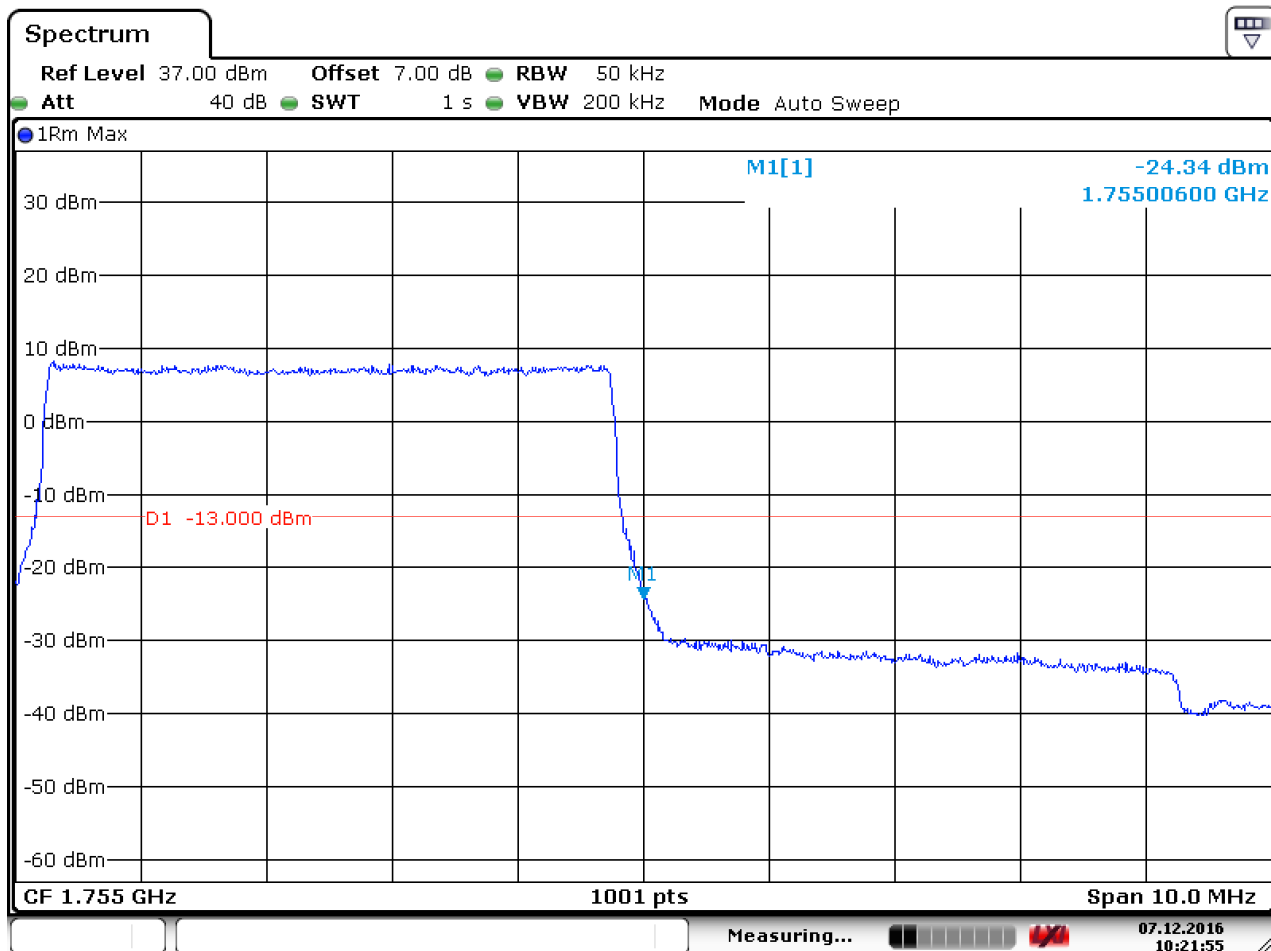




5.1.1.5.2.2 Test RB=25RB



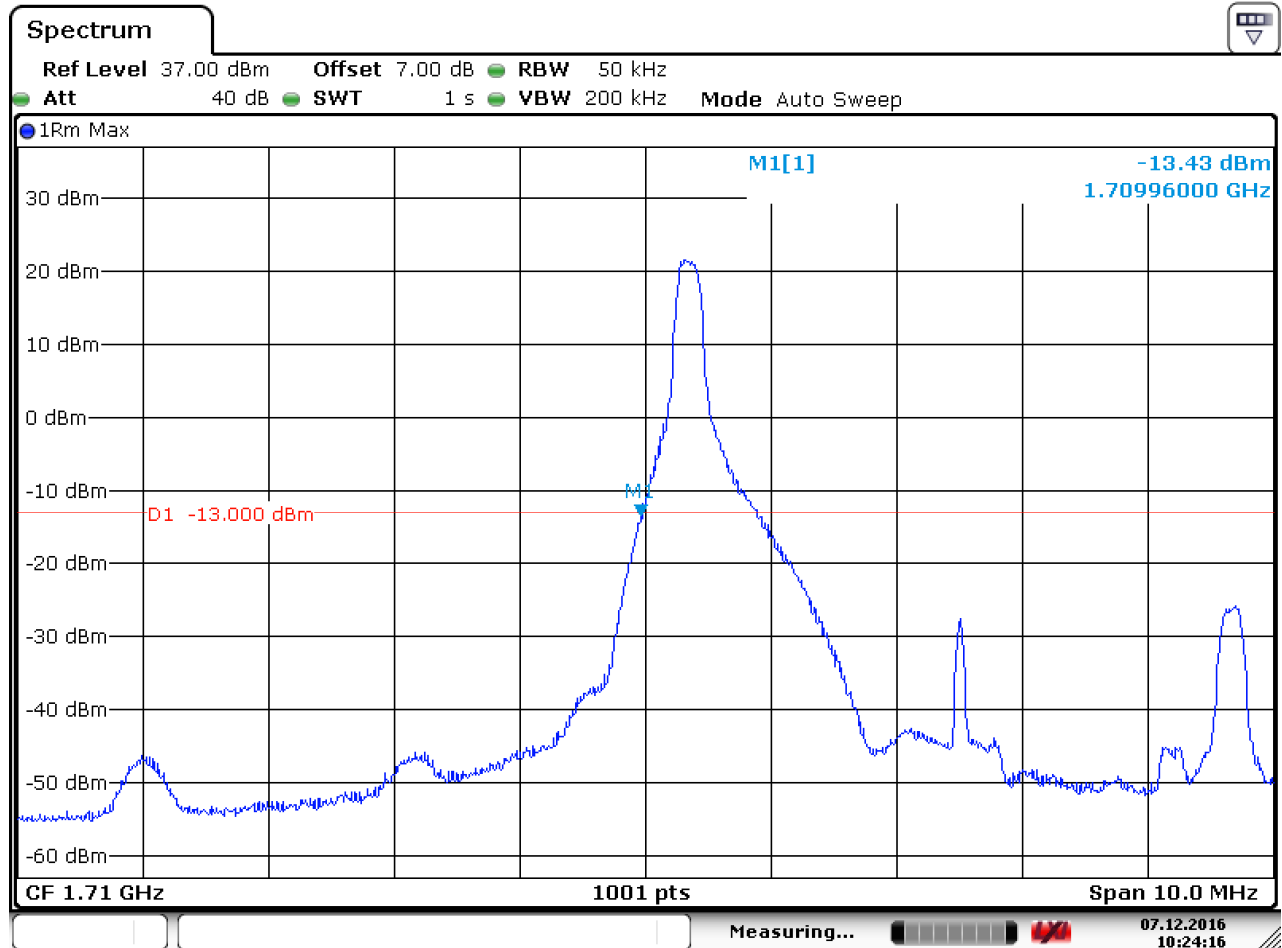
Date: 7.DEC.2016 10:21:55



5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

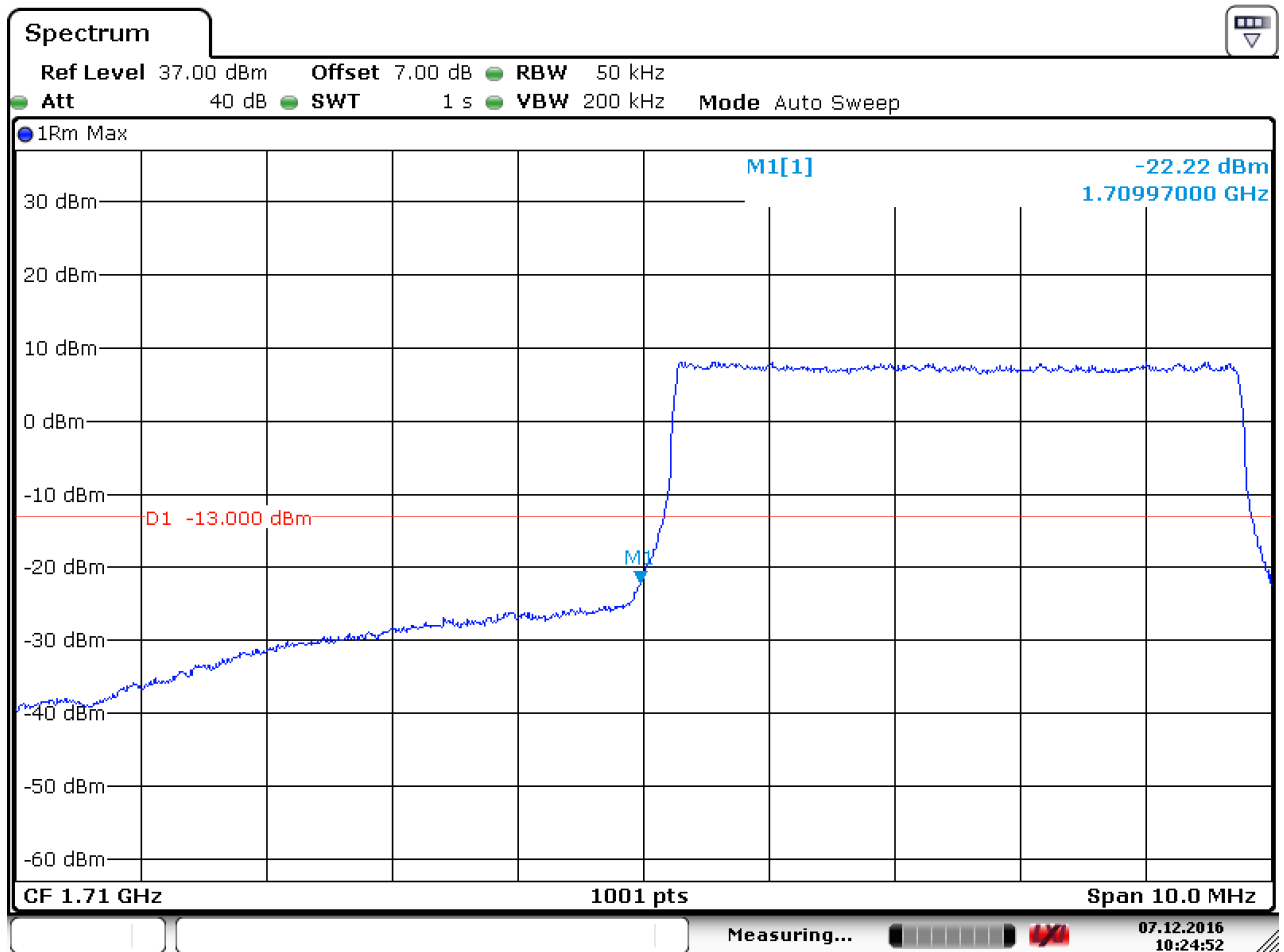
5.1.1.6.1.1 Test RB=1RB



Date: 7.DEC.2016 10:24:17



5.1.1.6.1.2 Test RB=25RB

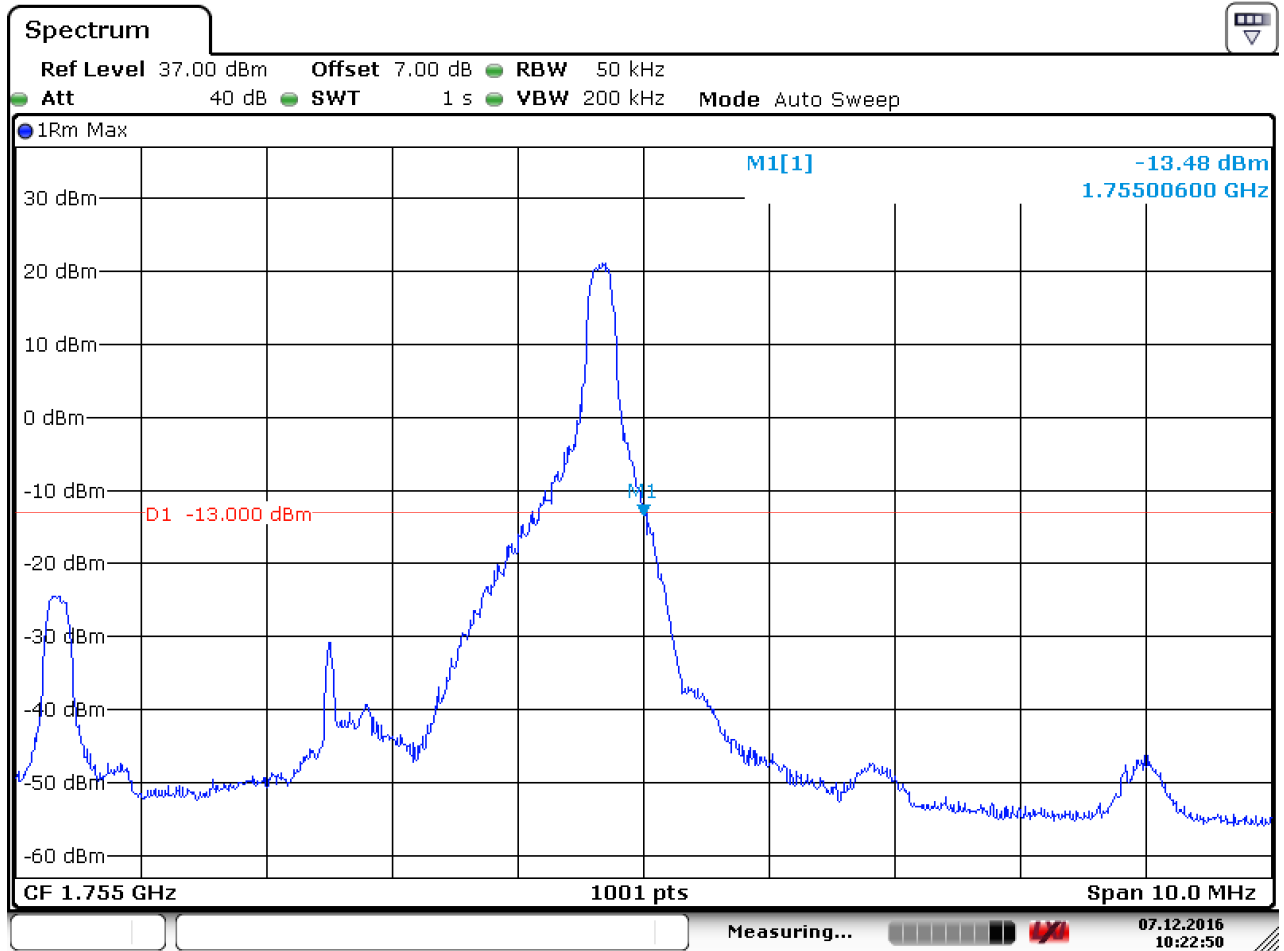


Date: 7.DEC.2016 10:24:53



5.1.1.6.2 Test Channel = HCH

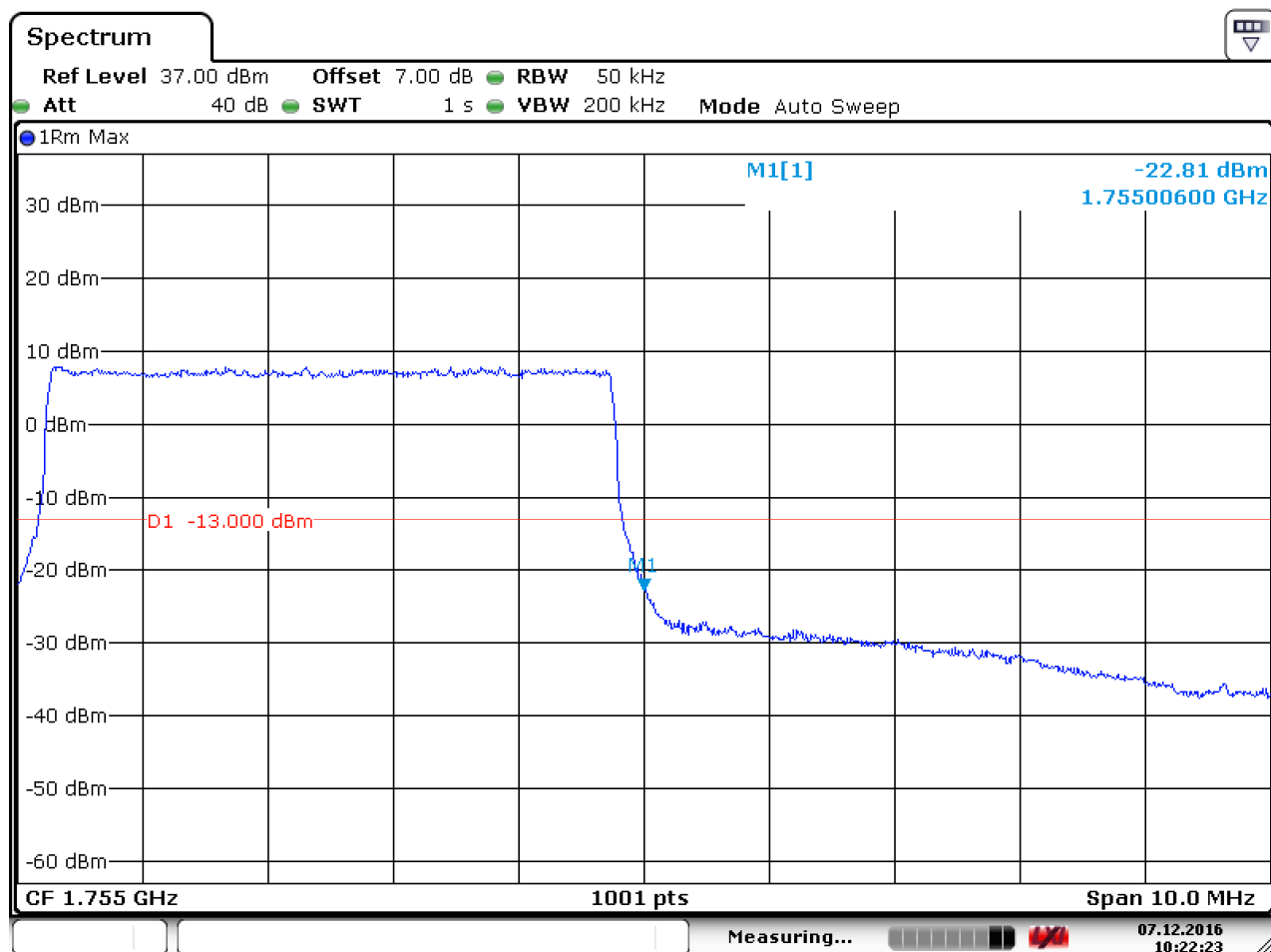
5.1.1.6.2.1 Test RB=1RB



Date: 7.DEC.2016 10:22:50



5.1.1.6.2.2 Test RB=25RB



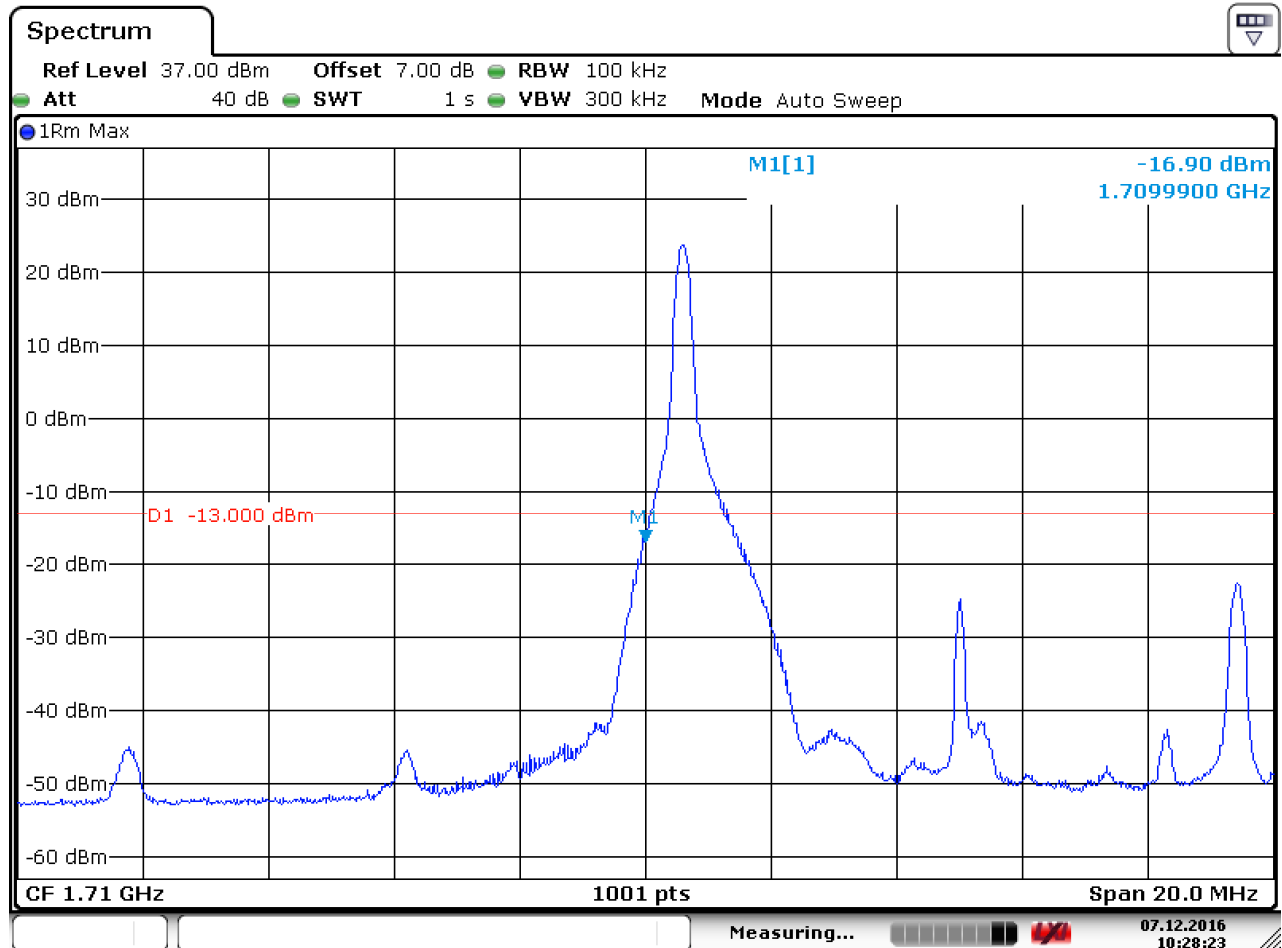
Date: 7.DEC.2016 10:22:24



5.1.1.7 Test Mode = LTE/TM1 10MHz

5.1.1.7.1 Test Channel = LCH

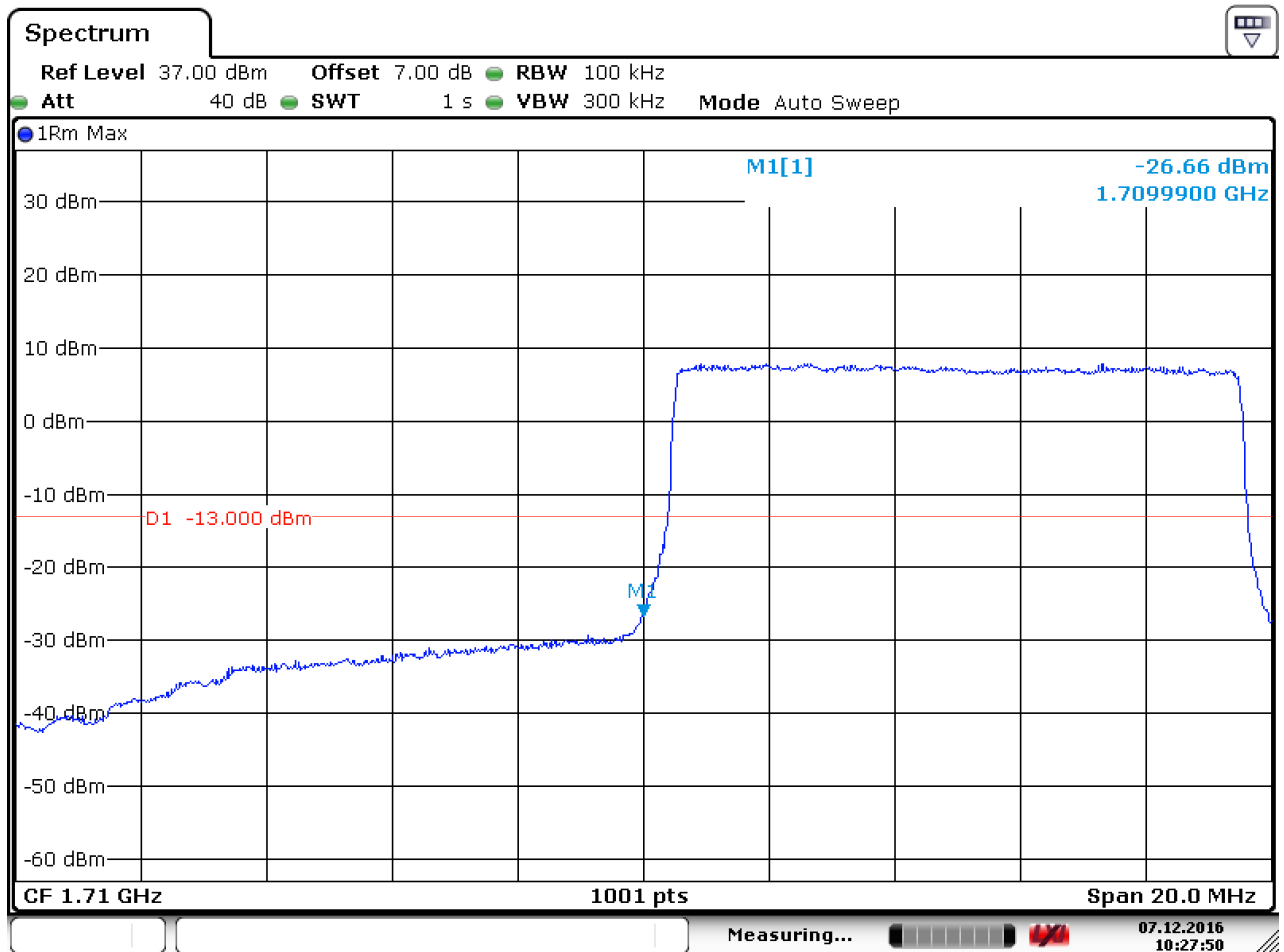
5.1.1.7.1.1 Test RB=1RB



Date: 7.DEC.2016 10:28:24



5.1.1.7.1.2 Test RB=50RB

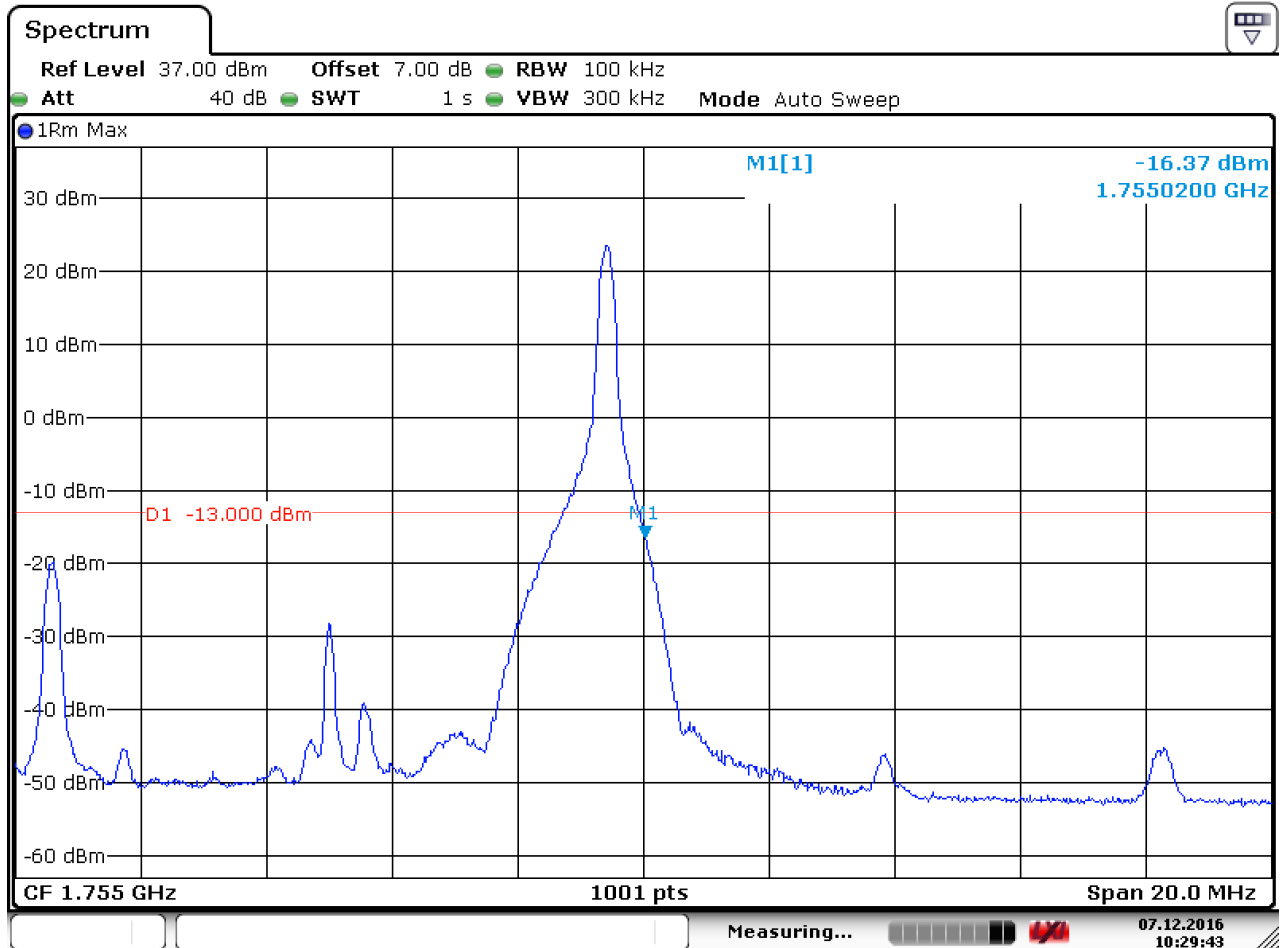


Date: 7.DEC.2016 10:27:50



5.1.1.7.2 Test Channel = HCH

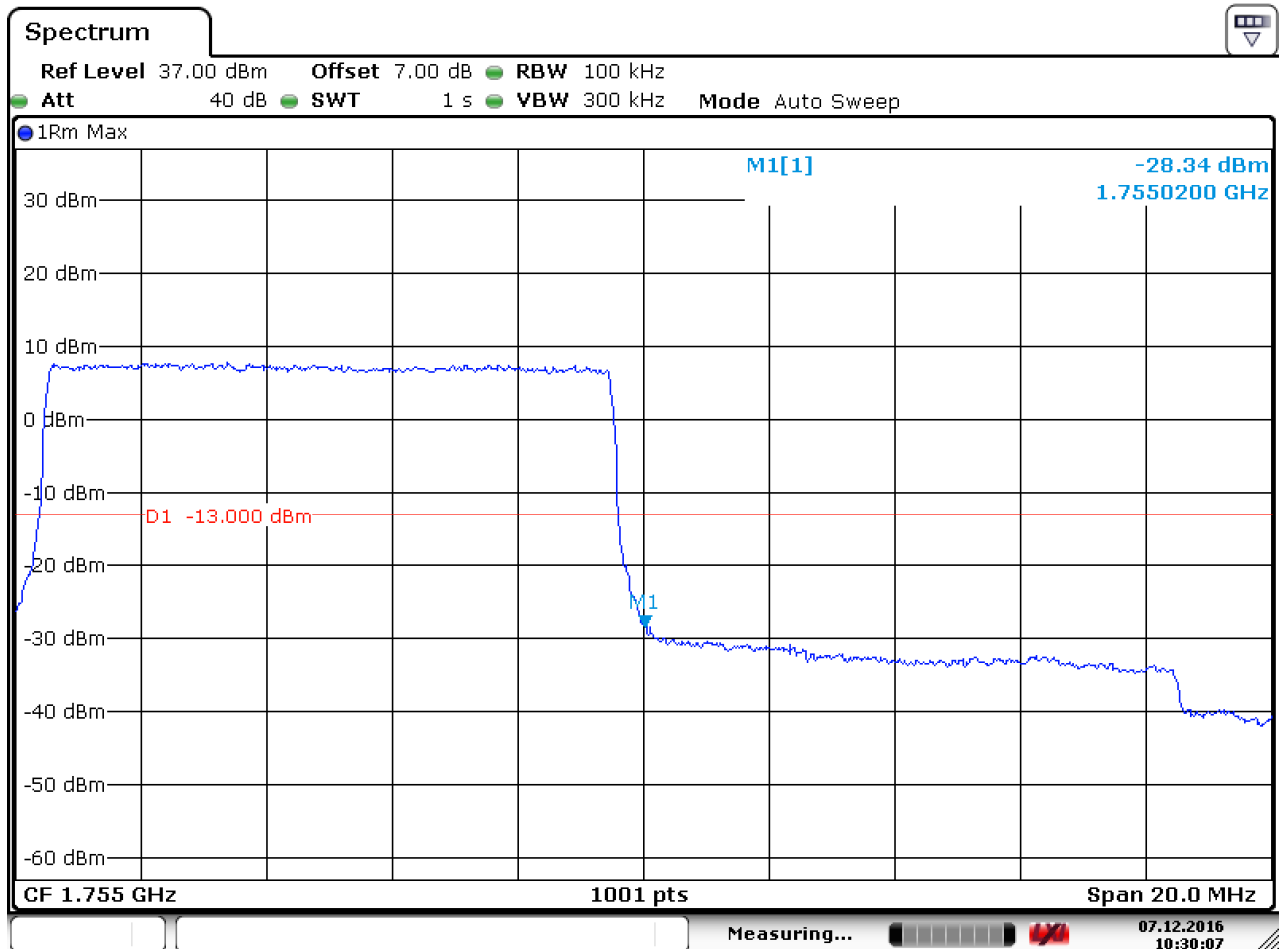
5.1.1.7.2.1 Test RB=1RB



Date: 7.DEC.2016 10:29:44



5.1.1.7.2.2 Test RB=50RB



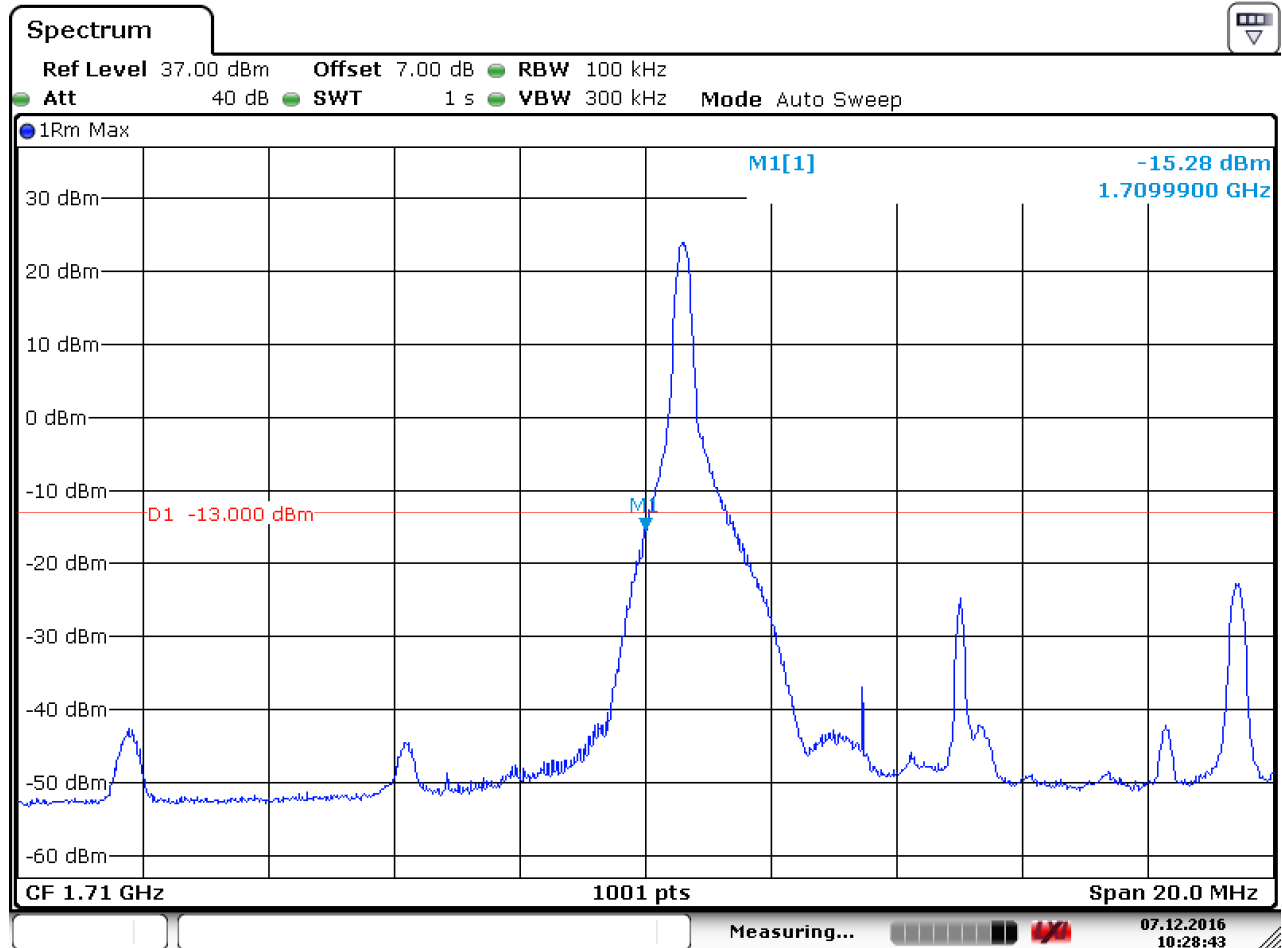
Date: 7.DEC.2016 10:30:07



5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

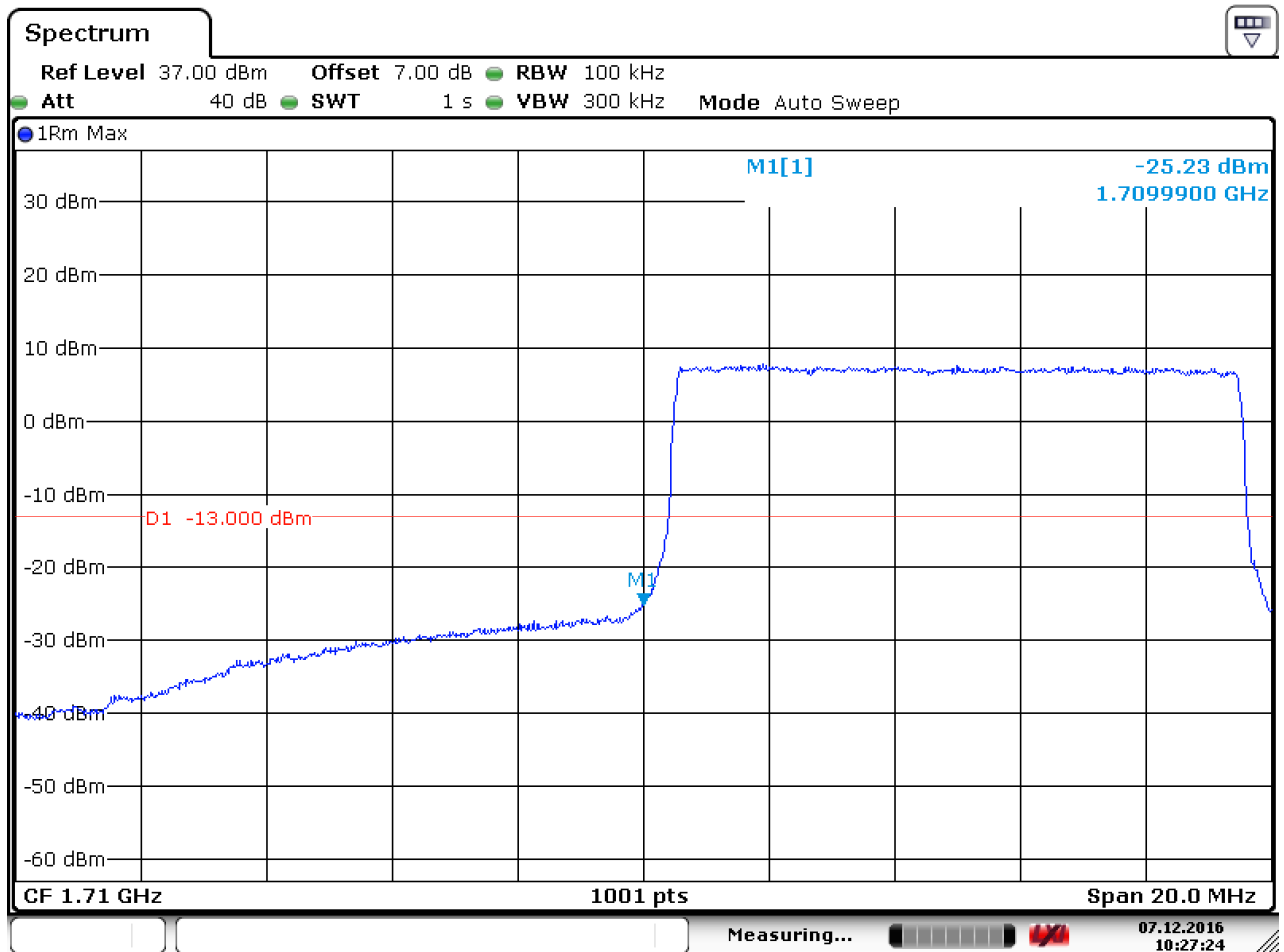
