



Appendix B

Test Data for SZEM161201085001RG



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1 Effective (Isotropic) Radiated Power Output Data

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	5M	LCH	RB1#0	21.20	21.20	33.00	PASS
				RB1#13	21.13	21.13	33.00	PASS
				RB1#24	21.25	21.25	33.00	PASS
				RB12#0	20.28	20.28	33.00	PASS
				RB12#6	20.26	20.26	33.00	PASS
				RB12#13	20.38	20.38	33.00	PASS
				RB25#0	20.10	20.10	33.00	PASS
			MCH	RB1#0	21.23	21.23	33.00	PASS
				RB1#13	21.37	21.37	33.00	PASS
				RB1#24	21.63	21.63	33.00	PASS
				RB12#0	19.99	19.99	33.00	PASS
				RB12#6	20.04	20.04	33.00	PASS
				RB12#13	20.06	20.06	33.00	PASS
				RB25#0	20.06	20.06	33.00	PASS
			HCH	RB1#0	21.71	21.71	33.00	PASS
				RB1#13	20.99	20.99	33.00	PASS
				RB1#24	21.04	21.04	33.00	PASS
				RB12#0	20.64	20.64	33.00	PASS
				RB12#6	20.69	20.69	33.00	PASS
				RB12#13	20.61	20.61	33.00	PASS
				RB25#0	20.23	20.23	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	5M	LCH	RB1#0	19.97	19.97	33.00	PASS
				RB1#13	19.83	19.83	33.00	PASS
				RB1#24	19.79	19.79	33.00	PASS
				RB12#0	19.60	19.60	33.00	PASS
				RB12#6	19.64	19.64	33.00	PASS
				RB12#13	19.86	19.86	33.00	PASS
				RB25#0	19.07	19.07	33.00	PASS
			MCH	RB1#0	20.51	20.51	33.00	PASS
				RB1#13	20.01	20.01	33.00	PASS
				RB1#24	19.82	19.82	33.00	PASS
				RB12#0	19.27	19.27	33.00	PASS
				RB12#6	19.46	19.46	33.00	PASS
				RB12#13	19.81	19.81	33.00	PASS
				RB25#0	18.93	18.93	33.00	PASS
			HCH	RB1#0	20.57	20.57	33.00	PASS
				RB1#13	20.27	20.27	33.00	PASS
				RB1#24	20.06	20.06	33.00	PASS
				RB12#0	19.68	19.68	33.00	PASS
				RB12#6	19.59	19.59	33.00	PASS
				RB12#13	19.43	19.43	33.00	PASS
				RB25#0	19.41	19.41	33.00	PASS

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BAND7	LTE/TM1	10M	LCH	RB1#0	21.26	21.26	33.00	PASS
				RB1#25	21.21	21.21	33.00	PASS
				RB1#49	21.30	21.30	33.00	PASS
				RB25#0	20.33	20.33	33.00	PASS
				RB25#13	20.32	20.32	33.00	PASS
				RB25#25	20.45	20.45	33.00	PASS
				RB50#0	20.16	20.16	33.00	PASS
			MCH	RB1#0	21.27	21.27	33.00	PASS
				RB1#25	21.45	21.45	33.00	PASS
				RB1#49	21.70	21.70	33.00	PASS
				RB25#0	20.04	20.04	33.00	PASS
				RB25#13	20.11	20.11	33.00	PASS
				RB25#25	20.13	20.13	33.00	PASS
				RB50#0	20.09	20.09	33.00	PASS
			HCH	RB1#0	21.76	21.76	33.00	PASS
				RB1#25	21.06	21.06	33.00	PASS
				RB1#49	21.09	21.09	33.00	PASS
				RB25#0	20.72	20.72	33.00	PASS
				RB25#13	20.73	20.73	33.00	PASS
				RB25#25	20.66	20.66	33.00	PASS
				RB50#0	20.30	20.30	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	10M	LCH	RB1#0	20.05	20.05	33.00	PASS
				RB1#25	19.90	19.90	33.00	PASS
				RB1#49	19.85	19.85	33.00	PASS
				RB25#0	19.66	19.66	33.00	PASS
				RB25#13	19.70	19.70	33.00	PASS
				RB25#25	19.90	19.90	33.00	PASS
				RB50#0	19.10	19.10	33.00	PASS
			MCH	RB1#0	20.54	20.54	33.00	PASS
				RB1#25	20.08	20.08	33.00	PASS
				RB1#49	19.88	19.88	33.00	PASS
				RB25#0	19.35	19.35	33.00	PASS
				RB25#13	19.51	19.51	33.00	PASS
				RB25#25	19.87	19.87	33.00	PASS
				RB50#0	19.00	19.00	33.00	PASS
			HCH	RB1#0	20.65	20.65	33.00	PASS
				RB1#25	20.34	20.34	33.00	PASS
				RB1#49	20.09	20.09	33.00	PASS
				RB25#0	19.74	19.74	33.00	PASS
				RB25#13	19.62	19.62	33.00	PASS
				RB25#25	19.47	19.47	33.00	PASS
				RB50#0	19.45	19.45	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	15M	LCH	RB1#0	21.32	21.32	33.00	PASS
				RB1#38	21.27	21.27	33.00	PASS
				RB1#74	21.34	21.34	33.00	PASS
				RB36#0	20.39	20.39	33.00	PASS
				RB36#18	20.38	20.38	33.00	PASS
				RB36#39	20.51	20.51	33.00	PASS
				RB75#0	20.21	20.21	33.00	PASS
			MCH	RB1#0	21.31	21.31	33.00	PASS
				RB1#38	21.48	21.48	33.00	PASS
				RB1#74	21.74	21.74	33.00	PASS
				RB36#0	20.12	20.12	33.00	PASS
				RB36#18	20.17	20.17	33.00	PASS
				RB36#39	20.19	20.19	33.00	PASS
				RB75#0	20.14	20.14	33.00	PASS
			HCH	RB1#0	21.84	21.84	33.00	PASS
				RB1#38	21.11	21.11	33.00	PASS
				RB1#74	21.12	21.12	33.00	PASS
				RB36#0	20.78	20.78	33.00	PASS
				RB36#18	20.79	20.79	33.00	PASS
				RB36#39	20.70	20.70	33.00	PASS
				RB75#0	20.36	20.36	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	15M	LCH	RB1#0	20.12	20.12	33.00	PASS
				RB1#38	19.97	19.97	33.00	PASS
				RB1#74	19.91	19.91	33.00	PASS
				RB36#0	19.72	19.72	33.00	PASS
				RB36#18	19.76	19.76	33.00	PASS
				RB36#39	19.95	19.95	33.00	PASS
				RB75#0	19.18	19.18	33.00	PASS
			MCH	RB1#0	20.59	20.59	33.00	PASS
				RB1#38	20.14	20.14	33.00	PASS
				RB1#74	19.92	19.92	33.00	PASS
				RB36#0	19.43	19.43	33.00	PASS
				RB36#18	19.56	19.56	33.00	PASS
				RB36#39	19.91	19.91	33.00	PASS
				RB75#0	19.06	19.06	33.00	PASS
			HCH	RB1#0	20.70	20.70	33.00	PASS
				RB1#38	20.39	20.39	33.00	PASS
				RB1#74	20.15	20.15	33.00	PASS
				RB36#0	19.82	19.82	33.00	PASS
				RB36#18	19.65	19.65	33.00	PASS
				RB36#39	19.50	19.50	33.00	PASS
				RB75#0	19.51	19.51	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	20M	LCH	RB1#0	21.38	21.38	33.00	PASS
				RB1#50	21.32	21.32	33.00	PASS
				RB1#99	21.37	21.37	33.00	PASS
				RB50#0	20.44	20.44	33.00	PASS
				RB50#25	20.45	20.45	33.00	PASS
				RB50#50	20.58	20.58	33.00	PASS
				RB100#0	20.27	20.27	33.00	PASS
			MCH	RB1#0	21.37	21.37	33.00	PASS
				RB1#50	21.54	21.54	33.00	PASS
				RB1#99	21.80	21.80	33.00	PASS
				RB50#0	20.16	20.16	33.00	PASS
				RB50#25	20.21	20.21	33.00	PASS
				RB50#50	20.24	20.24	33.00	PASS
				RB100#0	20.21	20.21	33.00	PASS
			HCH	RB1#0	21.87	21.87	33.00	PASS
				RB1#50	21.16	21.16	33.00	PASS
				RB1#99	21.15	21.15	33.00	PASS
				RB50#0	20.86	20.86	33.00	PASS
				RB50#25	20.83	20.83	33.00	PASS
				RB50#50	20.77	20.77	33.00	PASS
				RB100#0	20.41	20.41	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	20M	LCH	RB1#0	20.19	20.19	33.00	PASS
				RB1#50	20.01	20.01	33.00	PASS
				RB1#99	19.98	19.98	33.00	PASS
				RB50#0	19.79	19.79	33.00	PASS
				RB50#25	19.82	19.82	33.00	PASS
				RB50#50	20.01	20.01	33.00	PASS
				RB100#0	19.24	19.24	33.00	PASS
			MCH	RB1#0	20.63	20.63	33.00	PASS
				RB1#50	20.18	20.18	33.00	PASS
				RB1#99	19.99	19.99	33.00	PASS
				RB50#0	19.51	19.51	33.00	PASS
				RB50#25	19.63	19.63	33.00	PASS
				RB50#50	19.98	19.98	33.00	PASS
				RB100#0	19.11	19.11	33.00	PASS
			HCH	RB1#0	20.76	20.76	33.00	PASS
				RB1#50	20.45	20.45	33.00	PASS
				RB1#99	20.18	20.18	33.00	PASS
				RB50#0	19.88	19.88	33.00	PASS
				RB50#25	19.73	19.73	33.00	PASS
				RB50#50	19.54	19.54	33.00	PASS
				RB100#0	19.56	19.56	33.00	PASS

Note:

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

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

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 7	TM1/20M	LCH	4.67	13	PASS
		MCH	4.67	13	PASS
		HCH	4.61	13	PASS
	TM2/20M	LCH	5.45	13	PASS
		MCH	5.54	13	PASS
		HCH	5.51	13	PASS



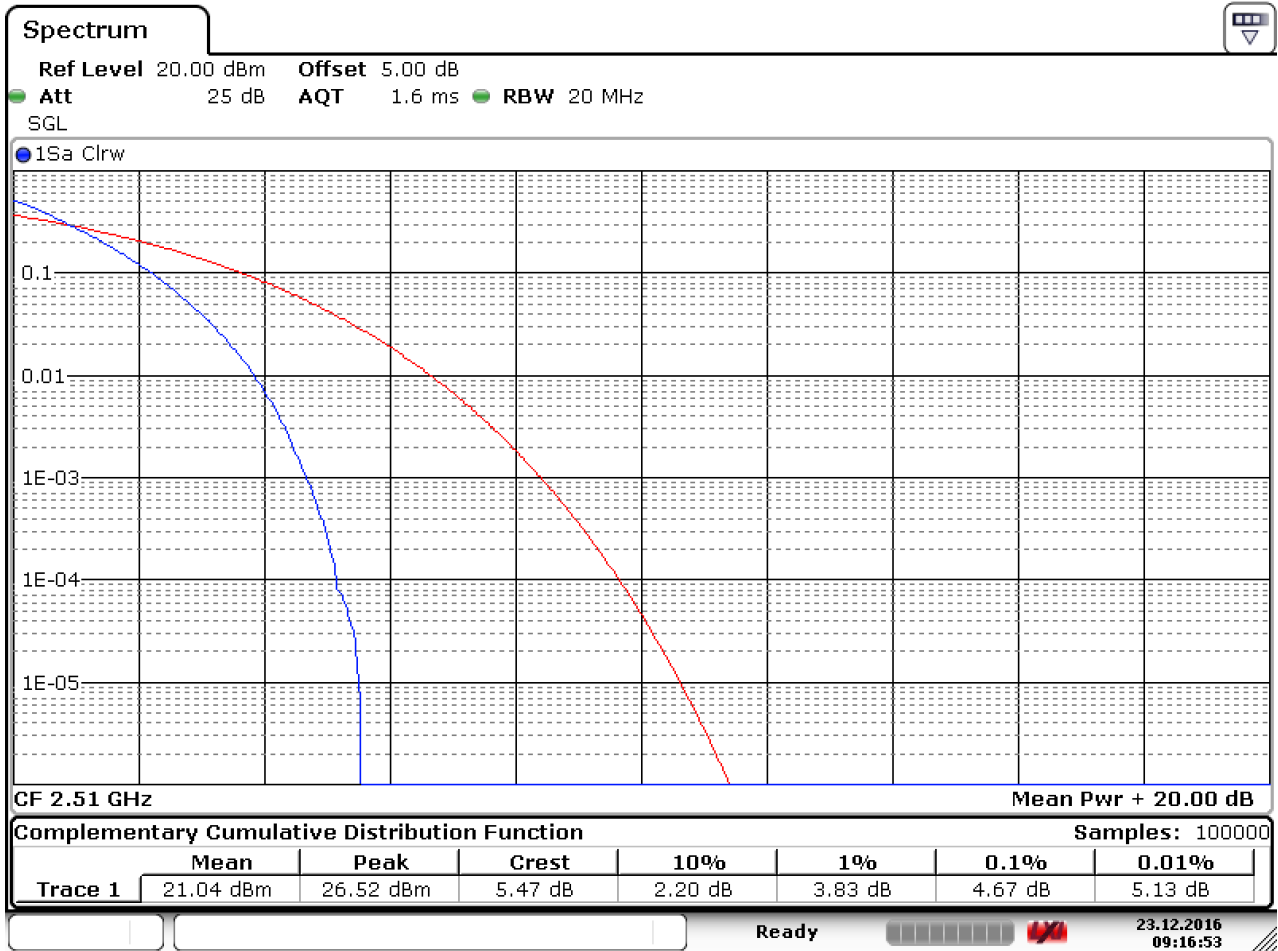
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

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

2.1.1.1.1 Test Channel = LCH

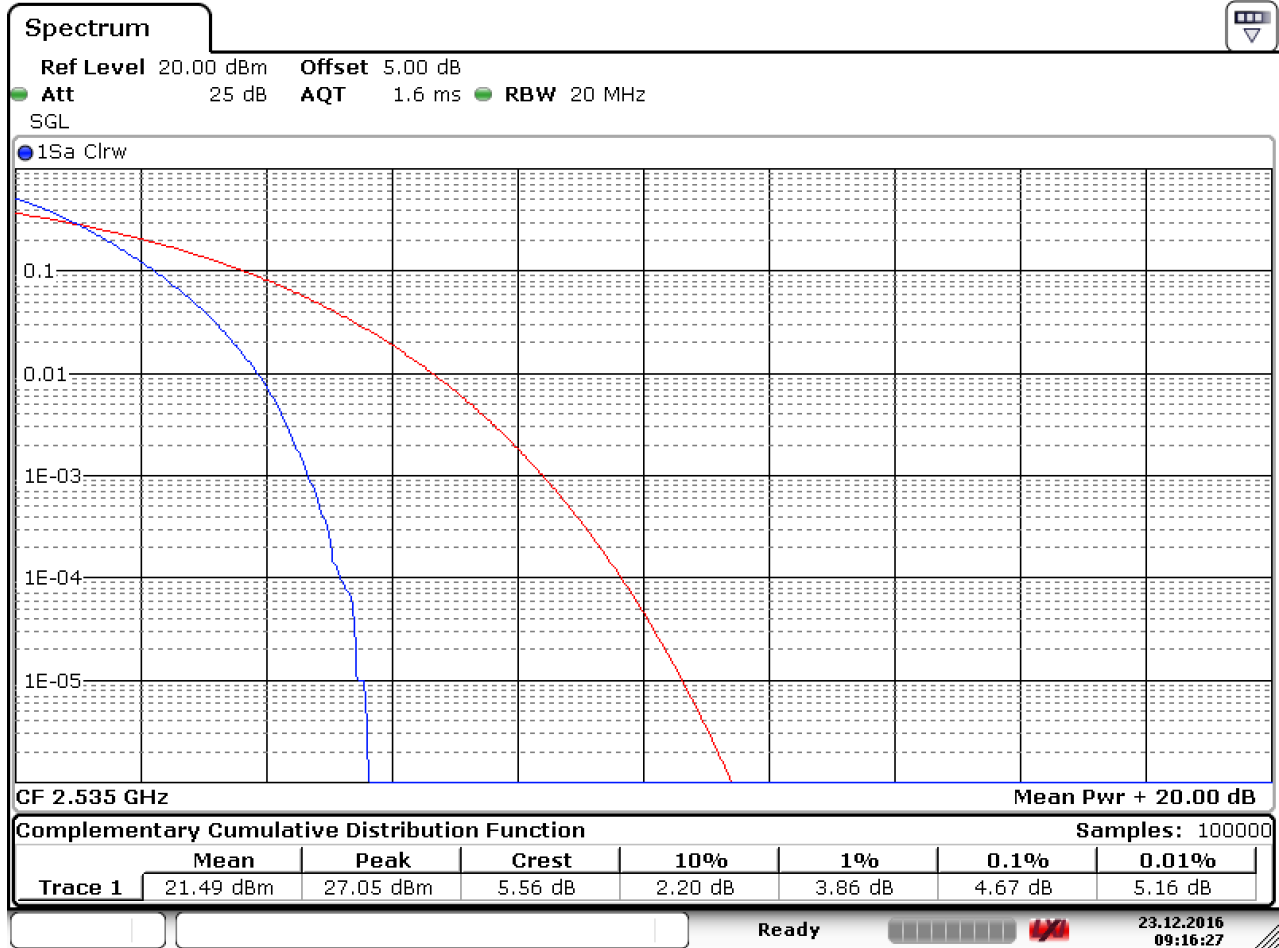


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2.1.1.1.2 Test Channel = MCH

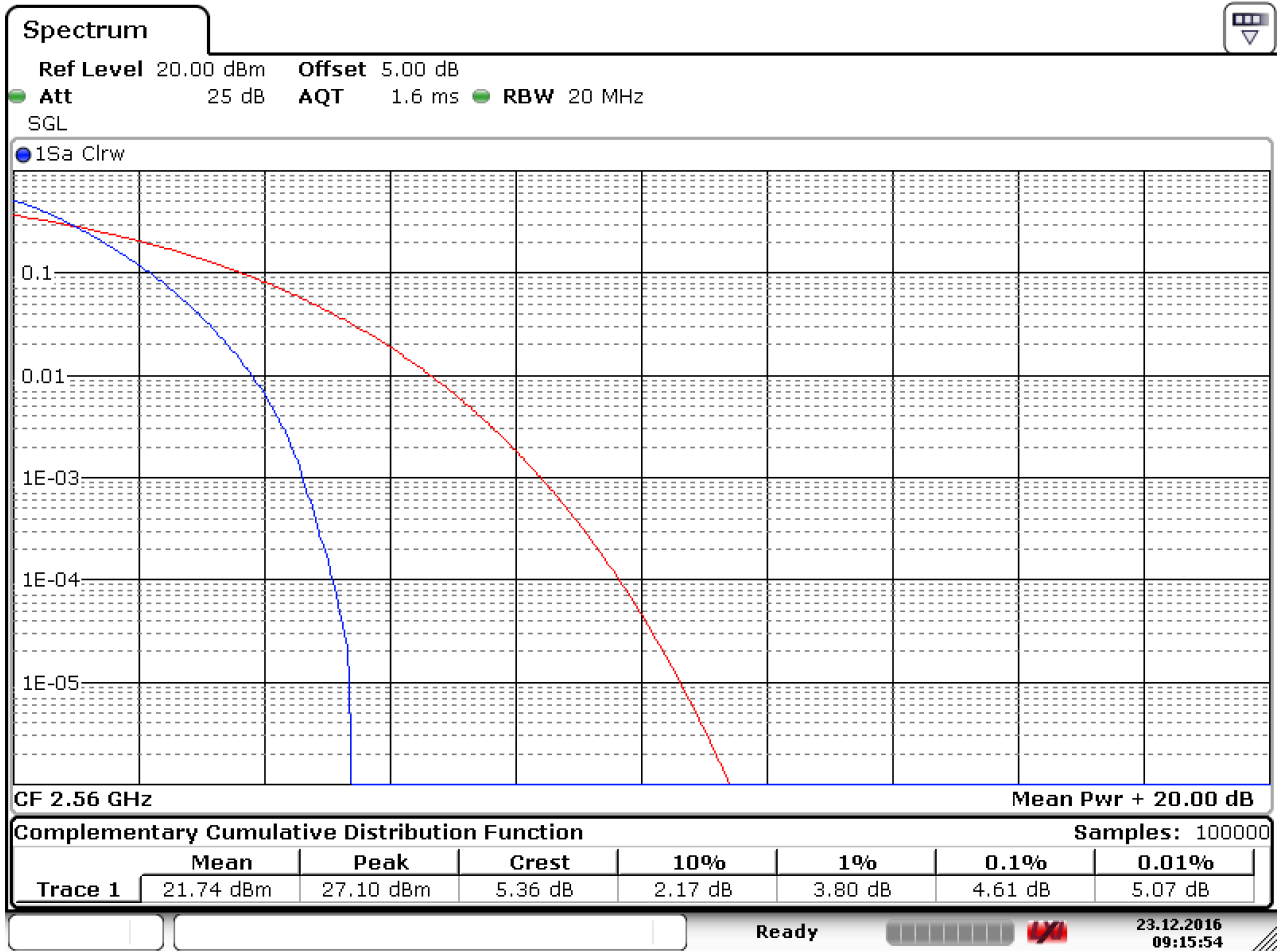


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2.1.1.1.3 Test Channel = HCH



