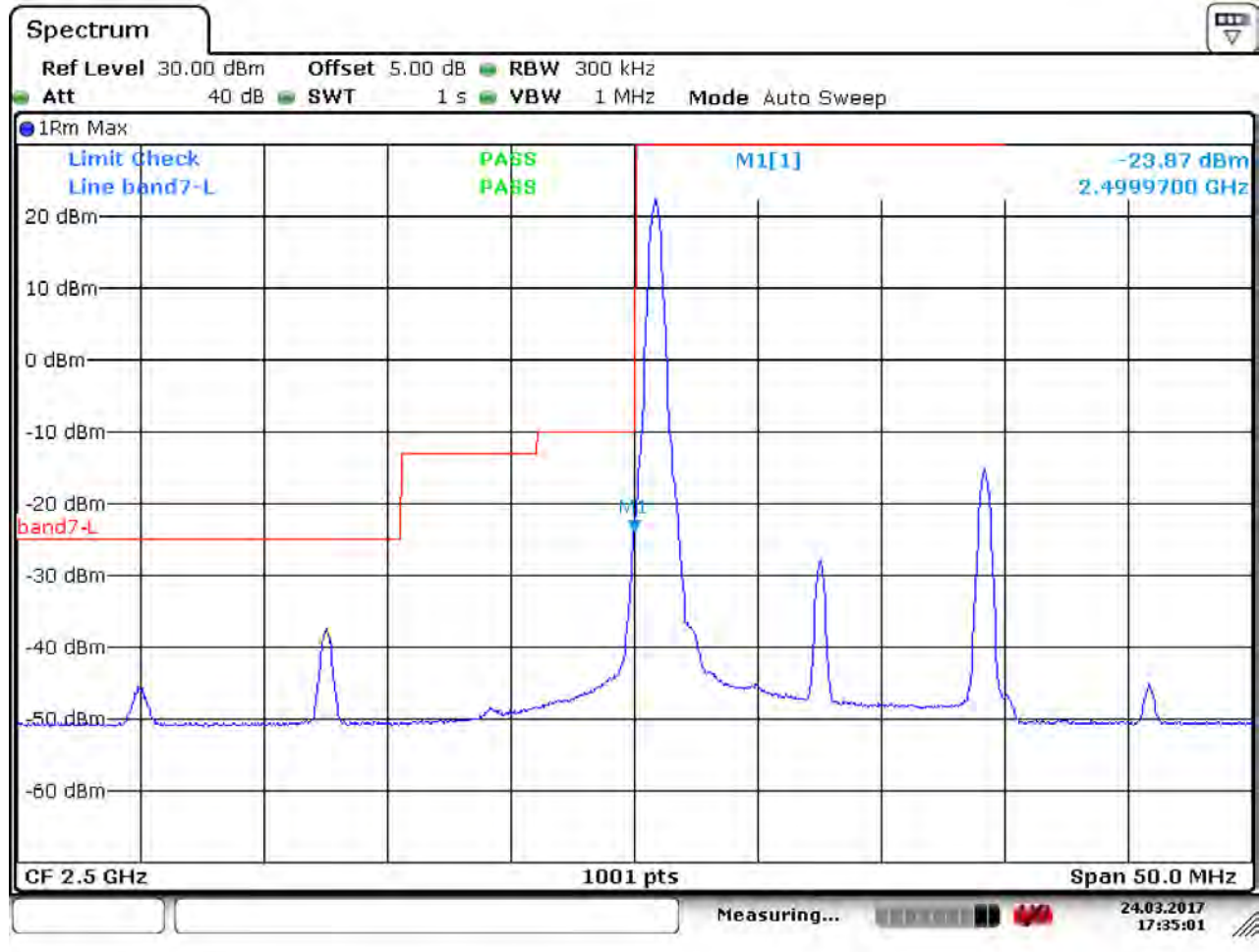
5.1.1.5 Test Mode = LTE/TM1 15MHz

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5.1.1.5.1 Test Channel = LCH

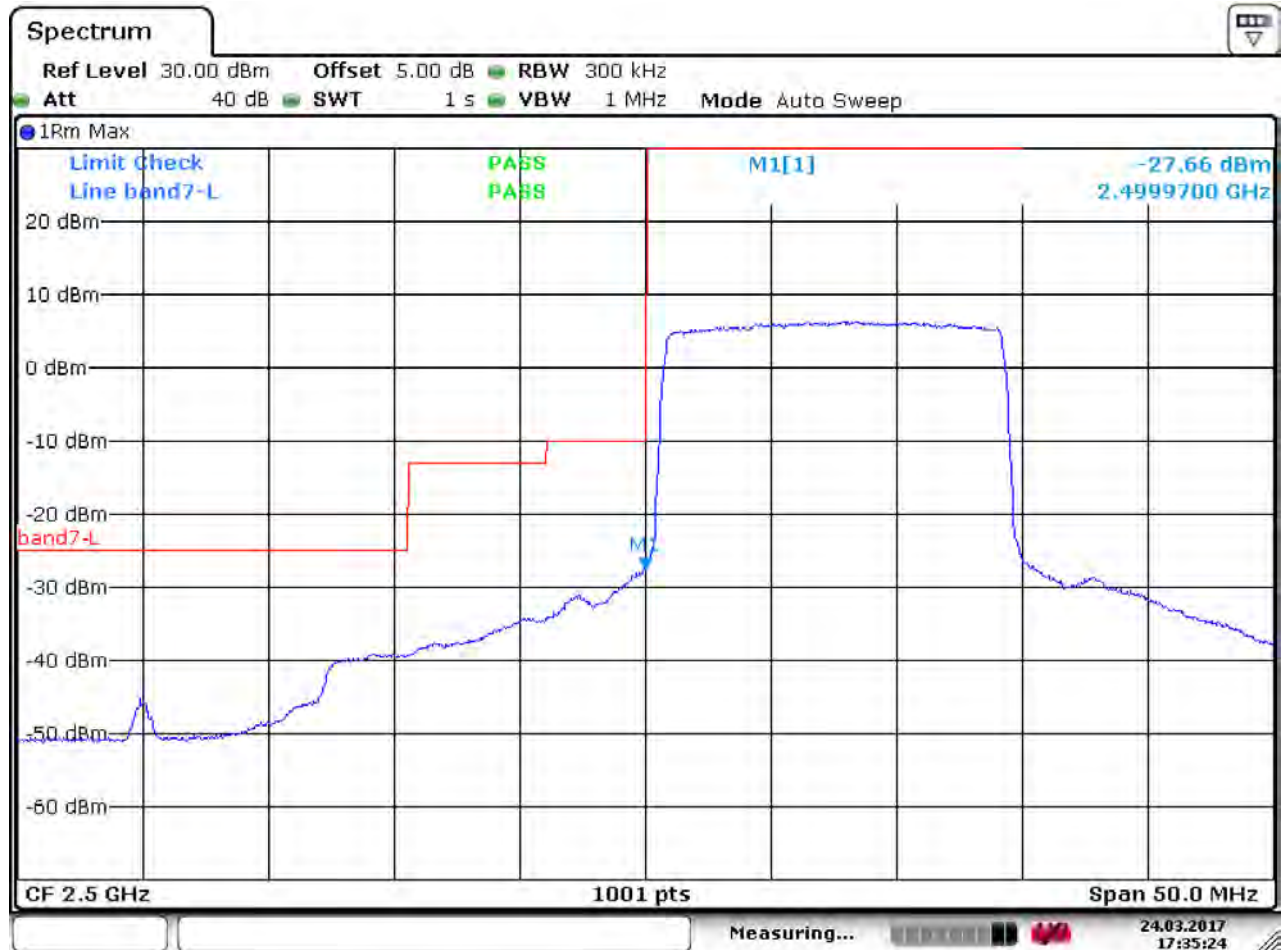
5.1.1.5.1.1 Test RB=1RB



Date: 24.MAR.2017 17:35:01

5.1.1.5.1.2 Test RB=75RB

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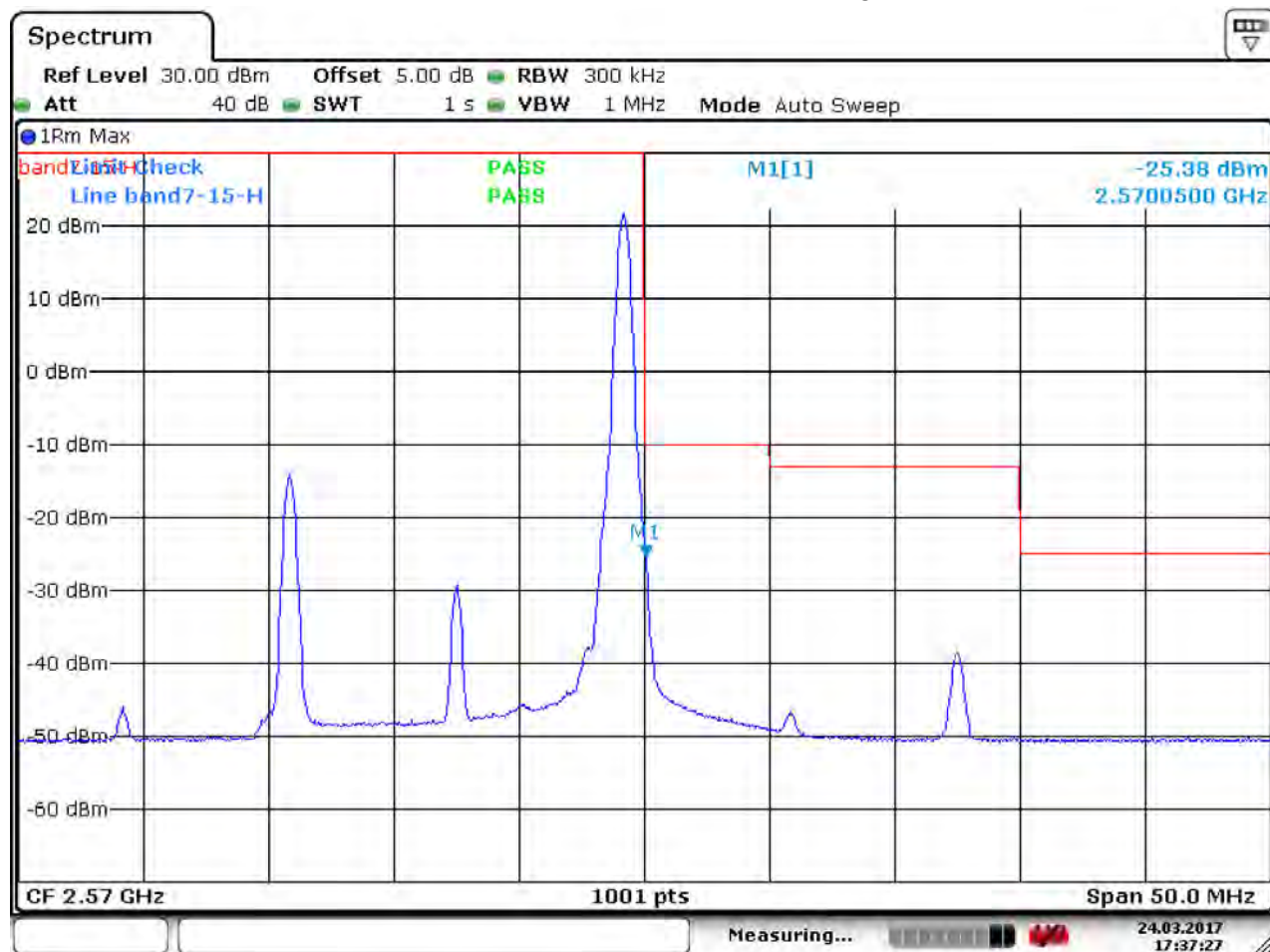


Date: 24.MAR.2017 17:35:25

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

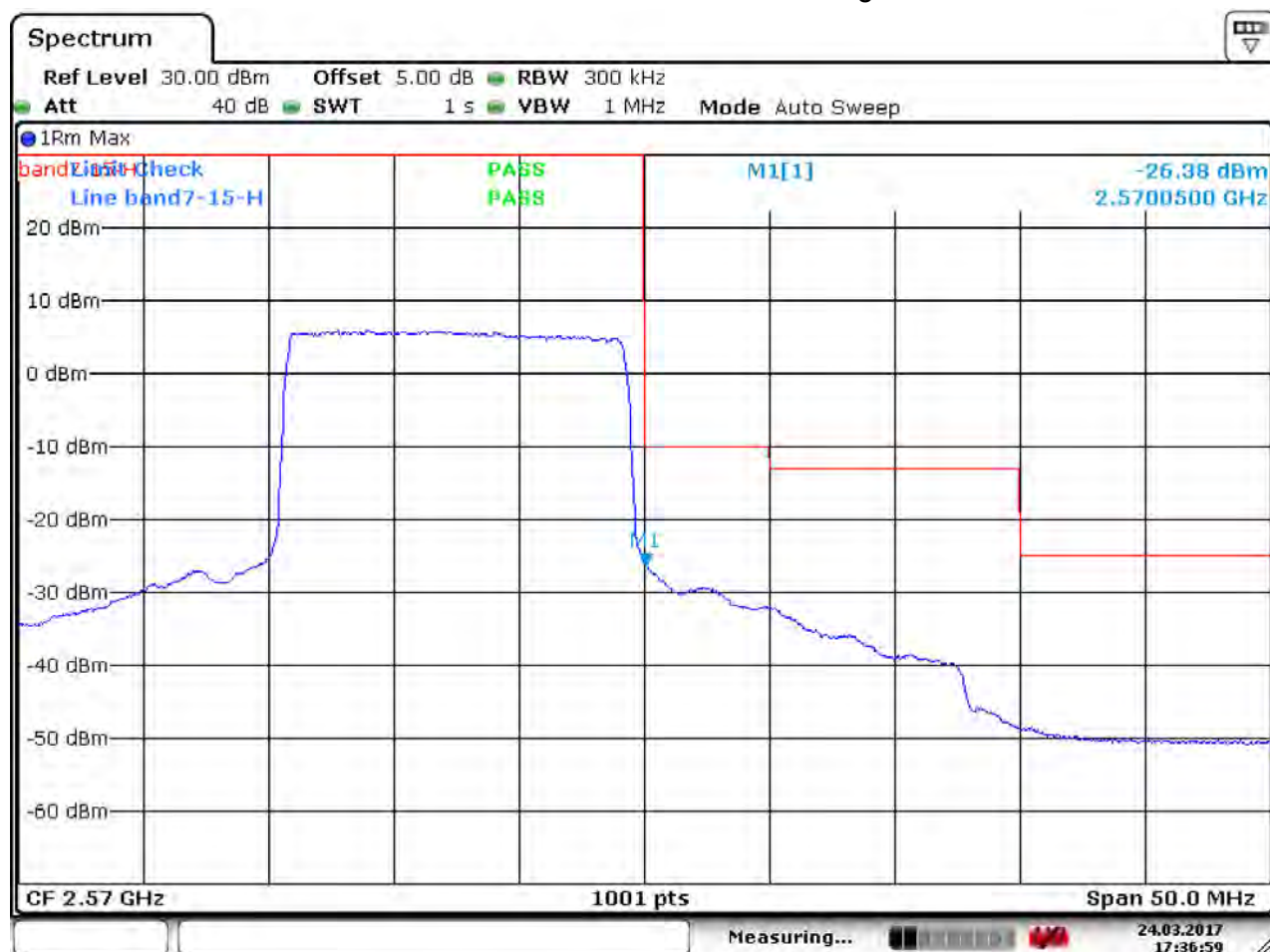
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5.1.1.5.2.2 Test RB=75RB

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Date: 24.MAR.2017 17:36:59

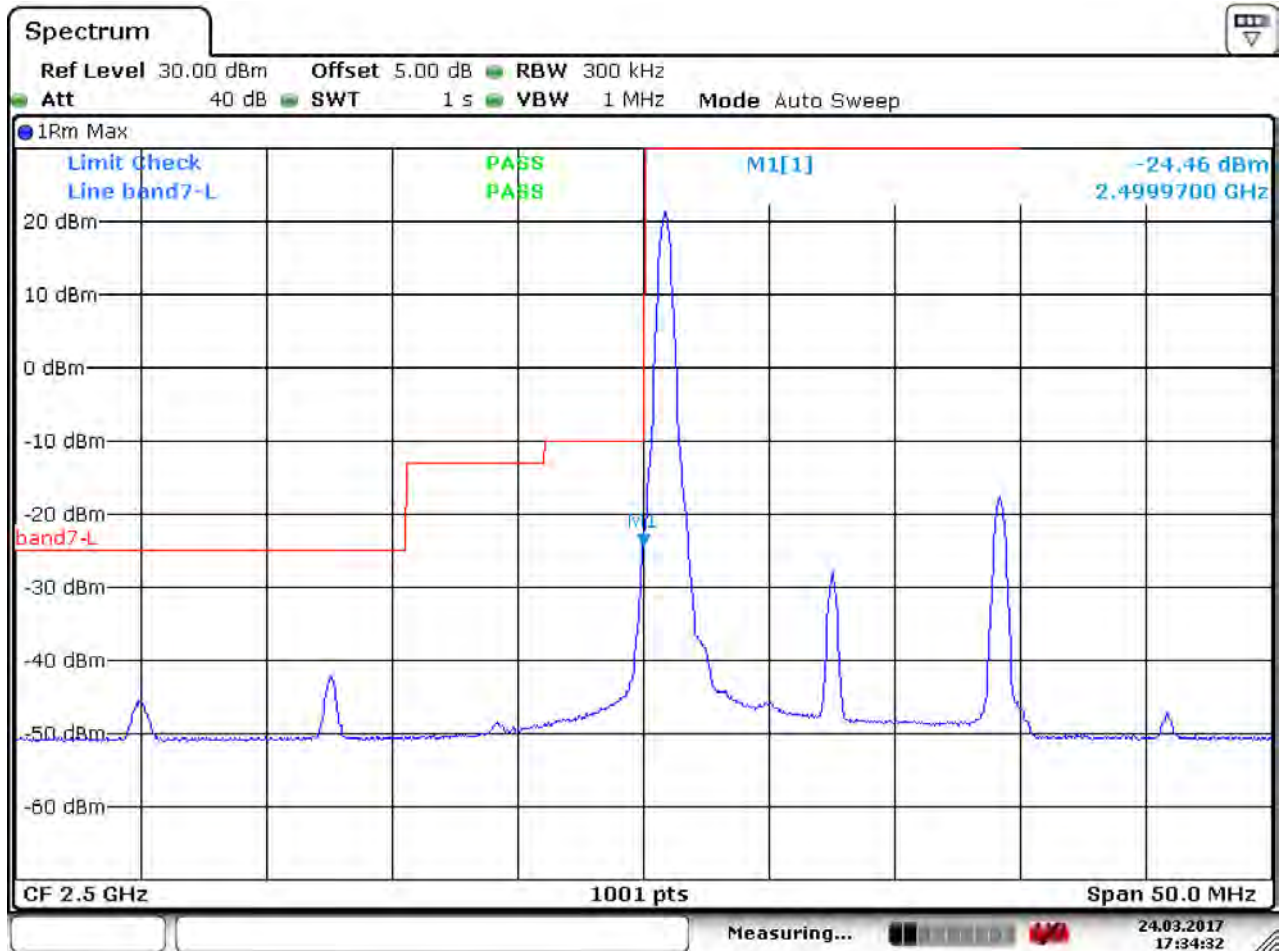
5.1.1.6 Test Mode = LTE/TM2 15MHz

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5.1.1.6.1 Test Channel = LCH

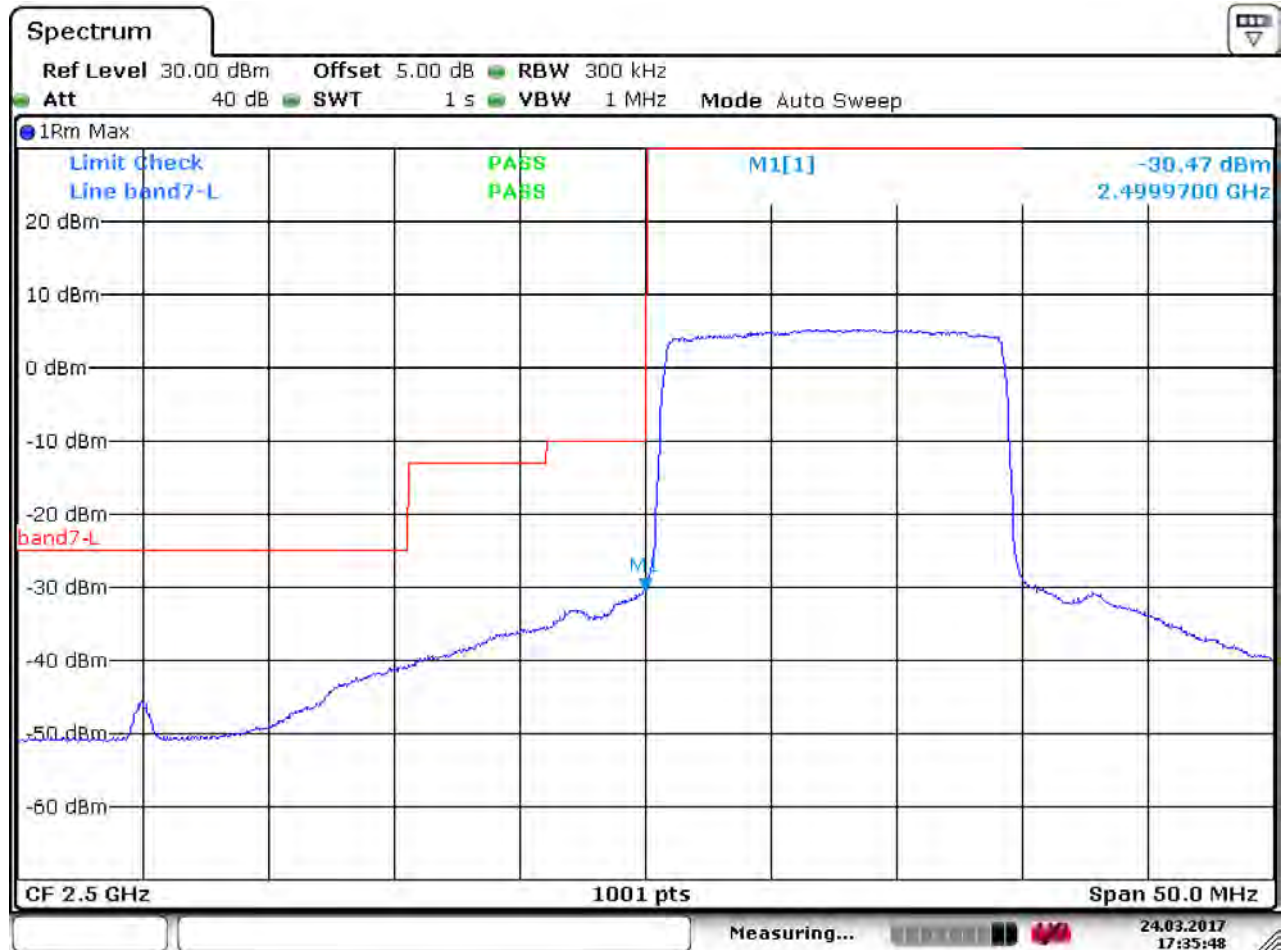
5.1.1.6.1.1 Test RB=1RB



Date: 24. MAR. 2017 17:34:32

5.1.1.6.1.2 Test RB=75RB

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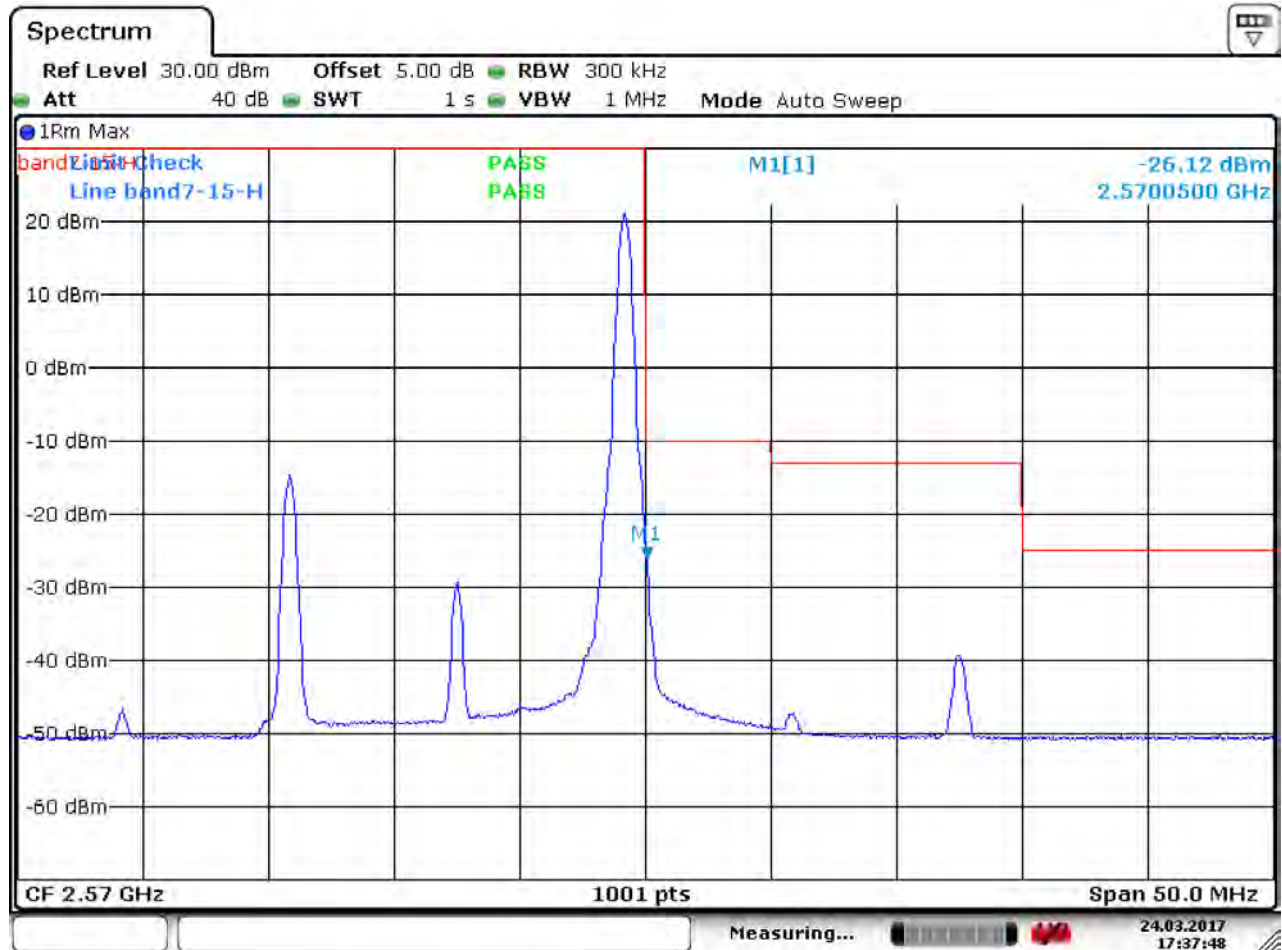


Date: 24.MAR.2017 17:35:48

5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB

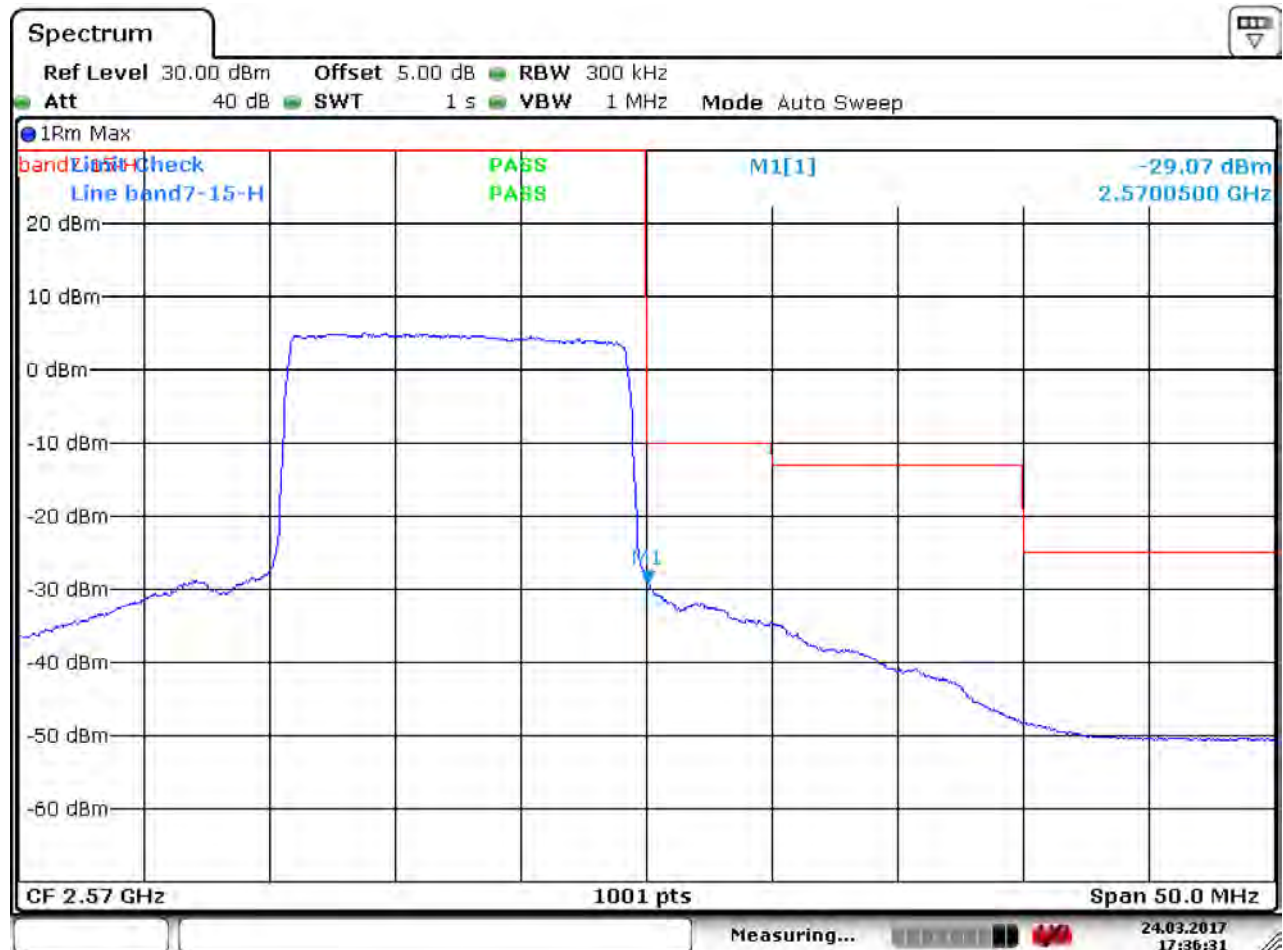
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5.1.1.6.2.2 Test RB=75RB

