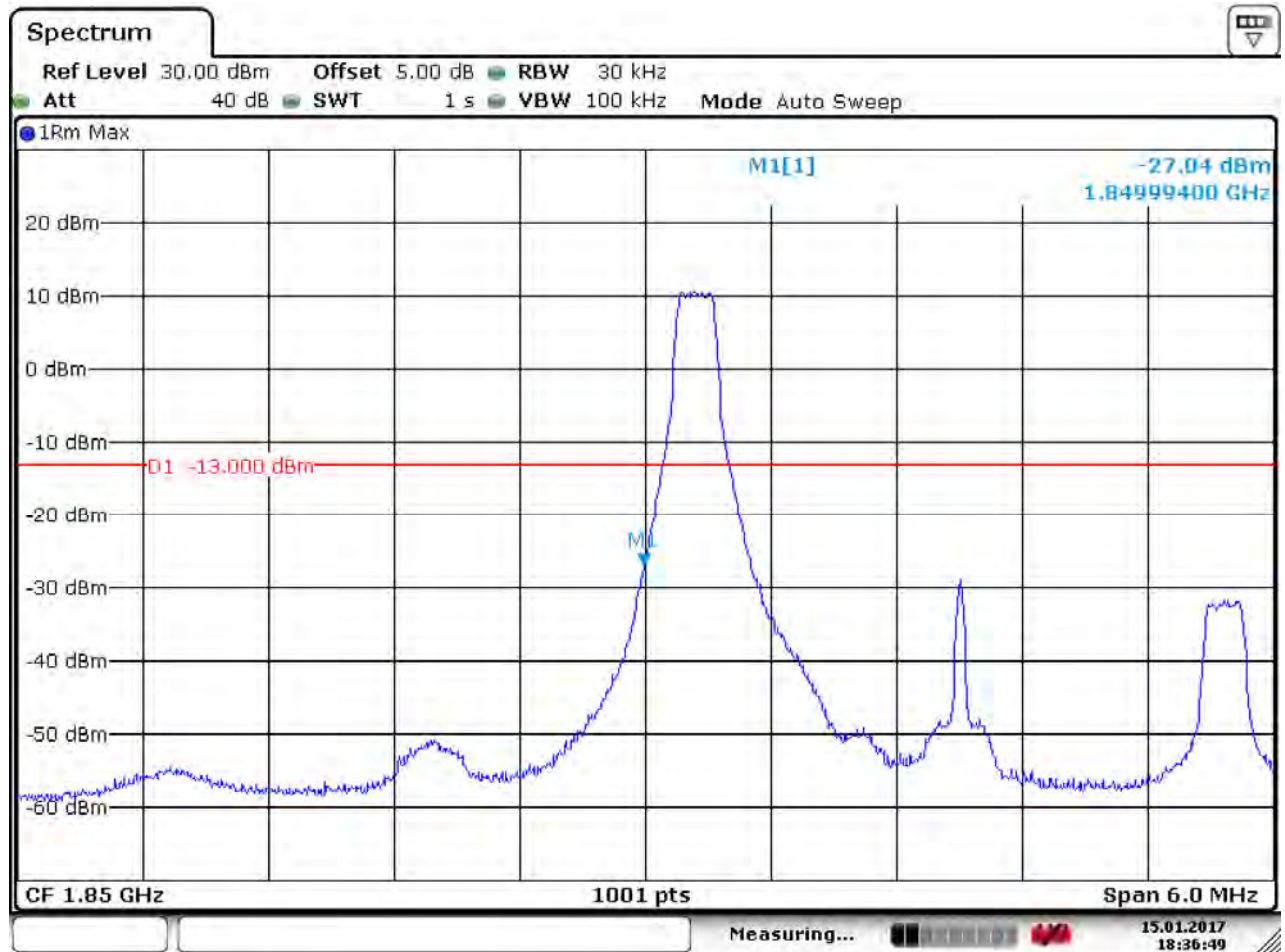




5.1.1.6.2.1 Test RB=15RB

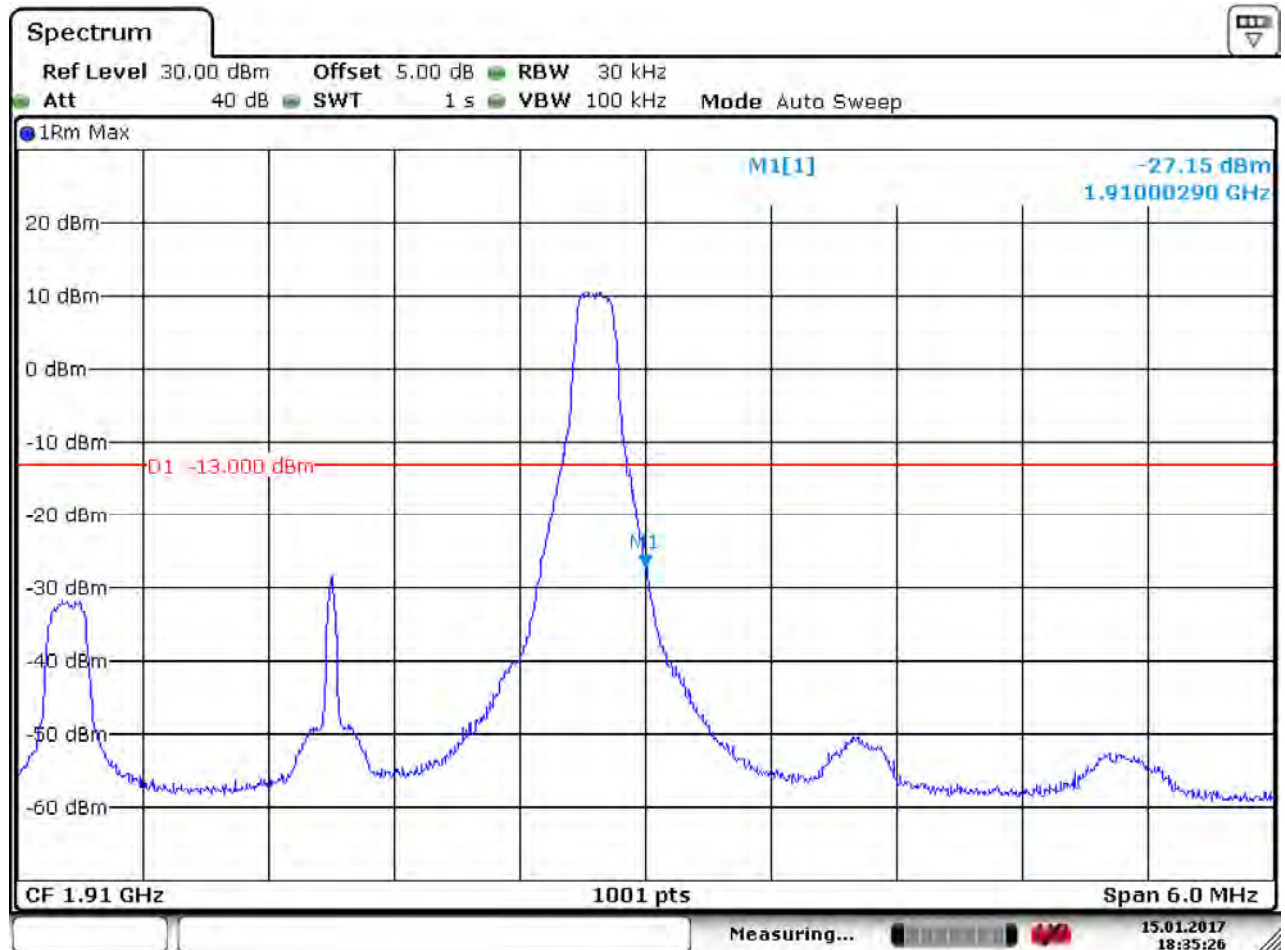


Date: 15.JAN.2017 18:36:49



5.1.1.6.3 Test Channel = HCH