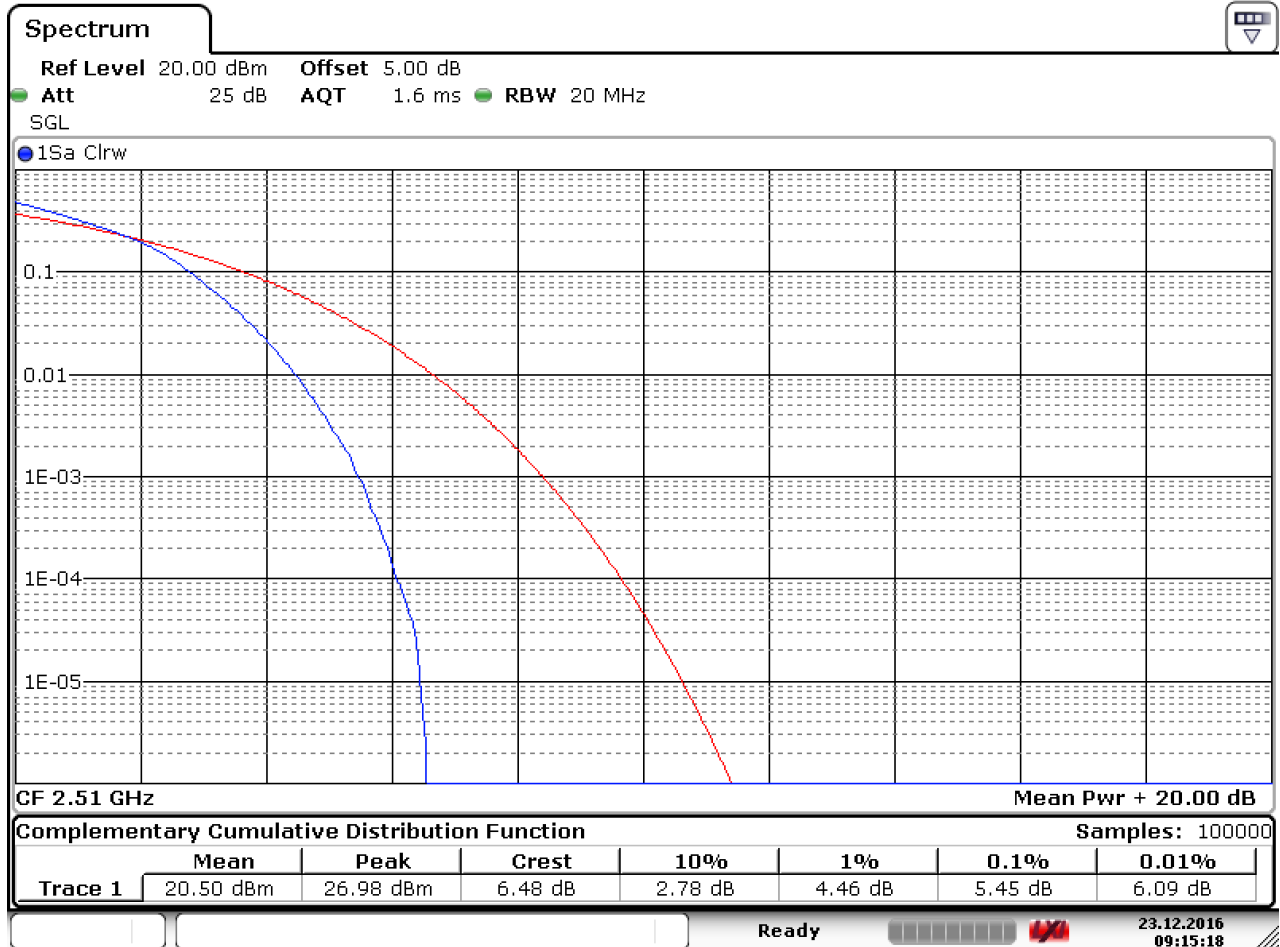
Date: 23.DEC.2016 09:15:54

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

2.1.1.2.1 Test Channel = LCH

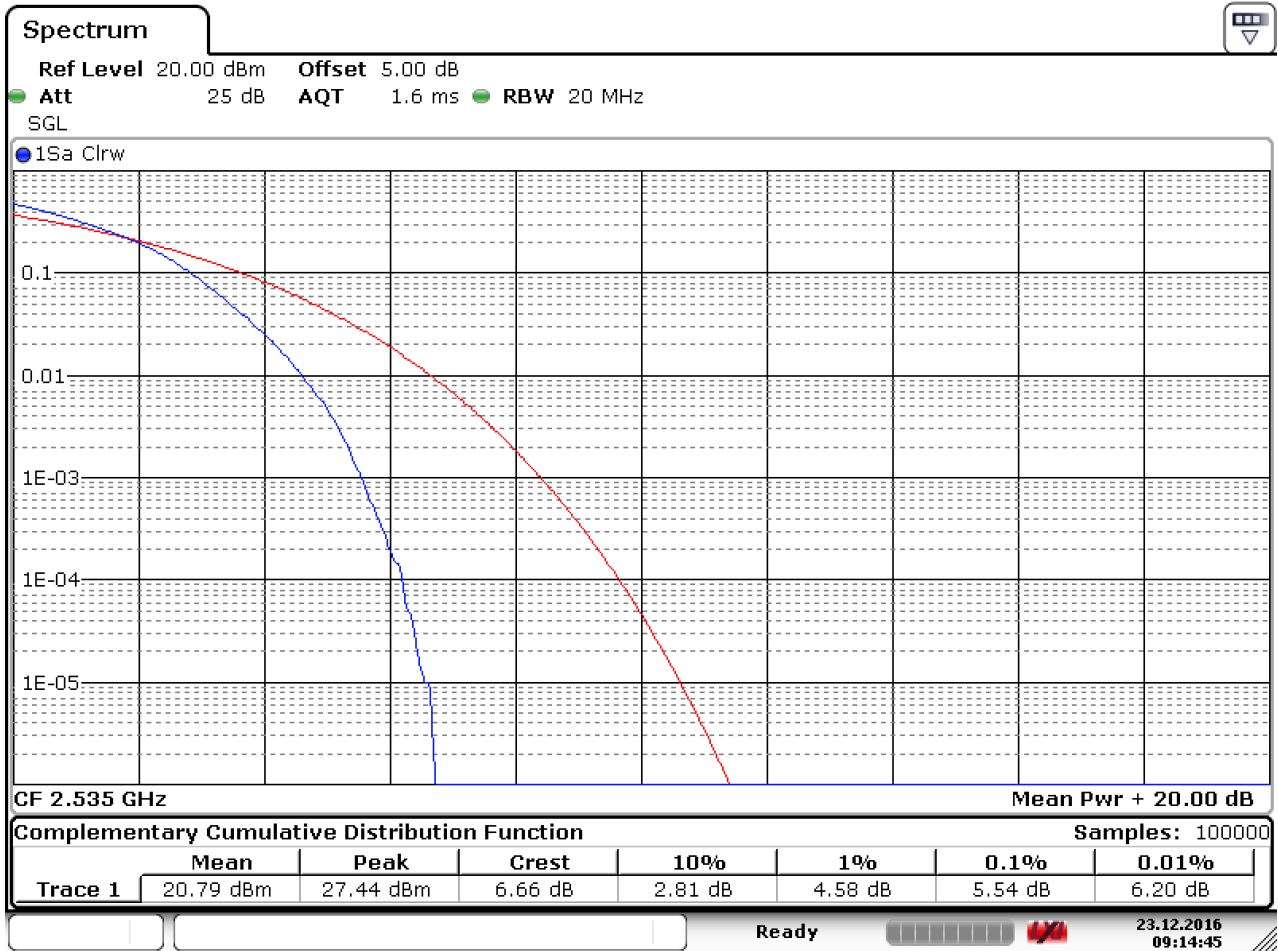


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2.1.1.2.2 Test Channel = MCH

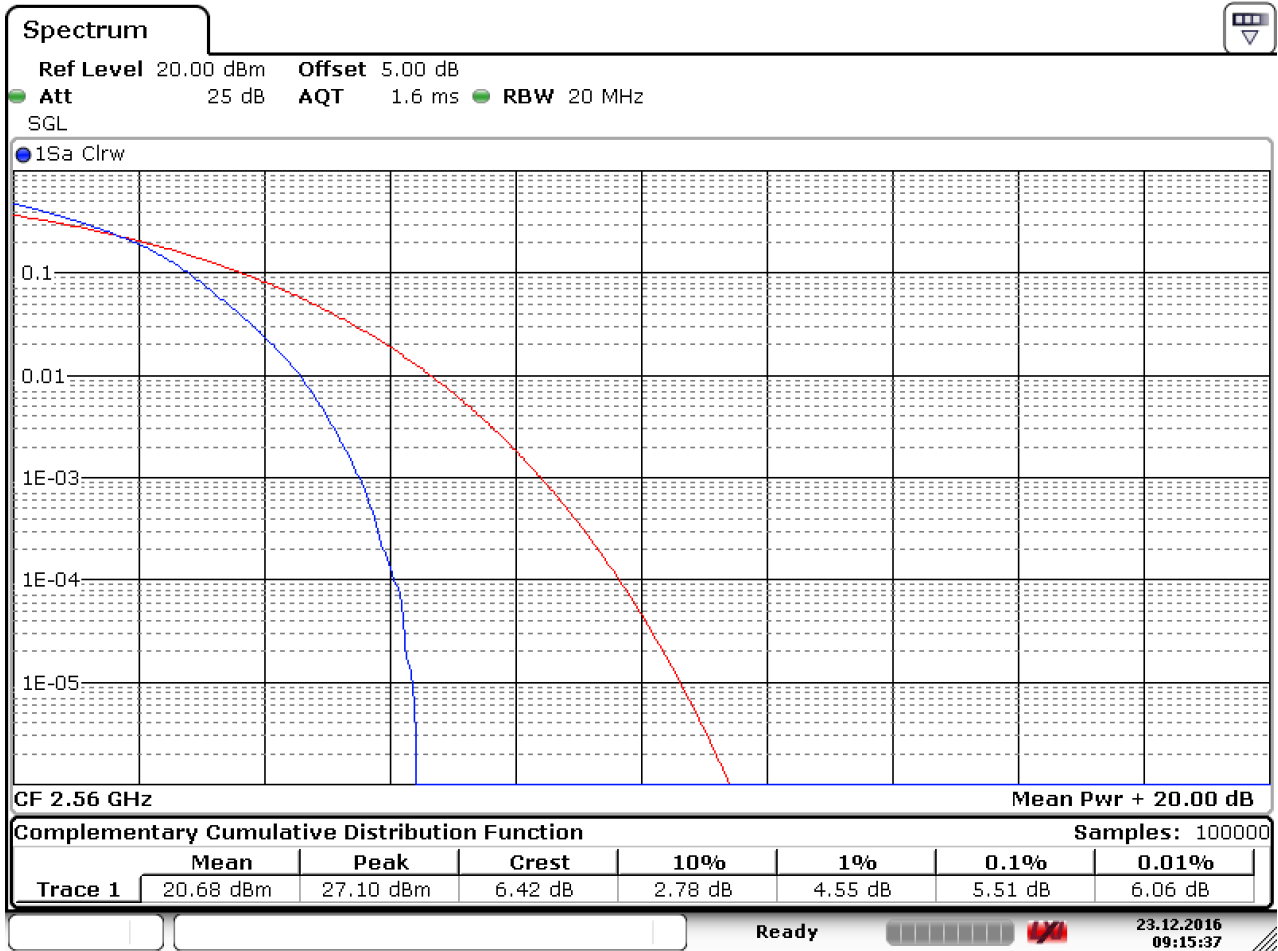


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2.1.1.2.3 Test Channel = HCH



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3 Modulation Characteristics

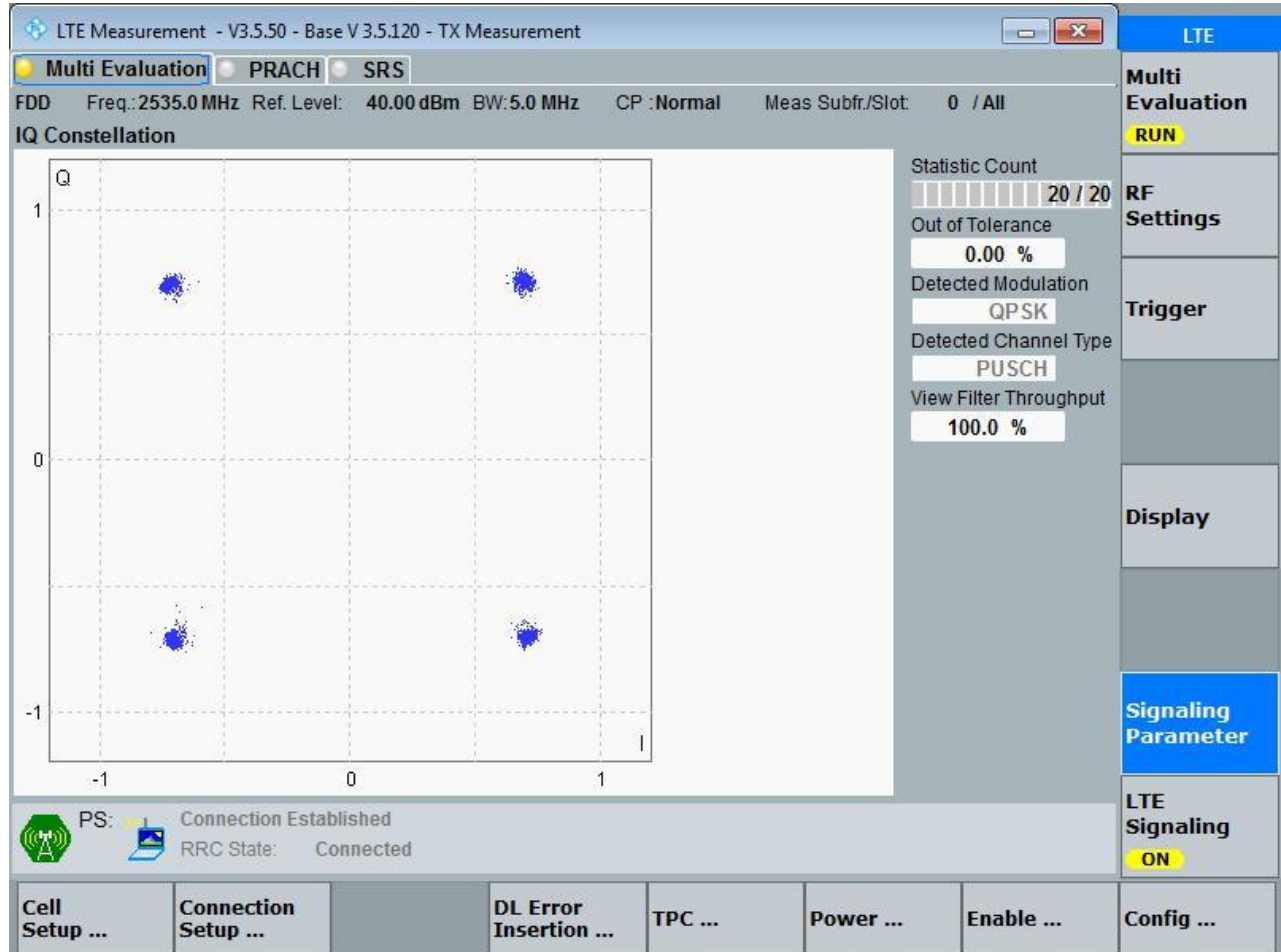
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

3.1.1.1 Test Mode = LTE /TM1 5MHz

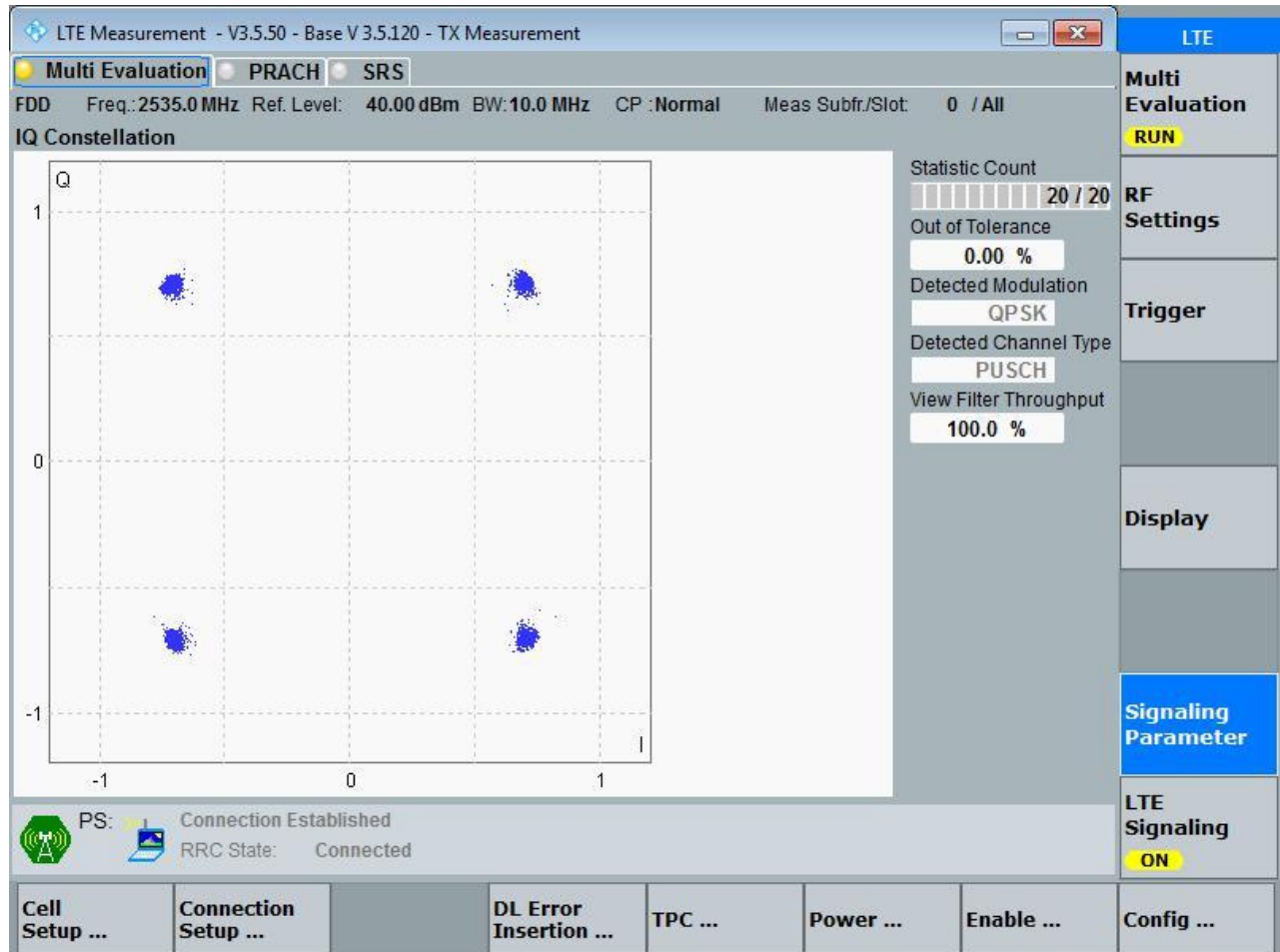
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

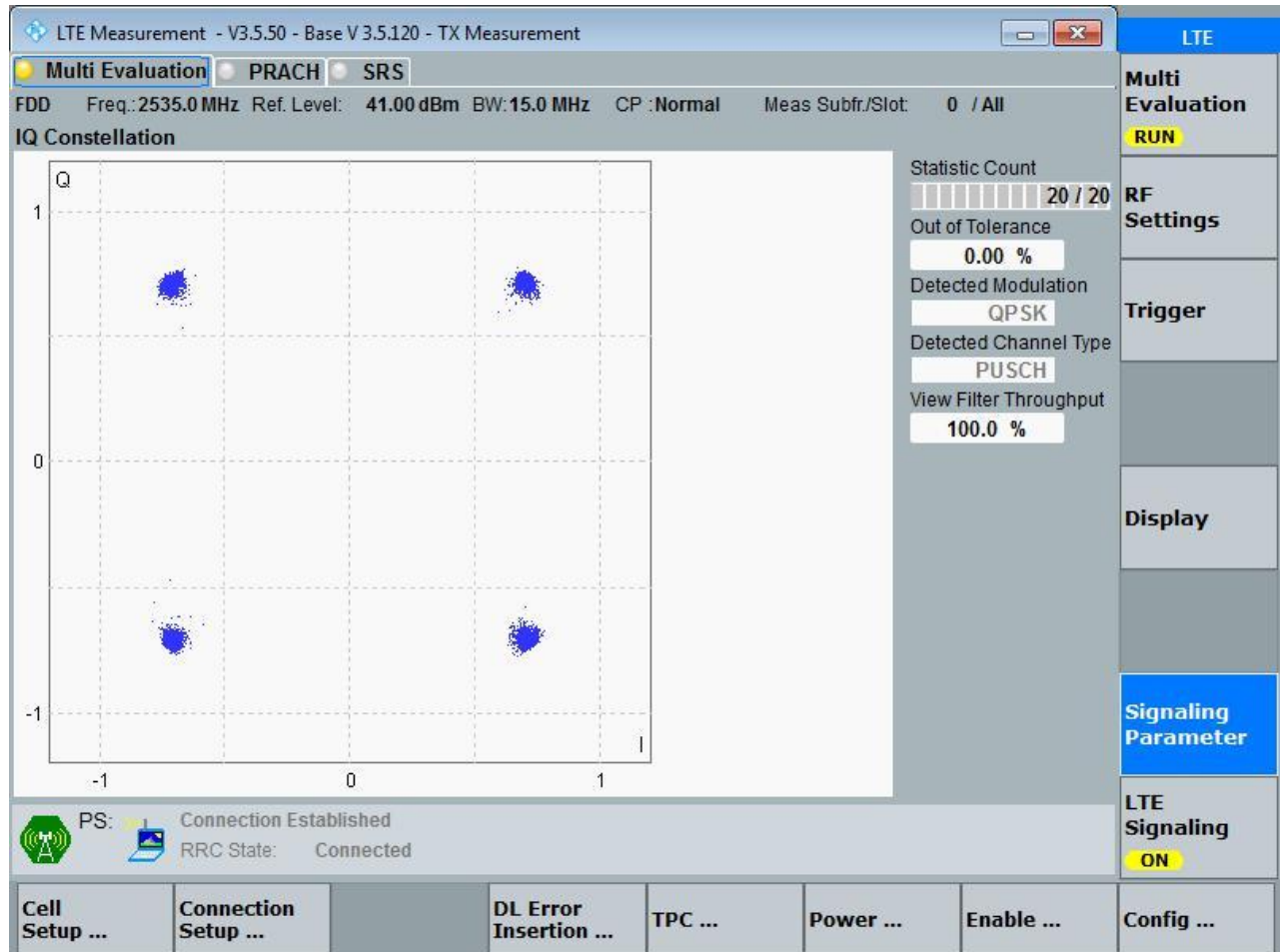
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 15MHz

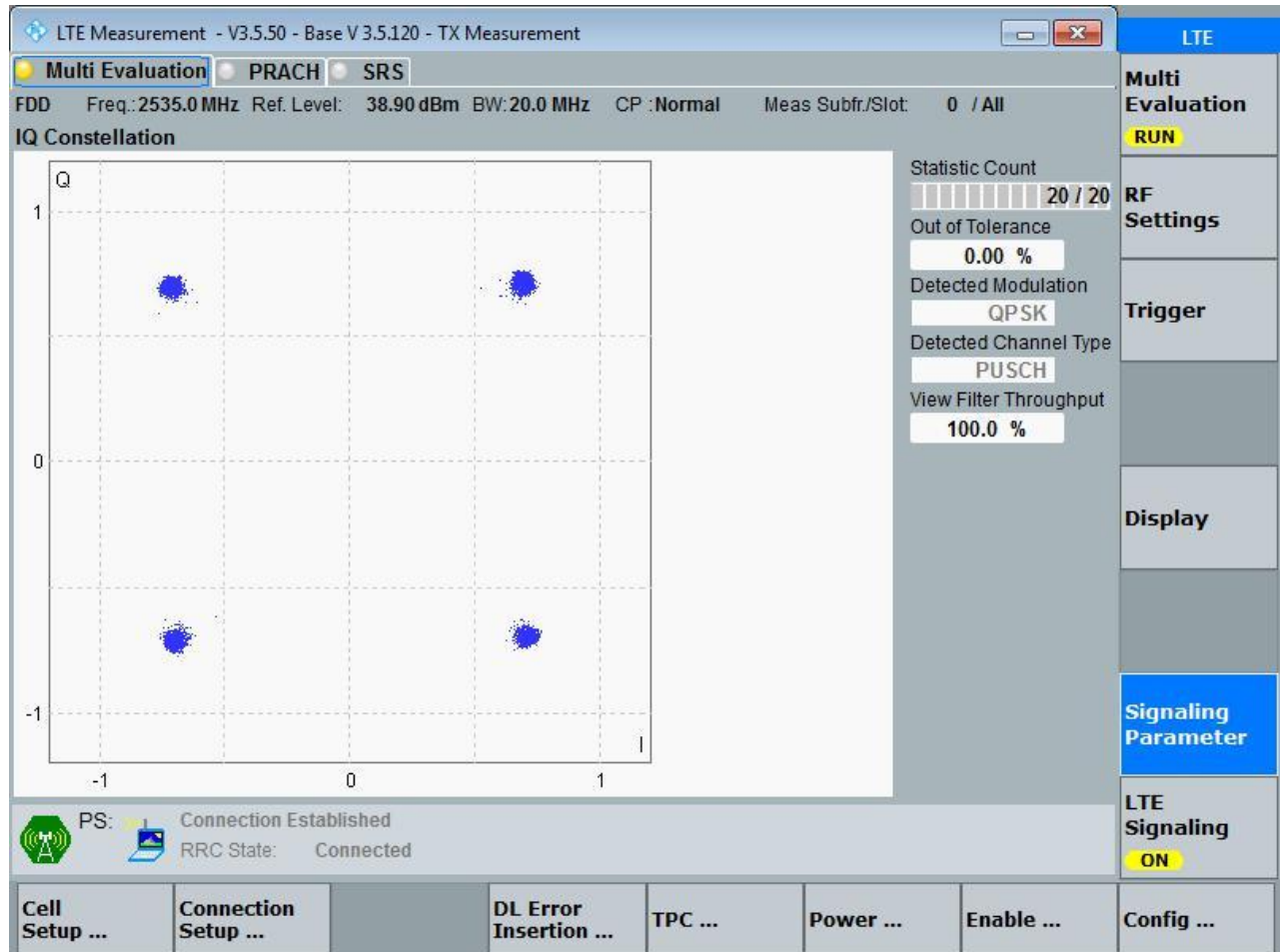
3.1.1.3.1 Test Channel = MCH





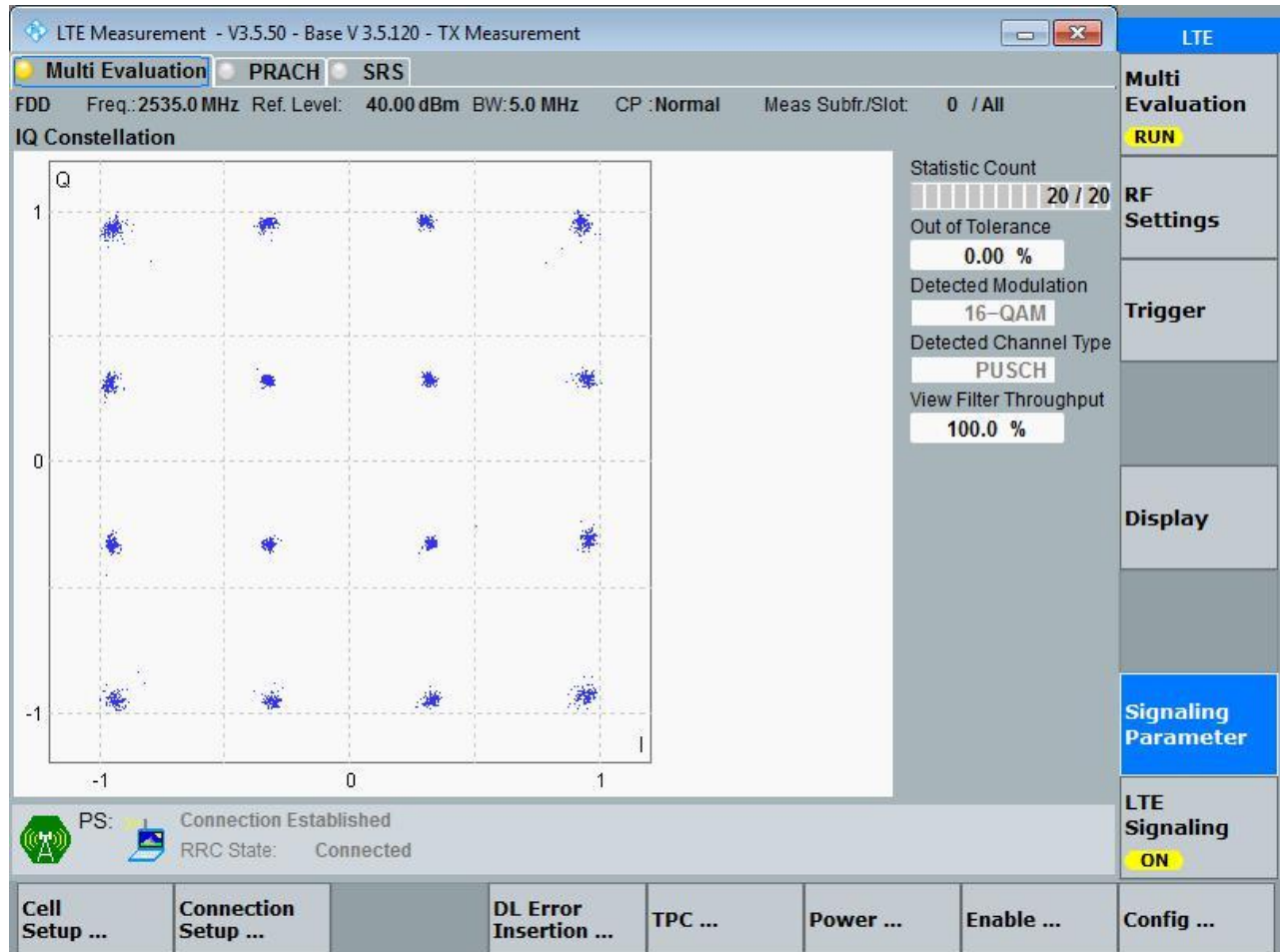
3.1.1.4 Test Mode = LTE /TM1 20MHz

3.1.1.4.1 Test Channel = MCH



3.1.1.5 Test Mode = LTE /TM2 5MHz

3.1.1.5.1 Test Channel = MCH



The screenshot displays the 'LTE 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 dots representing signal samples. To the right of the plot, a 'Statistic Count' bar shows 20/20, and 'Out of Tolerance' is 0.00%. Other parameters include 'Detected Modulation: 16-QAM' and 'Detected Channel Type: PUSCH'. The interface also features a status bar at the bottom with 'PS: Connection Established' and 'RRC State: Connected'. A sidebar on the right contains buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'. At the very bottom, there are several tabs: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.6 Test Mode = LTE /TM2 10MHz

3.1.1.6.1 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.: 2535.0 MHz Ref. Level: 40.00 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 16-QAM constellation with 16 distinct clusters of blue dots arranged in a 4x4 grid.

