



Appendix B

Test Data for SZEM161000916605RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 2

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	1.4M	LCH	RB1#0	24.01	26.24	33.00	PASS
				RB1#2	24.05	26.28	33.00	PASS
				RB1#5	24.25	26.48	33.00	PASS
				RB3#0	24.01	26.24	33.00	PASS
				RB3#2	24.06	26.29	33.00	PASS
				RB3#3	24.22	26.45	33.00	PASS
				RB6#0	23.23	25.46	33.00	PASS
			MCH	RB1#0	24.81	27.04	33.00	PASS
				RB1#2	24.86	27.09	33.00	PASS
				RB1#5	24.79	27.02	33.00	PASS
				RB3#0	24.92	27.15	33.00	PASS
				RB3#2	24.85	27.08	33.00	PASS
				RB3#3	24.91	27.14	33.00	PASS
				RB6#0	23.88	26.11	33.00	PASS
			HCH	RB1#0	24.63	26.86	33.00	PASS
				RB1#2	24.69	26.92	33.00	PASS
				RB1#5	24.59	26.82	33.00	PASS
				RB3#0	24.74	26.97	33.00	PASS
				RB3#2	24.72	26.95	33.00	PASS
				RB3#3	24.71	26.94	33.00	PASS
				RB6#0	23.75	25.98	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
BAND2	LTE/TM2	1.4M	LCH	RB1#0	23.17	25.40	33.00	PASS
				RB1#2	23.33	25.56	33.00	PASS
				RB1#5	23.61	25.84	33.00	PASS
				RB3#0	23.11	25.34	33.00	PASS
				RB3#2	23.12	25.35	33.00	PASS
				RB3#3	23.28	25.51	33.00	PASS
				RB6#0	22.31	24.54	33.00	PASS
			MCH	RB1#0	23.97	26.20	33.00	PASS
				RB1#2	24.09	26.32	33.00	PASS
				RB1#5	23.96	26.19	33.00	PASS
				RB3#0	23.86	26.09	33.00	PASS
				RB3#2	23.80	26.03	33.00	PASS
				RB3#3	23.85	26.08	33.00	PASS
				RB6#0	22.93	25.16	33.00	PASS
			HCH	RB1#0	23.62	25.85	33.00	PASS
				RB1#2	23.66	25.89	33.00	PASS
				RB1#5	23.57	25.80	33.00	PASS
				RB3#0	23.55	25.78	33.00	PASS
				RB3#2	23.48	25.71	33.00	PASS
				RB3#3	23.52	25.75	33.00	PASS
				RB6#0	22.68	24.91	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
BAND2	LTE/TM1	3M	LCH	RB1#0	23.86	26.09	33.00	PASS
				RB1#7	24.22	26.45	33.00	PASS
				RB1#14	24.75	26.98	33.00	PASS
				RB8#0	23.25	25.48	33.00	PASS
				RB8#4	23.51	25.74	33.00	PASS
				RB8#7	23.74	25.97	33.00	PASS
				RB15#0	23.47	25.70	33.00	PASS
			MCH	RB1#0	24.82	27.05	33.00	PASS
				RB1#7	24.84	27.07	33.00	PASS
				RB1#14	24.78	27.01	33.00	PASS
				RB8#0	23.94	26.17	33.00	PASS
				RB8#4	23.95	26.18	33.00	PASS
				RB8#7	23.94	26.17	33.00	PASS
				RB15#0	23.95	26.18	33.00	PASS
			HCH	RB1#0	24.72	26.95	33.00	PASS
				RB1#7	24.71	26.94	33.00	PASS
				RB1#14	24.57	26.80	33.00	PASS
				RB8#0	23.82	26.05	33.00	PASS
				RB8#4	23.80	26.03	33.00	PASS
				RB8#7	23.75	25.98	33.00	PASS
				RB15#0	23.80	26.03	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
BAND2	LTE/TM2	3M	LCH	RB1#0	23.21	25.44	33.00	PASS
				RB1#7	23.69	25.92	33.00	PASS
				RB1#14	24.10	26.33	33.00	PASS
				RB8#0	22.40	24.63	33.00	PASS
				RB8#4	22.69	24.92	33.00	PASS
				RB8#7	22.93	25.16	33.00	PASS
				RB15#0	22.63	24.86	33.00	PASS
			MCH	RB1#0	23.97	26.20	33.00	PASS
				RB1#7	23.99	26.22	33.00	PASS
				RB1#14	23.93	26.16	33.00	PASS
				RB8#0	22.95	25.18	33.00	PASS
				RB8#4	22.94	25.17	33.00	PASS
				RB8#7	22.94	25.17	33.00	PASS
				RB15#0	22.91	25.14	33.00	PASS
			HCH	RB1#0	23.71	25.94	33.00	PASS
				RB1#7	23.67	25.90	33.00	PASS
				RB1#14	23.52	25.75	33.00	PASS
				RB8#0	22.73	24.96	33.00	PASS
				RB8#4	22.70	24.93	33.00	PASS
				RB8#7	22.65	24.88	33.00	PASS
				RB15#0	22.70	24.93	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
BAND2	LTE/TM1	5M	LCH	RB1#0	23.89	26.12	33.00	PASS
				RB1#13	24.35	26.58	33.00	PASS
				RB1#24	25.04	27.27	33.00	PASS
				RB12#0	23.14	25.37	33.00	PASS
				RB12#6	23.49	25.72	33.00	PASS
				RB12#13	24.03	26.26	33.00	PASS
				RB25#0	23.58	25.81	33.00	PASS
			MCH	RB1#0	24.89	27.12	33.00	PASS
				RB1#13	24.86	27.09	33.00	PASS
				RB1#24	24.82	27.05	33.00	PASS
				RB12#0	24.00	26.23	33.00	PASS
				RB12#6	23.97	26.20	33.00	PASS
				RB12#13	23.98	26.21	33.00	PASS
				RB25#0	23.96	26.19	33.00	PASS
			HCH	RB1#0	24.83	27.06	33.00	PASS
				RB1#13	24.74	26.97	33.00	PASS
				RB1#24	24.58	26.81	33.00	PASS
				RB12#0	23.89	26.12	33.00	PASS
				RB12#6	23.83	26.06	33.00	PASS
				RB12#13	23.77	26.00	33.00	PASS
				RB25#0	23.87	26.10	33.00	PASS

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BAND2	LTE/TM2	5M	LCH	RB1#0	23.19	25.42	33.00	PASS
				RB1#13	23.68	25.91	33.00	PASS
				RB1#24	24.18	26.41	33.00	PASS
				RB12#0	22.17	24.40	33.00	PASS
				RB12#6	22.52	24.75	33.00	PASS
				RB12#13	23.15	25.38	33.00	PASS
				RB25#0	22.63	24.86	33.00	PASS
			MCH	RB1#0	24.07	26.30	33.00	PASS
				RB1#13	24.08	26.31	33.00	PASS
				RB1#24	24.02	26.25	33.00	PASS
				RB12#0	23.00	25.23	33.00	PASS
				RB12#6	22.96	25.19	33.00	PASS
				RB12#13	22.97	25.20	33.00	PASS
				RB25#0	22.94	25.17	33.00	PASS
			HCH	RB1#0	23.94	26.17	33.00	PASS
				RB1#13	23.77	26.00	33.00	PASS
				RB1#24	23.58	25.81	33.00	PASS
				RB12#0	22.86	25.09	33.00	PASS
				RB12#6	22.75	24.98	33.00	PASS
				RB12#13	22.69	24.92	33.00	PASS
				RB25#0	22.75	24.98	33.00	PASS

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BAND2	LTE/TM1	10M	LCH	RB1#0	24.50	26.73	33.00	PASS
				RB1#25	25.12	27.35	33.00	PASS
				RB1#49	24.76	26.99	33.00	PASS
				RB25#0	23.65	25.88	33.00	PASS
				RB25#13	24.26	26.49	33.00	PASS
				RB25#25	24.26	26.49	33.00	PASS
				RB50#0	24.08	26.31	33.00	PASS
			MCH	RB1#0	24.86	27.09	33.00	PASS
				RB1#25	24.87	27.10	33.00	PASS
				RB1#49	24.90	27.13	33.00	PASS
				RB25#0	24.02	26.25	33.00	PASS
				RB25#13	23.98	26.21	33.00	PASS
				RB25#25	23.99	26.22	33.00	PASS
				RB50#0	24.03	26.26	33.00	PASS
			HCH	RB1#0	24.58	26.81	33.00	PASS
				RB1#25	24.84	27.07	33.00	PASS
				RB1#49	24.53	26.76	33.00	PASS
				RB25#0	24.07	26.30	33.00	PASS
				RB25#13	23.99	26.22	33.00	PASS
				RB25#25	23.90	26.13	33.00	PASS
				RB50#0	24.03	26.26	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
BAND2	LTE/TM2	10M	LCH	RB1#0	22.81	25.04	33.00	PASS
				RB1#25	24.30	26.53	33.00	PASS
				RB1#49	24.02	26.25	33.00	PASS
				RB25#0	22.64	24.87	33.00	PASS
				RB25#13	23.22	25.45	33.00	PASS
				RB25#25	23.23	25.46	33.00	PASS
				RB50#0	23.16	25.39	33.00	PASS
			MCH	RB1#0	24.18	26.41	33.00	PASS
				RB1#25	24.07	26.30	33.00	PASS
				RB1#49	24.09	26.32	33.00	PASS
				RB25#0	22.99	25.22	33.00	PASS
				RB25#13	22.94	25.17	33.00	PASS
				RB25#25	22.96	25.19	33.00	PASS
				RB50#0	22.99	25.22	33.00	PASS
			HCH	RB1#0	23.83	26.06	33.00	PASS
				RB1#25	23.94	26.17	33.00	PASS
				RB1#49	23.66	25.89	33.00	PASS
				RB25#0	23.02	25.25	33.00	PASS
				RB25#13	22.91	25.14	33.00	PASS
				RB25#25	22.76	24.99	33.00	PASS
				RB50#0	22.95	25.18	33.00	PASS

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BAND2	LTE/TM1	15M	LCH	RB1#0	24.05	26.28	33.00	PASS
				RB1#38	25.18	27.41	33.00	PASS
				RB1#74	24.63	26.86	33.00	PASS
				RB36#0	24.29	26.52	33.00	PASS
				RB36#18	24.31	26.54	33.00	PASS
				RB36#39	24.22	26.45	33.00	PASS
				RB75#0	24.27	26.50	33.00	PASS
			MCH	RB1#0	24.76	26.99	33.00	PASS
				RB1#38	24.78	27.01	33.00	PASS
				RB1#74	24.94	27.17	33.00	PASS
				RB36#0	24.09	26.32	33.00	PASS
				RB36#18	24.01	26.24	33.00	PASS
				RB36#39	24.05	26.28	33.00	PASS
				RB75#0	24.07	26.30	33.00	PASS
			HCH	RB1#0	24.78	27.01	33.00	PASS
				RB1#38	24.73	26.96	33.00	PASS
				RB1#74	24.7	26.93	33.00	PASS
				RB36#0	23.99	26.22	33.00	PASS
				RB36#18	24.13	26.36	33.00	PASS
				RB36#39	23.97	26.20	33.00	PASS
				RB75#0	24.09	26.32	33.00	PASS

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BAND2	LTE/TM2	15M	LCH	RB1#0	23.35	25.58	33.00	PASS
				RB1#38	24.33	26.56	33.00	PASS
				RB1#74	23.89	26.12	33.00	PASS
				RB36#0	23.26	25.49	33.00	PASS
				RB36#18	23.28	25.51	33.00	PASS
				RB36#39	23.26	25.49	33.00	PASS
				RB75#0	23.27	25.50	33.00	PASS
			MCH	RB1#0	24.14	26.37	33.00	PASS
				RB1#38	24.10	26.33	33.00	PASS
				RB1#74	24.16	26.39	33.00	PASS
				RB36#0	23.07	25.30	33.00	PASS
				RB36#18	22.99	25.22	33.00	PASS
				RB36#39	23.05	25.28	33.00	PASS
				RB75#0	23.04	25.27	33.00	PASS
			HCH	RB1#0	24.31	26.54	33.00	PASS
				RB1#38	24.13	26.36	33.00	PASS
				RB1#74	23.73	25.96	33.00	PASS
				RB36#0	23.03	25.26	33.00	PASS
				RB36#18	23.09	25.32	33.00	PASS
				RB36#39	22.91	25.14	33.00	PASS
				RB75#0	23.05	25.28	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
BAND2	LTE/TM1	20M	LCH	RB1#0	23.65	25.88	33.00	PASS
				RB1#50	24.58	26.81	33.00	PASS
				RB1#99	23.79	26.02	33.00	PASS
				RB50#0	24.00	26.23	33.00	PASS
				RB50#25	23.88	26.11	33.00	PASS
				RB50#50	23.21	25.44	33.00	PASS
				RB100#0	23.62	25.85	33.00	PASS
			MCH	RB1#0	24.18	26.41	33.00	PASS
				RB1#50	24.83	27.06	33.00	PASS
				RB1#99	24.92	27.15	33.00	PASS
				RB50#0	24.06	26.29	33.00	PASS
				RB50#25	24.02	26.25	33.00	PASS
				RB50#50	24.05	26.28	33.00	PASS
				RB100#0	24.05	26.28	33.00	PASS
			HCH	RB1#0	24.77	27.00	33.00	PASS
				RB1#50	24.06	26.29	33.00	PASS
				RB1#99	24.68	26.91	33.00	PASS
				RB50#0	24.14	26.37	33.00	PASS
				RB50#25	23.62	25.85	33.00	PASS
				RB50#50	24.02	26.25	33.00	PASS
				RB100#0	24.08	26.31	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
BAND2	LTE/TM2	20M	LCH	RB1#0	22.96	25.19	33.00	PASS
				RB1#50	23.9	26.13	33.00	PASS
				RB1#99	23.09	25.32	33.00	PASS
				RB50#0	23.00	25.23	33.00	PASS
				RB50#25	22.89	25.12	33.00	PASS
				RB50#50	22.20	24.43	33.00	PASS
				RB100#0	22.61	24.84	33.00	PASS
			MCH	RB1#0	23.48	25.71	33.00	PASS
				RB1#50	24.00	26.23	33.00	PASS
				RB1#99	24.12	26.35	33.00	PASS
				RB50#0	22.91	25.14	33.00	PASS
				RB50#25	22.98	25.21	33.00	PASS
				RB50#50	23.04	25.27	33.00	PASS
				RB100#0	23.01	25.24	33.00	PASS
			HCH	RB1#0	24.17	26.40	33.00	PASS
				RB1#50	23.28	25.51	33.00	PASS
				RB1#99	23.70	25.93	33.00	PASS
				RB50#0	23.16	25.39	33.00	PASS
				RB50#25	22.69	24.92	33.00	PASS
				RB50#50	23.00	25.23	33.00	PASS
				RB100#0	23.05	25.28	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 2	TM1/20M	LCH	4.58	13	PASS
		MCH	4.49	13	PASS
		HCH	4.70	13	PASS
	TM2/20M	LCH	5.59	13	PASS
		MCH	5.59	13	PASS
		HCH	5.62	13	PASS



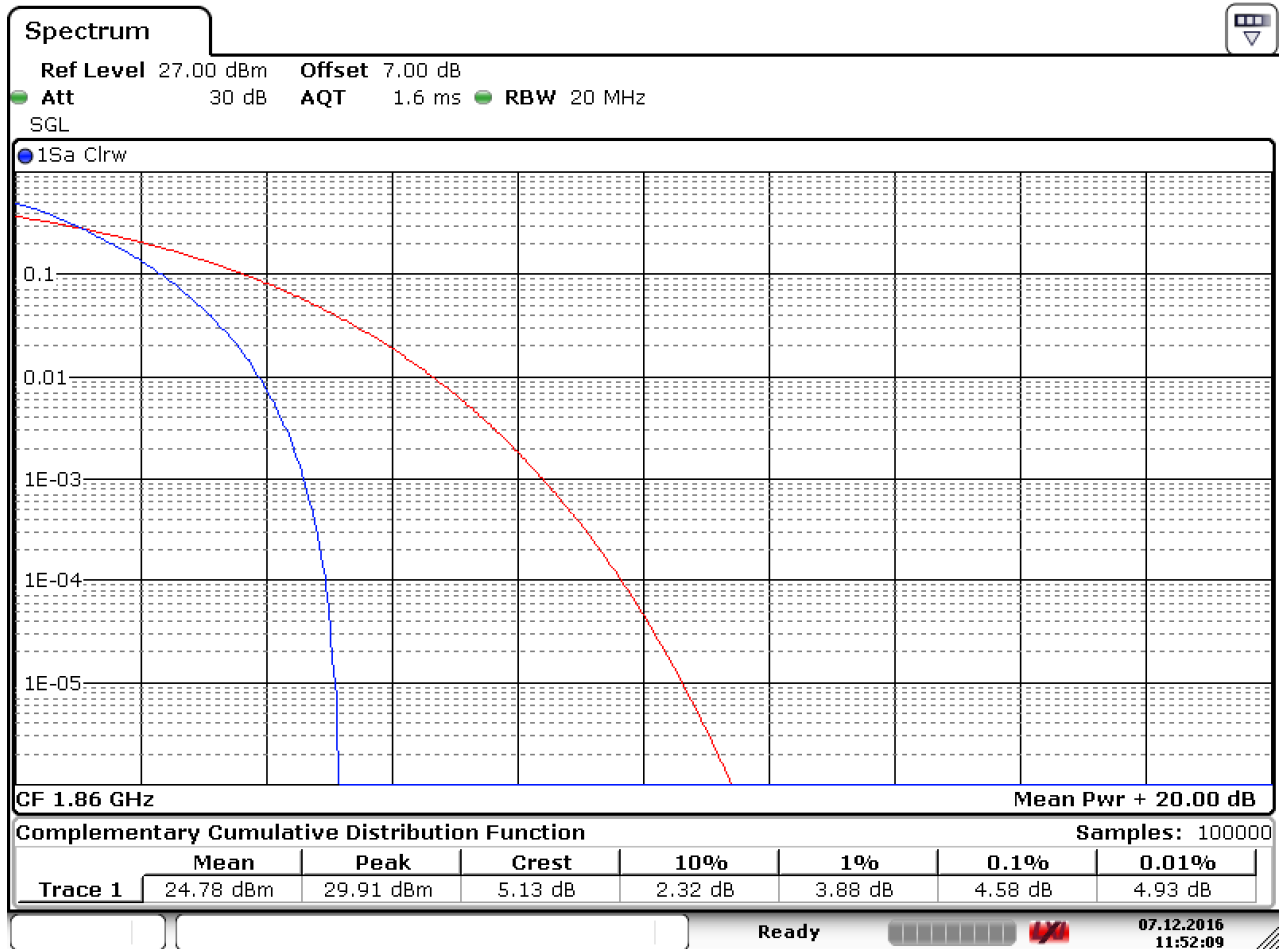
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band2

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

2.1.1.1.1 Test Channel = LCH

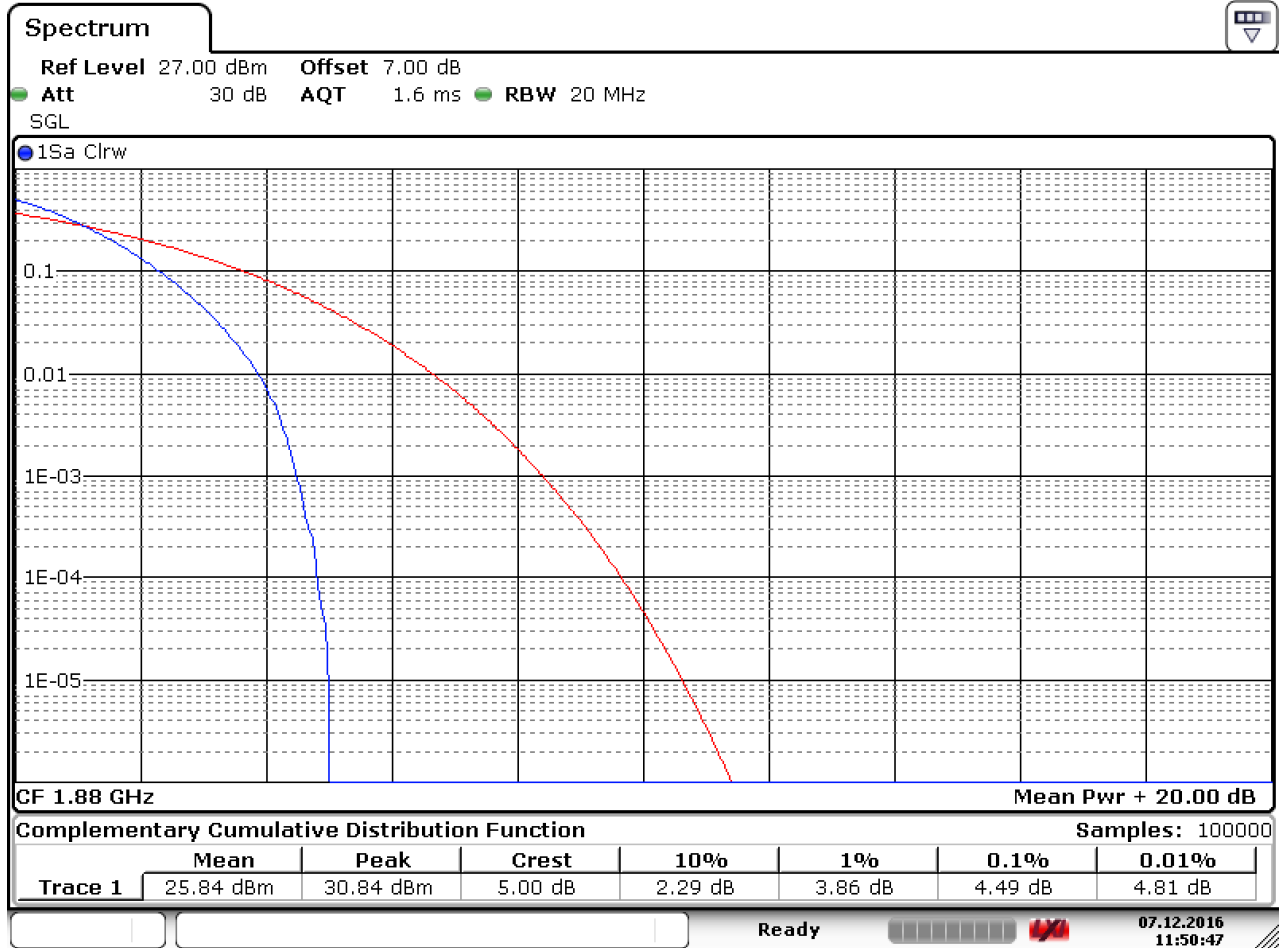


Date: 7.DEC.2016 11:52:09

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2.1.1.1.2 Test Channel = MCH

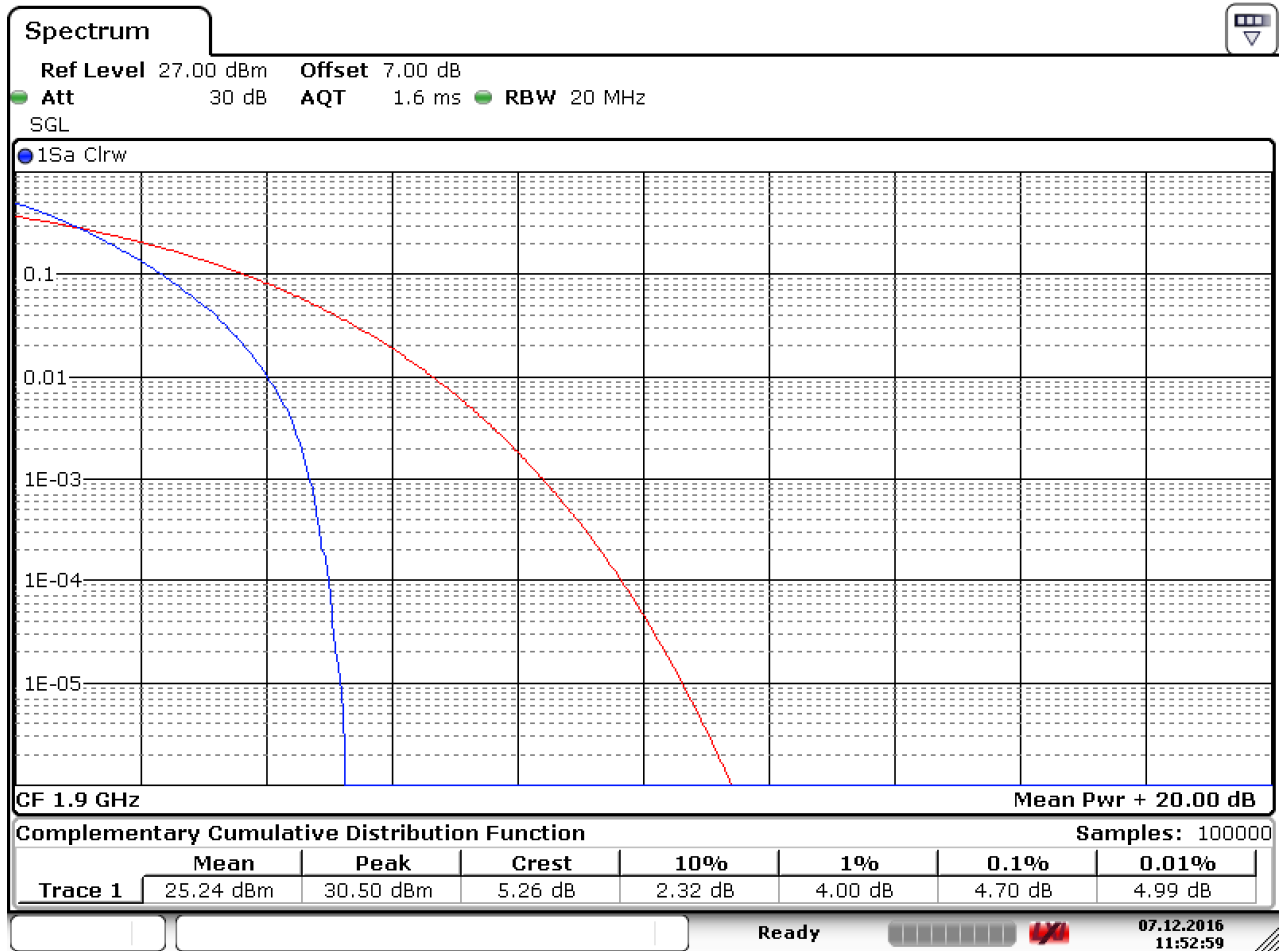


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2.1.1.1.3 Test Channel = HCH



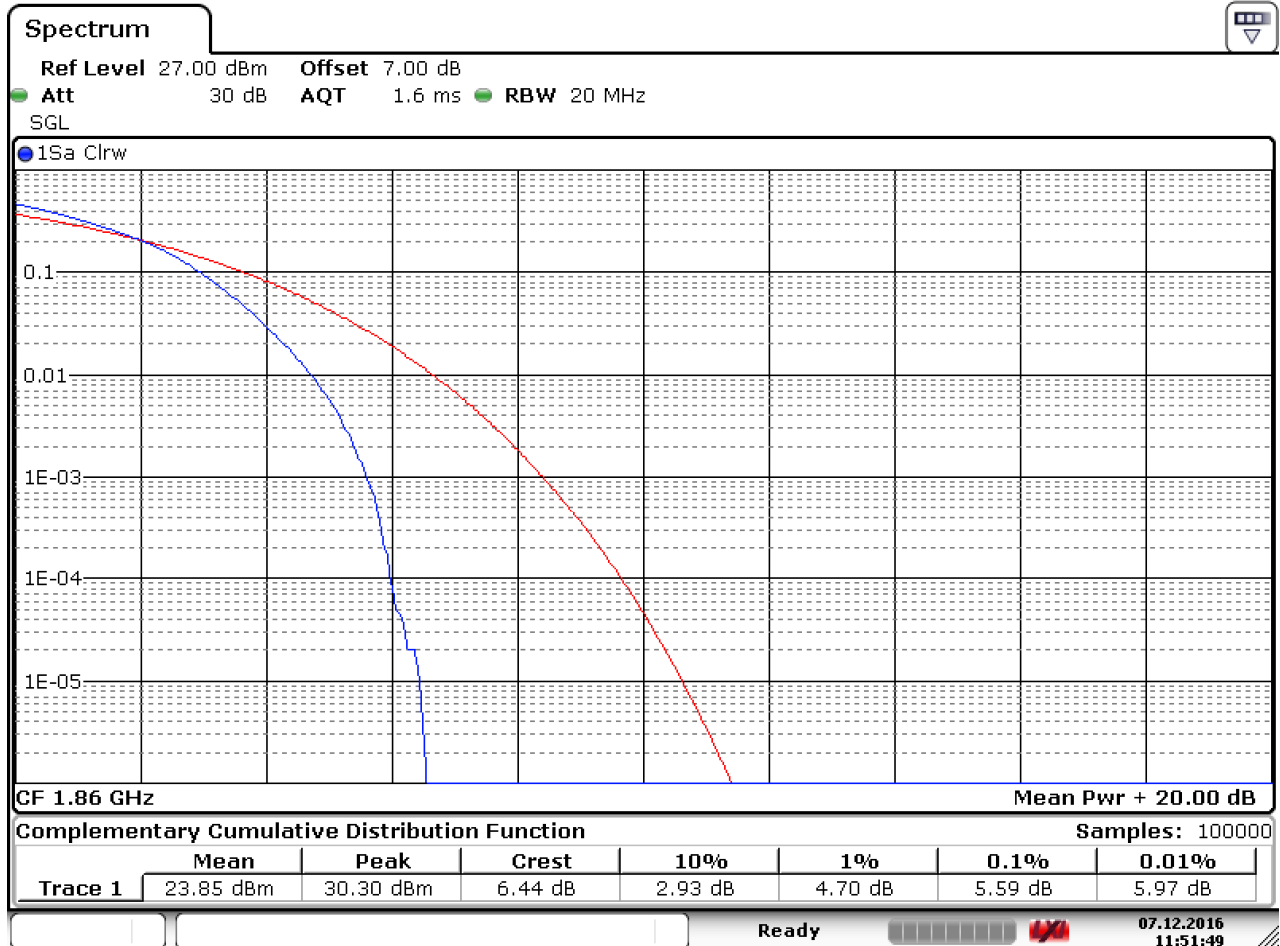
Date: 7.DEC.2016 11:53:00

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

2.1.1.2.1 Test Channel = LCH

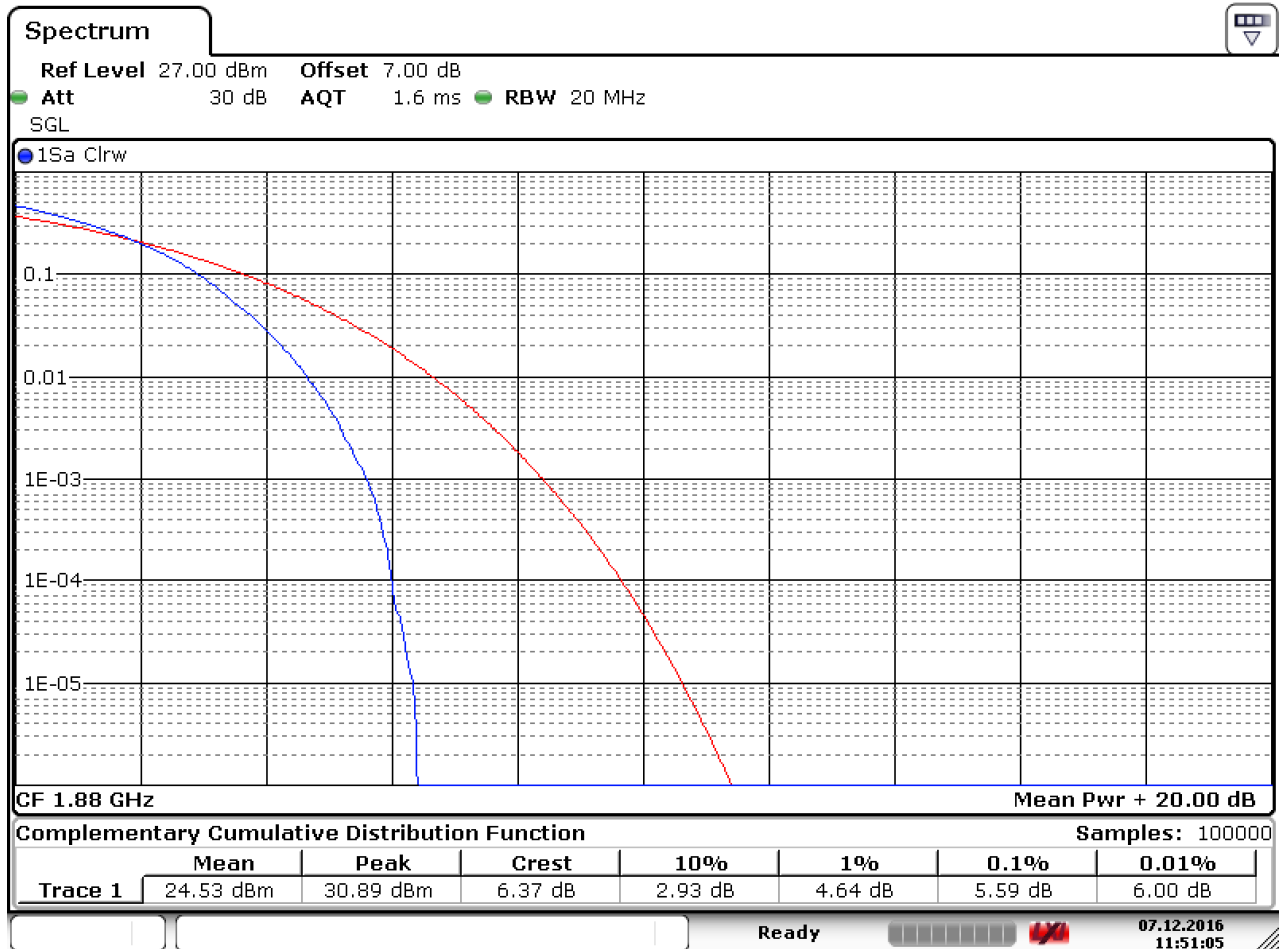


Date: 7.DEC.2016 11:51:49

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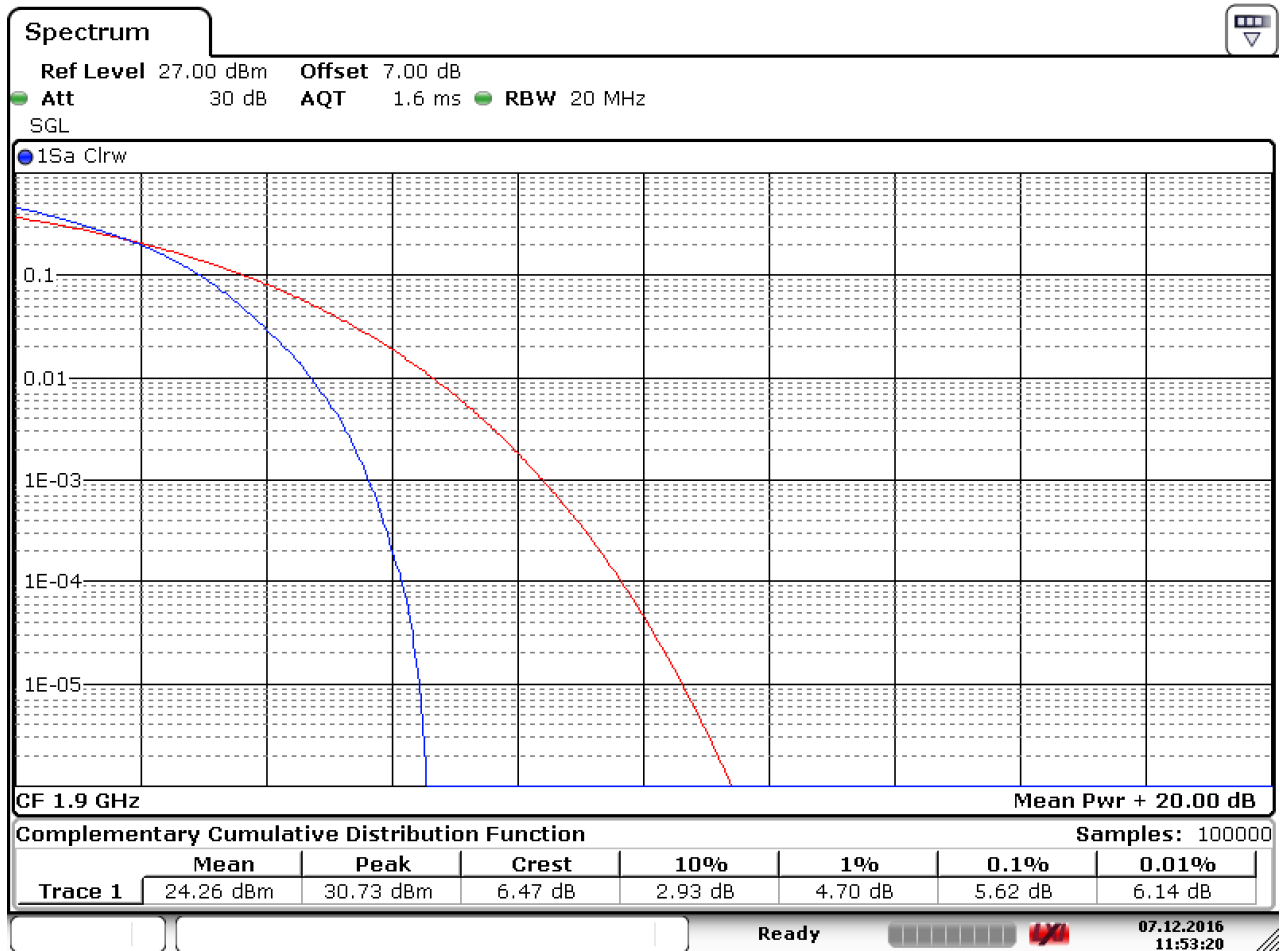
2.1.1.2.2 Test Channel = MCH



