



Appendix B

Test Data for SZEM170100023101



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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(814-824)

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	1.4M	LCH	RB1#0	21.3	22.90	50.00	PASS
				RB1#2	20.97	22.57	50.00	PASS
				RB1#5	20.92	22.52	50.00	PASS
				RB3#0	20.99	22.59	50.00	PASS
				RB3#2	21.00	22.60	50.00	PASS
				RB3#3	20.98	22.58	50.00	PASS
				RB6#0	20.94	22.54	50.00	PASS
			MCH	RB1#0	21.13	22.73	50.00	PASS
				RB1#2	20.99	22.59	50.00	PASS
				RB1#5	21.02	22.62	50.00	PASS
				RB3#0	20.94	22.54	50.00	PASS
				RB3#2	21.03	22.63	50.00	PASS
				RB3#3	21.00	22.60	50.00	PASS
				RB6#0	20.98	22.58	50.00	PASS
			HCH	RB1#0	21.15	22.75	50.00	PASS
				RB1#2	21.07	22.67	50.00	PASS
				RB1#5	21.04	22.64	50.00	PASS
				RB3#0	21.02	22.62	50.00	PASS
				RB3#2	21.01	22.61	50.00	PASS
				RB3#3	21.06	22.66	50.00	PASS
				RB6#0	20.94	22.54	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	1.4M	LCH	RB1#0	21.26	22.86	50.00	PASS
				RB1#2	21.33	22.93	50.00	PASS
				RB1#5	21.27	22.87	50.00	PASS
				RB3#0	21.02	22.62	50.00	PASS
				RB3#2	21.08	22.68	50.00	PASS
				RB3#3	21.01	22.61	50.00	PASS
				RB6#0	20.05	21.65	50.00	PASS
			MCH	RB1#0	21.36	22.96	50.00	PASS
				RB1#2	21.32	22.92	50.00	PASS
				RB1#5	21.29	22.89	50.00	PASS
				RB3#0	21.03	22.63	50.00	PASS
				RB3#2	21.05	22.65	50.00	PASS
				RB3#3	21.04	22.64	50.00	PASS
				RB6#0	20.03	21.63	50.00	PASS
			HCH	RB1#0	21.40	23.00	50.00	PASS
				RB1#2	21.31	22.91	50.00	PASS
				RB1#5	21.25	22.85	50.00	PASS
				RB3#0	21.04	22.64	50.00	PASS
				RB3#2	21.18	22.78	50.00	PASS
				RB3#3	21.12	22.72	50.00	PASS
				RB6#0	20.15	21.75	50.00	PASS

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BAND26 (814-824)	LTE/TM3	1.4M	LCH	RB1#0	20.28	21.88	50.00	PASS
				RB1#2	20.39	21.99	50.00	PASS
				RB1#5	20.27	21.87	50.00	PASS
				RB3#0	20.17	21.77	50.00	PASS
				RB3#2	20.16	21.76	50.00	PASS
				RB3#3	20.15	21.75	50.00	PASS
				RB6#0	19.10	20.70	50.00	PASS
			MCH	RB1#0	20.33	21.93	50.00	PASS
				RB1#2	20.34	21.94	50.00	PASS
				RB1#5	20.25	21.85	50.00	PASS
				RB3#0	20.18	21.78	50.00	PASS
				RB3#2	20.16	21.76	50.00	PASS
				RB3#3	20.12	21.72	50.00	PASS
				RB6#0	19.13	20.73	50.00	PASS
			HCH	RB1#0	20.24	21.84	50.00	PASS
				RB1#2	20.33	21.93	50.00	PASS
				RB1#5	20.28	21.88	50.00	PASS
				RB3#0	20.15	21.75	50.00	PASS
				RB3#2	20.17	21.77	50.00	PASS
				RB3#3	20.15	21.75	50.00	PASS
				RB6#0	19.20	20.80	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	3M	LCH	RB1#0	21.01	22.61	50.00	PASS
				RB1#7	21.09	22.69	50.00	PASS
				RB1#14	20.94	22.54	50.00	PASS
				RB8#0	21.04	22.64	50.00	PASS
				RB8#4	21.06	22.66	50.00	PASS
				RB8#7	20.99	22.59	50.00	PASS
				RB15#0	21.03	22.63	50.00	PASS
			MCH	RB1#0	21.08	22.68	50.00	PASS
				RB1#7	21.11	22.71	50.00	PASS
				RB1#14	20.96	22.56	50.00	PASS
				RB8#0	21.14	22.74	50.00	PASS
				RB8#4	21.16	22.76	50.00	PASS
				RB8#7	21.07	22.67	50.00	PASS
				RB15#0	21.05	22.65	50.00	PASS
			HCH	RB1#0	21.13	22.73	50.00	PASS
				RB1#7	21.08	22.68	50.00	PASS
				RB1#14	21.14	22.74	50.00	PASS
				RB8#0	21.04	22.64	50.00	PASS
				RB8#4	21.04	22.64	50.00	PASS
				RB8#7	20.99	22.59	50.00	PASS
				RB15#0	21.02	22.62	50.00	PASS

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BAND26 (814-824)	LTE/TM2	3M	LCH	RB1#0	21.29	22.89	50.00	PASS
				RB1#7	21.47	23.07	50.00	PASS
				RB1#14	21.29	22.89	50.00	PASS
				RB8#0	20.06	21.66	50.00	PASS
				RB8#4	20.12	21.72	50.00	PASS
				RB8#7	20.06	21.66	50.00	PASS
				RB15#0	20.07	21.67	50.00	PASS
			MCH	RB1#0	21.35	22.95	50.00	PASS
				RB1#7	21.43	23.03	50.00	PASS
				RB1#14	21.39	22.99	50.00	PASS
				RB8#0	20.16	21.76	50.00	PASS
				RB8#4	20.10	21.70	50.00	PASS
				RB8#7	20.08	21.68	50.00	PASS
				RB15#0	20.06	21.66	50.00	PASS
			HCH	RB1#0	21.39	22.99	50.00	PASS
				RB1#7	21.42	23.02	50.00	PASS
				RB1#14	21.26	22.86	50.00	PASS
				RB8#0	20.18	21.78	50.00	PASS
				RB8#4	20.11	21.71	50.00	PASS
				RB8#7	20.17	21.77	50.00	PASS
				RB15#0	20.12	21.72	50.00	PASS

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BAND26 (814-824)	LTE/TM3	3M	LCH	RB1#0	20.37	21.97	50.00	PASS
				RB1#7	20.52	22.12	50.00	PASS
				RB1#14	20.31	21.91	50.00	PASS
				RB8#0	19.09	20.69	50.00	PASS
				RB8#4	19.12	20.72	50.00	PASS
				RB8#7	19.09	20.69	50.00	PASS
				RB15#0	19.13	20.73	50.00	PASS
			MCH	RB1#0	20.27	21.87	50.00	PASS
				RB1#7	20.32	21.92	50.00	PASS
				RB1#14	20.33	21.93	50.00	PASS
				RB8#0	19.19	20.79	50.00	PASS
				RB8#4	19.10	20.70	50.00	PASS
				RB8#7	19.13	20.73	50.00	PASS
				RB15#0	19.12	20.72	50.00	PASS
			HCH	RB1#0	20.34	21.94	50.00	PASS
				RB1#7	20.42	22.02	50.00	PASS
				RB1#14	20.33	21.93	50.00	PASS
				RB8#0	19.29	20.89	50.00	PASS
				RB8#4	19.15	20.75	50.00	PASS
				RB8#7	19.07	20.67	50.00	PASS
				RB15#0	19.11	20.71	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	5M	LCH	RB1#0	20.98	22.58	50.00	PASS
				RB1#13	21.01	22.61	50.00	PASS
				RB1#24	20.91	22.51	50.00	PASS
				RB12#0	20.99	22.59	50.00	PASS
				RB12#6	21.00	22.60	50.00	PASS
				RB12#13	20.97	22.57	50.00	PASS
				RB25#0	20.97	22.57	50.00	PASS
			MCH	RB1#0	21.08	22.68	50.00	PASS
				RB1#13	21.03	22.63	50.00	PASS
				RB1#24	20.99	22.59	50.00	PASS
				RB12#0	20.98	22.58	50.00	PASS
				RB12#6	21.03	22.63	50.00	PASS
				RB12#13	20.99	22.59	50.00	PASS
				RB25#0	20.94	22.54	50.00	PASS
			HCH	RB1#0	21.08	22.68	50.00	PASS
				RB1#13	21.03	22.63	50.00	PASS
				RB1#24	21.02	22.62	50.00	PASS
				RB12#0	20.99	22.59	50.00	PASS
				RB12#6	21.06	22.66	50.00	PASS
				RB12#13	21.11	22.71	50.00	PASS
				RB25#0	21.10	22.70	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	5M	LCH	RB1#0	21.23	22.83	50.00	PASS
				RB1#13	21.29	22.89	50.00	PASS
				RB1#24	21.16	22.76	50.00	PASS
				RB12#0	20.07	21.67	50.00	PASS
				RB12#6	20.03	21.63	50.00	PASS
				RB12#13	20.05	21.65	50.00	PASS
				RB25#0	20.08	21.68	50.00	PASS
			MCH	RB1#0	21.33	22.93	50.00	PASS
				RB1#13	21.28	22.88	50.00	PASS
				RB1#24	21.19	22.79	50.00	PASS
				RB12#0	20.11	21.71	50.00	PASS
				RB12#6	20.06	21.66	50.00	PASS
				RB12#13	20.08	21.68	50.00	PASS
				RB25#0	20.09	21.69	50.00	PASS
			HCH	RB1#0	21.36	22.96	50.00	PASS
				RB1#13	21.32	22.92	50.00	PASS
				RB1#24	21.26	22.86	50.00	PASS
				RB12#0	20.09	21.69	50.00	PASS
				RB12#6	20.23	21.83	50.00	PASS
				RB12#13	20.15	21.75	50.00	PASS
				RB25#0	20.18	21.78	50.00	PASS

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BAND26 (814-824)	LTE/TM3	5M	LCH	RB1#0	20.36	21.96	50.00	PASS
				RB1#13	20.45	22.05	50.00	PASS
				RB1#24	20.32	21.92	50.00	PASS
				RB12#0	19.14	20.74	50.00	PASS
				RB12#6	19.12	20.72	50.00	PASS
				RB12#13	19.05	20.65	50.00	PASS
				RB25#0	19.03	20.63	50.00	PASS
			MCH	RB1#0	20.32	21.92	50.00	PASS
				RB1#13	20.46	22.06	50.00	PASS
				RB1#24	20.36	21.96	50.00	PASS
				RB12#0	19.12	20.72	50.00	PASS
				RB12#6	19.16	20.76	50.00	PASS
				RB12#13	19.11	20.71	50.00	PASS
				RB25#0	19.13	20.73	50.00	PASS
			HCH	RB1#0	20.56	22.16	50.00	PASS
				RB1#13	20.46	22.06	50.00	PASS
				RB1#24	20.42	22.02	50.00	PASS
				RB12#0	19.24	20.84	50.00	PASS
				RB12#6	19.22	20.82	50.00	PASS
				RB12#13	19.20	20.80	50.00	PASS
				RB25#0	19.23	20.83	50.00	PASS

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BAND26 (814-824)	LTE/TM1	10M	MCH	RB1#0	21.85	23.45	50.00	PASS
				RB1#25	20.90	22.50	50.00	PASS
				RB1#49	20.87	22.47	50.00	PASS
				RB25#0	20.97	22.57	50.00	PASS
				RB25#13	20.95	22.55	50.00	PASS
				RB25#25	20.92	22.52	50.00	PASS
				RB50#0	21.95	23.55	50.00	PASS
	LTE/TM2	10M	MCH	RB1#0	21.36	22.96	50.00	PASS
				RB1#25	21.22	22.82	50.00	PASS
				RB1#49	21.18	22.78	50.00	PASS
				RB25#0	20.17	21.77	50.00	PASS
				RB25#13	20.12	21.72	50.00	PASS
				RB25#25	20.11	21.71	50.00	PASS
				RB50#0	20.08	21.68	50.00	PASS
	LTE/TM3	10M	MCH	RB1#0	20.81	22.41	50.00	PASS
				RB1#25	20.71	22.31	50.00	PASS
				RB1#49	20.64	22.24	50.00	PASS
				RB25#0	19.19	20.79	50.00	PASS
				RB25#13	19.17	20.77	50.00	PASS
				RB25#25	19.15	20.75	50.00	PASS
				RB50#0	19.11	20.71	50.00	PASS

Note:

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

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

b: SGP=Signal Generator Level

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

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 26(814-824)	TM1/10M	MCH	5.25	13	PASS
	TM2/10M	MCH	6.14	13	PASS
	TM3/10M	MCH	6.70	13	PASS



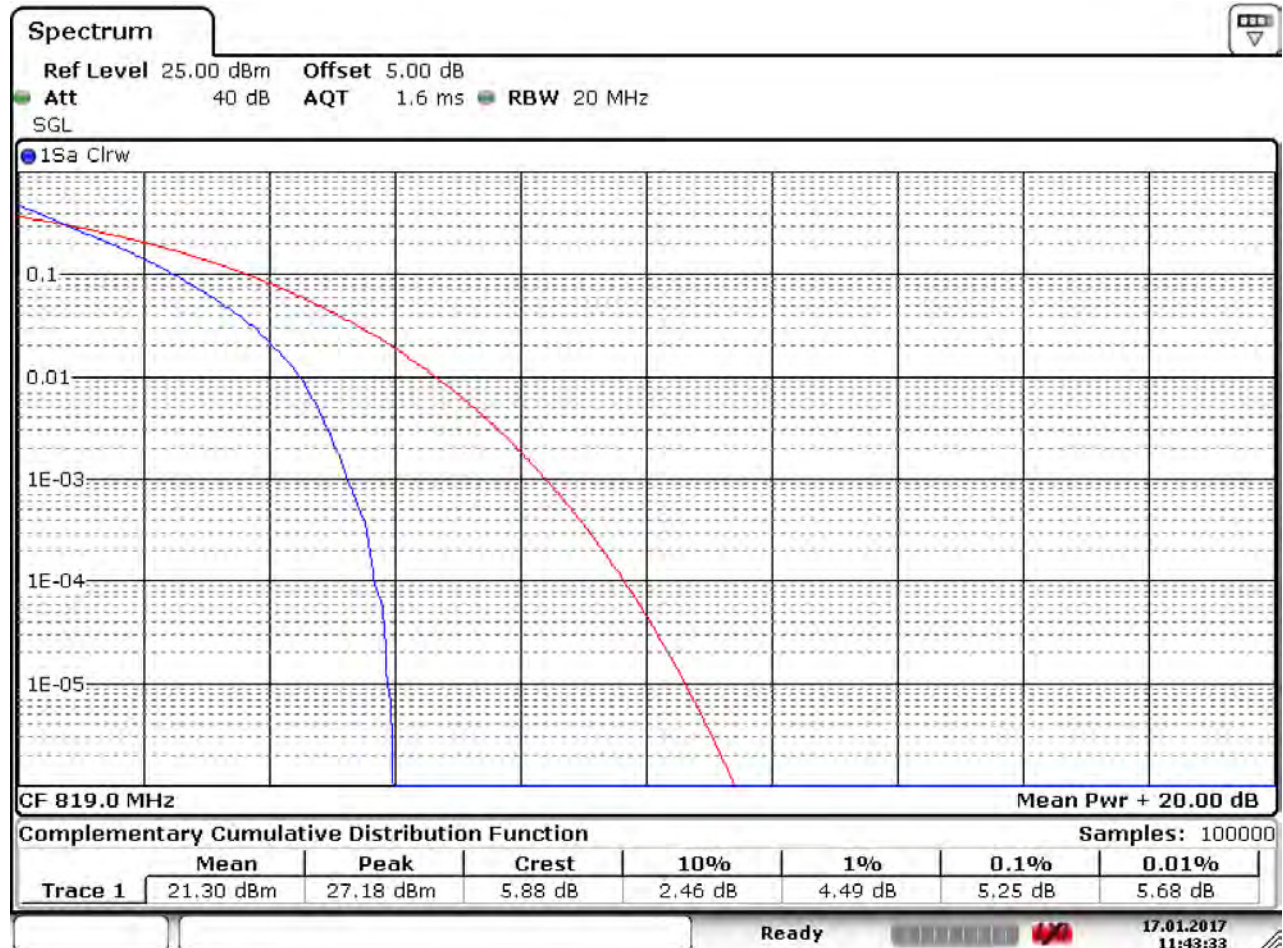
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26

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

2.1.1.1.1 Test Channel = MCH



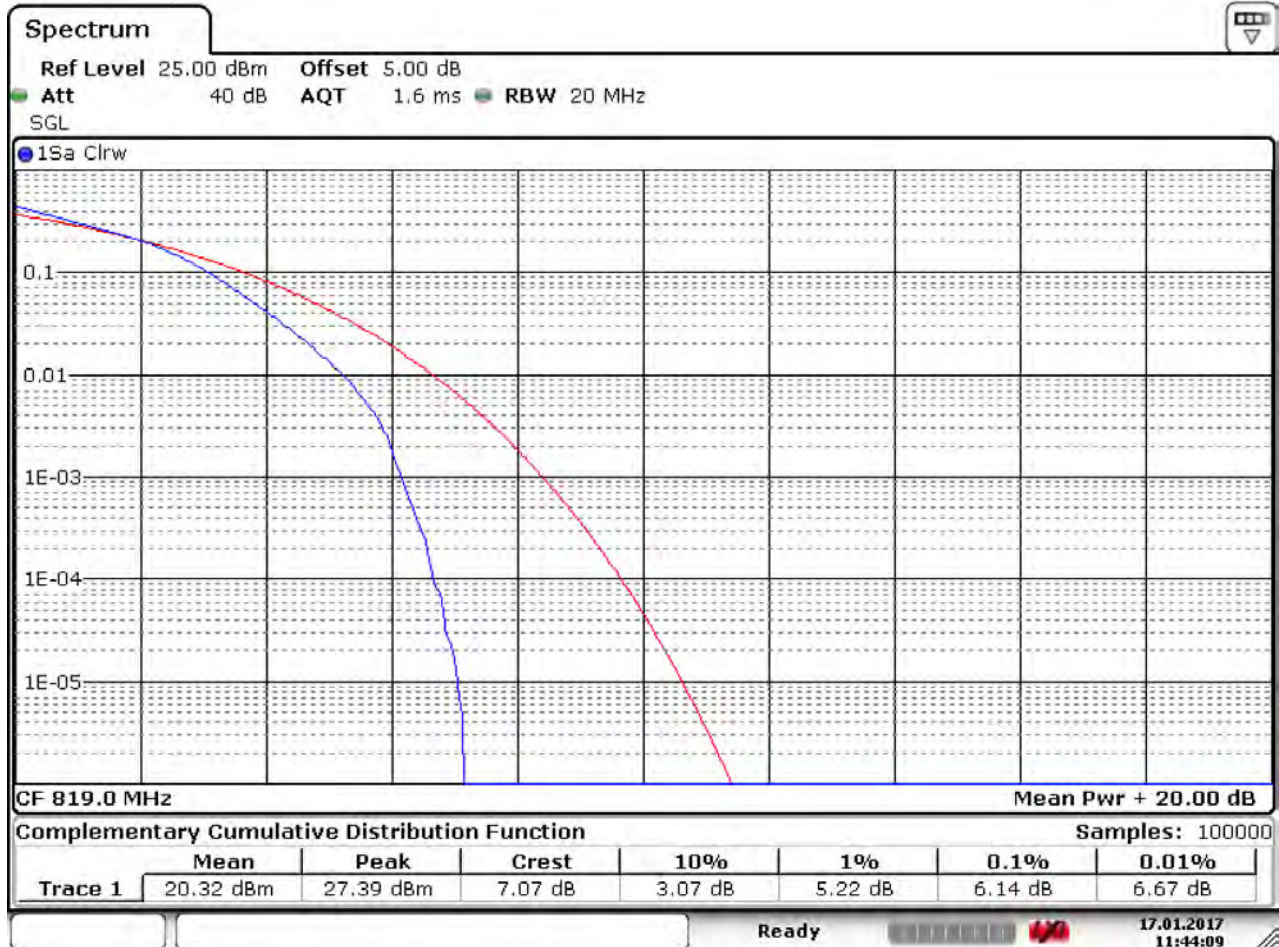
Date: 17.JAN.2017 11:43:33

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

2.1.1.2.1 Test Channel = MCH



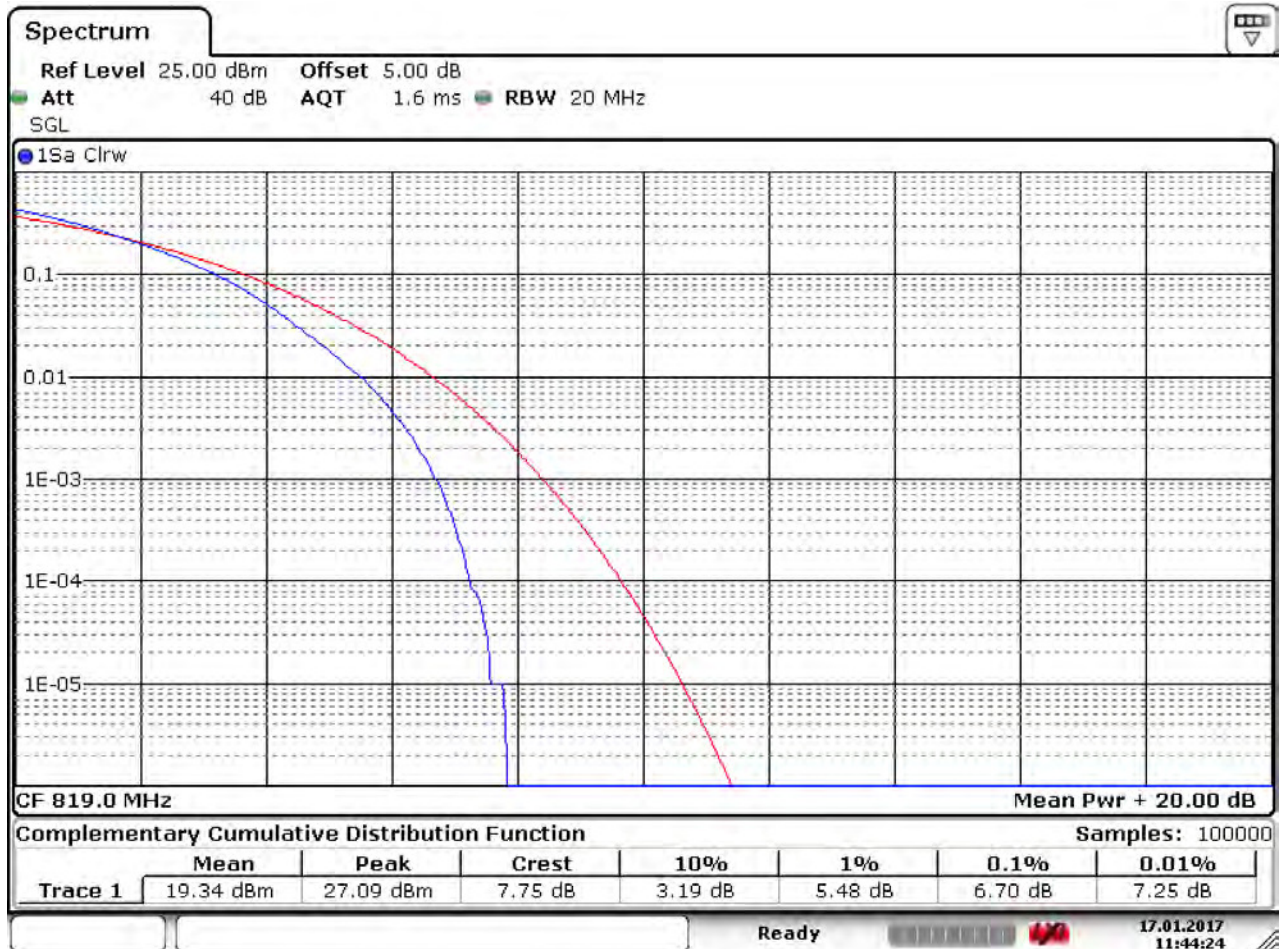
Date: 17.JAN.2017 11:44:09

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

2.1.1.3.1 Test Channel = MCH



Date: 17.JAN.2017 11:44:24

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3 Modulation Characteristics

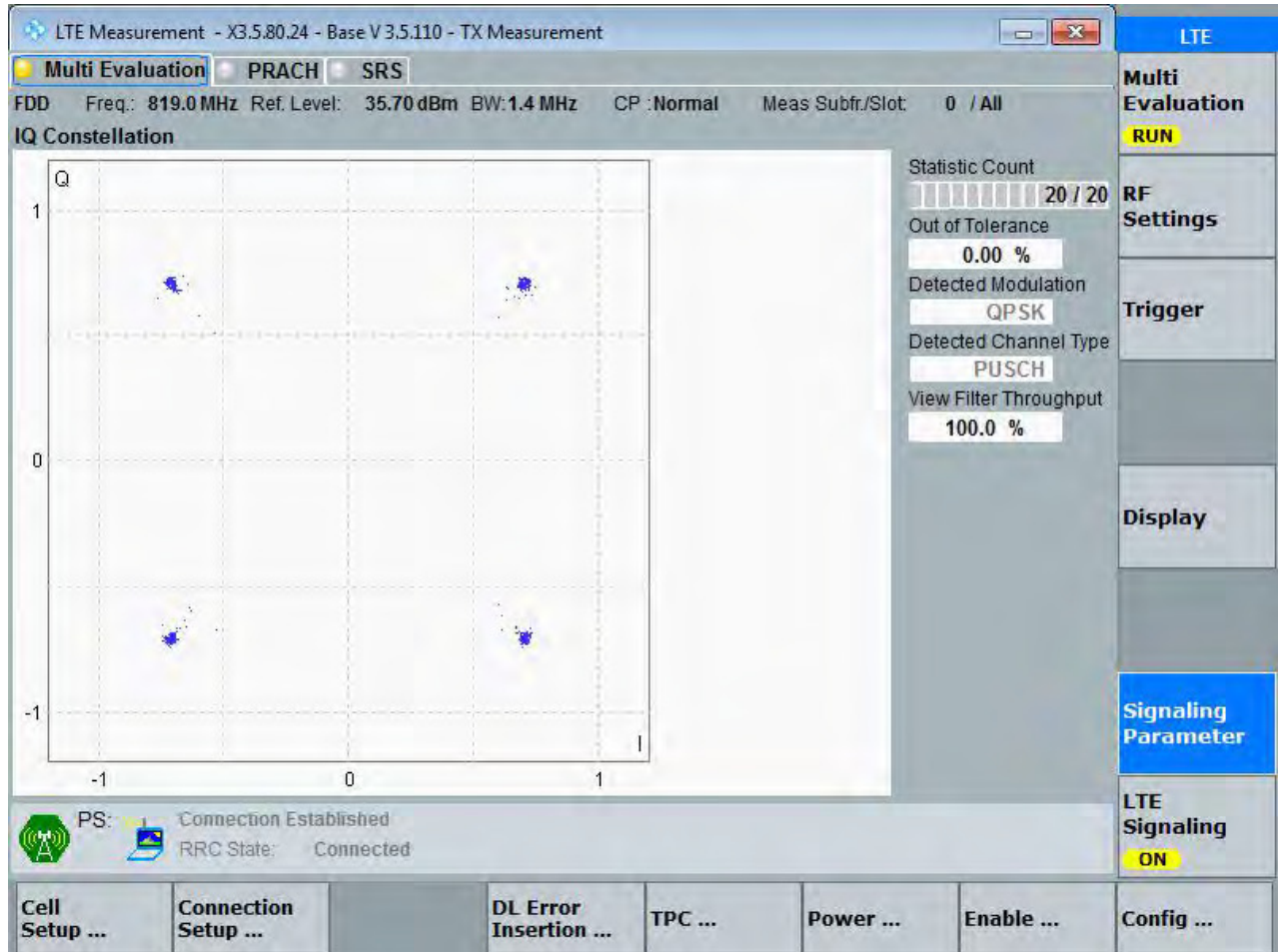
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band26

3.1.1.1 Test Mode = LTE /TM1 1.4MHz

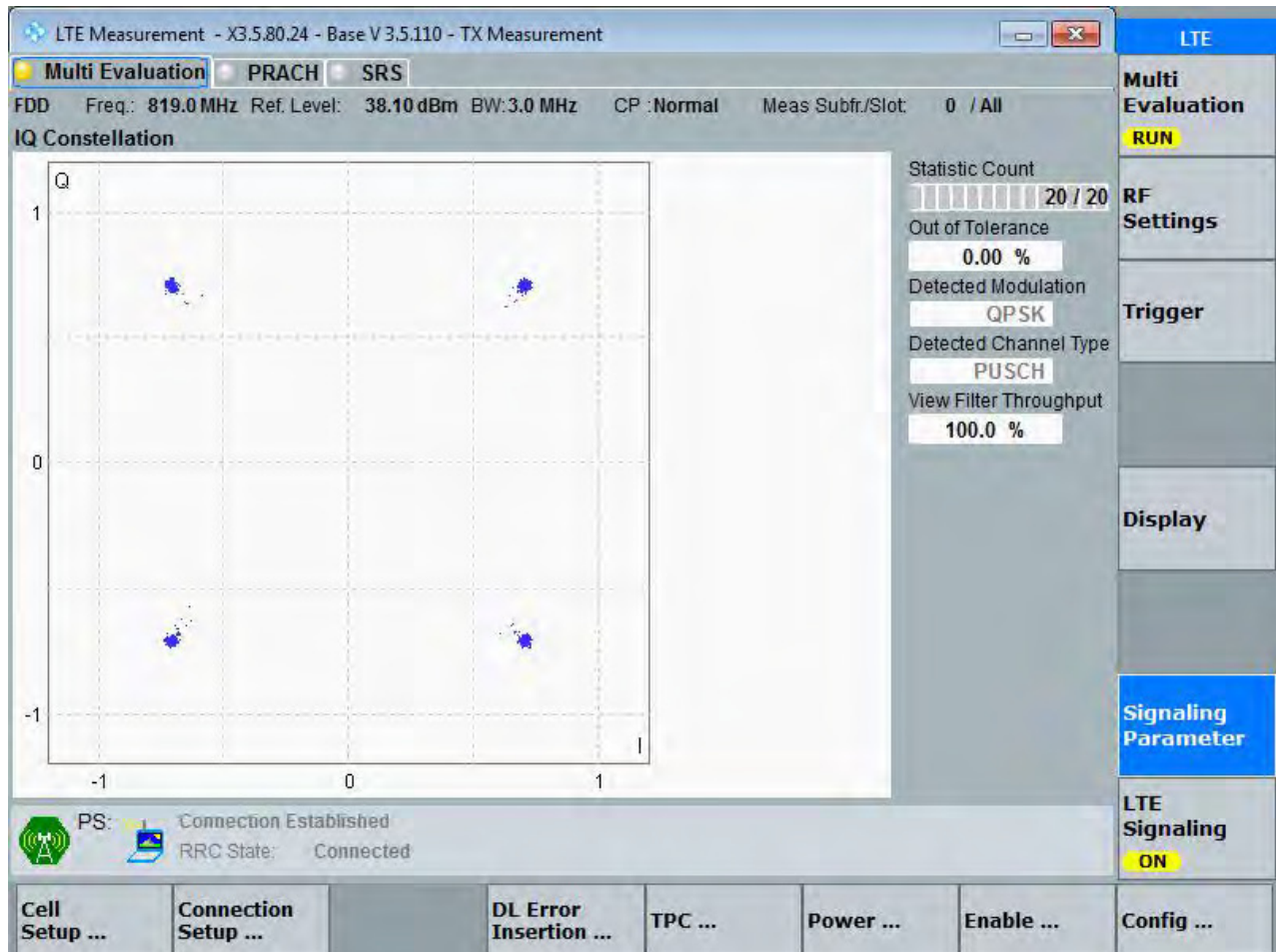
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz

3.1.1.2.1 Test Channel = MCH

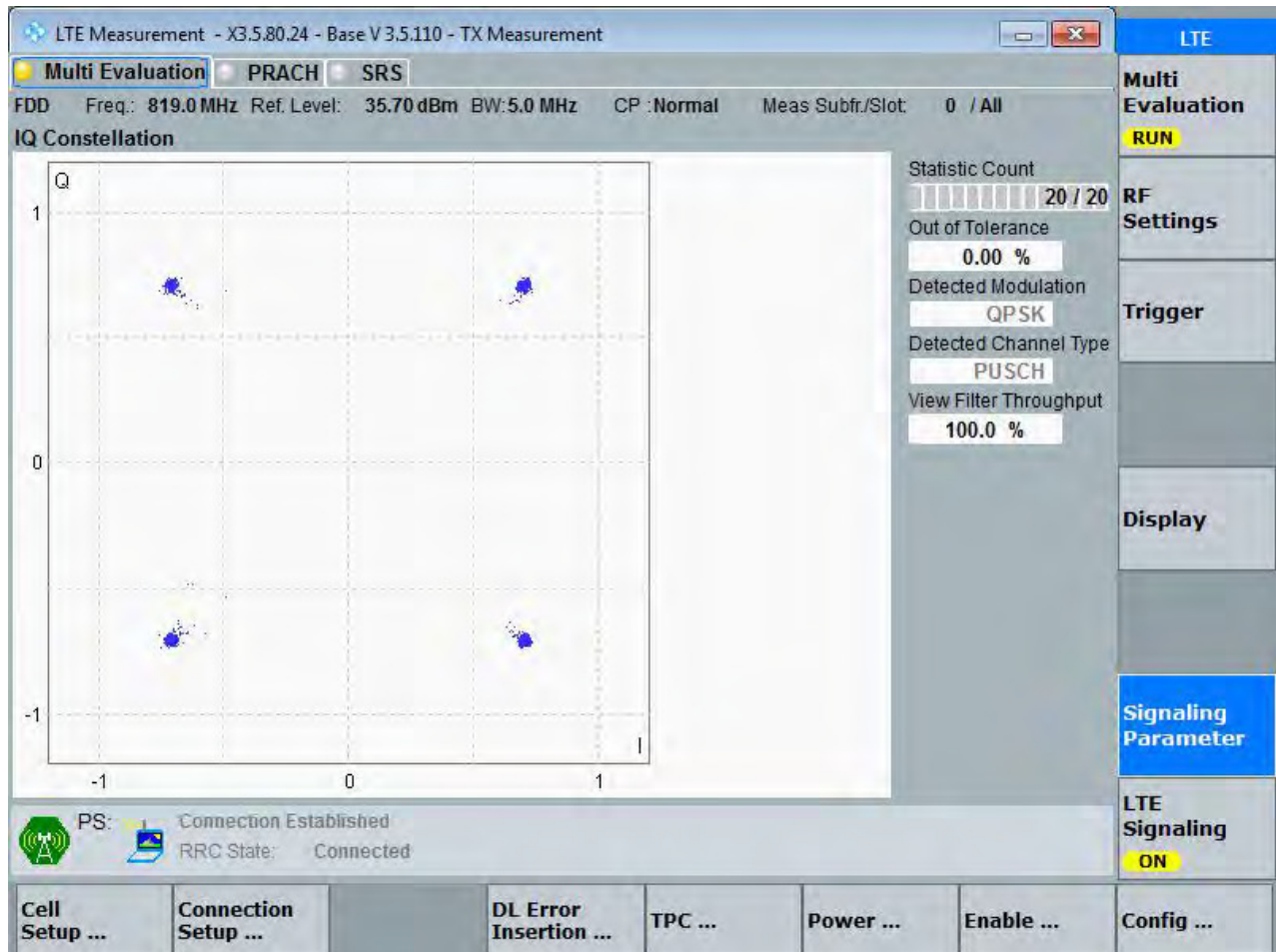


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3.1.1.3 Test Mode = LTE /TM1 5MHz

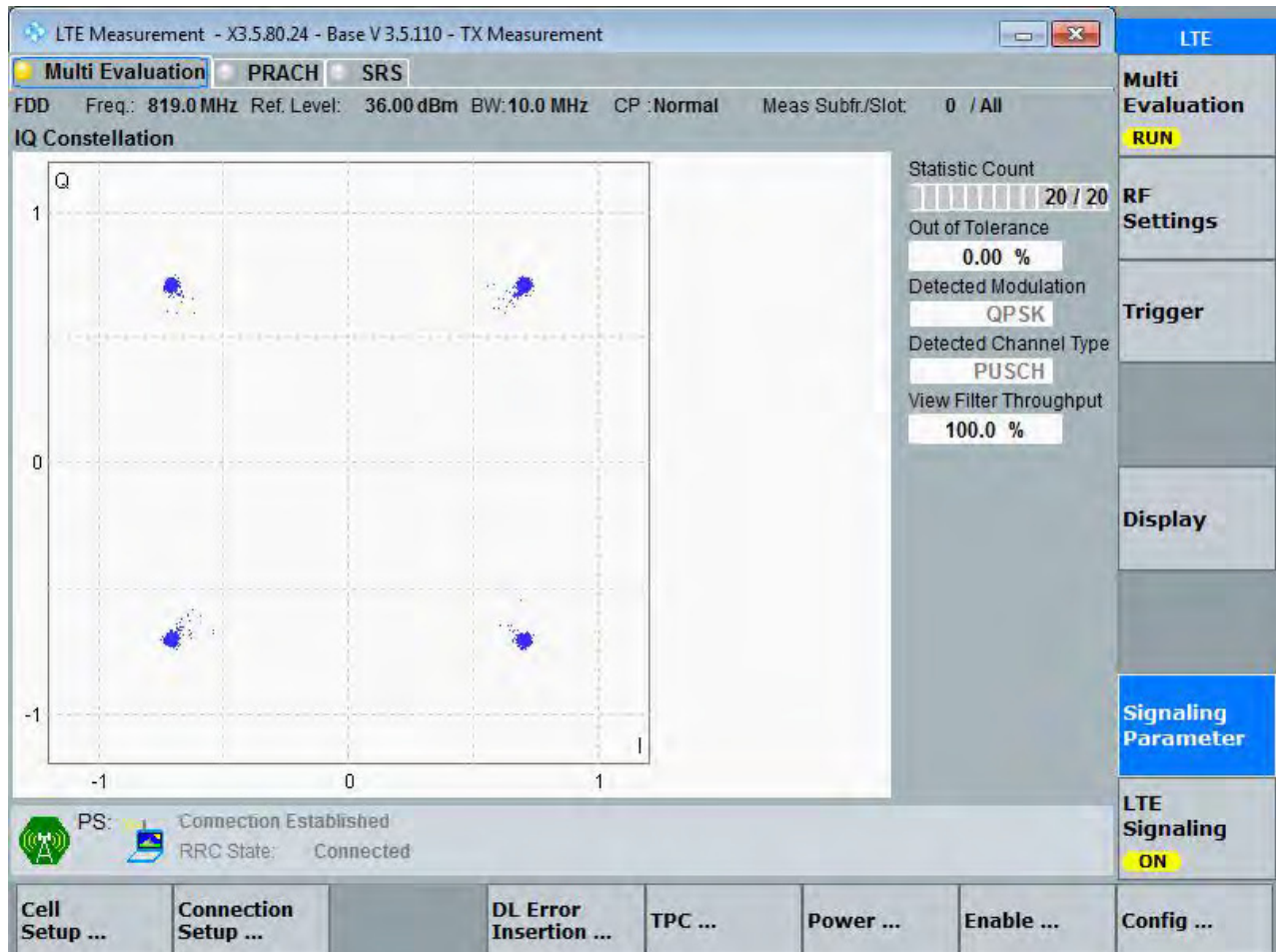
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH



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3.1.1.5 Test Mode = LTE /TM2 1.4MHz

3.1.1.5.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' 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', 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq.: 819.0 MHz', 'Ref. Level: 35.70 dBm', 'BW: 1.4 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation Plot:** A central plot showing the IQ constellation with a grid. The vertical axis is labeled 'Q' and the horizontal axis is labeled 'I', both ranging from -1 to 1. The plot shows a clear 16-QAM constellation.
- Statistic Count:** A progress bar showing '20 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A field showing '16-QAM'.
- Detected Channel Type:** A field showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- Bottom Bar:** A status bar showing 'PS: Connection Established' and 'RRC State: Connected'. Below this are several buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.6 Test Mode = LTE /TM2 3MHz

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 and sub-tabs for "PRACH" and "SRS". The interface shows the following details:

- Measurement Parameters:** FDD, Freq.: 819.0 MHz, Ref. Level: 38.10 dBm, BW: 3.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All.
- IQ Constellation:** A scatter plot showing 16-QAM modulation with points clustered around a grid. The axes are labeled "Q" (vertical) and "I" (horizontal), ranging from -1 to 1.
- Statistic Count:** 20 / 20.
- Out of Tolerance:** 0.00 %.
- Detected Modulation:** 16-QAM.
- Detected Channel Type:** PUSCH.
- View Filter Throughput:** 100.0 %.

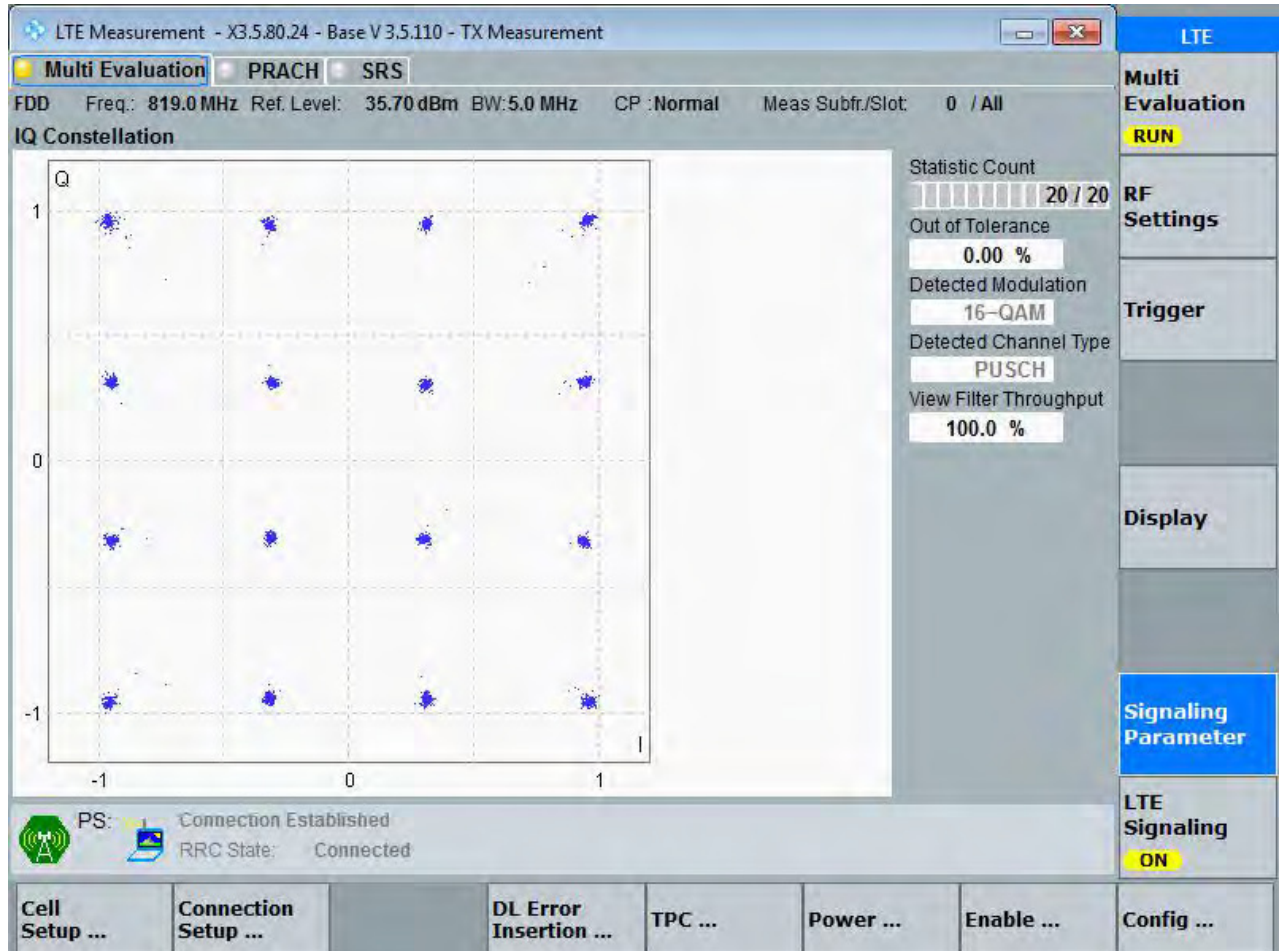
On the right side, there is a vertical toolbar with buttons for "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling ON". At the bottom, there is a status bar showing "PS: Connection Established" and "RRC State: Connected". Below the status bar are several configuration buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.7 Test Mode = LTE /TM2 5MHz

3.1.1.7.1 Test Channel = MCH

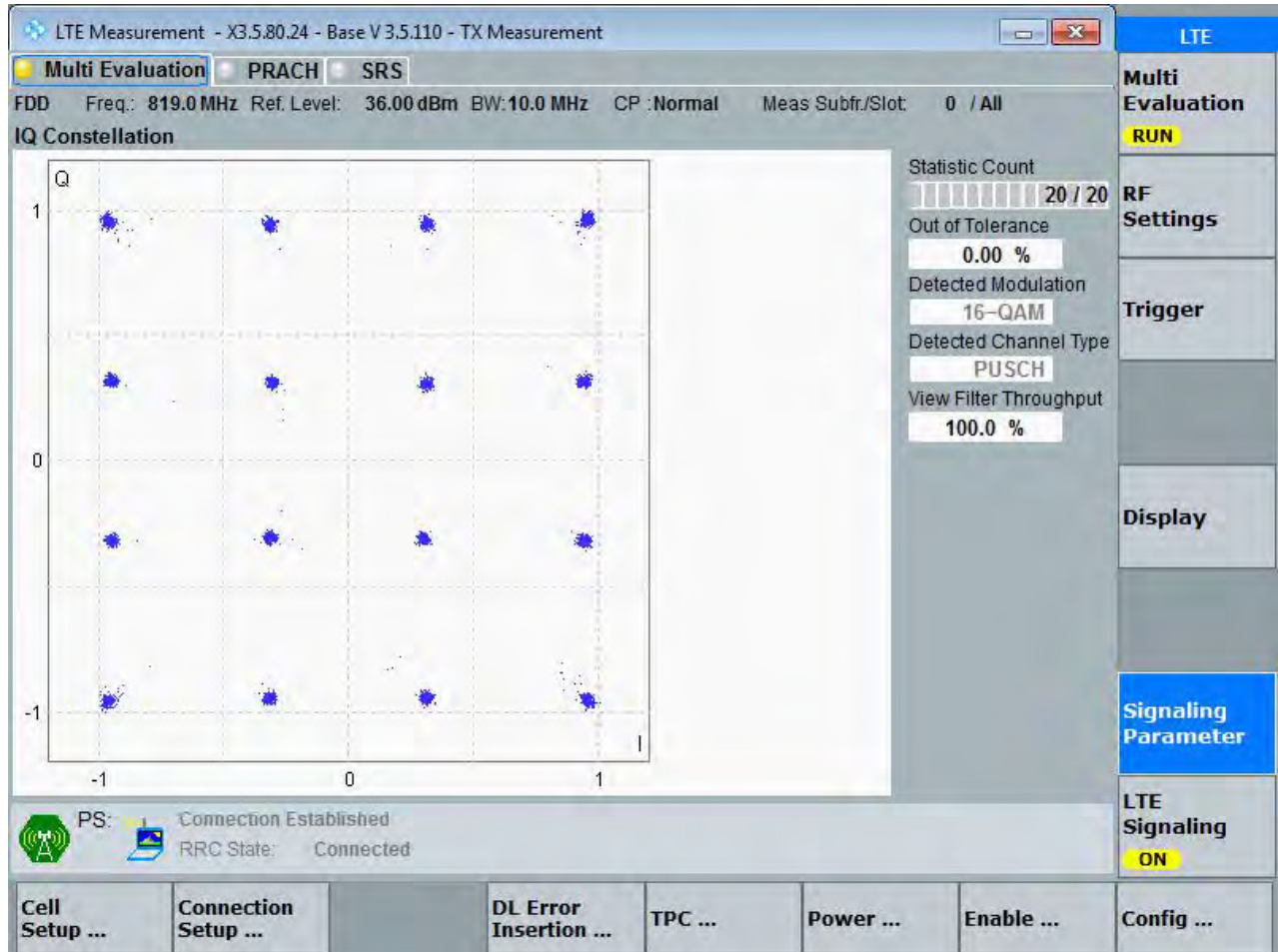


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3.1.1.8 Test Mode = LTE /TM2 10MHz

3.1.1.8.1 Test Channel = MCH



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3.1.1.9 Test Mode = LTE /TM3 1.4MHz

3.1.1.9.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window is titled 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. It features a 'Multi Evaluation' tab and sub-tabs for 'PRACH' and 'SRS'. The status bar shows 'FDD Freq: 819.0 MHz Ref. Level: 35.70 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All'. The 'IQ Constellation' plot shows a grid of points with axes ranging from -1 to 1. On the right, the 'Statistic Count' is 20/20, 'Out of Tolerance' is 0.00%, 'Detected Modulation' is 64-QAM, 'Detected Channel Type' is PUSCH, and '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'. At the bottom, a status bar shows 'PS: Connection Established' and 'RRC State: Connected'. A bottom toolbar contains buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.10 Test Mode = LTE /TM3 3MHz

3.1.1.10.1 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:

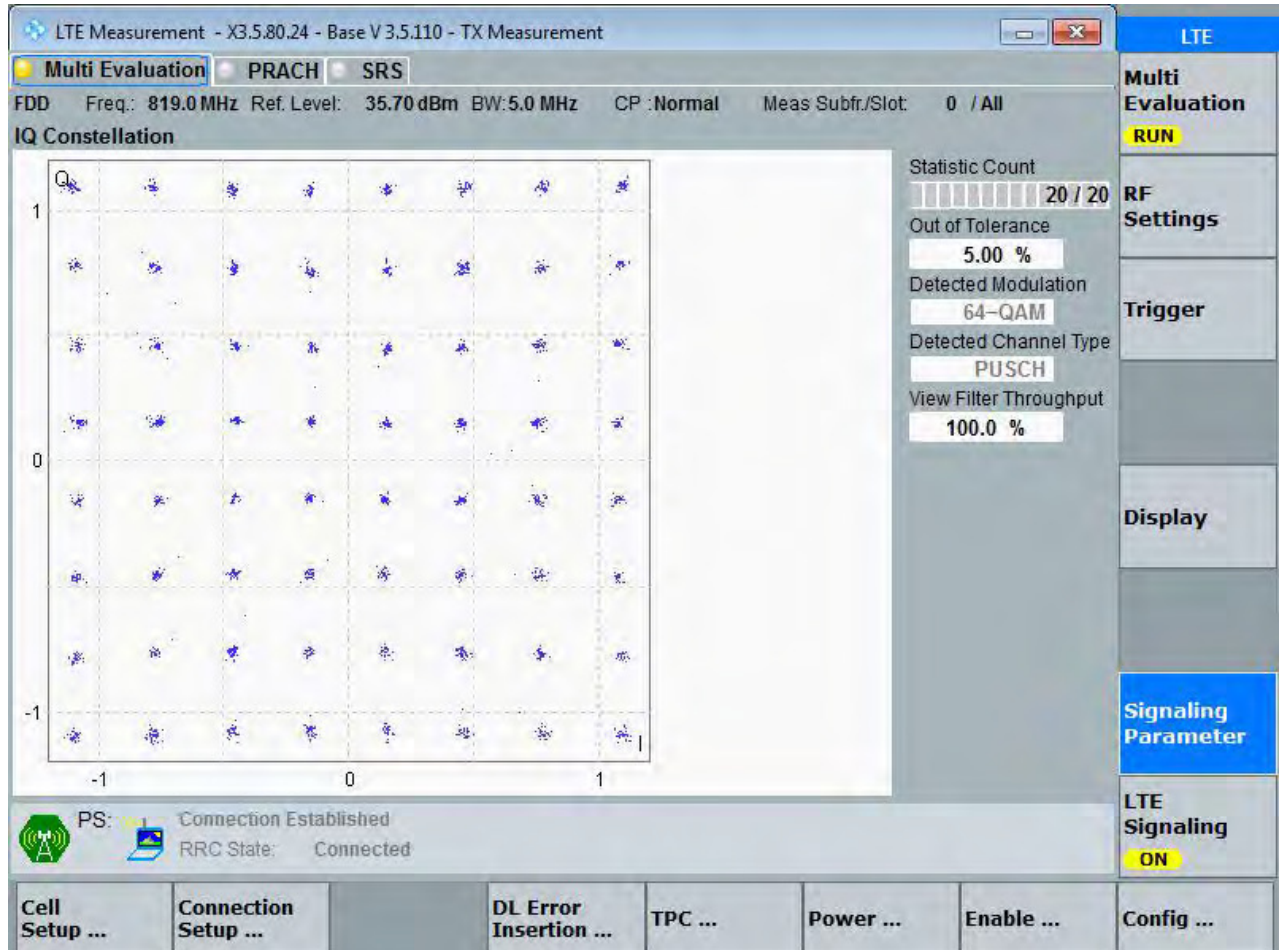
- Multi Evaluation:** Includes tabs for 'PRACH' and 'SRS'. Below these, it shows 'FDD', 'Freq.: 819.0 MHz', 'Ref. Level: 38.10 dBm', 'BW: 3.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing a grid of constellation points. The vertical axis is labeled 'Q' and the horizontal axis is labeled 'I', both ranging from -1 to 1.
- Statistic Count:** A progress bar showing '20 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A field showing '64-QAM'.
- Detected Channel Type:** A field showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right-Handed Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- 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 ...'.