On the right side, 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 "100.0 %".

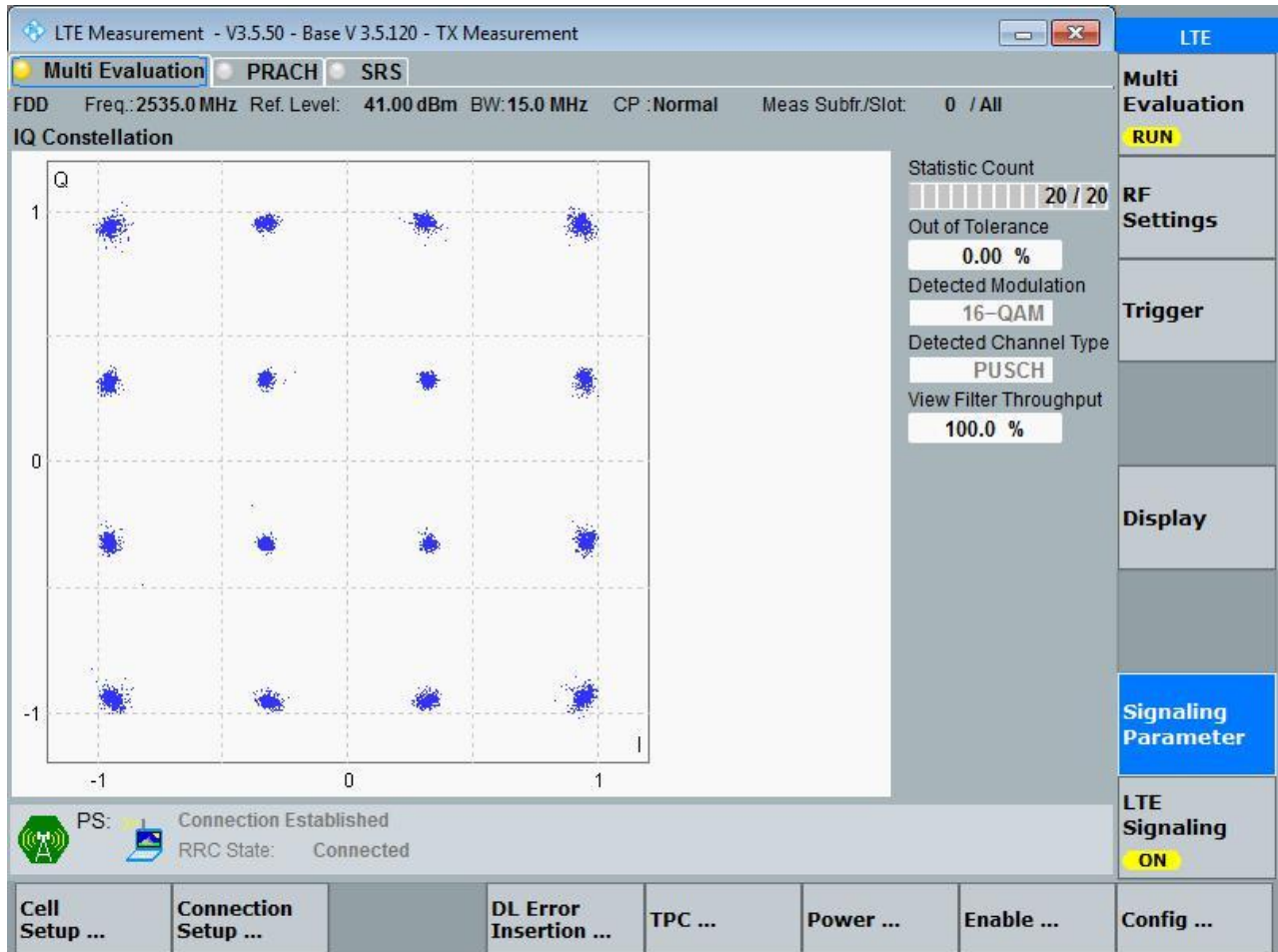
At the bottom left, there is a "PS:" icon and a "Connection Established" status. The "RRC State" is "Connected".

The bottom of the interface has a row of 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".

3.1.1.7 Test Mode = LTE /TM2 15MHz

3.1.1.7.1 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 shows the following parameters: FDD, Freq.: 2535.0 MHz, Ref. Level: 41.00 dBm, BW: 15.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM signal with points clustered around a grid. The right sidebar includes 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 shows "PS: Connection Established" and "RRC State: Connected". The bottom navigation bar contains buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



3.1.1.8 Test Mode = LTE /TM2 20MHz

3.1.1.8.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window shows an 'IQ Constellation' plot with a grid of points, indicating a 16-QAM modulation scheme. The plot axes range from -1 to 1 on both the real (I) and imaginary (Q) axes. To the right of the plot, a 'Statistic Count' bar shows 20/20 samples, with 'Out of Tolerance' at 0.00%. Other parameters include 'Detected Modulation: 16-QAM', 'Detected Channel Type: PUSCH', and 'View Filter Throughput: 100.0%'. The interface includes a top menu bar with 'Multi Evaluation', 'PRACH', and 'SRS' options. A status bar at the bottom indicates 'Connection Established' and 'RRC State: Connected'. A vertical toolbar on the right contains buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'. At the bottom, there are several tabs for '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 7	TM1/ 5MHz	LCH	4.50	5.00	PASS
		MCH	4.50	5.00	PASS
		HCH	4.48	5.00	PASS
	TM2/ 5MHz	LCH	4.50	5.00	PASS
		MCH	4.49	4.95	PASS
		HCH	4.49	5.00	PASS
	TM1/10MHz	LCH	8.95	9.73	PASS
		MCH	8.97	9.88	PASS
		HCH	8.95	9.79	PASS
	TM2/ 10MHz	LCH	8.95	9.77	PASS
		MCH	8.95	9.66	PASS
		HCH	8.97	9.75	PASS
	TM1/ 15MHz	LCH	13.49	15.02	PASS
		MCH	13.49	14.98	PASS
		HCH	13.49	15.02	PASS
	TM2/ 15MHz	LCH	13.55	14.90	PASS
		MCH	13.49	14.83	PASS
		HCH	13.49	14.99	PASS
	TM1/ 20MHz	LCH	17.94	19.62	PASS
		MCH	17.94	19.42	PASS
		HCH	17.98	19.66	PASS
TM2/ 20MHz	LCH	17.98	19.74	PASS	
	MCH	17.94	19.46	PASS	
	HCH	17.90	19.46	PASS	

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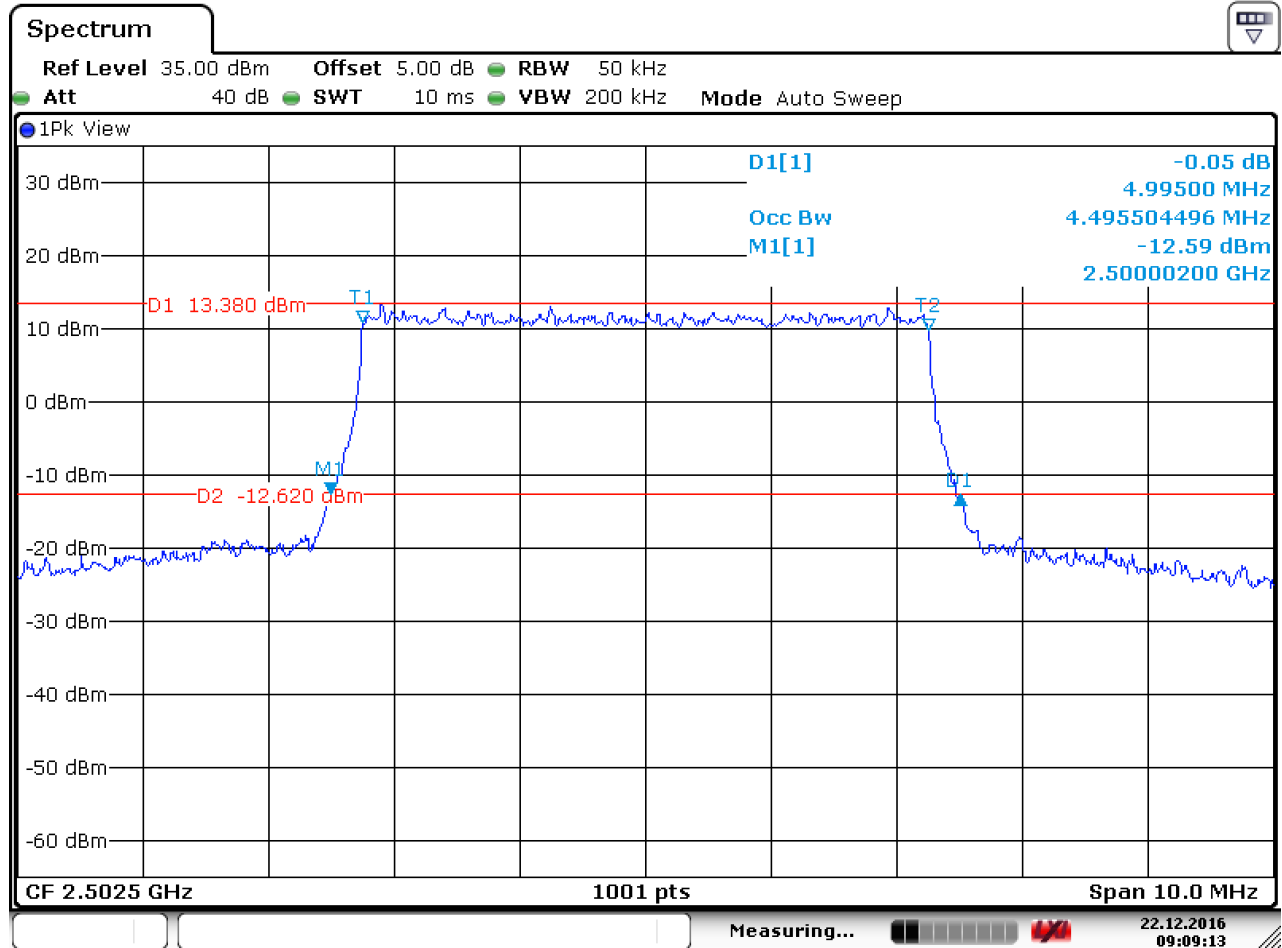


4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

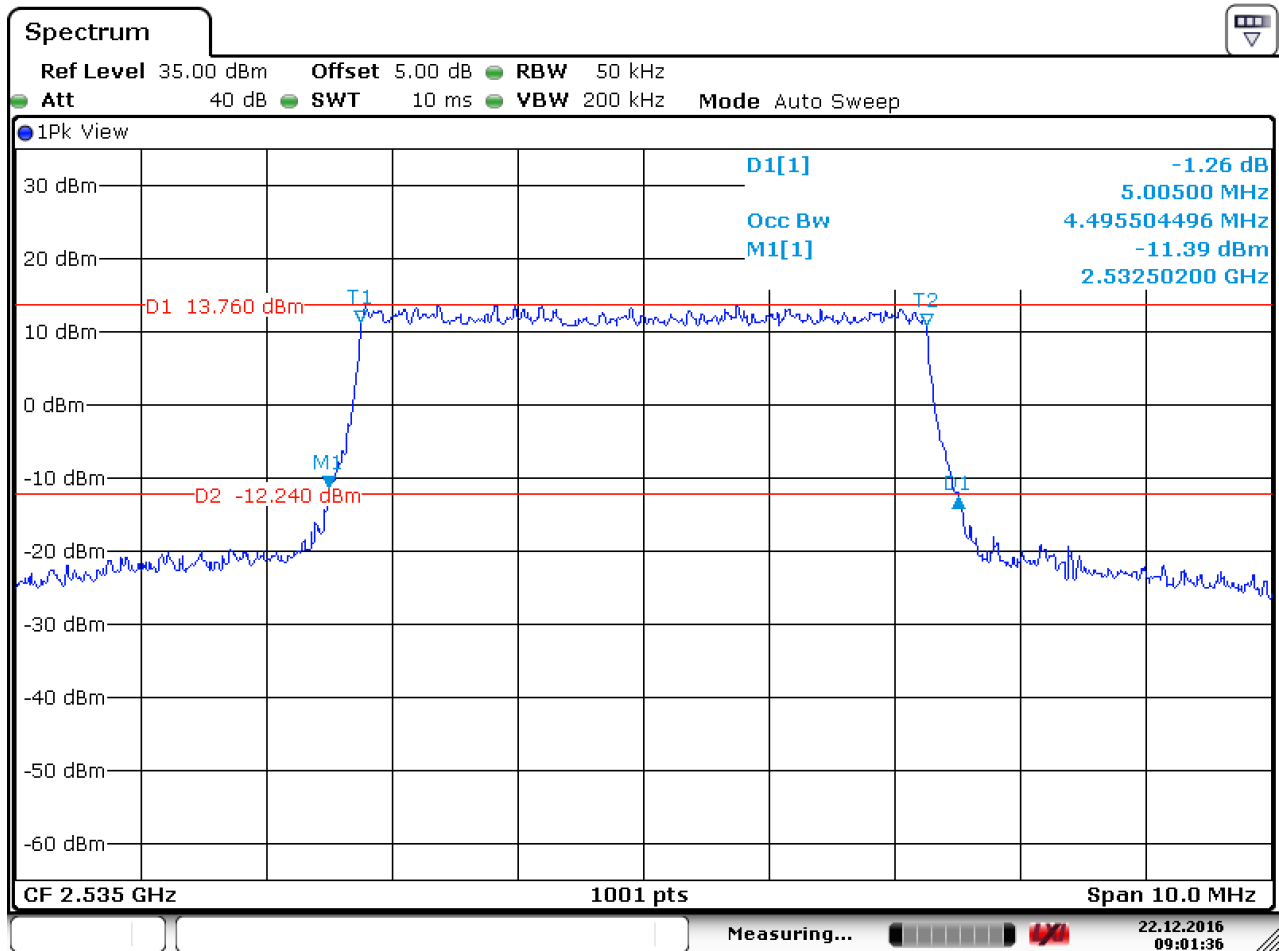
4.1.1.1.1 Test Channel = LCH



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4.1.1.1.2 Test Channel = MCH

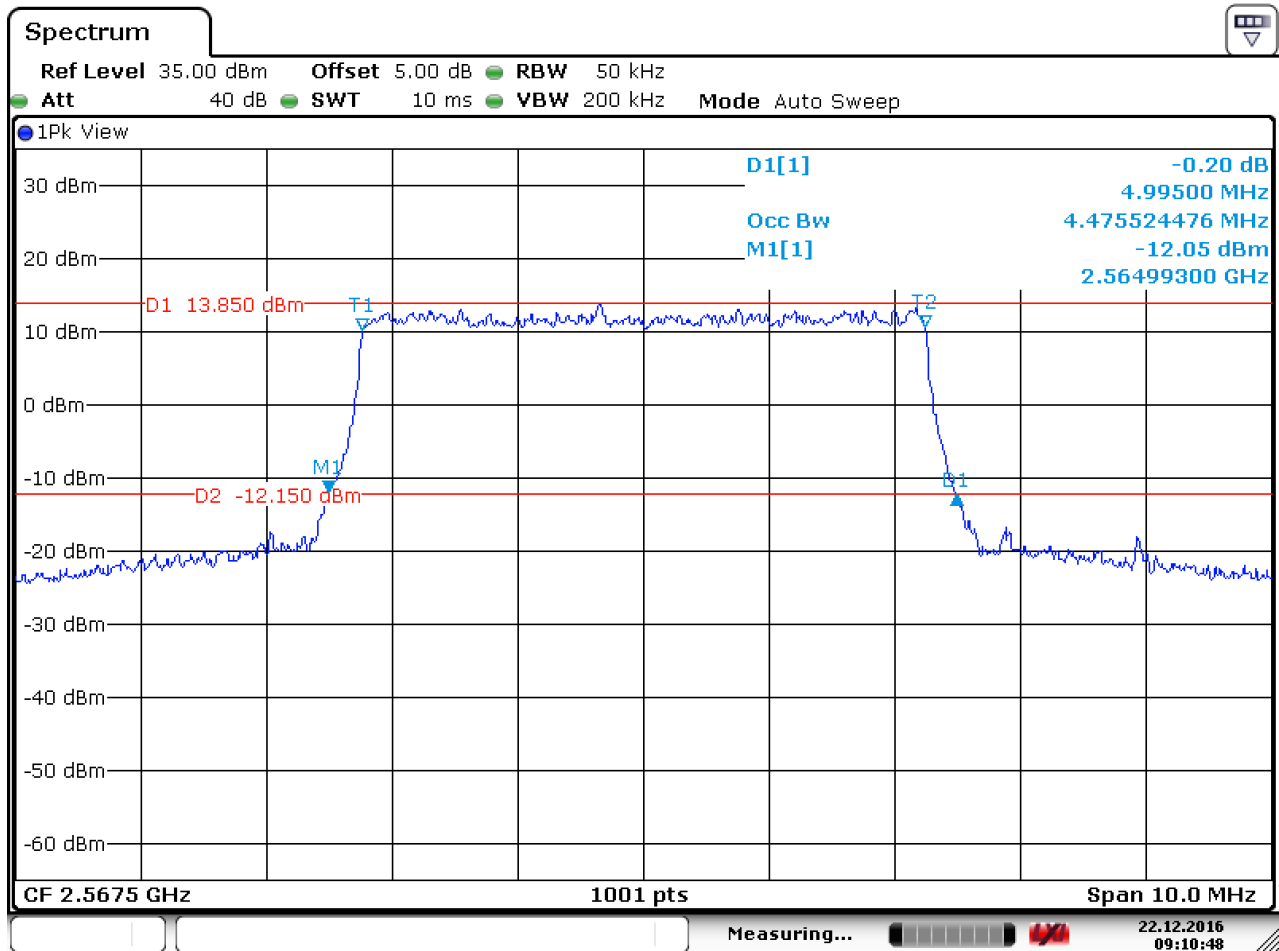


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4.1.1.1.3 Test Channel = HCH



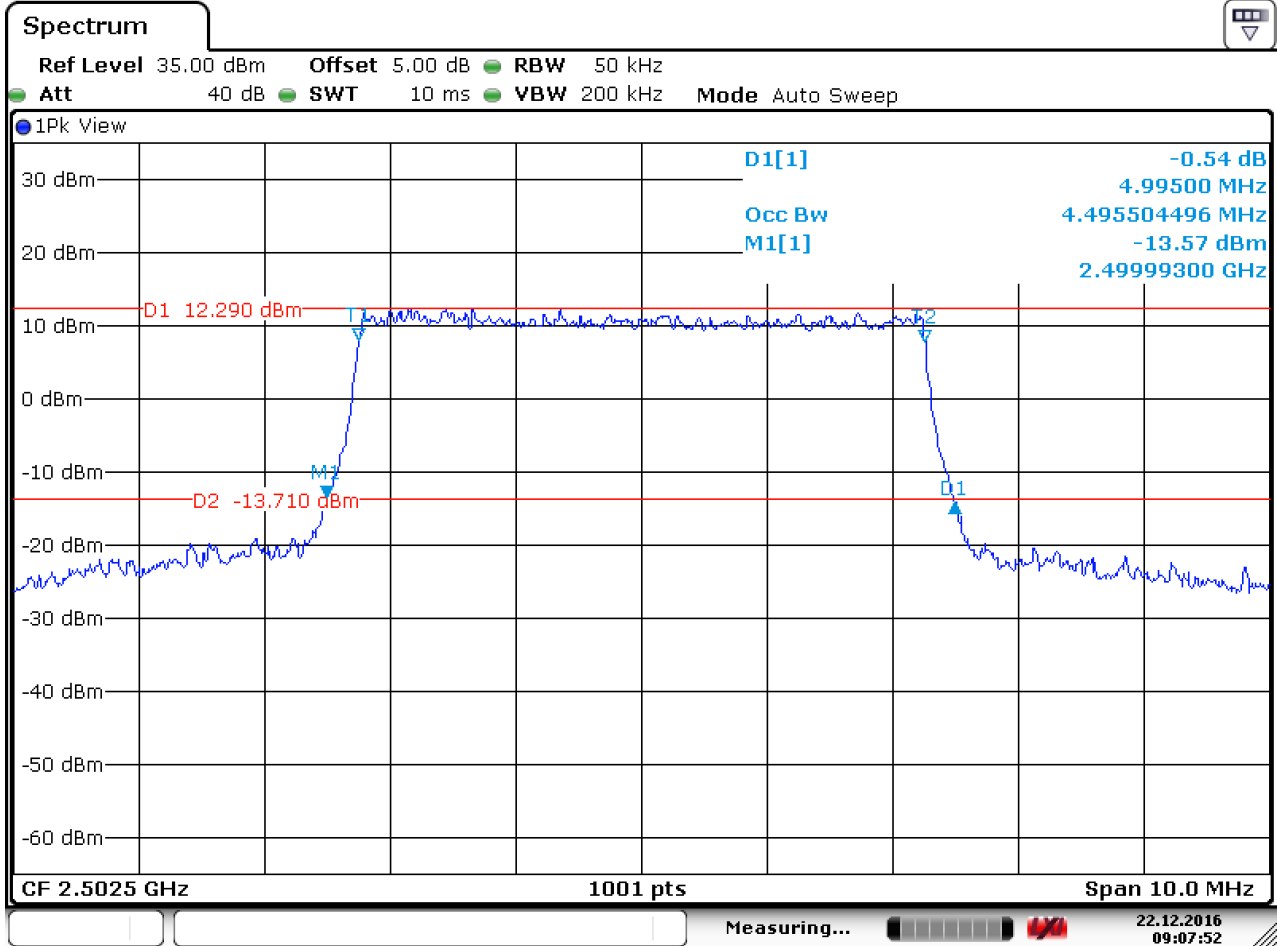
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4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