5.1.1.8.1.1 Test RB=1RB



Date: 7.DEC.2016 10:28:44



5.1.1.8.1.2 Test RB=50RB

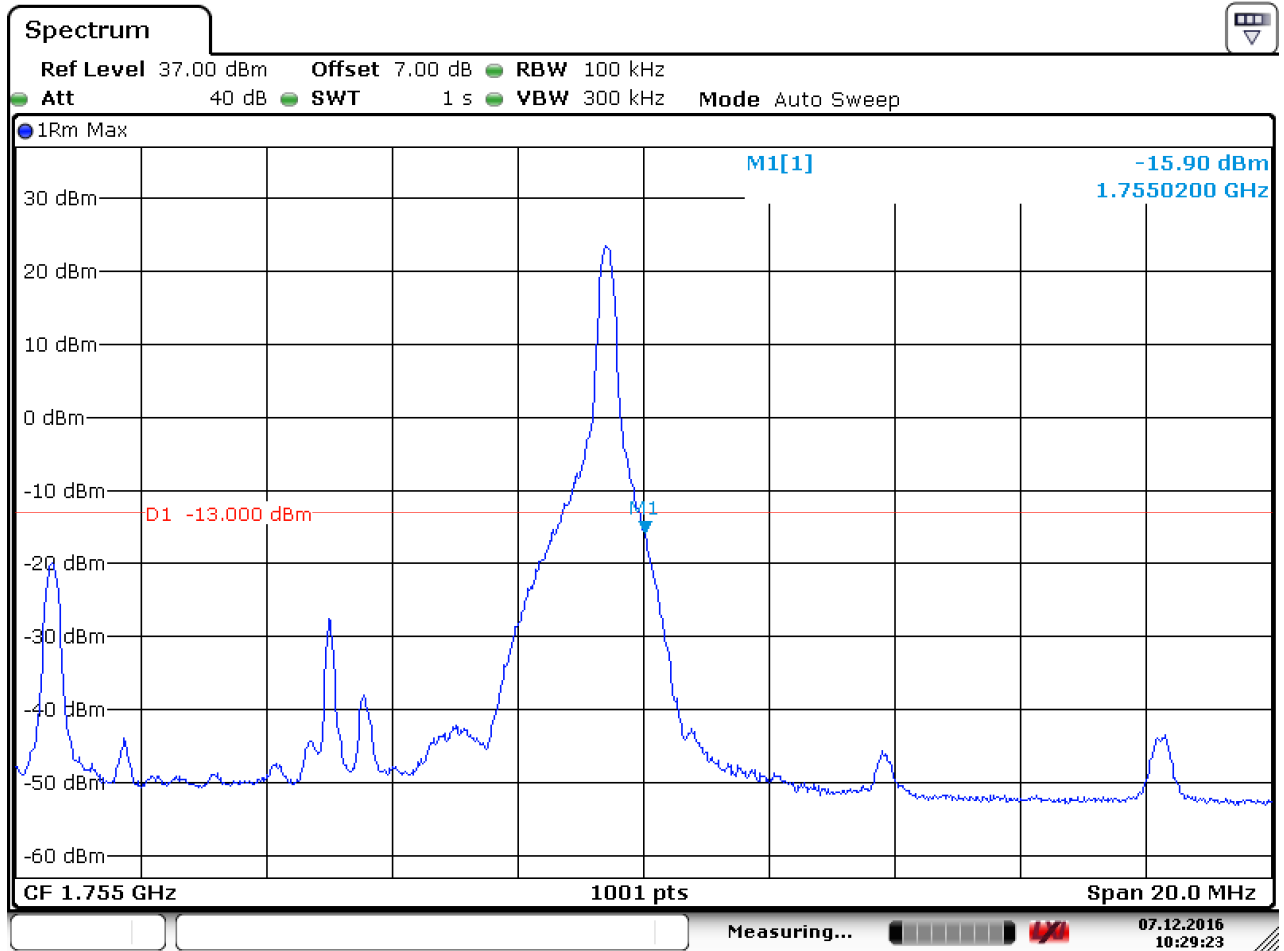


Date: 7.DEC.2016 10:27:25



5.1.1.8.2 Test Channel = HCH

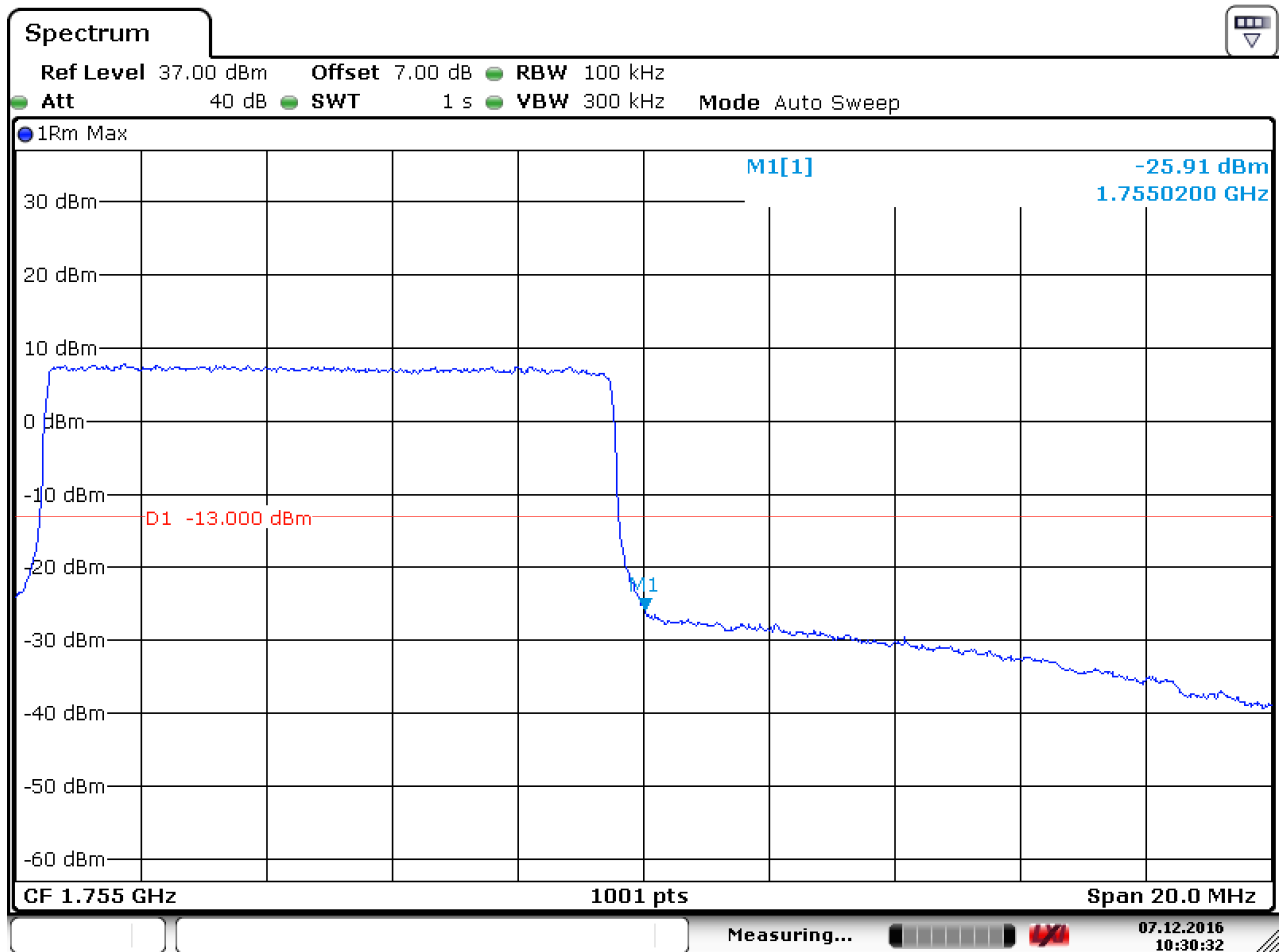
5.1.1.8.2.1 Test RB=1RB



Date: 7.DEC.2016 10:29:23



5.1.1.8.2.2 Test RB=50RB



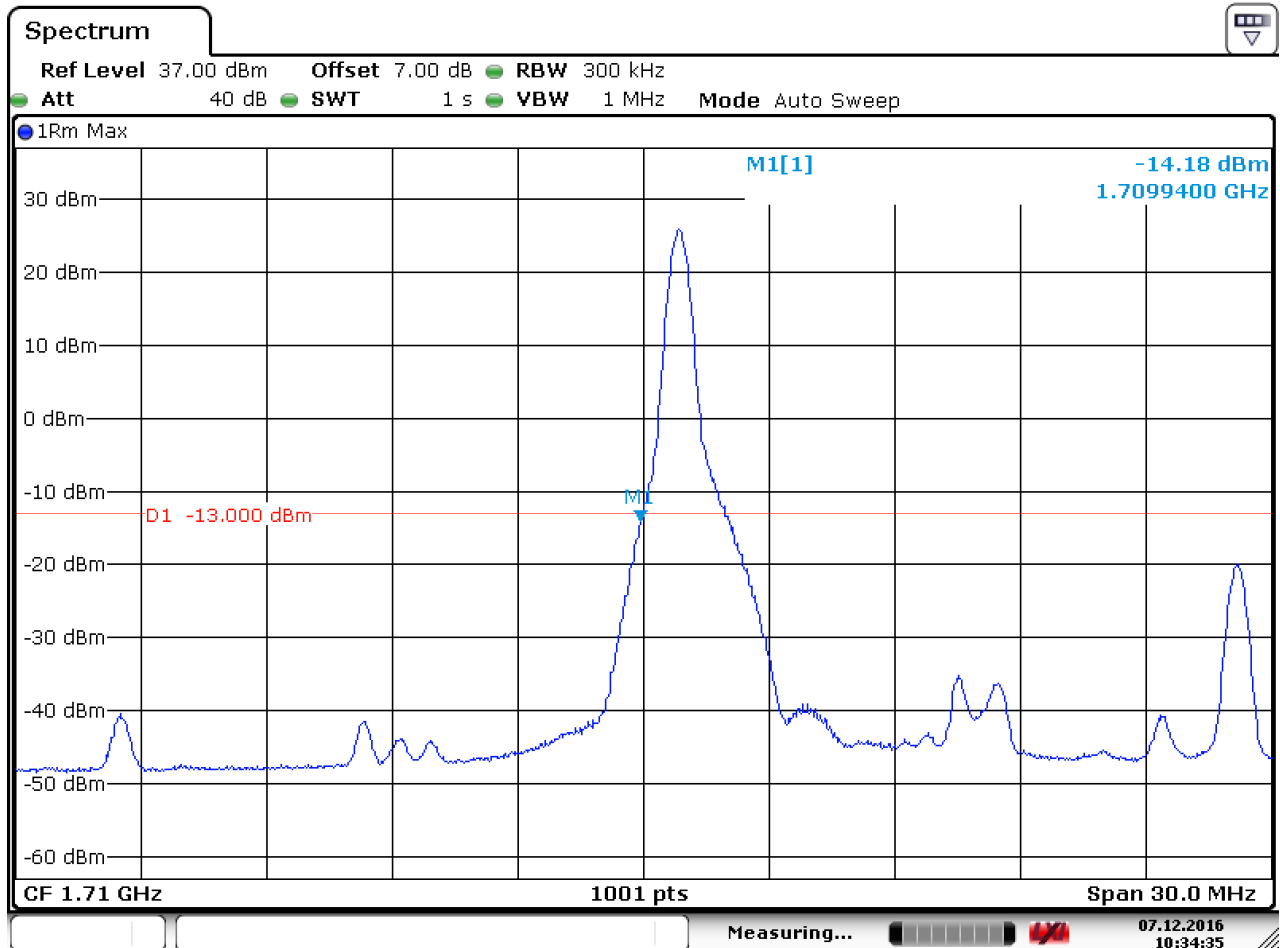
Date: 7.DEC.2016 10:30:32



5.1.1.9 Test Mode = LTE/TM1 15MHz

5.1.1.9.1 Test Channel = LCH

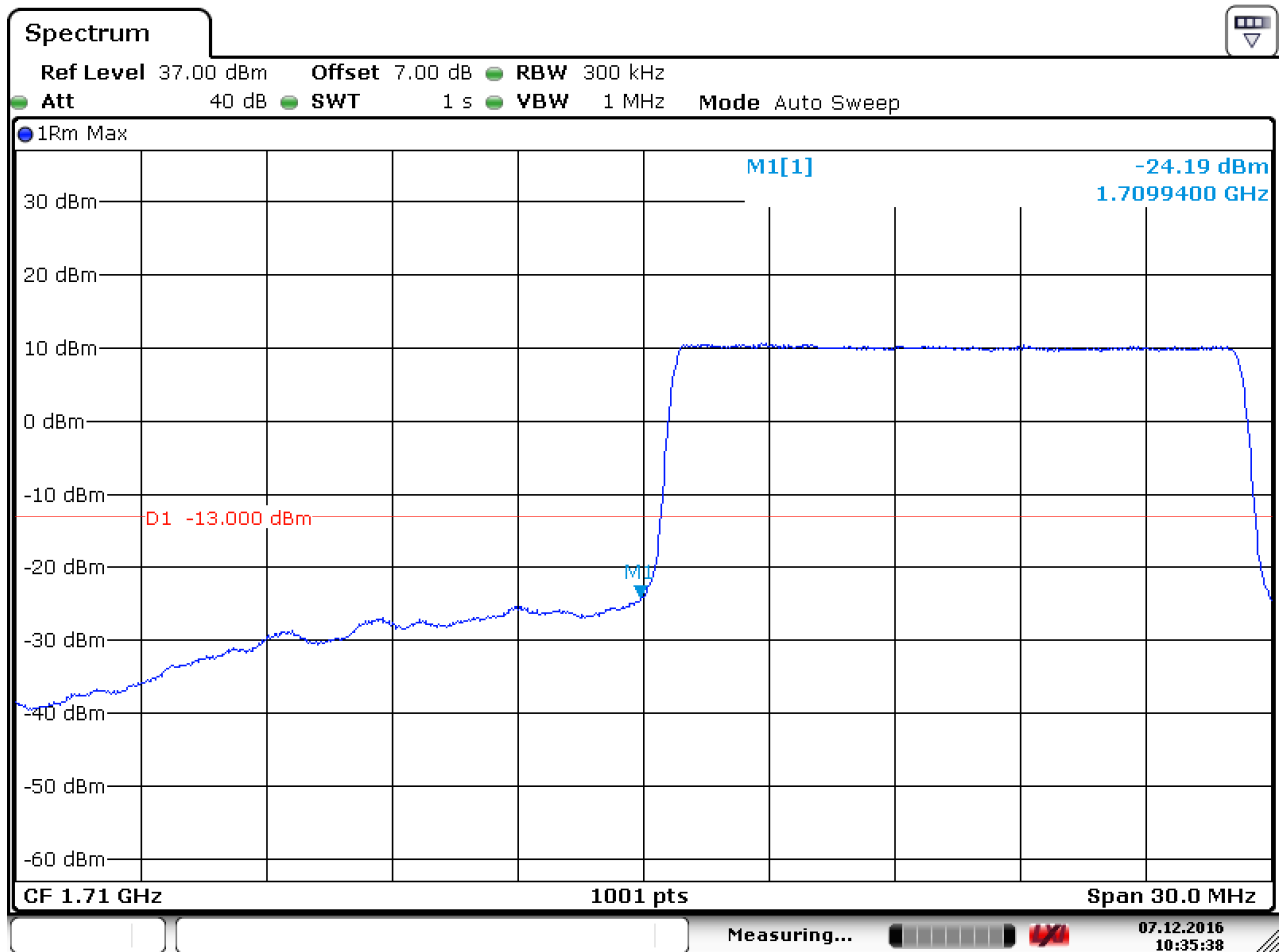
5.1.1.9.1.1 Test RB=1RB



Date: 7.DEC.2016 10:34:36



5.1.1.9.1.2 Test RB=75RB

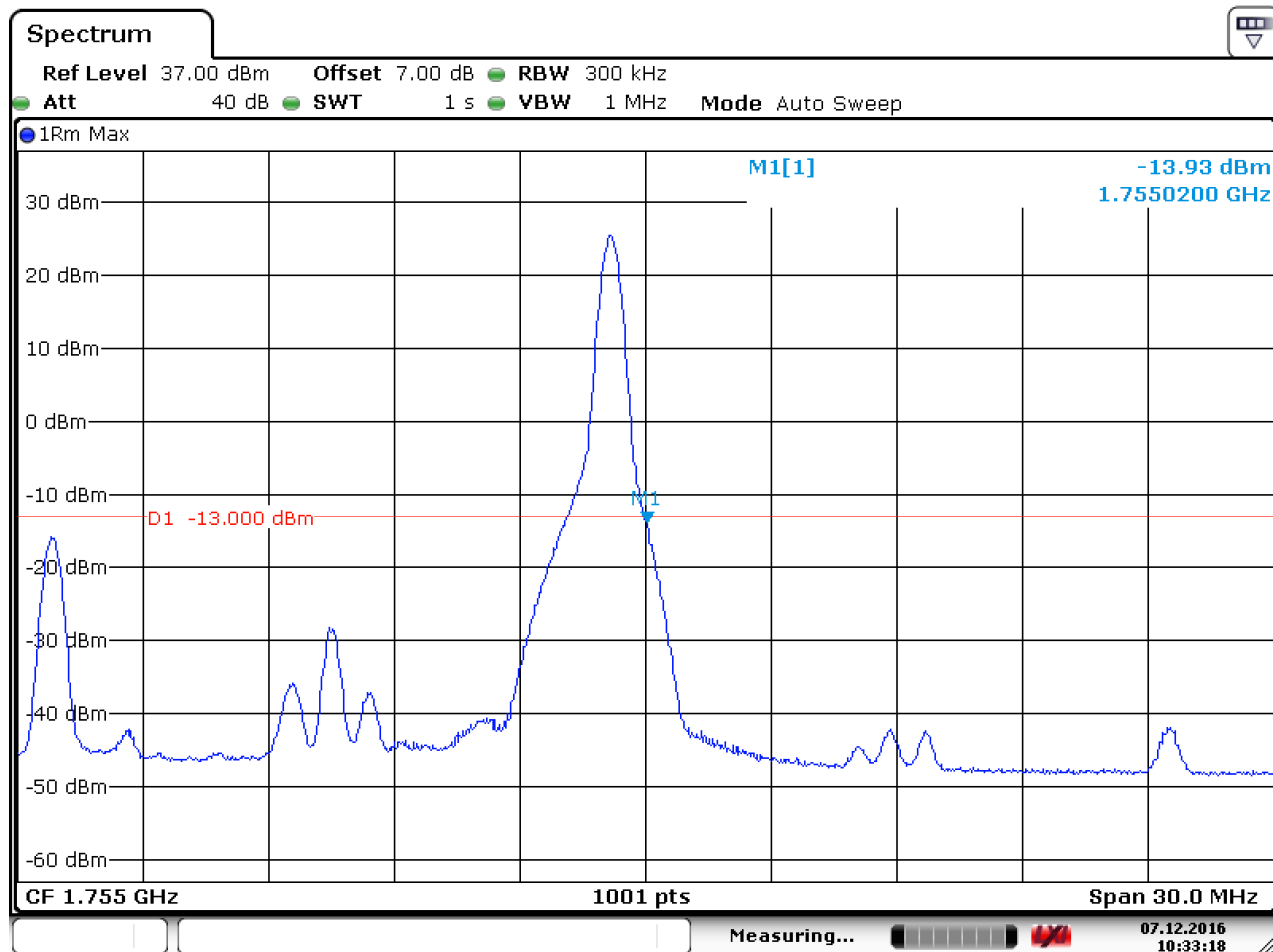


Date: 7.DEC.2016 10:35:39



5.1.1.9.2 Test Channel = HCH

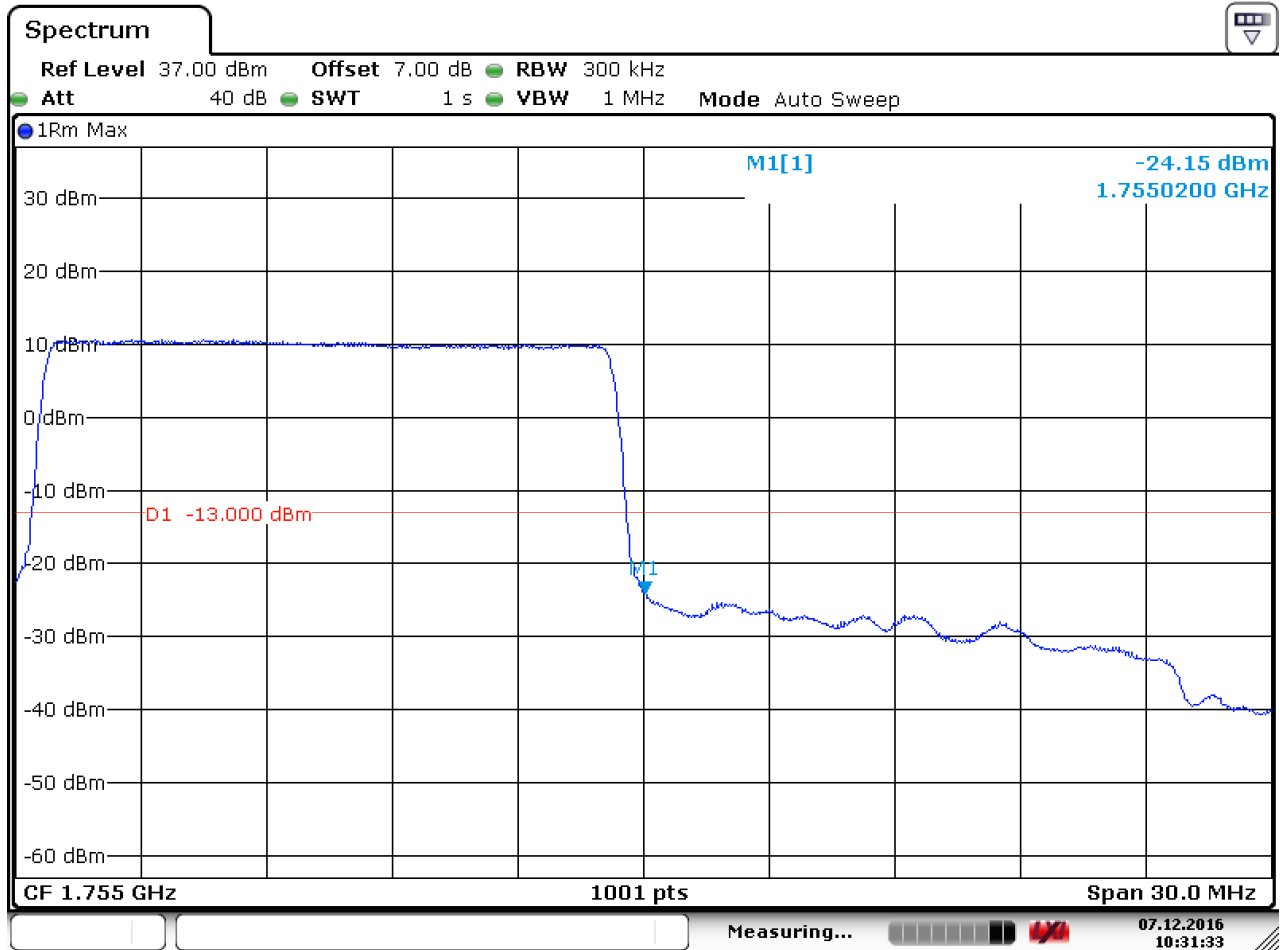
5.1.1.9.2.1 Test RB=1RB



Date: 7.DEC.2016 10:33:19



5.1.1.9.2.2 Test RB=75RB



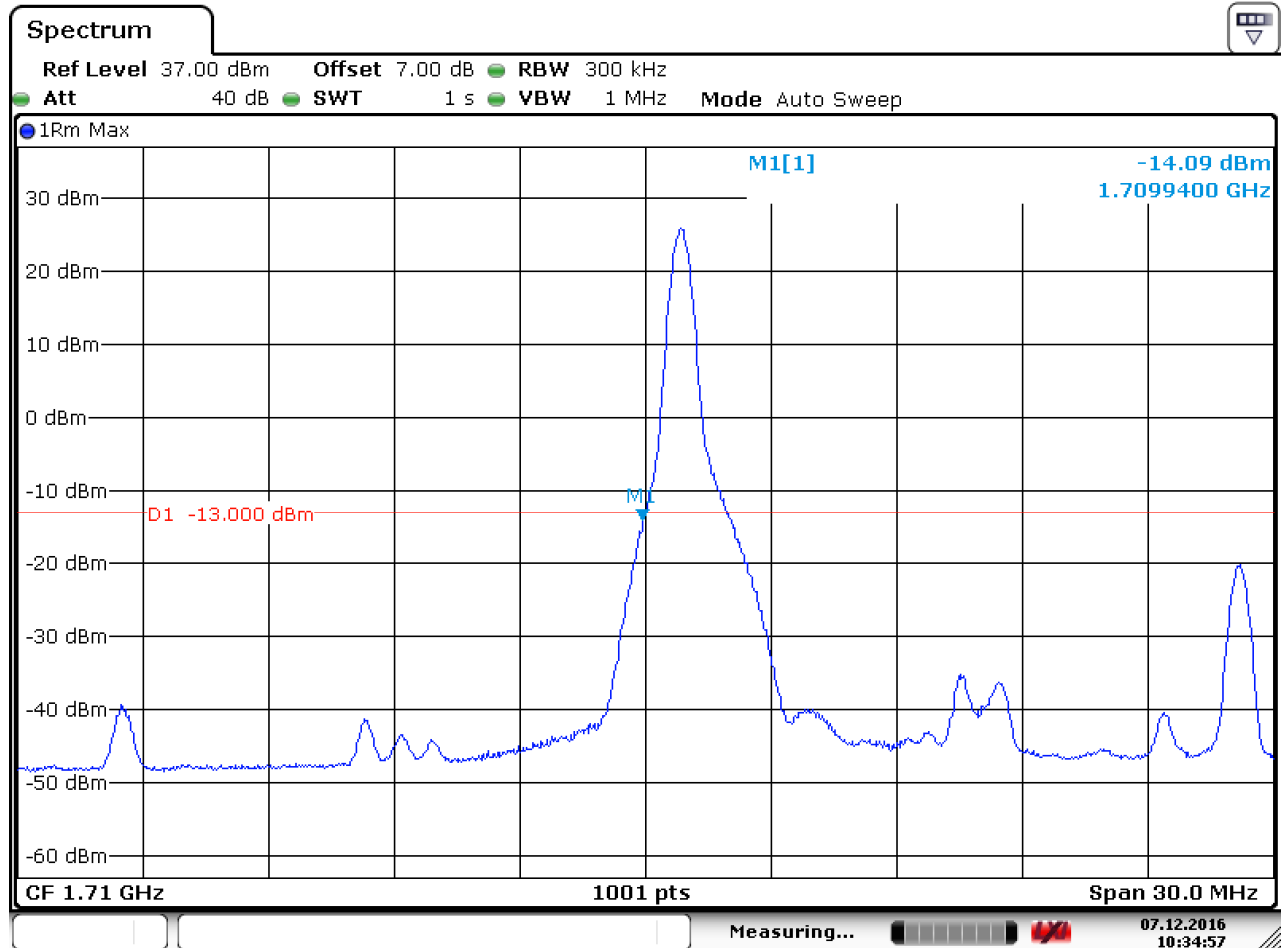
Date: 7.DEC.2016 10:31:33



5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH

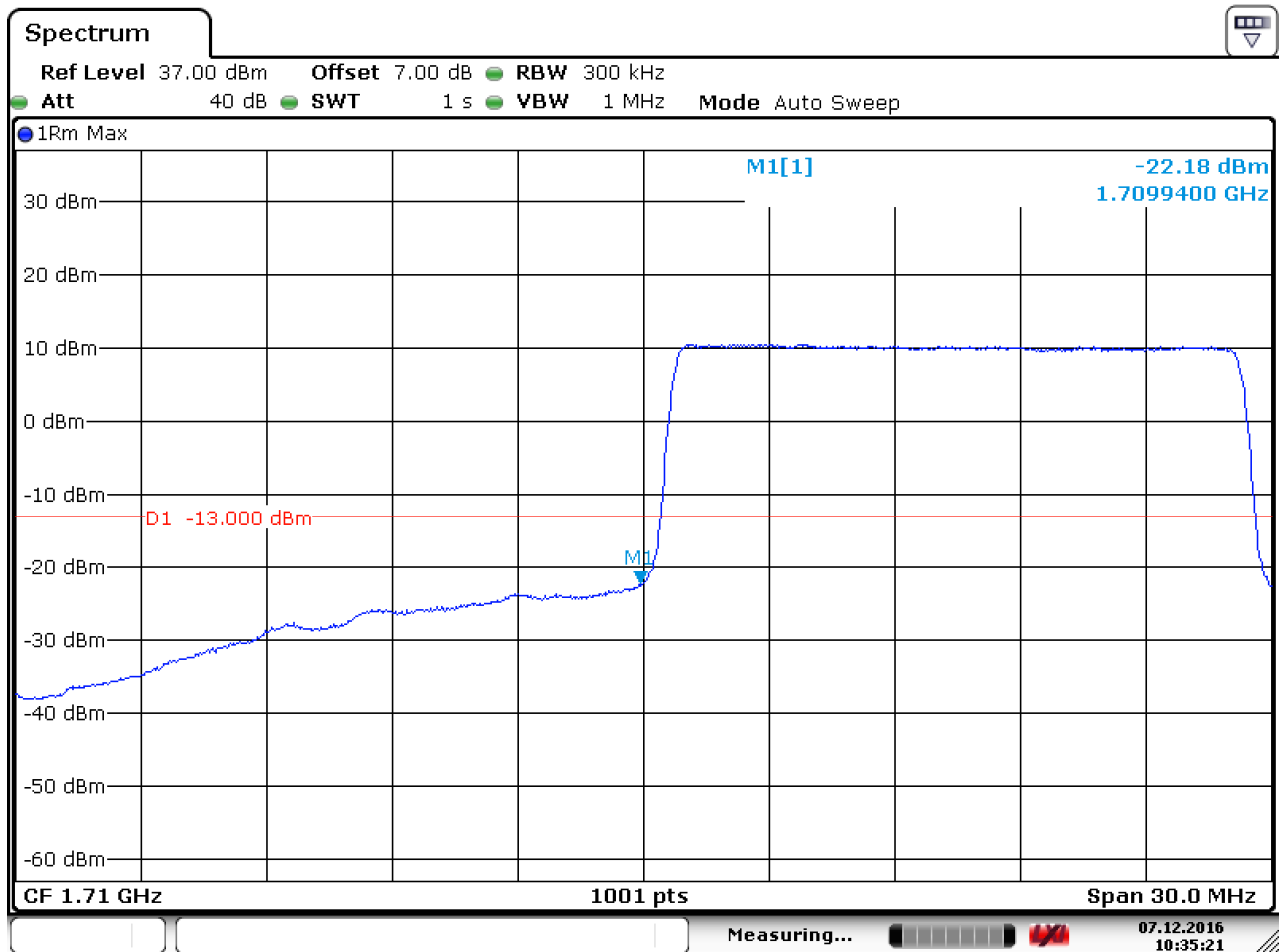
5.1.1.10.1.1 Test RB=1RB



Date: 7.DEC.2016 10:34:57



5.1.1.10.1.2 Test RB=75RB

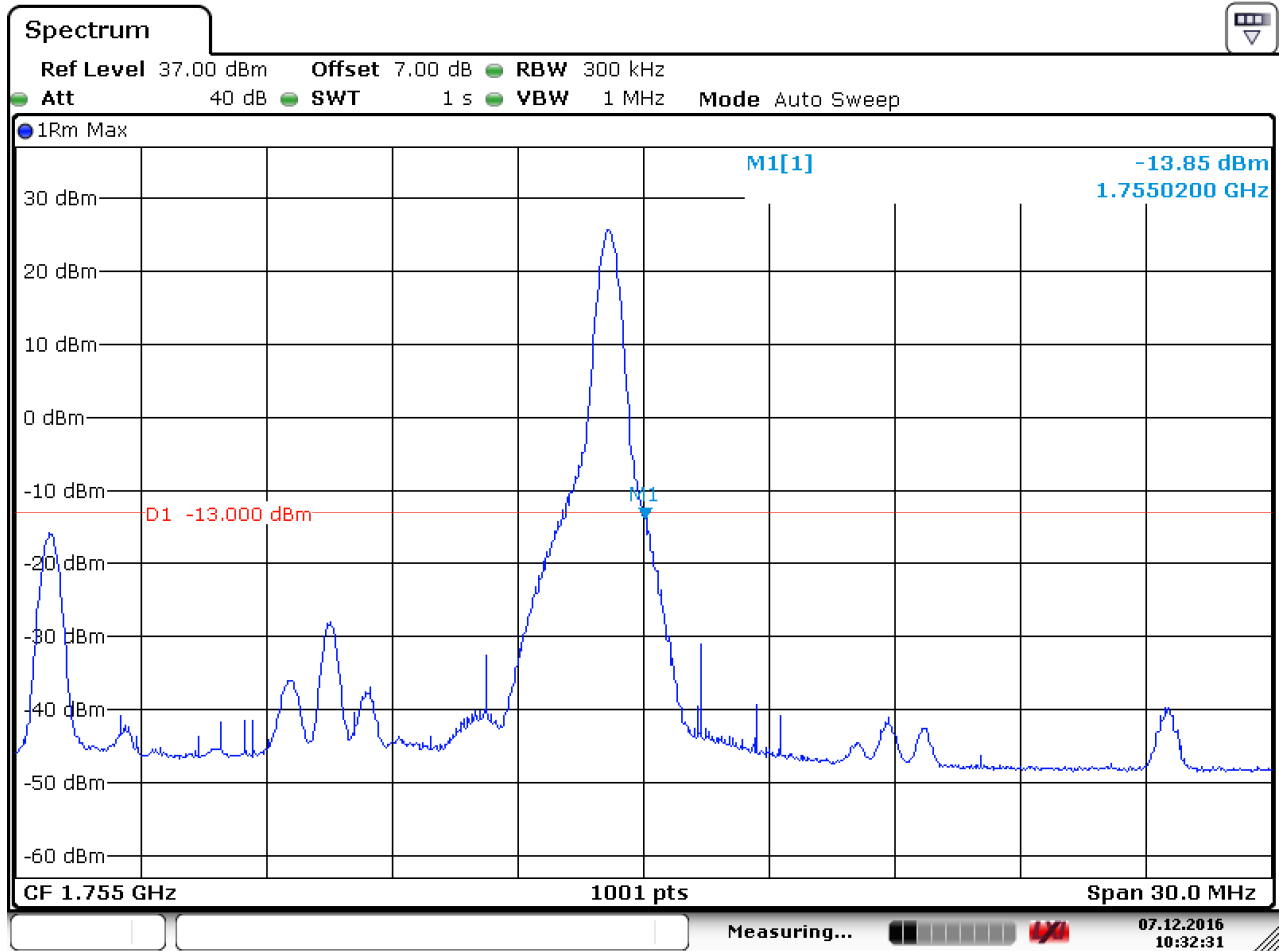


Date: 7.DEC.2016 10:35:21



5.1.1.10.2 Test Channel = HCH

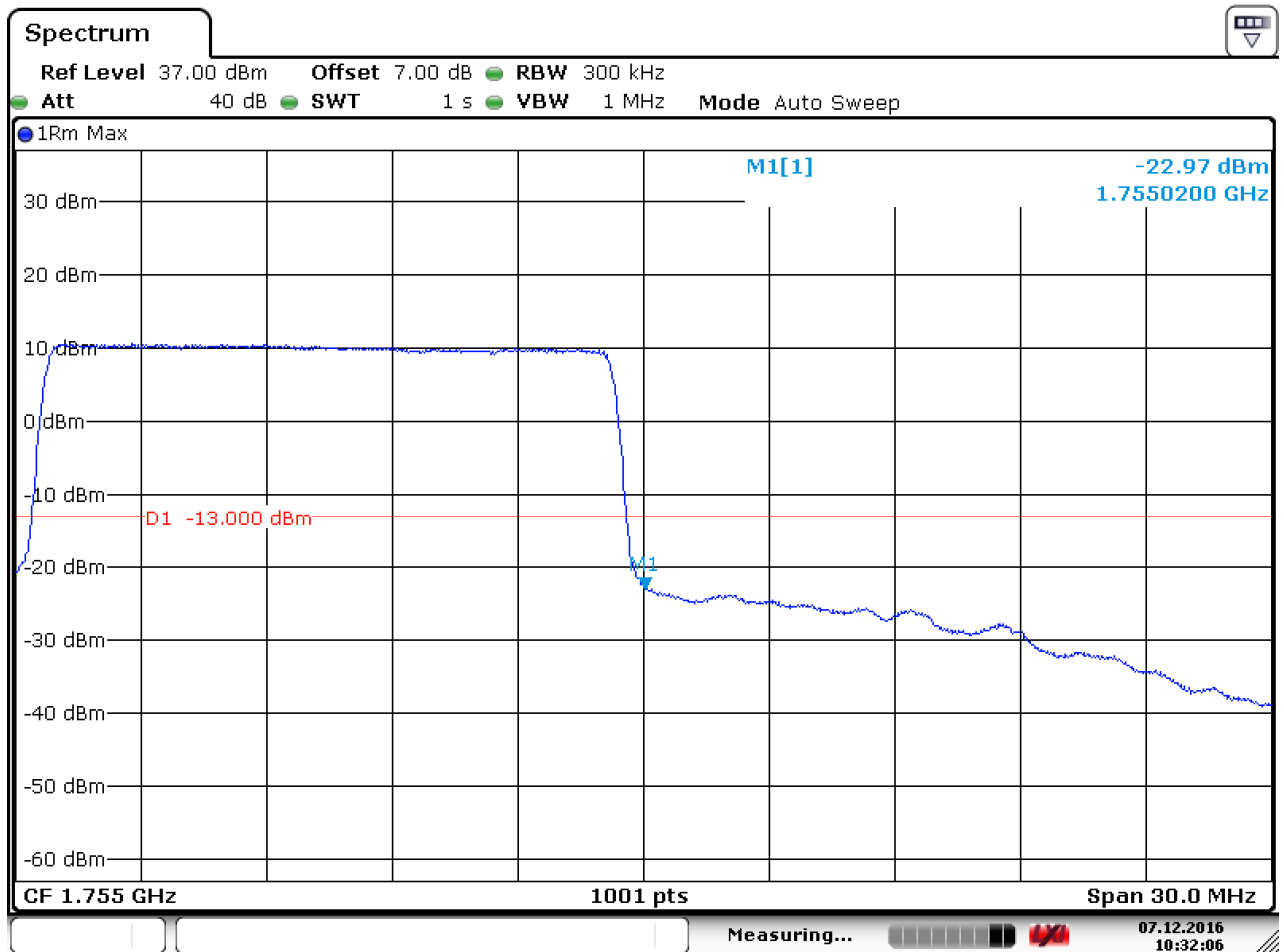
