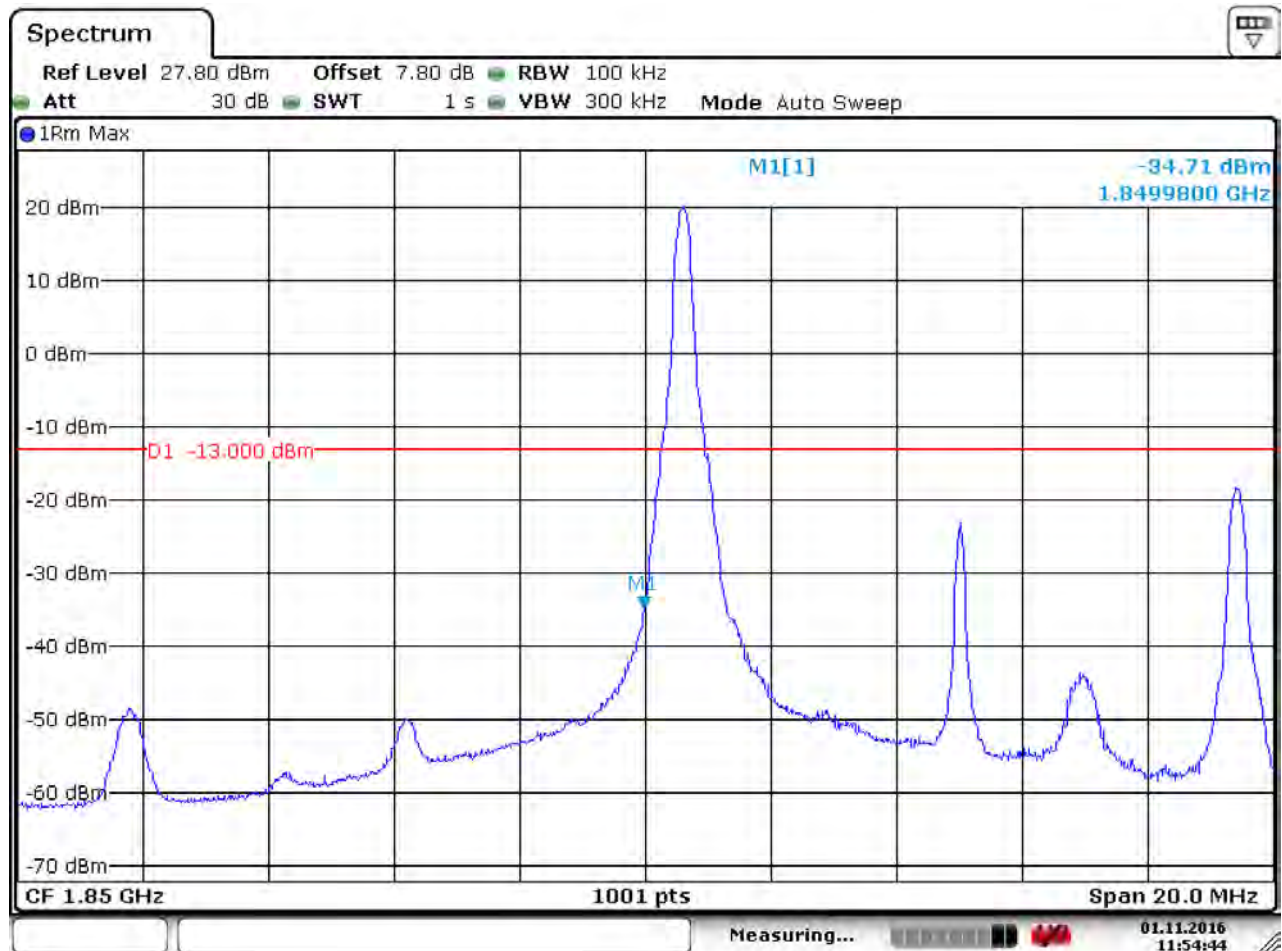




5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

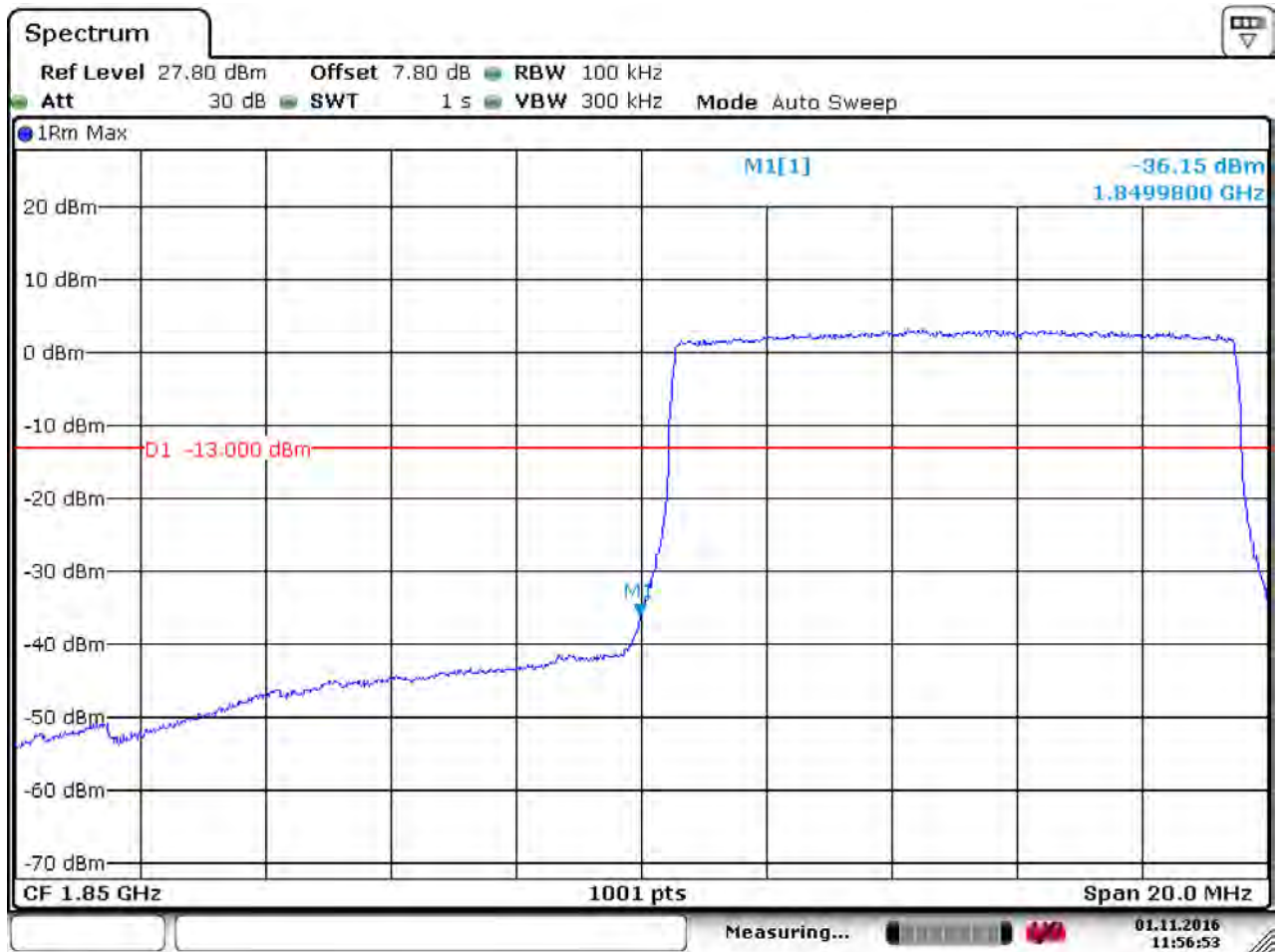
5.1.1.10.1.1 Test RB=1RB



Date: 1.NOV.2016 11:54:45



5.1.1.10.1.2 Test RB=50RB

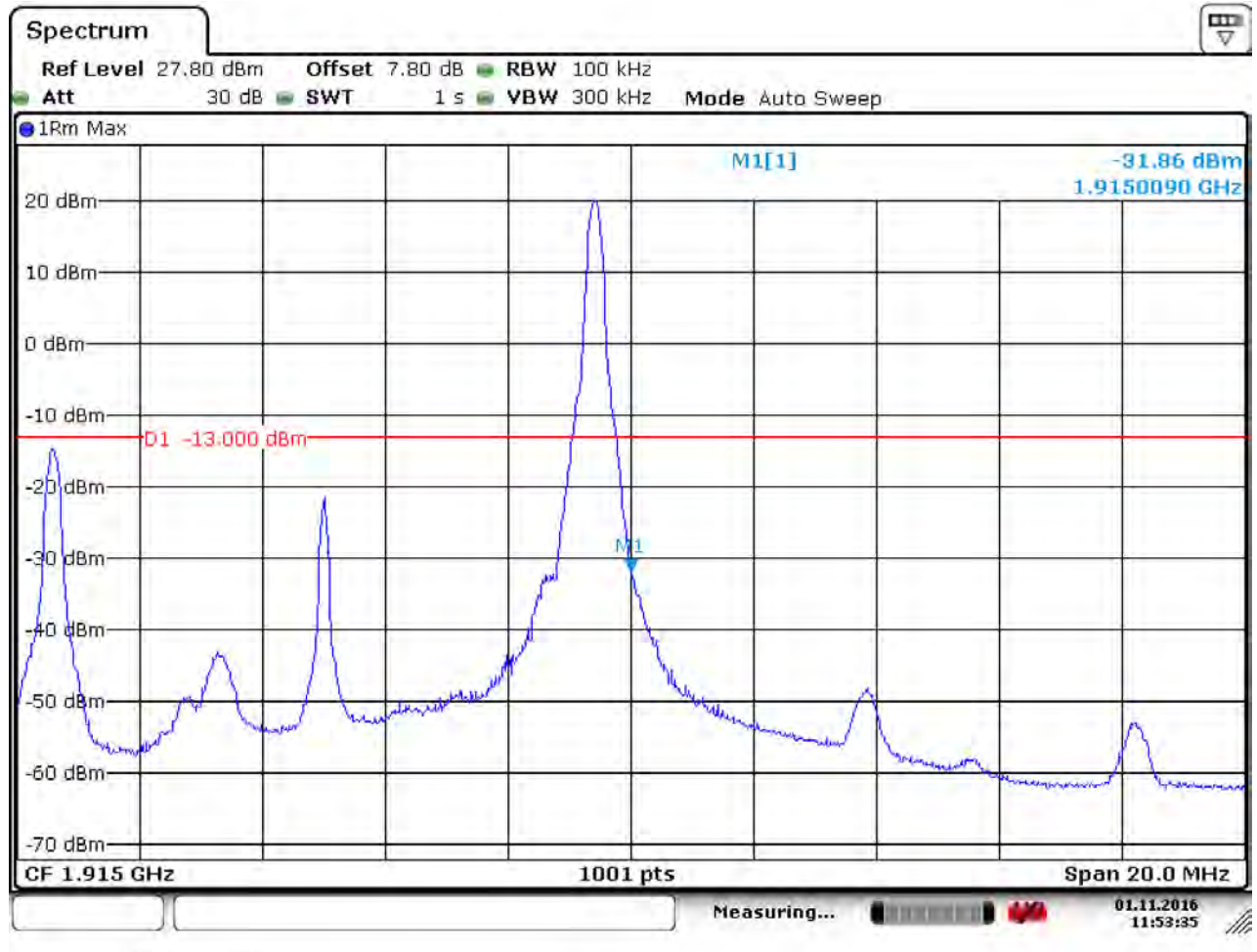


Date: 1.NOV.2016 11:56:54



5.1.1.10.2 Test Channel = HCH

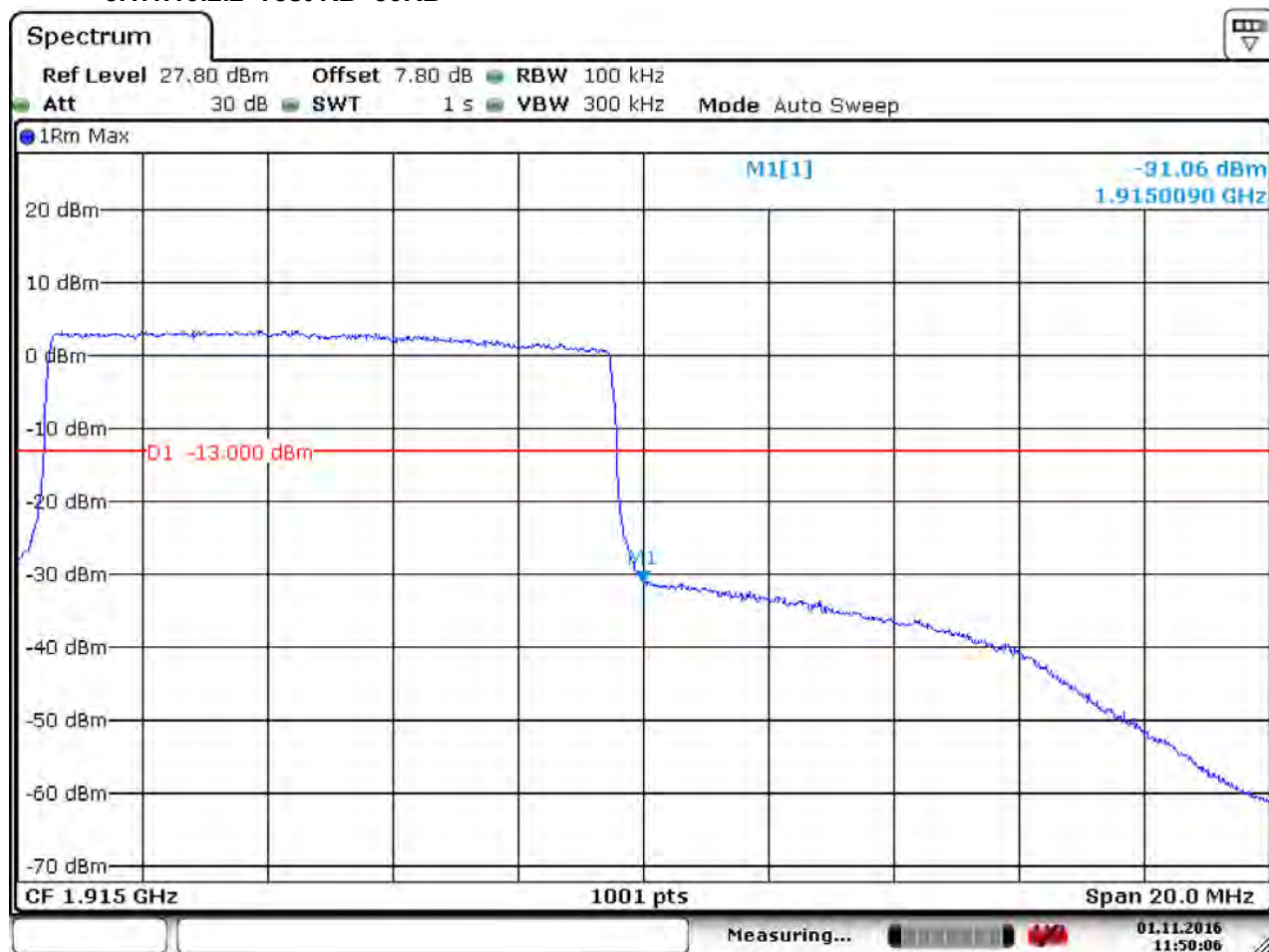
5.1.1.10.2.1 Test RB=1RB



Date: 1.NOV.2016 11:53:35



5.1.1.10.2.2 Test RB=50RB



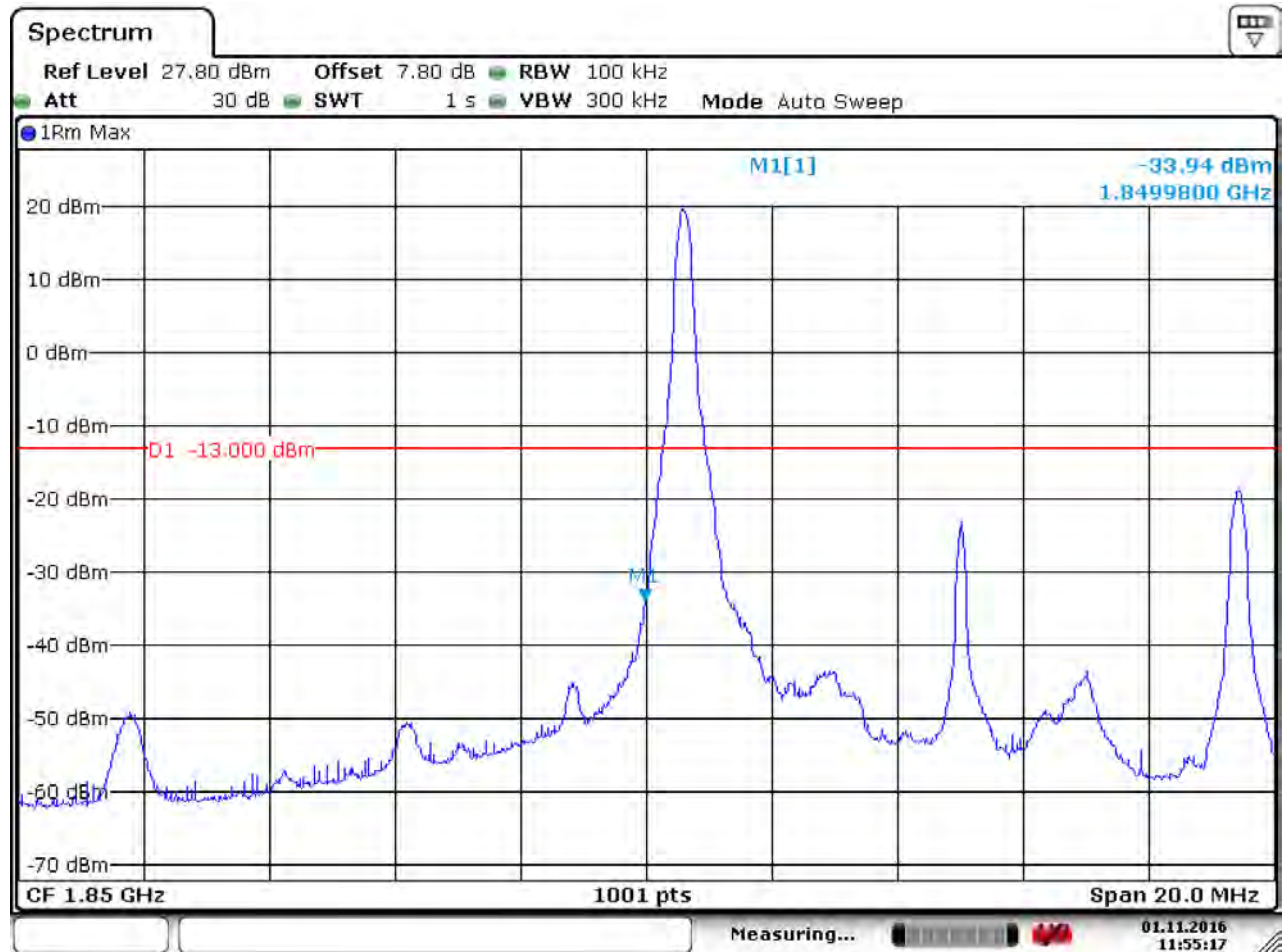
Date: 1.NOV.2016 11:50:06



5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

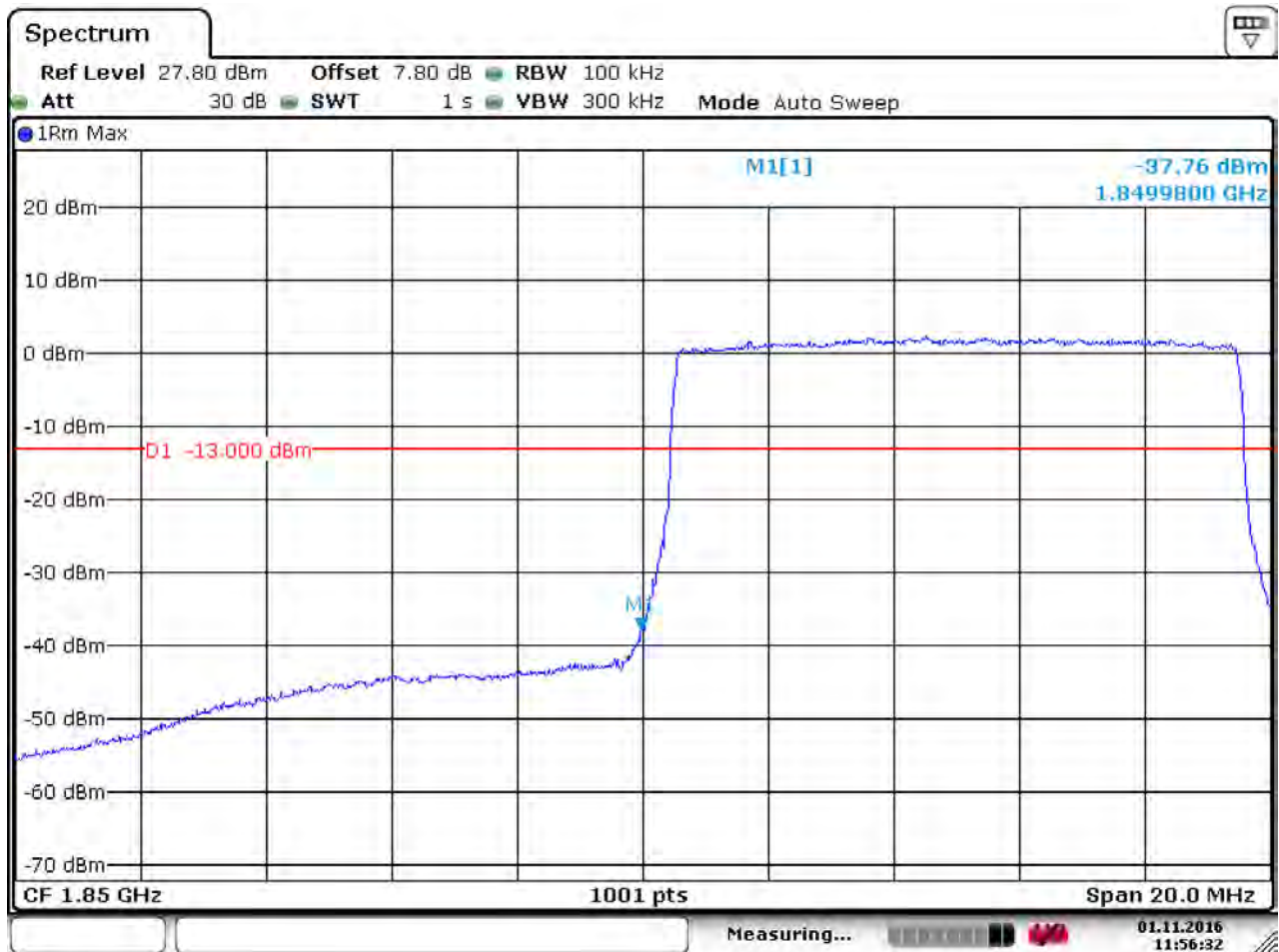
5.1.1.11.1.1 Test RB=1RB



Date: 1.NOV.2016 11:55:17



5.1.1.11.1.2 Test RB=50RB

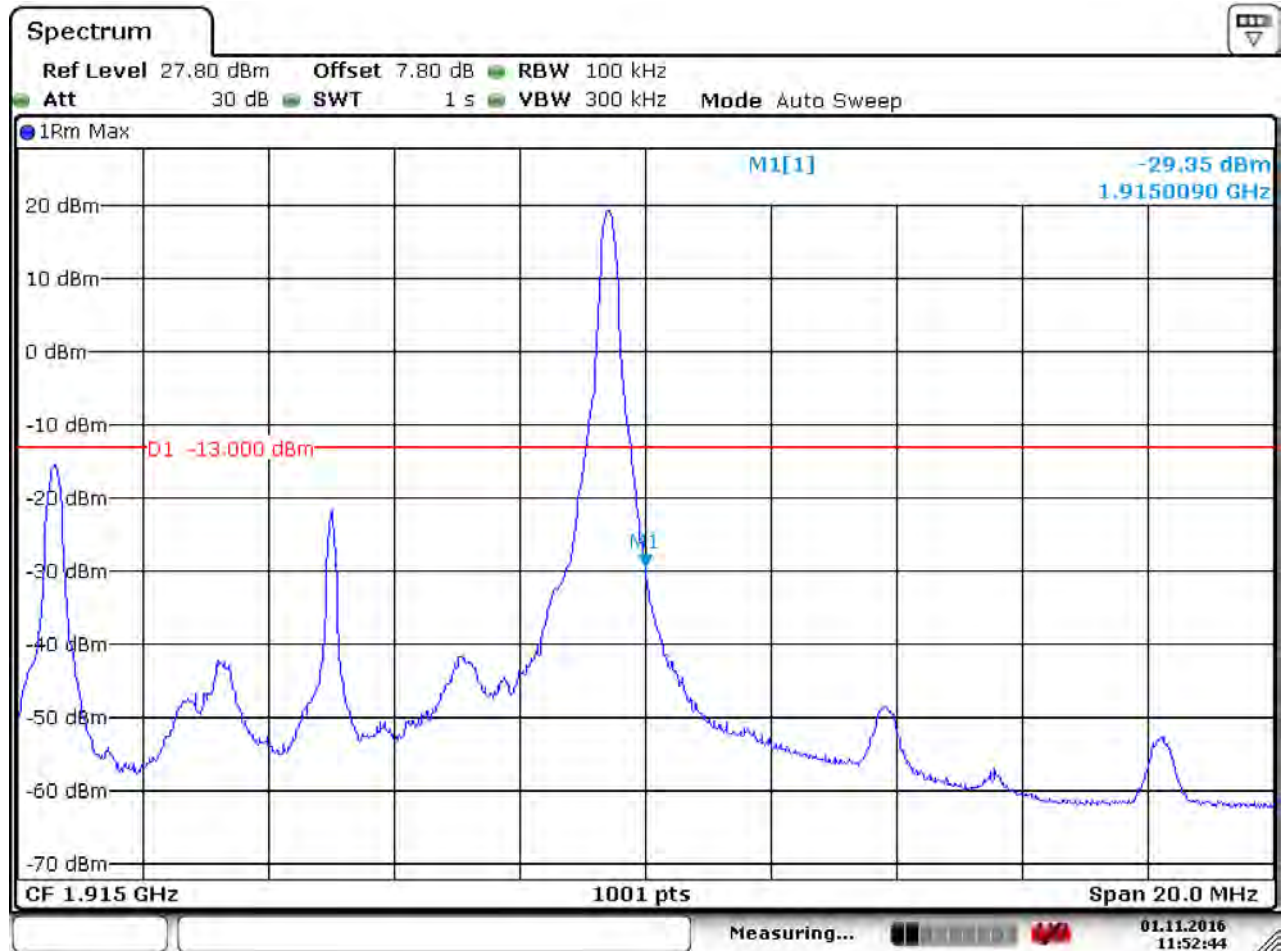


Date: 1.NOV.2016 11:56:32



5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 1.NOV.2016 11:52:44



5.1.1.11.2.2 Test RB=50RB



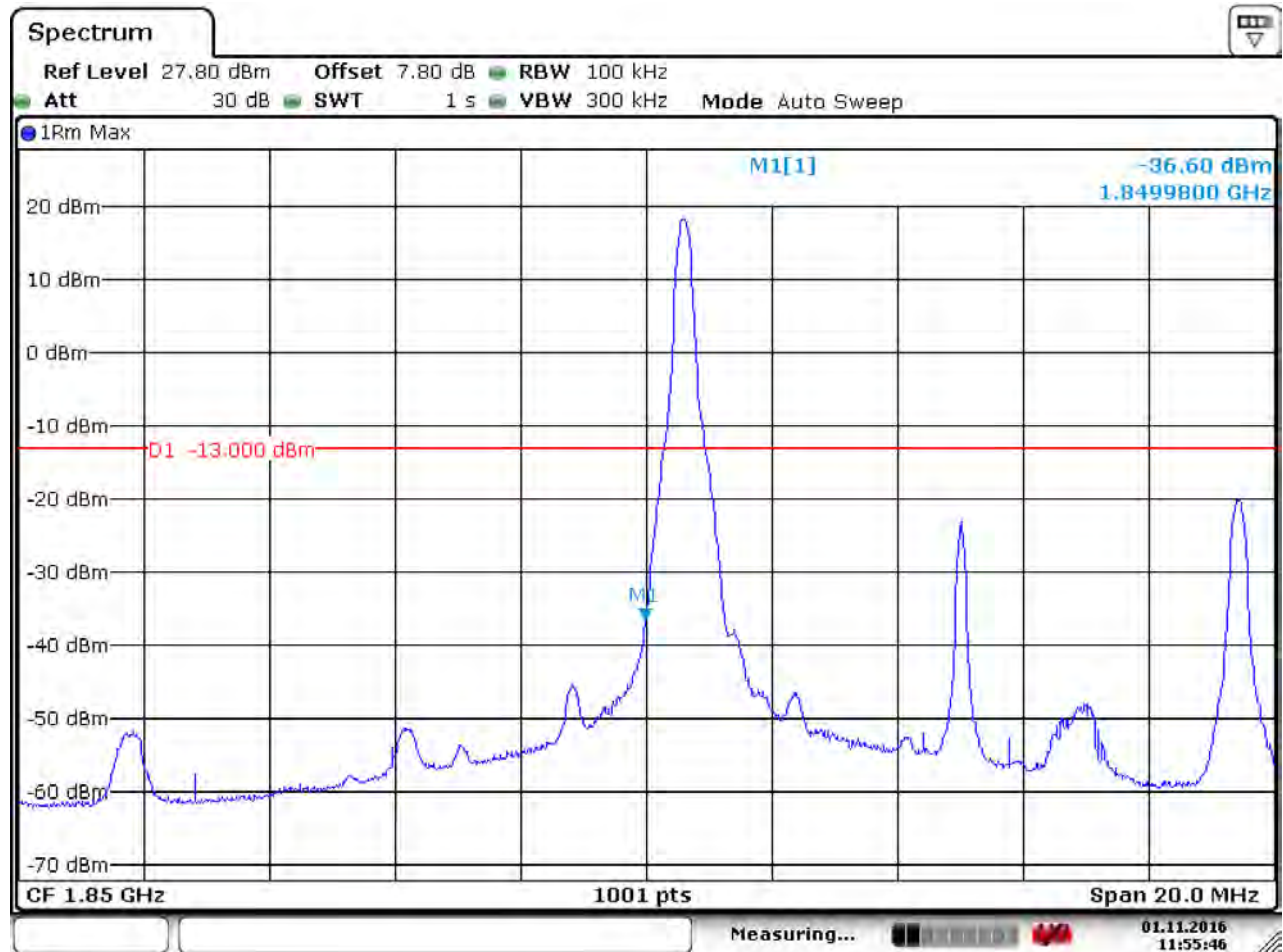
Date: 1.NOV.2016 11:50:35



5.1.1.12 Test Mode = LTE/TM3 10MHz

5.1.1.12.1 Test Channel = LCH

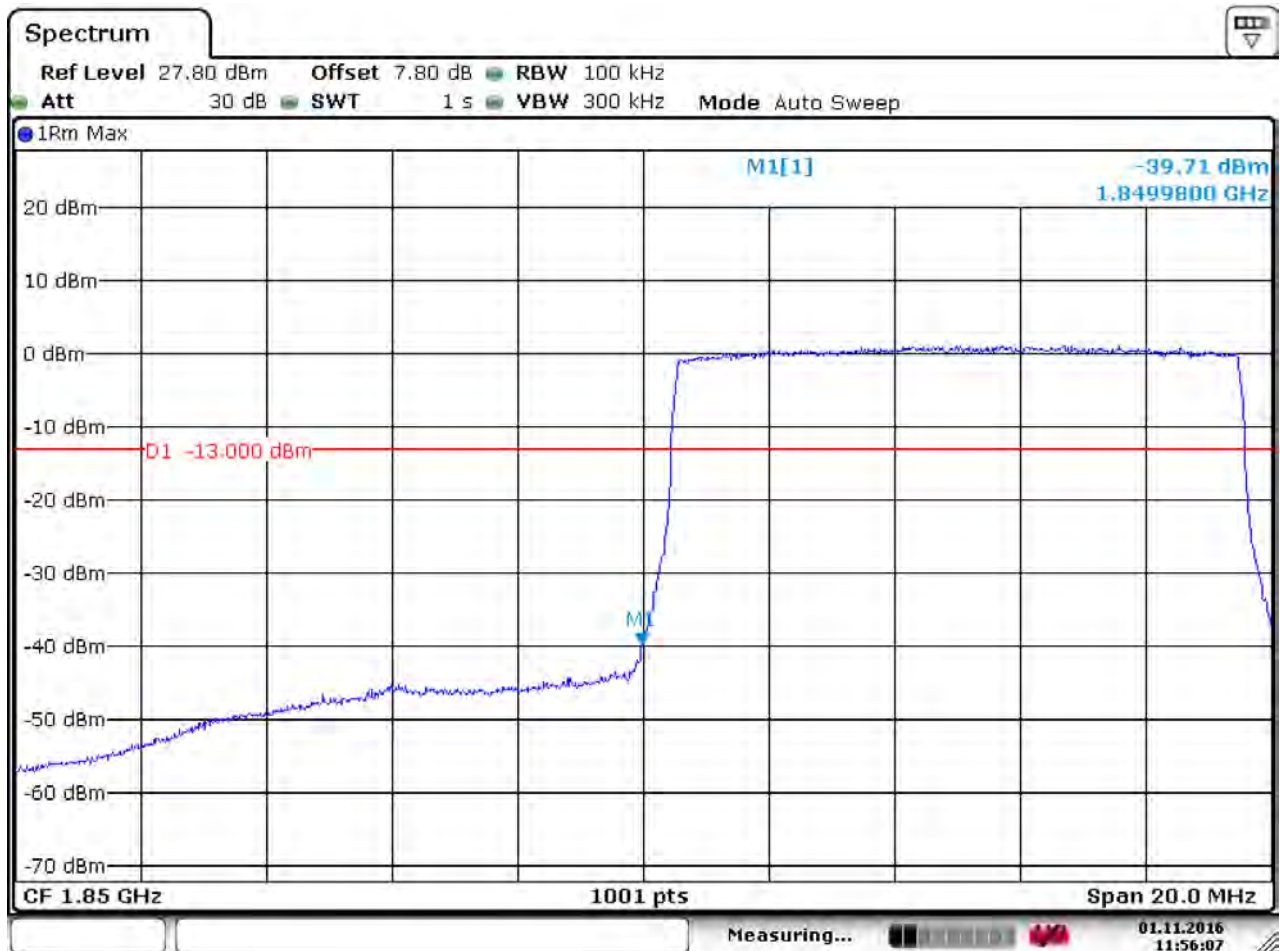
5.1.1.12.1.1 Test RB=1RB



Date: 1.NOV.2016 11:55:47



5.1.1.12.1.2 Test RB=50RB

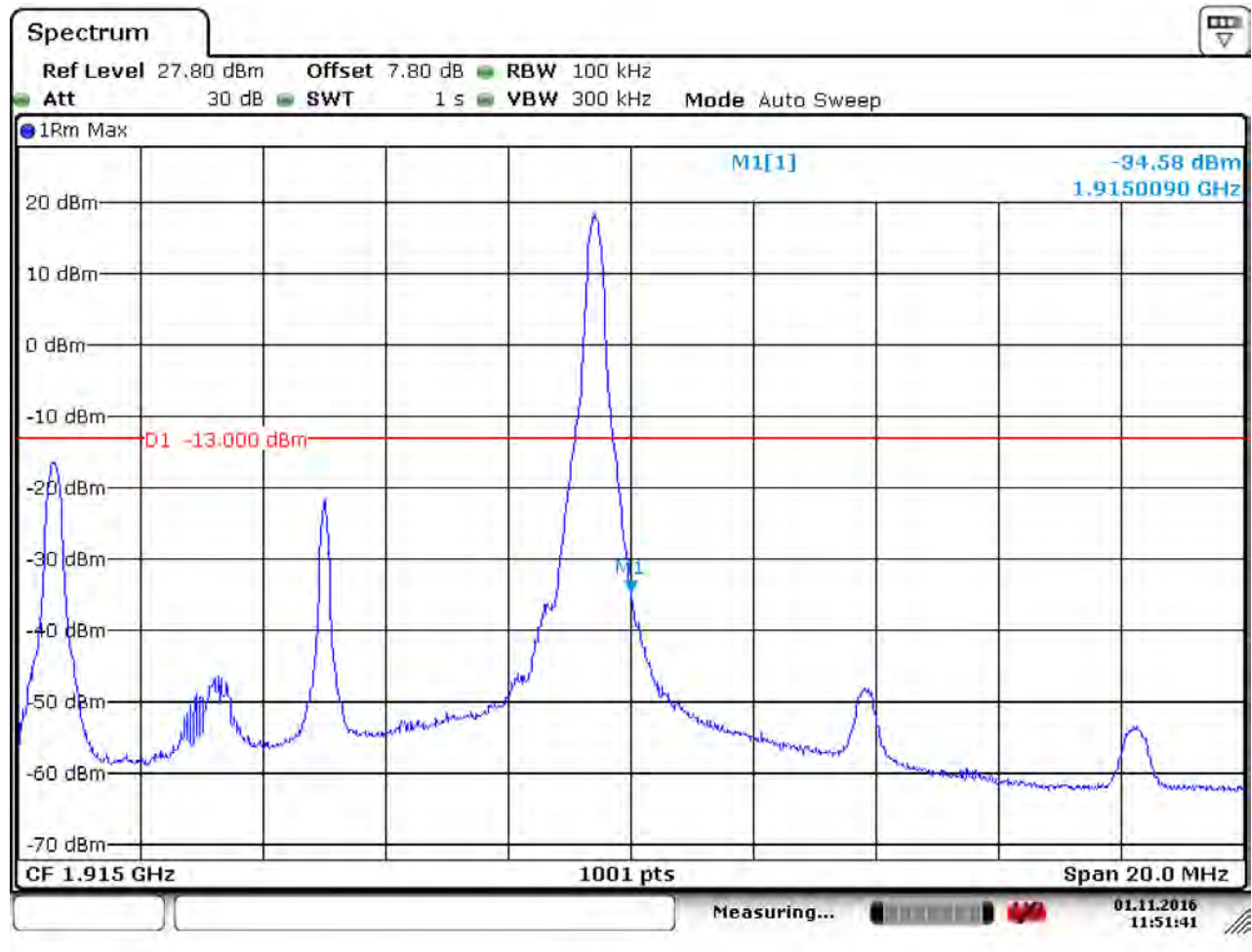


Date: 1.NOV.2016 11:56:07



5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 1.NOV.2016 11:51:42



5.1.12.2.2 Test RB=50RB



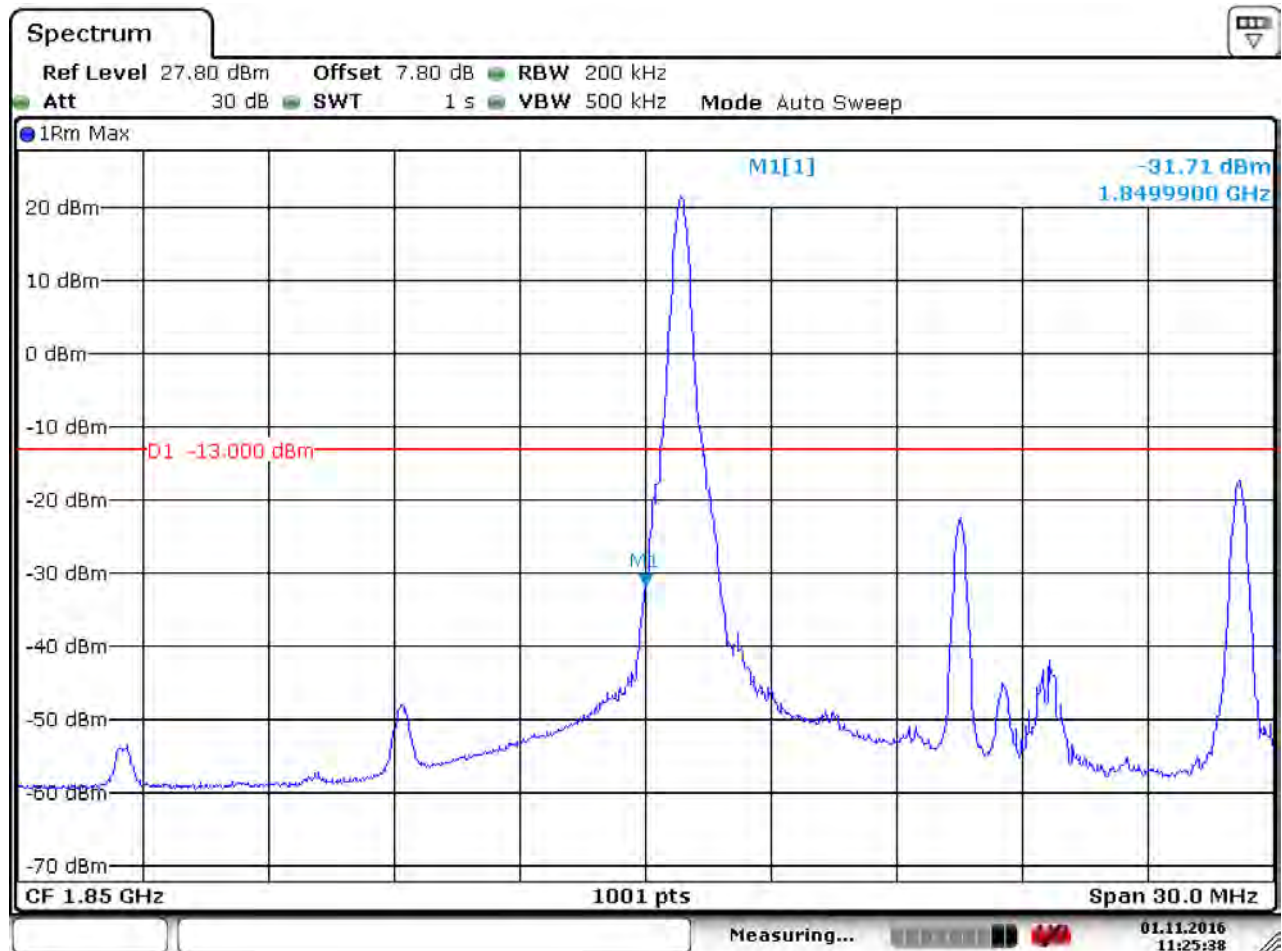