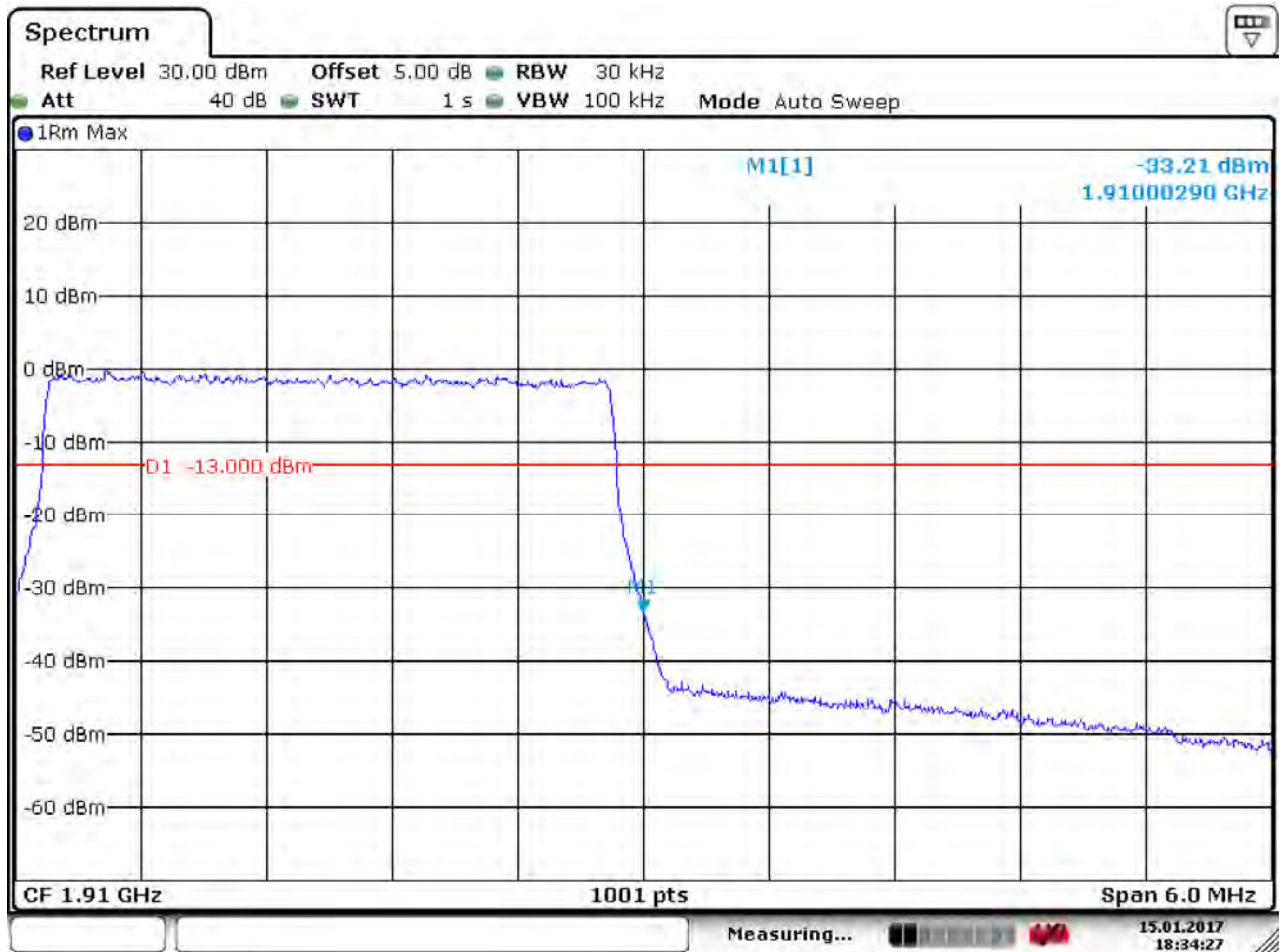
5.1.1.6.3.1 Test RB=1RB



Date: 15.JAN.2017 18:35:27



5.1.1.6.3.2 Test RB=15RB



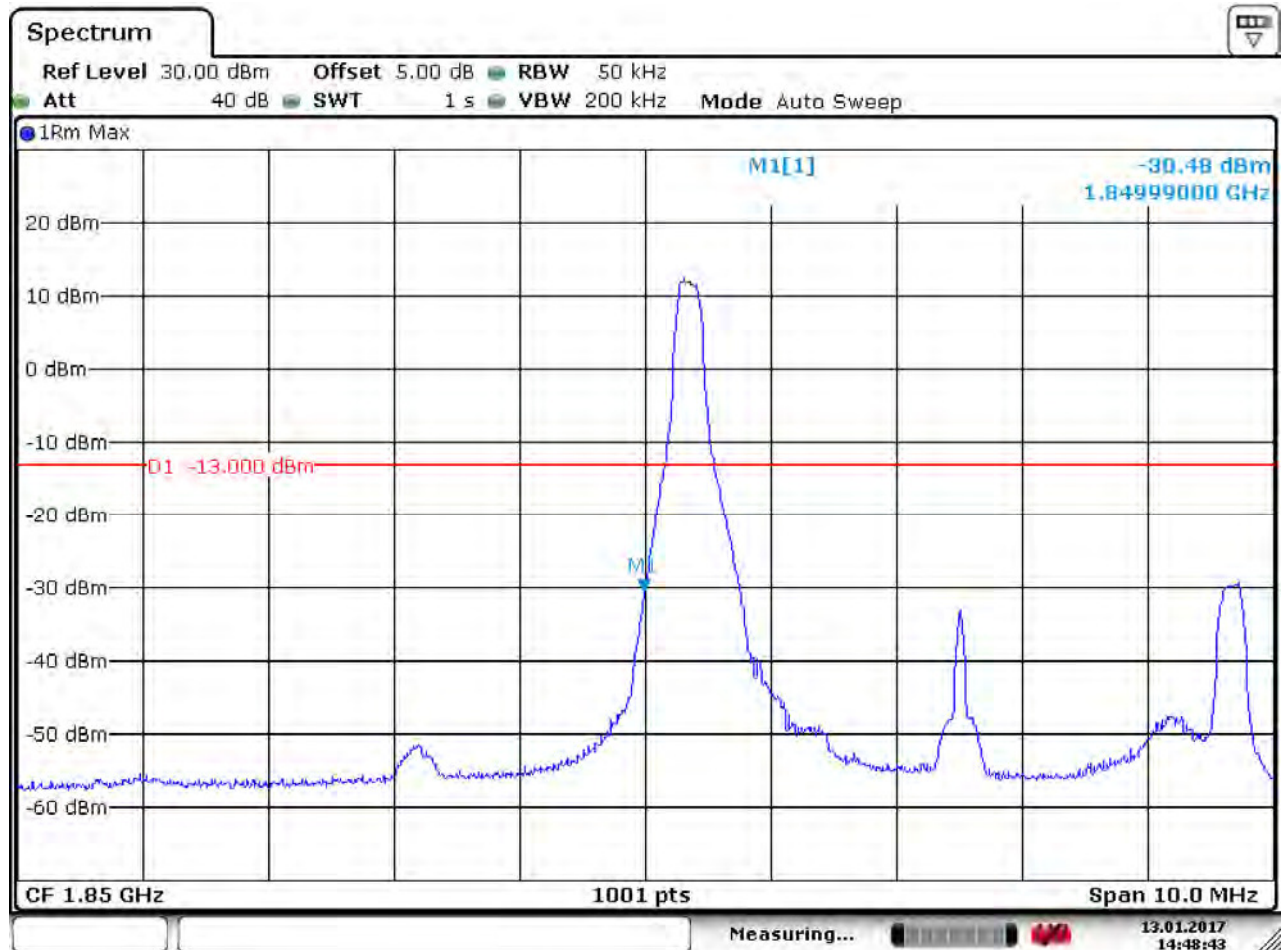