5.1.1.10.2.1 Test RB=1RB



Date: 7.DEC.2016 10:32:31



5.1.1.10.2.2 Test RB=75RB



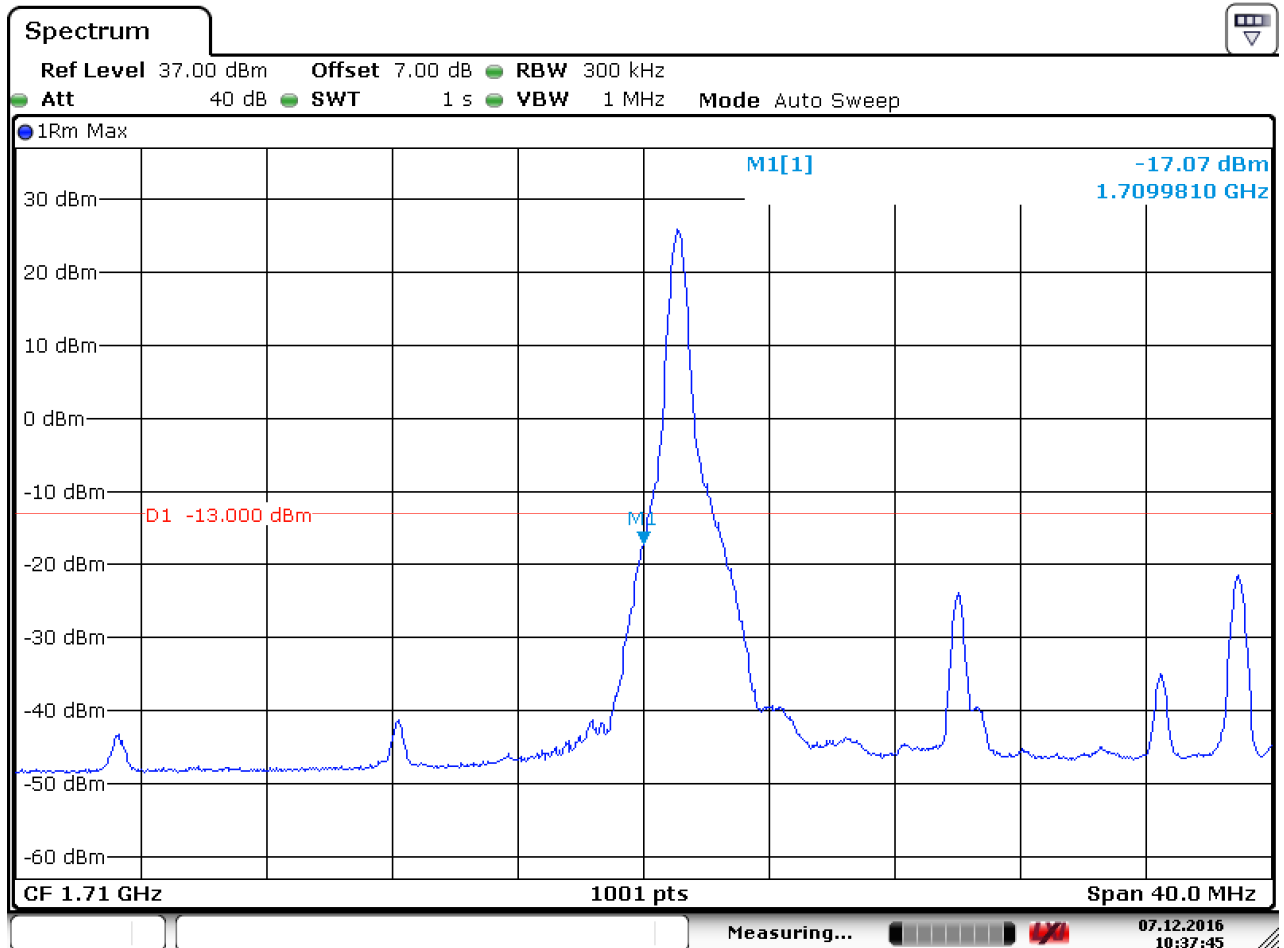
Date: 7.DEC.2016 10:32:06



5.1.1.11 Test Mode = LTE/TM1 20MHz

5.1.1.11.1 Test Channel = LCH

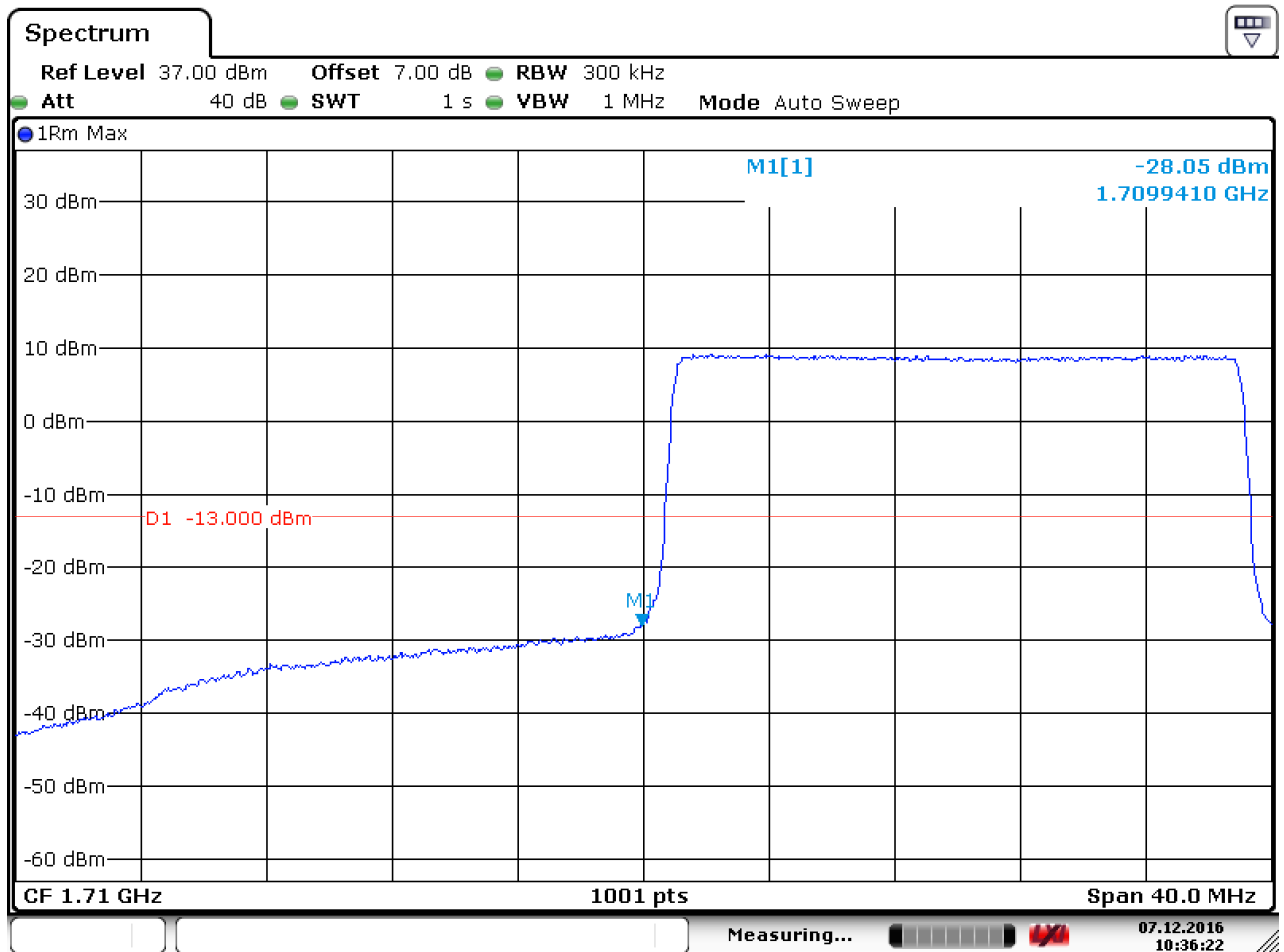
5.1.1.11.1.1 Test RB=1RB



Date: 7.DEC.2016 10:37:46



5.1.11.1.2 Test RB=100RB

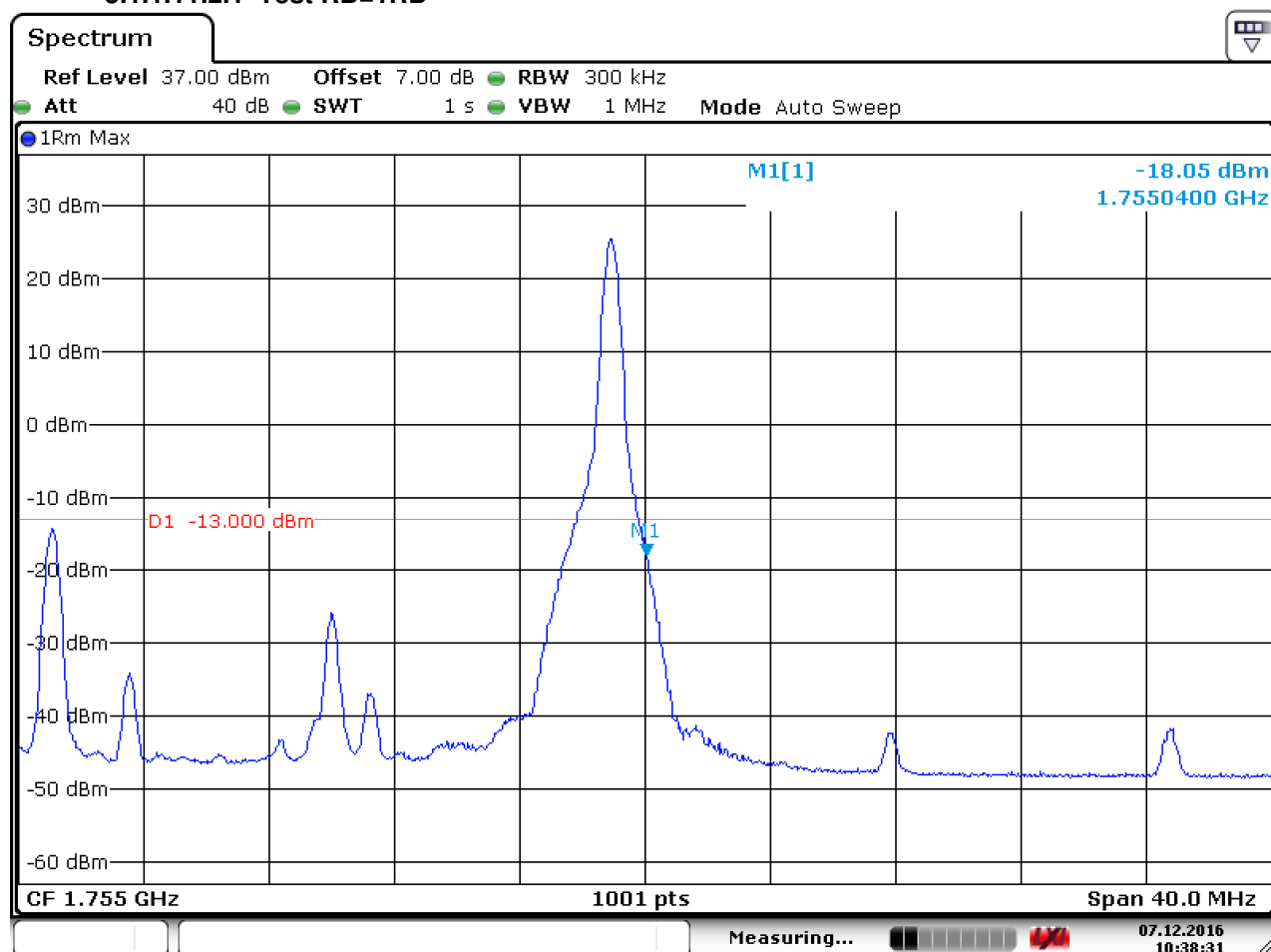


Date: 7.DEC.2016 10:36:22



5.1.1.11.2 Test Channel = HCH

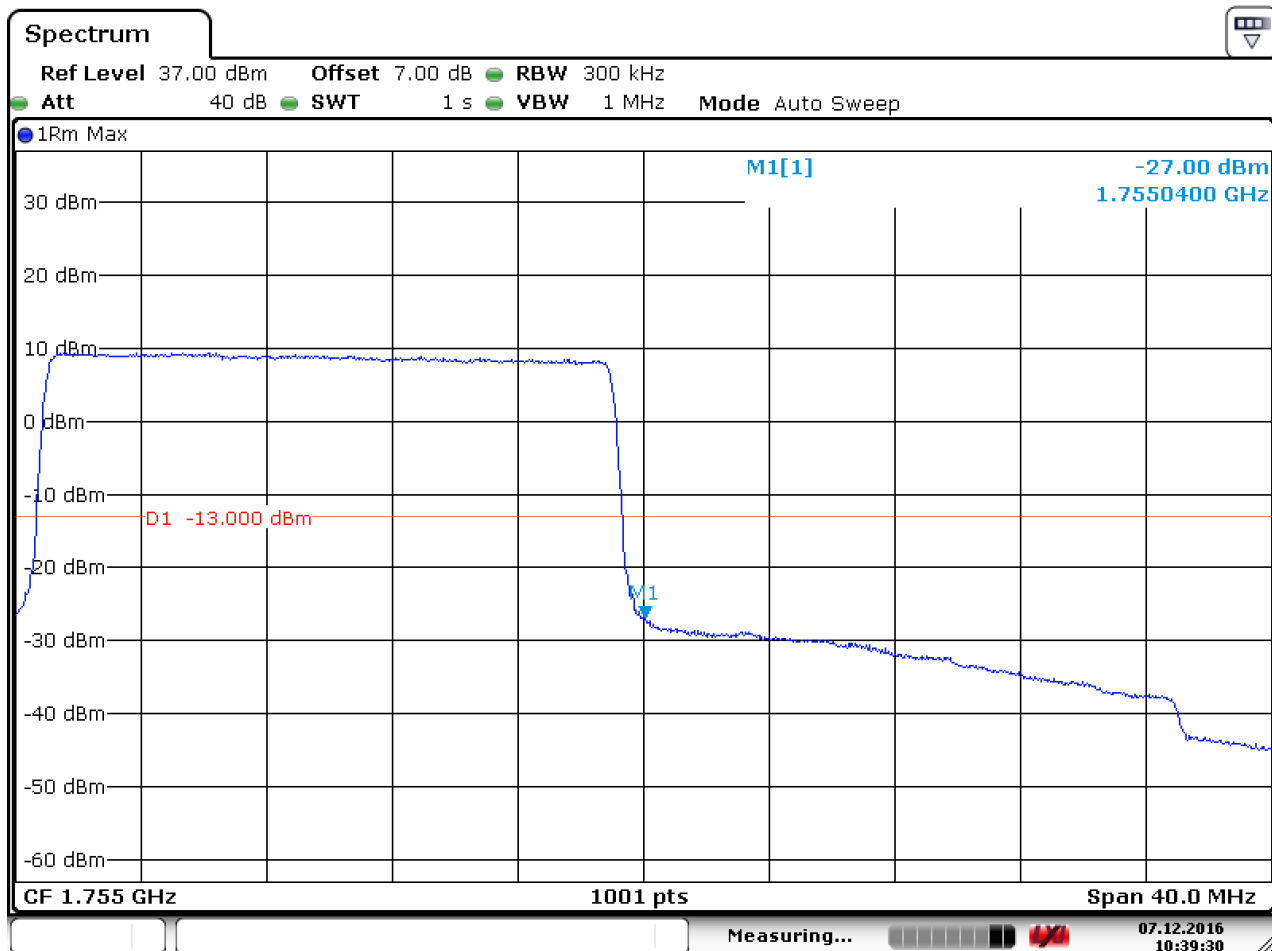
5.1.1.11.2.1 Test RB=1RB



Date: 7.DEC.2016 10:38:31



5.1.1.11.2.2 Test RB=100RB



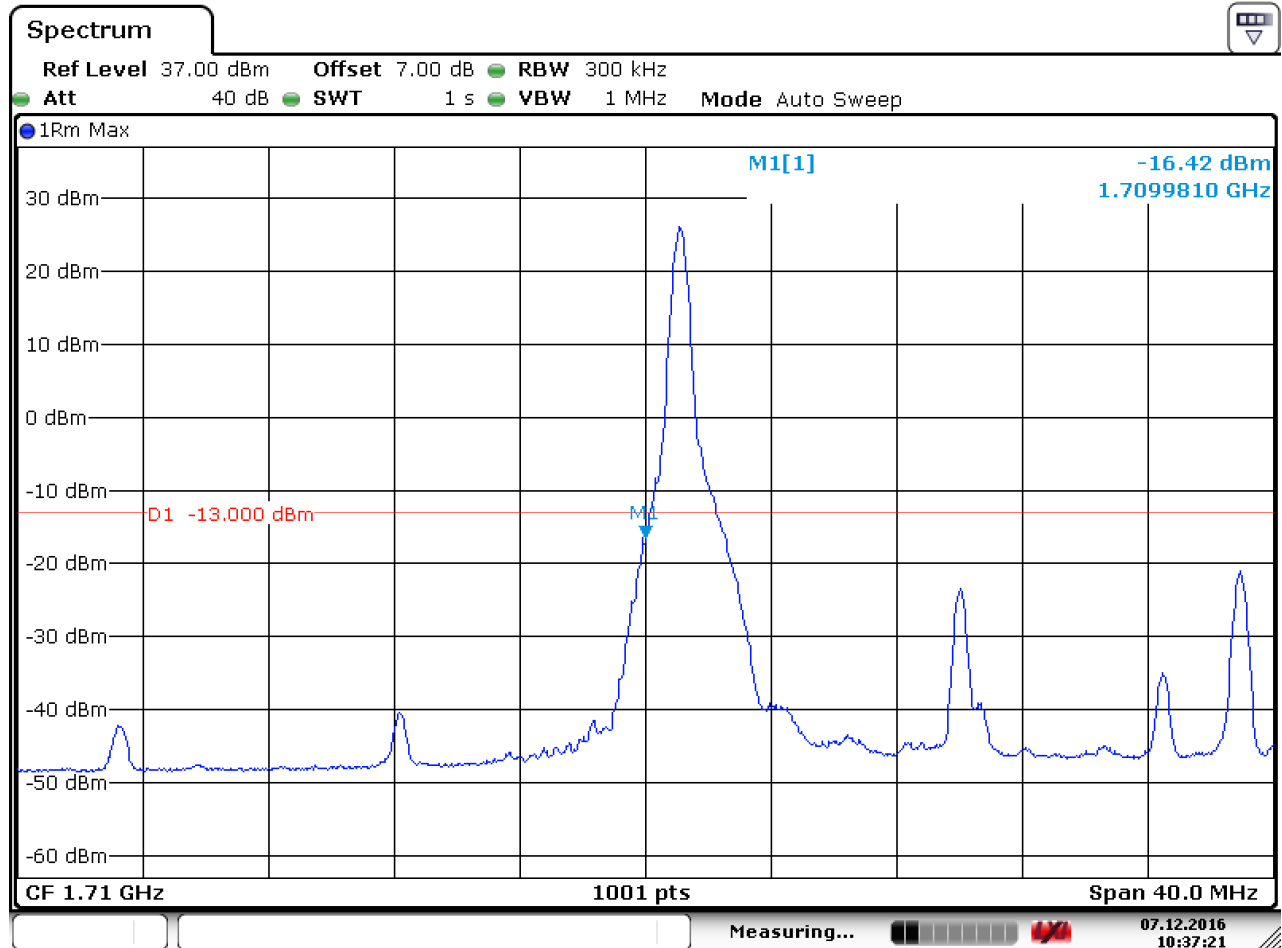
Date: 7.DEC.2016 10:39:31



5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH

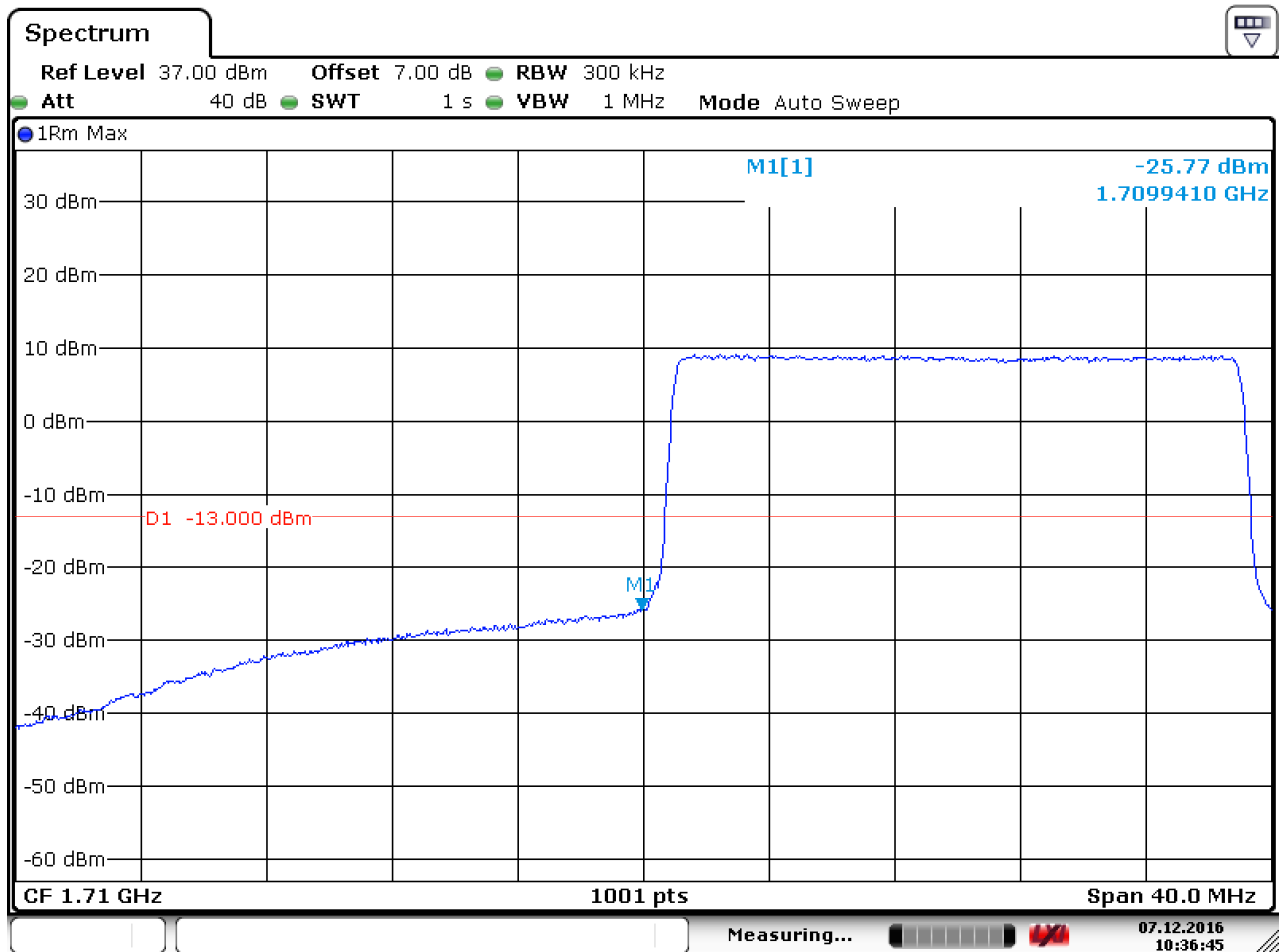
5.1.1.12.1.1 Test RB=1RB



Date: 7.DEC.2016 10:37:21



5.1.12.1.2 Test RB=100RB

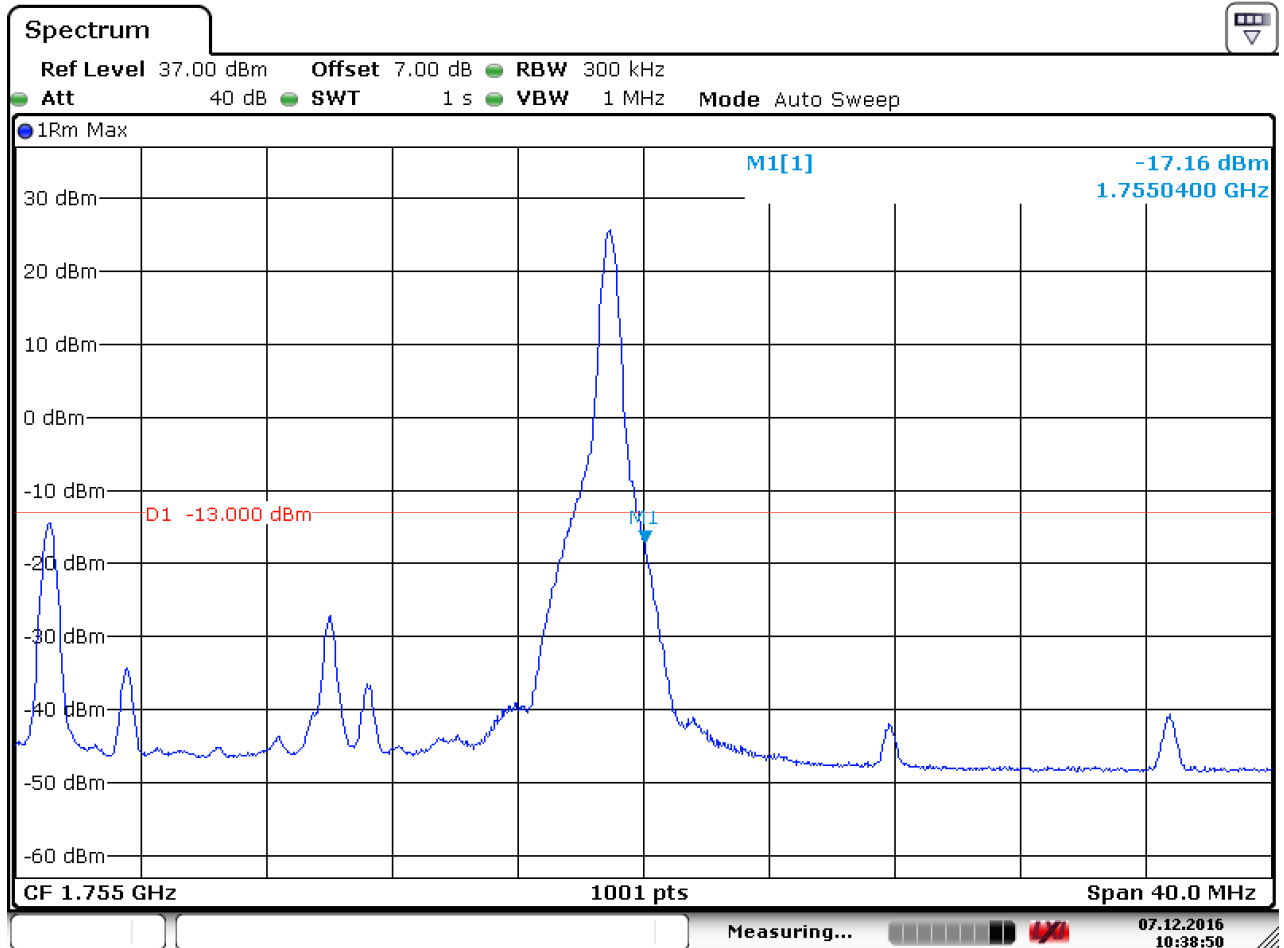


Date: 7.DEC.2016 10:36:46



5.1.1.12.2 Test Channel = HCH

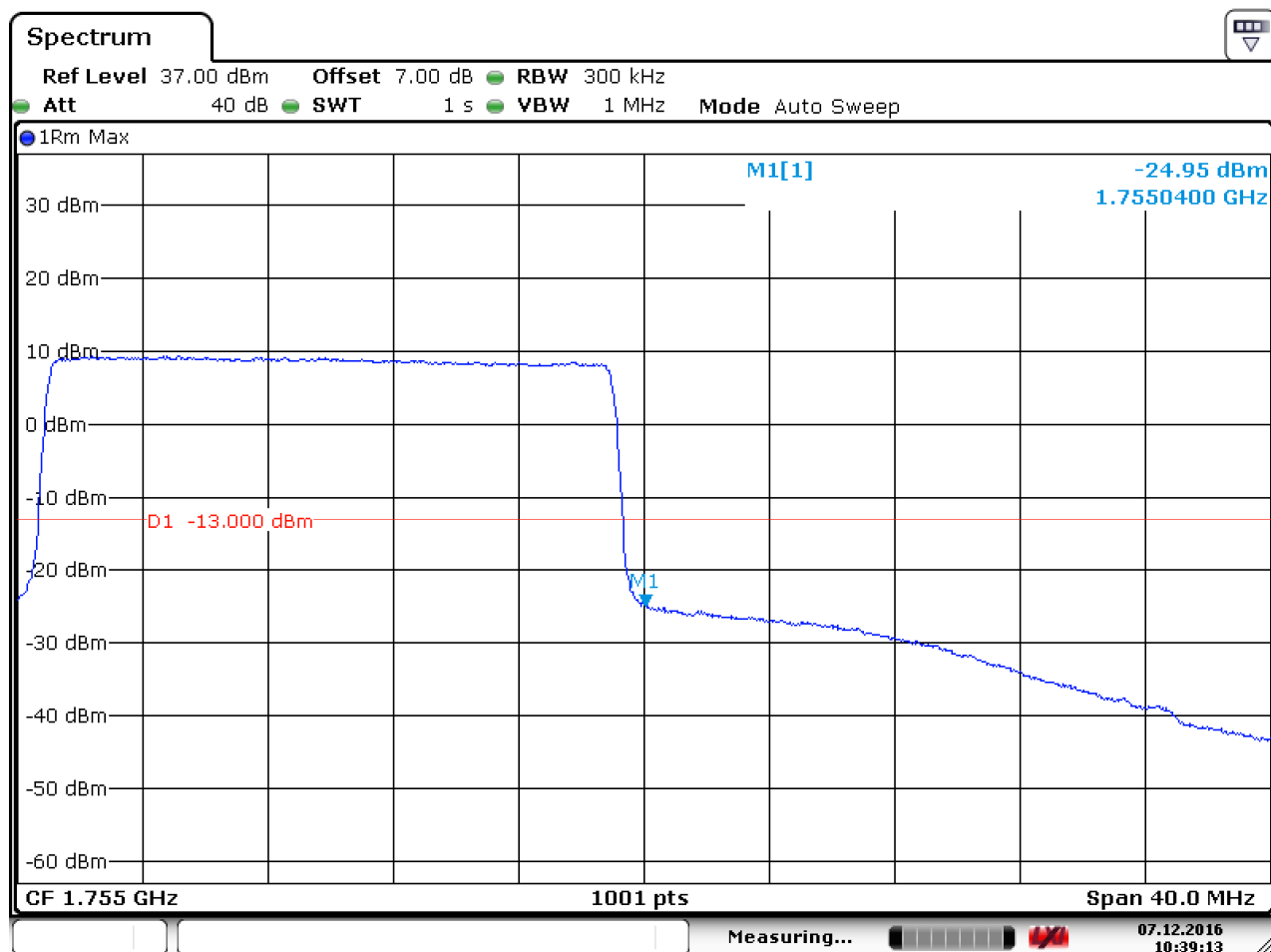
5.1.1.12.2.1 Test RB=1RB



Date: 7.DEC.2016 10:38:50



5.1.1.12.2.2 Test RB=100RB



Date: 7.DEC.2016 10:39:13



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 = $k \cdot (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

