



Appendix B

Test Data for SZEM1610009167RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 5

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	1.4M	LCH	RB1#0	23.55	23.66	38.45	PASS
				RB1#2	23.63	23.74	38.45	PASS
				RB1#5	23.63	23.74	38.45	PASS
				RB3#0	22.69	22.80	38.45	PASS
				RB3#2	22.78	22.89	38.45	PASS
				RB3#3	22.80	22.91	38.45	PASS
				RB6#0	22.77	22.88	38.45	PASS
			MCH	RB1#0	23.79	23.90	38.45	PASS
				RB1#2	23.88	23.99	38.45	PASS
				RB1#5	23.79	23.90	38.45	PASS
				RB3#0	22.89	23.00	38.45	PASS
				RB3#2	22.90	23.01	38.45	PASS
				RB3#3	22.89	23.00	38.45	PASS
				RB6#0	22.88	22.99	38.45	PASS
			HCH	RB1#0	24.18	24.29	38.45	PASS
				RB1#2	24.12	24.23	38.45	PASS
				RB1#5	24.14	24.25	38.45	PASS
				RB3#0	23.03	23.14	38.45	PASS
				RB3#2	23.03	23.14	38.45	PASS
				RB3#3	23.02	23.13	38.45	PASS
				RB6#0	23.02	23.13	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	1.4M	LCH	RB1#0	22.54	22.65	38.45	PASS
				RB1#2	22.72	22.83	38.45	PASS
				RB1#5	22.77	22.88	38.45	PASS
				RB3#0	21.68	21.79	38.45	PASS
				RB3#2	21.75	21.86	38.45	PASS
				RB3#3	21.78	21.89	38.45	PASS
				RB6#0	21.68	21.79	38.45	PASS
			MCH	RB1#0	22.84	22.95	38.45	PASS
				RB1#2	22.87	22.98	38.45	PASS
				RB1#5	22.90	23.01	38.45	PASS
				RB3#0	21.87	21.98	38.45	PASS
				RB3#2	21.87	21.98	38.45	PASS
				RB3#3	21.90	22.01	38.45	PASS
				RB6#0	21.83	21.94	38.45	PASS
			HCH	RB1#0	23.02	23.13	38.45	PASS
				RB1#2	23.03	23.14	38.45	PASS
				RB1#5	23.00	23.11	38.45	PASS
				RB3#0	22.12	22.23	38.45	PASS
				RB3#2	22.10	22.21	38.45	PASS
				RB3#3	22.10	22.21	38.45	PASS
				RB6#0	22.02	22.13	38.45	PASS

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BAND5	LTE/TM1	3M	LCH	RB1#0	23.46	23.57	38.45	PASS
				RB1#7	23.62	23.73	38.45	PASS
				RB1#14	23.67	23.78	38.45	PASS
				RB8#0	22.67	22.78	38.45	PASS
				RB8#4	22.75	22.86	38.45	PASS
				RB8#7	22.79	22.90	38.45	PASS
				RB15#0	22.74	22.85	38.45	PASS
			MCH	RB1#0	23.73	23.84	38.45	PASS
				RB1#7	23.75	23.86	38.45	PASS
				RB1#14	23.80	23.91	38.45	PASS
				RB8#0	22.88	22.99	38.45	PASS
				RB8#4	22.87	22.98	38.45	PASS
				RB8#7	22.88	22.99	38.45	PASS
				RB15#0	22.87	22.98	38.45	PASS
			HCH	RB1#0	24.15	24.26	38.45	PASS
				RB1#7	24.14	24.25	38.45	PASS
				RB1#14	24.08	24.19	38.45	PASS
				RB8#0	23.19	23.30	38.45	PASS
				RB8#4	23.19	23.30	38.45	PASS
				RB8#7	23.18	23.29	38.45	PASS
				RB15#0	23.19	23.30	38.45	PASS

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BAND5	LTE/TM2	3M	LCH	RB1#0	22.52	22.63	38.45	PASS
				RB1#7	22.70	22.81	38.45	PASS
				RB1#14	22.74	22.85	38.45	PASS
				RB8#0	21.65	21.76	38.45	PASS
				RB8#4	21.73	21.84	38.45	PASS
				RB8#7	21.77	21.88	38.45	PASS
				RB15#0	21.65	21.76	38.45	PASS
			MCH	RB1#0	22.83	22.94	38.45	PASS
				RB1#7	22.84	22.95	38.45	PASS
				RB1#14	22.89	23.00	38.45	PASS
				RB8#0	21.85	21.96	38.45	PASS
				RB8#4	21.85	21.96	38.45	PASS
				RB8#7	21.87	21.98	38.45	PASS
				RB15#0	21.80	21.91	38.45	PASS
			HCH	RB1#0	23.19	23.30	38.45	PASS
				RB1#7	23.18	23.29	38.45	PASS
				RB1#14	23.16	23.27	38.45	PASS
				RB8#0	22.27	22.38	38.45	PASS
				RB8#4	22.27	22.38	38.45	PASS
				RB8#7	22.25	22.36	38.45	PASS
				RB15#0	22.18	22.29	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	5M	LCH	RB1#0	23.55	23.66	38.45	PASS
				RB1#13	23.75	23.86	38.45	PASS
				RB1#24	23.76	23.87	38.45	PASS
				RB12#0	22.76	22.87	38.45	PASS
				RB12#6	22.83	22.94	38.45	PASS
				RB12#13	22.90	23.01	38.45	PASS
				RB25#0	22.78	22.89	38.45	PASS
			MCH	RB1#0	23.81	23.92	38.45	PASS
				RB1#13	23.80	23.91	38.45	PASS
				RB1#24	23.92	24.03	38.45	PASS
				RB12#0	22.92	23.03	38.45	PASS
				RB12#6	22.91	23.02	38.45	PASS
				RB12#13	22.99	23.10	38.45	PASS
				RB25#0	22.93	23.04	38.45	PASS
			HCH	RB1#0	24.12	24.23	38.45	PASS
				RB1#13	24.18	24.29	38.45	PASS
				RB1#24	24.16	24.27	38.45	PASS
				RB12#0	23.47	23.58	38.45	PASS
				RB12#6	23.42	23.53	38.45	PASS
				RB12#13	23.39	23.50	38.45	PASS
				RB25#0	23.39	23.50	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	5M	LCH	RB1#0	22.54	22.65	38.45	PASS
				RB1#13	22.74	22.85	38.45	PASS
				RB1#24	22.80	22.91	38.45	PASS
				RB12#0	21.79	21.90	38.45	PASS
				RB12#6	21.87	21.98	38.45	PASS
				RB12#13	21.93	22.04	38.45	PASS
				RB25#0	21.76	21.87	38.45	PASS
			MCH	RB1#0	22.84	22.95	38.45	PASS
				RB1#13	22.84	22.95	38.45	PASS
				RB1#24	22.96	23.07	38.45	PASS
				RB12#0	21.97	22.08	38.45	PASS
				RB12#6	21.96	22.07	38.45	PASS
				RB12#13	22.03	22.14	38.45	PASS
				RB25#0	21.91	22.02	38.45	PASS
			HCH	RB1#0	23.15	23.26	38.45	PASS
				RB1#13	23.16	23.27	38.45	PASS
				RB1#24	23.13	23.24	38.45	PASS
				RB12#0	22.18	22.29	38.45	PASS
				RB12#6	22.13	22.24	38.45	PASS
				RB12#13	22.11	22.22	38.45	PASS
				RB25#0	22.16	22.27	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	10M	LCH	RB1#0	23.44	23.55	38.45	PASS
				RB1#25	23.69	23.80	38.45	PASS
				RB1#49	23.65	23.76	38.45	PASS
				RB25#0	22.59	22.70	38.45	PASS
				RB25#13	22.70	22.81	38.45	PASS
				RB25#25	22.74	22.85	38.45	PASS
				RB50#0	22.68	22.79	38.45	PASS
			MCH	RB1#0	23.67	23.78	38.45	PASS
				RB1#25	23.57	23.68	38.45	PASS
				RB1#49	23.93	24.04	38.45	PASS
				RB25#0	22.62	22.73	38.45	PASS
				RB25#13	22.63	22.74	38.45	PASS
				RB25#25	22.77	22.88	38.45	PASS
				RB50#0	22.73	22.84	38.45	PASS
			HCH	RB1#0	23.85	23.96	38.45	PASS
				RB1#25	24.08	24.19	38.45	PASS
				RB1#49	24.01	24.12	38.45	PASS
				RB25#0	23.05	23.16	38.45	PASS
				RB25#13	23.13	23.24	38.45	PASS
				RB25#25	23.14	23.25	38.45	PASS
				RB50#0	23.01	23.12	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	10M	LCH	RB1#0	22.75	22.86	38.45	PASS
				RB1#25	22.97	23.08	38.45	PASS
				RB1#49	22.96	23.07	38.45	PASS
				RB25#0	21.59	21.70	38.45	PASS
				RB25#13	21.72	21.83	38.45	PASS
				RB25#25	21.76	21.87	38.45	PASS
				RB50#0	21.69	21.80	38.45	PASS
			MCH	RB1#0	23.03	23.14	38.45	PASS
				RB1#25	22.93	23.04	38.45	PASS
				RB1#49	23.23	23.34	38.45	PASS
				RB25#0	21.63	21.74	38.45	PASS
				RB25#13	21.66	21.77	38.45	PASS
				RB25#25	21.77	21.88	38.45	PASS
				RB50#0	21.73	21.84	38.45	PASS
			HCH	RB1#0	23.17	23.28	38.45	PASS
				RB1#25	23.35	23.46	38.45	PASS
				RB1#49	23.29	23.40	38.45	PASS
				RB25#0	22.02	22.13	38.45	PASS
				RB25#13	22.12	22.23	38.45	PASS
				RB25#25	22.13	22.24	38.45	PASS
				RB50#0	22.11	22.22	38.45	PASS

Note:

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

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

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 5	TM1/10M	LCH	5.62	13	PASS
		MCH	5.88	13	PASS
		HCH	5.19	13	PASS
	TM2/10M	LCH	6.38	13	PASS
		MCH	6.70	13	PASS
		HCH	6.00	13	PASS



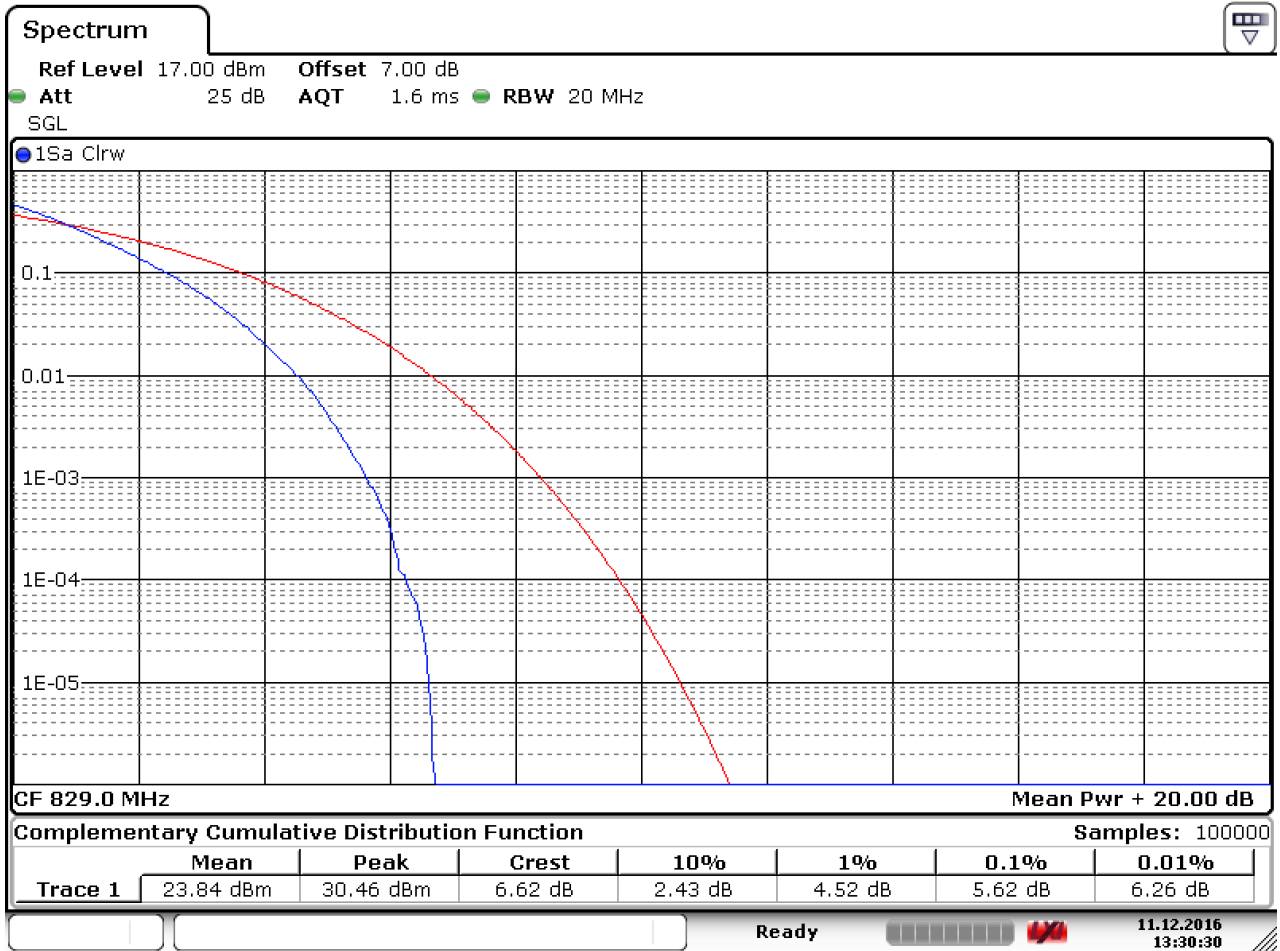
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band5

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

2.1.1.1.1 Test Channel = LCH

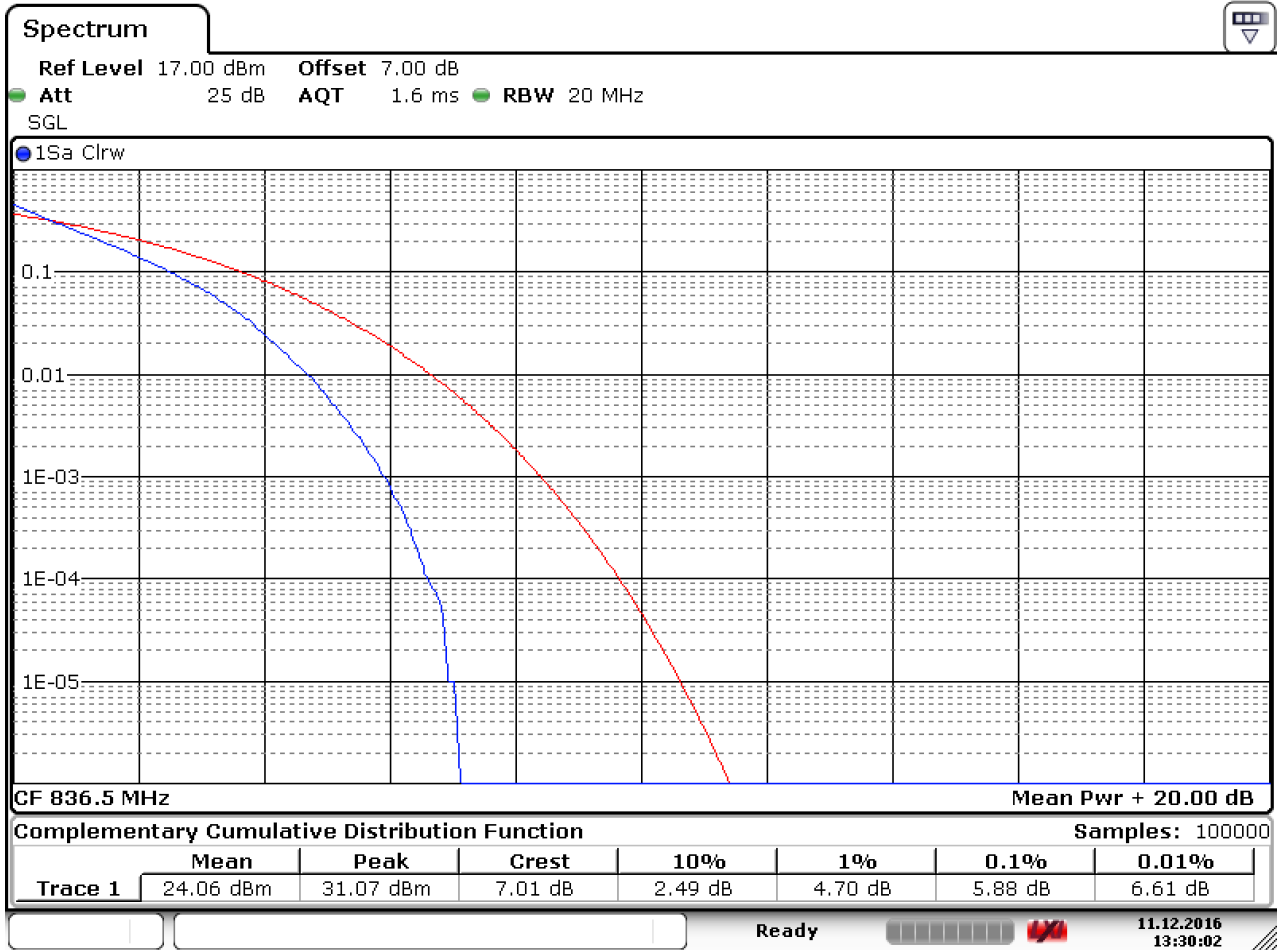


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2.1.1.1.2 Test Channel = MCH

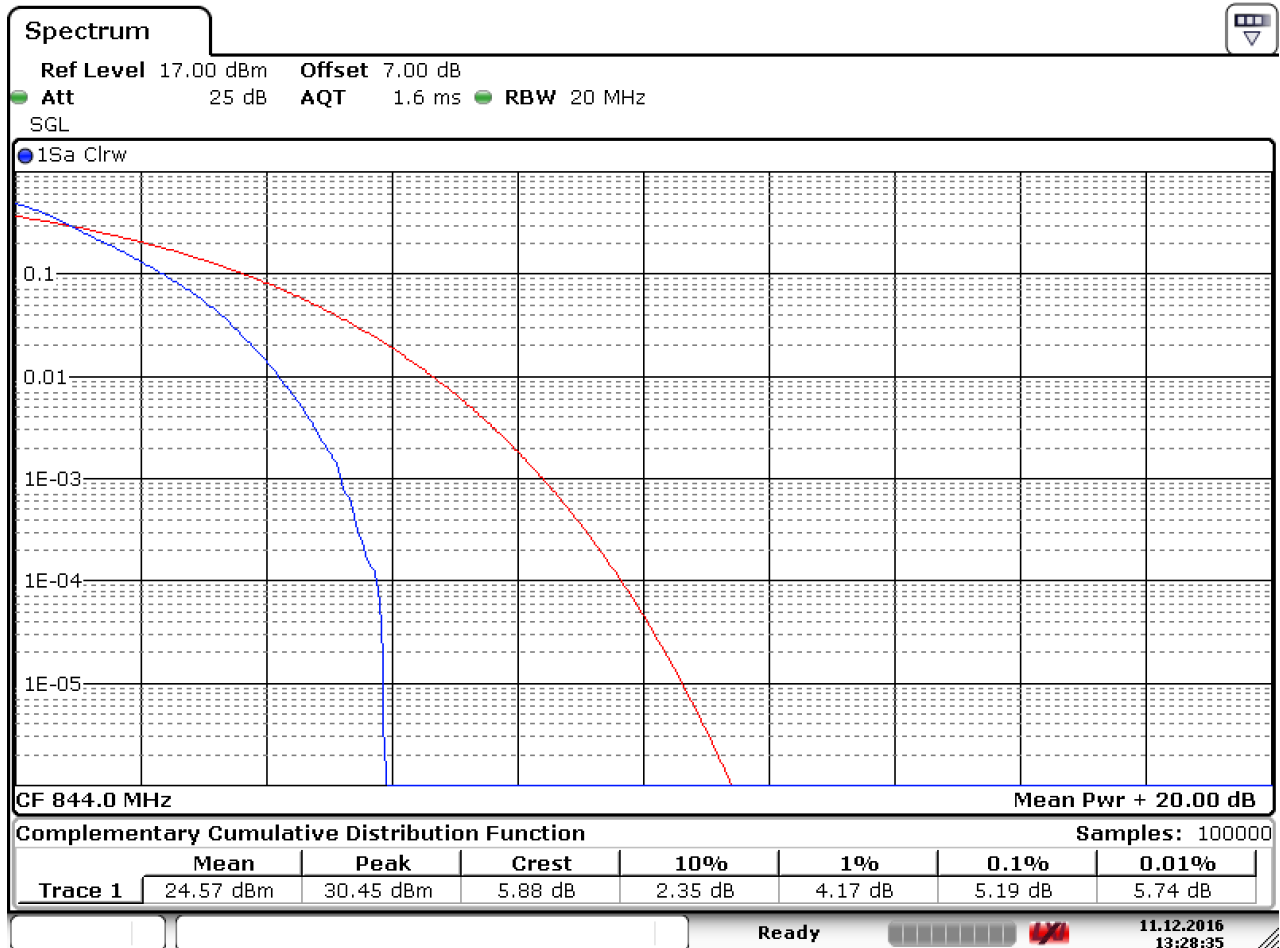


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2.1.1.1.3 Test Channel = HCH



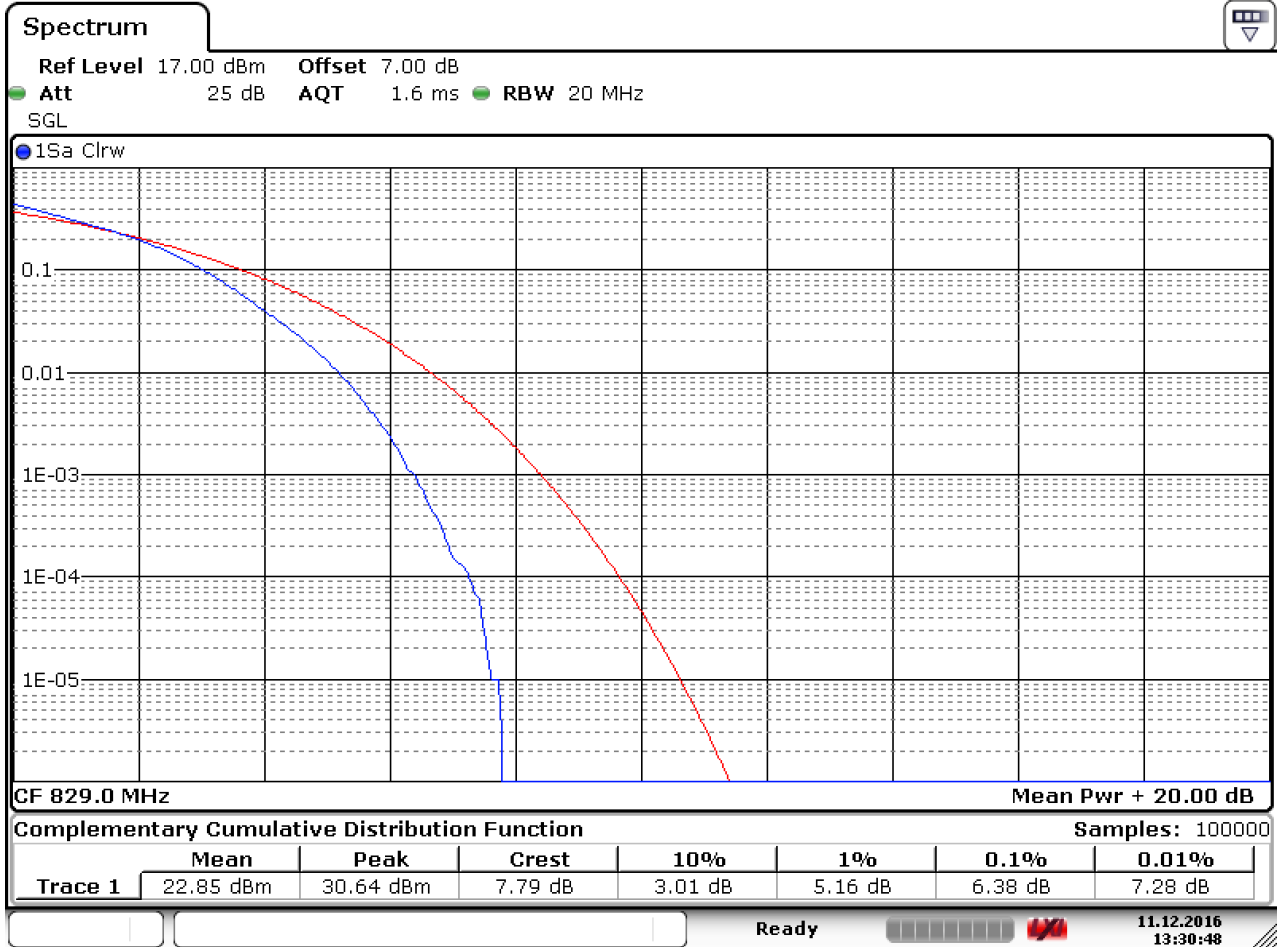
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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH

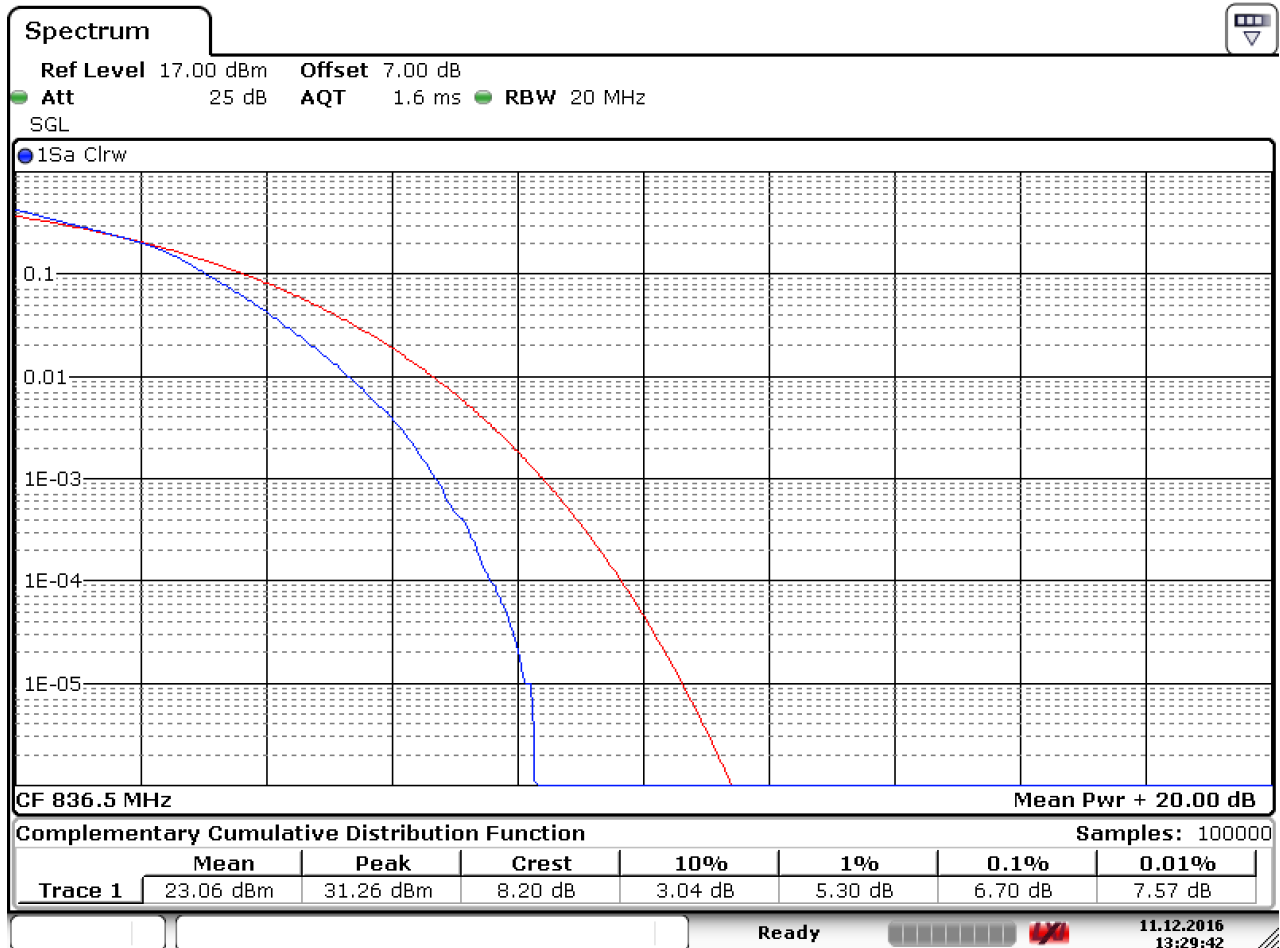


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2.1.1.2.2 Test Channel = MCH

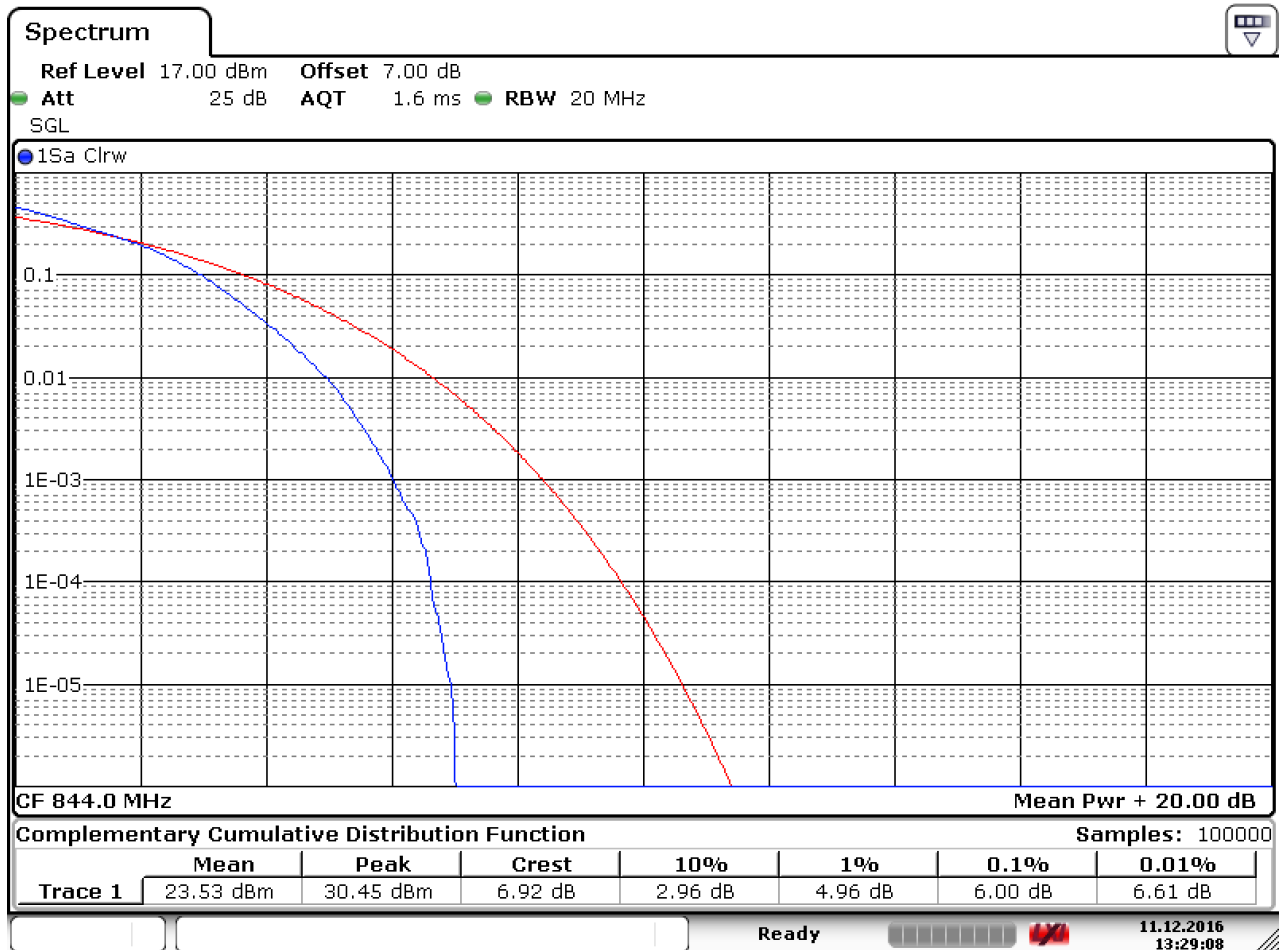


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2.1.1.2.3 Test Channel = HCH



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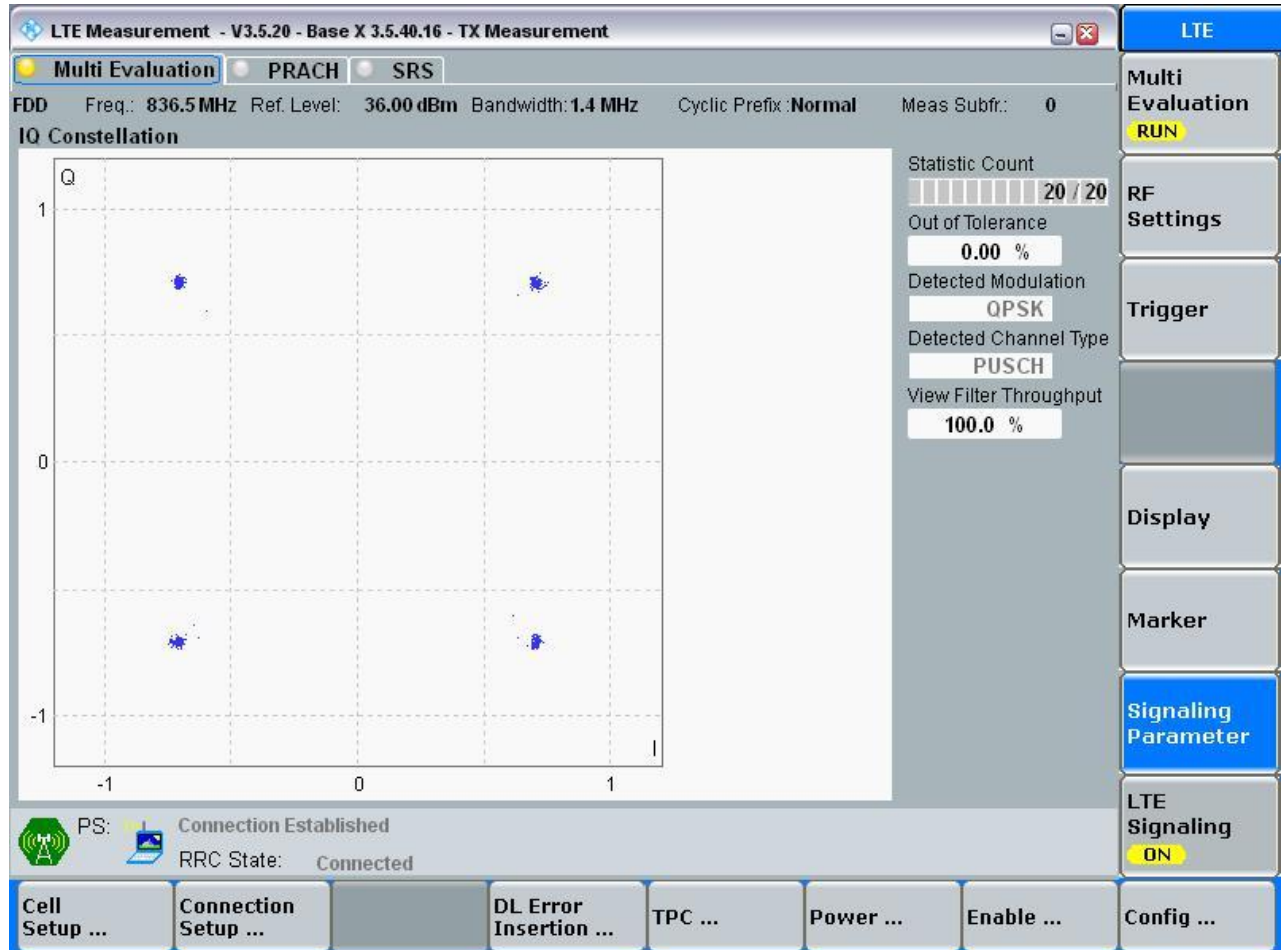
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band5

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

The screenshot displays the 'LTE Measurement - V3.5.20 - Base X 3.5.40.16 - TX Measurement' window. The 'Multi Evaluation' tab is active, showing a 'RUN' status. The main display area features an 'IQ Constellation' plot with a grid from -1 to 1 on both axes, showing four distinct clusters of blue data points. To the right of the plot, a 'Statistic Count' bar shows 20/20, with 'Out of Tolerance' at 0.00%. The 'Detected Modulation' is QPSK and the 'Detected Channel Type' is PUSCH. The 'View Filter Throughput' is 100.0%. A vertical toolbar on the right contains buttons for 'LTE', 'Multi Evaluation', 'RF Settings', 'Trigger', 'Display', 'Marker', 'Signaling Parameter', and 'LTE Signaling' (which is ON). The bottom status bar shows 'PS: Connection Established' and 'RRC State: Connected'. A bottom navigation bar includes buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH

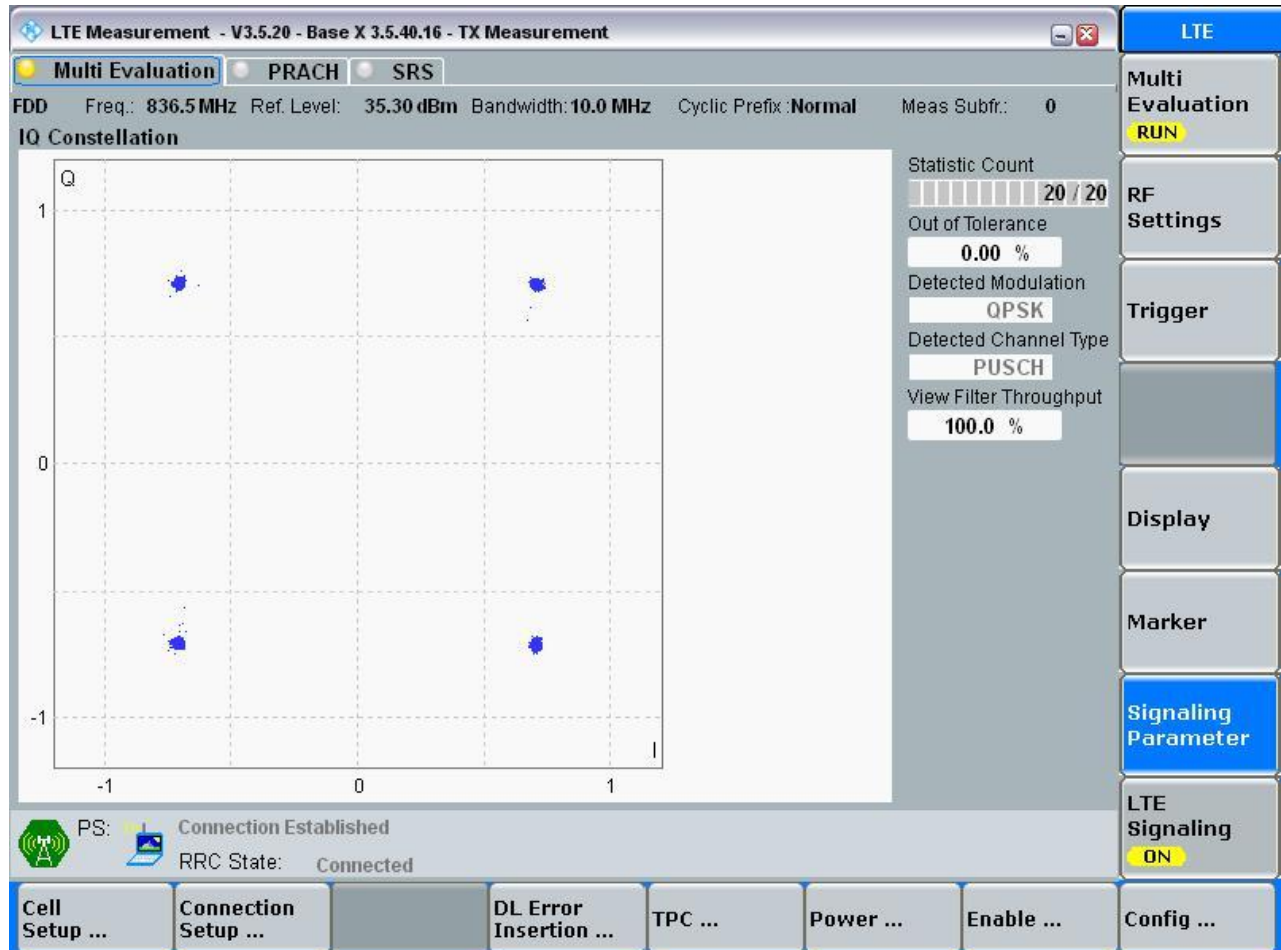
The screenshot displays the 'LTE Measurement - V3.5.20 - Base X 3.5.40.16 - TX Measurement' software interface. The main window is titled 'Multi Evaluation' and shows the following parameters: FDD, Freq.: 836.5 MHz, Ref. Level: 36.10 dBm, Bandwidth: 5.0 MHz, and Cyclic Prefix: Normal. The 'IQ Constellation' plot shows a QPSK modulation scheme with four distinct clusters of points in a square arrangement on a grid from -1 to 1 on both axes. The right-hand side of the interface contains a vertical toolbar with buttons for 'LTE', 'Multi Evaluation RUN', 'RF Settings', 'Trigger', 'Display', 'Marker', 'Signaling Parameter', and 'LTE Signaling ON'. Below the plot, the status bar indicates 'PS: Connection Established' and 'RRC State: Connected'. At the bottom, there is a row of configuration buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH



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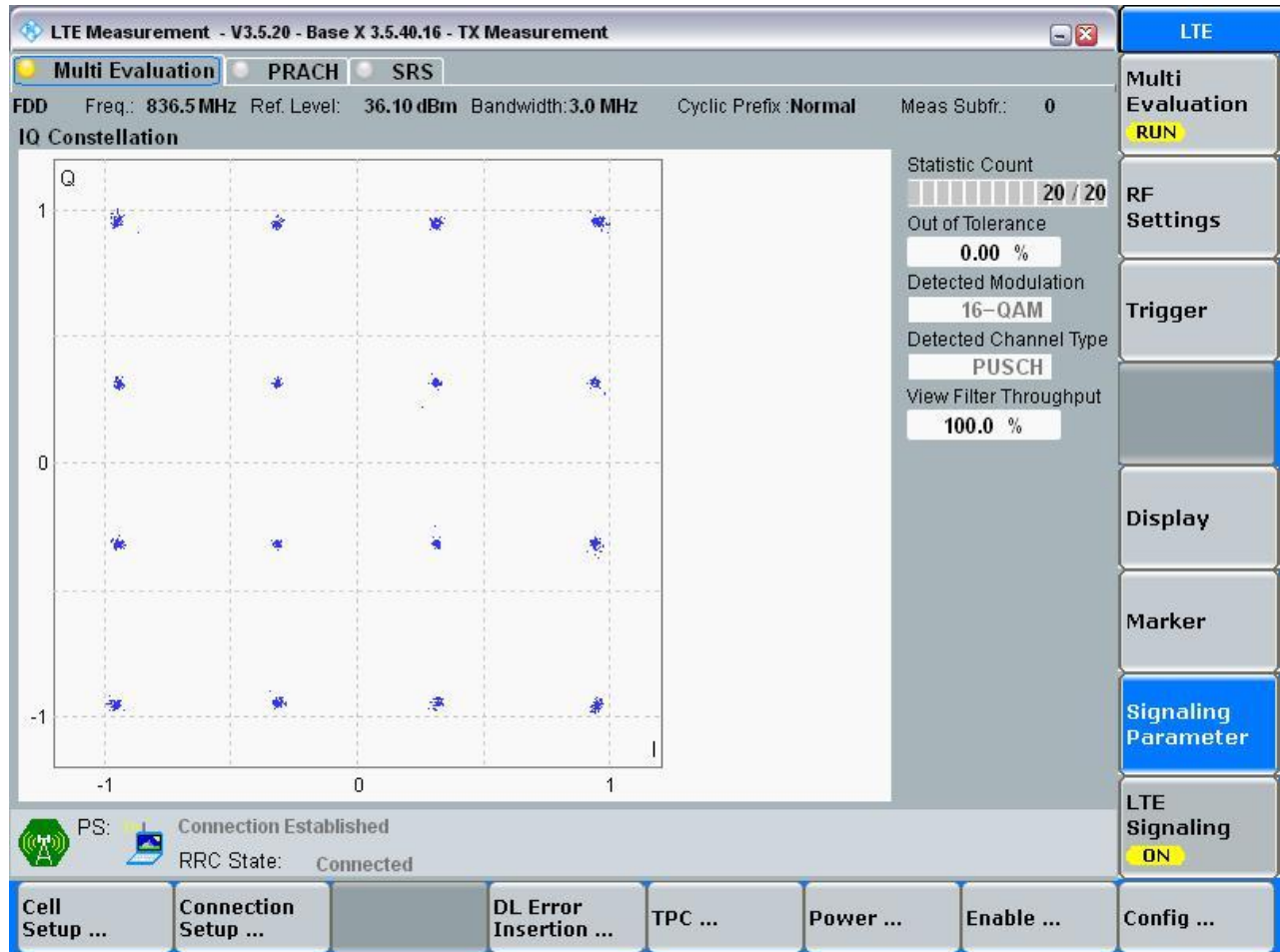
3.1.1.5 Test Mode = LTE /TM2 1.4MHz
3.1.1.5.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement - V3.5.20 - Base X 3.5.40.16 - TX Measurement' software interface. The main window shows an 'IQ Constellation' plot with a grid from -1 to 1 on both axes. The plot contains several clusters of blue data points. To the right of the plot, a 'Statistic Count' bar shows 20/20, and '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 top menu bar with 'Multi Evaluation', 'PRACH', and 'SRS' options. Below the plot, the status bar shows 'PS: Connection Established' and 'RRC State: Connected'. A bottom toolbar contains buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'. A vertical sidebar on the right contains buttons for 'LTE', 'Multi Evaluation RUN', 'RF Settings', 'Trigger', 'Display', 'Marker', 'Signaling Parameter', and 'LTE Signaling ON'.