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Date: 24.MAR.2017 17:36:31

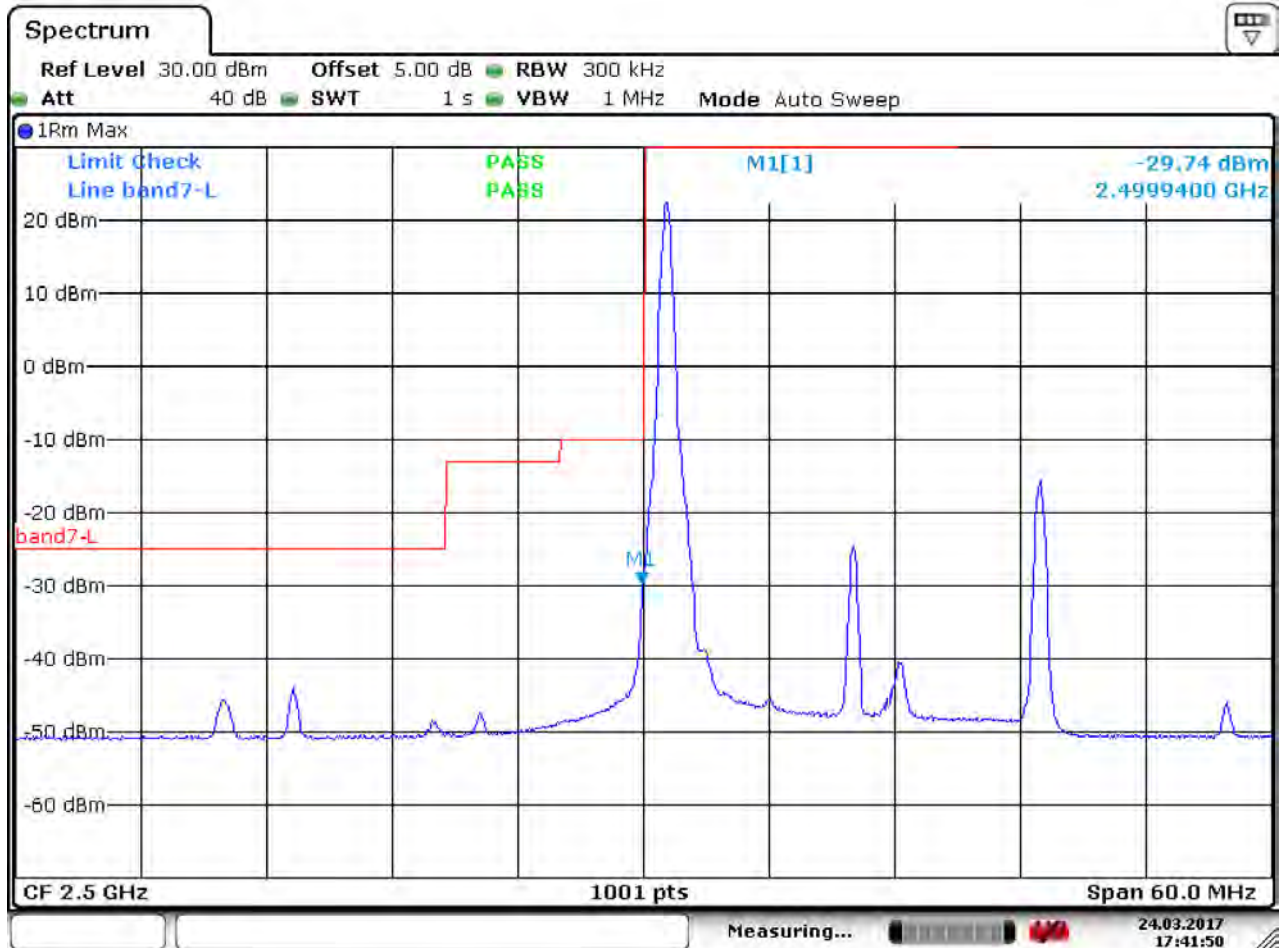
5.1.1.7 Test Mode = LTE/TM1 20MHz

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5.1.1.7.1 Test Channel = LCH

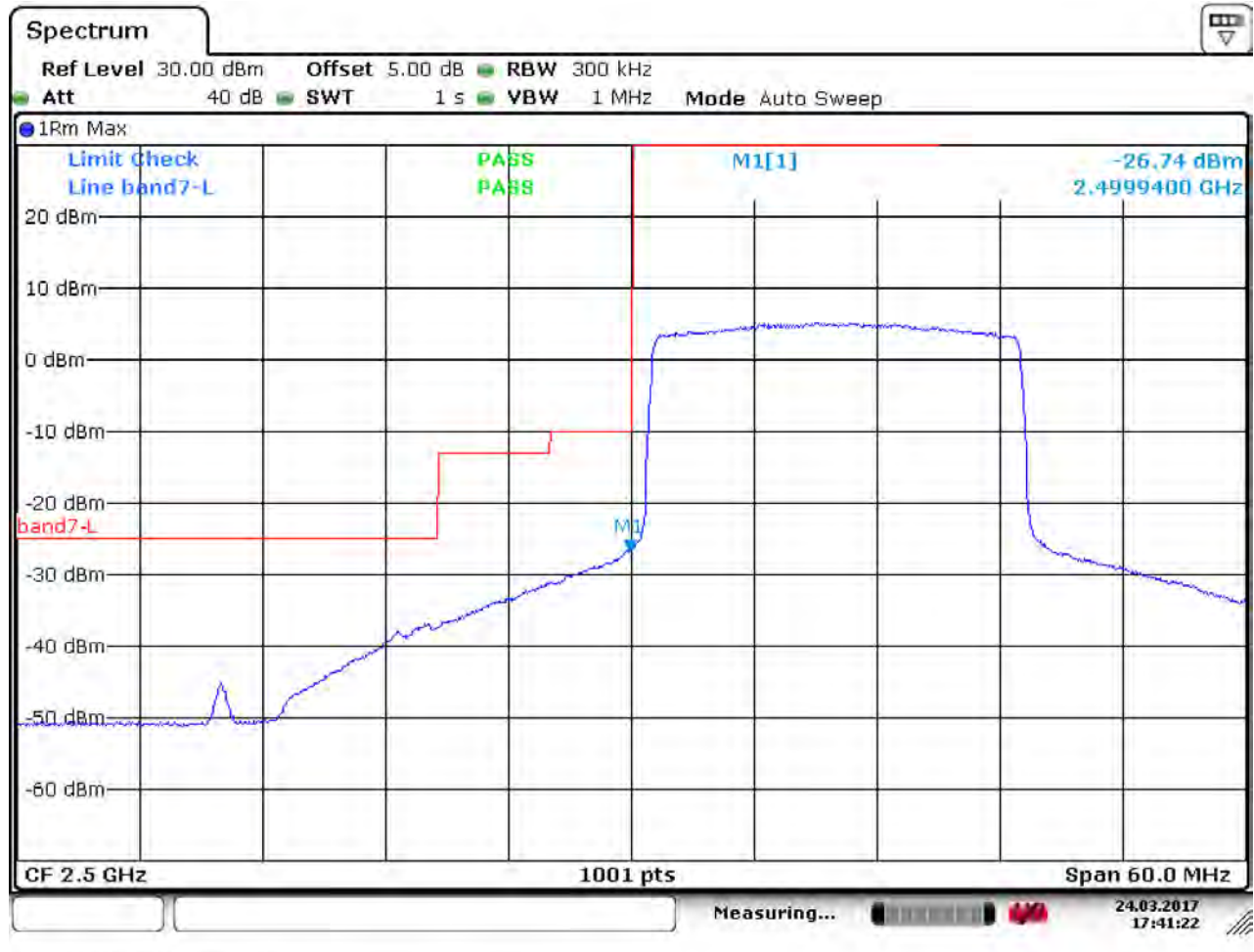
5.1.1.7.1.1 Test RB=1RB



Date: 24.MAR.2017 17:41:50

5.1.1.7.1.2 Test RB=100RB

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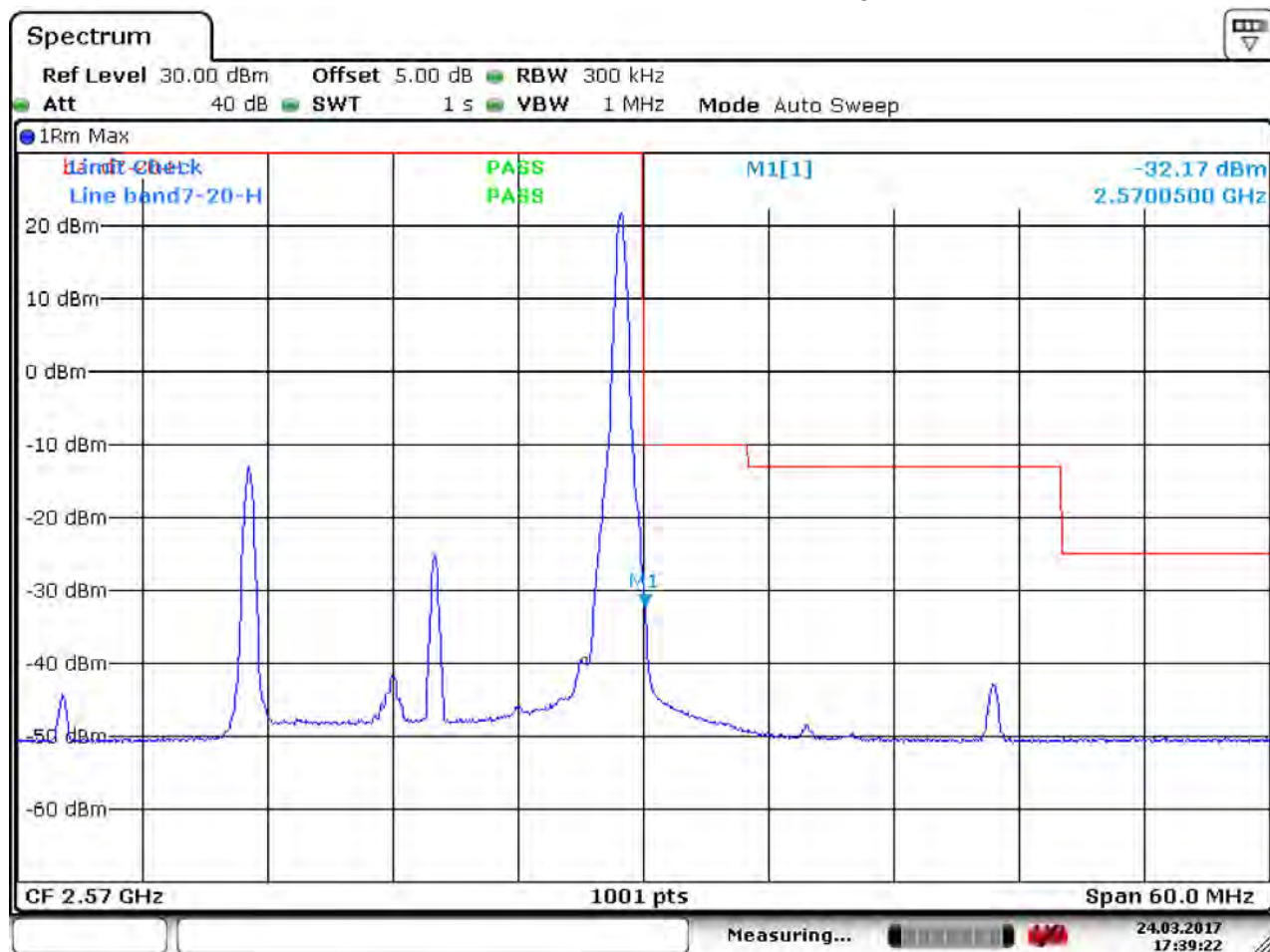


Date: 24.MAR.2017 17:41:22

5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

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5.1.1.7.2.2 Test RB=100RB

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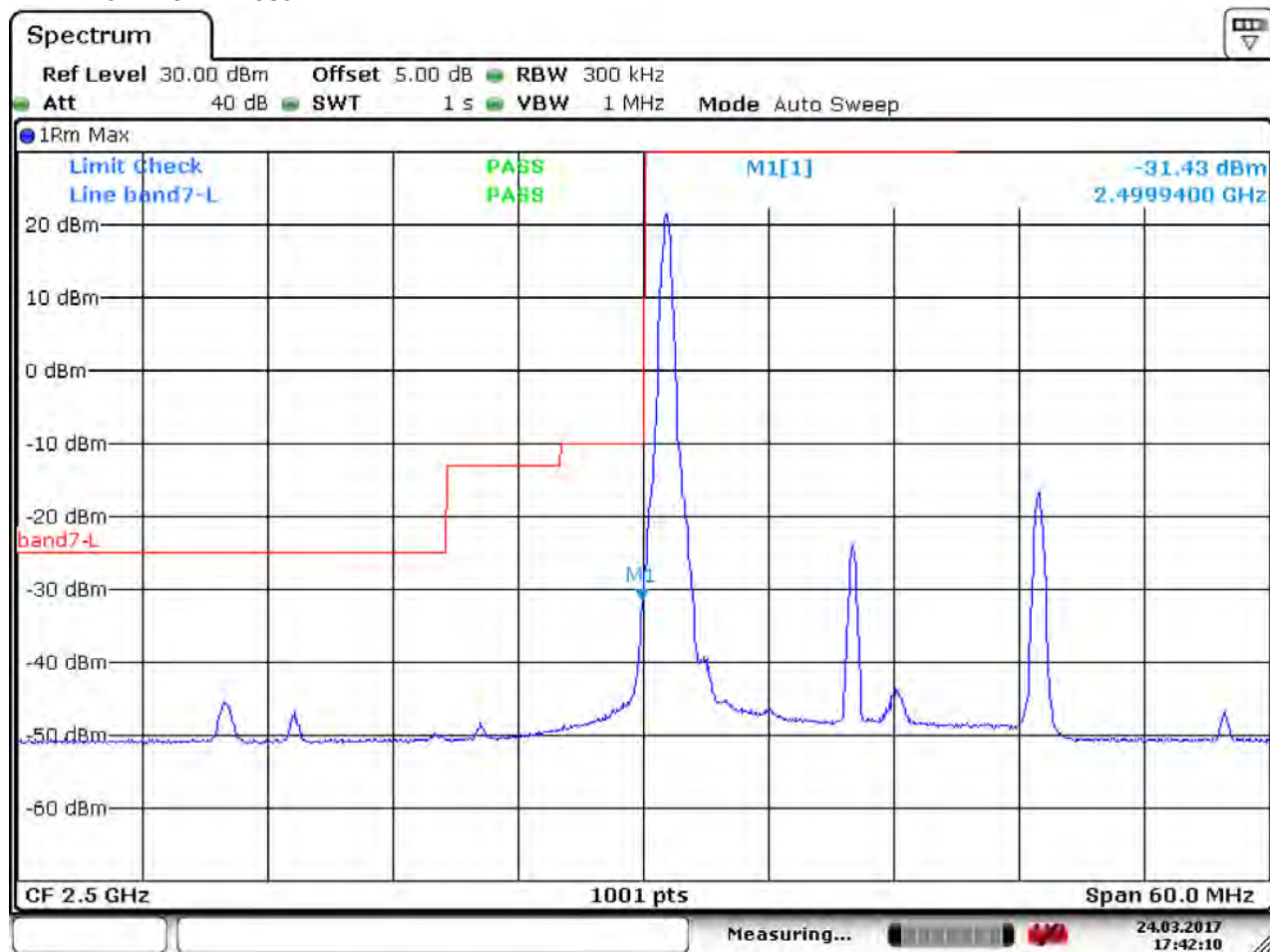
5.1.1.8 Test Mode = LTE/TM2 20MHz

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5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



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5.1.1.8.1.2 Test RB=100RB

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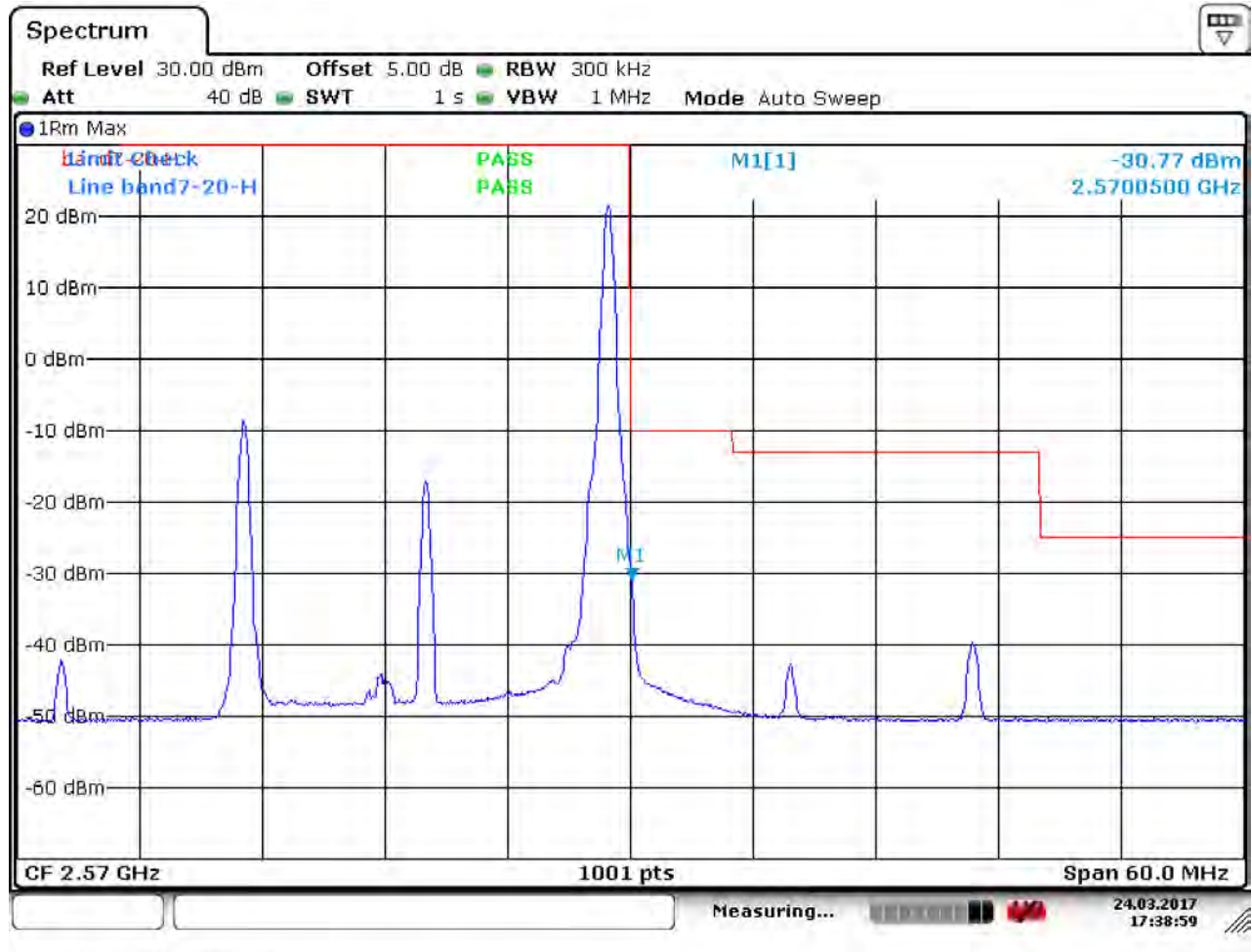


Date: 24.MAR.2017 17:40:59

5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB

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5.1.1.8.2.2 Test RB=100RB

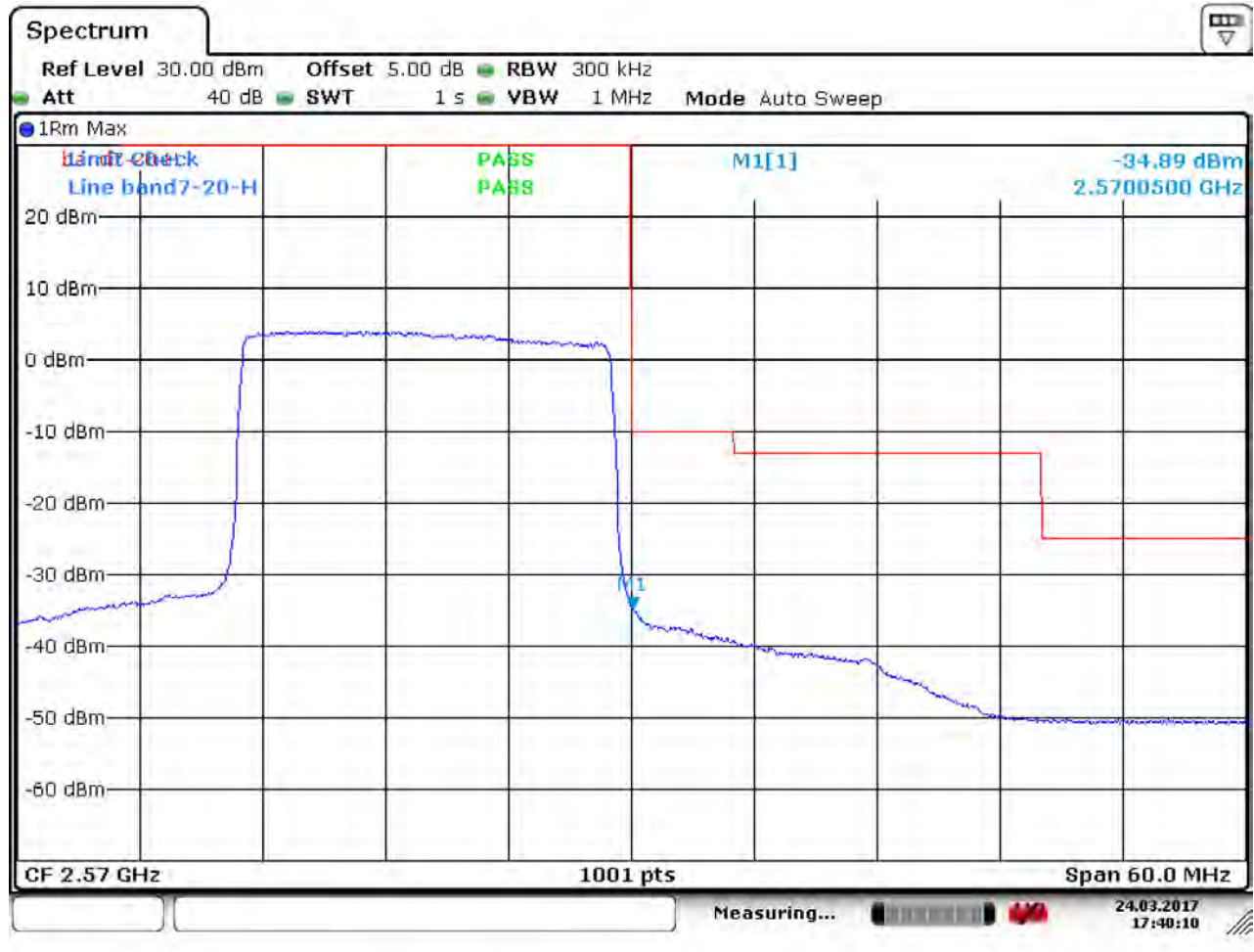
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Shenzhen Branch

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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.