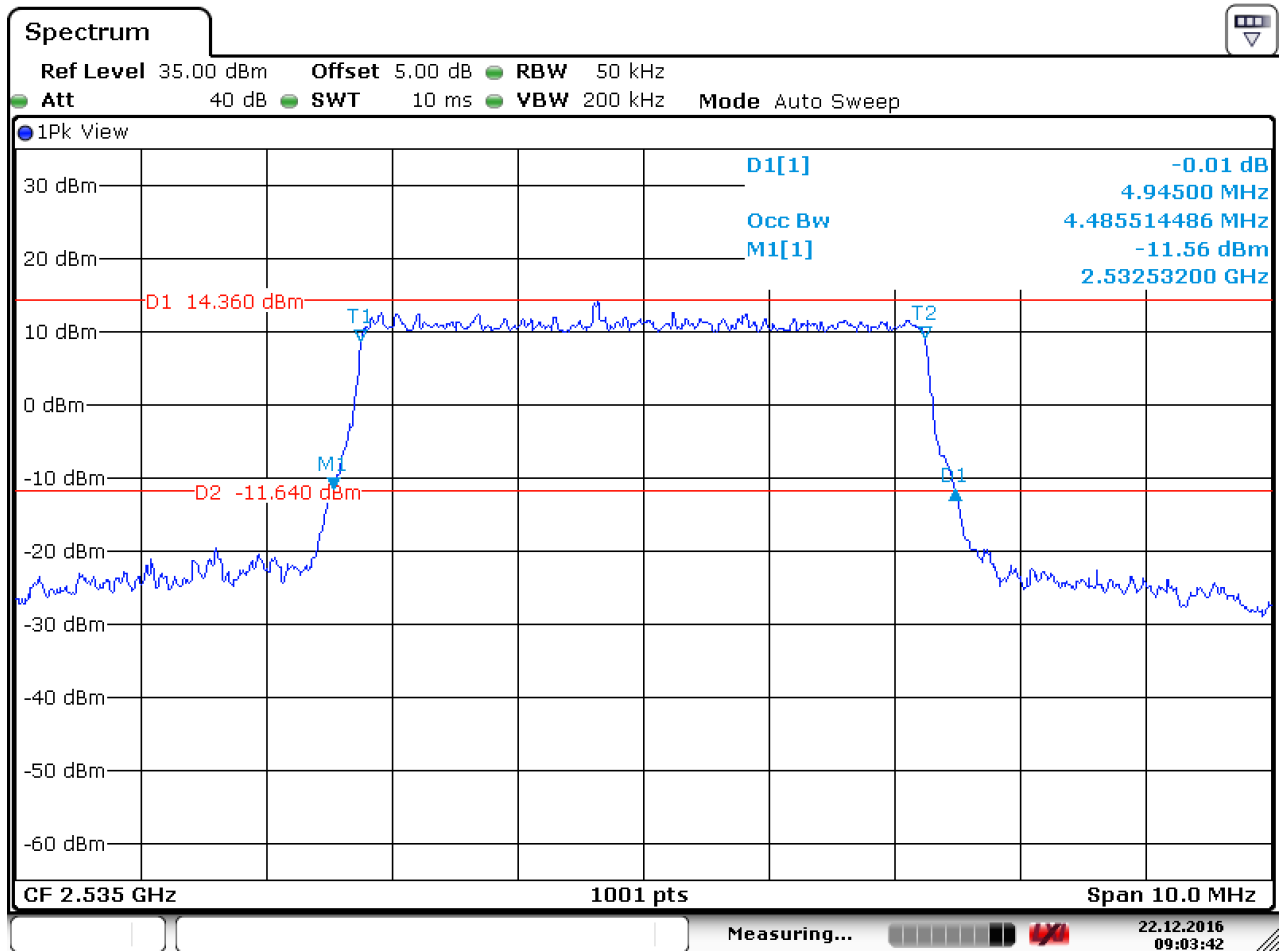


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4.1.1.2.2 Test Channel = MCH

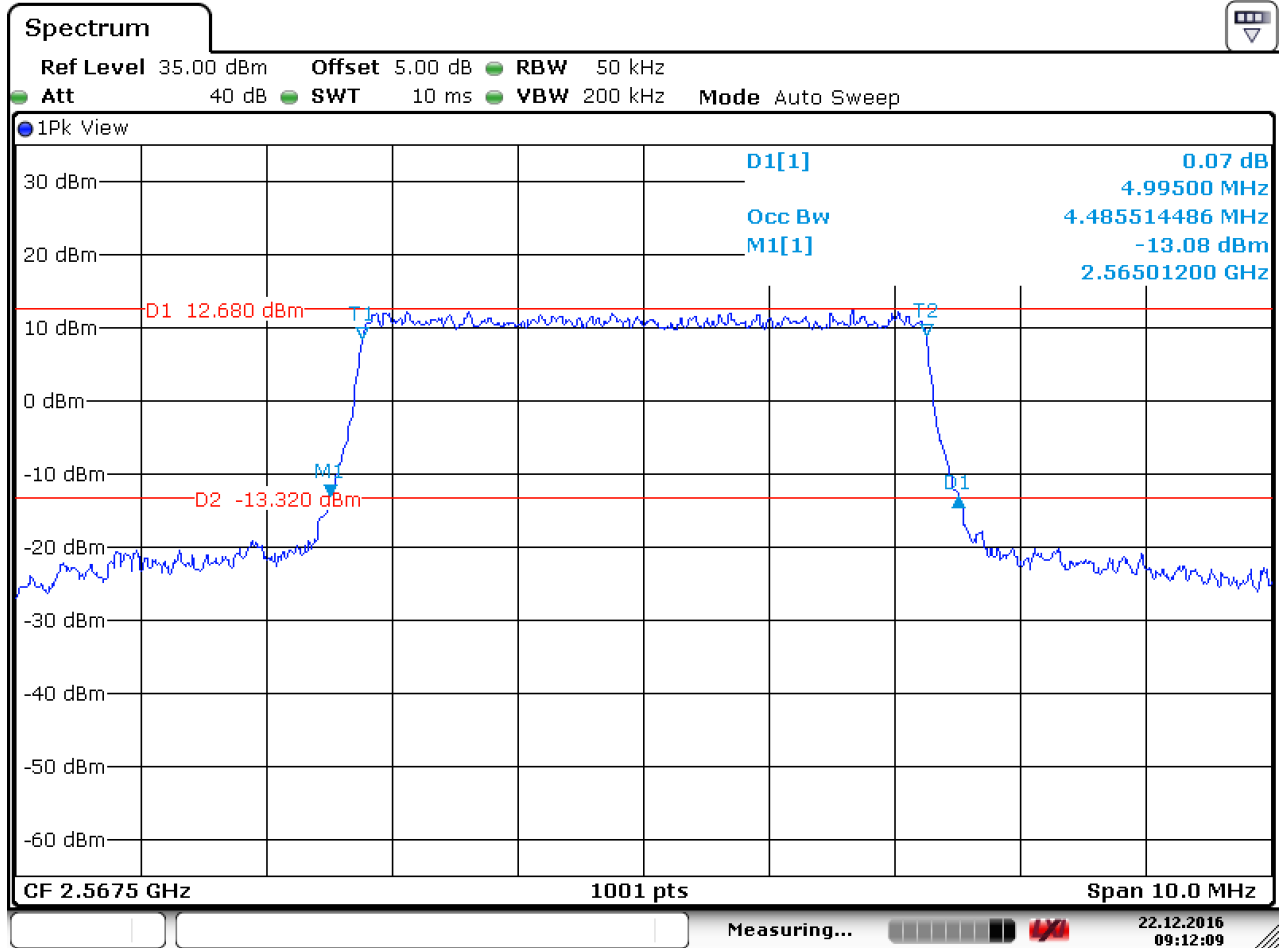


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4.1.1.2.3 Test Channel = HCH



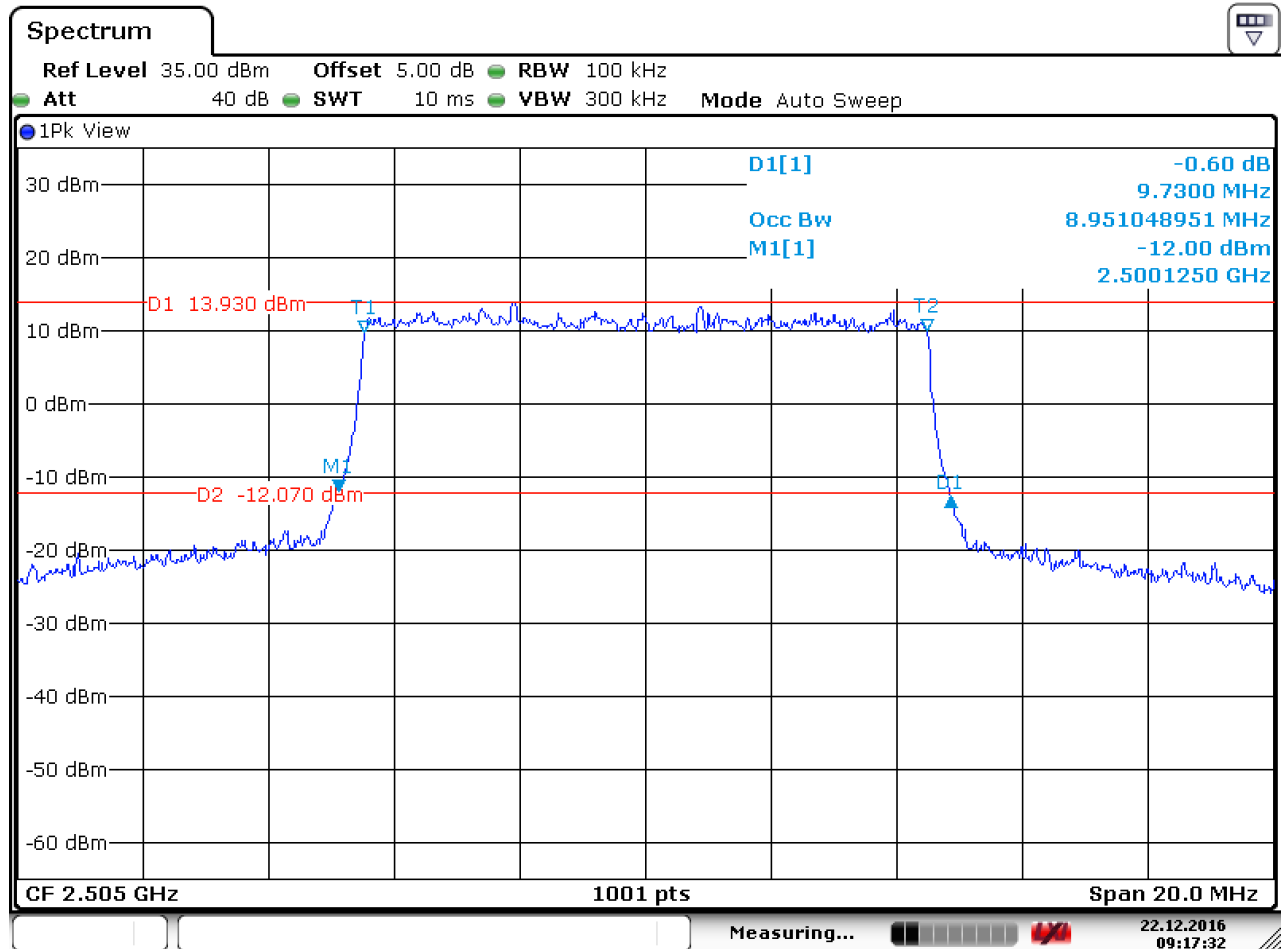
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4.1.1.3 Test Mode = LTE/TM1 10MHz

4.1.1.3.1 Test Channel = LCH

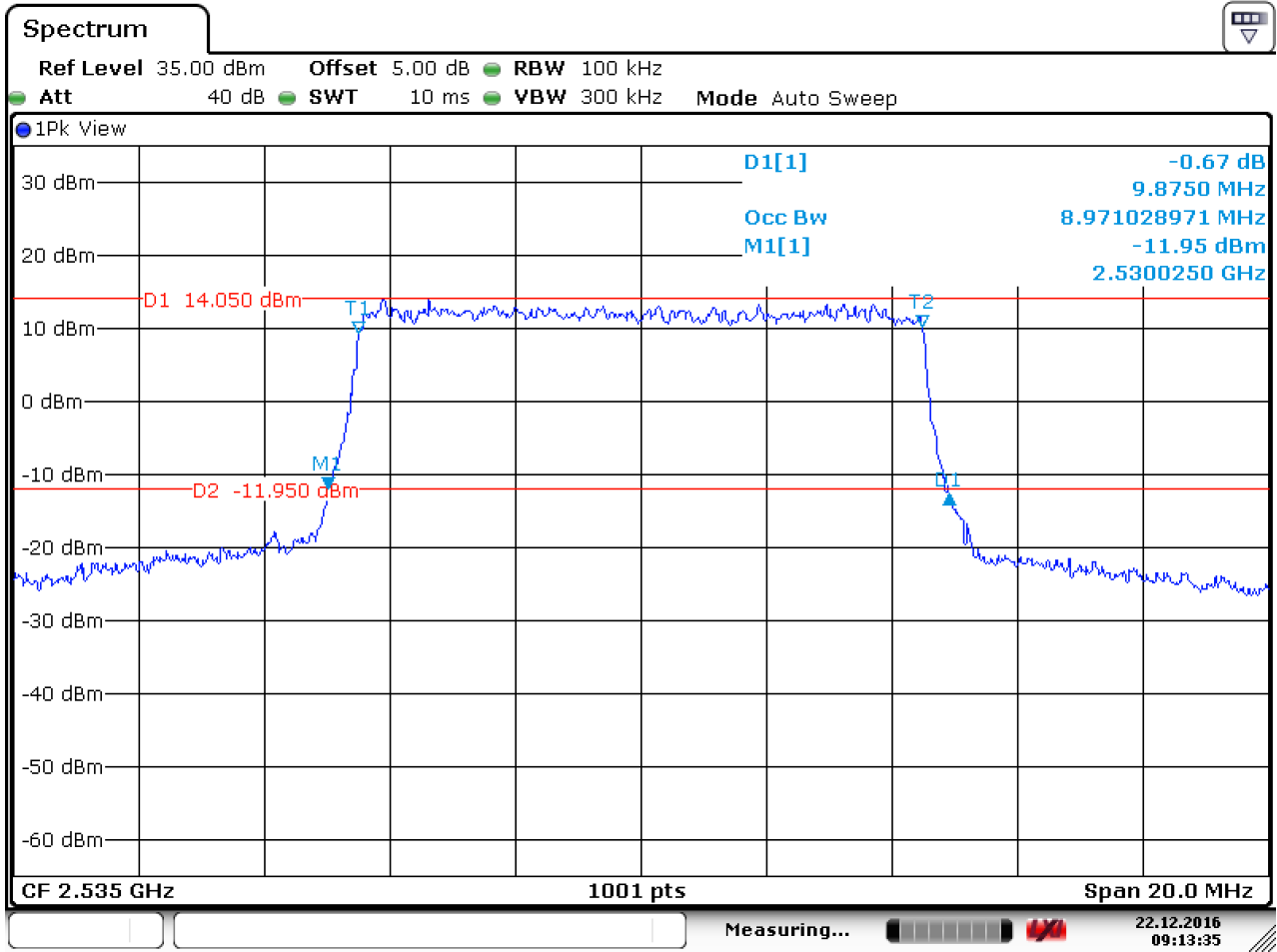


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4.1.1.3.2 Test Channel = MCH

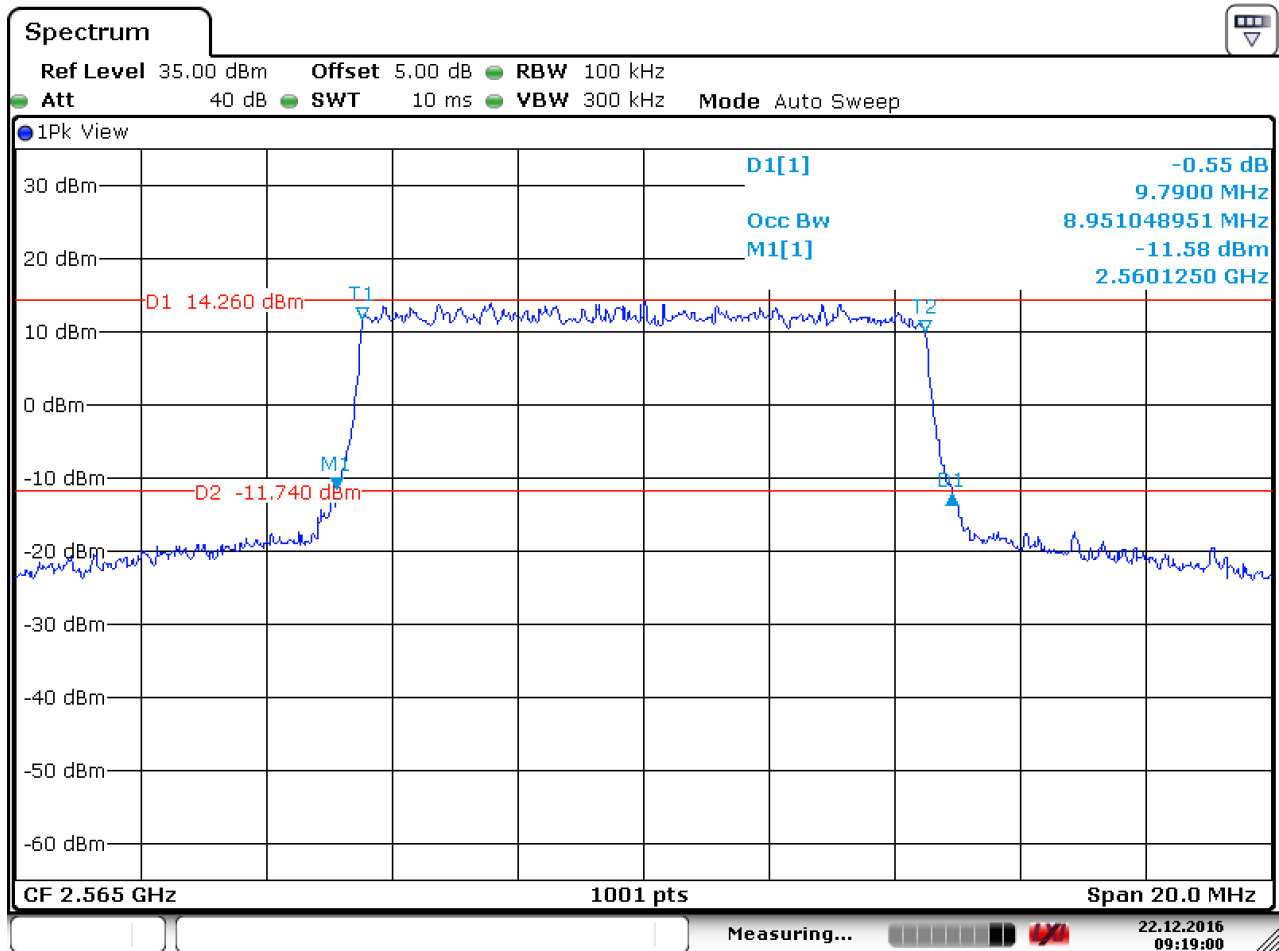


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4.1.1.3.3 Test Channel = HCH



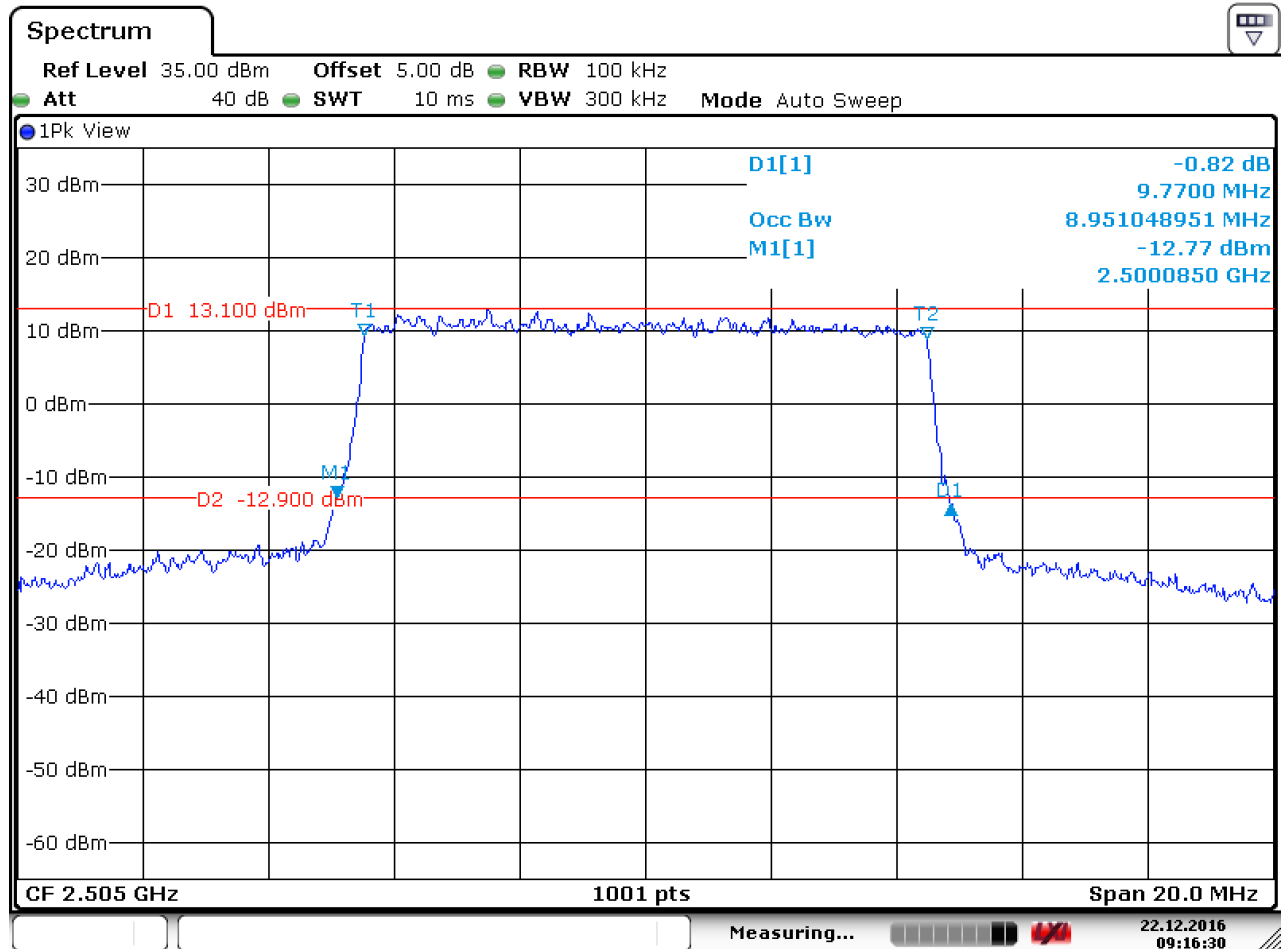
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4.1.1.4 Test Mode = LTE/TM2 10MHz

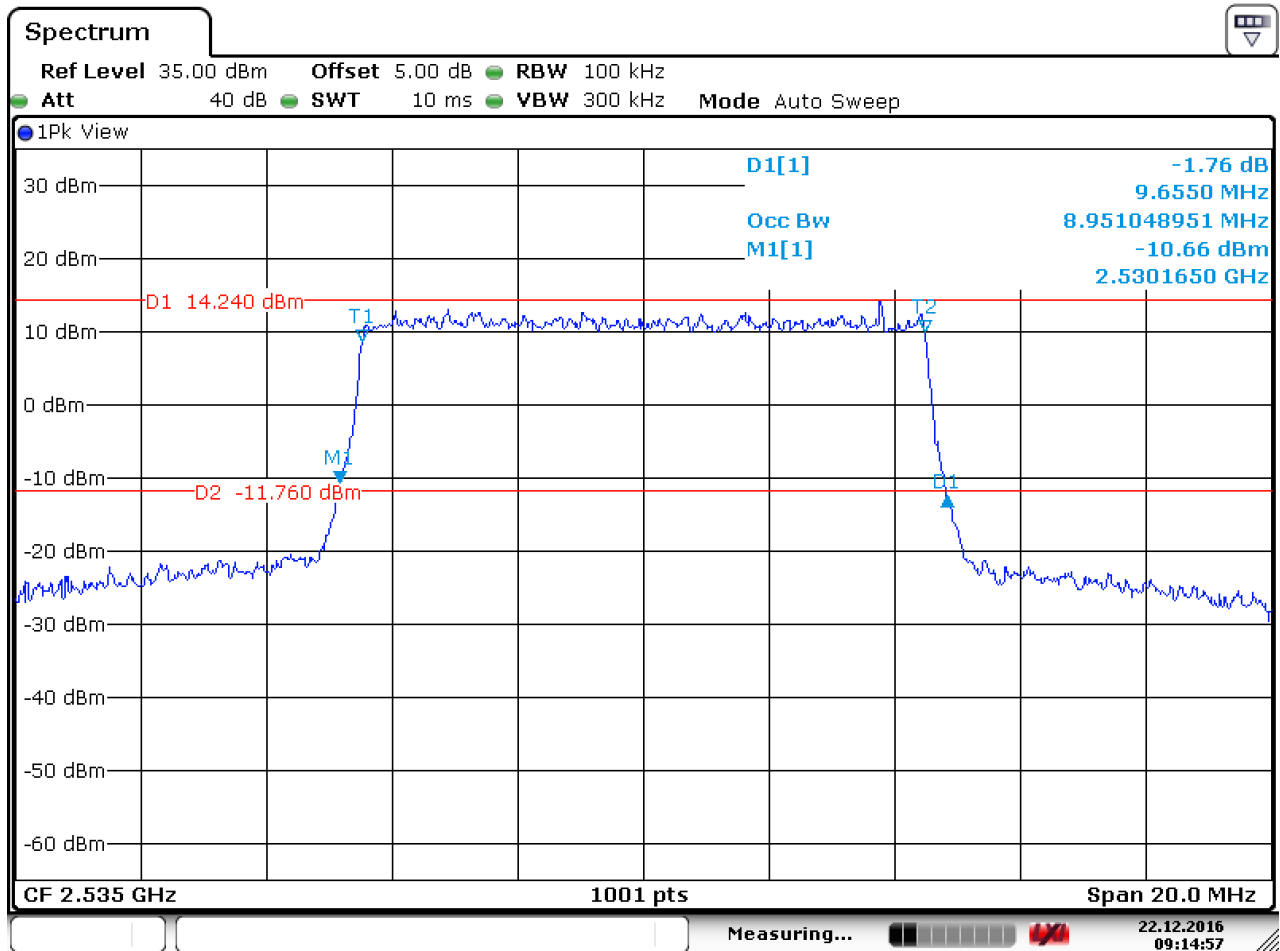
4.1.1.4.1 Test Channel = LCH



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4.1.1.4.2 Test Channel = MCH