Date: 1.NOV.2016 11:51:05



5.1.1.13 Test Mode = LTE/TM1 15MHz

5.1.1.13.1 Test Channel = LCH

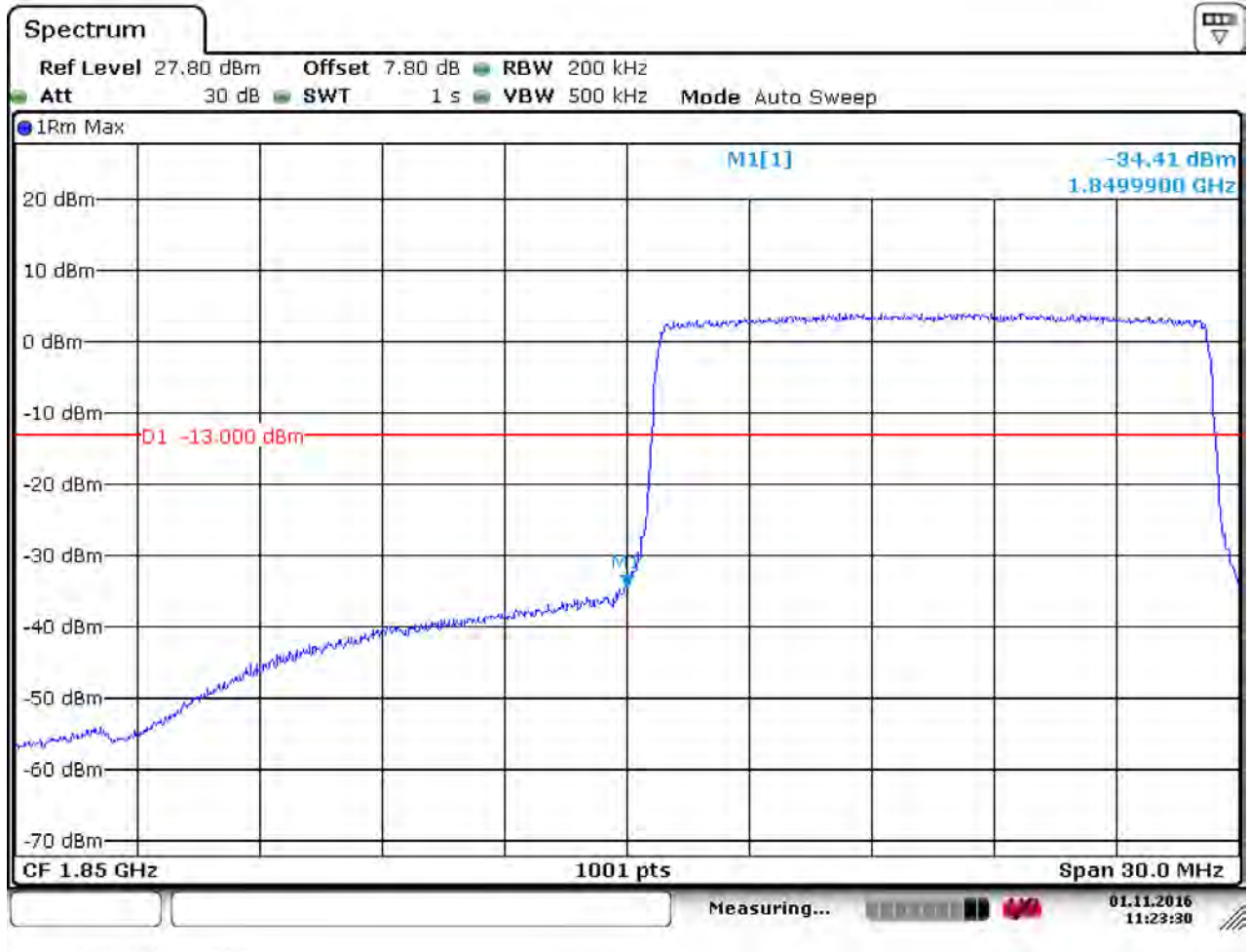
5.1.1.13.1.1 Test RB=1RB



Date: 1.NOV.2016 11:25:38



5.1.13.1.2 Test RB=75RB

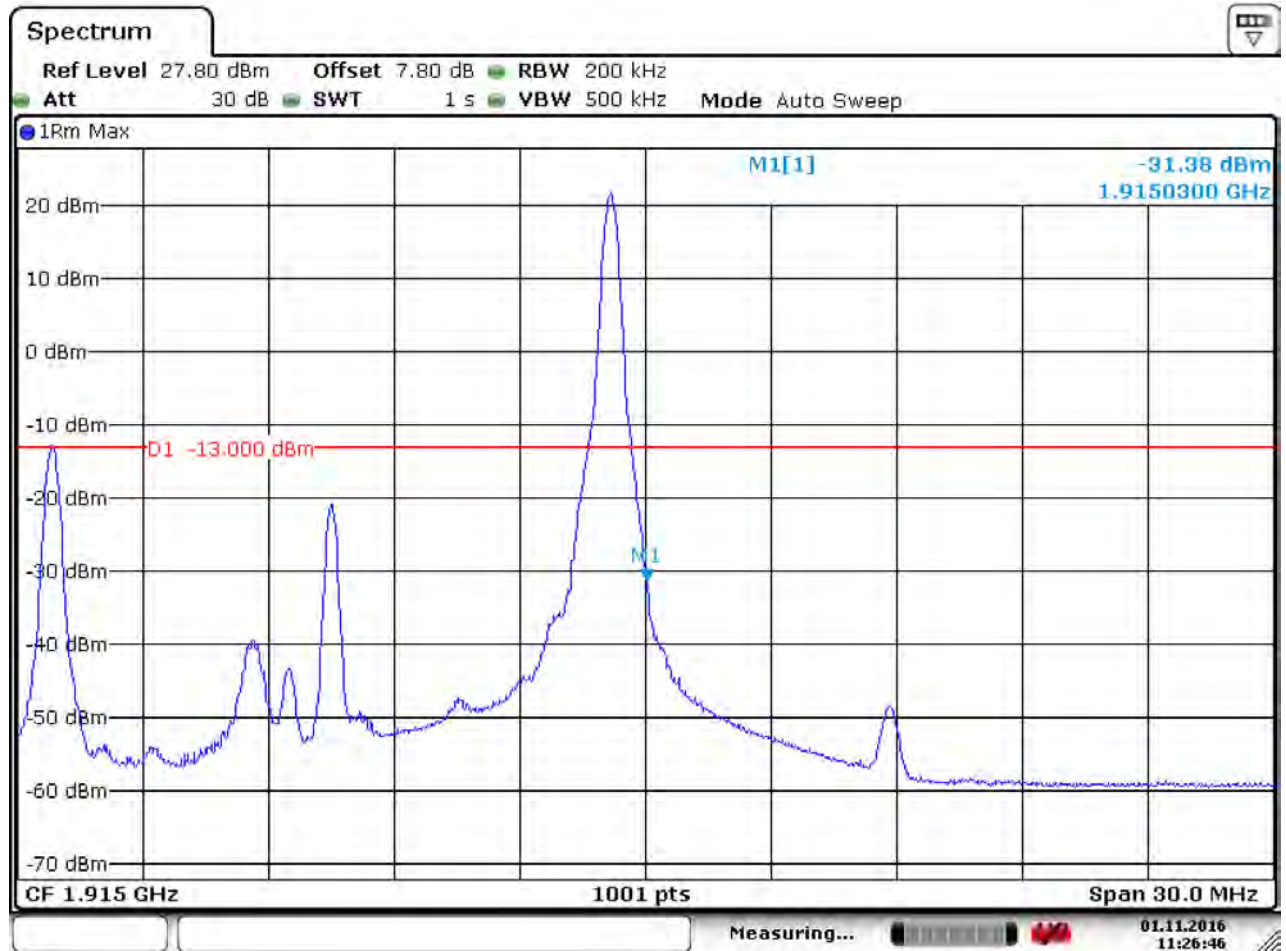


Date: 1. NOV. 2016 11:23:30



5.1.1.13.2 Test Channel = HCH

5.1.1.13.2.1 Test RB=1RB



Date: 1.NOV.2016 11:26:47



5.1.1.13.2.2 Test RB=75RB



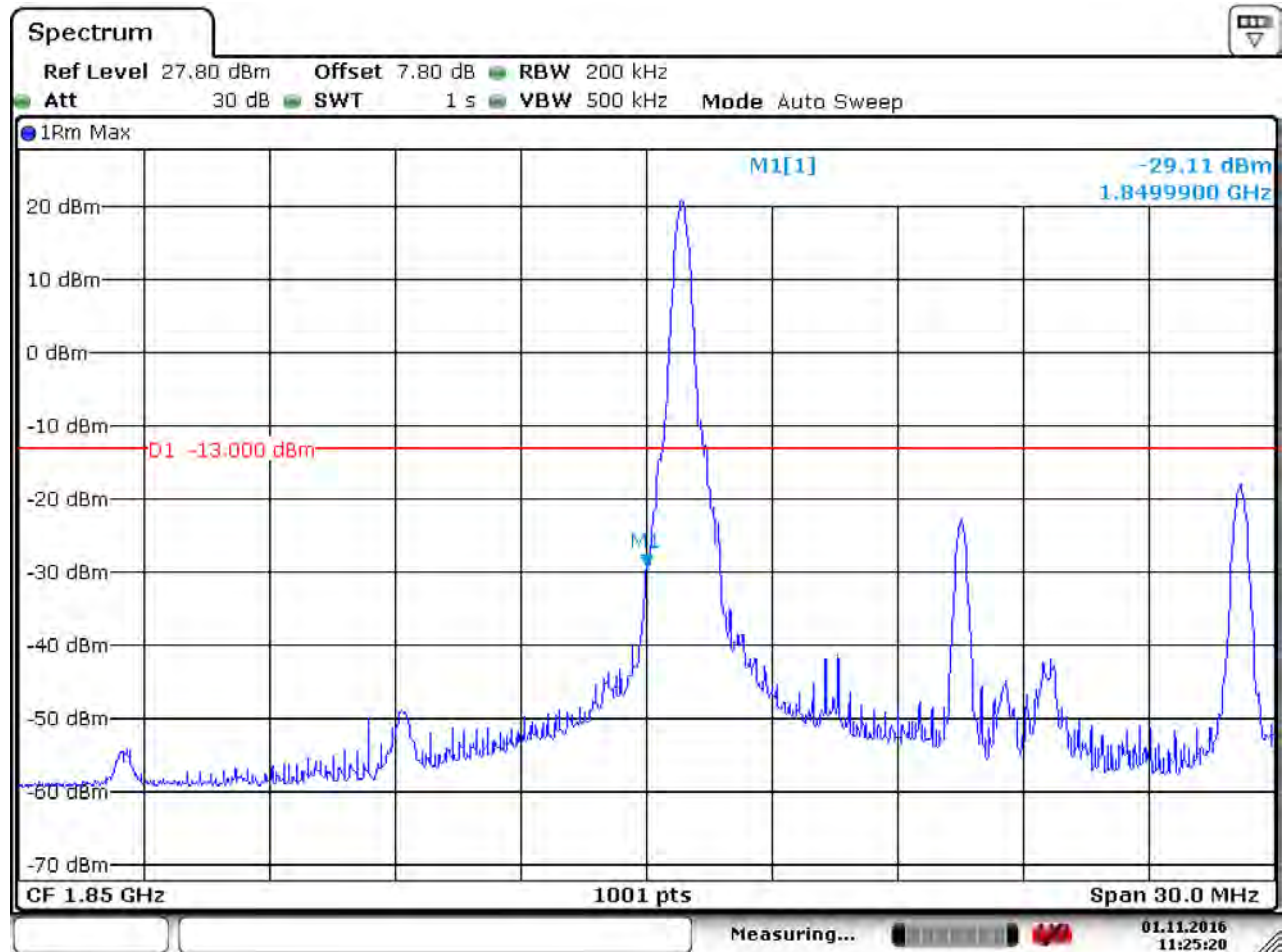
Date: 1.NOV.2016 11:29:08



5.1.1.14 Test Mode = LTE/TM2 15MHz

5.1.1.14.1 Test Channel = LCH

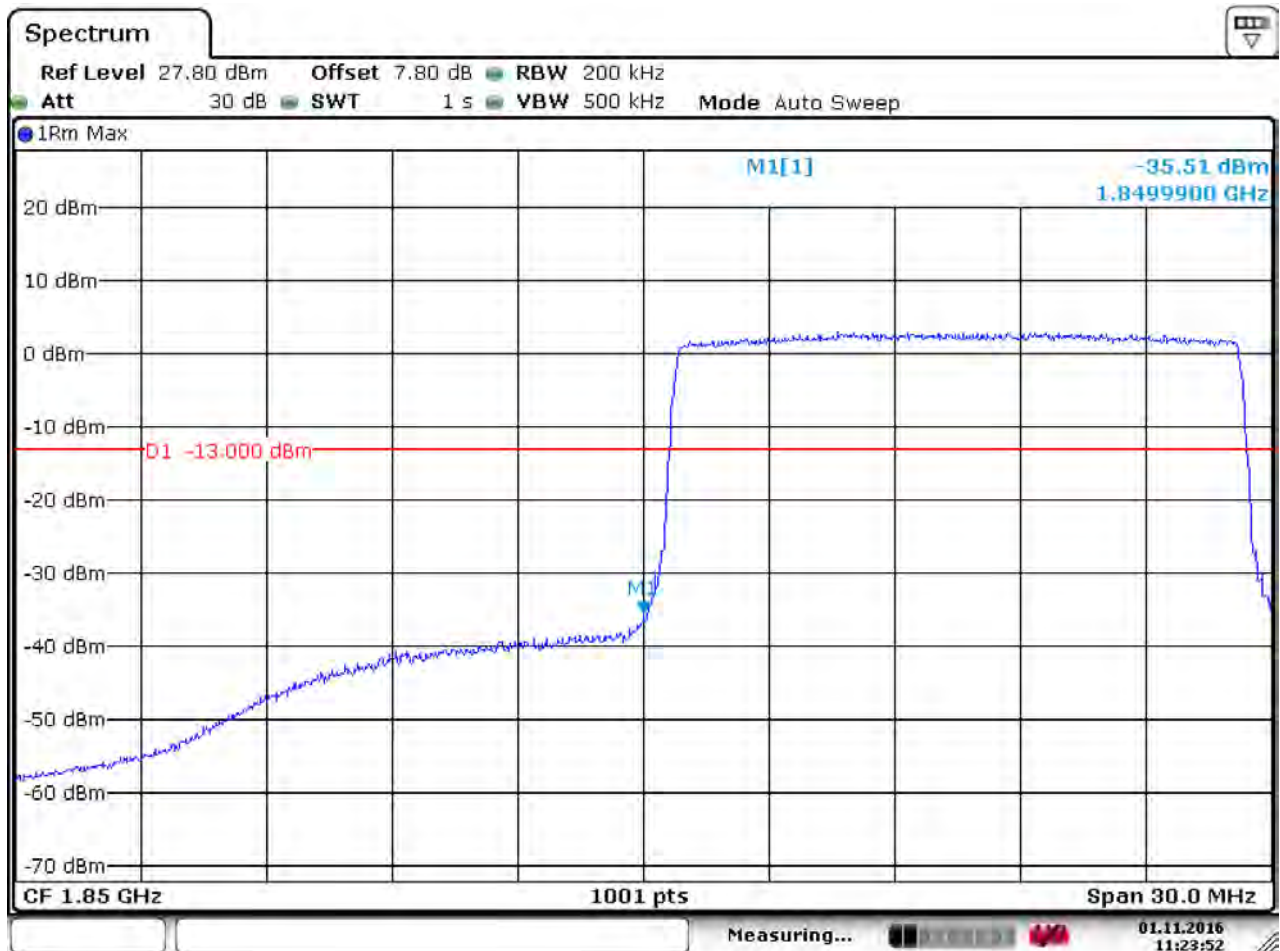
5.1.1.14.1.1 Test RB=1RB



Date: 1.NOV.2016 11:25:21



5.1.14.1.2 Test RB=75RB

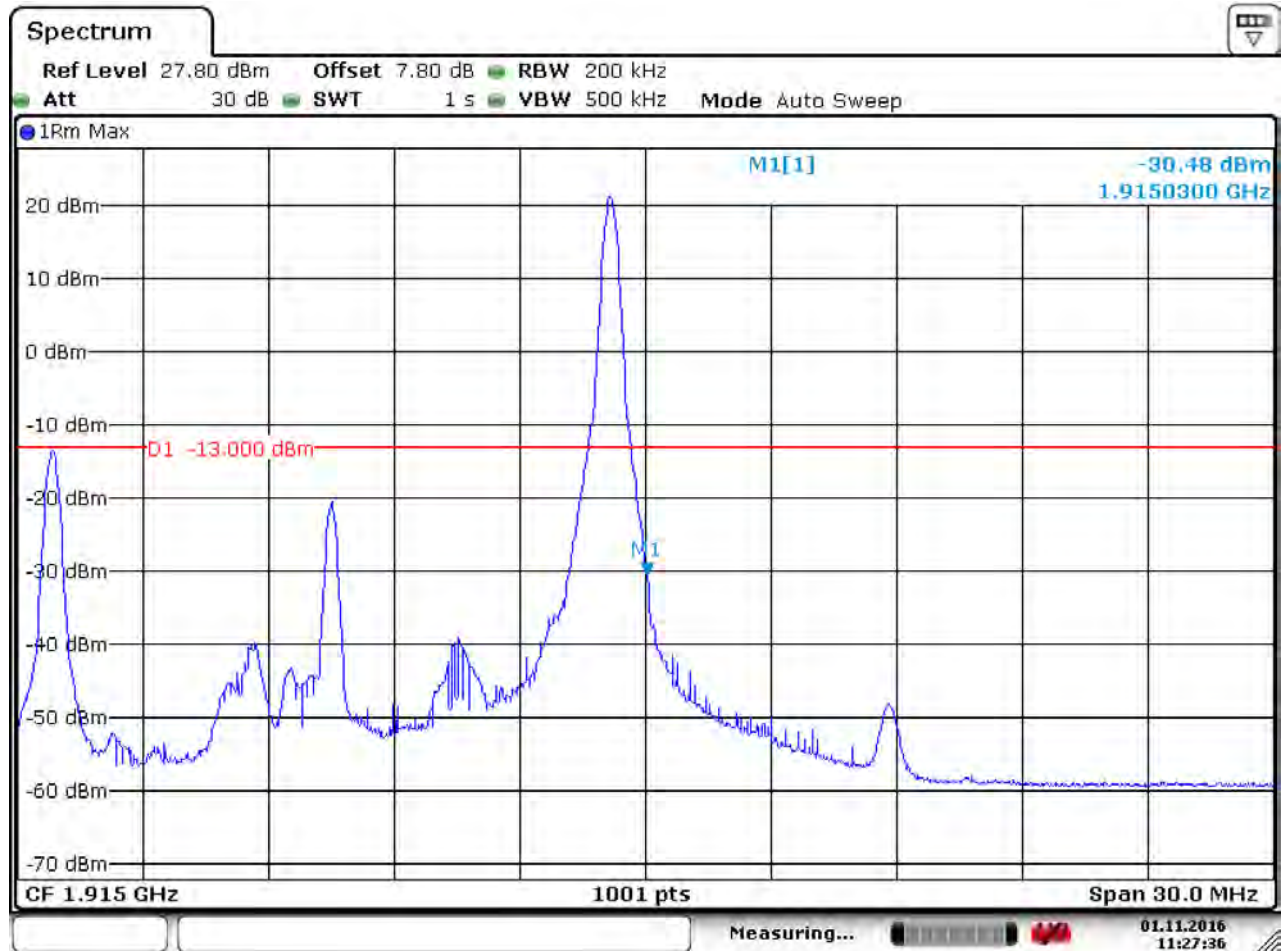


Date: 1.NOV.2016 11:23:53



5.1.1.14.2 Test Channel = HCH

5.1.1.14.2.1 Test RB=1RB



Date: 1.NOV.2016 11:27:36



5.1.14.2.2 Test RB=75RB



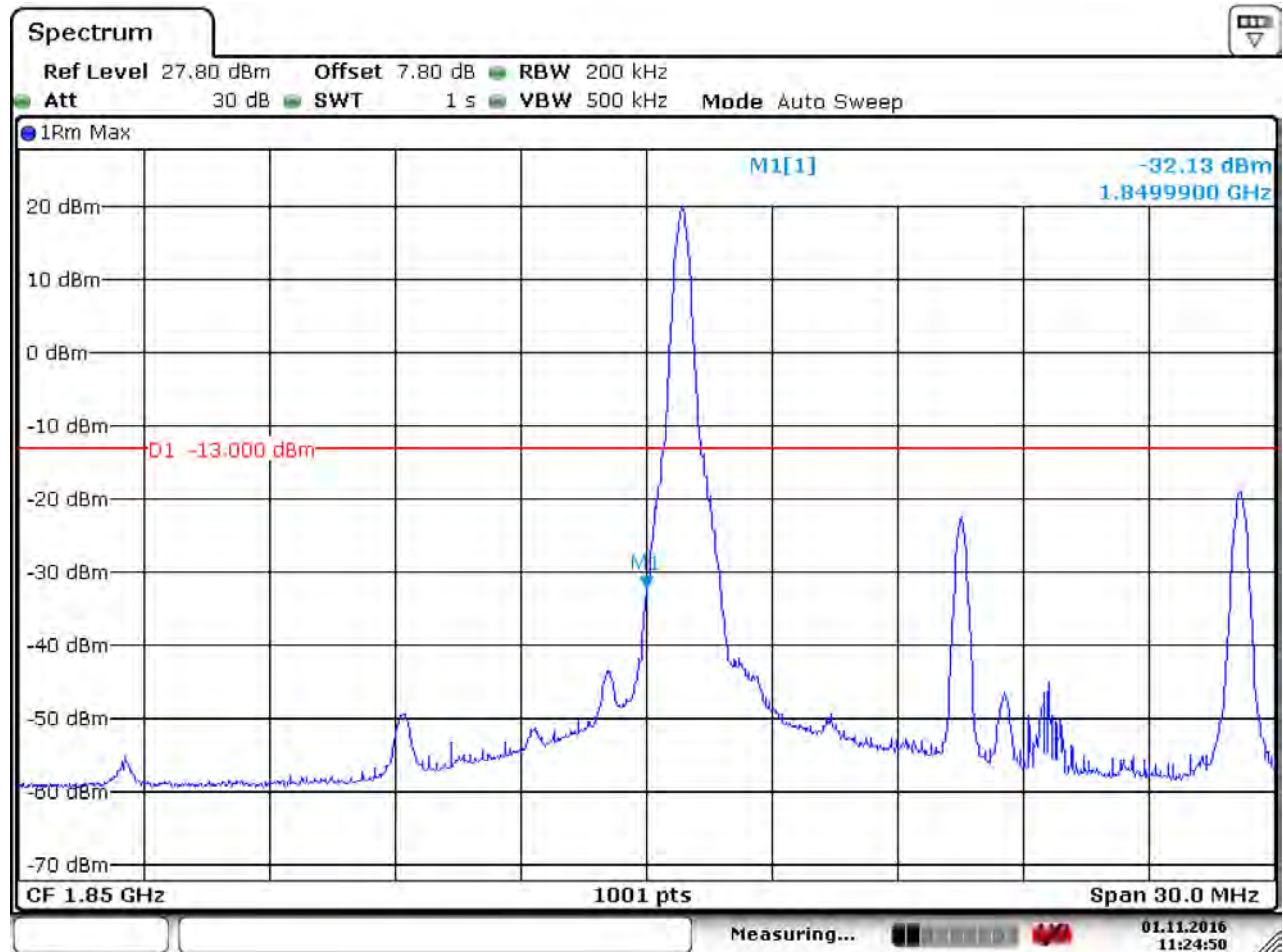
Date: 1.NOV.2016 11:28:46



5.1.1.15 Test Mode = LTE/TM3 15MHz

5.1.1.15.1 Test Channel = LCH

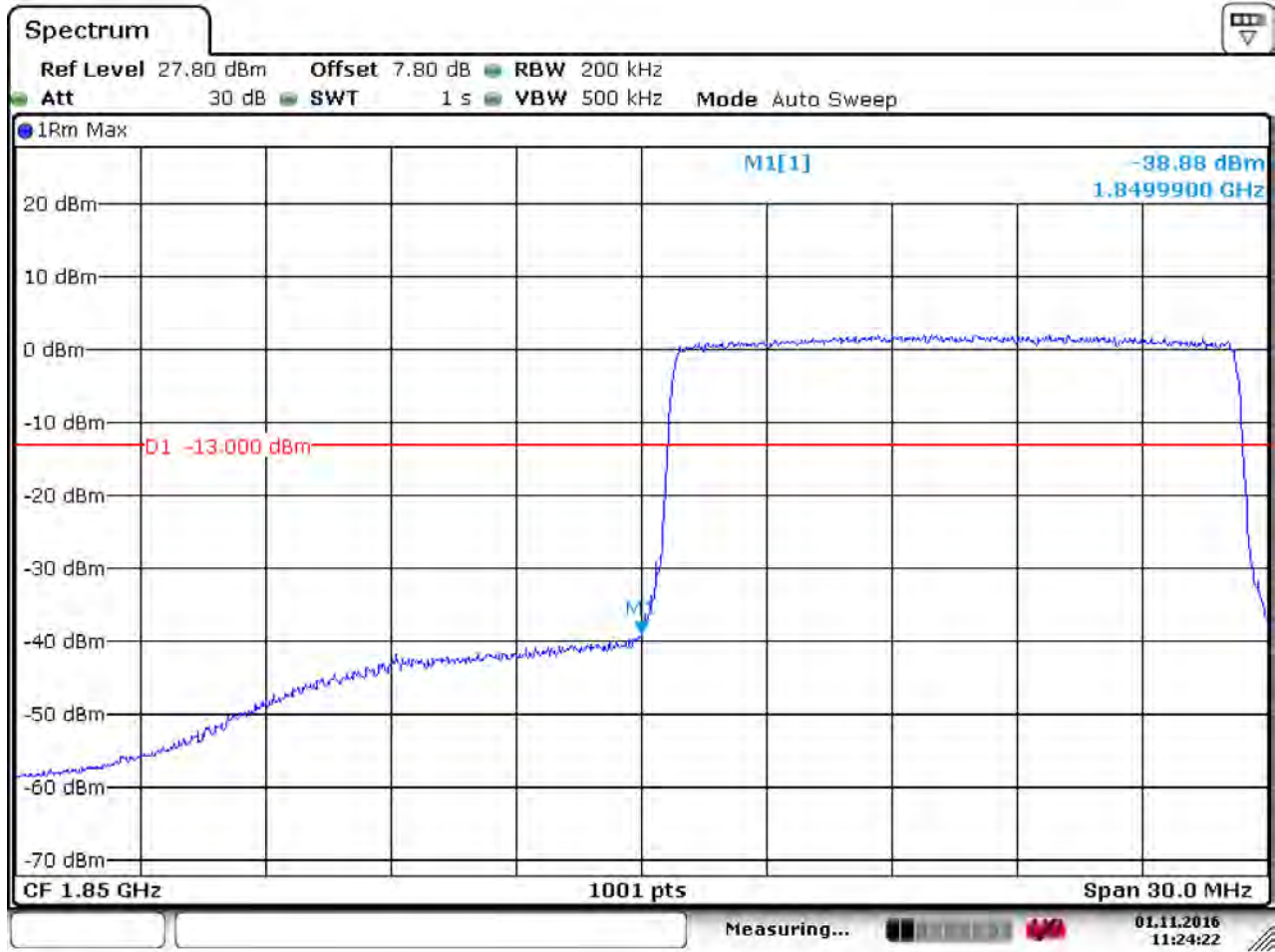
5.1.1.15.1.1 Test RB=1RB



Date: 1.NOV.2016 11:24:50



5.1.1.15.1.2 Test RB=75RB

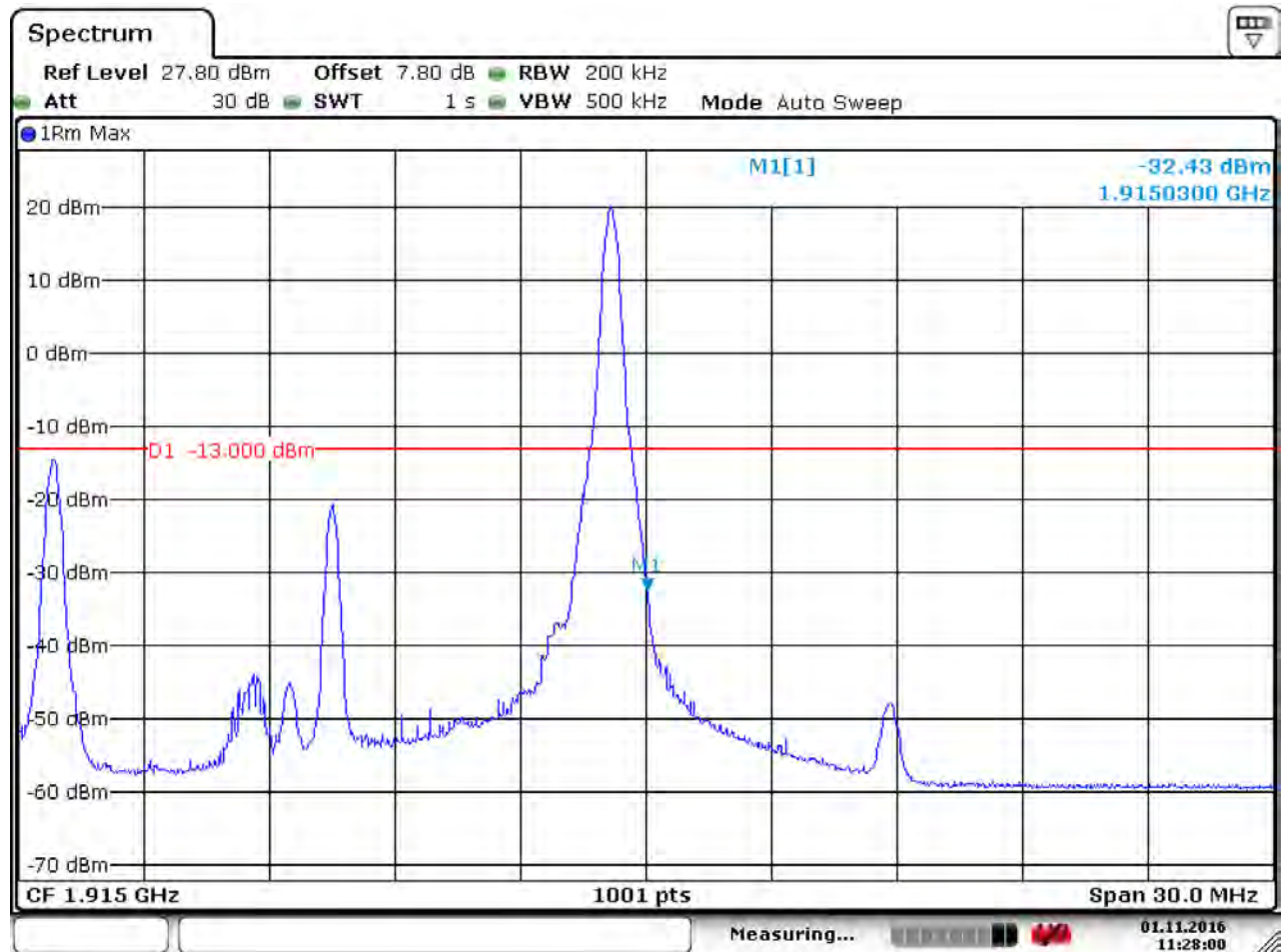


Date: 1.NOV.2016 11:24:23



5.1.1.15.2 Test Channel = HCH

5.1.1.15.2.1 Test RB=1RB



Date: 1.NOV.2016 11:28:01



5.1.1.15.2.2 Test RB=75RB



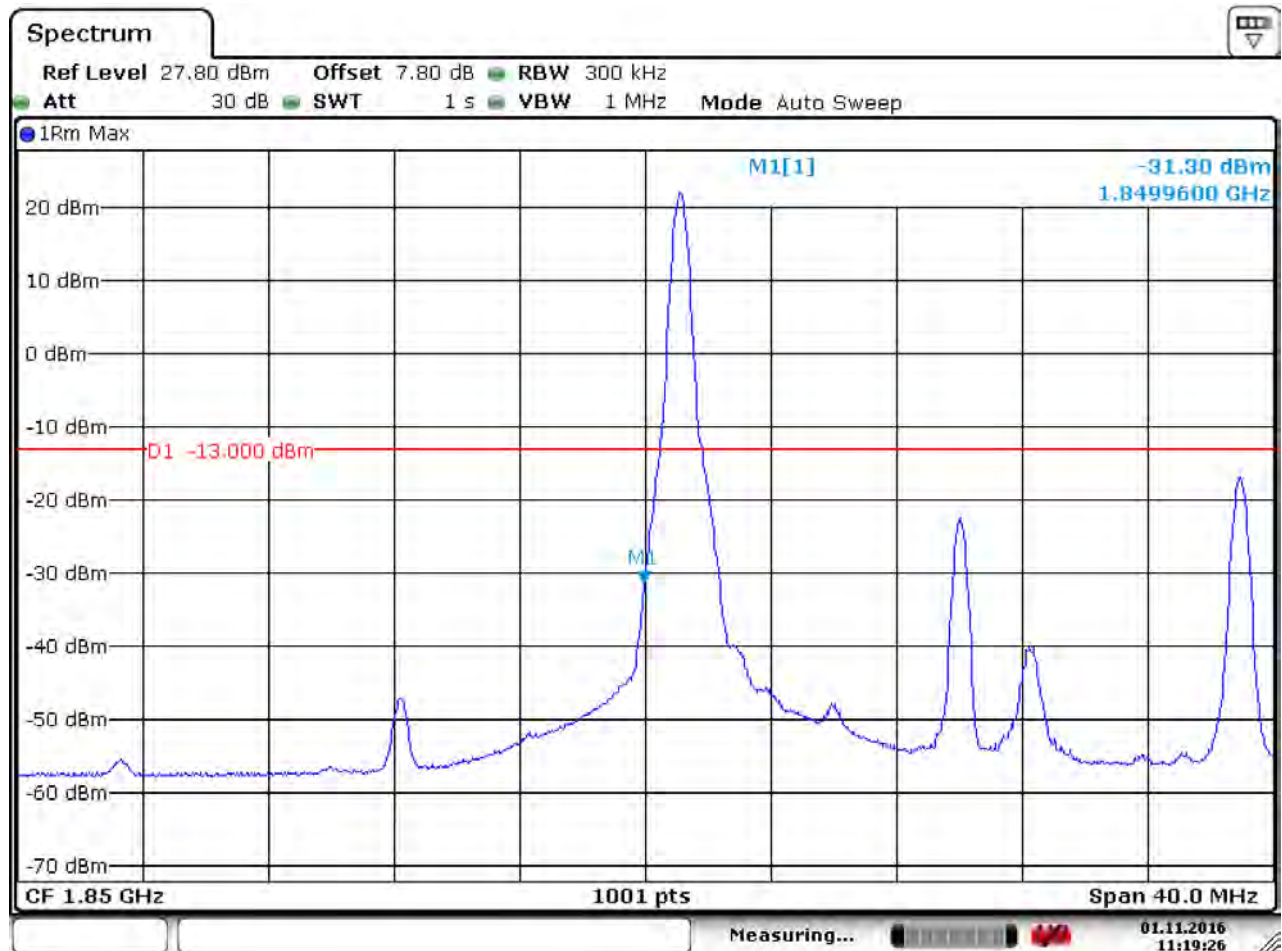