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3.1.1.11 Test Mode = LTE /TM3 5MHz

3.1.1.11.1 Test Channel = MCH



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3.1.1.12 Test Mode = LTE /TM3 10MHz

3.1.1.12.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" sub-tab. The interface shows the following details:

- Measurement Parameters:** FDD, Freq: 819.0 MHz, Ref. Level: 36.00 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All.
- IQ Constellation:** A scatter plot showing a 64-QAM constellation with points distributed in a grid. The axes are labeled from -1 to 1.
- Statistic Count:** 20 / 20.
- Out of Tolerance:** 0.00 %.
- Detected Modulation:** 64-QAM.
- Detected Channel Type:** PUSCH.
- View Filter Throughput:** 100.0 %.

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

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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 26 (814-824)	TM1/1.4MHz	LCH	1.09	1.25	PASS
		MCH	1.09	1.24	PASS
		HCH	1.10	1.23	PASS
	TM2/1.4MHz	LCH	1.09	1.23	PASS
		MCH	1.09	1.25	PASS
		HCH	1.10	1.23	PASS
	TM3/1.4MHz	LCH	1.10	1.26	PASS
		MCH	1.09	1.23	PASS
		HCH	1.09	1.24	PASS
	TM1/ 3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.94	PASS
		HCH	2.69	2.94	PASS
	TM2/3MHz	LCH	2.69	2.95	PASS
		MCH	2.69	2.95	PASS
		HCH	2.68	2.93	PASS
	TM3/3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.94	PASS
		HCH	2.68	2.90	PASS
	TM1/ 5MHz	LCH	4.49	4.91	PASS
		MCH	4.49	4.91	PASS
		HCH	4.47	4.88	PASS
	TM2/ 5MHz	LCH	4.49	4.91	PASS
		MCH	4.48	4.87	PASS
		HCH	4.48	4.92	PASS
	TM3/5MHz	LCH	4.48	4.91	PASS
		MCH	4.48	4.90	PASS
		HCH	4.48	4.86	PASS
TM1/10MHz	LCH	/	/	PASS	
	MCH	8.95	9.66	PASS	
	HCH	/	/	PASS	
TM2/ 10MHz	LCH	/	/	PASS	
	MCH	8.93	9.57	PASS	
	HCH	/	/	PASS	
TM3/ 10MHz	LCH	/	/	PASS	
	MCH	8.93	9.63	PASS	
	HCH	/	/	PASS	

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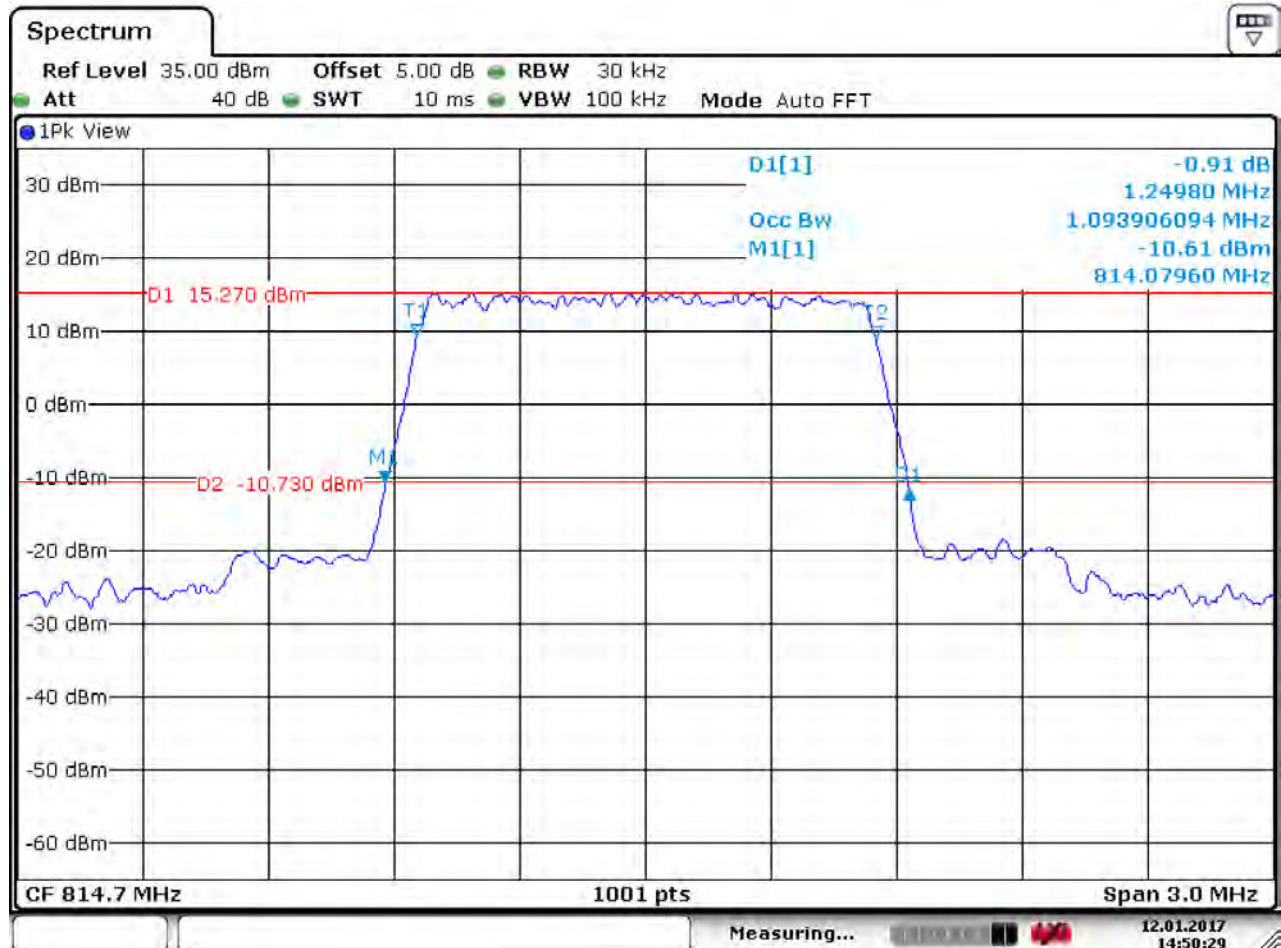


4.1 For LTE

4.1.1 Test Band = LTE band26(814-824)

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

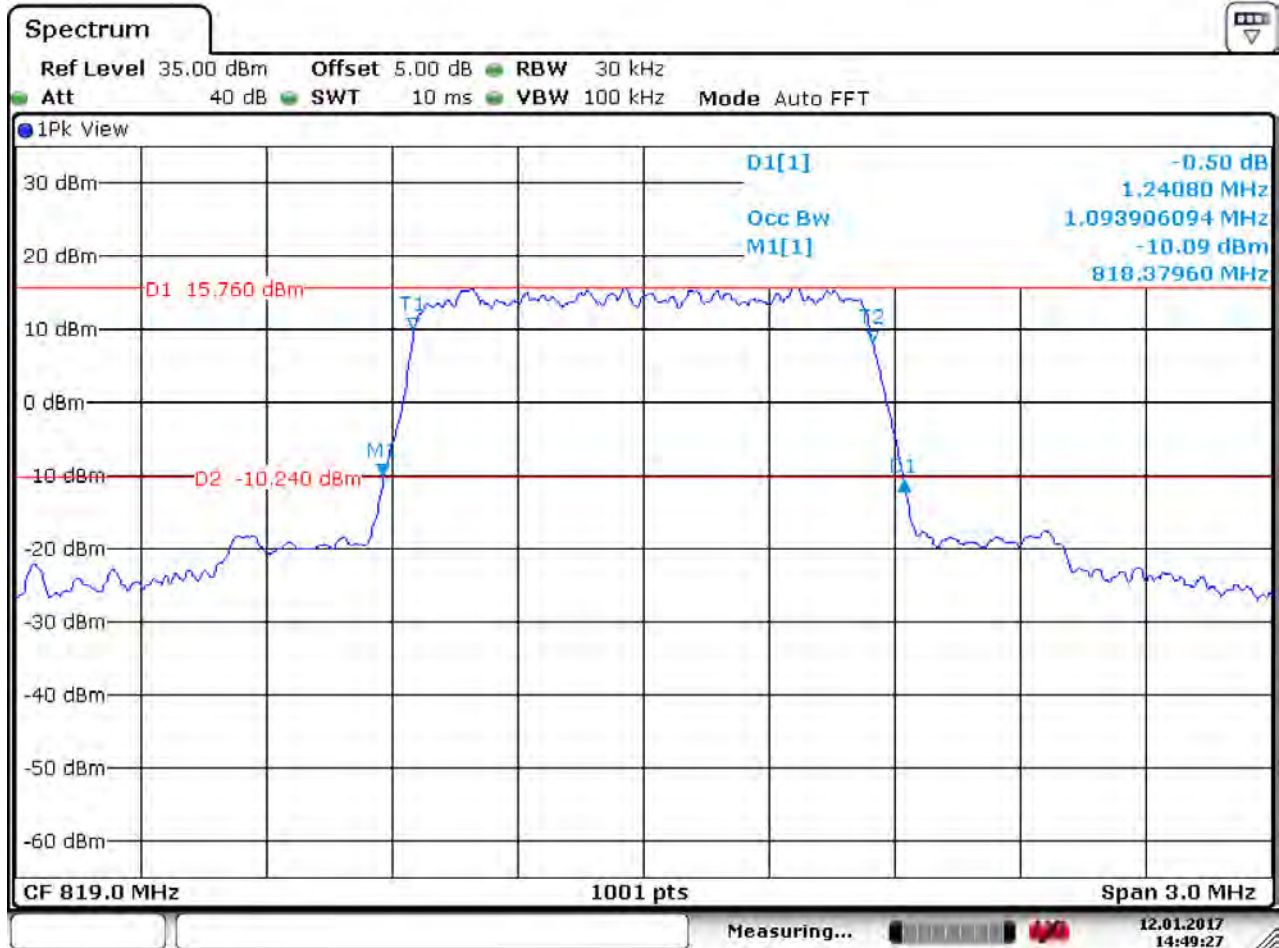
4.1.1.1.1 Test Channel = LCH



Date: 12.JAN.2017 14:50:29



4.1.1.1.2 Test Channel = MCH

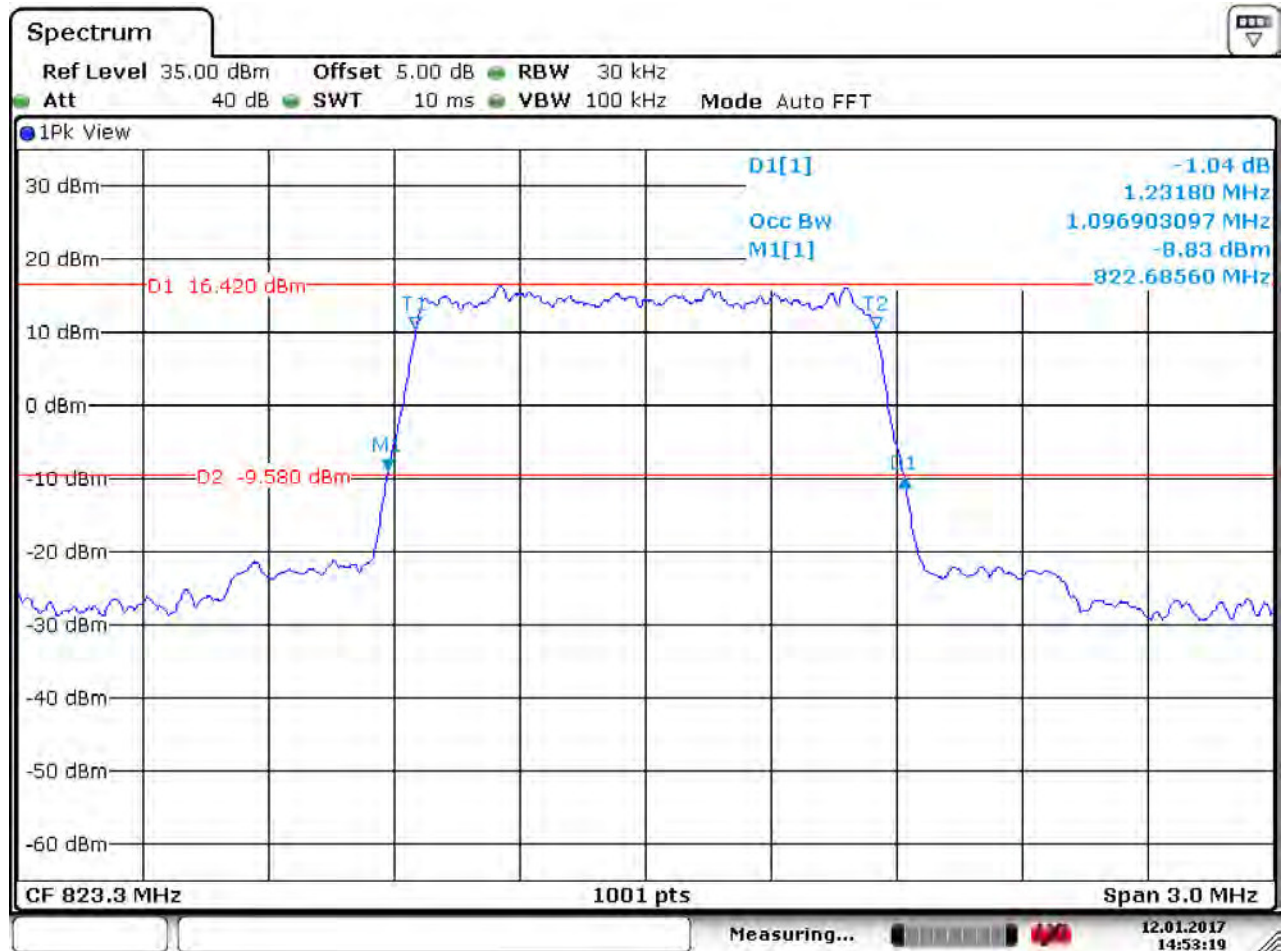


Date: 12.JAN.2017 14:49:27

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4.1.1.1.3 Test Channel = HCH



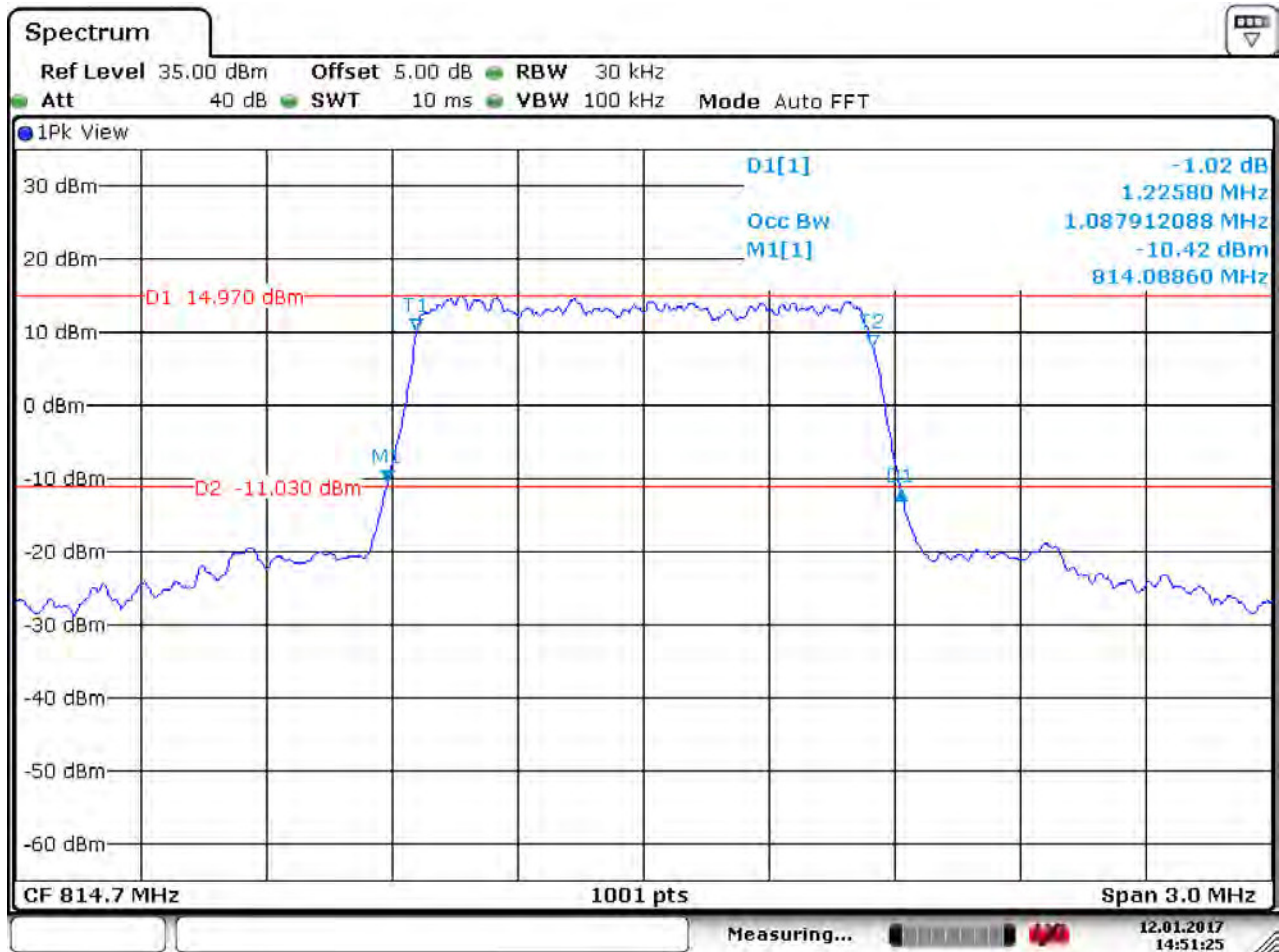
Date: 12.JAN.2017 14:53:20

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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

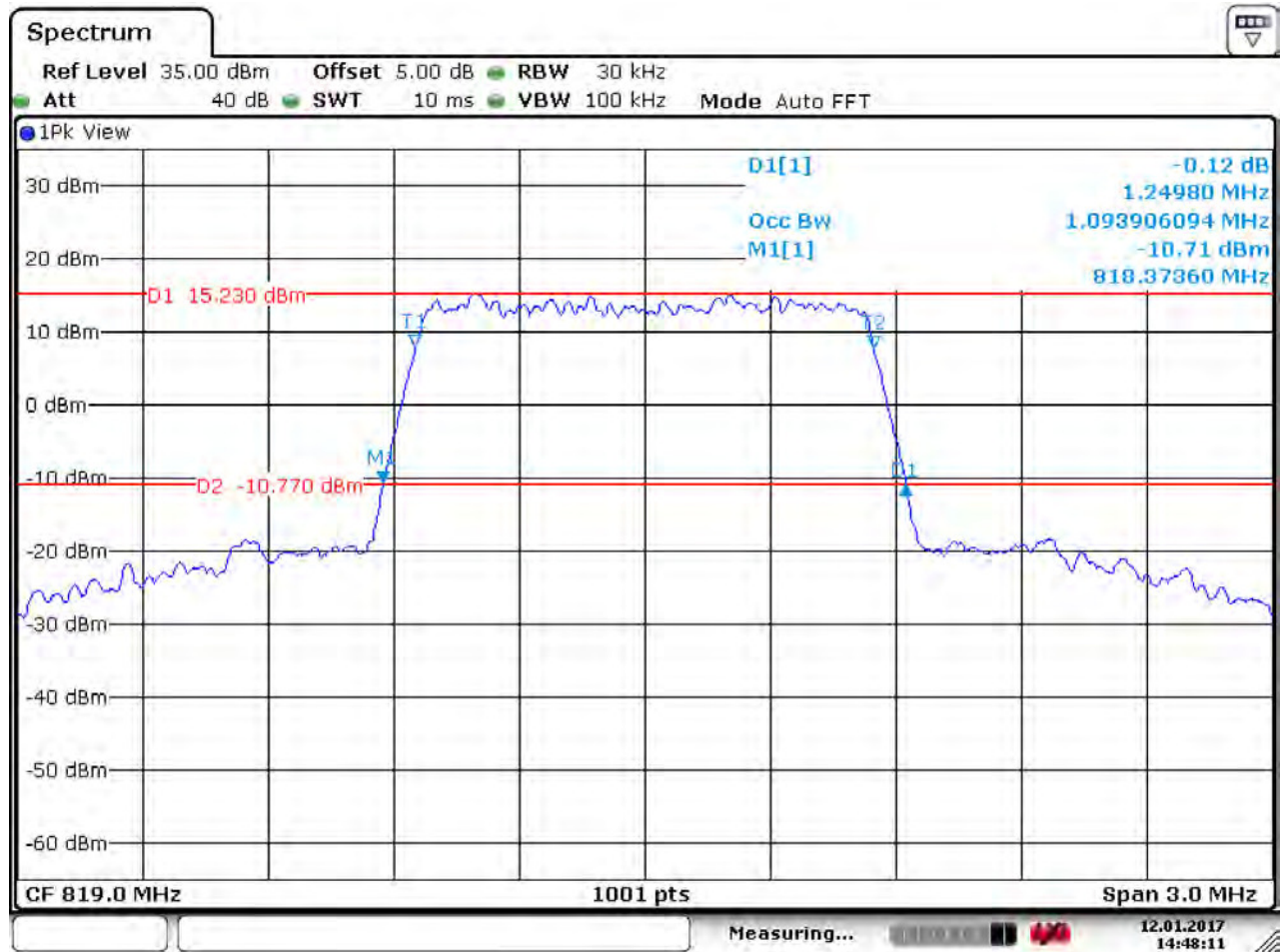


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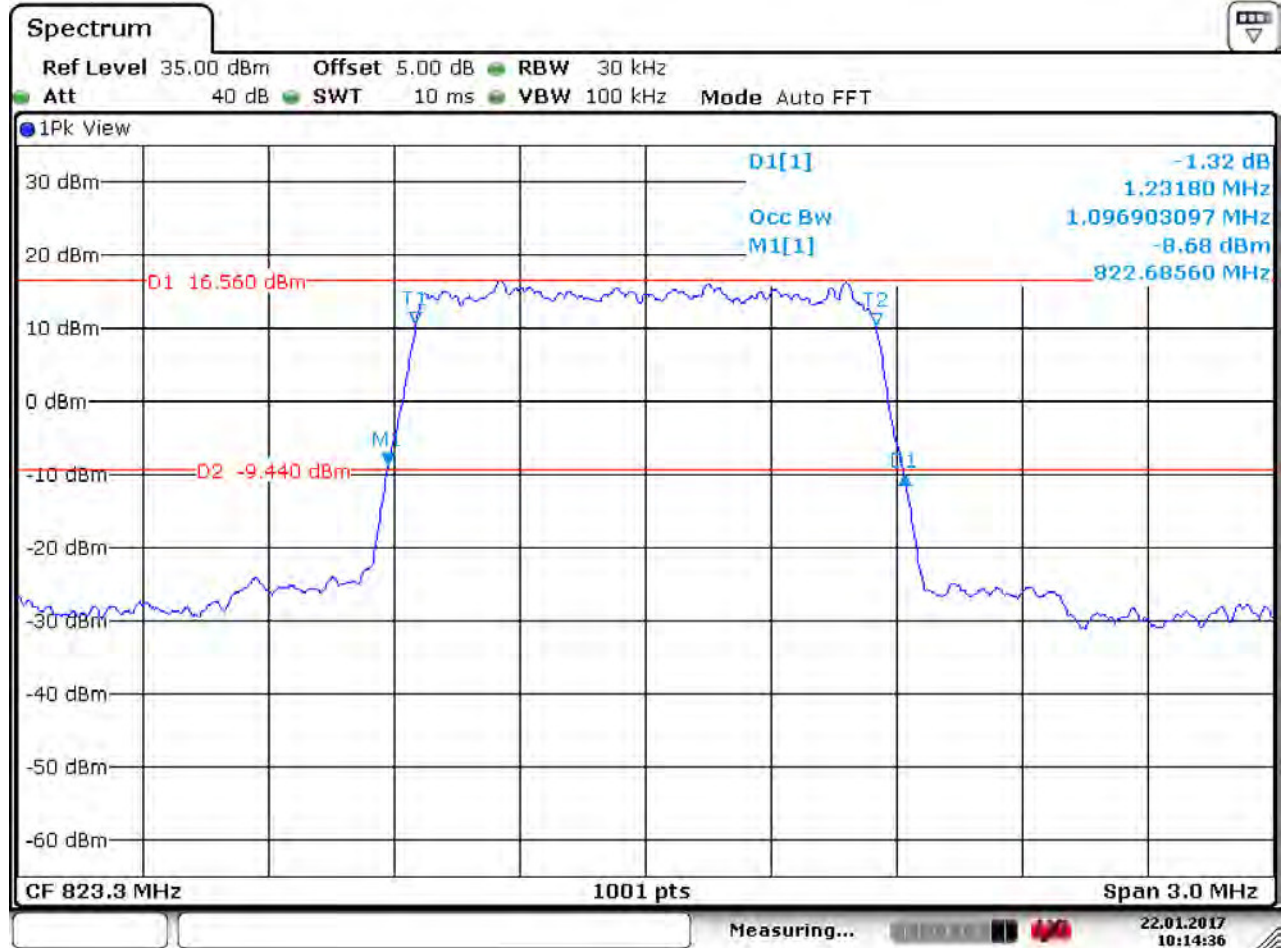
4.1.1.2.2 Test Channel = MCH



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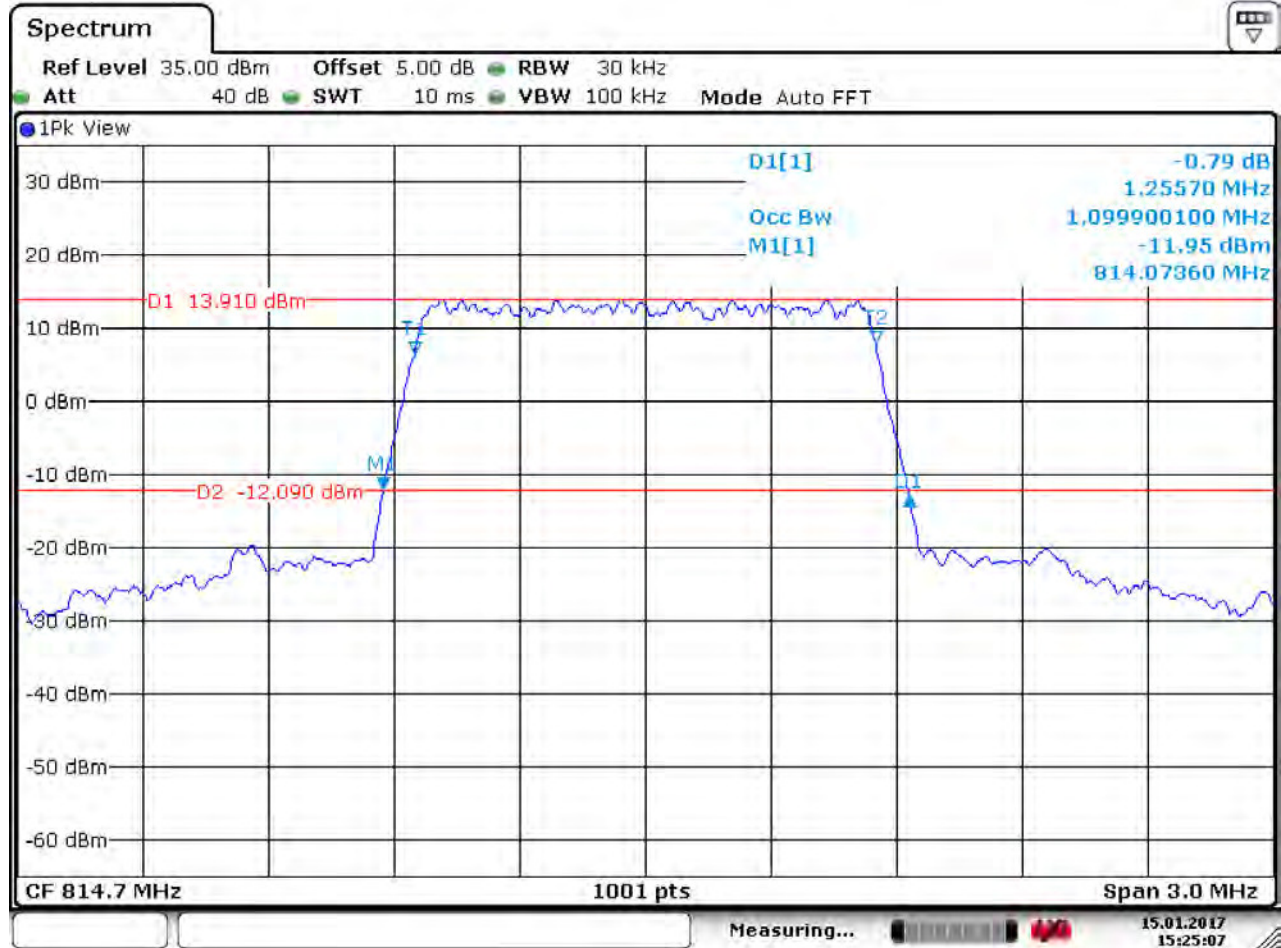
4.1.1.2.3 Test Channel = HCH



Date: 22.JAN.2017 10:14:36

4.1.1.3 Test Mode = LTE/TM3 1.4MHz

4.1.1.3.1 Test Channel = LCH

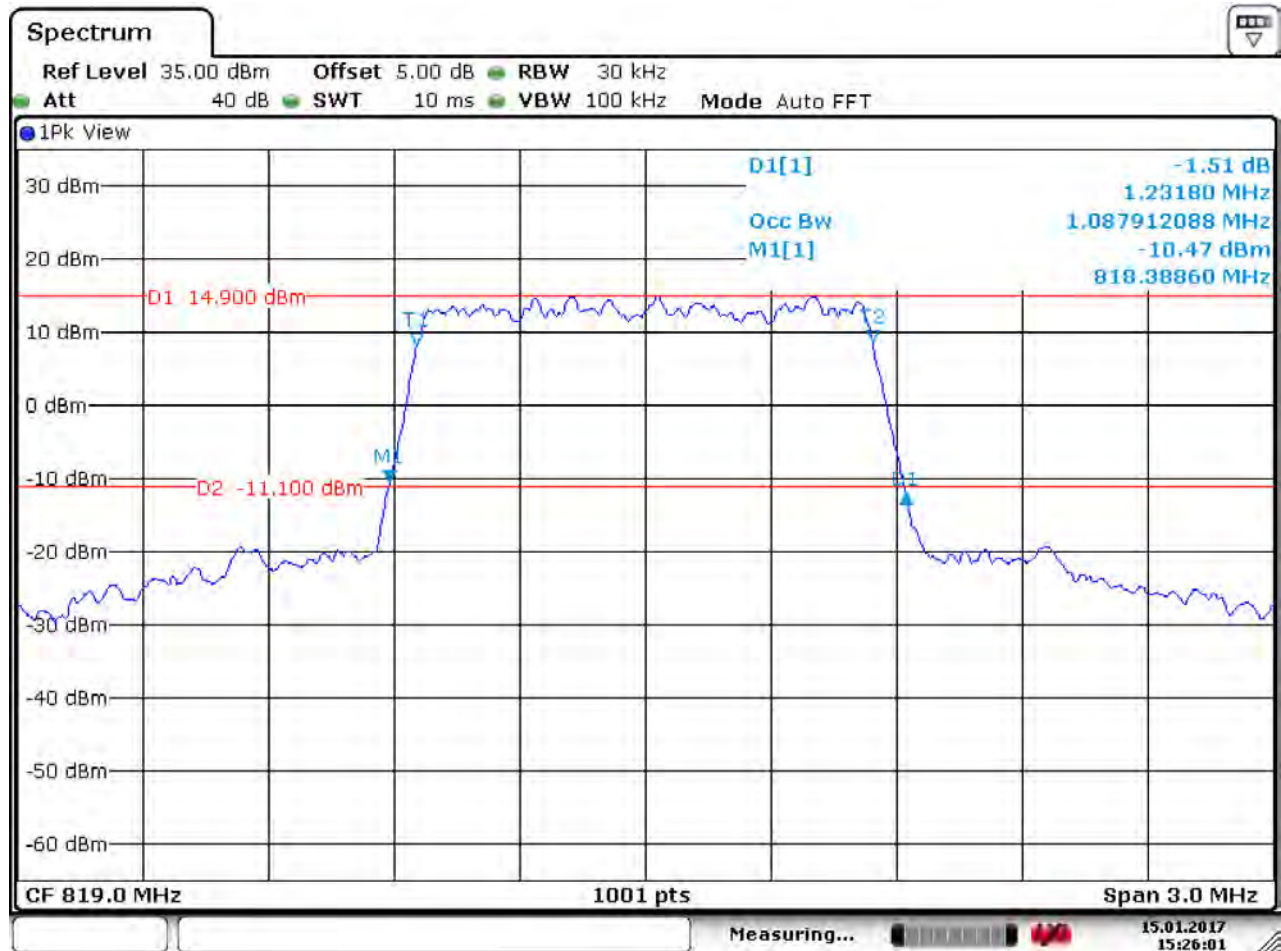


Date: 15.JAN.2017 15:25:08

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4.1.1.3.2 Test Channel = MCH

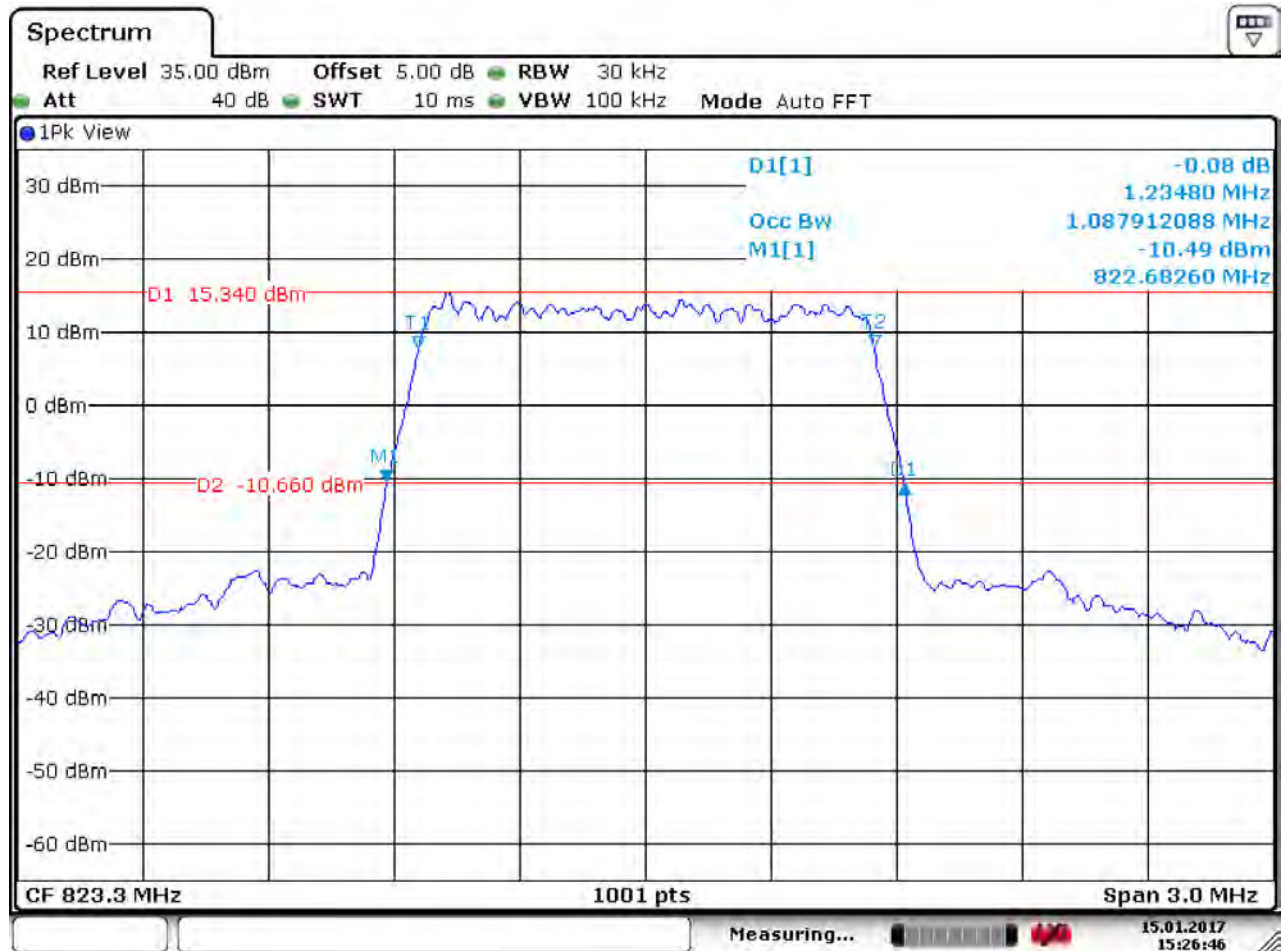


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4.1.1.3.3 Test Channel = HCH



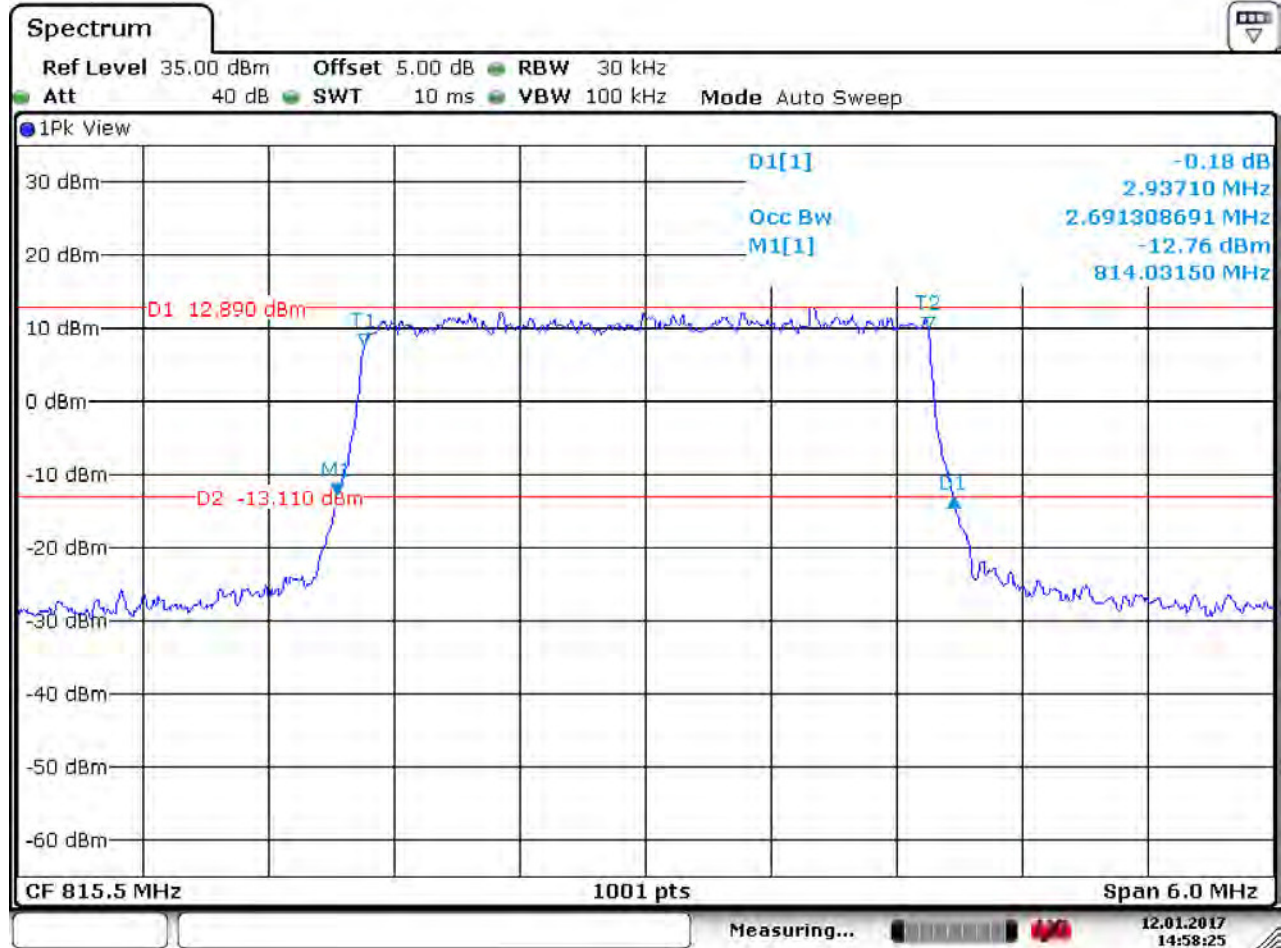
Date: 15.JAN.2017 15:26:46

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4.1.1.4 Test Mode = LTE/TM1 3MHz

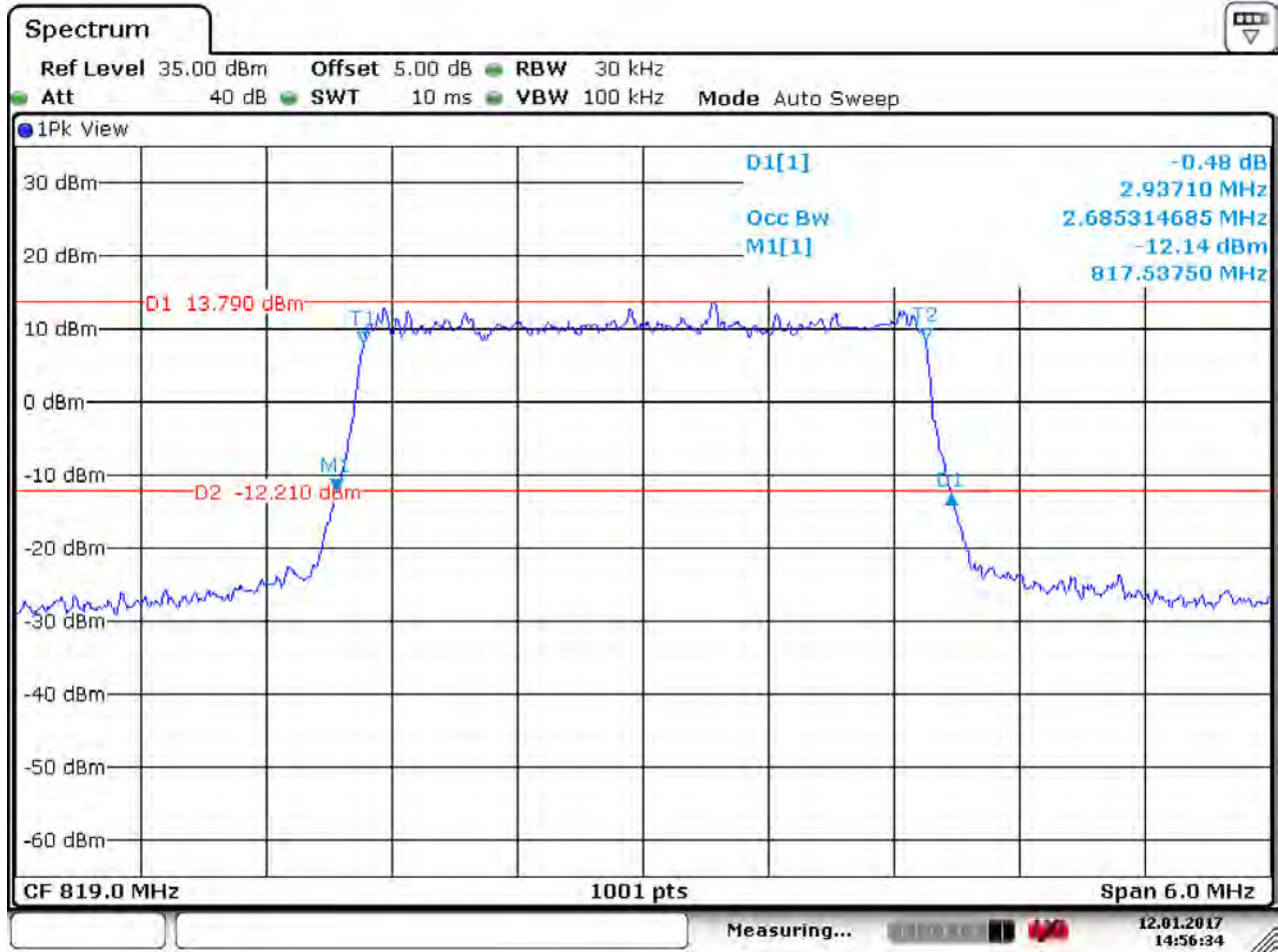
4.1.1.4.1 Test Channel = LCH



Date: 12.JAN.2017 14:58:26



4.1.1.4.2 Test Channel = MCH

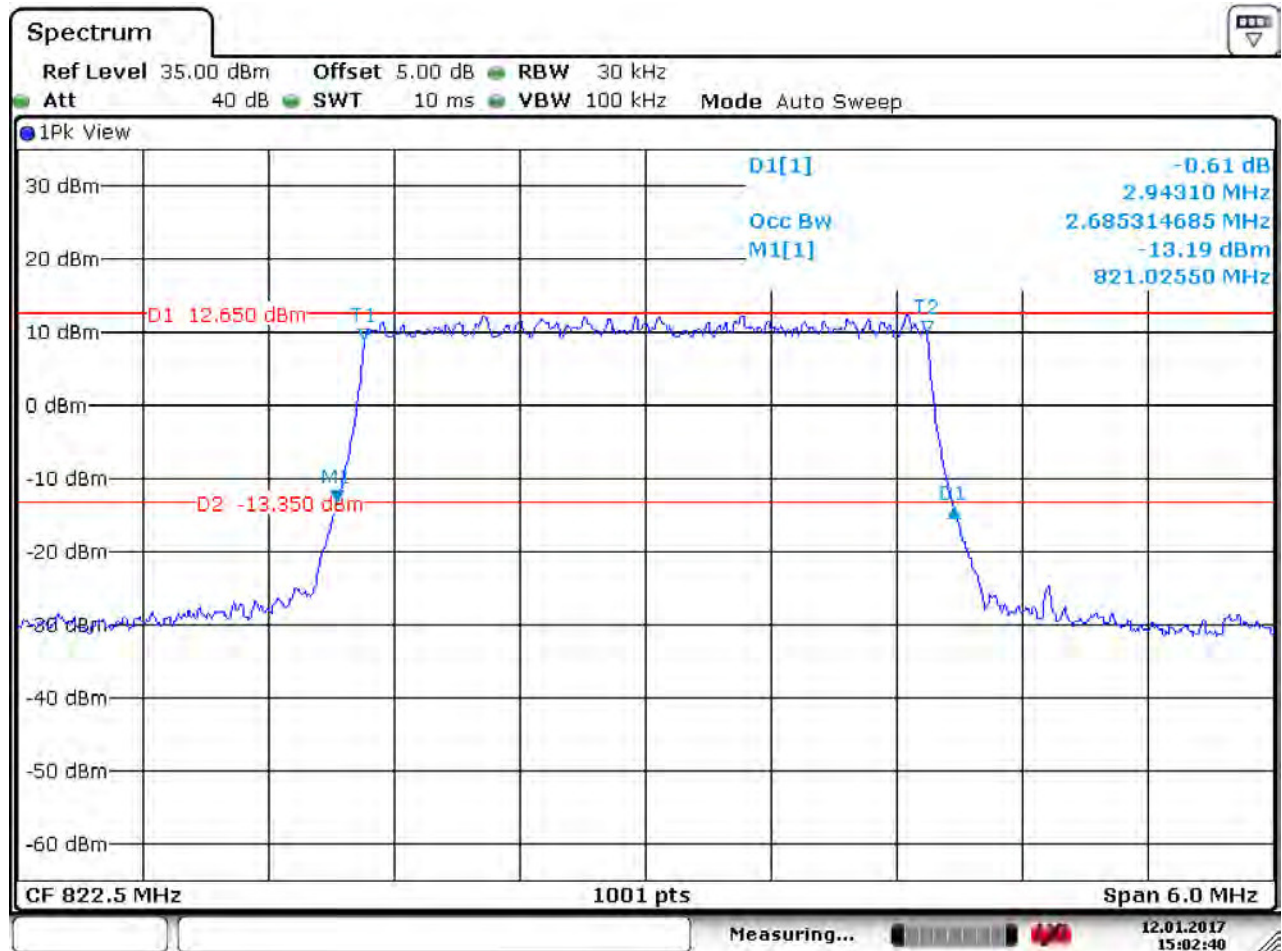


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4.1.1.4.3 Test Channel = HCH