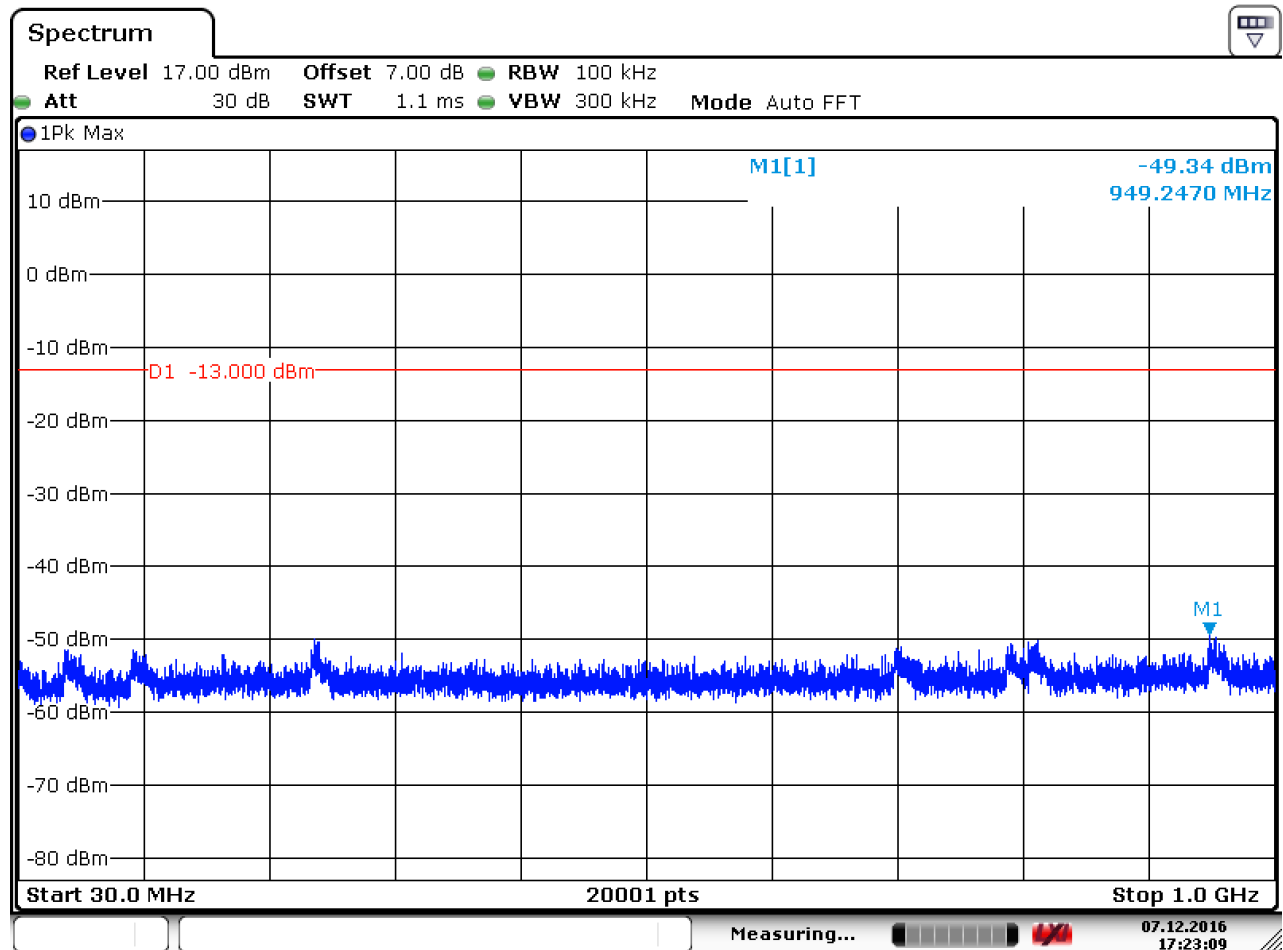
Part I - Test Plots

6.1 For LTE

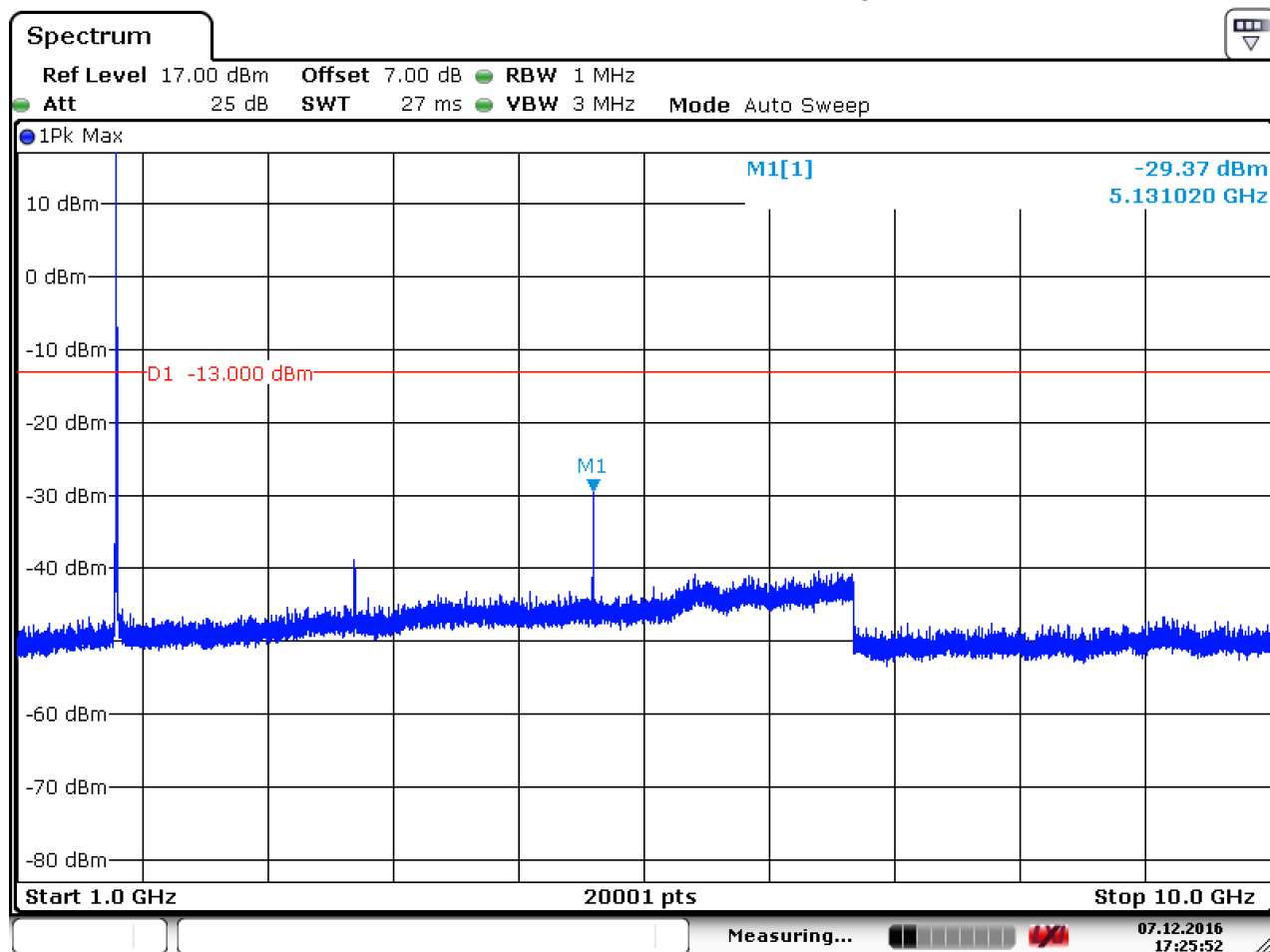
6.1.1 Test Band = LTE band4

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

6.1.1.1.1 Test Channel = LCH



Date: 7.DEC.2016 17:23:10

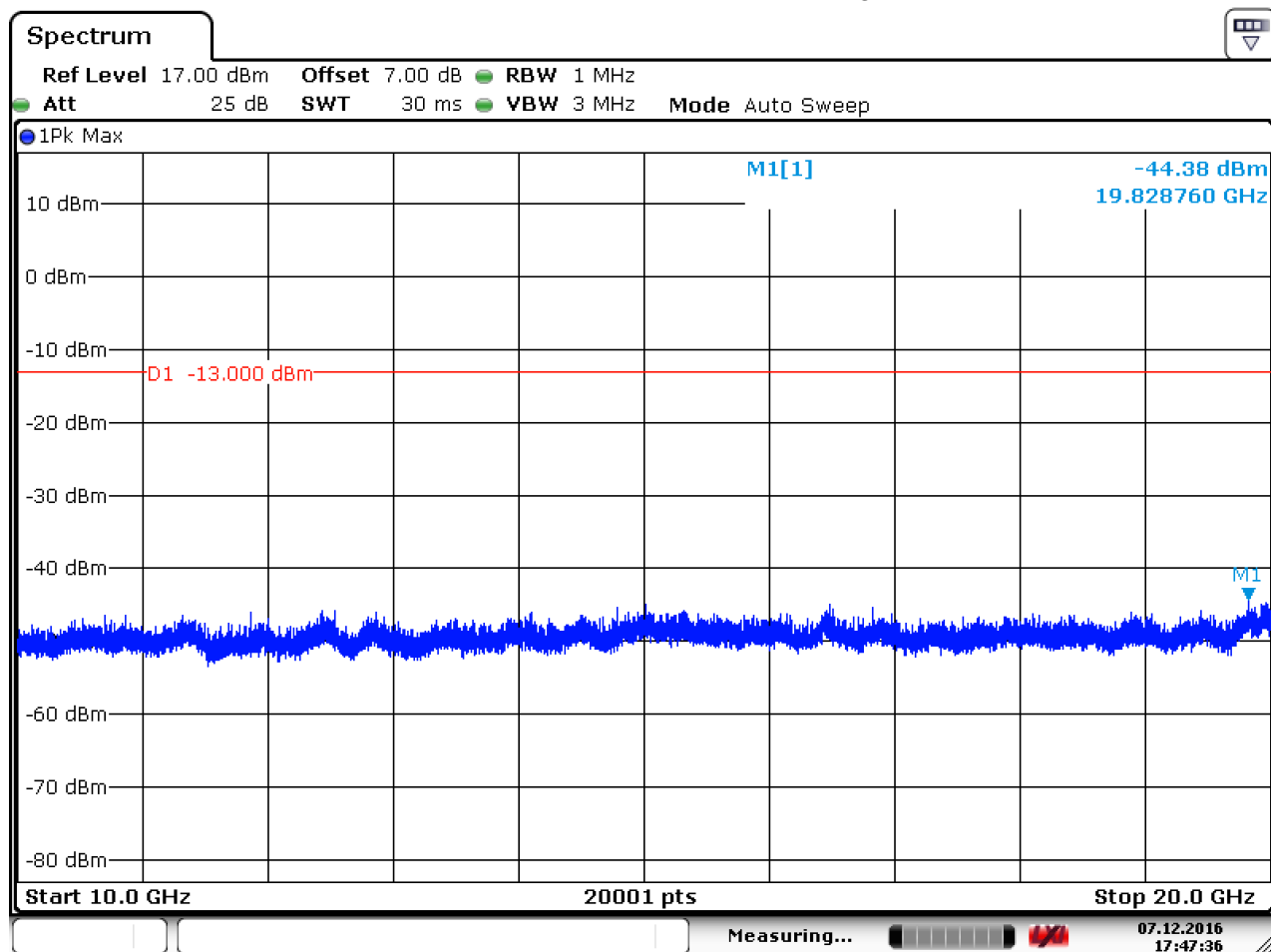


Date: 7.DEC.2016 17:25:52



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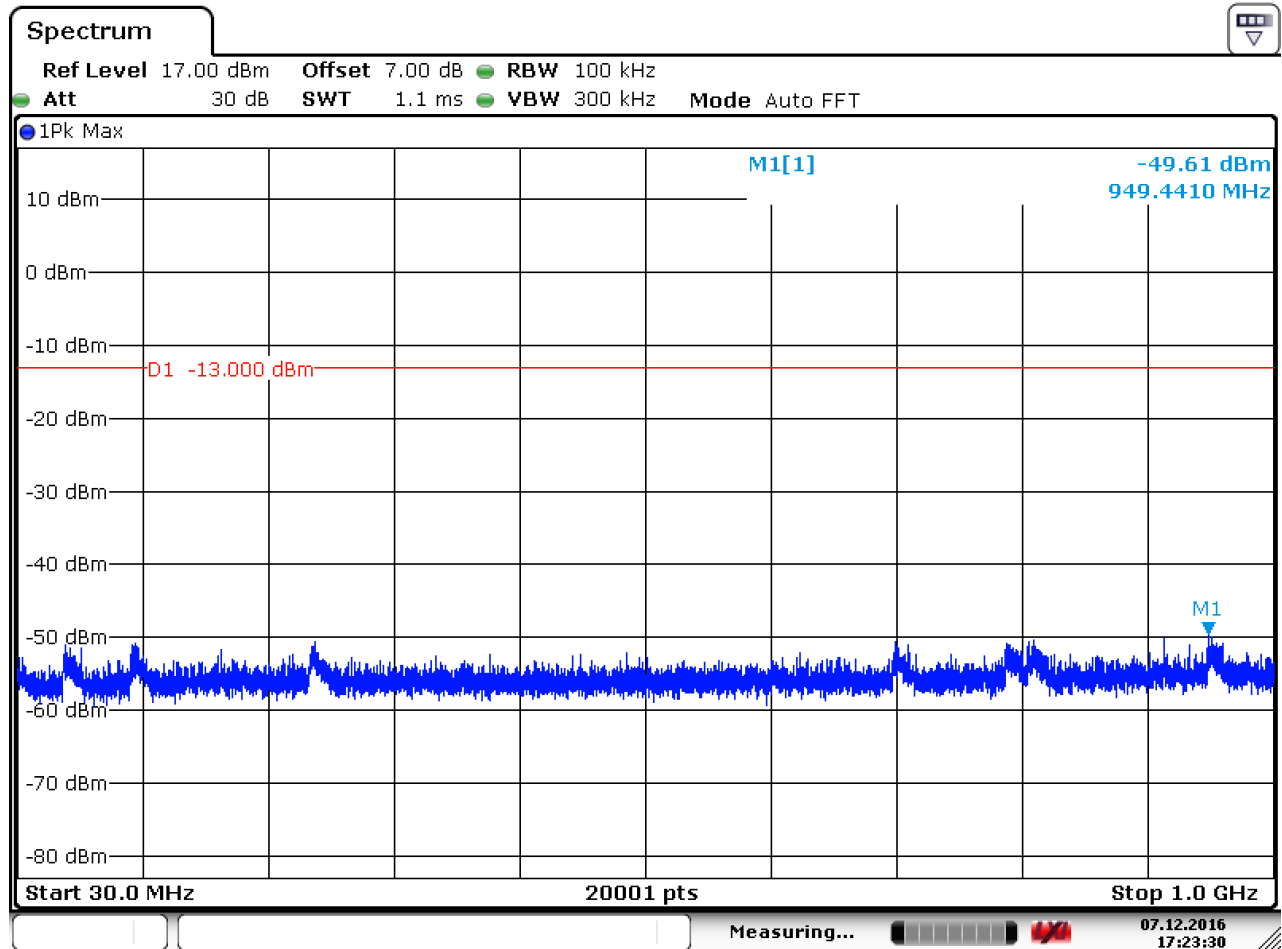


Date: 7.DEC.2016 17:47:36

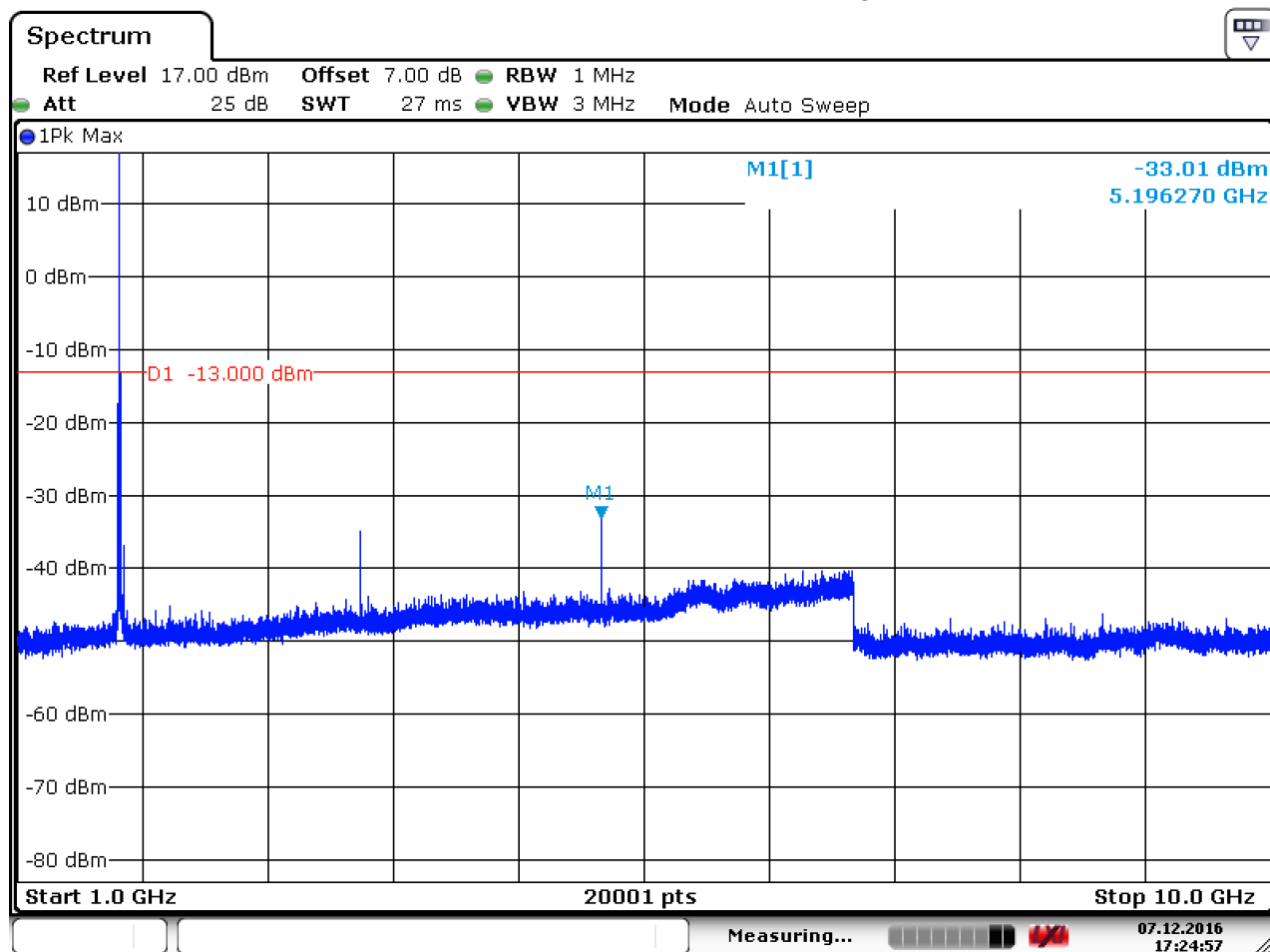
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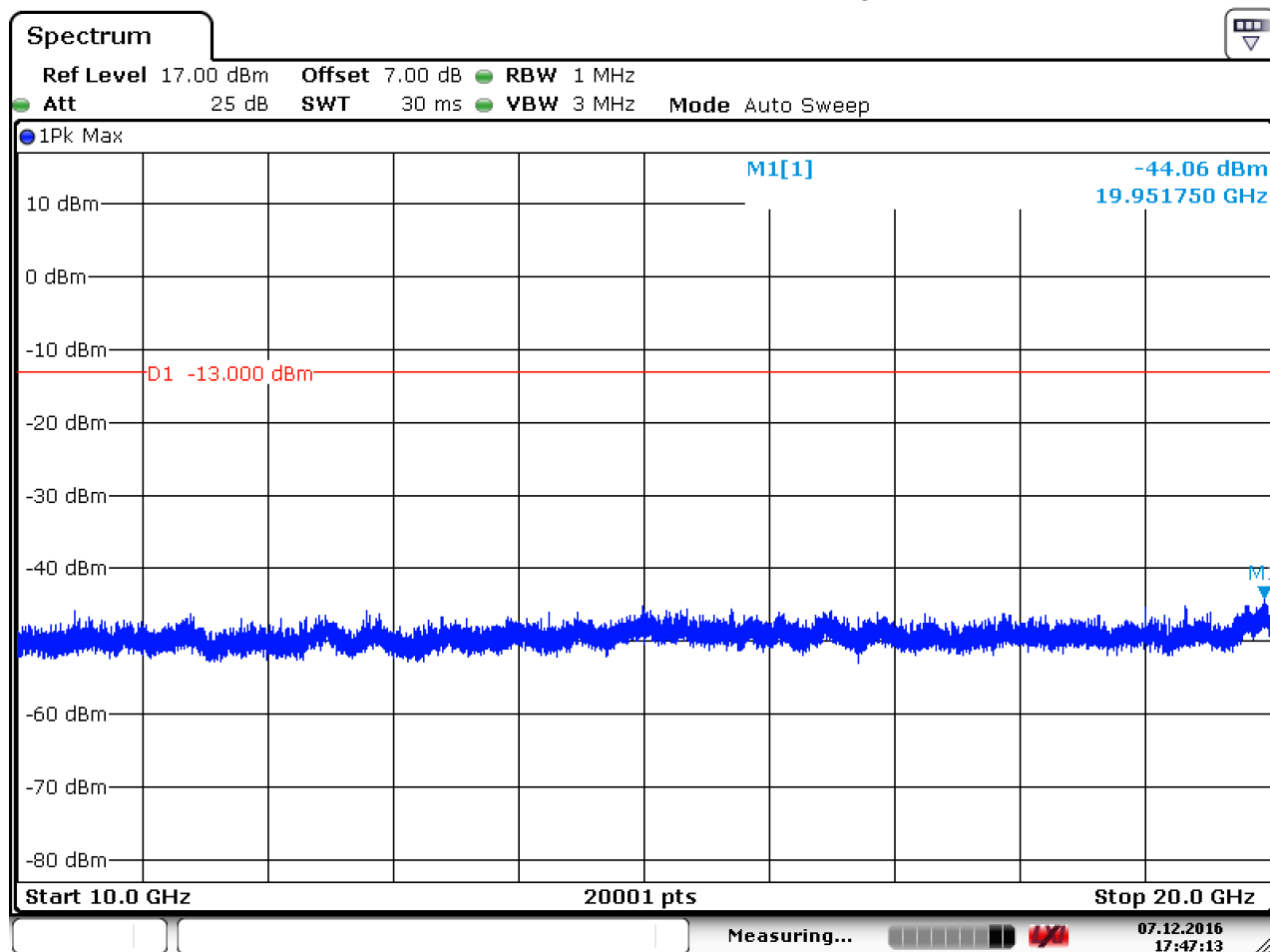
6.1.1.1.2 Test Channel = MCH



Date: 7.DEC.2016 17:23:30



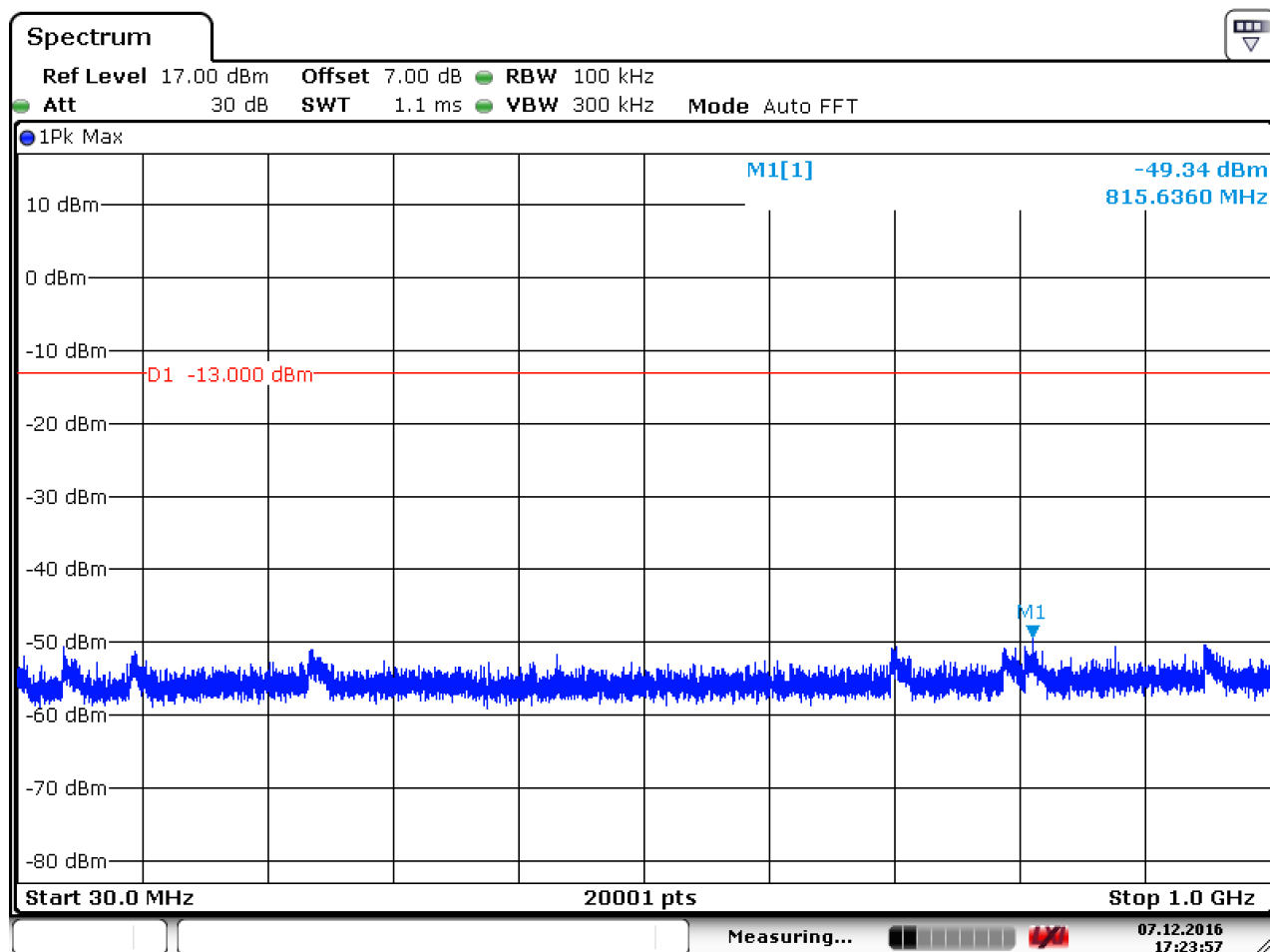
Date: 7.DEC.2016 17:24:58



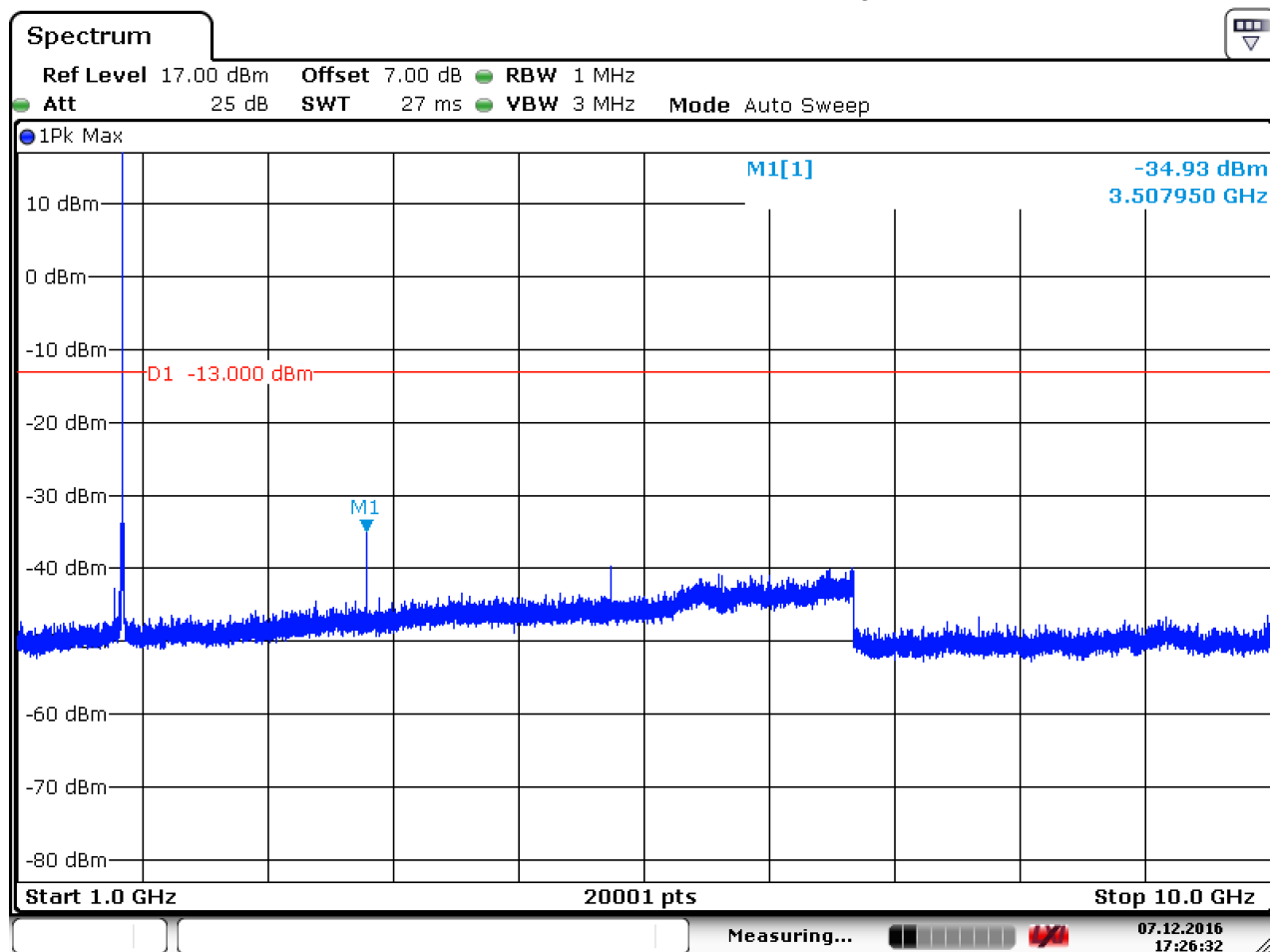
Date: 7.DEC.2016 17:47:13



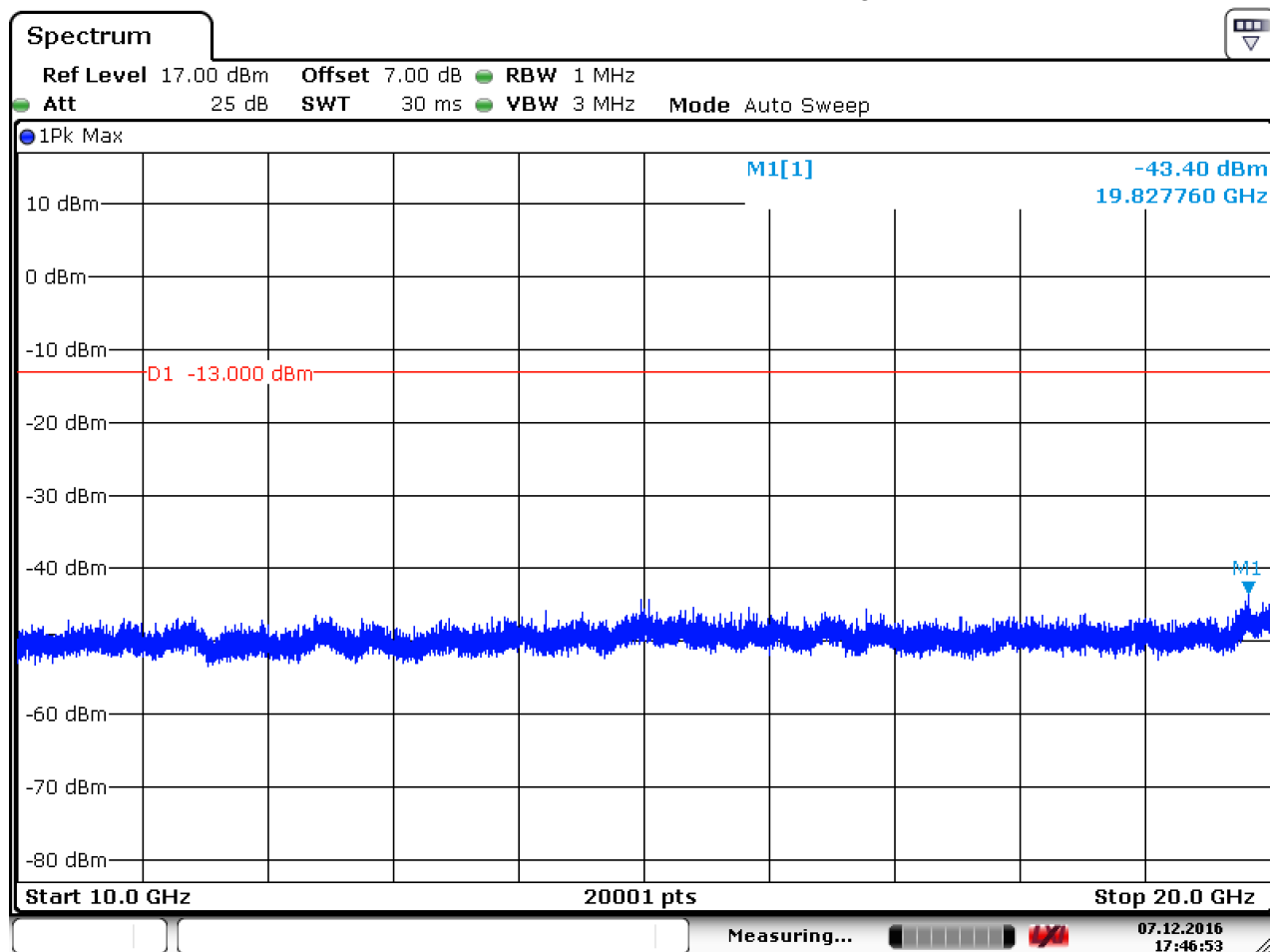
6.1.1.1.3 Test Channel = HCH



Date: 7.DEC.2016 17:23:57



Date: 7.DEC.2016 17:26:32



Date: 7.DEC.2016 17:46:53



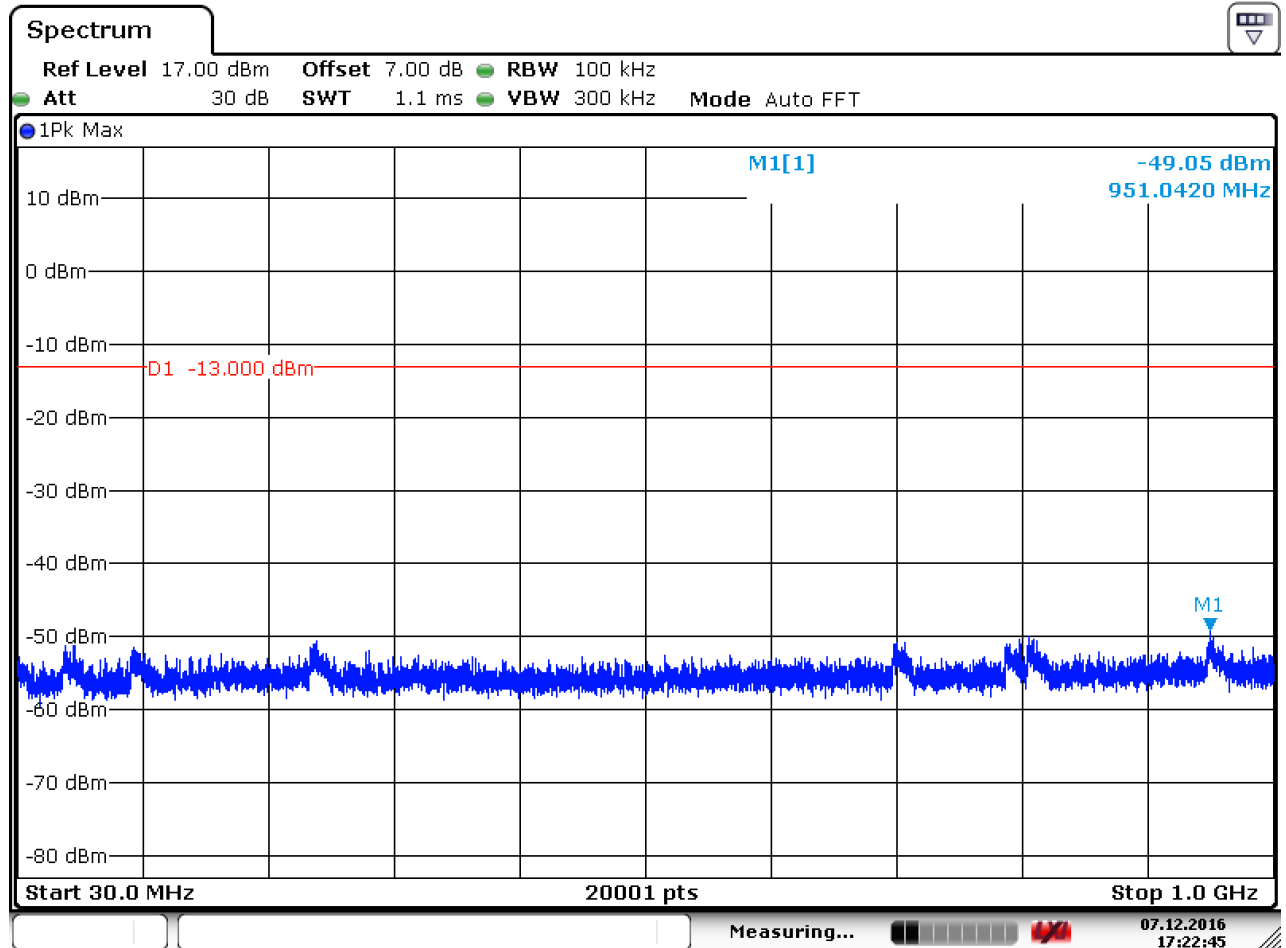
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6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH



Date: 7.DEC.2016 17:22:45

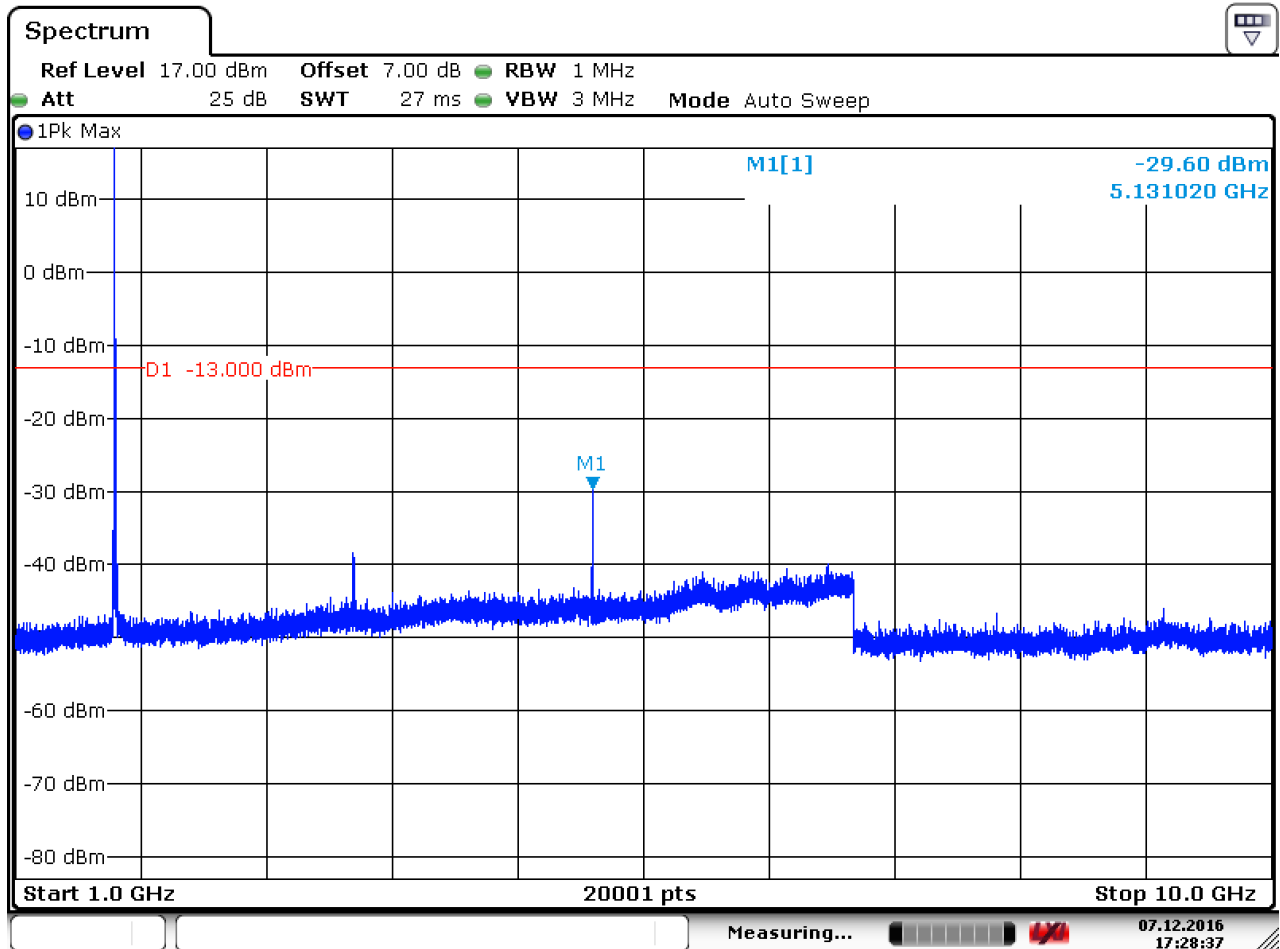
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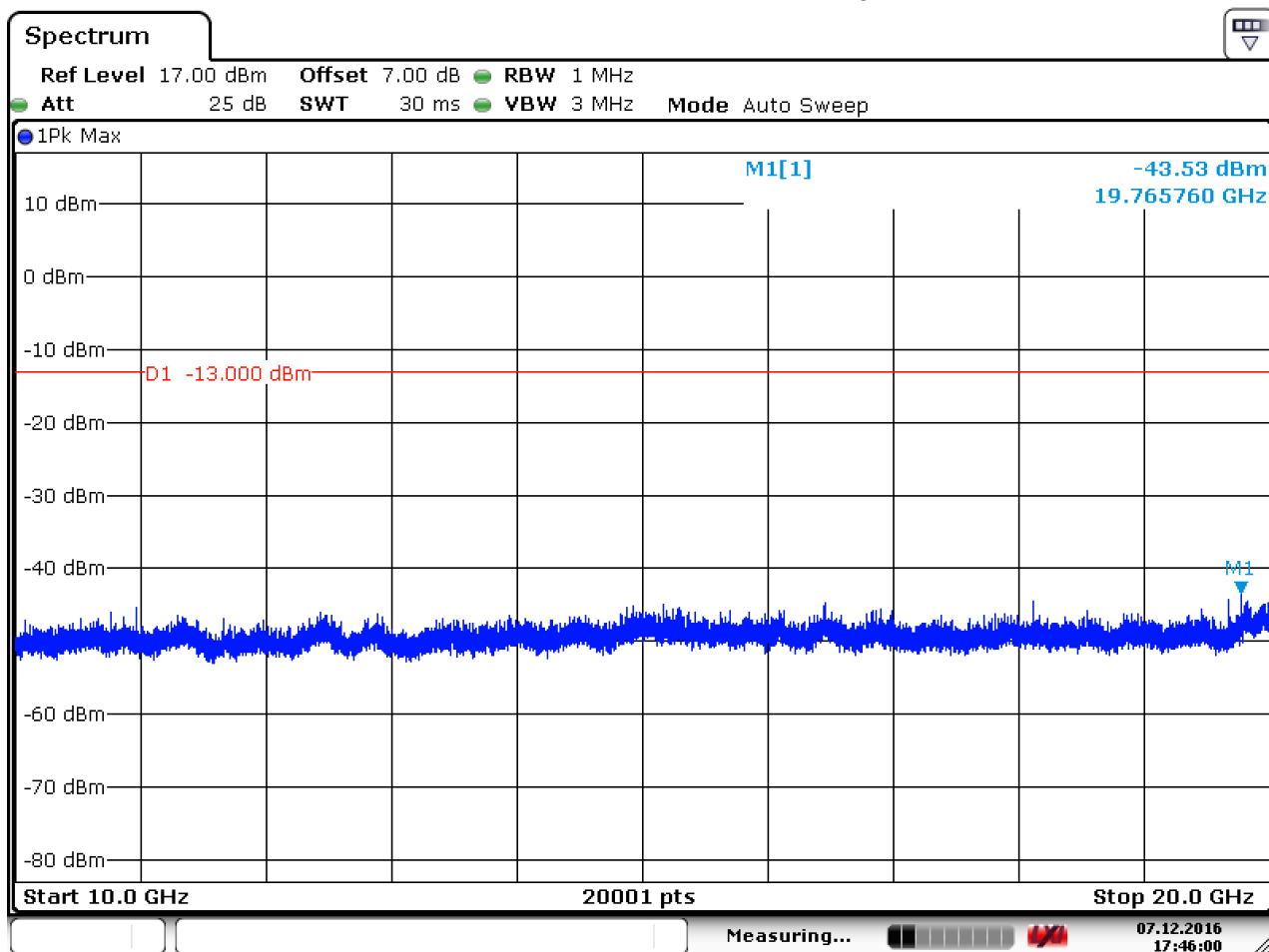
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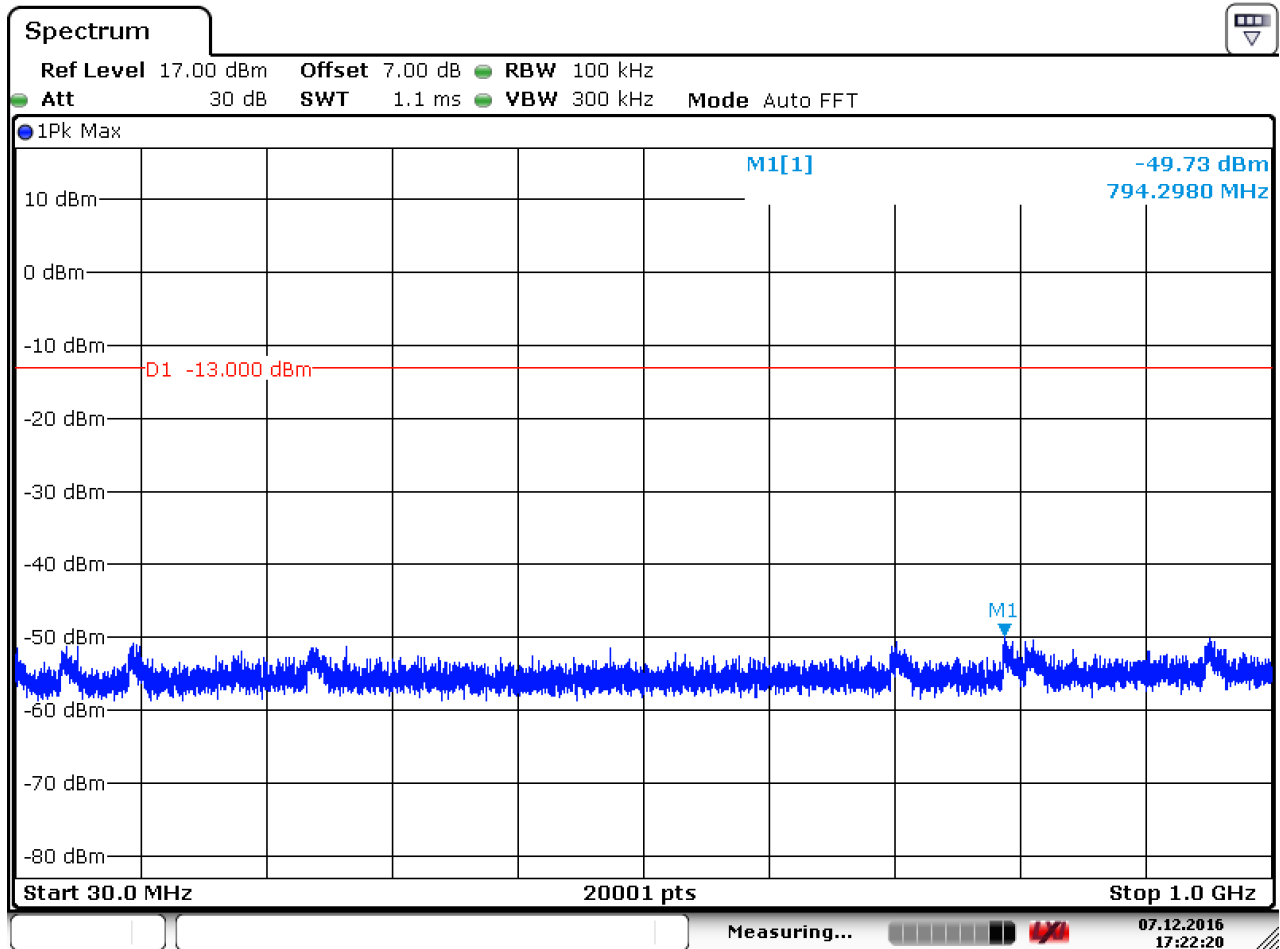