Date: 15.JAN.2017 18:34:28



5.1.1.7 Test Mode = LTE/TM1 5MHz

5.1.1.7.1 Test Channel = LCH

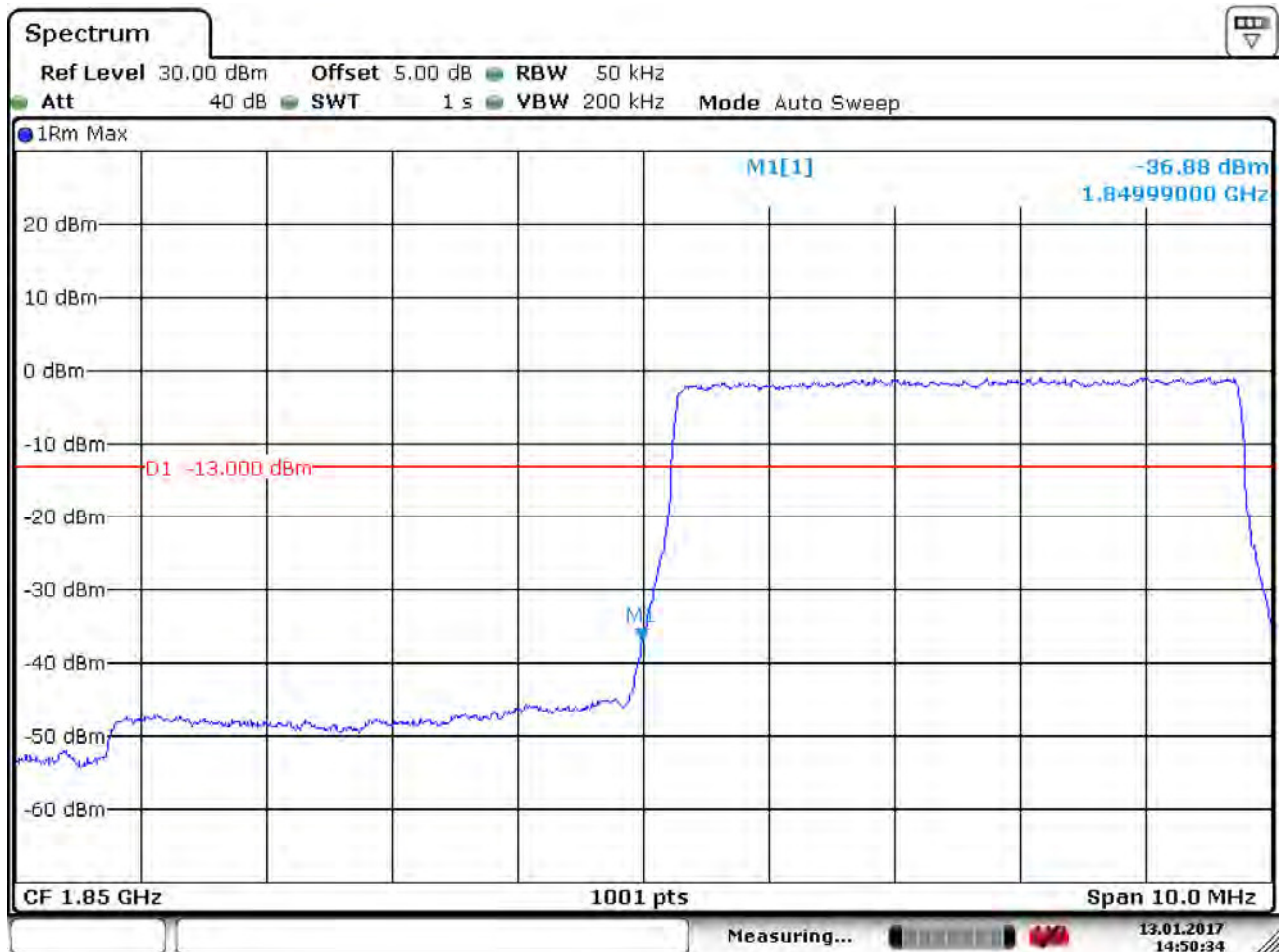
5.1.1.7.1.1 Test RB=1RB



