



Appendix B

Test Data for SZEM170100023101



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND41

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND41	LTE/TM1	5M	LCH	RB1#0	17.20	21.80	33.00	PASS
				RB1#13	17.23	21.83	33.00	PASS
				RB1#24	17.14	21.74	33.00	PASS
				RB12#0	17.29	21.89	33.00	PASS
				RB12#6	17.33	21.93	33.00	PASS
				RB12#13	17.21	21.81	33.00	PASS
				RB25#0	17.29	21.89	33.00	PASS
			MCH	RB1#0	17.14	21.74	33.00	PASS
				RB1#13	17.15	21.75	33.00	PASS
				RB1#24	17.01	21.61	33.00	PASS
				RB12#0	17.13	21.73	33.00	PASS
				RB12#6	17.17	21.77	33.00	PASS
				RB12#13	17.12	21.72	33.00	PASS
				RB25#0	17.20	21.80	33.00	PASS
			HCH	RB1#0	16.97	21.57	33.00	PASS
				RB1#13	16.97	21.57	33.00	PASS
				RB1#24	16.82	21.42	33.00	PASS
				RB12#0	16.94	21.54	33.00	PASS
				RB12#6	16.96	21.56	33.00	PASS
				RB12#13	16.87	21.47	33.00	PASS
				RB25#0	17.01	21.61	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
BAND41	LTE/TM2	5M	LCH	RB1#0	17.36	21.96	33.00	PASS
				RB1#13	17.34	21.94	33.00	PASS
				RB1#24	17.34	21.94	33.00	PASS
				RB12#0	17.32	21.92	33.00	PASS
				RB12#6	17.31	21.91	33.00	PASS
				RB12#13	17.32	21.92	33.00	PASS
				RB25#0	17.33	21.93	33.00	PASS
			MCH	RB1#0	17.28	21.88	33.00	PASS
				RB1#13	17.32	21.92	33.00	PASS
				RB1#24	17.22	21.82	33.00	PASS
				RB12#0	17.21	21.81	33.00	PASS
				RB12#6	17.32	21.92	33.00	PASS
				RB12#13	17.13	21.73	33.00	PASS
				RB25#0	17.23	21.83	33.00	PASS
			HCH	RB1#0	17.12	21.72	33.00	PASS
				RB1#13	17.14	21.74	33.00	PASS
				RB1#24	17.04	21.64	33.00	PASS
				RB12#0	17.03	21.63	33.00	PASS
				RB12#6	17.02	21.62	33.00	PASS
				RB12#13	16.95	21.55	33.00	PASS
				RB25#0	17.03	21.63	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
BAND41	LTE/TM3	5M	LCH	RB1#0	17.74	22.34	33.00	PASS
				RB1#13	17.77	22.37	33.00	PASS
				RB1#24	17.71	22.31	33.00	PASS
				RB12#0	17.41	22.01	33.00	PASS
				RB12#6	17.34	21.94	33.00	PASS
				RB12#13	17.26	21.86	33.00	PASS
				RB25#0	17.16	21.76	33.00	PASS
			MCH	RB1#0	17.31	21.91	33.00	PASS
				RB1#13	17.38	21.98	33.00	PASS
				RB1#24	17.27	21.87	33.00	PASS
				RB12#0	17.30	21.90	33.00	PASS
				RB12#6	17.32	21.92	33.00	PASS
				RB12#13	17.21	21.81	33.00	PASS
				RB25#0	17.26	21.86	33.00	PASS
			HCH	RB1#0	17.43	22.03	33.00	PASS
				RB1#13	17.39	21.99	33.00	PASS
				RB1#24	17.32	21.92	33.00	PASS
				RB12#0	17.06	21.66	33.00	PASS
				RB12#6	17.05	21.65	33.00	PASS
				RB12#13	17.03	21.63	33.00	PASS
				RB25#0	16.99	21.59	33.00	PASS

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BAND41	LTE/TM1	10M	LCH	RB1#0	17.26	21.86	33.00	PASS
				RB1#25	17.16	21.76	33.00	PASS
				RB1#49	17.07	21.67	33.00	PASS
				RB25#0	17.38	21.98	33.00	PASS
				RB25#13	17.37	21.97	33.00	PASS
				RB25#25	17.29	21.89	33.00	PASS
				RB50#0	17.33	21.93	33.00	PASS
			MCH	RB1#0	17.22	21.82	33.00	PASS
				RB1#25	17.05	21.65	33.00	PASS
				RB1#49	17.04	21.64	33.00	PASS
				RB25#0	17.18	21.78	33.00	PASS
				RB25#13	17.24	21.84	33.00	PASS
				RB25#25	17.17	21.77	33.00	PASS
				RB50#0	17.17	21.77	33.00	PASS
			HCH	RB1#0	17.03	21.63	33.00	PASS
				RB1#25	16.89	21.49	33.00	PASS
				RB1#49	16.89	21.49	33.00	PASS
				RB25#0	17.03	21.63	33.00	PASS
				RB25#13	17.04	21.64	33.00	PASS
				RB25#25	16.93	21.53	33.00	PASS
				RB50#0	17.02	21.62	33.00	PASS

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BAND41	LTE/TM2	10M	LCH	RB1#0	17.45	22.05	33.00	PASS
				RB1#25	17.38	21.98	33.00	PASS
				RB1#49	17.37	21.97	33.00	PASS
				RB25#0	17.34	21.94	33.00	PASS
				RB25#13	17.35	21.95	33.00	PASS
				RB25#25	17.31	21.91	33.00	PASS
				RB50#0	17.30	21.90	33.00	PASS
			MCH	RB1#0	17.41	22.01	33.00	PASS
				RB1#25	17.23	21.83	33.00	PASS
				RB1#49	17.21	21.81	33.00	PASS
				RB25#0	17.27	21.87	33.00	PASS
				RB25#13	17.23	21.83	33.00	PASS
				RB25#25	17.16	21.76	33.00	PASS
				RB50#0	17.21	21.81	33.00	PASS
			HCH	RB1#0	17.24	21.84	33.00	PASS
				RB1#25	17.16	21.76	33.00	PASS
				RB1#49	17.09	21.69	33.00	PASS
				RB25#0	17.05	21.65	33.00	PASS
				RB25#13	17.03	21.63	33.00	PASS
				RB25#25	16.92	21.52	33.00	PASS
				RB50#0	17.01	21.61	33.00	PASS

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BAND41	LTE/TM3	10M	LCH	RB1#0	17.78	22.38	33.00	PASS
				RB1#25	17.68	22.28	33.00	PASS
				RB1#49	17.66	22.26	33.00	PASS
				RB25#0	17.26	21.86	33.00	PASS
				RB25#13	17.17	21.77	33.00	PASS
				RB25#25	17.23	21.83	33.00	PASS
				RB50#0	17.21	21.81	33.00	PASS
			MCH	RB1#0	17.19	21.79	33.00	PASS
				RB1#25	17.07	21.67	33.00	PASS
				RB1#49	17.00	21.60	33.00	PASS
				RB25#0	17.31	21.91	33.00	PASS
				RB25#13	17.25	21.85	33.00	PASS
				RB25#25	17.21	21.81	33.00	PASS
				RB50#0	17.22	21.82	33.00	PASS
			HCH	RB1#0	17.37	21.97	33.00	PASS
				RB1#25	17.24	21.84	33.00	PASS
				RB1#49	17.21	21.81	33.00	PASS
				RB25#0	17.07	21.67	33.00	PASS
				RB25#13	17.07	21.67	33.00	PASS
				RB25#25	16.97	21.57	33.00	PASS
				RB50#0	17.09	21.69	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
BAND41	LTE/TM1	15M	LCH	RB1#0	17.22	21.82	33.00	PASS
				RB1#38	17.04	21.64	33.00	PASS
				RB1#74	16.98	21.58	33.00	PASS
				RB36#0	17.28	21.88	33.00	PASS
				RB36#18	17.22	21.82	33.00	PASS
				RB36#39	17.15	21.75	33.00	PASS
				RB75#0	17.13	21.73	33.00	PASS
			MCH	RB1#0	17.30	21.90	33.00	PASS
				RB1#38	17.13	21.73	33.00	PASS
				RB1#74	17.04	21.64	33.00	PASS
				RB36#0	17.24	21.84	33.00	PASS
				RB36#18	17.13	21.73	33.00	PASS
				RB36#39	17.10	21.70	33.00	PASS
				RB75#0	17.16	21.76	33.00	PASS
			HCH	RB1#0	17.08	21.68	33.00	PASS
				RB1#38	16.90	21.50	33.00	PASS
				RB1#74	16.82	21.42	33.00	PASS
				RB36#0	17.00	21.60	33.00	PASS
				RB36#18	16.97	21.57	33.00	PASS
				RB36#39	16.84	21.44	33.00	PASS
				RB75#0	16.95	21.55	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
BAND41	LTE/TM2	15M	LCH	RB1#0	17.42	22.02	33.00	PASS
				RB1#38	17.21	21.81	33.00	PASS
				RB1#74	17.23	21.83	33.00	PASS
				RB36#0	17.23	21.83	33.00	PASS
				RB36#18	17.21	21.81	33.00	PASS
				RB36#39	17.12	21.72	33.00	PASS
				RB75#0	17.18	21.78	33.00	PASS
			MCH	RB1#0	17.42	22.02	33.00	PASS
				RB1#38	17.27	21.87	33.00	PASS
				RB1#74	17.18	21.78	33.00	PASS
				RB36#0	17.20	21.80	33.00	PASS
				RB36#18	17.13	21.73	33.00	PASS
				RB36#39	17.13	21.73	33.00	PASS
				RB75#0	17.19	21.79	33.00	PASS
			HCH	RB1#0	17.25	21.85	33.00	PASS
				RB1#38	17.03	21.63	33.00	PASS
				RB1#74	16.93	21.53	33.00	PASS
				RB36#0	16.99	21.59	33.00	PASS
				RB36#18	16.91	21.51	33.00	PASS
				RB36#39	16.79	21.39	33.00	PASS
				RB75#0	16.92	21.52	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
BAND41	LTE/TM3	15M	LCH	RB1#0	17.74	22.34	33.00	PASS
				RB1#38	17.58	22.18	33.00	PASS
				RB1#74	17.59	22.19	33.00	PASS
				RB36#0	17.26	21.86	33.00	PASS
				RB36#18	17.25	21.85	33.00	PASS
				RB36#39	17.08	21.68	33.00	PASS
				RB75#0	17.12	21.72	33.00	PASS
			MCH	RB1#0	17.21	21.81	33.00	PASS
				RB1#38	17.06	21.66	33.00	PASS
				RB1#74	17.03	21.63	33.00	PASS
				RB36#0	17.26	21.86	33.00	PASS
				RB36#18	17.28	21.88	33.00	PASS
				RB36#39	17.18	21.78	33.00	PASS
				RB75#0	17.19	21.79	33.00	PASS
			HCH	RB1#0	17.32	21.92	33.00	PASS
				RB1#38	17.13	21.73	33.00	PASS
				RB1#74	17.00	21.60	33.00	PASS
				RB36#0	17.05	21.65	33.00	PASS
				RB36#18	17.08	21.68	33.00	PASS
				RB36#39	16.97	21.57	33.00	PASS
				RB75#0	17.07	21.67	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
BAND41	LTE/TM1	20M	LCH	RB1#0	17.28	21.88	33.00	PASS
				RB1#50	17.02	21.62	33.00	PASS
				RB1#99	17.03	21.63	33.00	PASS
				RB50#0	17.12	21.72	33.00	PASS
				RB50#25	17.11	21.71	33.00	PASS
				RB50#50	17.01	21.61	33.00	PASS
				RB100#0	17.01	21.61	33.00	PASS
			MCH	RB1#0	17.48	22.08	33.00	PASS
				RB1#50	17.29	21.89	33.00	PASS
				RB1#99	17.12	21.72	33.00	PASS
				RB50#0	17.28	21.88	33.00	PASS
				RB50#25	17.23	21.83	33.00	PASS
				RB50#50	17.14	21.74	33.00	PASS
				RB100#0	17.19	21.79	33.00	PASS
			HCH	RB1#0	17.25	21.85	33.00	PASS
				RB1#50	17.01	21.61	33.00	PASS
				RB1#99	17.02	21.62	33.00	PASS
				RB50#0	17.08	21.68	33.00	PASS
				RB50#25	17.01	21.61	33.00	PASS
				RB50#50	17.02	21.62	33.00	PASS
				RB100#0	17.01	21.61	33.00	PASS

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Shenzhen Branch

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND41	LTE/TM2	20M	LCH	RB1#0	17.58	22.18	33.00	PASS
				RB1#50	17.33	21.93	33.00	PASS
				RB1#99	17.25	21.85	33.00	PASS
				RB50#0	17.16	21.76	33.00	PASS
				RB50#25	17.14	21.74	33.00	PASS
				RB50#50	17.03	21.63	33.00	PASS
				RB100#0	17.07	21.67	33.00	PASS
			MCH	RB1#0	17.59	22.19	33.00	PASS
				RB1#50	17.38	21.98	33.00	PASS
				RB1#99	17.17	21.77	33.00	PASS
				RB50#0	17.29	21.89	33.00	PASS
				RB50#25	17.22	21.82	33.00	PASS
				RB50#50	17.16	21.76	33.00	PASS
				RB100#0	17.20	21.80	33.00	PASS
			HCH	RB1#0	17.57	22.17	33.00	PASS
				RB1#50	17.36	21.96	33.00	PASS
				RB1#99	17.22	21.82	33.00	PASS
				RB50#0	17.13	21.73	33.00	PASS
				RB50#25	17.07	21.67	33.00	PASS
				RB50#50	17.02	21.62	33.00	PASS
				RB100#0	17.00	21.60	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
BAND41	LTE/TM3	20M	LCH	RB1#0	17.35	21.95	33.00	PASS
				RB1#50	17.22	21.82	33.00	PASS
				RB1#99	17.23	21.83	33.00	PASS
				RB50#0	17.18	21.78	33.00	PASS
				RB50#25	17.10	21.70	33.00	PASS
				RB50#50	17.04	21.64	33.00	PASS
				RB100#0	17.07	21.67	33.00	PASS
			MCH	RB1#0	17.91	22.51	33.00	PASS
				RB1#50	17.73	22.33	33.00	PASS
				RB1#99	17.68	22.28	33.00	PASS
				RB50#0	17.29	21.89	33.00	PASS
				RB50#25	17.17	21.77	33.00	PASS
				RB50#50	17.10	21.70	33.00	PASS
				RB100#0	17.14	21.74	33.00	PASS
			HCH	RB1#0	17.68	22.28	33.00	PASS
				RB1#50	17.45	22.05	33.00	PASS
				RB1#99	17.34	21.94	33.00	PASS
				RB50#0	17.21	21.81	33.00	PASS
				RB50#25	17.12	21.72	33.00	PASS
				RB50#50	17.06	21.66	33.00	PASS
				RB100#0	17.09	21.69	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 41	TM1/20M	LCH	5.07	13	PASS
		MCH	4.87	13	PASS
		HCH	4.93	13	PASS
	TM2/20M	LCH	5.68	13	PASS
		MCH	5.62	13	PASS
		HCH	5.94	13	PASS
	TM3/20M	LCH	6.12	13	PASS
		MCH	6.12	13	PASS
		HCH	6.46	13	PASS



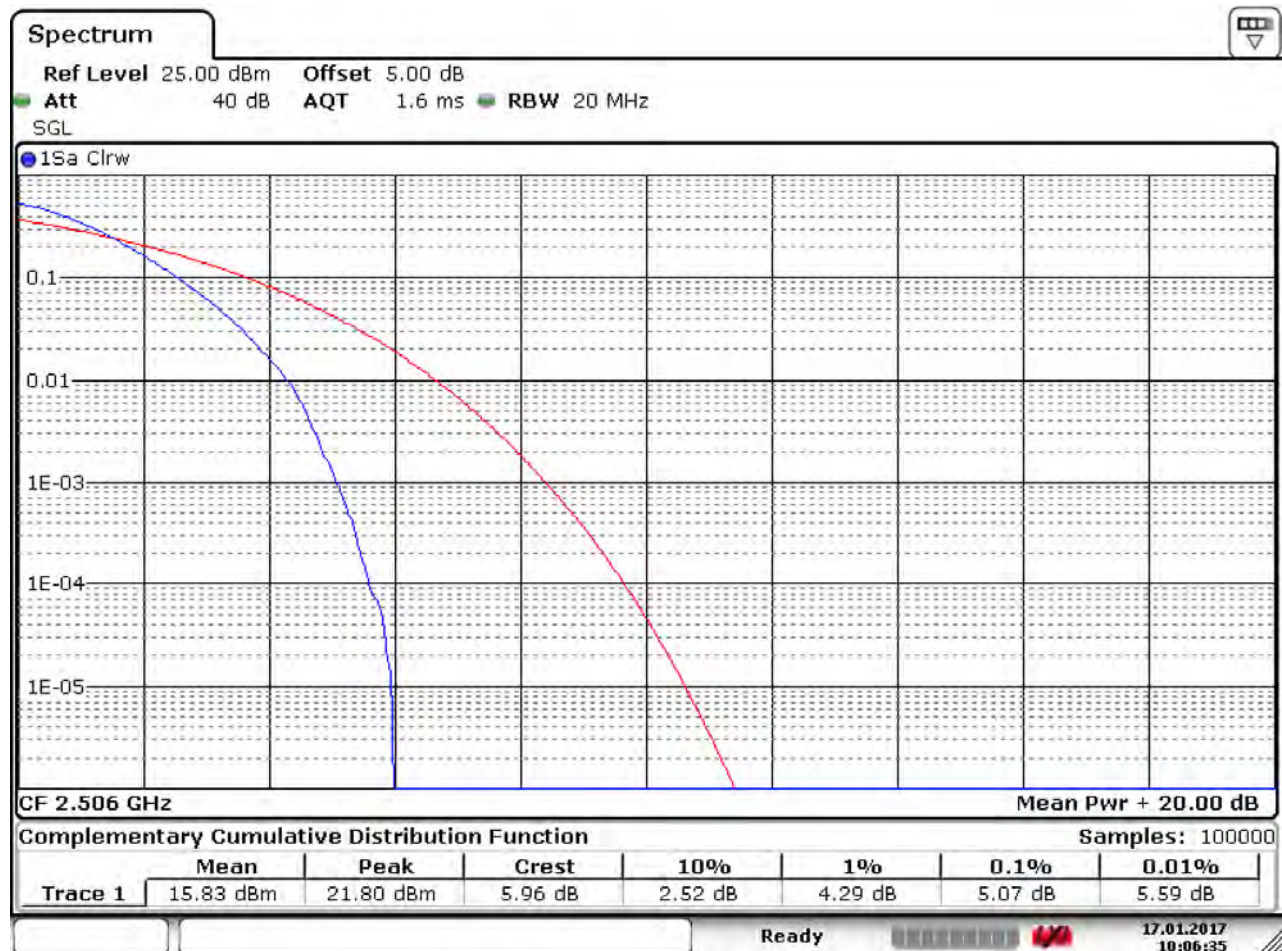
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band 41

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

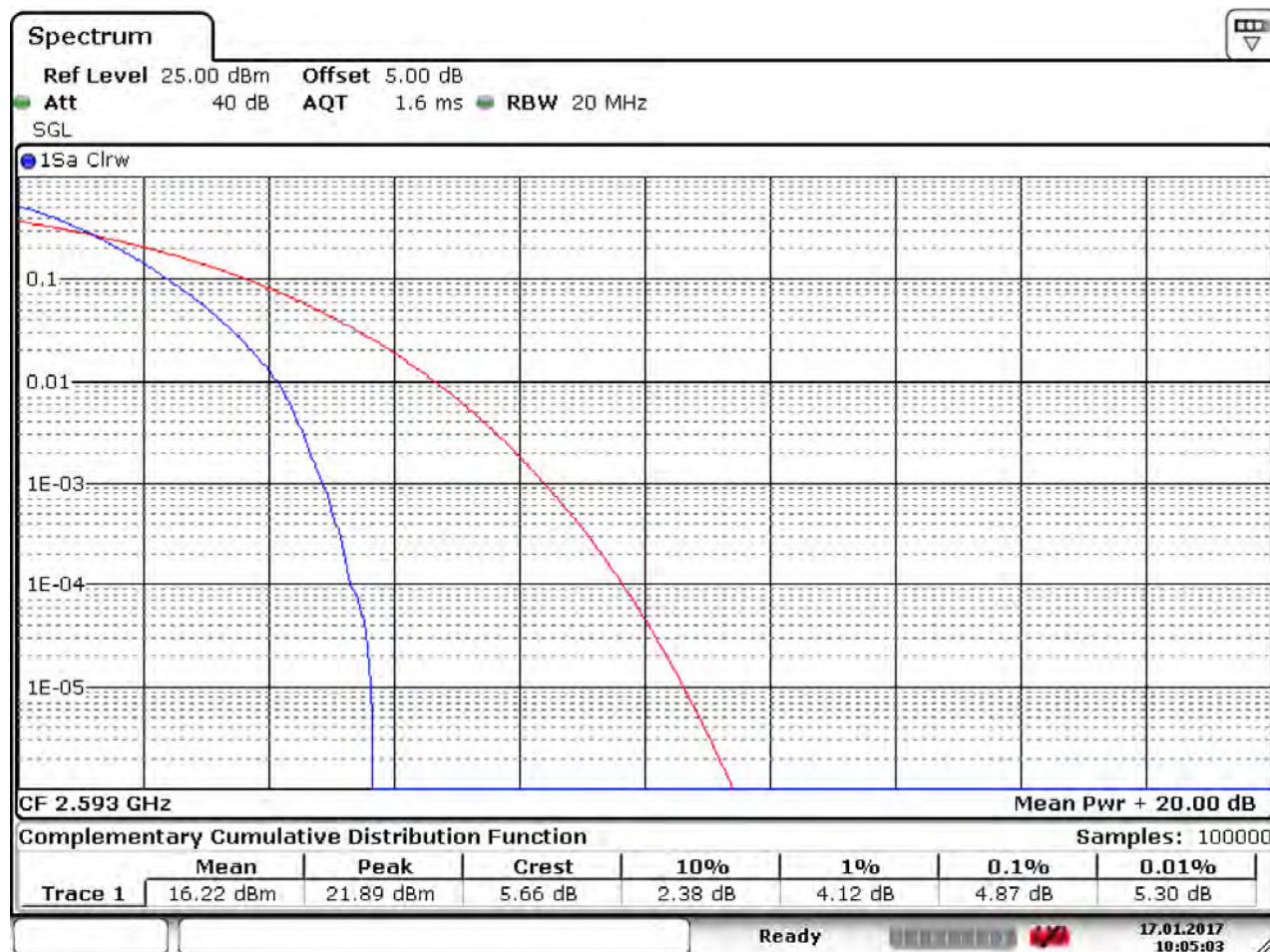
2.1.1.1.1 Test Channel = LCH



Date: 17.JAN.2017 10:06:35



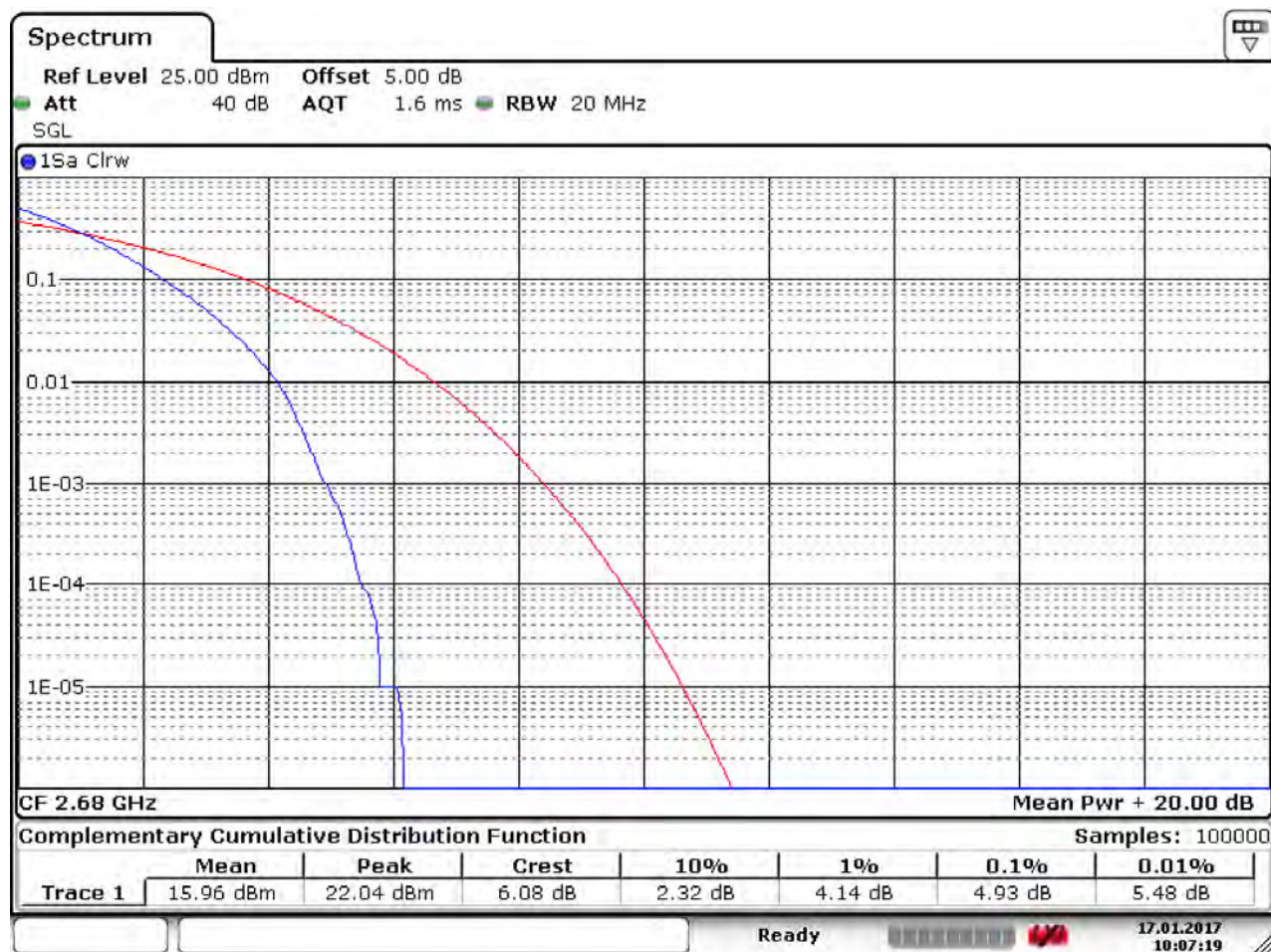
2.1.1.1.2 Test Channel = MCH



Date: 17.JAN.2017 10:05:03



2.1.1.1.3 Test Channel = HCH

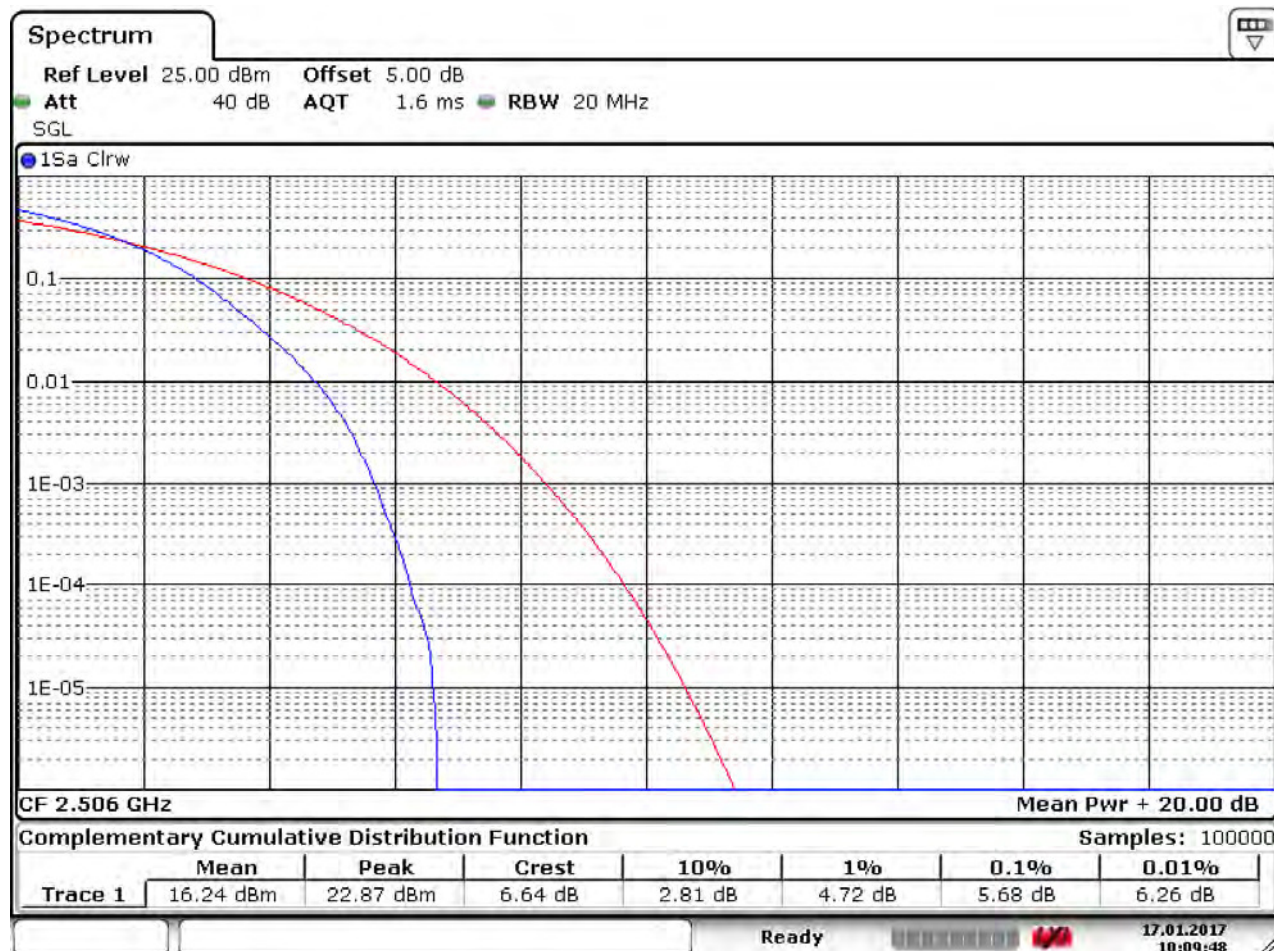


Date: 17.JAN.2017 10:07:20



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

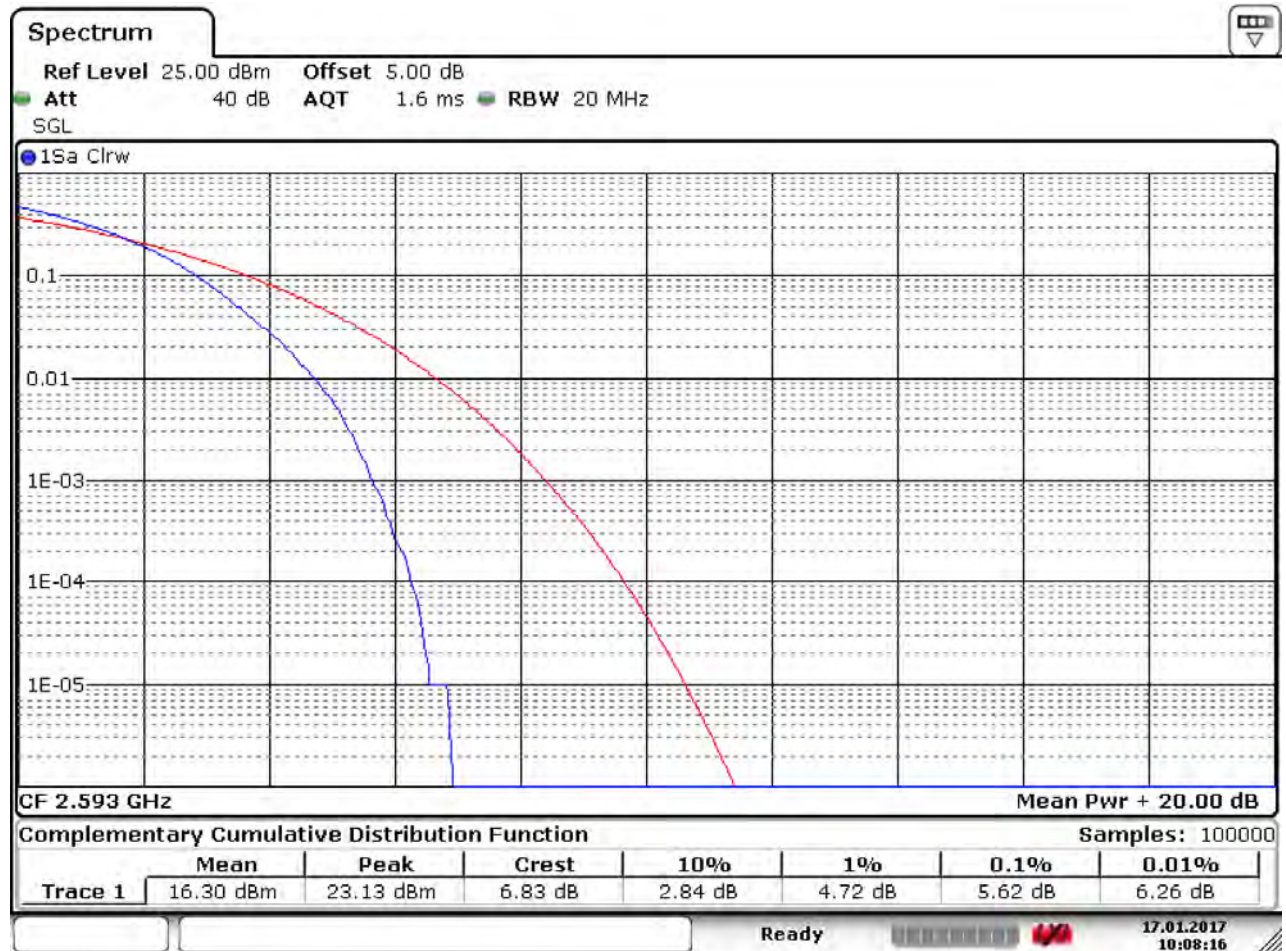
2.1.1.2.1 Test Channel = LCH



Date: 17.JAN.2017 10:09:49



2.1.1.2.2 Test Channel = MCH



Date: 17.JAN.2017 10:08:17



2.1.1.2.3 Test Channel = HCH

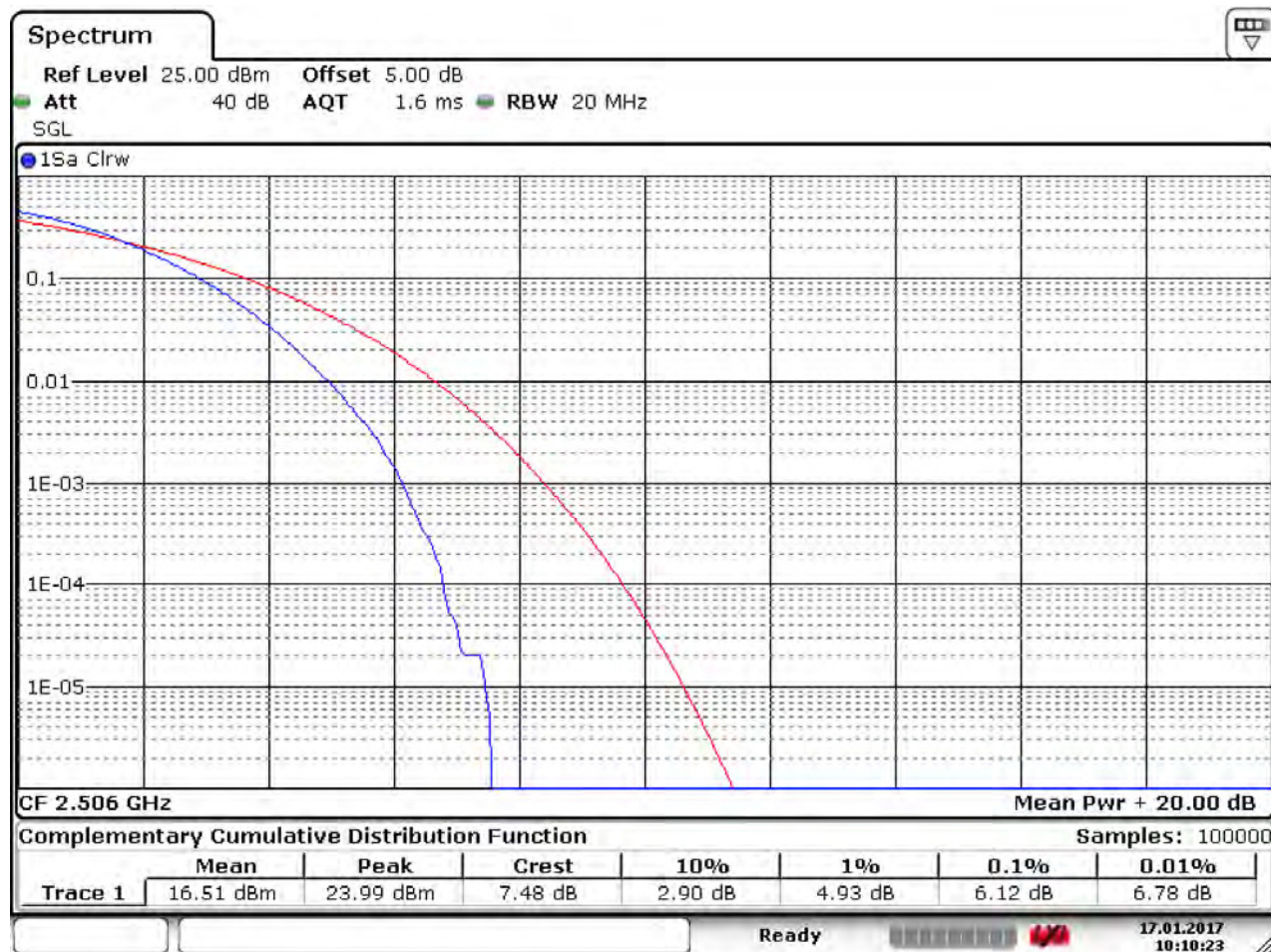


Date: 17.JAN.2017 10:07:49



2.1.1.3 Test Mode = LTE/TM3.Bandwidth=20MHz

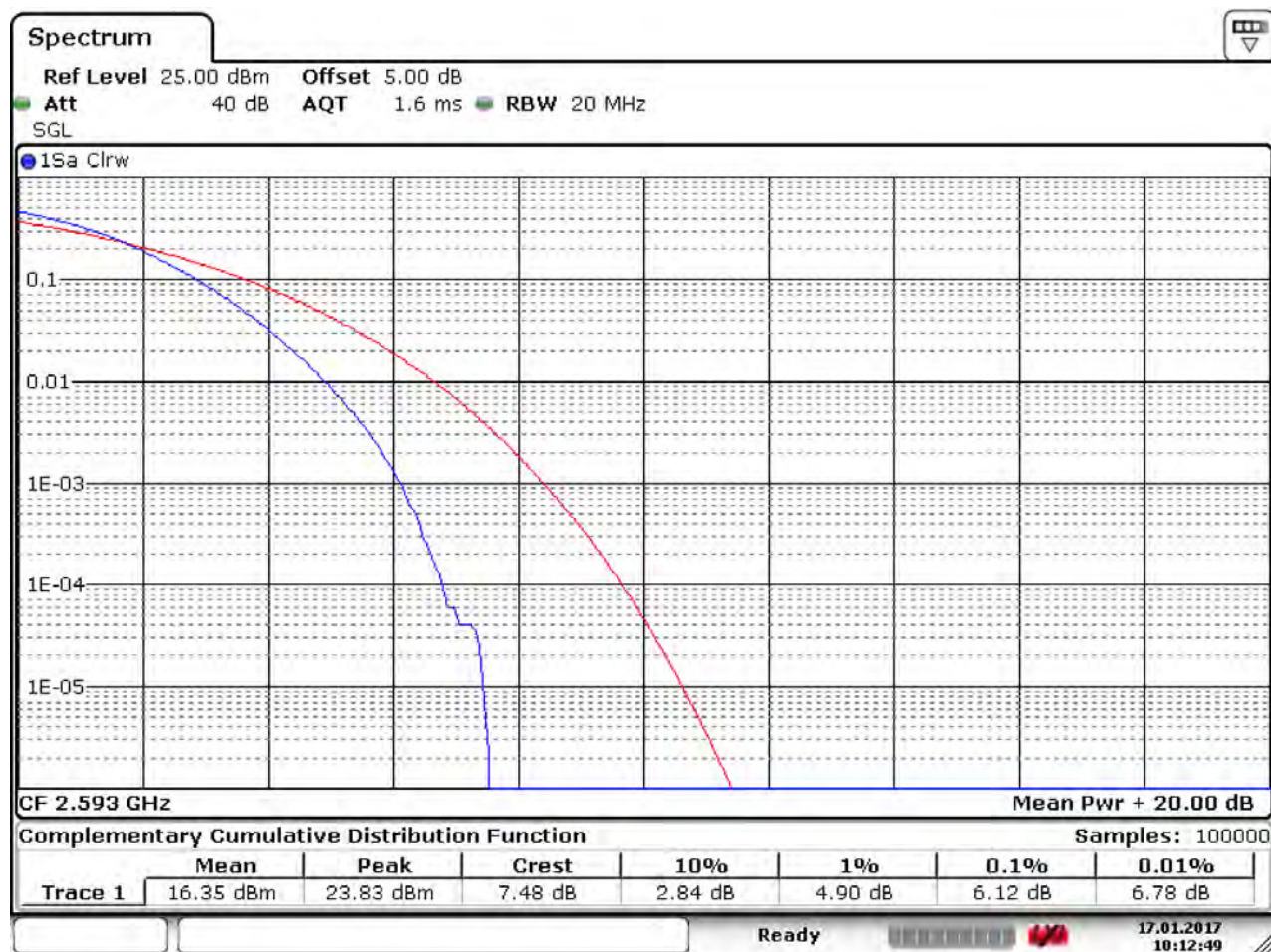
2.1.1.3.1 Test Channel = LCH



Date: 17.JAN.2017 10:10:23



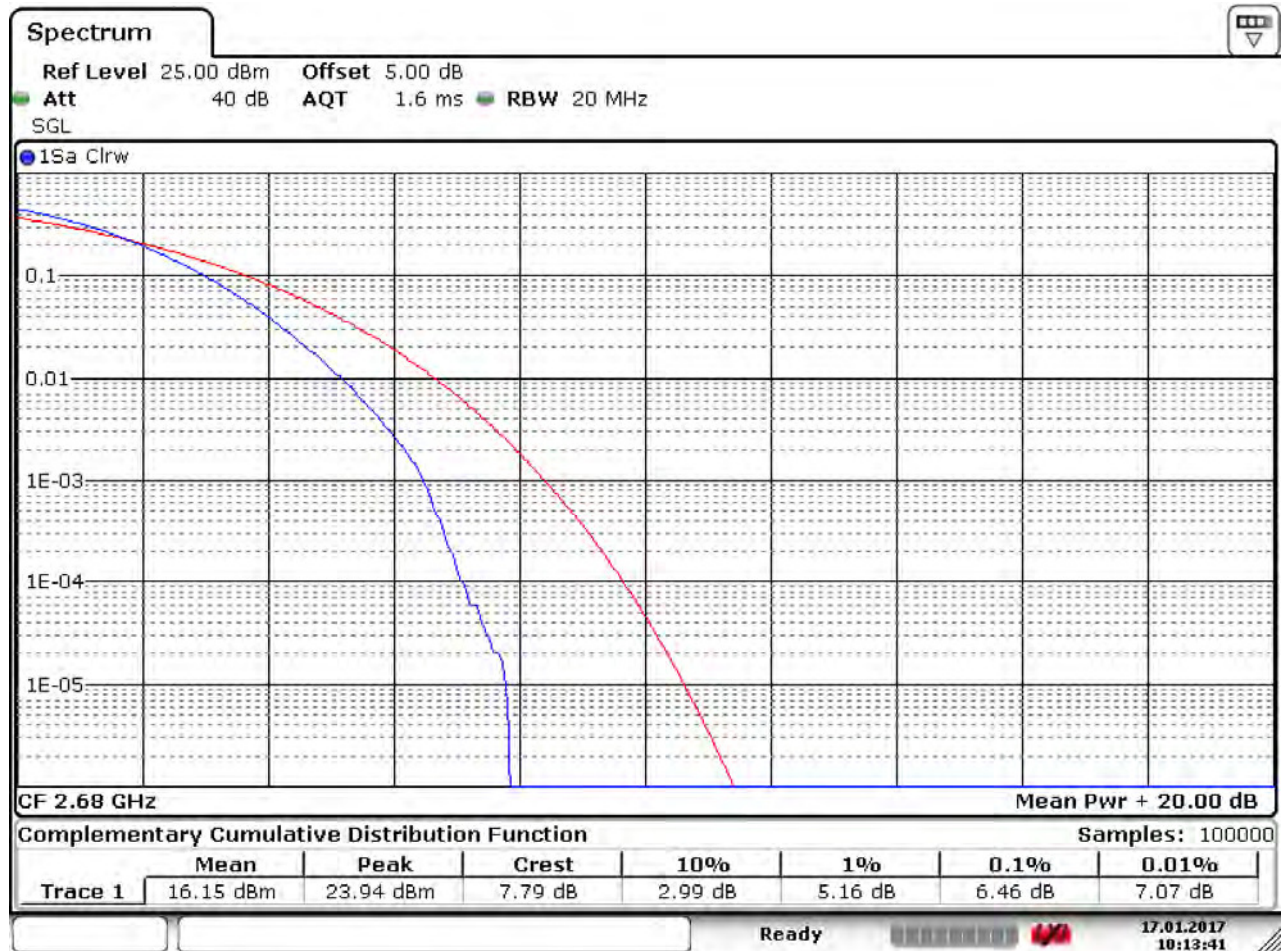
2.1.1.3.2 Test Channel = MCH



Date: 17. JAN. 2017 10:12:49



2.1.1.3.3 Test Channel = HCH



Date: 17.JAN.2017 10:13:41



3 Modulation Characteristics

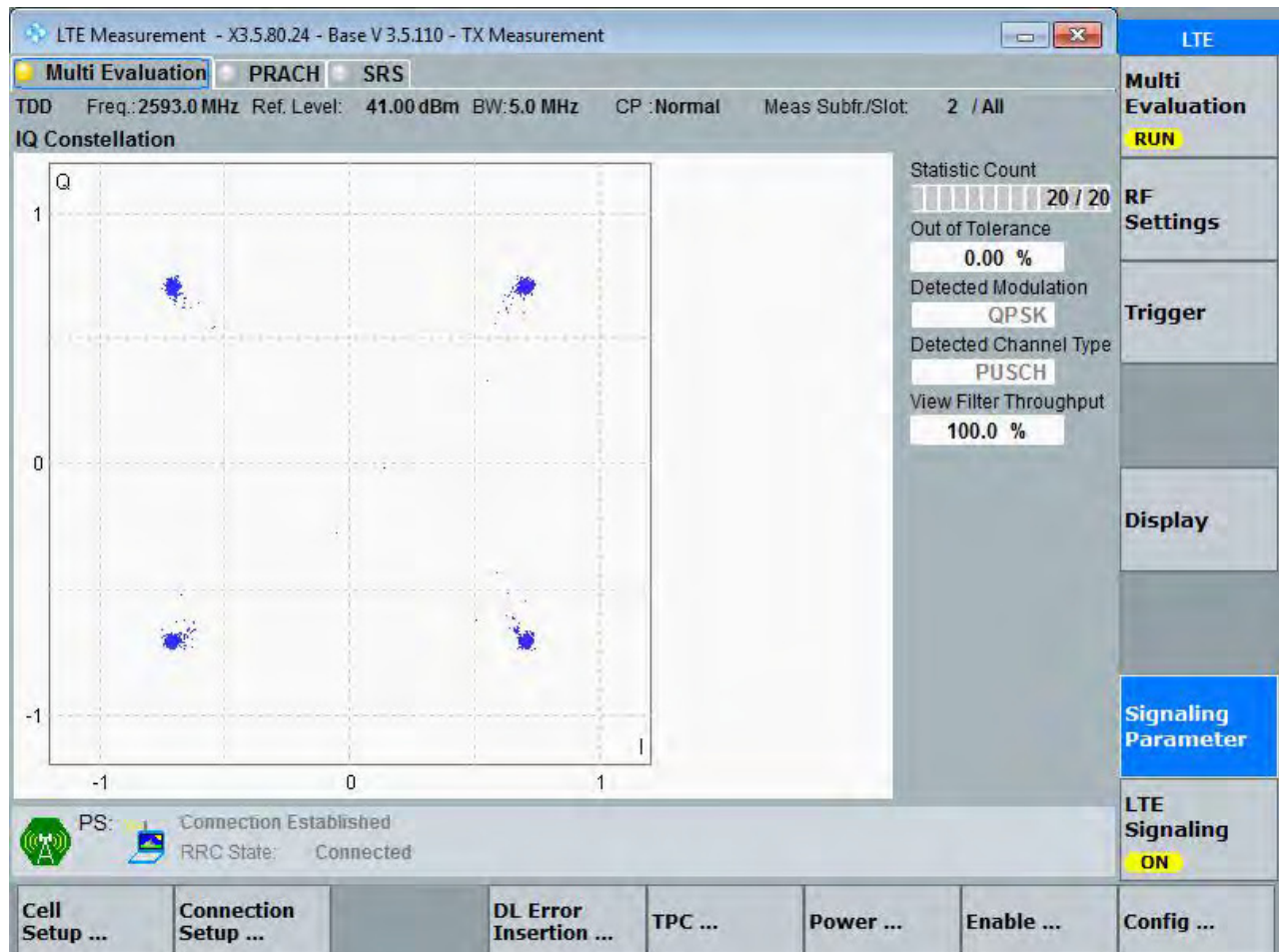
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band 41

3.1.1.1 Test Mode = LTE /TM1 5MHz

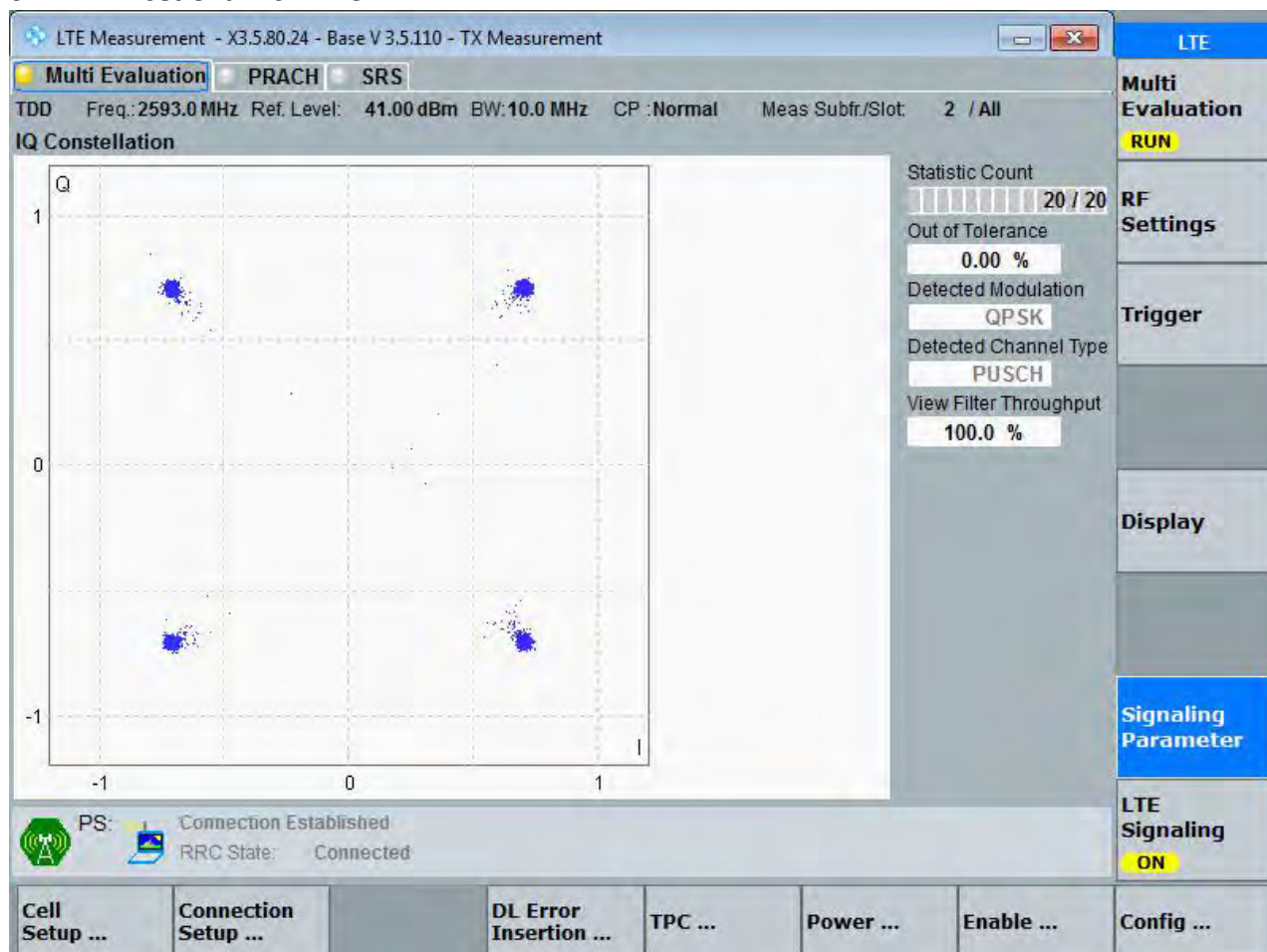
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

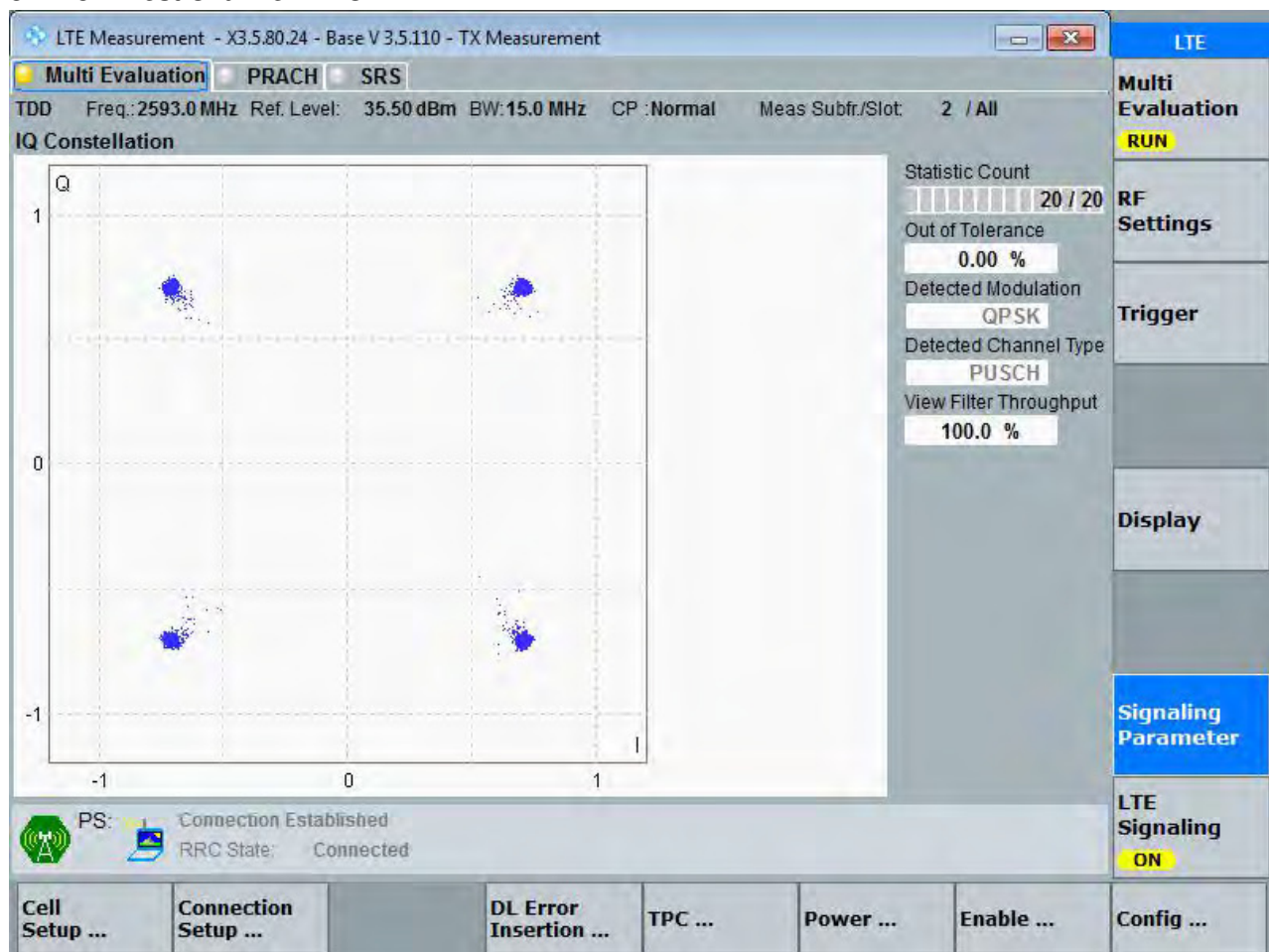
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 15MHz

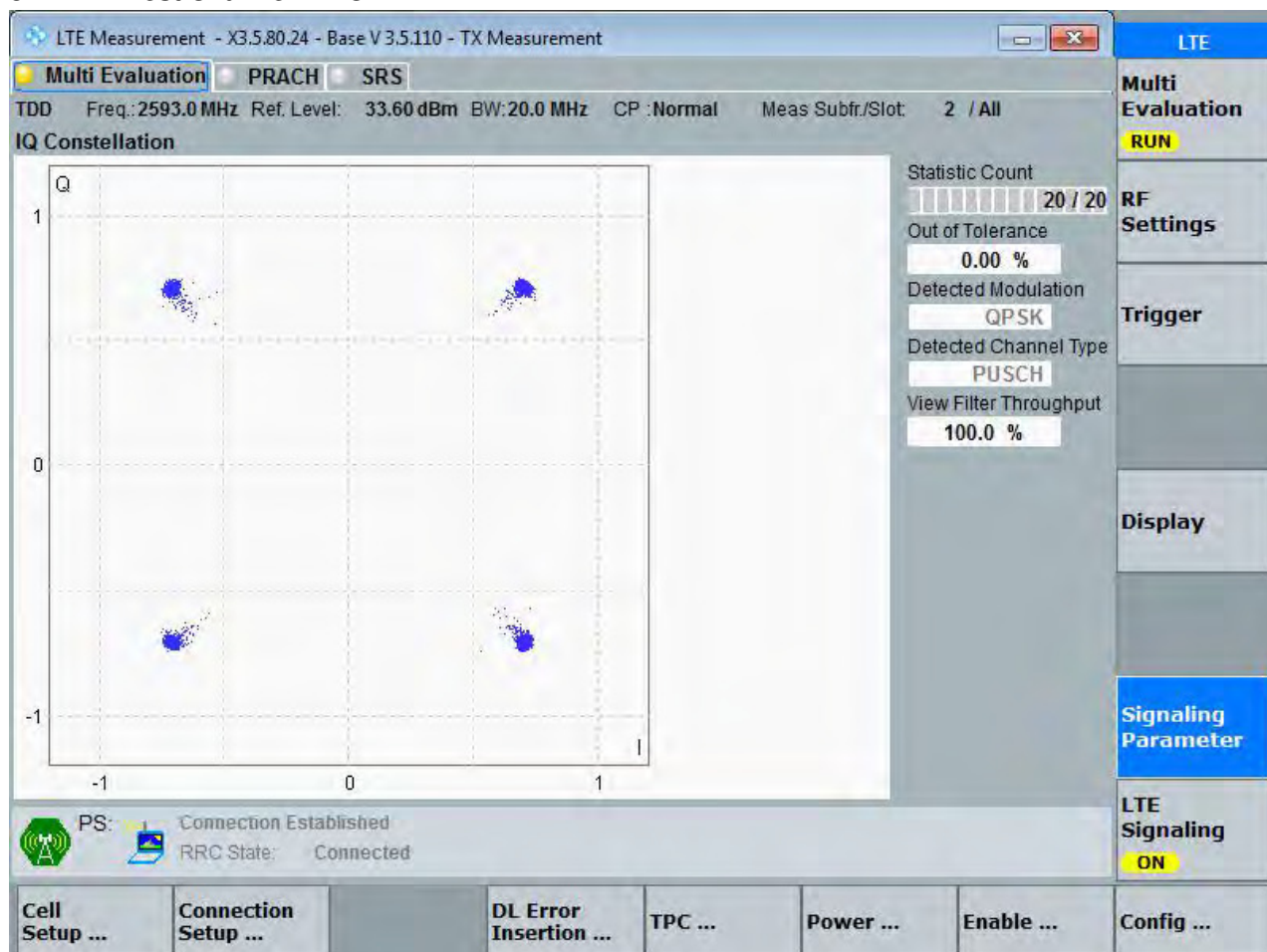
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 20MHz

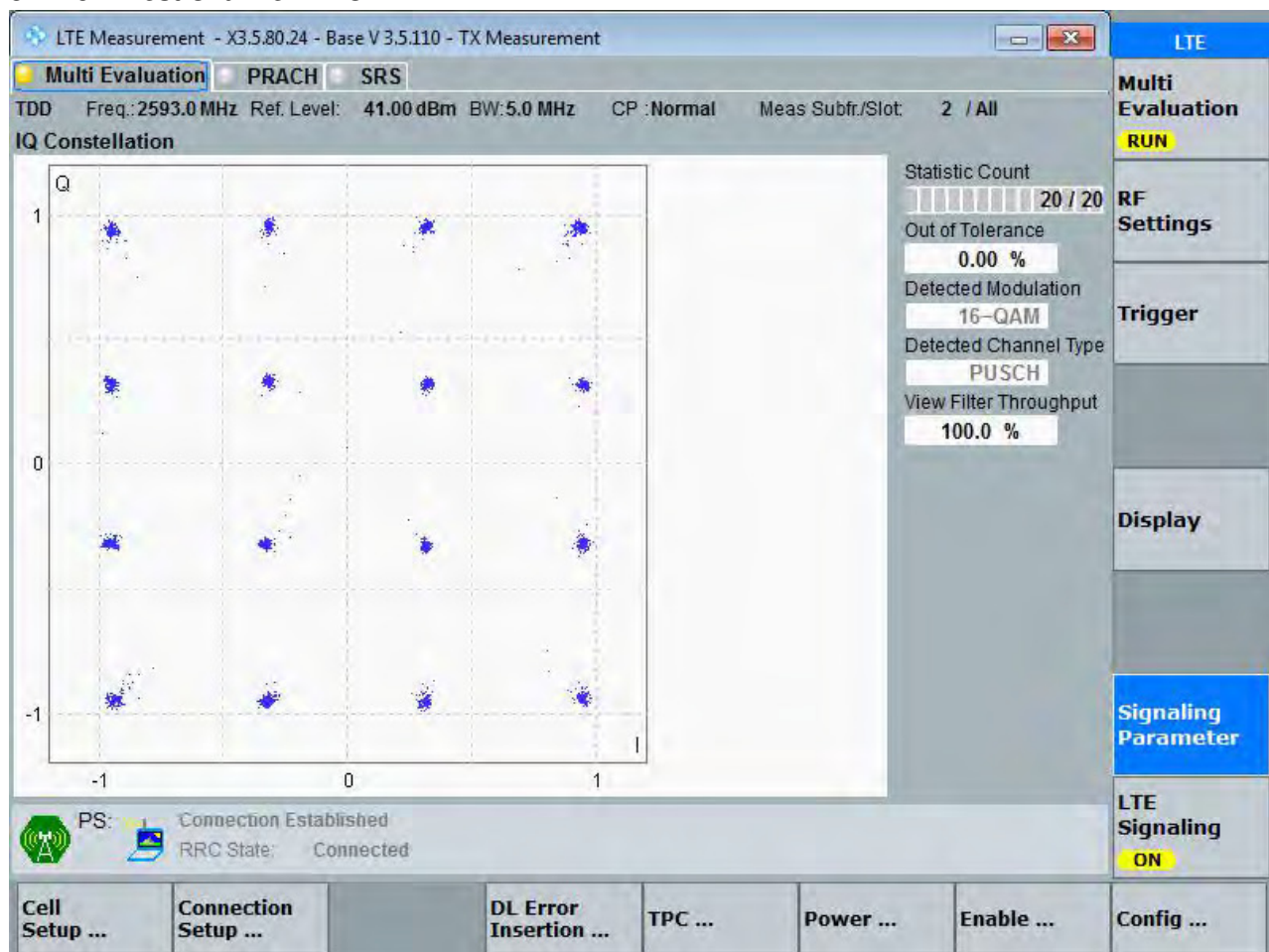
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 5MHz

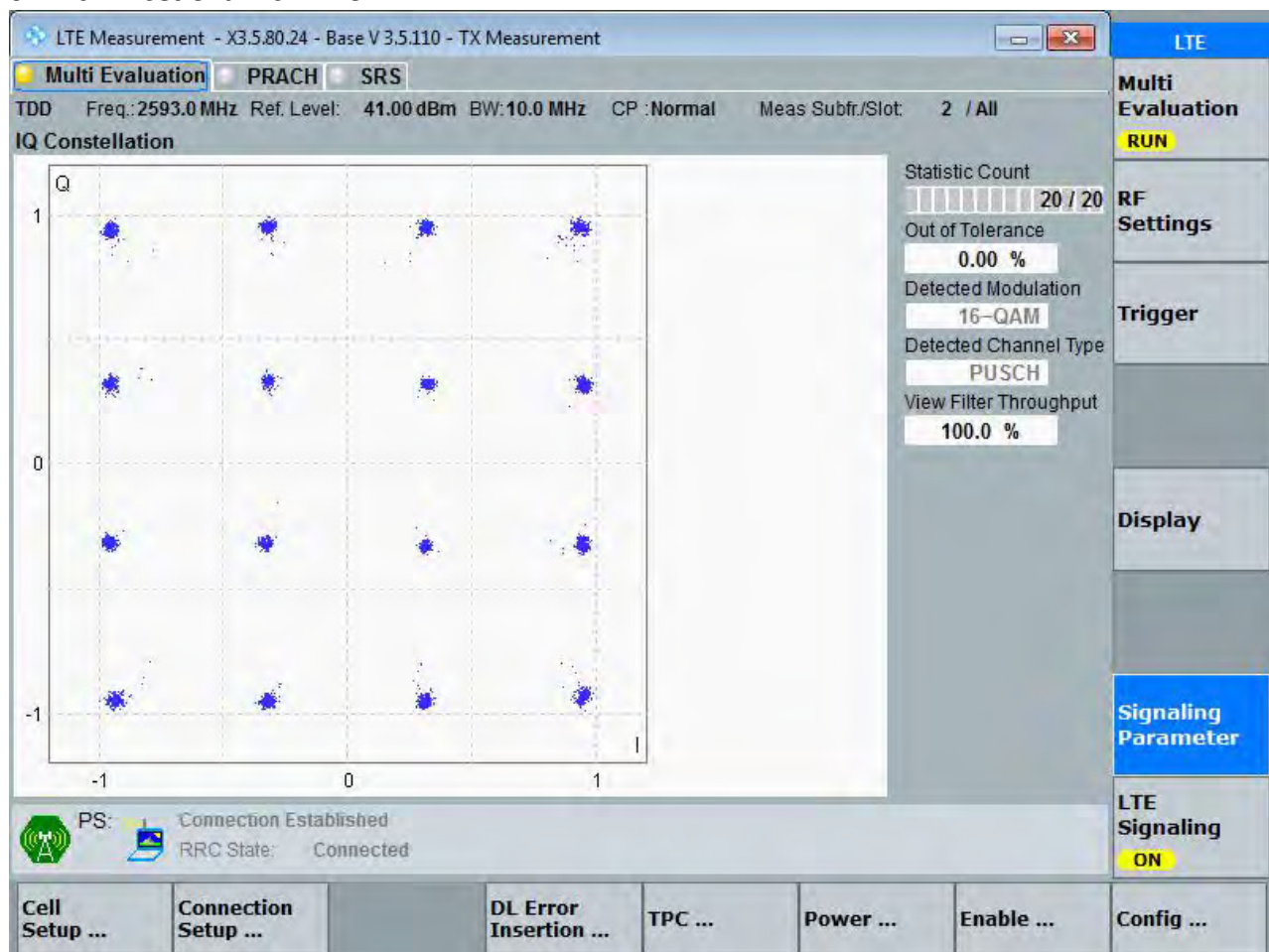
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM2 10MHz

