



5.1.1.10.1.2 Test RB=50RB

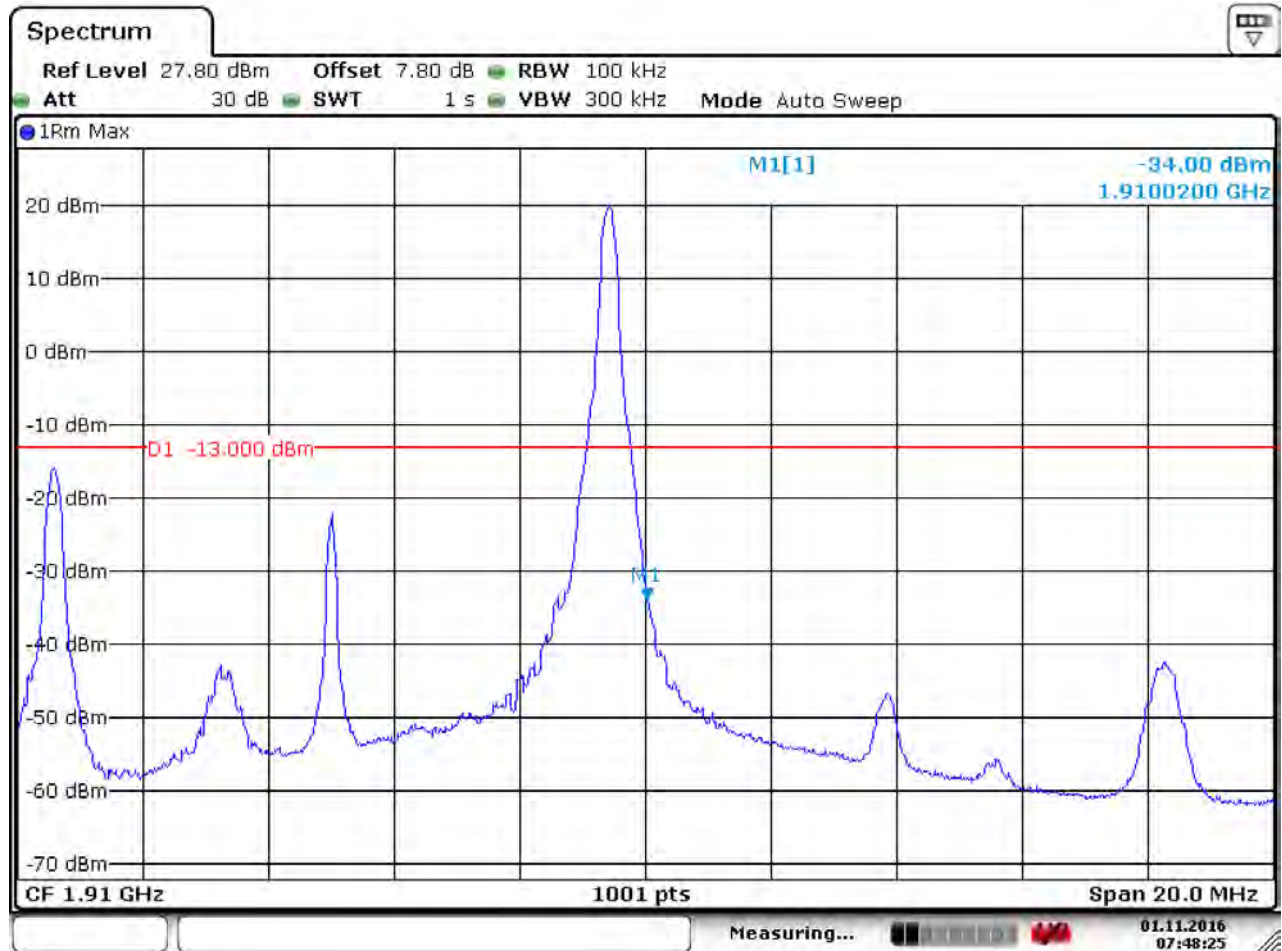


Date: 1.NOV.2016 07:44:08



5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 1.NOV.2016 07:48:26



5.1.1.10.2.2 Test RB=50RB



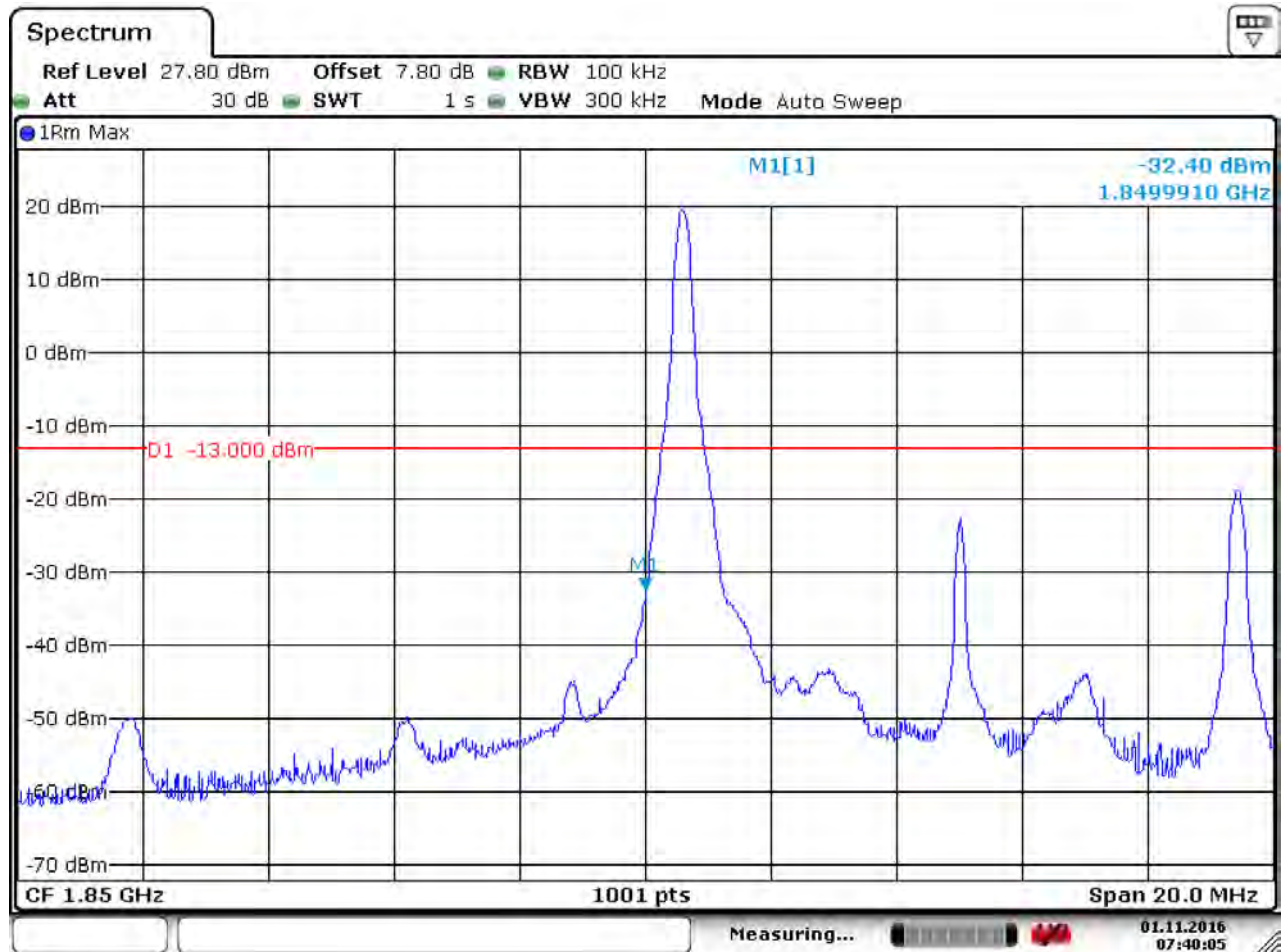
Date: 1.NOV.2016 07:44:08



5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

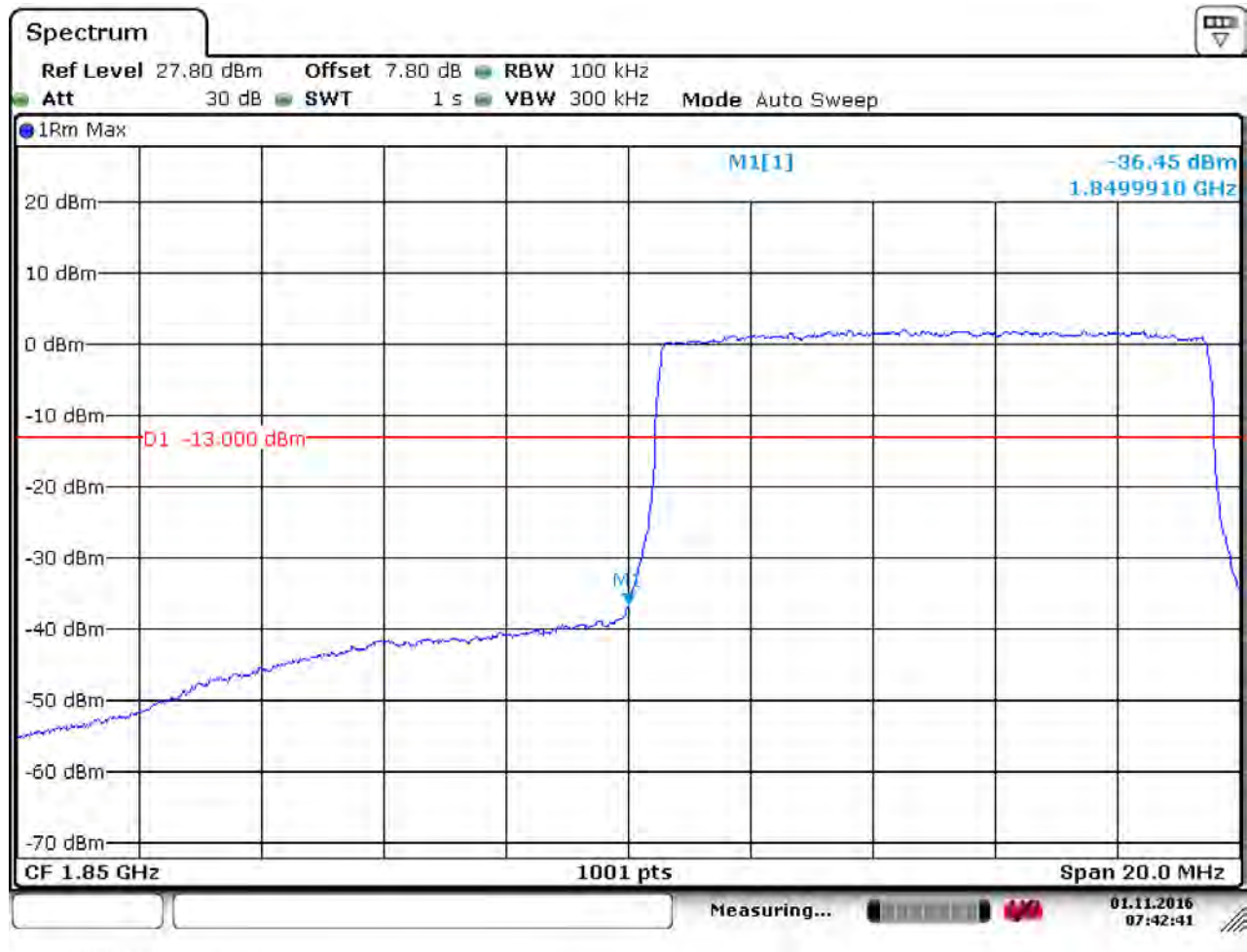
5.1.1.11.1.1 Test RB=1RB



Date: 1.NOV.2016 07:40:05



5.1.1.11.1.2 Test RB=50RB

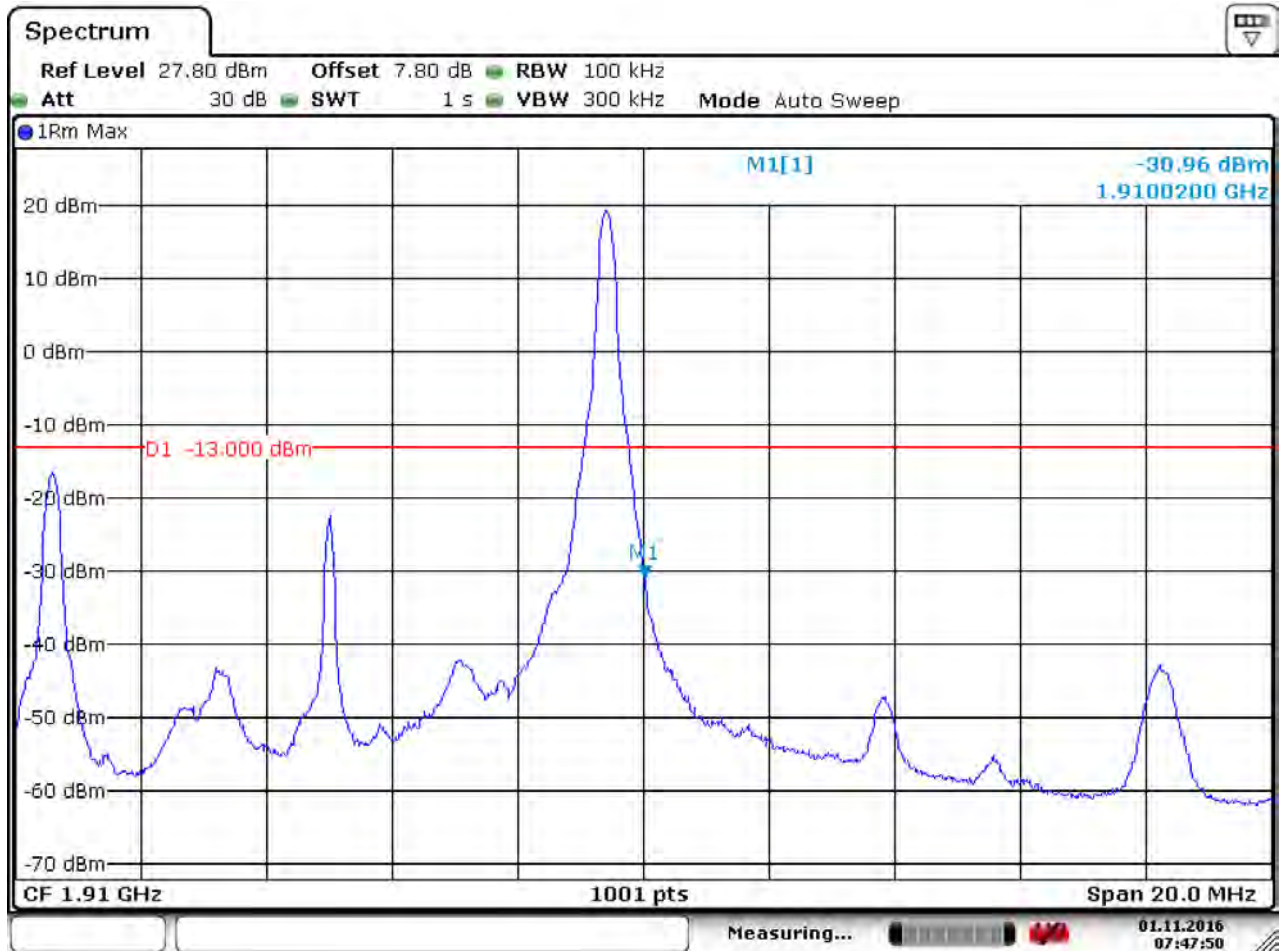


Date: 1.NOV.2016 07:42:41



5.1.1.11.2 Test Channel = HCH

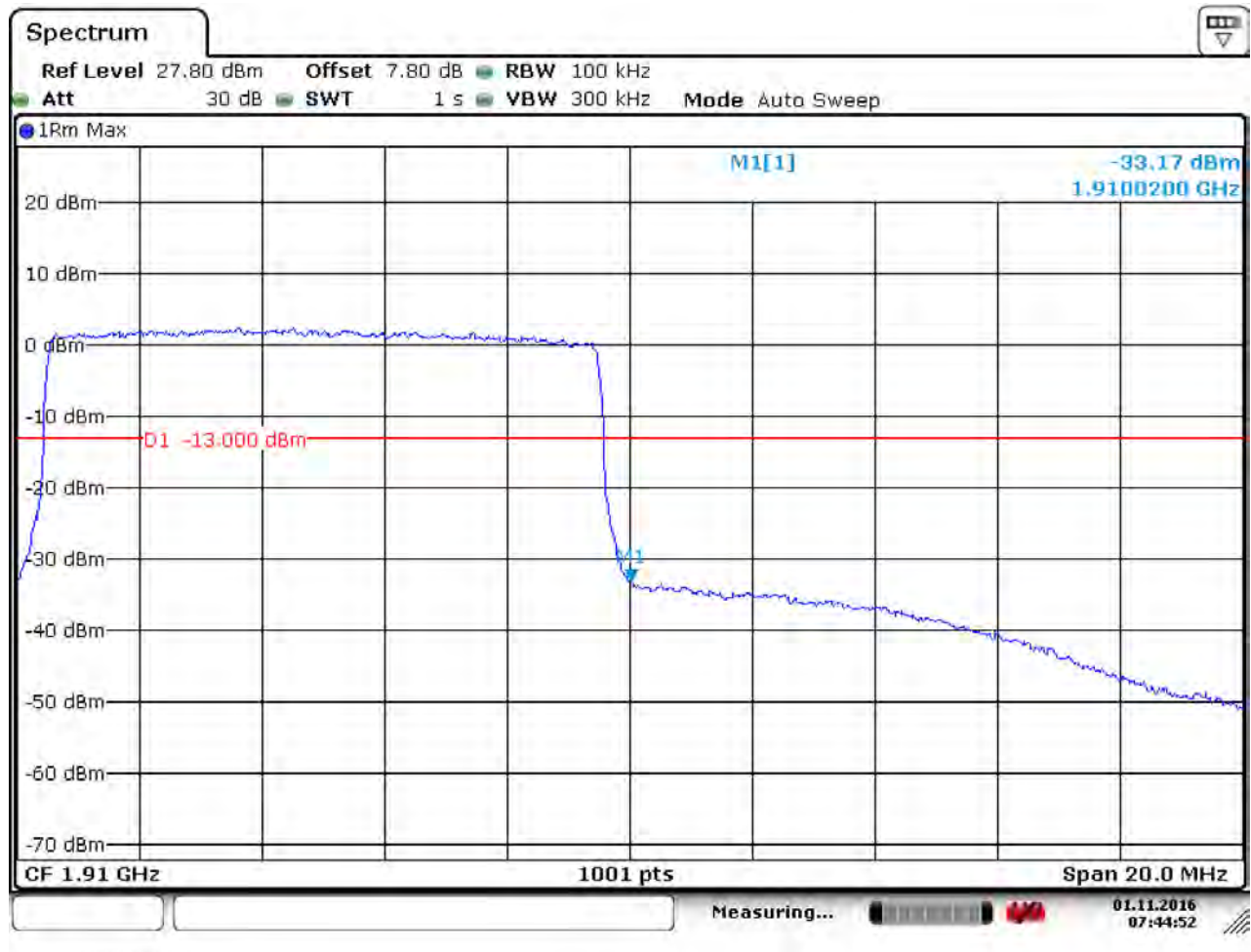
5.1.1.11.2.1 Test RB=1RB



Date: 1.NOV.2016 07:47:51



5.1.1.11.2.2 Test RB=50RB



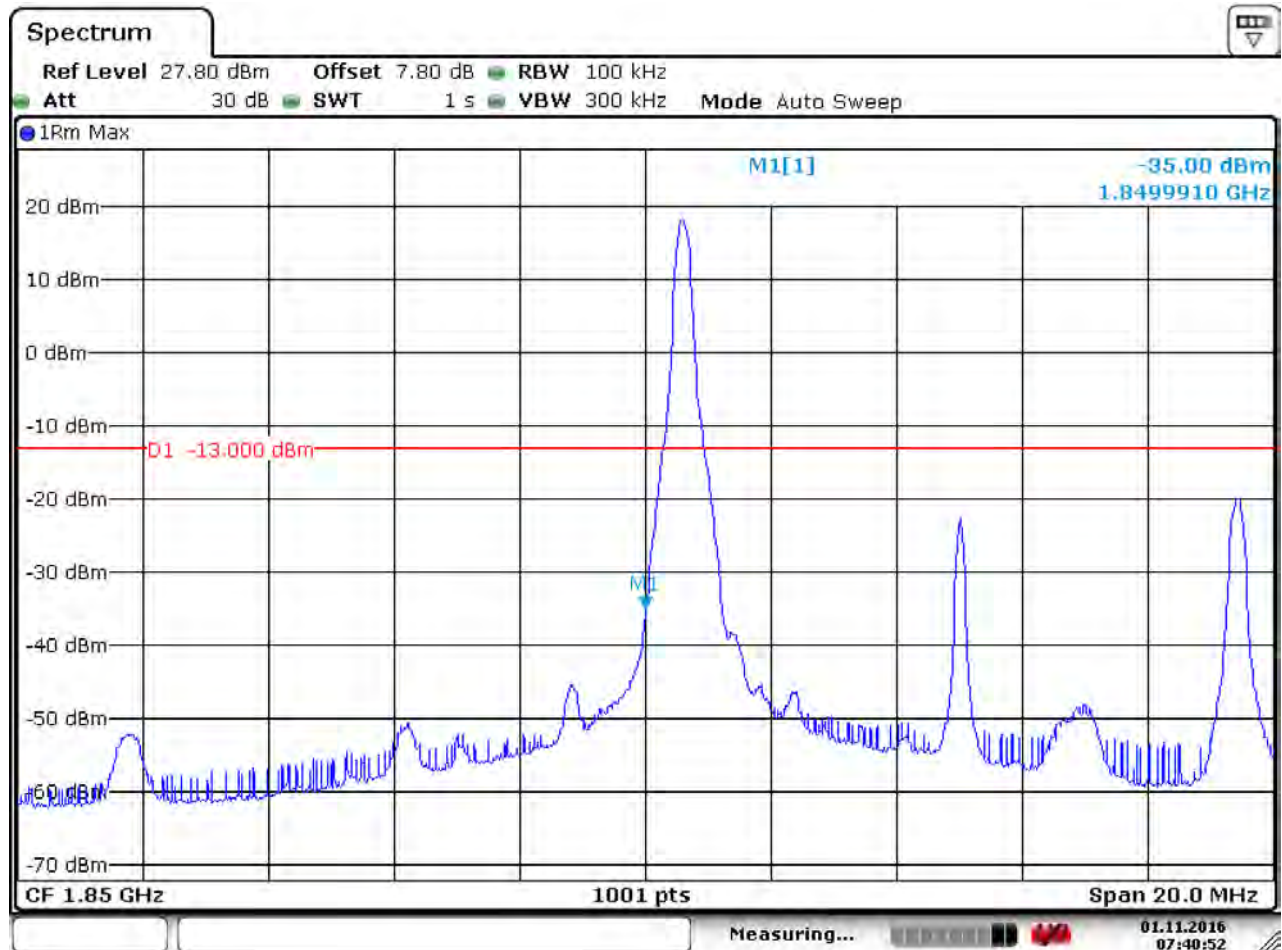
Date: 1.NOV.2016 07:44:53



5.1.1.12 Test Mode = LTE/TM3 10MHz

5.1.1.12.1 Test Channel = LCH

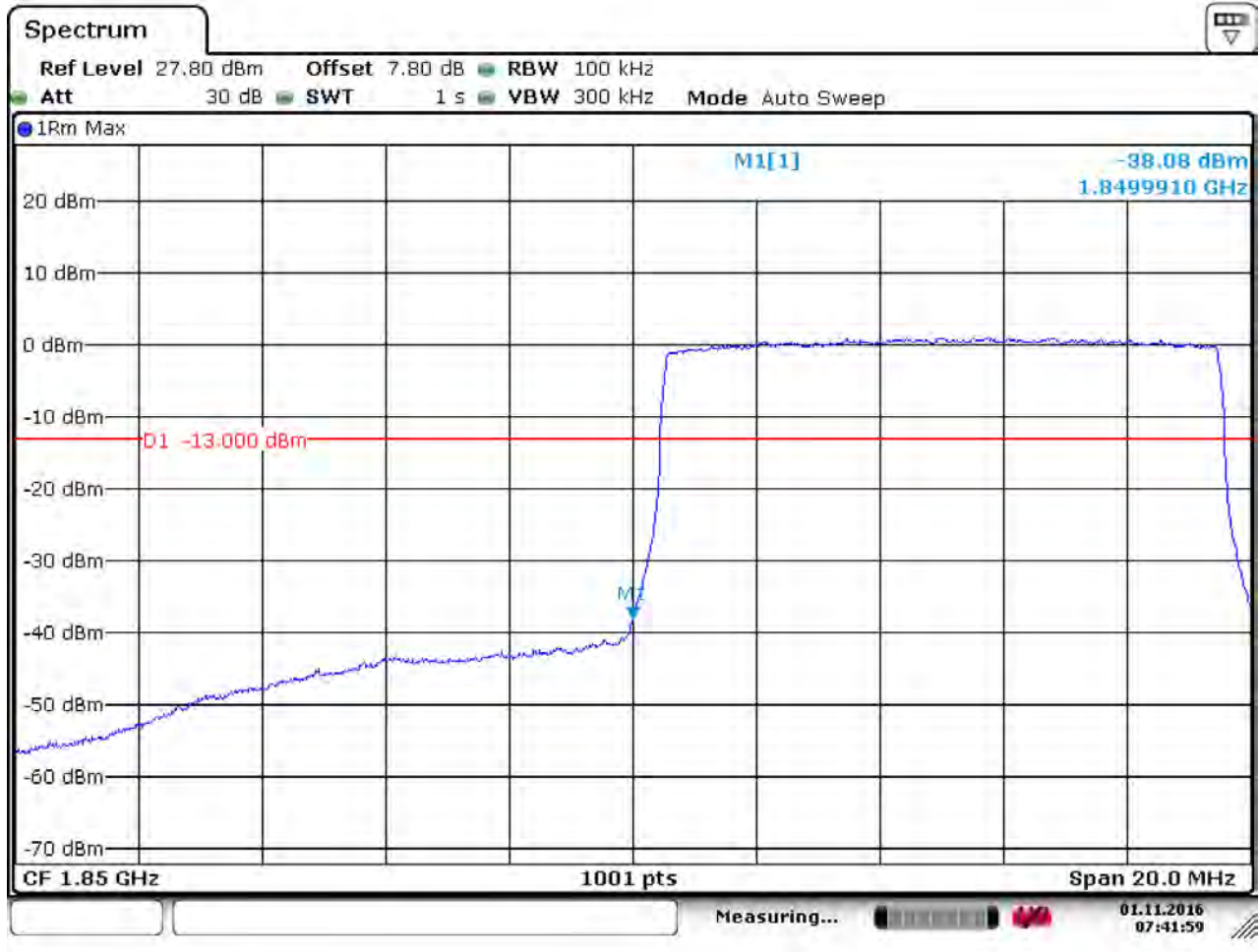
5.1.1.12.1.1 Test RB=1RB



Date: 1.NOV.2016 07:40:52



5.1.1.12.1.2 Test RB=50RB

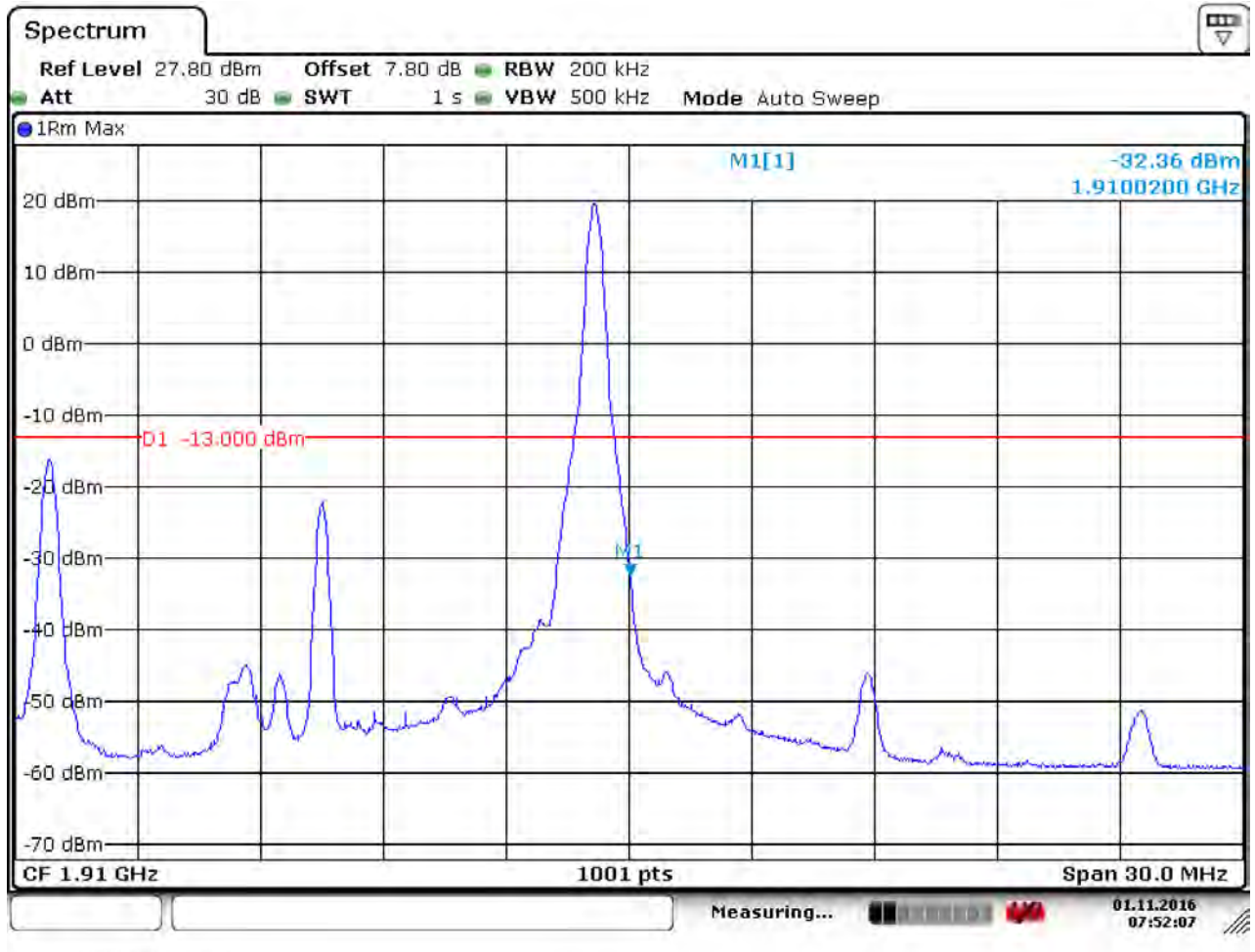


Date: 1.NOV.2016 07:41:59



5.1.1.12.2 Test Channel = HCH

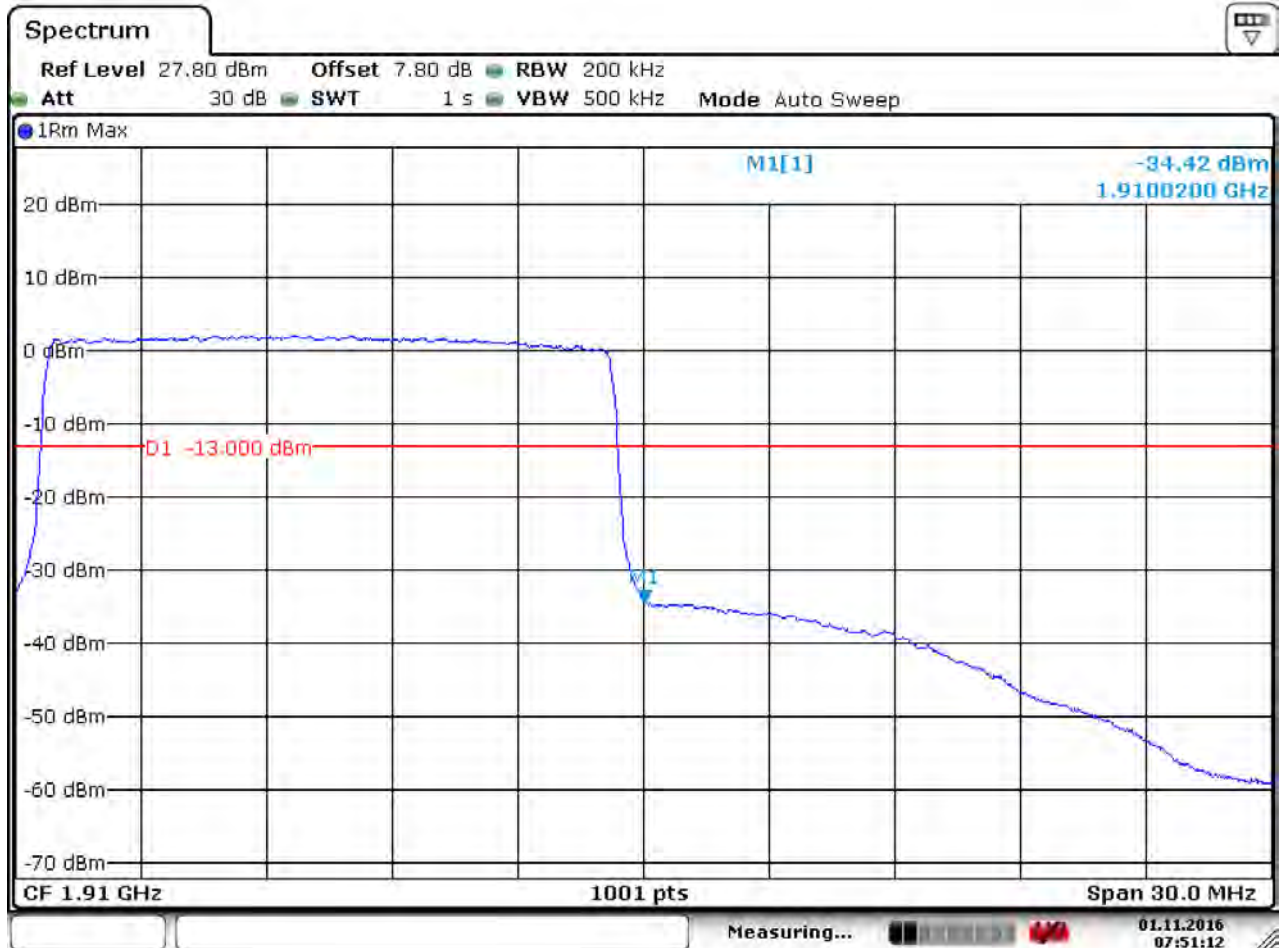
5.1.1.12.2.1 Test RB=1RB



Date: 1.NOV.2016 07:52:08



5.1.1.12.2.2 Test RB=50RB



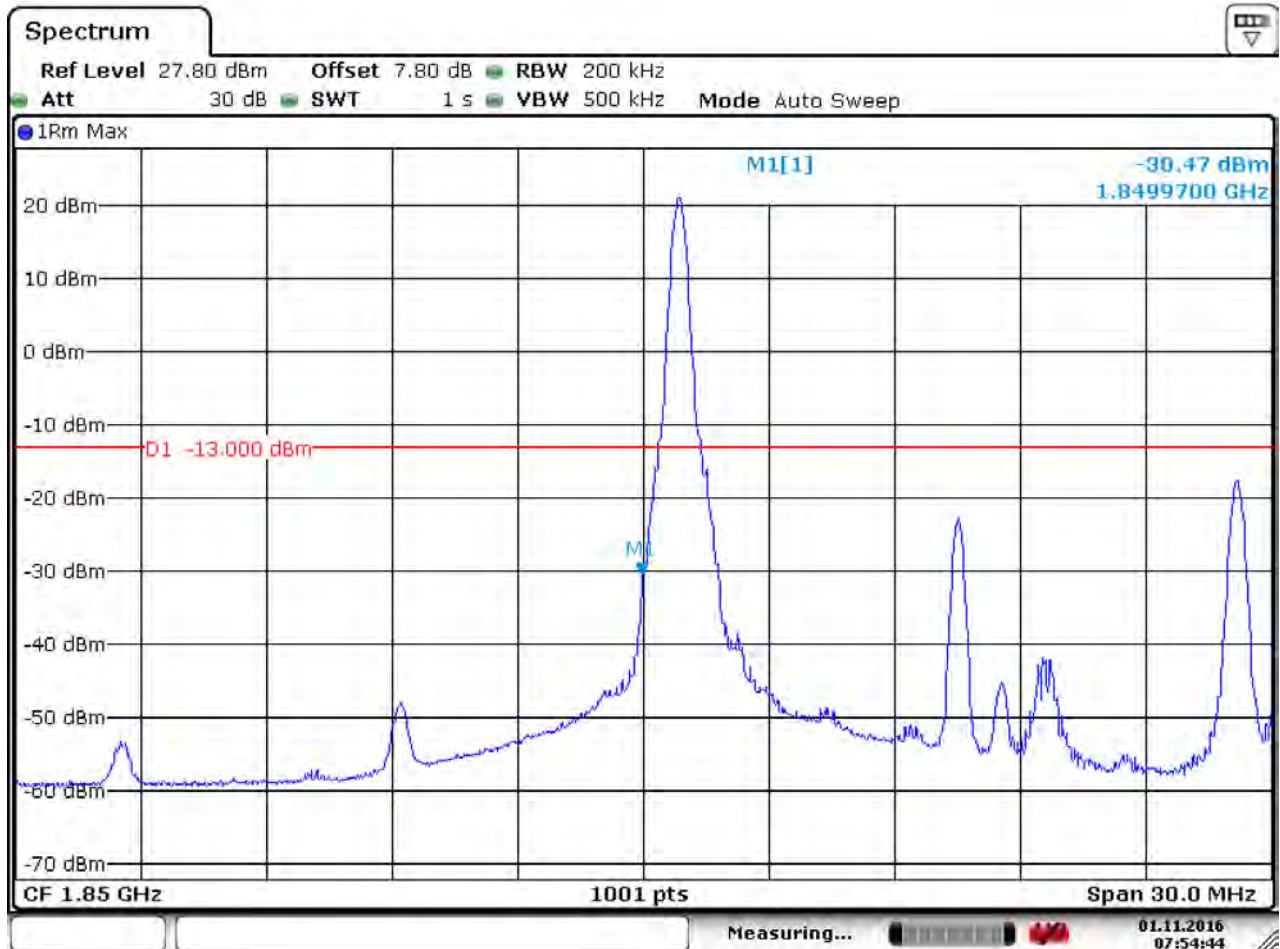
Date: 1.NOV.2016 07:51:12



5.1.1.13 Test Mode = LTE/TM1 15MHz

5.1.1.13.1 Test Channel = LCH

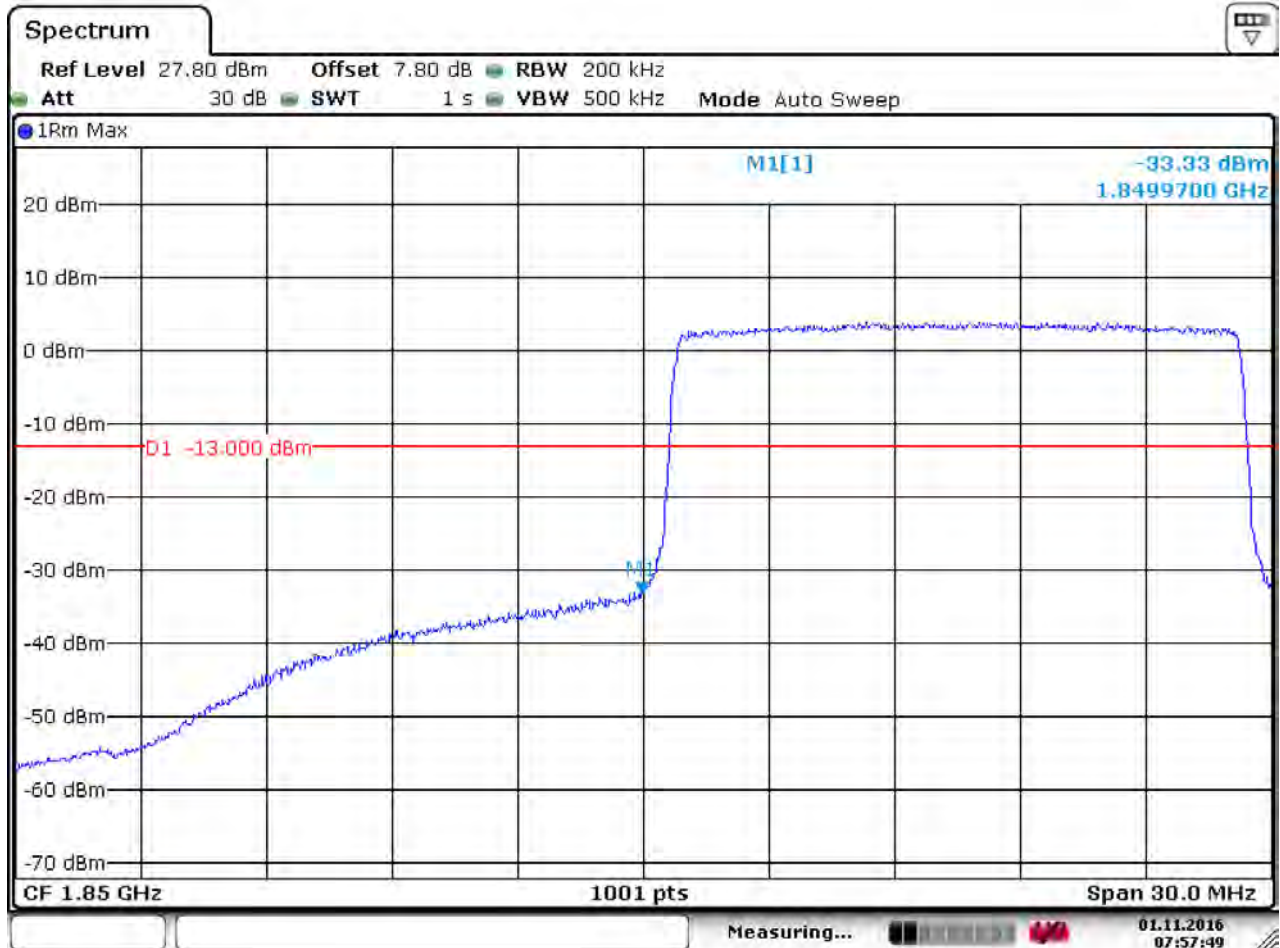
5.1.1.13.1.1 Test RB=1RB



Date: 1.NOV.2016 07:54:44



5.1.1.13.1.2 Test RB=75RB

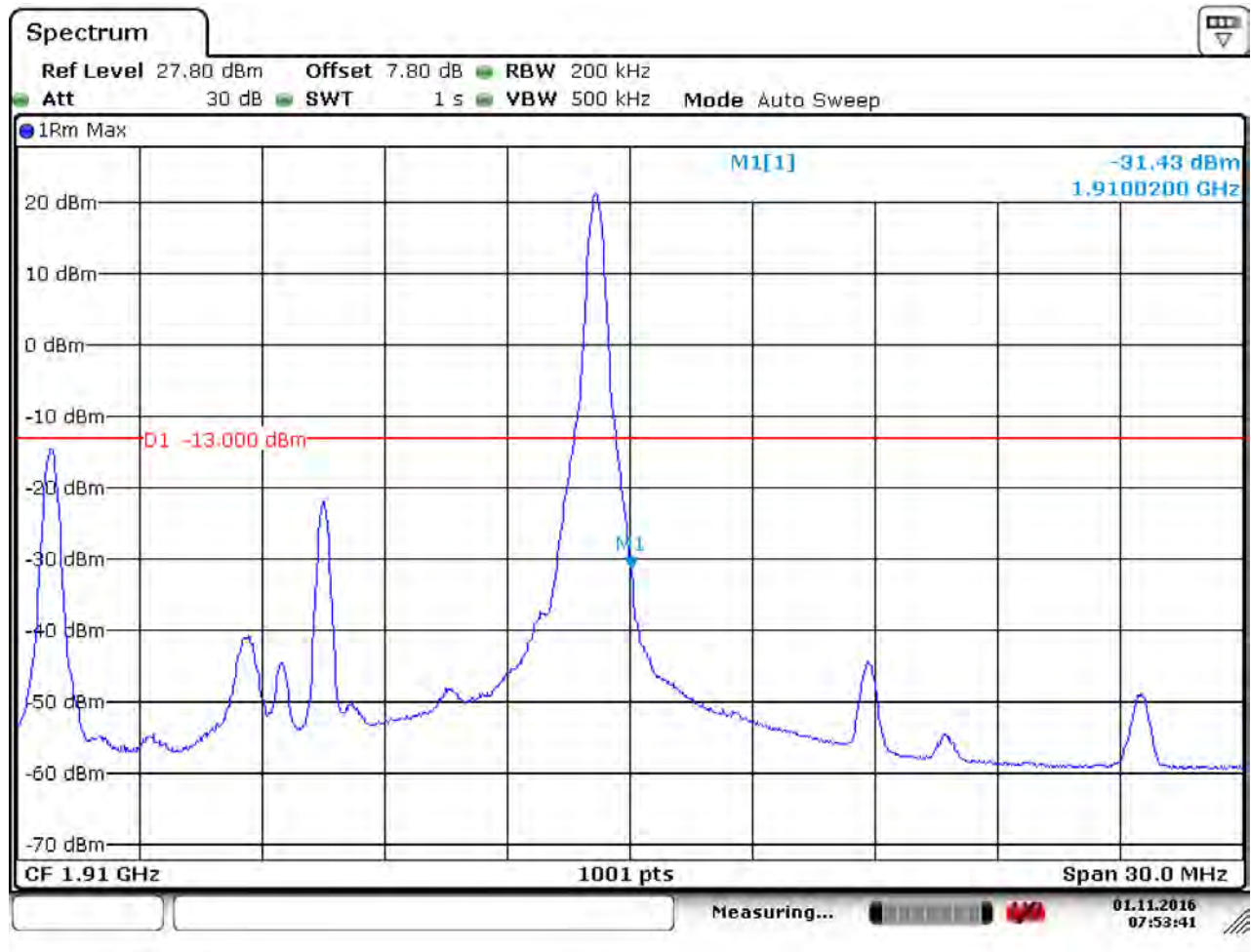


Date: 1.NOV.2016 07:57:50



5.1.1.13.2 Test Channel = HCH