3.1.1.6 Test Mode = LTE /TM2 3MHz

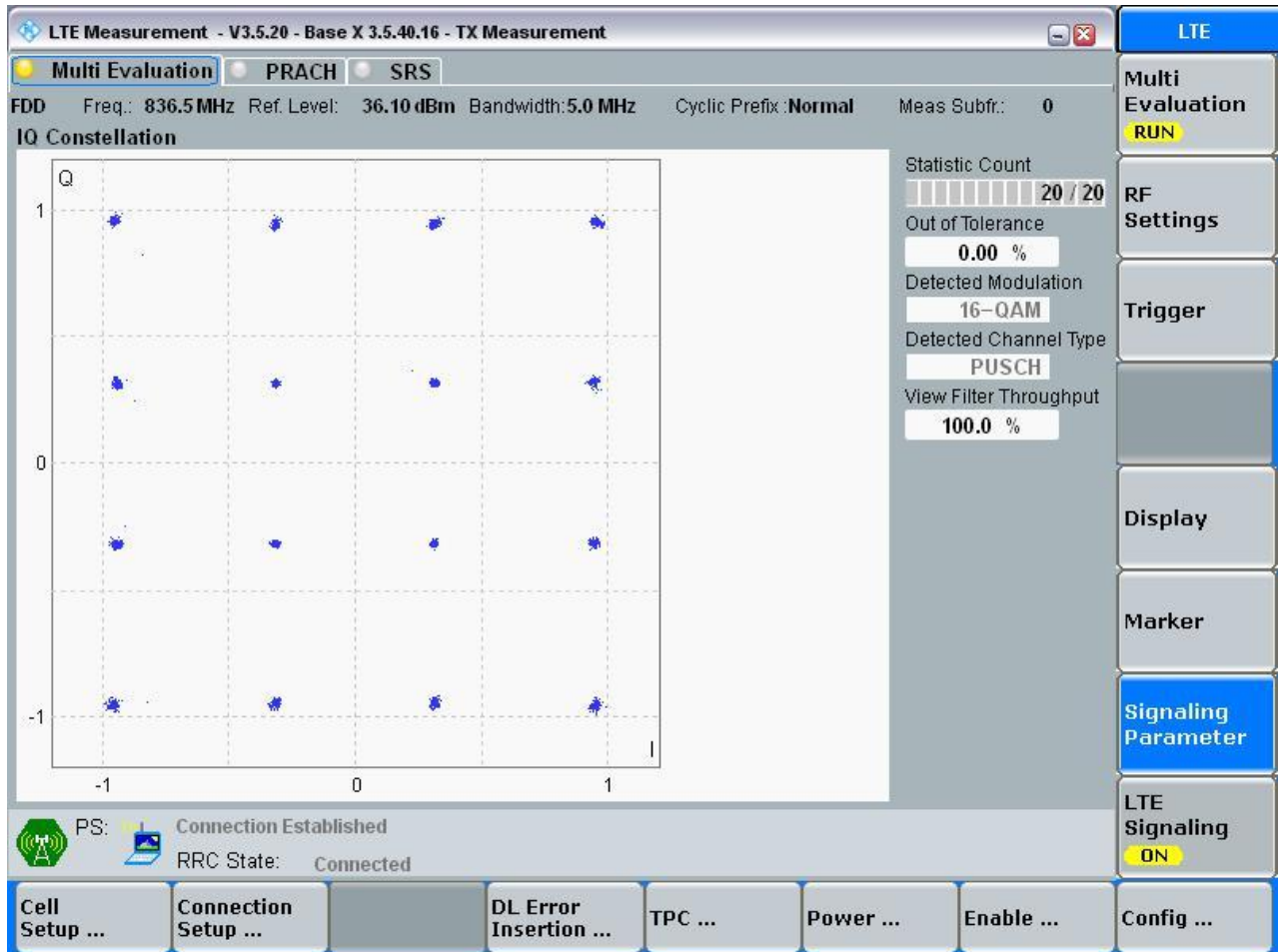
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 5MHz

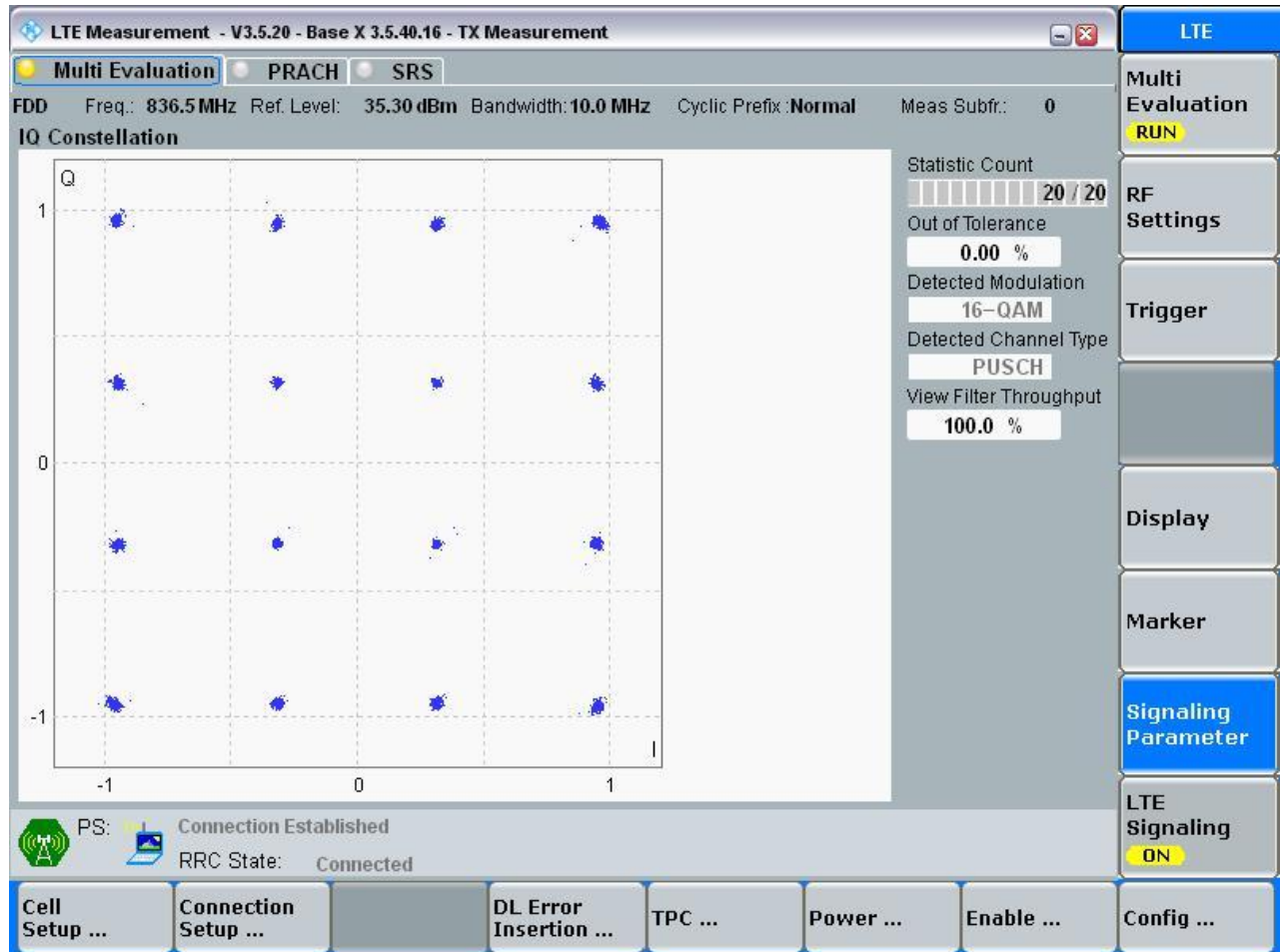
3.1.1.7.1 Test Channel = MCH





3.1.1.8 Test Mode = LTE /TM2 10MHz

3.1.1.8.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 5	TM1/1.4MHz	LCH	1.10	1.29	PASS
		MCH	1.09	1.27	PASS
		HCH	1.10	1.27	PASS
	TM2/1.4MHz	LCH	1.09	1.26	PASS
		MCH	1.10	1.29	PASS
		HCH	1.10	1.26	PASS
	TM1/ 3MHz	LCH	2.69	2.90	PASS
		MCH	2.69	2.90	PASS
		HCH	2.69	2.91	PASS
	TM2/3MHz	LCH	2.68	2.91	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.90	PASS
	TM1/ 5MHz	LCH	4.49	4.94	PASS
		MCH	4.50	4.98	PASS
		HCH	4.48	4.94	PASS
	TM2/ 5MHz	LCH	4.49	4.98	PASS
		MCH	4.49	4.94	PASS
		HCH	4.49	4.96	PASS
	TM1/10MHz	LCH	8.93	9.63	PASS
		MCH	8.99	9.81	PASS
		HCH	8.91	9.67	PASS
TM2/ 10MHz	LCH	8.93	9.69	PASS	
	MCH	8.97	9.71	PASS	
	HCH	8.91	9.65	PASS	

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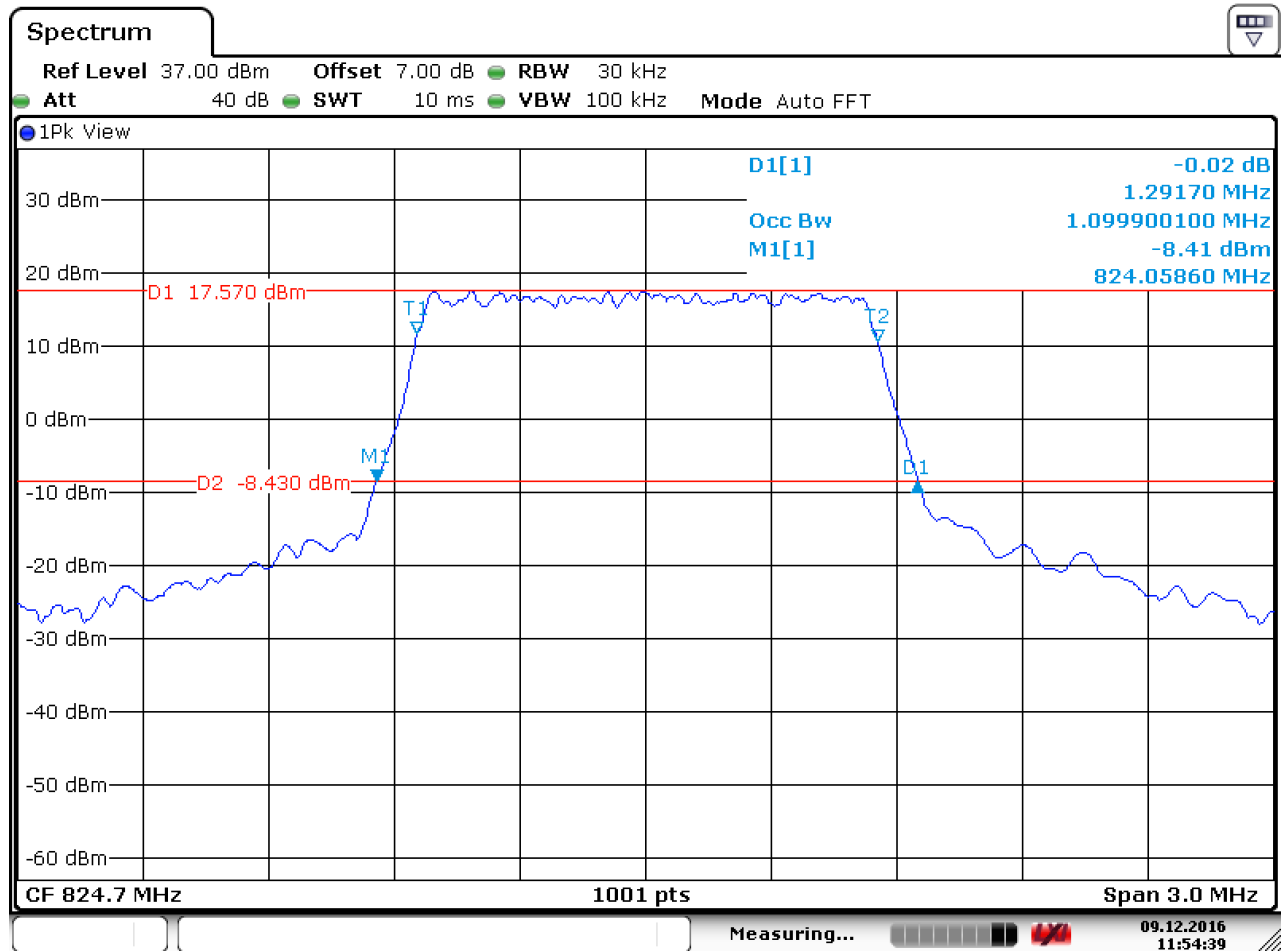
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band5

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

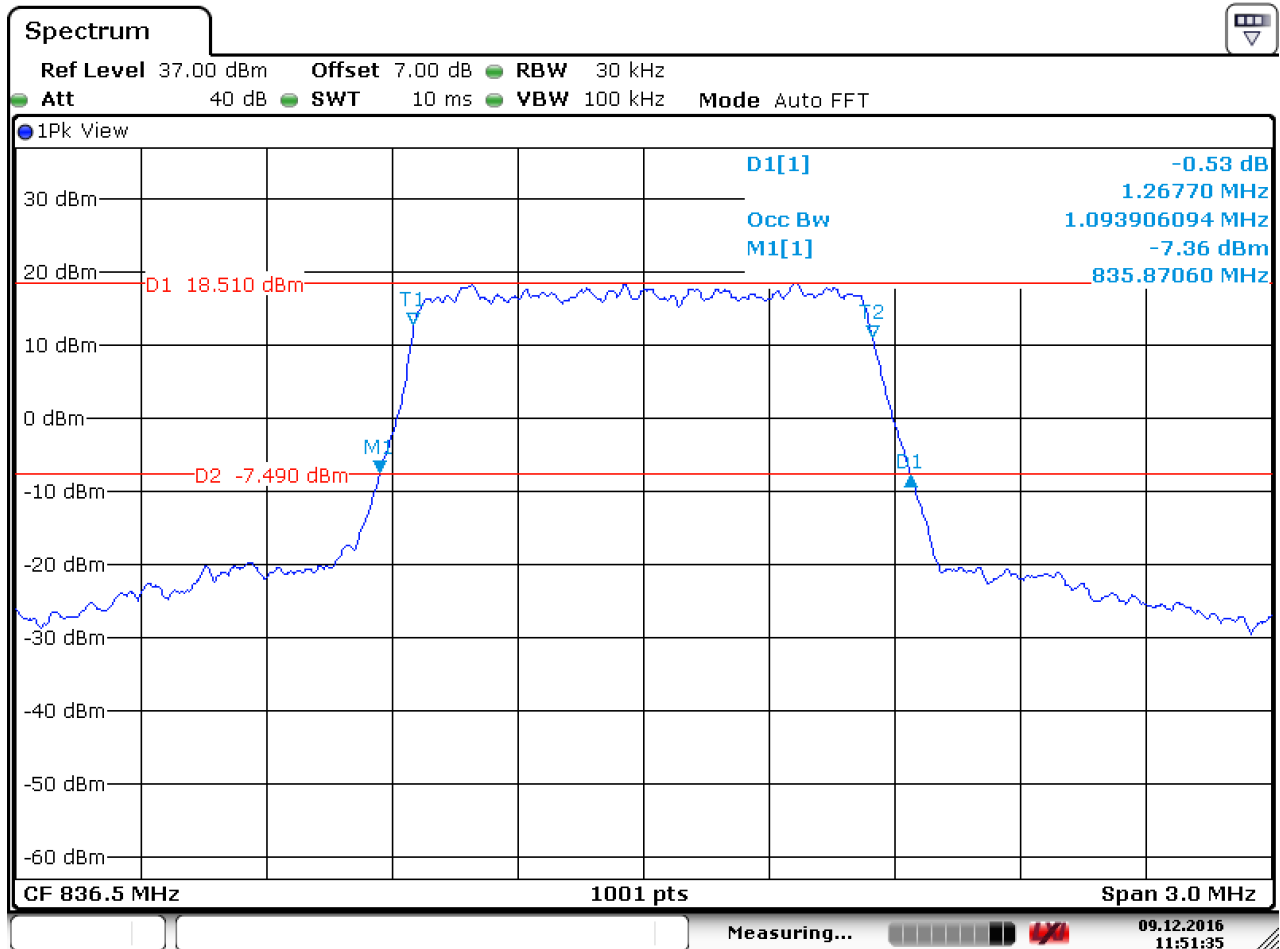


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4.1.1.1.2 Test Channel = MCH

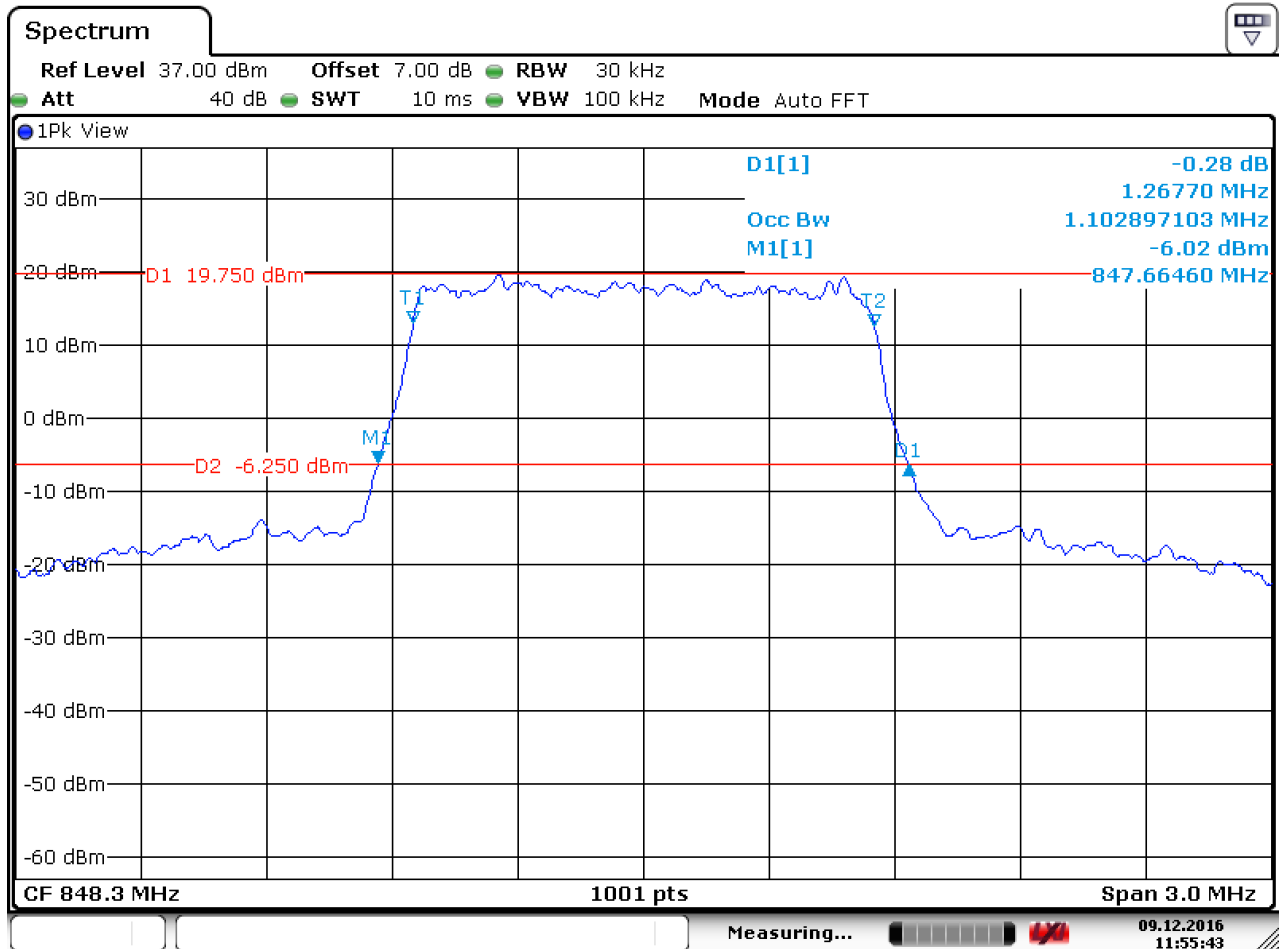


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4.1.1.1.3 Test Channel = HCH



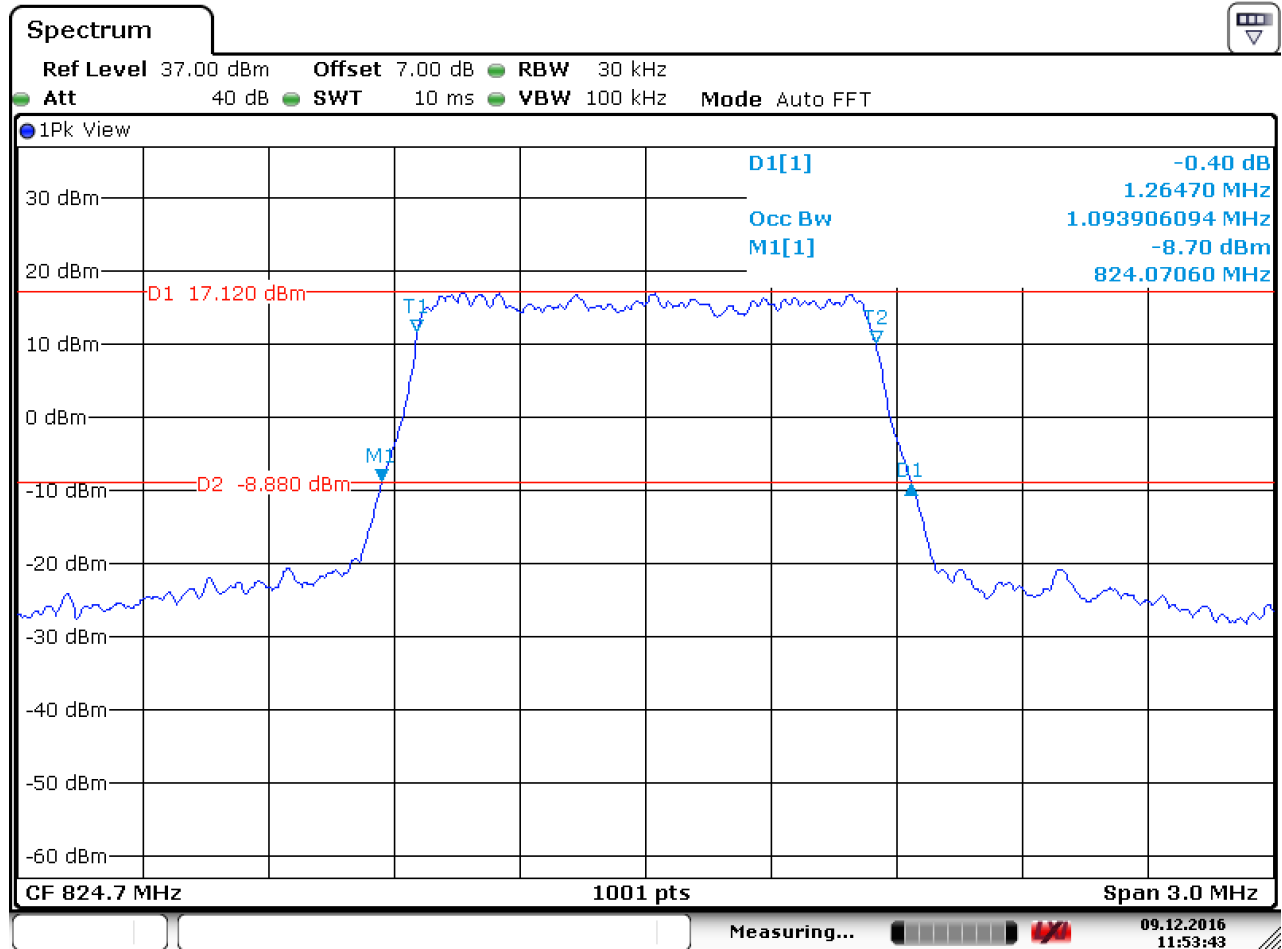
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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

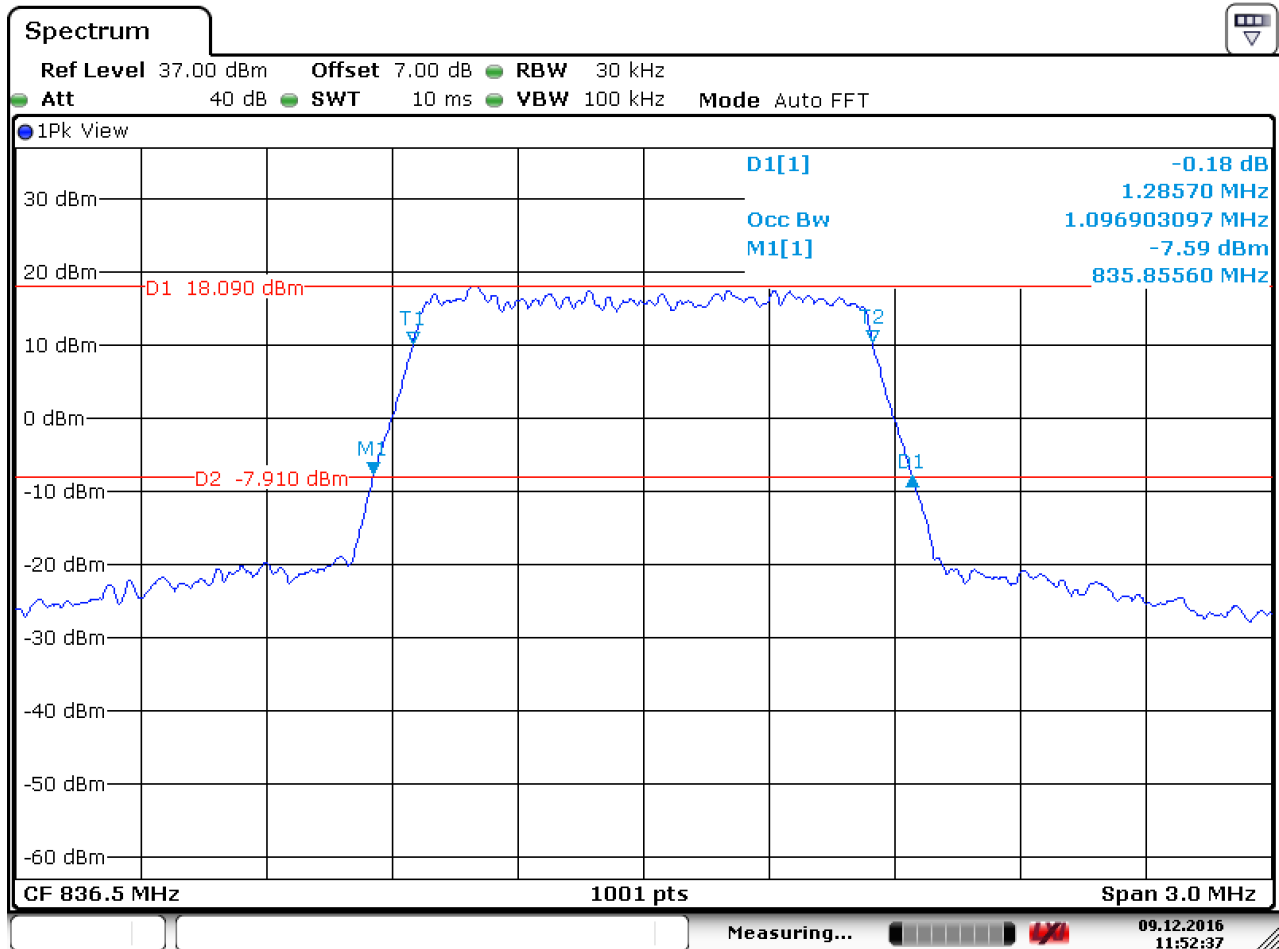


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4.1.1.2.2 Test Channel = MCH

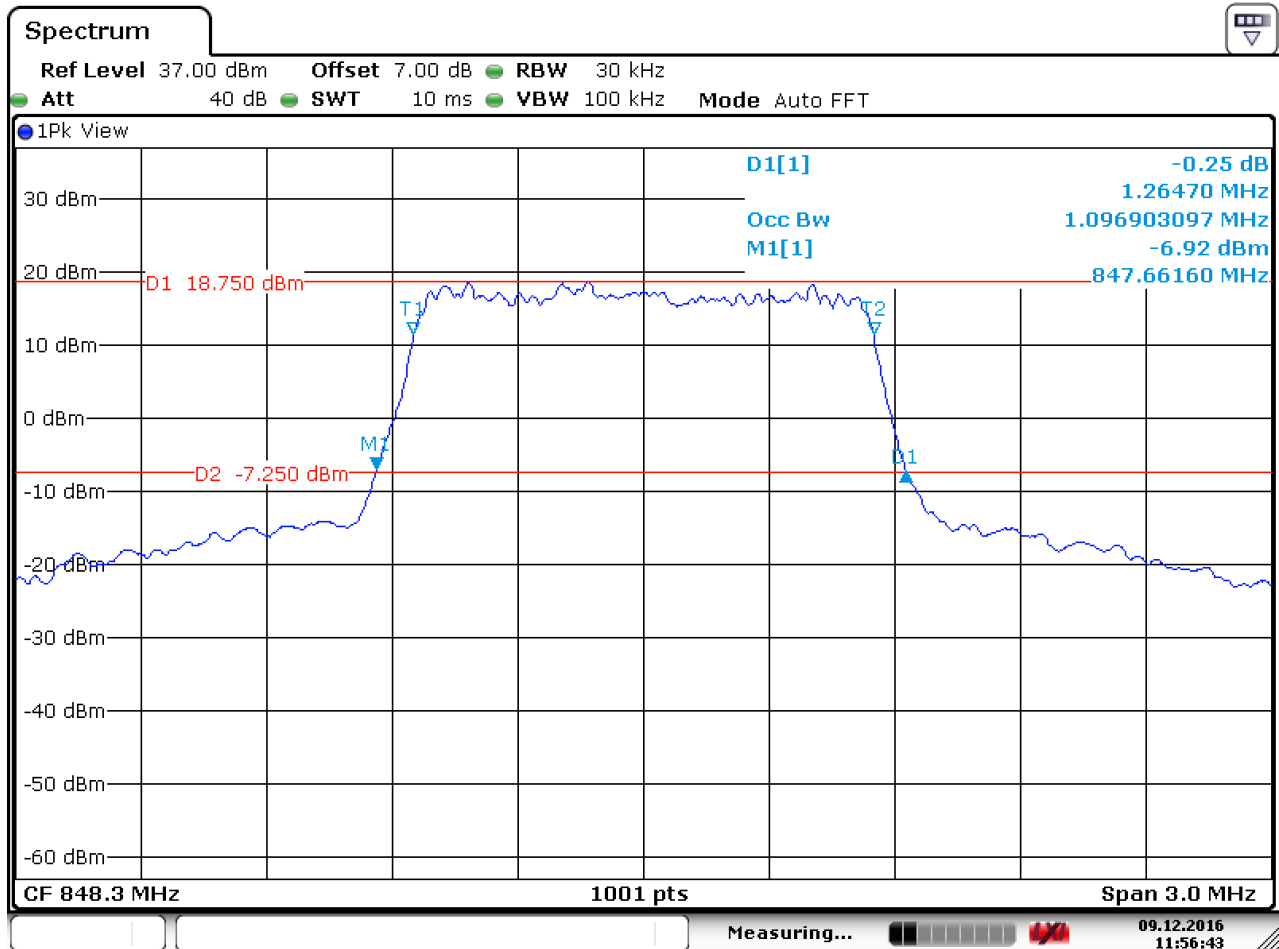


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4.1.1.2.3 Test Channel = HCH

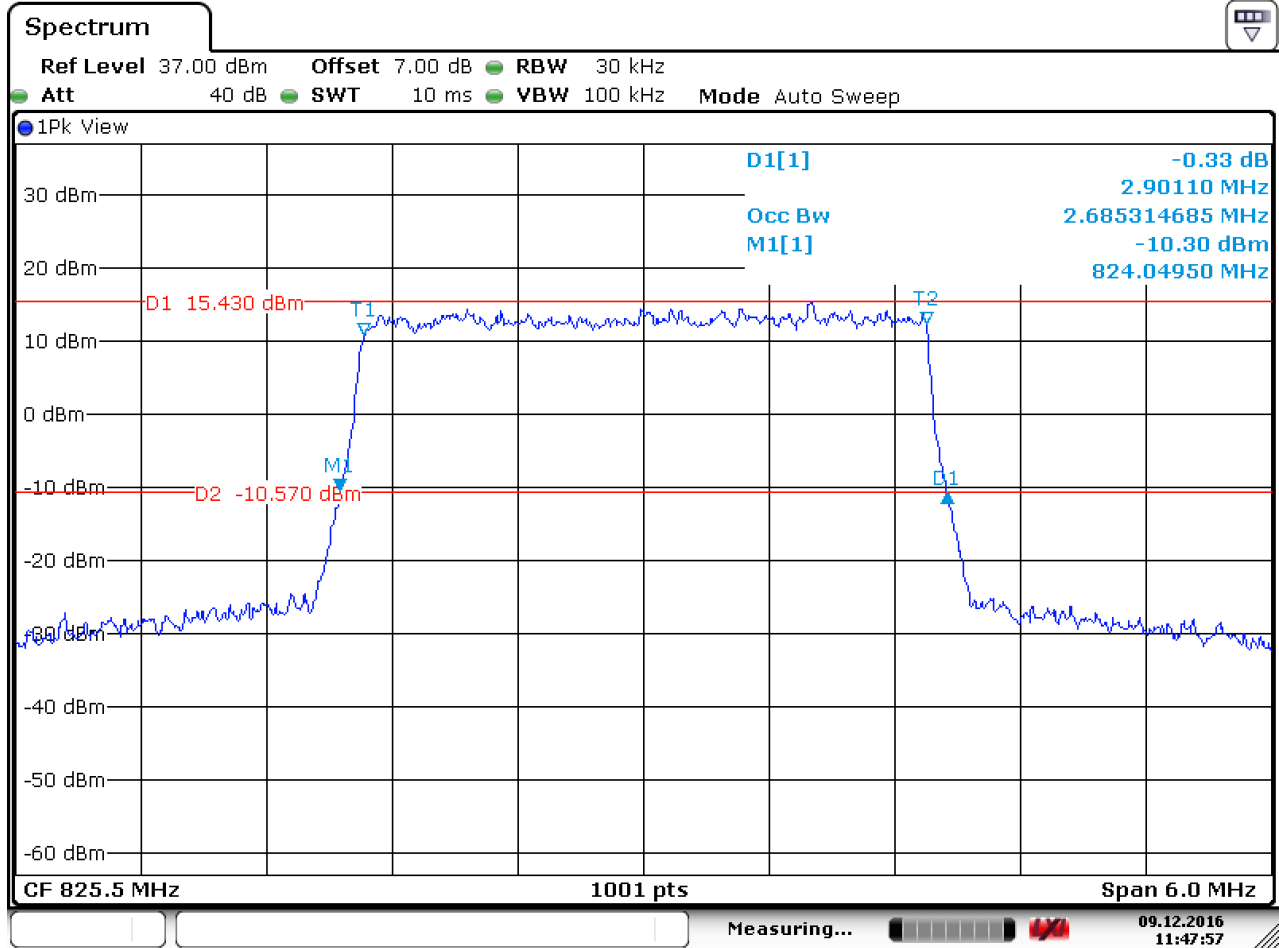


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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

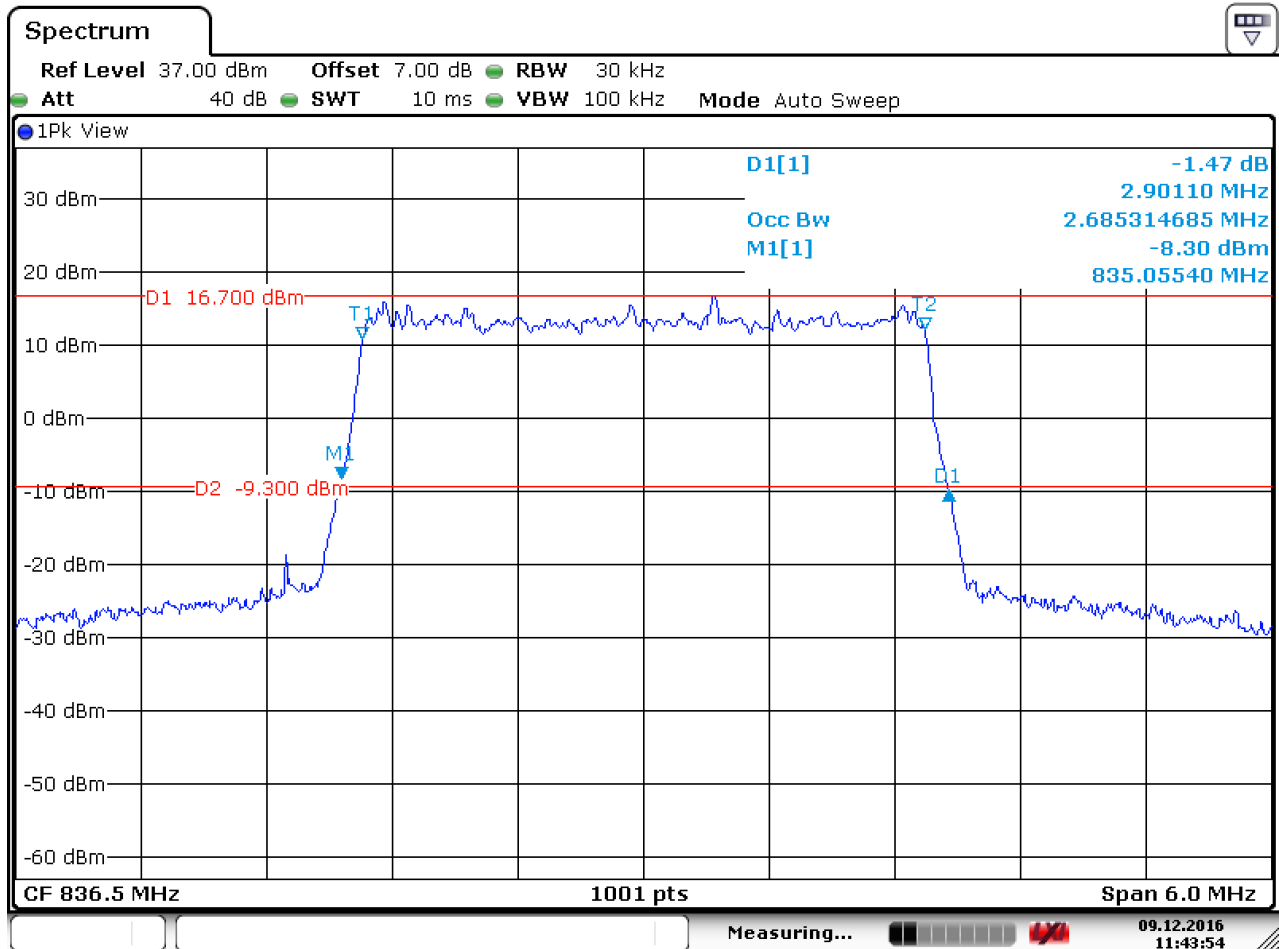


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4.1.1.3.2 Test Channel = MCH

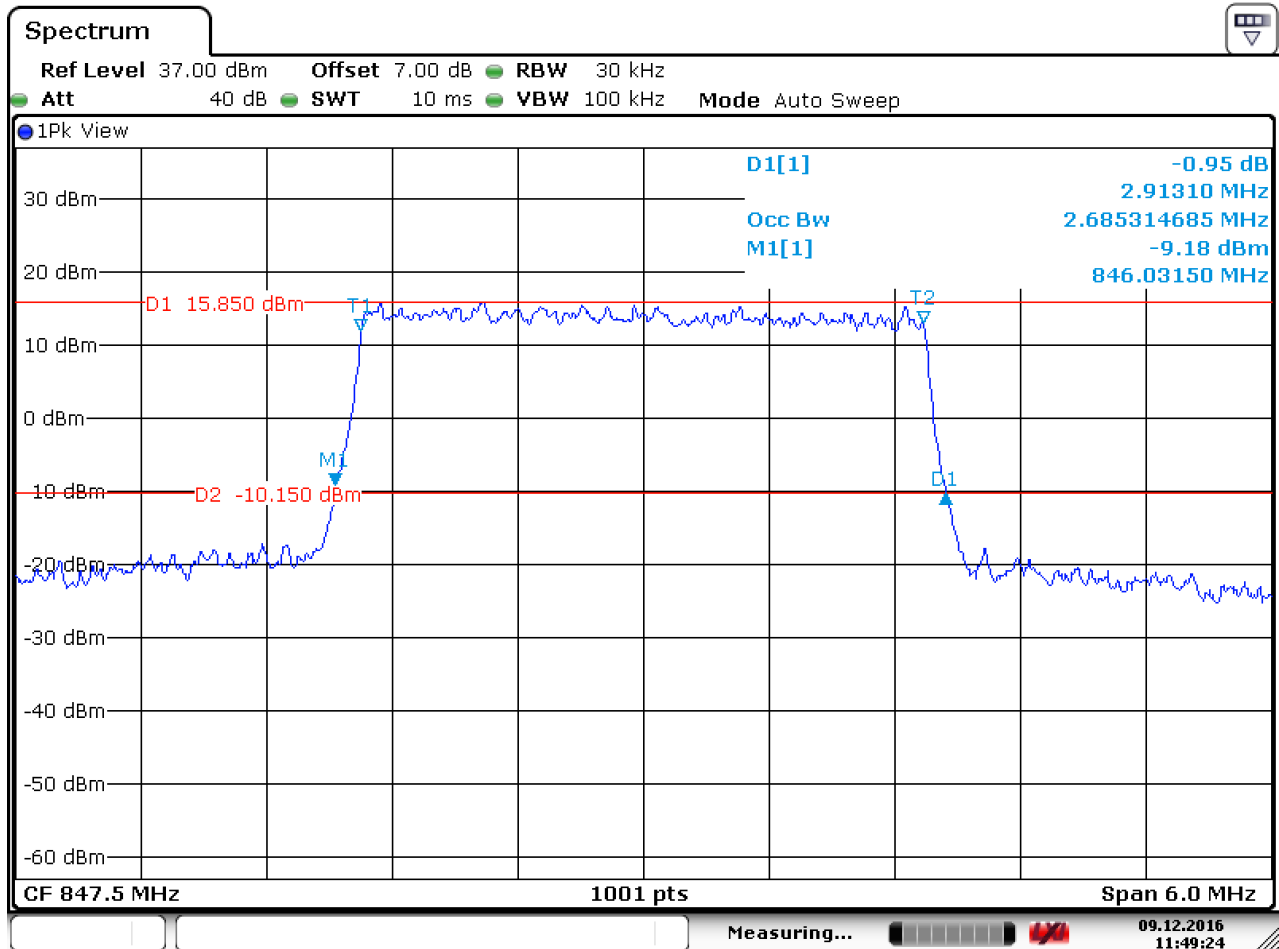


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4.1.1.3.3 Test Channel = HCH