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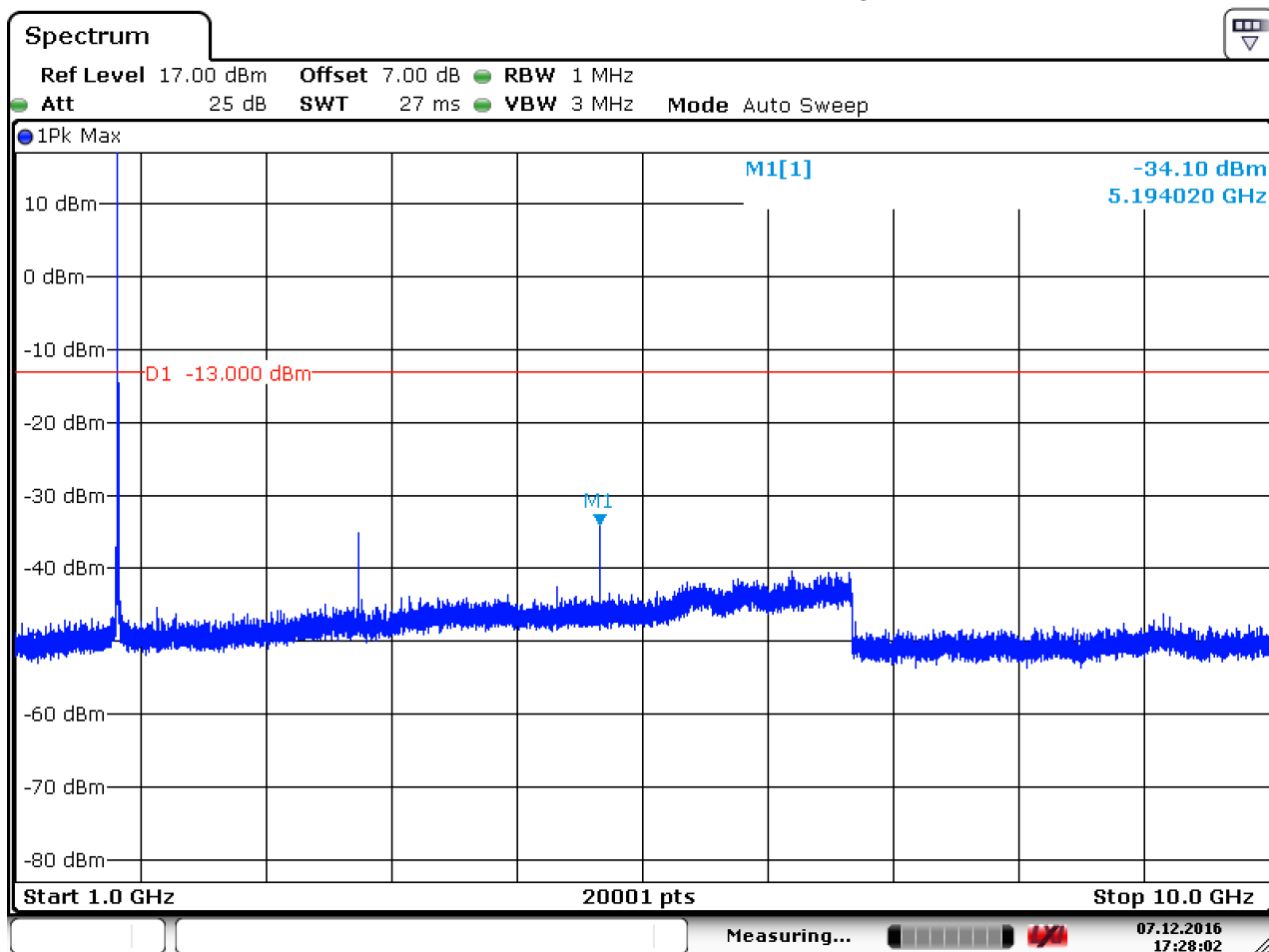
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6.1.1.2.2 Test Channel = MCH



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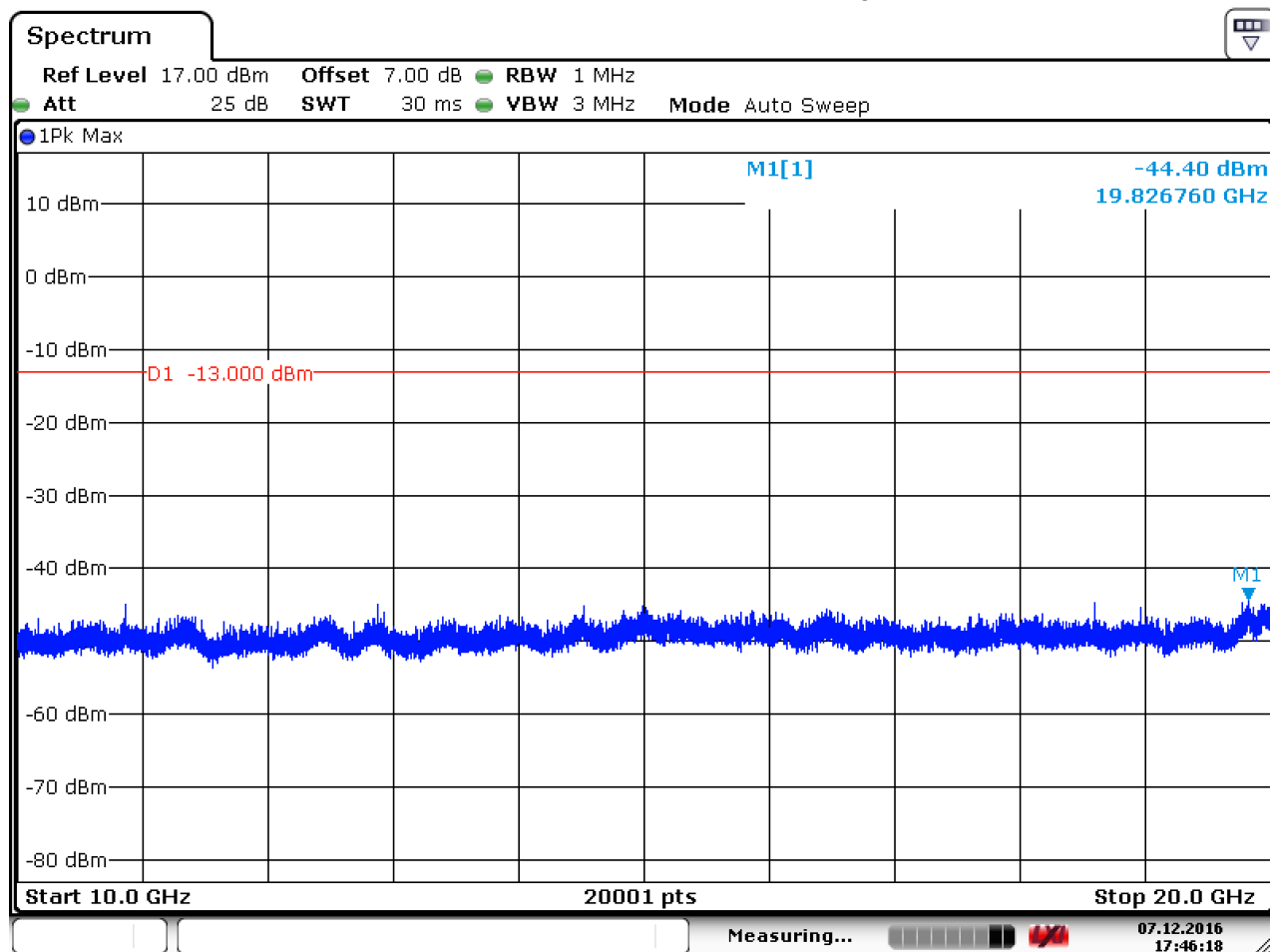


Date: 7.DEC.2016 17:28:03



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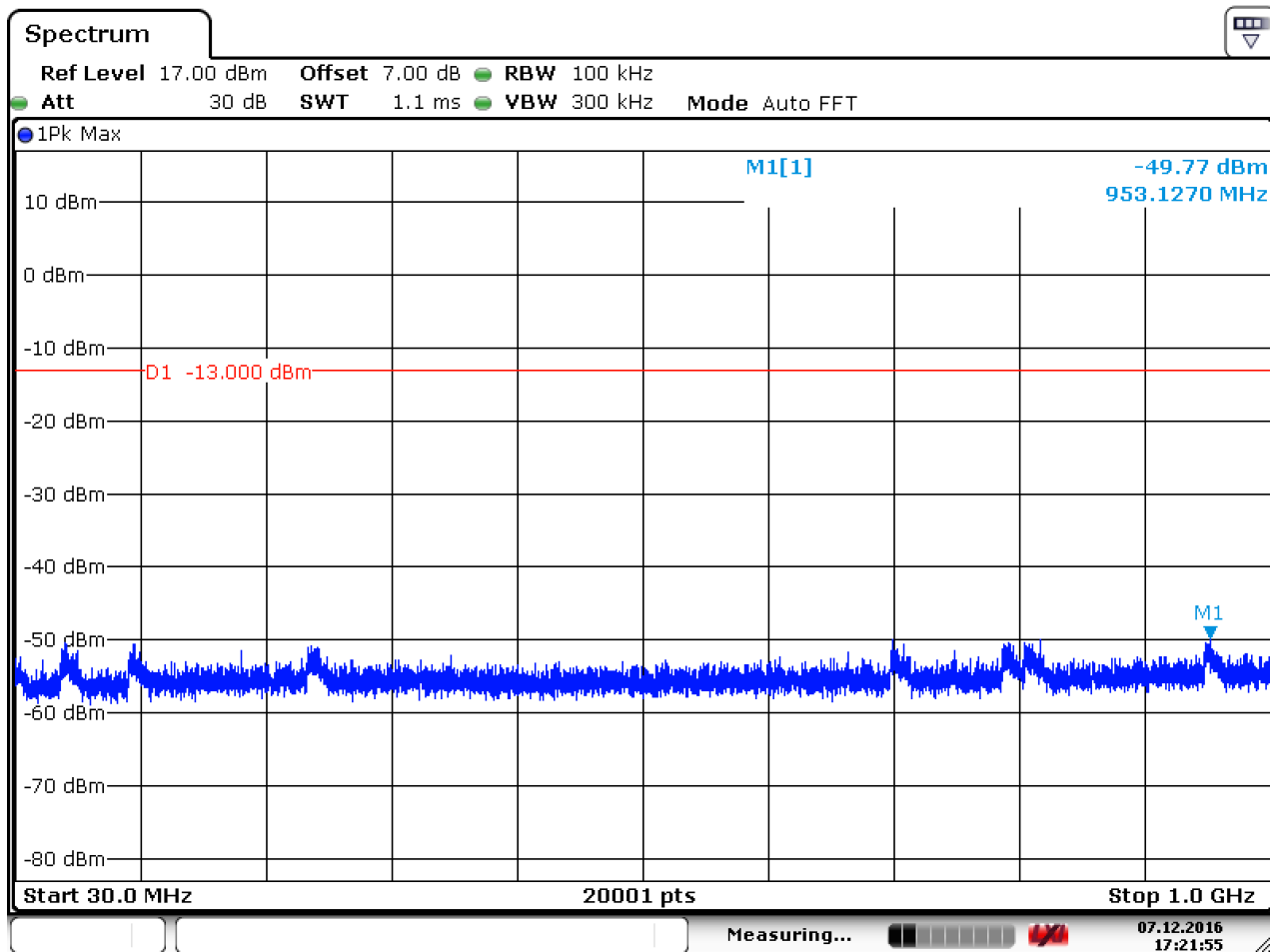


Date: 7.DEC.2016 17:46:19

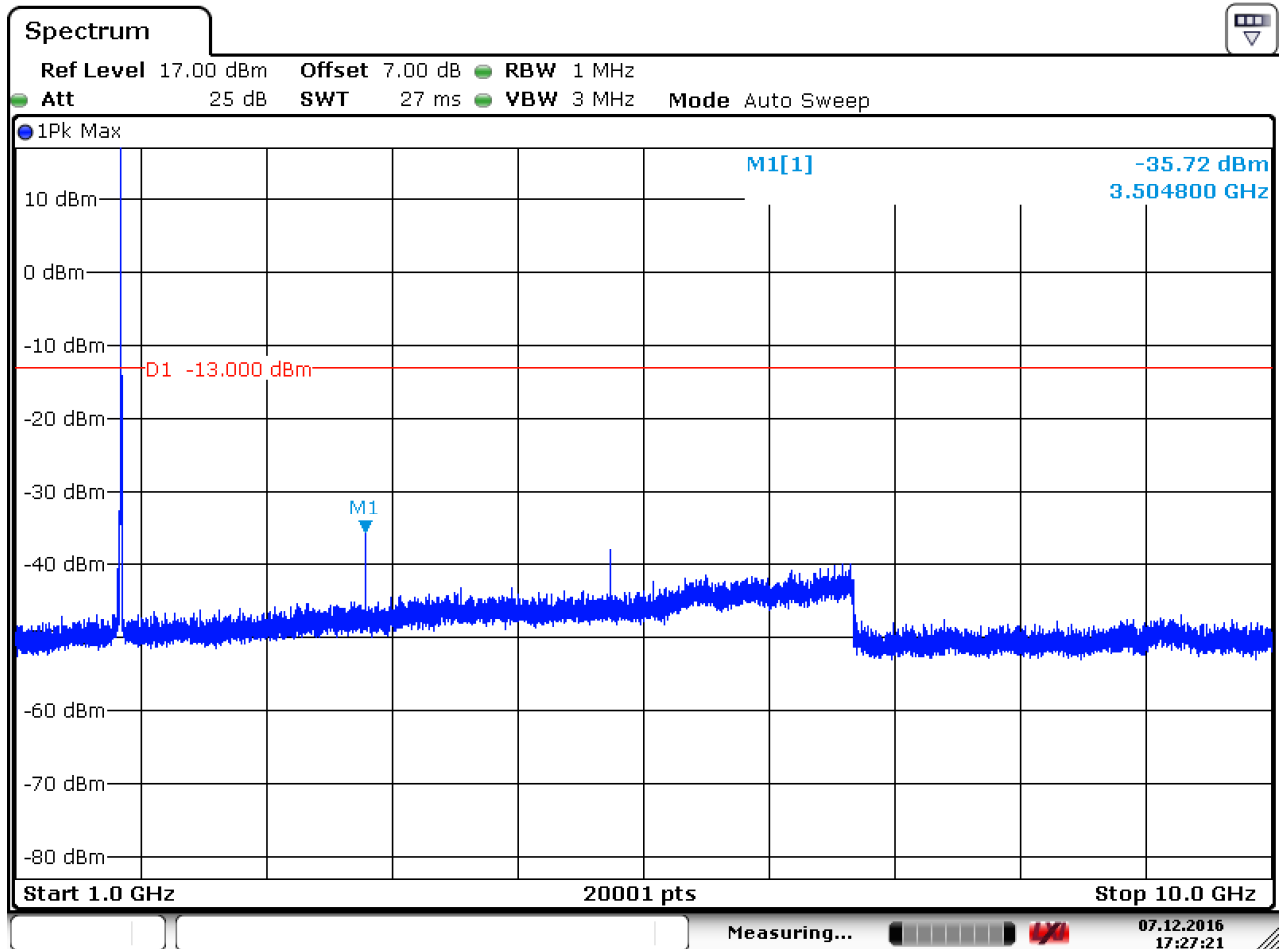
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6.1.1.2.3 Test Channel = HCH



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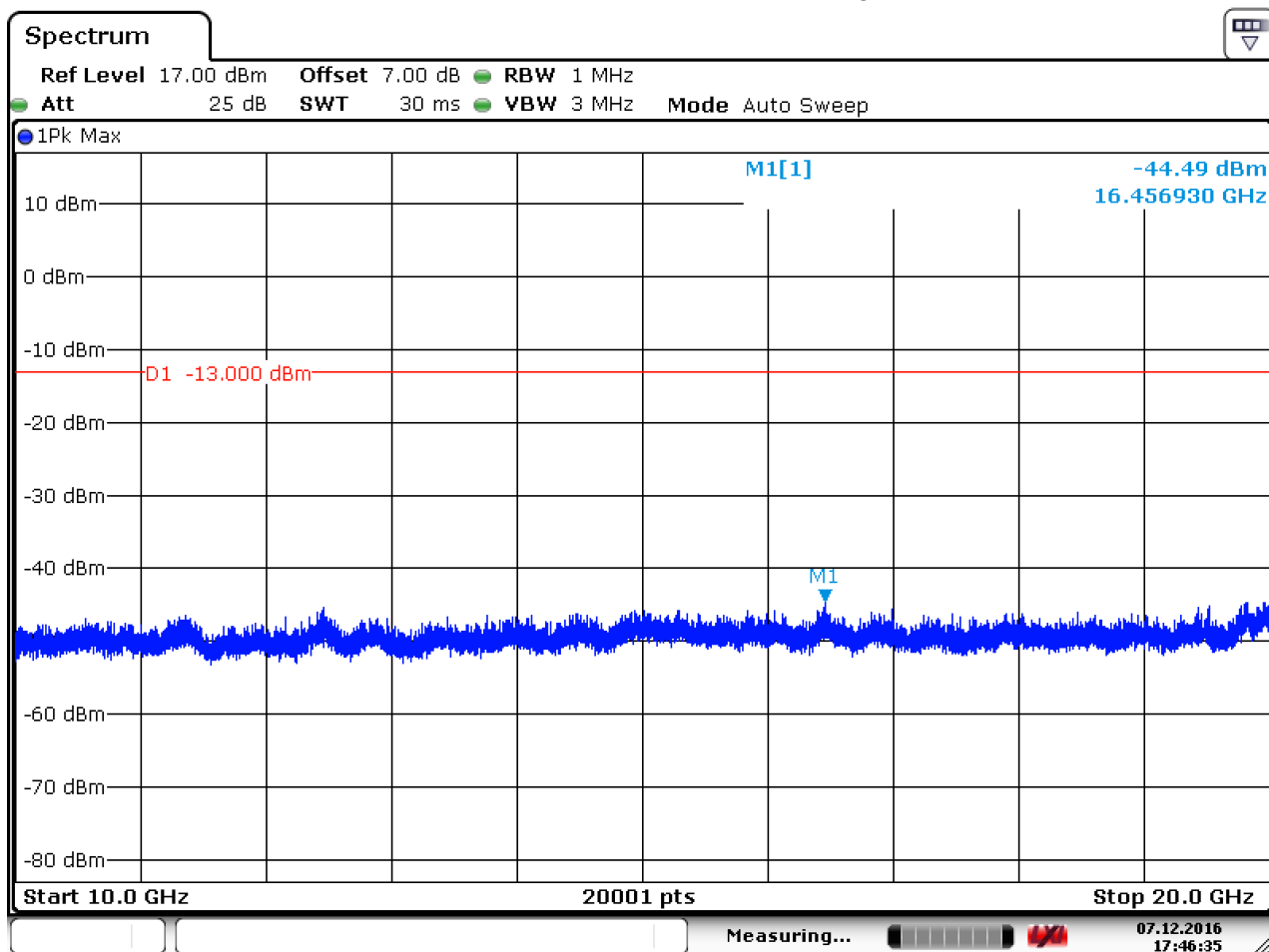


Date: 7.DEC.2016 17:27:22



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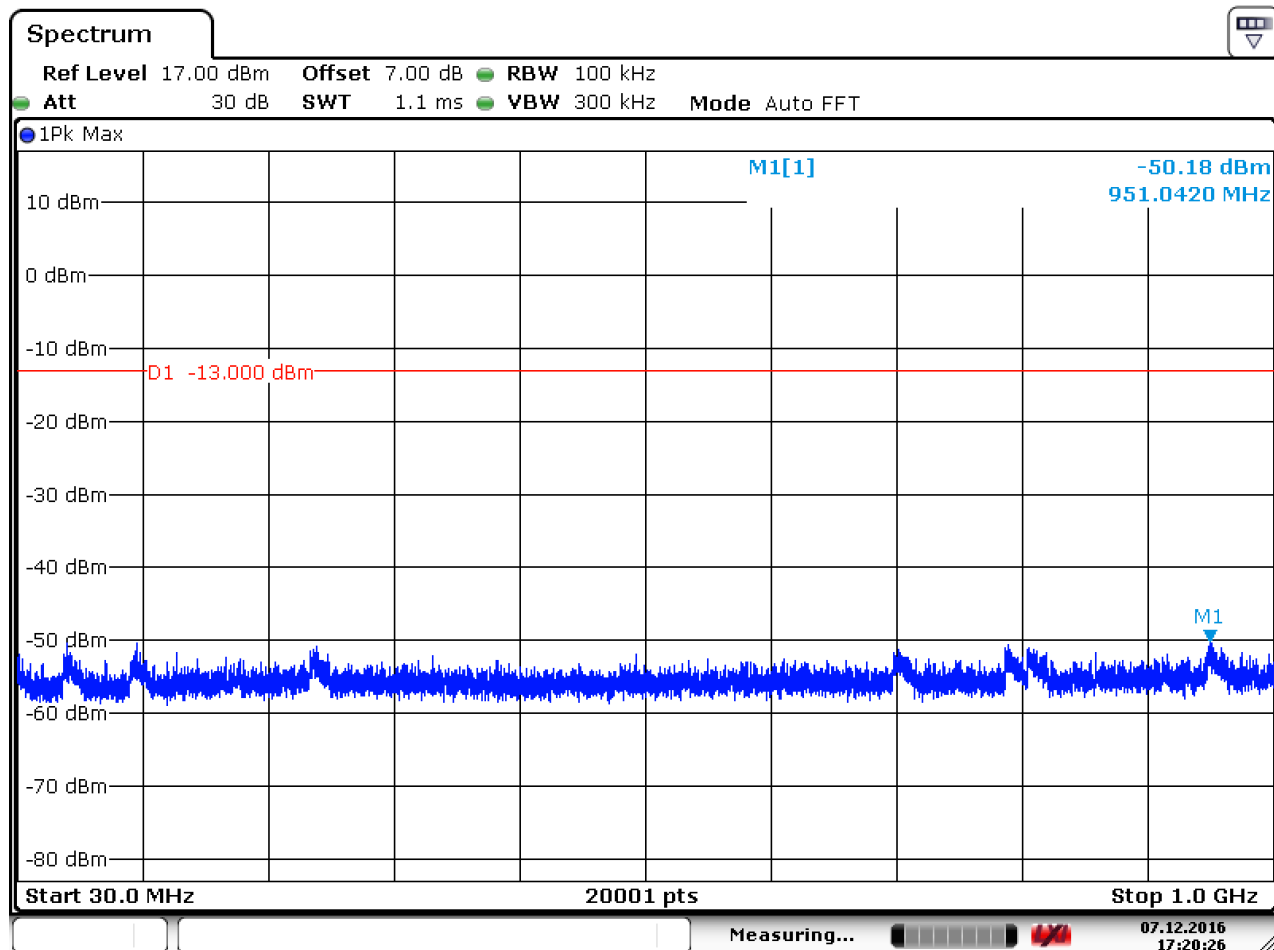
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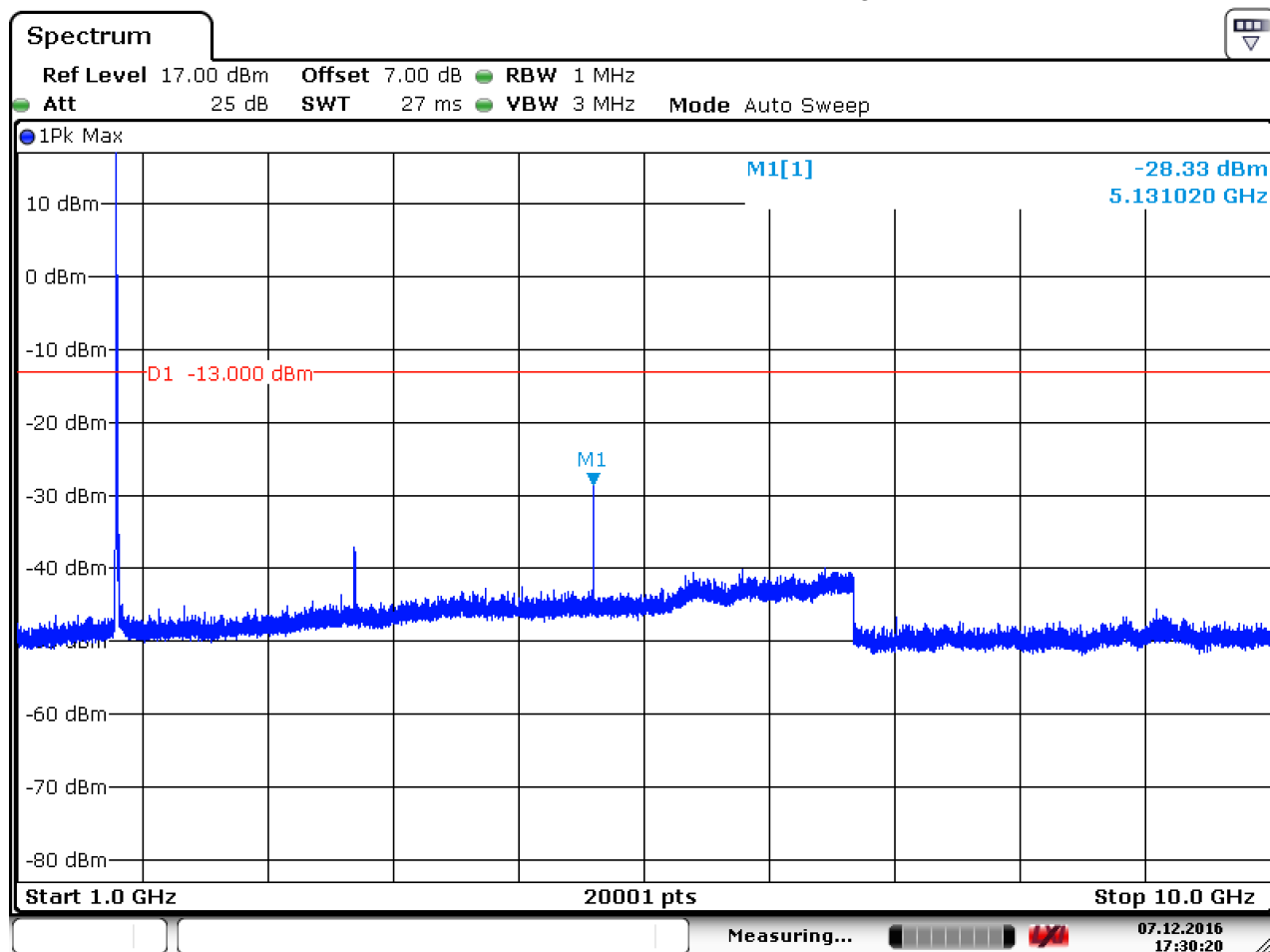


6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH



Date: 7.DEC.2016 17:20:26

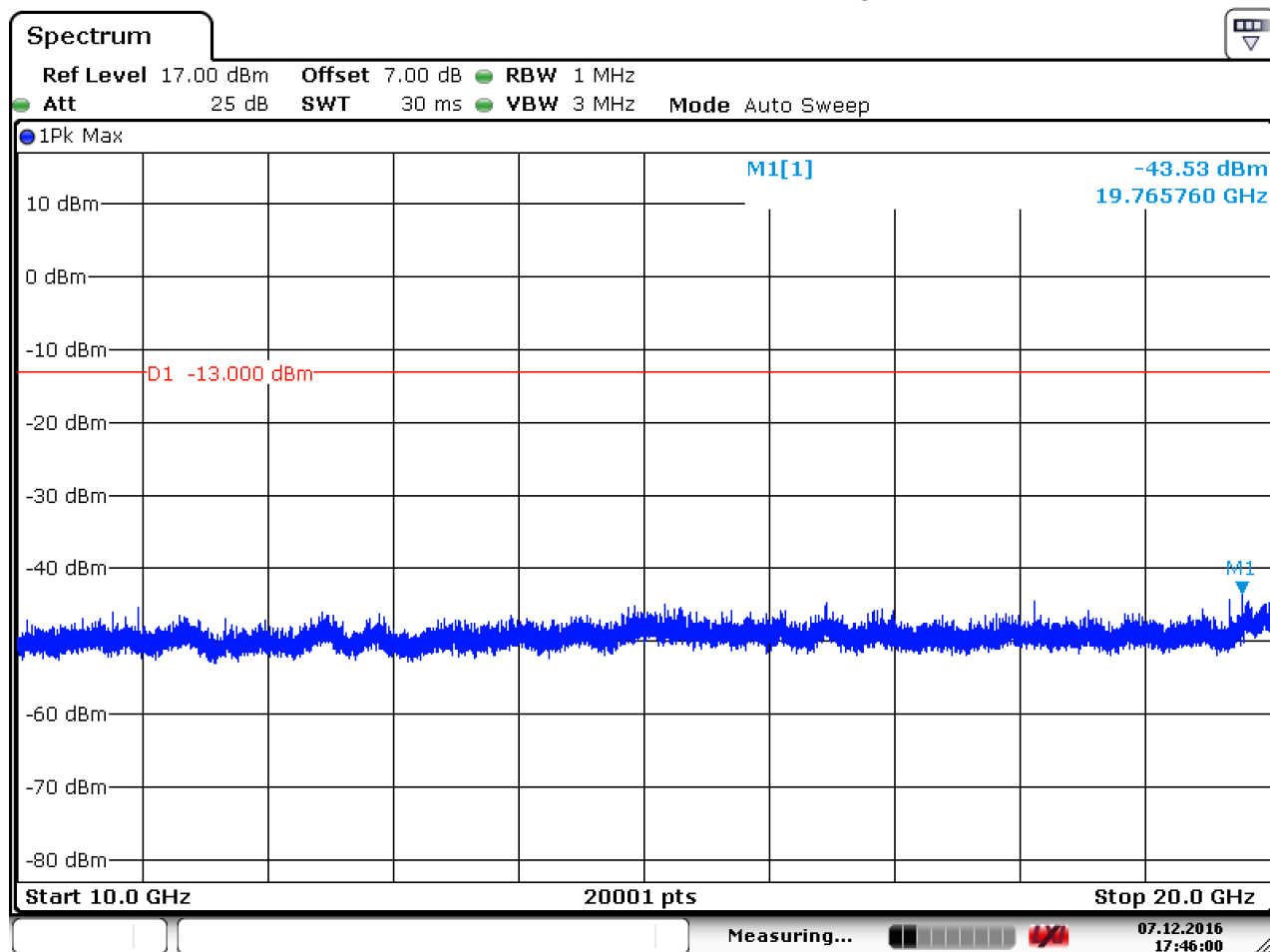


Date: 7.DEC.2016 17:30:20



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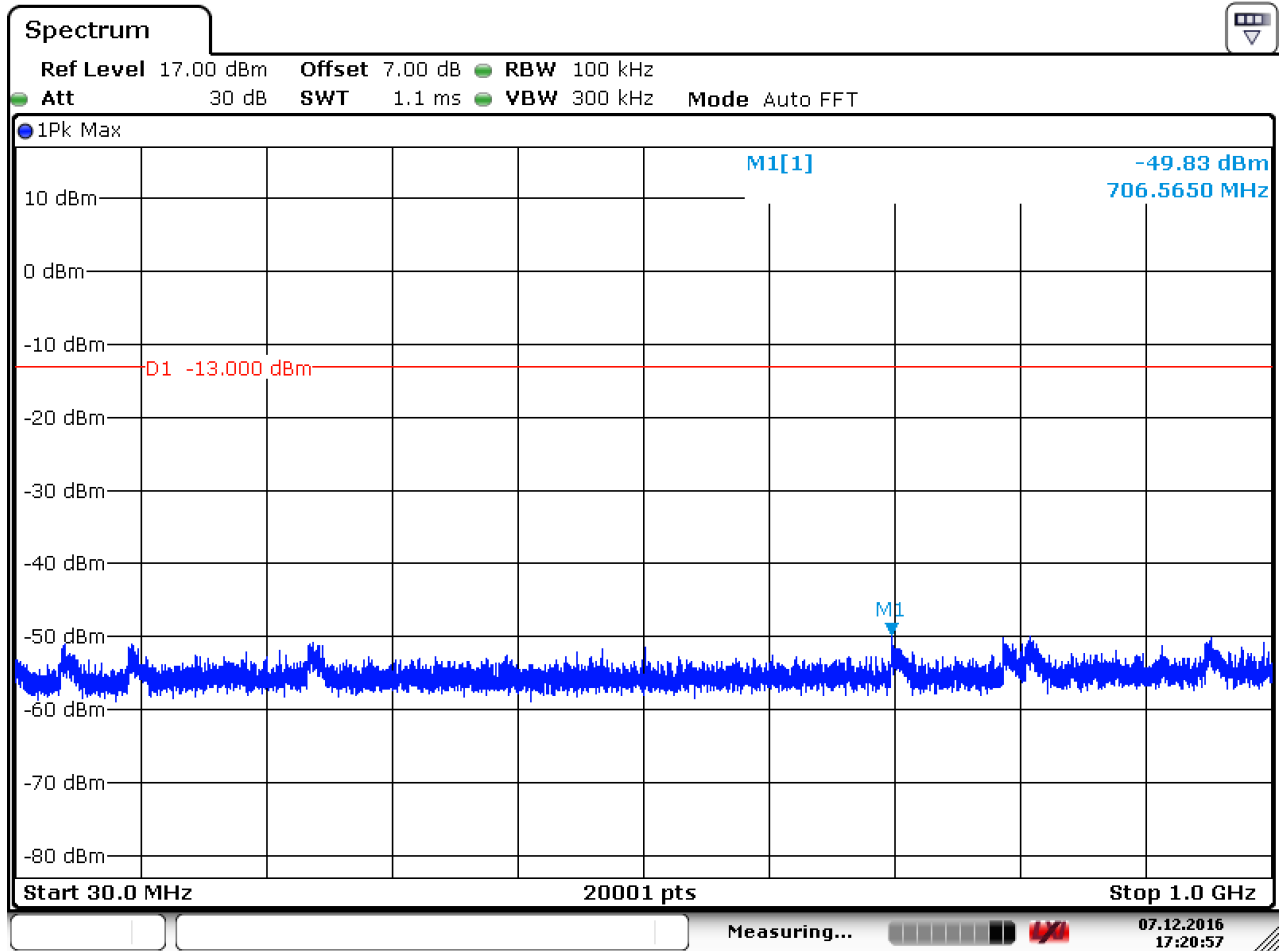


Date: 7.DEC.2016 17:46:00

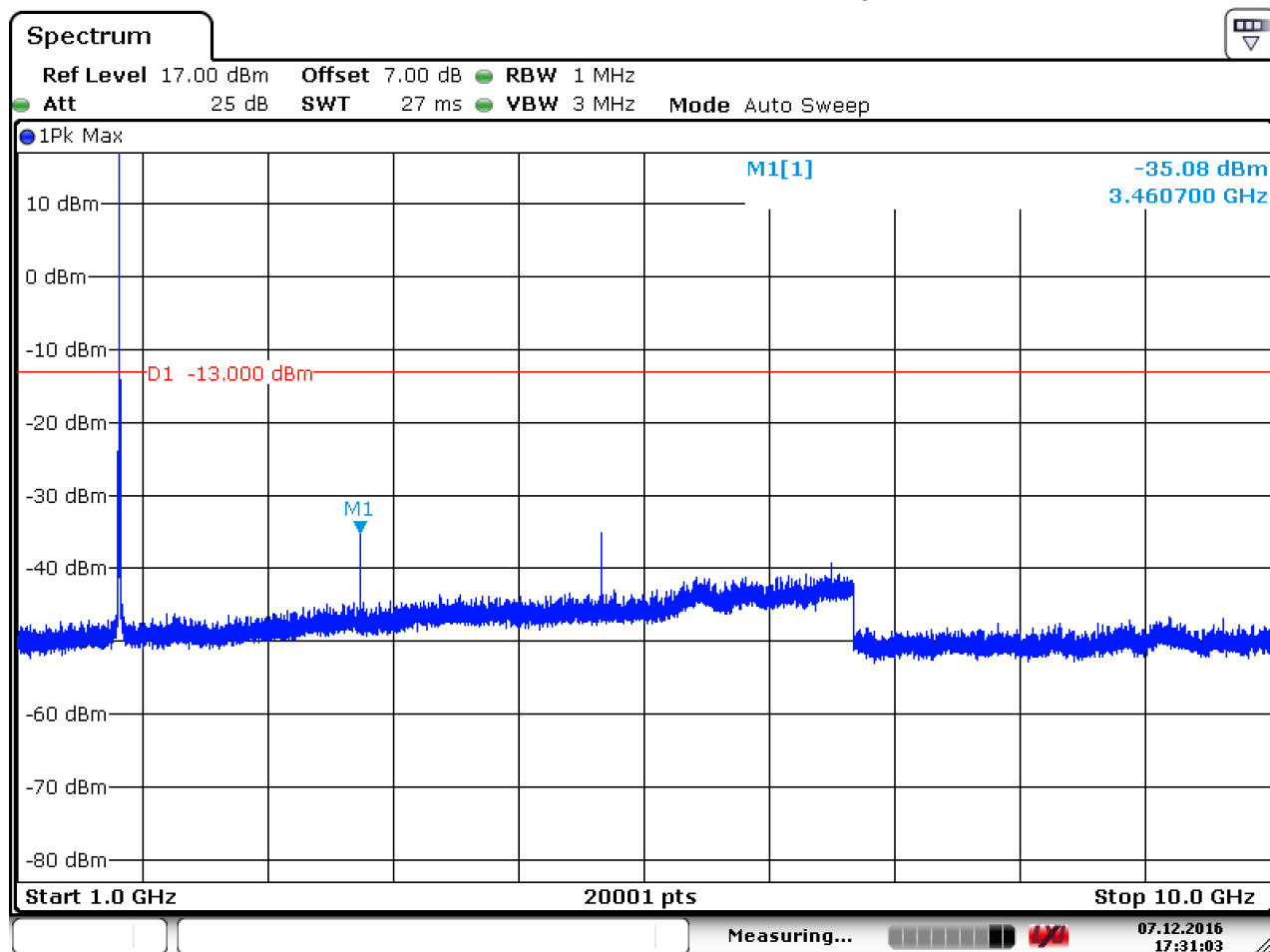
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6.1.1.3.2 Test Channel = MCH