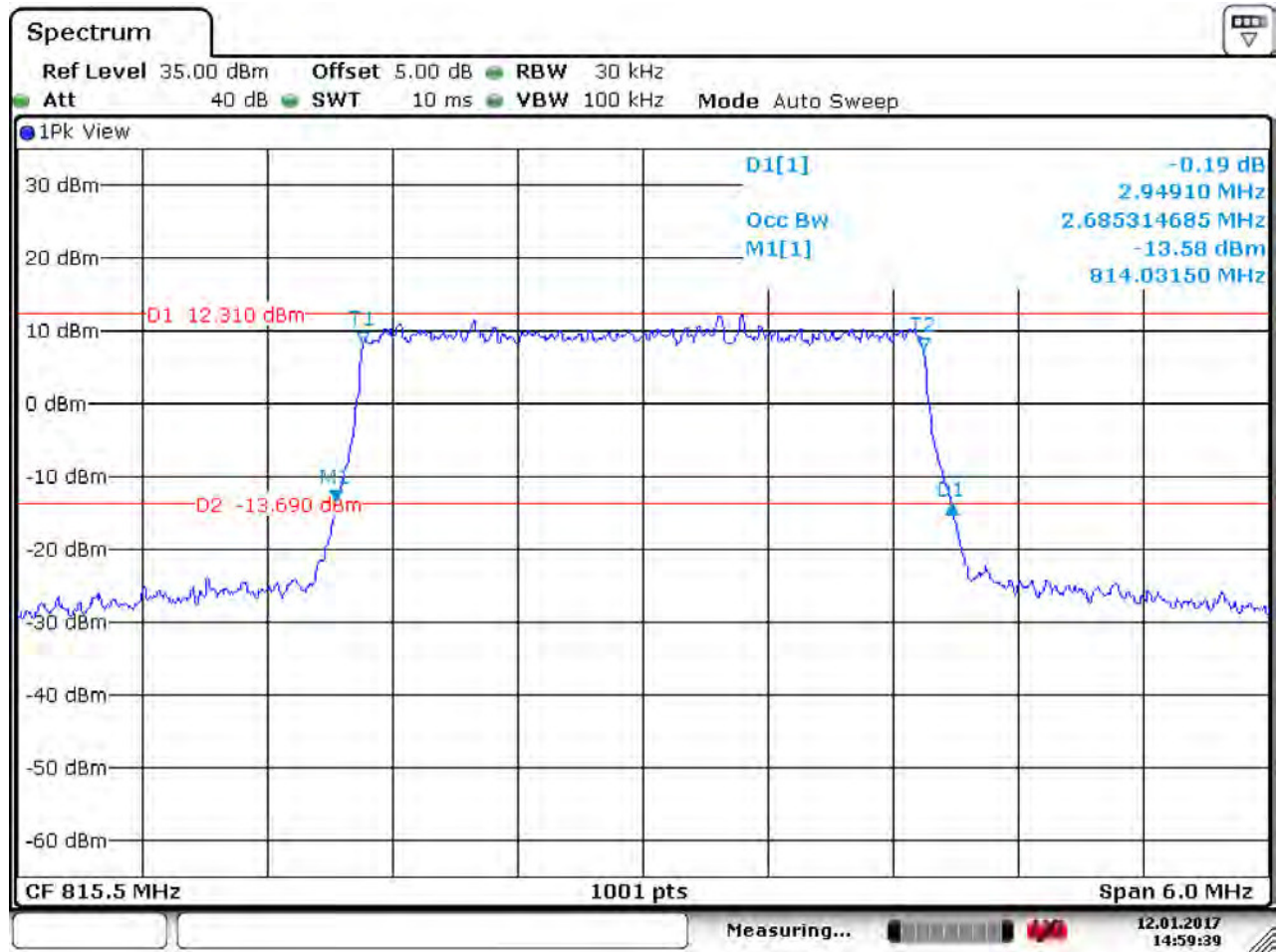
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4.1.1.5 Test Mode = LTE/TM2 3MHz

4.1.1.5.1 Test Channel = LCH

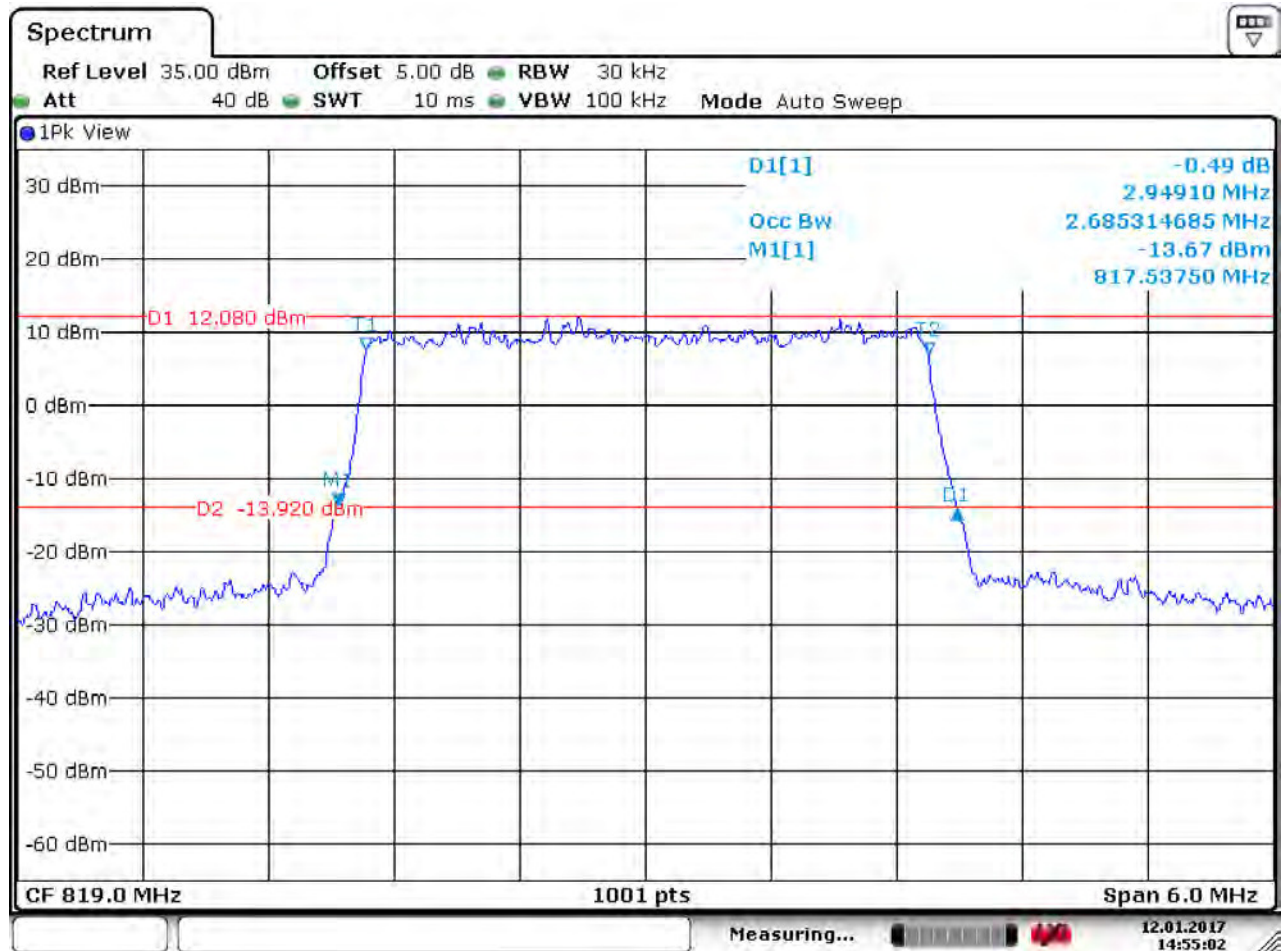


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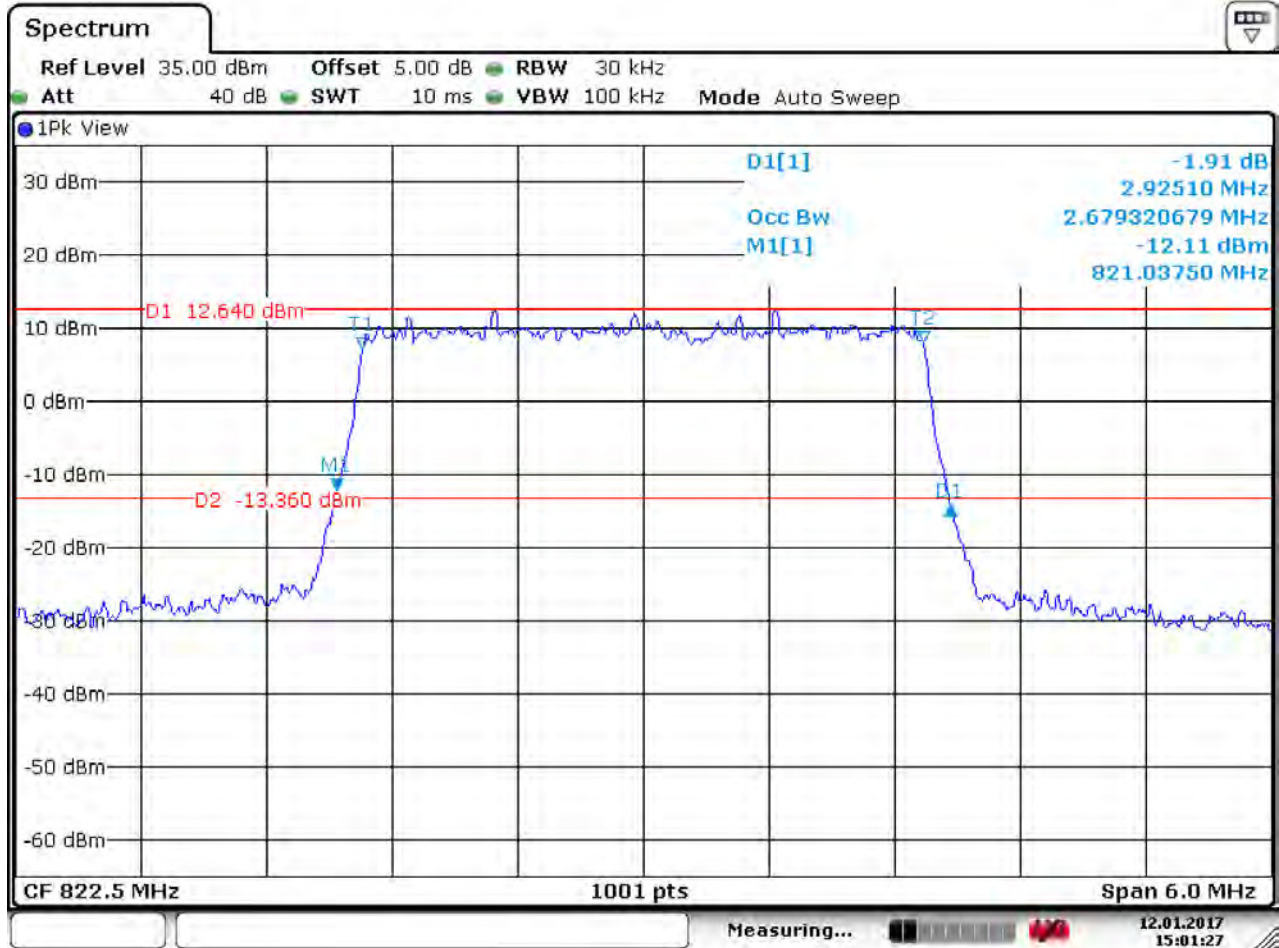
4.1.1.5.2 Test Channel = MCH



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4.1.1.5.3 Test Channel = HCH

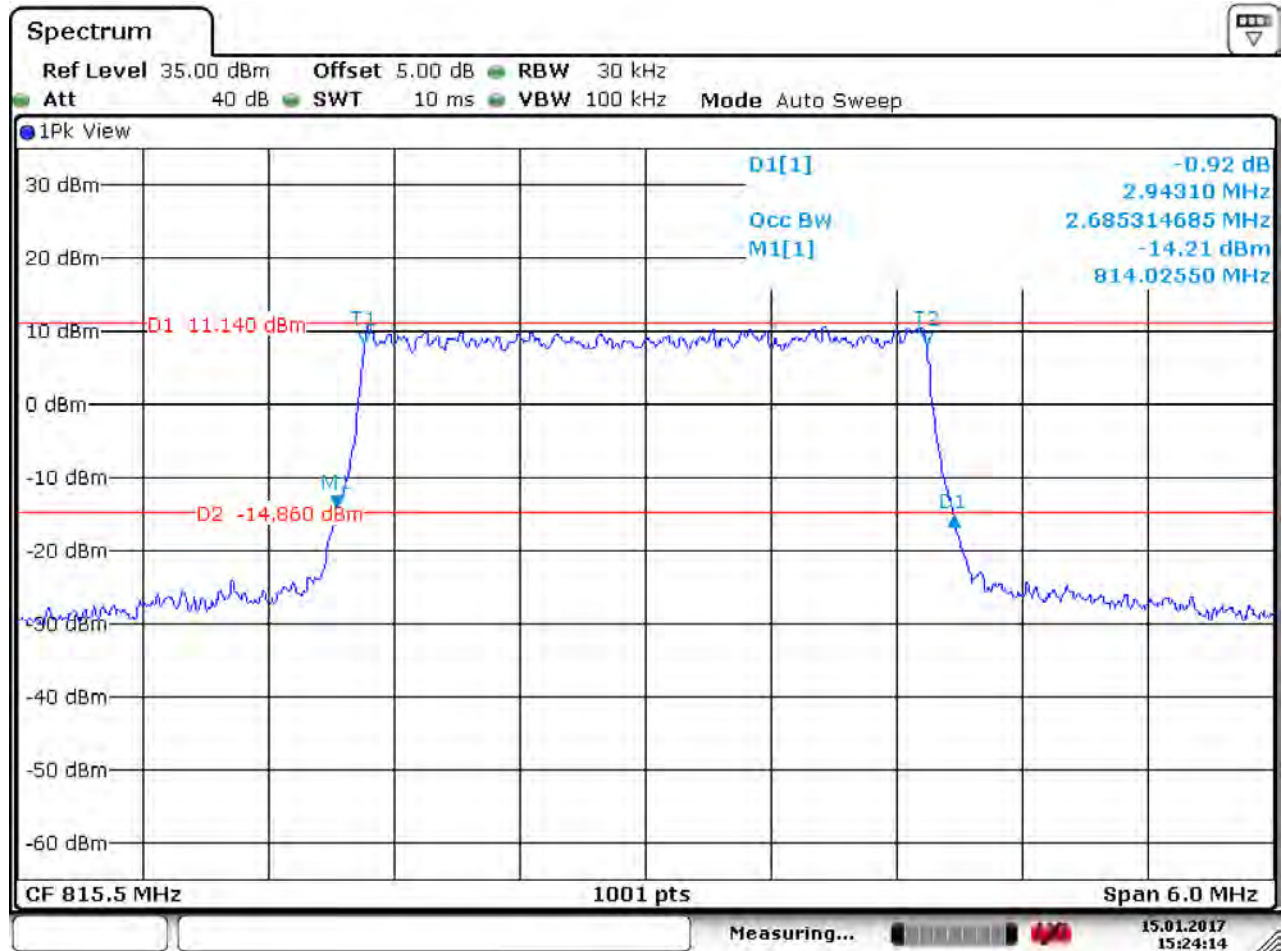


Date: 12.JAN.2017 15:01:27



4.1.1.6 Test Mode = LTE/TM3 3MHz

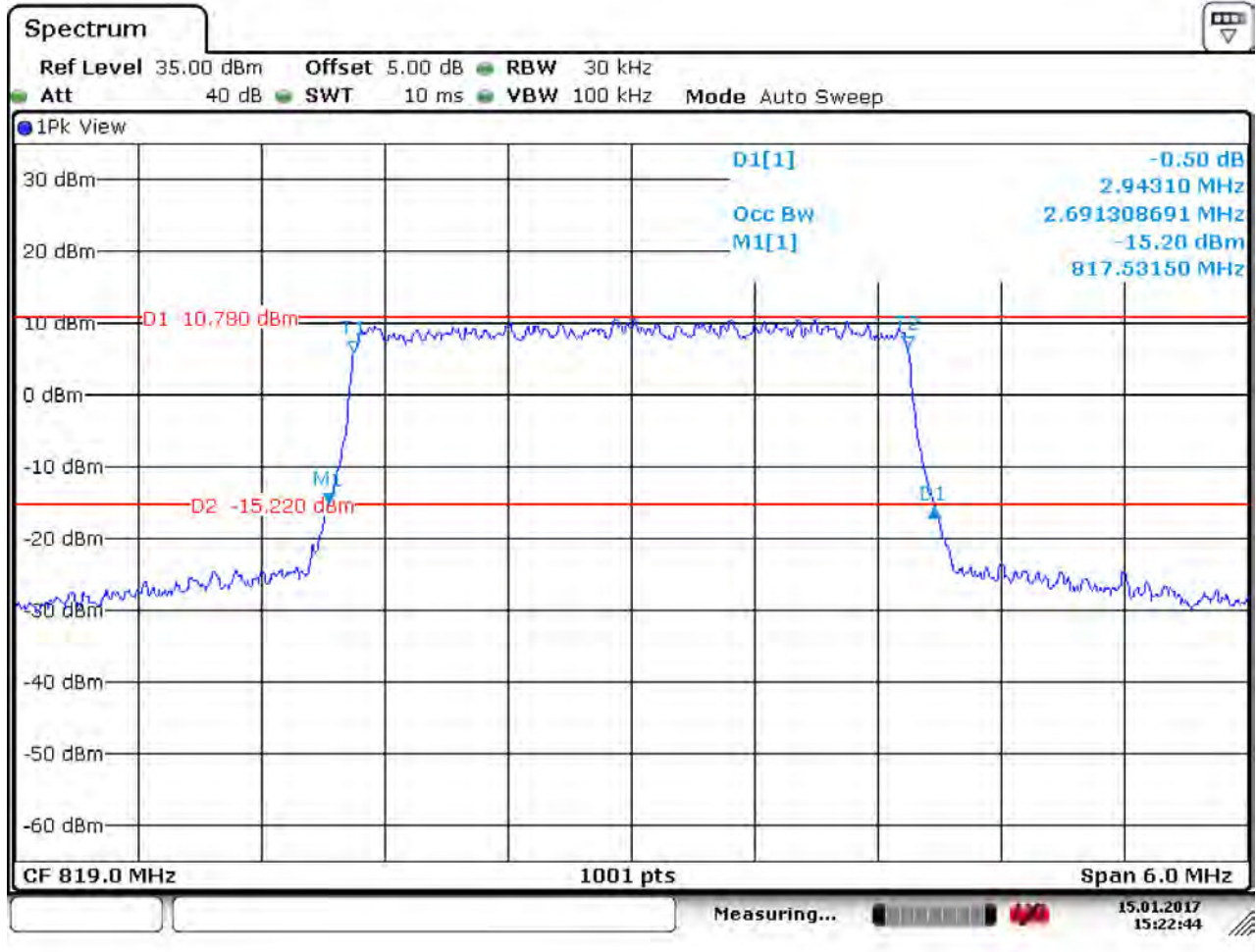
4.1.1.6.1 Test Channel = LCH



Date: 15.JAN.2017 15:24:14



4.1.1.6.2 Test Channel =MCH

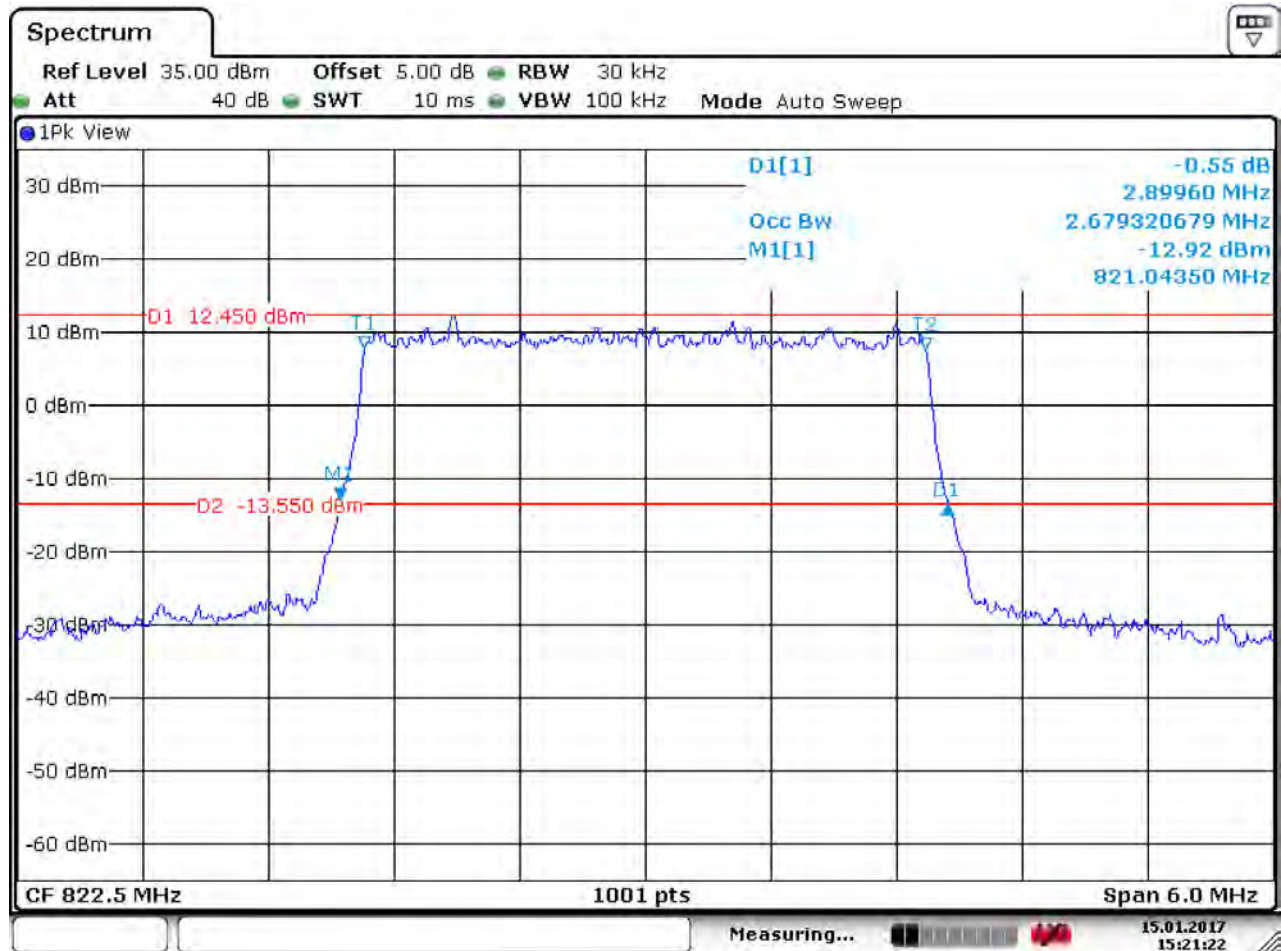


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4.1.1.6.3 Test Channel = HCH



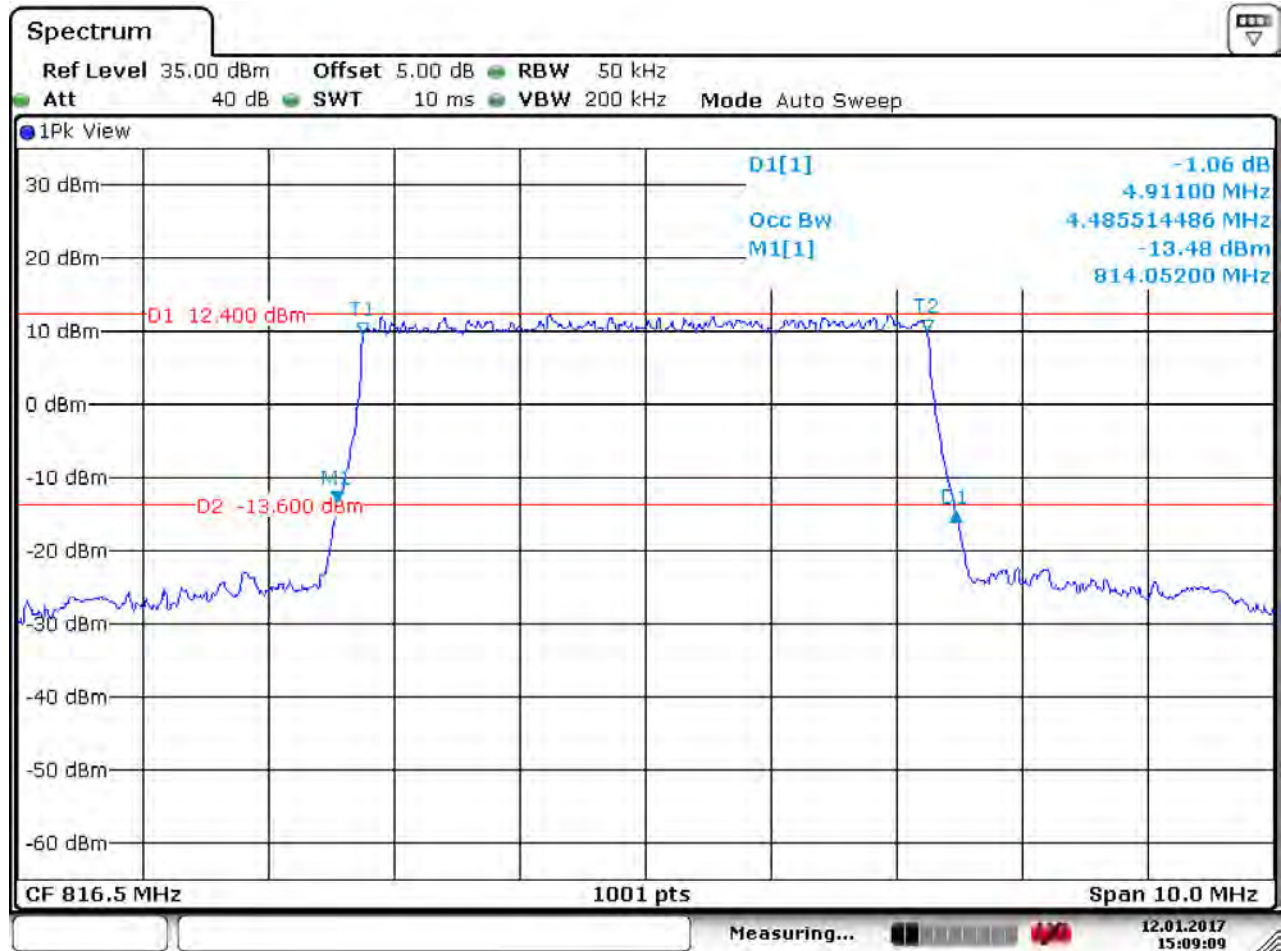
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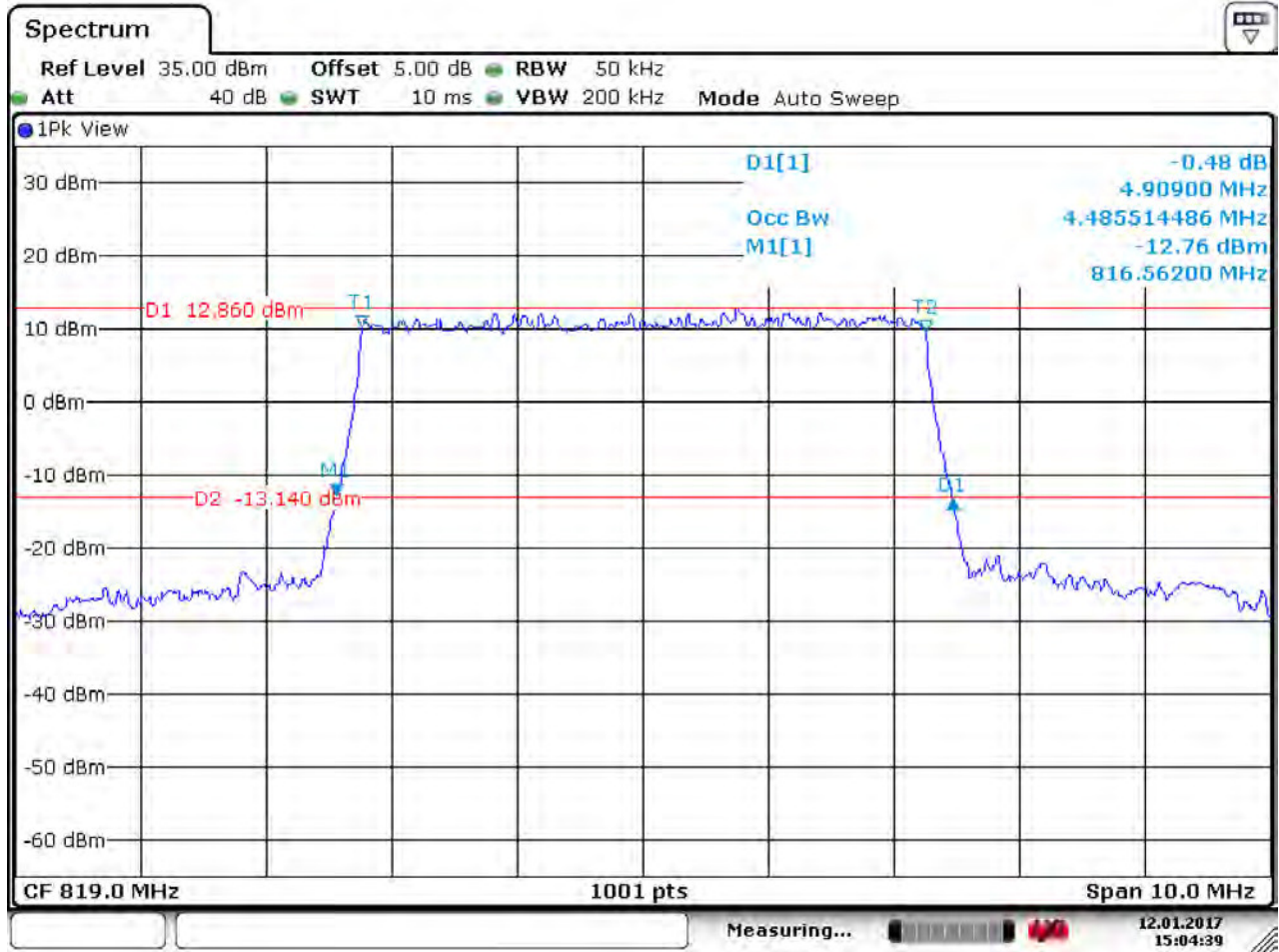
4.1.1.7 Test Mode = LTE/TM1 5MHz

4.1.1.7.1 Test Channel = LCH



Date: 12.JAN.2017 15:09:09

4.1.1.7.2 Test Channel = MCH

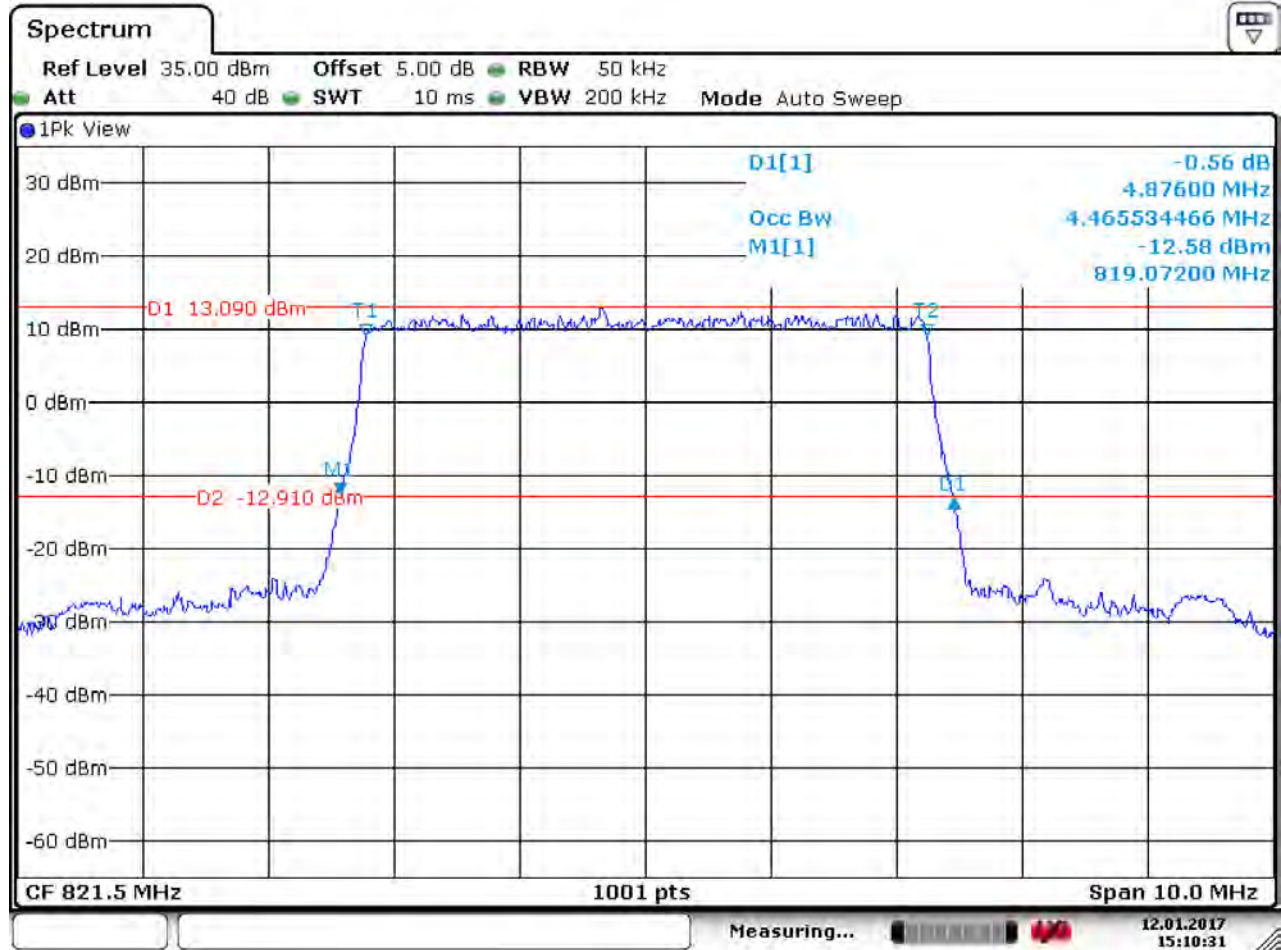


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4.1.1.7.3 Test Channel = HCH

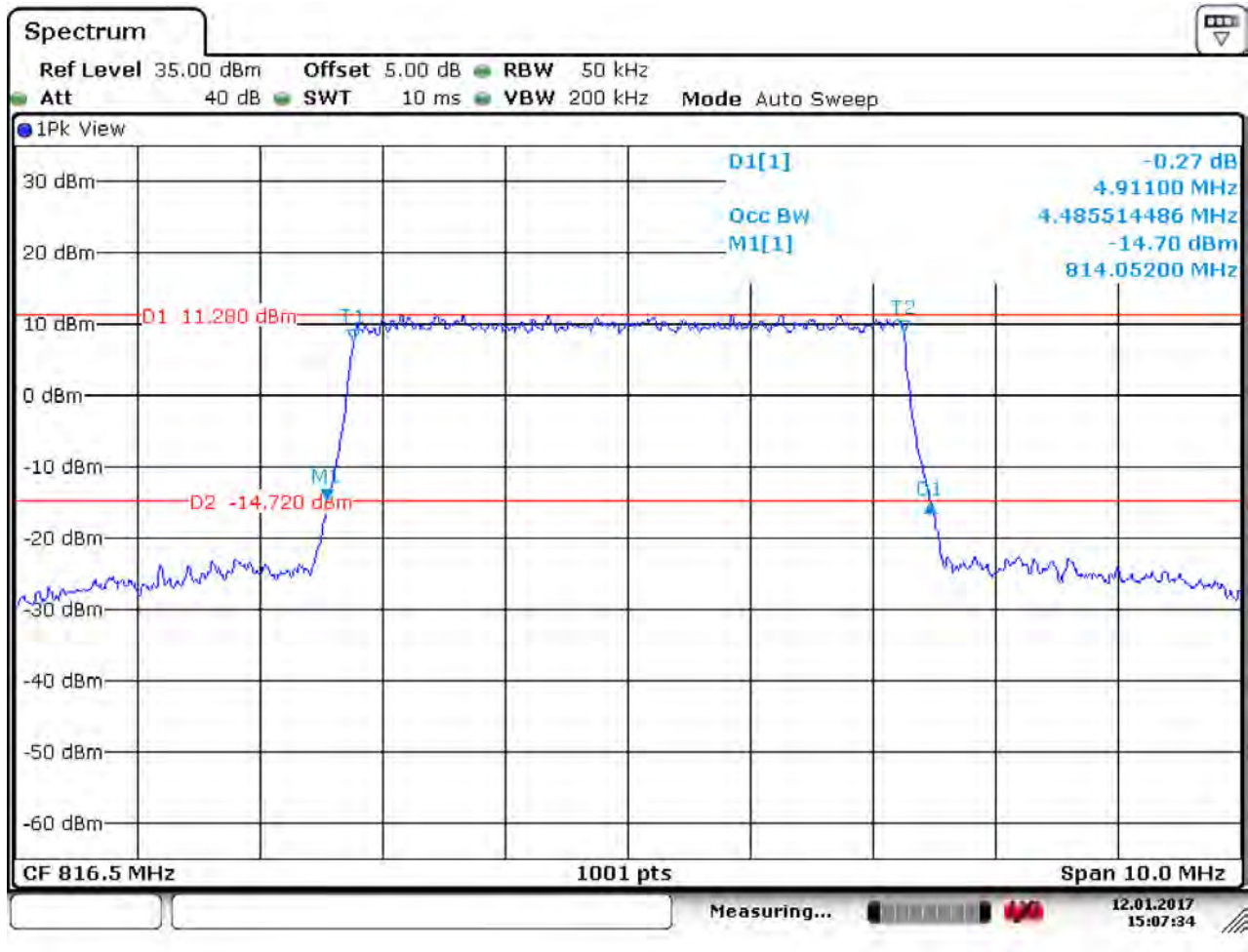


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4.1.1.8 Test Mode = LTE/TM2 5MHz

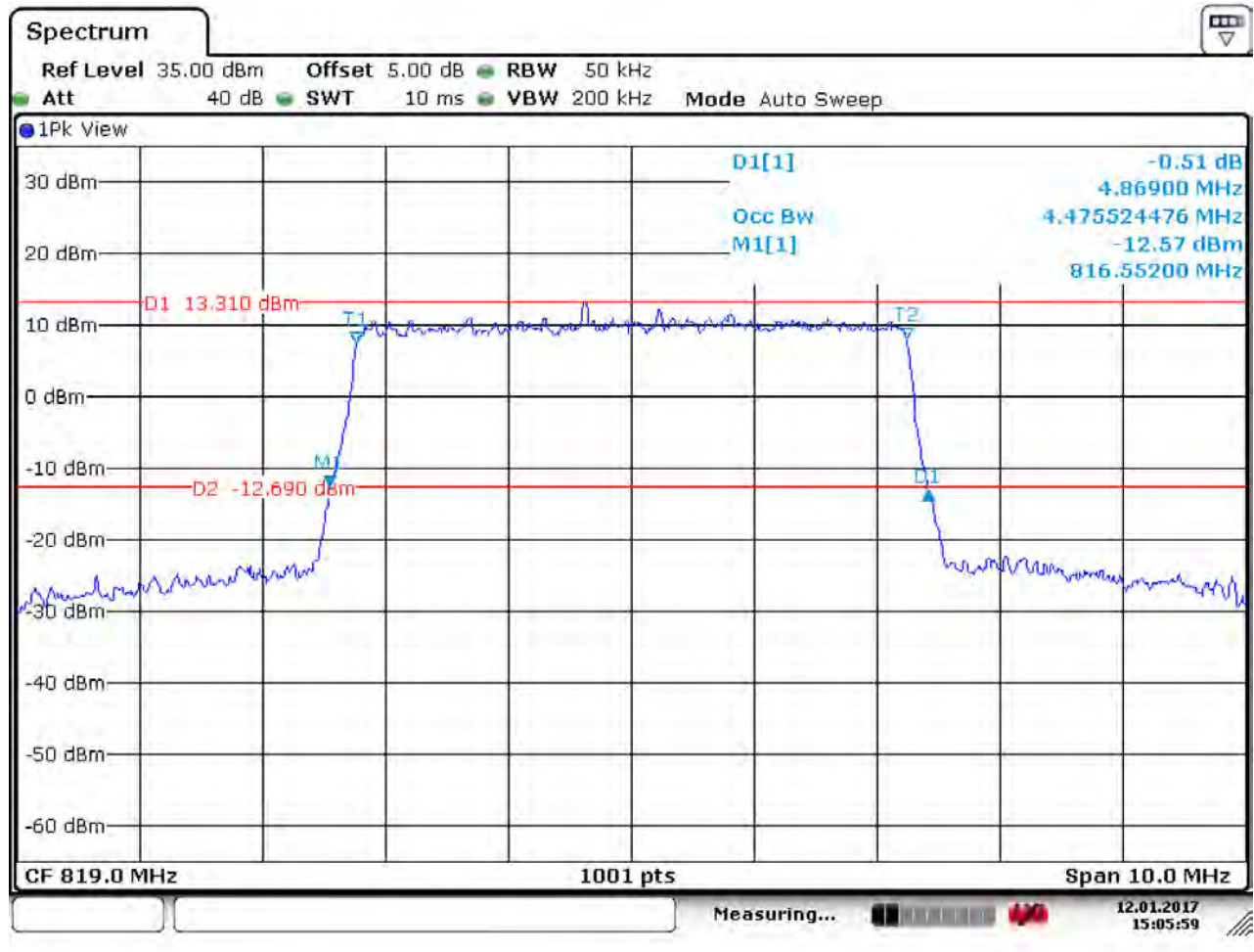
4.1.1.8.1 Test Channel = LCH



Date: 12.JAN.2017 15:07:34



4.1.1.8.2 Test Channel = MCH

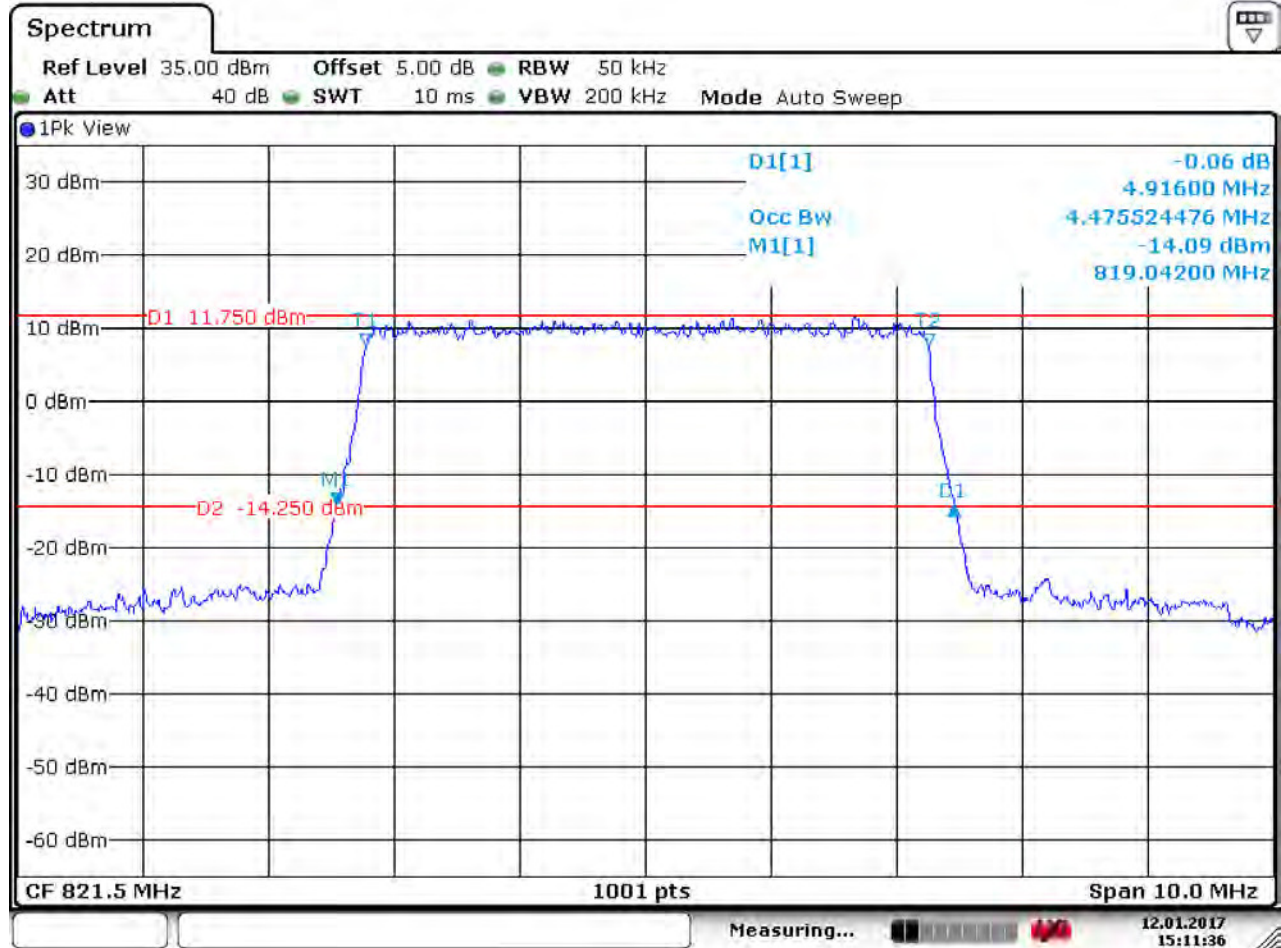


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4.1.1.8.3 Test Channel = HCH



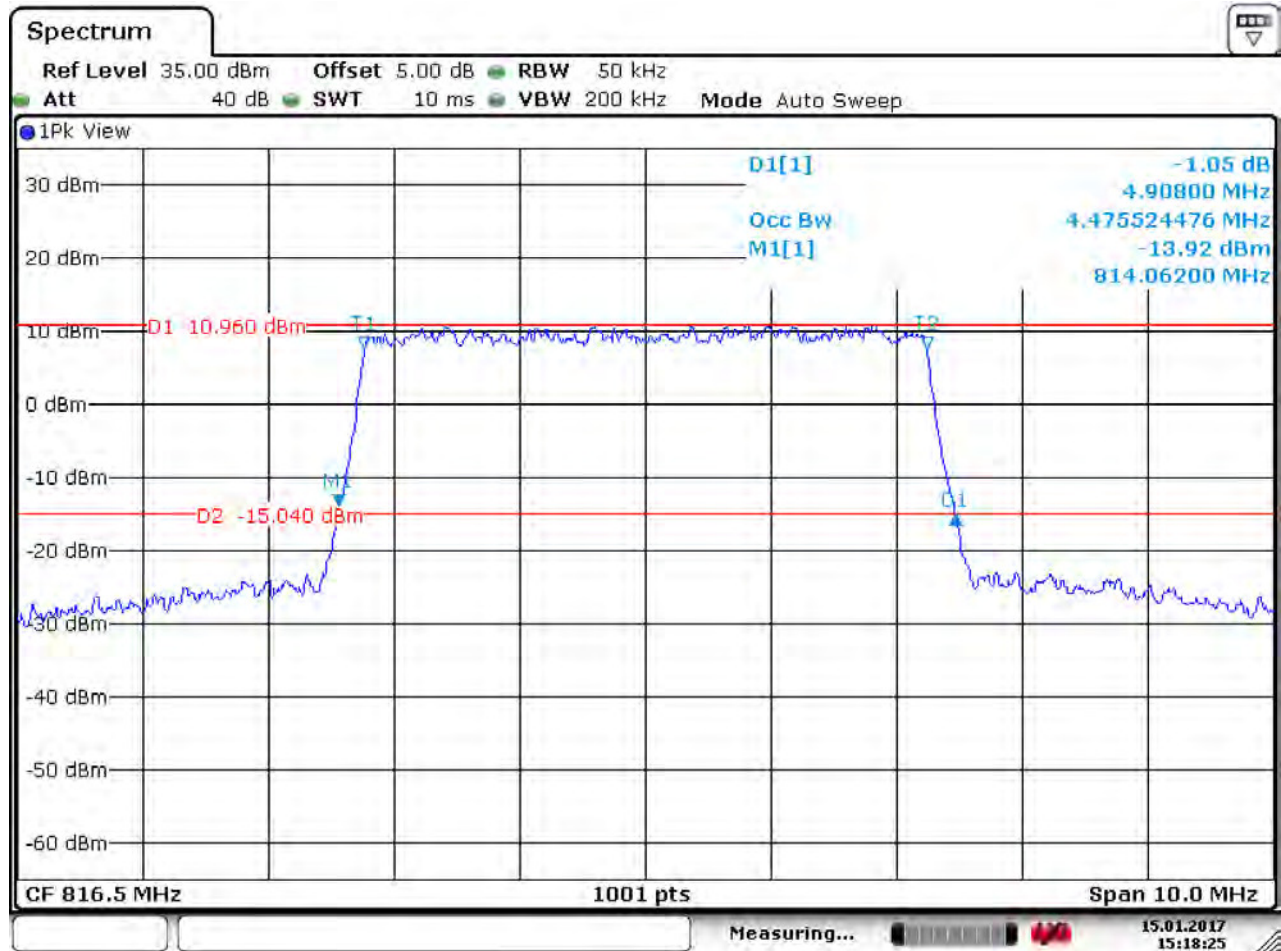
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4.1.1.9 Test Mode = LTE/TM3 5MHz

4.1.1.9.1 Test Channel = LCH

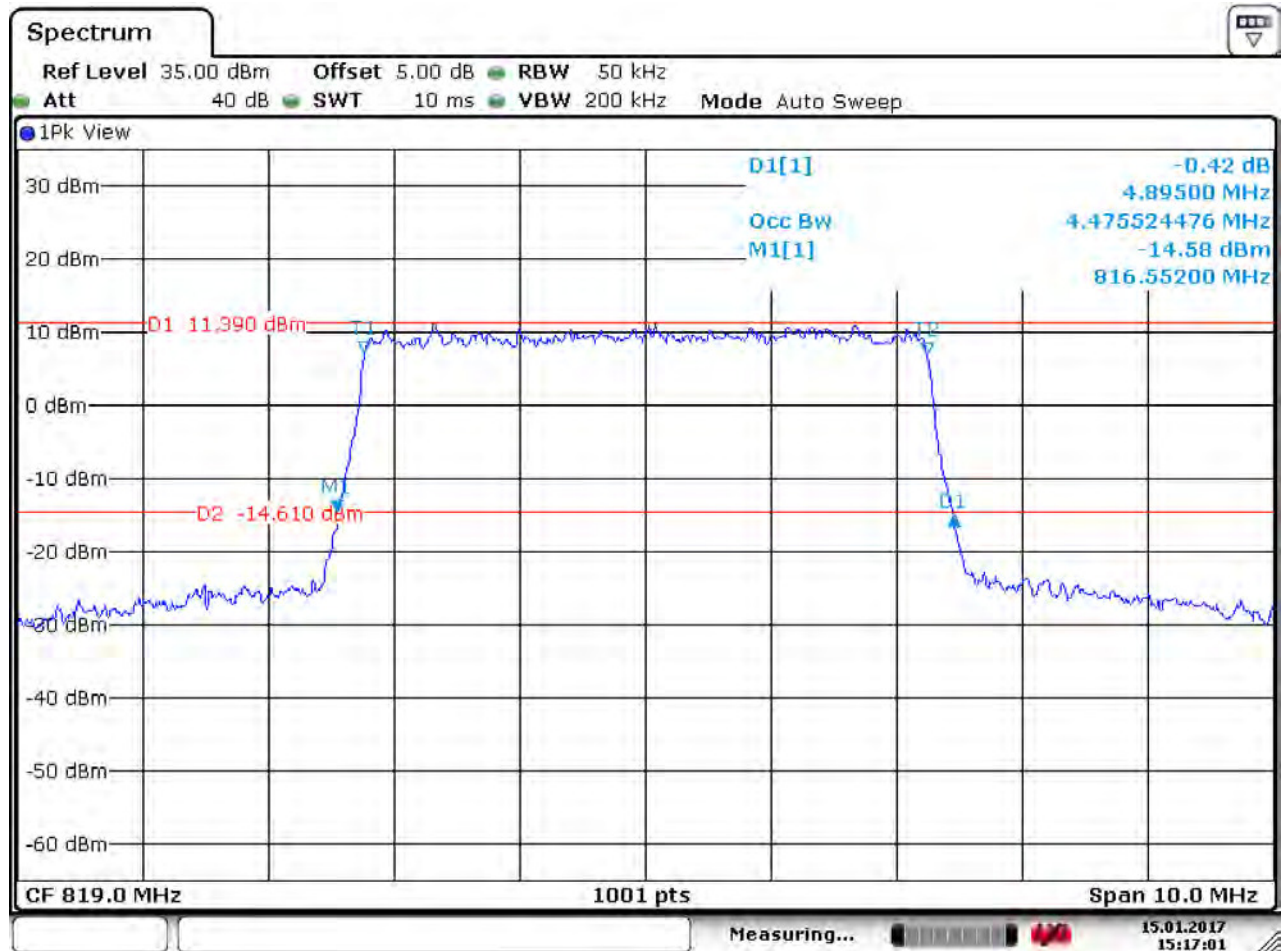


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4.1.1.9.2 Test Channel = MCH