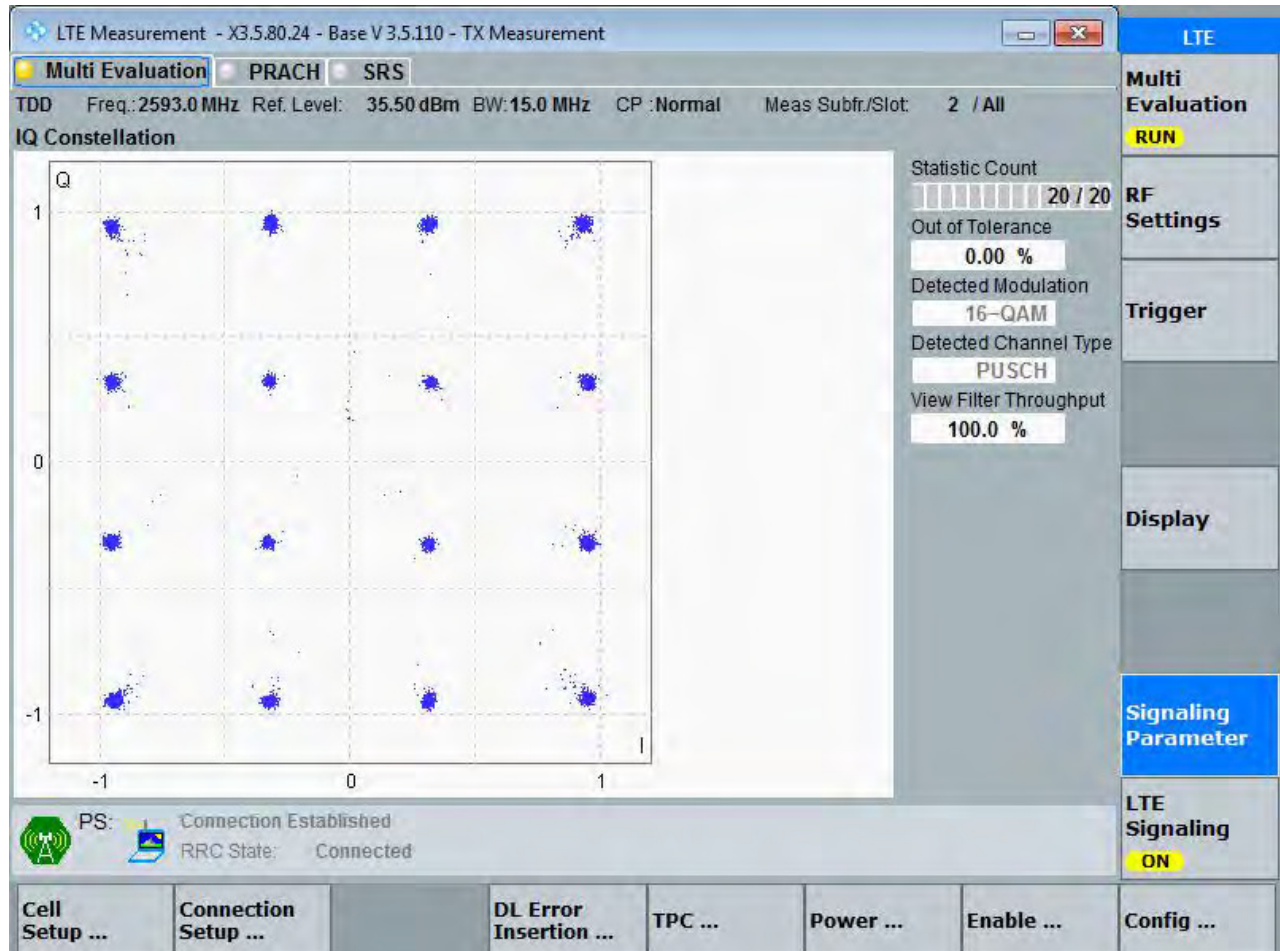
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 15MHz

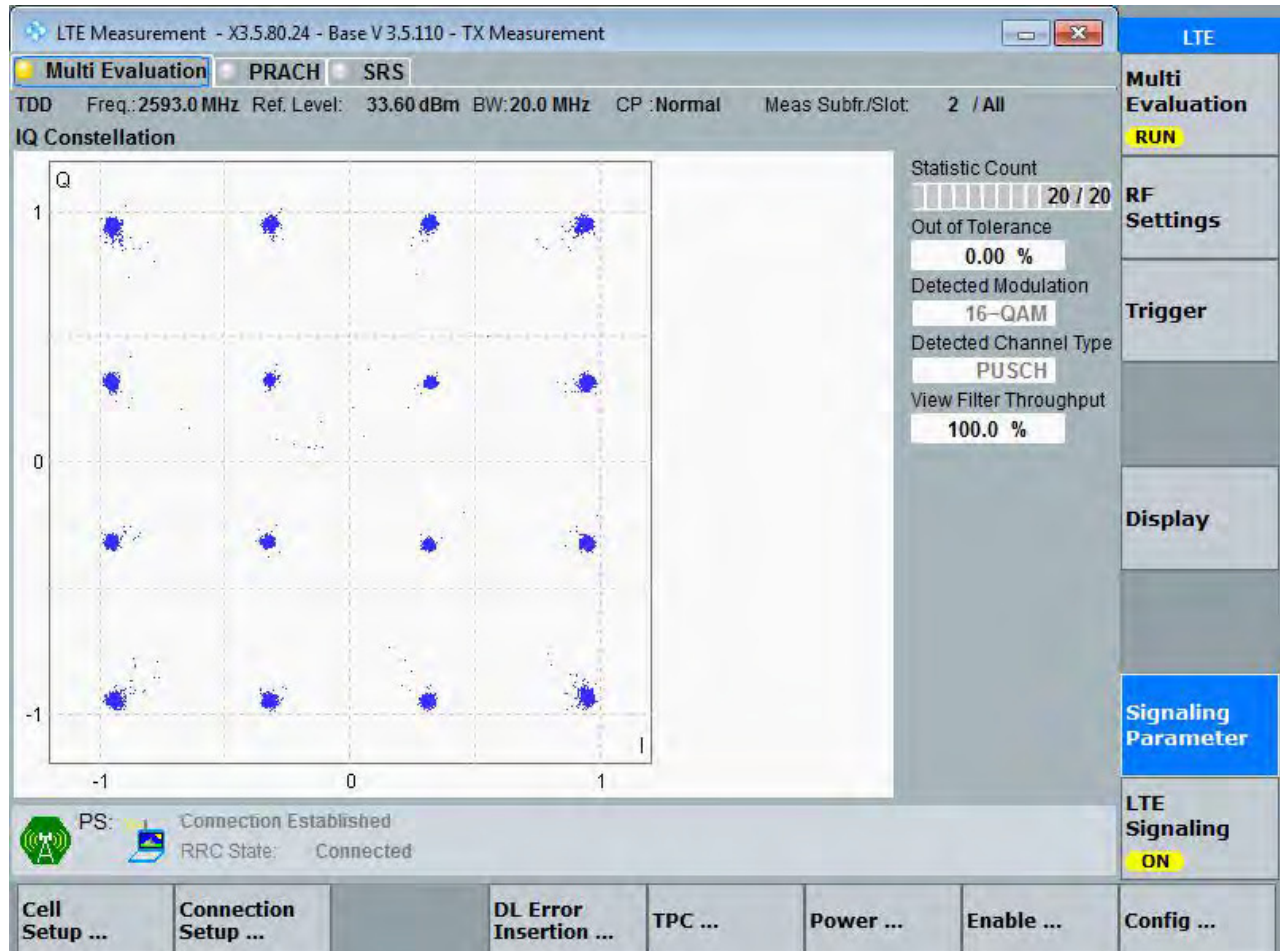
3.1.1.7.1 Test Channel = MCH





3.1.1.8 Test Mode = LTE /TM2 20MHz

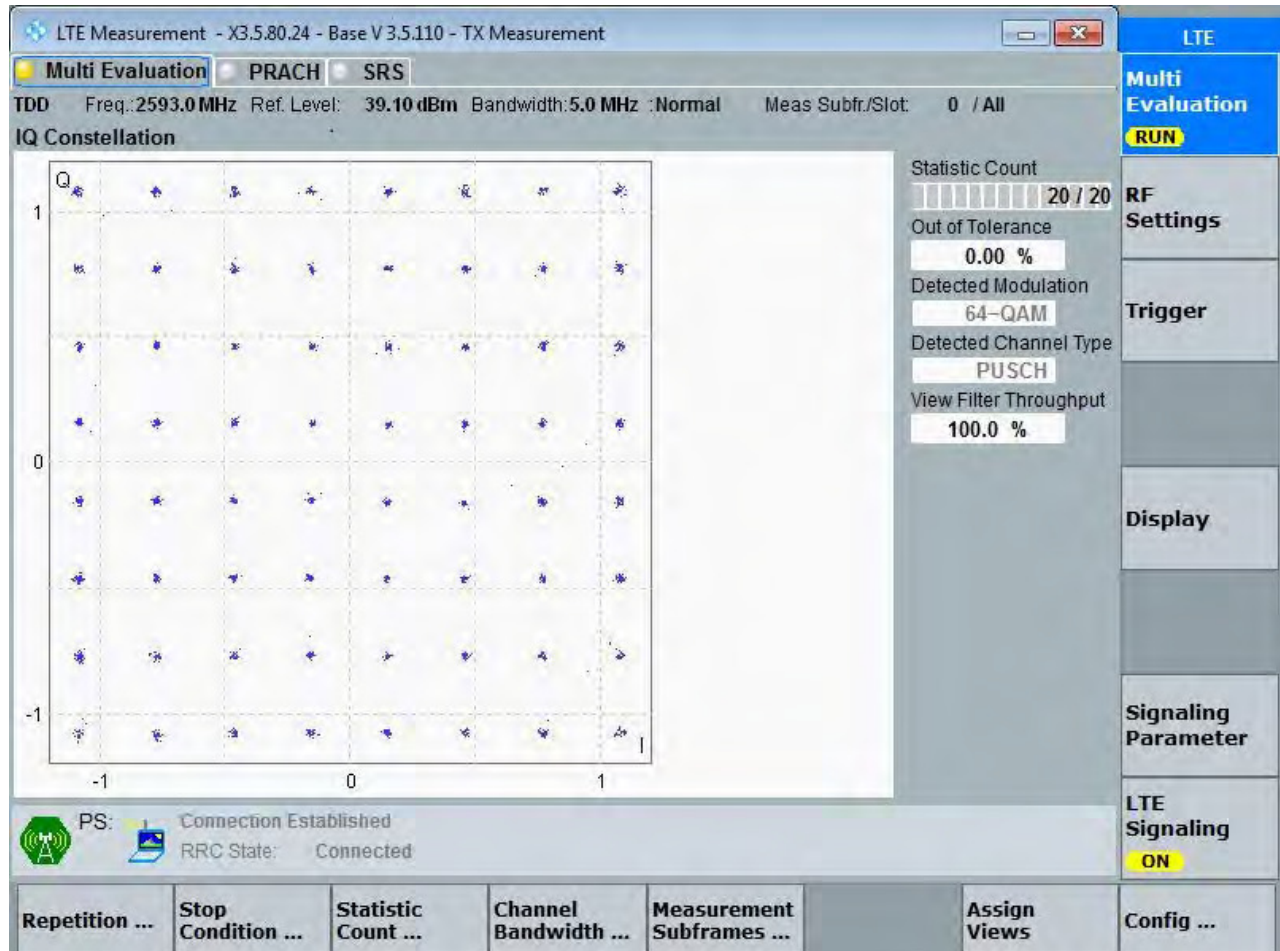
3.1.1.8.1 Test Channel = MCH





3.1.1.9 Test Mode = LTE /TM3 5MHz

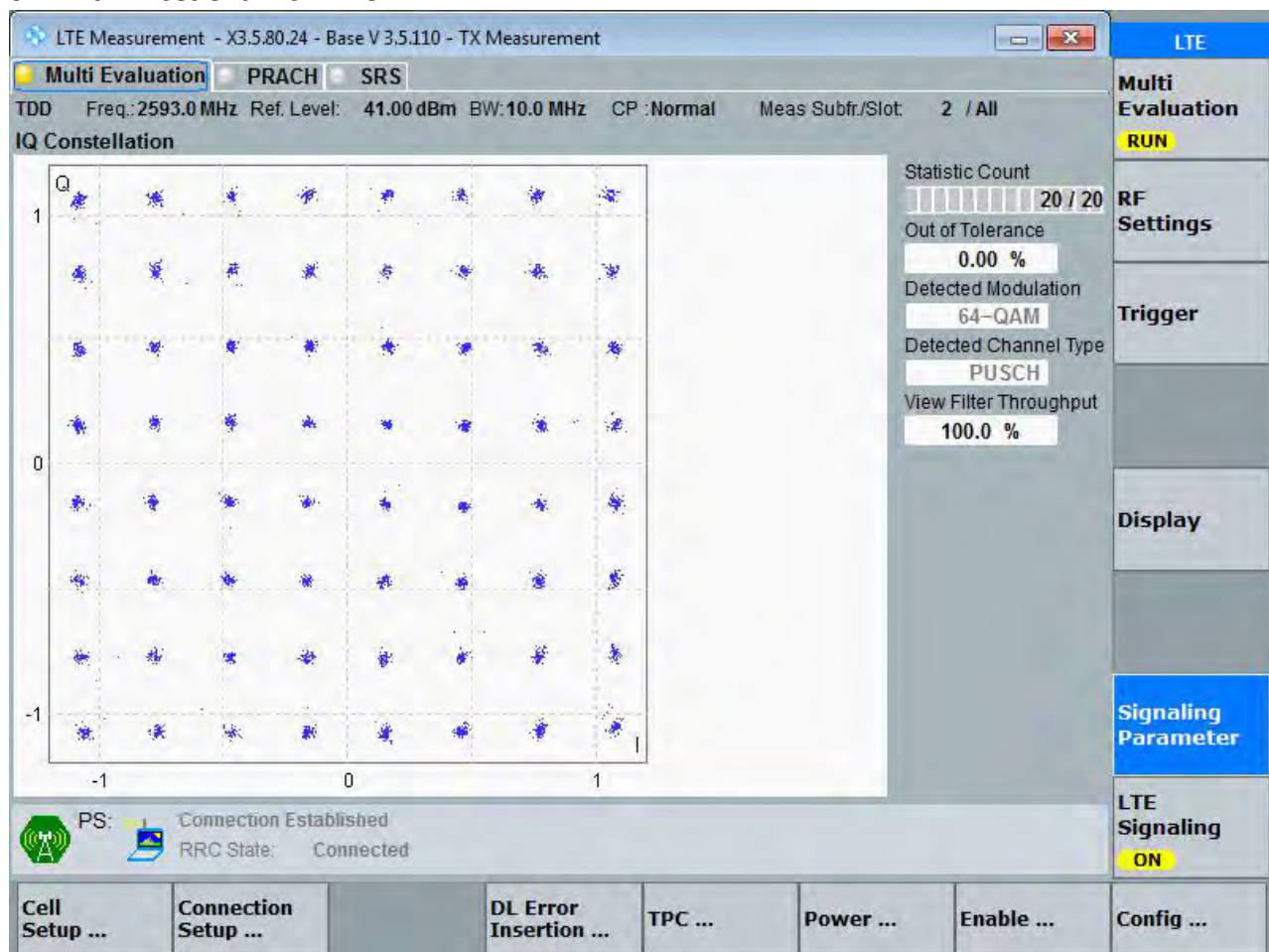
3.1.1.9.1 Test Channel = MCH





3.1.1.10 Test Mode = LTE /TM3 10MHz

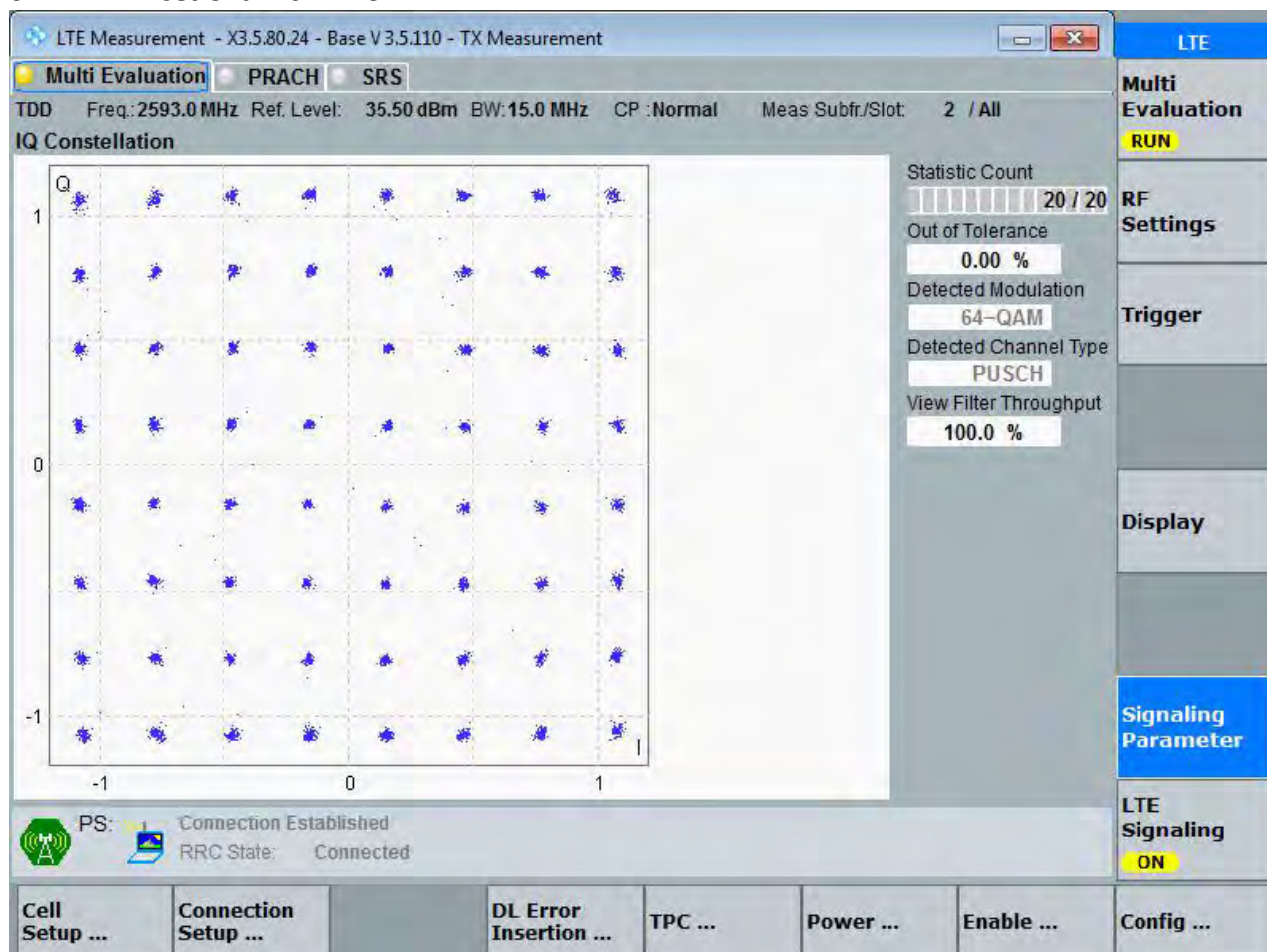
3.1.1.10.1 Test Channel = MCH





3.1.1.11 Test Mode = LTE /TM3 15MHz

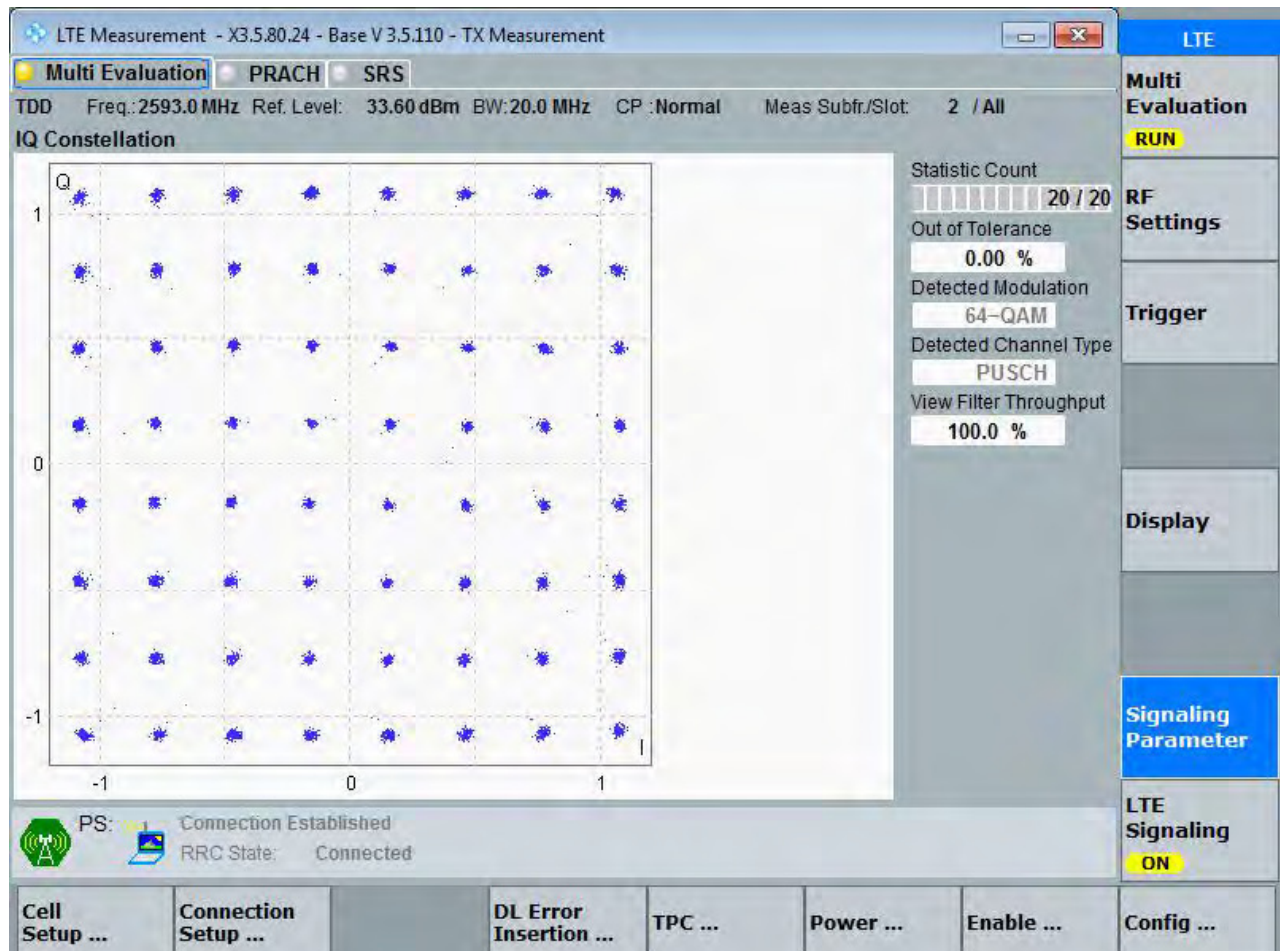
3.1.1.11.1 Test Channel = MCH





3.1.1.12 Test Mode = LTE /TM3 20MHz

3.1.1.12.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 41	TM1/5MHz	LCH	4.48	4.85	PASS
		MCH	4.48	4.90	PASS
		HCH	4.48	4.89	PASS
	TM2/5MHz	LCH	4.48	4.88	PASS
		MCH	4.47	4.89	PASS
		HCH	4.47	4.88	PASS
	TM3/5MHz	LCH	4.47	4.88	PASS
		MCH	4.48	4.89	PASS
		HCH	4.47	4.87	PASS
	TM1/10MHz	LCH	8.95	9.61	PASS
		MCH	8.93	9.71	PASS
		HCH	8.93	9.69	PASS
	TM2/10MHz	LCH	8.93	9.65	PASS
		MCH	8.93	9.53	PASS
		HCH	8.91	9.53	PASS
	TM3/10MHz	LCH	8.95	9.71	PASS
		MCH	8.95	9.57	PASS
		HCH	8.93	9.65	PASS
	TM1/15MHz	LCH	13.46	14.67	PASS
		MCH	13.43	14.72	PASS
		HCH	13.40	14.69	PASS
	TM2/15MHz	LCH	13.46	14.70	PASS
		MCH	13.49	14.75	PASS
		HCH	13.49	14.75	PASS
	TM3/15MHz	LCH	13.43	14.58	PASS
		MCH	13.49	14.69	PASS
		HCH	13.46	14.75	PASS
	TM1/20MHz	LCH	17.86	19.38	PASS
		MCH	17.82	19.26	PASS
		HCH	17.90	19.22	PASS



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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 41	TM2/20MHz	LCH	17.86	19.34	PASS
		MCH	17.86	19.38	PASS
		HCH	17.86	19.38	PASS
	TM3/20MHz	LCH	17.86	19.42	PASS
		MCH	17.90	19.38	PASS
		HCH	17.82	19.34	PASS

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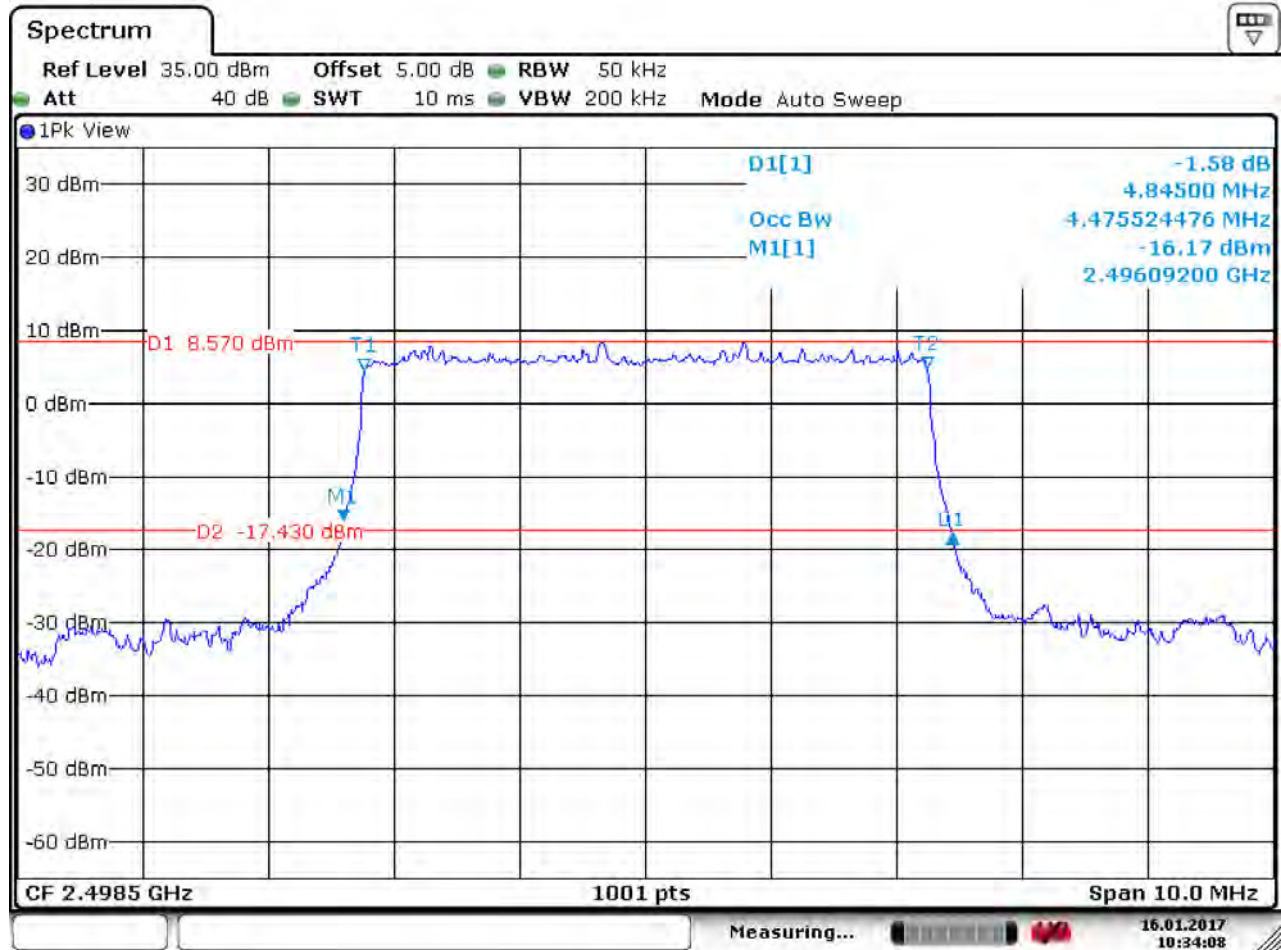


4.1 For LTE

4.1.1 Test Band = LTE band41

4.1.1.1 Test Mode = LTE/TM1 5MHz

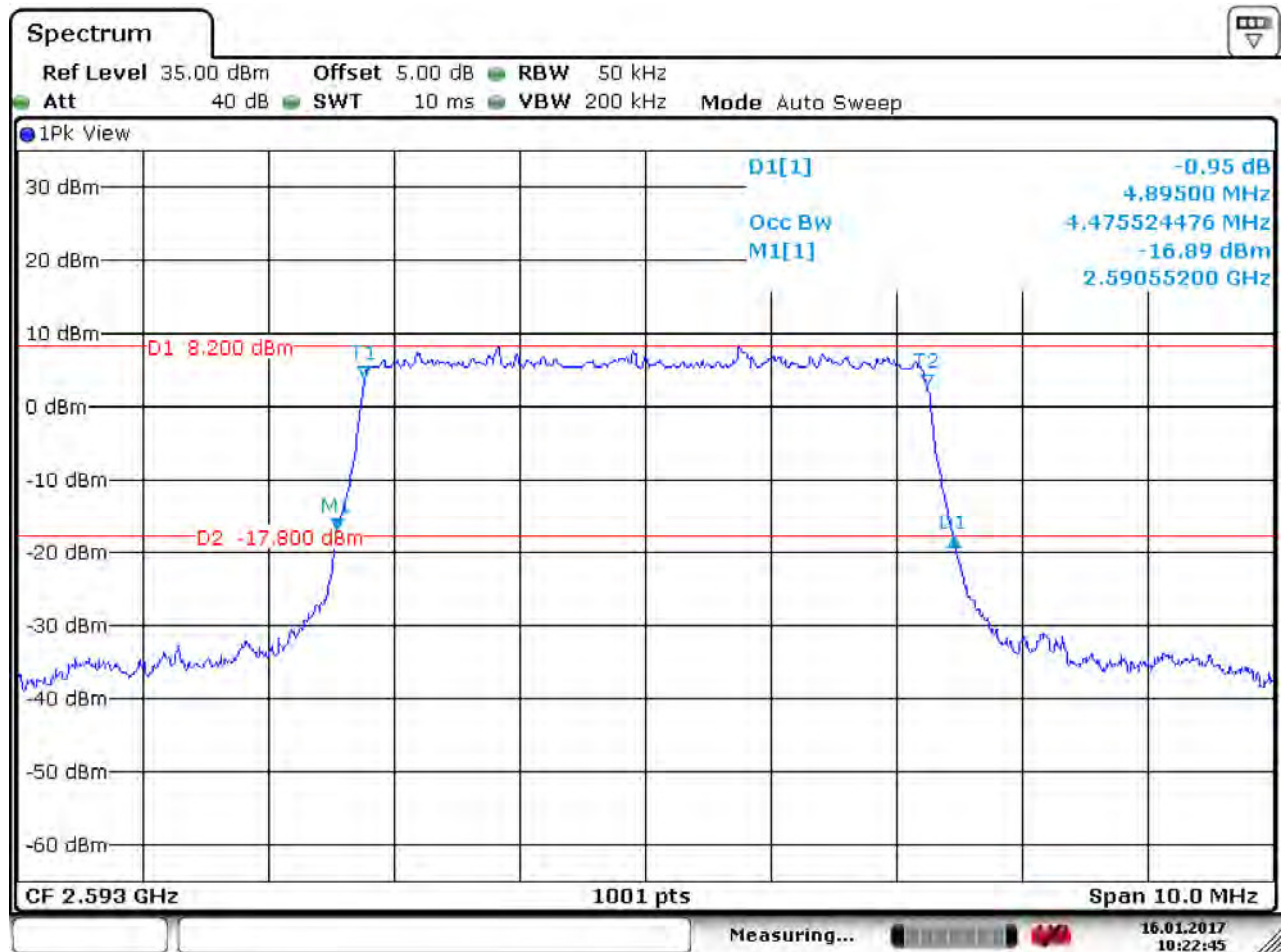
4.1.1.1.1 Test Channel = LCH



Date: 16.JAN.2017 10:34:08

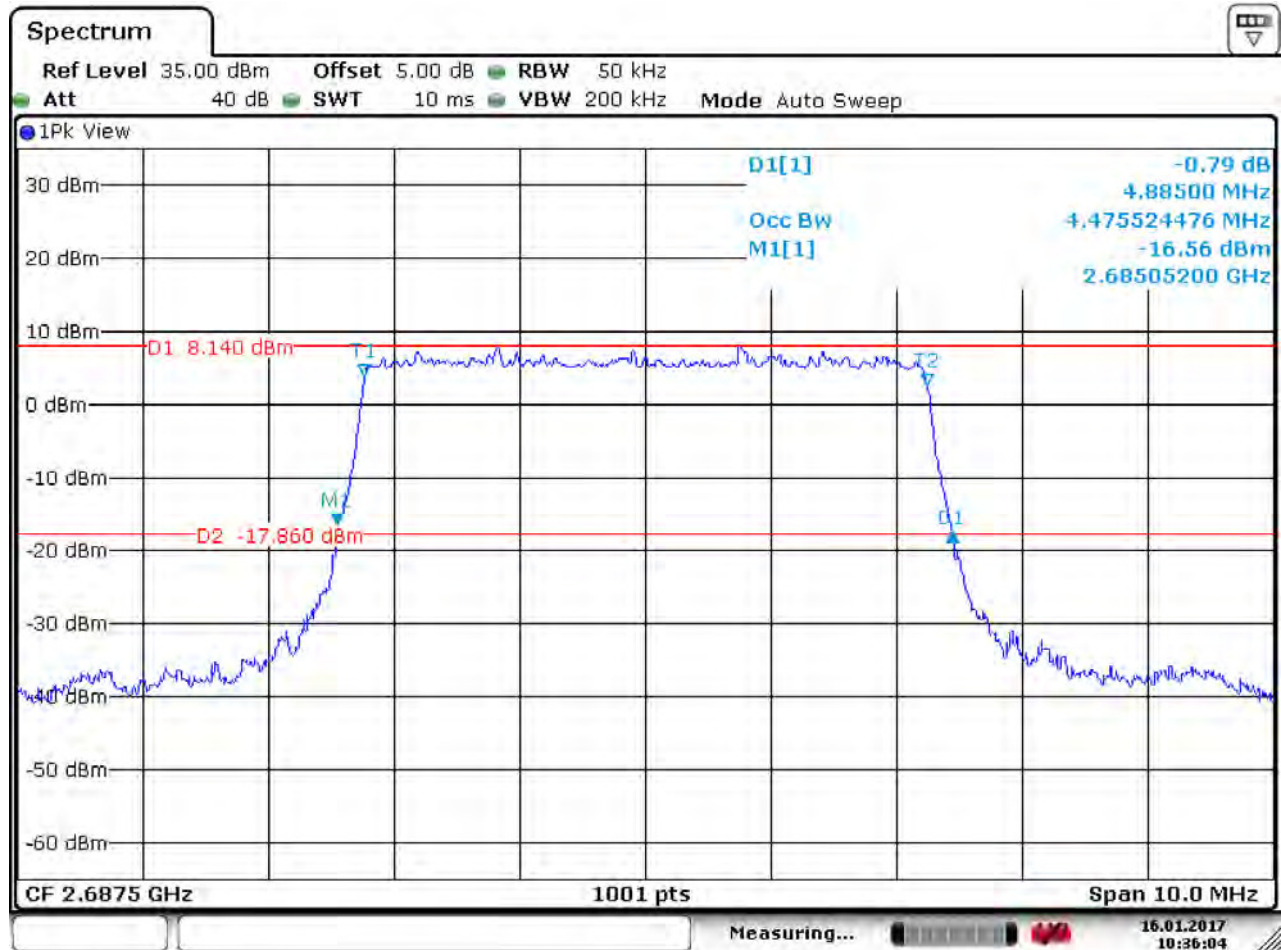


4.1.1.1.2 Test Channel = MCH



Date: 16.JAN.2017 10:22:46

4.1.1.1.3 Test Channel = HCH

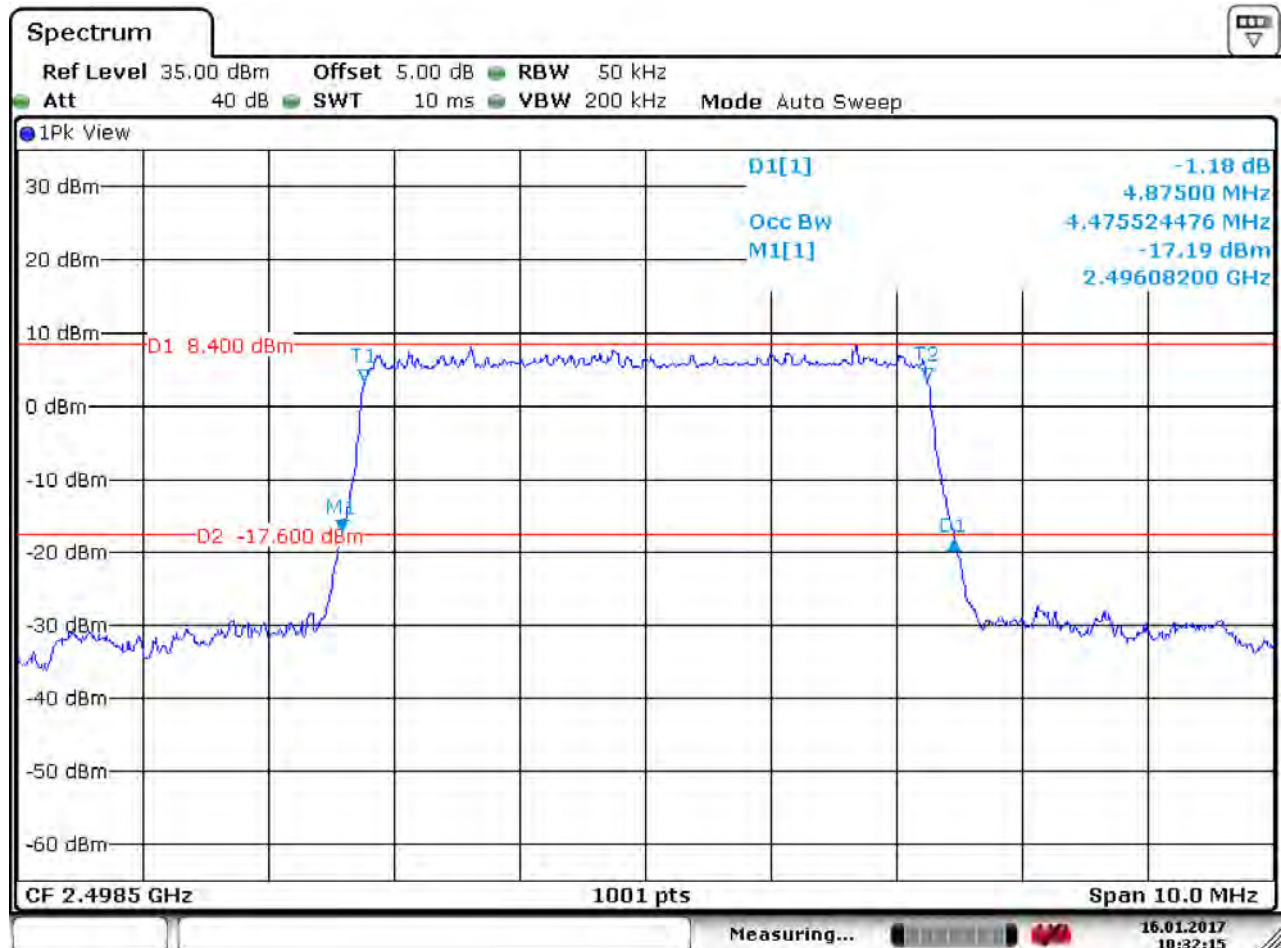


Date: 16.JAN.2017 10:36:05



4.1.1.2 Test Mode = LTE/TM2 5MHz

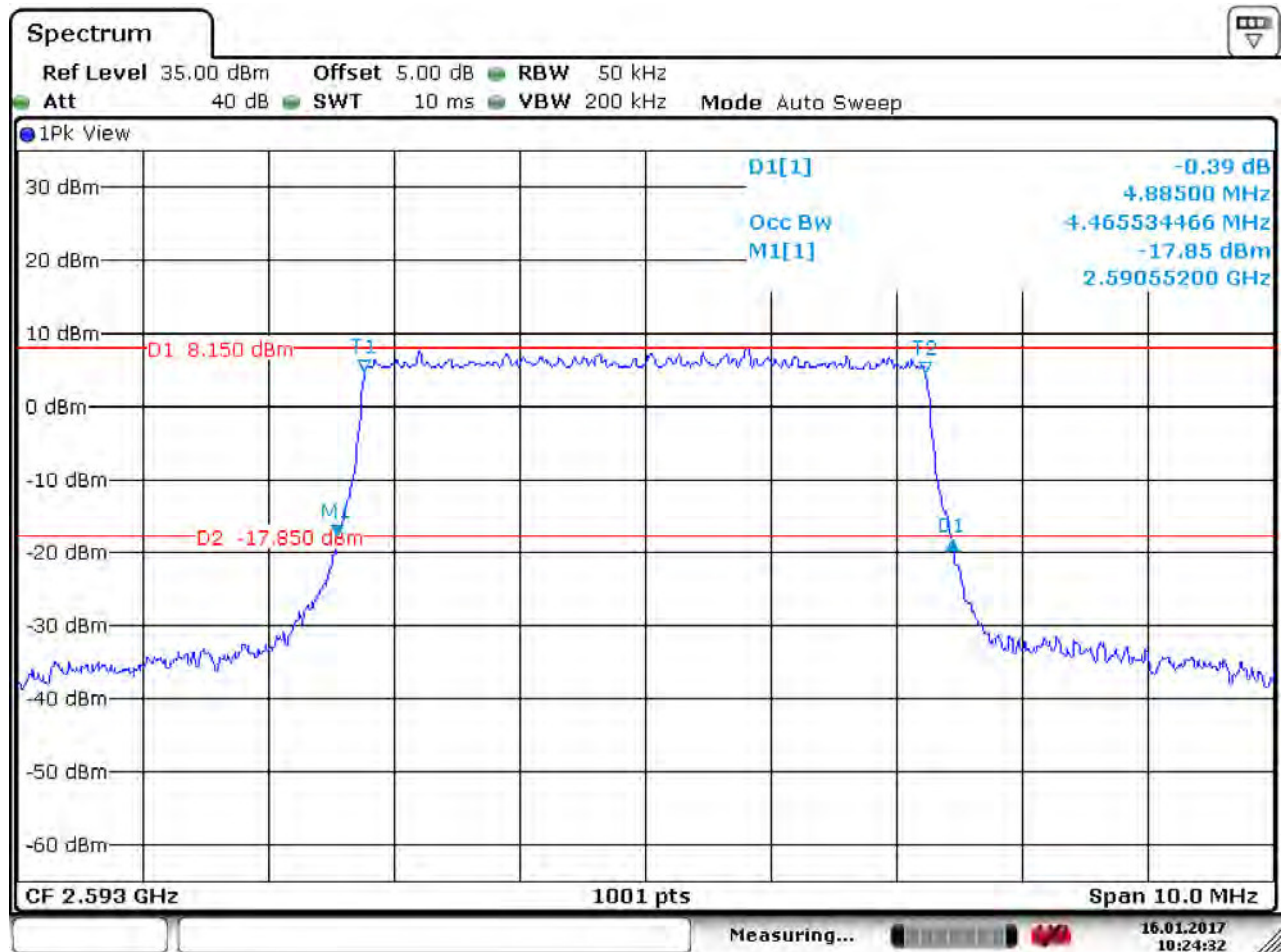
4.1.1.2.1 Test Channel = LCH



Date: 16.JAN.2017 10:32:15



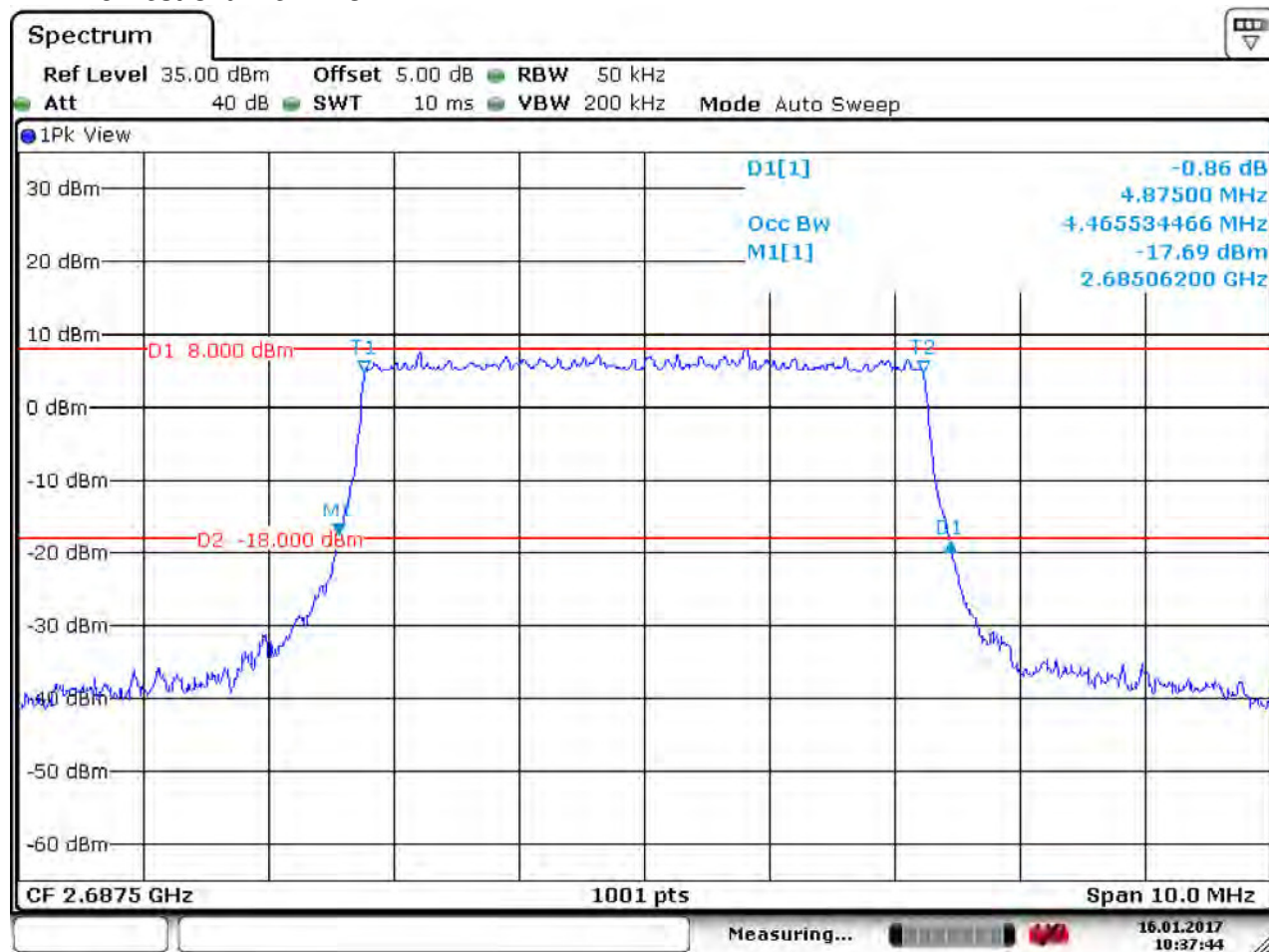
4.1.1.2.2 Test Channel = MCH



Date: 16.JAN.2017 10:24:32



4.1.1.2.3 Test Channel = HCH

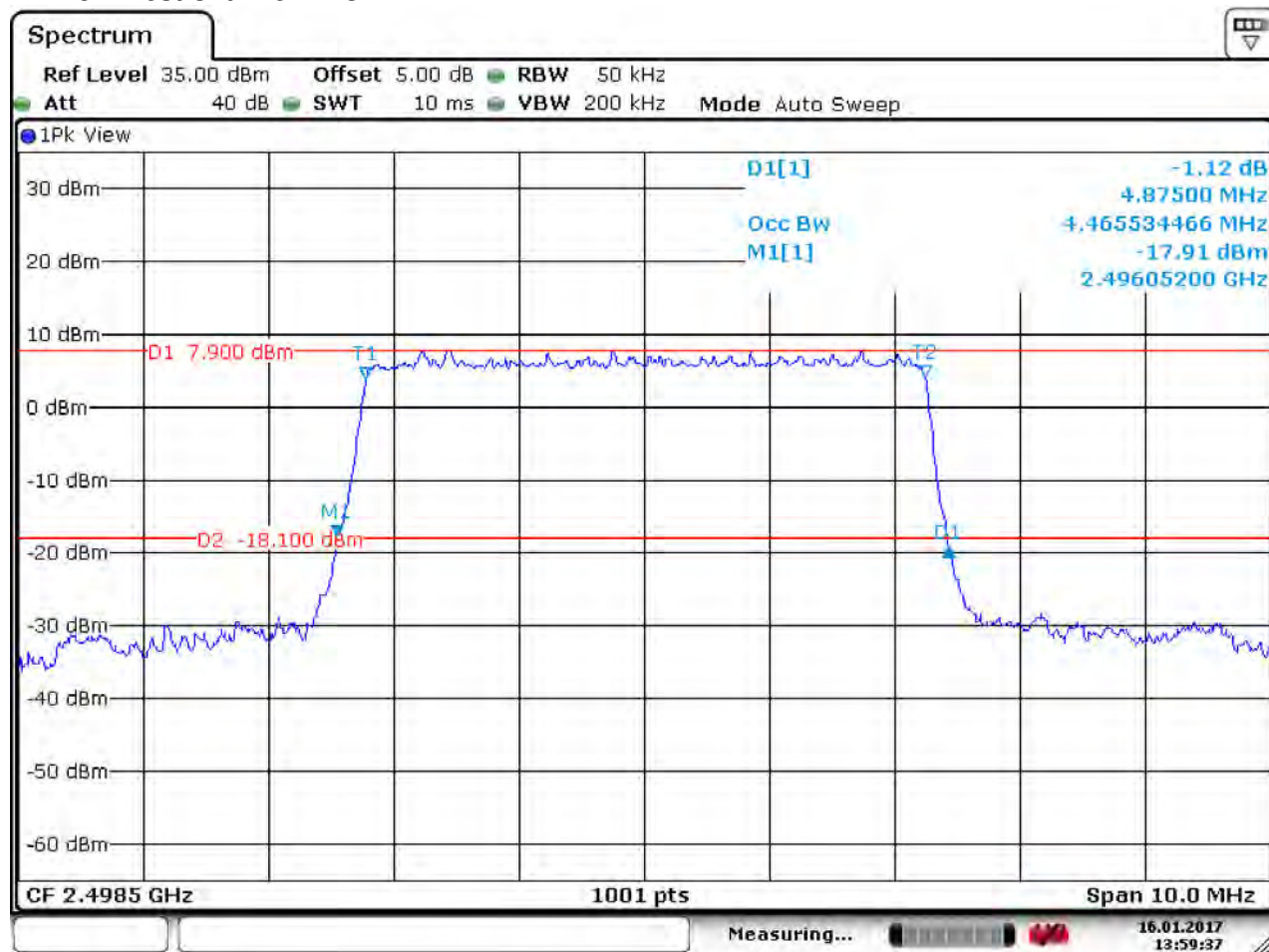


Date: 16.JAN.2017 10:37:44



4.1.1.3 Test Mode = LTE/TM3 5MHz

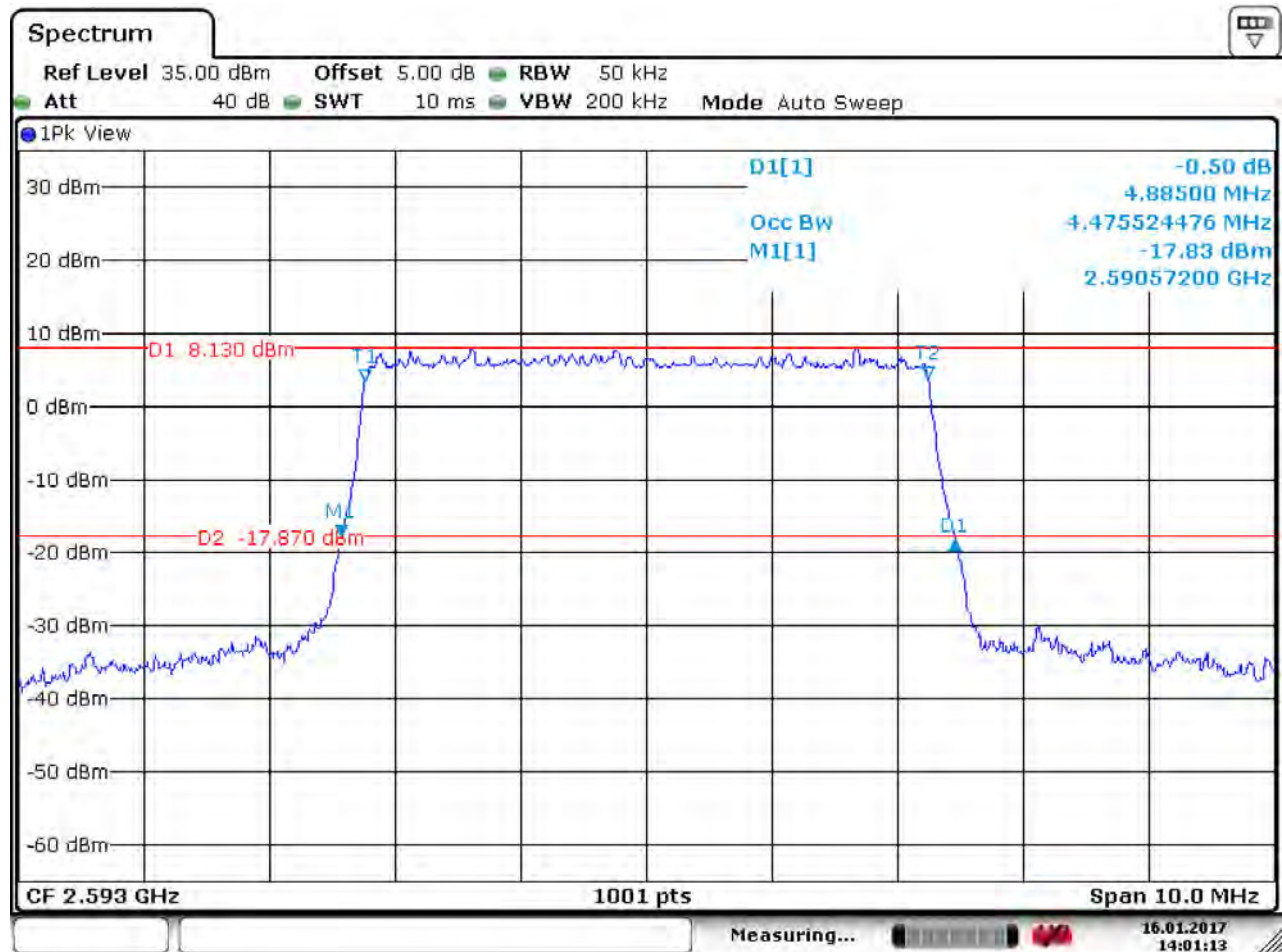
4.1.1.3.1 Test Channel = LCH



Date: 16.JAN.2017 13:59:37

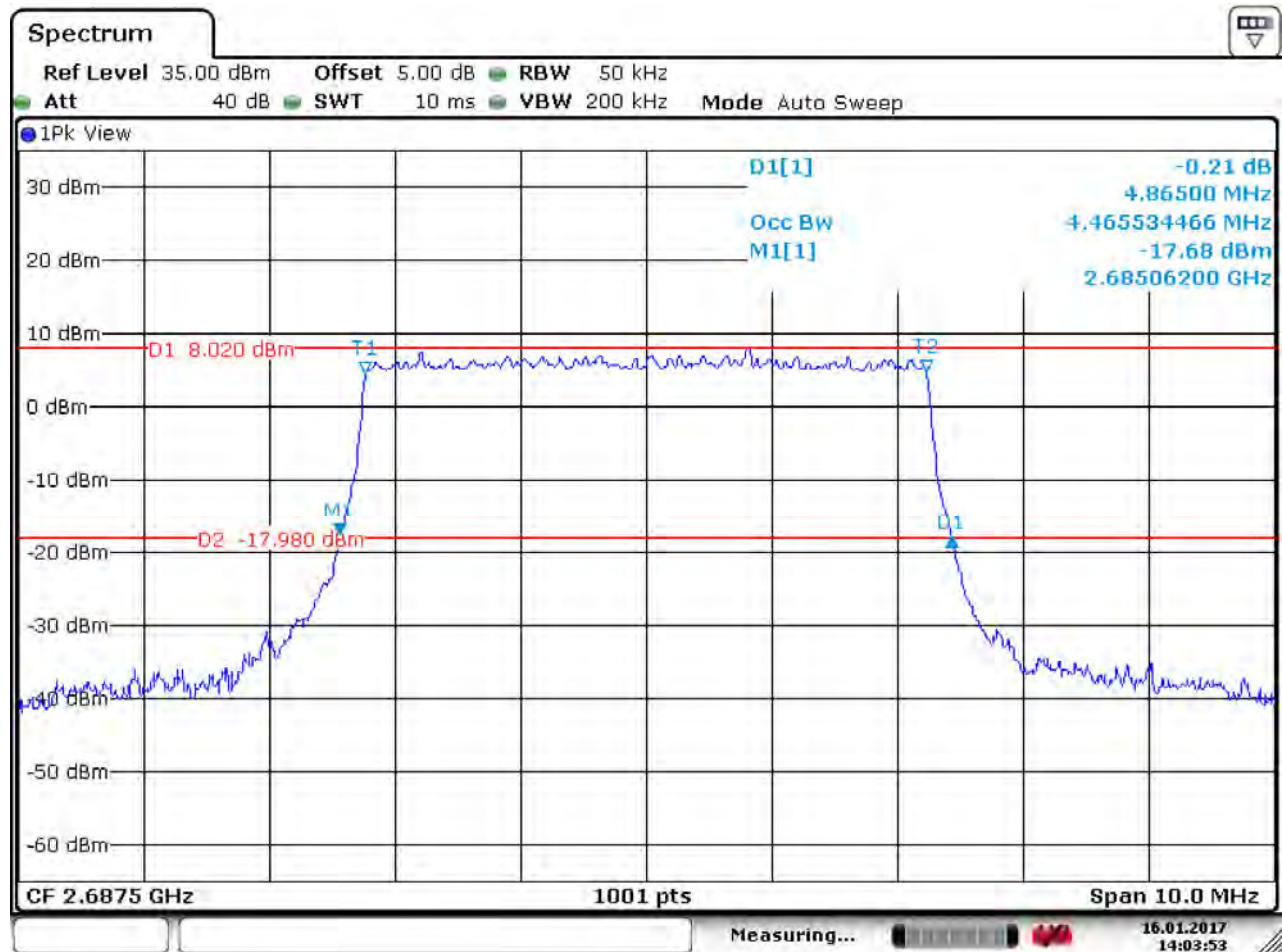


4.1.1.3.2 Test Channel = MCH



Date: 16.JAN.2017 14:01:14

4.1.1.3.3 Test Channel = HCH

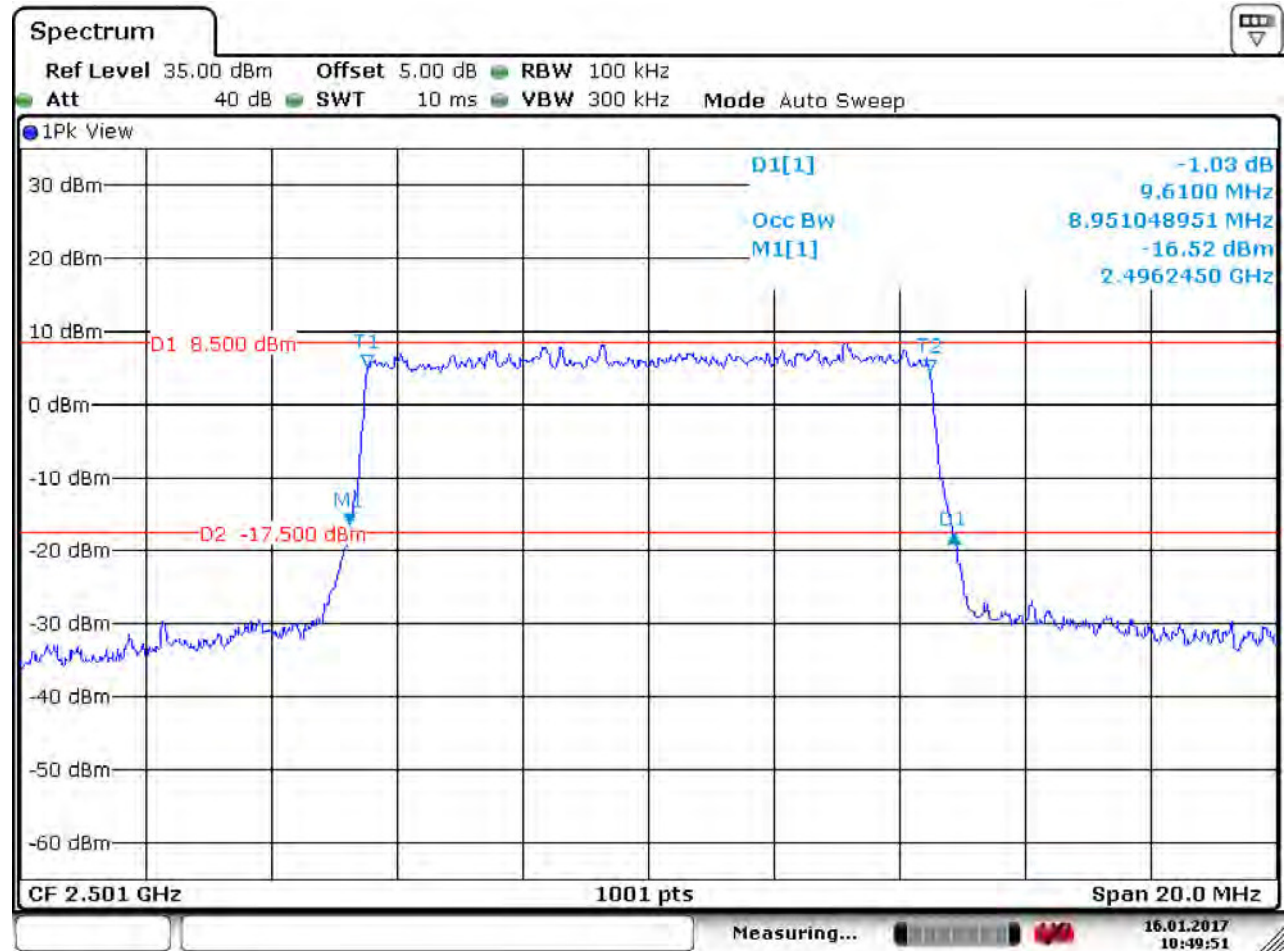


Date: 16.JAN.2017 14:03:54



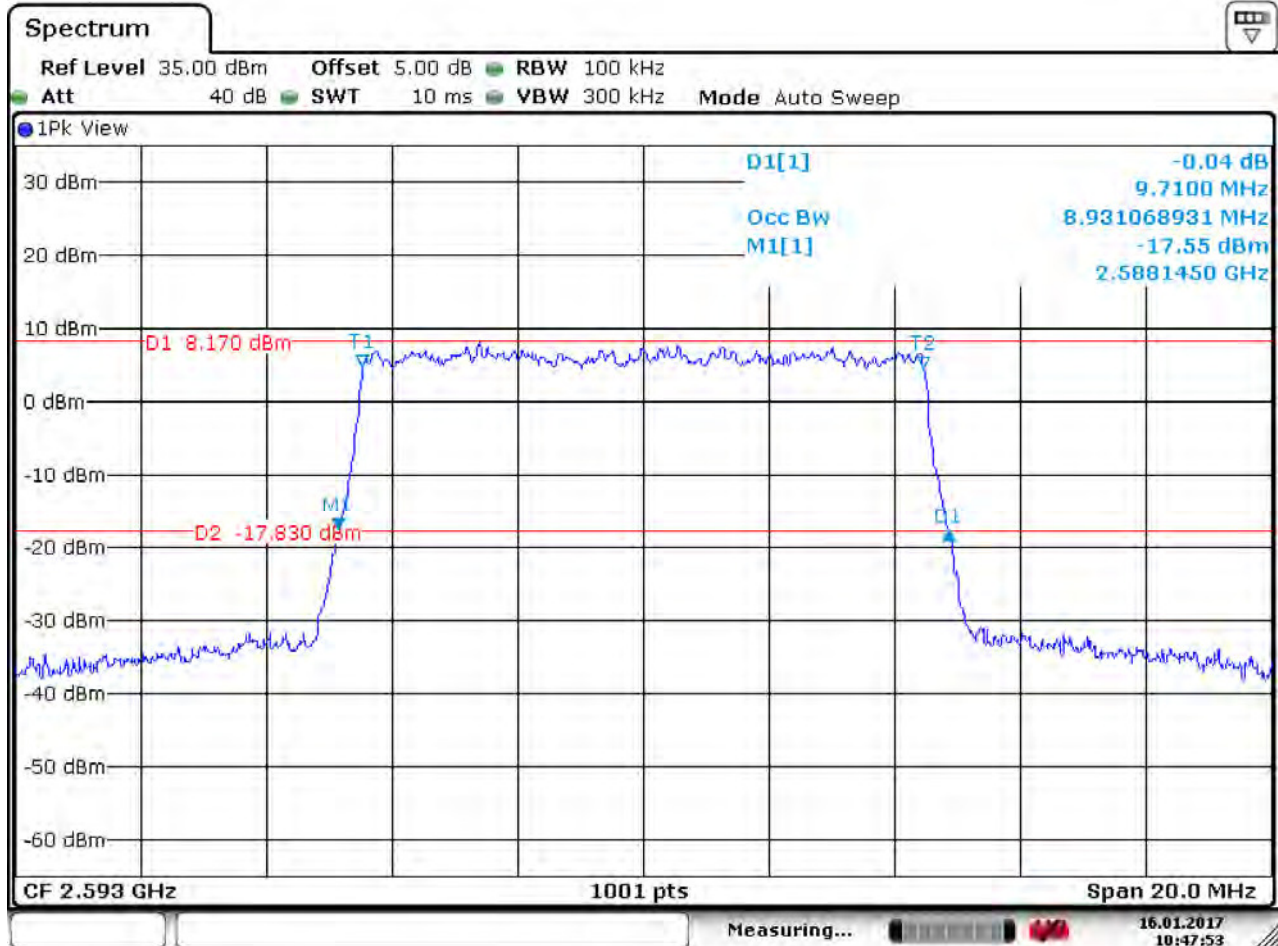
4.1.1.4 Test Mode = LTE/TM1 10MHz

4.1.1.4.1 Test Channel = LCH



Date: 16.JAN.2017 10:49:51

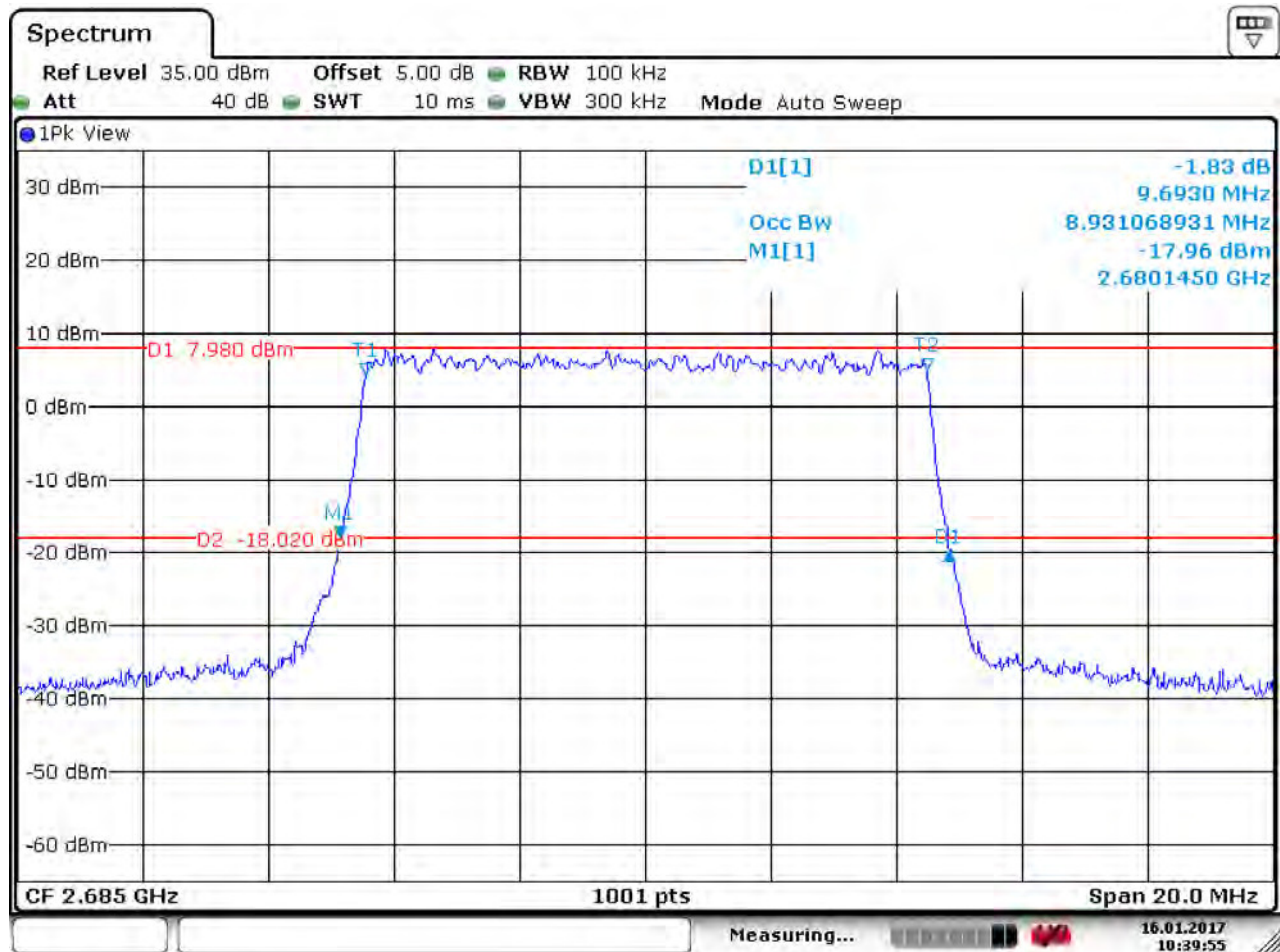
4.1.1.4.2 Test Channel = MCH



Date: 16.JAN.2017 10:47:53

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4.1.1.4.3 Test Channel = HCH