Date: 1.NOV.2016 11:28:21



5.1.1.16 Test Mode = LTE/TM1 20MHz

5.1.1.16.1 Test Channel = LCH

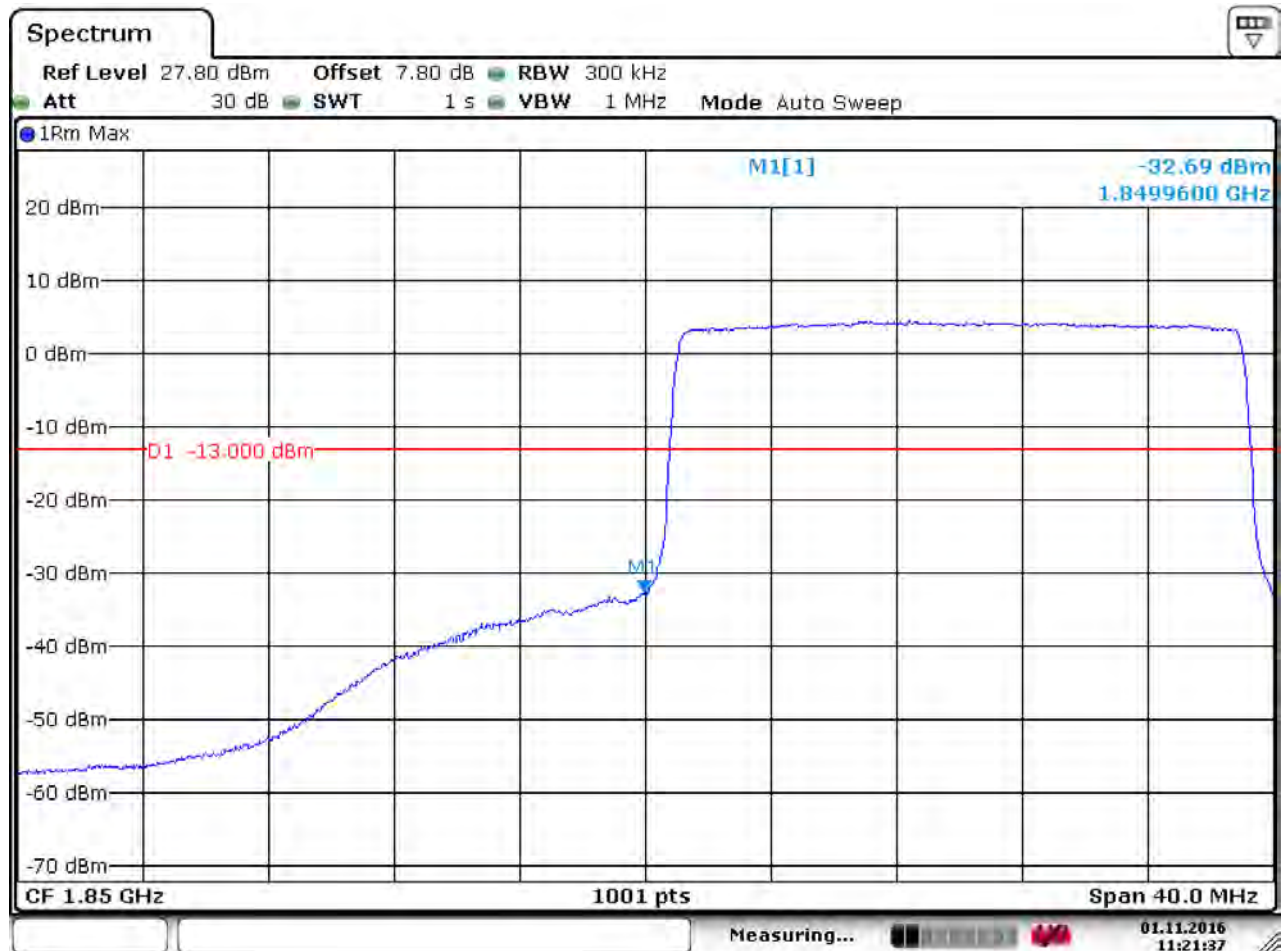
5.1.1.16.1.1 Test RB=1RB



Date: 1.NOV.2016 11:19:26



5.1.1.16.1.2 Test RB=100RB

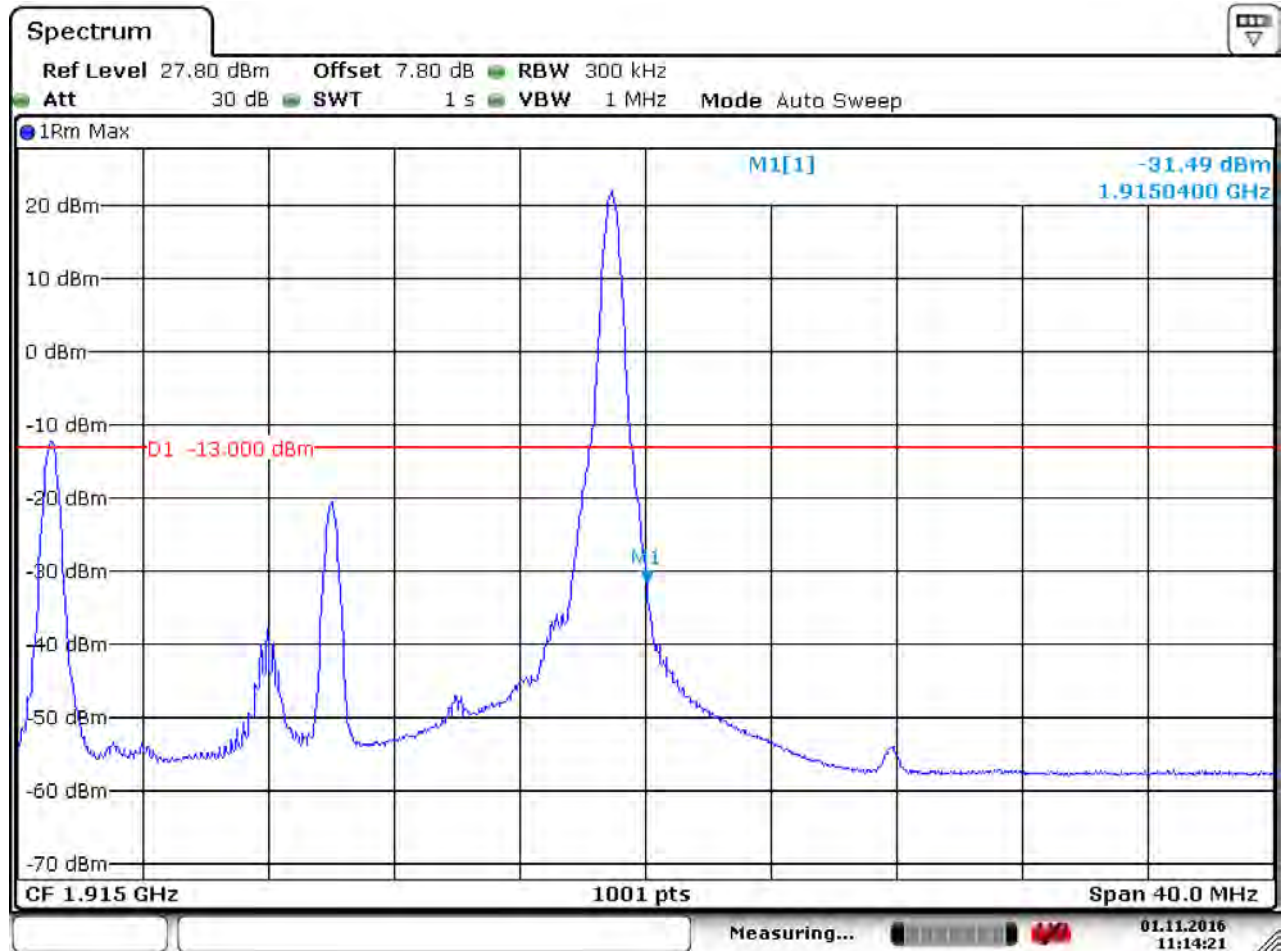


Date: 1.NOV.2016 11:21:38



5.1.1.16.2 Test Channel = HCH

5.1.1.16.2.1 Test RB=1RB



Date: 1.NOV.2016 11:14:22



5.1.1.16.2.2 Test RB=100RB



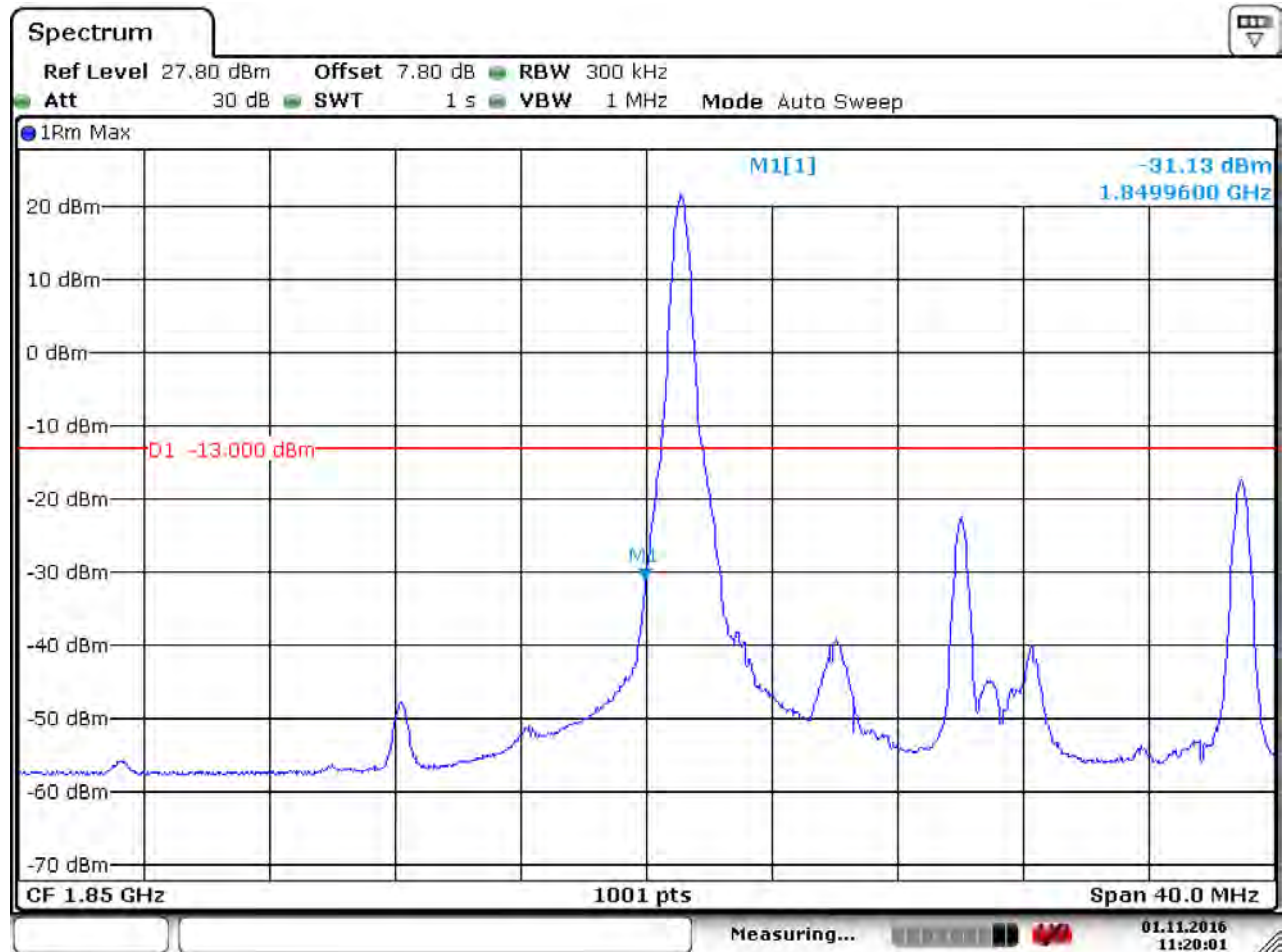
Date: 1.NOV.2016 10:46:16



5.1.1.17 Test Mode = LTE/TM2 20MHz

5.1.1.17.1 Test Channel = LCH

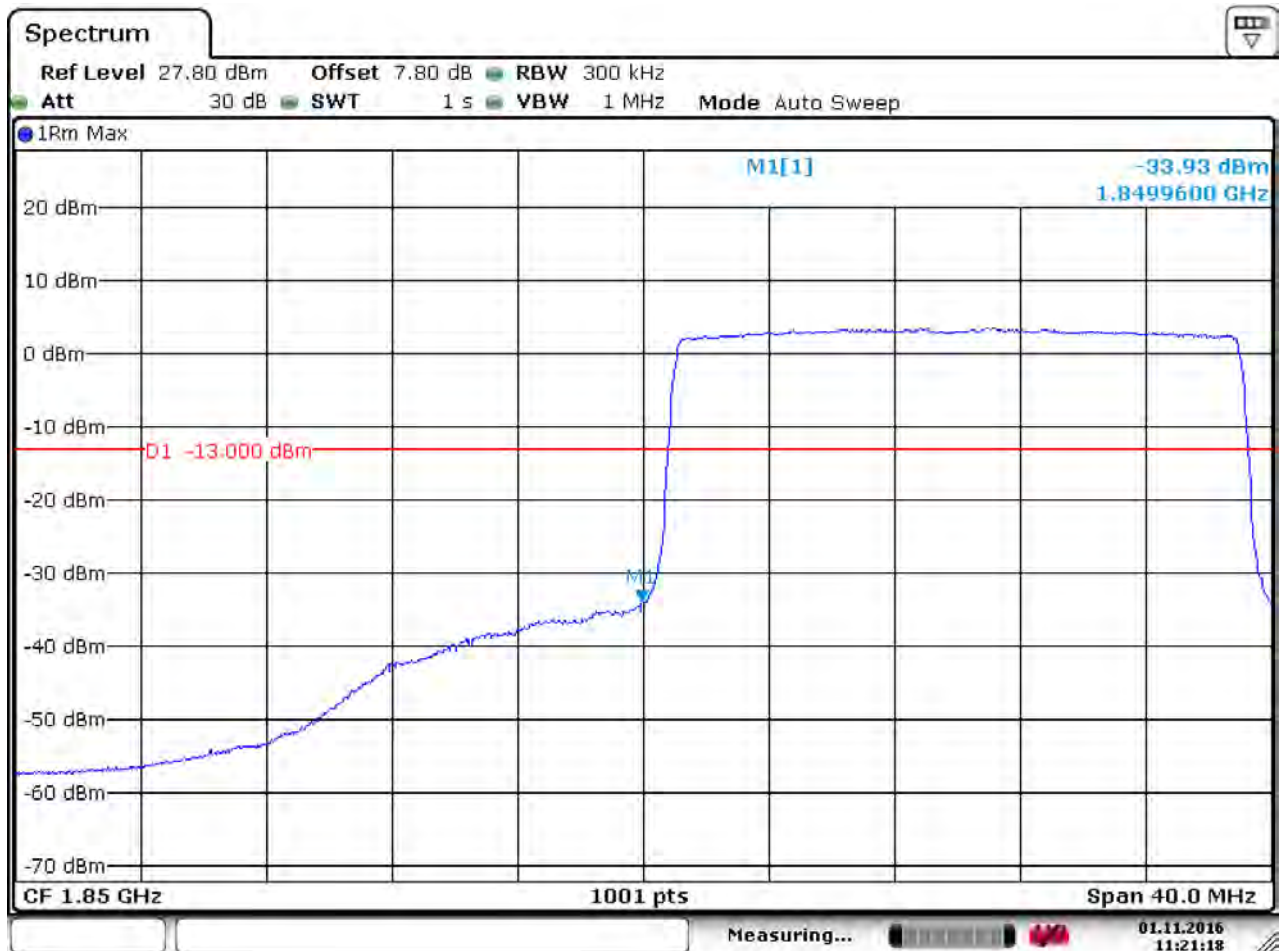
5.1.1.17.1.1 Test RB=1RB



Date: 1.NOV.2016 11:20:01



5.1.1.17.1.2 Test RB=100RB



Date: 1.NOV.2016 11:21:18



5.1.1.17.2 Test Channel = HCH

5.1.1.17.2.1 Test RB=1RB



Date: 1.NOV.2016 11:12:29



5.1.1.17.2.2 Test RB=100RB



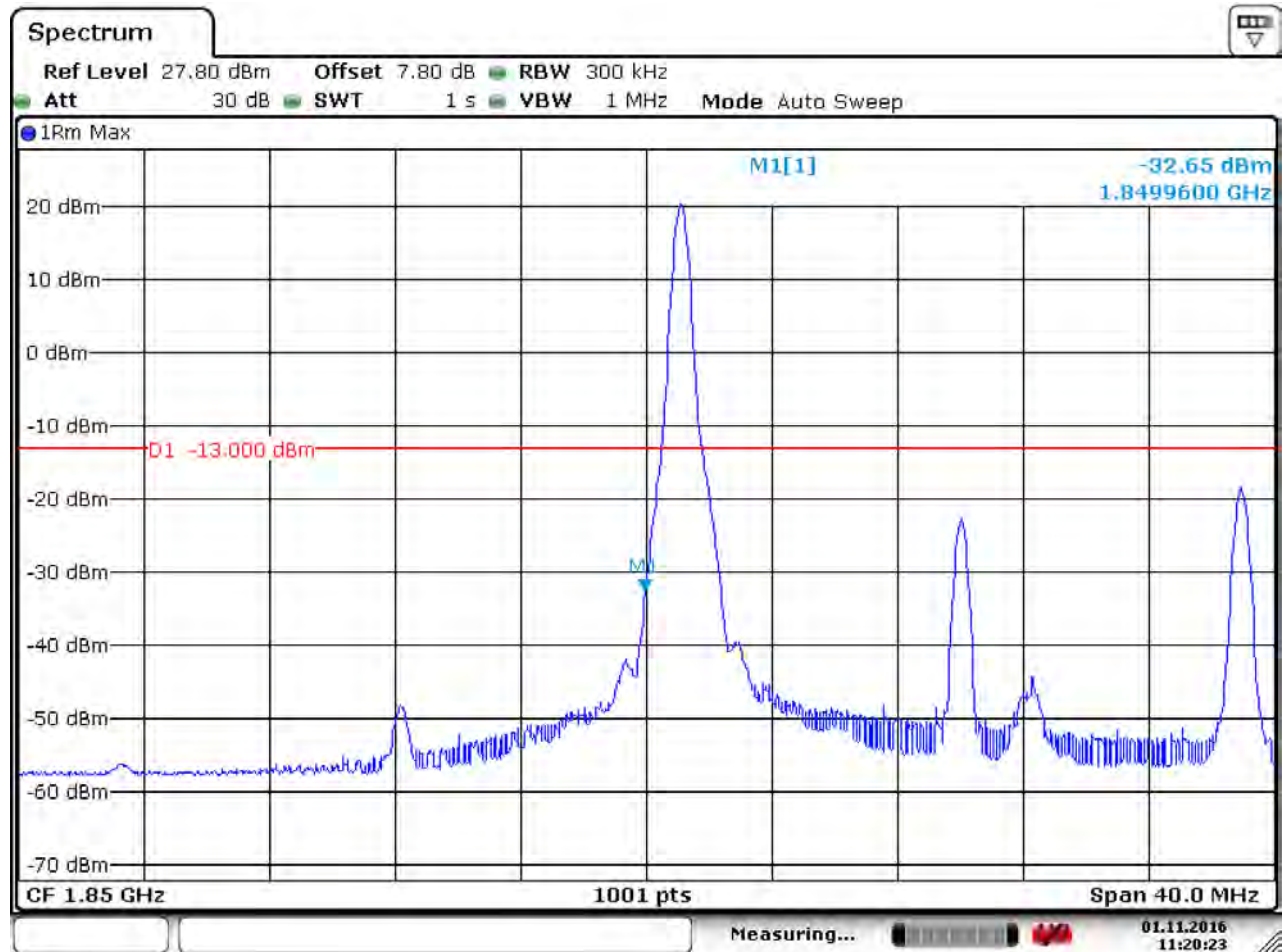
Date: 1.NOV.2016 11:12:29



5.1.1.18 Test Mode = LTE/TM3 20MHz

5.1.1.18.1 Test Channel = LCH

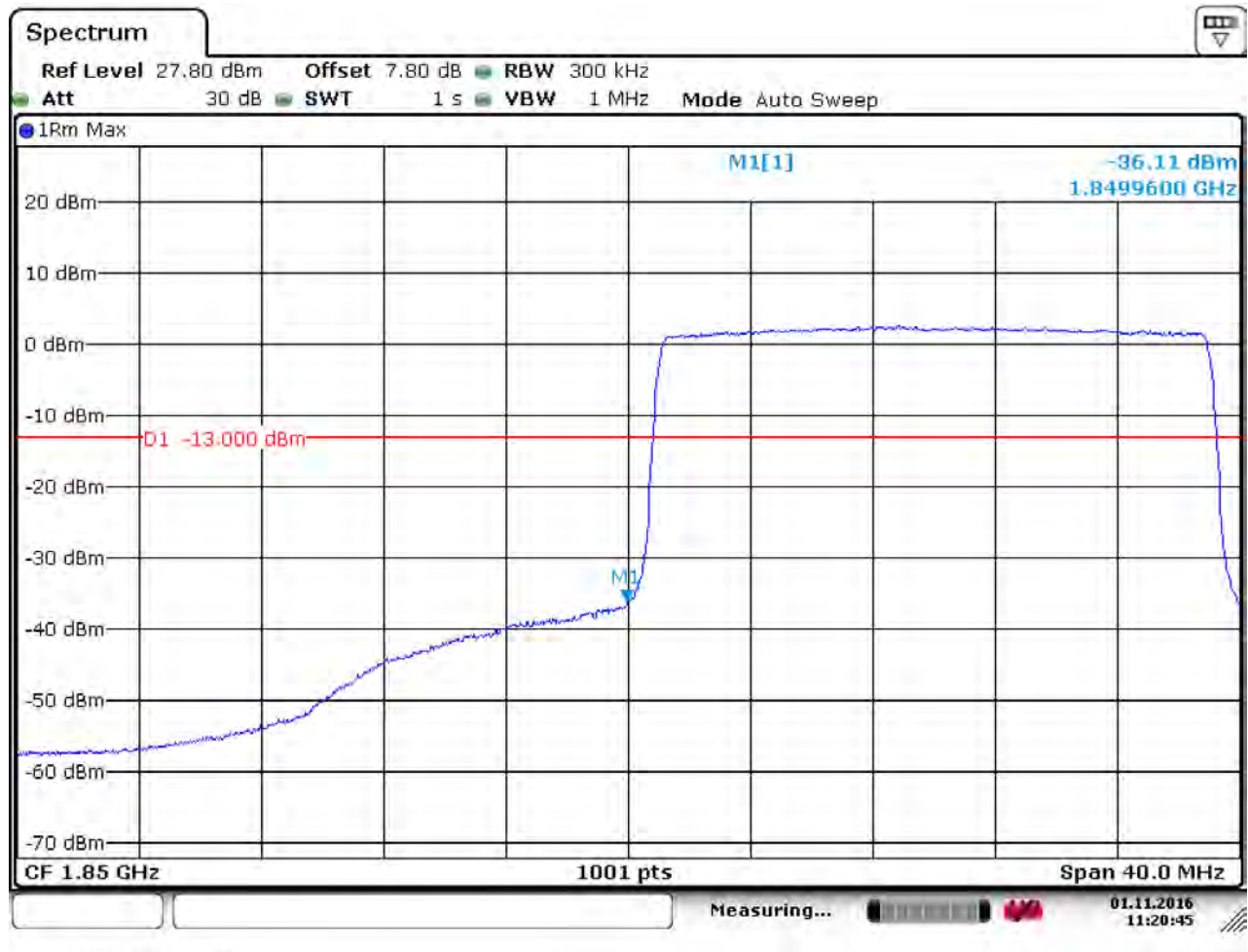
5.1.1.18.1.1 Test RB=1RB



Date: 1.NOV.2016 11:20:24



5.1.1.18.1.2 Test RB=100RB

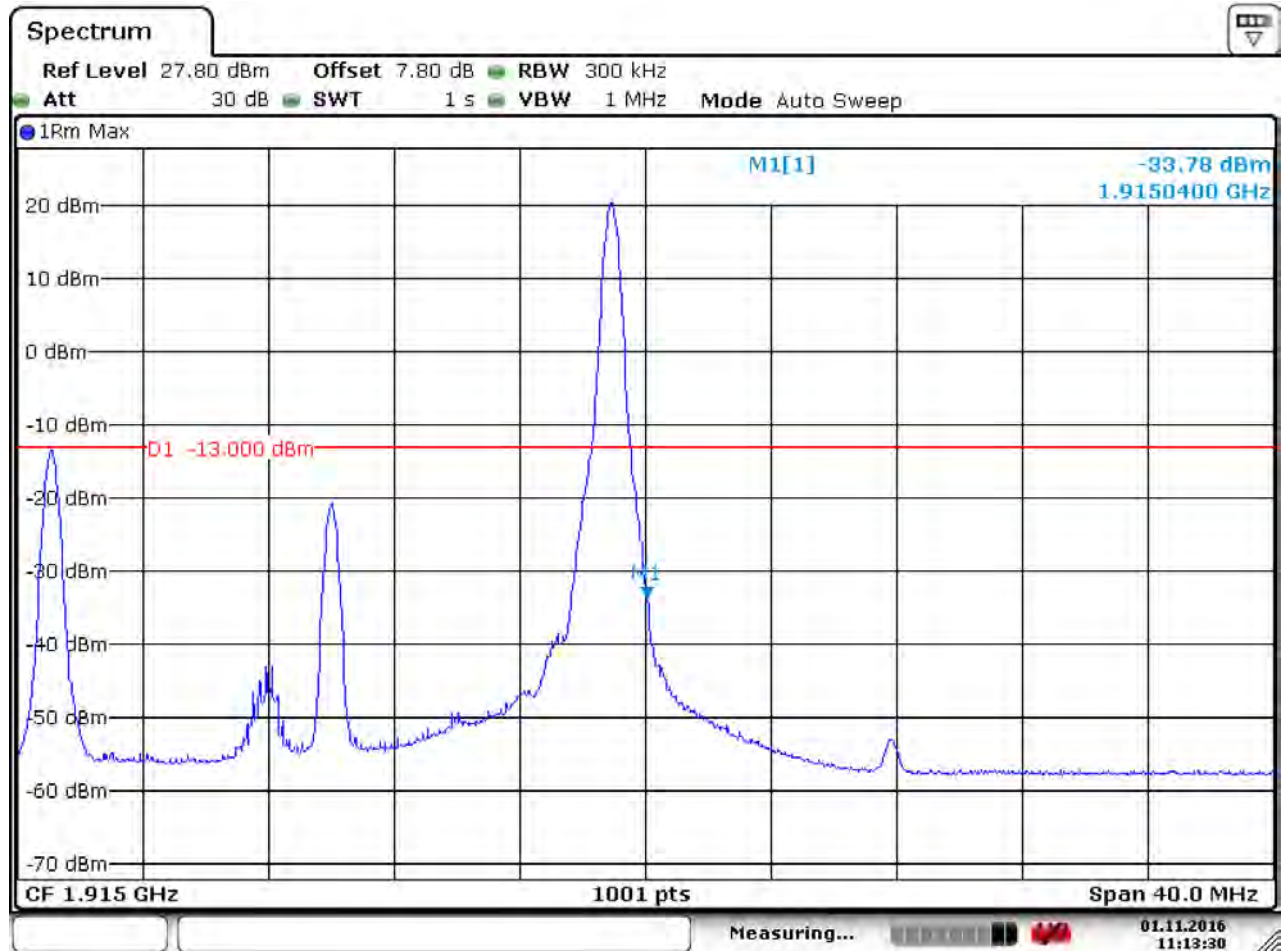


Date: 1.NOV.2016 11:20:46



5.1.1.18.2 Test Channel = HCH

5.1.1.18.2.1 Test RB=1RB



Date: 1.NOV.2016 11:13:31



5.1.1.18.2.2 Test RB=100RB



Date: 1.NOV.2016 11:12:56



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.

