



Appendix B

Test Data for SZEM1610009167RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (ERP) for LTE BAND 17

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM1	5M	LCH	RB1#0	23.75	23.22	34.77	PASS
				RB1#13	23.77	23.24	34.77	PASS
				RB1#24	23.82	23.29	34.77	PASS
				RB12#0	22.80	22.27	34.77	PASS
				RB12#6	22.85	22.32	34.77	PASS
				RB12#13	22.97	22.44	34.77	PASS
				RB25#0	22.85	22.32	34.77	PASS
			MCH	RB1#0	23.93	23.40	34.77	PASS
				RB1#13	23.71	23.18	34.77	PASS
				RB1#24	23.83	23.30	34.77	PASS
				RB12#0	22.92	22.39	34.77	PASS
				RB12#6	22.81	22.28	34.77	PASS
				RB12#13	22.91	22.38	34.77	PASS
				RB25#0	23.93	23.40	34.77	PASS
			HCH	RB1#0	23.85	23.32	34.77	PASS
				RB1#13	23.83	23.30	34.77	PASS
				RB1#24	23.73	23.20	34.77	PASS
				RB12#0	22.97	22.44	34.77	PASS
				RB12#6	22.95	22.42	34.77	PASS
				RB12#13	22.88	22.35	34.77	PASS
				RB25#0	23.85	23.32	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM2	5M	LCH	RB1#0	22.70	22.17	34.77	PASS
				RB1#13	22.70	22.17	34.77	PASS
				RB1#24	22.77	22.24	34.77	PASS
				RB12#0	21.88	21.35	34.77	PASS
				RB12#6	21.90	21.37	34.77	PASS
				RB12#13	22.05	21.52	34.77	PASS
				RB25#0	21.85	21.32	34.77	PASS
			MCH	RB1#0	22.86	22.33	34.77	PASS
				RB1#13	22.67	22.14	34.77	PASS
				RB1#24	22.79	22.26	34.77	PASS
				RB12#0	21.98	21.45	34.77	PASS
				RB12#6	21.88	21.35	34.77	PASS
				RB12#13	21.97	21.44	34.77	PASS
				RB25#0	21.85	21.32	34.77	PASS
			HCH	RB1#0	22.76	22.23	34.77	PASS
				RB1#13	22.75	22.22	34.77	PASS
				RB1#24	22.64	22.11	34.77	PASS
				RB12#0	22.04	21.51	34.77	PASS
				RB12#6	22.00	21.47	34.77	PASS
				RB12#13	21.93	21.40	34.77	PASS
				RB25#0	21.90	21.37	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM1	10M	LCH	RB1#0	23.71	23.18	34.77	PASS
				RB1#25	23.76	23.23	34.77	PASS
				RB1#49	23.64	23.11	34.77	PASS
				RB25#0	22.84	22.31	34.77	PASS
				RB25#13	22.80	22.27	34.77	PASS
				RB25#25	22.77	22.24	34.77	PASS
				RB50#0	22.82	22.29	34.77	PASS
			MCH	RB1#0	23.64	23.11	34.77	PASS
				RB1#25	23.67	23.14	34.77	PASS
				RB1#49	23.70	23.17	34.77	PASS
				RB25#0	22.80	22.27	34.77	PASS
				RB25#13	22.75	22.22	34.77	PASS
				RB25#25	22.77	22.24	34.77	PASS
				RB50#0	22.81	22.28	34.77	PASS
			HCH	RB1#0	23.67	23.14	34.77	PASS
				RB1#25	23.67	23.14	34.77	PASS
				RB1#49	23.65	23.12	34.77	PASS
				RB25#0	22.81	22.28	34.77	PASS
				RB25#13	22.74	22.21	34.77	PASS
				RB25#25	22.76	22.23	34.77	PASS
				RB50#0	22.78	22.25	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM2	10M	LCH	RB1#0	22.97	22.44	34.77	PASS
				RB1#25	23.01	22.48	34.77	PASS
				RB1#49	23.11	22.58	34.77	PASS
				RB25#0	21.80	21.27	34.77	PASS
				RB25#13	21.82	21.29	34.77	PASS
				RB25#25	21.85	21.32	34.77	PASS
				RB50#0	21.84	21.31	34.77	PASS
			MCH	RB1#0	22.9	22.37	34.77	PASS
				RB1#25	22.93	22.40	34.77	PASS
				RB1#49	23.03	22.50	34.77	PASS
				RB25#0	21.80	21.27	34.77	PASS
				RB25#13	21.83	21.30	34.77	PASS
				RB25#25	21.85	21.32	34.77	PASS
				RB50#0	21.82	21.29	34.77	PASS
			HCH	RB1#0	22.93	22.40	34.77	PASS
				RB1#25	23.04	22.51	34.77	PASS
				RB1#49	22.99	22.46	34.77	PASS
				RB25#0	21.80	21.27	34.77	PASS
				RB25#13	21.83	21.30	34.77	PASS
				RB25#25	21.84	21.31	34.77	PASS
				RB50#0	21.85	21.32	34.77	PASS

Note:

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

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

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 17	TM1/10M	LCH	5.33	13	PASS
		MCH	5.33	13	PASS
		HCH	5.33	13	PASS
	TM2/10M	LCH	6.09	13	PASS
		MCH	6.17	13	PASS
		HCH	6.14	13	PASS



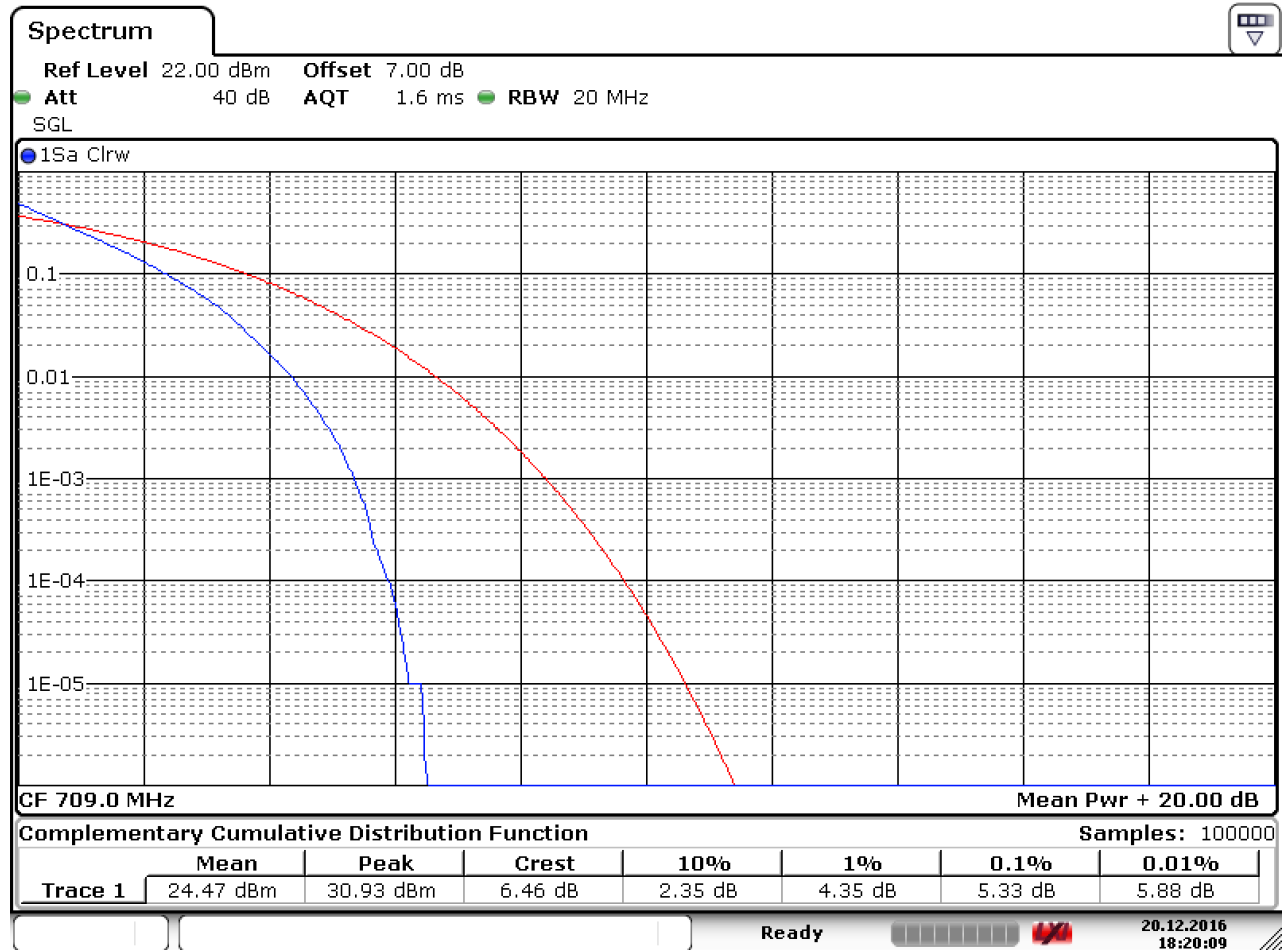
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band17

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

2.1.1.1.1 Test Channel = LCH

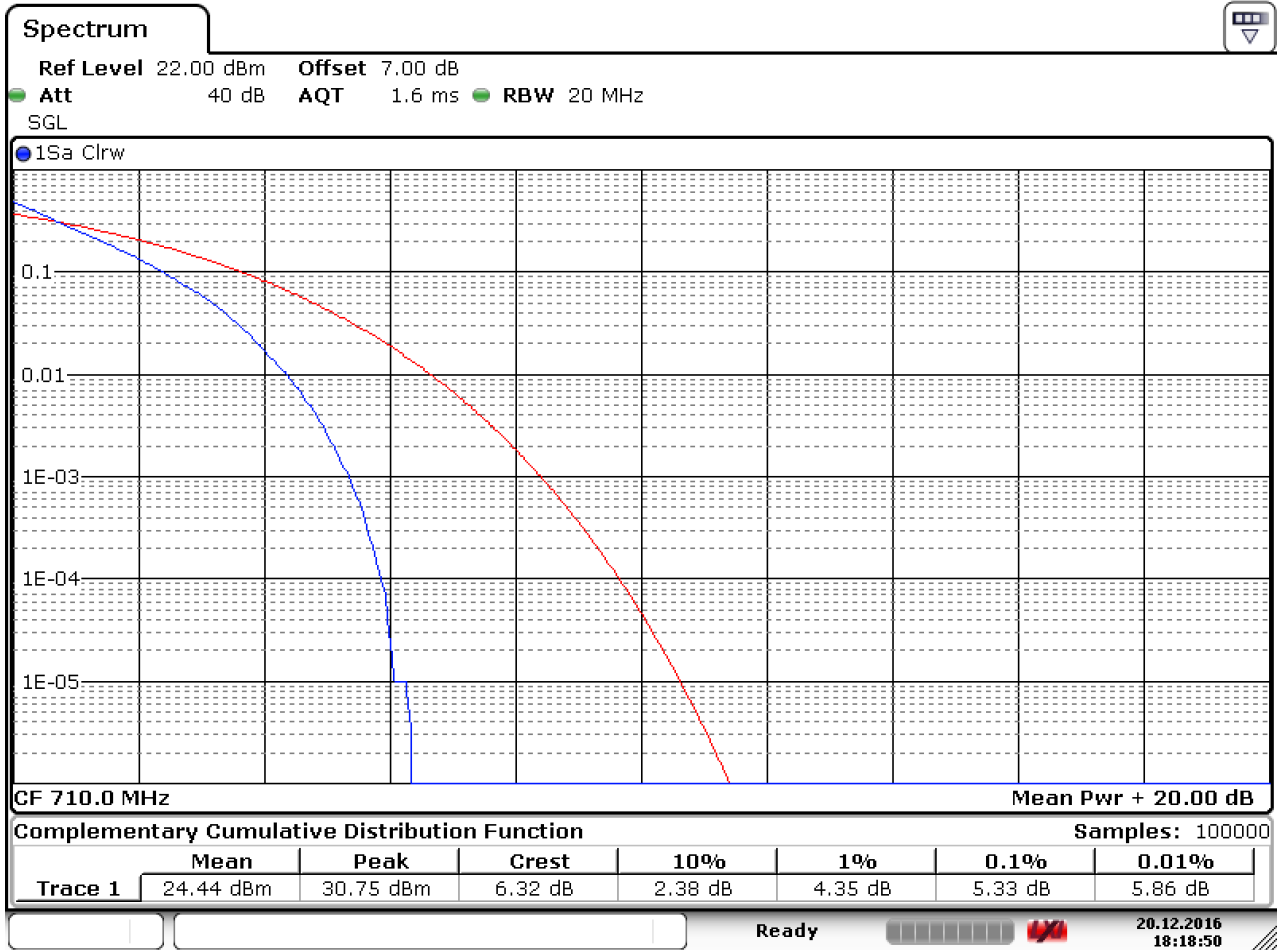


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2.1.1.1.2 Test Channel = MCH

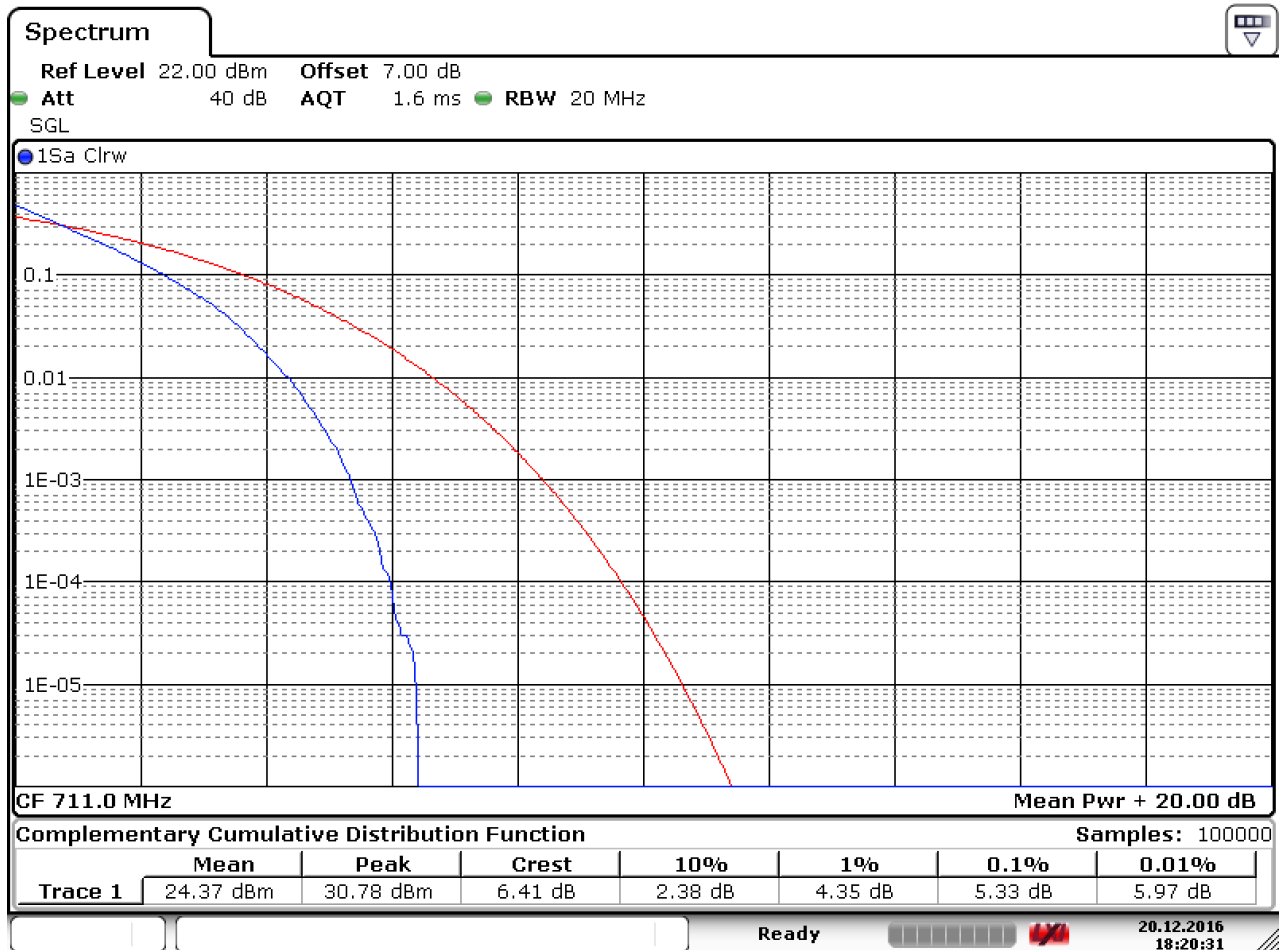


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2.1.1.1.3 Test Channel = HCH



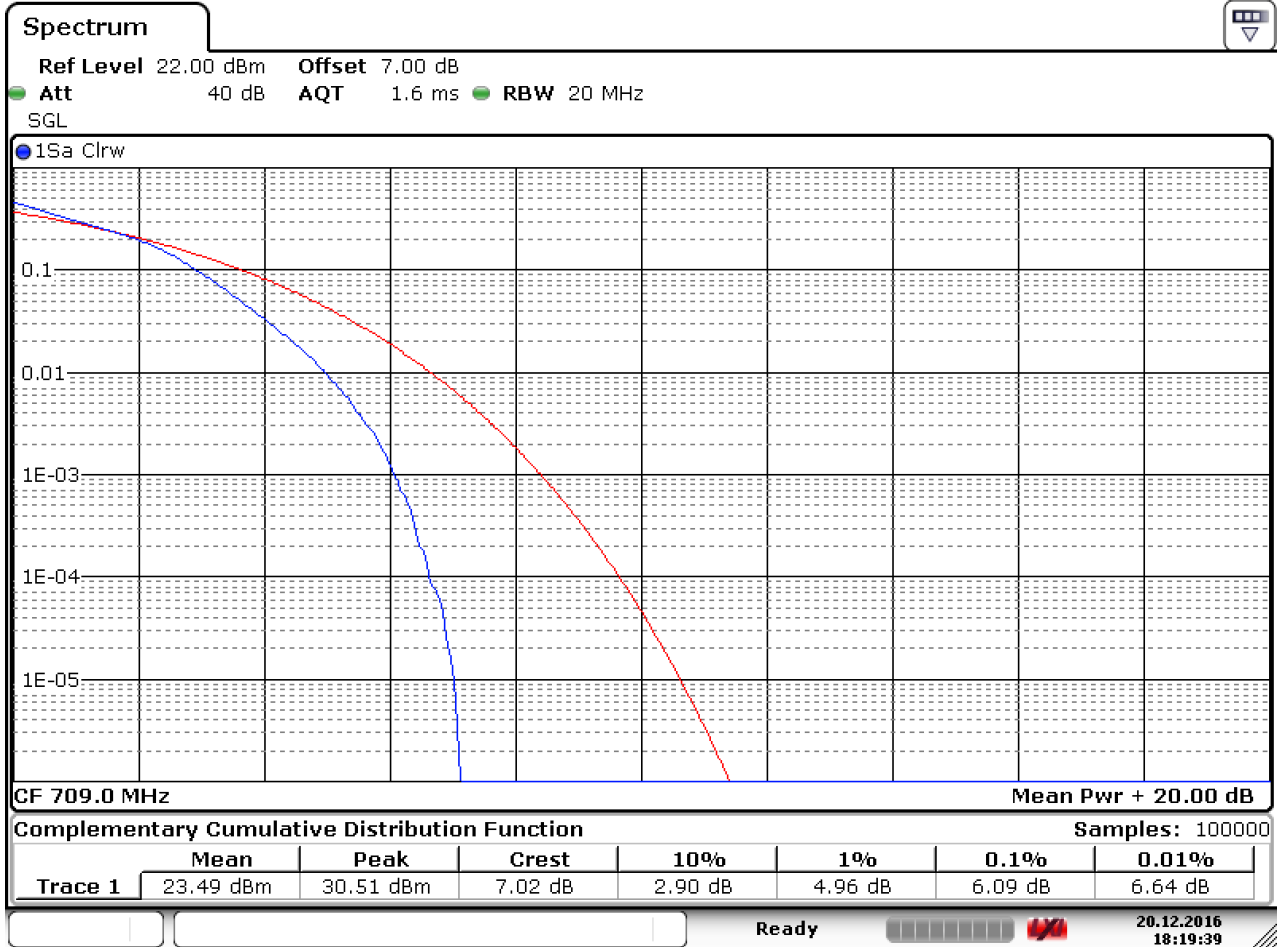
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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

2.1.1.2.1 Test Channel = LCH

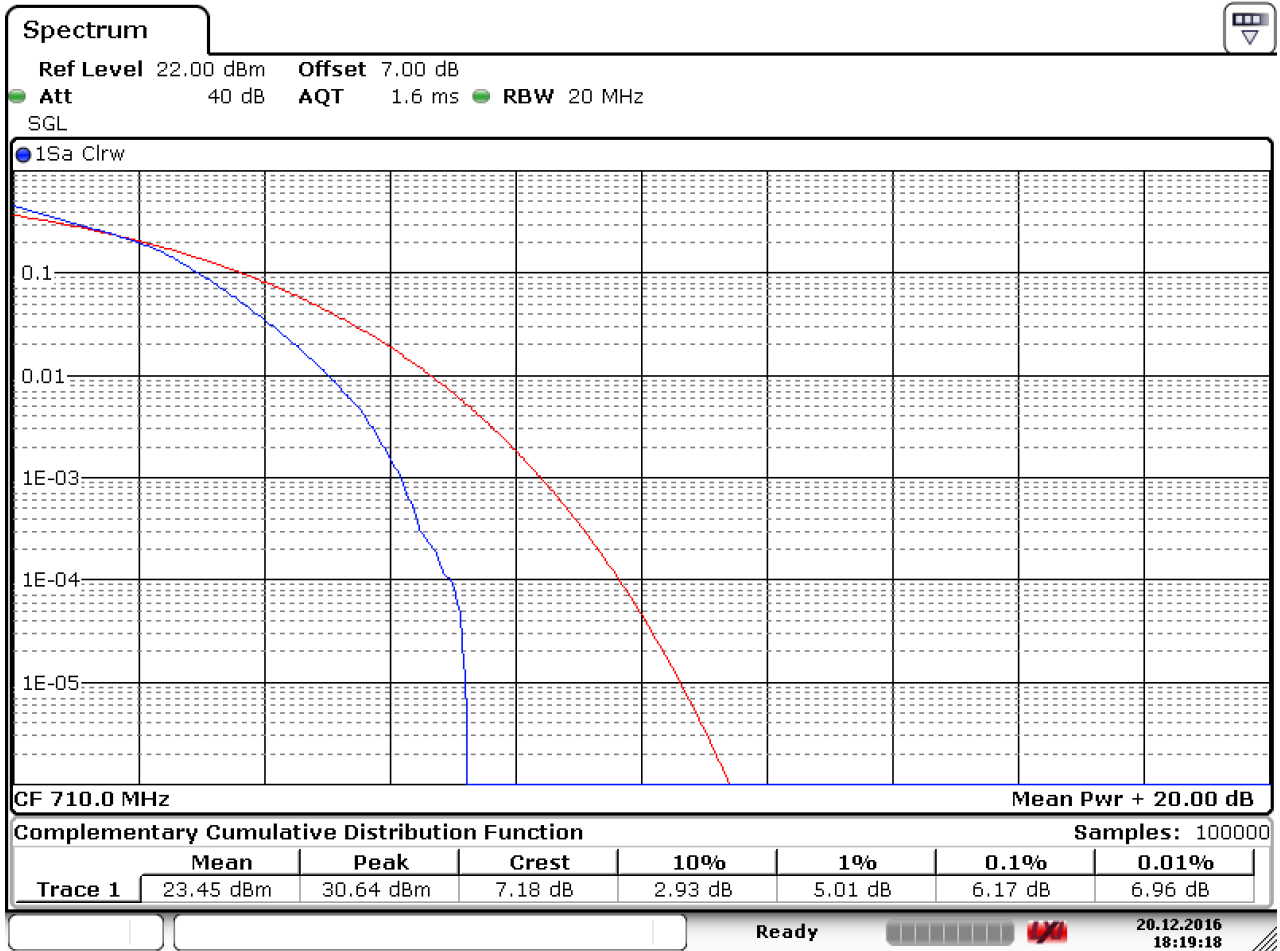


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2.1.1.2.2 Test Channel = MCH