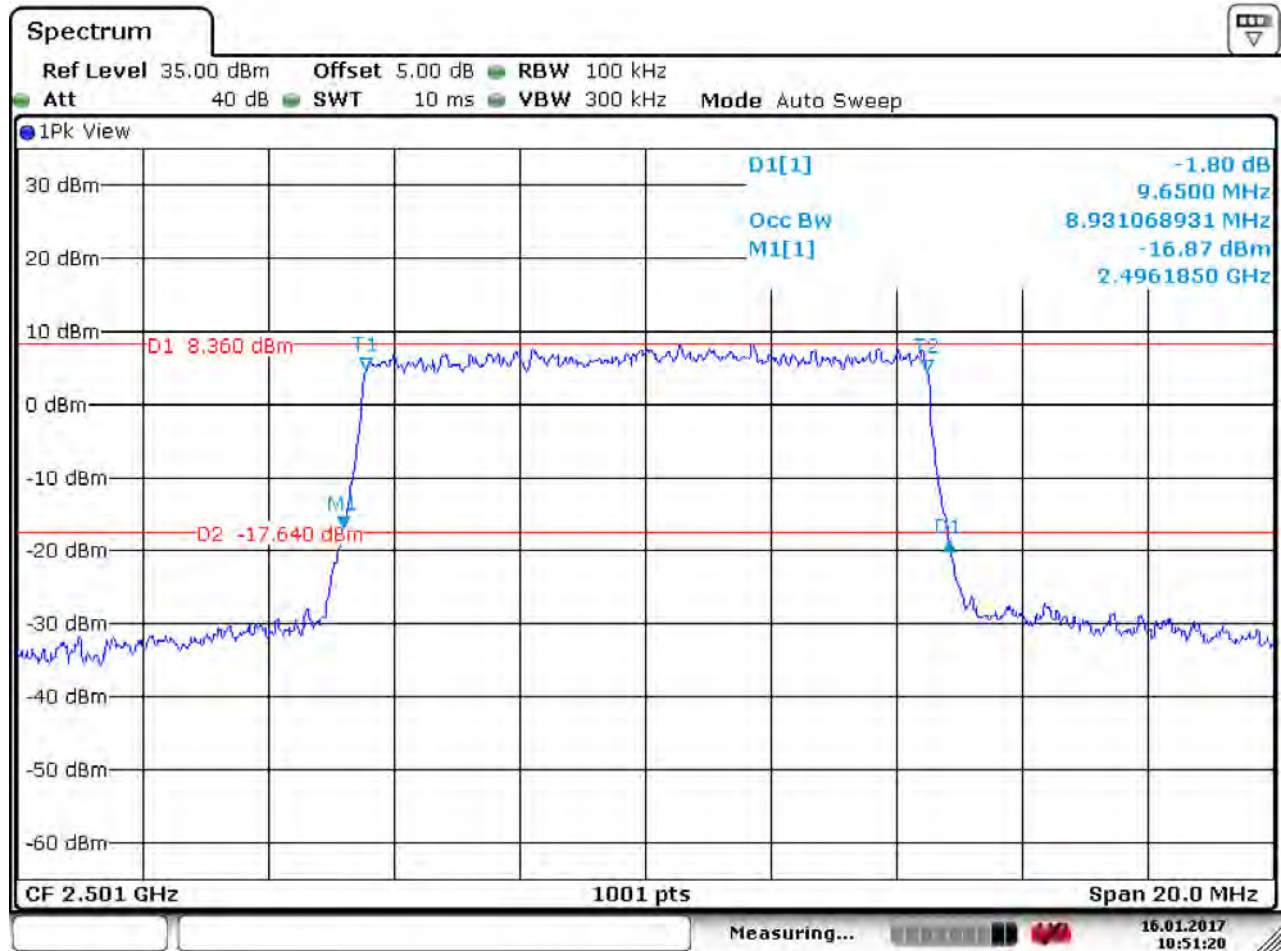
Date: 16.JAN.2017 10:39:56

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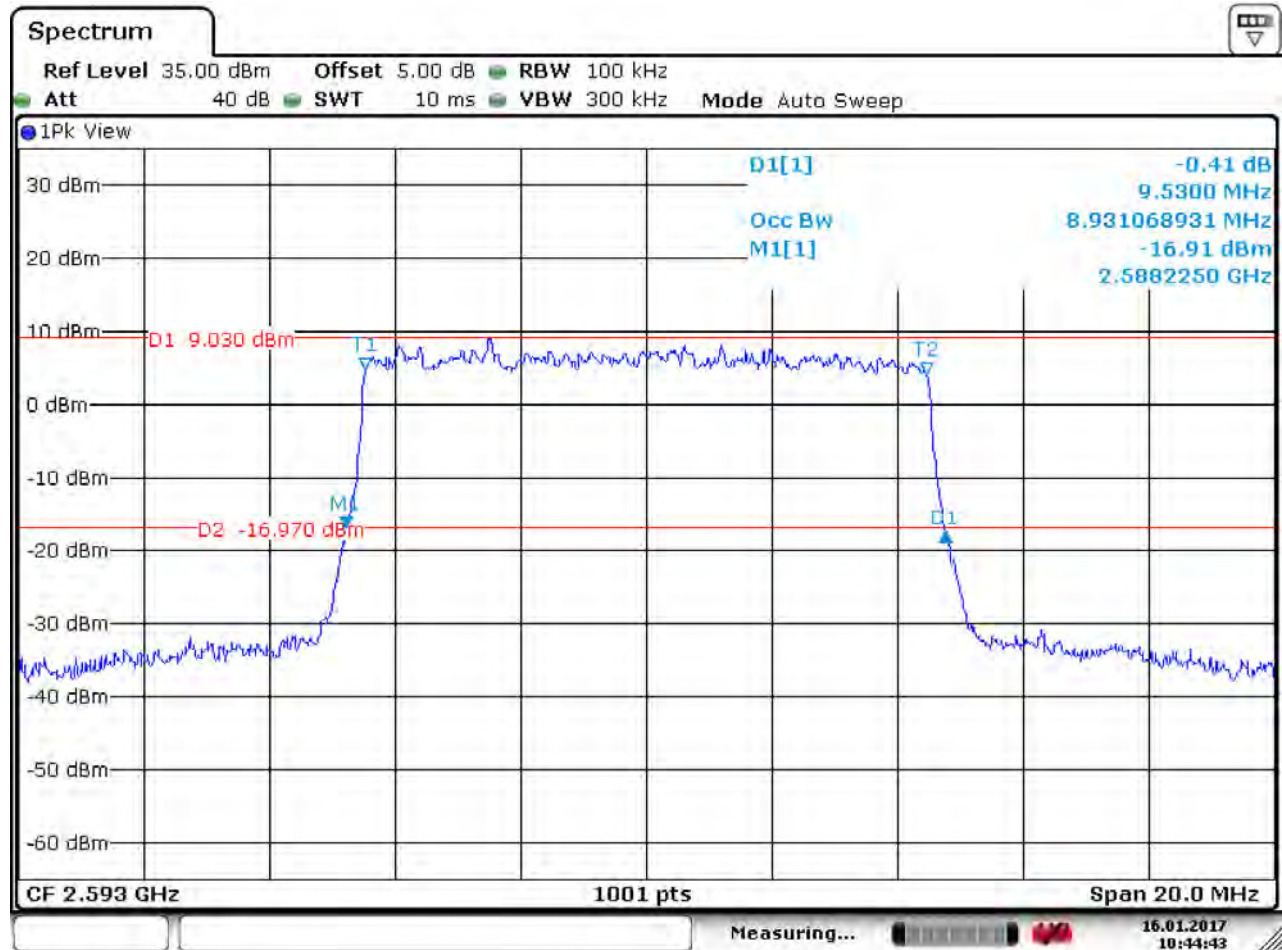
4.1.1.5 Test Mode = LTE/TM2 10MHz