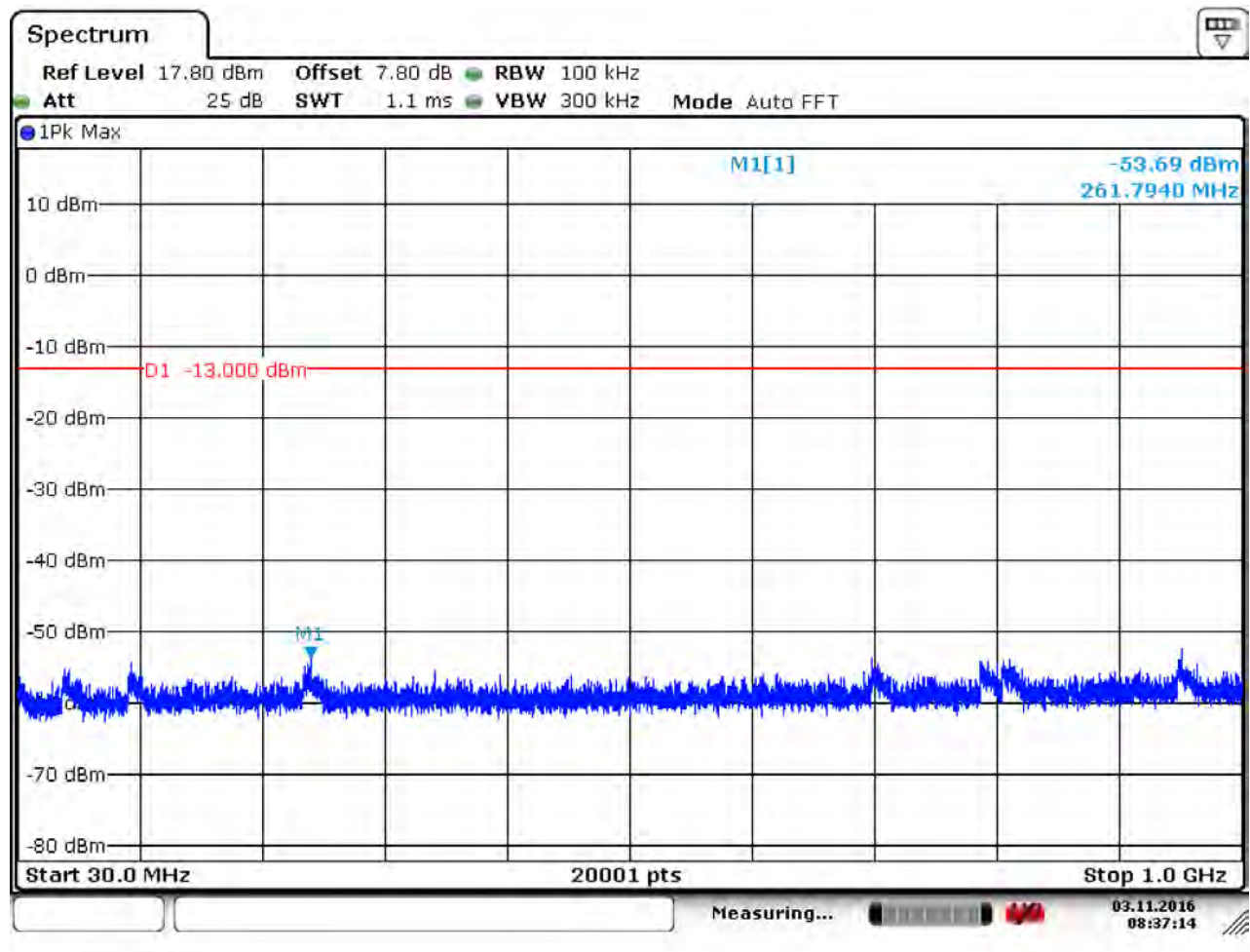
Part I - Test Plots

6.1 For LTE

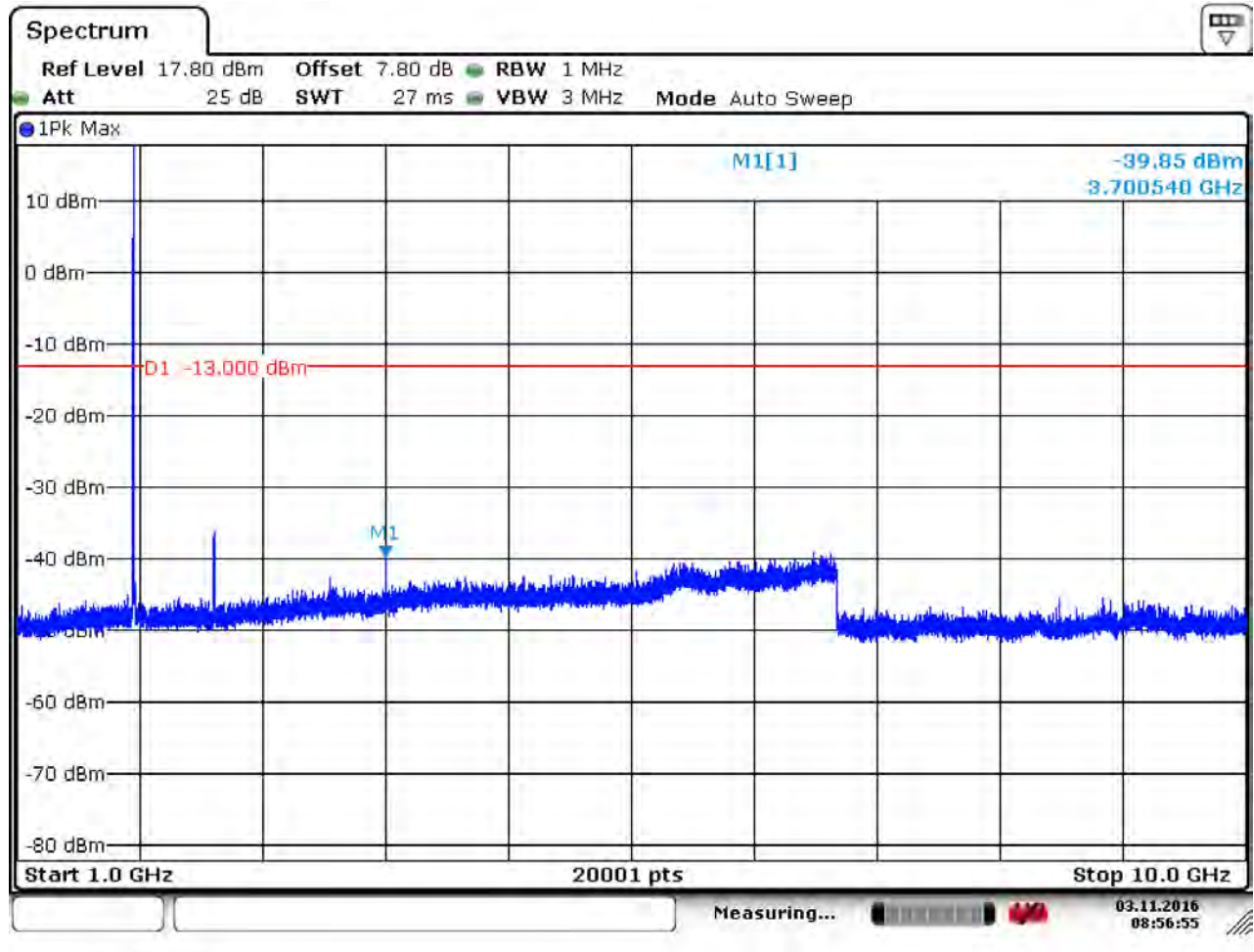
6.1.1 Test Band = LTE band 25

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

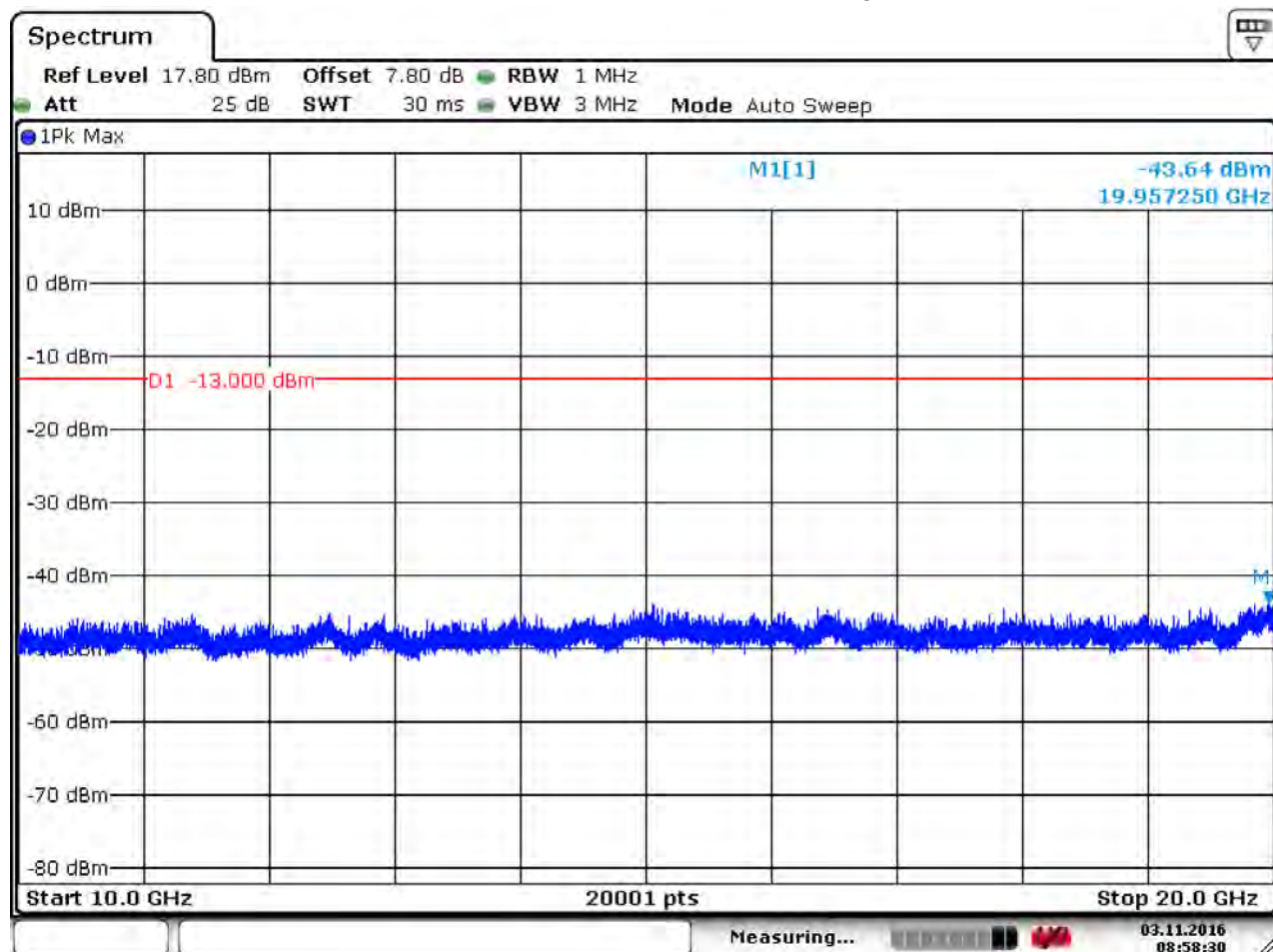
6.1.1.1.1 Test Channel = LCH



Date: 3.NOV.2016 08:37:14



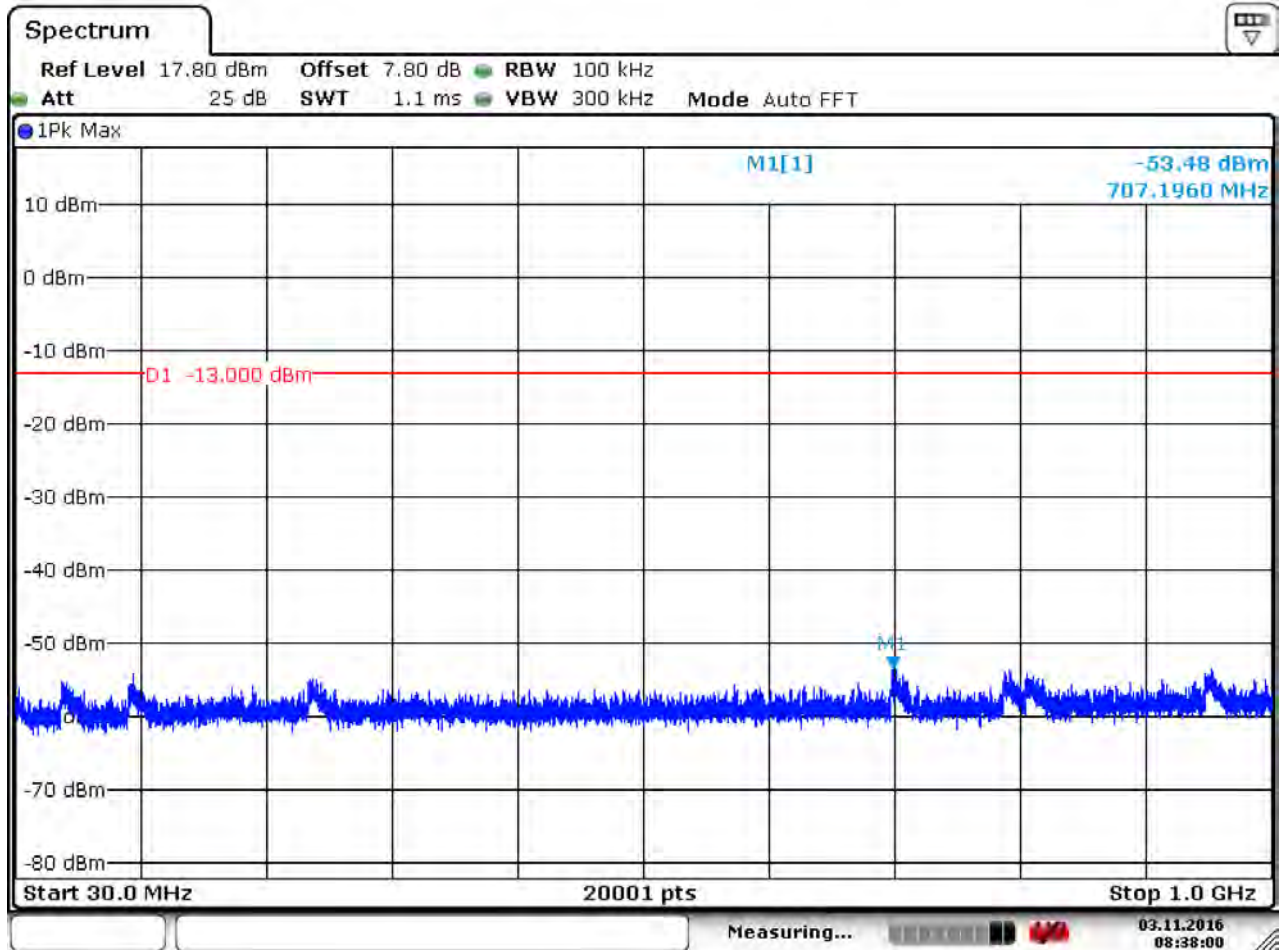
Date: 3.NOV.2016 08:56:54



Date: 3.NOV.2016 08:58:30



6.1.1.1.2 Test Channel = MCH



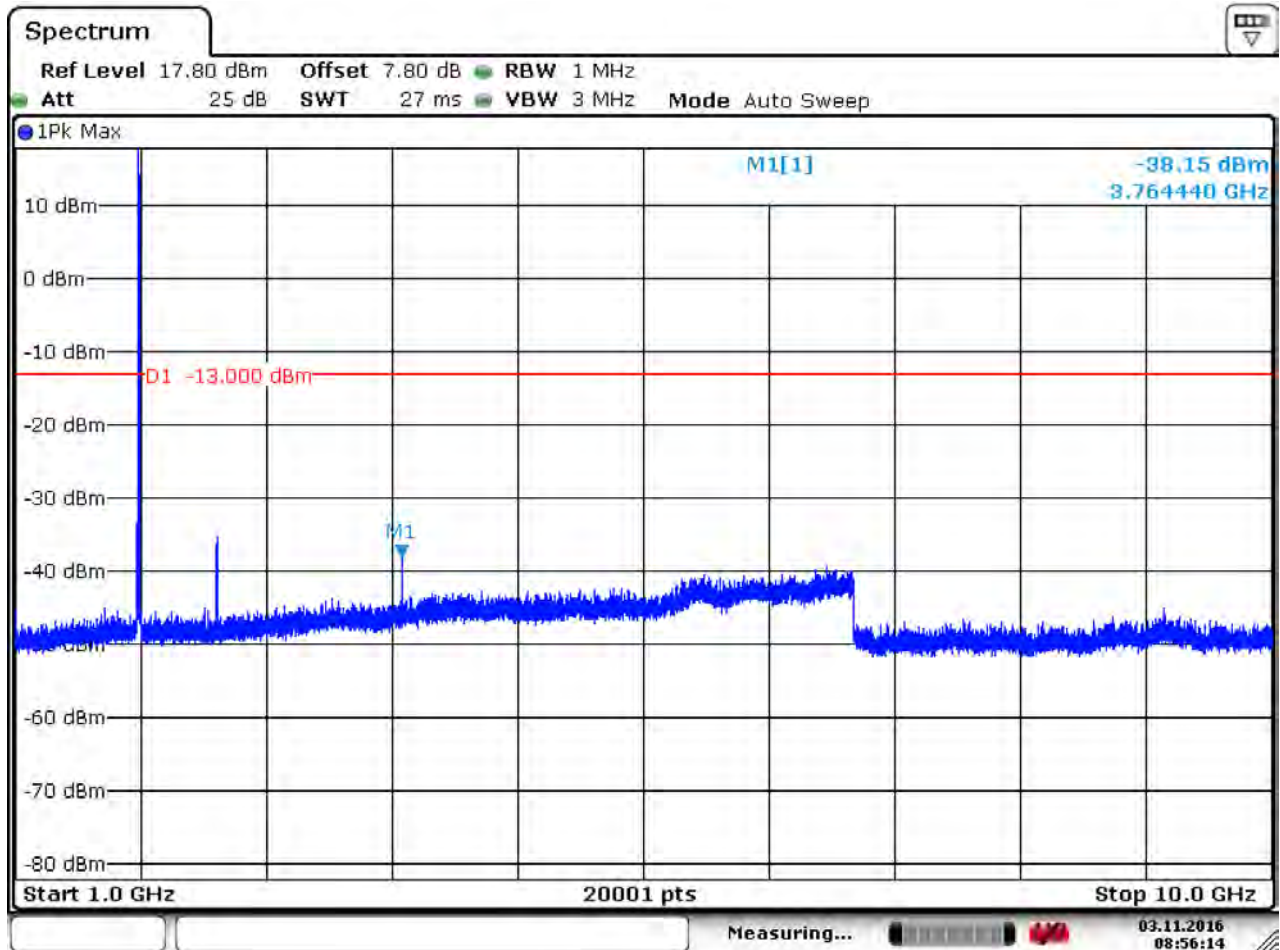
Date: 3 NOV. 2016 08:38:00



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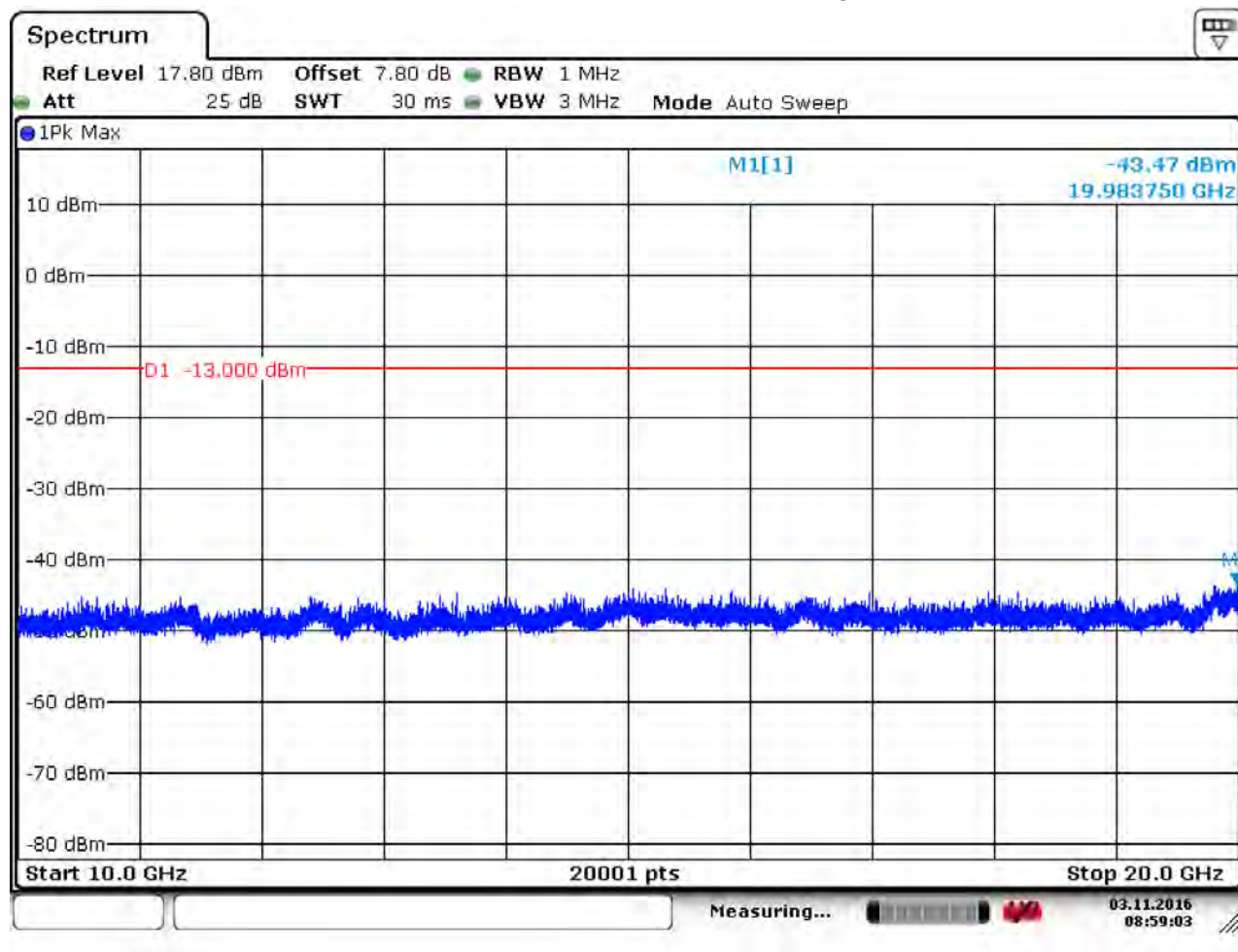
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Date: 3.NOV.2016 08:56:15

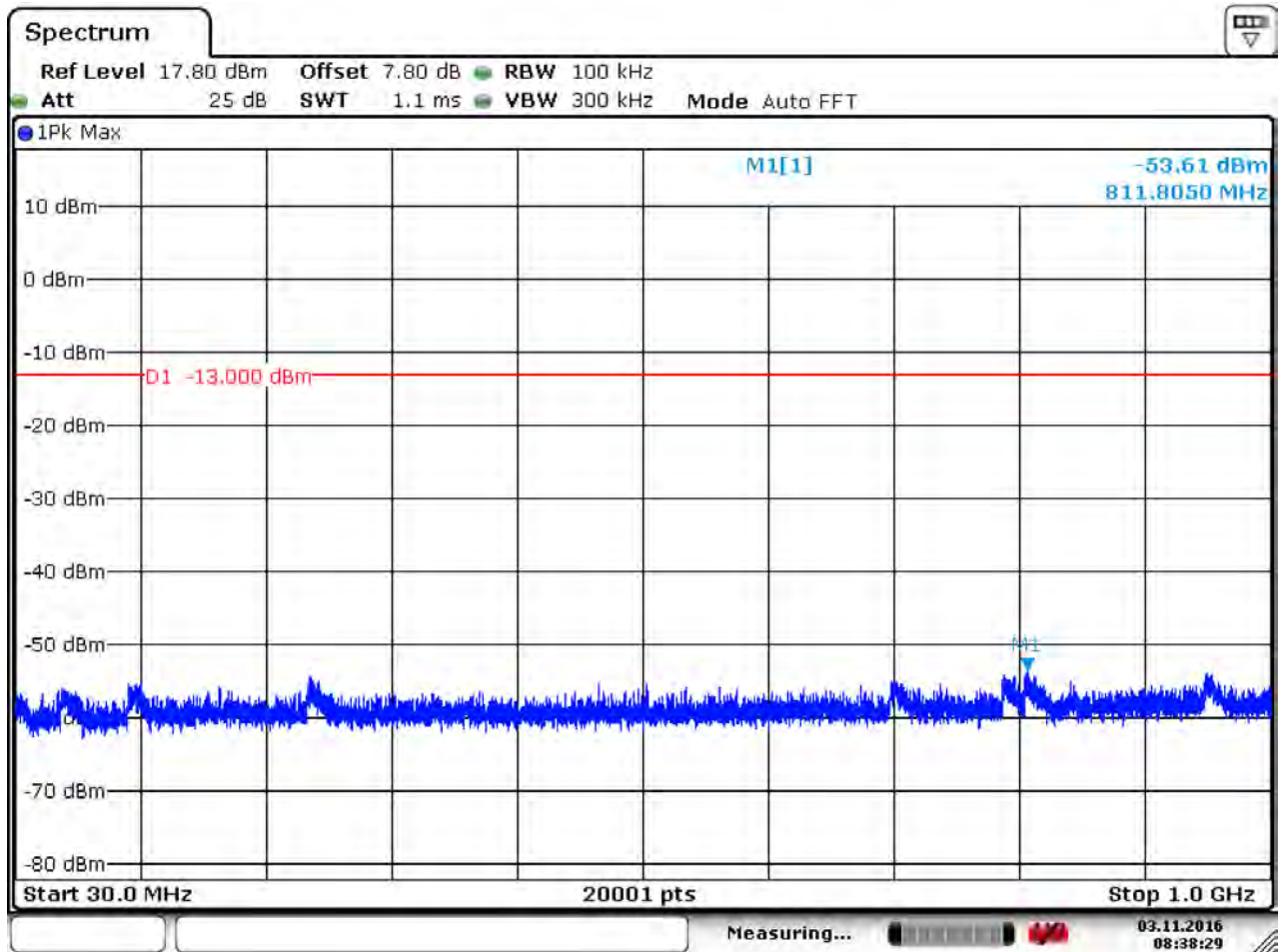
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Date: 3.NOV.2016 08:59:04



6.1.1.1.3 Test Channel = HCH



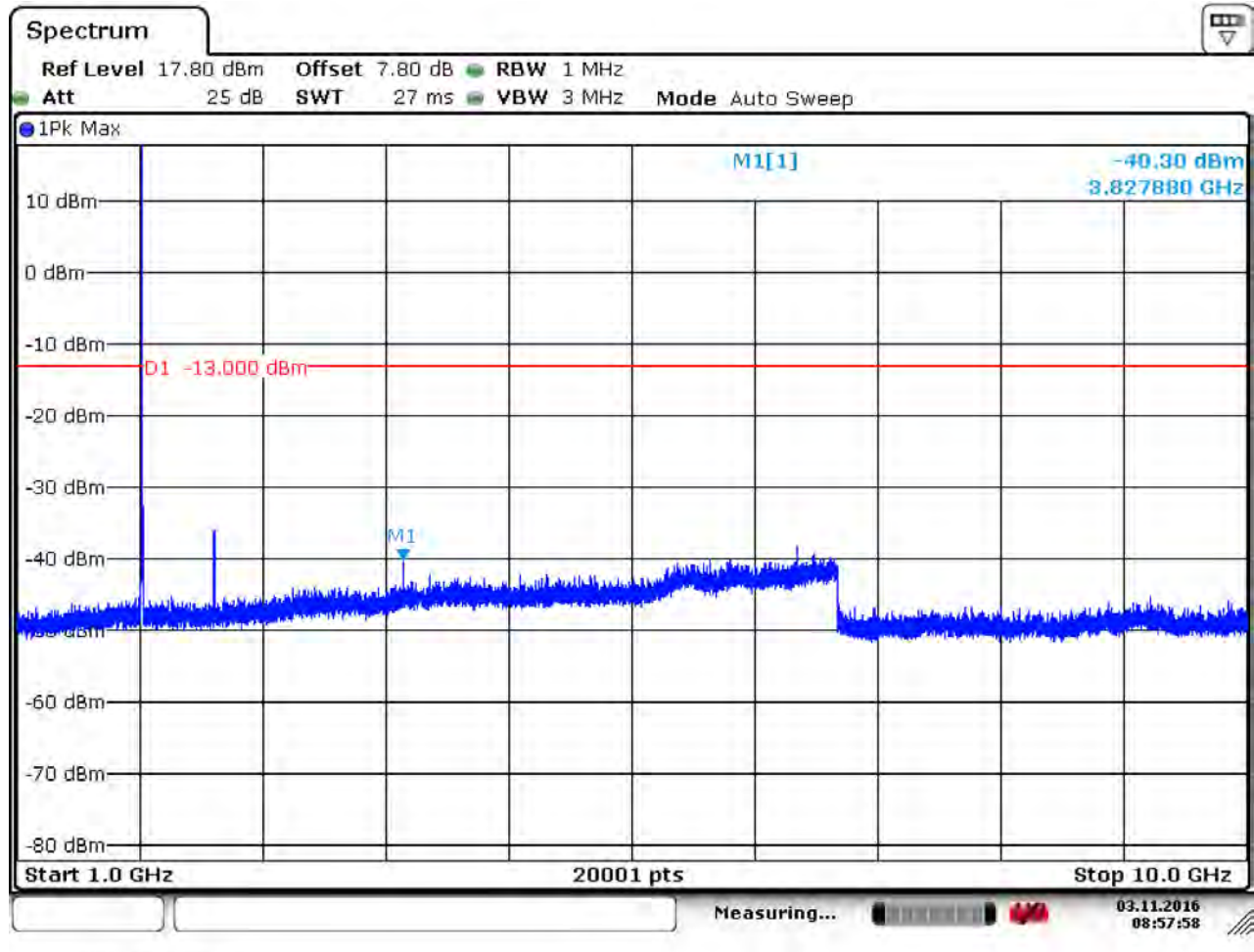
Date: 3.NOV.2016 08:38:29



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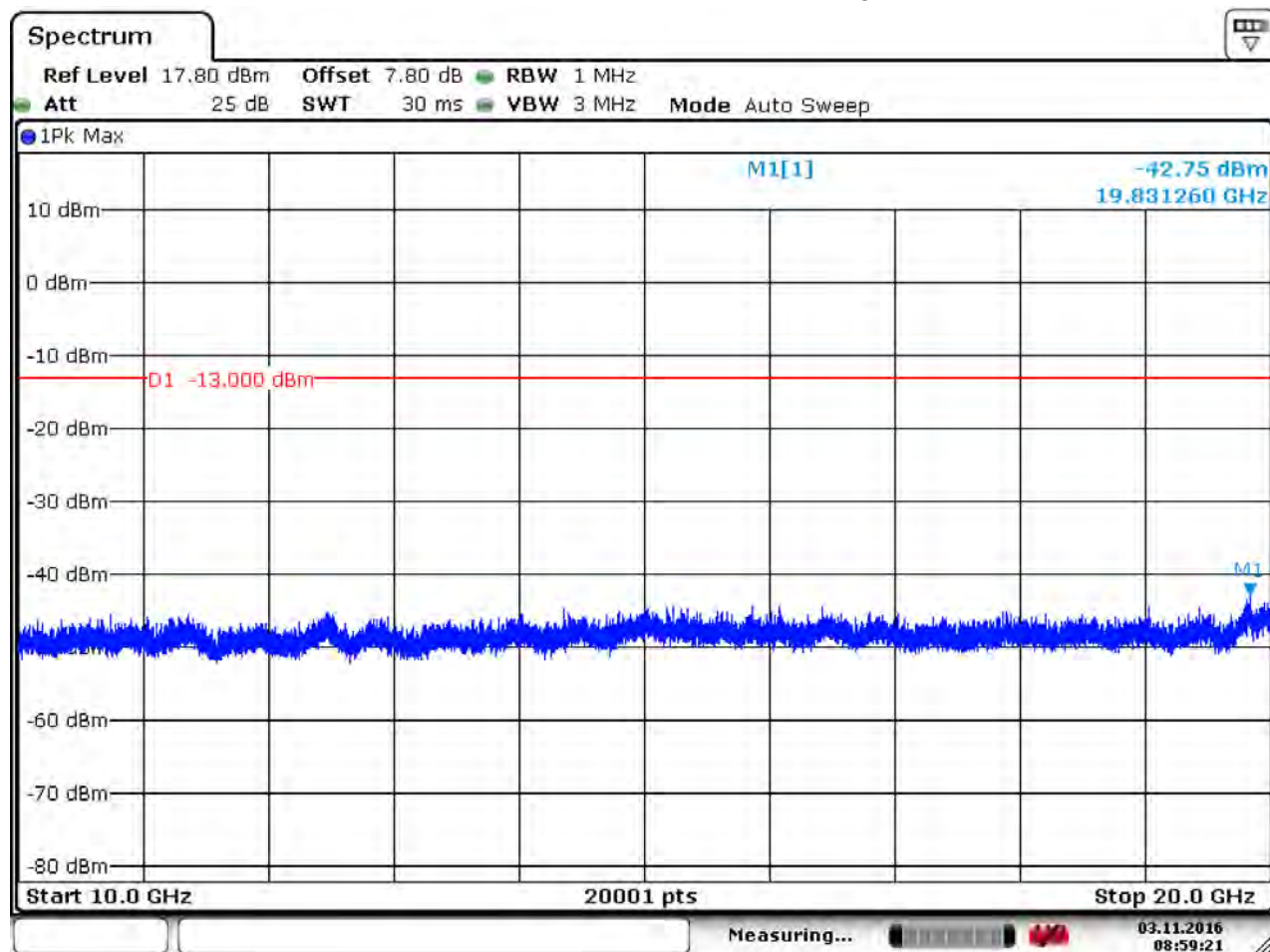
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Date: 3.NOV.2016 08:57:59

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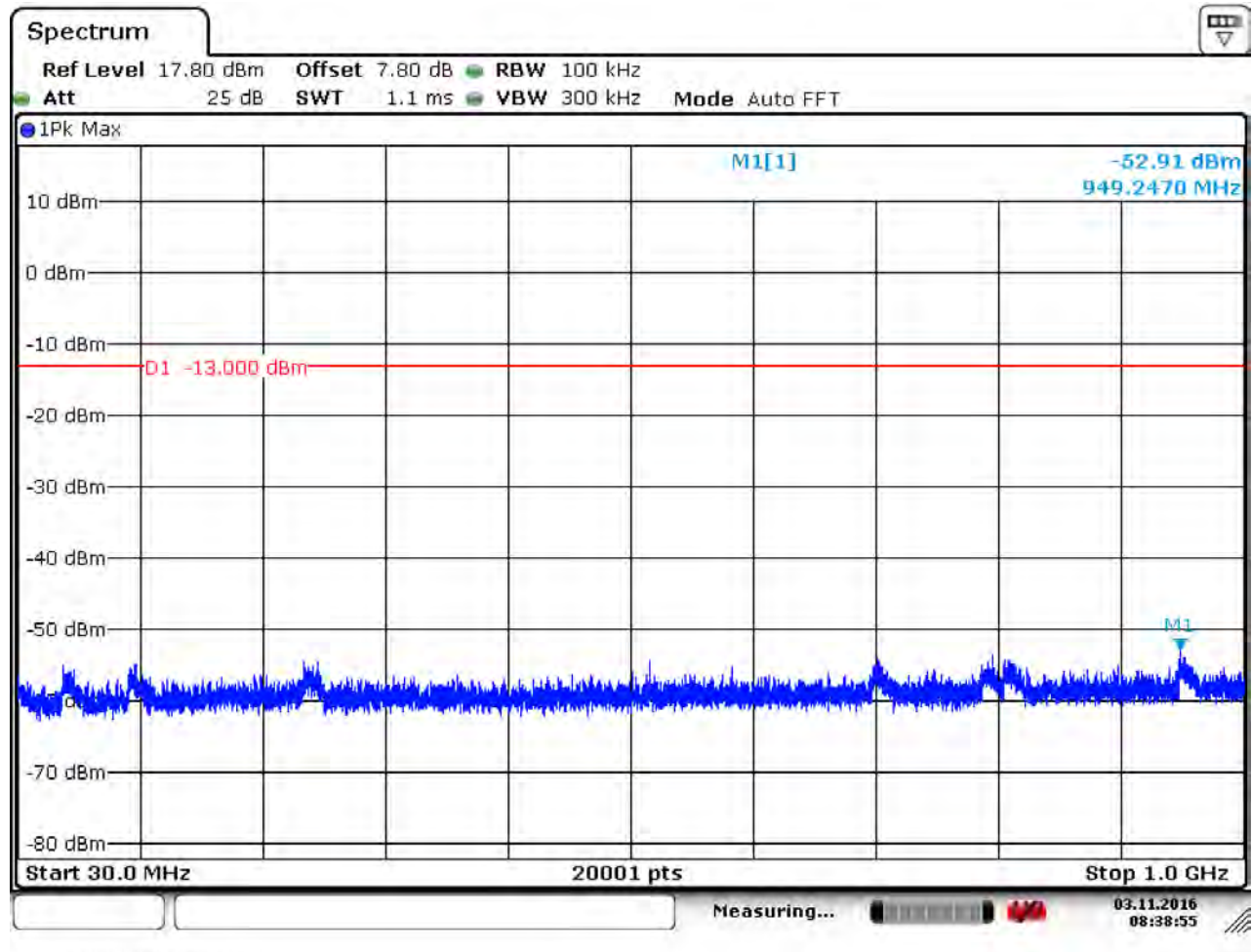


Date: 3.NOV.2016 08:59:21

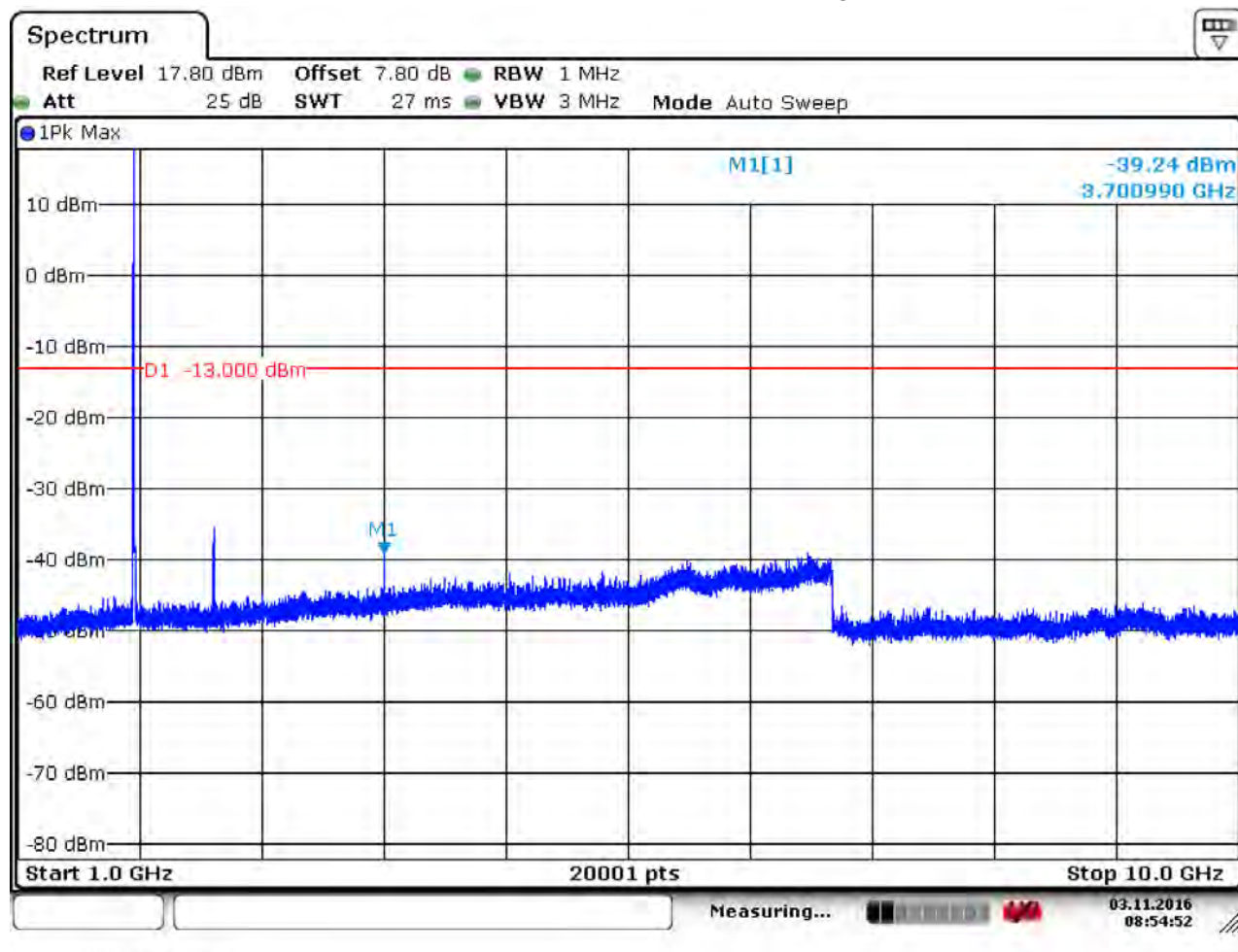


6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

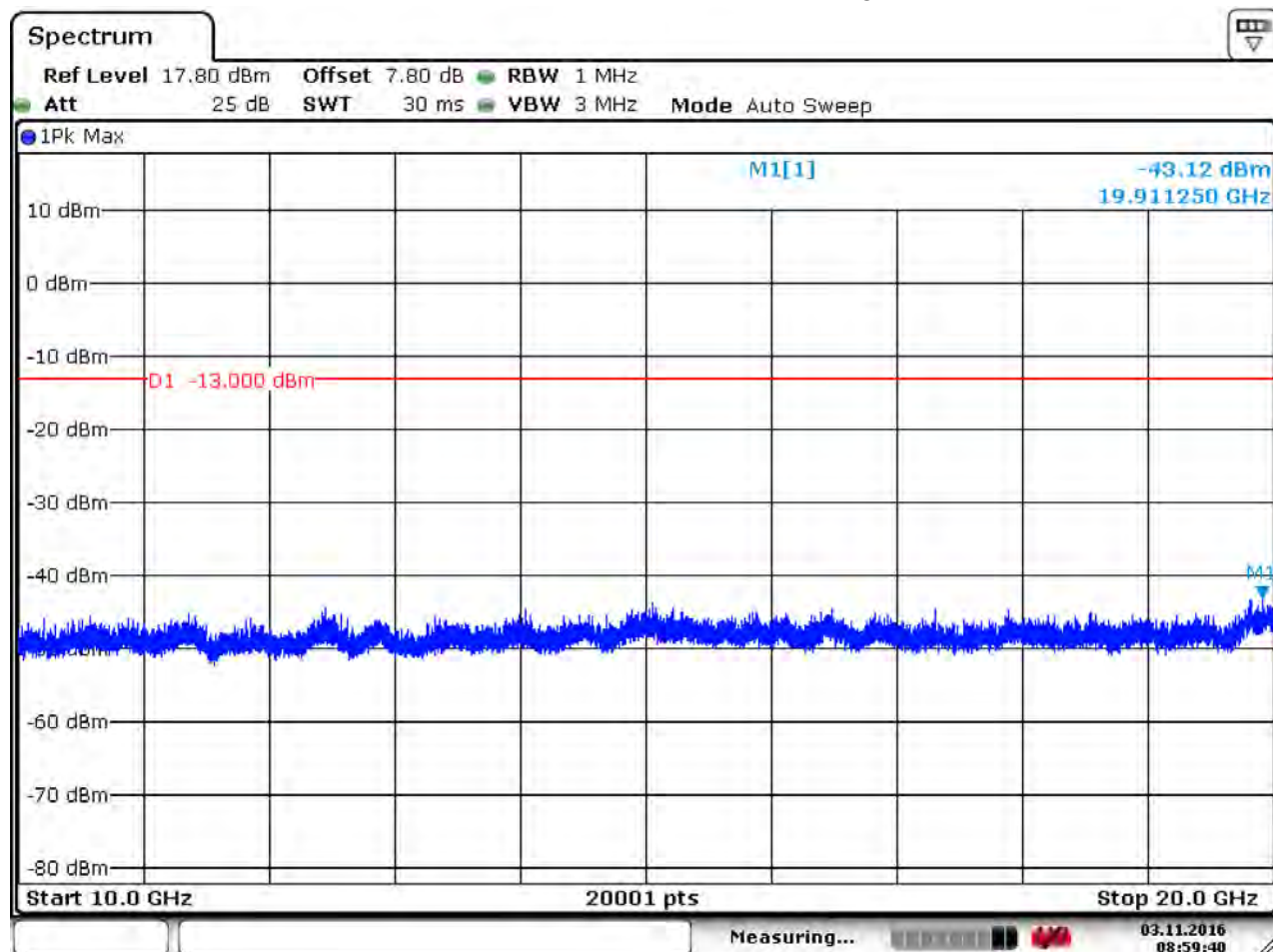
6.1.1.2.1 Test Channel = LCH



Date: 3.NOV.2016 08:38:55



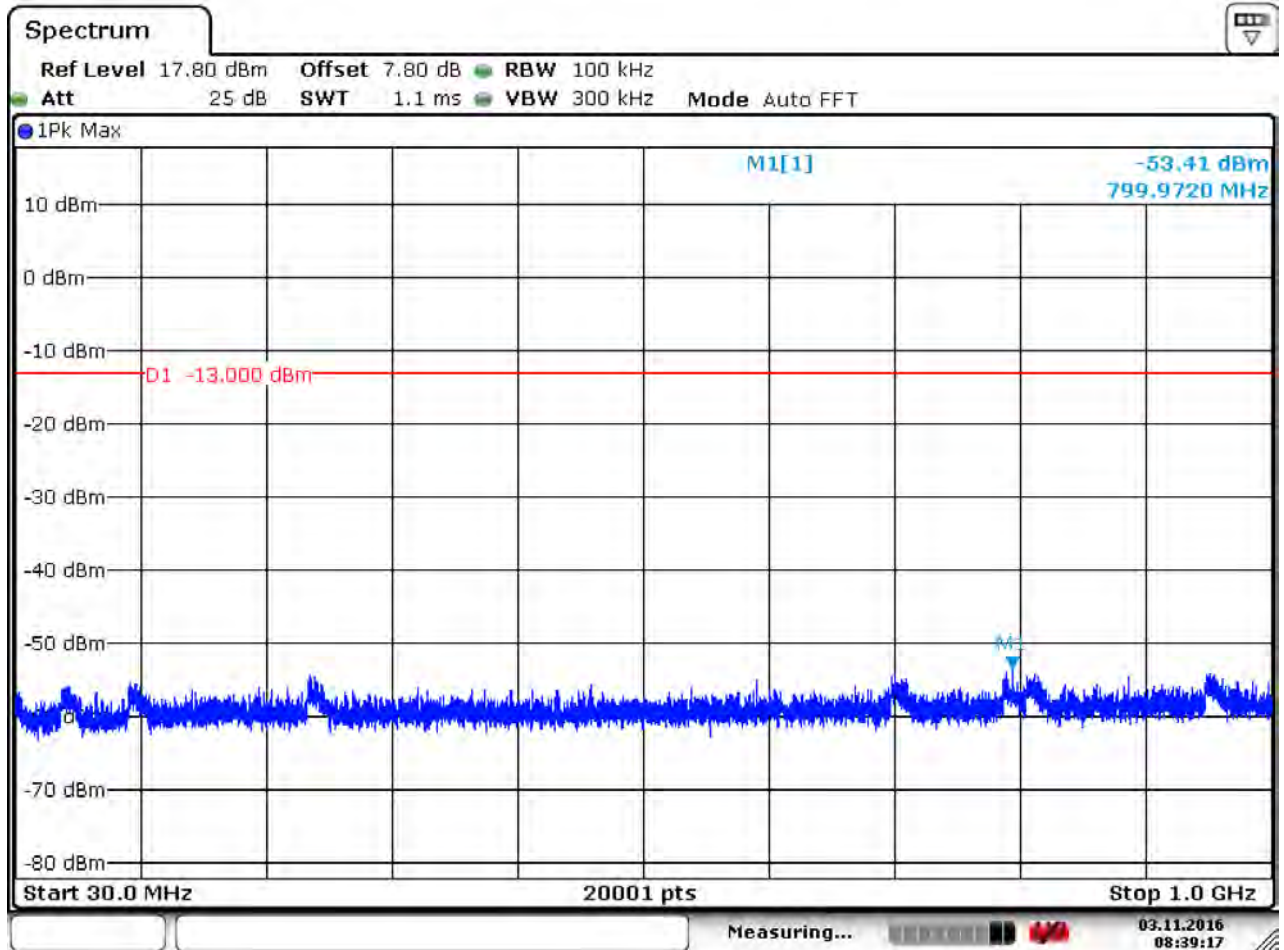
Date: 3.NOV.2016 08:54:53



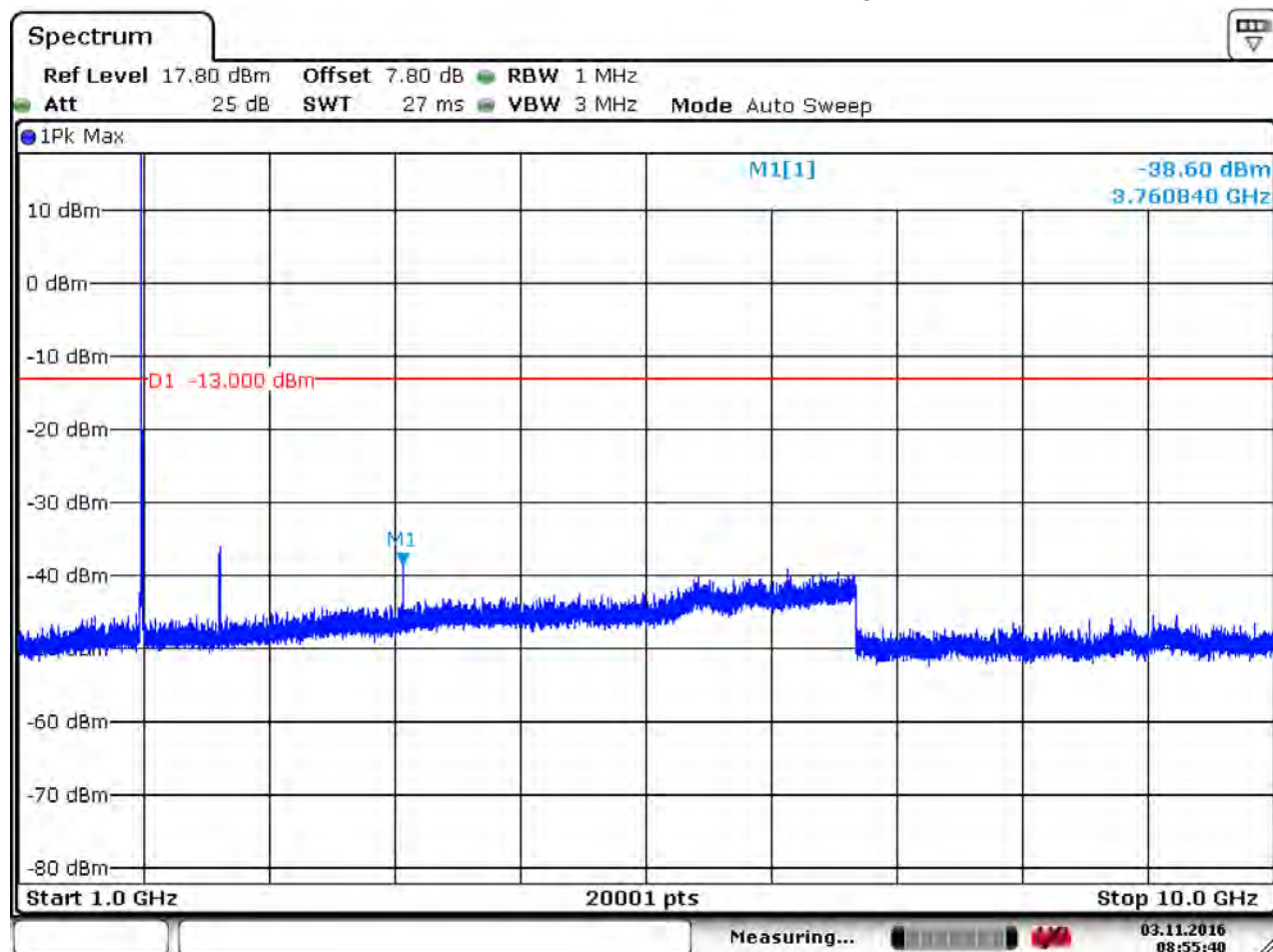
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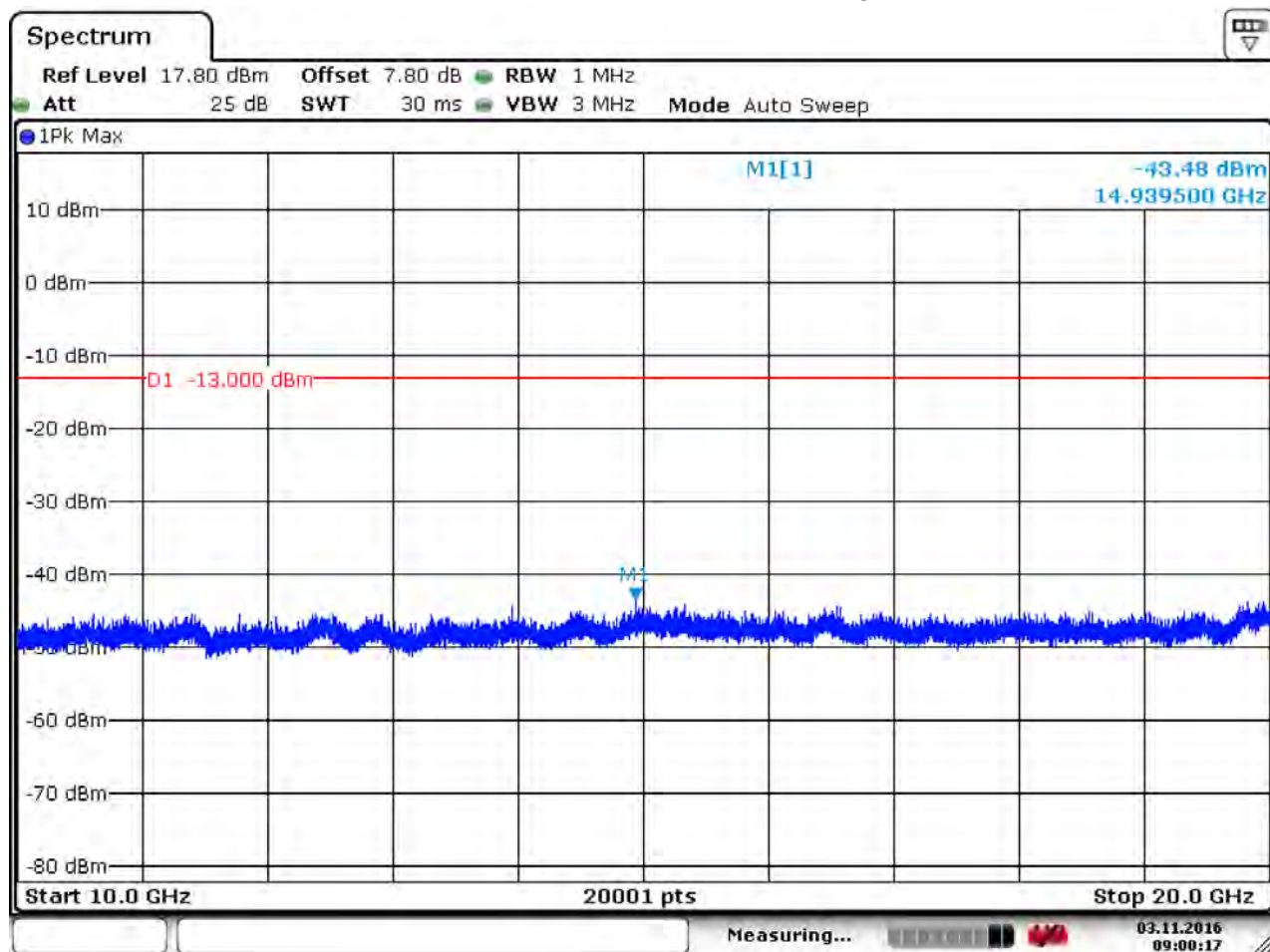
6.1.1.2.2 Test Channel = MCH