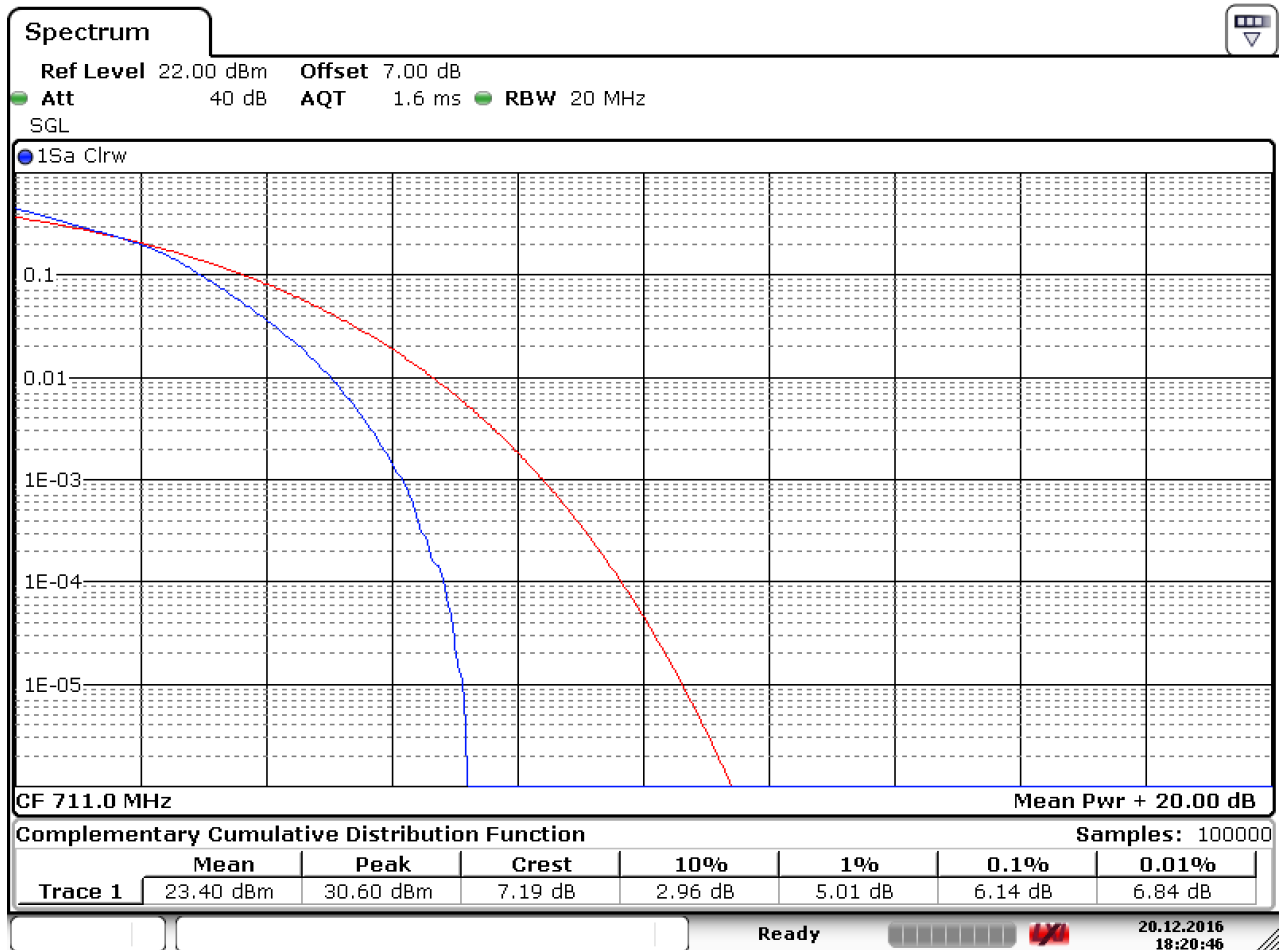


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2.1.1.2.3 Test Channel = HCH



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3 Modulation Characteristics

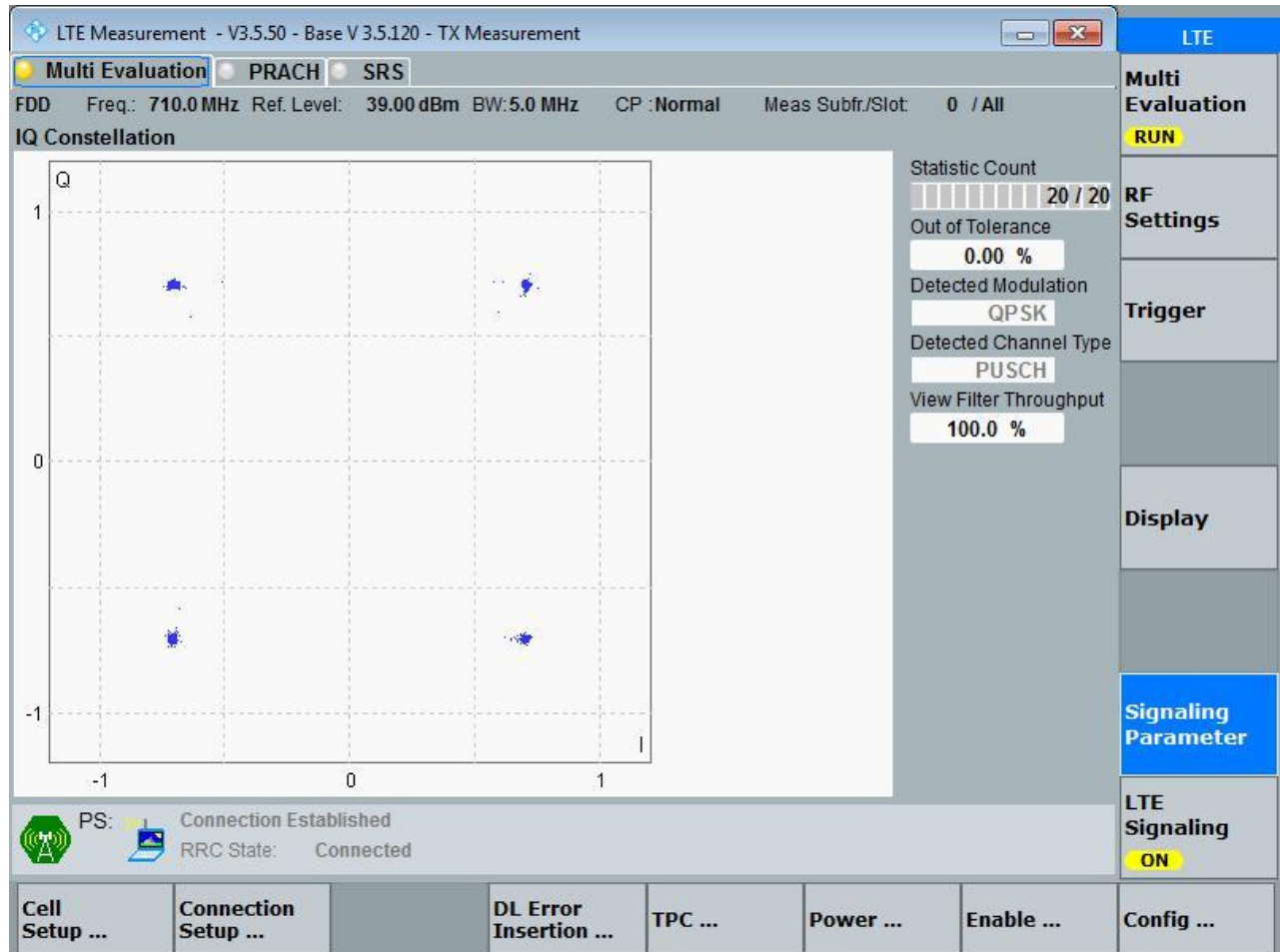
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band17

3.1.1.1 Test Mode = LTE /TM1 5MHz

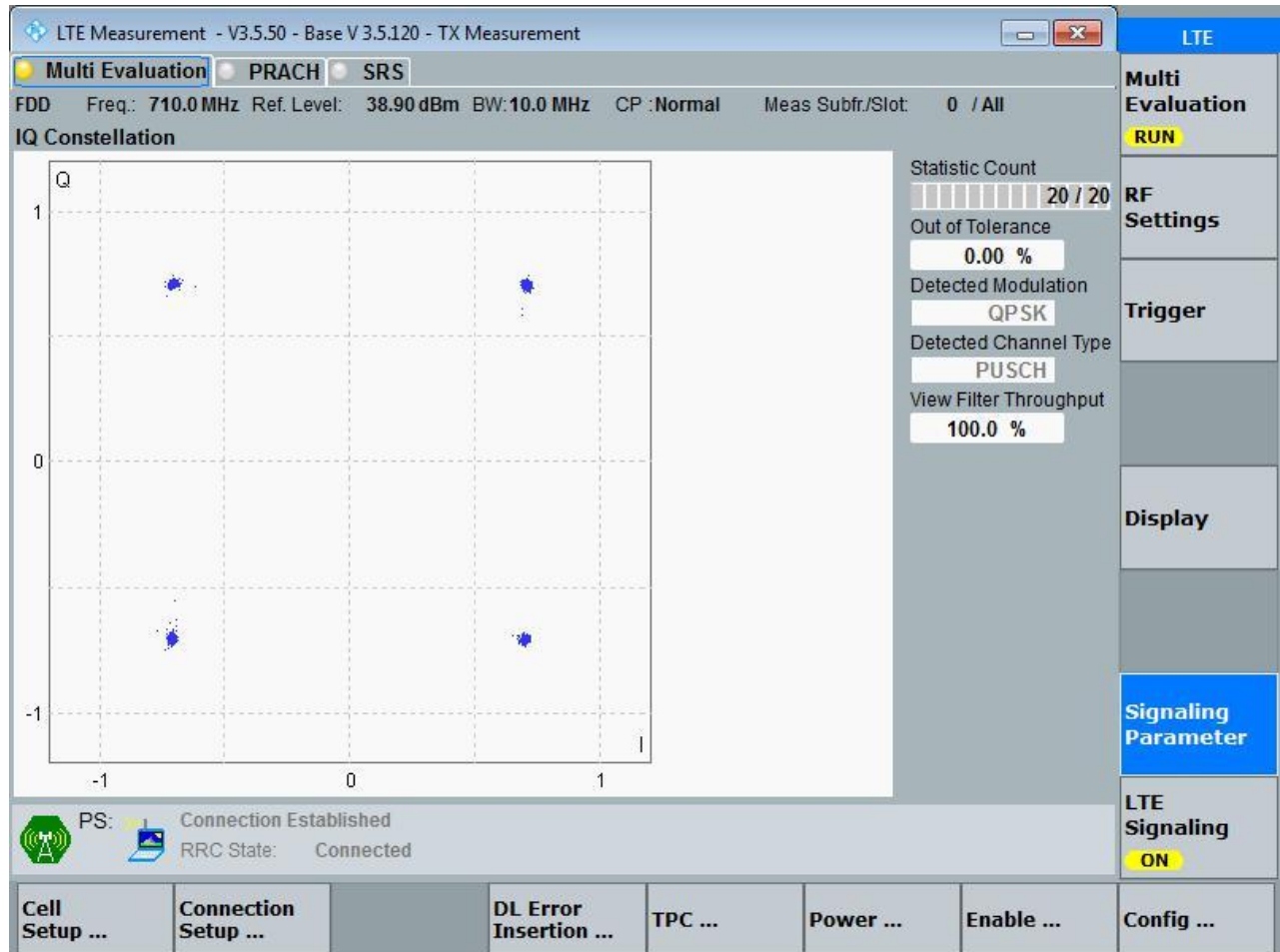
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM2 5MHz

3.1.1.3.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window is titled 'LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement'. It features a 'Multi Evaluation' tab and a 'PRACH' radio button. The status bar shows 'FDD Freq.: 710.0 MHz Ref. Level: 39.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All'. The 'IQ Constellation' plot shows a 16-QAM constellation with points clustered around the center. The right sidebar contains a 'Statistic Count' of 20/20, 'Out of Tolerance' at 0.00%, 'Detected Modulation' as 16-QAM, 'Detected Channel Type' as PUSCH, and 'View Filter Throughput' at 100.0%. The bottom status bar indicates 'PS: Connection Established' and 'RRC State: Connected'. The bottom navigation bar includes buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.4 Test Mode = LTE /TM2 10MHz

3.1.1.4.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" sub-tab. The status bar shows "FDD Freq.: 710.0 MHz Ref. Level: 38.90 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All".

The central part of the interface is an "IQ Constellation" plot. The vertical axis is labeled "Q" and ranges from -1 to 1. The horizontal axis is labeled "I" and ranges from -1 to 1. The plot shows a grid of points, with blue dots representing the measured data points, which are clustered around the expected 16-QAM constellation points.

On the right side of the plot, there is a "Statistic Count" section with a progress bar showing "20 / 20". Below this, the "Out of Tolerance" is set to "0.00 %". The "Detected Modulation" is "16-QAM" and the "Detected Channel Type" is "PUSCH". The "View Filter Throughput" is set to "100.0 %".

At the bottom of the interface, there is a status bar showing "PS: Connection Established" and "RRC State: Connected". Below this, there are several buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

On the far right, there is a vertical sidebar with several buttons: "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", "LTE Signaling", and "ON".

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4 Bandwidth

Part I - Test Results

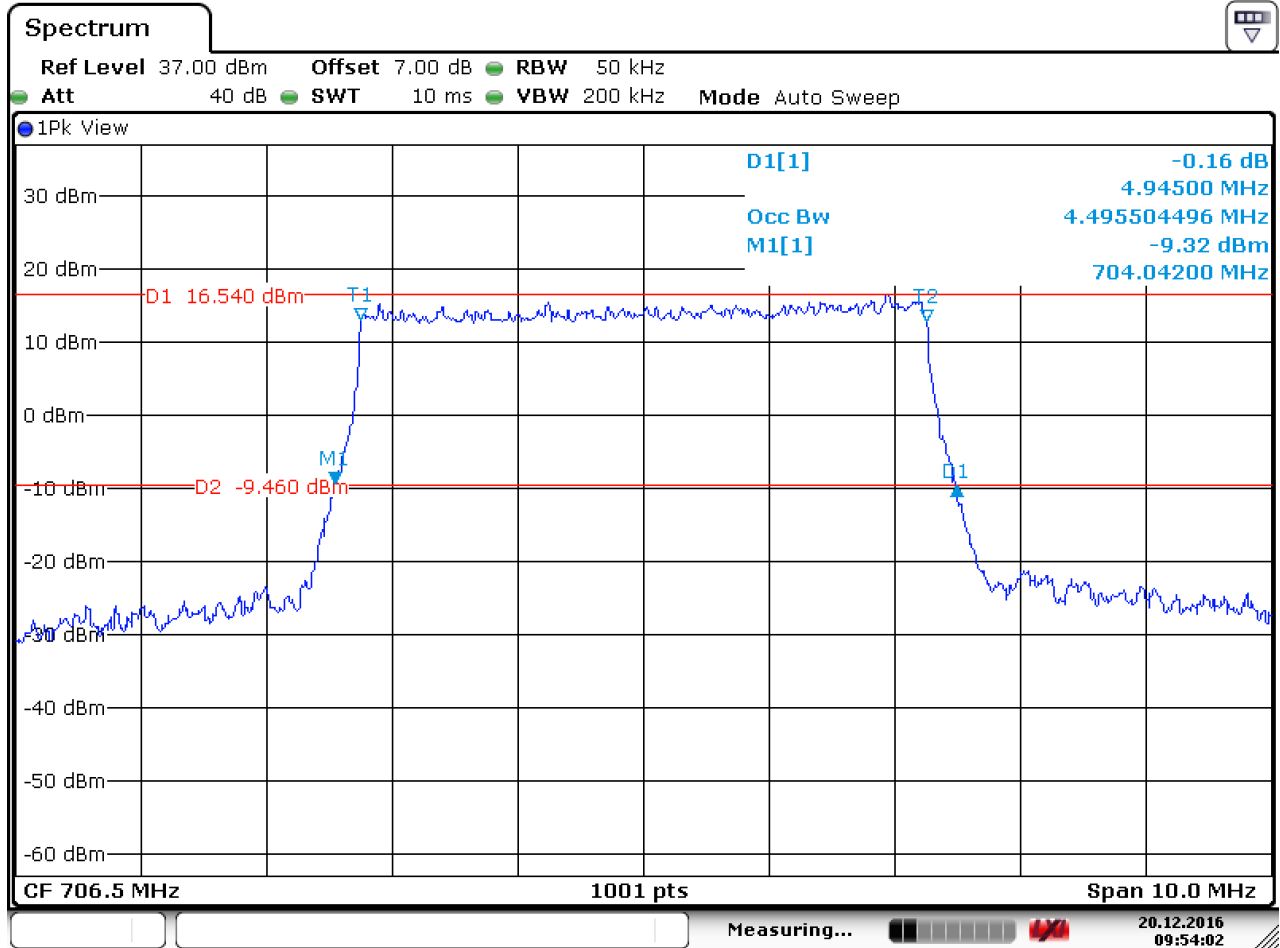
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 17	TM1/ 5MHz	LCH	4.50	4.95	PASS
		MCH	4.49	4.98	PASS
		HCH	4.48	4.97	PASS
	TM2/ 5MHz	LCH	4.49	4.97	PASS
		MCH	4.48	4.90	PASS
		HCH	4.50	5.00	PASS
	TM1/10MHz	LCH	8.93	9.68	PASS
		MCH	8.93	9.74	PASS
		HCH	8.93	9.76	PASS
	TM2/ 10MHz	LCH	8.93	9.70	PASS
		MCH	8.93	9.66	PASS
		HCH	8.95	9.72	PASS

4.1 For LTE

4.1.1 Test Band = LTE band17

4.1.1.1 Test Mode = LTE/TM1 5MHz

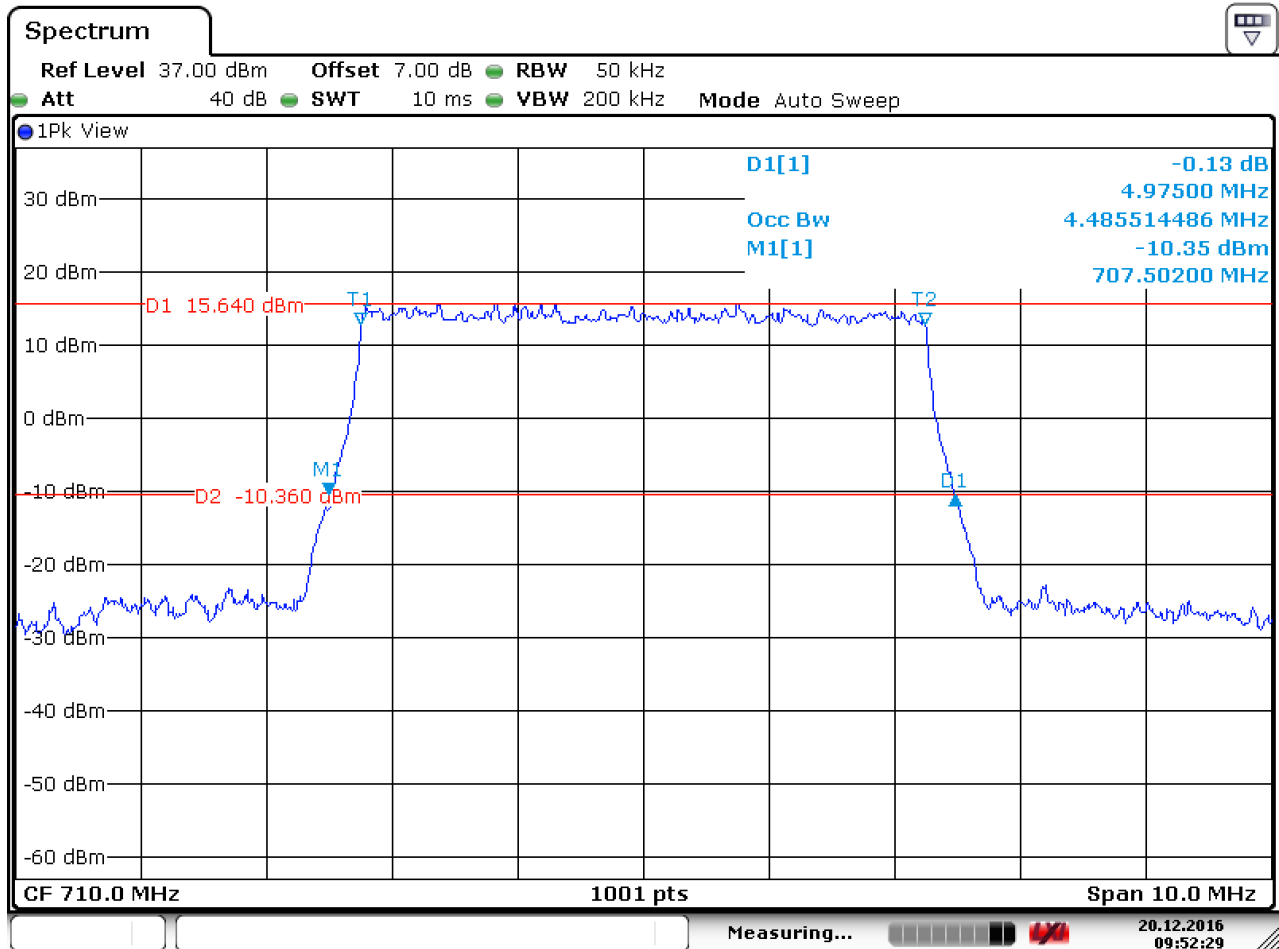
4.1.1.1.1 Test Channel = LCH



Date: 20.DEC.2016 09:54:02



4.1.1.1.2 Test Channel = MCH

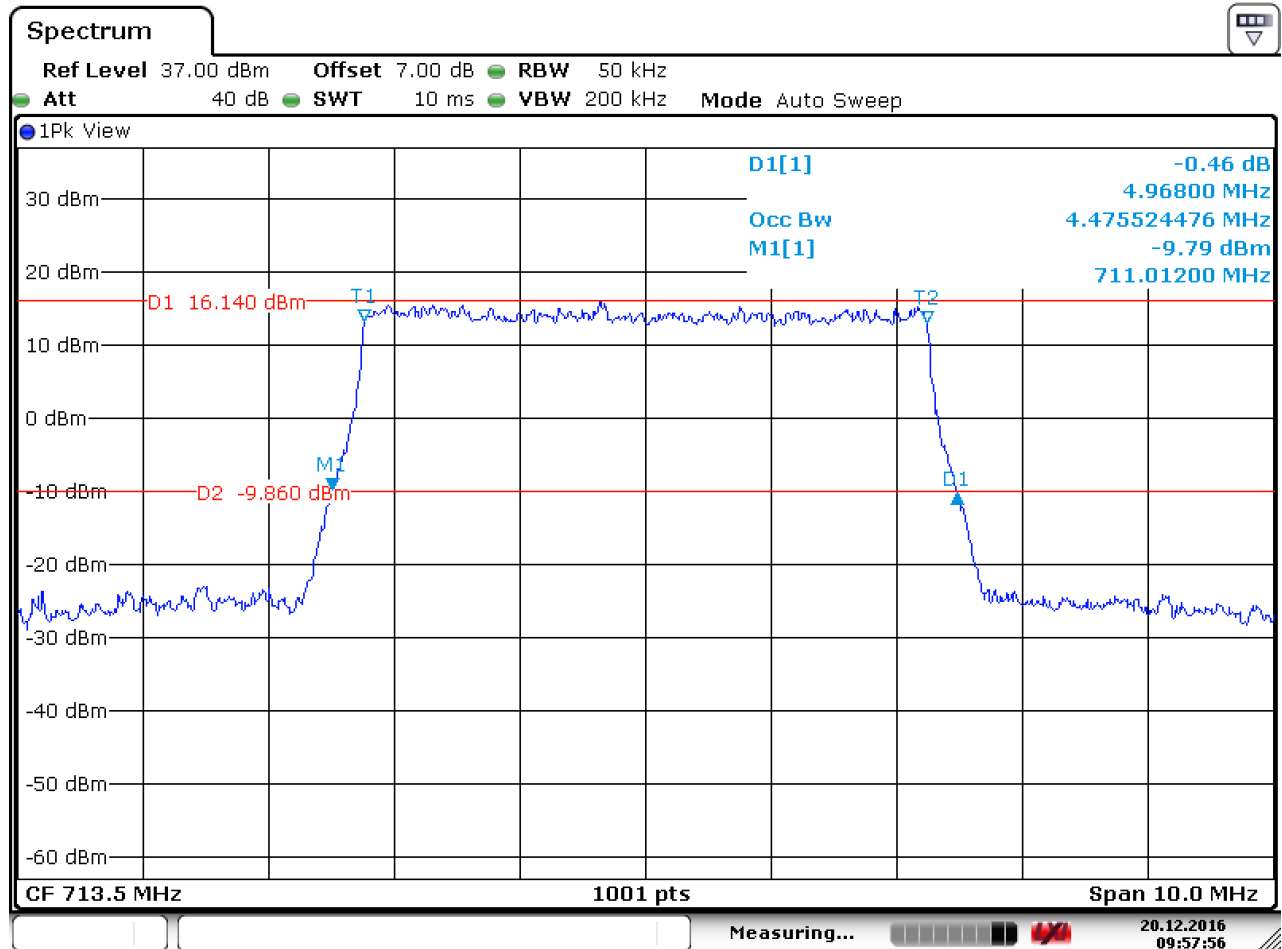


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4.1.1.1.3 Test Channel = HCH