5.1.1.13.2.1 Test RB=1RB



Date: 1.NOV.2016 07:53:41



5.1.1.13.2.2 Test RB=75RB



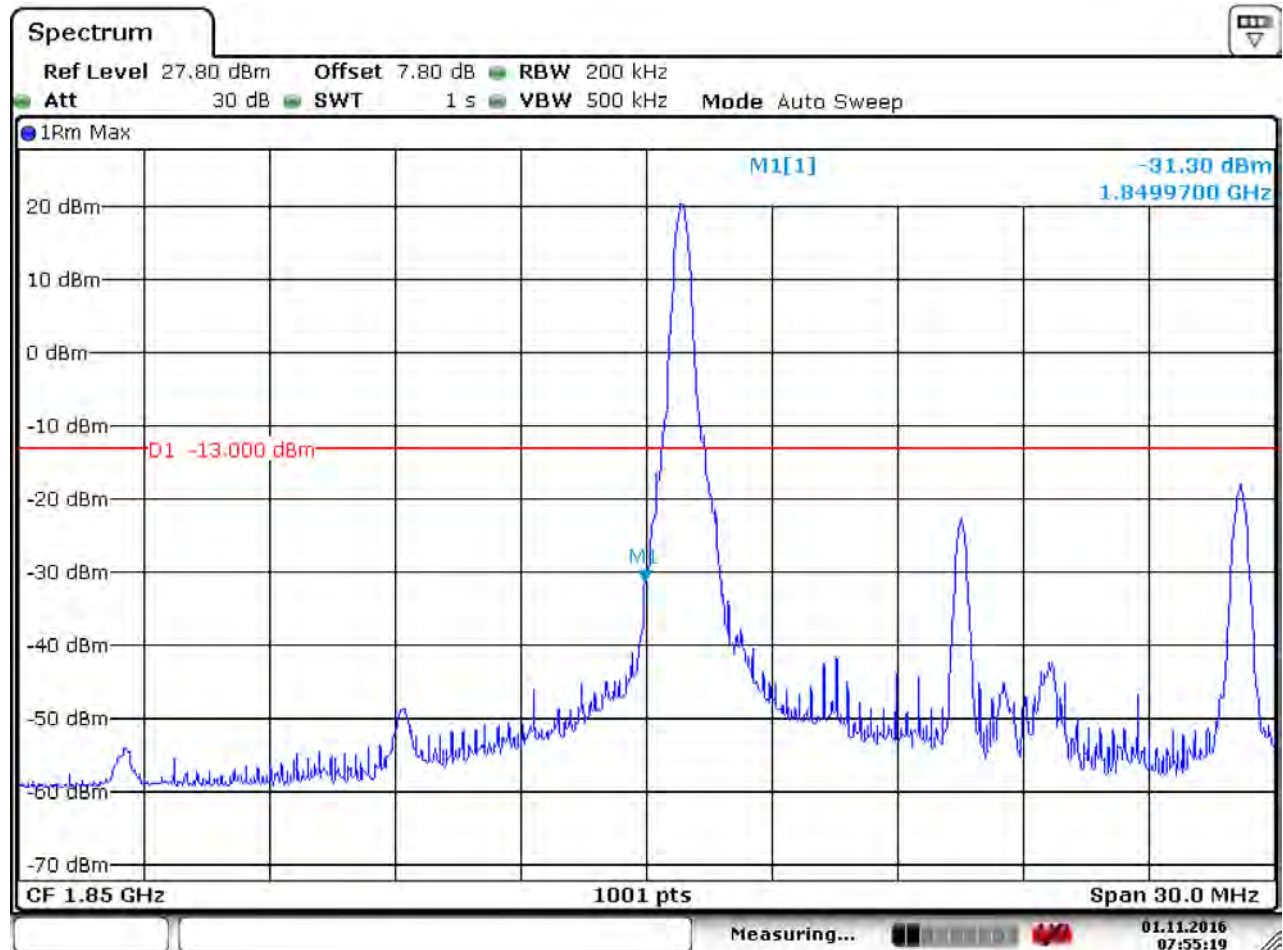
Date: 1.NOV.2016 07:49:37



5.1.1.14 Test Mode = LTE/TM2 15MHz

5.1.1.14.1 Test Channel = LCH

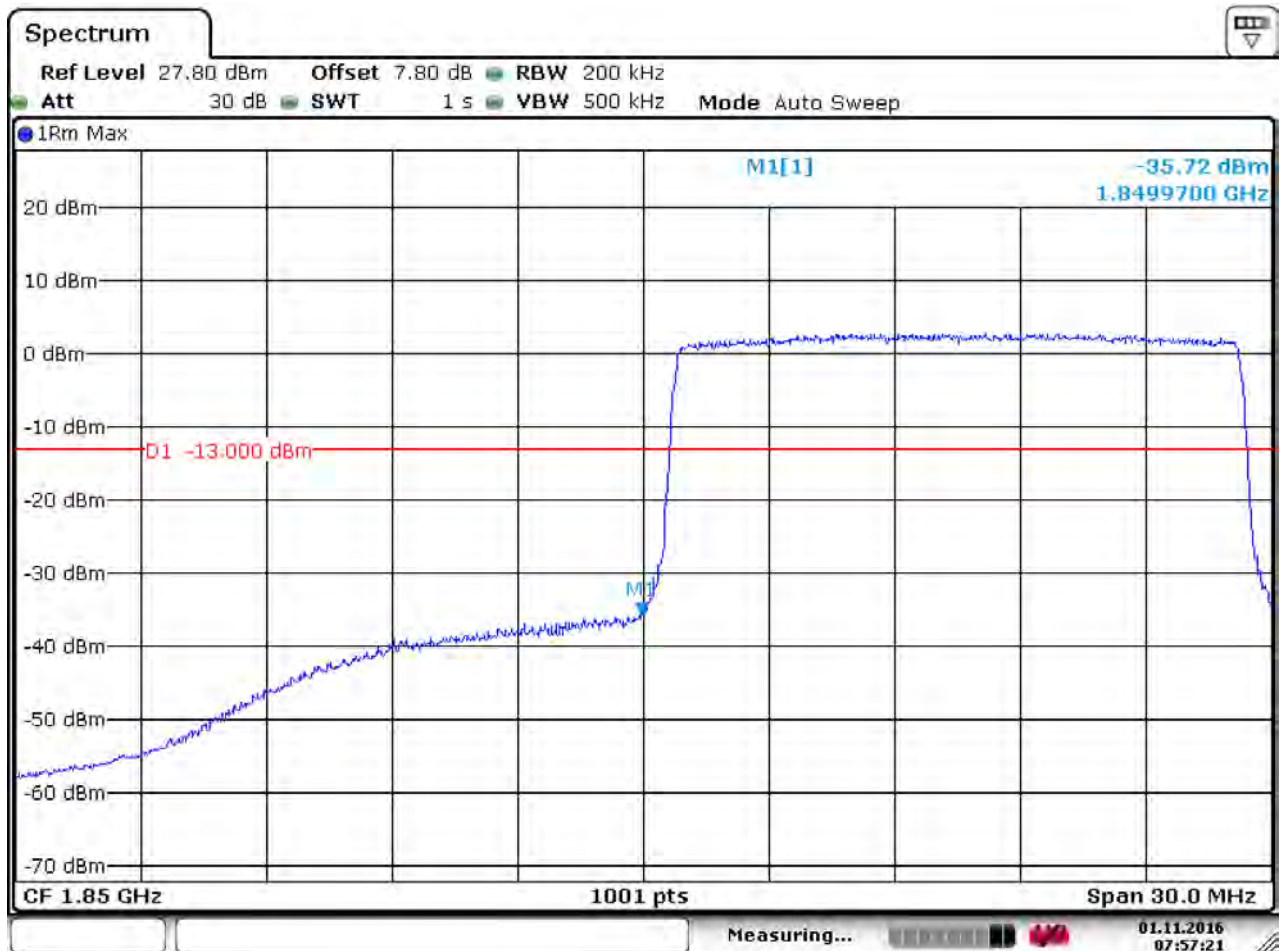
5.1.1.14.1.1 Test RB=1RB



Date: 1.NOV.2016 07:55:20



5.1.14.1.2 Test RB=75RB

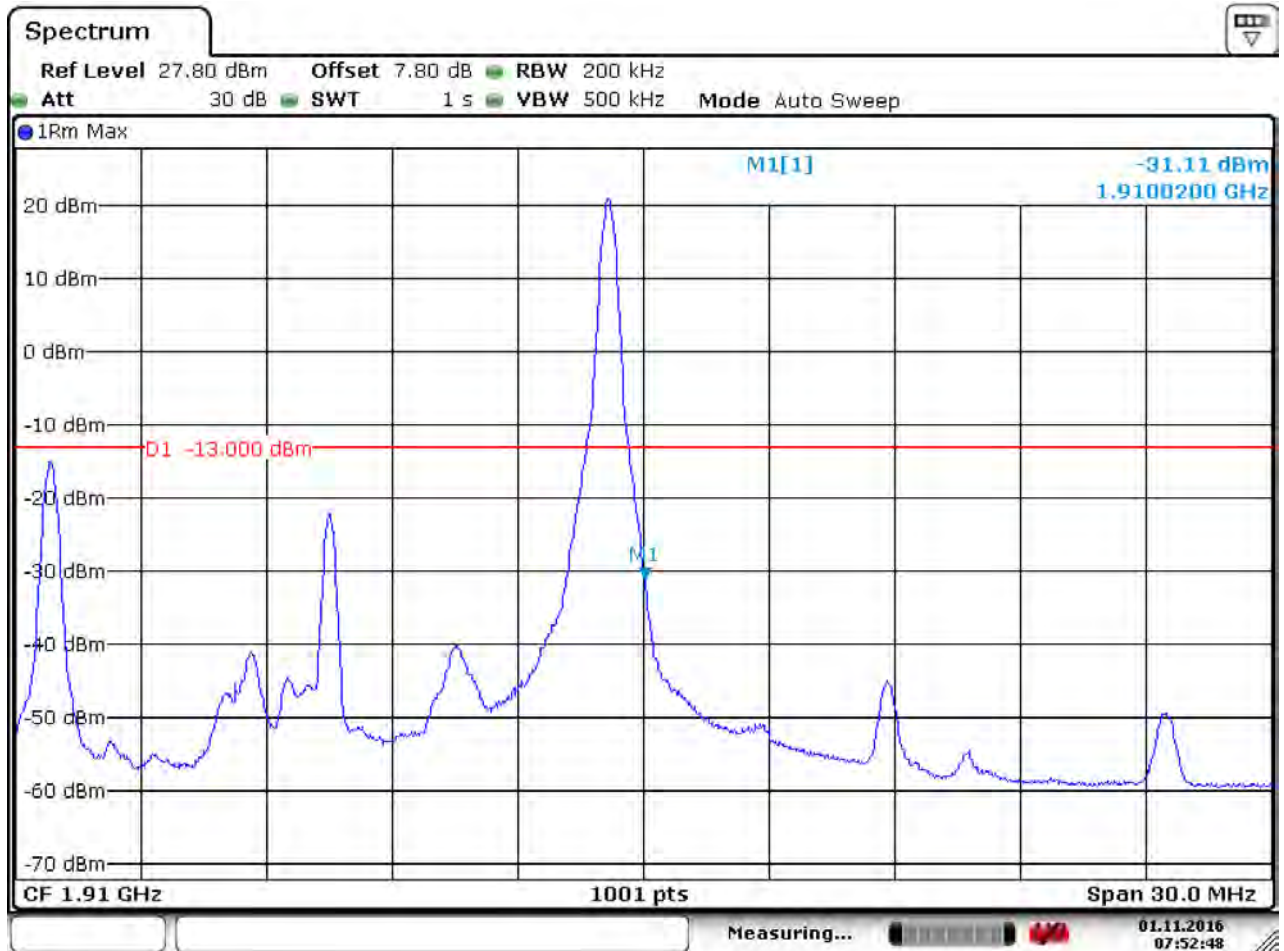


Date: 1.NOV.2016 07:57:21



5.1.1.14.2 Test Channel = HCH

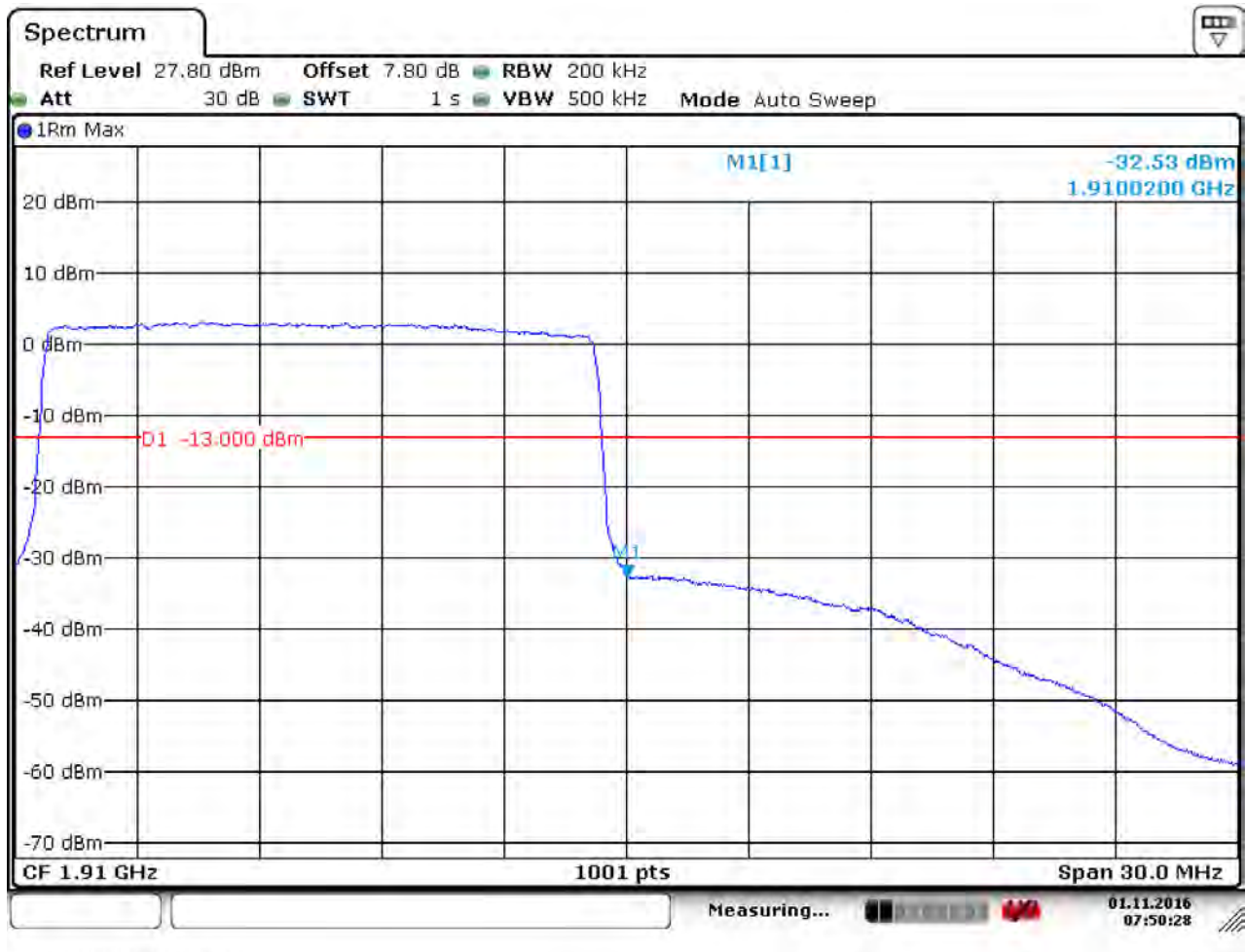
5.1.1.14.2.1 Test RB=1RB



Date: 1.NOV.2016 07:52:49



5.1.1.14.2.2 Test RB=75RB



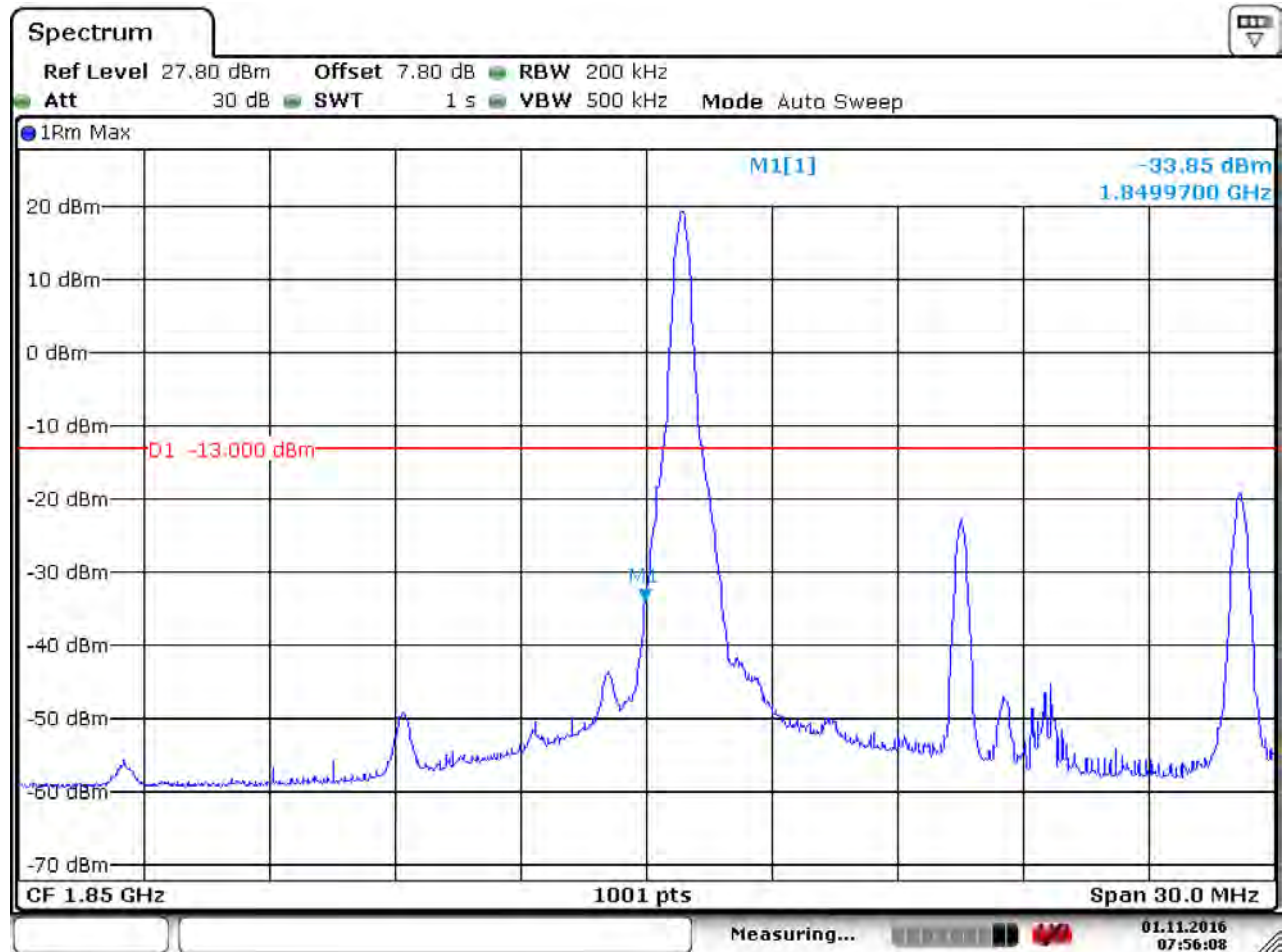
Date: 1.NOV.2016 07:50:28



5.1.1.15 Test Mode = LTE/TM3 15MHz

5.1.1.15.1 Test Channel = LCH

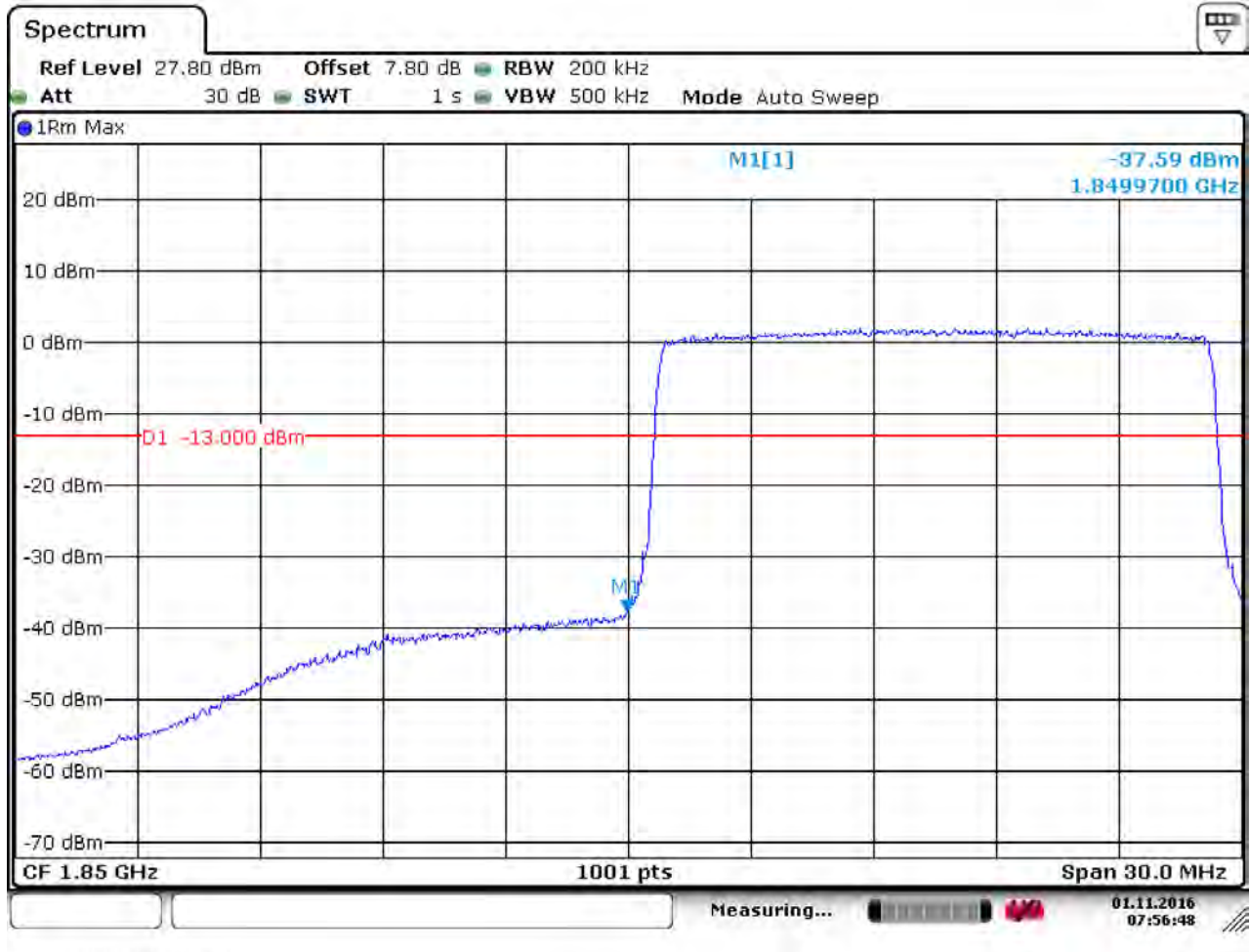
5.1.1.15.1.1 Test RB=1RB



Date: 1.NOV.2016 07:56:08



5.1.1.15.1.2 Test RB=75RB

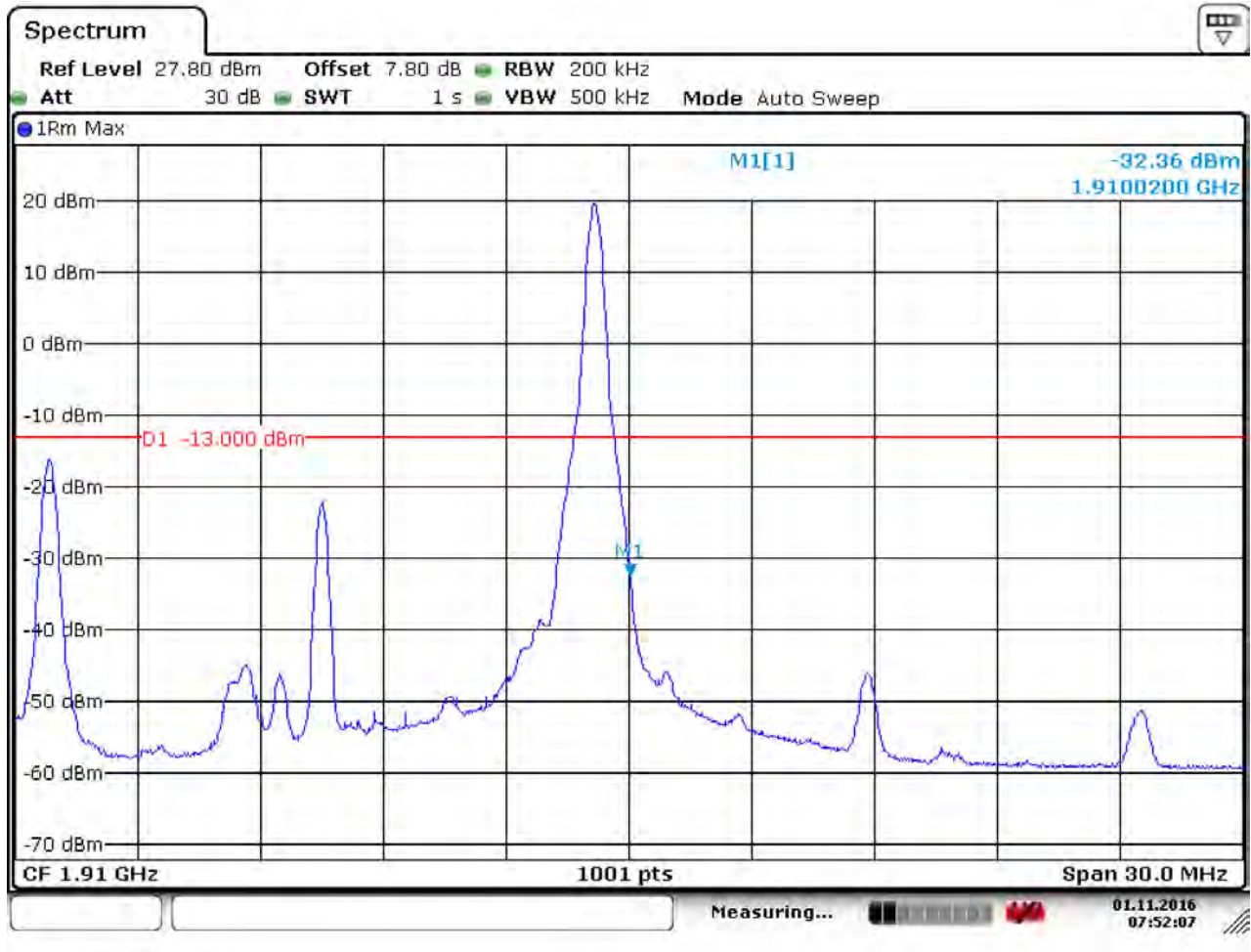


Date: 1.NOV.2016 07:56:48



5.1.1.15.2 Test Channel = HCH

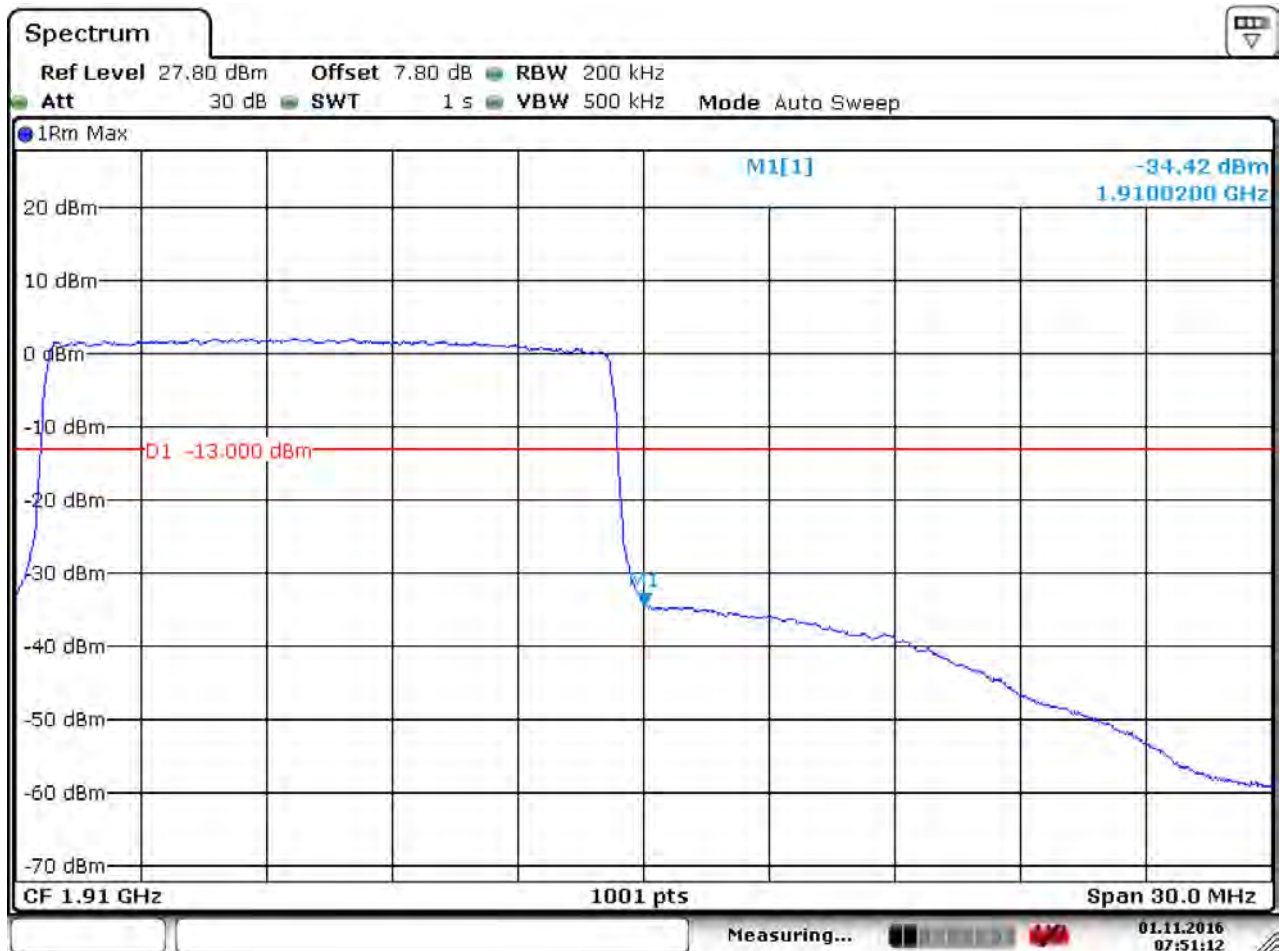
5.1.1.15.2.1 Test RB=1RB



Date: 1.NOV.2016 07:52:08



5.1.1.15.2.2 Test RB=75RB



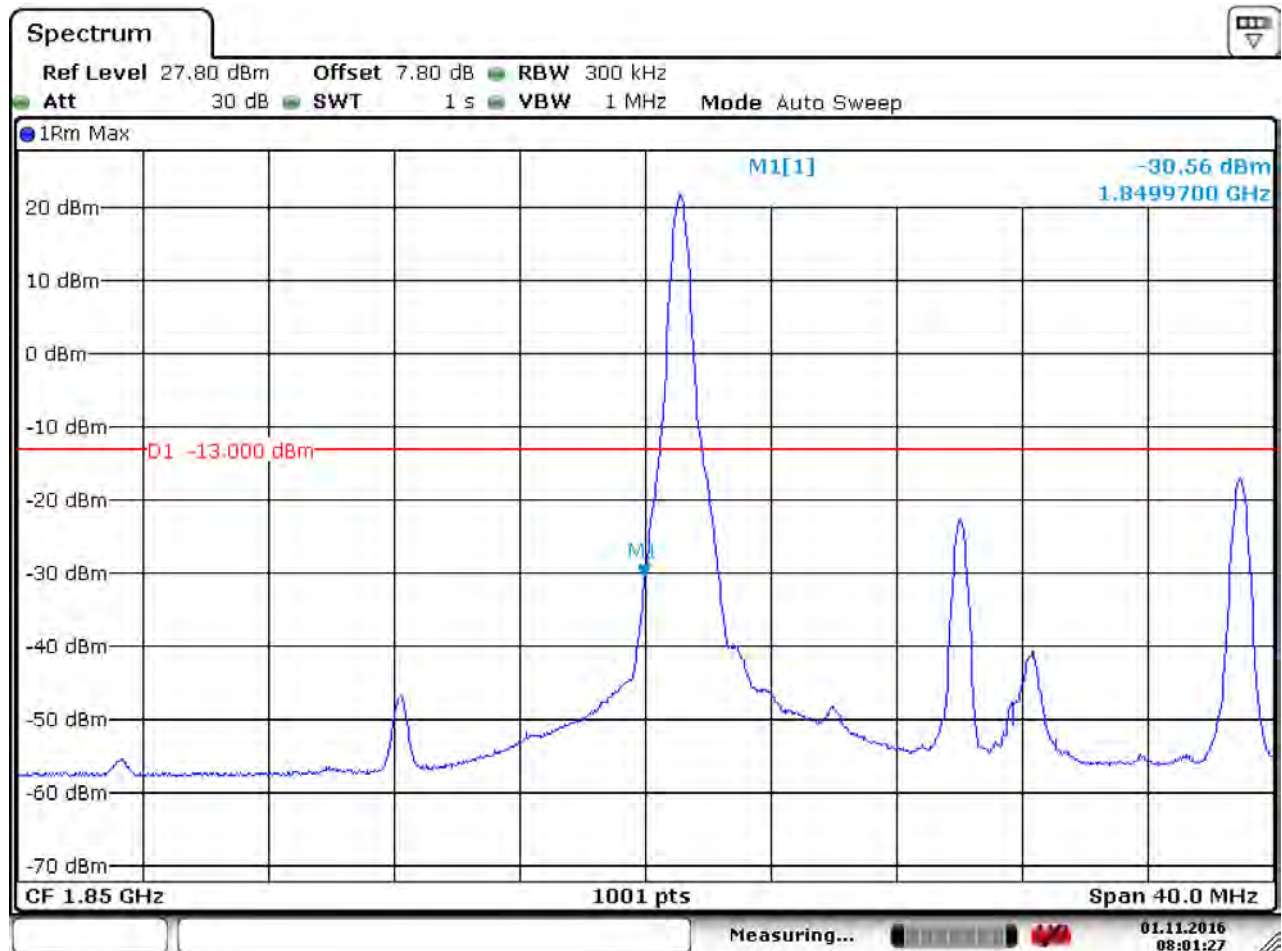
Date: 1.NOV.2016 07:51:12



5.1.1.16 Test Mode = LTE/TM1 20MHz

5.1.1.16.1 Test Channel = LCH

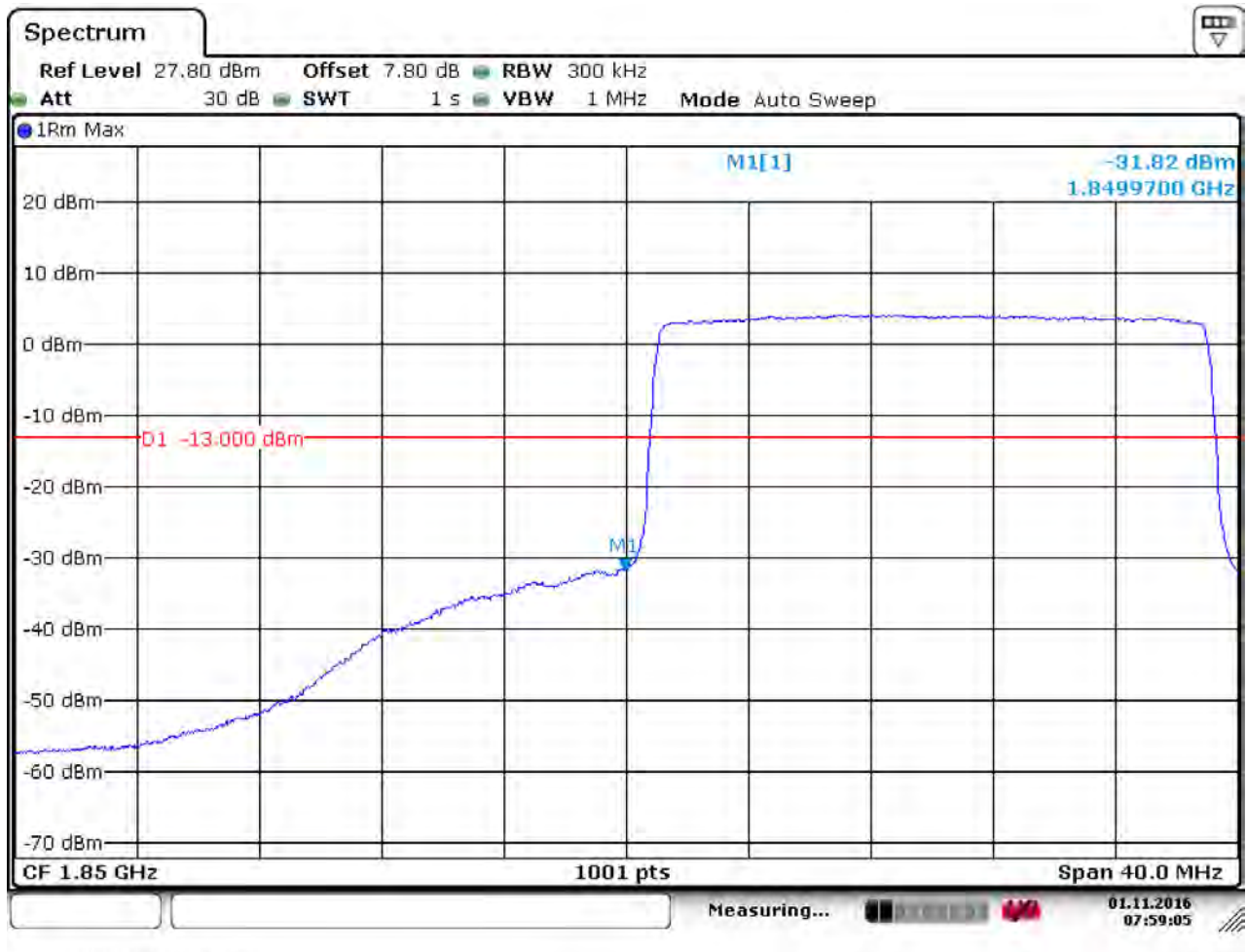
5.1.1.16.1.1 Test RB=1RB



Date: 1.NOV.2016 08:01:27



5.1.1.16.1.2 Test RB=100RB

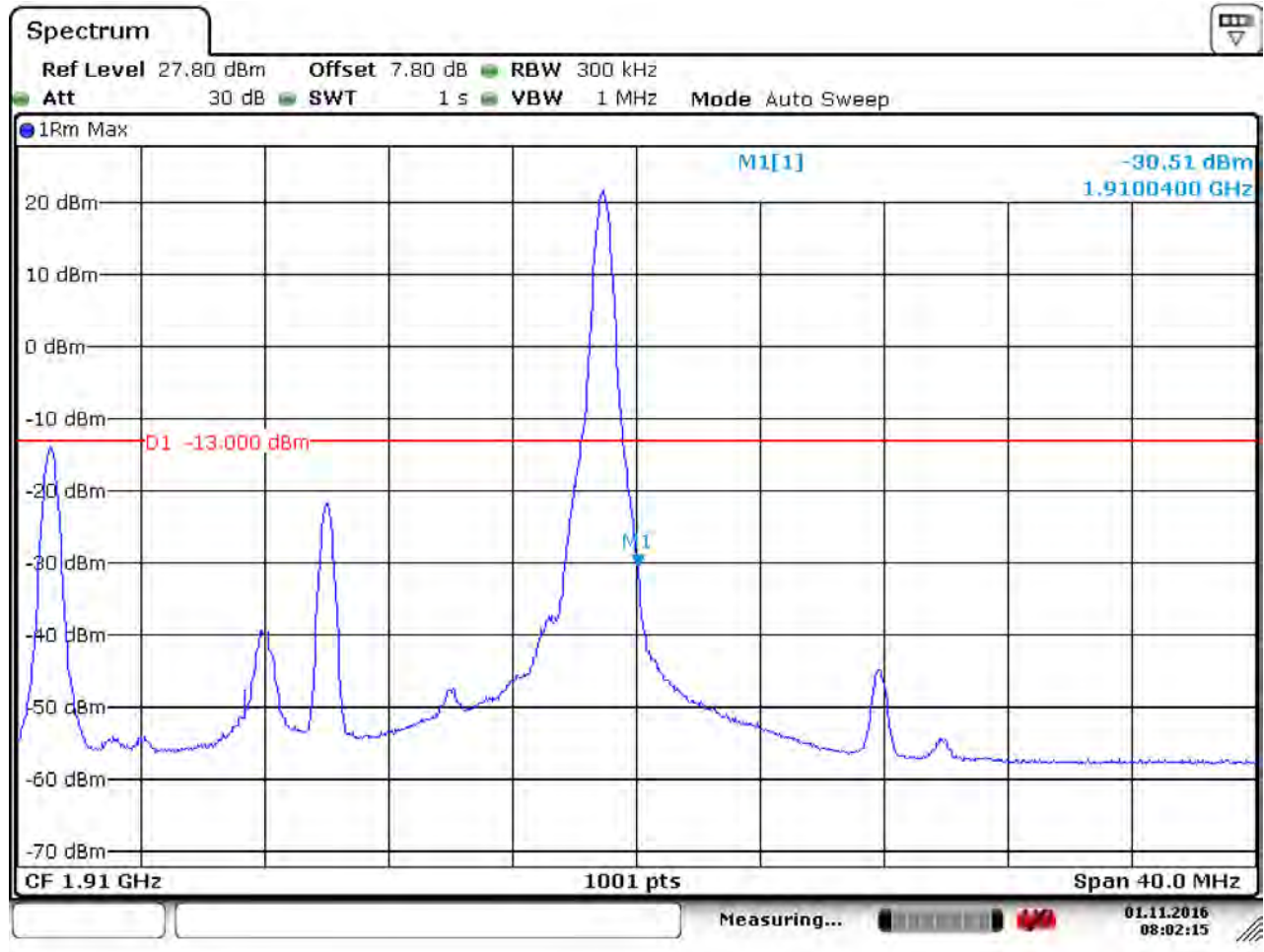


Date: 1.NOV.2016 07:59:05



5.1.1.16.2 Test Channel = HCH

5.1.1.16.2.1 Test RB=1RB



Date: 1.NOV.2016 08:02:15



5.1.1.16.2.2 Test RB=100RB



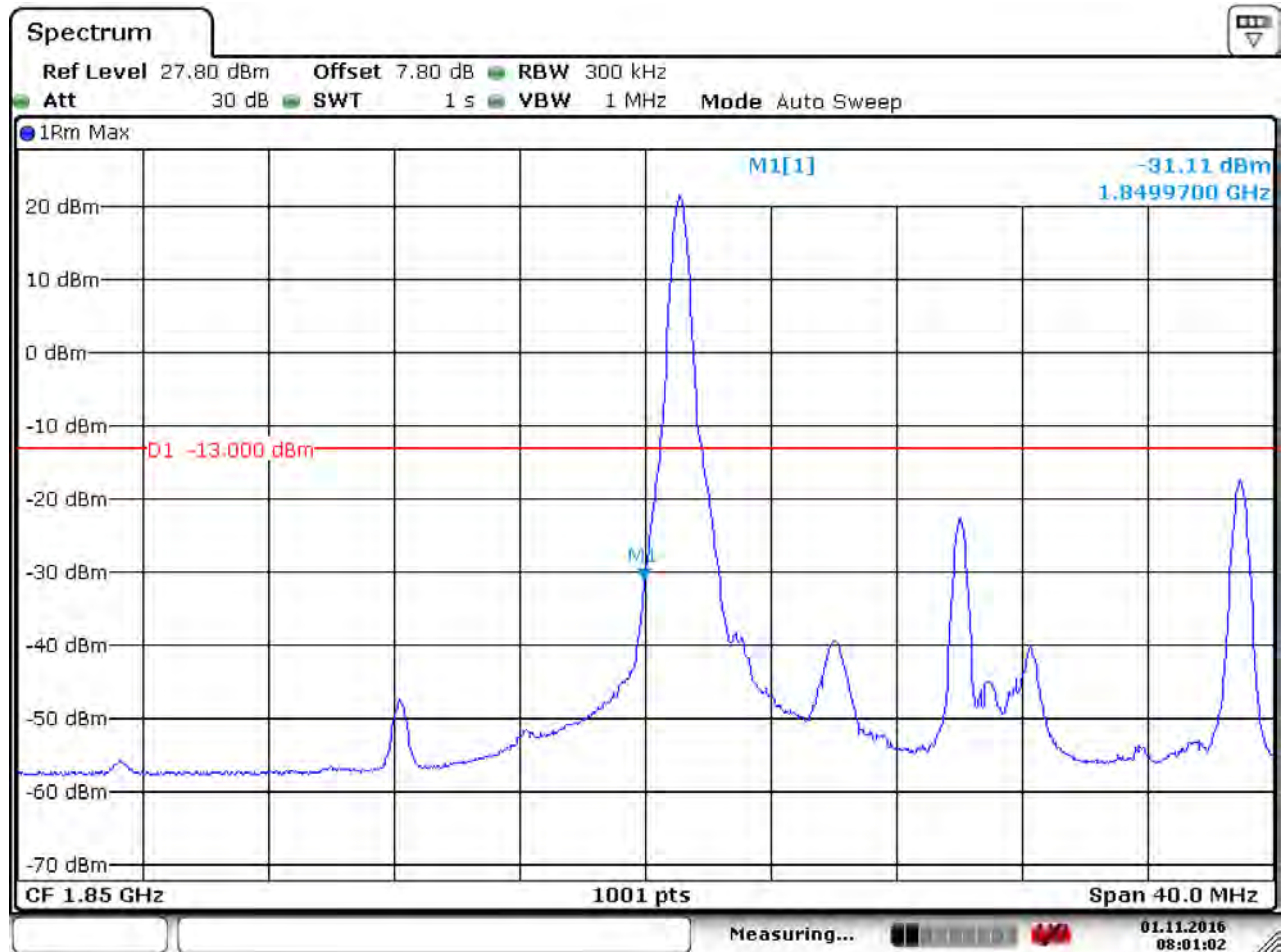