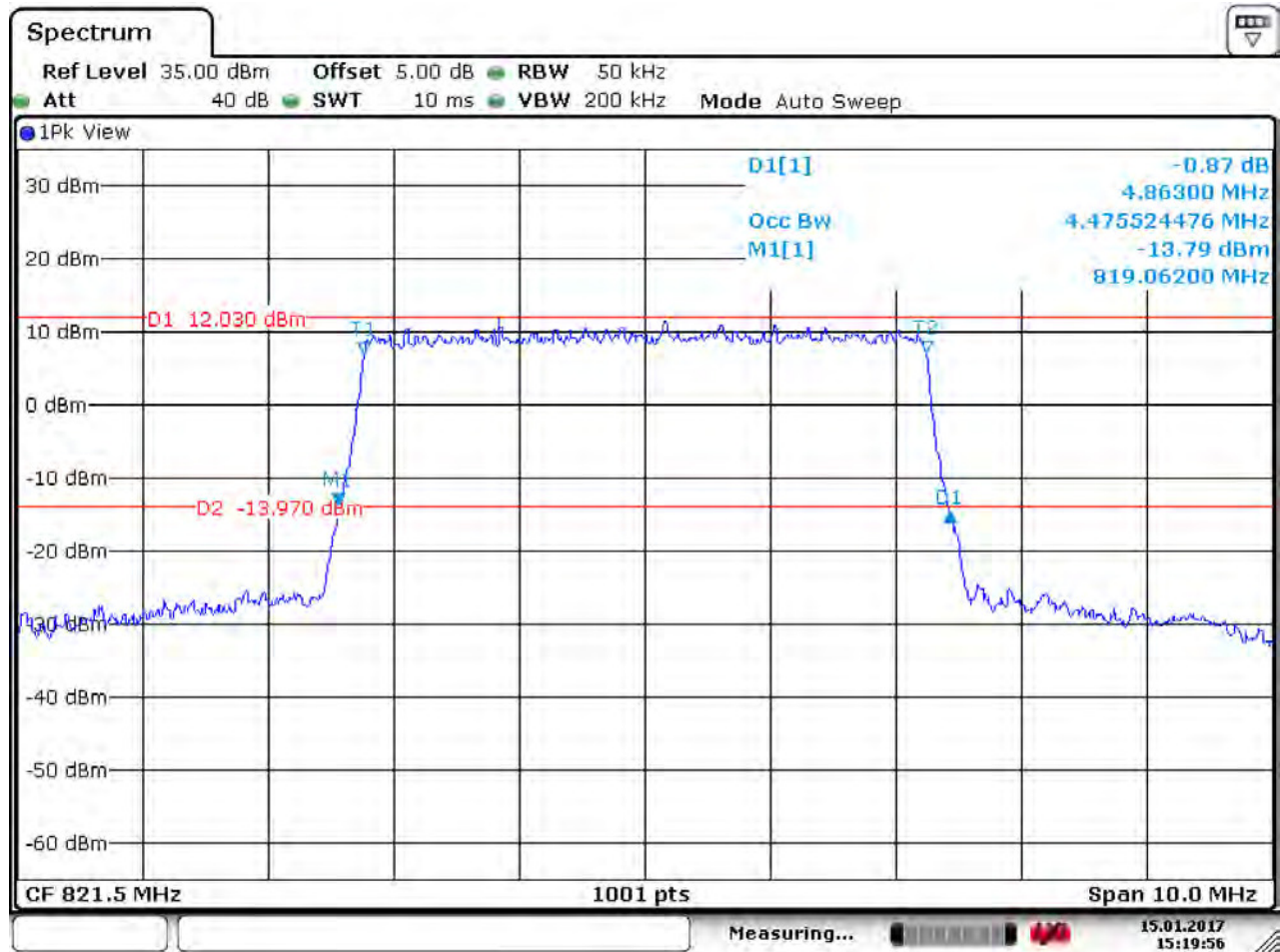


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4.1.1.9.3 Test Channel = HCH



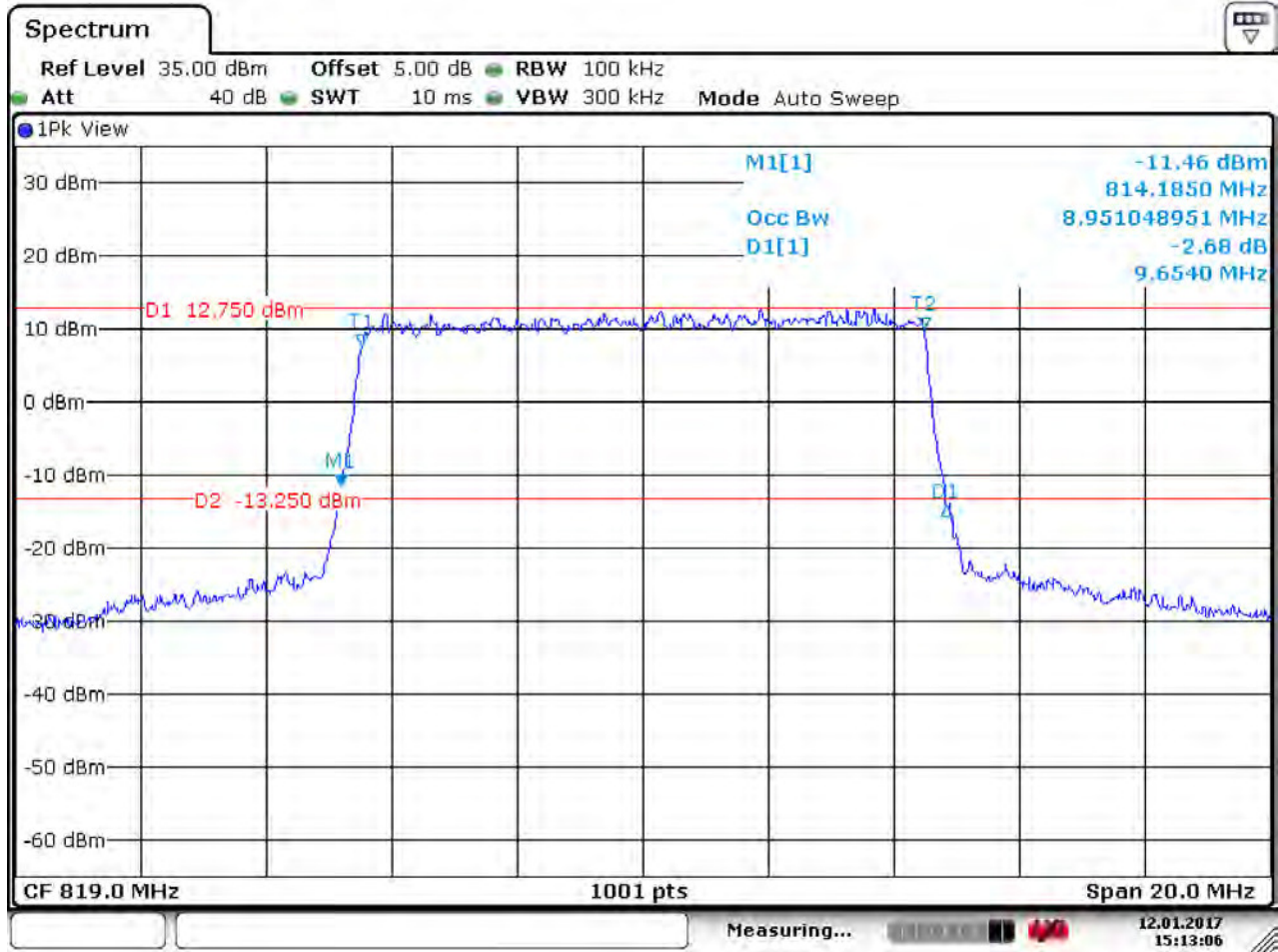
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4.1.1.10 Test Mode = LTE/TM1 10MHz

4.1.1.10.1 Test Channel = MCH



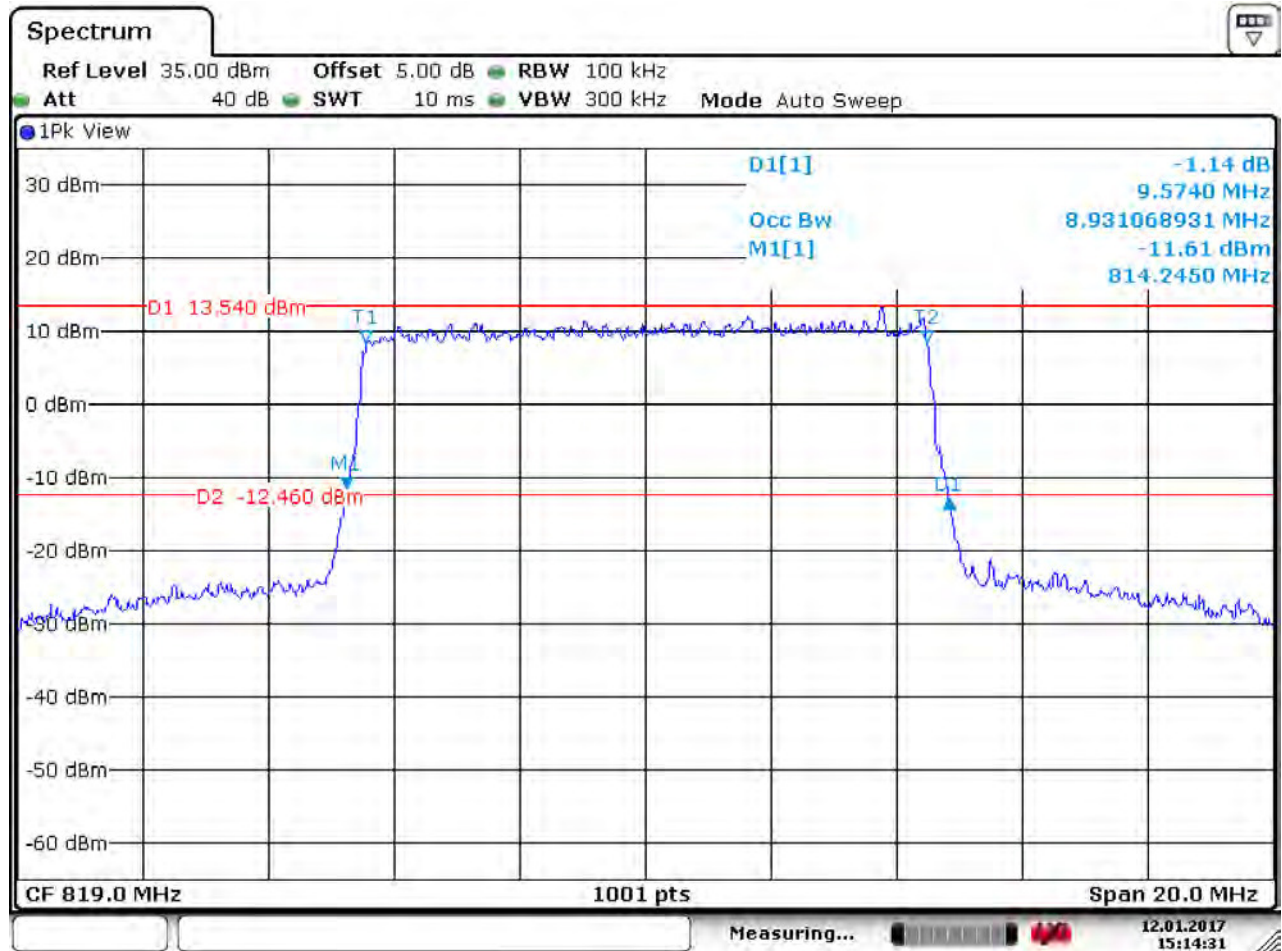
Date: 12.JAN.2017 15:13:07

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4.1.1.11 Test Mode = LTE/TM2 10MHz

4.1.1.11.1 Test Channel = MCH

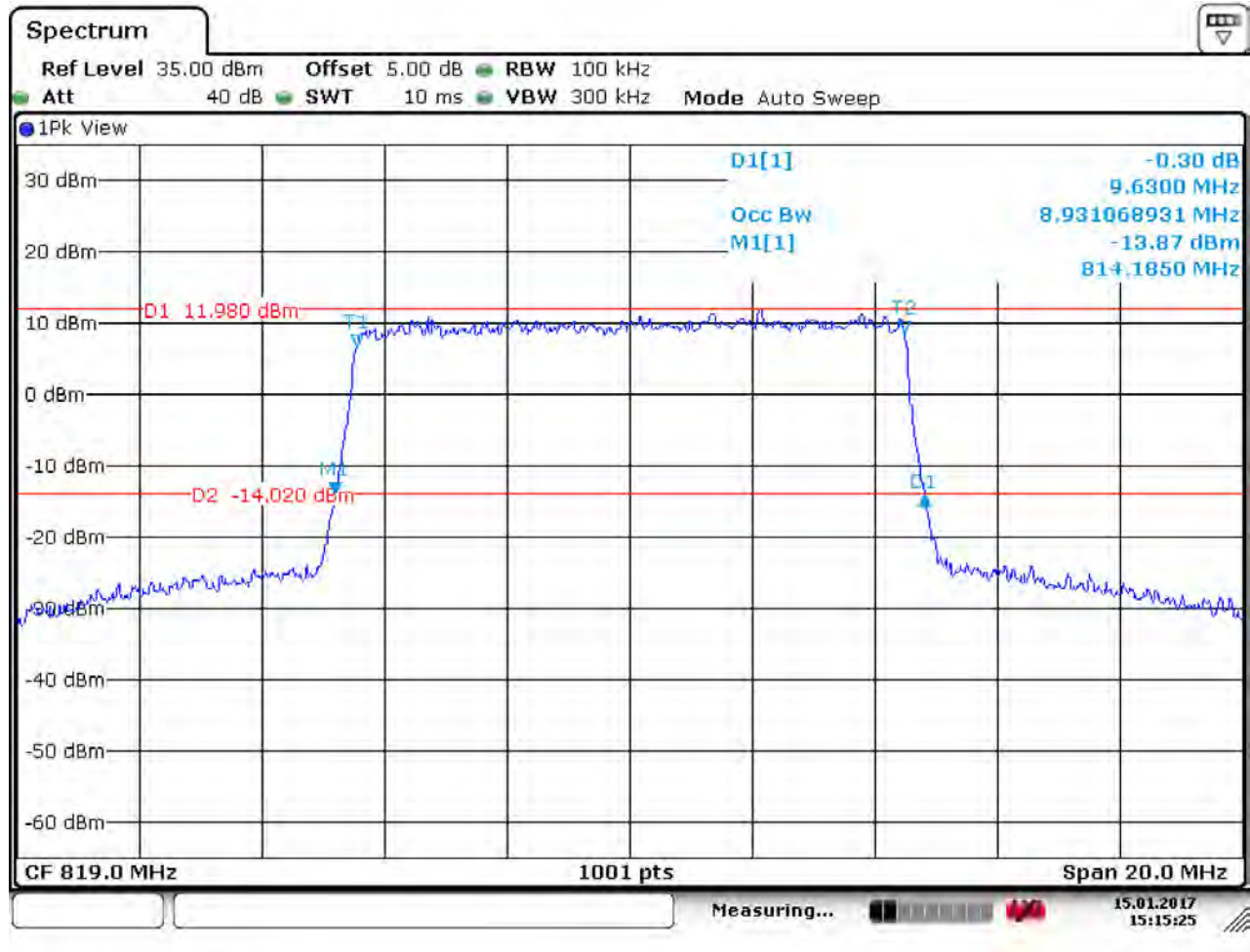


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4.1.1.12 Test Mode = LTE/TM3 10MHz

4.1.1.12.1 Test Channel = MCH



Date: 15.JAN.2017 15:15:26



5 Band Edges Compliance

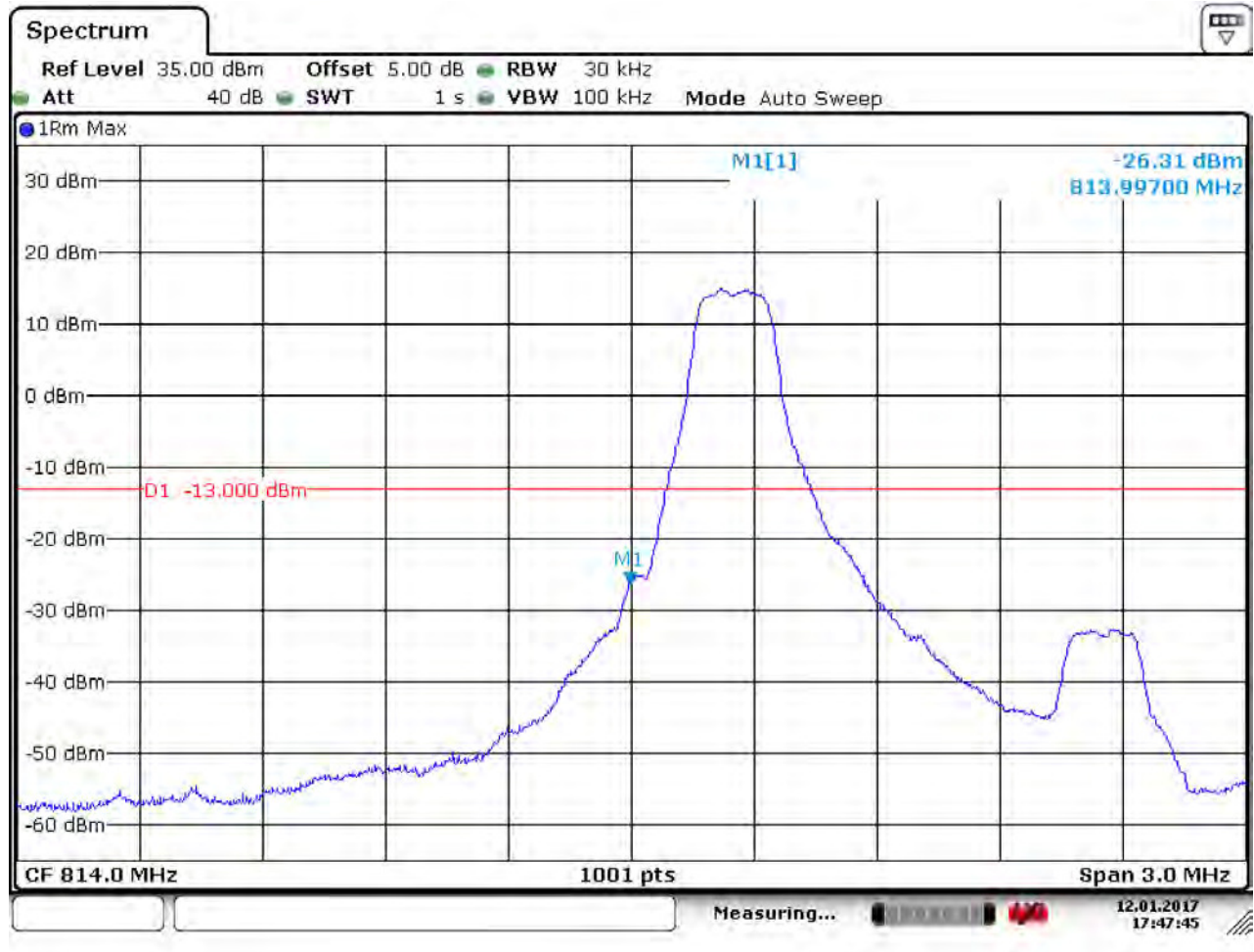
5.1 For LTE

5.1.1 Test Band = LTE band26(814-824)

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

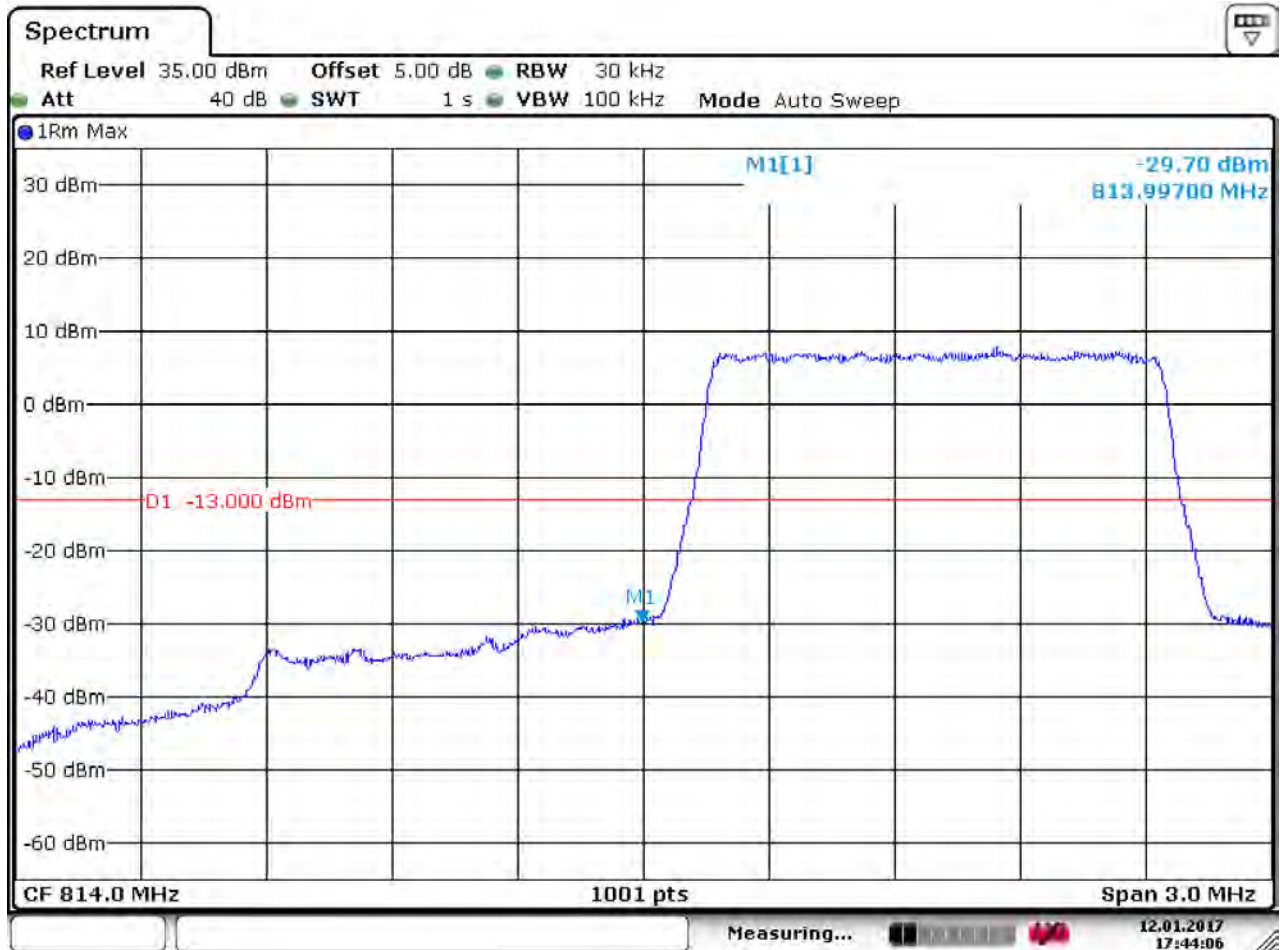
5.1.1.1.1.1 Test RB=1RB



Date: 12.JAN.2017 17:47:45



5.1.1.1.2 Test RB=6RB



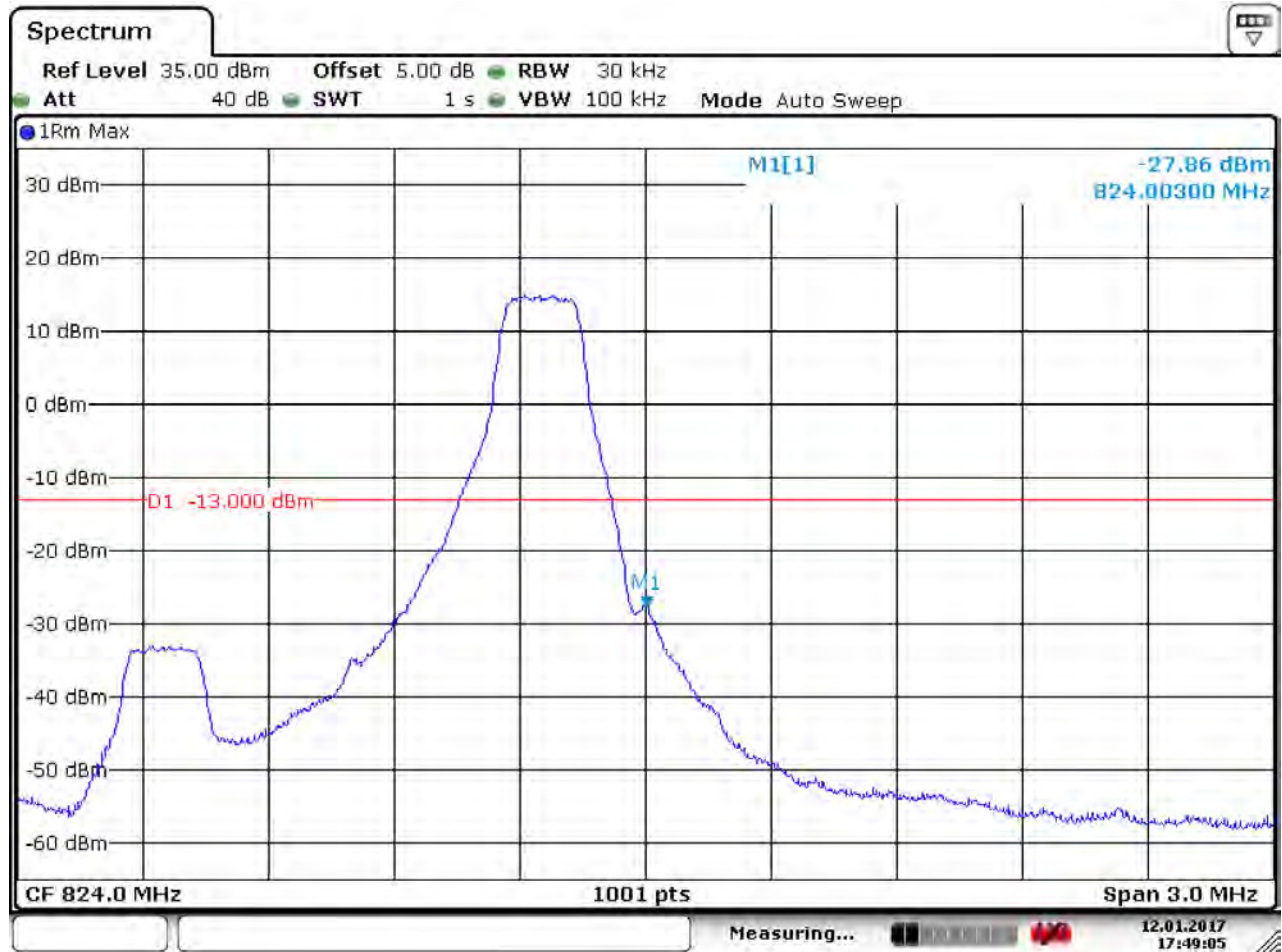
Date: 12.JAN.2017 17:44:06

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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



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5.1.1.1.2.2 Test RB=6RB



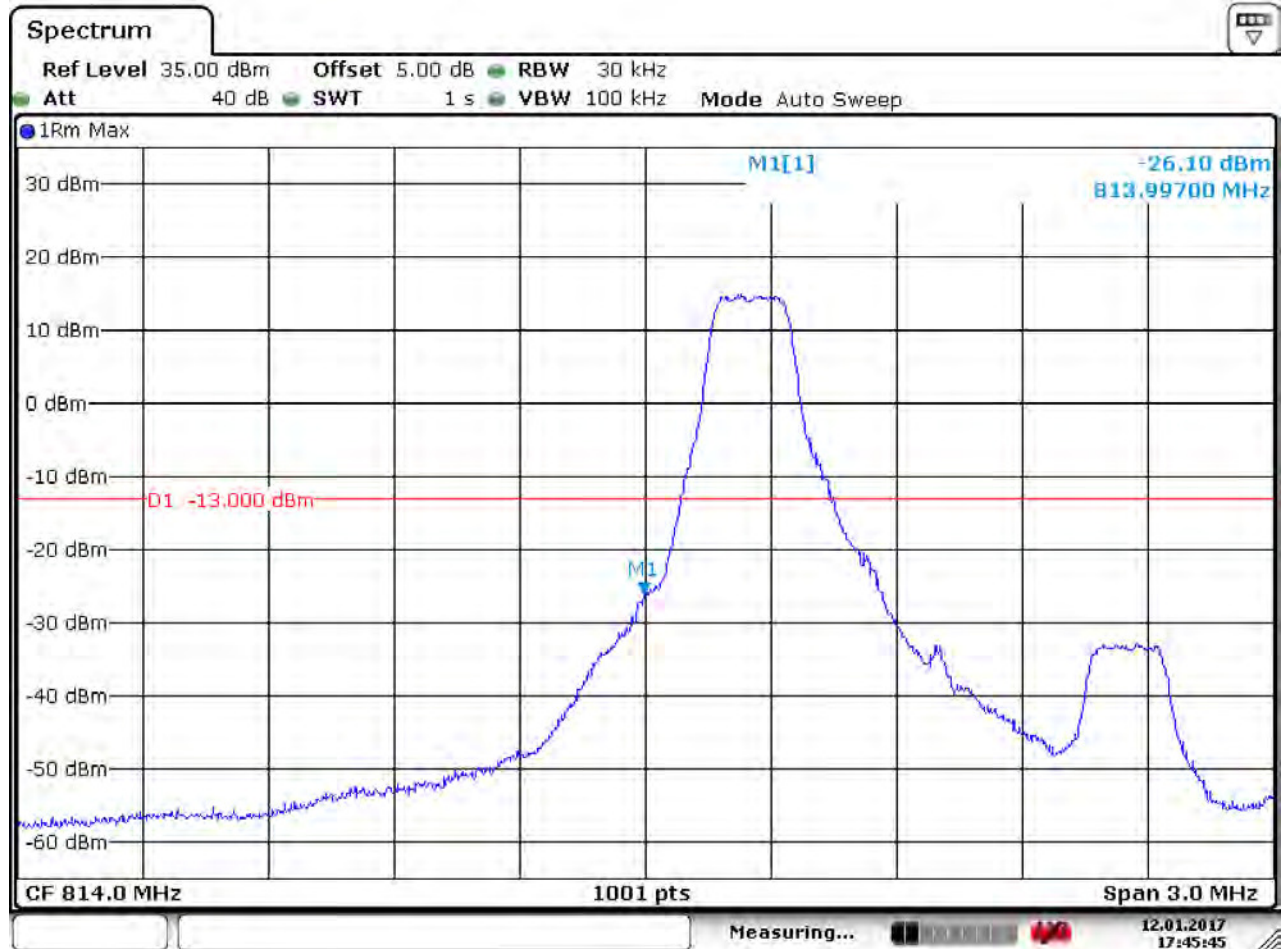
Date: 12.JAN.2017 17:51:11



5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH

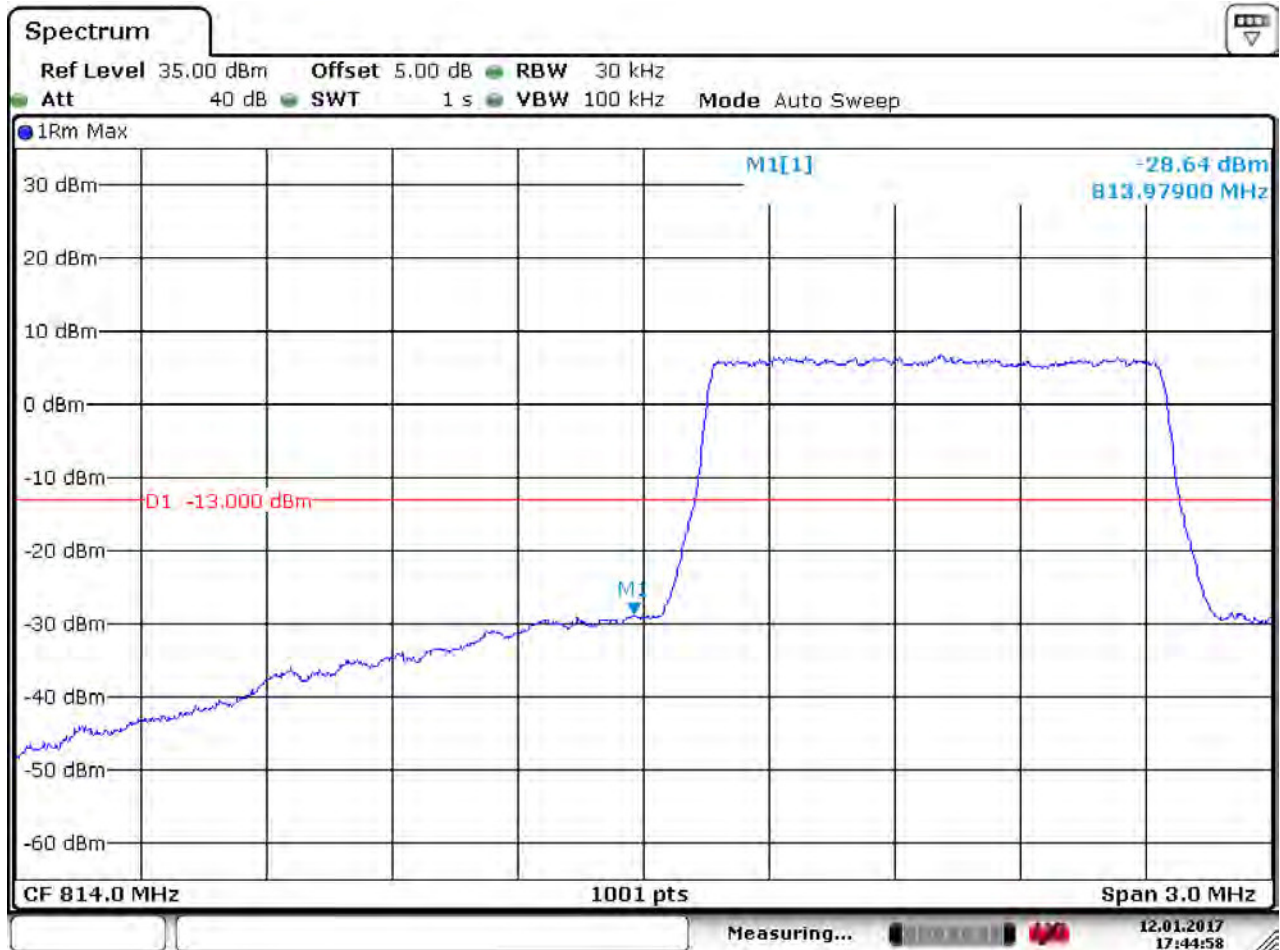
5.1.1.2.1.1 Test RB=1RB



Date: 12.JAN.2017 17:45:45



5.1.1.2.1.2 Test RB=6RB

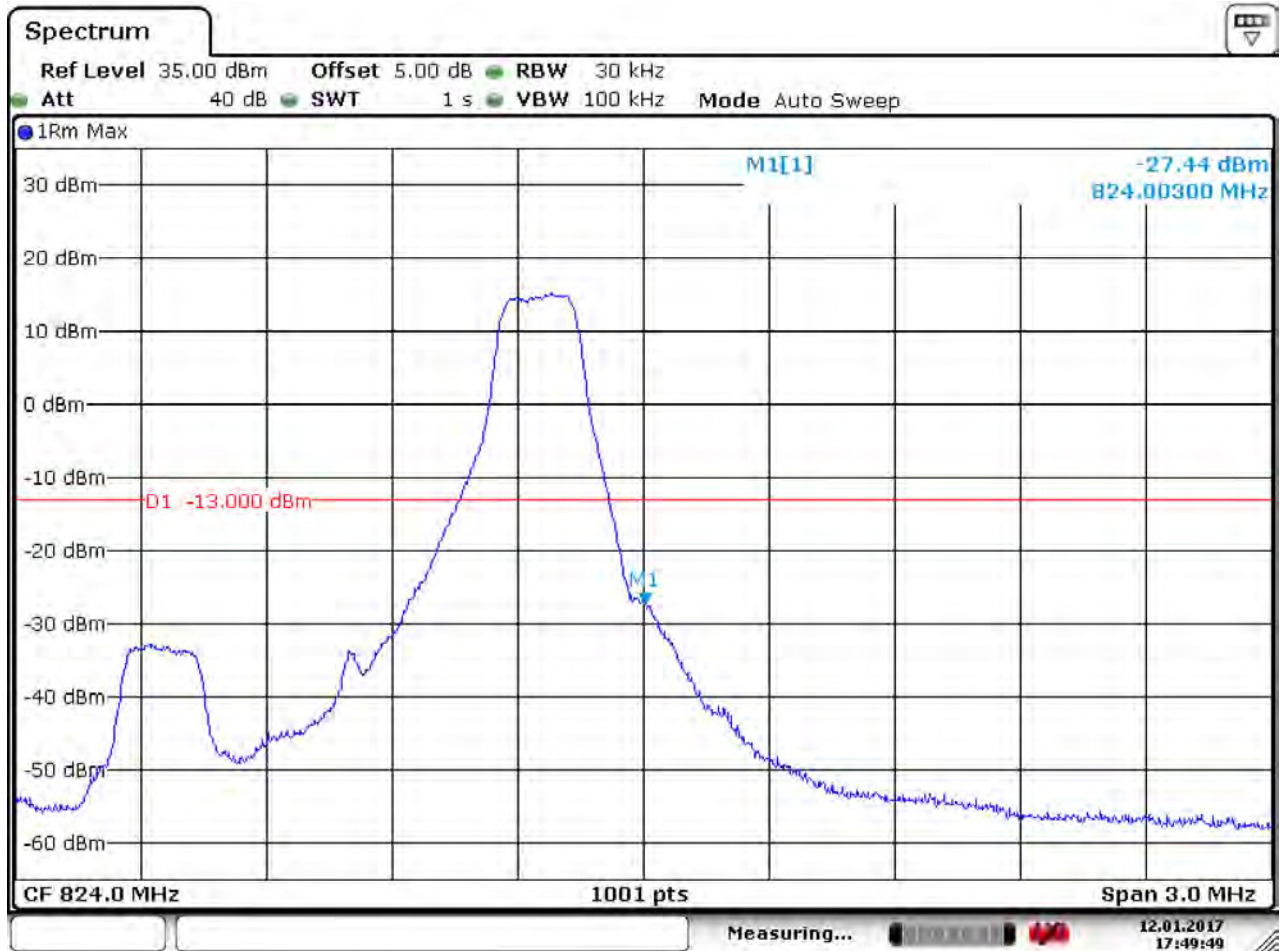


Date: 12.JAN.2017 17:44:58



5.1.1.2.2 Test Channel = HCH

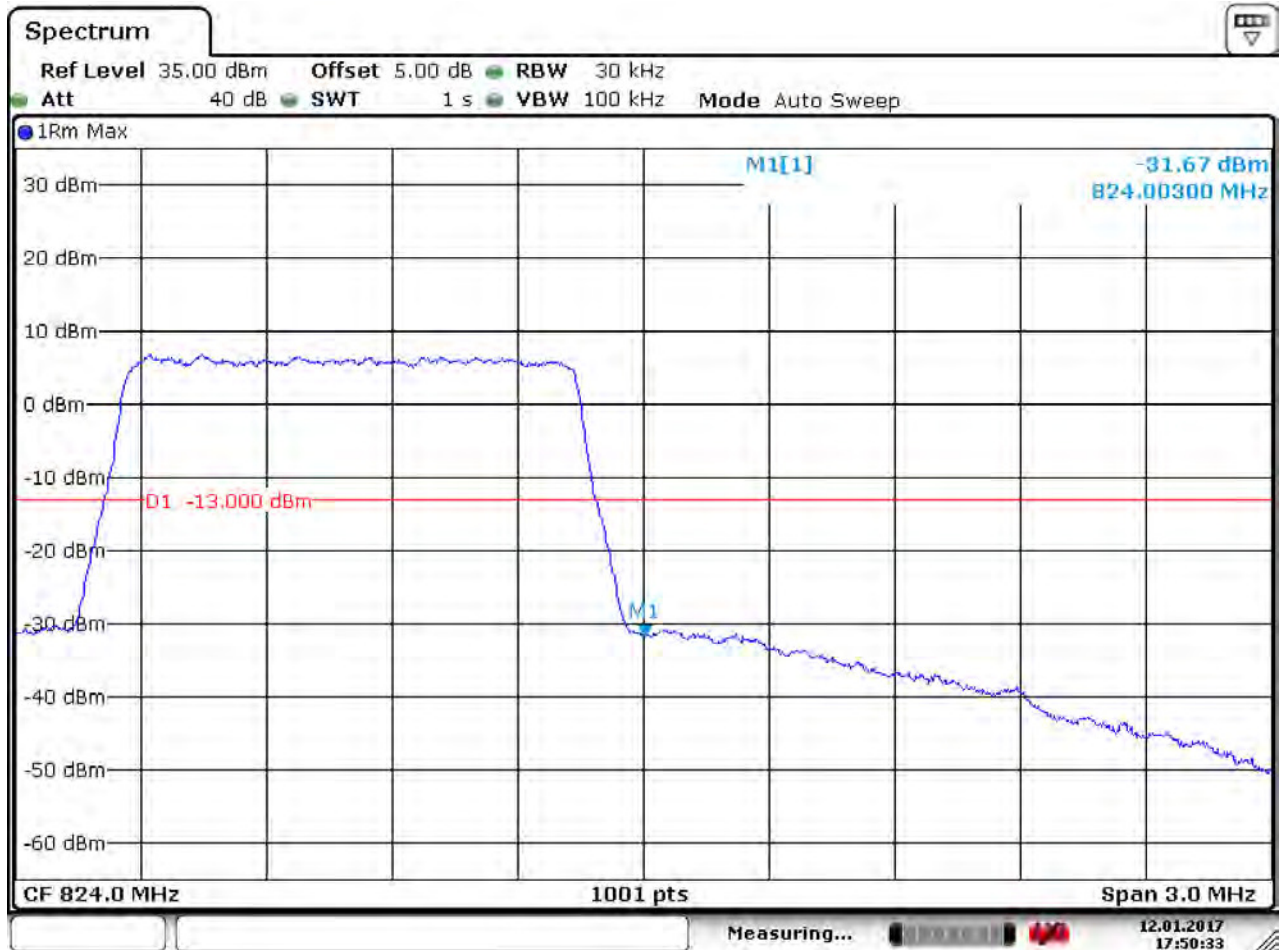
5.1.1.2.2.1 Test RB=1RB



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5.1.1.2.2.2 Test RB=6RB



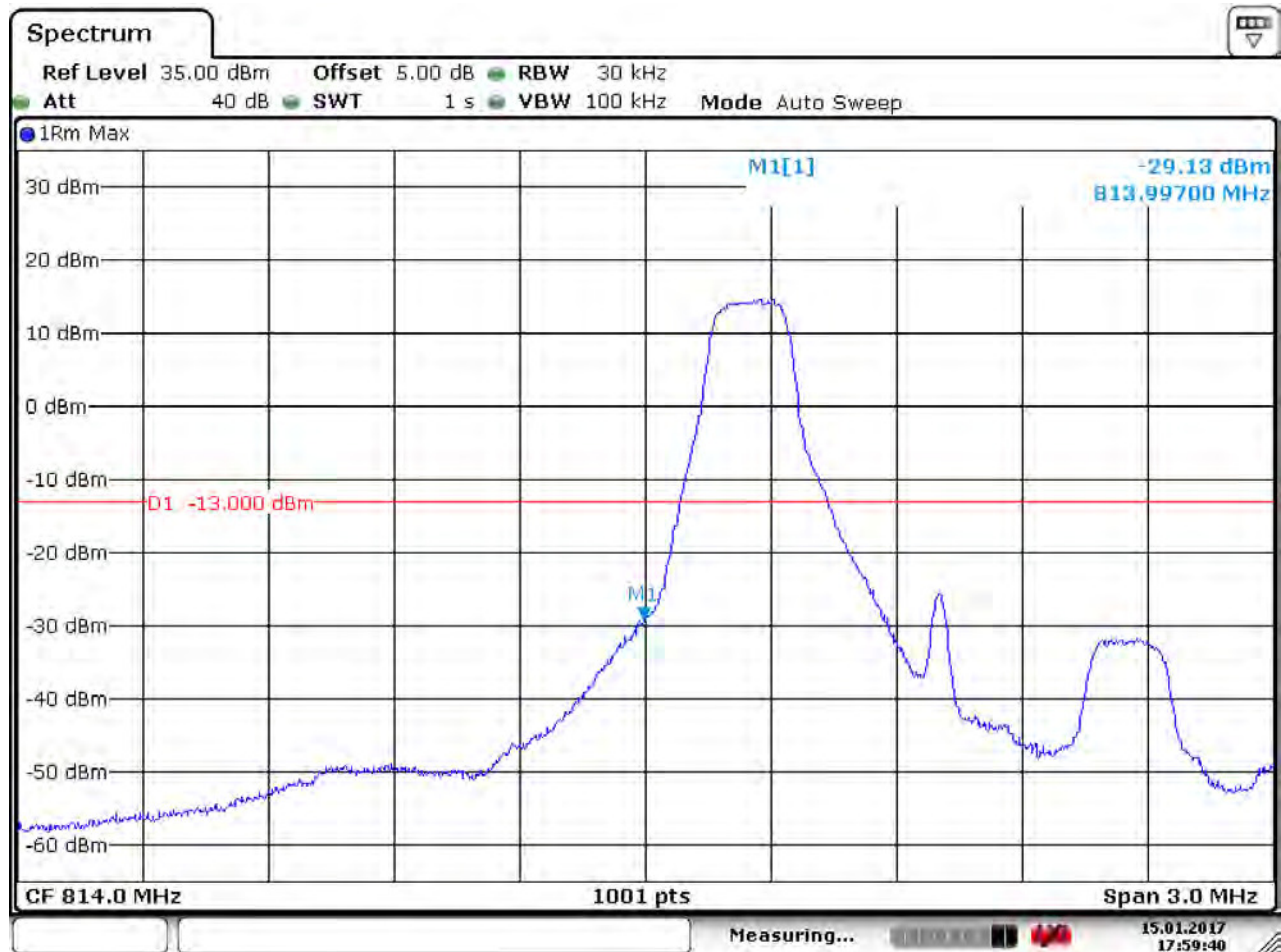
Date: 12.JAN.2017 17:50:33



5.1.1.3 Test Mode = LTE/TM3 1.4MHz

5.1.1.3.1 Test Channel = LCH

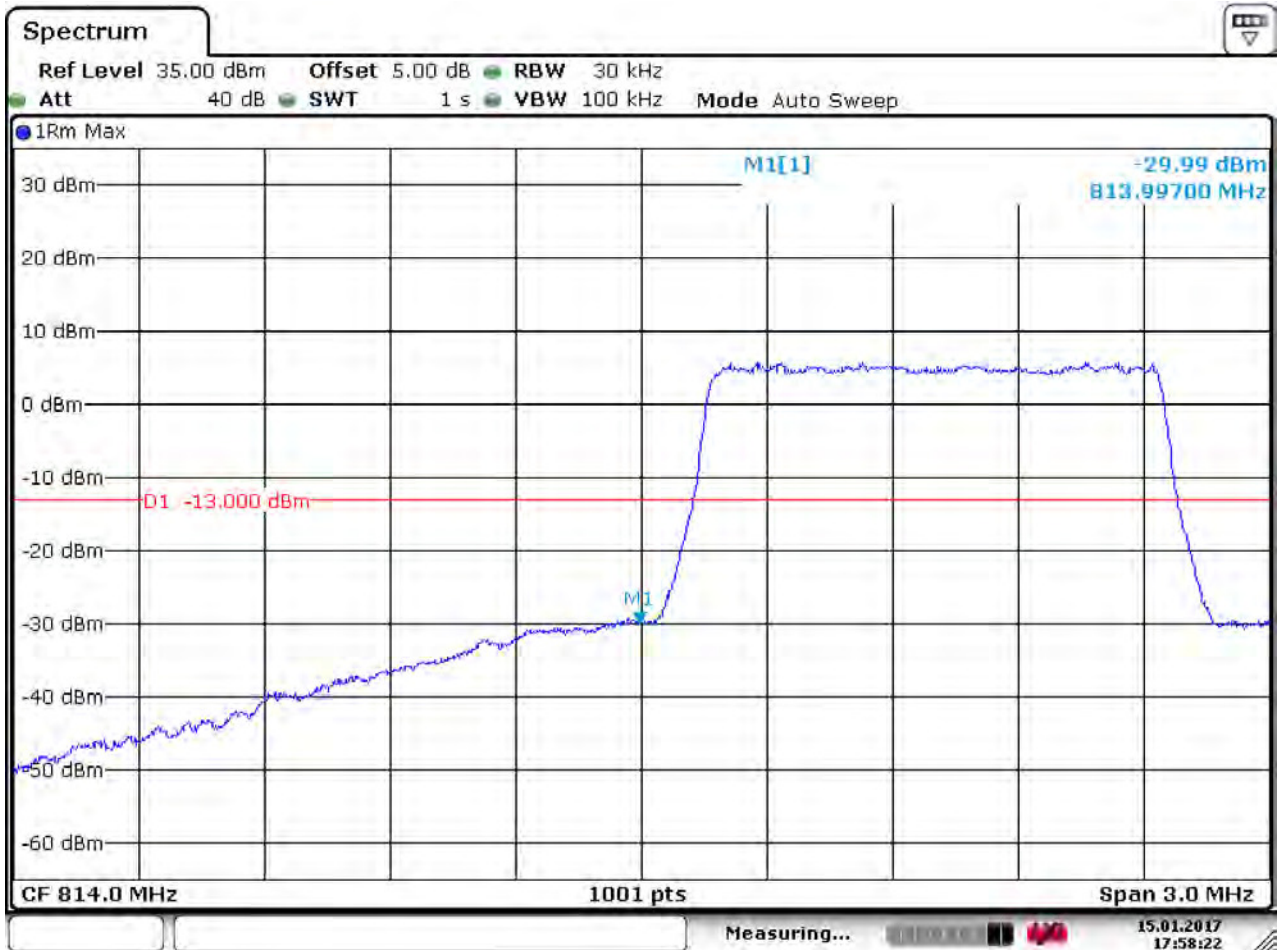
5.1.1.3.1.1 Test RB=1RB



Date: 15.JAN.2017 17:59:41



5.1.1.3.1.2 Test RB=6RB



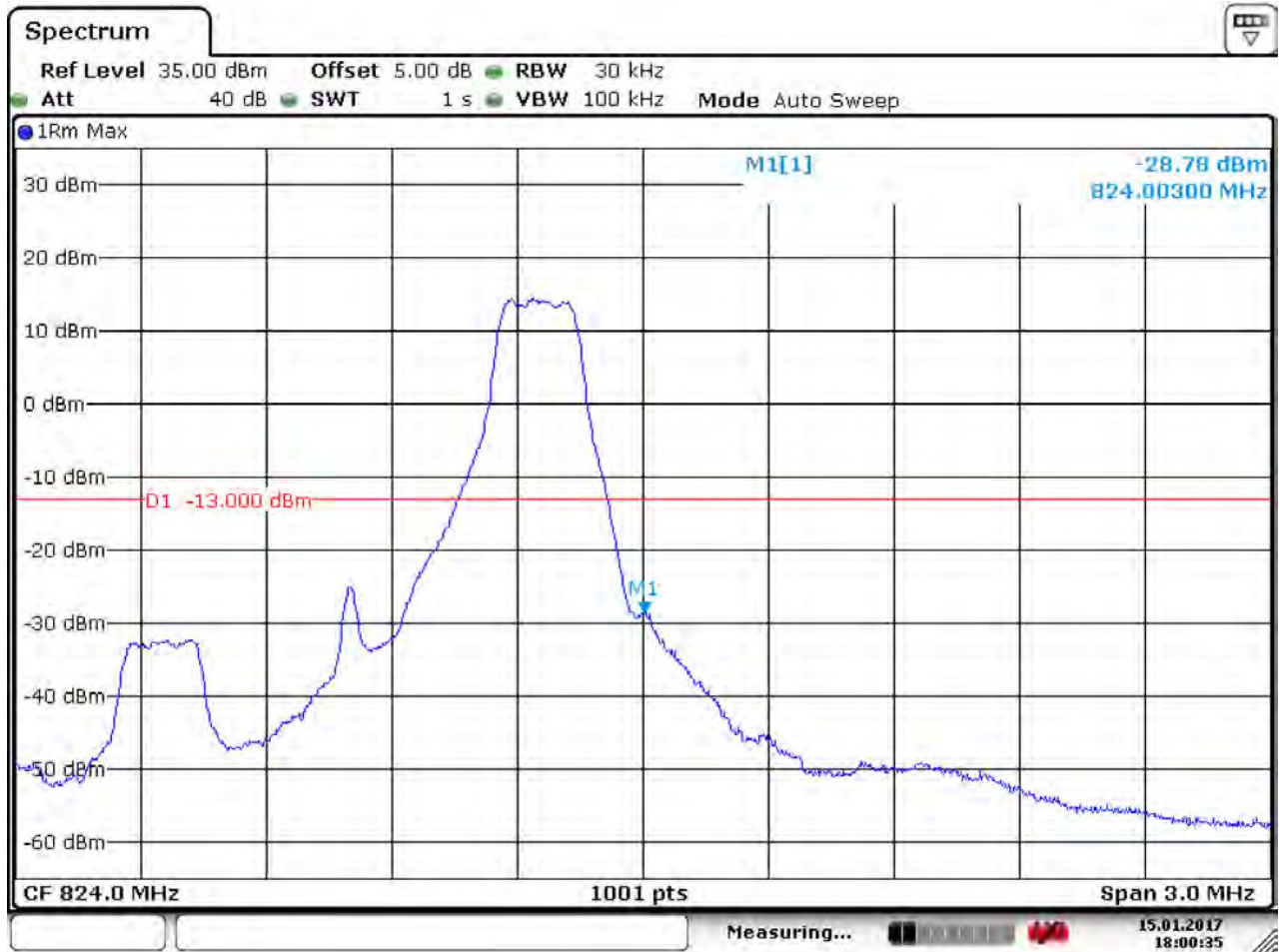
Date: 15. JAN. 2017 17:58:22

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5.1.1.3.2 Test Channel = HCH