Date: 7.DEC.2016 11:51:05



2.1.1.2.3 Test Channel = HCH



Date: 7.DEC.2016 11:53:20

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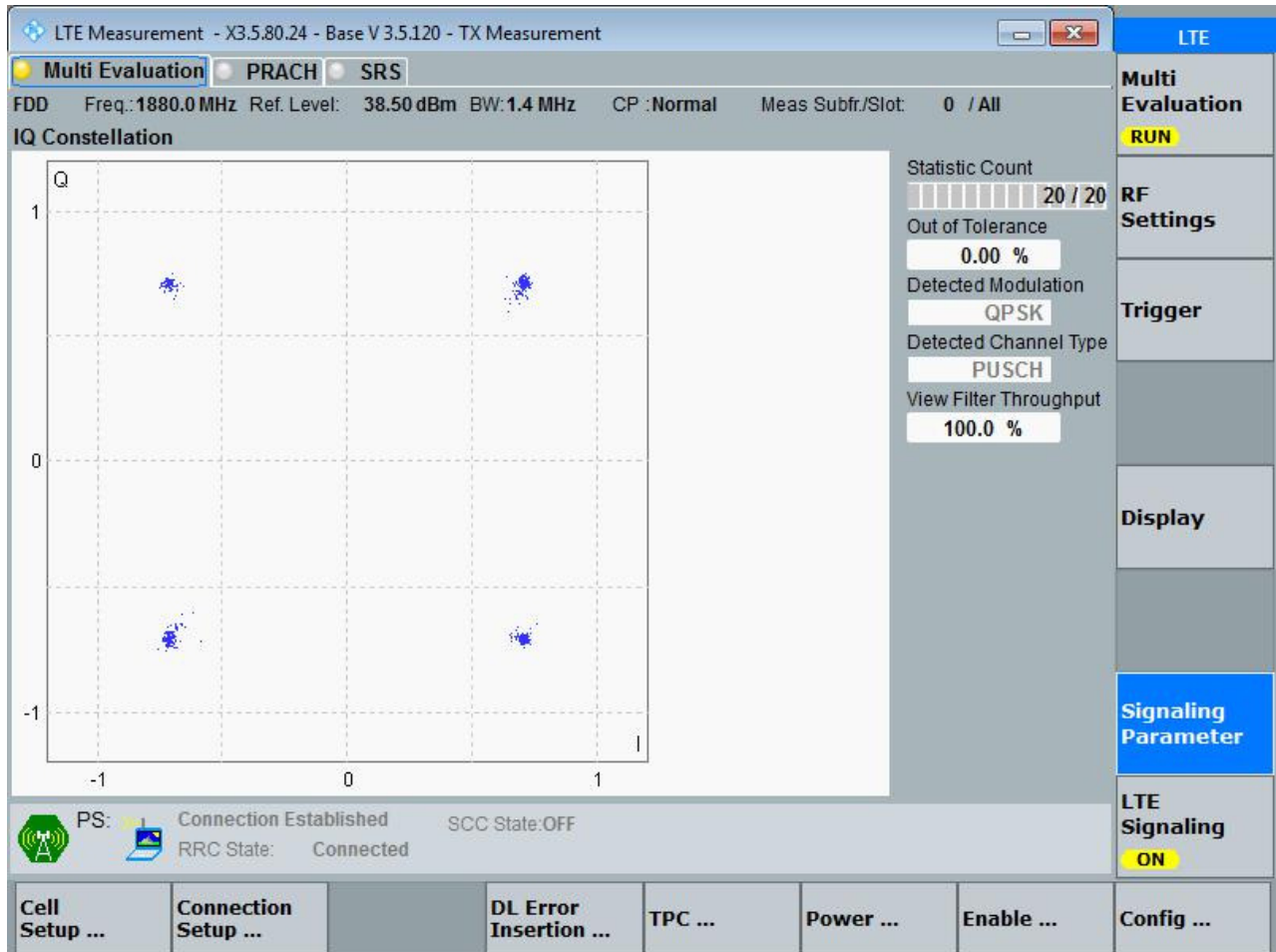
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band2

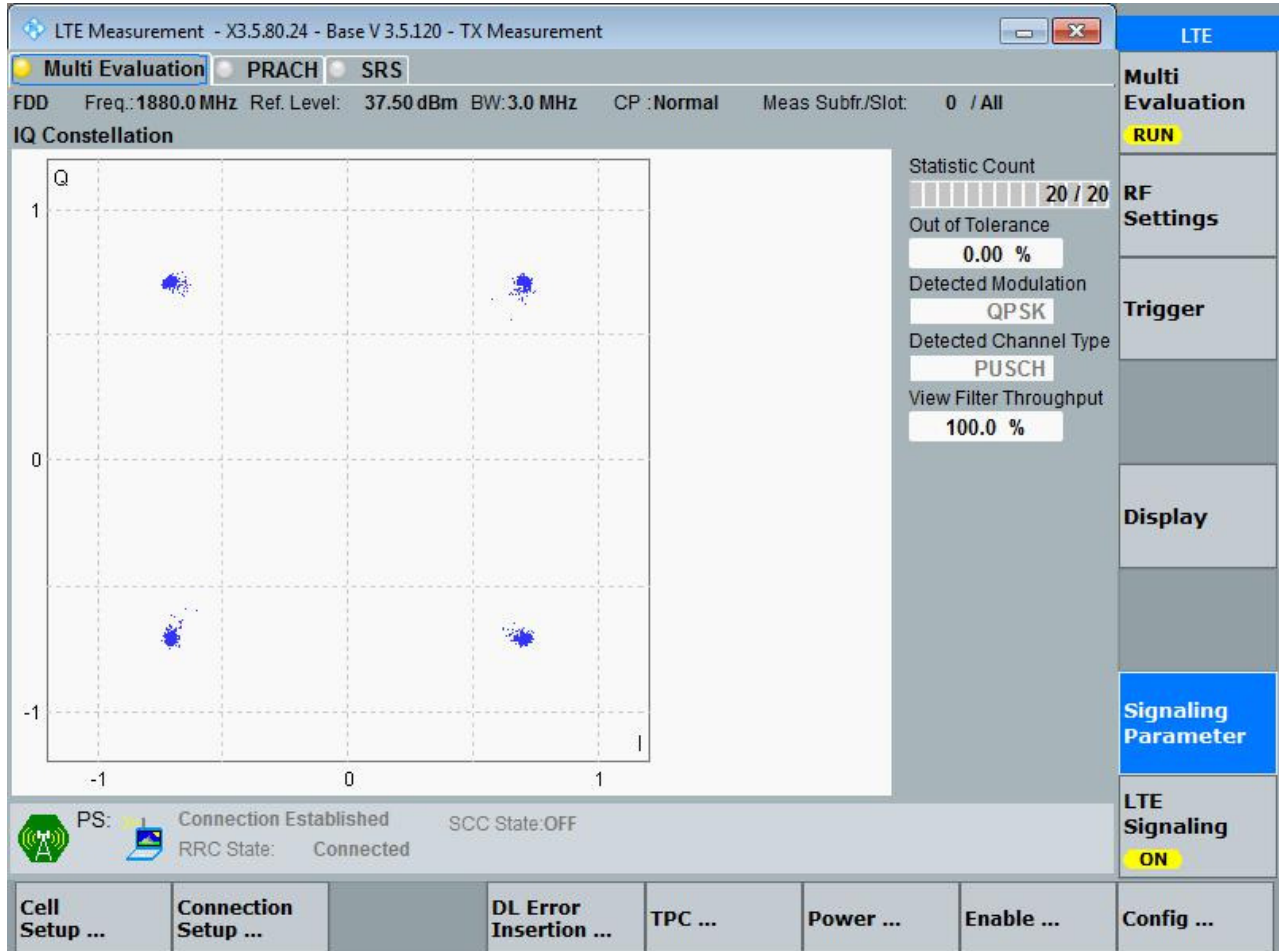
3.1.1.1 Test Mode = LTE /TM1 1.4MHz

3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 5MHz

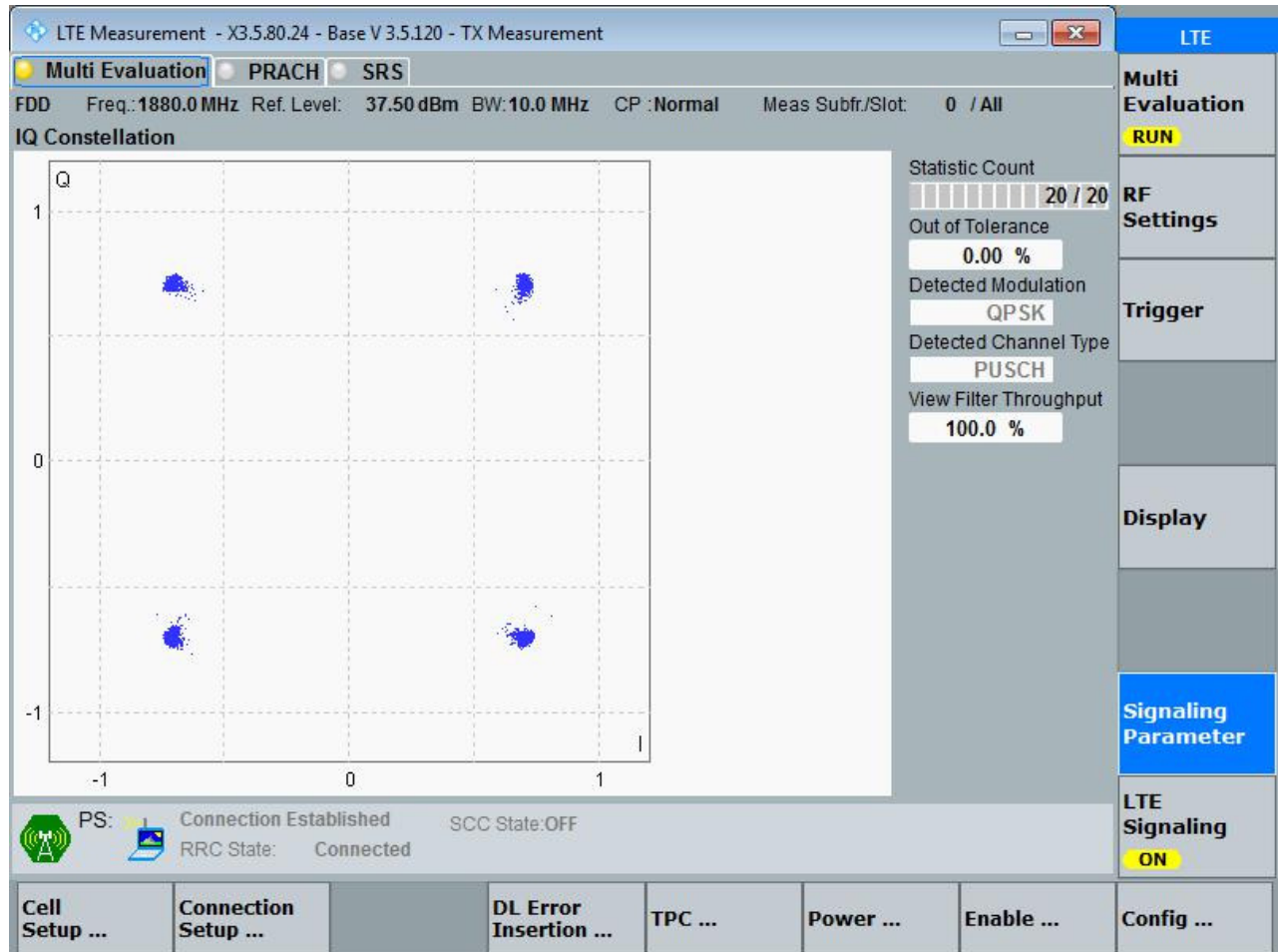
3.1.1.3.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 37.40 dBm, BW: 5.0 MHz, CP: Normal, and Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a QPSK modulation scheme with four clusters of points in a square arrangement. The "Statistic Count" is 20 / 20, "Out of Tolerance" is 0.00 %, "Detected Modulation" is QPSK, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface also includes a "PS" icon, "Connection Established", "SCC State: OFF", and "RRC State: Connected". The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...". On the right side, there is a vertical toolbar with buttons for "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling ON".



3.1.1.4 Test Mode = LTE /TM1 10MHz

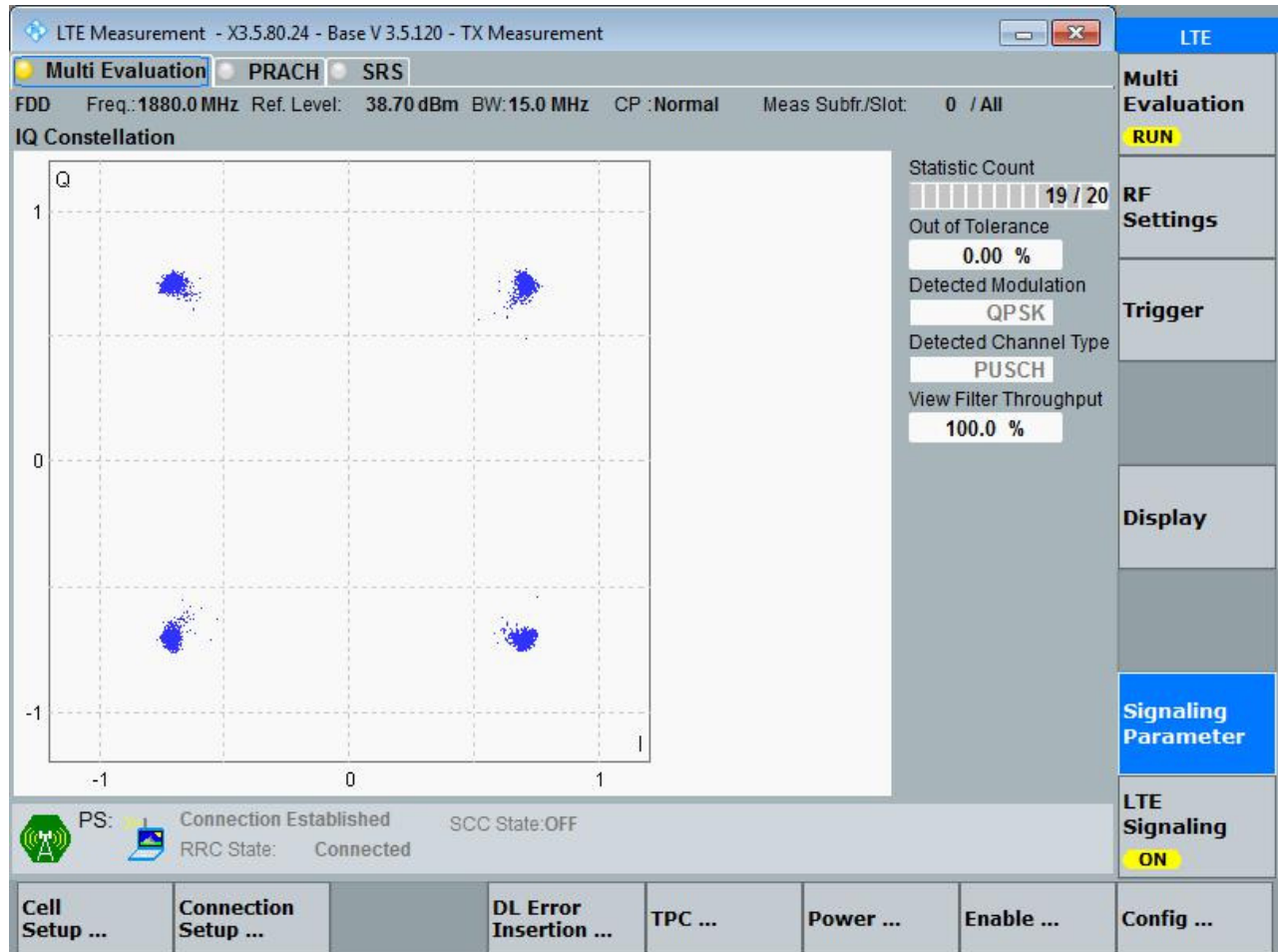
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM1 15MHz

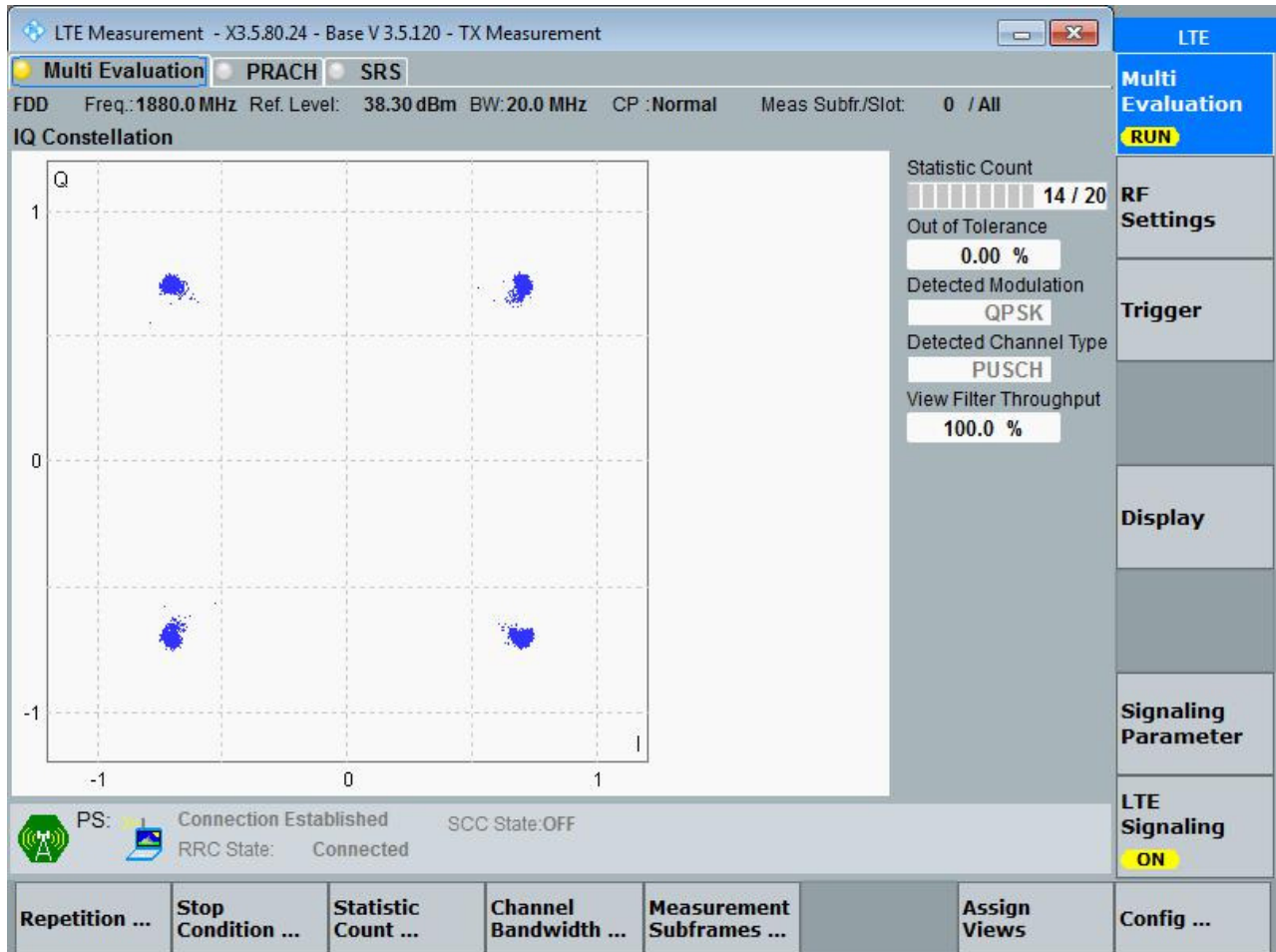
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM1 20MHz

3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 1.4MHz

3.1.1.7.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 38.50 dBm, BW: 1.4 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "Statistic Count" is 20 / 20, "Out of Tolerance" is 0.00 %, "Detected Modulation" is 16-QAM, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface also includes a "PS" icon, "Connection Established", "SCC State: OFF", and "RRC State: Connected". The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



3.1.1.8 Test Mode = LTE /TM2 3MHz

3.1.1.8.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 37.50 dBm, BW: 3.0 MHz, CP: Normal, and Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "Statistic Count" is 20 / 20, and the "Out of Tolerance" is 0.00%. The "Detected Modulation" is 16-QAM, and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%. The interface also includes a "PS" icon, "Connection Established", "SCC State: OFF", and "RRC State: Connected". The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



3.1.1.9 Test Mode = LTE /TM2 5MHz

3.1.1.9.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters:

- FDD Freq.: 1880.0 MHz
- Ref. Level: 37.40 dBm
- BW: 5.0 MHz
- CP: Normal
- Meas Subfr./Slot: 0 / All

The "IQ Constellation" plot shows a 16-QAM modulation scheme with 16 distinct clusters of points arranged in a 4x4 grid. The axes are labeled "Q" (vertical) and "I" (horizontal), both ranging from -1 to 1. To the right of the plot, the "Statistic Count" is 20 / 20, and the "Out of Tolerance" is 0.00%. The "Detected Modulation" is 16-QAM, and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%.

The interface also includes a status bar at the bottom with the following information:

- PS: Connection Established
- SCC State: OFF
- RRC State: Connected

On the right side, there is a vertical toolbar with buttons for "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling ON". At the bottom, there is a row of buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.10 Test Mode = LTE /TM2 10MHz

3.1.1.10.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 37.50 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "Statistic Count" is 20 / 20, "Out of Tolerance" is 0.00 %, "Detected Modulation" is 16-QAM, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface also includes a "PS" icon, "Connection Established", "SCC State: OFF", and "RRC State: Connected". The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



3.1.1.11 Test Mode = LTE /TM2 15MHz

3.1.1.11.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters:

- FDD Freq.: 1880.0 MHz
- Ref. Level: 38.70 dBm
- BW: 15.0 MHz
- CP: Normal
- Meas Subfr./Slot: 0 / All

The "IQ Constellation" plot shows a 16-QAM modulation scheme with 16 distinct clusters of points arranged in a 4x4 grid. The axes are labeled "Q" (vertical) and "I" (horizontal), ranging from -1 to 1. To the right of the plot, the "Statistic Count" is 20 / 20, and the "Out of Tolerance" is 0.00%. The "Detected Modulation" is 16-QAM, and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%.

The interface includes a sidebar with the following sections:

- LTE** (selected)
- Multi Evaluation** (with a "RUN" button)
- RF Settings**
- Trigger**
- Display**
- Signaling Parameter** (with a "Signaling ON" button)
- LTE Signaling** (with a "Signaling ON" button)

At the bottom, the status bar shows "PS: Connection Established" and "RRC State: Connected". Below the status bar is a row of buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.12 Test Mode = LTE /TM2 20MHz

3.1.1.12.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 38.30 dBm, BW: 20.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "Statistic Count" is 20 / 20, "Out of Tolerance" is 0.00 %, "Detected Modulation" is 16-QAM, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface also includes a "PS" icon, "Connection Established", "SCC State: OFF", and "RRC State: Connected". The bottom status bar shows "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 2	TM1/1.4MHz	LCH	1.10	1.28	PASS
		MCH	1.09	1.28	PASS
		HCH	1.10	1.32	PASS
	TM2/1.4MHz	LCH	1.09	1.27	PASS
		MCH	1.10	1.29	PASS
		HCH	1.11	1.29	PASS
	TM1/ 3MHz	LCH	2.69	2.90	PASS
		MCH	2.69	2.91	PASS
		HCH	2.69	3.00	PASS
	TM2/3MHz	LCH	2.68	2.92	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.93	PASS
	TM1/ 5MHz	LCH	4.48	4.96	PASS
		MCH	4.48	4.98	PASS
		HCH	4.50	5.00	PASS
	TM2/ 5MHz	LCH	4.49	5.00	PASS
		MCH	4.50	5.00	PASS
		HCH	4.49	4.95	PASS
	TM1/10MHz	LCH	8.93	9.71	PASS
		MCH	8.93	9.77	PASS
		HCH	8.95	9.81	PASS
	TM2/ 10MHz	LCH	8.95	9.75	PASS
		MCH	8.93	9.73	PASS
		HCH	8.93	9.65	PASS
TM1/ 15MHz	LCH	13.52	14.99	PASS	
	MCH	13.49	14.99	PASS	
	HCH	13.46	14.97	PASS	
TM2/ 15MHz	LCH	13.52	14.93	PASS	
	MCH	13.52	14.96	PASS	
	HCH	13.52	14.79	PASS	

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**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZEM161000916605

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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM1/ 20MHz	LCH	17.90	19.46	PASS
		MCH	17.94	19.42	PASS
		HCH	17.98	19.58	PASS
	TM2/ 20MHz	LCH	17.94	19.66	PASS
		MCH	17.94	19.46	PASS
		HCH	17.94	19.54	PASS

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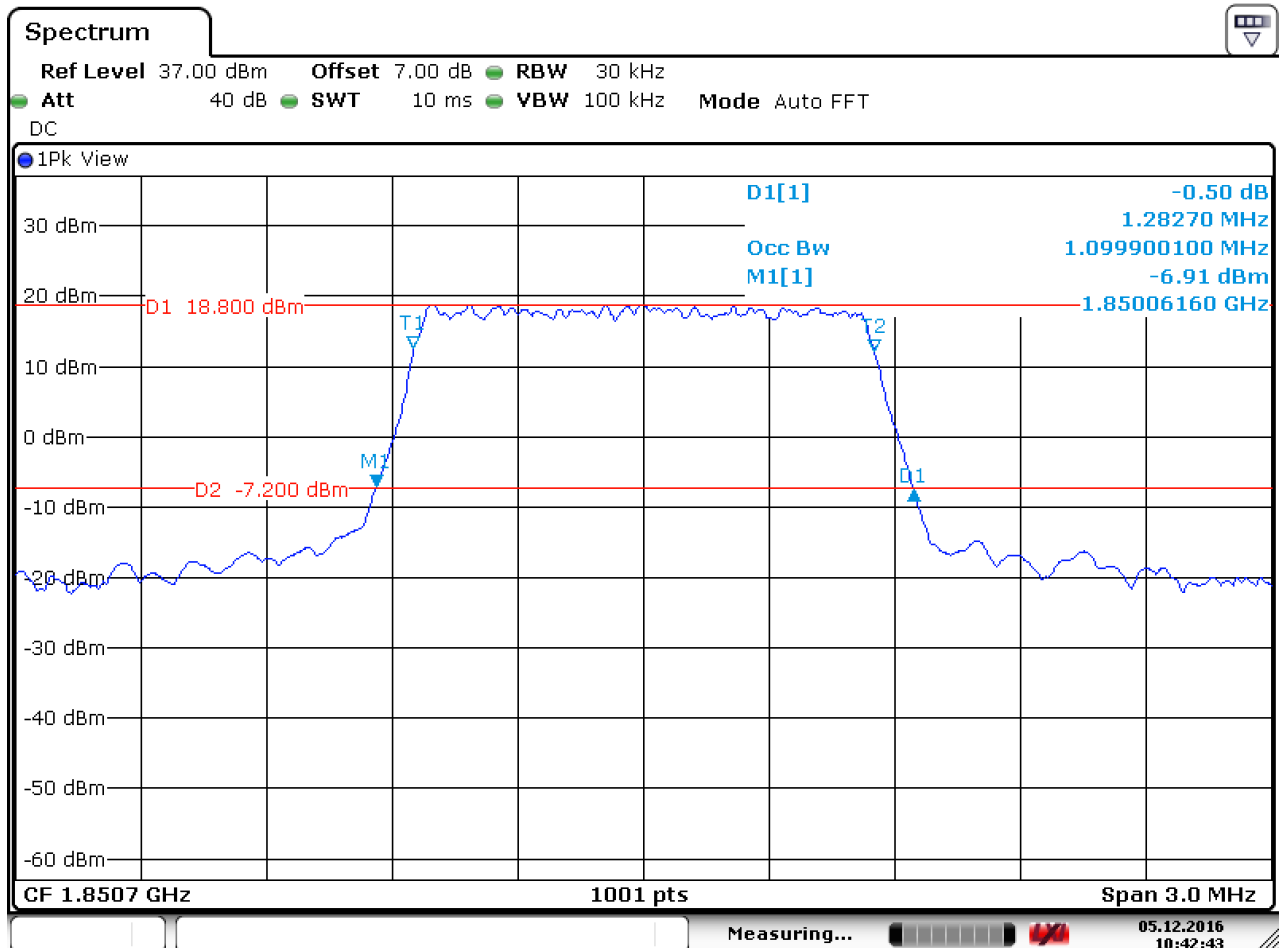
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band2

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

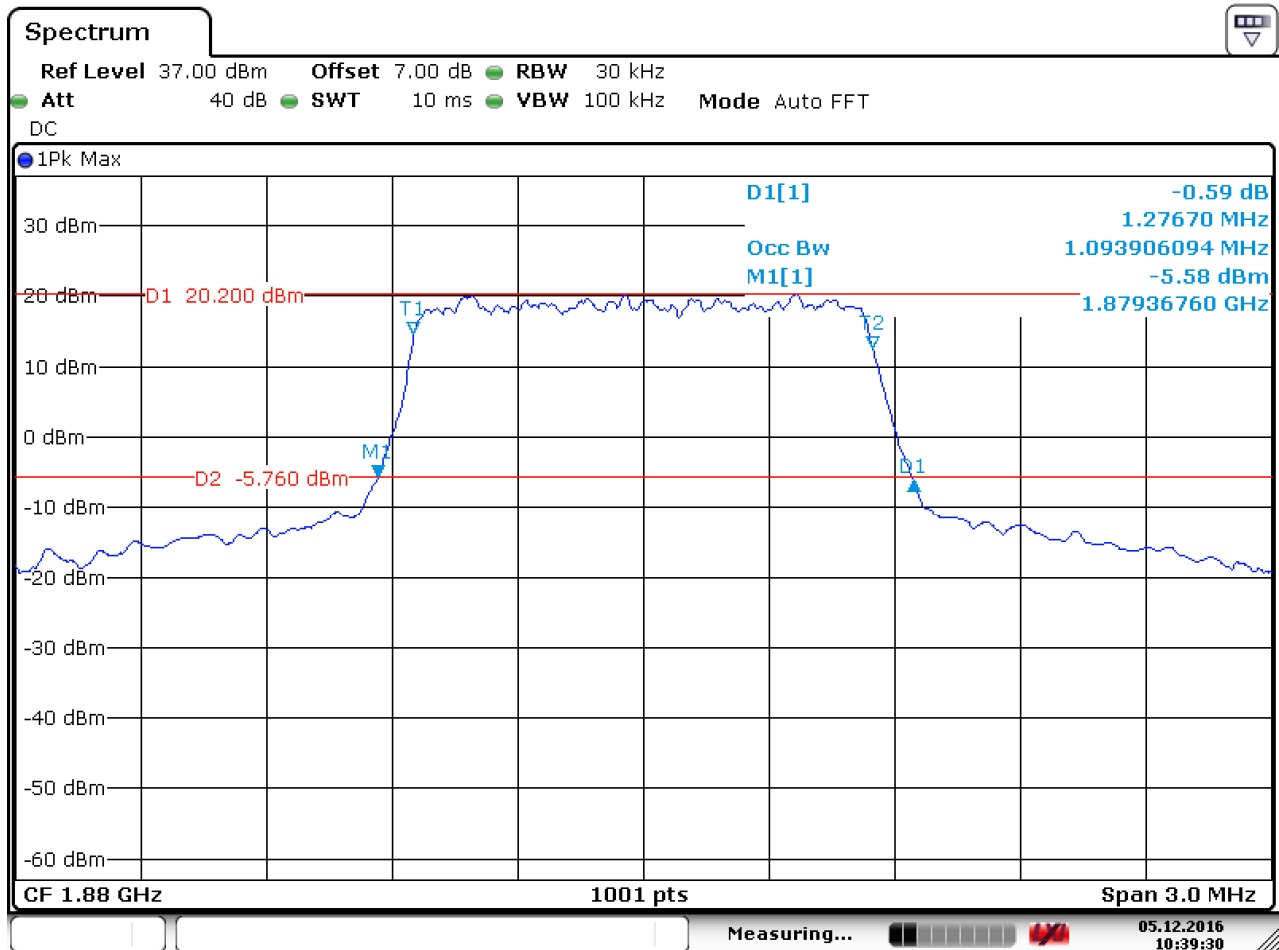


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4.1.1.1.2 Test Channel = MCH