Date: 13.JAN.2017 14:48:43



5.1.1.7.1.2 Test RB=25RB

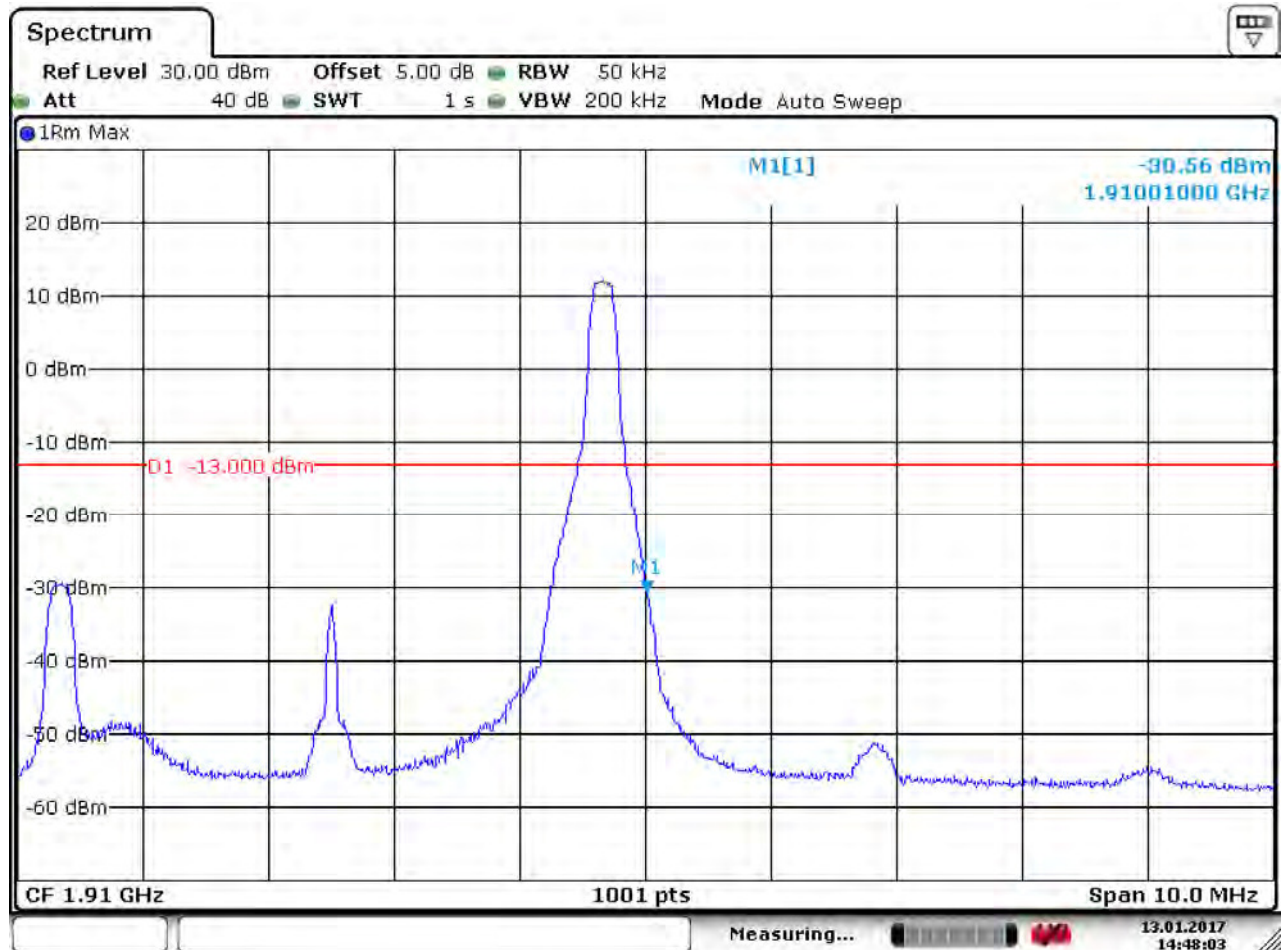


Date: 13.JAN.2017 14:50:35



5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 