Date: 1.NOV.2016 08:04:53



5.1.1.17 Test Mode = LTE/TM2 20MHz

5.1.1.17.1 Test Channel = LCH

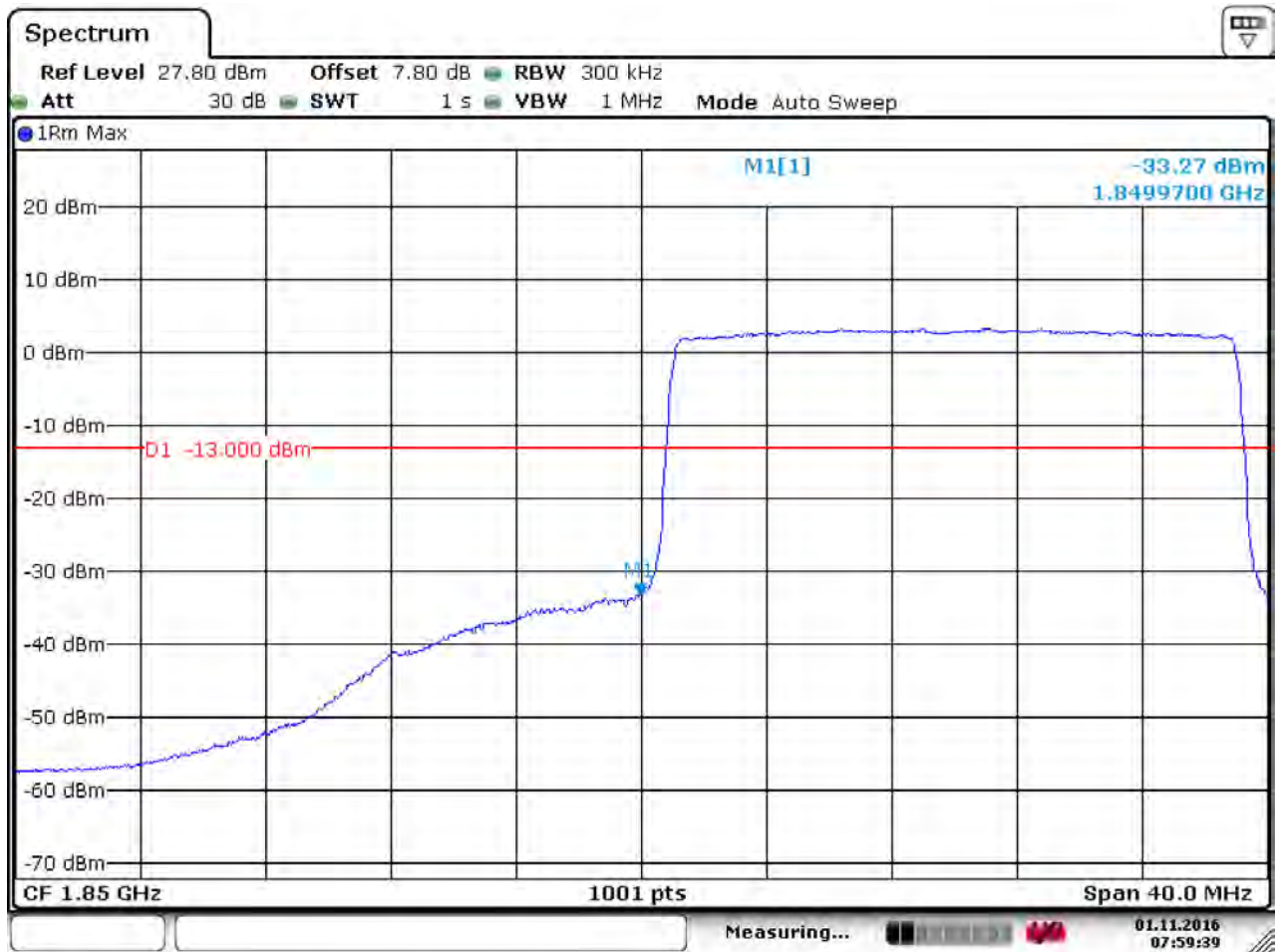
5.1.1.17.1.1 Test RB=1RB



Date: 1.NOV.2016 08:01:03



5.1.1.17.1.2 Test RB=100RB

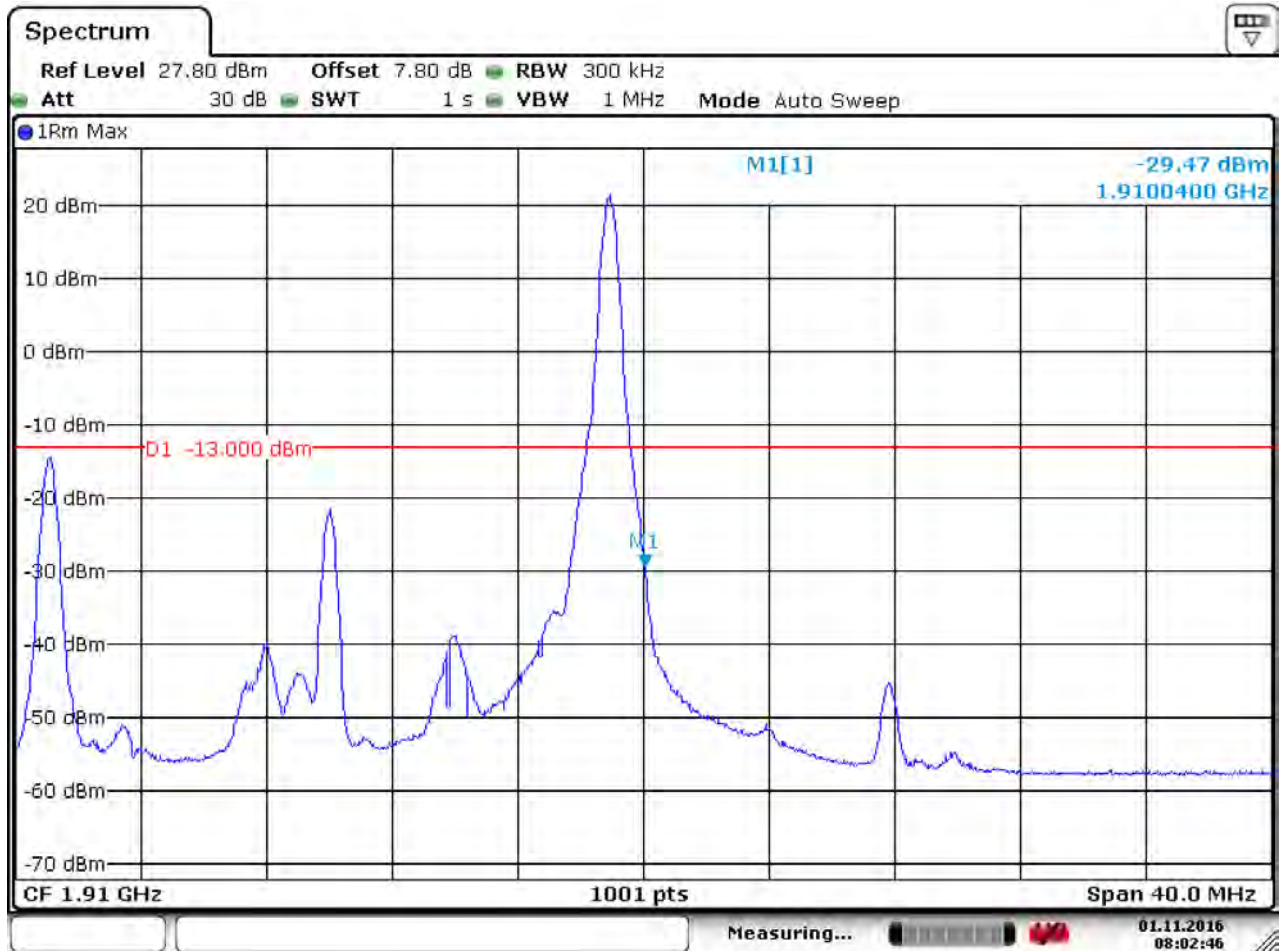


Date: 1.NOV.2016 07:59:39



5.1.1.17.2 Test Channel = HCH

5.1.1.17.2.1 Test RB=1RB



Date: 1.NOV.2016 08:02:47



5.1.1.17.2.2 Test RB=100RB



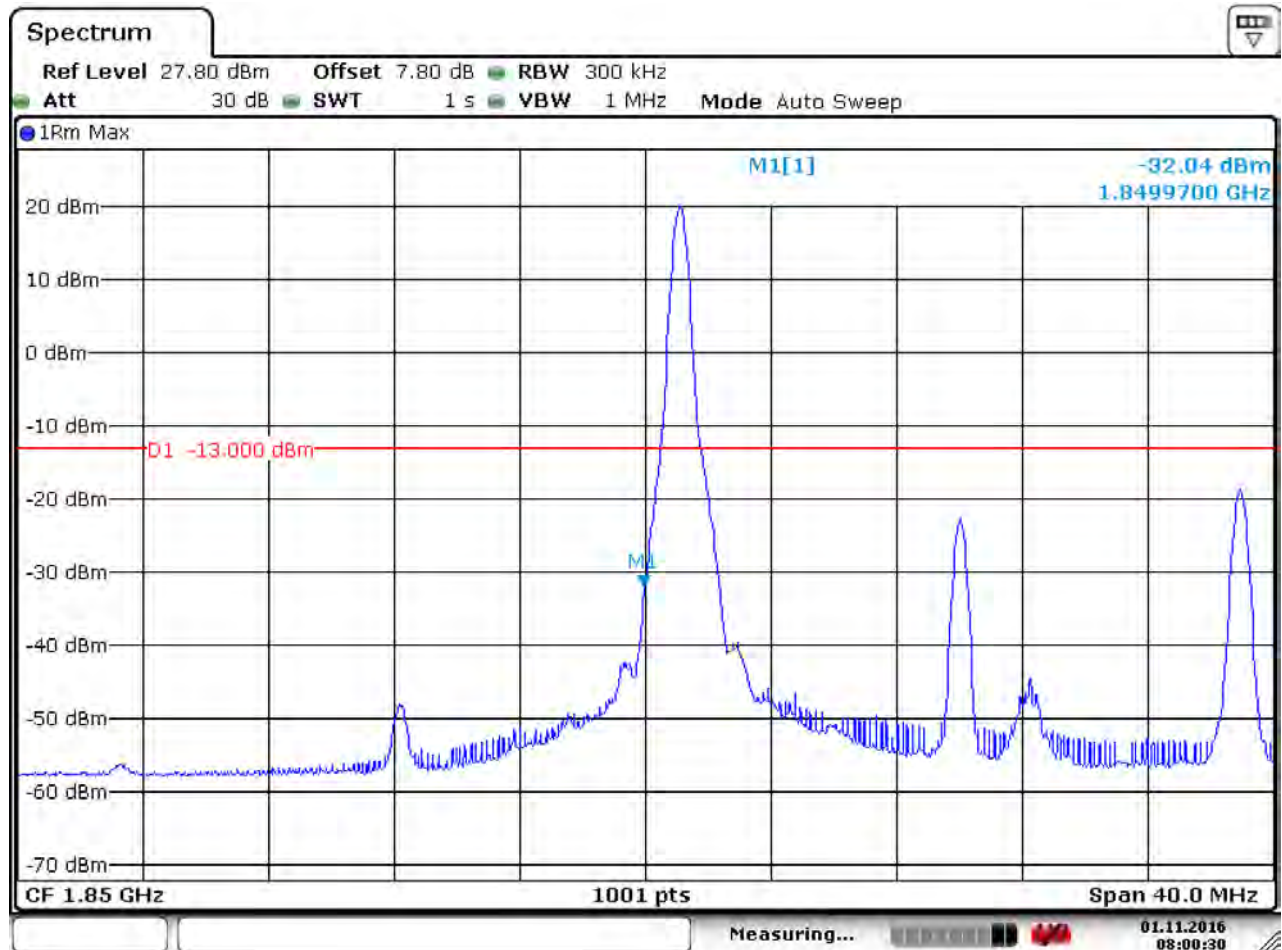
Date: 1.NOV.2016 08:04:24



5.1.1.18 Test Mode = LTE/TM3 20MHz

5.1.1.18.1 Test Channel = LCH

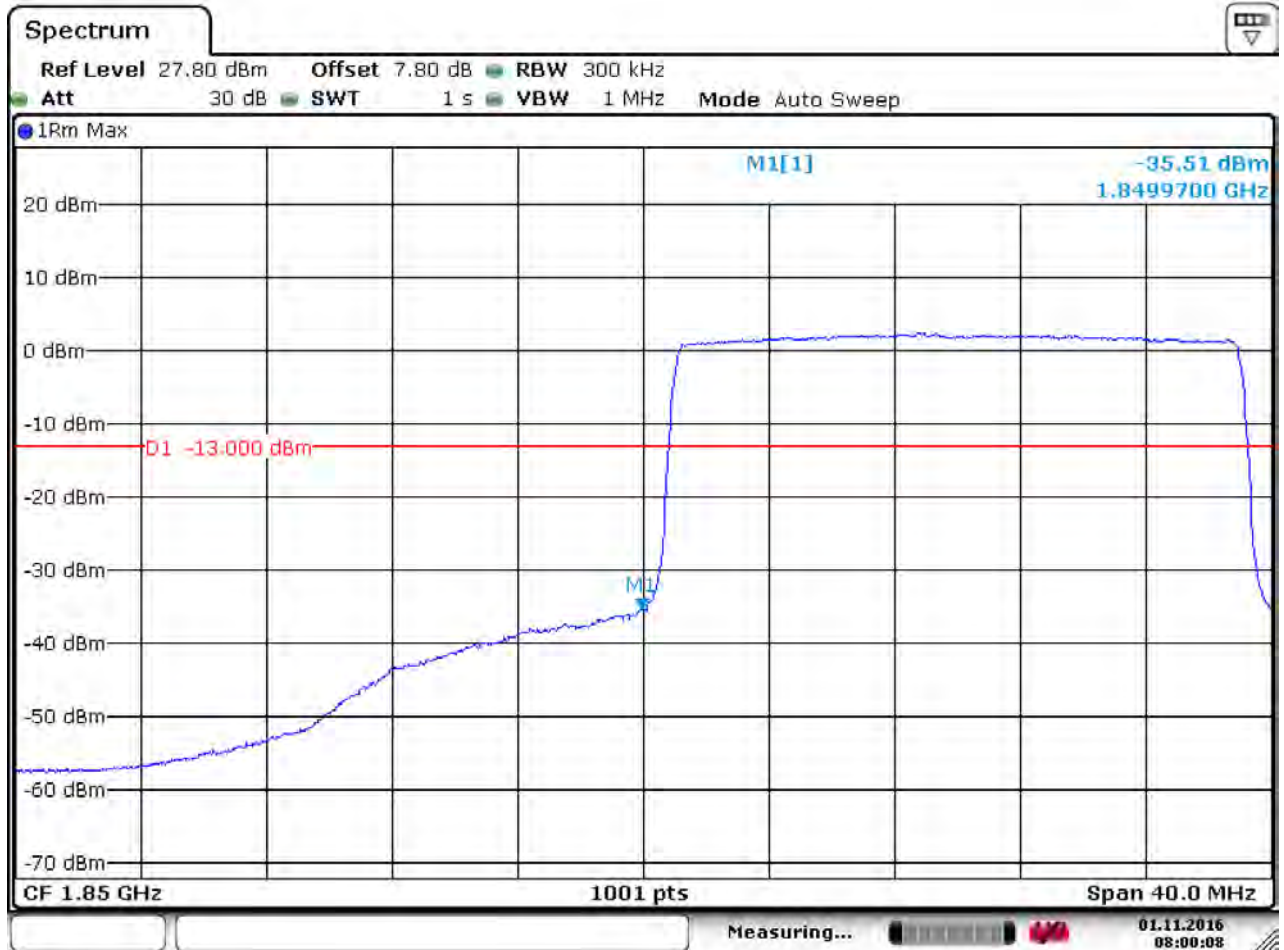
5.1.1.18.1.1 Test RB=1RB



Date: 1.NOV.2016 08:00:31



5.1.1.18.1.2 Test RB=100RB

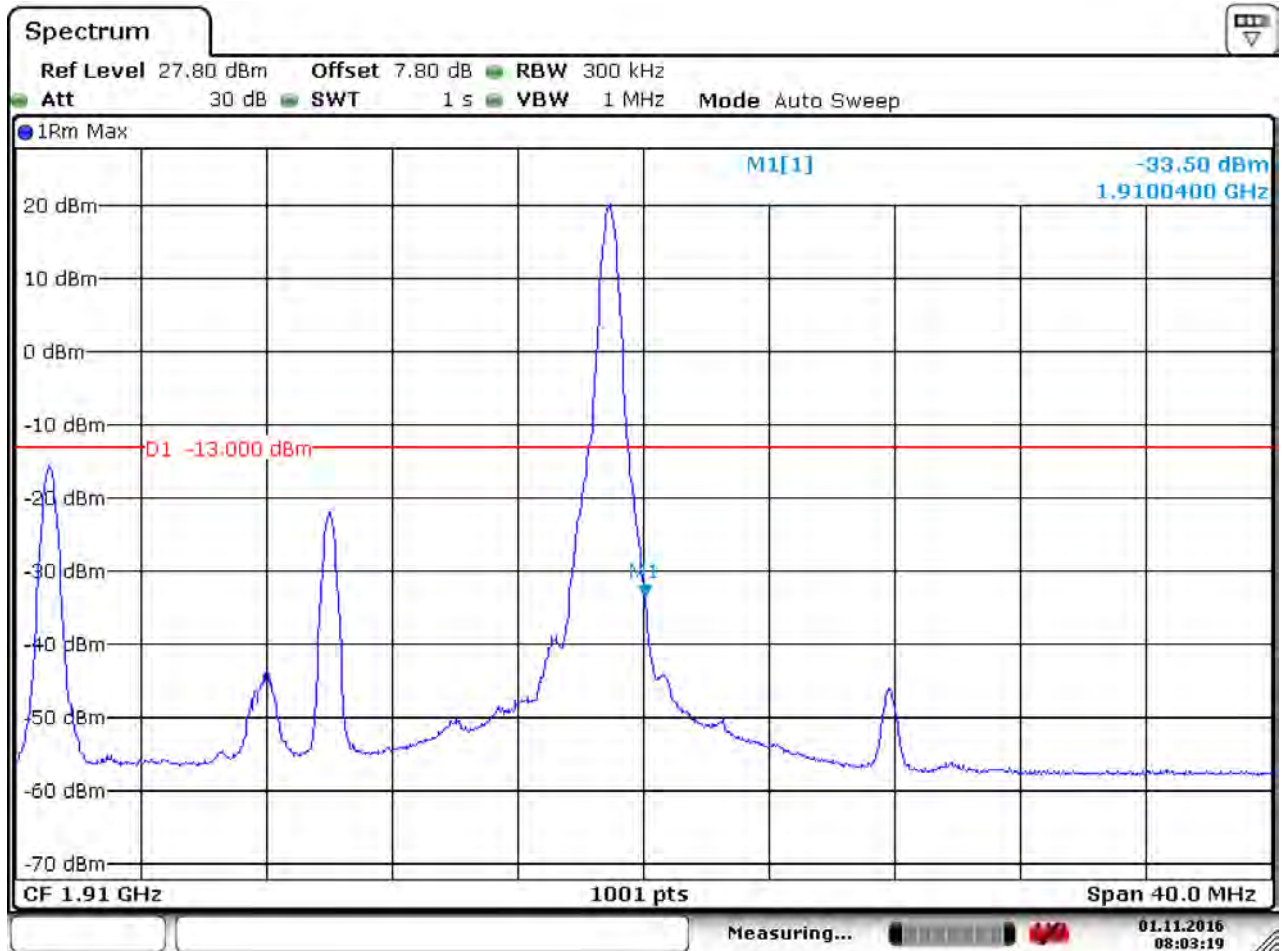


Date: 1.NOV.2016 08:00:08



5.1.1.18.2 Test Channel = HCH

5.1.1.18.2.1 Test RB=1RB



Date: 1.NOV.2016 08:03:19



5.1.1.18.2.2 Test RB=100RB



Date: 1.NOV.2016 08:03:54



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.

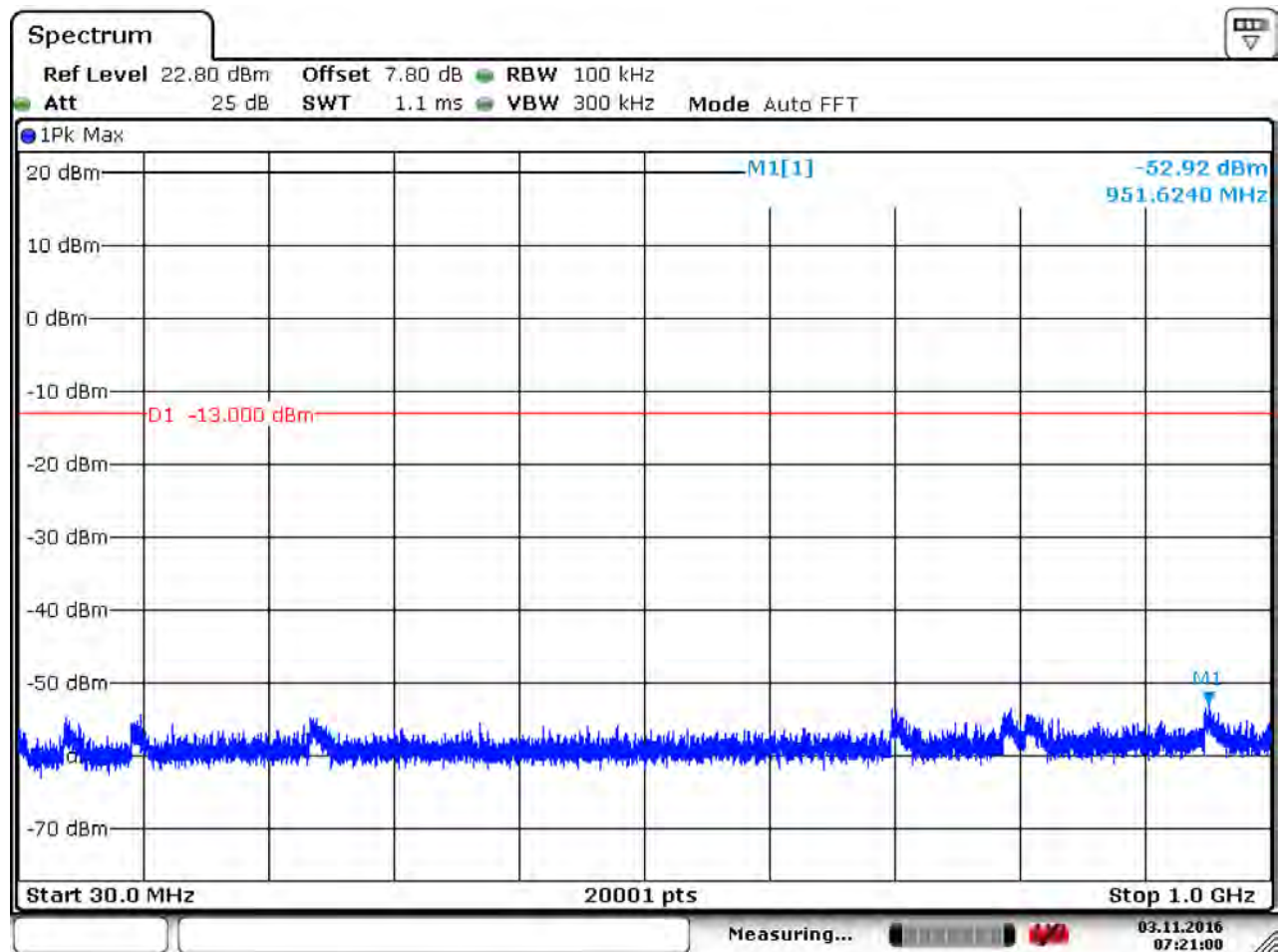
Part I - Test Plots

6.1 For LTE

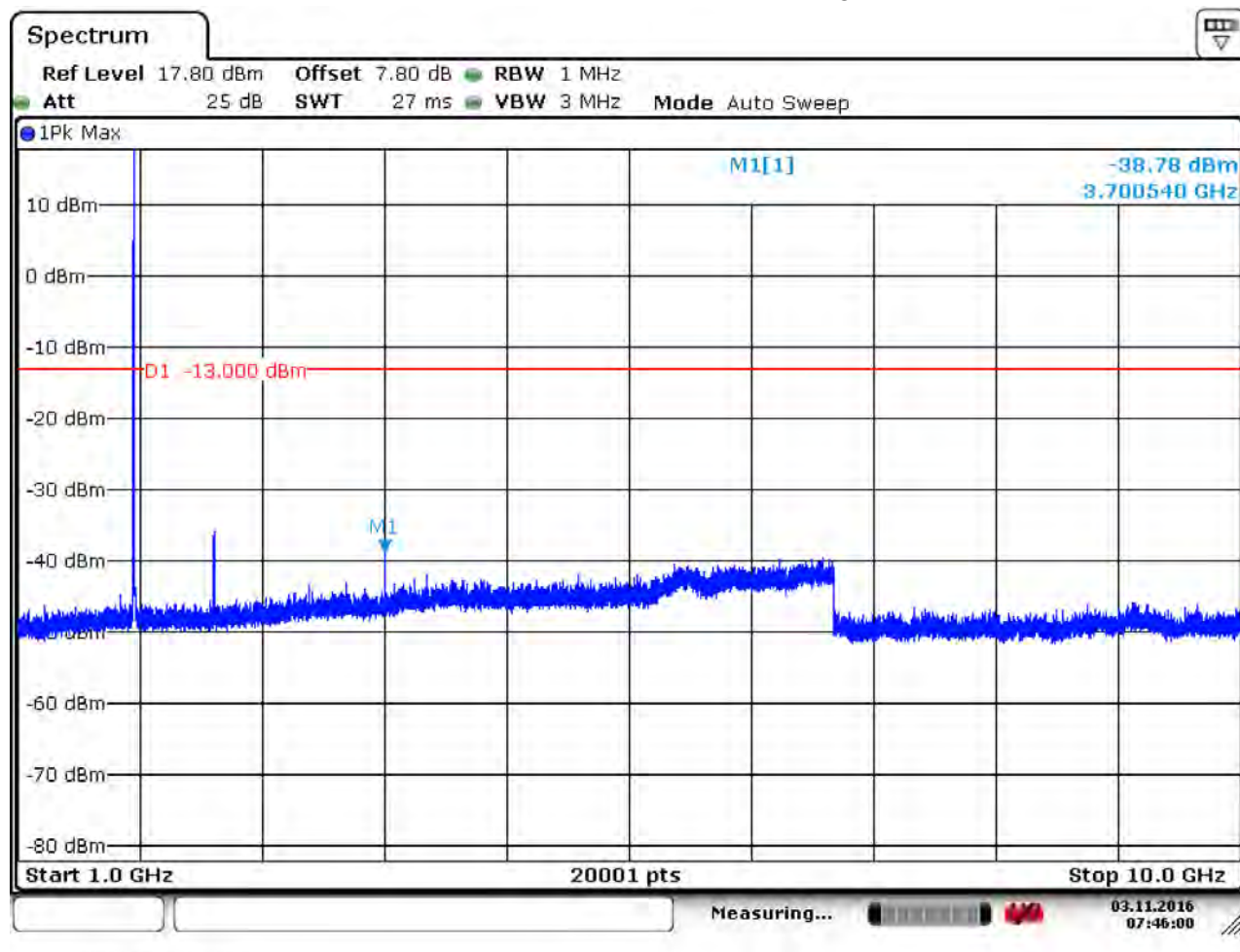
6.1.1 Test Band = LTE band2

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

6.1.1.1.1 Test Channel = LCH



Date: 3.NOV.2016 07:21:01



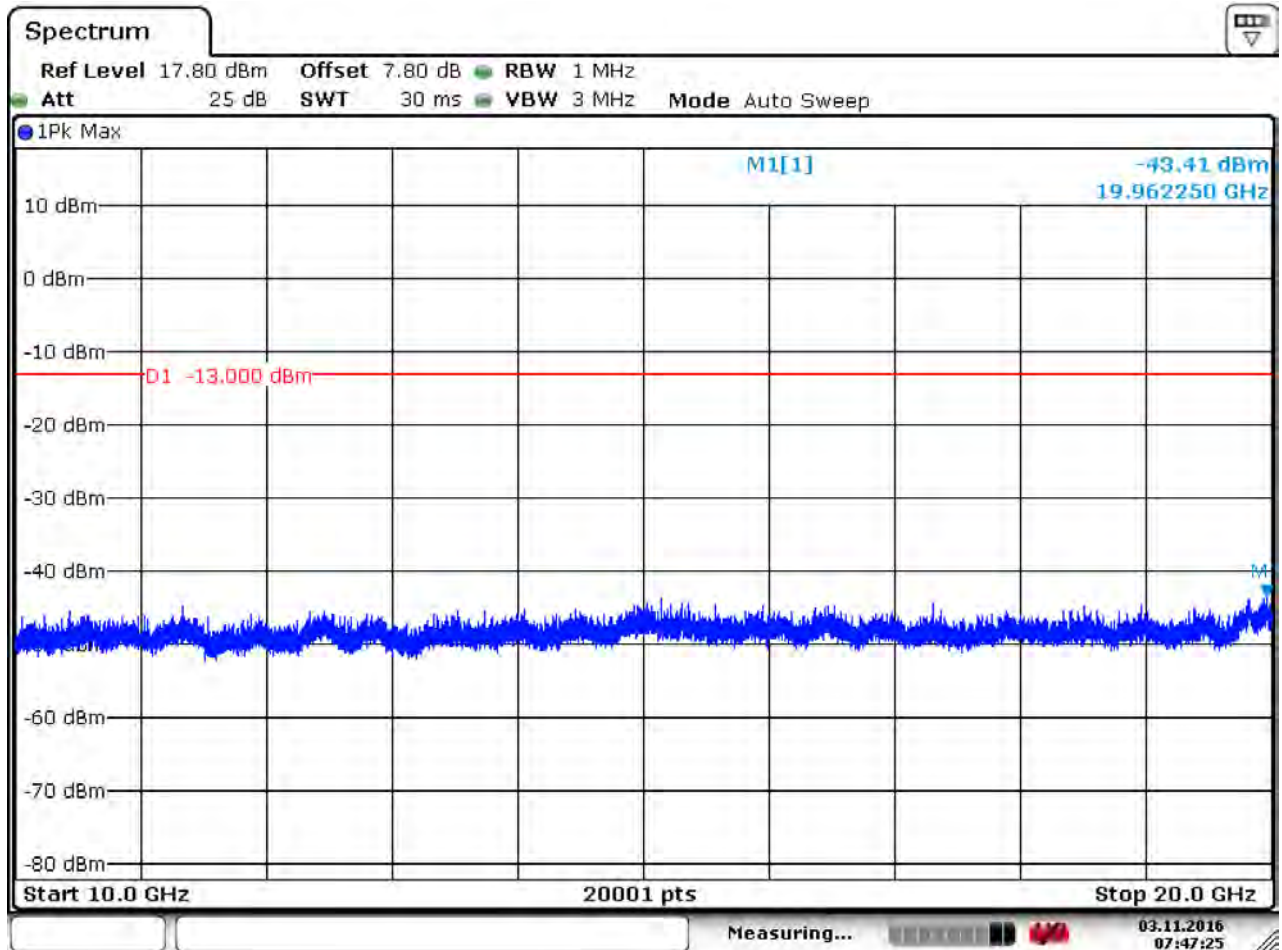
Date: 3.NOV.2016 07:46:00



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Shenzhen Branch

Report No.: SZEM161000852202

Page: 180 of 238

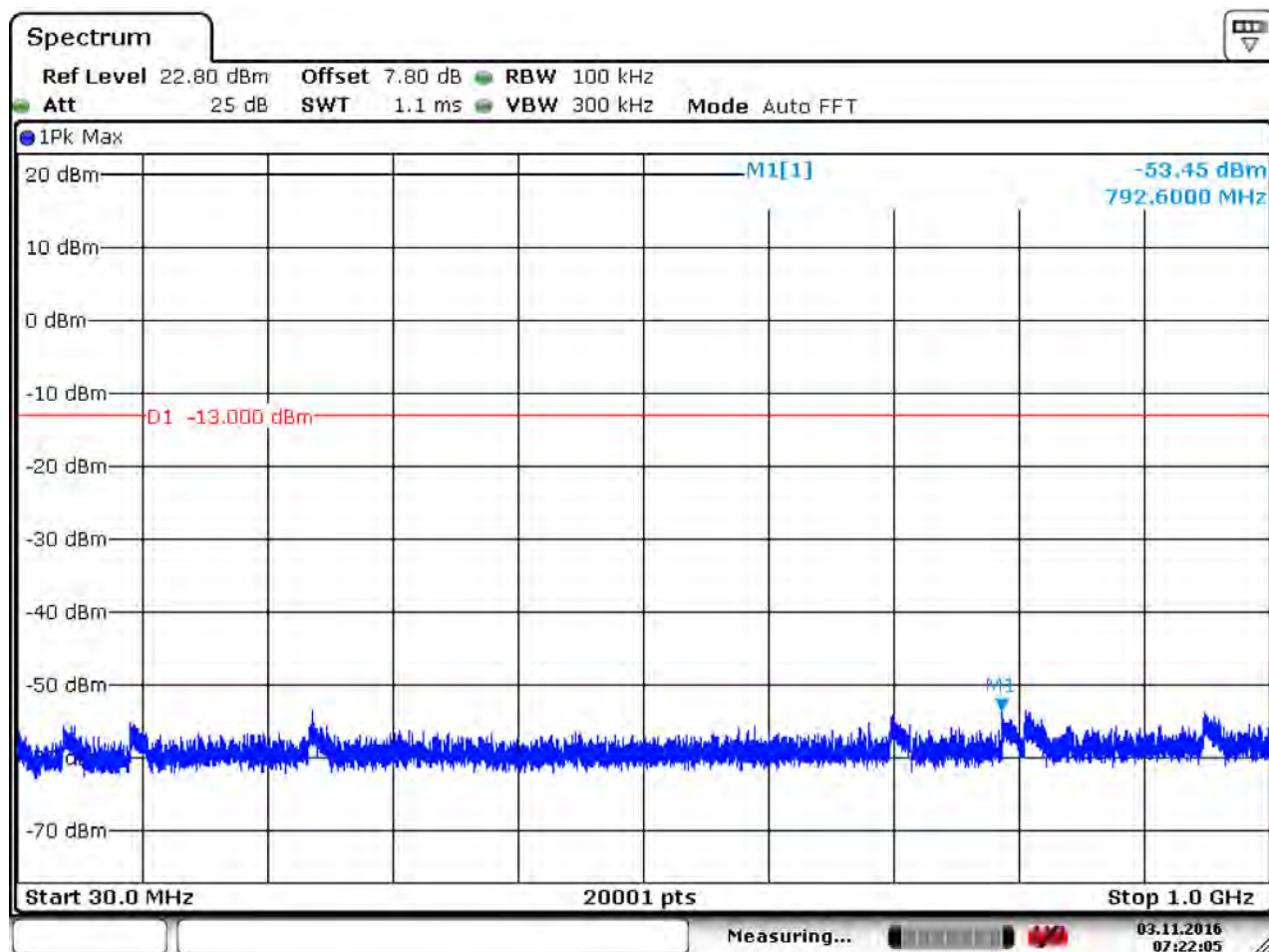


Date: 3.NOV.2016 07:47:25

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6.1.1.1.2 Test Channel = MCH