Date: 3 NOV 2016 08:39:18



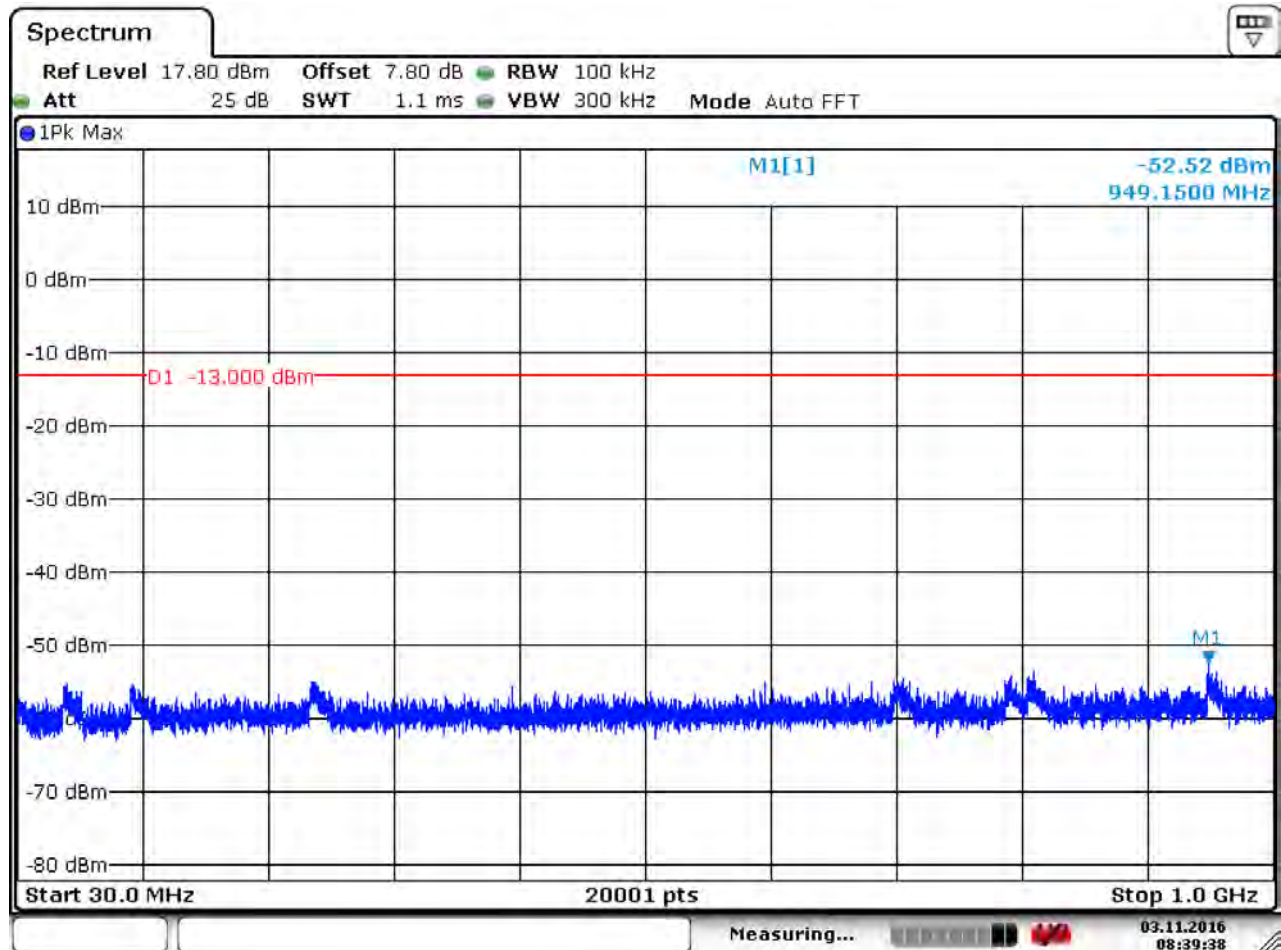
Date: 3.NOV.2016 08:55:40



Date: 3.NOV.2016 09:00:18



6.1.1.2.3 Test Channel = HCH



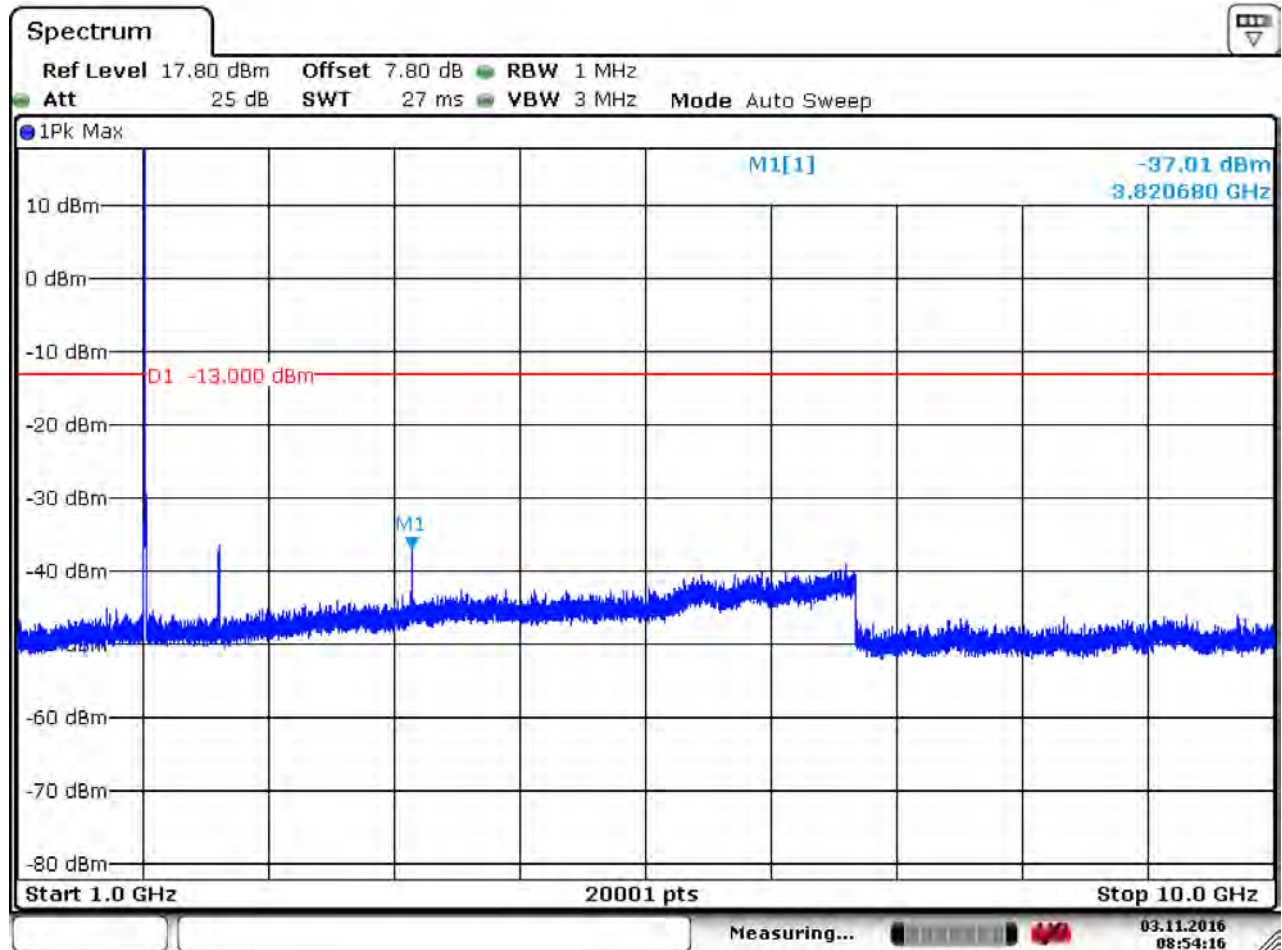
Date: 3.NOV.2016 08:39:39



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Date: 3.NOV.2016 08:54:17

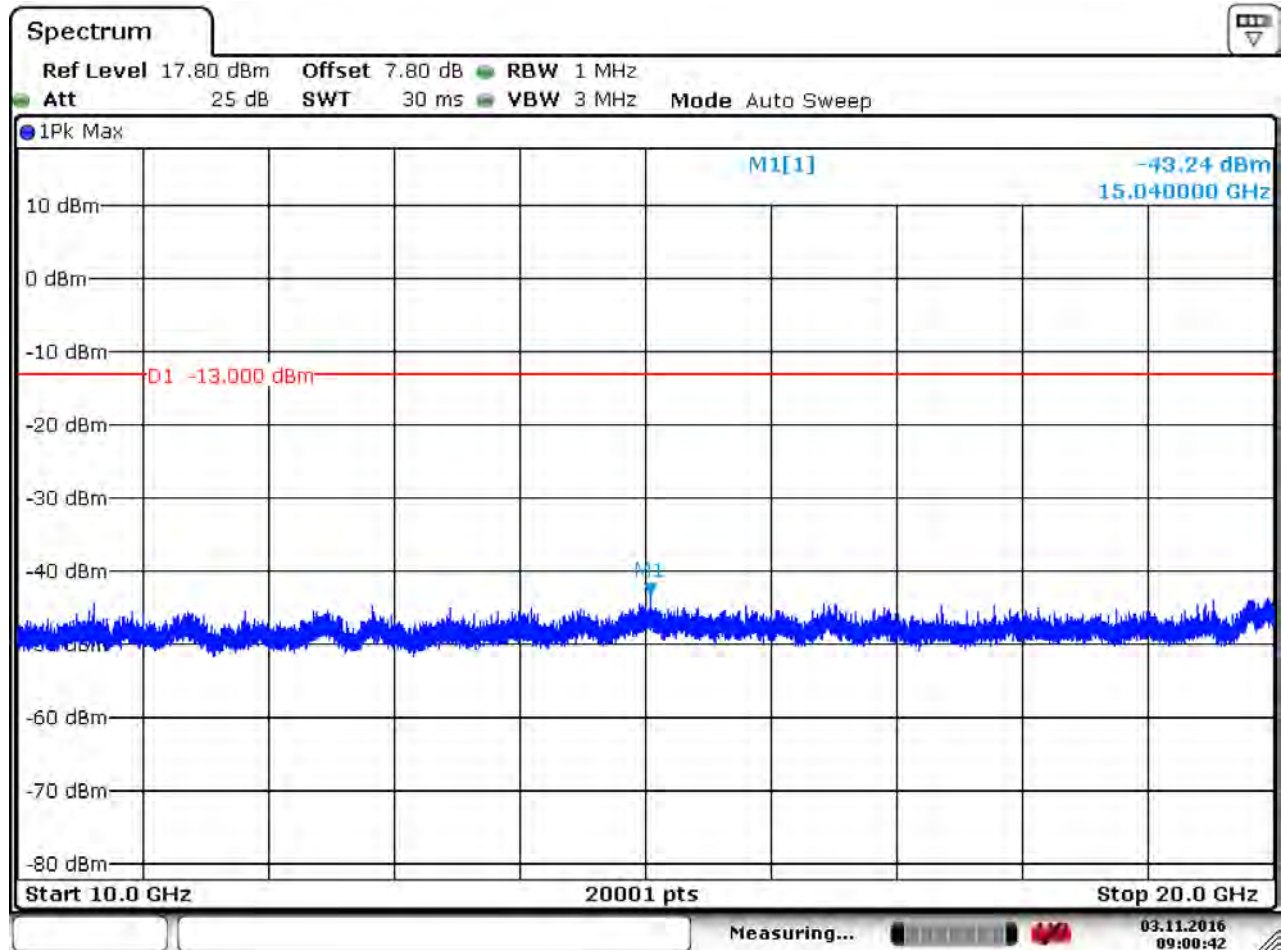
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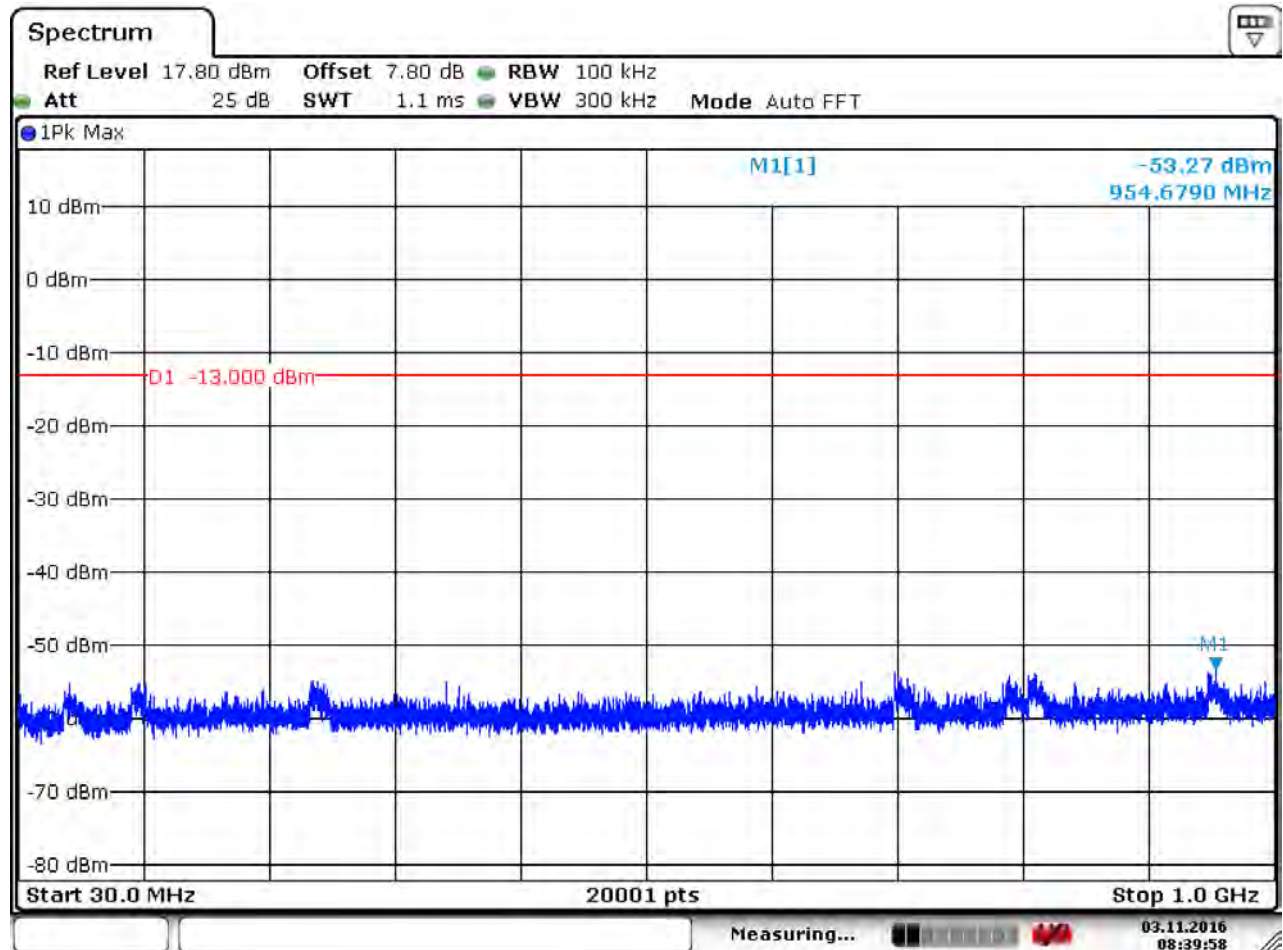
Date: 3.NOV.2016 09:00:42

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

6.1.1.3.1 Test Channel = LCH



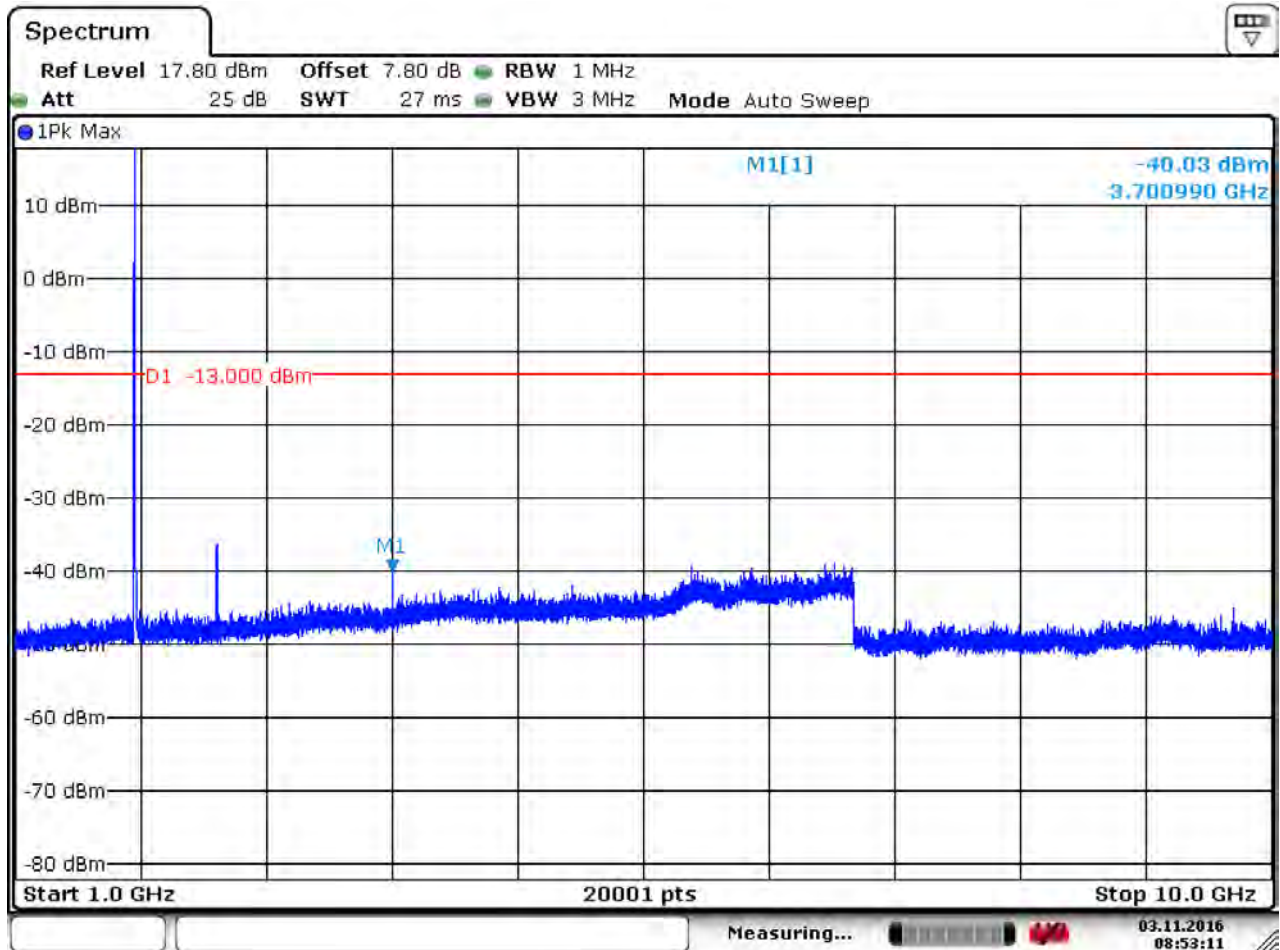
Date: 3.NOV.2016 08:39:58



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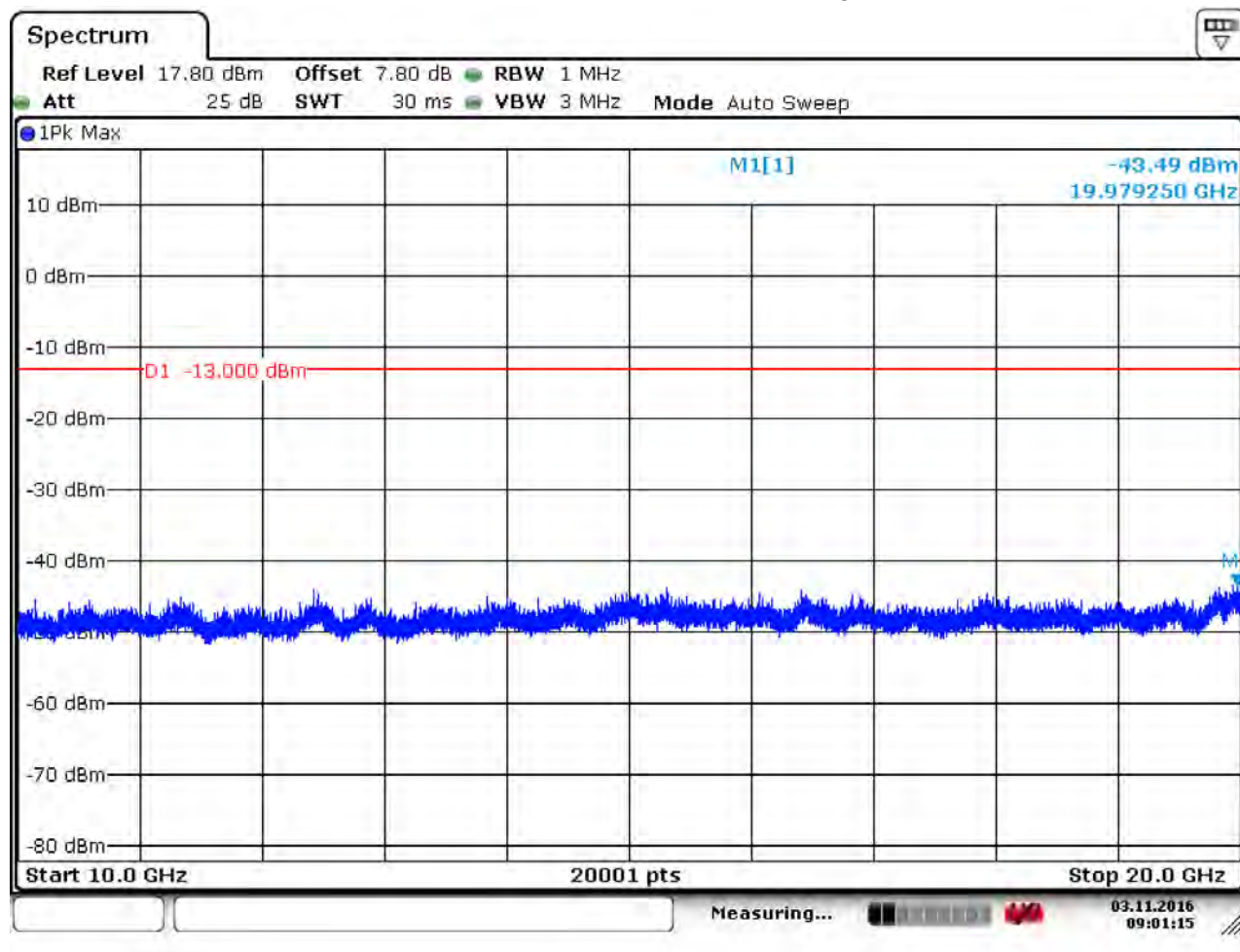
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Date: 3.NOV.2016 08:53:12

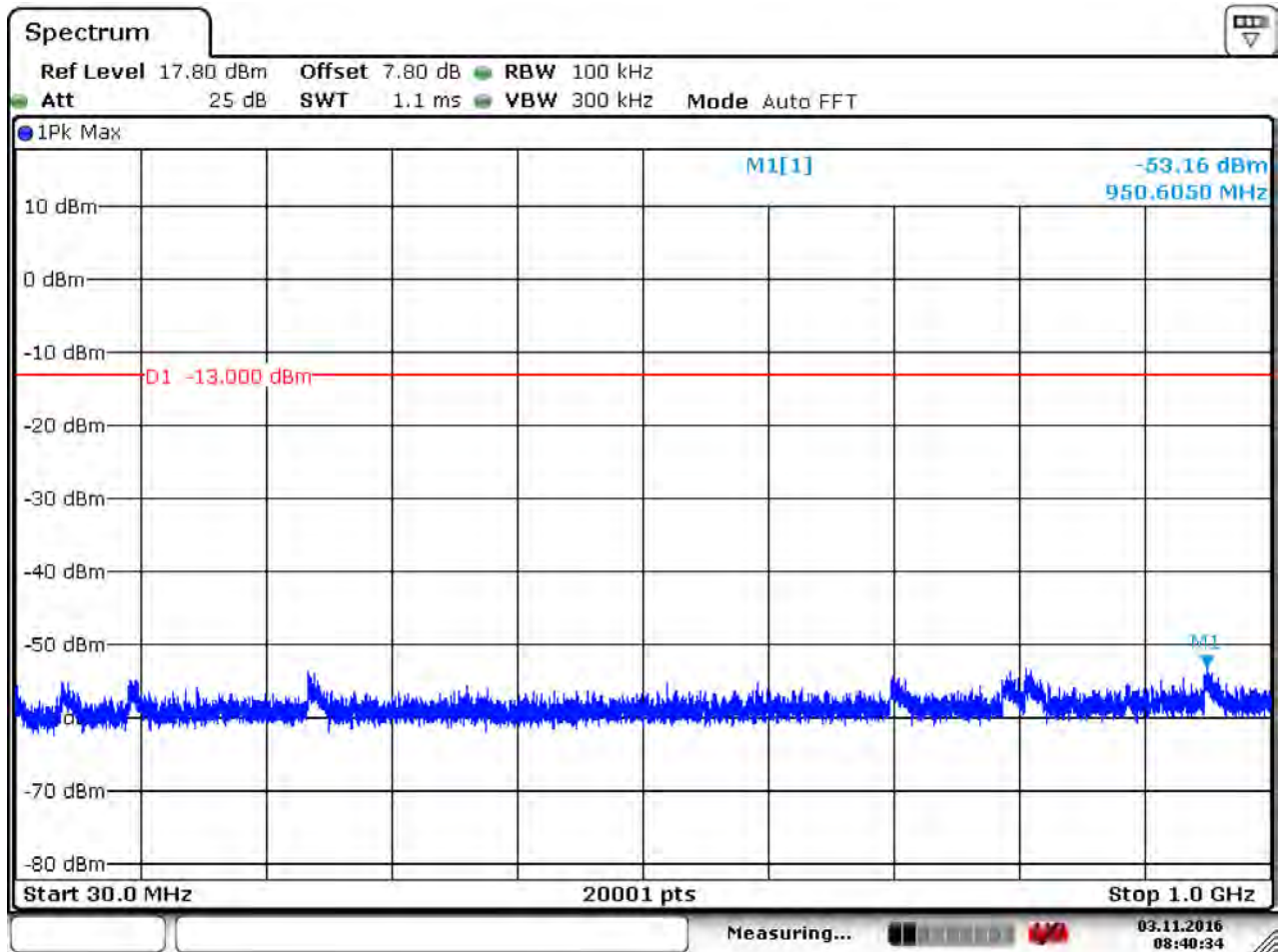
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6.1.1.3.2 Test Channel = MCH



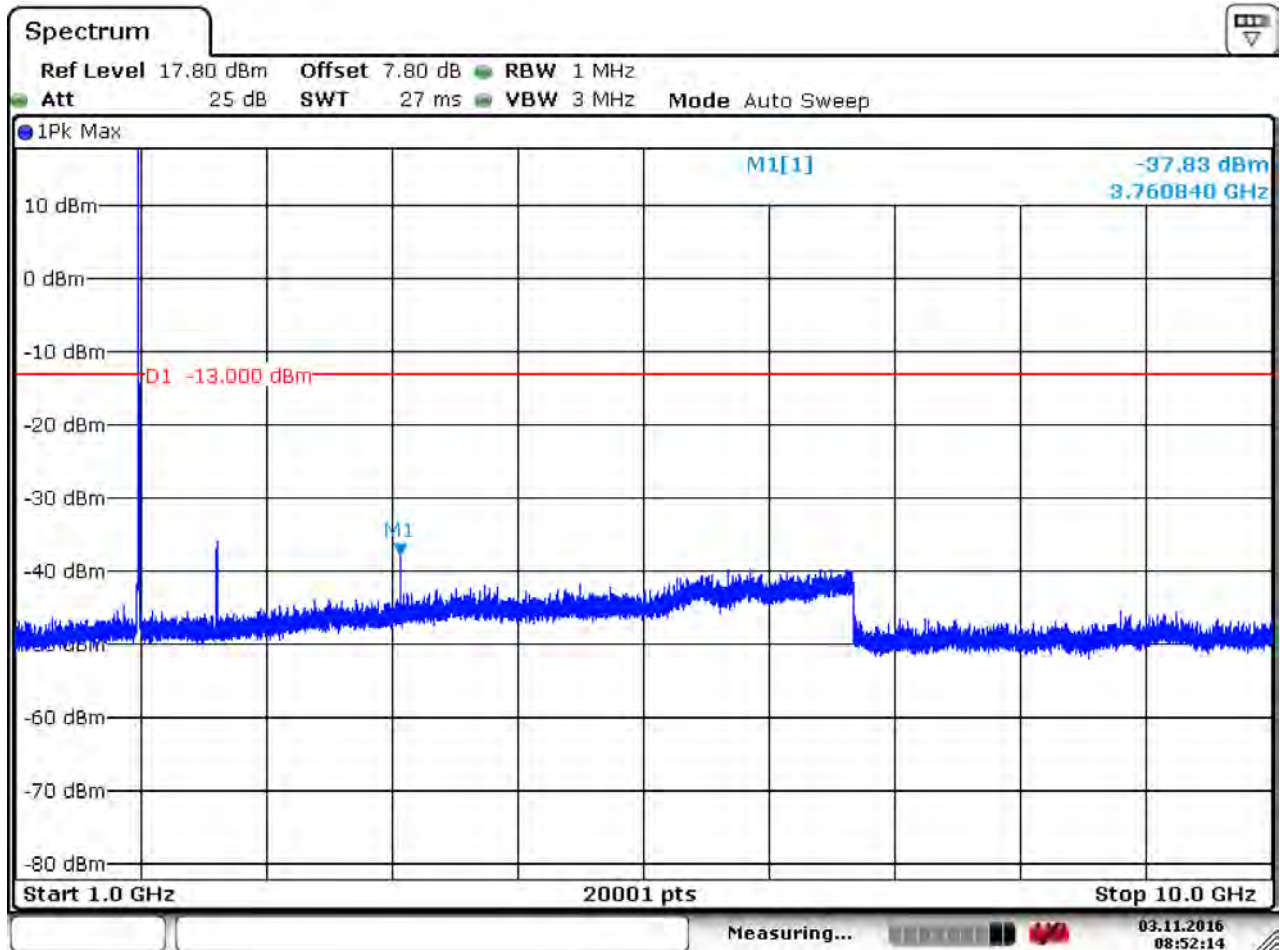
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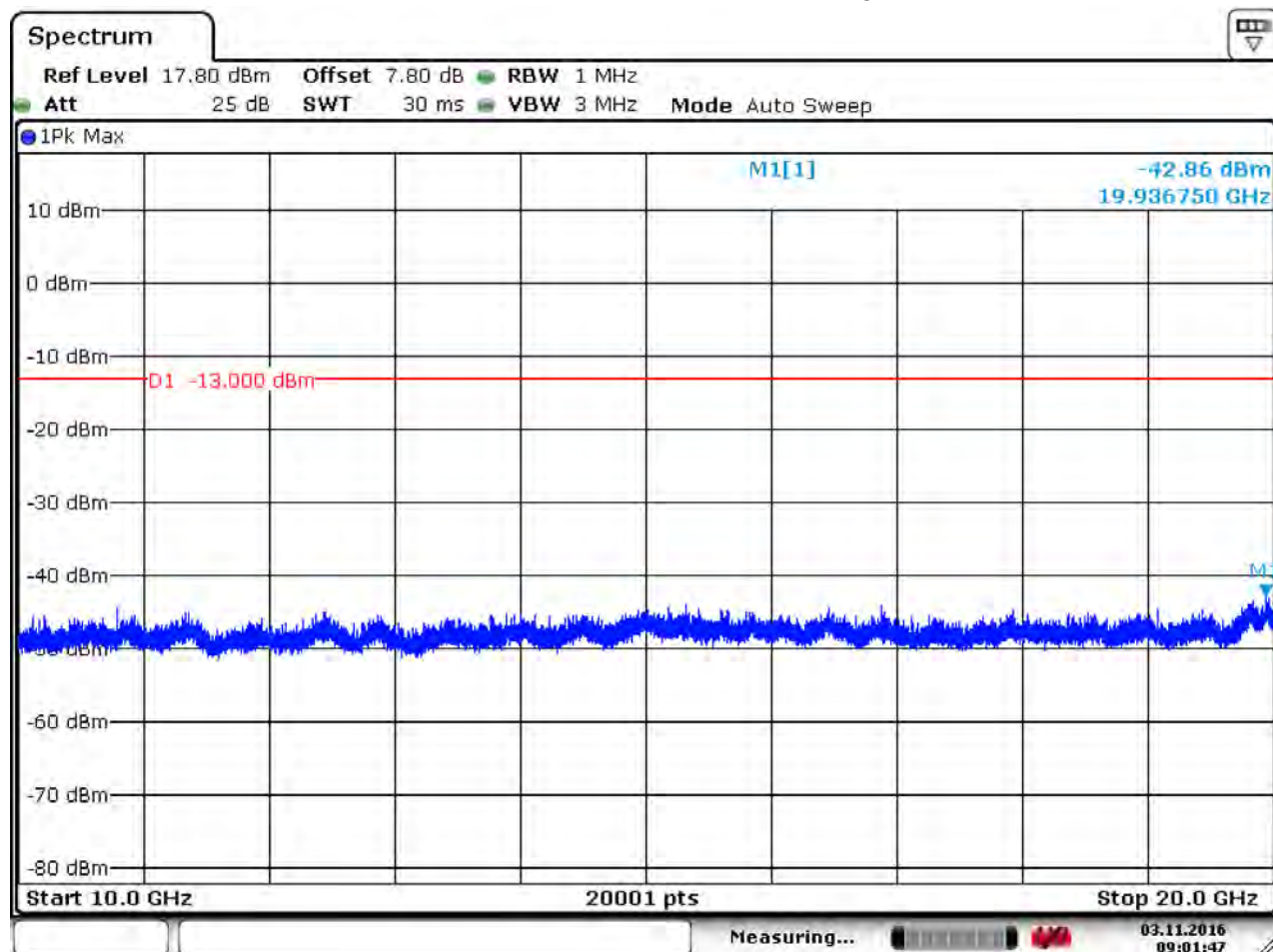
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Date: 3.NOV.2016 08:52:15

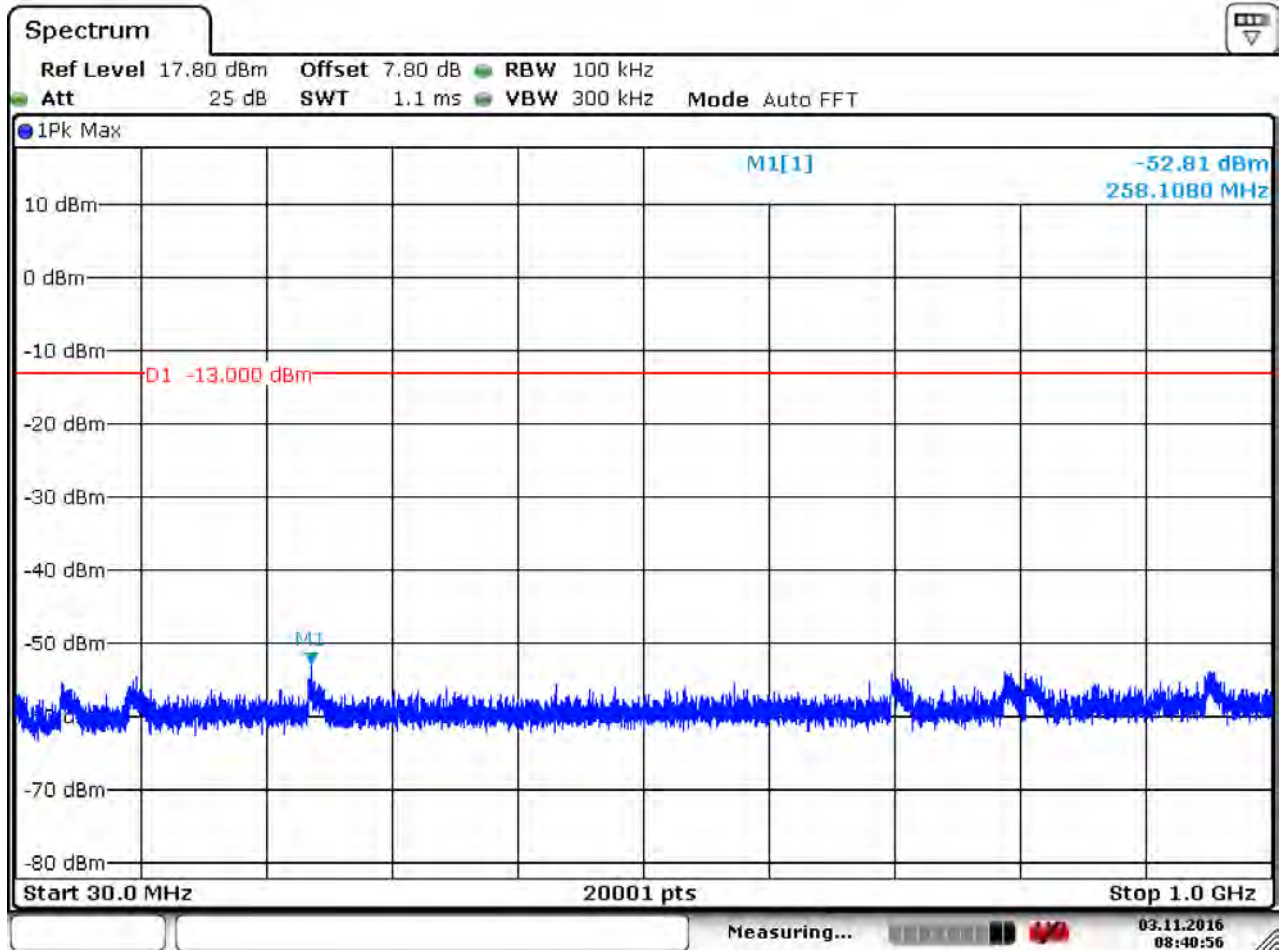
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Date: 3.NOV.2016 09:01:47