4.1.1.5.1 Test Channel = LCH



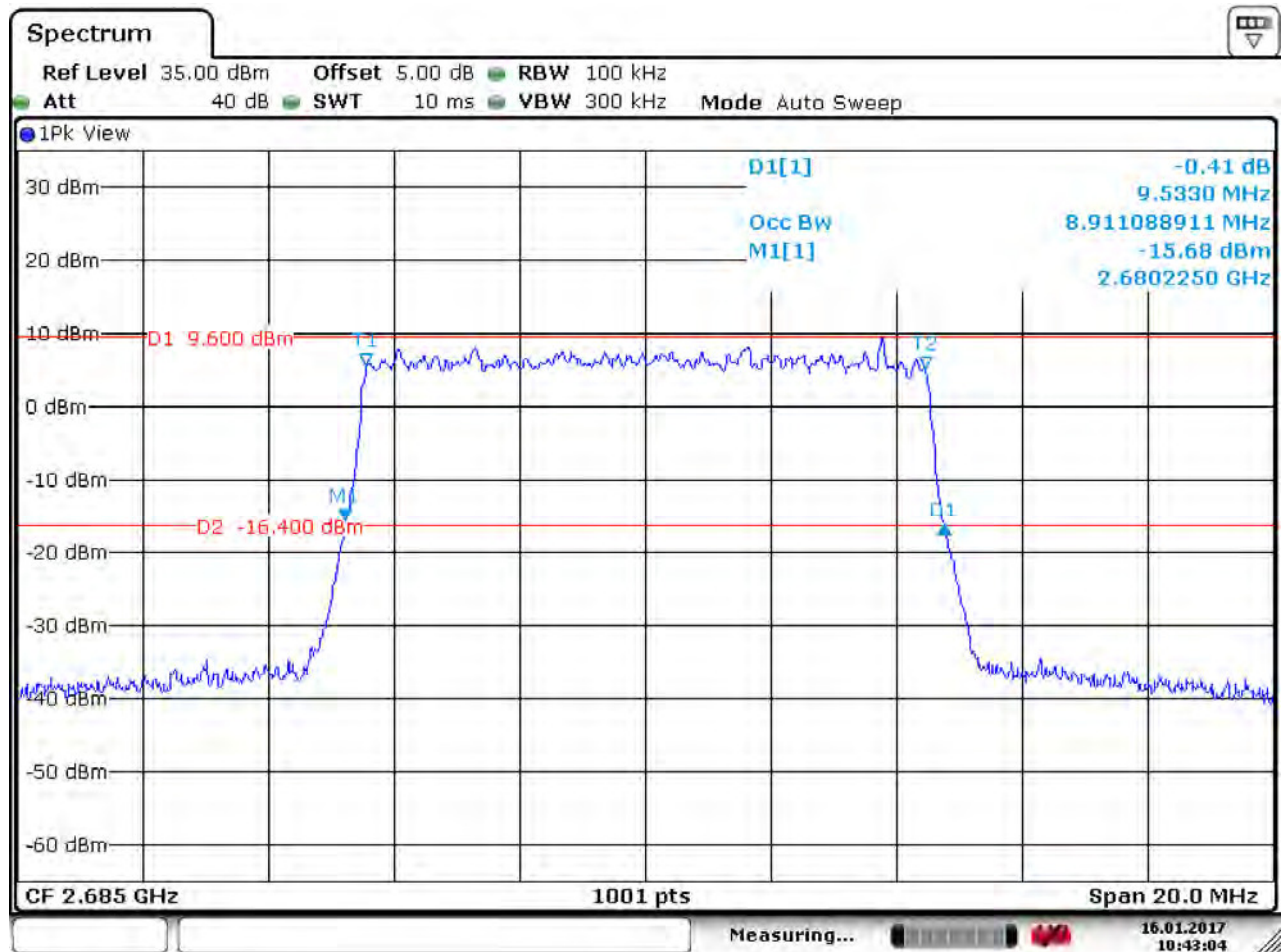
Date: 16.JAN.2017 10:51:21

4.1.1.5.2 Test Channel = MCH



Date: 16.JAN.2017 10:44:44

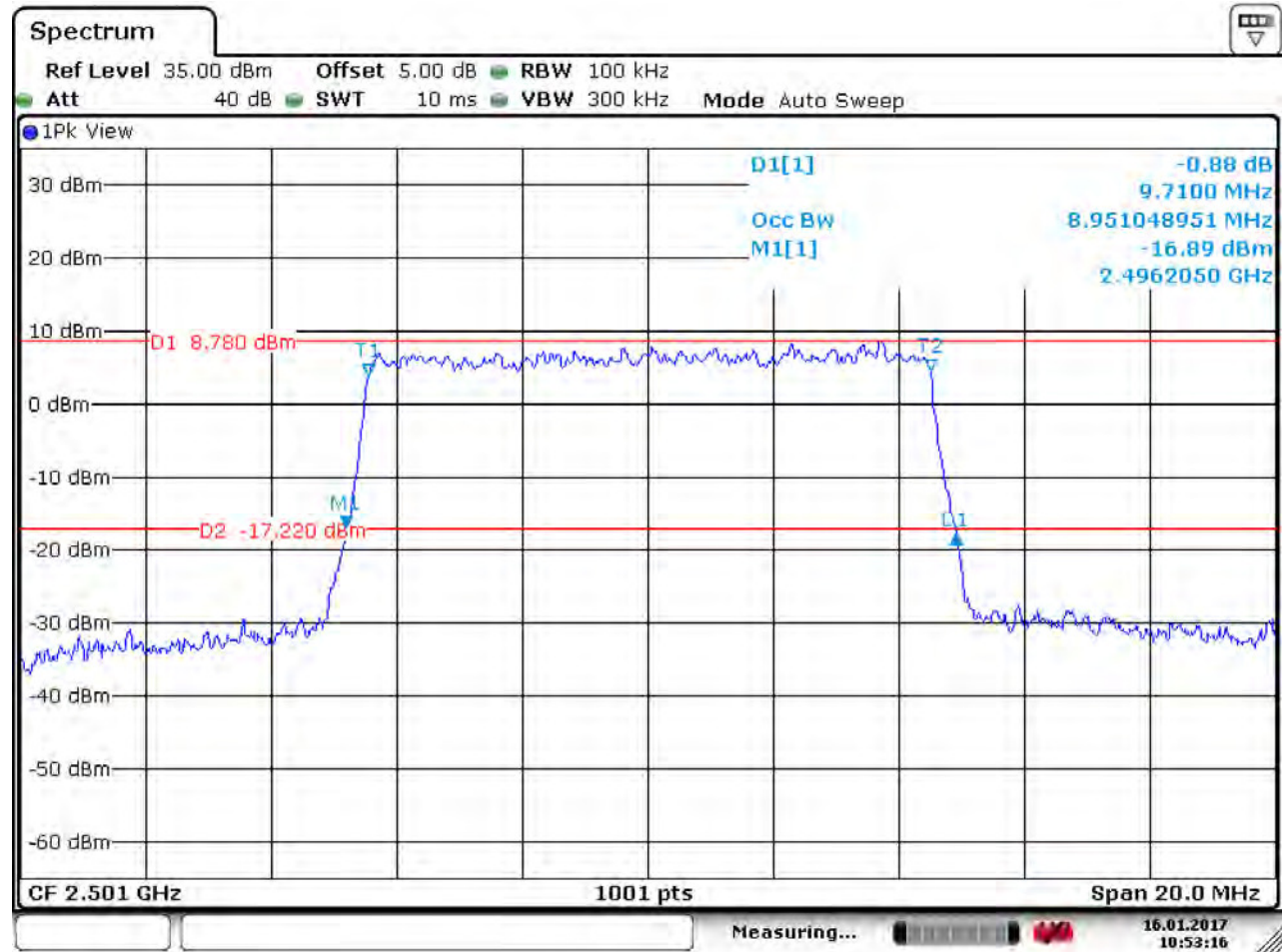
4.1.1.5.3 Test Channel = HCH



Date: 16.JAN.2017 10:43:04

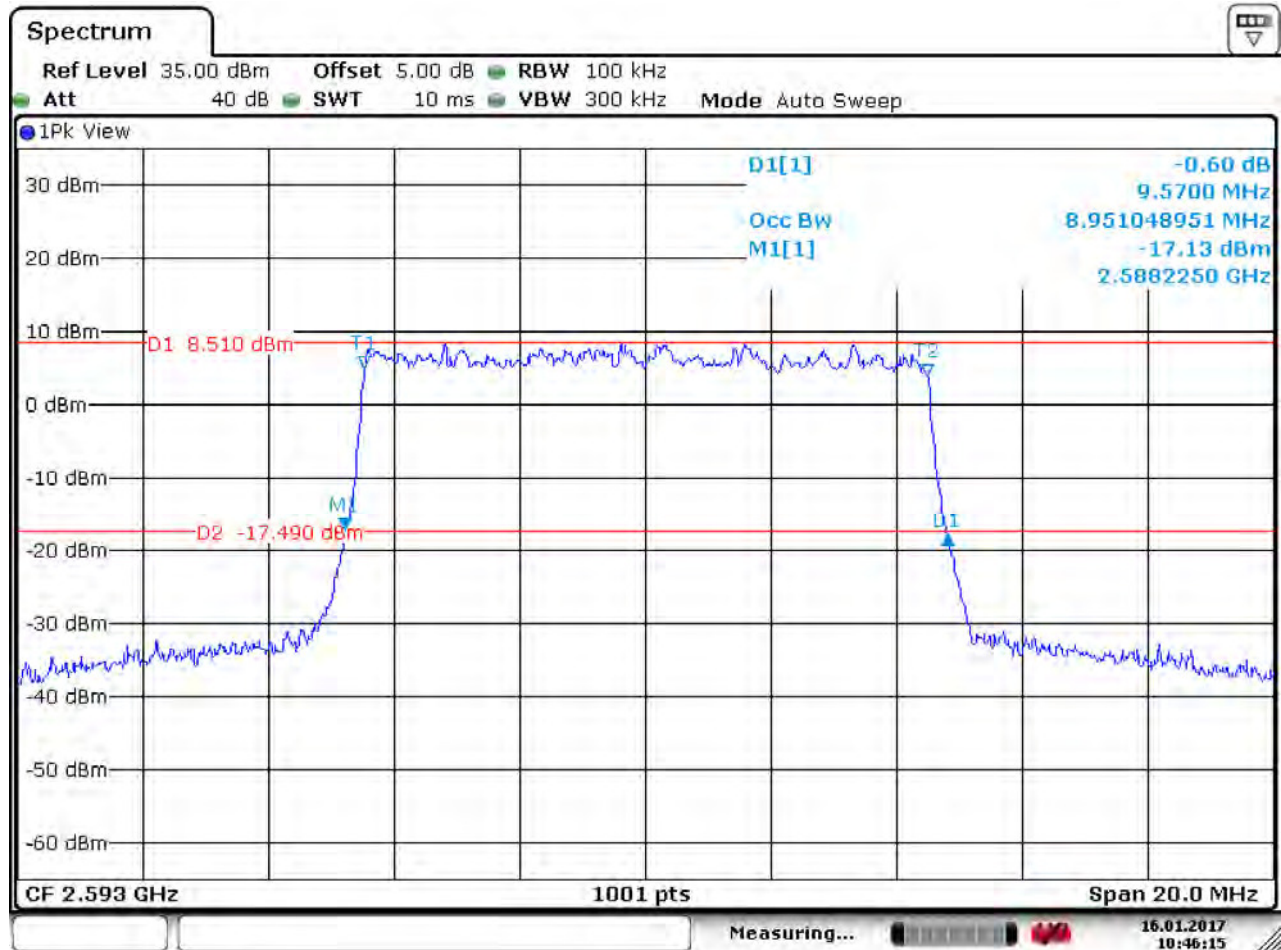
4.1.1.6 Test Mode = LTE/TM3 10MHz

4.1.1.6.1 Test Channel = LCH



Date: 16.JAN.2017 10:53:17

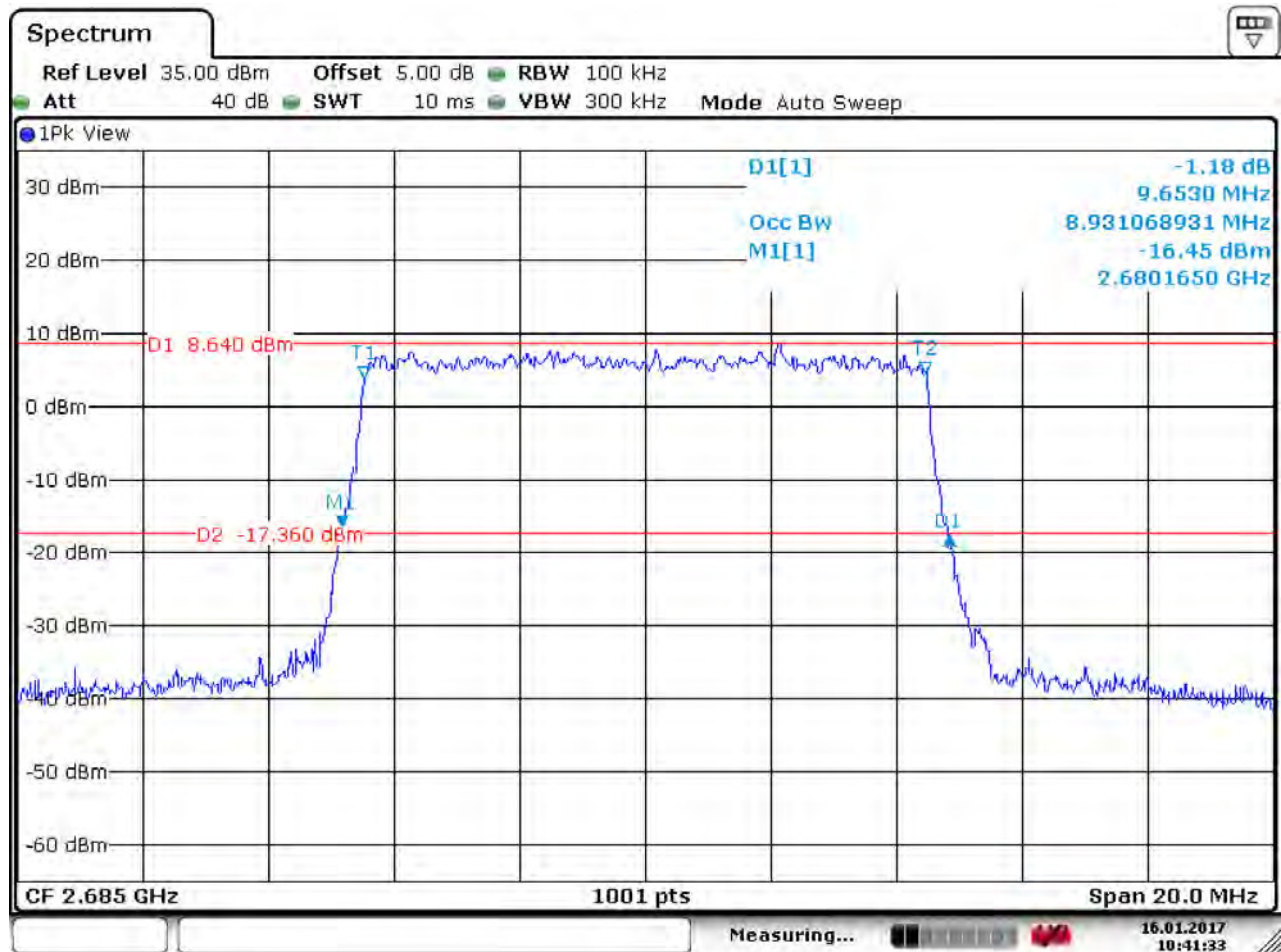
4.1.1.6.2 Test Channel = MCH



Date: 16.JAN.2017 10:46:15



4.1.1.6.3 Test Channel = HCH

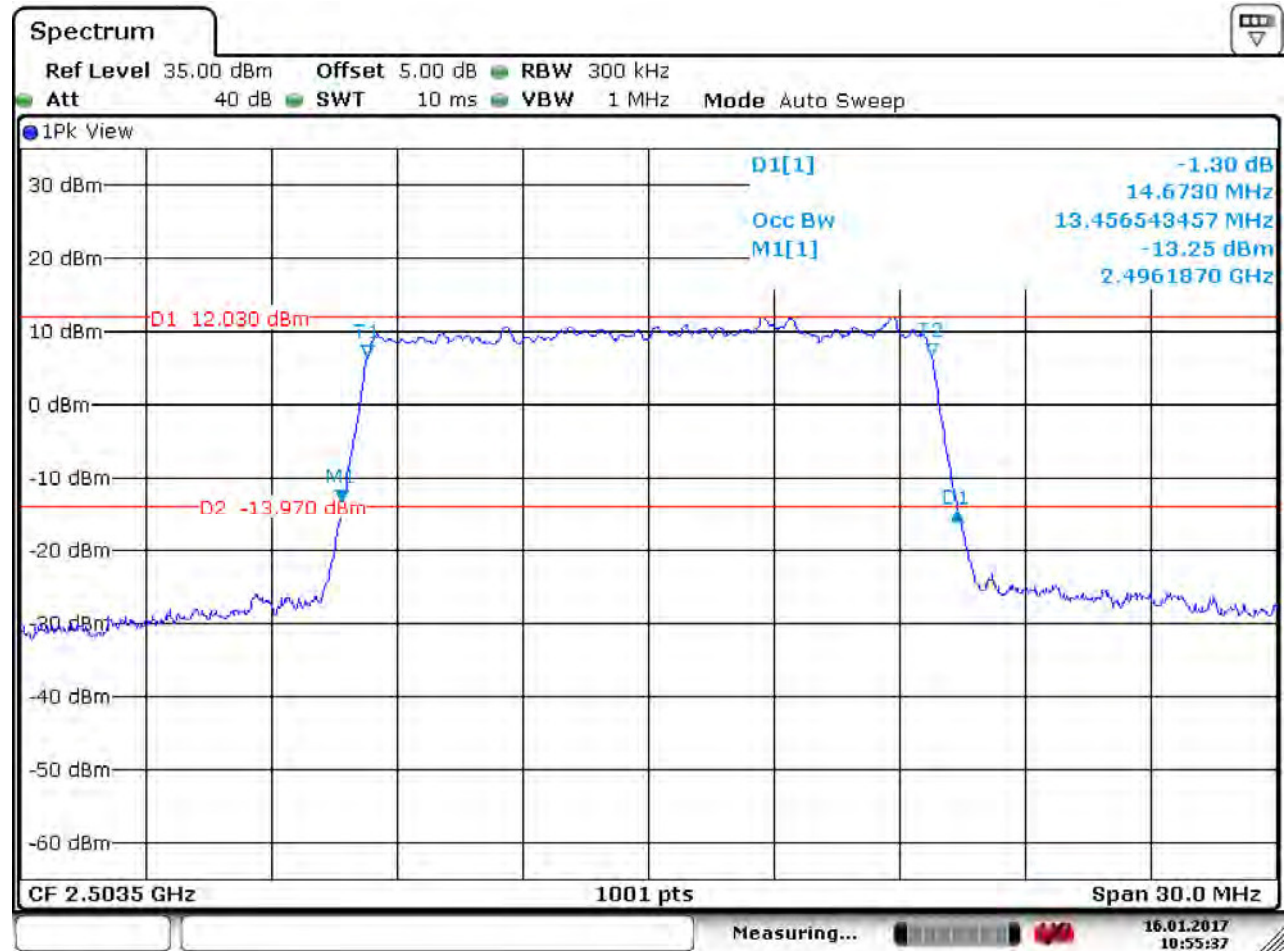


Date: 16.JAN.2017 10:41:33



4.1.1.7 Test Mode = LTE/TM1 15MHz

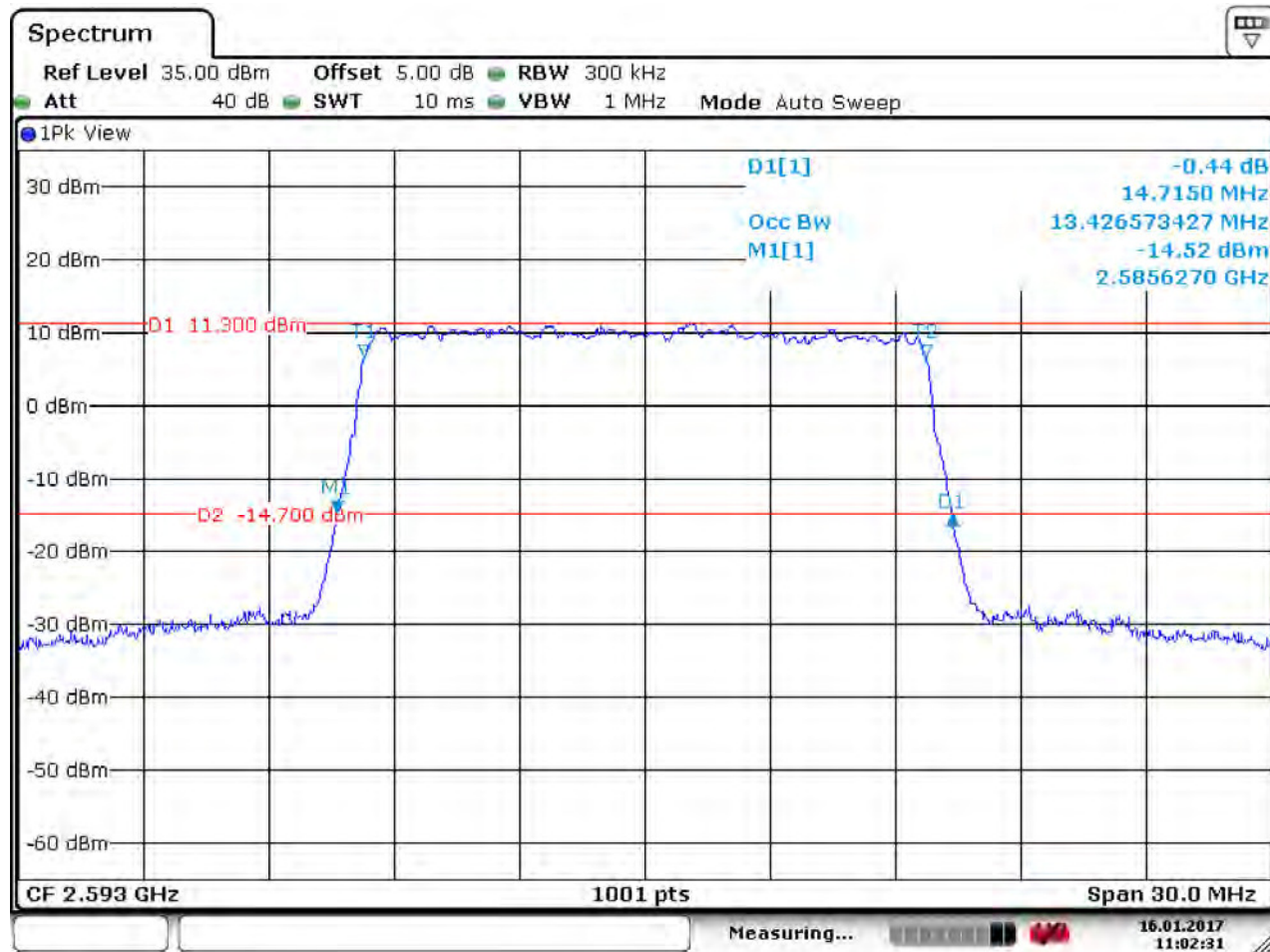
4.1.1.7.1 Test Channel = LCH



Date: 16.JAN.2017 10:55:38

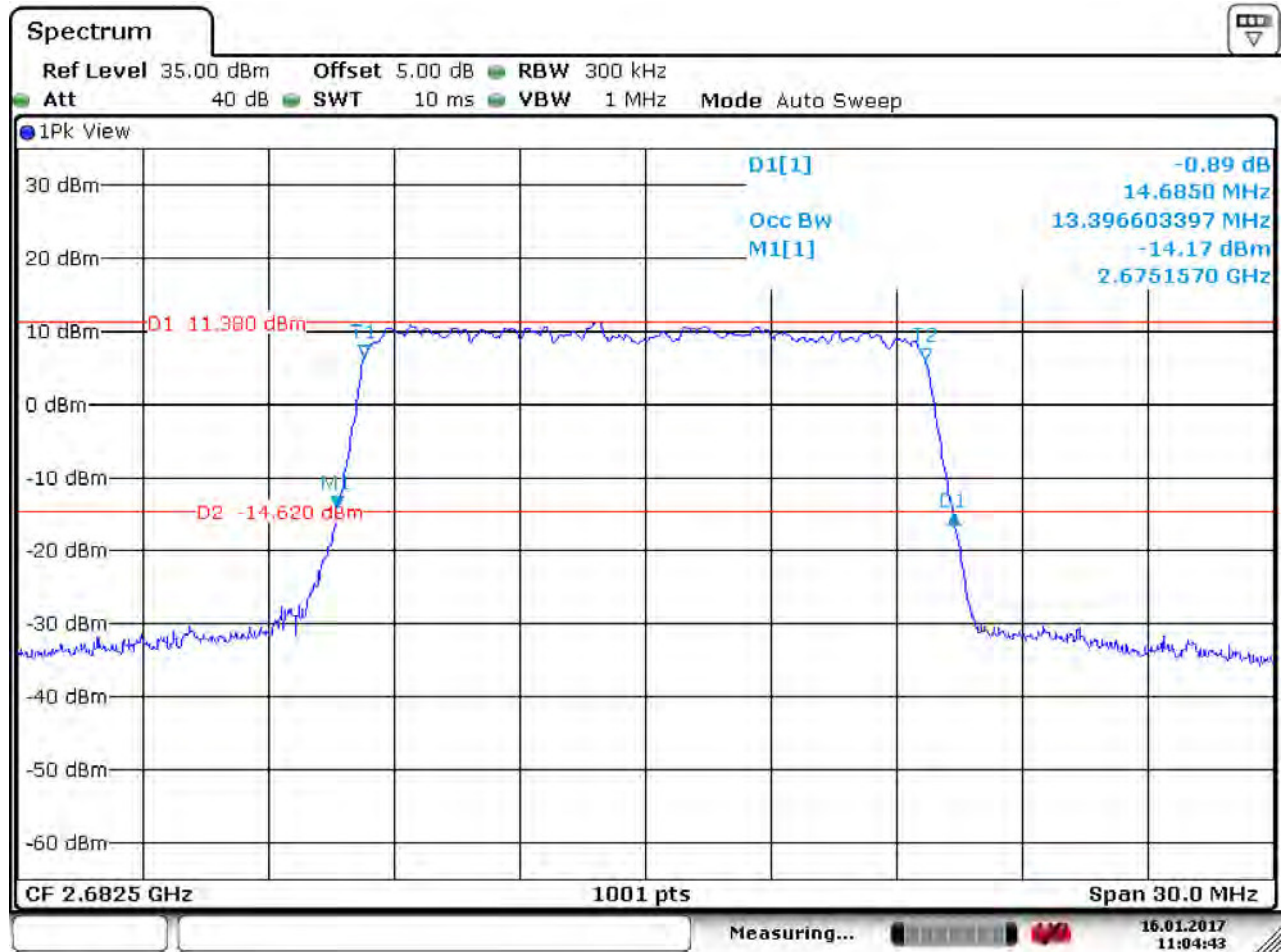


4.1.1.7.2 Test Channel = MCH



Date: 16.JAN.2017 11:02:32

4.1.1.7.3 Test Channel = HCH

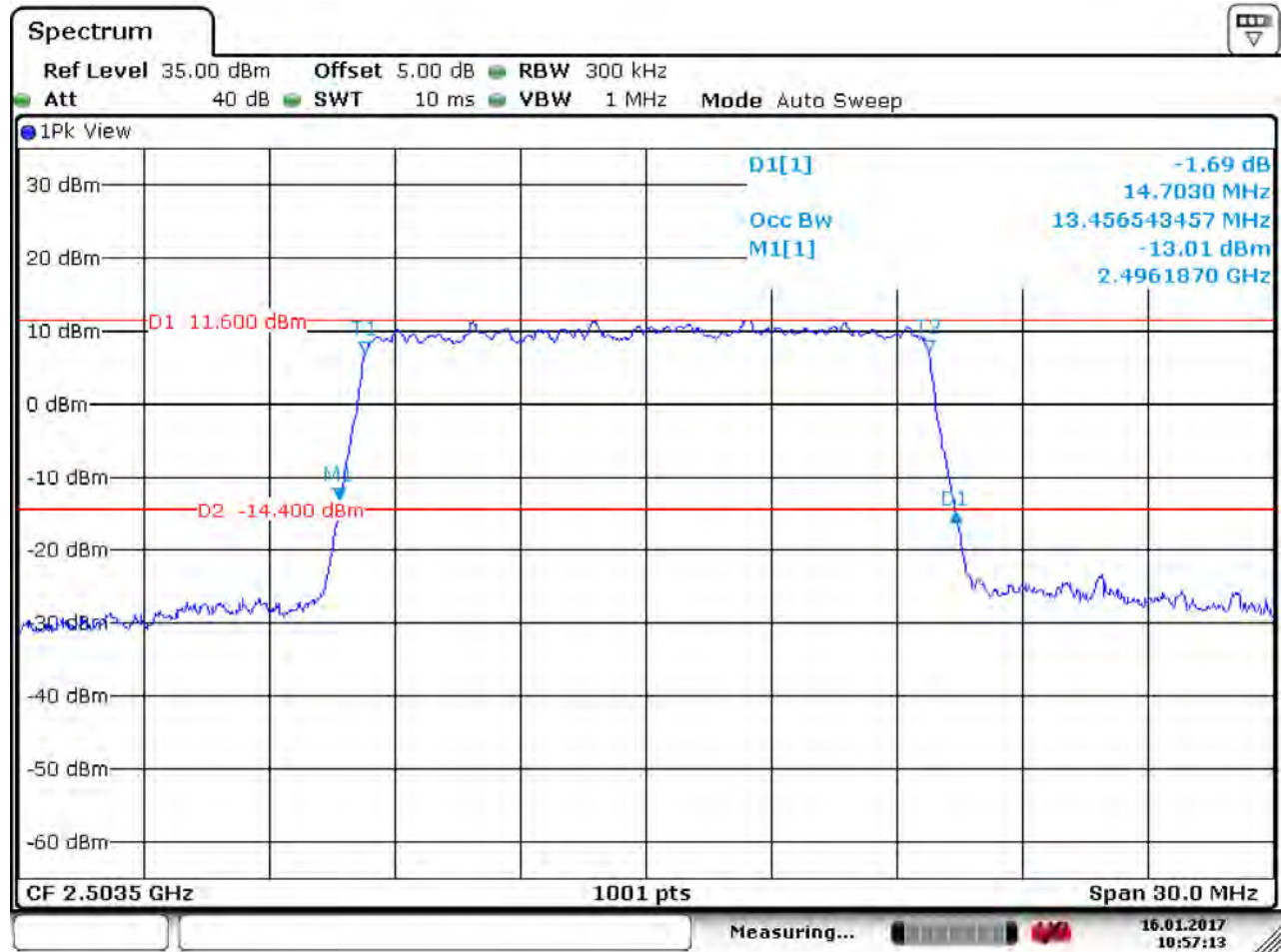


Date: 16.JAN.2017 11:04:43



4.1.1.8 Test Mode = LTE/TM2 15MHz

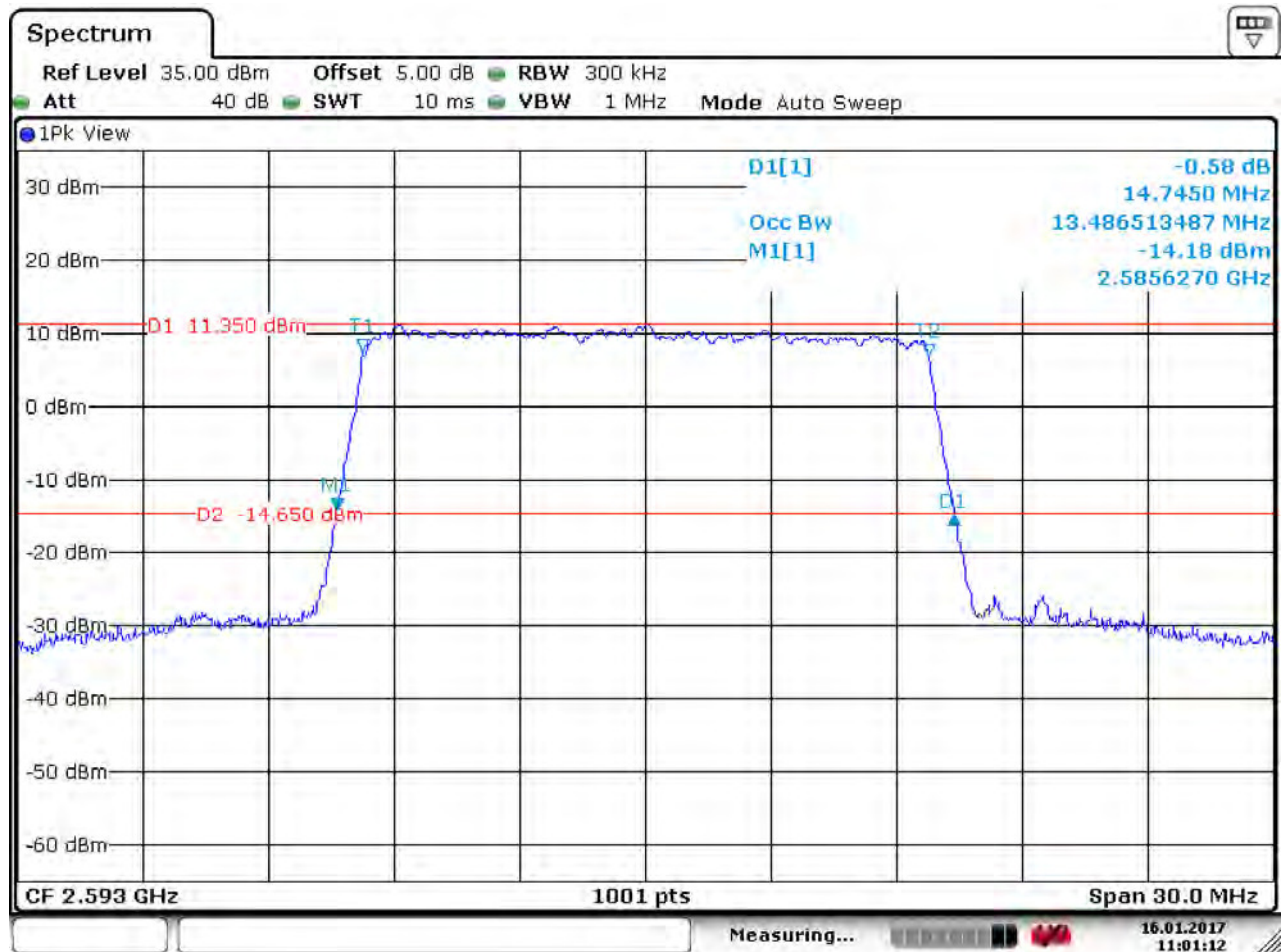
4.1.1.8.1 Test Channel = LCH



Date: 16.JAN.2017 10:57:13

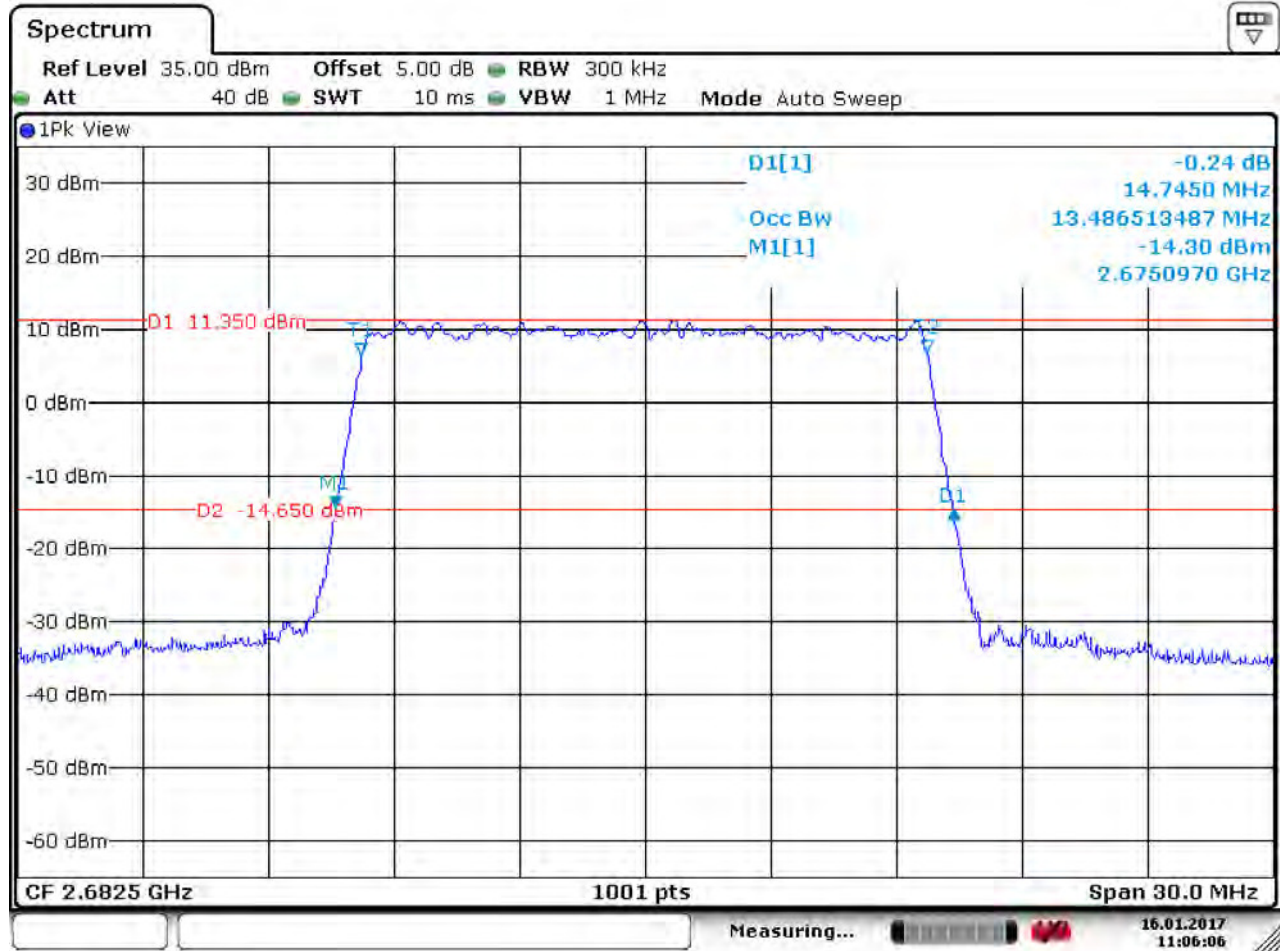


4.1.1.8.2 Test Channel = MCH



Date: 16.JAN.2017 11:01:13

4.1.1.8.3 Test Channel = HCH

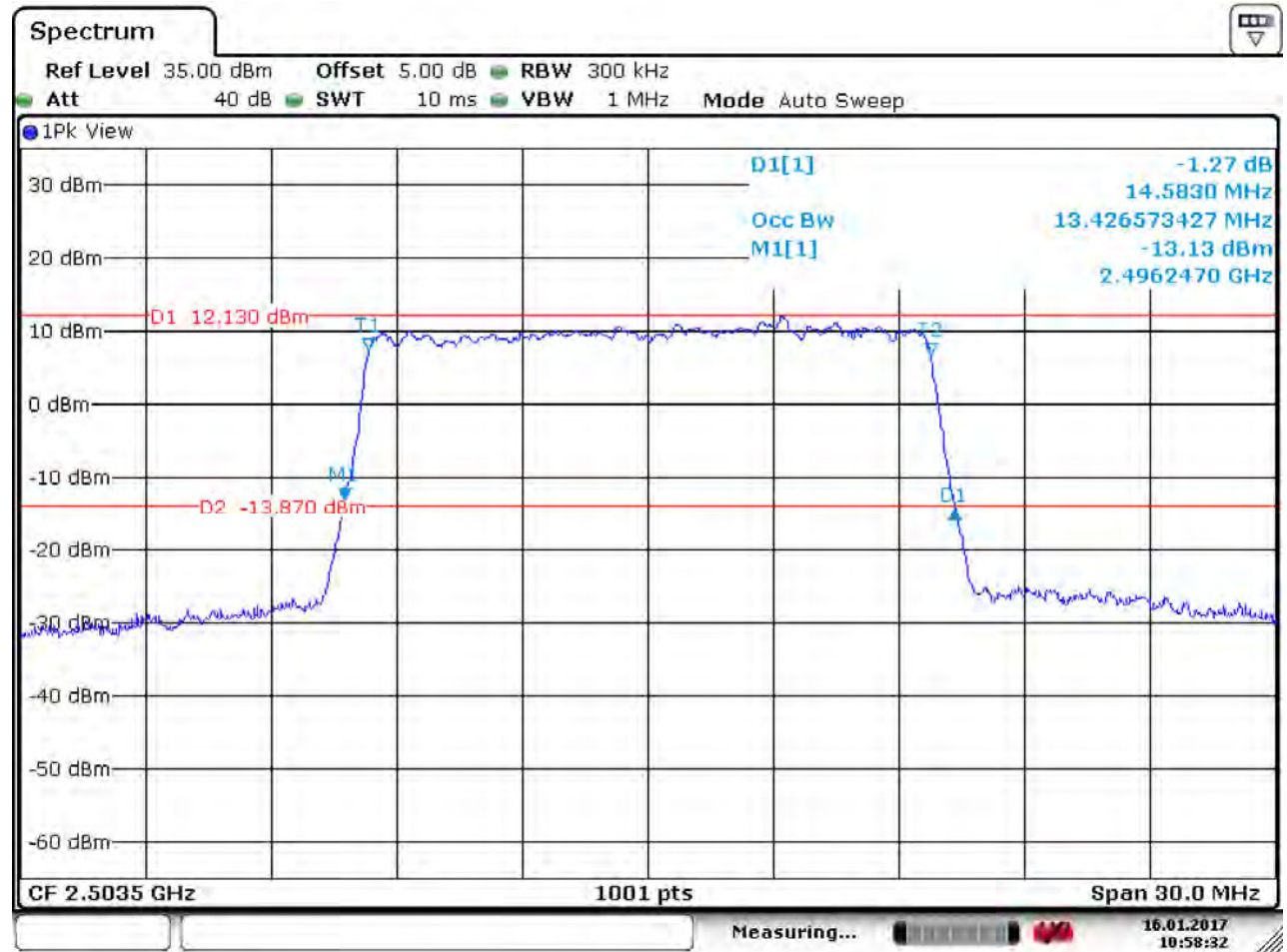


Date: 16.JAN.2017 11:06:07



4.1.1.9 Test Mode = LTE/TM3 15MHz

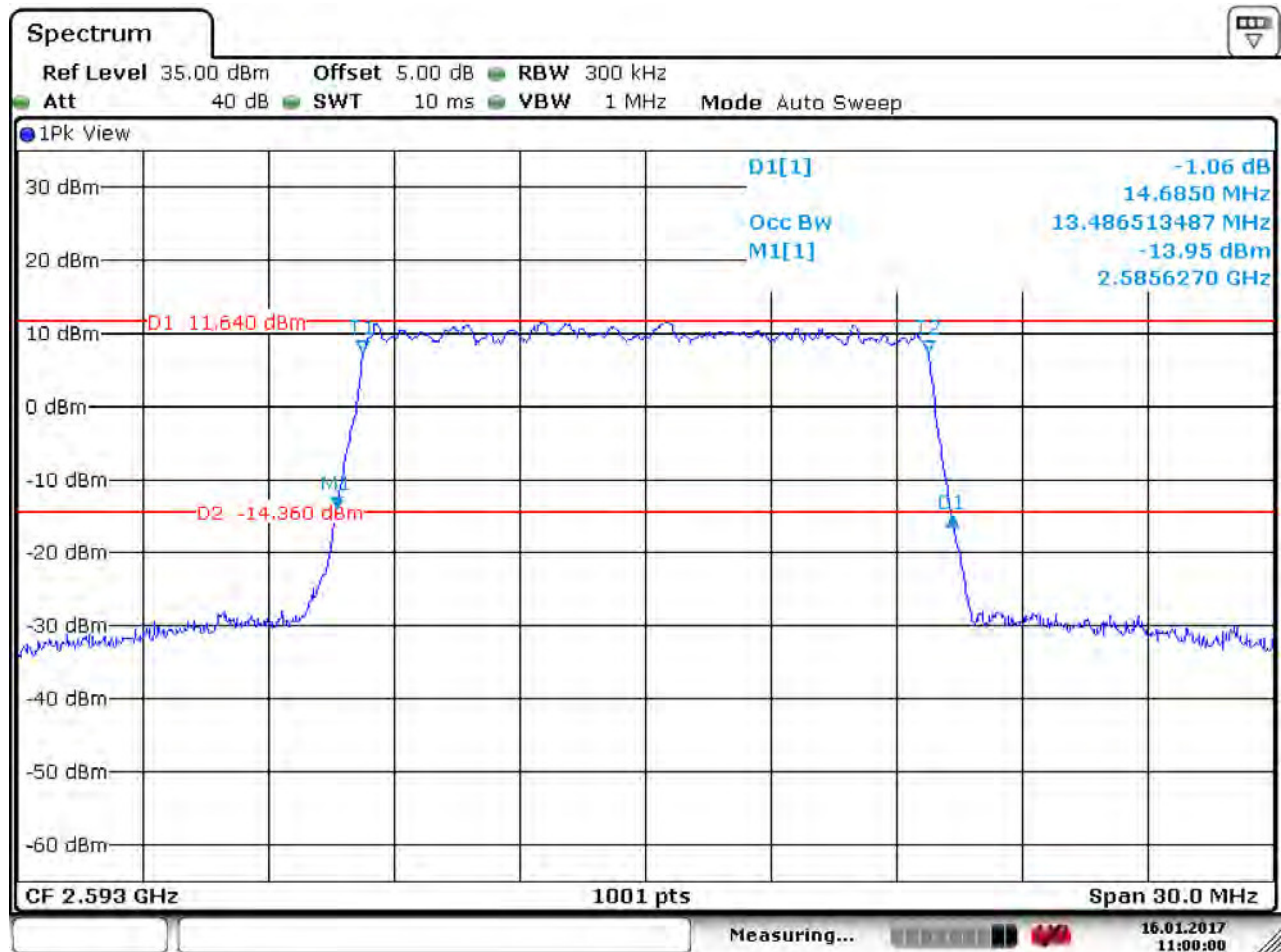
4.1.1.9.1 Test Channel = LCH



Date: 16.JAN.2017 10:58:32



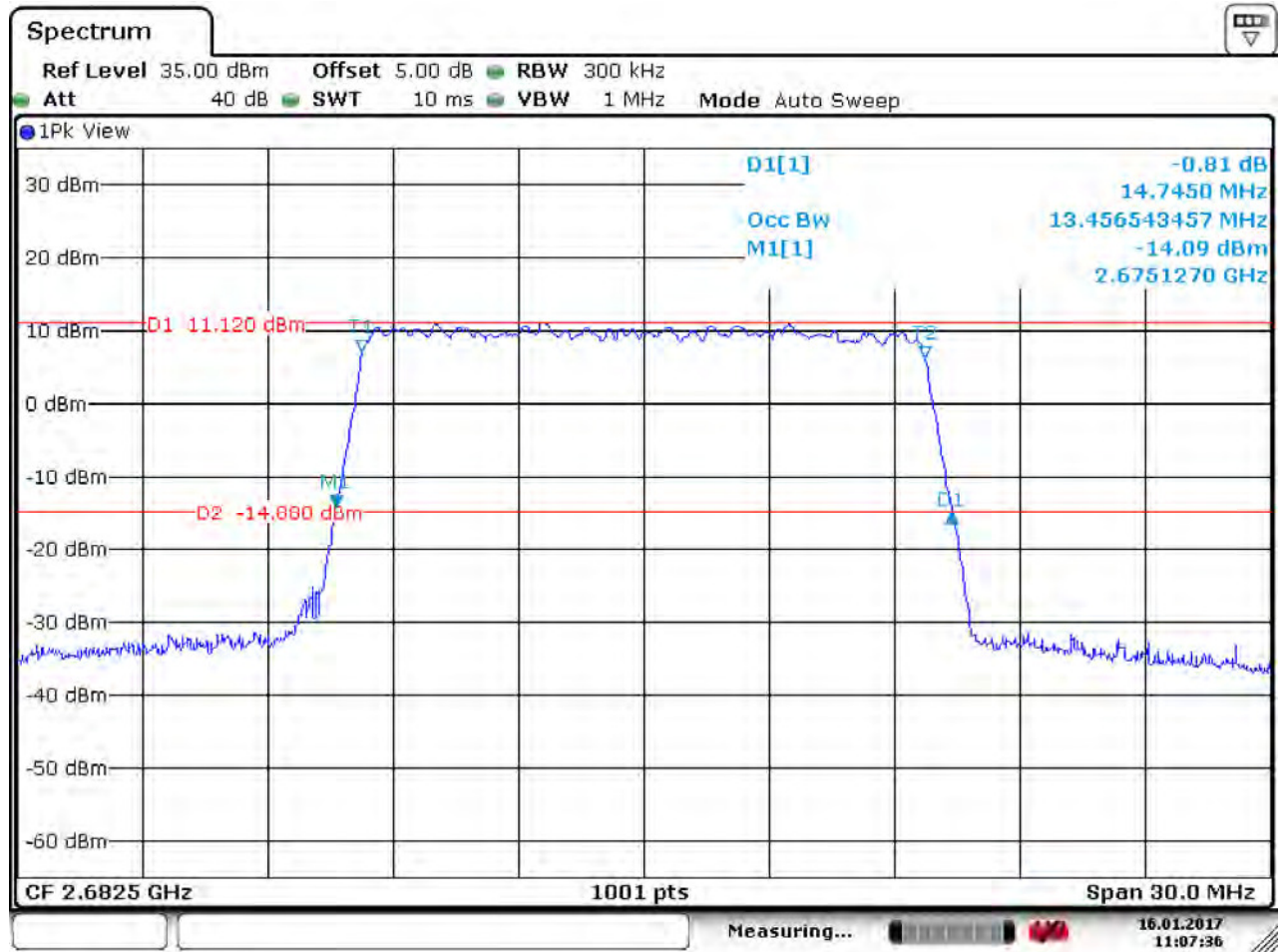
4.1.1.9.2 Test Channel = MCH



Date: 16.JAN.2017 11:00:01



4.1.1.9.3 Test Channel = HCH

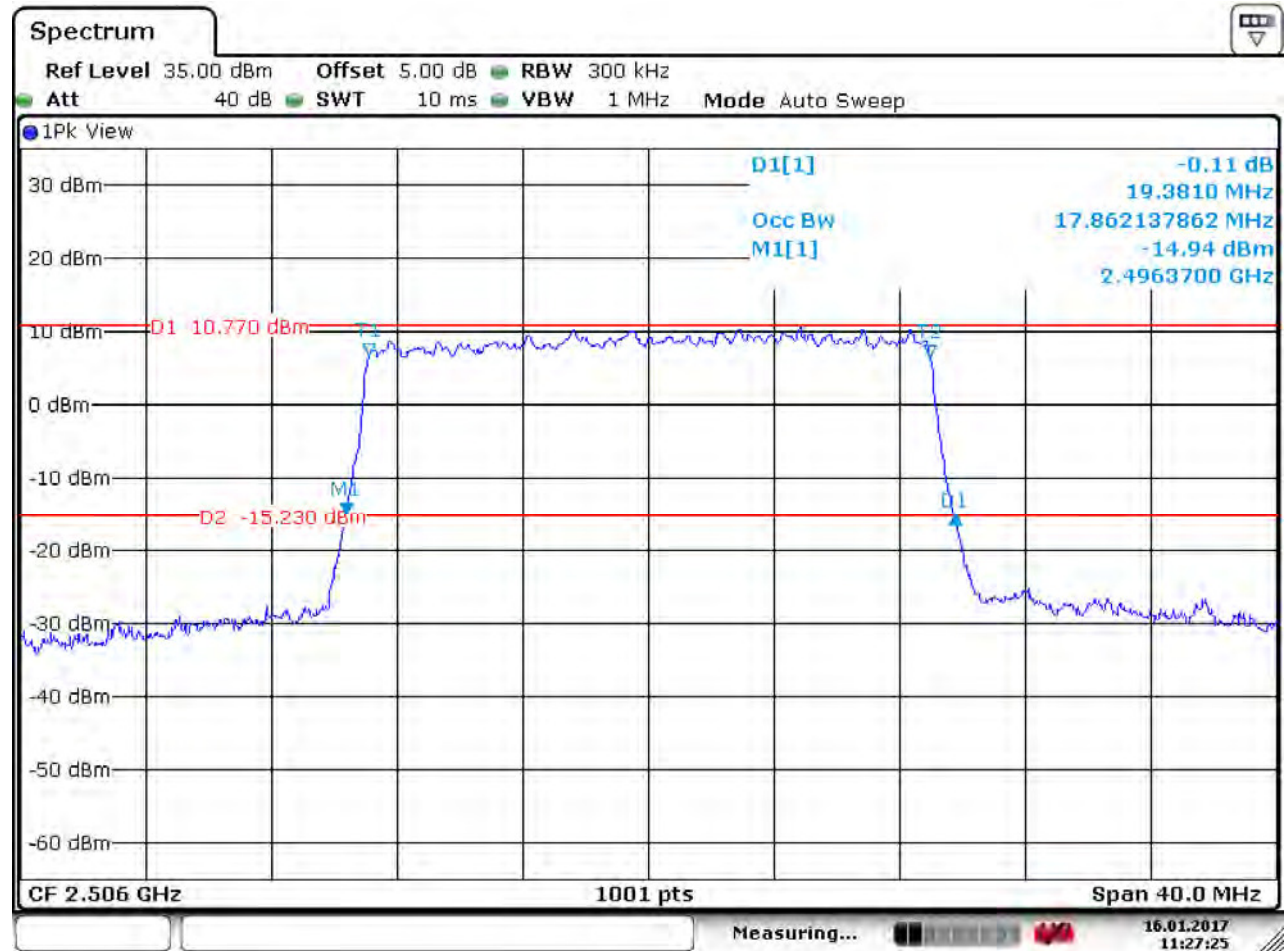


Date: 16.JAN.2017 11:07:37



4.1.1.10 Test Mode = LTE/TM1 20MHz

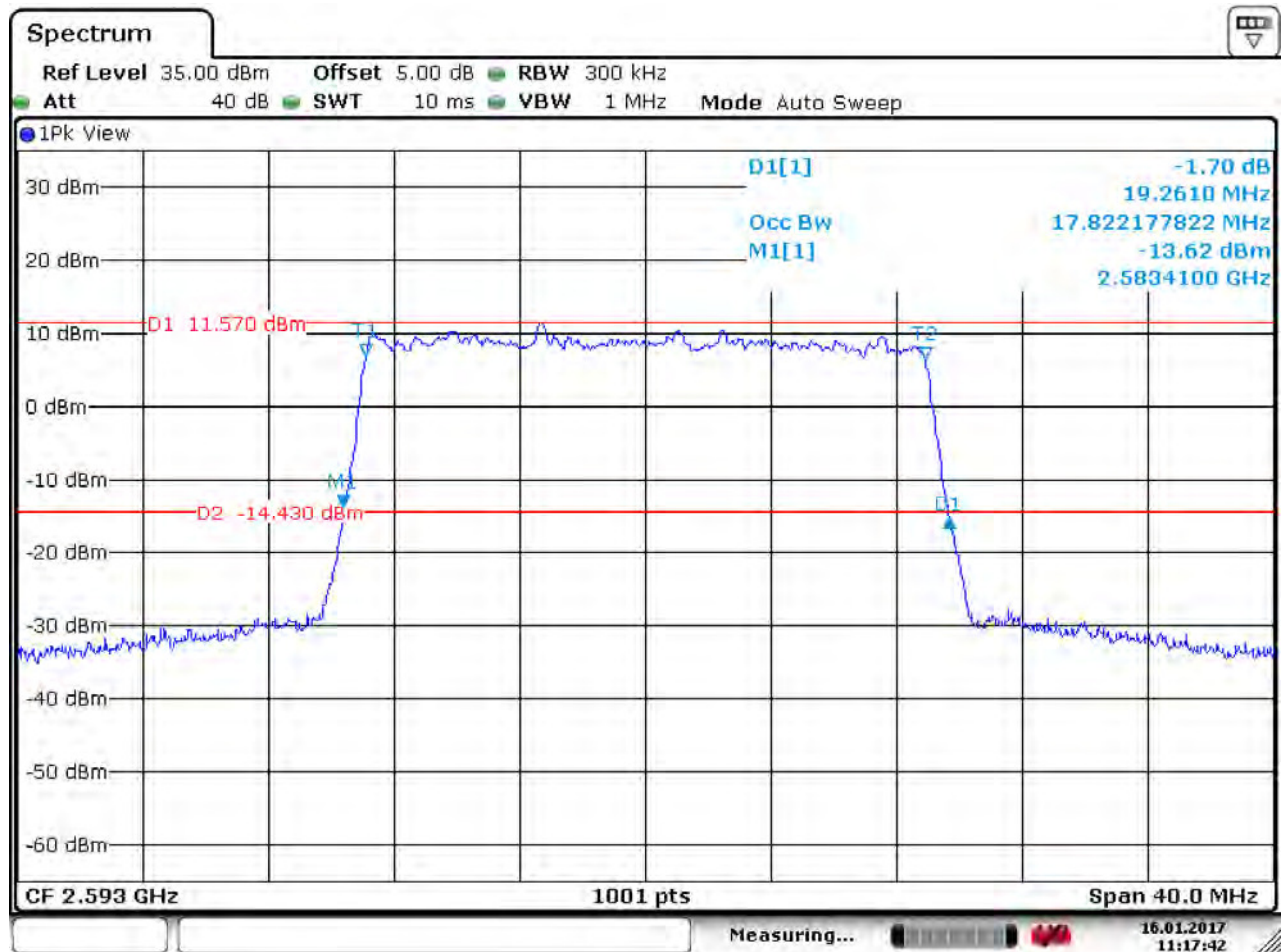
4.1.1.10.1 Test Channel = LCH



Date: 16.JAN.2017 11:27:25



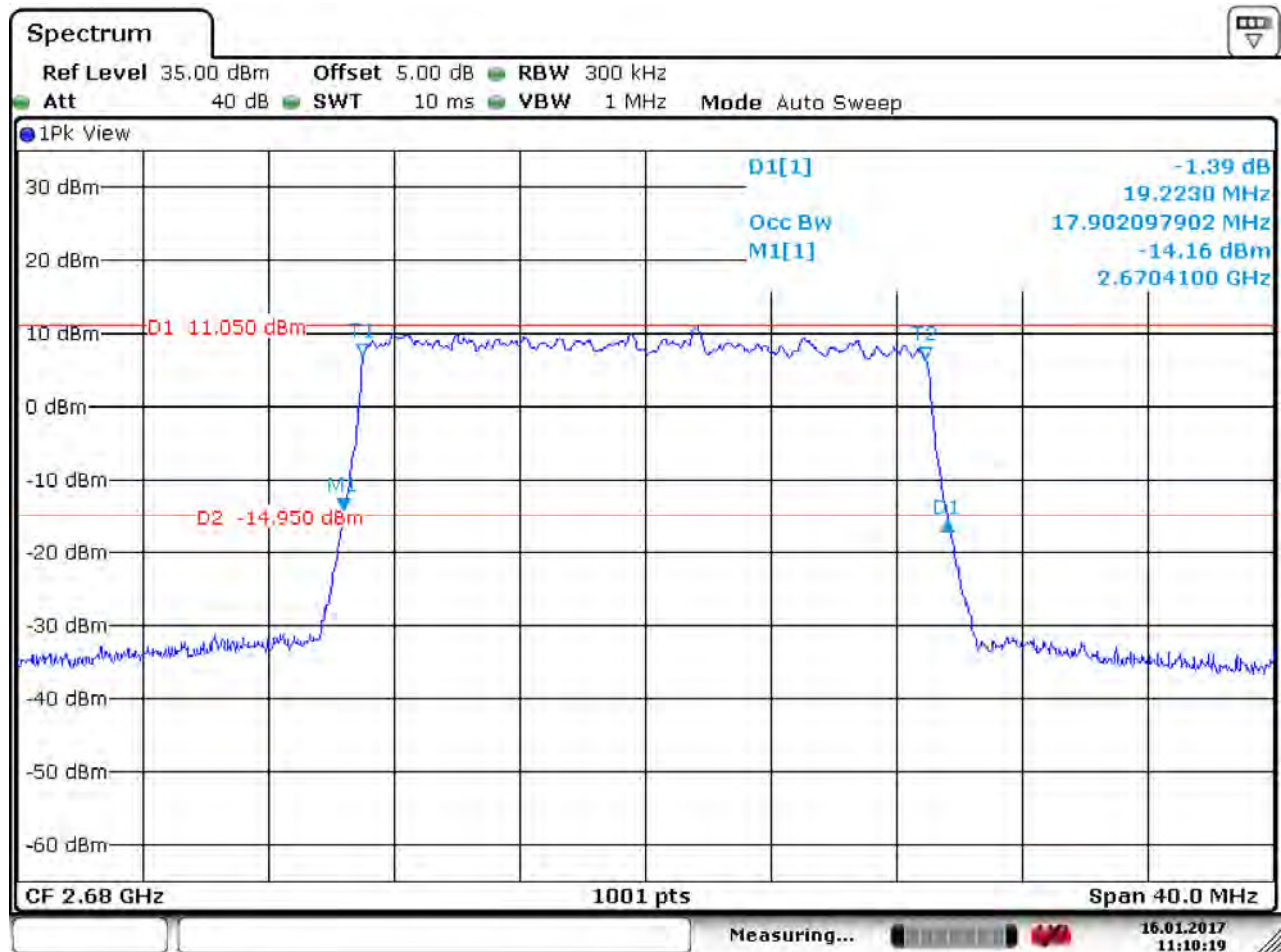
4.1.1.10.2 Test Channel = MCH



Date: 16.JAN.2017 11:17:42



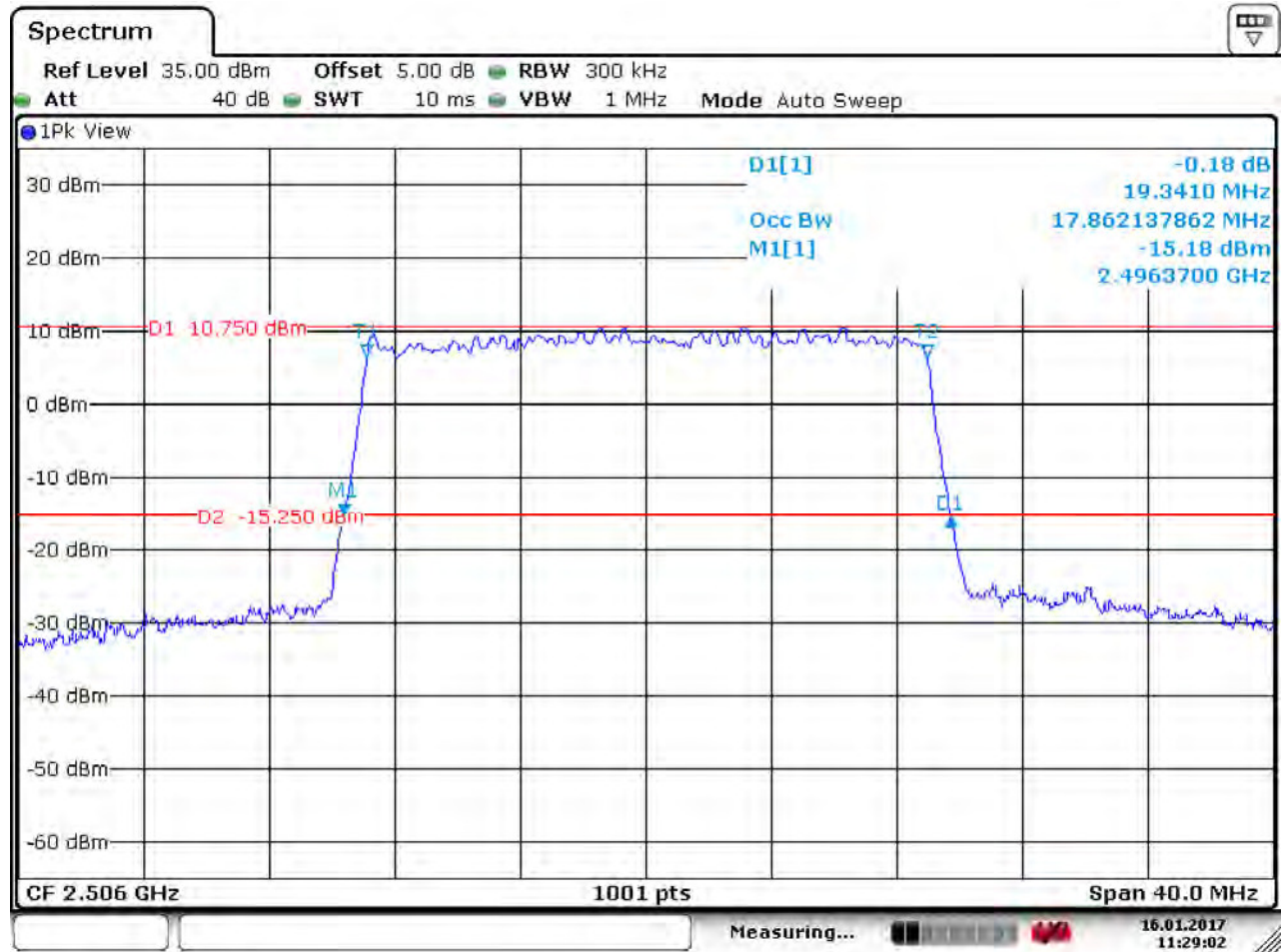
4.1.1.10.3 Test Channel = HCH



Date: 16.JAN.2017 11:10:19

4.1.1.11 Test Mode = LTE/TM2 20MHz

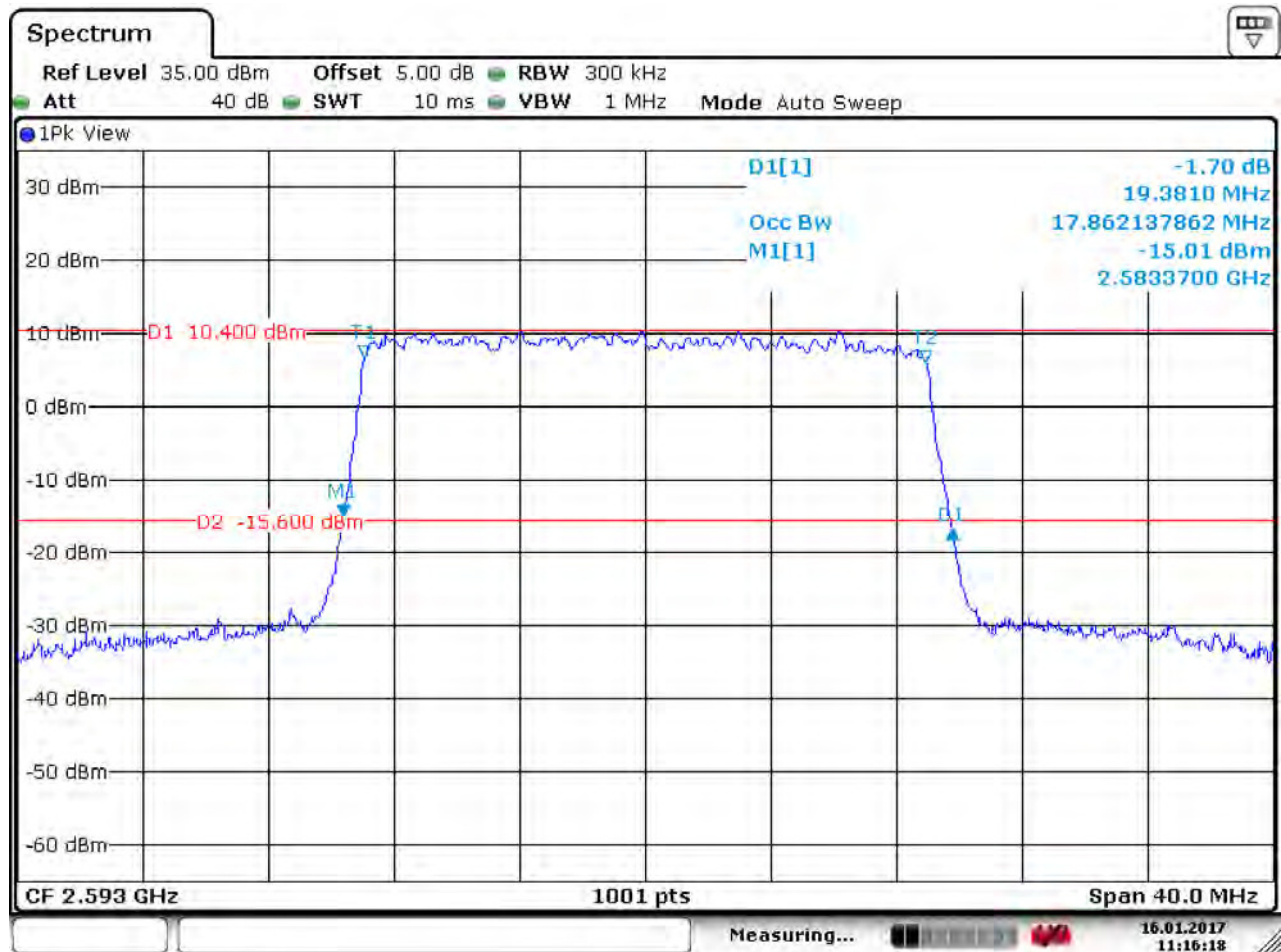
4.1.1.11.1 Test Channel = LCH



Date: 16.JAN.2017 11:29:03



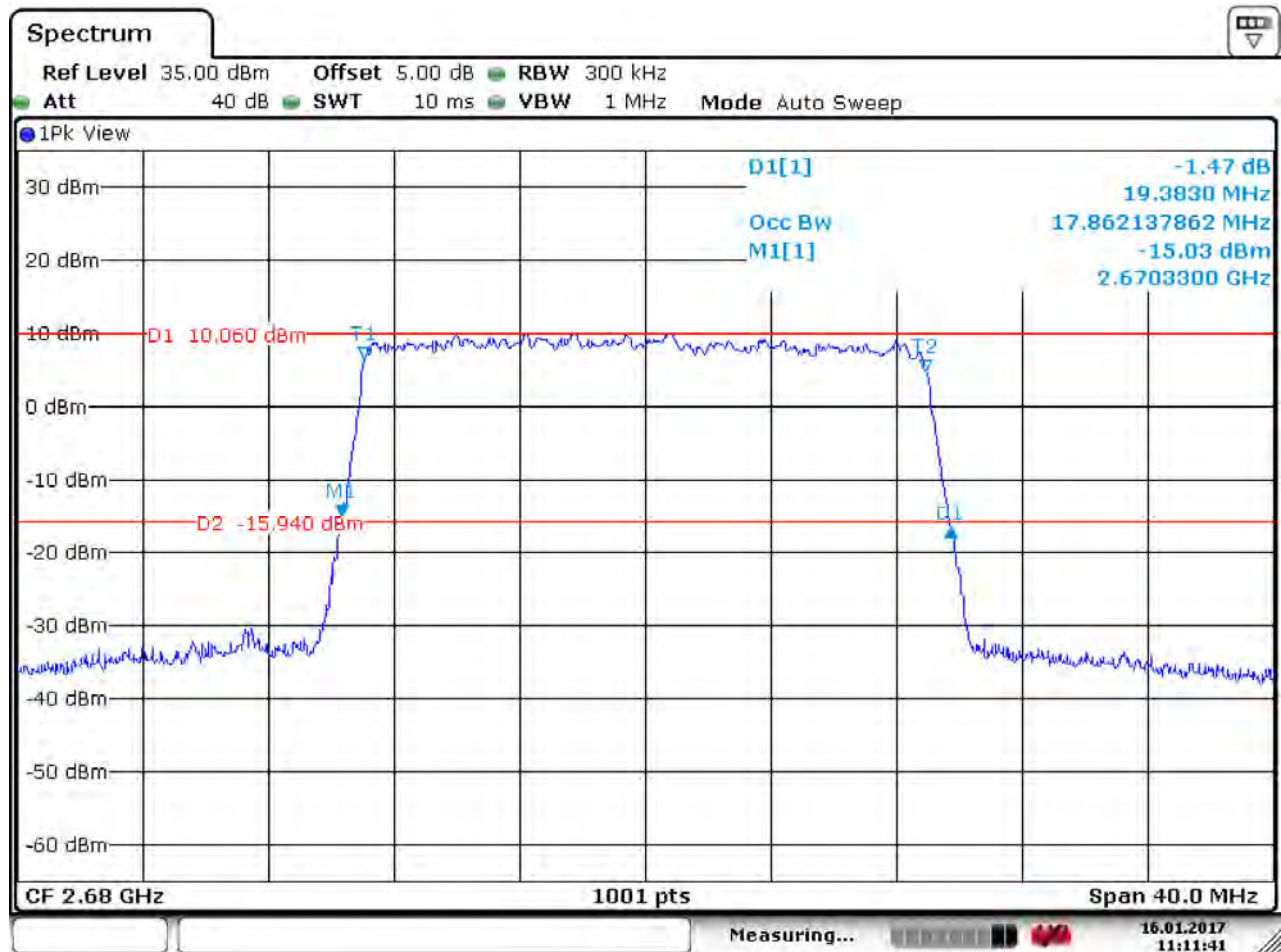
4.1.1.11.2 Test Channel = MCH



Date: 16.JAN.2017 11:16:18



4.1.1.11.3 Test Channel = HCH

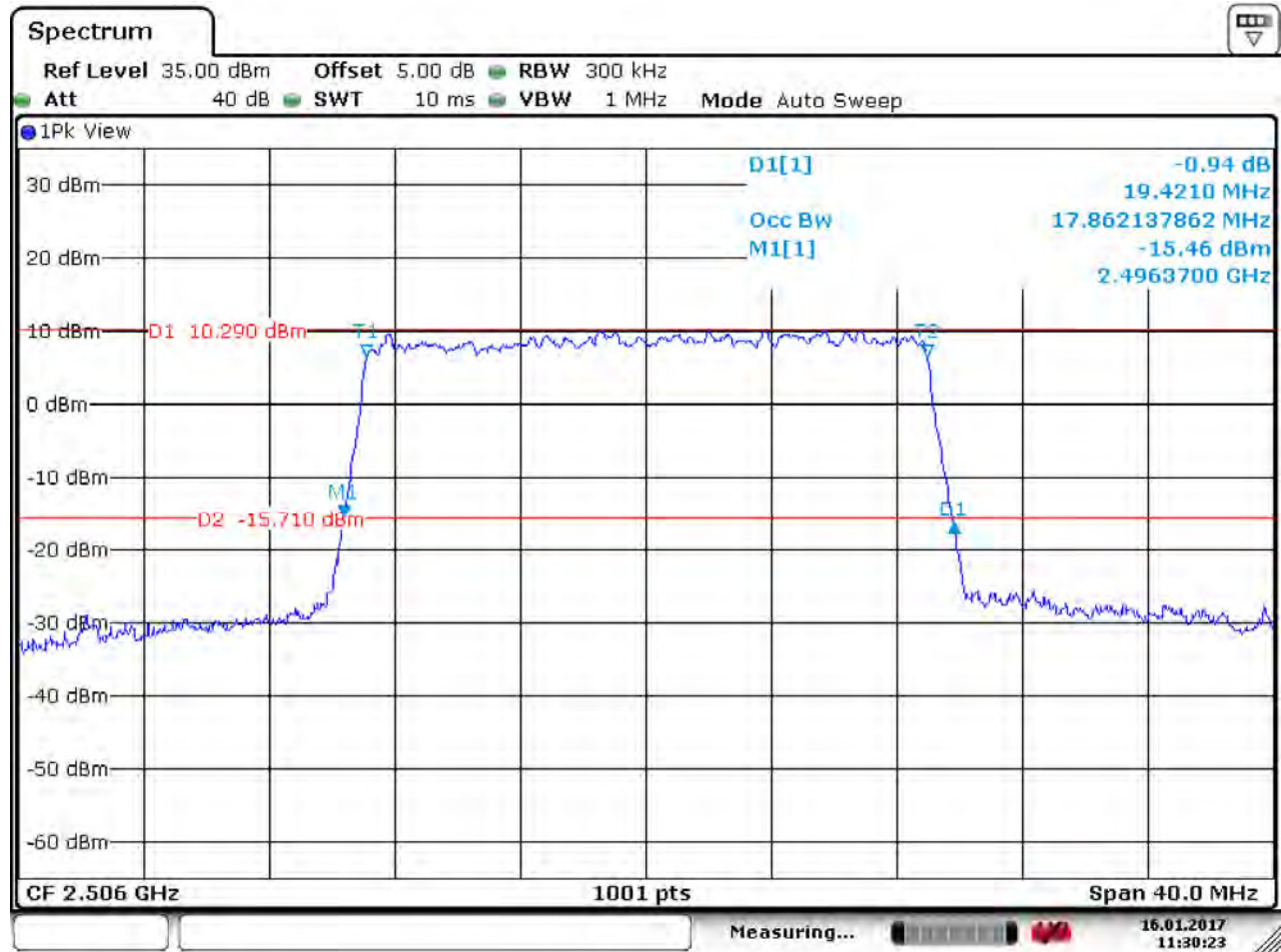


Date: 16.JAN.2017 11:11:42



4.1.1.12 Test Mode = LTE/TM3 20MHz

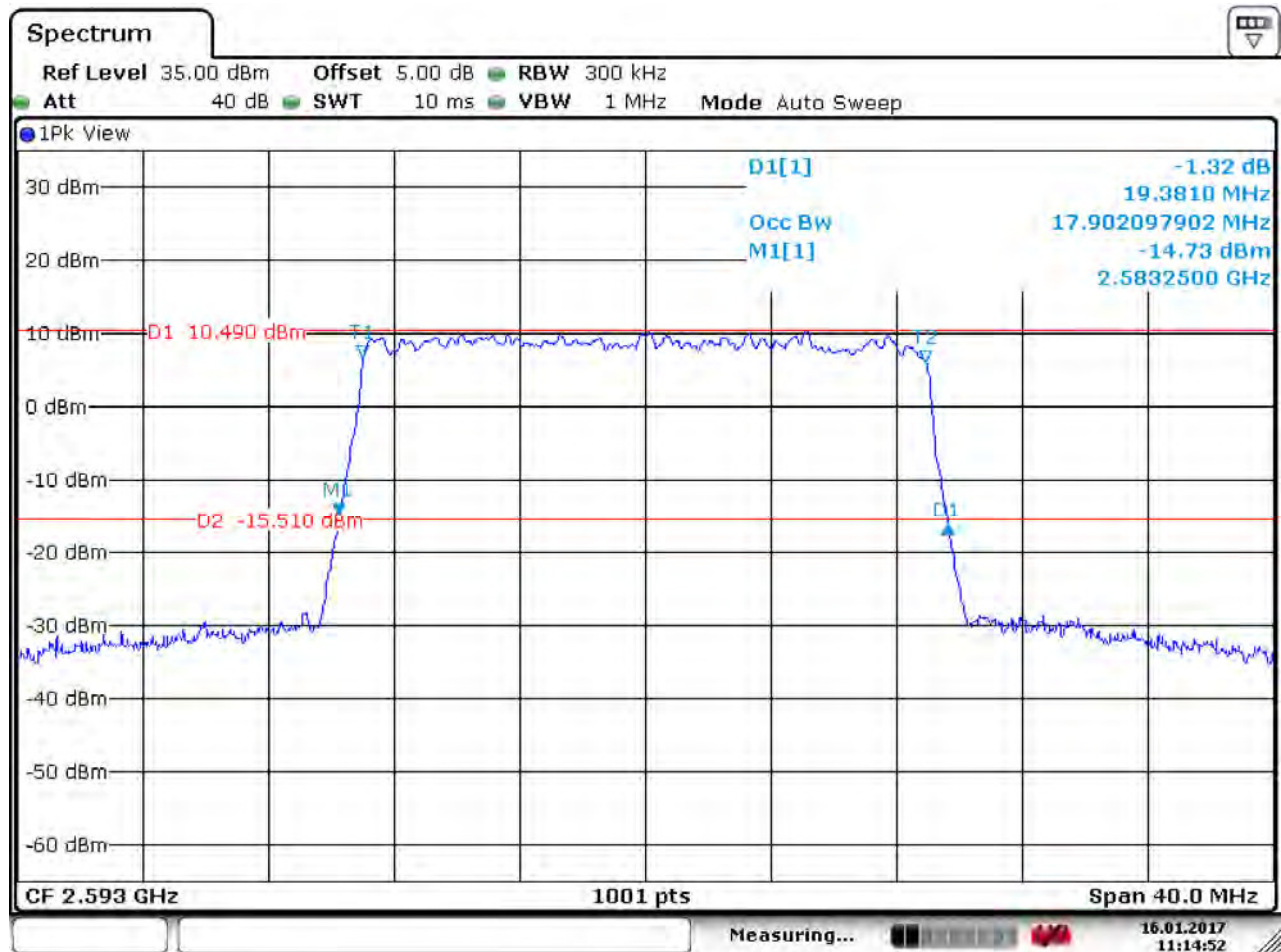
4.1.1.12.1 Test Channel = LCH



Date: 16.JAN.2017 11:30:24



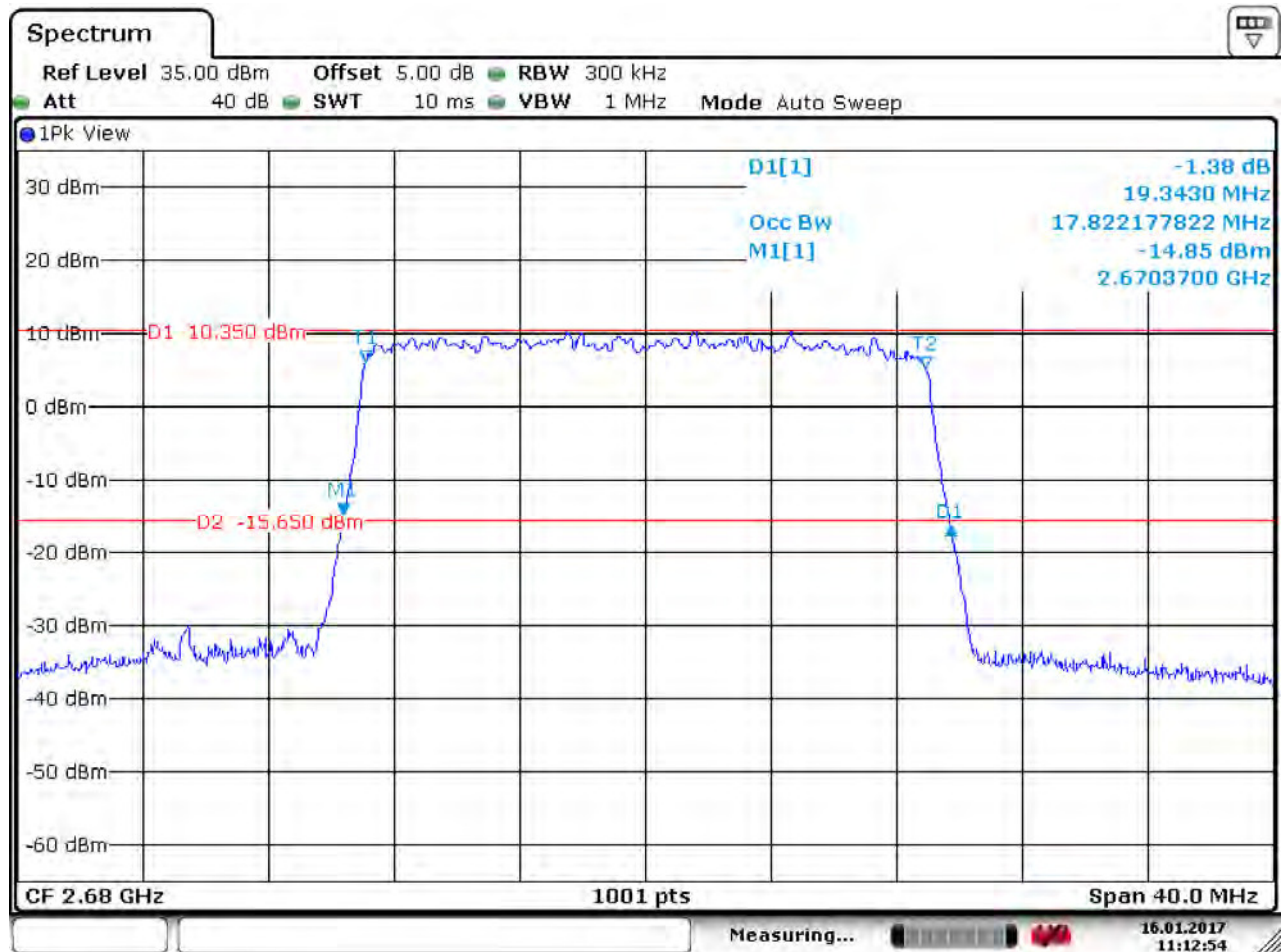
4.1.1.12.2 Test Channel = MCH



Date: 16.JAN.2017 11:14:53



4.1.1.12.3 Test Channel = HCH



Date: 16.JAN.2017 11:12:54

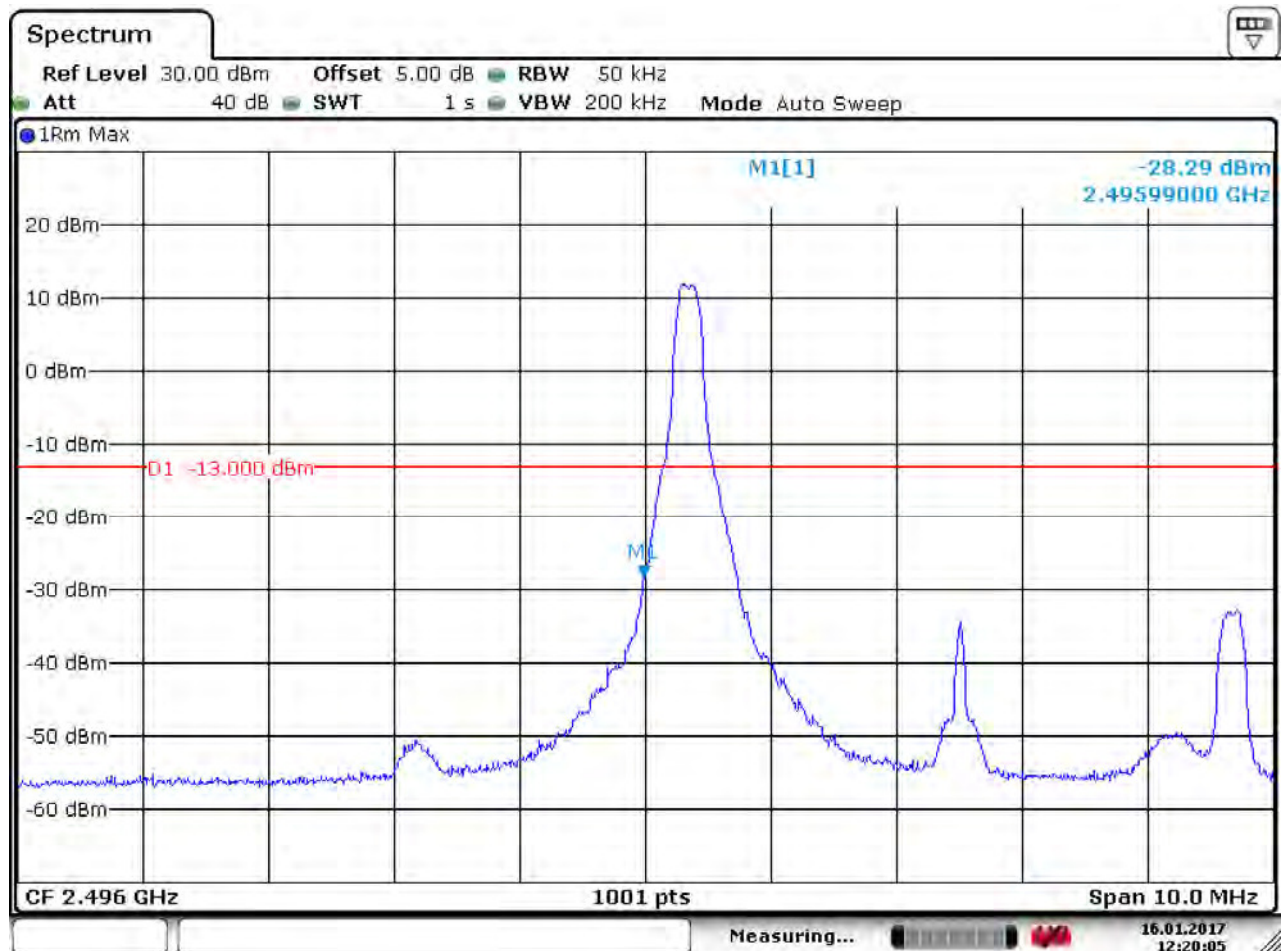
5 Band Edges Compliance

5.1.1 Test Band = LTE band 41

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

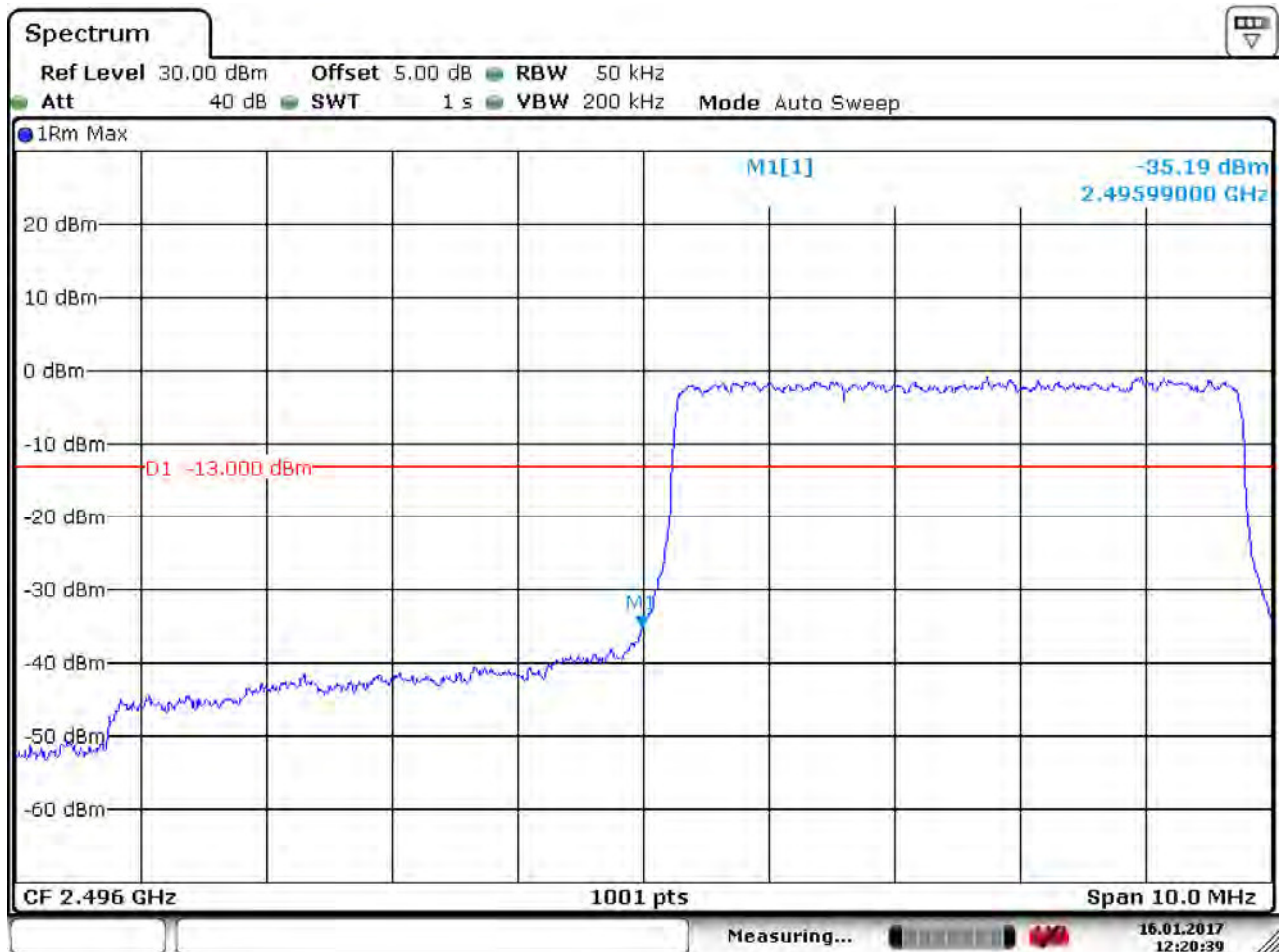
5.1.1.1.1.1 Test RB=1RB



Date: 16.JAN.2017 12:20:06



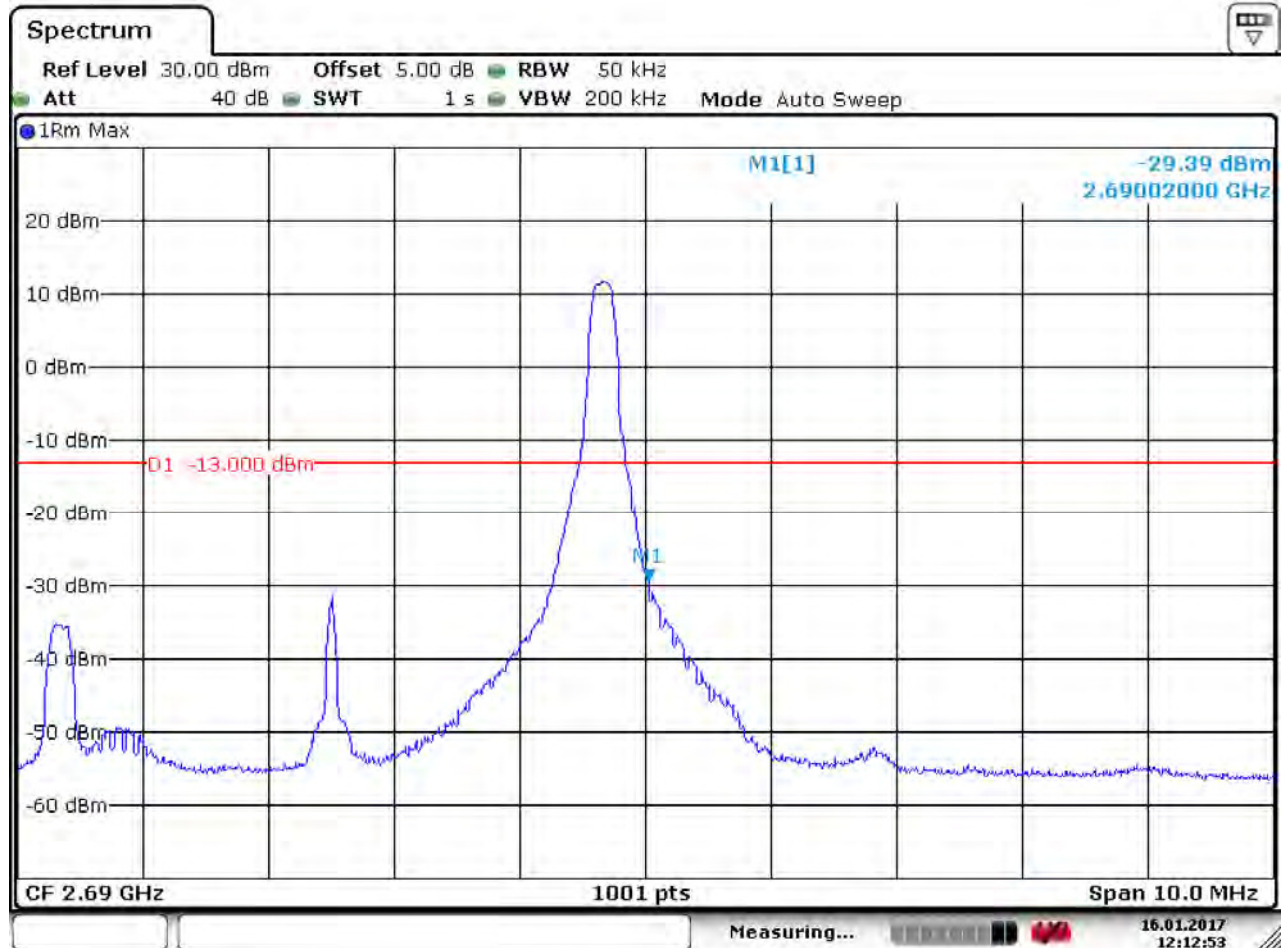
5.1.1.1.2 Test RB=25RB



Date: 16.JAN.2017 12:20:39

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 16.JAN.2017 12:12:54