Date: 7.DEC.2016 17:20:57

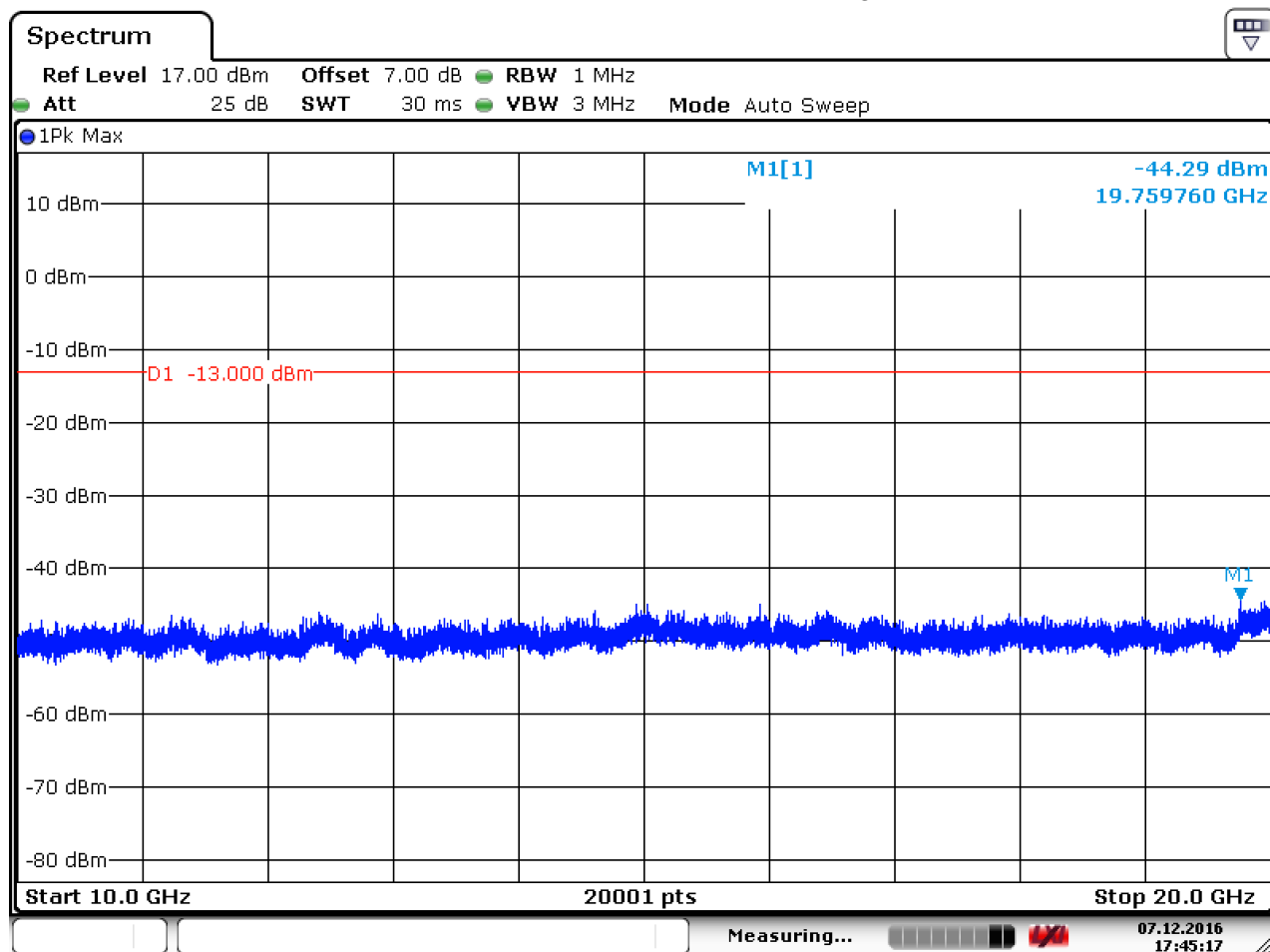


Date: 7.DEC.2016 17:31:04



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Date: 7.DEC.2016 17:45:18

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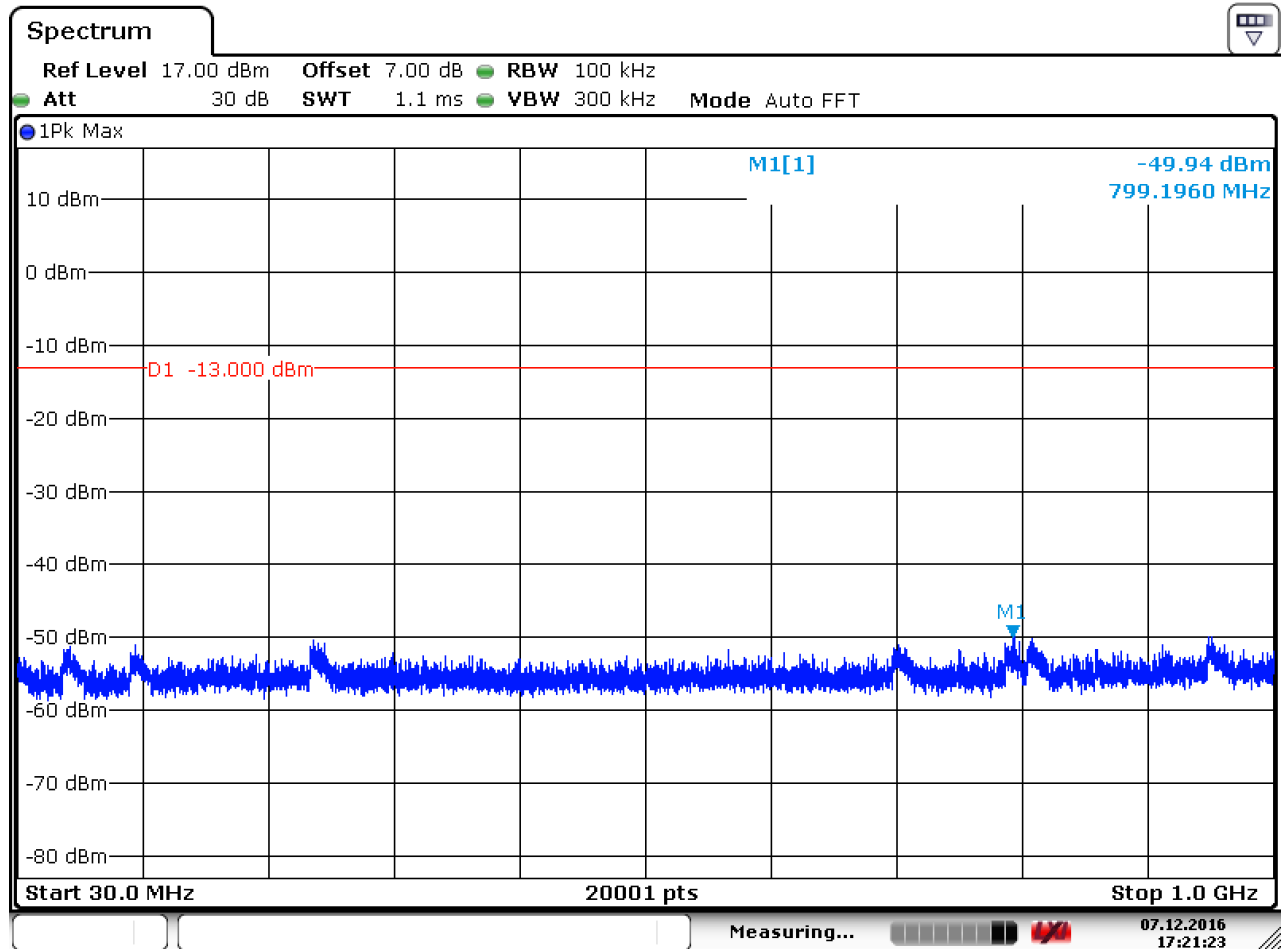


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6.1.1.3.3 Test Channel = HCH



Date: 7.DEC.2016 17:21:24

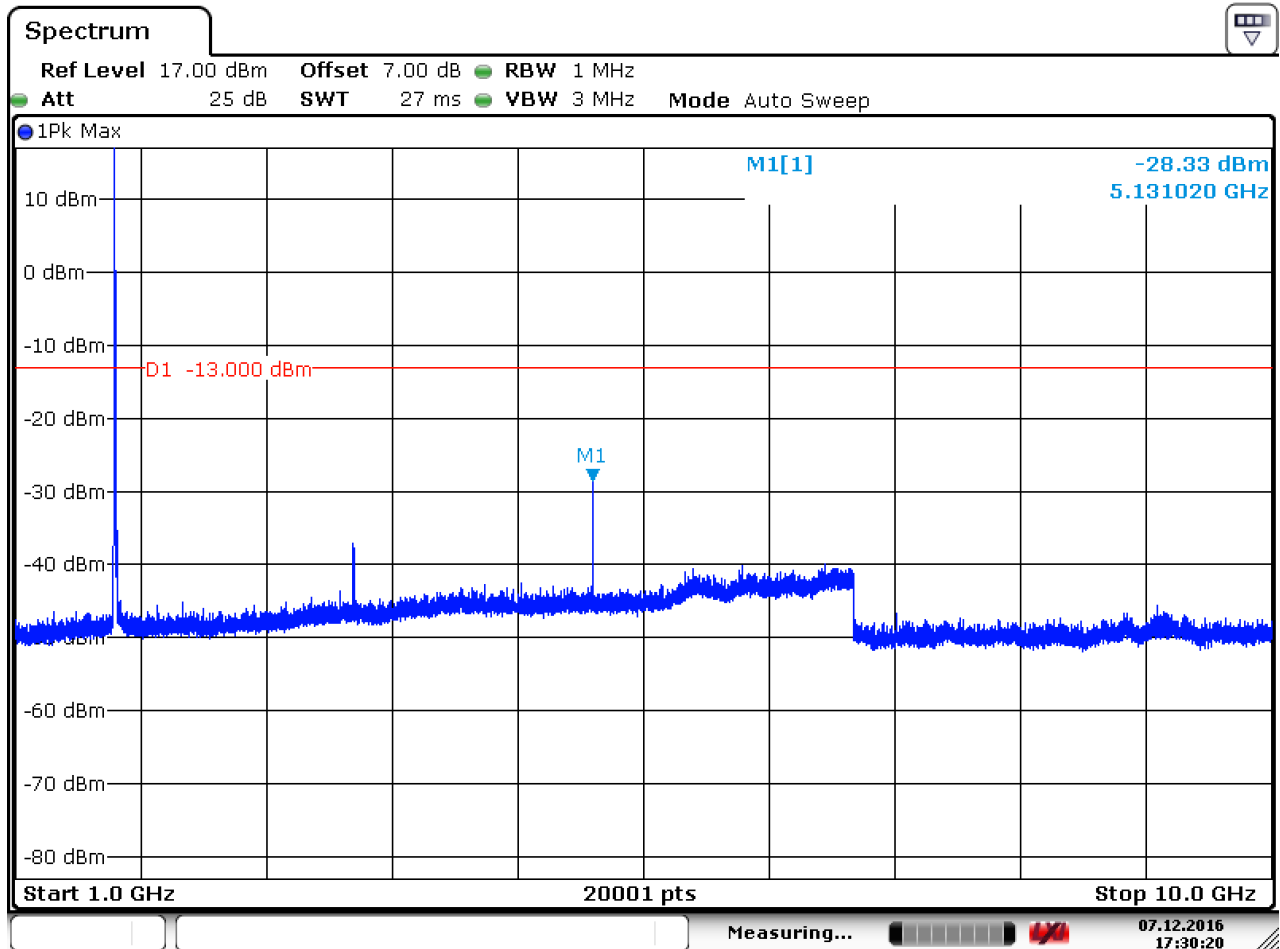
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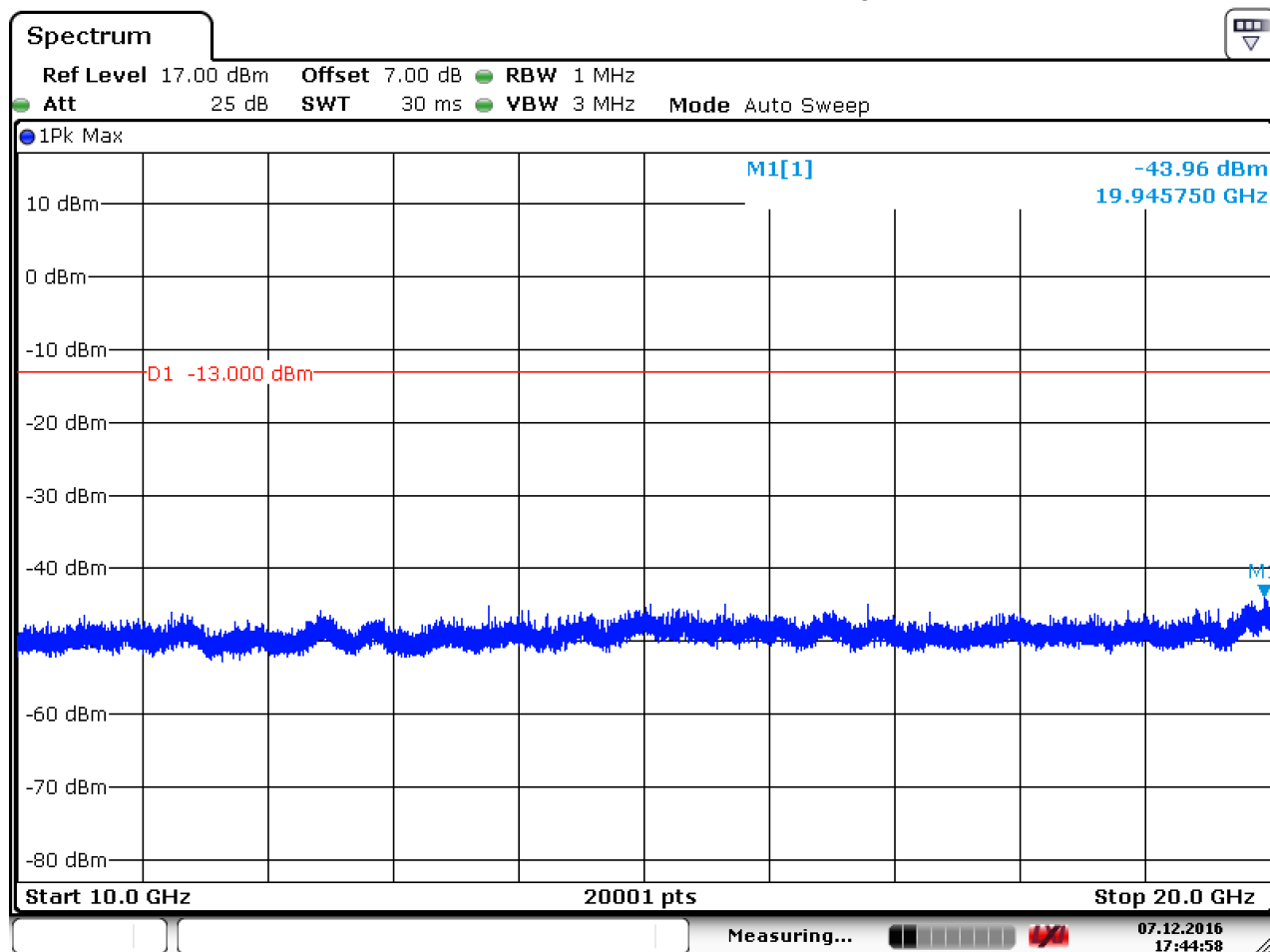
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Date: 7.DEC.2016 17:30:20

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Date: 7.DEC.2016 17:44:59



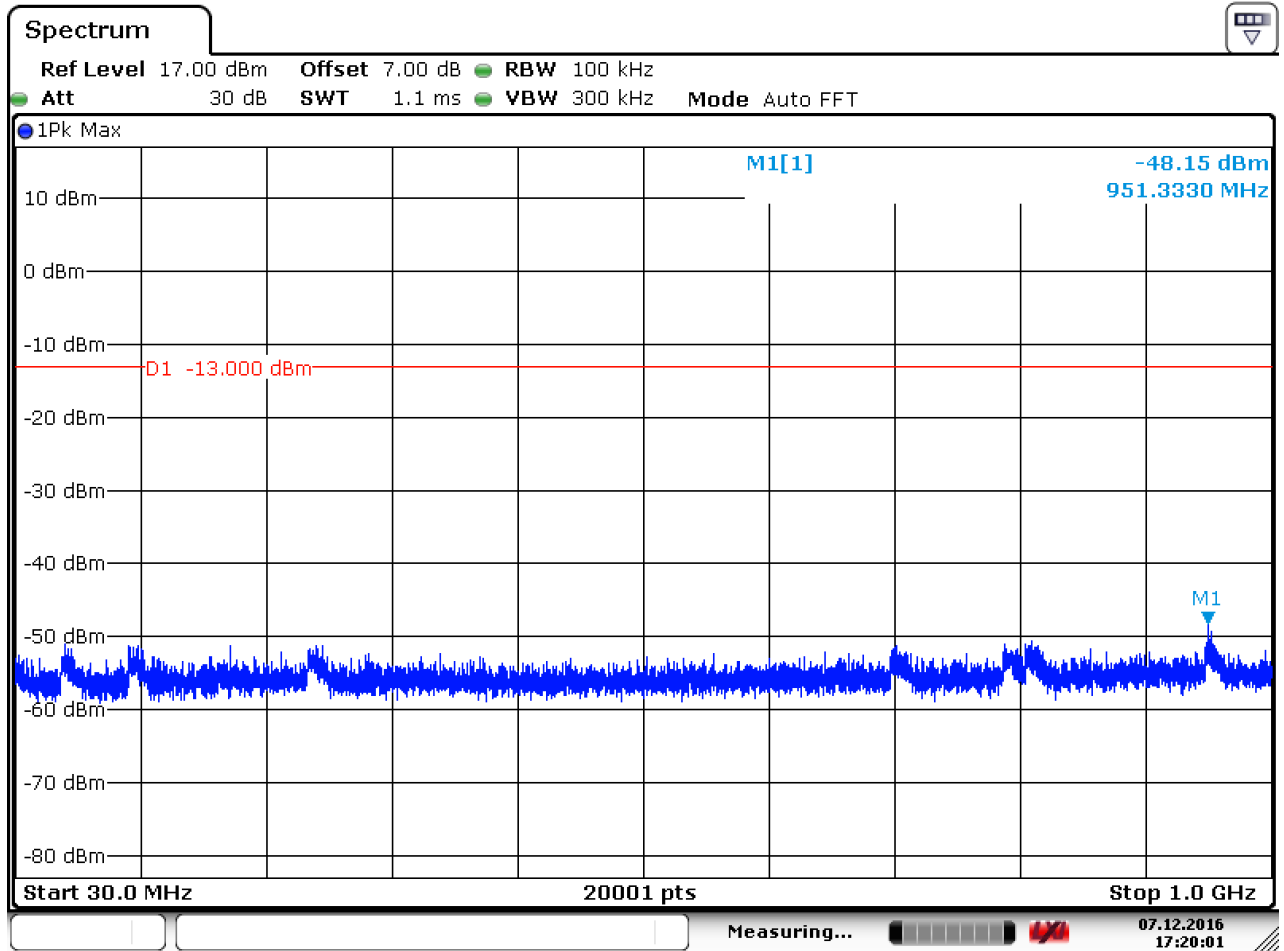
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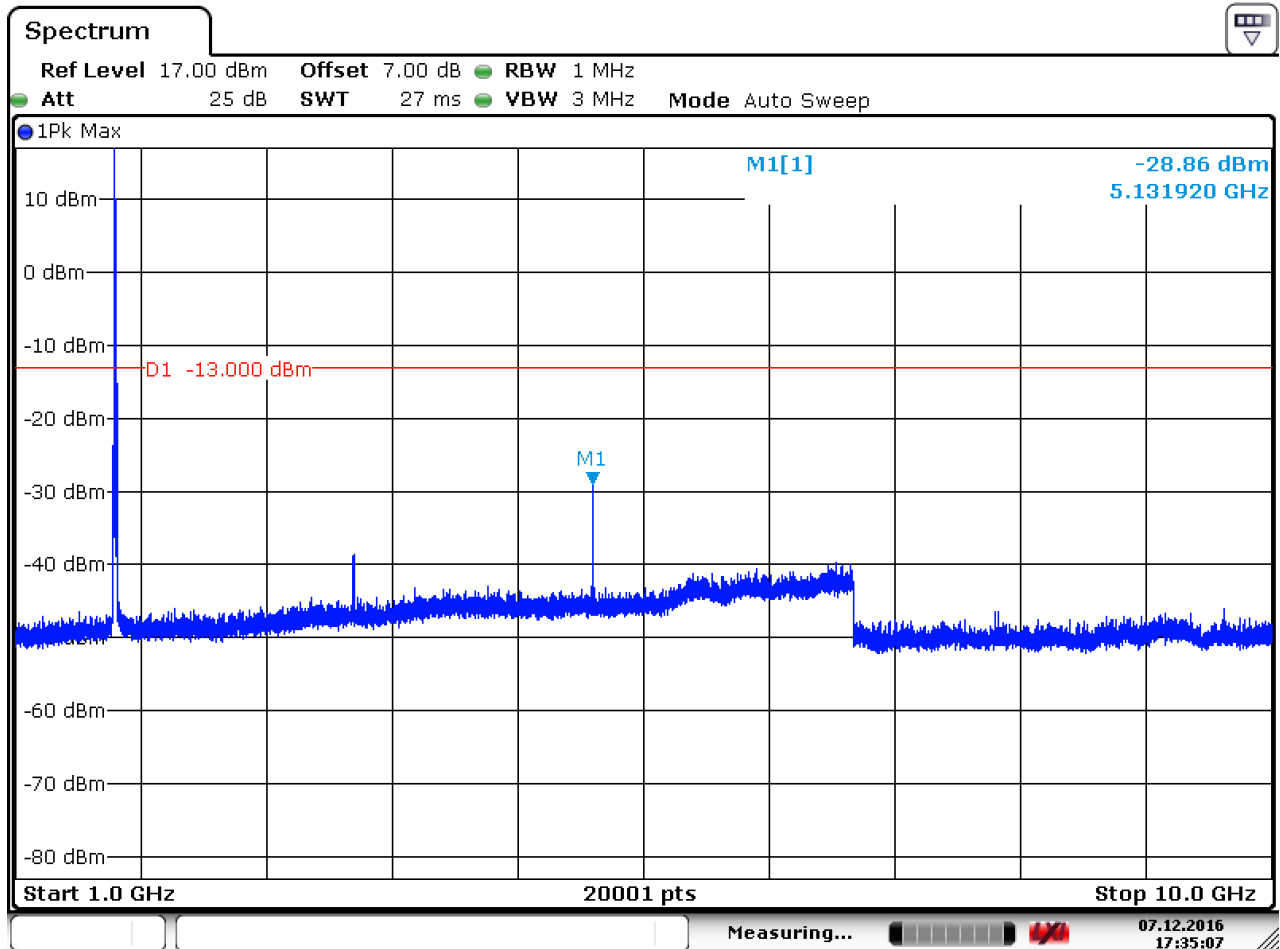
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH

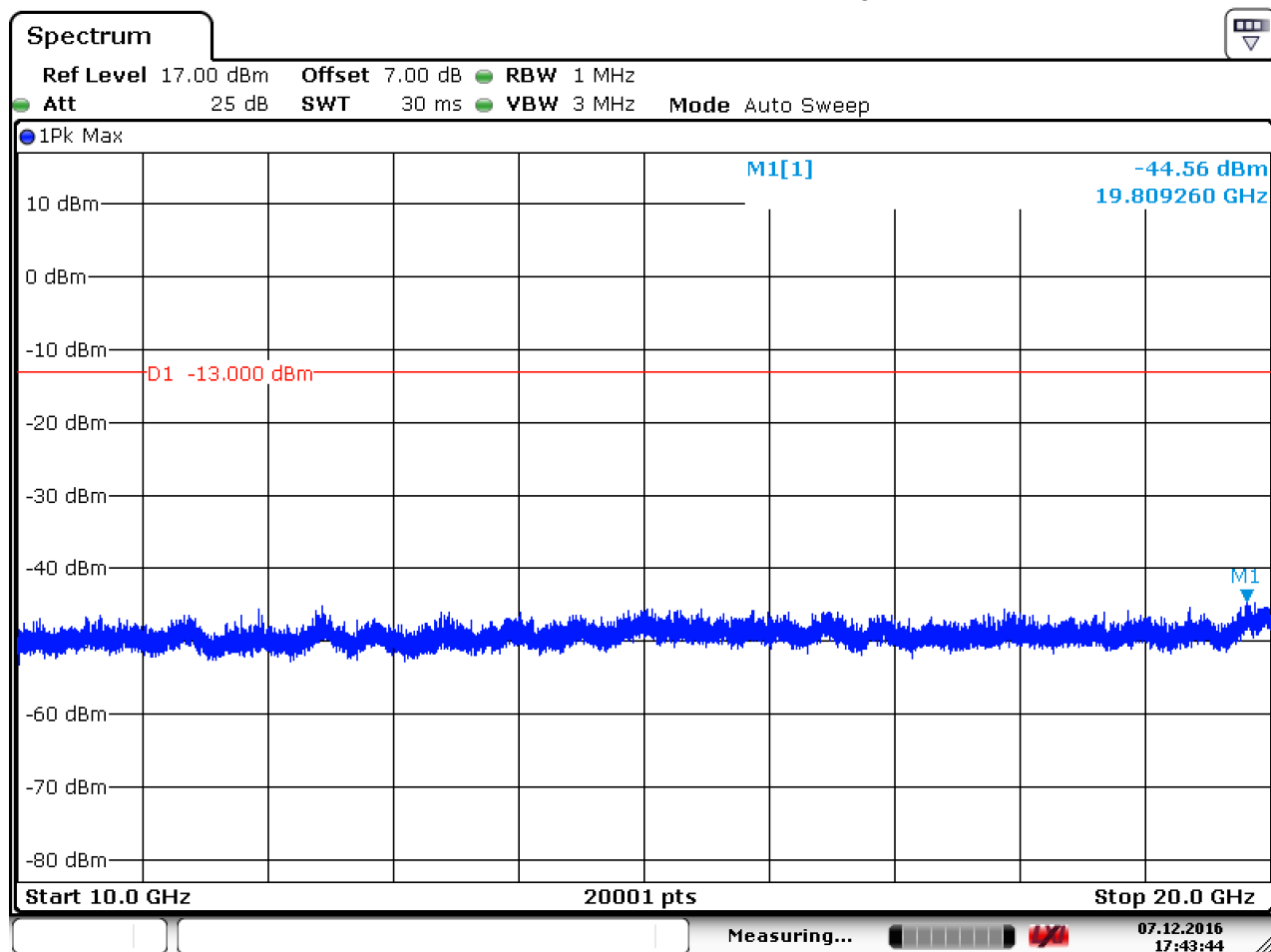


Date: 7.DEC.2016 17:20:02

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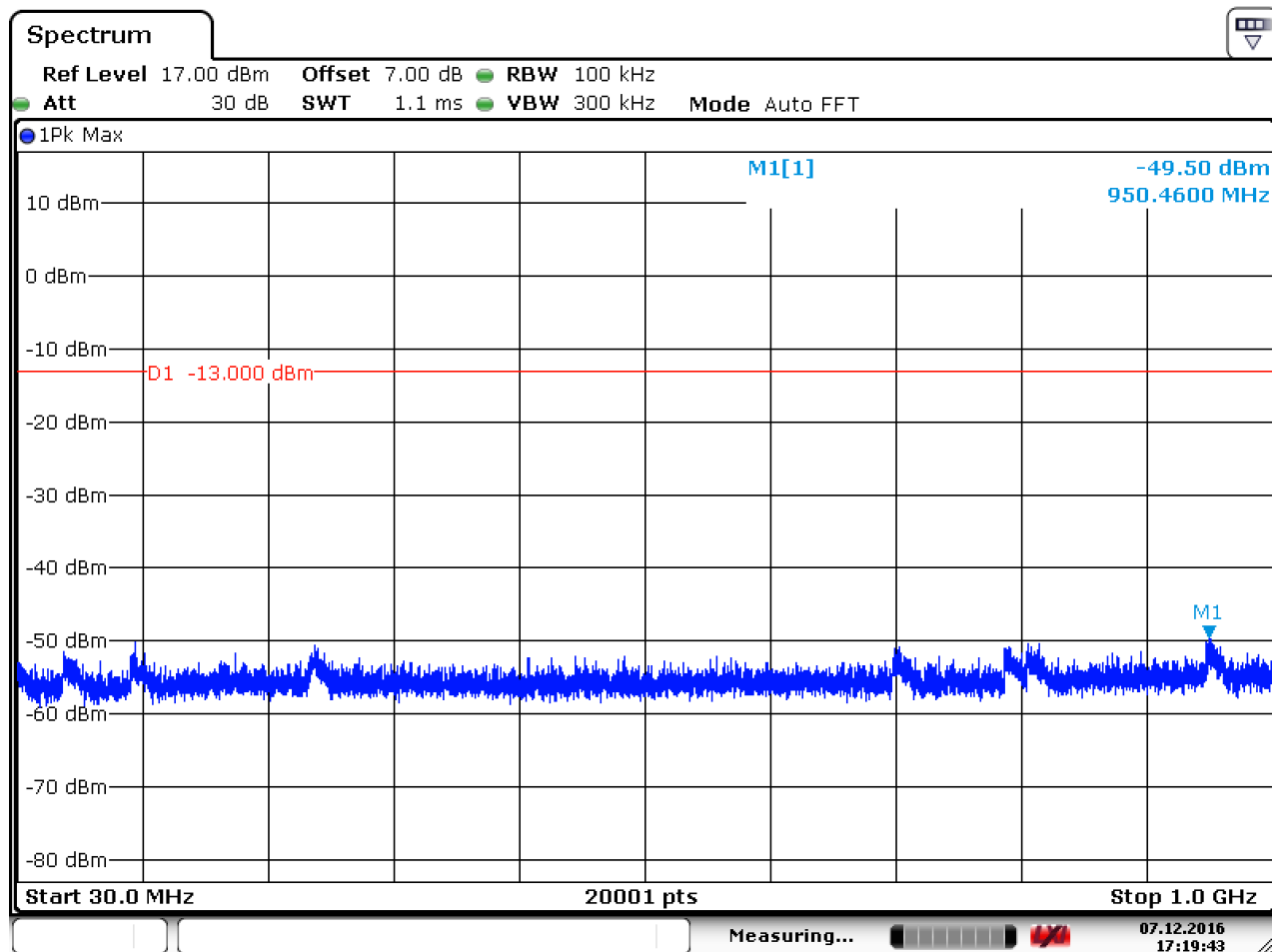
Date: 7.DEC.2016 17:35:07



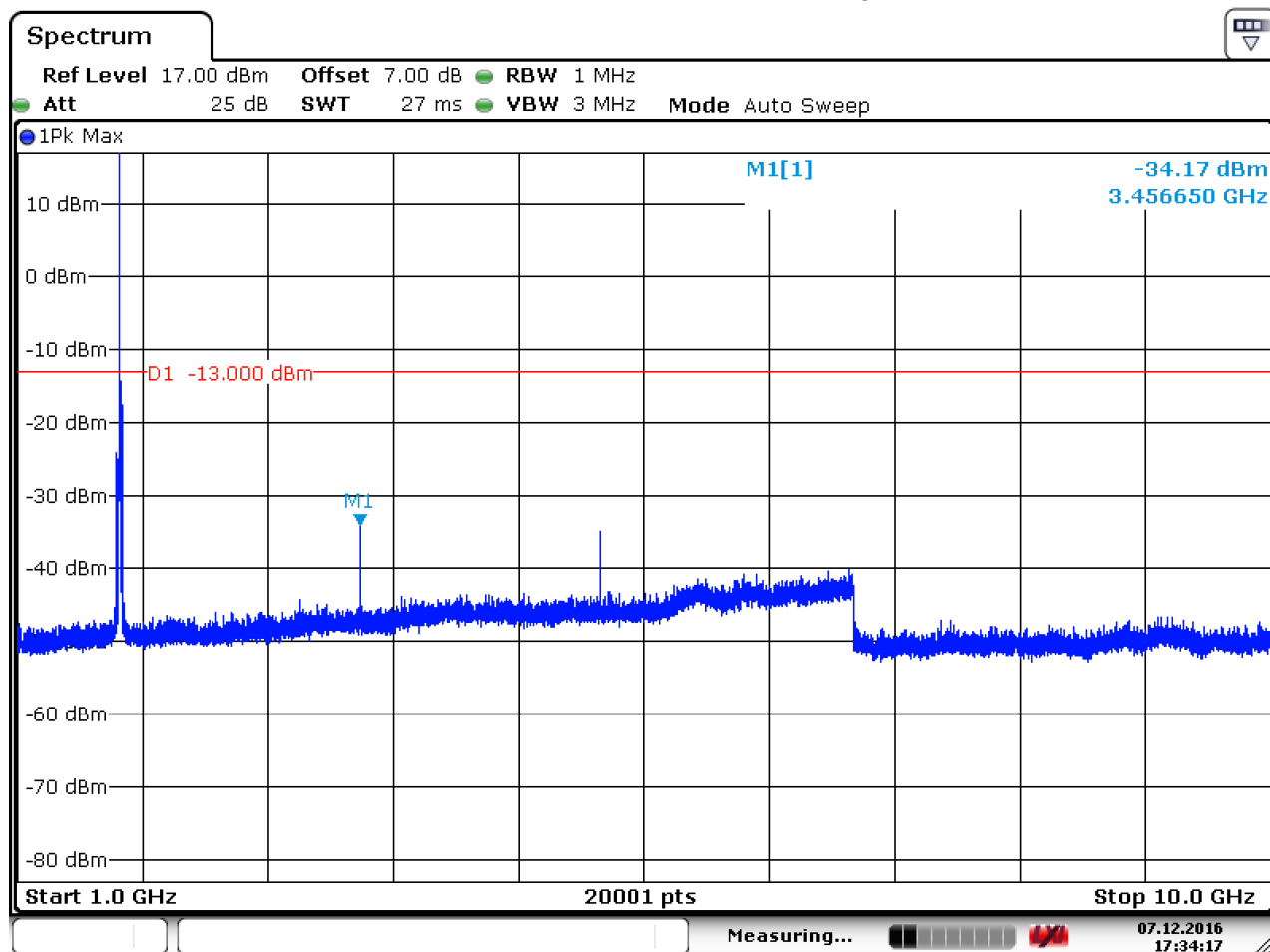
Date: 7.DEC.2016 17:43:44



6.1.1.4.2 Test Channel = MCH



Date: 7.DEC.2016 17:19:43

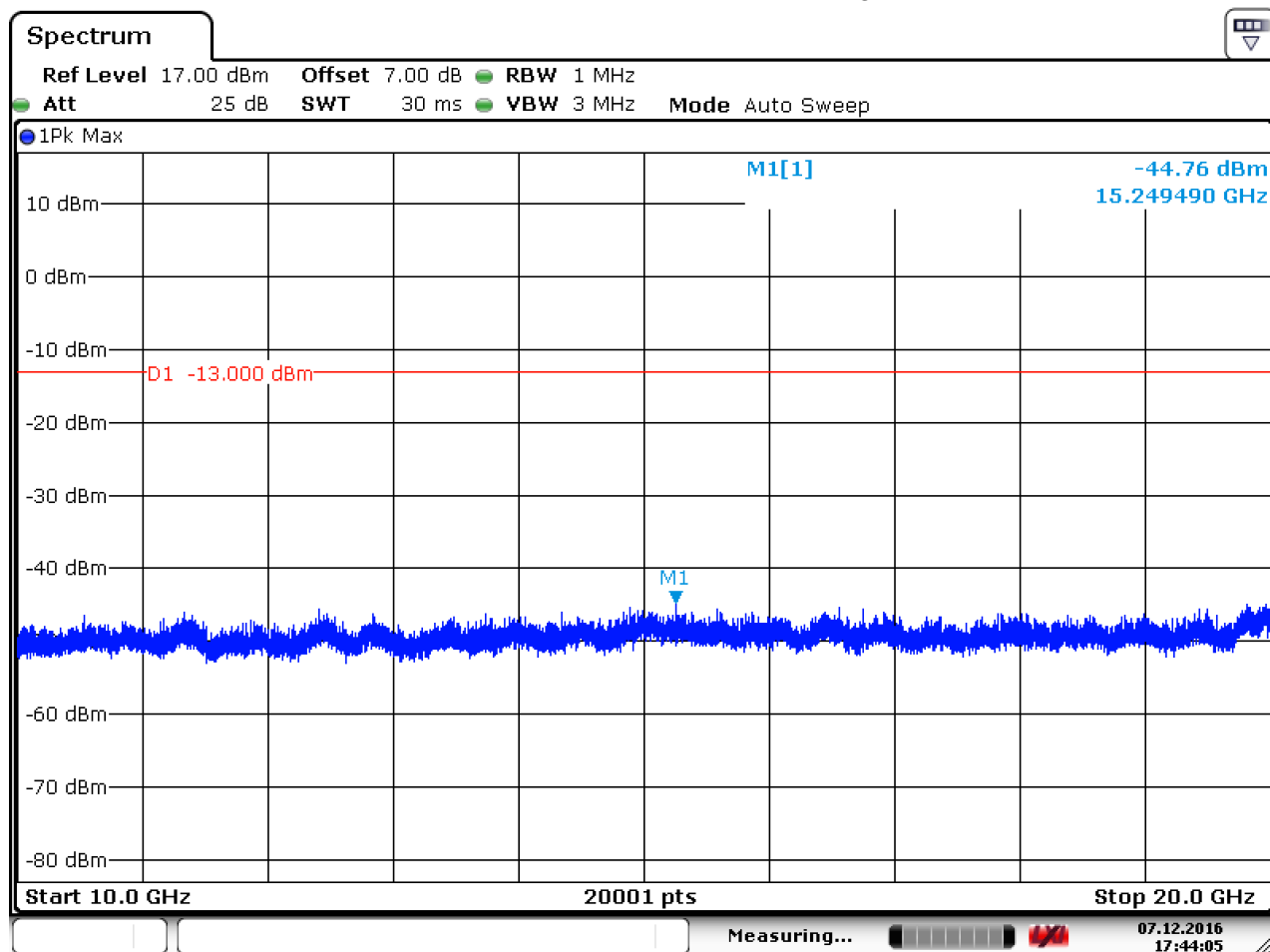


Date: 7.DEC.2016 17:34:17



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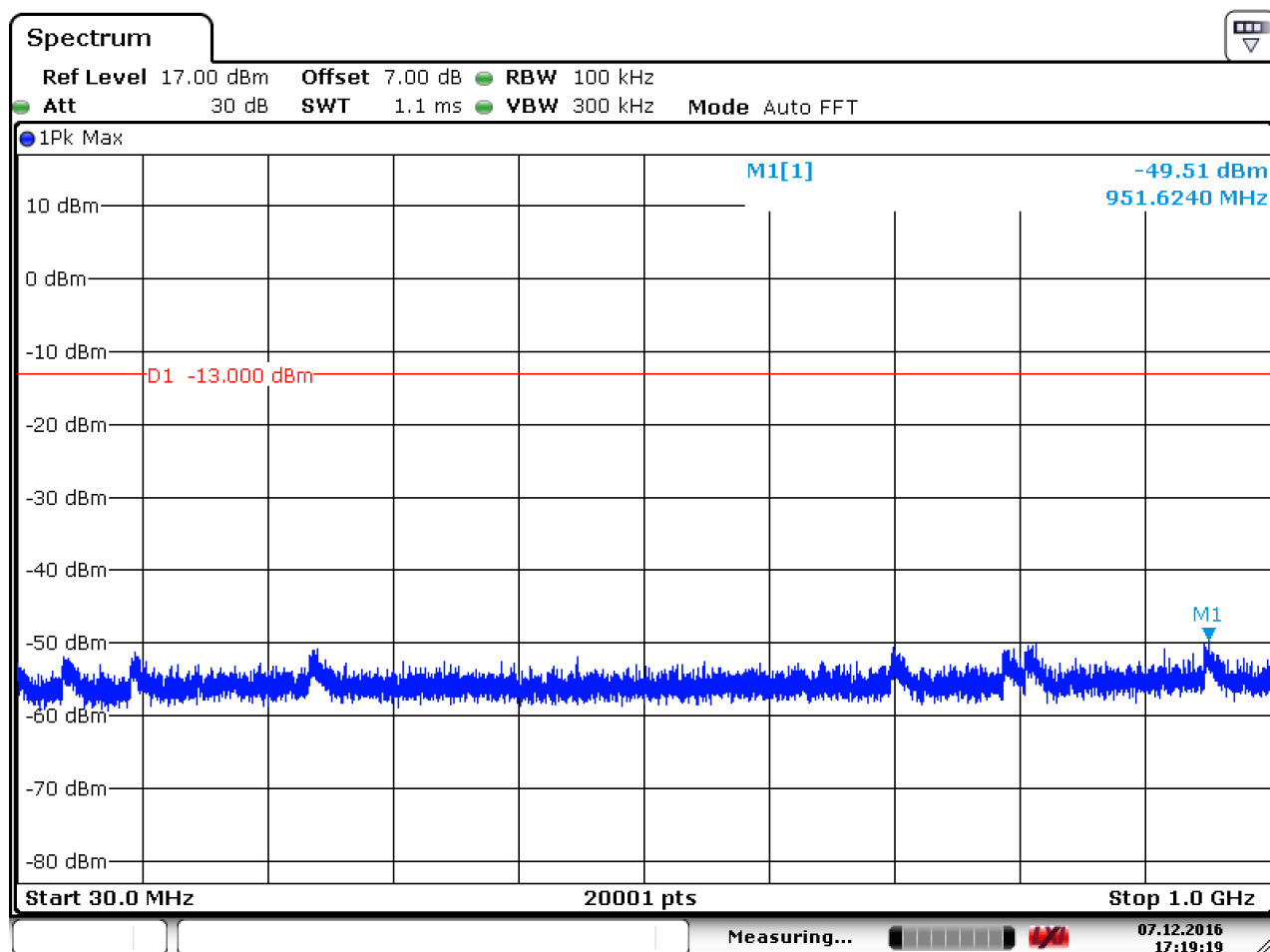