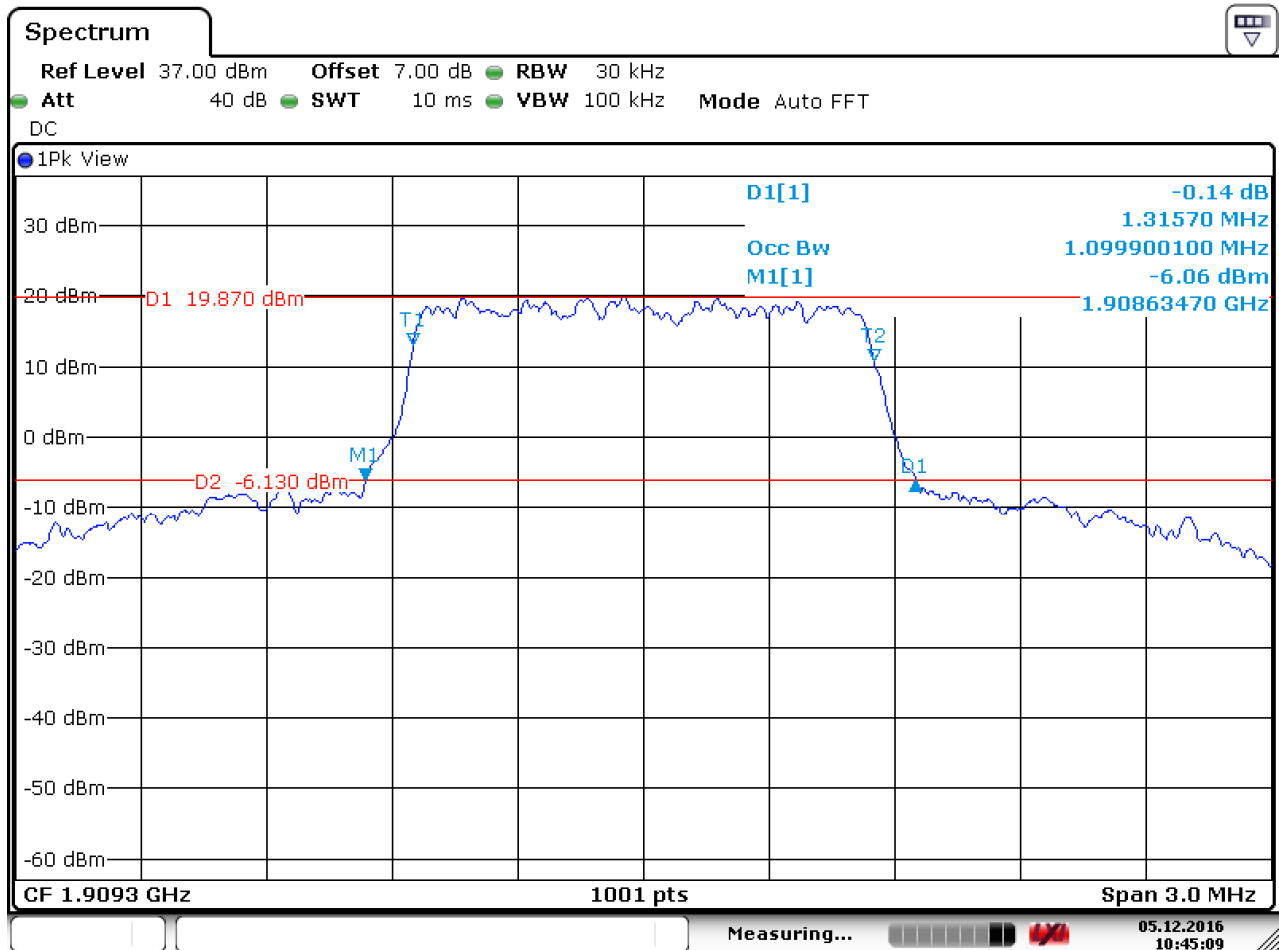


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4.1.1.1.3 Test Channel = HCH



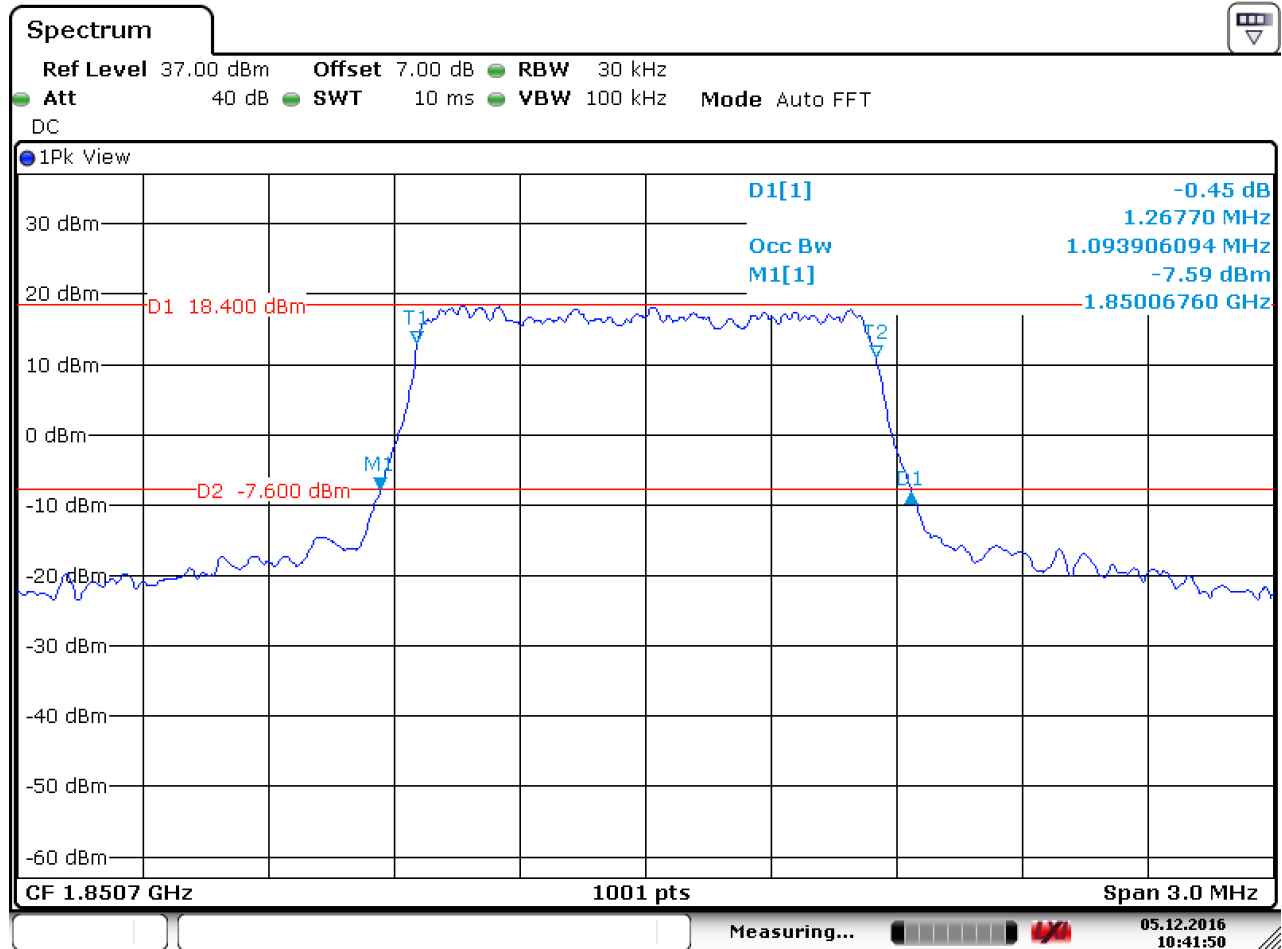
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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

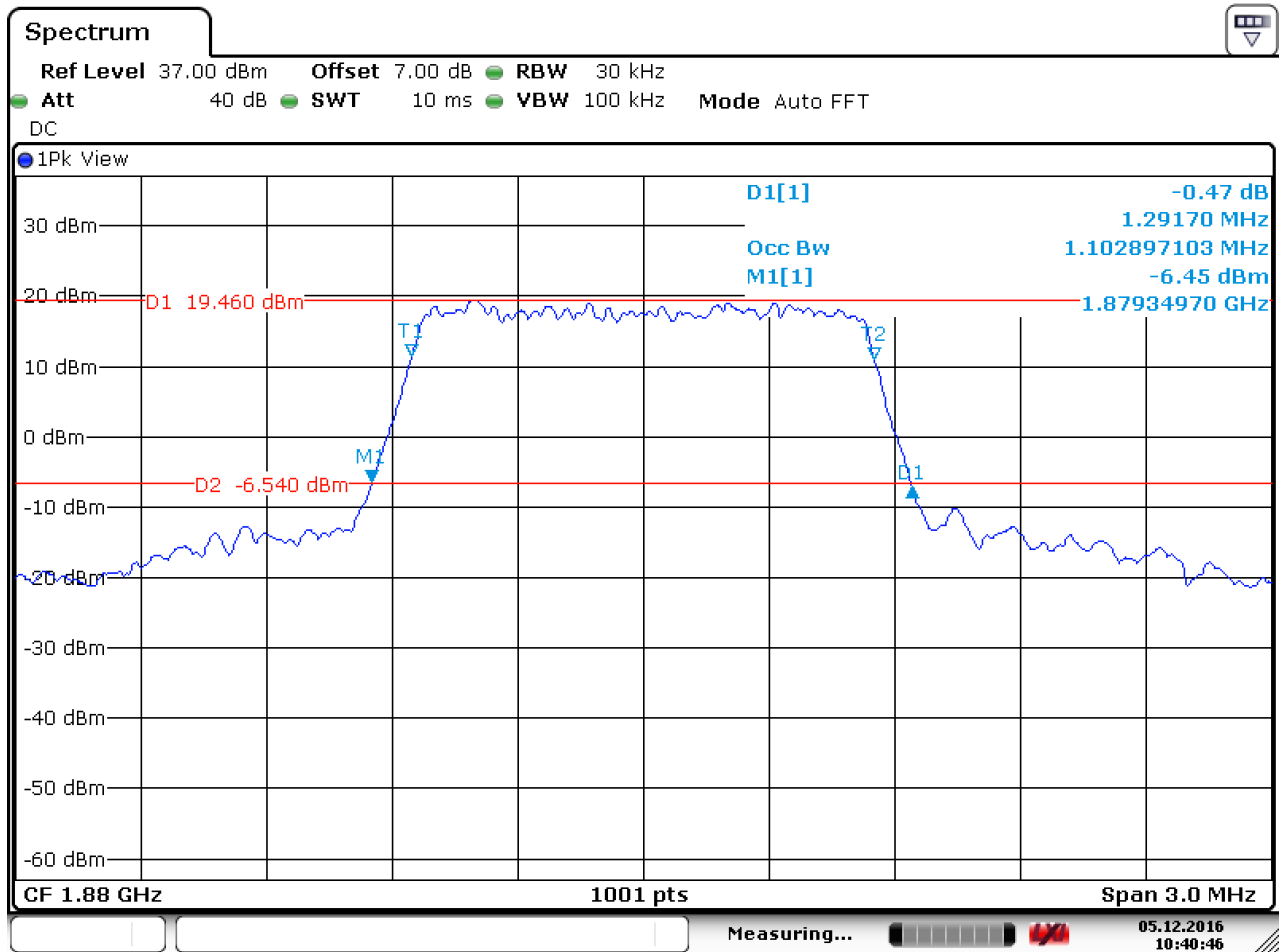
4.1.1.2.1 Test Channel = LCH



Date: 5.DEC.2016 10:41:50



4.1.1.2.2 Test Channel = MCH

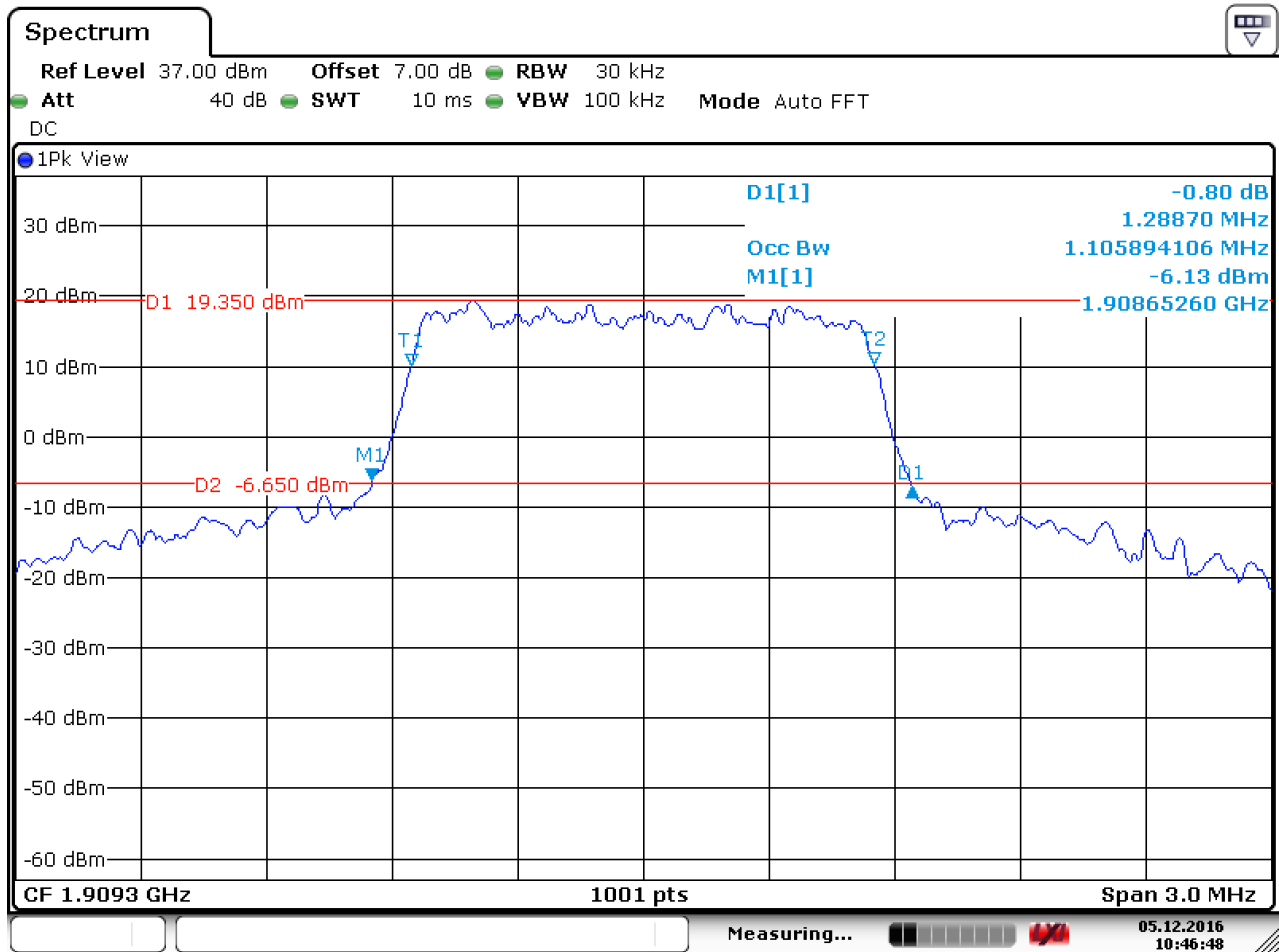


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4.1.1.2.3 Test Channel = HCH



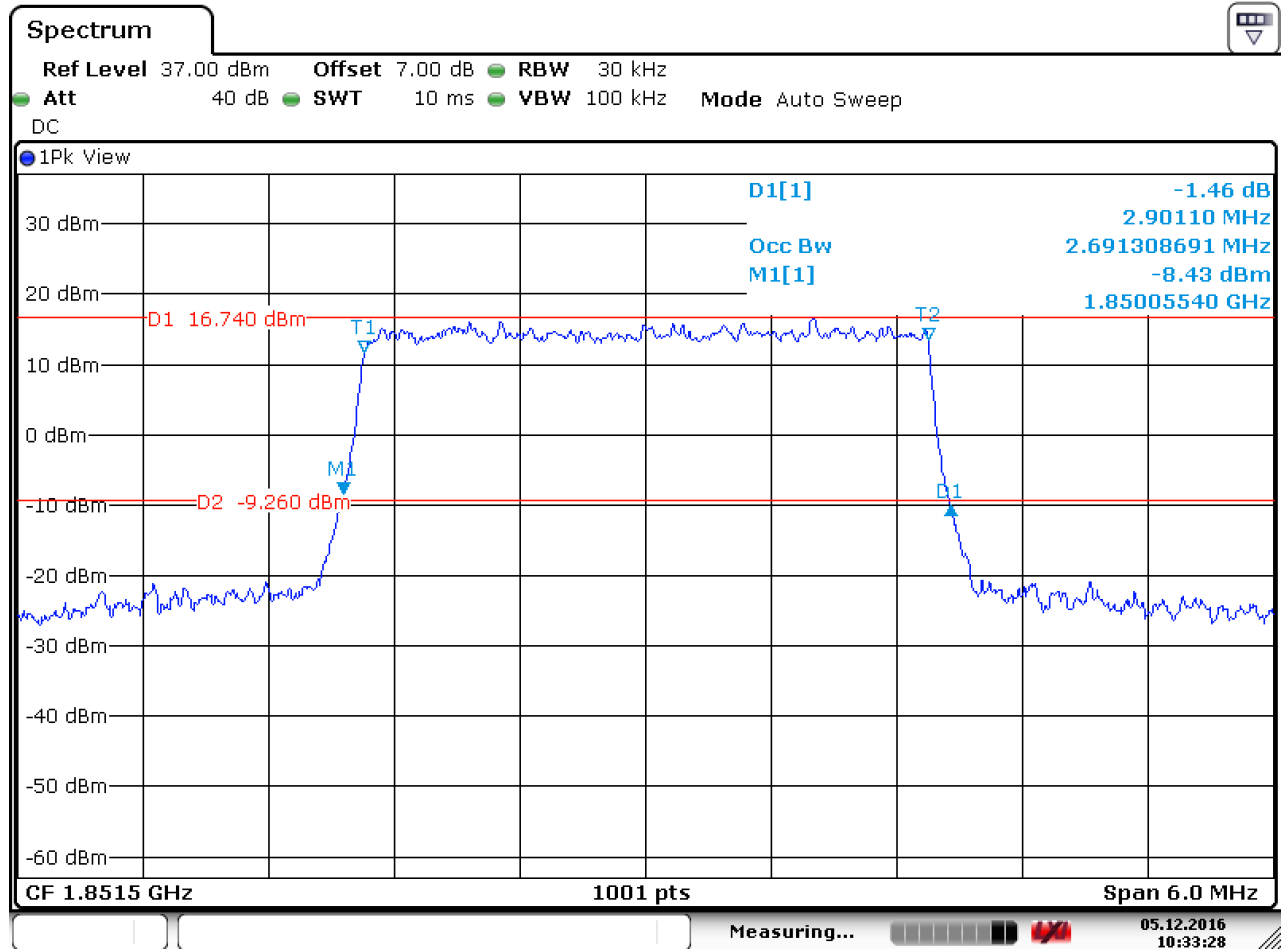
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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

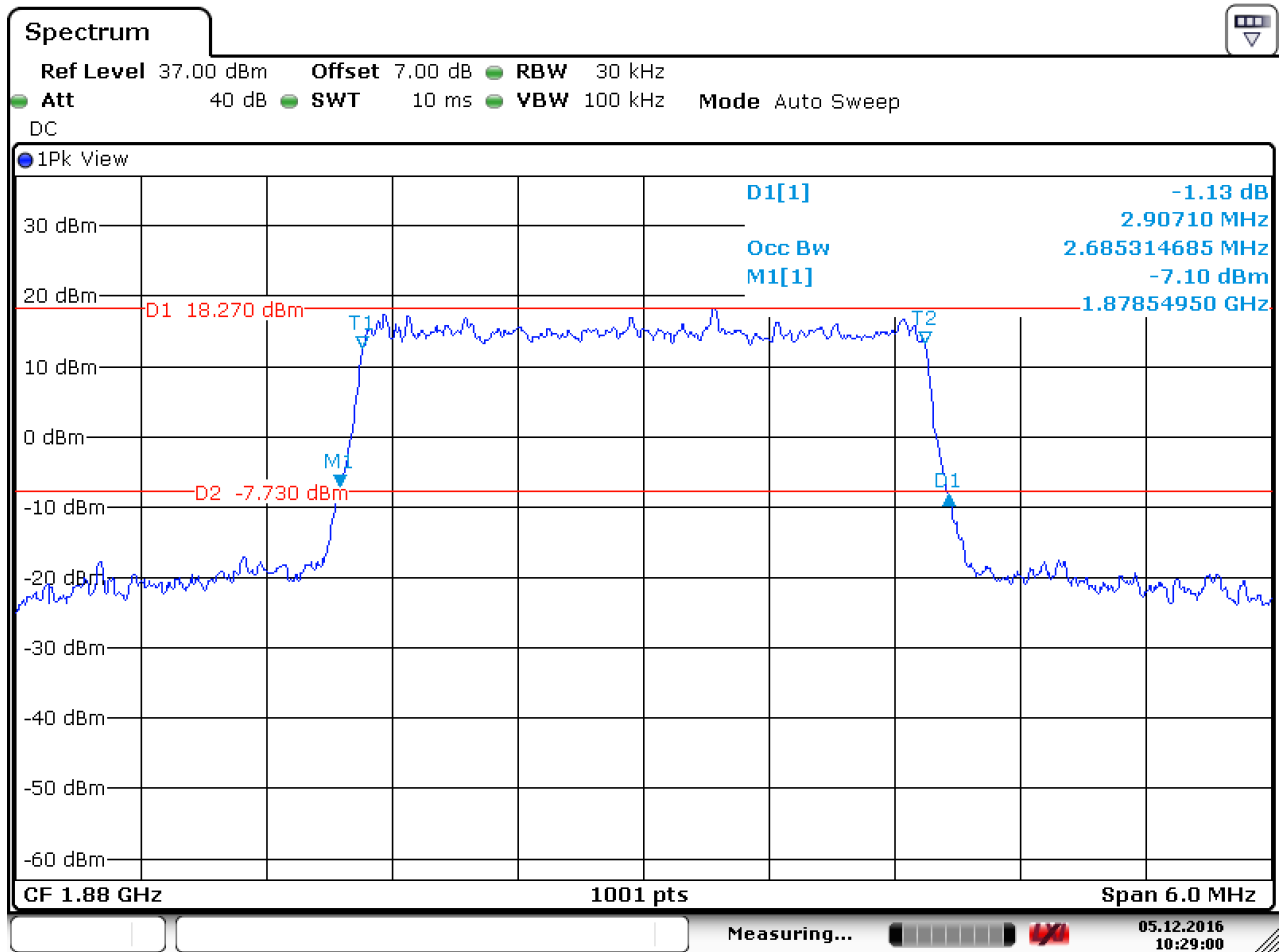


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4.1.1.3.2 Test Channel = MCH

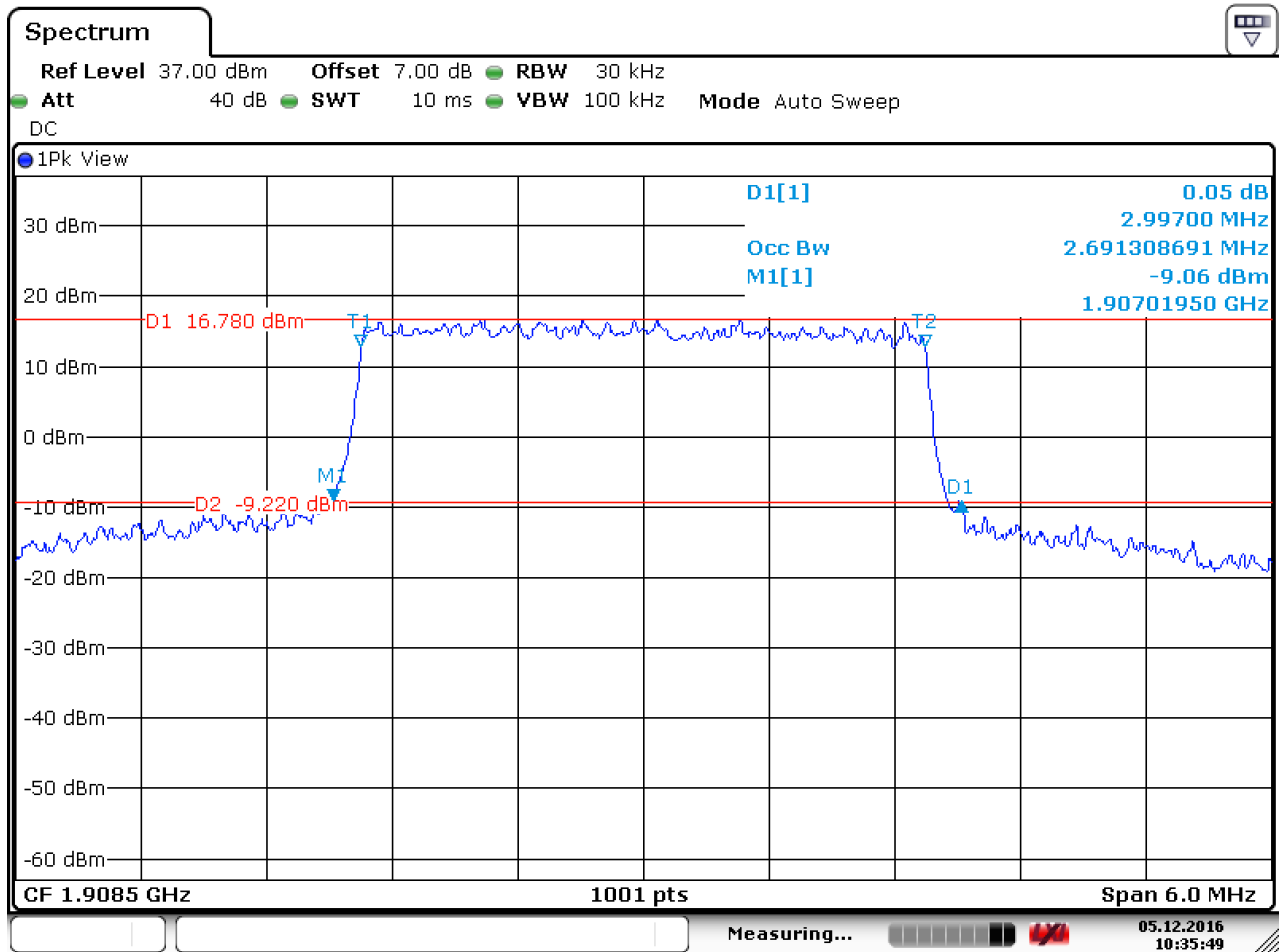


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4.1.1.3.3 Test Channel = HCH

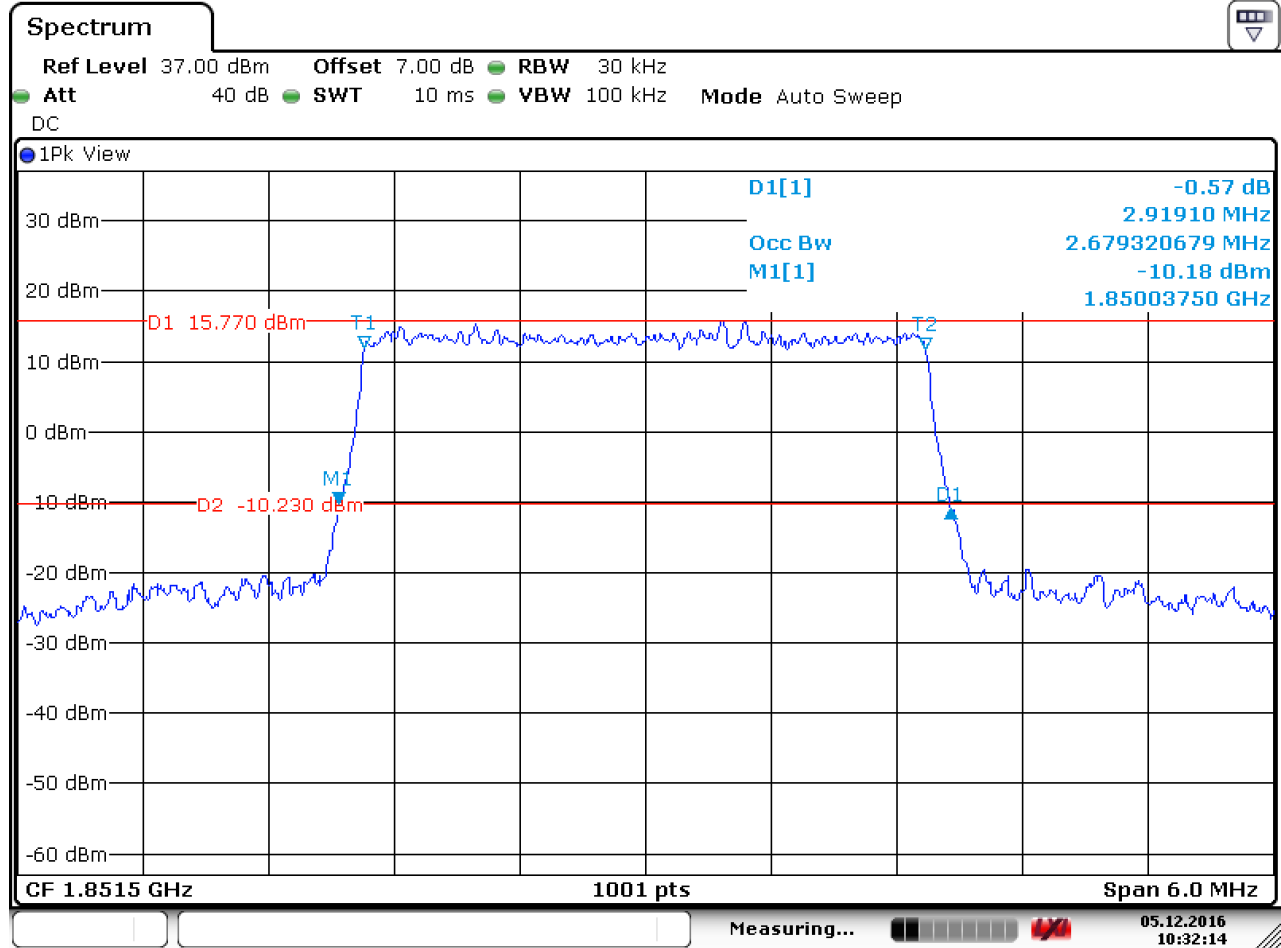


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4.1.1.4 Test Mode = LTE/TM2 3MHz

