



Appendix B

Test Data for SZEM1611009400RG



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1 Effective (Isotropic) Radiated Power Output Data

Part 16–Effective Isotropic Radiated Power of Transmitter (EIRP) 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	5M	LCH	RB1#0	22.87	23.87	38.45	PASS
				RB1#13	22.95	23.95	38.45	PASS
				RB1#24	22.91	23.91	38.45	PASS
				RB12#0	21.93	22.93	38.45	PASS
				RB12#6	21.95	22.95	38.45	PASS
				RB12#13	21.93	22.93	38.45	PASS
				RB25#0	21.93	22.93	38.45	PASS
			MCH	RB1#0	22.89	23.89	38.45	PASS
				RB1#13	22.94	23.94	38.45	PASS
				RB1#24	22.86	23.86	38.45	PASS
				RB12#0	22.01	23.01	38.45	PASS
				RB12#6	22.03	23.03	38.45	PASS
				RB12#13	22.02	23.02	38.45	PASS
				RB25#0	22.02	23.02	38.45	PASS
			HCH	RB1#0	23.04	24.04	38.45	PASS
				RB1#13	23.07	24.07	38.45	PASS
				RB1#24	23.05	24.05	38.45	PASS
				RB12#0	22.05	23.05	38.45	PASS
				RB12#6	22.07	23.07	38.45	PASS
				RB12#13	22.03	23.03	38.45	PASS
				RB25#0	22.01	23.01	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	22.10	23.10	38.45	PASS
				RB1#13	22.23	23.23	38.45	PASS
				RB1#24	22.10	23.10	38.45	PASS
				RB12#0	21.02	22.02	38.45	PASS
				RB12#6	21.03	22.03	38.45	PASS
				RB12#13	21.03	22.03	38.45	PASS
				RB25#0	20.98	21.98	38.45	PASS
			MCH	RB1#0	22.28	23.28	38.45	PASS
				RB1#13	22.39	23.39	38.45	PASS
				RB1#24	22.04	23.04	38.45	PASS
				RB12#0	21.06	22.06	38.45	PASS
				RB12#6	21.05	22.05	38.45	PASS
				RB12#13	21.01	22.01	38.45	PASS
				RB25#0	21.03	22.03	38.45	PASS
			HCH	RB1#0	22.25	23.25	38.45	PASS
				RB1#13	22.16	23.16	38.45	PASS
				RB1#24	22.29	23.29	38.45	PASS
				RB12#0	21.03	22.03	38.45	PASS
				RB12#6	21.03	22.03	38.45	PASS
				RB12#13	21.04	22.04	38.45	PASS
				RB25#0	21.04	22.04	38.45	PASS

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BAND5	LTE/TM3	5M	LCH	RB1#0	21.18	22.18	38.45	PASS
				RB1#13	21.24	22.24	38.45	PASS
				RB1#24	21.19	22.19	38.45	PASS
				RB12#0	19.92	20.92	38.45	PASS
				RB12#6	19.93	20.93	38.45	PASS
				RB12#13	19.93	20.93	38.45	PASS
				RB25#0	19.86	20.86	38.45	PASS
			MCH	RB1#0	21.01	22.01	38.45	PASS
				RB1#13	21.10	22.10	38.45	PASS
				RB1#24	21.01	22.01	38.45	PASS
				RB12#0	20.03	21.03	38.45	PASS
				RB12#6	20.07	21.07	38.45	PASS
				RB12#13	20.02	21.02	38.45	PASS
				RB25#0	20.03	21.03	38.45	PASS
			HCH	RB1#0	21.55	22.55	38.45	PASS
				RB1#13	21.63	22.63	38.45	PASS
				RB1#24	21.55	22.55	38.45	PASS
				RB12#0	20.13	21.13	38.45	PASS
				RB12#6	20.15	21.15	38.45	PASS
				RB12#13	20.12	21.12	38.45	PASS
				RB25#0	19.99	20.99	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	22.86	23.86	38.45	PASS
				RB1#25	22.85	23.85	38.45	PASS
				RB1#49	22.81	23.81	38.45	PASS
				RB25#0	21.94	22.94	38.45	PASS
				RB25#13	21.96	22.96	38.45	PASS
				RB25#25	21.92	22.92	38.45	PASS
				RB50#0	21.92	22.92	38.45	PASS
			MCH	RB1#0	22.94	23.94	38.45	PASS
				RB1#25	22.92	23.92	38.45	PASS
				RB1#49	22.88	23.88	38.45	PASS
				RB25#0	22.04	23.04	38.45	PASS
				RB25#13	22.04	23.04	38.45	PASS
				RB25#25	22.00	23.00	38.45	PASS
				RB50#0	22.03	23.03	38.45	PASS
			HCH	RB1#0	22.87	23.87	38.45	PASS
				RB1#25	22.85	23.85	38.45	PASS
				RB1#49	22.84	23.84	38.45	PASS
				RB25#0	21.89	22.89	38.45	PASS
				RB25#13	21.93	22.93	38.45	PASS
				RB25#25	21.90	22.90	38.45	PASS
				RB50#0	21.91	22.91	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	22.06	23.06	38.45	PASS
				RB1#25	22.15	23.15	38.45	PASS
				RB1#49	21.99	22.99	38.45	PASS
				RB25#0	20.96	21.96	38.45	PASS
				RB25#13	20.95	21.95	38.45	PASS
				RB25#25	20.96	21.96	38.45	PASS
				RB50#0	20.92	21.92	38.45	PASS
			MCH	RB1#0	22.40	23.40	38.45	PASS
				RB1#25	22.36	23.36	38.45	PASS
				RB1#49	22.37	23.37	38.45	PASS
				RB25#0	21.06	22.06	38.45	PASS
				RB25#13	21.07	22.07	38.45	PASS
				RB25#25	21.03	22.03	38.45	PASS
				RB50#0	21.05	22.05	38.45	PASS
			HCH	RB1#0	22.14	23.14	38.45	PASS
				RB1#25	22.17	23.17	38.45	PASS
				RB1#49	22.17	23.17	38.45	PASS
				RB25#0	20.90	21.90	38.45	PASS
				RB25#13	20.95	21.95	38.45	PASS
				RB25#25	20.87	21.87	38.45	PASS
				RB50#0	20.95	21.95	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/TM3	10M	LCH	RB1#0	20.76	21.76	38.45	PASS
				RB1#25	20.70	21.70	38.45	PASS
				RB1#49	20.70	21.70	38.45	PASS
				RB25#0	20.00	21.00	38.45	PASS
				RB25#13	19.99	20.99	38.45	PASS
				RB25#25	19.98	20.98	38.45	PASS
				RB50#0	19.95	20.95	38.45	PASS
			MCH	RB1#0	21.24	22.24	38.45	PASS
				RB1#25	21.16	22.16	38.45	PASS
				RB1#49	21.16	22.16	38.45	PASS
				RB25#0	19.96	20.96	38.45	PASS
				RB25#13	19.99	20.99	38.45	PASS
				RB25#25	19.94	20.94	38.45	PASS
				RB50#0	20.04	21.04	38.45	PASS
			HCH	RB1#0	21.44	22.44	38.45	PASS
				RB1#25	21.44	22.44	38.45	PASS
				RB1#49	21.42	22.42	38.45	PASS
				RB25#0	19.89	20.89	38.45	PASS
				RB25#13	19.93	20.93	38.45	PASS
				RB25#25	19.87	20.87	38.45	PASS
				RB50#0	19.90	20.90	38.45	PASS

Note:

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

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

b: SGP=Signal Generator Level

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

Detector: RMS



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	4.67	13	PASS
		MCH	4.90	13	PASS
		HCH	4.84	13	PASS
	TM2/10M	LCH	5.65	13	PASS
		MCH	5.97	13	PASS
		HCH	5.88	13	PASS
	TM3/10M	LCH	6.41	13	PASS
		MCH	6.49	13	PASS
		HCH	6.41	13	PASS



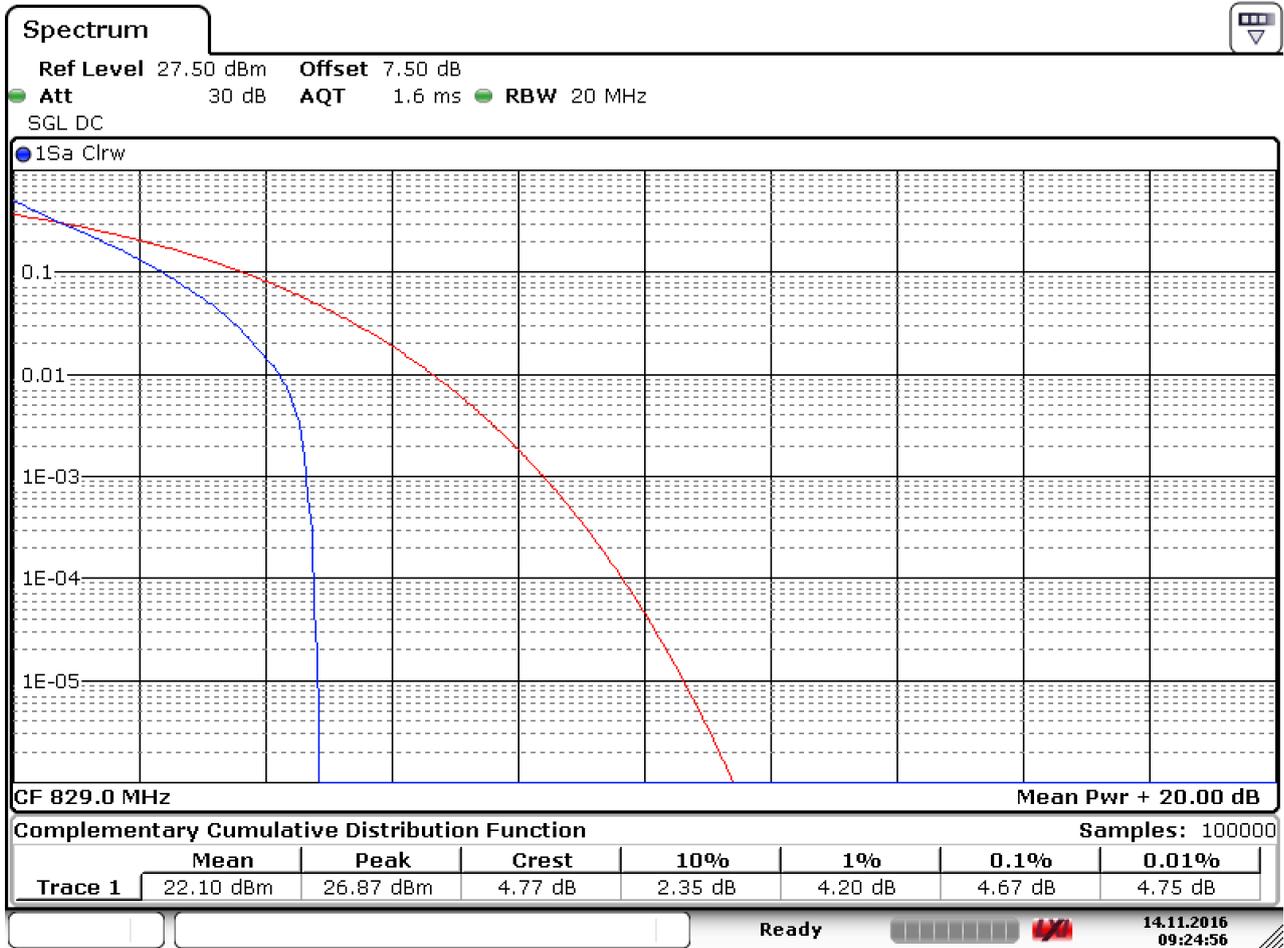
Part II - Test Plots

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

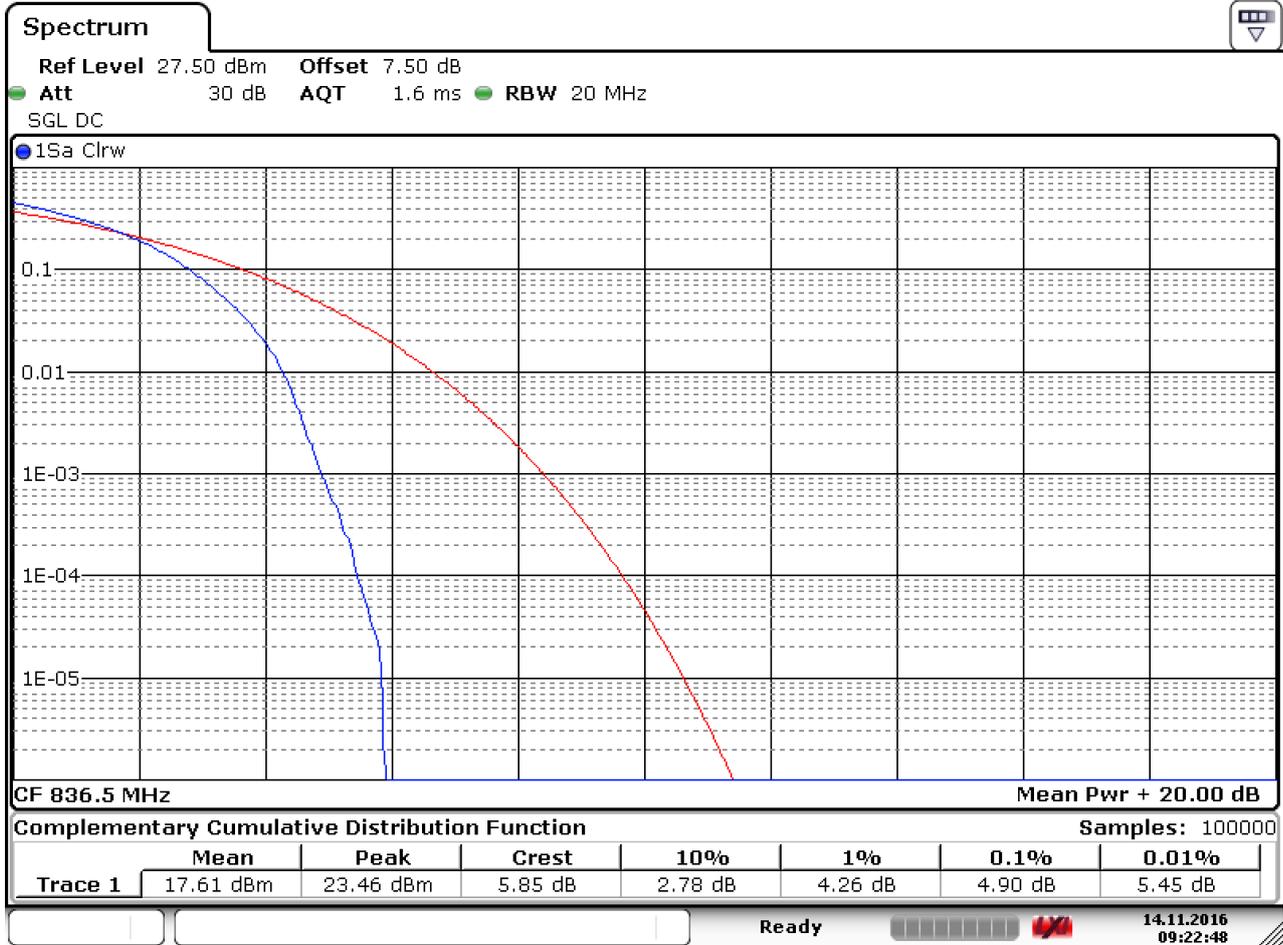


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2.1.1.1.2 Test Channel = MCH

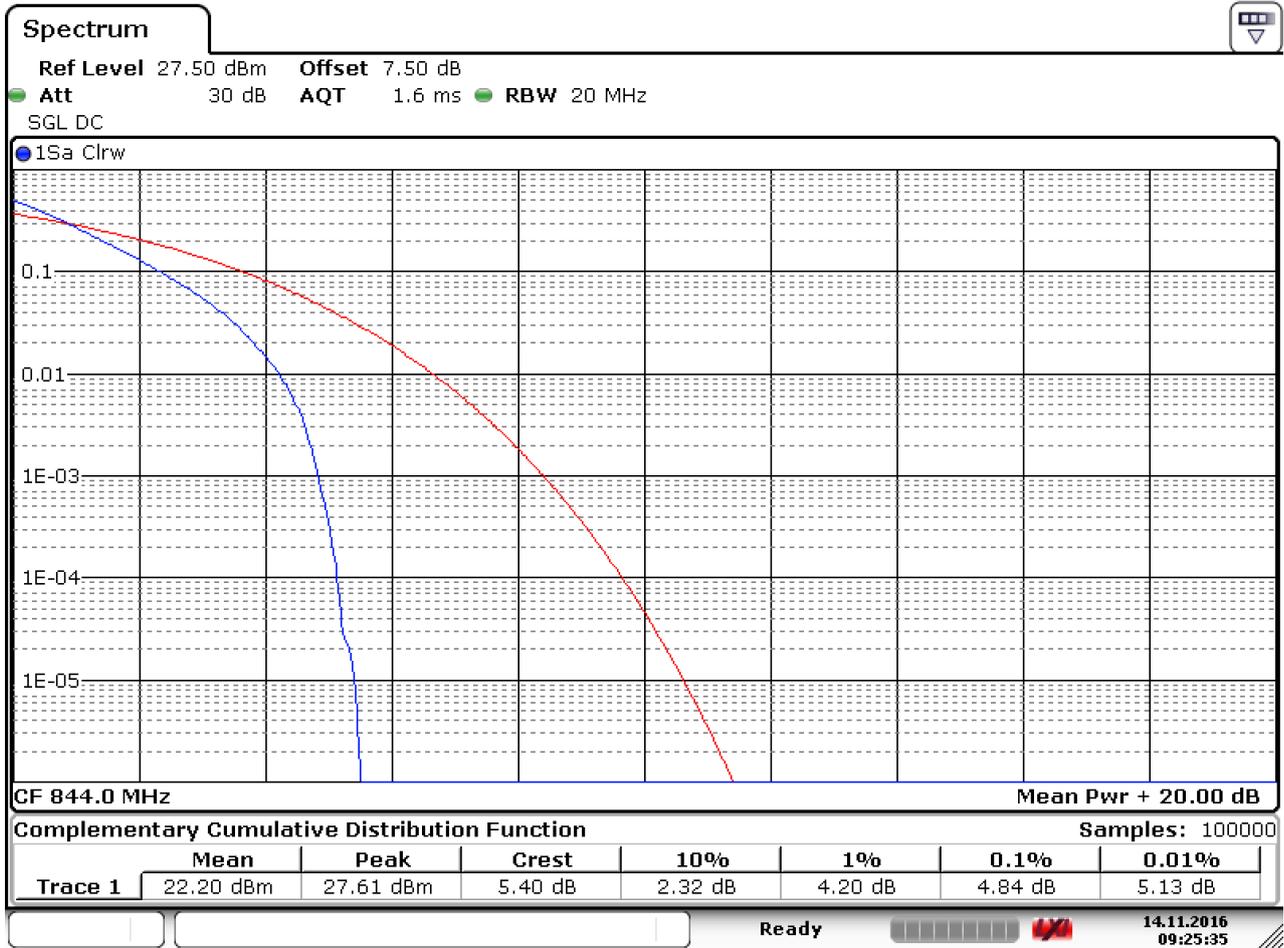


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2.1.1.1.3 Test Channel = HCH



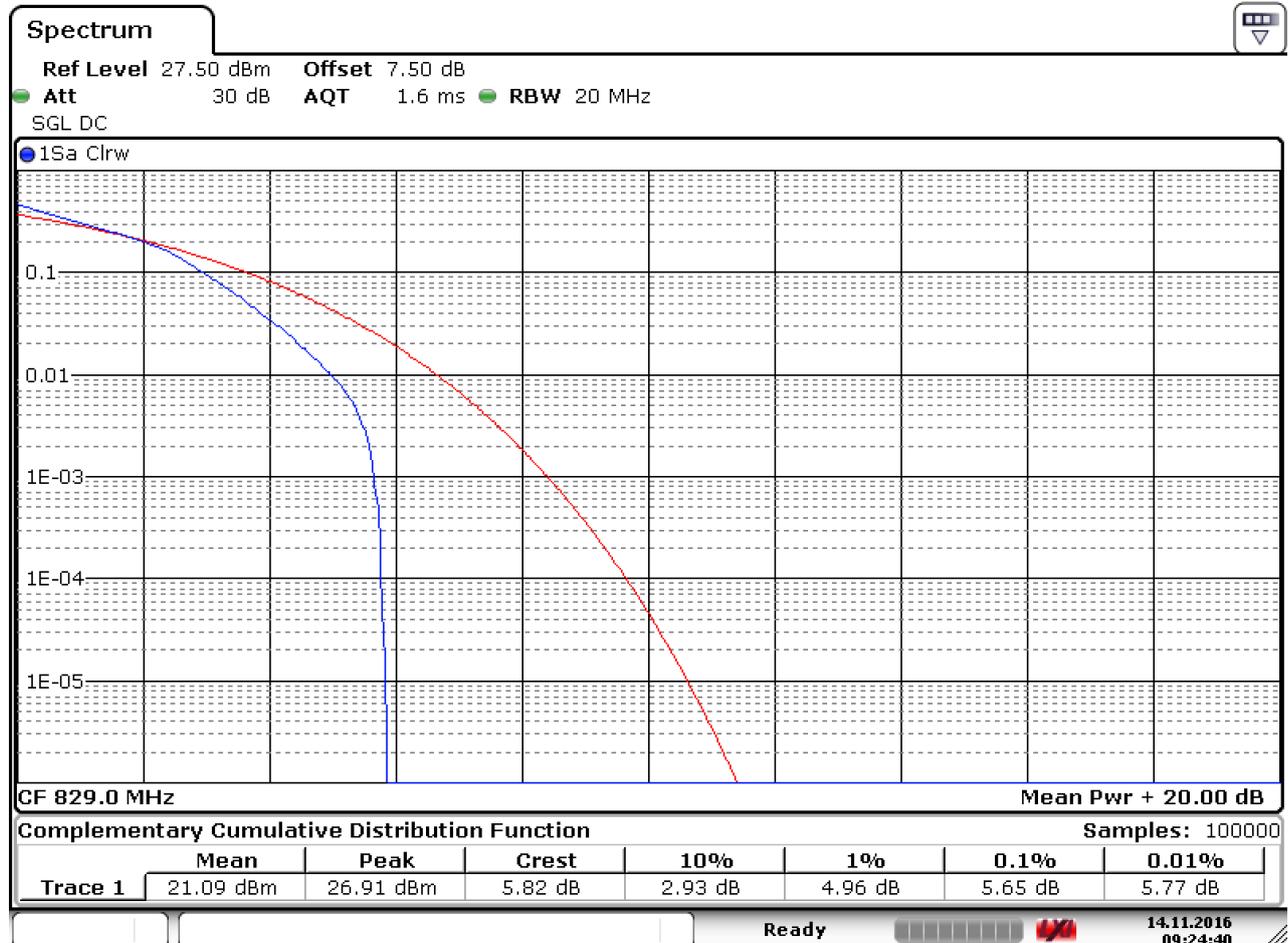
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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

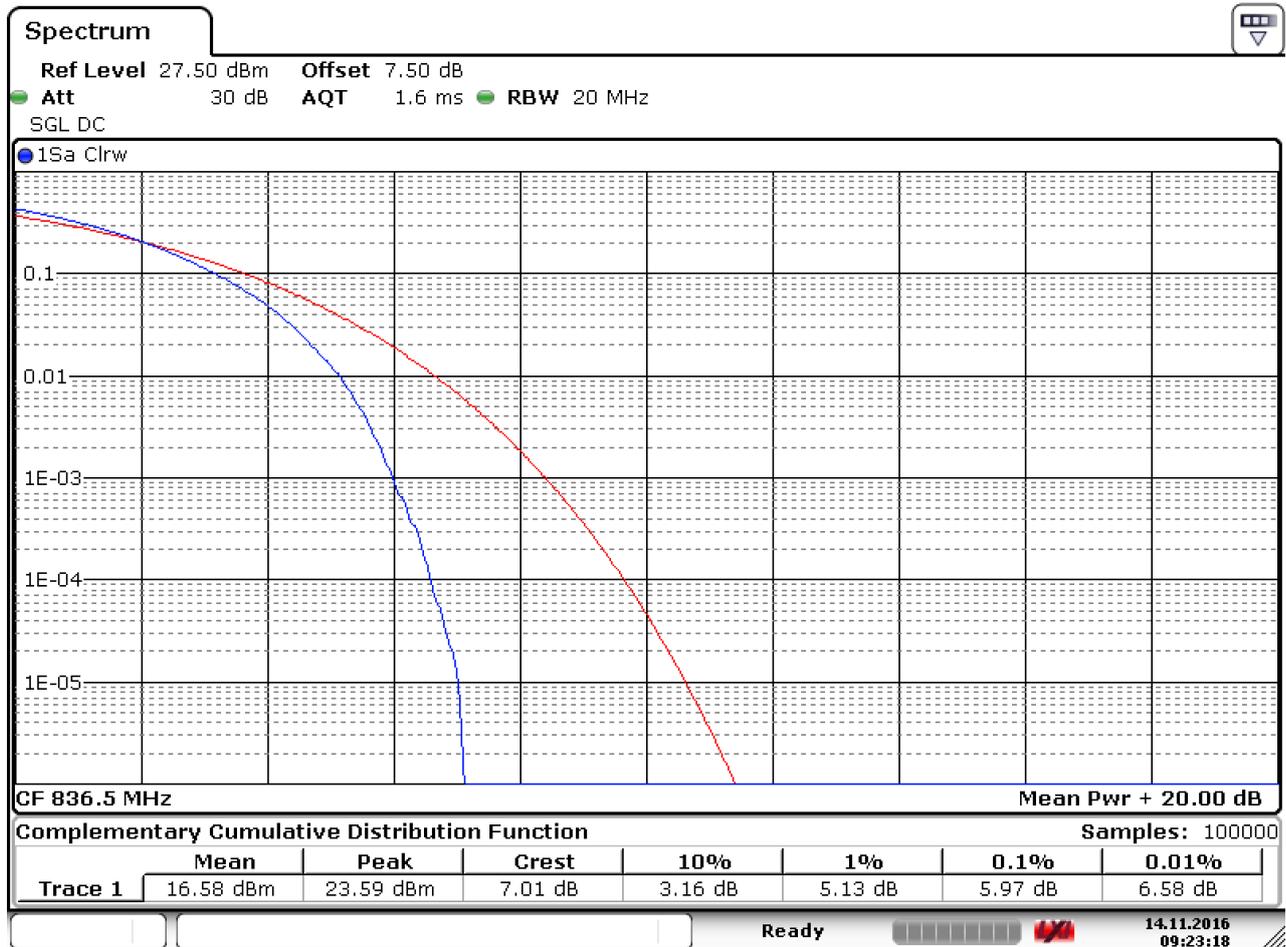
2.1.1.2.1 Test Channel = LCH



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2.1.1.2.2 Test Channel = MCH

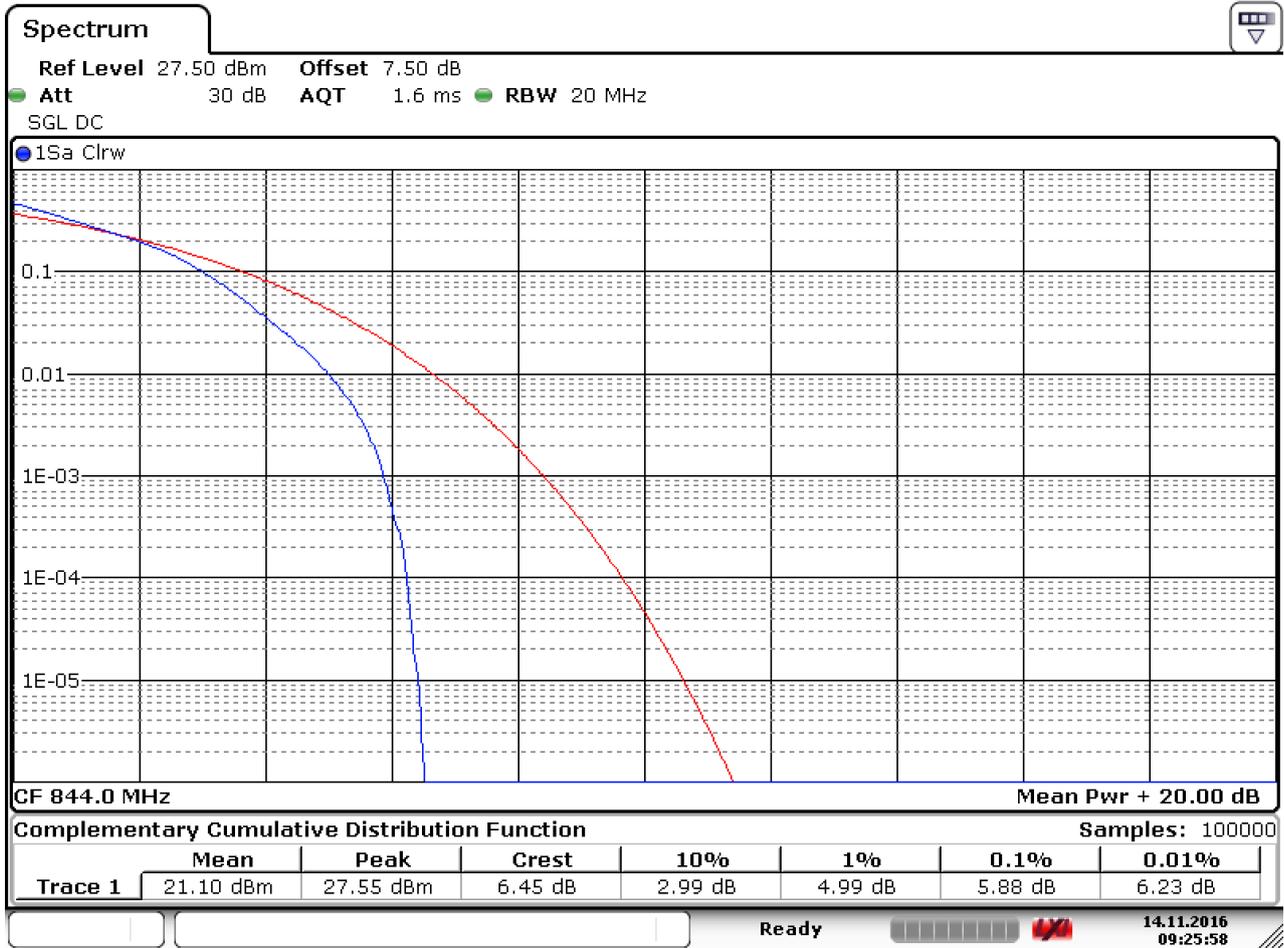


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2.1.1.2.3 Test Channel = HCH