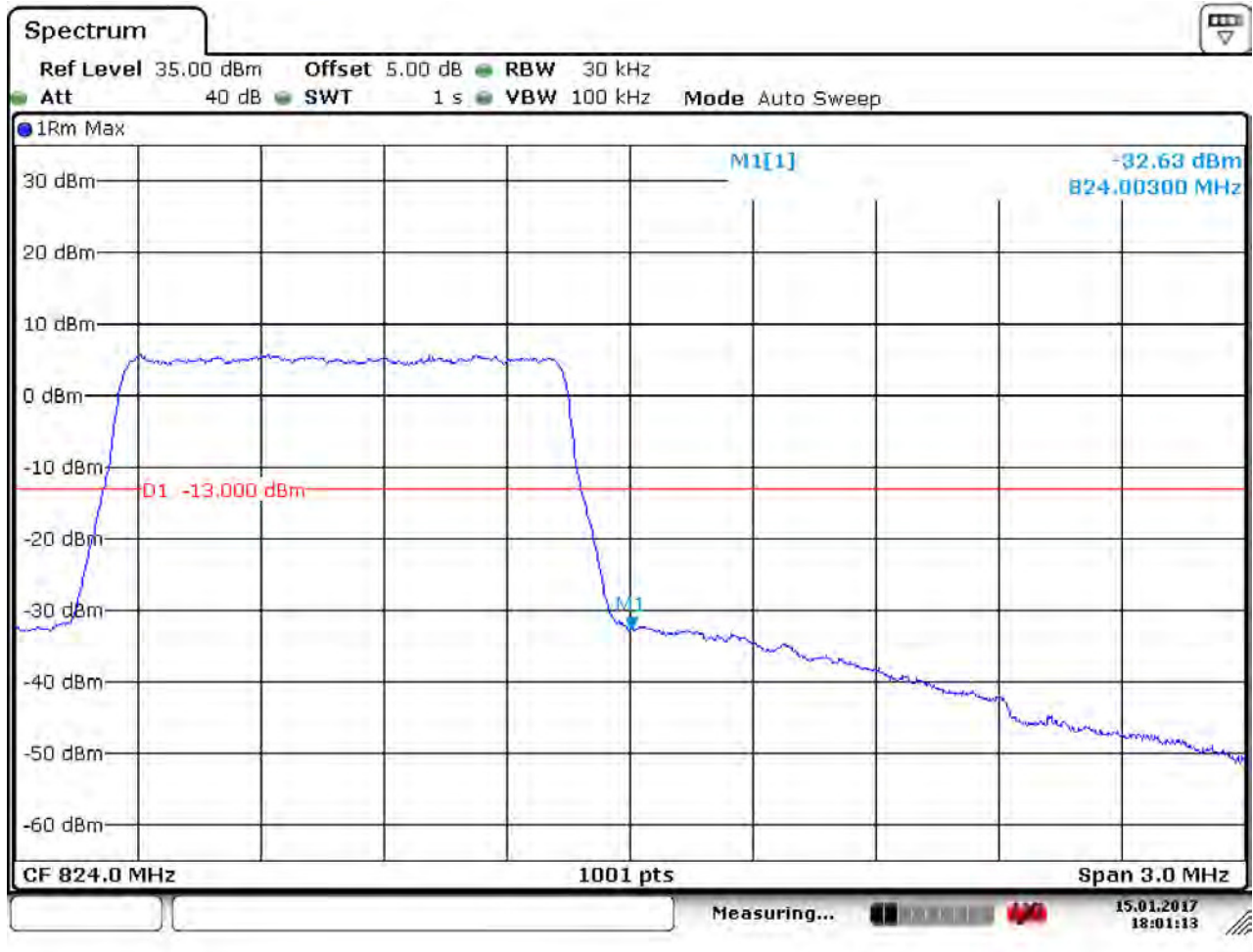
5.1.1.3.2.1 Test RB=1RB



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5.1.1.3.2.2 Test RB=6RB



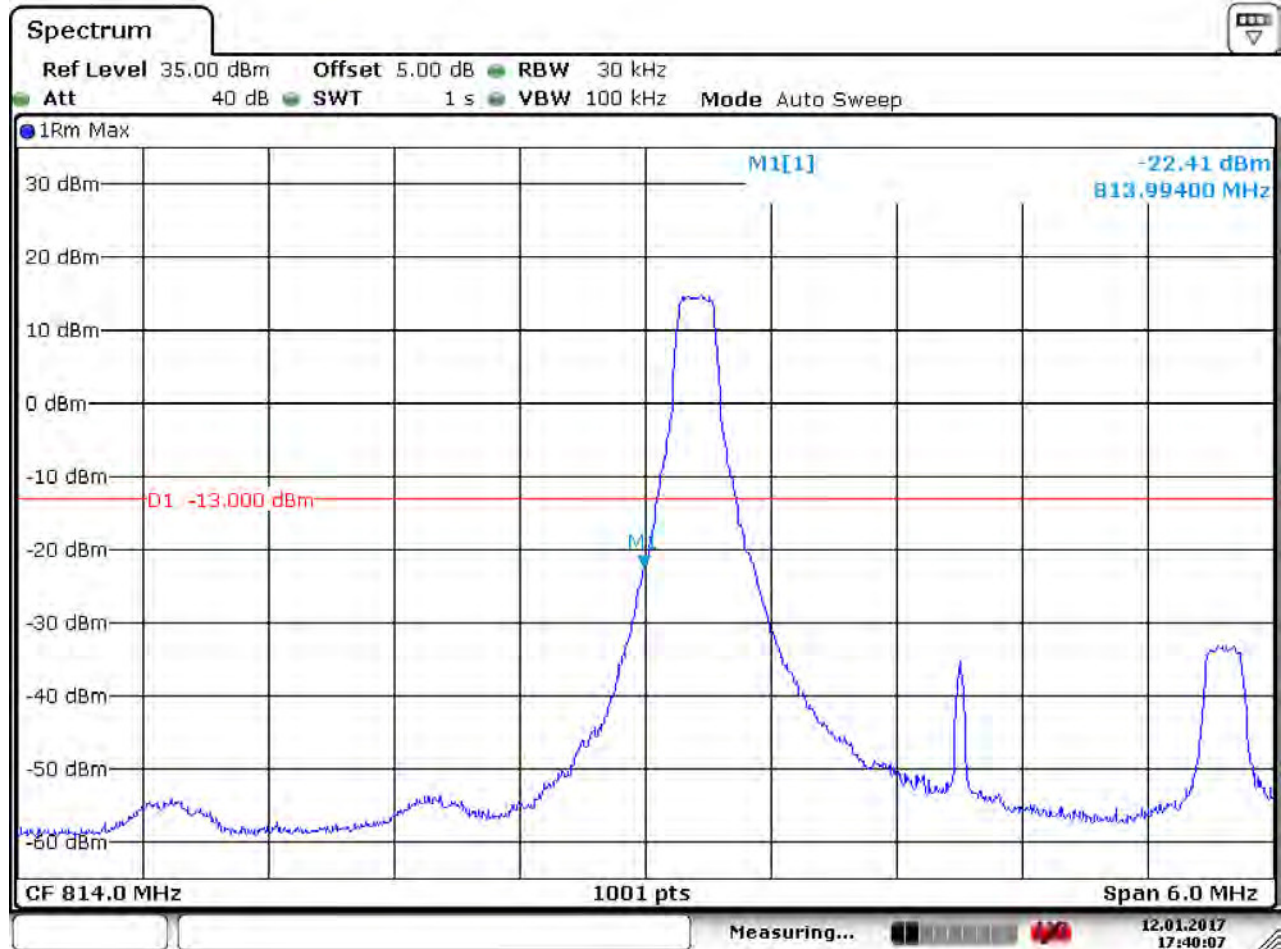
Date: 15, JAN. 2017 18:01:13



5.1.1.4 Test Mode = LTE/TM1 3MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

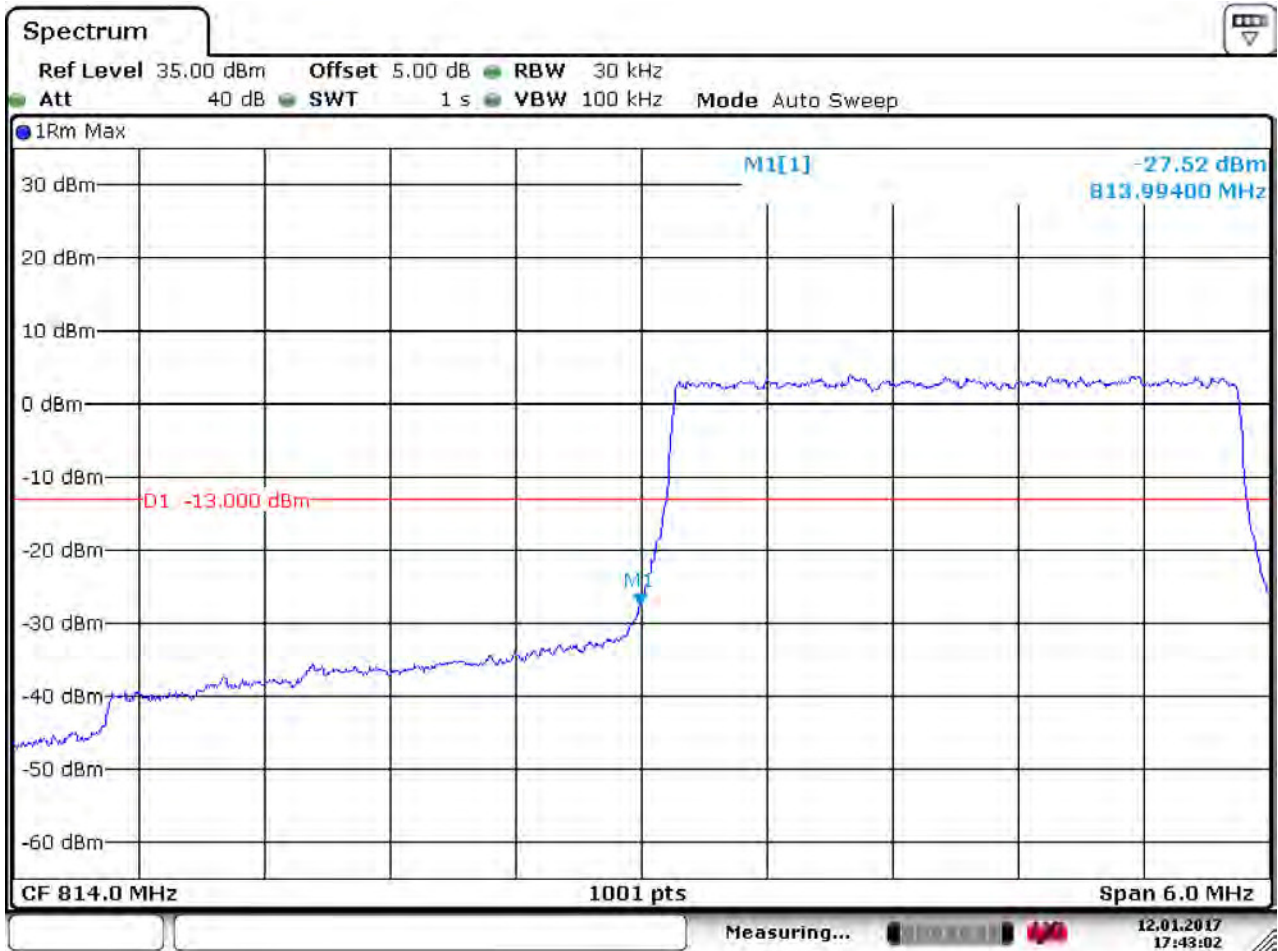


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5.1.1.4.1.2 Test RB=15RB



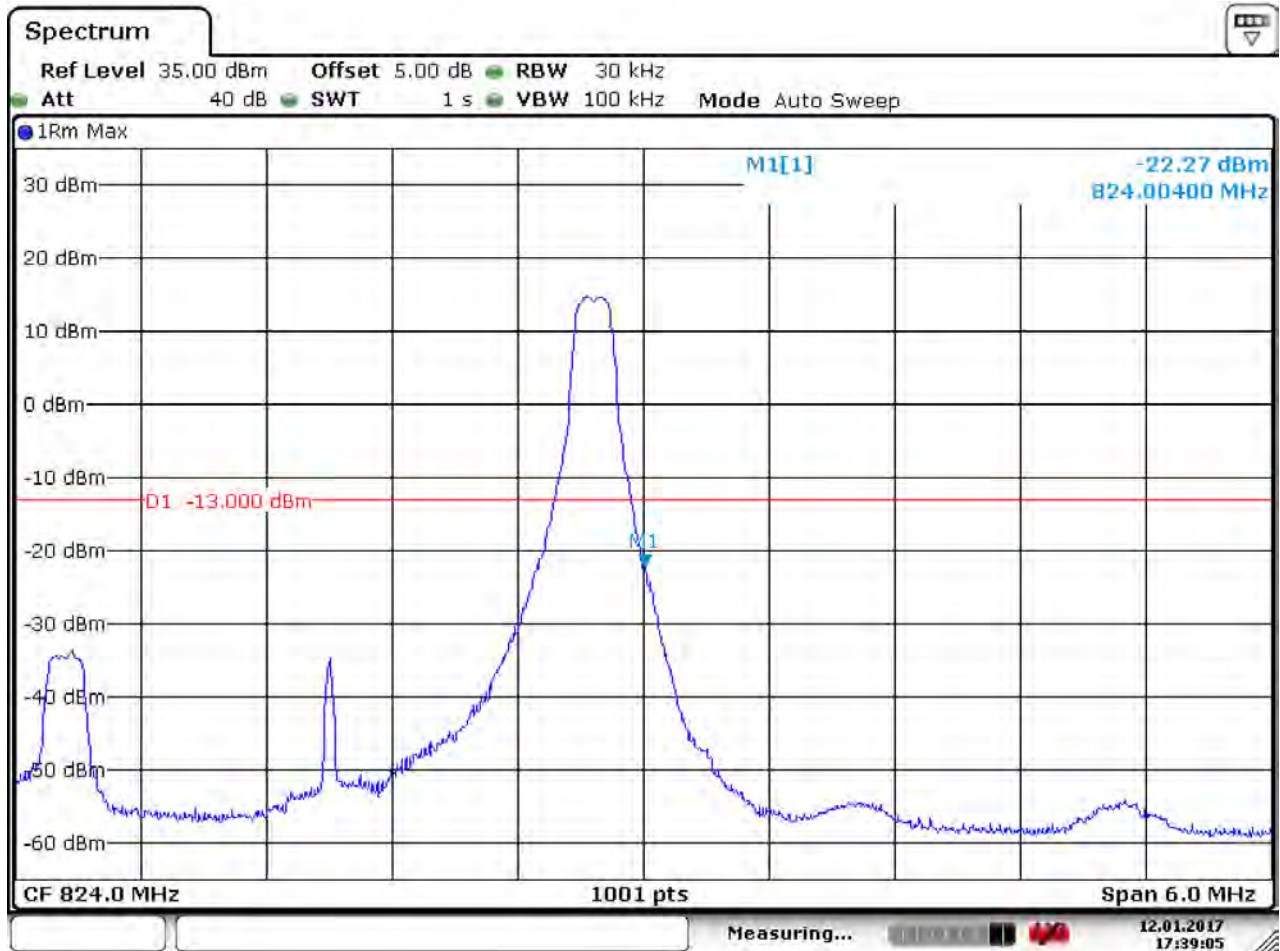
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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



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5.1.1.4.2.2 Test RB=15RB



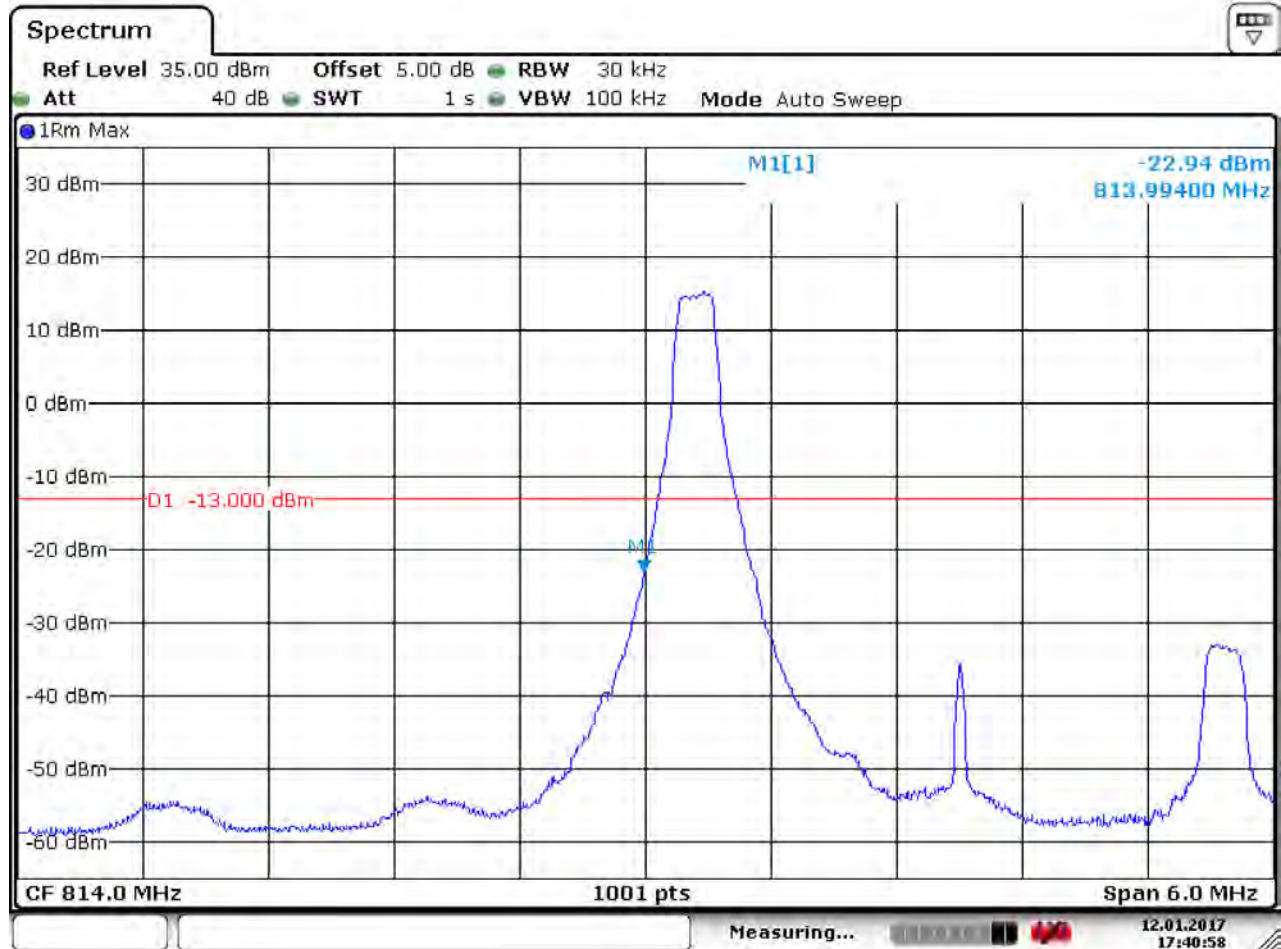
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5.1.1.5 Test Mode = LTE/TM2 3MHz

5.1.1.5.1 Test Channel = LCH

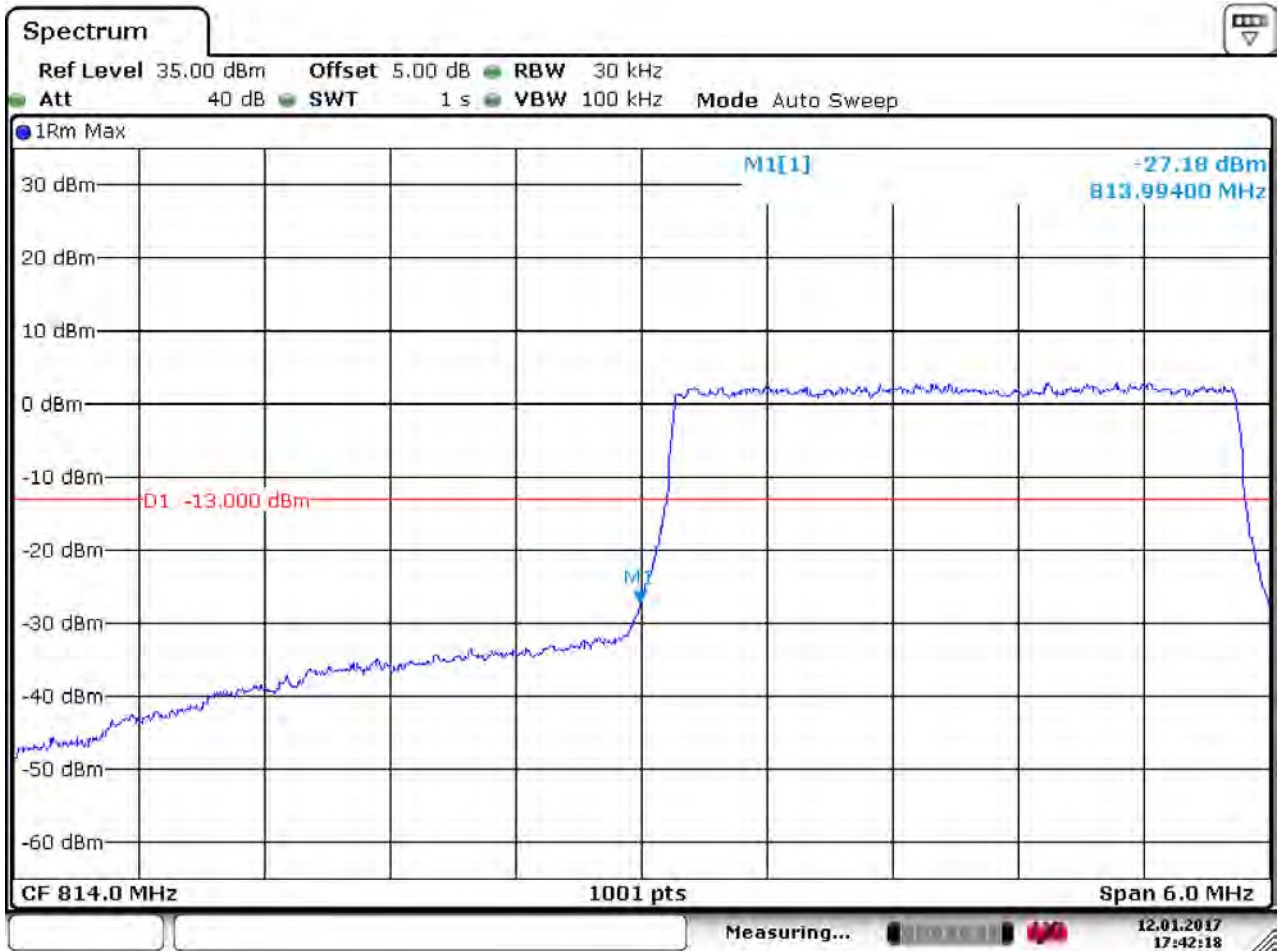
5.1.1.5.1.1 Test RB=1RB



Date: 12.JAN.2017 17:40:58



5.1.1.5.1.2 Test RB=15RB



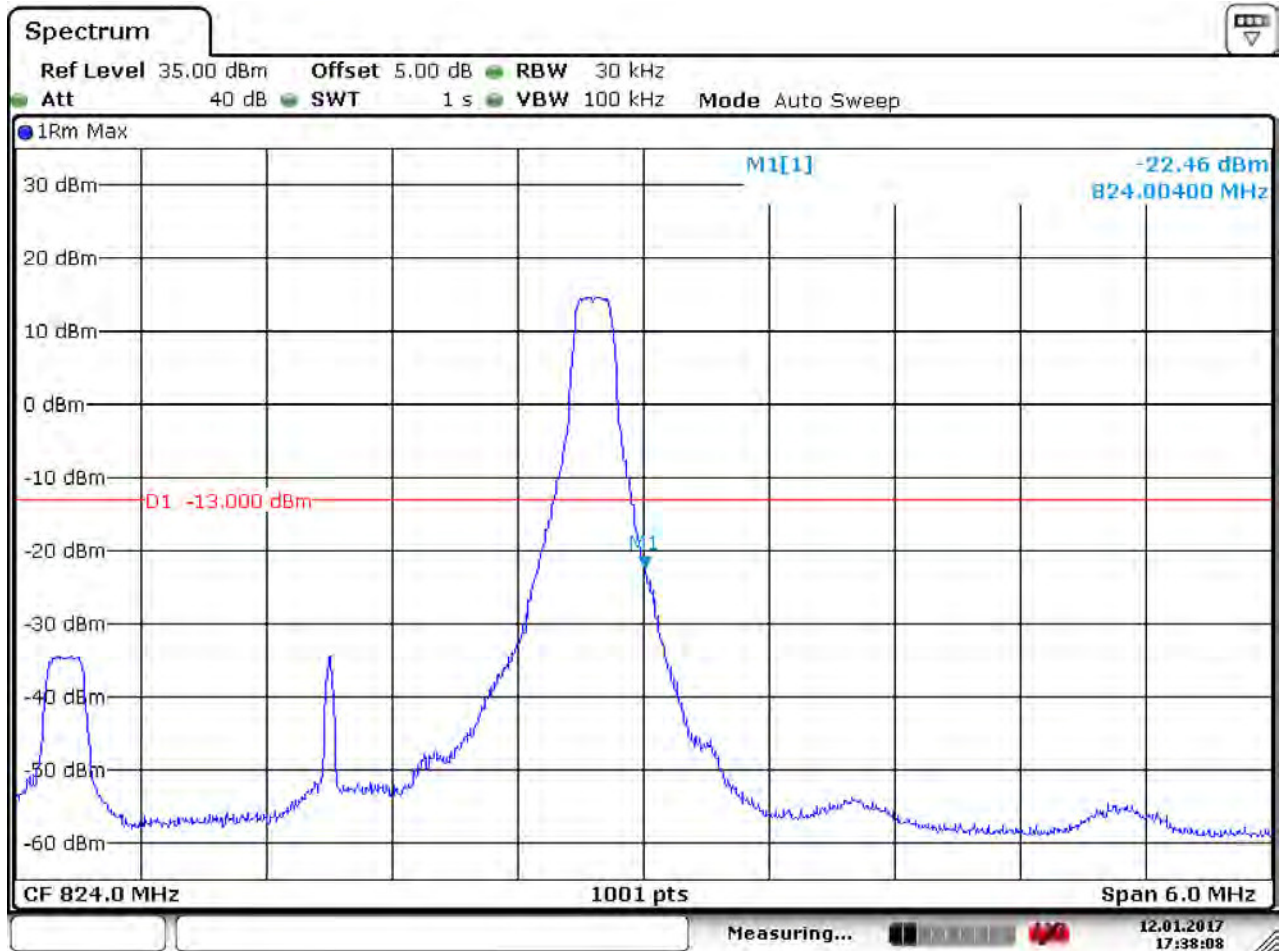
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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



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5.1.1.5.3 Test RB=15RB



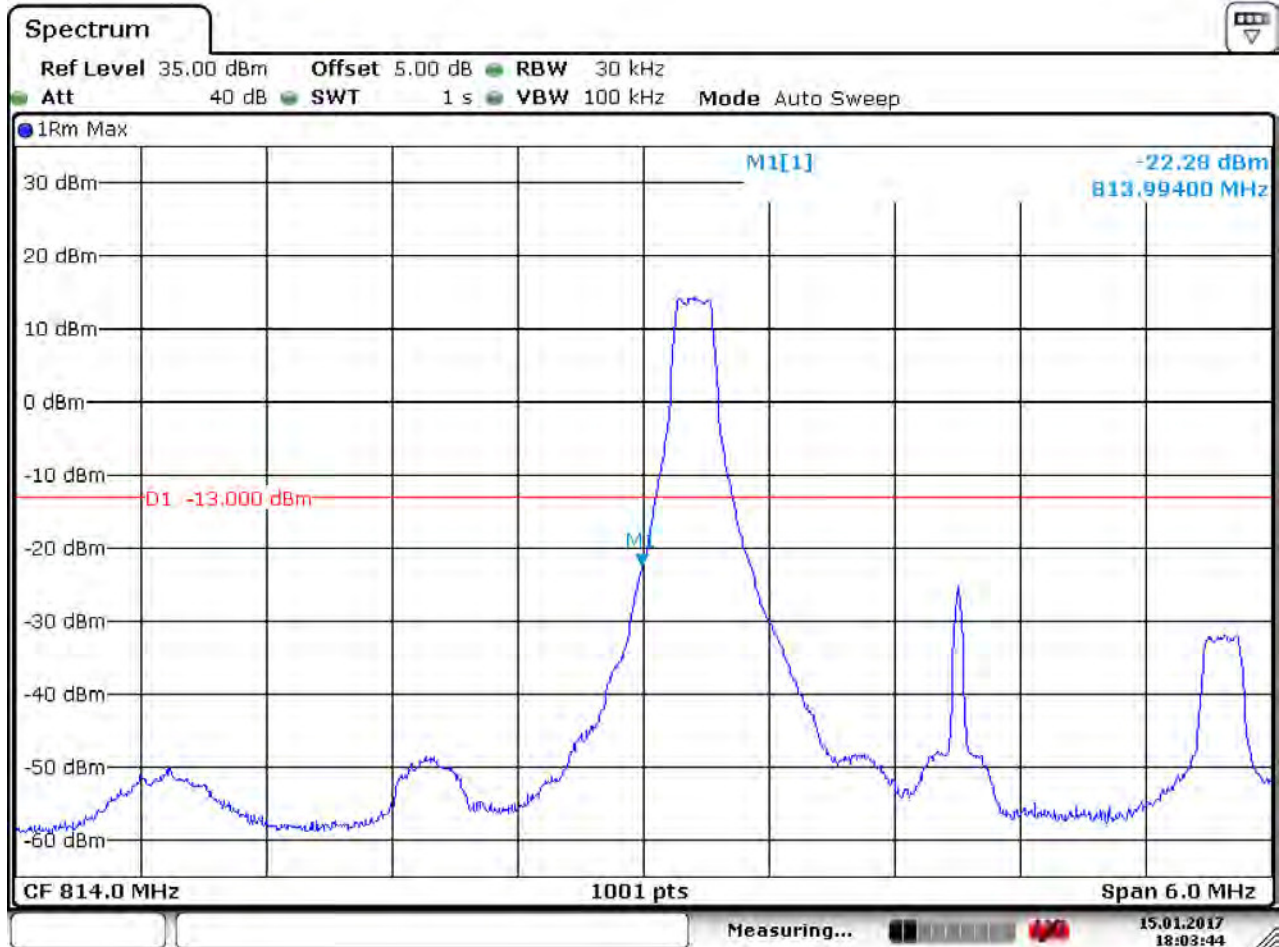
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5.1.1.6 Test Mode = LTE/TM3 3MHz

5.1.1.6.1 Test Channel = LCH

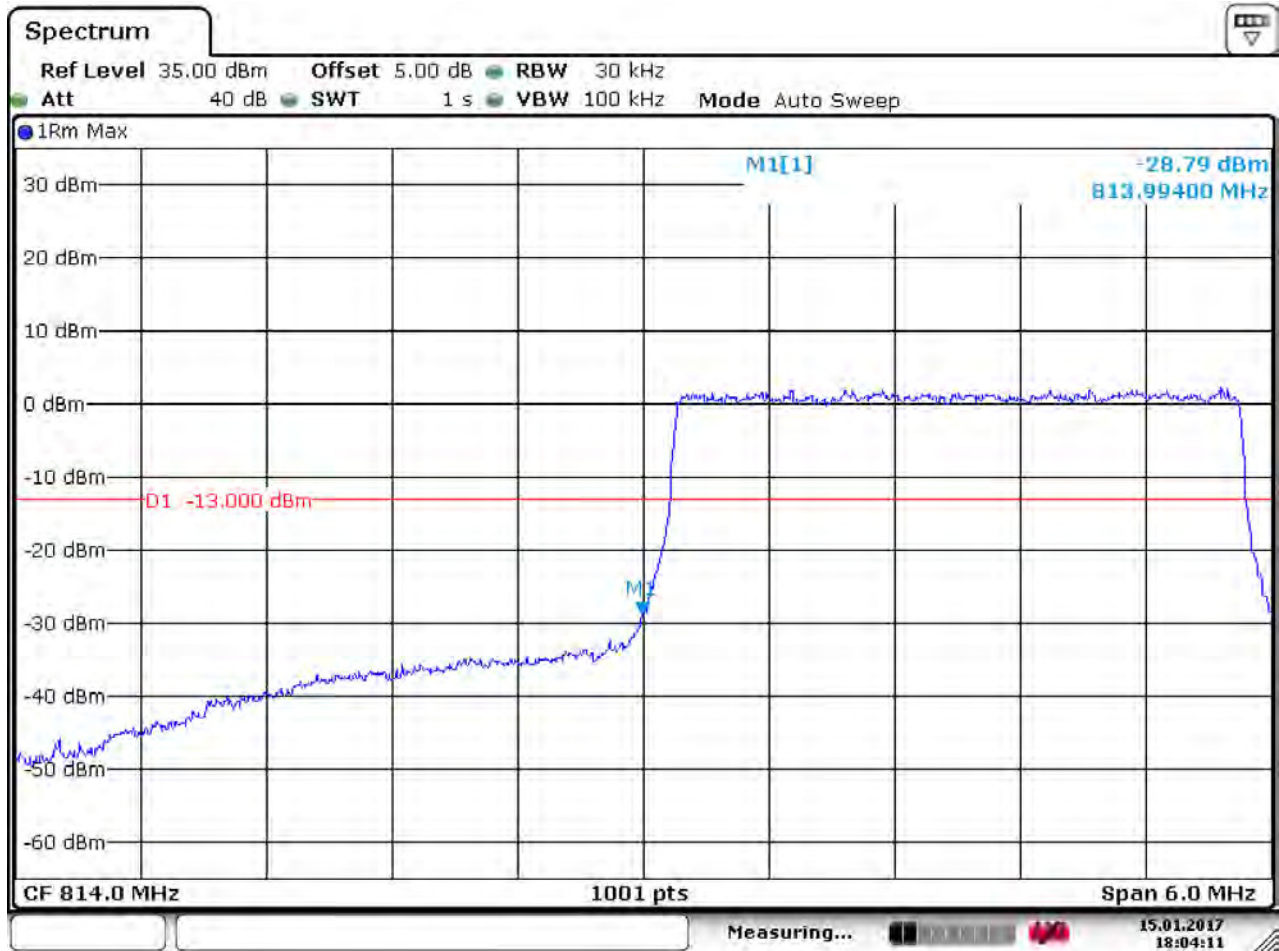
5.1.1.6.2 Test RB=1RB



Date: 15.JAN.2017 18:03:45



5.1.1.6.2.1 Test RB=15RB



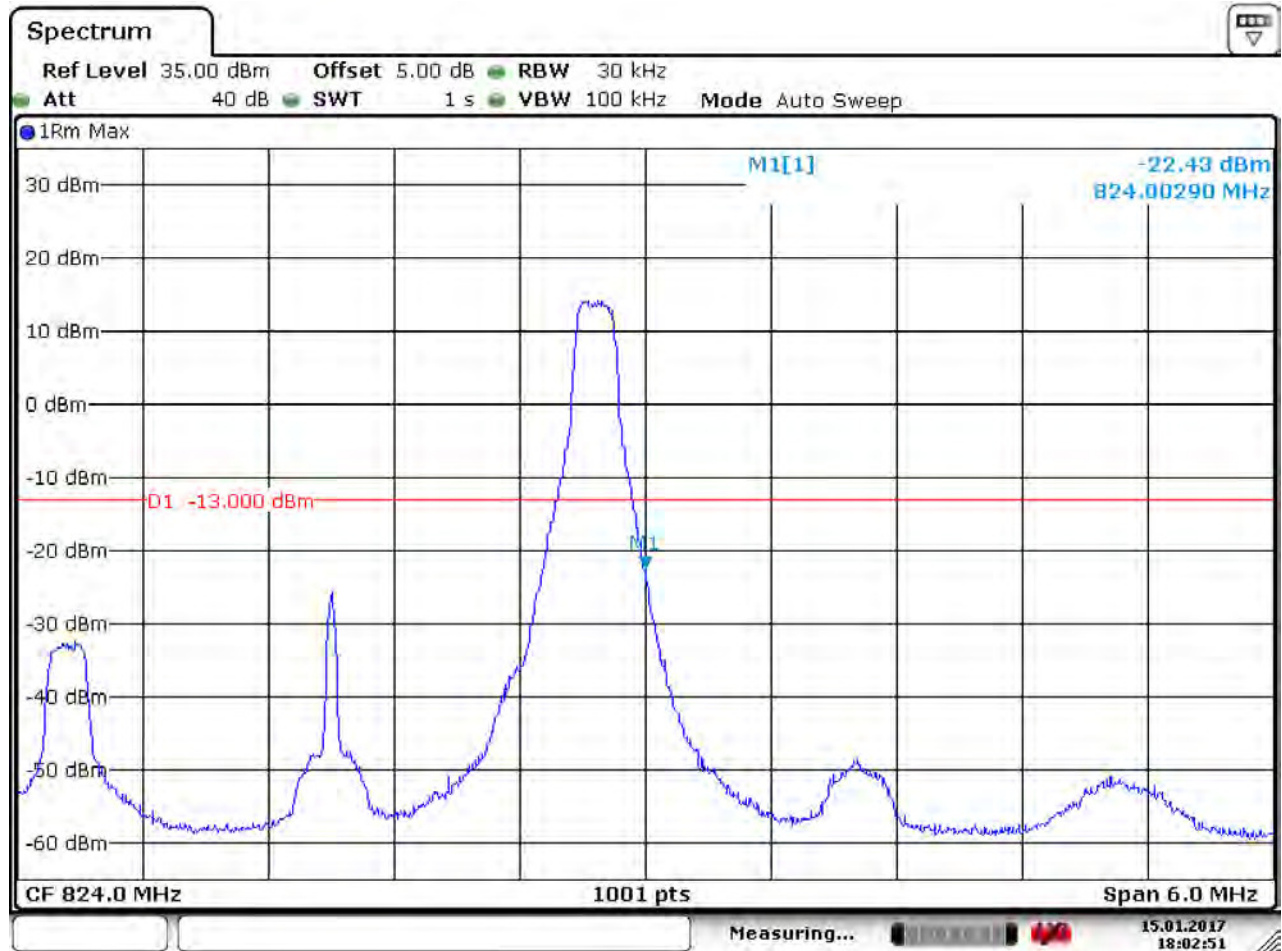
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5.1.1.6.3 Test Channel = HCH

5.1.1.6.3.1 Test RB=1RB

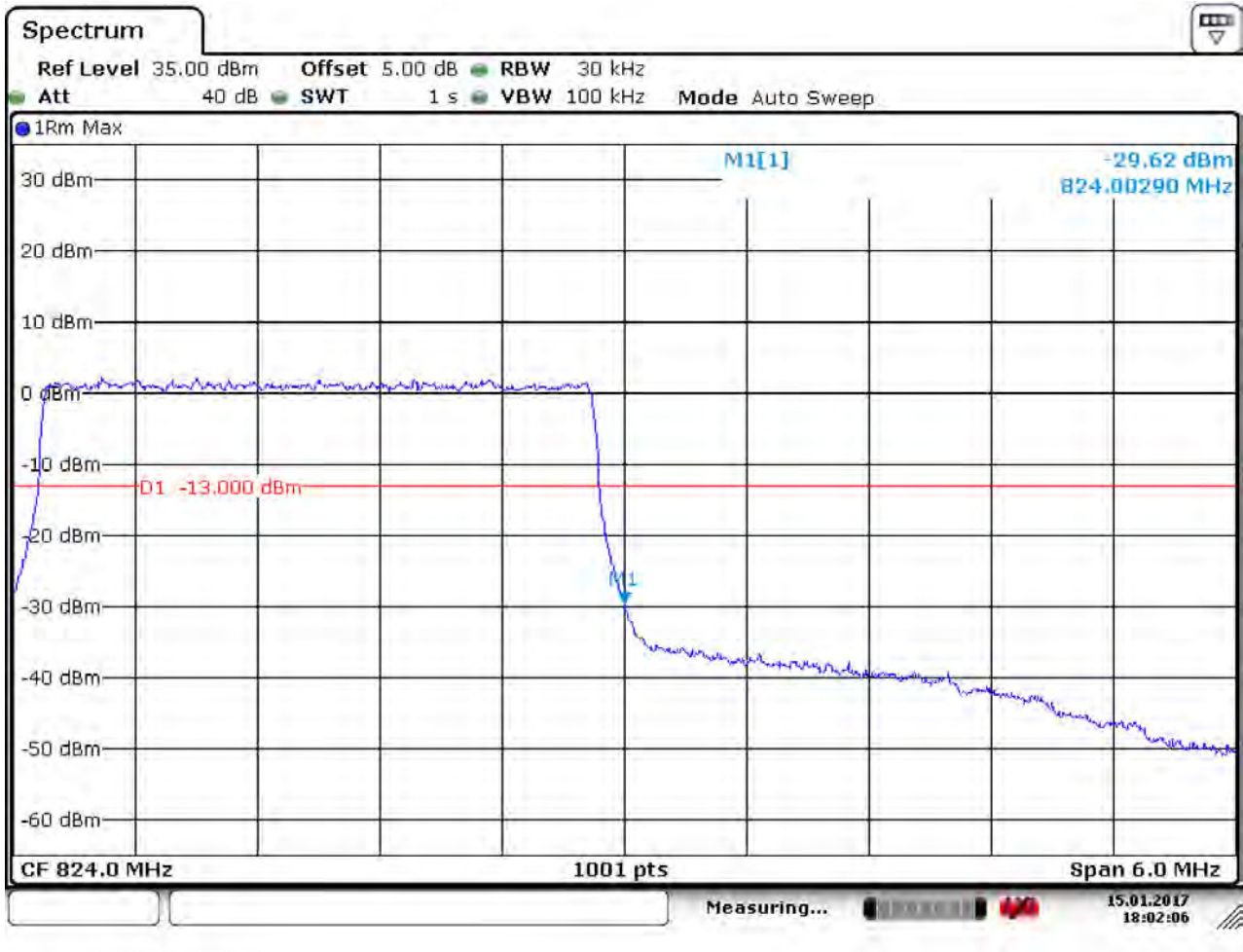


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5.1.1.6.3.2 Test RB=15RB



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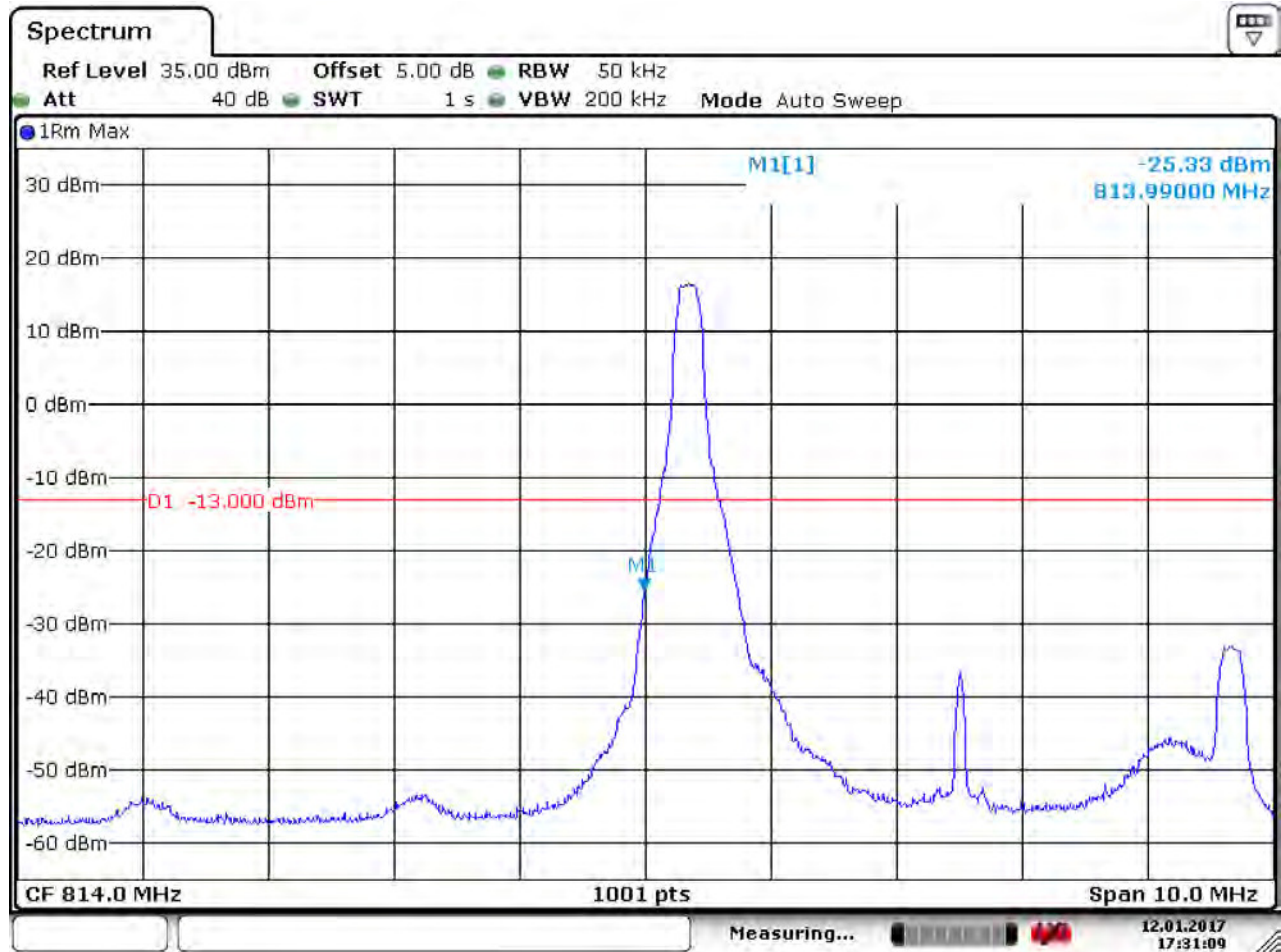
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5.1.1.7 Test Mode = LTE/TM1 5MHz

5.1.1.7.1 Test Channel = LCH

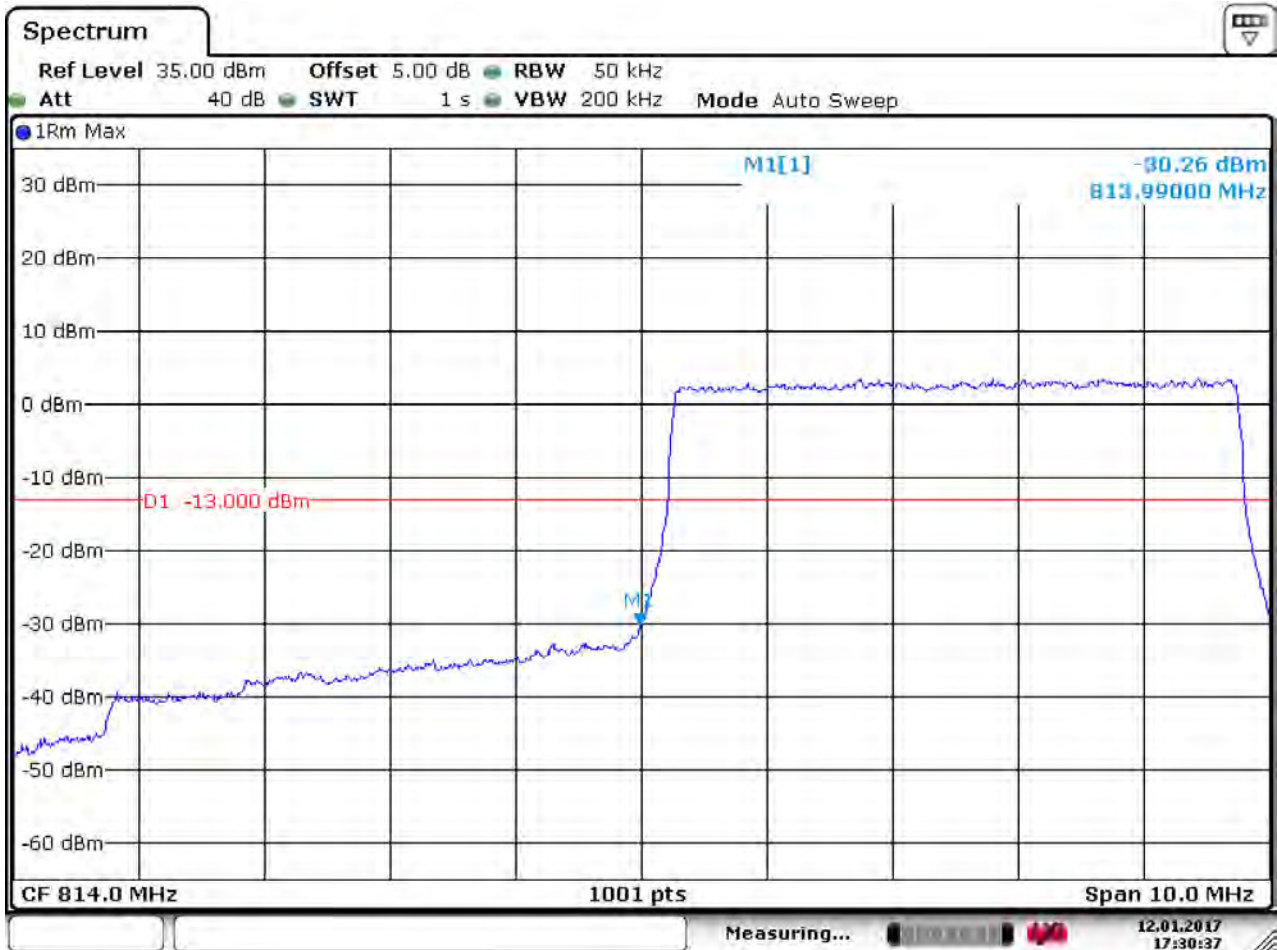
5.1.1.7.1.1 Test RB=1RB



Date: 12.JAN.2017 17:31:09



5.1.1.7.1.2 Test RB=25RB



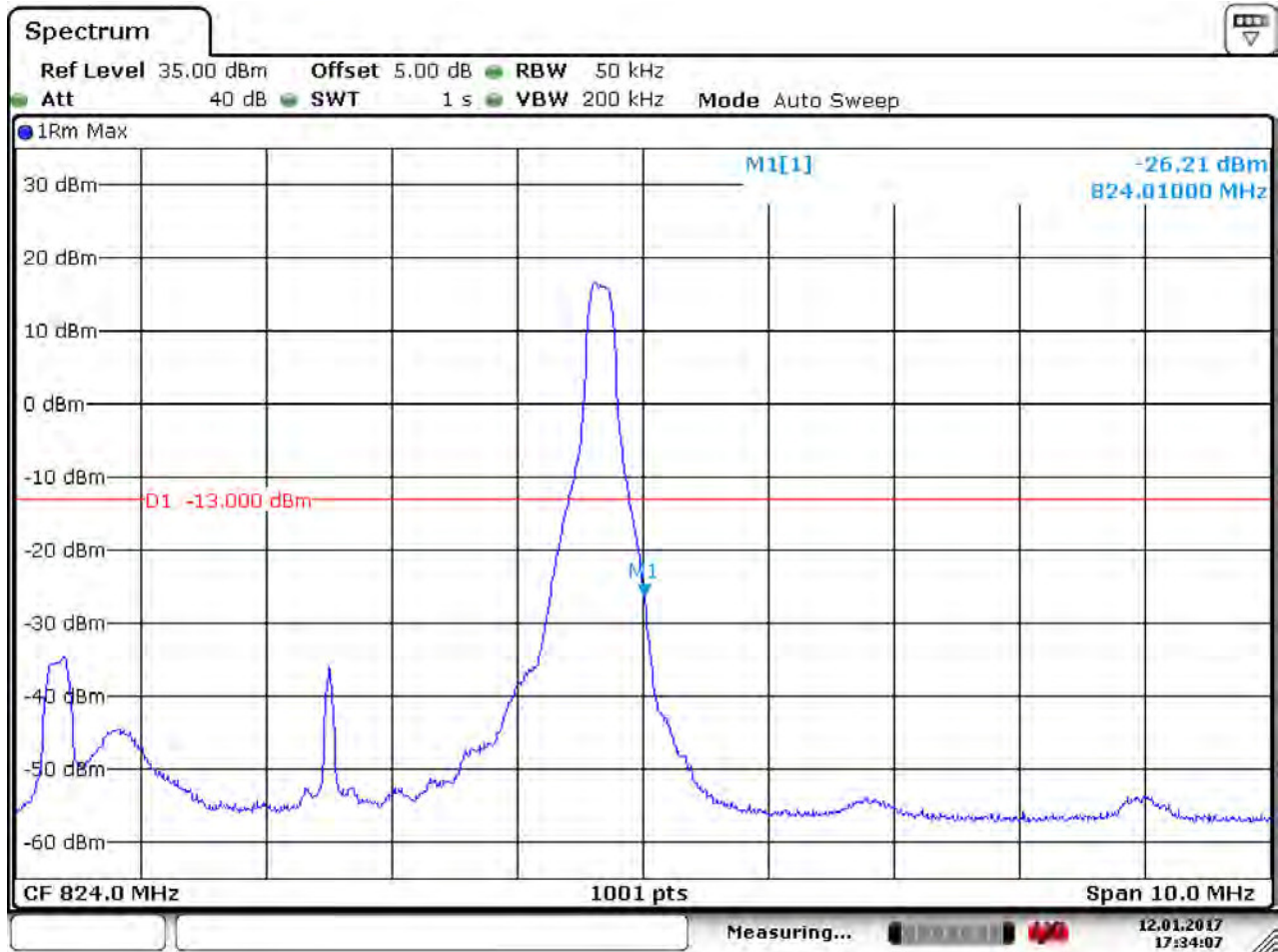
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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