13.JAN.2017 14:48:04



5.1.1.7.2.2 Test RB=25RB



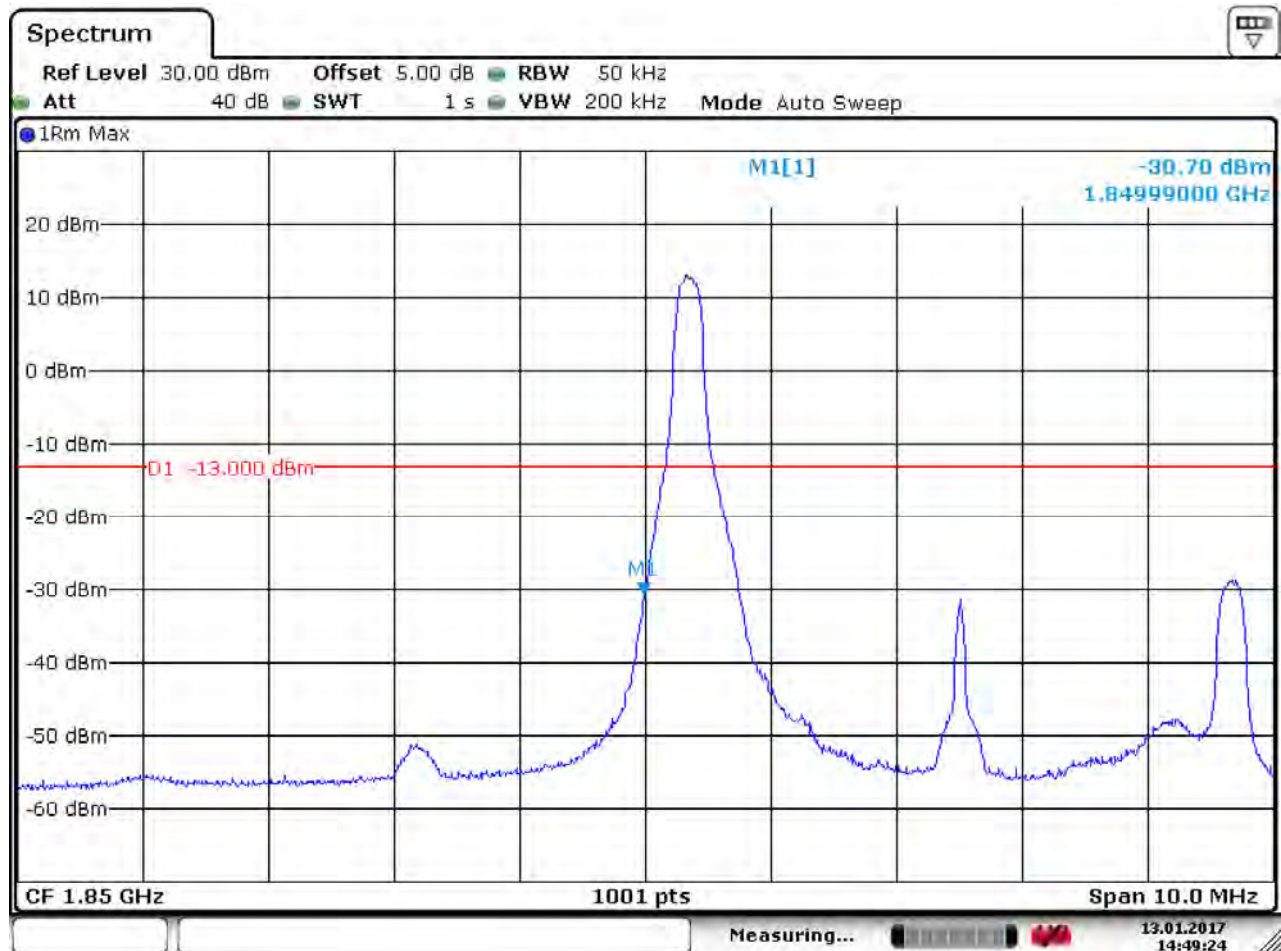
Date: 13.JAN.2017 14:45:43



5.1.1.8 Test Mode = LTE/TM2 5MHz