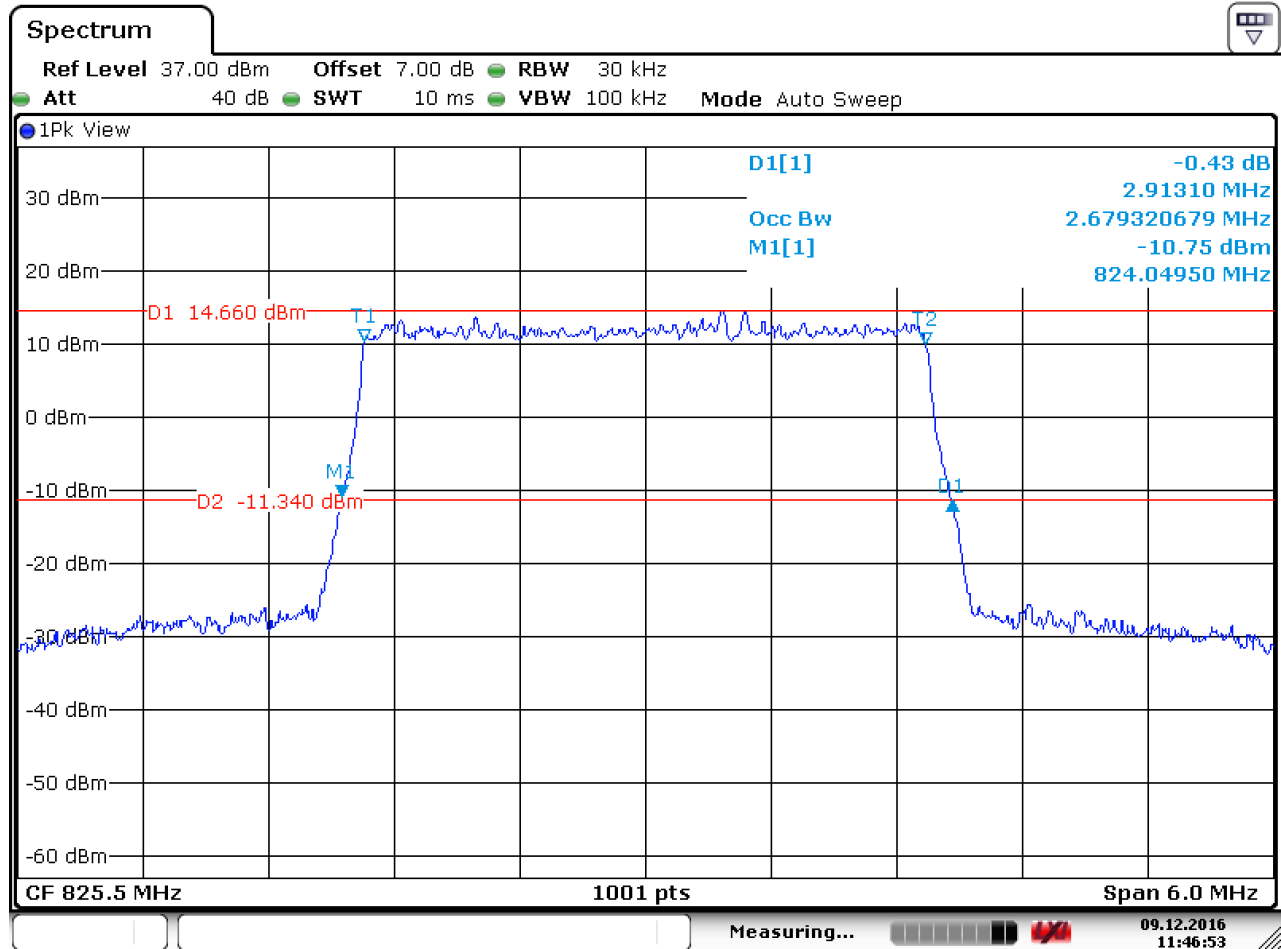
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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

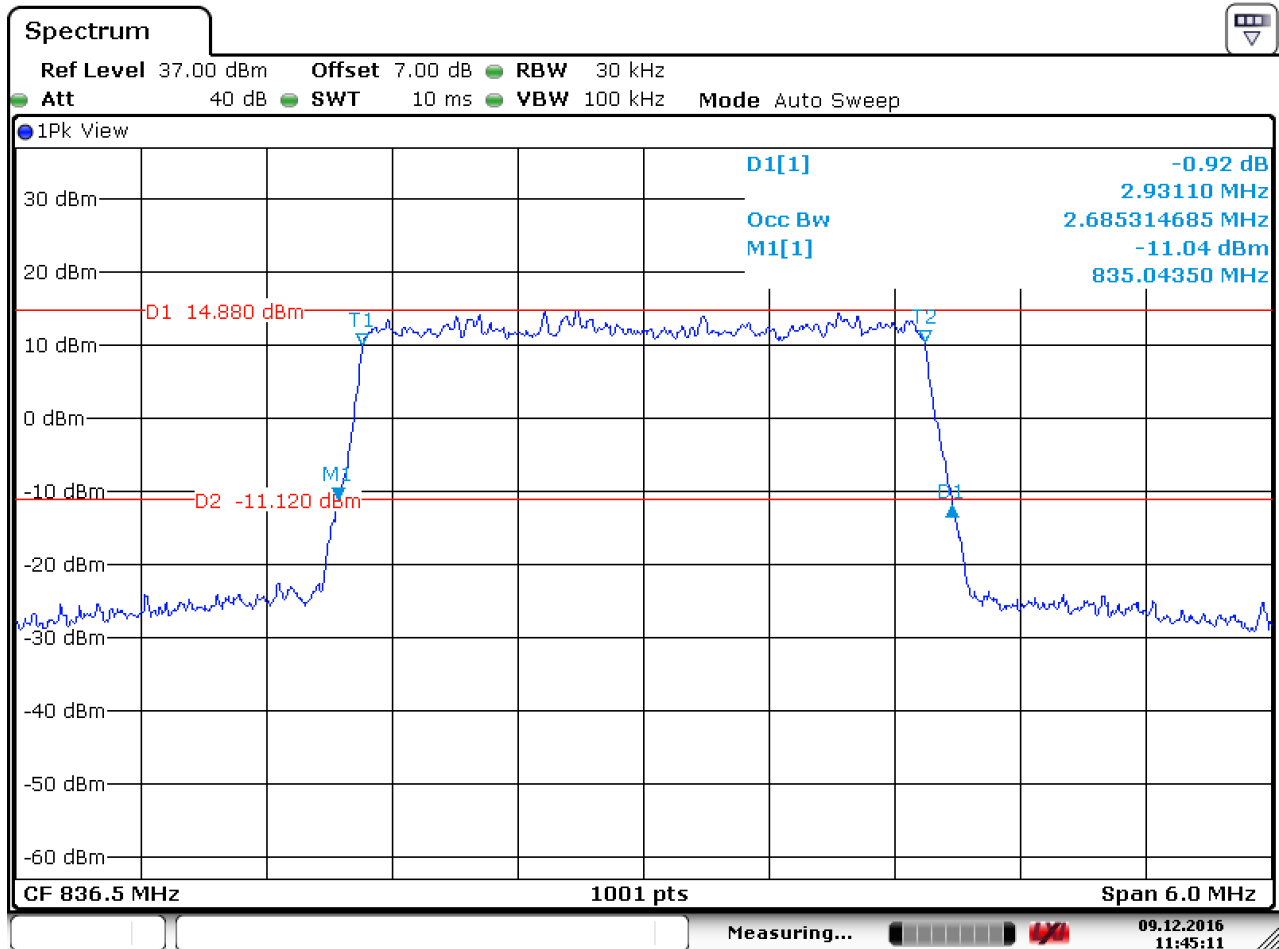


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4.1.1.4.2 Test Channel = MCH

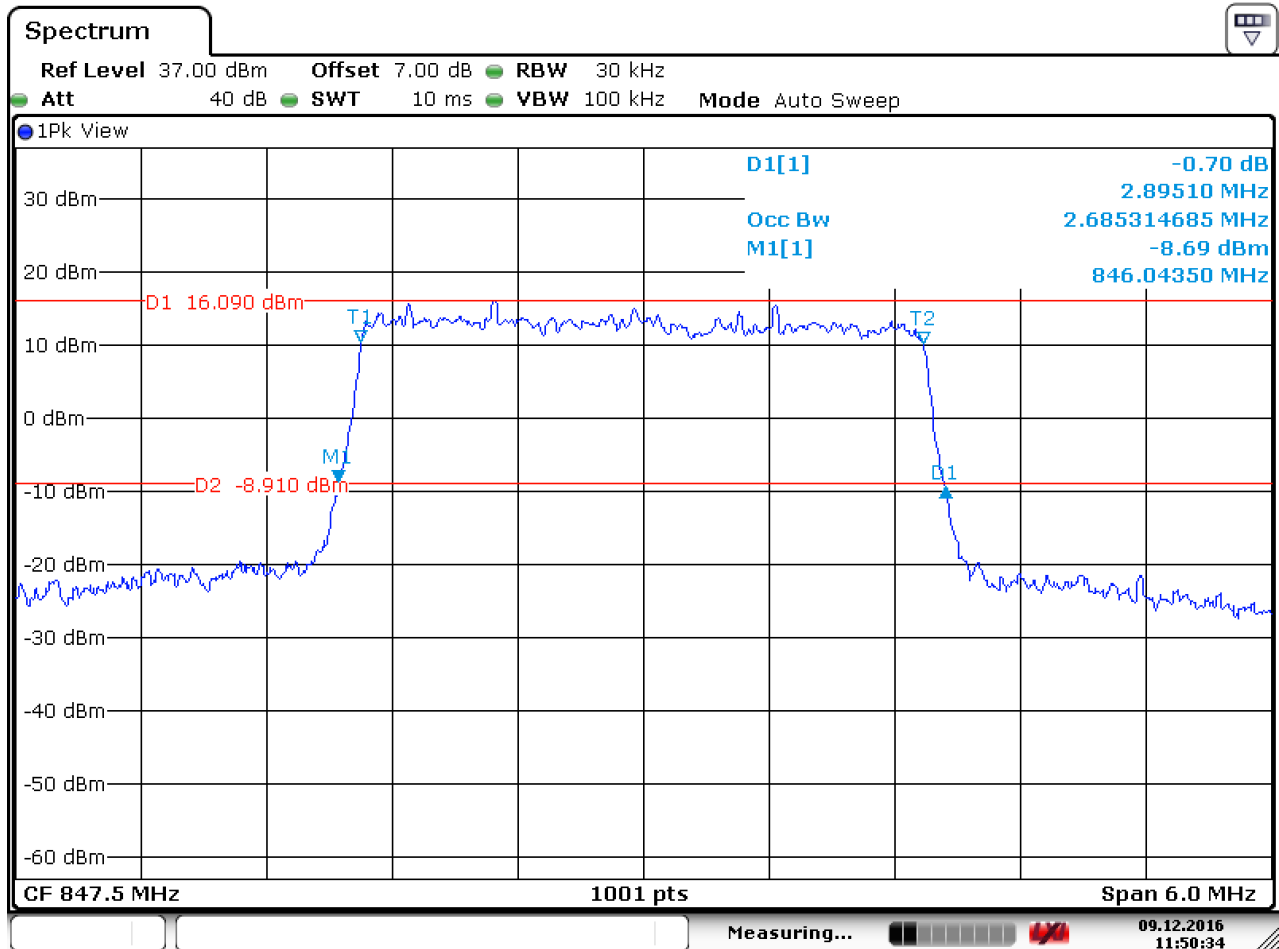


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4.1.1.4.3 Test Channel = HCH



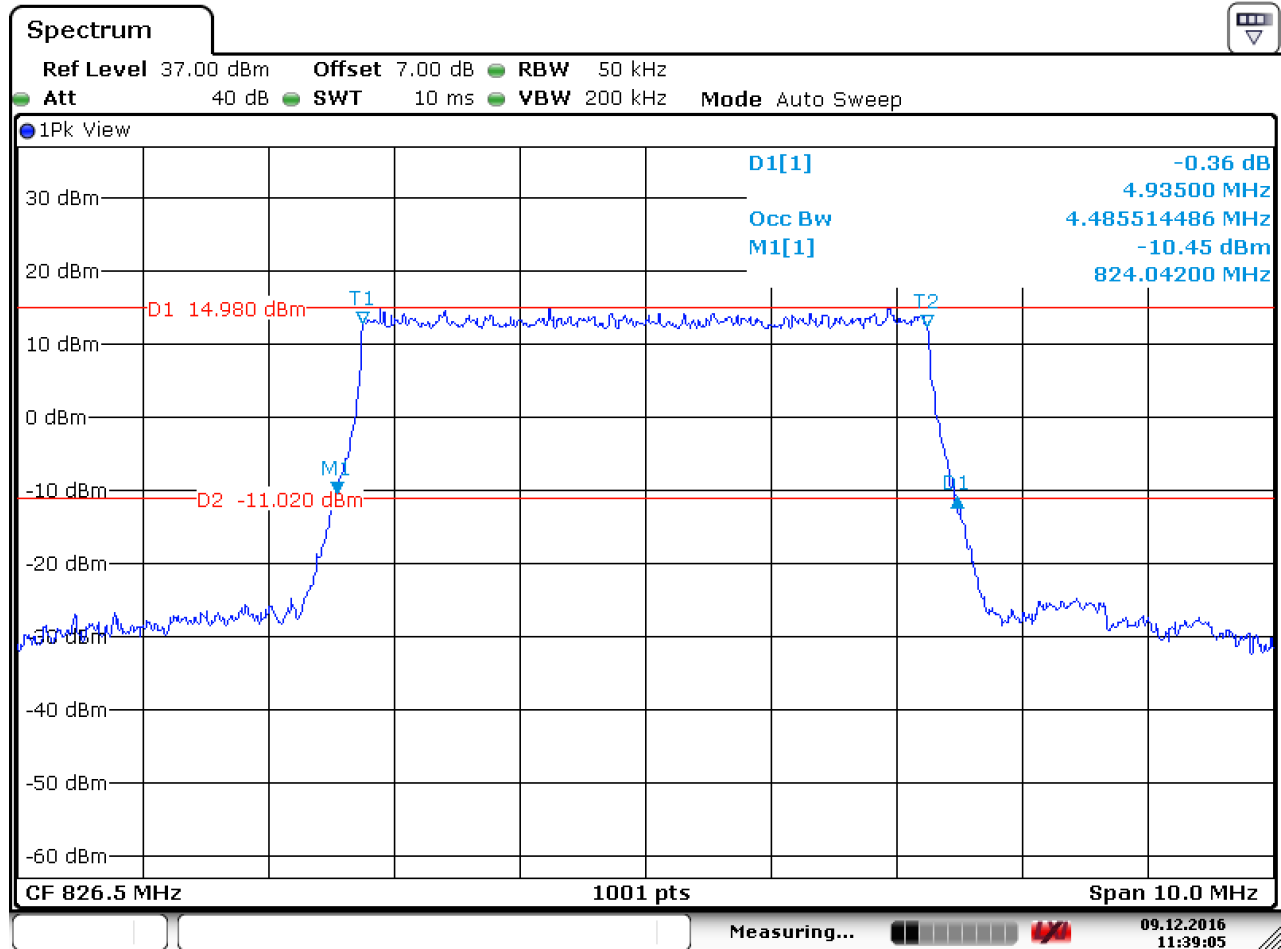
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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

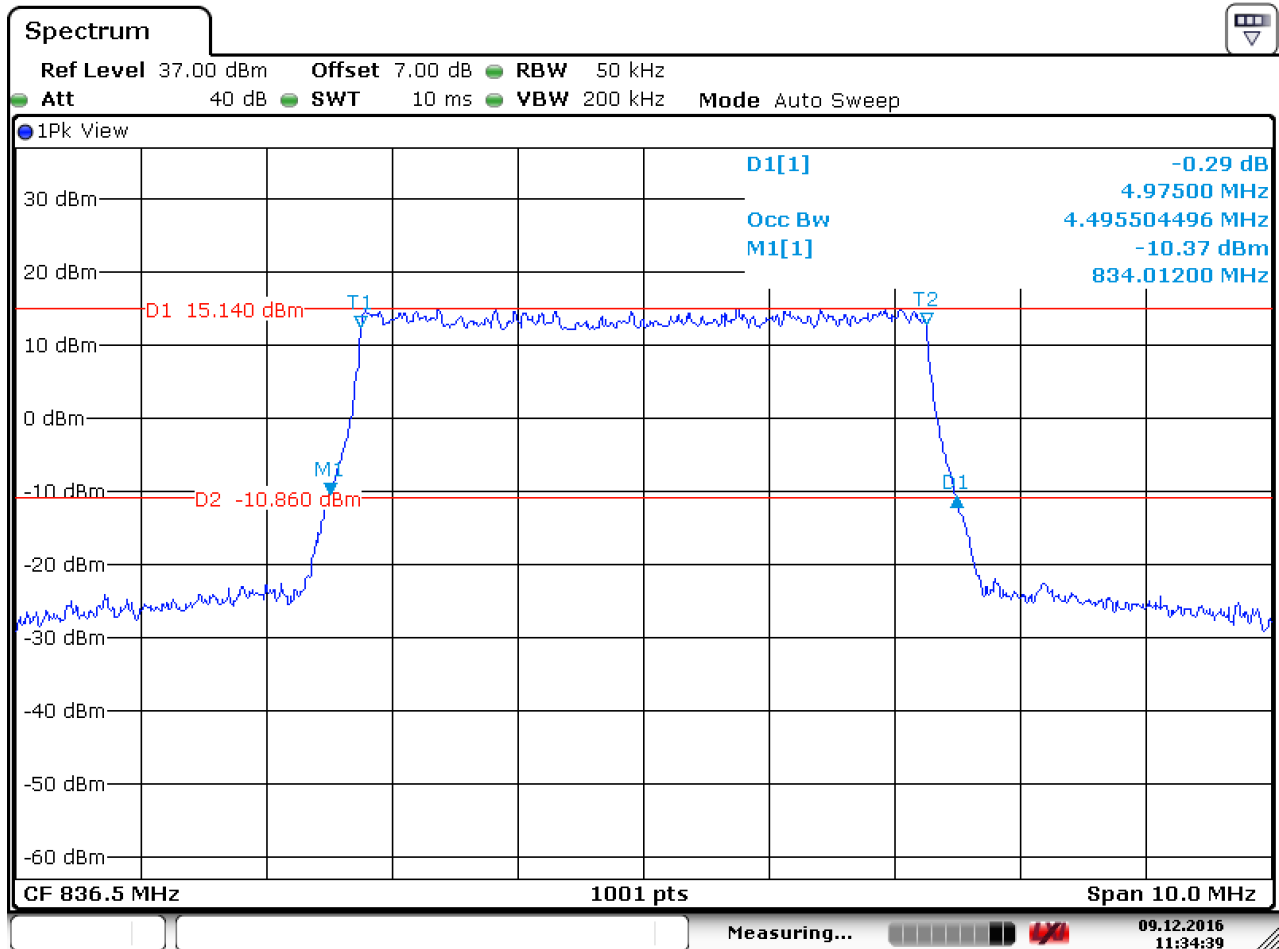


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4.1.1.5.2 Test Channel = MCH

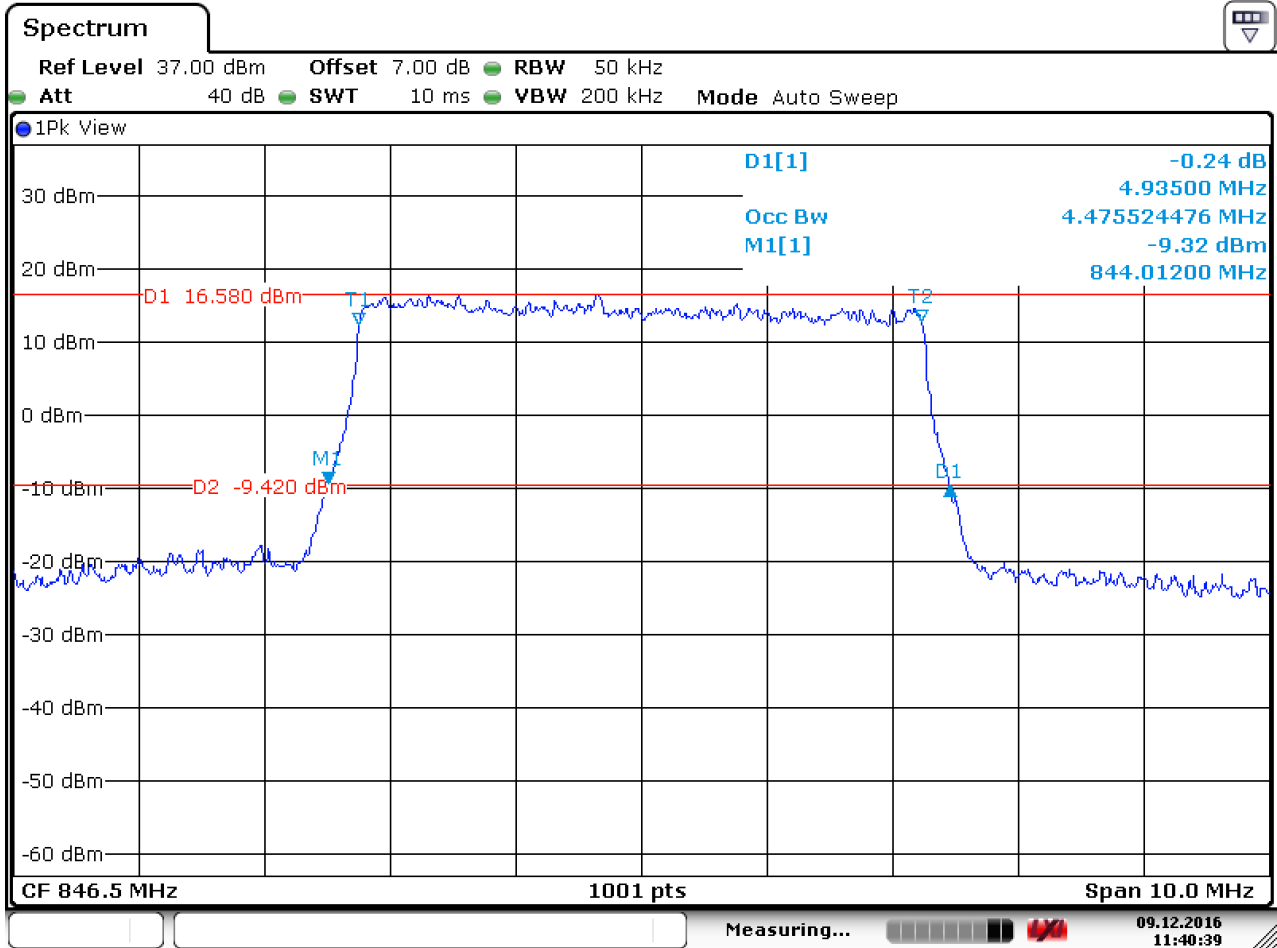


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4.1.1.5.3 Test Channel = HCH



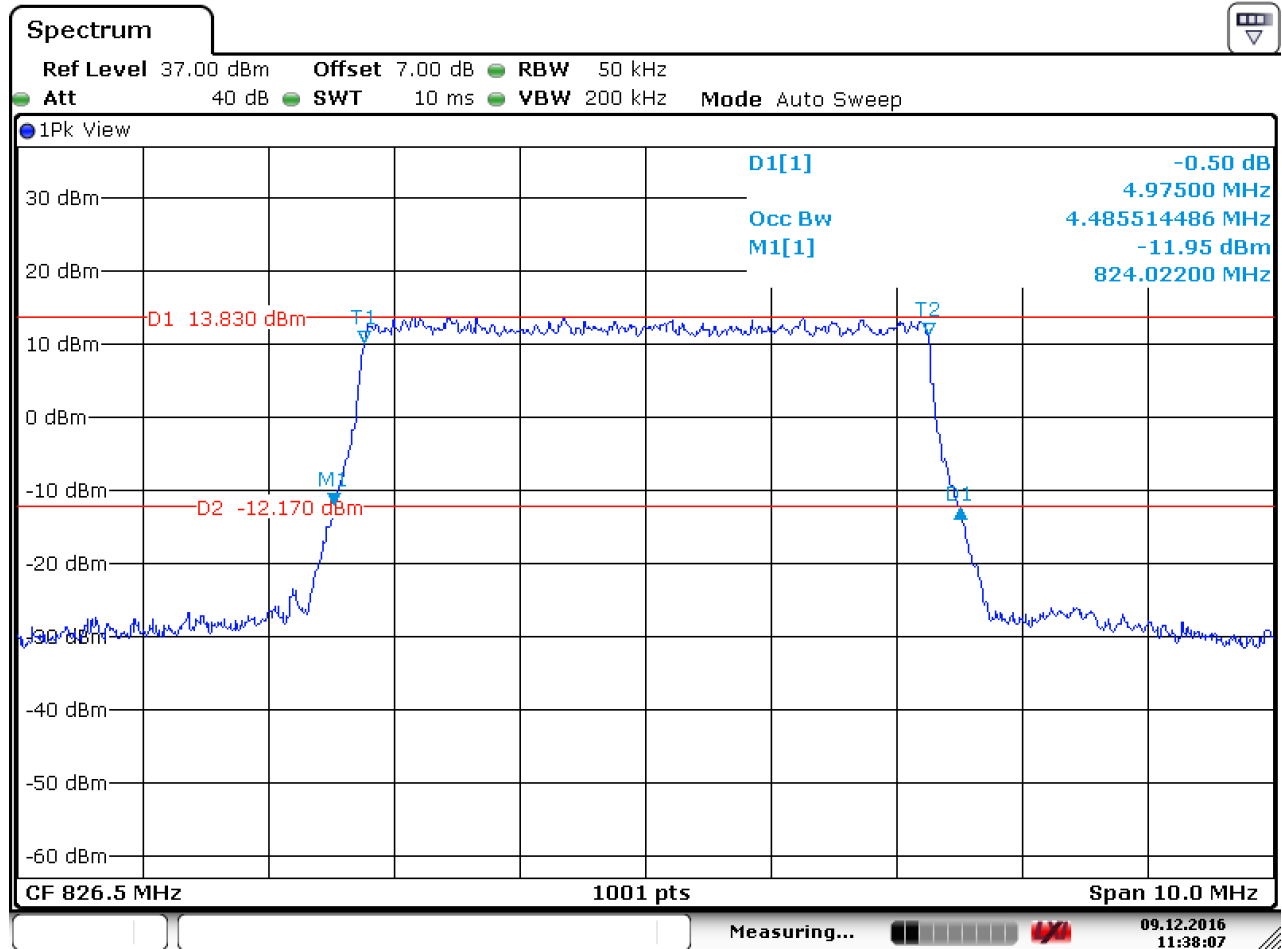
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

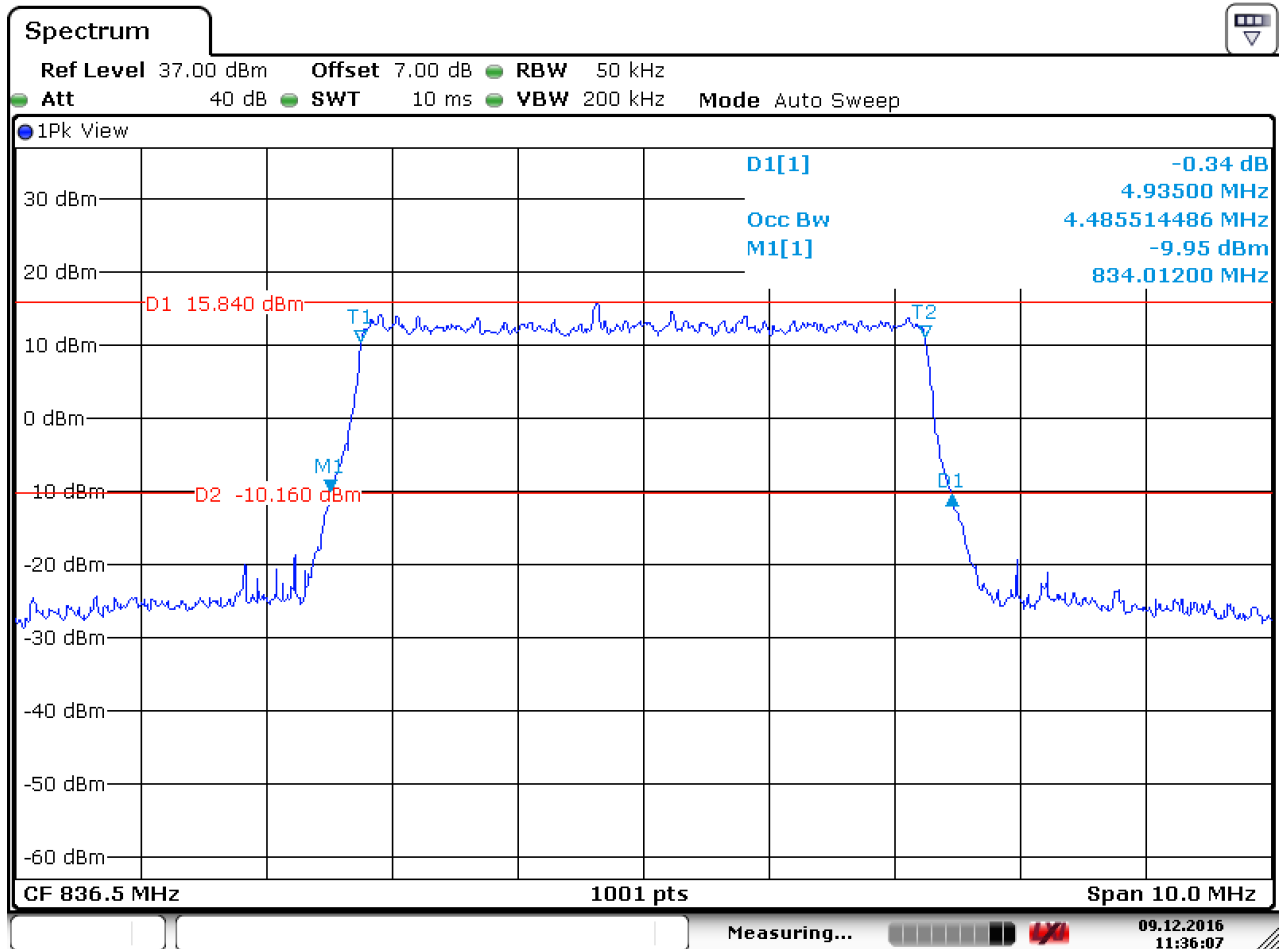


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4.1.1.6.2 Test Channel = MCH

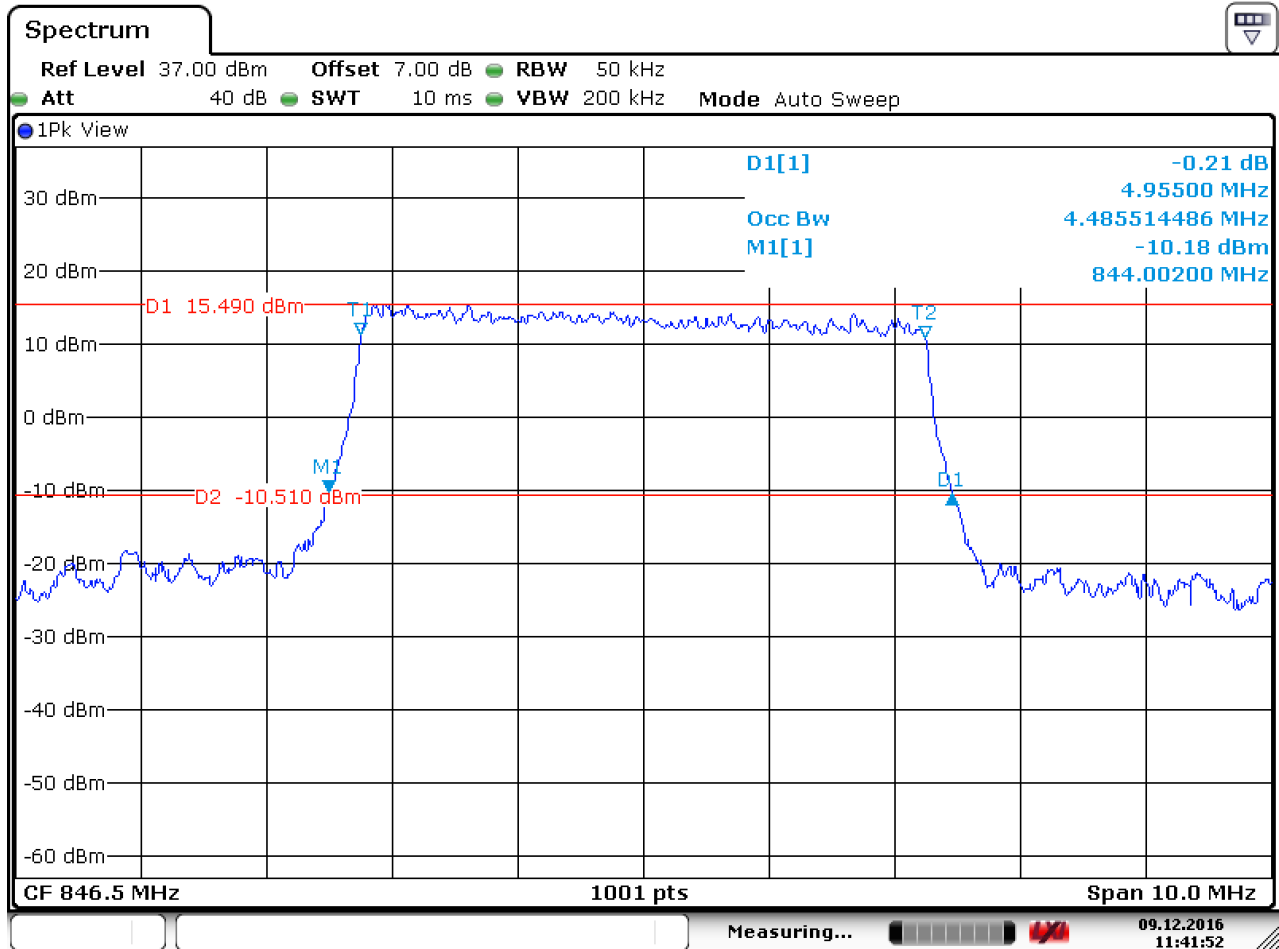


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4.1.1.6.3 Test Channel = HCH



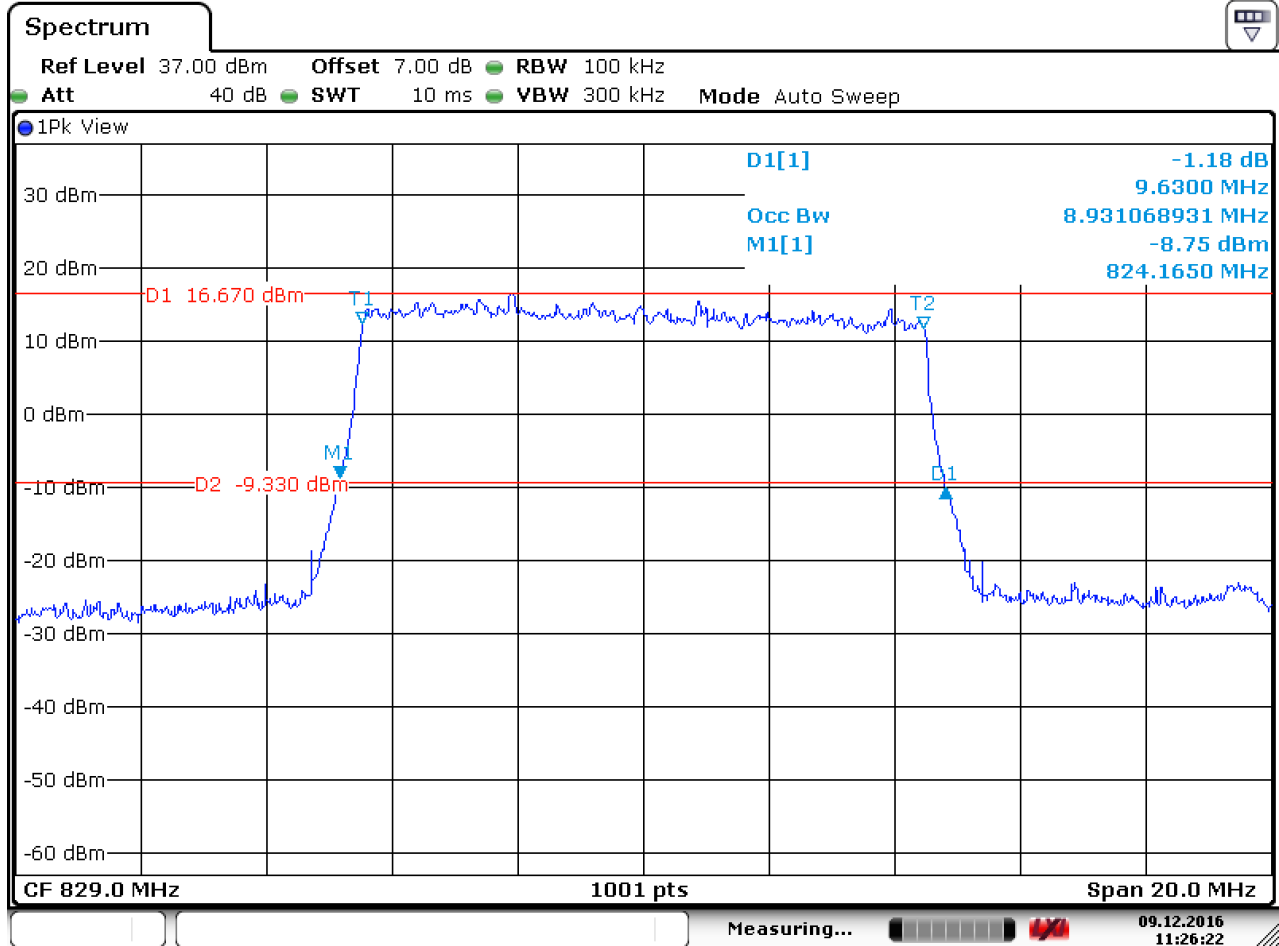
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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

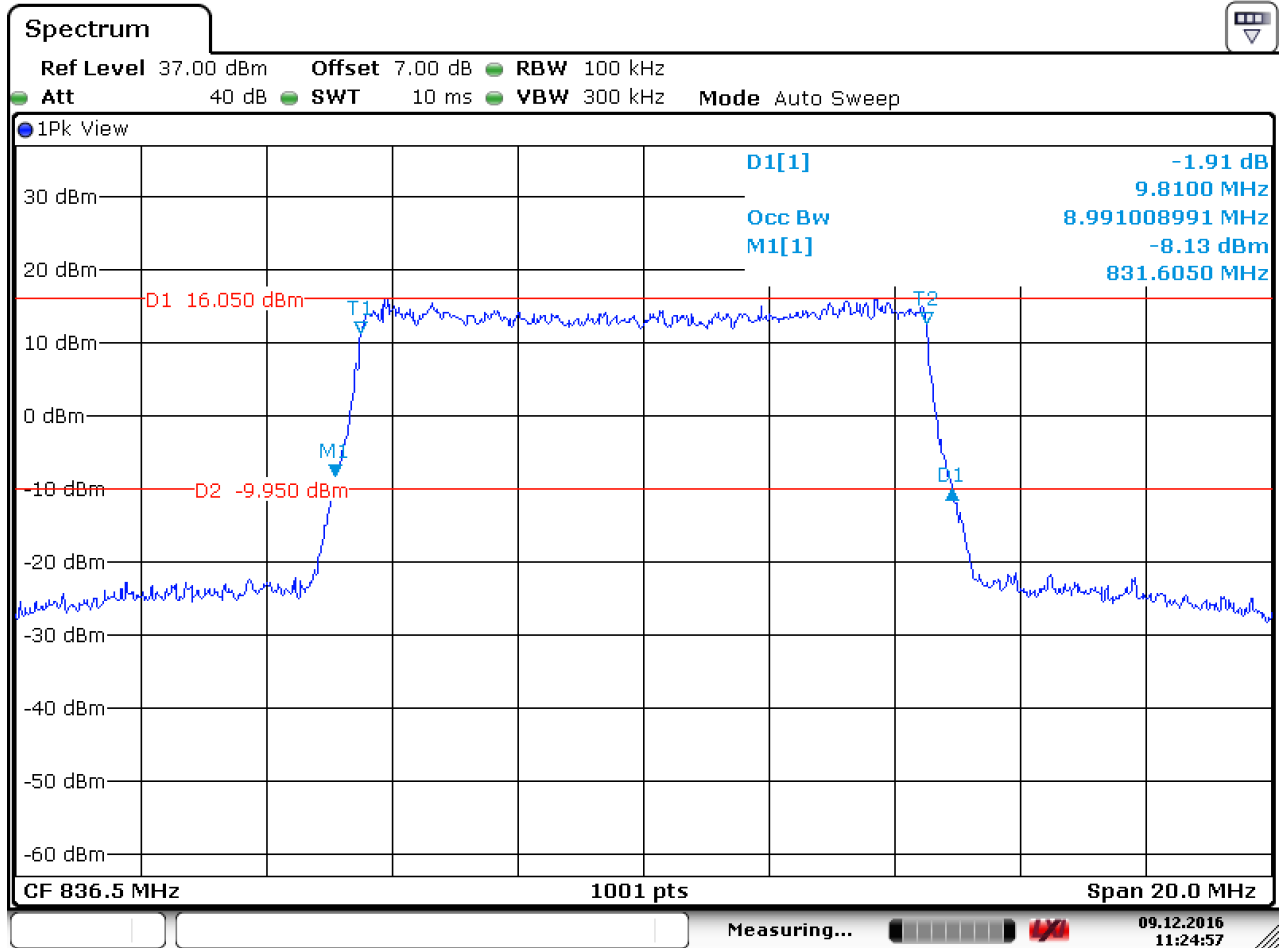


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4.1.1.7.2 Test Channel = MCH

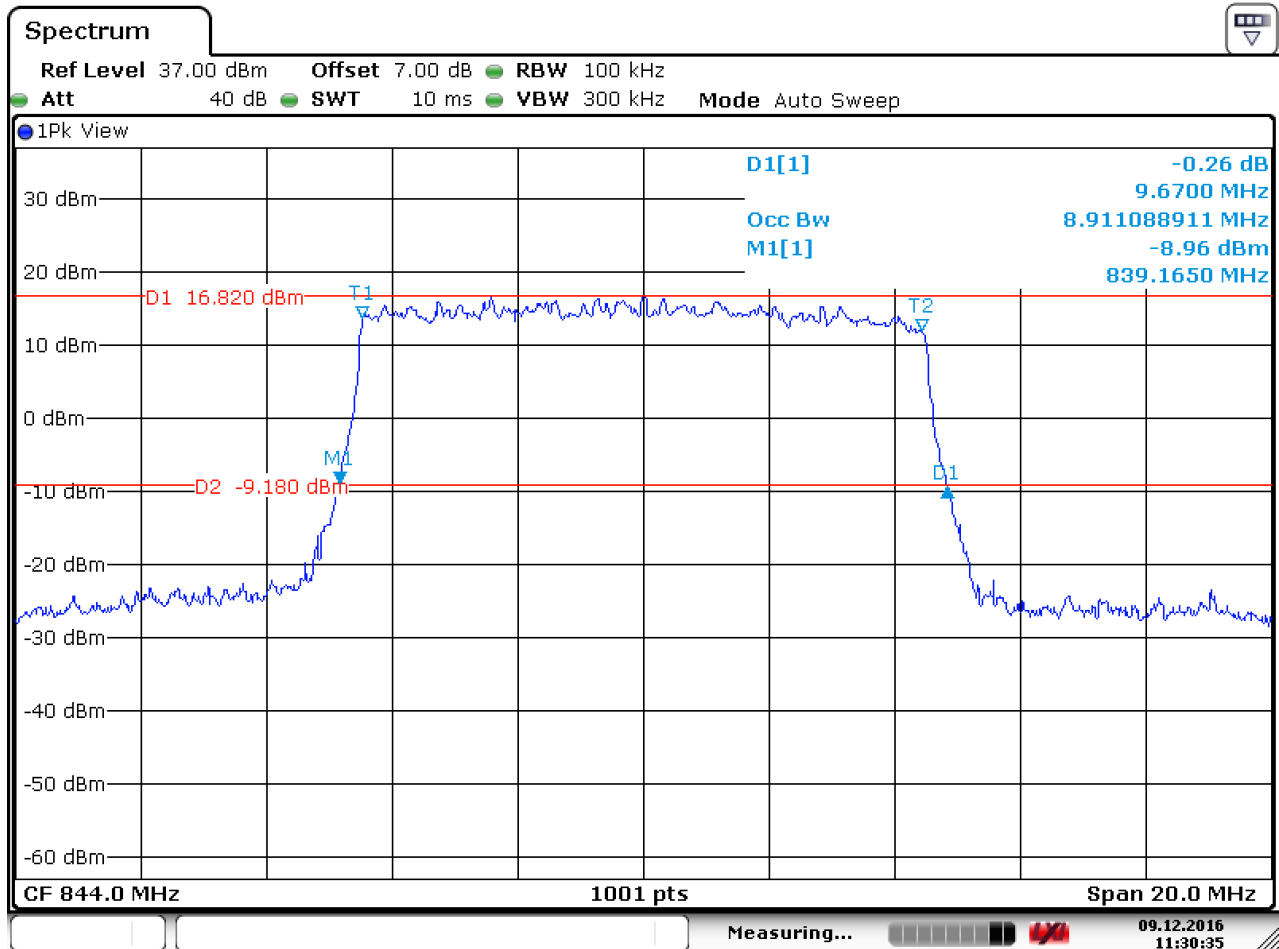


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4.1.1.7.3 Test Channel = HCH