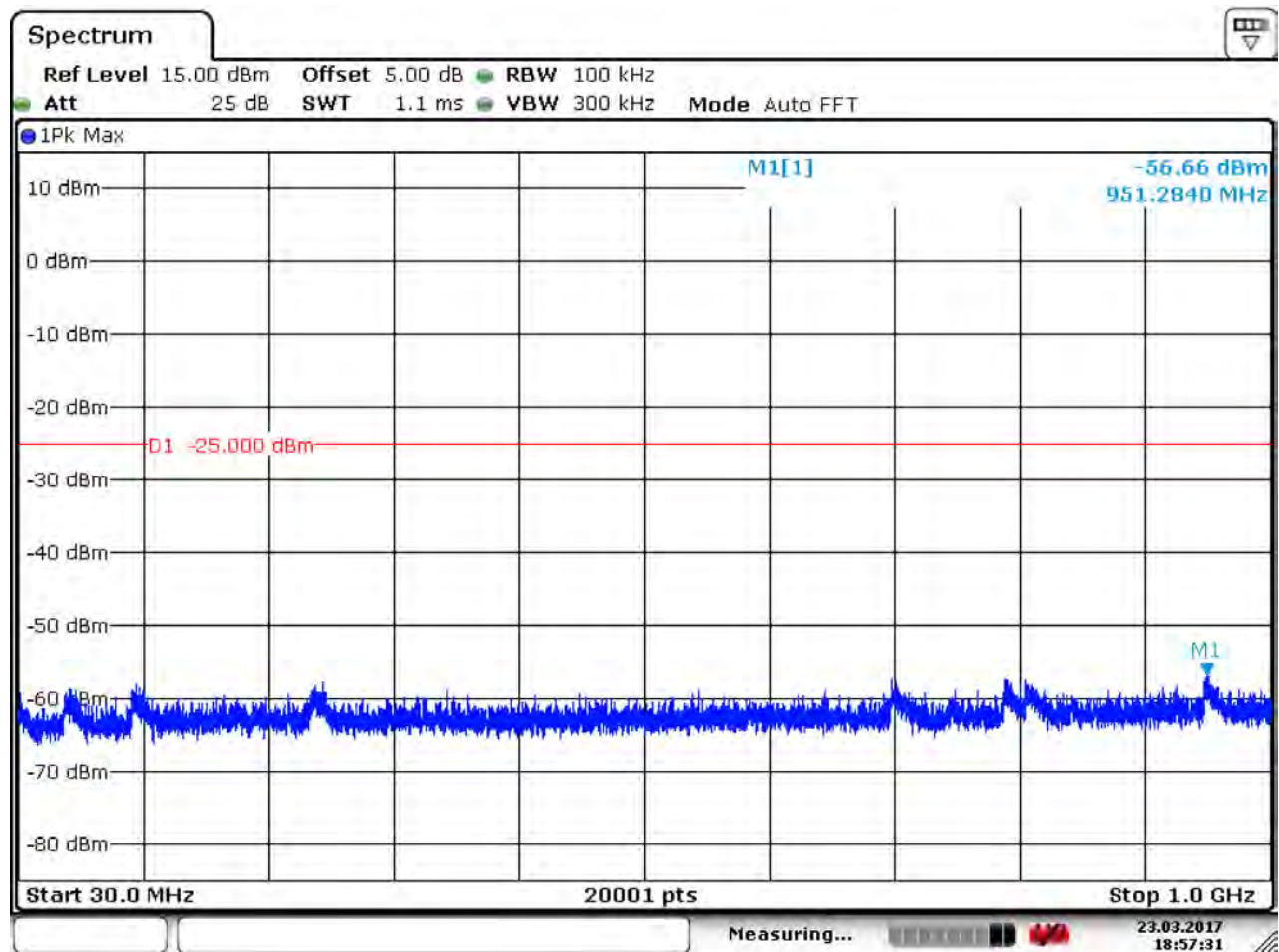
Part I - Test Plots

6.1 For LTE

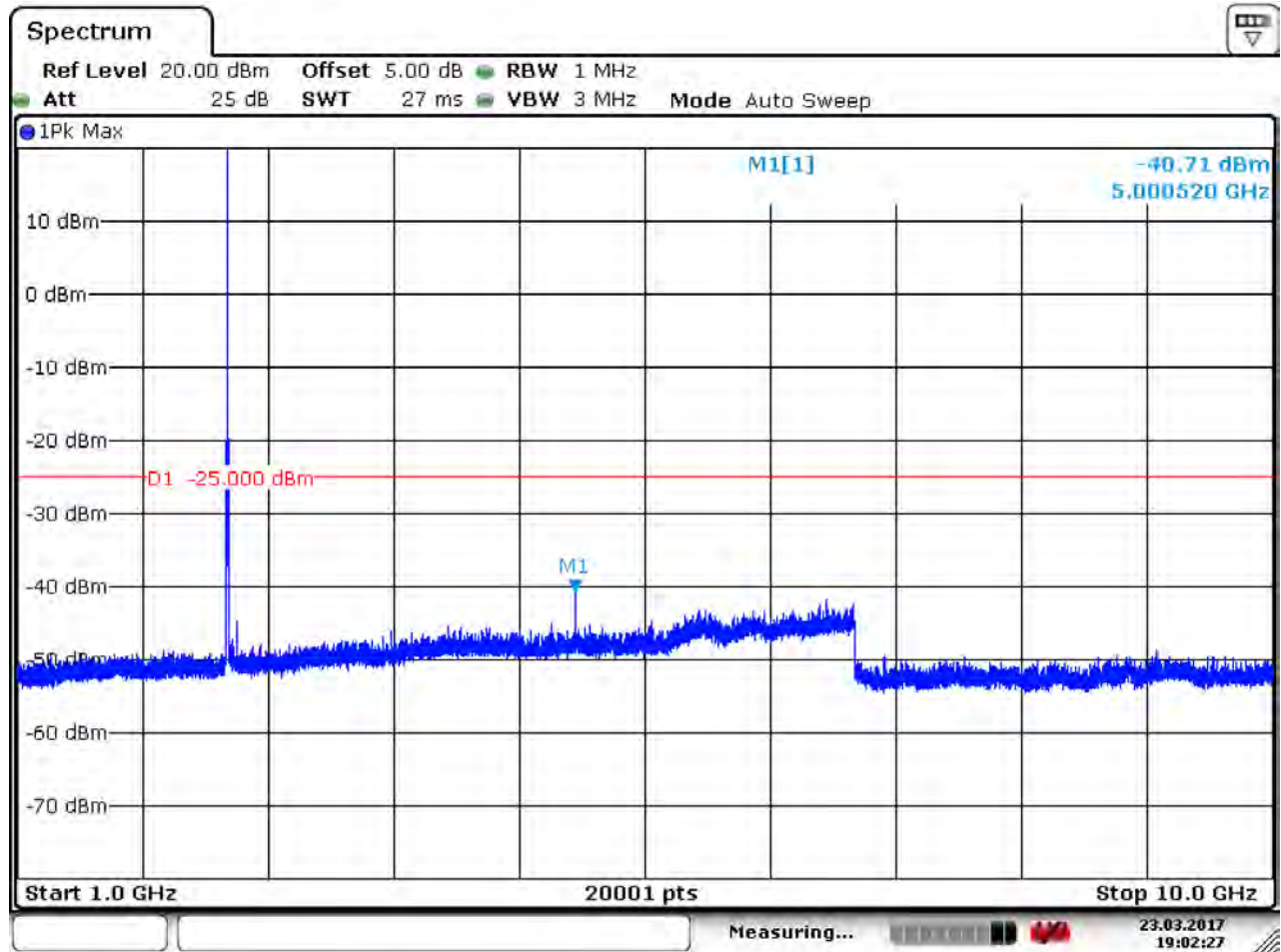
6.1.1 Test Band = LTE band7

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

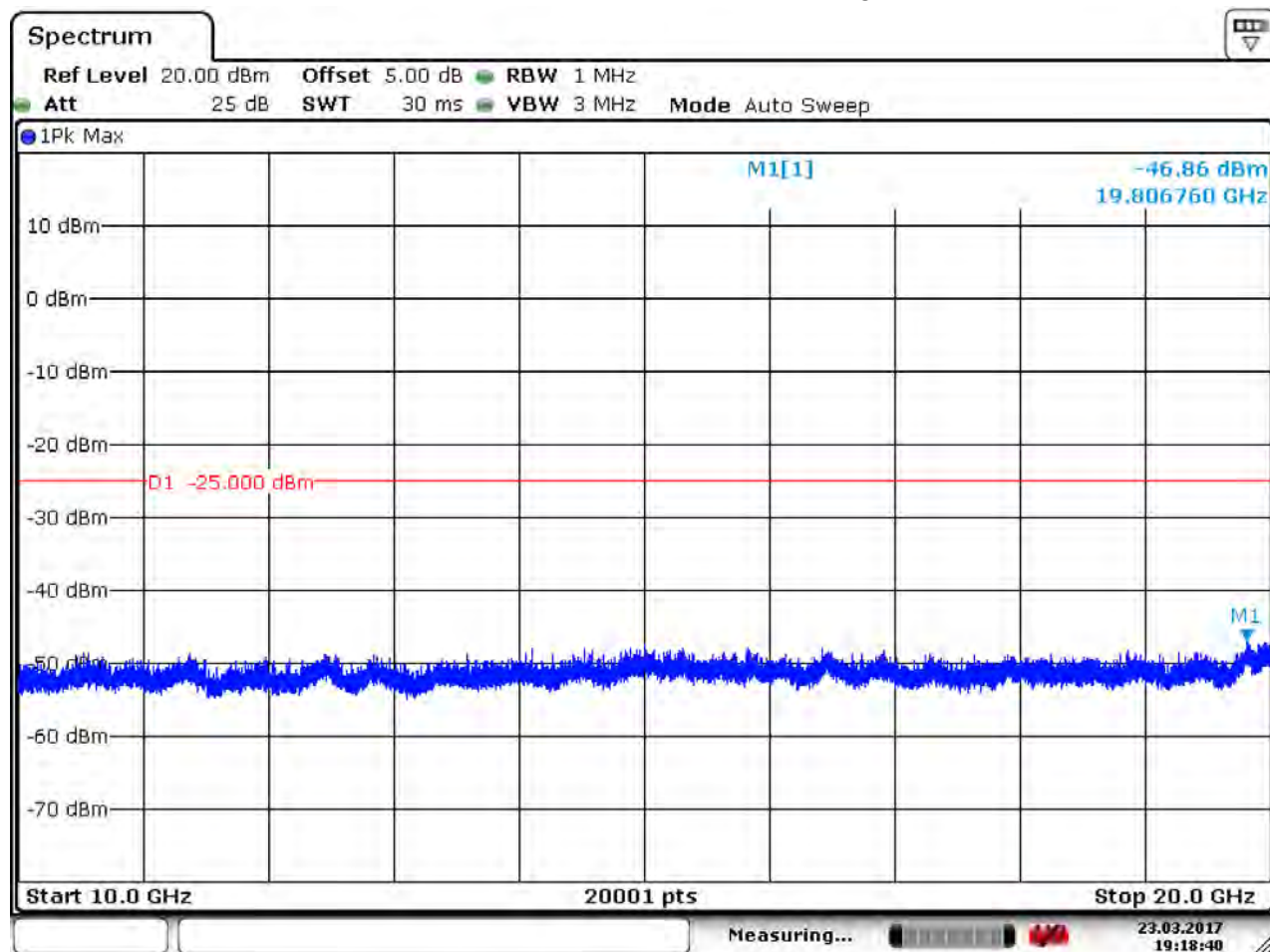
6.1.1.1.1 Test Channel = LCH



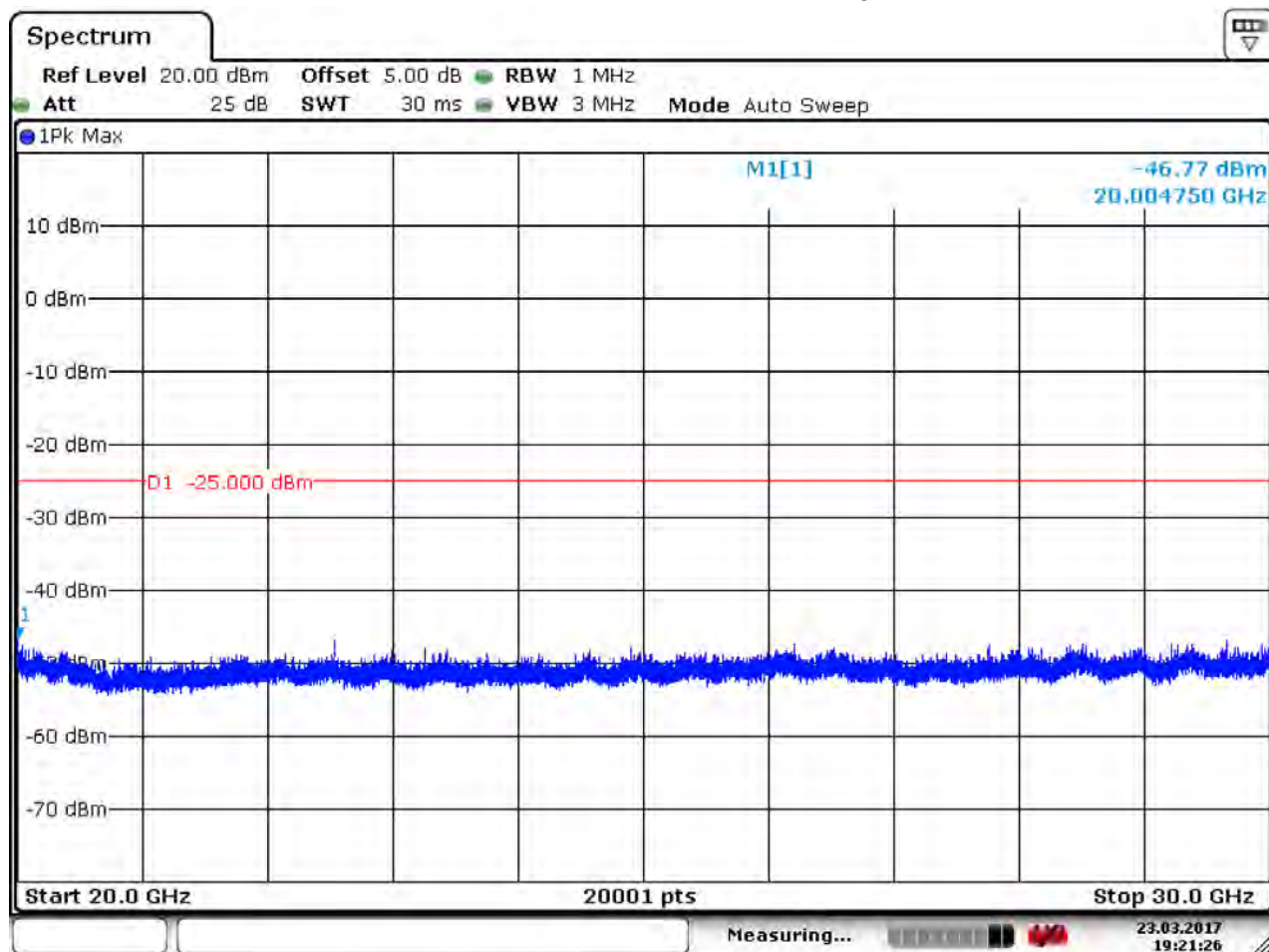
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Date: 23.MAR.2017 19:02:27



Date: 23.MAR.2017 19:18:41



Date: 23.MAR.2017 19:21:27

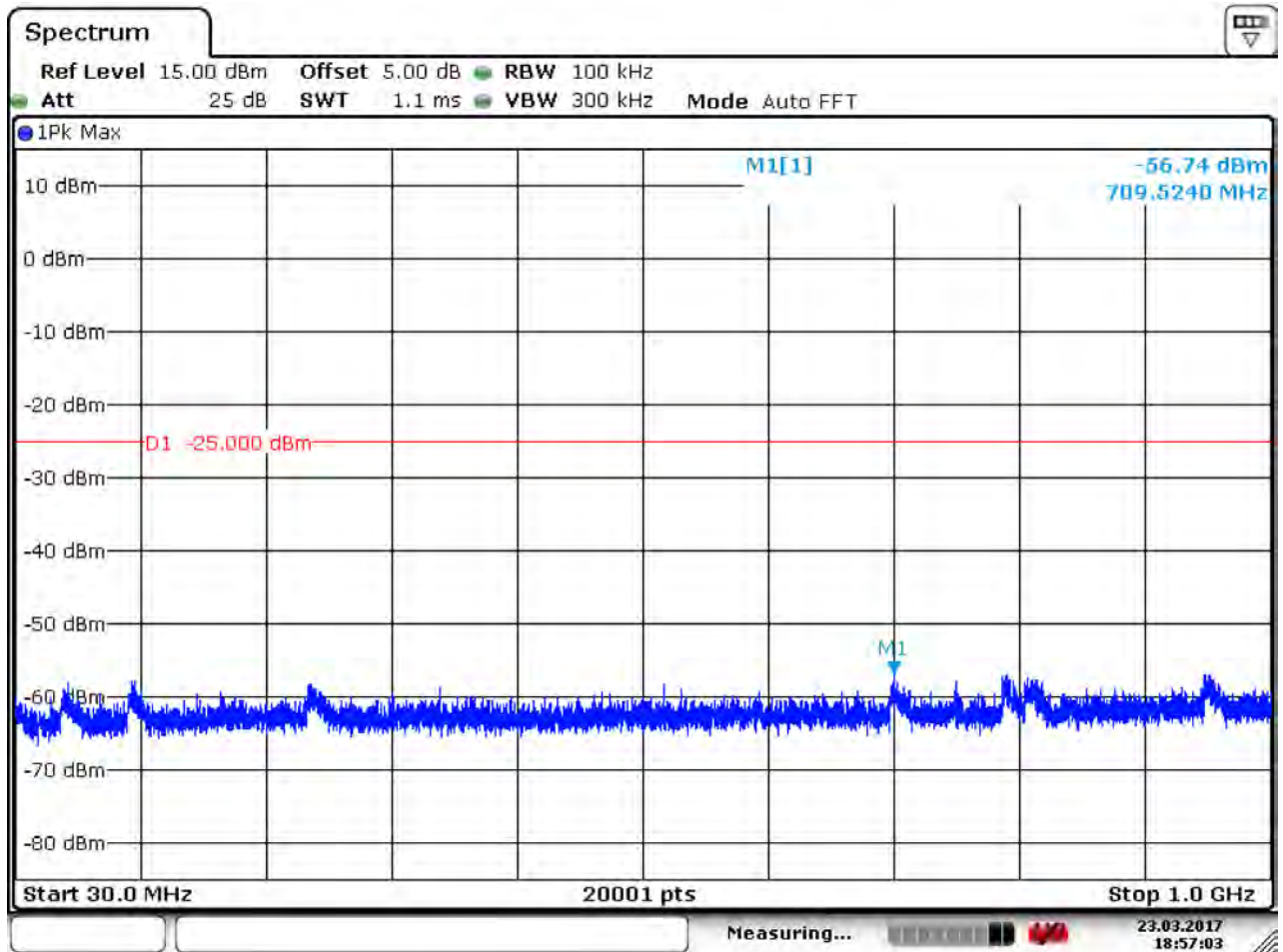


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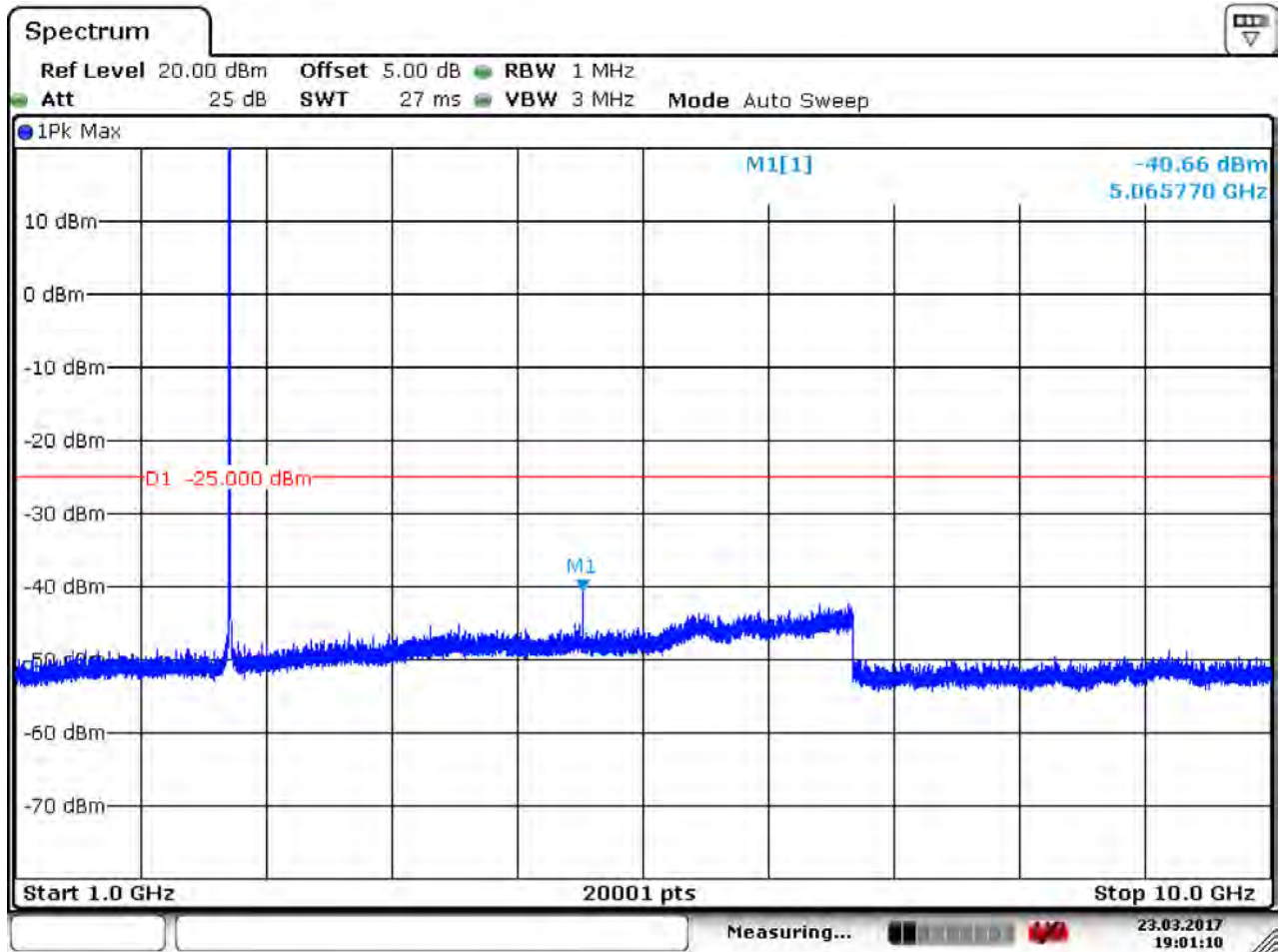
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6.1.1.1.2 Test Channel = MCH

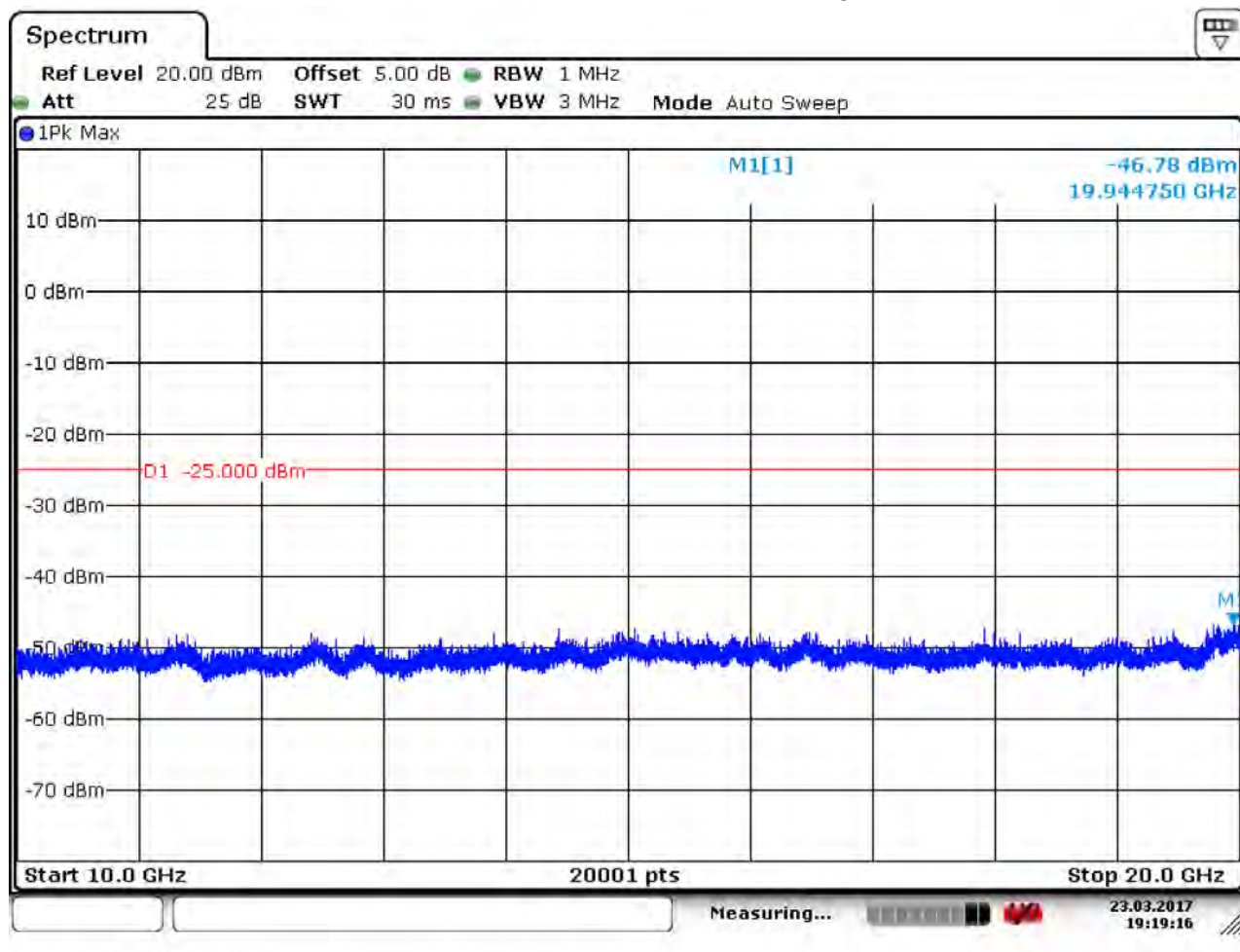


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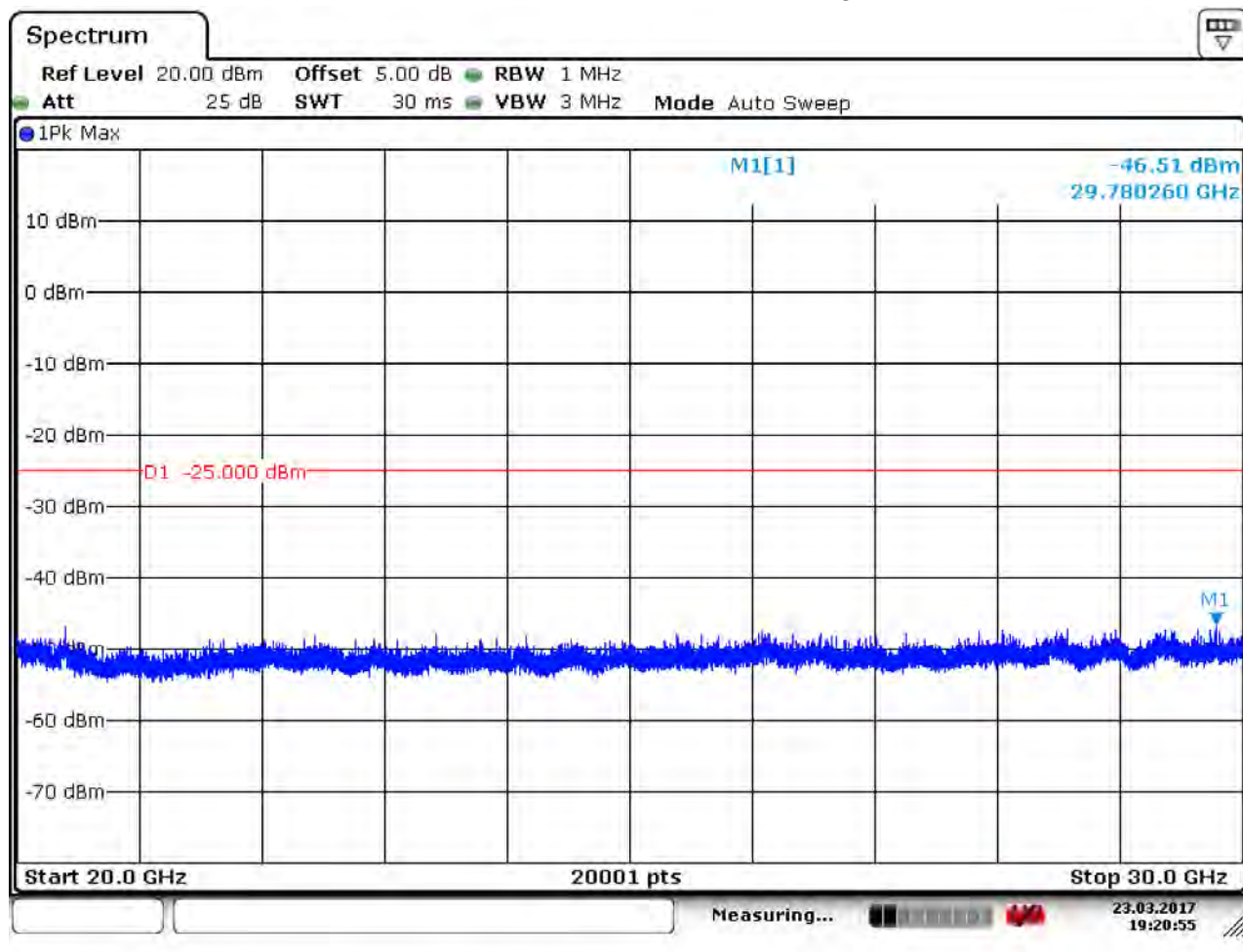
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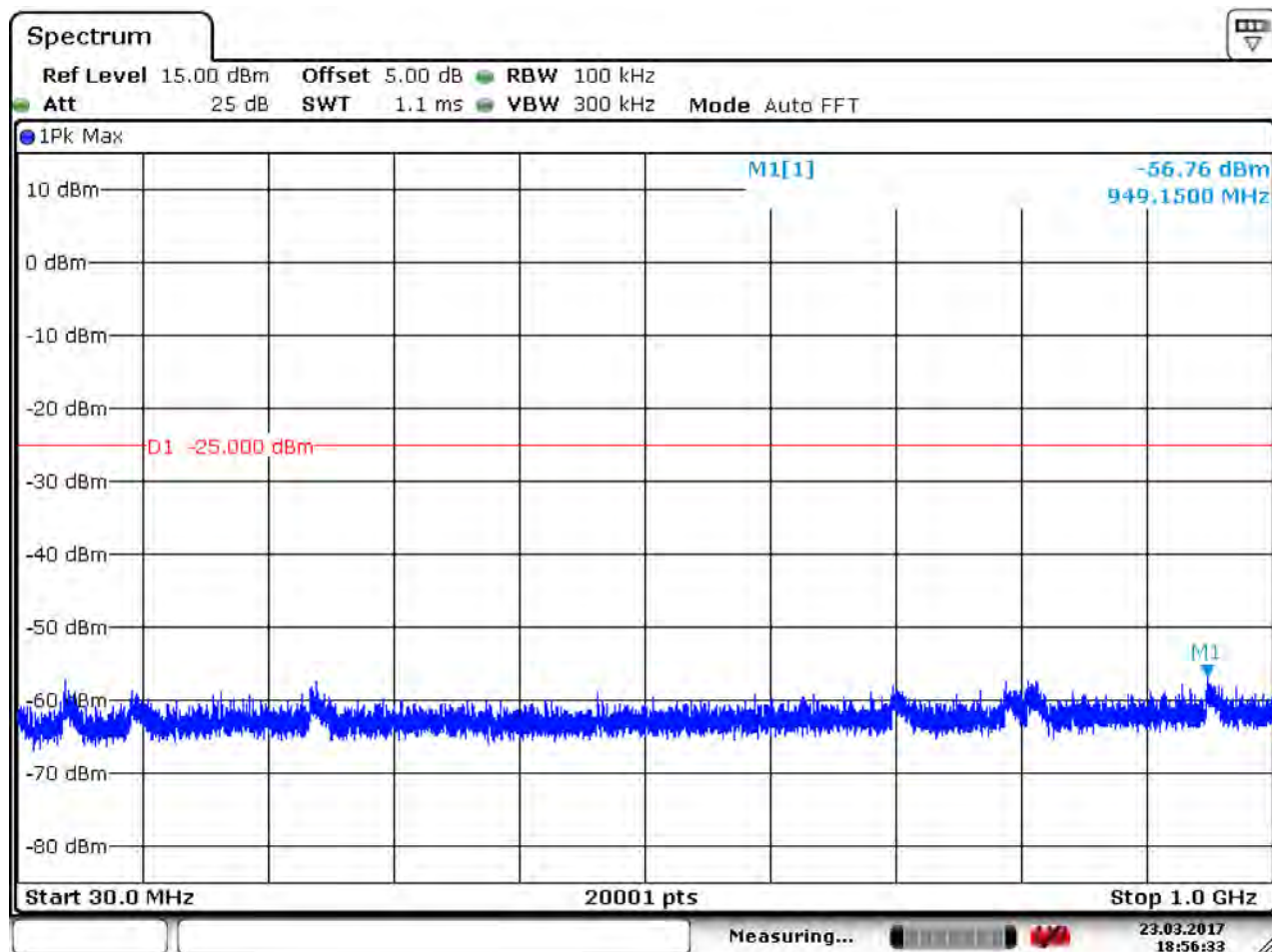
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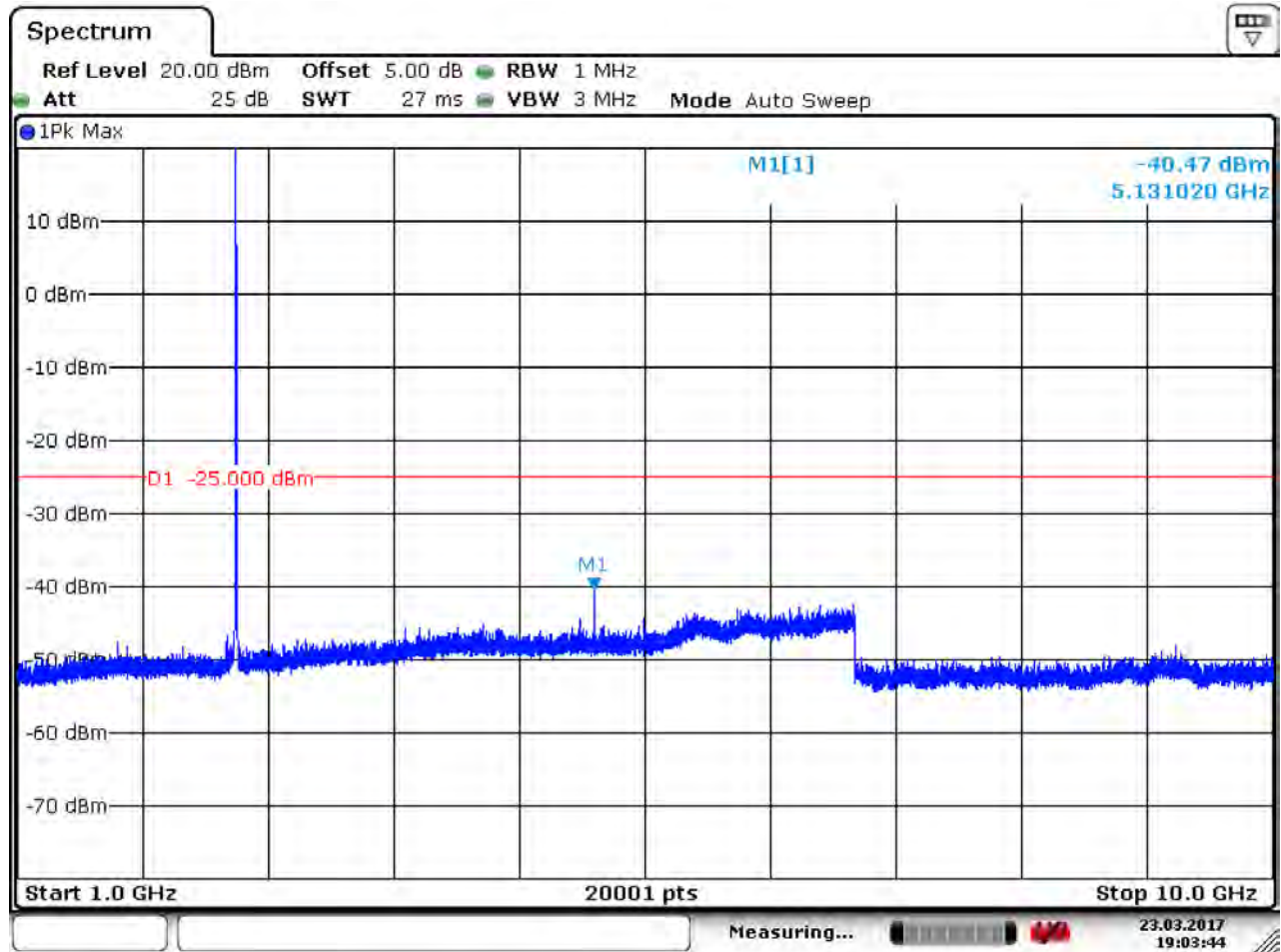
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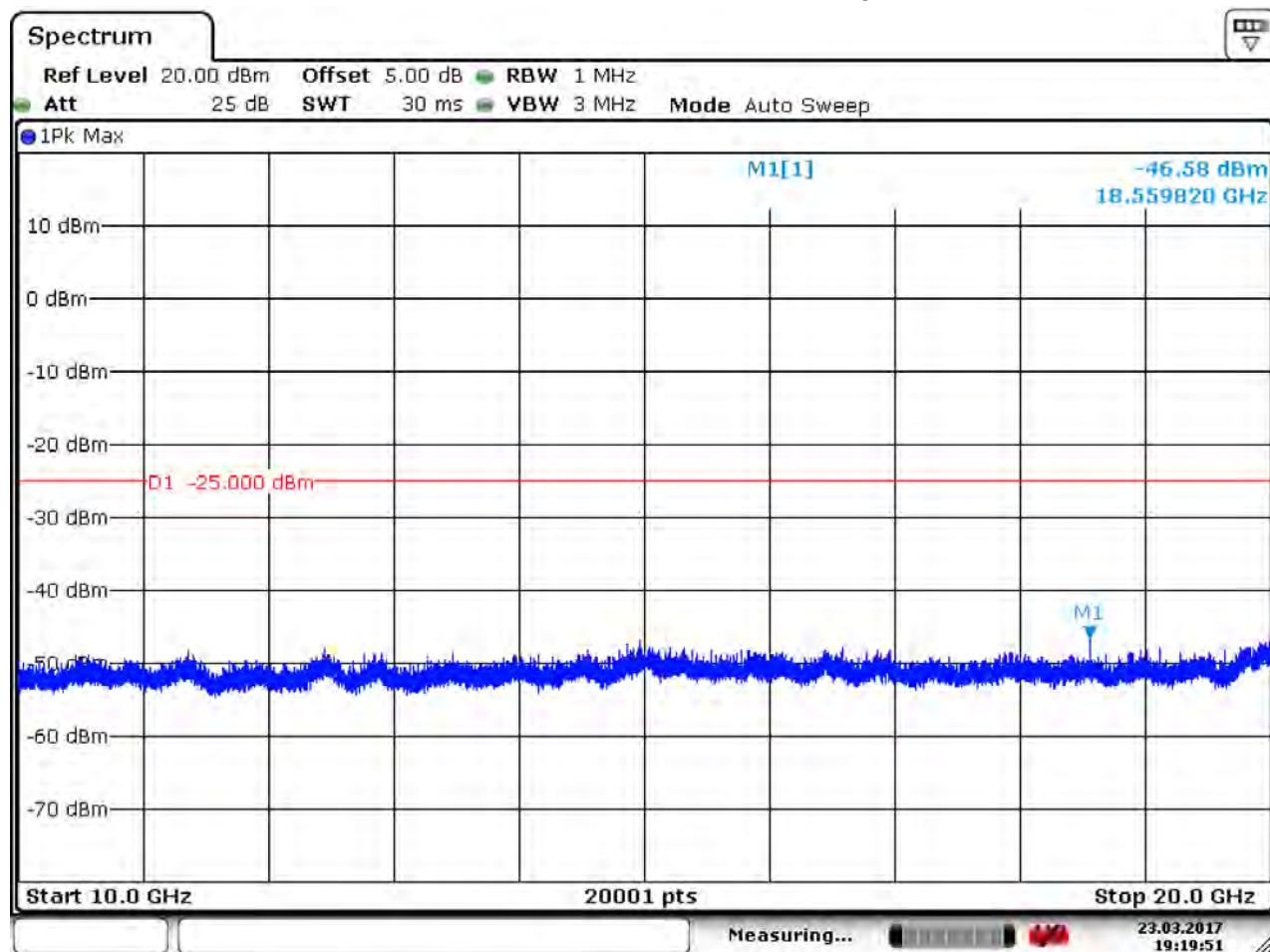
6.1.1.1.3 Test Channel = HCH