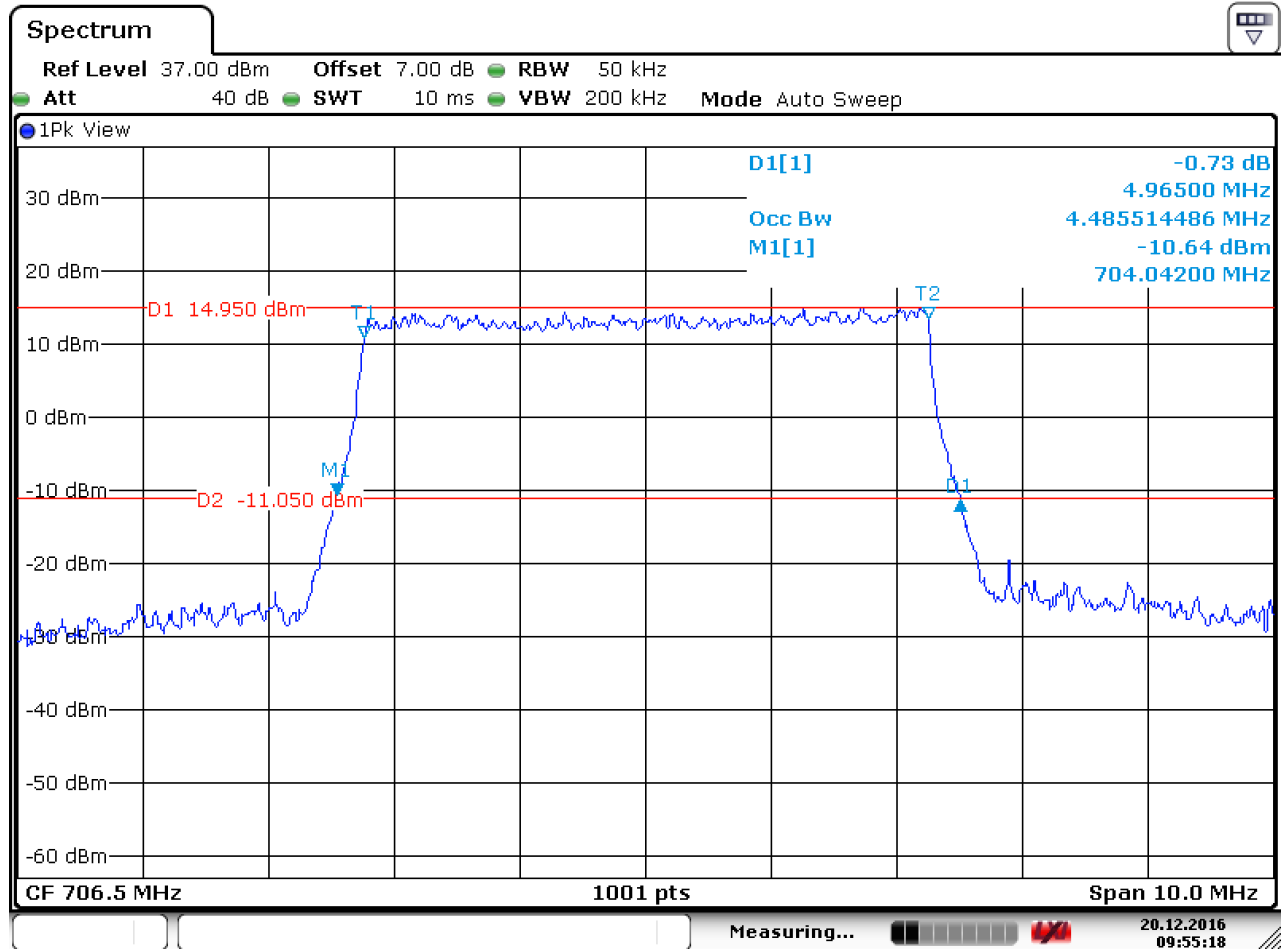
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4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

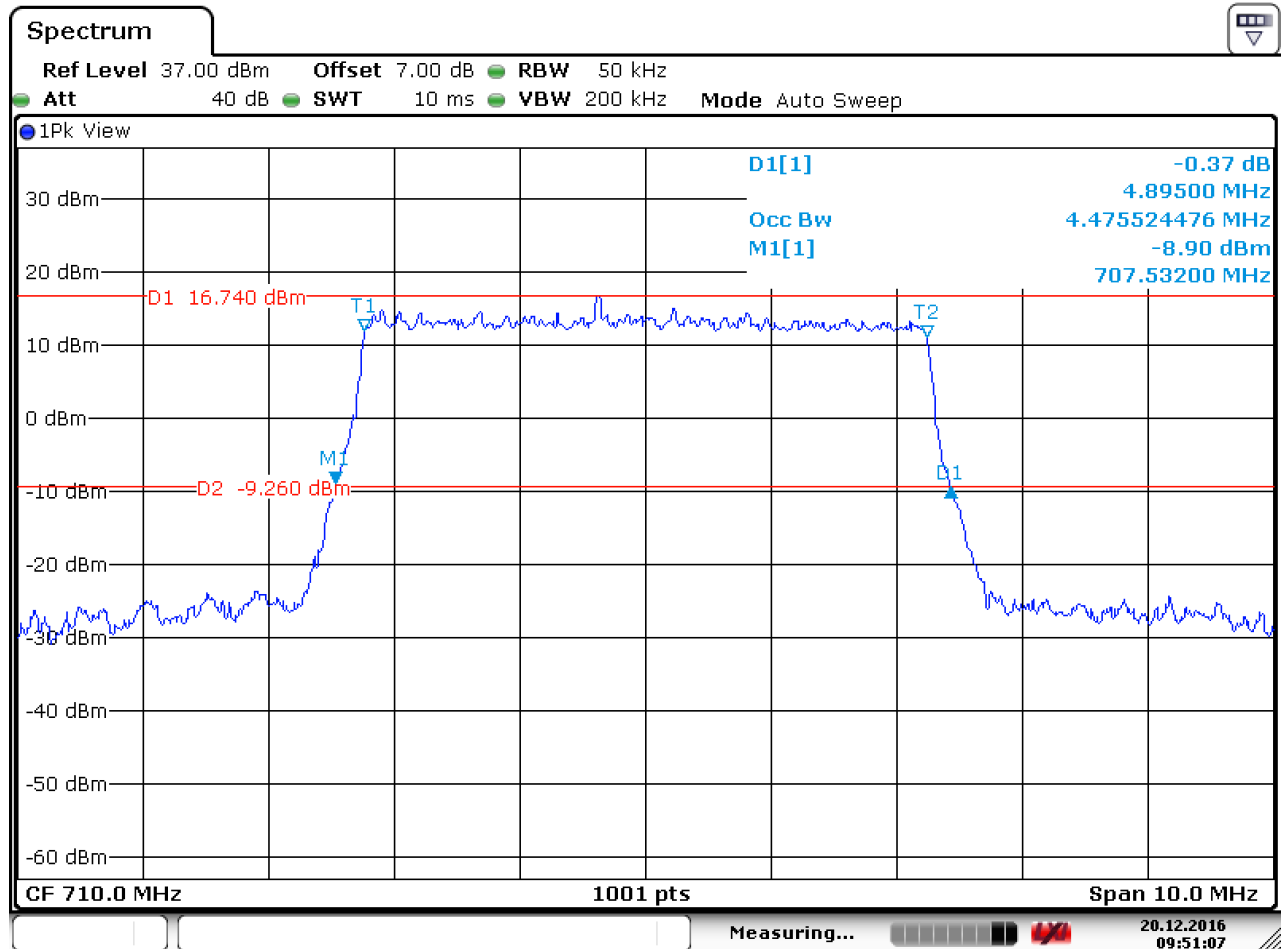


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4.1.1.2.2 Test Channel = MCH

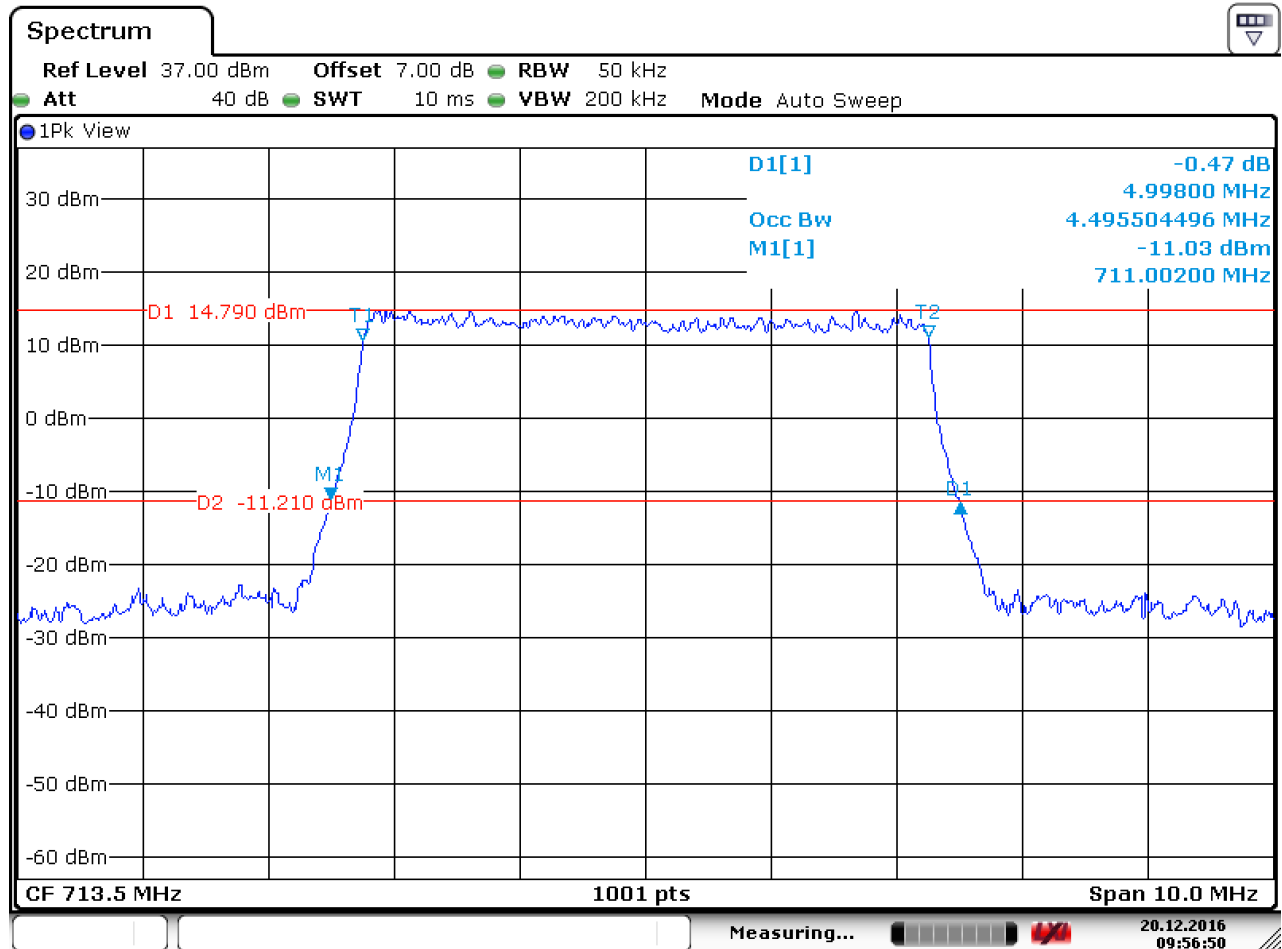


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4.1.1.2.3 Test Channel = HCH



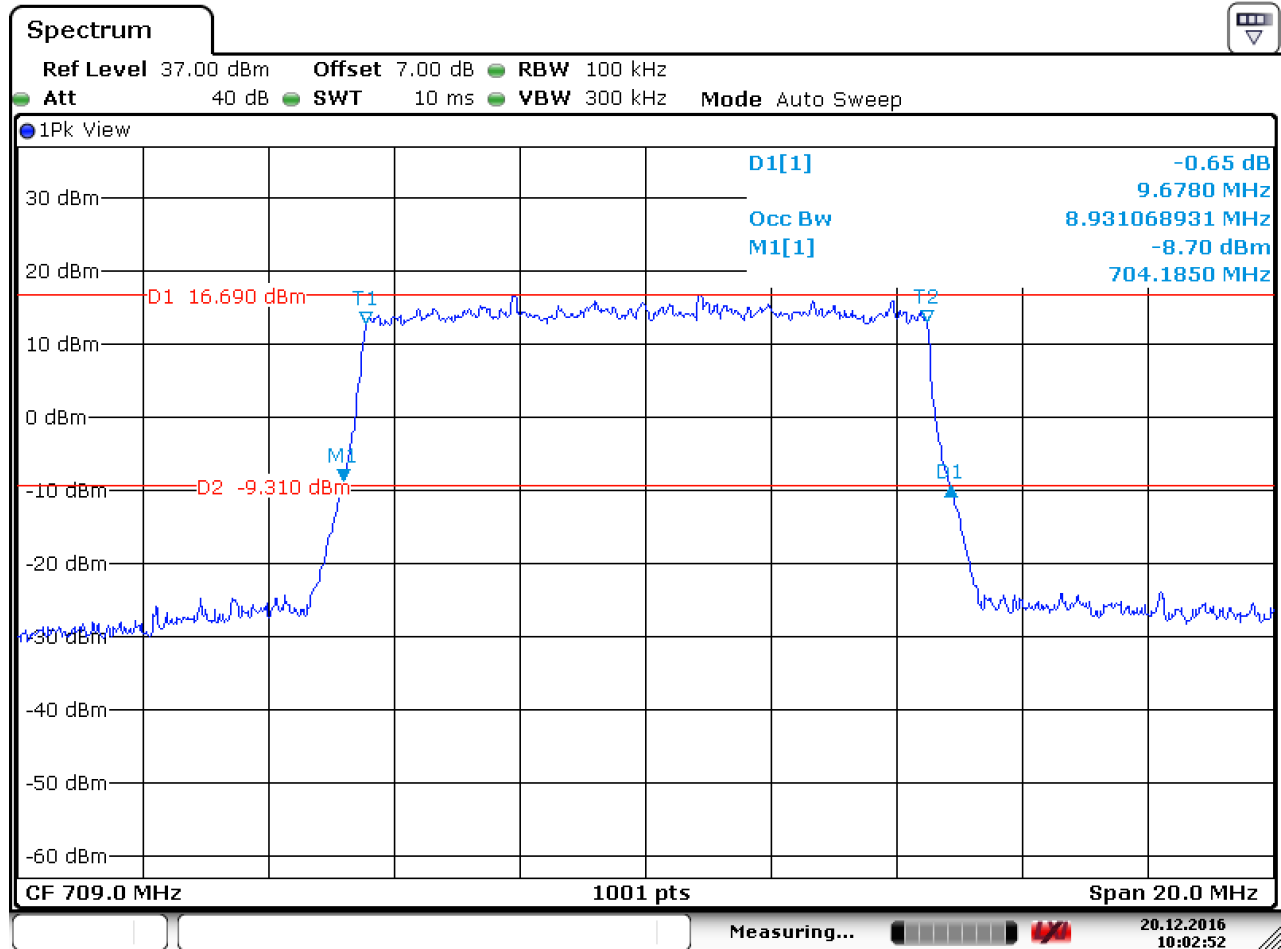
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4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH

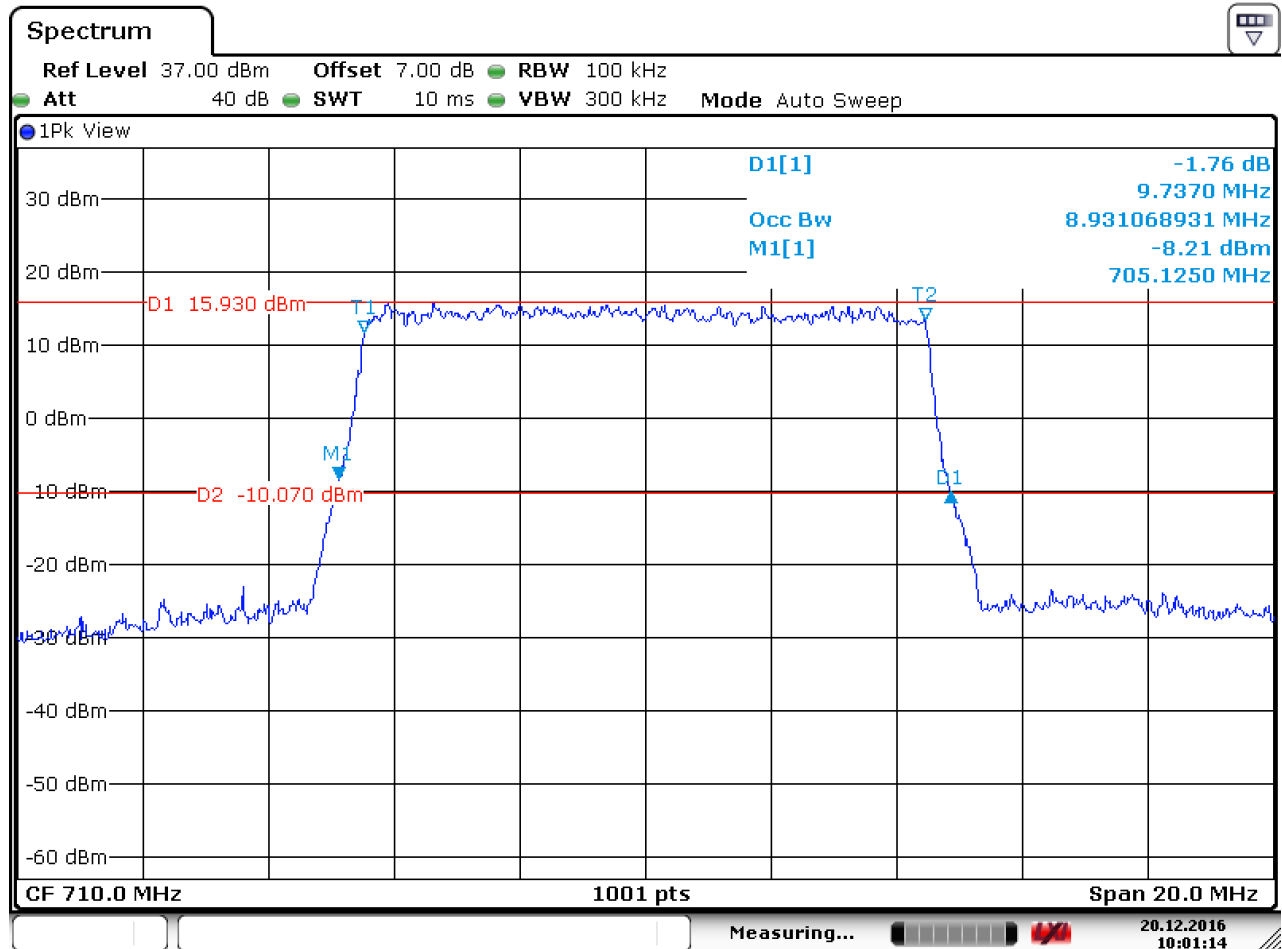


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4.1.1.3.2 Test Channel = MCH

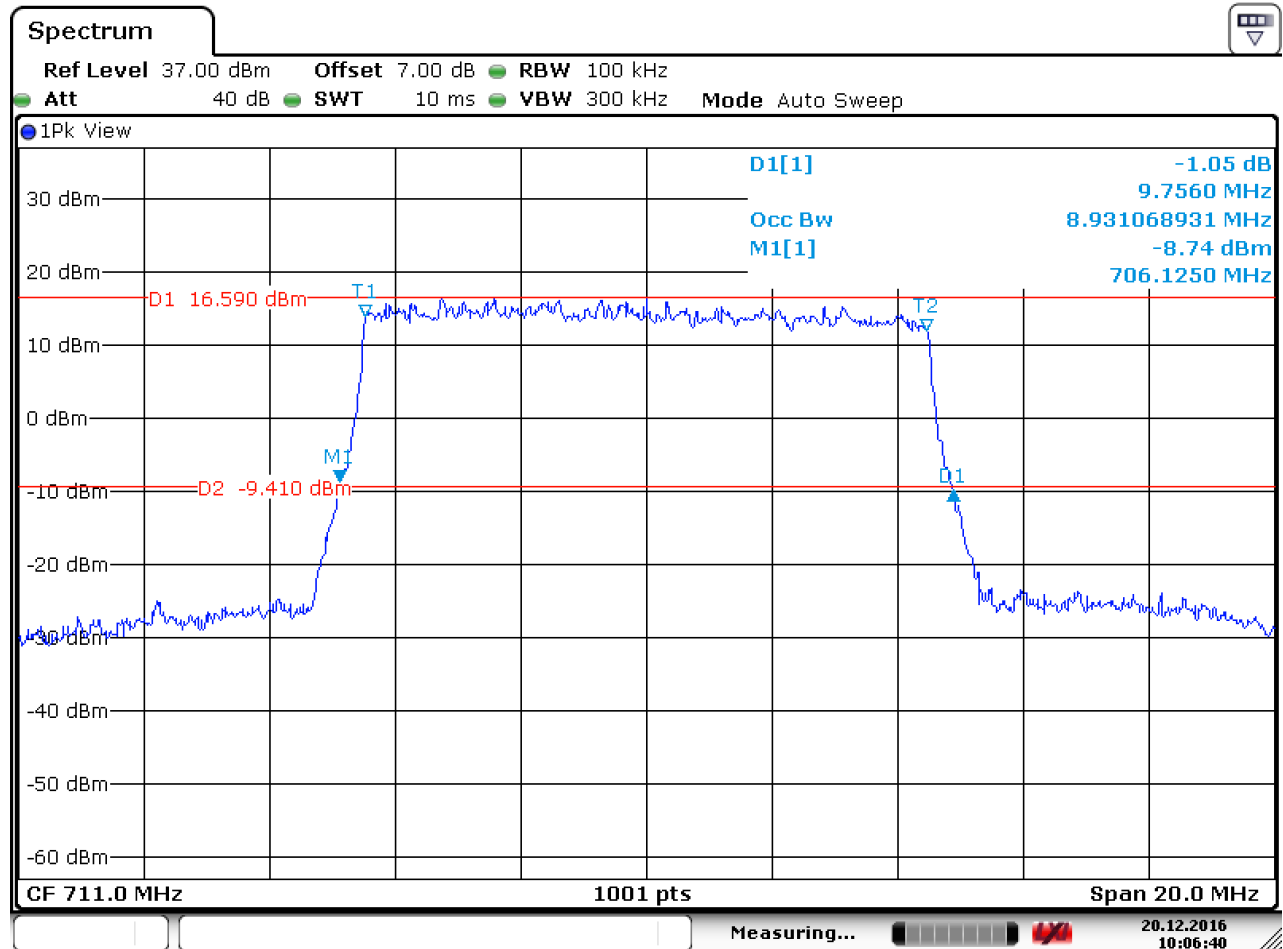


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4.1.1.3.3 Test Channel = HCH