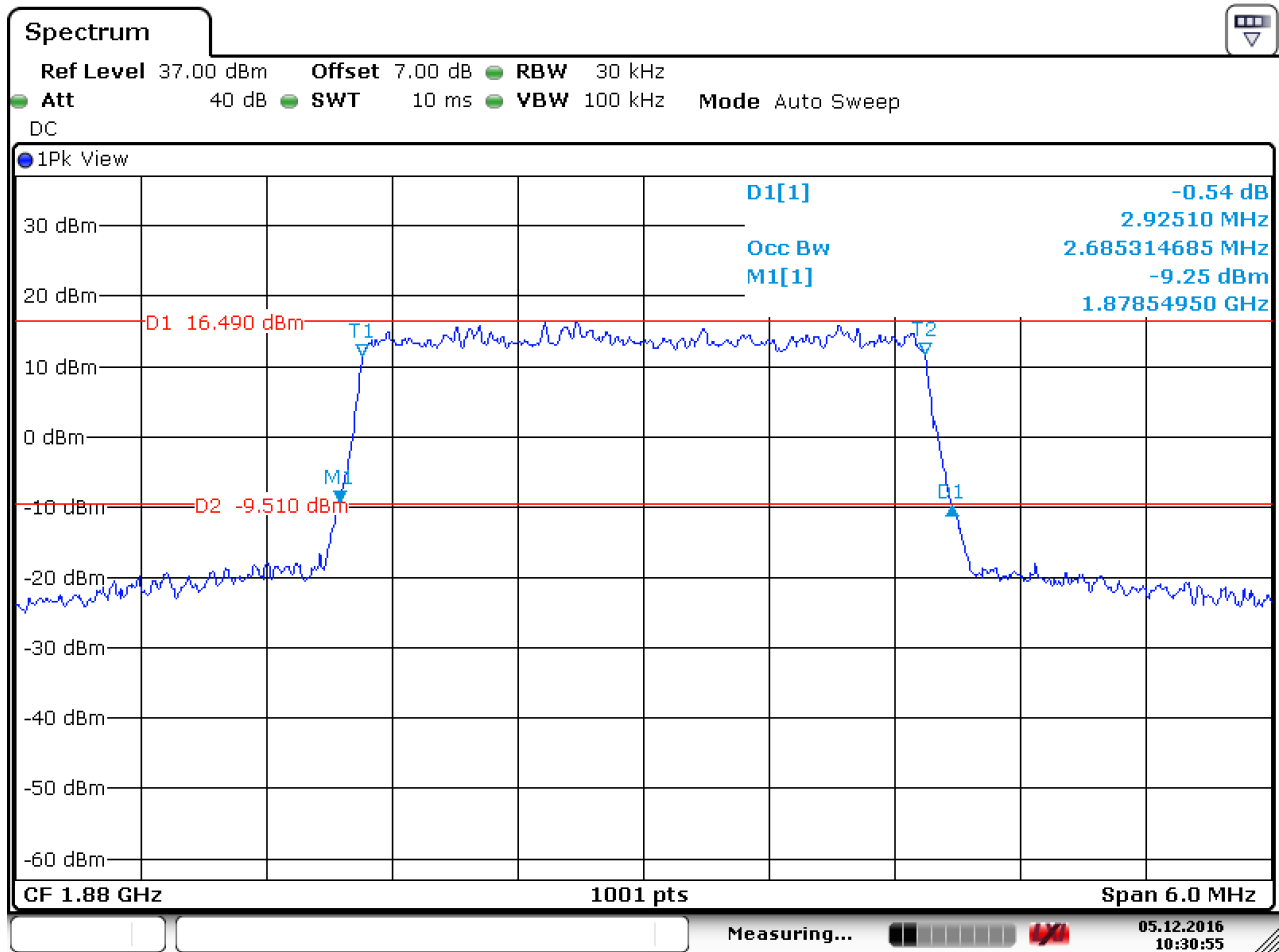
4.1.1.4.1 Test Channel = LCH



Date: 5.DEC.2016 10:32:15



4.1.1.4.2 Test Channel = MCH

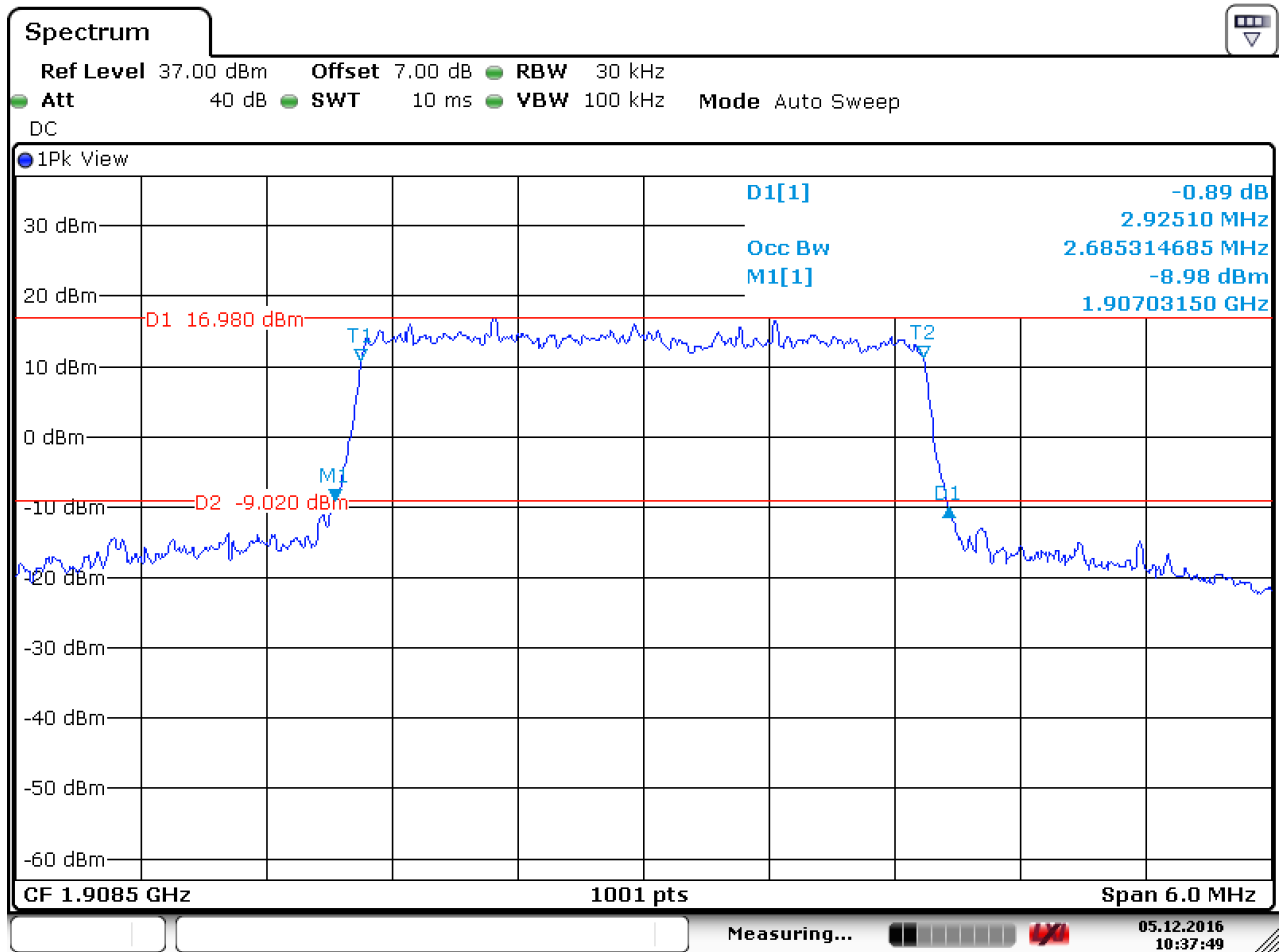


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4.1.1.4.3 Test Channel = HCH



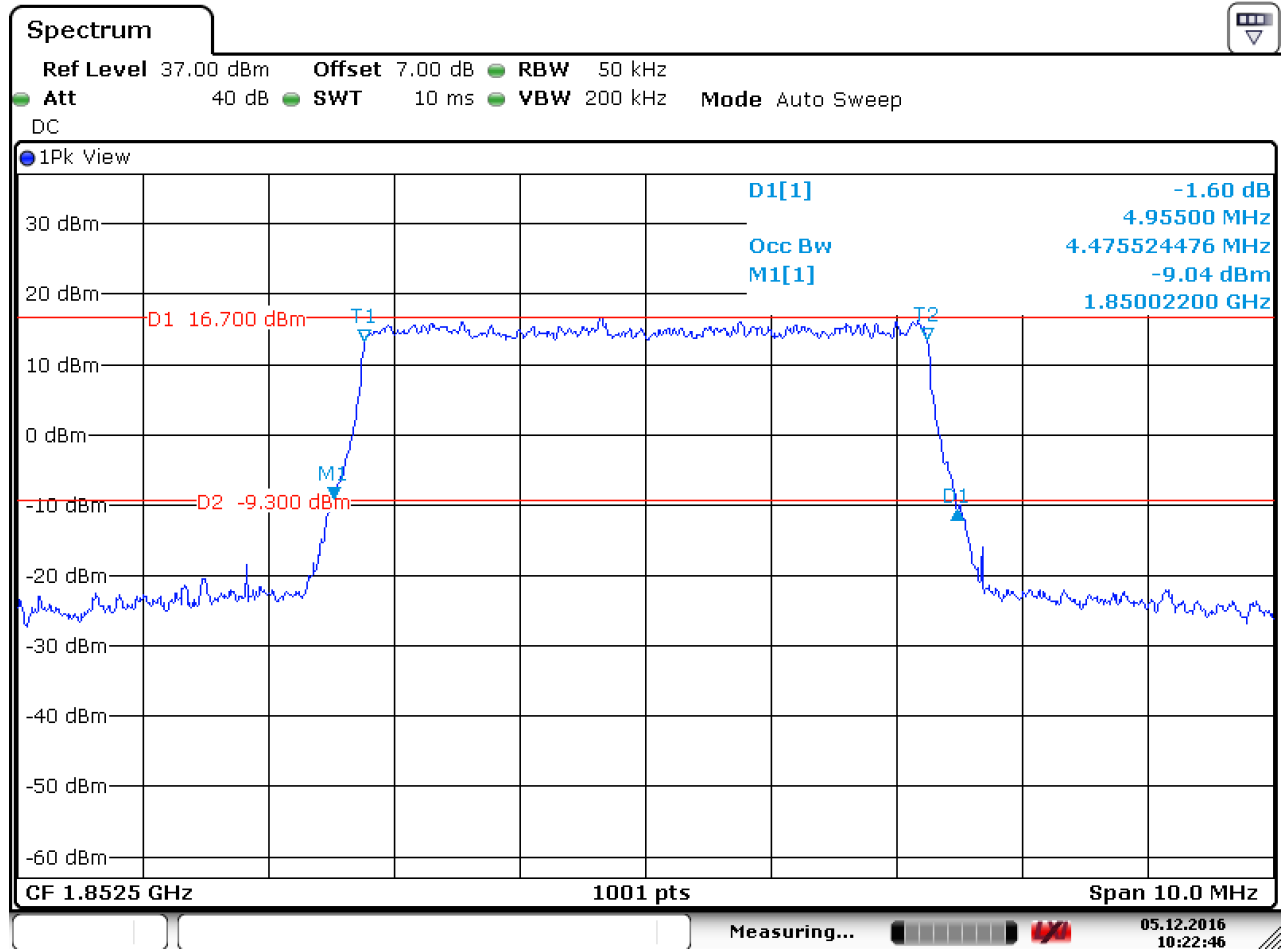
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4.1.1.5 Test Mode = LTE/TM1 5MHz

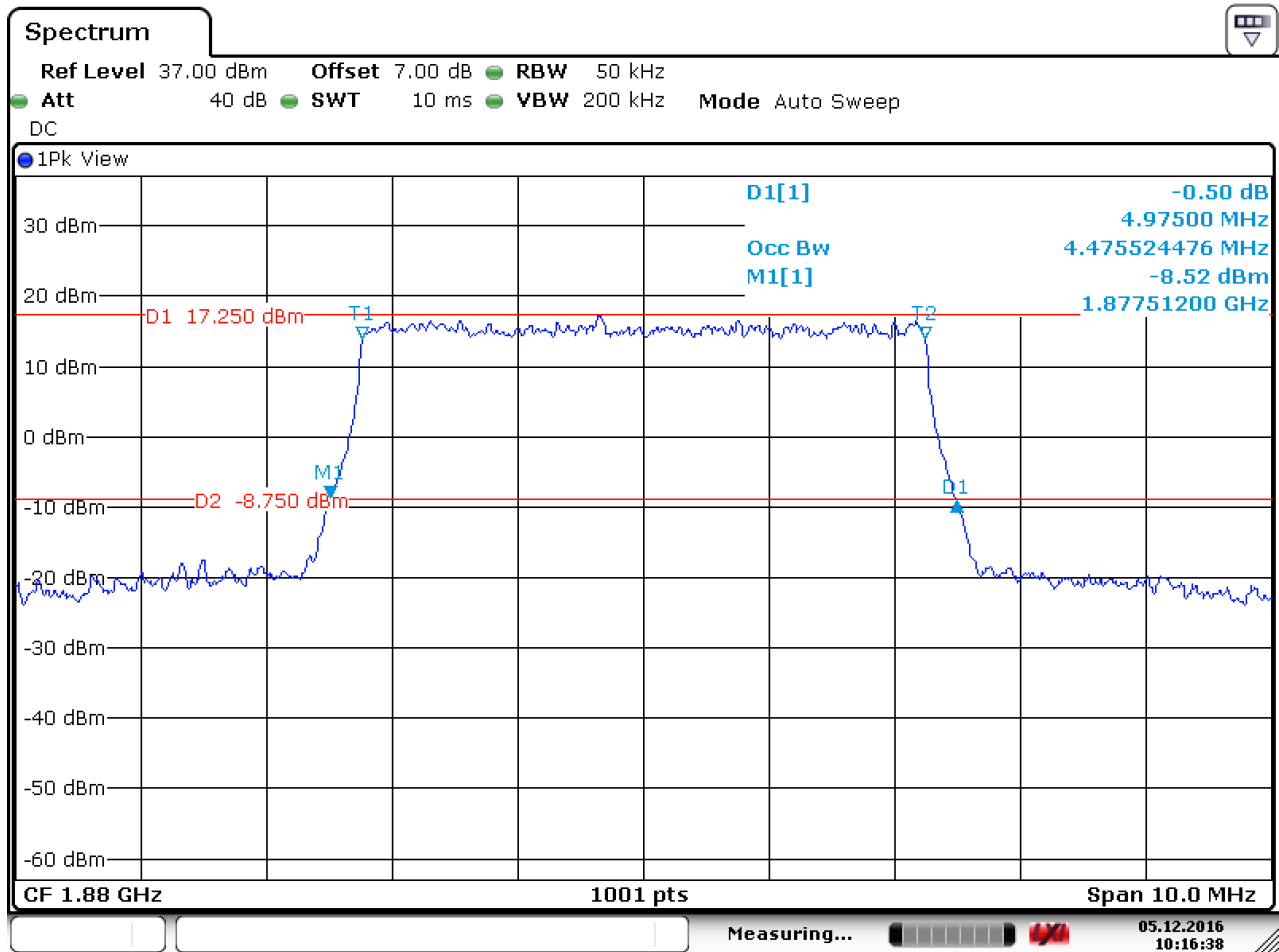
4.1.1.5.1 Test Channel = LCH



Date: 5.DEC.2016 10:22:47



4.1.1.5.2 Test Channel = MCH

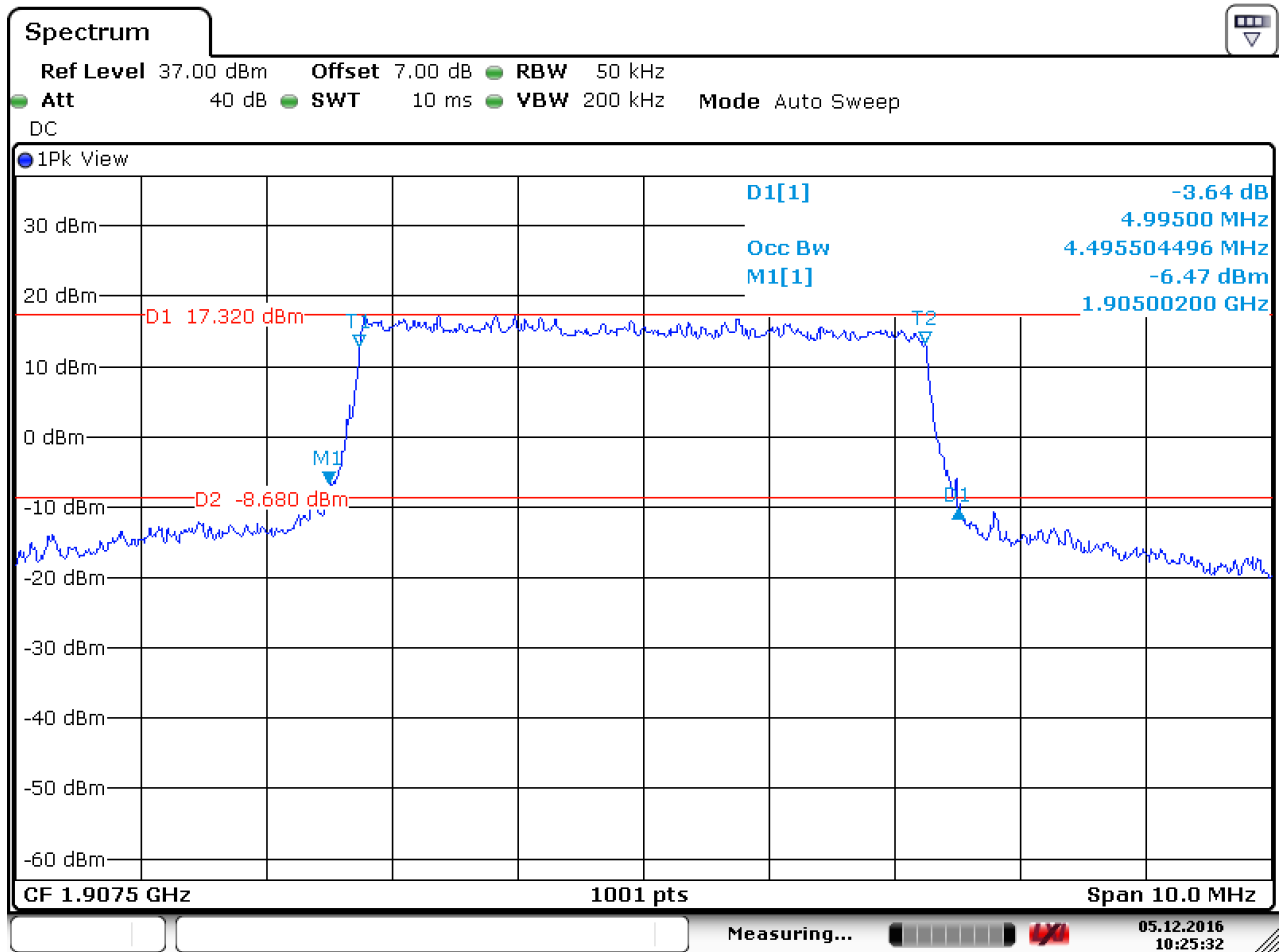


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4.1.1.5.3 Test Channel = HCH



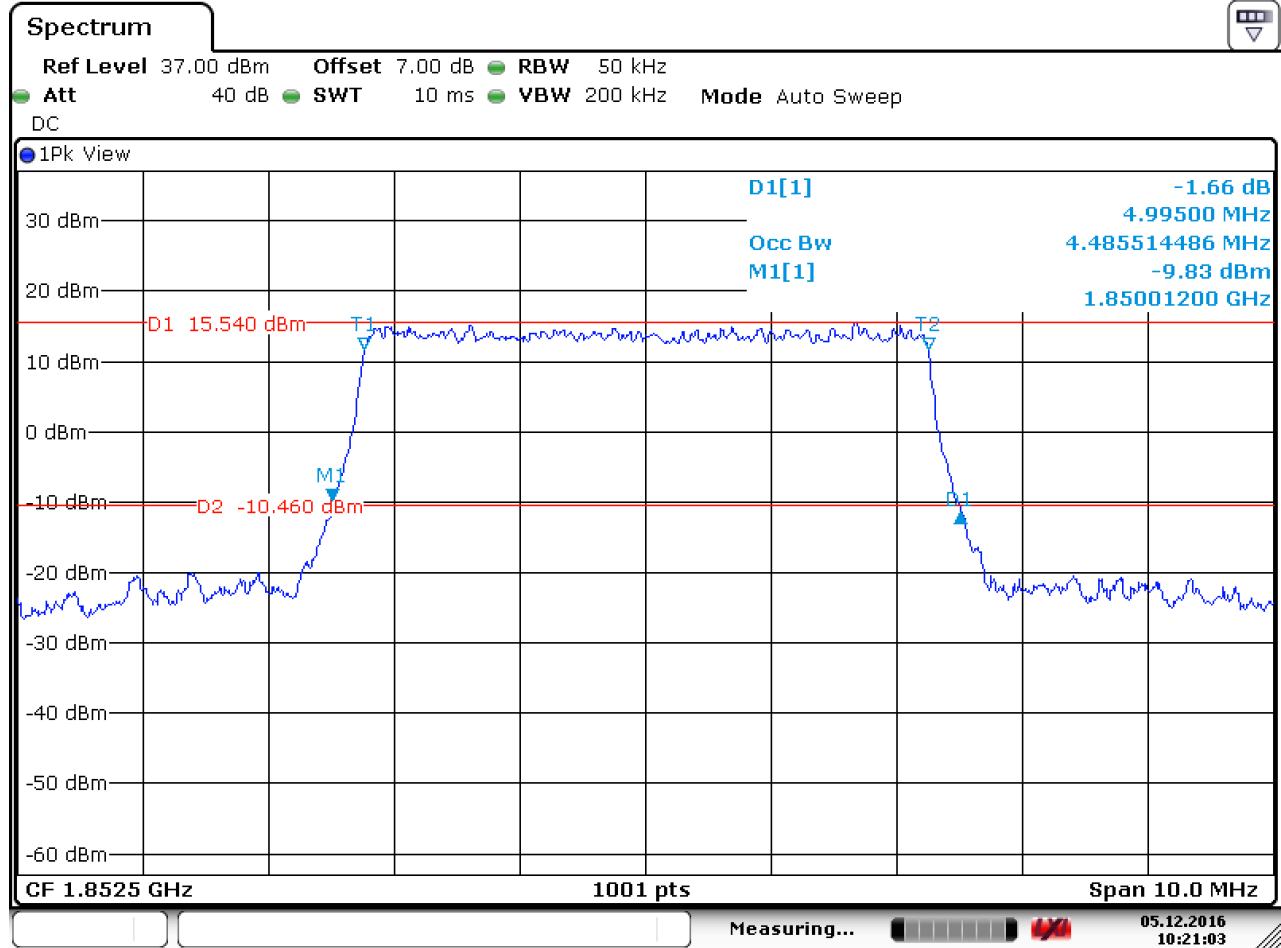
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

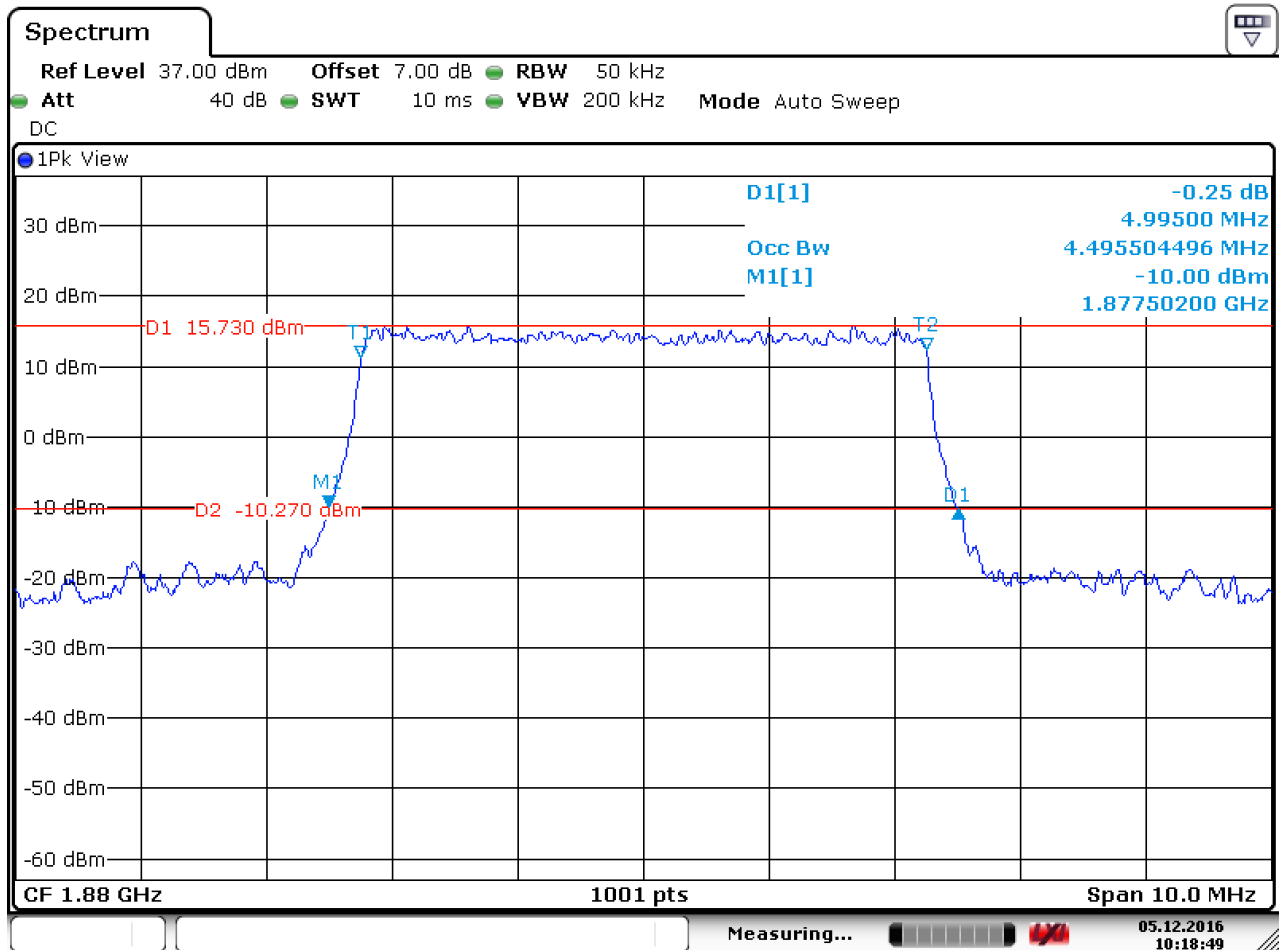


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4.1.1.6.2 Test Channel = MCH

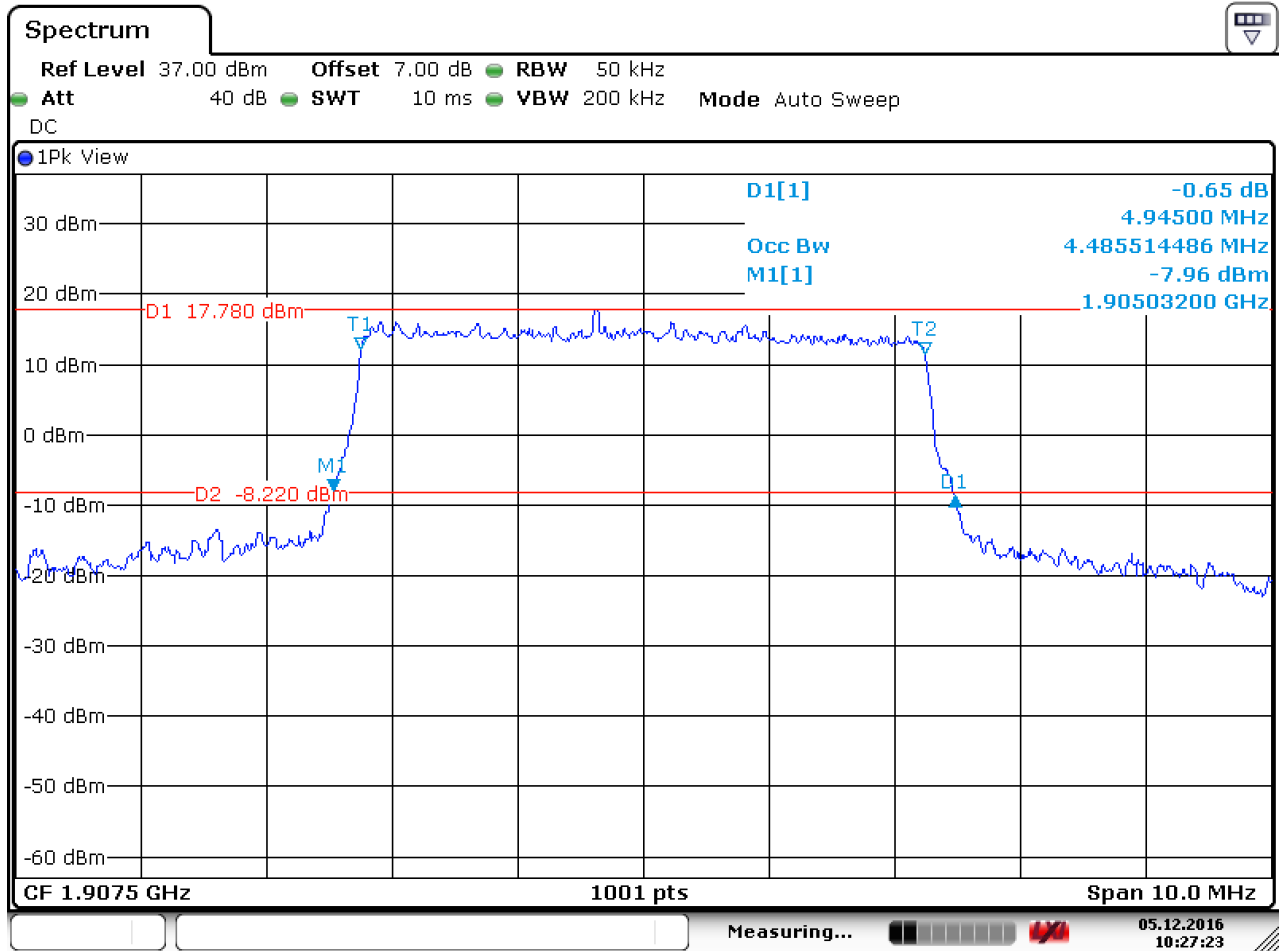


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4.1.1.6.3 Test Channel = HCH

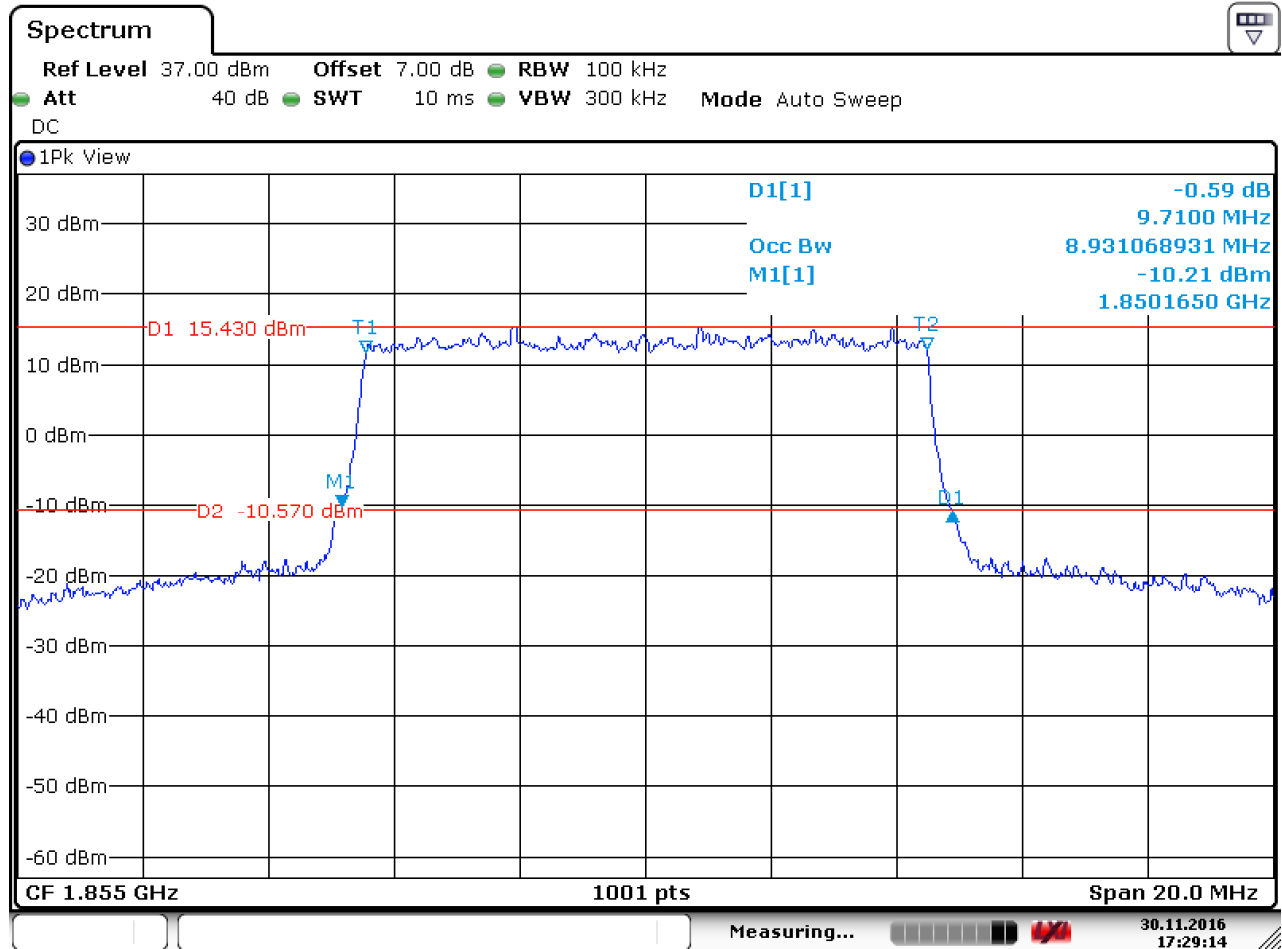


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4.1.1.7 Test Mode = LTE/TM1 10MHz