Date: 7.DEC.2016 17:44:06

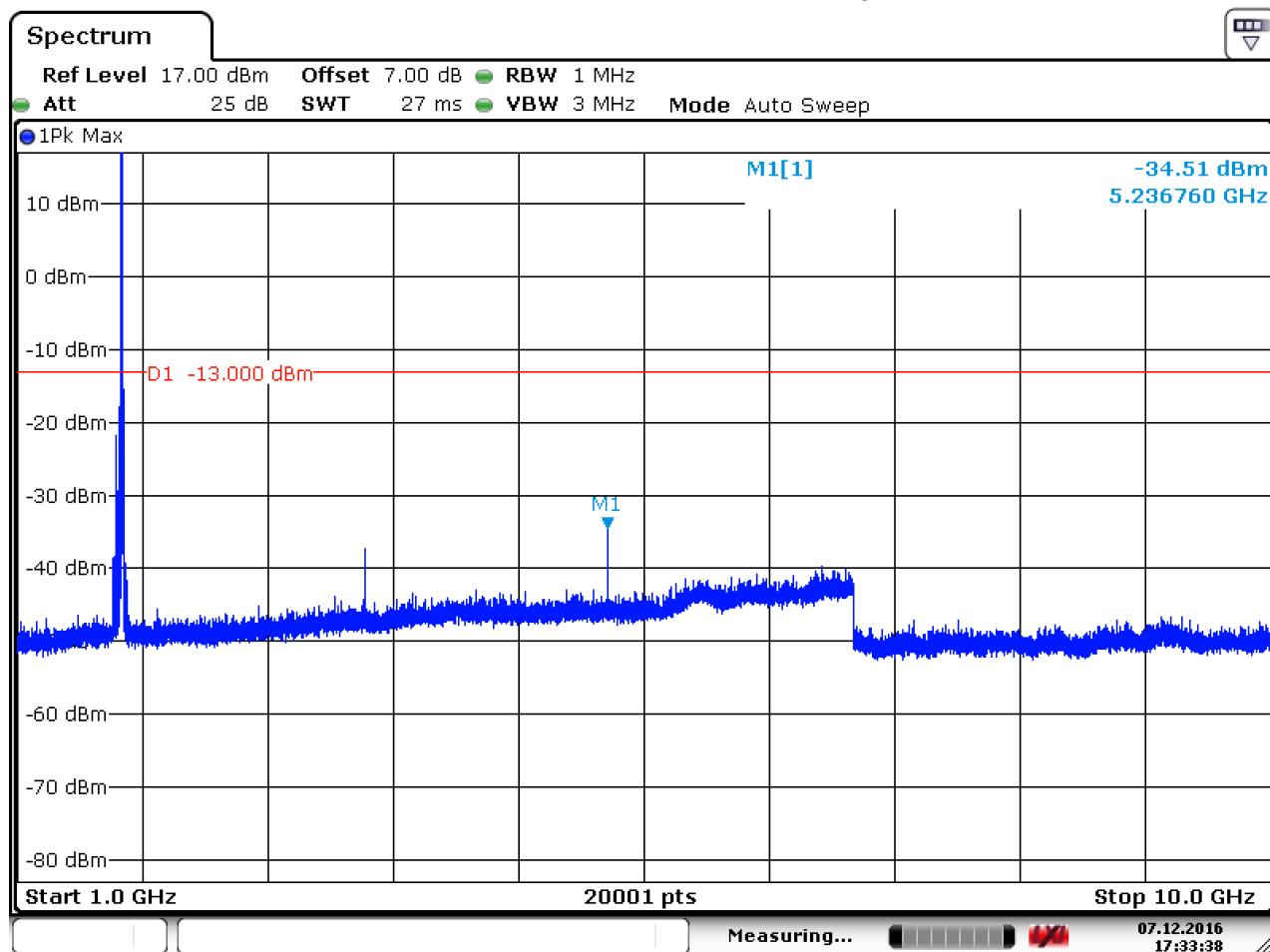
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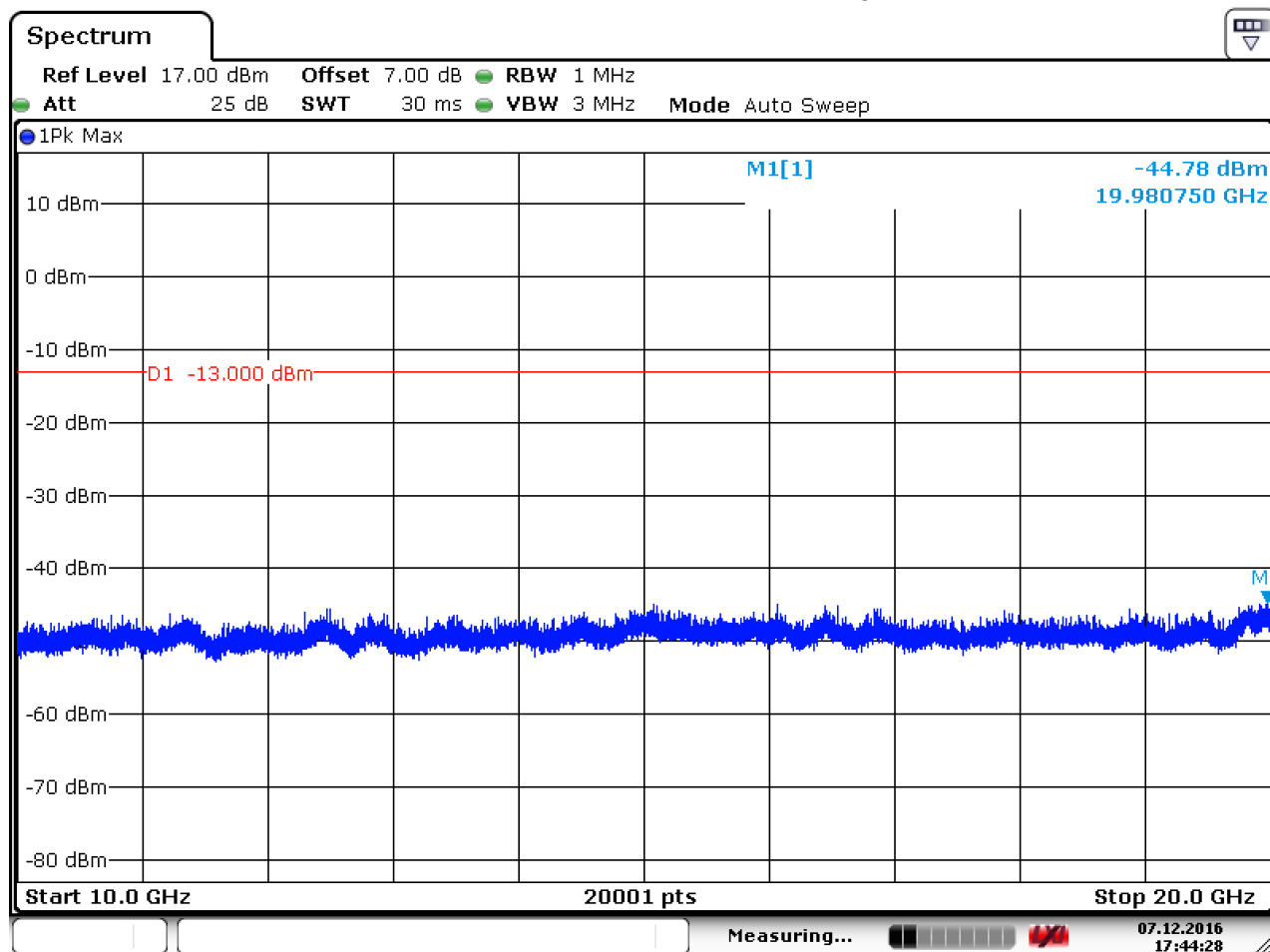
6.1.1.4.3 Test Channel = HCH



Date: 7.DEC.2016 17:19:19



Date: 7.DEC.2016 17:33:38

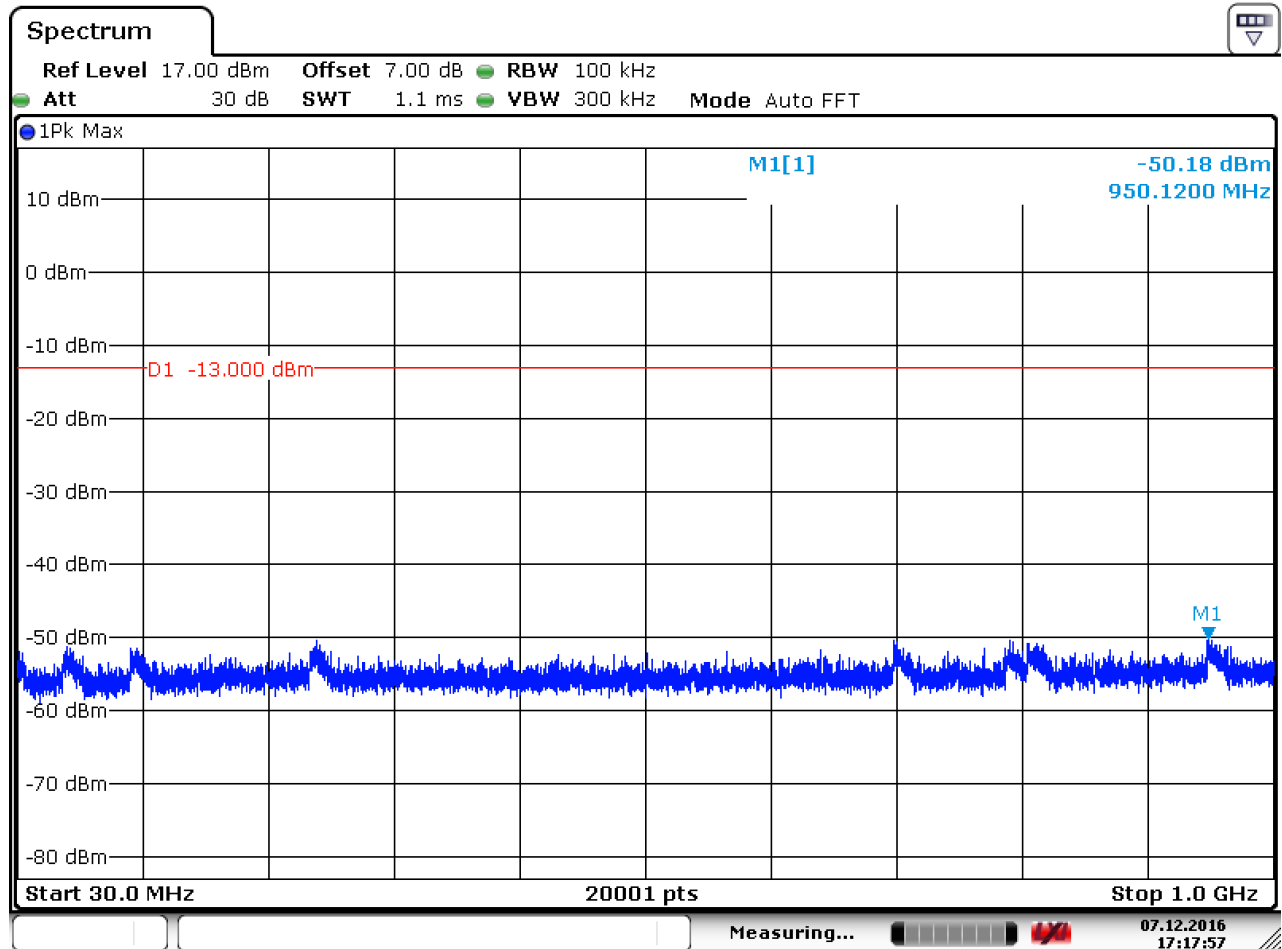


Date: 7.DEC.2016 17:44:28

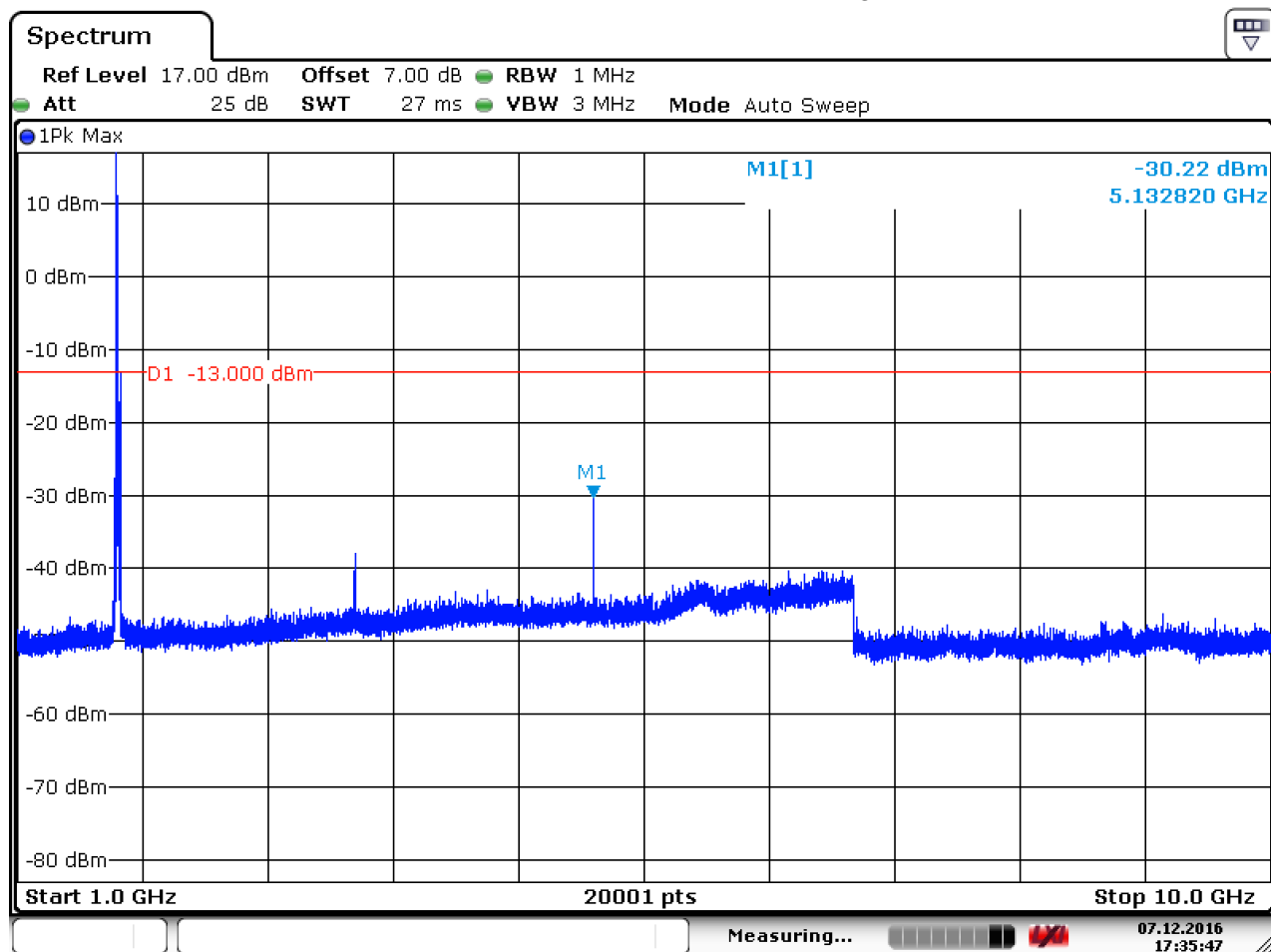


6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.5.1 Test Channel = LCH



Date: 7.DEC.2016 17:17:57

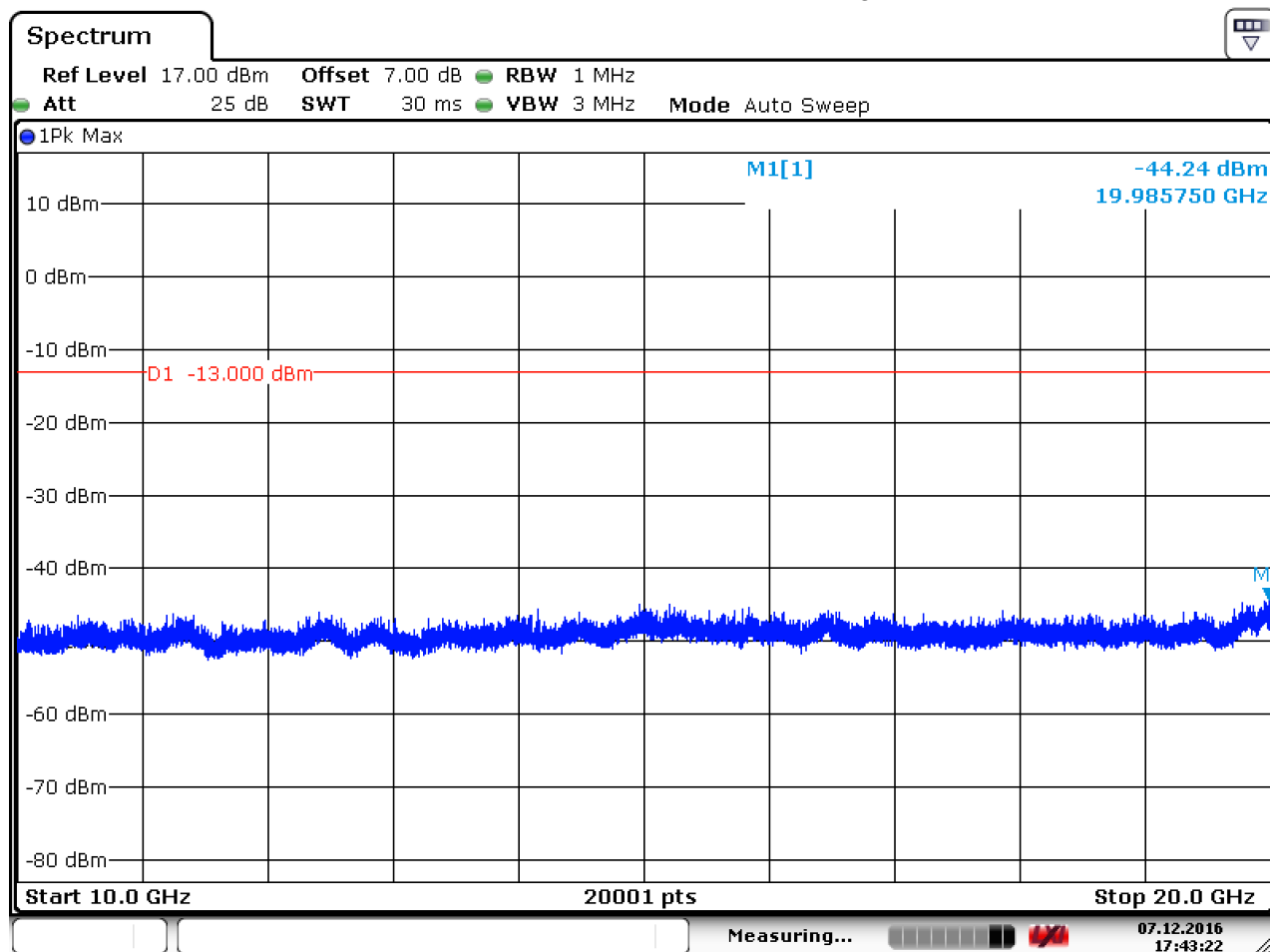


Date: 7.DEC.2016 17:35:48



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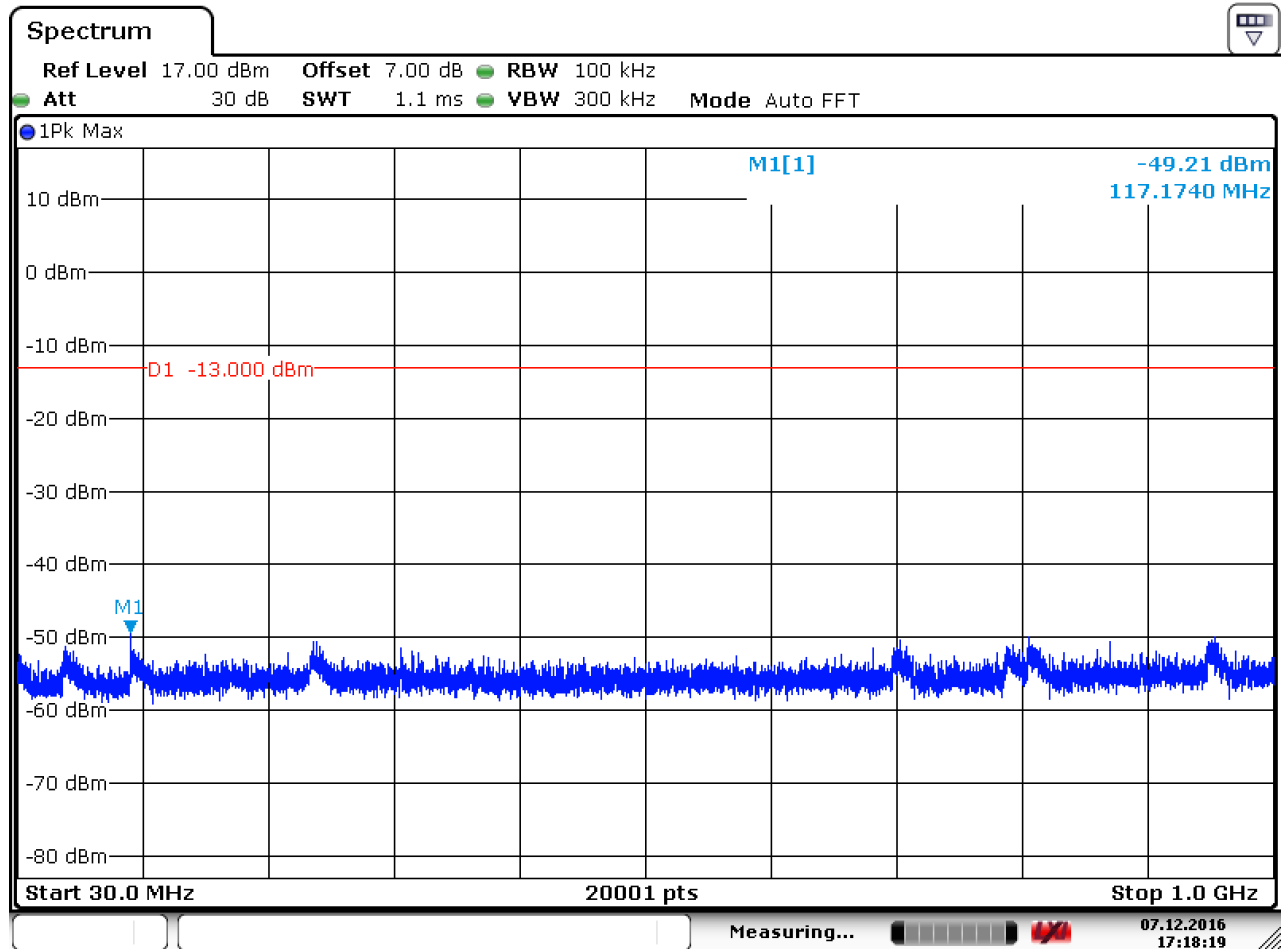


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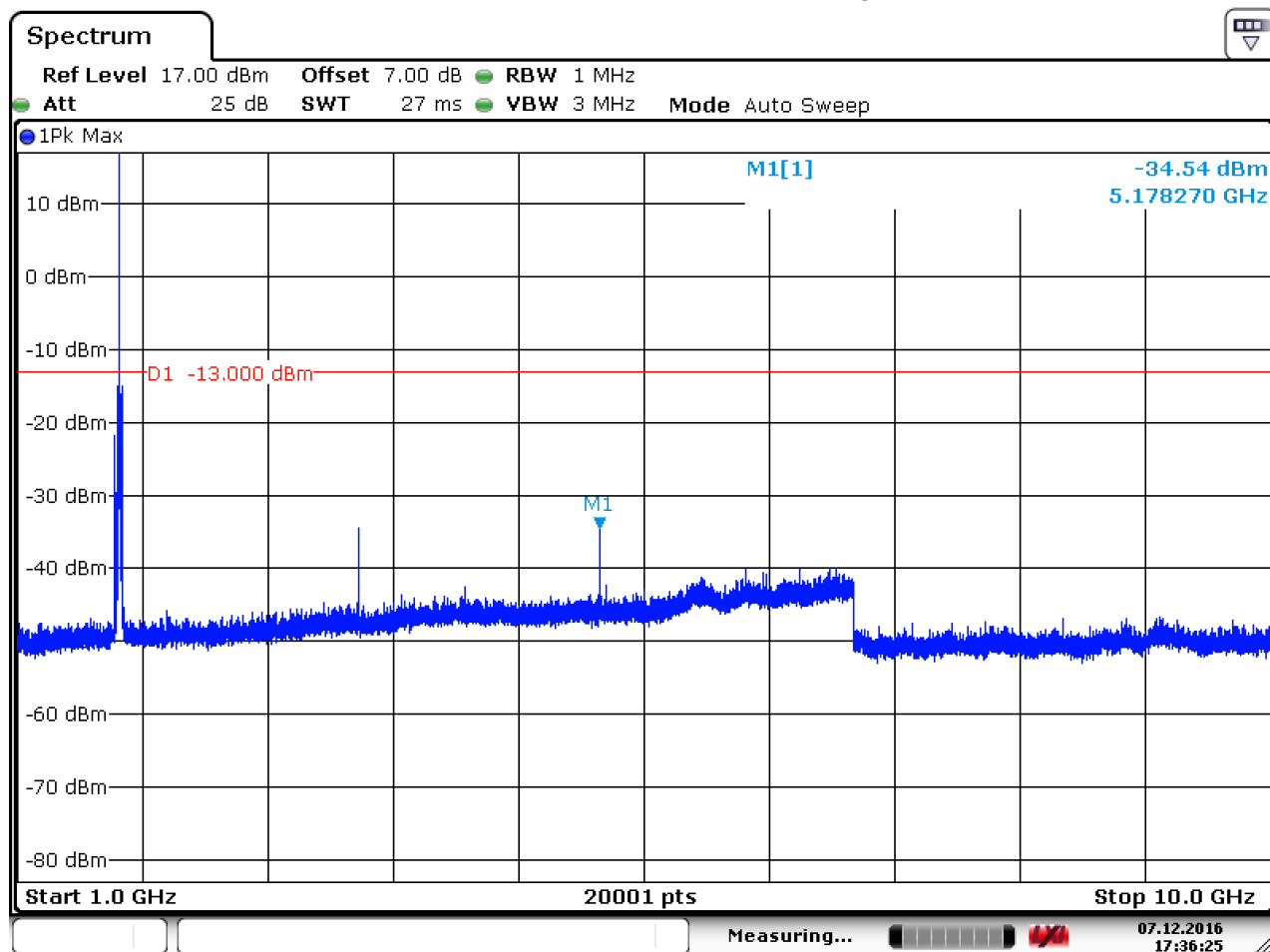
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6.1.1.5.2 Test Channel = MCH



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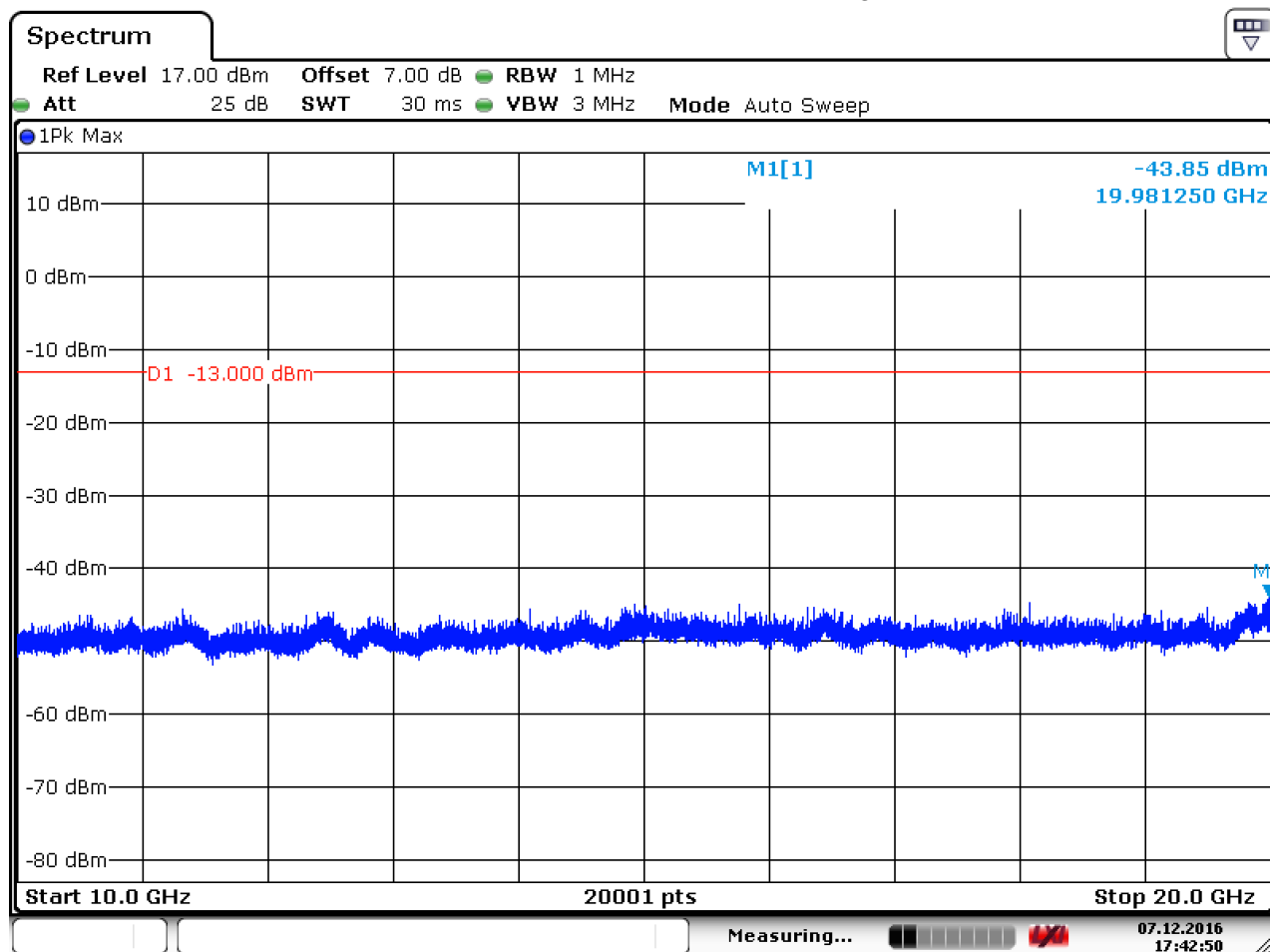


Date: 7.DEC.2016 17:36:25



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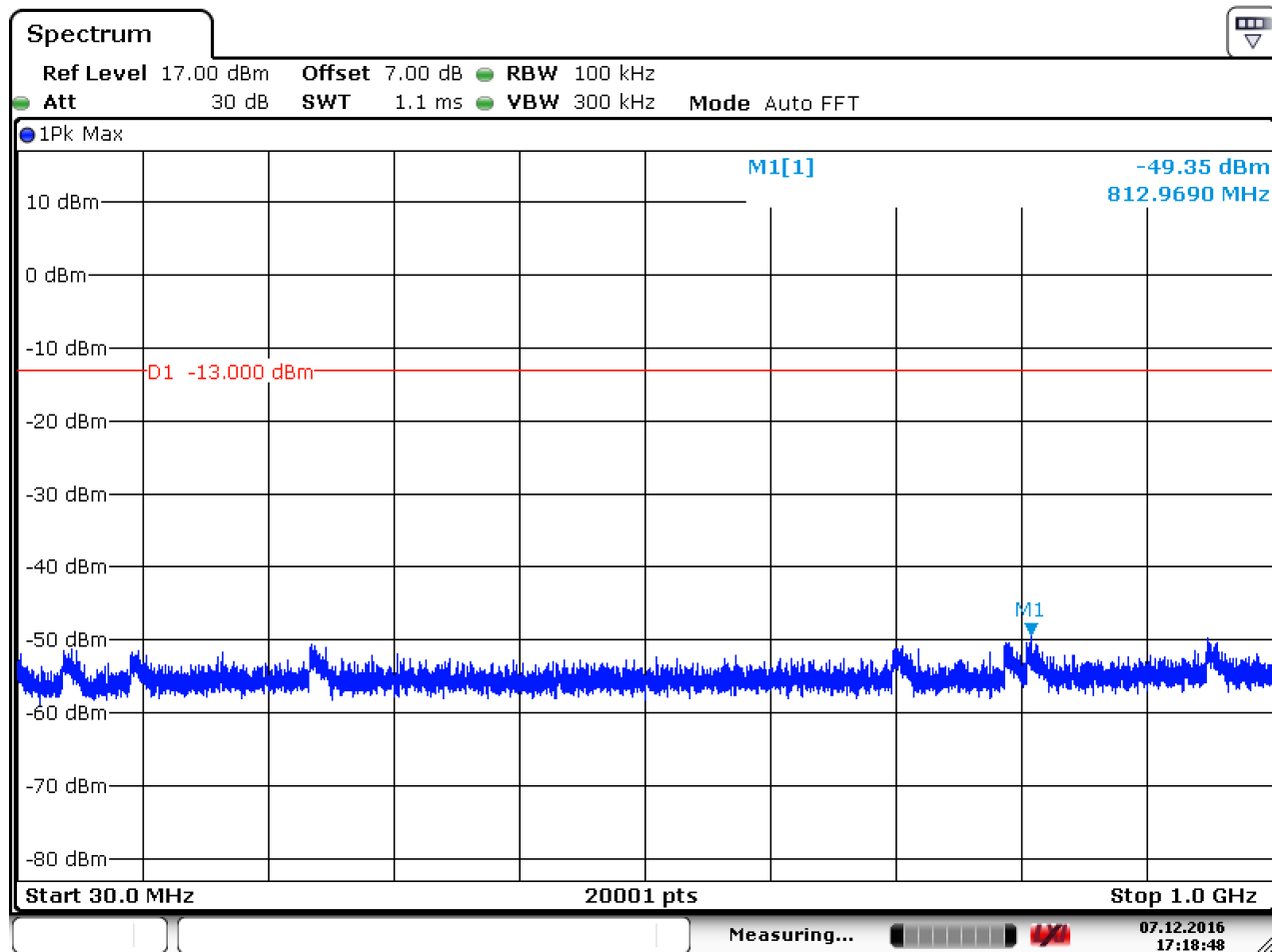


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6.1.1.5.3 Test Channel = HCH



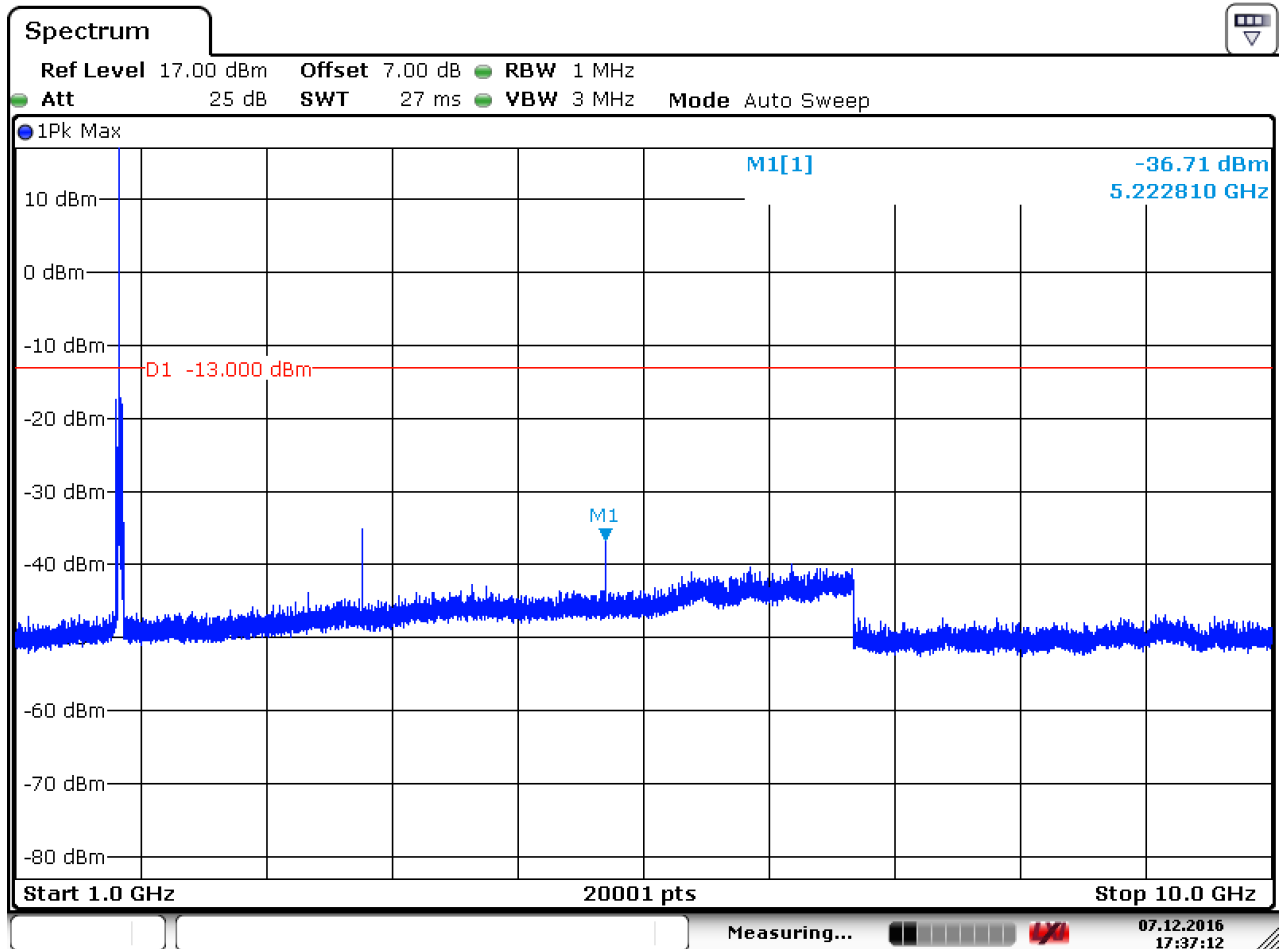
Date: 7.DEC.2016 17:18:49



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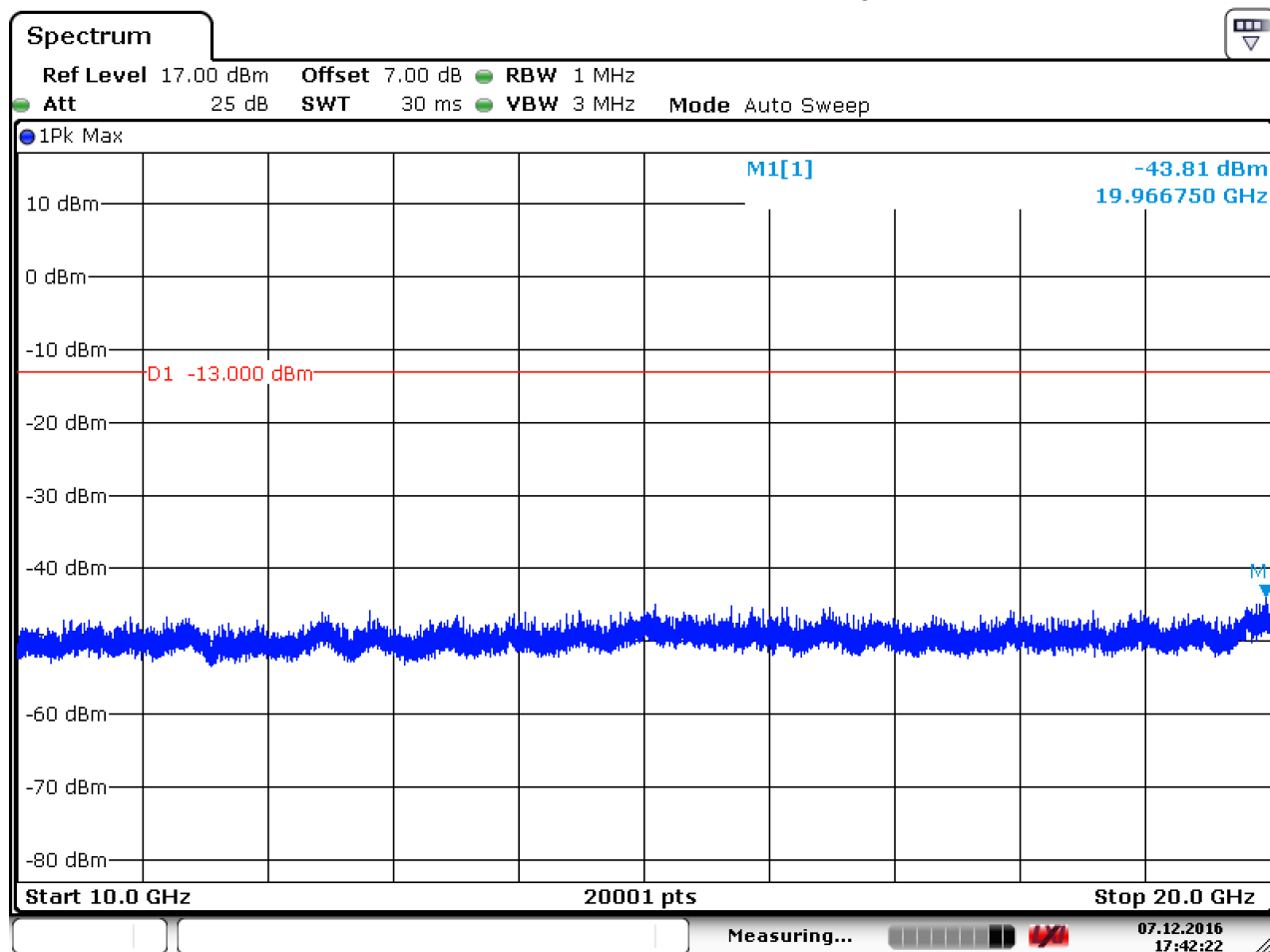
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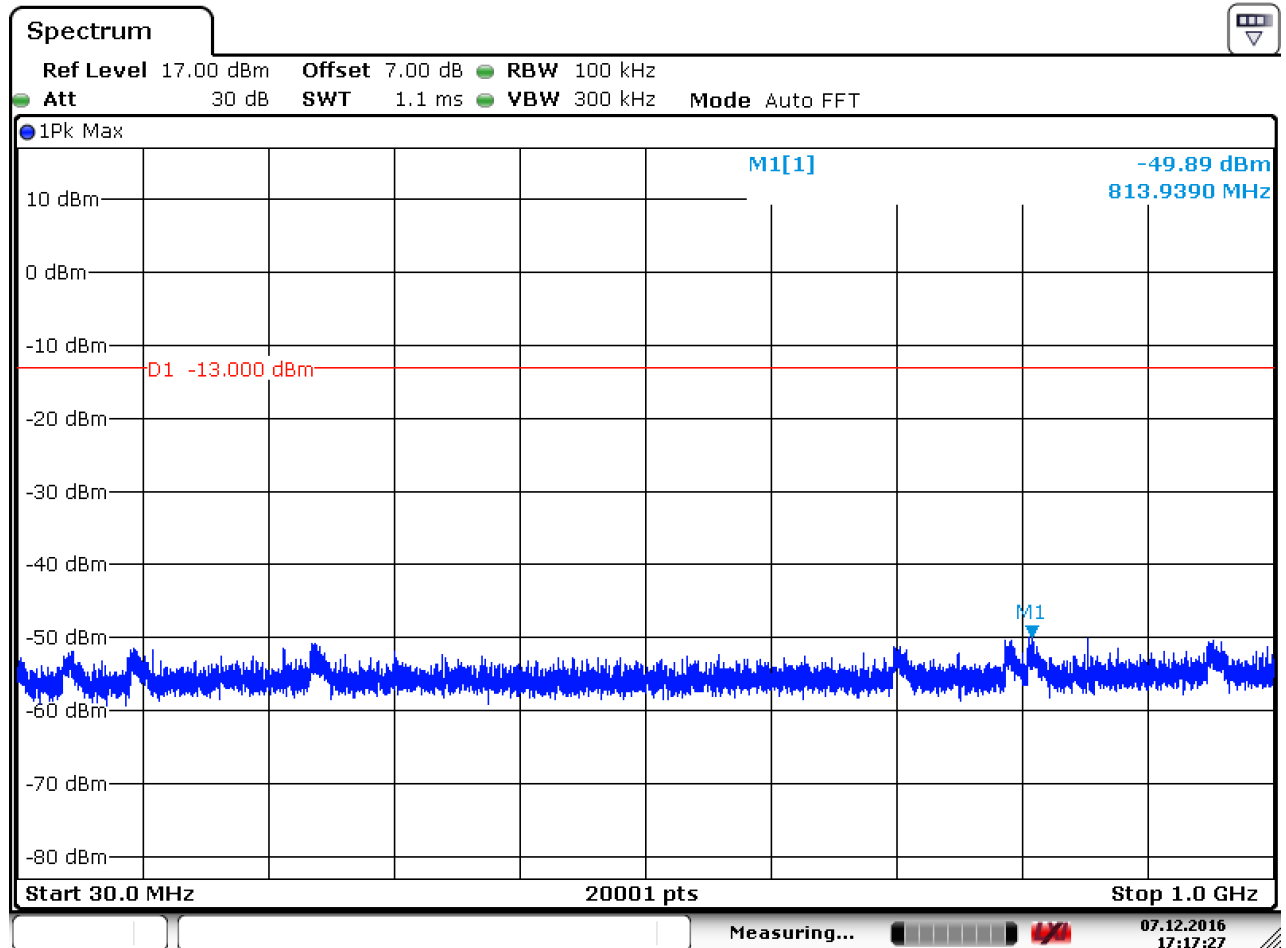