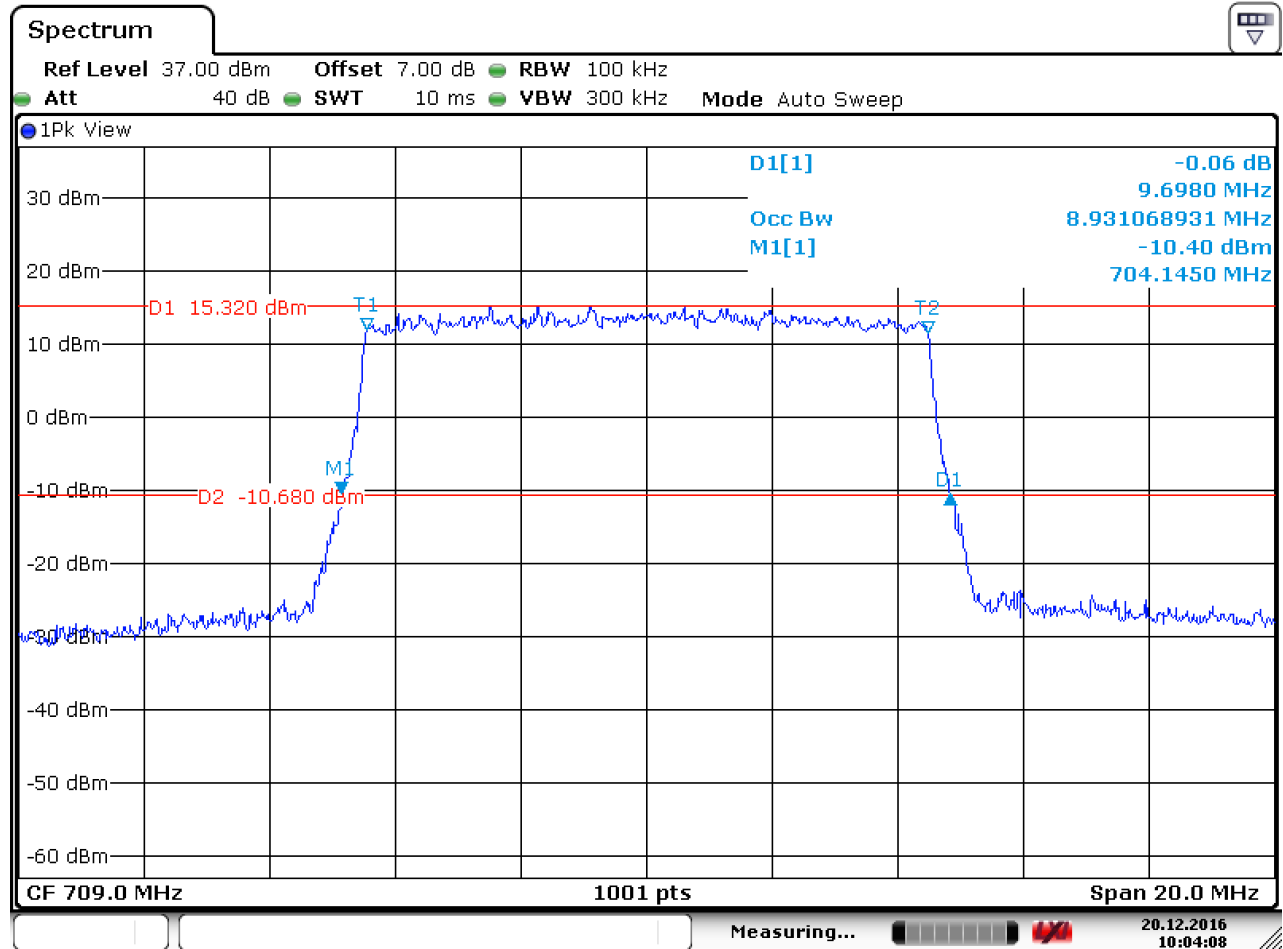
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4.1.1.4 Test Mode = LTE/TM2 10MHz

4.1.1.4.1 Test Channel = LCH

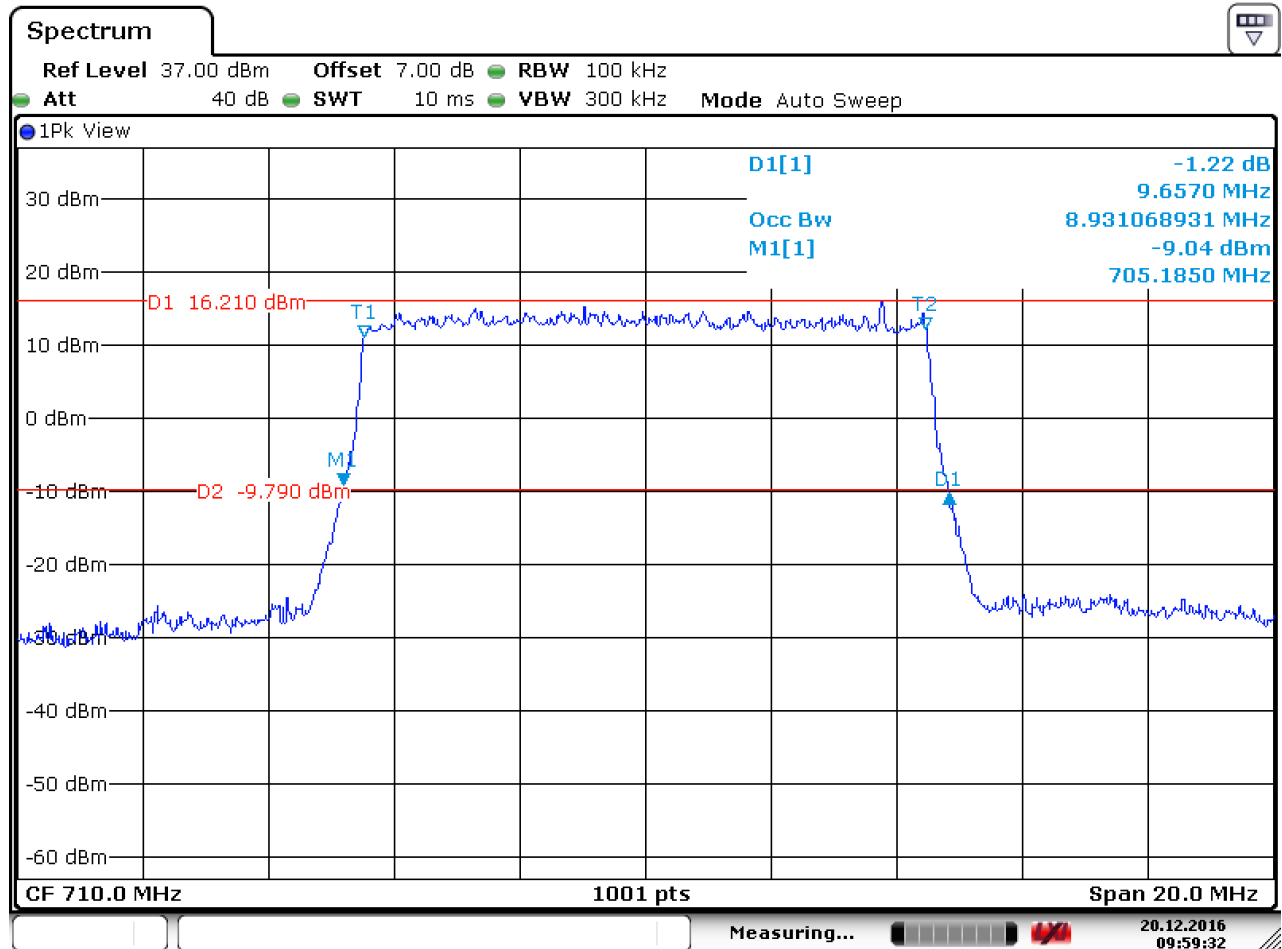


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4.1.1.4.2 Test Channel = MCH

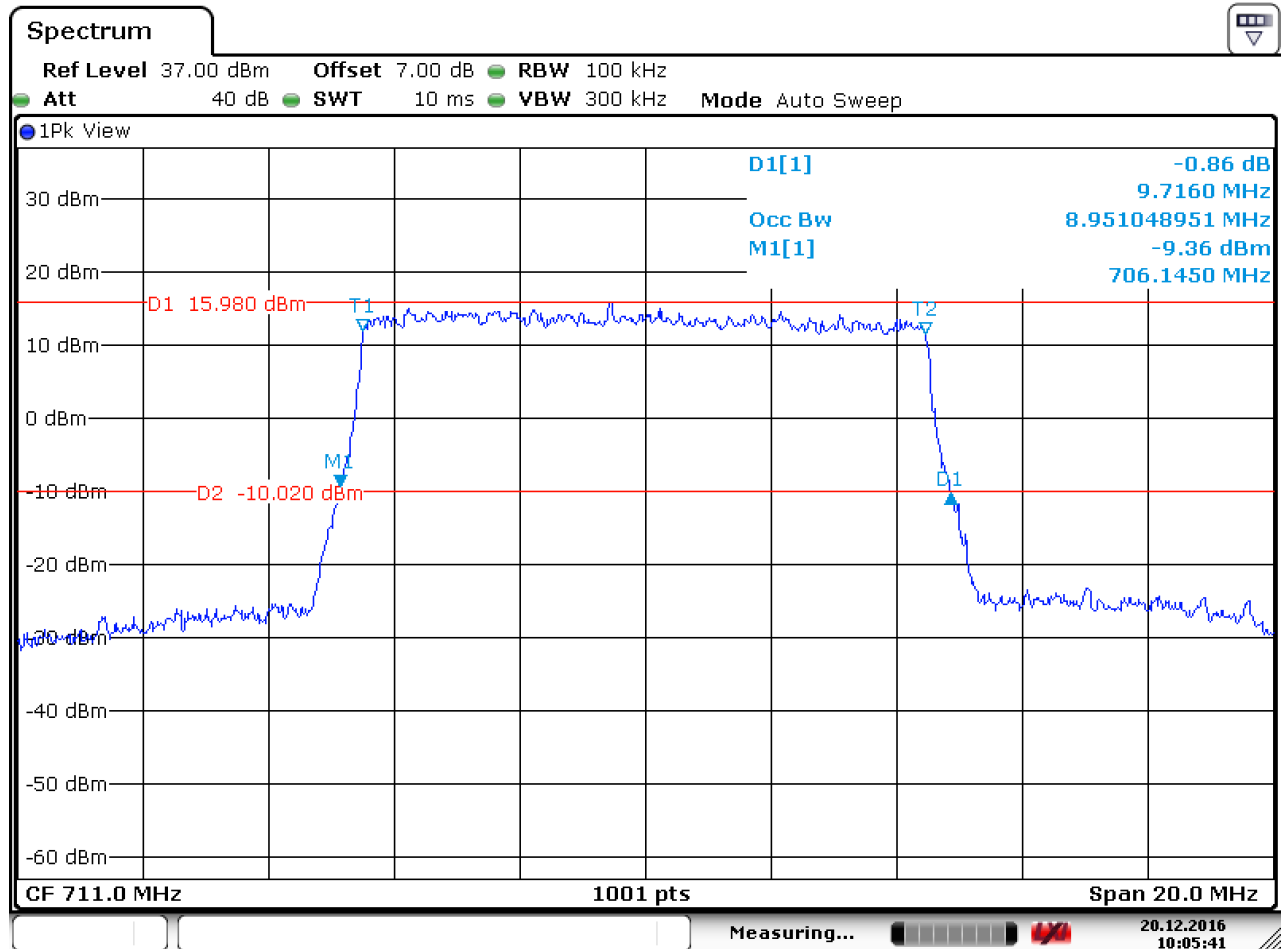


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4.1.1.4.3 Test Channel = HCH



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5 Band Edges Compliance

Part I –

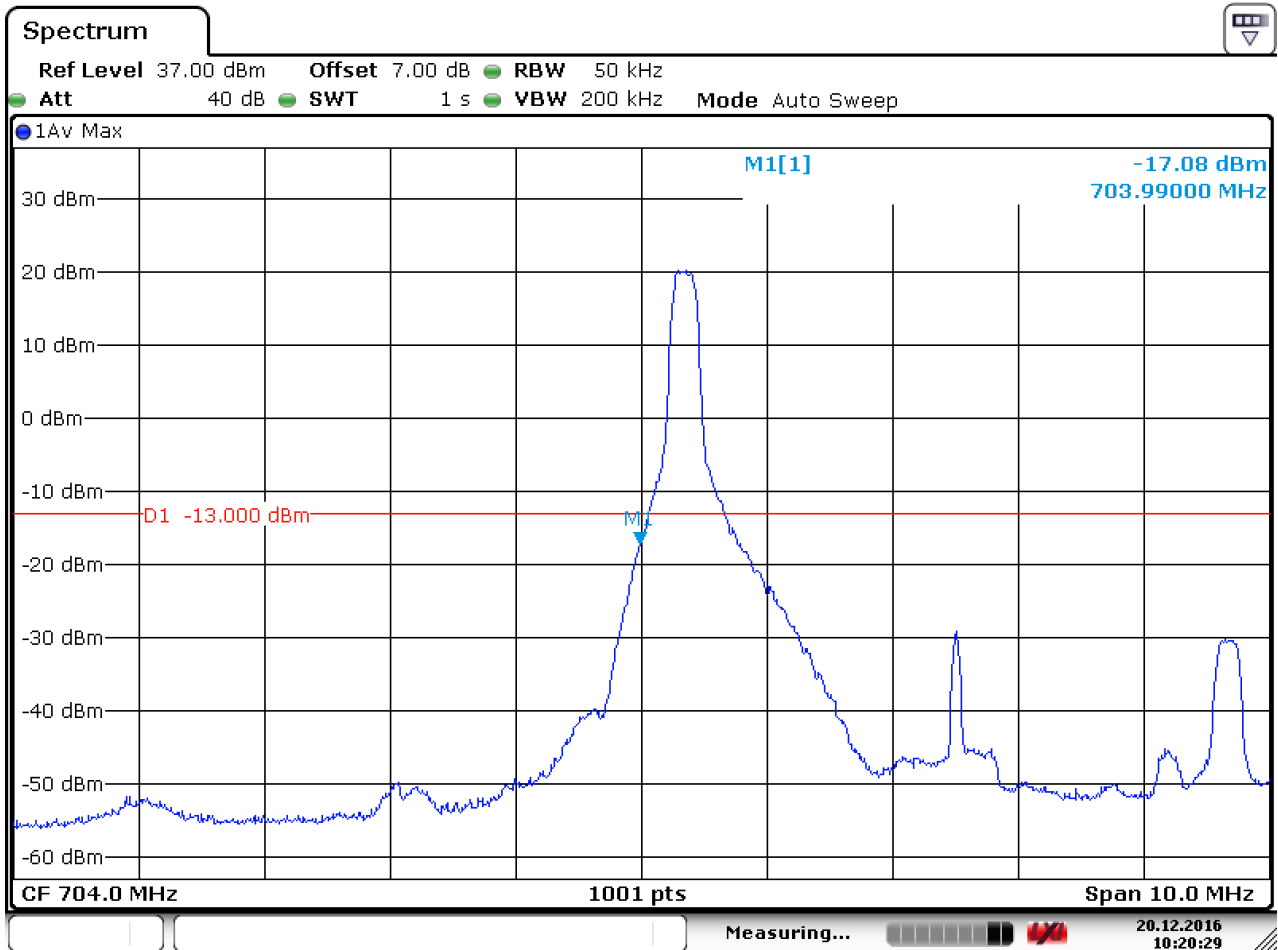
5.1 For LTE

5.1.1 Test Band = LTE band17

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

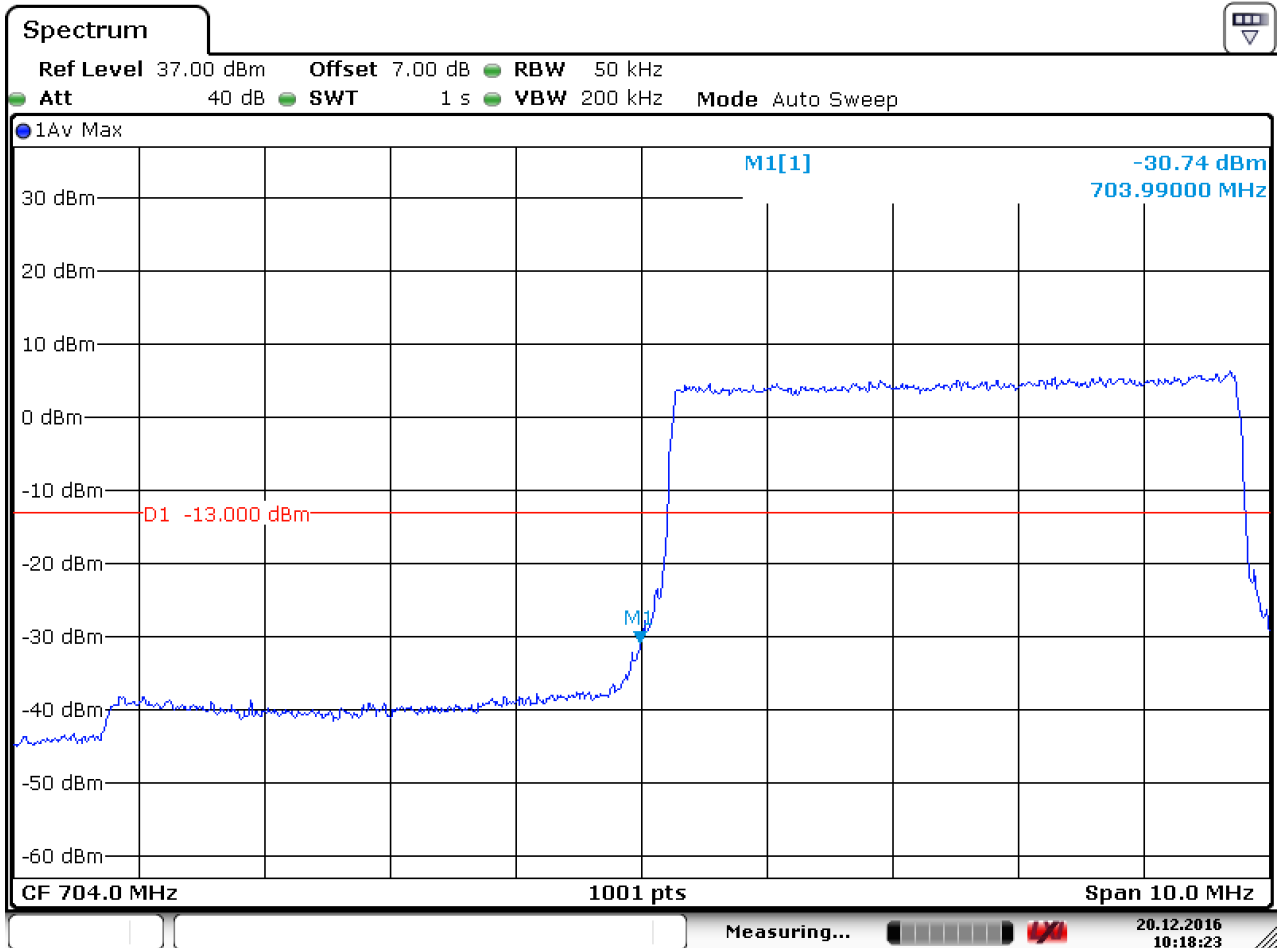
5.1.1.1.1.1 Test RB=1RB



Date: 20.DEC.2016 10:20:29



5.1.1.1.2 Test RB=25RB



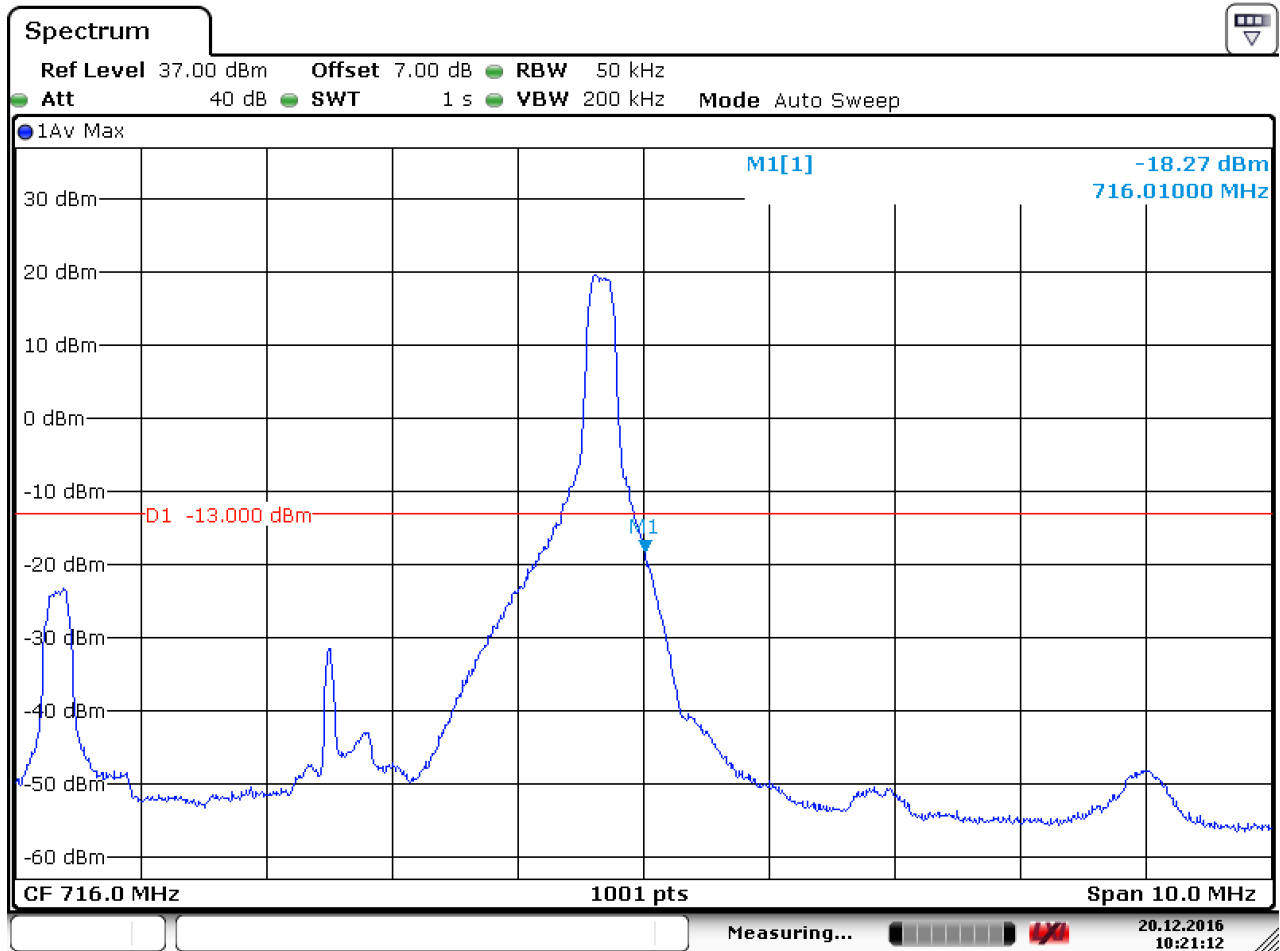
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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