5.1.1.8.1 Test Channel = LCH

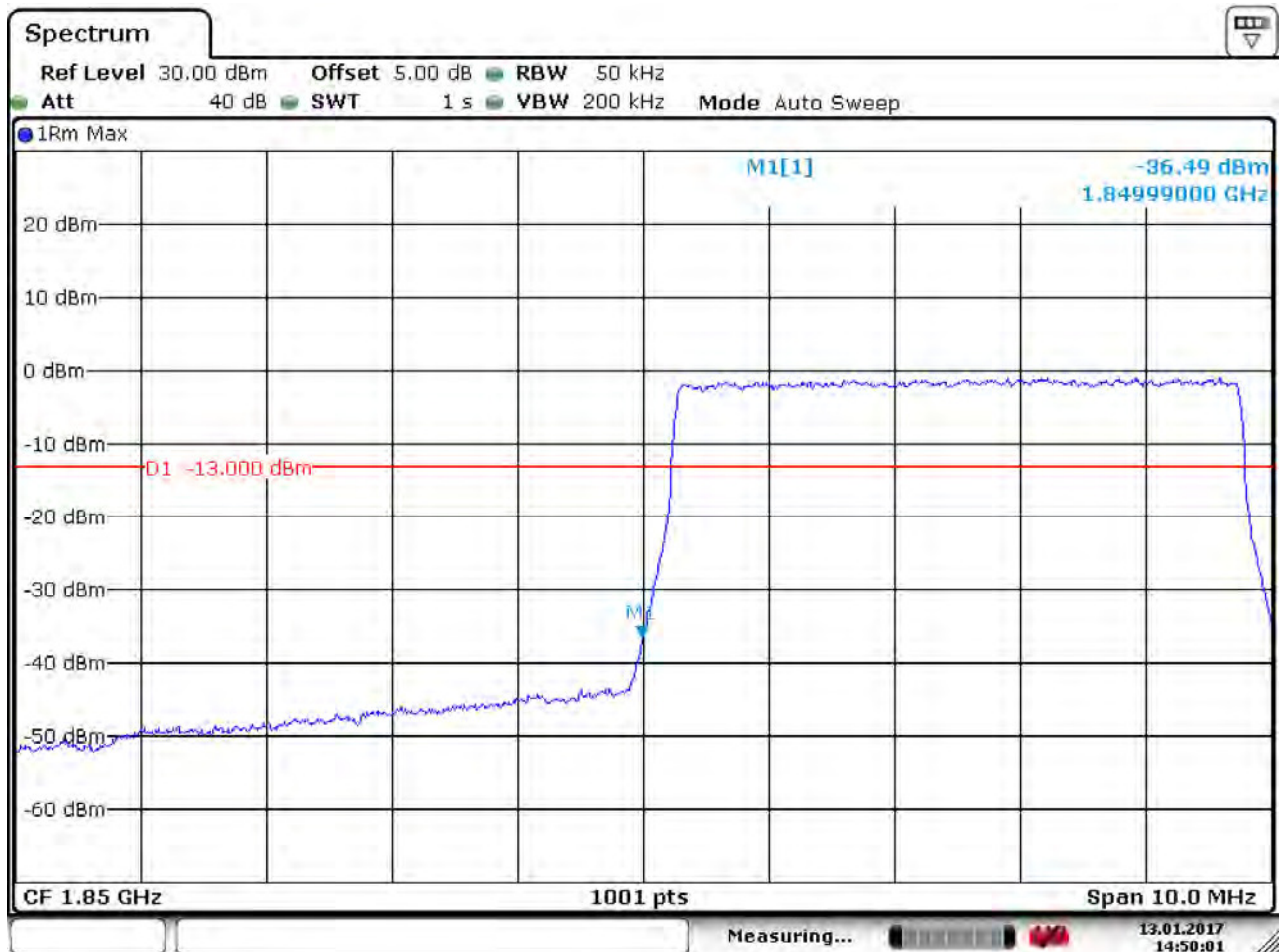
5.1.1.8.1.1 Test RB=1RB



Date: 13.JAN.2017 14:49:25



5.1.1.8.1.2 Test RB=25RB