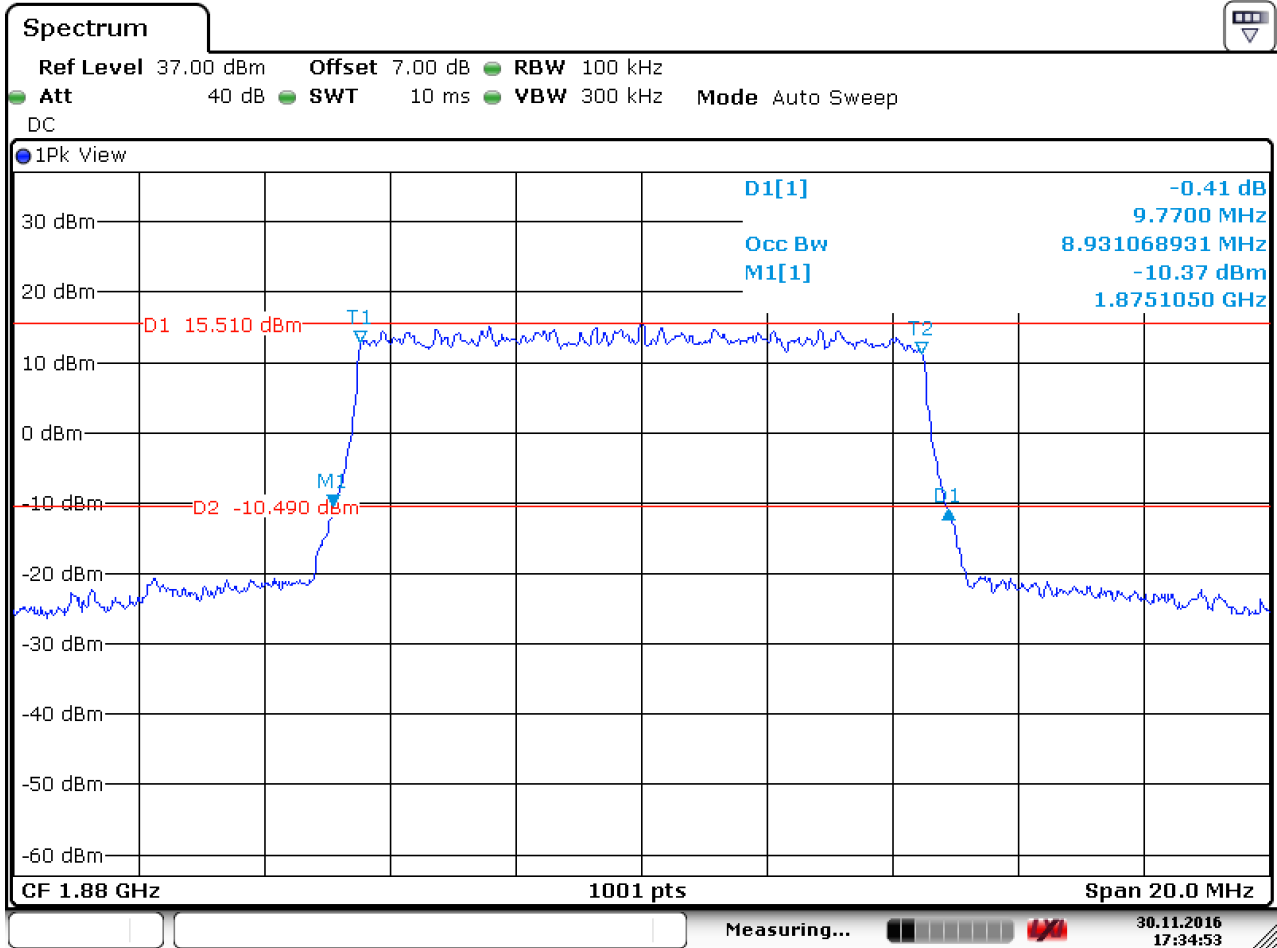
4.1.1.7.1 Test Channel = LCH



Date: 30.NOV.2016 17:29:15



4.1.1.7.2 Test Channel = MCH

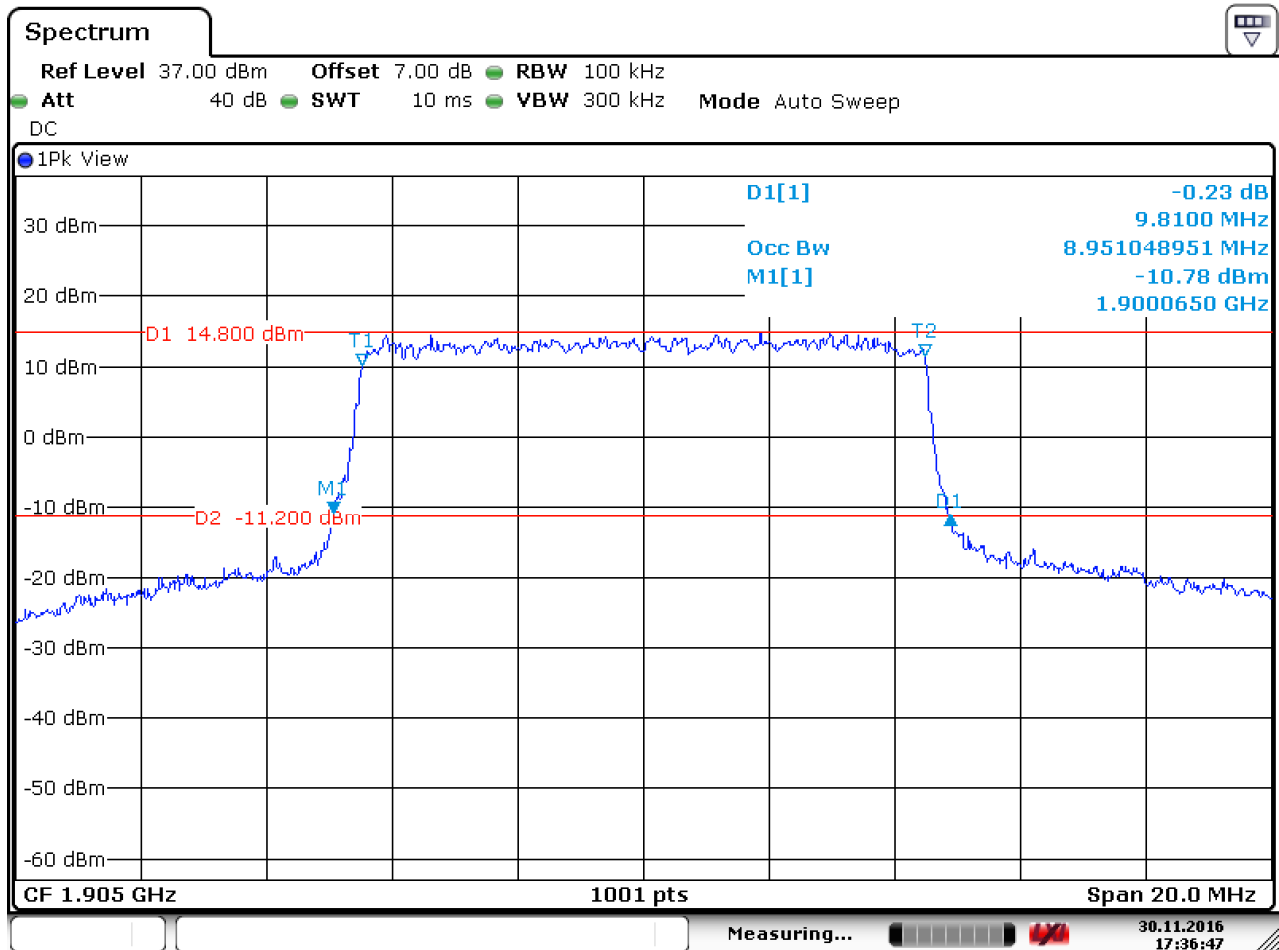


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4.1.1.7.3 Test Channel = HCH



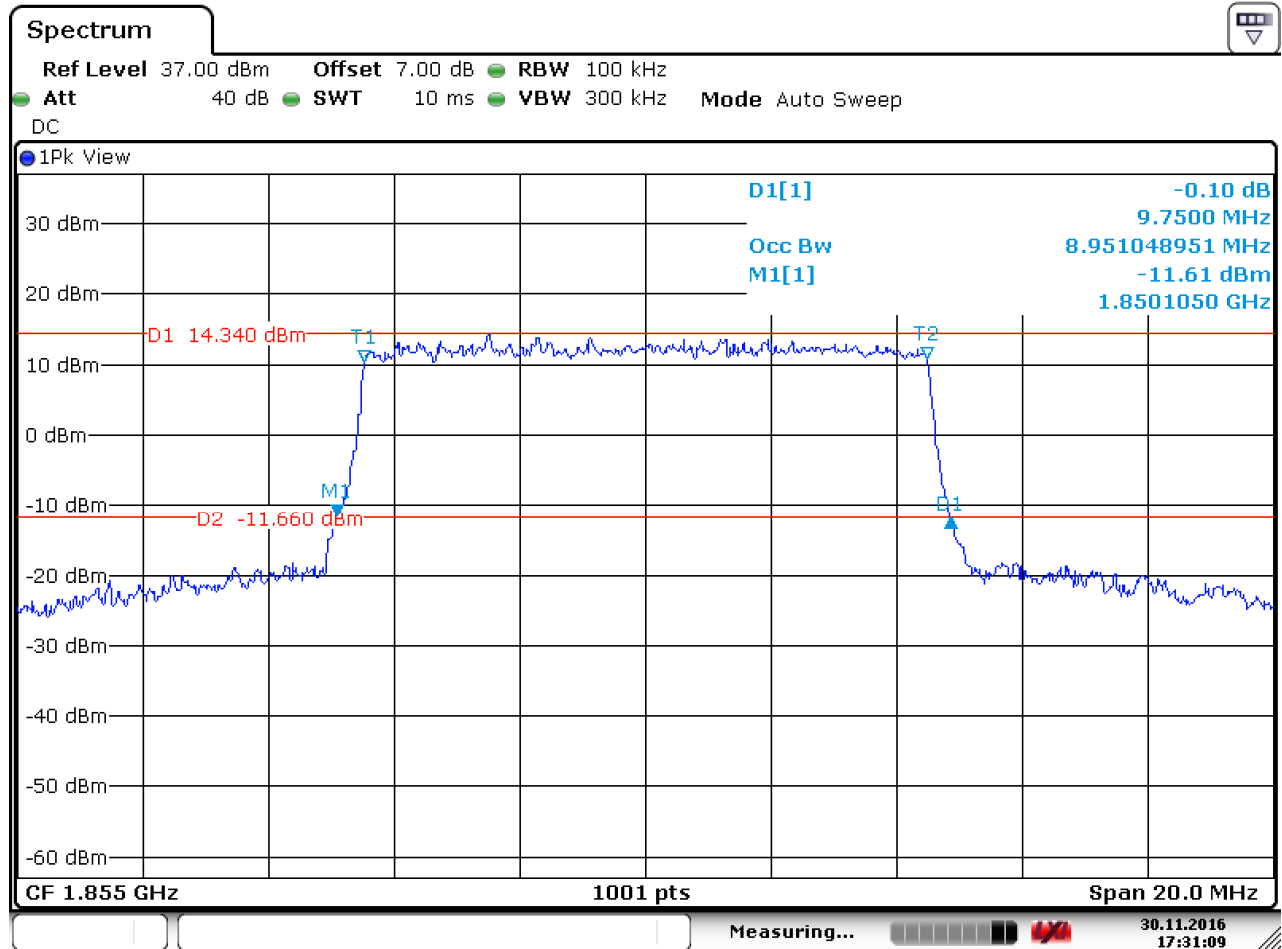
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4.1.1.8 Test Mode = LTE/TM2 10MHz

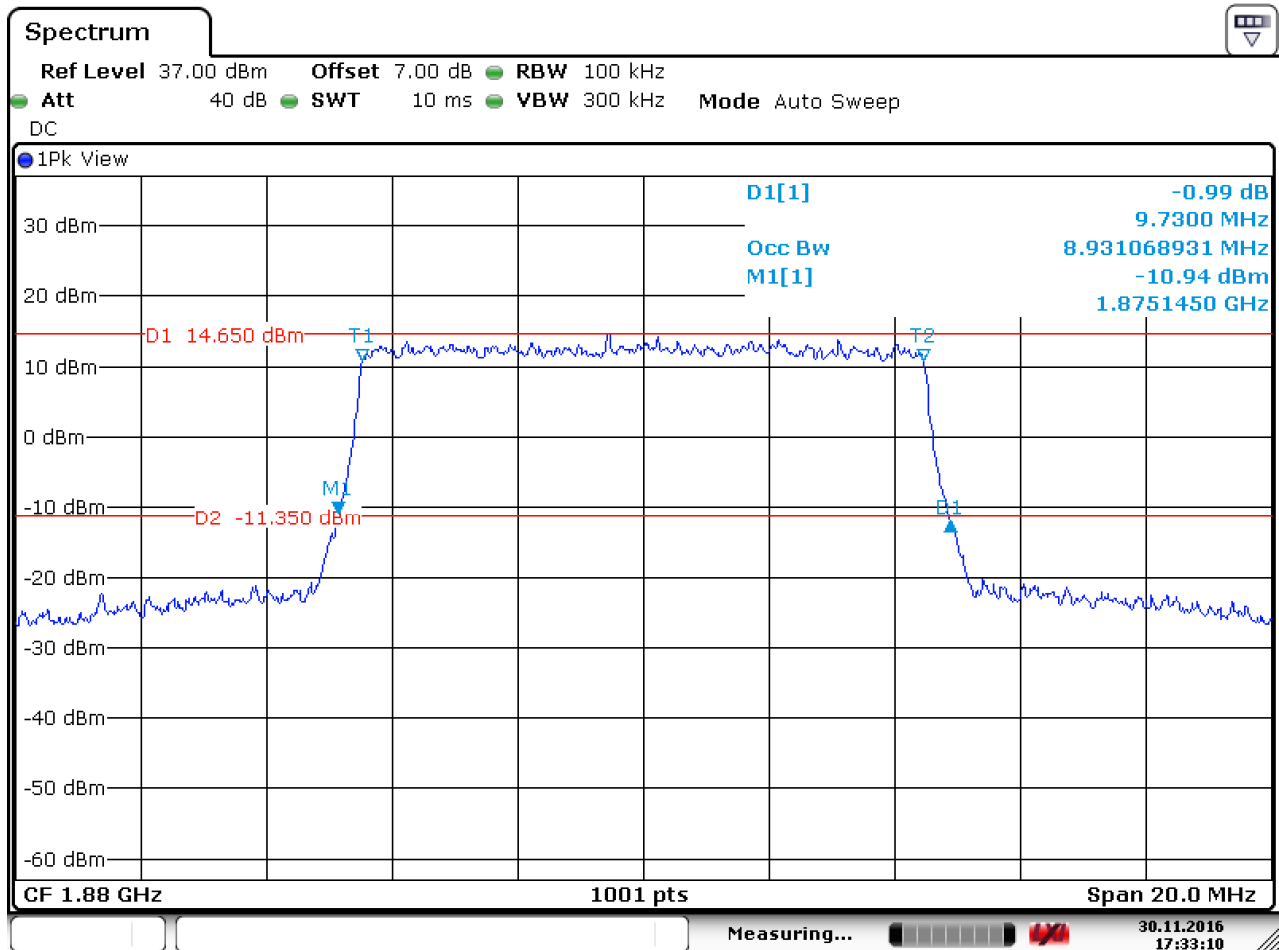
4.1.1.8.1 Test Channel = LCH



Date: 30.NOV.2016 17:31:09



4.1.1.8.2 Test Channel = MCH

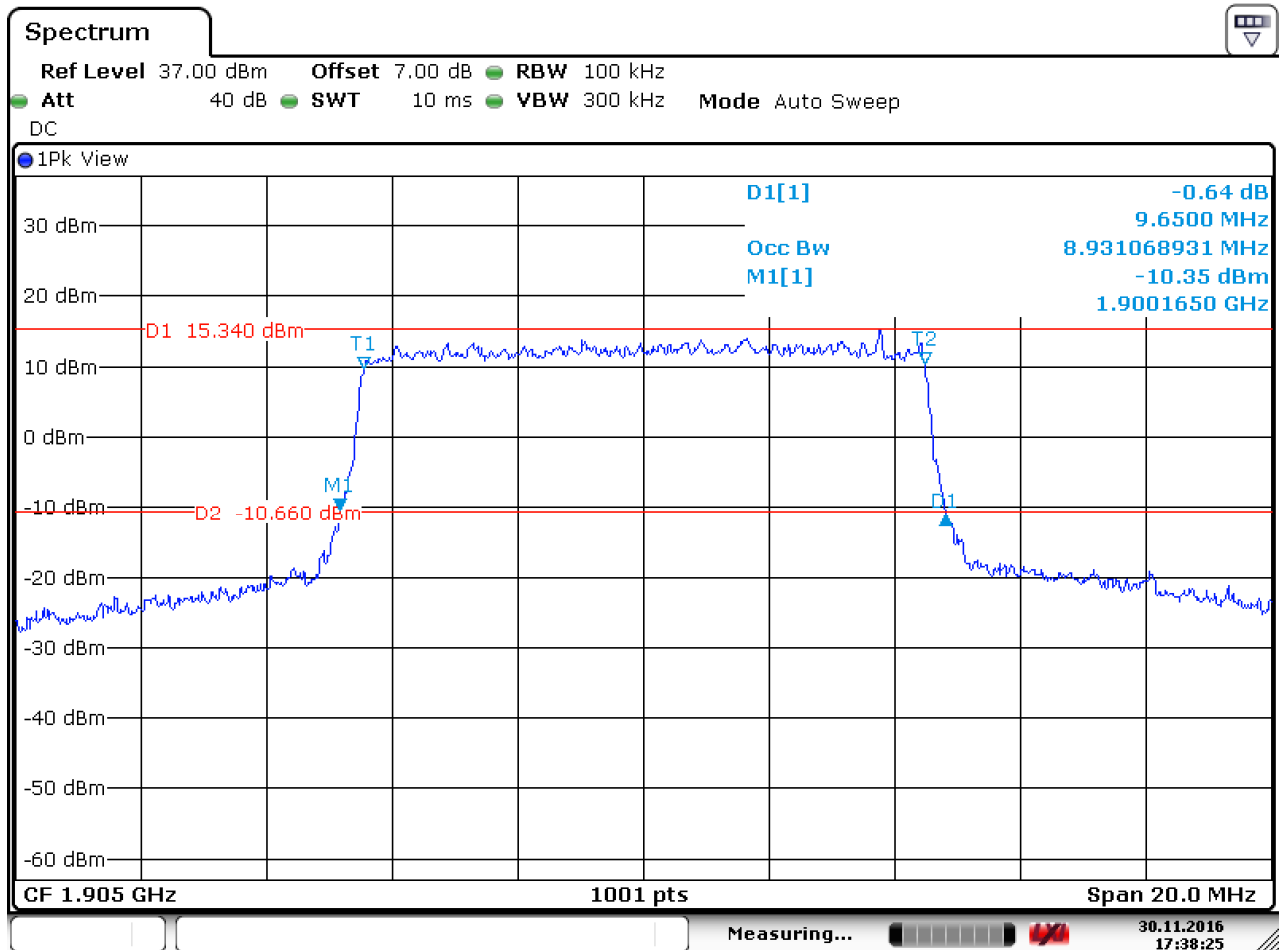


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4.1.1.8.3 Test Channel = HCH

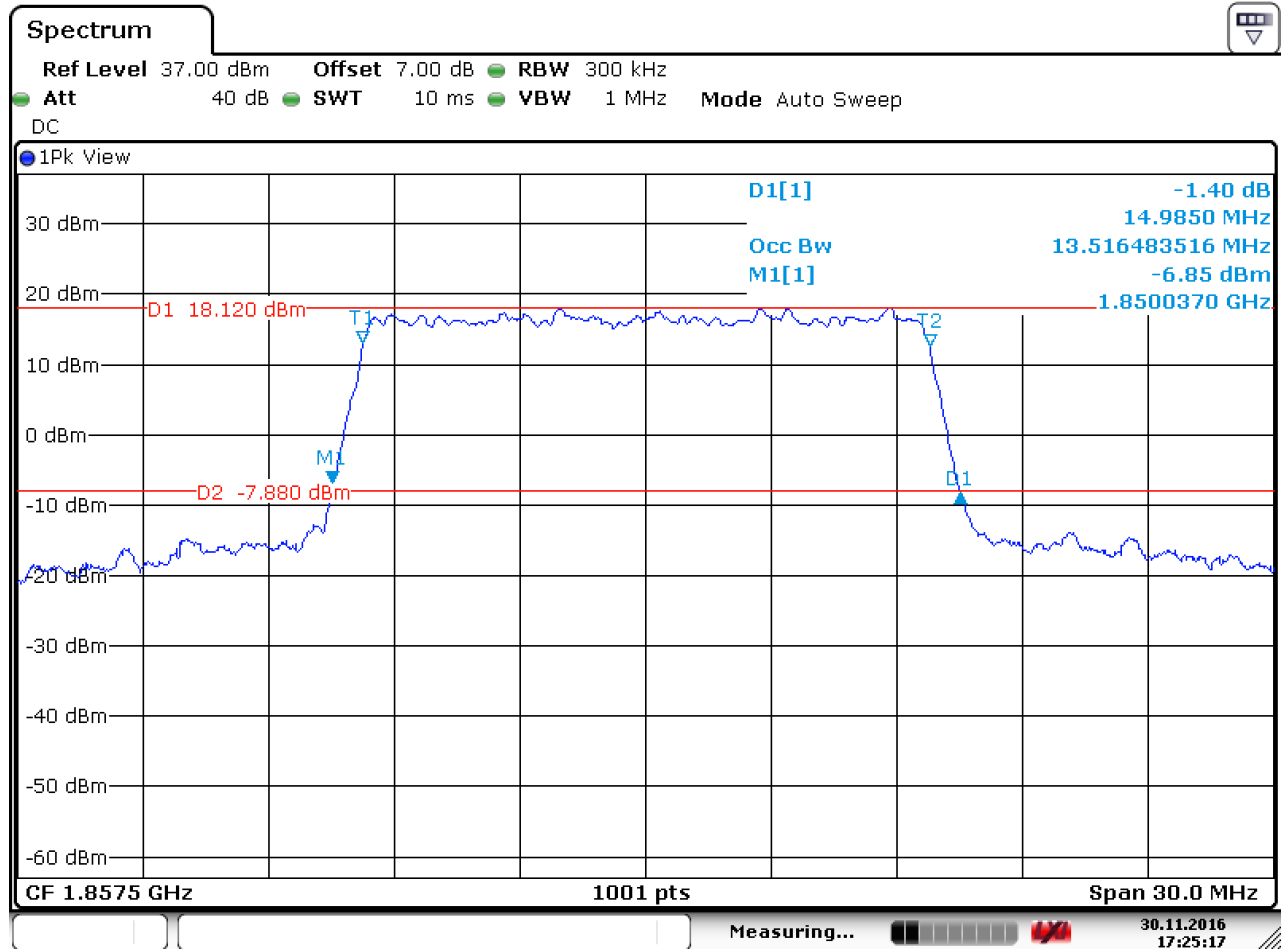


Date: 30.NOV.2016 17:38:26

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4.1.1.9 Test Mode = LTE/TM1 15MHz

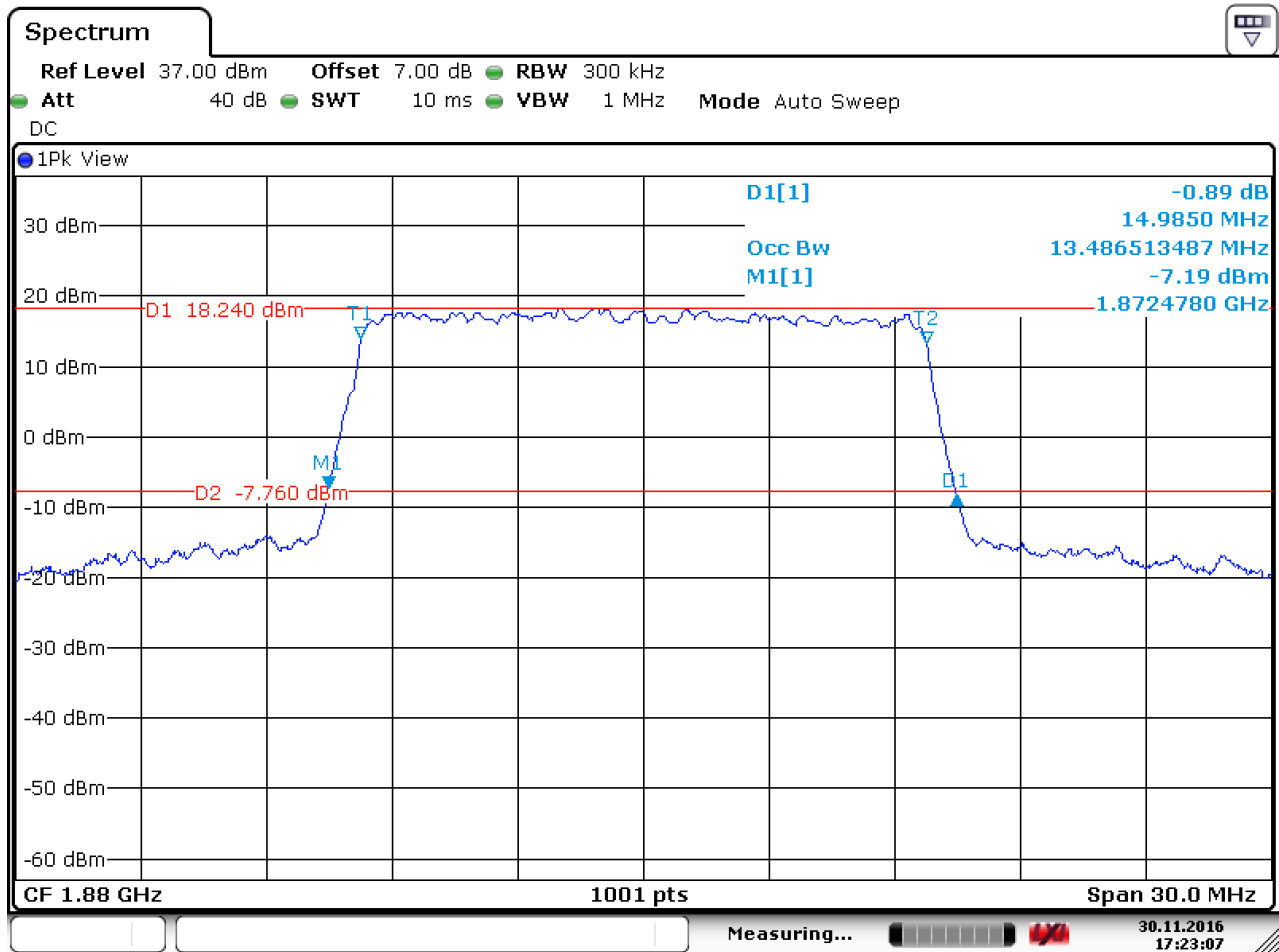
4.1.1.9.1 Test Channel = LCH



Date: 30.NOV.2016 17:25:17



4.1.1.9.2 Test Channel = MCH

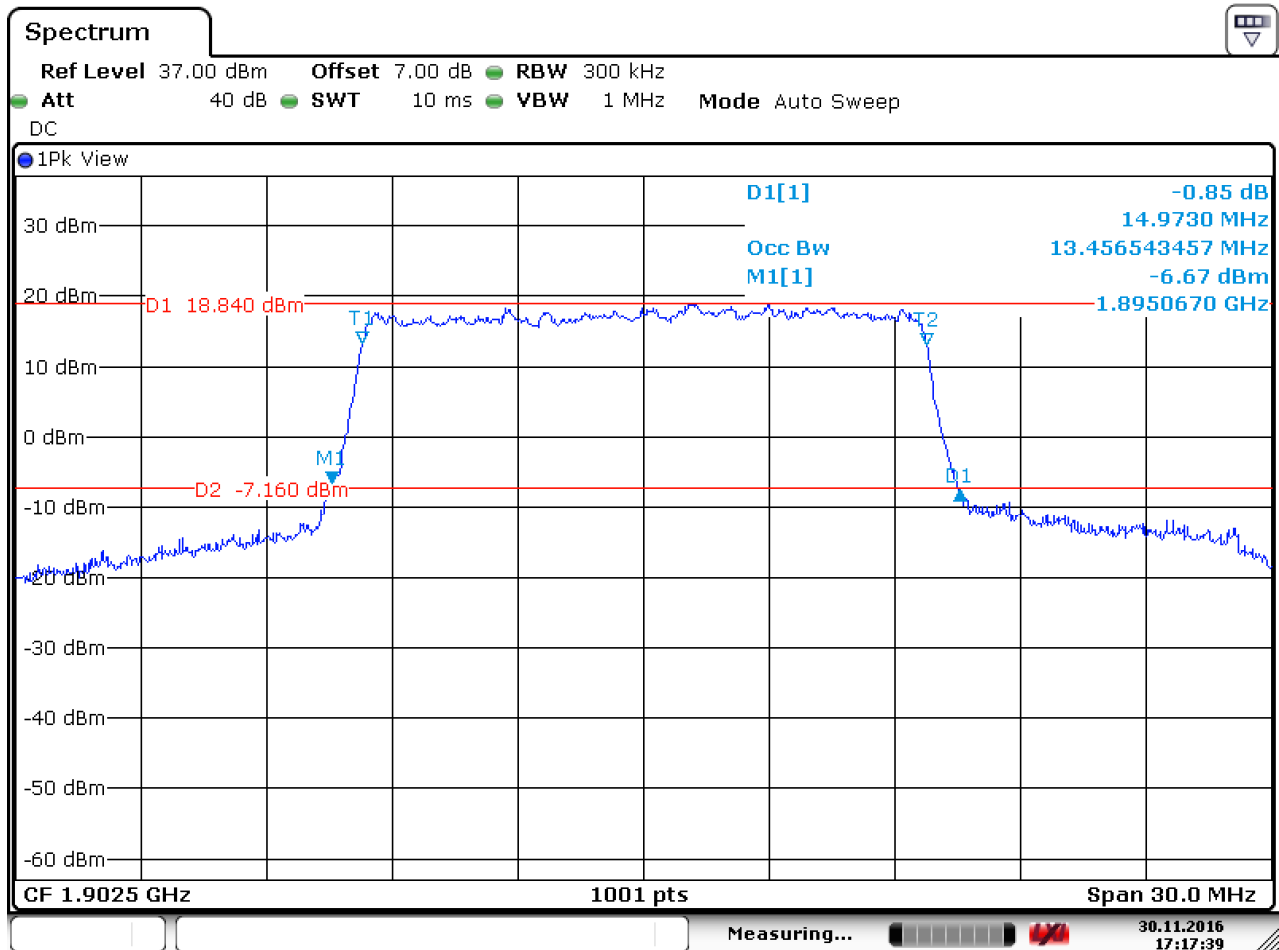


Date: 30.NOV.2016 17:23:08

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4.1.1.9.3 Test Channel = HCH



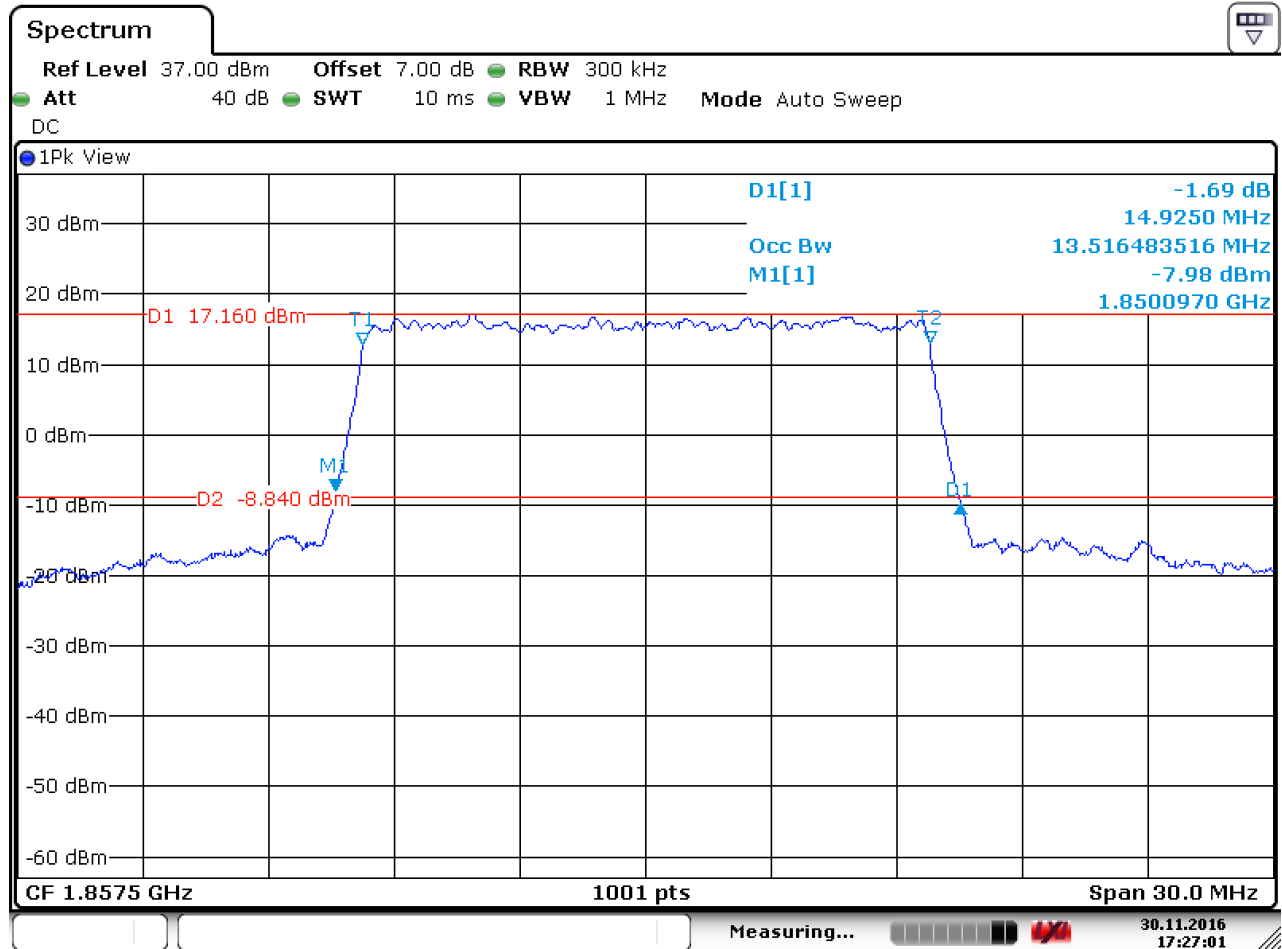
Date: 30.NOV.2016 17:17:39

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4.1.1.10 Test Mode = LTE/TM2 15MHz