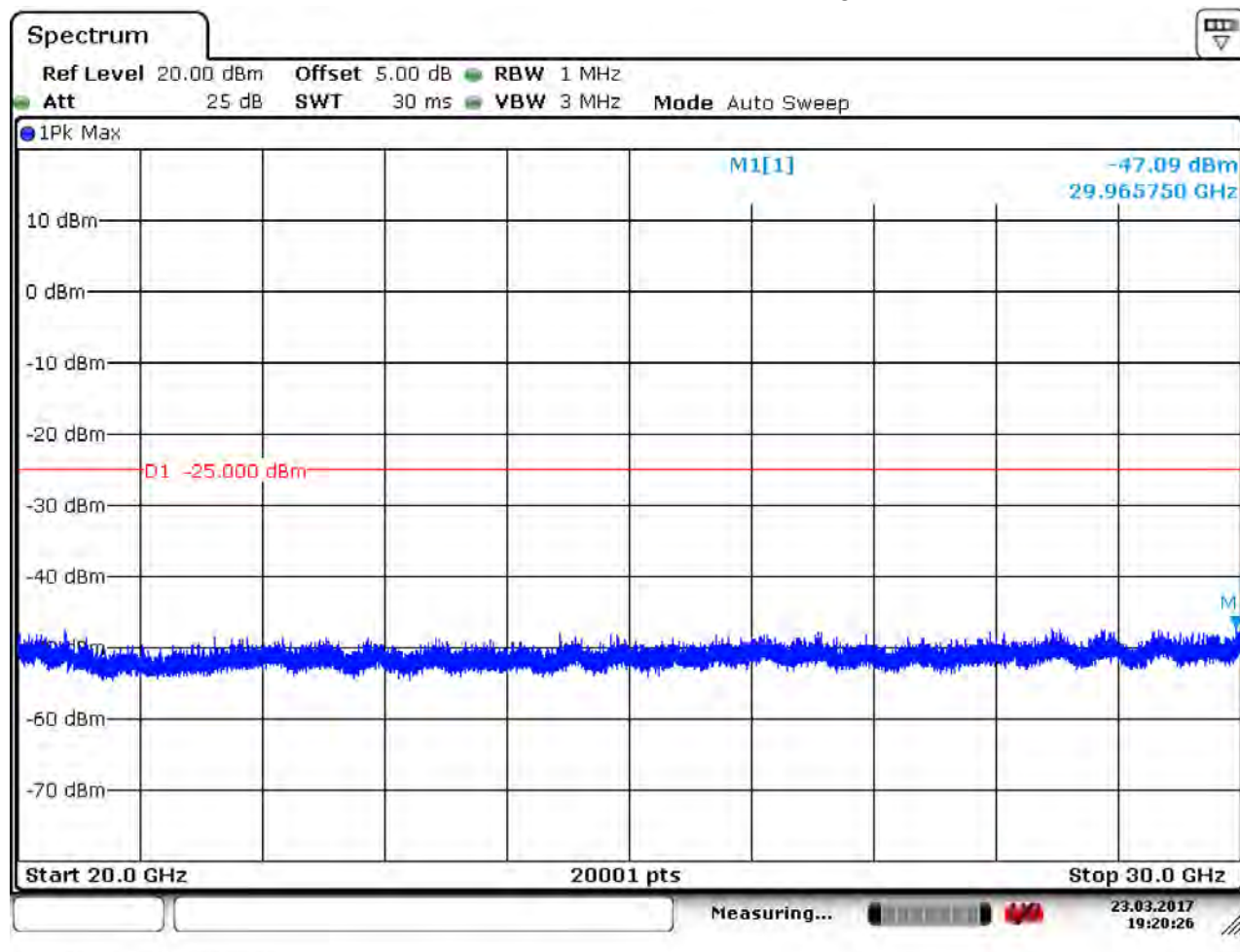
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Date: 23.MAR.2017 19:20:26



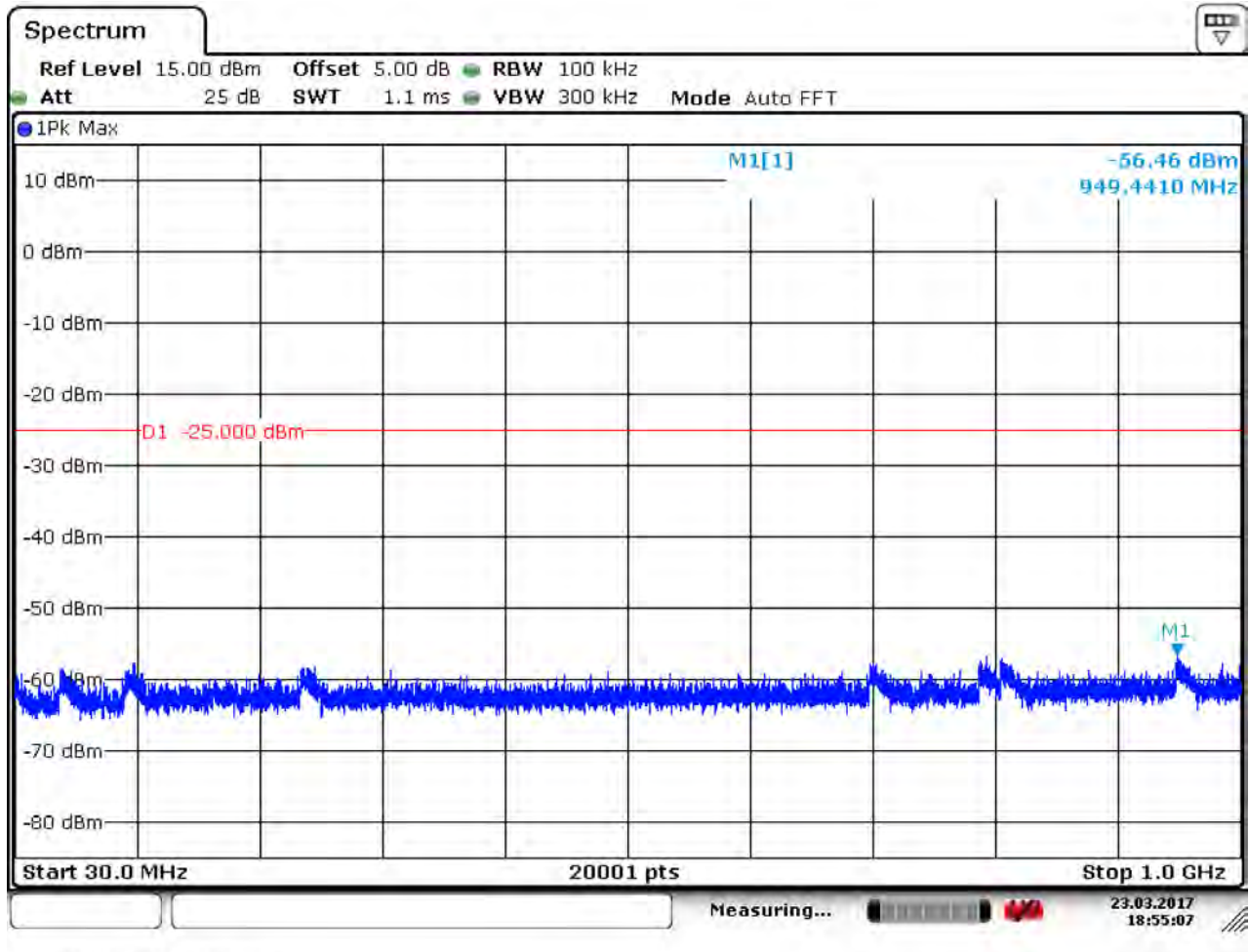
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6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 23.MAR.2017 18:55:07

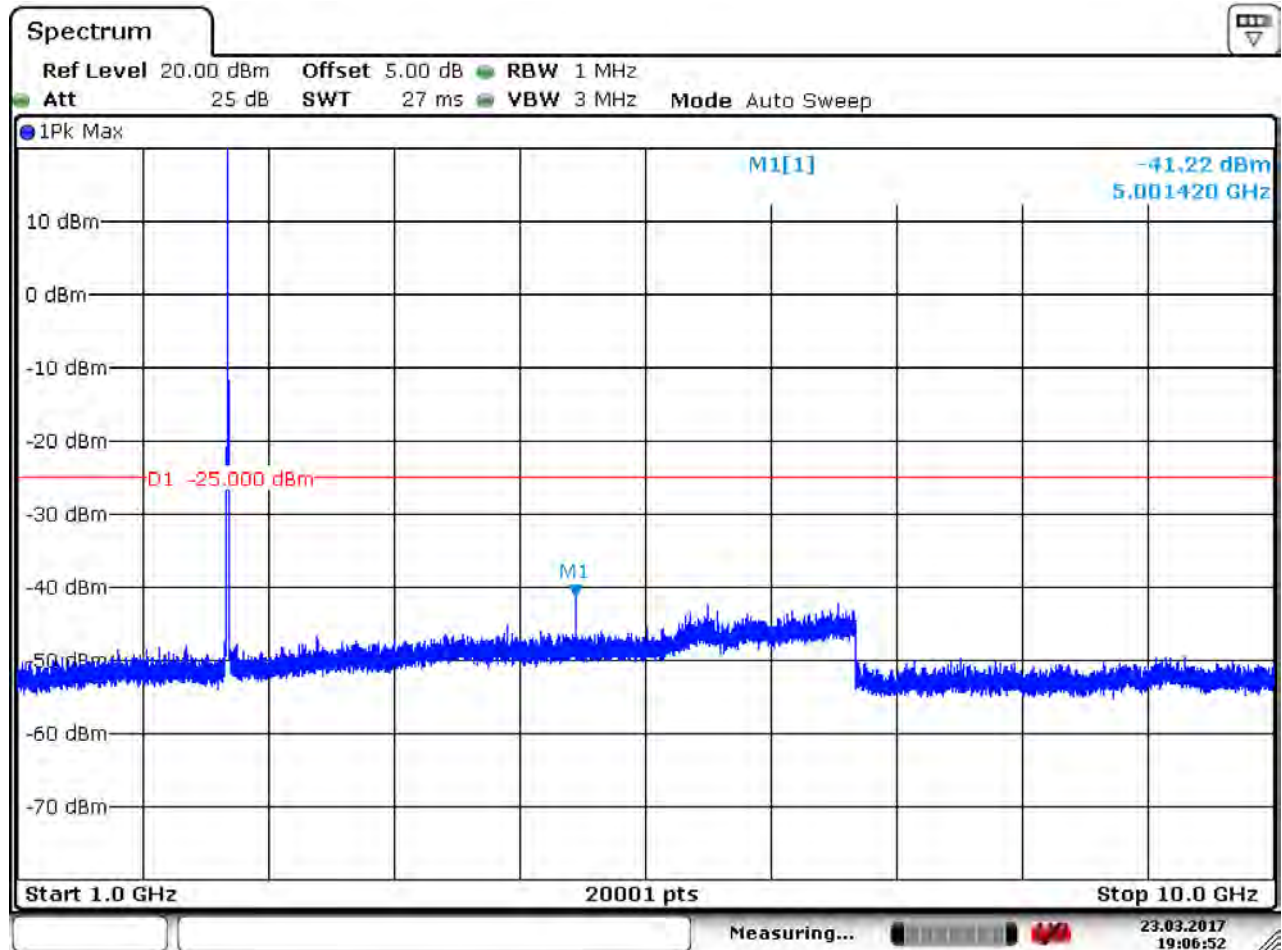
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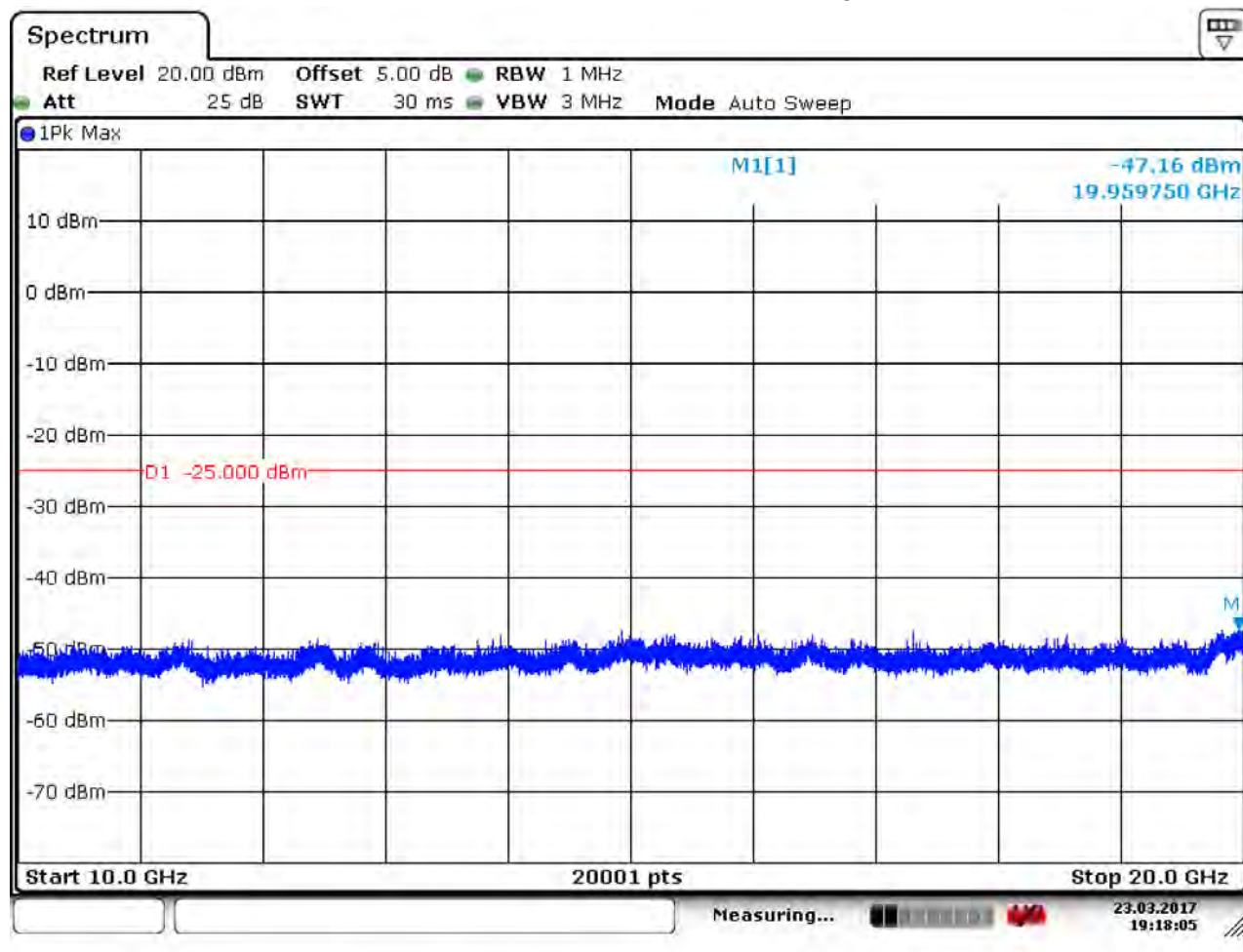
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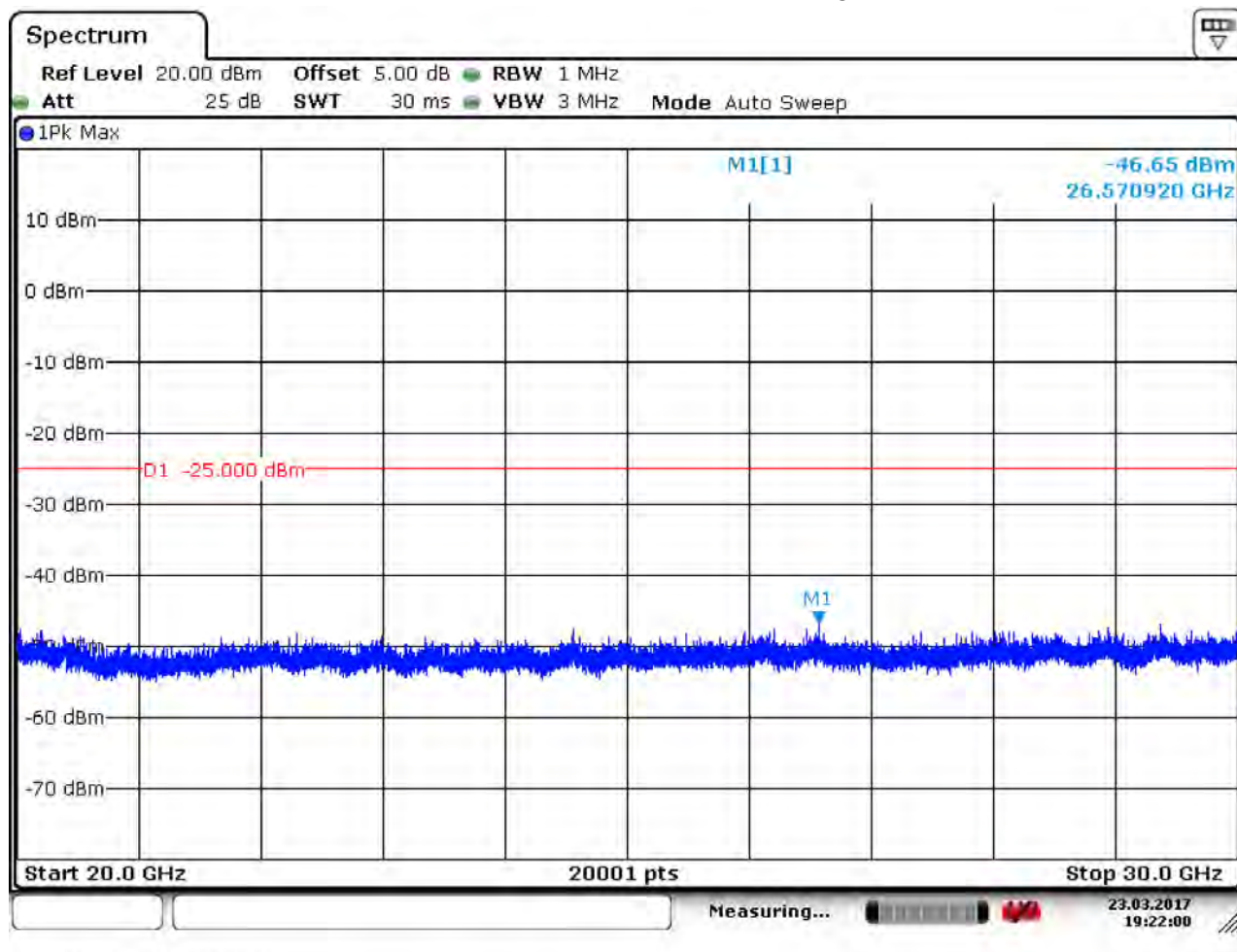


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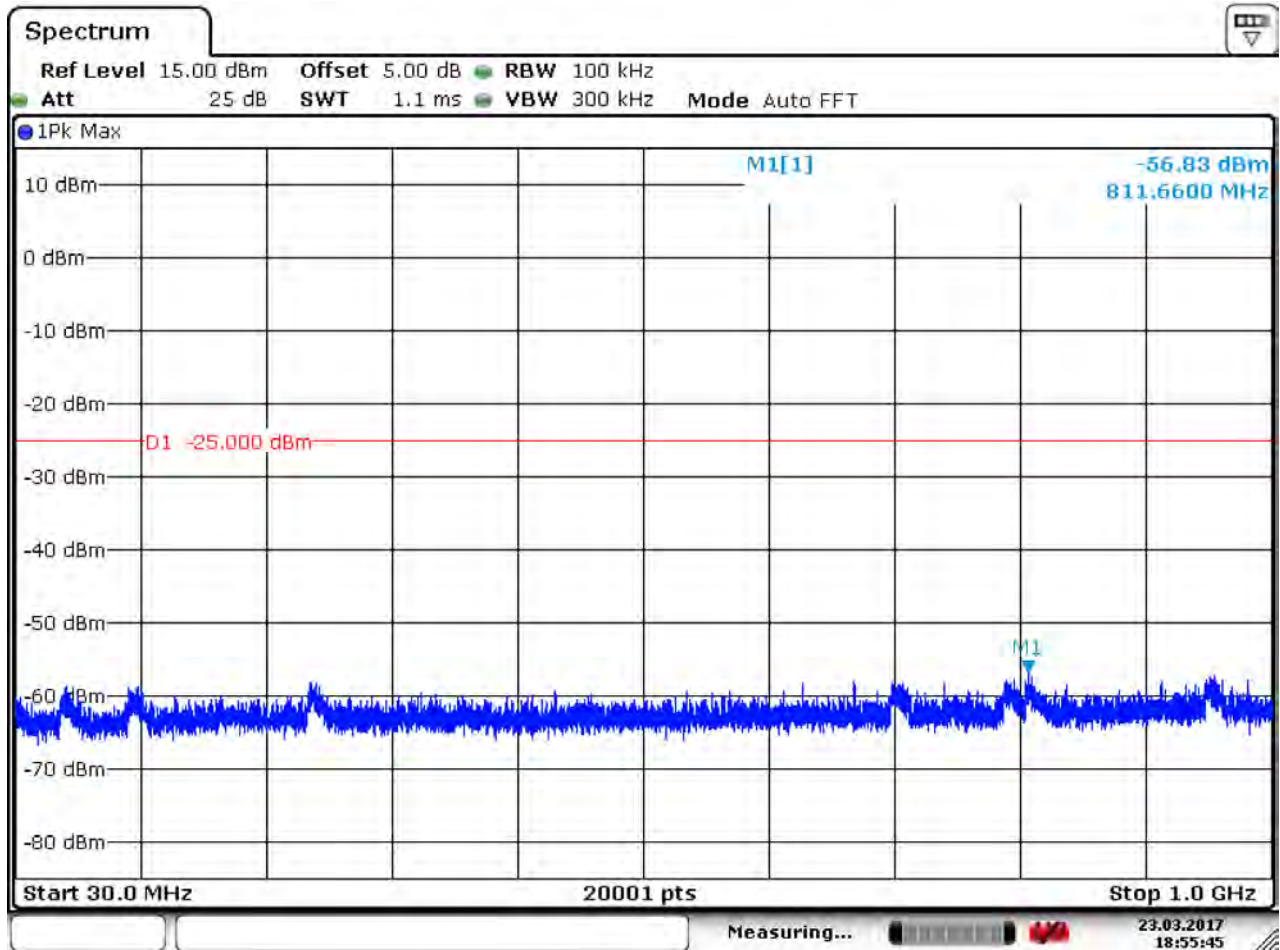
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Date: 23.MAR.2017 19:22:01