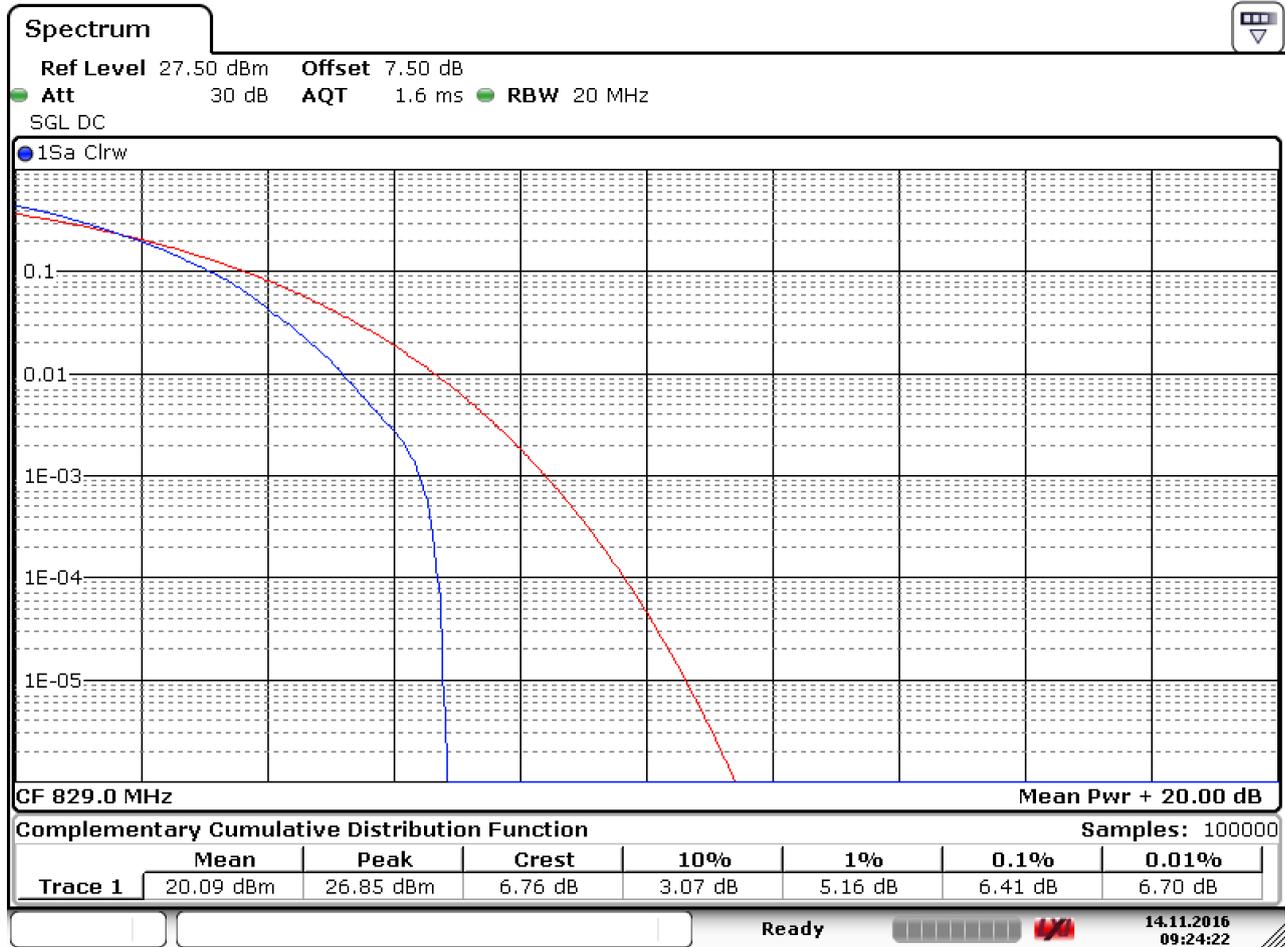
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2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

2.1.1.3.1 Test Channel = LCH

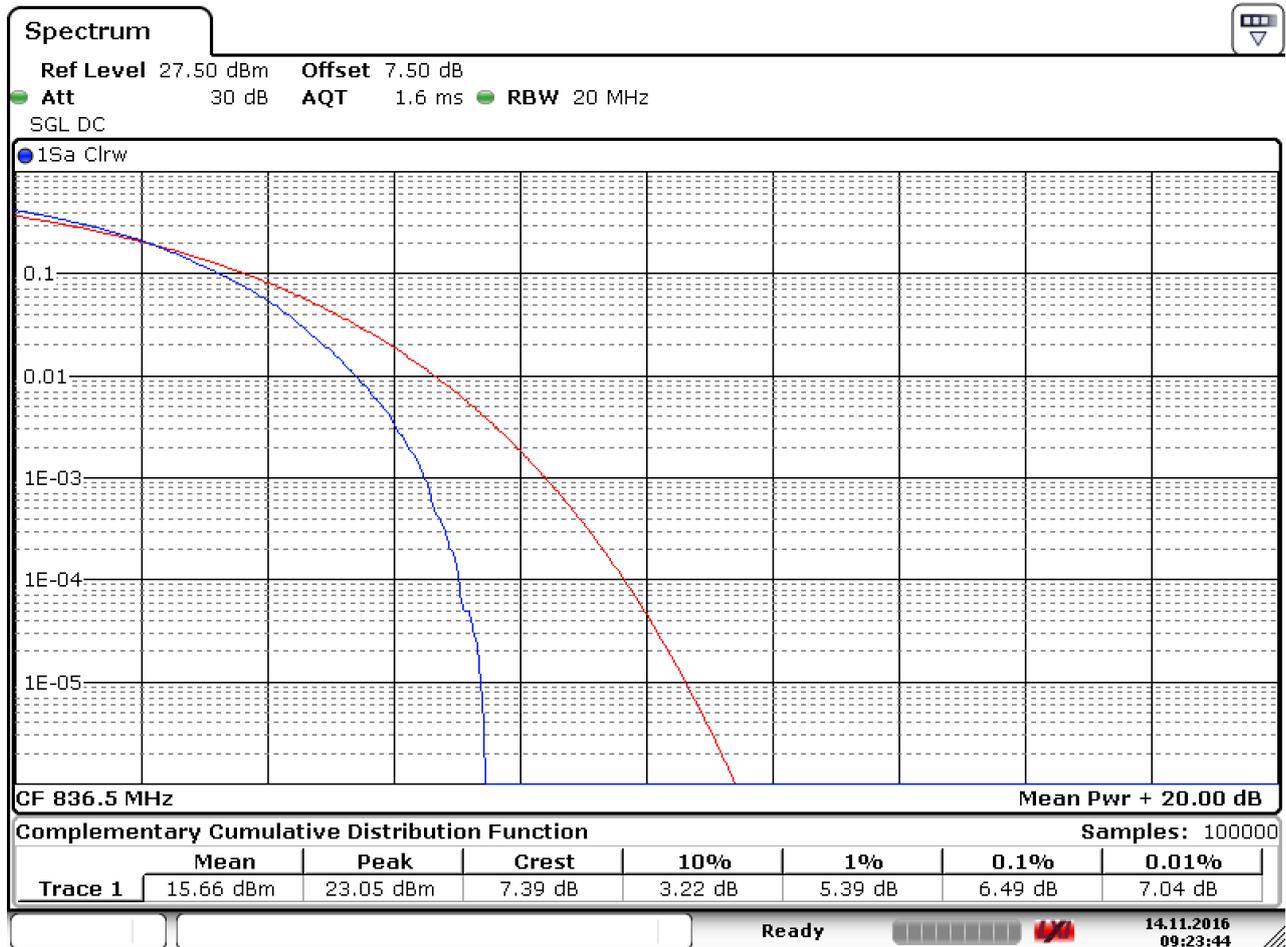


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2.1.1.3.2 Test Channel = MCH

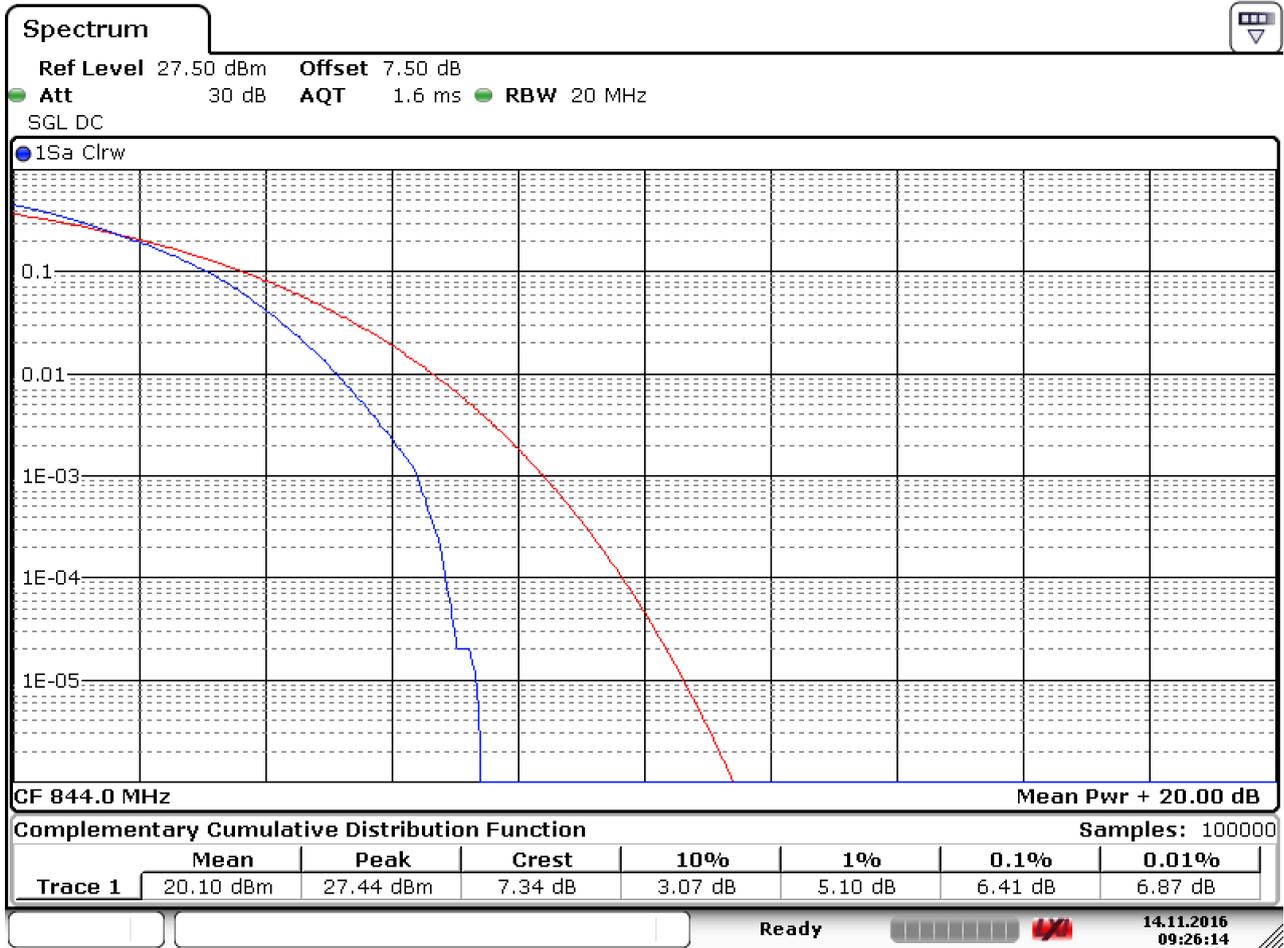


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2.1.1.3.3 Test Channel = HCH



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3 Modulation Characteristics

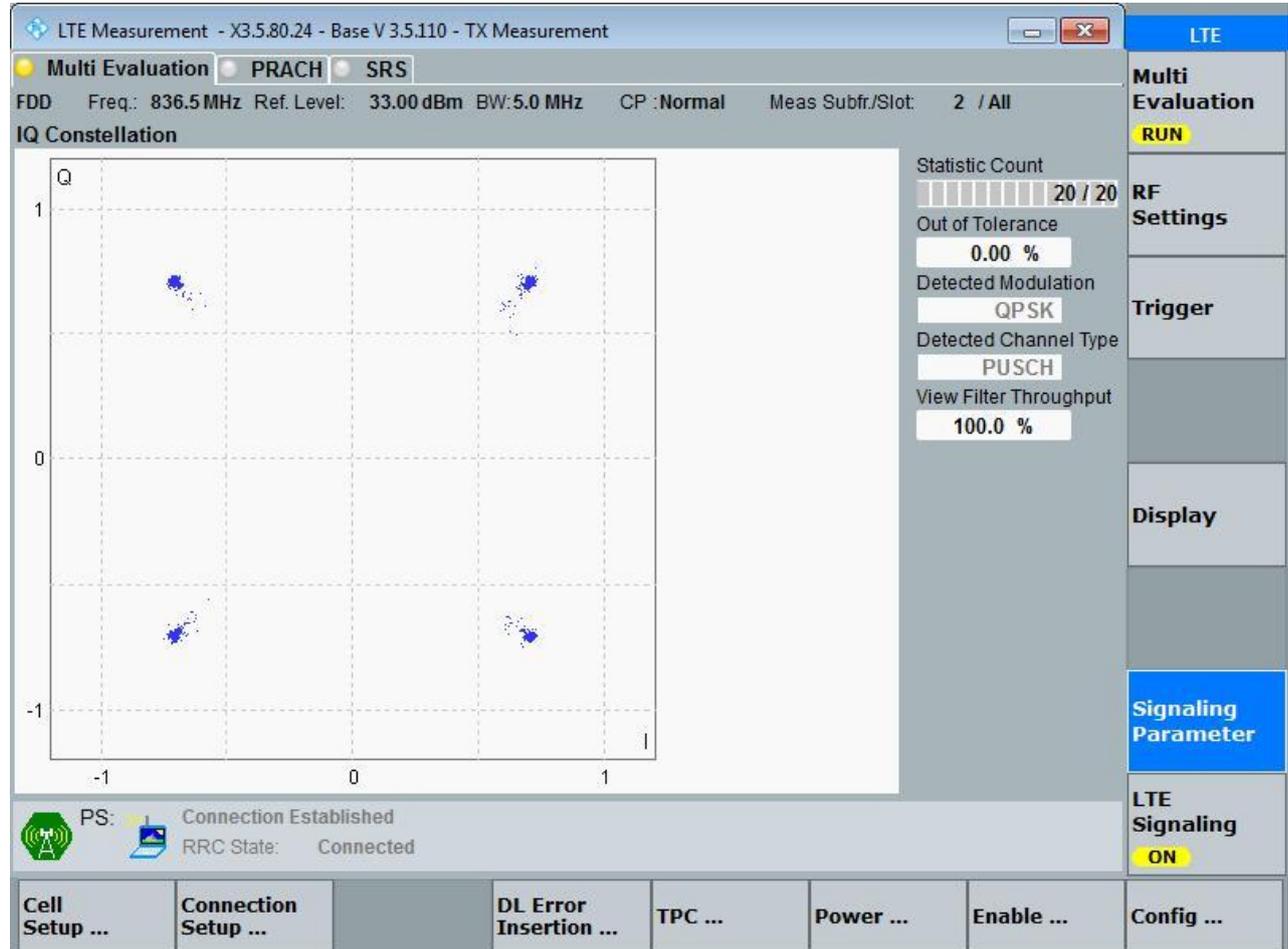
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band5

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

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq.: 836.5 MHz', 'Ref. Level: 32.60 dBm', 'BW: 10.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / All'.
- IQ Constellation:** A central plot showing the IQ constellation with four distinct clusters of blue dots, representing QPSK modulation. The axes range from -1 to 1.
- Right Panel:** Contains various statistics and settings:
 - Statistic Count: 20 / 20
 - Out of Tolerance: 0.00 %
 - Detected Modulation: QPSK
 - Detected Channel Type: PUSCH
 - View Filter Throughput: 100.0 %
- Bottom Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'.
- Bottom Navigation:** A row of buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.
- Right Sidebar:** A vertical menu with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.



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 - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 836.5 MHz, Ref. Level: 33.00 dBm, BW: 5.0 MHz, CP: Normal, Meas Subfr./Slot: 2 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "Statistic Count" is 20 / 20, "Out of Tolerance" is 0.00 %, "Detected Modulation" is 16-QAM, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface also includes a "PS: Connection Established" status bar, "RRC State: Connected", and a "Cell Setup ..." button. The right sidebar contains buttons for "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling ON".



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 - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" sub-tab. The interface shows the following parameters: FDD, Freq.: 836.5 MHz, Ref. Level: 32.60 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr./Slot: 2 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the expected positions. The right-hand side of the interface contains a "Statistic Count" section with a progress bar for 20/20 samples, and a "View Filter Throughput" section showing 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 ...".



3.1.1.5 Test Mode = LTE /TM3 5MHz

3.1.1.5.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq: 836.5 MHz', 'Ref. Level: 33.00 dBm', 'BW: 5.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / All'.
- IQ Constellation:** A central plot showing a 64-QAM constellation diagram with points distributed in a grid. The vertical axis is labeled 'Q' and ranges from -1 to 1. The horizontal axis ranges from -1 to 1.
- Statistics Panel:** Located on the right side of the plot, it includes:
 - Statistic Count: 20 / 20
 - Out of Tolerance: 0.00 %
 - Detected Modulation: 64-QAM
 - Detected Channel Type: PUSCH
 - View Filter Throughput: 100.0 %
- Right-Hand Side Panel:** A vertical menu with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling'. The 'RUN' and 'LTE Signaling' buttons are highlighted in yellow.
- Bottom Status Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'. Below this is a row of buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.6 Test Mode = LTE /TM3 10MHz

3.1.1.6.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab with sub-tabs for "PRACH" and "SRS". The interface shows the following parameters: FDD, Freq.: 836.5 MHz, Ref. Level: 32.60 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr/Slot: 2 / All. The "IQ Constellation" plot shows a grid of points with axes ranging from -1 to 1. The "Statistic Count" is 20 / 20, with "Out of Tolerance" at 0.00%. The "Detected Modulation" is 64-QAM and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%. The interface includes a sidebar with buttons for "LTE", "Multi Evaluation", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling". The "LTE Signaling" button is highlighted with a yellow "ON" indicator. At the bottom, there is a status bar showing "PS: Connection Established" and "RRC State: Connected". Below the status bar are several configuration buttons: "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 5	TM1/ 5MHz	LCH	4.49	4.90	PASS
		MCH	4.48	4.90	PASS
		HCH	4.47	4.88	PASS
	TM2/ 5MHz	LCH	4.49	4.90	PASS
		MCH	4.47	4.85	PASS
		HCH	4.48	4.93	PASS
	TM3/5MHz	LCH	4.49	4.90	PASS
		MCH	4.47	4.86	PASS
		HCH	4.47	4.89	PASS
	TM1/10MHz	LCH	8.95	9.71	PASS
		MCH	8.93	9.69	PASS
		HCH	8.93	9.67	PASS
	TM2/ 10MHz	LCH	8.95	9.61	PASS
		MCH	8.95	9.65	PASS
		HCH	8.93	9.65	PASS
	TM3/ 10MHz	LCH	8.93	9.71	PASS
		MCH	8.93	9.65	PASS
		HCH	8.93	9.67	PASS

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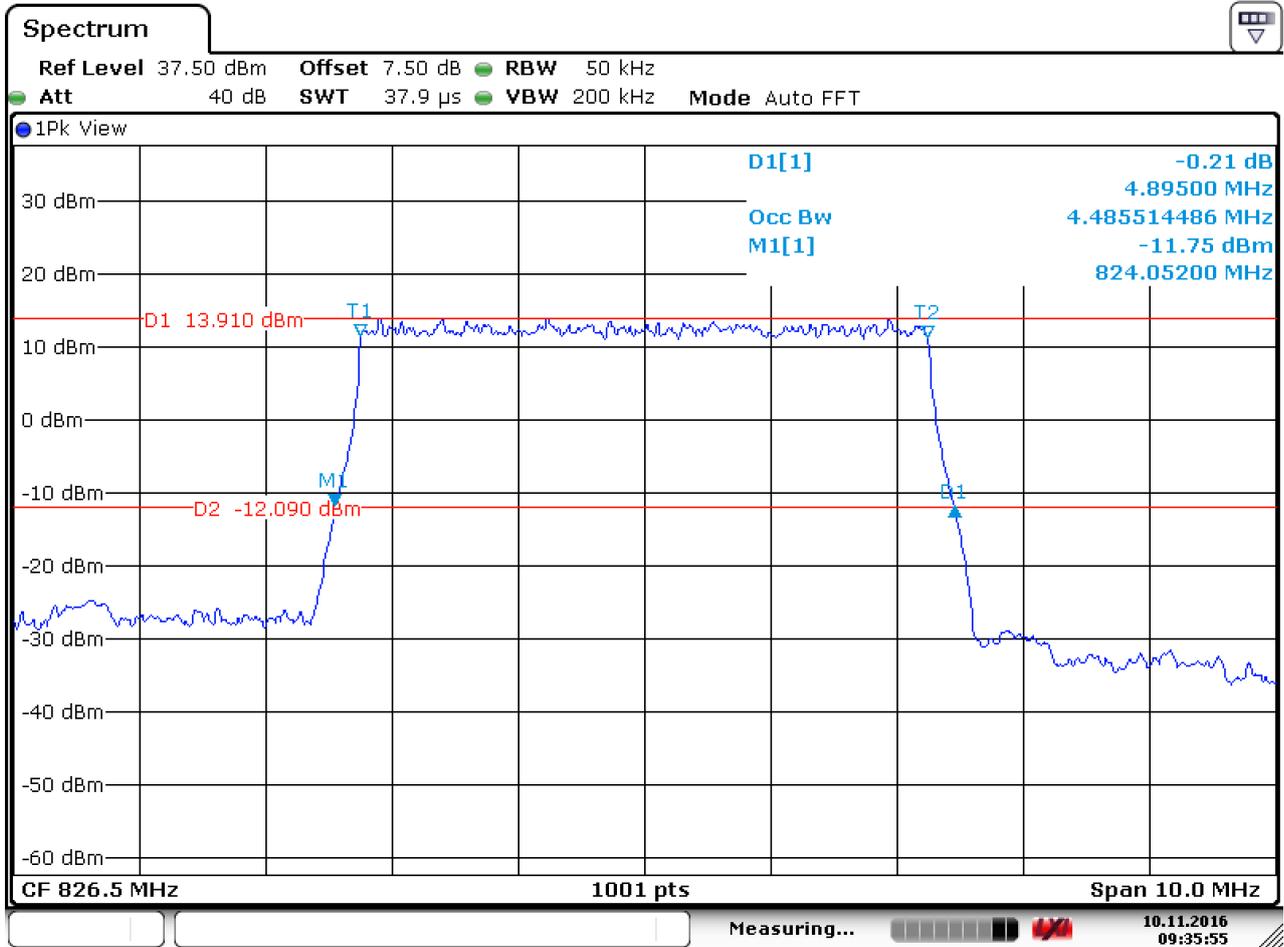


4.1 For LTE

4.1.1 Test Band = LTE band5

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH

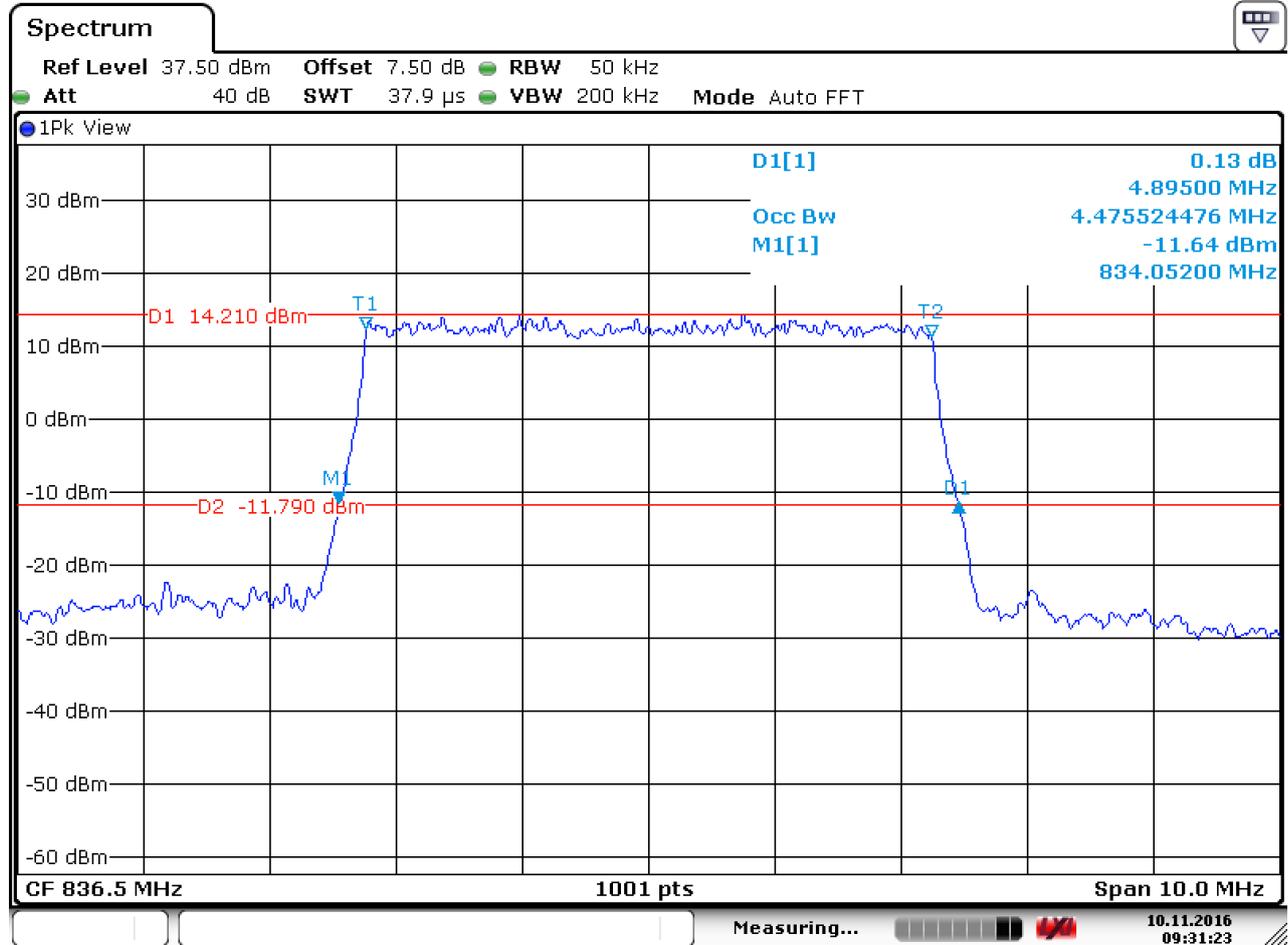


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4.1.1.1.2 Test Channel = MCH

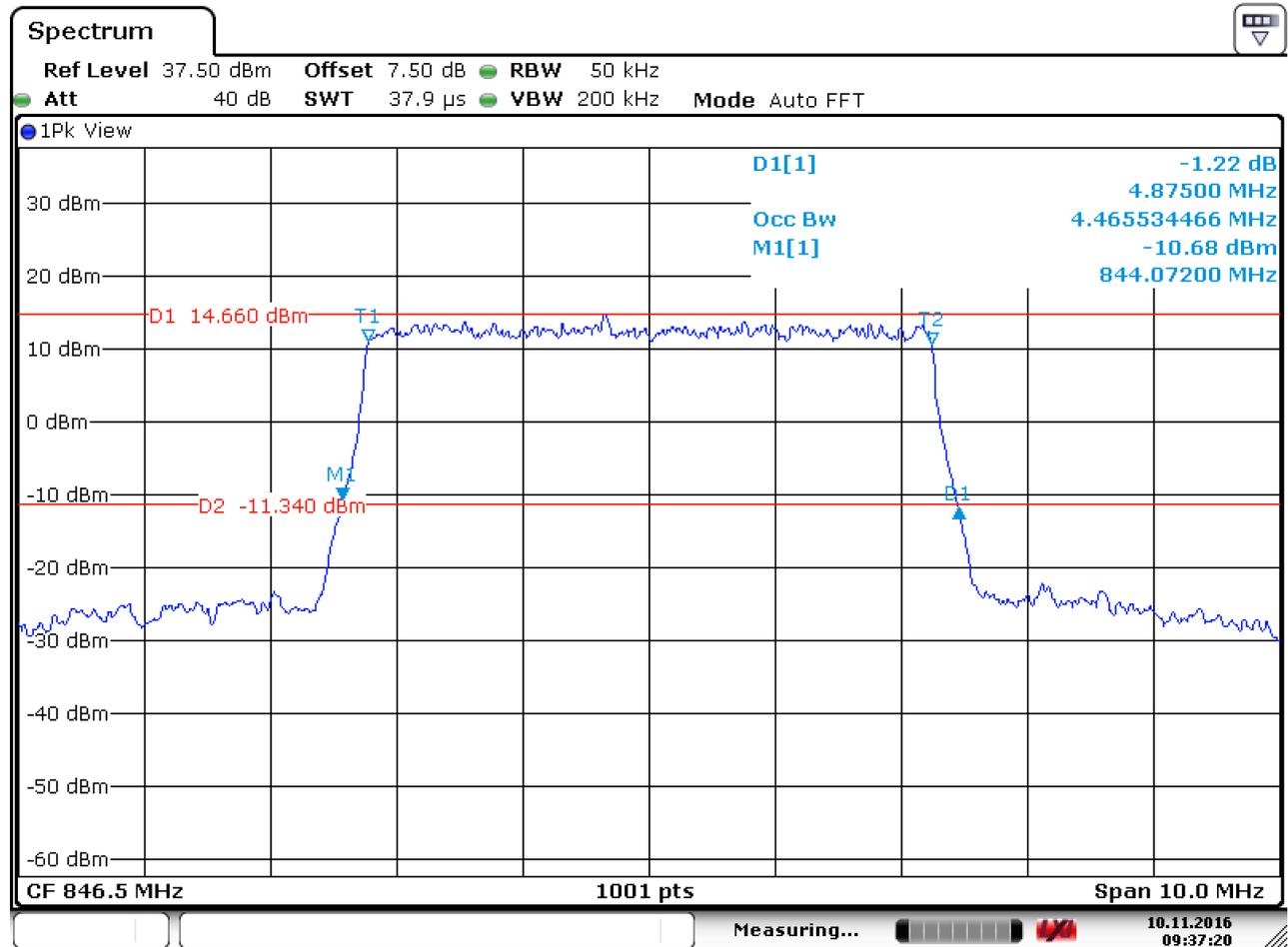


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4.1.1.1.3 Test Channel = HCH

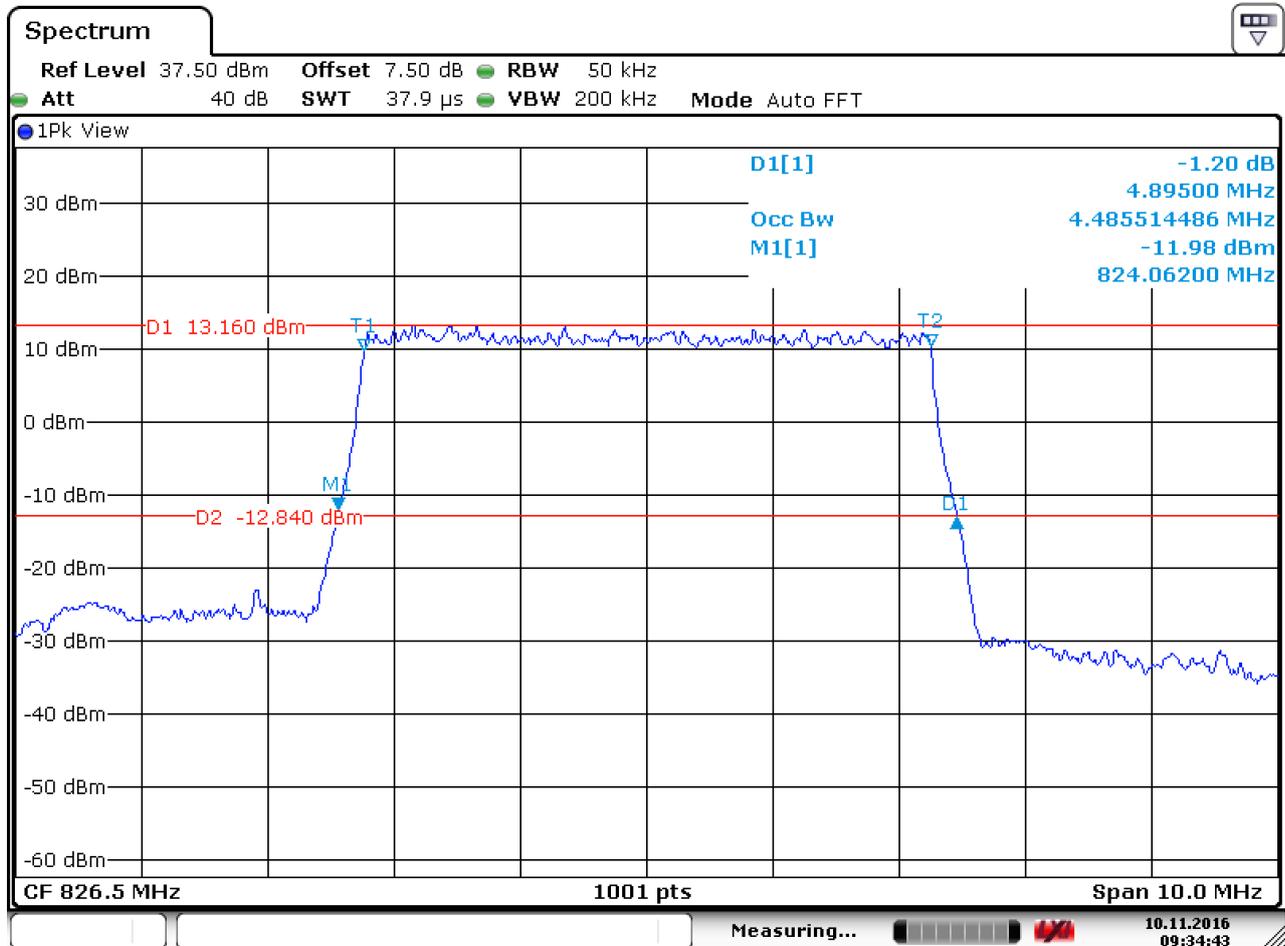


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4.1.1.2 Test Mode = LTE/TM2 5MHz