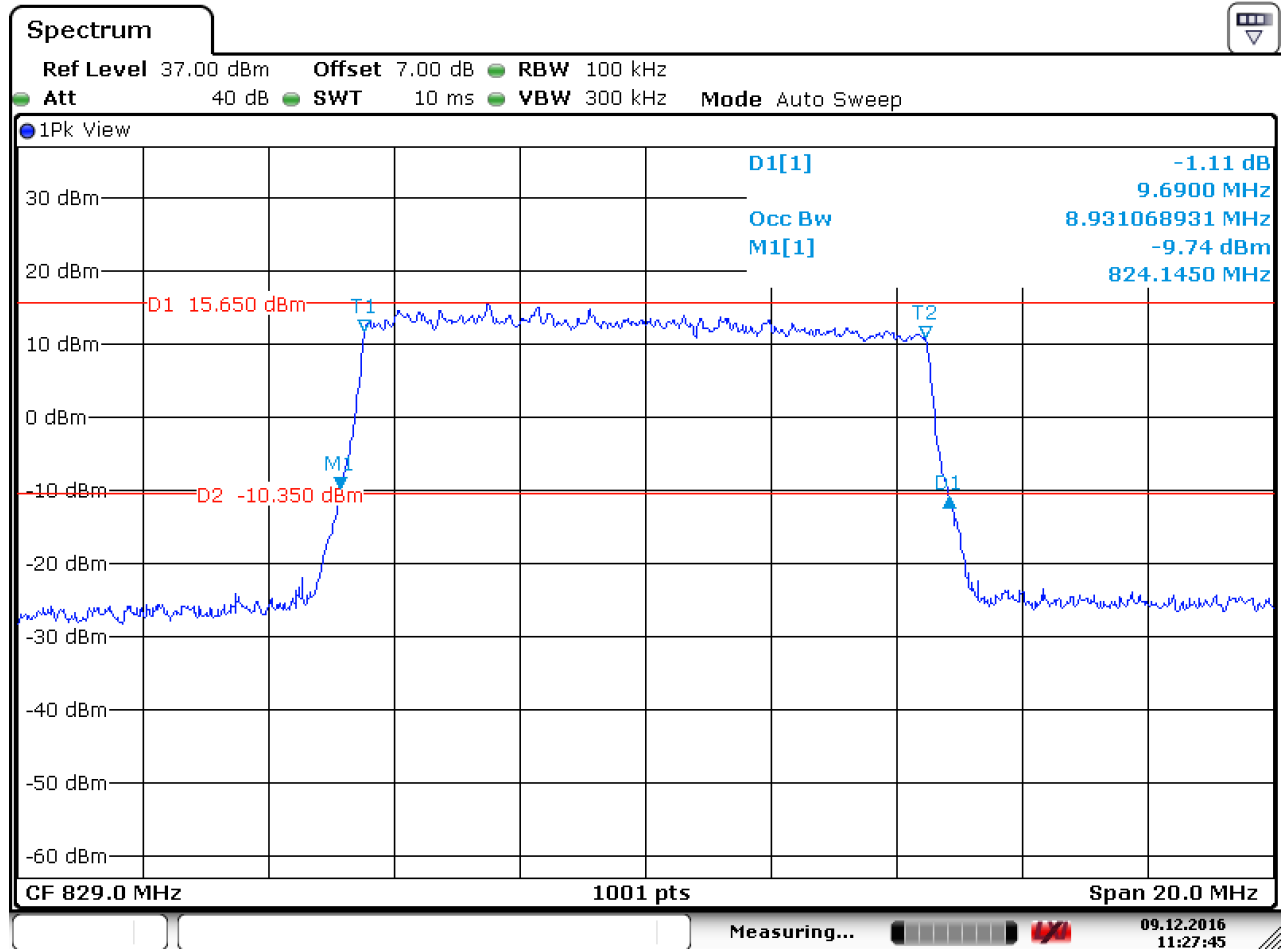
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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH

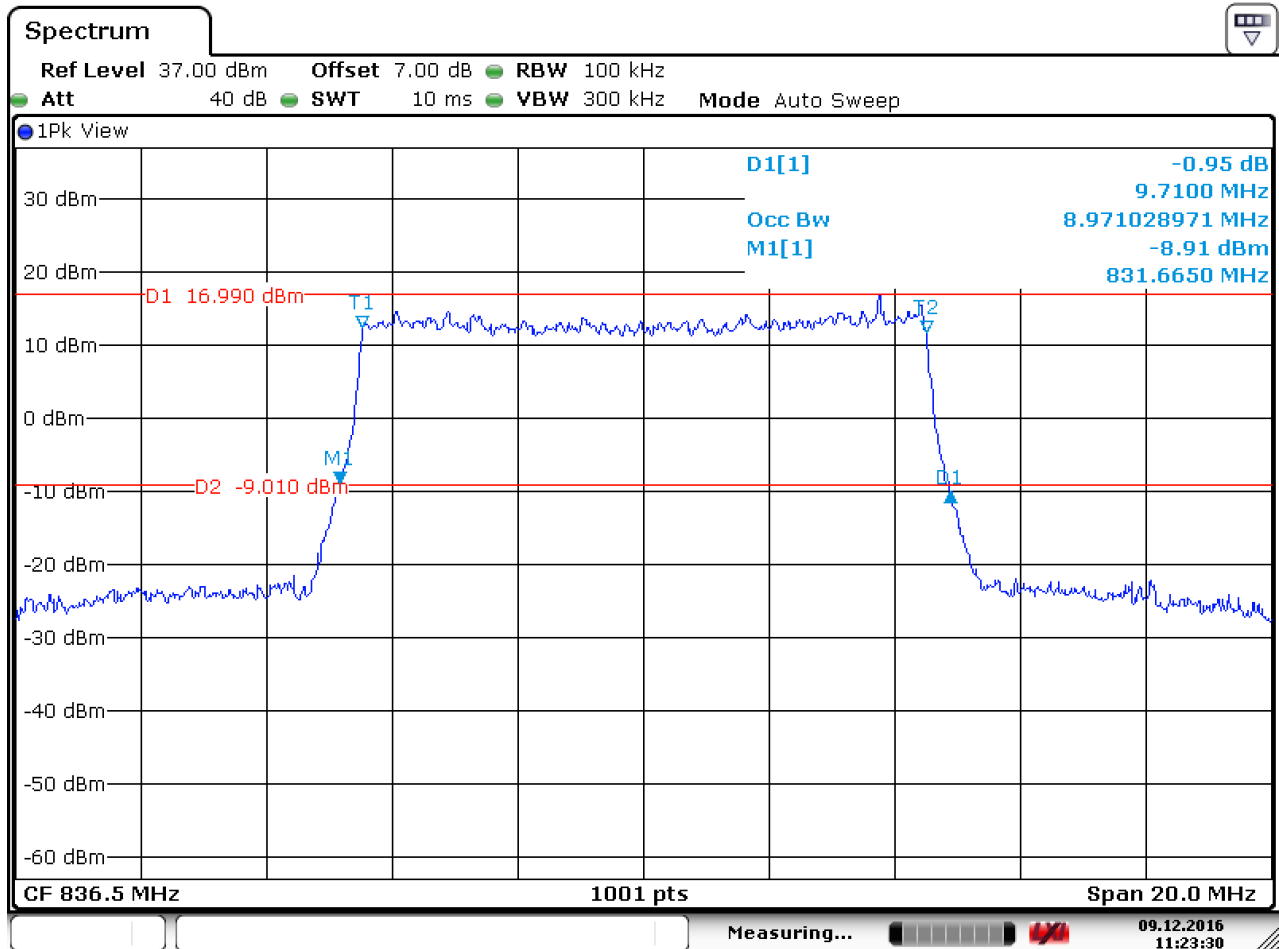


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4.1.1.8.2 Test Channel = MCH

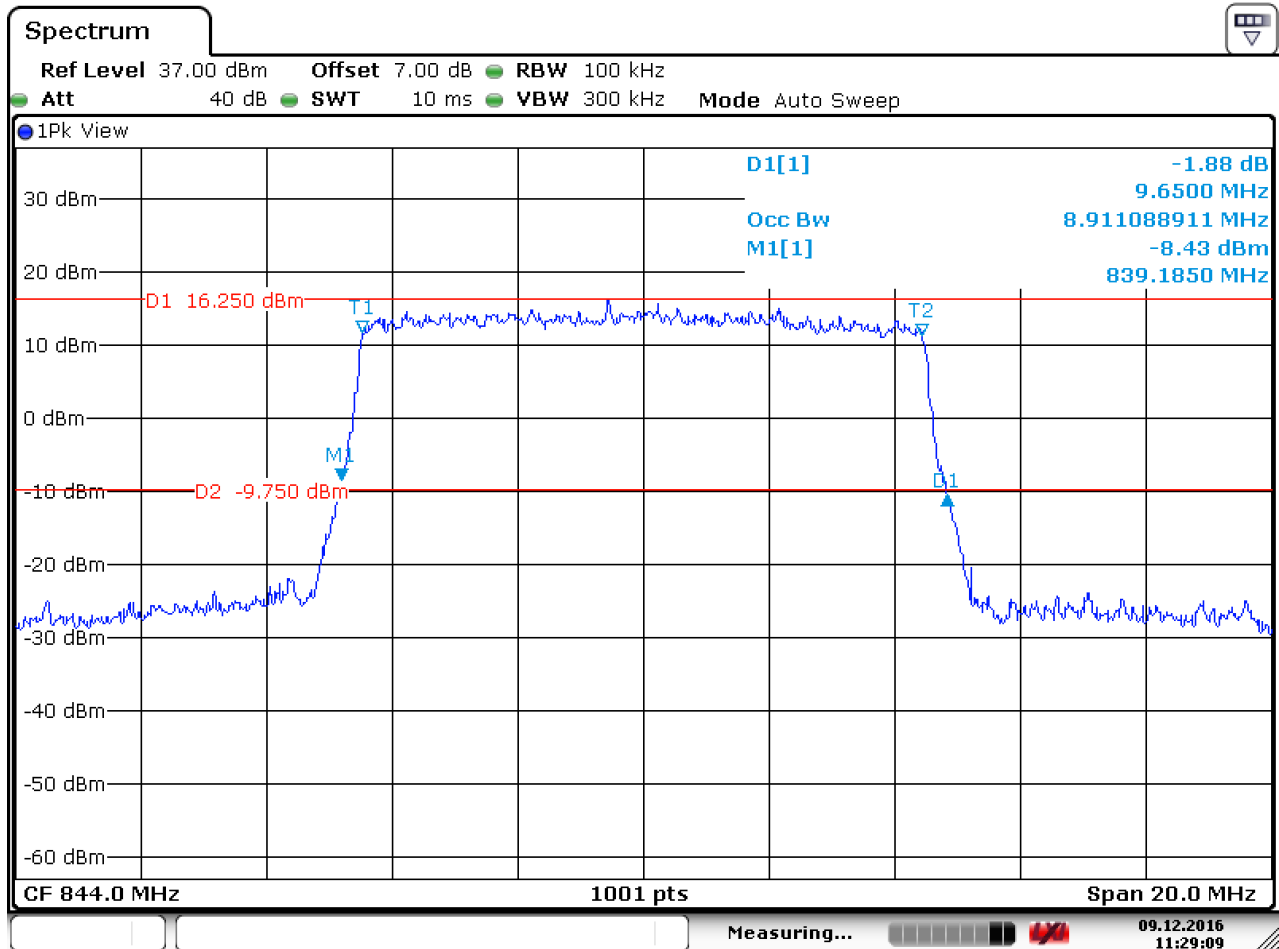


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4.1.1.8.3 Test Channel = HCH



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5 Band Edges Compliance

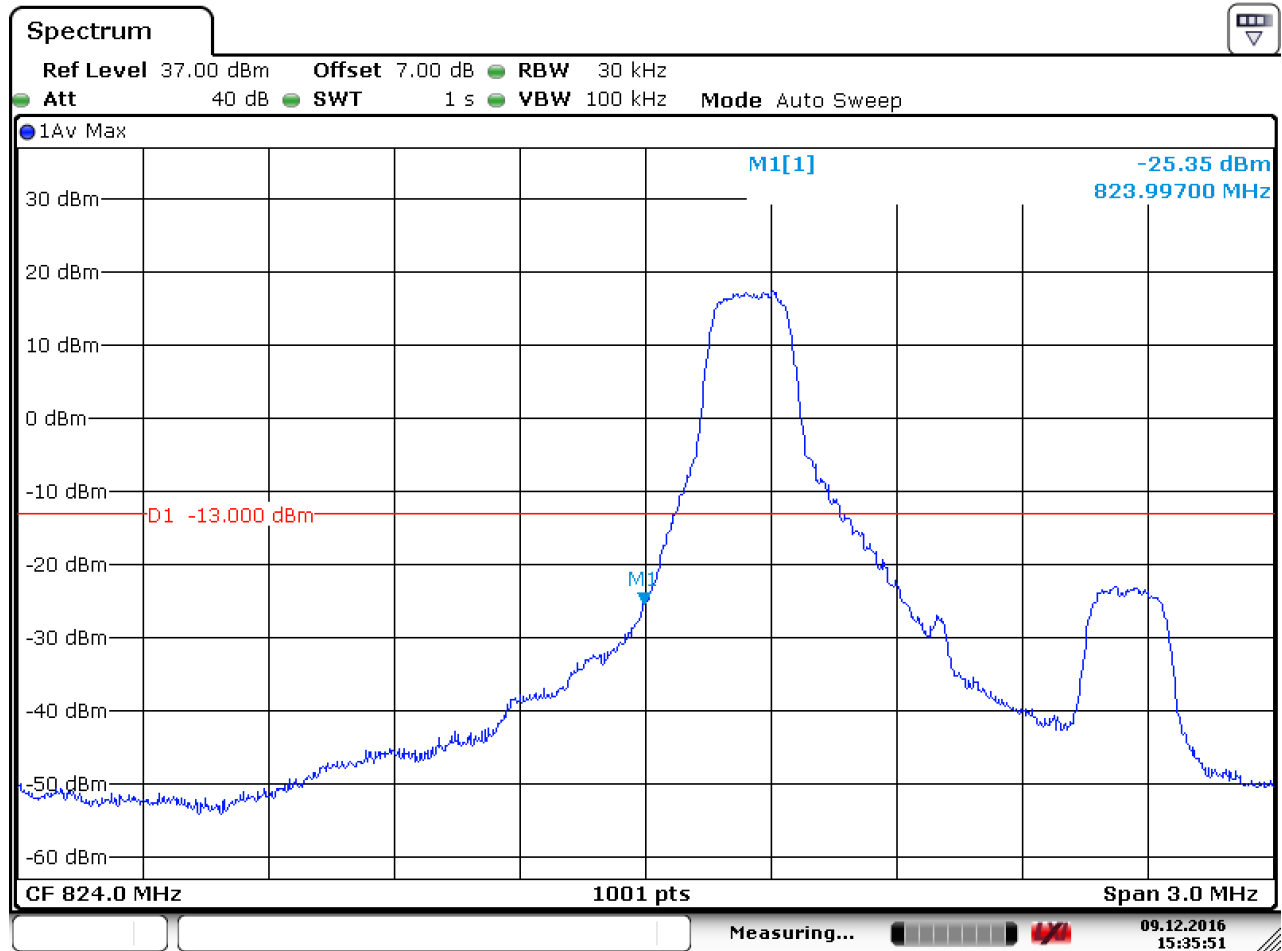
5.1 For LTE

5.1.1 Test Band = LTE band5

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

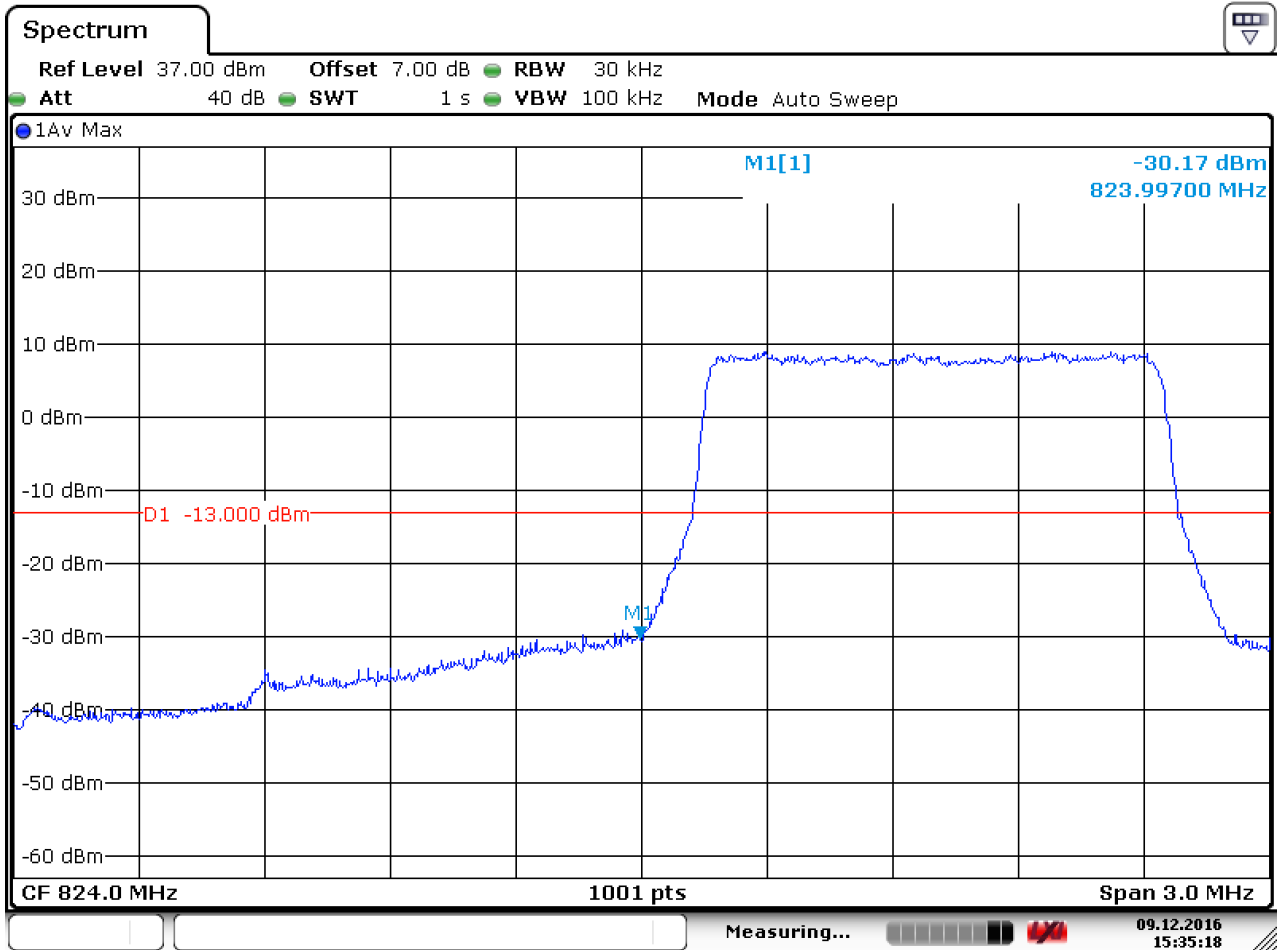
5.1.1.1.1.1 Test RB=1RB



Date: 9.DEC.2016 15:35:51



5.1.1.1.2 Test RB=6RB



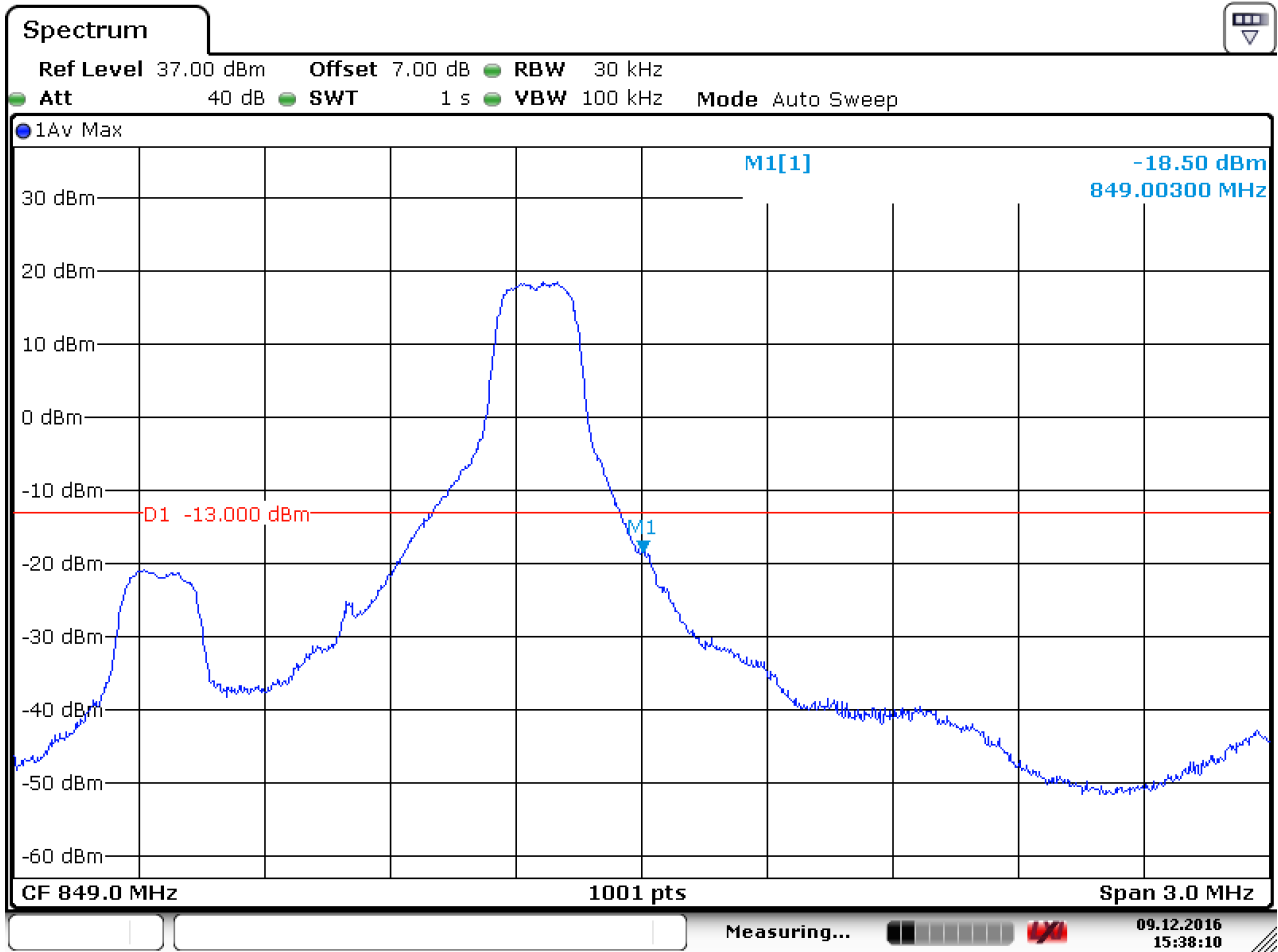
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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

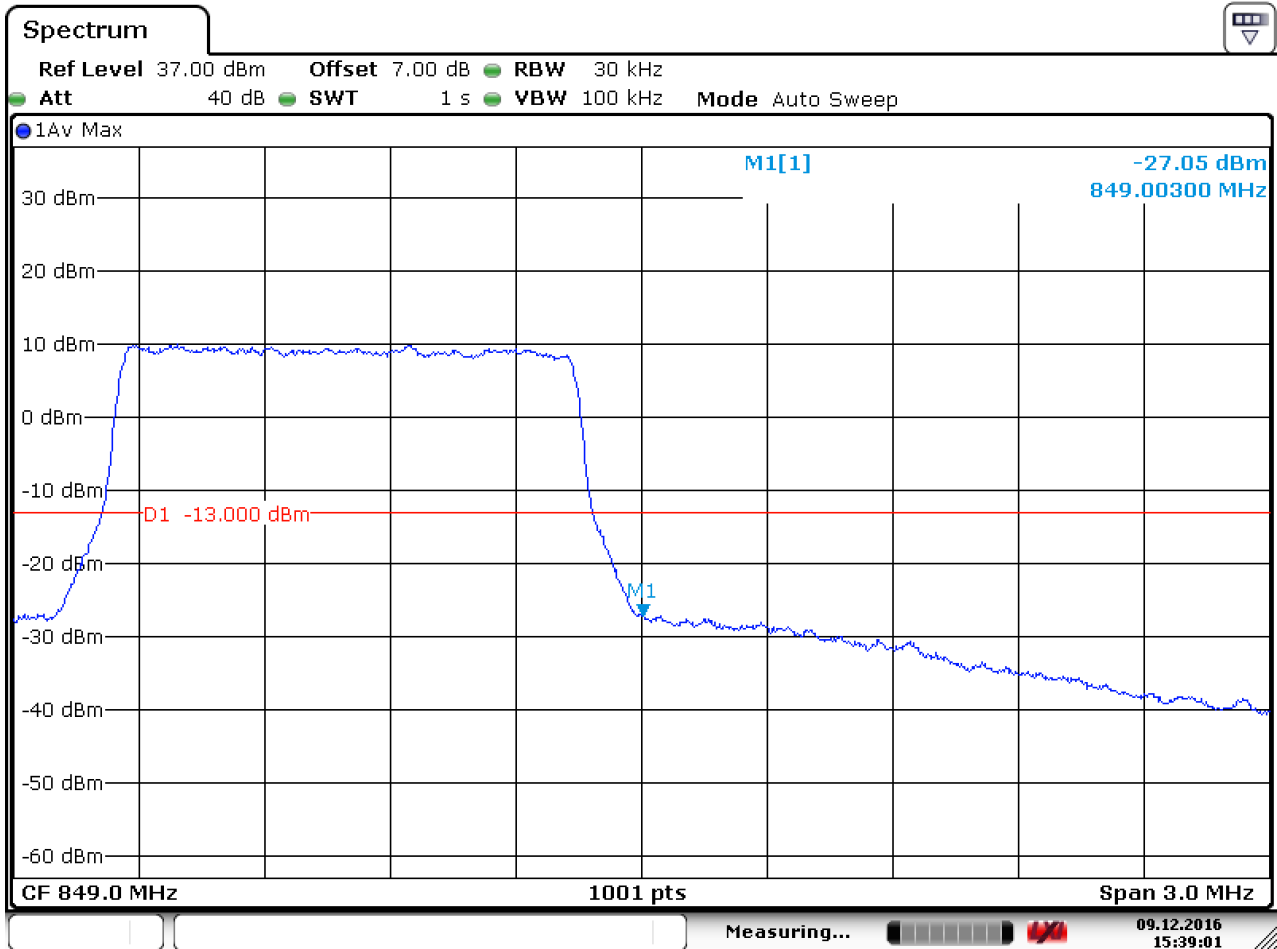


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5.1.1.1.2.2 Test RB=6RB



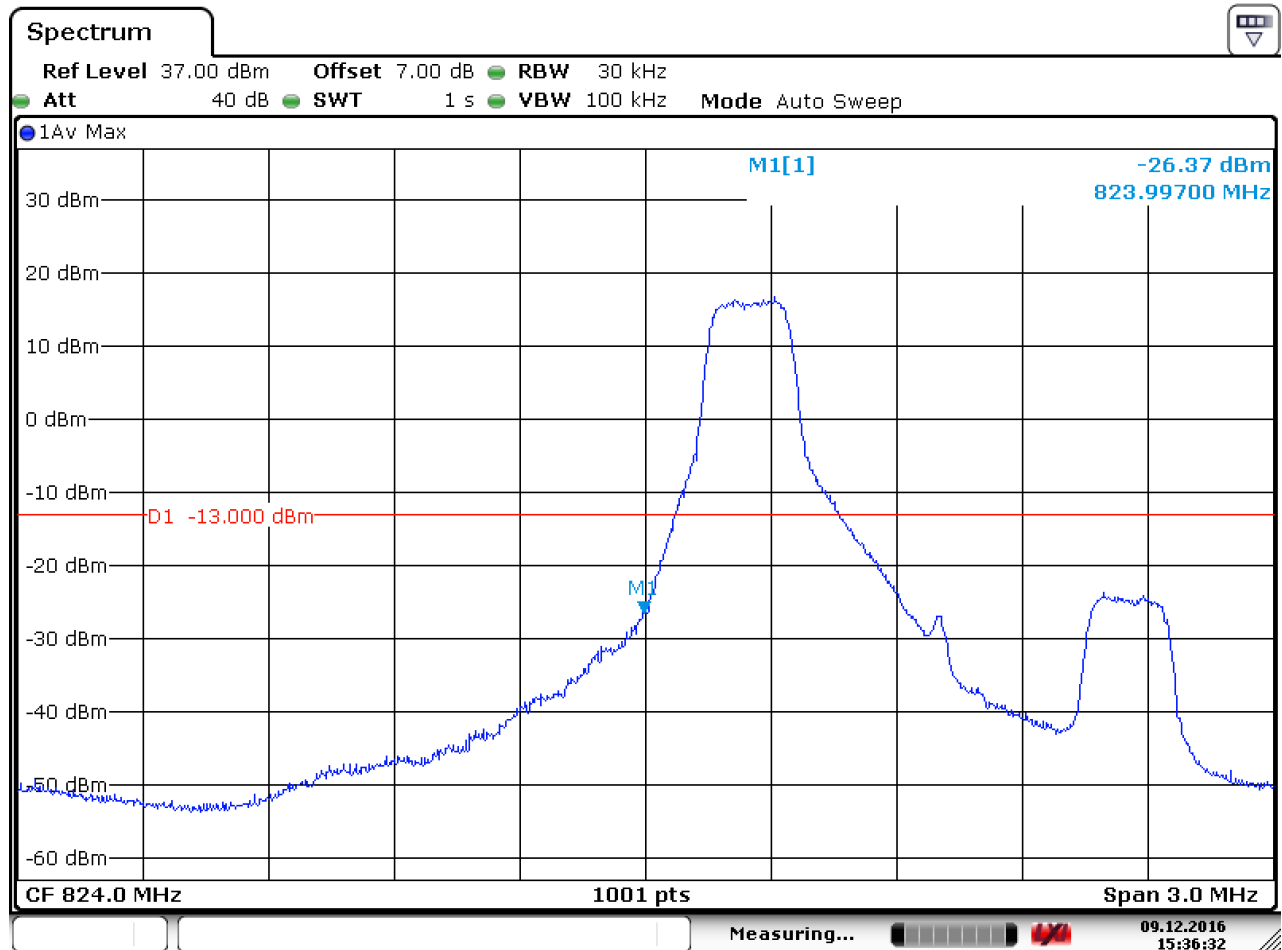
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5.1.1.2 Test Mode = LTE/TM2 1.4MHz
5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

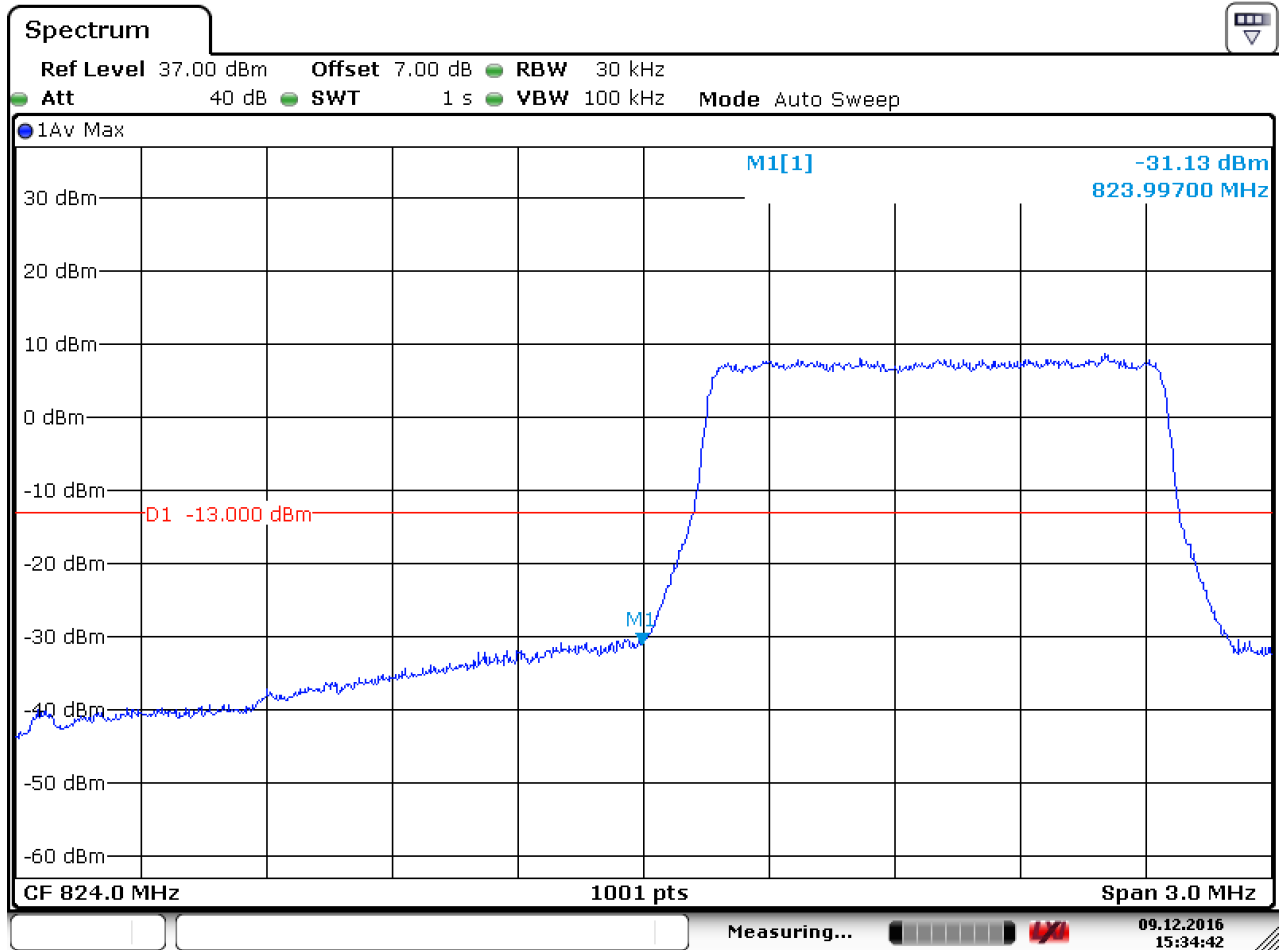


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5.1.1.2.1.2 Test RB=6RB



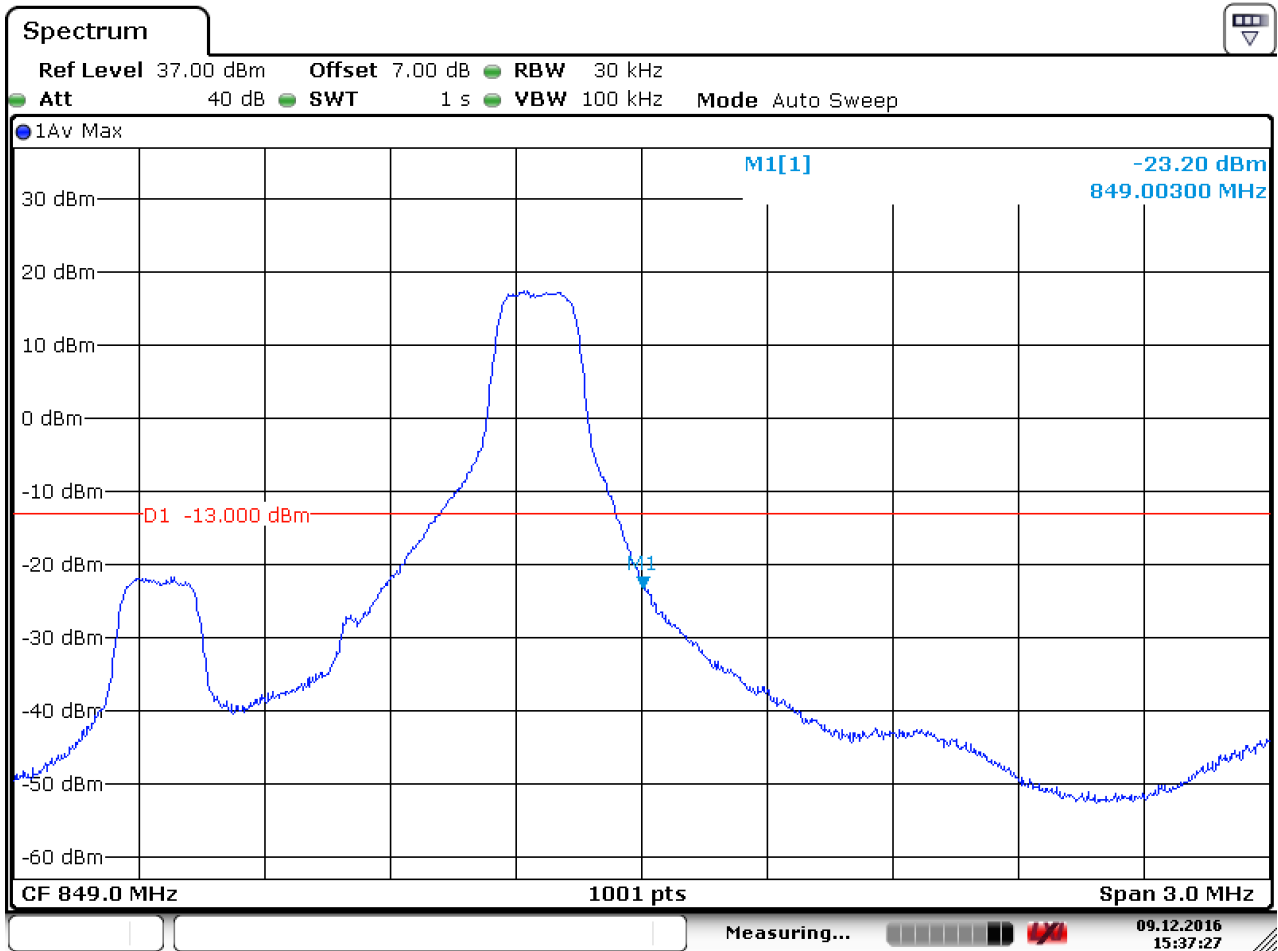
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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

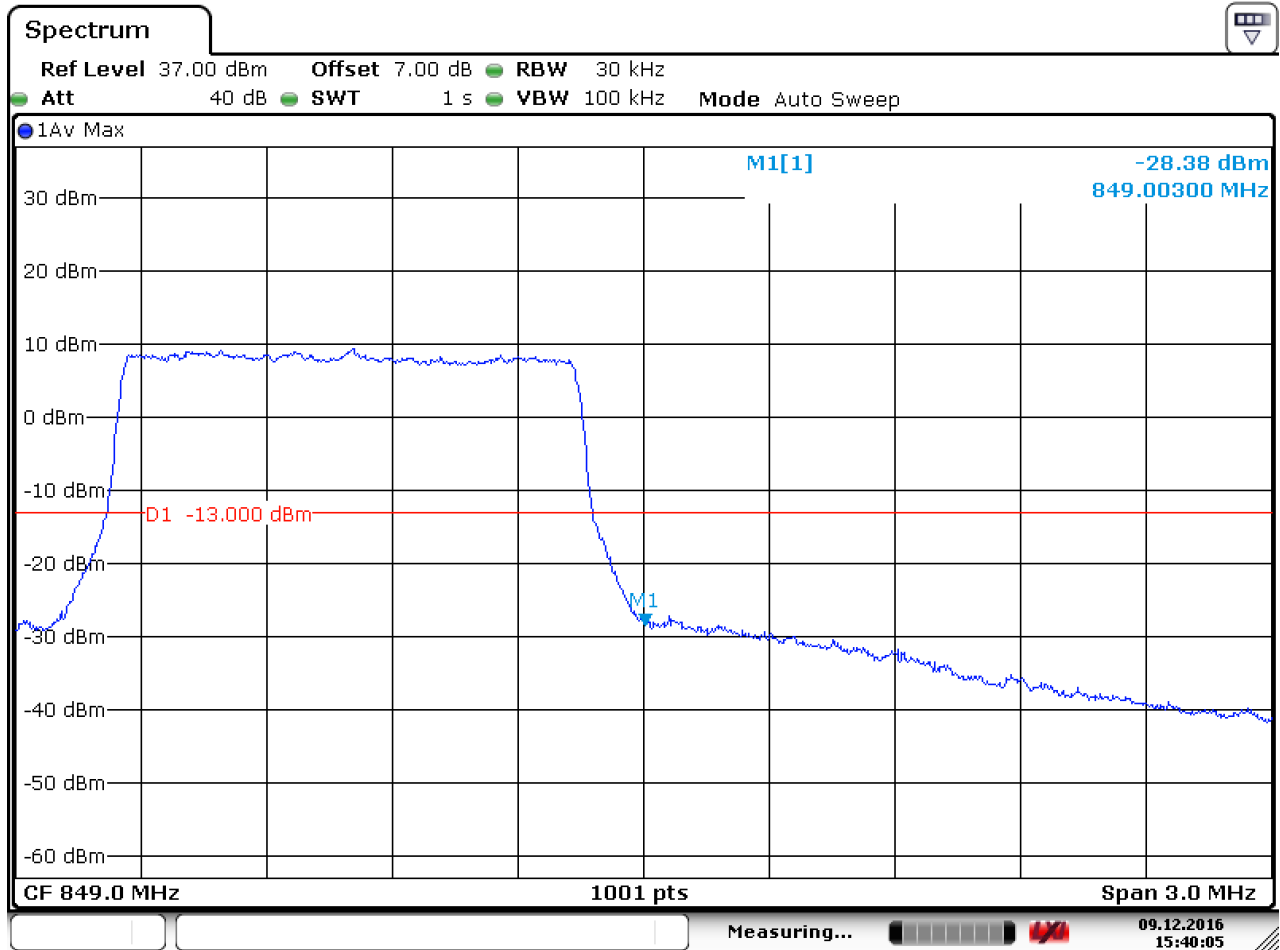


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5.1.1.2.2.2 Test RB=6RB



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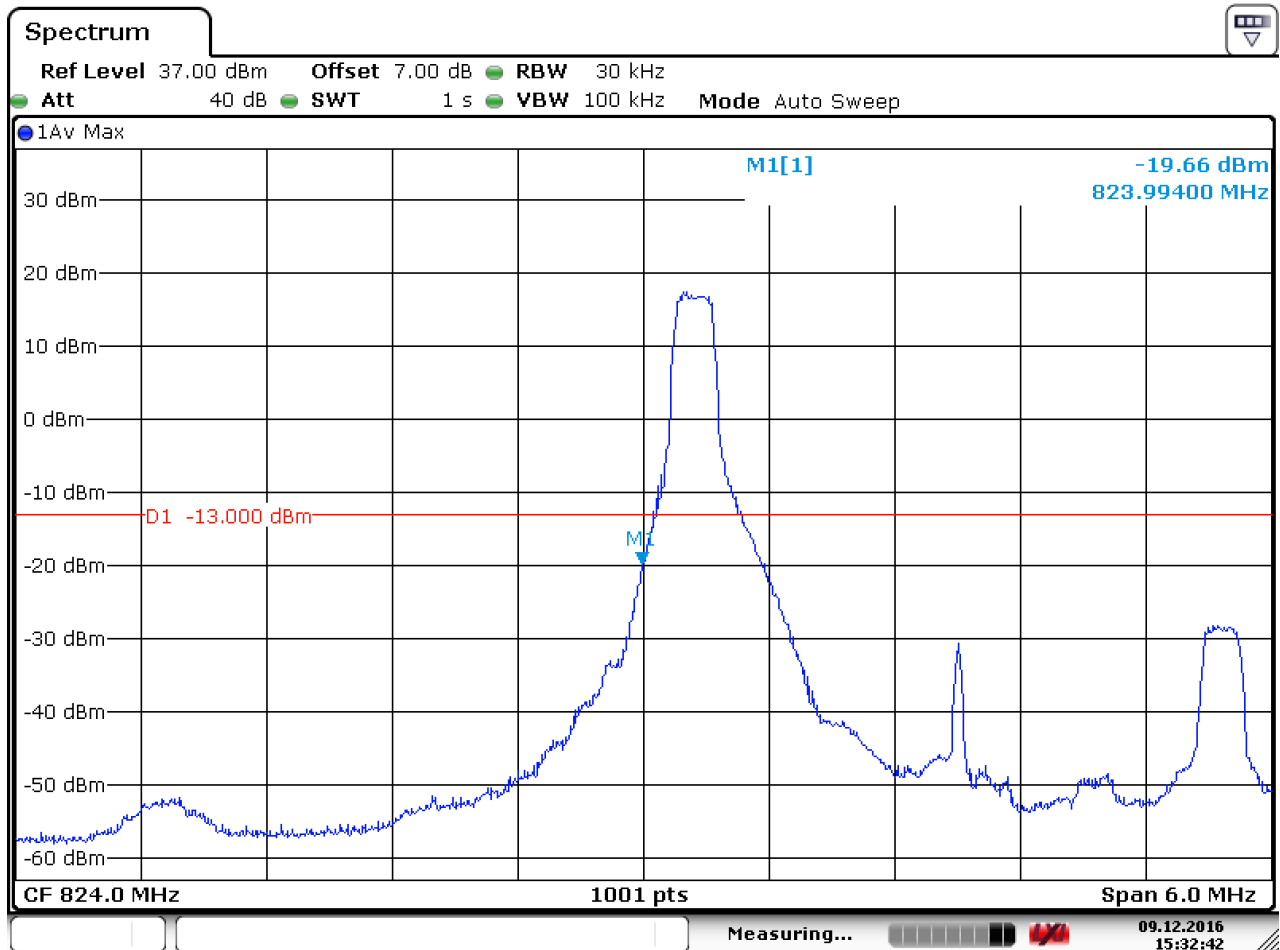
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5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