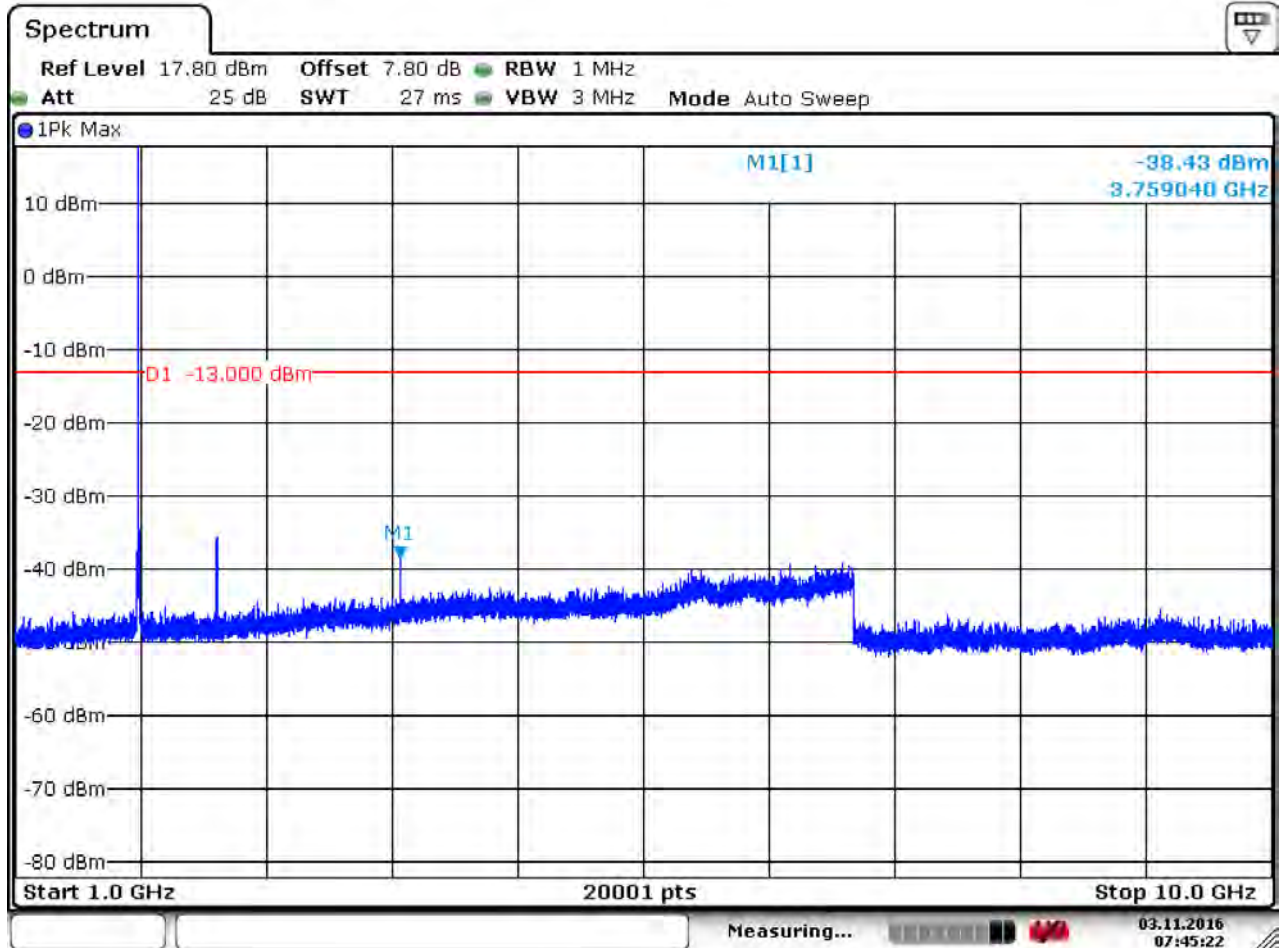
Date: 3 NOV. 2016 07:22:05



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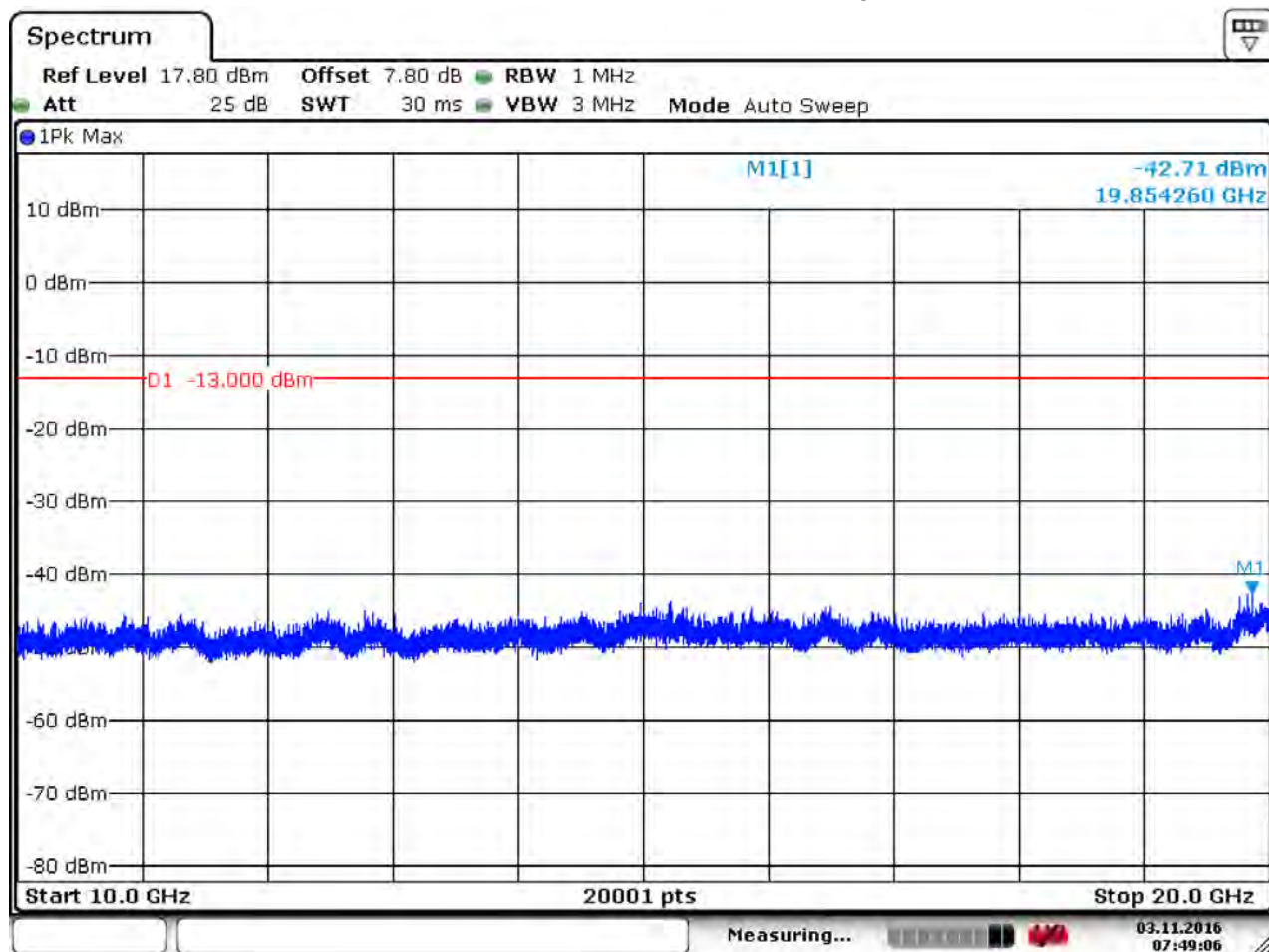
Report No.: SZEM161000852202

Page: 182 of 238



Date: 3.NOV.2016 07:45:22

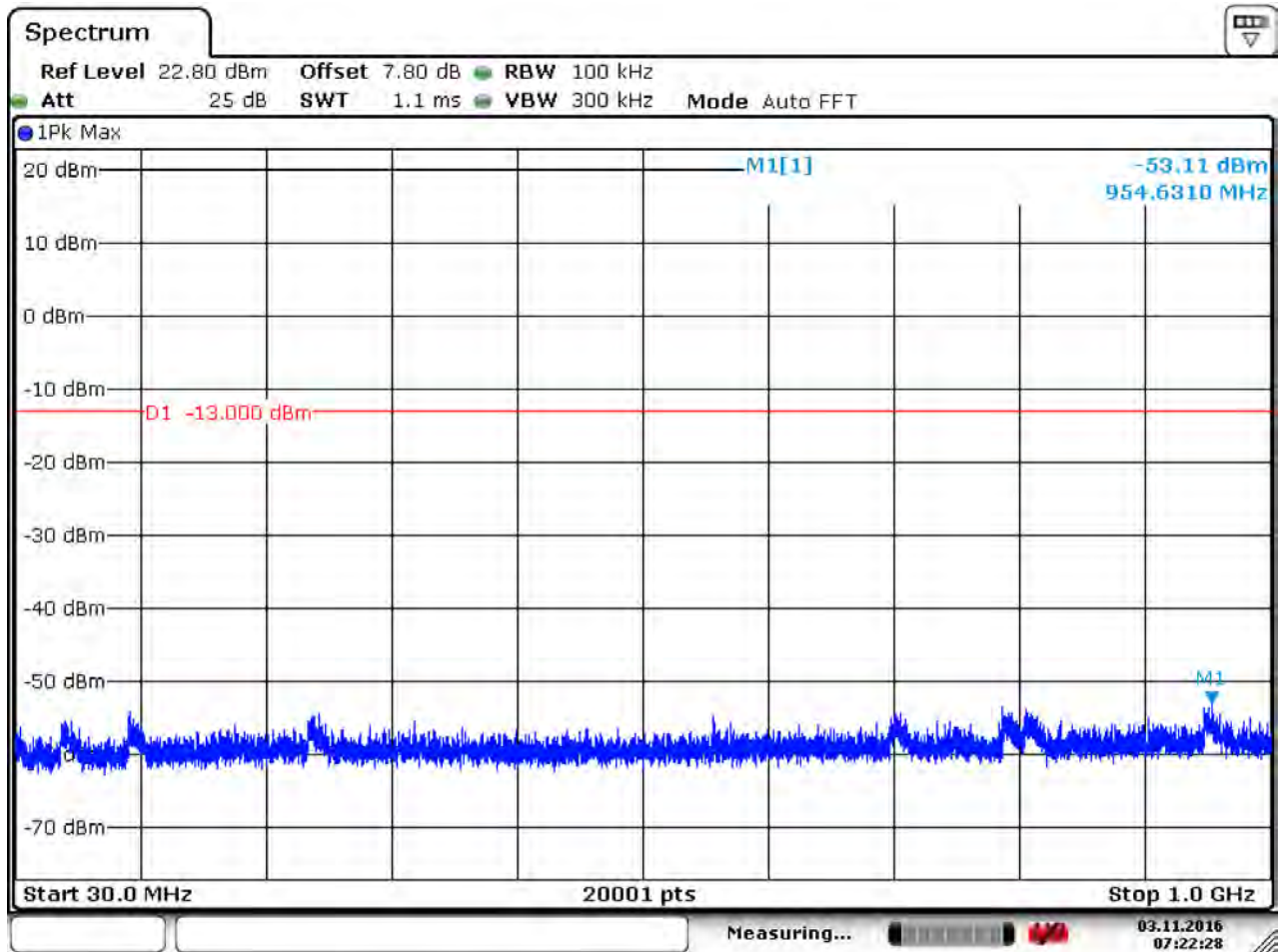
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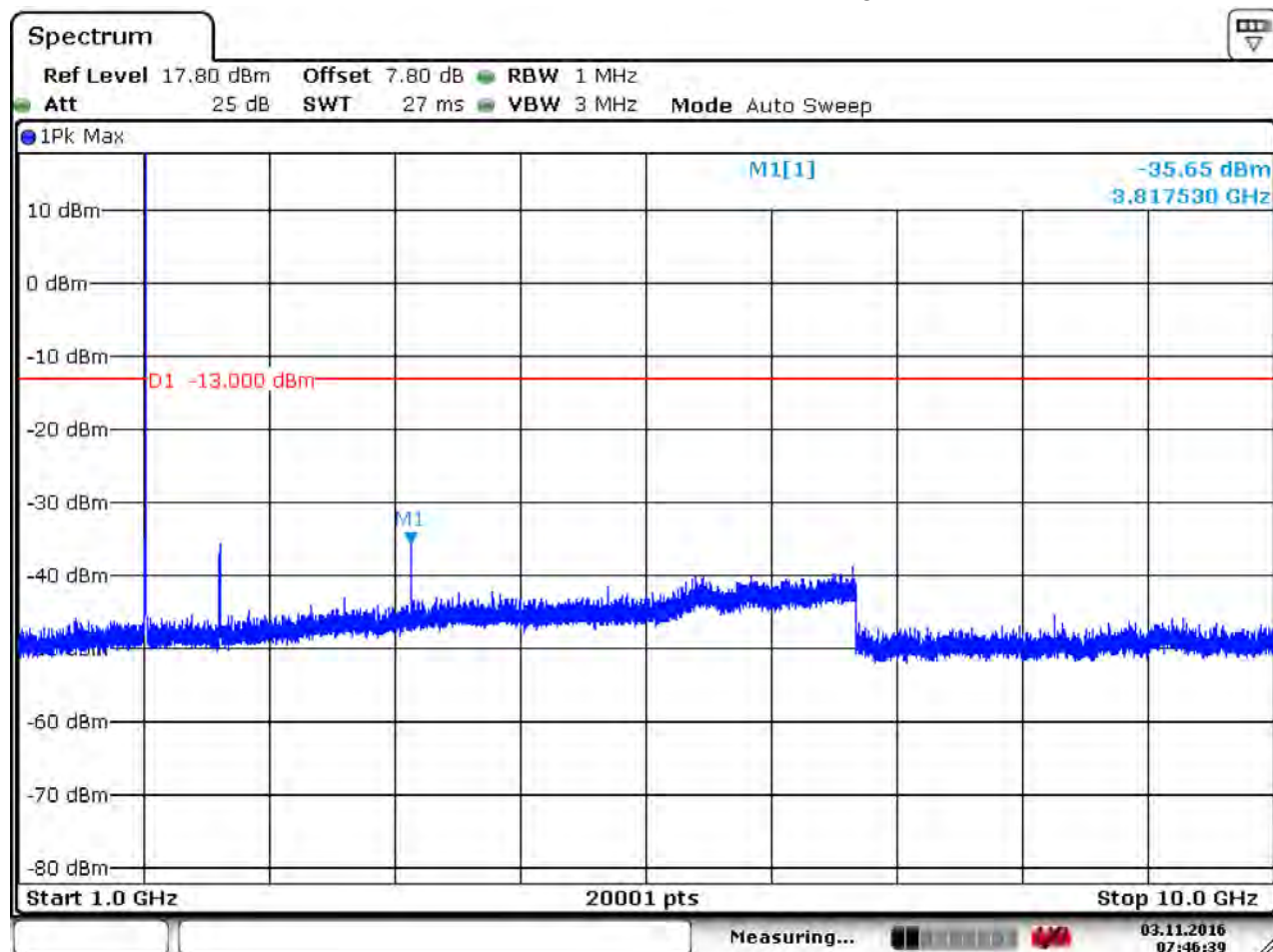
Date: 3.NOV.2016 07:49:07



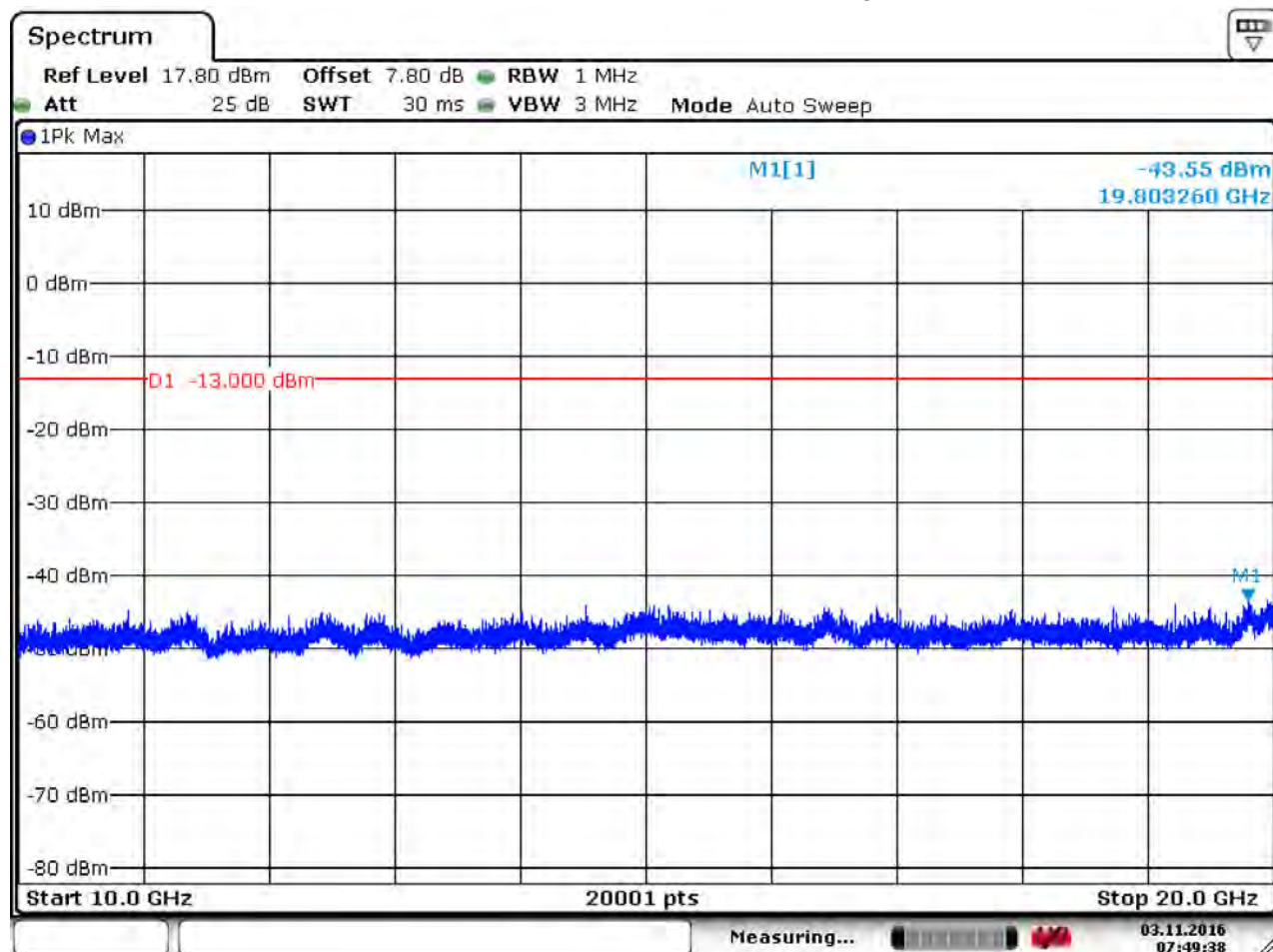
6.1.1.1.3 Test Channel = HCH



Date: 3.NOV.2016 07:22:29



Date: 3.NOV.2016 07:46:40



Date: 3.NOV.2016 07:49:38



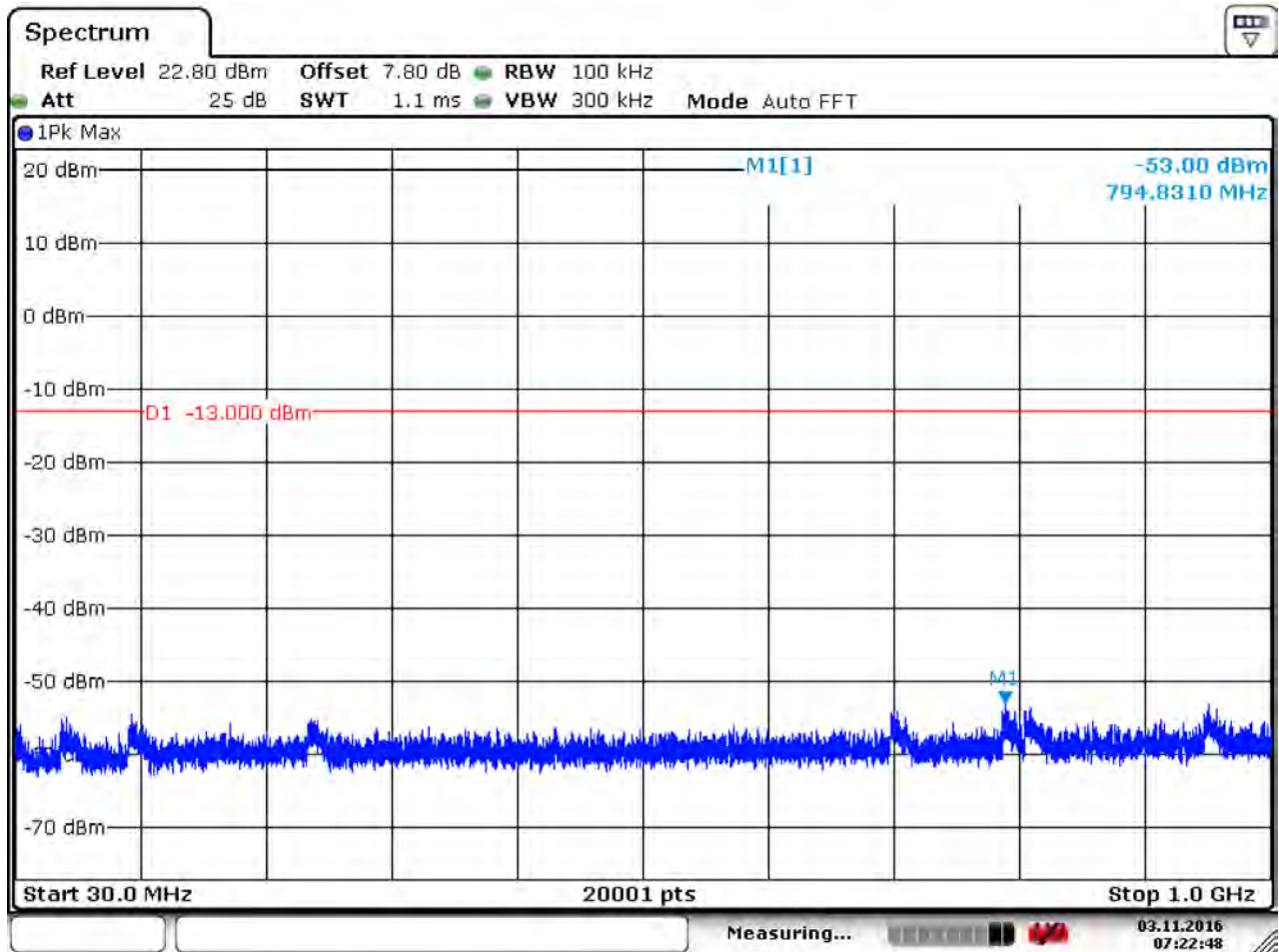
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Shenzhen Branch

Report No.: SZEM161000852202

Page: 187 of 238

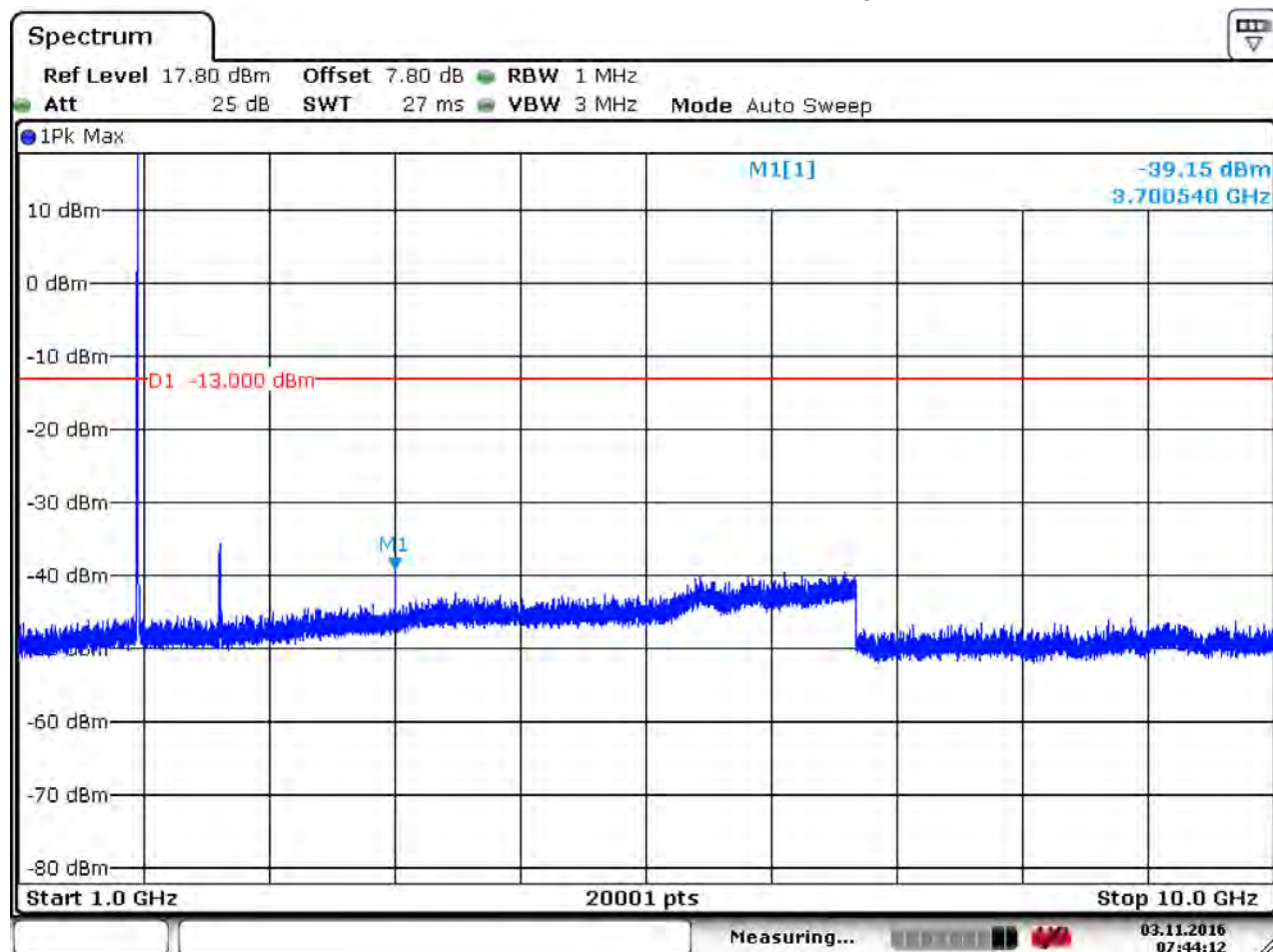
6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH

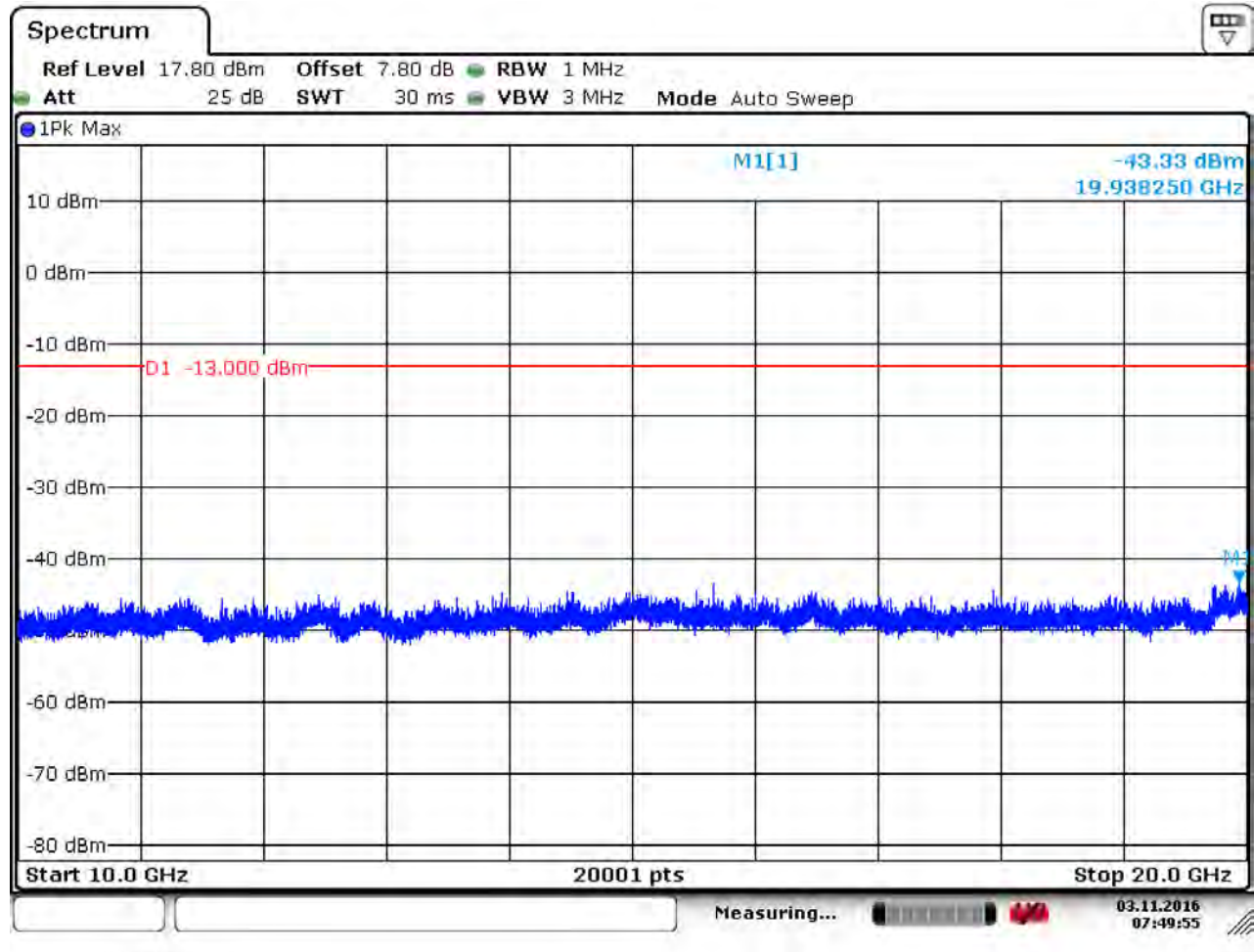


Date: 3.NOV.2016 07:22:48

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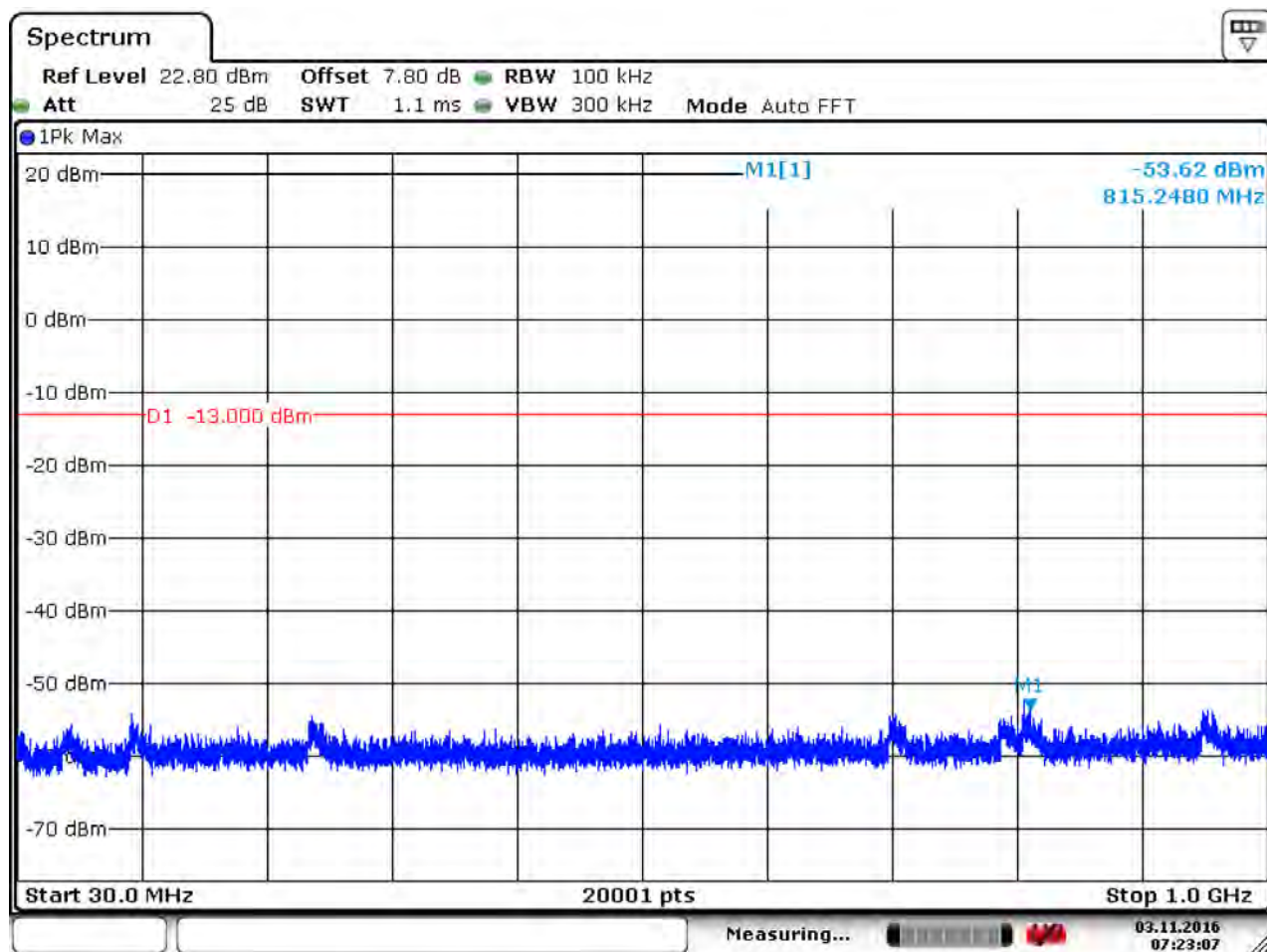
Date: 3.NOV.2016 07:44:13