6.1.1.2.2 Test Channel = MCH



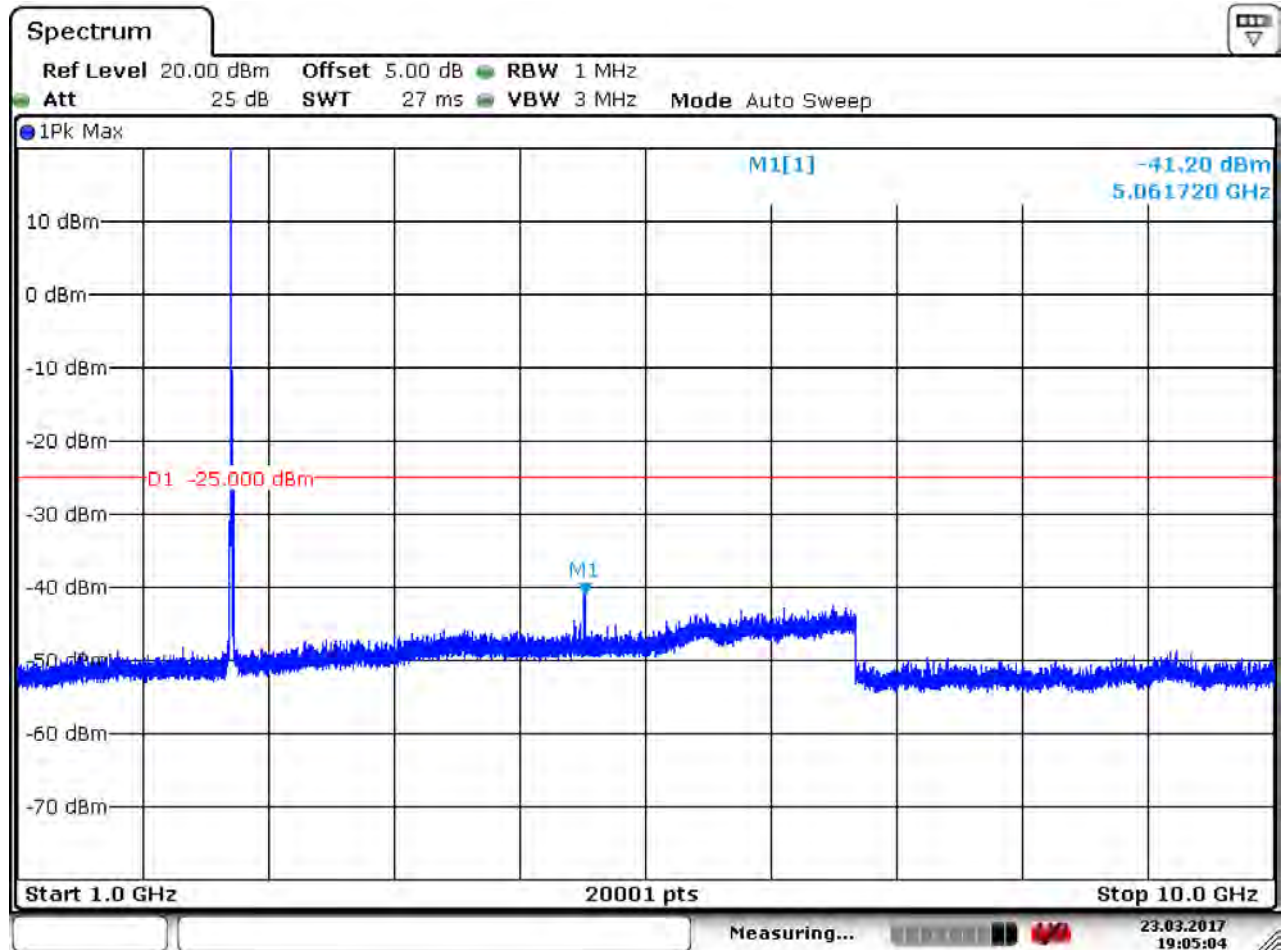
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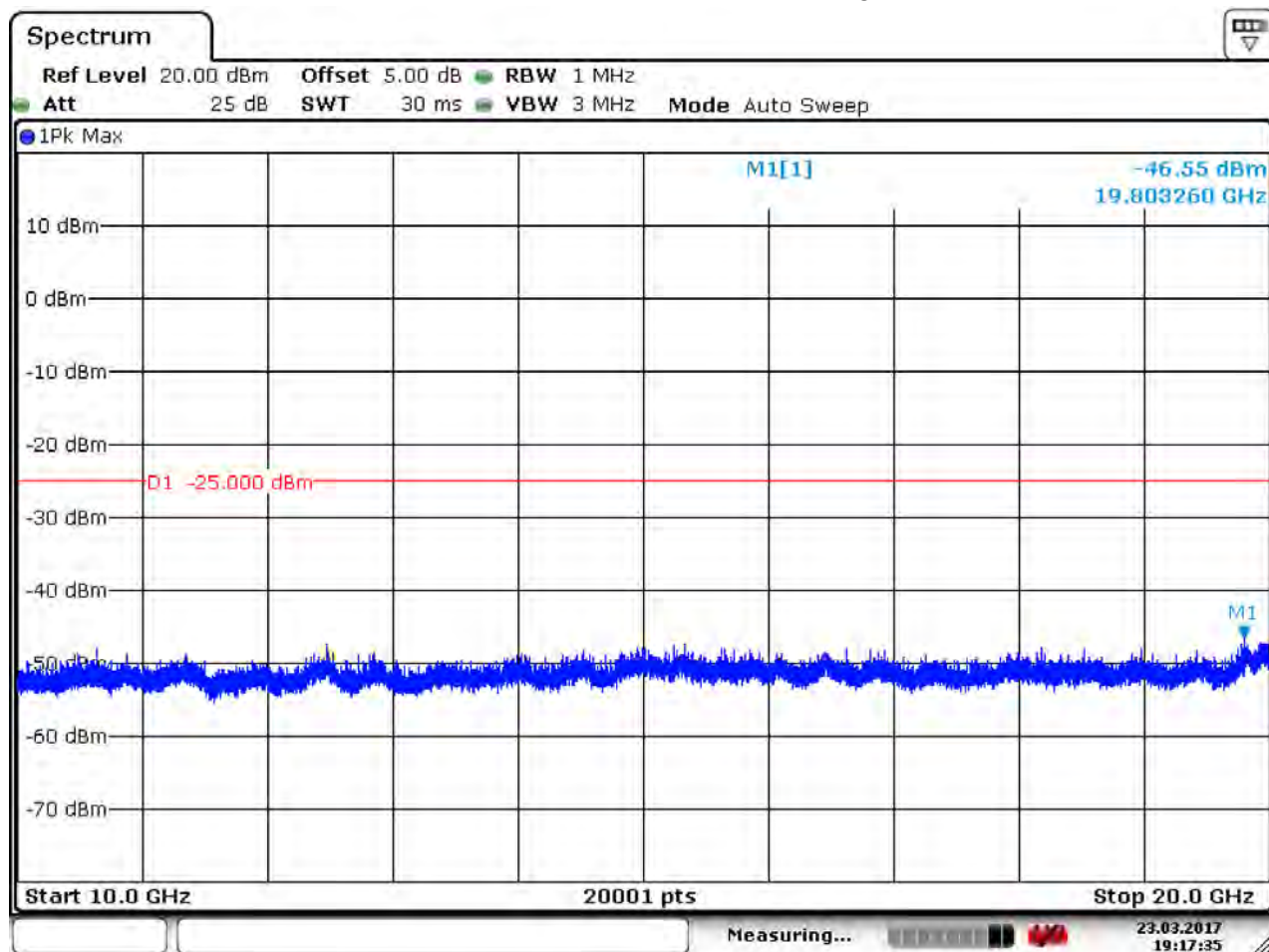
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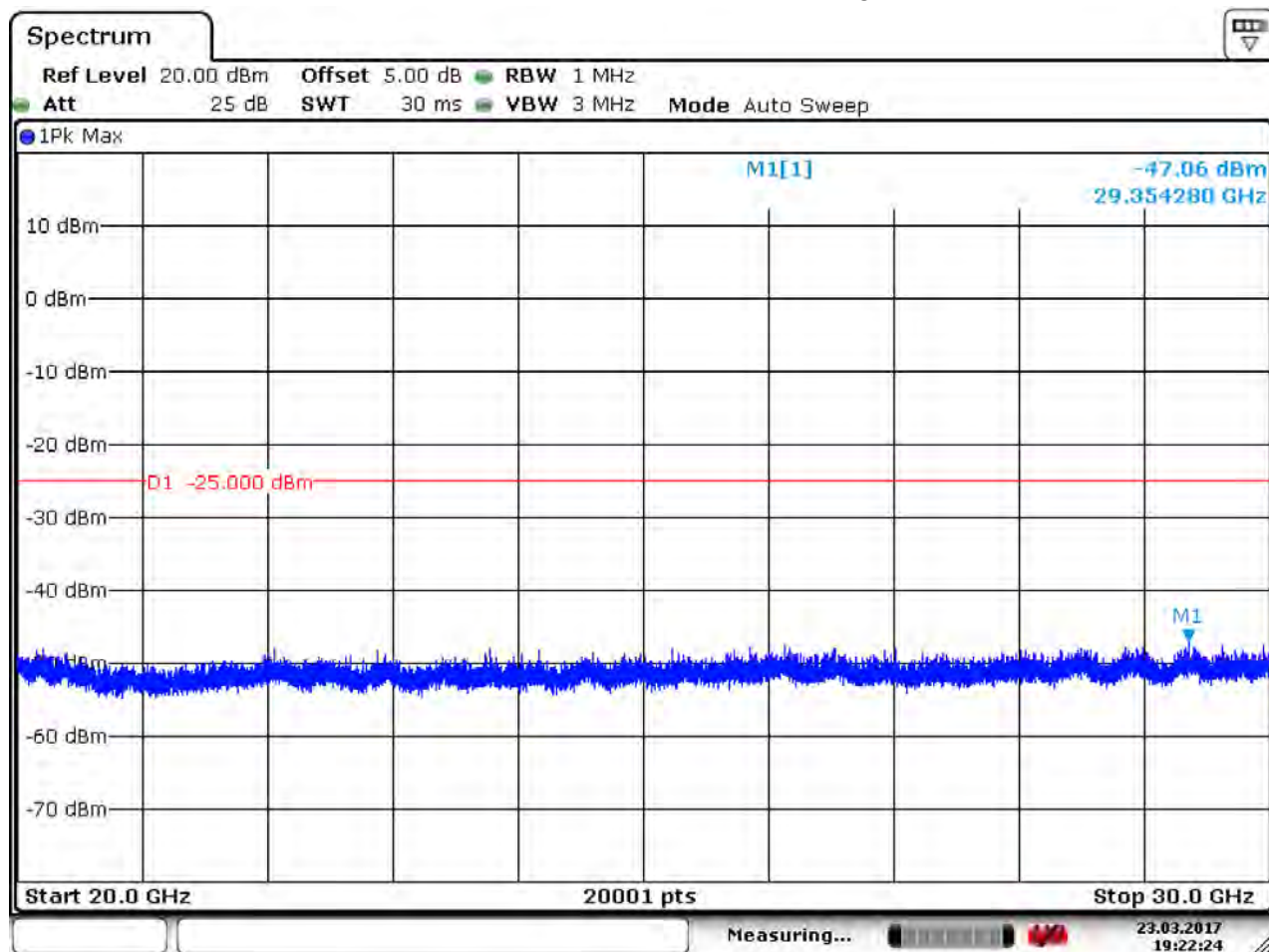


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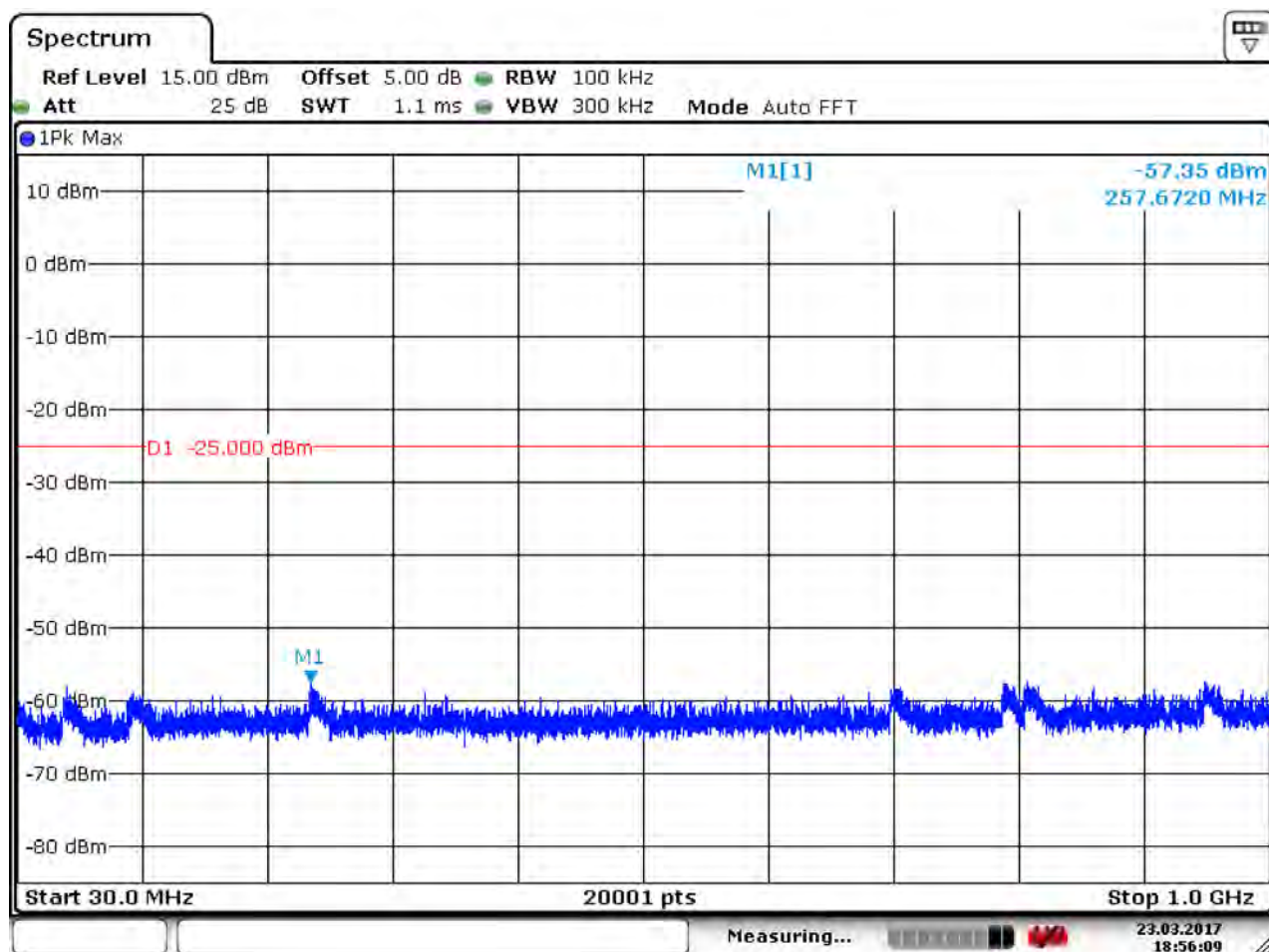
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Date: 23.MAR.2017 19:22:24



6.1.1.2.3 Test Channel = HCH



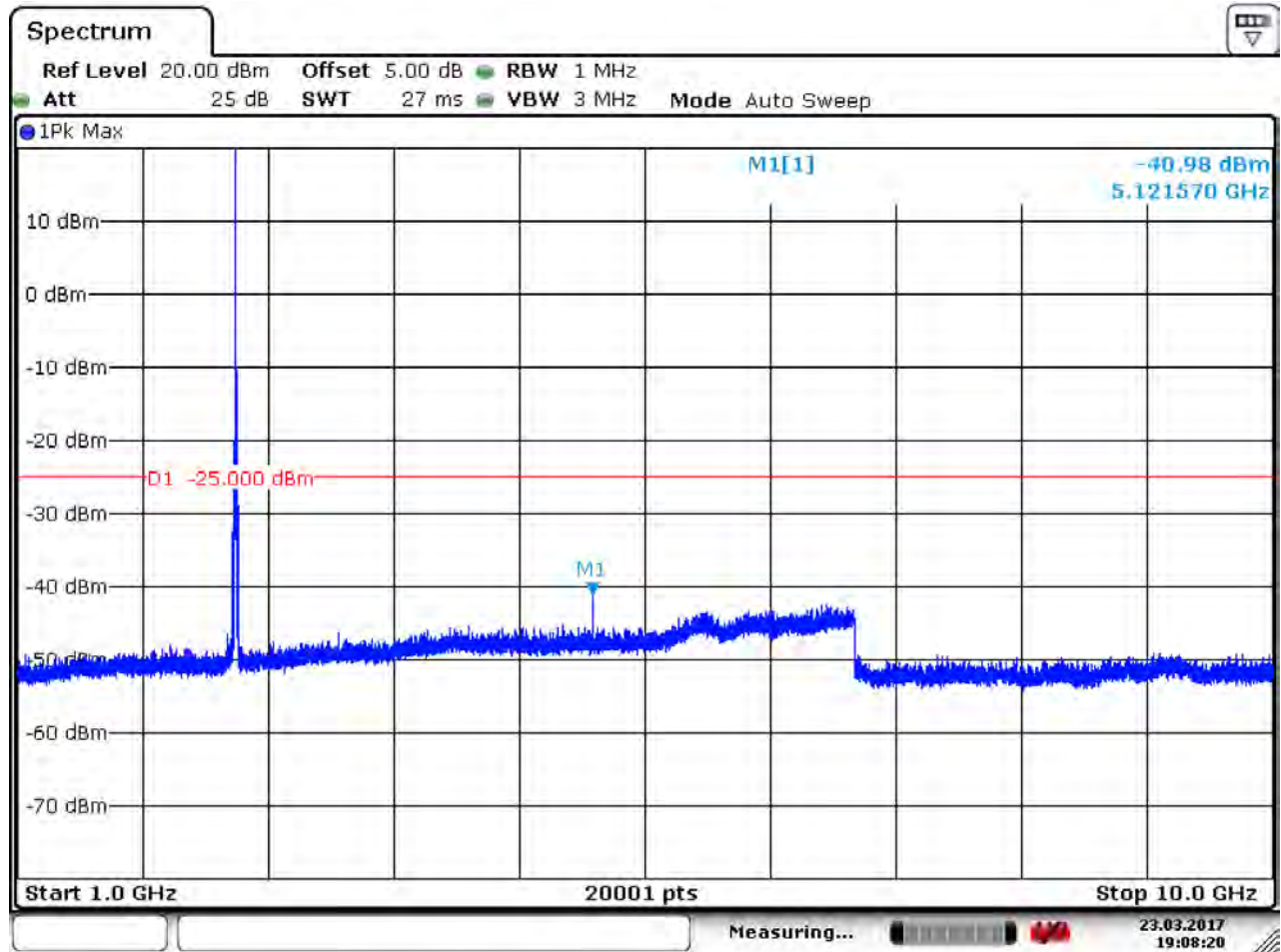
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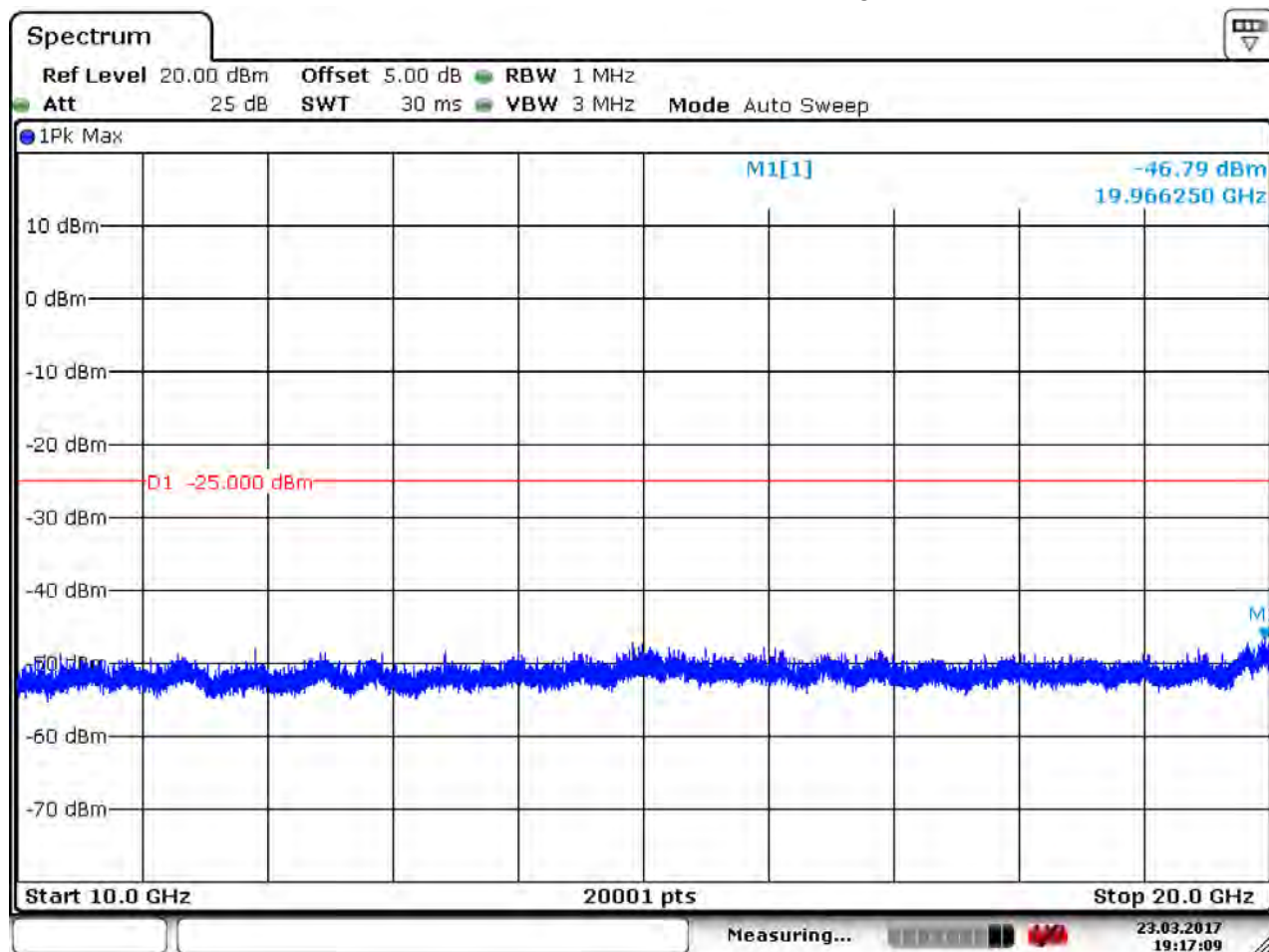
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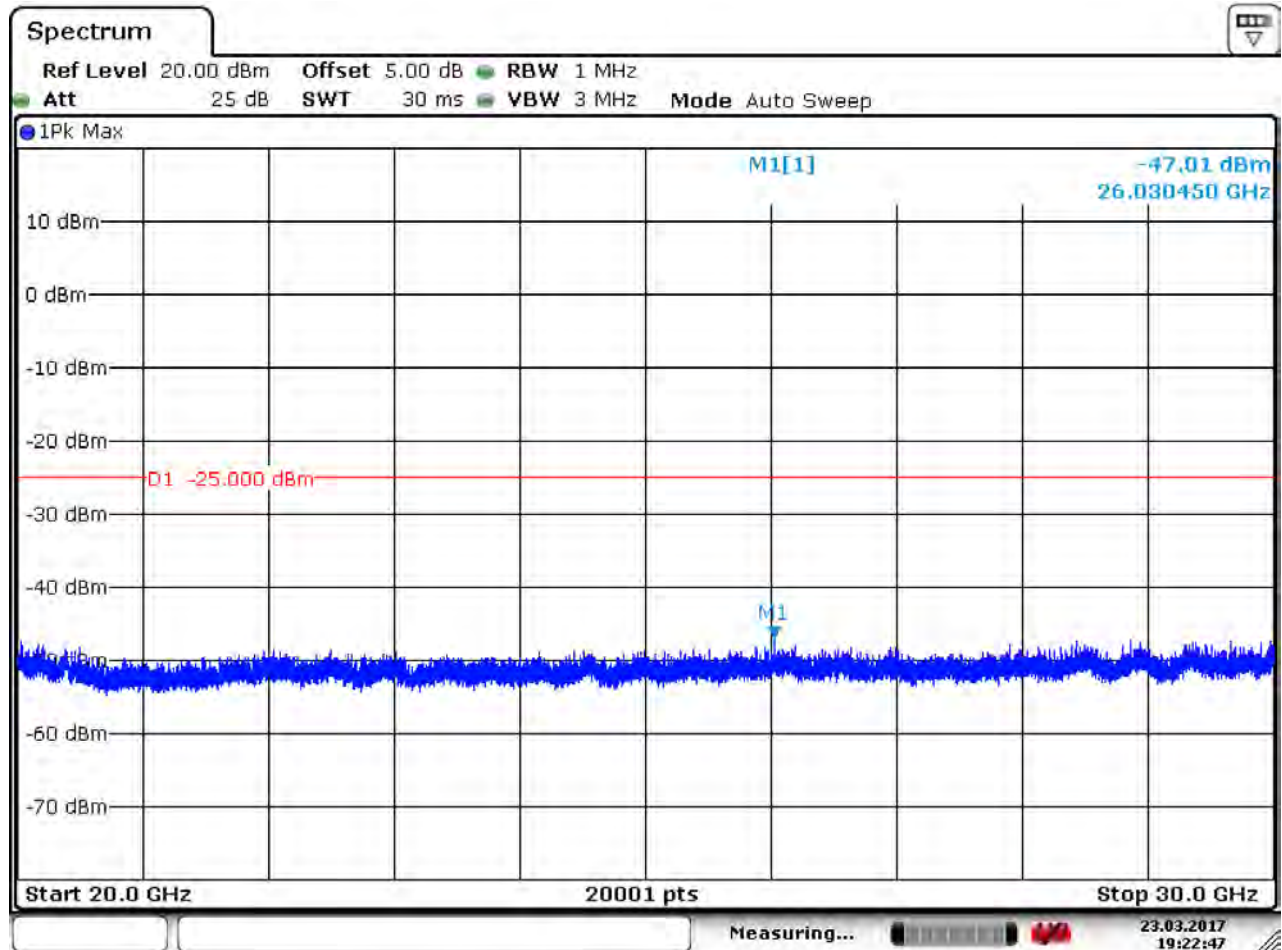
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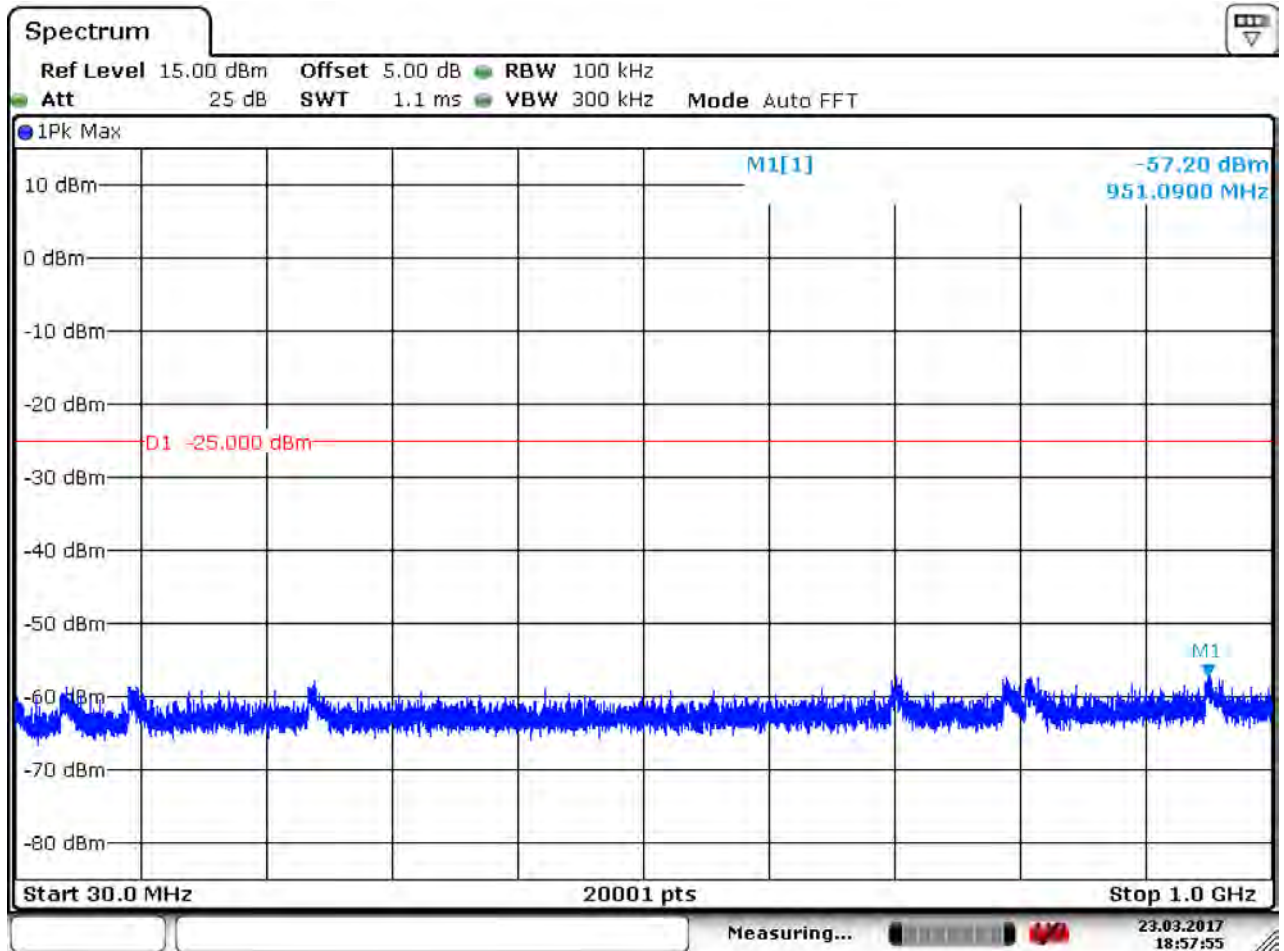
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6.1.1.3 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.3.1 Test Channel = LCH