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5.1.1.7.2.2 Test RB=25RB



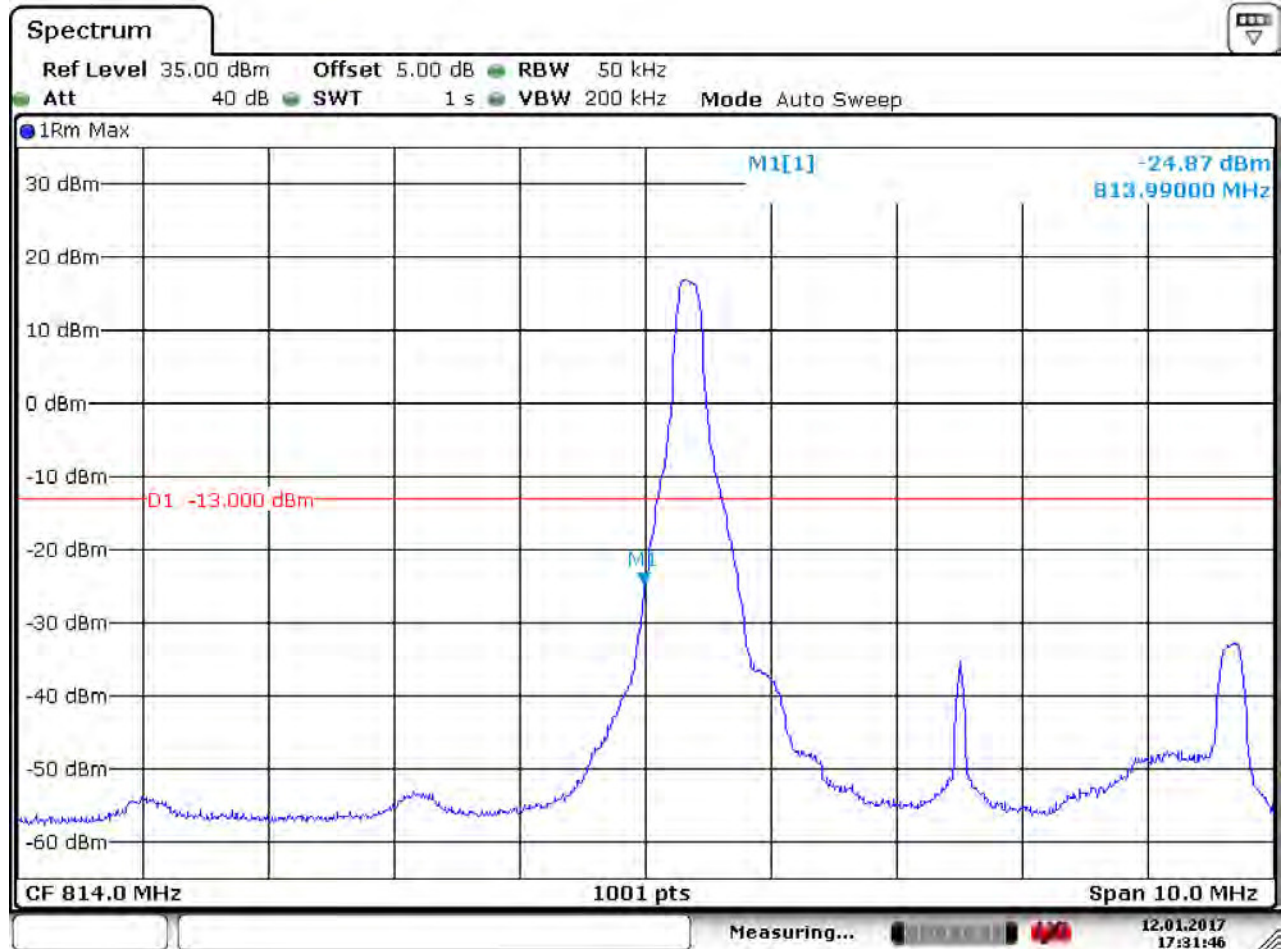
Date: 12.JAN.2017 17:34:47



5.1.1.8 Test Mode = LTE/TM2 5MHz

5.1.1.8.1 Test Channel = LCH

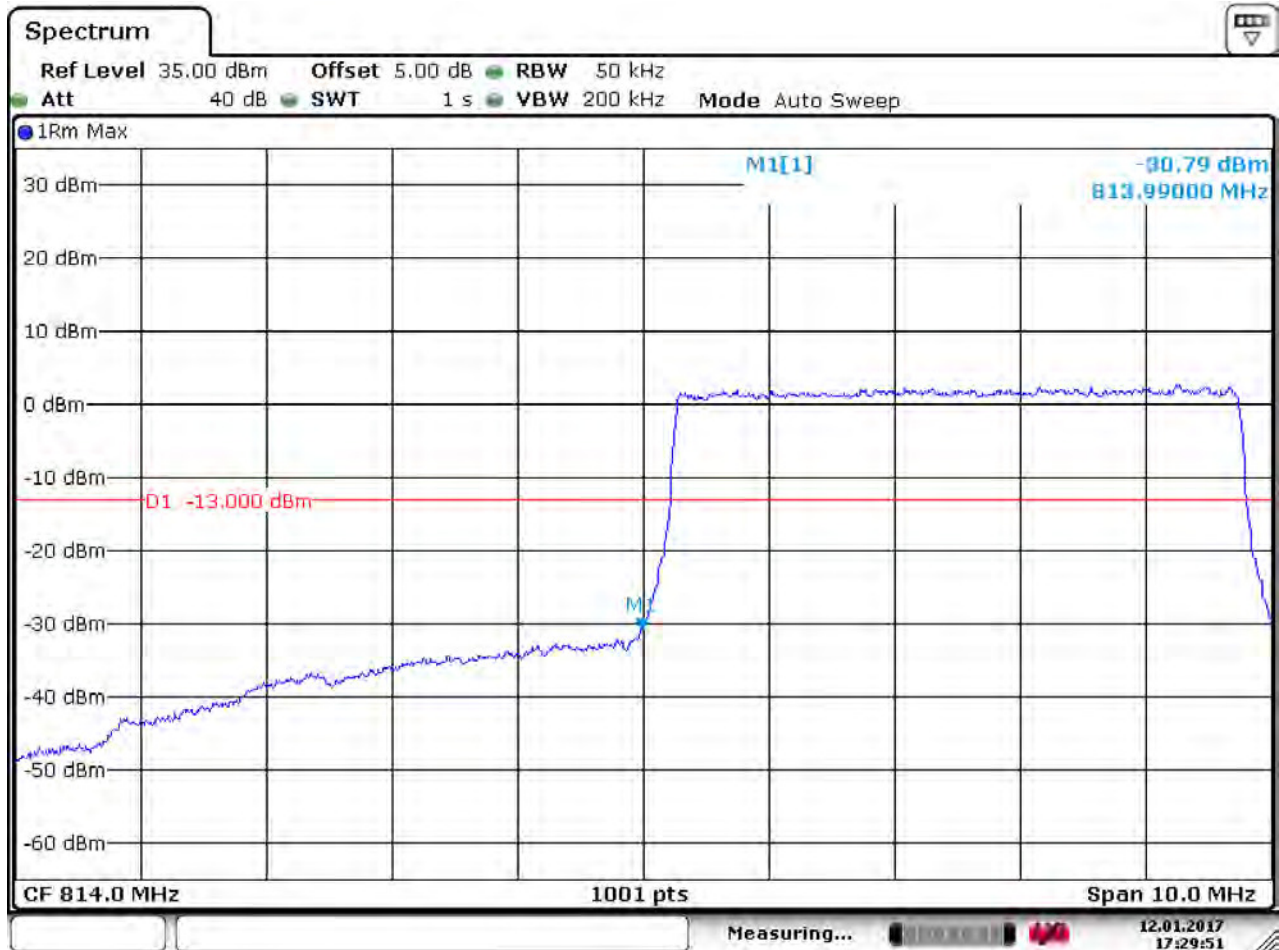
5.1.1.8.1.1 Test RB=1RB



Date: 12.JAN.2017 17:31:47



5.1.1.8.1.2 Test RB=25RB



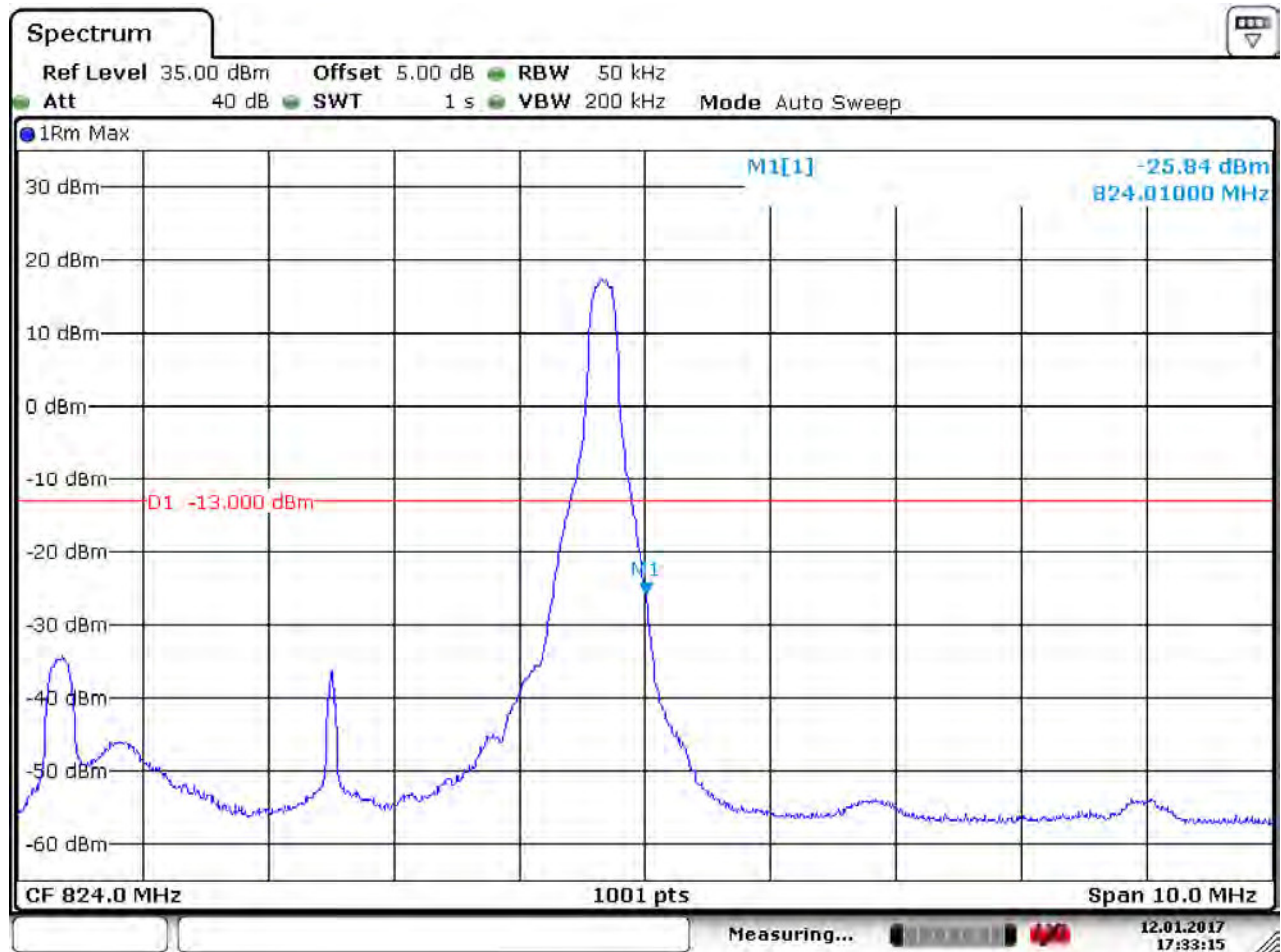
Date: 12.JAN.2017 17:29:51

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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB

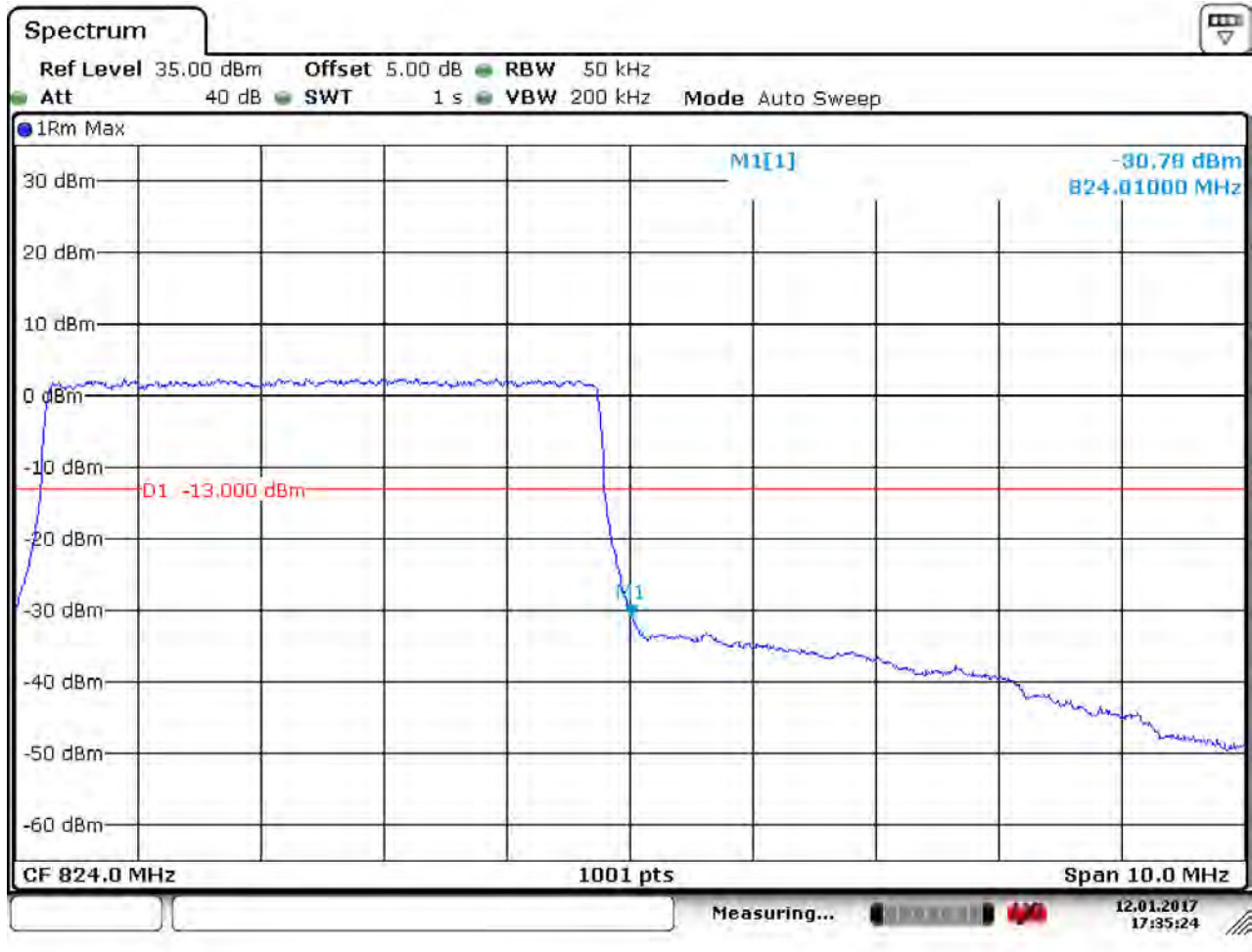


Date: 12.JAN.2017 17:33:16

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5.1.1.8.2.2 Test RB=25RB



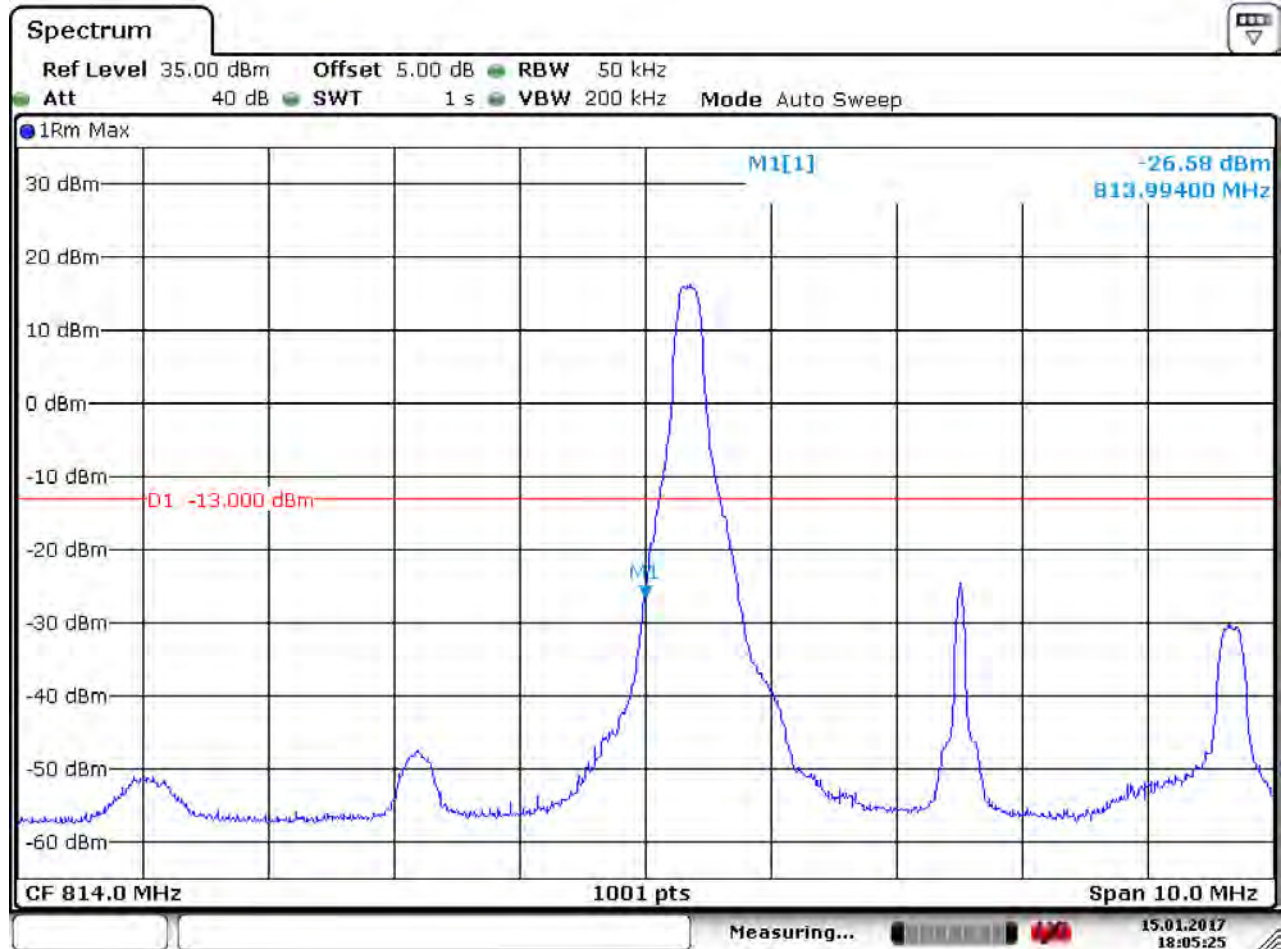
Date: 12.JAN.2017 17:35:25



5.1.1.9 Test Mode = LTE/TM3 5MHz

5.1.1.9.1 Test Channel = LCH

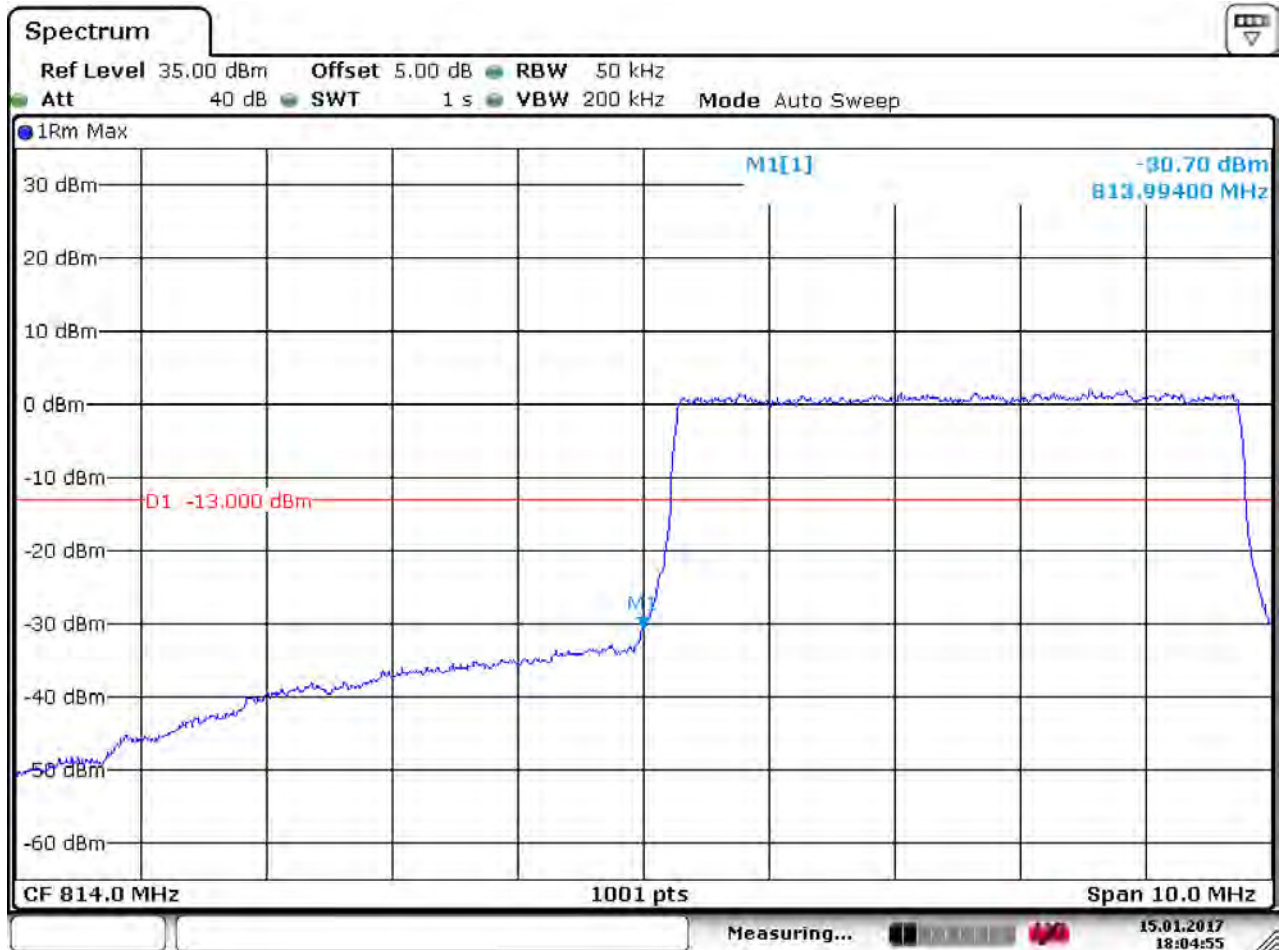
5.1.1.9.1.1 Test RB=1RB



Date: 15.JAN.2017 18:05:26



5.1.1.9.1.2 Test RB=25RB



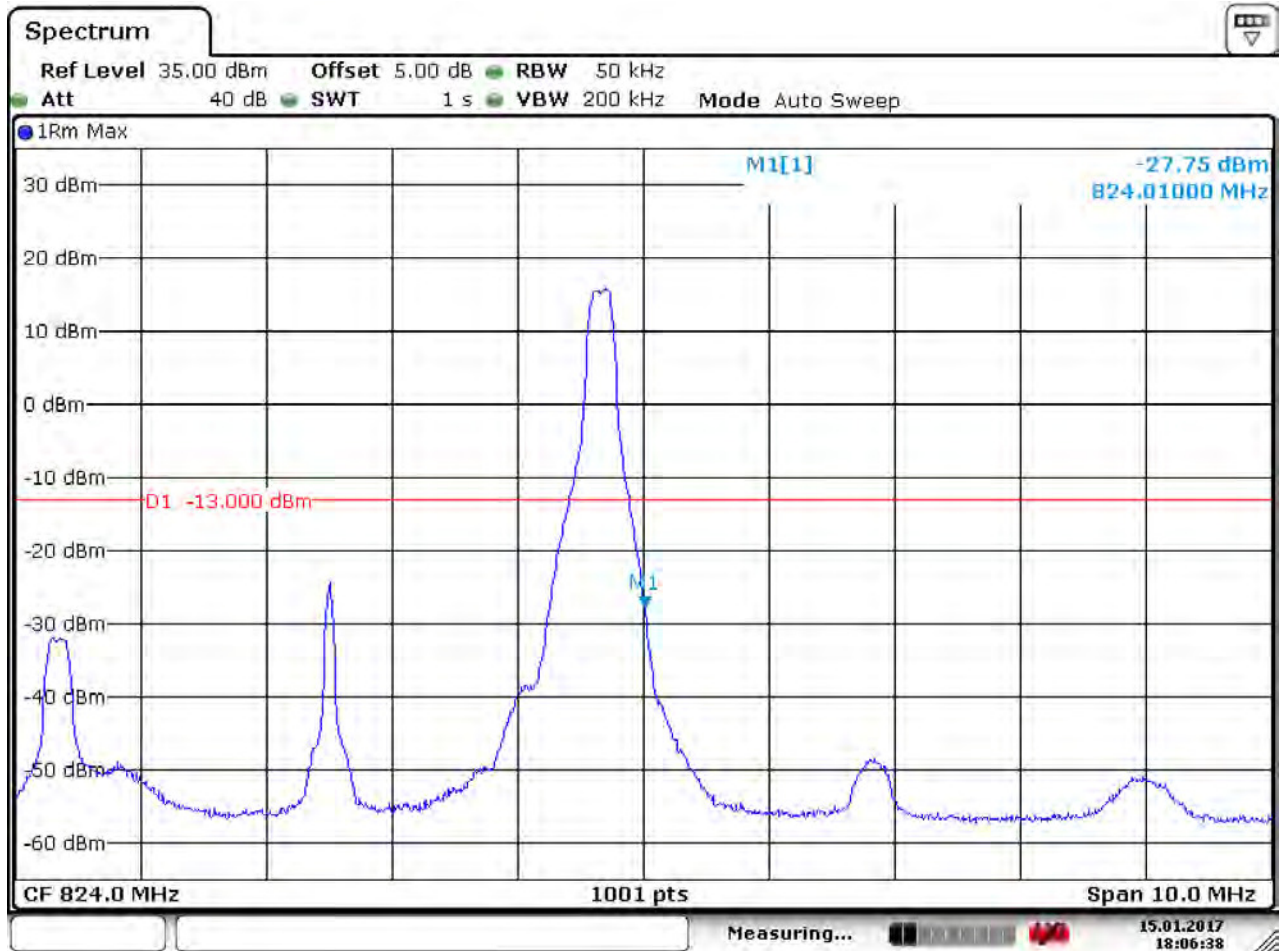
Date: 15, JAN. 2017 18:04:55

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5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB

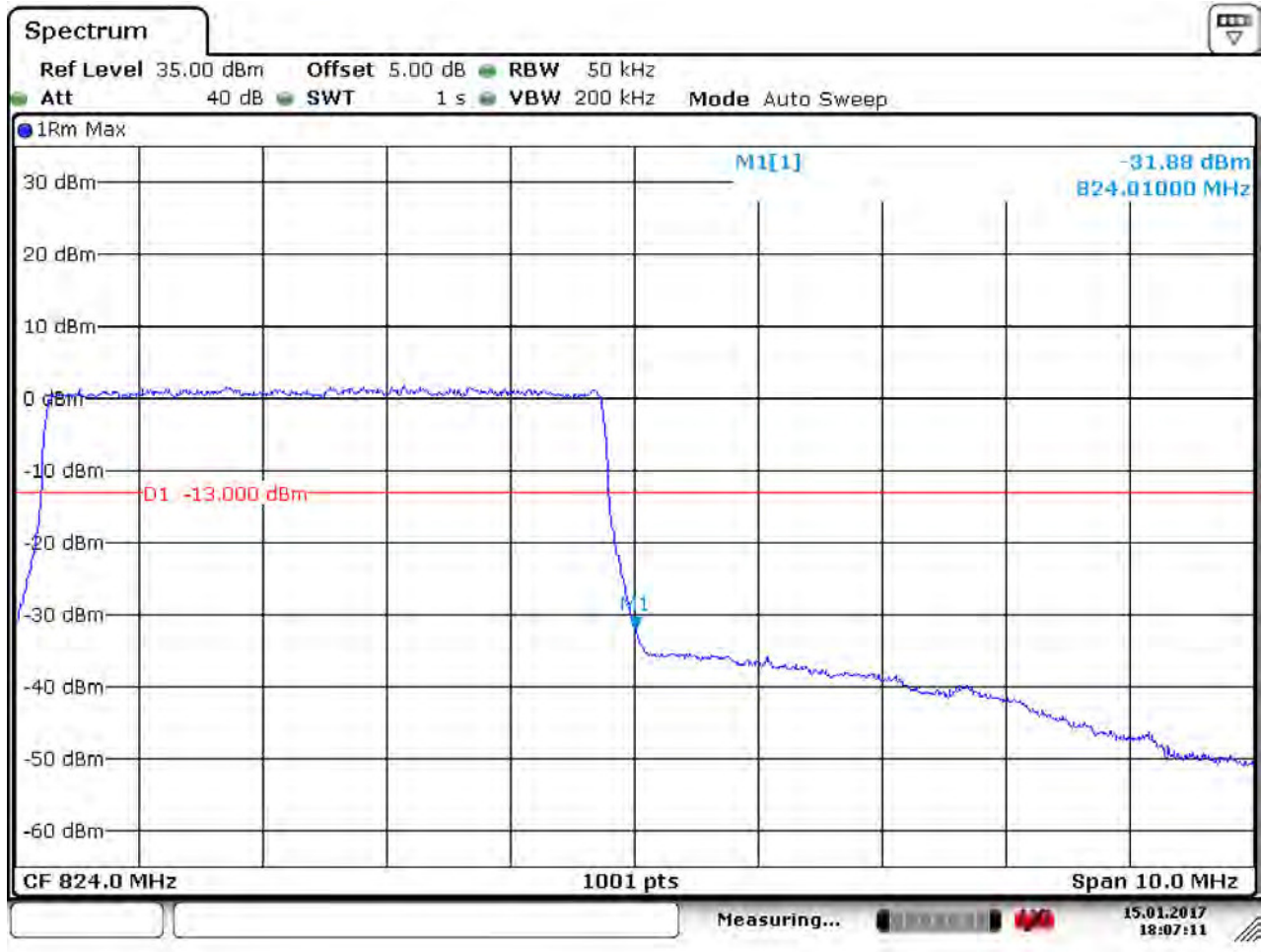


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5.1.1.9.2.2 Test RB=25RB



Date: 15, JAN. 2017 18:07:11

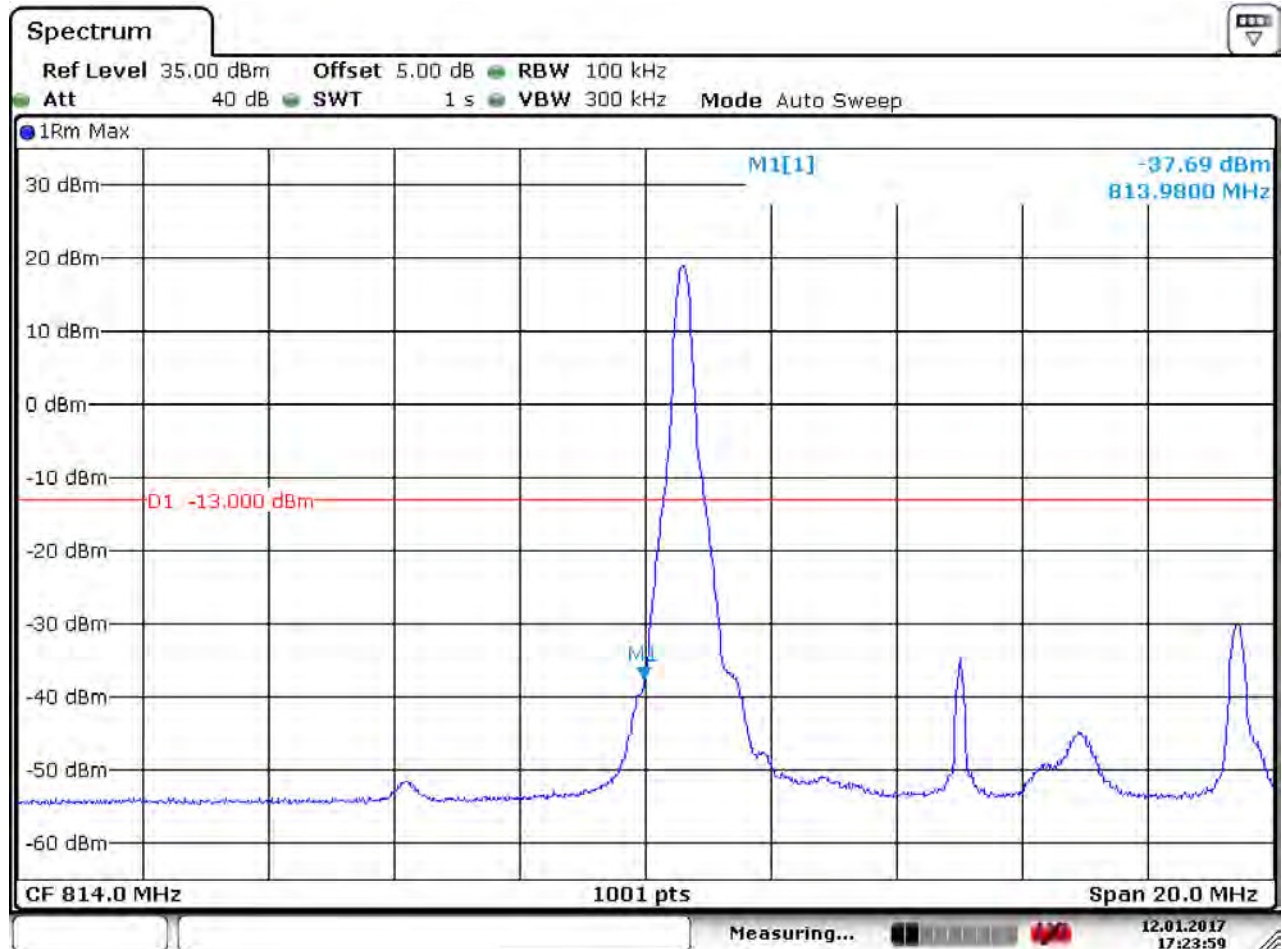
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5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB

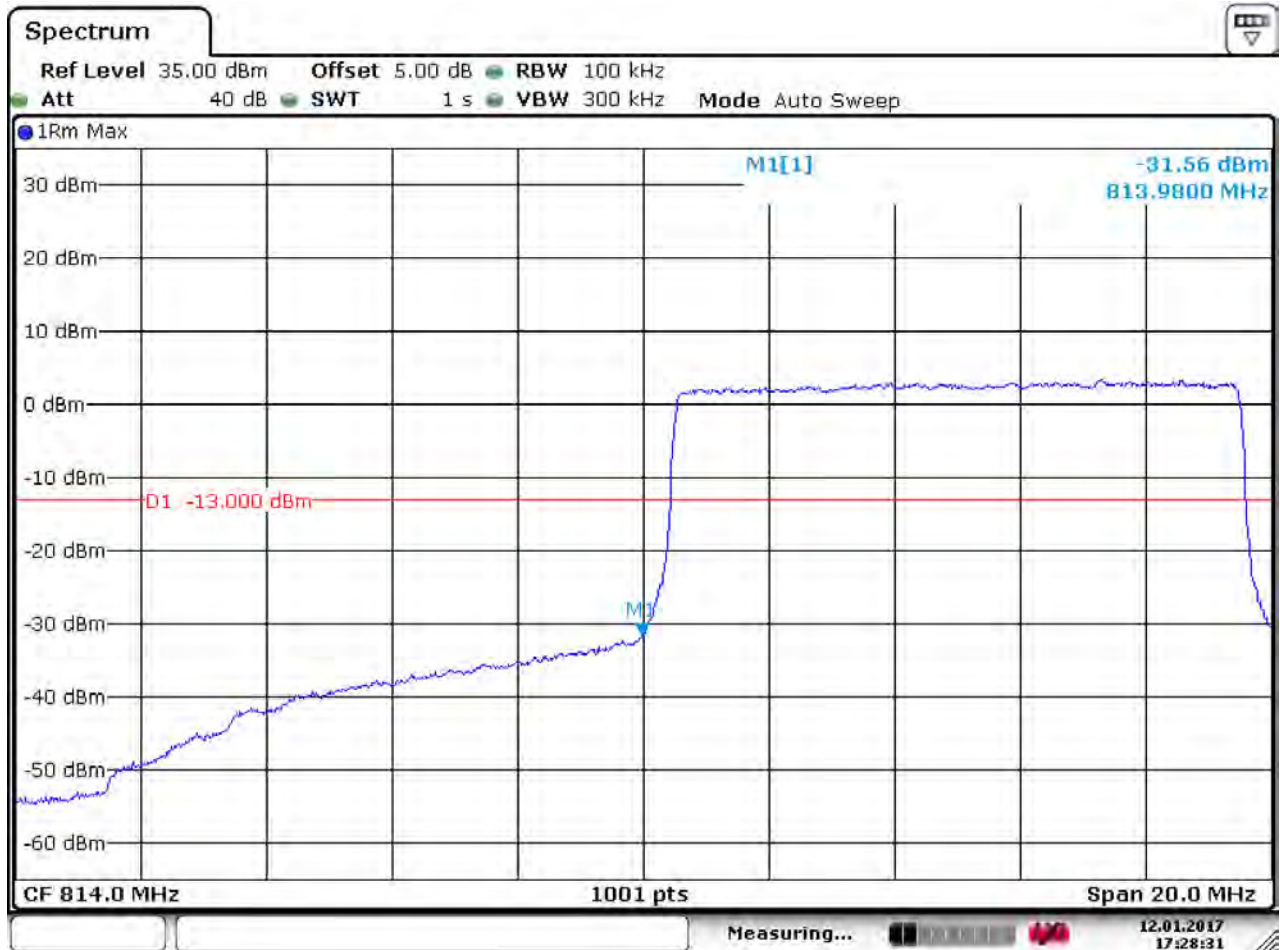


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5.1.1.10.1.2 Test RB=50RB

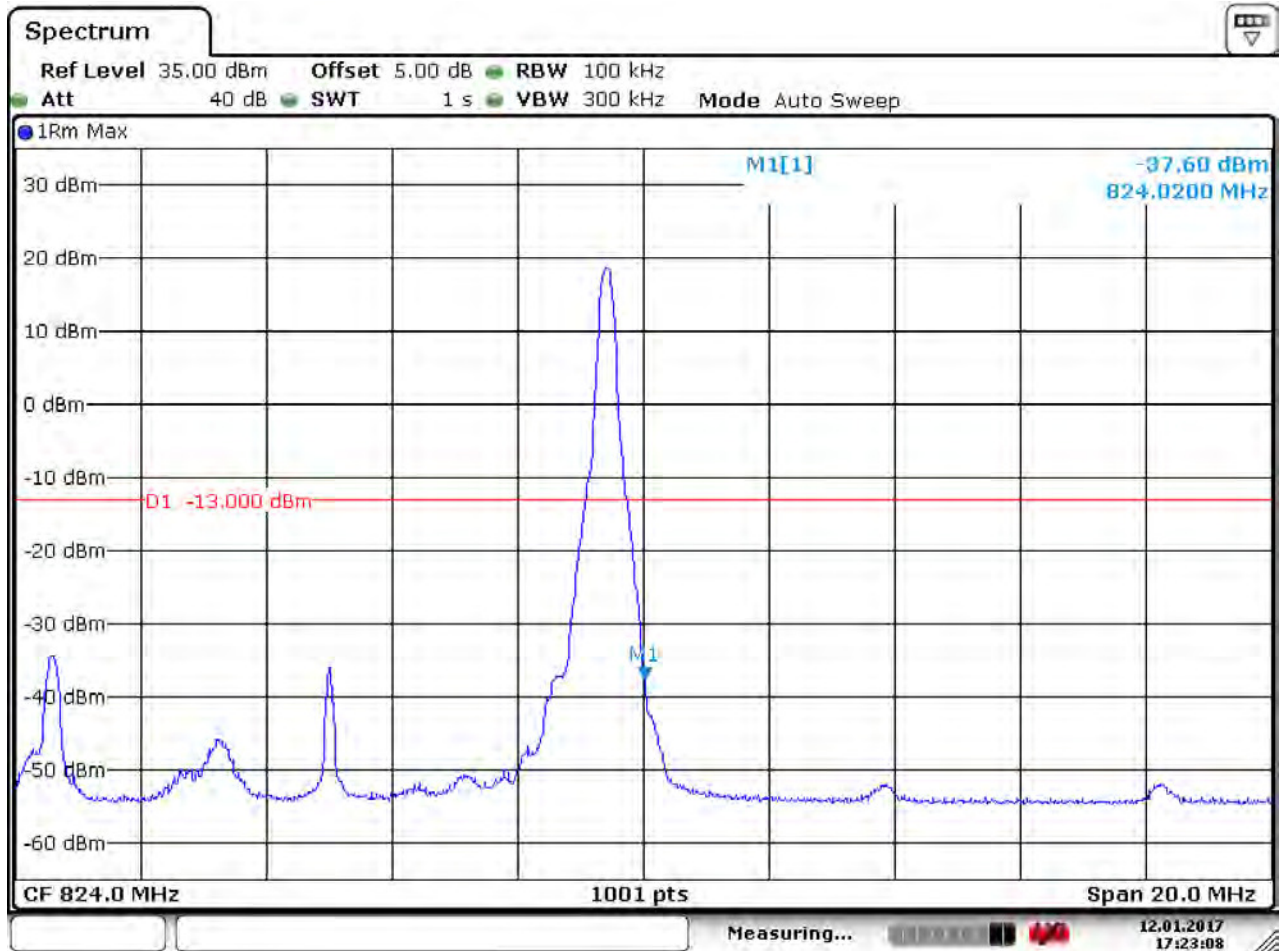


Date: 12.JAN.2017 17:28:31



5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



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5.1.1.10.2.2 Test RB=50RB



Date: 12.JAN.2017 17:21:20

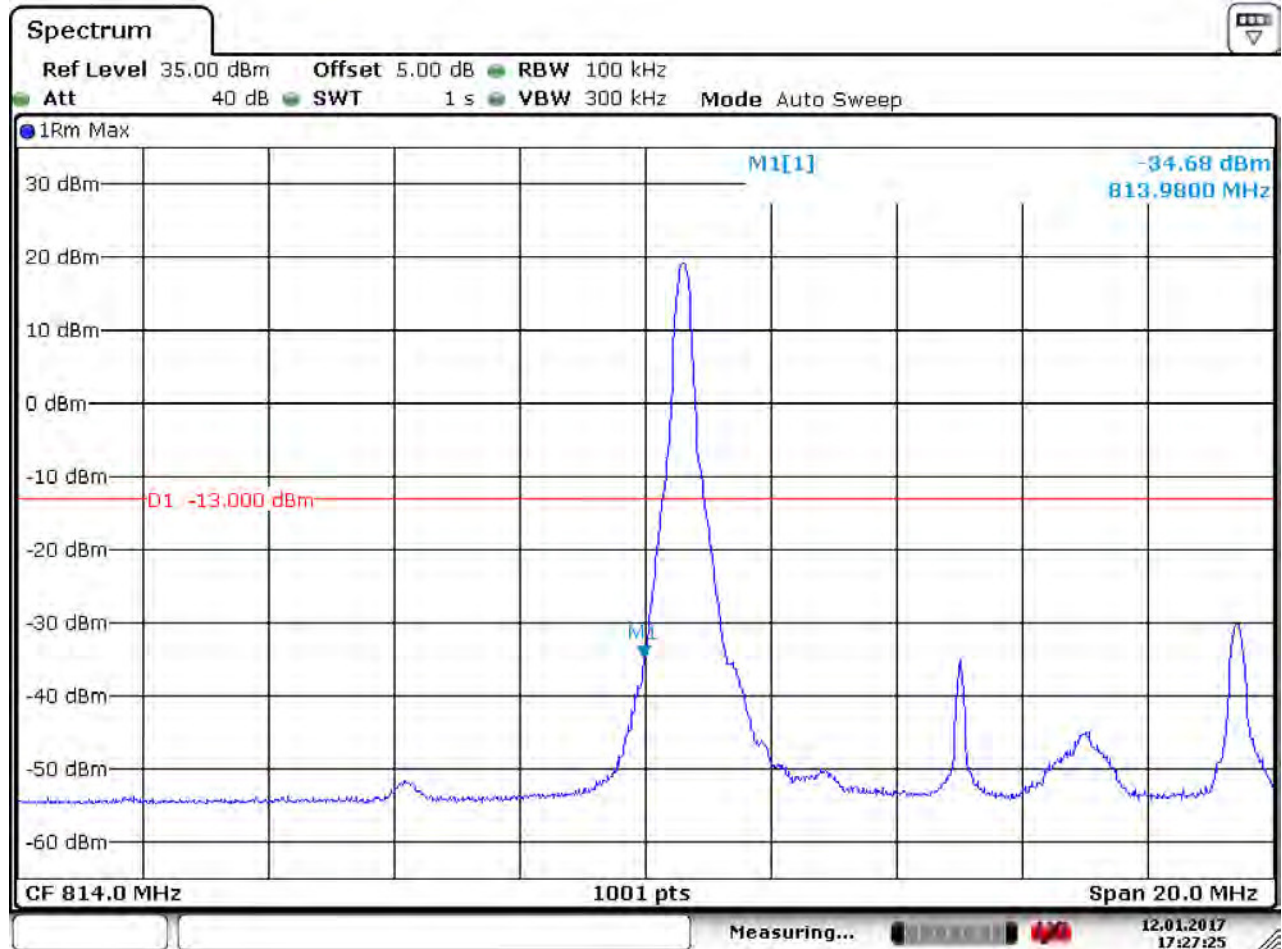
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5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