Date: 3.NOV.2016 07:49:55



6.1.1.2.2 Test Channel = MCH



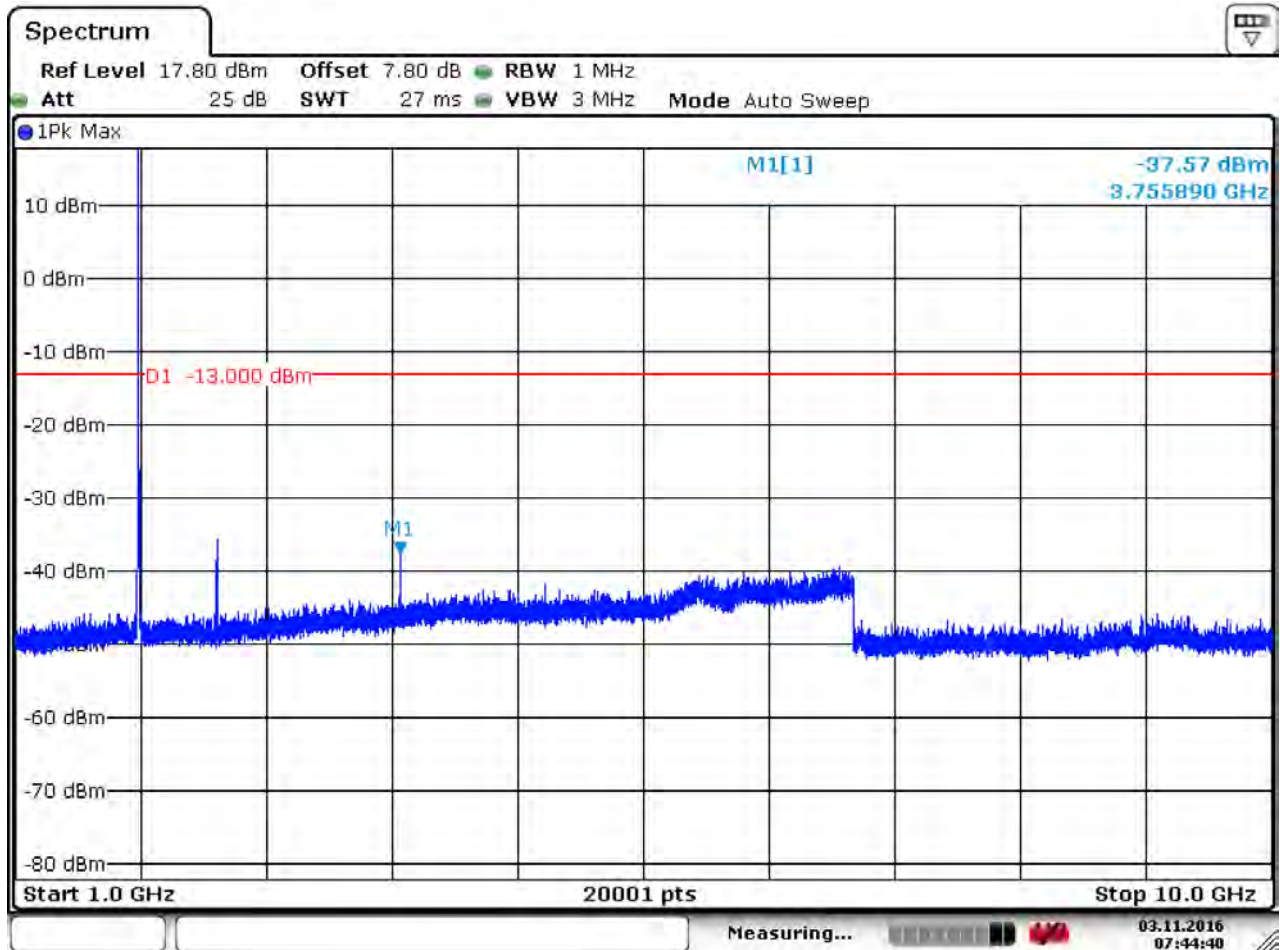
Date: 3.NOV.2016 07:23:07



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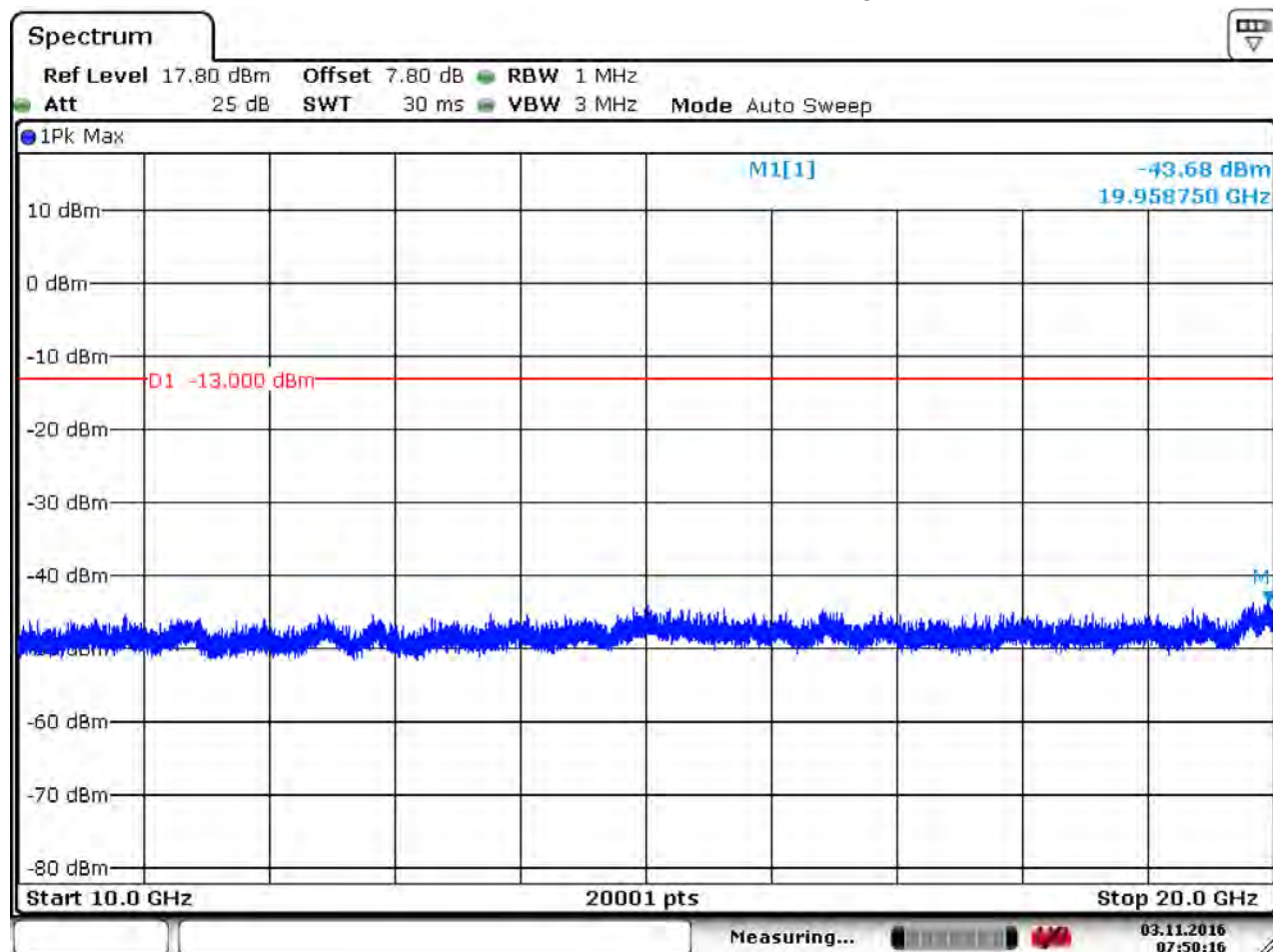
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Page: 191 of 238



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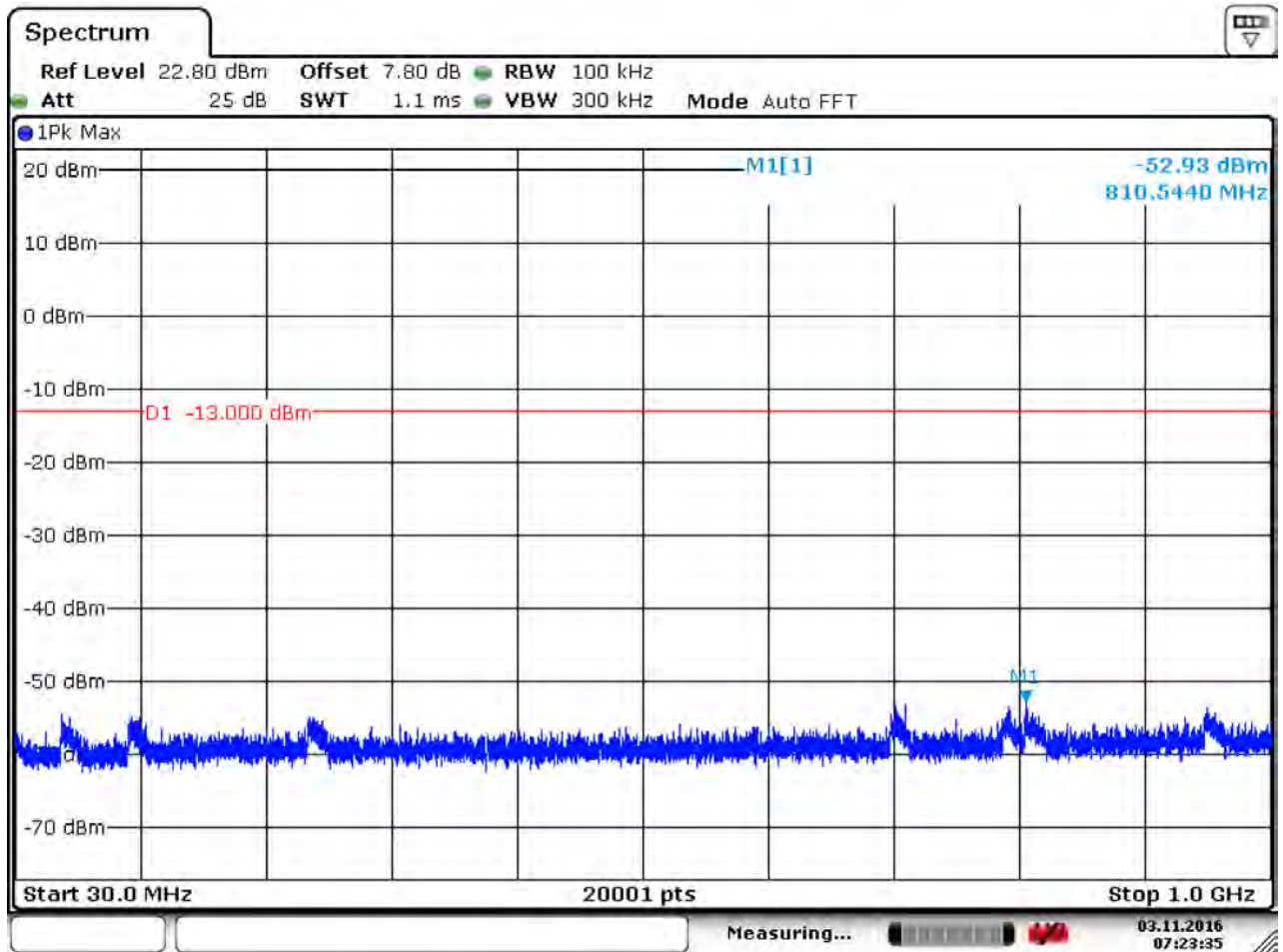


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Report No.: SZEM161000852202

Page: 193 of 238

6.1.1.2.3 Test Channel = HCH



Date: 3.NOV.2016 07:23:36

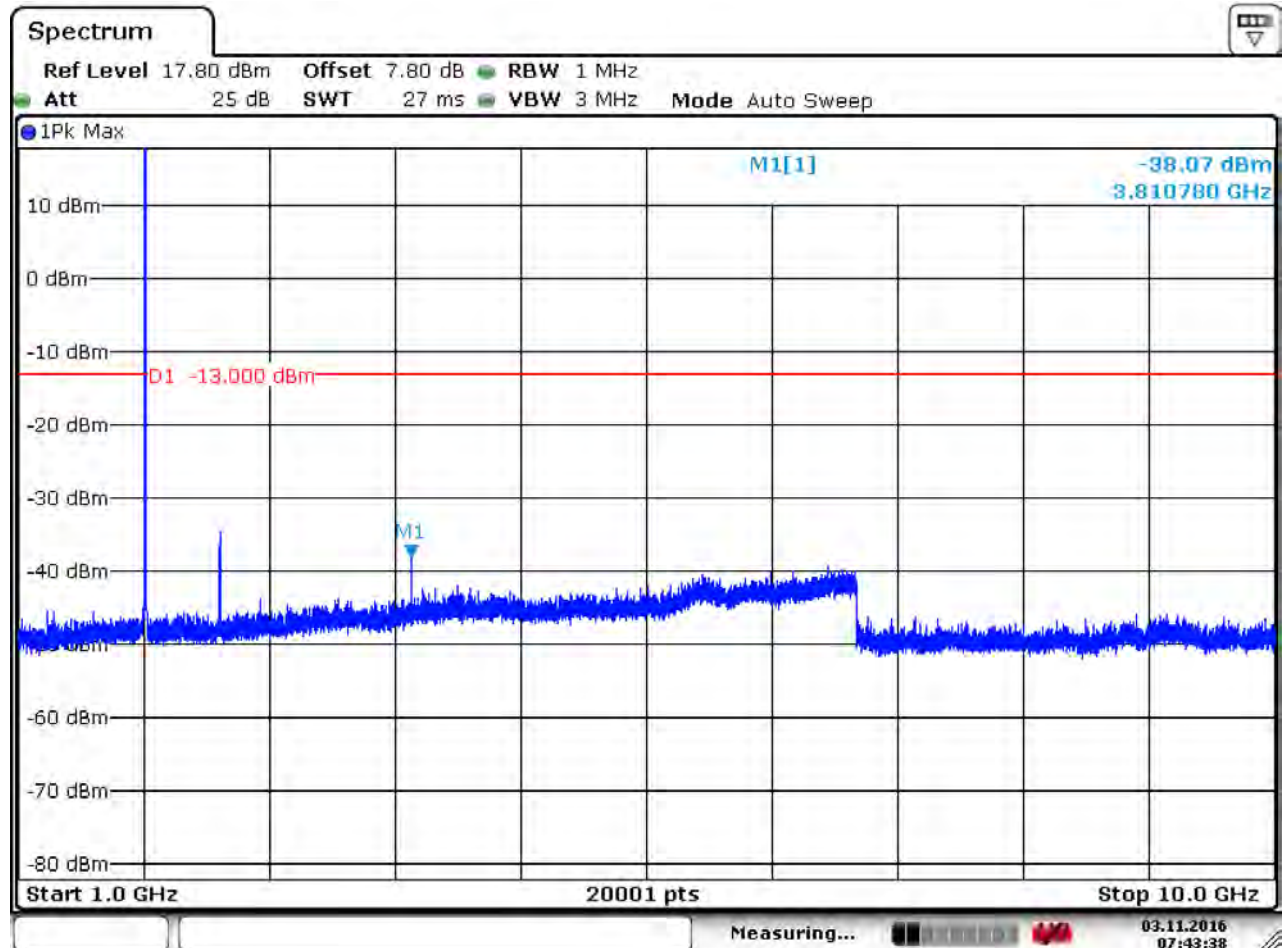
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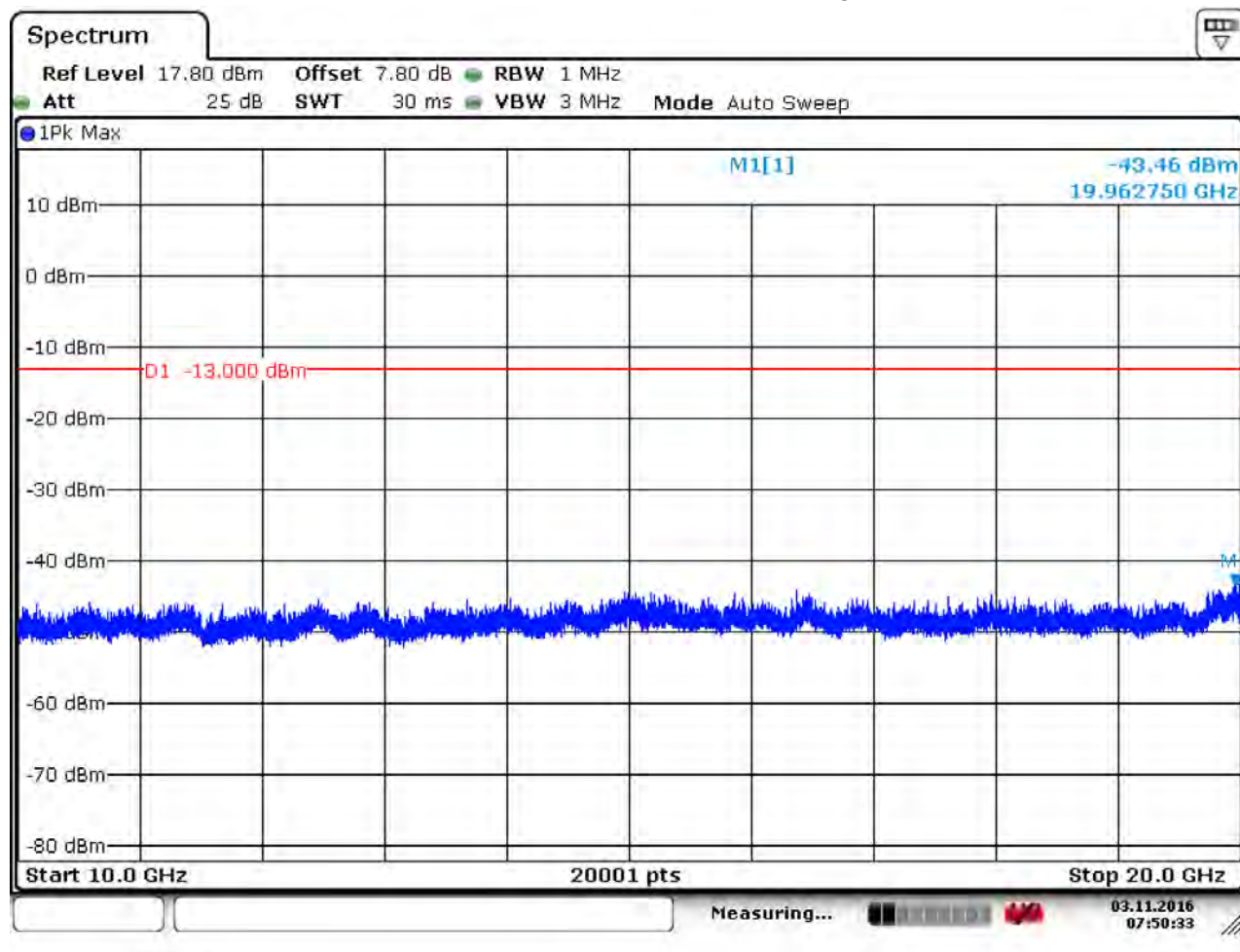
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Page: 194 of 238



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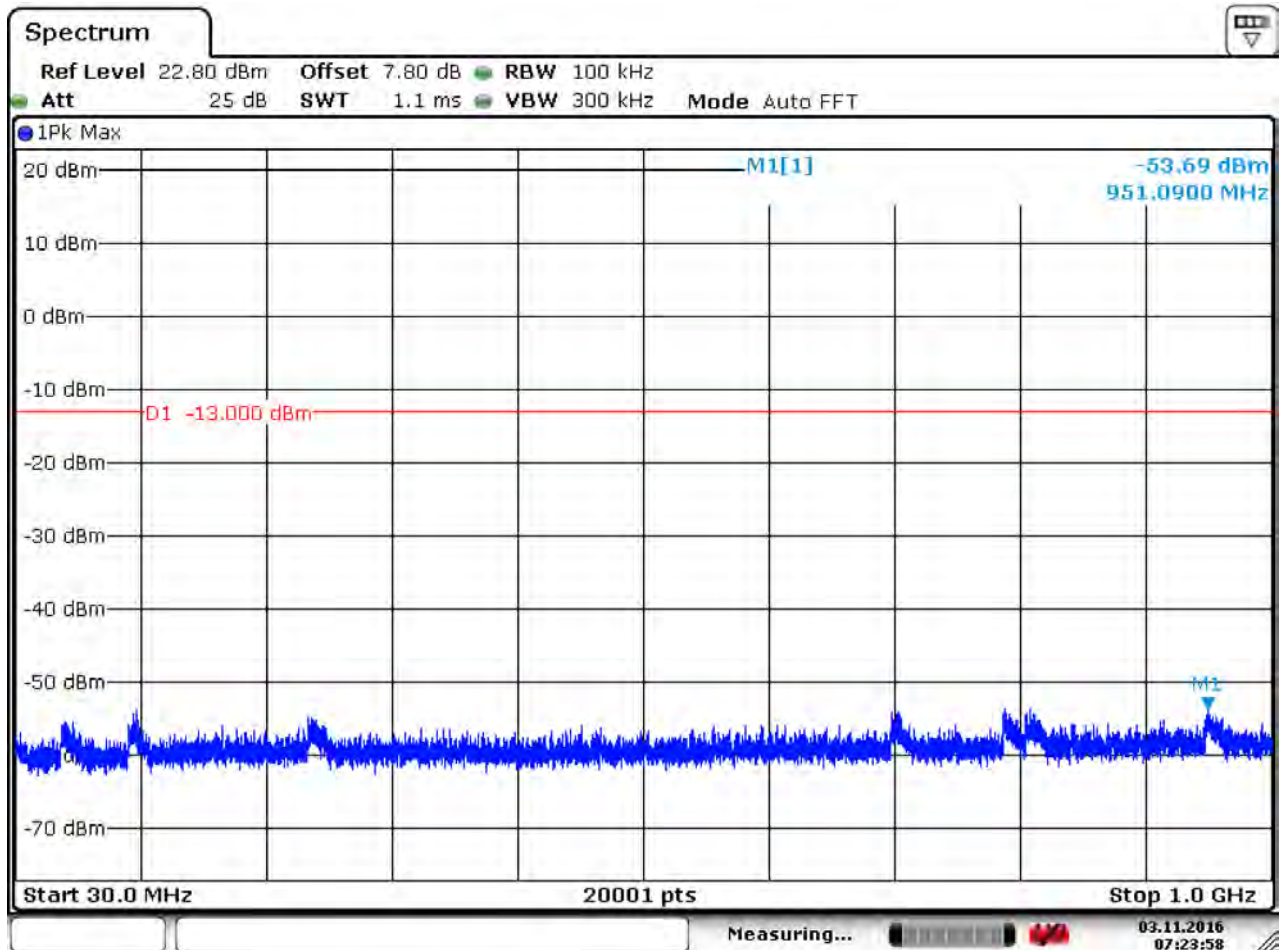
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Report No.: SZEM161000852202

Page: 196 of 238

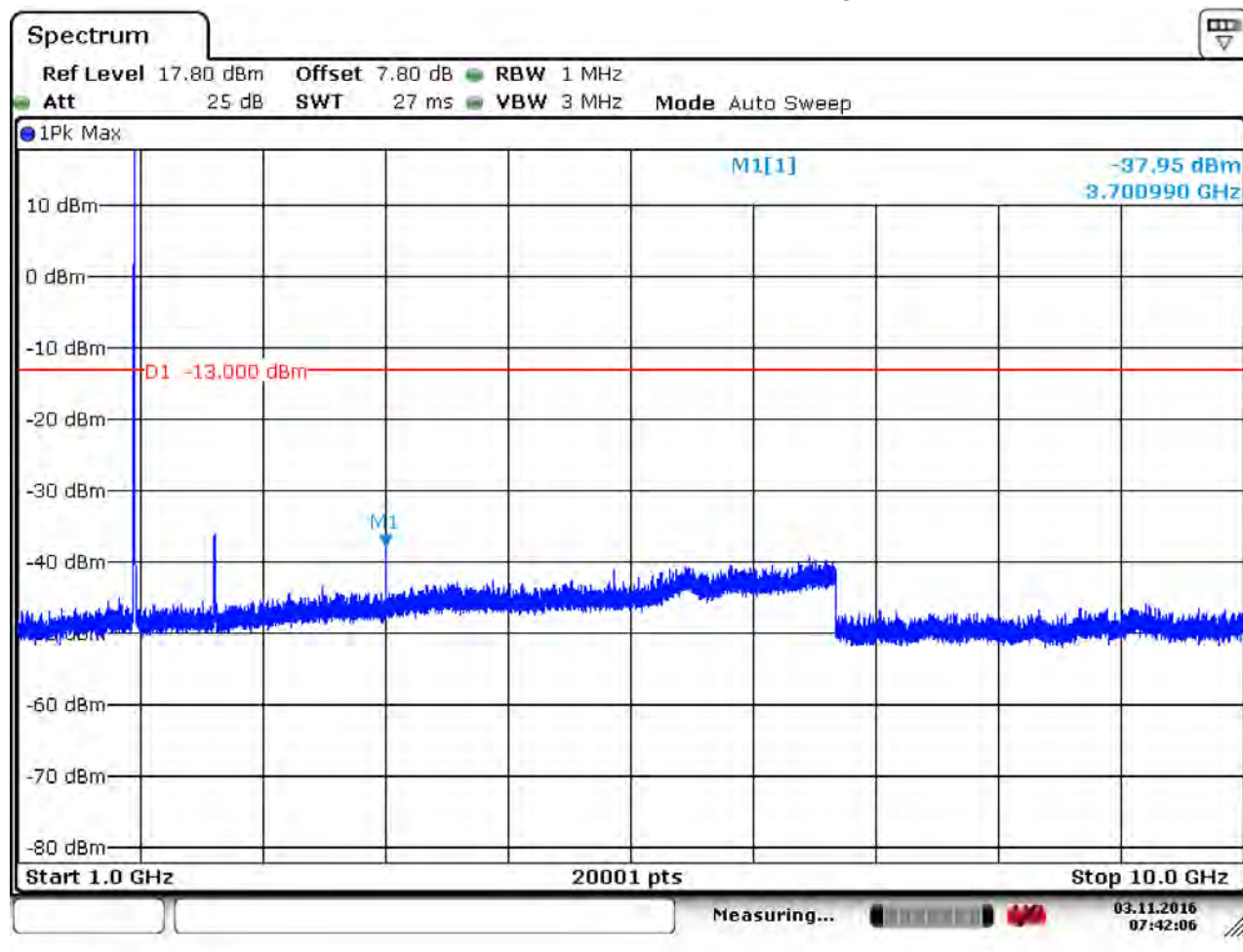
6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH

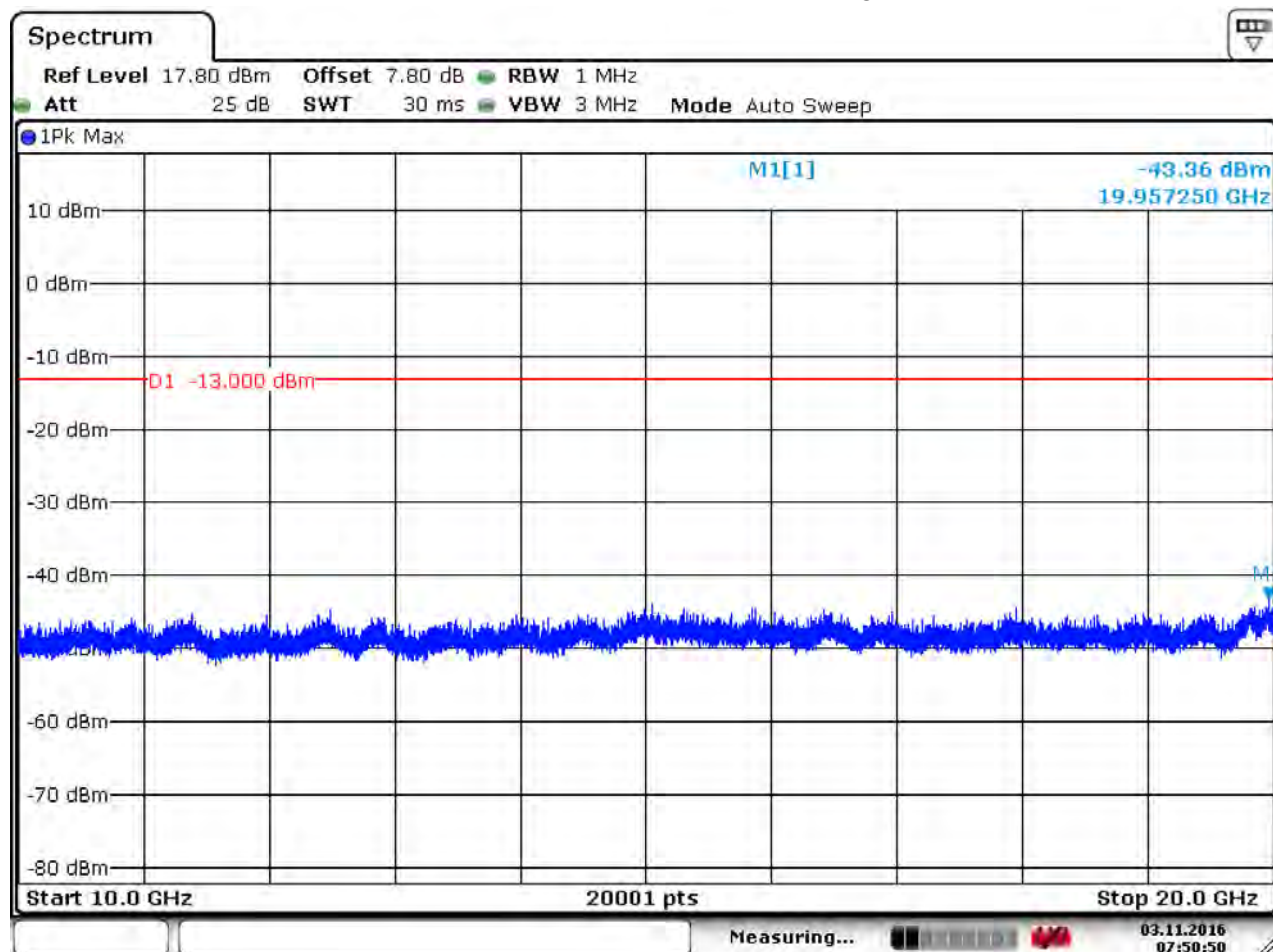


Date: 3.NOV.2016 07:23:58

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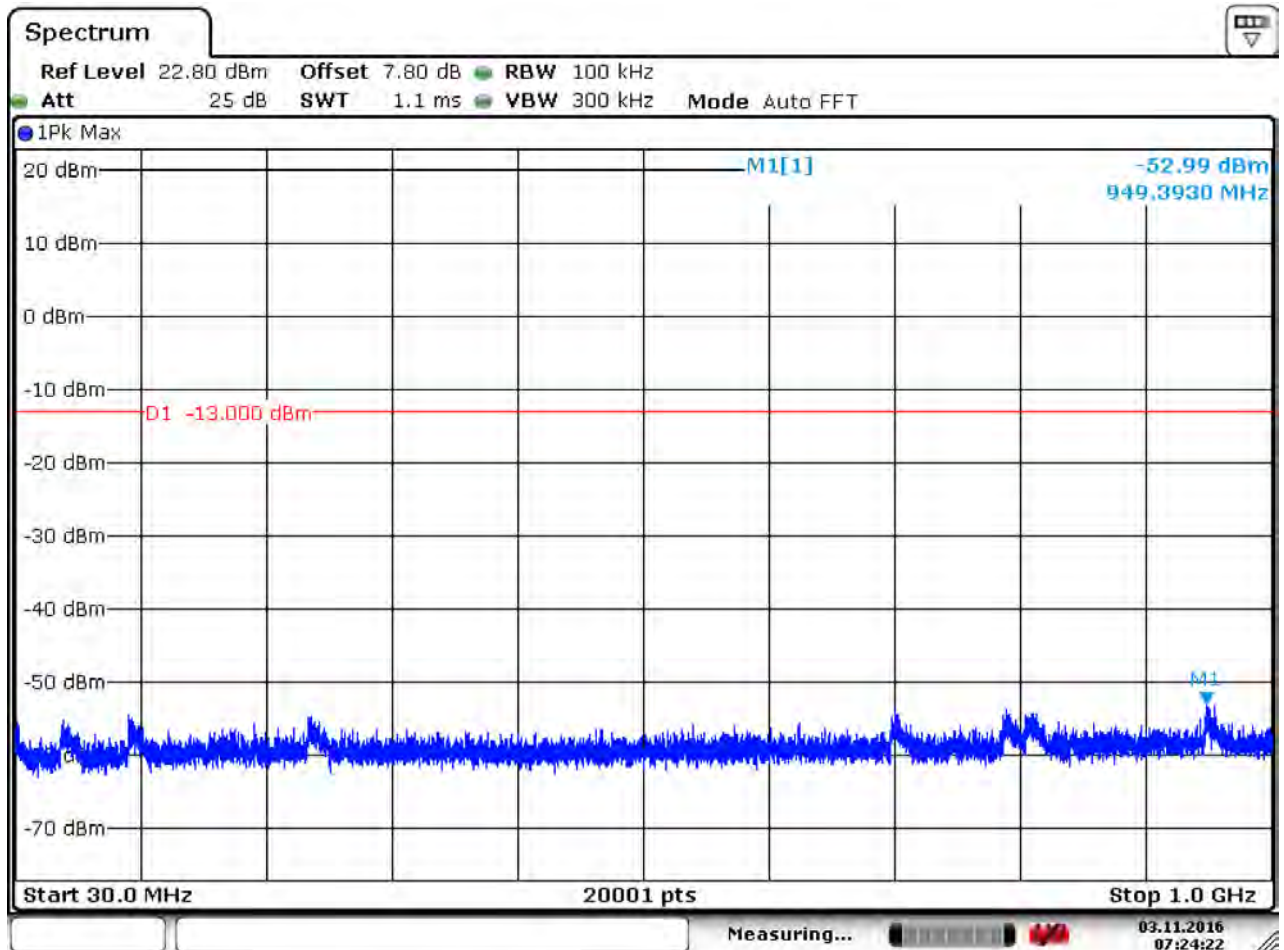
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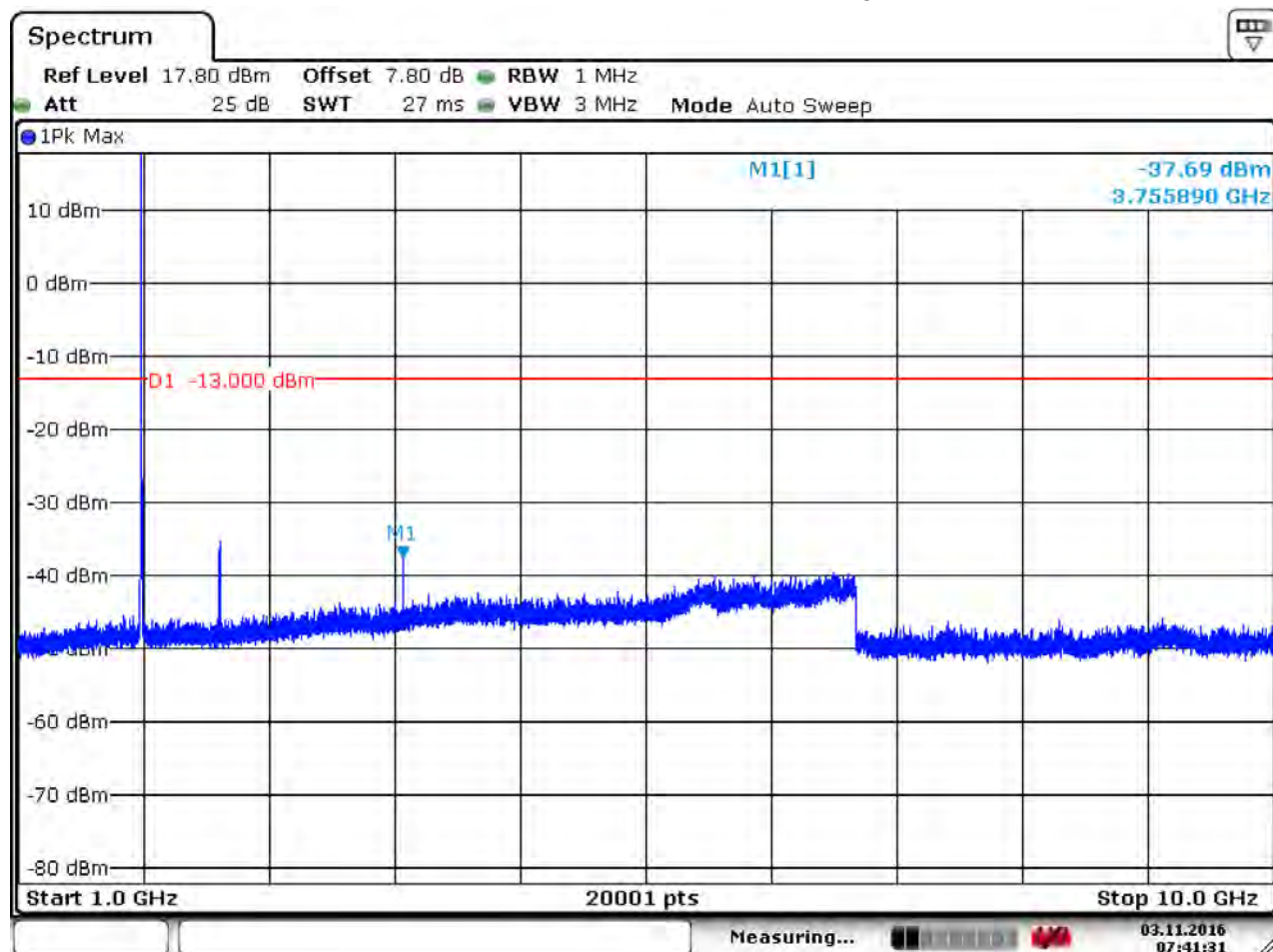
Date: 3.NOV.2016 07:50:51