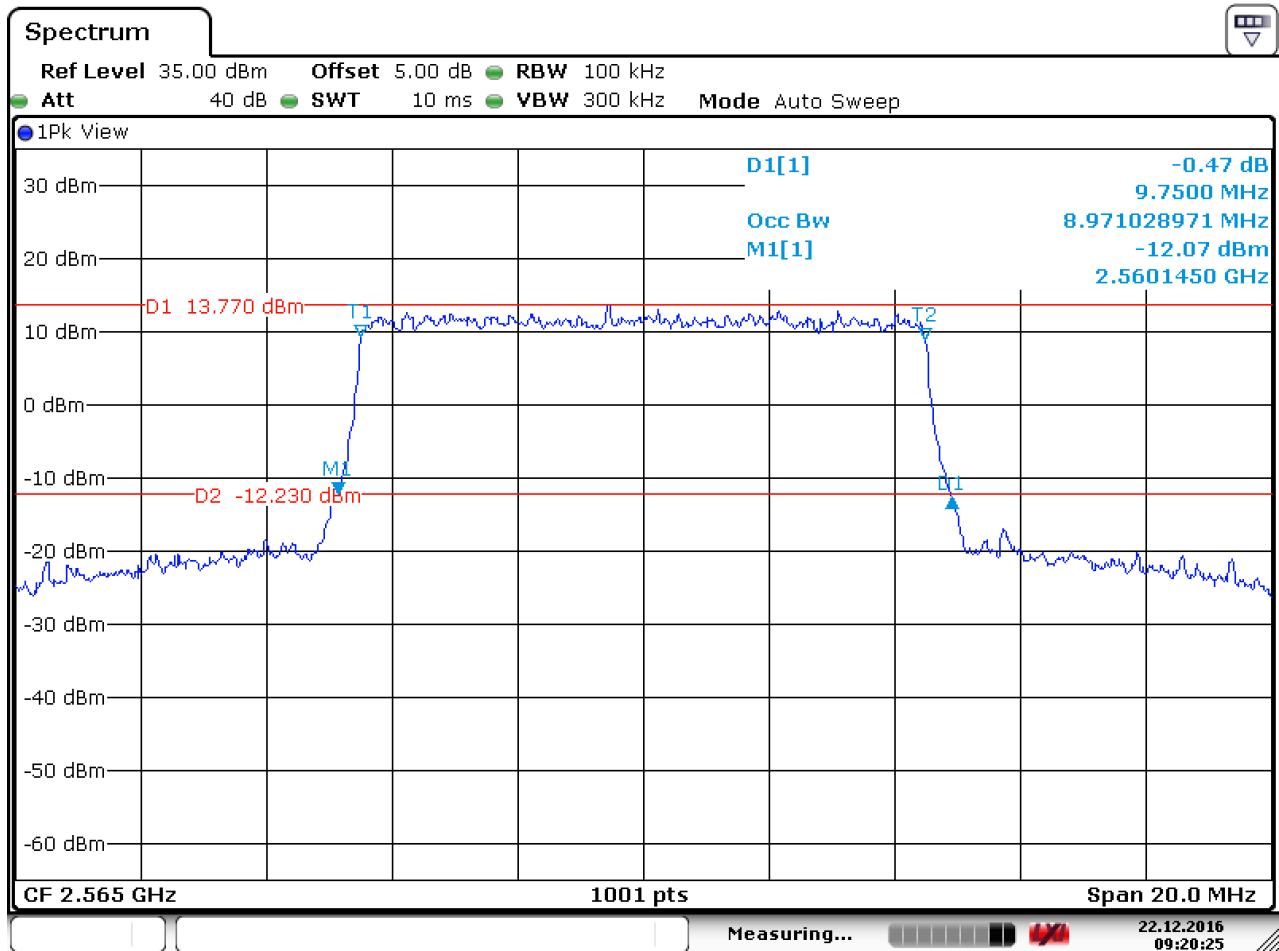


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4.1.1.4.3 Test Channel = HCH



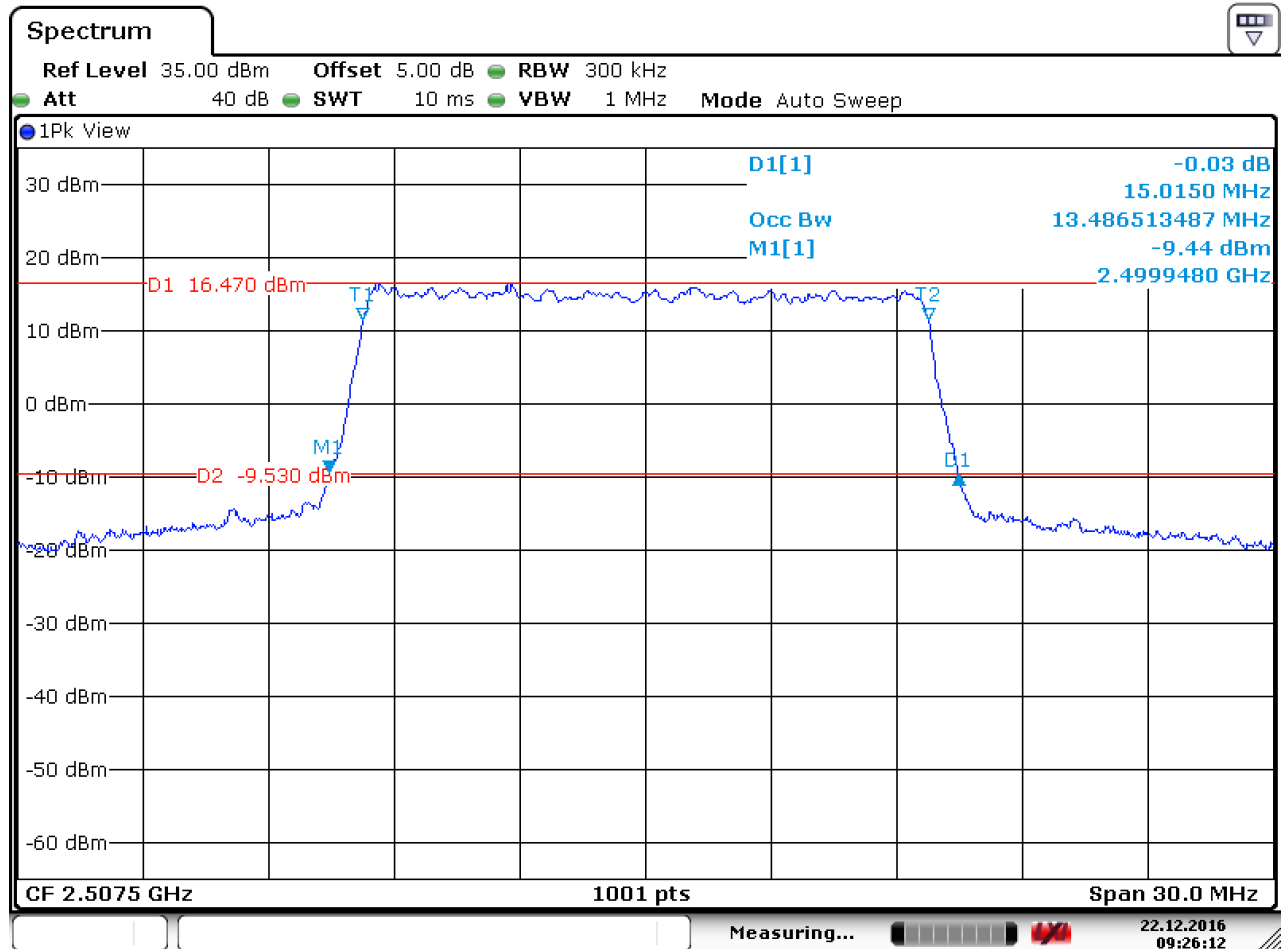
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4.1.1.5 Test Mode = LTE/TM1 15MHz

4.1.1.5.1 Test Channel = LCH

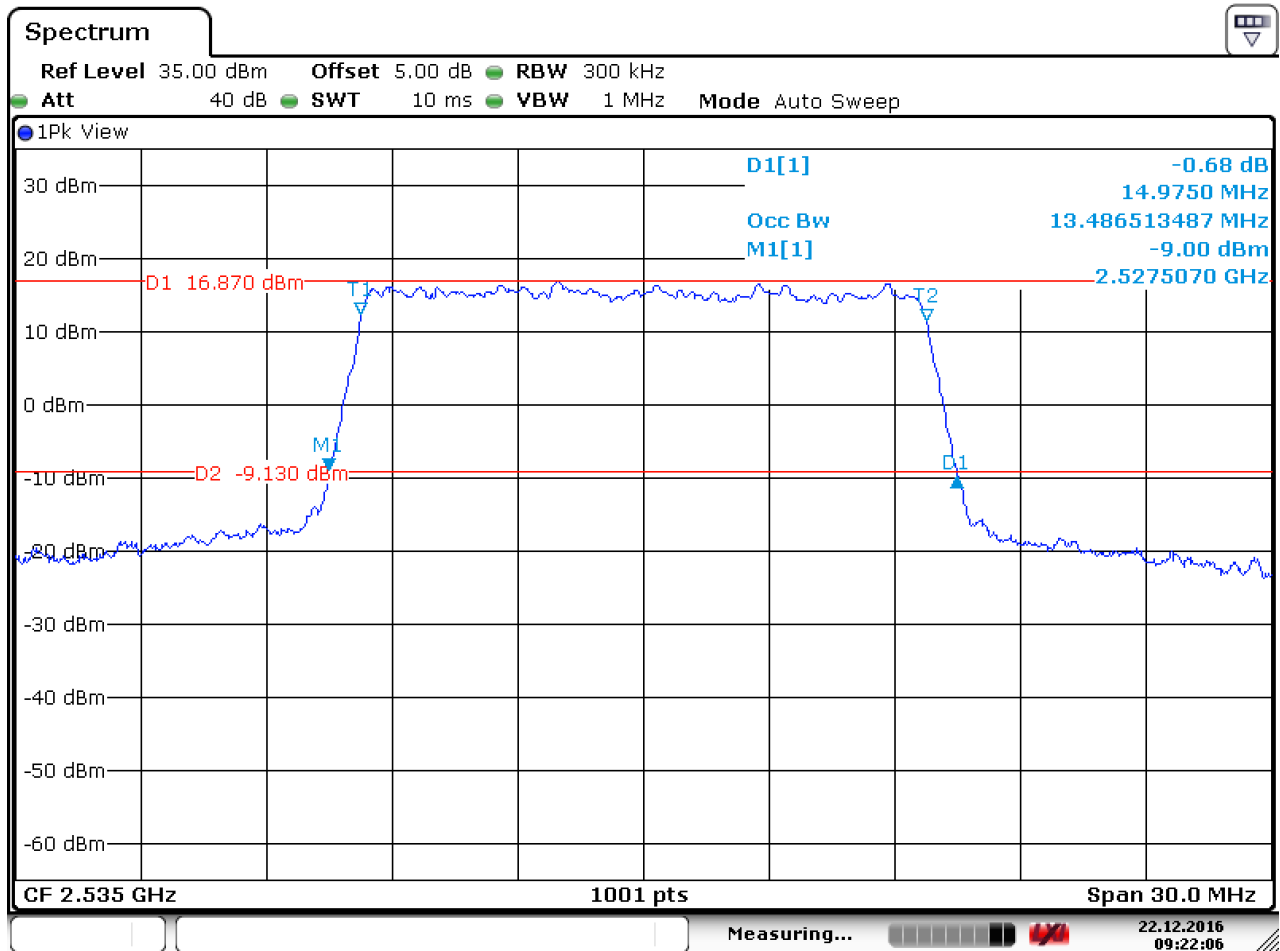


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4.1.1.5.2 Test Channel = MCH

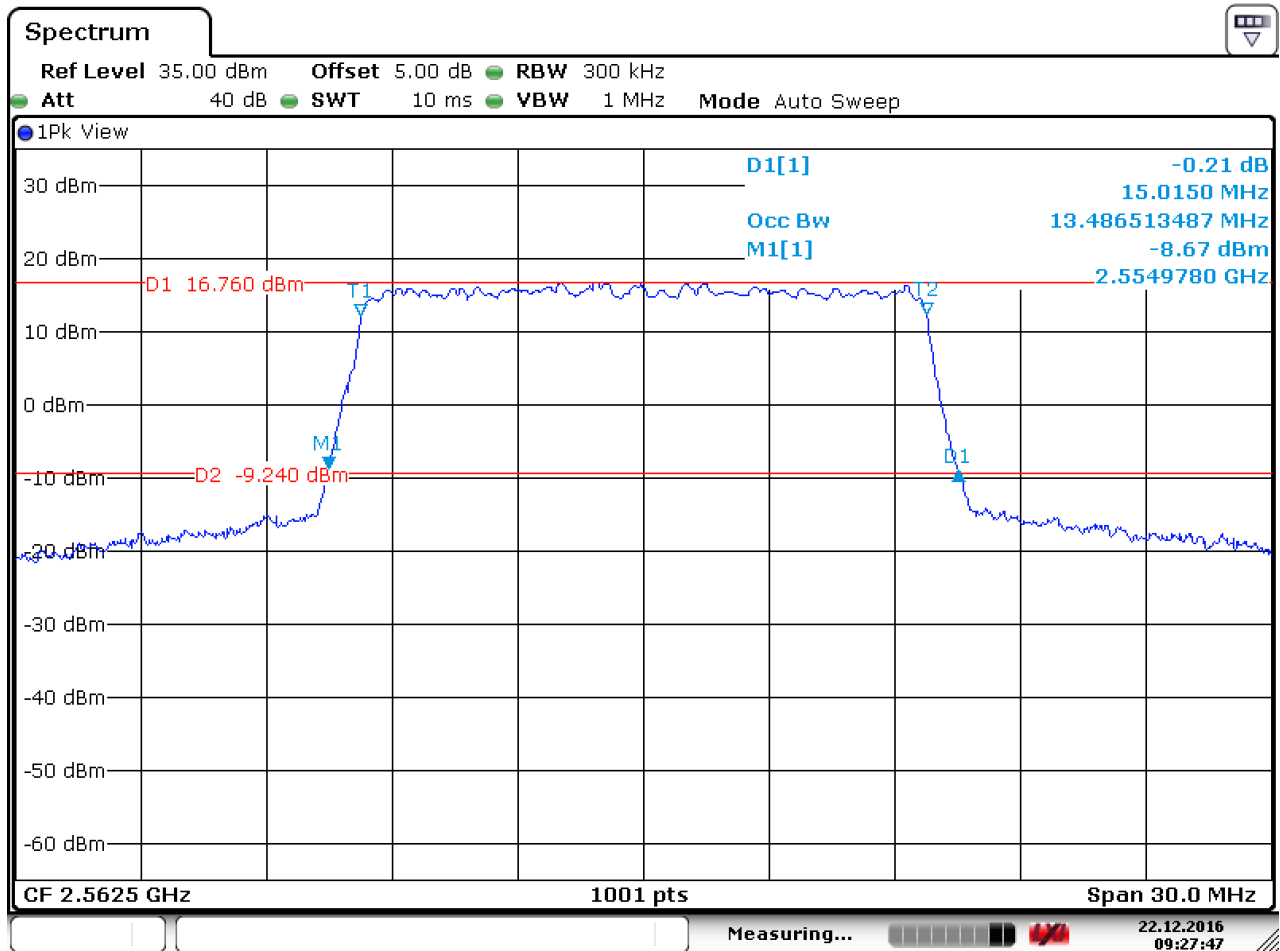


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4.1.1.5.3 Test Channel = HCH



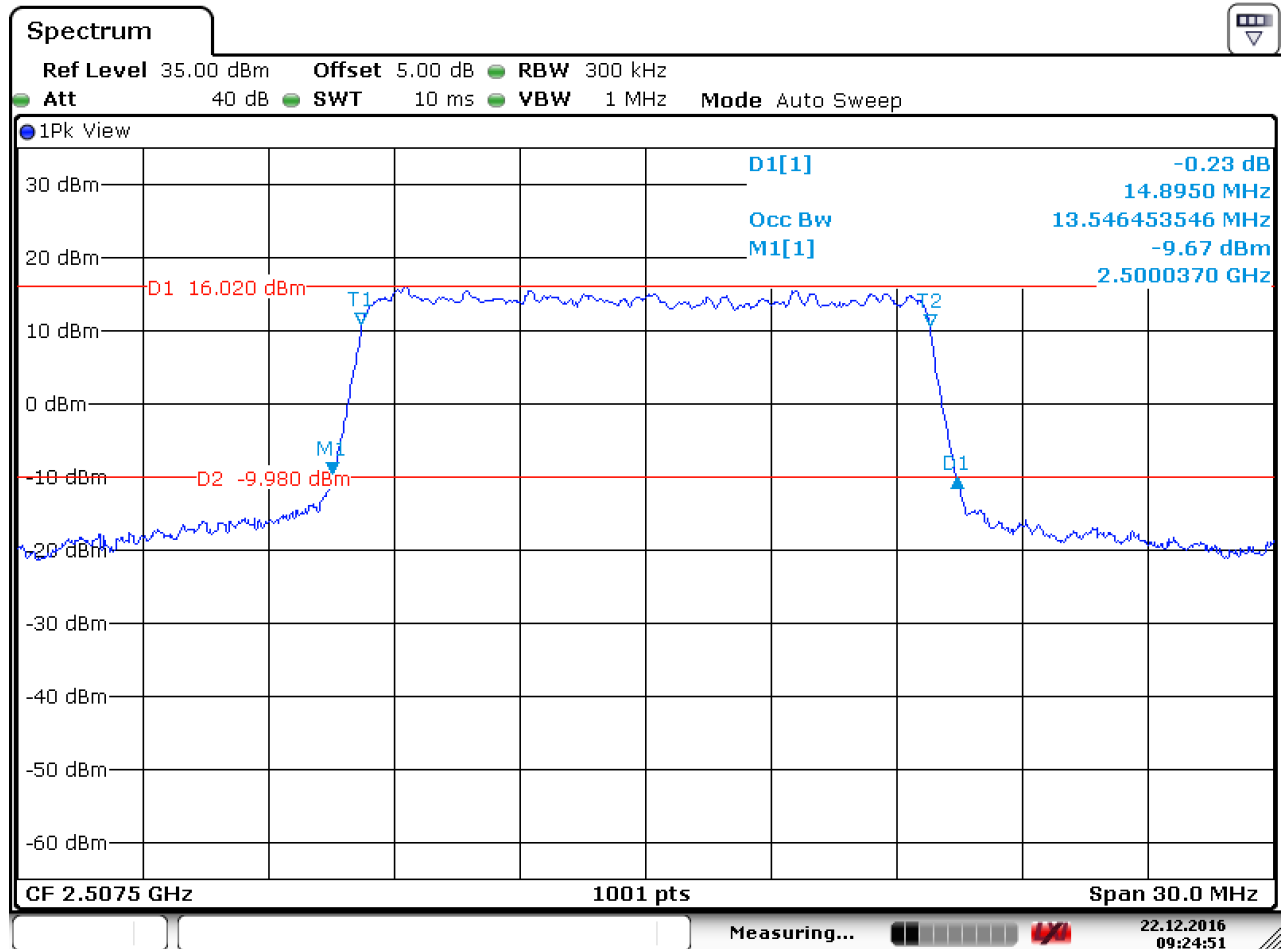
Date: 22.DEC.2016 09:27:47

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4.1.1.6 Test Mode = LTE/TM2 15MHz

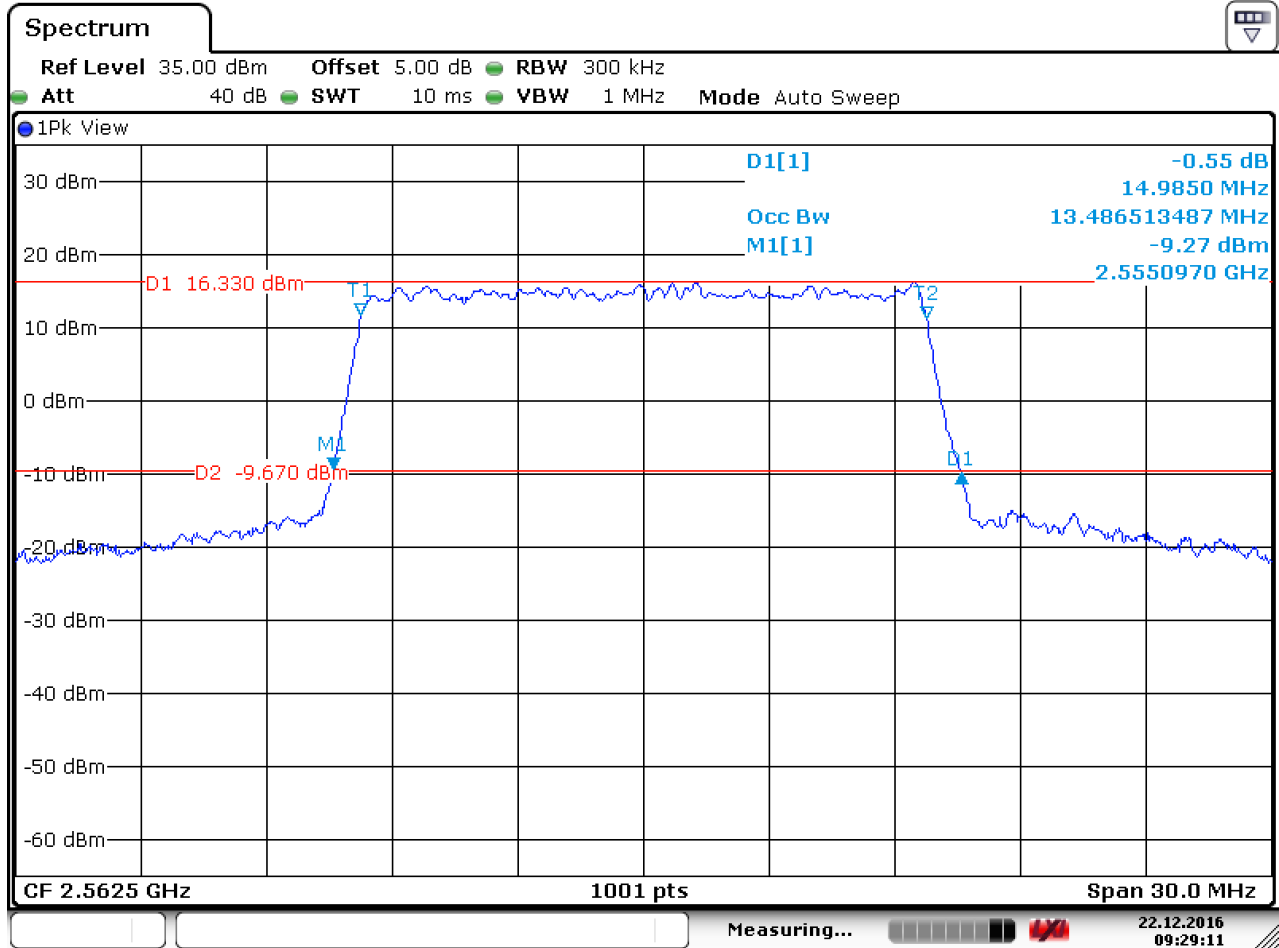
4.1.1.6.1 Test Channel = LCH



Date: 22.DEC.2016 09:24:52



4.1.1.6.3 Test Channel = HCH

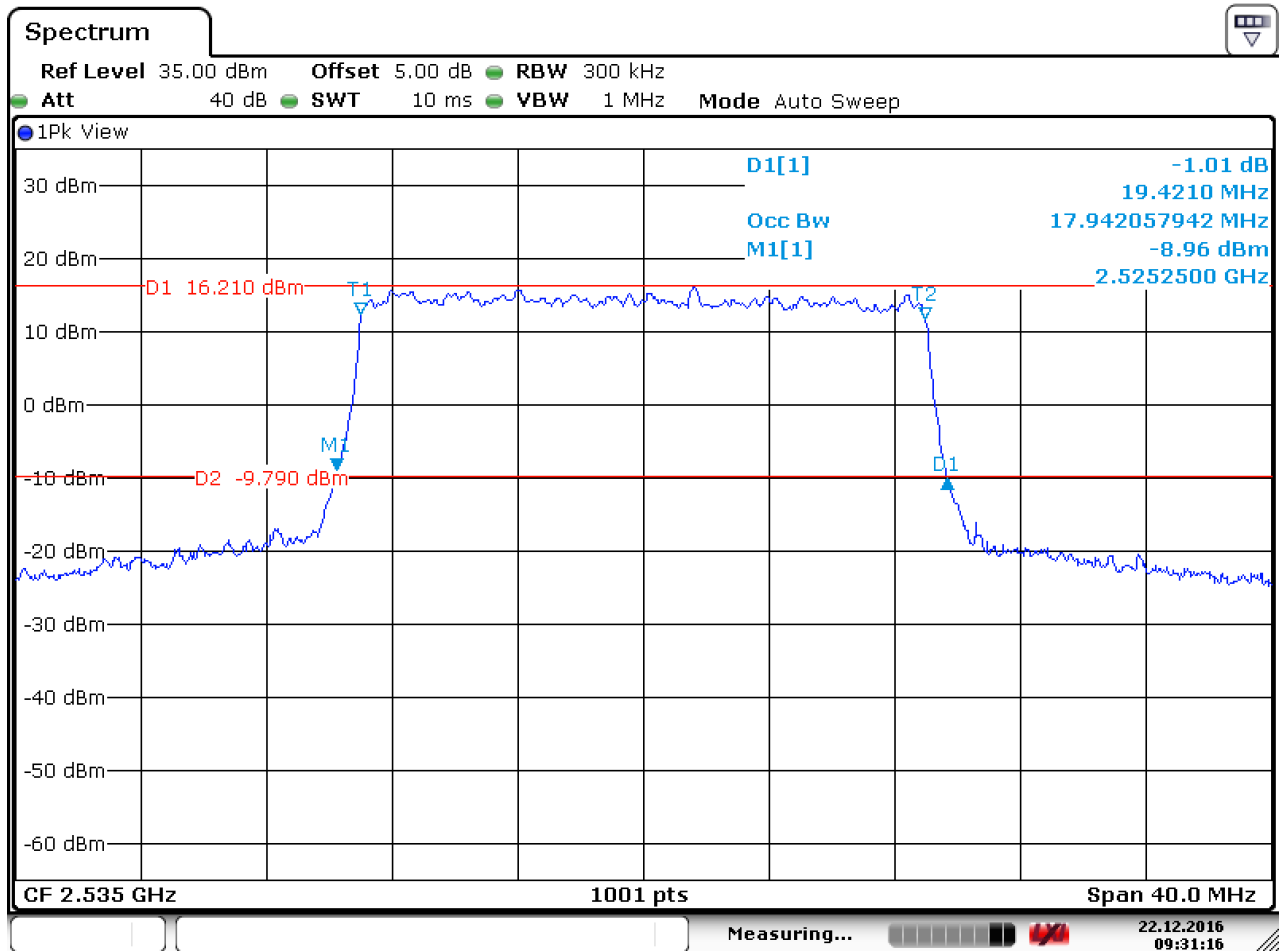


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4.1.1.7.2 Test Channel = MCH