Date: 23.MAR.2017 18:57:55

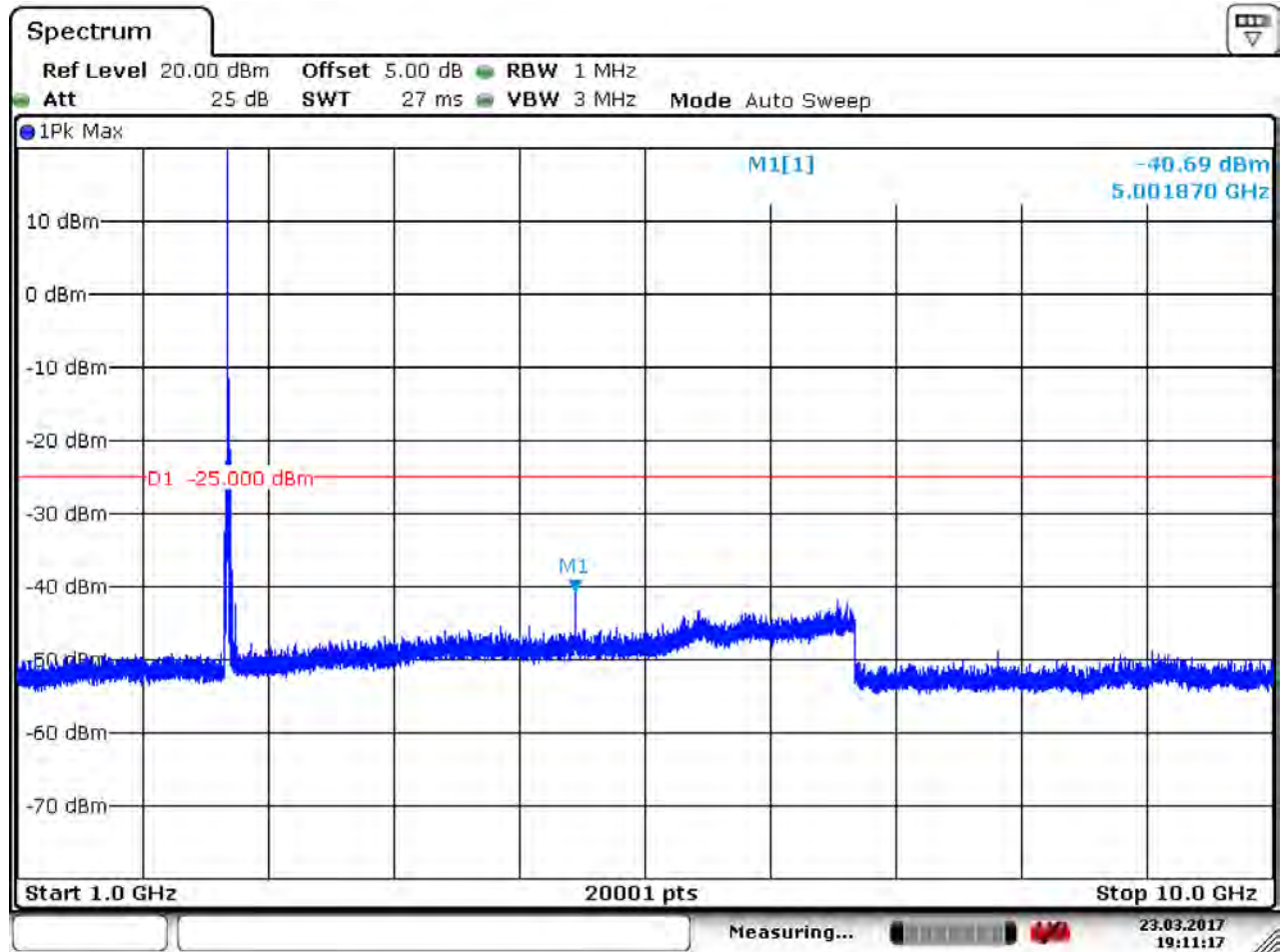
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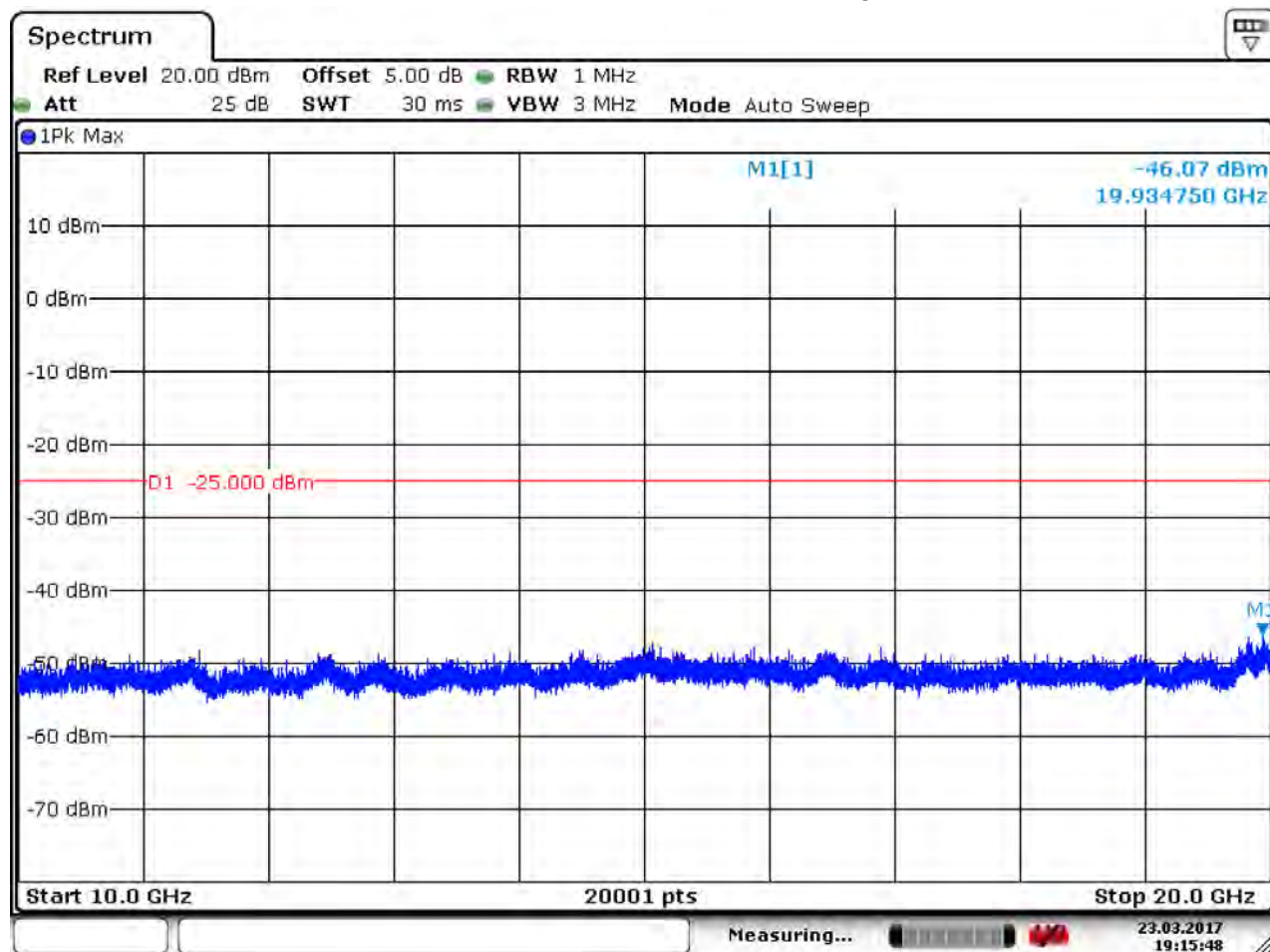
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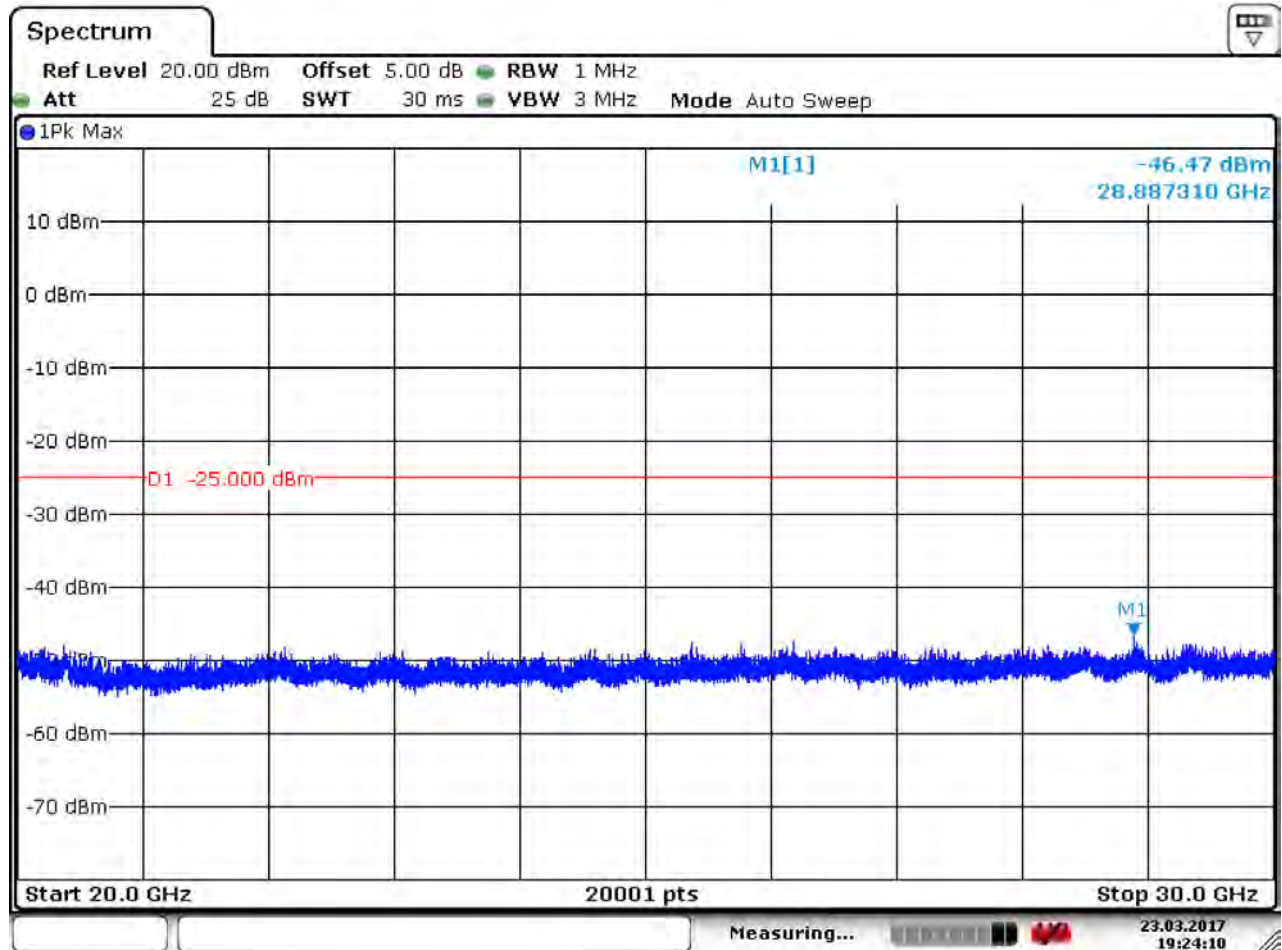
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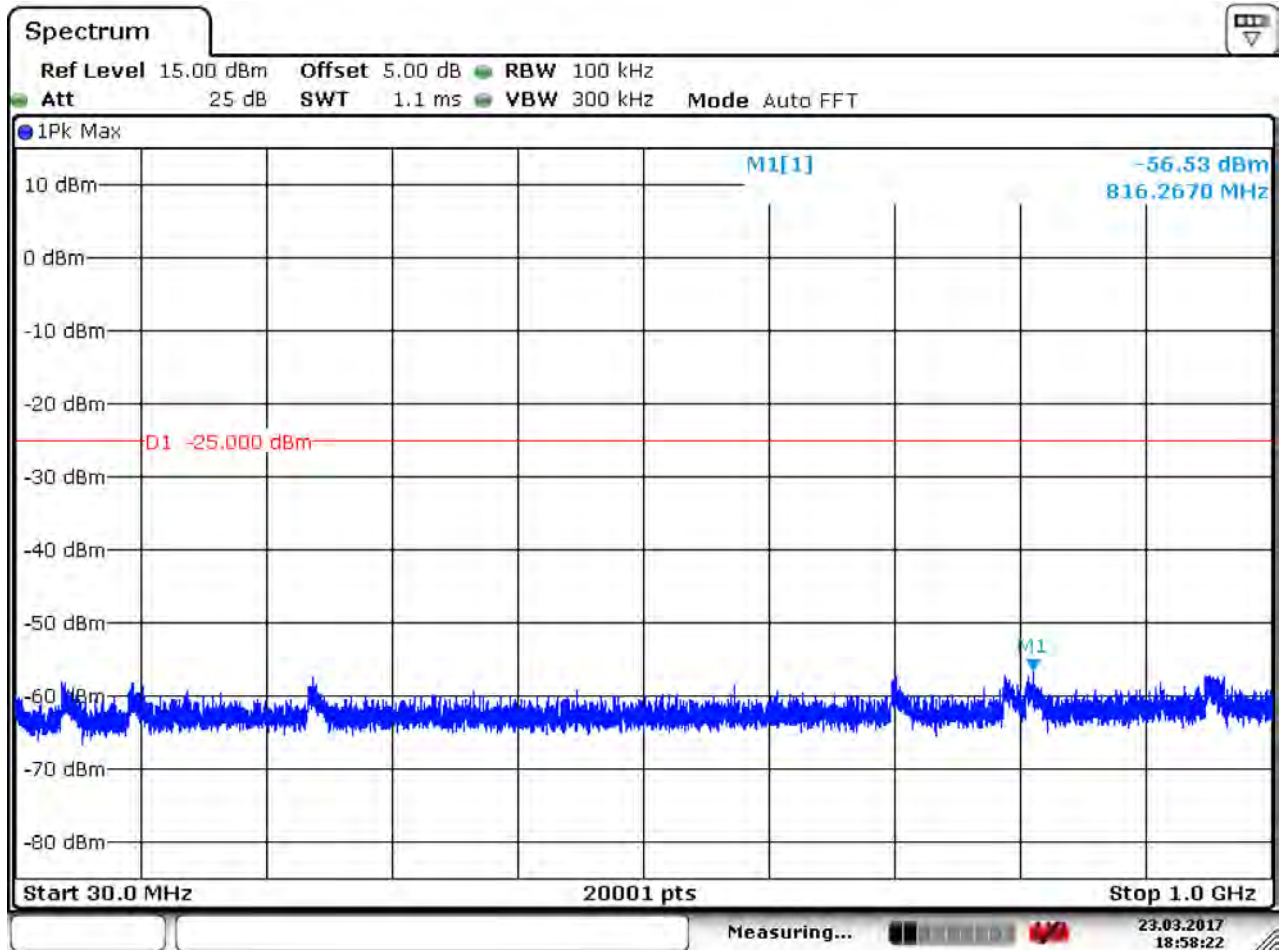


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6.1.1.3.2 Test Channel = MCH



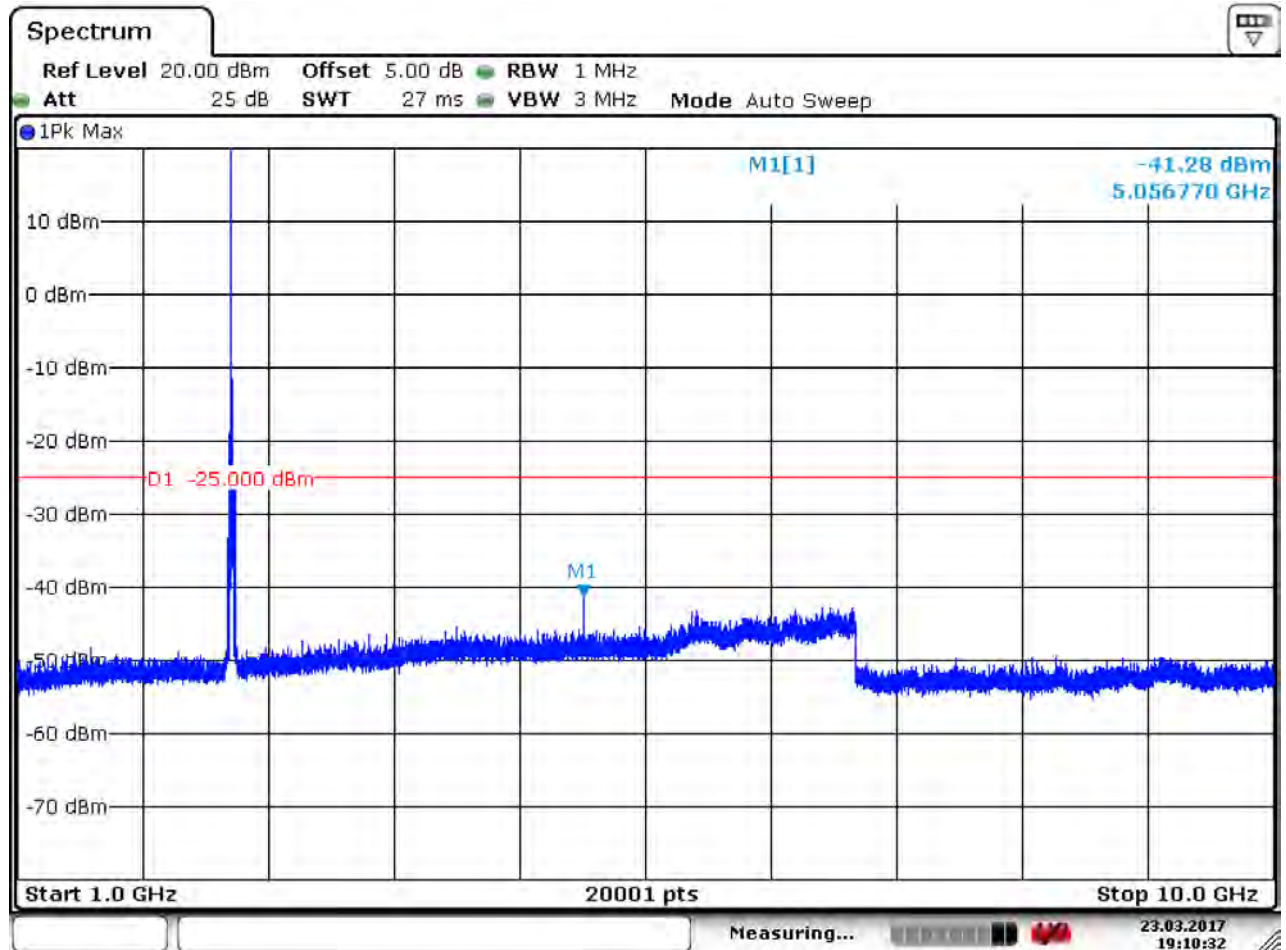
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Date: 23.MAR.2017 19:10:33

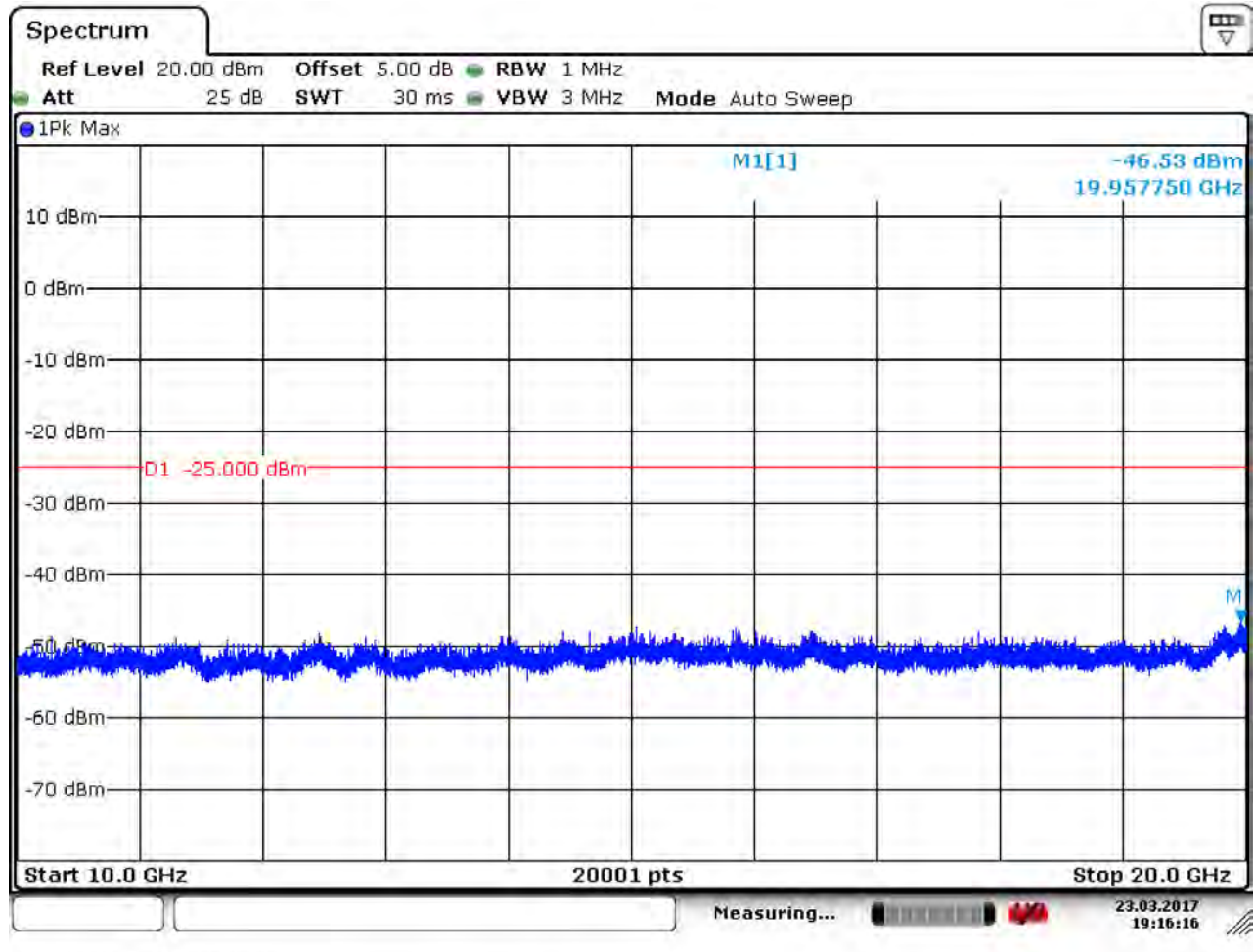
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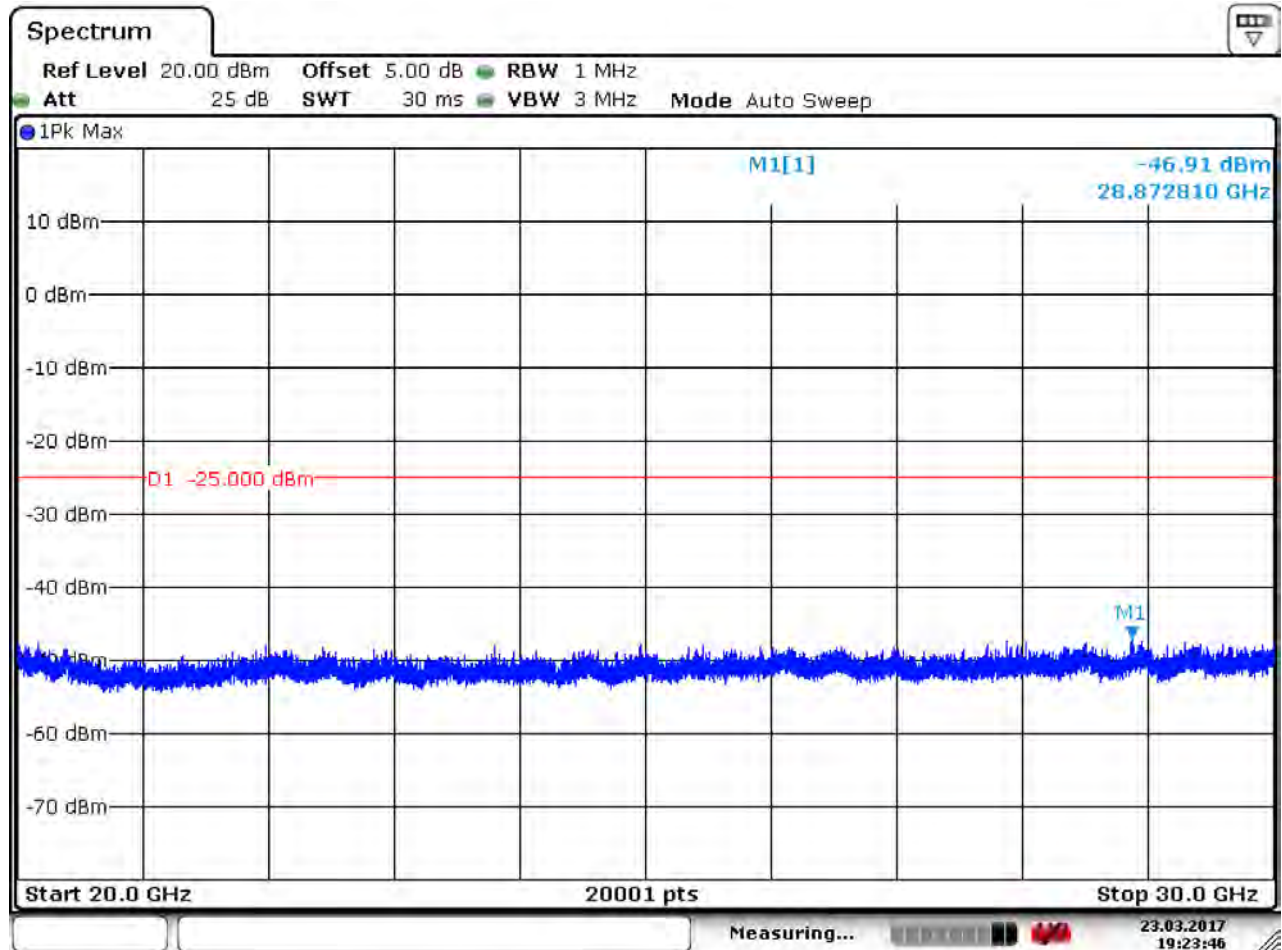
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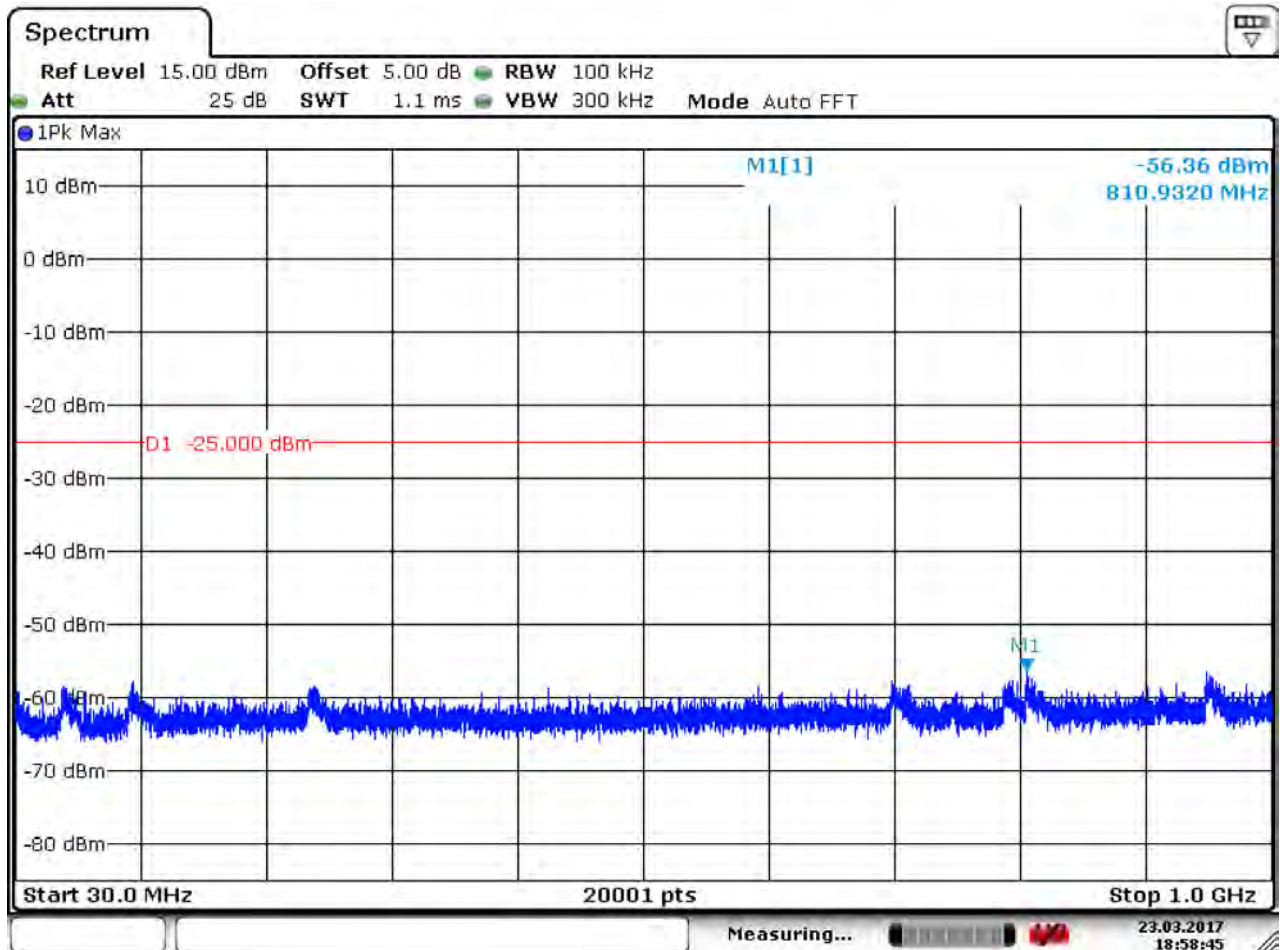


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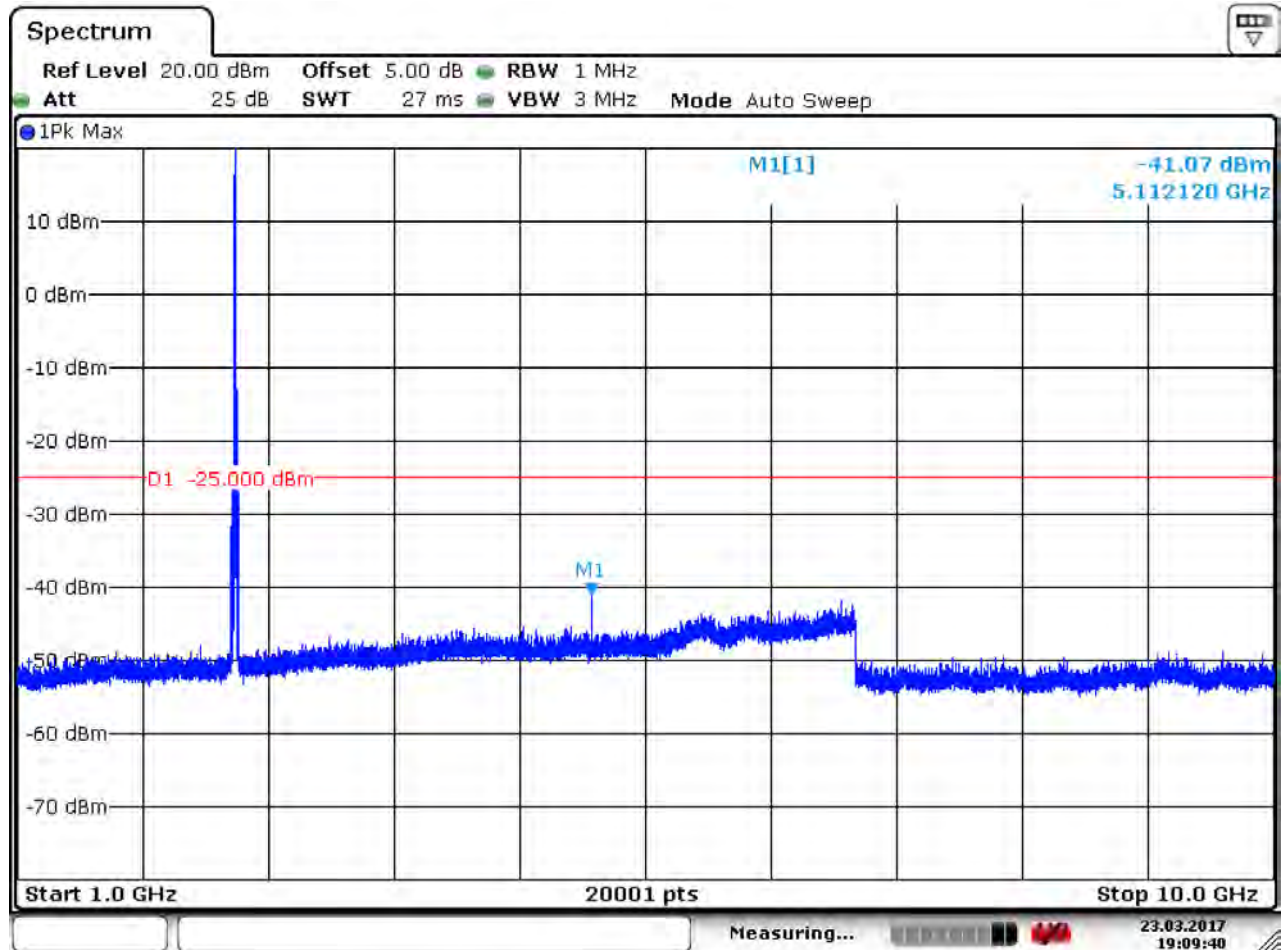
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6.1.1.3.3 Test Channel = HCH