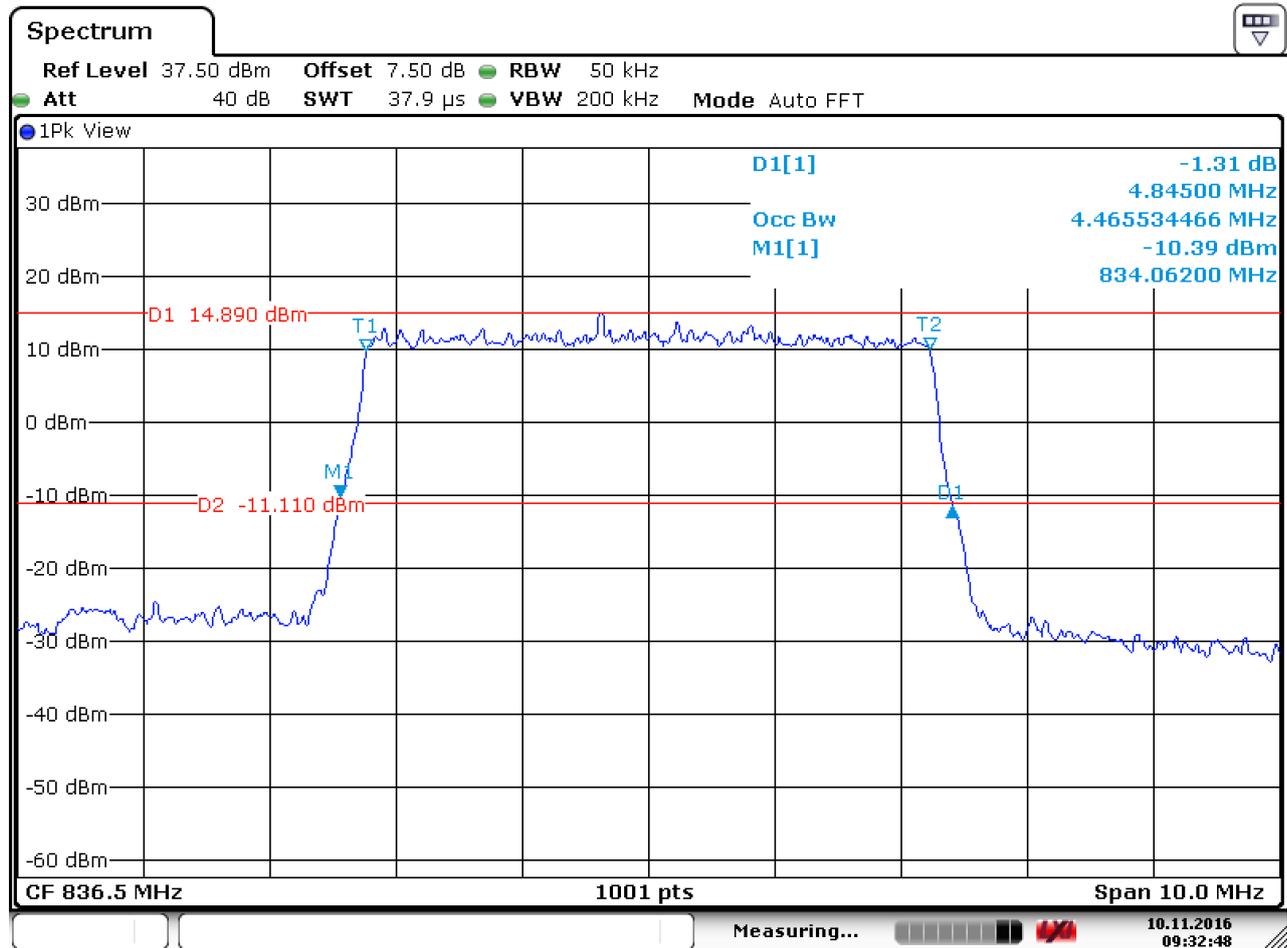
4.1.1.2.1 Test Channel = LCH



Date: 10.NOV.2016 09:34:44



4.1.1.2.2 Test Channel = MCH

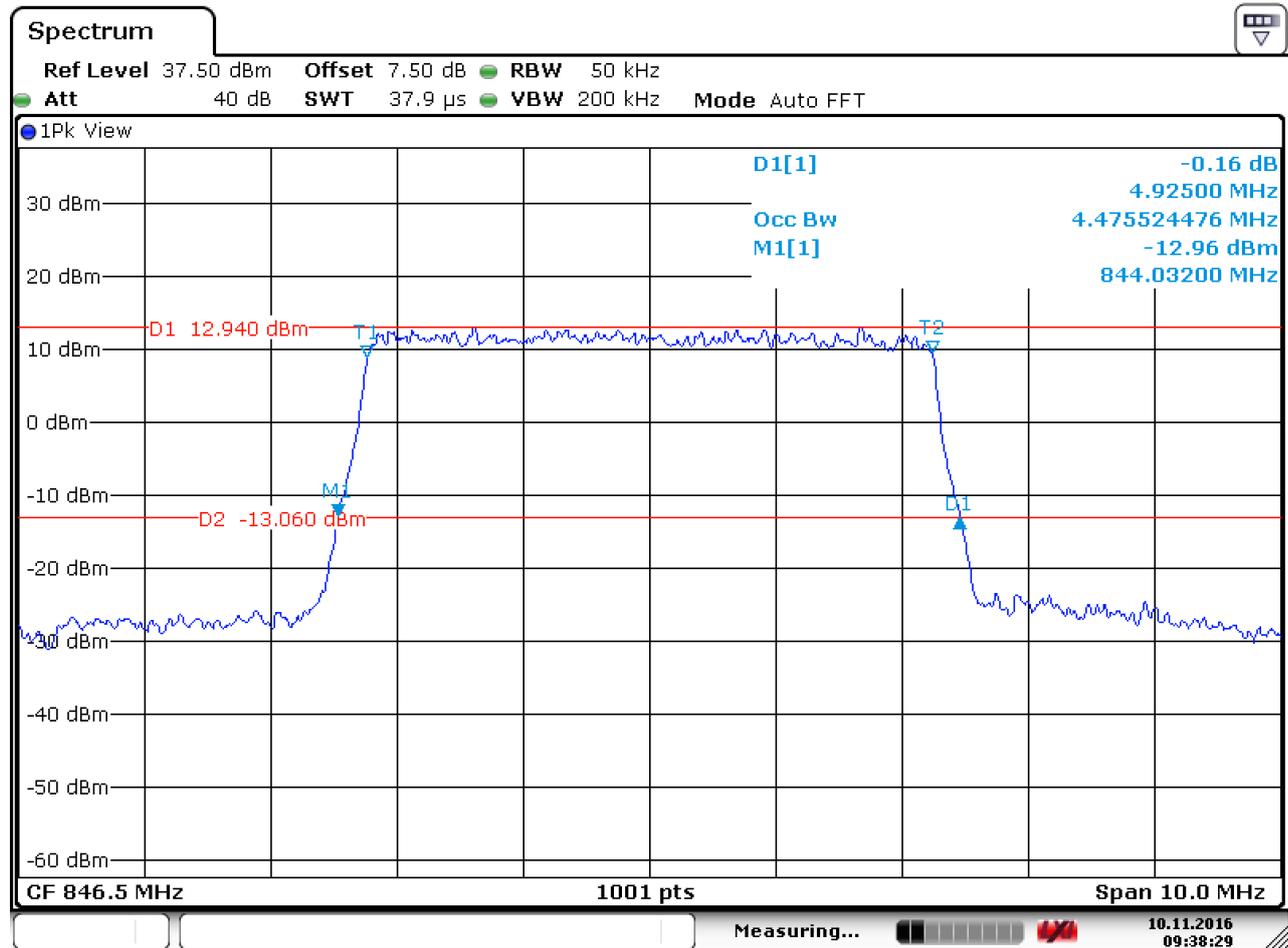


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4.1.1.2.3 Test Channel = HCH



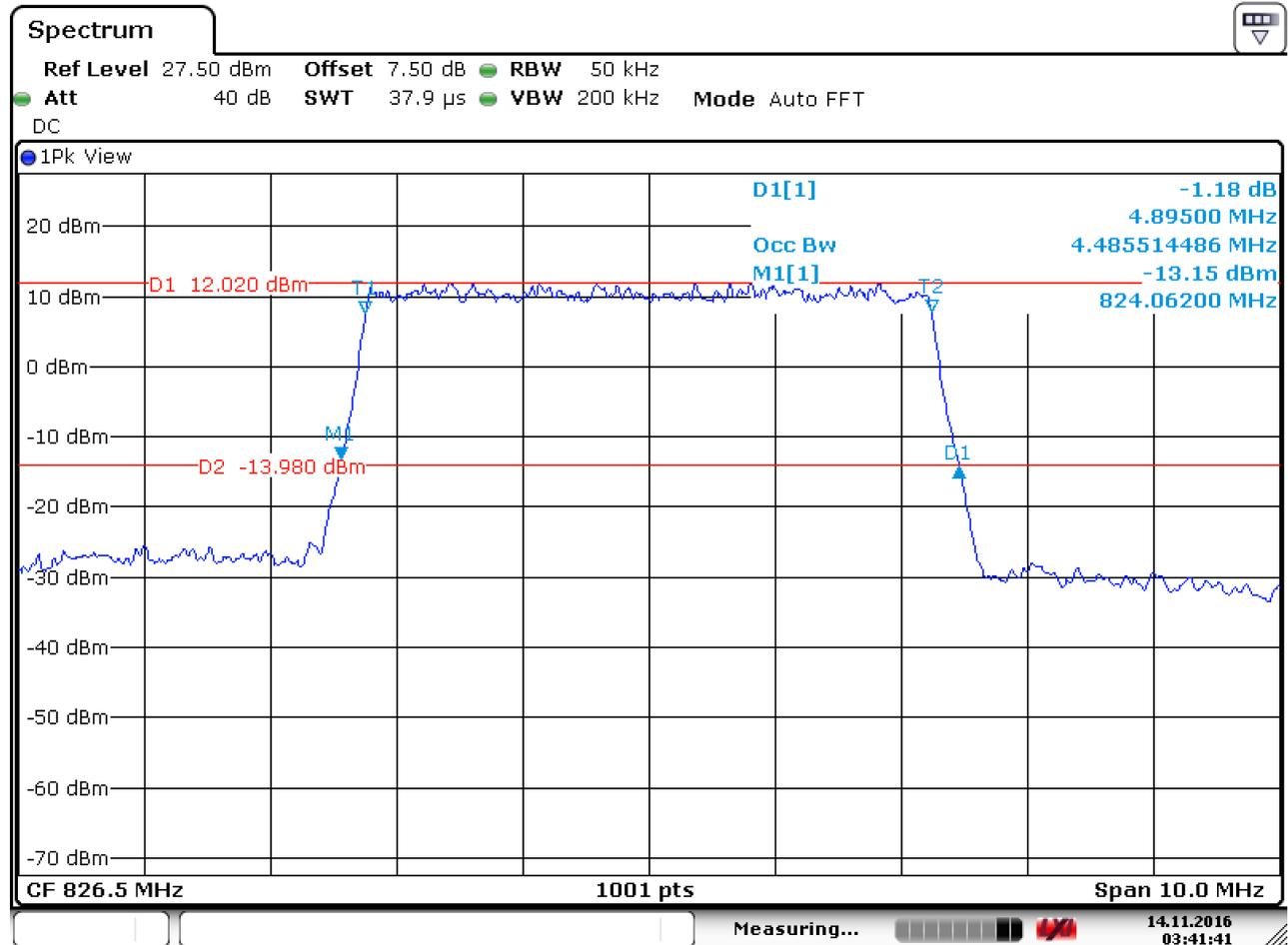
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4.1.1.3 Test Mode = LTE/TM3 5MHz

4.1.1.3.1 Test Channel = LCH

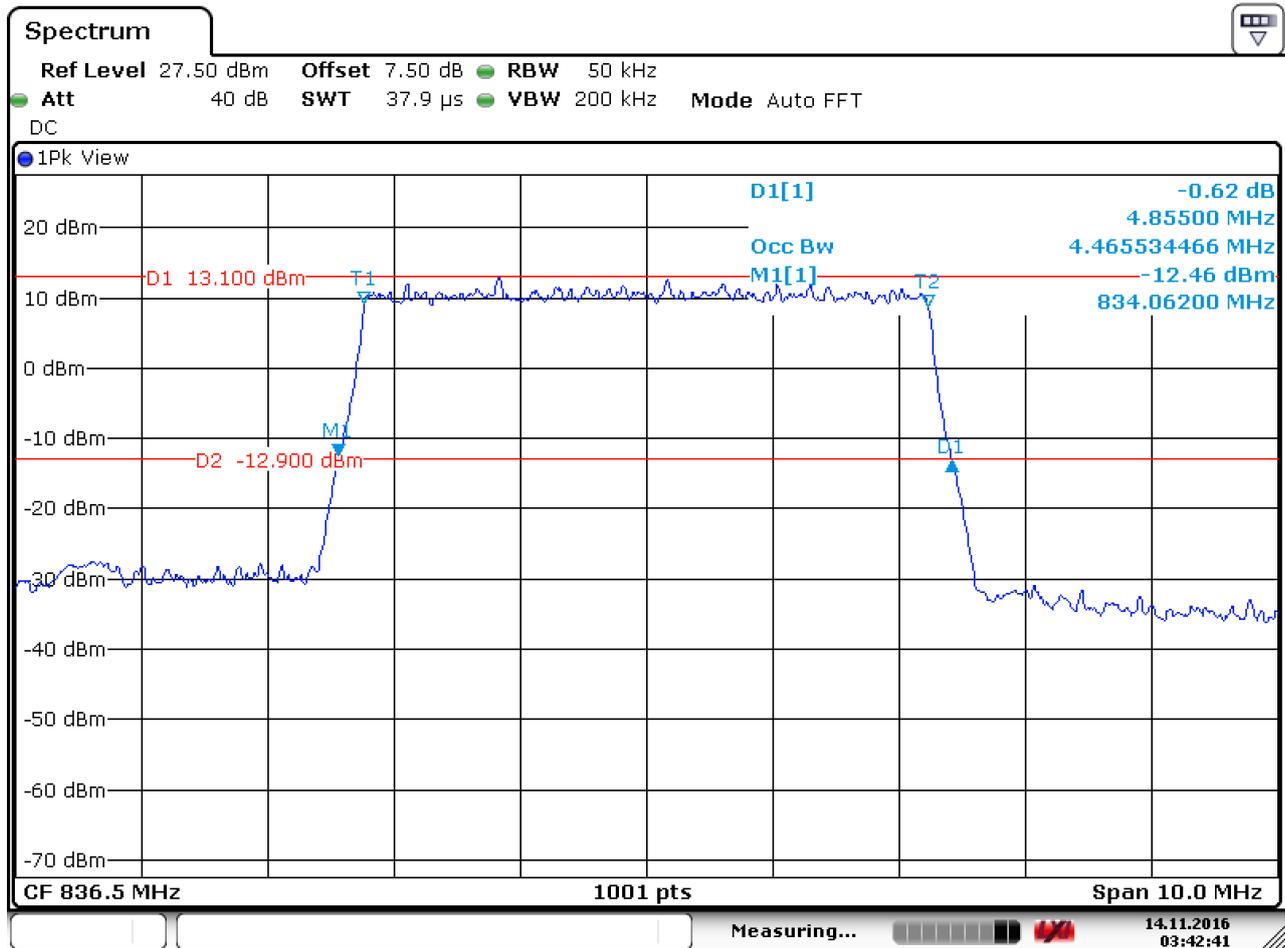


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4.1.1.3.2 Test Channel = MCH

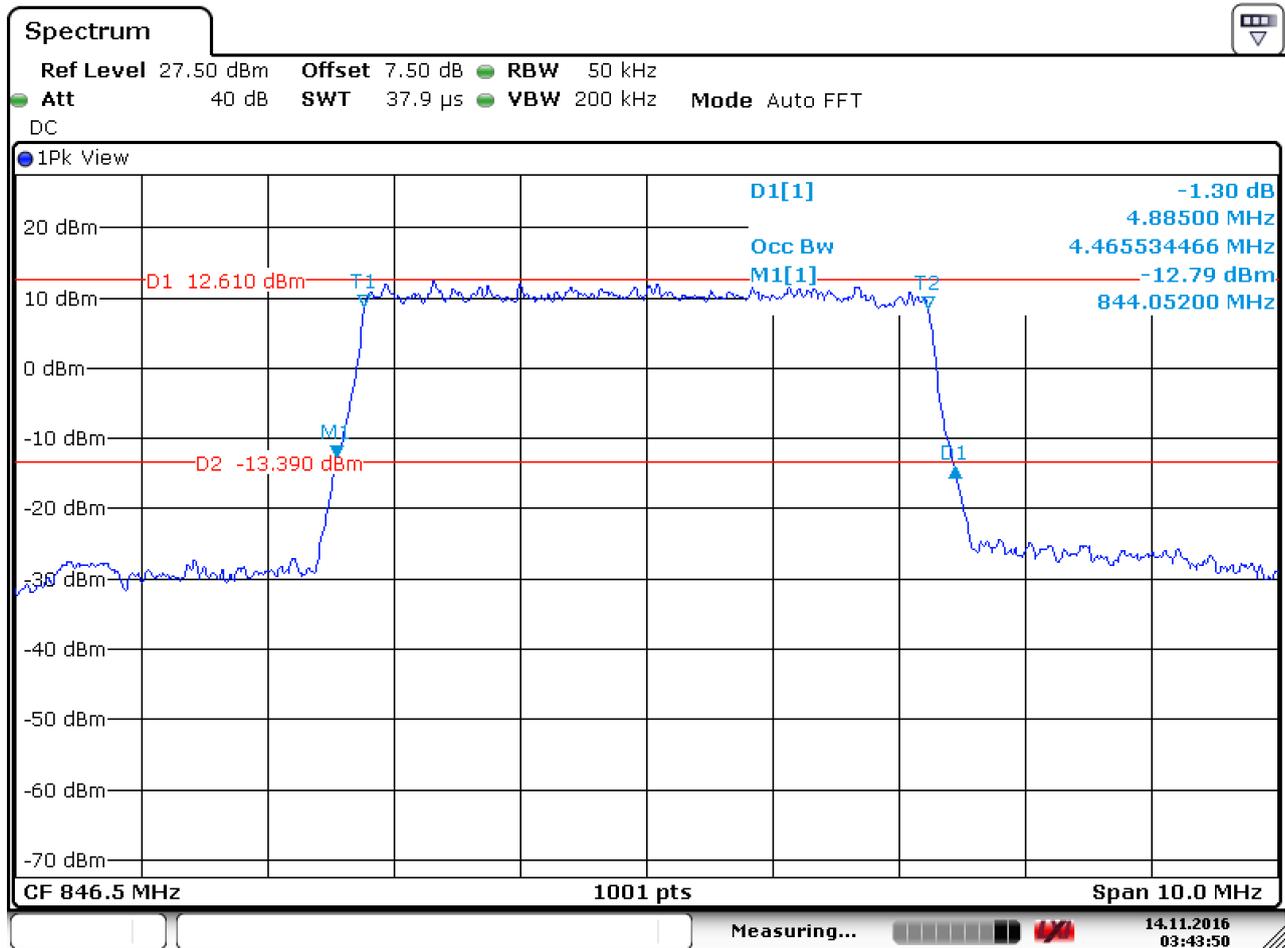


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4.1.1.3.3 Test Channel = HCH



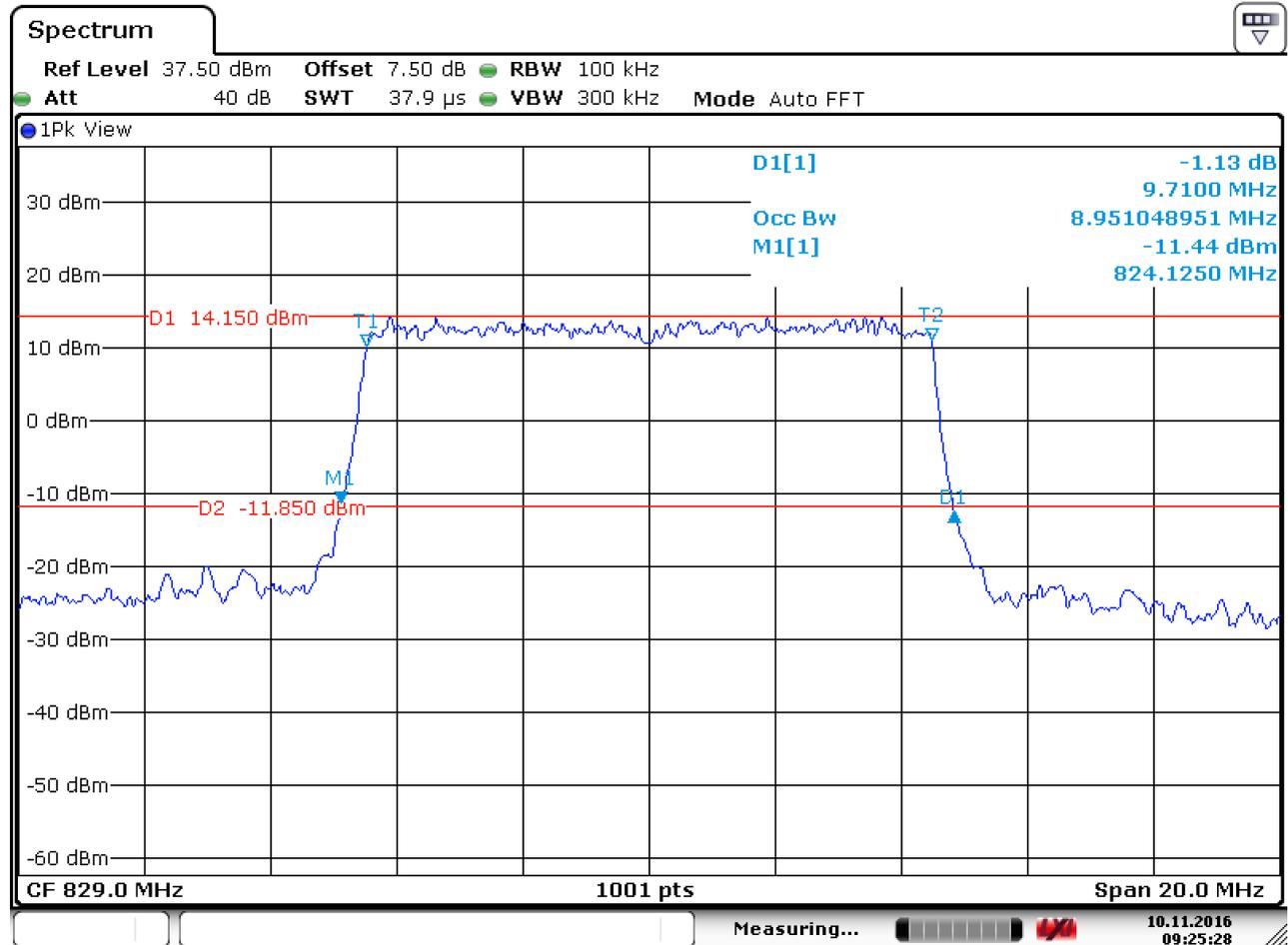
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4.1.1.4 Test Mode = LTE/TM1 10MHz

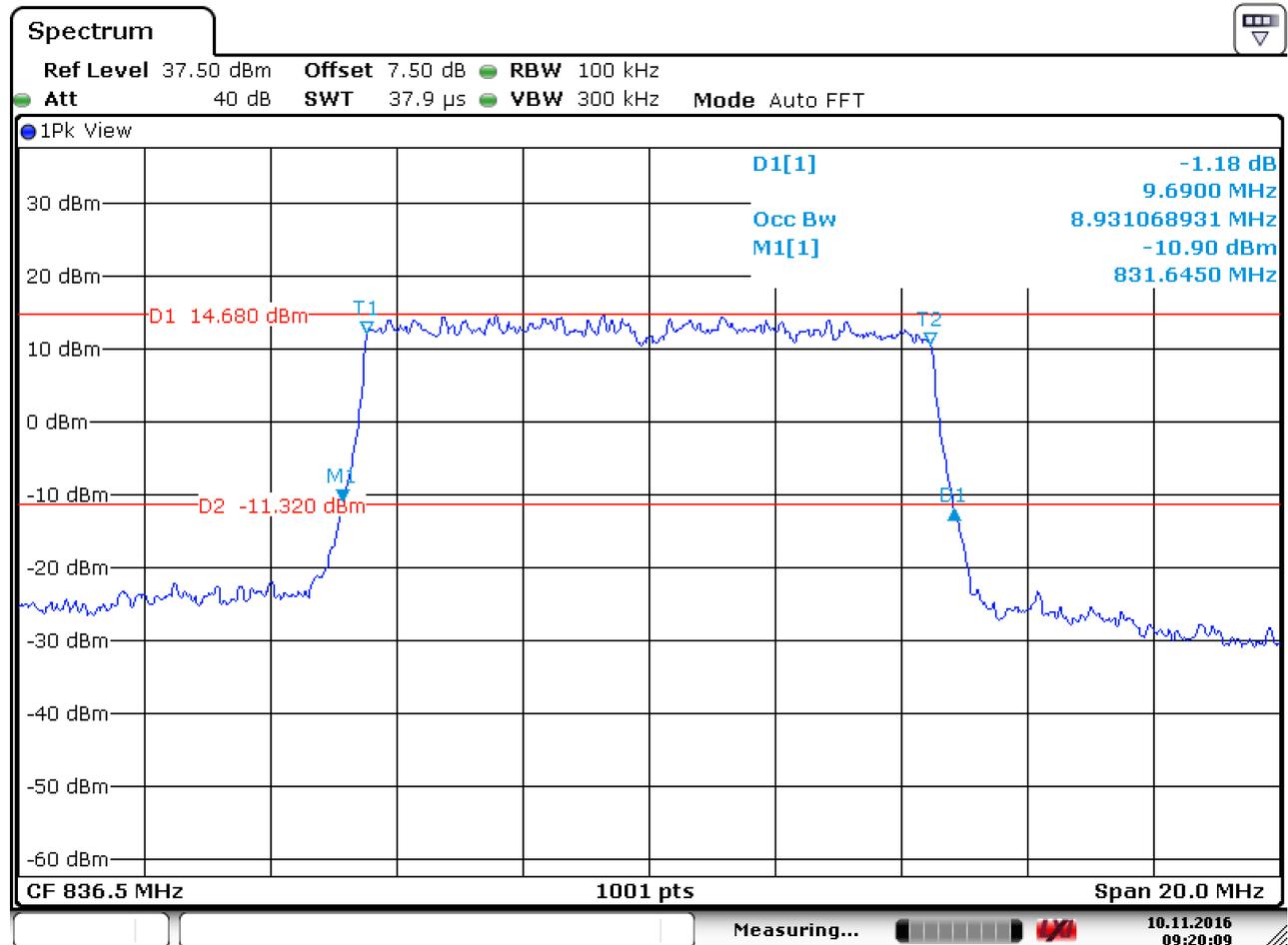
4.1.1.4.1 Test Channel = LCH



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4.1.1.4.2 Test Channel = MCH

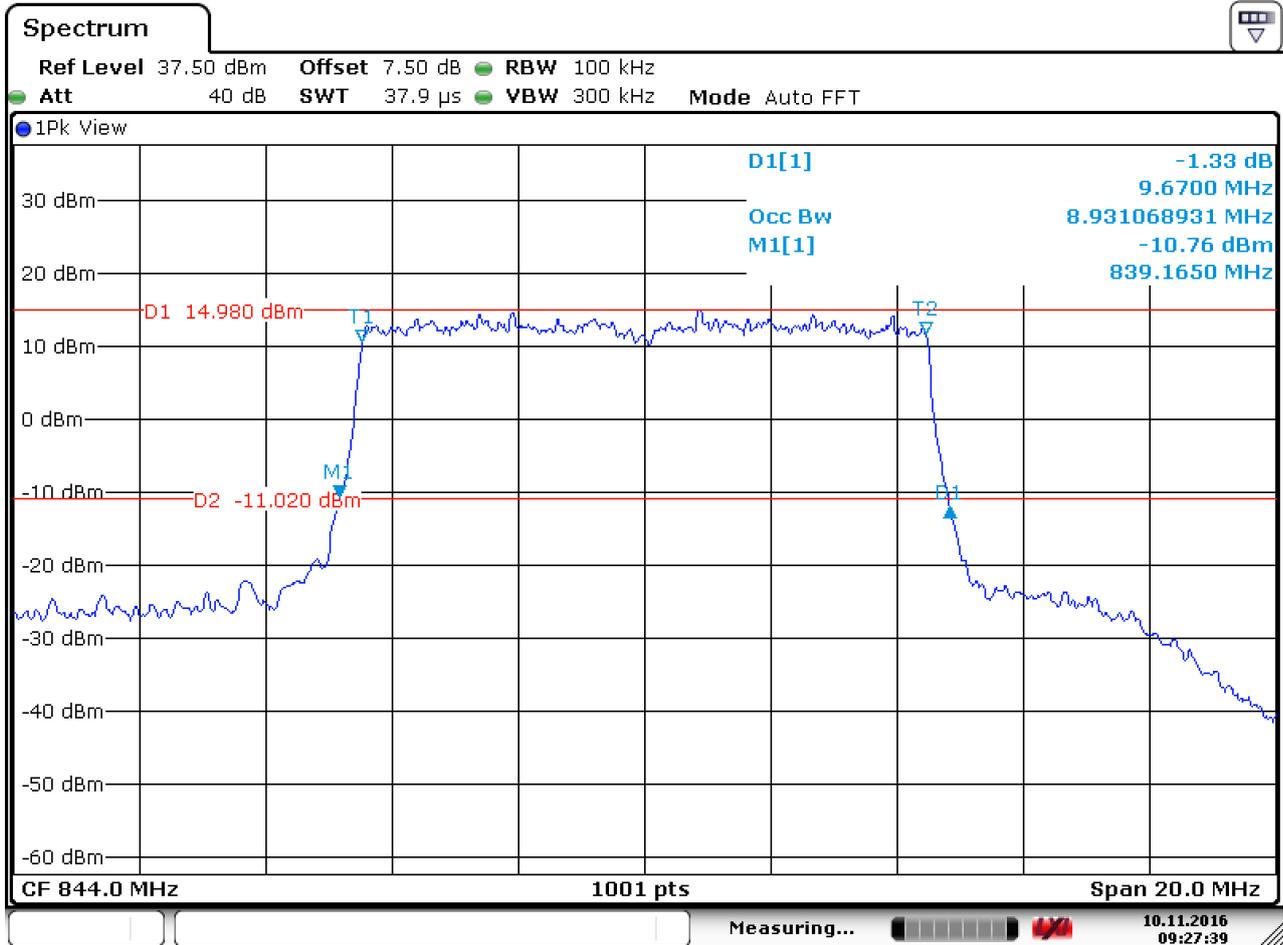


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4.1.1.4.3 Test Channel = HCH