5.1.1.1.2.2 Test RB=25RB



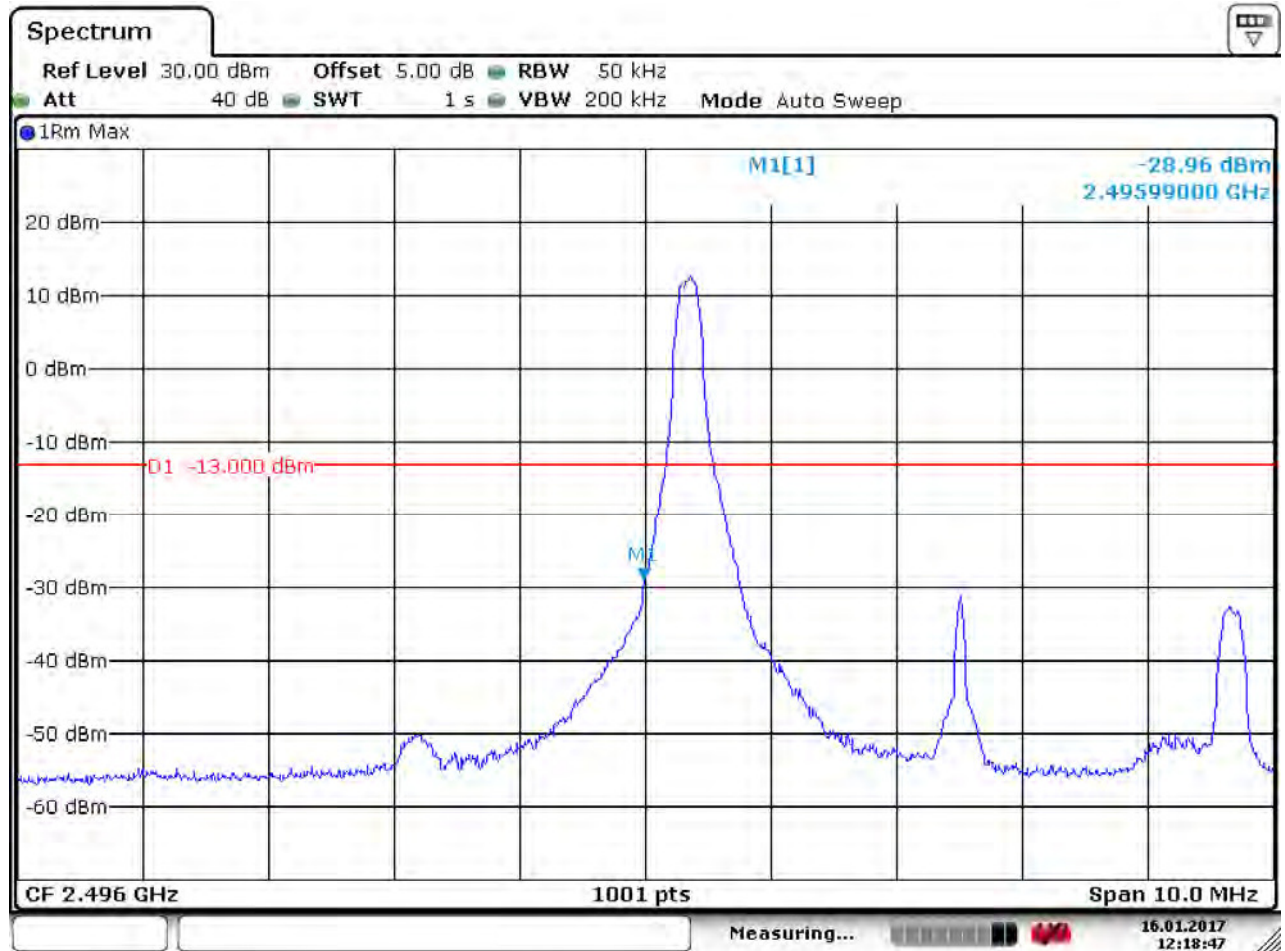
Date: 16.JAN.2017 12:11:17



5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

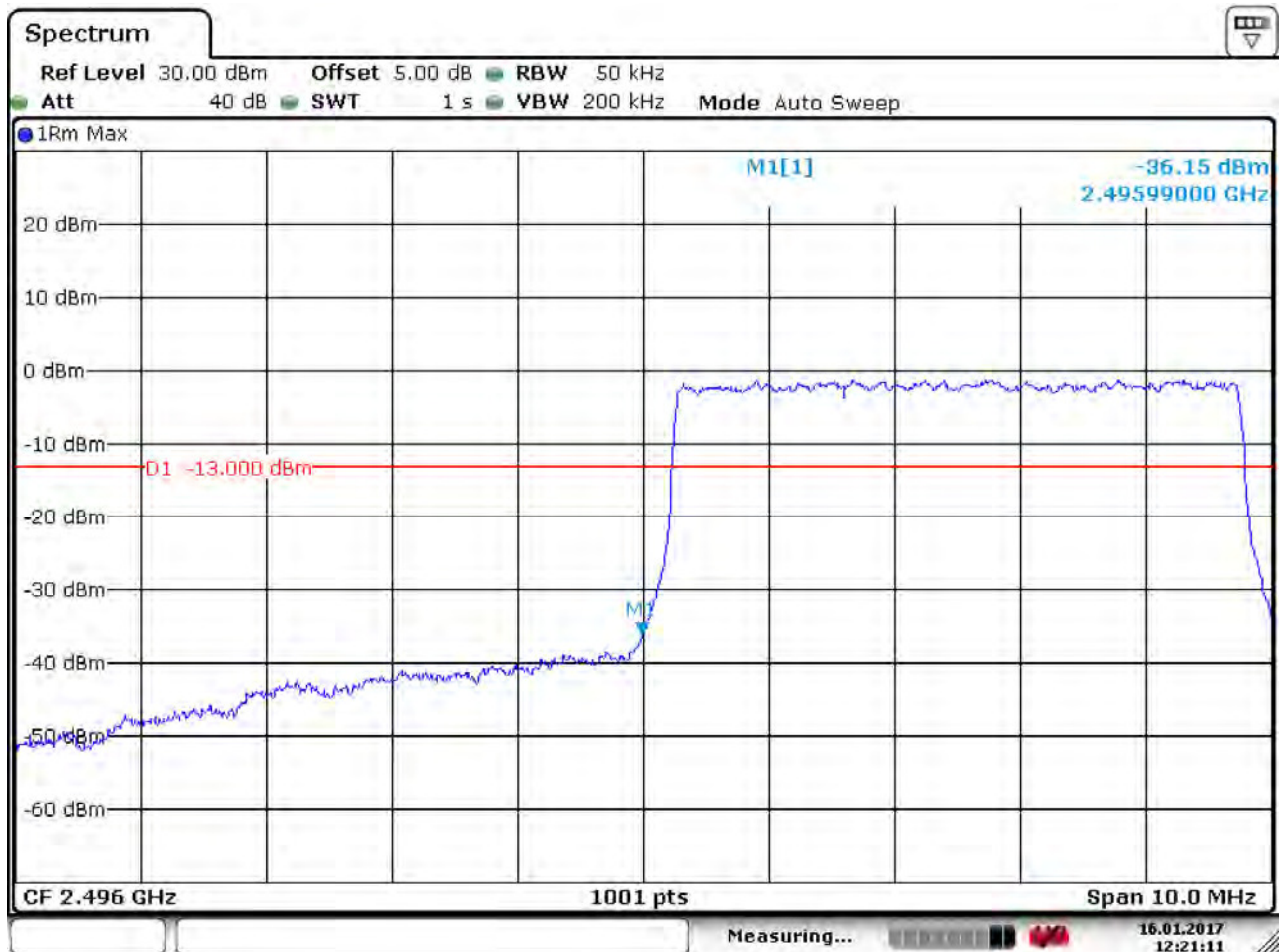
5.1.1.2.1.1 Test RB=1RB



Date: 16.JAN.2017 12:18:48



5.1.1.2.1.2 Test RB=25RB

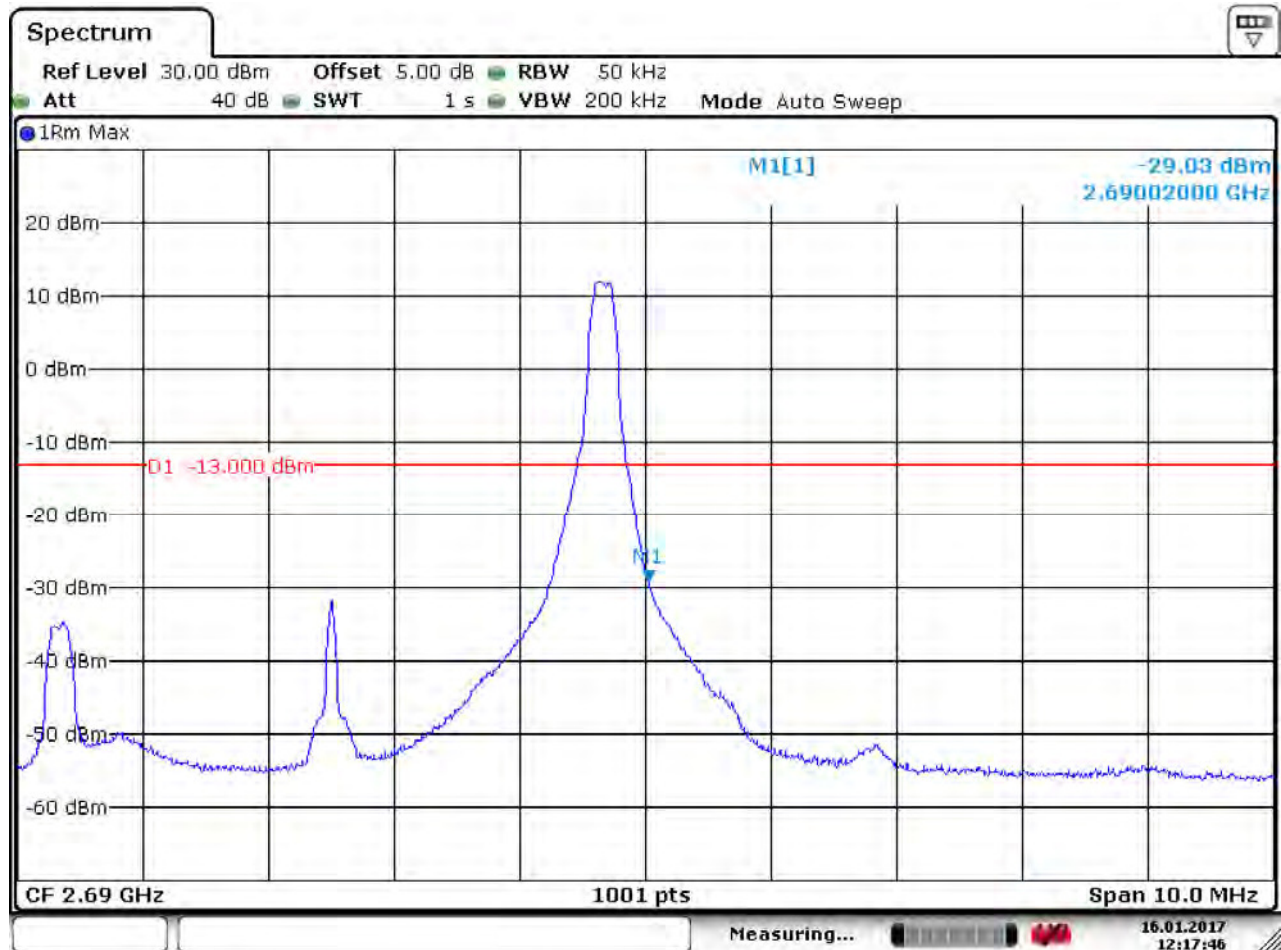


Date: 16.JAN.2017 12:21:11



5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 16.JAN.2017 12:17:47



5.1.1.2.2.2 Test RB=25RB



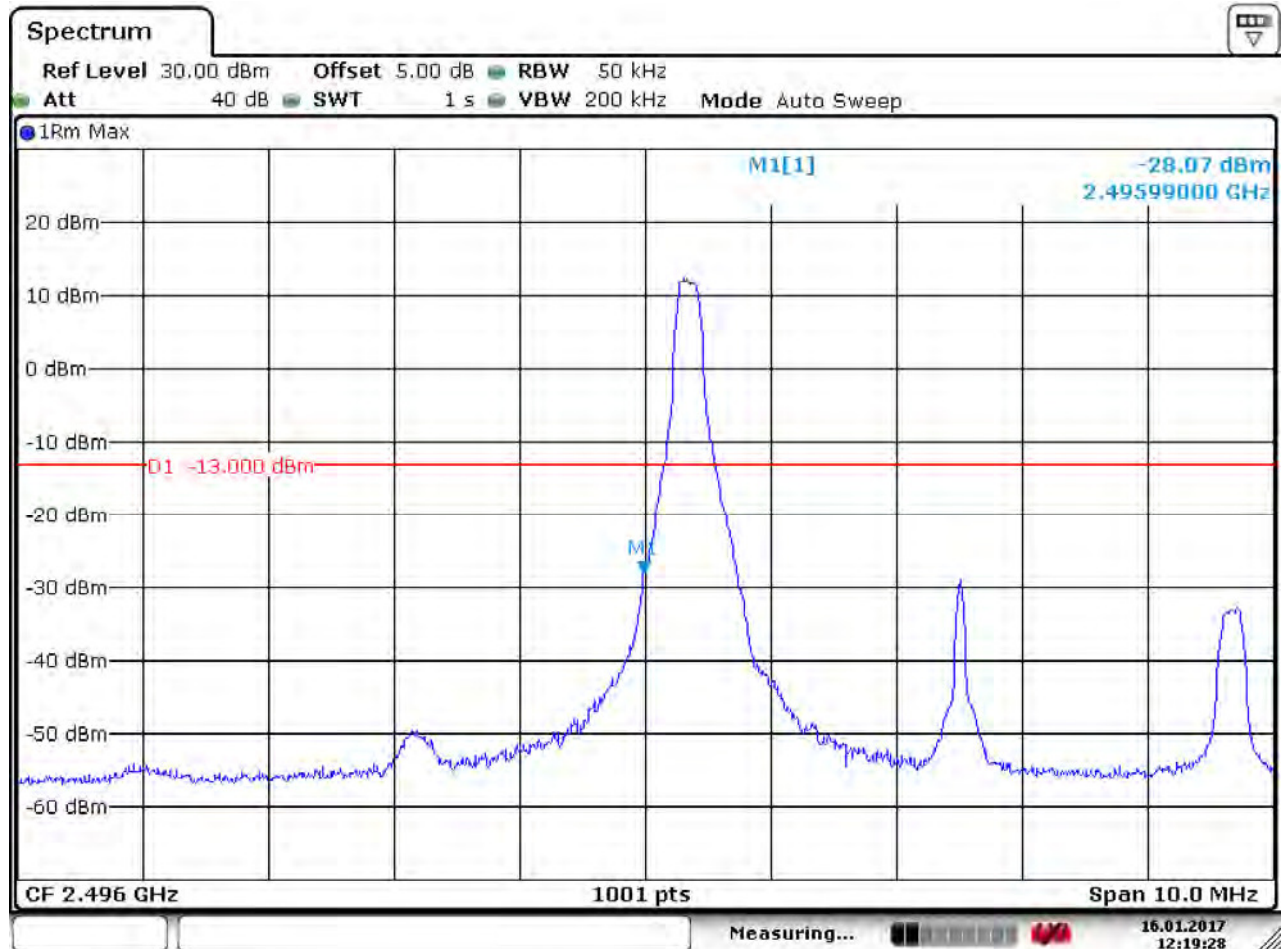
Date: 16.JAN.2017 12:07:41



5.1.1.3 Test Mode = LTE/TM3 5MHz

5.1.1.3.1 Test Channel = LCH

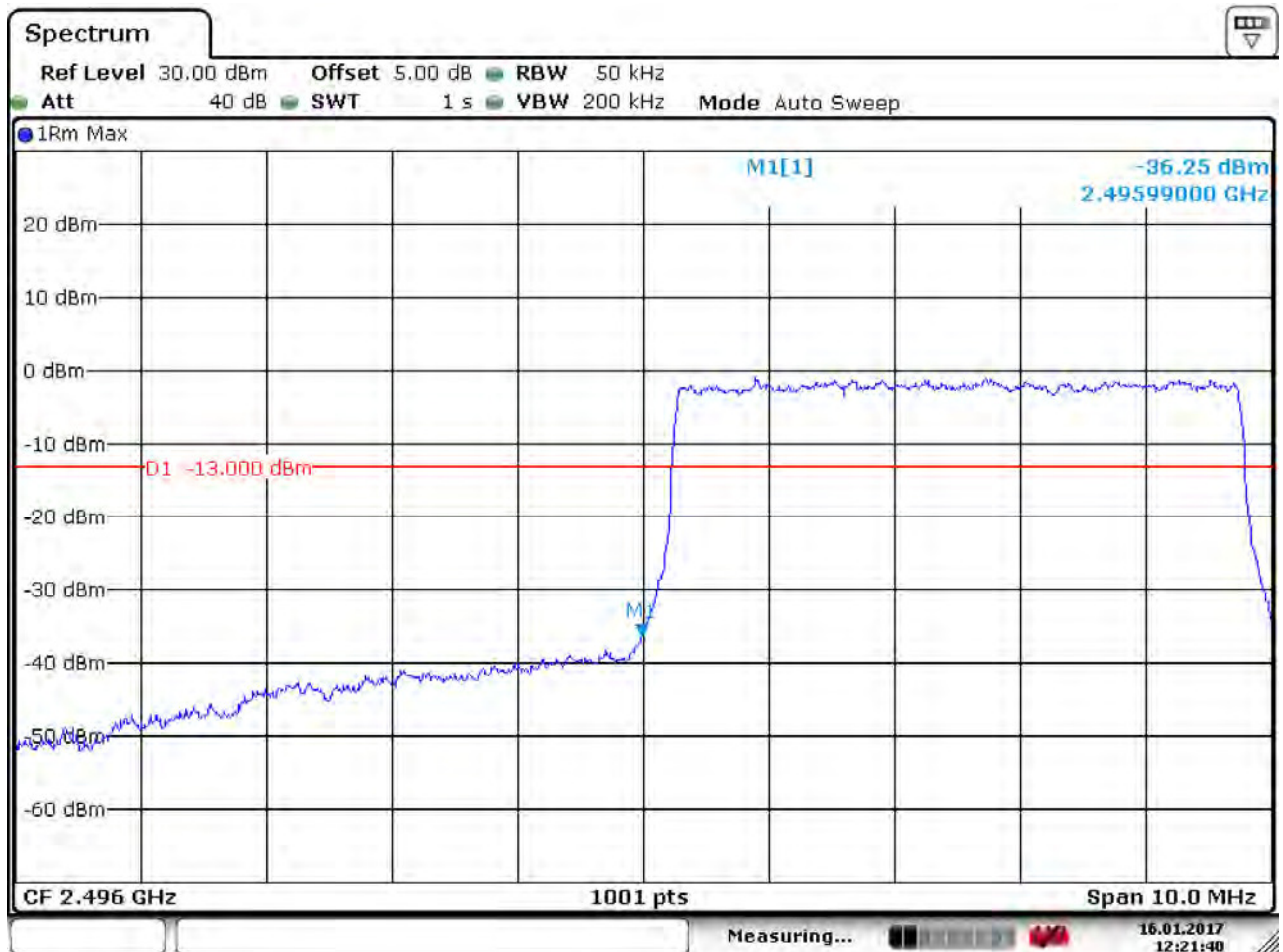
5.1.1.3.1.1 Test RB=1RB



Date: 16.JAN.2017 12:19:29



5.1.1.3.1.2 Test RB=25RB

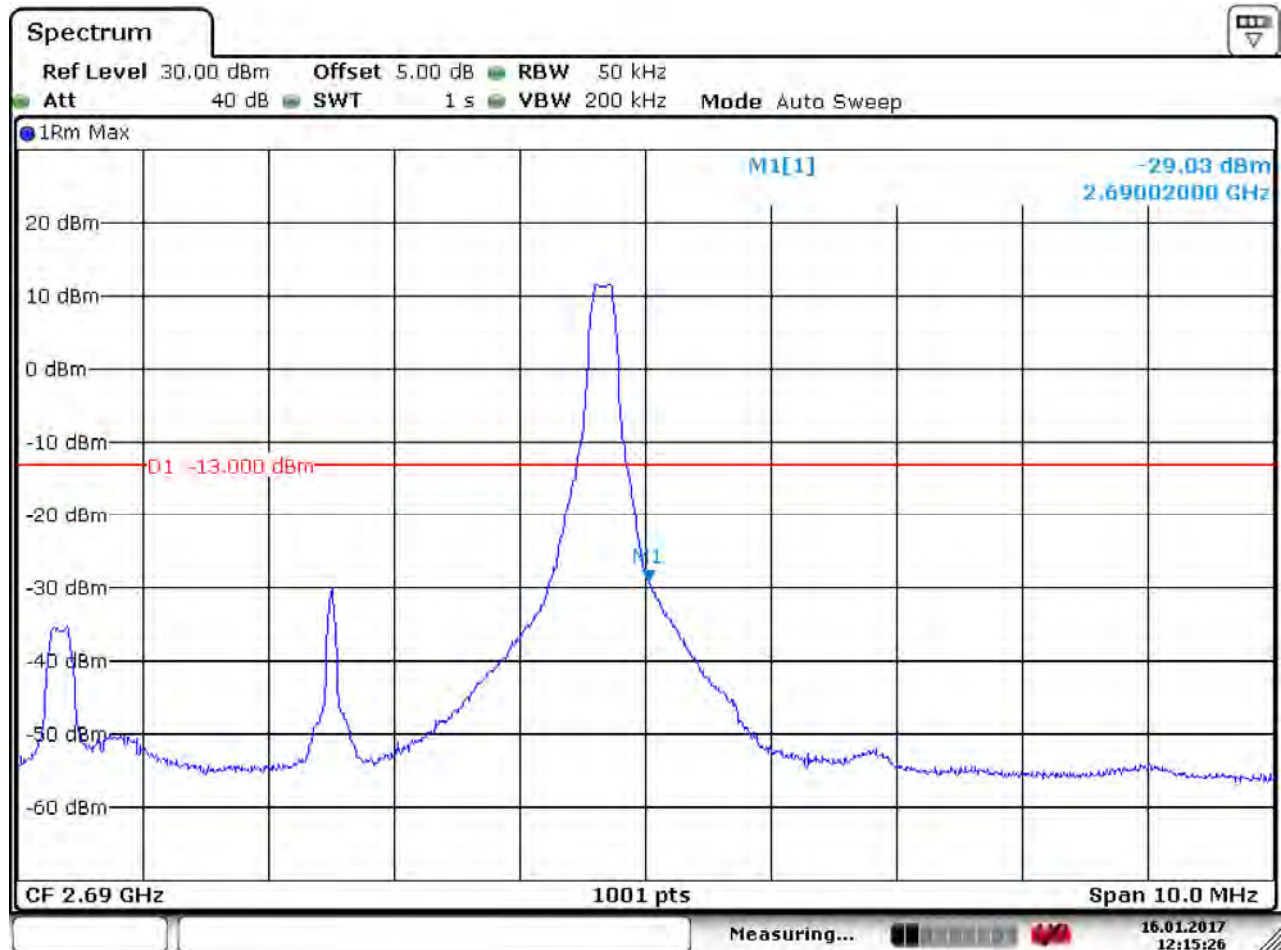


Date: 16.JAN.2017 12:21:40



5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 16.JAN.2017 12:15:26



5.1.1.3.2.2 Test RB=25RB

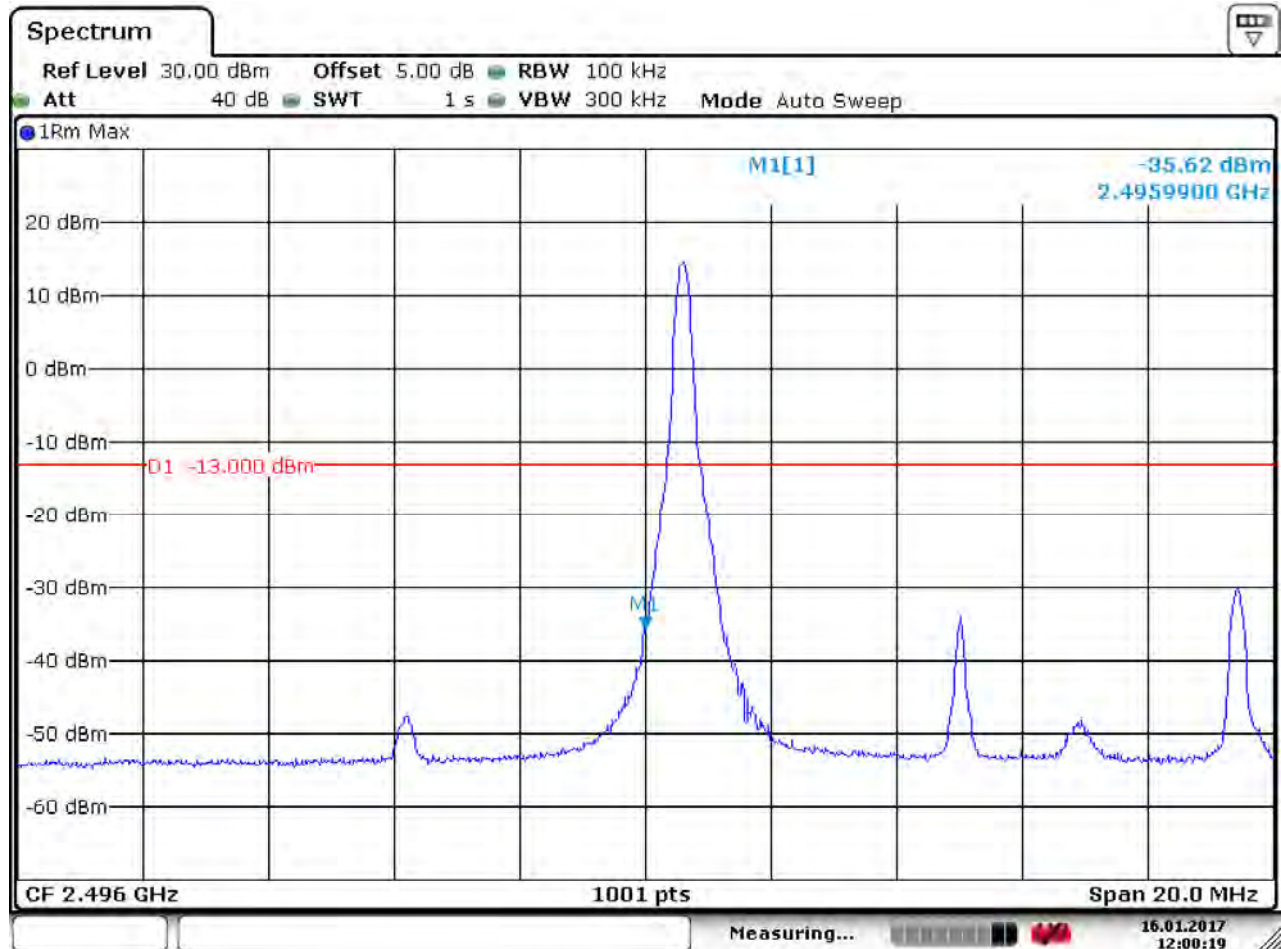


Date: 16.JAN.2017 12:09:37

5.1.1.4 Test Mode = LTE/TM1 10MHz

5.1.1.4.1 Test Channel = LCH

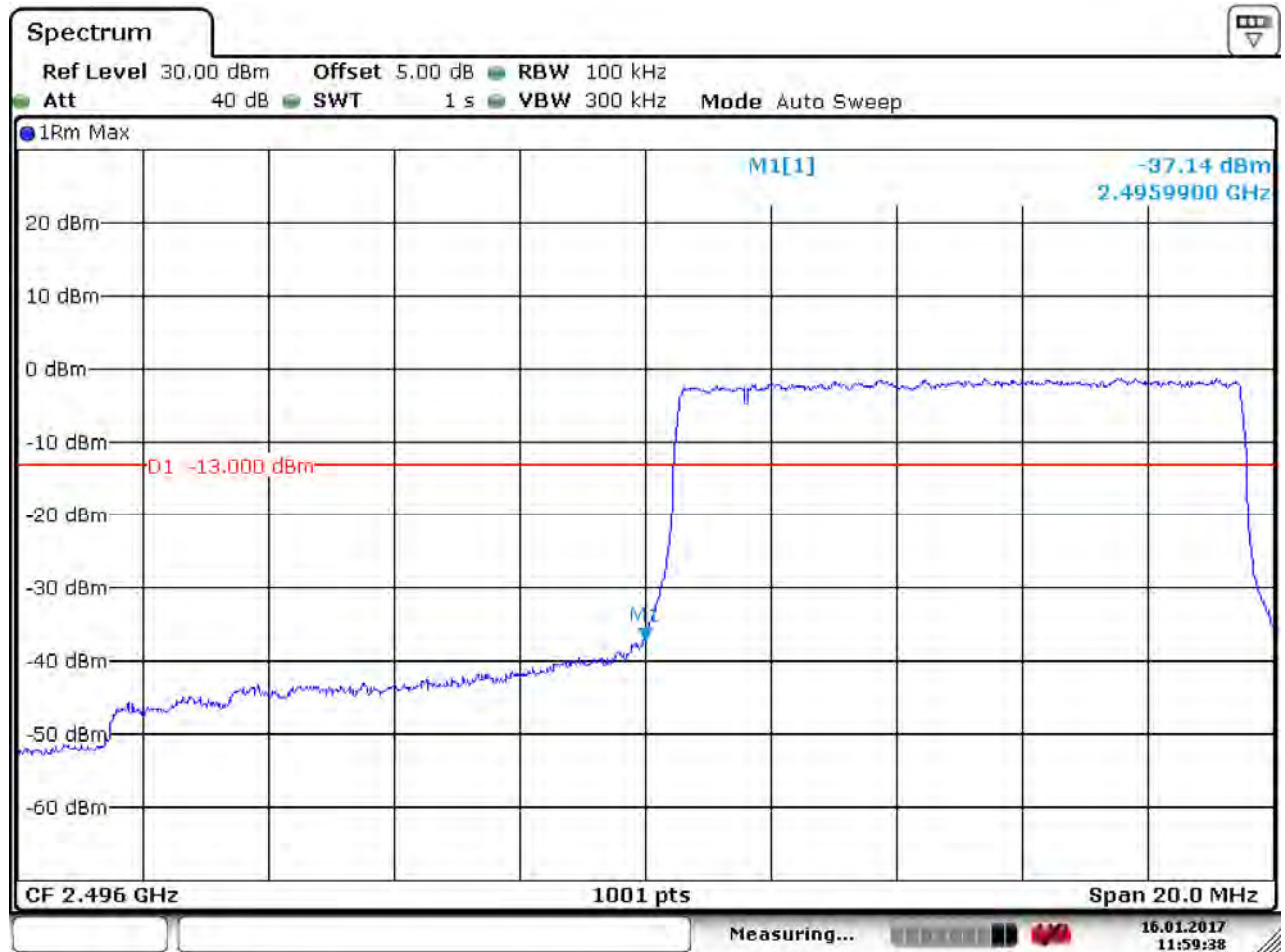
5.1.1.4.1.1 Test RB=1RB



Date: 16.JAN.2017 12:00:19



5.1.1.4.1.2 Test RB=50RB

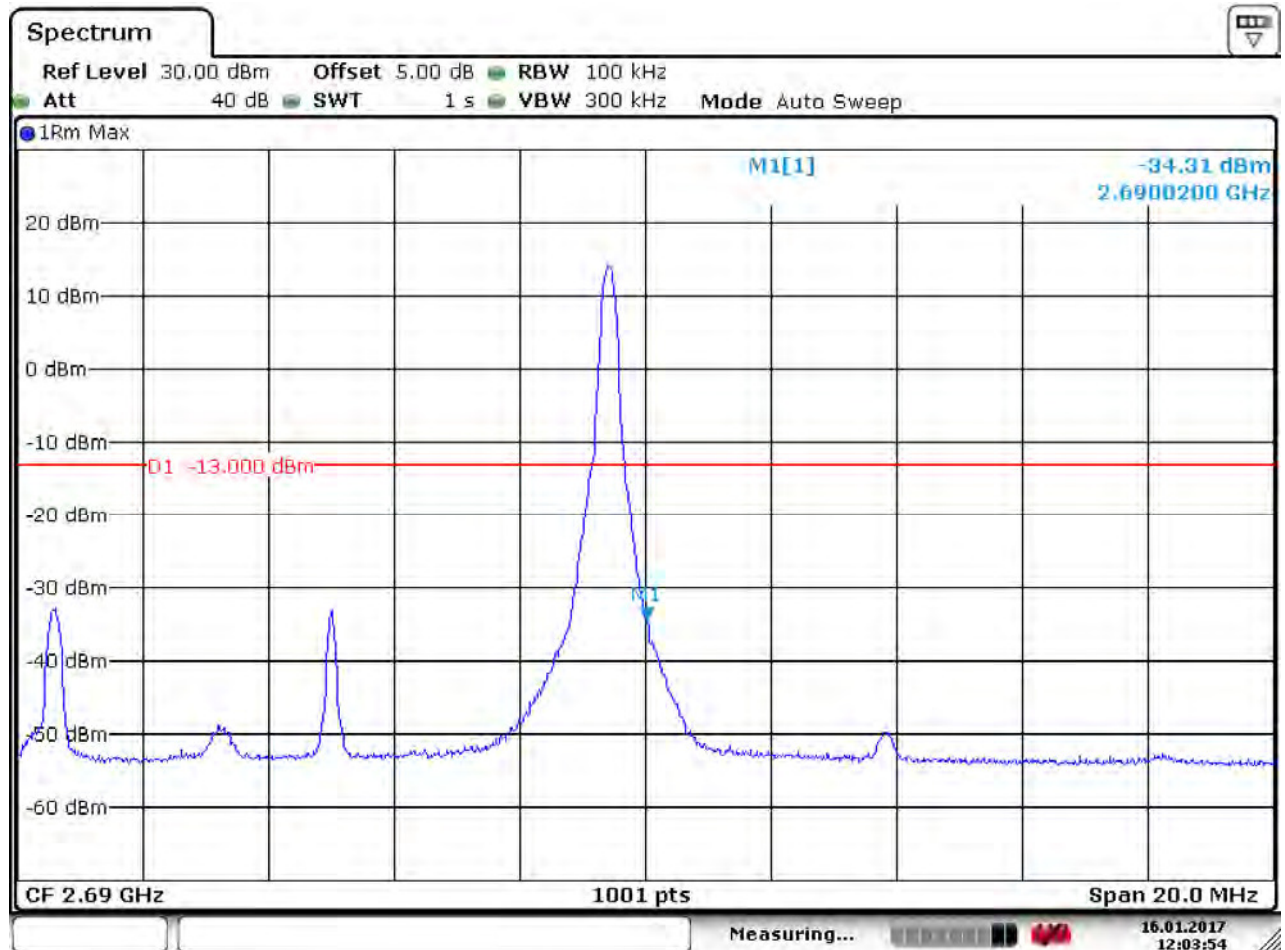


Date: 16.JAN.2017 11:59:39



5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 16.JAN.2017 12:03:54



5.1.1.4.2.2 Test RB=50RB

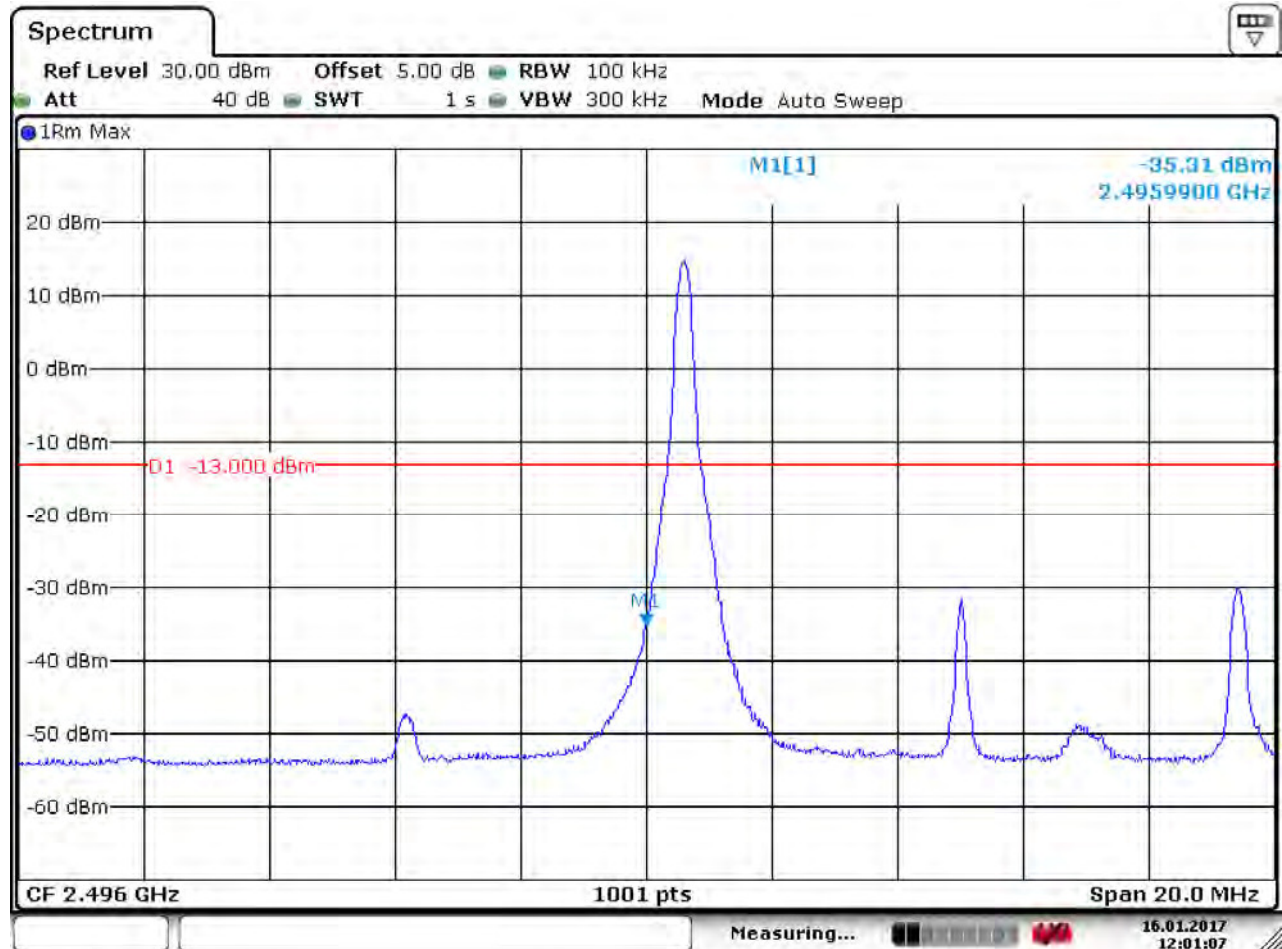


Date: 16.JAN.2017 12:04:32

5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH

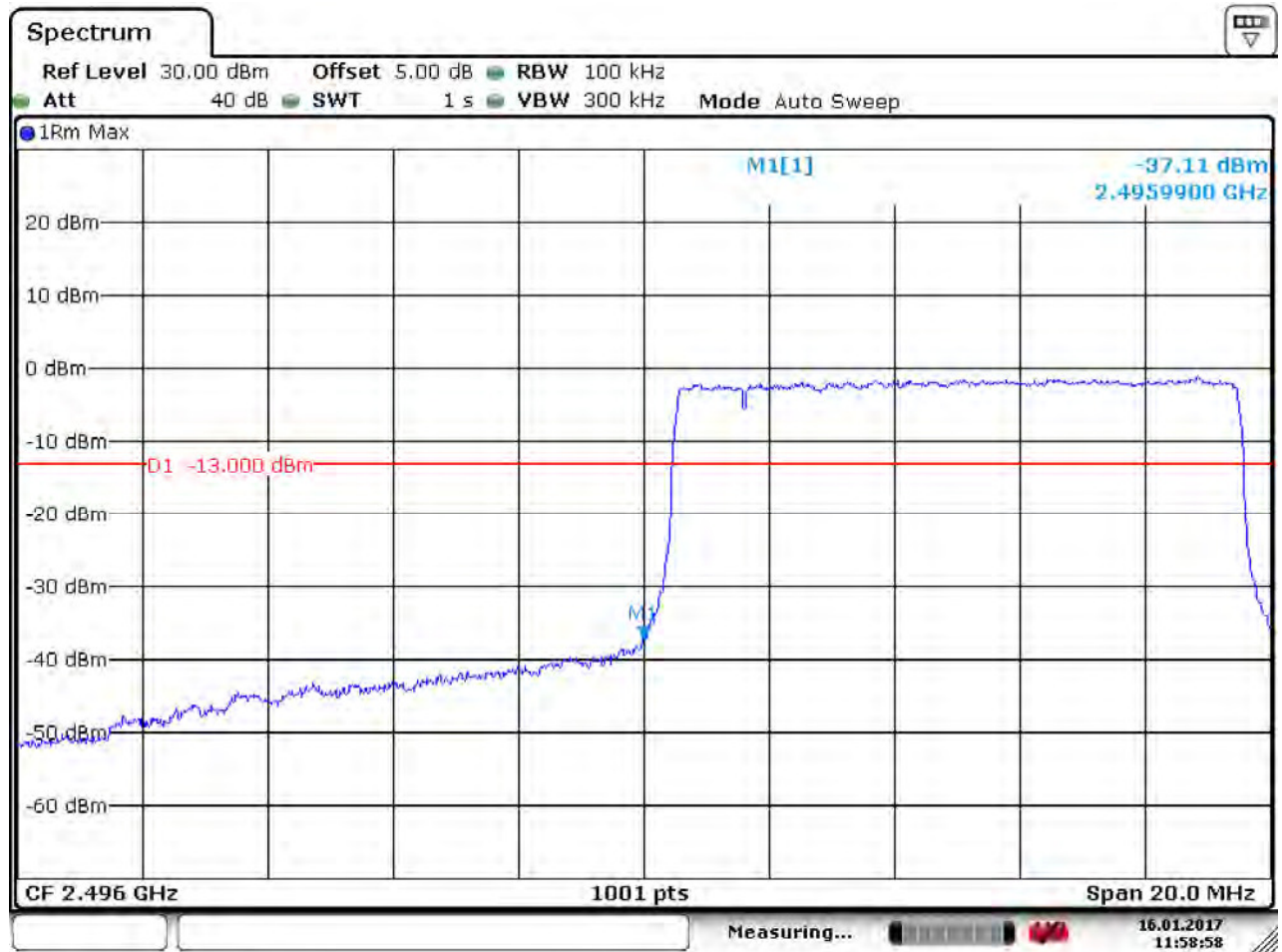
5.1.1.5.1.1 Test RB=1RB



Date: 16.JAN.2017 12:01:07



5.1.1.5.1.2 Test RB=50RB

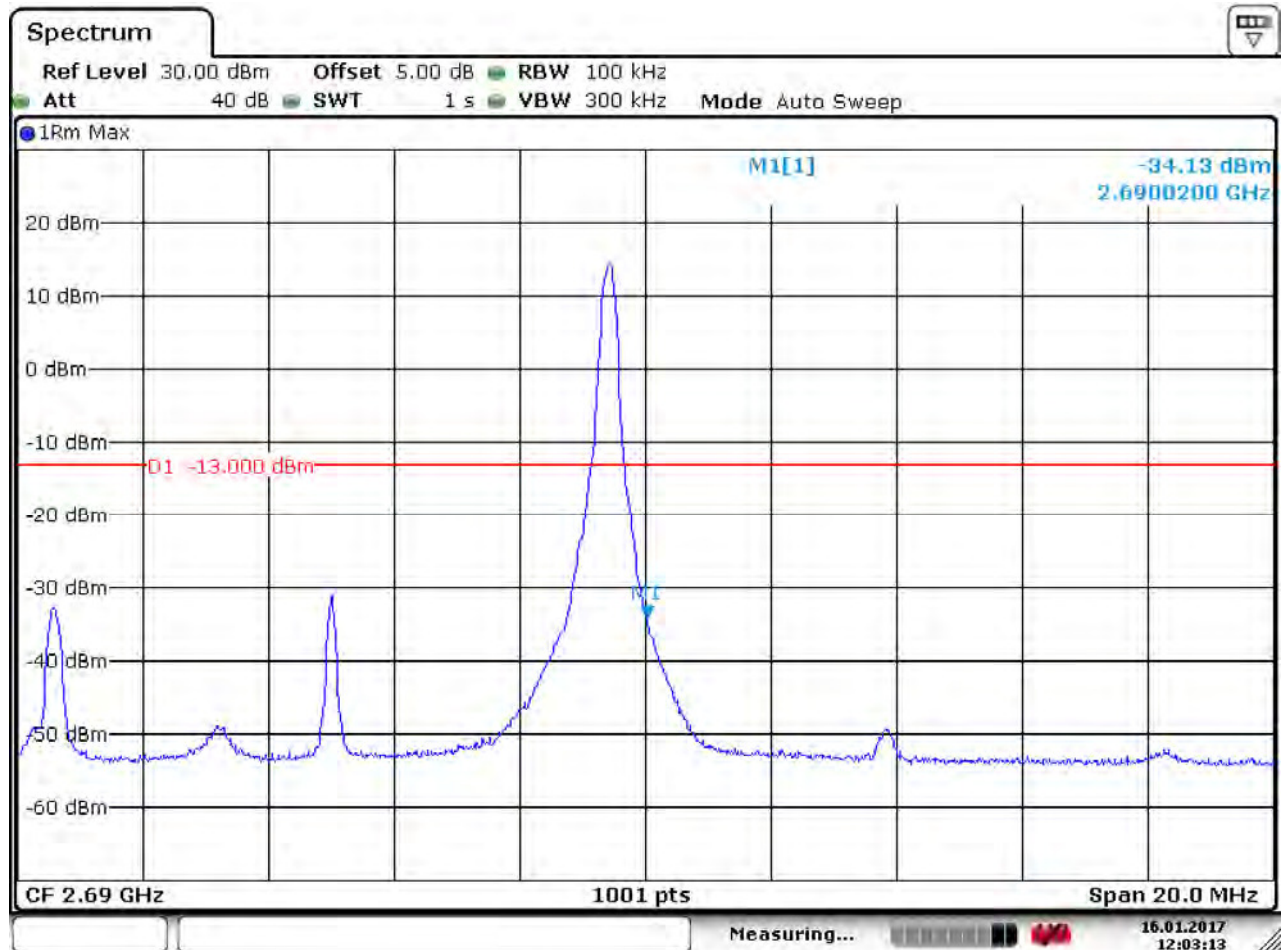


Date: 16.JAN.2017 11:58:59



5.1.1.5.2 Test Channel = HCH

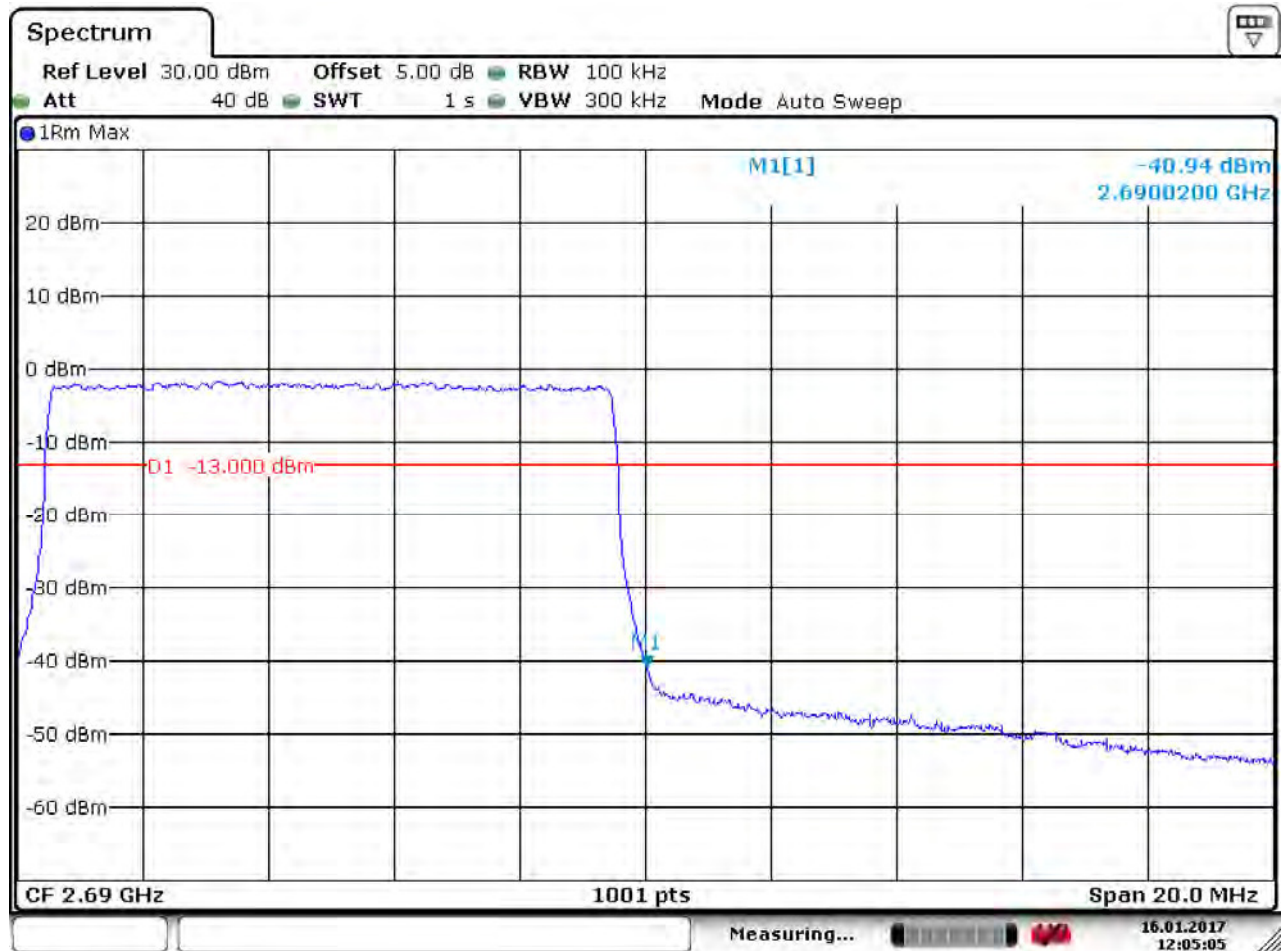
5.1.1.5.2.1 Test RB=1RB



Date: 16.JAN.2017 12:03:14



5.1.1.5.3 Test RB=50RB



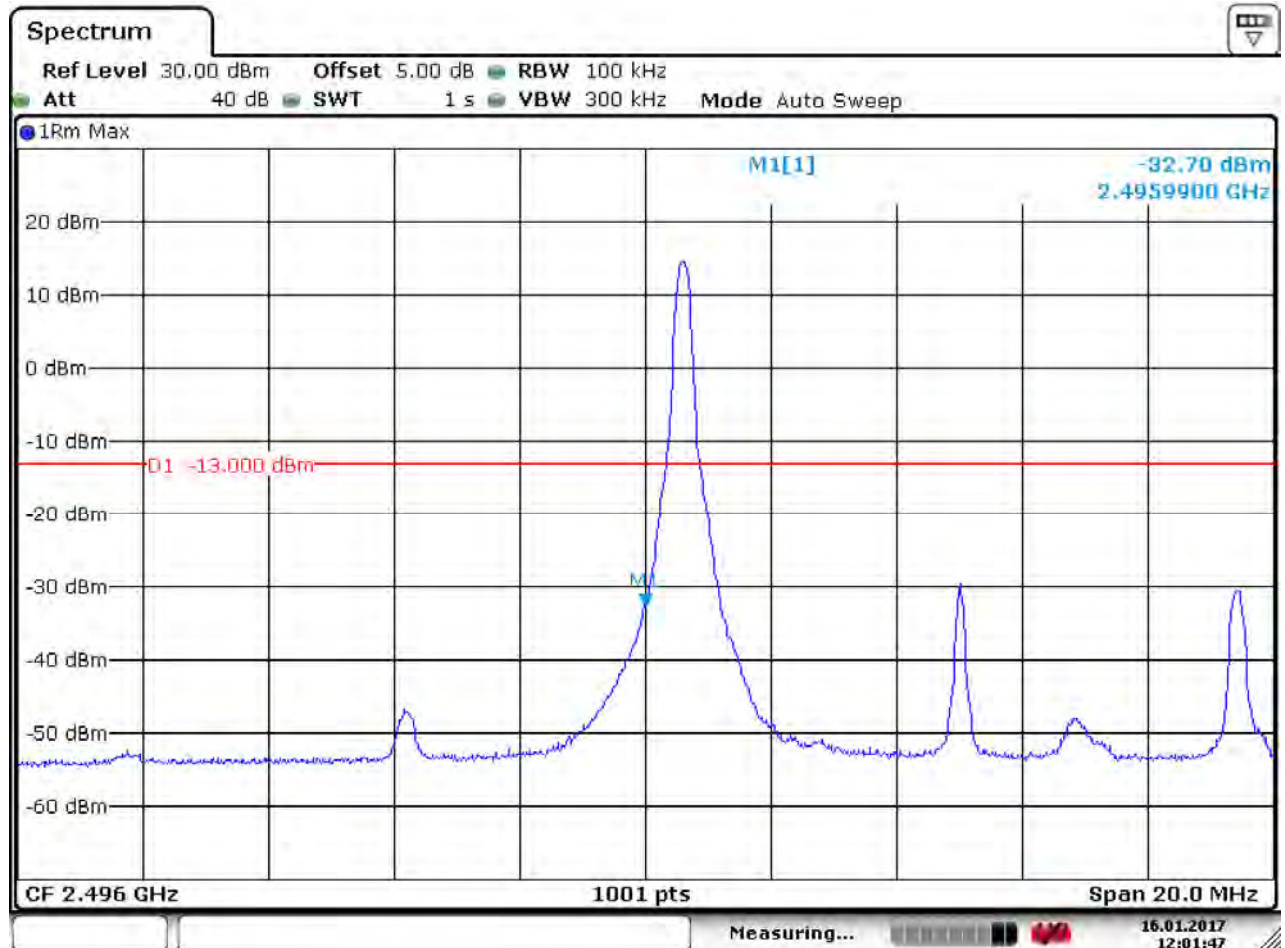
Date: 16.JAN.2017 12:05:05



5.1.1.6 Test Mode = LTE/TM3 10MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.2 Test RB=1RB



Date: 16.JAN.2017 12:01:48



5.1.1.6.2.1 Test RB=50RB

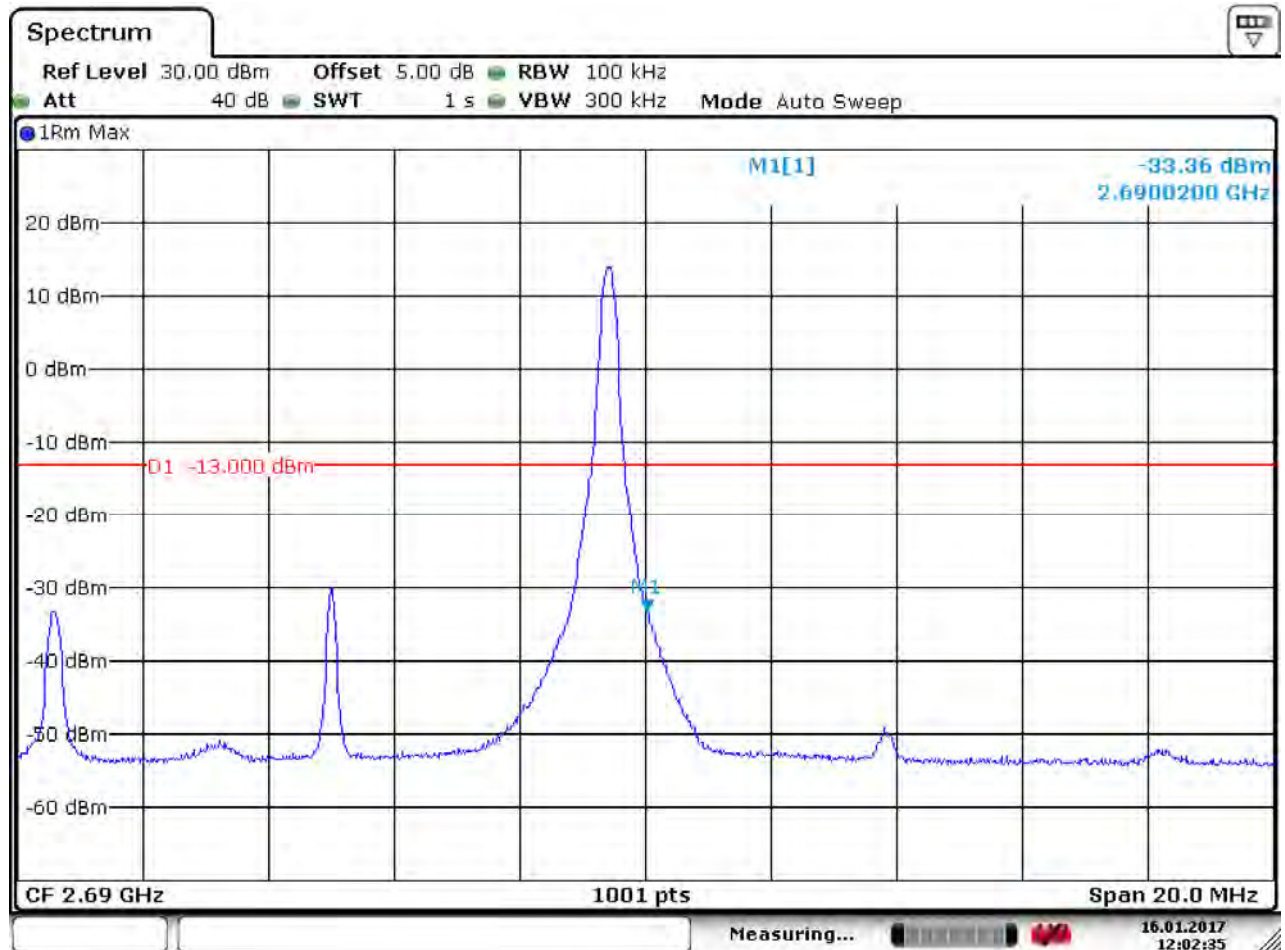


Date: 16.JAN.2017 11:58:19



5.1.1.6.3 Test Channel = HCH

5.1.1.6.3.1 Test RB=1RB



Date: 16.JAN.2017 12:02:35



5.1.1.6.3.2 Test RB=50RB



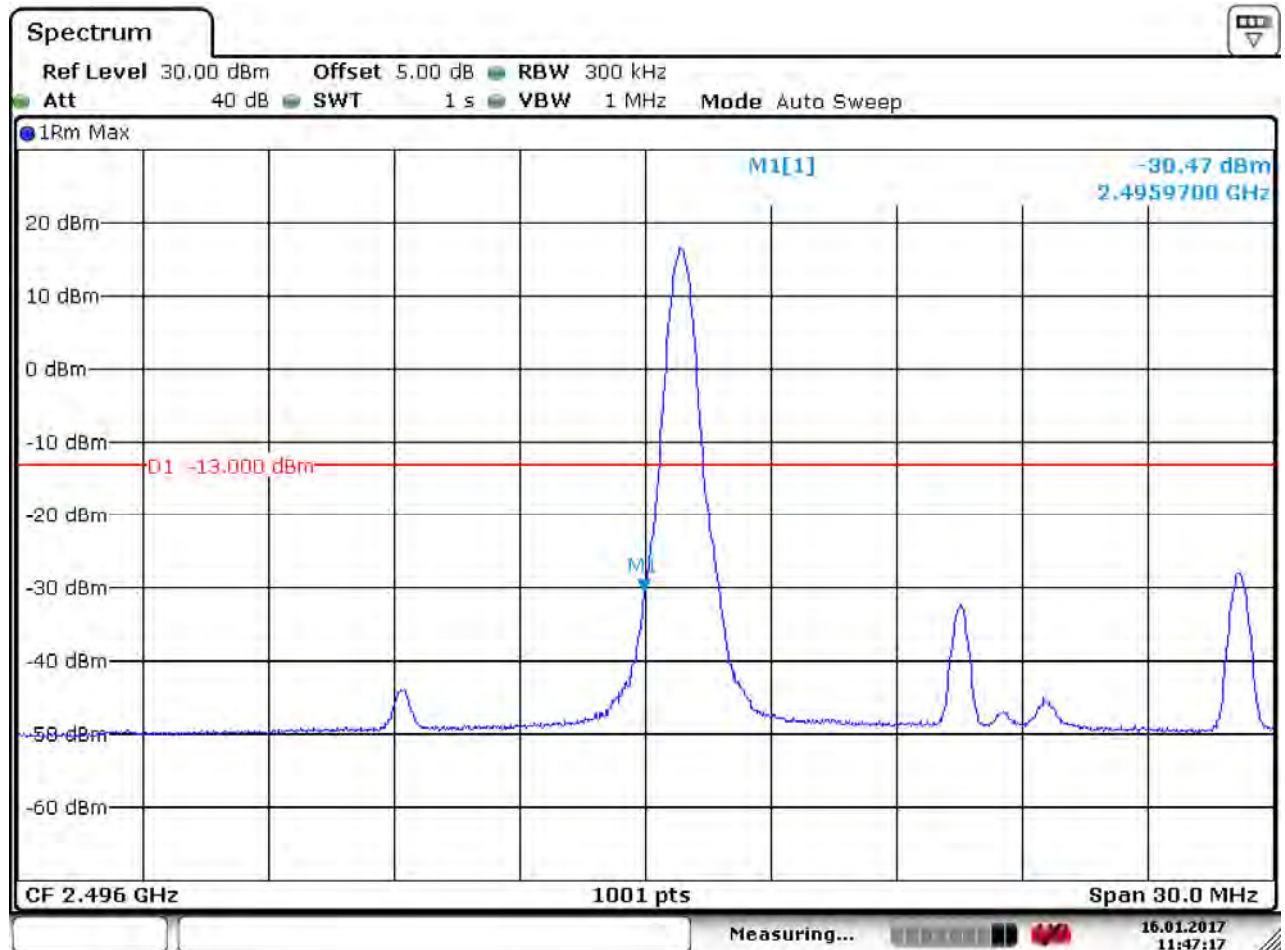
Date: 16.JAN.2017 12:05:35



5.1.1.7 Test Mode = LTE/TM1 15MHz

5.1.1.7.1 Test Channel = LCH

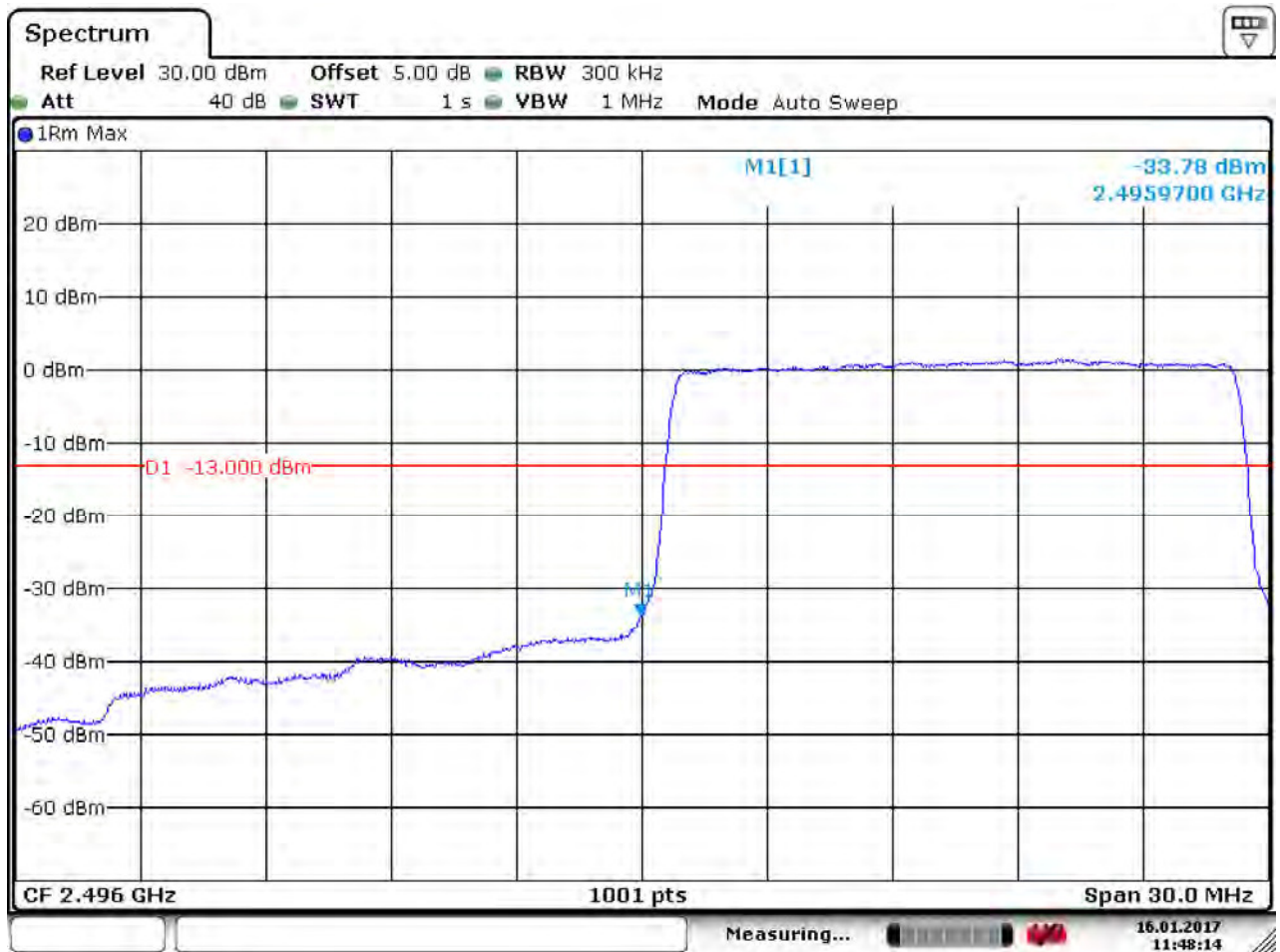
5.1.1.7.1.1 Test RB=1RB



Date: 16.JAN.2017 11:47:18



5.1.1.7.1.2 Test RB=75RB

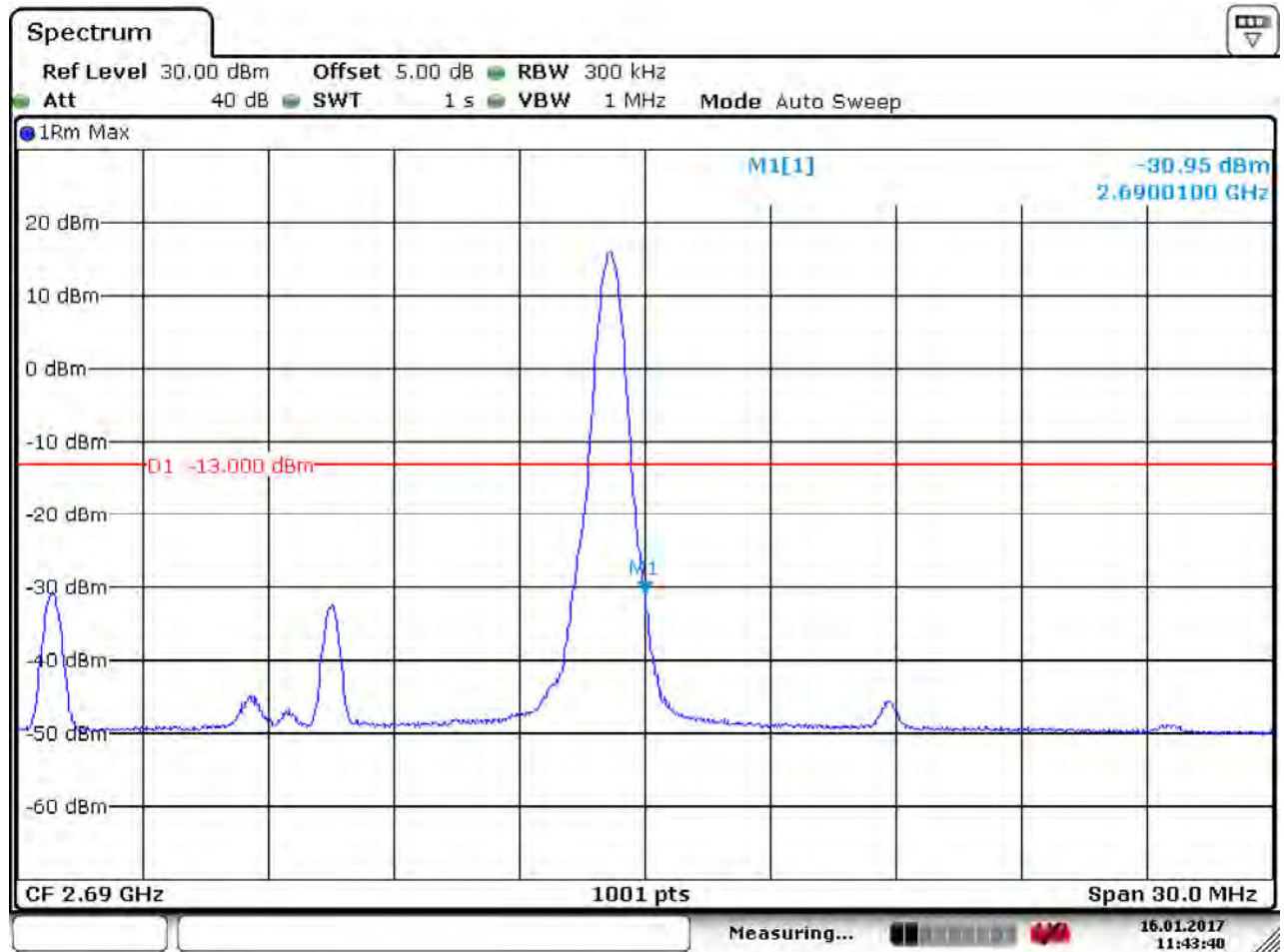


Date: 16.JAN.2017 11:48:15



5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 16.JAN.2017 11:43:41



5.1.1.7.2.2 Test RB=75RB



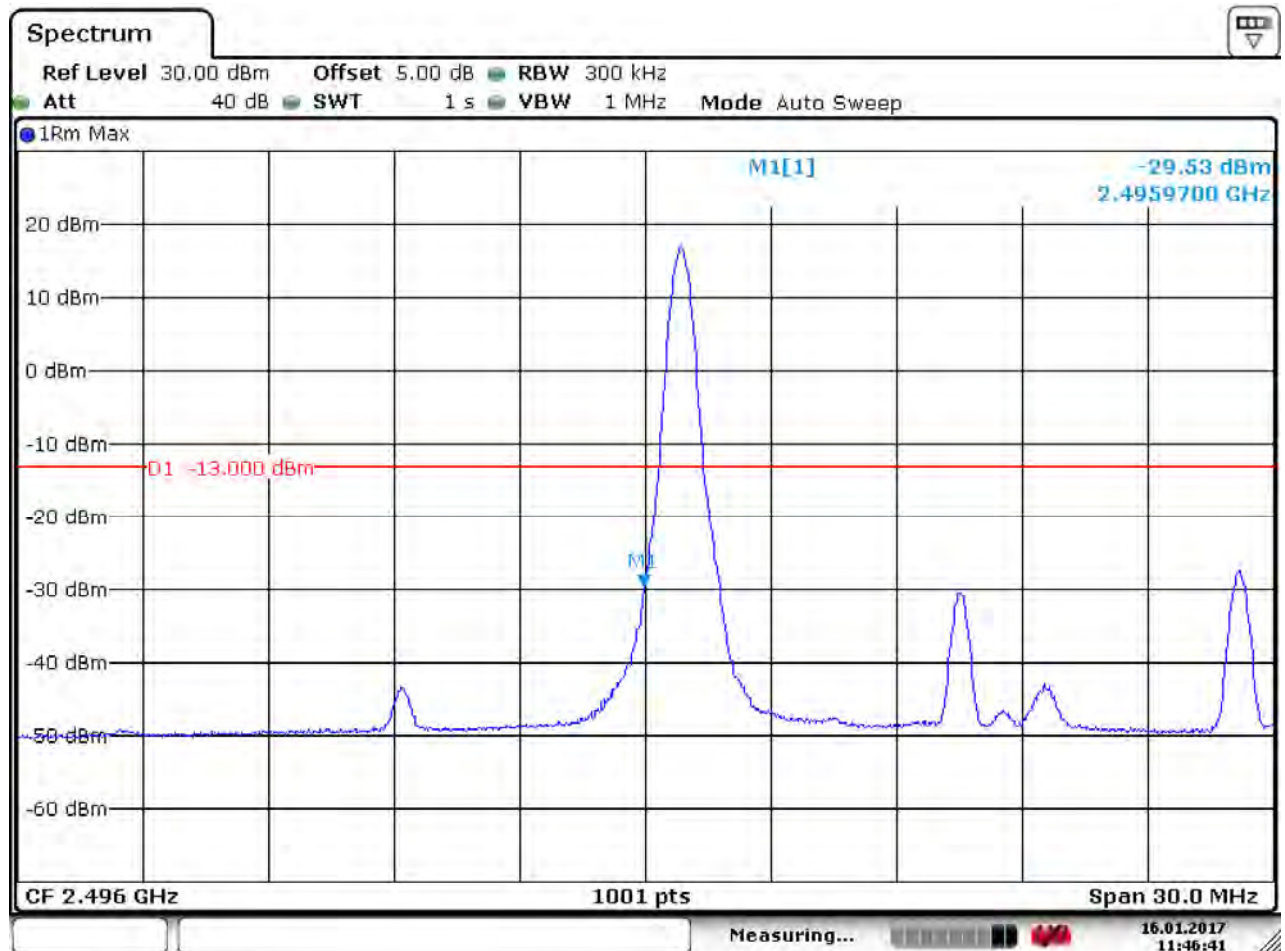
Date: 16.JAN.2017 11:43:08



5.1.1.8 Test Mode = LTE/TM2 15MHz

5.1.1.8.1 Test Channel = LCH

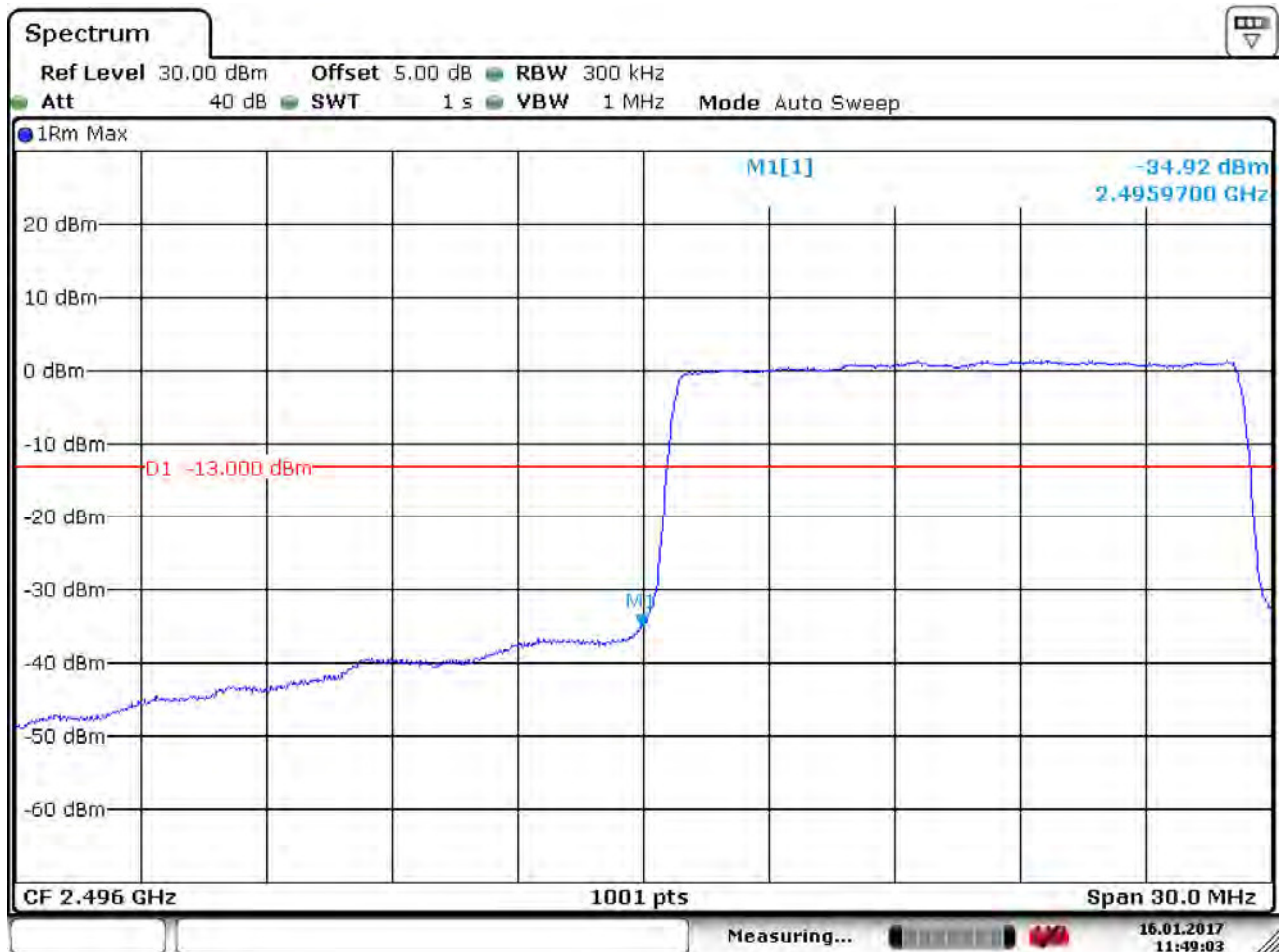
5.1.1.8.1.1 Test RB=1RB



Date: 16.JAN.2017 11:46:41



5.1.1.8.1.2 Test RB=75RB

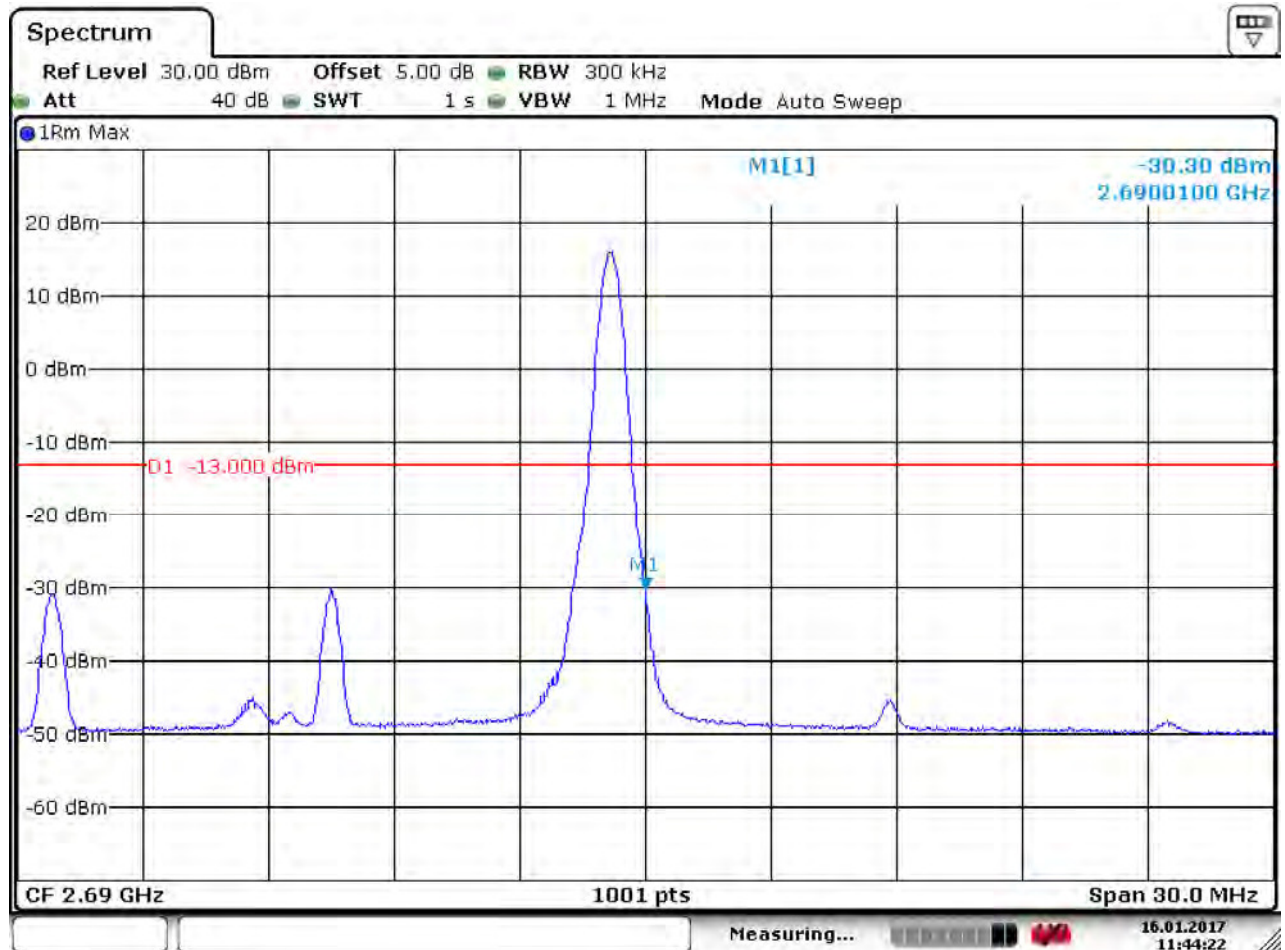


Date: 16.JAN.2017 11:49:03



5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 16.JAN.2017 11:44:22