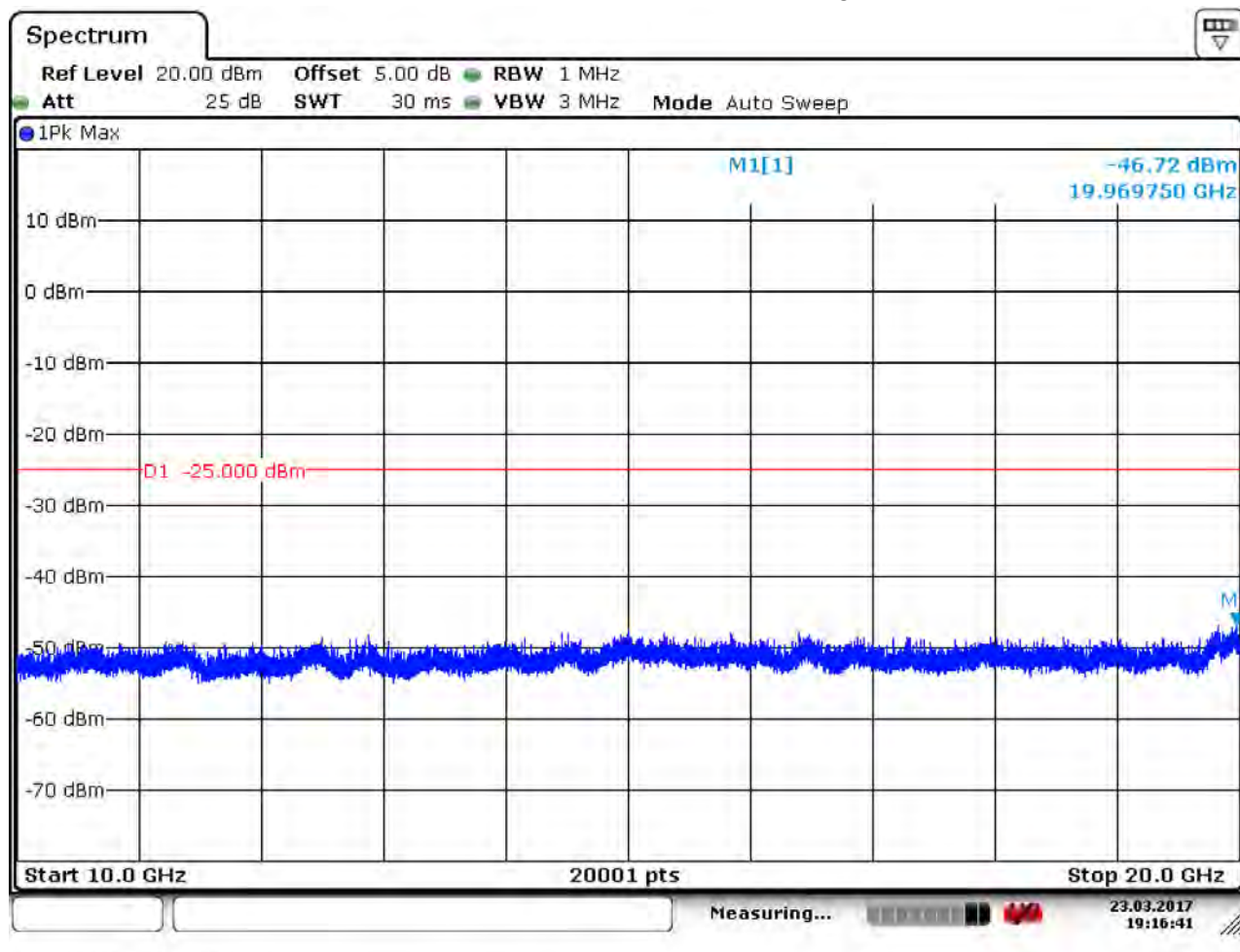


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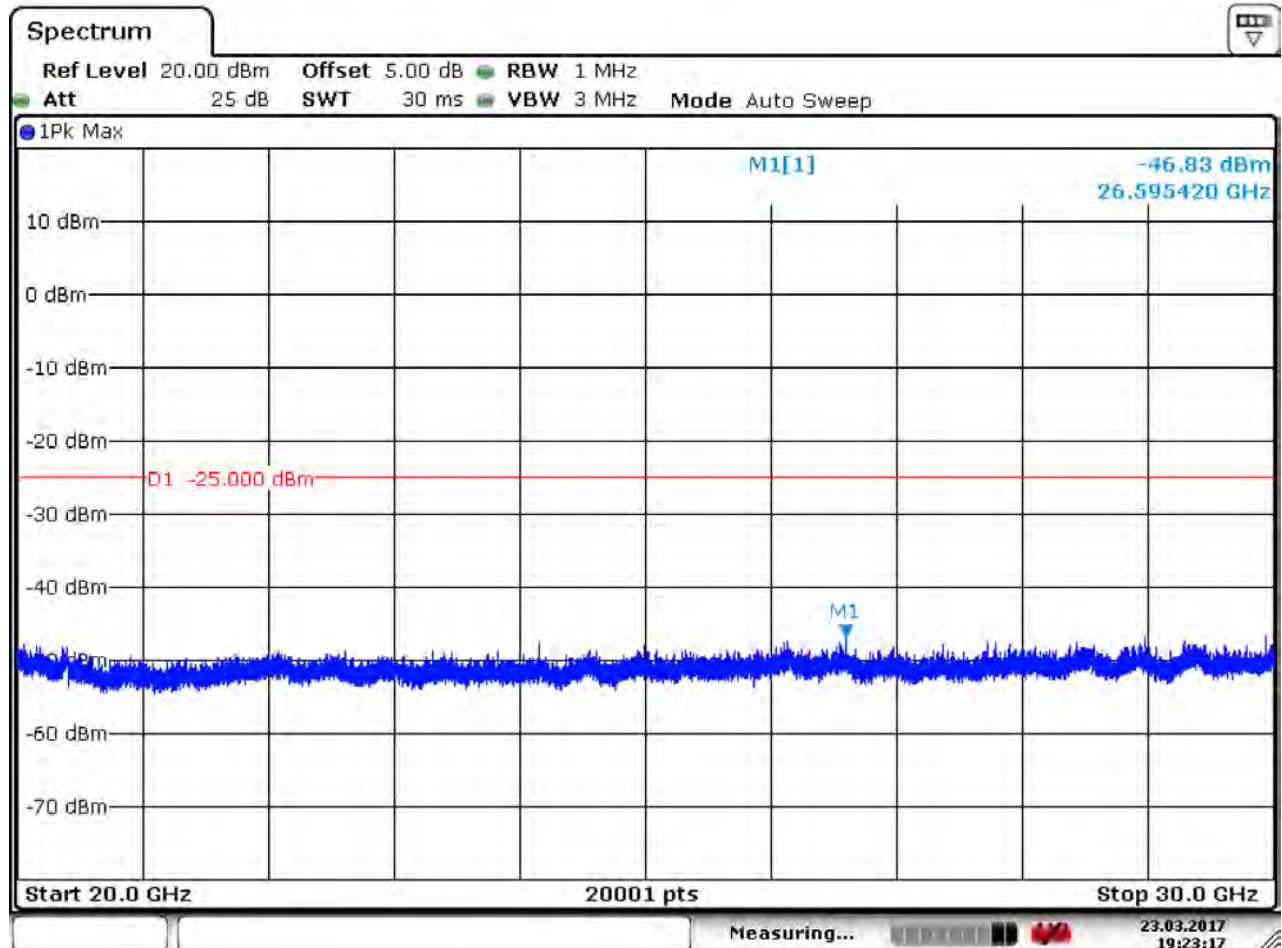
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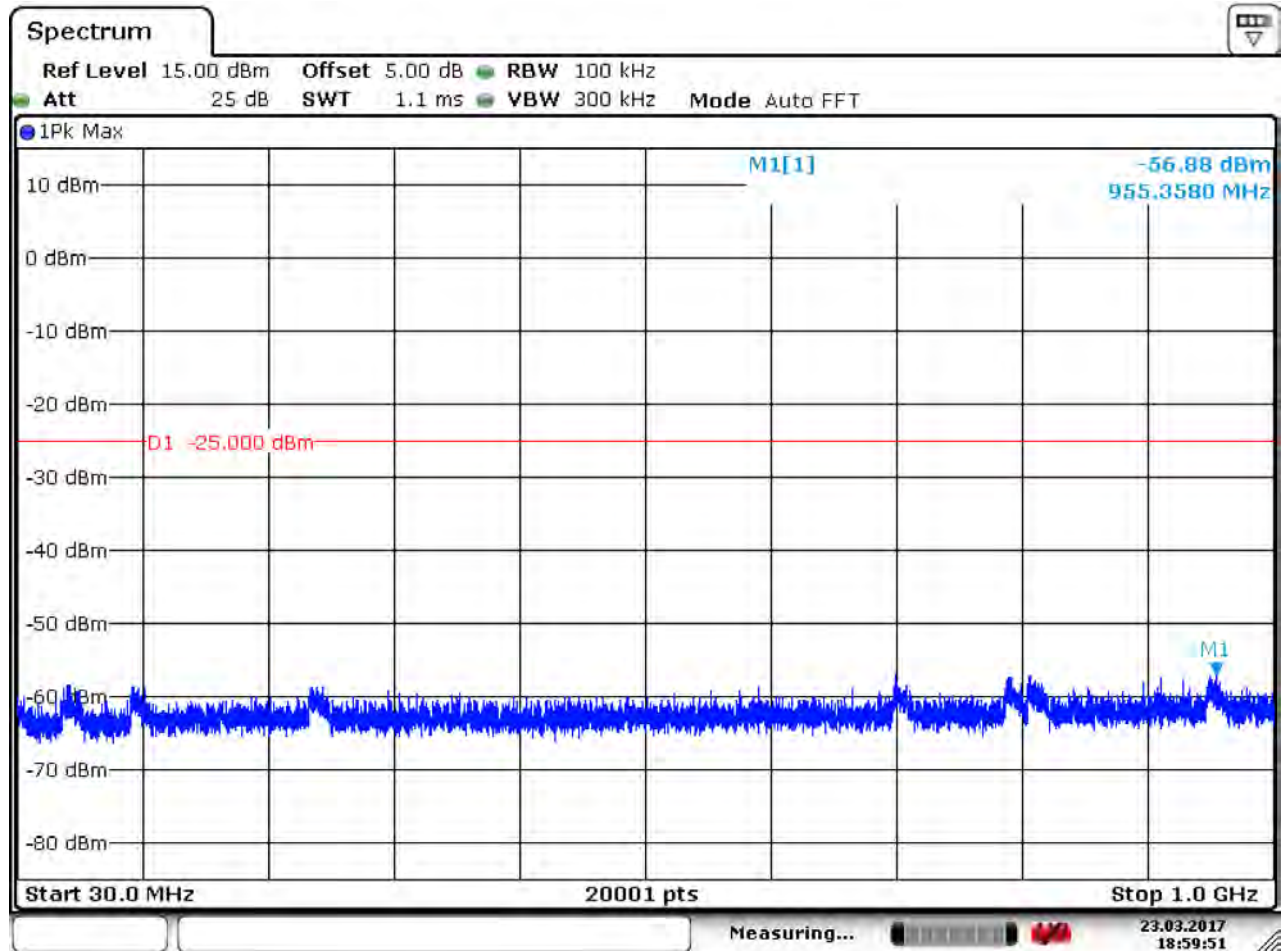
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6.1.1.4 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.4.1 Test Channel = LCH



Date: 23.MAR.2017 18:59:52

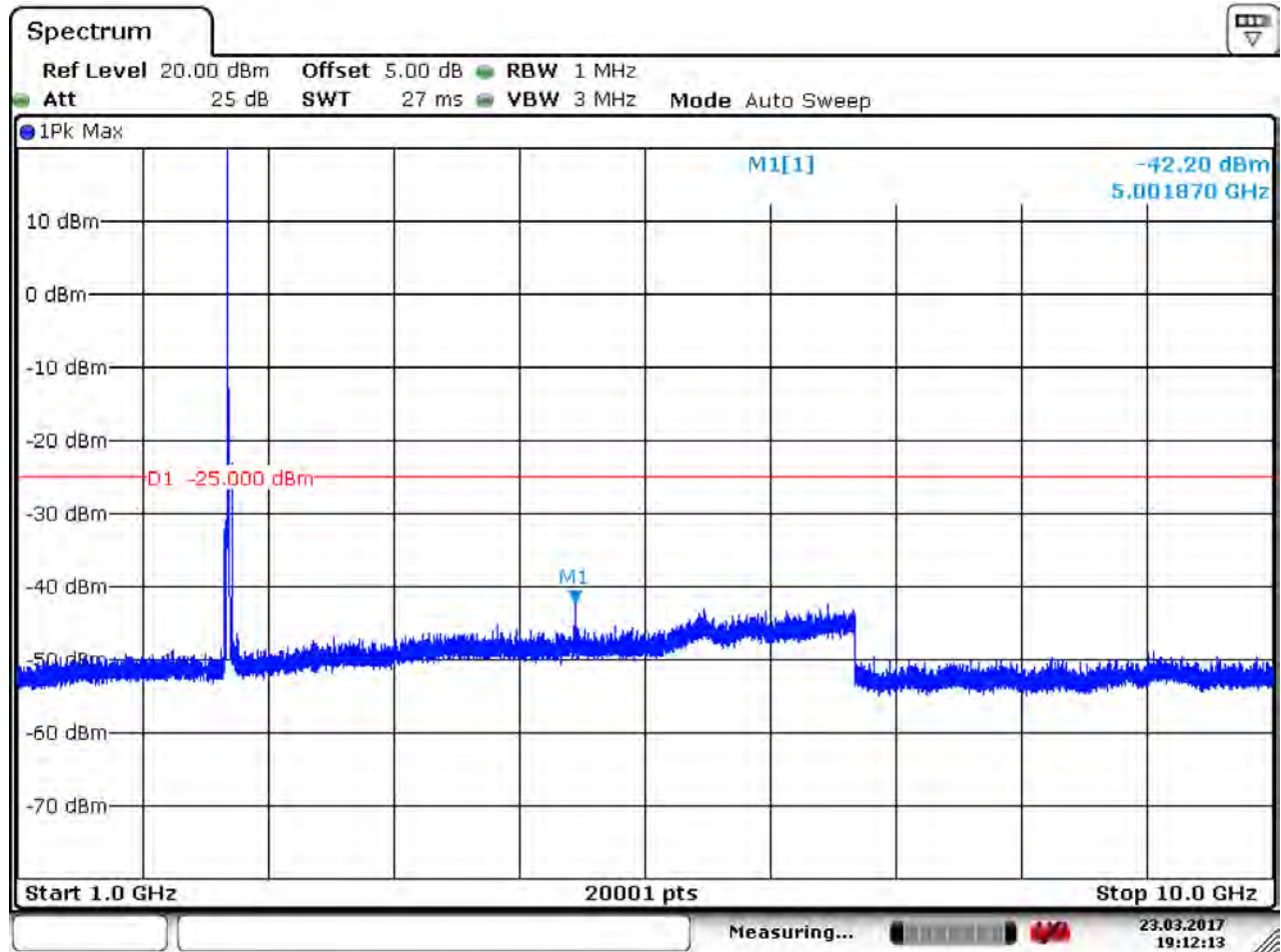
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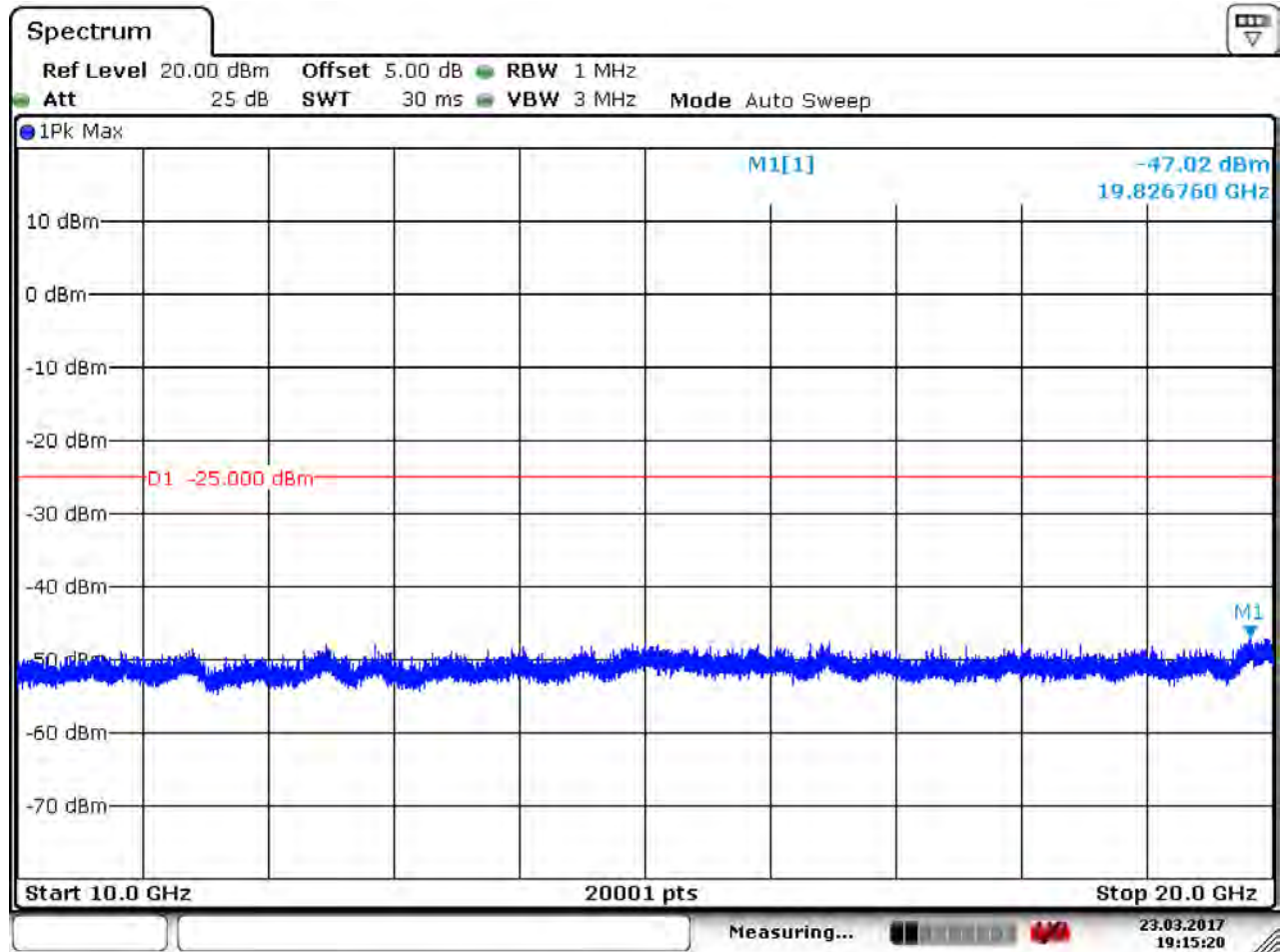
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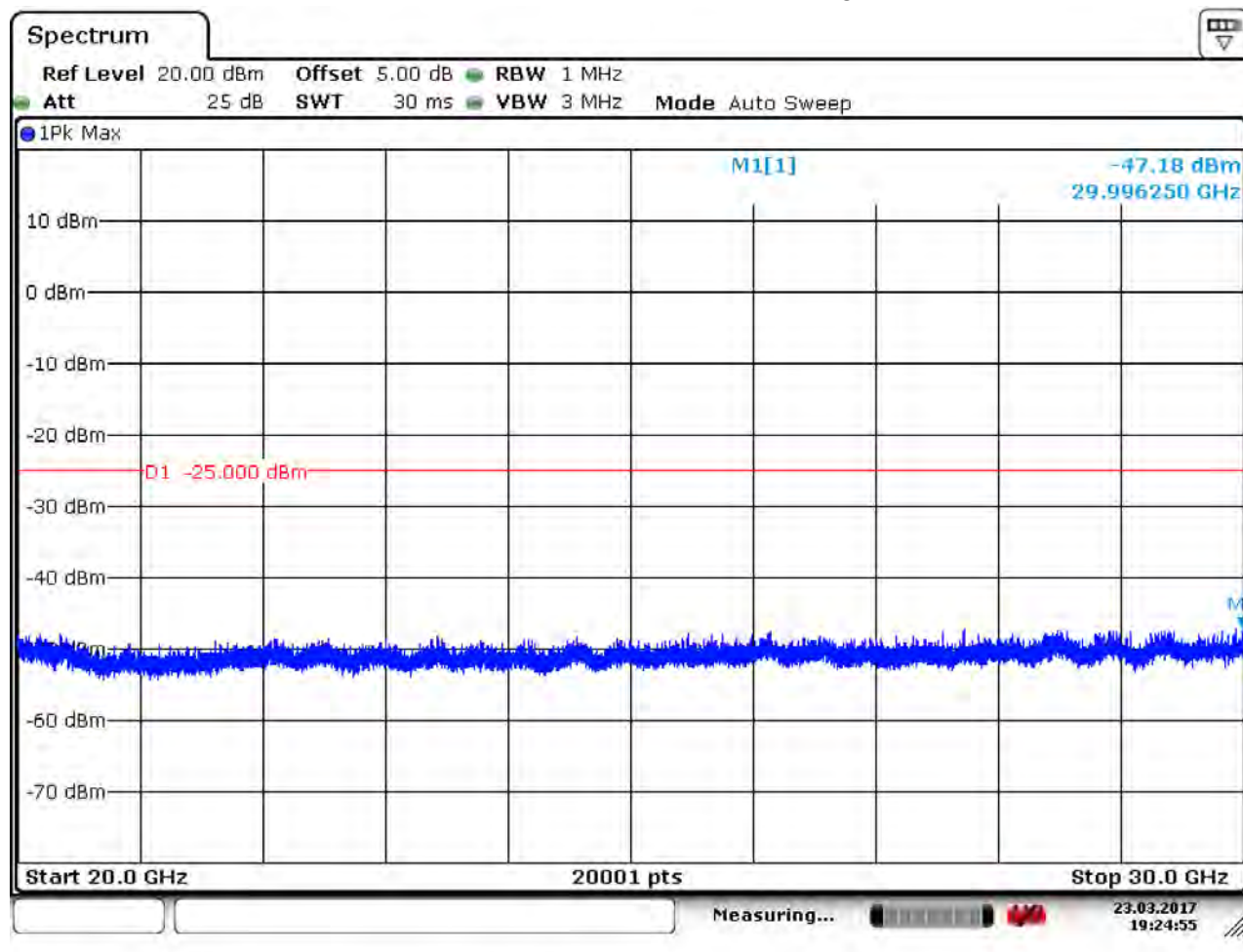


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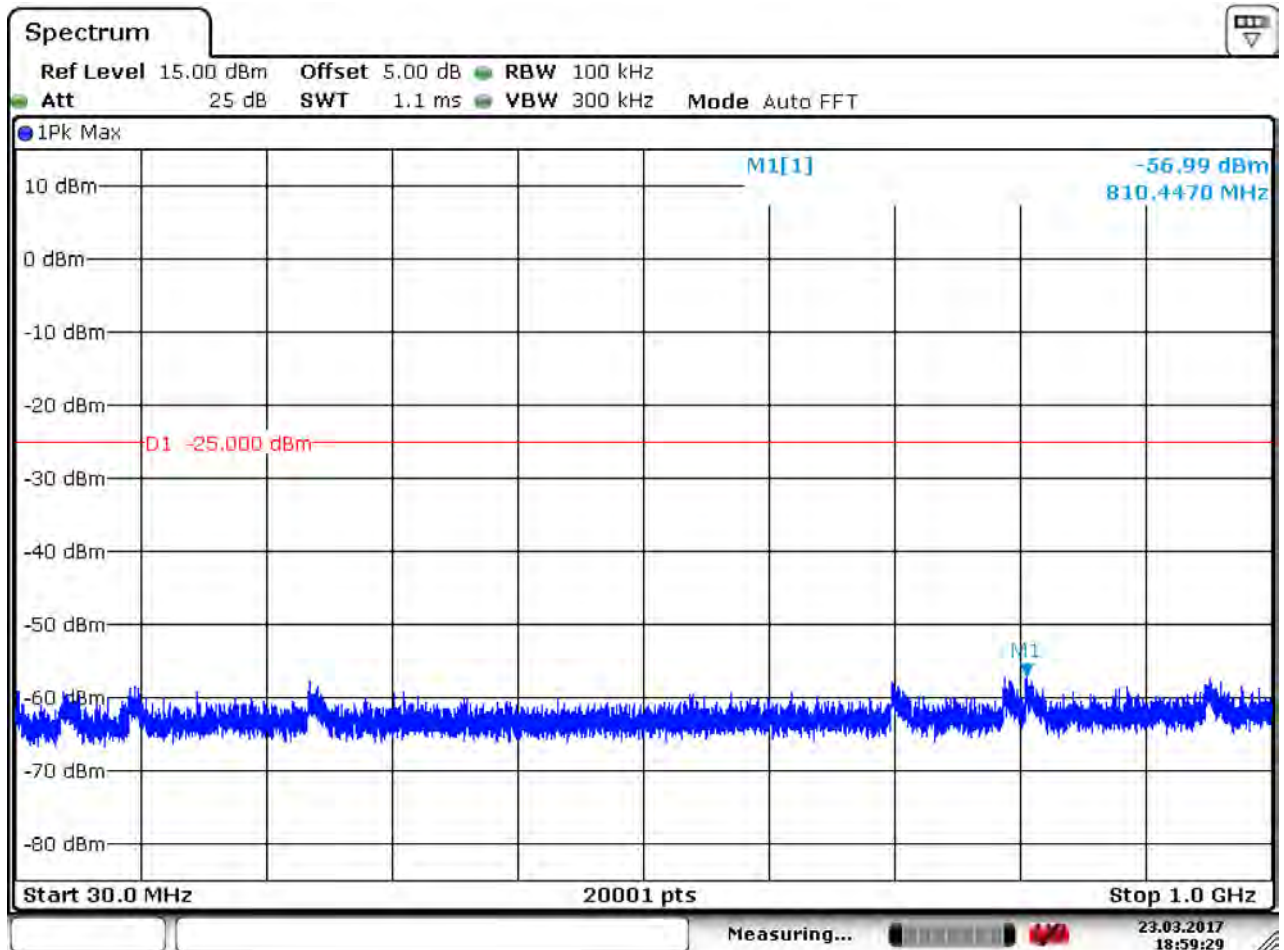