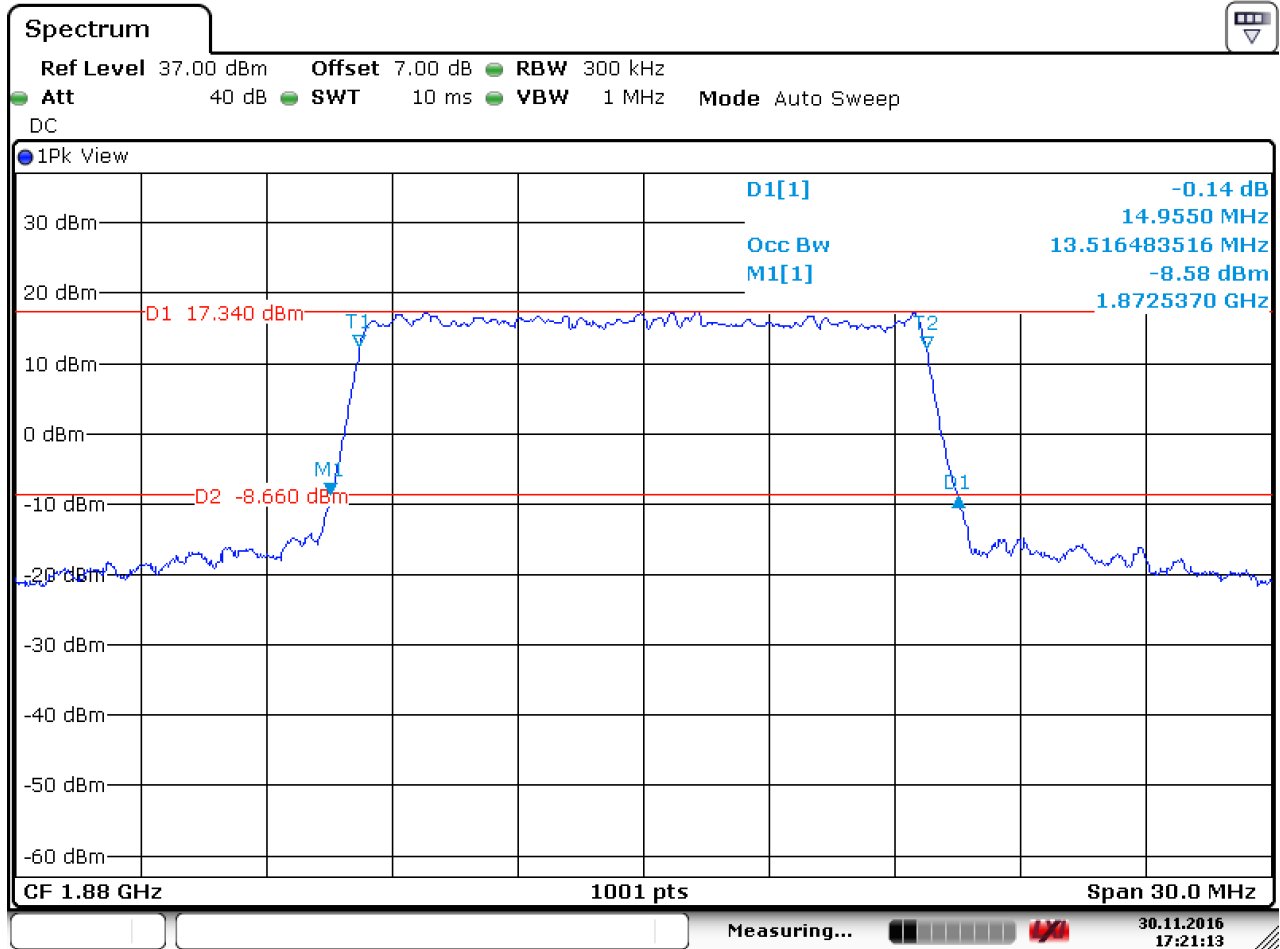
4.1.1.10.1 Test Channel = LCH



Date: 30.NOV.2016 17:27:01



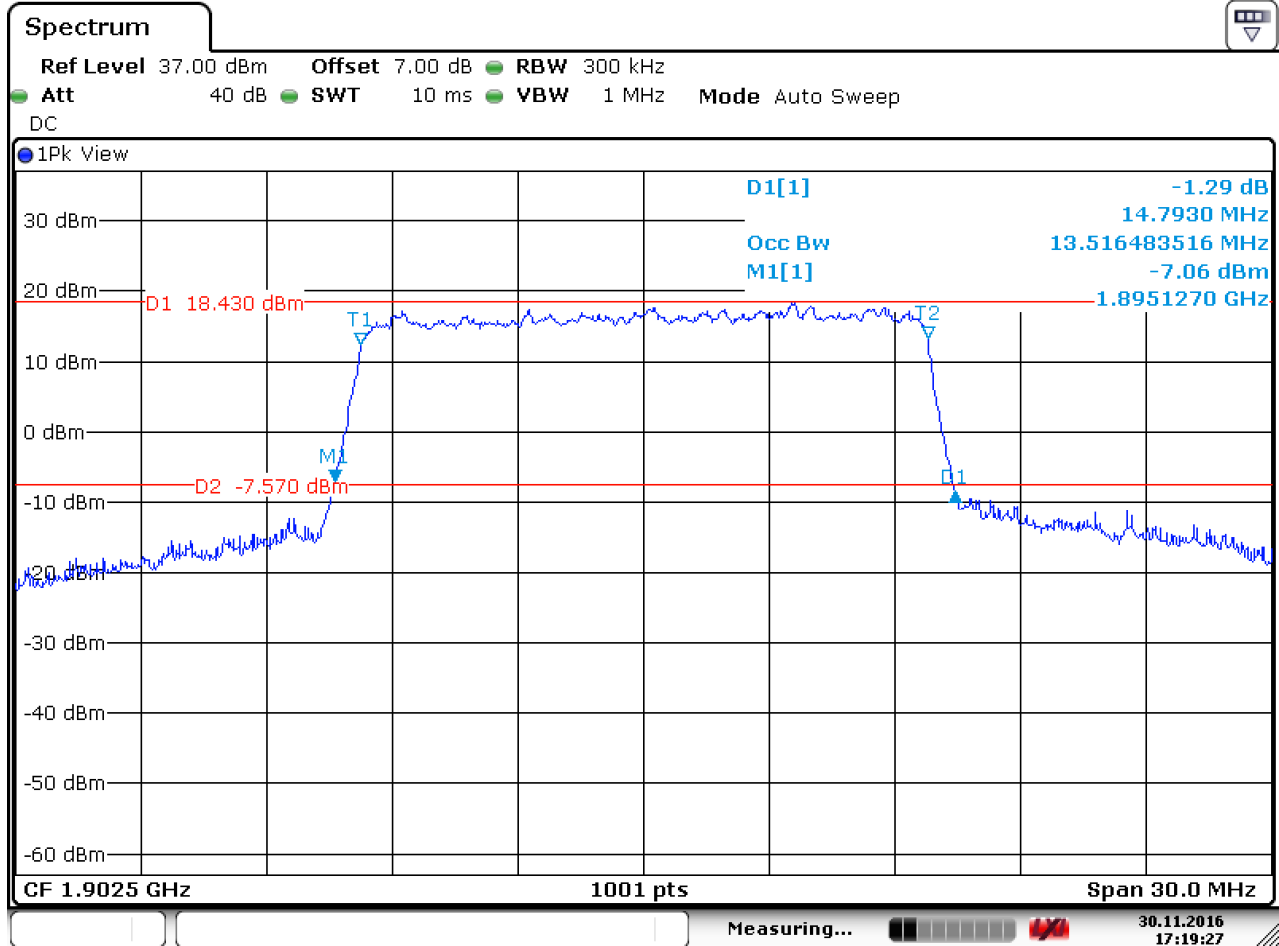
4.1.1.10.2 Test Channel = MCH



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4.1.1.10.3 Test Channel = HCH

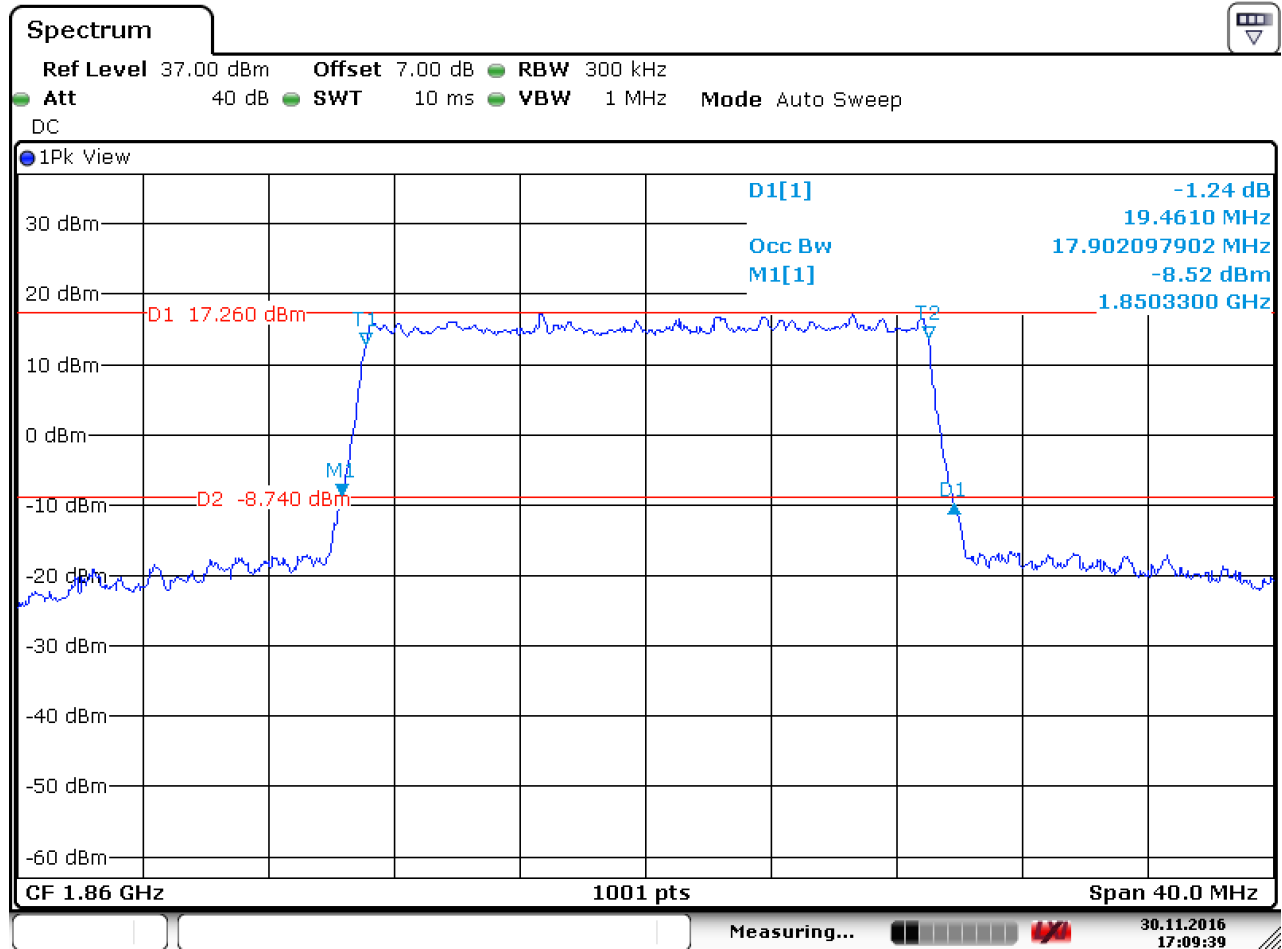


Date: 30.NOV.2016 17:19:28



4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

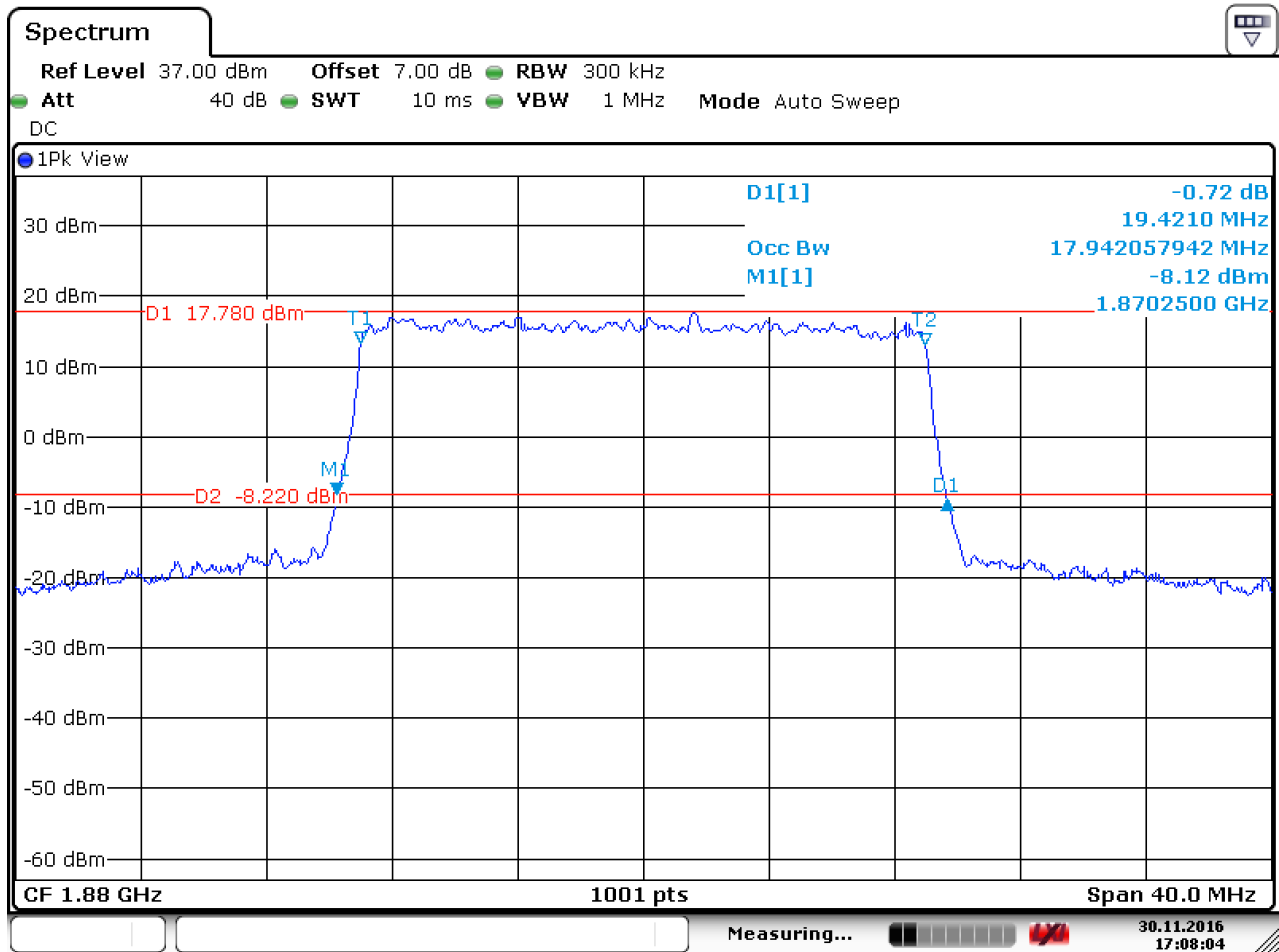


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4.1.1.11.2 Test Channel = MCH

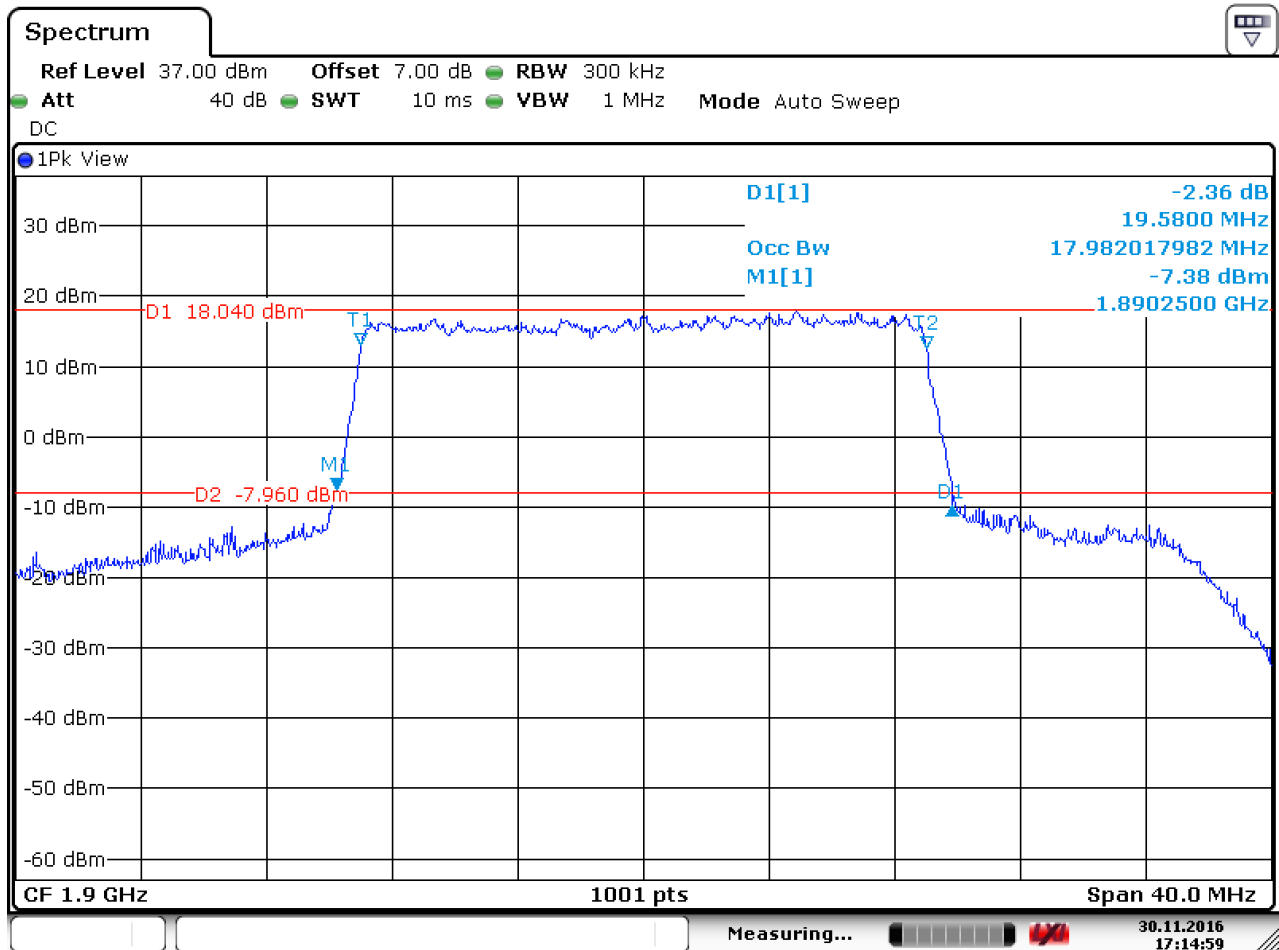


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4.1.1.11.3 Test Channel = HCH

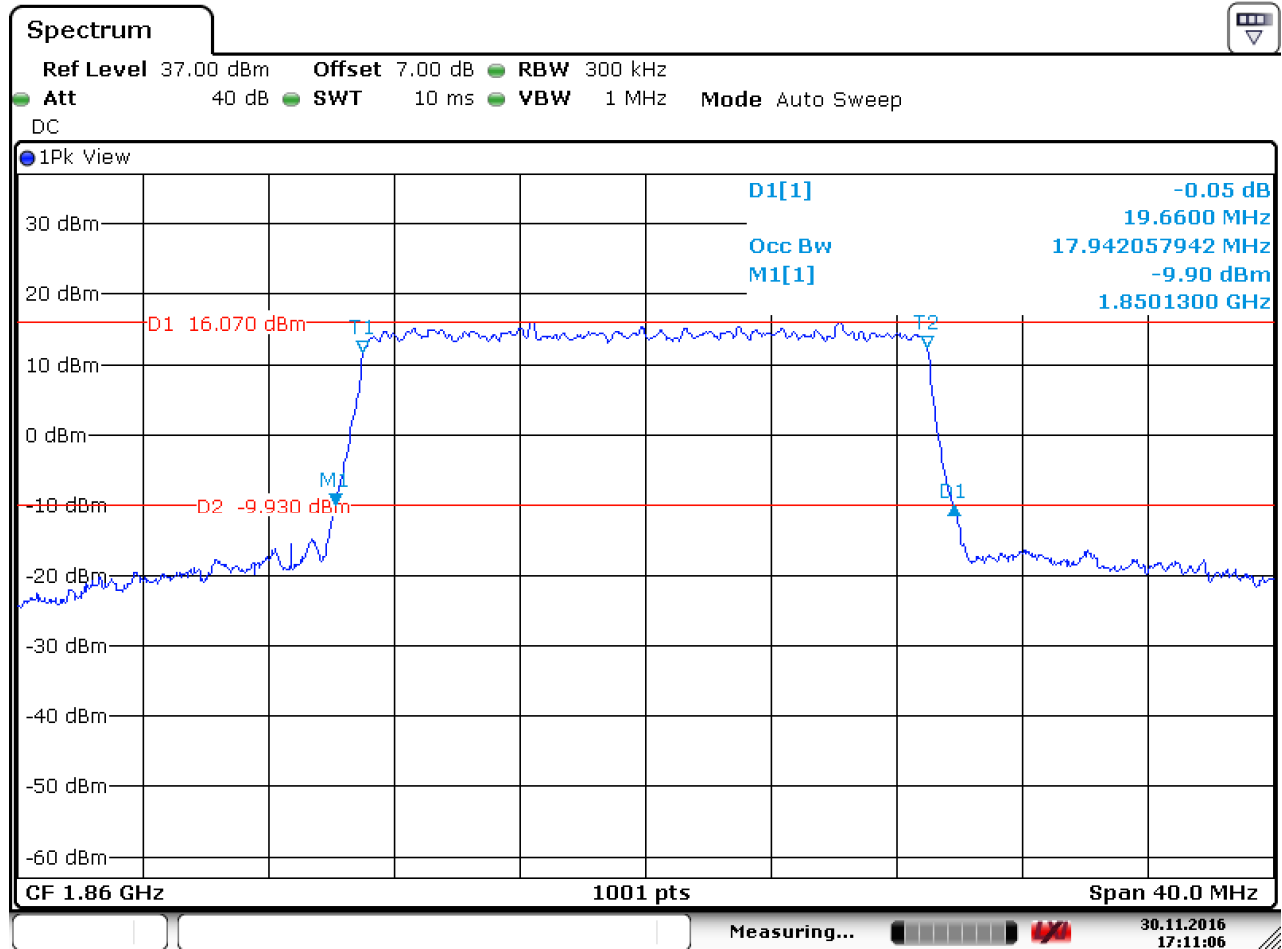


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4.1.1.12 Test Mode = LTE/TM2 20MHz

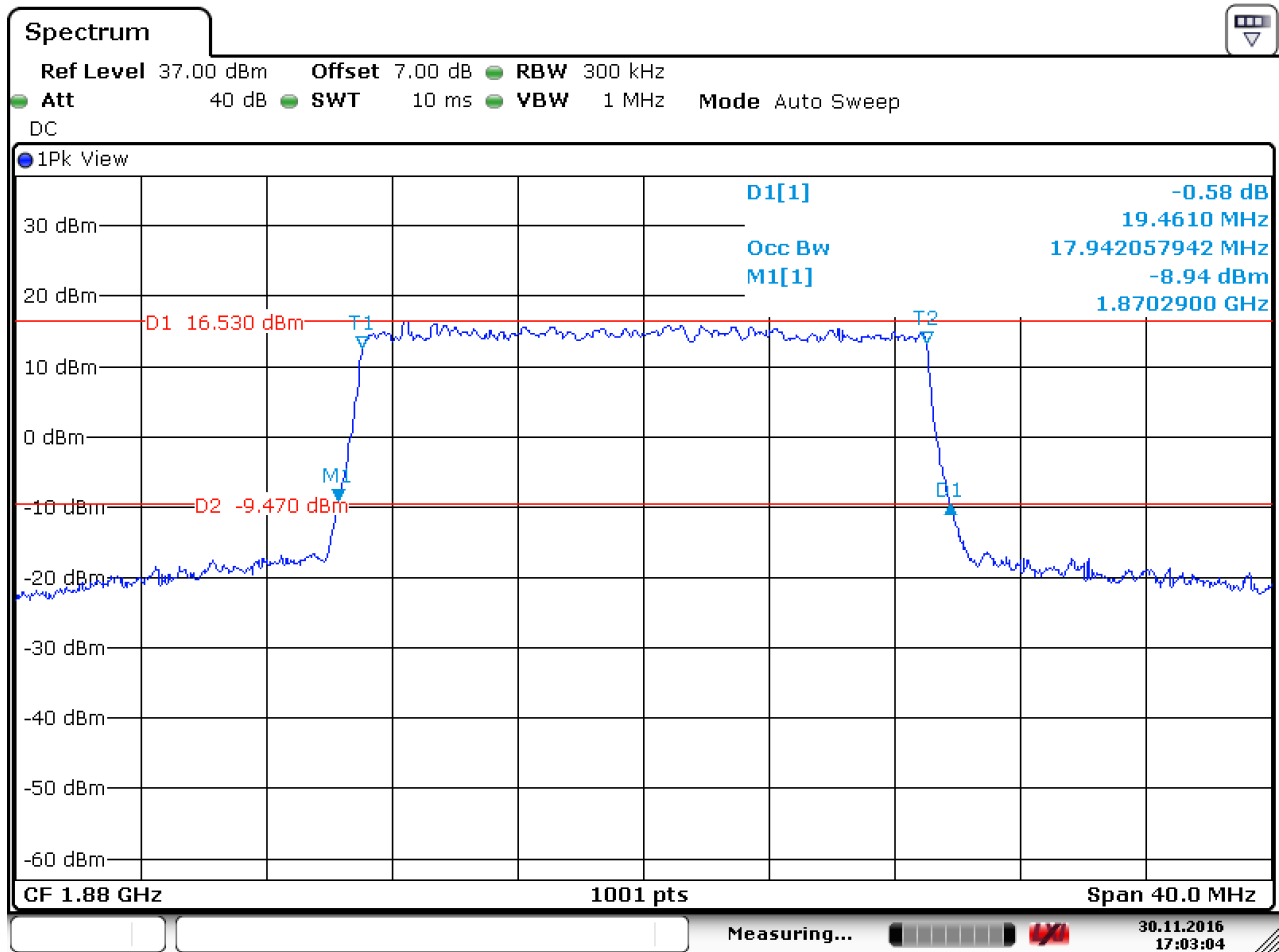
4.1.1.12.1 Test Channel = LCH



Date: 30.NOV.2016 17:11:07



4.1.1.12.2 Test Channel = MCH

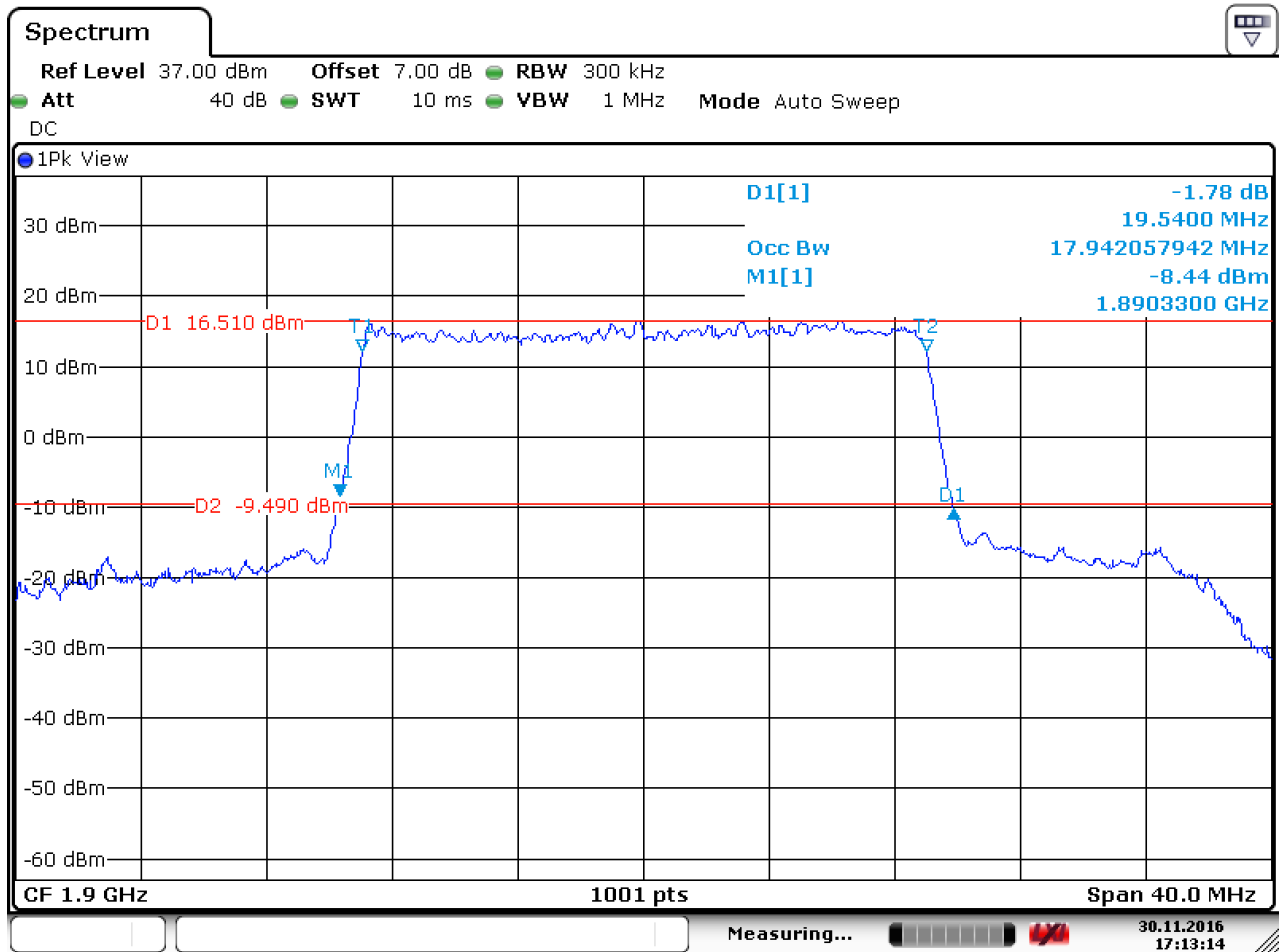


Date: 30.NOV.2016 17:03:04

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4.1.1.12.3 Test Channel = HCH