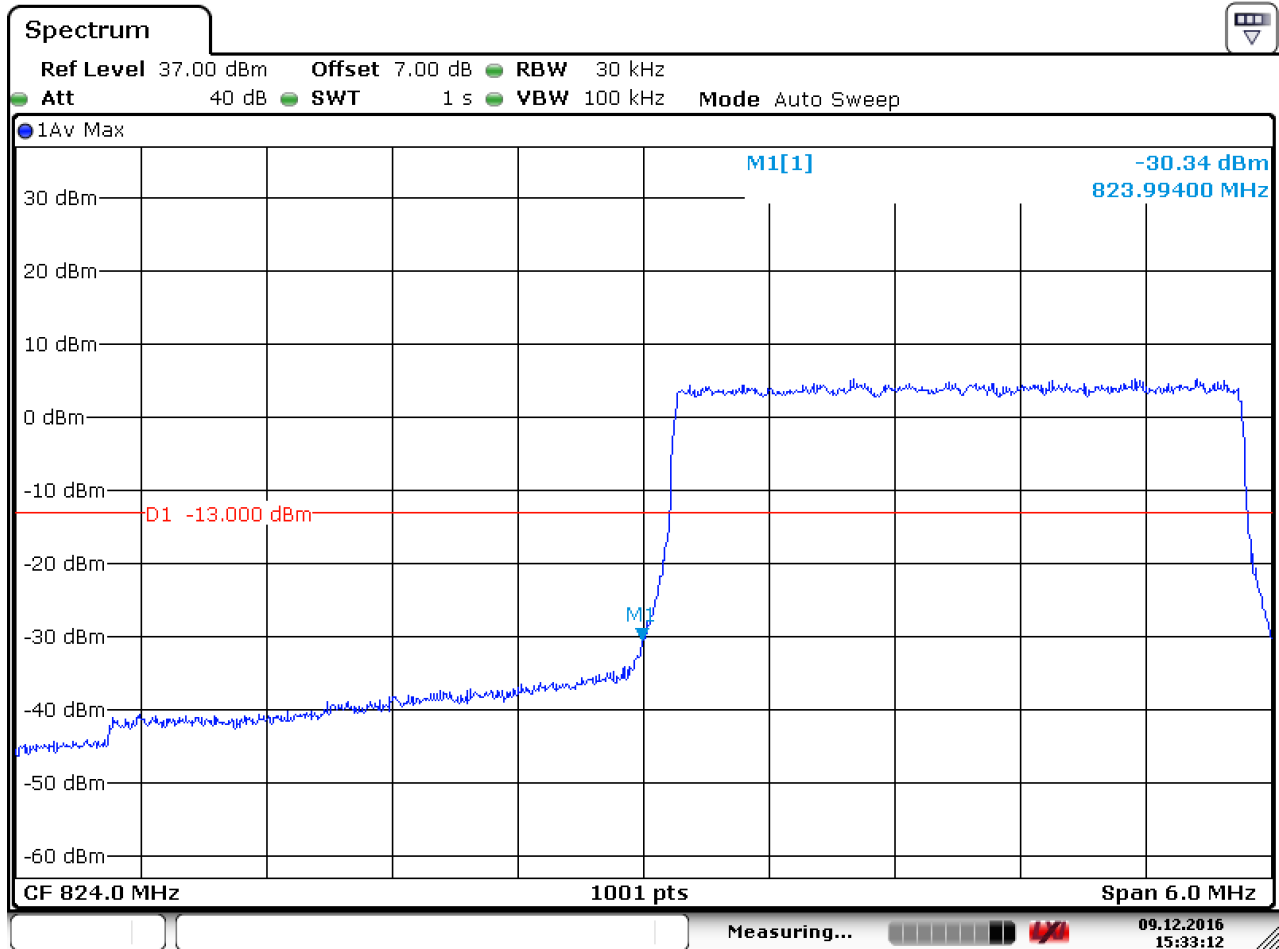


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5.1.1.3.1.2 Test RB=15RB



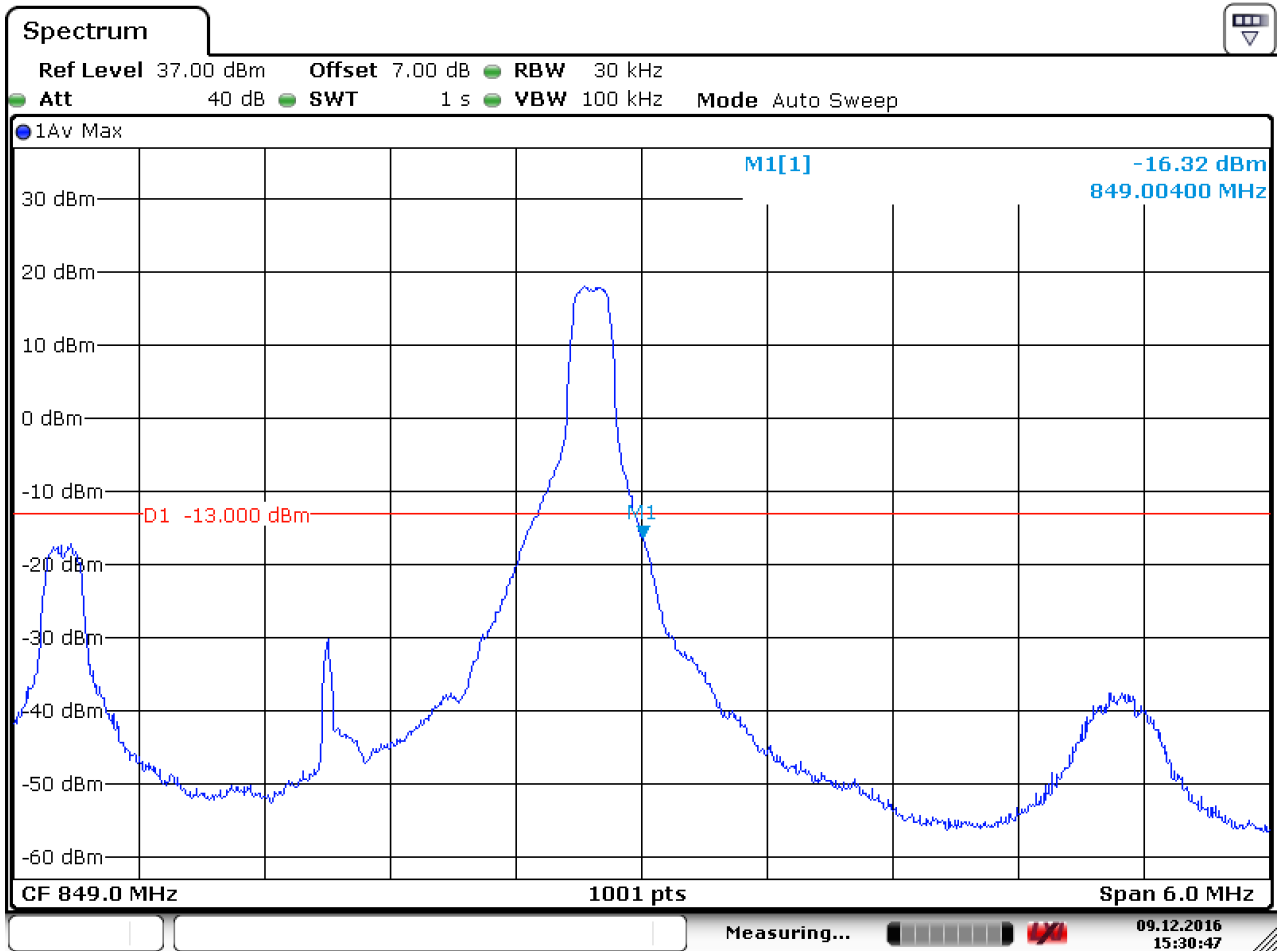
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

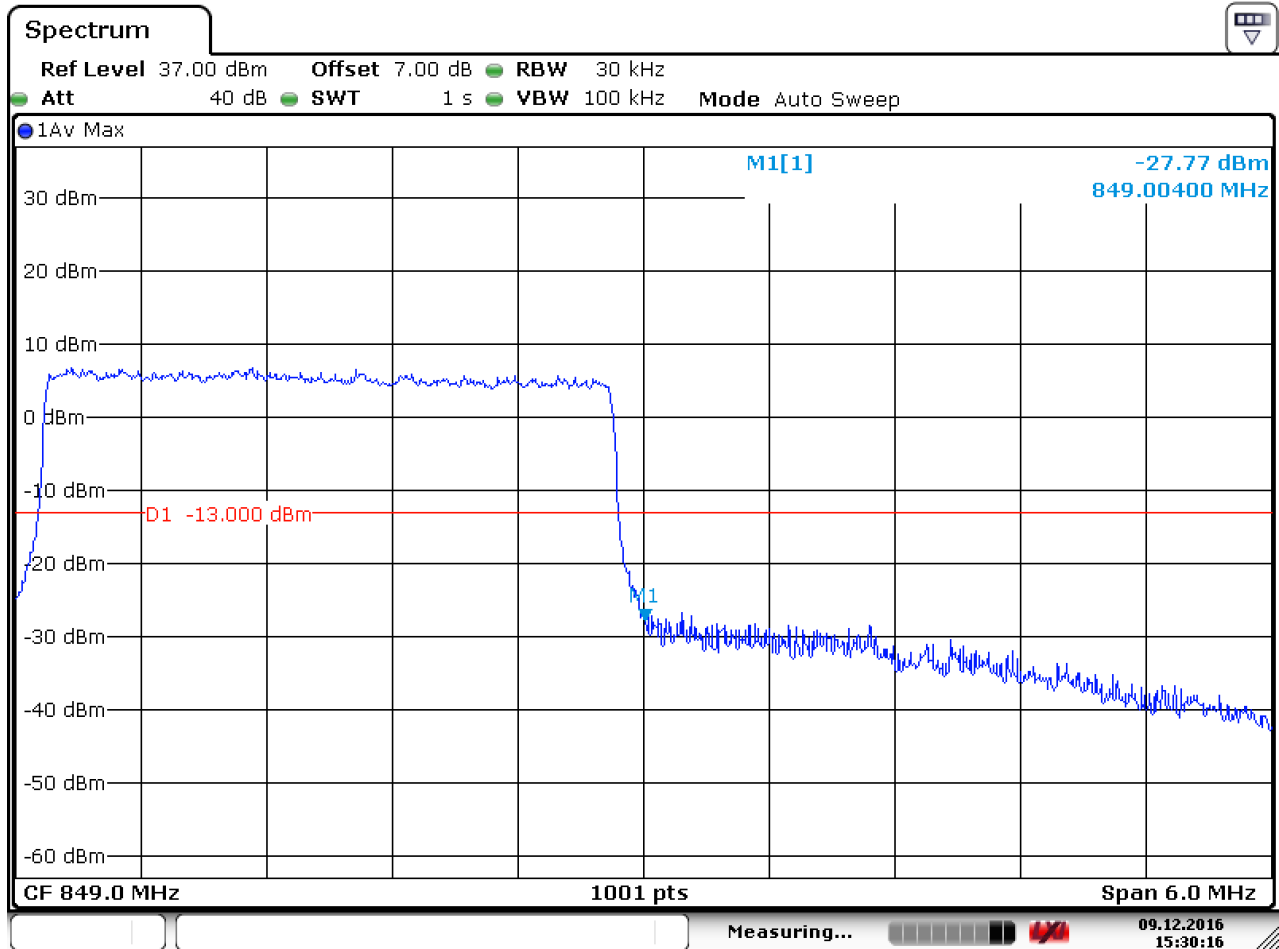


Date: 9. DEC. 2016 15:30:48

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5.1.1.3.2.2 Test RB=15RB



Date: 9. DEC. 2016 15:30:16

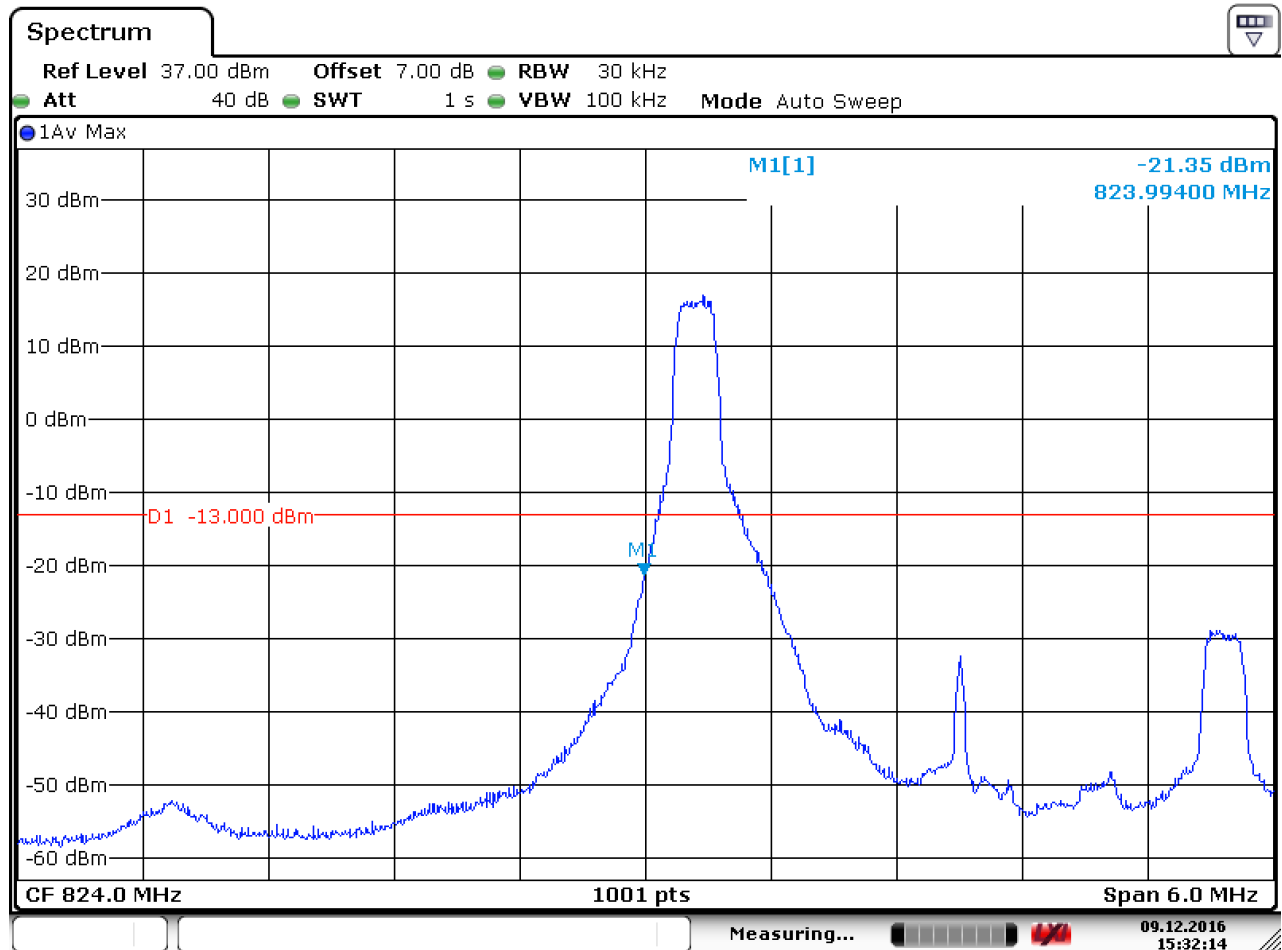
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5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

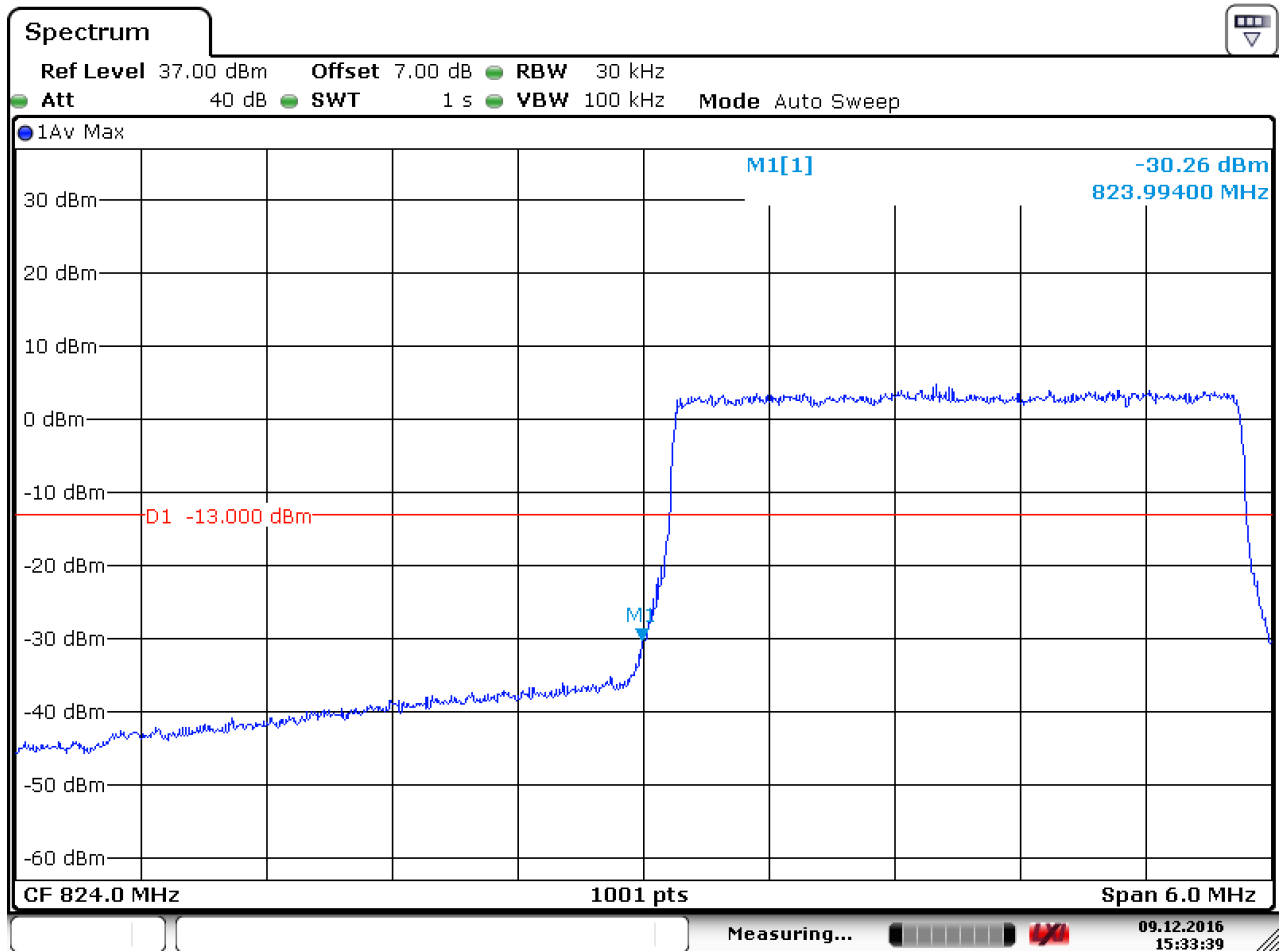


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5.1.1.4.1.2 Test RB=15RB



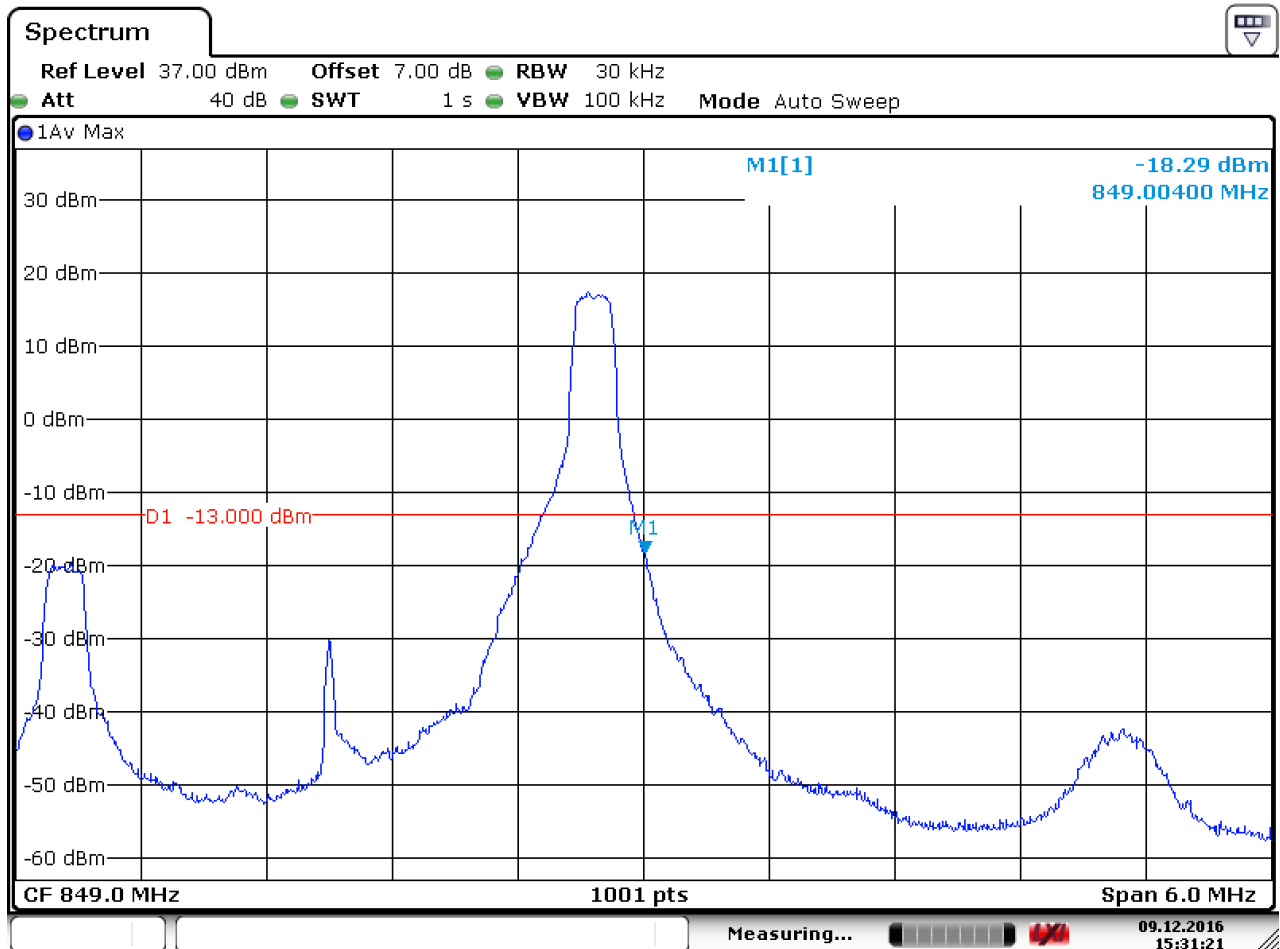
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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

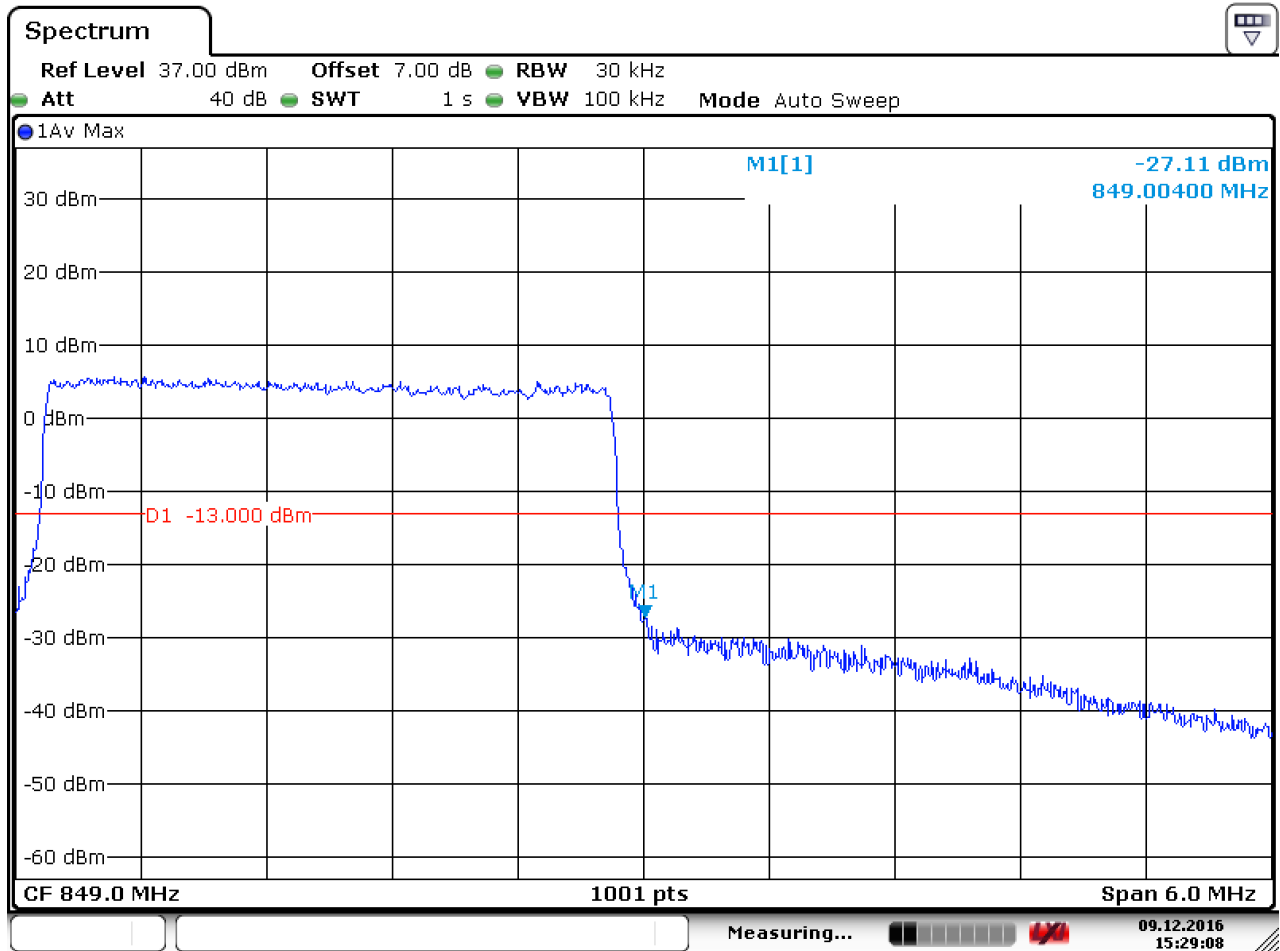


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5.1.1.4.3 Test RB=15RB



Date: 9.DEC.2016 15:29:09

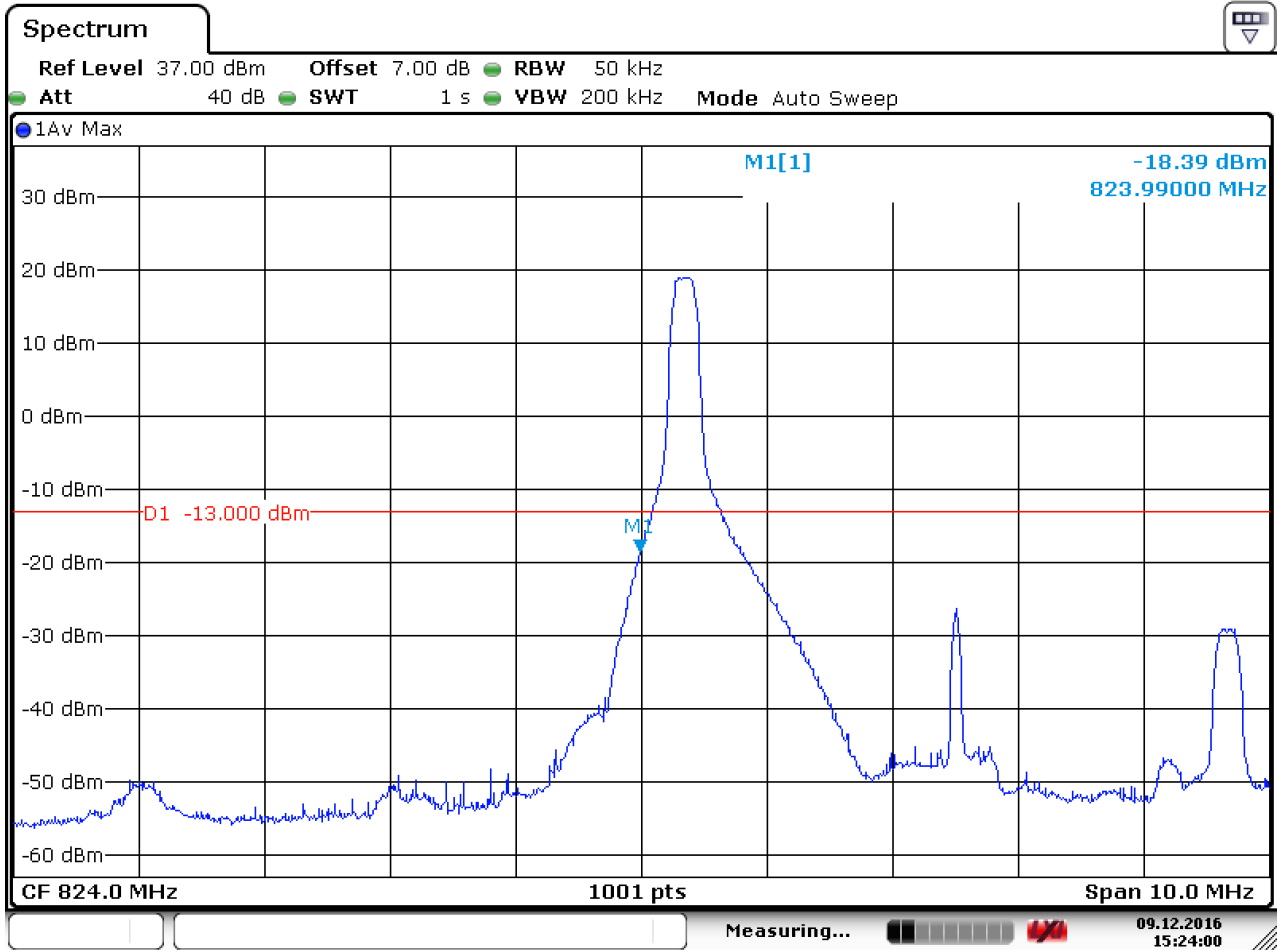
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

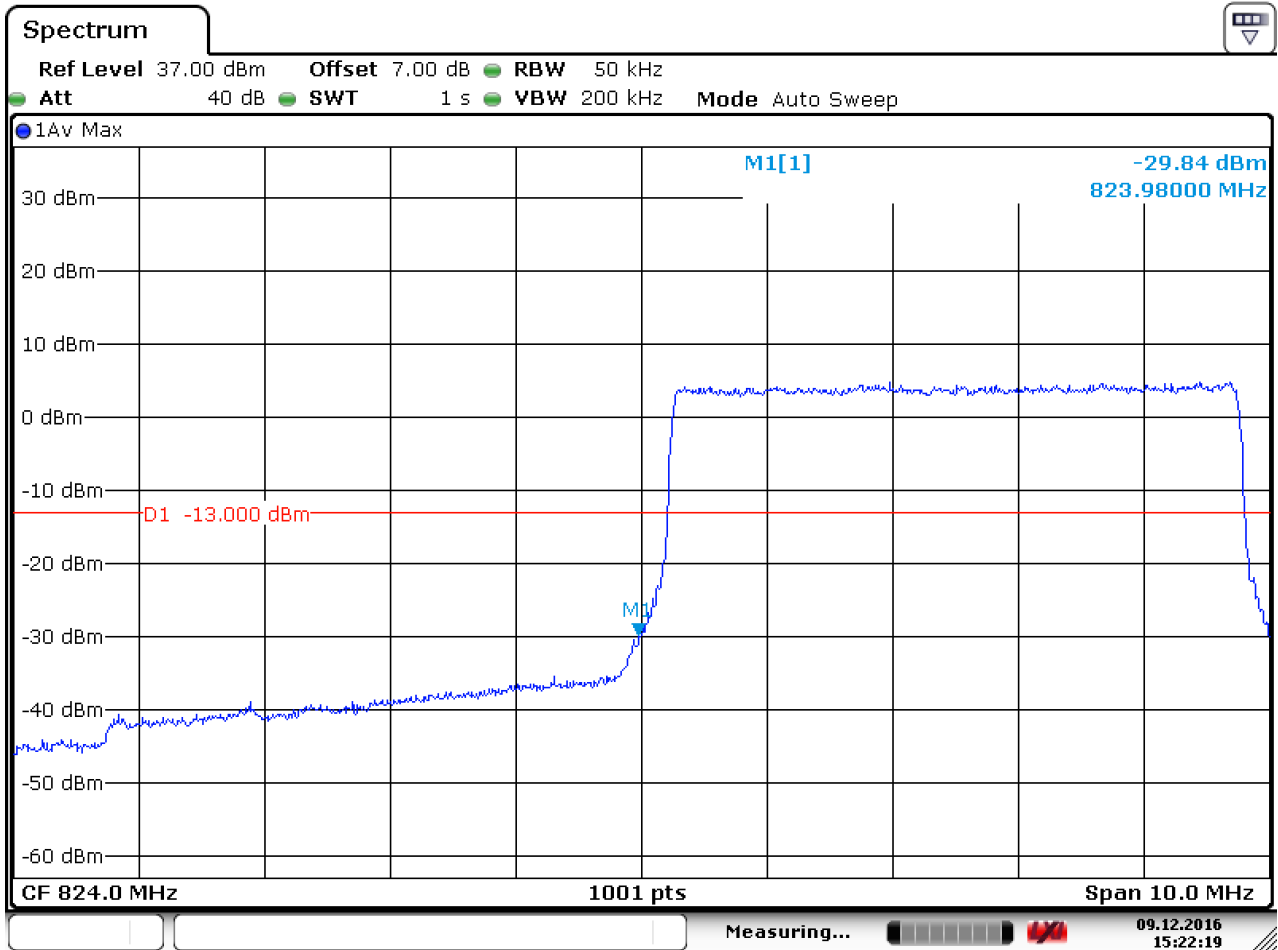


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5.1.1.5.1.2 Test RB=25RB



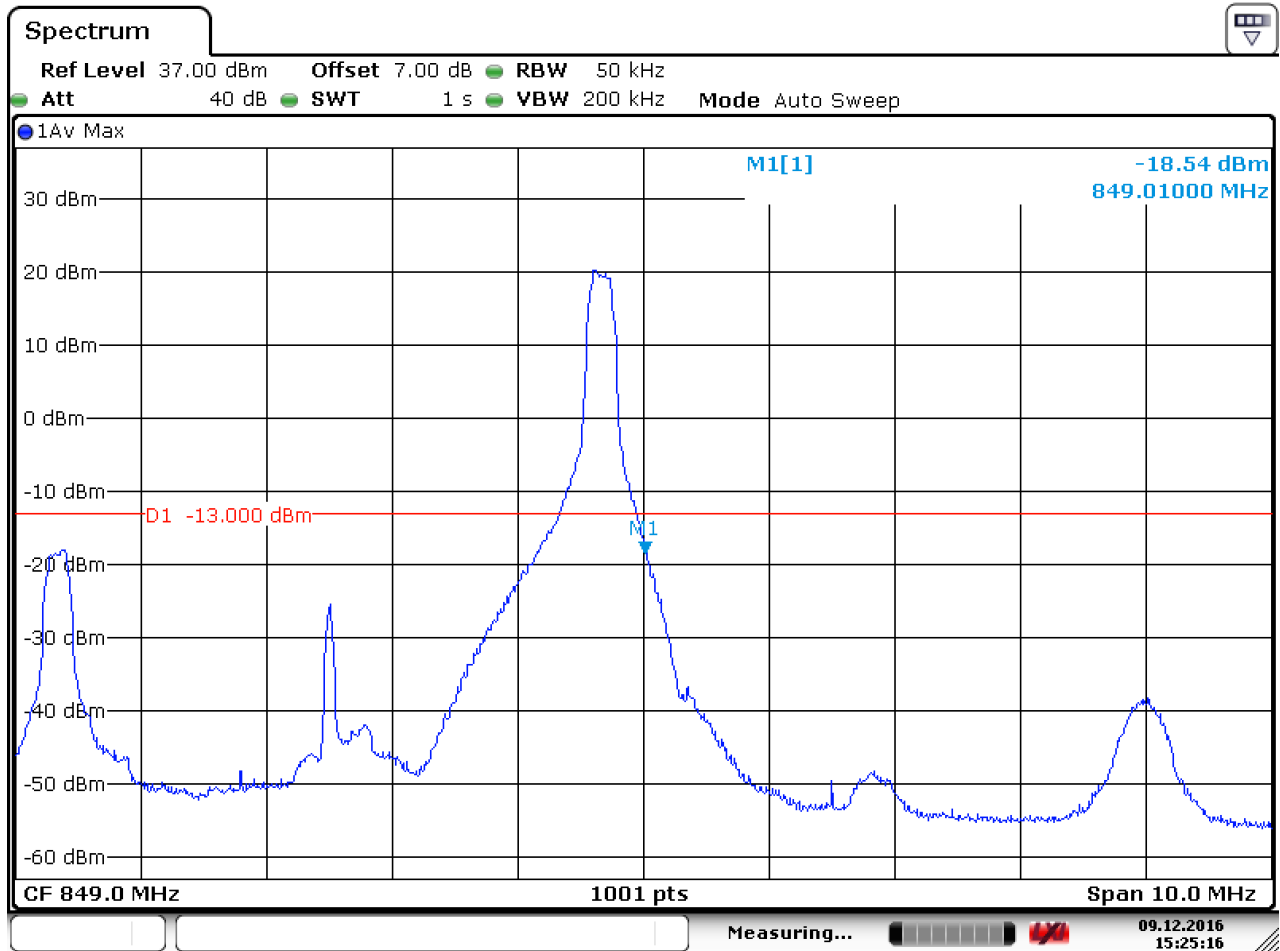
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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

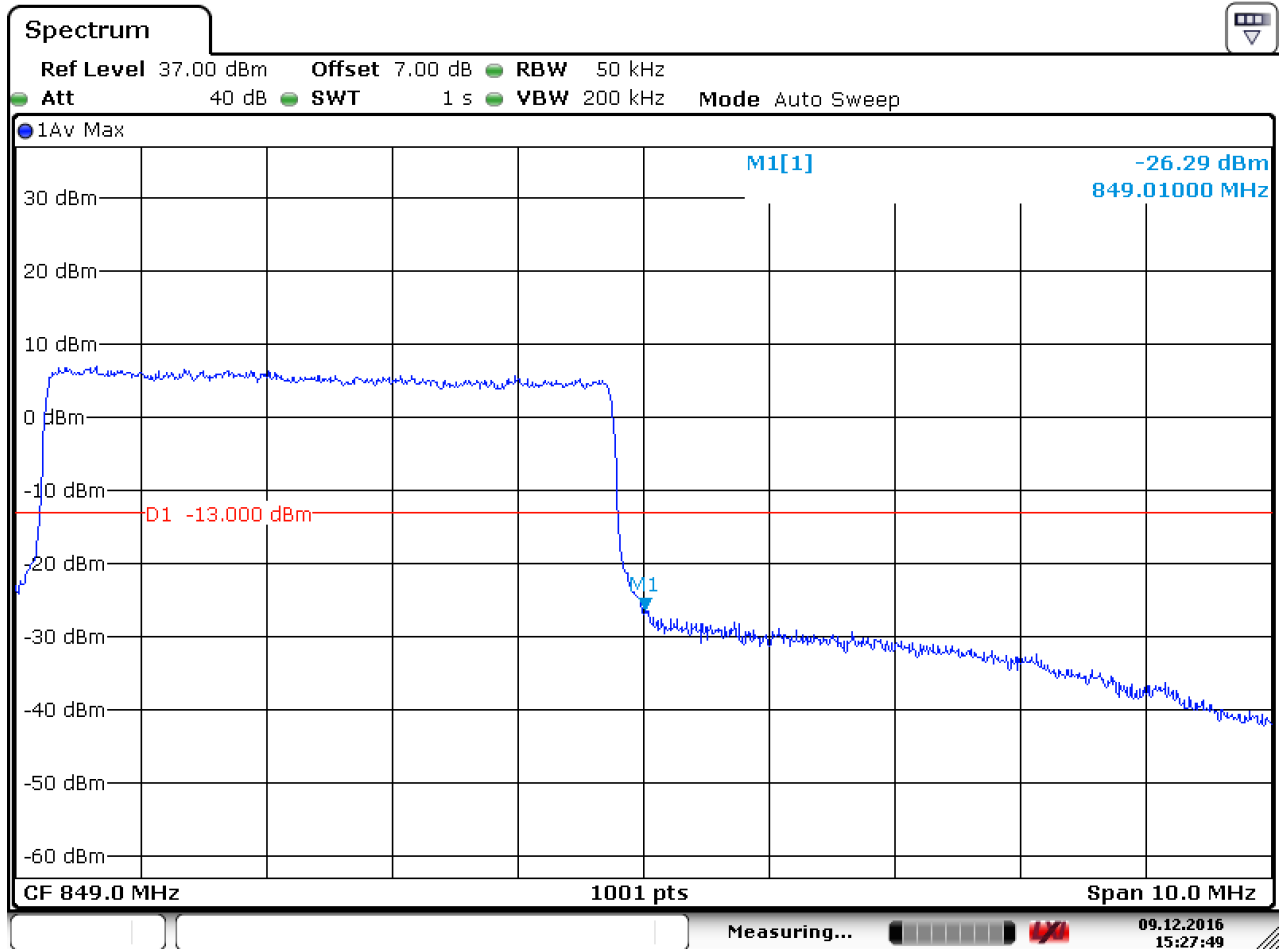


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5.1.1.5.2.2 Test RB=25RB



Date: 9. DEC. 2016 15:27:50

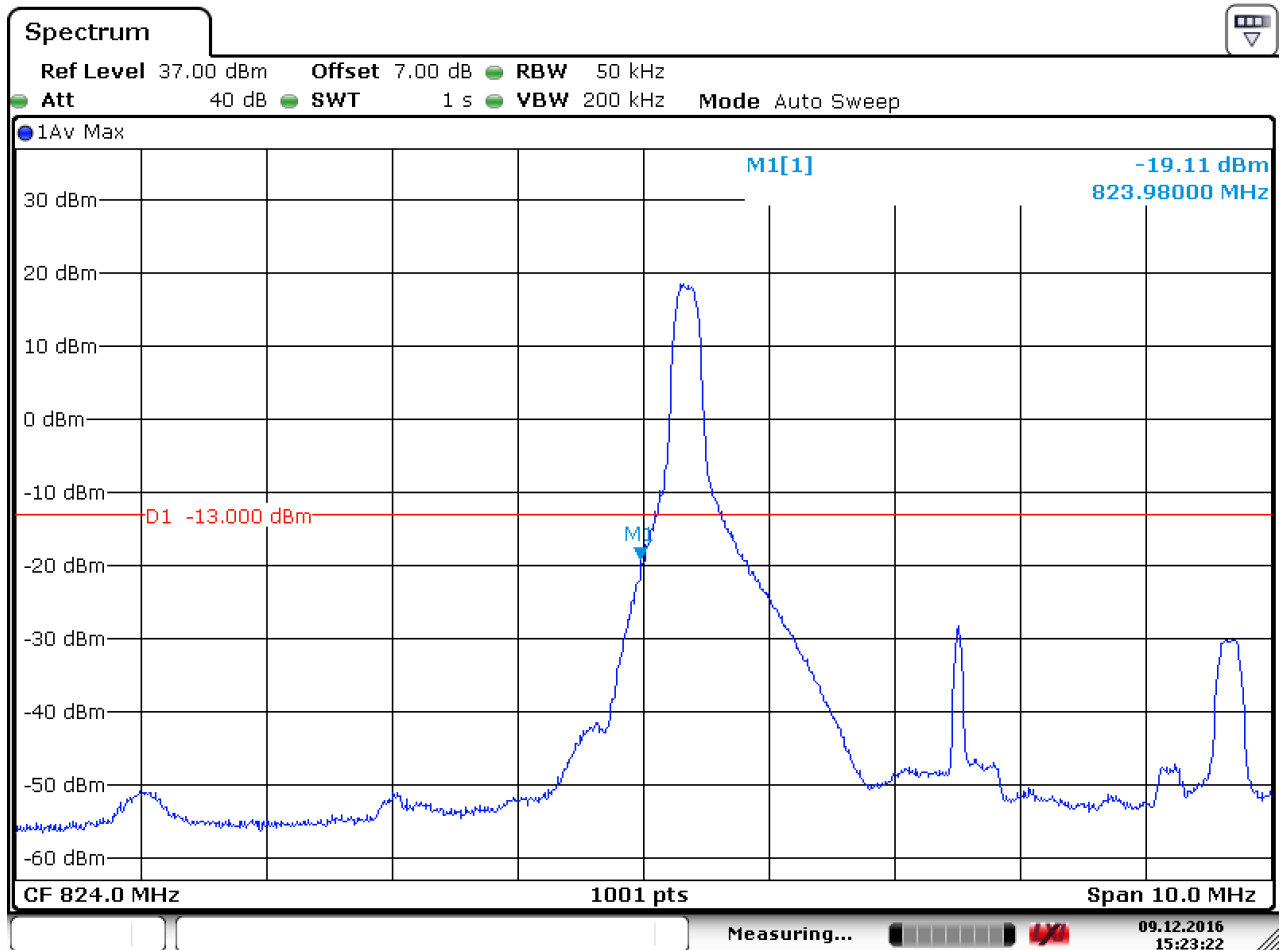
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5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