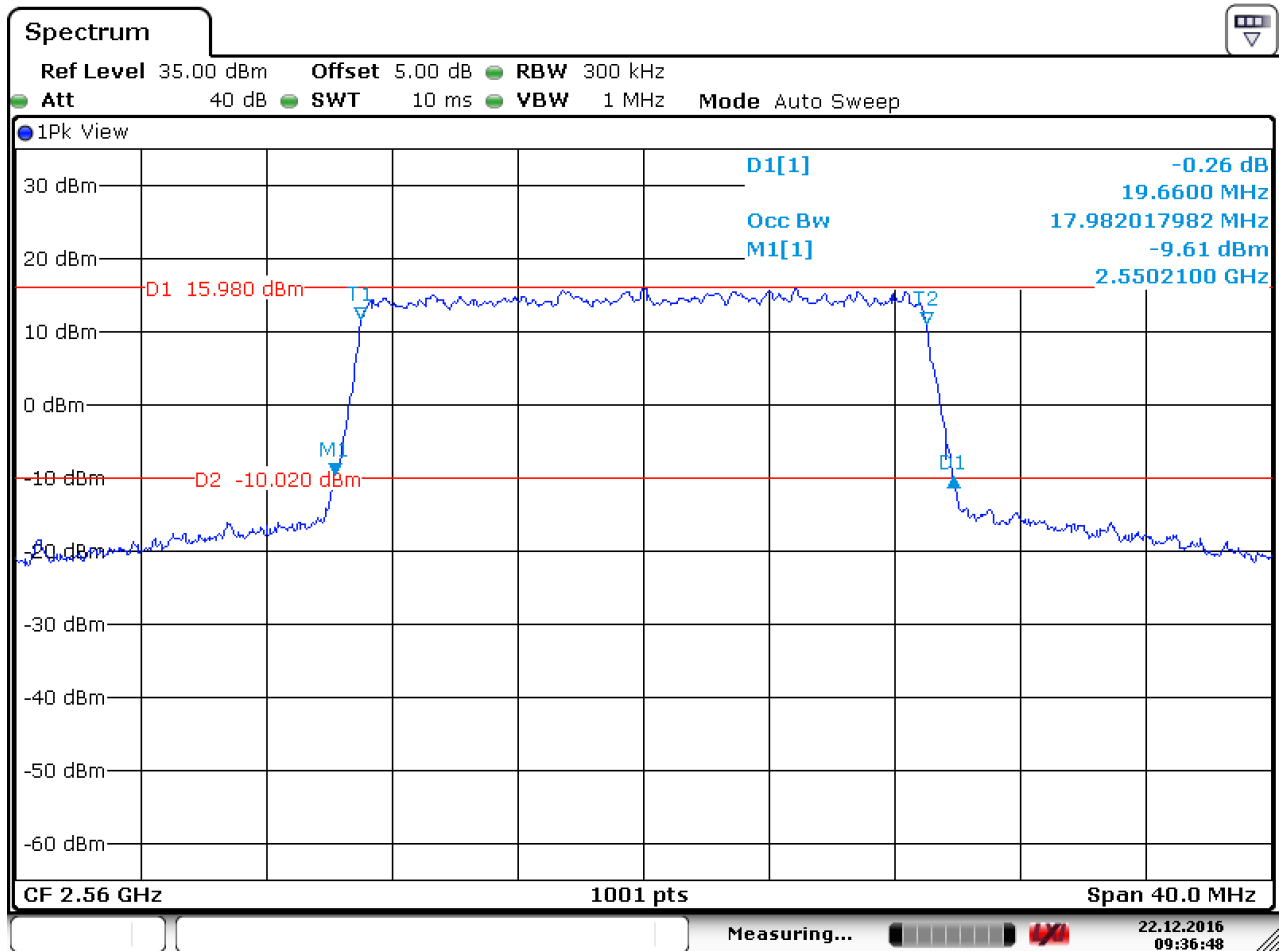


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4.1.1.7.3 Test Channel = HCH



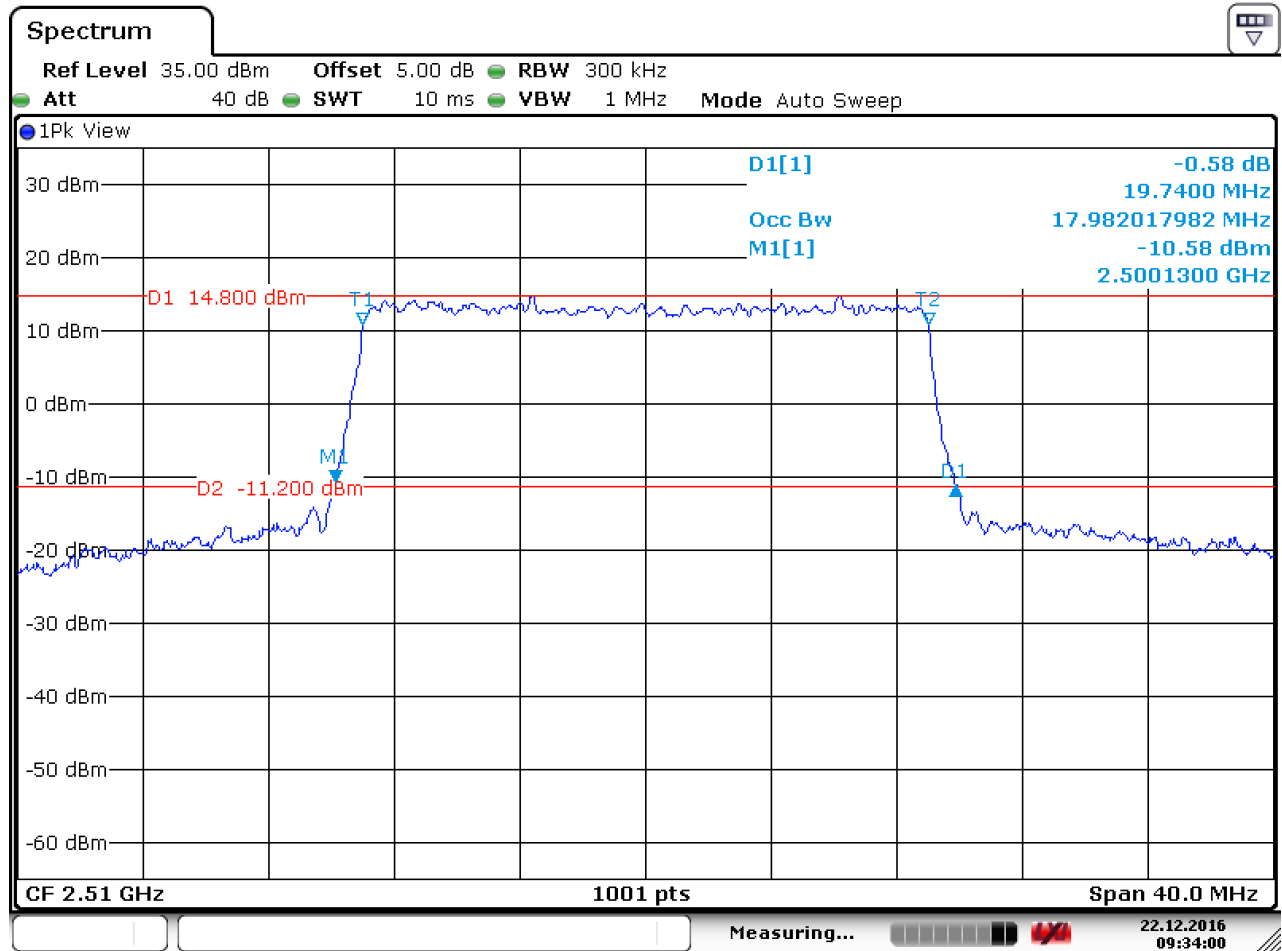
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4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH

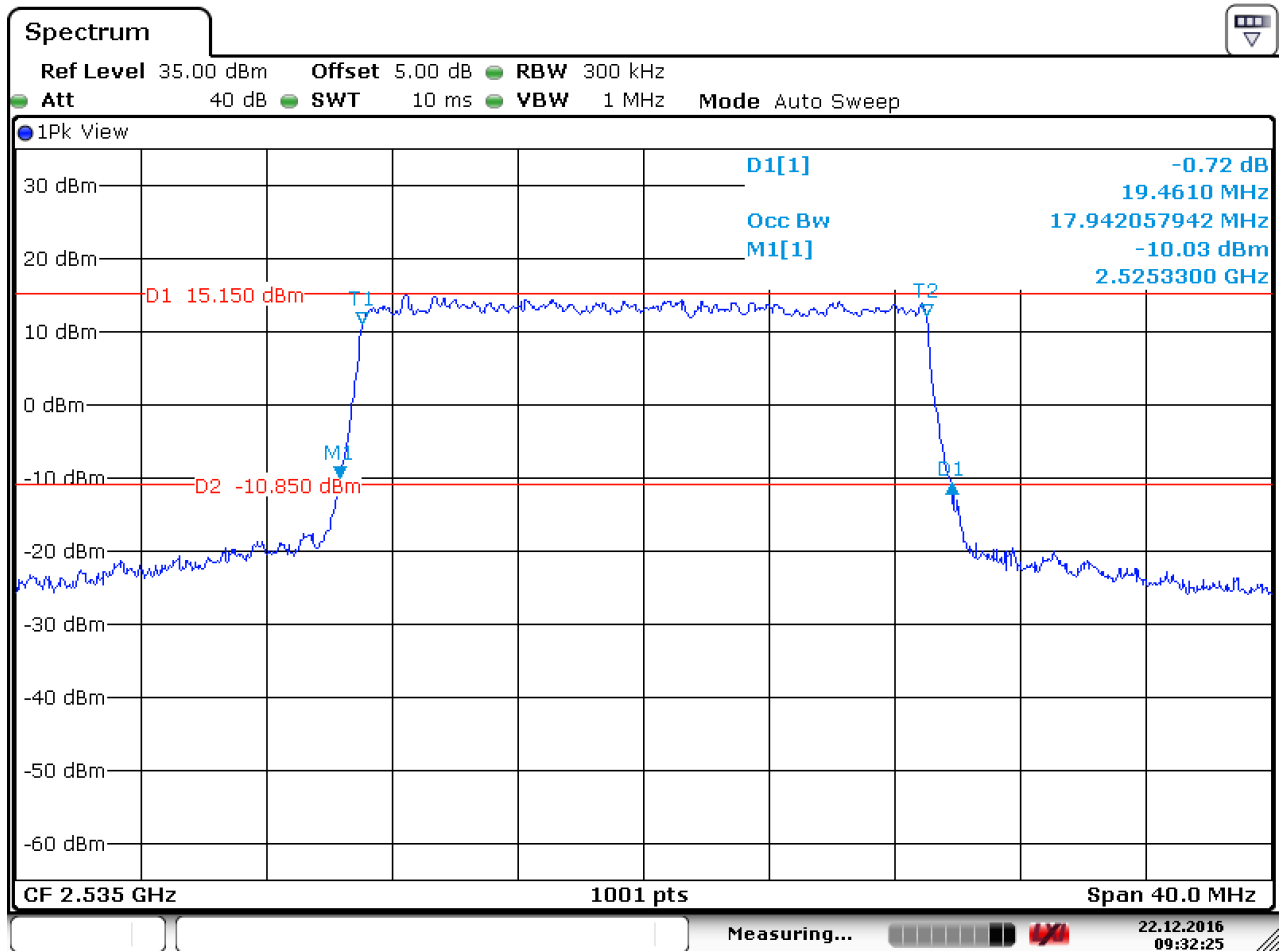


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4.1.1.8.2 Test Channel = MCH

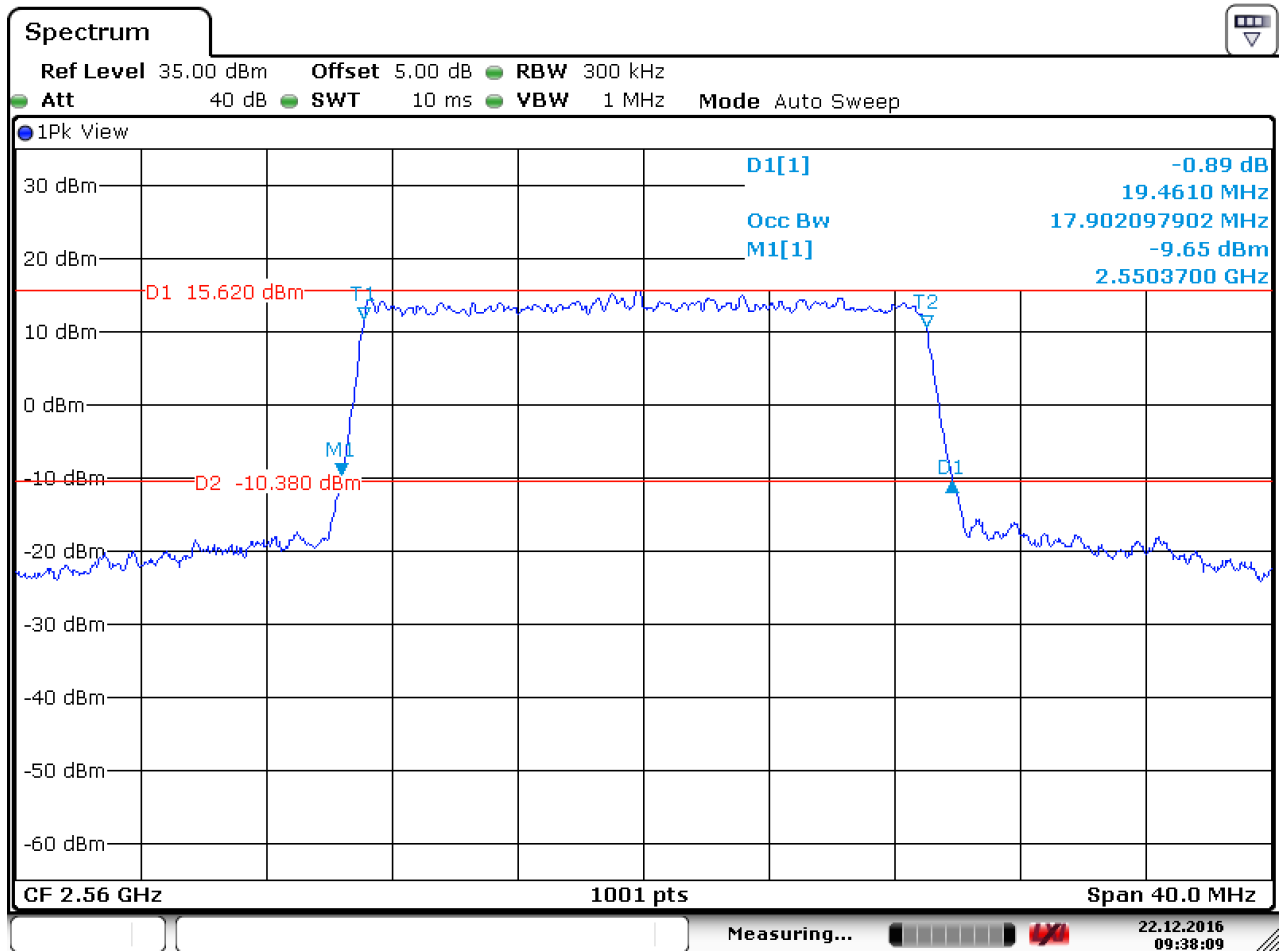


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4.1.1.8.3 Test Channel = HCH