6.1.1.3.3 Test Channel = HCH



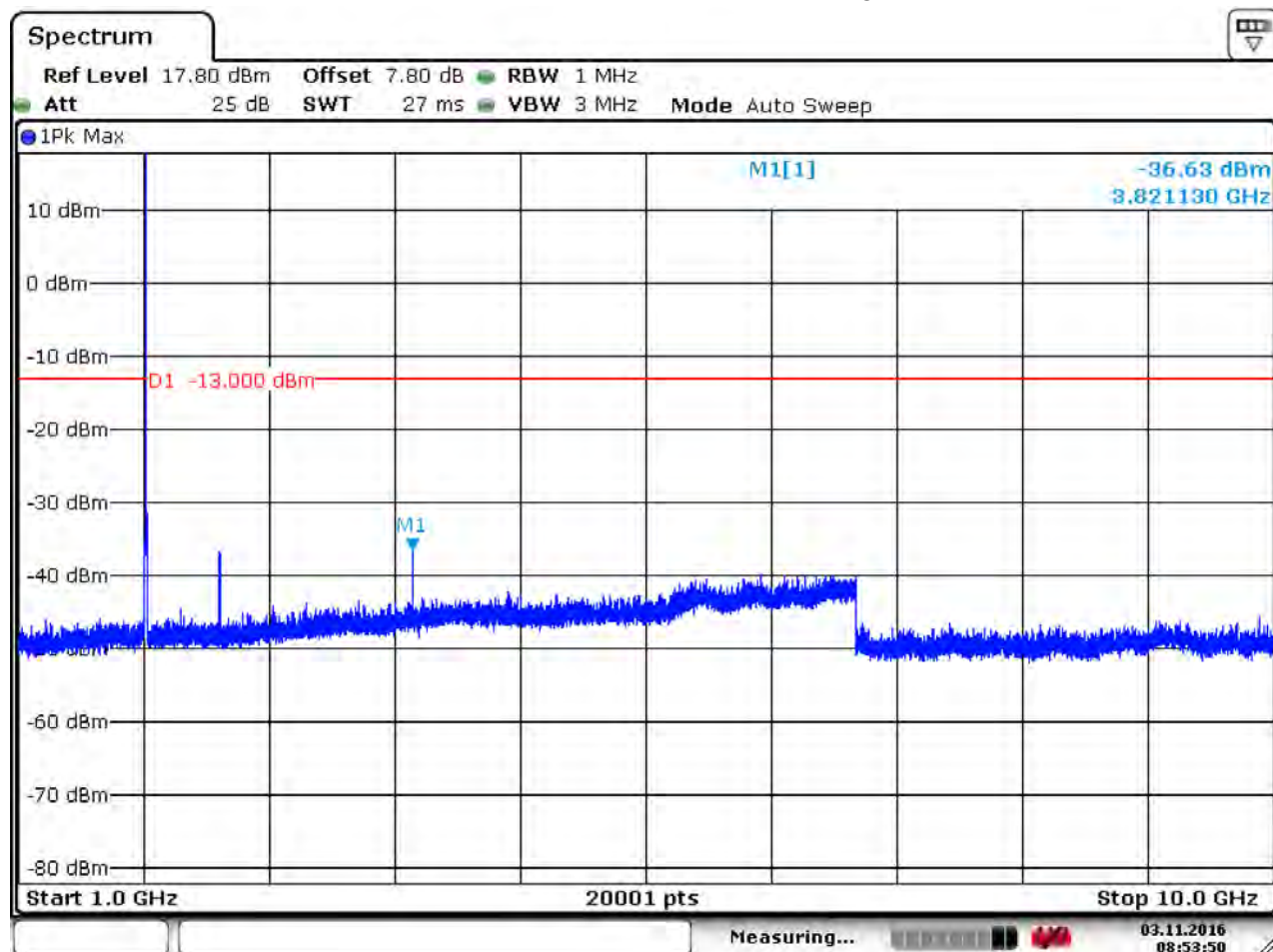
Date: 3 NOV. 2016 08:40:57



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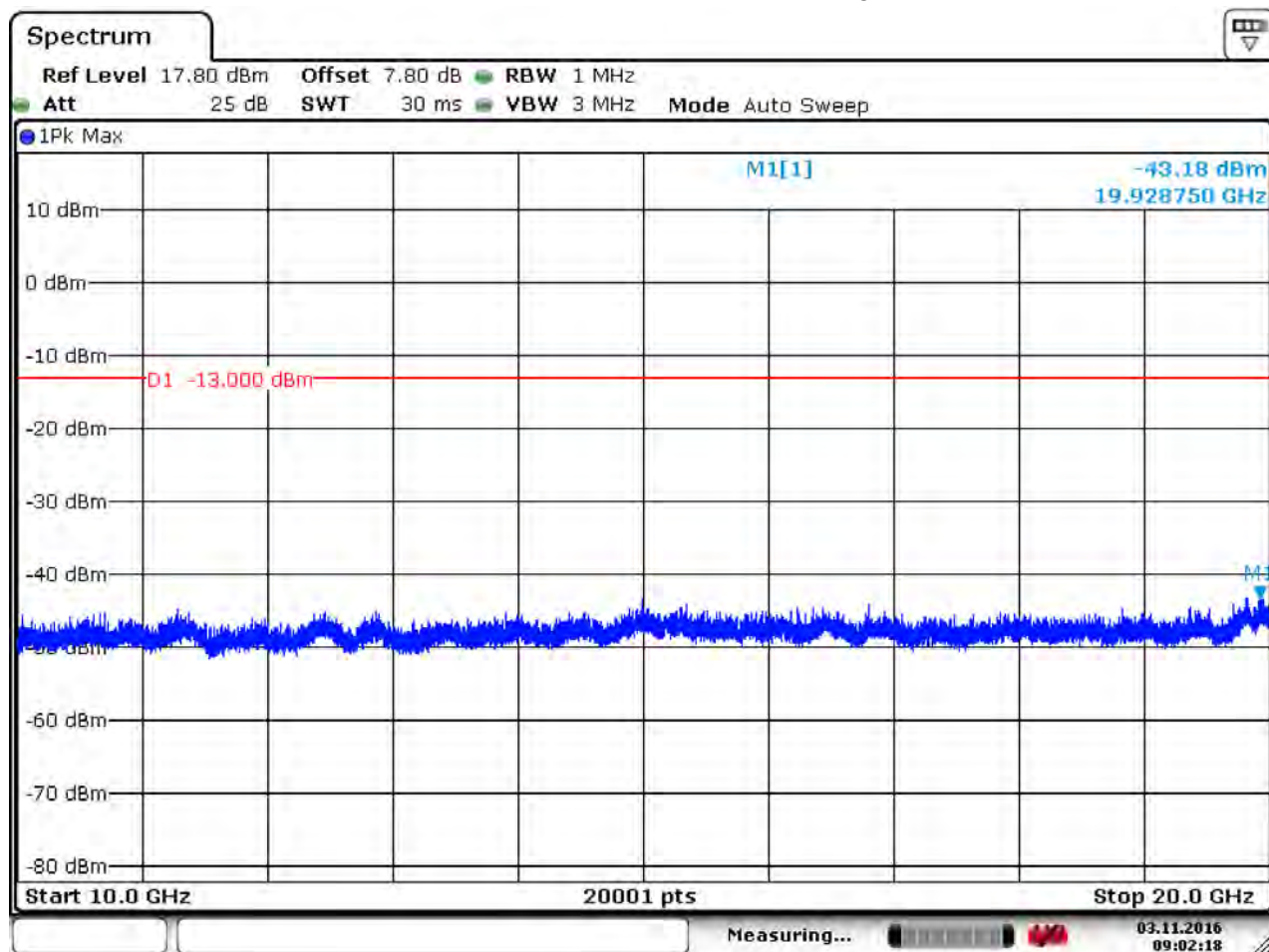
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Date: 3.NOV.2016 08:53:51

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Date: 3.NOV.2016 09:02:18



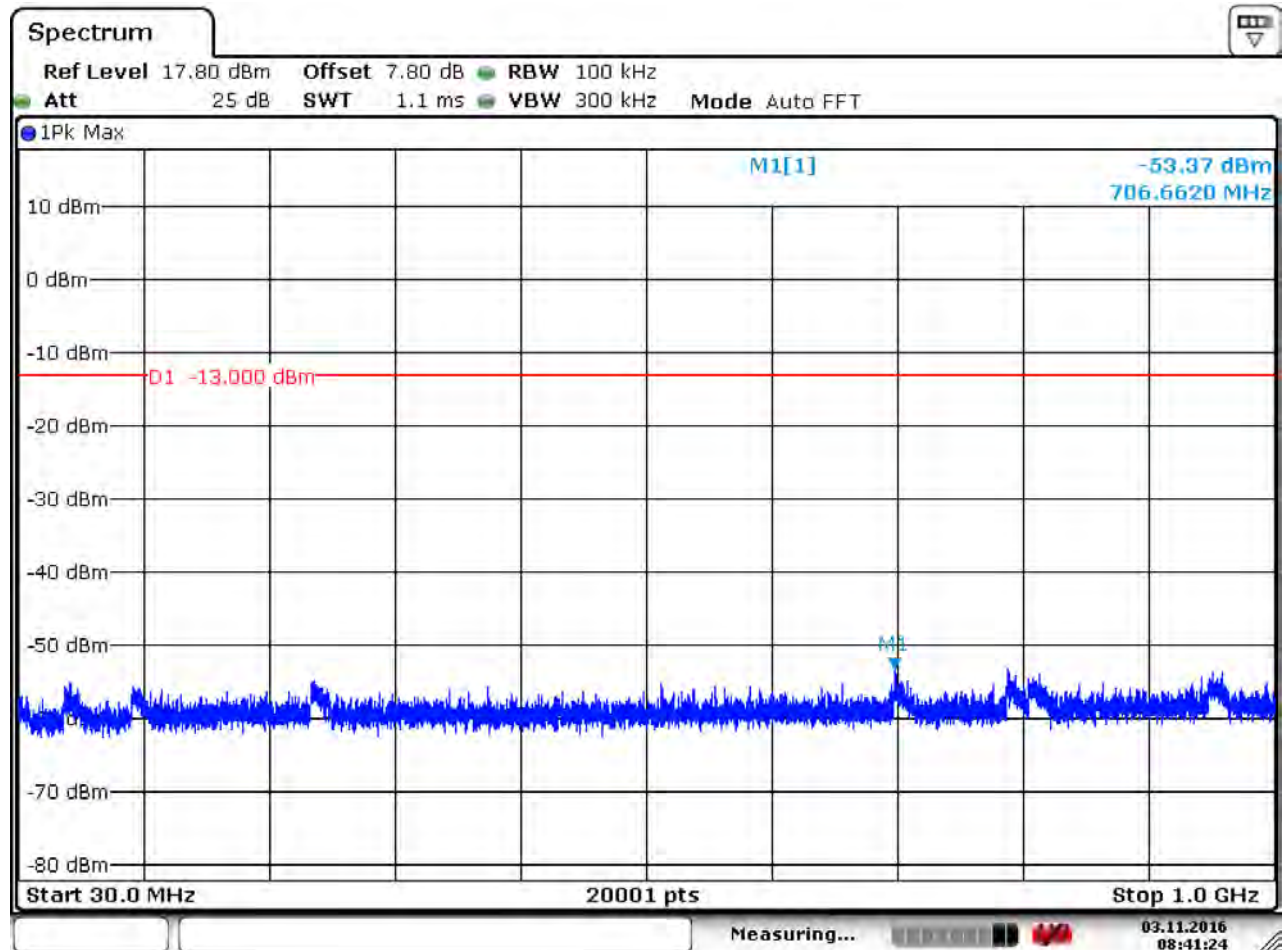
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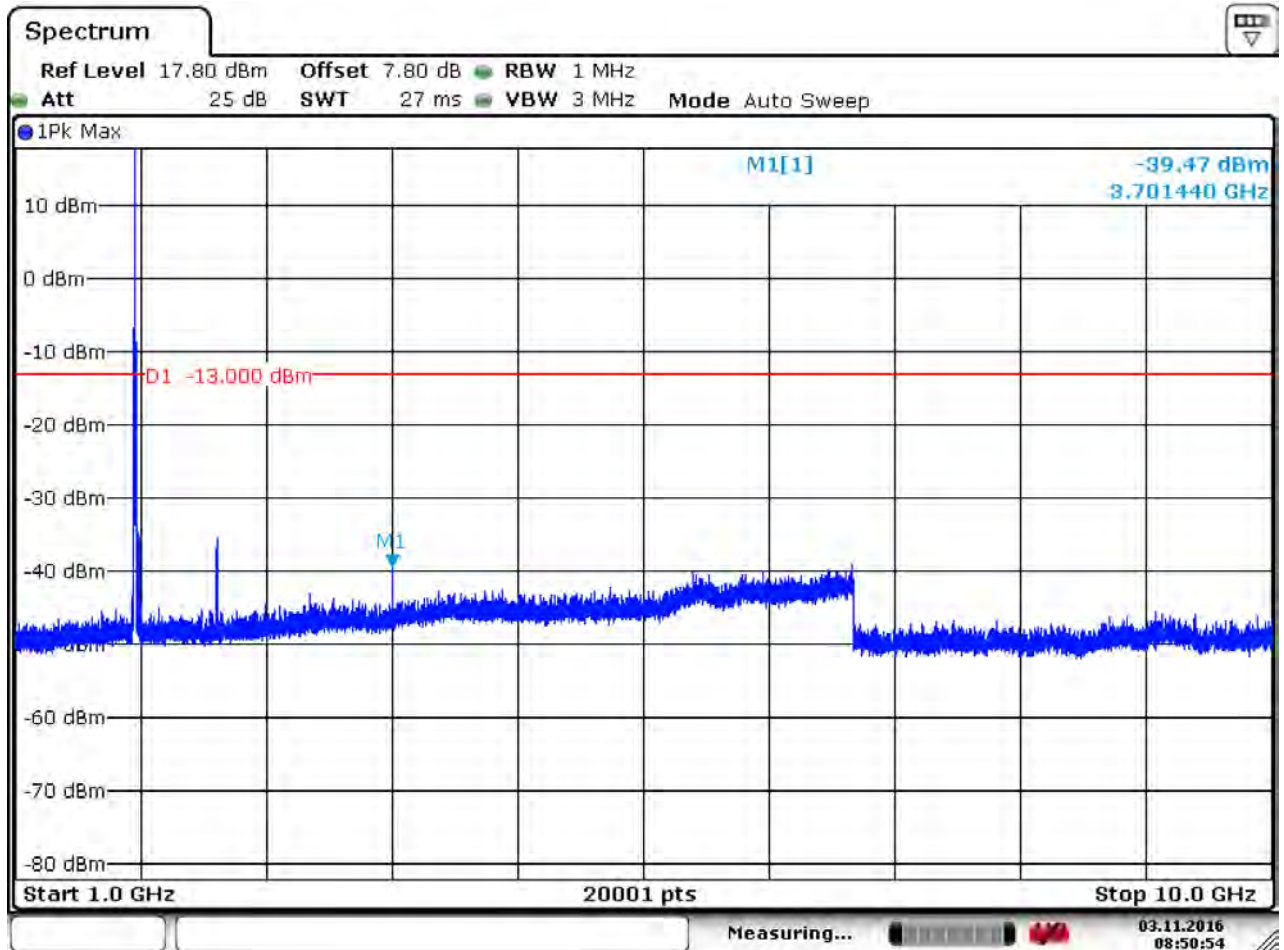
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH



Date: 3.NOV.2016 08:41:24

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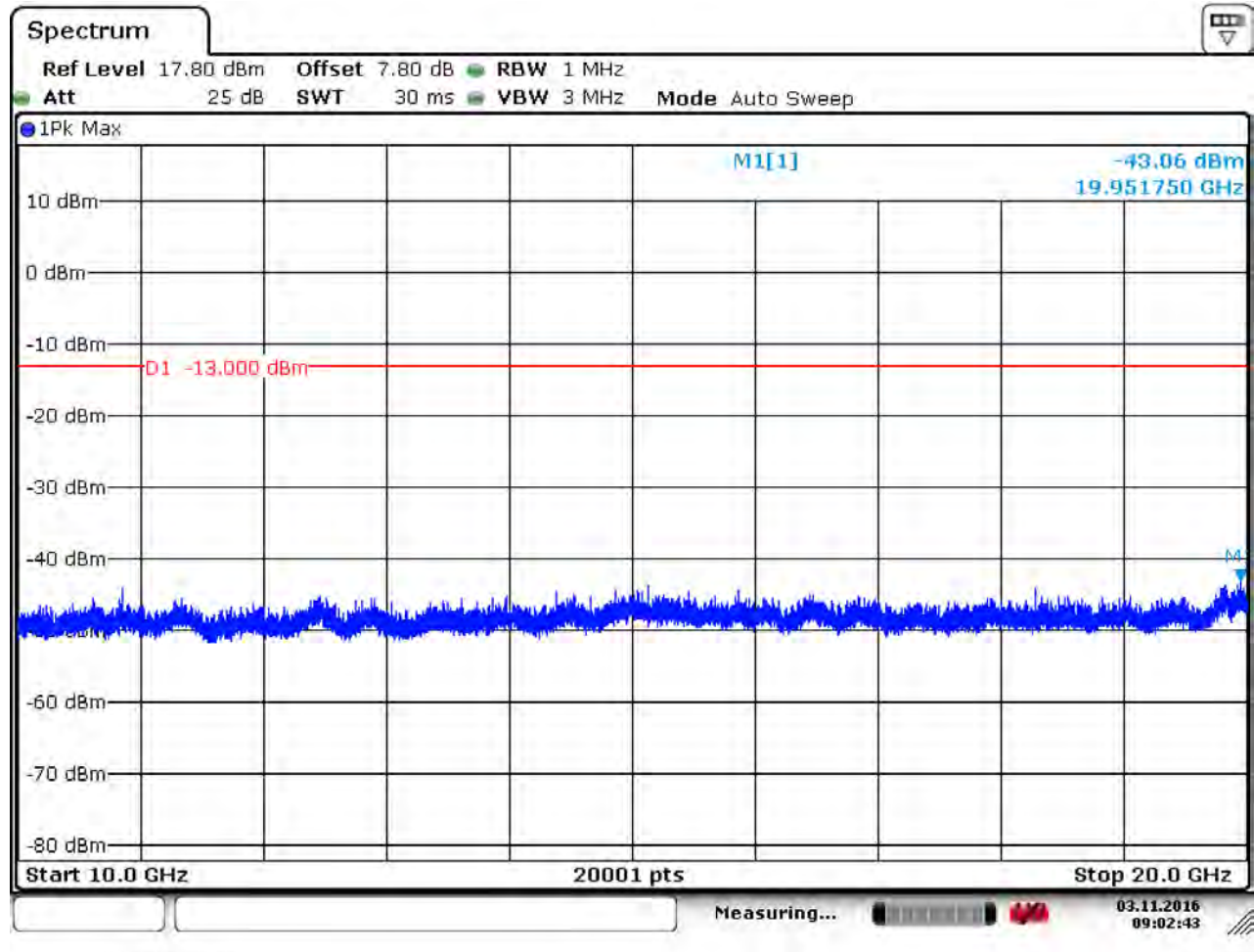
Date: 3.NOV.2016 08:50:53



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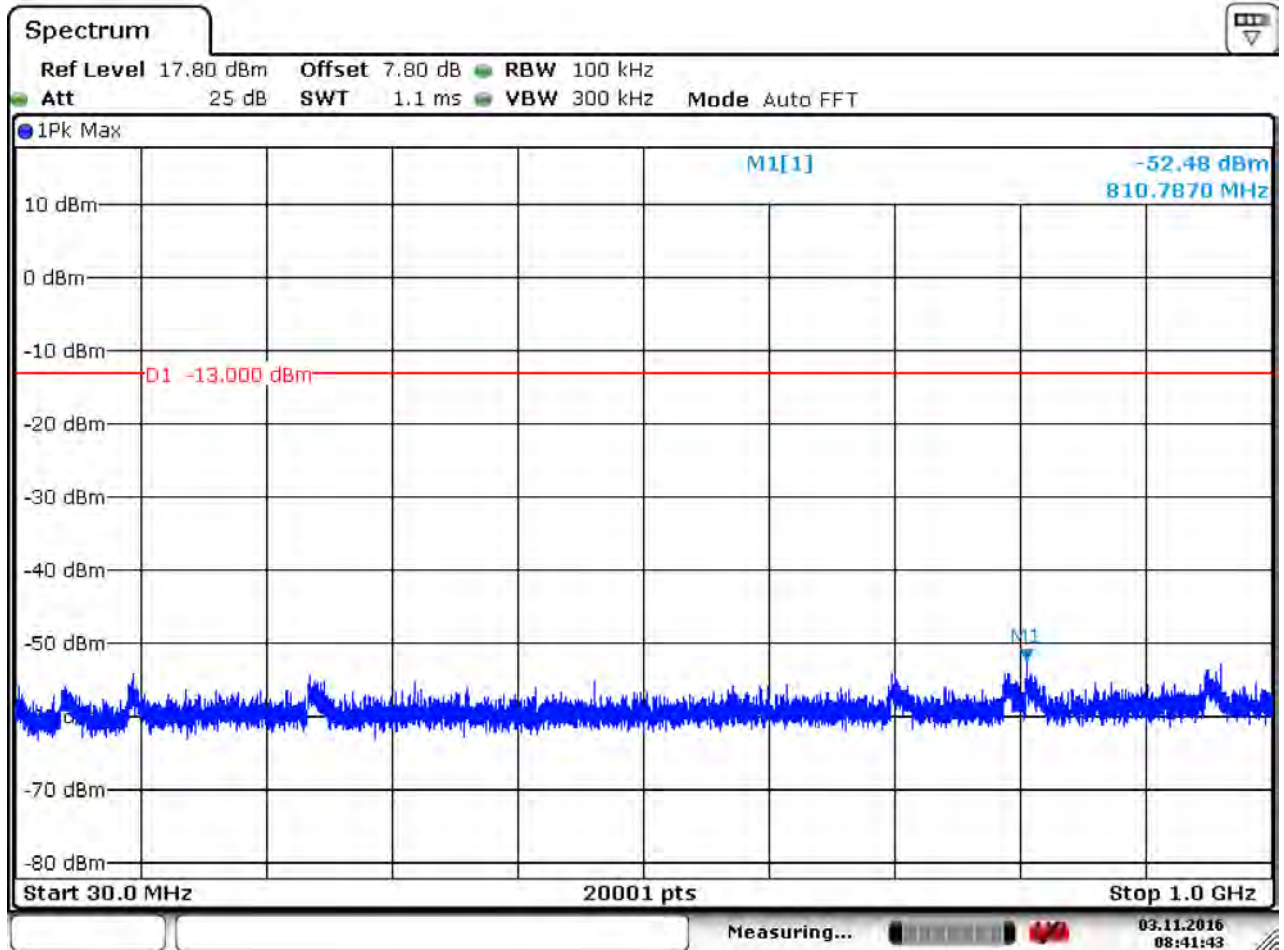


Date: 3.NOV.2016 09:02:44

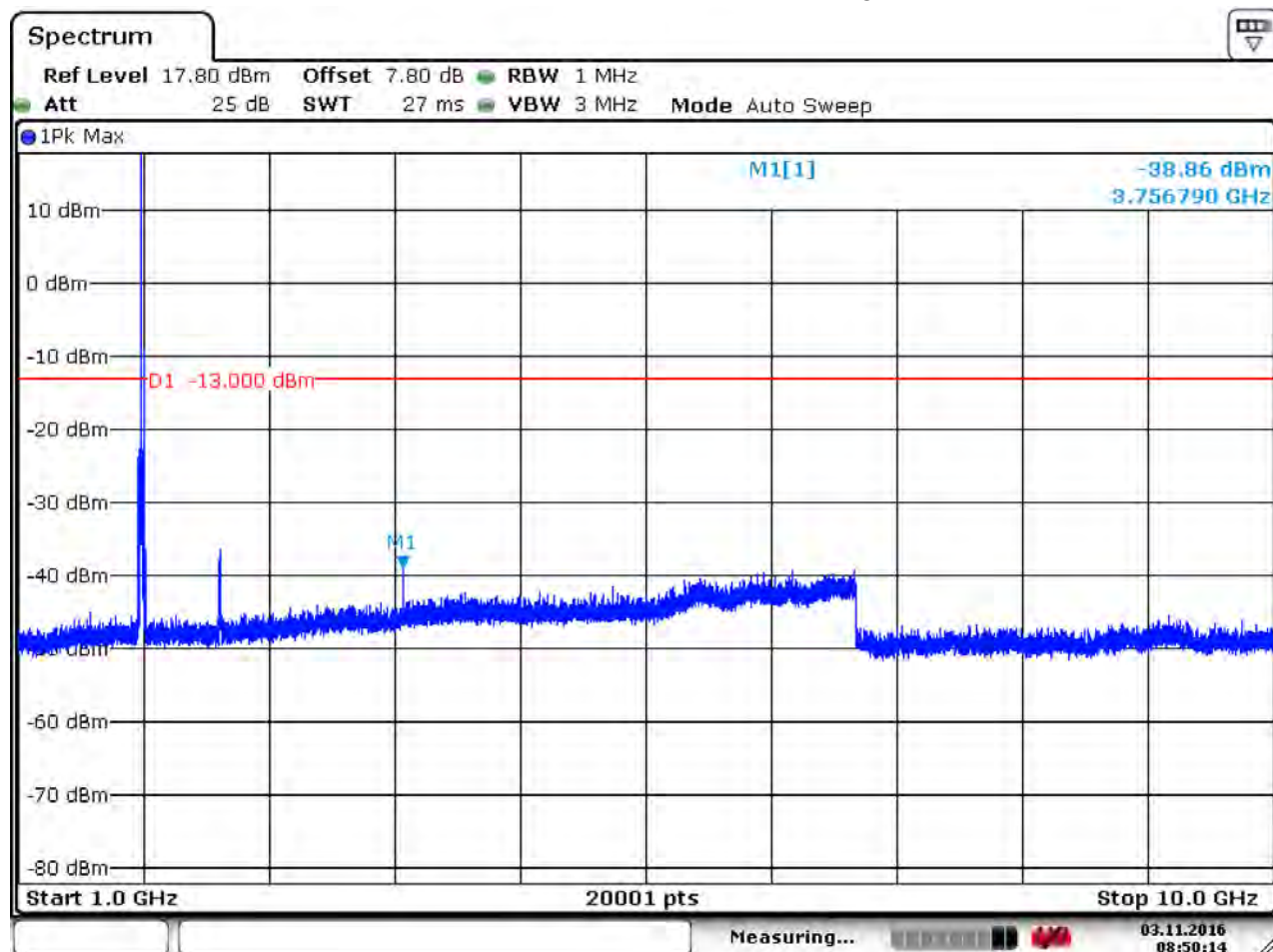
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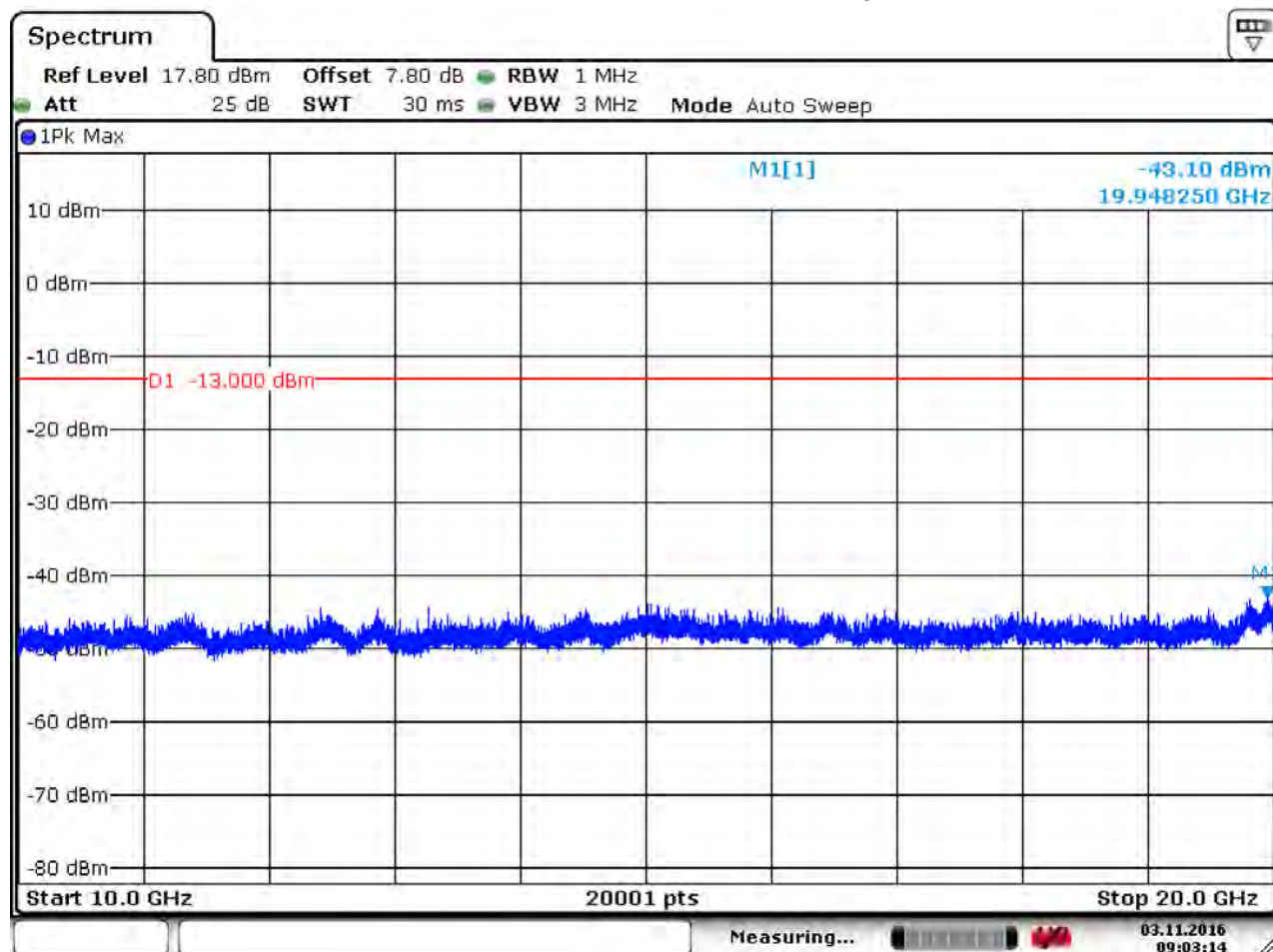
6.1.1.4.2 Test Channel = MCH



Date: 3.NOV.2016 08:41:43



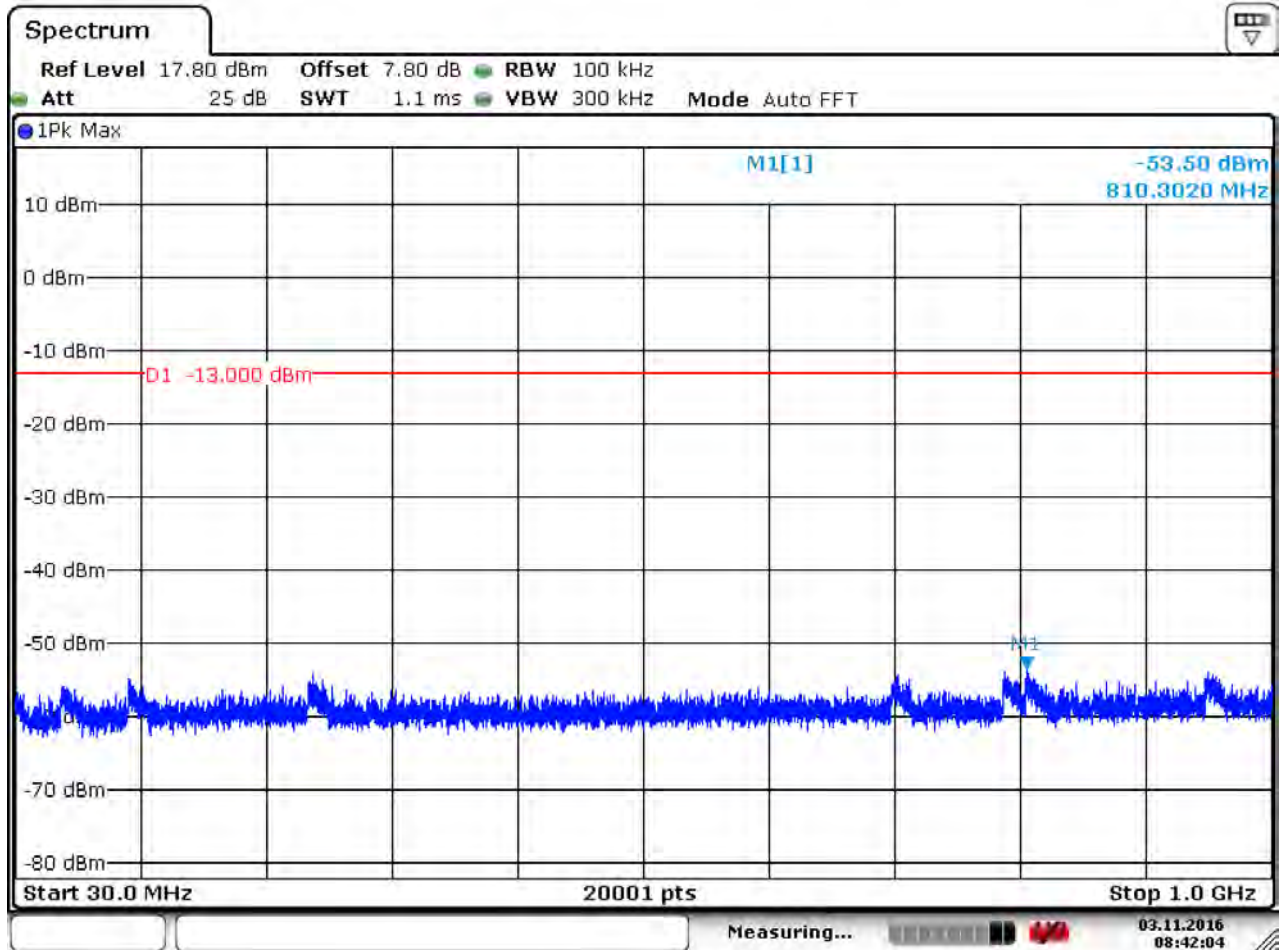
Date: 3.NOV.2016 08:50:15



Date: 3.NOV.2016 09:03:14



6.1.1.4.3 Test Channel = HCH

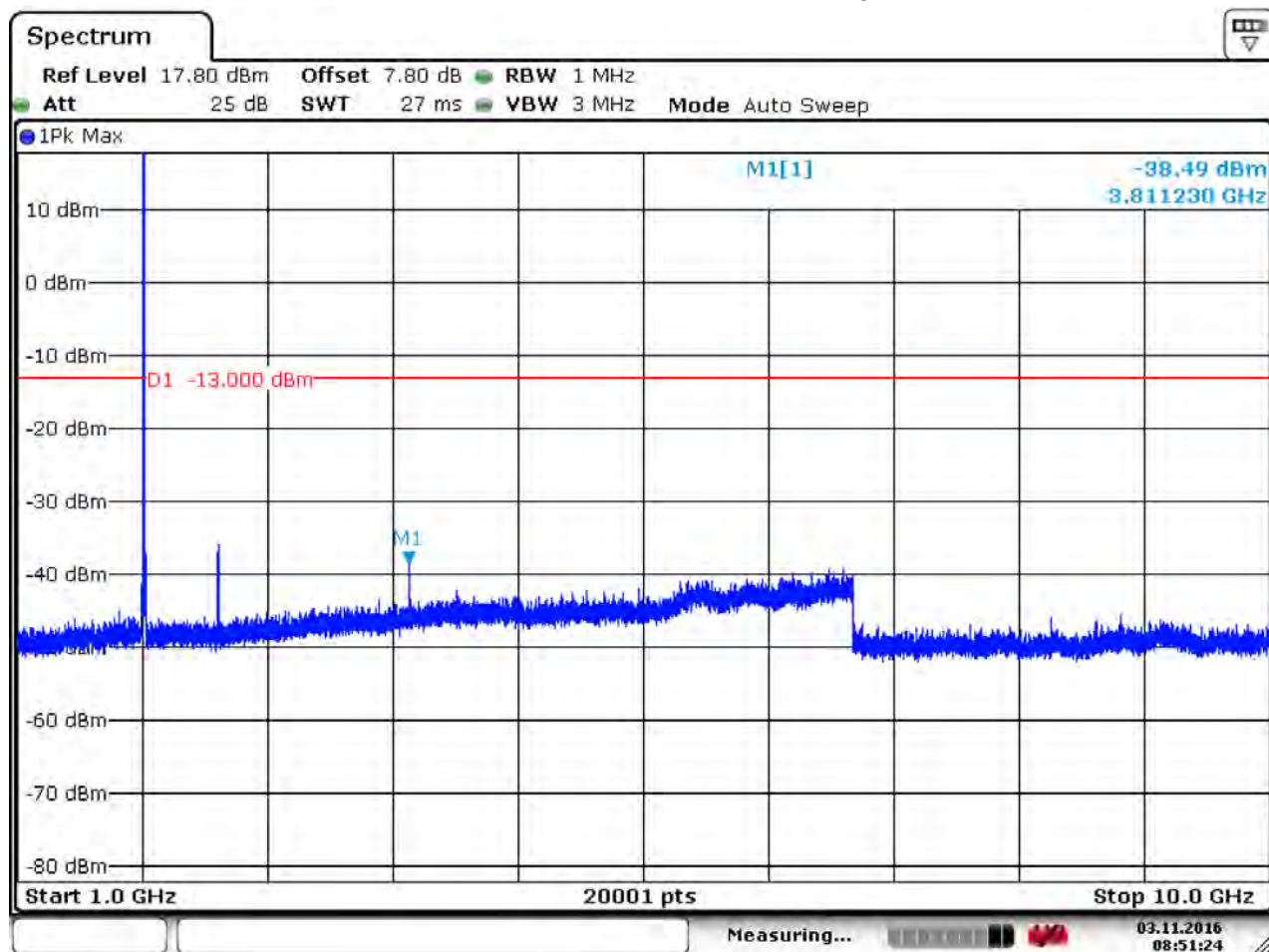


Date: 3 NOV. 2016 08:42:05



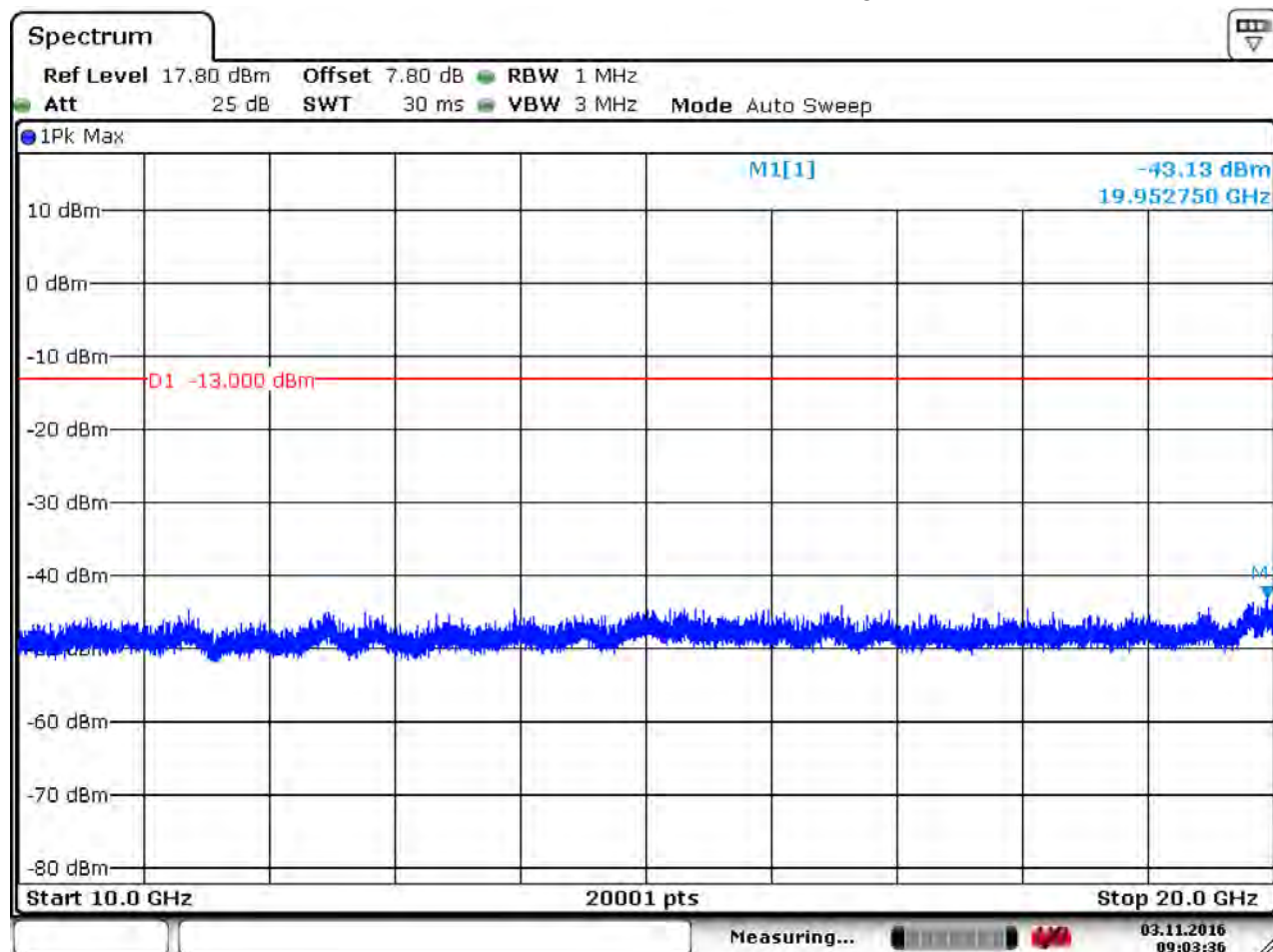
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Date: 3.NOV.2016 09:03:37