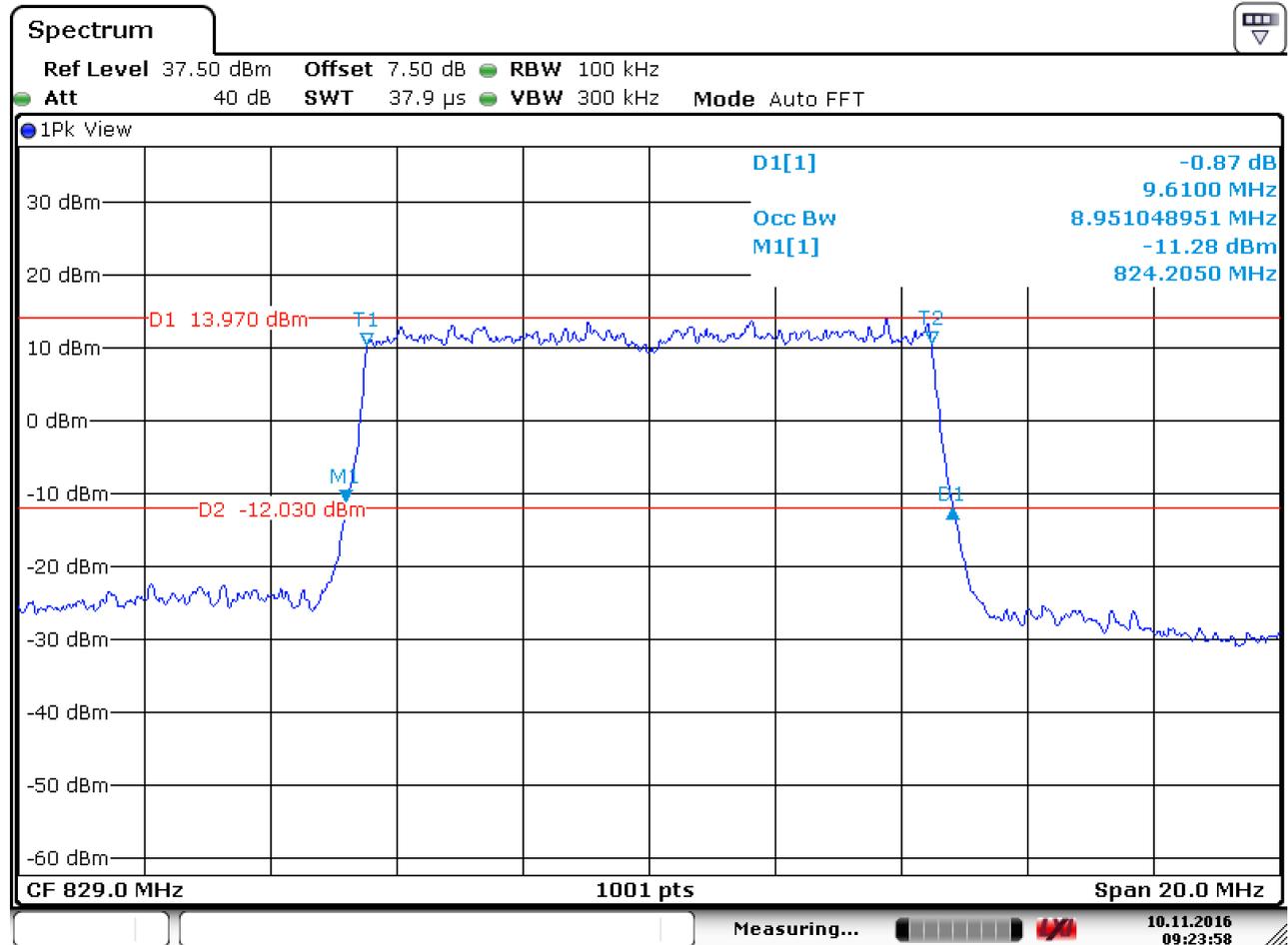
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4.1.1.5 Test Mode = LTE/TM2 10MHz

4.1.1.5.1 Test Channel = LCH

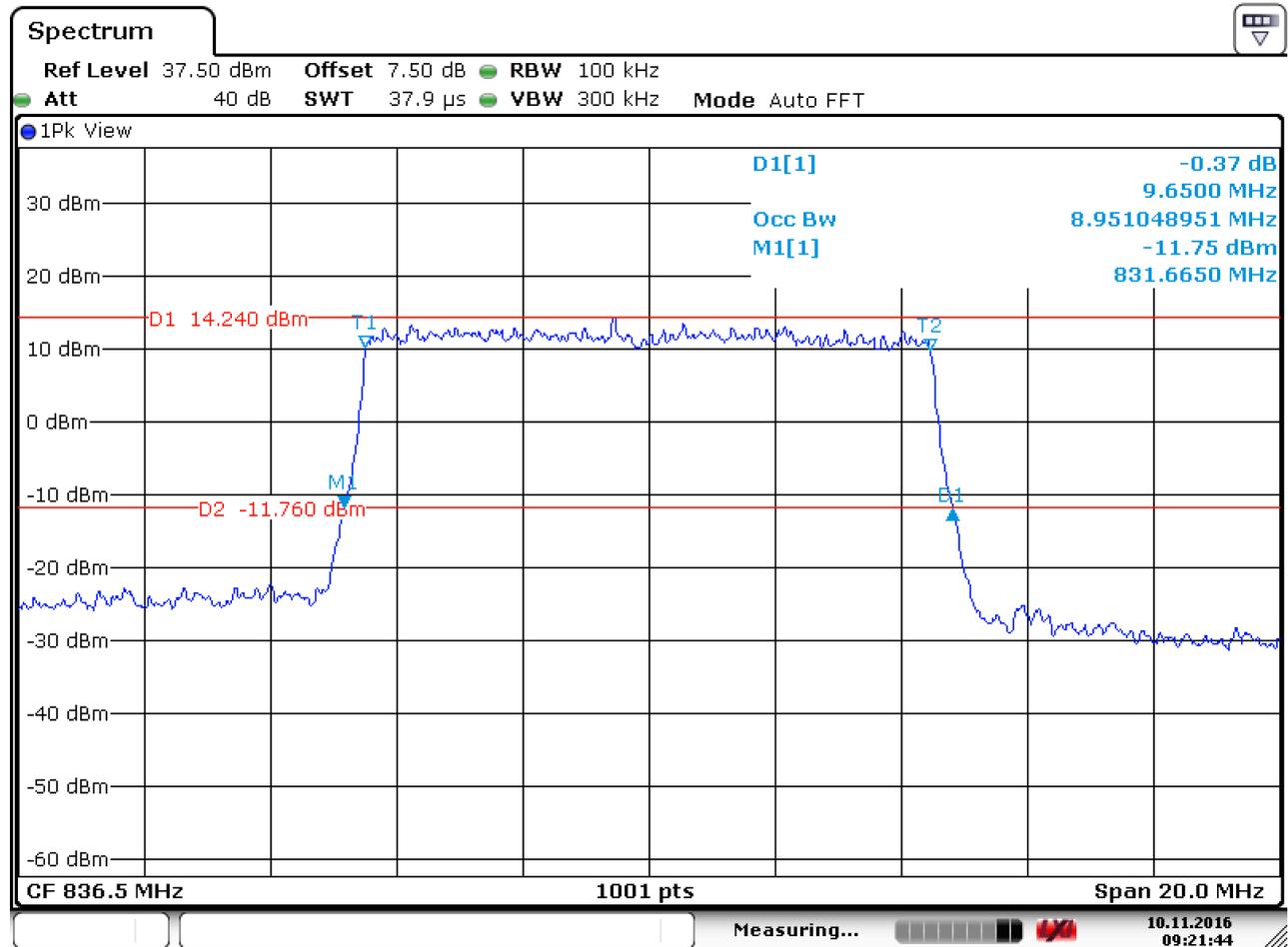


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4.1.1.5.2 Test Channel = MCH

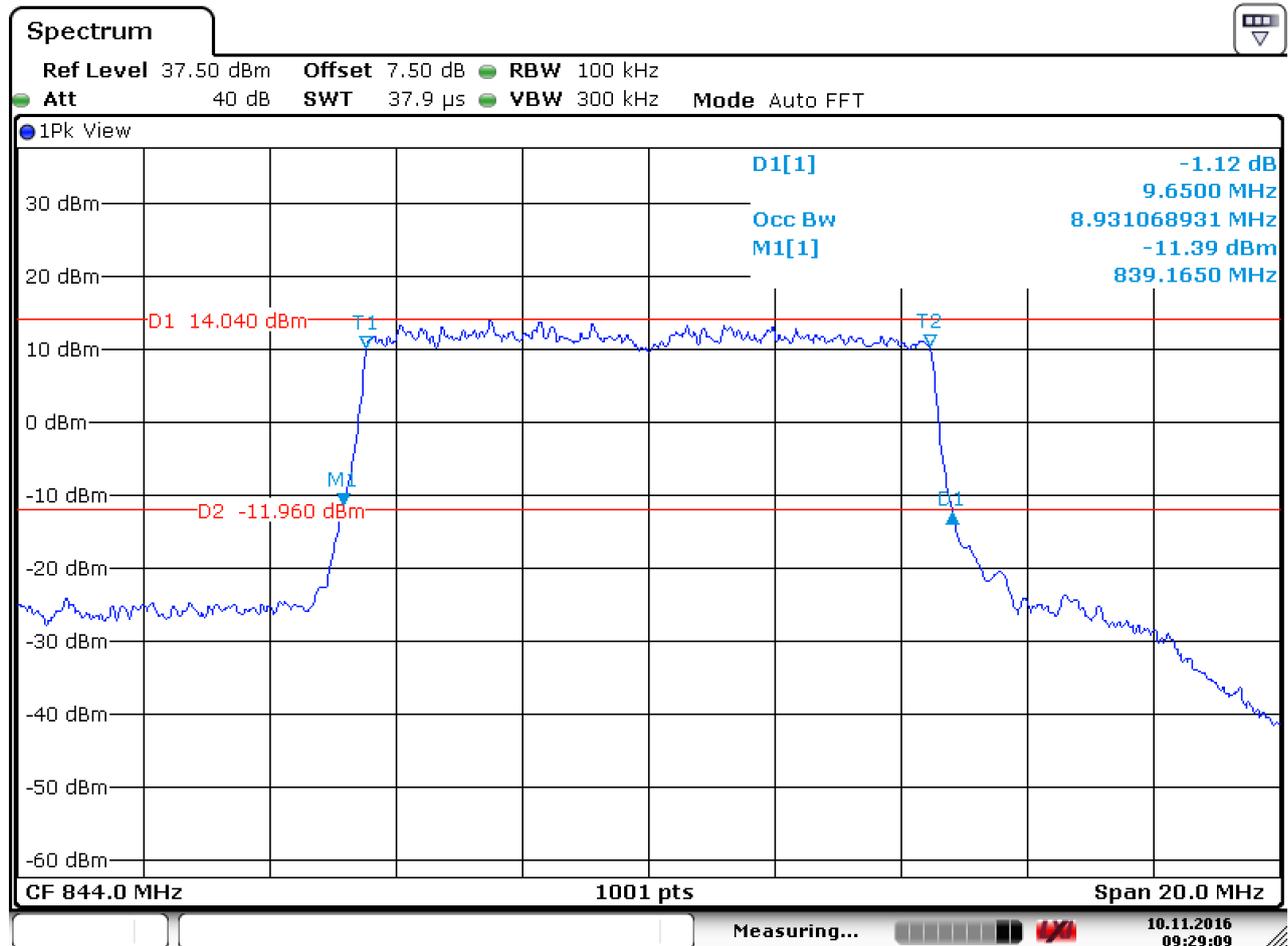


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4.1.1.5.3 Test Channel = HCH



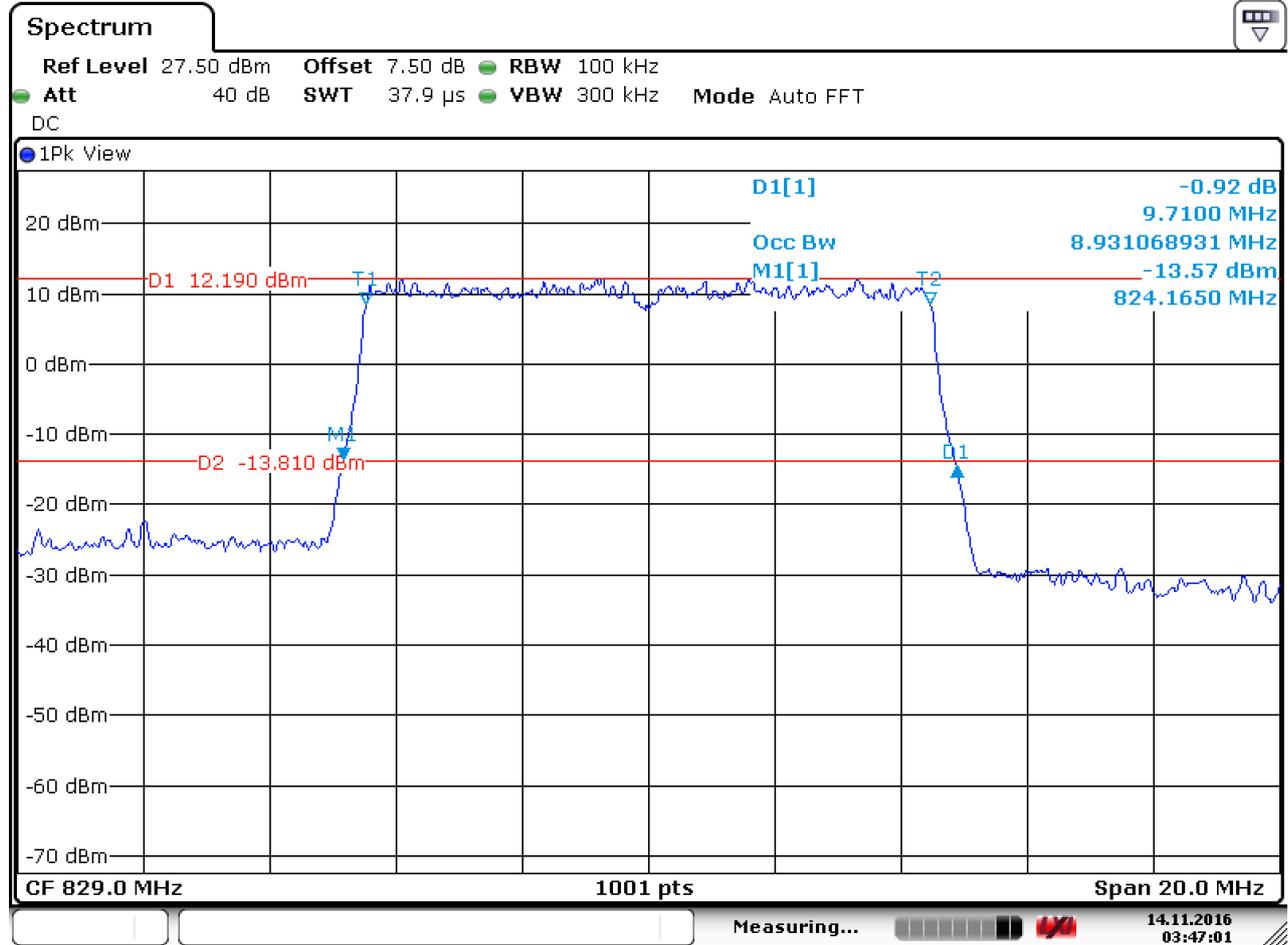
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4.1.1.6 Test Mode = LTE/TM3 10MHz

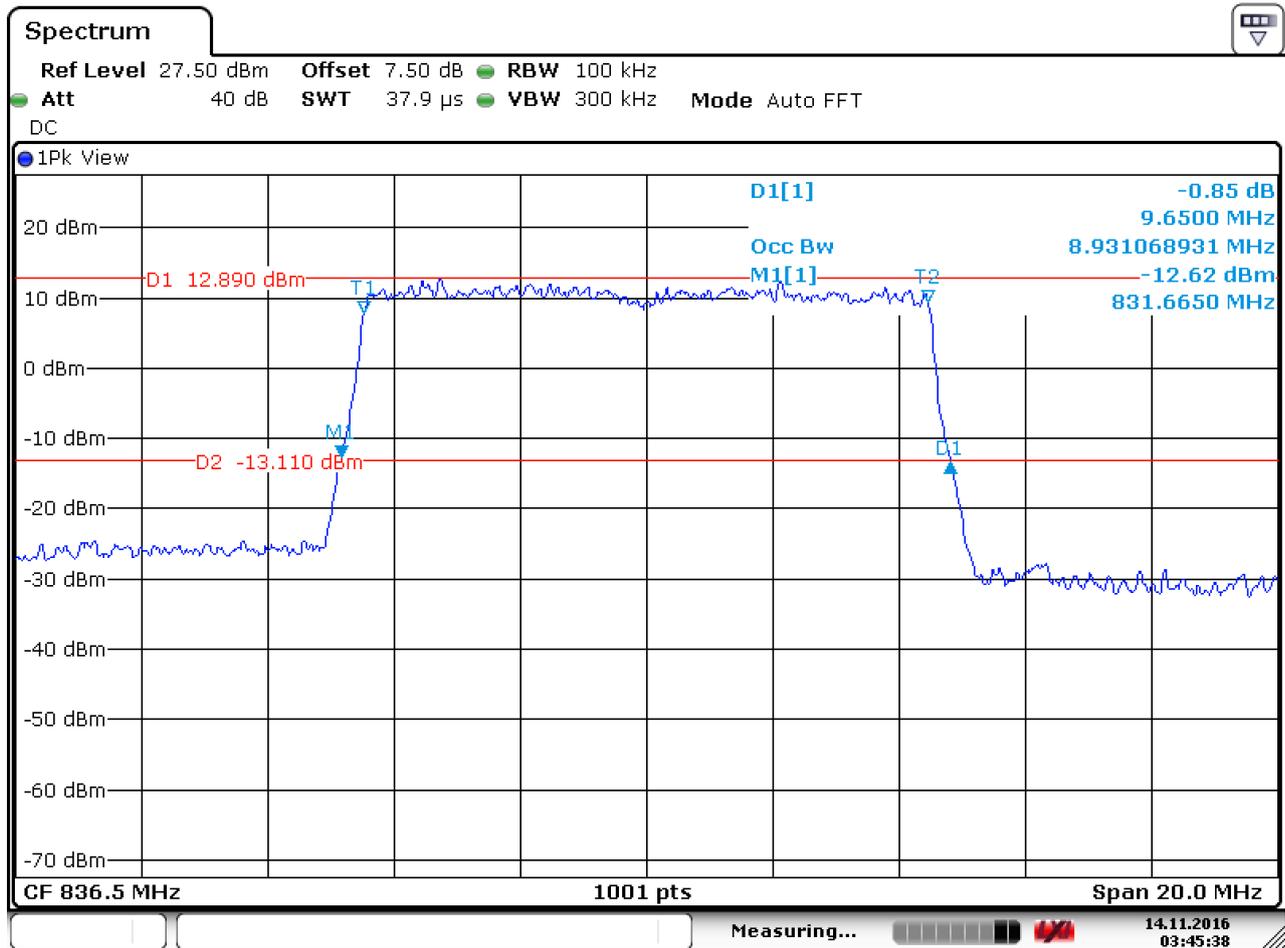
4.1.1.6.1 Test Channel = LCH



Date: 14.NOV.2016 03:47:01



4.1.1.6.2 Test Channel = MCH

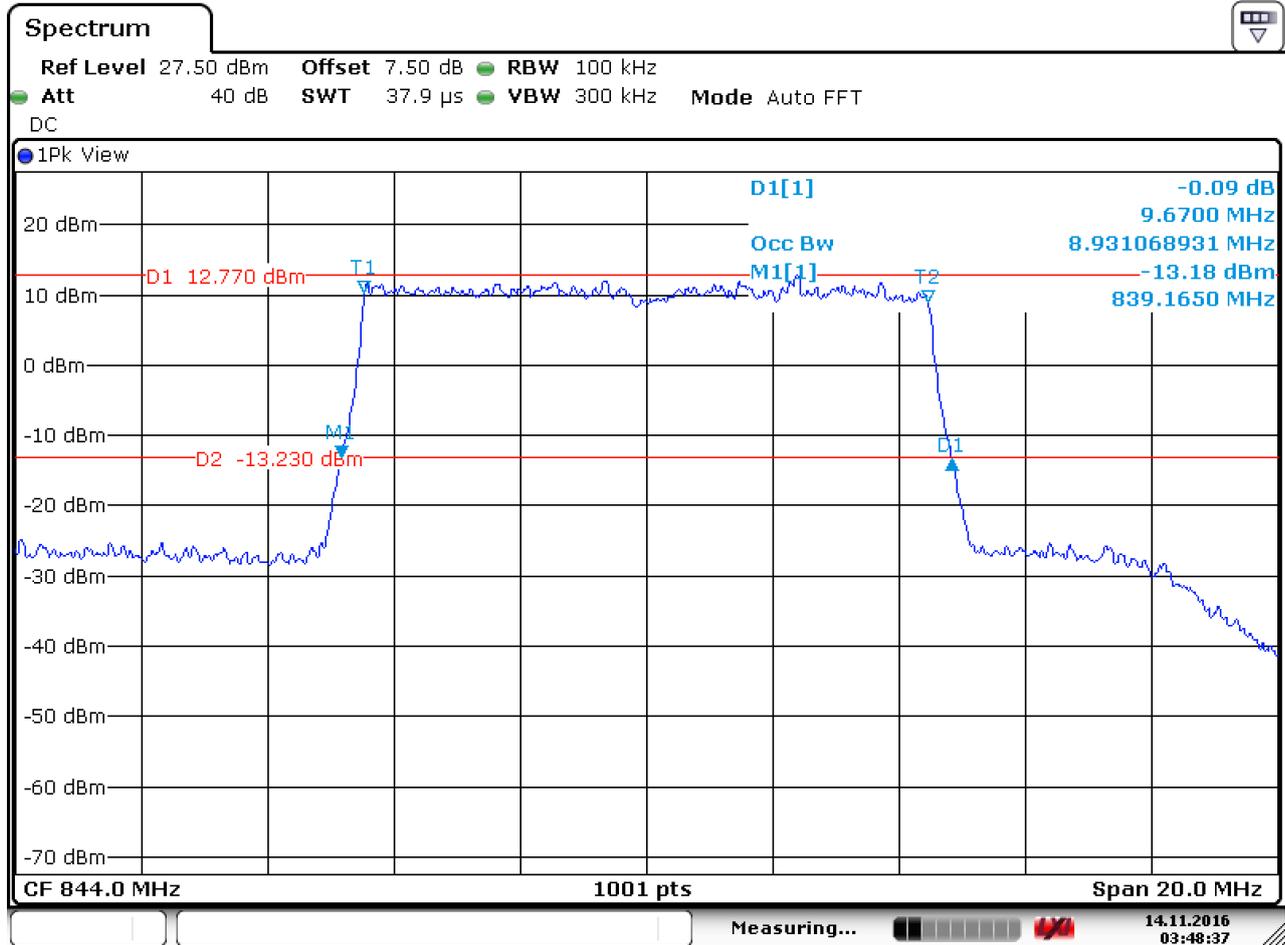


Date: 14.NOV.2016 03:45:39

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4.1.1.6.3 Test Channel = HCH