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5 Band Edges Compliance

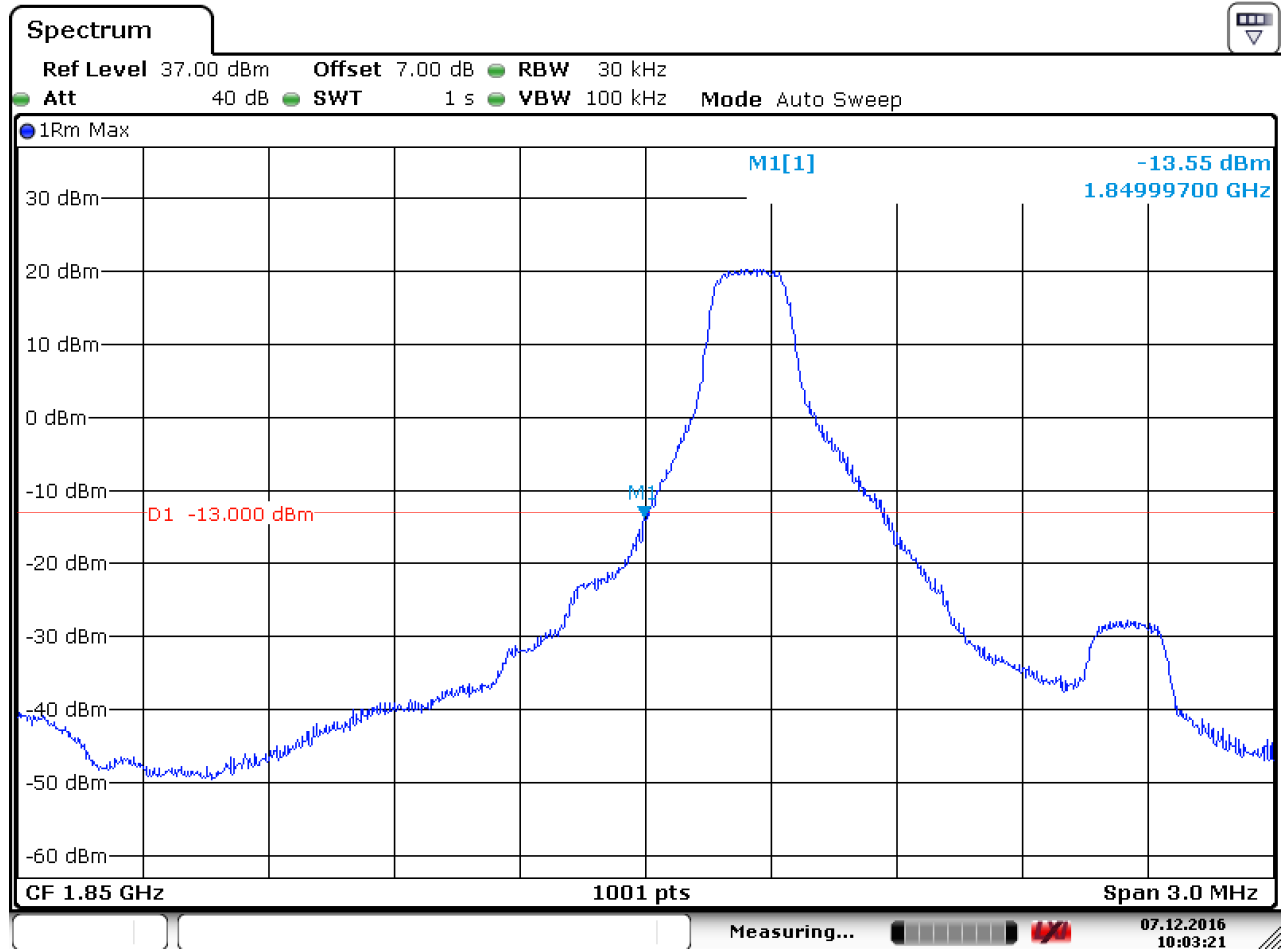
5.1 For LTE

5.1.1 Test Band = LTE band2

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

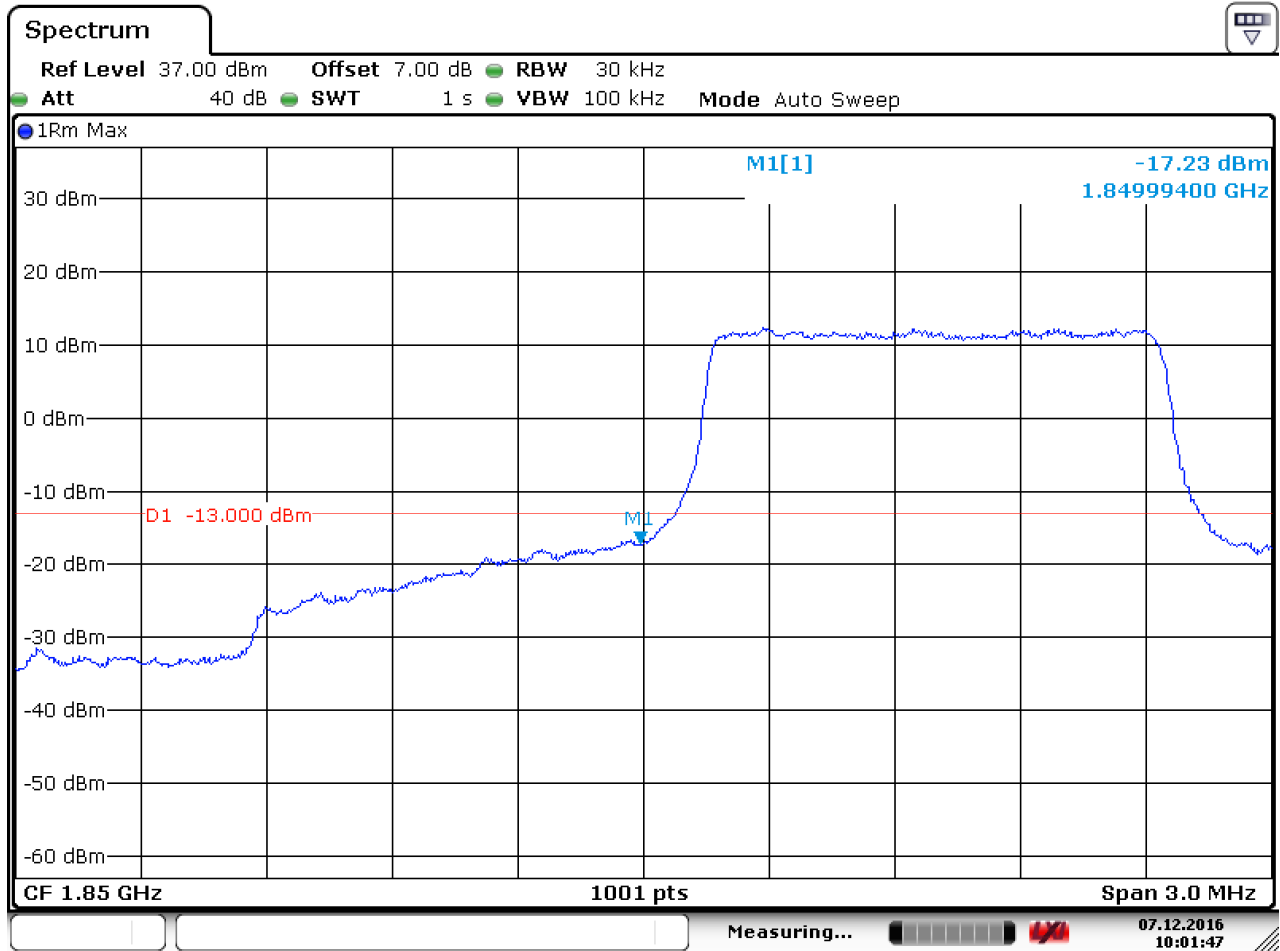
5.1.1.1.1.1 Test RB=1RB



Date: 7.DEC.2016 10:03:22



5.1.1.1.2 Test RB=6RB

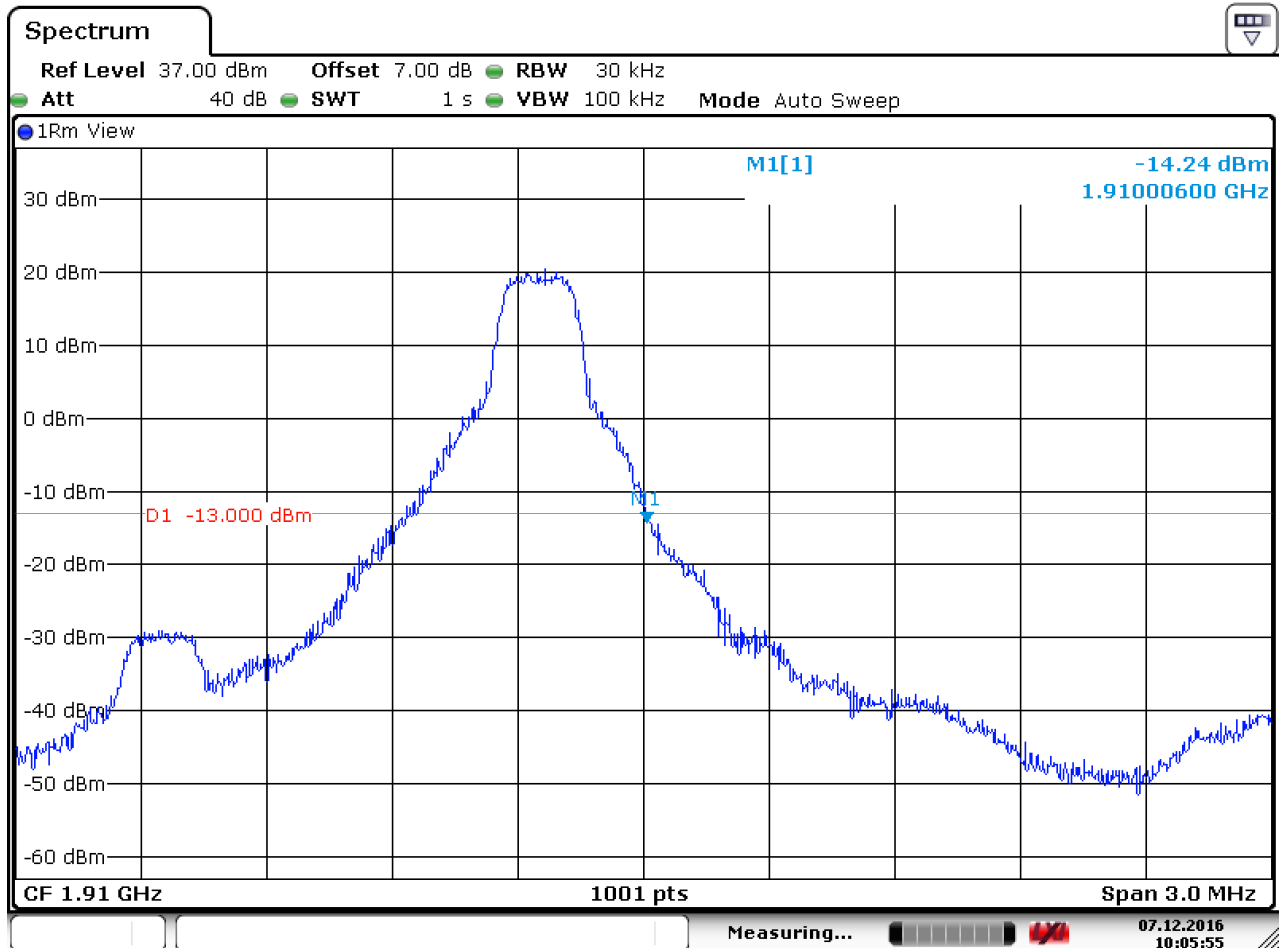


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5.1.1.1.2 Test Channel = HCH

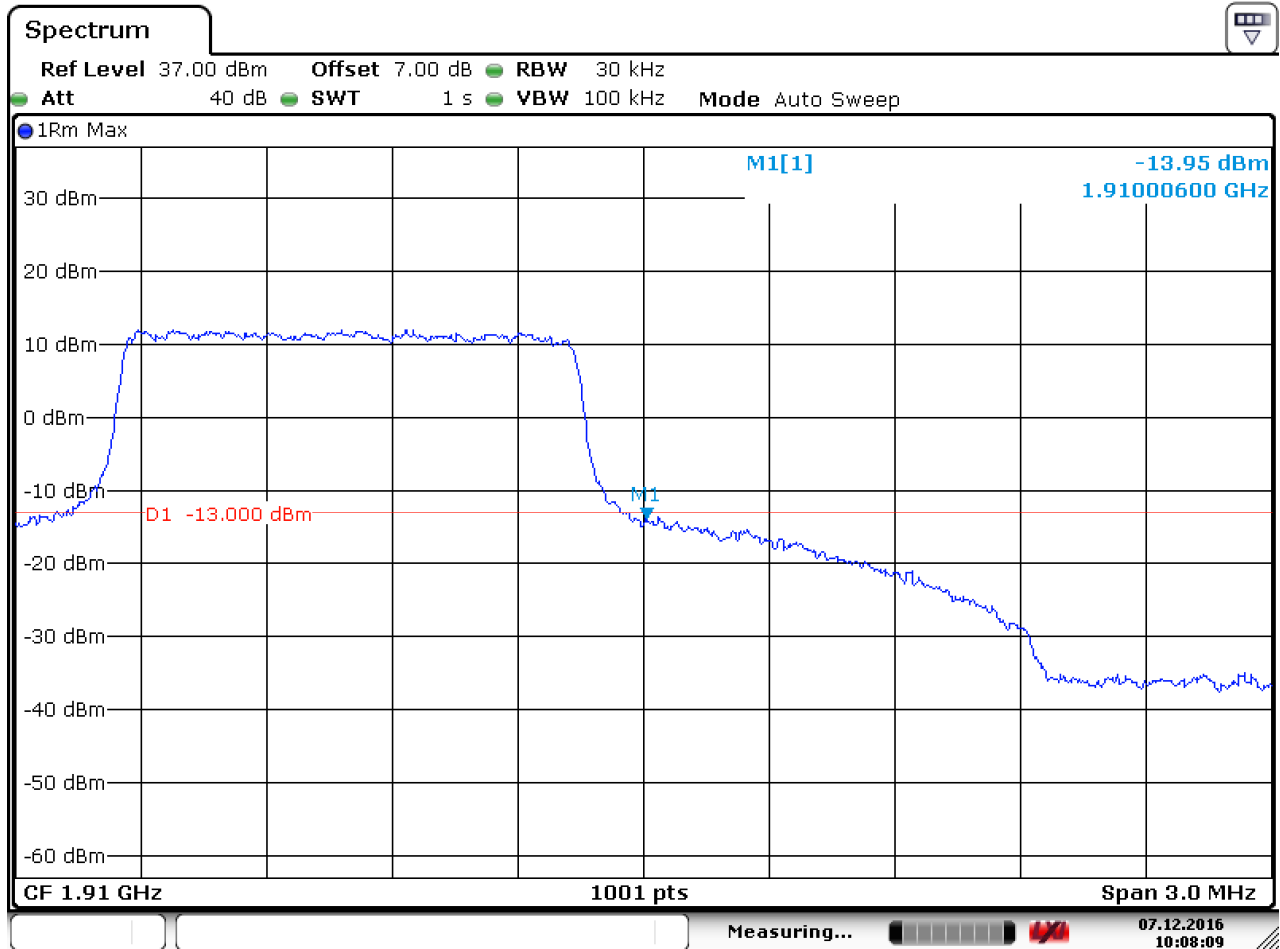
5.1.1.1.2.1 Test RB=1RB



Date: 7.DEC.2016 10:05:55



5.1.1.1.2.2 Test RB=6RB



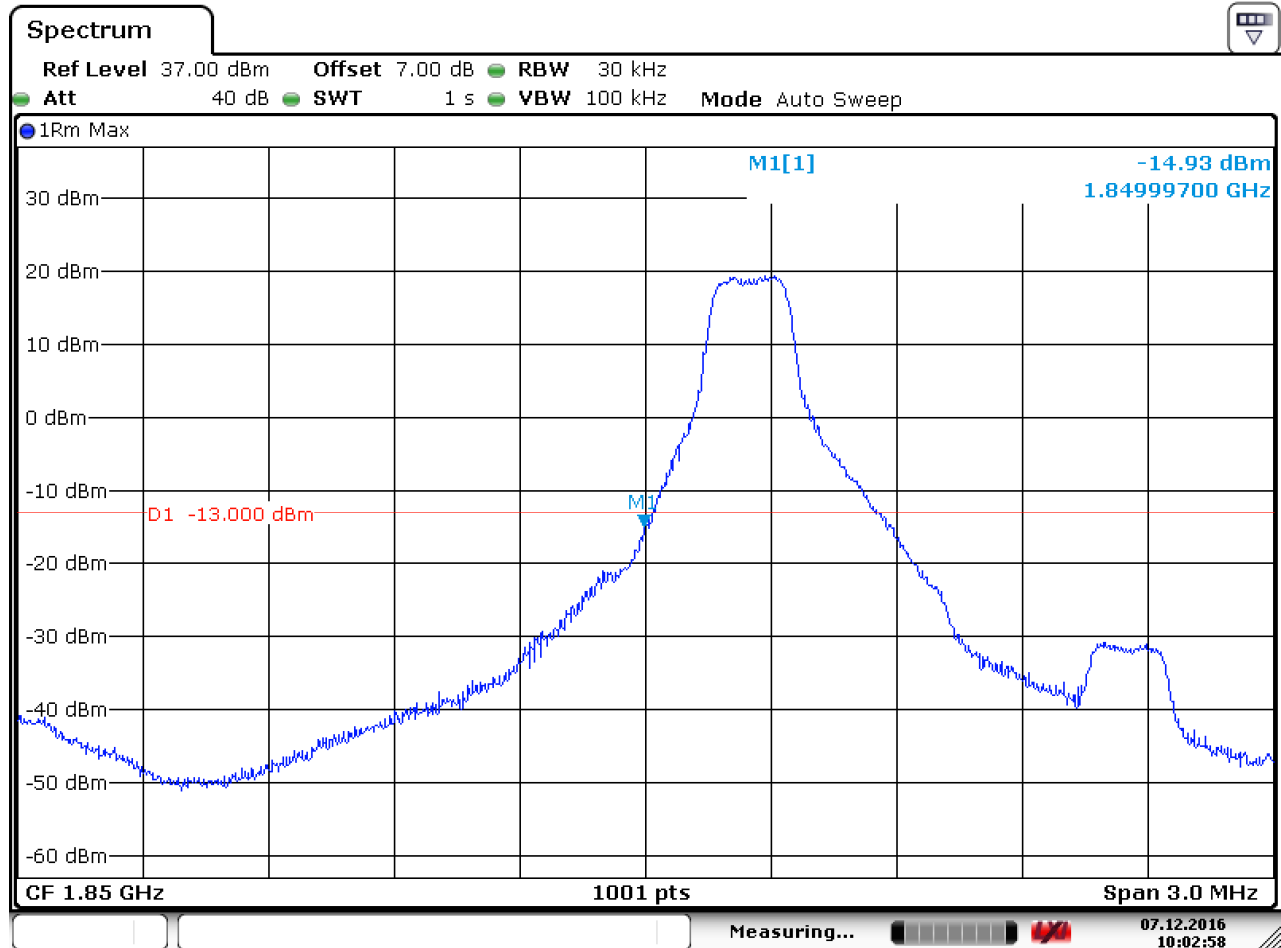
Date: 7.DEC.2016 10:08:10

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5.1.1.2 Test Mode = LTE/TM2 1.4MHz
5.1.1.2.1 Test Channel = LCH

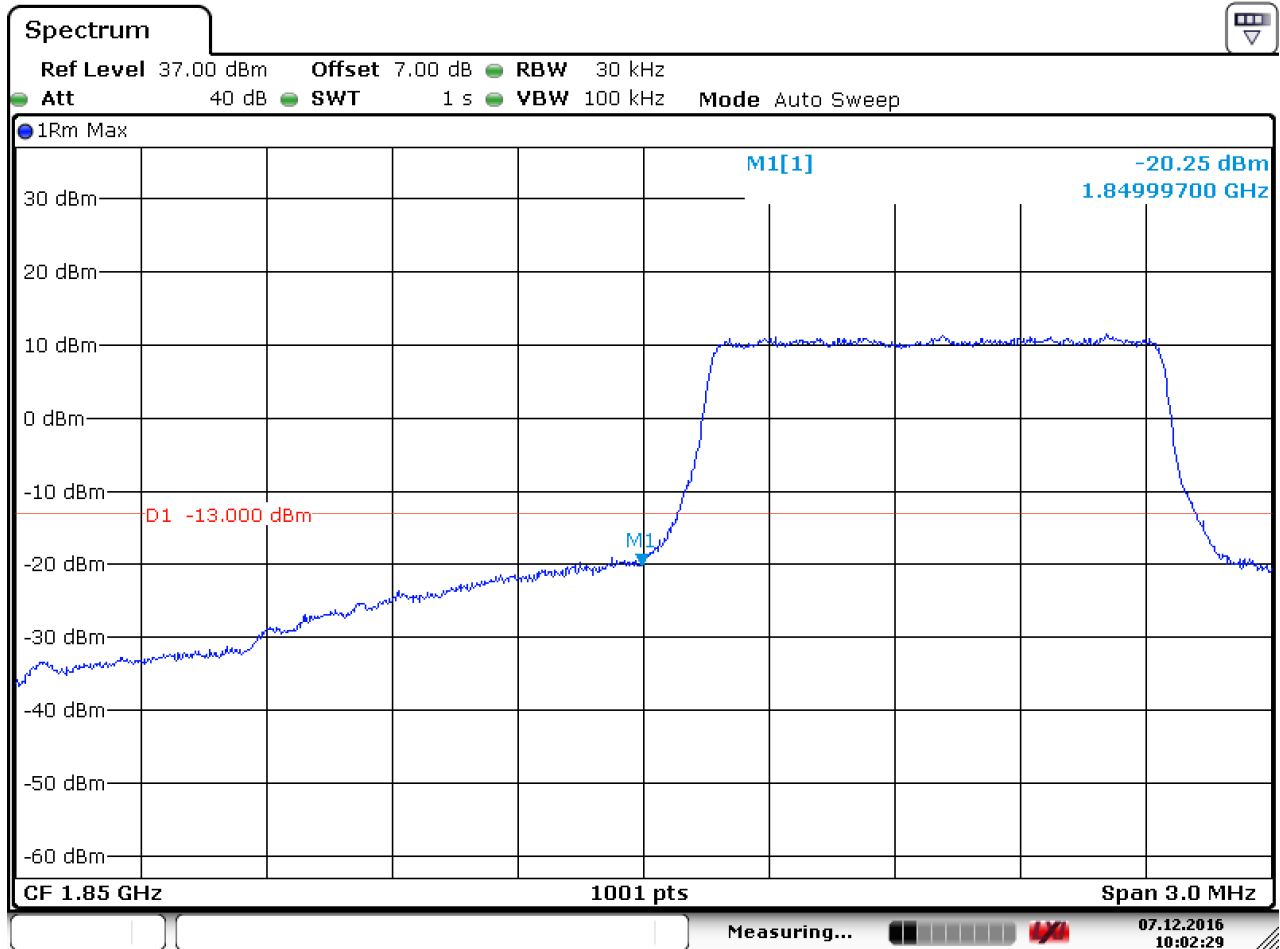
5.1.1.2.1.1 Test RB=1RB



Date: 7.DEC.2016 10:02:58



5.1.1.2.1.2 Test RB=6RB



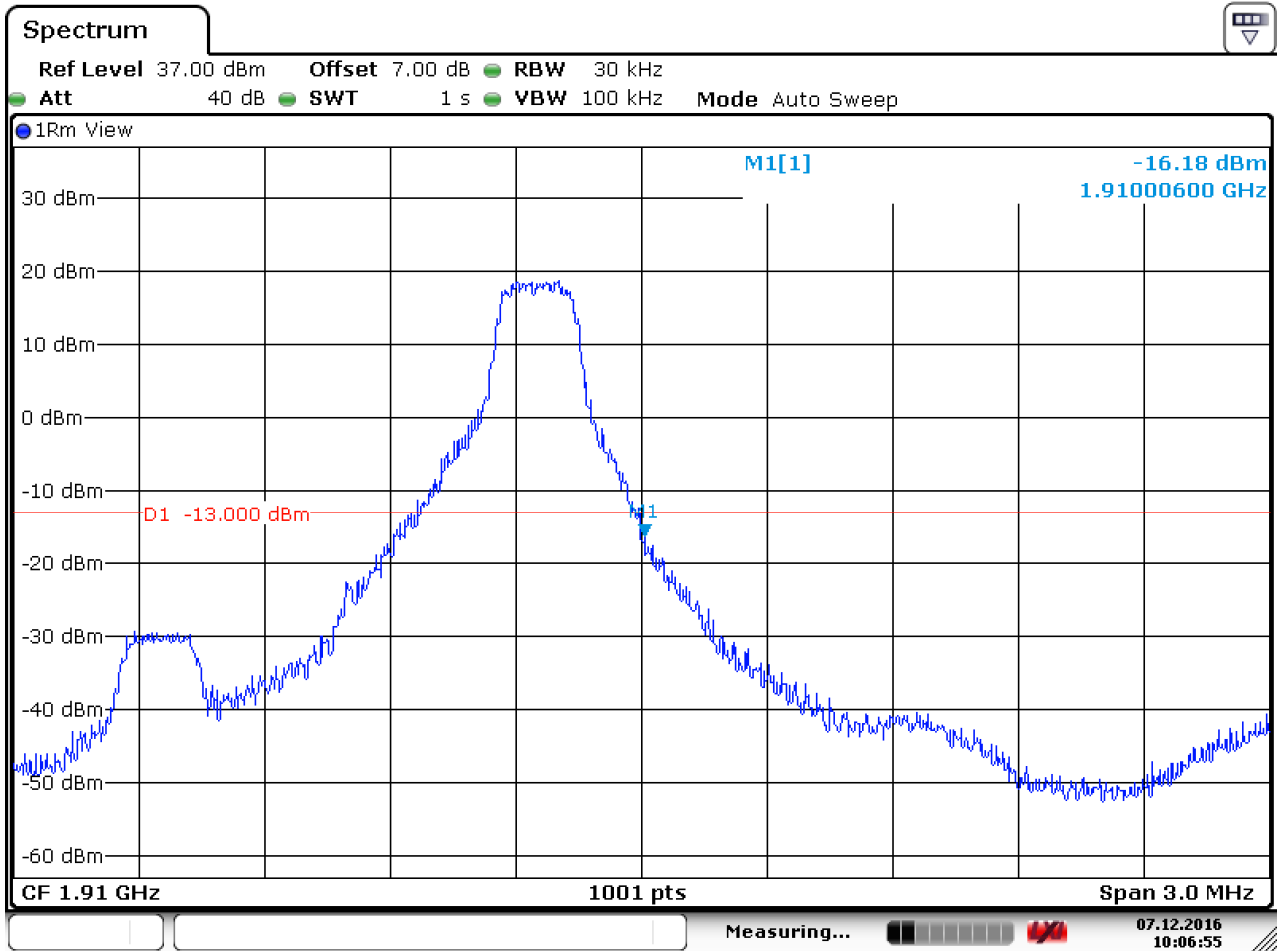
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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

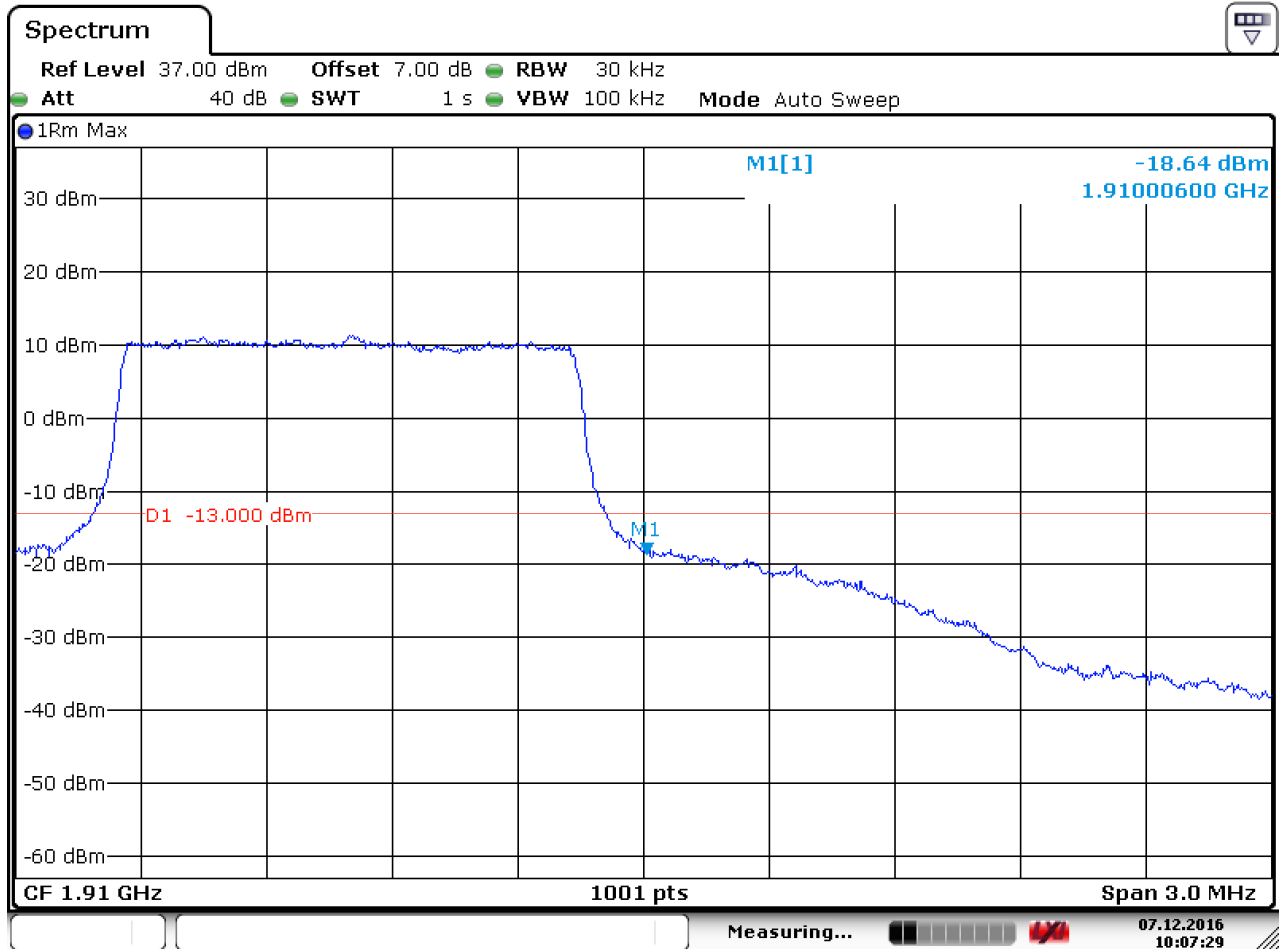


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5.1.1.2.2.2 Test RB=6RB



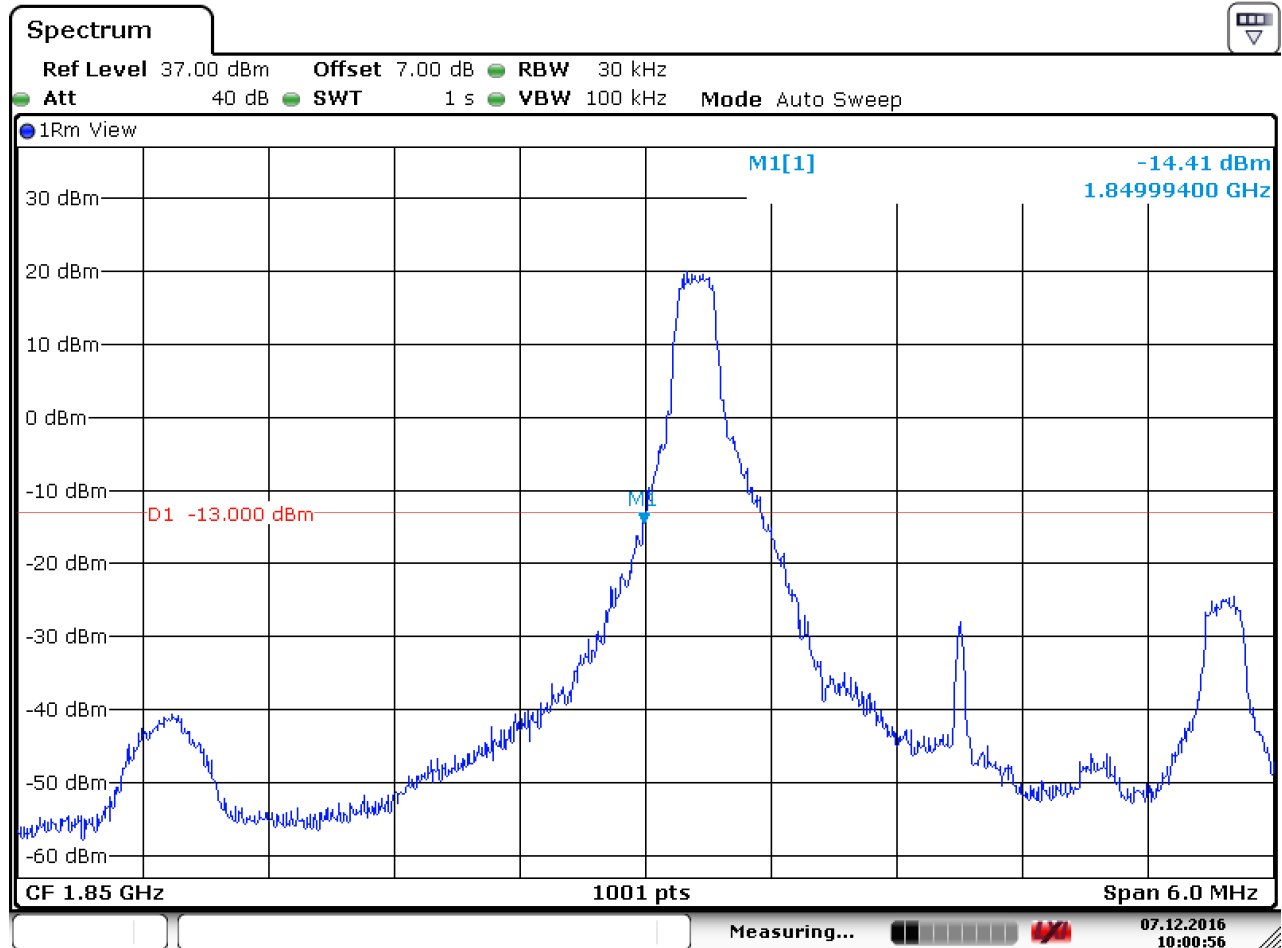
Date: 7.DEC.2016 10:07:30



5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

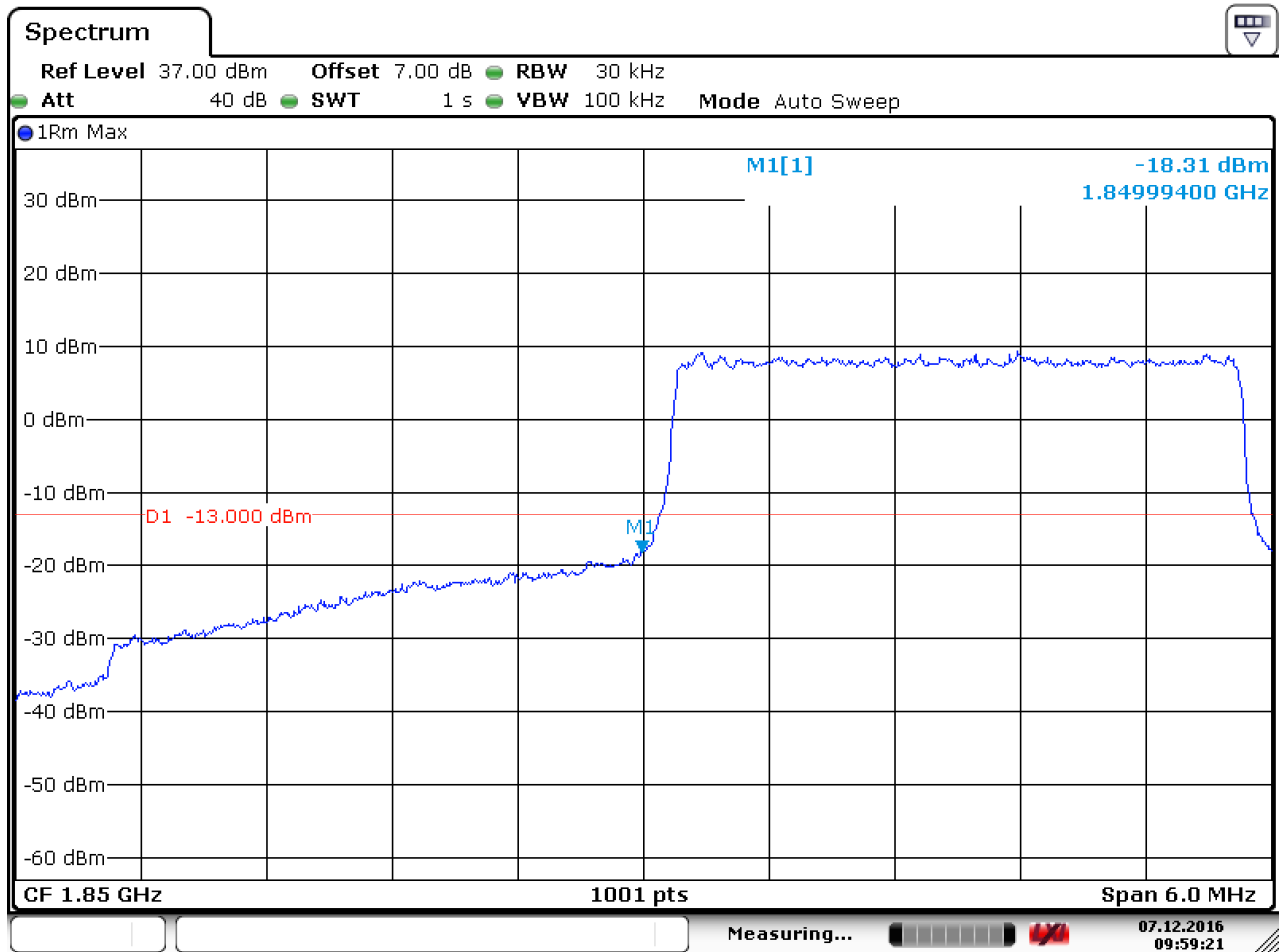


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5.1.1.3.1.2 Test RB=15RB



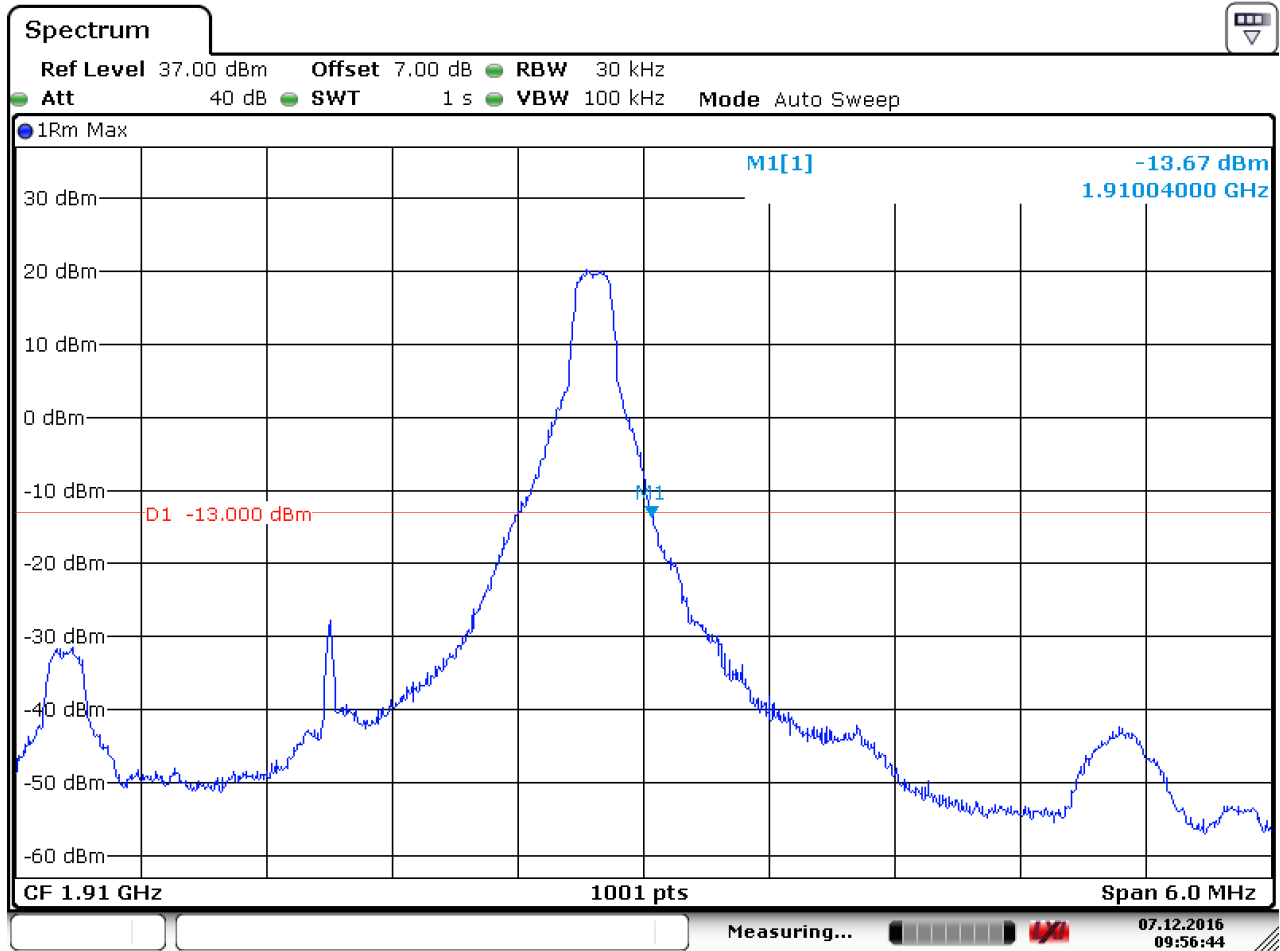
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