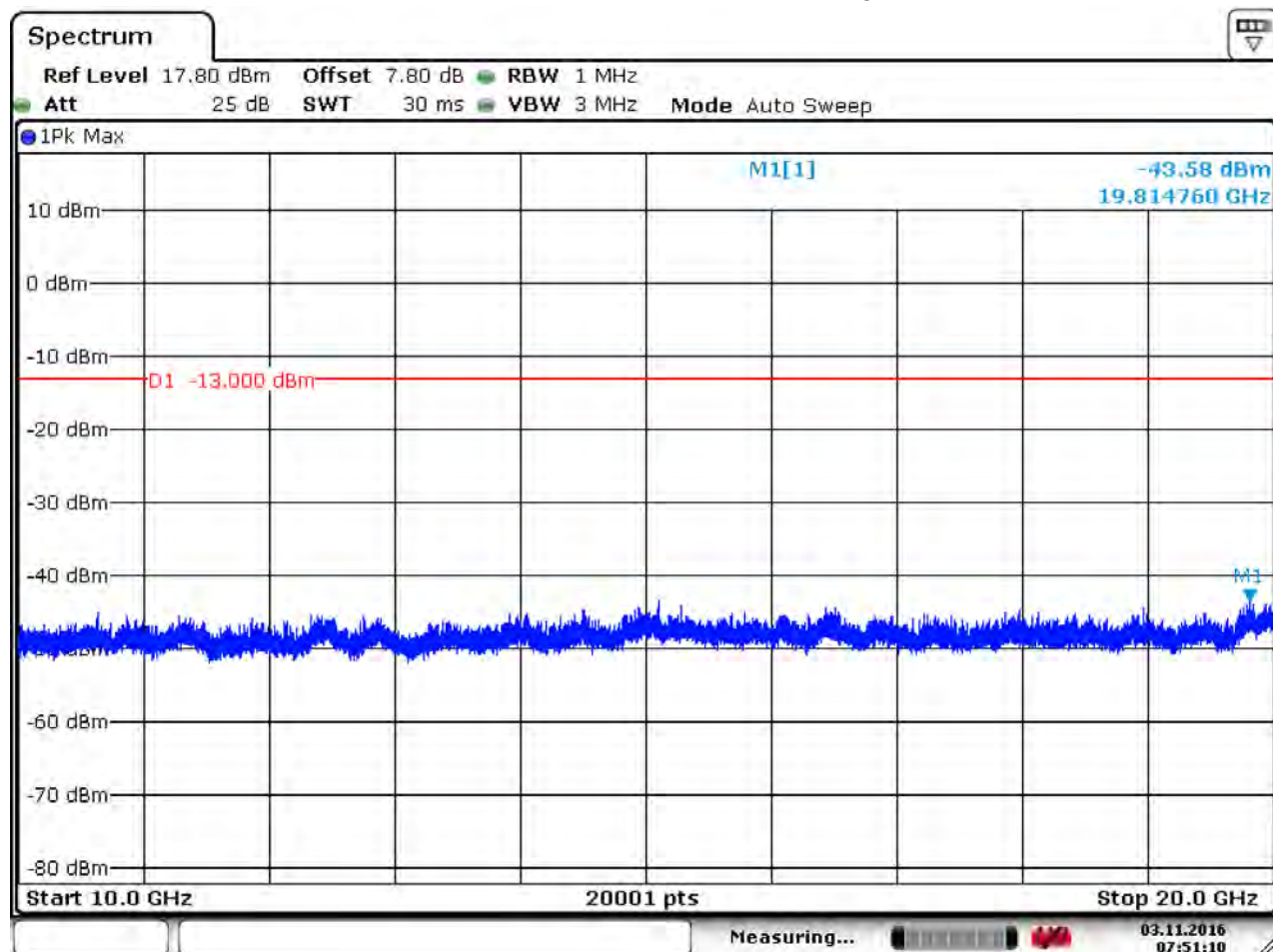
6.1.1.3.2 Test Channel = MCH



Date: 3.NOV.2016 07:24:22



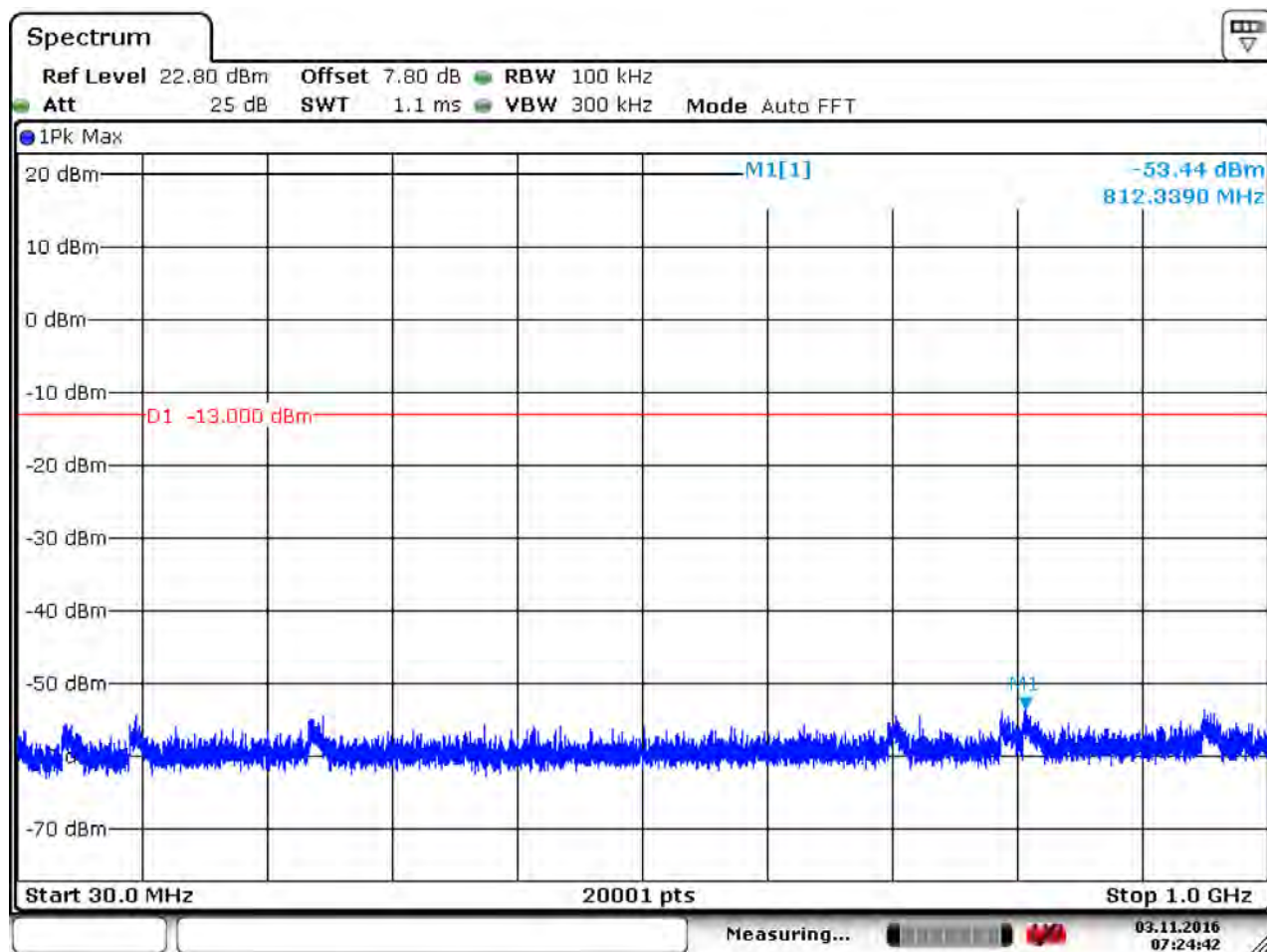
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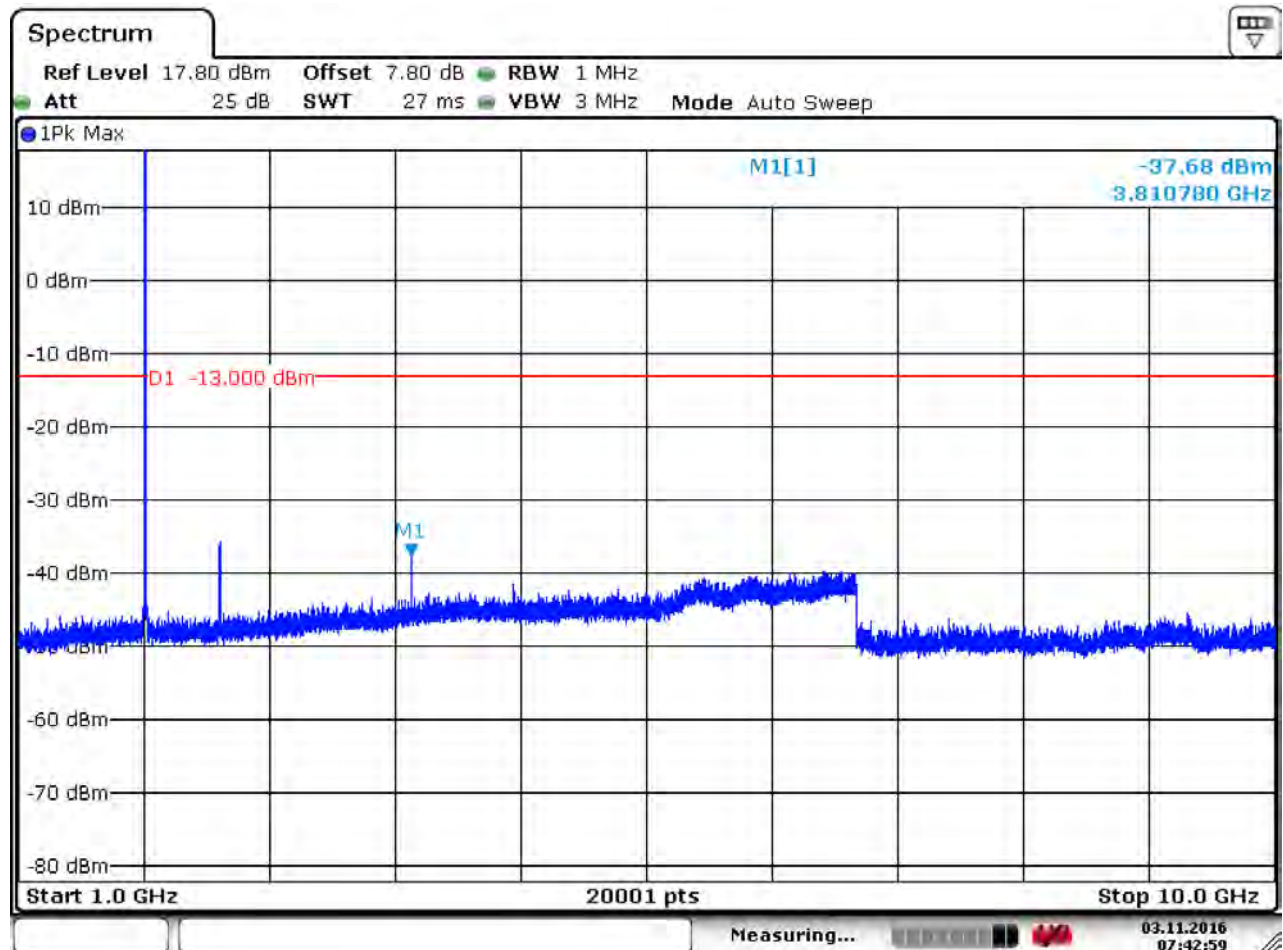
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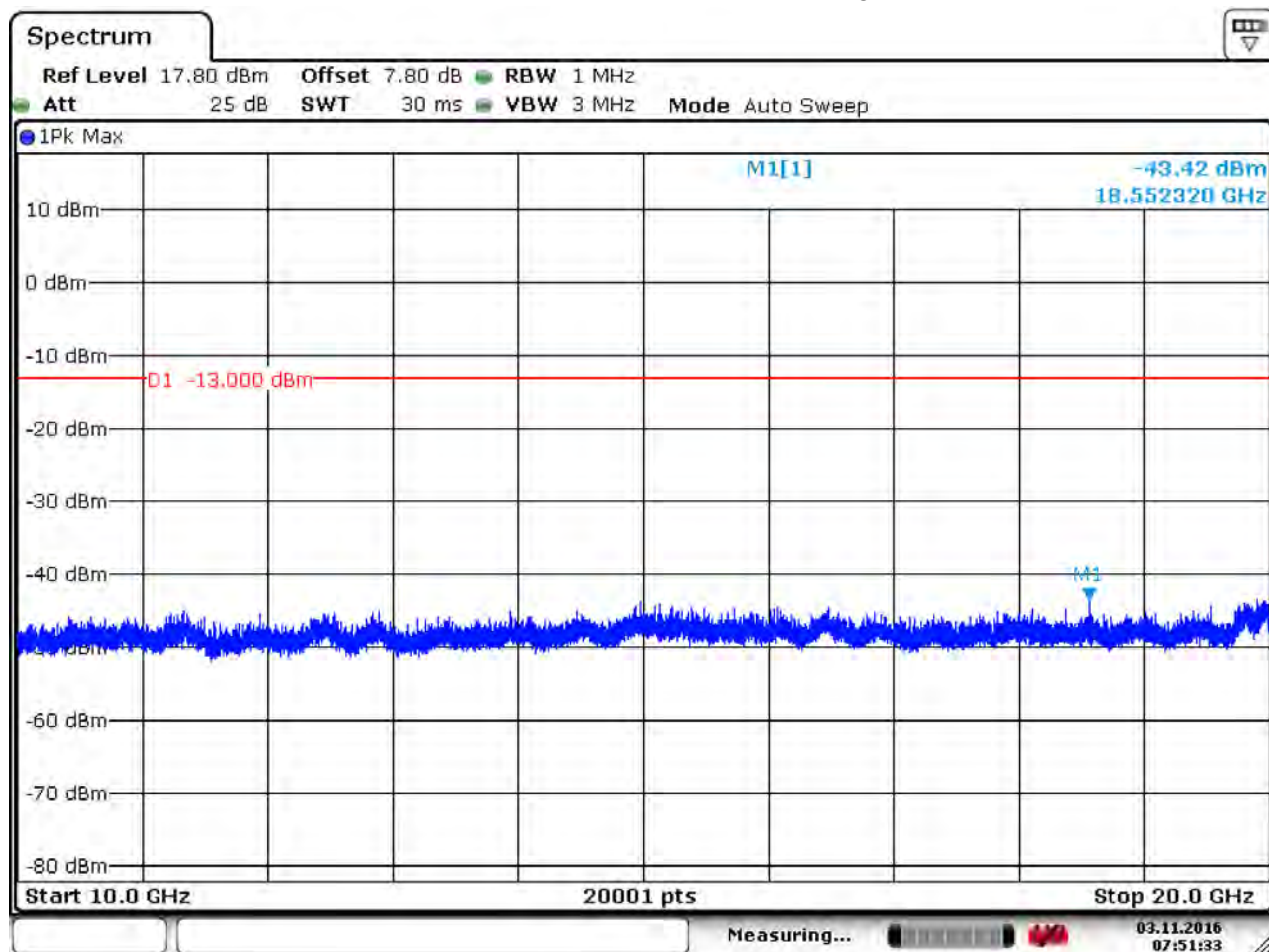
6.1.1.3.3 Test Channel = HCH



Date: 3.NOV.2016 07:24:42



Date: 3.NOV.2016 07:43:00



Date: 3.NOV.2016 07:51:34



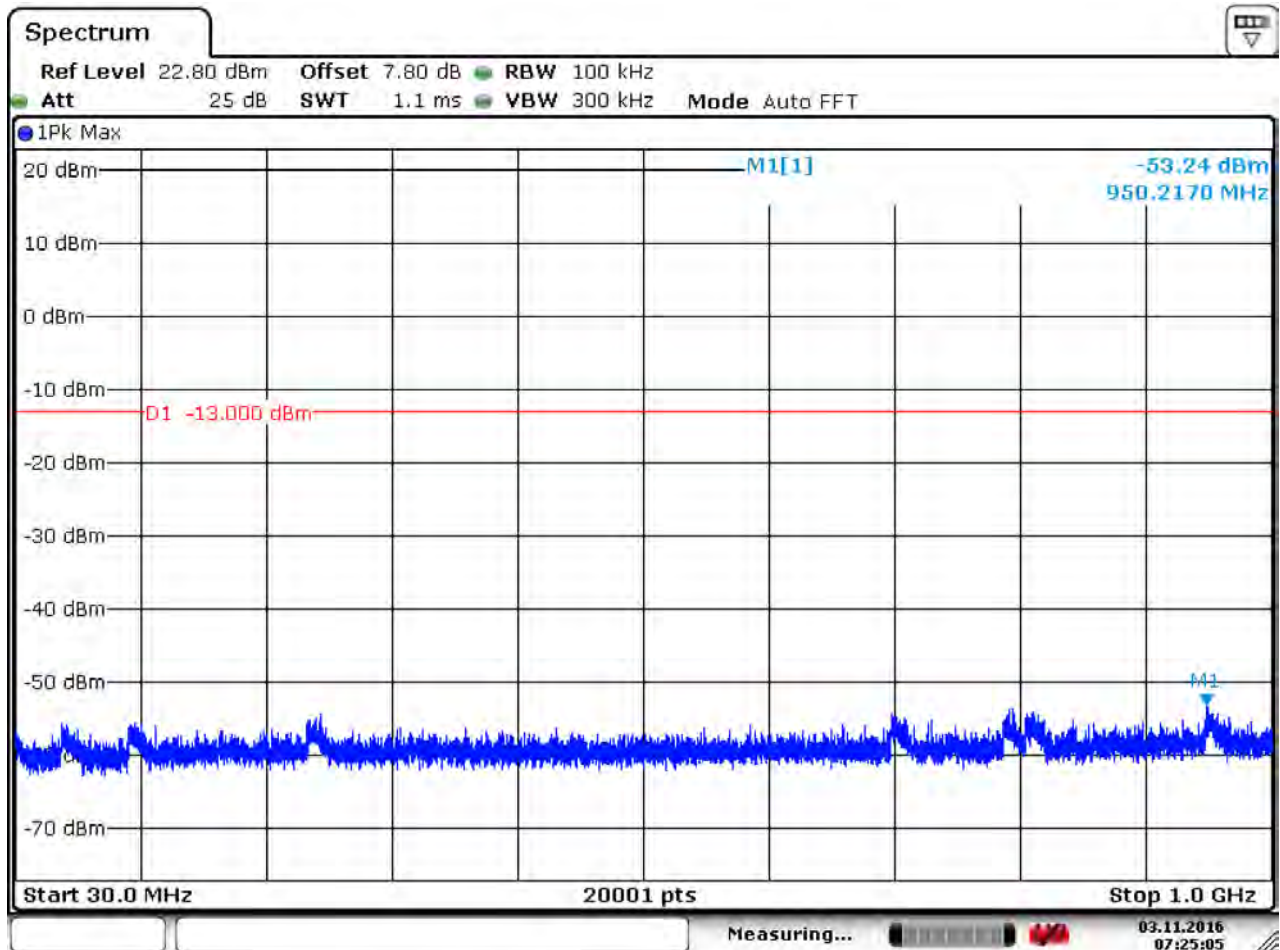
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Shenzhen Branch

Report No.: SZEM161000852202

Page: 205 of 238

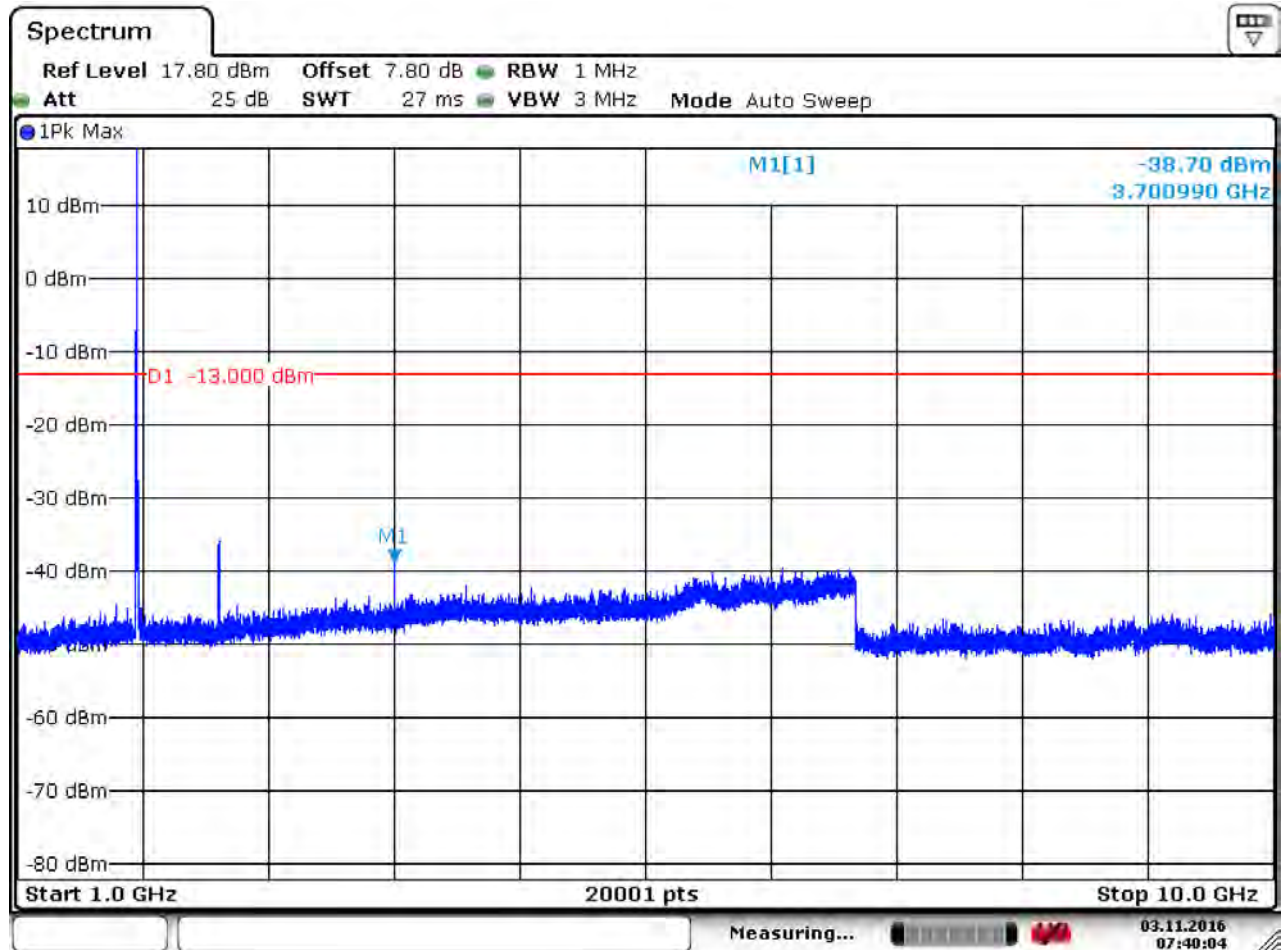
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH

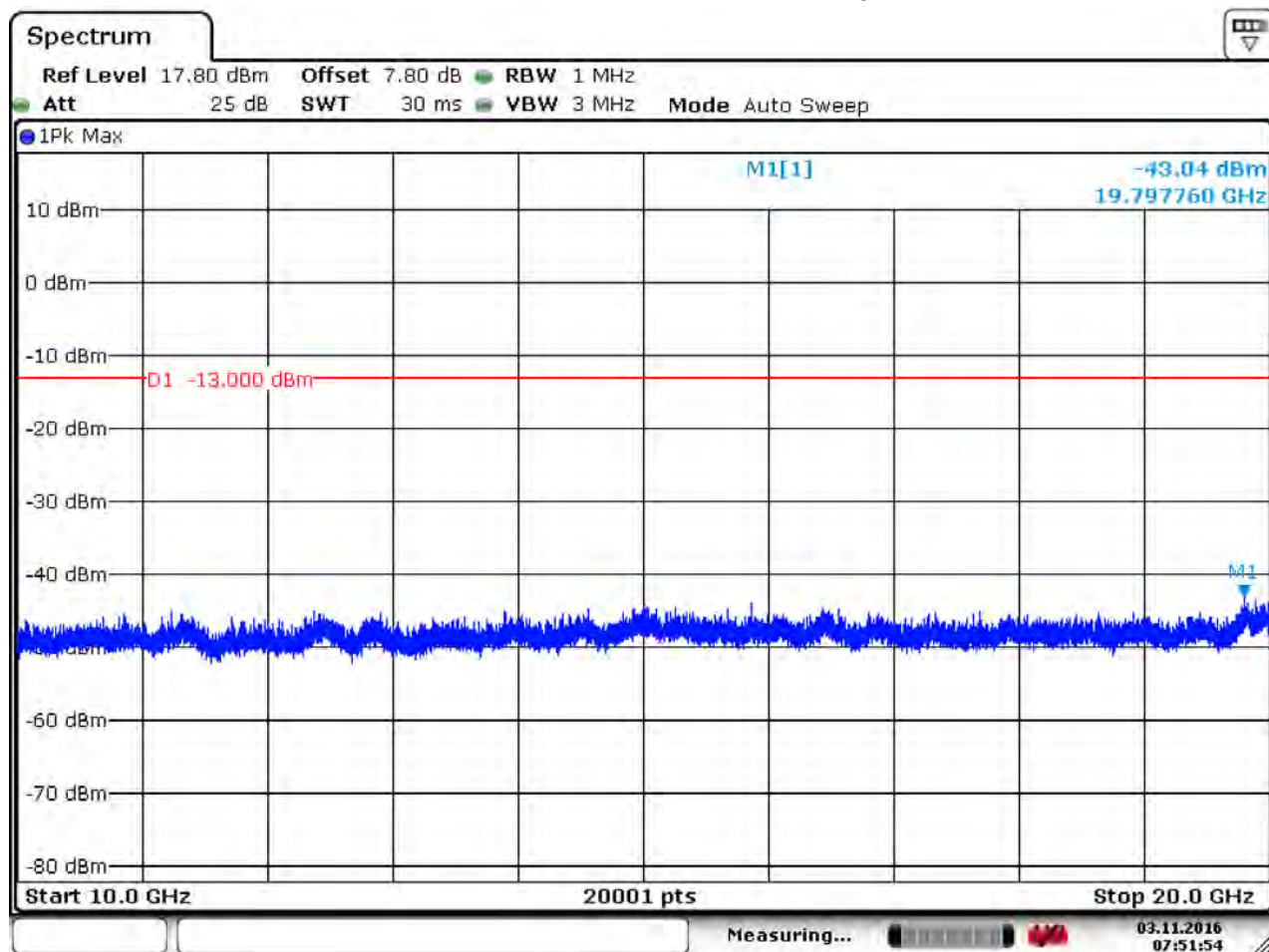


Date: 3.NOV.2016 07:25:06

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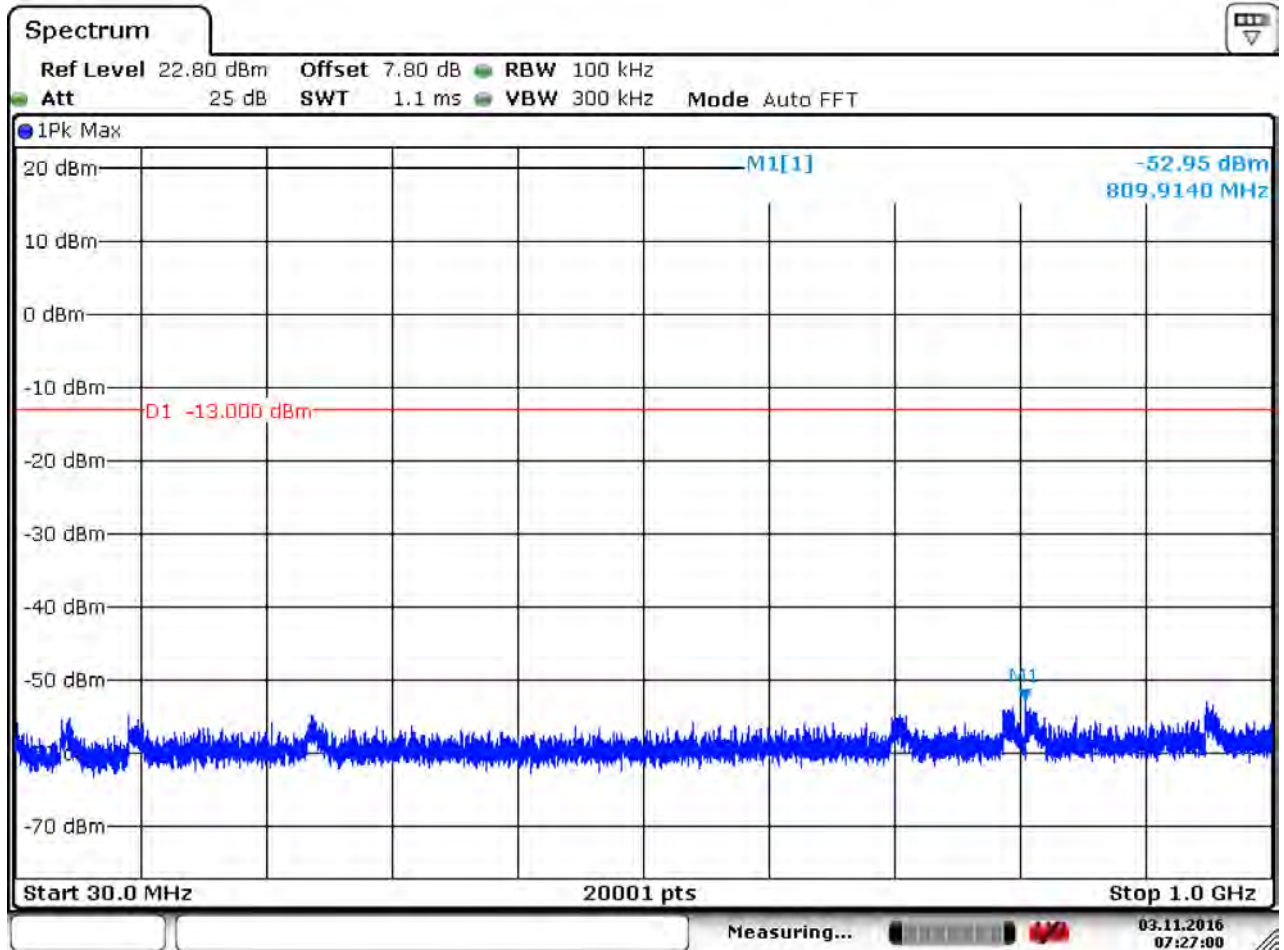
Date: 3.NOV.2016 07:40:04



Date: 3.NOV.2016 07:51:54



6.1.1.4.2 Test Channel = MCH



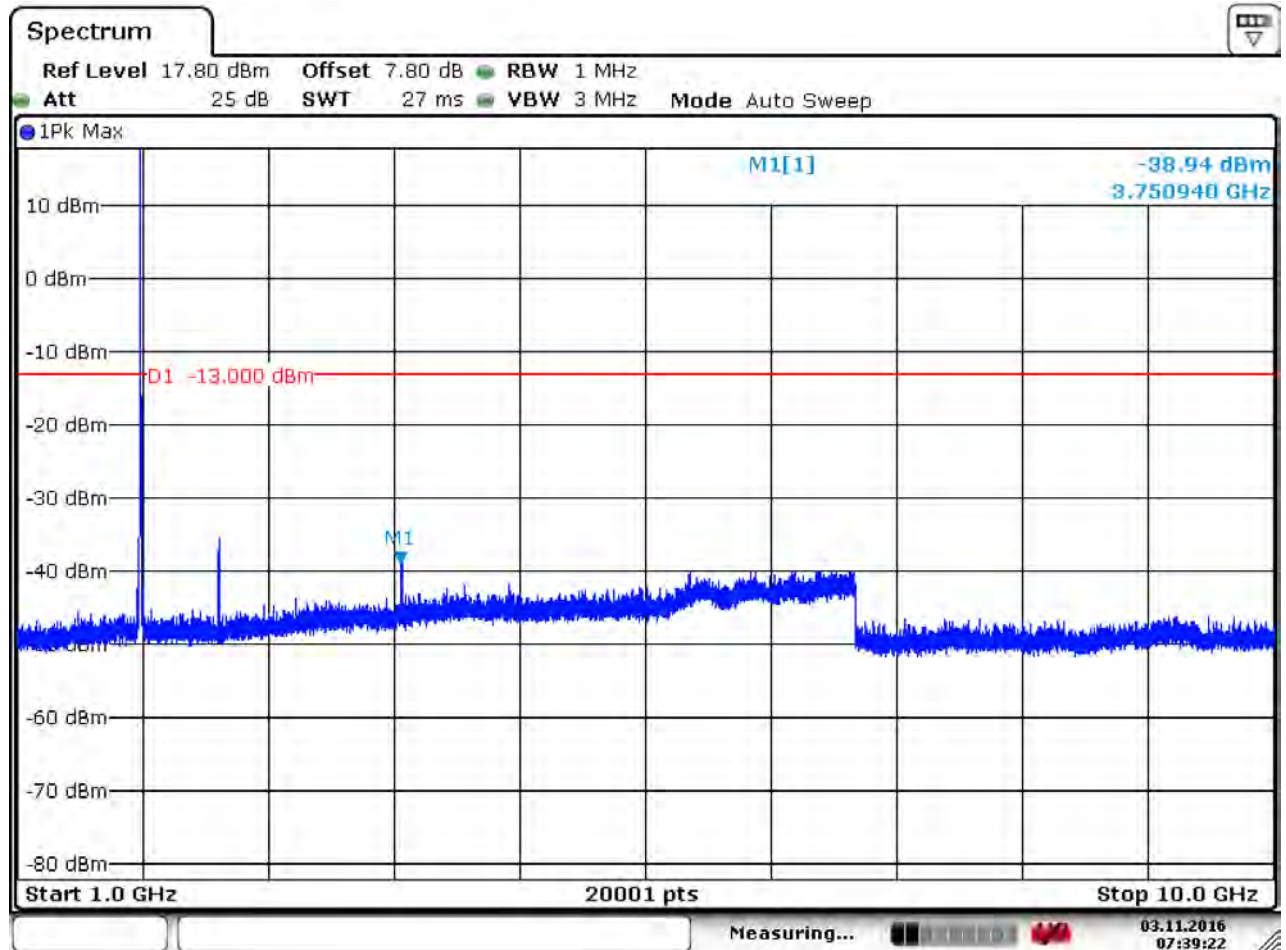
Date: 3.NOV.2016 07:27:01



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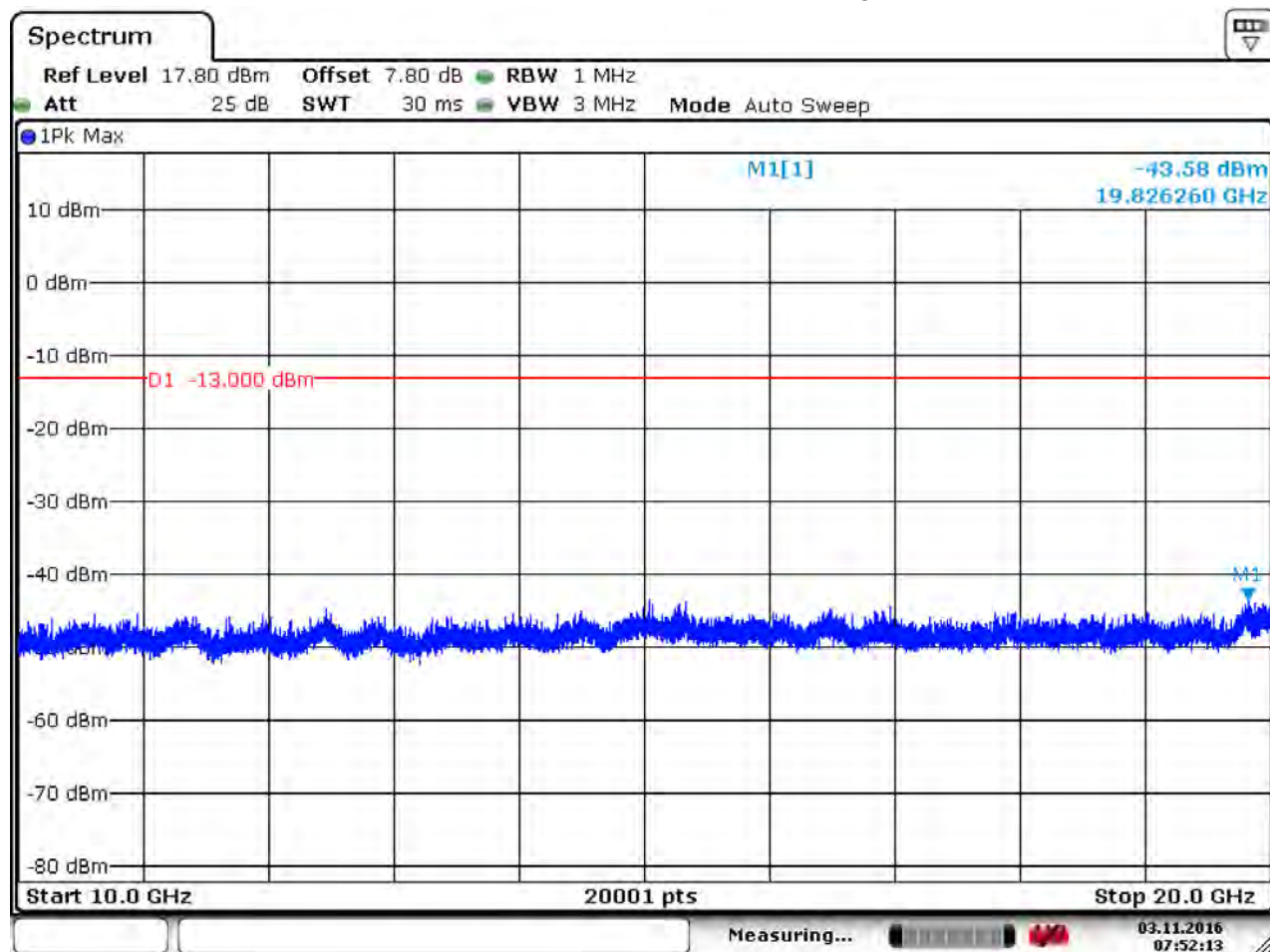
Report No.: SZEM161000852202

Page: 209 of 238



Date: 3.NOV.2016 07:39:22

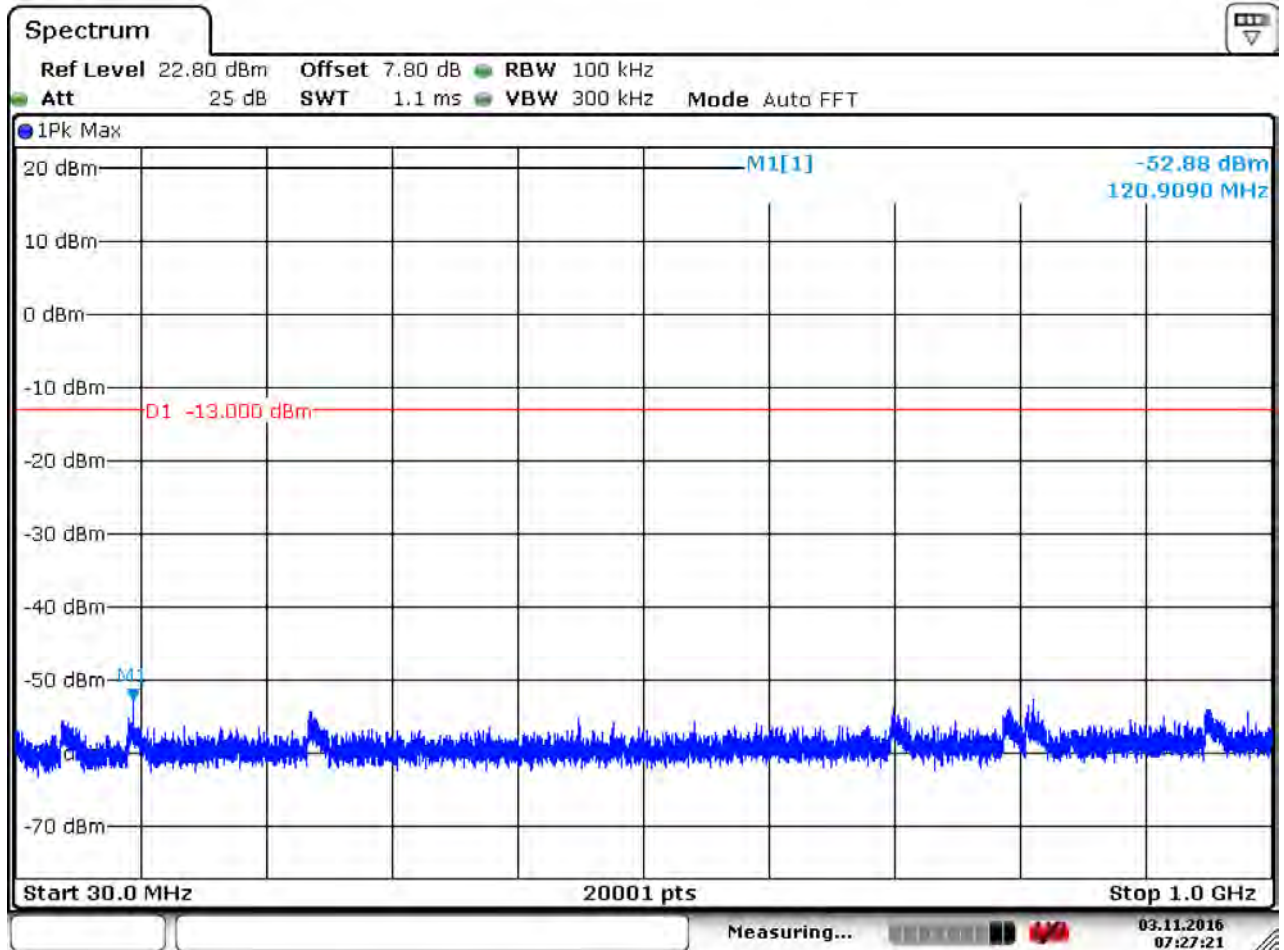
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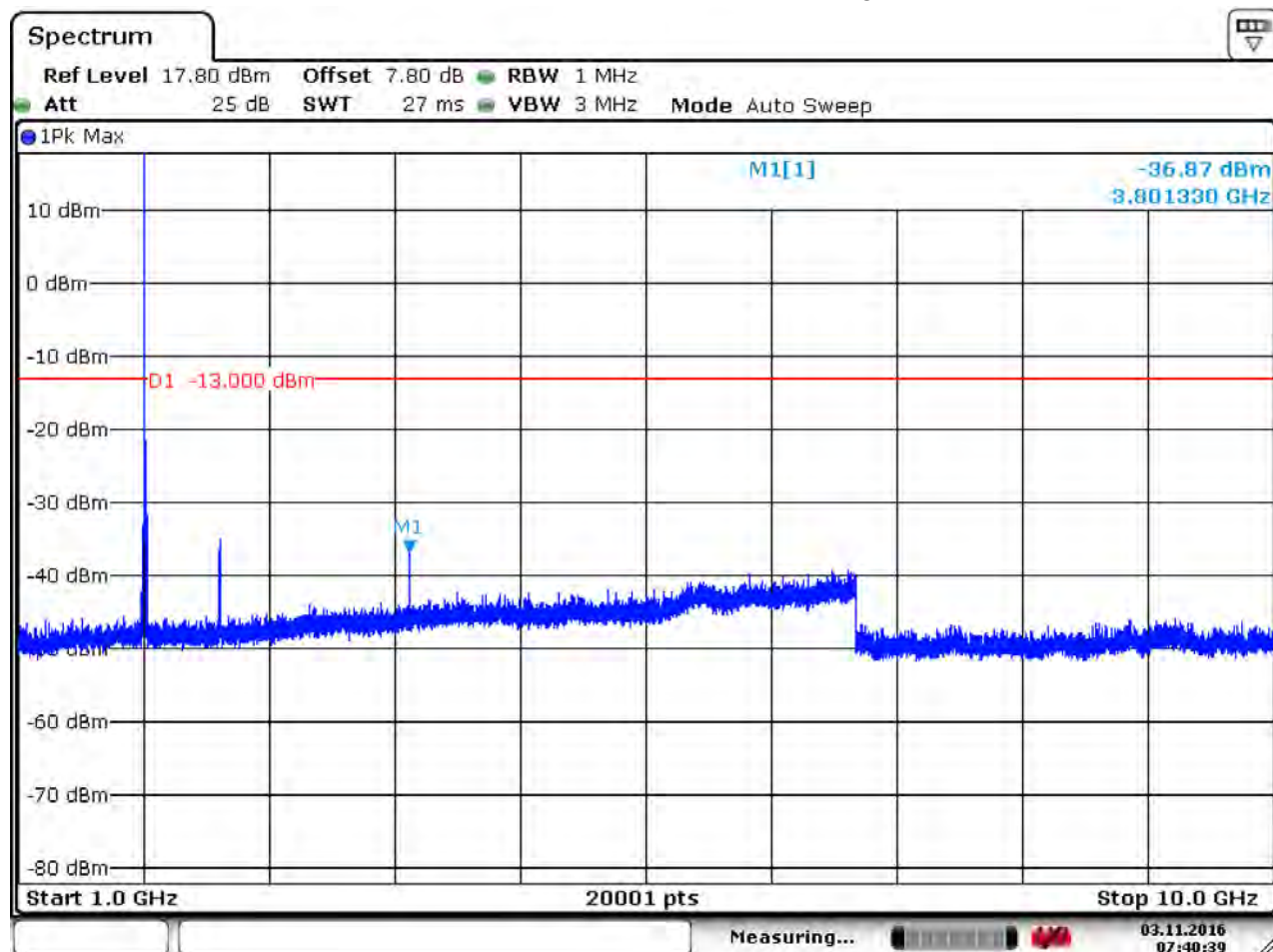
Date: 3.NOV.2016 07:52:13