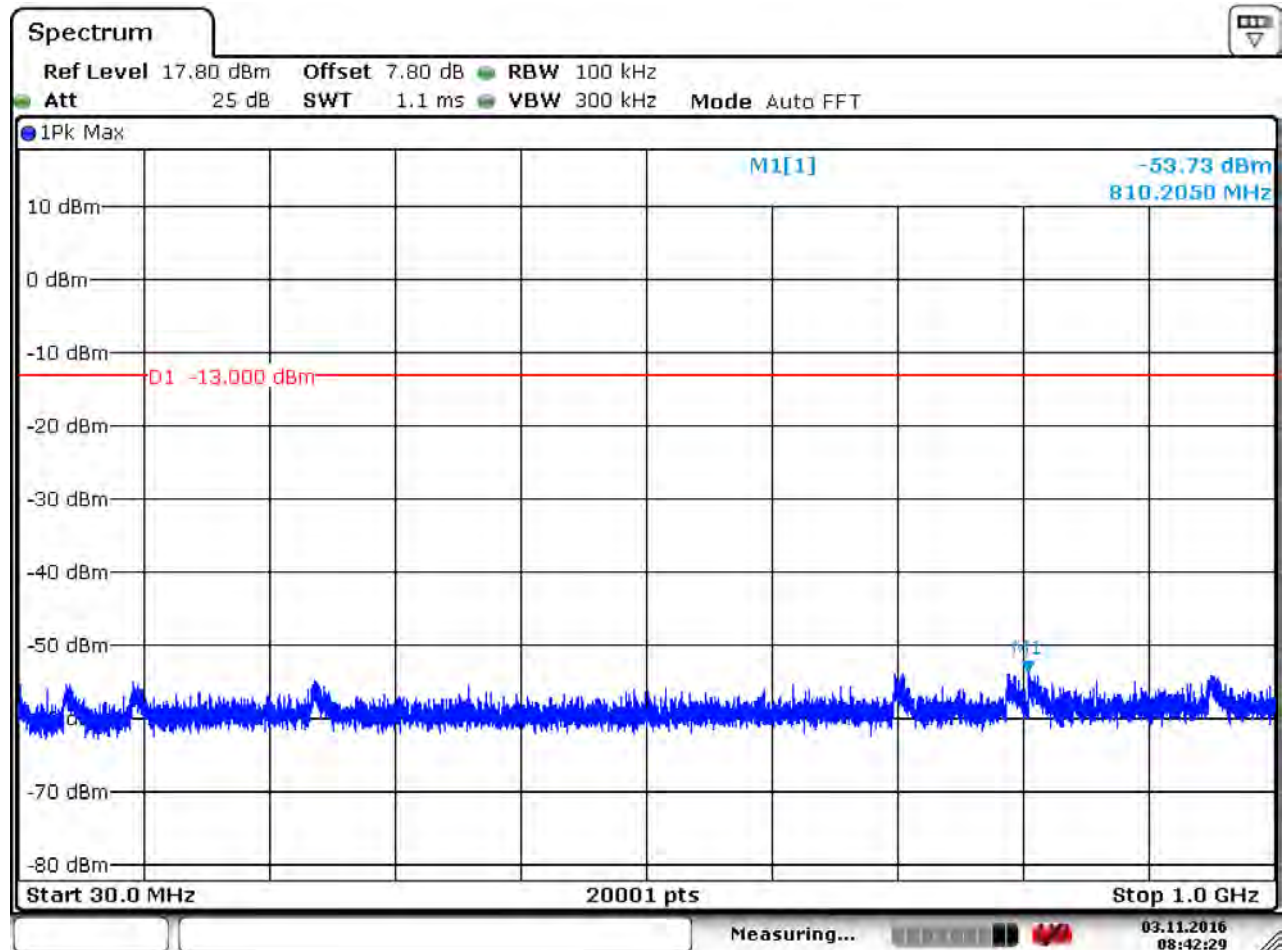
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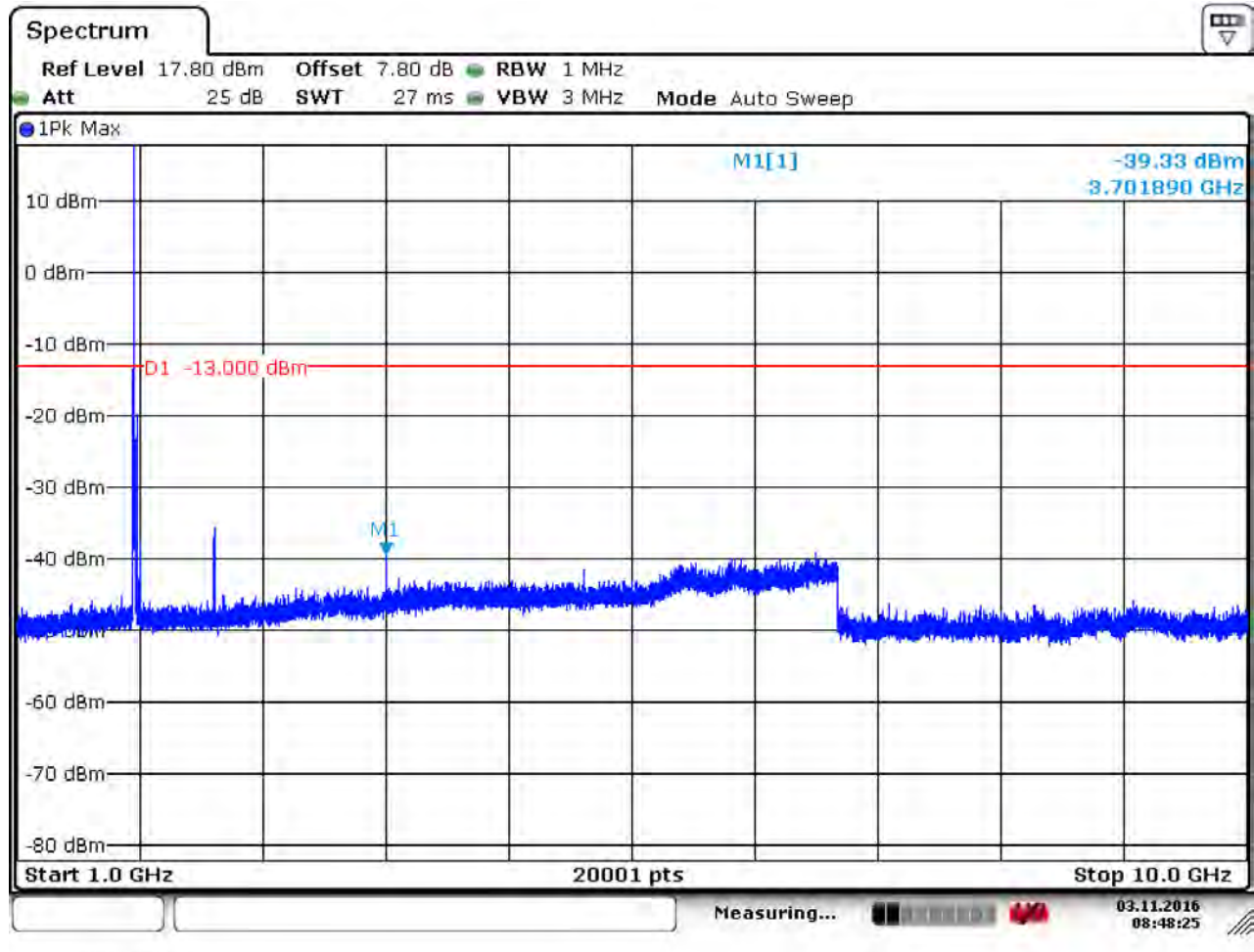
6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.5.1 Test Channel = LCH

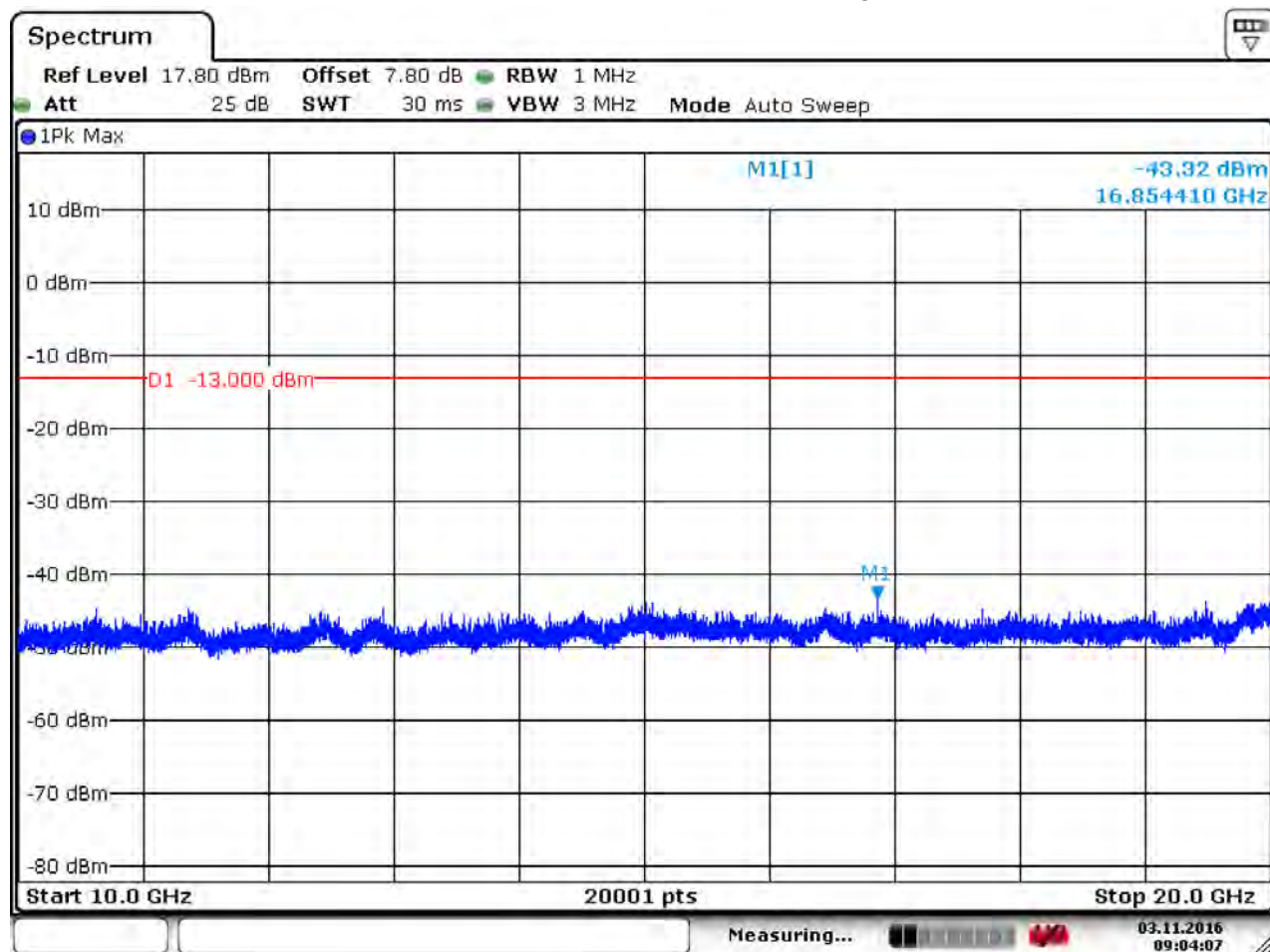


Date: 3.NOV.2016 08:42:29

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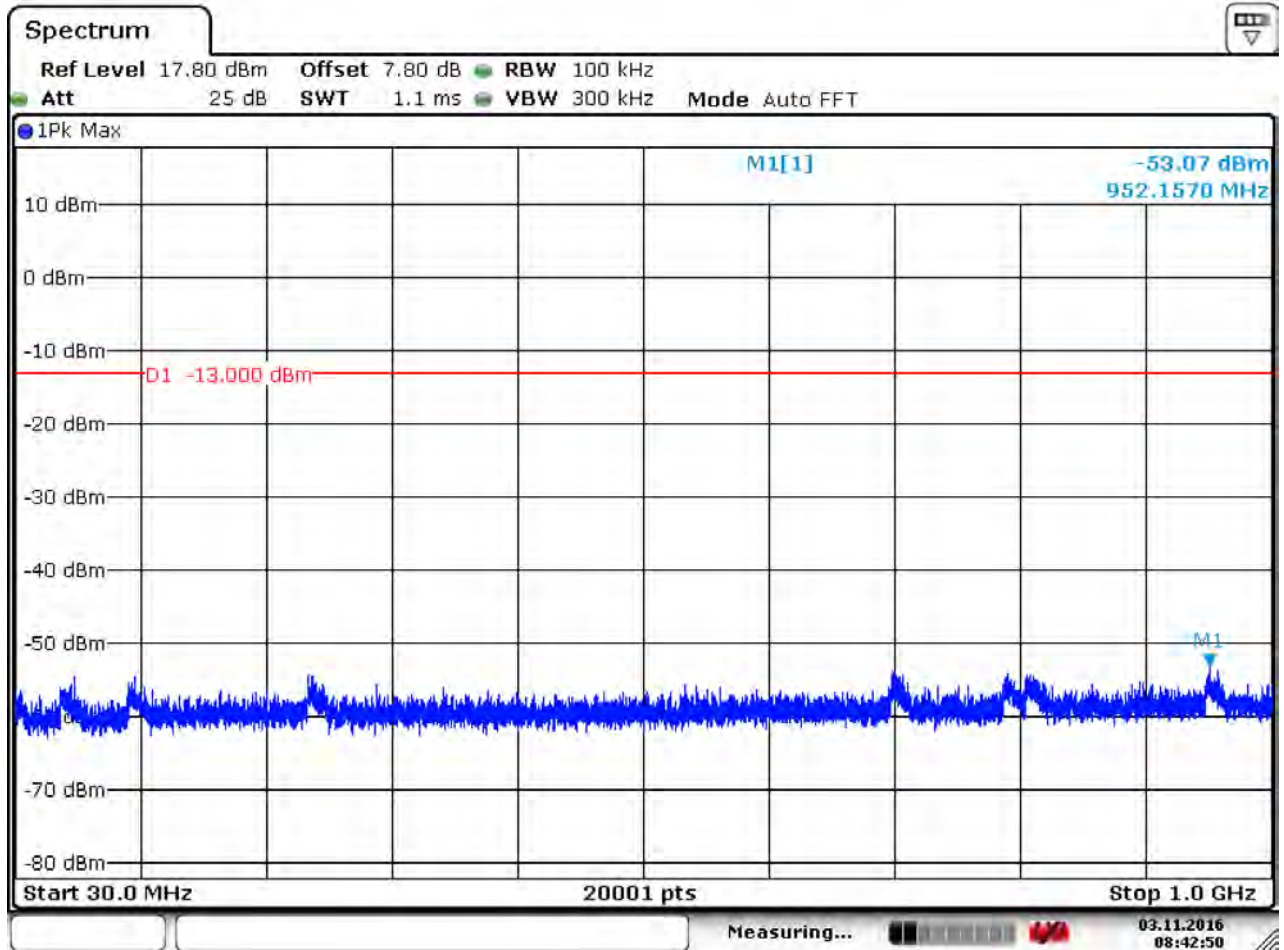
Date: 3.NOV.2016 08:48:24



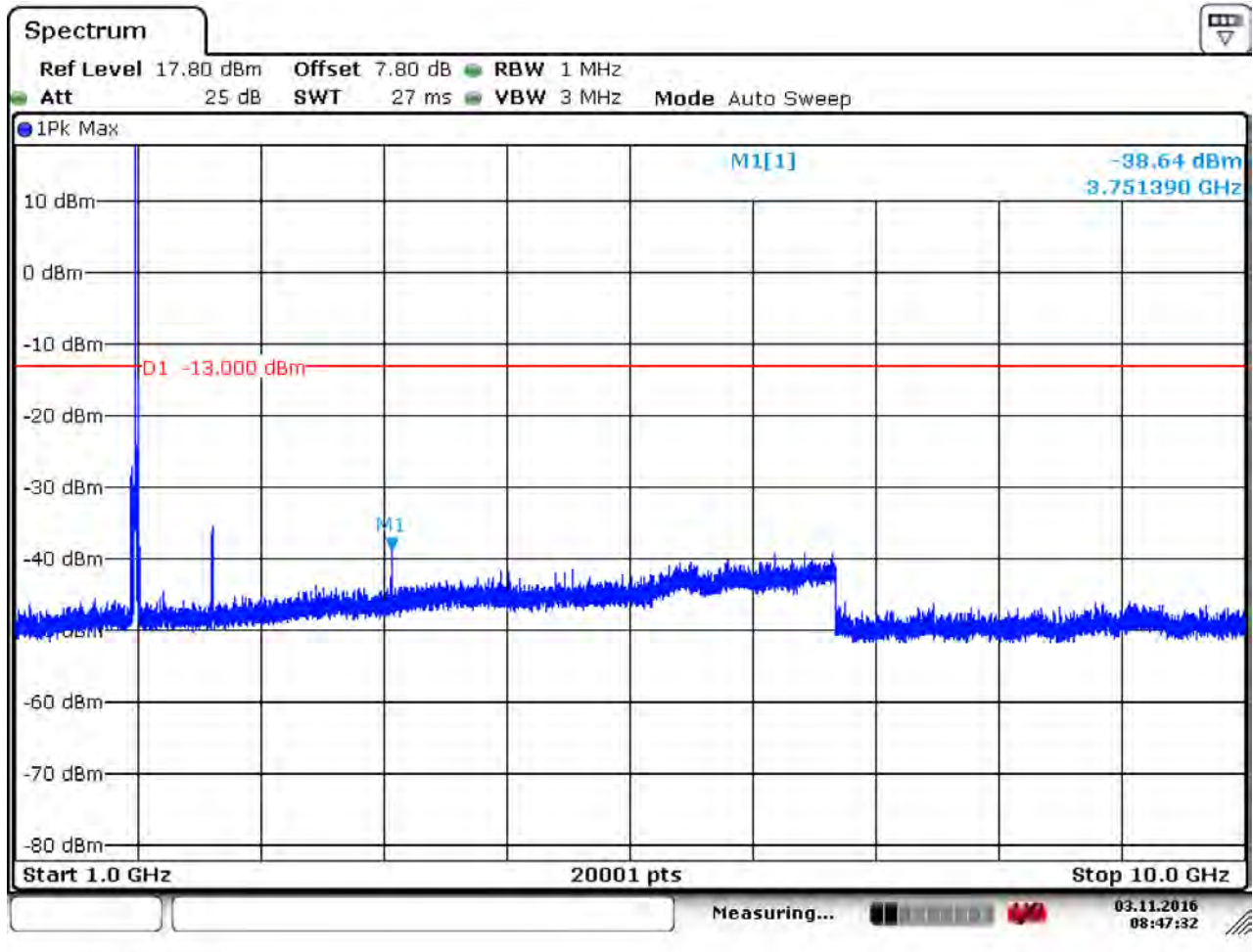
Date: 3.NOV.2016 09:04:07



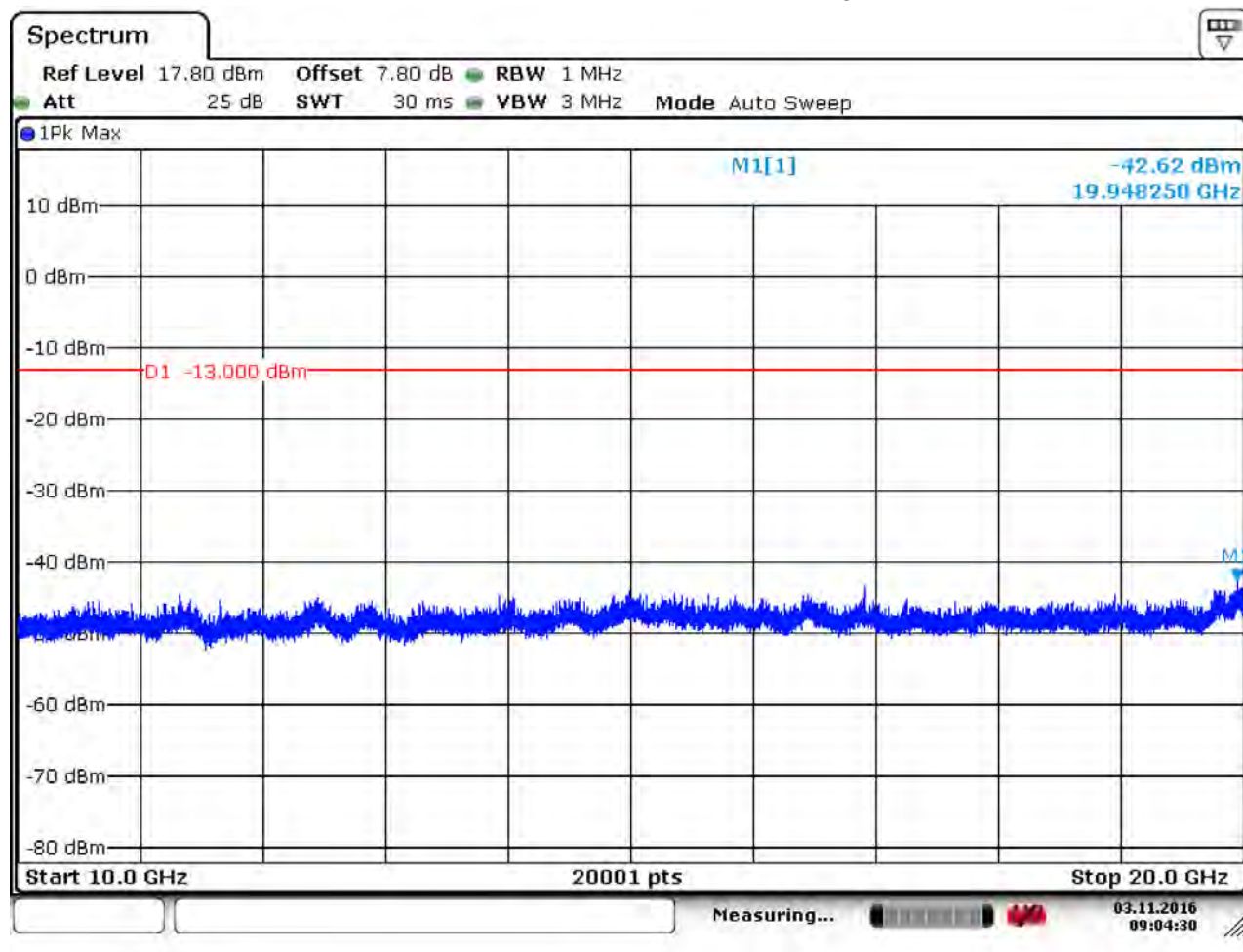
6.1.1.5.2 Test Channel = MCH



Date: 3 NOV. 2016 08:42:51



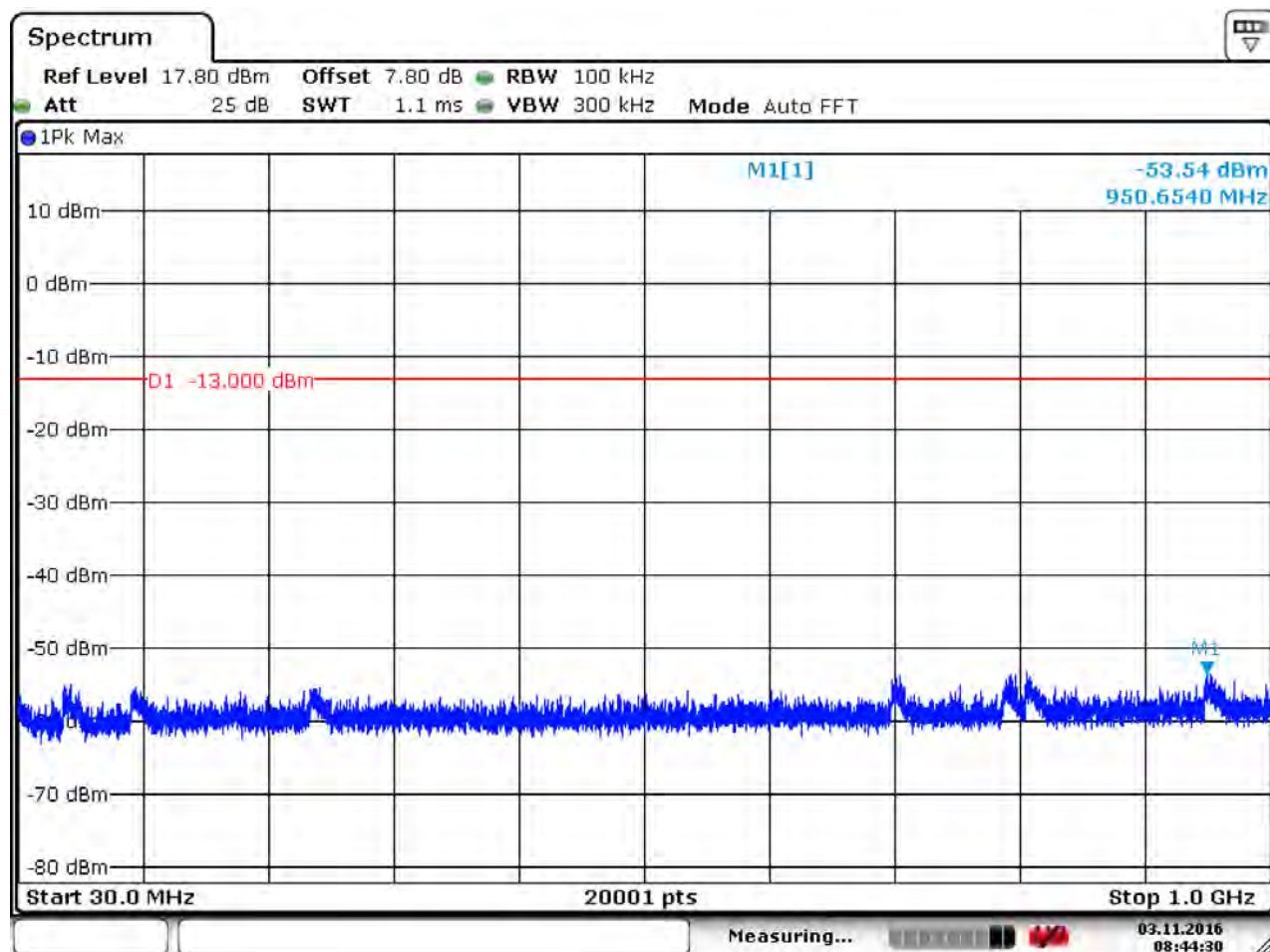
Date: 3.NOV.2016 08:47:32



Date: 3.NOV.2016 09:04:30



6.1.1.5.3 Test Channel = HCH



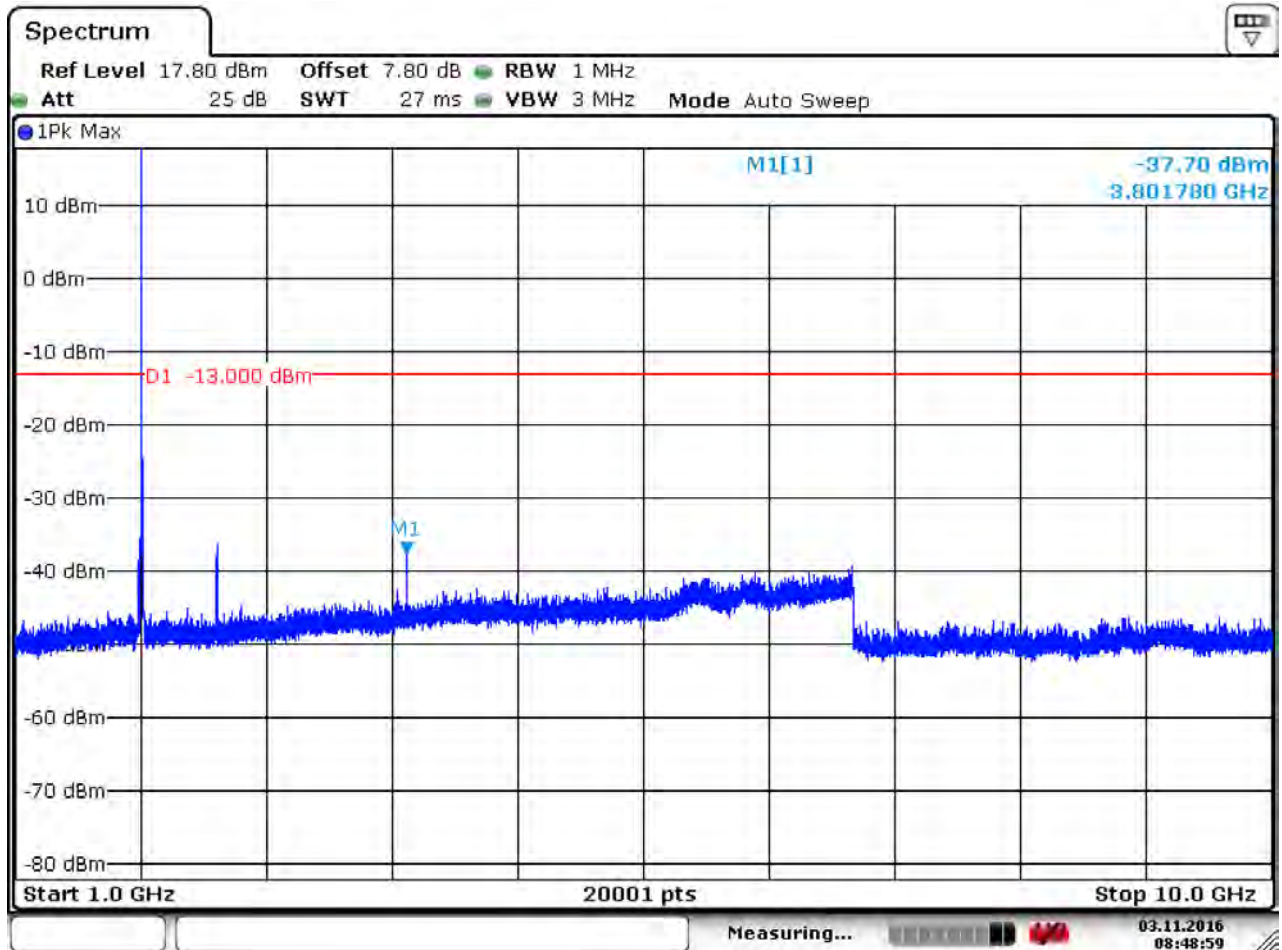
Date: 3.NOV.2016 08:44:31



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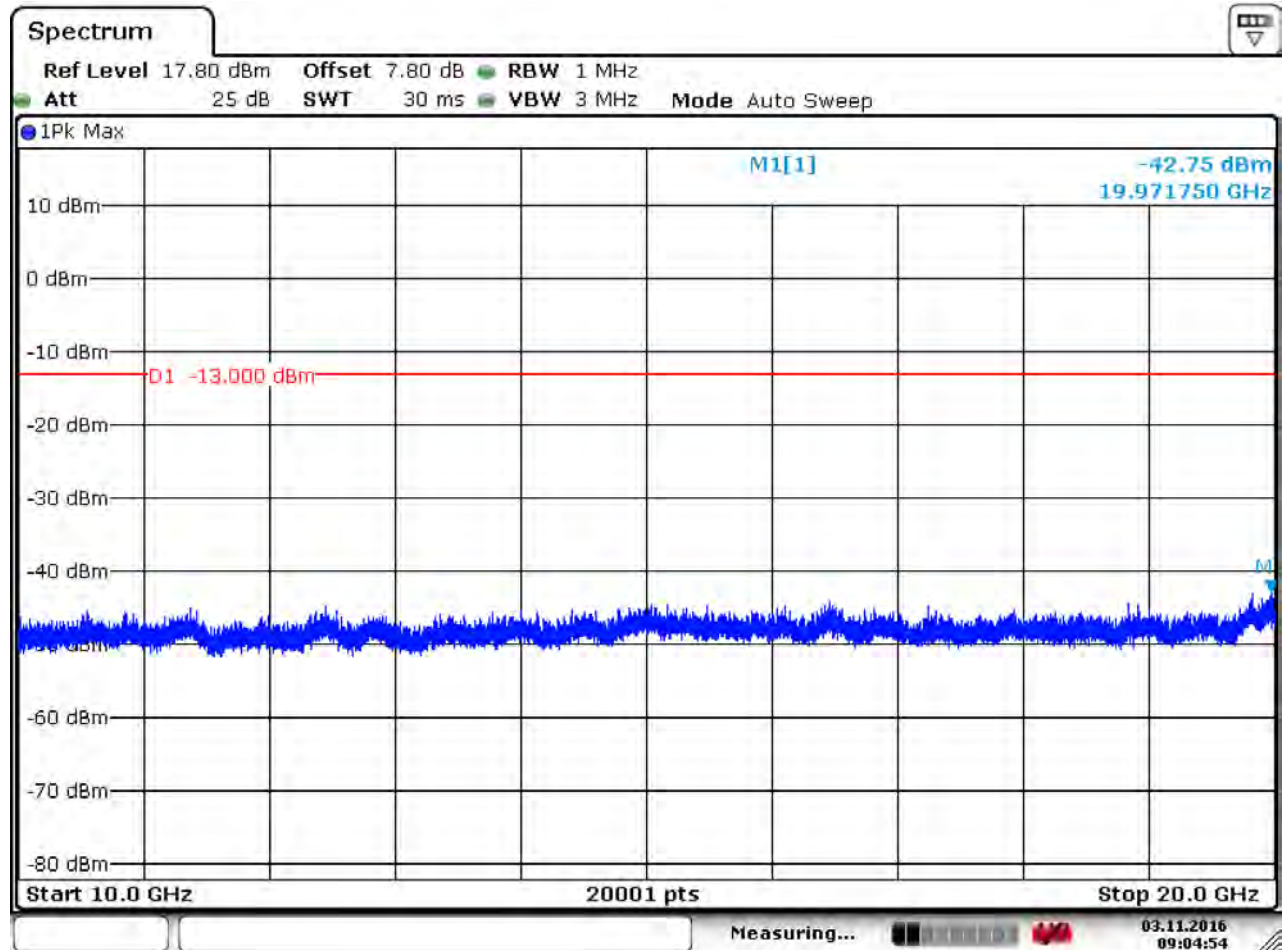
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Date: 3.NOV.2016 08:48:59

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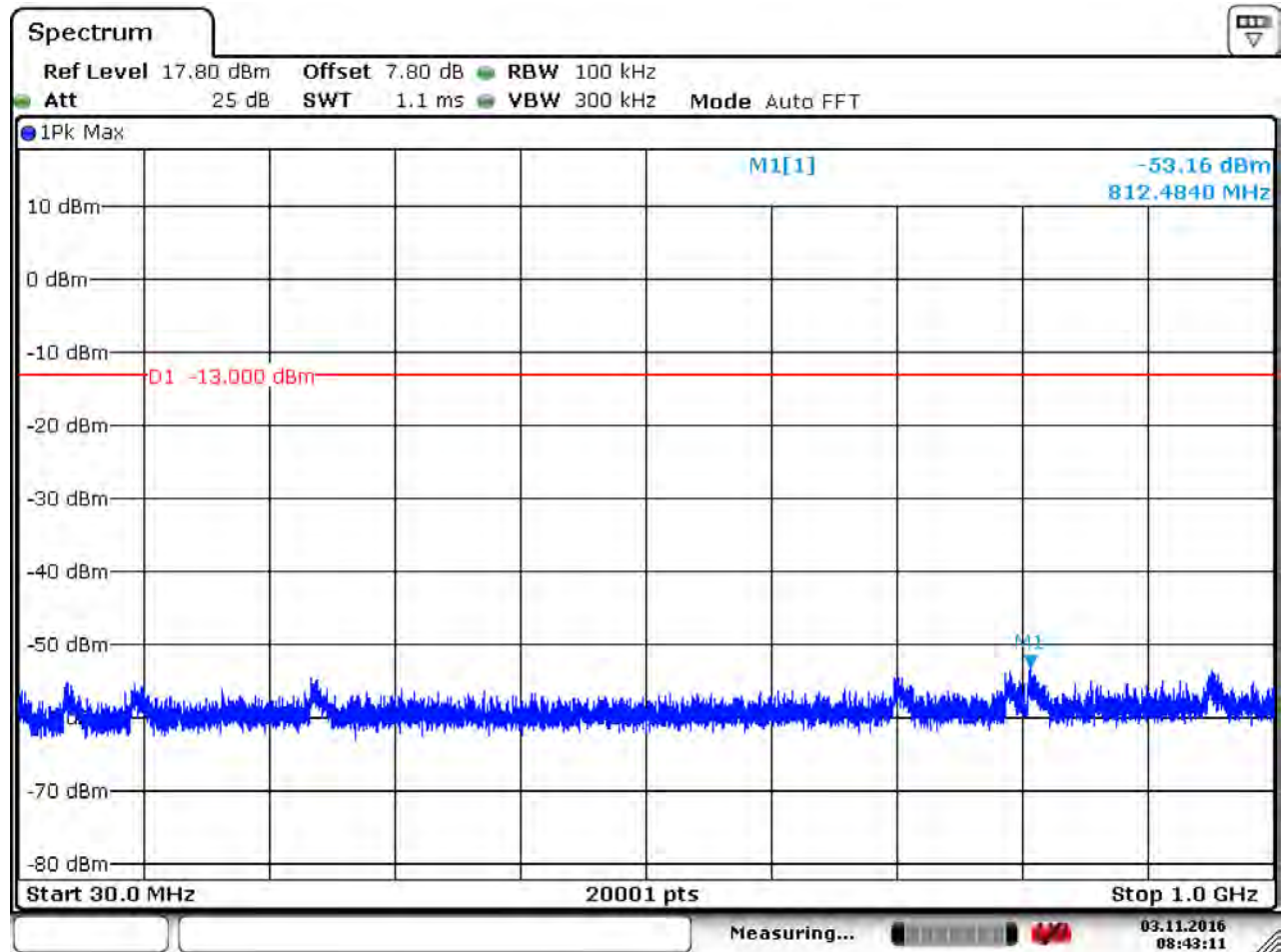