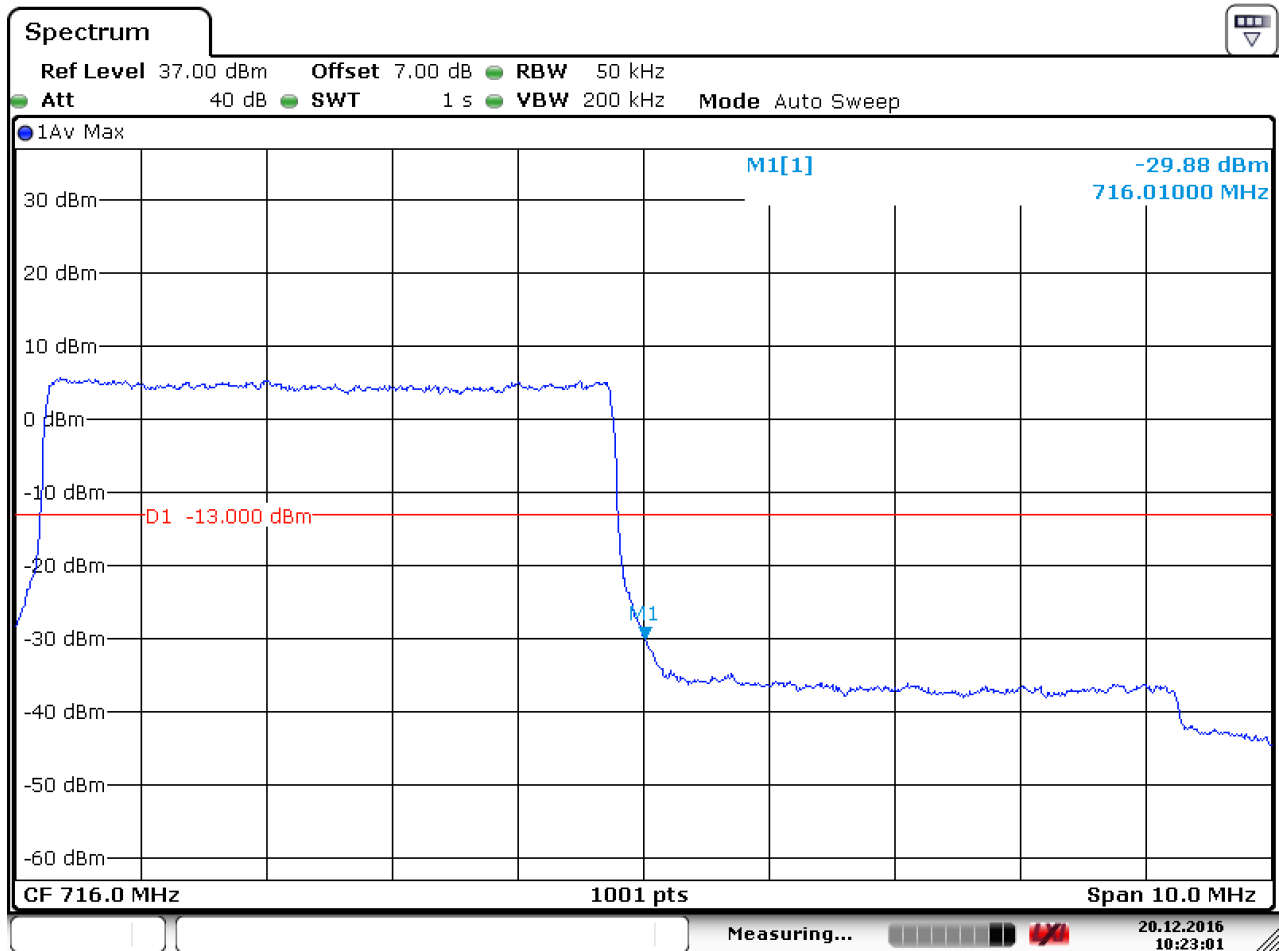


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5.1.1.1.2.2 Test RB=25RB



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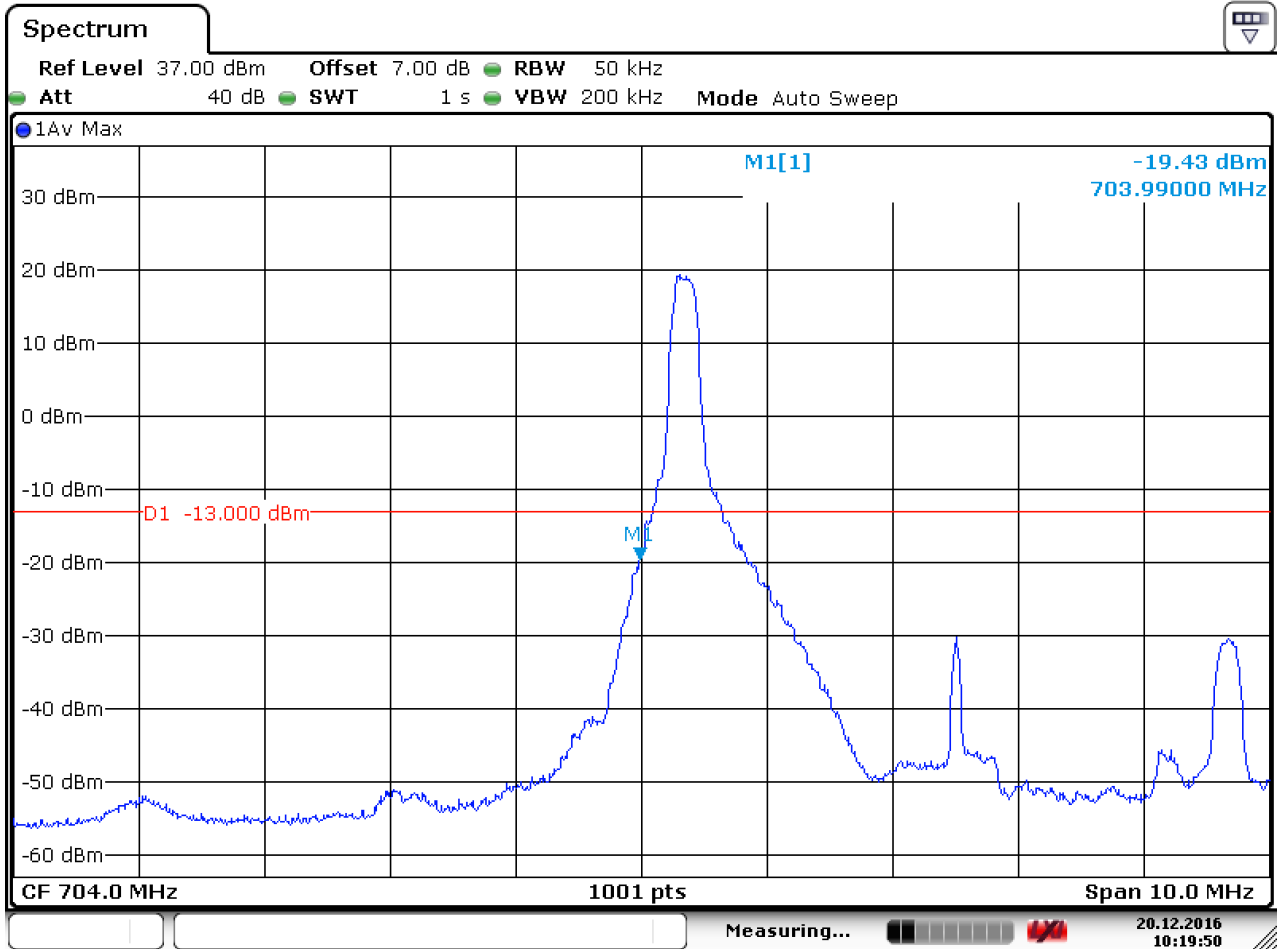
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

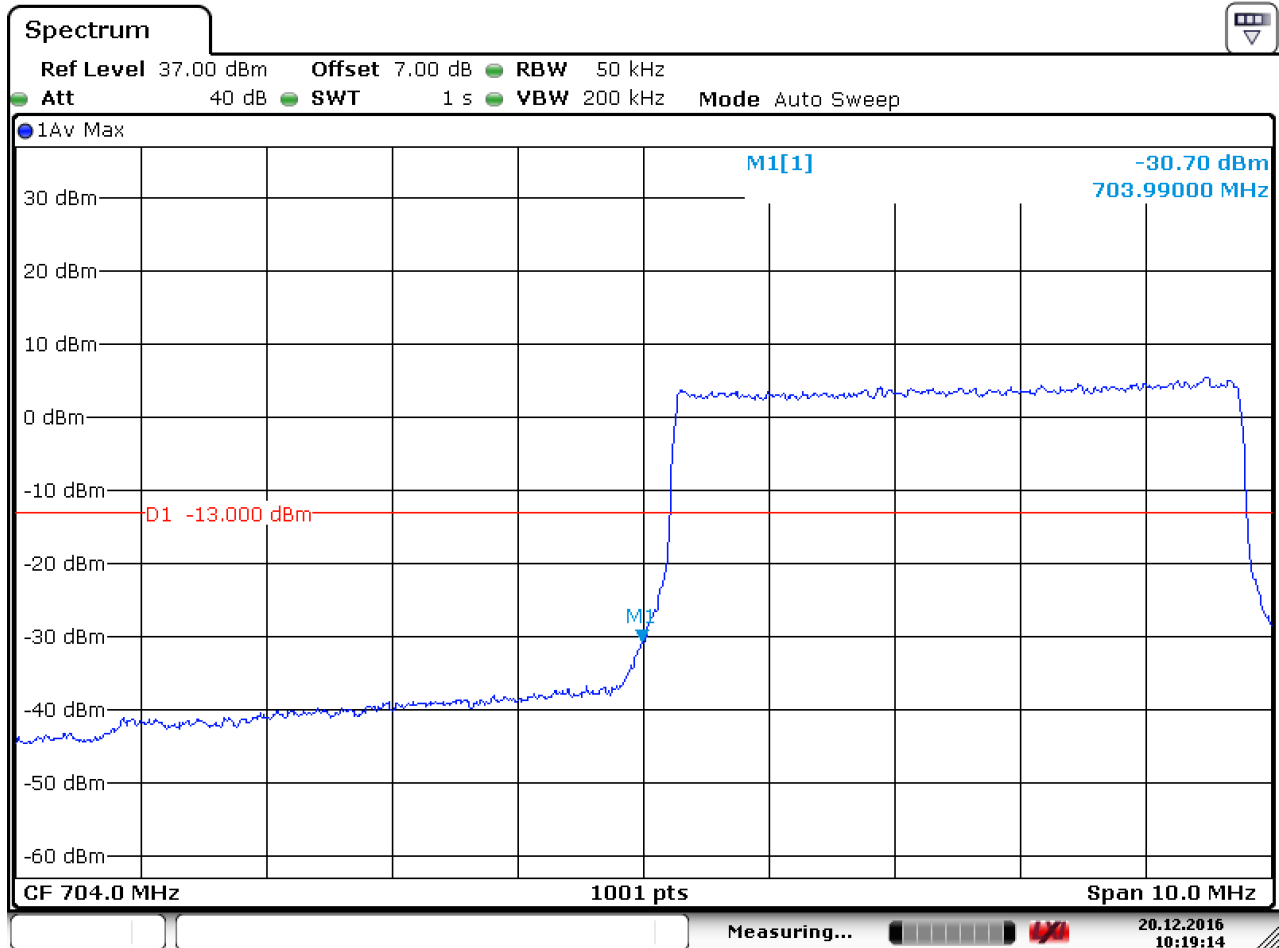


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5.1.1.2.1.2 Test RB=25RB



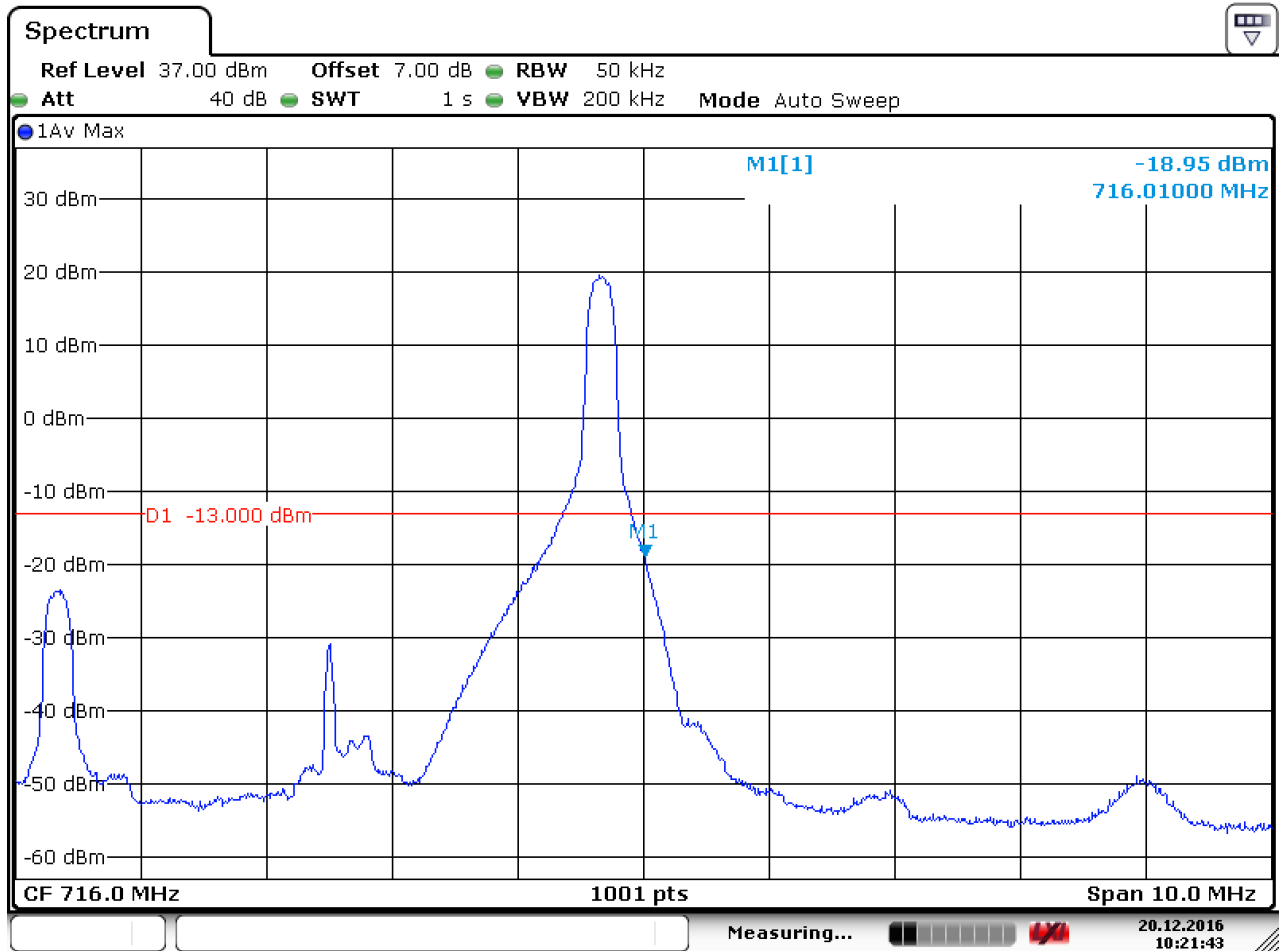
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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

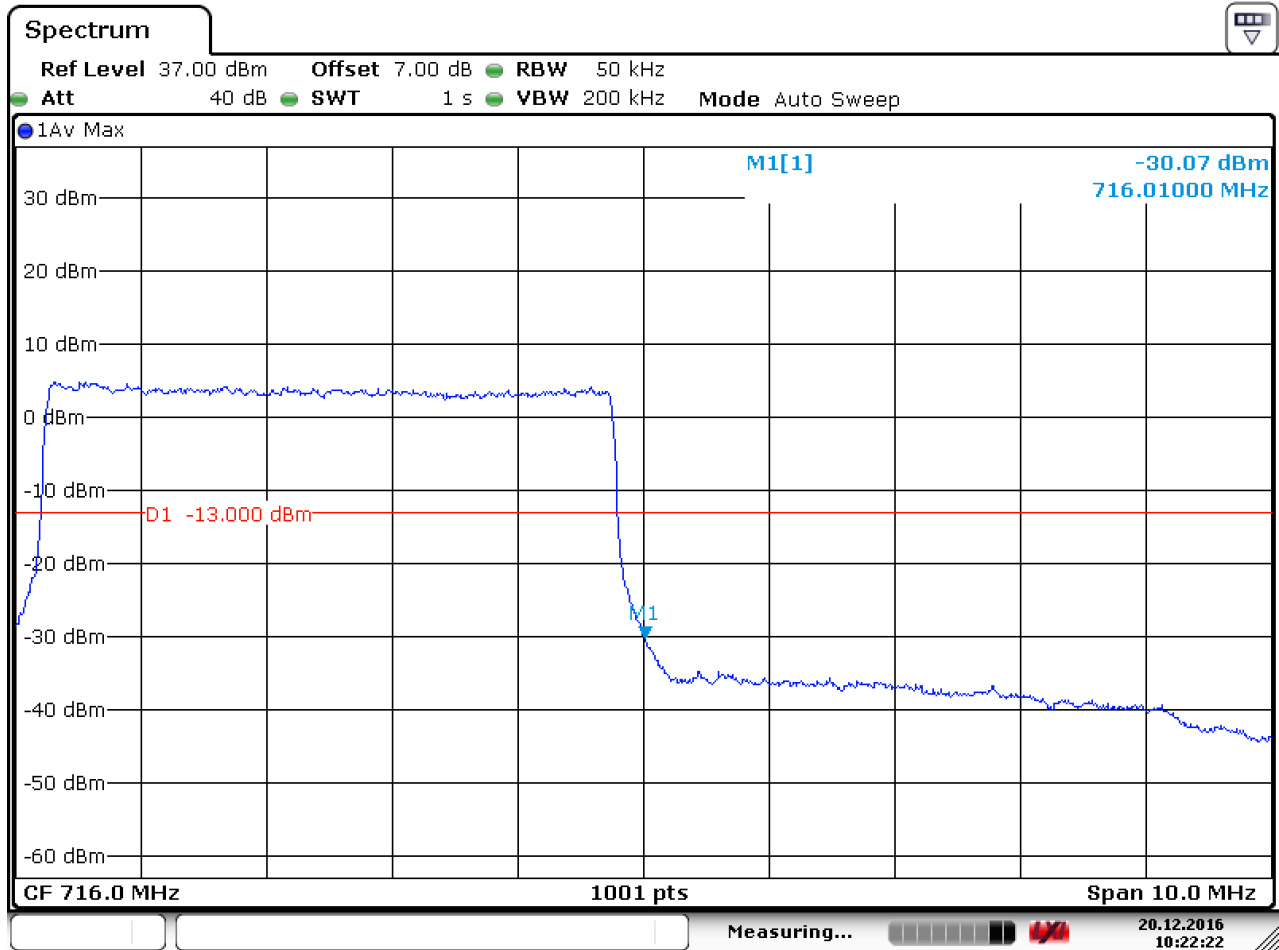


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5.1.1.2.2.2 Test RB=25RB



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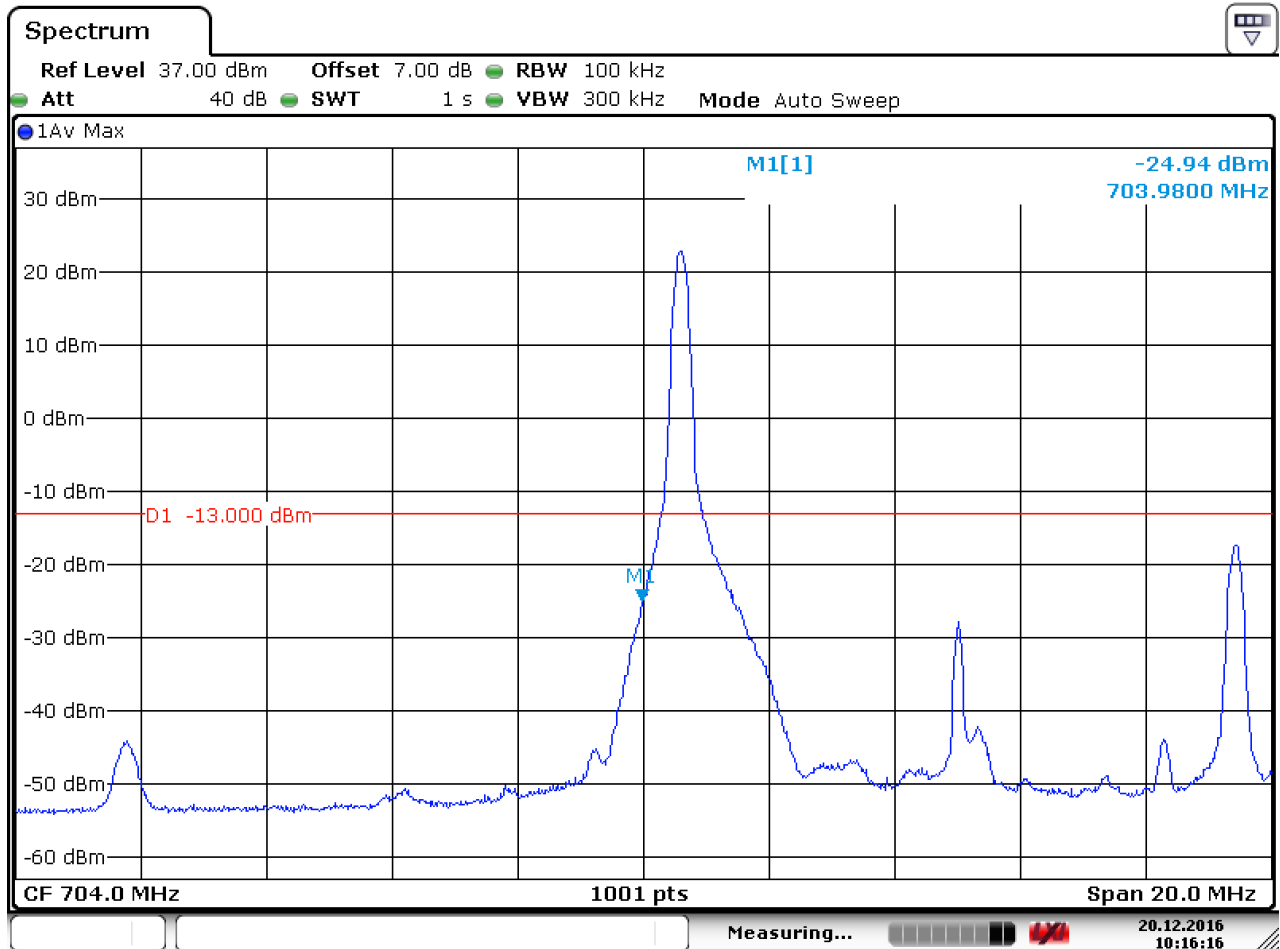
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5.1.1.3 Test Mode = LTE/TM1 10MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