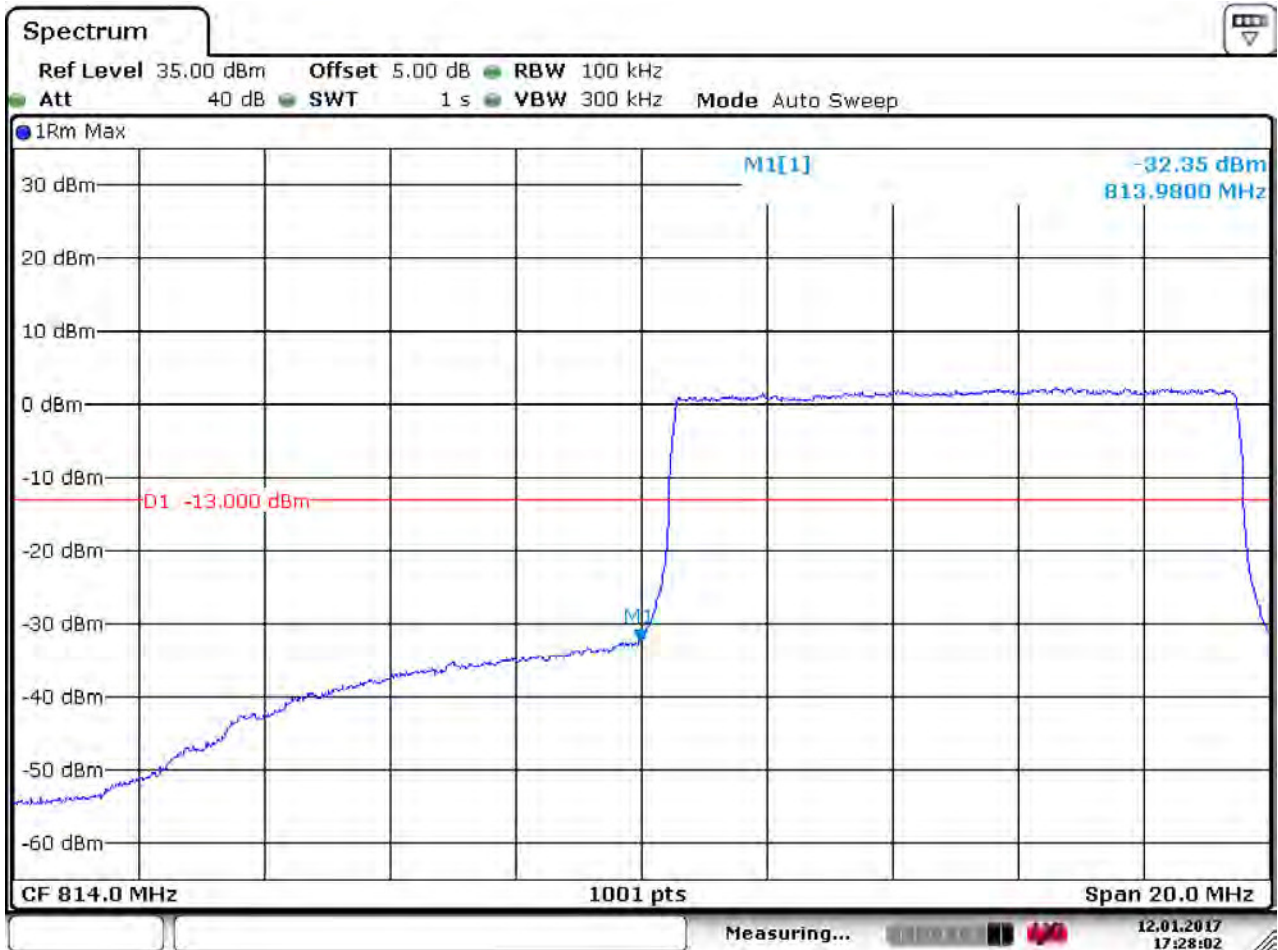
5.1.1.11.1.1 Test RB=1RB



Date: 12.JAN.2017 17:27:25



5.1.1.11.1.2 Test RB=50RB



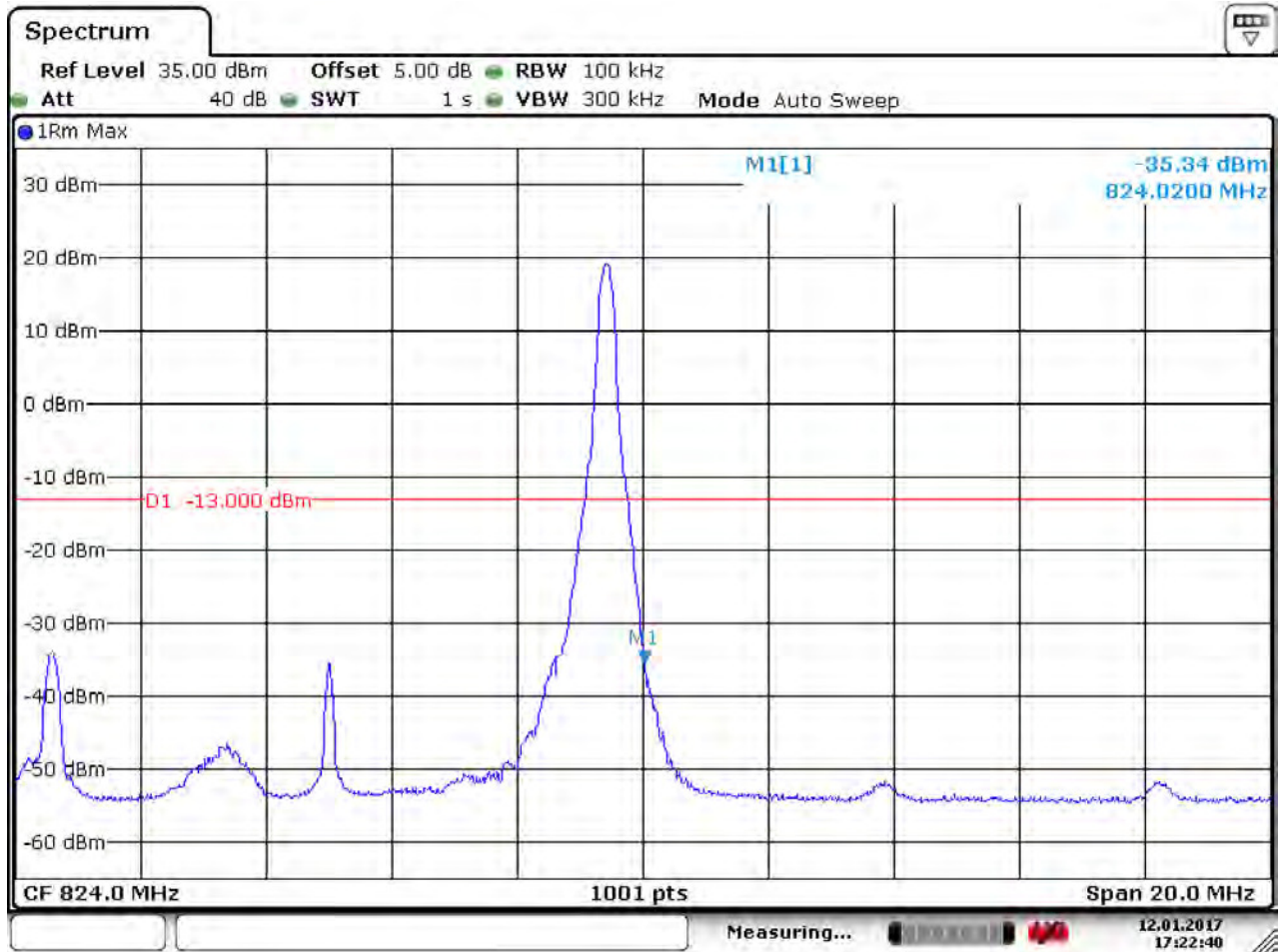
Date: 12.JAN.2017 17:28:03

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5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB

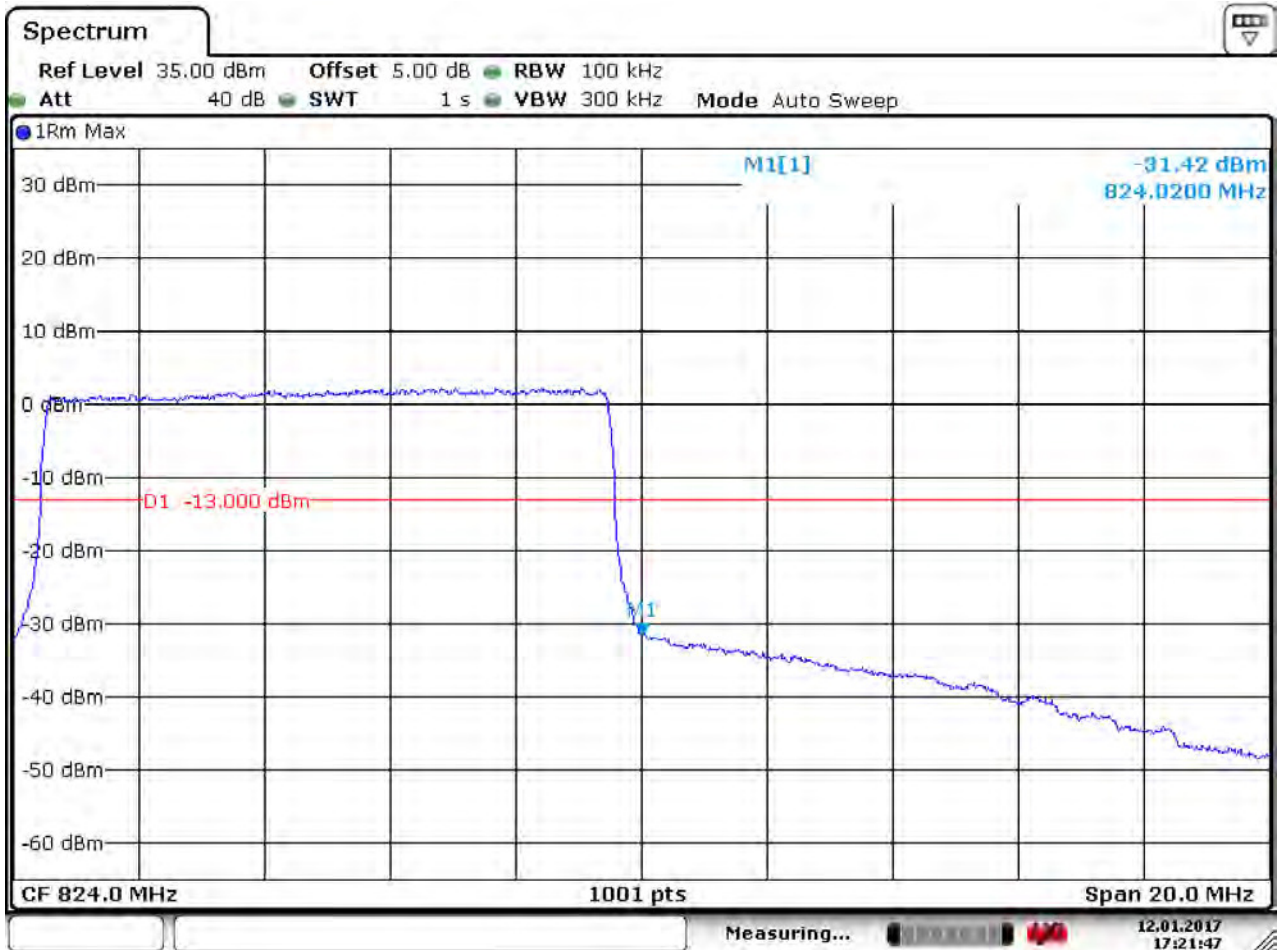


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5.1.1.11.2.2 Test RB=50RB



Date: 12.JAN.2017 17:21:47

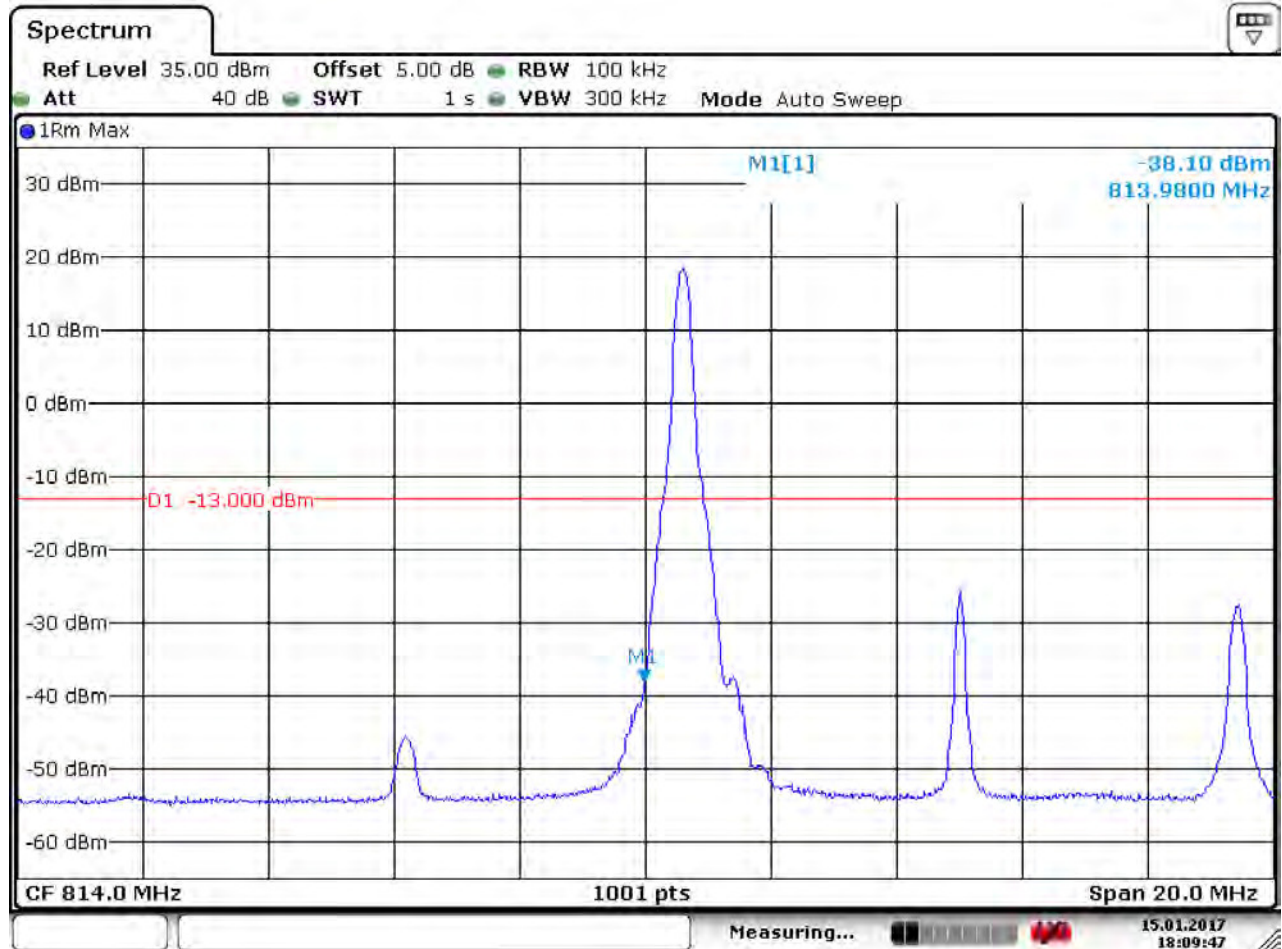
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5.1.1.12 Test Mode = LTE/TM3 10MHz

5.1.1.12.1 Test Channel = LCH

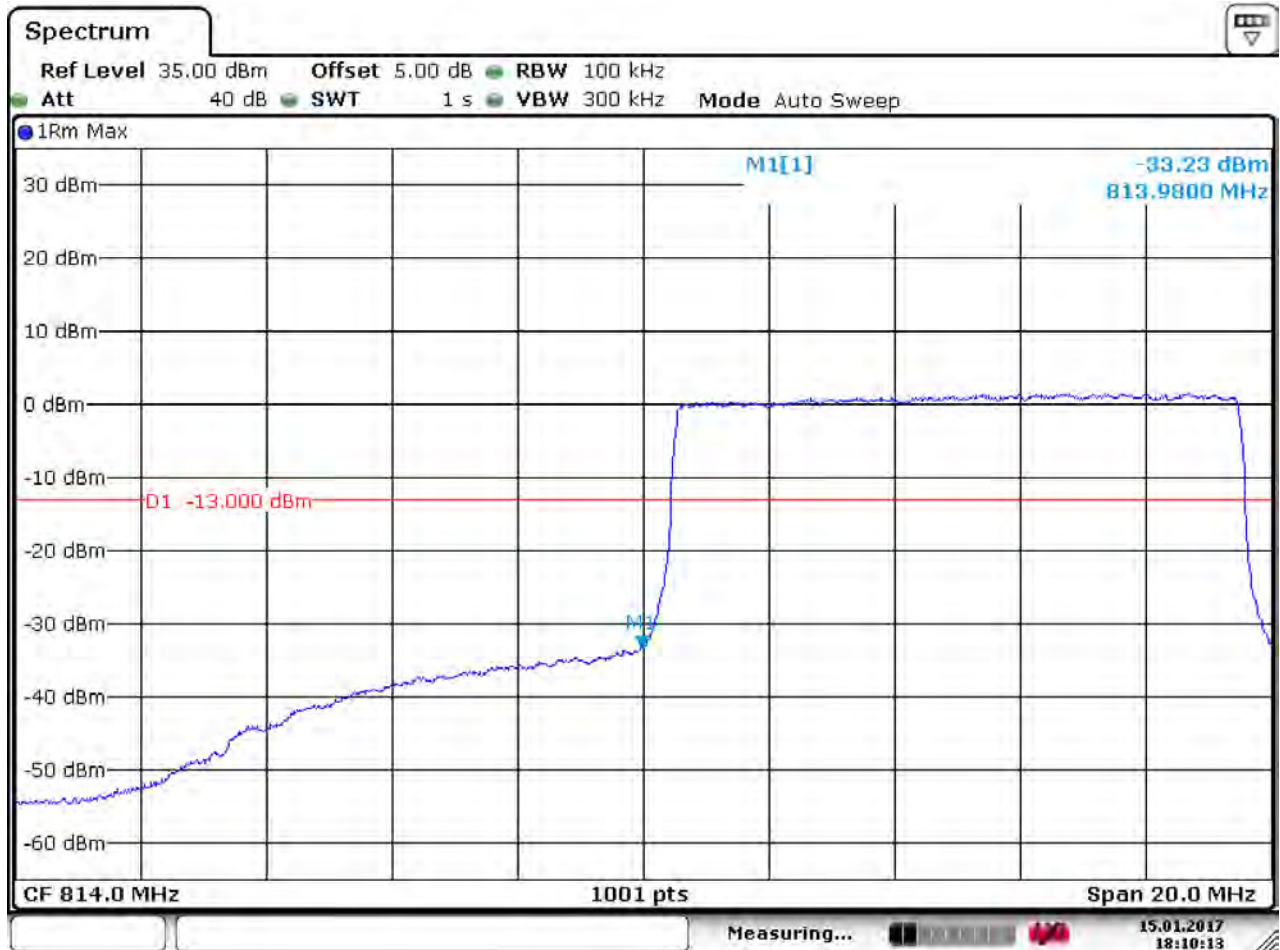
5.1.1.12.1.1 Test RB=1RB



Date: 15.JAN.2017 18:09:47



5.1.1.12.1.2 Test RB=50RB

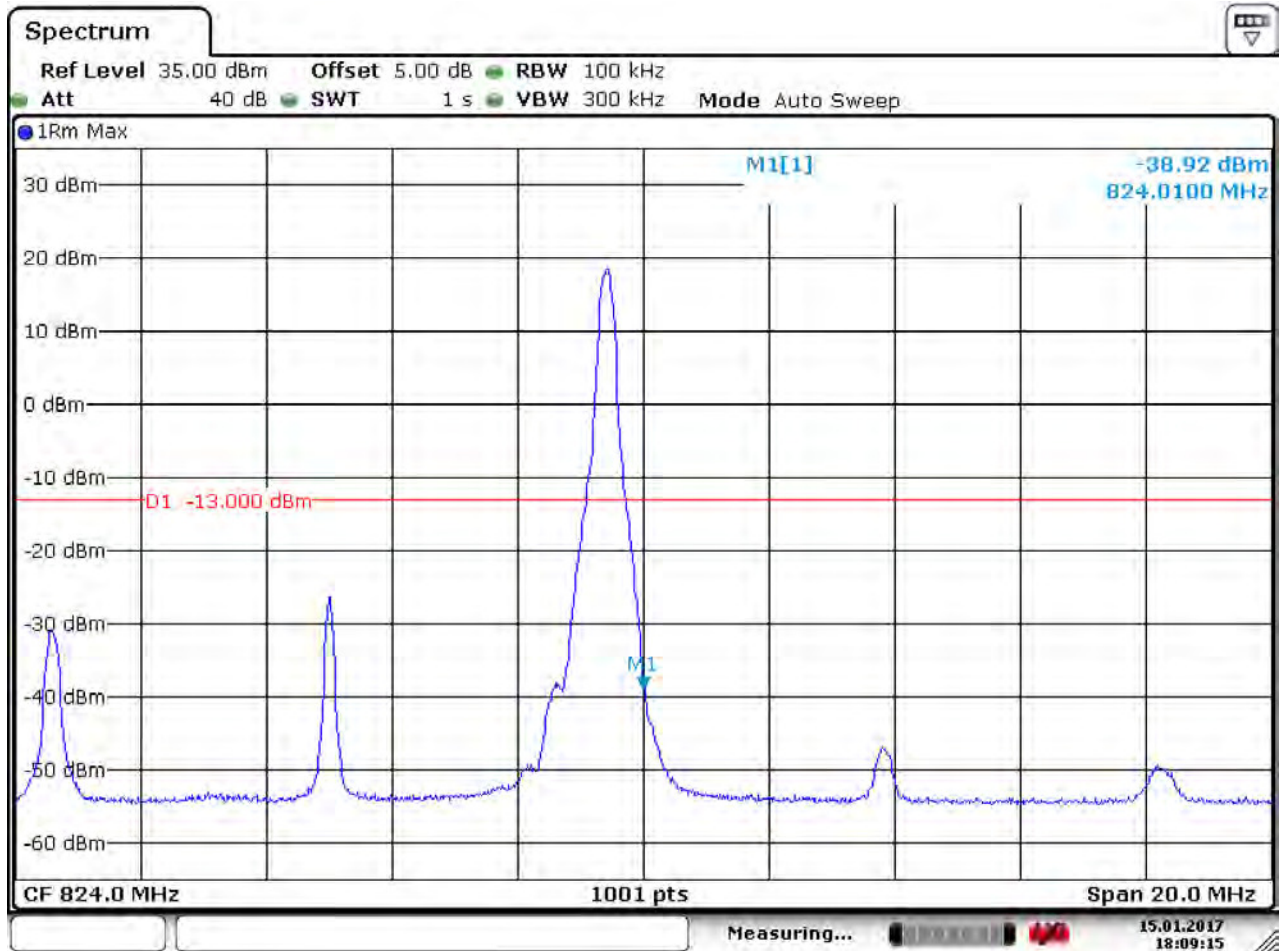


Date: 15, JAN. 2017 18:10:14



5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB

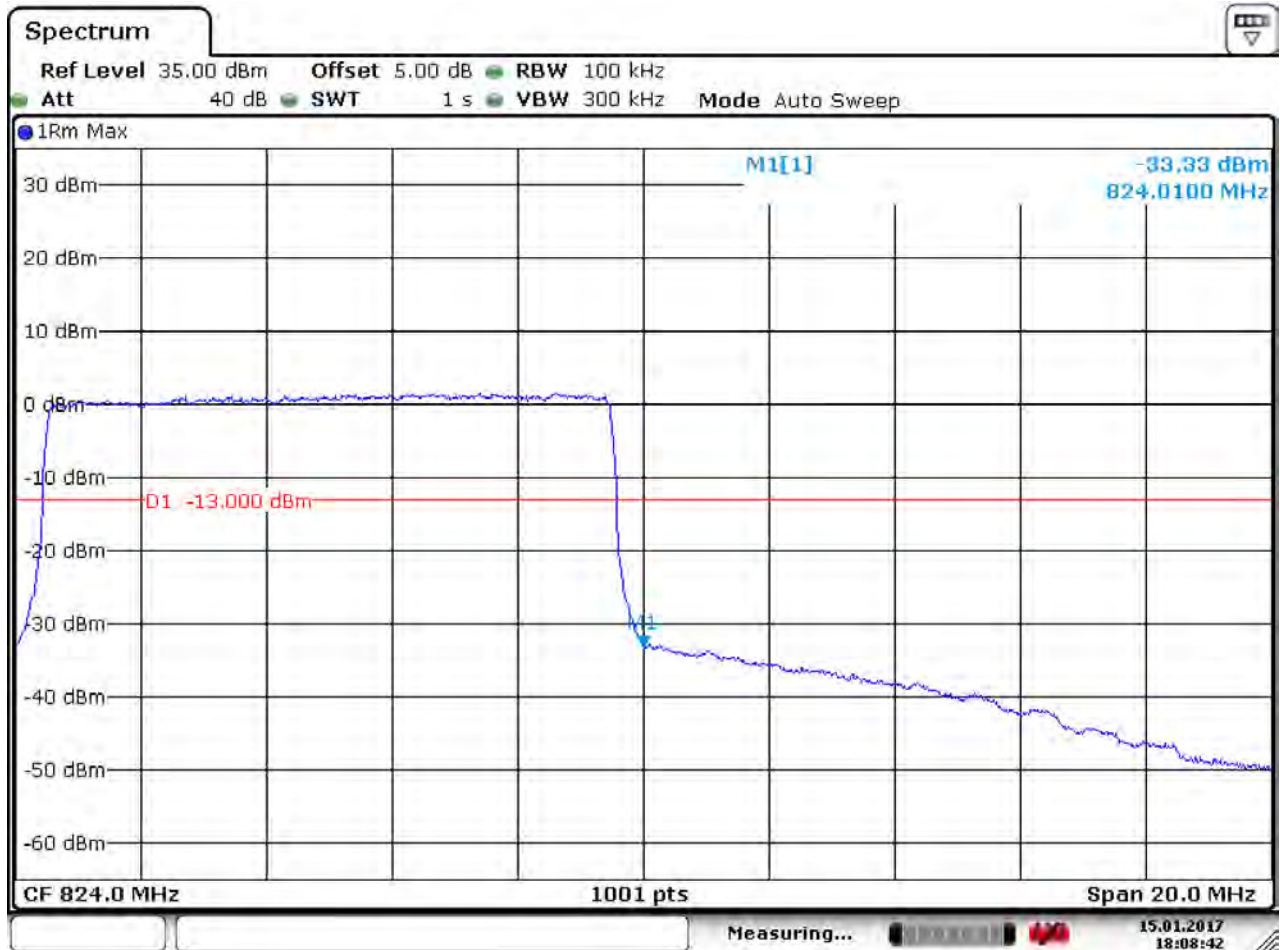


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5.1.1.12.2.2 Test RB=50RB



Date: 15, JAN. 2017 18:08:43

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.

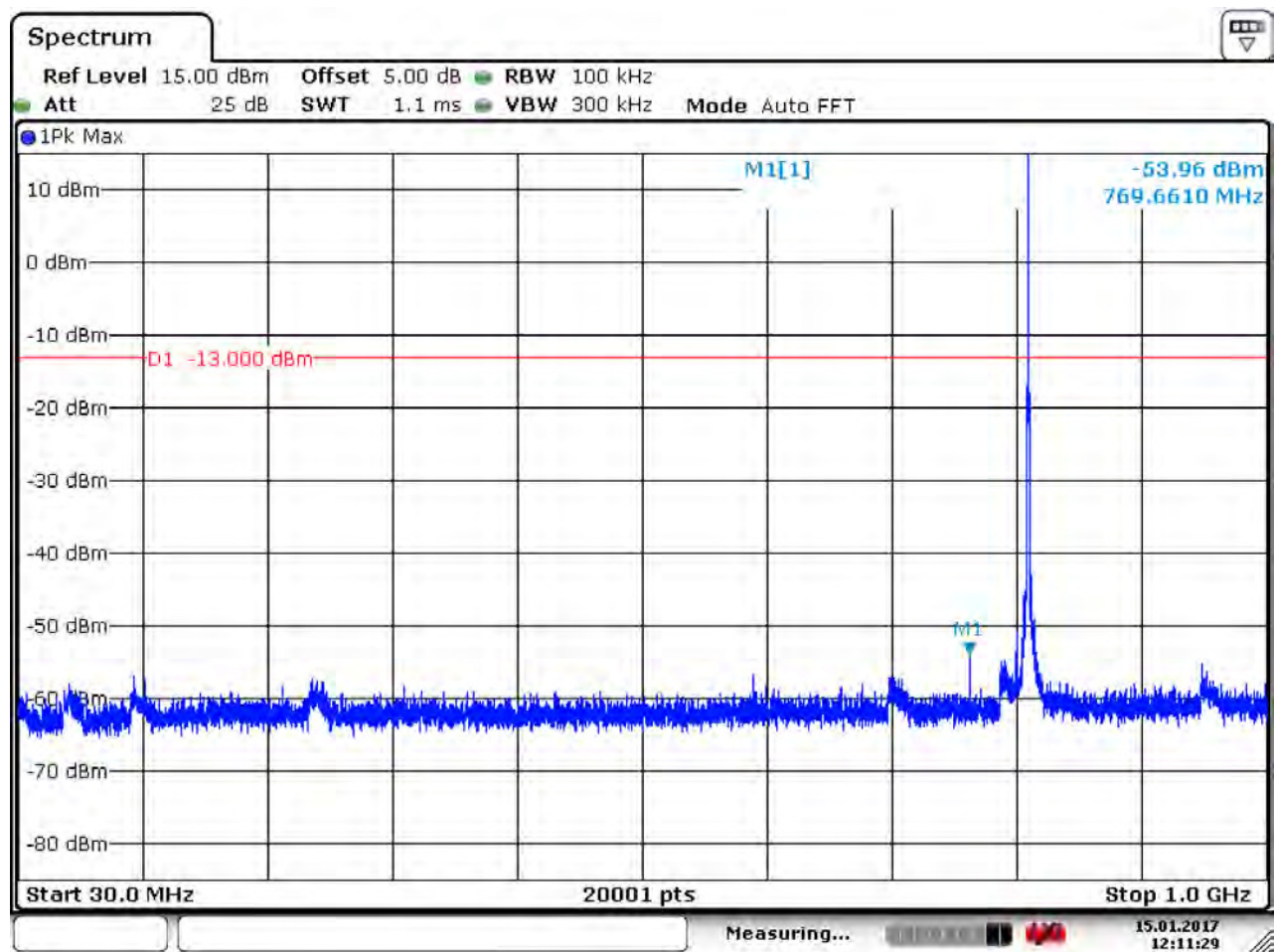
Part I - Test Plots

6.1 For LTE

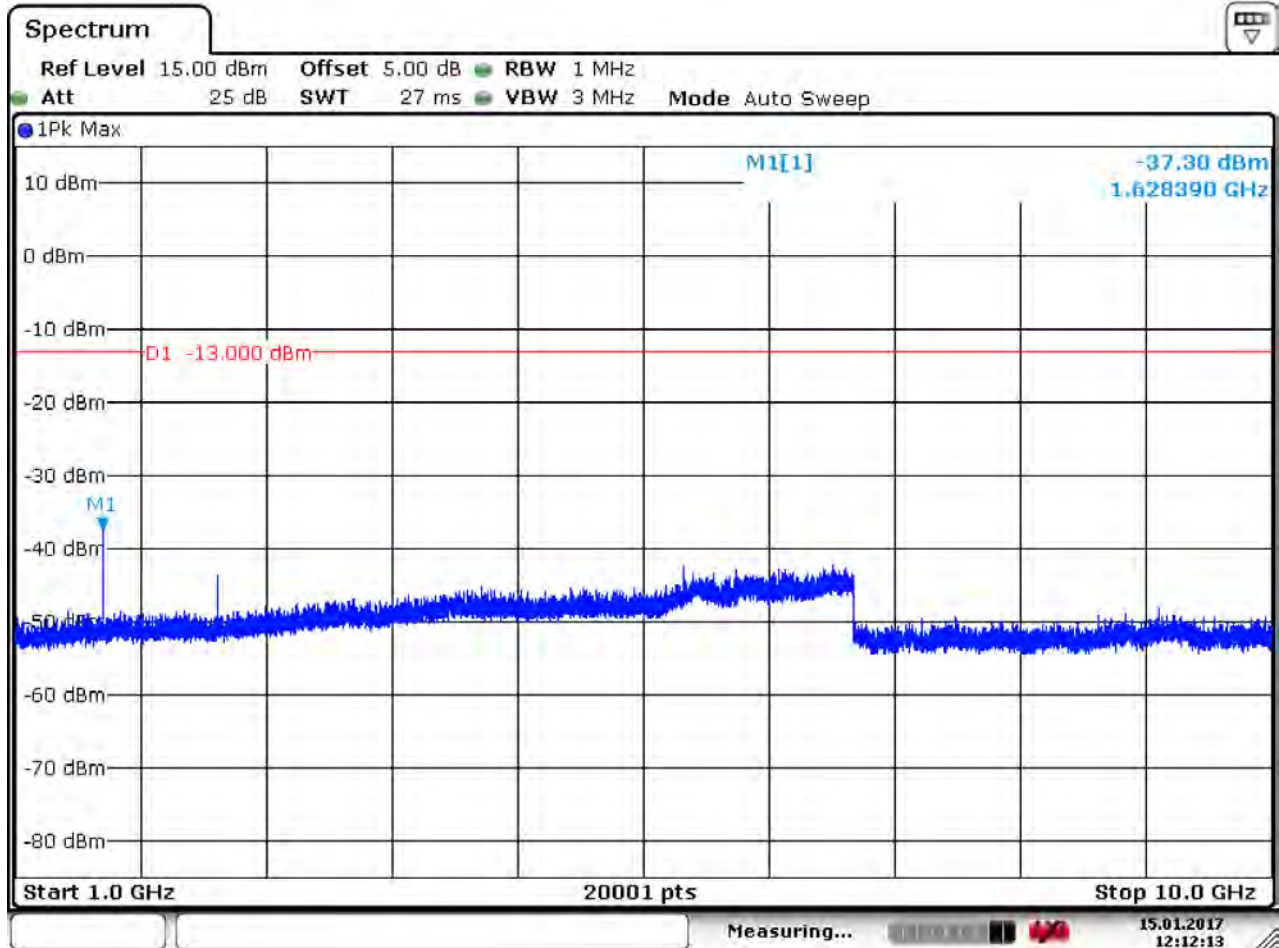
6.1.1 Test Band = LTE band26 (814-824)

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

6.1.1.1.1 Test Channel = LCH



Date: 15.JAN.2017 12:11:30

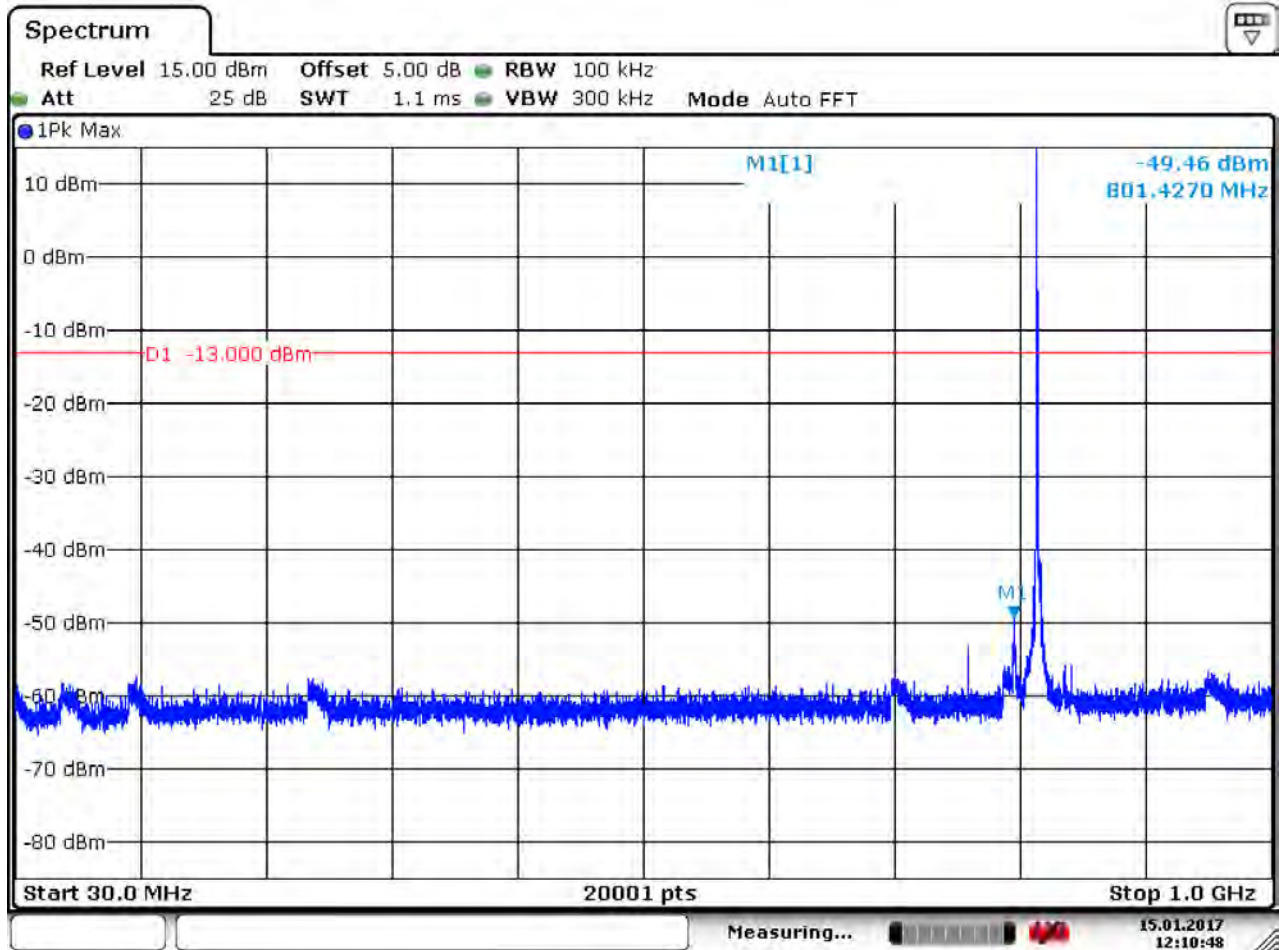


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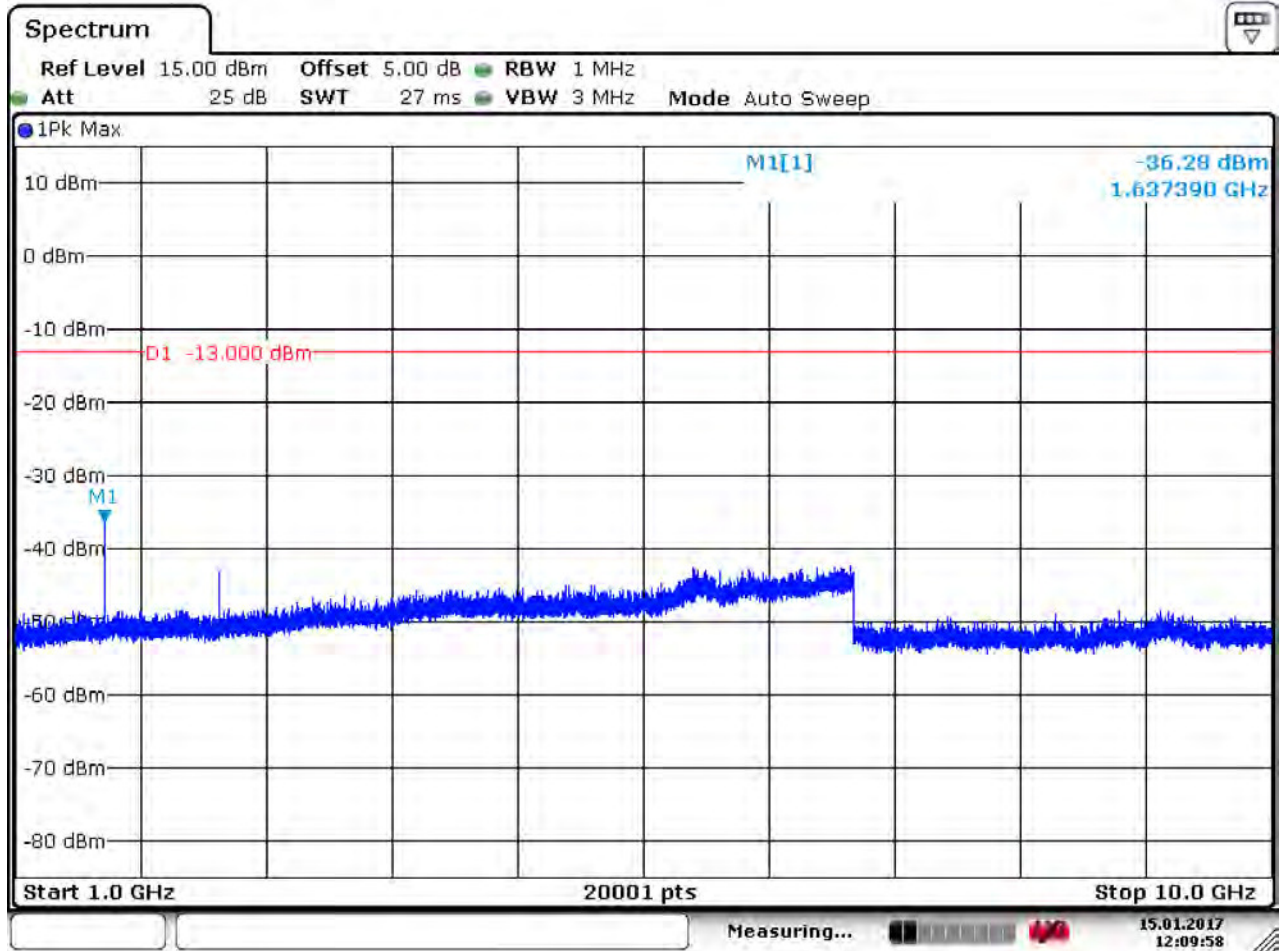


6.1.1.1.2 Test Channel = MCH



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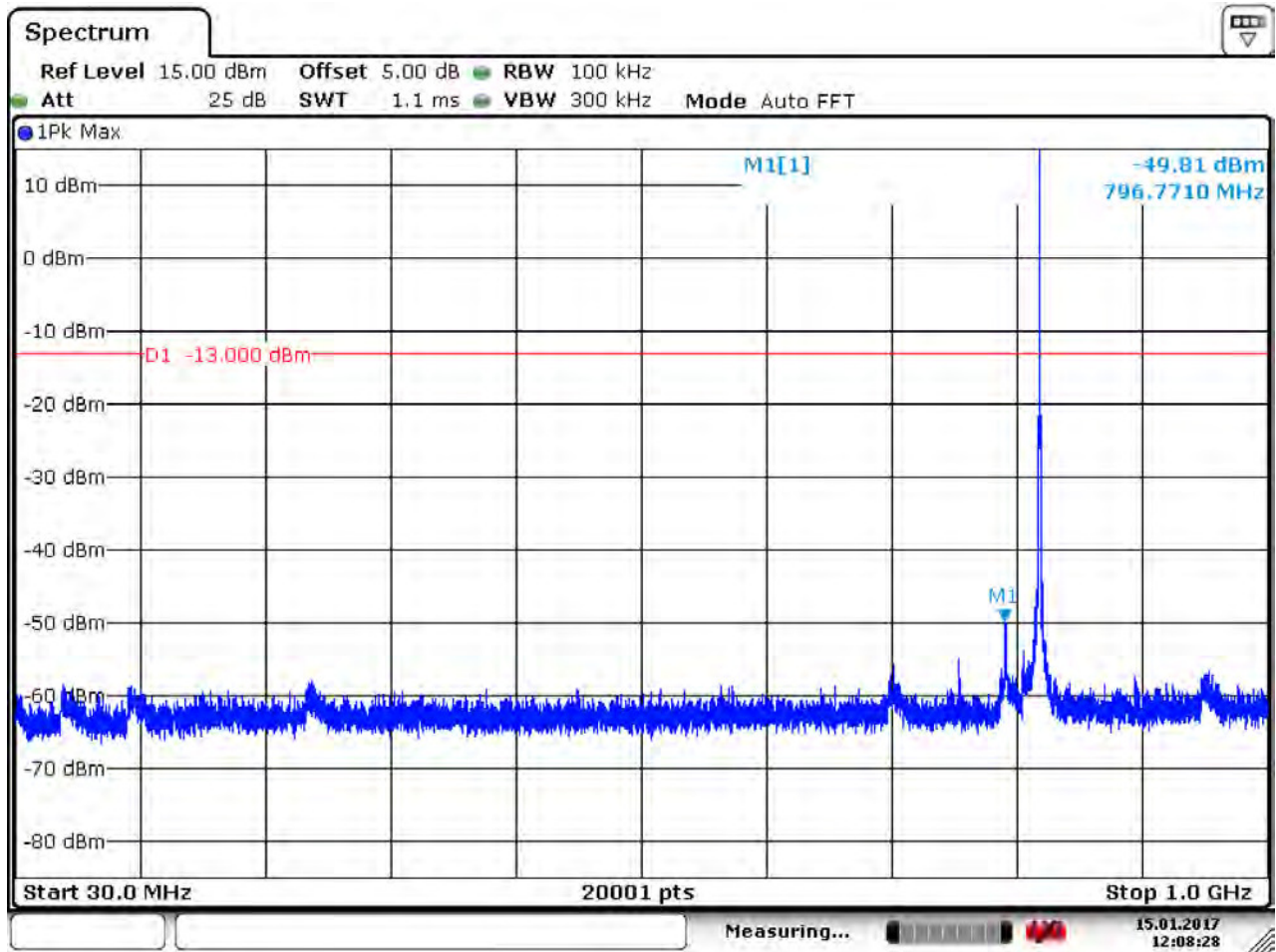


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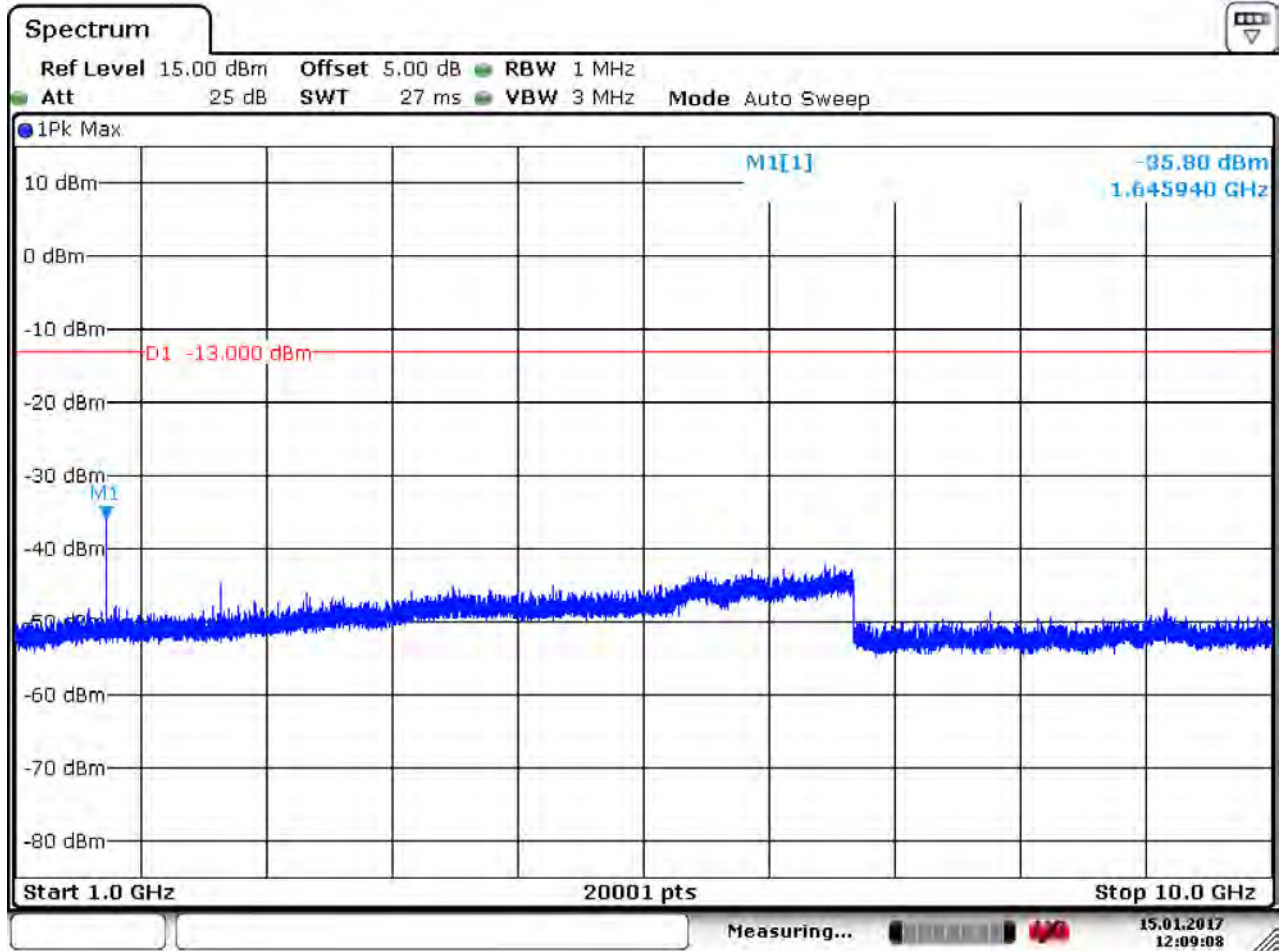


6.1.1.1.3 Test Channel = HCH



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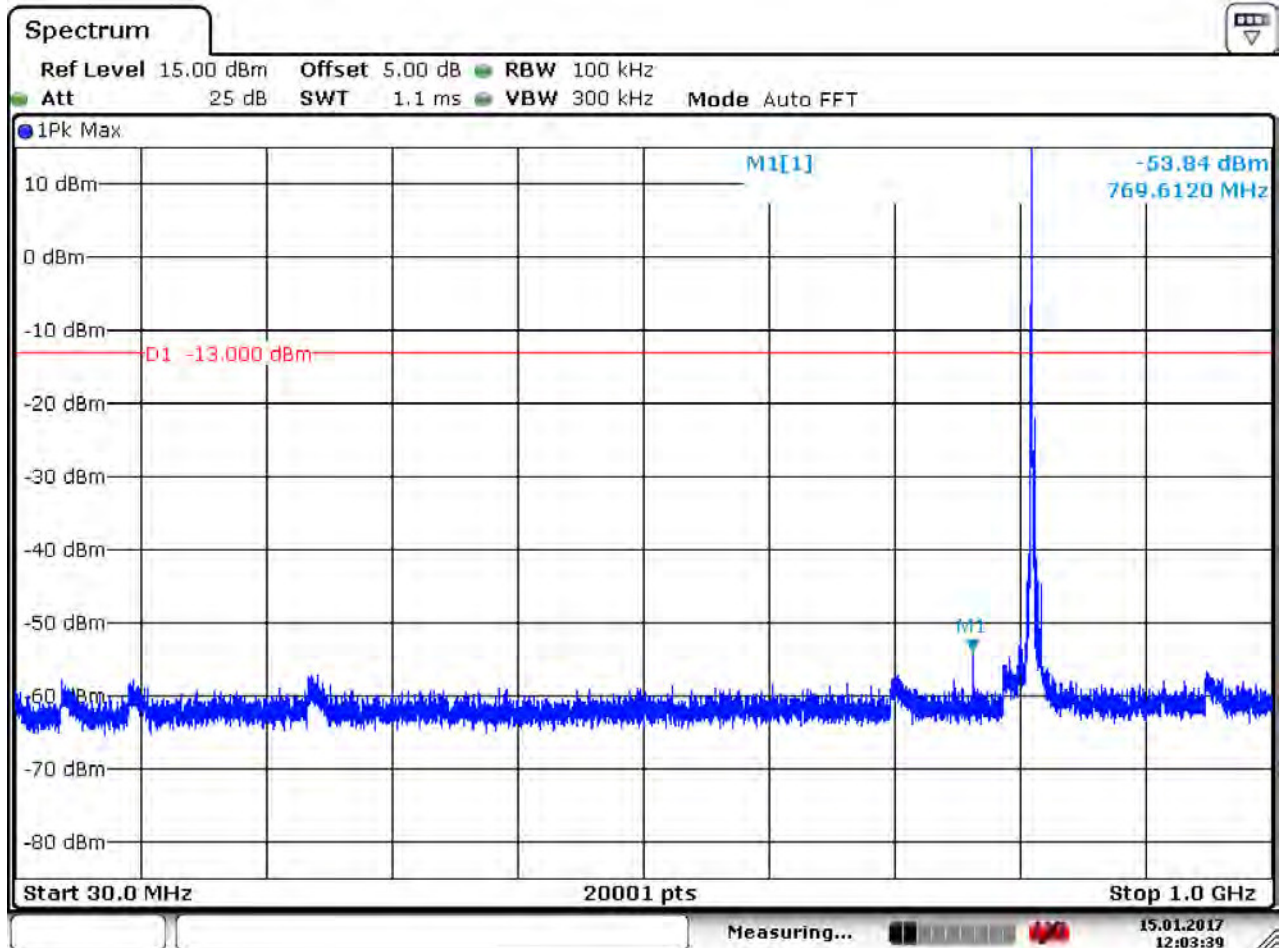
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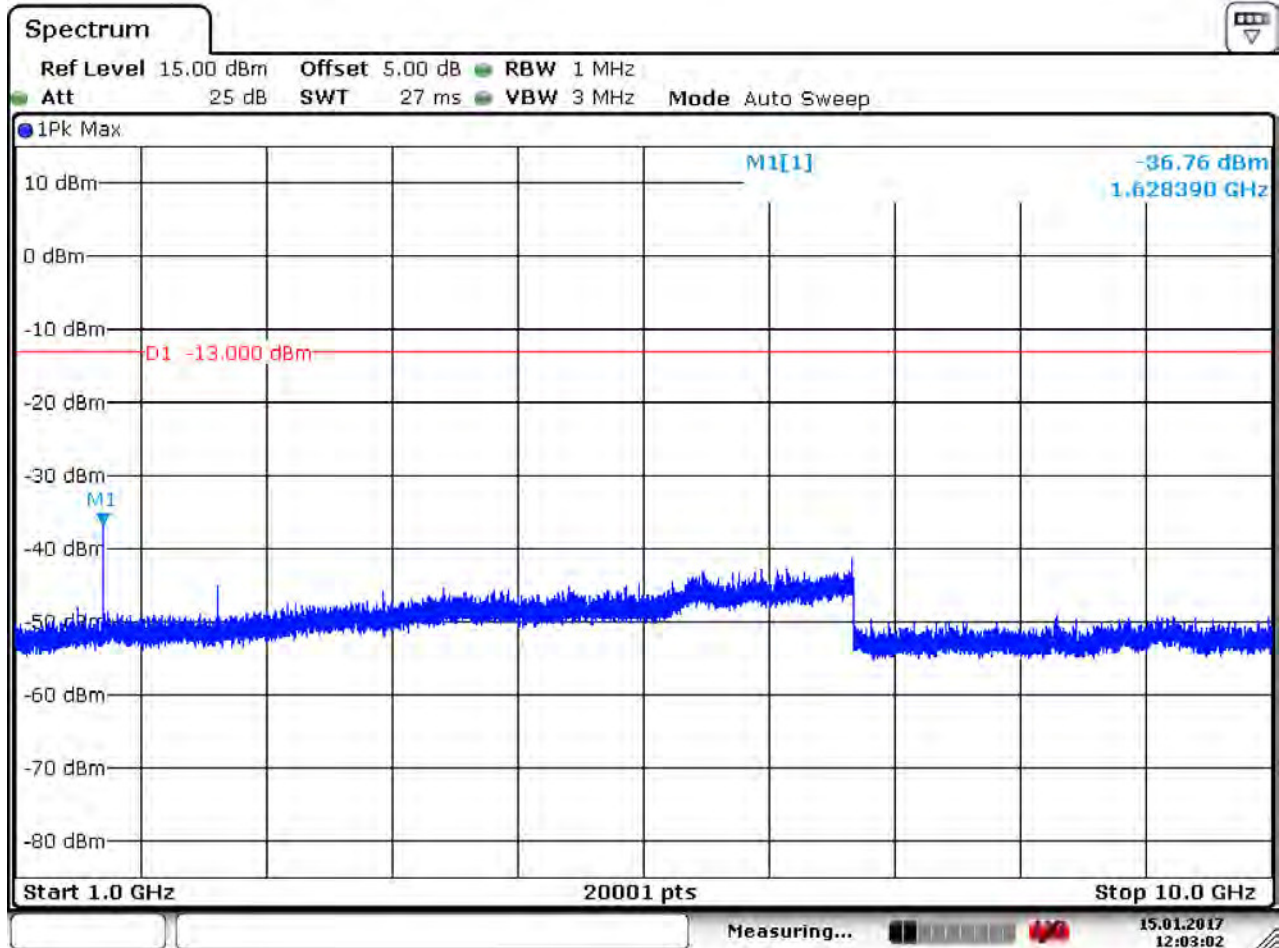
6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH



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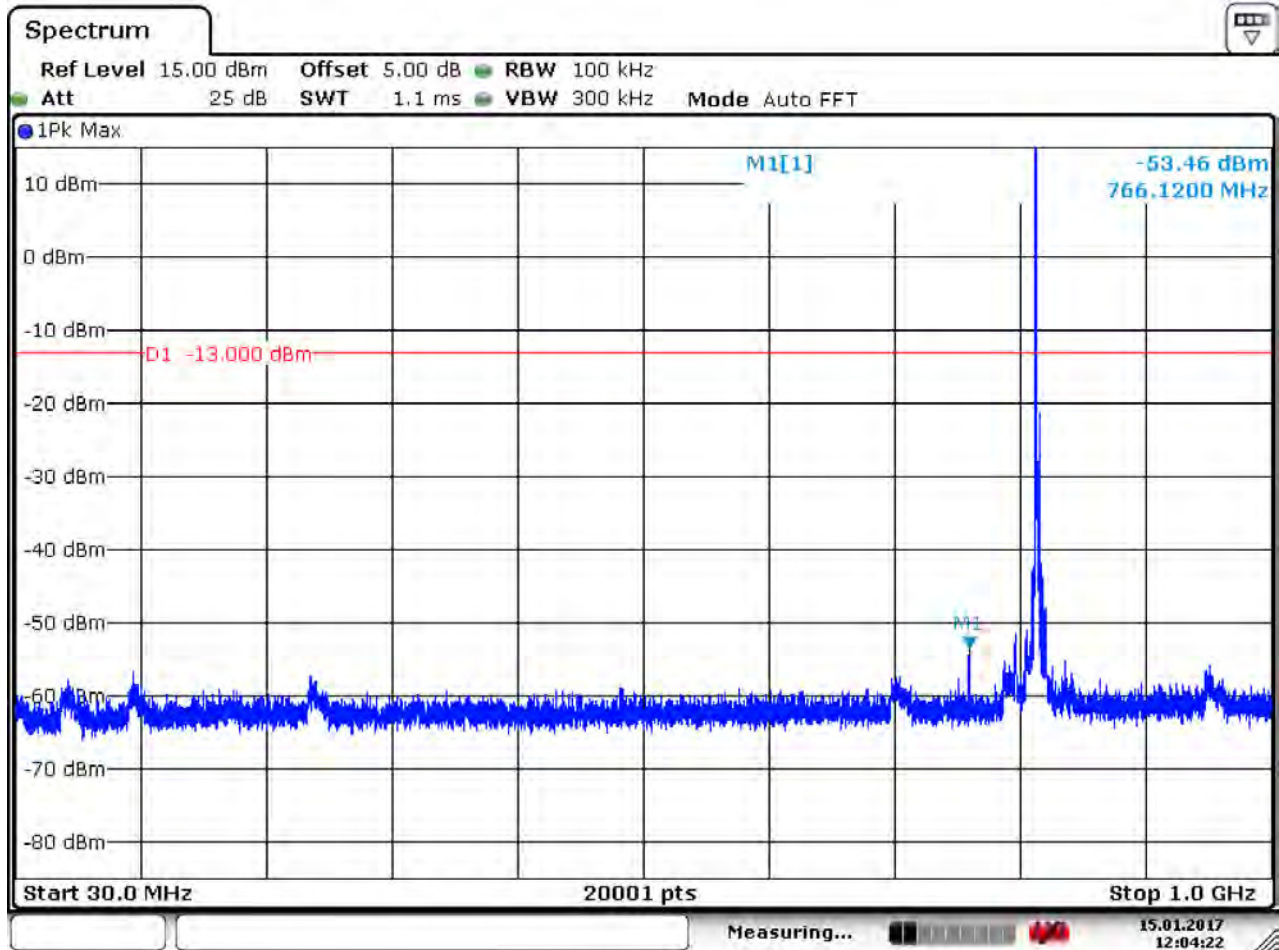


Date: 15.JAN.2017 12:03:03

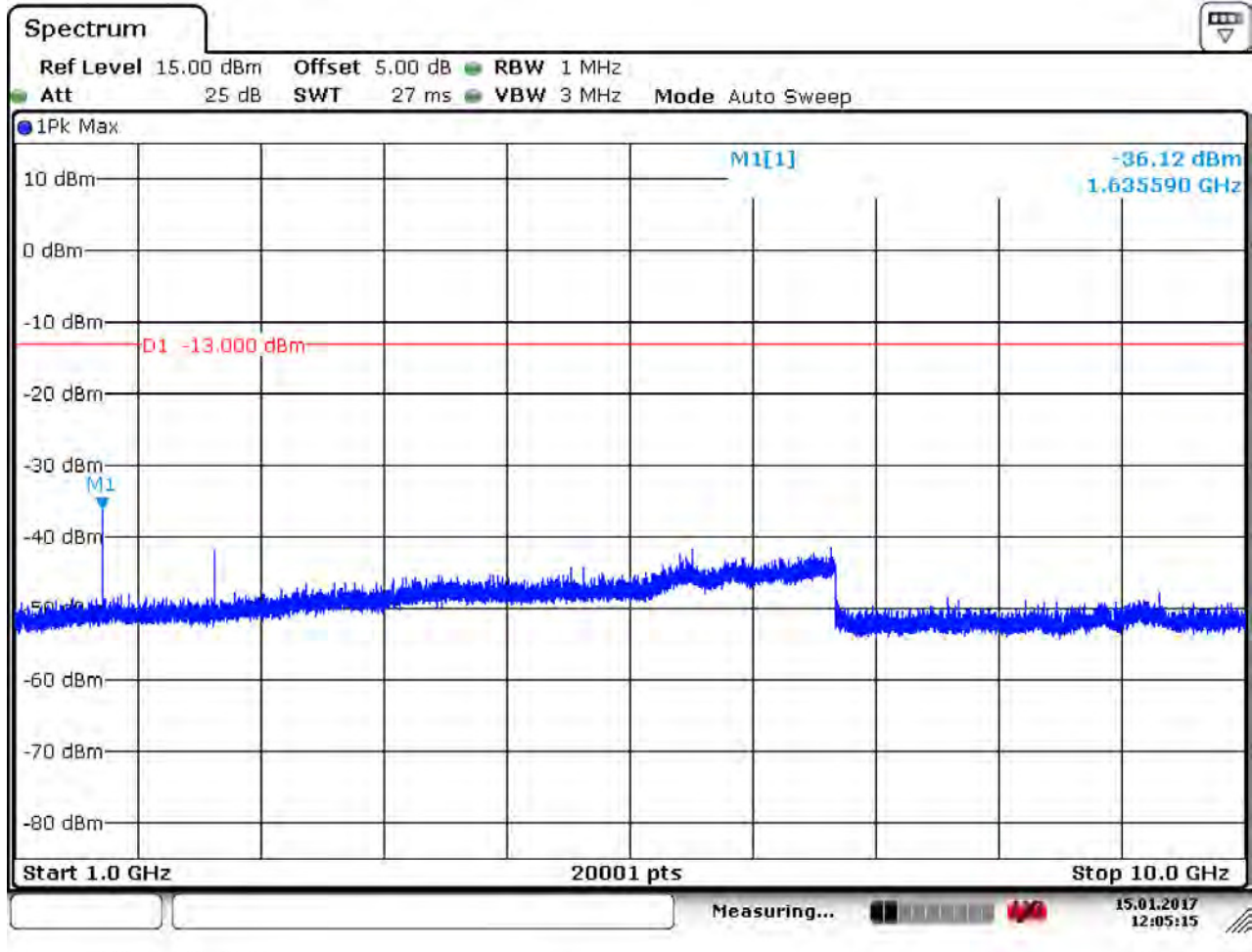
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6.1.1.2.2 Test Channel = MCH



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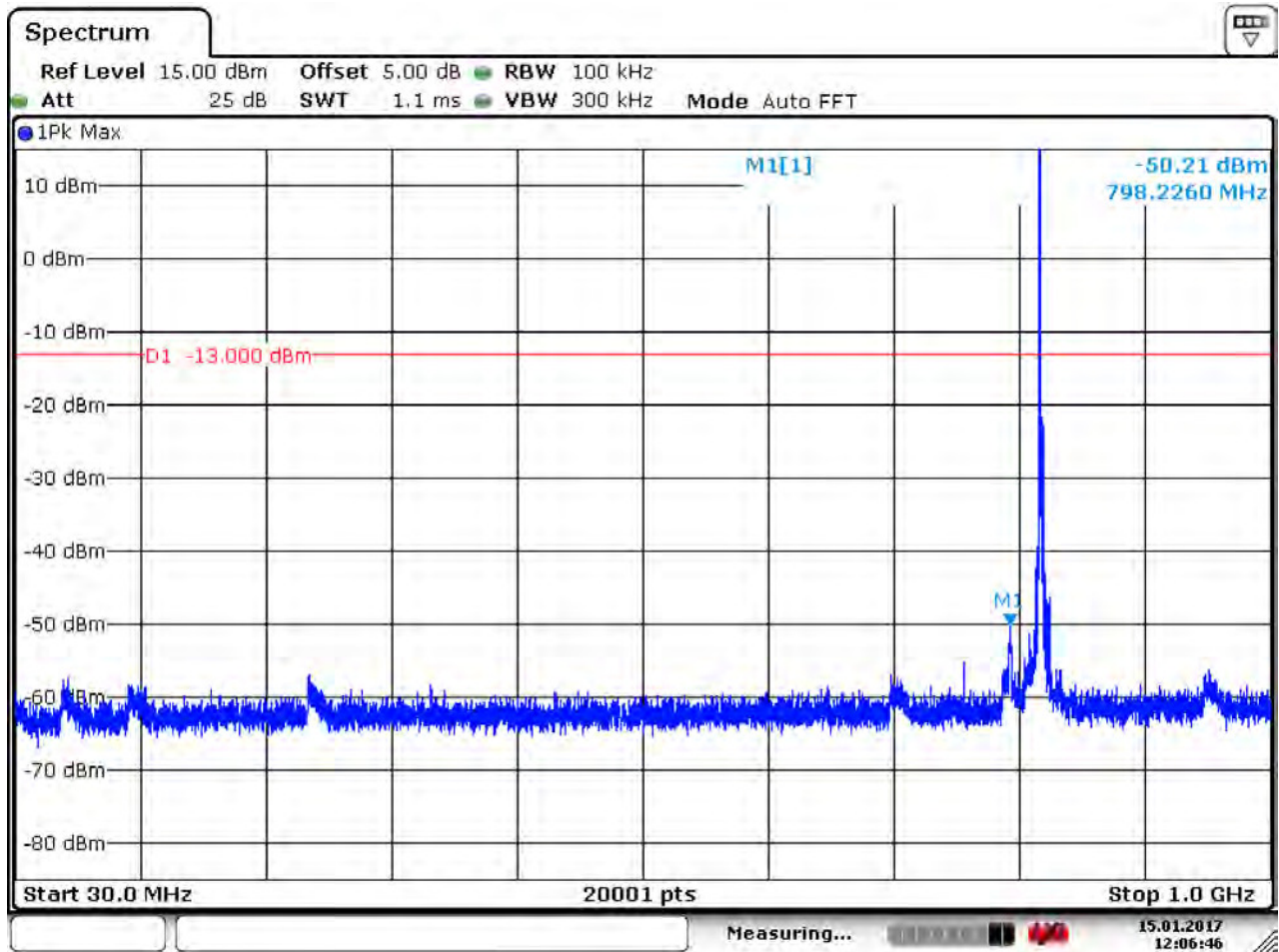


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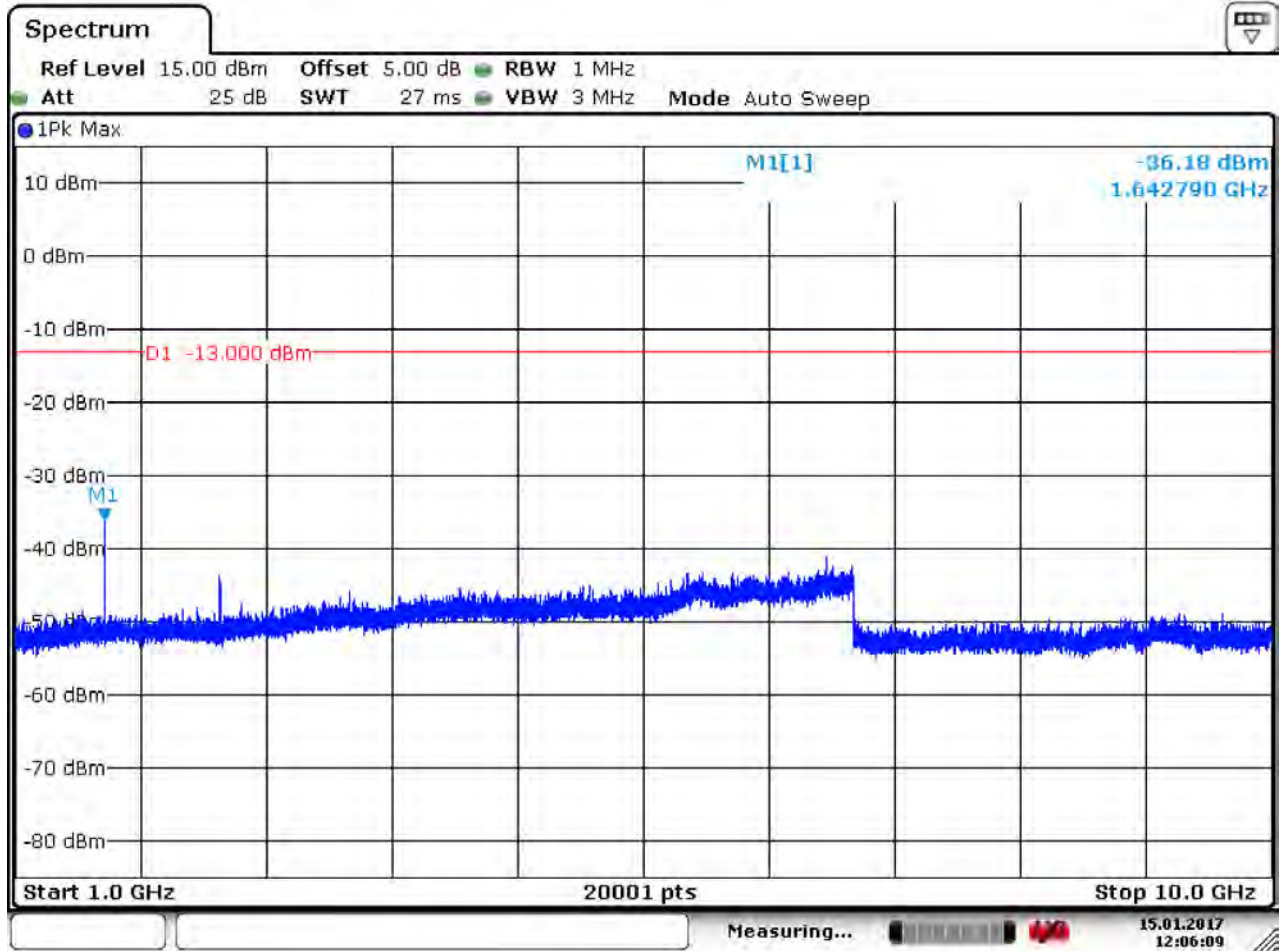


6.1.1.2.3 Test Channel = HCH



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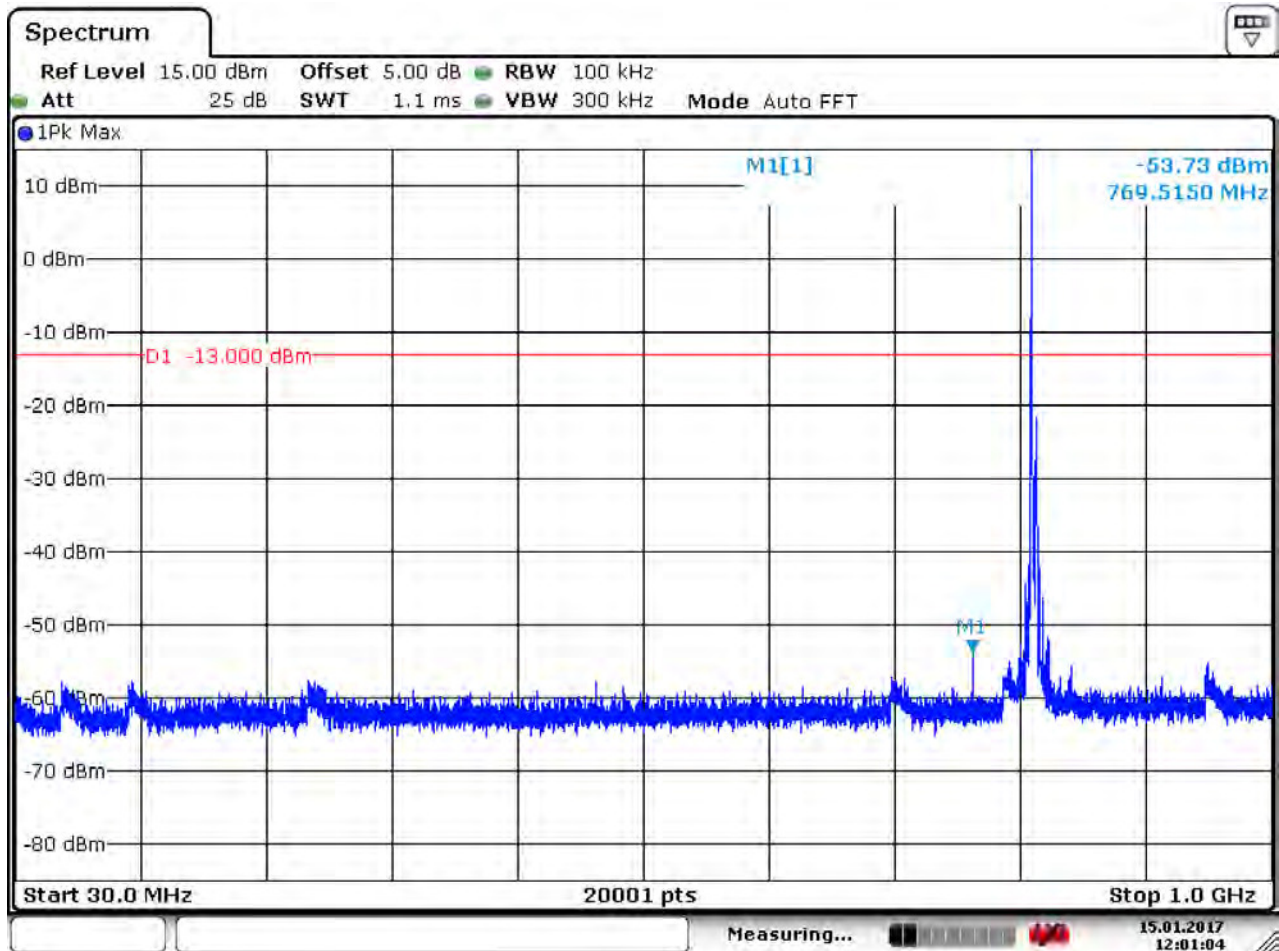
Date: 15.JAN.2017 12:06:10

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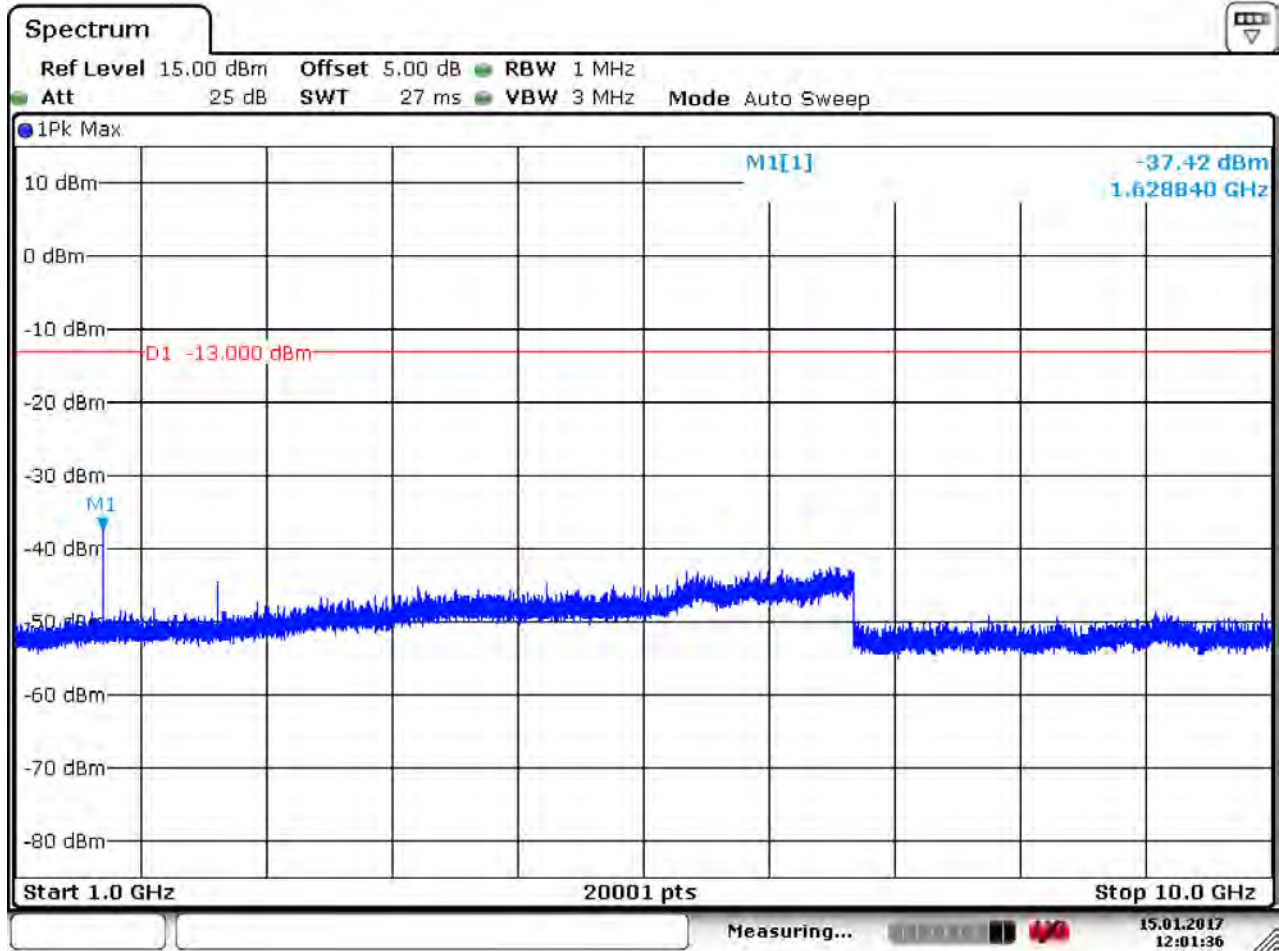
6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH



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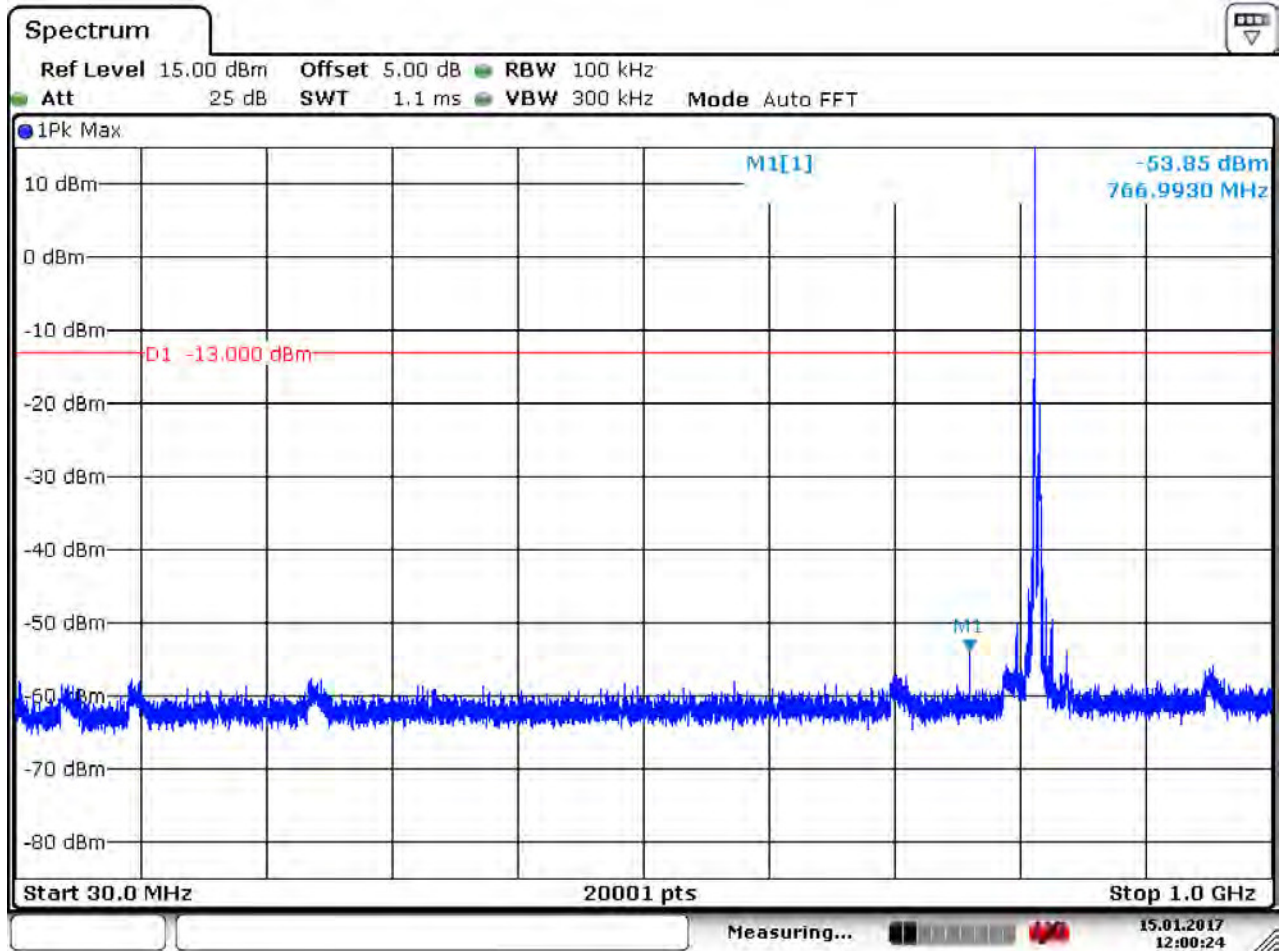


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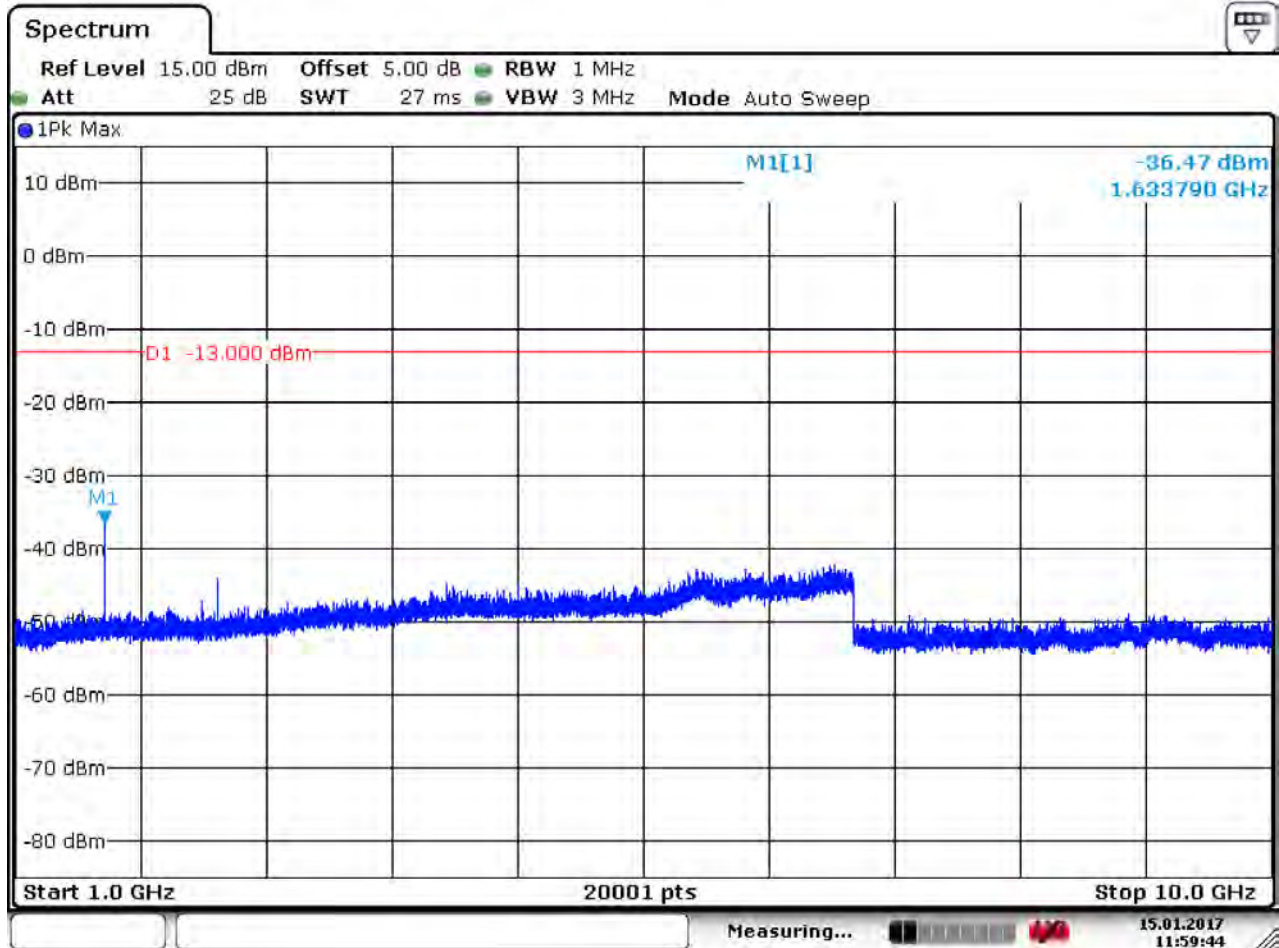


6.1.1.3.2 Test Channel = MCH



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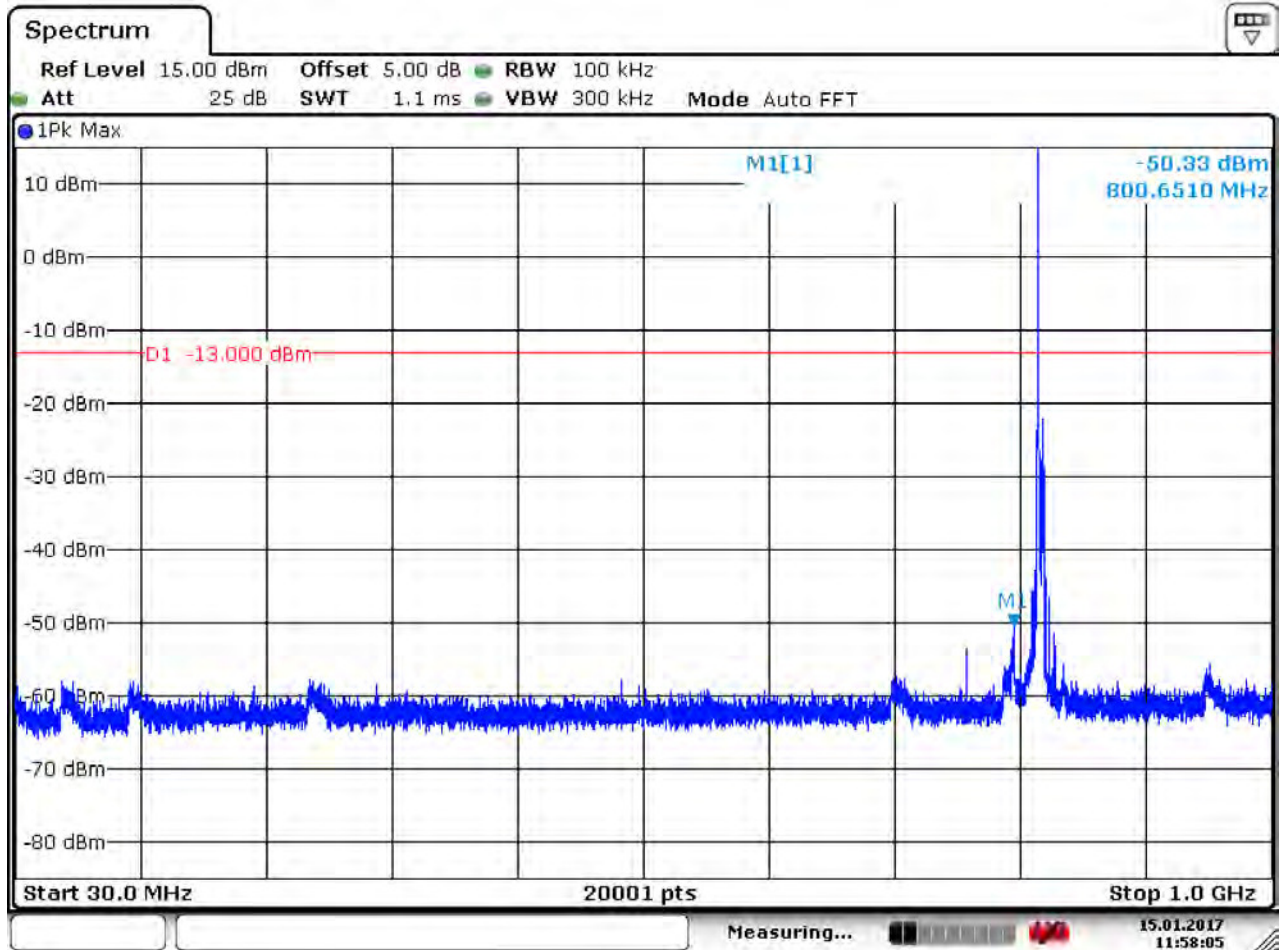


Date: 15.JAN.2017 11:59:45

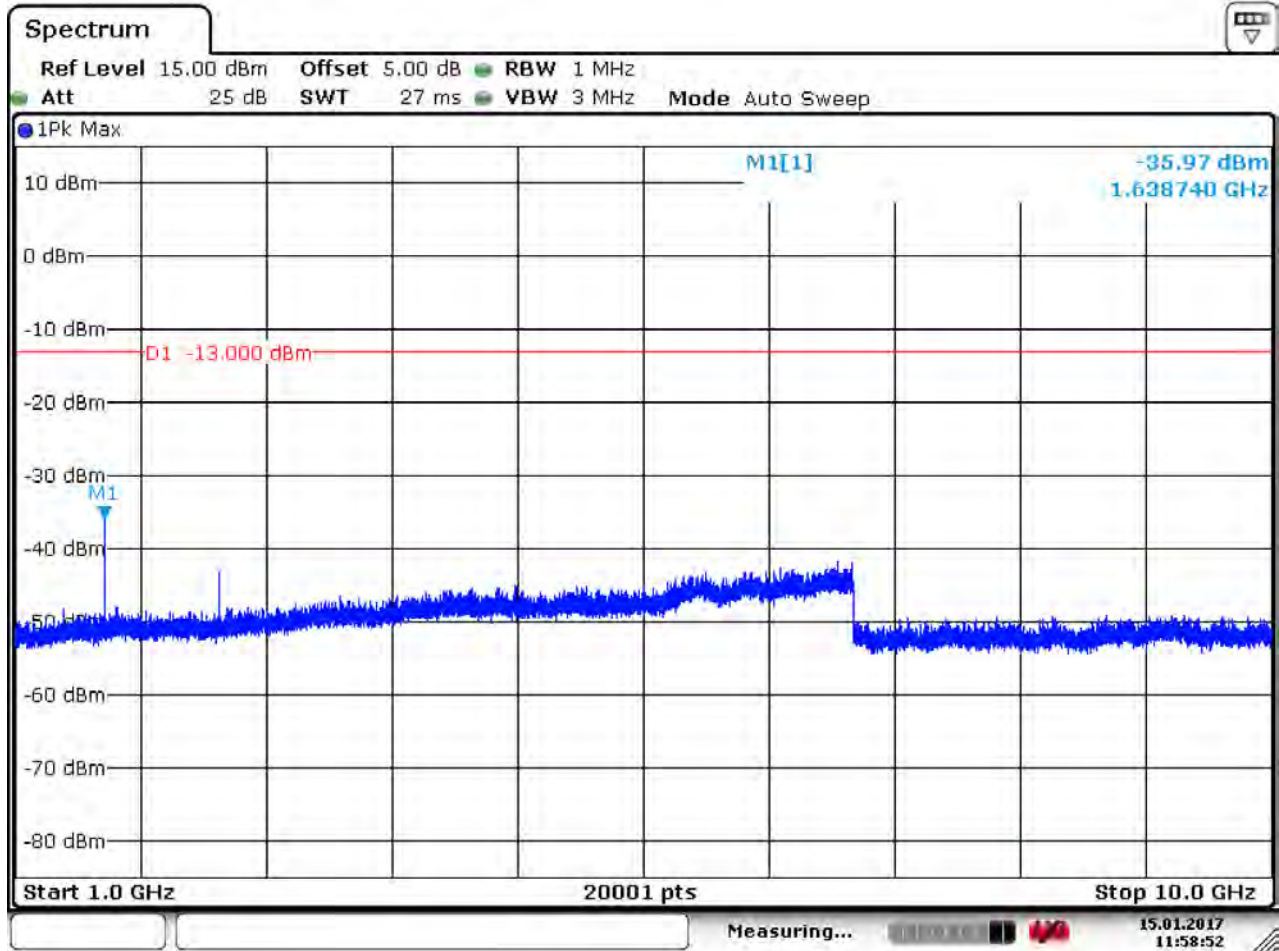
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6.1.1.3.3 Test Channel = HCH



Date: 15.JAN.2017 11:58:05



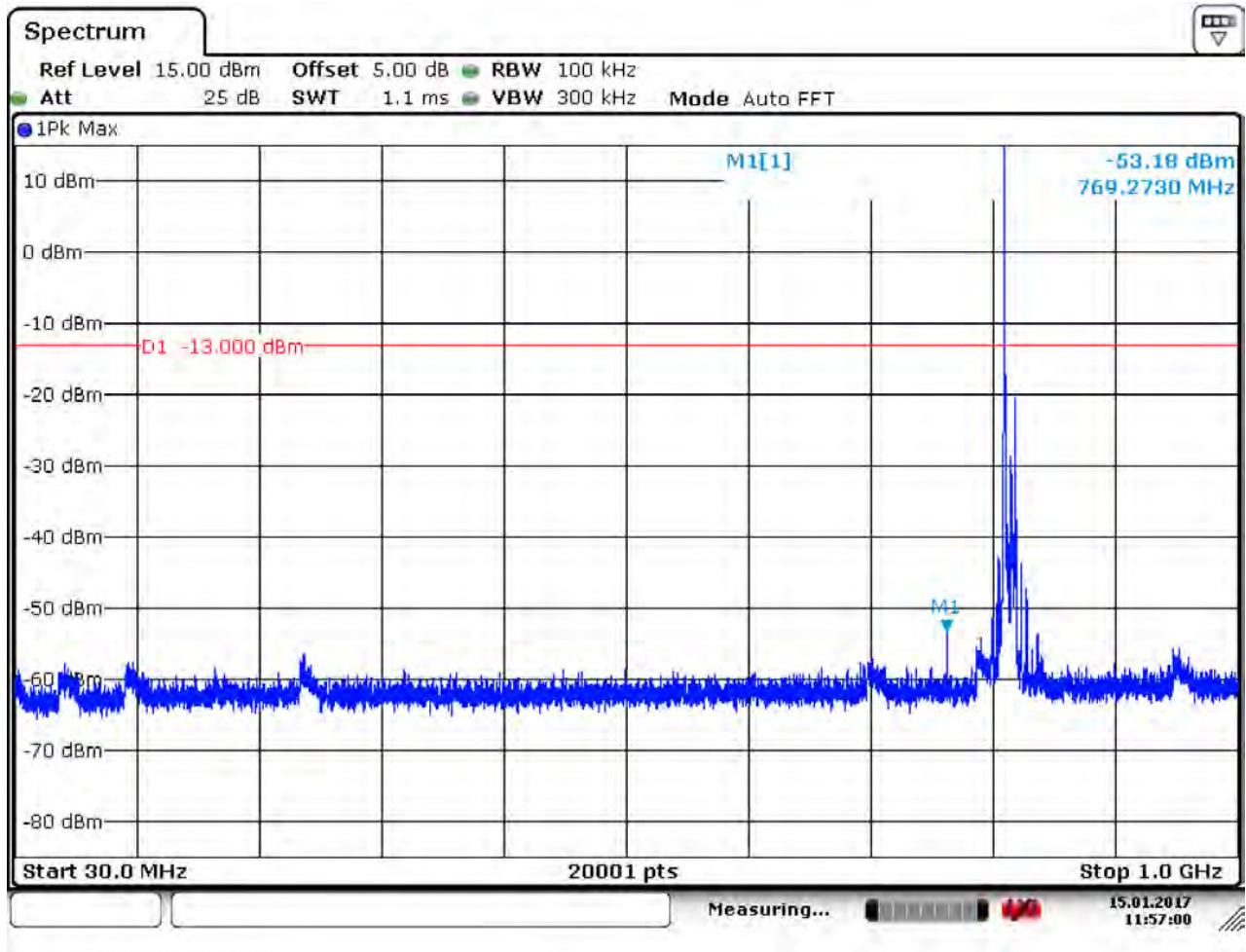
Date: 15.JAN.2017 11:58:53

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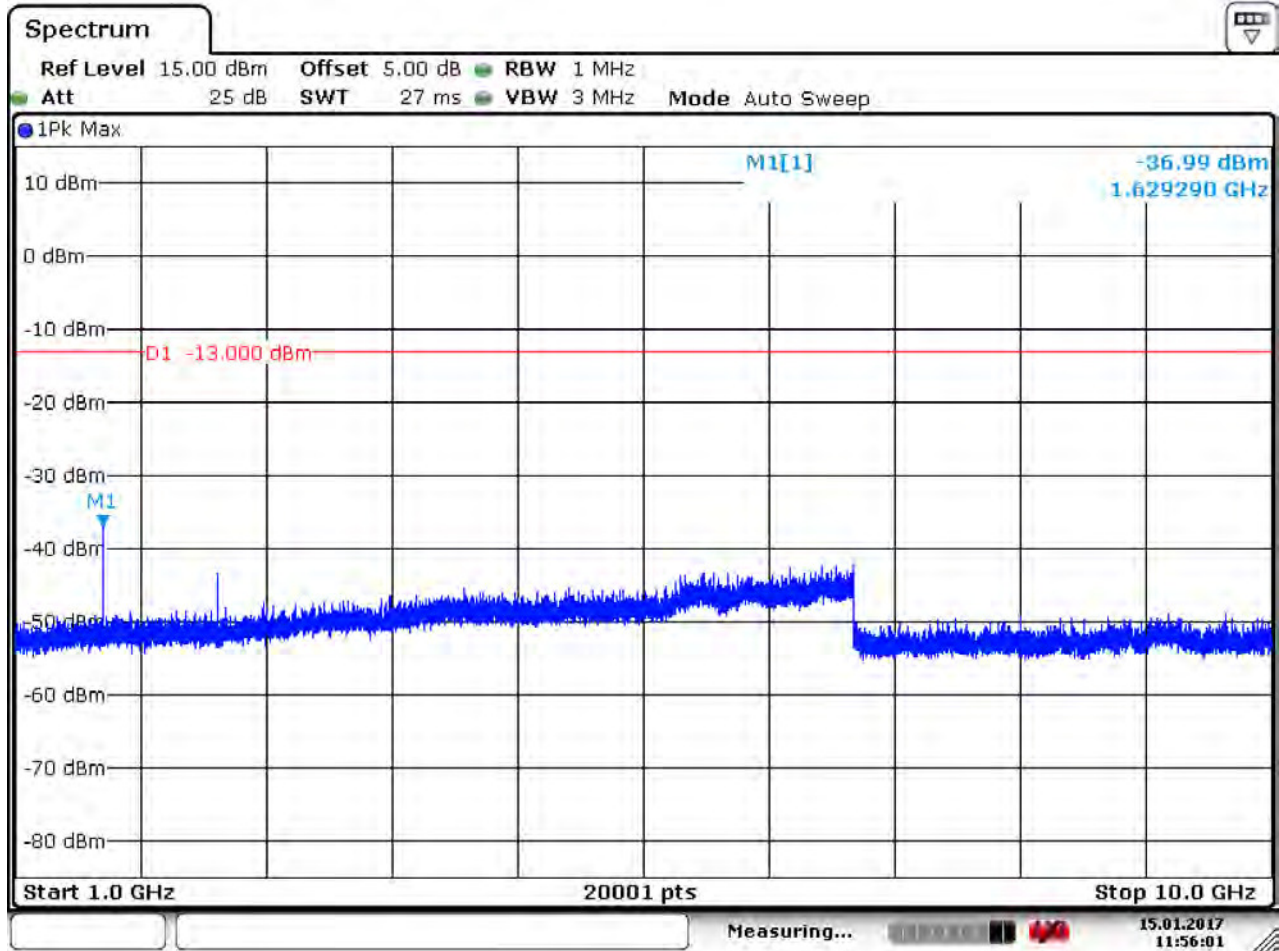
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = MCH



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE 26(814-824)

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1903.000	-59.18	-13.00	-46.18	Vertical
2320.000	-59.61	-13.00	-46.61	Vertical
4657.500	-68.03	-13.00	-55.03	Vertical
1837.000	-63.13	-13.00	-50.13	Horizontal
2488.000	-59.08	-13.00	-46.08	Horizontal
3390.000	-70.45	-13.00	-57.45	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1434.000	-66.54	-13.00	-53.54	Vertical
2652.000	-57.22	-13.00	-44.22	Vertical
4930.000	-67.17	-13.00	-54.17	Vertical
1958.500	-63.26	-13.00	-50.26	Horizontal
3975.000	-68.77	-13.00	-55.77	Horizontal
6540.000	-66.64	-13.00	-53.64	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
895.000	-65.24	-13.00	-52.24	Vertical
1752.000	-58.72	-13.00	-45.72	Vertical
5145.000	-67.43	-13.00	-54.43	Vertical
2616.000	-58.55	-13.00	-45.55	Horizontal
4267.500	-66.63	-13.00	-53.63	Horizontal
7310.000	-66.57	-13.00	-53.57	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. 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 26 (814-824)	LTE/TM1 10MHz	MCH	TN	VL	-1.12	-0.00137	PASS
				VN	6.38	0.00779	PASS
				VH	-4.03	-0.00493	PASS
	LTE/TM2 10MHz	MCH	TN	VL	2.78	0.00340	PASS
				VN	5.11	0.00624	PASS
				VH	-0.73	-0.00089	PASS
	LTE/TM3 10MHz	MCH	TN	VL	0.73	0.00090	PASS
				VN	-2.44	-0.00298	PASS
				VH	3.49	0.00426	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 band26 (814-824)	LTE/TM1 10MHz	MCH	VN	-30	-0.71	-0.00087	PASS
				-20	-5.18	-0.00633	PASS
				-10	-6.46	-0.00789	PASS
				0	-6.34	-0.00774	PASS
				10	-0.41	-0.00051	PASS
				20	5.93	0.00724	PASS
				30	0.85	0.00104	PASS
				40	-5.52	-0.00674	PASS
				50	-1.22	-0.00149	PASS
	LTE/TM2 10MHz	MCH	VN	-30	-6.12	-0.00747	PASS
				-20	3.38	0.00413	PASS
				-10	2.38	0.00291	PASS
				0	4.02	0.00491	PASS
				10	0.56	0.00068	PASS
				20	-1.86	-0.00227	PASS
				30	1.80	0.00219	PASS
				40	5.66	0.00691	PASS
				50	0.03	0.00004	PASS
	LTE/TM3 10MHz	MCH	VN	-30	-1.50	-0.00183	PASS
				-20	-3.18	-0.00389	PASS
				-10	-3.76	-0.00459	PASS
				0	-4.88	-0.00596	PASS
				10	-0.48	-0.00058	PASS
				20	5.05	0.00616	PASS
				30	2.93	0.00358	PASS
				40	6.67	0.00814	PASS
				50	5.32	0.00649	PASS

The End

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