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5 Band Edges Compliance

Part I –

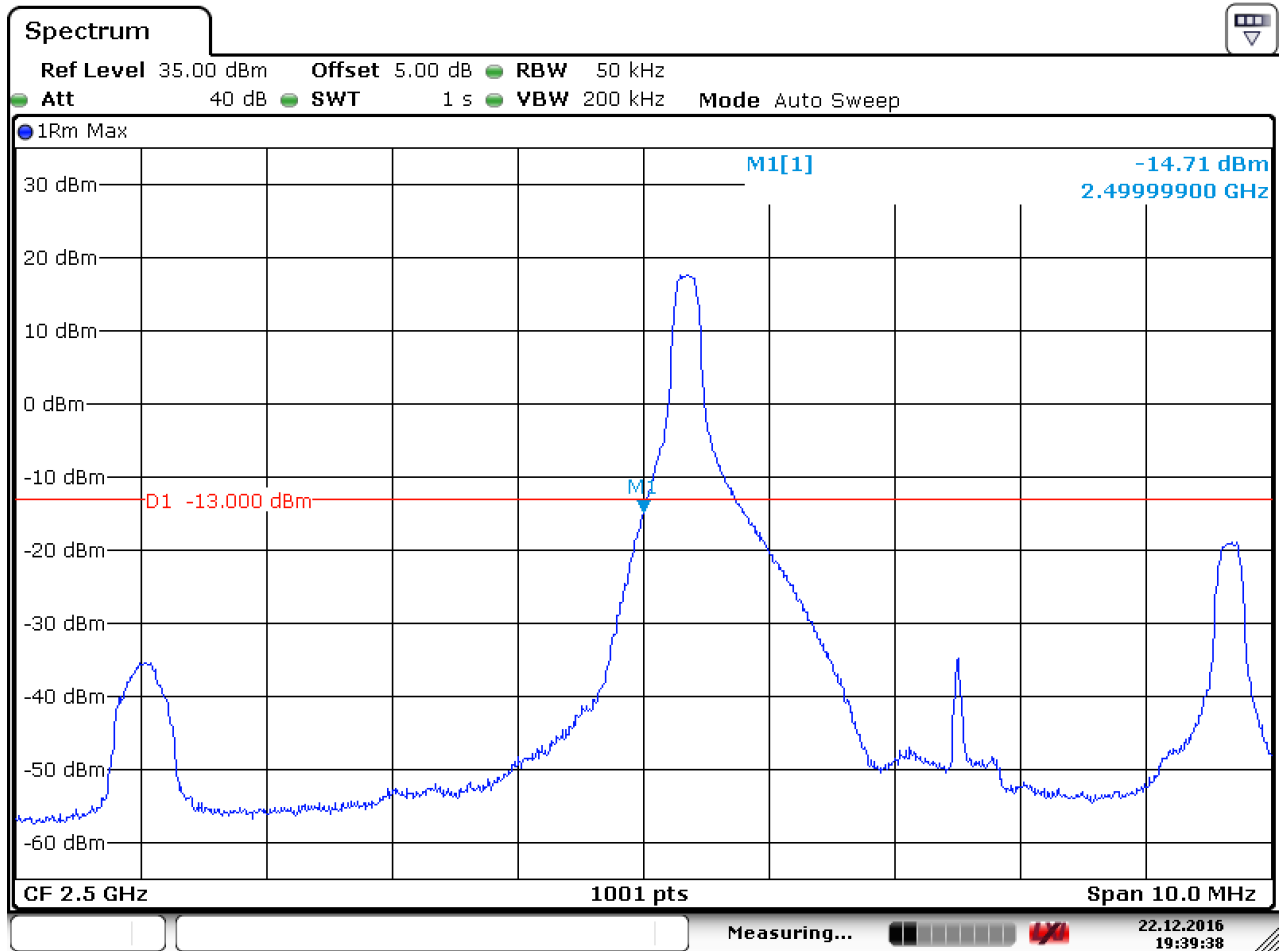
5.1 For LTE

5.1.1 Test Band = LTE band2

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

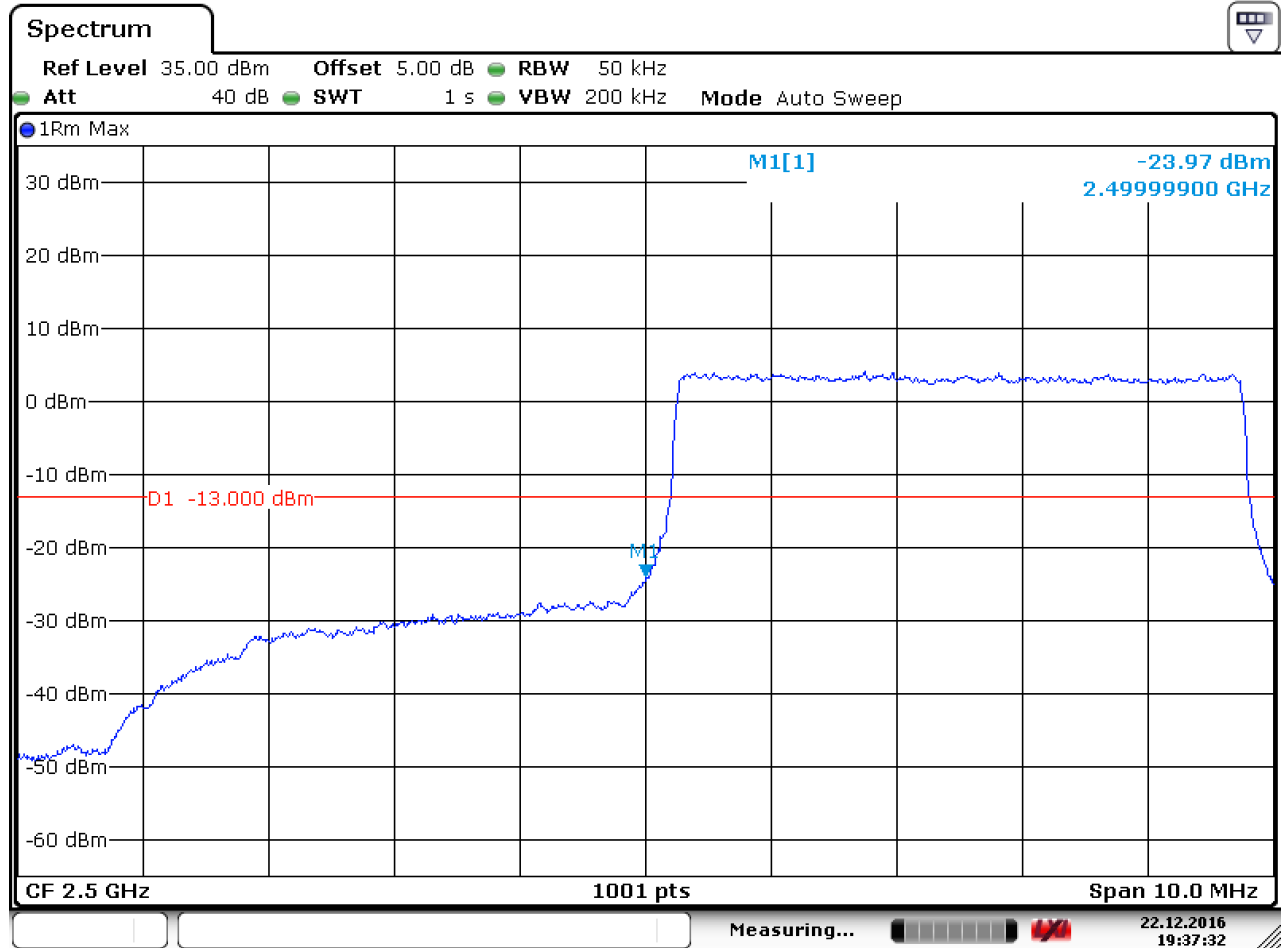
5.1.1.1.1.1 Test RB=1RB



Date: 22.DEC.2016 19:39:38



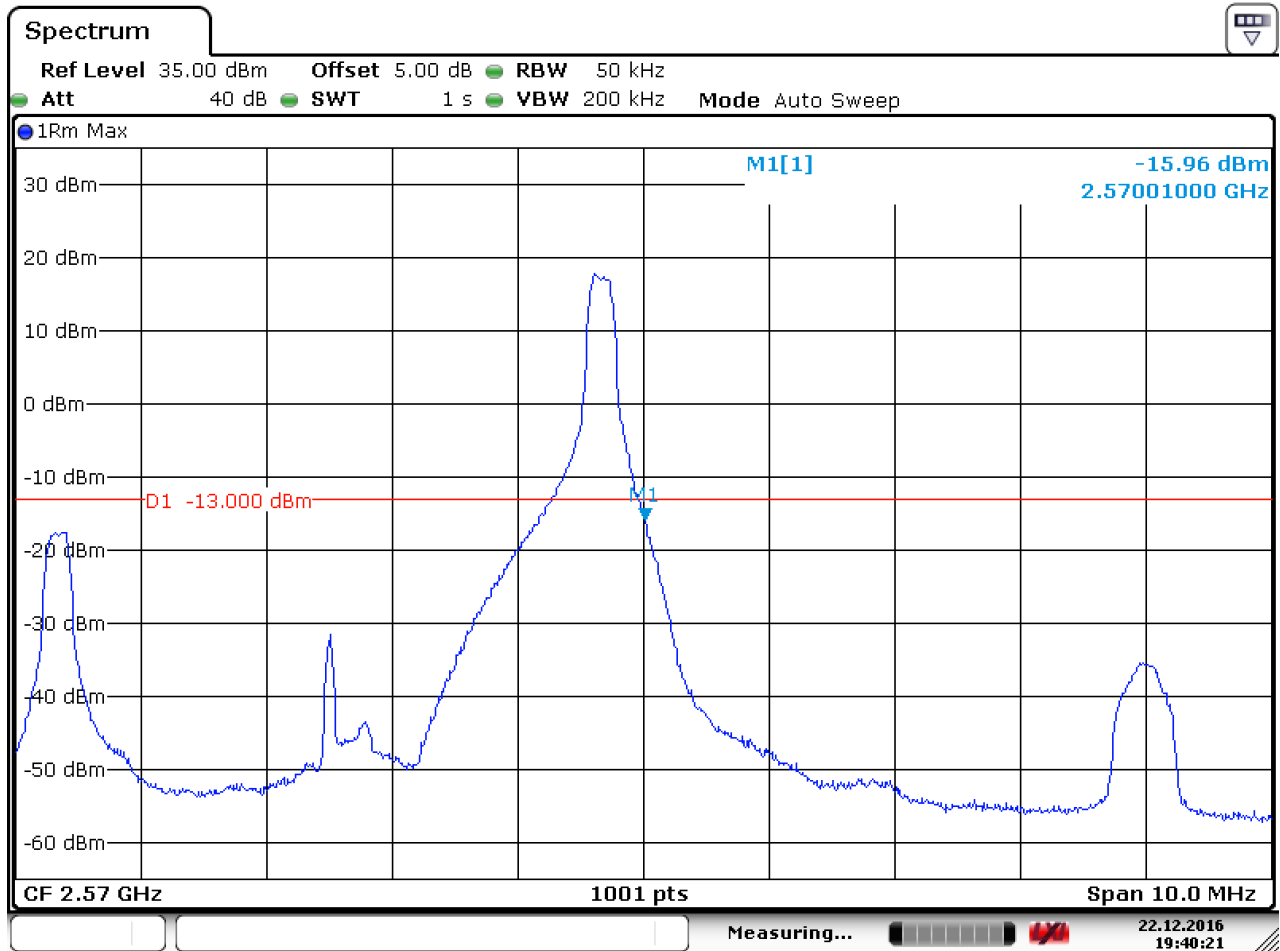
5.1.1.1.1.2 Test RB=25RB



Date: 22.DEC.2016 19:37:32

5.1.1.1.2 Test Channel = HCH

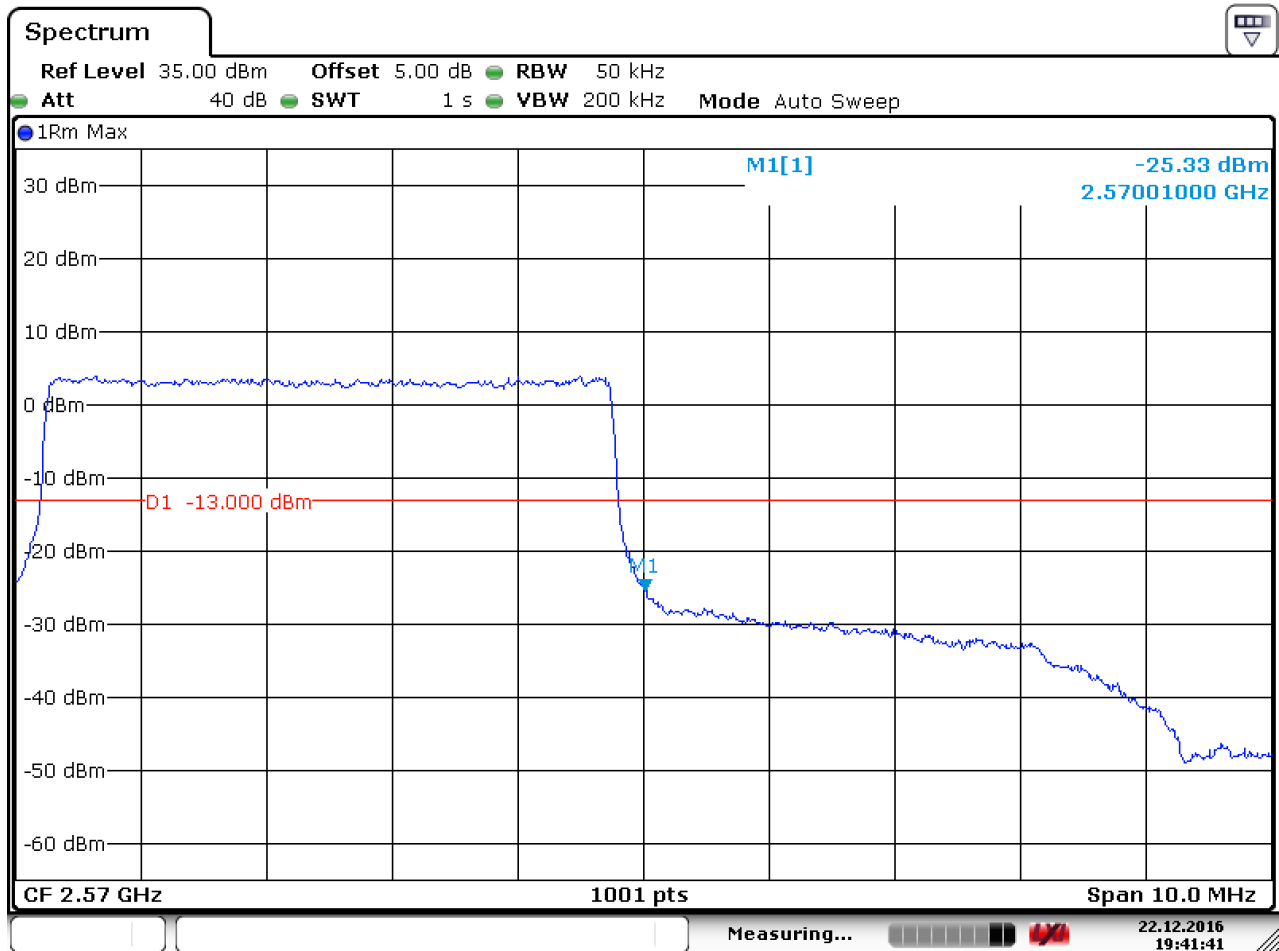
5.1.1.1.2.1 Test RB=1RB



Date: 22.DEC.2016 19:40:21



5.1.1.1.2.2 Test RB=25RB



Date: 22.DEC.2016 19:41:41

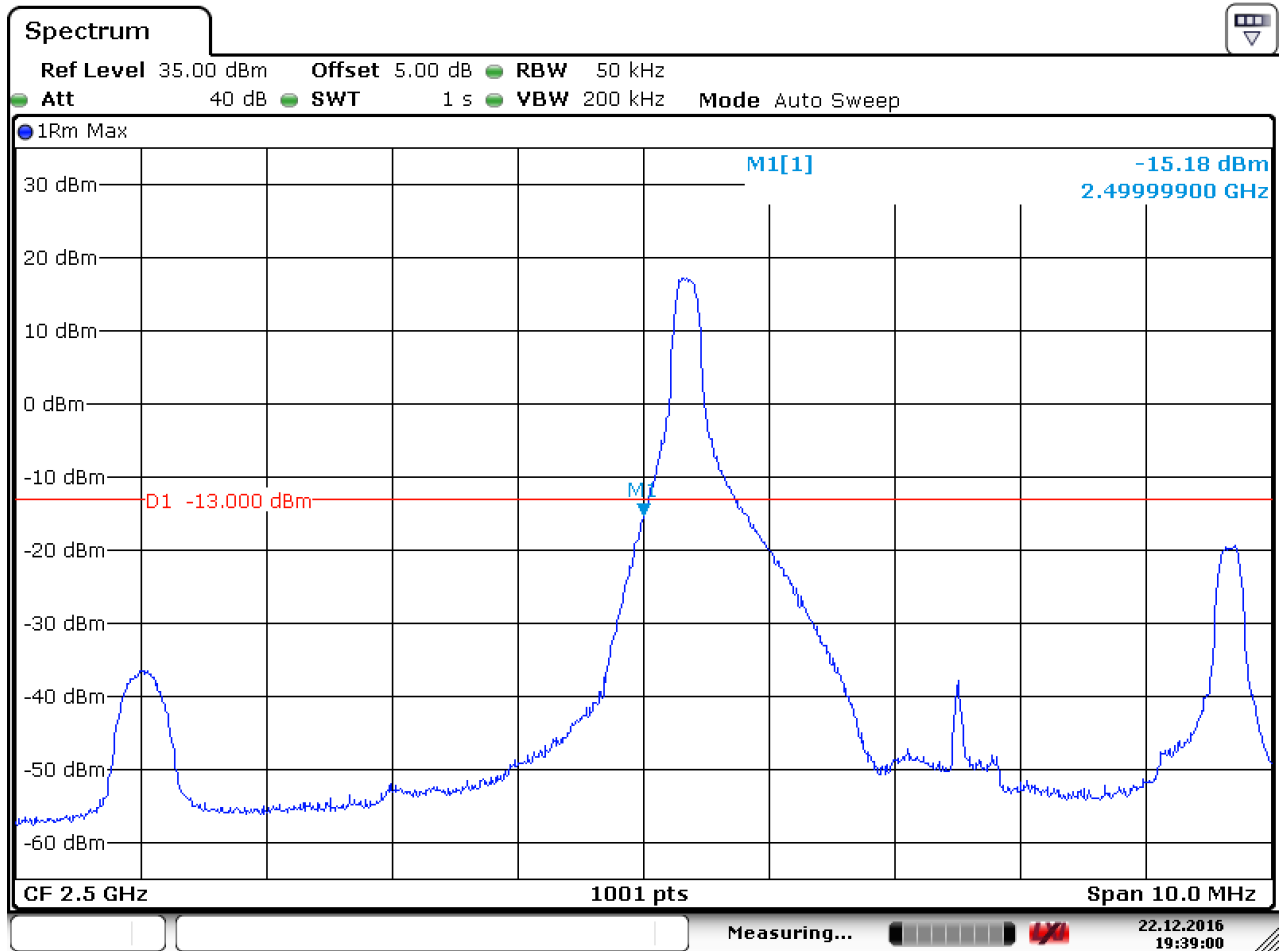
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

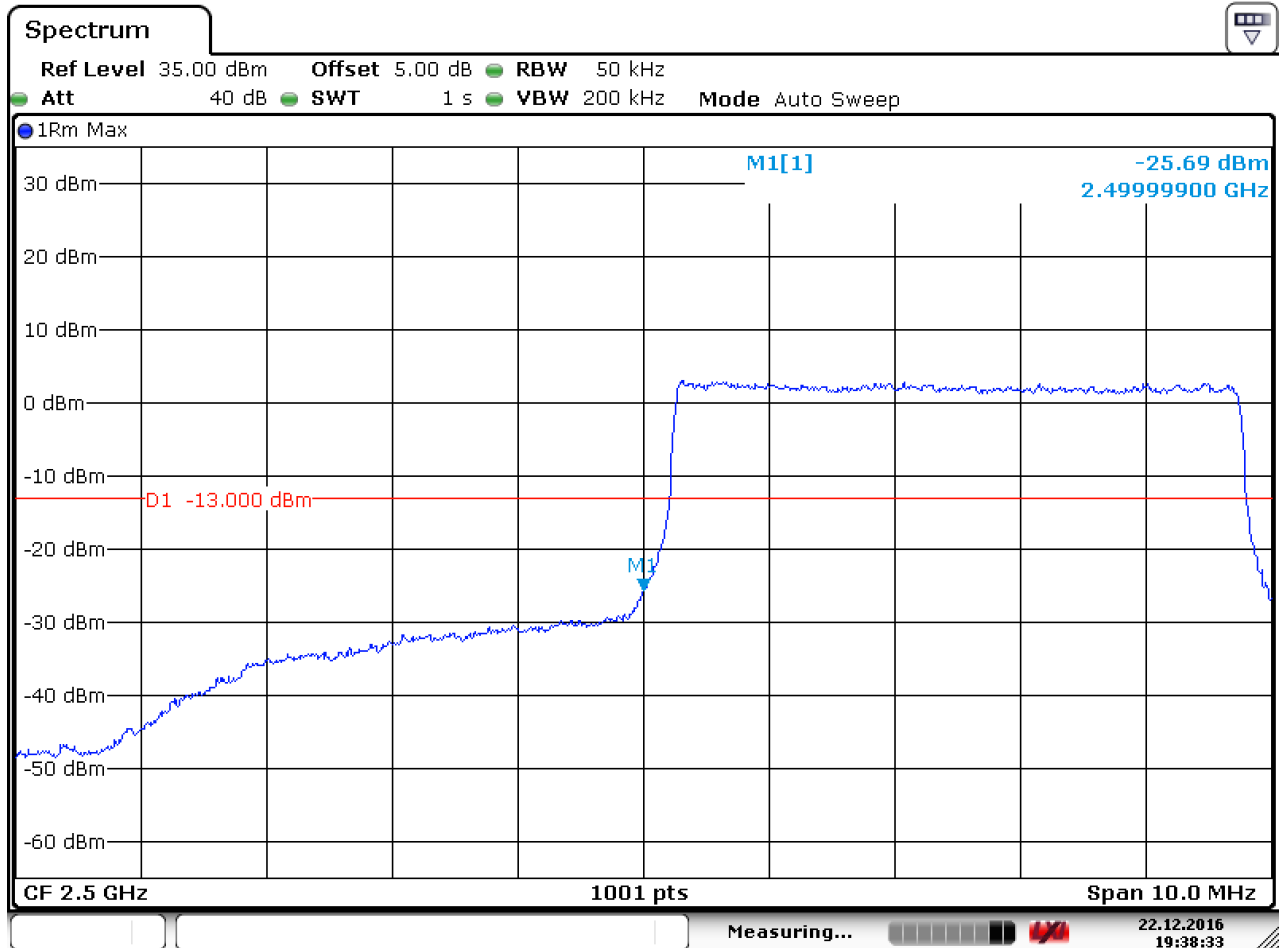


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5.1.1.2.1.2 Test RB=25RB

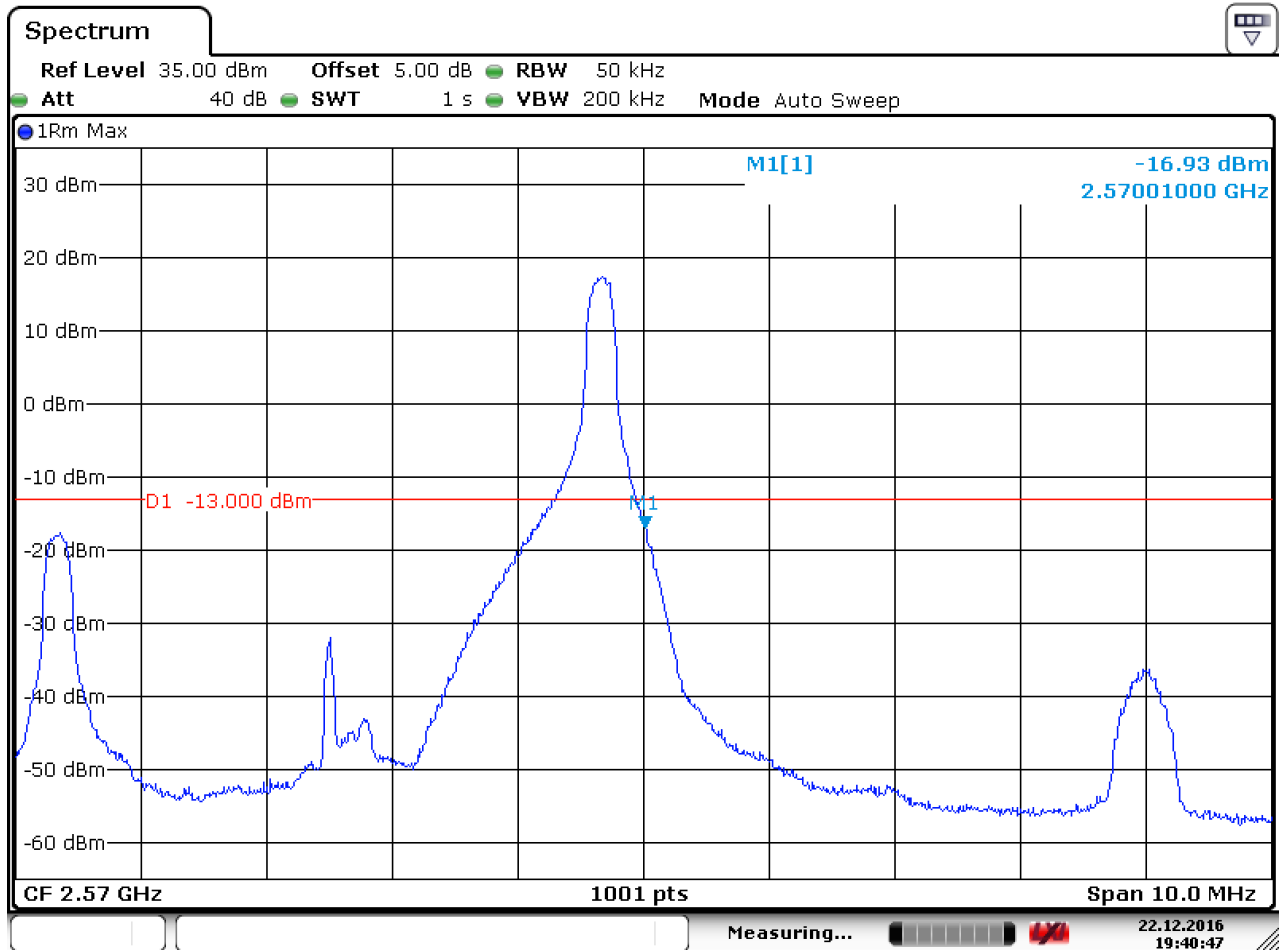


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5.1.1.2.2 Test Channel = HCH