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5 Band Edges Compliance

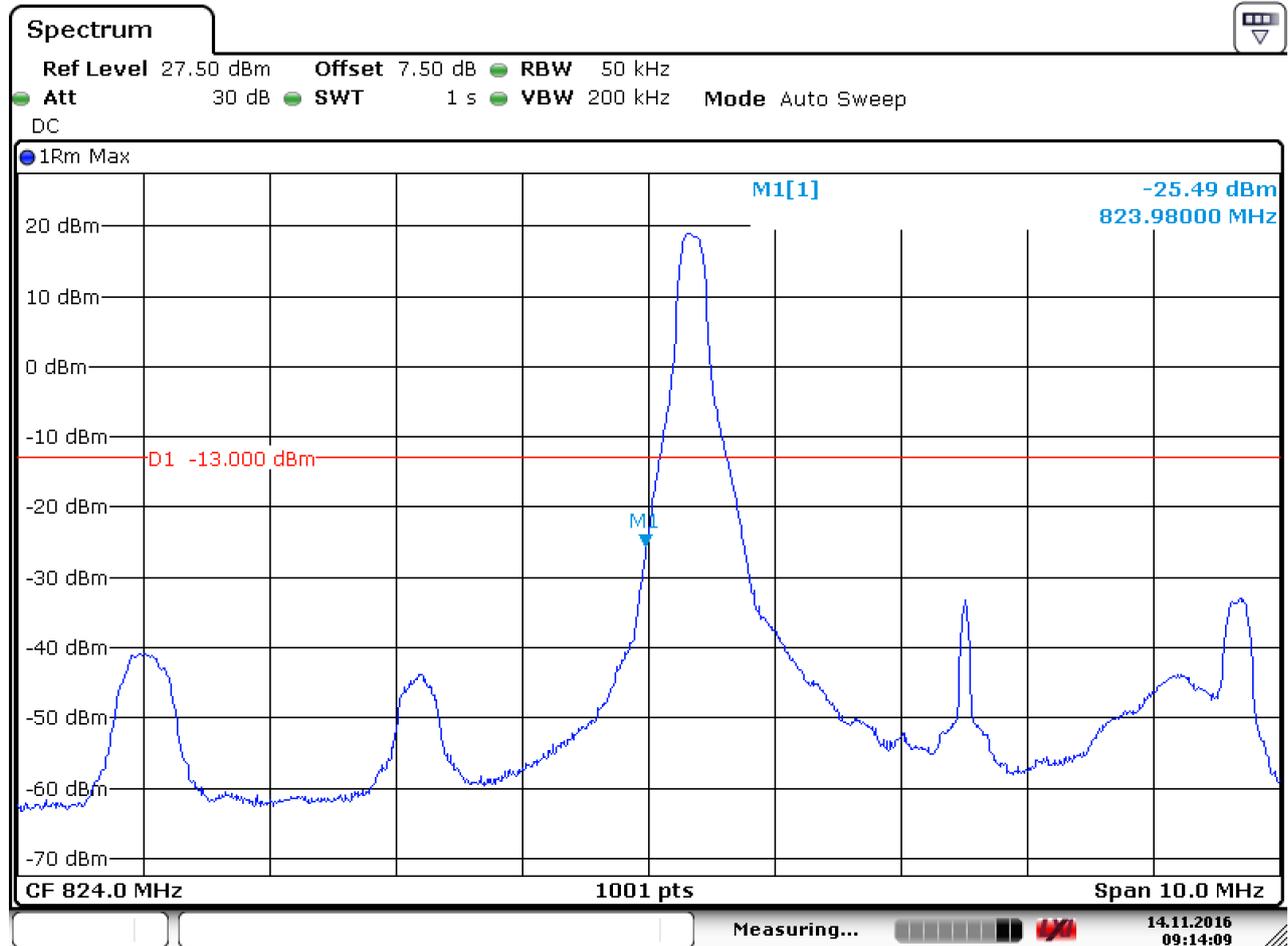
Part I -

5.1.1 Test Band = LTE band5

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

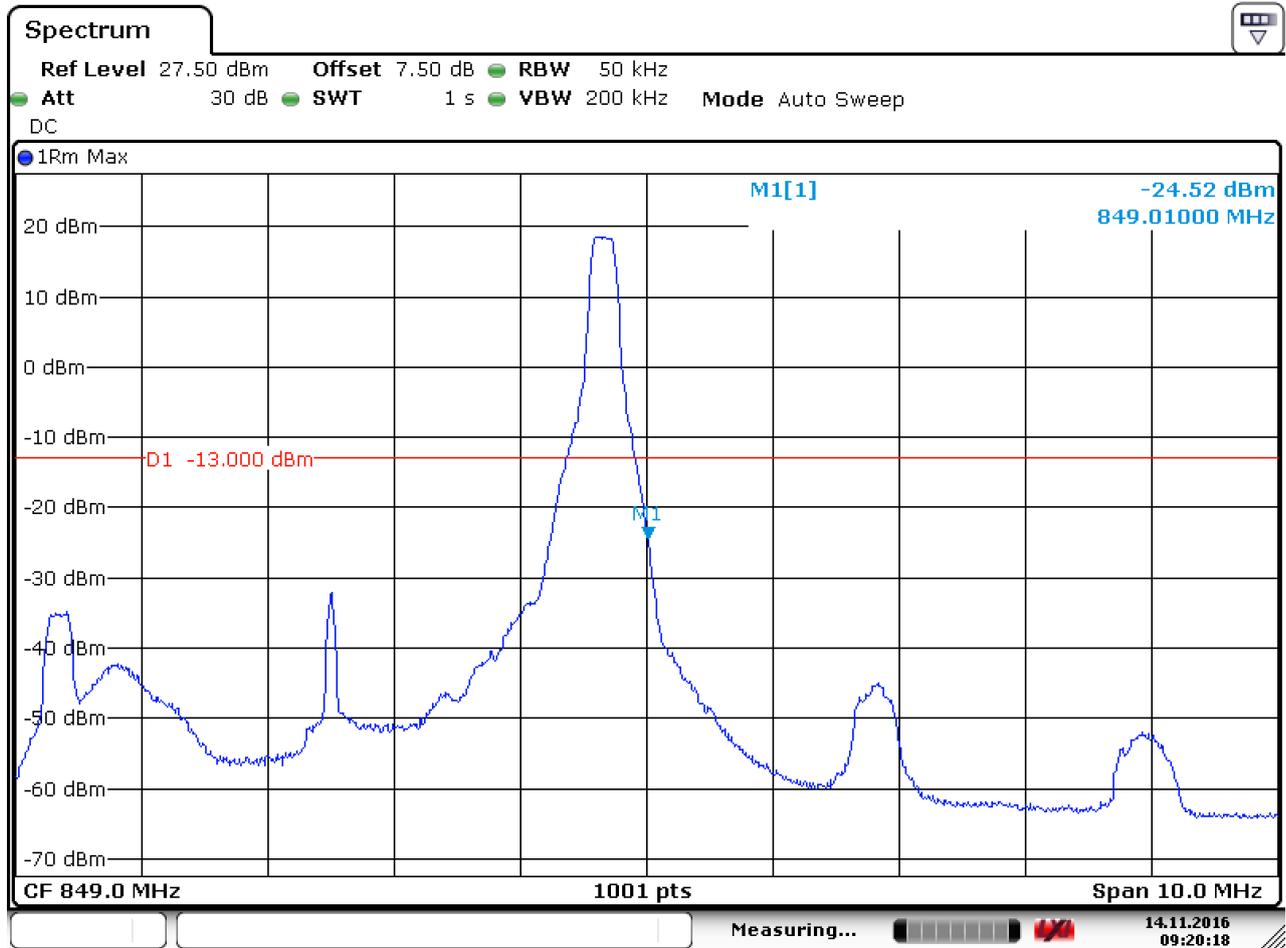


Date: 14.NOV.2016 09:14:10



5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

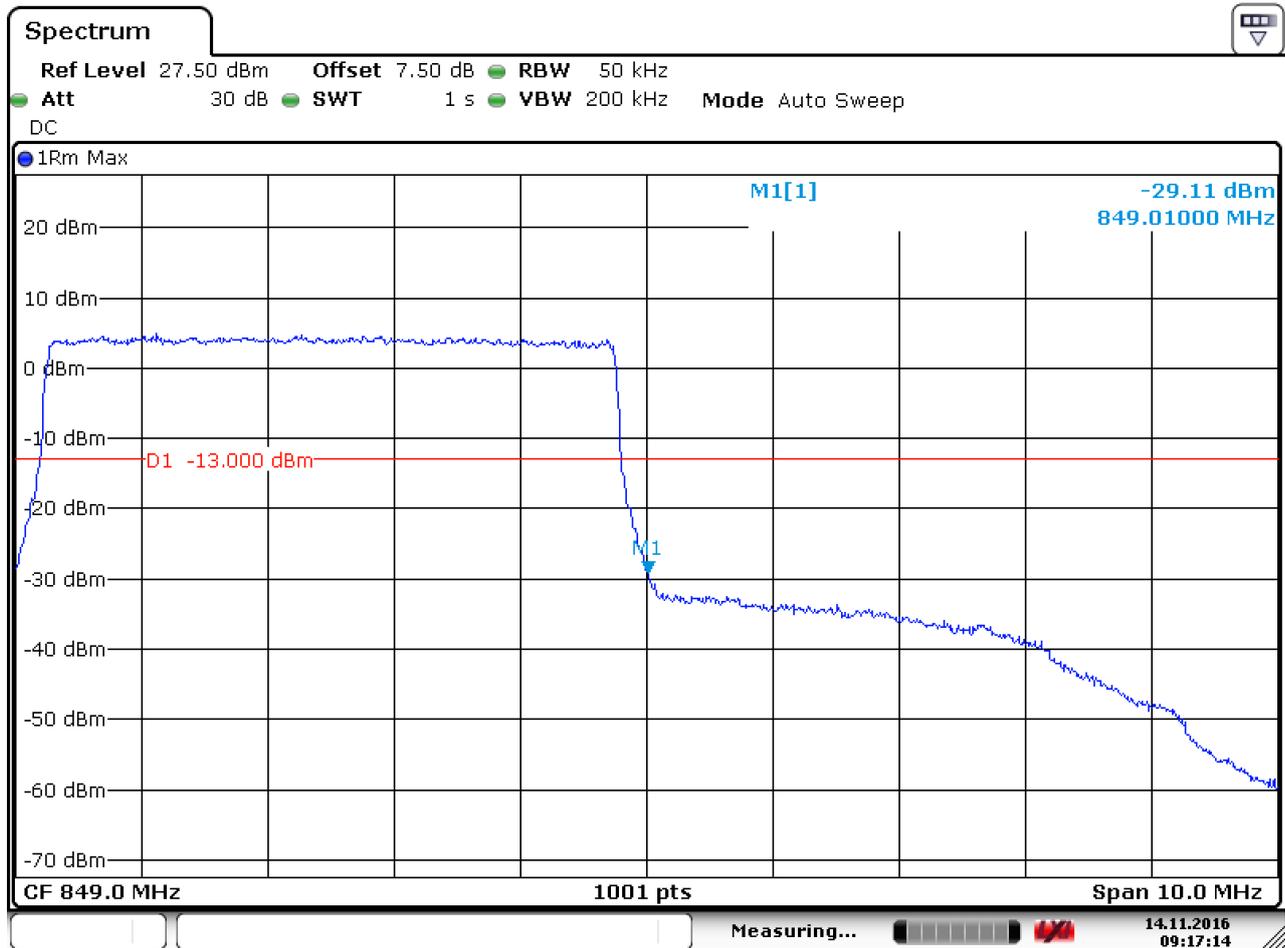


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5.1.1.1.2.2 Test RB=25RB



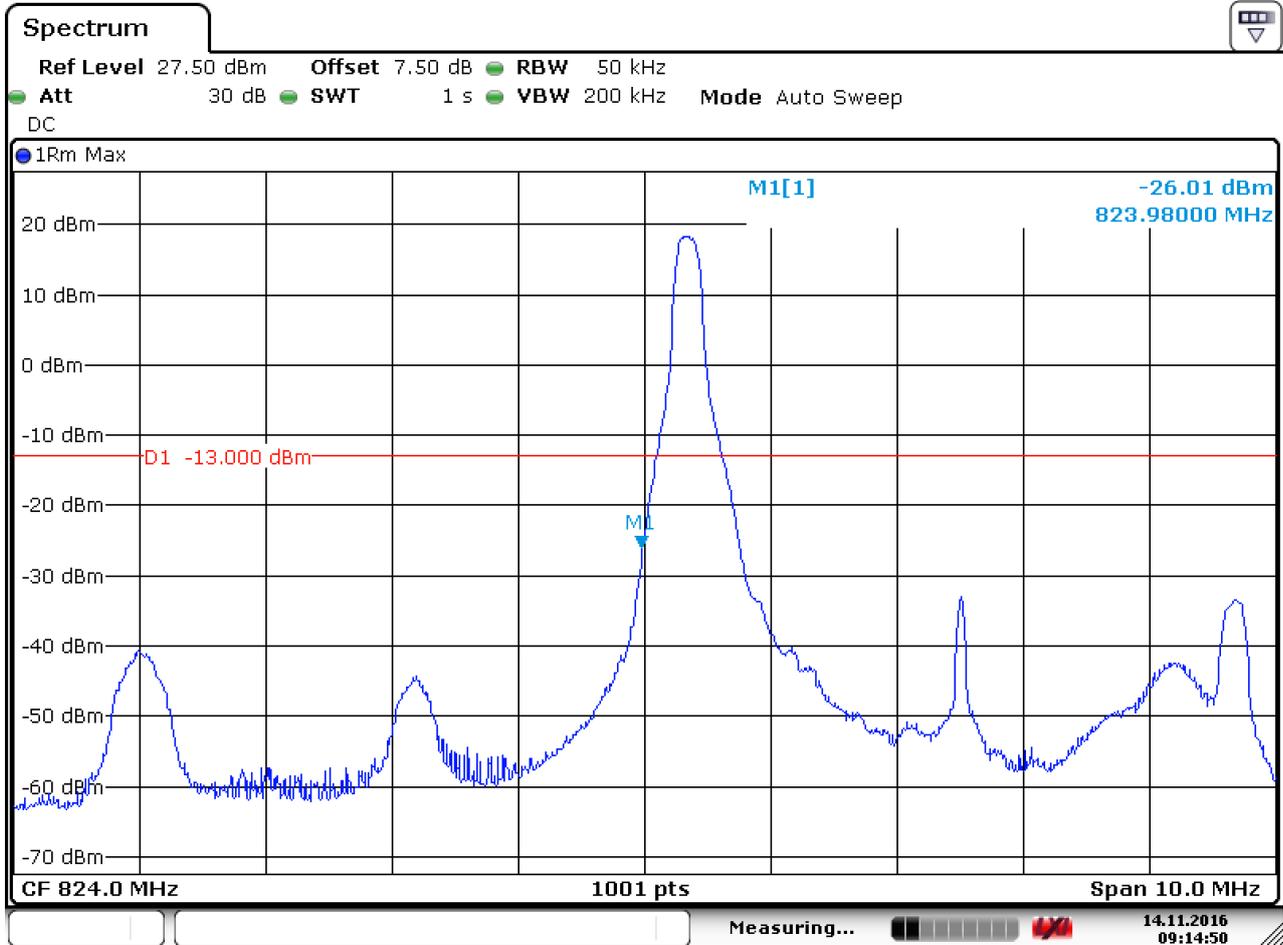
Date: 14.NOV.2016 09:17:15

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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

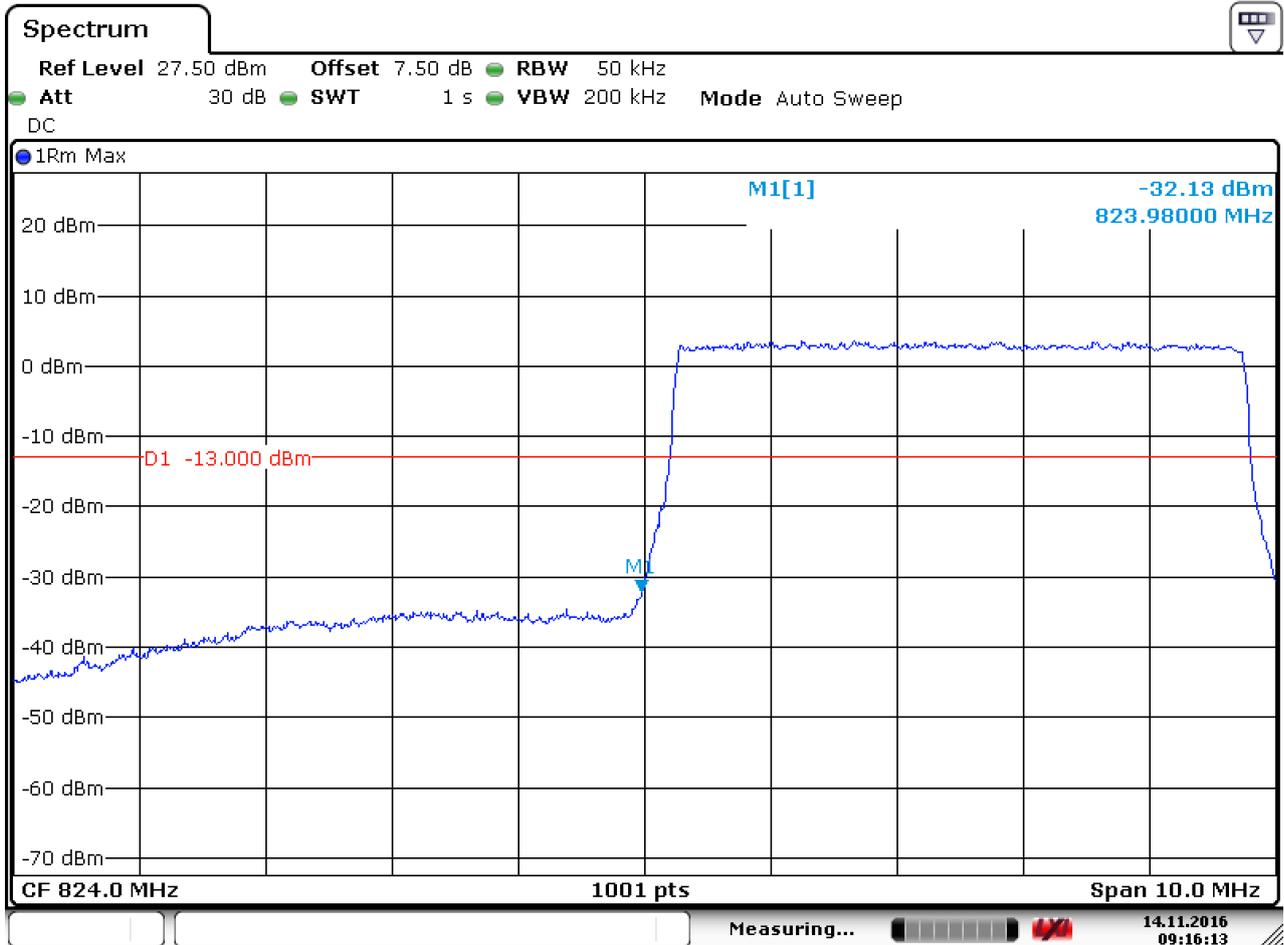
5.1.1.2.1.1 Test RB=1RB



Date: 14.NOV.2016 09:14:51



5.1.1.2.1.2 Test RB=25RB



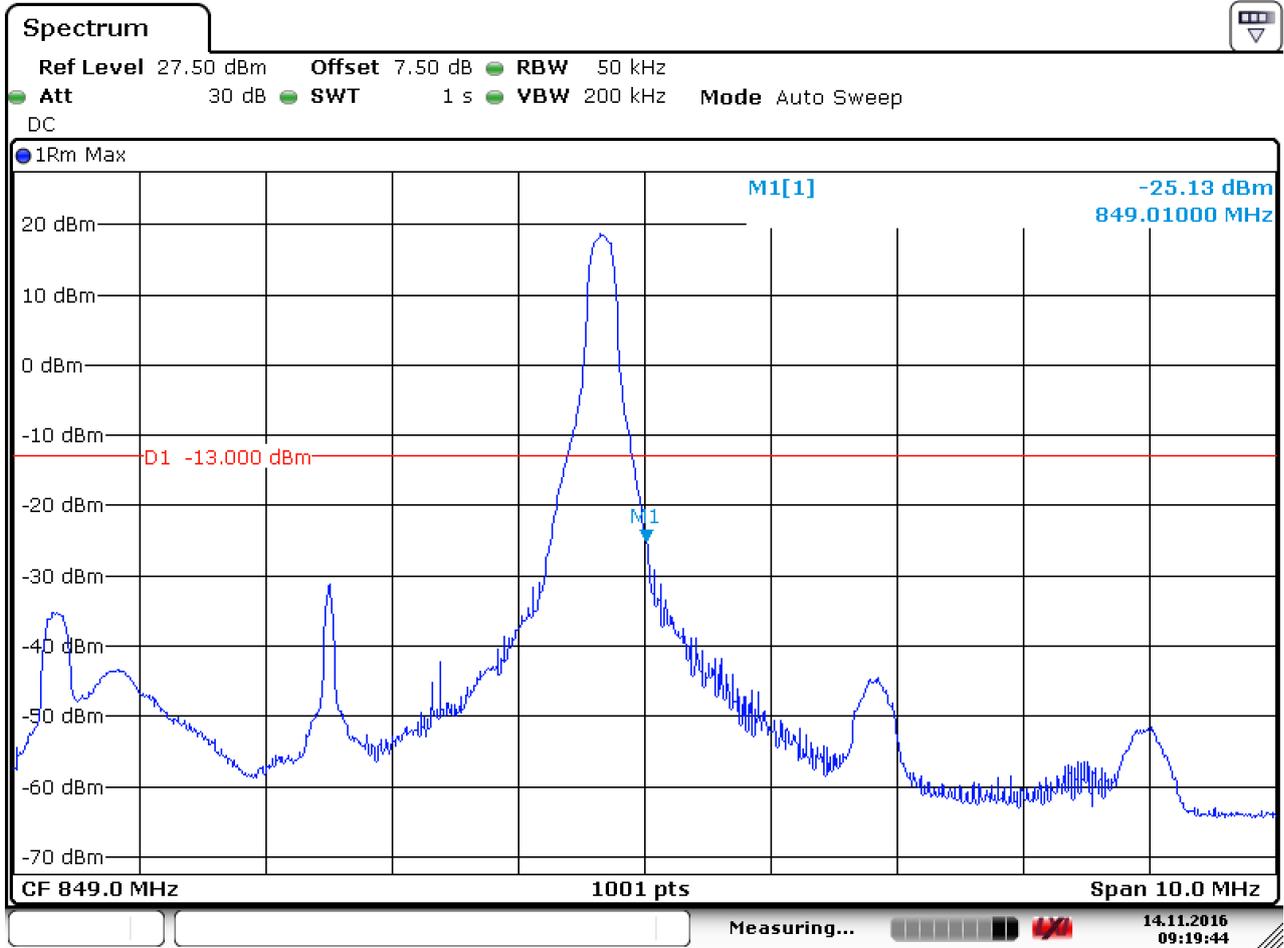
Date: 14.NOV.2016 09:16:14

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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

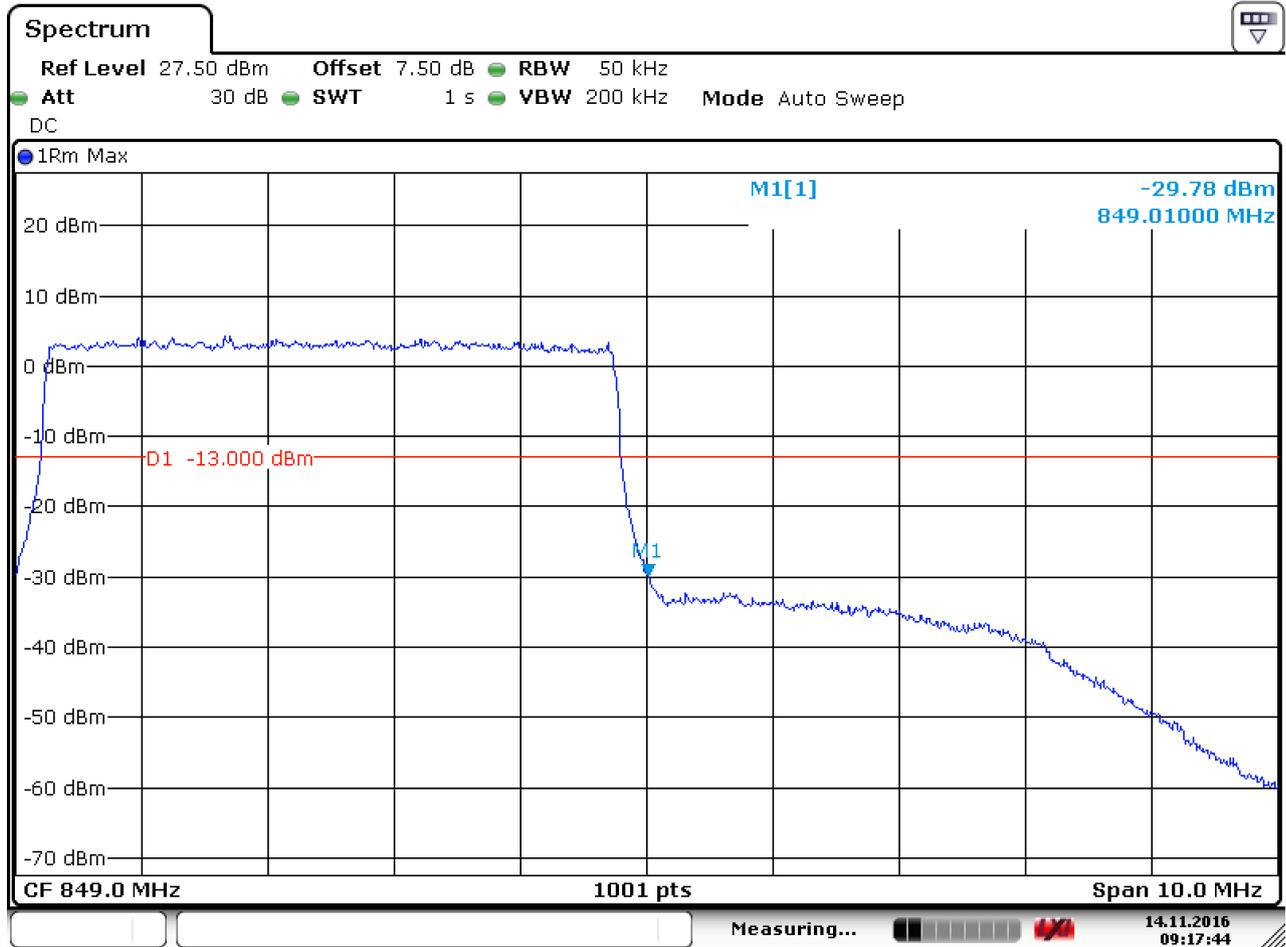


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5.1.1.2.2.2 Test RB=25RB



Date: 14.NOV.2016 09:17:44

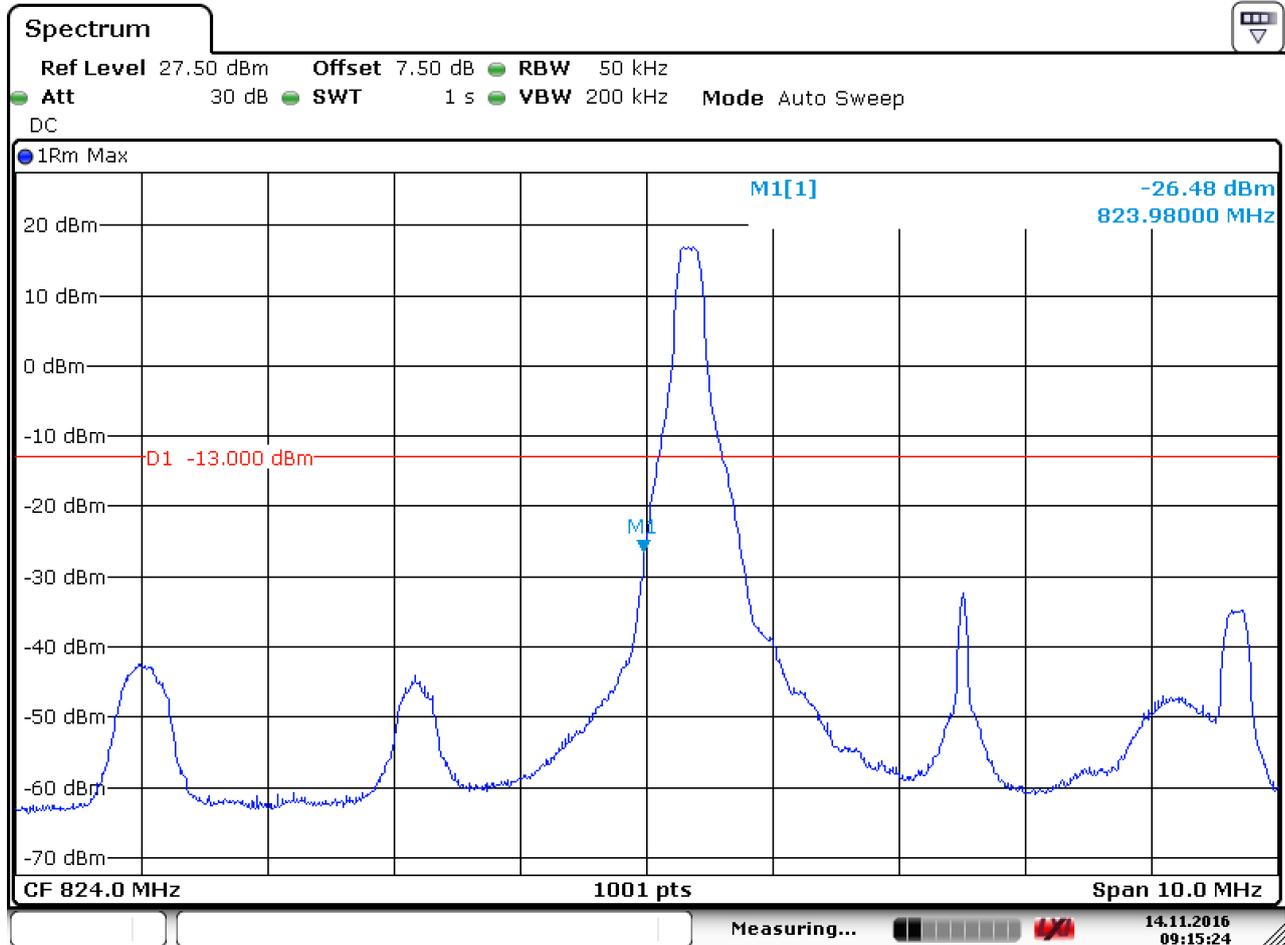
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5.1.1.3 Test Mode = LTE/TM3 5MHz

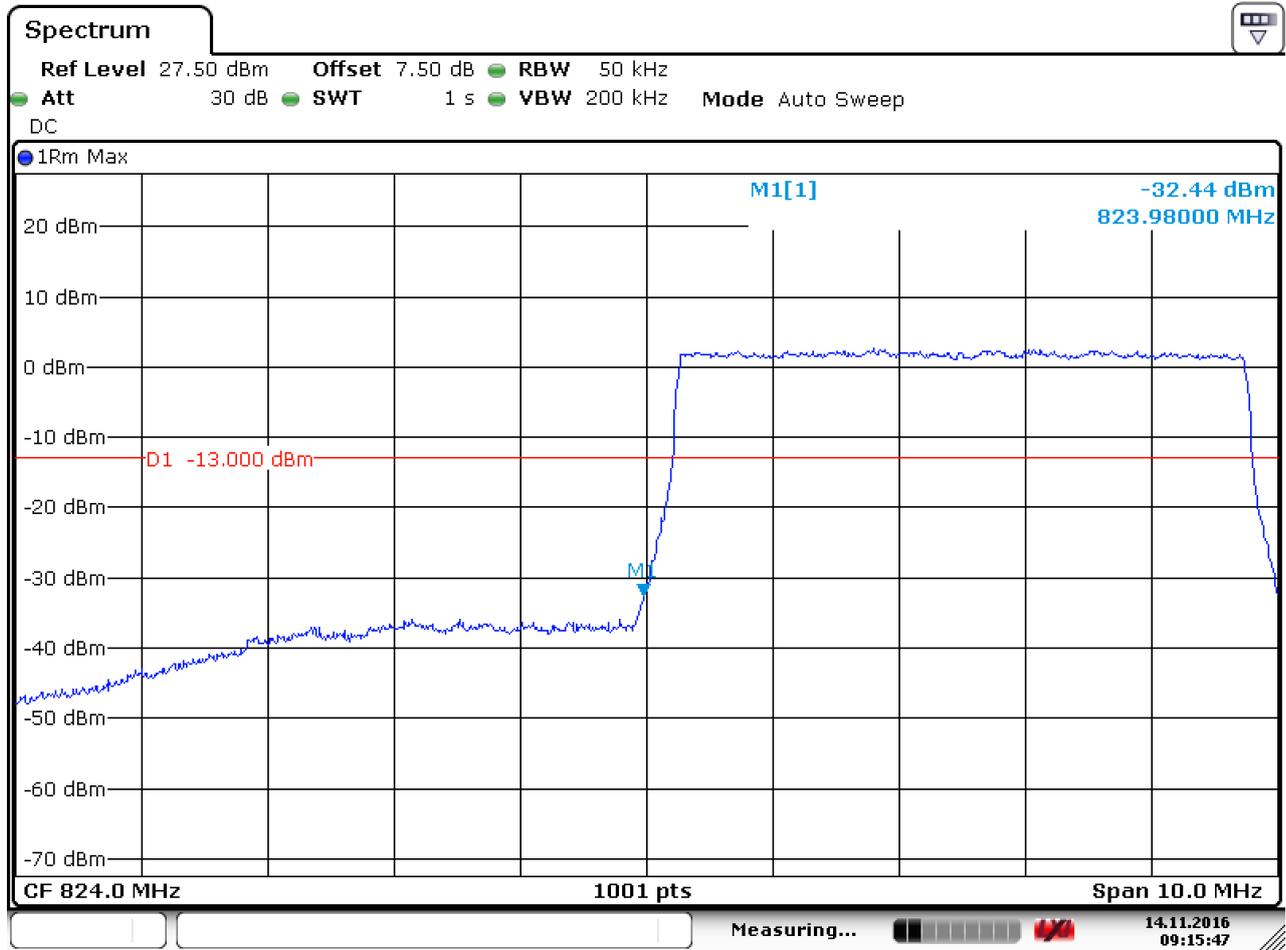
5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 14.NOV.2016 09:15:24

5.1.1.3.1.2 Test RB=25RB

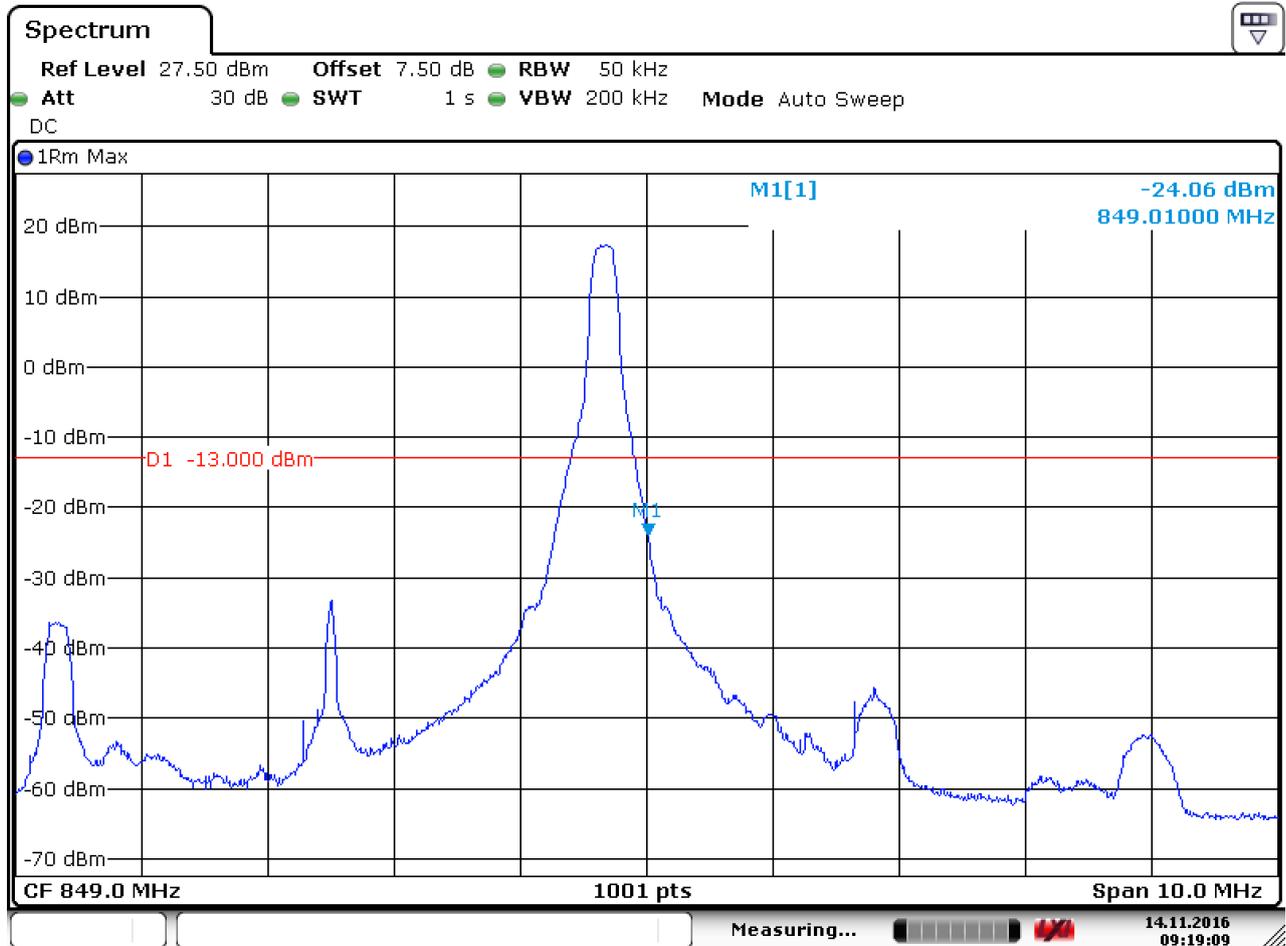


Date: 14.NOV.2016 09:15:48



5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

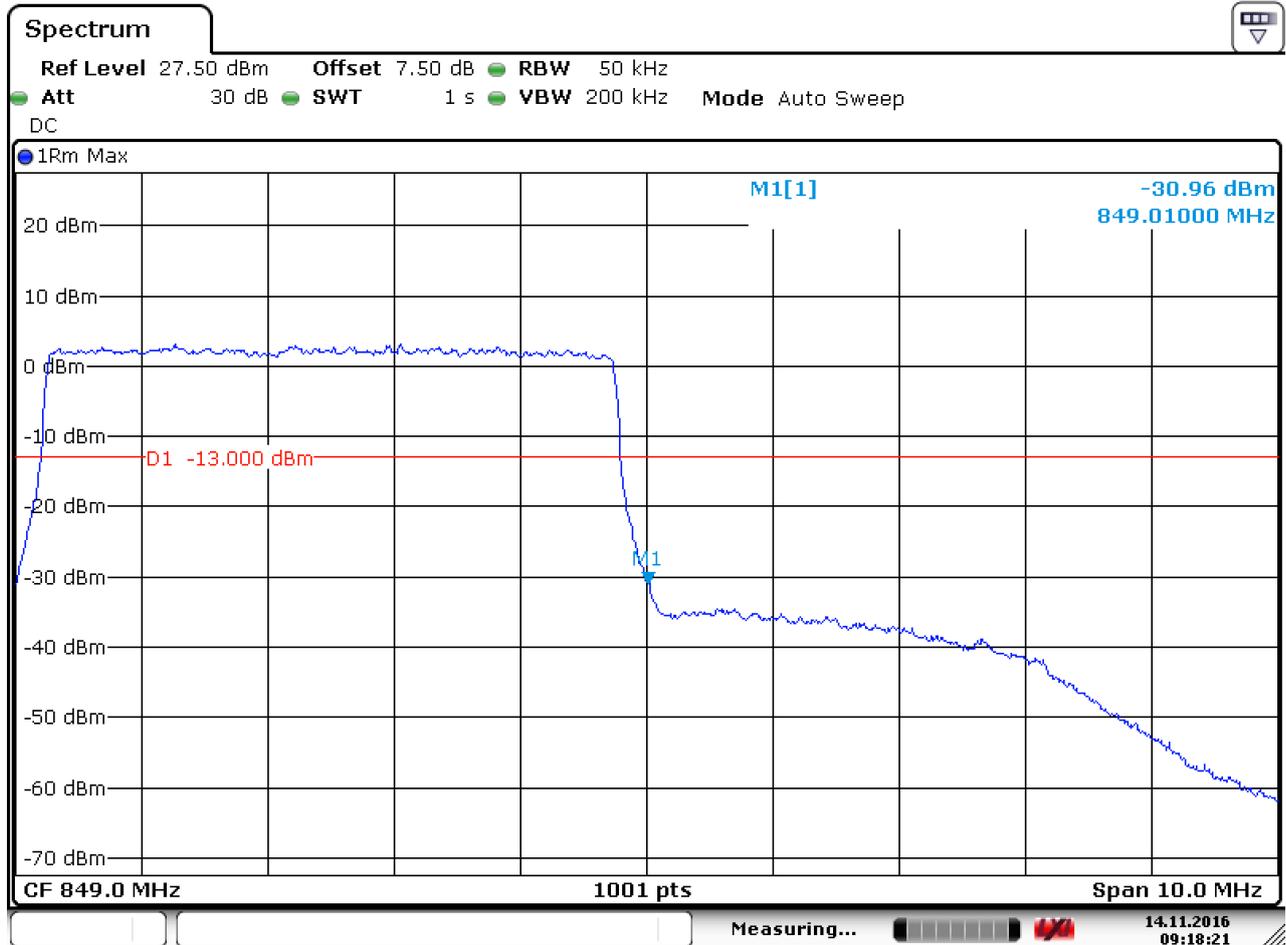


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5.1.1.3.2.2 Test RB=25RB



Date: 14.NOV.2016 09:18:21

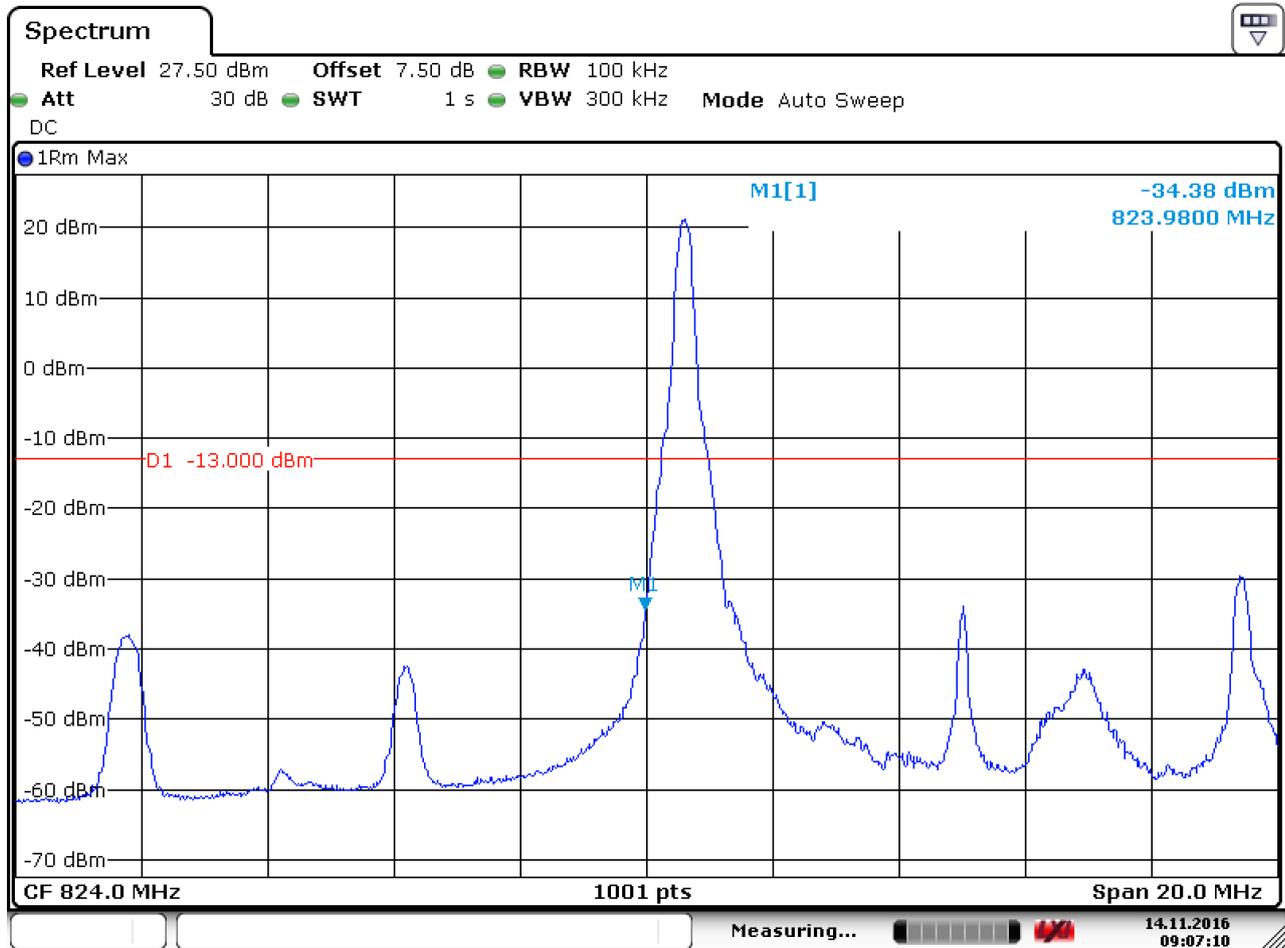
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5.1.1.4 Test Mode = LTE/TM1 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