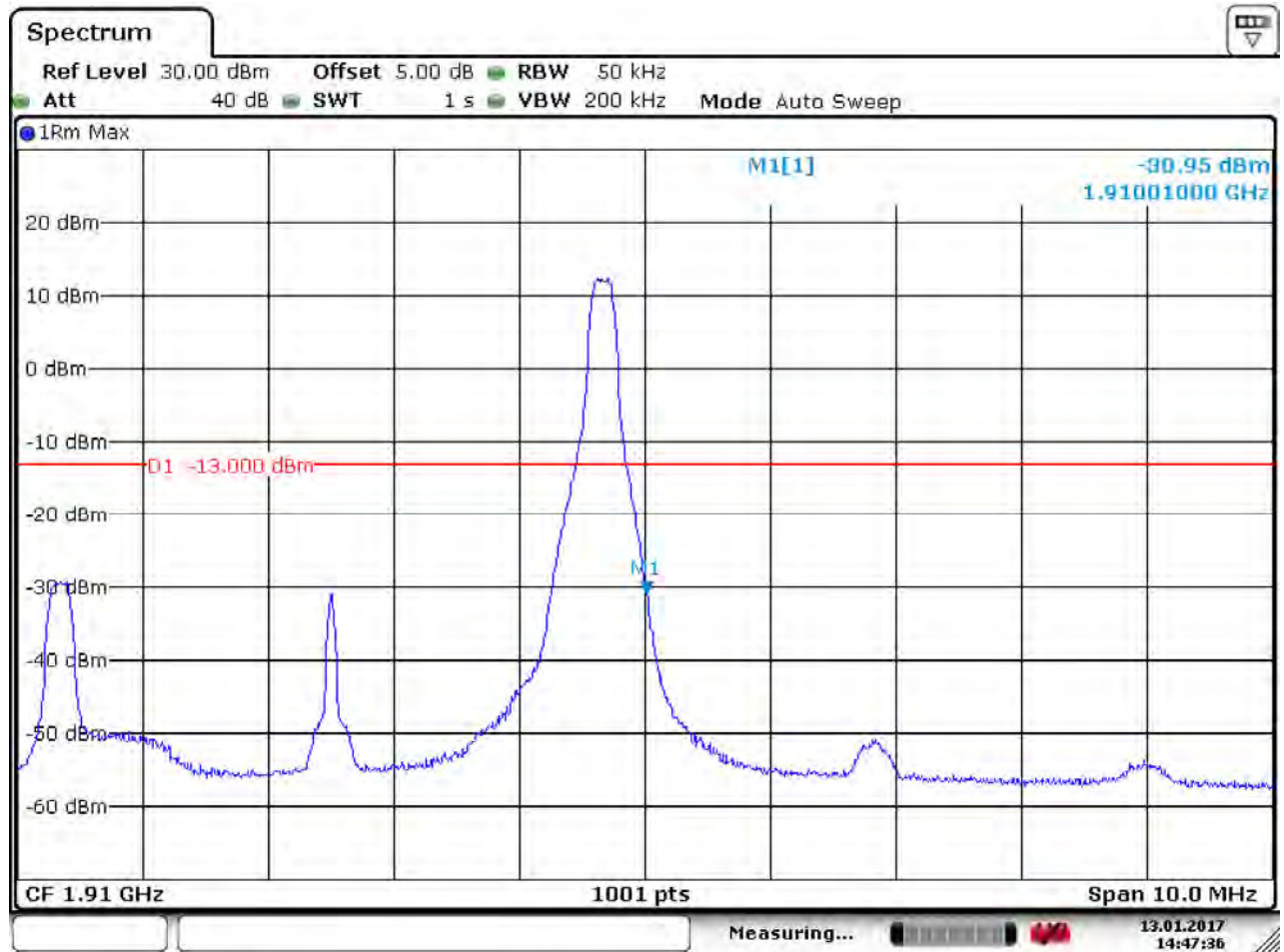


Date: 13.JAN.2017 14:50:02



5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 13.JAN.2017 14:47:36



5.1.1.8.2.2 Test RB=25RB