5.1.1.8.2.2 Test RB=75RB



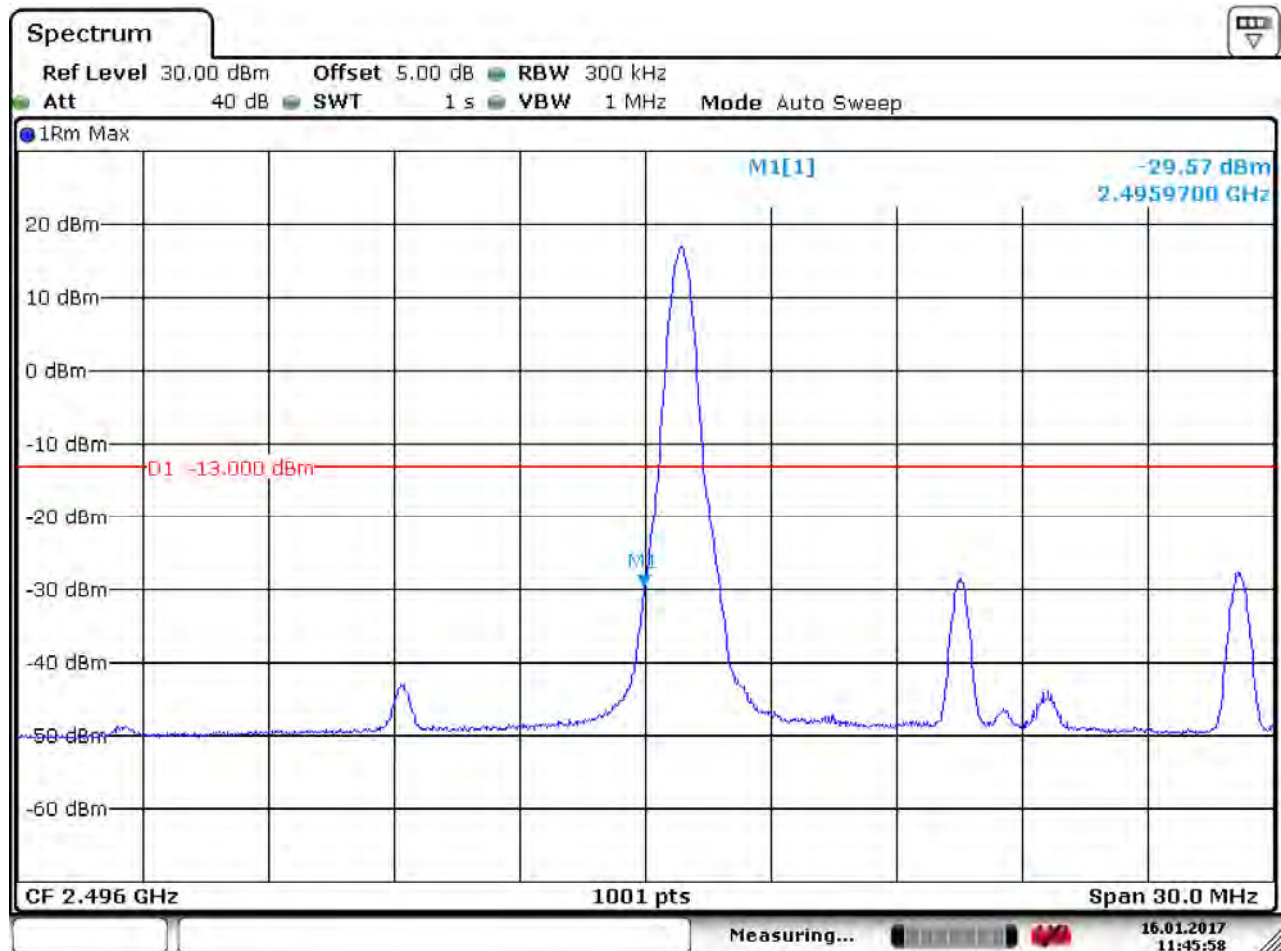
Date: 16.JAN.2017 11:42:40



5.1.1.9 Test Mode = LTE/TM3 15MHz

5.1.1.9.1 Test Channel = LCH

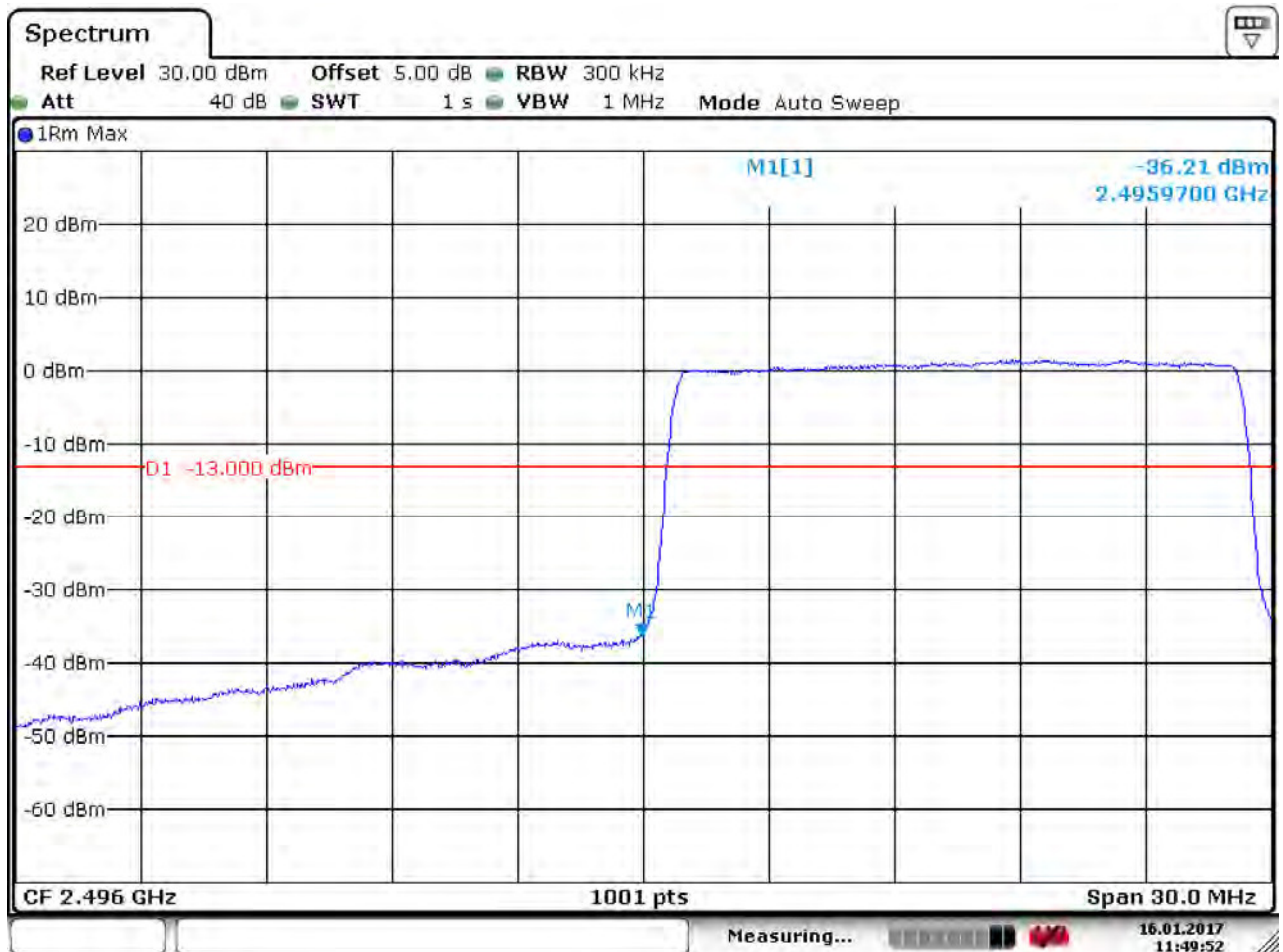
5.1.1.9.1.1 Test RB=1RB



Date: 16.JAN.2017 11:45:58



5.1.1.9.1.2 Test RB=75RB

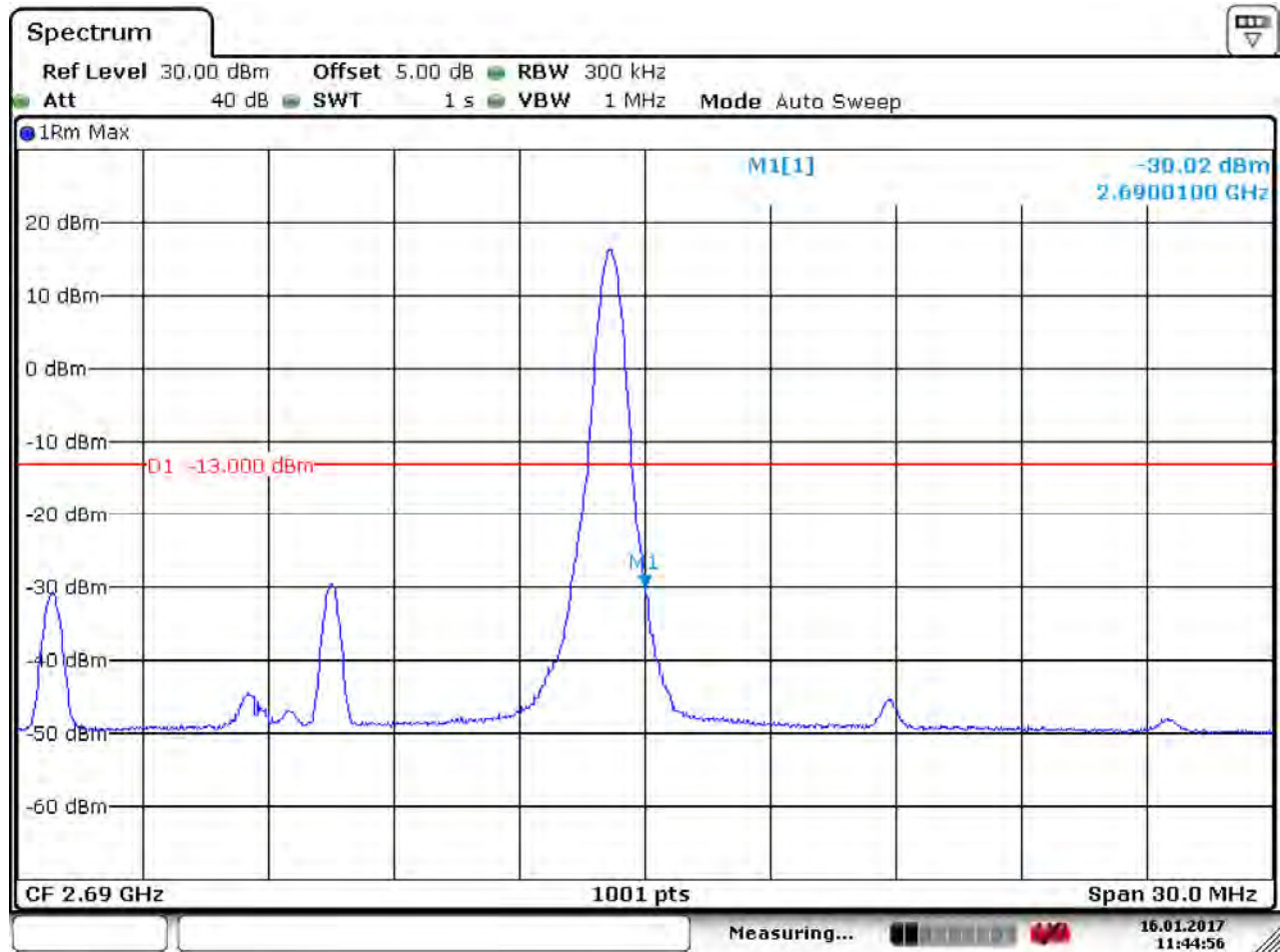


Date: 16.JAN.2017 11:49:53



5.1.1.9.2 Test Channel = HCH

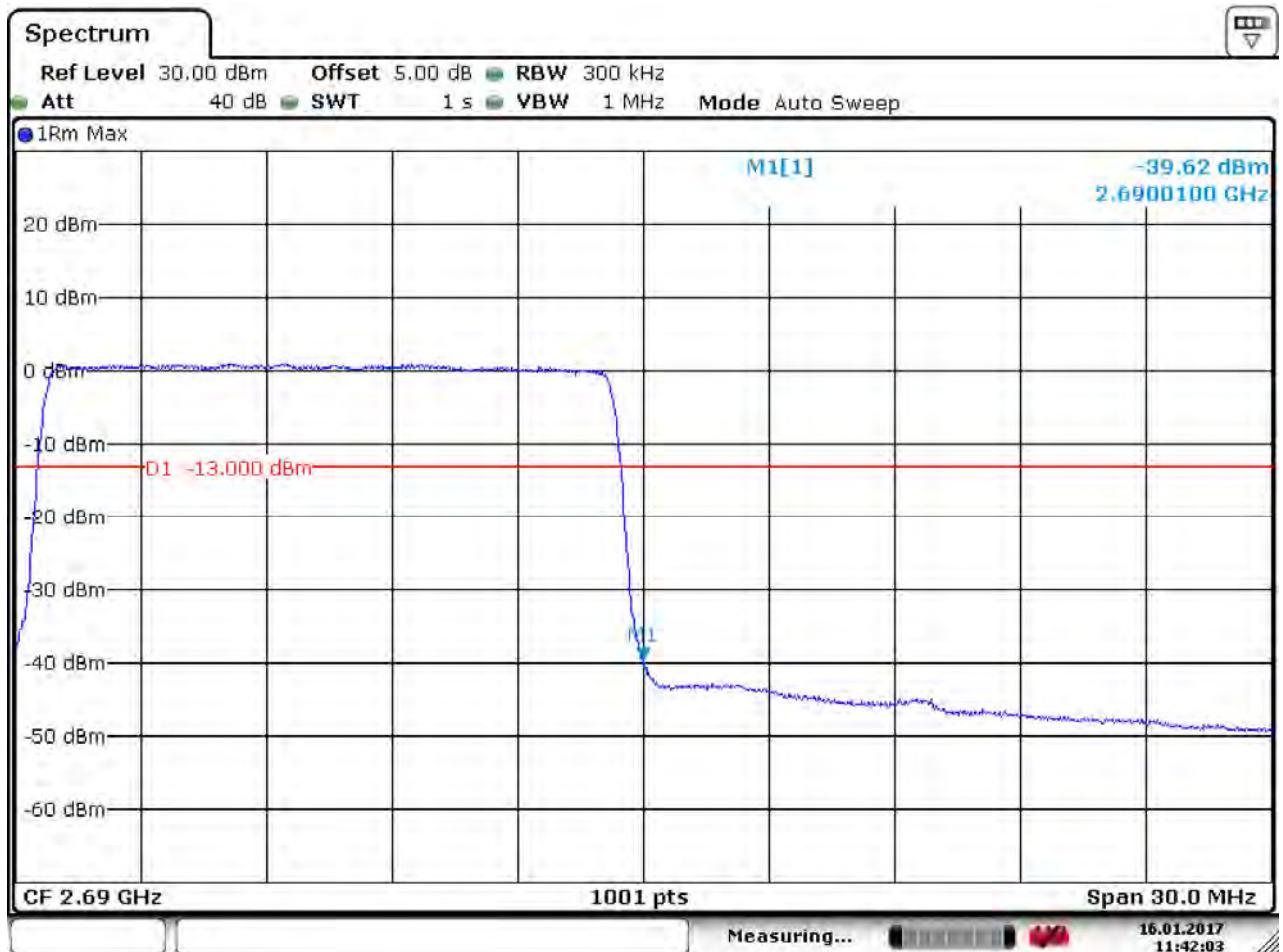
5.1.1.9.2.1 Test RB=1RB



Date: 16.JAN.2017 11:44:57



5.1.1.9.2.2 Test RB=75RB



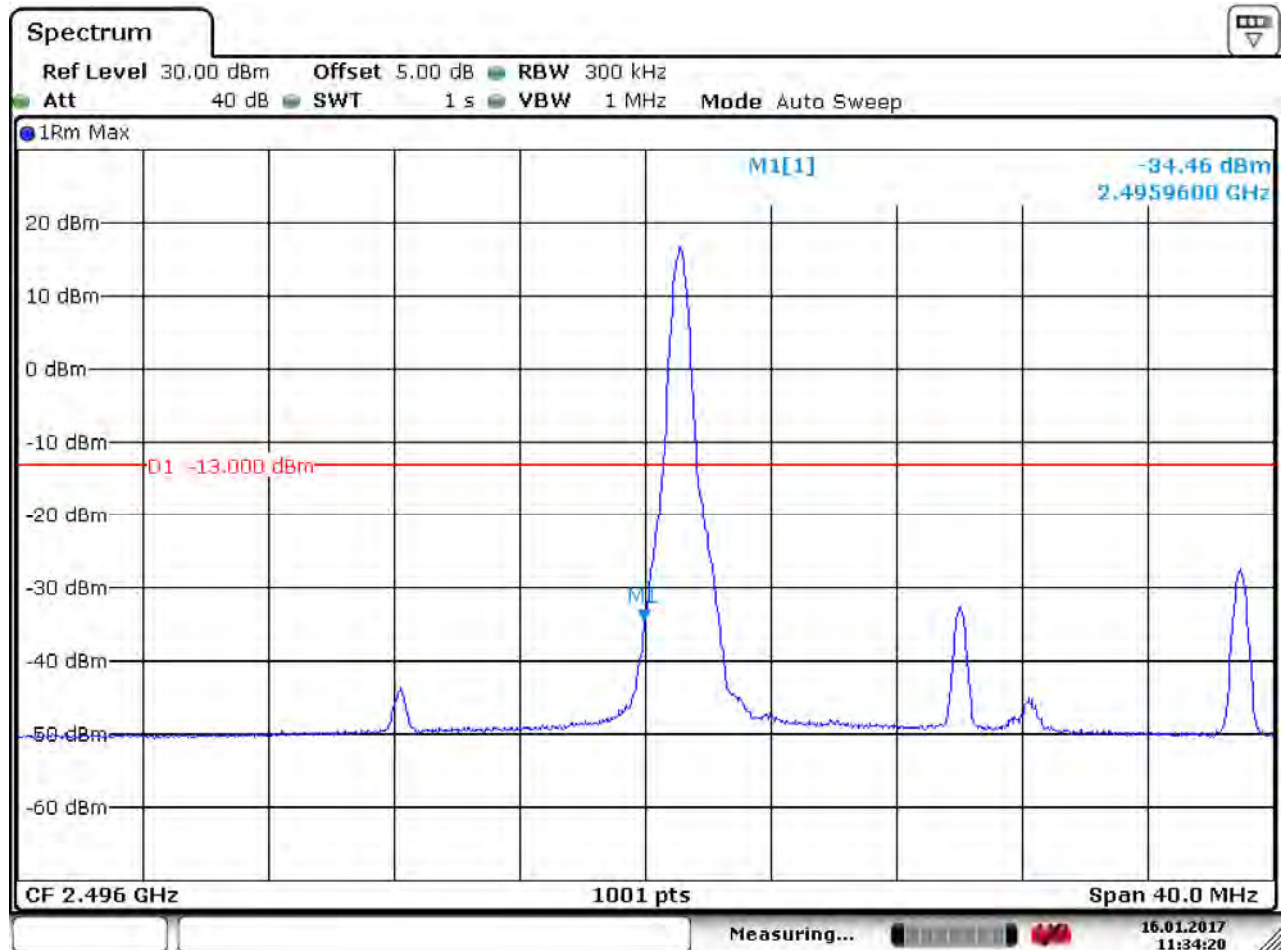
Date: 16.JAN.2017 11:42:03



5.1.1.10 Test Mode = LTE/TM1 20MHz

5.1.1.10.1 Test Channel = LCH

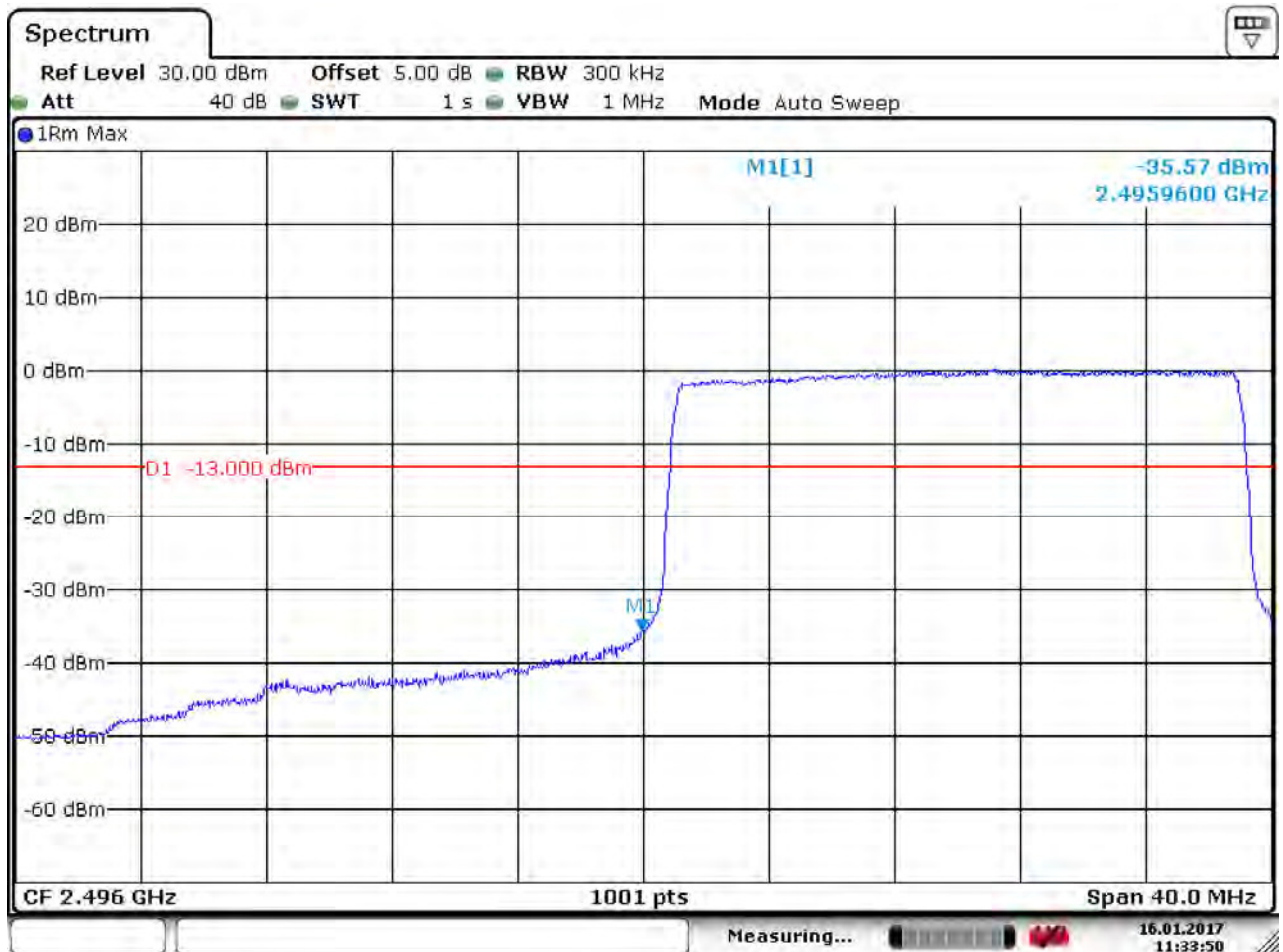
5.1.1.10.1.1 Test RB=1RB



Date: 16.JAN.2017 11:34:21



5.1.1.10.1.2 Test RB=100RB

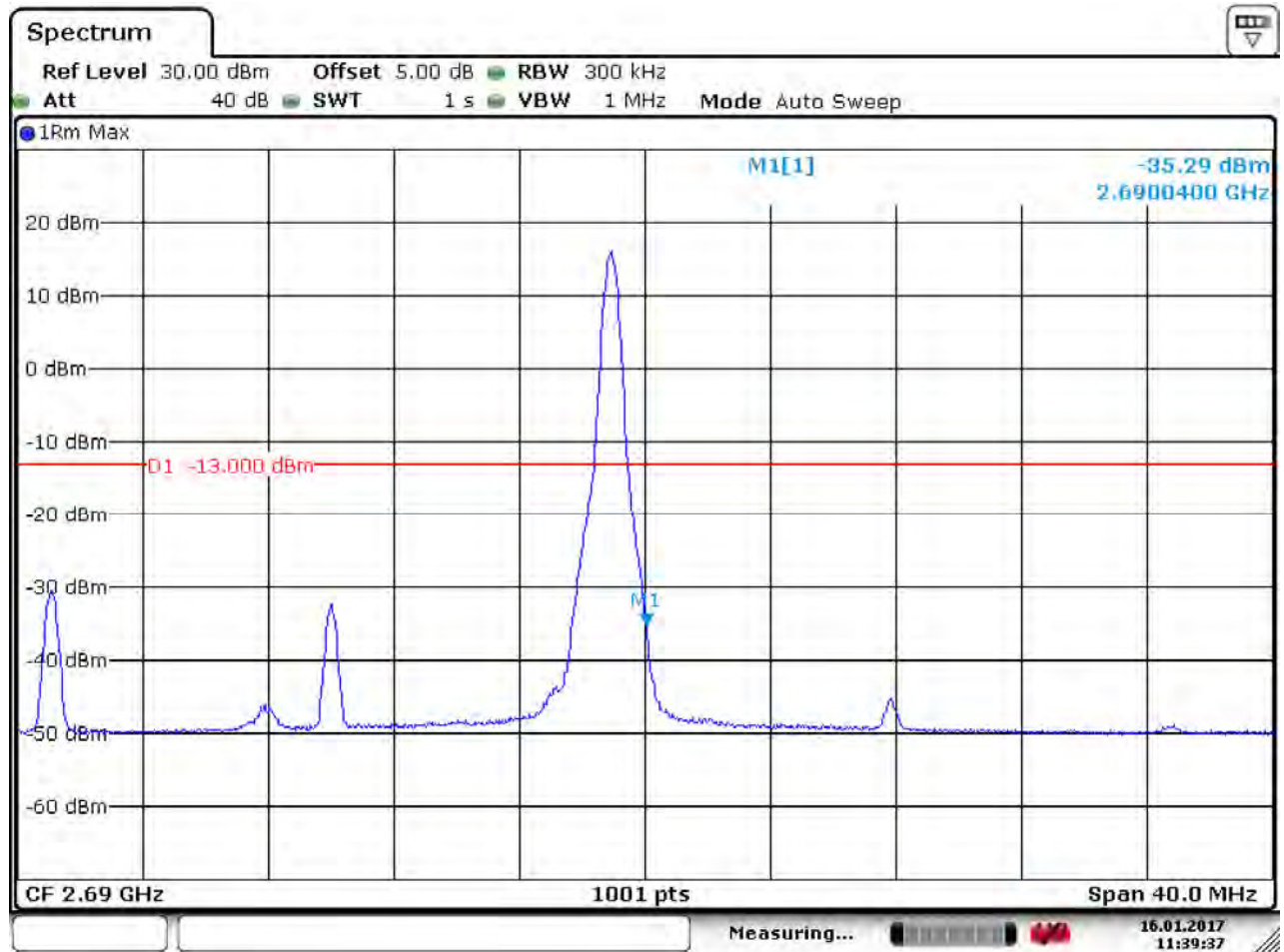


Date: 16.JAN.2017 11:33:51



5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 16.JAN.2017 11:39:37



5.1.1.10.2.2 Test RB=100RB

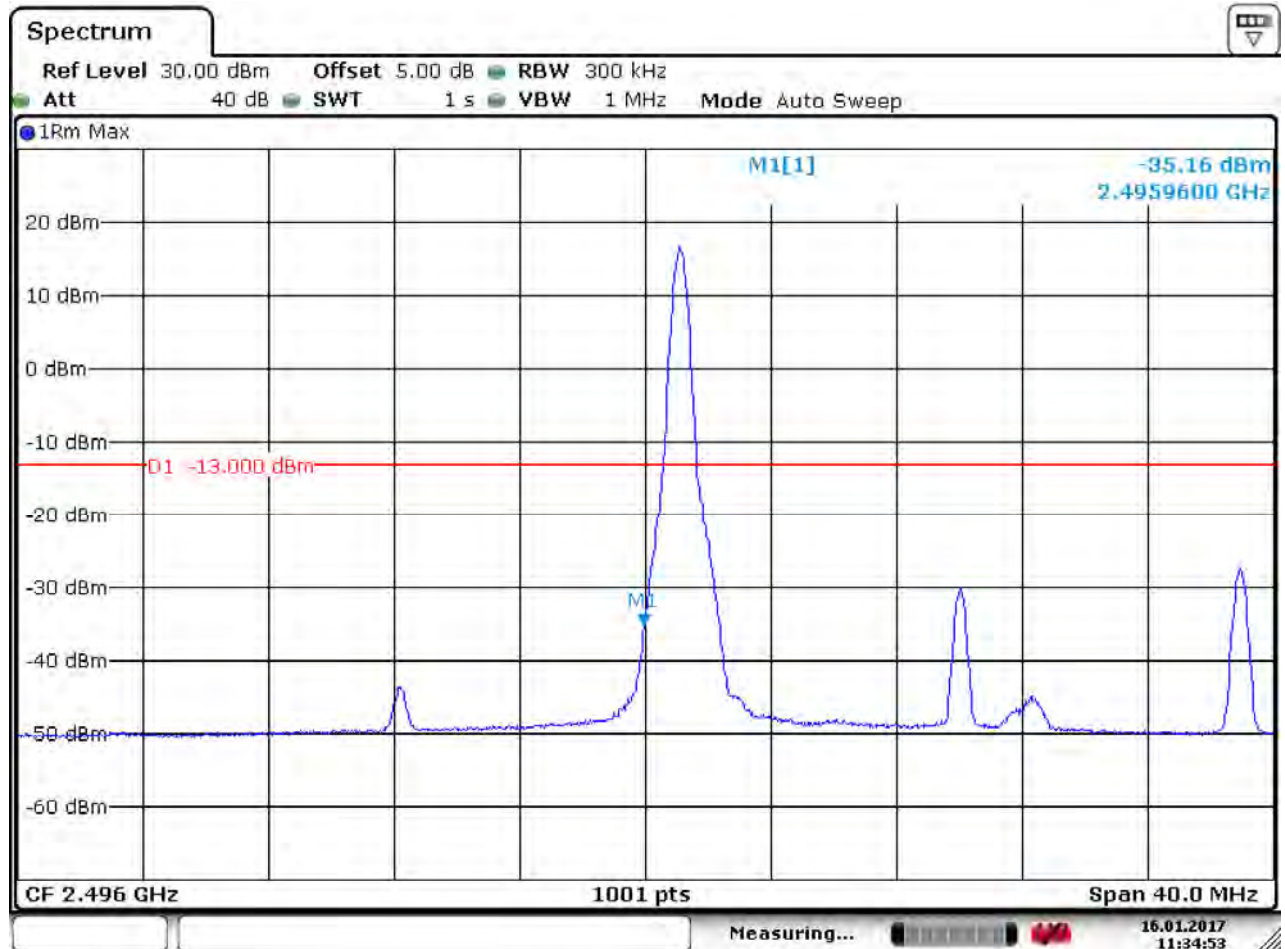


Date: 16.JAN.2017 11:40:12

5.1.1.11 Test Mode = LTE/TM2 20MHz

5.1.1.11.1 Test Channel = LCH

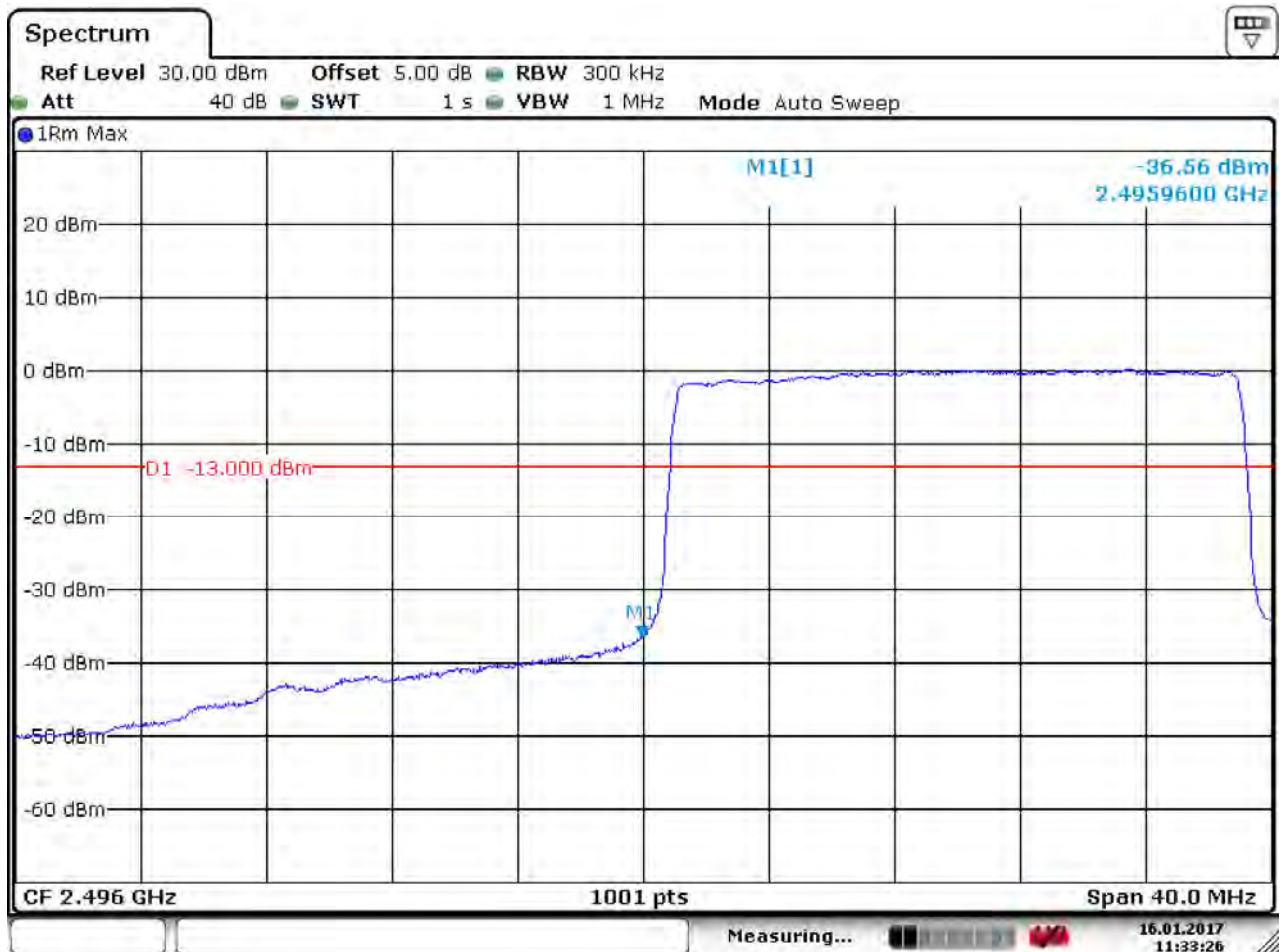
5.1.1.11.1.1 Test RB=1RB



Date: 16.JAN.2017 11:34:54



5.1.1.11.1.2 Test RB=100RB

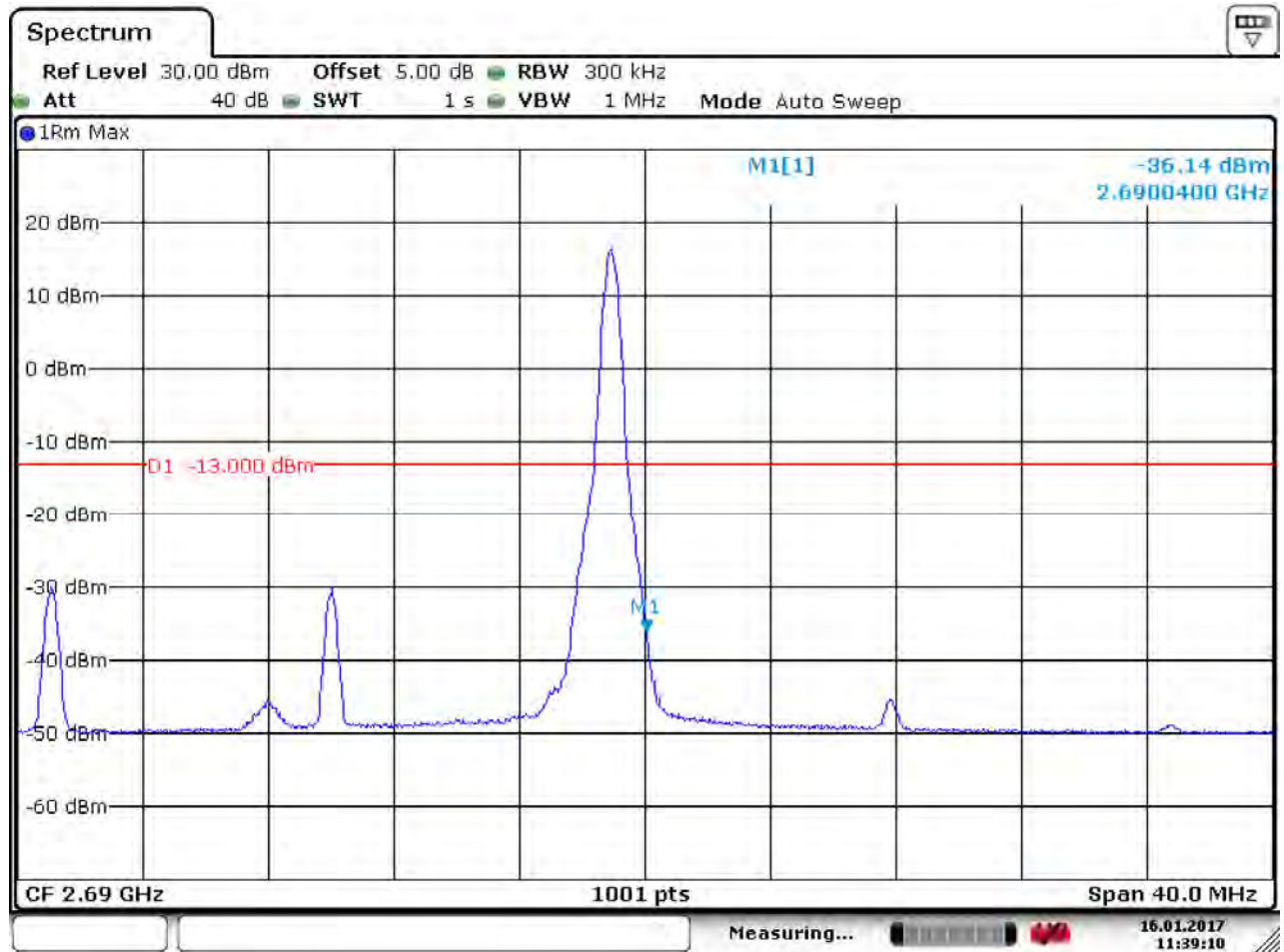


Date: 16.JAN.2017 11:33:26



5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 16.JAN.2017 11:39:11



5.1.1.11.2.2 Test RB=100RB



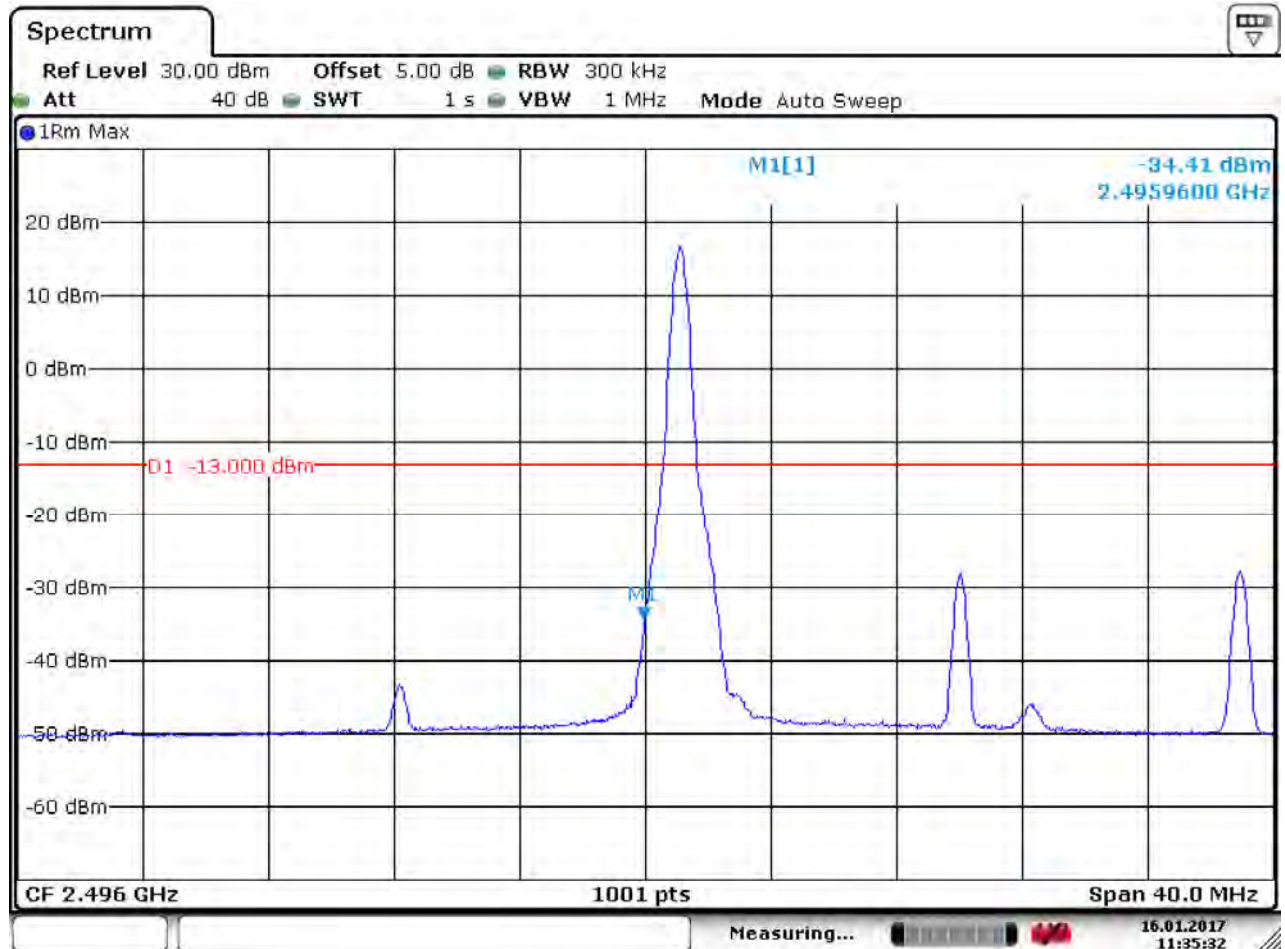
Date: 16.JAN.2017 11:40:41



5.1.1.12 Test Mode = LTE/TM3 20MHz

5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 16.JAN.2017 11:35:33



5.1.1.12.1.2 Test RB=100RB

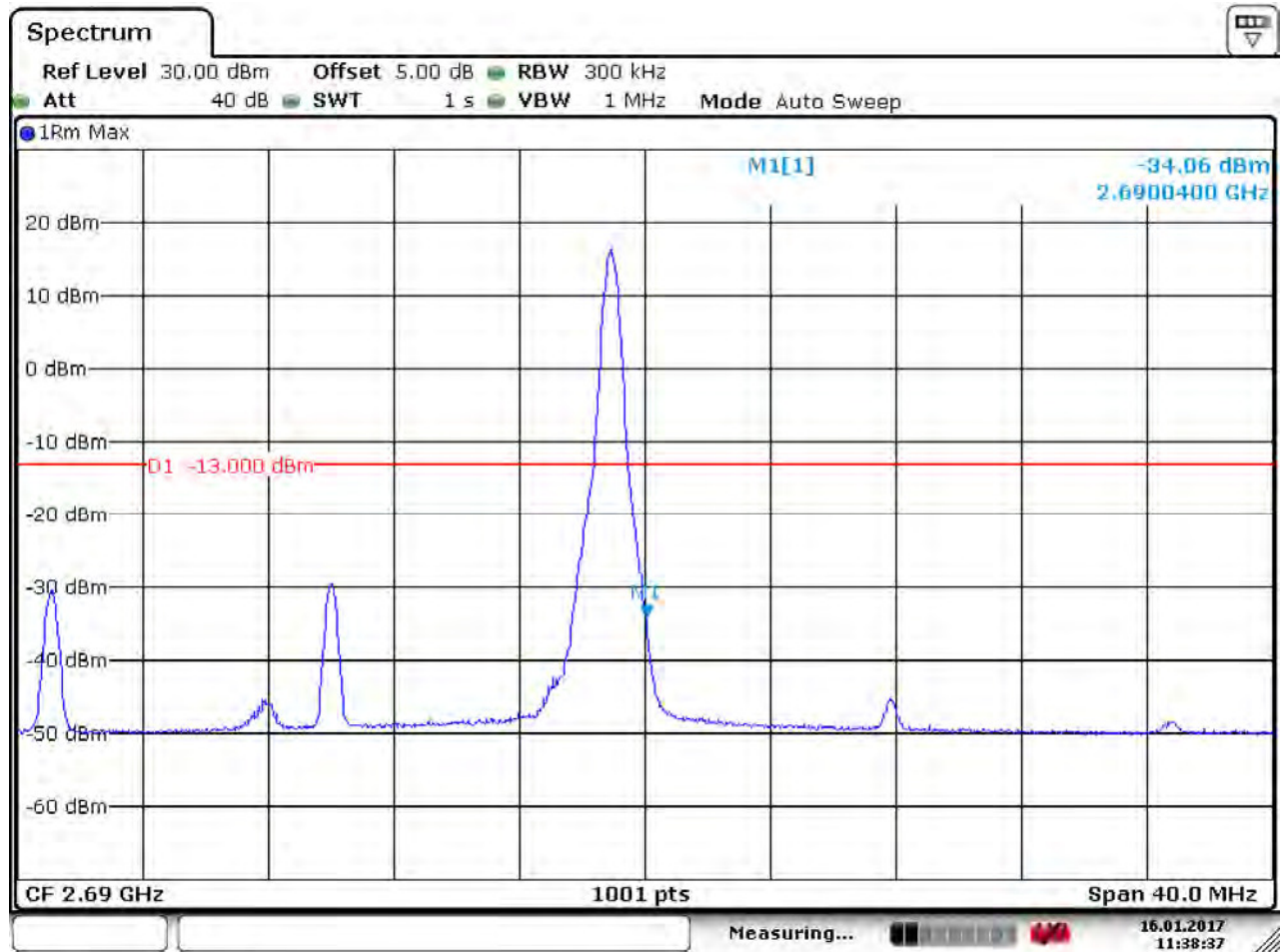


Date: 16.JAN.2017 11:32:14



5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 16.JAN.2017 11:38:38



5.1.1.12.2.2 Test RB=100RB



Date: 16.JAN.2017 11:41:14

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 = $k \cdot (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

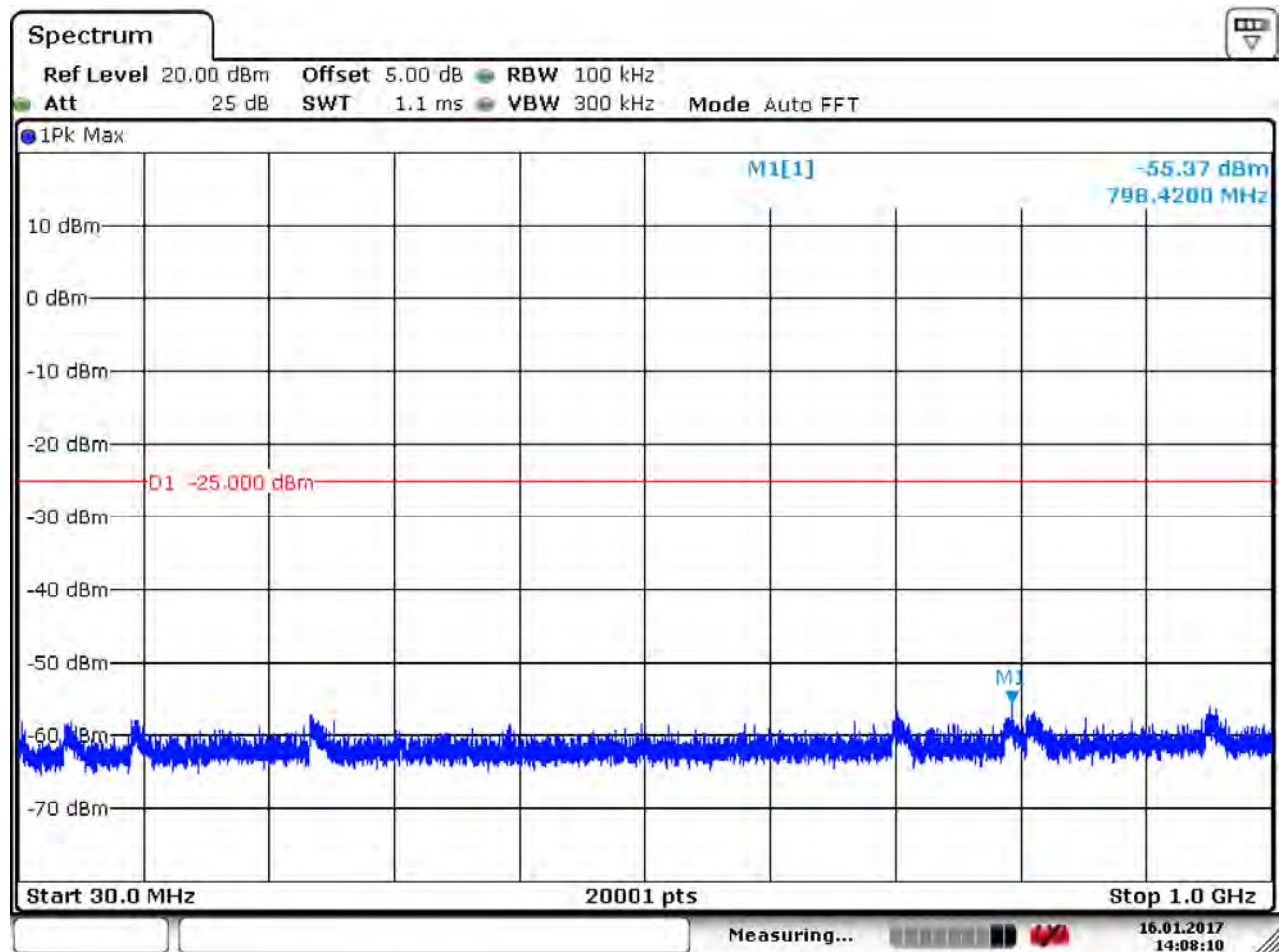
Part I - Test Plots

6.1 For LTE

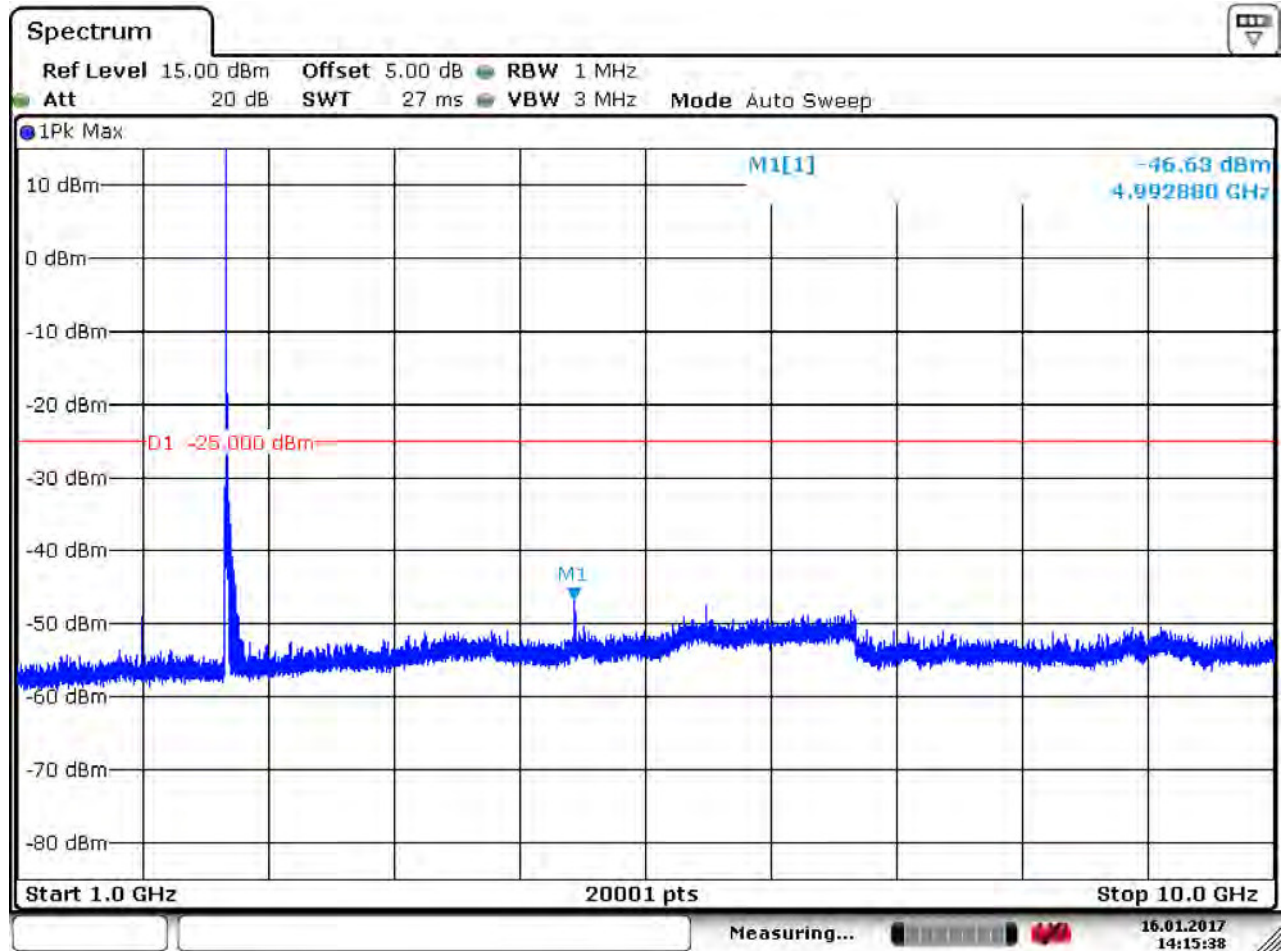
6.1.1 Test Band = LTE band 41

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

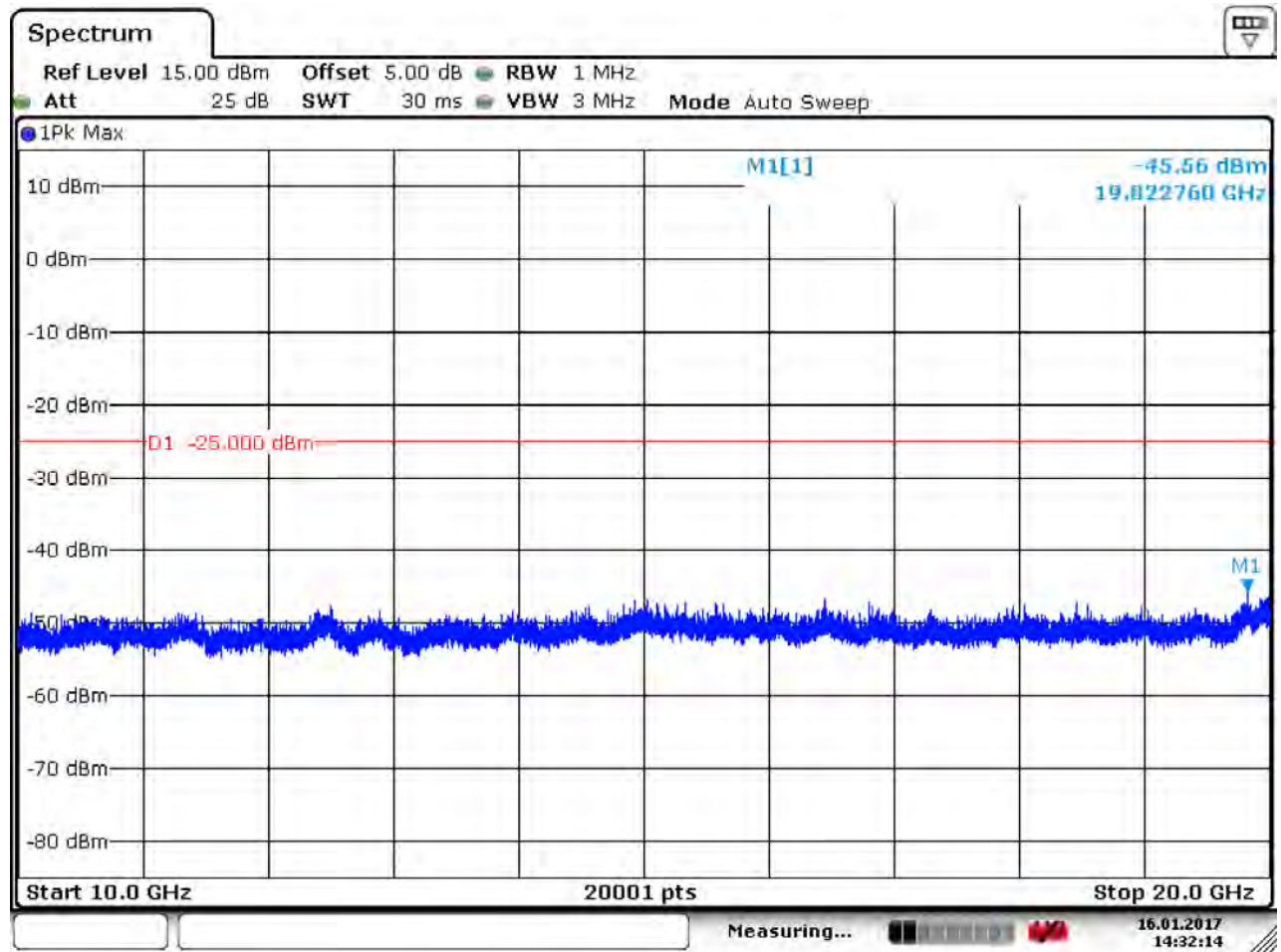
6.1.1.1.1 Test Channel = LCH



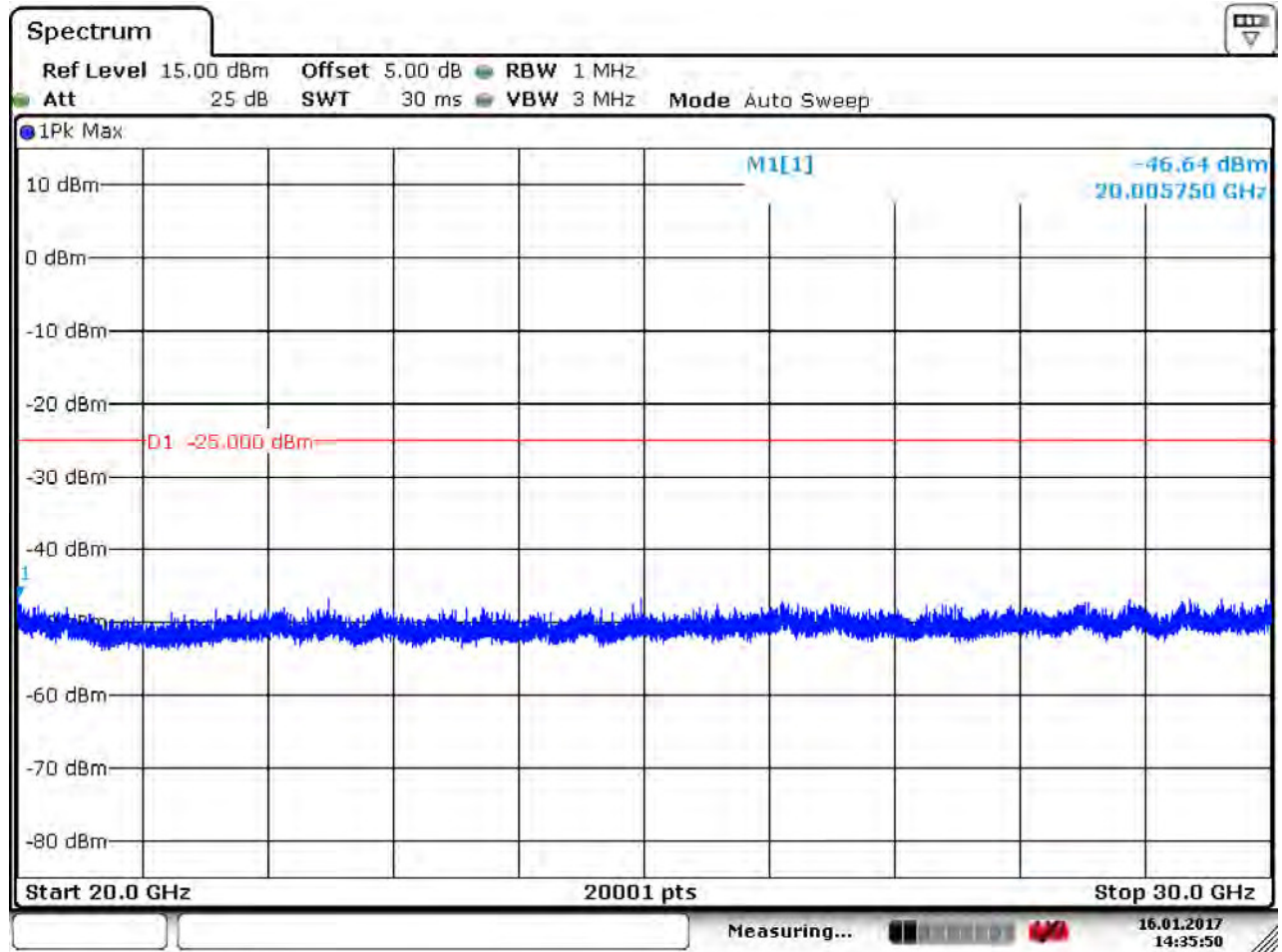
Date: 16.JAN.2017 14:08:10



Date: 16.JAN.2017 14:15:39



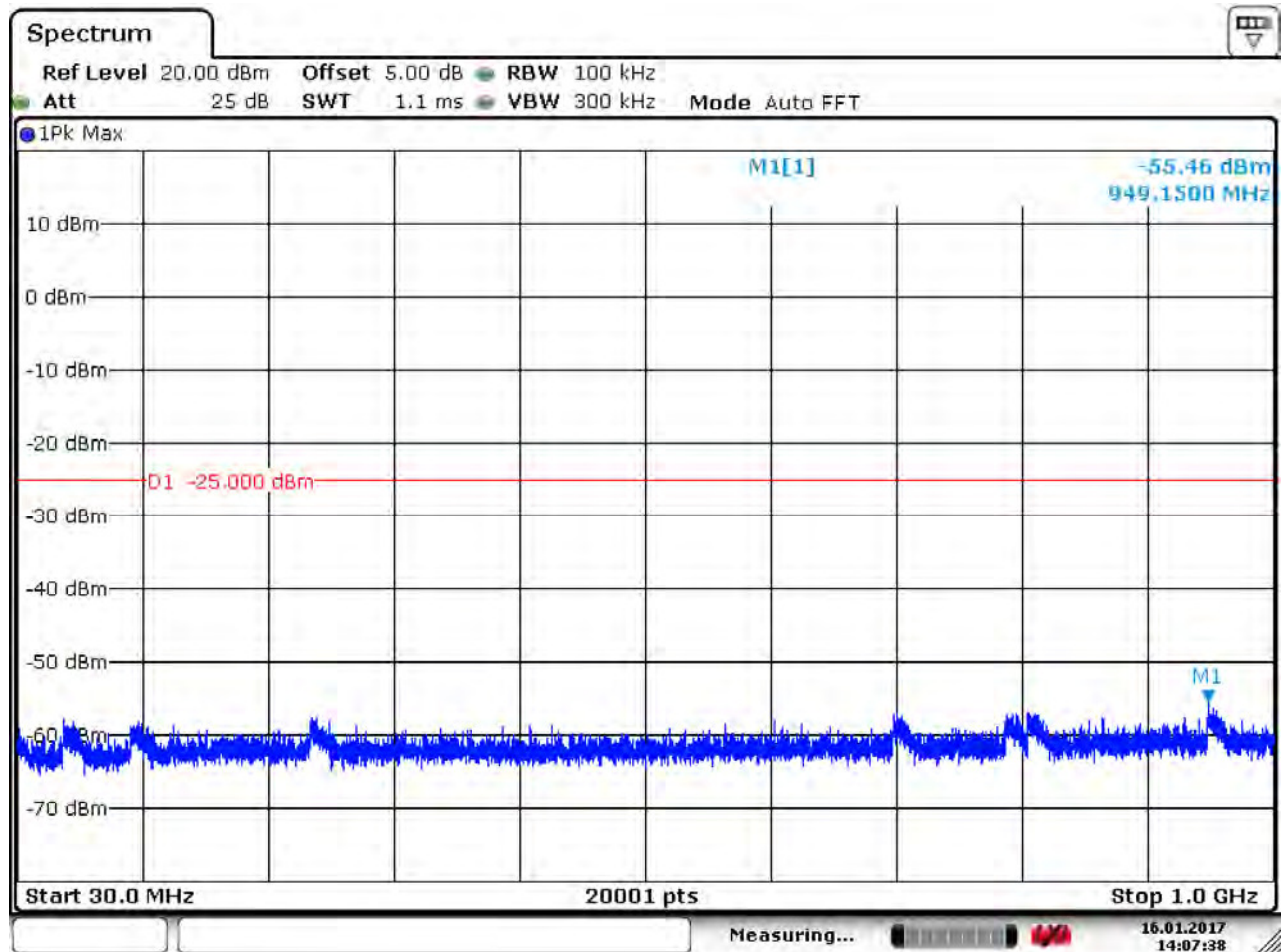
Date: 16.JAN.2017 14:32:15



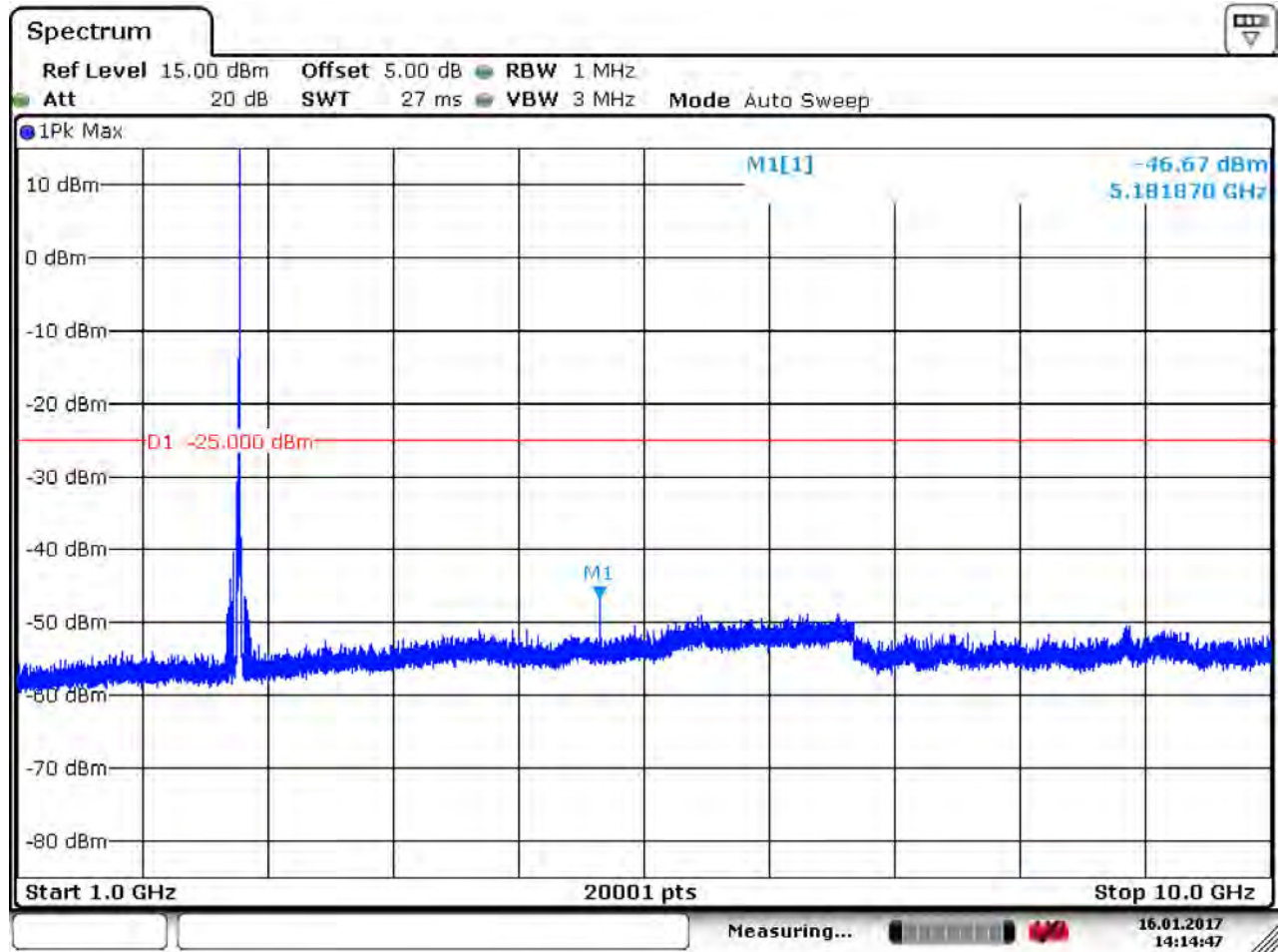
Date: 16.JAN.2017 14:35:51



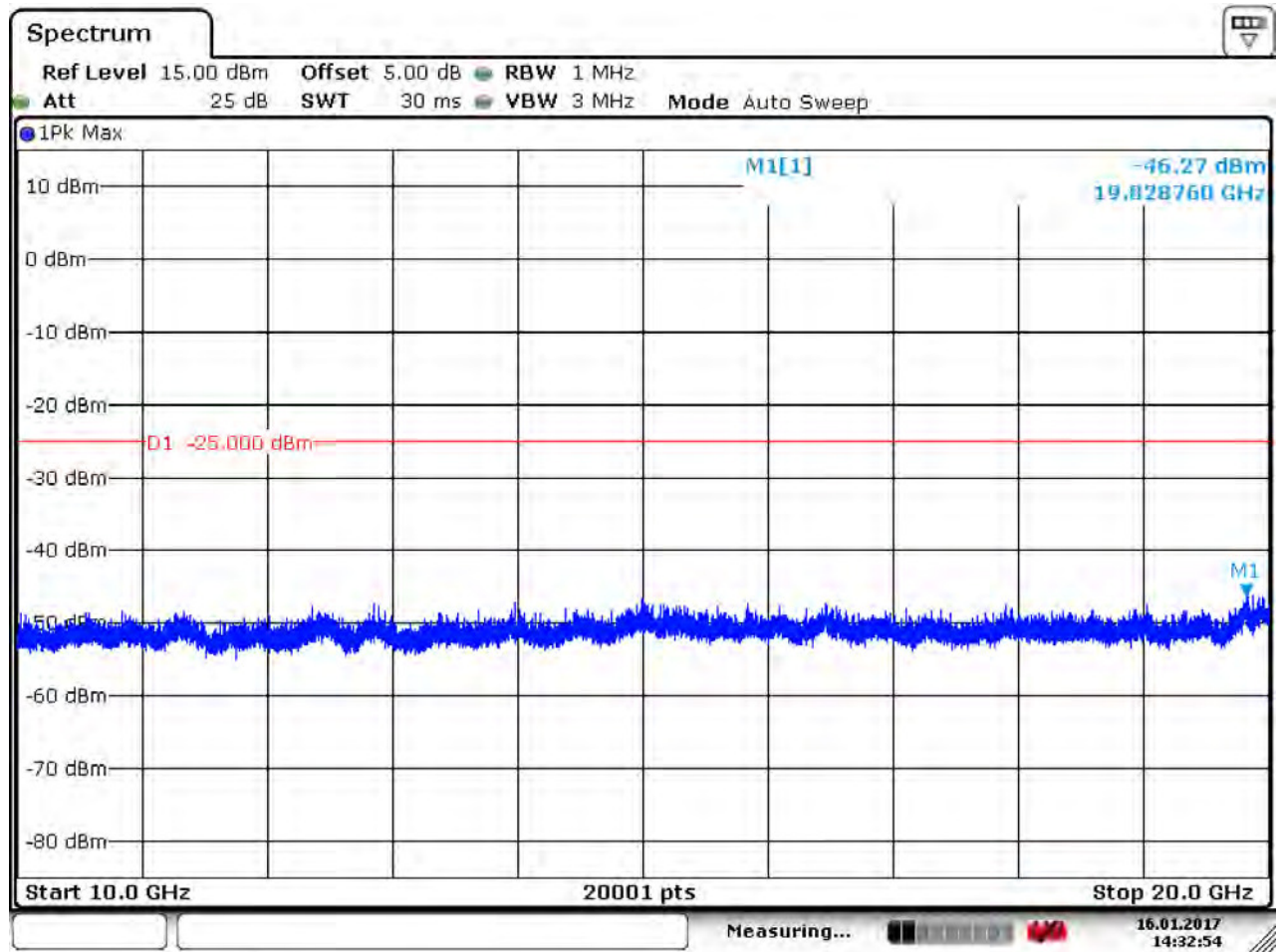
6.1.1.1.2 Test Channel = MCH



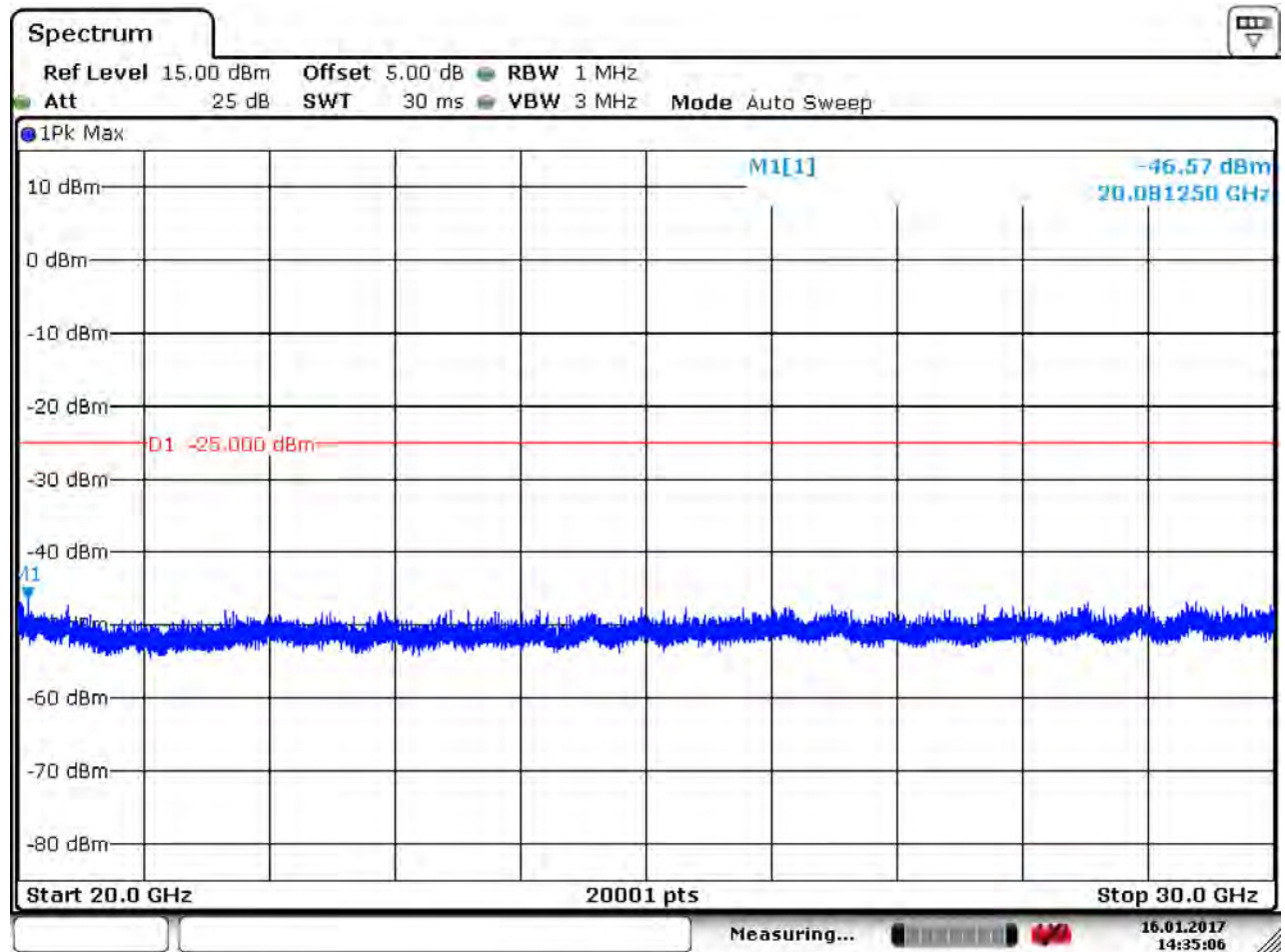
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Date: 16.JAN.2017 14:14:48



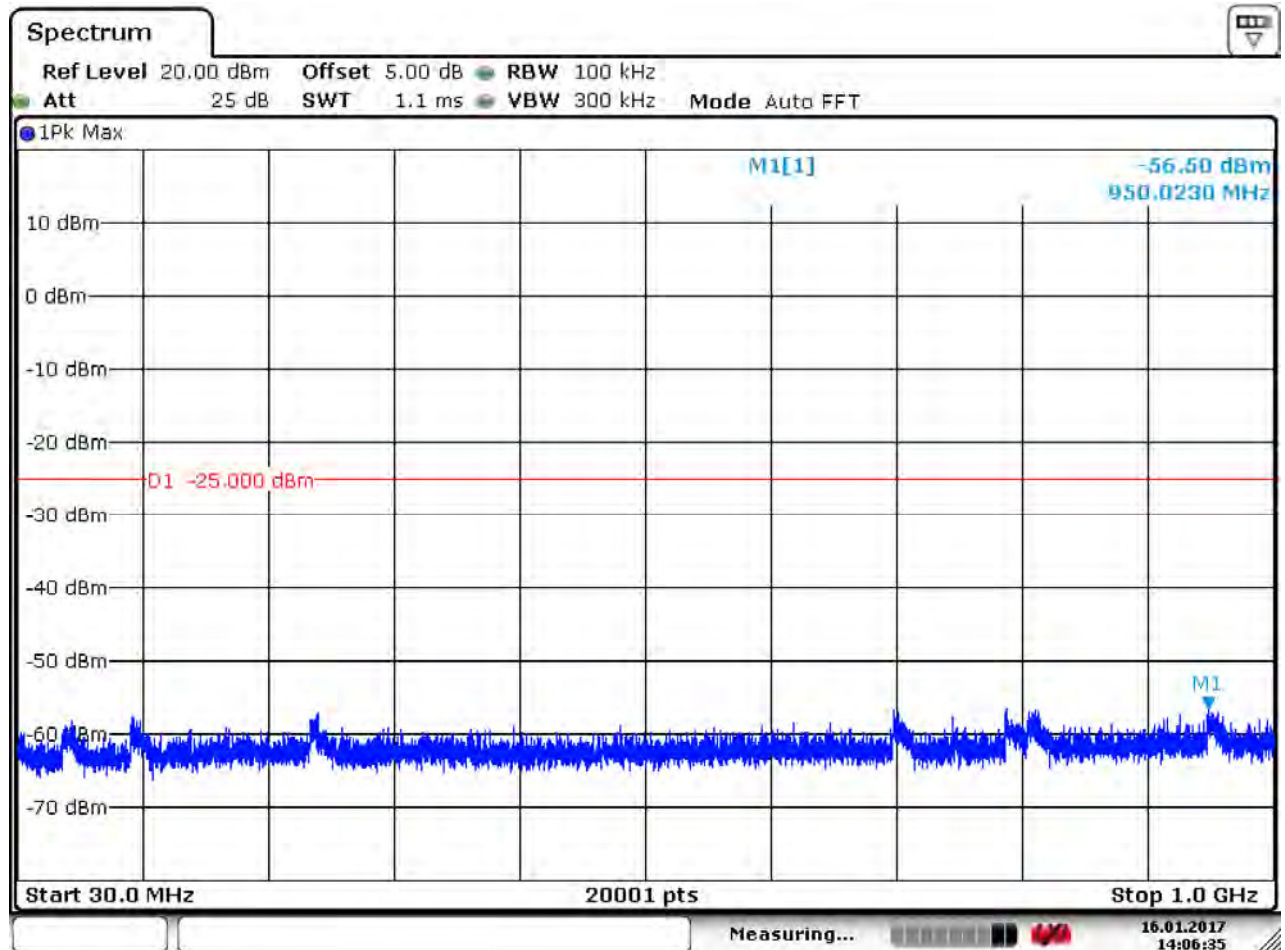
Date: 16.JAN.2017 14:32:55



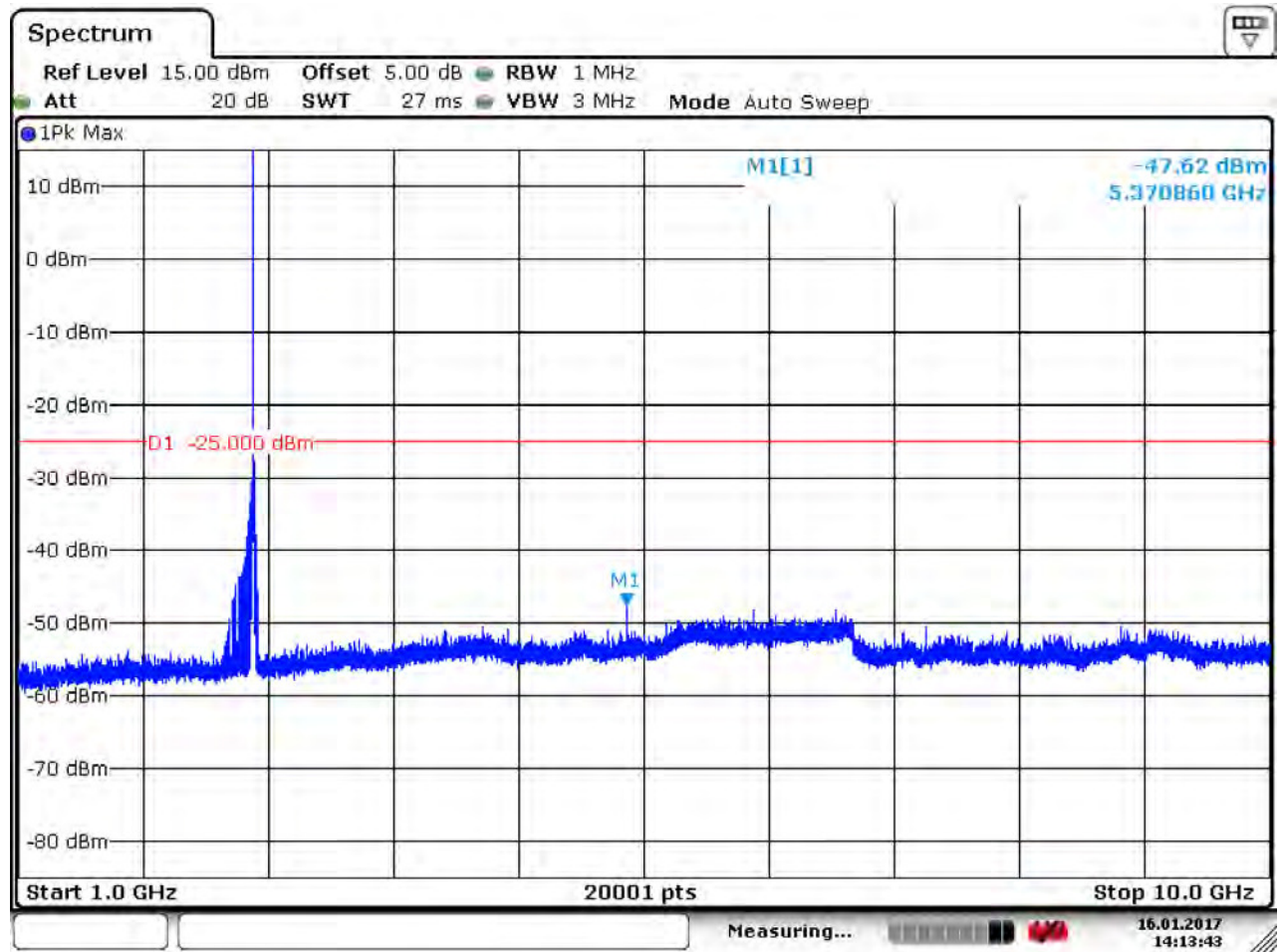
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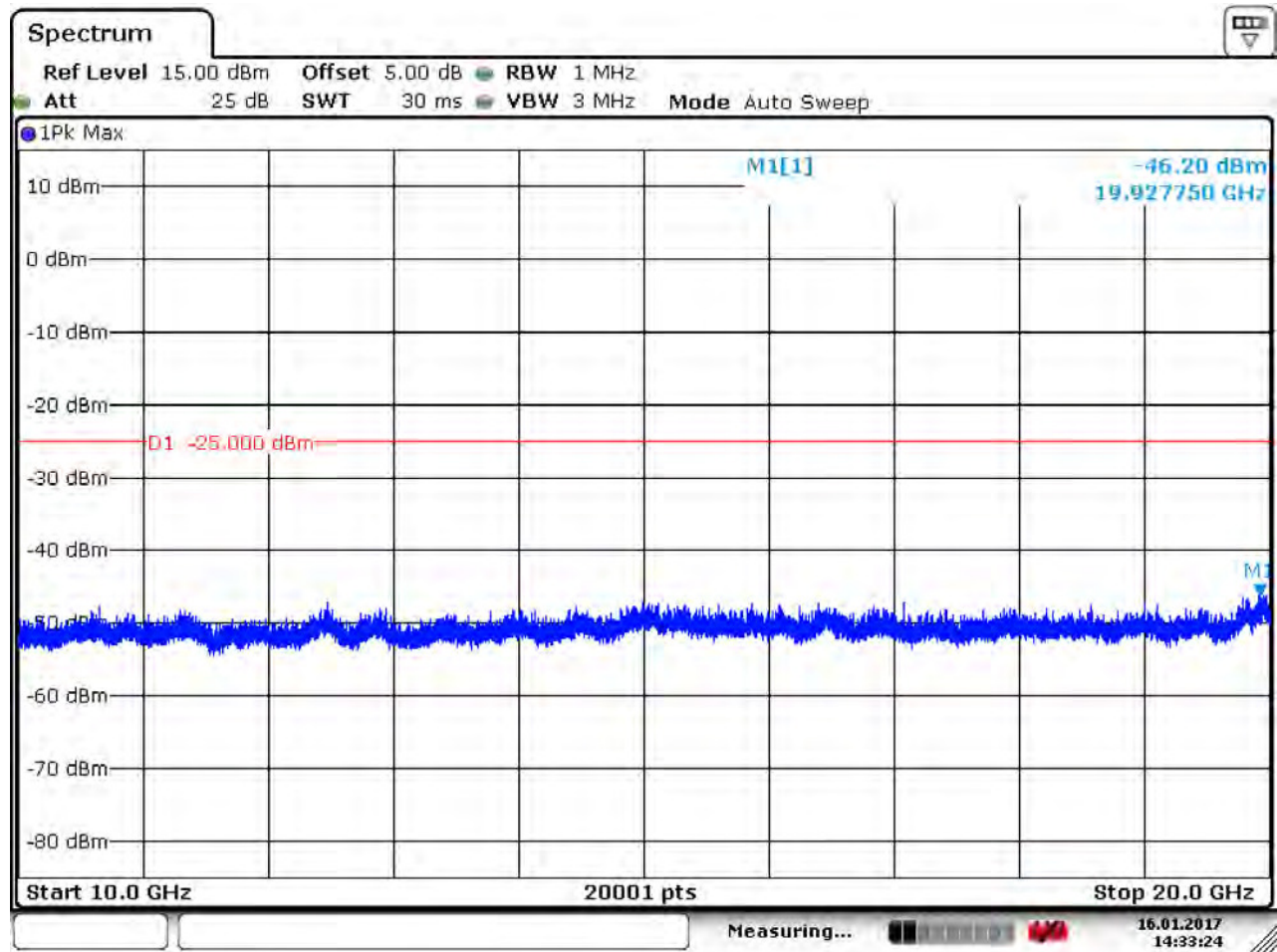
6.1.1.1.3 Test Channel = HCH



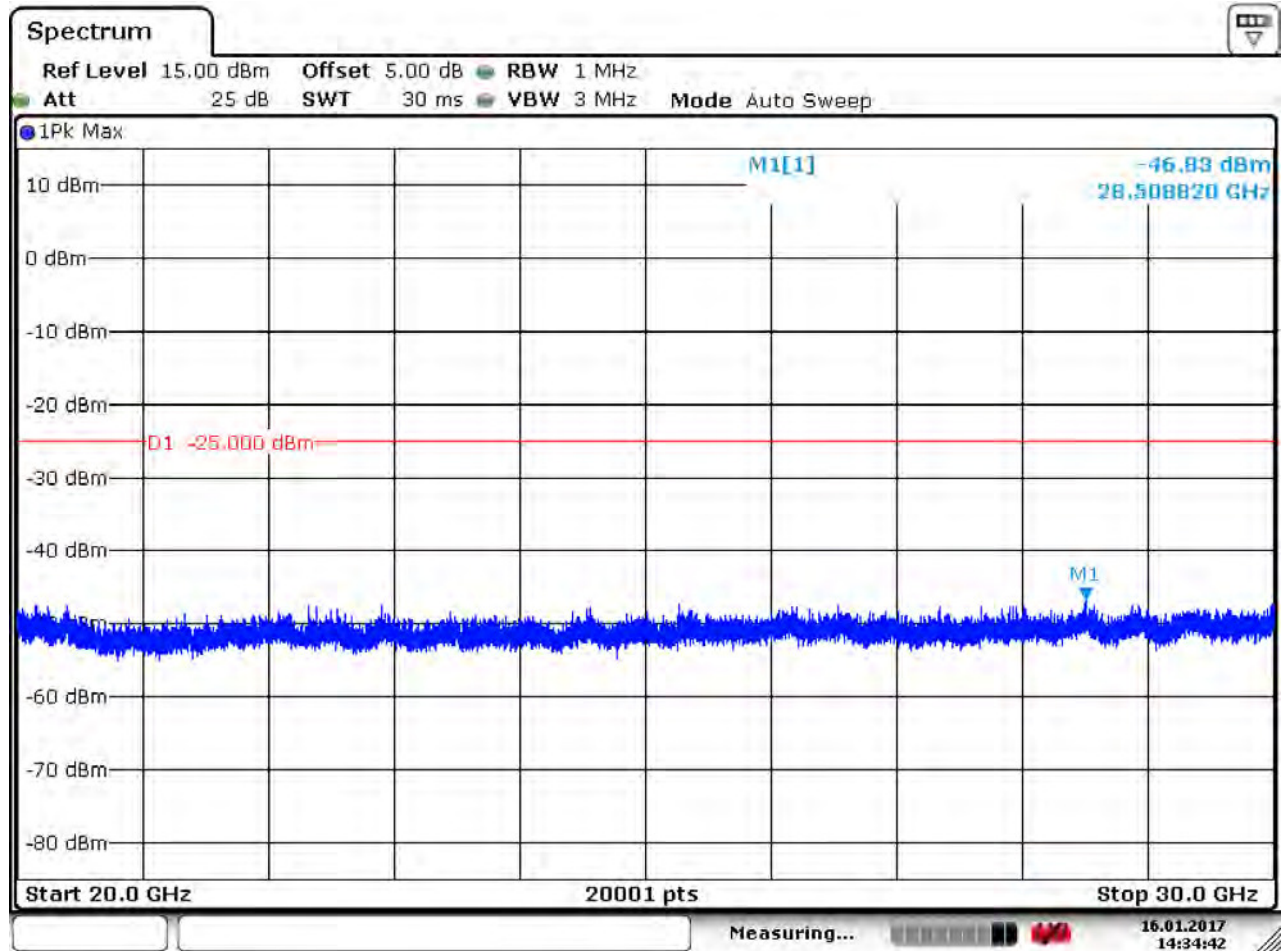
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Date: 16.JAN.2017 14:13:43