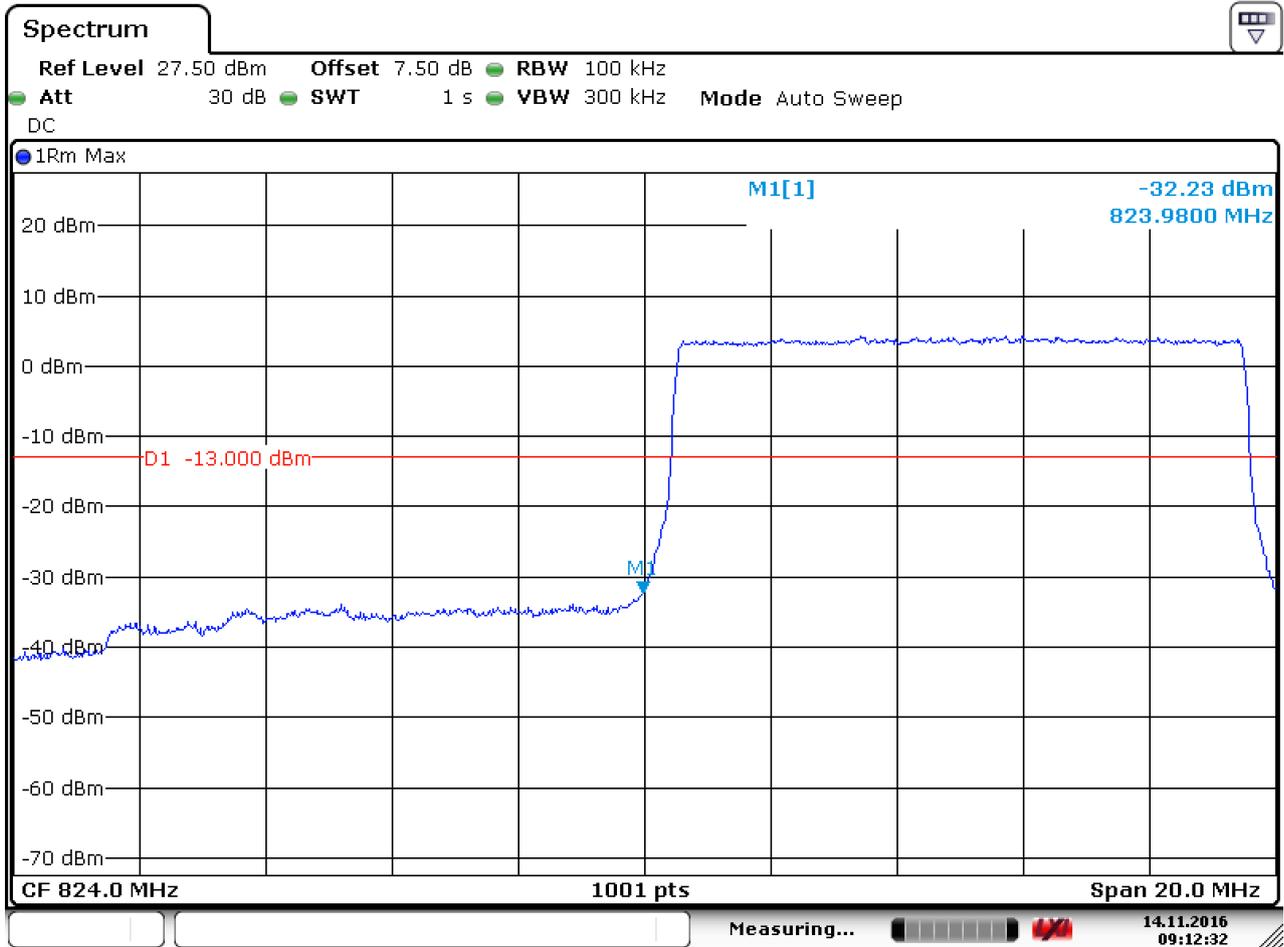


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5.1.1.4.1.2 Test RB=50RB

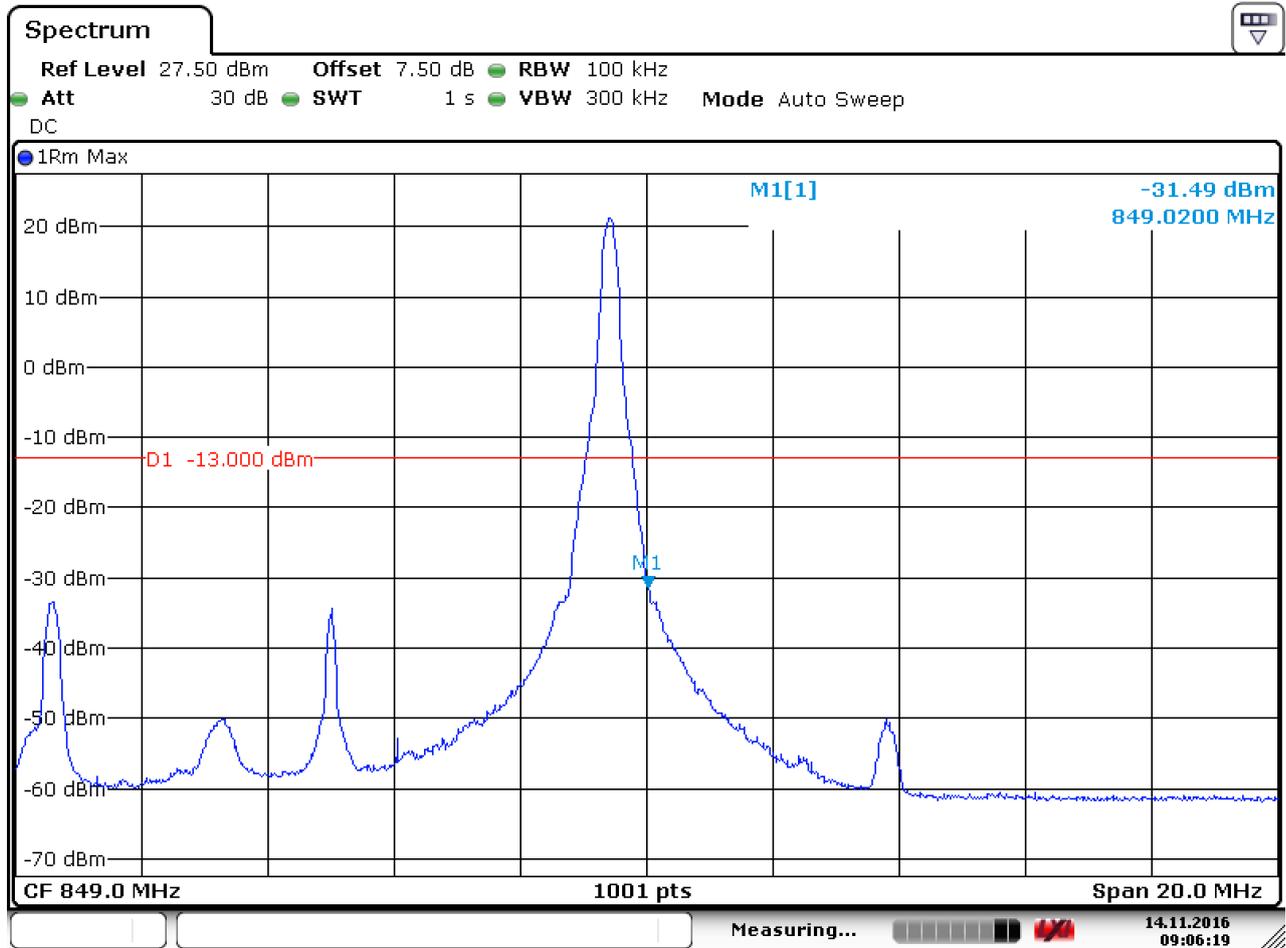


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5.1.1.4.2 Test Channel = HCH

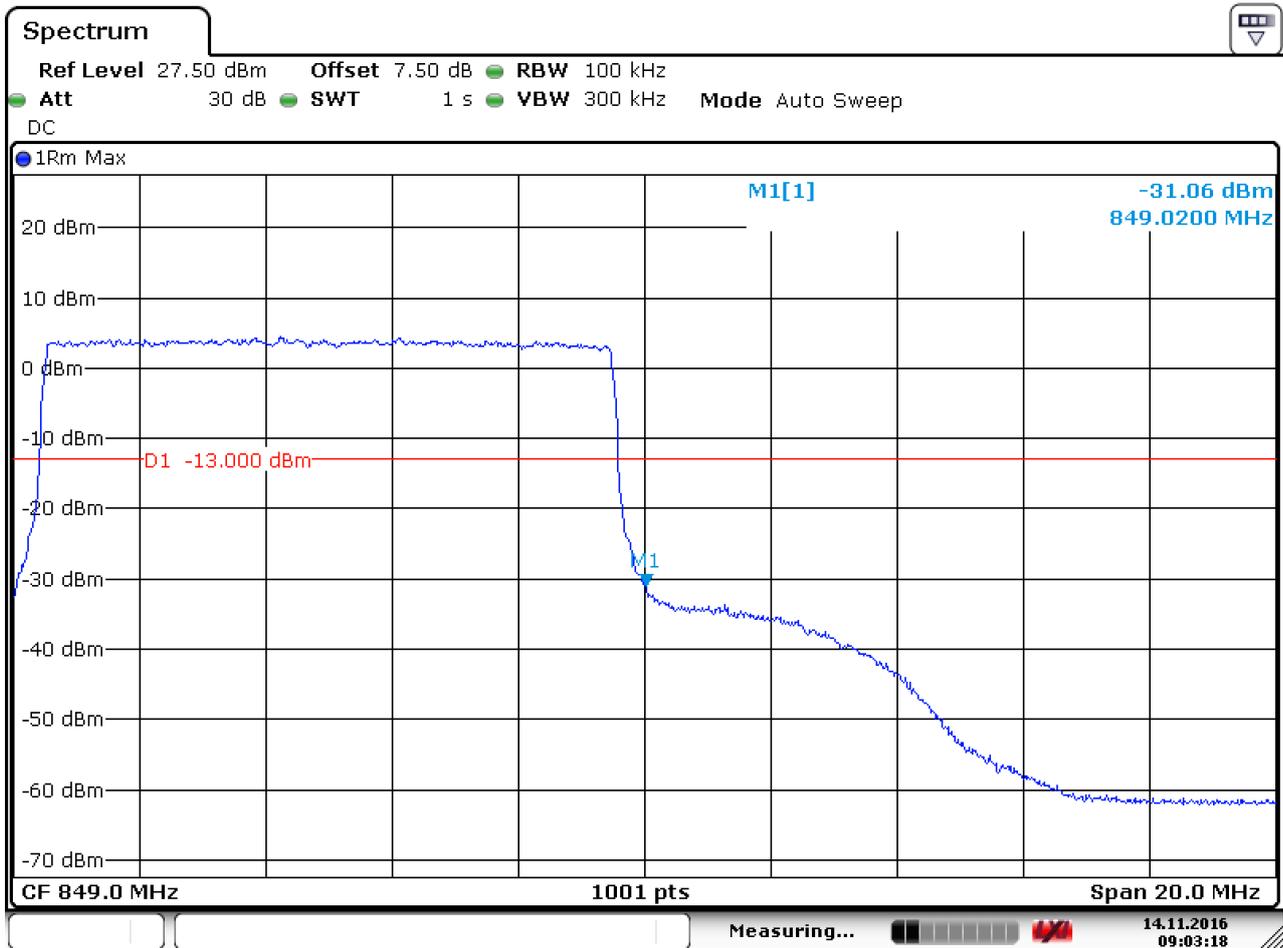
5.1.1.4.2.1 Test RB=1RB



Date: 14.NOV.2016 09:06:20



5.1.1.4.2.2 Test RB=50RB



Date: 14.NOV.2016 09:03:18

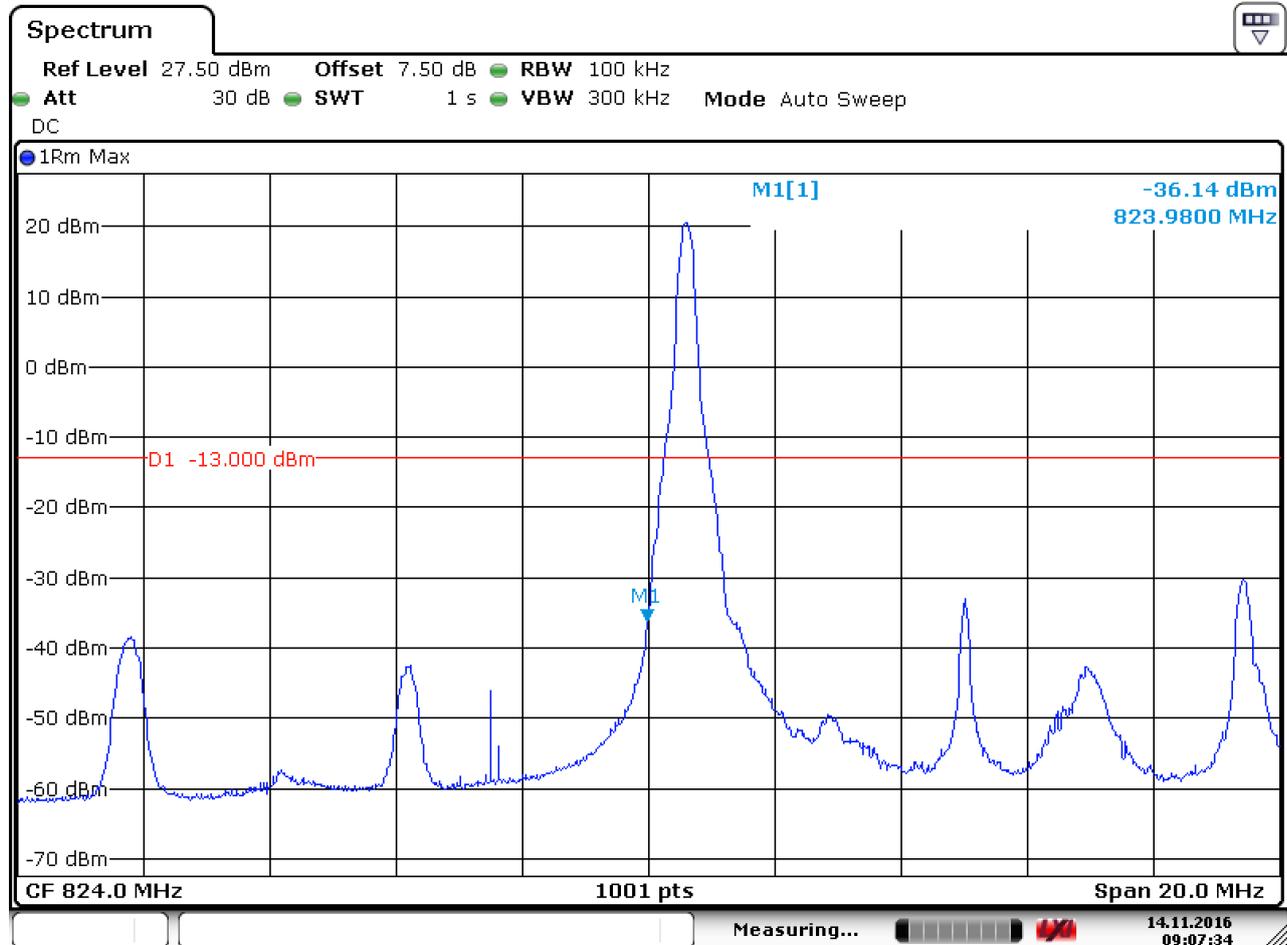
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5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