Date: 7.DEC.2016 17:42:22

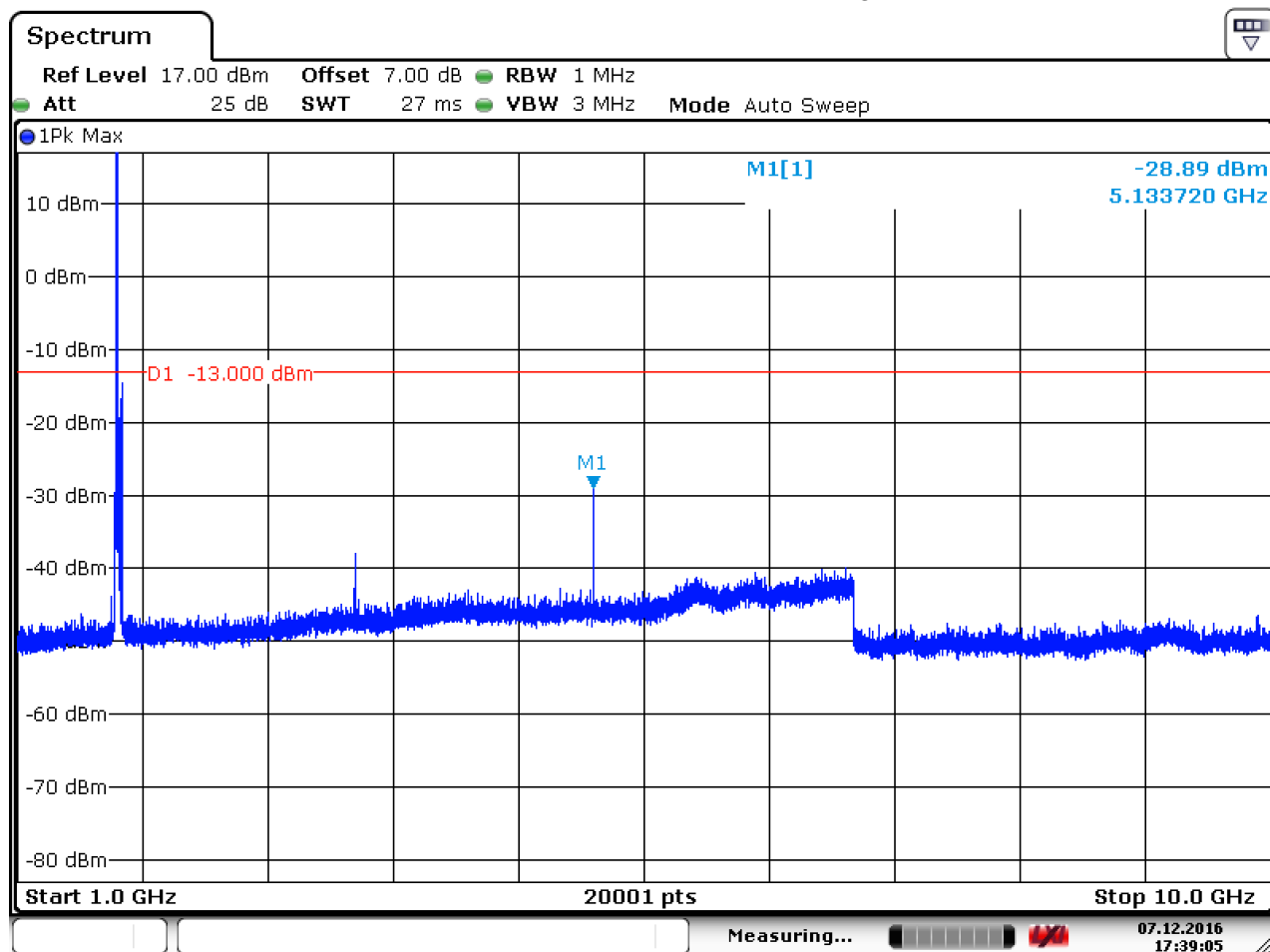


6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.6.1 Test Channel = LCH



Date: 7.DEC.2016 17:17:27

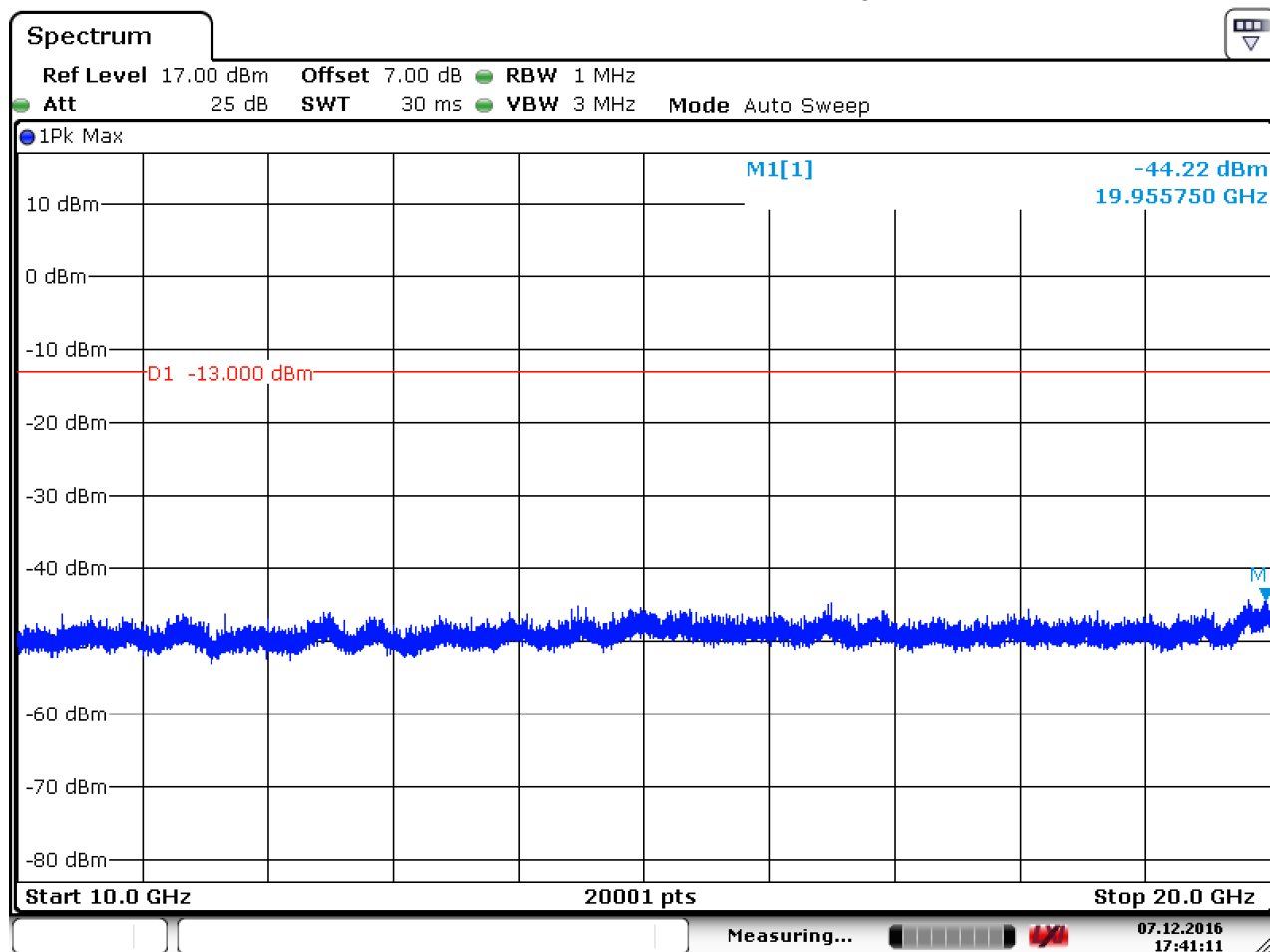


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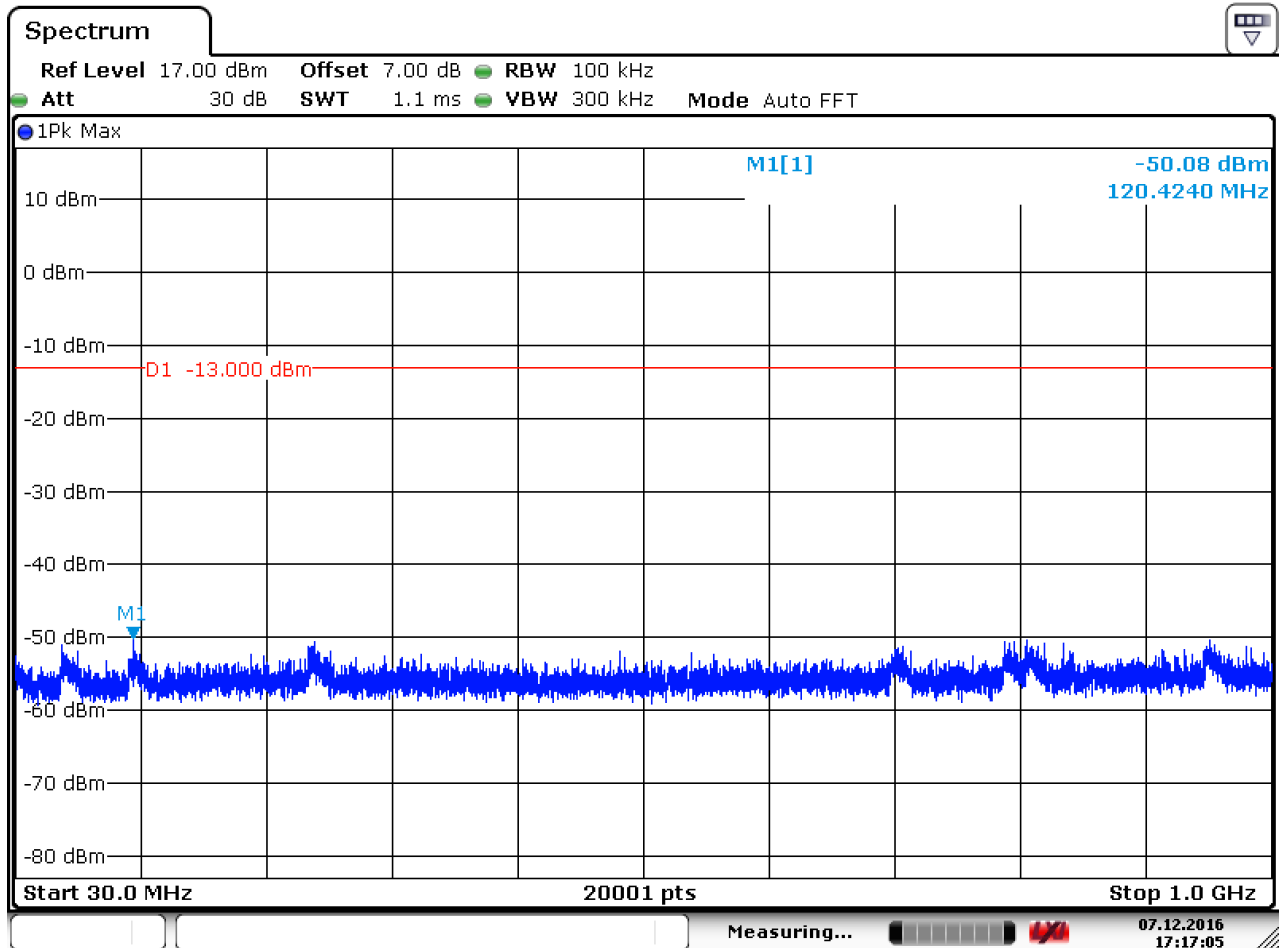


Date: 7.DEC.2016 17:41:12

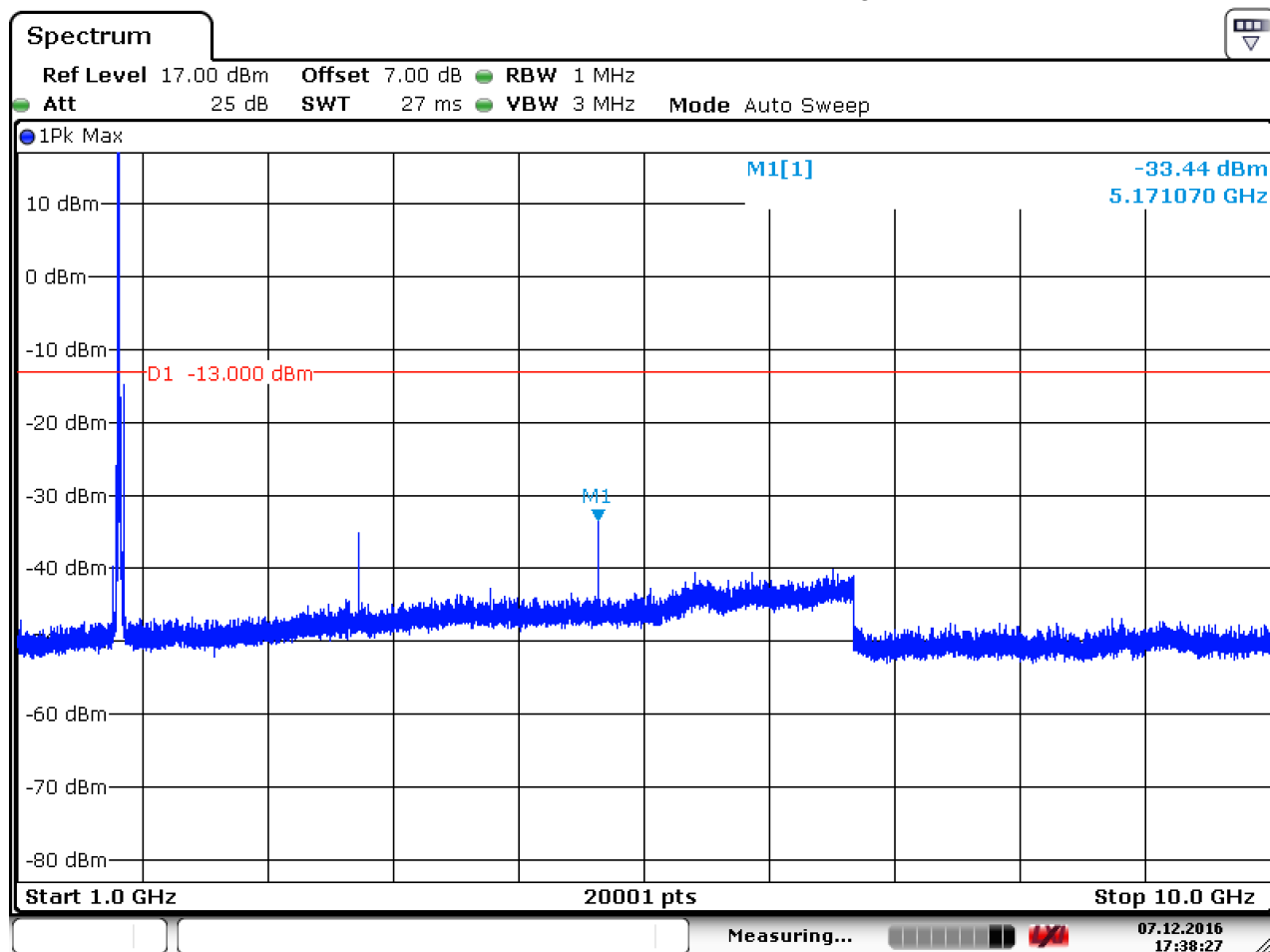
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6.1.1.6.2 Test Channel = MCH



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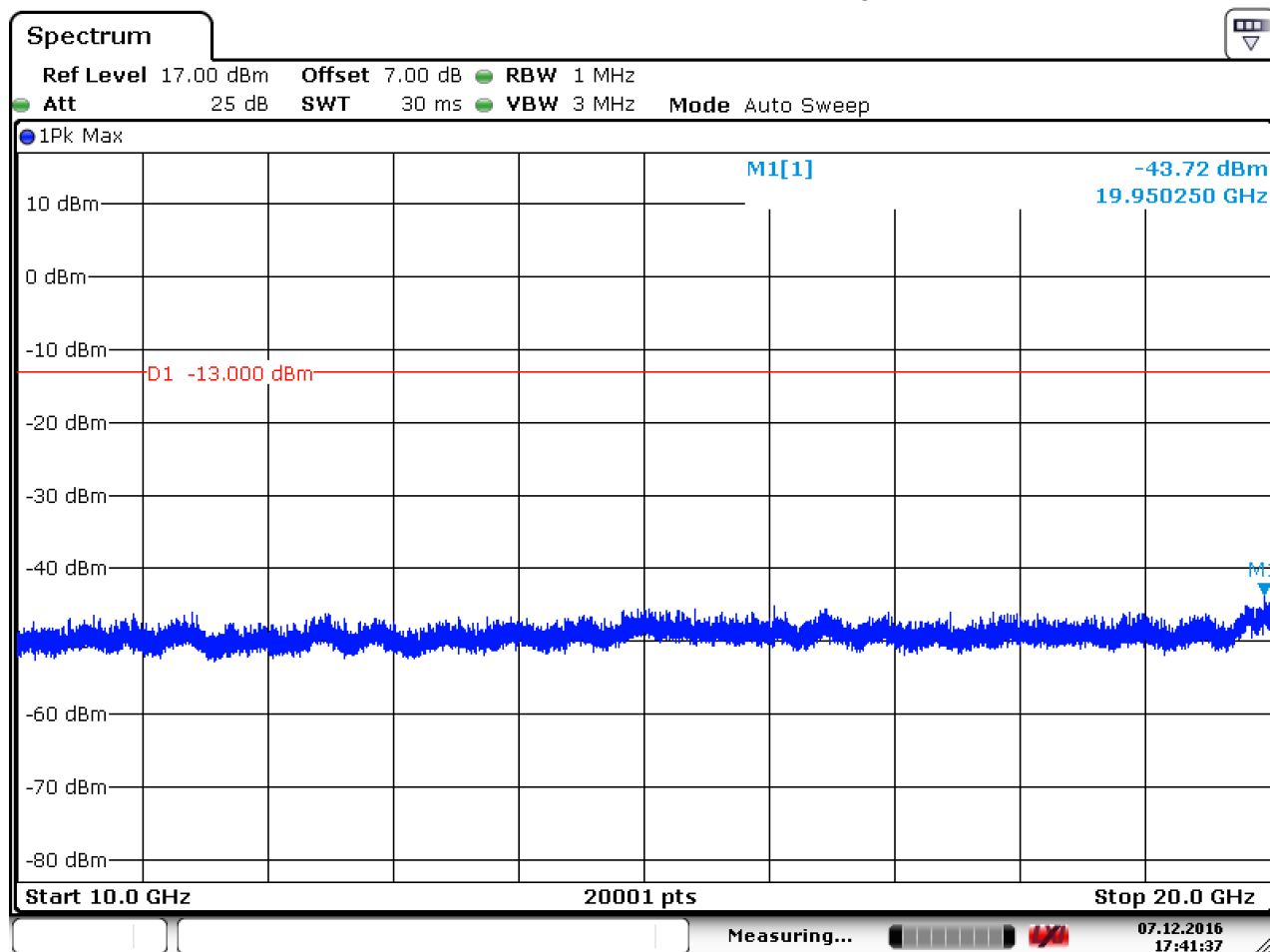


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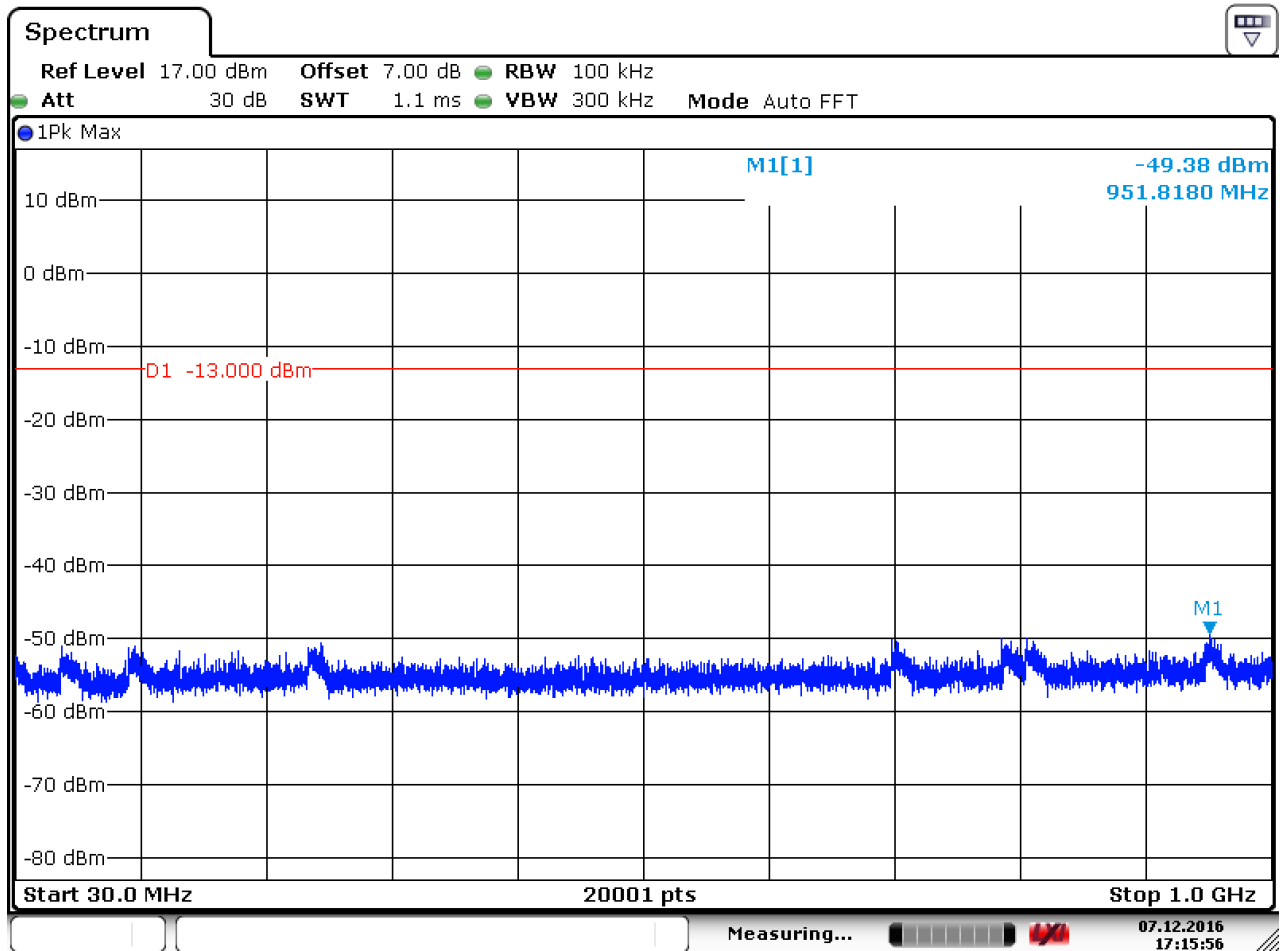


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6.1.1.6.3 Test Channel = HCH



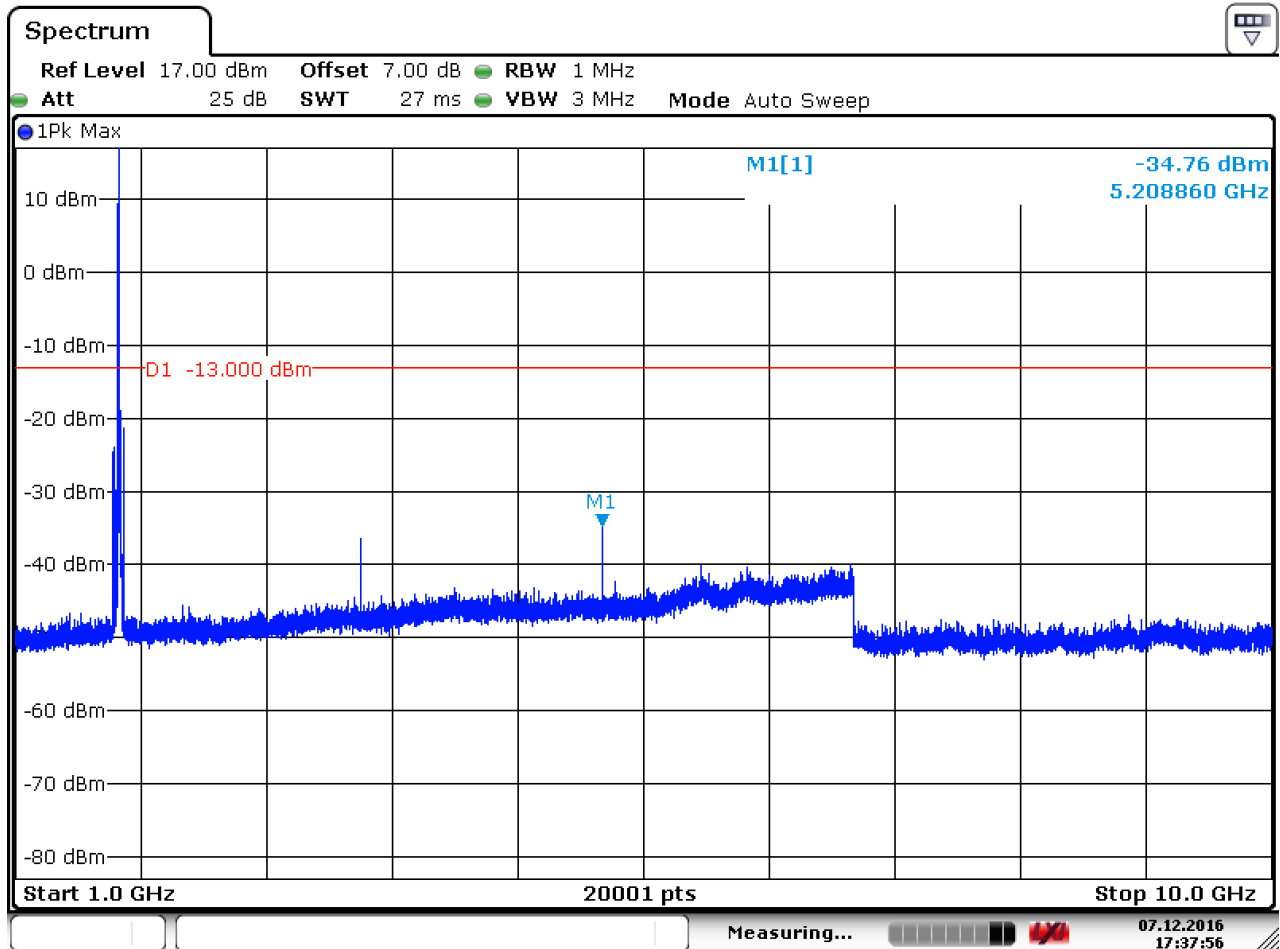
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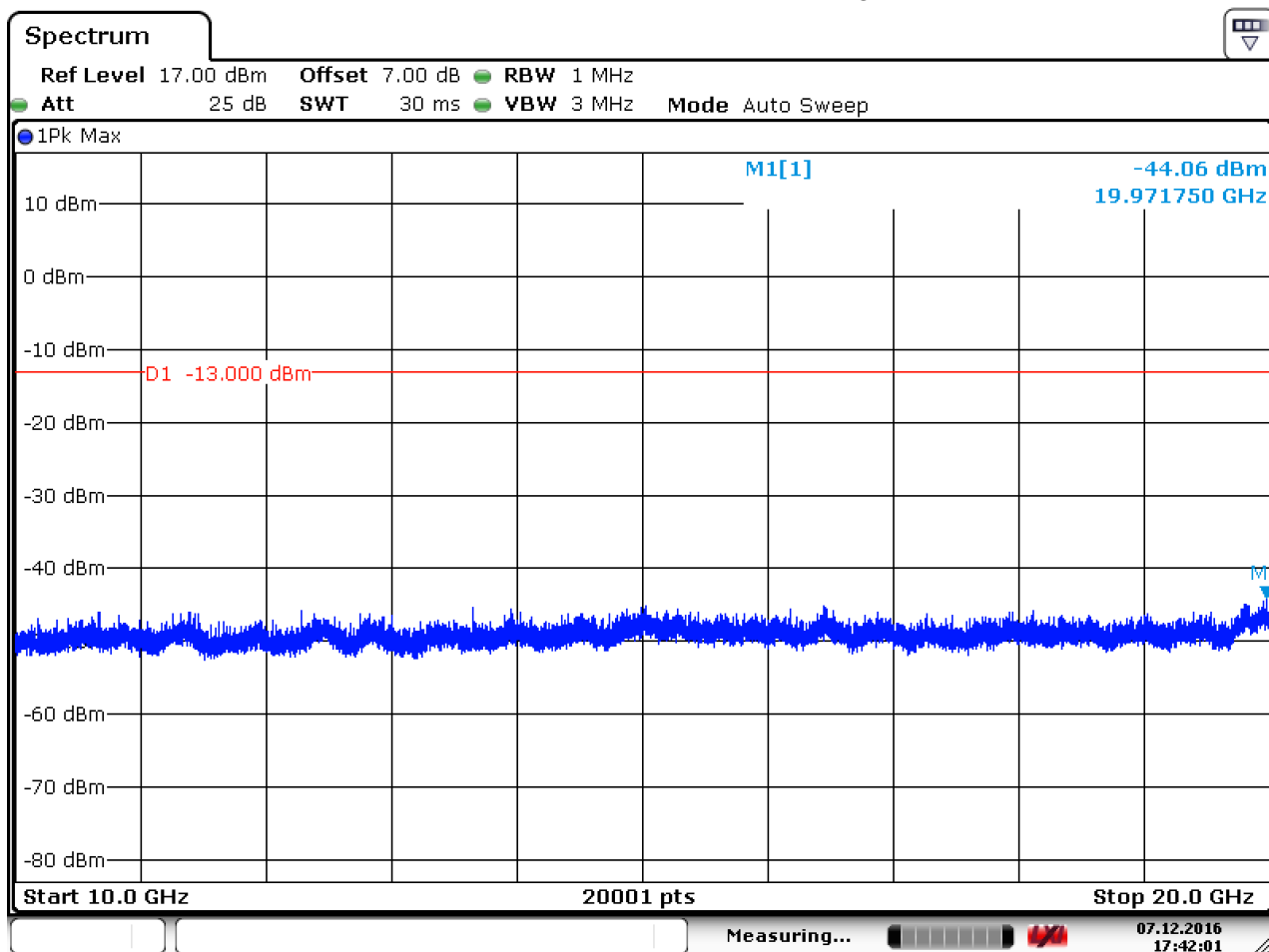
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band4

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
5827.500	-67.26	-13.00	54.26	Vertical
7290.000	-65.77	-13.00	52.77	Vertical
8947.500	-65.63	-13.00	52.63	Vertical
1232.000	-67.36	-13.00	54.36	Horizontal
3585.000	-69.18	-13.00	56.18	Horizontal
6022.500	-66.51	-13.00	53.51	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1095.000	-67.81	-13.00	54.81	Vertical
1551.000	-66.51	-13.00	53.51	Vertical
1793.000	-63.66	-13.00	50.66	Vertical
1661.000	-65.06	-13.00	52.06	Horizontal
1991.000	-62.88	-13.00	49.88	Horizontal
4657.500	-67.92	-13.00	54.92	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1496.000	-66.58	-13.00	53.58	Vertical
1738.000	-64.15	-13.00	51.15	Vertical
3975.000	-68.39	-13.00	55.39	Vertical
1408.000	-67.34	-13.00	54.34	Horizontal
2656.000	-58.00	-13.00	45.00	Horizontal
7485.000	-66.46	-13.00	53.46	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band 4	LTE/TM1 20MHz	LCH	TN	VL	-3.12	-0.00181	PASS
				VN	1.26	0.00073	PASS
				VH	-5.83	-0.00339	PASS
		MCH	TN	VL	1.33	0.00077	PASS
				VN	-2.38	-0.00137	PASS
				VH	2.55	0.00147	PASS
		HCH	TN	VL	-6.28	-0.00360	PASS
				VN	-5.13	-0.00294	PASS
				VH	-1.29	-0.00074	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.23	-0.00246	PASS
				VN	-2.25	-0.00131	PASS
				VH	-4.56	-0.00265	PASS
		MCH	TN	VL	1.33	0.00077	PASS
				VN	-3.00	-0.00173	PASS
				VH	2.19	0.00126	PASS
		HCH	TN	VL	-3.22	-0.00185	PASS
				VN	-6.86	-0.00393	PASS
				VH	1.04	0.00060	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
LTEband4	LTE/TM1 20MHz	LCH	VN	-30	-5.20	-0.00302	PASS
				-20	-4.88	-0.00284	PASS
				-10	2.39	0.00139	PASS
				0	1.35	0.00078	PASS
				10	-2.65	-0.00154	PASS
				20	0.43	0.00025	PASS
				30	-4.31	-0.00251	PASS
				40	-2.14	-0.00124	PASS
				50	3.59	0.00209	PASS
		MCH	VN	-30	-2.58	-0.00149	PASS
				-20	-3.91	-0.00226	PASS
				-10	-5.28	-0.00305	PASS
				0	-3.59	-0.00207	PASS
				10	-4.28	-0.00247	PASS
				20	-2.91	-0.00168	PASS
				30	-4.26	-0.00246	PASS
				40	-5.72	-0.00330	PASS
				50	-6.98	-0.00403	PASS
		HCH	VN	-30	0.38	0.00022	PASS
				-20	-2.26	-0.00130	PASS
				-10	1.57	0.00090	PASS
				0	-2.53	-0.00145	PASS
				10	2.96	0.00170	PASS
				20	-1.38	-0.00079	PASS
				30	-2.67	-0.00153	PASS
				40	-5.18	-0.00297	PASS
				50	-7.55	-0.00433	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband4	LTE/TM2 20MHz	LCH	VN	-30	-0.76	-0.00044	PASS
				-20	-2.15	-0.00125	PASS
				-10	3.38	0.00197	PASS
				0	2.64	0.00153	PASS
				10	1.60	0.00093	PASS
				20	-0.23	-0.00013	PASS
				30	-2.54	-0.00148	PASS
				40	5.38	0.00313	PASS
				50	1.79	0.00104	PASS
		MCH	VN	-30	-3.80	-0.00219	PASS
				-20	-5.25	-0.00303	PASS
				-10	-3.22	-0.00186	PASS
				0	-4.31	-0.00249	PASS
				10	-1.84	-0.00106	PASS
				20	1.72	0.00099	PASS
				30	-3.86	-0.00223	PASS
				40	-2.35	-0.00136	PASS
				50	-3.23	-0.00186	PASS
		HCH	VN	-30	-3.34	-0.00191	PASS
				-20	-2.51	-0.00144	PASS
				-10	1.33	0.00076	PASS
				0	-3.73	-0.00214	PASS
				10	0.38	0.00022	PASS
				20	-1.47	-0.00084	PASS
				30	2.79	0.00160	PASS
				40	-4.93	-0.00283	PASS
				50	-8.50	-0.00487	PASS

The End

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