Date: 3.NOV.2016 09:04:55

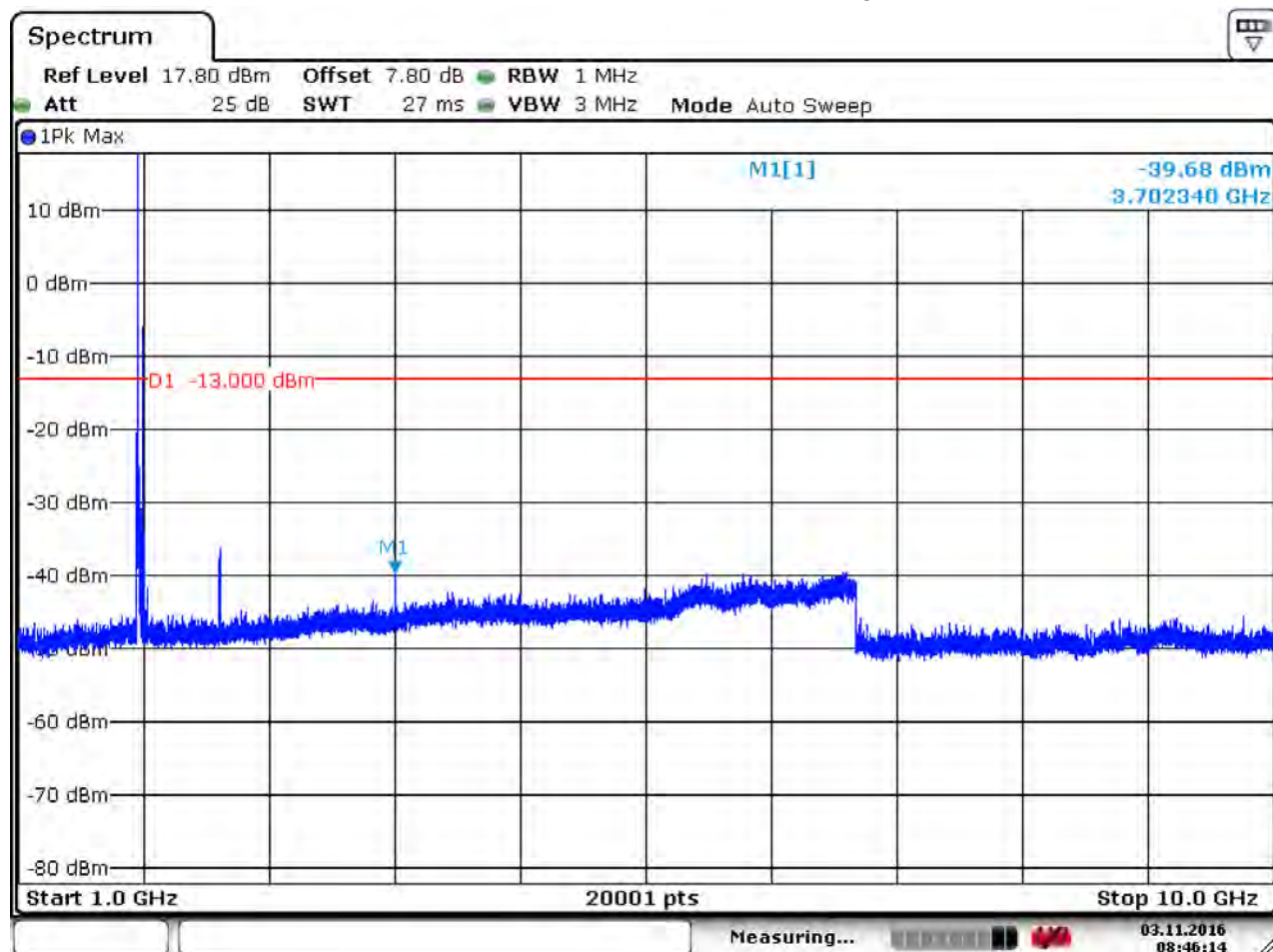


6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0

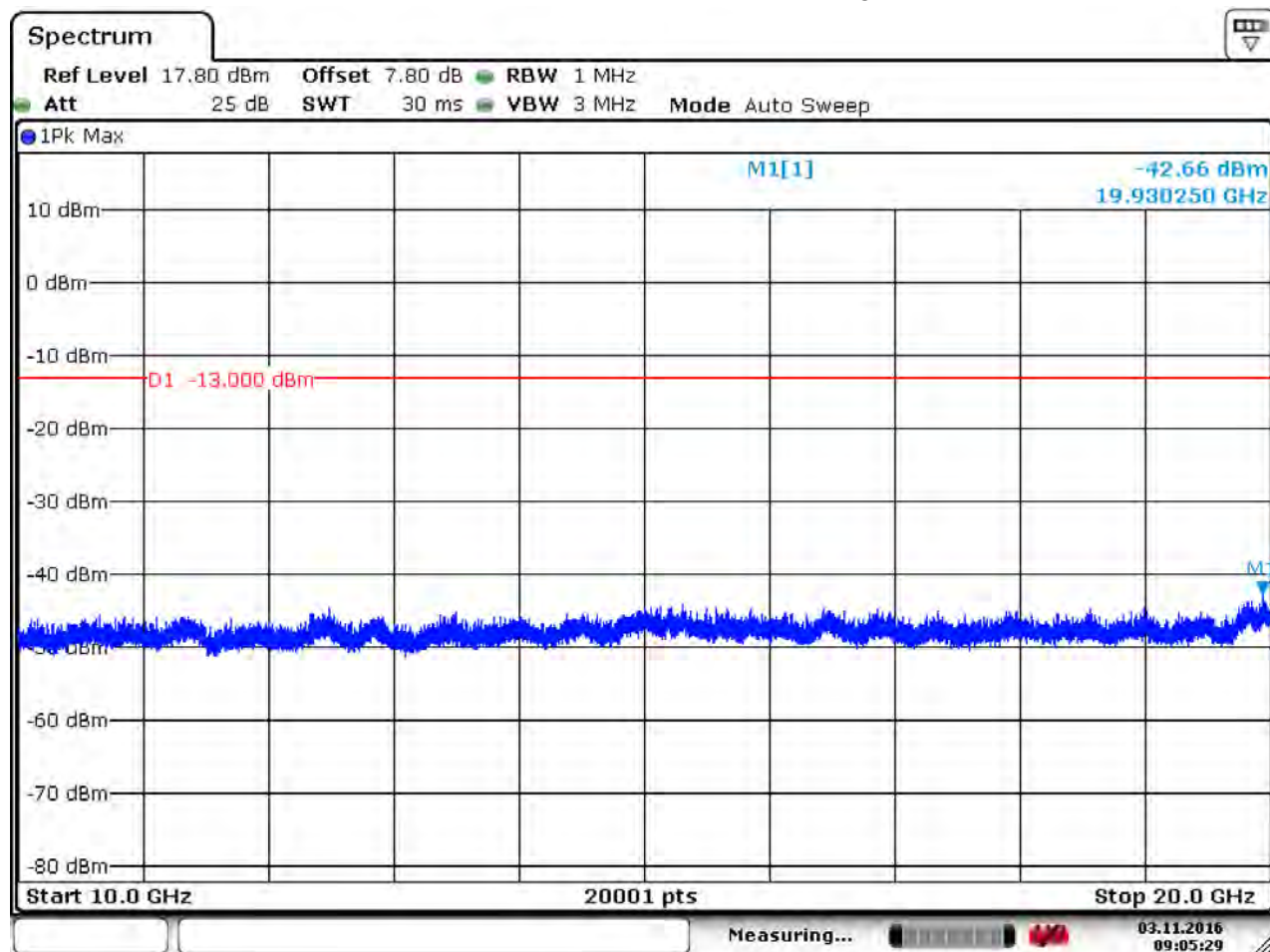
6.1.1.6.1 Test Channel = LCH



Date: 3.NOV.2016 08:43:12



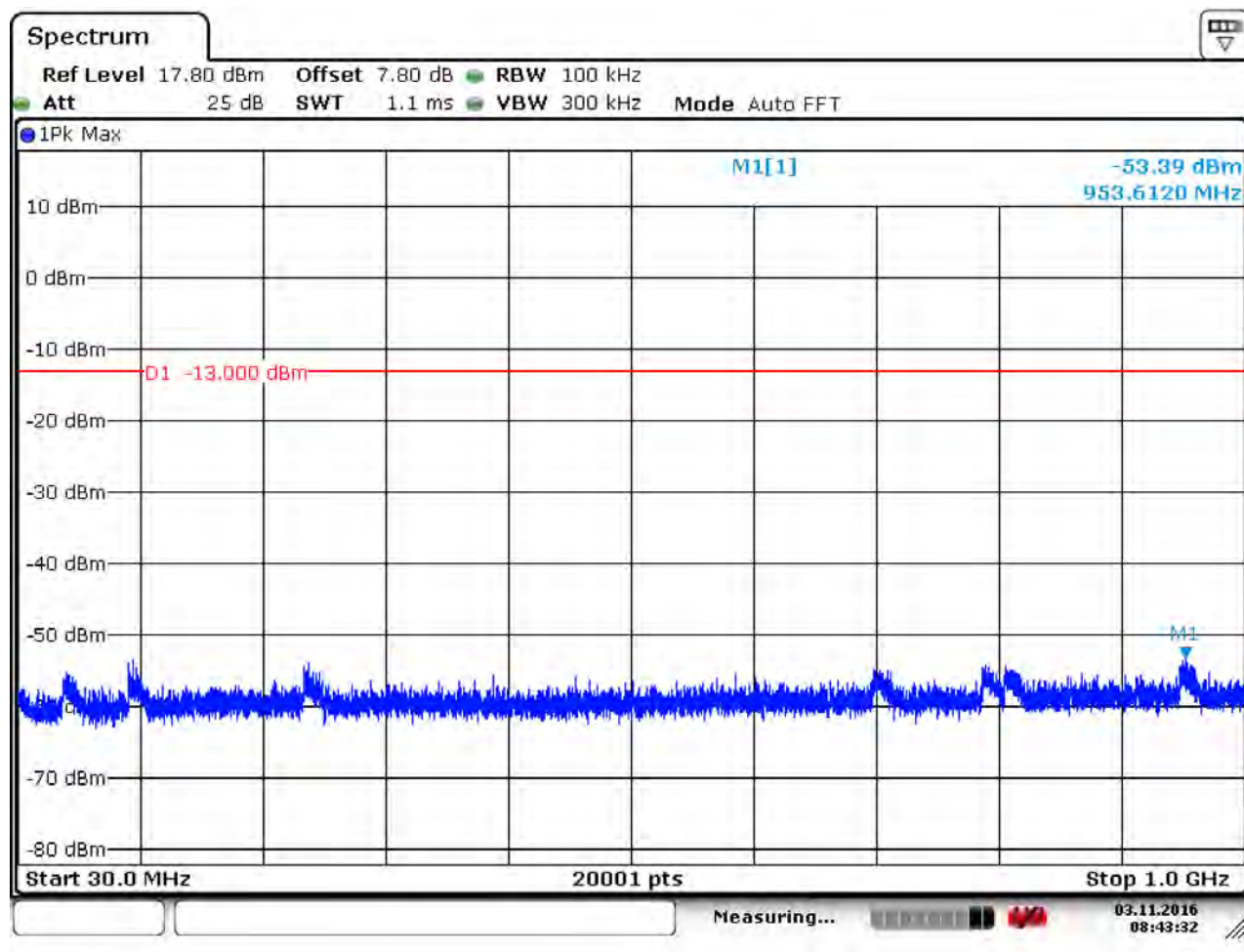
Date: 3.NOV.2016 08:46:14



Date: 3.NOV.2016 09:05:29



6.1.1.6.2 Test Channel = MCH



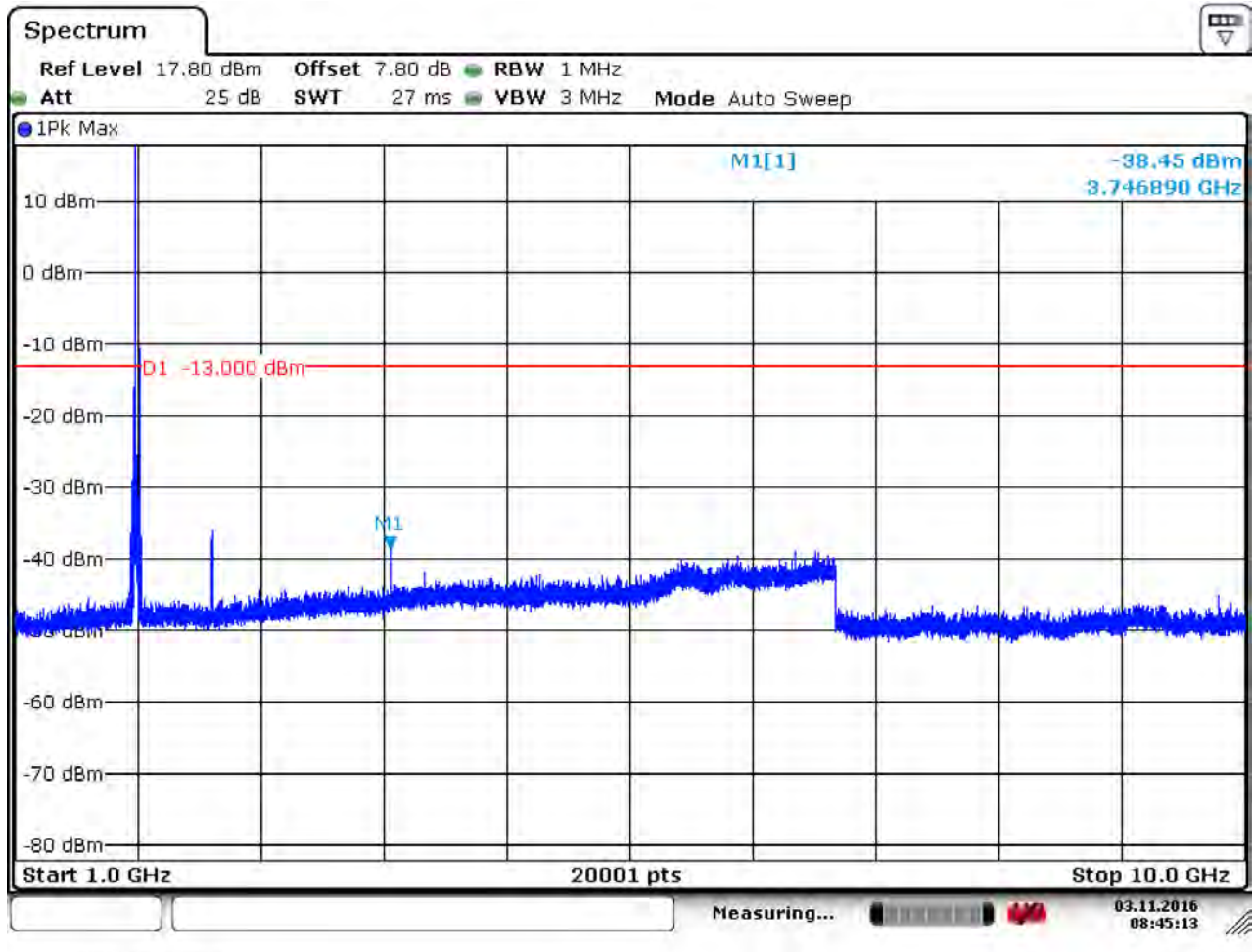
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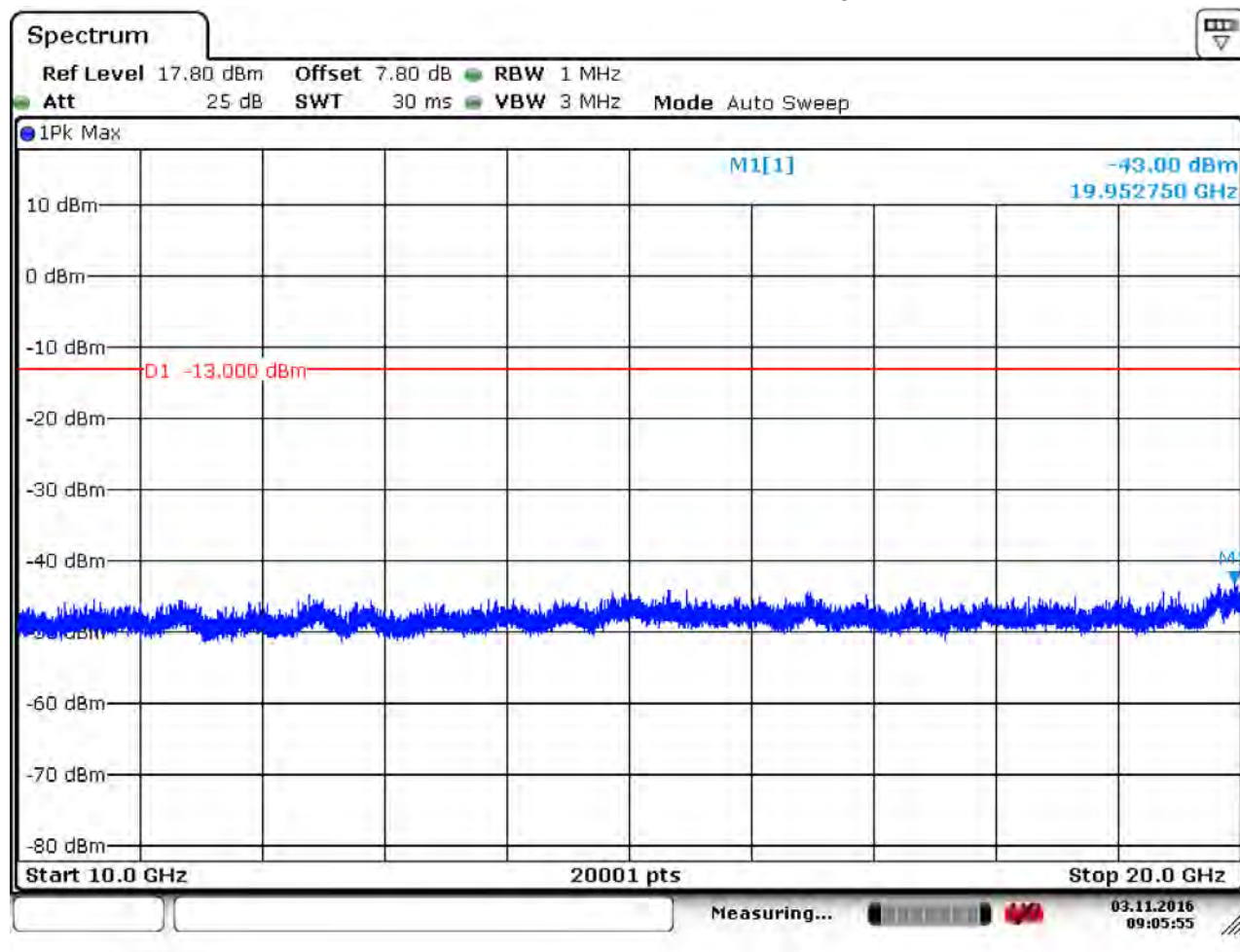
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Date: 3.NOV.2016 08:45:13

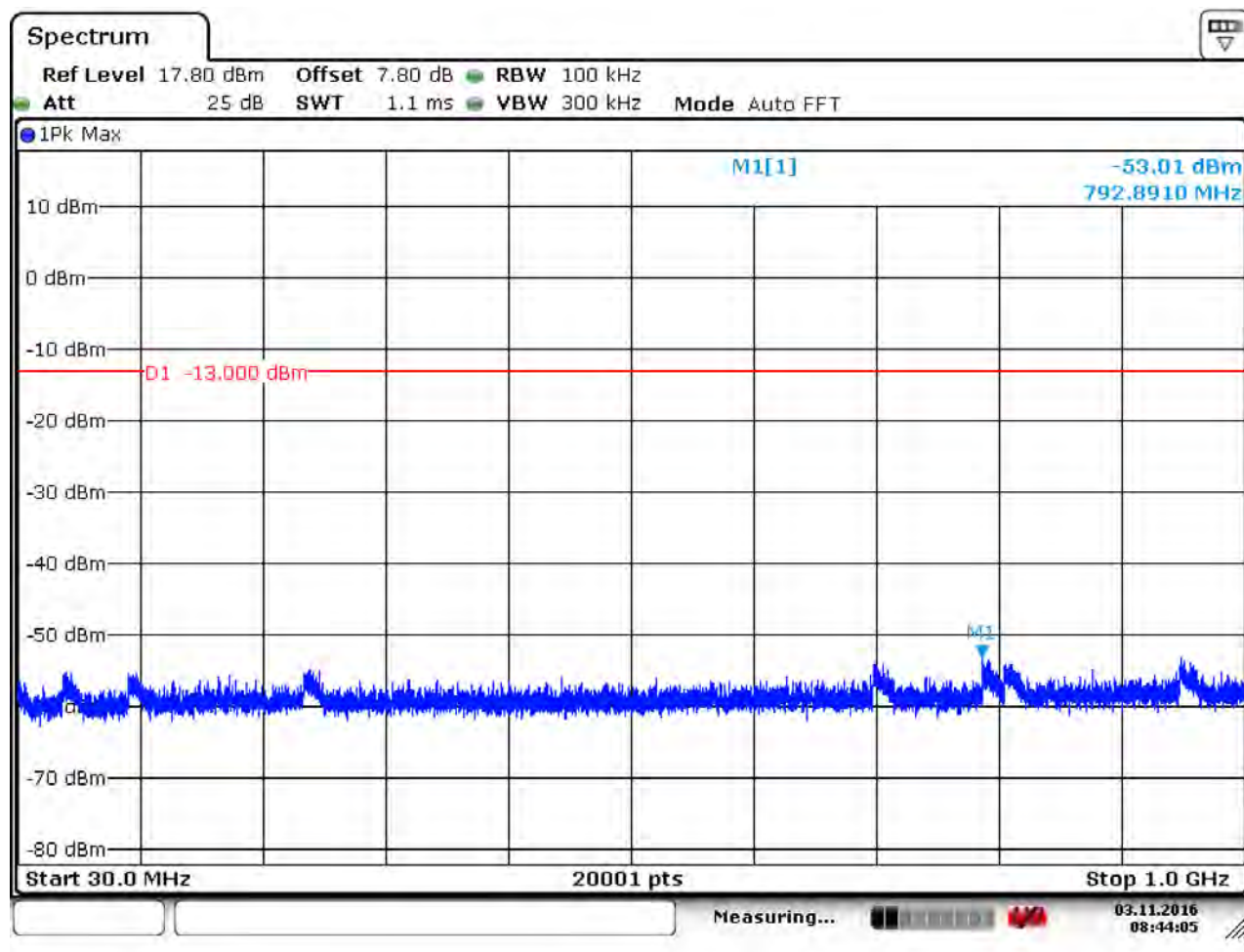
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6.1.1.6.3 Test Channel = HCH



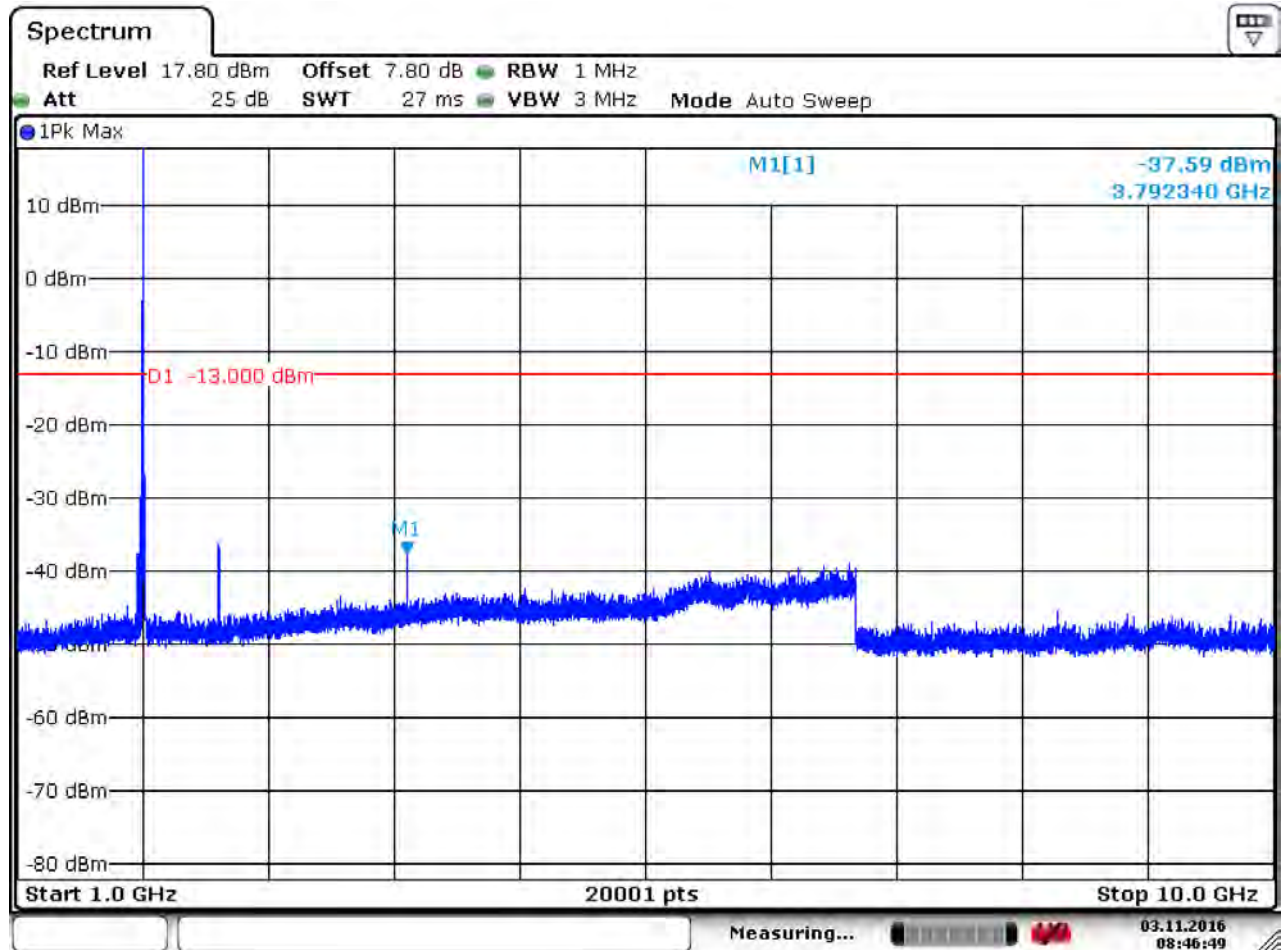
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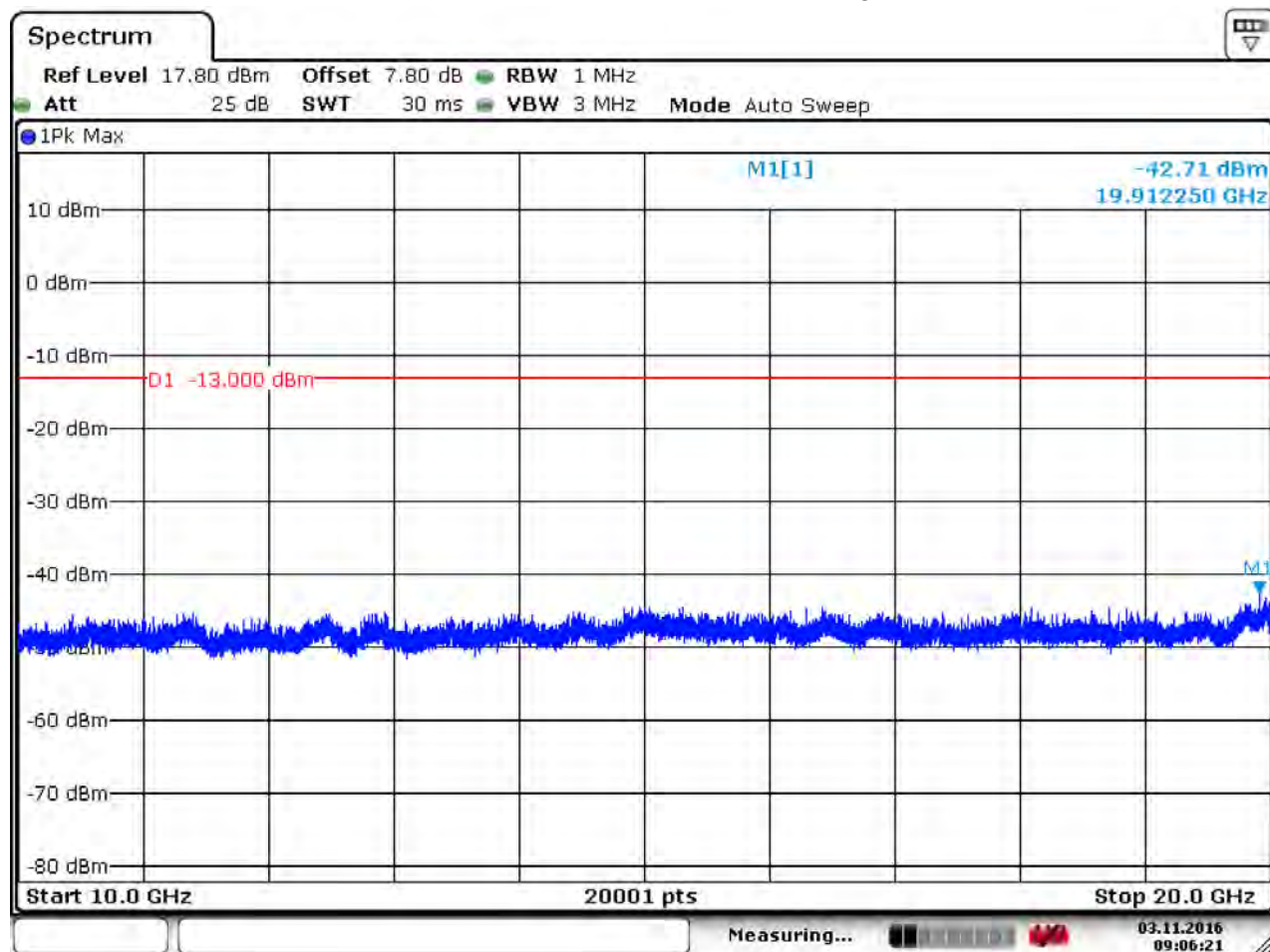
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band 25

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.500	-94.23	-13.00	-81.23	Vertical
147.500	-93.50	-13.00	-80.50	Vertical
231.000	-92.97	-13.00	-79.97	Vertical
360.000	-87.34	-13.00	-74.34	Vertical
625.500	-85.39	-13.00	-72.39	Vertical
938.500	-79.43	-13.00	-66.43	Vertical
1155.000	-50.53	-13.00	-37.53	Vertical
1892.000	-46.14	-13.00	-33.14	Vertical
4657.500	-50.85	-13.00	-37.85	Vertical
7875.000	-64.29	-13.00	-51.29	Vertical
10605.000	-63.56	-13.00	-50.56	Vertical
11875.500	-63.46	-13.00	-50.46	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.500	-95.14	-13.00	-82.14	Horizontal
135.000	-96.88	-13.00	-83.88	Horizontal
259.500	-89.11	-13.00	-76.11	Horizontal
441.000	-87.27	-13.00	-74.27	Horizontal
609.500	-84.85	-13.00	-71.85	Horizontal
801.000	-81.36	-13.00	-68.36	Horizontal
2800.000	-40.15	-13.00	-27.15	Horizontal
3682.500	-52.08	-13.00	-39.08	Horizontal
5437.500	-50.54	-13.00	-37.54	Horizontal
7875.000	-64.21	-13.00	-51.21	Horizontal
10605.000	-63.53	-13.00	-50.53	Horizontal
12265.500	-63.91	-13.00	-50.91	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	-94.23	-13.00	-81.23	Vertical
151.800	-96.44	-13.00	-83.44	Vertical
263.000	-91.09	-13.00	-78.09	Vertical
416.400	-89.09	-13.00	-76.09	Vertical
624.500	-84.56	-13.00	-71.56	Vertical
796.500	-81.75	-13.00	-68.75	Vertical
1287.000	-49.76	-13.00	-36.76	Vertical
2320.000	-42.57	-13.00	-29.57	Vertical
3682.500	-51.88	-13.00	-38.88	Vertical
6942.000	-66.21	-13.00	-53.21	Vertical
9142.500	-63.35	-13.00	-50.35	Vertical
11677.500	-63.91	-13.00	-50.91	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-93.20	-13.00	-80.20	Horizontal
143.500	-96.85	-13.00	-83.85	Horizontal
277.500	-89.42	-13.00	-76.42	Horizontal
450.000	-87.13	-13.00	-74.13	Horizontal
620.500	-84.54	-13.00	-71.54	Horizontal
845.500	-82.20	-13.00	-69.20	Horizontal
2320.000	-42.46	-13.00	-29.46	Horizontal
2680.000	-40.68	-13.00	-27.68	Horizontal
6412.500	-49.50	-13.00	-36.50	Horizontal
8074.000	-65.10	-13.00	-52.10	Horizontal
9142.500	-63.75	-13.00	-50.75	Horizontal
10125.000	-63.36	-13.00	-50.36	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	-94.22	-13.00	-81.22	Vertical
135.000	-95.52	-13.00	-82.52	Vertical
223.500	-93.34	-13.00	-80.34	Vertical
370.500	-88.25	-13.00	-75.25	Vertical
620.500	-85.54	-13.00	-72.54	Vertical
955.500	-79.22	-13.00	-66.22	Vertical
1276.000	-49.42	-13.00	-36.42	Vertical
1716.000	-47.40	-13.00	-34.40	Vertical
4462.500	-51.06	-13.00	-38.06	Vertical
7855.000	-64.19	-13.00	-51.19	Vertical
9727.500	-64.54	-13.00	-51.54	Vertical
11678.500	-63.71	-13.00	-50.71	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
84.500	-93.01	-13.00	-80.01	Horizontal
185.500	-93.84	-13.00	-80.84	Horizontal
277.500	-89.21	-13.00	-76.21	Horizontal
433.000	-87.37	-13.00	-74.37	Horizontal
614.000	-85.34	-13.00	-72.34	Horizontal
1133.000	-50.56	-13.00	-37.56	Horizontal
1540.000	-49.28	-13.00	-36.28	Horizontal
1991.000	-46.13	-13.00	-33.13	Horizontal
6217.500	-64.58	-13.00	-51.58	Horizontal
7972.500	-64.50	-13.00	-51.50	Horizontal
9728.500	-64.18	-13.00	-51.18	Horizontal
11872.500	-63.92	-13.00	-50.92	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 band25	LTE/TM1 20MHz	LCH	TN	VL	-3.43	-0.00184	PASS
				VN	-1.32	-0.00071	PASS
				VH	-2.45	-0.00132	PASS
		MCH	TN	VL	-4.33	-0.00230	PASS
				VN	-1.40	-0.00074	PASS
				VH	-7.29	-0.00387	PASS
		HCH	TN	VL	-4.34	-0.00228	PASS
				VN	-6.90	-0.00362	PASS
				VH	-1.55	-0.00081	PASS
	LTE/TM2 20MHz	LCH	TN	VL	0.45	0.00024	PASS
				VN	-1.69	-0.00091	PASS
				VH	0.44	0.00024	PASS
		MCH	TN	VL	1.88	0.00100	PASS
				VN	2.43	0.00129	PASS
				VH	-6.32	-0.00336	PASS
		HCH	TN	VL	4.94	0.00259	PASS
				VN	-0.65	-0.00034	PASS
				VH	-5.12	-0.00269	PASS
	LTE/TM3 20MHz	LCH	TN	VL	-2.45	-0.00132	PASS
				VN	0.32	0.00017	PASS
				VH	-4.23	-0.00227	PASS
		MCH	TN	VL	2.09	0.00111	PASS
				VN	1.34	0.00071	PASS
				VH	-5.13	-0.00273	PASS
		HCH	TN	VL	-3.43	-0.00180	PASS
				VN	2.76	0.00145	PASS
				VH	-4.21	-0.00221	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 band25	LTE/TM1 20MHz	LCH	VN	-30	2.73	0.00147	PASS
				-20	1.50	0.00081	PASS
				-10	0.67	0.00036	PASS
				0	-2.68	-0.00144	PASS
				10	0.57	0.00031	PASS
				20	-1.80	-0.00097	PASS
				30	3.60	0.00194	PASS
				40	-5.04	-0.00271	PASS
				50	-6.01	-0.00323	PASS
		MCH	VN	-30	-2.80	-0.00149	PASS
				-20	-3.08	-0.00164	PASS
				-10	-0.39	-0.00021	PASS
				0	-4.34	-0.00231	PASS
				10	2.31	0.00123	PASS
				20	1.72	0.00091	PASS
				30	0.61	0.00032	PASS
				40	2.13	0.00113	PASS
				50	-4.35	-0.00231	PASS
		HCH	VN	-30	-0.12	-0.00006	PASS
				-20	0.68	0.00036	PASS
				-10	0.50	0.00026	PASS
				0	-3.32	-0.00174	PASS
				10	1.59	0.00083	PASS
				20	-4.78	-0.00251	PASS
				30	2.24	0.00118	PASS
				40	-0.68	-0.00036	PASS
				50	-5.60	-0.00294	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band25	LTE/TM2 20MHz	LCH	VN	-30	-2.49	-0.00134	PASS
				-20	-8.96	-0.00482	PASS
				-10	-3.97	-0.00213	PASS
				0	2.50	0.00134	PASS
				10	-5.65	-0.00304	PASS
				20	-0.11	-0.00006	PASS
				30	-5.96	-0.00320	PASS
				40	-5.71	-0.00307	PASS
				50	-4.74	-0.00255	PASS
		MCH	VN	-30	-3.33	-0.00177	PASS
				-20	-4.29	-0.00228	PASS
				-10	-2.34	-0.00124	PASS
				0	-7.76	-0.00412	PASS
				10	1.10	0.00058	PASS
				20	-2.43	-0.00129	PASS
				30	-4.13	-0.00219	PASS
				40	-5.24	-0.00278	PASS
				50	-6.00	-0.00319	PASS
		HCH	VN	-30	-3.25	-0.00171	PASS
				-20	-6.54	-0.00343	PASS
				-10	-7.22	-0.00379	PASS
				0	0.30	0.00016	PASS
				10	-3.07	-0.00161	PASS
				20	-4.03	-0.00212	PASS
				30	-3.22	-0.00169	PASS
				40	-2.84	-0.00149	PASS
				50	-5.07	-0.00266	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band25	LTE/TM3 20MHz	LCH	VN	-30	-2.43	-0.00131	PASS
				-20	-8.95	-0.00481	PASS
				-10	-3.98	-0.00214	PASS
				0	-4.45	-0.00239	PASS
				10	-5.58	-0.00300	PASS
				20	1.08	0.00058	PASS
				30	-389	-0.20914	PASS
				40	-5.70	-0.00306	PASS
				50	-4.32	-0.00232	PASS
		MCH	VN	-30	-6.92	-0.00368	PASS
				-20	-3.27	-0.00174	PASS
				-10	-4.43	-0.00235	PASS
				0	-7.84	-0.00416	PASS
				10	-5.25	-0.00279	PASS
				20	-1.59	-0.00084	PASS
				30	-5.27	-0.00280	PASS
				40	-3.13	-0.00166	PASS
				50	-6.11	-0.00325	PASS
		HCH	VN	-30	-4.35	-0.00228	PASS
				-20	-6.68	-0.00351	PASS
				-10	2.85	0.00150	PASS
				0	-1.37	-0.00072	PASS
				10	-7.18	-0.00377	PASS
				20	-0.16	-0.00008	PASS
				30	-3.31	-0.00174	PASS
				40	2.92	0.00153	PASS
				50	-5.24	-0.00275	PASS

The End

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