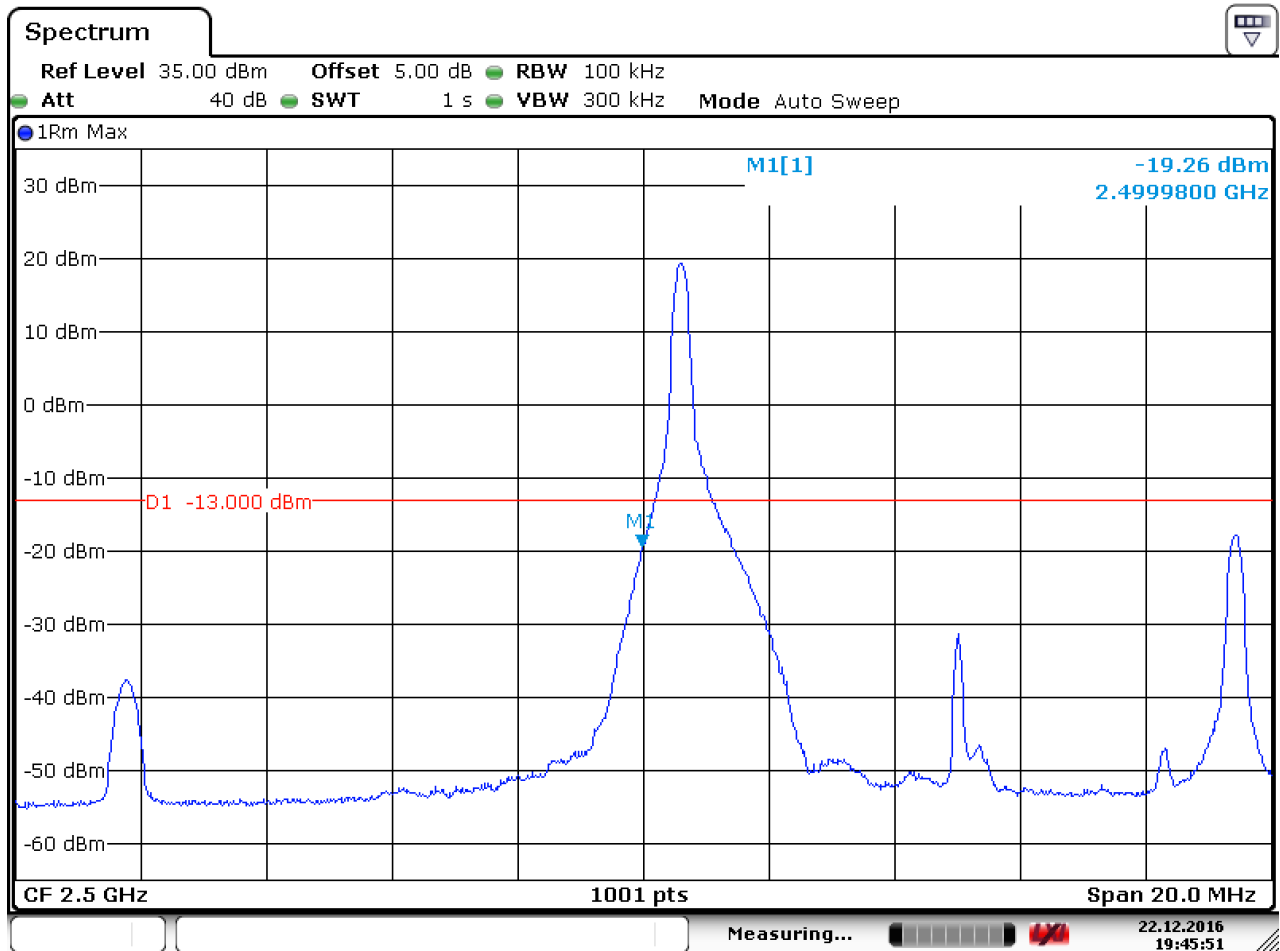
5.1.1.2.2.1 Test RB=1RB



Date: 22.DEC.2016 19:40:47



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

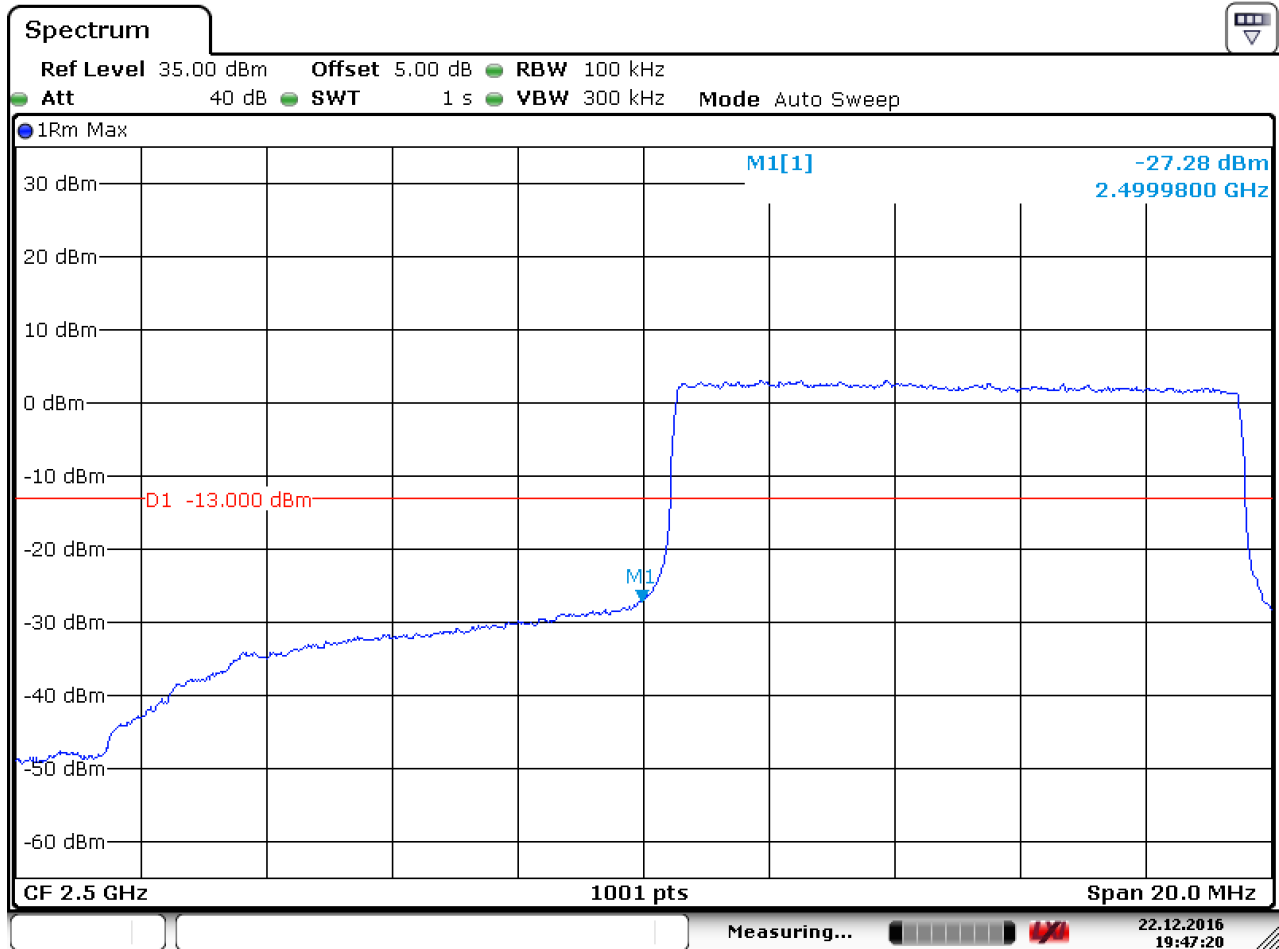


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5.1.1.3.1.2 Test RB=50RB

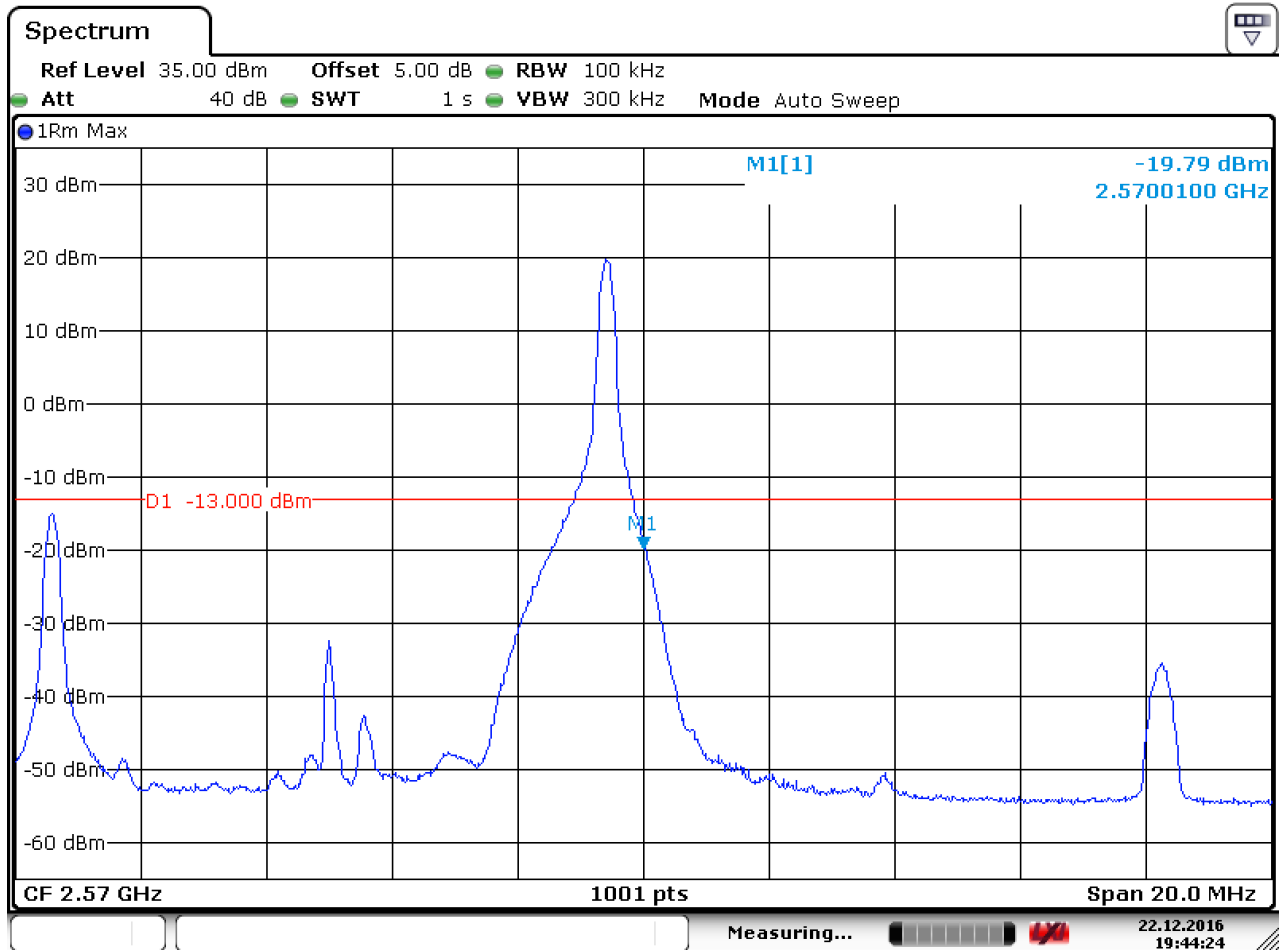


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5.1.1.3.2 Test Channel = HCH

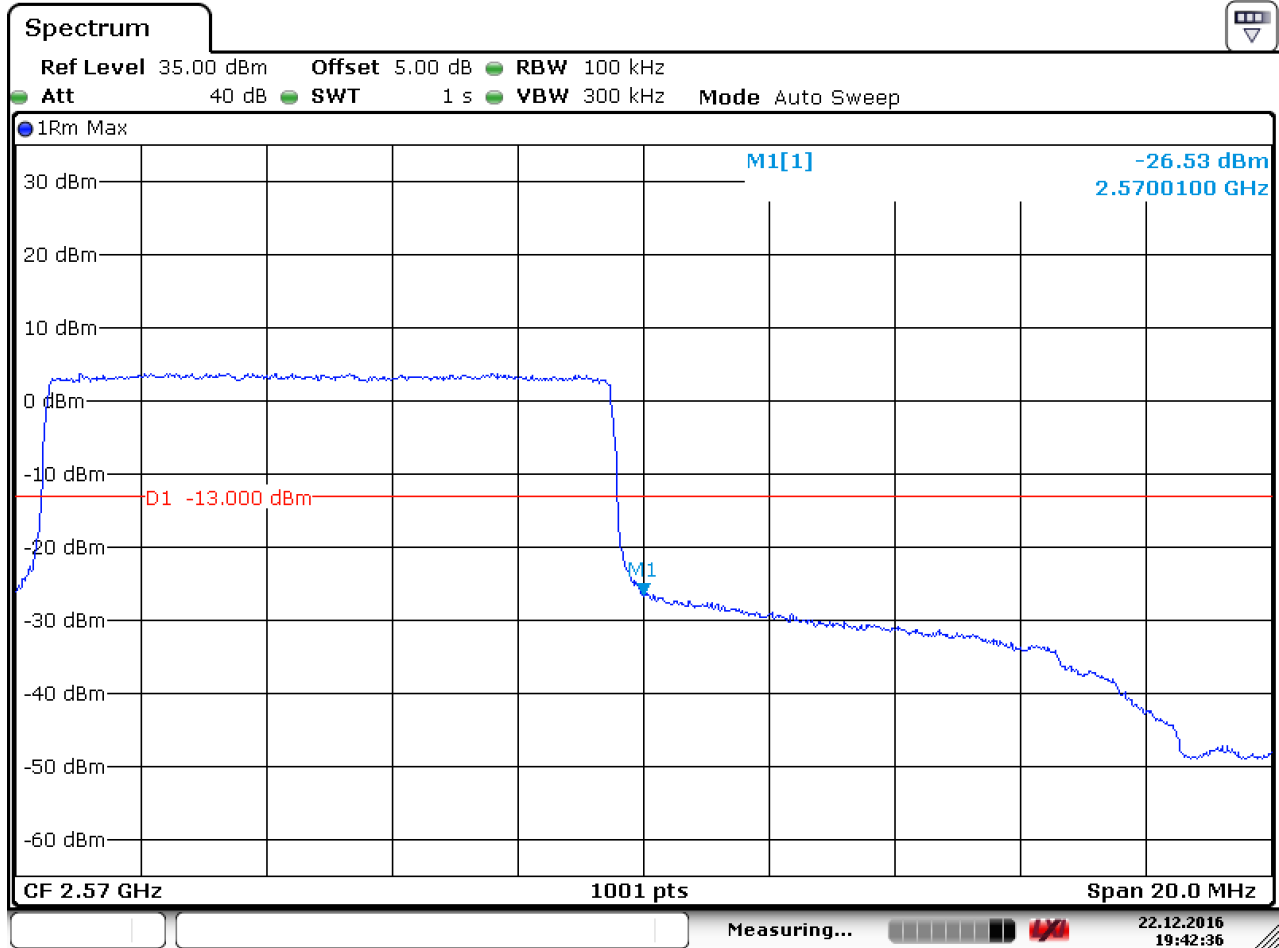
5.1.1.3.2.1 Test RB=1RB



Date: 22.DEC.2016 19:44:24



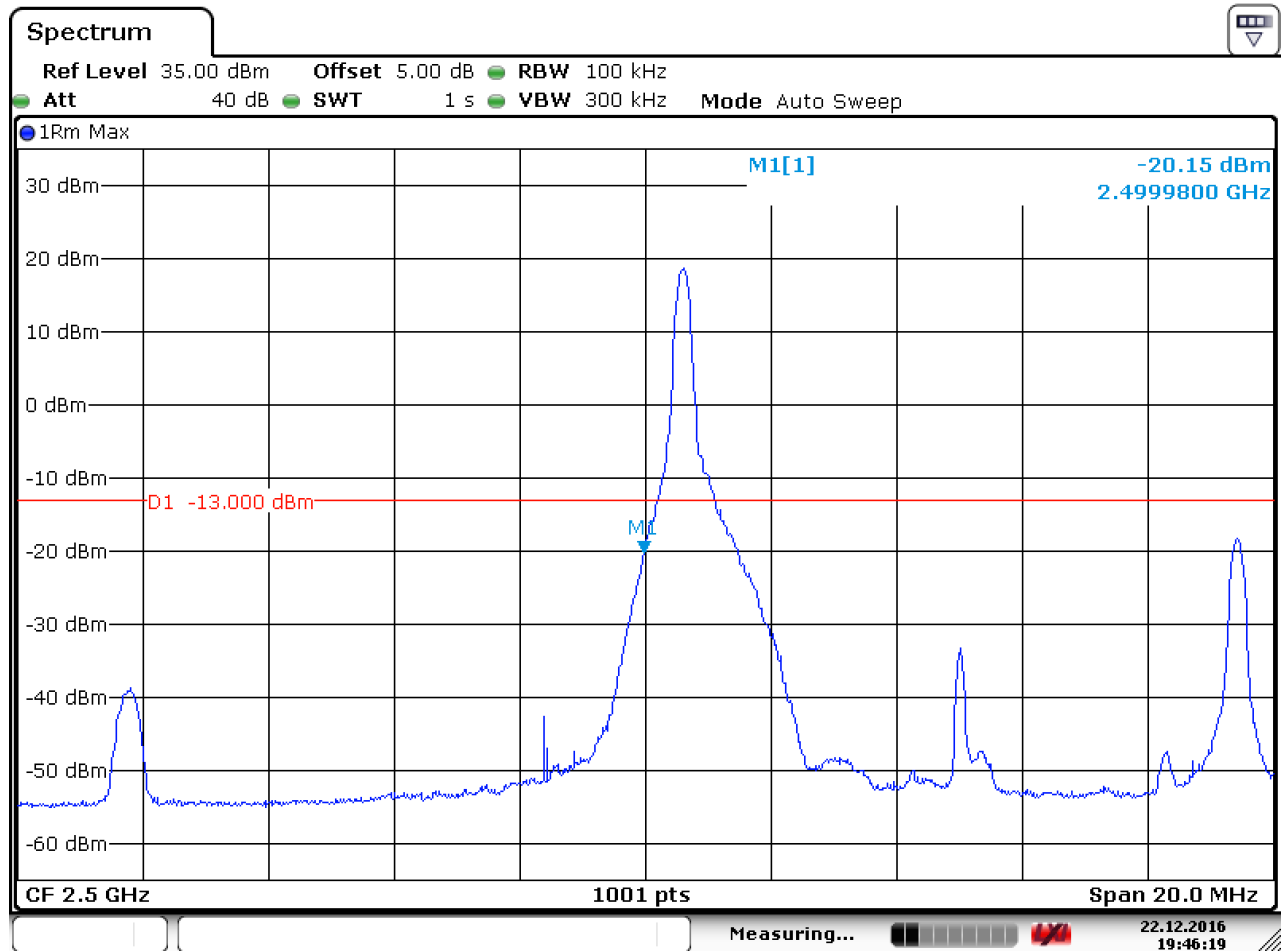
5.1.1.3.2.2 Test RB=50RB



Date: 22.DEC.2016 19:42:37

5.1.1.4 Test Mode = LTE/TM2 10MHz
5.1.1.4.1 Test Channel = LCH

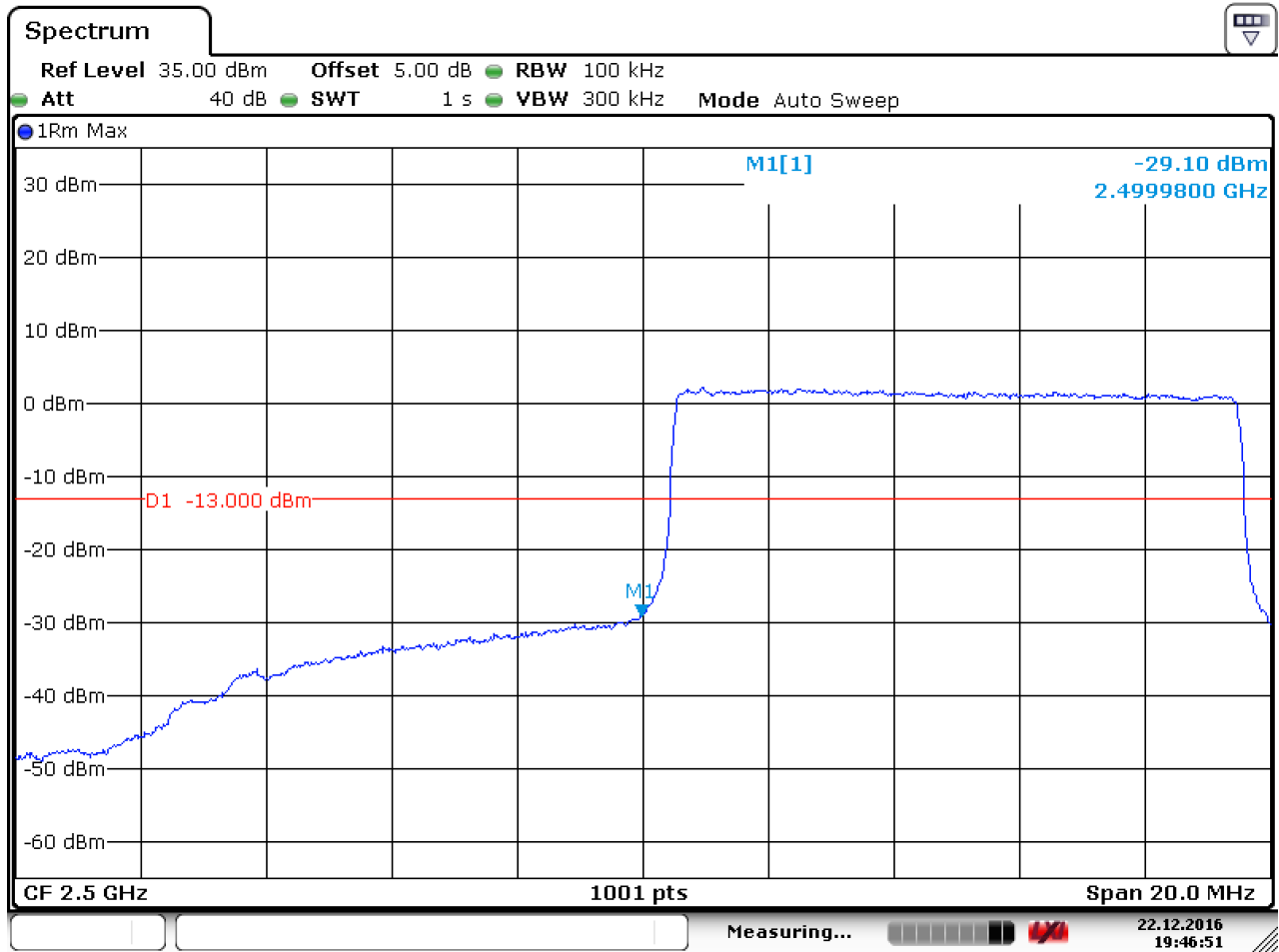
5.1.1.4.1.1 Test RB=1RB



Date: 22.DEC.2016 19:46:20



5.1.1.4.1.2 Test RB=50RB

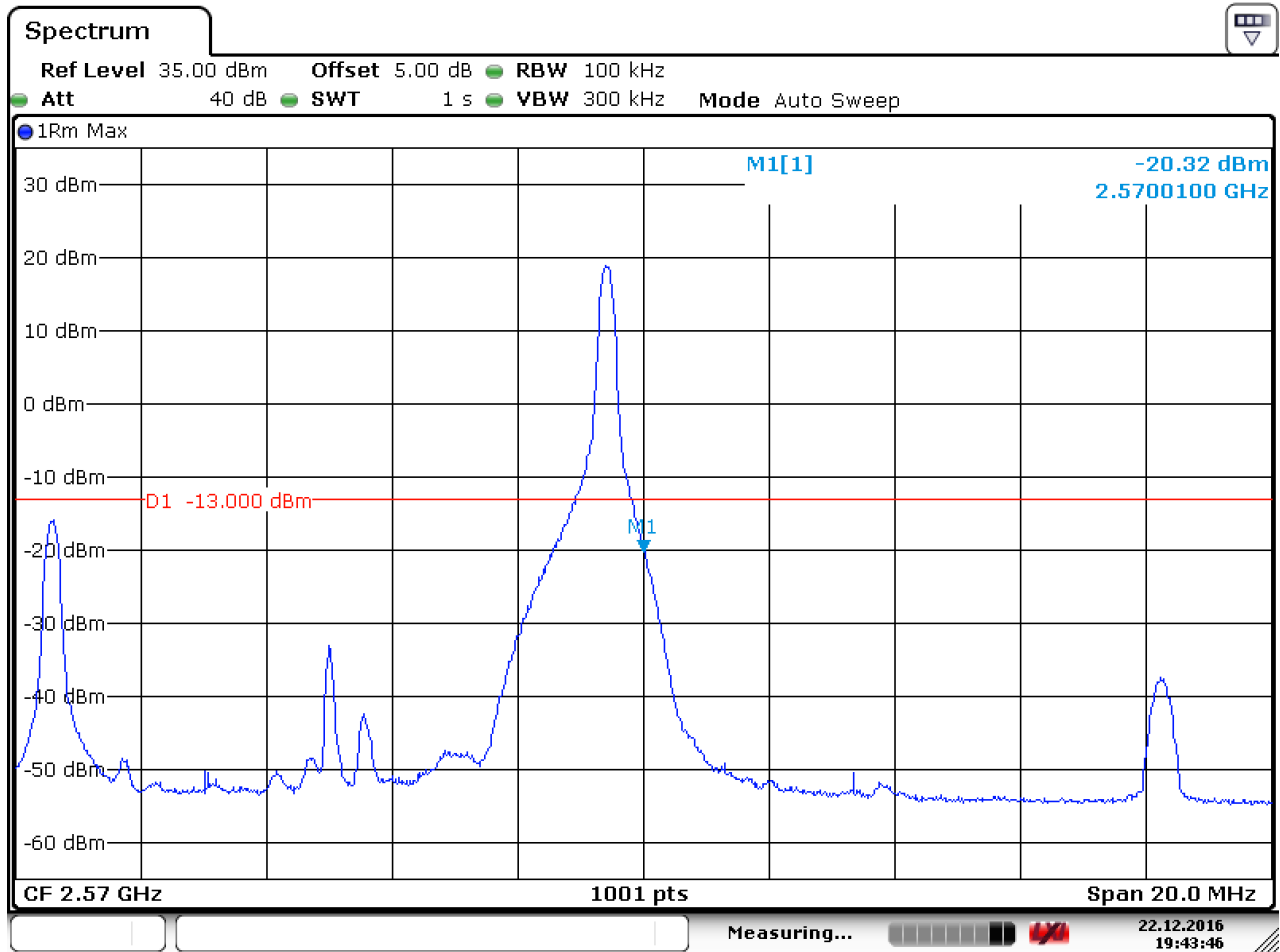


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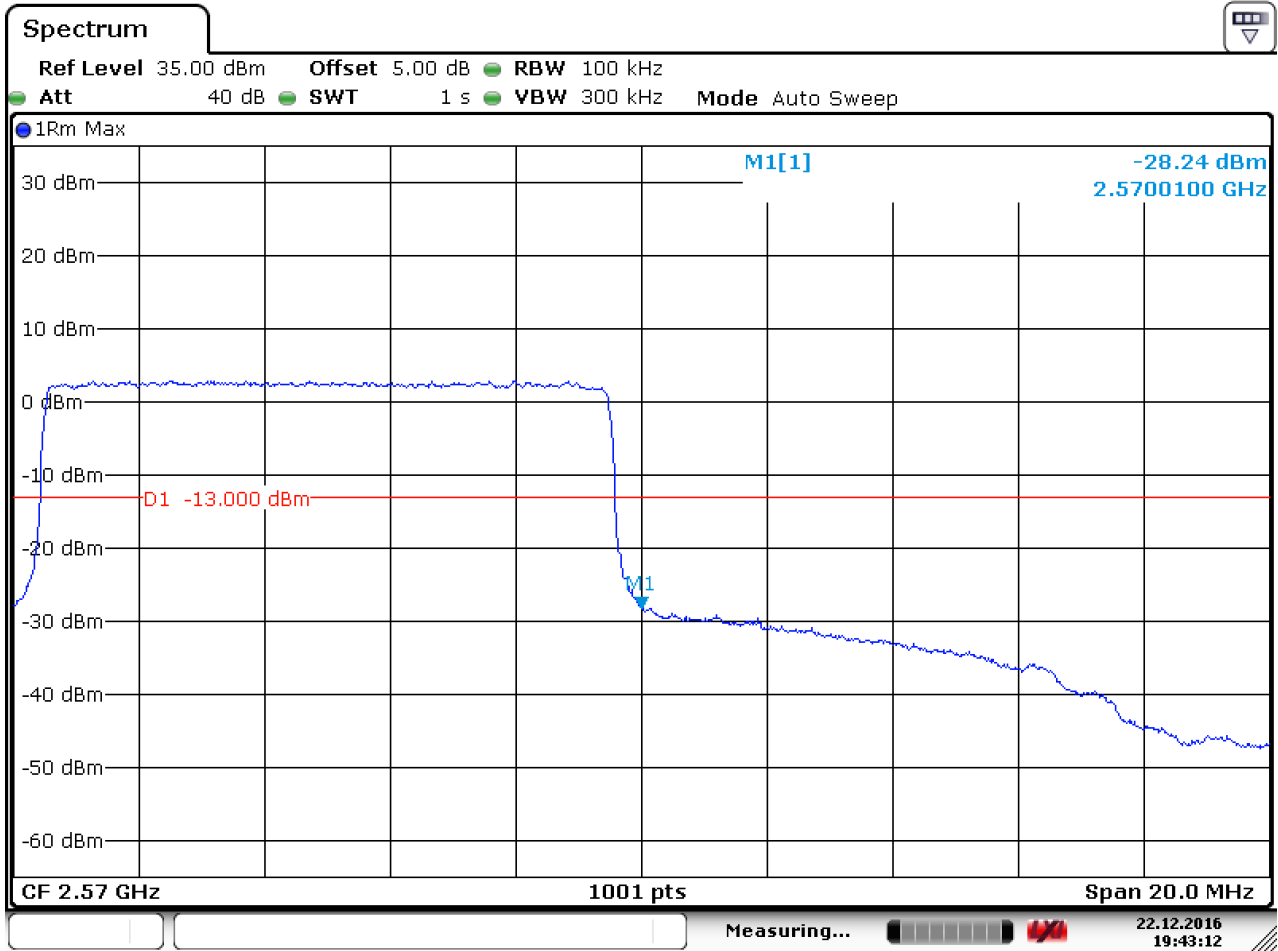
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 22.DEC.2016 19:43:47

5.1.1.4.2.2 Test RB=50RB



Date: 22.DEC.2016 19:43:13