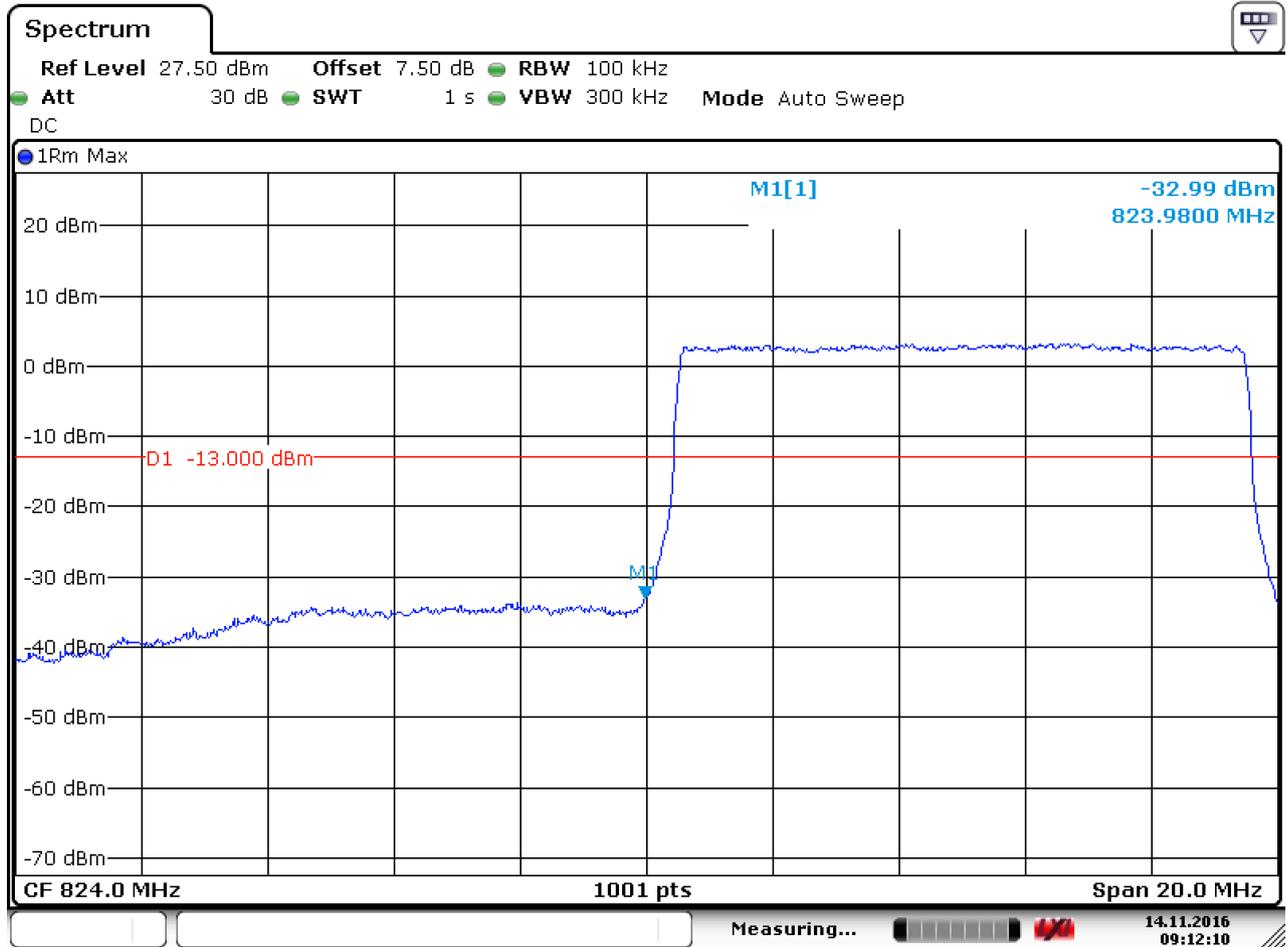


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5.1.1.5.1.2 Test RB=50RB

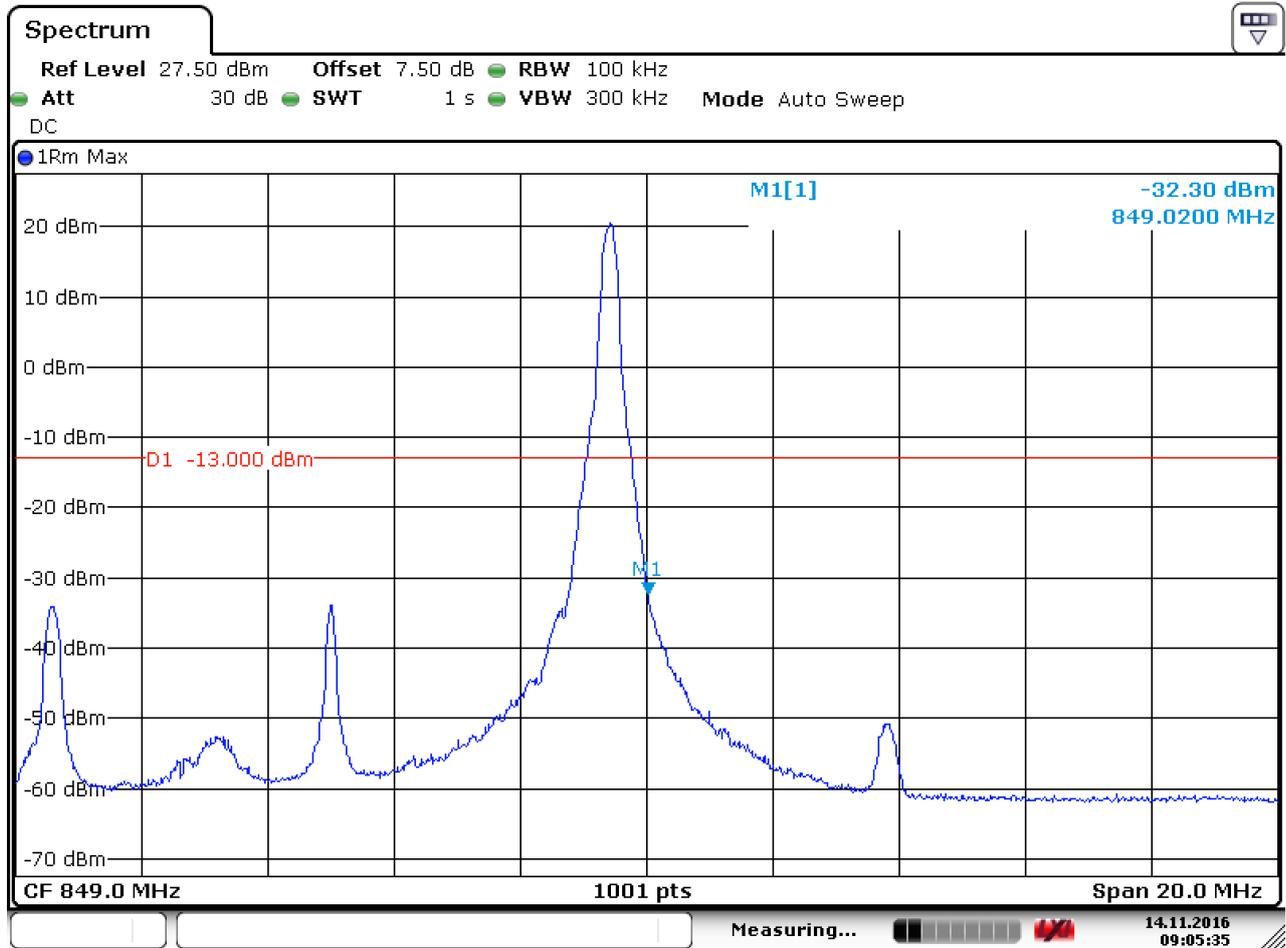


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



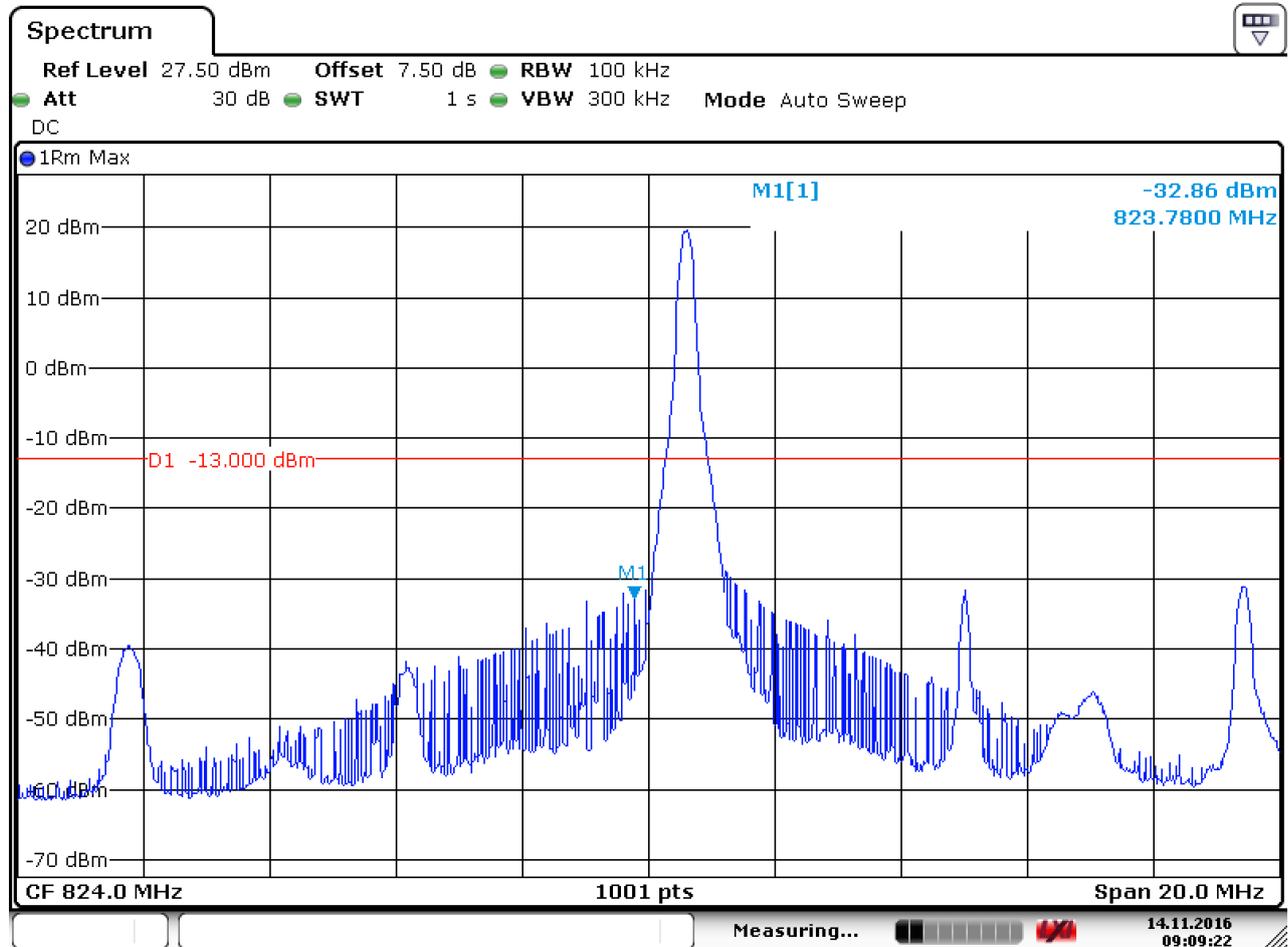
Date: 14.NOV.2016 09:05:35



5.1.1.6 Test Mode = LTE/TM3 10MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

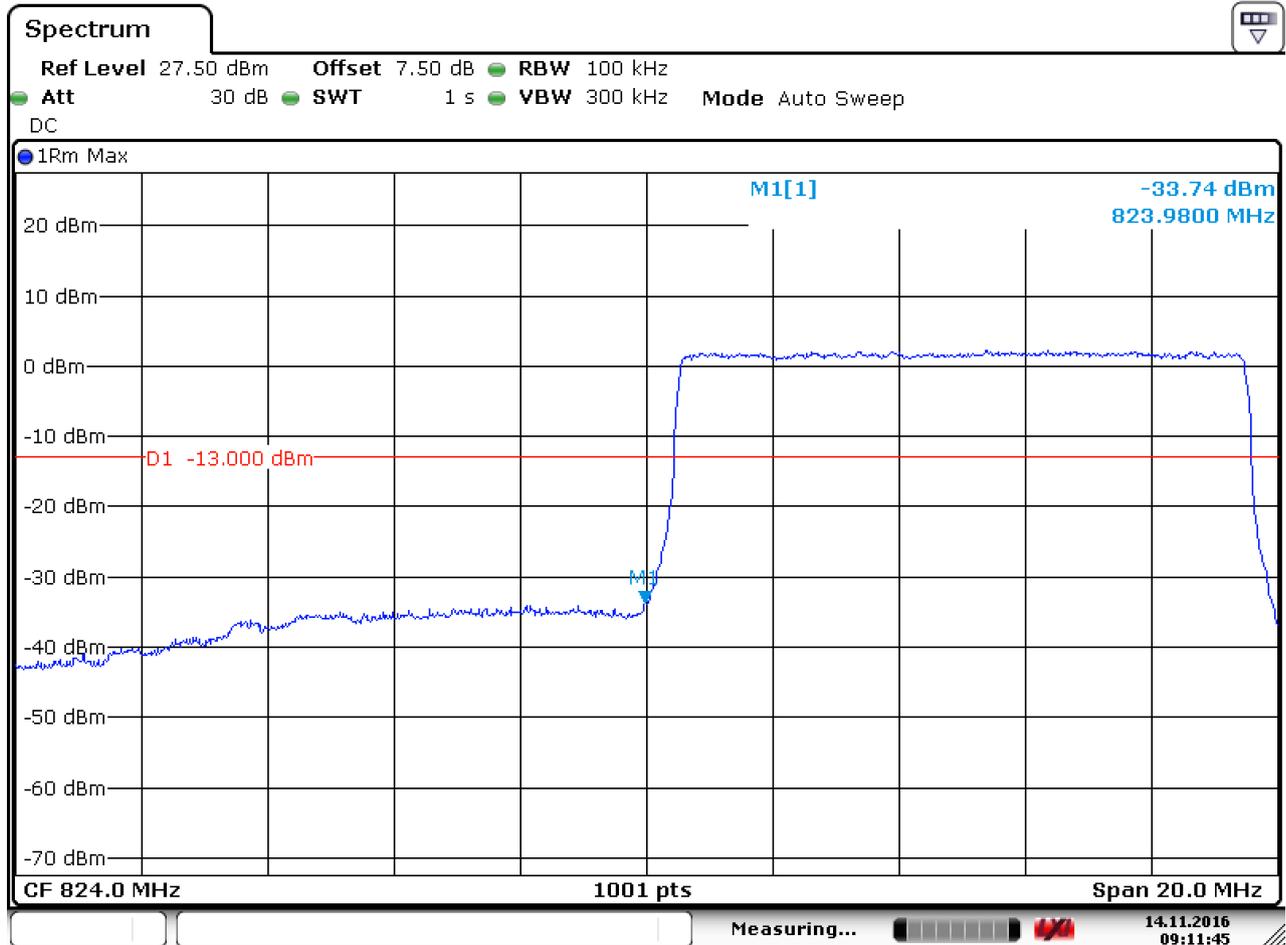


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5.1.1.6.1.2 Test RB=50RB

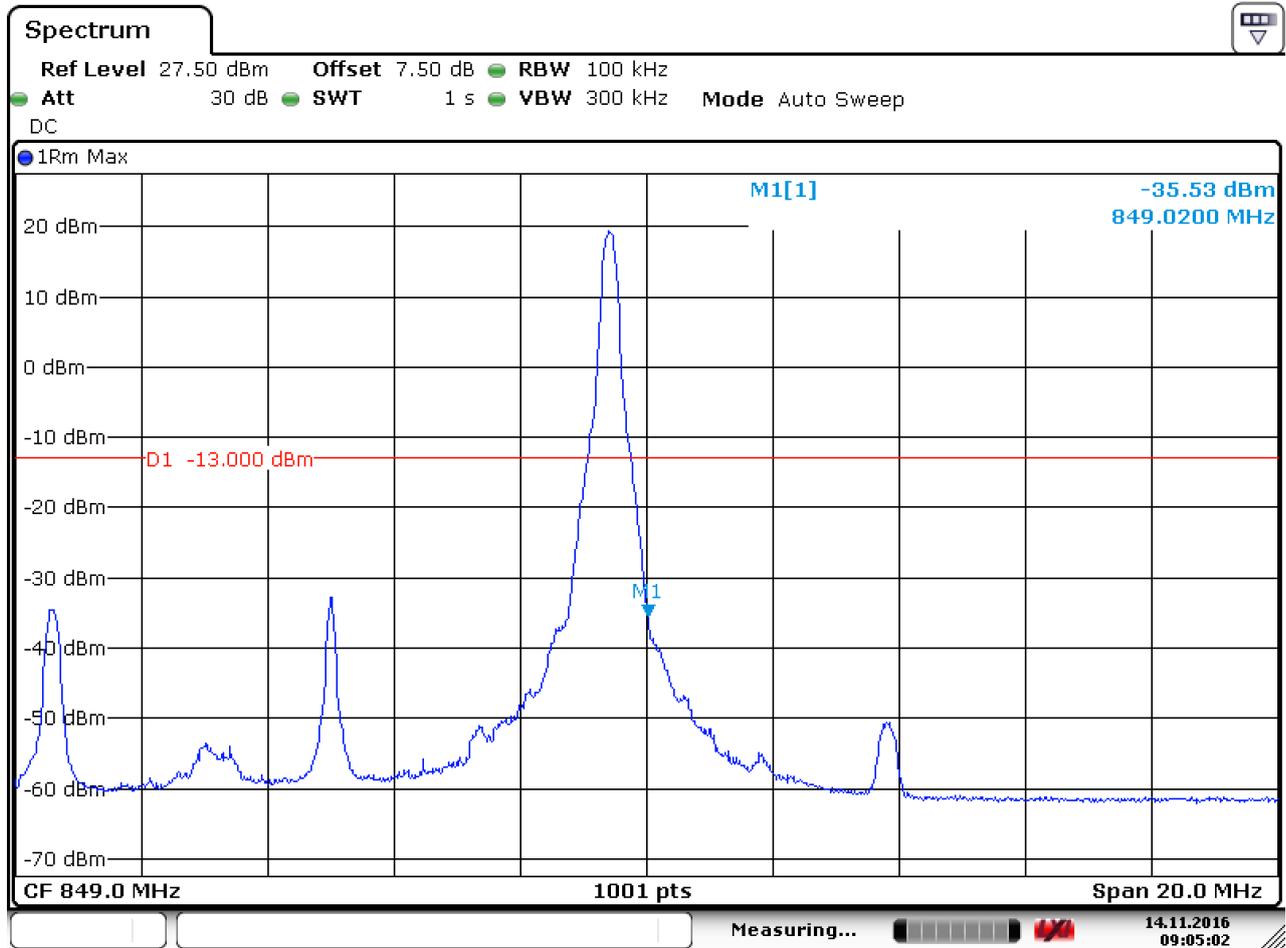


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5.1.1.6.2 Test Channel = HCH

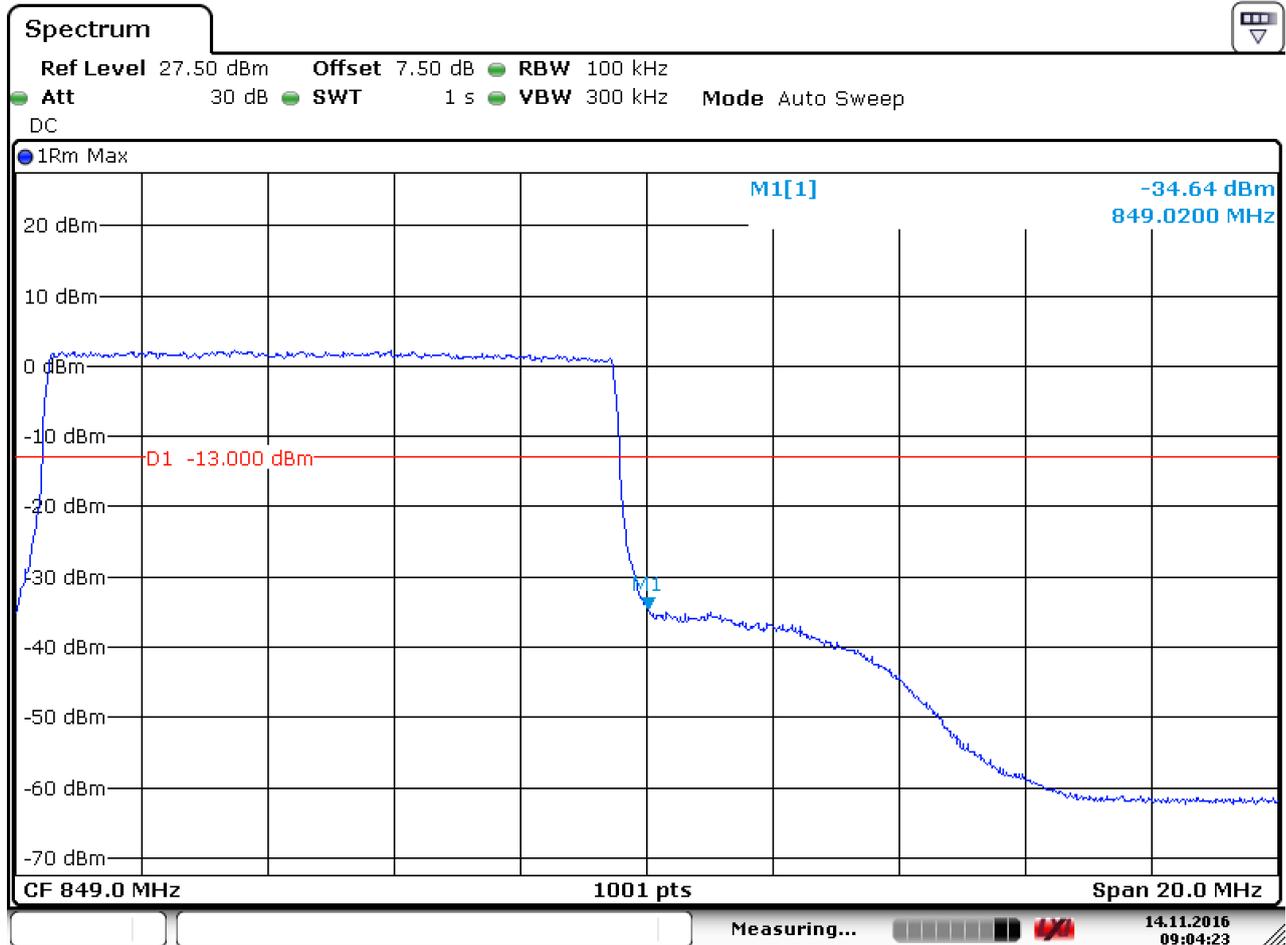
5.1.1.6.2.1 Test RB=1RB



Date: 14.NOV.2016 09:05:02



5.1.1.6.2.2 Test RB=50RB



Date: 14.NOV.2016 09:04:23

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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.

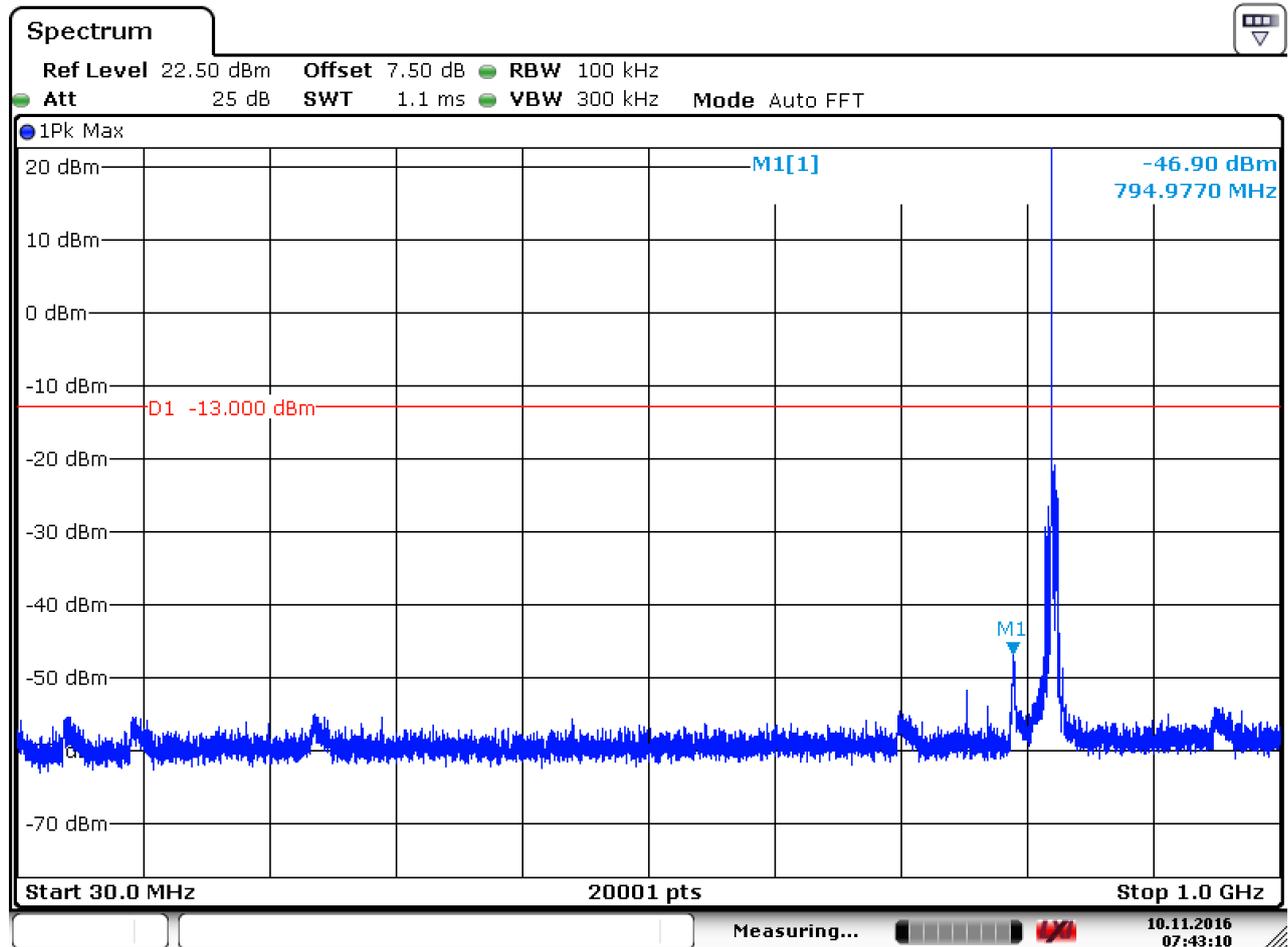
Part I - Test Plots

6.1 For LTE

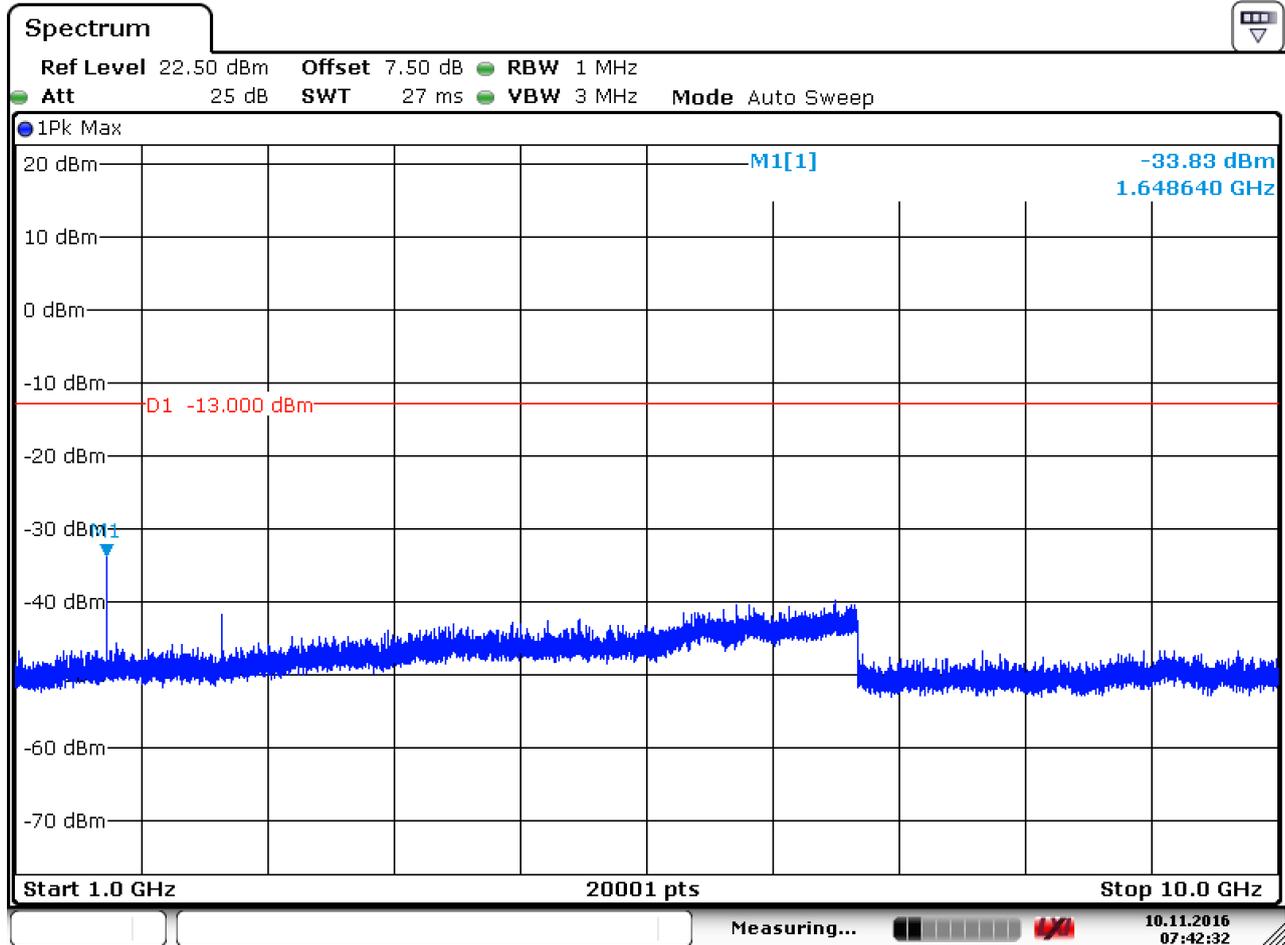
6.1.1 Test Band = LTE band5

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

6.1.1.1.1 Test Channel = LCH



Date: 10.NOV.2016 07:43:10

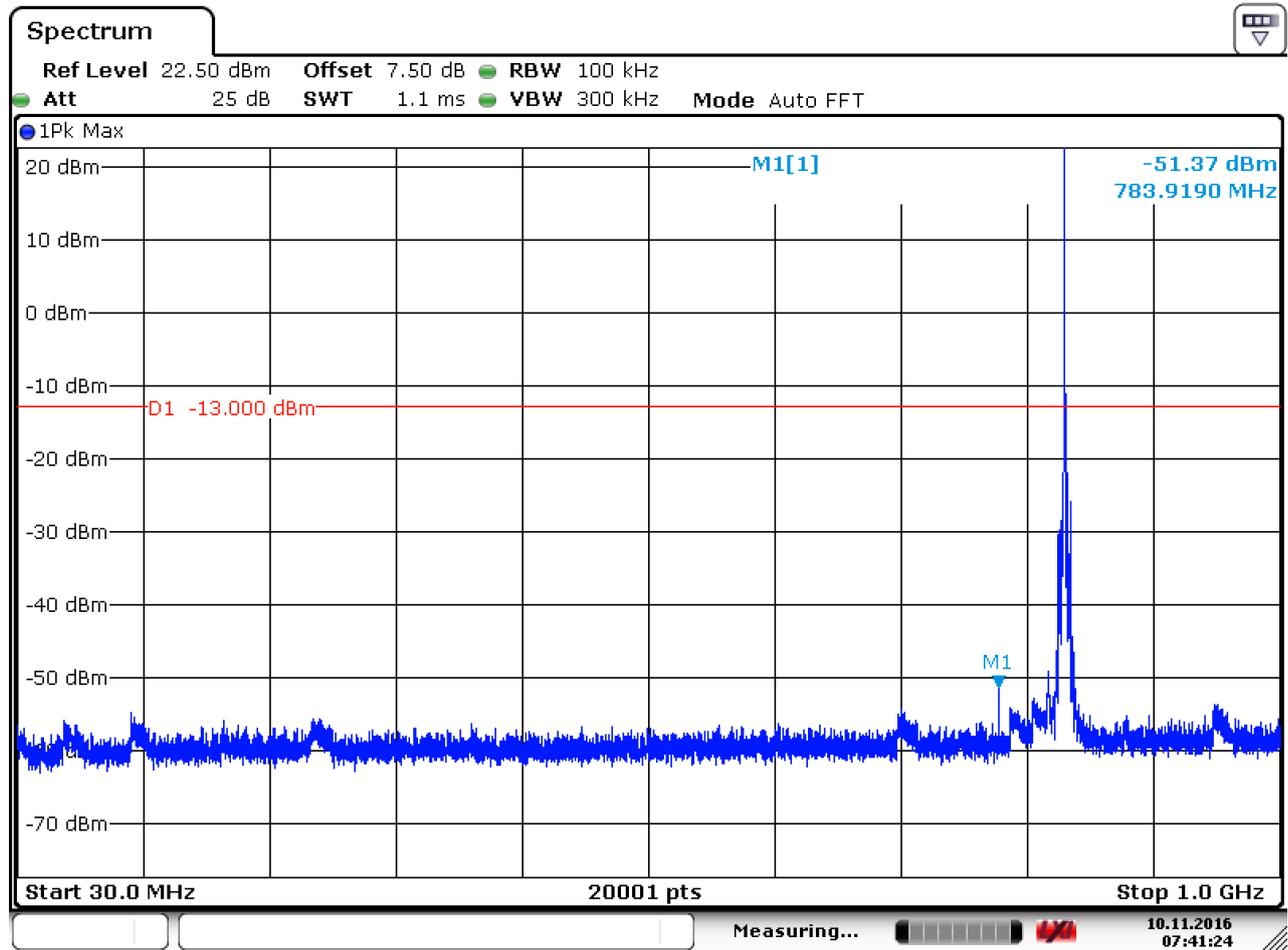


Date: 10.NOV.2016 07:42:33

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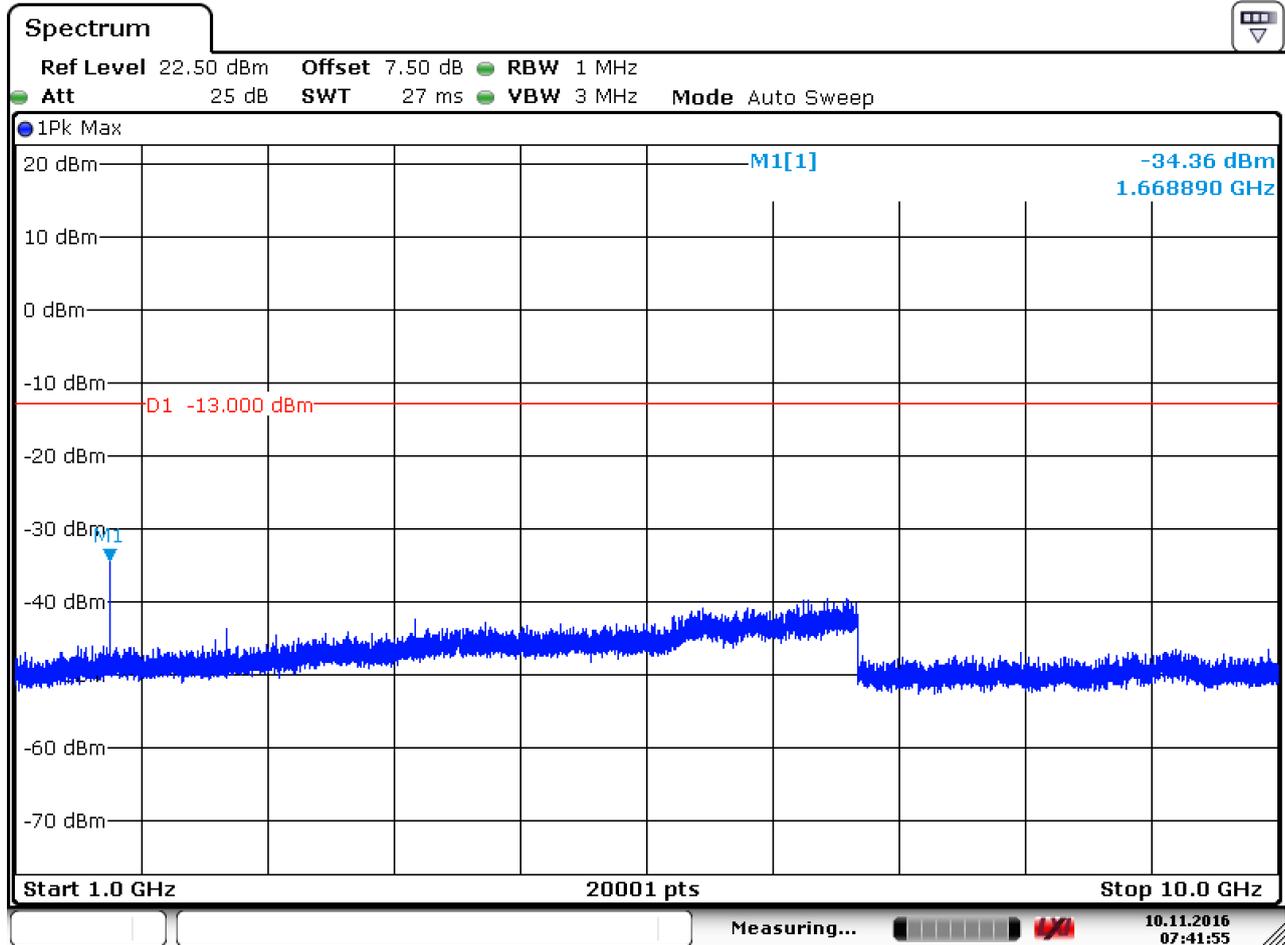


6.1.1.1.2 Test Channel = MCH



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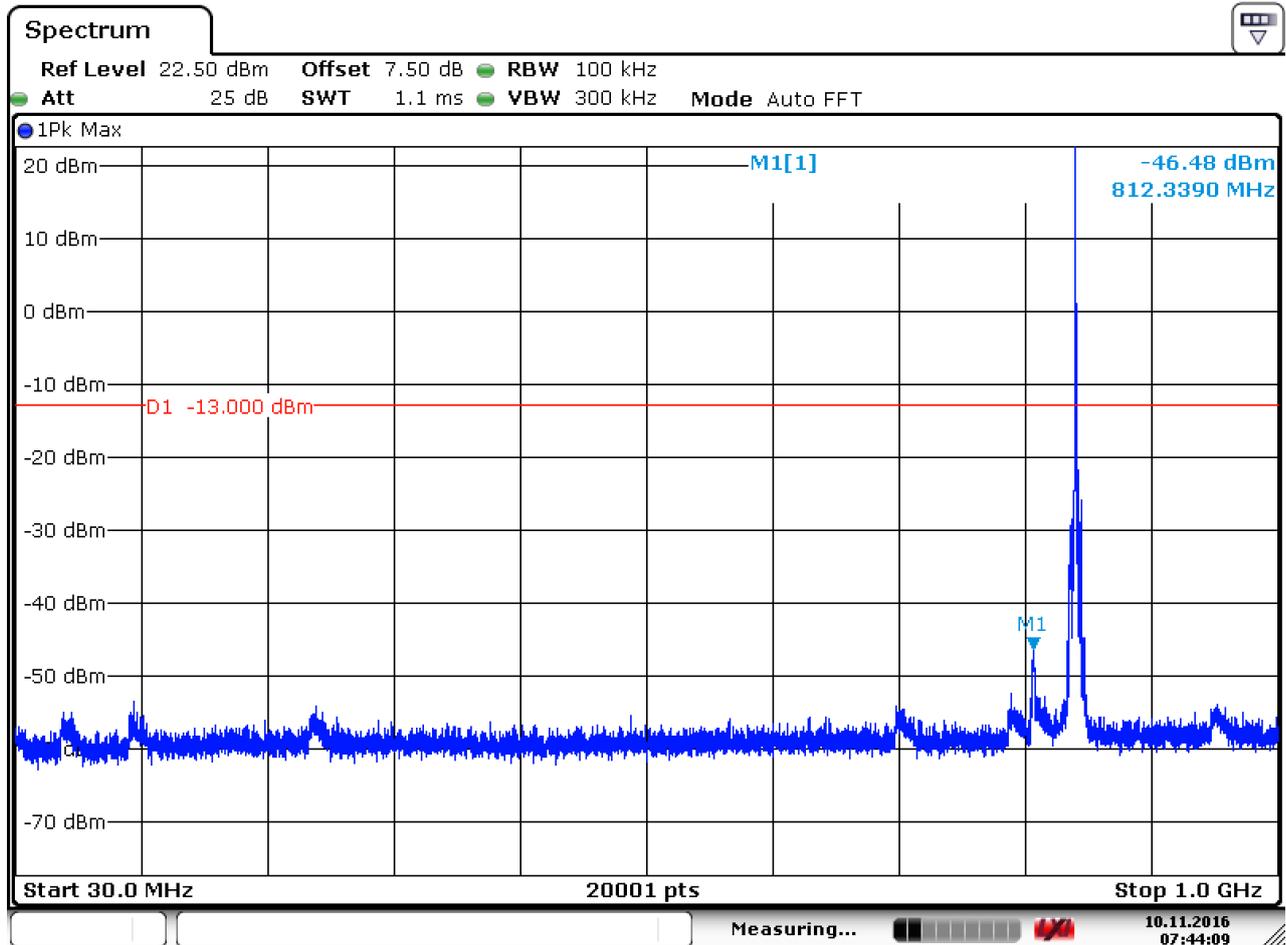


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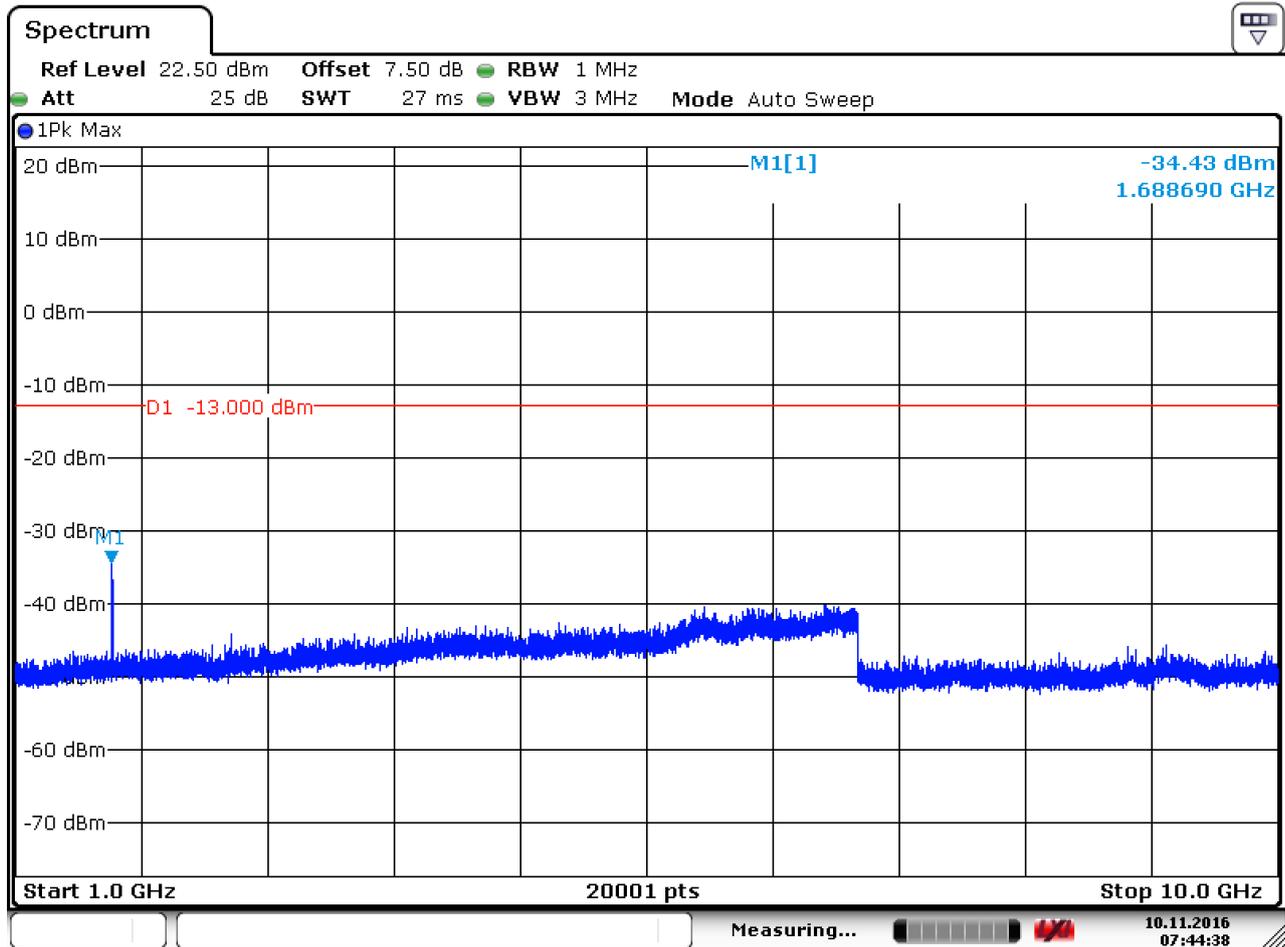