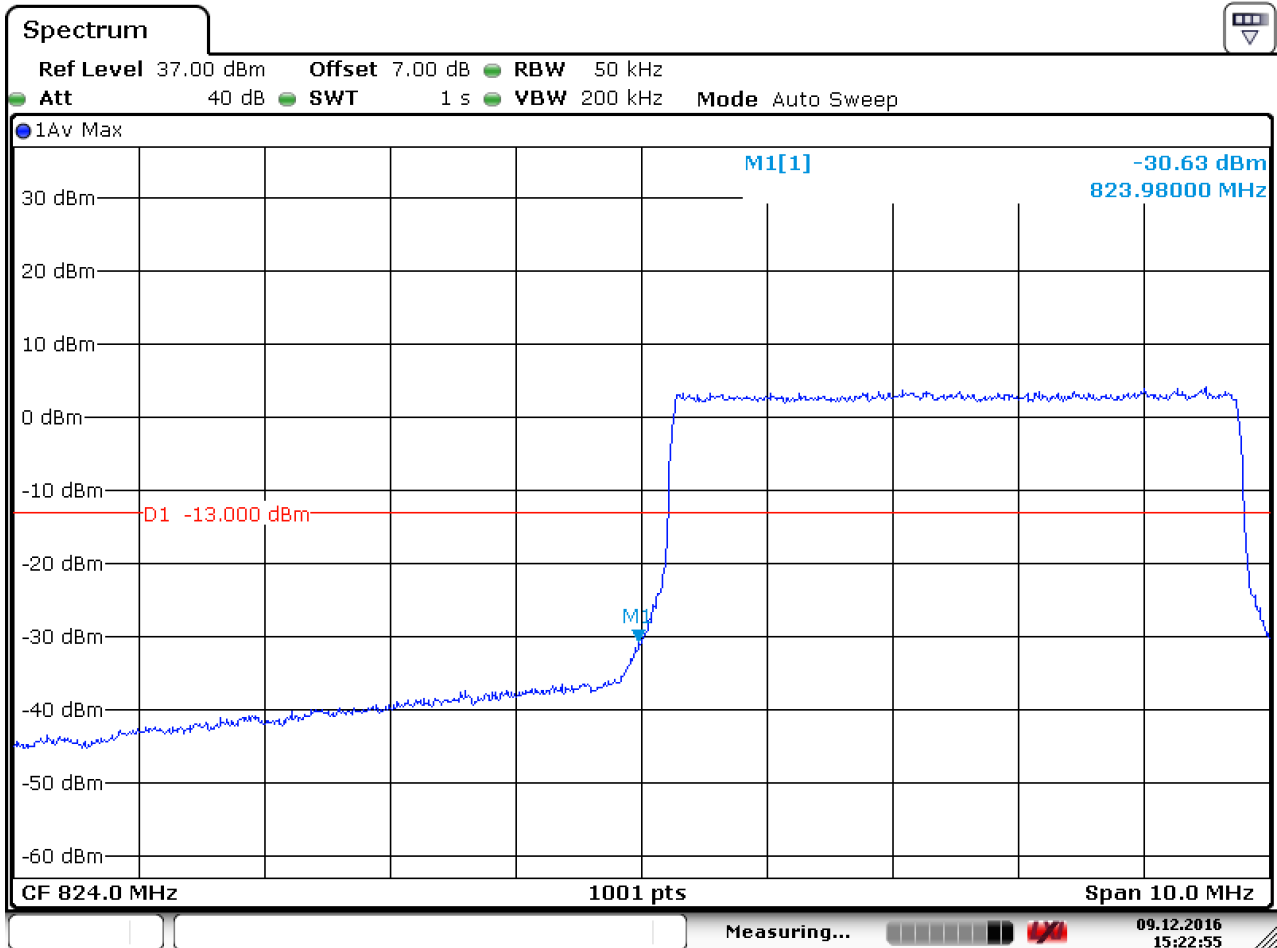


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5.1.1.6.1.2 Test RB=25RB



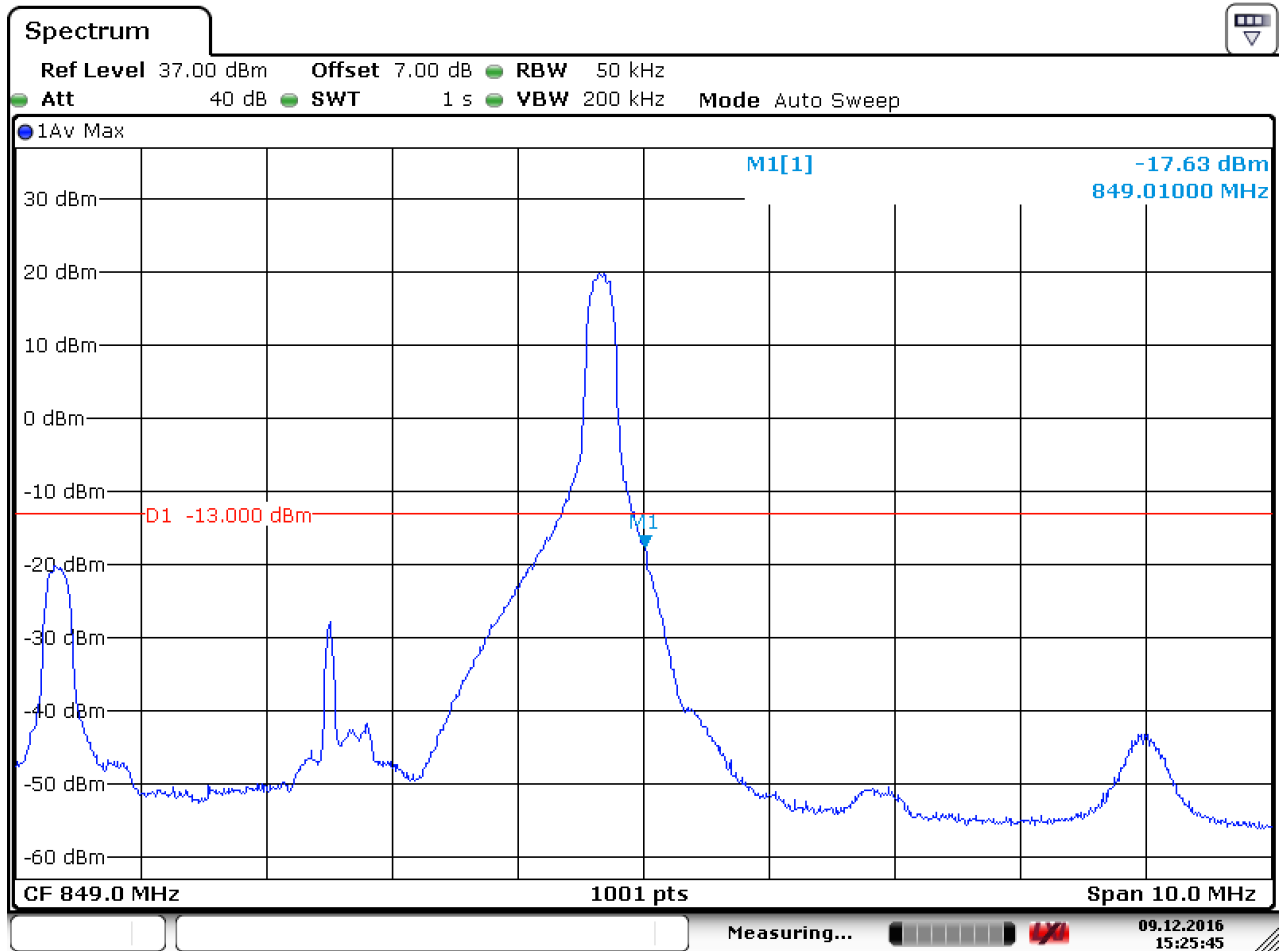
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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB

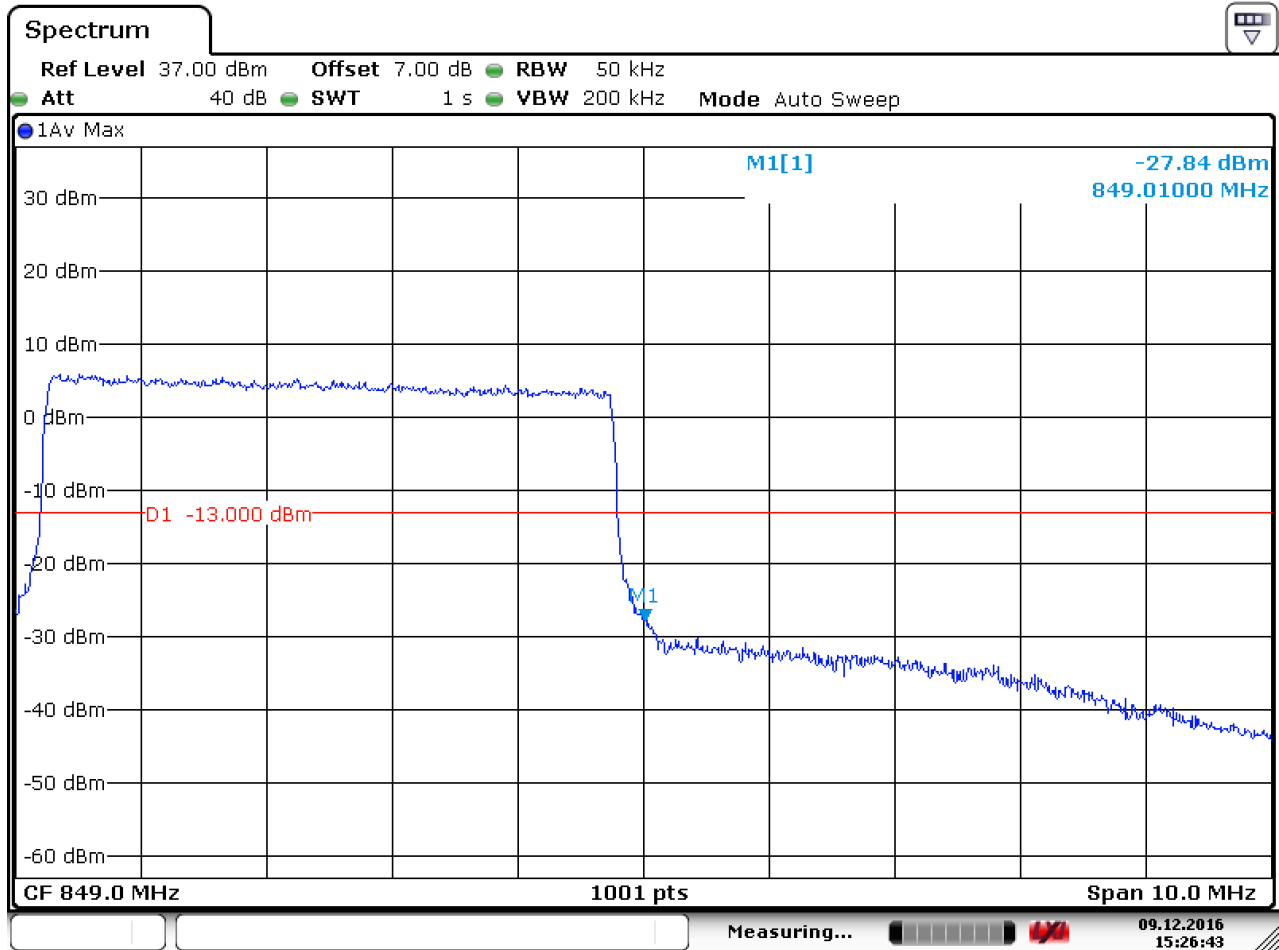


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5.1.1.6.2.2 Test RB=25RB



Date: 9. DEC. 2016 15:26:44

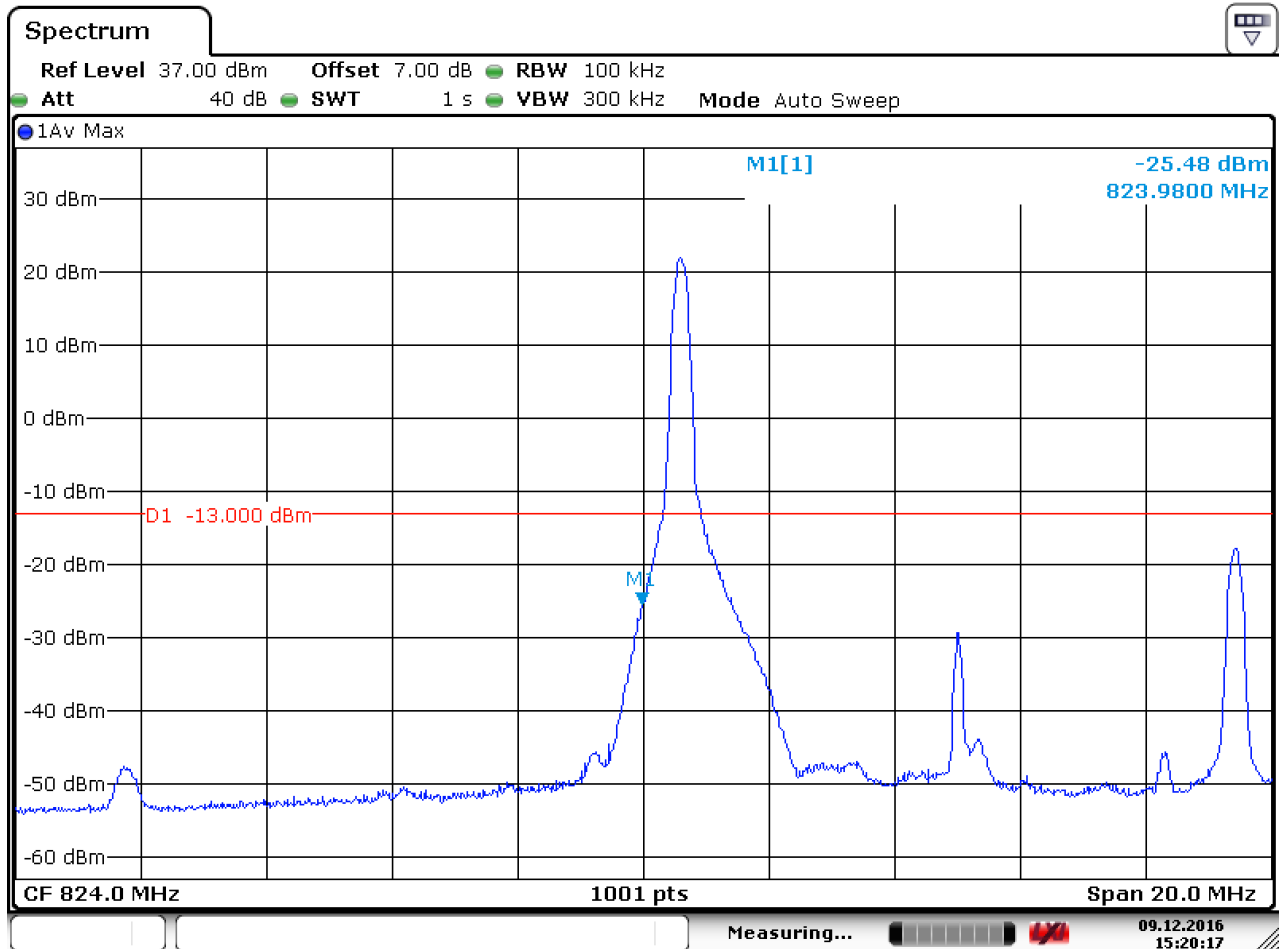
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5.1.1.7 Test Mode = LTE/TM1 10MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

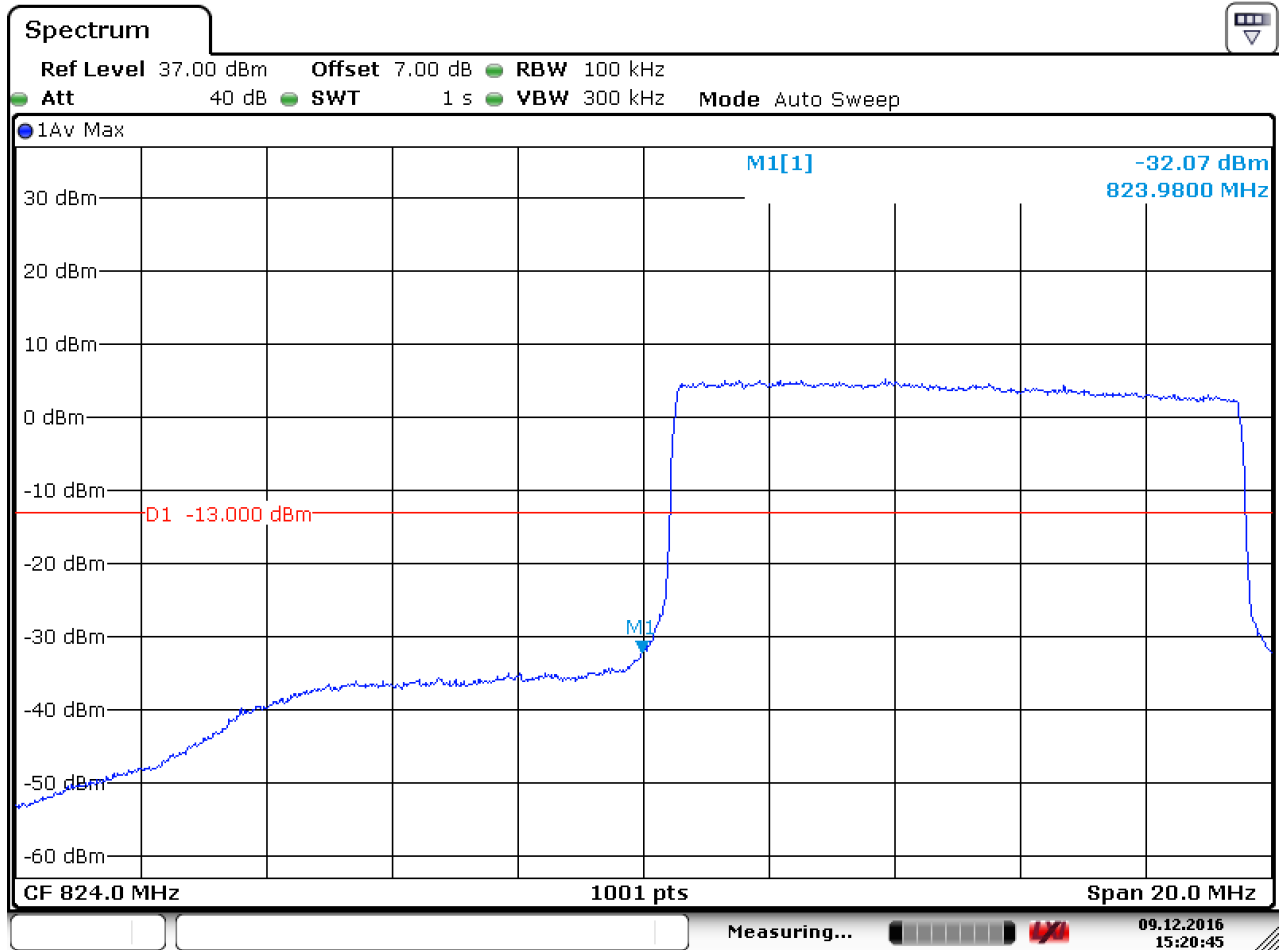


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5.1.1.7.1.2 Test RB=50RB

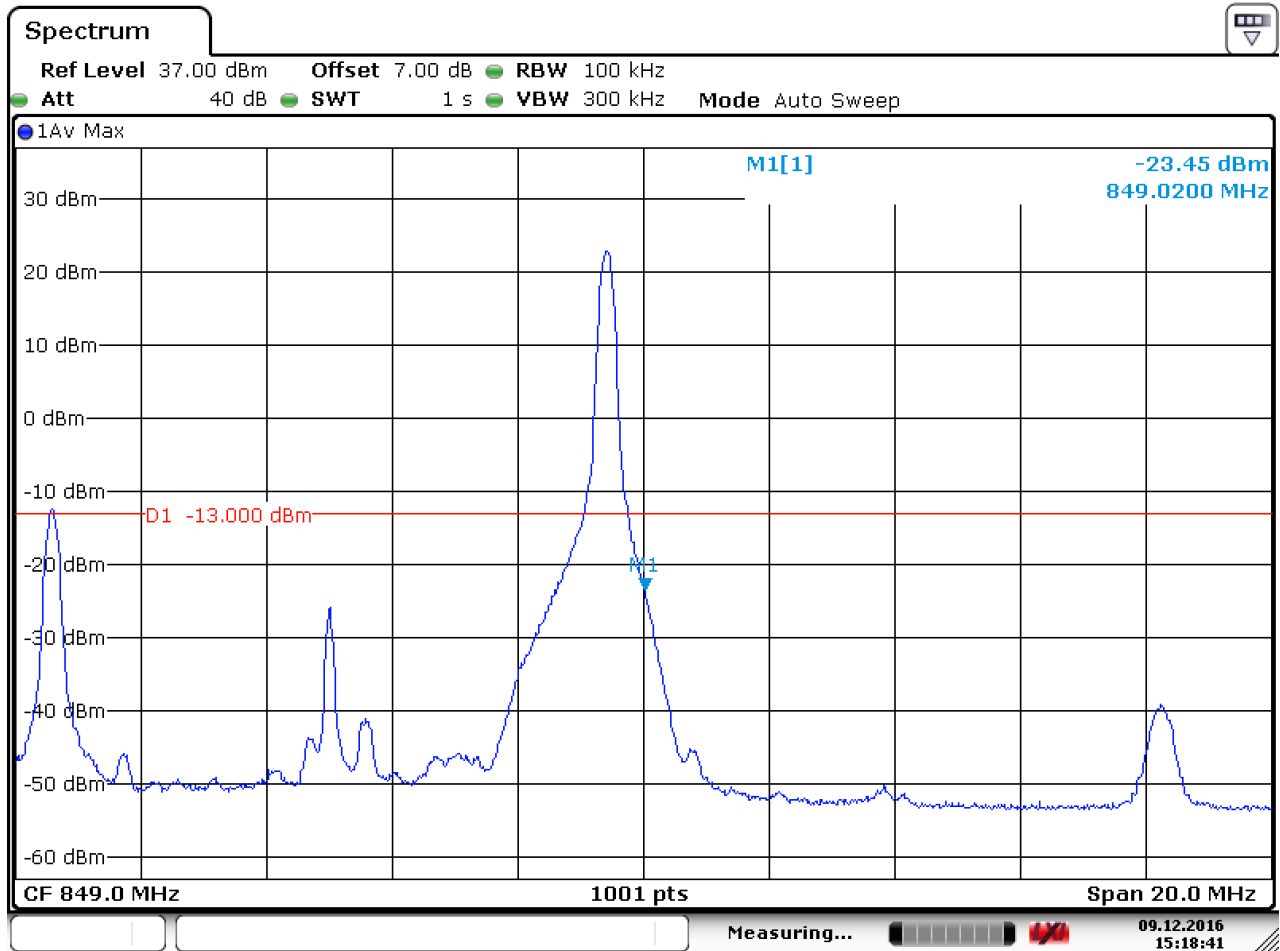


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

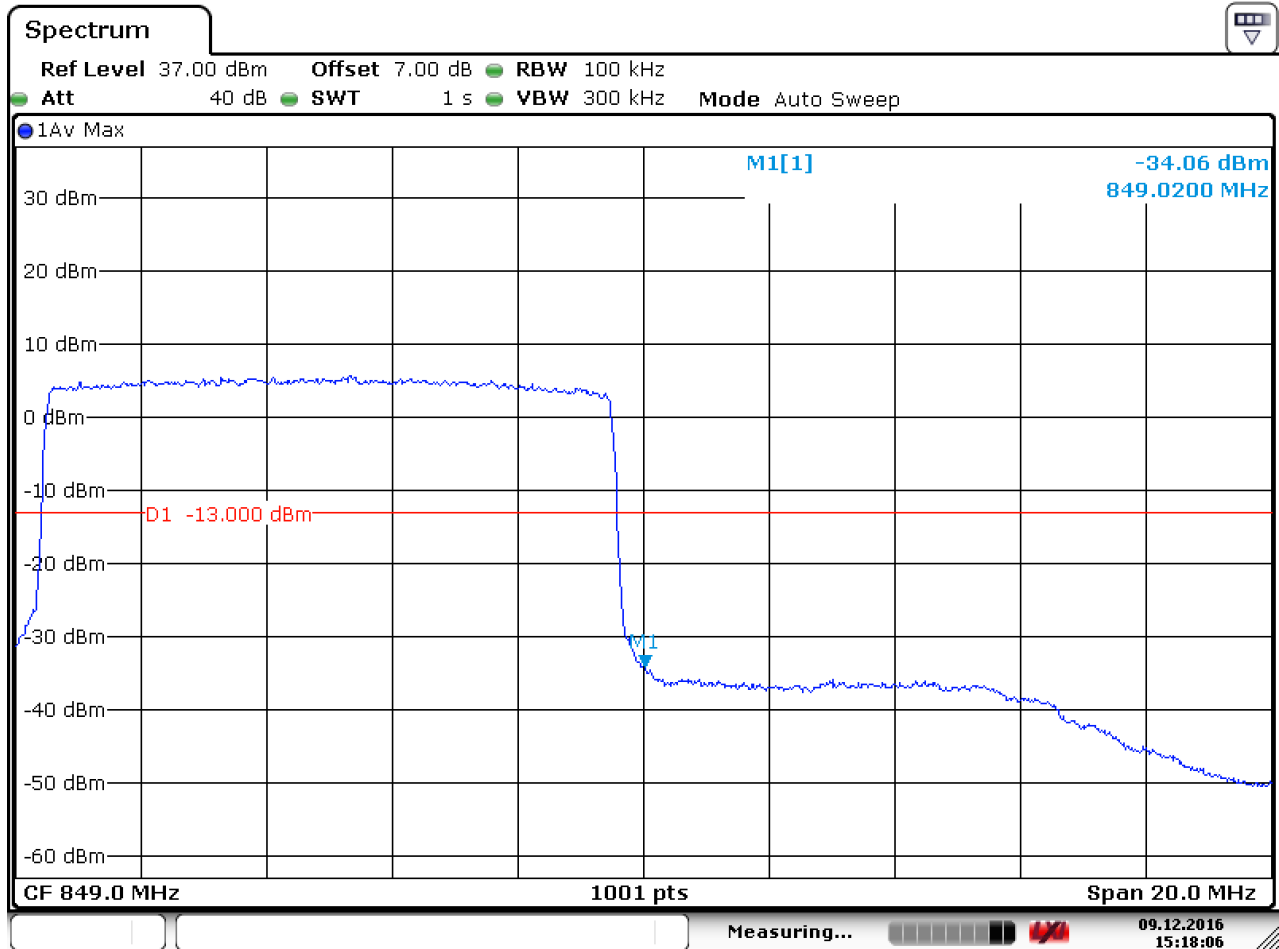


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5.1.1.7.2.2 Test RB=50RB



Date: 9. DEC. 2016 15:18:06

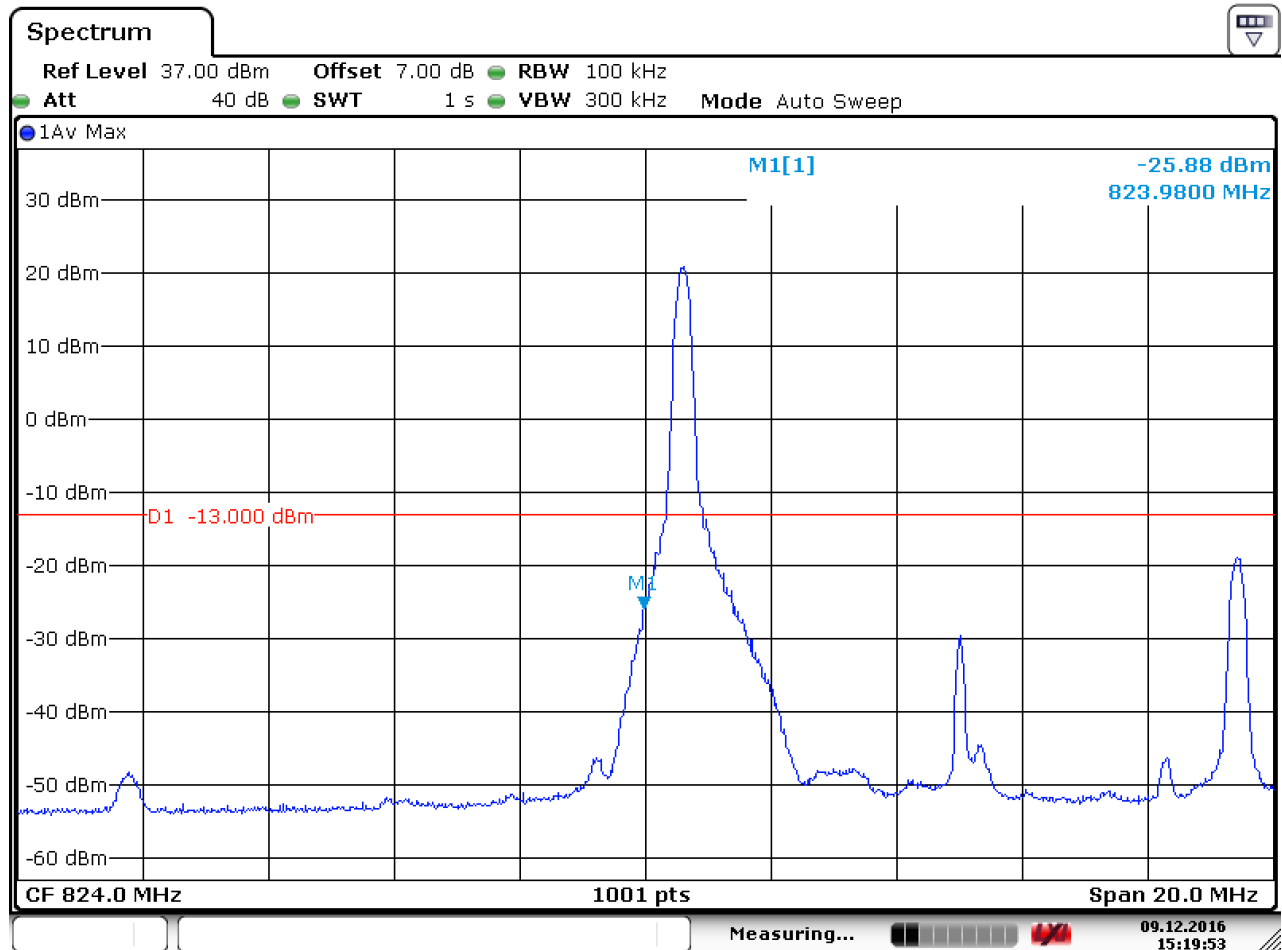
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5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB

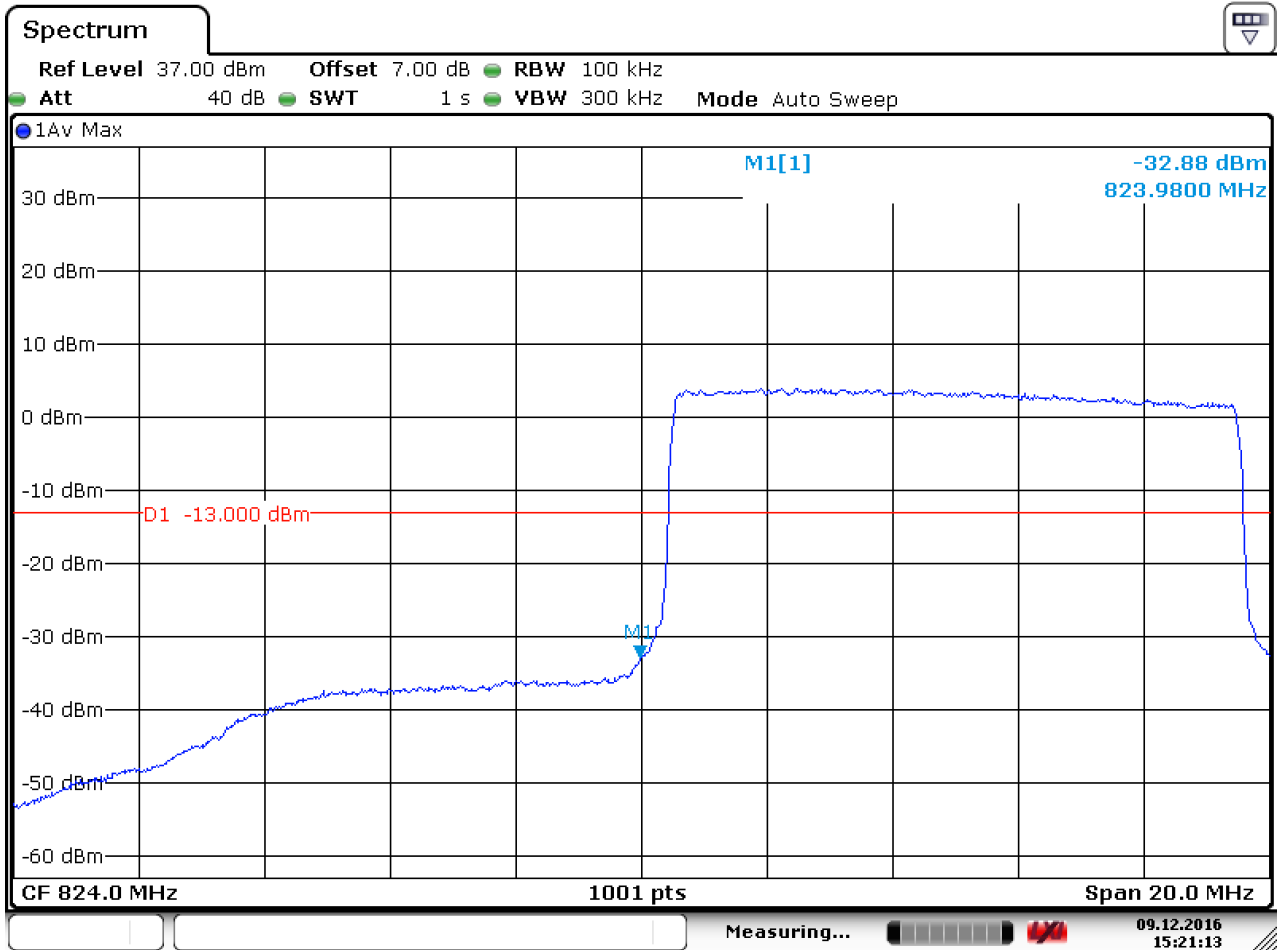


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5.1.1.8.1.2 Test RB=50RB



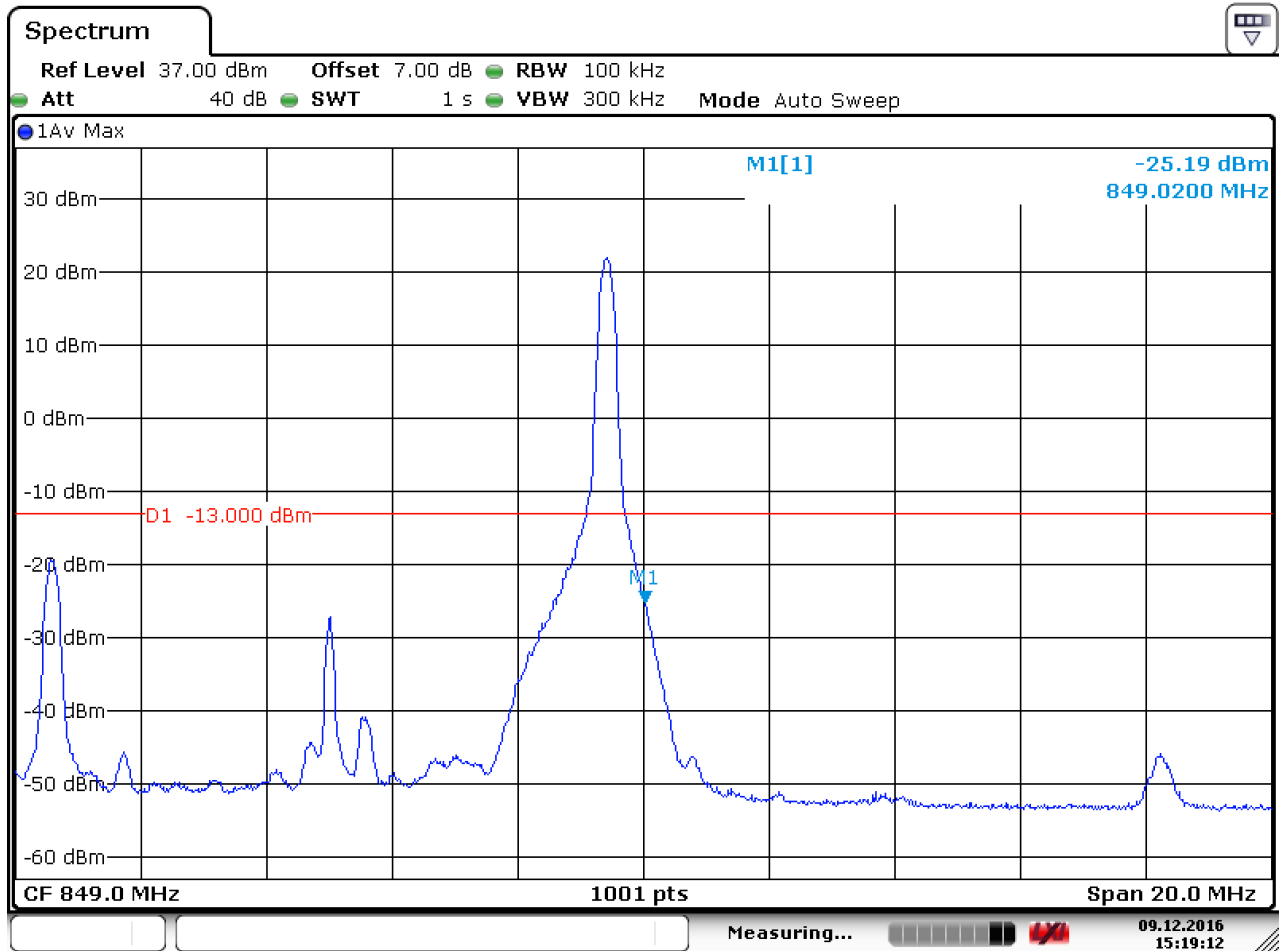
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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB

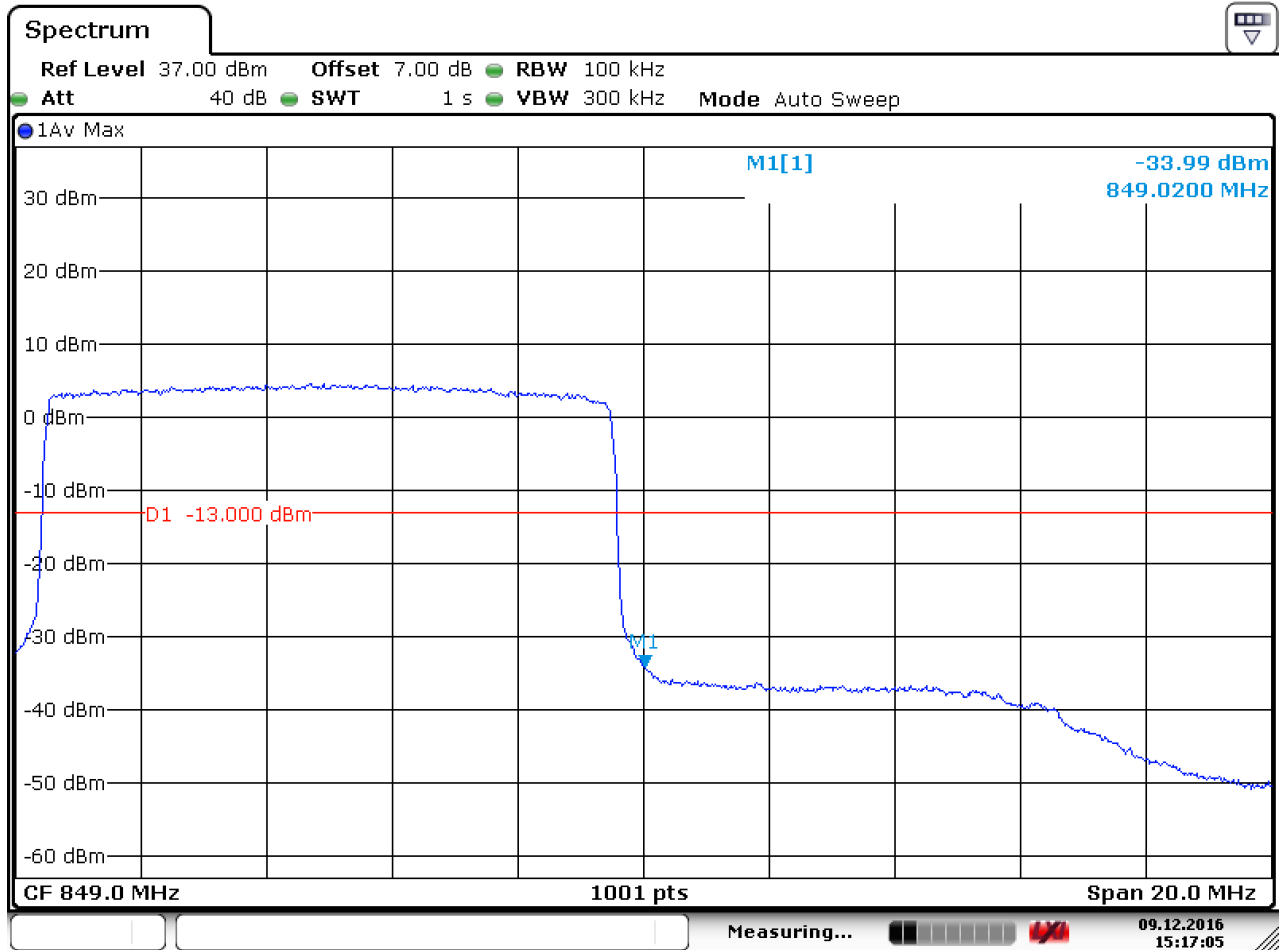


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5.1.1.8.2.2 Test RB=50RB



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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