6.1.1.4.3 Test Channel = HCH



Date: 3.NOV.2016 07:27:22

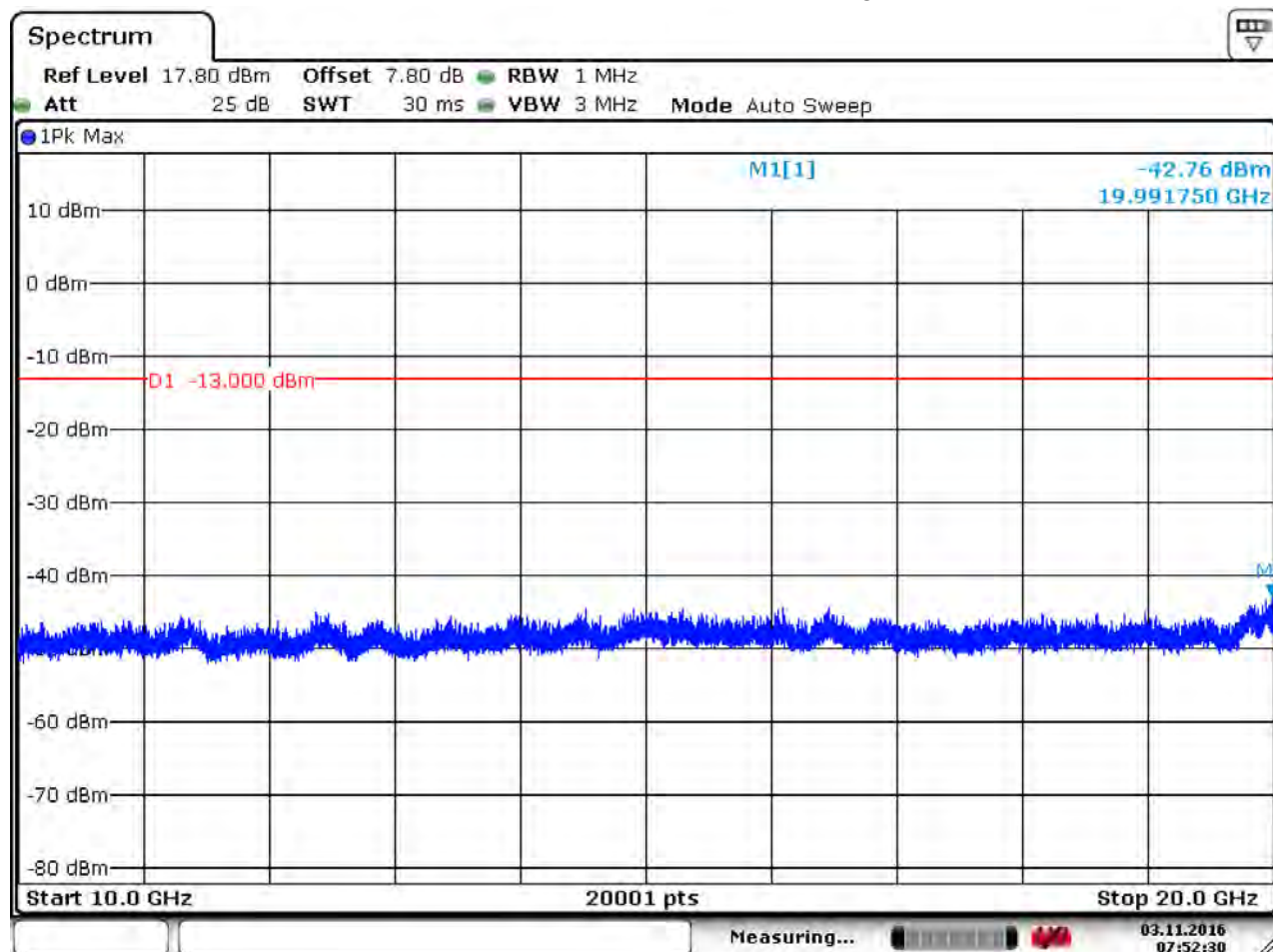


Date: 3.NOV.2016 07:40:39



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Shenzhen Branch

Report No.: SZEM161000852202
Page: 213 of 238



Date: 3.NOV.2016 07:52:31

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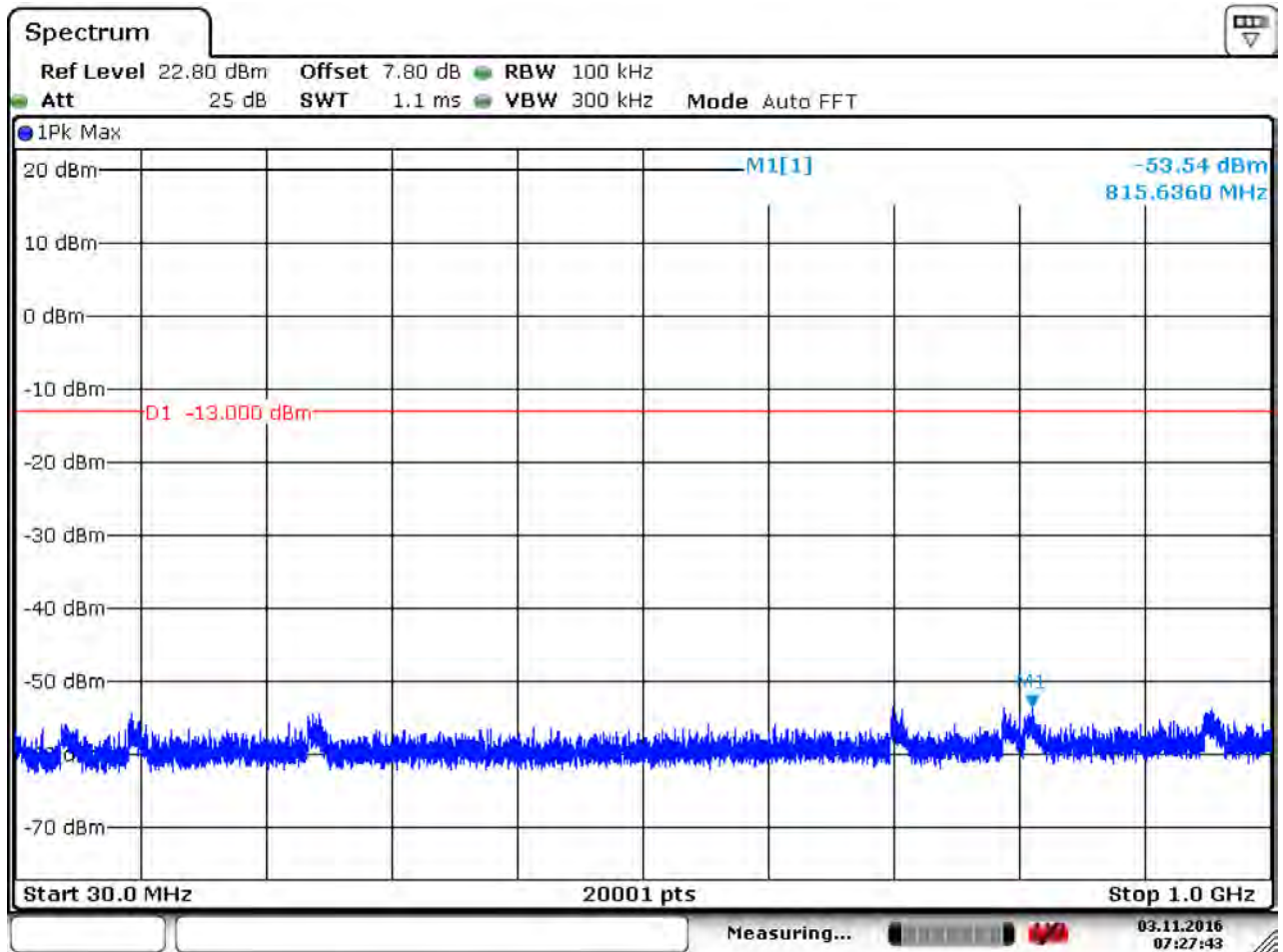
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 214 of 238

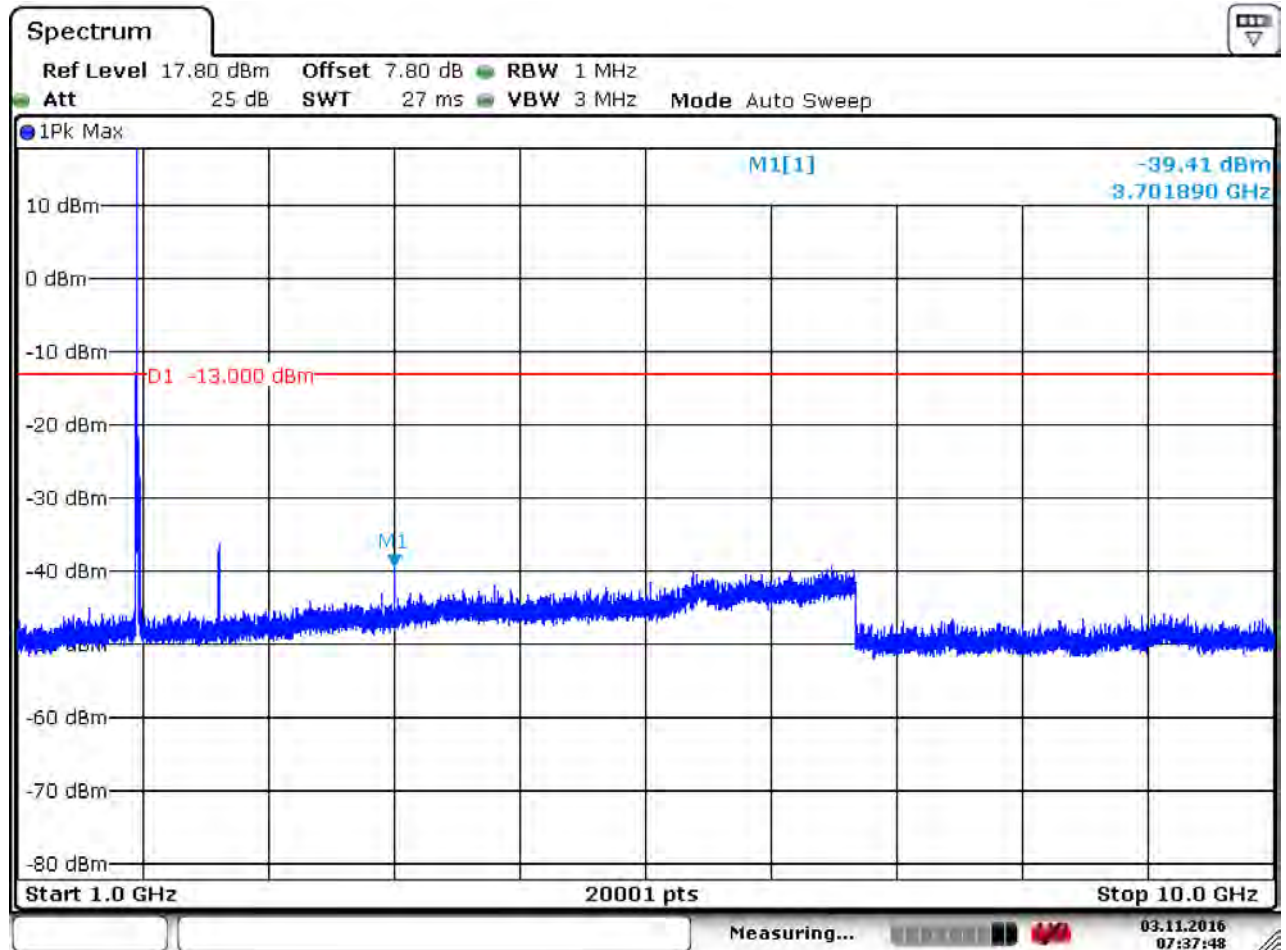
6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.5.1 Test Channel = LCH

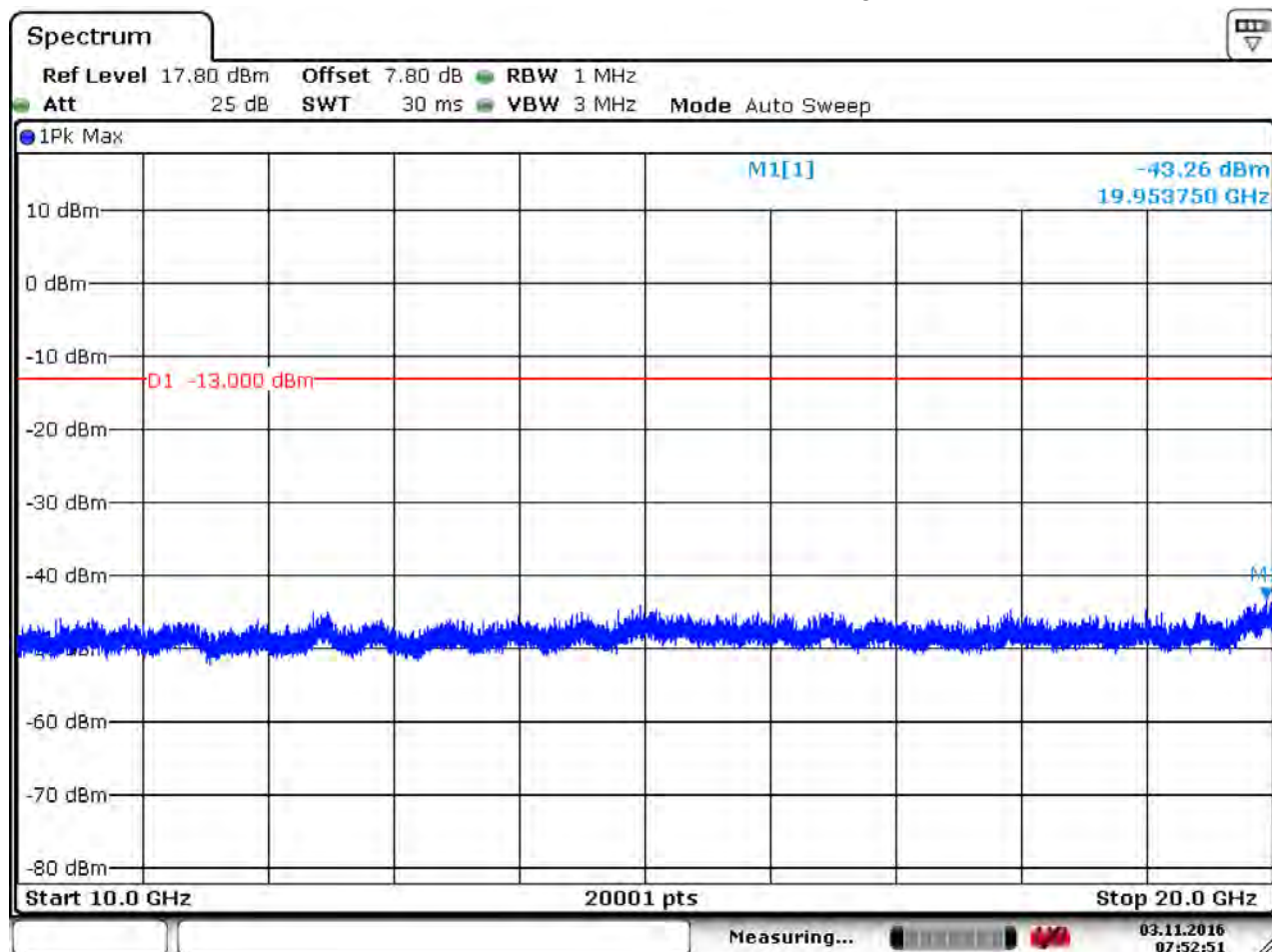


Date: 3.NOV.2016 07:27:43

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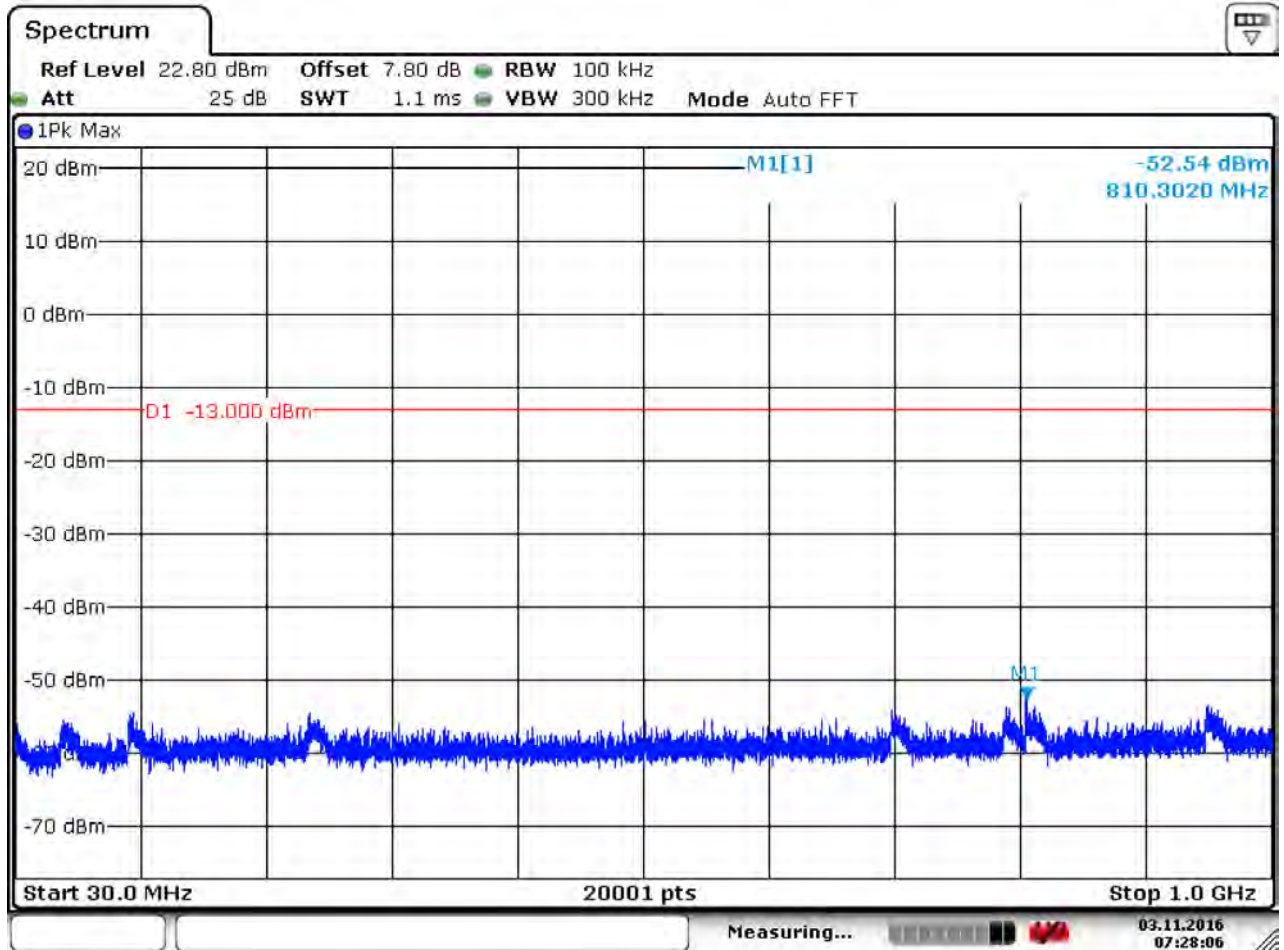
Date: 3.NOV.2016 07:37:48



Date: 3.NOV.2016 07:52:51



6.1.1.5.2 Test Channel = MCH



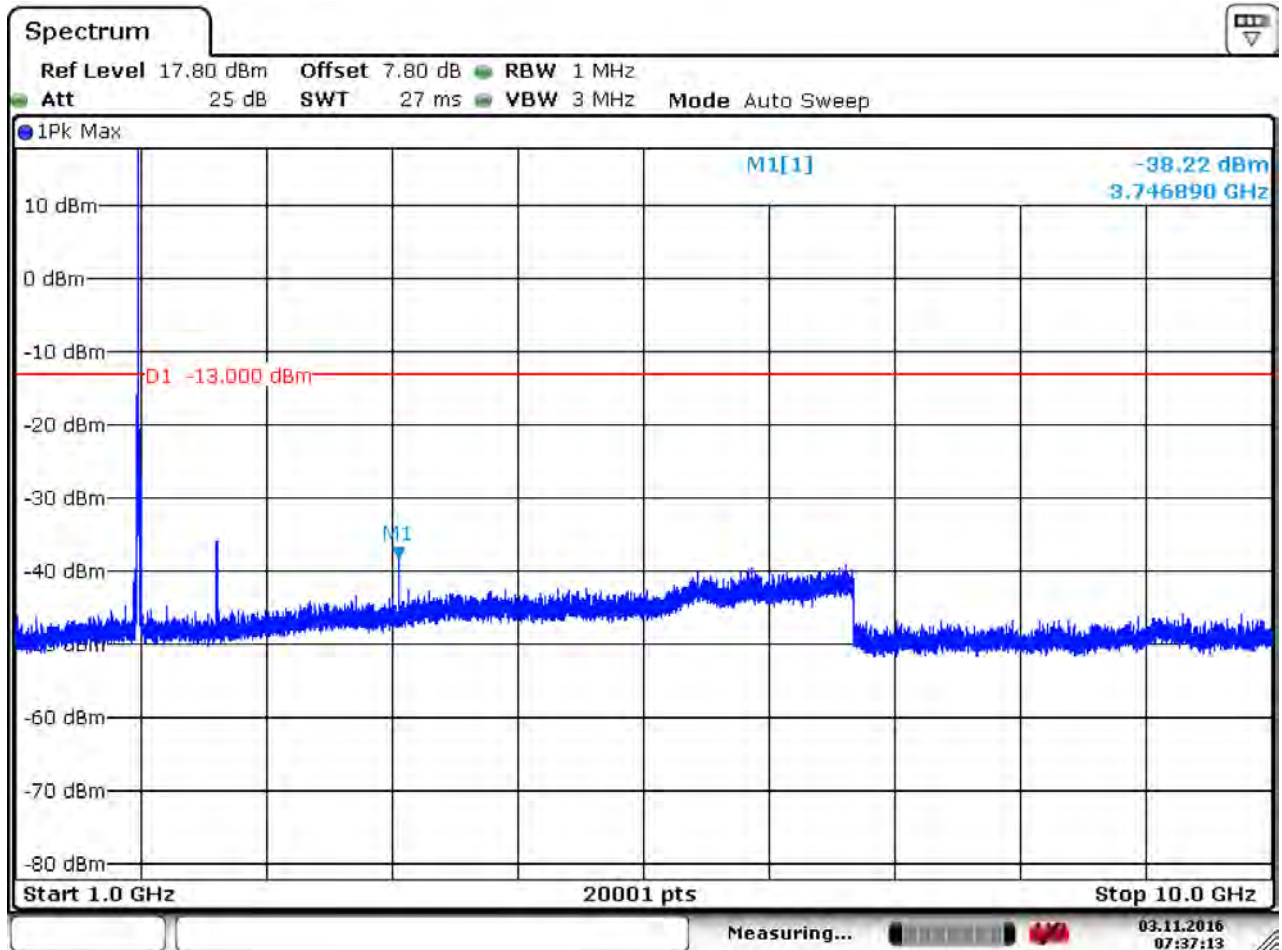
Date: 3.NOV.2016 07:28:06



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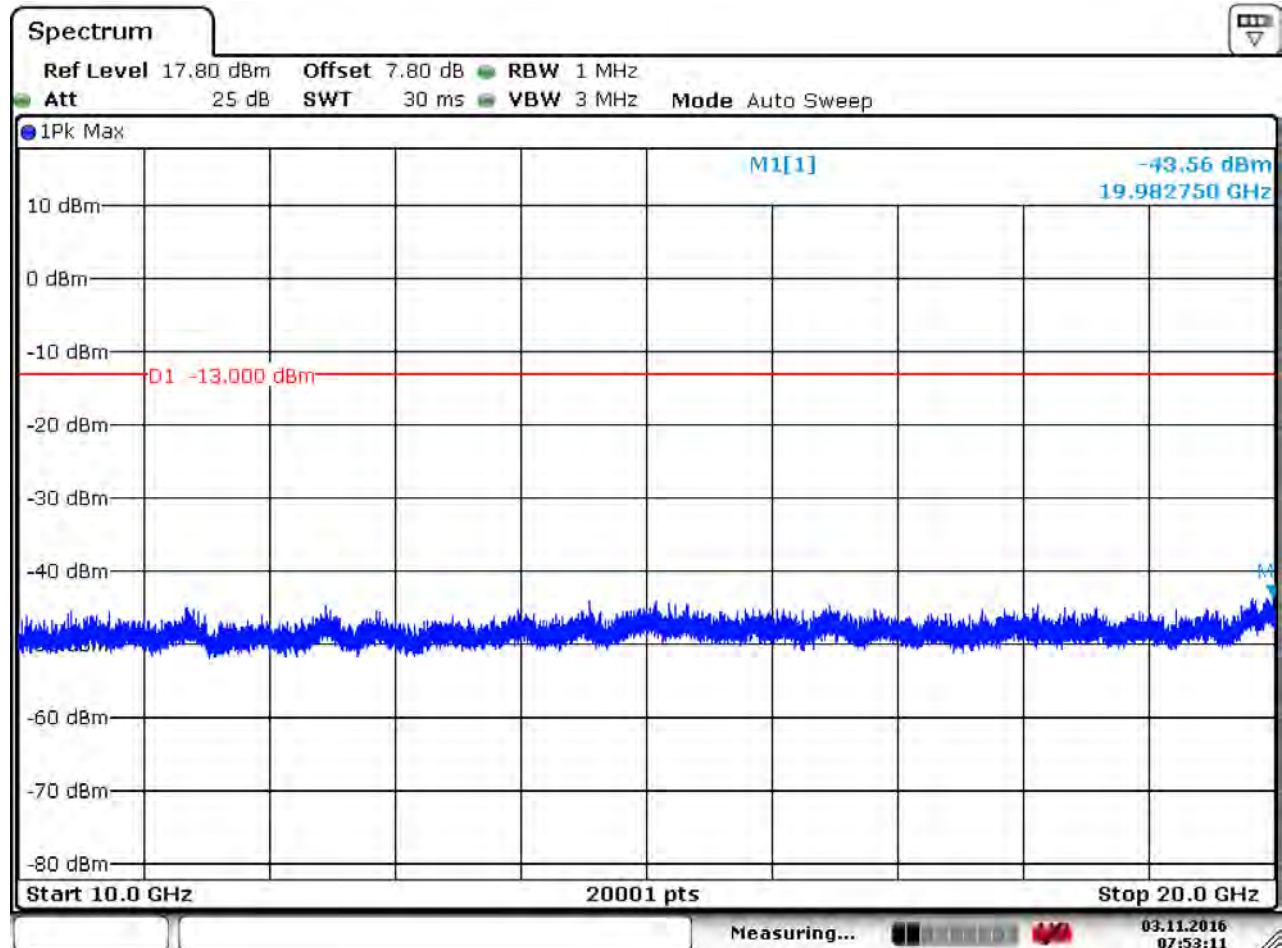
Report No.: SZEM161000852202

Page: 218 of 238



Date: 3.NOV.2016 07:37:13

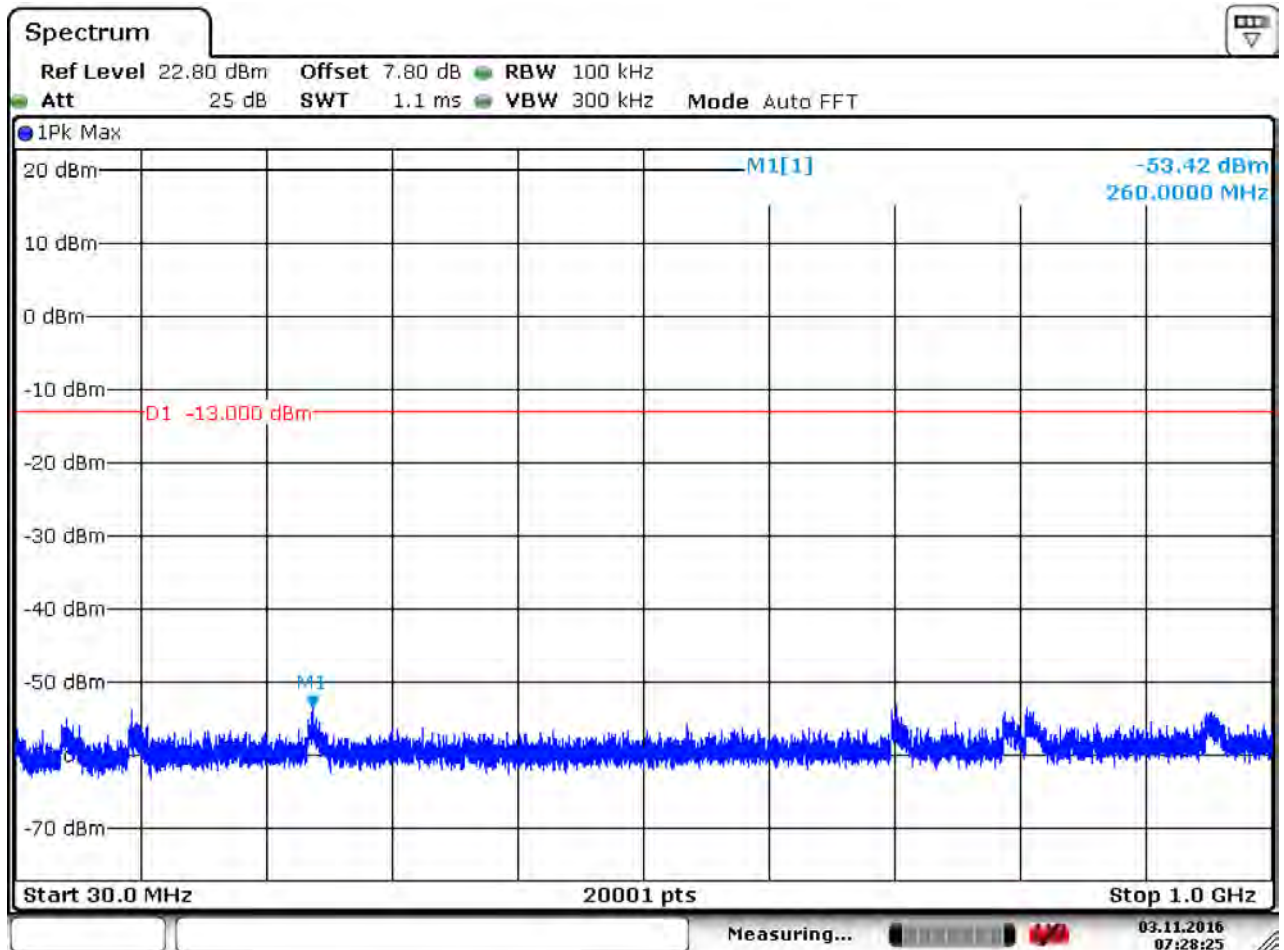
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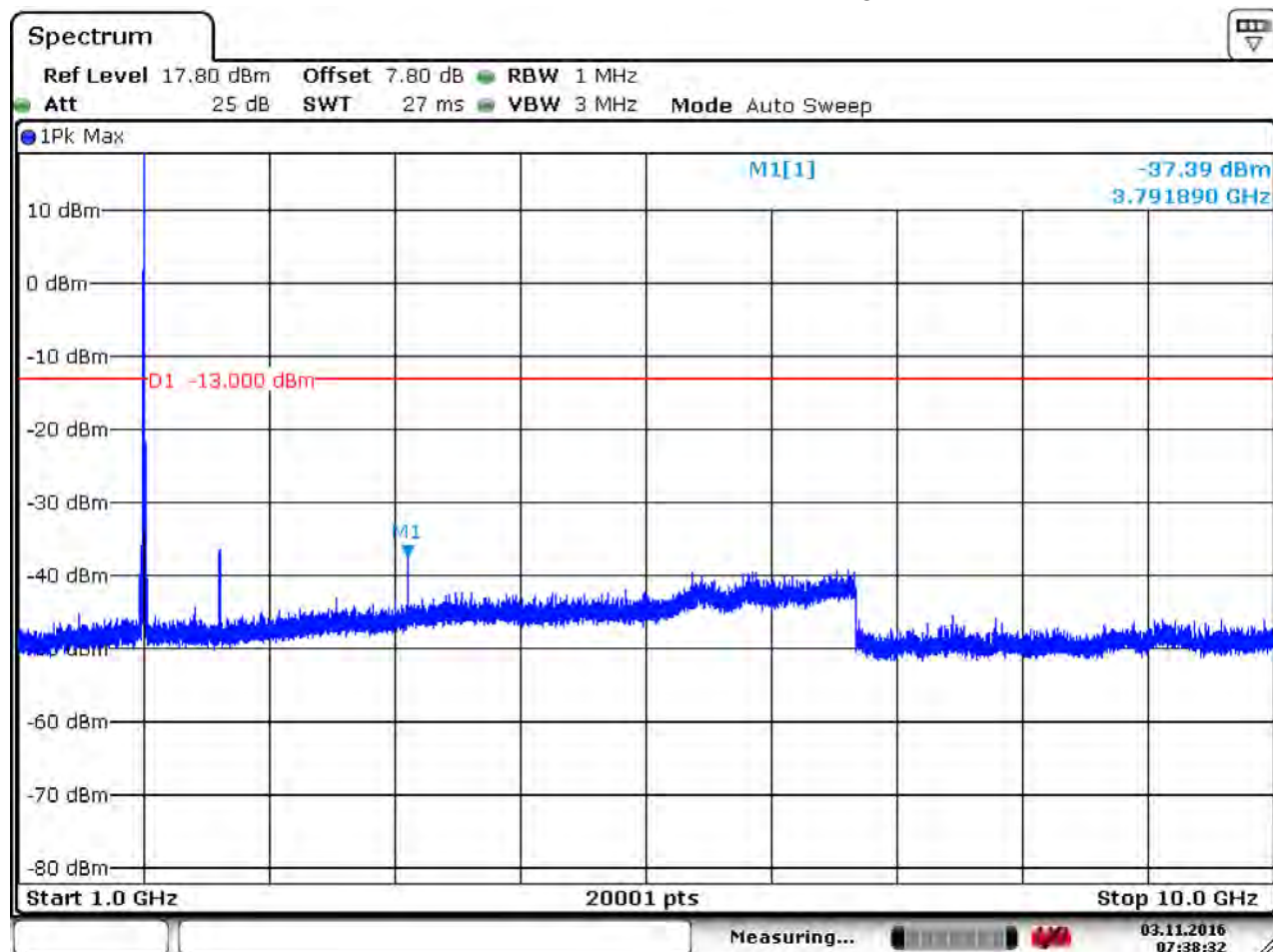
Date: 3.NOV.2016 07:53:11



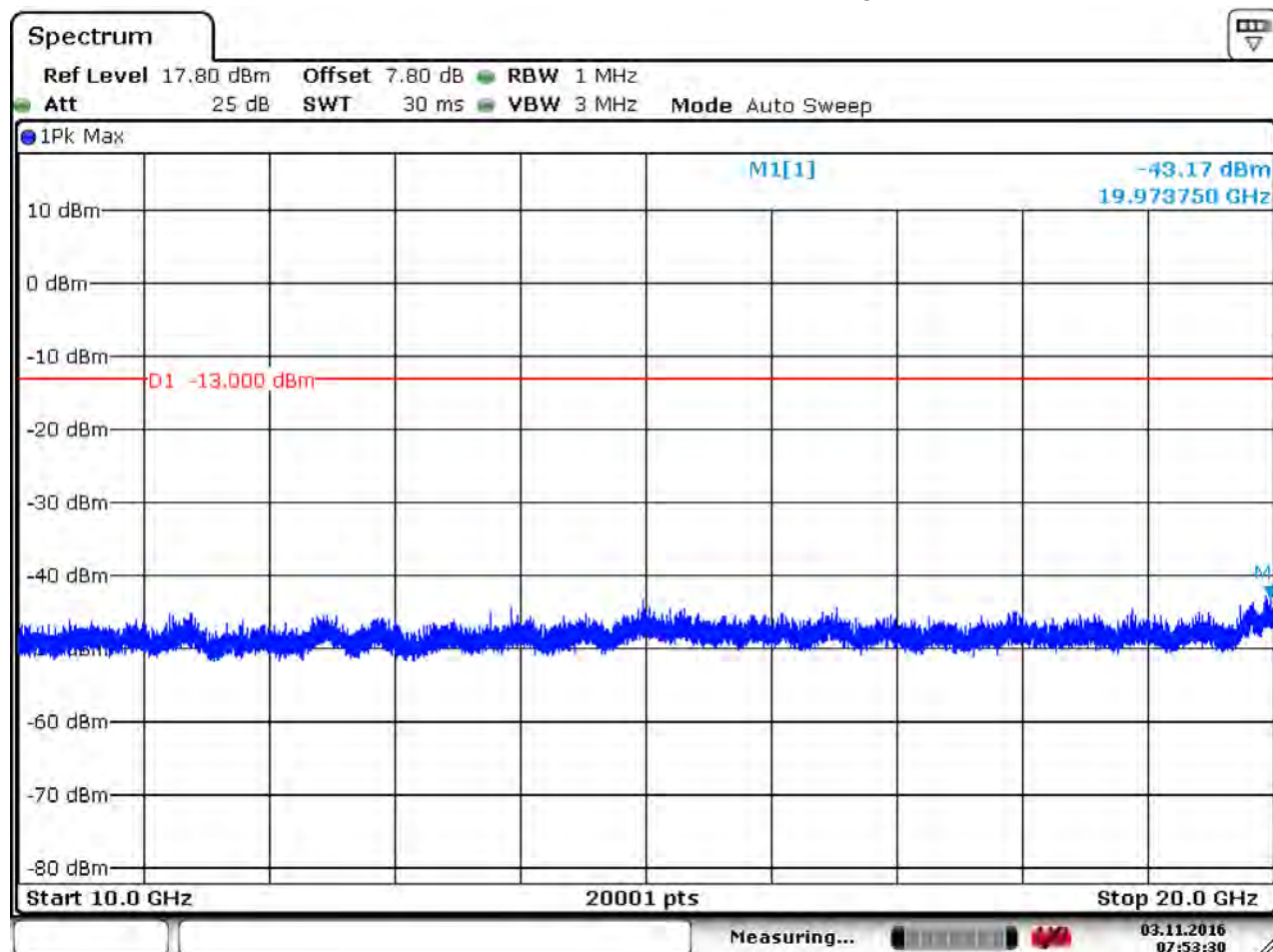
6.1.1.5.3 Test Channel = HCH



Date: 3.NOV.2016 07:28:26



Date: 3.NOV.2016 07:38:32



Date: 3.NOV.2016 07:53:30



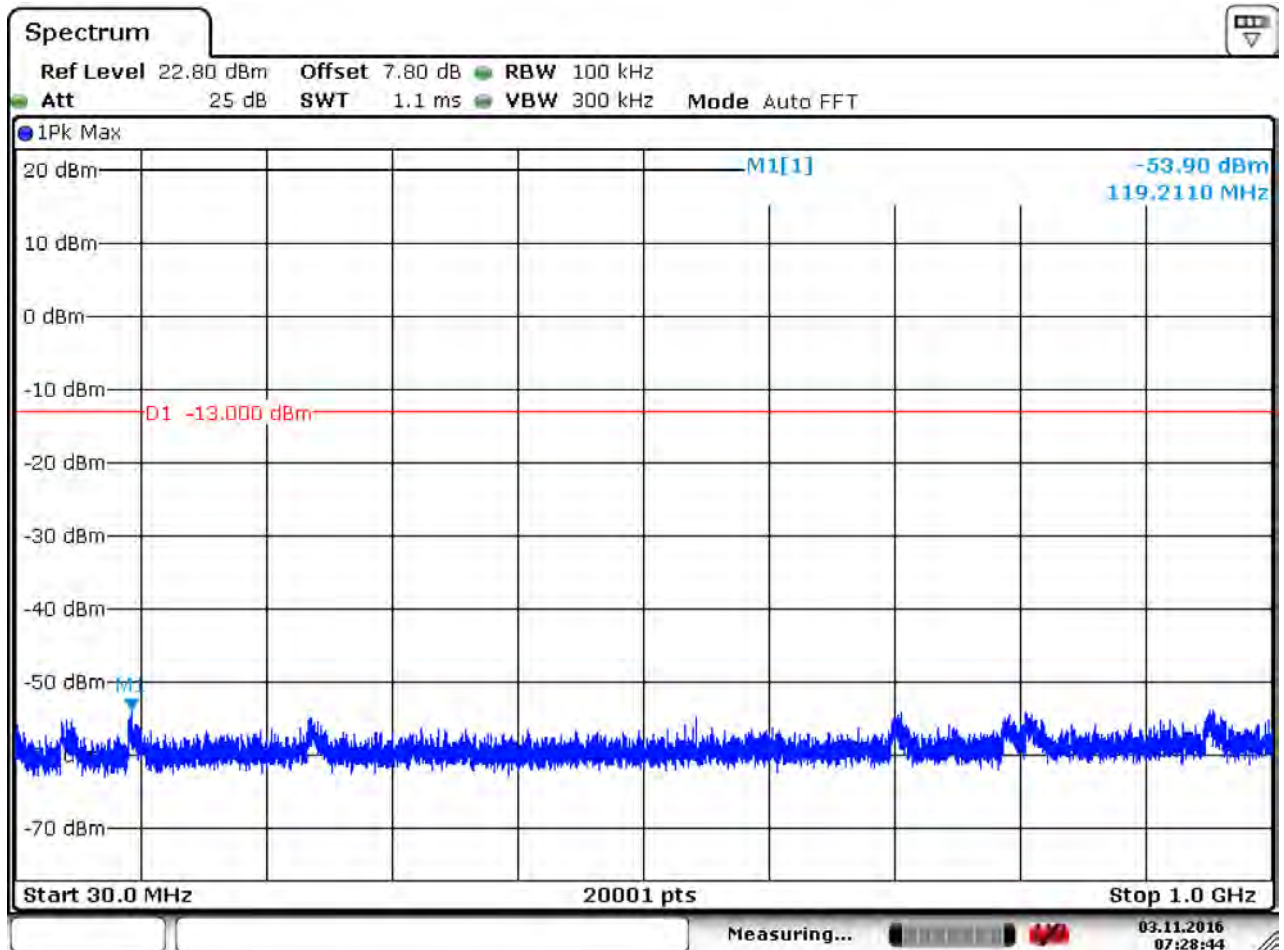
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 223 of 238