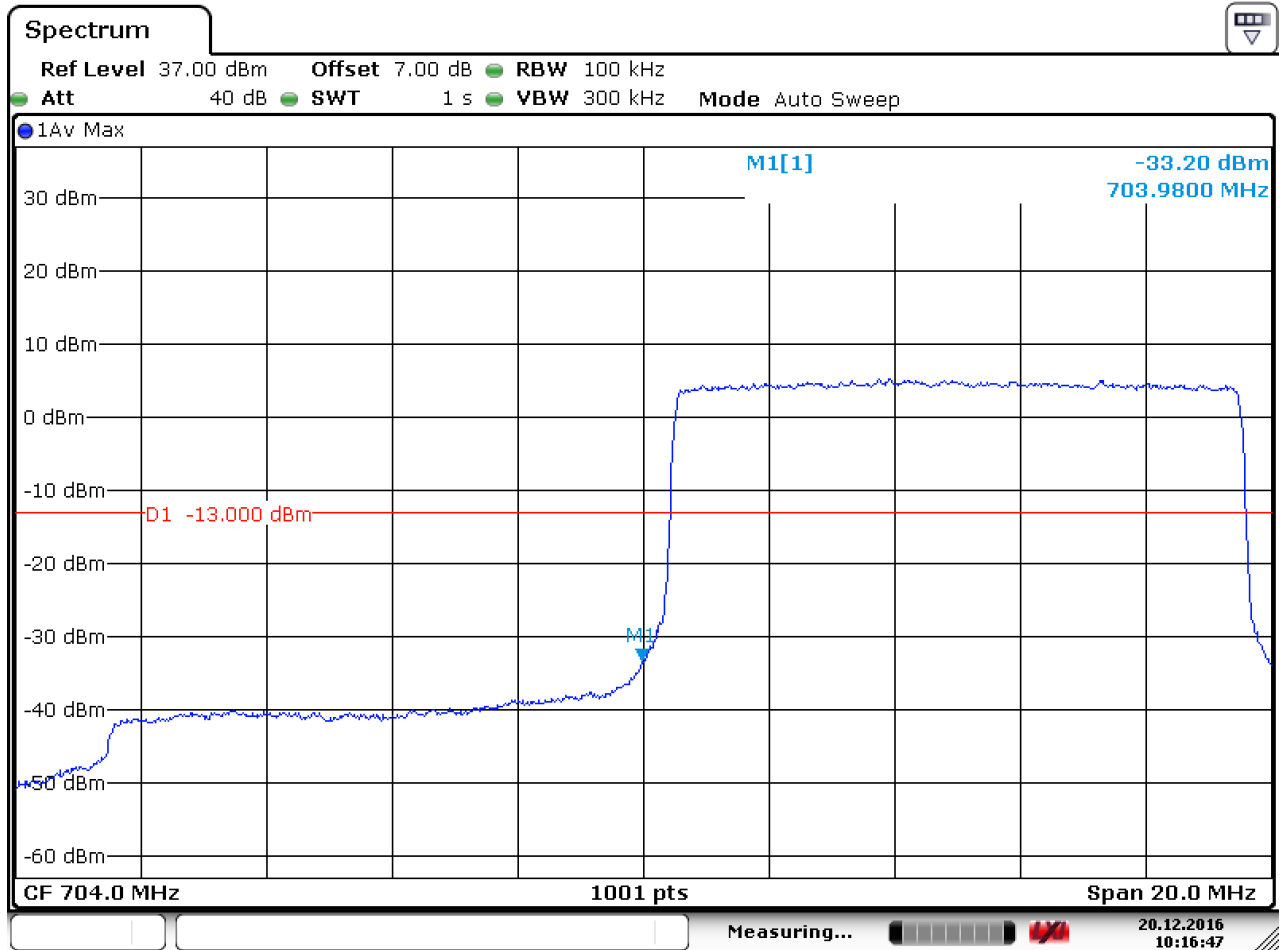


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5.1.1.3.1.2 Test RB=50RB



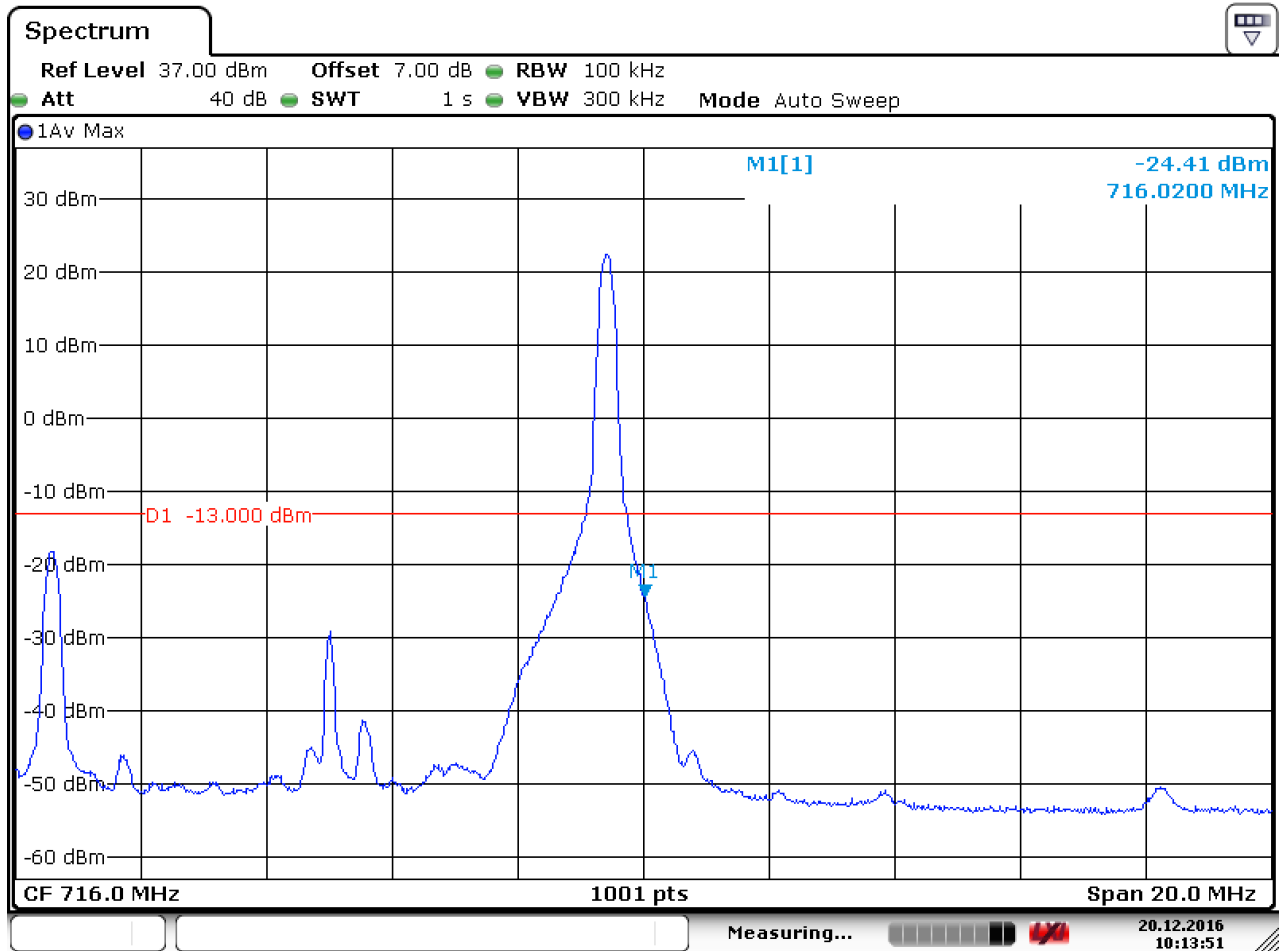
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

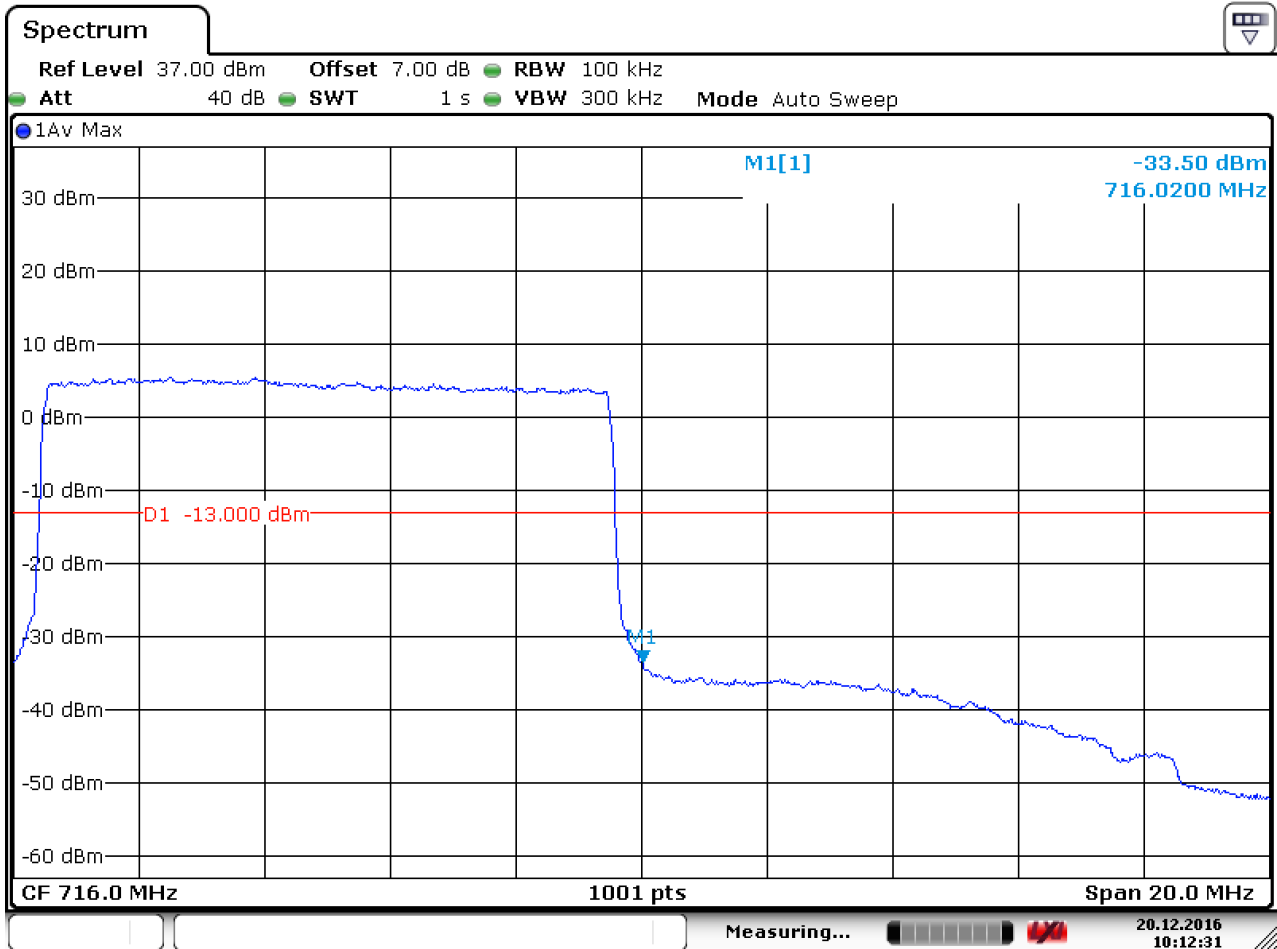


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5.1.1.3.2.2 Test RB=50RB



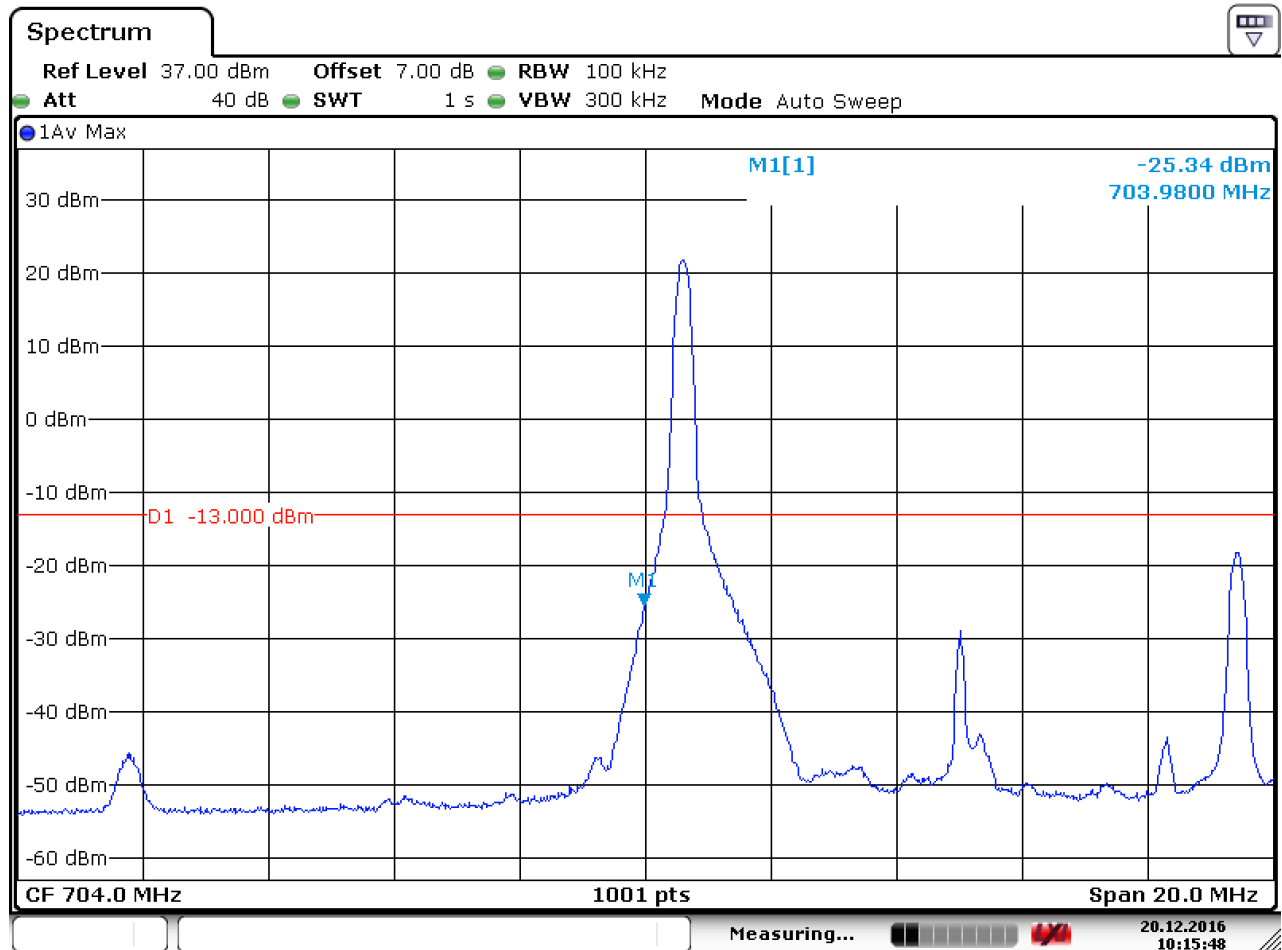
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5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

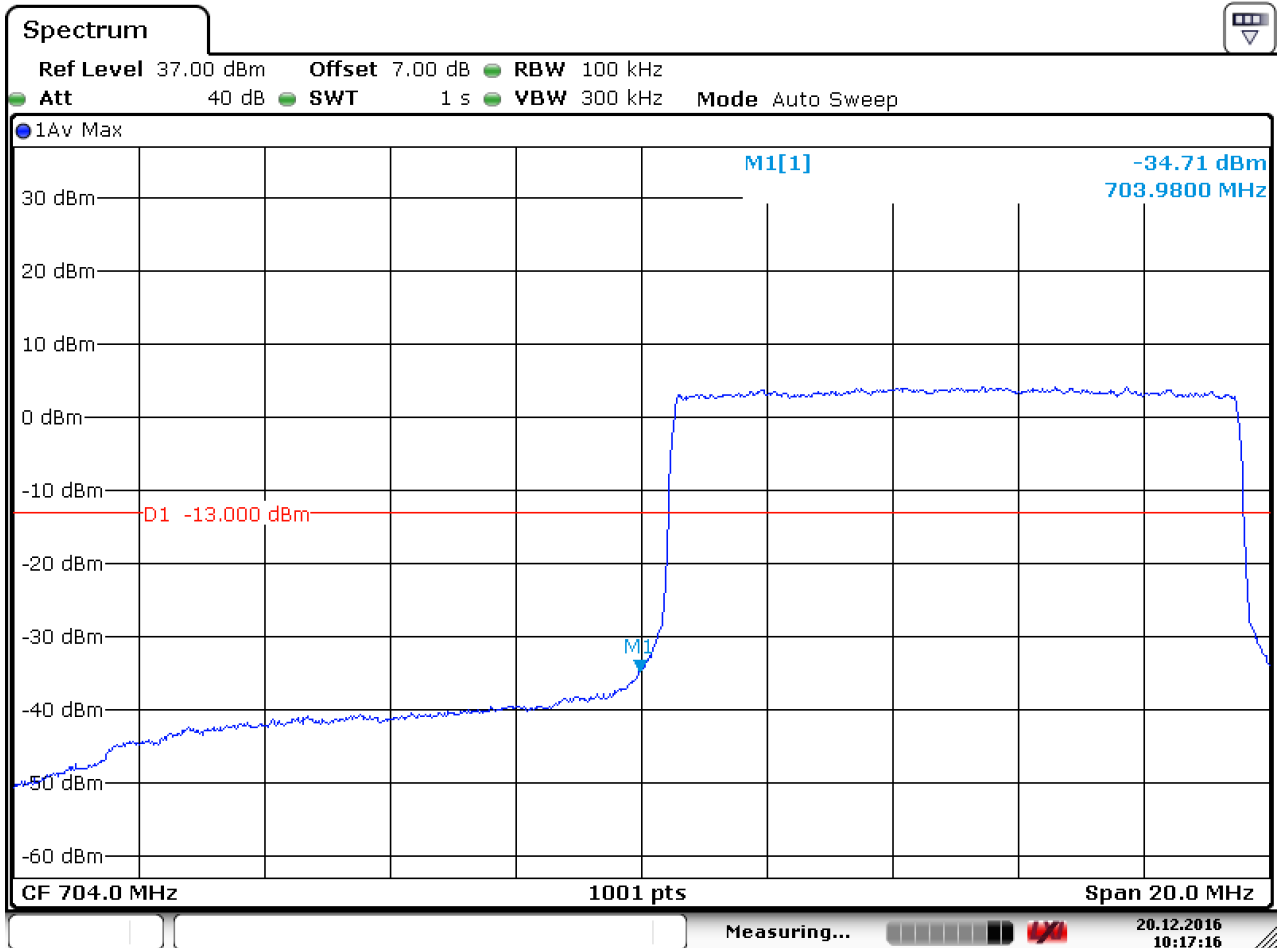


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5.1.1.4.1.2 Test RB=50RB



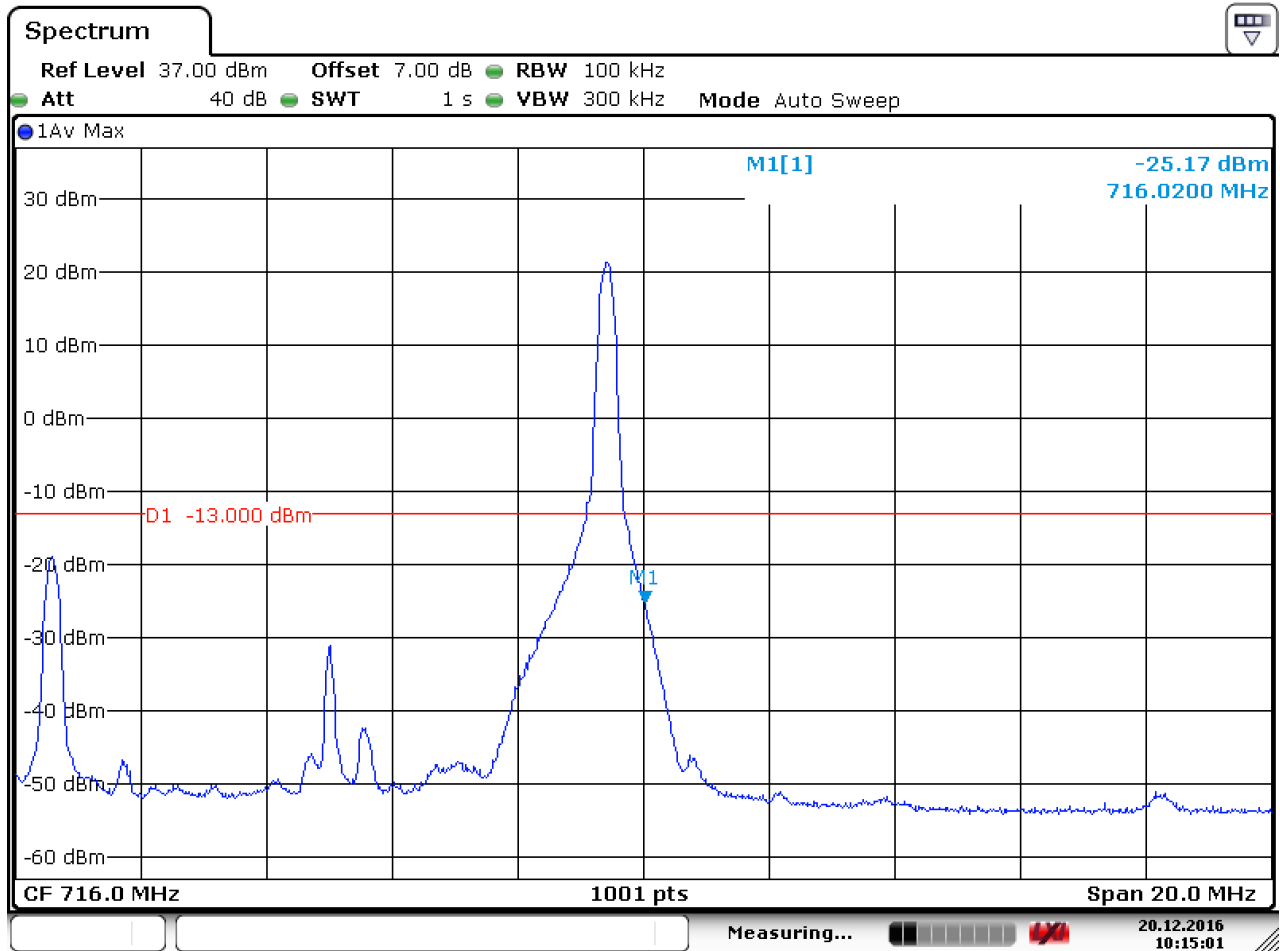
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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

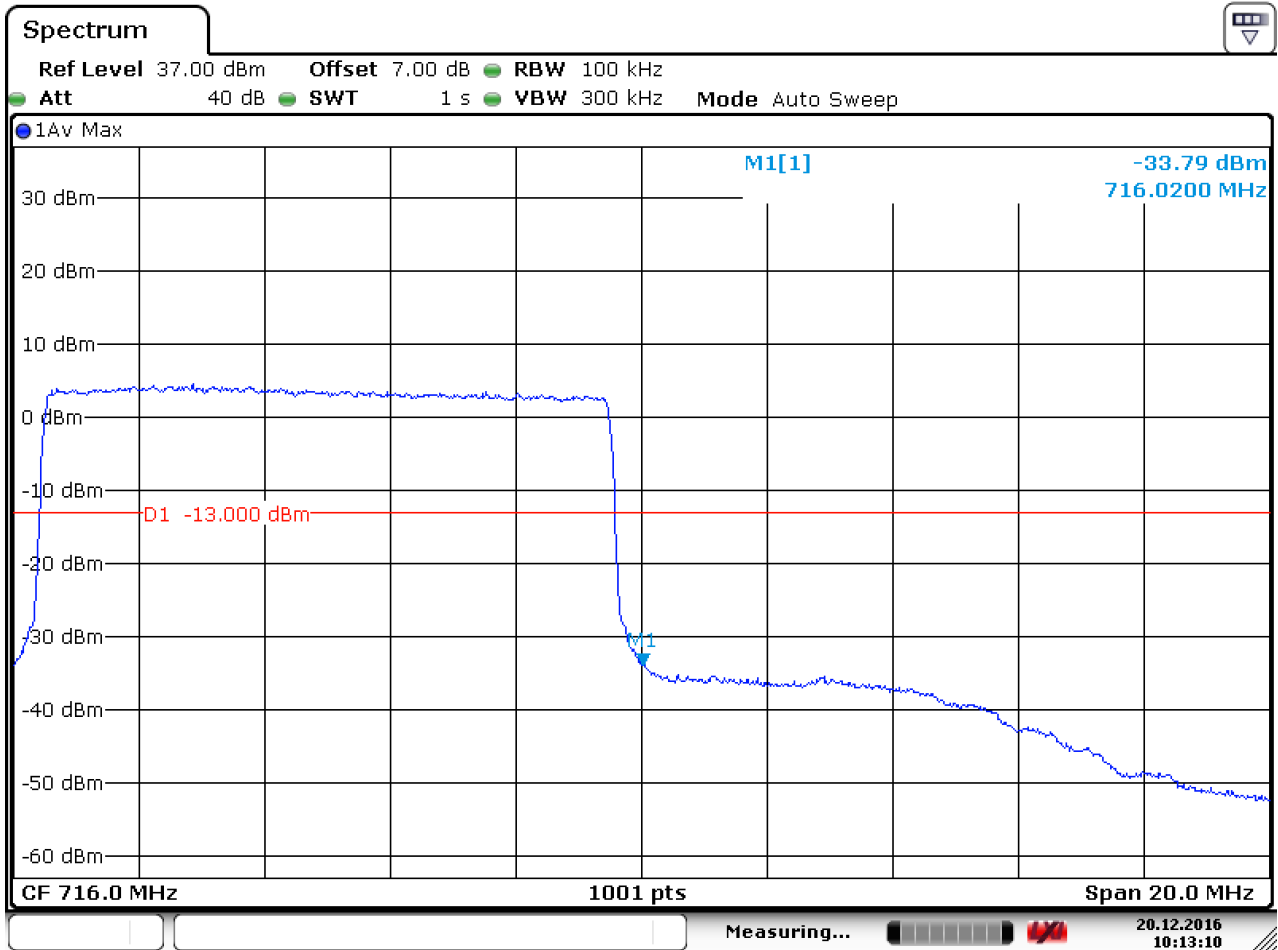


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5.1.1.4.2.2 Test RB=50RB



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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.