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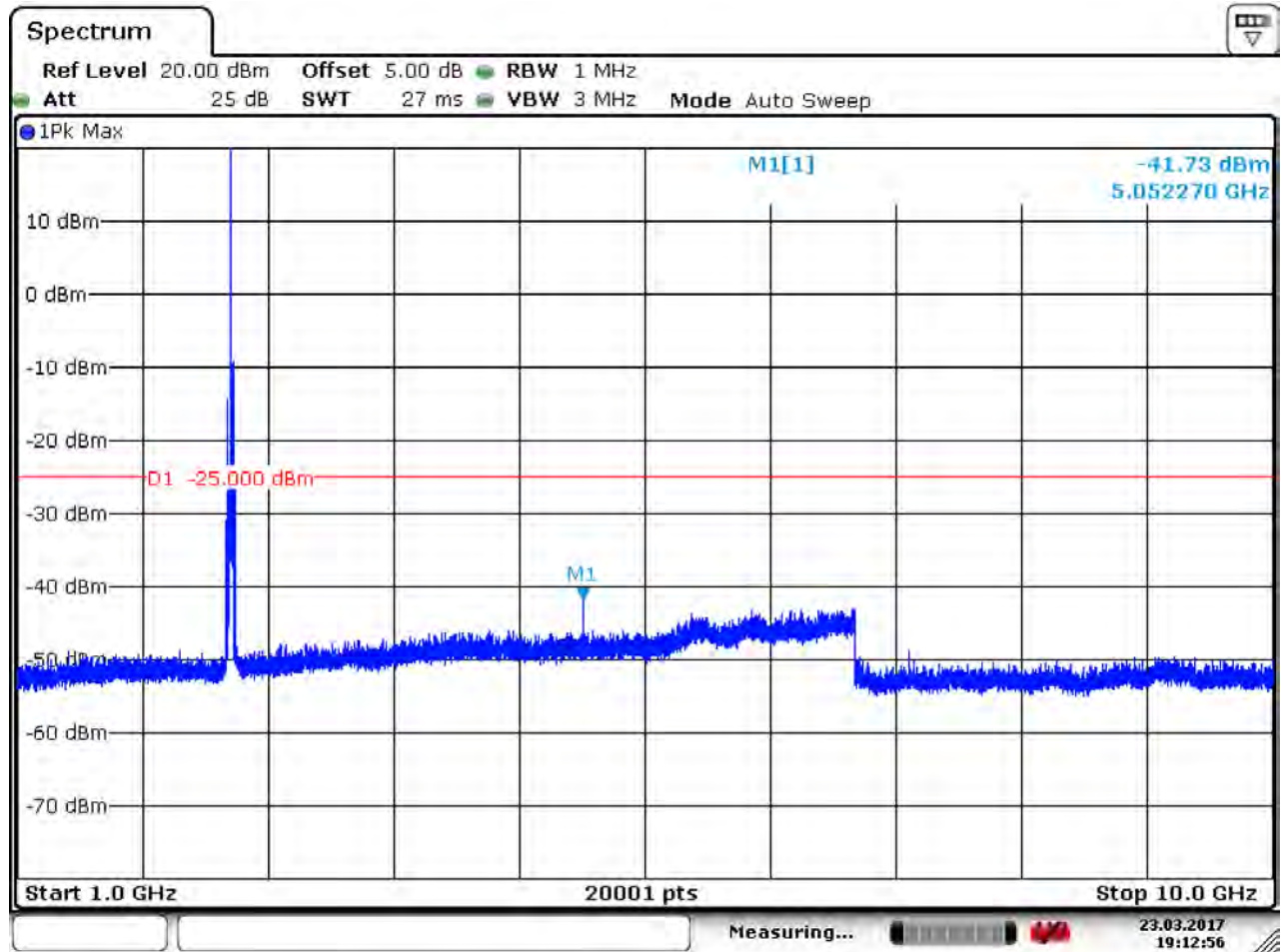
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6.1.1.4.2 Test Channel = MCH



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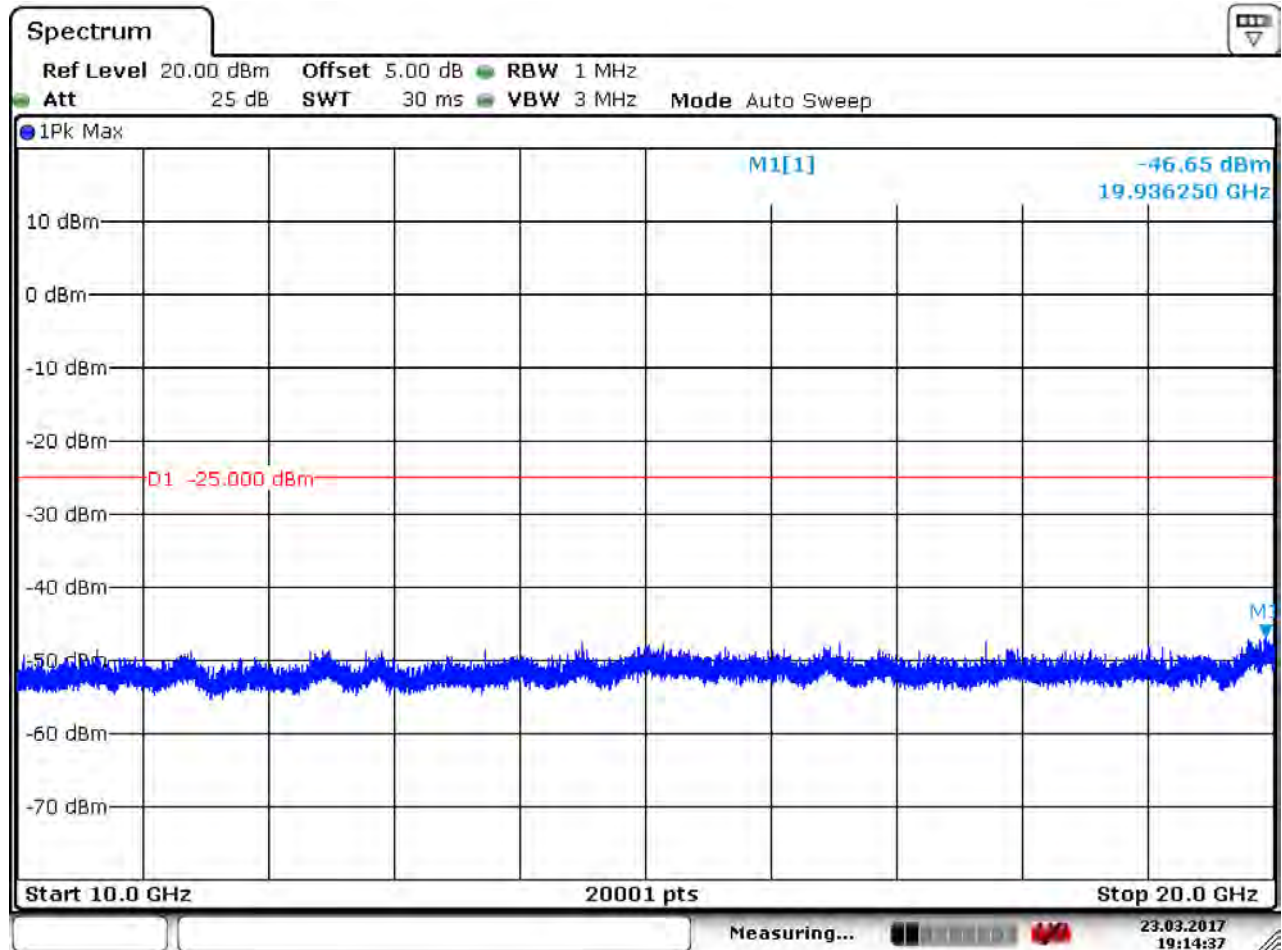
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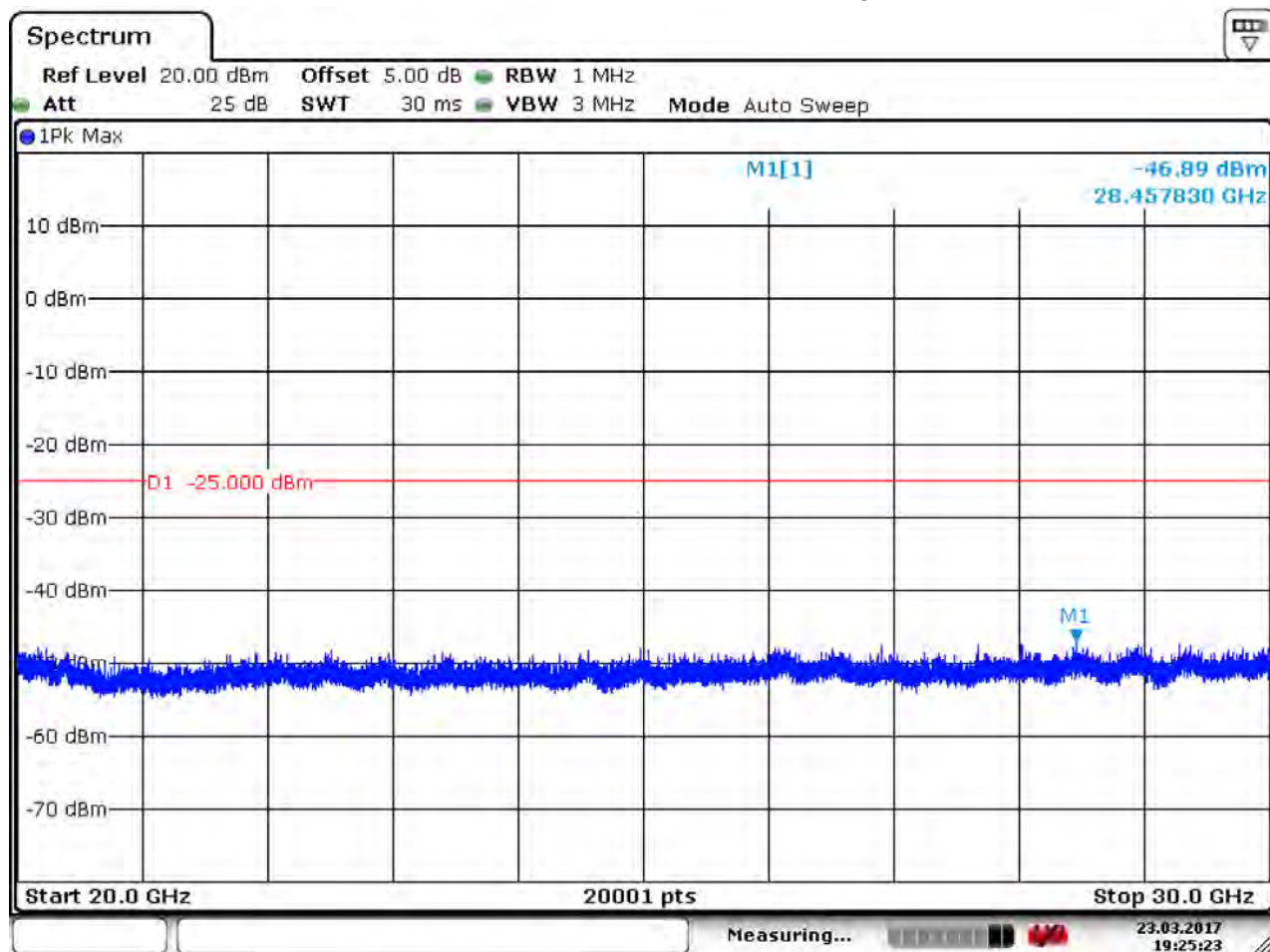
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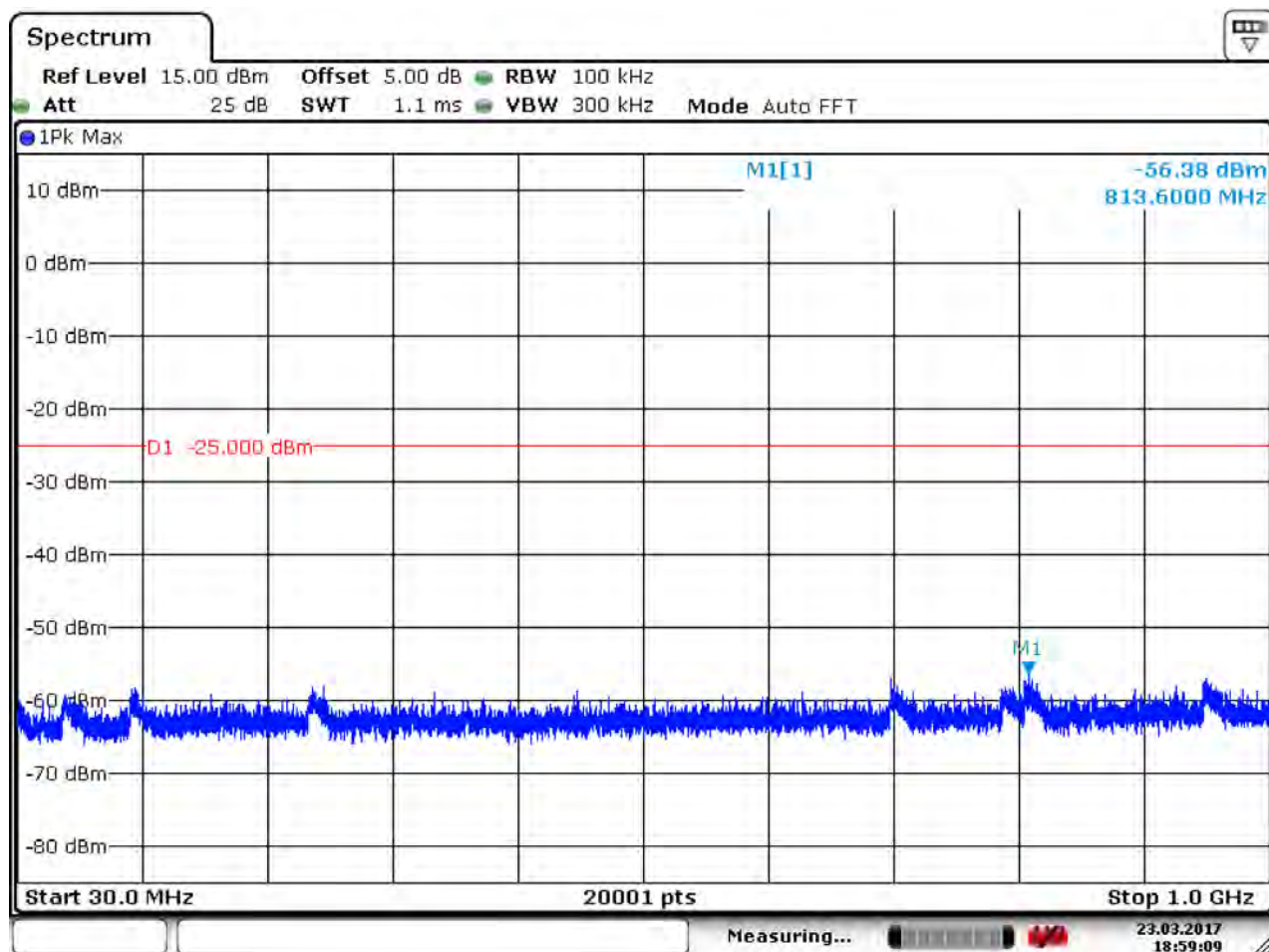
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6.1.1.4.3 Test Channel = HCH



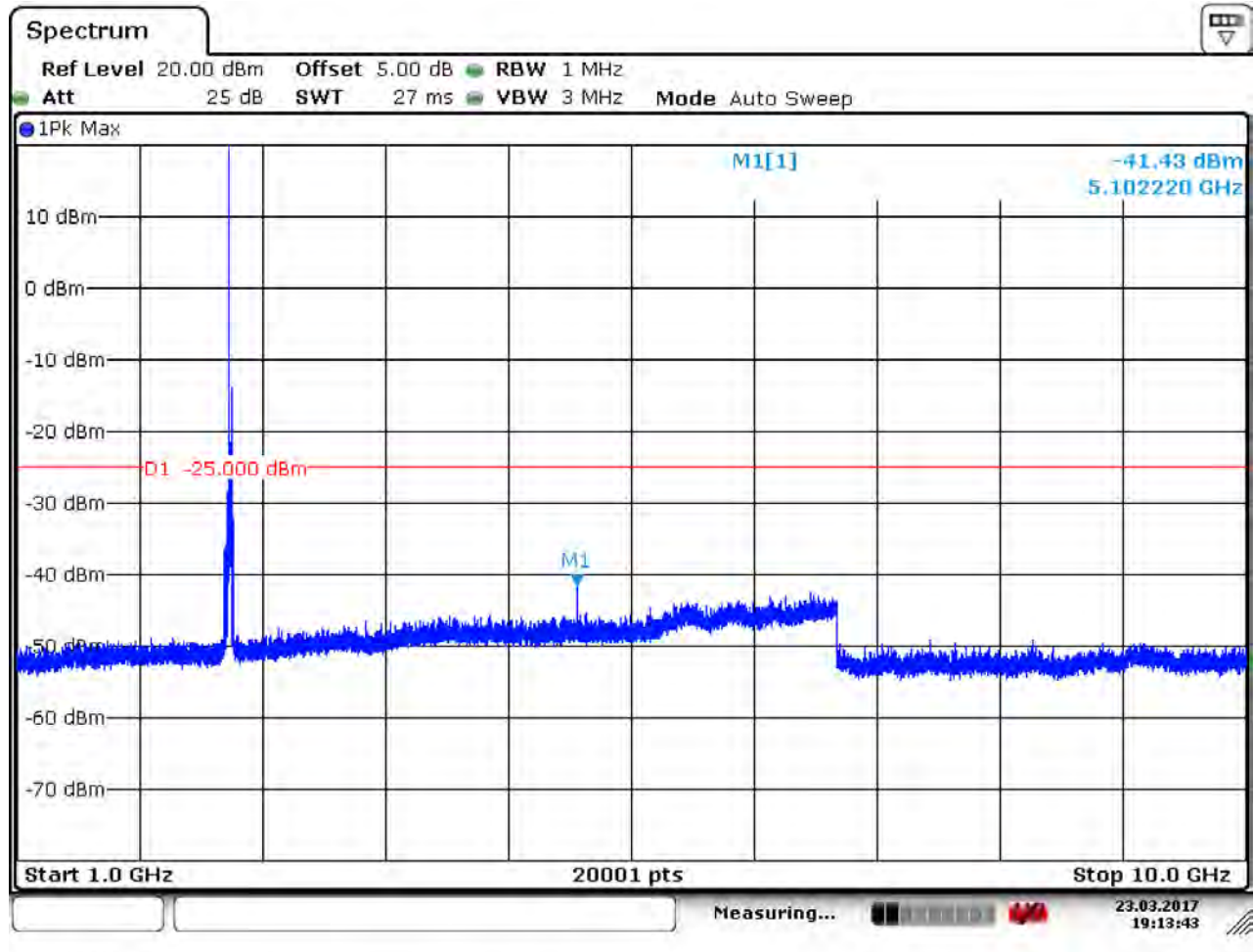
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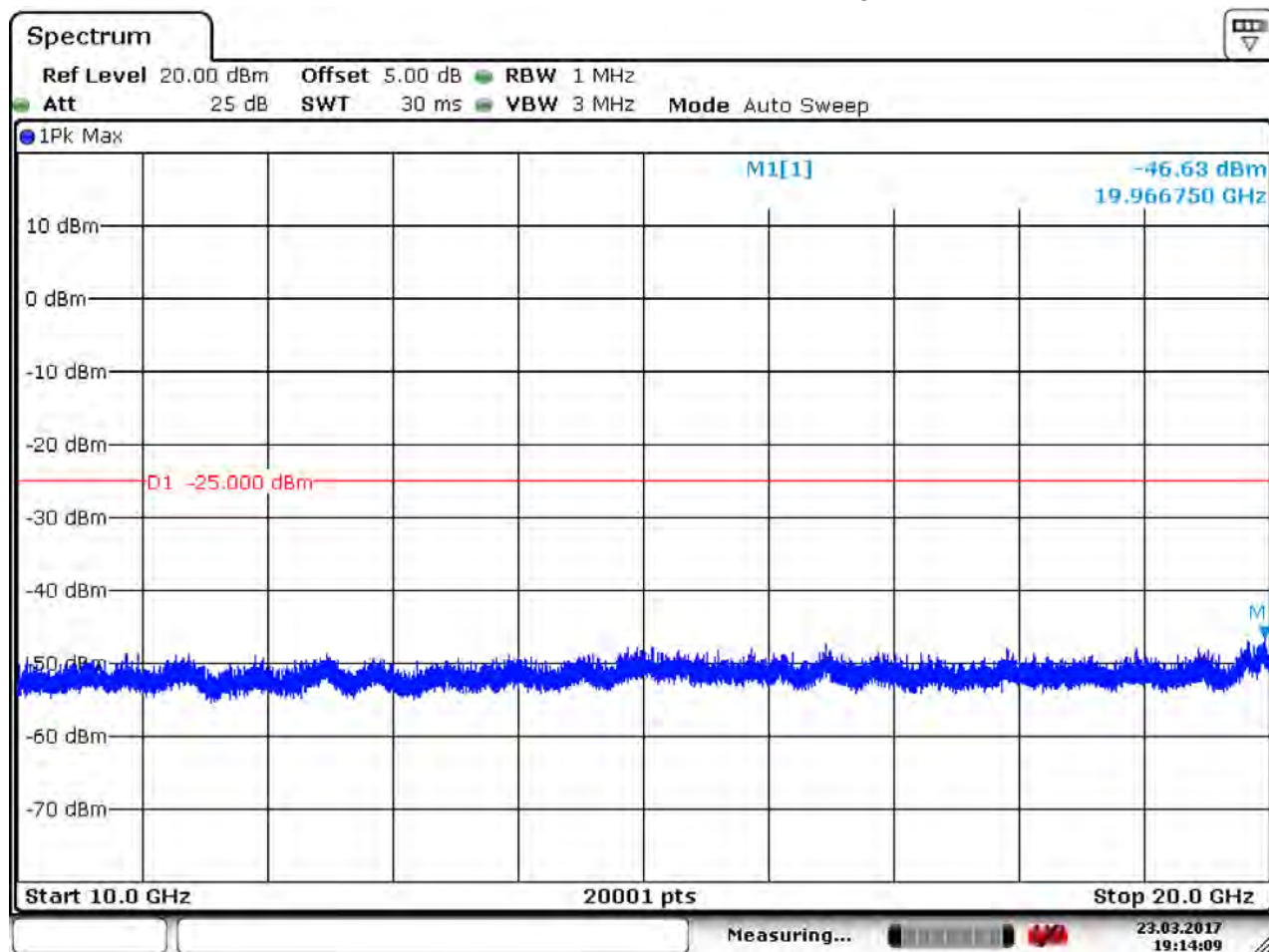
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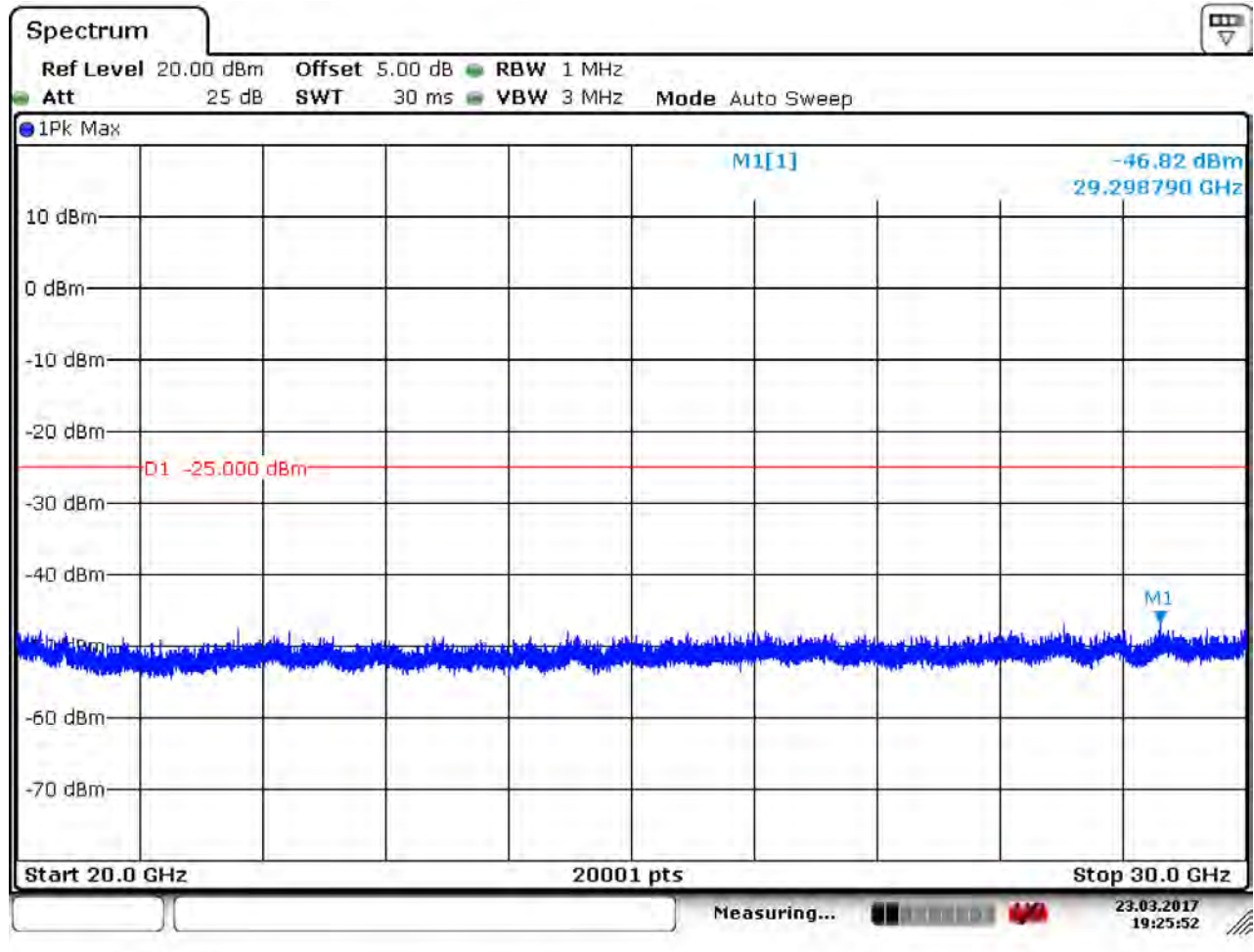
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band7

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
1210.000	-65.96	-25.00	-40.96	Vertical
2296.000	-59.20	-25.00	-34.20	Vertical
6900.000	-65.84	-25.00	-40.84	Vertical
1122.000	-66.98	-25.00	-41.98	Horizontal
2408.000	-58.78	-25.00	-33.78	Horizontal
5047.500	-67.59	-25.00	-42.59	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1254.000	-66.19	-25.00	-41.19	Vertical
2424.000	-58.80	-25.00	-33.80	Vertical
4950.000	-67.31	-25.00	-42.31	Vertical
1221.000	-66.96	-25.00	-41.96	Horizontal
2496.000	-58.91	-25.00	-33.91	Horizontal
4950.000	-67.67	-25.00	-42.67	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1397.000	-67.30	-25.00	-42.30	Vertical
2656.000	-57.33	-25.00	-32.33	Vertical
4852.500	-67.71	-25.00	-42.71	Vertical
1529.000	-65.89	-25.00	-40.89	Horizontal
2368.000	-58.85	-25.00	-33.85	Horizontal
4560.000	-68.50	-25.00	-43.50	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.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band7	LTE/TM1 20MHz	LCH	TN	VL	-3.03	-0.00121	PASS
				VN	1.46	0.00058	PASS
				VH	-6.23	-0.00248	PASS
		MCH	TN	VL	1.40	0.00055	PASS
				VN	-2.34	-0.00092	PASS
				VH	2.61	0.00103	PASS
		HCH	TN	VL	-4.56	-0.00178	PASS
				VN	-5.17	-0.00202	PASS
				VH	-1.29	-0.00050	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.20	-0.00167	PASS
				VN	-2.45	-0.00098	PASS
				VH	-5.36	-0.00214	PASS
		MCH	TN	VL	1.26	0.00050	PASS
				VN	-2.80	-0.00110	PASS
				VH	2.76	0.00109	PASS
		HCH	TN	VL	-3.08	-0.00120	PASS
				VN	-8.20	-0.00320	PASS
				VH	4.44	0.00173	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM1 20MHz	LCH	VN	-30	-5.45	-0.00217	PASS
				-20	-1.24	-0.00049	PASS
				-10	4.38	0.00175	PASS
				0	1.75	0.00070	PASS
				10	-1.65	-0.00066	PASS
				20	0.11	0.00004	PASS
				30	-5.31	-0.00212	PASS
				40	-2.14	-0.00085	PASS
				50	3.59	0.00143	PASS
		MCH	VN	-30	-3.40	-0.00134	PASS
				-20	-5.95	-0.00235	PASS
				-10	-7.49	-0.00295	PASS
				0	-2.62	-0.00103	PASS
				10	-1.04	-0.00041	PASS
				20	-4.90	-0.00193	PASS
				30	-5.64	-0.00222	PASS
				40	-2.62	-0.00103	PASS
				50	-6.55	-0.00258	PASS
		HCH	VN	-30	3.54	0.00138	PASS
				-20	-1.49	-0.00058	PASS
				-10	3.53	0.00138	PASS
				0	-2.83	-0.00111	PASS
				10	2.40	0.00094	PASS
				20	-6.57	-0.00257	PASS
				30	-2.66	-0.00104	PASS
				40	-2.43	-0.00095	PASS
				50	-7.42	-0.00290	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM2 20MHz	LCH	VN	-30	-3.50	-0.00139	PASS
				-20	-2.65	-0.00106	PASS
				-10	3.38	0.00135	PASS
				0	2.64	0.00105	PASS
				10	1.60	0.00064	PASS
				20	-0.23	-0.00009	PASS
				30	-4.40	-0.00175	PASS
				40	5.34	0.00213	PASS
				50	2.79	0.00111	PASS
		MCH	VN	-30	-3.80	-0.00150	PASS
				-20	-5.32	-0.00210	PASS
				-10	-7.29	-0.00288	PASS
				0	-4.11	-0.00162	PASS
				10	-0.34	-0.00013	PASS
				20	1.84	0.00073	PASS
				30	-3.64	-0.00144	PASS
				40	-2.32	-0.00092	PASS
				50	-5.91	-0.00233	PASS
		HCH	VN	-30	1.74	0.00068	PASS
				-20	-4.55	-0.00178	PASS
				-10	1.29	0.00050	PASS
				0	-5.73	-0.00224	PASS
				10	2.88	0.00113	PASS
				20	-1.87	-0.00073	PASS
				30	-2.39	-0.00093	PASS
				40	-4.13	-0.00161	PASS
				50	-7.40	-0.00289	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM3 20MHz	LCH	VN	-30	1.50	0.00081	PASS
				-20	-1.60	-0.00086	PASS
				-10	4.38	0.00235	PASS
				0	1.69	0.00091	PASS
				10	1.43	0.00077	PASS
				20	0.54	0.00029	PASS
				30	-2.61	-0.00140	PASS
				40	-0.69	-0.00037	PASS
				50	3.52	0.00189	PASS
		MCH	VN	-30	-7.34	-0.00390	PASS
				-20	-5.33	-0.00284	PASS
				-10	-7.23	-0.00385	PASS
				0	-5.34	-0.00284	PASS
				10	-4.04	-0.00215	PASS
				20	-6.34	-0.00337	PASS
				30	-5.26	-0.00280	PASS
				40	-4.13	-0.00220	PASS
				50	-6.47	-0.00344	PASS
		HCH	VN	-30	2.34	0.00123	PASS
				-20	-1.83	-0.00096	PASS
				-10	1.57	0.00083	PASS
				0	-2.43	-0.00128	PASS
				10	1.60	0.00084	PASS
				20	-0.57	-0.00030	PASS
				30	0.66	0.00035	PASS
				40	-5.43	-0.00286	PASS
				50	-5.90	-0.00311	PASS

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