Date: 16.JAN.2017 14:33:25

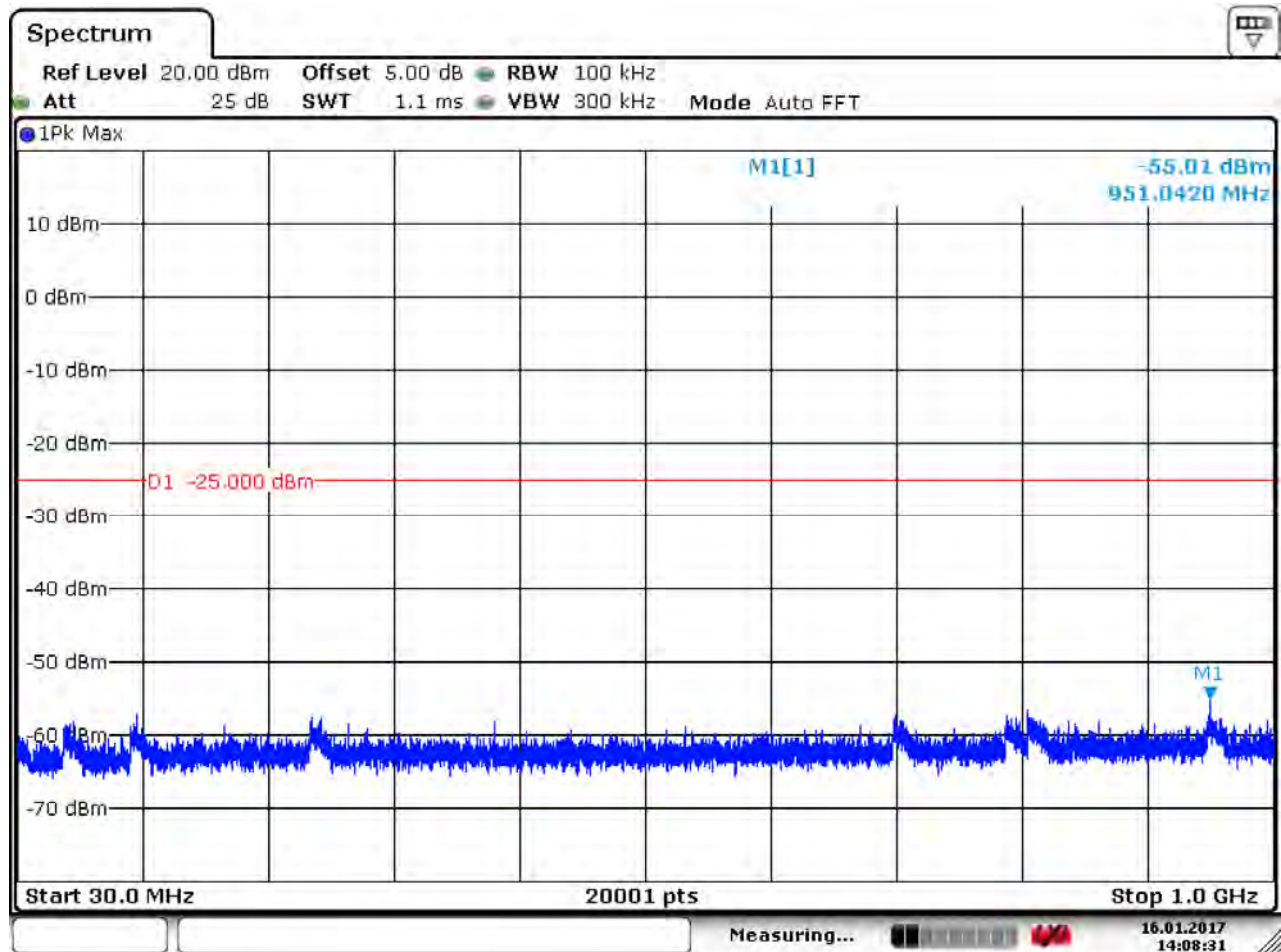


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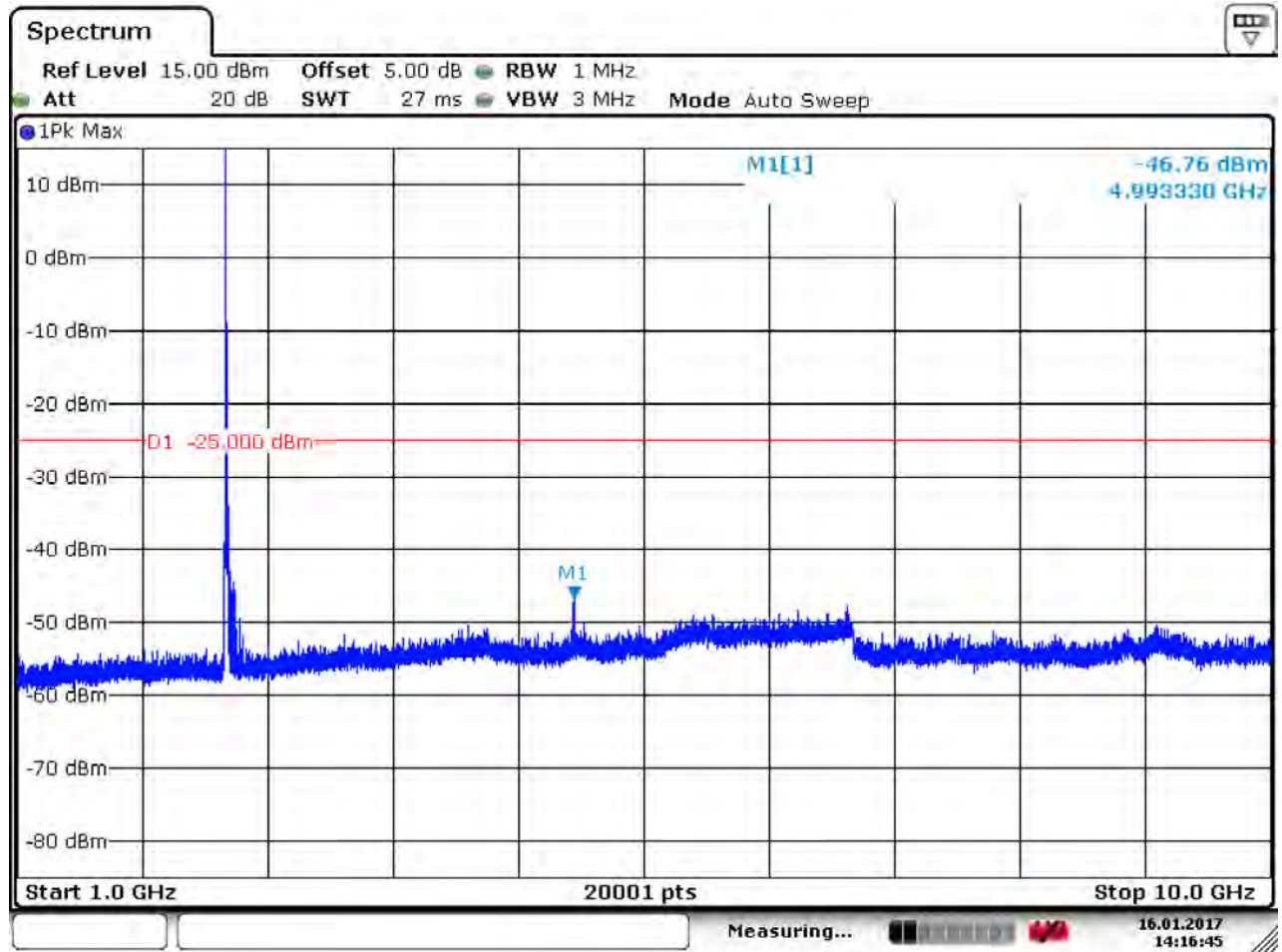


6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

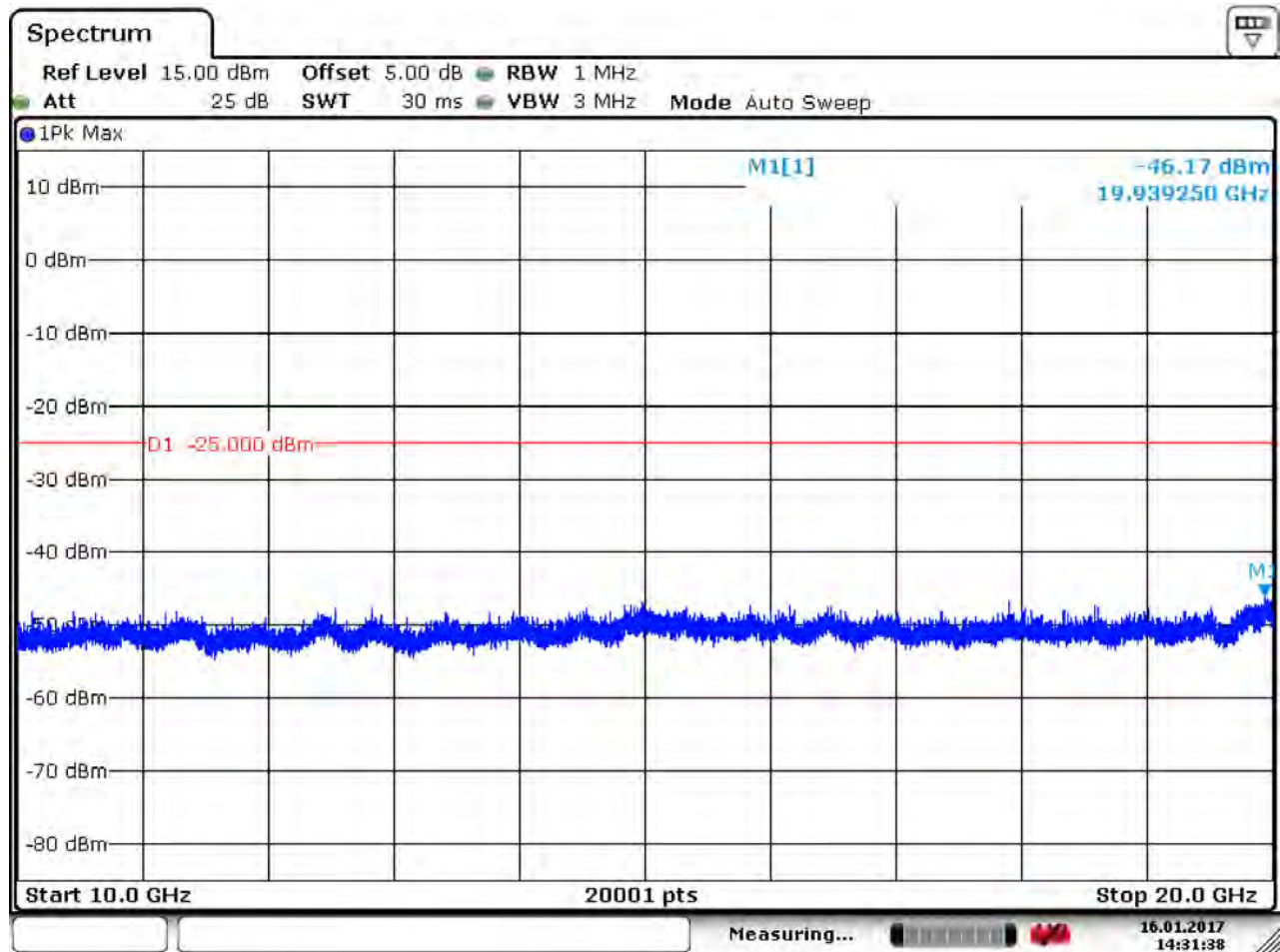
6.1.1.2.1 Test Channel = LCH



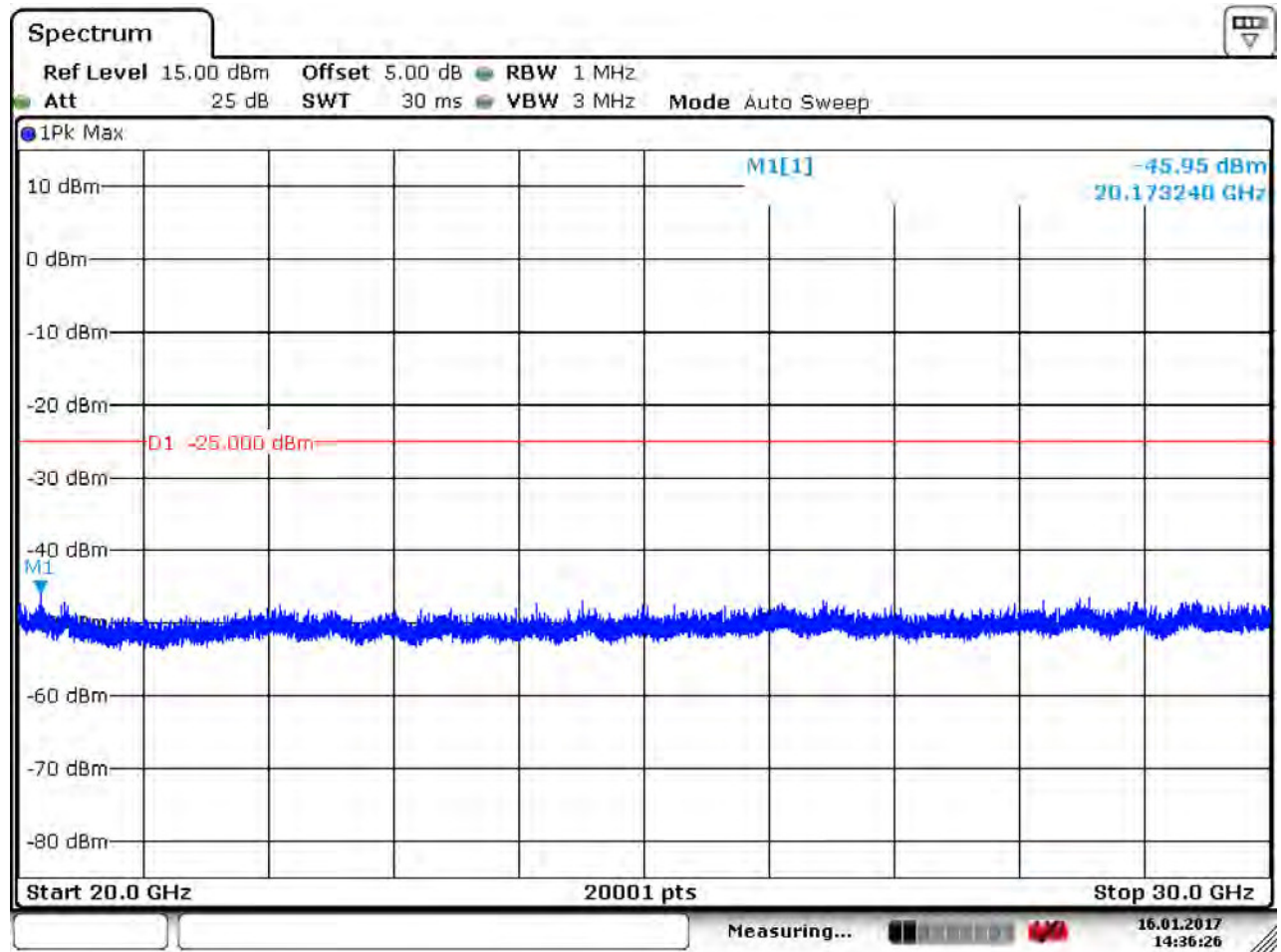
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Date: 16.JAN.2017 14:16:45



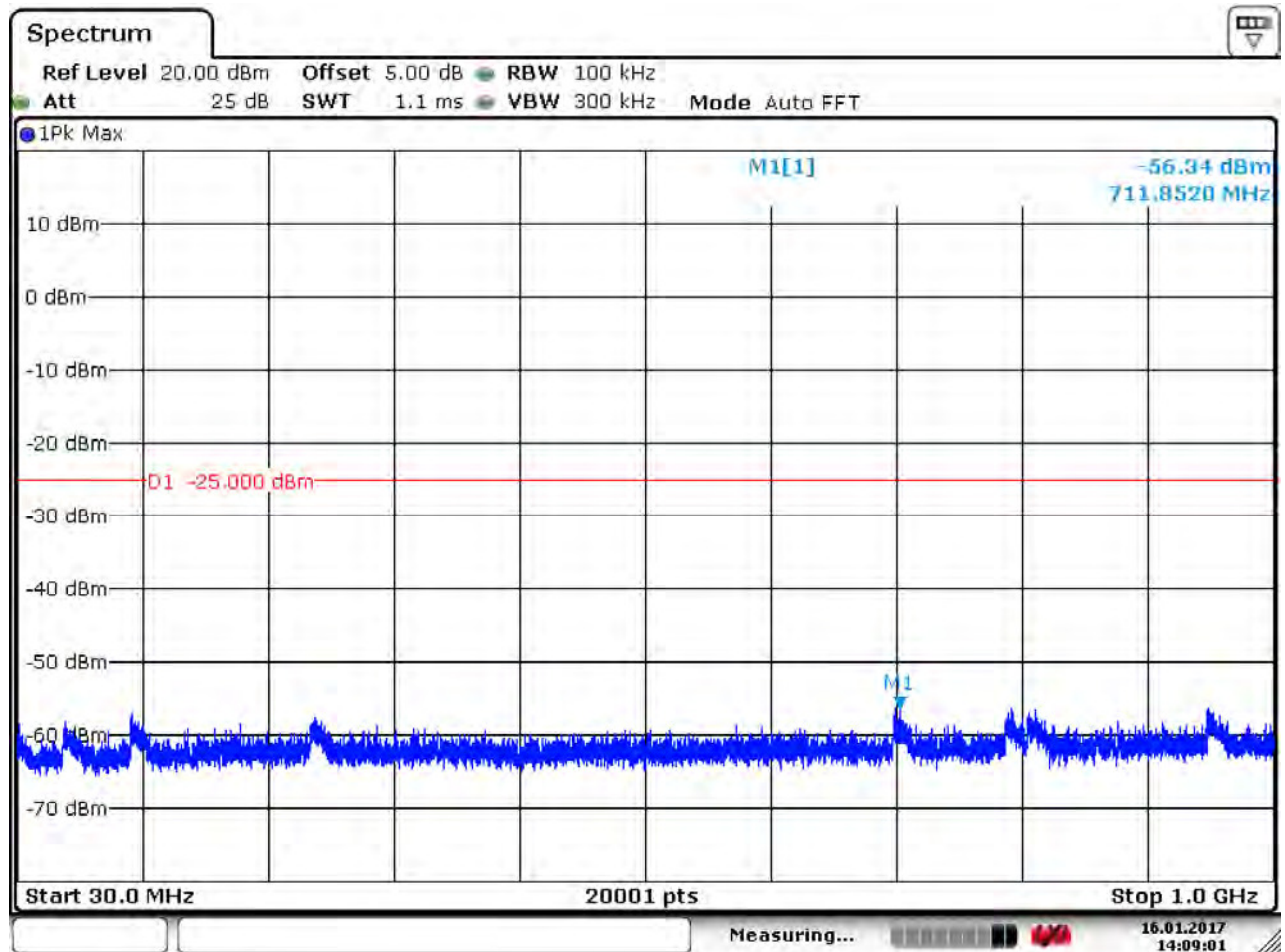
Date: 16.JAN.2017 14:31:39



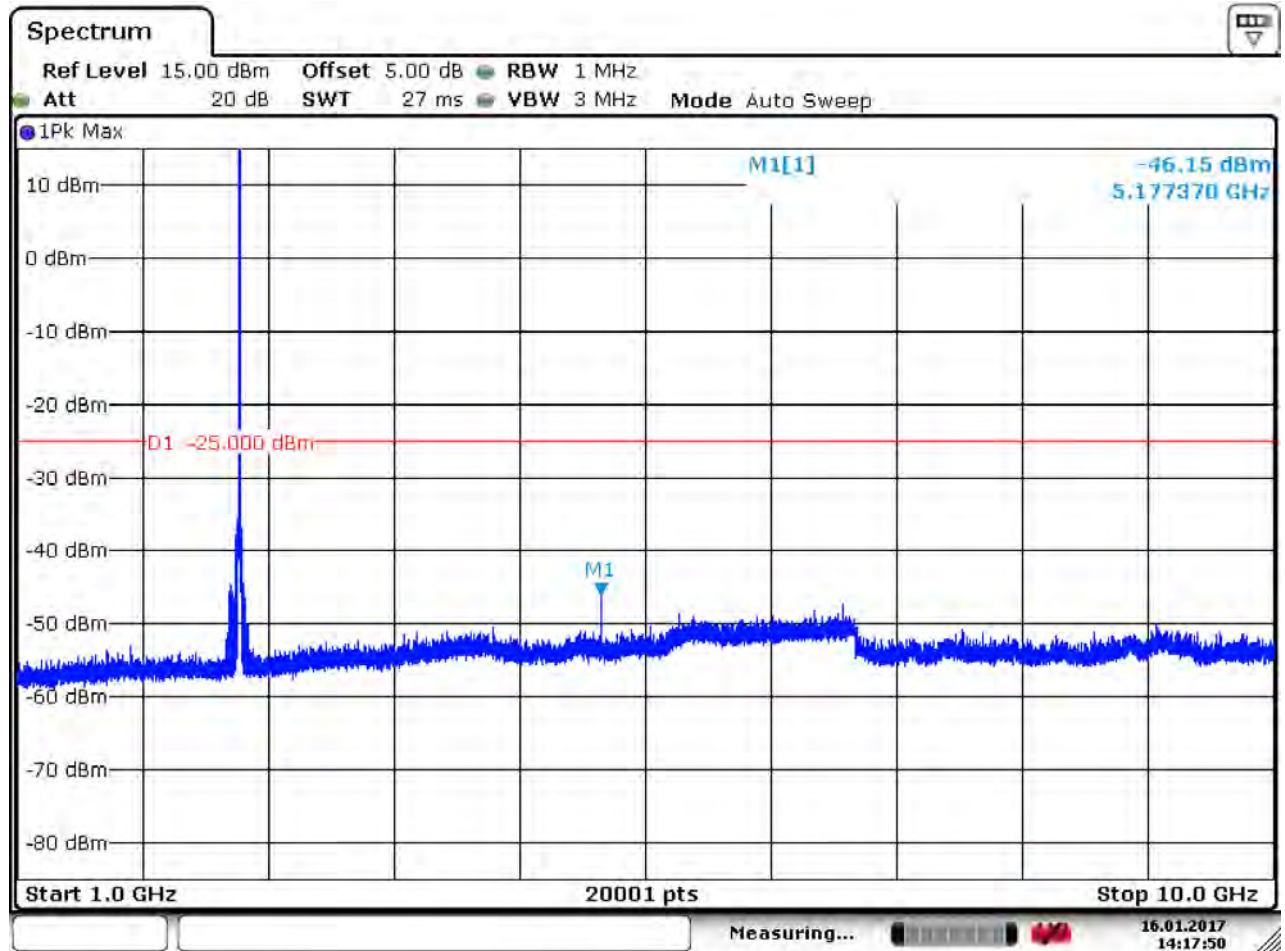
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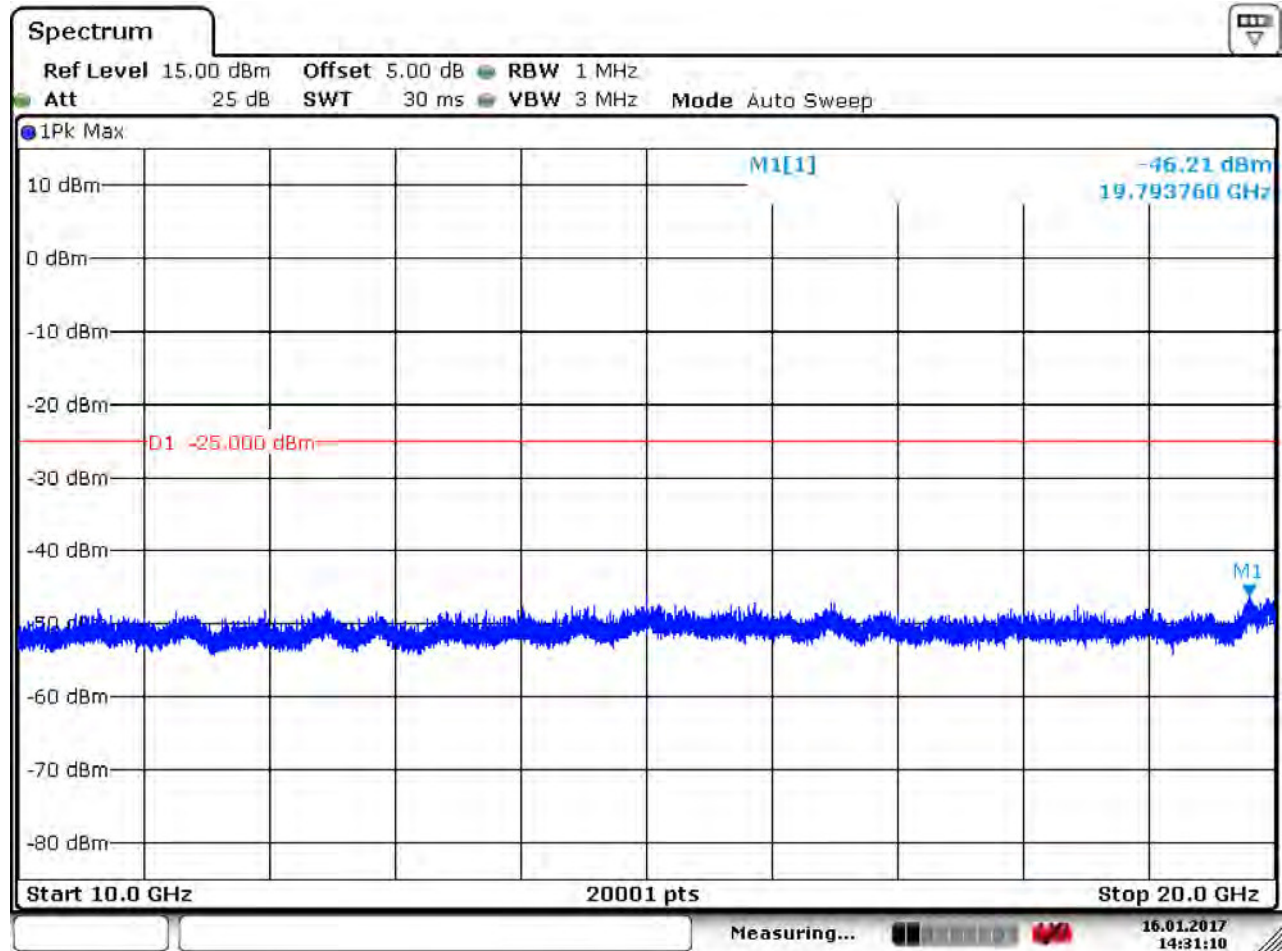
6.1.1.2.2 Test Channel = MCH



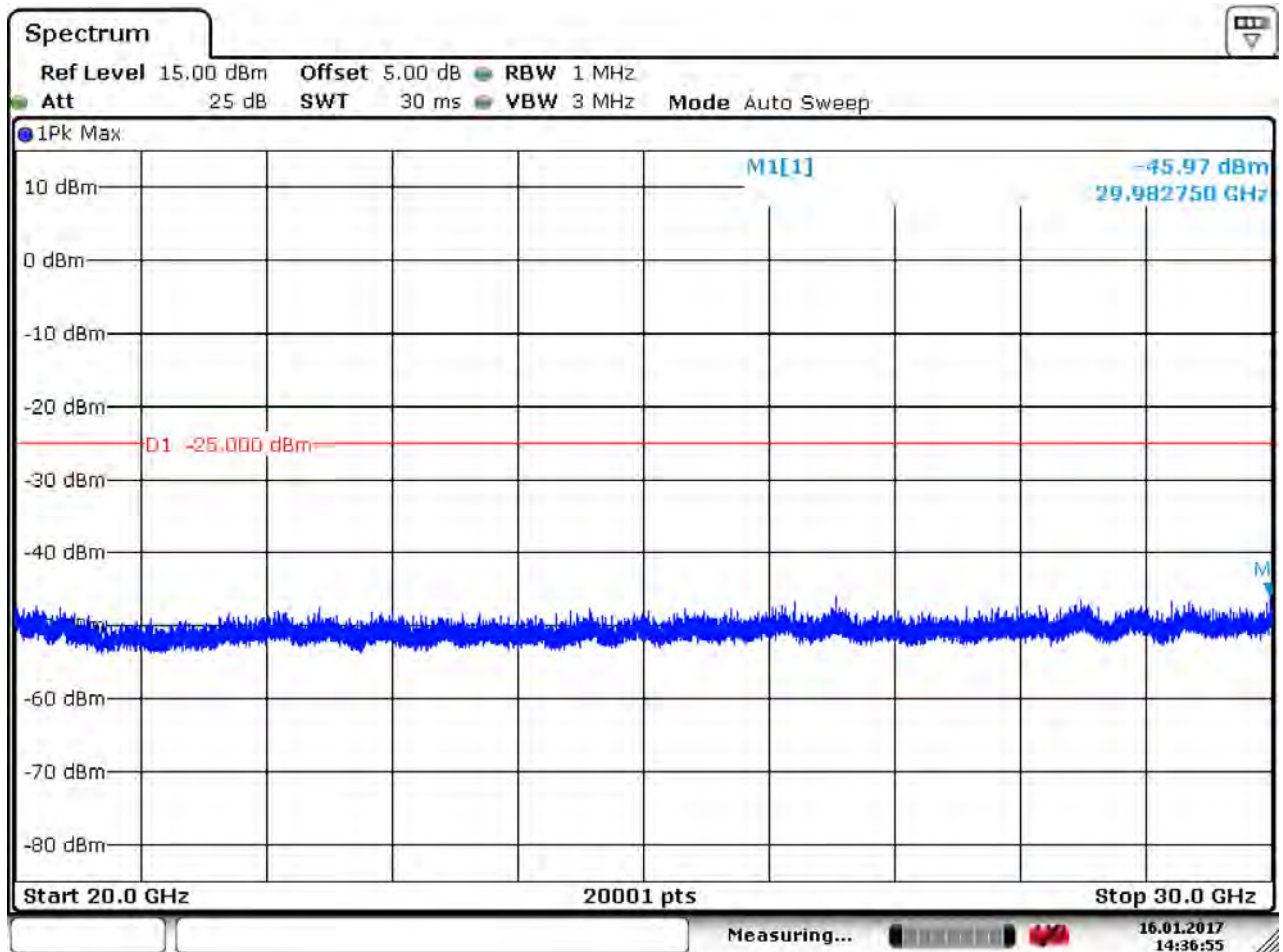
Date: 16.JAN.2017 14:09:01



Date: 16.JAN.2017 14:17:51



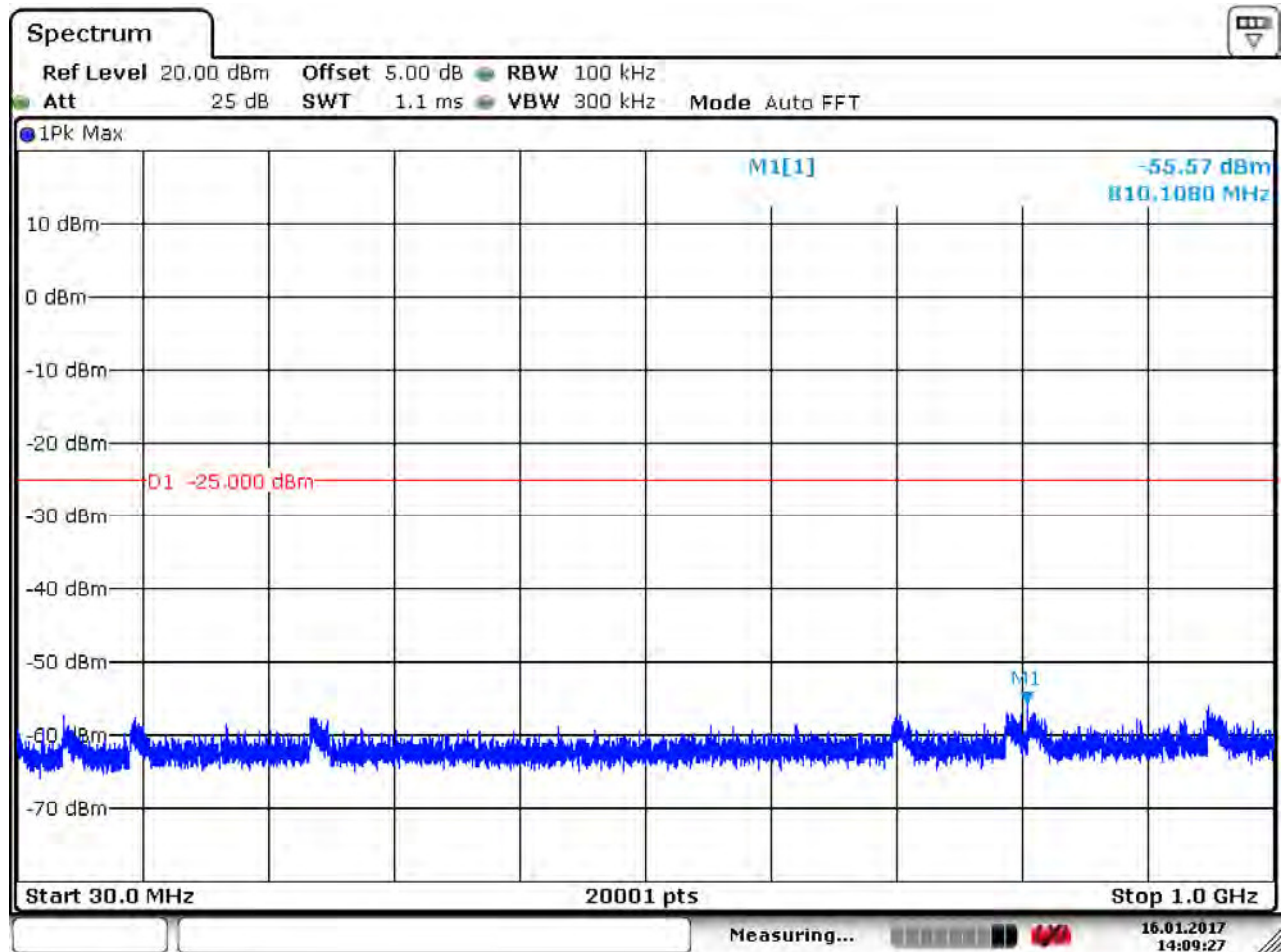
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Date: 16.JAN.2017 14:36:55



6.1.1.2.3 Test Channel = HCH



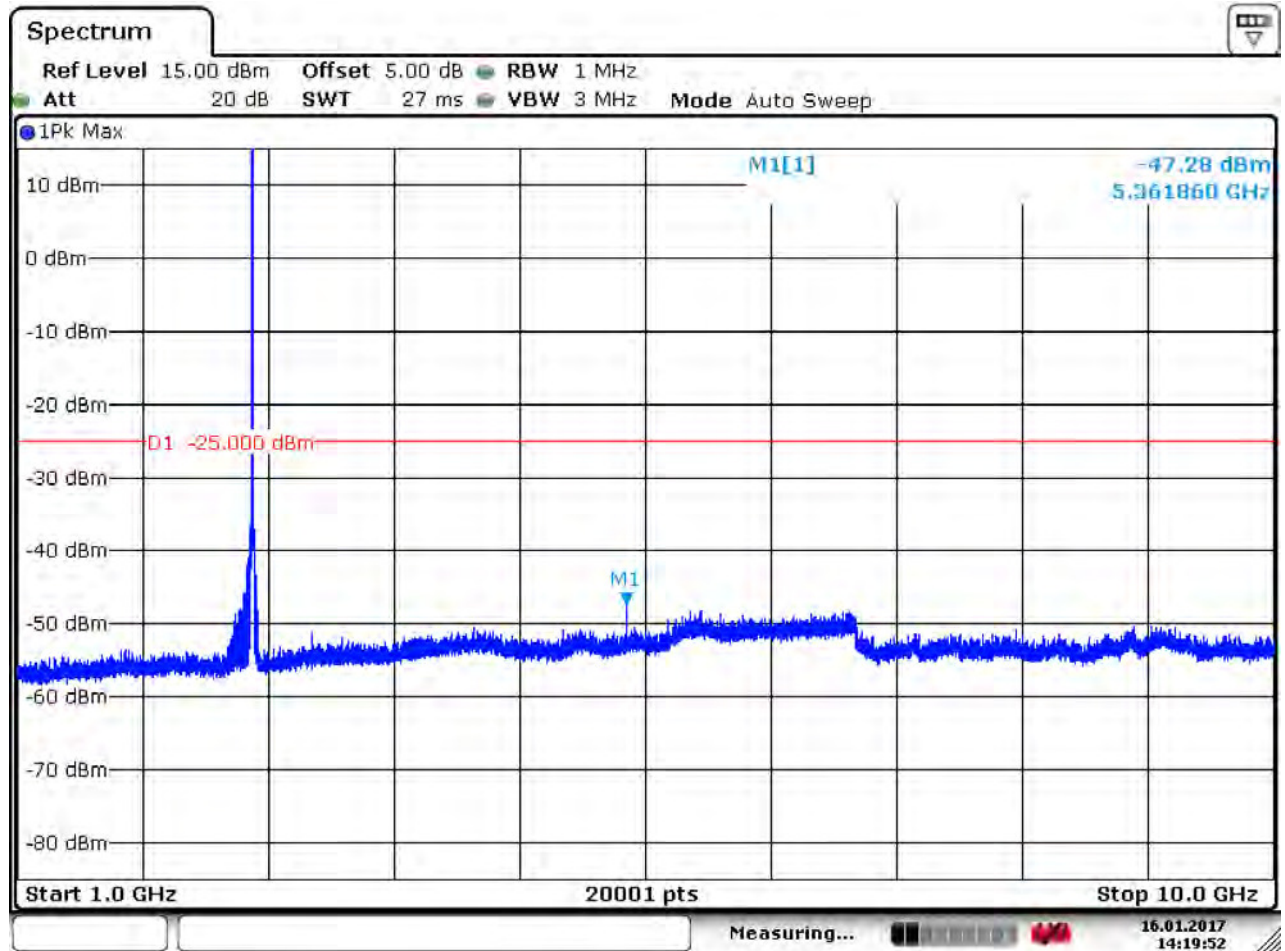
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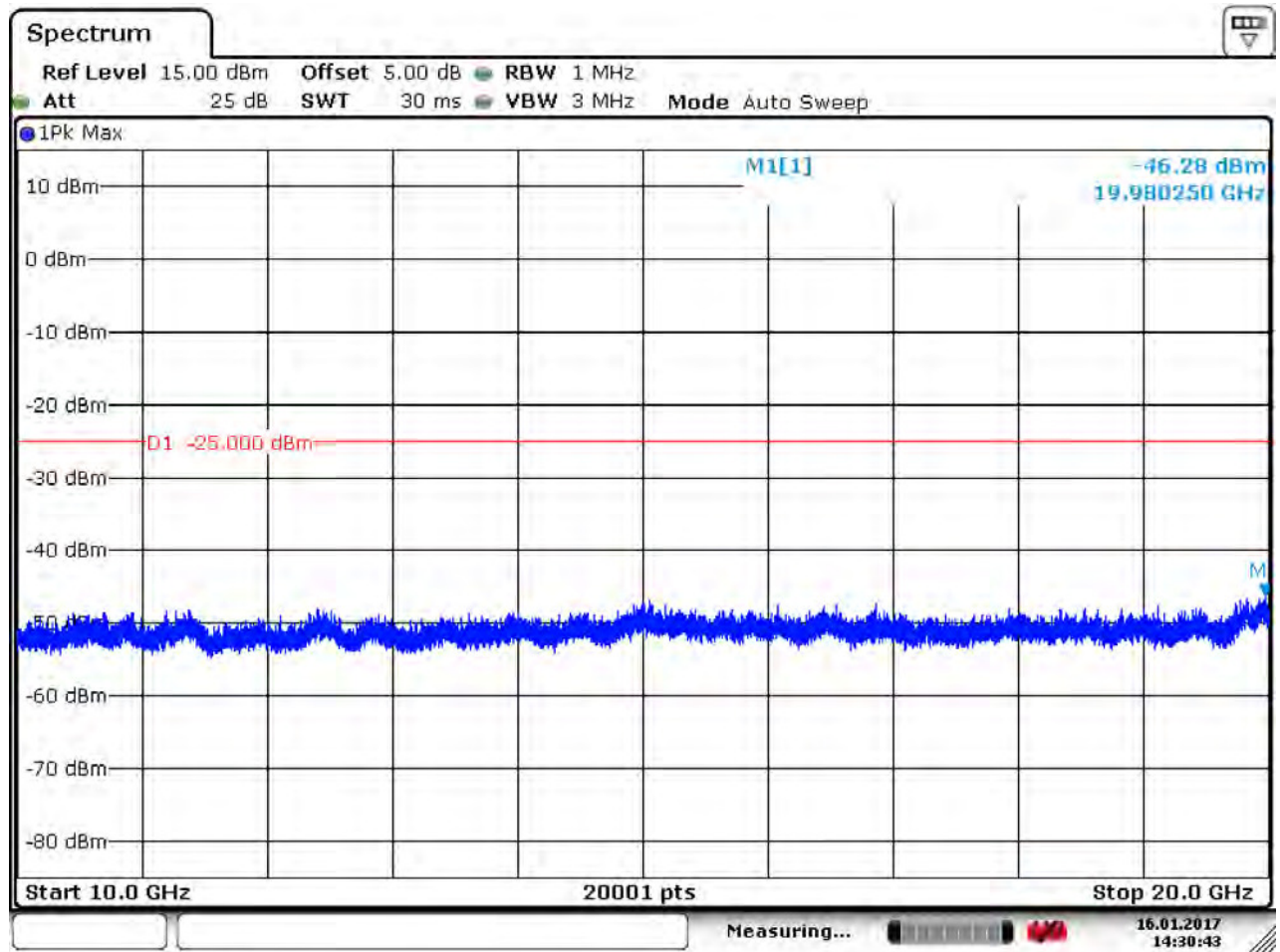
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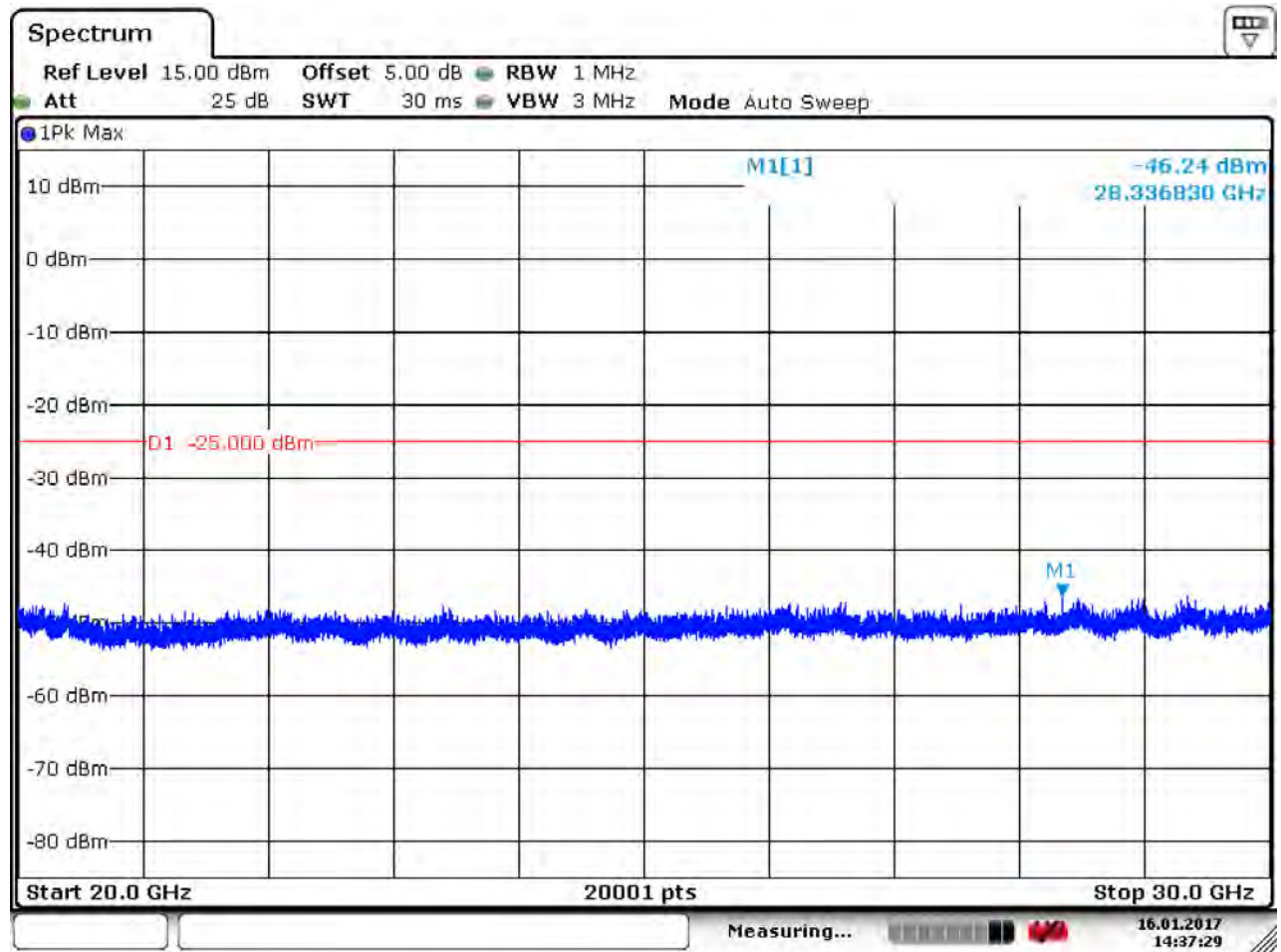


Date: 16.JAN.2017 14:19:52

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Date: 16.JAN.2017 14:30:43

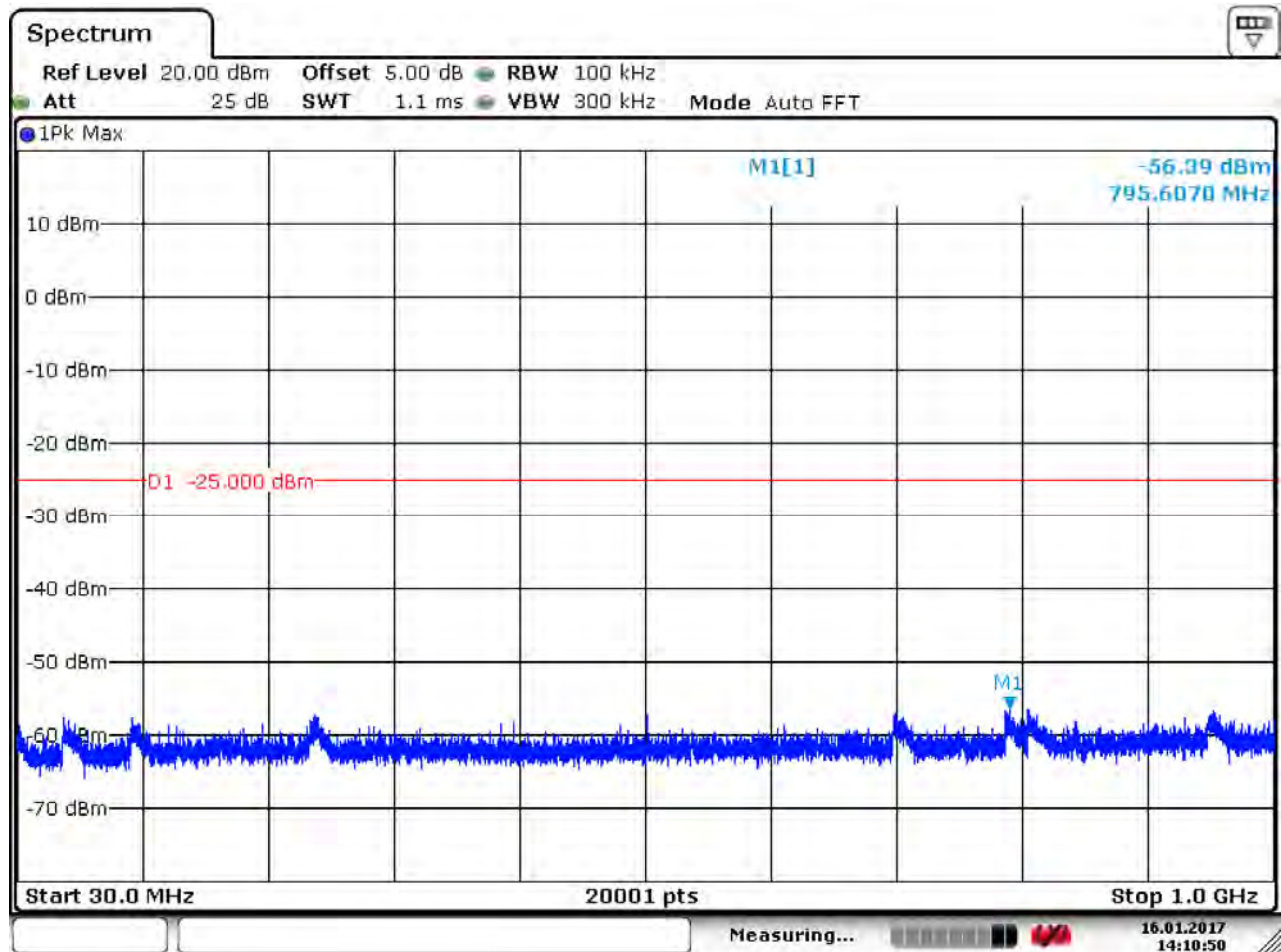


Date: 16.JAN.2017 14:37:29

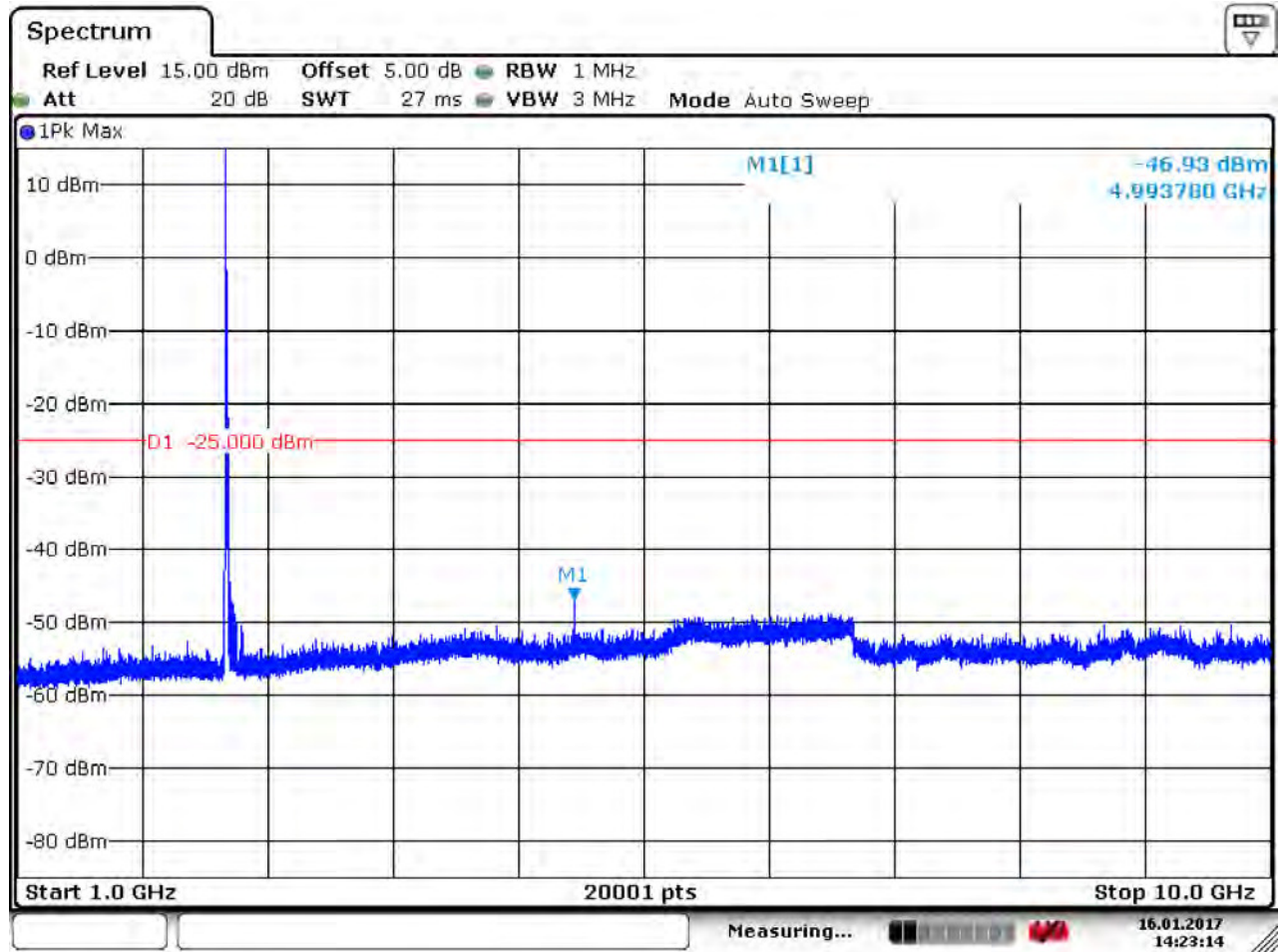


6.1.1.3 Test Mode = LTE / TM1 15MHz RB1#0

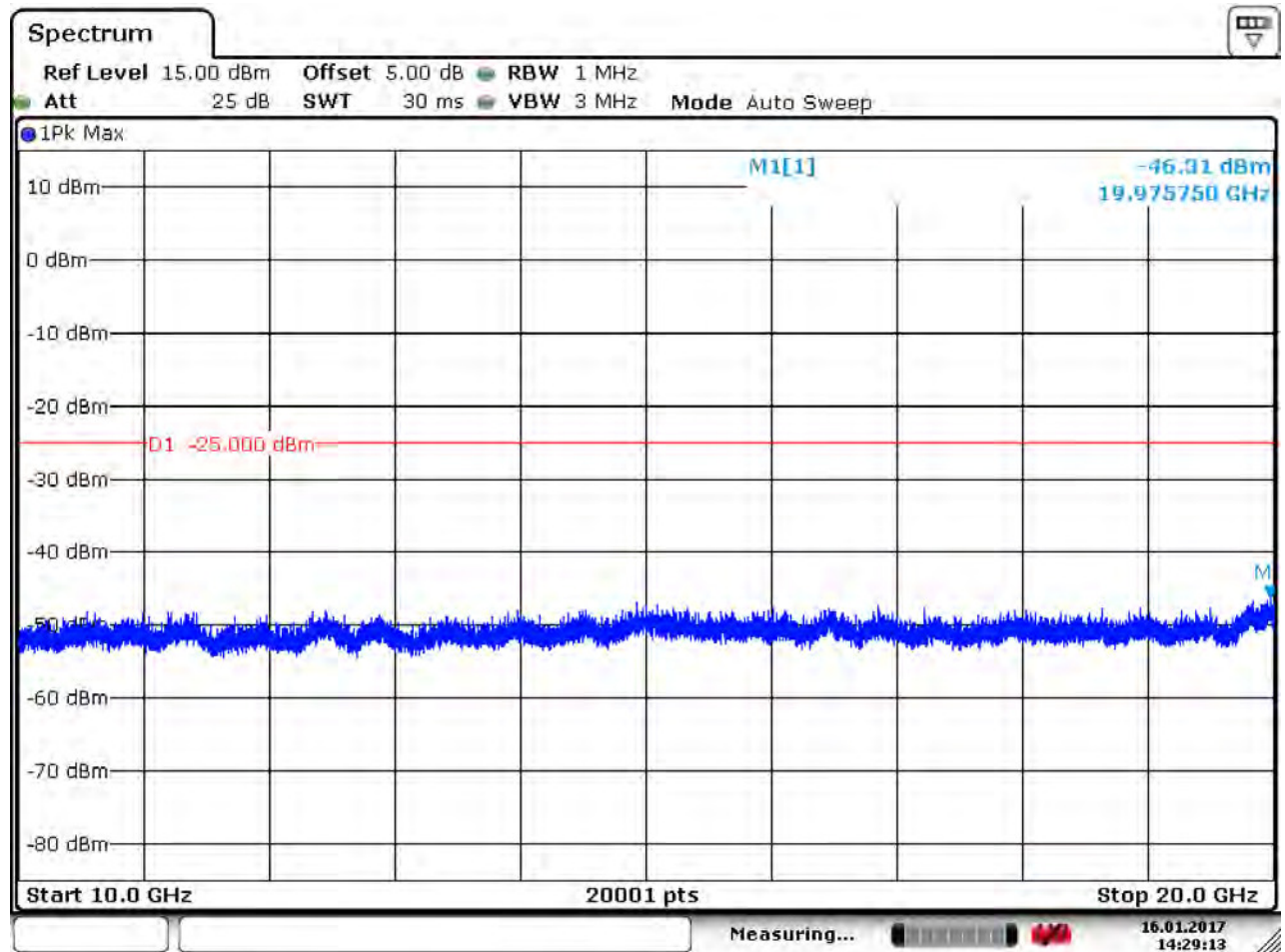
6.1.1.3.1 Test Channel = LCH



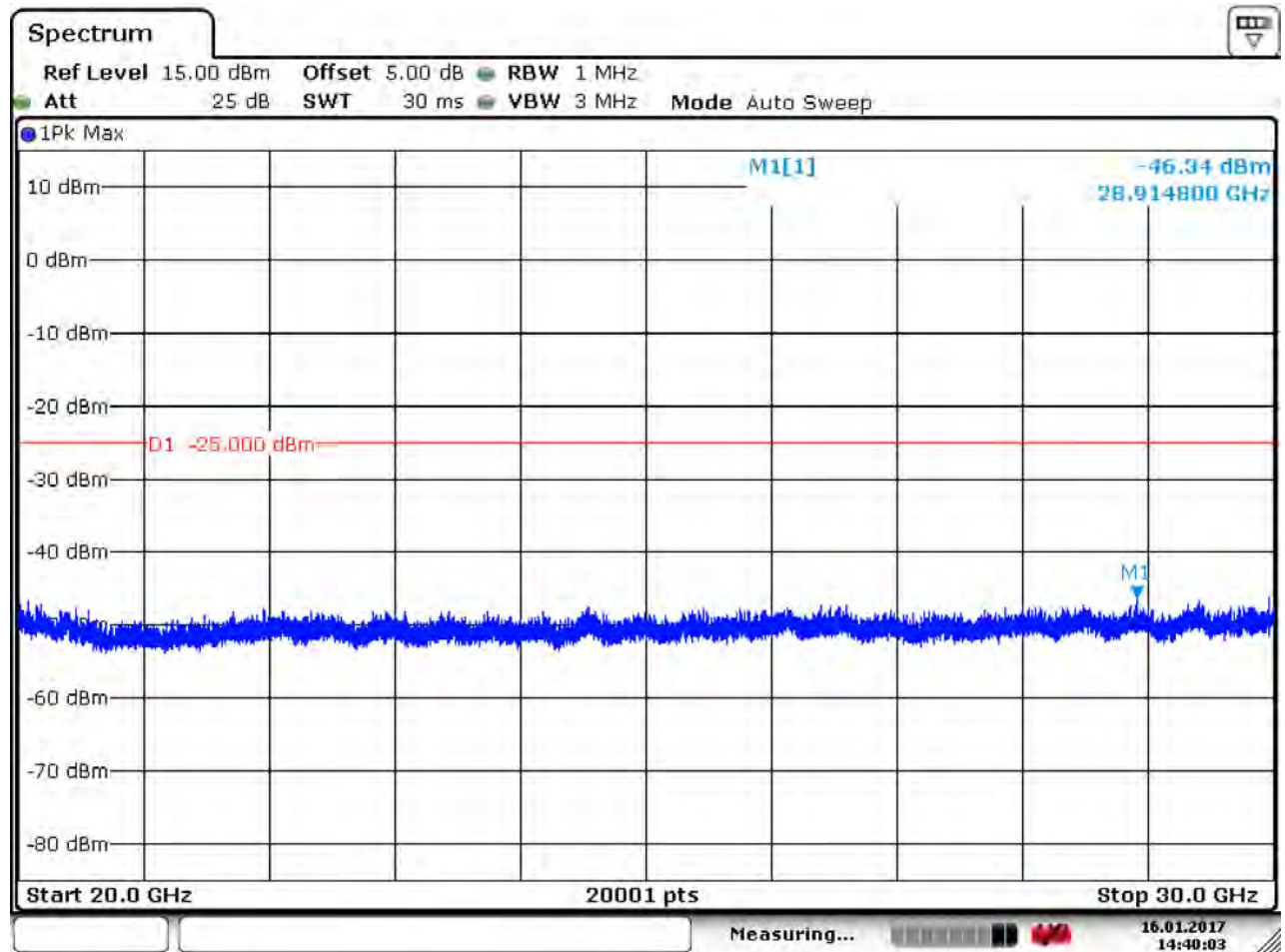
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Date: 16.JAN.2017 14:23:15



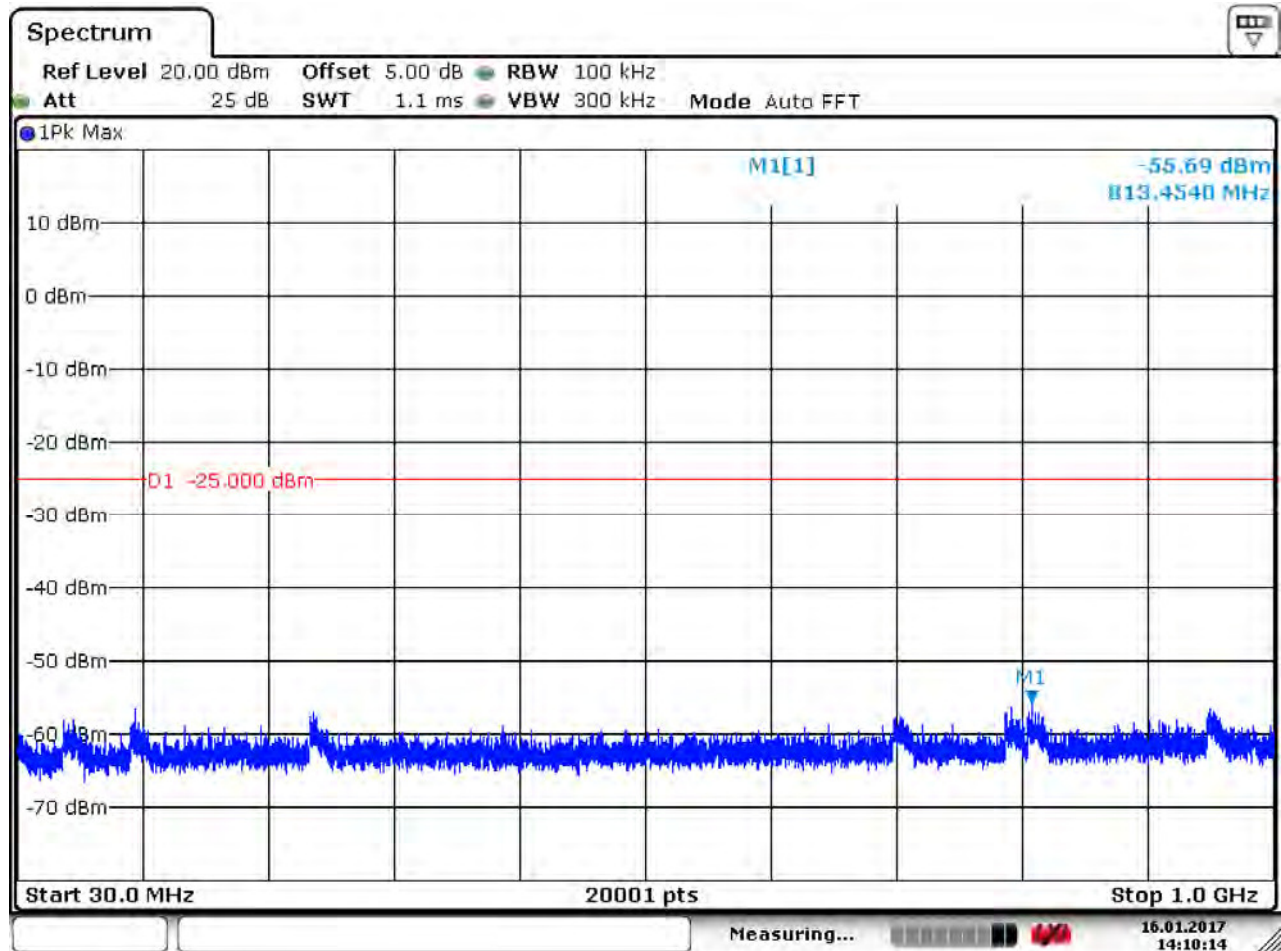
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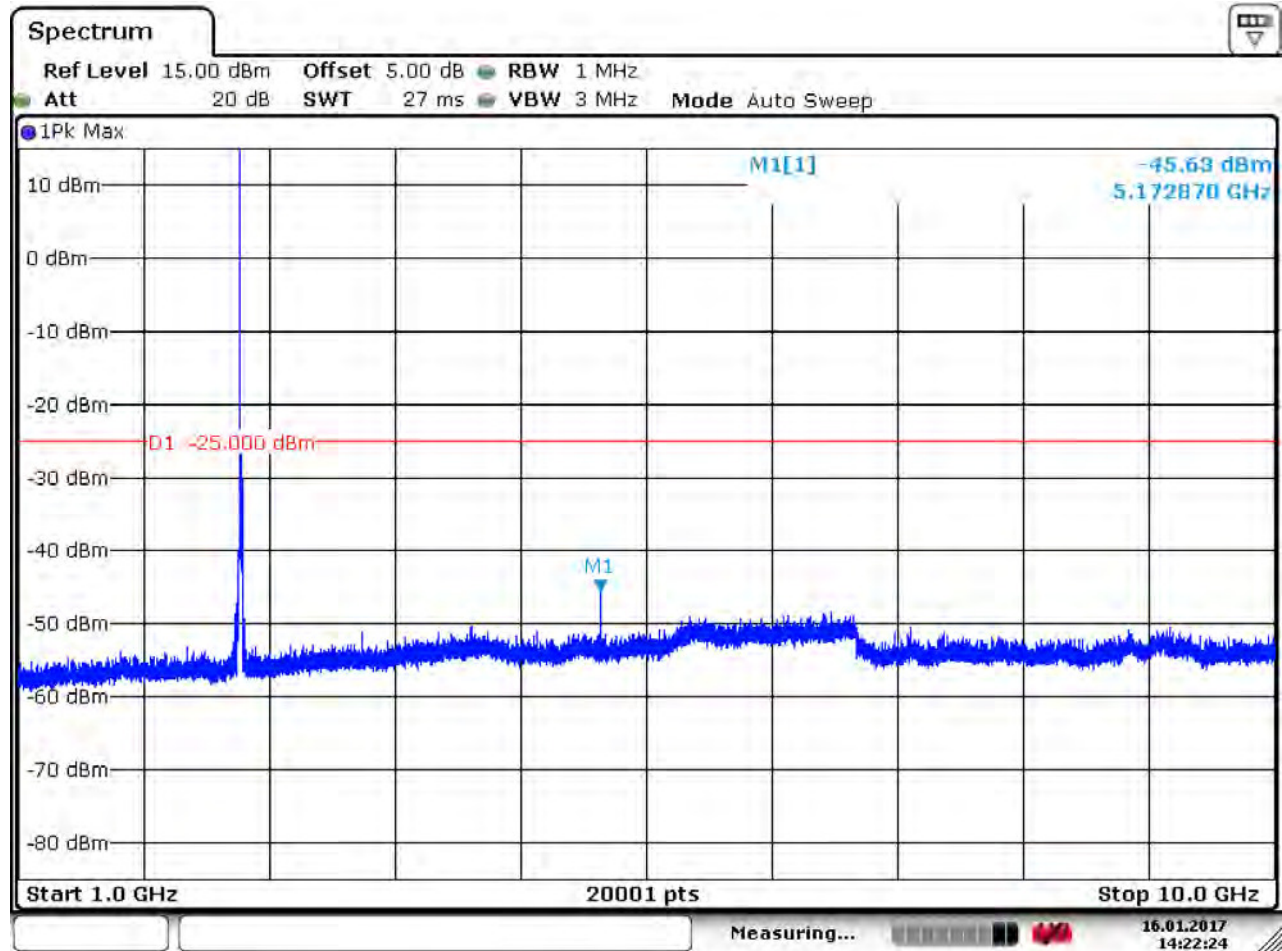
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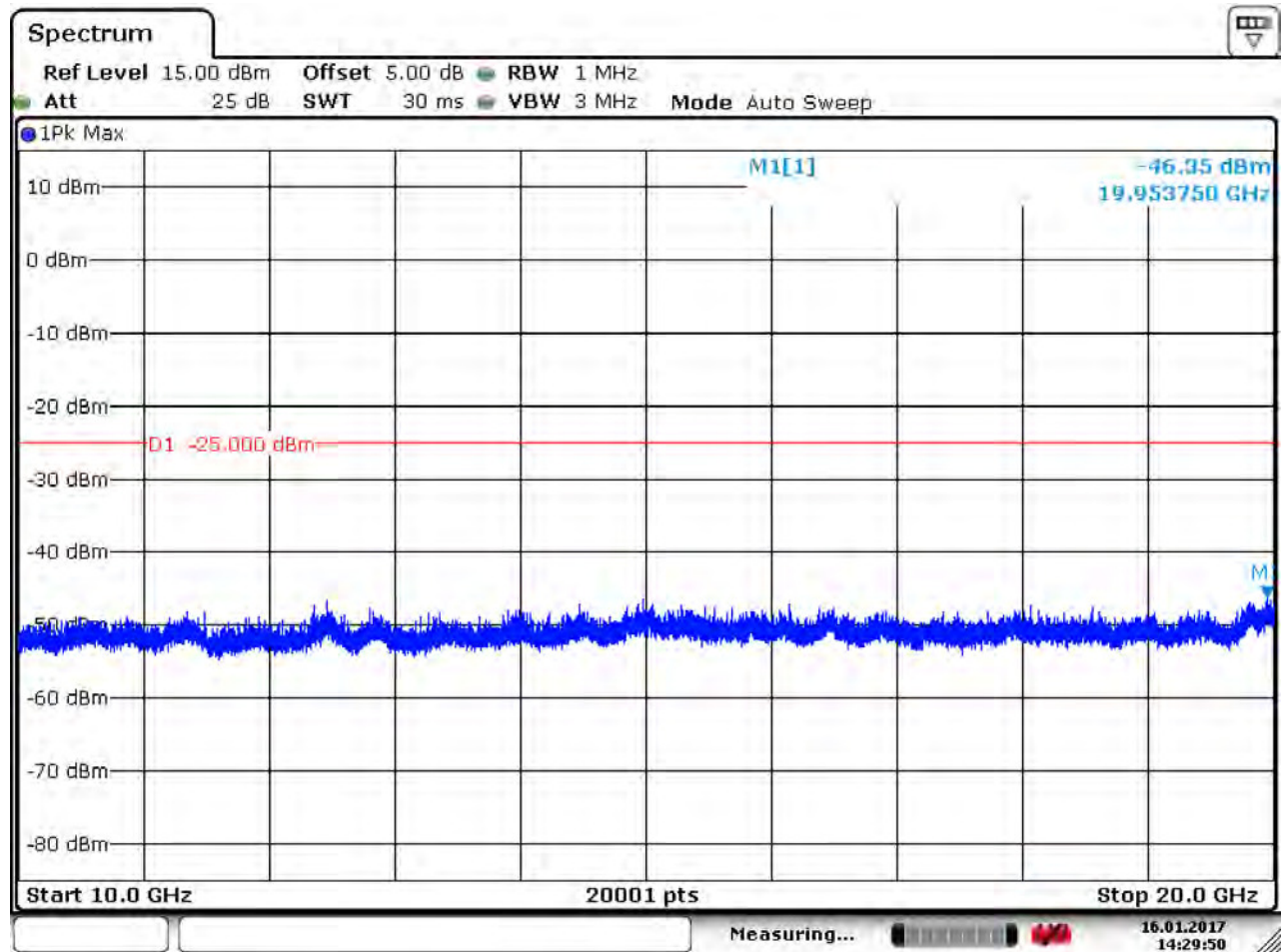
6.1.1.3.2 Test Channel = MCH