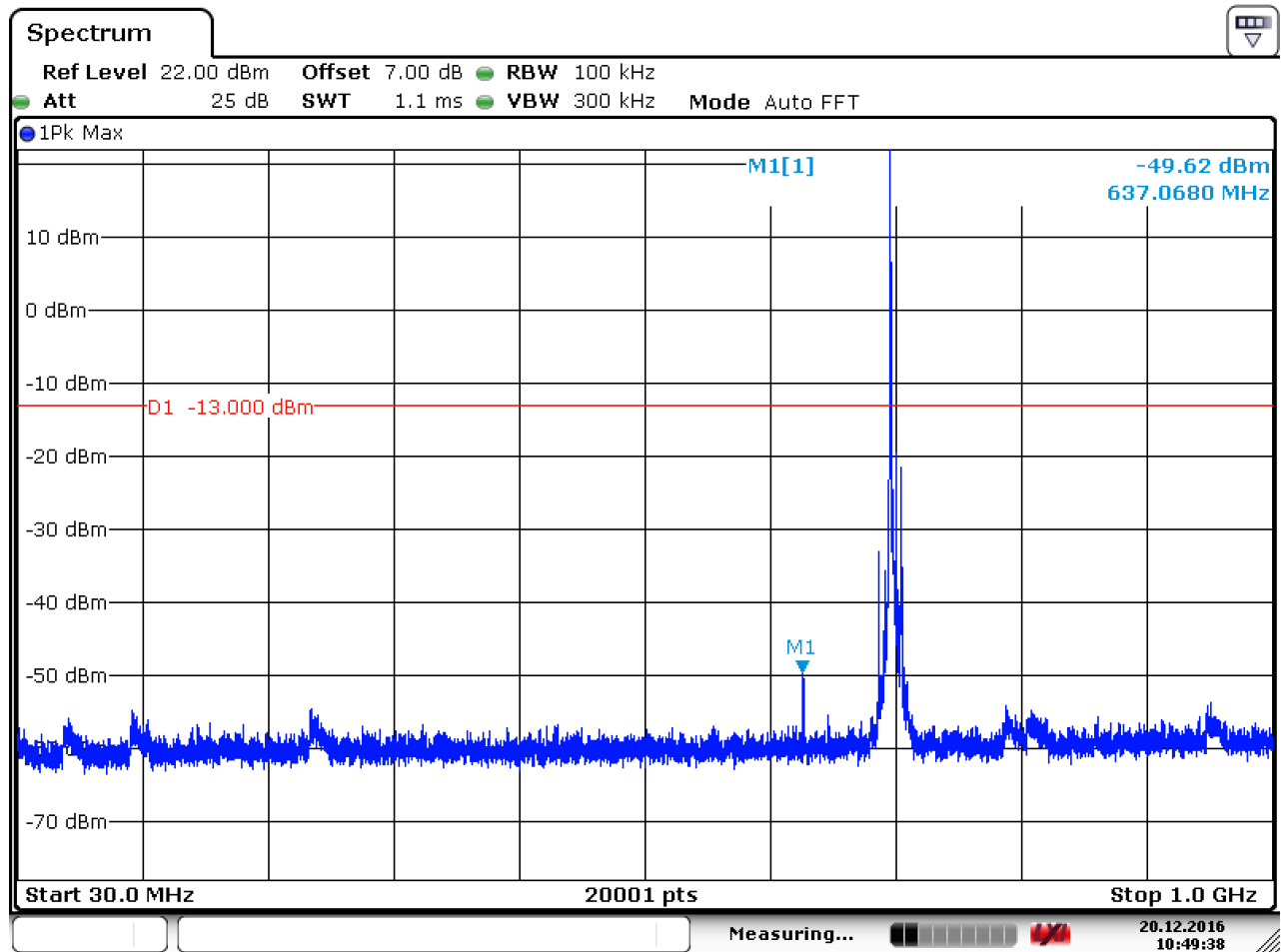
Part I - Test Plots

6.1 For LTE

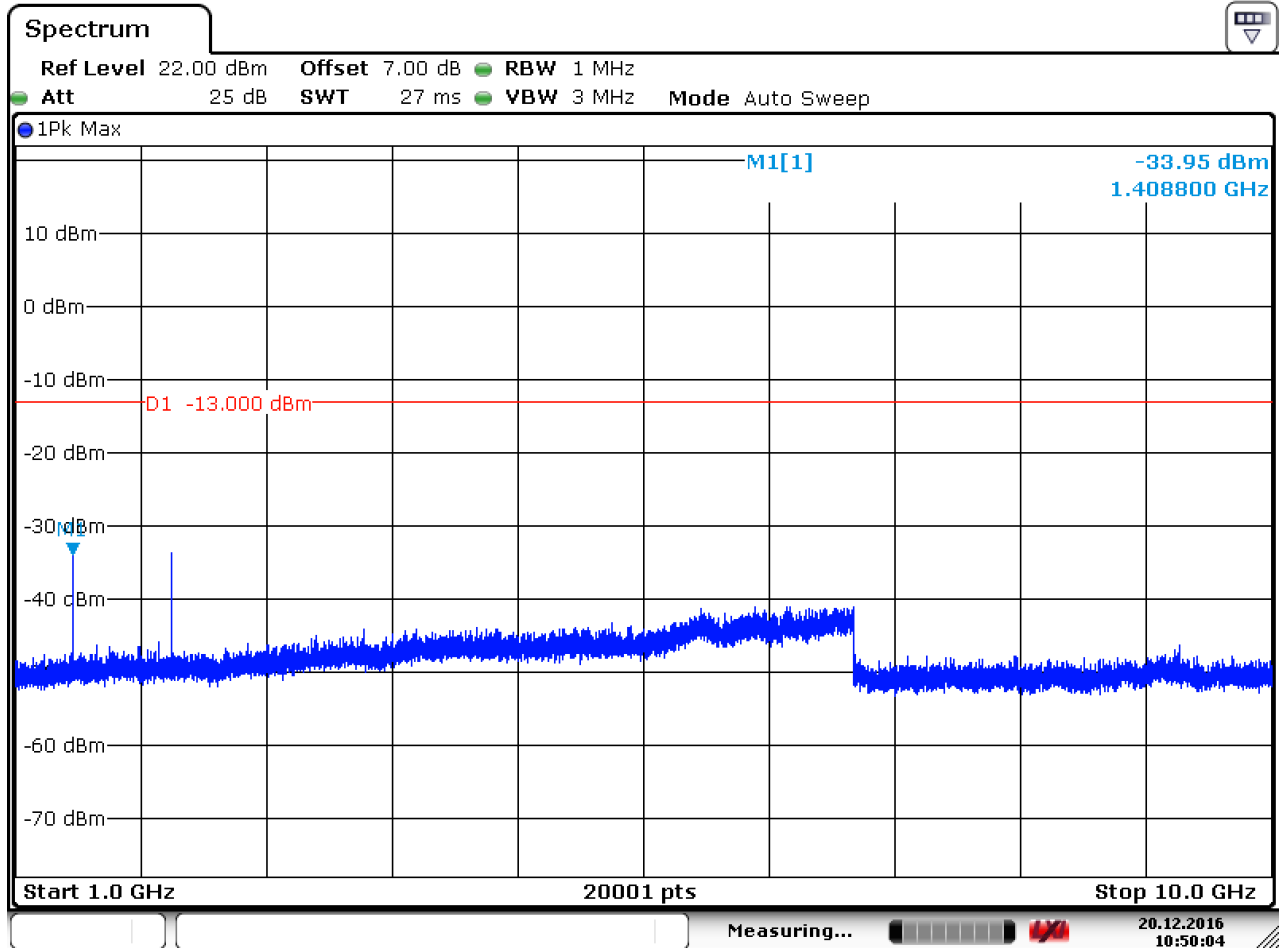
6.1.1 Test Band = LTE band17

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

6.1.1.1.1 Test Channel = LCH



Date: 20.DEC.2016 10:49:38

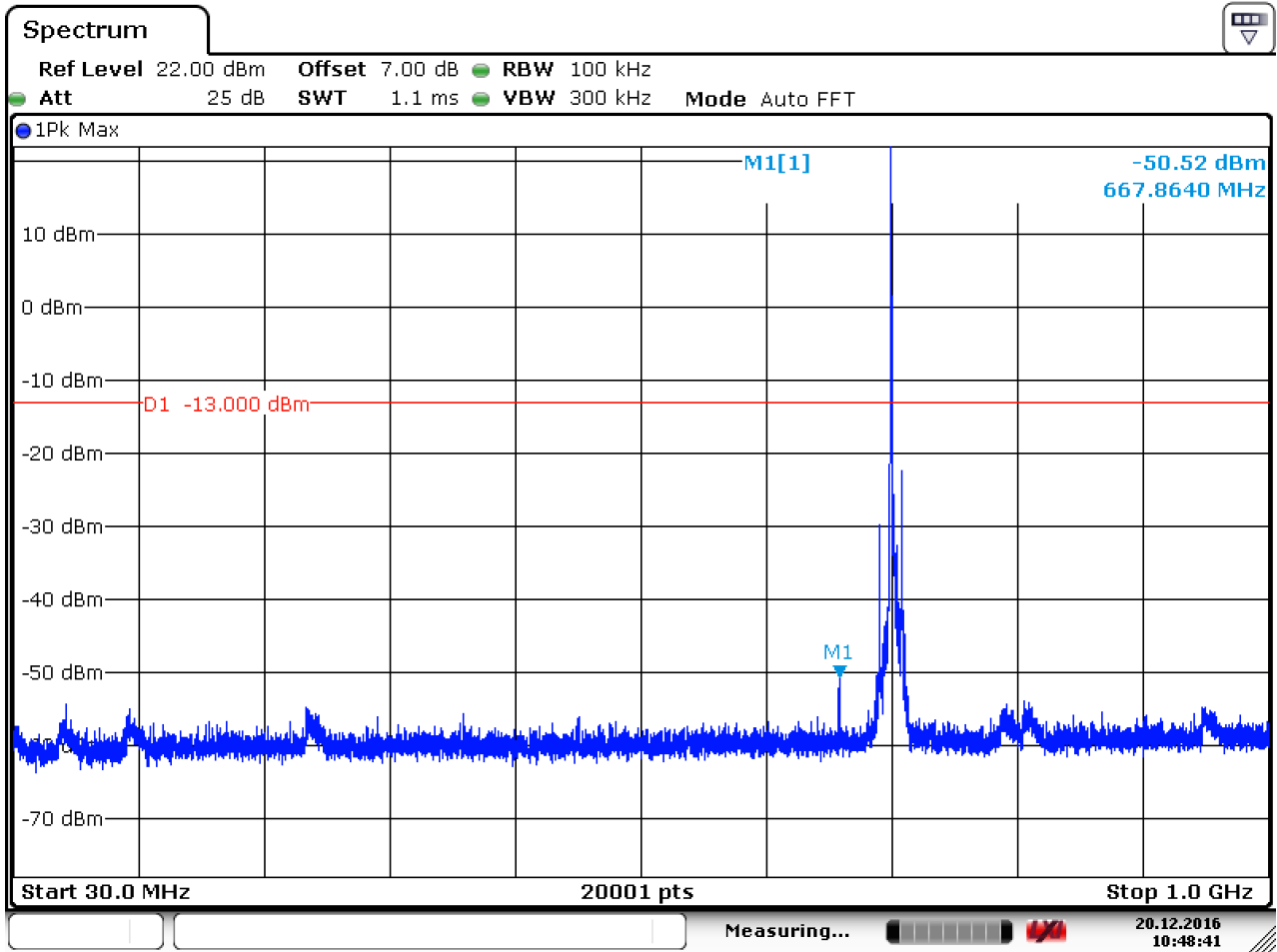


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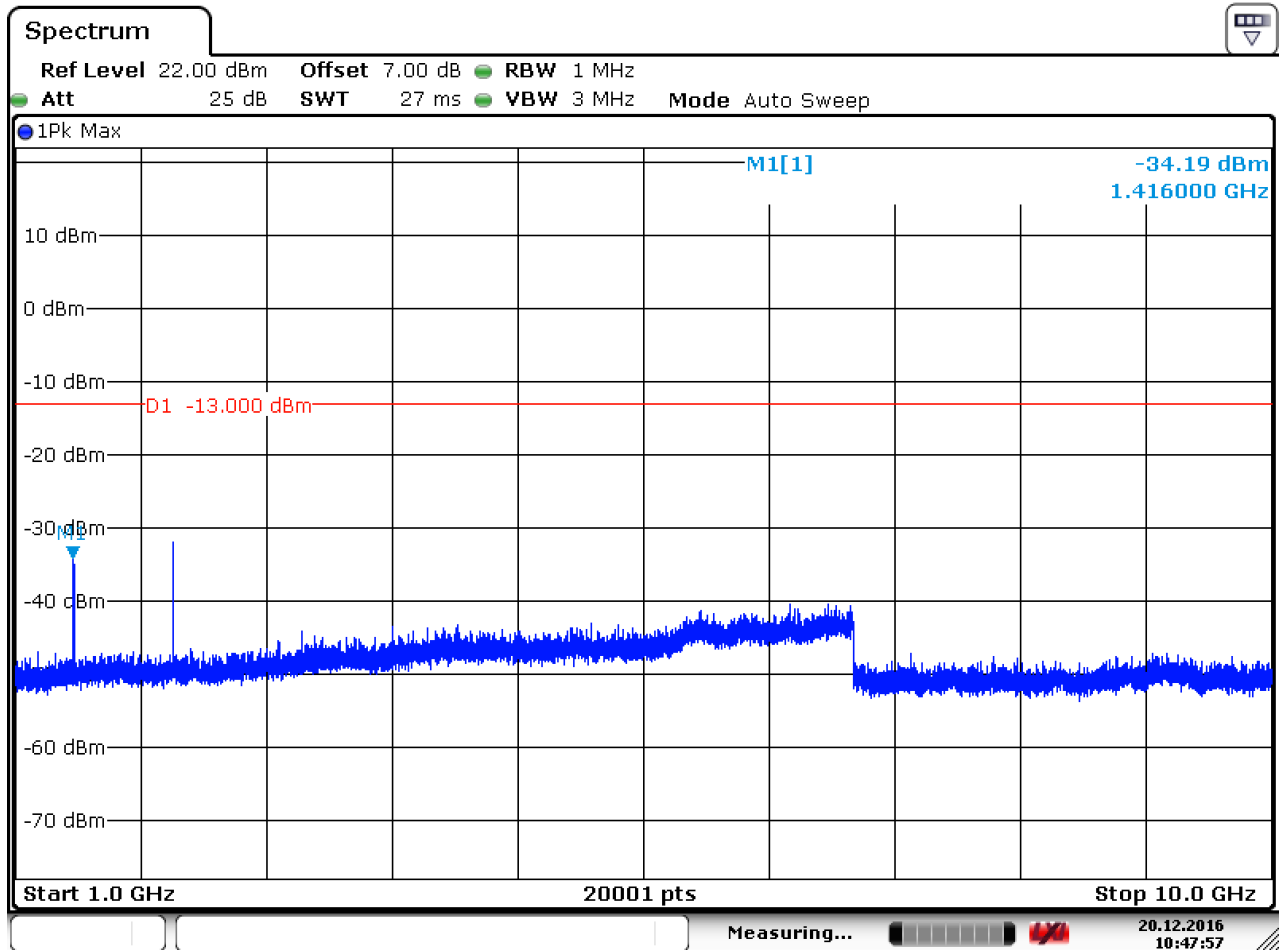


6.1.1.1.2 Test Channel = MCH



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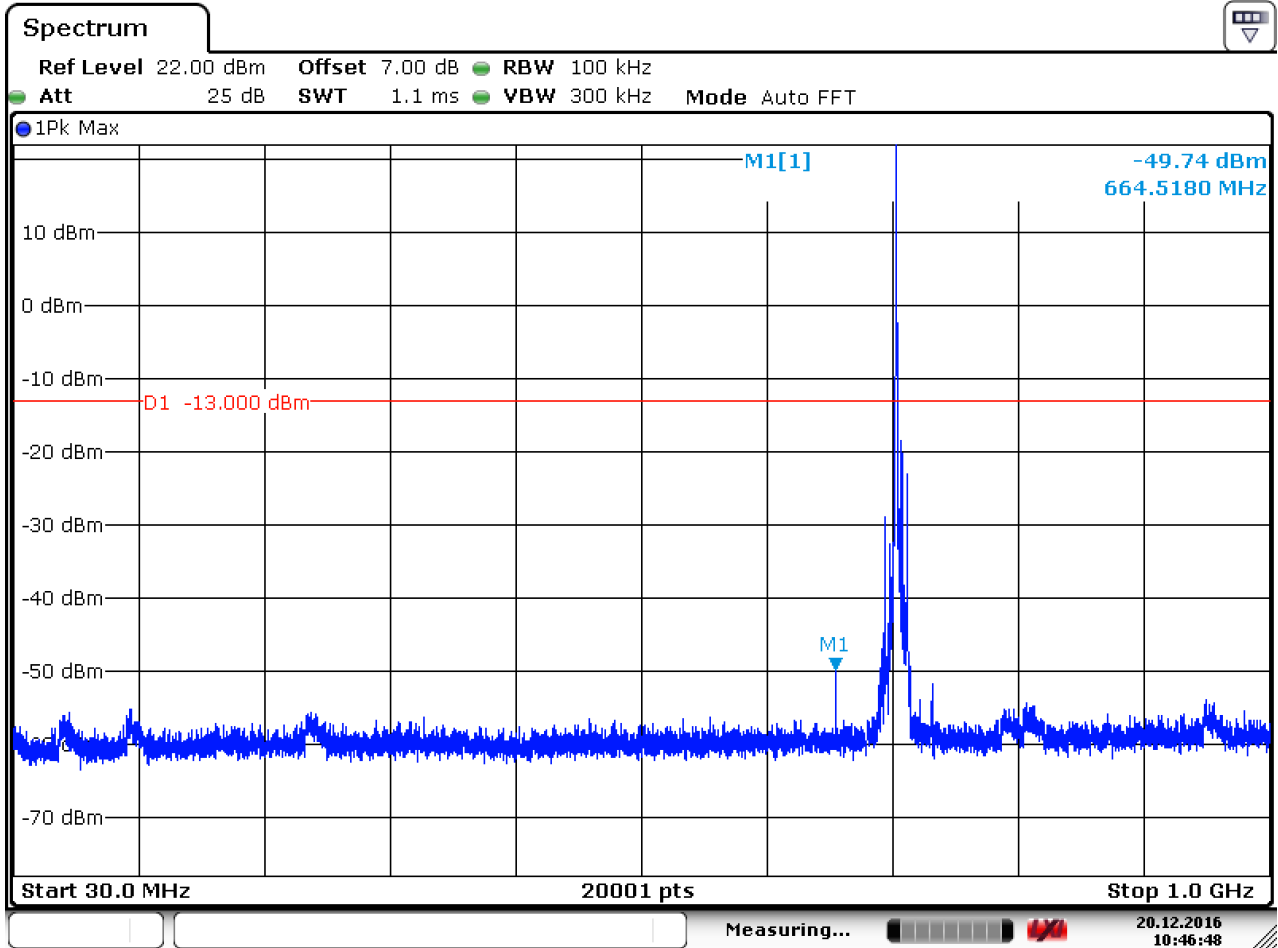


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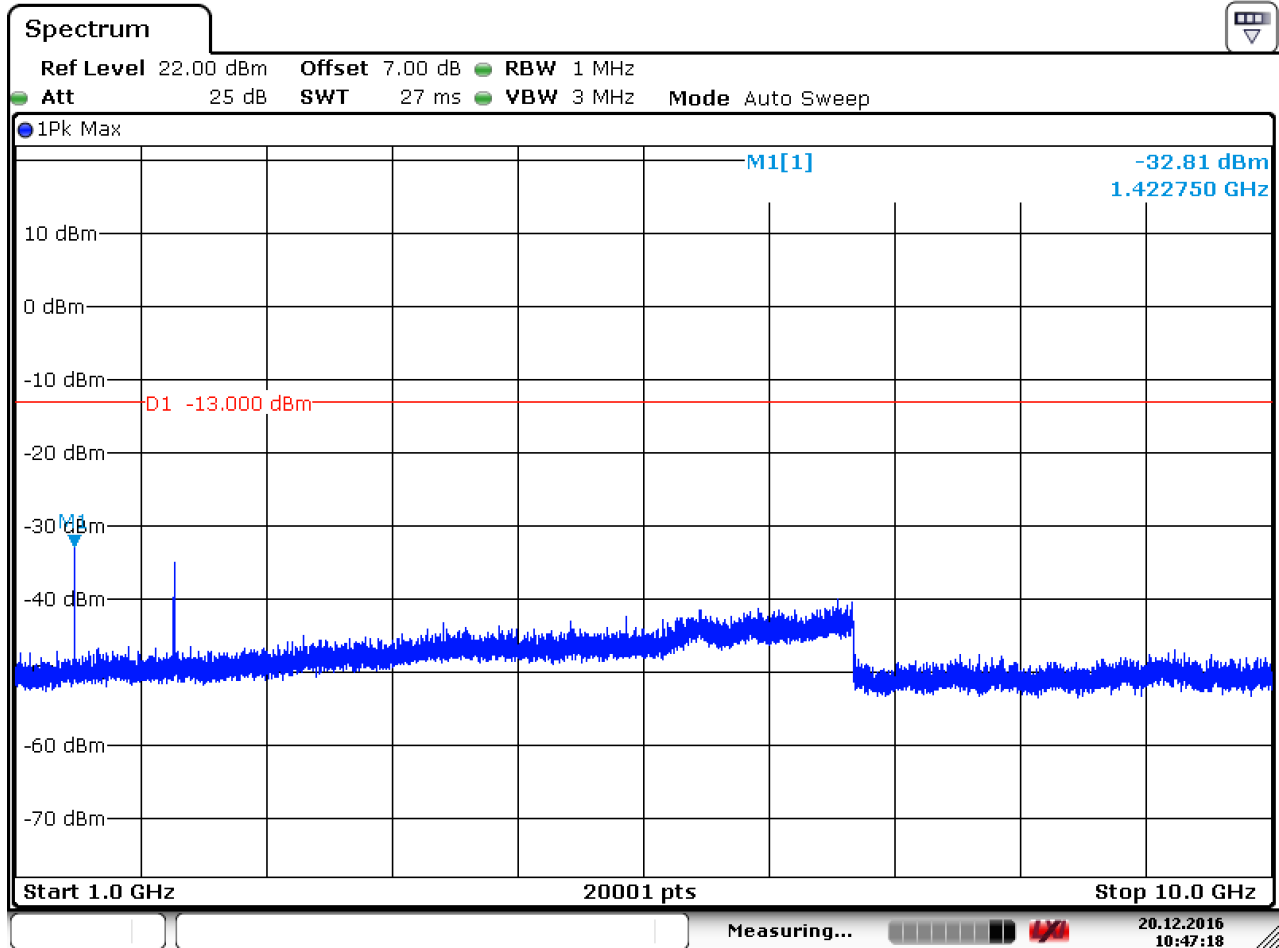