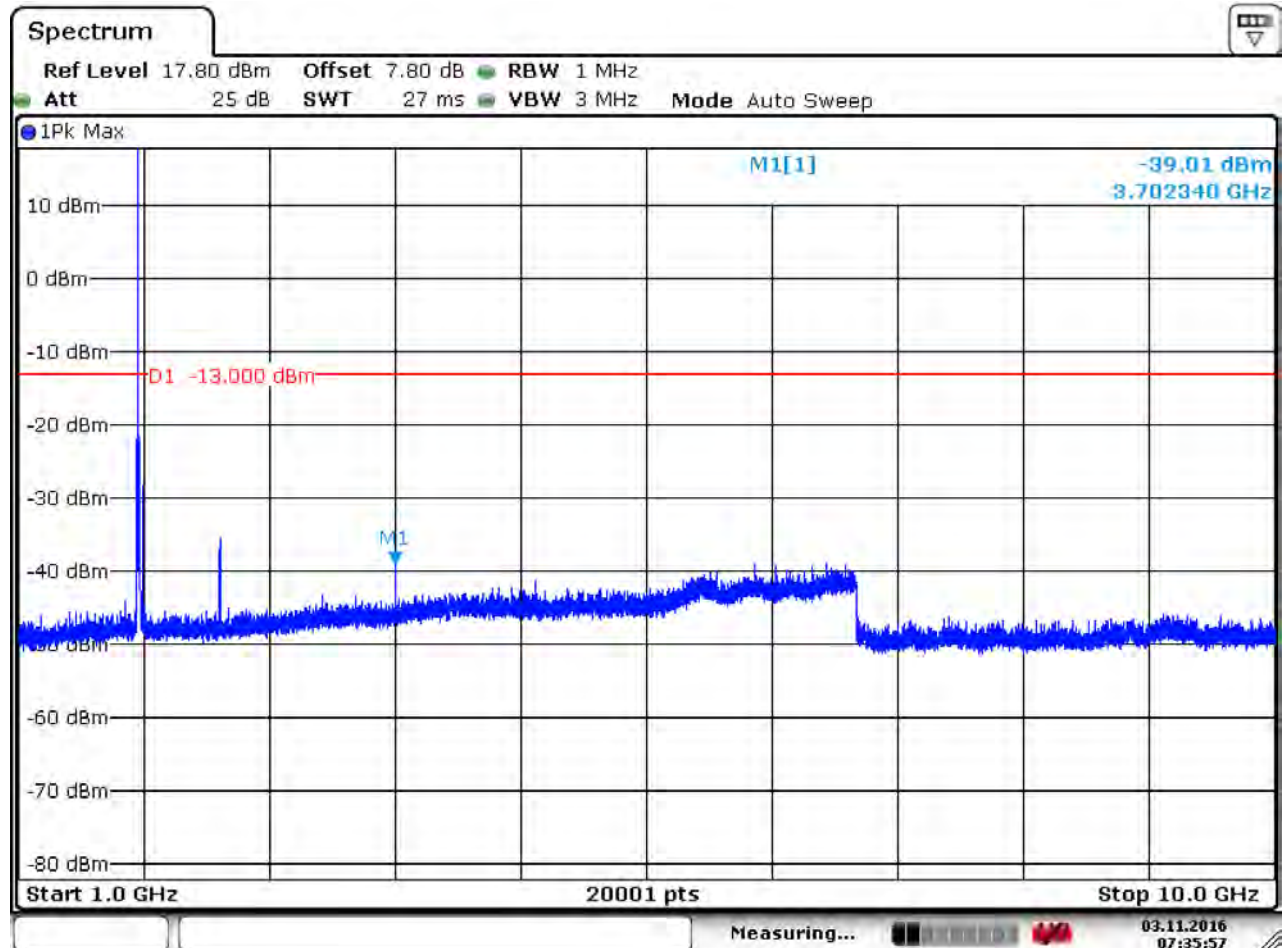
6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.6.1 Test Channel = LCH



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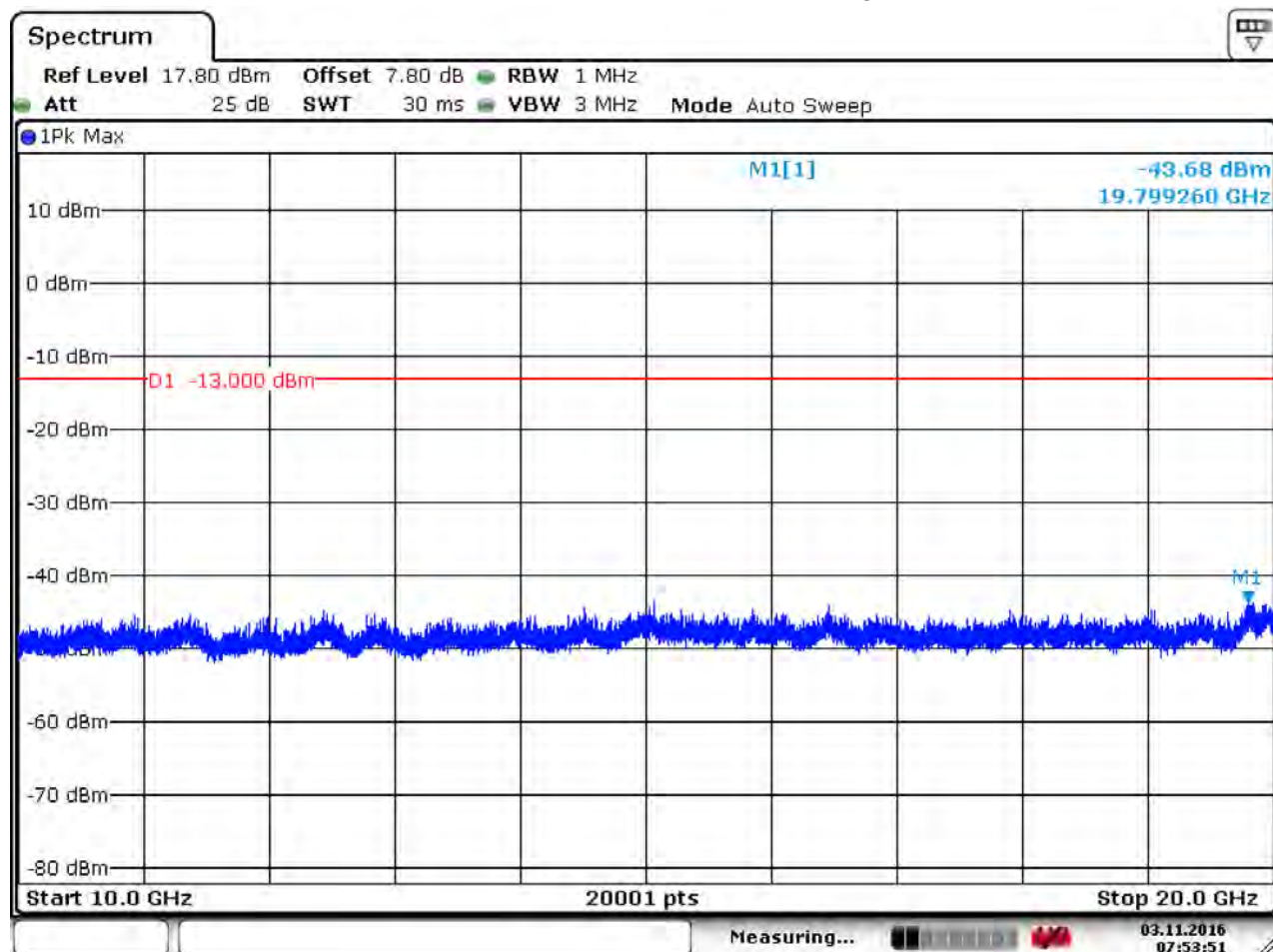


Date: 3.NOV.2016 07:35:58



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Shenzhen Branch

Report No.: SZEM161000852202
Page: 225 of 238



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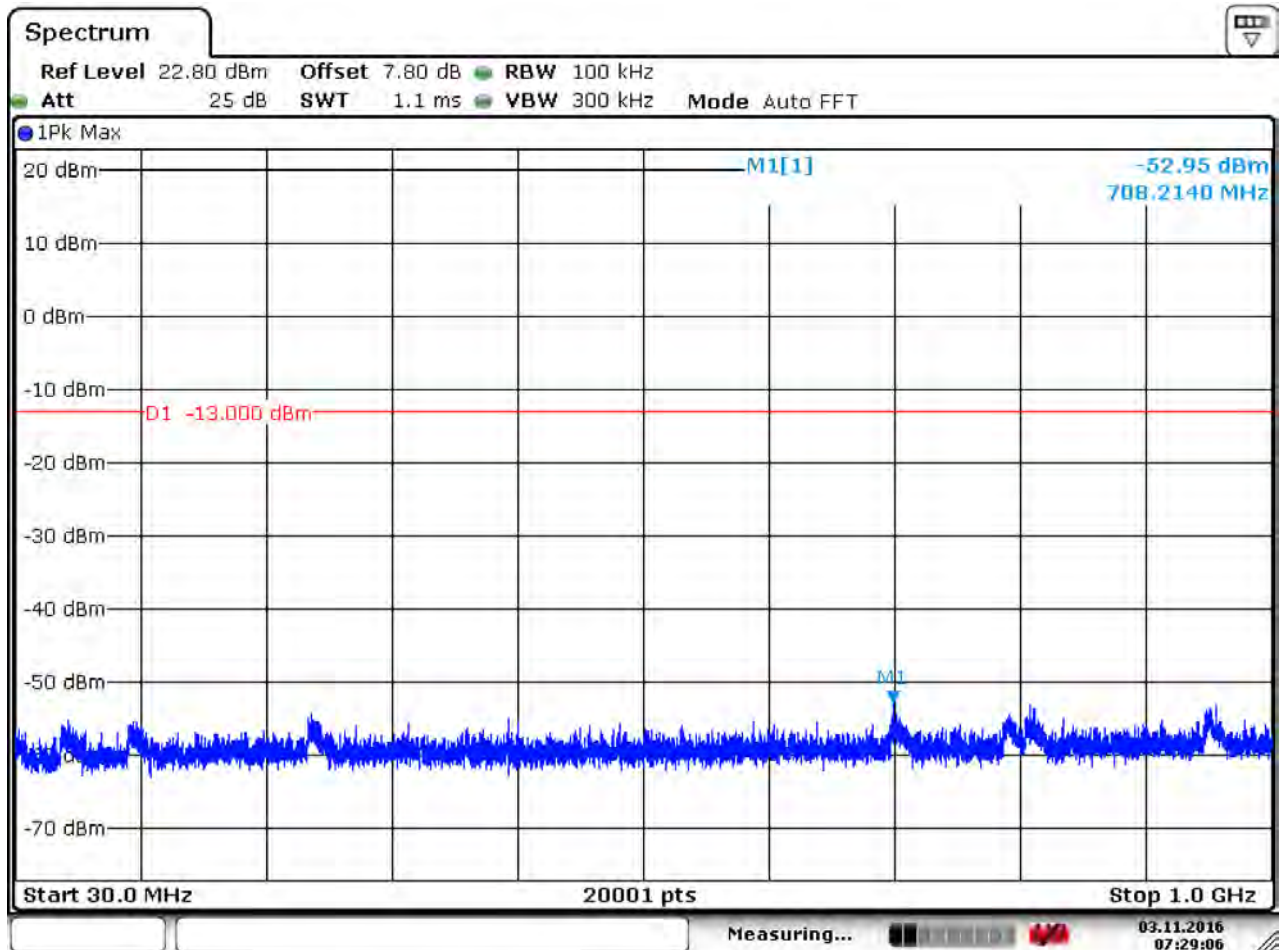


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 226 of 238

6.1.1.6.2 Test Channel = MCH



Date: 3.NOV.2016 07:29:06

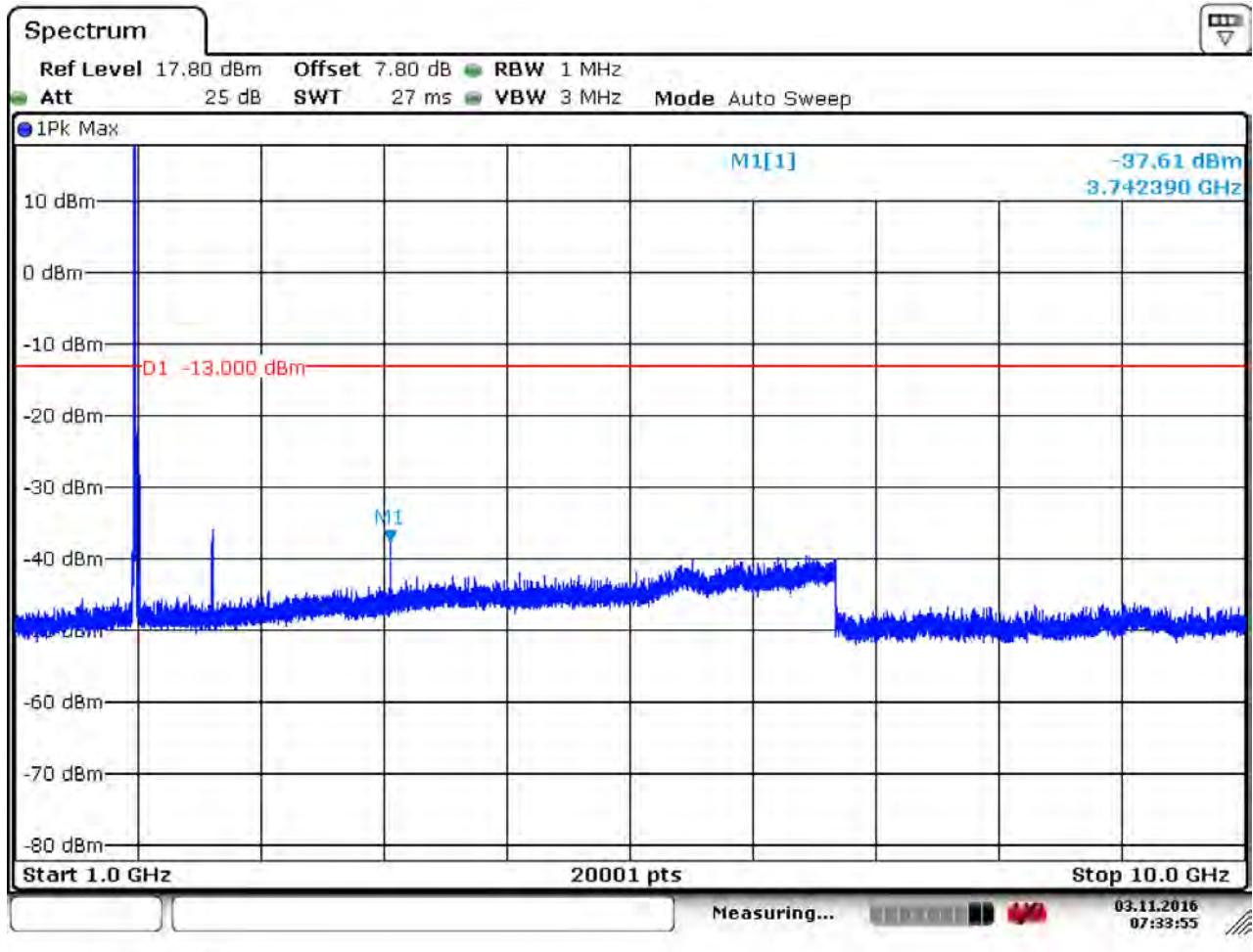
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 227 of 238



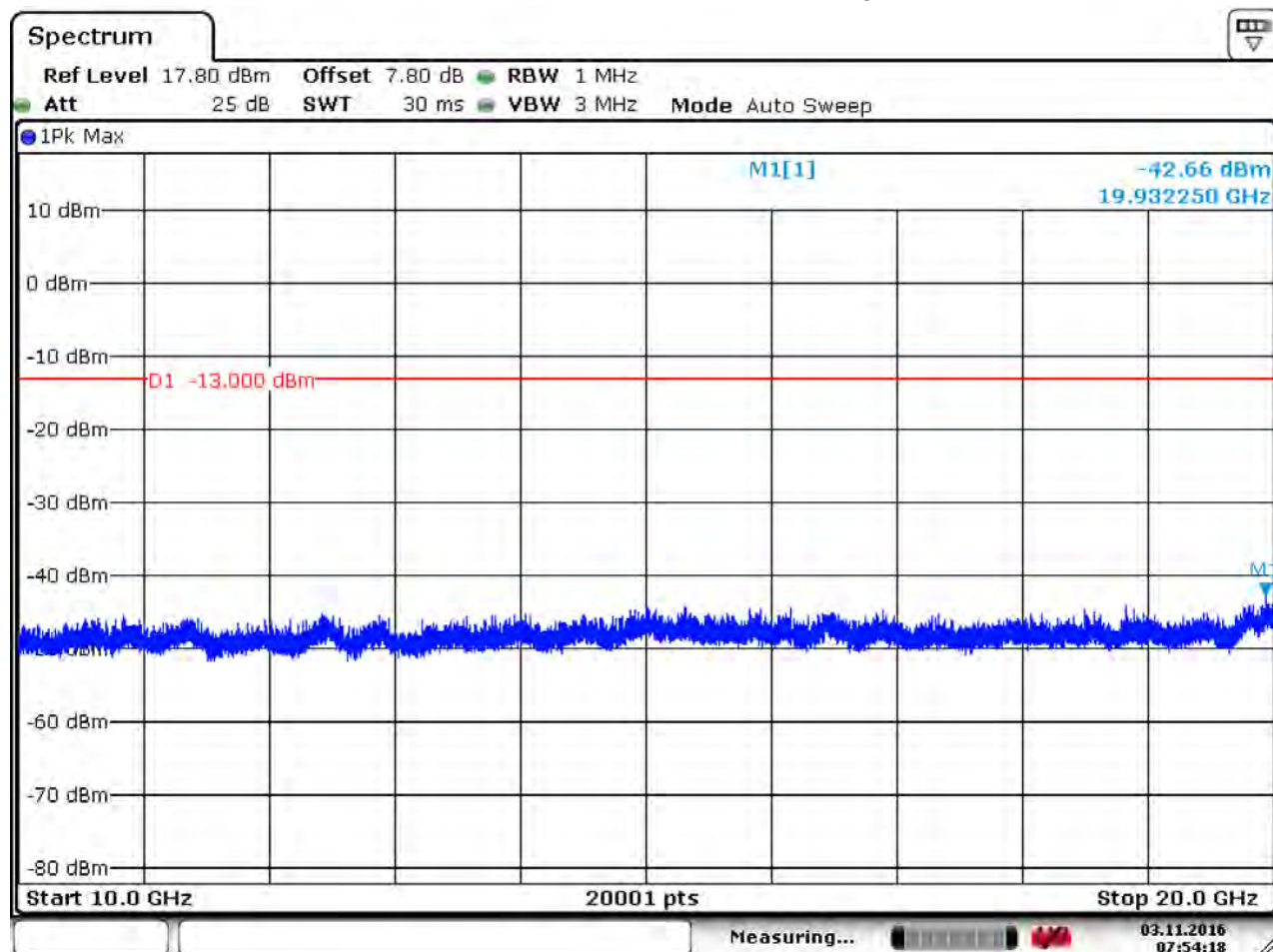
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Shenzhen Branch

Report No.: SZEM161000852202
Page: 228 of 238

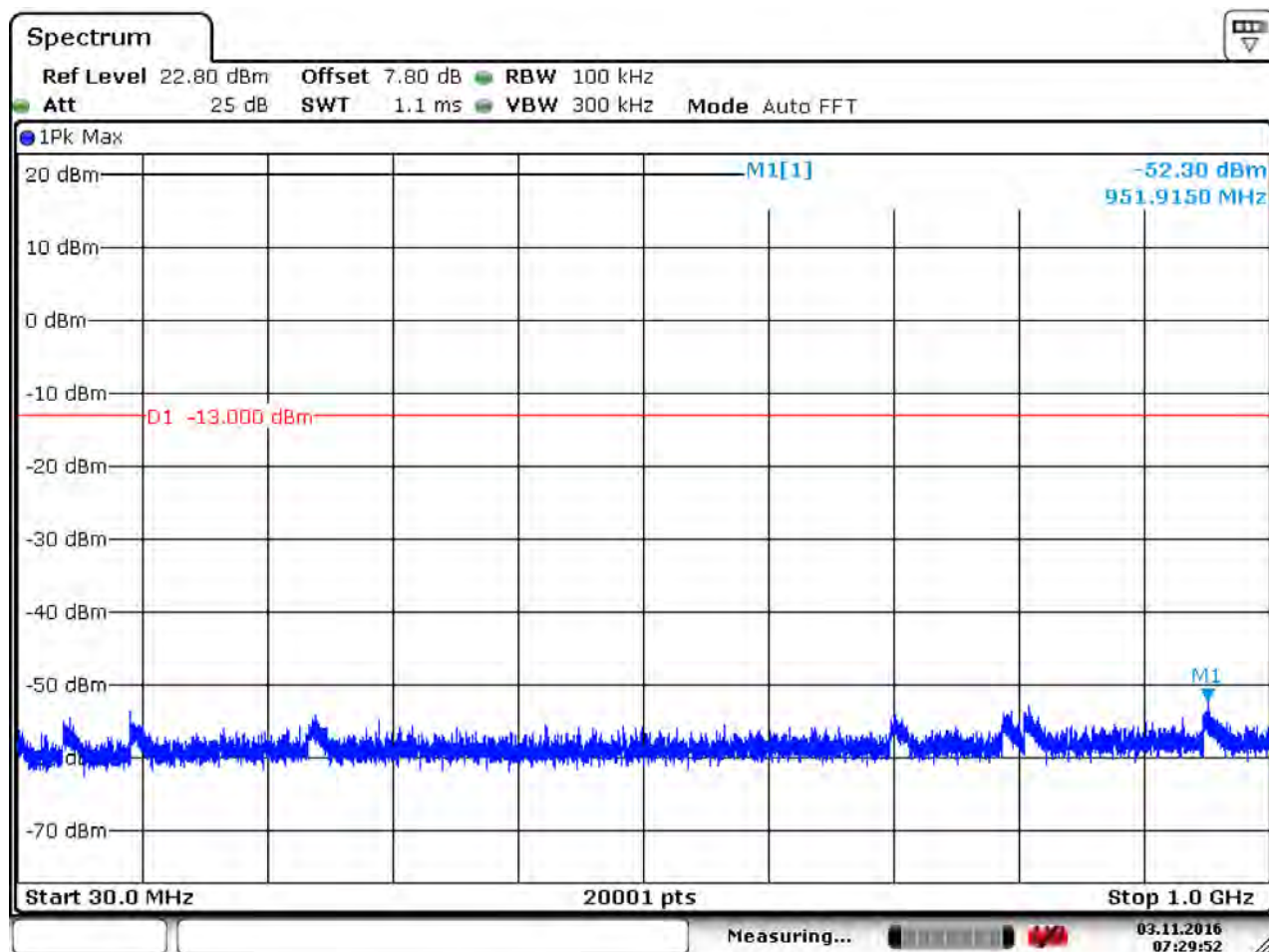


Date: 3.NOV.2016 07:54:18

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6.1.1.6.3 Test Channel = HCH



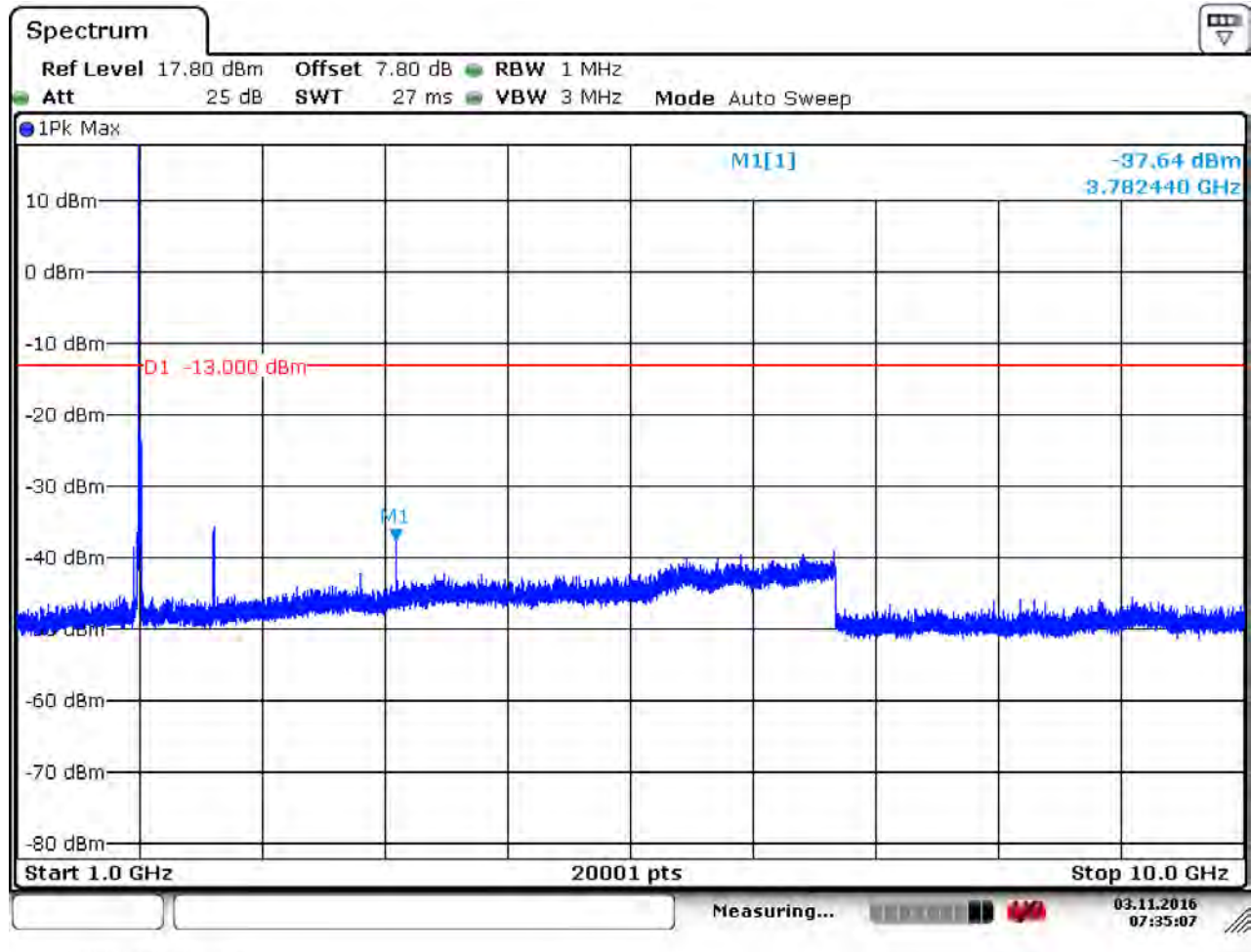
Date: 3.NOV.2016 07:29:53



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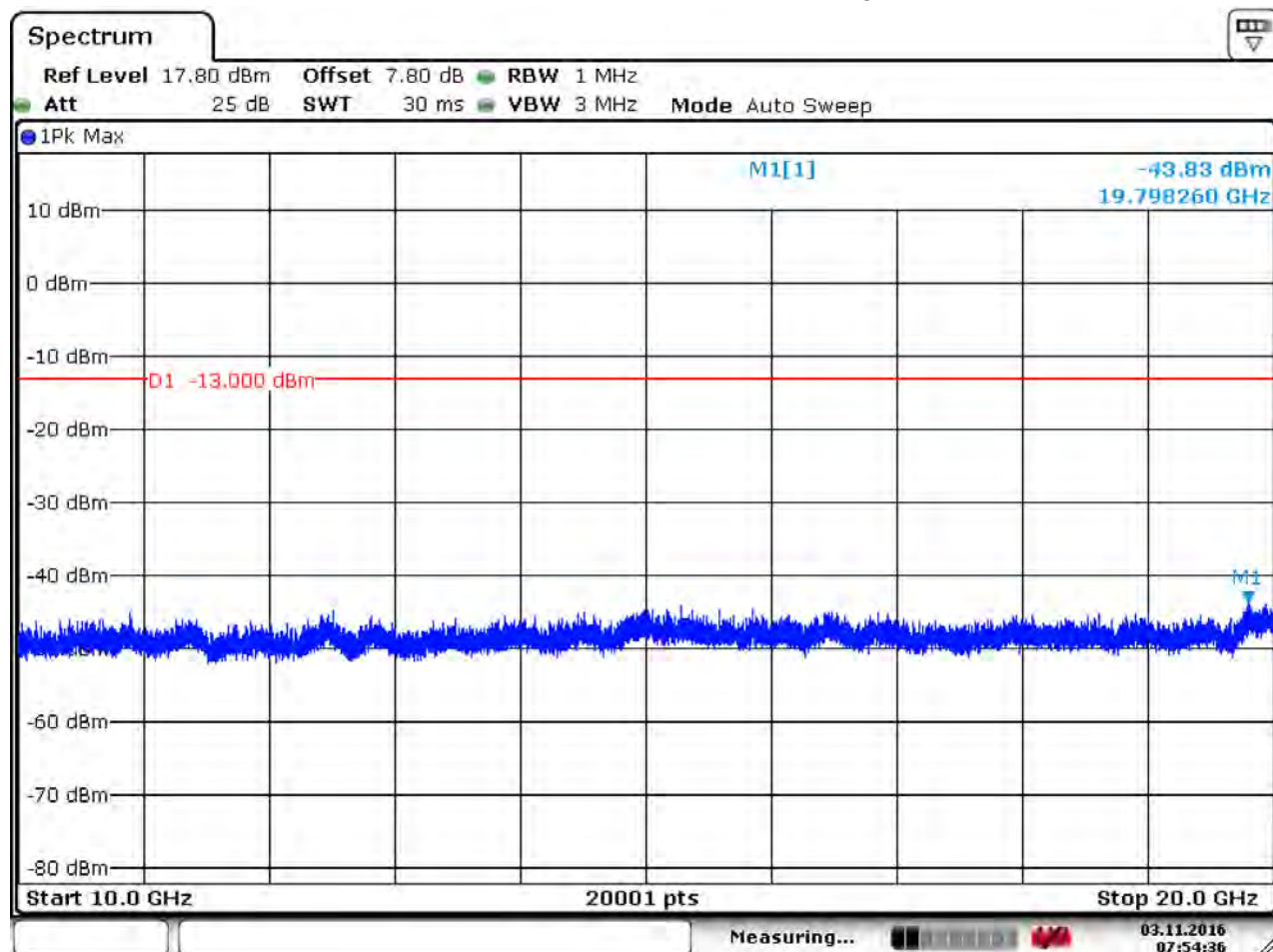
Report No.: SZEM161000852202

Page: 230 of 238



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

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
76.200	-91.56	-13.00	-78.56	Vertical
147.600	-89.54	-13.00	-76.54	Vertical
234.500	-93.00	-13.00	-80.00	Vertical
353.400	-87.75	-13.00	-74.75	Vertical
620.500	-62.64	-13.00	-49.64	Vertical
791.000	-81.54	-13.00	-68.54	Vertical
1254.000	-49.60	-13.00	-36.60	Vertical
3475.000	-67.62	-13.00	-54.62	Vertical
6022.500	-49.63	-13.00	-36.63	Vertical
6510.000	-65.56	-13.00	-52.56	Vertical
8478.000	-64.36	-13.00	-51.36	Vertical
10117.500	-64.71	-13.00	-51.71	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.25	-13.00	-79.25	Horizontal
210.600	-92.63	-13.00	-79.63	Horizontal
337.000	-90.14	-13.00	-77.14	Horizontal
469.500	-87.43	-13.00	-74.43	Horizontal
632.500	-84.33	-13.00	-71.33	Horizontal
780.000	-59.43	-13.00	-46.43	Horizontal
1573.000	-49.06	-13.00	-36.06	Horizontal
4644.500	-67.46	-13.00	-54.46	Horizontal
5340.000	-50.70	-13.00	-37.70	Horizontal
7875.000	-64.22	-13.00	-51.22	Horizontal
10357.500	-63.93	-13.00	-50.93	Horizontal
11232.500	-64.06	-13.00	-51.06	Horizontal



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Shenzhen Branch

Report No.: SZEM161000852202

Page: 233 of 238

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.42	-13.00	-79.42	Vertical
186.600	-88.63	-13.00	-75.63	Vertical
282.000	-89.13	-13.00	-76.13	Vertical
416.400	-88.09	-13.00	-75.09	Vertical
555.500	-86.13	-13.00	-73.13	Vertical
780.000	-81.43	-13.00	-68.43	Vertical
1496.000	-49.59	-13.00	-36.59	Vertical
1804.000	-46.62	-13.00	-33.62	Vertical
3487.500	-52.54	-13.00	-39.54	Vertical
5790.000	-65.12	-13.00	-52.12	Vertical
9235.000	-64.33	-13.00	-51.33	Vertical
11872.500	-63.44	-13.00	-50.44	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000	-88.99	-13.00	-75.99	Horizontal
152.600	-91.44	-13.00	-78.44	Horizontal
277.800	-89.43	-13.00	-76.43	Horizontal
441.600	-87.41	-13.00	-74.41	Horizontal
620.500	-84.56	-13.00	-71.56	Horizontal
1386.000	-50.54	-13.00	-37.54	Horizontal
1683.000	-47.85	-13.00	-34.85	Horizontal
2156.000	-40.53	-13.00	-27.53	Horizontal
4317.500	-65.48	-13.00	-52.48	Horizontal
7972.500	-64.27	-13.00	-51.27	Horizontal
9733.500	-64.54	-13.00	-51.54	Horizontal
10672.500	-63.55	-13.00	-50.55	Horizontal

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM161000852202

Page: 234 of 238

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.35	-13.00	-79.35	Vertical
183.200	-92.71	-13.00	-79.71	Vertical
286.200	-89.49	-13.00	-76.49	Vertical
474.000	-87.25	-13.00	-74.25	Vertical
664.500	-86.14	-13.00	-73.14	Vertical
846.000	-82.07	-13.00	-69.07	Vertical
1749.000	-47.09	-13.00	-34.09	Vertical
2408.000	-42.20	-13.00	-29.20	Vertical
5730.000	-50.61	-13.00	-37.61	Vertical
7875.000	-64.12	-13.00	-51.12	Vertical
9726.500	-64.42	-13.00	-51.42	Vertical
11677.500	-63.94	-13.00	-50.94	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.200	-92.10	-13.00	-79.10	Horizontal
147.600	-90.37	-13.00	-77.37	Horizontal
282.000	-89.57	-13.00	-76.57	Horizontal
445.800	-87.26	-13.00	-74.26	Horizontal
645.000	-84.78	-13.00	-71.78	Horizontal
791.000	-81.98	-13.00	-68.98	Horizontal
1144.000	-50.64	-13.00	-37.64	Horizontal
2336.000	-42.28	-13.00	-29.28	Horizontal
2768.000	-40.40	-13.00	-27.40	Horizontal
4777.500	-63.42	-13.00	-50.42	Horizontal
7240.000	-64.04	-13.00	-51.04	Horizontal
10677.500	-64.25	-13.00	-51.25	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 2	LTE/TM1 20MHz	LCH	TN	VL	-4.03	-0.00217	PASS
				VN	0.46	0.00025	PASS
				VH	-7.73	-0.00416	PASS
		MCH	TN	VL	1.49	0.00079	PASS
				VN	-2.84	-0.00151	PASS
				VH	2.63	0.00140	PASS
		HCH	TN	VL	-6.56	-0.00345	PASS
				VN	-5.17	-0.00272	PASS
				VH	-0.79	-0.00042	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.28	-0.00230	PASS
				VN	-2.95	-0.00159	PASS
				VH	-5.16	-0.00277	PASS
		MCH	TN	VL	1.56	0.00083	PASS
				VN	-2.80	-0.00149	PASS
				VH	2.59	0.00138	PASS
		HCH	TN	VL	-3.08	-0.00162	PASS
				VN	-8.00	-0.00421	PASS
				VH	0.44	0.00023	PASS
	LTE/TM3 20MHz	LCH	TN	VL	2.09	0.00112	PASS
				VN	-0.32	-0.00017	PASS
				VH	4.38	0.00235	PASS
		MCH	TN	VL	-2.83	-0.00151	PASS
				VN	0.43	0.00023	PASS
				VH	-3.54	-0.00188	PASS
		HCH	TN	VL	3.23	0.00170	PASS
				VN	1.45	0.00076	PASS
				VH	-2.05	-0.00108	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
LTEband 2	LTE/TM1 20MHz	LCH	VN	-30	-0.40	-0.00022	PASS
				-20	-1.34	-0.00072	PASS
				-10	2.38	0.00128	PASS
				0	1.75	0.00094	PASS
				10	1.65	0.00089	PASS
				20	0.11	0.00006	PASS
				30	-0.31	-0.00017	PASS
				40	-0.14	-0.00008	PASS
				50	0.59	0.00032	PASS
		MCH	VN	-30	-7.80	-0.00415	PASS
				-20	-5.95	-0.00316	PASS
				-10	-7.49	-0.00398	PASS
				0	-5.62	-0.00299	PASS
				10	-4.04	-0.00215	PASS
				20	-9.94	-0.00529	PASS
				30	-5.66	-0.00301	PASS
				40	-4.62	-0.00246	PASS
				50	-6.92	-0.00368	PASS
		HCH	VN	-30	0.54	0.00028	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-2.83	-0.00149	PASS
				10	2.60	0.00137	PASS
				20	-0.57	-0.00030	PASS
				30	-2.66	-0.00140	PASS
				40	-5.43	-0.00286	PASS
				50	-8.90	-0.00468	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 237 of 238

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband 2	LTE/TM2 20MHz	LCH	VN	-30	-0.50	-0.00027	PASS
				-20	-2.45	-0.00132	PASS
				-10	3.38	0.00182	PASS
				0	2.64	0.00142	PASS
				10	1.60	0.00086	PASS
				20	-0.23	-0.00012	PASS
				30	-0.44	-0.00024	PASS
				40	5.34	0.00287	PASS
				50	0.79	0.00042	PASS
		MCH	VN	-30	-3.80	-0.00202	PASS
				-20	-5.38	-0.00286	PASS
				-10	-7.29	-0.00388	PASS
				0	-4.32	-0.00230	PASS
				10	-0.34	-0.00018	PASS
				20	1.74	0.00093	PASS
				30	-3.64	-0.00194	PASS
				40	-2.62	-0.00139	PASS
				50	-3.91	-0.00208	PASS
		HCH	VN	-30	1.34	0.00071	PASS
				-20	-2.55	-0.00134	PASS
				-10	1.59	0.00084	PASS
				0	-3.73	-0.00196	PASS
				10	2.88	0.00152	PASS
				20	-1.47	-0.00077	PASS
				30	-2.59	-0.00136	PASS
				40	-4.33	-0.00228	PASS
				50	-7.60	-0.00400	PASS

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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM161000852202

Page: 238 of 238

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband 2	LTE/TM3 20MHz	LCH	VN	-30	1.50	0.00081	PASS
				-20	-1.60	-0.00086	PASS
				-10	4.38	0.00235	PASS
				0	1.69	0.00091	PASS
				10	1.43	0.00077	PASS
				20	0.54	0.00029	PASS
				30	-2.61	-0.00140	PASS
				40	-0.69	-0.00037	PASS
				50	3.52	0.00189	PASS
		MCH	VN	-30	-7.34	-0.00390	PASS
				-20	-5.33	-0.00284	PASS
				-10	-7.23	-0.00385	PASS
				0	-5.34	-0.00284	PASS
				10	-4.04	-0.00215	PASS
				20	-6.34	-0.00337	PASS
				30	-5.26	-0.00280	PASS
				40	-4.13	-0.00220	PASS
				50	-6.47	-0.00344	PASS
		HCH	VN	-30	2.34	0.00123	PASS
				-20	-1.83	-0.00096	PASS
				-10	1.57	0.00083	PASS
				0	-2.43	-0.00128	PASS
				10	1.60	0.00084	PASS
				20	-0.57	-0.00030	PASS
				30	0.66	0.00035	PASS
				40	-5.43	-0.00286	PASS
				50	-5.90	-0.00311	PASS

The End

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