6.1.1.1.3 Test Channel = HCH



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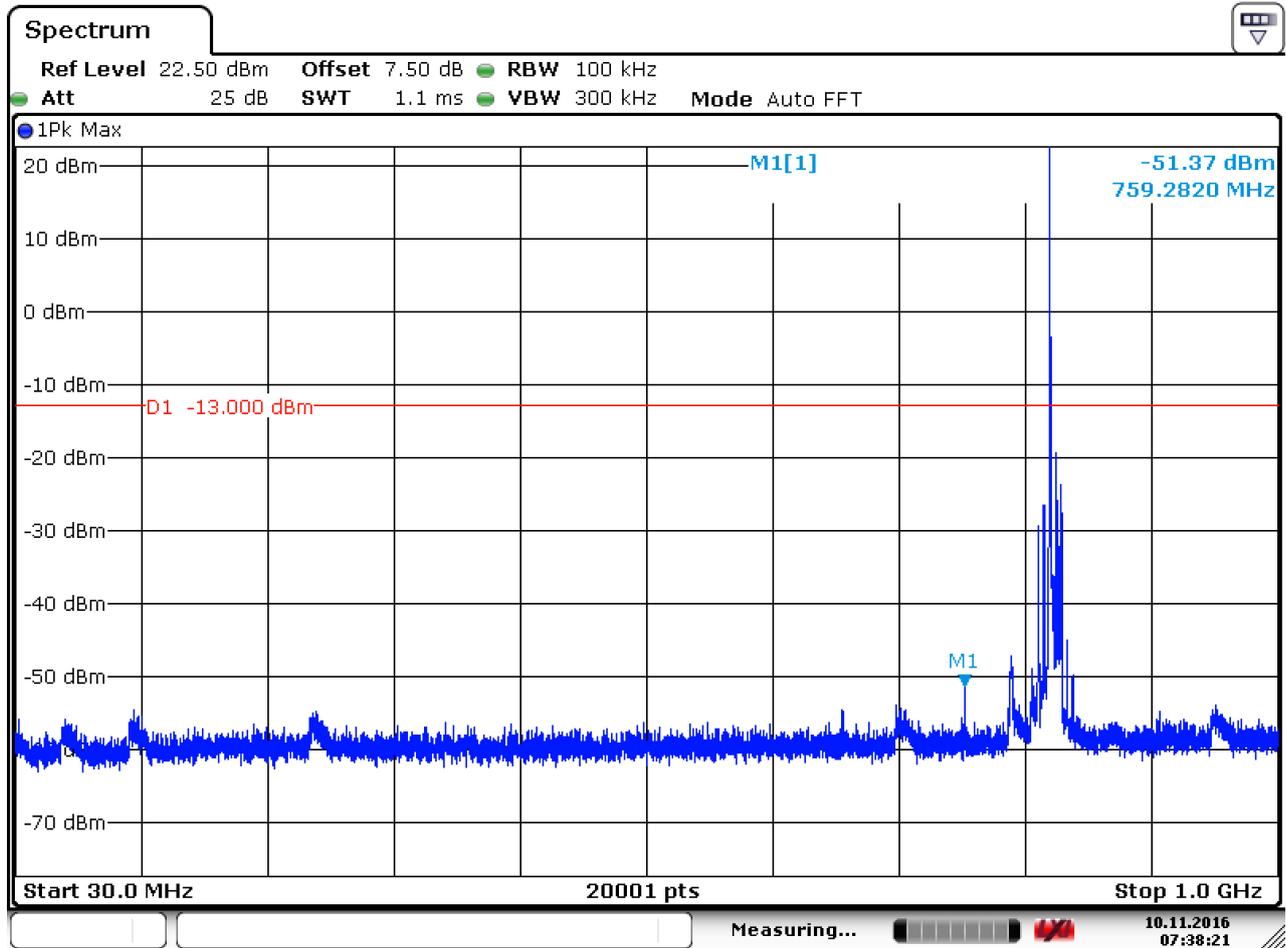
Date: 10.NOV.2016 07:44:38

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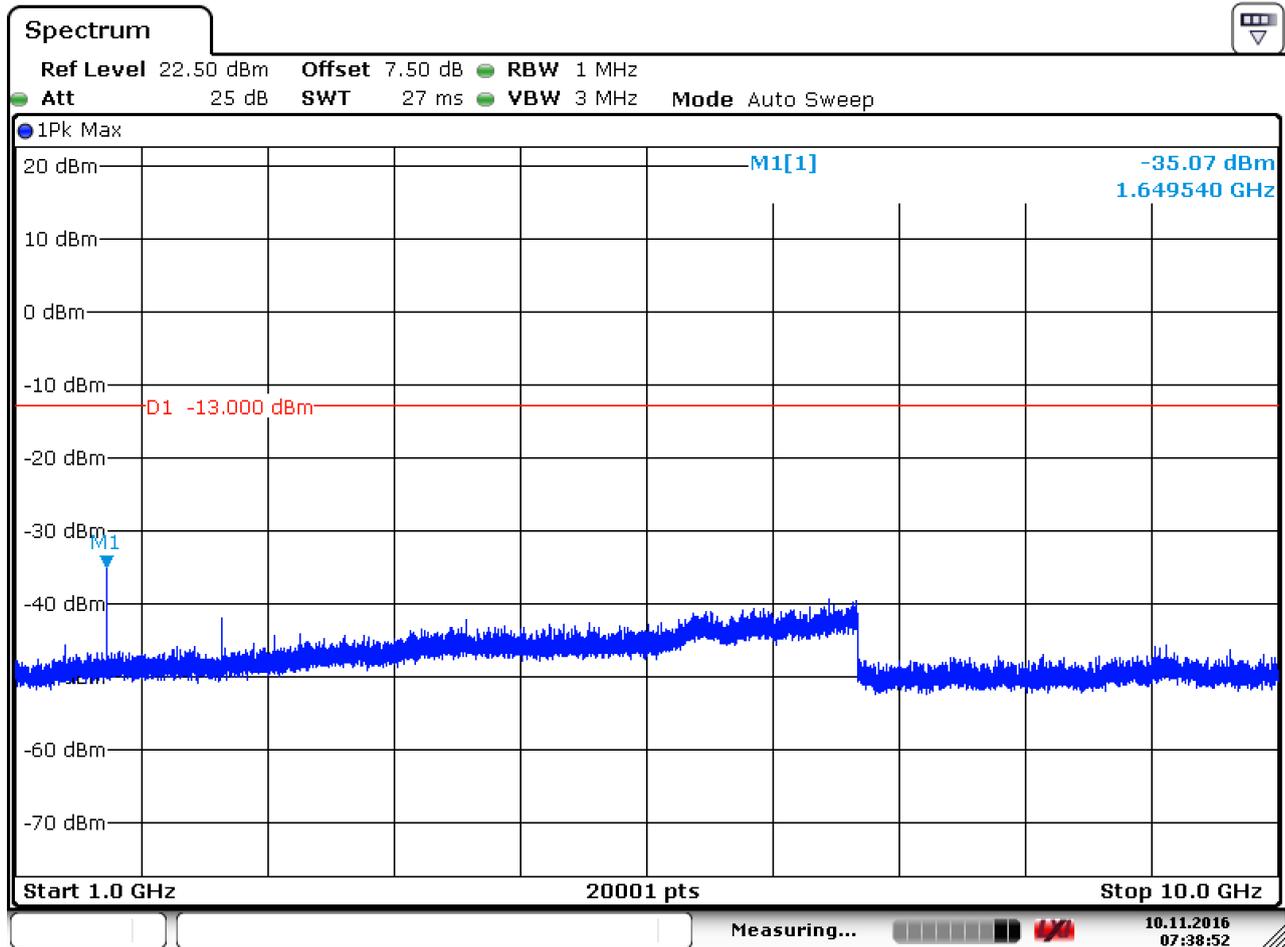


6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 10.NOV.2016 07:38:22

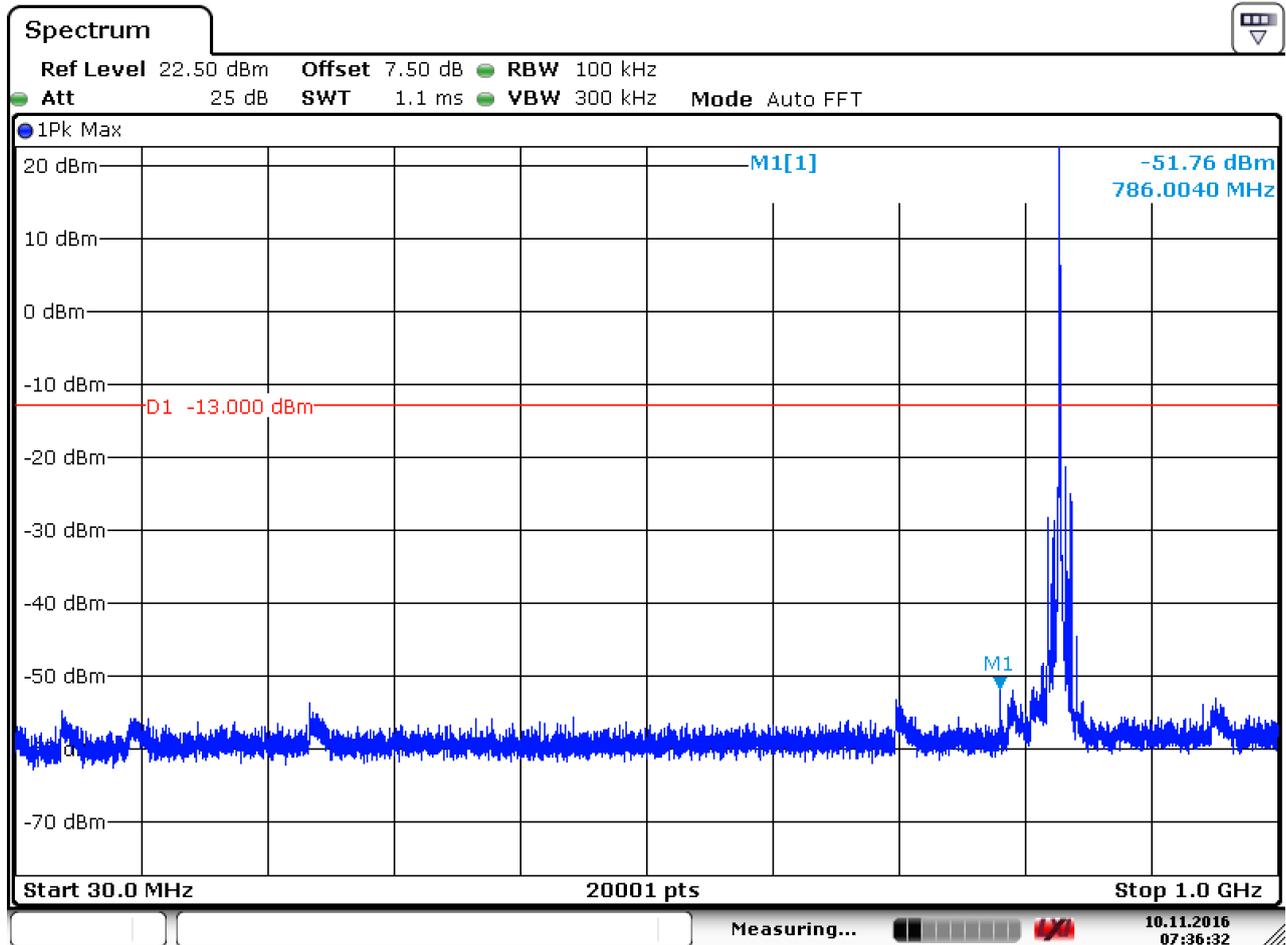


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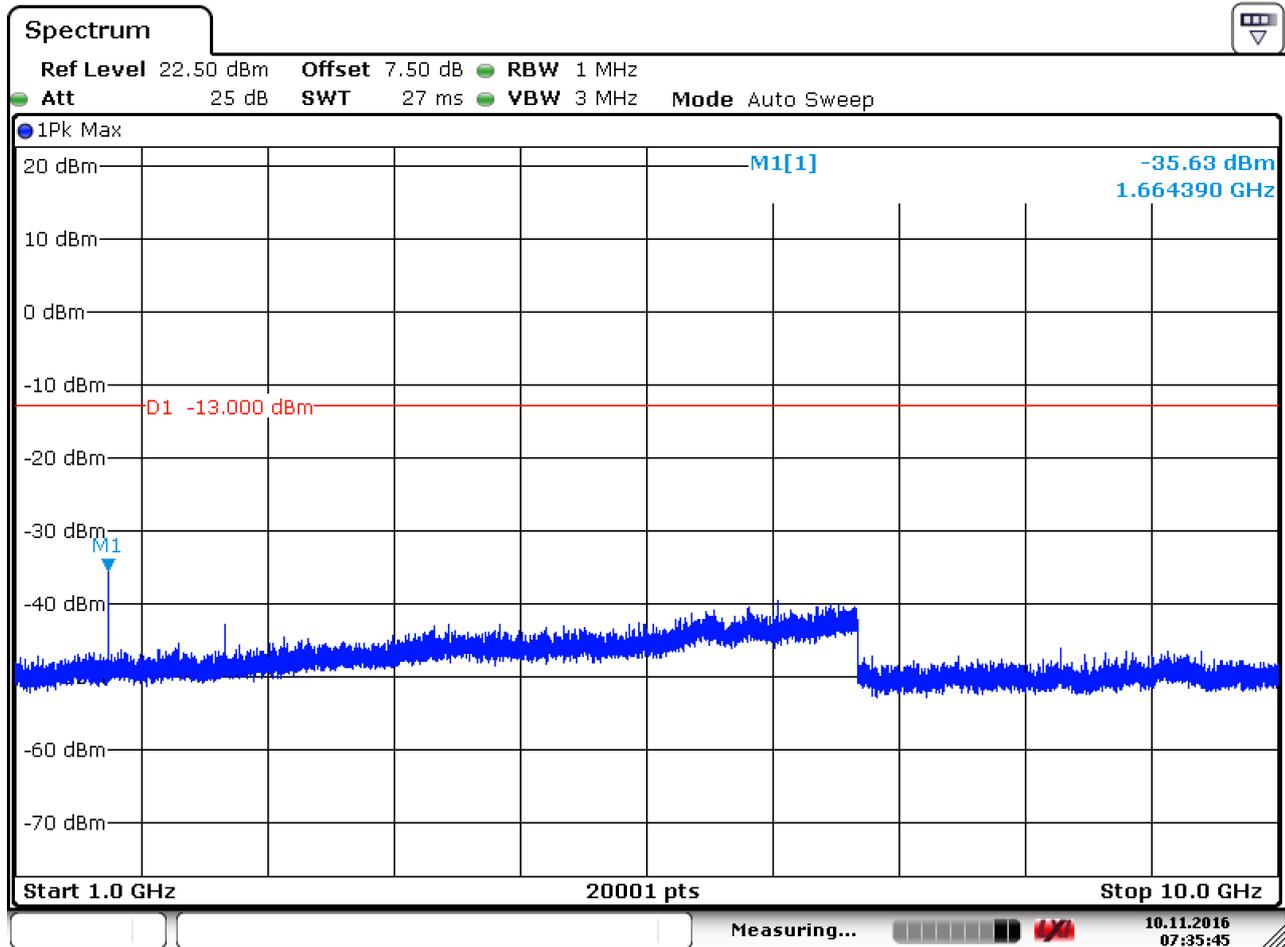


6.1.1.2.2 Test Channel = MCH



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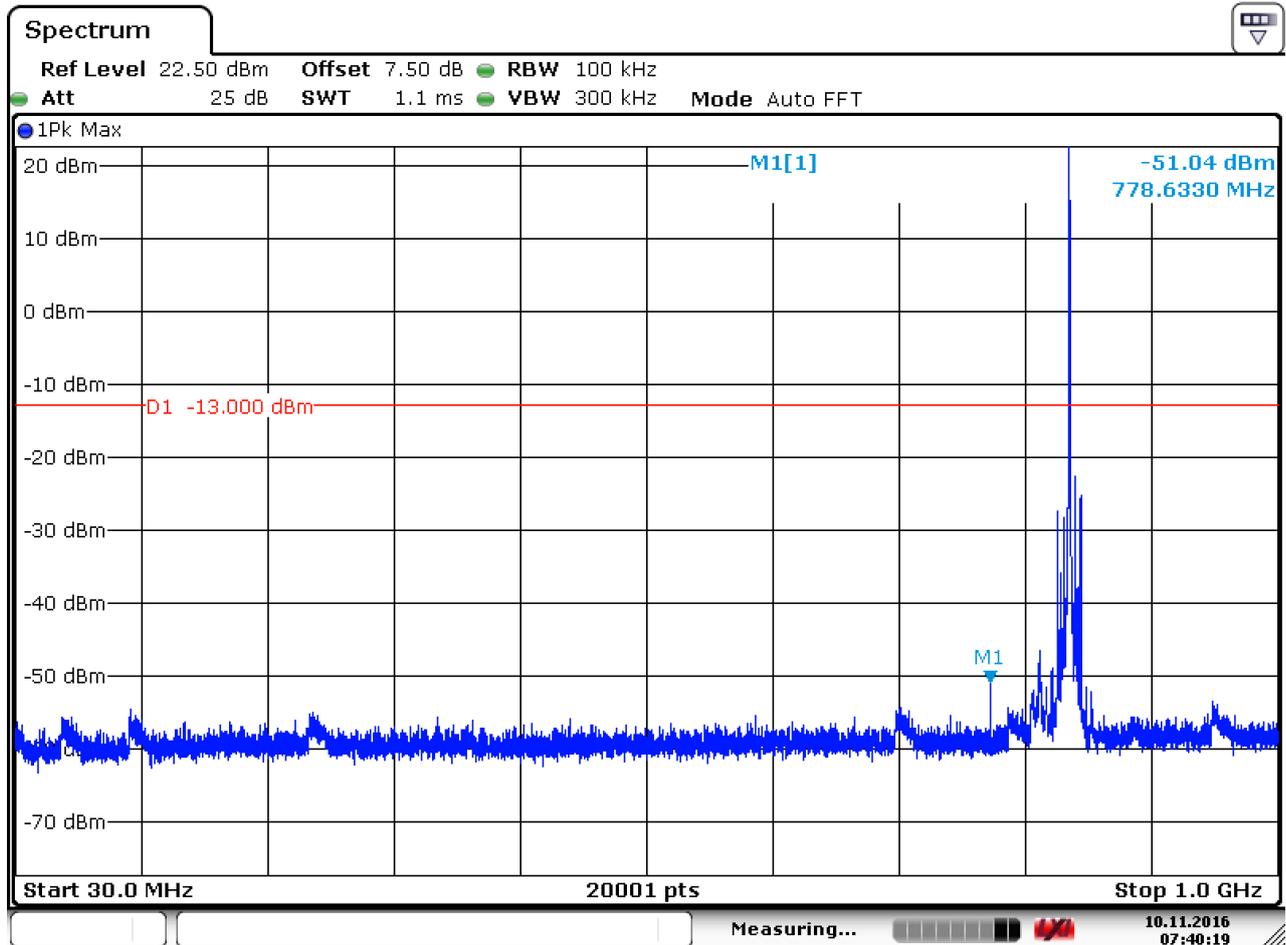


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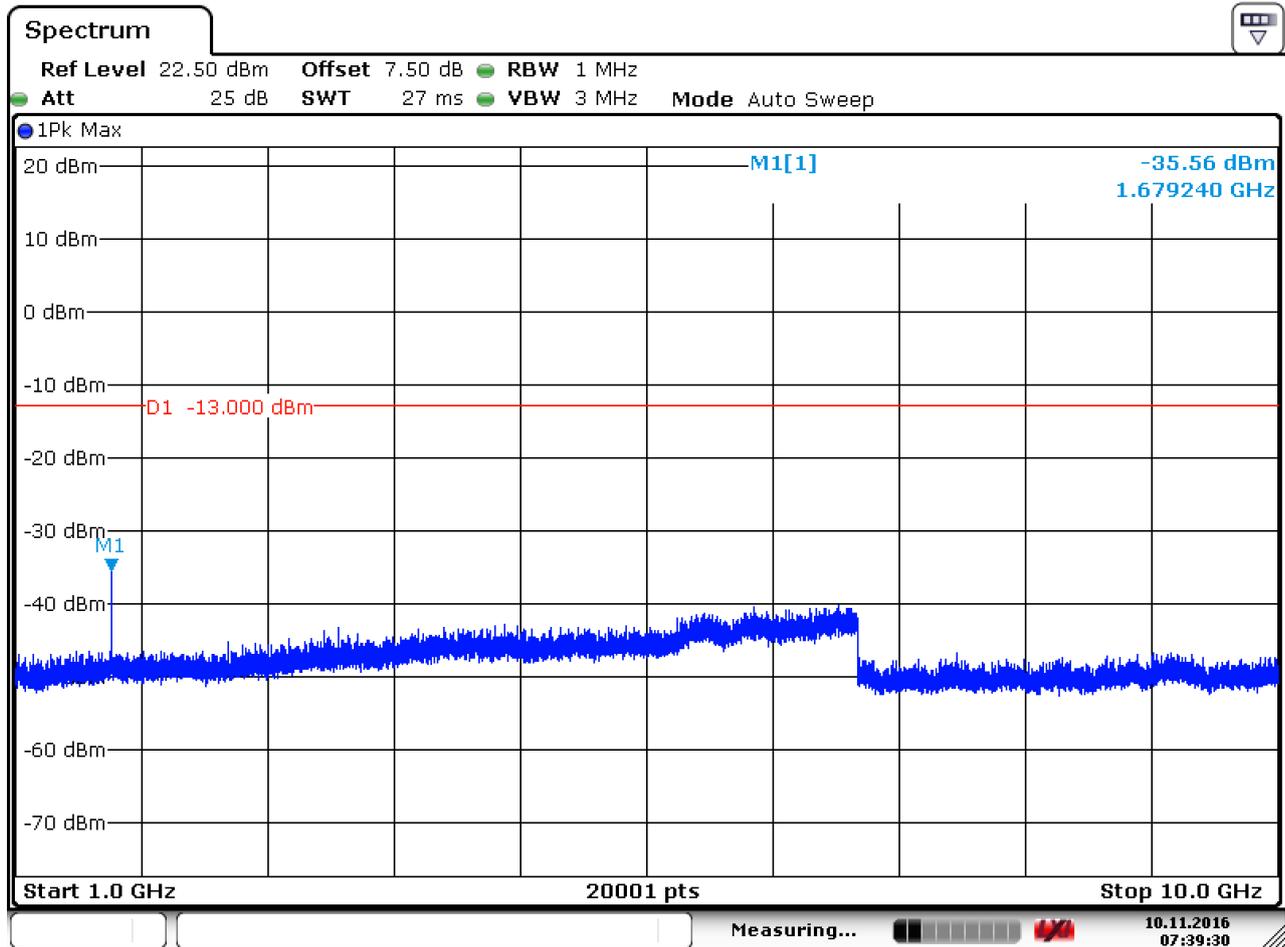


6.1.1.2.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

Part I - Test Plots

For LTE

7.1.1 Test Band = LTEband5

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
76.000	-92.51	-13.00	-79.51	Vertical
151.500	-89.22	-13.00	-76.22	Vertical
233.500	-91.90	-13.00	-78.90	Vertical
357.500	-87.34	-13.00	-74.34	Vertical
571.000	-83.32	-13.00	-70.32	Vertical
792.500	-82.34	-13.00	-69.34	Vertical
2464.000	-58.82	-13.00	-45.82	Vertical
4170.000	-68.12	-13.00	-55.12	Vertical
6120.000	-66.24	-13.00	-53.24	Vertical
7310.500	-66.77	-13.00	-53.77	Vertical
8465.000	-64.68	-13.00	-51.68	Vertical
10117.500	-64.84	-13.00	-51.84	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-92.33	-13.00	-79.33	Horizontal
214.500	-91.63	-13.00	-78.63	Horizontal
332.500	-90.12	-13.00	-77.12	Horizontal
457.500	-86.35	-13.00	-73.35	Horizontal
629.500	-83.22	-13.00	-70.22	Horizontal
878.500	-81.23	-13.00	-68.23	Horizontal
1190.000	-67.09	-13.00	-54.09	Horizontal
1804.000	-63.62	-13.00	-50.62	Horizontal
2680.000	-57.67	-13.00	-44.67	Horizontal
7875.000	-65.25	-13.00	-52.25	Horizontal
9507.500	-63.64	-13.00	-50.64	Horizontal
11872.500	-64.21	-13.00	-51.21	Horizontal

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7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-92.12	-13.00	-79.12	Vertical
147.600	-90.43	-13.00	-77.43	Vertical
283.000	-89.68	-13.00	-76.68	Vertical
424.500	-83.09	-13.00	-70.09	Vertical
612.500	-84.02	-13.00	-71.02	Vertical
781.500	-77.48	-13.00	-64.48	Vertical
1221.000	-66.49	-13.00	-53.49	Vertical
2208.000	-59.42	-13.00	-46.42	Vertical
5340.000	-67.38	-13.00	-54.38	Vertical
7952.500	-48.72	-13.00	-35.72	Vertical
9114.000	-64.88	-13.00	-51.88	Vertical
11072.500	-63.03	-13.00	-50.03	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.000	-88.54	-13.00	-75.54	Horizontal
148.500	-91.30	-13.00	-78.30	Horizontal
251.500	-88.33	-13.00	-75.33	Horizontal
438.500	-87.20	-13.00	-74.20	Horizontal
620.500	-84.34	-13.00	-71.34	Horizontal
907.500	-80.22	-13.00	-67.22	Horizontal
1397.000	-67.58	-13.00	-54.58	Horizontal
1892.000	-63.10	-13.00	-50.10	Horizontal
5340.000	-67.50	-13.00	-54.50	Horizontal
8046.500	-64.84	-13.00	-51.84	Horizontal
9723.500	-64.22	-13.00	-51.22	Horizontal
11842.500	-63.71	-13.00	-50.71	Horizontal

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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-92.12	-13.00	-79.12	Vertical
183.500	-92.71	-13.00	-79.71	Vertical
286.500	-89.13	-13.00	-76.13	Vertical
471.000	-88.22	-13.00	-75.22	Vertical
674.500	-85.35	-13.00	-72.35	Vertical
848.000	-82.22	-13.00	-69.22	Vertical
1210.000	-66.30	-13.00	-53.30	Vertical
2680.000	-57.44	-13.00	-44.44	Vertical
4852.500	-67.40	-13.00	-54.40	Vertical
7905.000	-65.37	-13.00	-52.37	Vertical
9714.500	-64.59	-13.00	-51.59	Vertical
11672.500	-63.44	-13.00	-50.44	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-93.14	-13.00	-80.14	Horizontal
167.500	-90.27	-13.00	-77.27	Horizontal
282.000	-86.38	-13.00	-73.38	Horizontal
415.800	-87.14	-13.00	-74.14	Horizontal
615.000	-84.74	-13.00	-71.74	Horizontal
772.000	-80.28	-13.00	-67.28	Horizontal
3090.000	-62.95	-13.00	-49.95	Horizontal
2632.000	-58.41	-13.00	-45.41	Horizontal
6022.500	-66.49	-13.00	-53.49	Horizontal
7799.500	-65.72	-13.00	-52.72	Horizontal
9240.000	-64.41	-13.00	-51.41	Horizontal
10635.500	-63.23	-13.00	-50.23	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	-4.38	-0.00528	PASS
				VN	-0.35	-0.00042	PASS
				VH	2.02	0.00244	PASS
		MCH	TN	VL	-3.74	-0.00447	PASS
				VN	1.73	0.00207	PASS
				VH	-4.66	-0.00557	PASS
		HCH	TN	VL	3.74	0.00443	PASS
				VN	-1.62	-0.00192	PASS
				VH	6.84	0.00810	PASS
	LTE /TM2 10MHz	LCH	TN	VL	-1.14	-0.00138	PASS
				VN	-5.28	-0.00637	PASS
				VH	-3.16	-0.00381	PASS
		MCH	TN	VL	-1.42	-0.00170	PASS
				VN	-3.33	-0.00398	PASS
				VH	-5.20	-0.00622	PASS
		HCH	TN	VL	-3.23	-0.00383	PASS
				VN	-7.23	-0.00857	PASS
				VH	-4.28	-0.00507	PASS
	LTE /TM3 10MHz	LCH	TN	VL	-2.38	-0.00287	PASS
				VN	-0.55	-0.00066	PASS
				VH	-5.40	-0.00651	PASS
		MCH	TN	VL	-2.48	-0.00296	PASS
				VN	-1.63	-0.00195	PASS
				VH	-3.68	-0.00440	PASS
		HCH	TN	VL	-6.83	-0.00809	PASS
				VN	-3.12	-0.00370	PASS
				VH	2.10	0.00249	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band5	LTE/TM1 10MHz	LCH	VN	-30	-5.33	-0.00643	PASS
				-20	-1.43	-0.00172	PASS
				-10	-2.60	-0.00314	PASS
				0	-3.23	-0.00390	PASS
				10	1.34	0.00162	PASS
				20	2.48	0.00299	PASS
				30	3.51	0.00423	PASS
				40	0.40	0.00048	PASS
				50	-6.10	-0.00736	PASS
		MCH	VN	-30	-3.51	-0.00420	PASS
				-20	2.94	0.00351	PASS
				-10	-1.95	-0.00233	PASS
				0	-2.03	-0.00243	PASS
				10	1.34	0.00160	PASS
				20	-2.45	-0.00293	PASS
				30	2.93	0.00350	PASS
				40	-4.67	-0.00558	PASS
				50	-4.55	-0.00544	PASS
		HCH	VN	-30	-0.33	-0.00039	PASS
				-20	2.16	0.00256	PASS
				-10	-3.67	-0.00435	PASS
				0	-1.17	-0.00139	PASS
				10	-0.86	-0.00102	PASS
				20	-4.12	-0.00488	PASS
				30	-2.31	-0.00274	PASS
				40	-4.21	-0.00499	PASS
				50	-6.55	-0.00776	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	-7.12	-0.00859	PASS
				-20	-5.37	-0.00648	PASS
				-10	-4.09	-0.00493	PASS
				0	-2.25	-0.00271	PASS
				10	1.34	0.00162	PASS
				20	-4.01	-0.00484	PASS
				30	-5.34	-0.00644	PASS
				40	-5.37	-0.00648	PASS
				50	1.54	0.00186	PASS
		MCH	VN	-30	-5.81	-0.00695	PASS
				-20	-4.31	-0.00515	PASS
				-10	-1.23	-0.00147	PASS
				0	-2.43	-0.00290	PASS
				10	-1.13	-0.00135	PASS
				20	-5.61	-0.00671	PASS
				30	2.24	0.00268	PASS
				40	-4.34	-0.00519	PASS
				50	-9.95	-0.01189	PASS
		HCH	VN	-30	-7.32	-0.00867	PASS
				-20	-3.11	-0.00368	PASS
				-10	-6.29	-0.00745	PASS
				0	-0.26	-0.00031	PASS
				10	1.03	0.00122	PASS
				20	4.62	0.00547	PASS
				30	-7.31	-0.00866	PASS
				40	-2.59	-0.00307	PASS
				50	-5.11	-0.00605	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
LTE band5	LTE/TM2 10MHz	LCH	VN	-30	-6.63	-0.00800	PASS
				-20	-1.56	-0.00188	PASS
				-10	4.67	0.00563	PASS
				0	-2.68	-0.00323	PASS
				10	0.93	0.00112	PASS
				20	-1.80	-0.00217	PASS
				30	2.54	0.00306	PASS
				40	-4.04	-0.00487	PASS
				50	-5.01	-0.00604	PASS
		MCH	VN	-30	-4.80	-0.00574	PASS
				-20	-1.28	-0.00153	PASS
				-10	-4.19	-0.00501	PASS
				0	-1.38	-0.00165	PASS
				10	2.31	0.00276	PASS
				20	1.72	0.00206	PASS
				30	-3.63	-0.00434	PASS
				40	2.13	0.00255	PASS
				50	-6.35	-0.00759	PASS
		HCH	VN	-30	-0.47	-0.00056	PASS
				-20	3.68	0.00436	PASS
				-10	-4.55	-0.00539	PASS
				0	-1.22	-0.00145	PASS
				10	1.67	0.00198	PASS
				20	-2.28	-0.00270	PASS
				30	-5.64	-0.00668	PASS
				40	-4.63	-0.00549	PASS
				50	-6.60	-0.00782	PASS

The End

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