6.1.1.1.3 Test Channel = HCH



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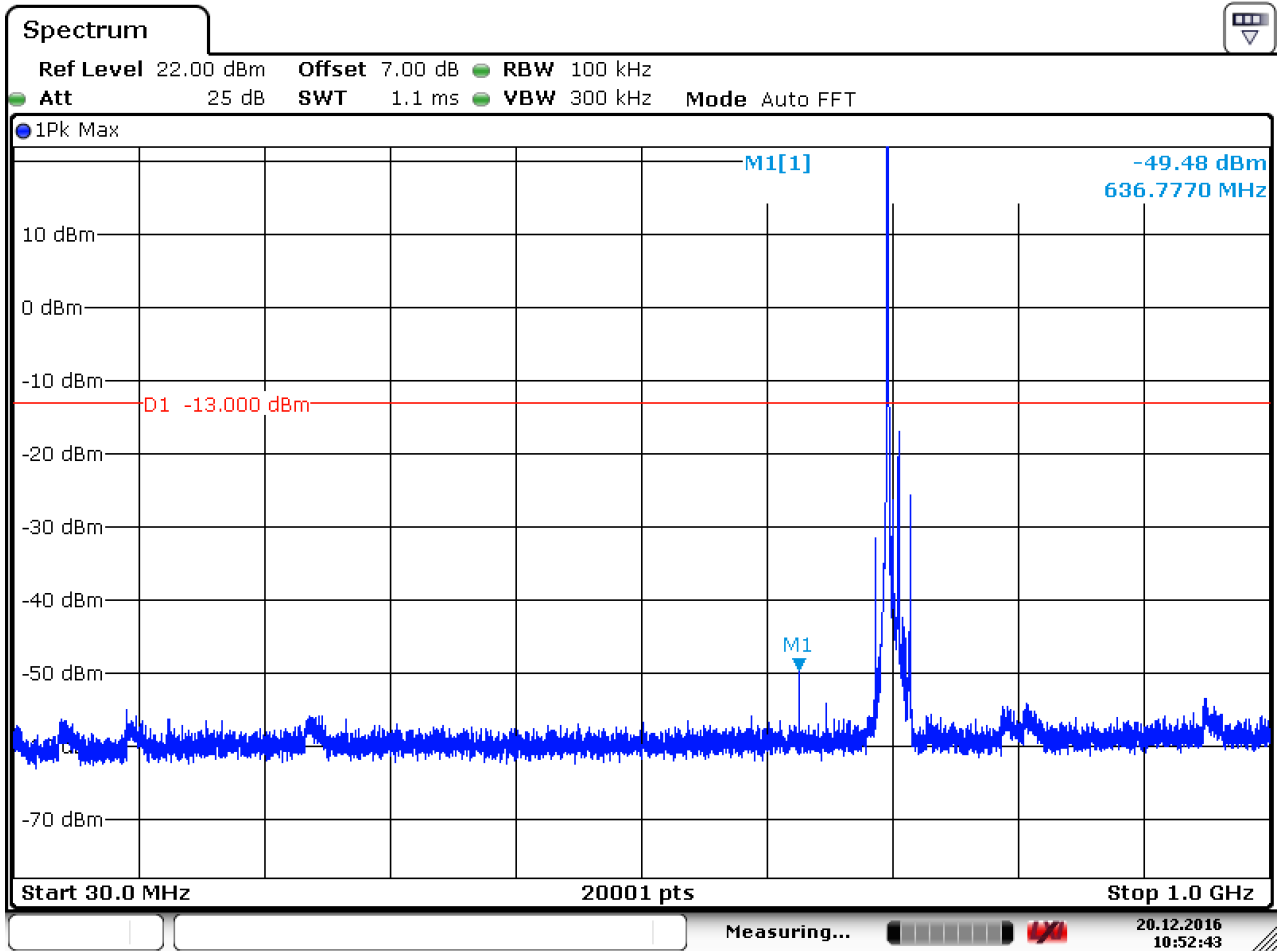
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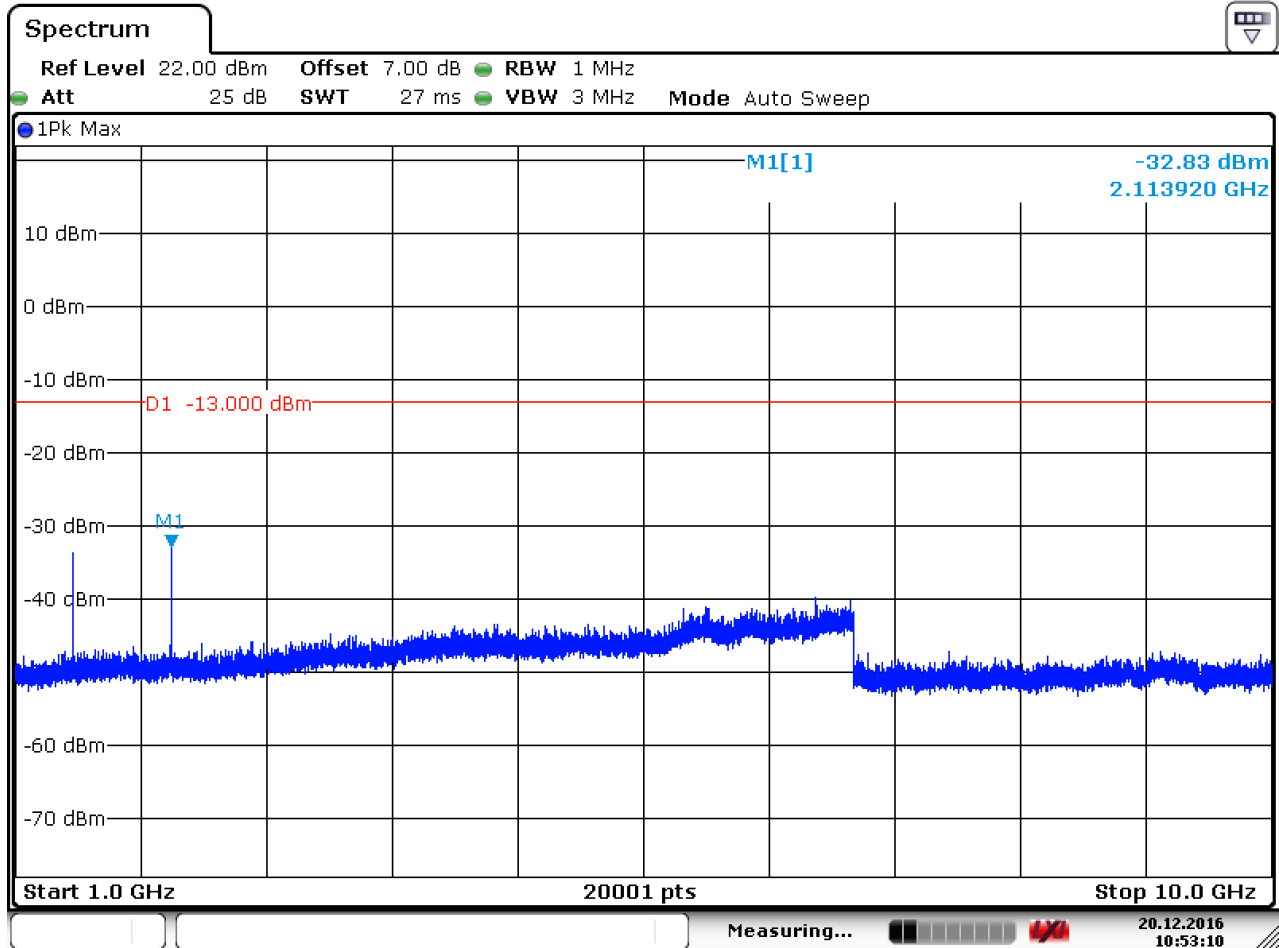
6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



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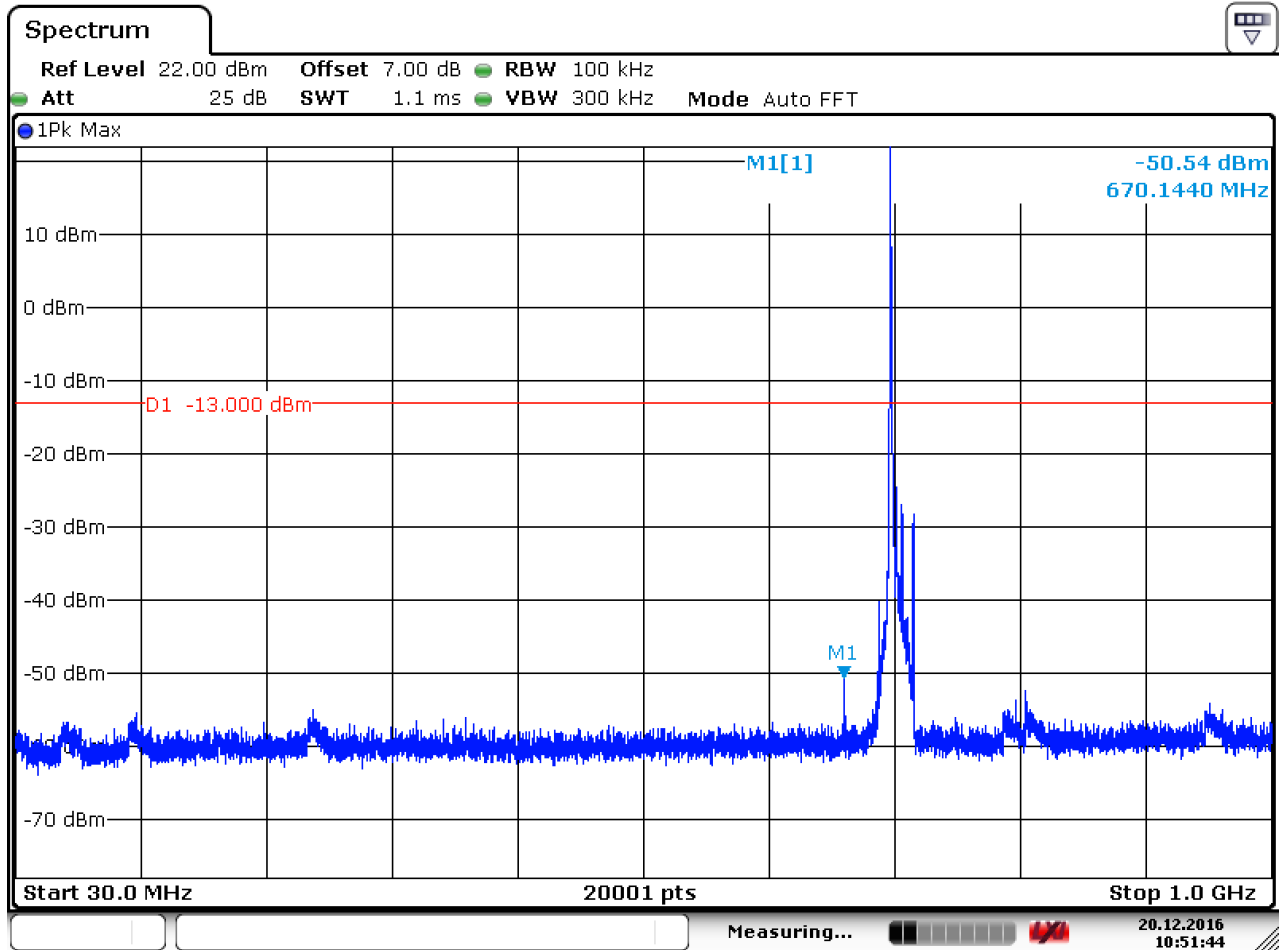


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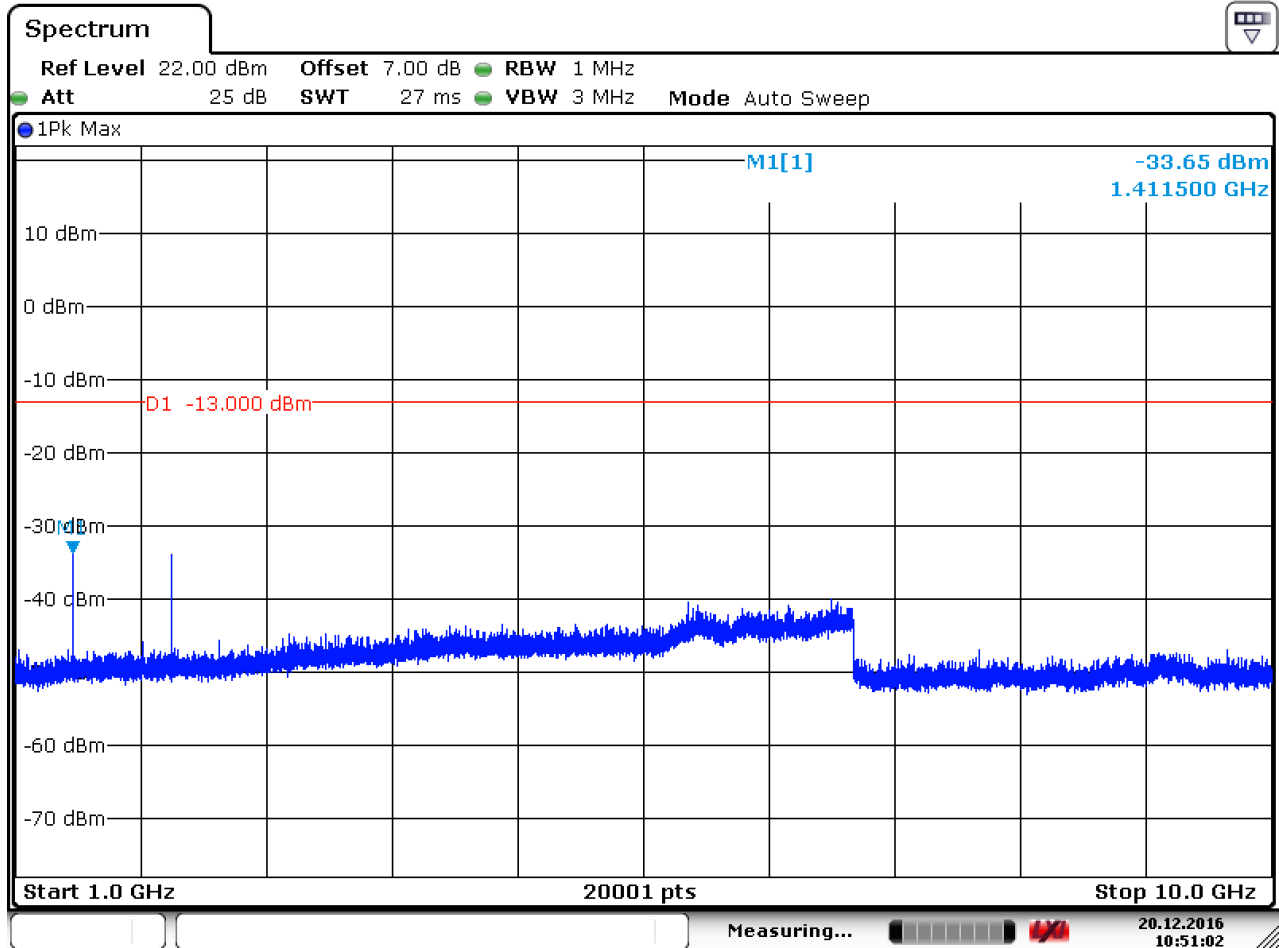


6.1.1.2.2 Test Channel = MCH



Date: 20.DEC.2016 10:51:44

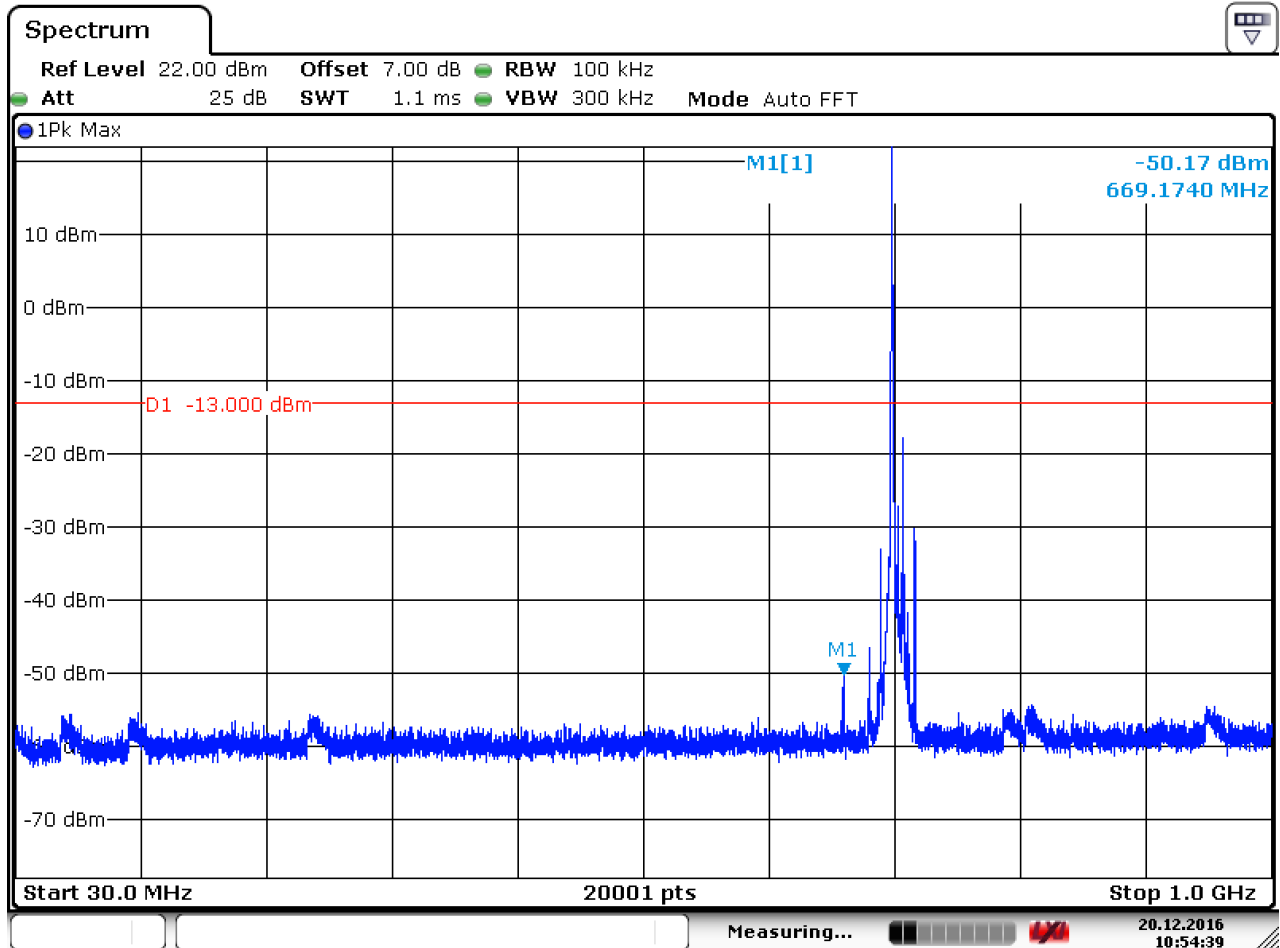
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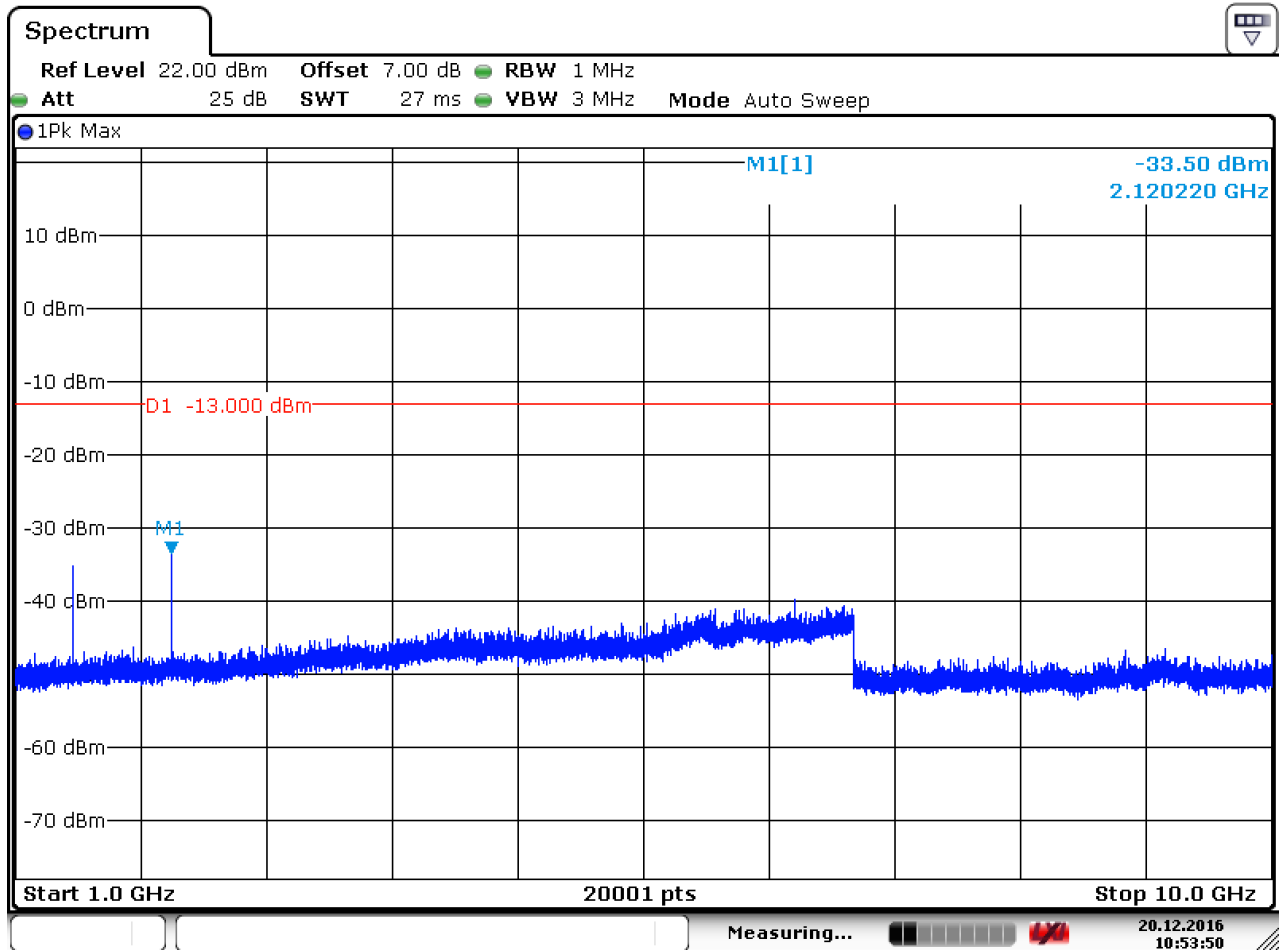


6.1.1.2.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band17

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
1320.000	-67.47	-13.00	54.47	Vertical
1738.000	-64.16	-13.00	51.16	Vertical
2432.000	-58.35	-13.00	45.35	Vertical
1507.000	-66.17	-13.00	53.17	Horizontal
1793.000	-63.66	-13.00	50.66	Horizontal
4072.500	-68.69	-13.00	55.69	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1122.000	-66.88	-13.00	53.88	Vertical
2432.000	-58.35	-13.00	45.35	Vertical
4072.500	-68.58	-13.00	55.58	Vertical
1298.000	-67.66	-13.00	54.66	Horizontal
1793.000	-63.66	-13.00	50.66	Horizontal
2200.000	-59.36	-13.00	46.36	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1452.000	-66.45	-13.00	53.45	Vertical
2189.000	-61.28	-13.00	48.28	Vertical
5340.000	-67.60	-13.00	54.60	Vertical
1276.000	-66.32	-13.00	53.32	Horizontal
3682.500	-69.18	-13.00	56.18	Horizontal
5340.000	-67.61	-13.00	54.61	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 band 17	LTE/TM1 10MHz	LCH	TN	VL	-4.34	-0.00612	PASS
				VN	0.26	0.00037	PASS
				VH	-4.72	-0.00666	PASS
		MCH	TN	VL	1.43	0.00201	PASS
				VN	-4.14	-0.00583	PASS
				VH	2.33	0.00328	PASS
		HCH	TN	VL	-3.56	-0.00501	PASS
				VN	-5.27	-0.00741	PASS
				VH	-1.73	-0.00243	PASS
	LTE/TM2 10MHz	LCH	TN	VL	-4.18	-0.00590	PASS
				VN	-2.95	-0.00416	PASS
				VH	-5.26	-0.00742	PASS
		MCH	TN	VL	1.44	0.00203	PASS
				VN	-3.40	-0.00479	PASS
				VH	2.29	0.00323	PASS
		HCH	TN	VL	-3.11	-0.00437	PASS
				VN	-7.30	-0.01027	PASS
				VH	1.14	0.00160	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
LTEband1 7	LTE/TM1 10MHz	LCH	VN	-30	-3.22	-0.00454	PASS
				-20	-1.56	-0.00220	PASS
				-10	2.48	0.00350	PASS
				0	1.35	0.00190	PASS
				10	1.65	0.00233	PASS
				20	0.11	0.00016	PASS
				30	-2.35	-0.00331	PASS
				40	-4.14	-0.00584	PASS
				50	0.59	0.00083	PASS
		MCH	VN	-30	-6.33	-0.00892	PASS
				-20	-3.95	-0.00556	PASS
				-10	-7.49	-0.01055	PASS
				0	-5.62	-0.00792	PASS
				10	-4.55	-0.00641	PASS
				20	-7.22	-0.01017	PASS
				30	-3.68	-0.00518	PASS
				40	-2.69	-0.00379	PASS
				50	-4.92	-0.00693	PASS
		HCH	VN	-30	5.51	0.00775	PASS
				-20	-1.66	-0.00233	PASS
				-10	2.83	0.00398	PASS
				0	-2.4	-0.00338	PASS
				10	2.60	0.00366	PASS
				20	-0.57	-0.00080	PASS
30	-2.61			-0.00367	PASS		
40	-3.33			-0.00468	PASS		
50	-5.90			-0.00830	PASS		

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

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband1 7	LTE/TM2 10MHz	LCH	VN	-30	-2.76	-0.00389	PASS
				-20	-1.45	-0.00205	PASS
				-10	3.28	0.00463	PASS
				0	2.64	0.00372	PASS
				10	1.80	0.00254	PASS
				20	-0.43	-0.00061	PASS
				30	-0.44	-0.00062	PASS
				40	5.31	0.00749	PASS
		MCH	VN	-30	-3.44	-0.00485	PASS
				-20	-5.28	-0.00744	PASS
				-10	-7.29	-0.01027	PASS
				0	-4.12	-0.00580	PASS
				10	-2.37	-0.00334	PASS
				20	1.55	0.00218	PASS
				30	-3.64	-0.00513	PASS
				40	-2.32	-0.00327	PASS
		HCH	VN	-30	1.34	0.00188	PASS
				-20	-2.35	-0.00331	PASS
				-10	1.42	0.00200	PASS
				0	-3.33	-0.00468	PASS
				10	1.88	0.00264	PASS
				20	-1.49	-0.00210	PASS
				30	-2.39	-0.00336	PASS
				40	-4.83	-0.00679	PASS
			50	-5.60	-0.00788	PASS	

The End

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