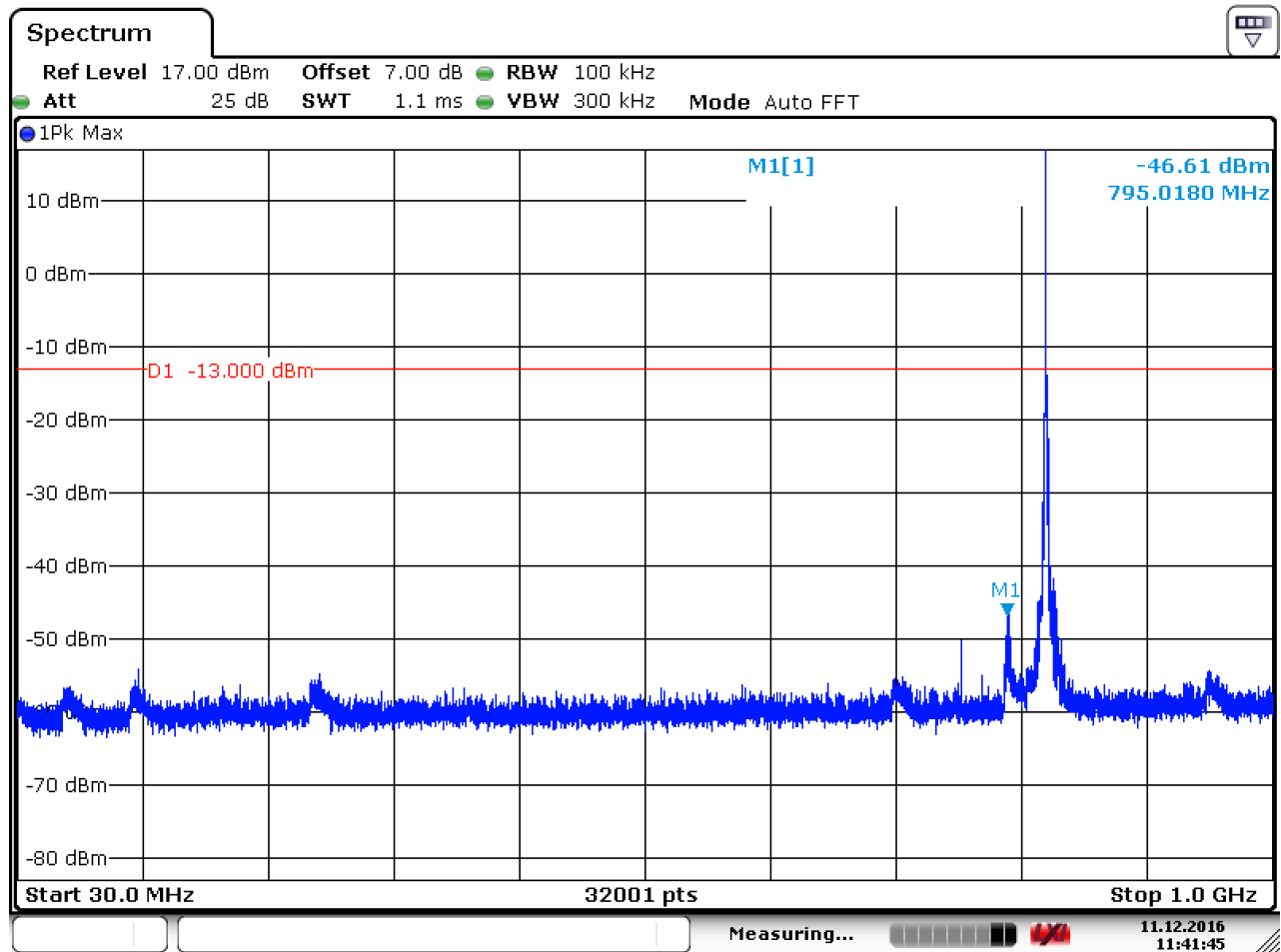
Part I - Test Plots

6.1 For LTE

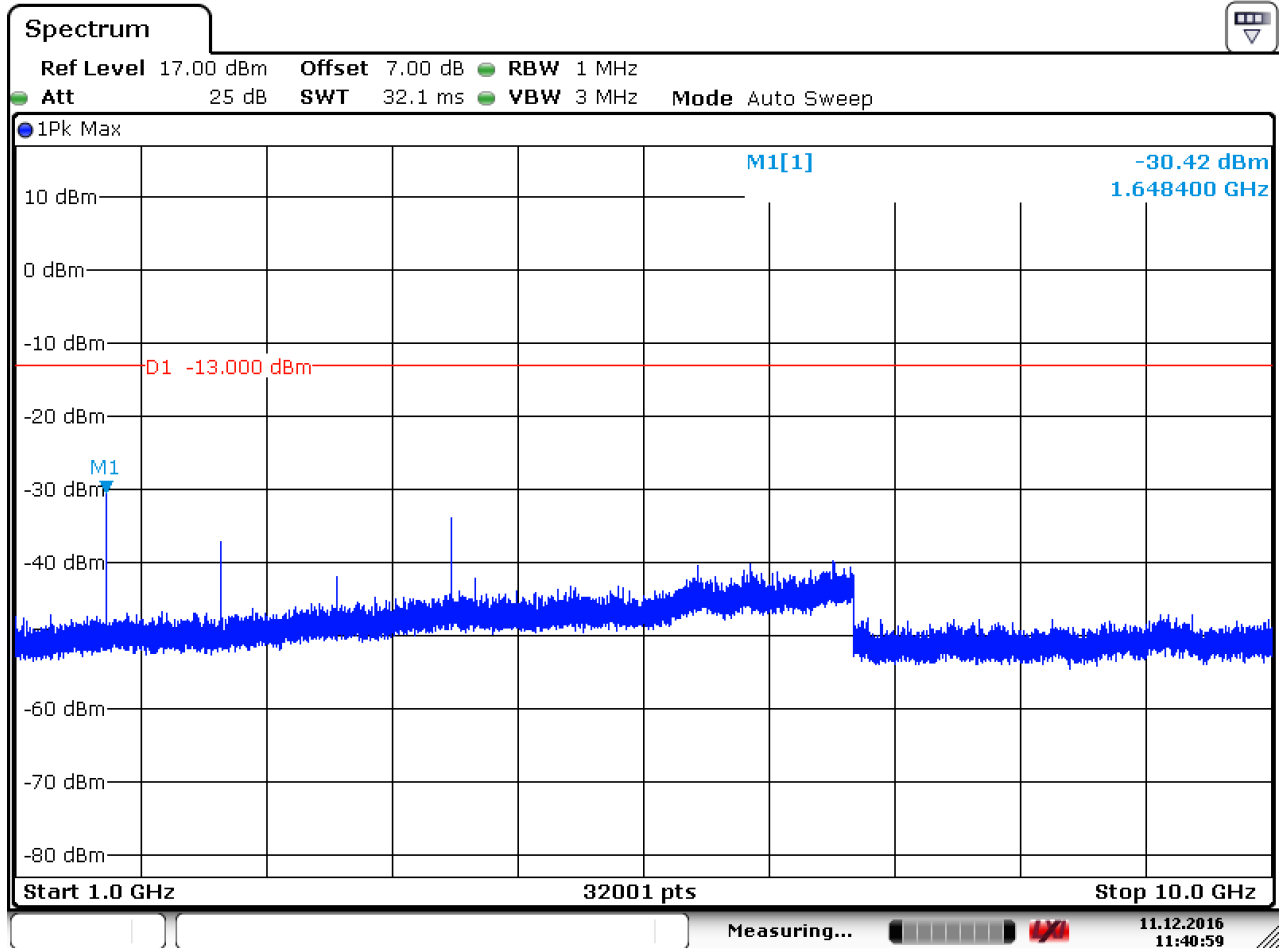
6.1.1 Test Band = LTE band5

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH



Date: 11.DEC.2016 11:41:45

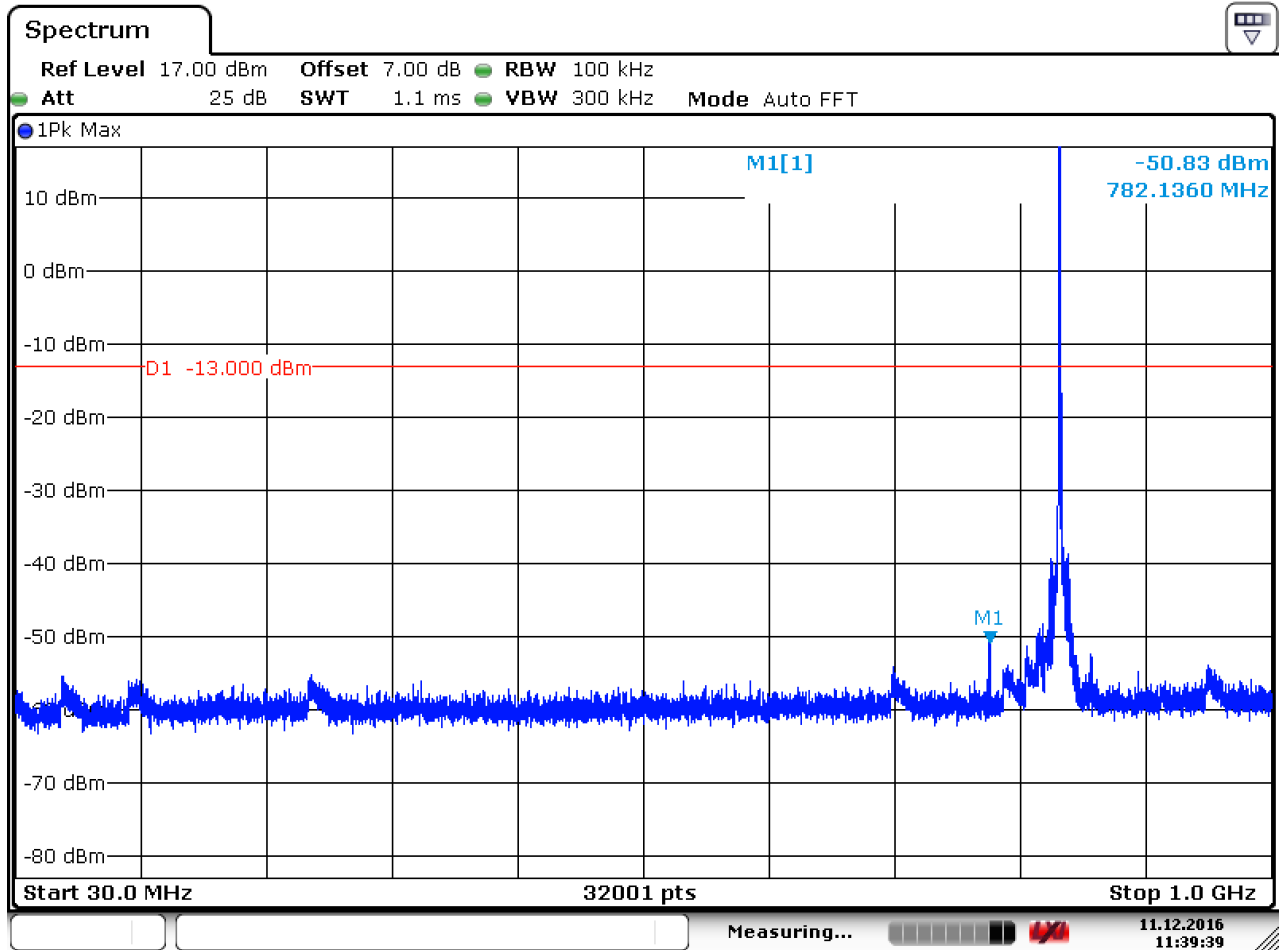


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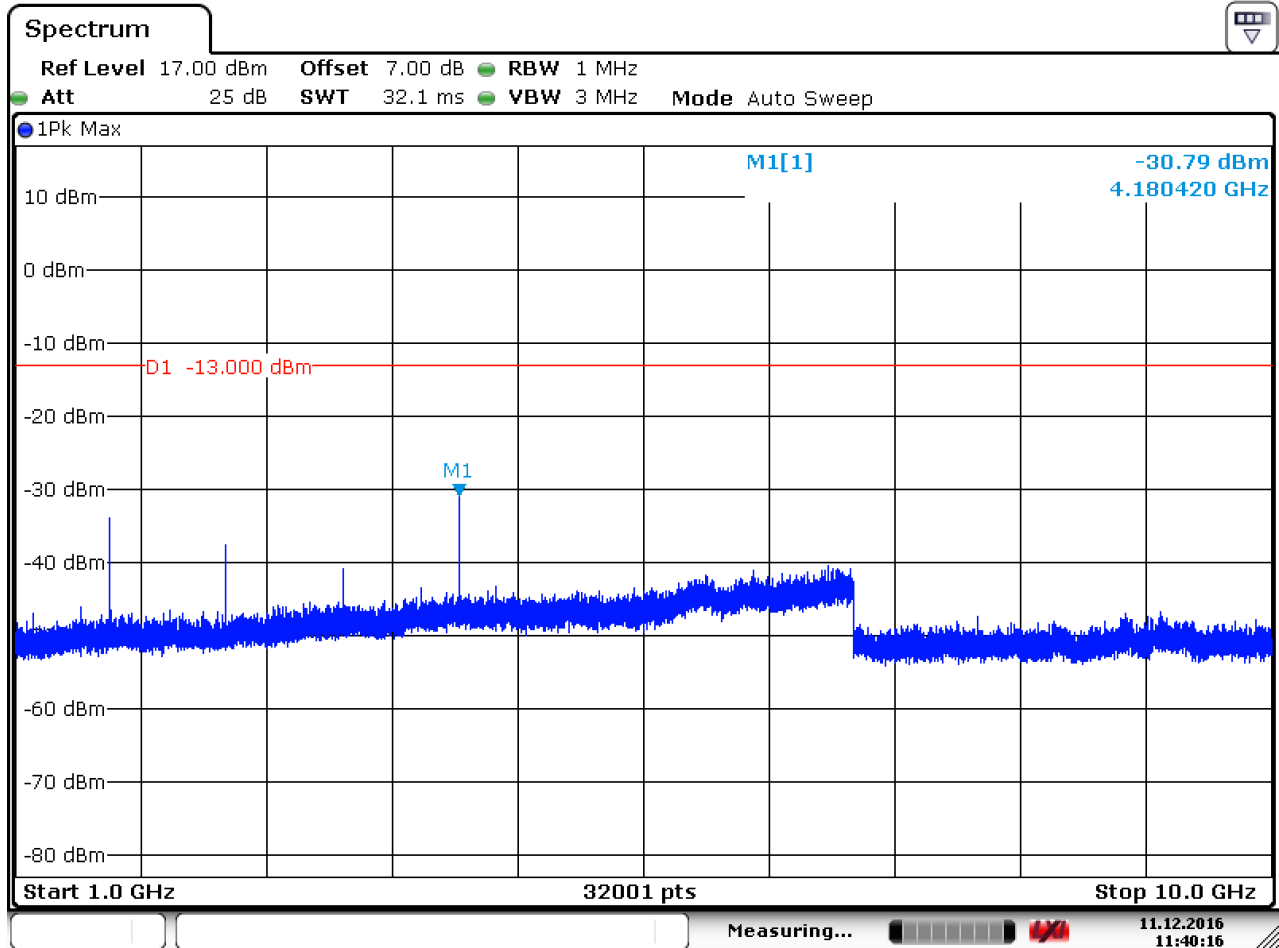


6.1.1.1.2 Test Channel = MCH



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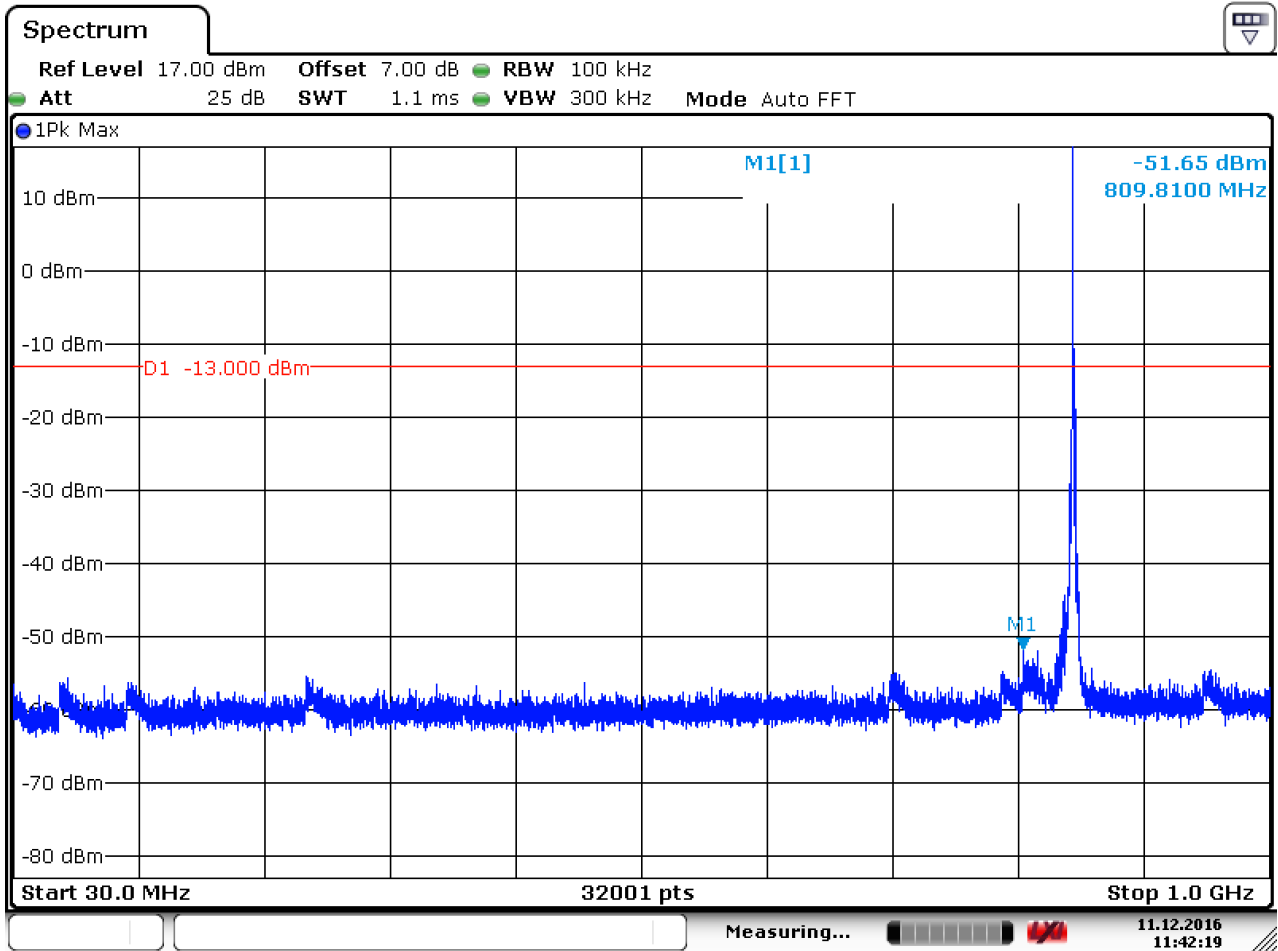


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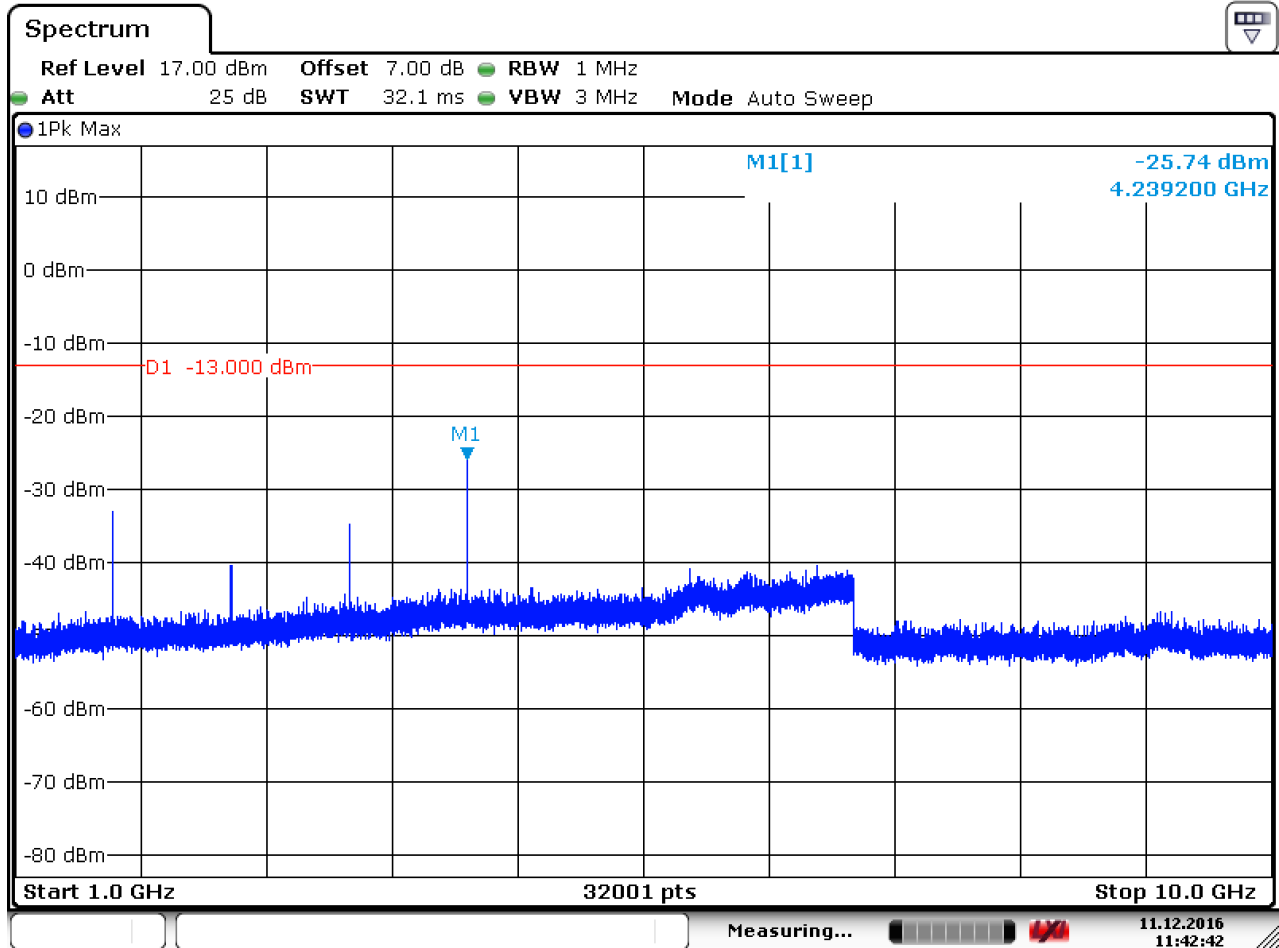


6.1.1.1.3 Test Channel = HCH



Date: 11.DEC.2016 11:42:19

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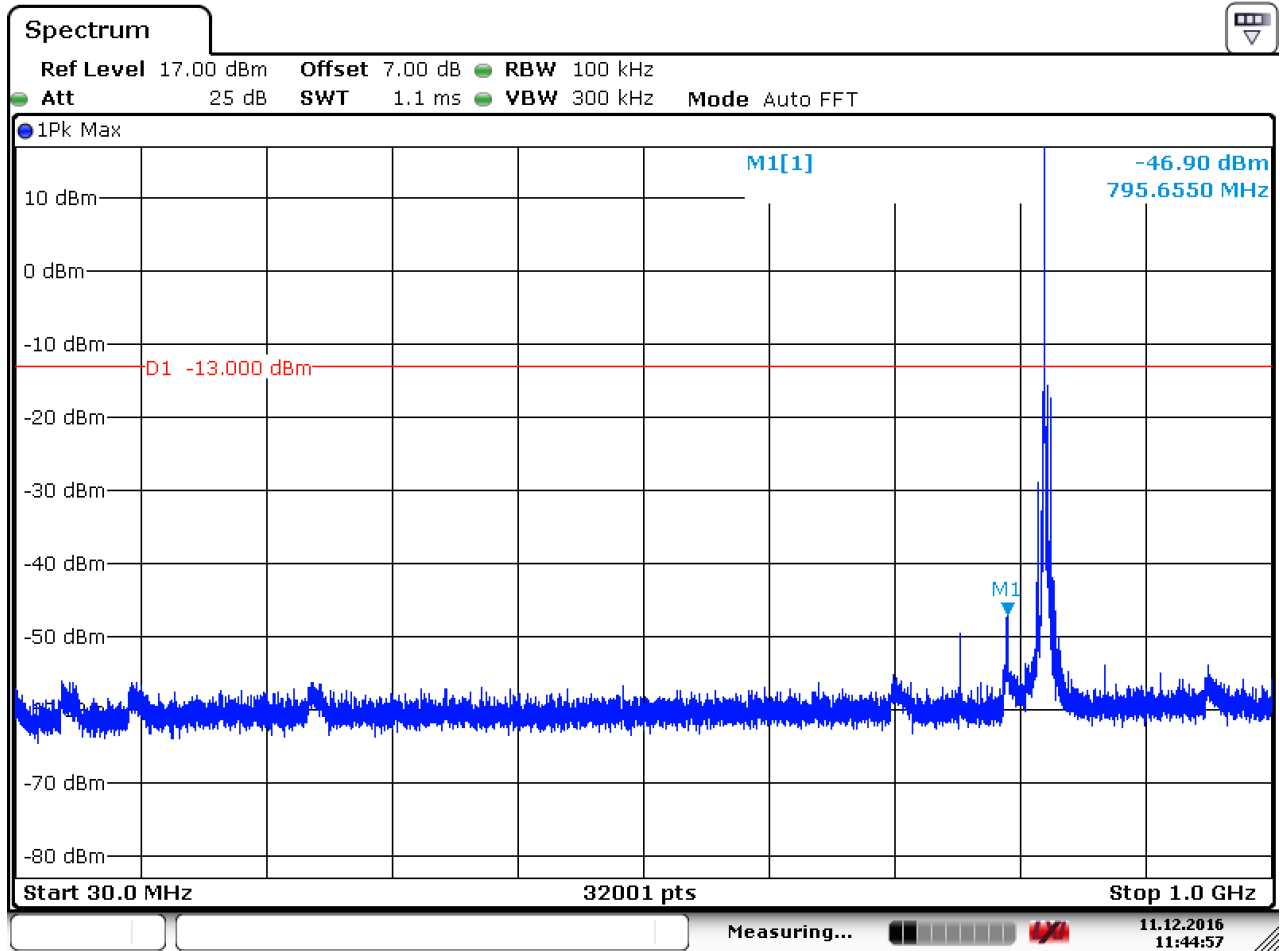


Date: 11.DEC.2016 11:42:41

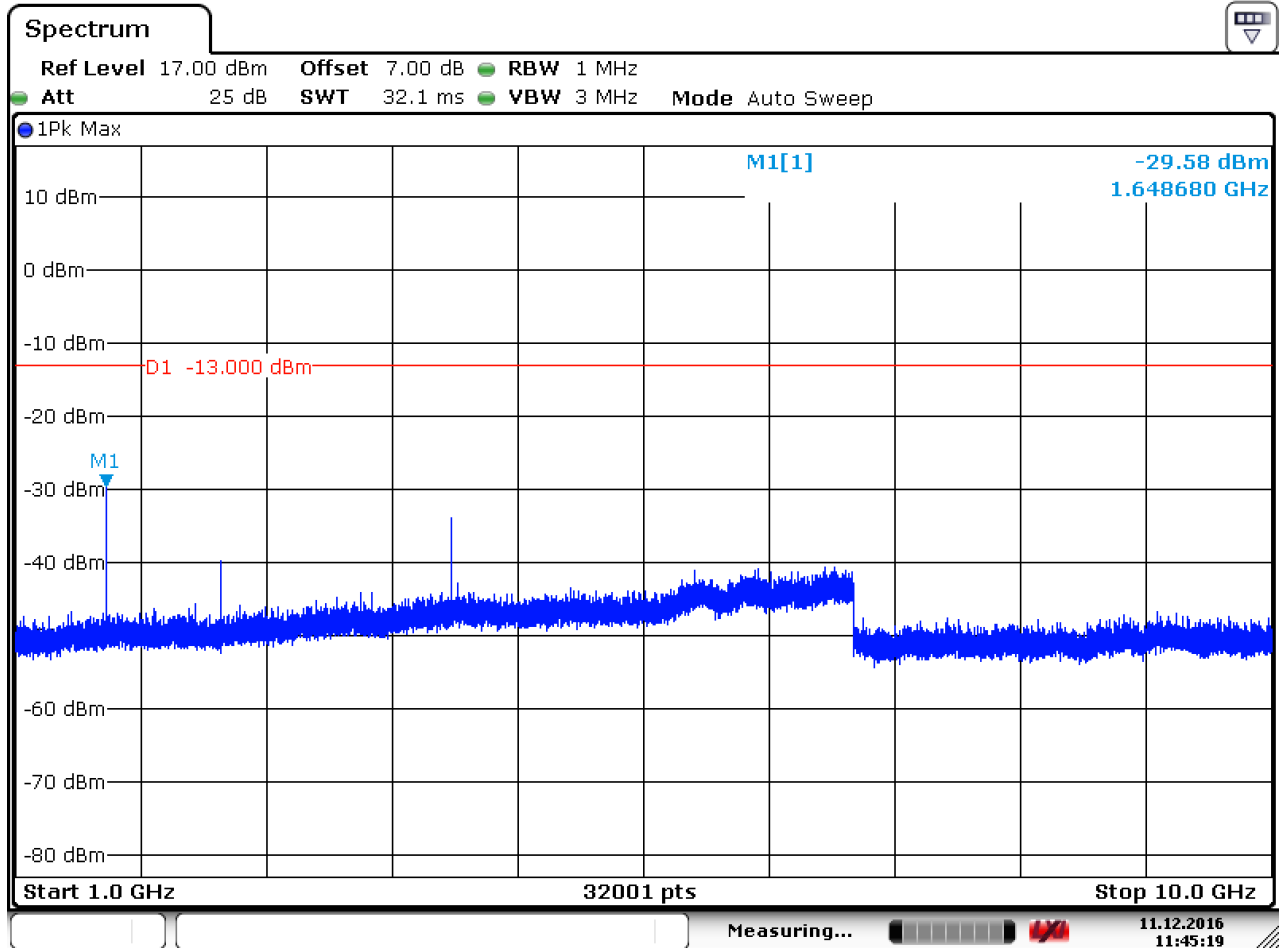


6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 11.DEC.2016 11:44:57

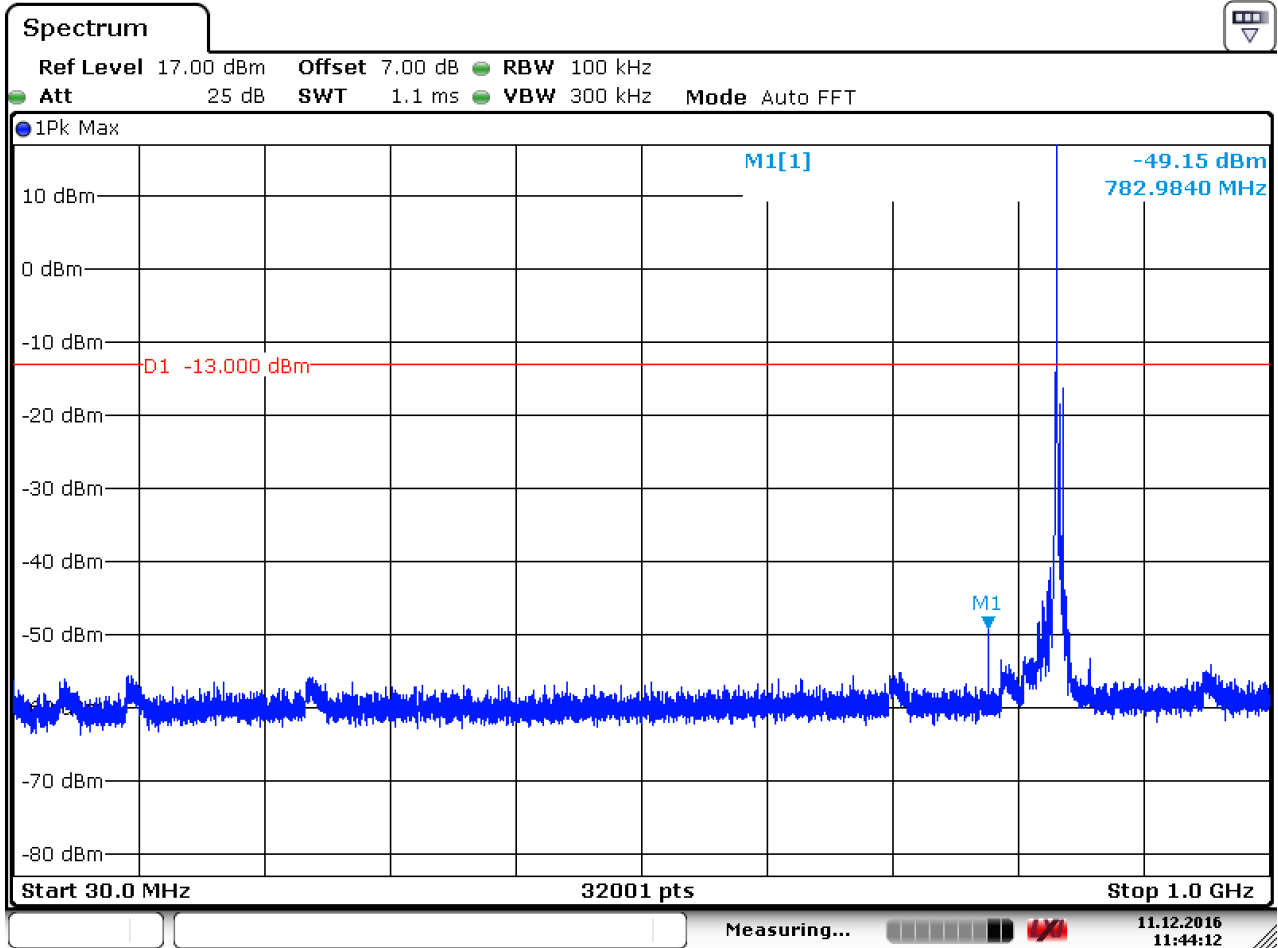


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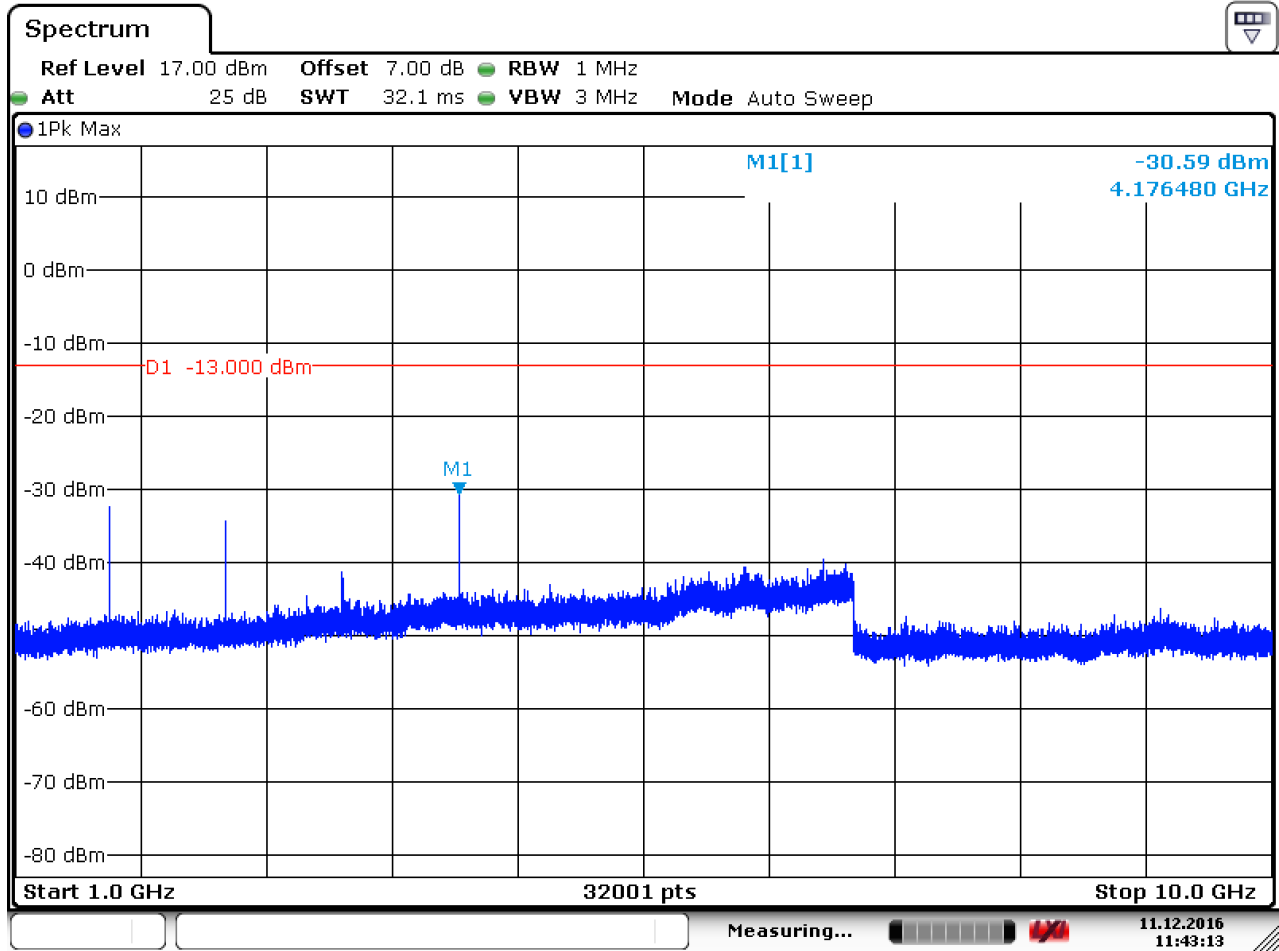


6.1.1.2.2 Test Channel = MCH



Date: 11.DEC.2016 11:44:12

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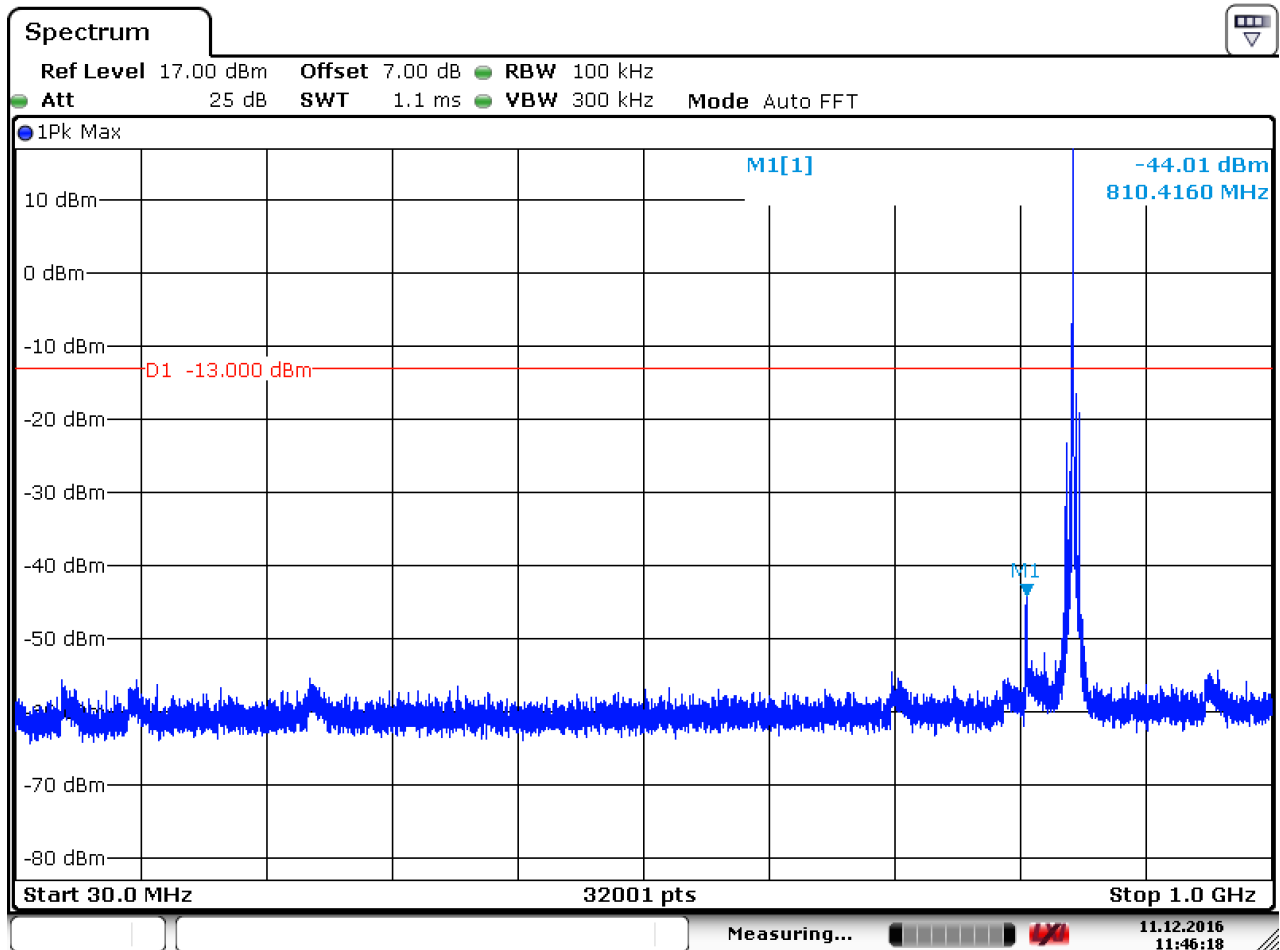


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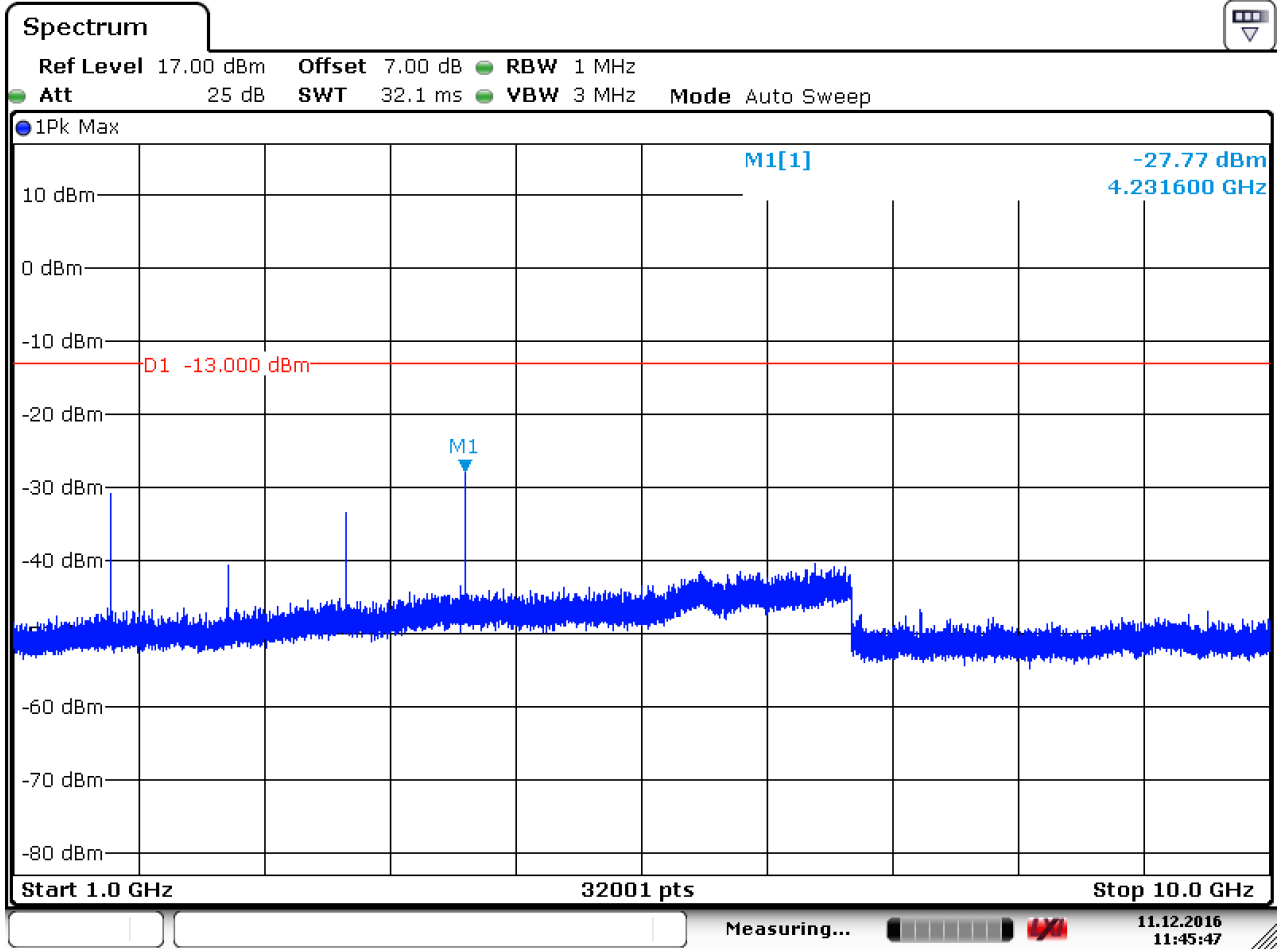


6.1.1.2.3 Test Channel = HCH



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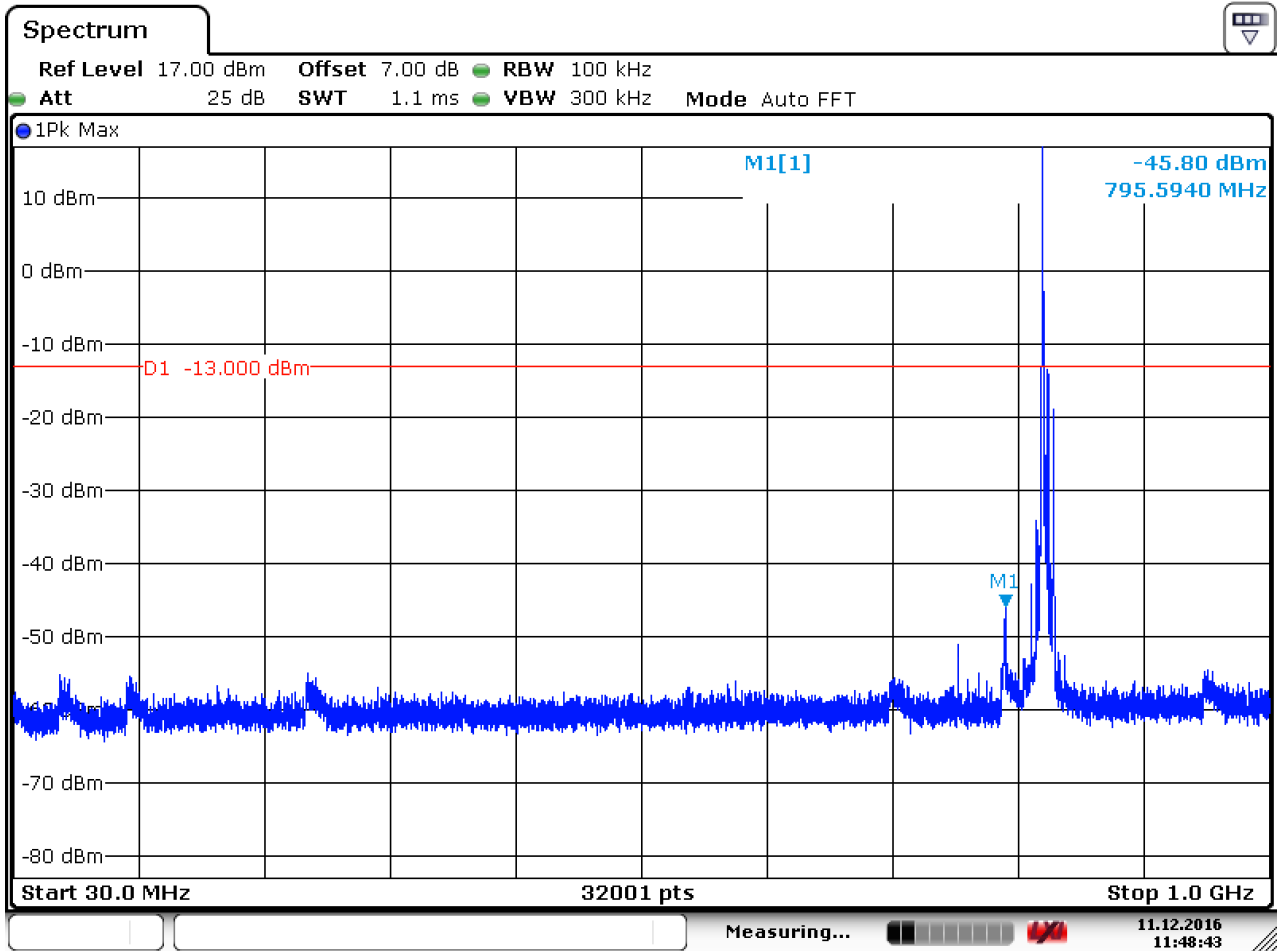
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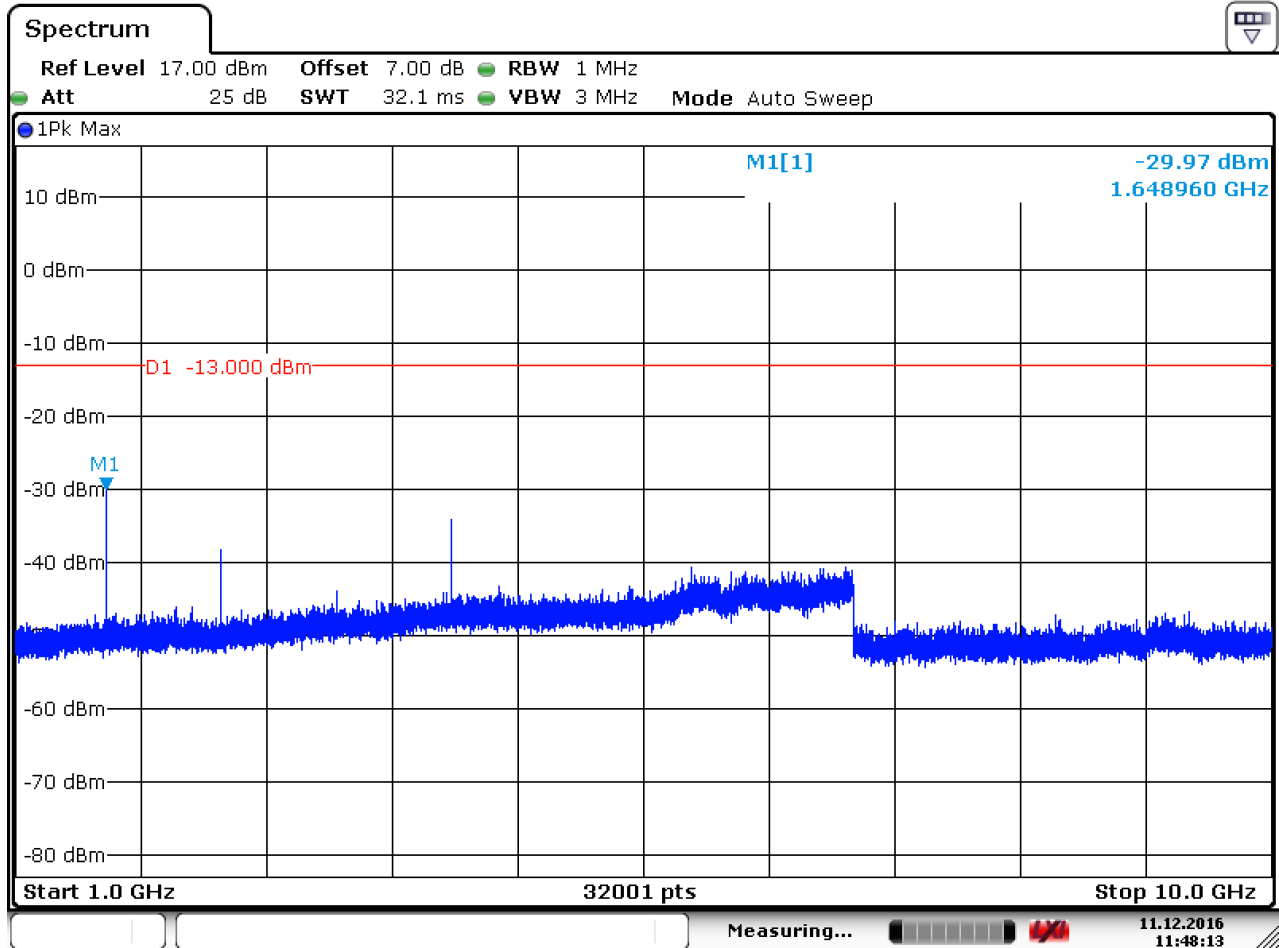
6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH



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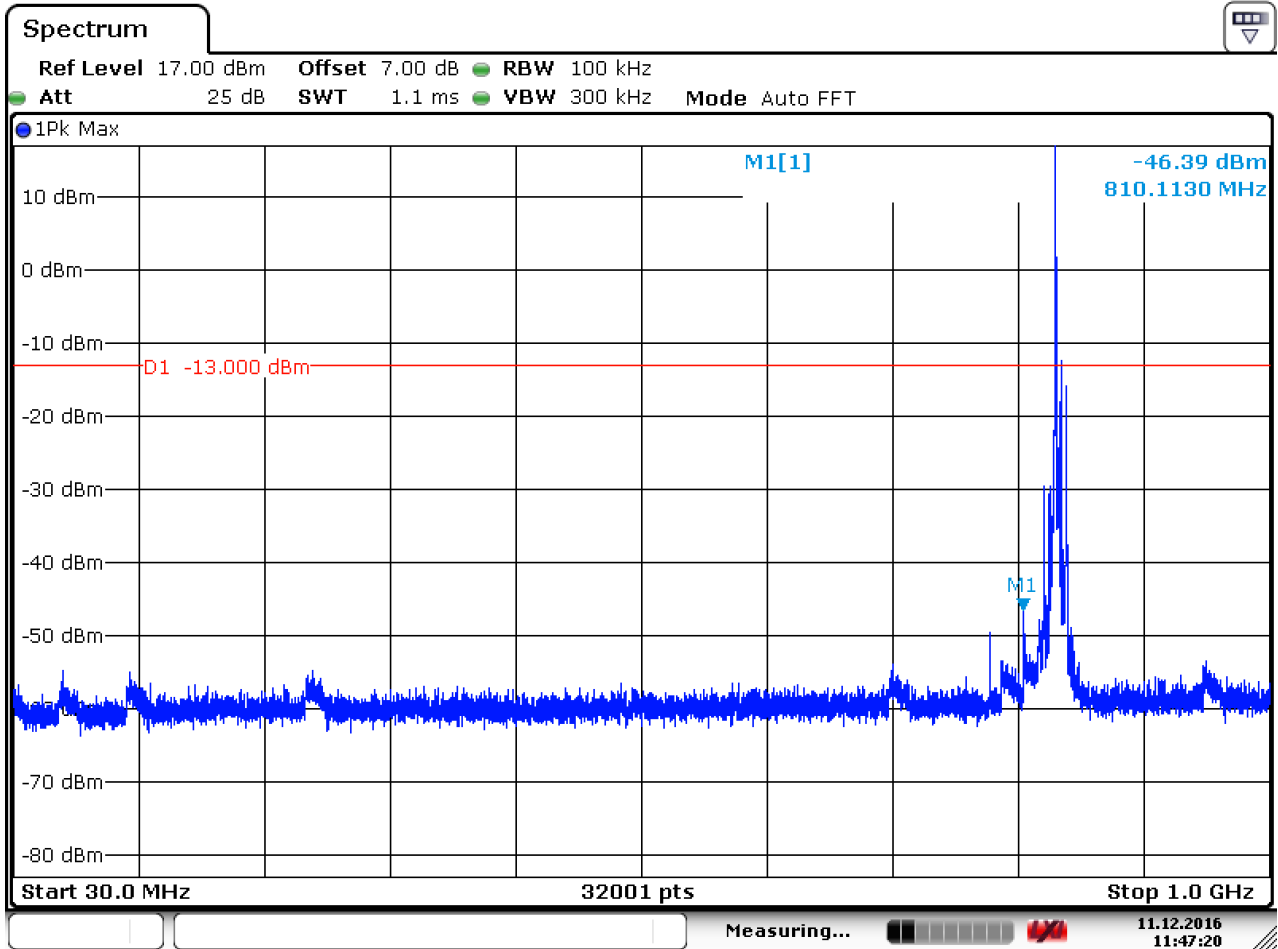


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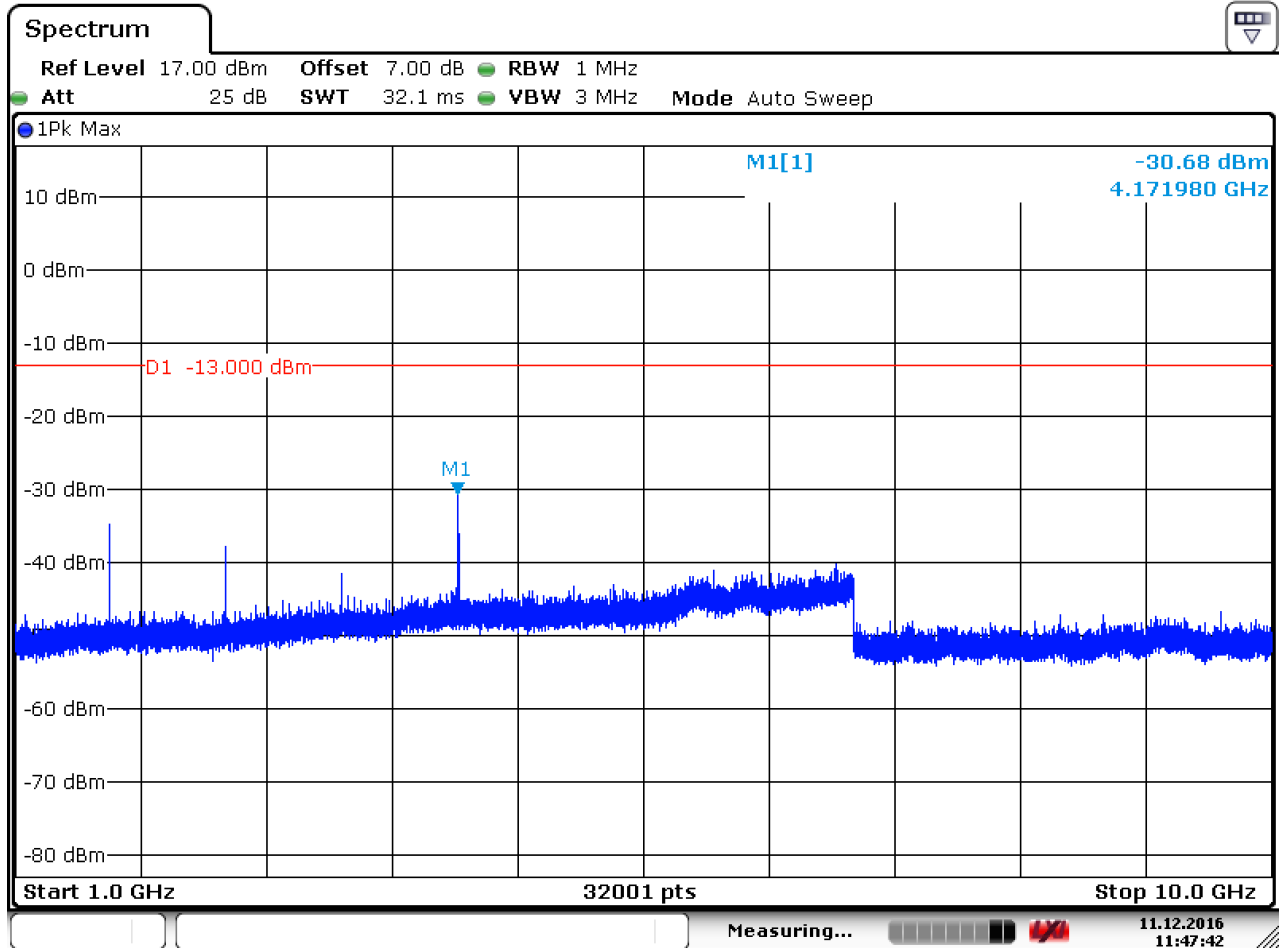


6.1.1.3.2 Test Channel = MCH



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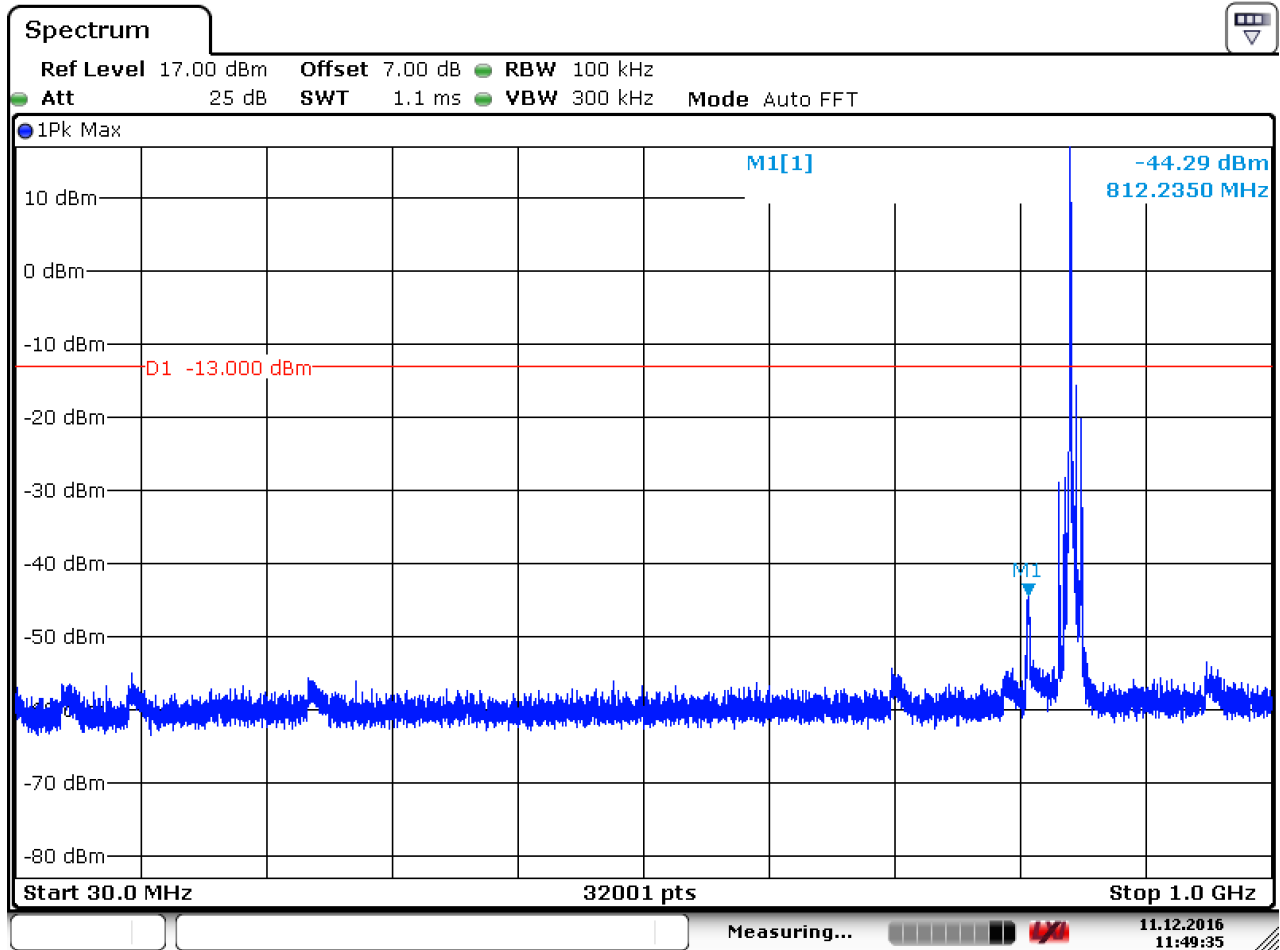


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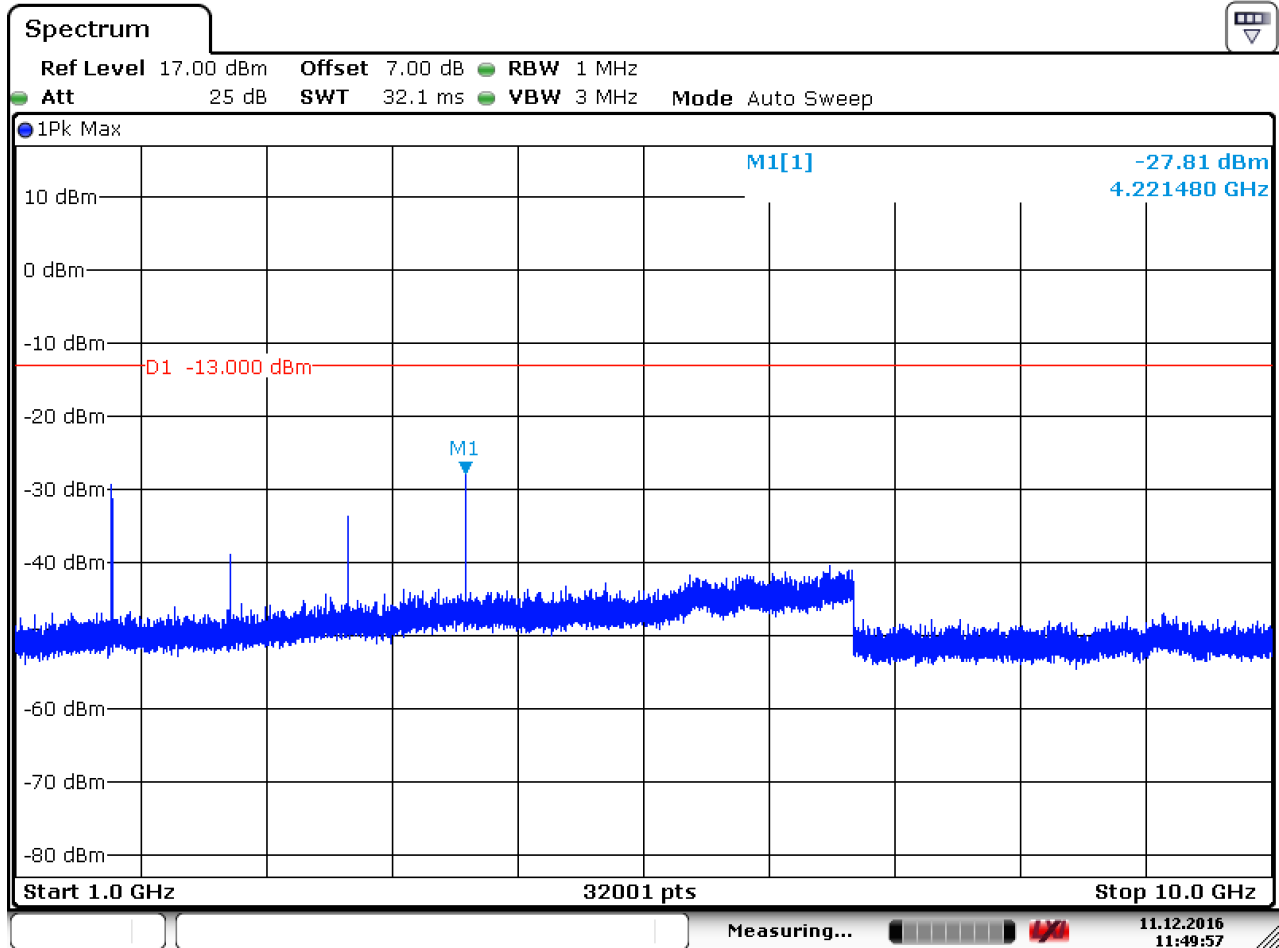
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6.1.1.3.3 Test Channel = HCH



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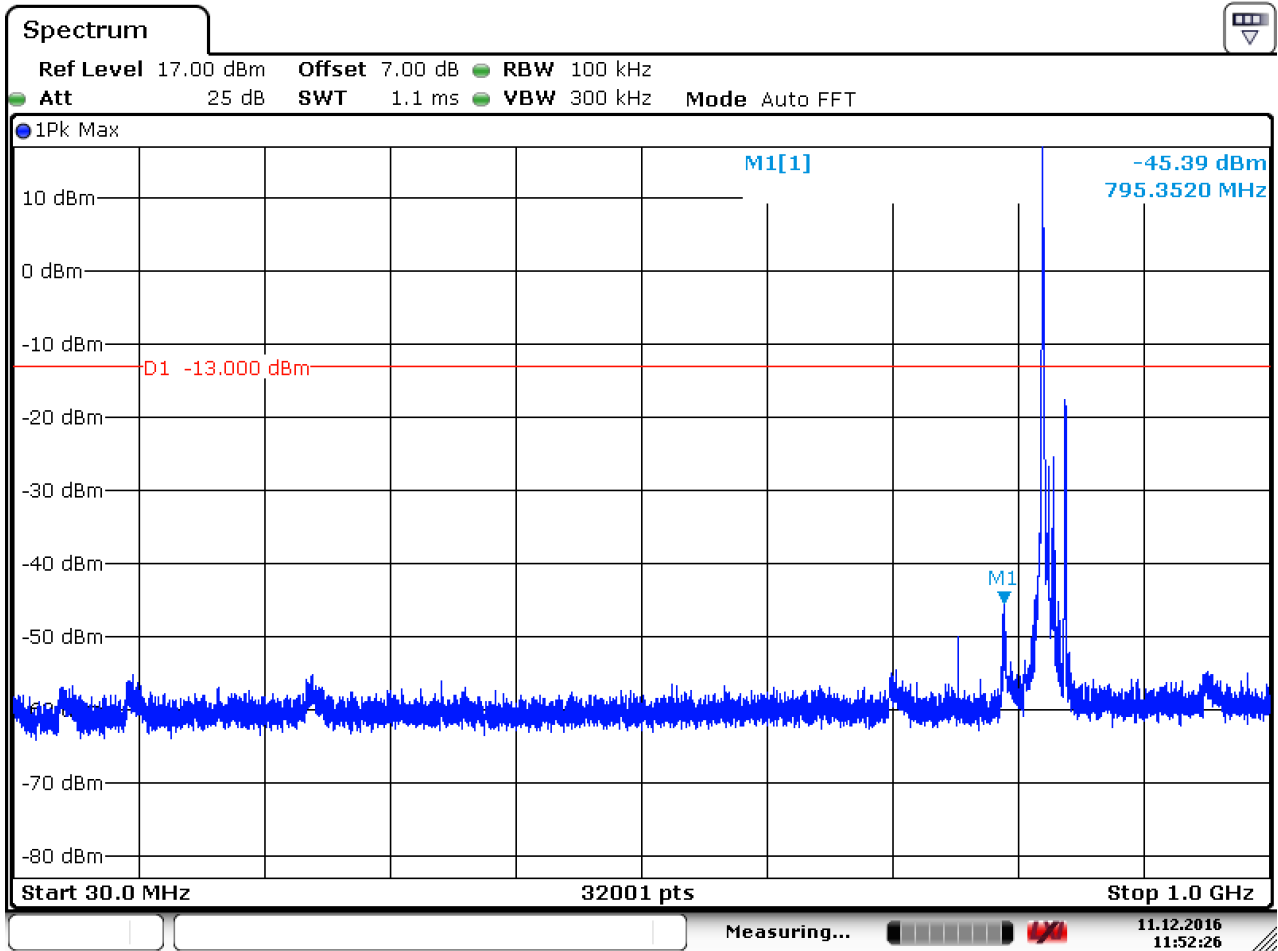
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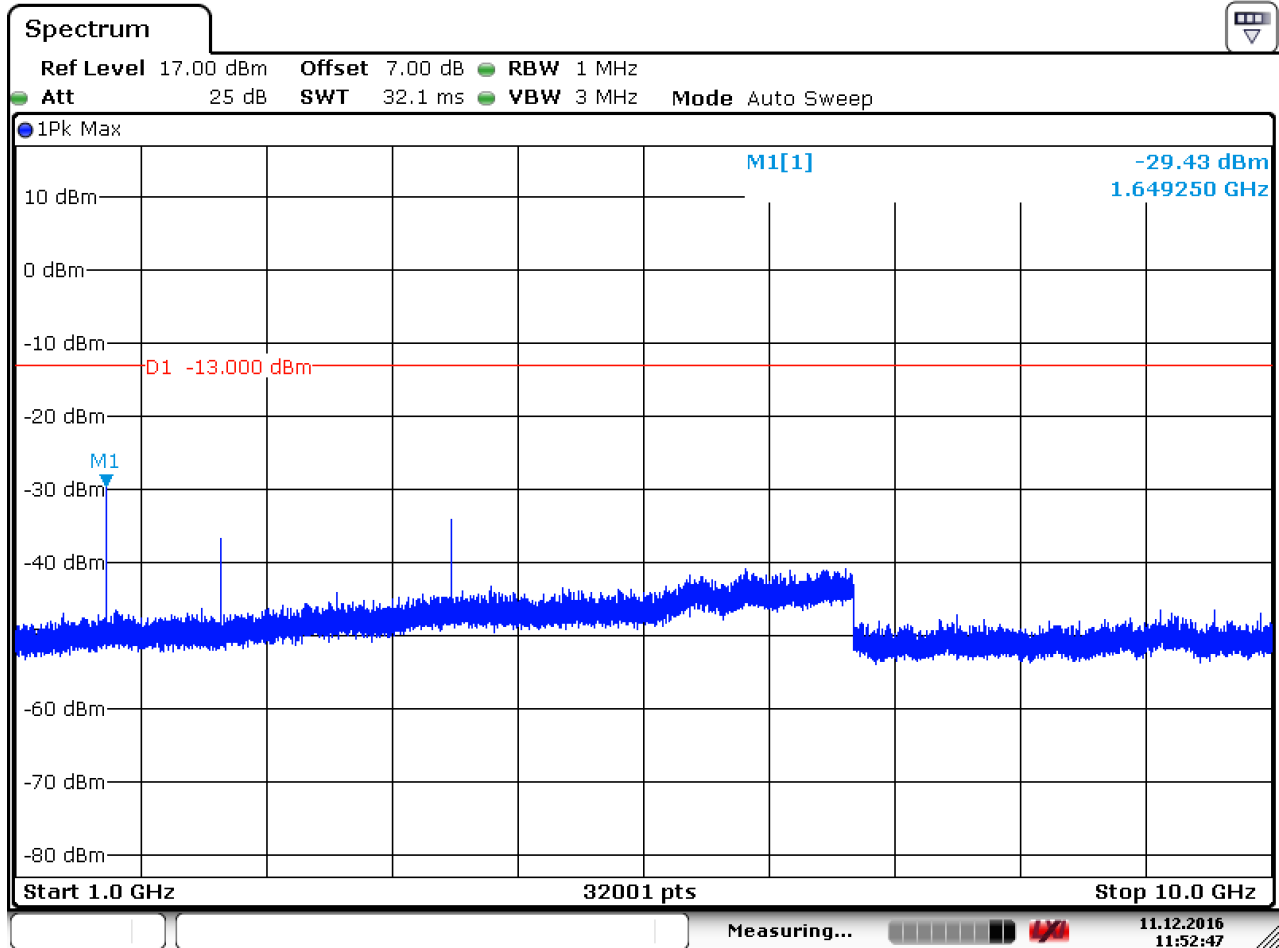
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH



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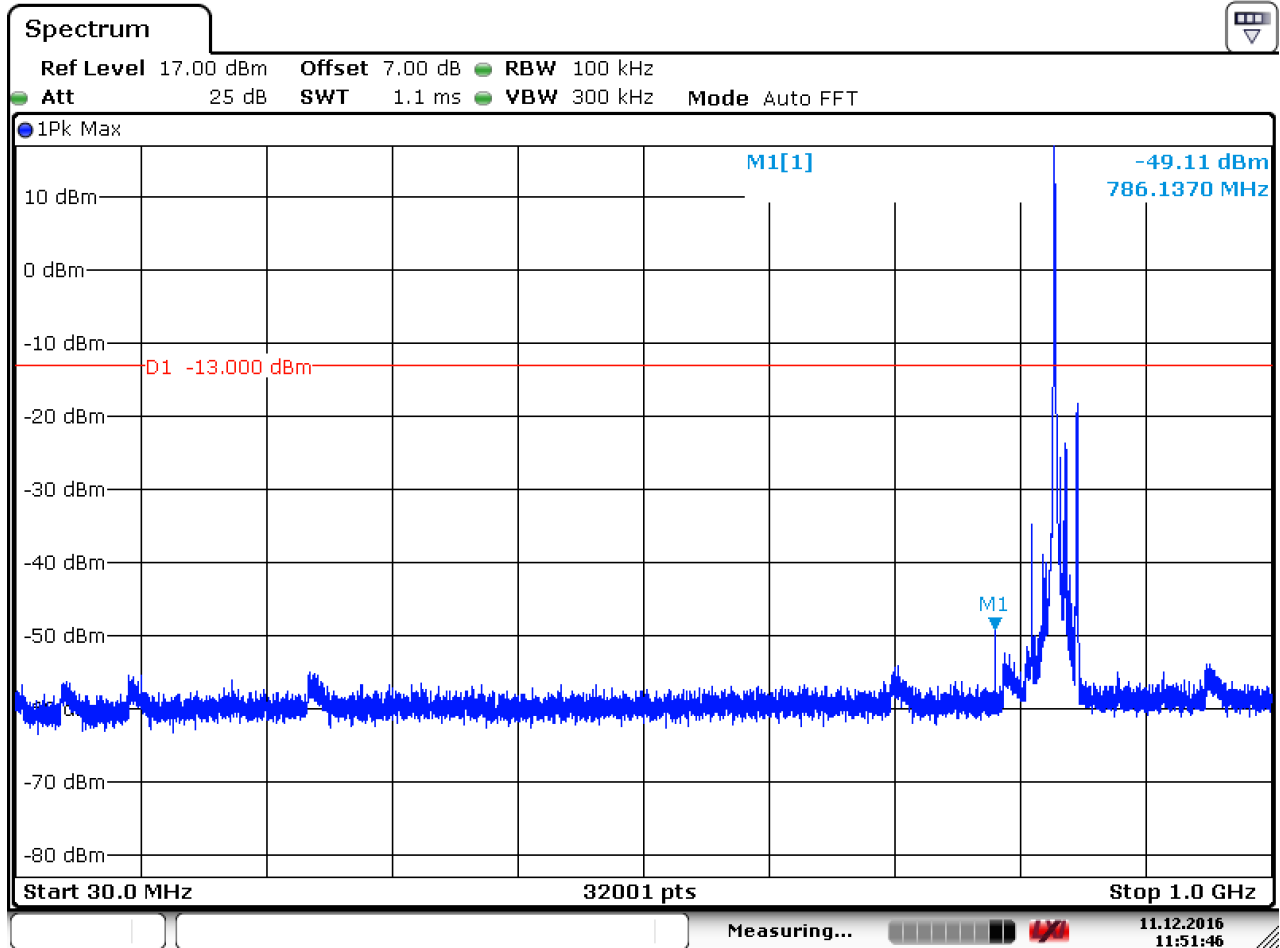


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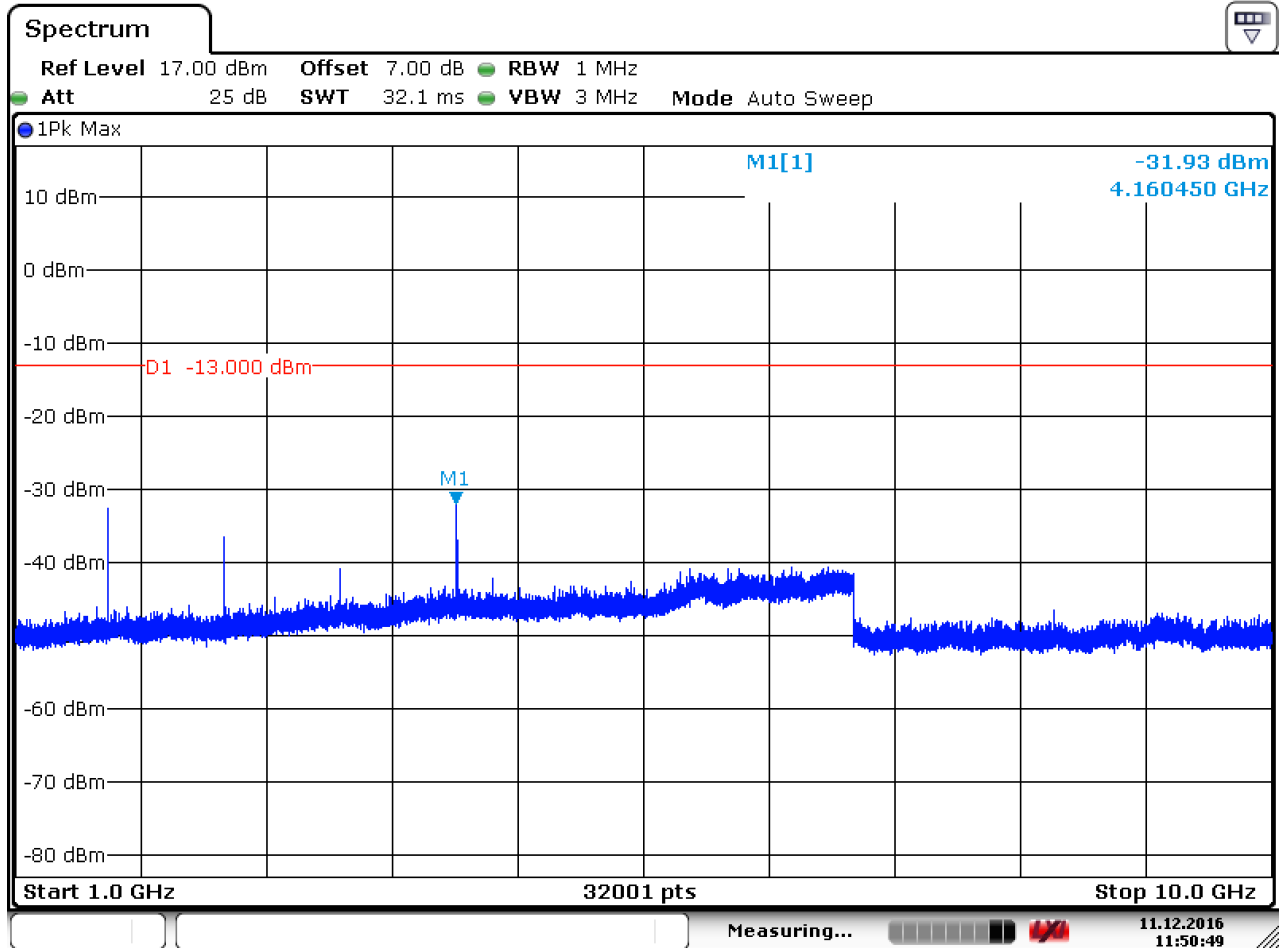


6.1.1.4.2 Test Channel = MCH



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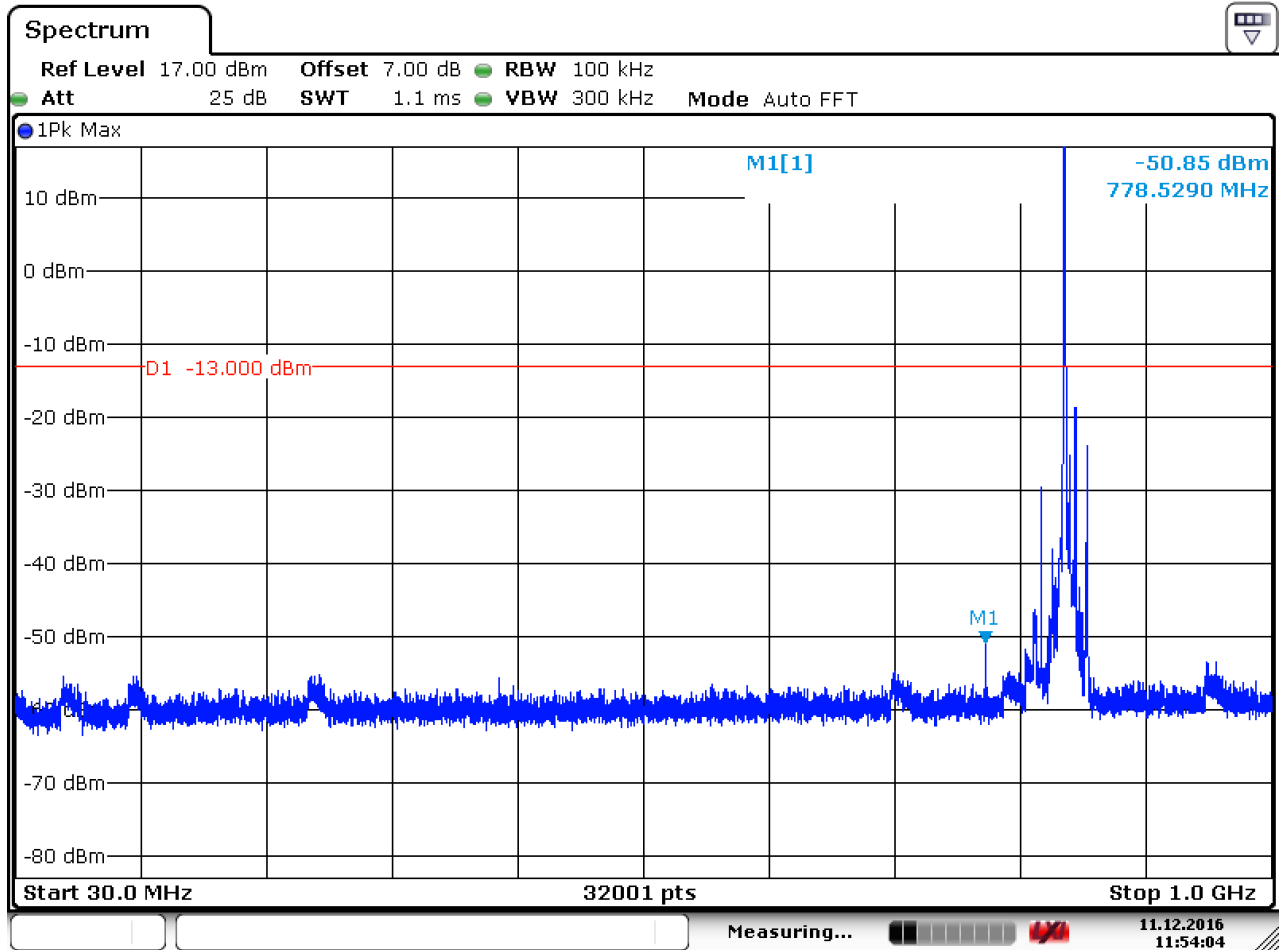


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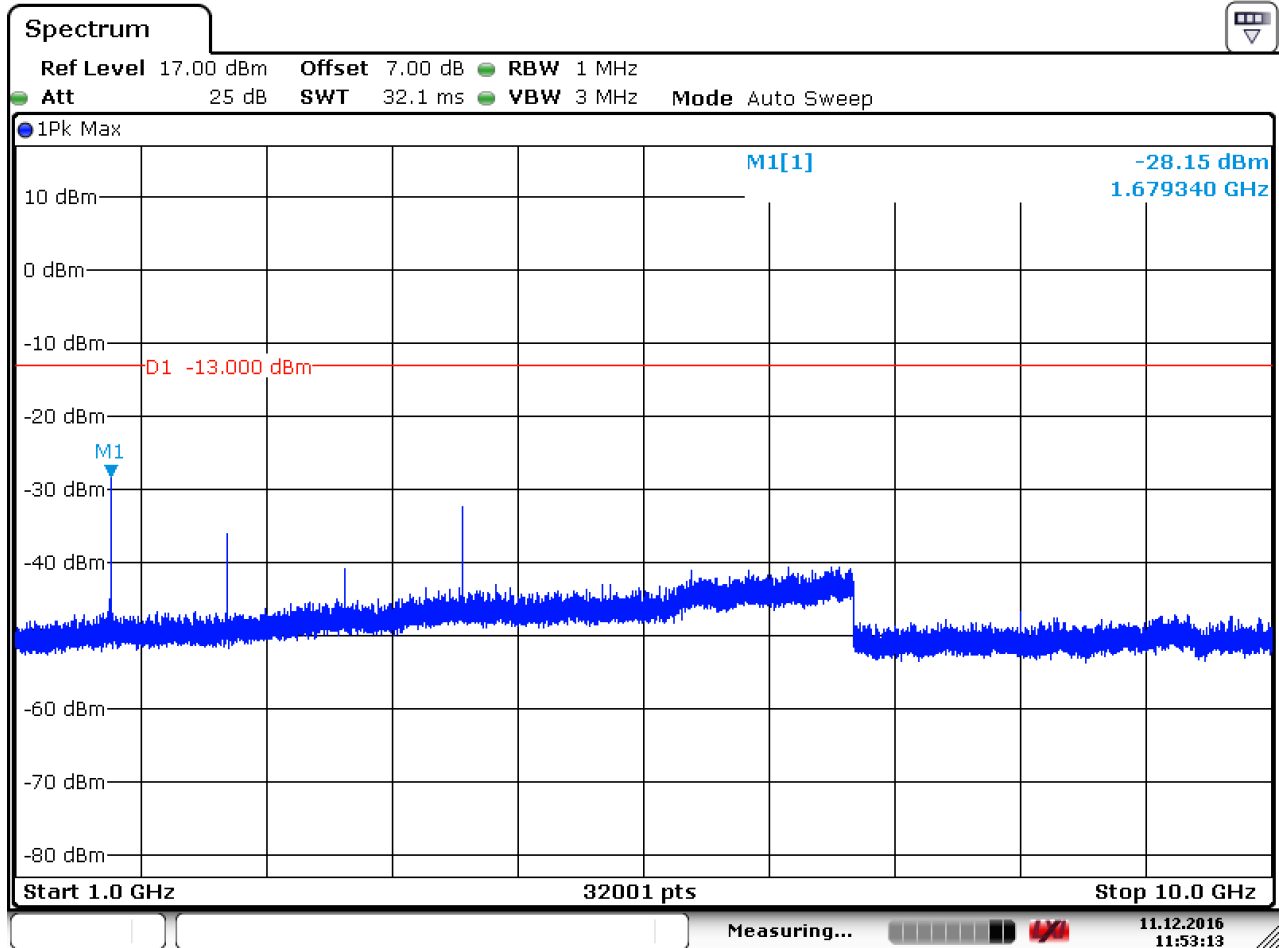


6.1.1.4.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band5

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

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1683.000	-64.77	-13.00	51.77	Vertical
3585.000	-69.30	-13.00	56.30	Vertical
4852.500	-67.37	-13.00	54.37	Vertical
1529.000	-66.15	-13.00	53.15	Horizontal
1837.000	-63.07	-13.00	50.07	Horizontal
3292.500	-69.72	-13.00	56.72	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1199.000	-66.36	-13.00	53.36	Vertical
2336.000	-59.50	-13.00	46.50	Vertical
6120.000	-66.25	-13.00	53.25	Vertical
1199.000	-67.08	-13.00	54.08	Horizontal
2544.000	-59.26	-13.00	46.26	Horizontal
5145.000	-67.43	-13.00	54.43	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1595.000	-65.93	-13.00	52.93	Vertical
1837.000	-63.10	-13.00	50.10	Vertical
3292.500	-69.47	-13.00	56.47	Vertical
1111.000	-66.99	-13.00	53.99	Horizontal
2472.000	-58.97	-13.00	45.97	Horizontal
4657.500	-67.95	-13.00	54.95	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band5	LTE/TM1 10MHz	LCH	TN	VL	-2.57	-0.00310	PASS
				VN	1.36	0.00164	PASS
				VH	-5.48	-0.00661	PASS
		MCH	TN	VL	-1.39	-0.00166	PASS
				VN	-2.71	-0.00324	PASS
				VH	1.73	0.00207	PASS
		HCH	TN	VL	-5.26	-0.00623	PASS
				VN	-4.86	-0.00576	PASS
				VH	-1.79	-0.00212	PASS
	LTE/TM2 10MHz	LCH	TN	VL	-4.65	-0.00561	PASS
				VN	-3.25	-0.00392	PASS
				VH	-4.16	-0.00502	PASS
		MCH	TN	VL	1.02	0.00122	PASS
				VN	-3.51	-0.00420	PASS
				VH	1.39	0.00166	PASS
		HCH	TN	VL	-2.08	-0.00246	PASS
				VN	-6.66	-0.00789	PASS
				VH	5.24	0.00621	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band5	LTE/TM1 10MHz	LCH	VN	-30	-4.20	-0.00507	PASS
				-20	-2.34	-0.00282	PASS
				-10	-2.82	-0.00340	PASS
				0	1.15	0.00139	PASS
				10	1.82	0.00220	PASS
				20	0.55	0.00066	PASS
				30	-0.71	-0.00086	PASS
				40	-2.62	-0.00316	PASS
				50	-5.99	-0.00723	PASS
		MCH	VN	-30	-5.25	-0.00628	PASS
				-20	-5.15	-0.00616	PASS
				-10	-3.23	-0.00386	PASS
				0	-1.44	-0.00172	PASS
				10	-2.28	-0.00273	PASS
				20	-0.84	-0.00100	PASS
				30	-3.16	-0.00378	PASS
				40	-4.85	-0.00580	PASS
				50	-5.40	-0.00646	PASS
		HCH	VN	-30	-6.54	-0.00775	PASS
				-20	-3.25	-0.00385	PASS
				-10	0.78	0.00092	PASS
				0	-2.24	-0.00265	PASS
				10	2.25	0.00267	PASS
				20	-0.37	-0.00044	PASS
30	-2.48			-0.00294	PASS		
40	-4.22			-0.00500	PASS		
50	-3.74			-0.00443	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band5	LTE/TM2 10MHz	LCH	VN	-30	-3.66	-0.00441	PASS
				-20	-2.48	-0.00299	PASS
				-10	1.19	0.00144	PASS
				0	2.67	0.00322	PASS
				10	1.64	0.00198	PASS
				20	-0.73	-0.00088	PASS
				30	-3.24	-0.00391	PASS
				40	2.30	0.00277	PASS
		MCH	VN	-30	-3.30	-0.00395	PASS
				-20	-2.54	-0.00304	PASS
				-10	-2.12	-0.00253	PASS
				0	-1.82	-0.00218	PASS
				10	-0.65	-0.00078	PASS
				20	1.29	0.00154	PASS
				30	-2.74	-0.00328	PASS
				40	-6.52	-0.00779	PASS
		HCH	VN	-30	-3.24	-0.00384	PASS
				-20	-4.78	-0.00566	PASS
				-10	2.12	0.00251	PASS
				0	-3.58	-0.00424	PASS
				10	2.62	0.00310	PASS
				20	-1.93	-0.00229	PASS
				30	-3.38	-0.00400	PASS
				40	-4.72	-0.00559	PASS
				50	-5.33	-0.00632	PASS

The End

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