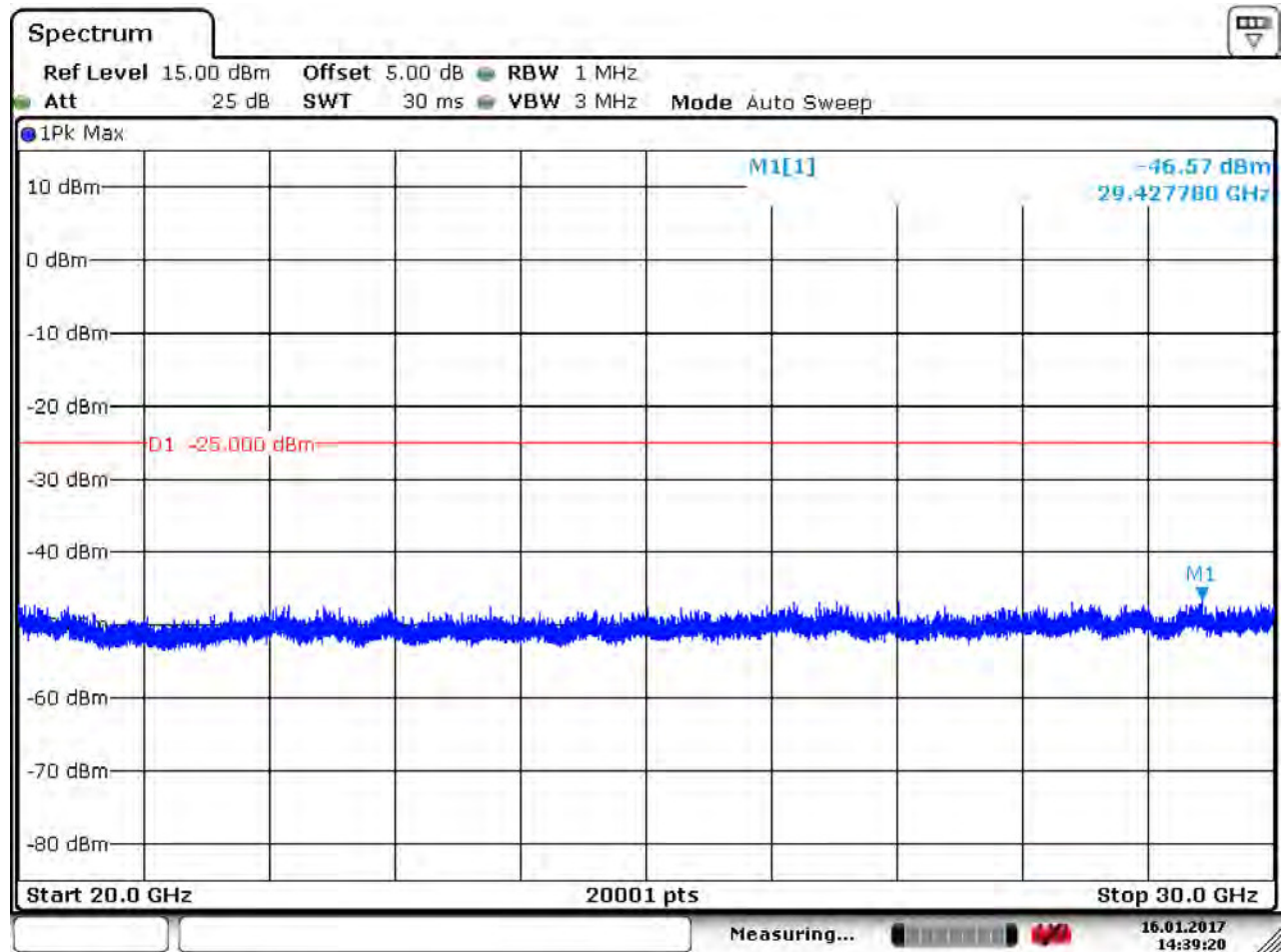
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Date: 16.JAN.2017 14:22:24



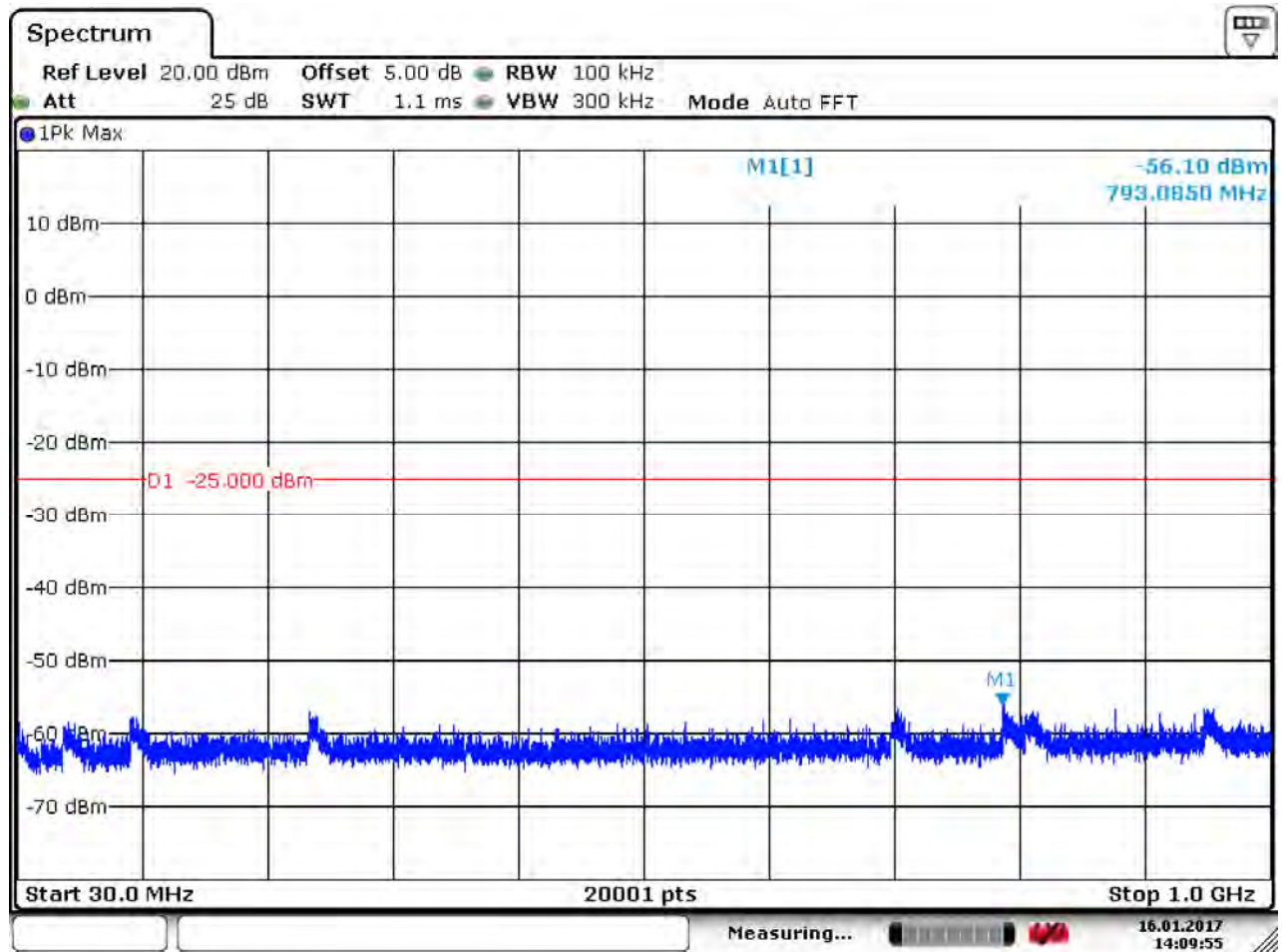
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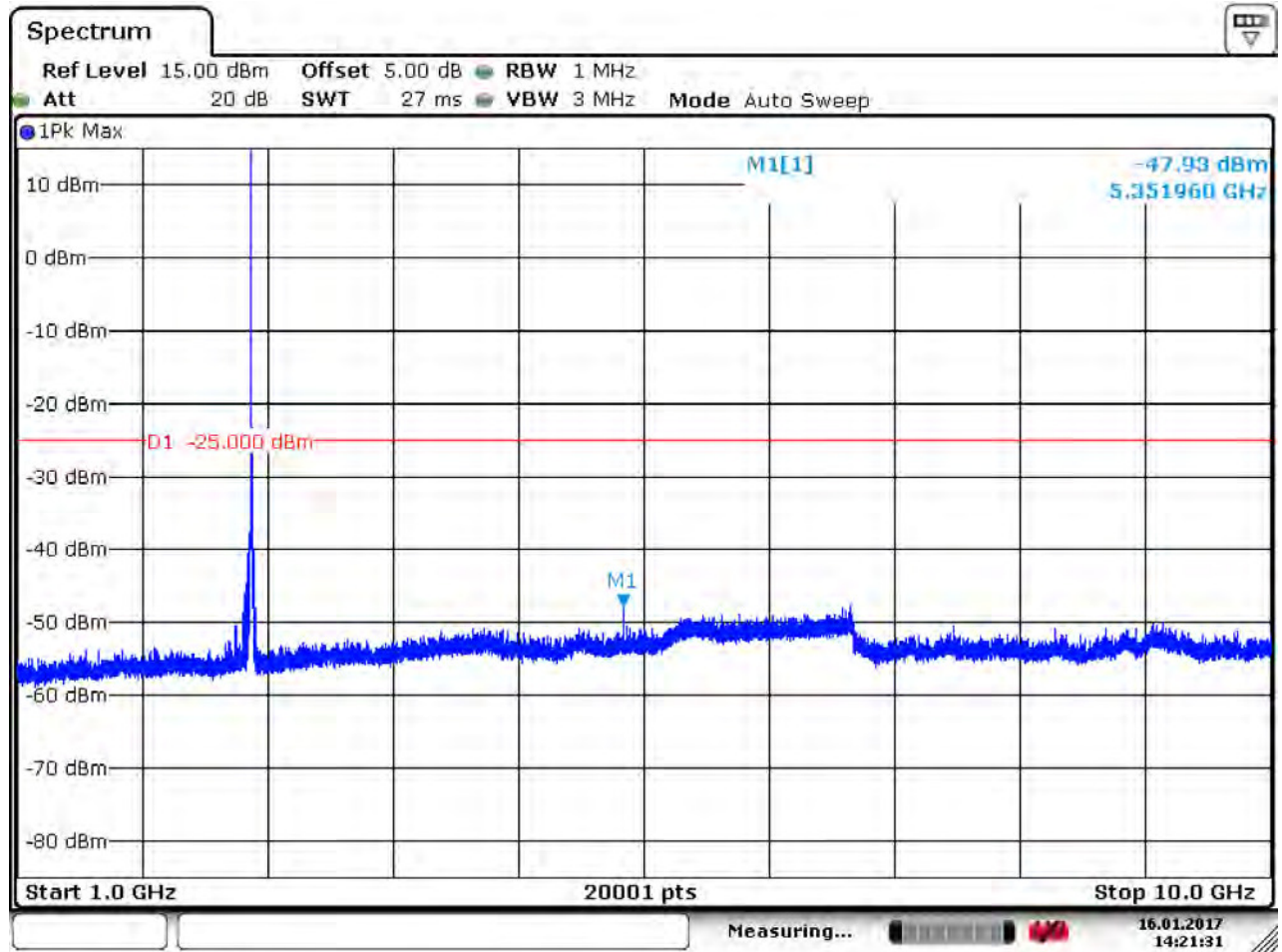
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6.1.1.3.3 Test Channel = HCH



Date: 16.JAN.2017 14:09:55



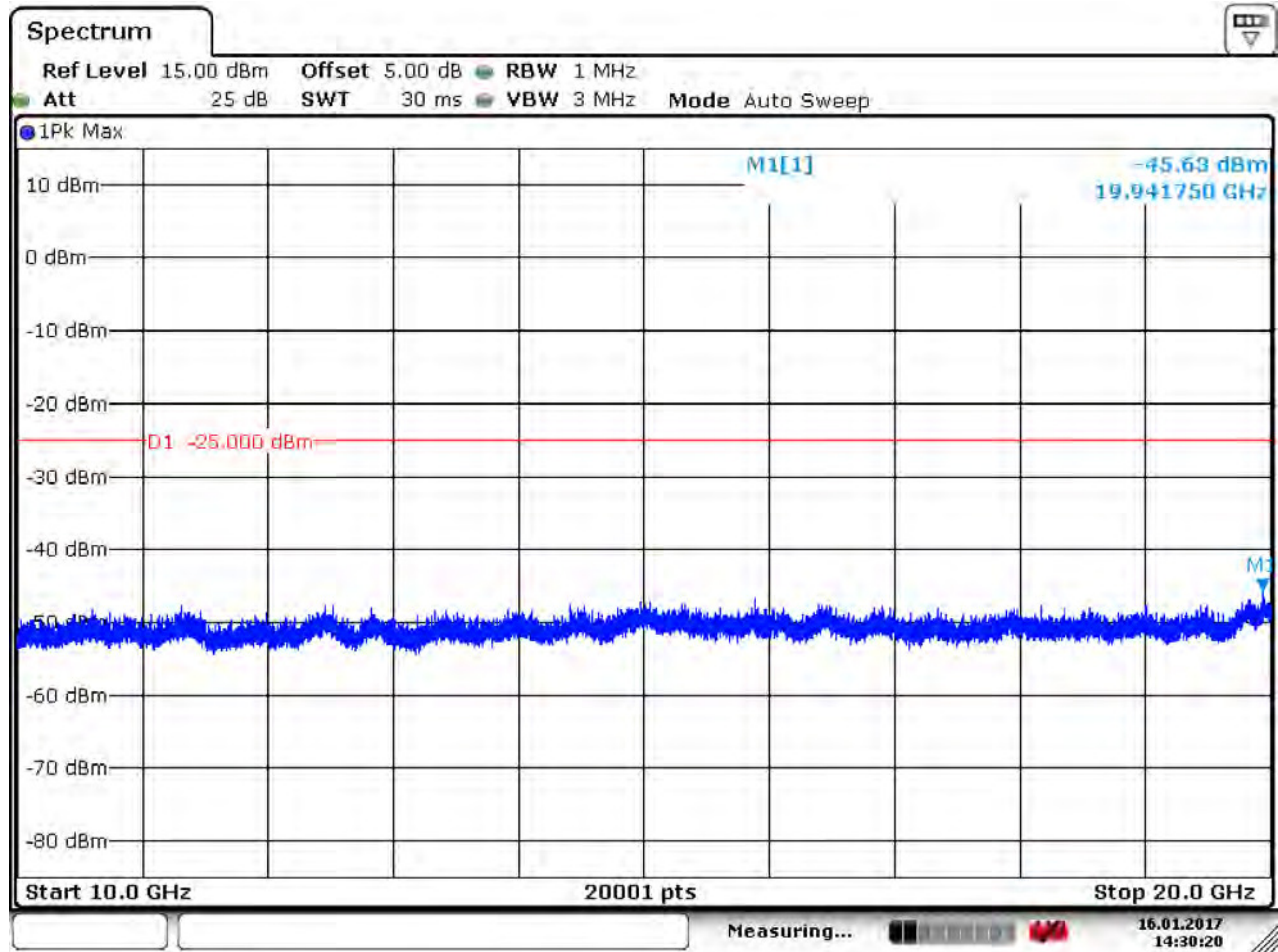
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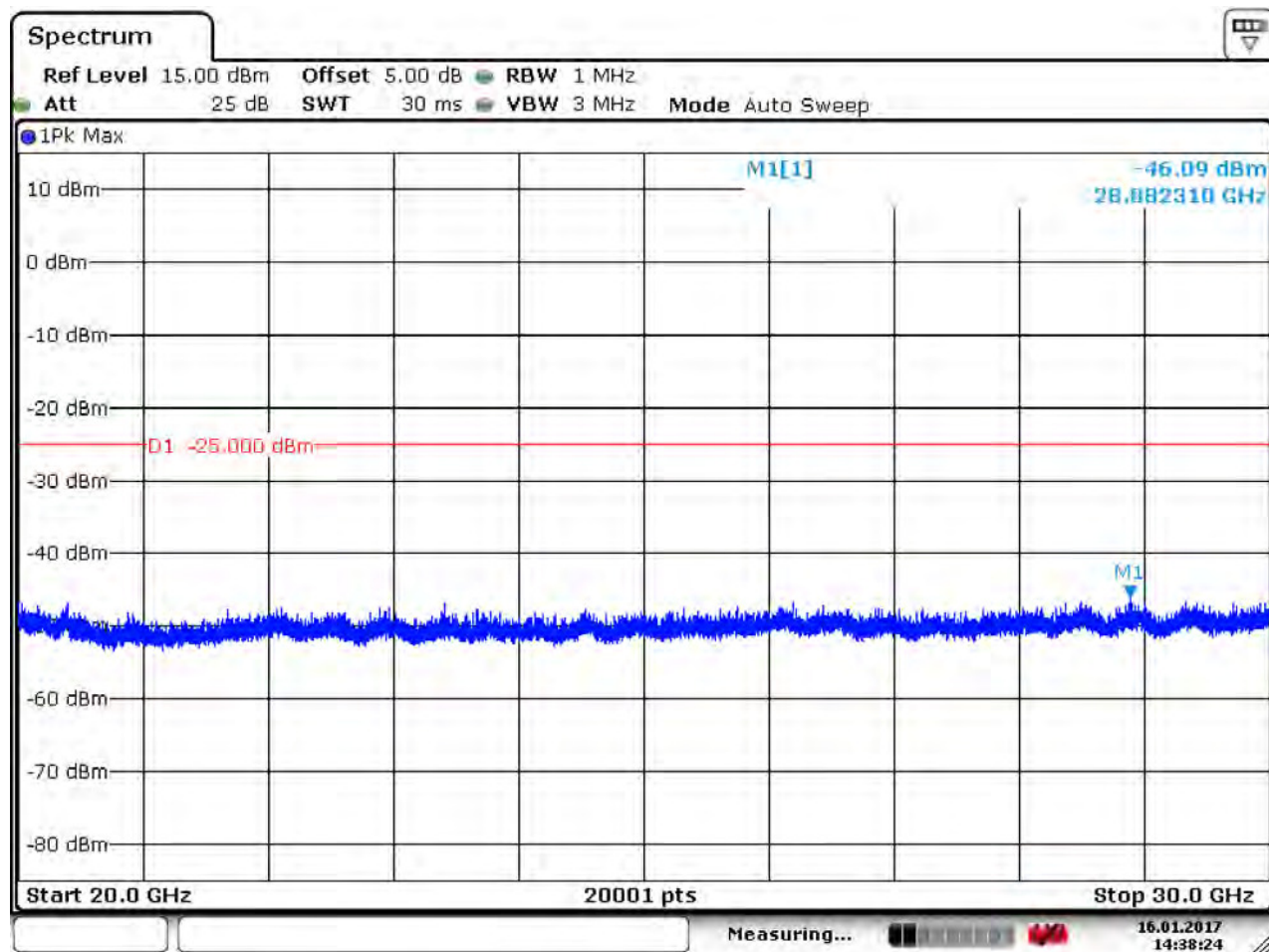
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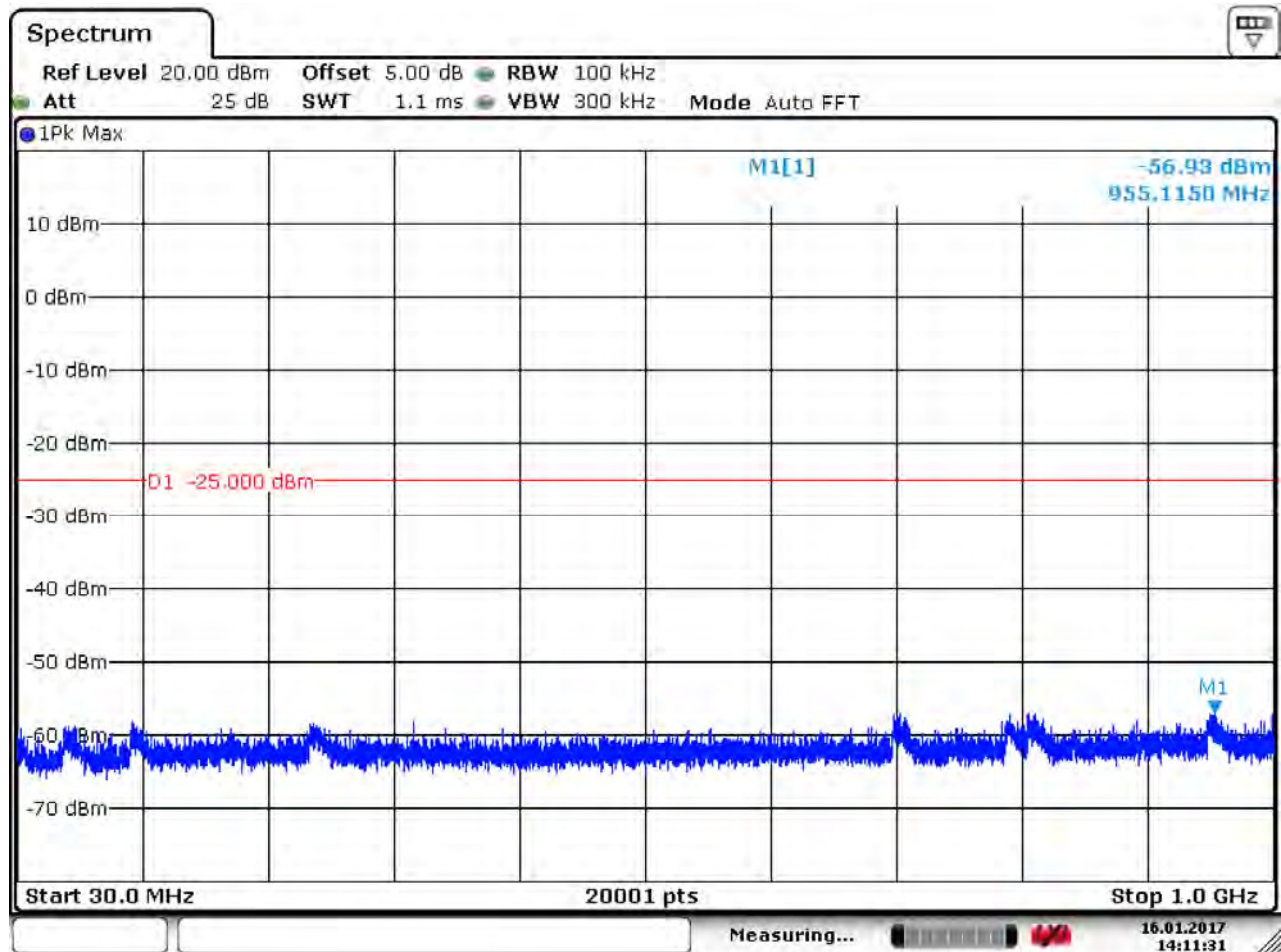


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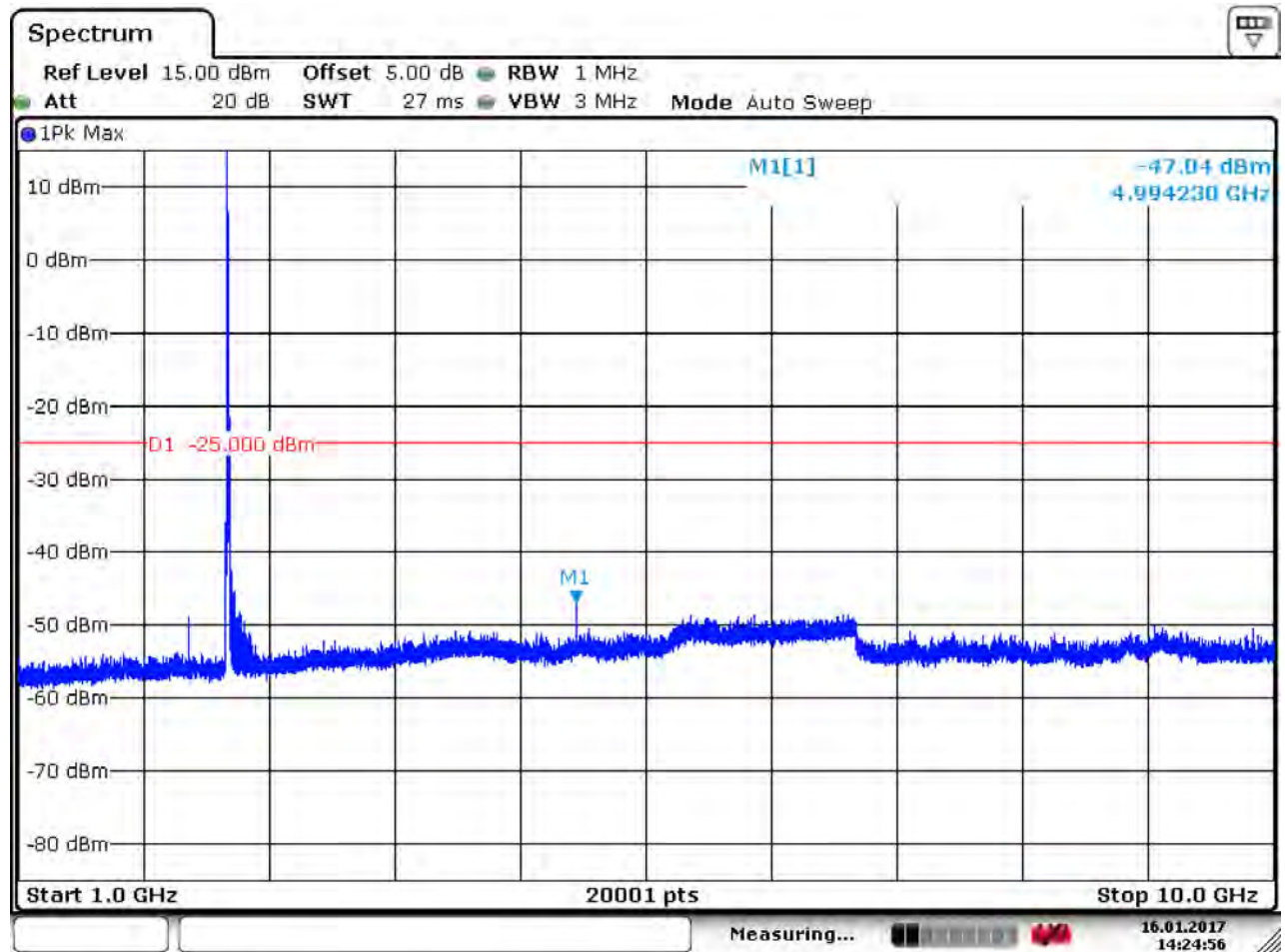


6.1.1.4 Test Mode = LTE / TM1 20MHz RB1#0

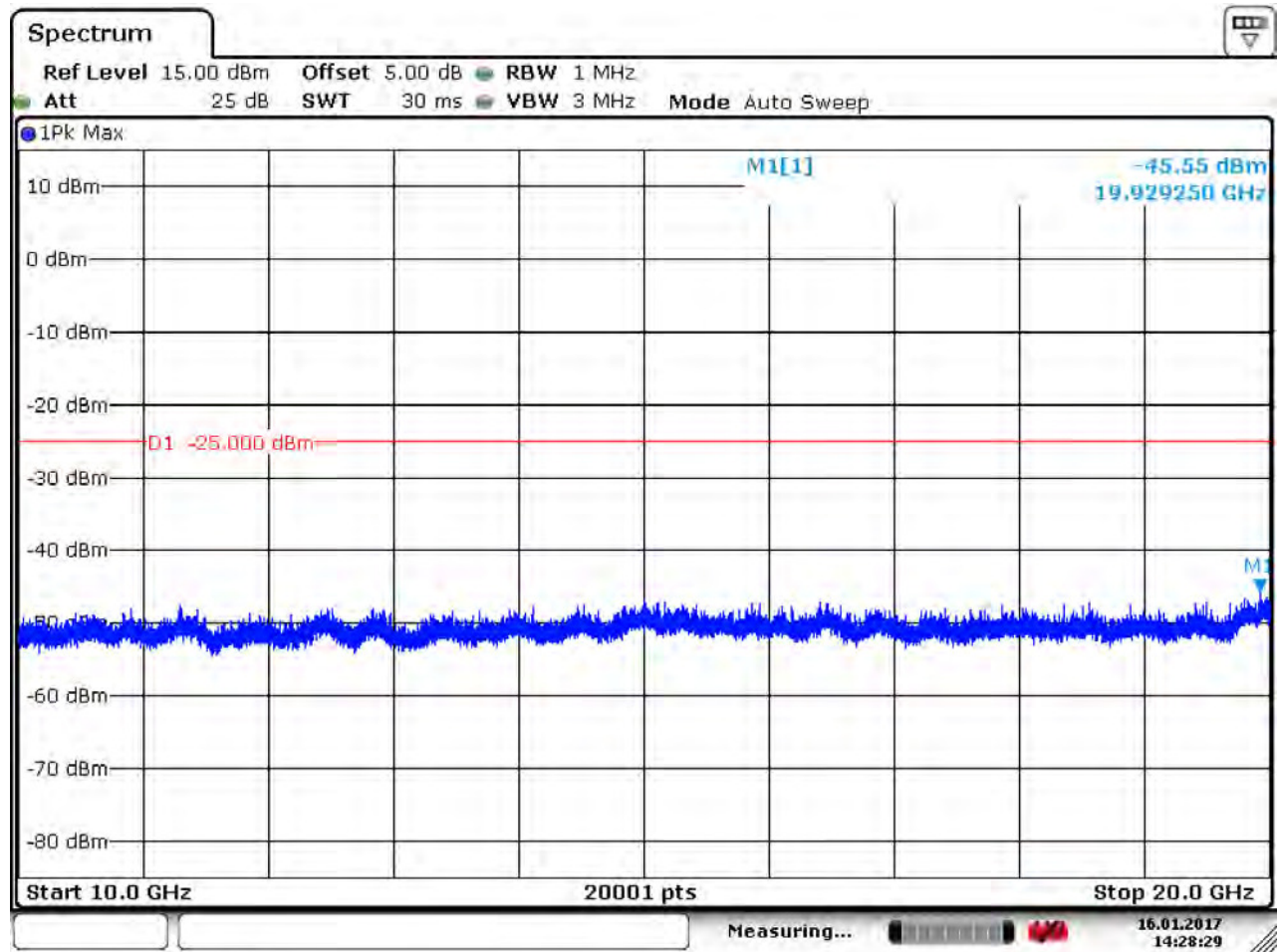
6.1.1.4.1 Test Channel = LCH



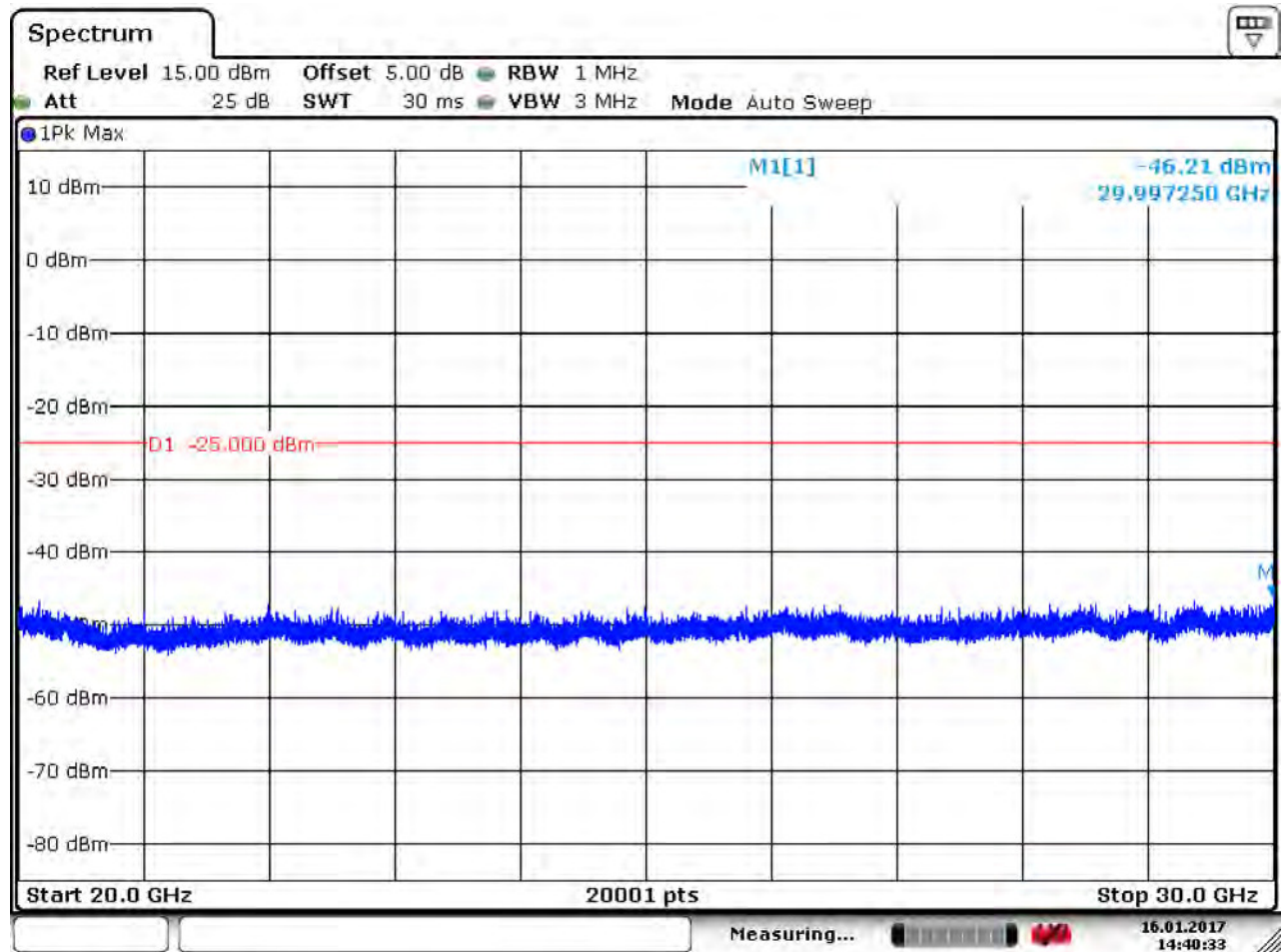
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Date: 16.JAN.2017 14:24:57



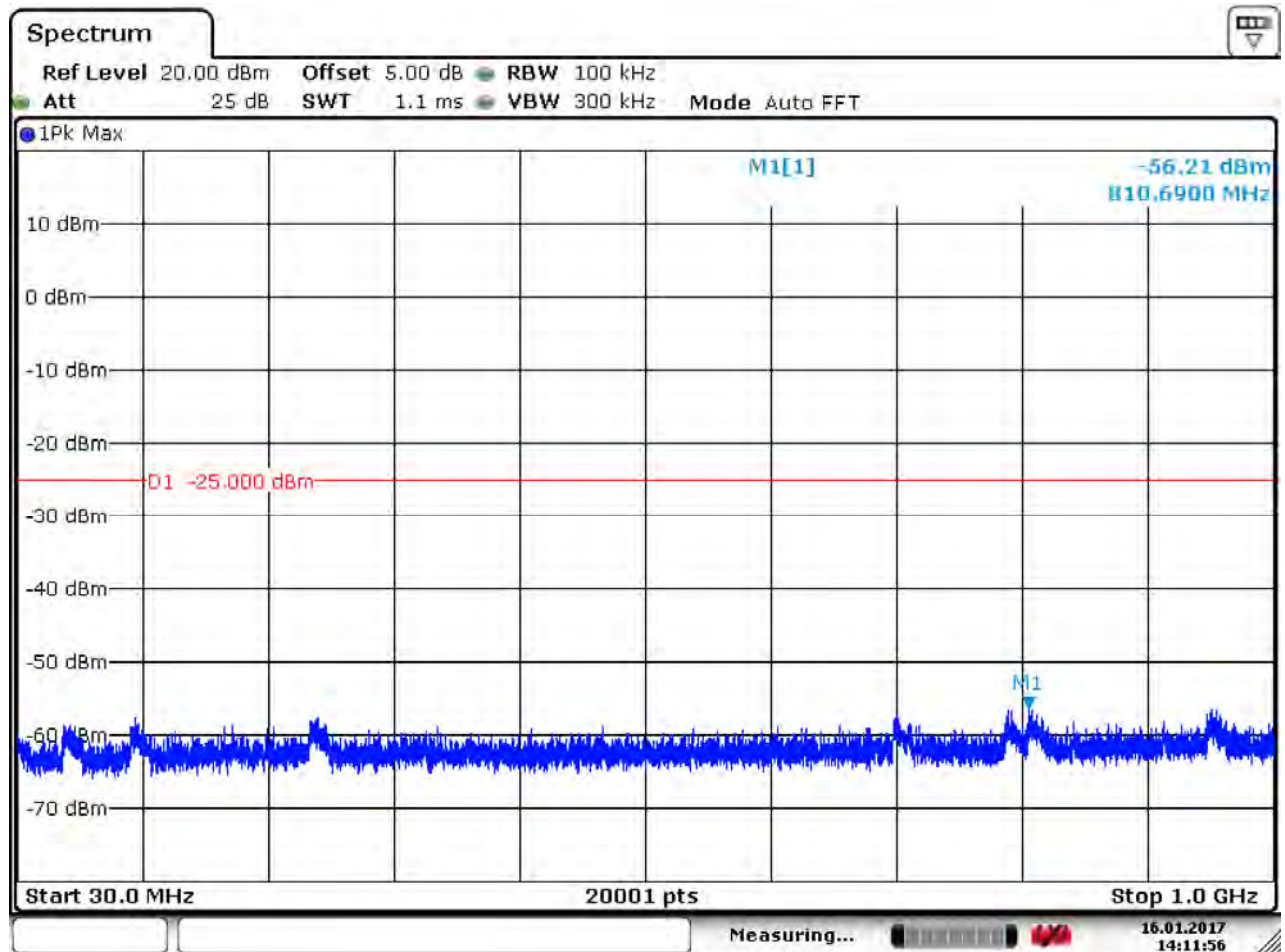
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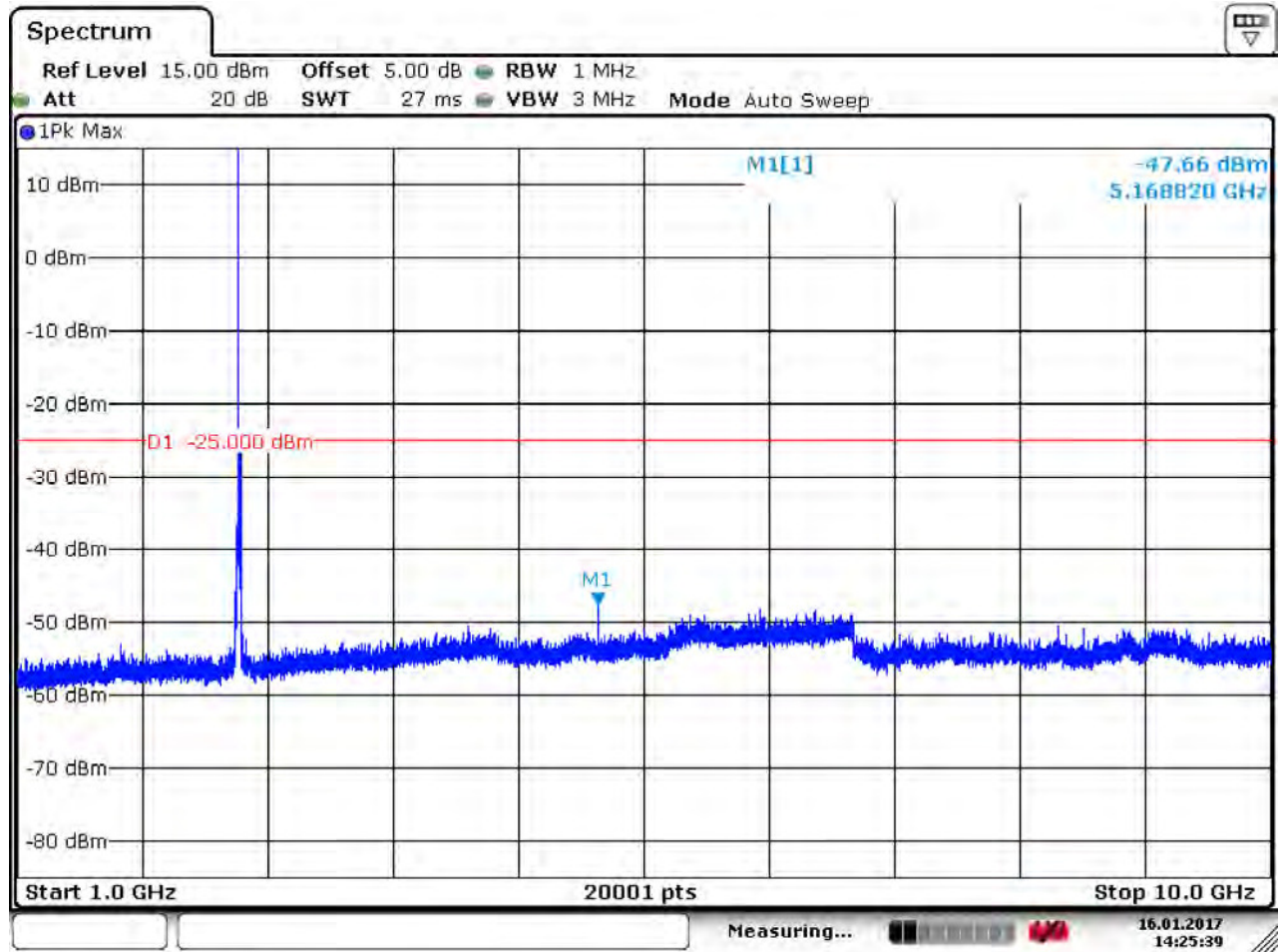
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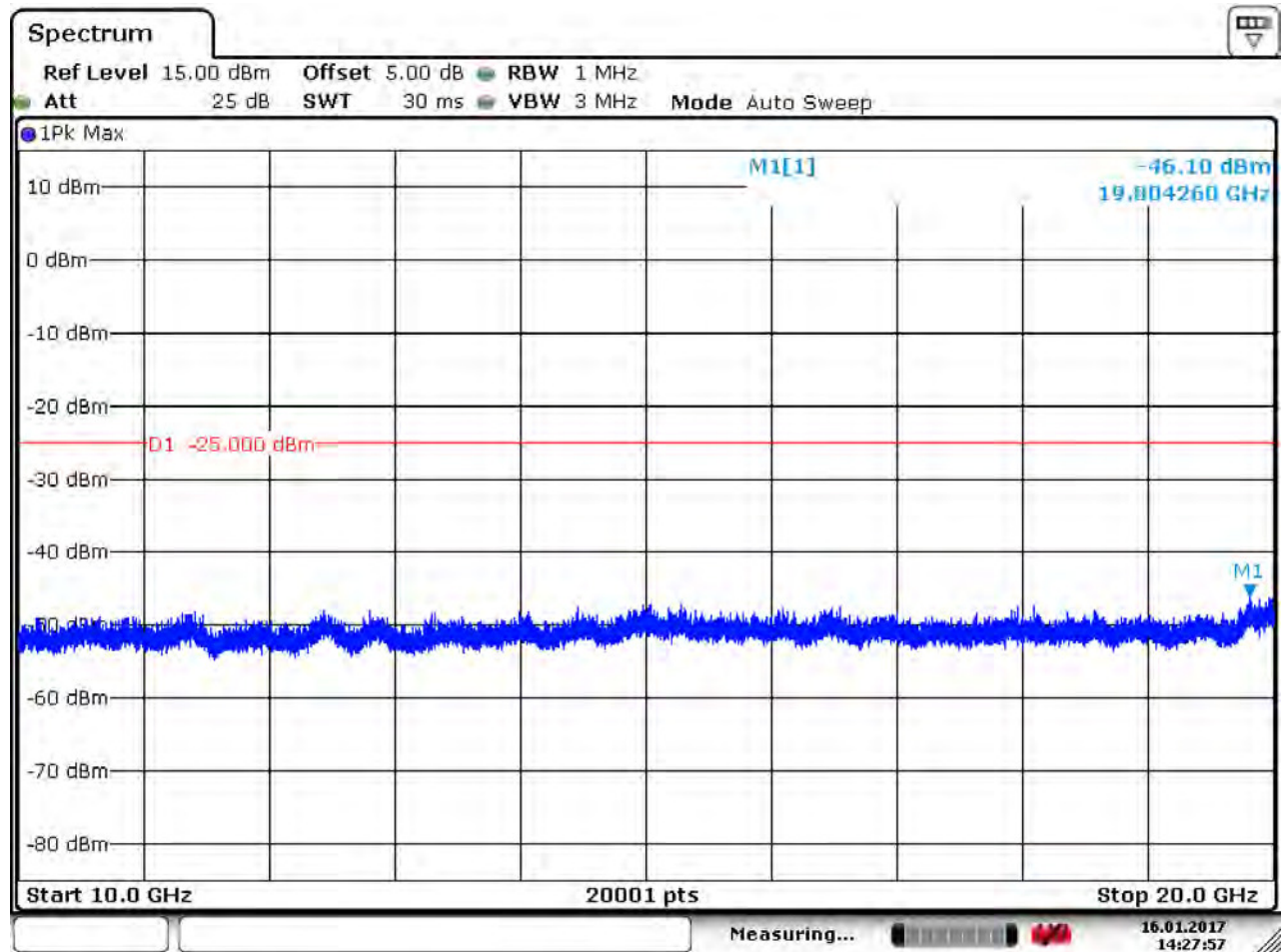
6.1.1.4.2 Test Channel = MCH



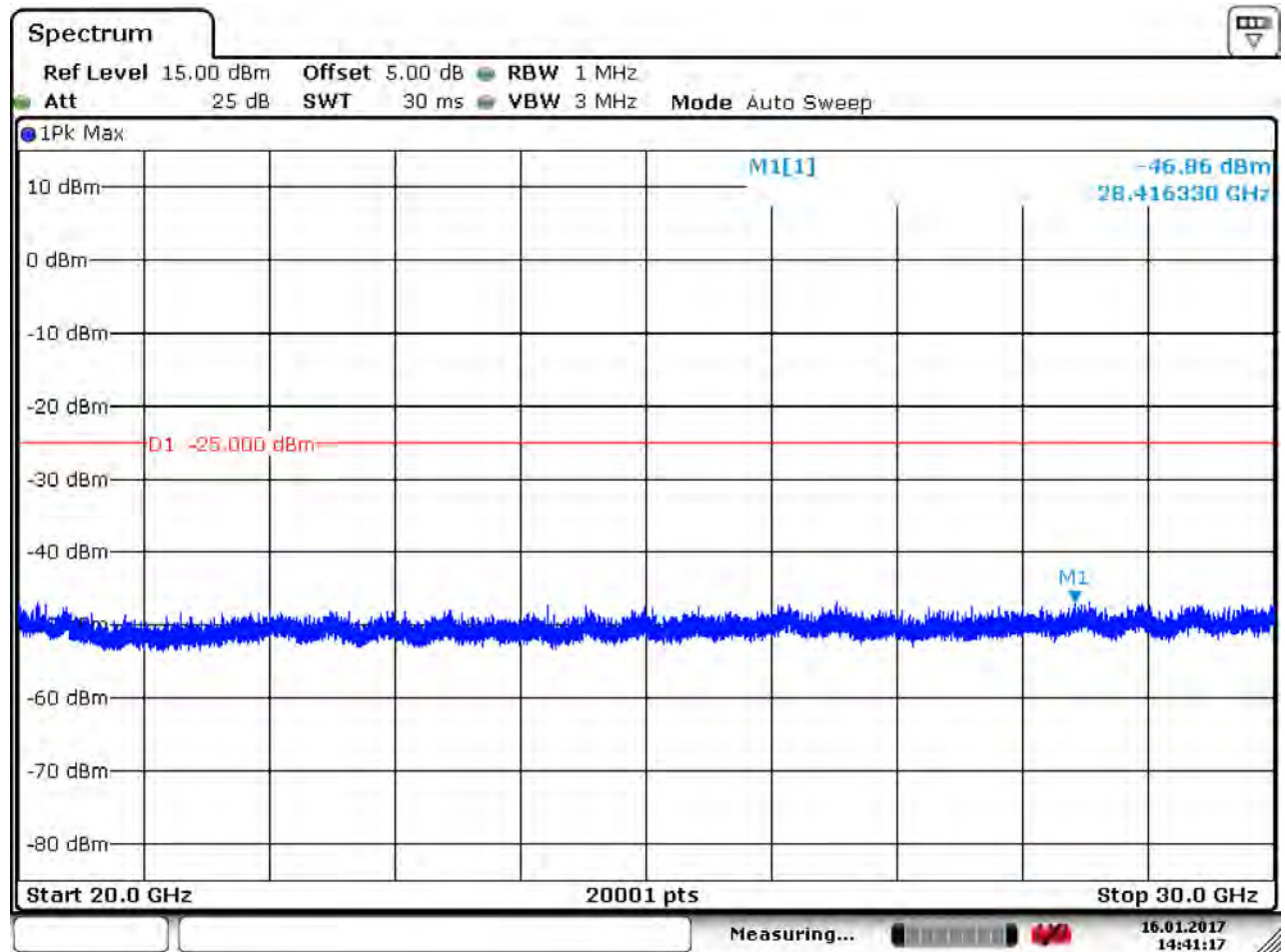
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Date: 16.JAN.2017 14:25:39



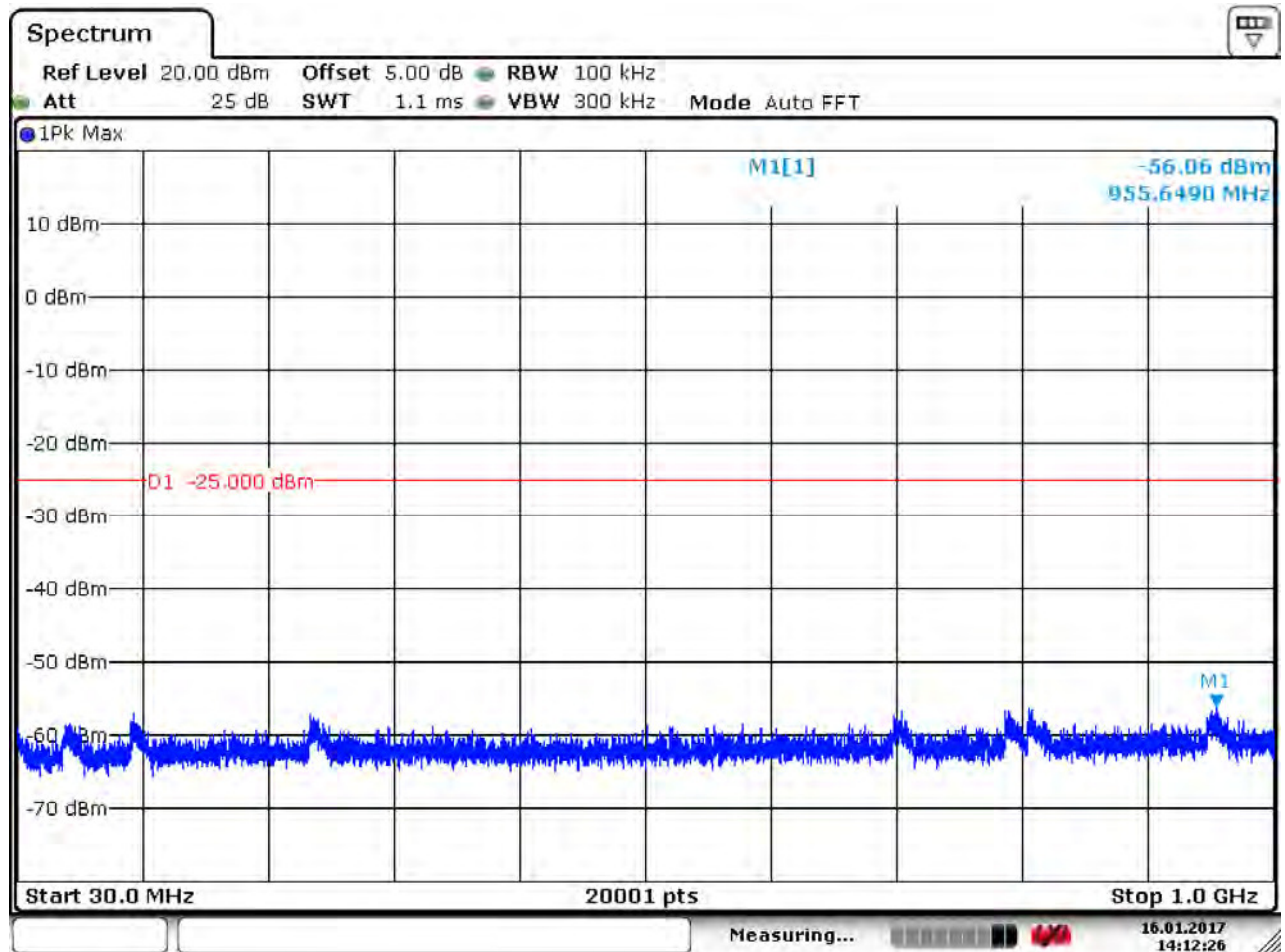
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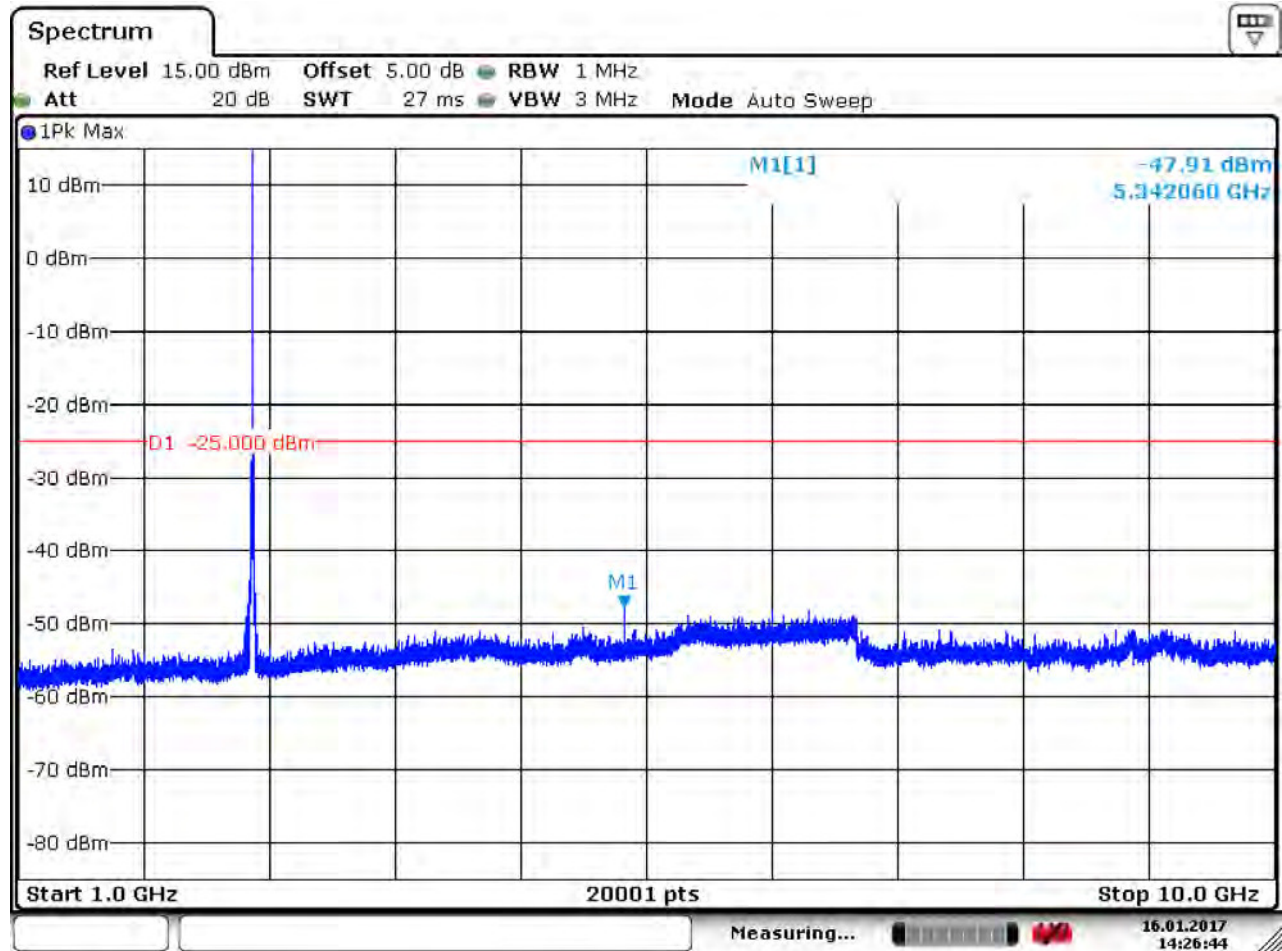
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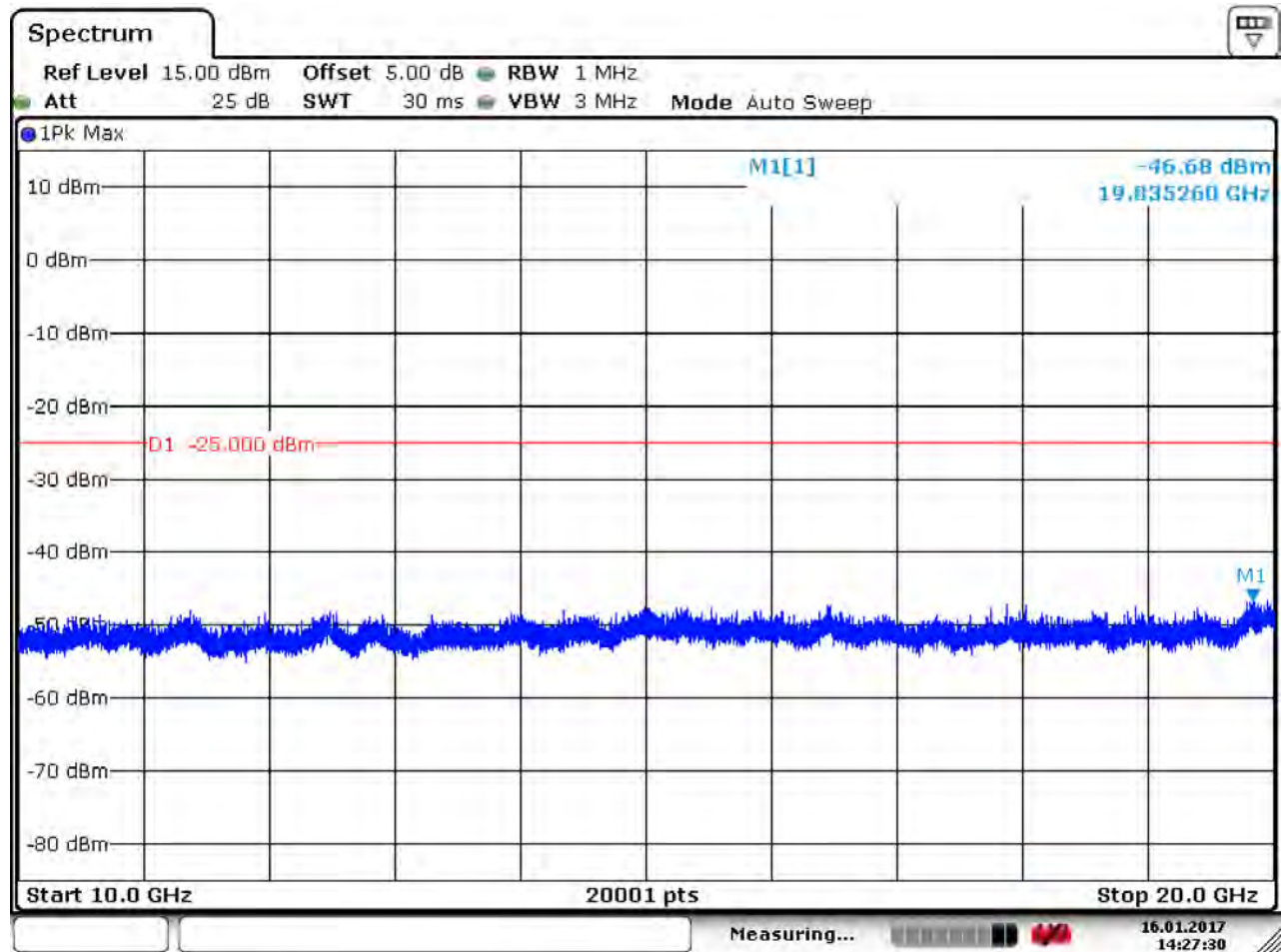
6.1.1.4.3 Test Channel = HCH



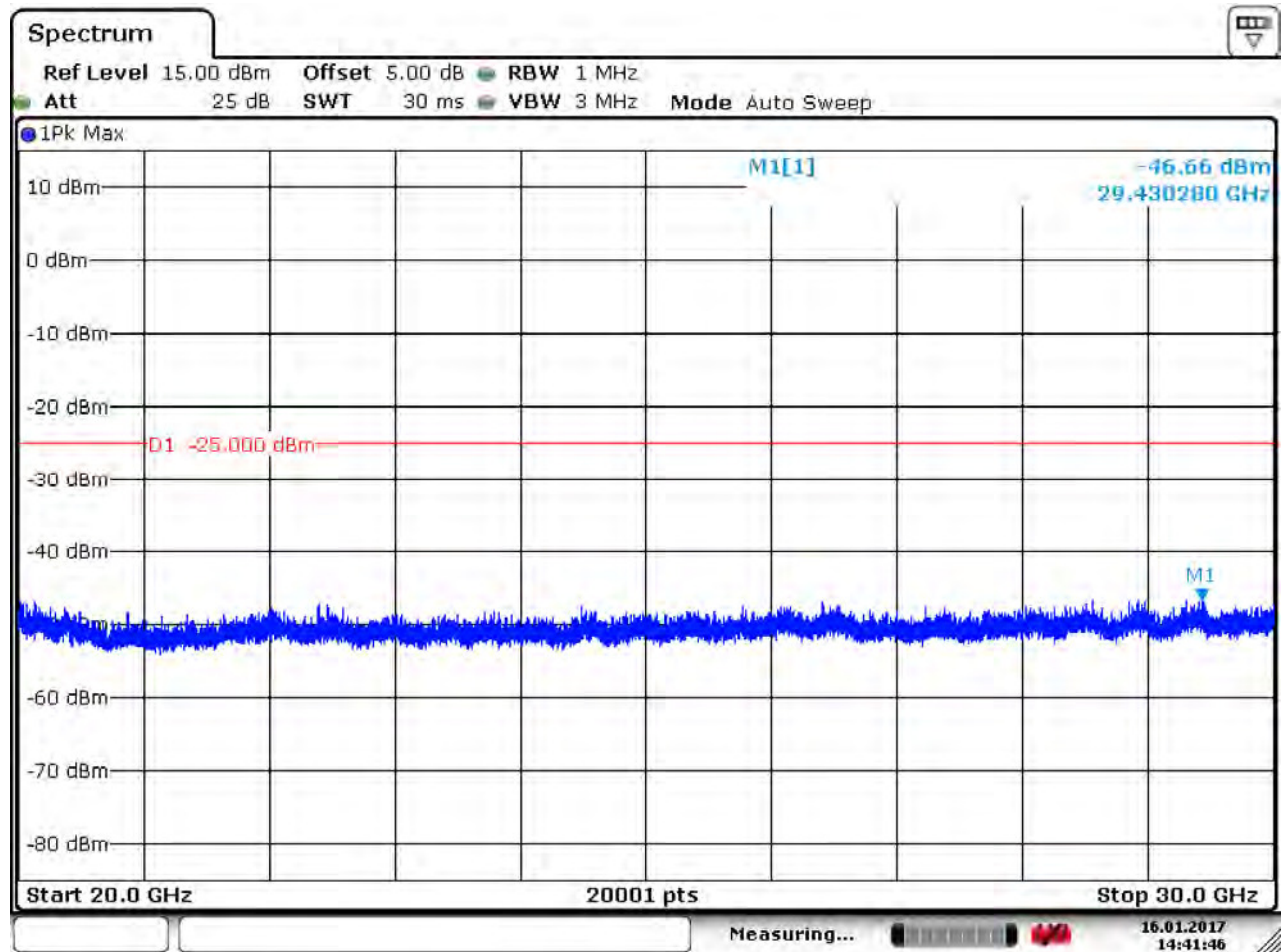
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Date: 16.JAN.2017 14:26:44



Date: 16.JAN.2017 14:27:30



Date: 16.JAN.2017 14:41:46



7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = LTEband41

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2864.000	-50.28	-25.00	-25.28	Vertical
4852.500	-67.42	-25.00	-42.42	Vertical
10605.000	-64.32	-25.00	-39.32	Vertical
2864.000	-56.49	-25.00	-31.49	Horizontal
4950.000	-67.08	-25.00	-42.08	Horizontal
10605.000	-64.36	-25.00	-39.36	Horizontal

Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1199.000	-66.00	-25.00	-41.00	Vertical
2744.000	-57.40	-25.00	-32.40	Vertical
5730.000	-66.96	-25.00	-41.96	Vertical
1100.000	-66.49	-25.00	-41.49	Horizontal
2680.000	-57.37	-25.00	-32.37	Horizontal
5145.000	-67.04	-25.00	-42.04	Horizontal

7.1.1.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1353.000	-67.62	-25.00	-42.62	Vertical
2456.000	-57.64	-25.00	-32.64	Vertical
4267.500	-67.56	-25.00	-42.56	Vertical
1375.000	-67.43	-25.00	-42.43	Horizontal
4462.500	-67.91	-25.00	-42.91	Horizontal
6120.000	-66.00	-25.00	-41.00	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. 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 Band 41	LTE/TM1 20MHz	LCH	TN	VL	4.21	0.00168	PASS
				VN	6.59	0.00263	PASS
				VH	4.05	0.00162	PASS
		MCH	TN	VL	3.35	0.00129	PASS
				VN	-1.58	-0.00061	PASS
				VH	-1.21	-0.00047	PASS
		HCH	TN	VL	-6.84	-0.00255	PASS
				VN	-6.53	-0.00244	PASS
				VH	-1.88	-0.00070	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-1.38	-0.00055	PASS
				VN	3.97	0.00158	PASS
				VH	-4.11	-0.00164	PASS
		MCH	TN	VL	5.08	0.00196	PASS
				VN	-1.83	-0.00071	PASS
				VH	-2.47	-0.00095	PASS
		HCH	TN	VL	-6.54	-0.00244	PASS
				VN	6.37	0.00238	PASS
				VH	4.32	0.00161	PASS
	LTE/TM3 20MHz	LCH	TN	VL	0.17	0.00007	PASS
				VN	-1.87	-0.00074	PASS
				VH	0.67	0.00027	PASS
		MCH	TN	VL	-2.56	-0.00099	PASS
				VN	4.09	0.00158	PASS
				VH	2.35	0.00091	PASS
		HCH	TN	VL	6.62	0.00247	PASS
				VN	1.74	0.00065	PASS
				VH	2.68	0.00100	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
LTE Band 41	LTE/TM1 20MHz	LCH	VN	-30	0.65	0.00026	PASS
				-20	5.53	0.00220	PASS
				-10	1.08	0.00043	PASS
				0	-2.04	-0.00082	PASS
				10	-4.36	-0.00174	PASS
				20	-4.38	-0.00175	PASS
				30	5.93	0.00237	PASS
				40	-4.82	-0.00192	PASS
				50	-4.18	-0.00167	PASS
		MCH	VN	-30	-6.23	-0.00240	PASS
				-20	-1.93	-0.00075	PASS
				-10	3.48	0.00134	PASS
				0	3.65	0.00141	PASS
				10	-3.32	-0.00128	PASS
				20	2.76	0.00107	PASS
				30	3.38	0.00131	PASS
				40	2.19	0.00084	PASS
				50	0.07	0.00003	PASS
		HCH	VN	-30	-1.90	-0.00071	PASS
				-20	-1.05	-0.00039	PASS
				-10	3.76	0.00140	PASS
				0	5.83	0.00218	PASS
				10	3.56	0.00133	PASS
				20	3.87	0.00144	PASS
				30	-1.71	-0.00064	PASS
				40	-6.57	-0.00245	PASS
				50	-6.30	-0.00235	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE Band 41	LTE/TM2 20MHz	LCH	VN	-30	-1.67	-0.00067	PASS
				-20	0.85	0.00034	PASS
				-10	-2.61	-0.00104	PASS
				0	0.41	0.00017	PASS
				10	2.17	0.00087	PASS
				20	3.44	0.00137	PASS
				30	6.68	0.00266	PASS
				40	2.20	0.00088	PASS
				50	0.00	0.00000	PASS
		MCH	VN	-30	-2.26	-0.00087	PASS
				-20	-3.94	-0.00152	PASS
				-10	-0.30	-0.00012	PASS
				0	-5.90	-0.00228	PASS
				10	-4.66	-0.00180	PASS
				20	5.74	0.00222	PASS
				30	-5.22	-0.00201	PASS
				40	-1.97	-0.00076	PASS
				50	-0.52	-0.00020	PASS
		HCH	VN	-30	6.82	0.00254	PASS
				-20	2.10	0.00078	PASS
				-10	-4.30	-0.00160	PASS
				0	6.35	0.00237	PASS
				10	-1.72	-0.00064	PASS
				20	-4.98	-0.00186	PASS
				30	1.53	0.00057	PASS
				40	-4.68	-0.00174	PASS
				50	-5.85	-0.00218	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE Band 41	LTE/TM3 20MHz	LCH	VN	-30	5.63	0.00225	PASS
				-20	0.97	0.00039	PASS
				-10	-2.62	-0.00105	PASS
				0	2.65	0.00106	PASS
				10	0.47	0.00019	PASS
				20	0.54	0.00022	PASS
				30	5.28	0.00211	PASS
				40	1.65	0.00066	PASS
				50	3.16	0.00126	PASS
		MCH	VN	-30	-3.37	-0.00130	PASS
				-20	-6.24	-0.00241	PASS
				-10	1.98	0.00076	PASS
				0	1.51	0.00058	PASS
				10	2.51	0.00097	PASS
				20	0.69	0.00026	PASS
				30	-5.71	-0.00220	PASS
				40	-3.41	-0.00132	PASS
				50	-4.86	-0.00187	PASS
		HCH	VN	-30	6.24	0.00233	PASS
				-20	2.17	0.00081	PASS
				-10	-5.32	-0.00199	PASS
				0	-6.54	-0.00244	PASS
				10	3.26	0.00122	PASS
				20	-6.69	-0.00250	PASS
				30	1.41	0.00053	PASS
				40	3.90	0.00146	PASS
				50	-5.41	-0.00202	PASS

The End

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