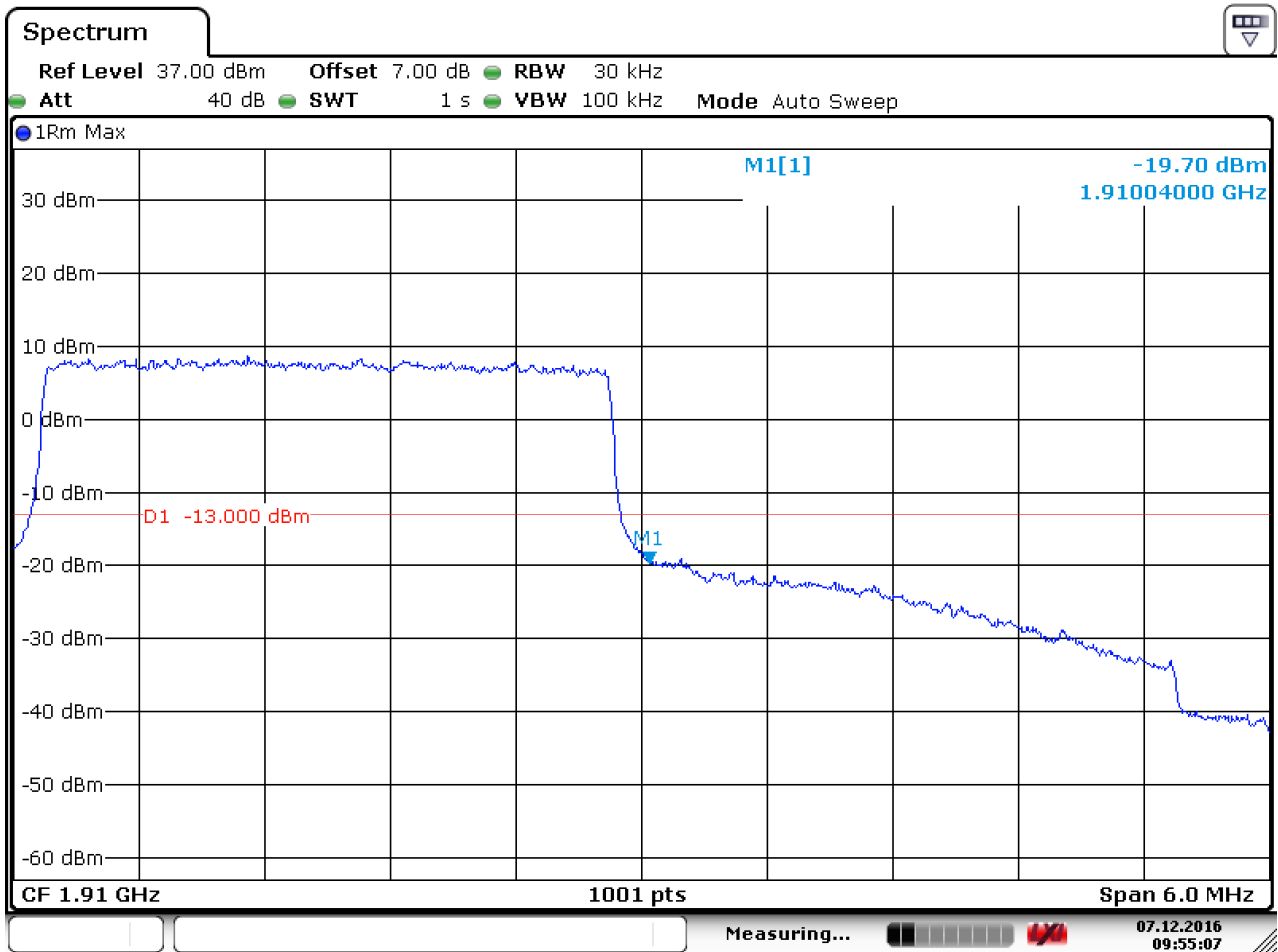


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5.1.1.3.2.2 Test RB=15RB



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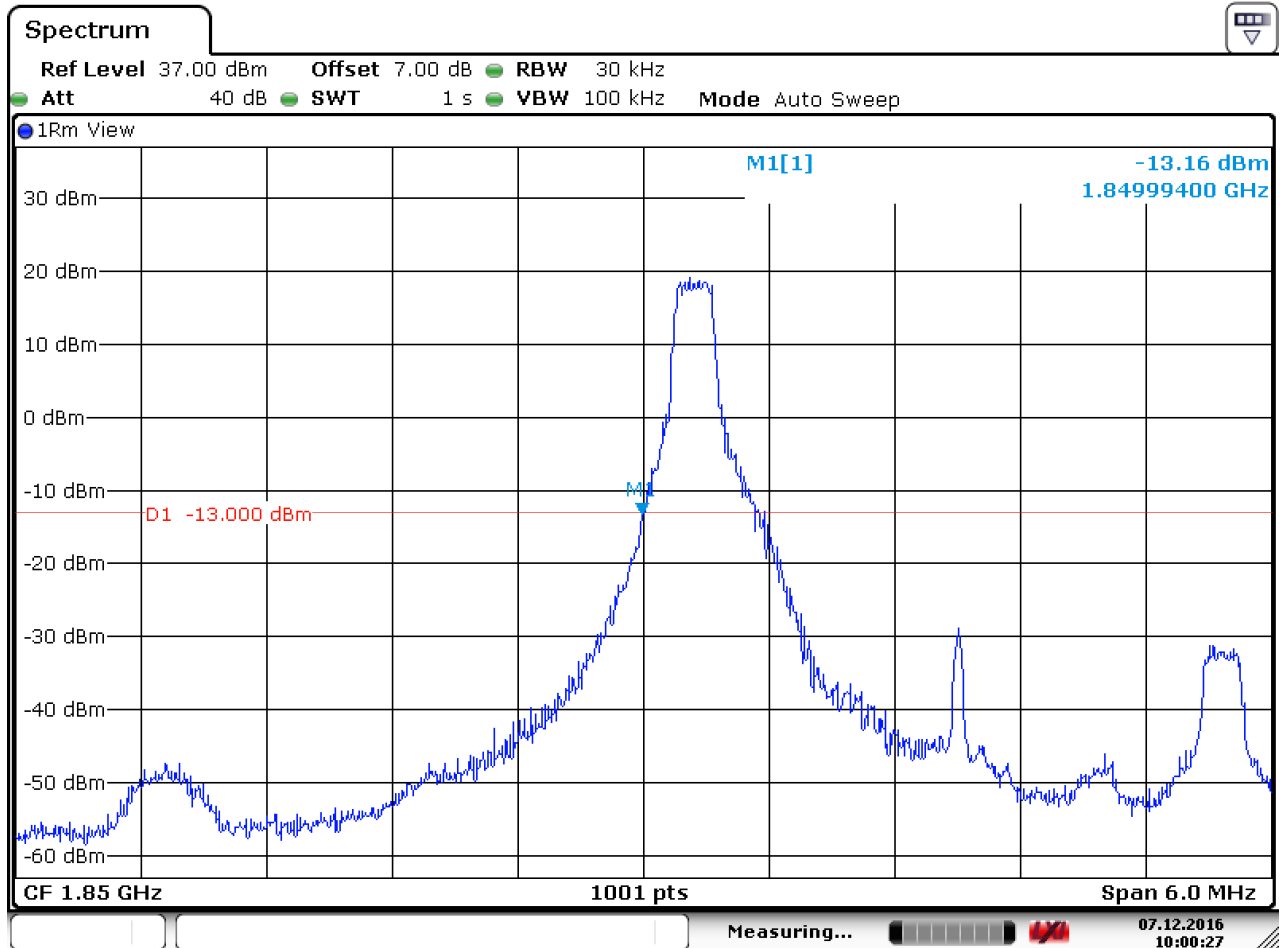
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5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

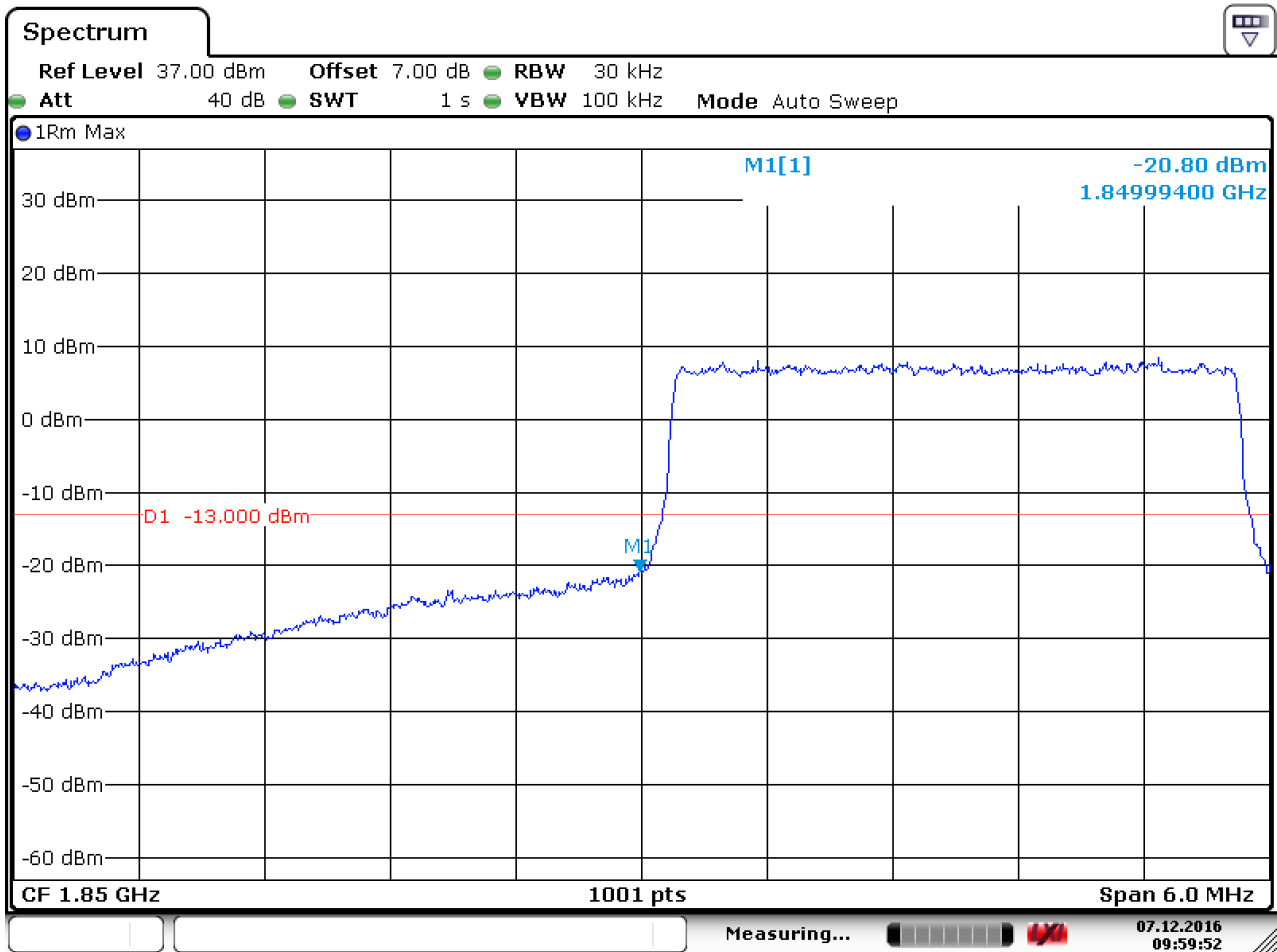


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5.1.1.4.1.2 Test RB=15RB

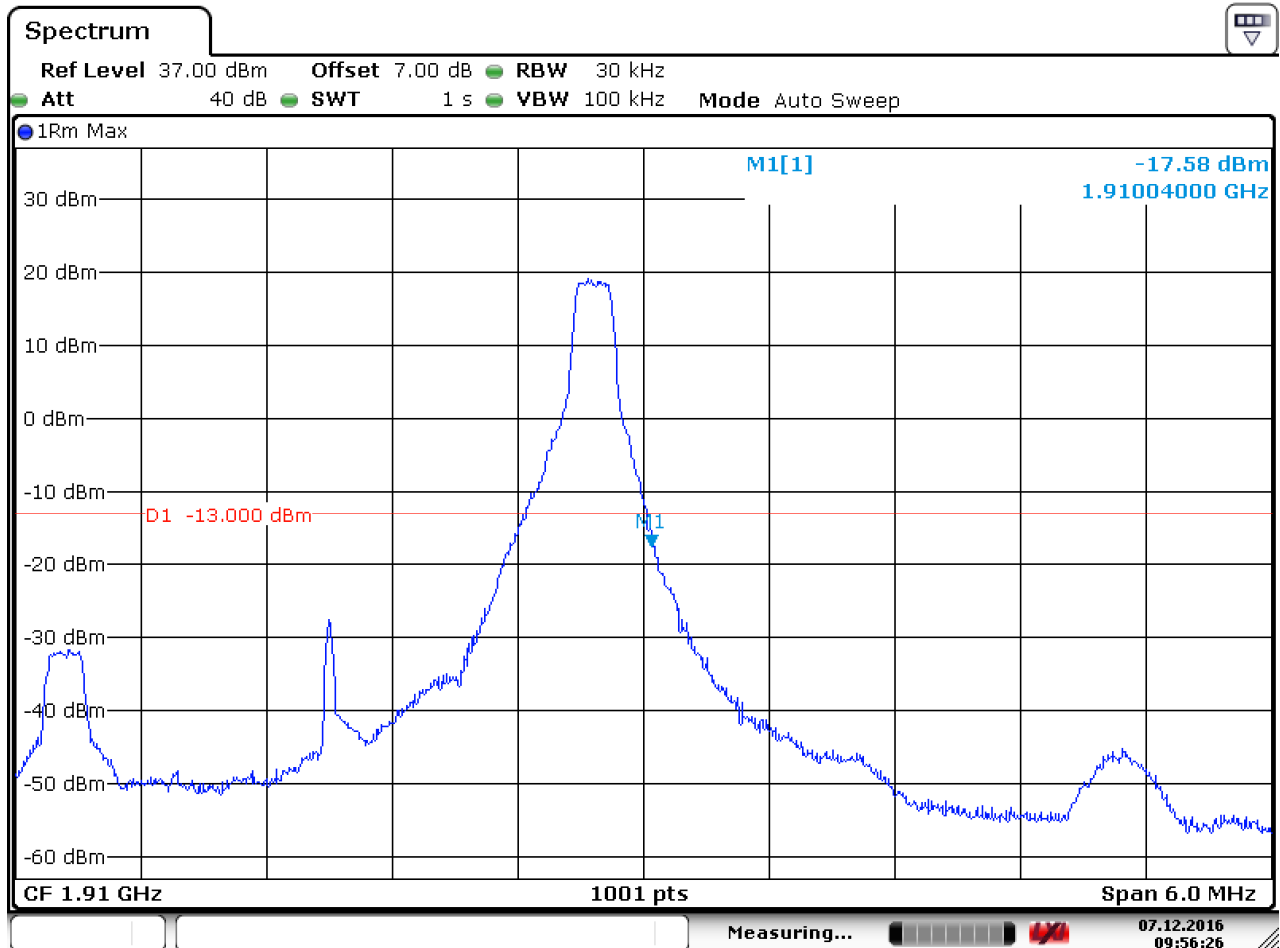


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

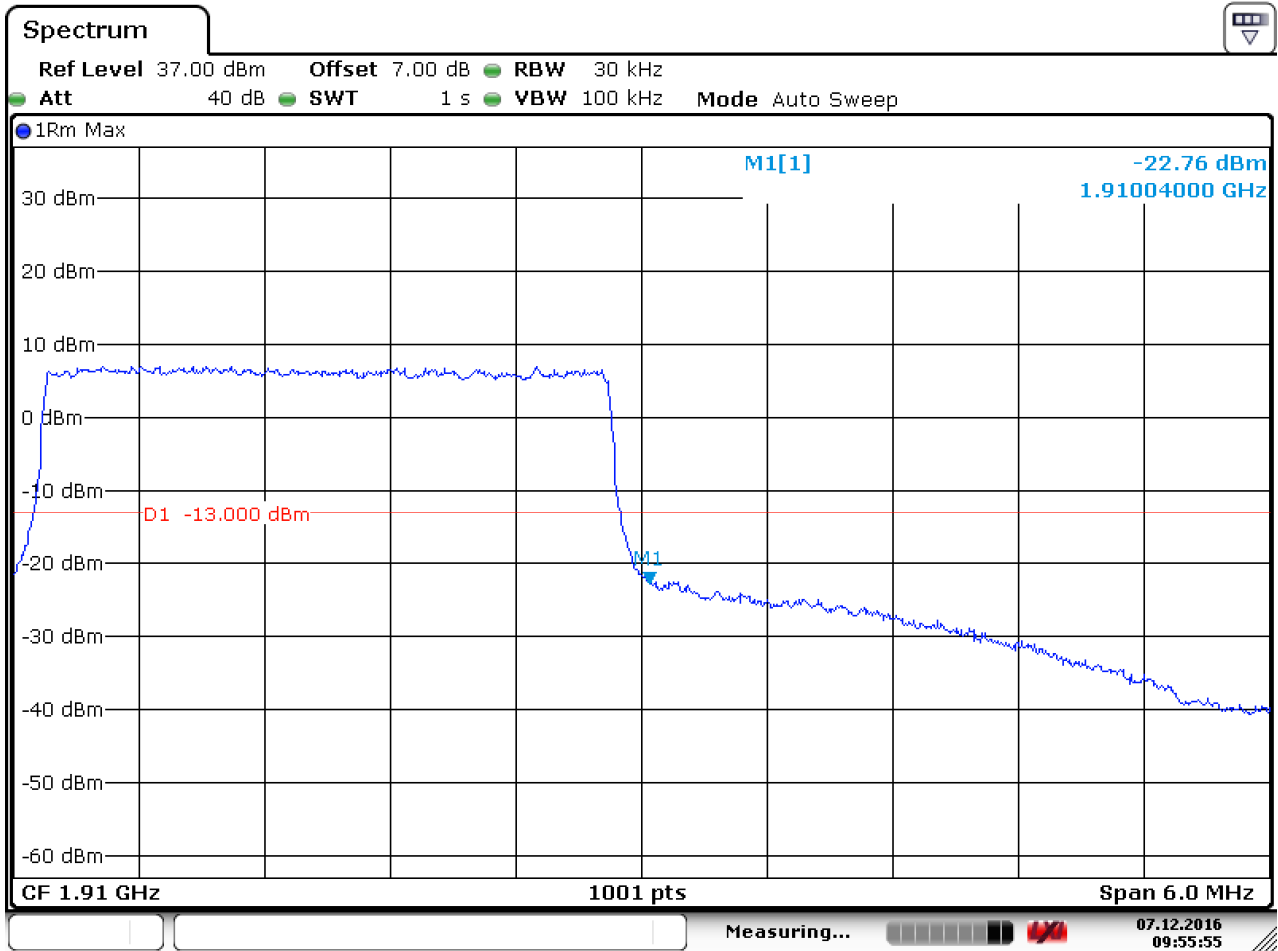


Date: 7.DEC.2016 09:56:26

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5.1.1.4.3 Test RB=15RB



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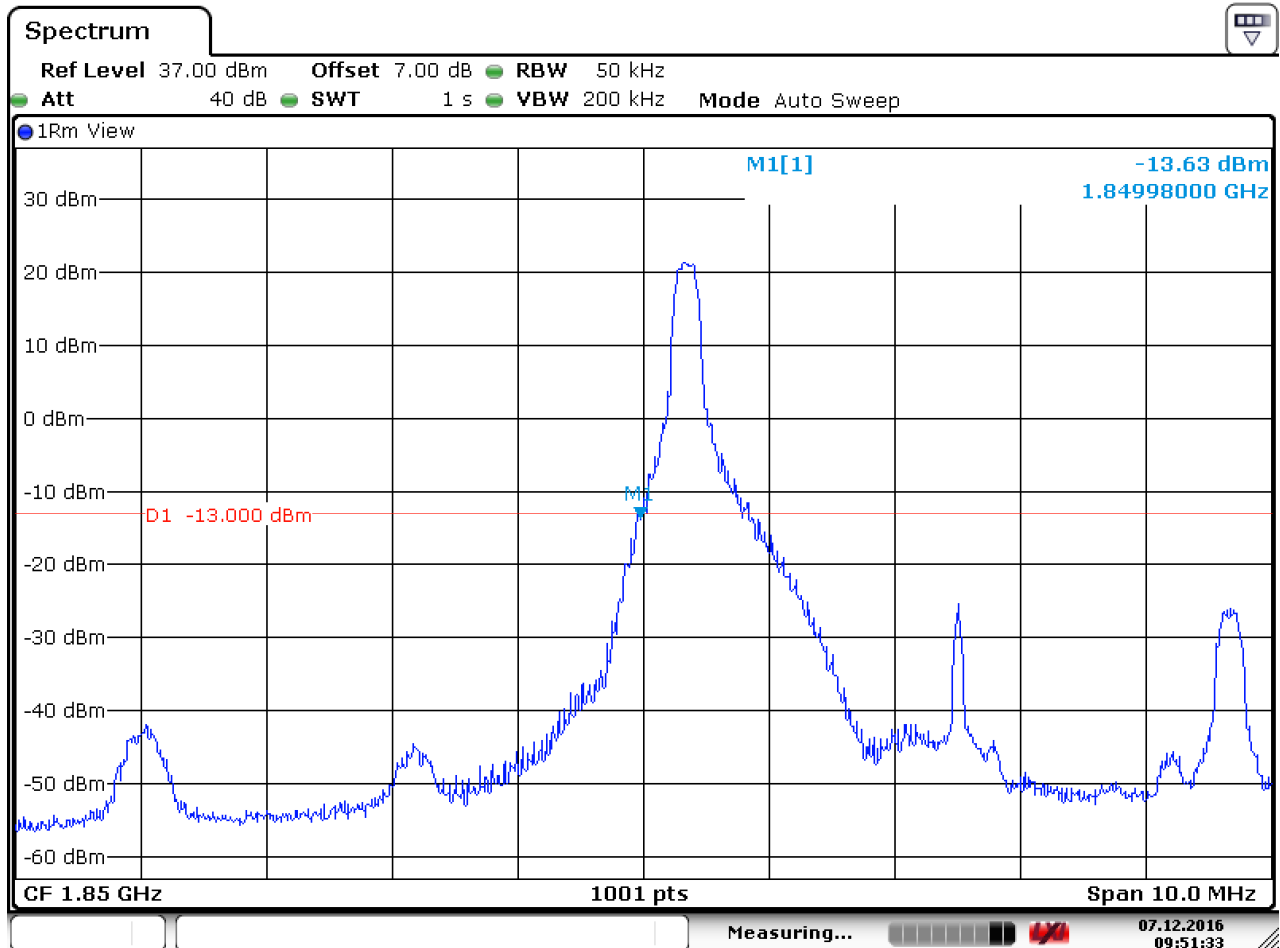
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

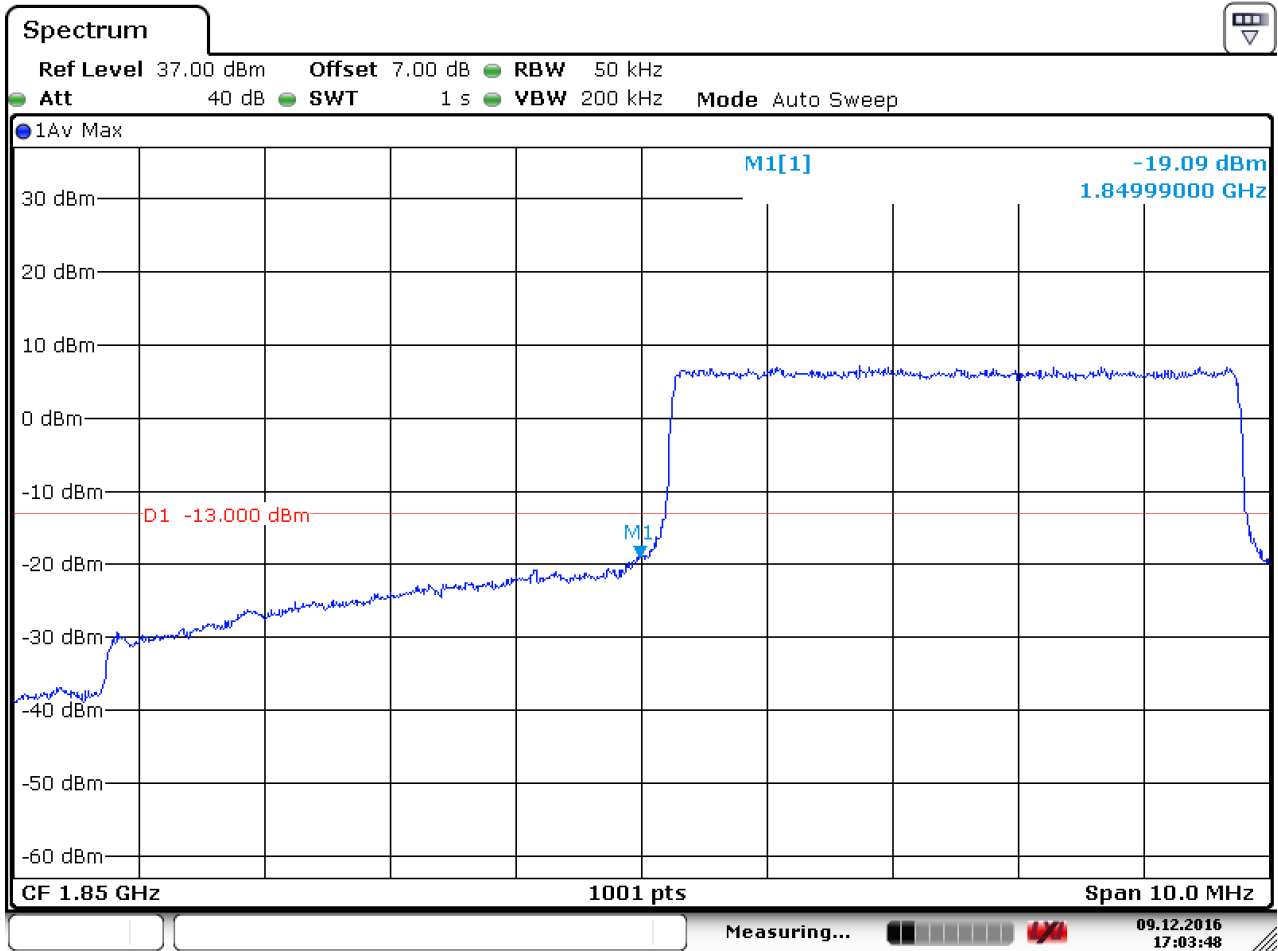


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5.1.1.5.1.2 Test RB=25RB



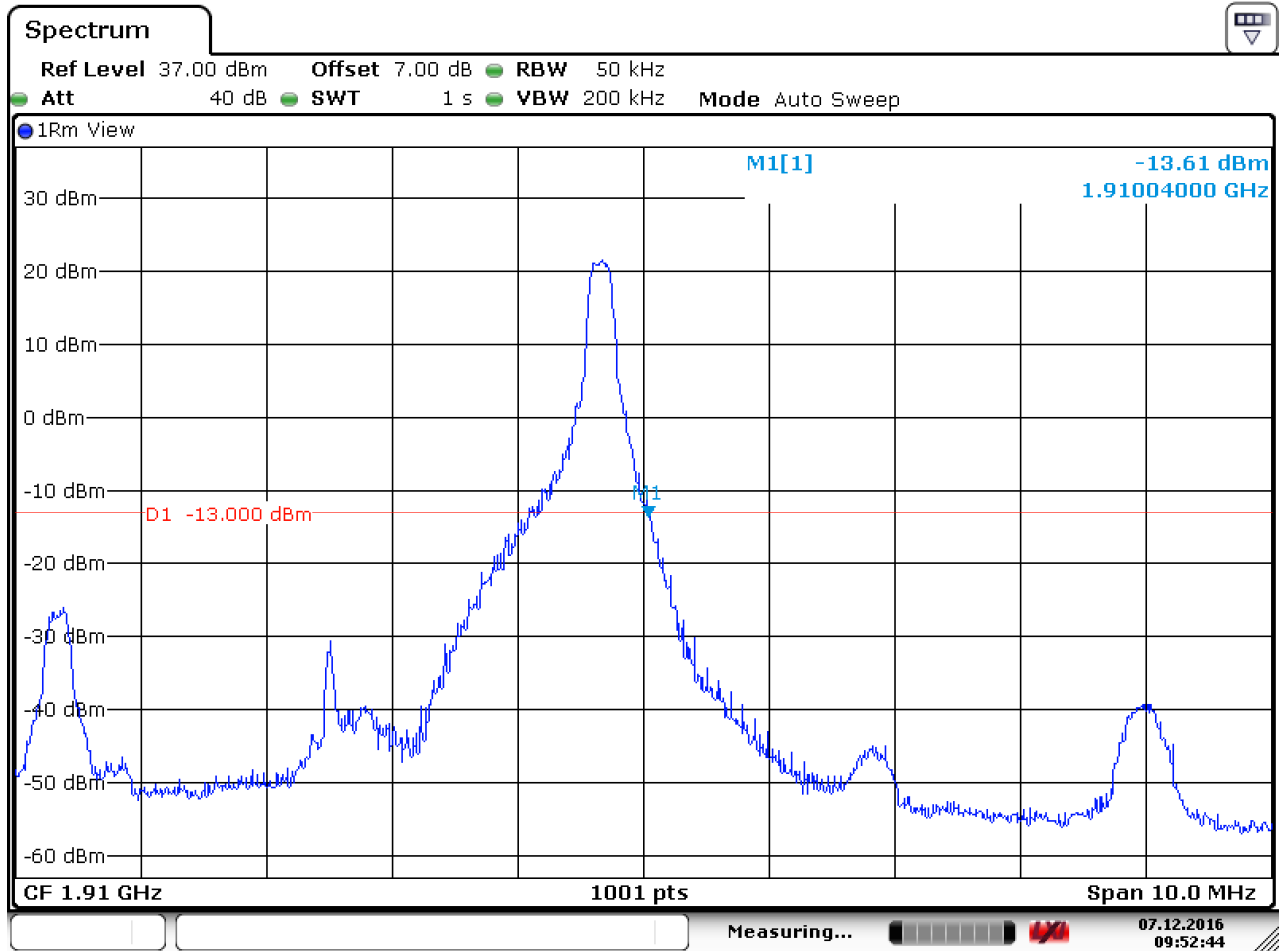
Date: 9. DEC. 2016 17:03:49

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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



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