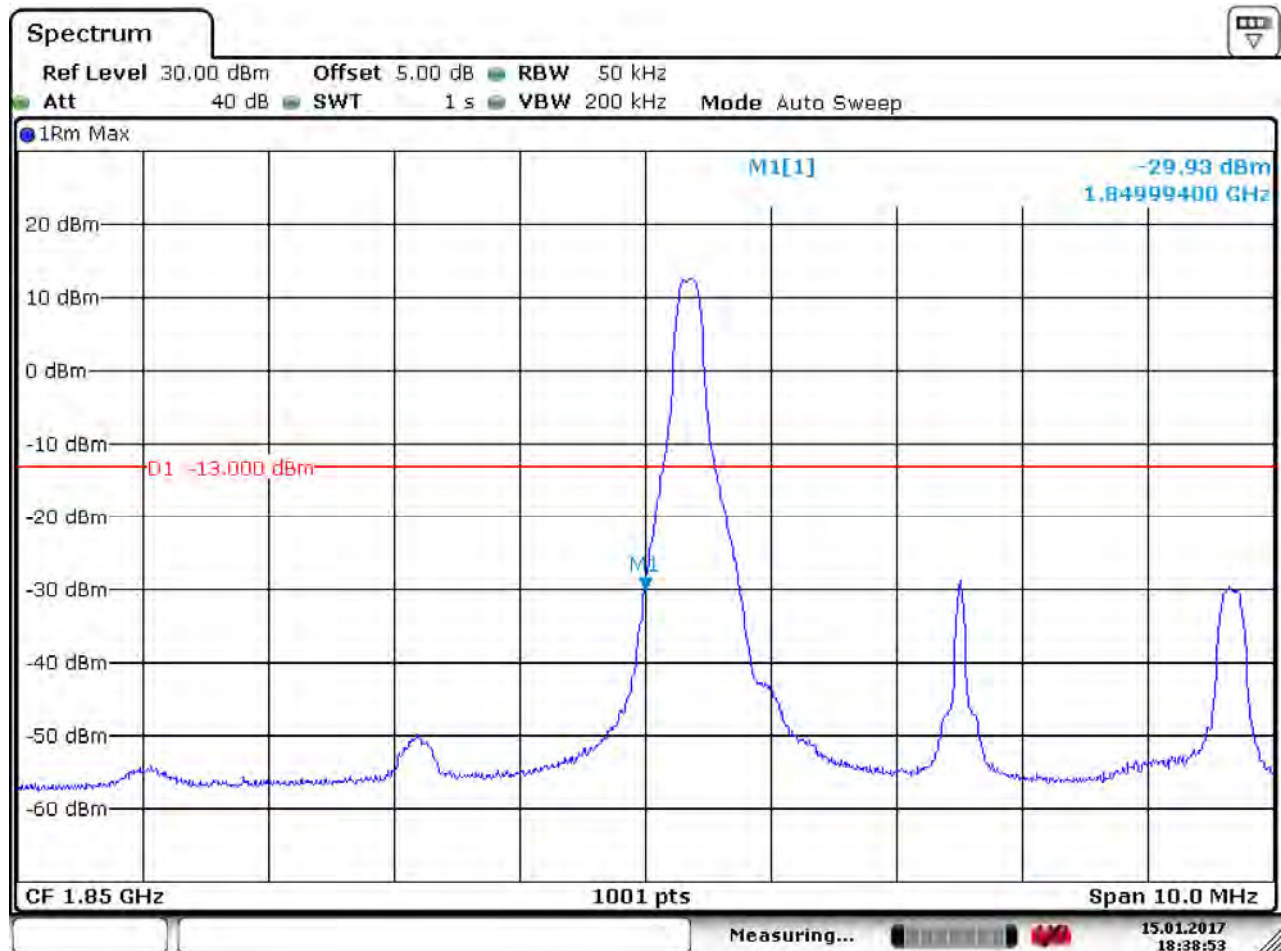
Date: 13.JAN.2017 14:46:14



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 18:38:53



5.1.1.9.1.2 Test RB=25RB

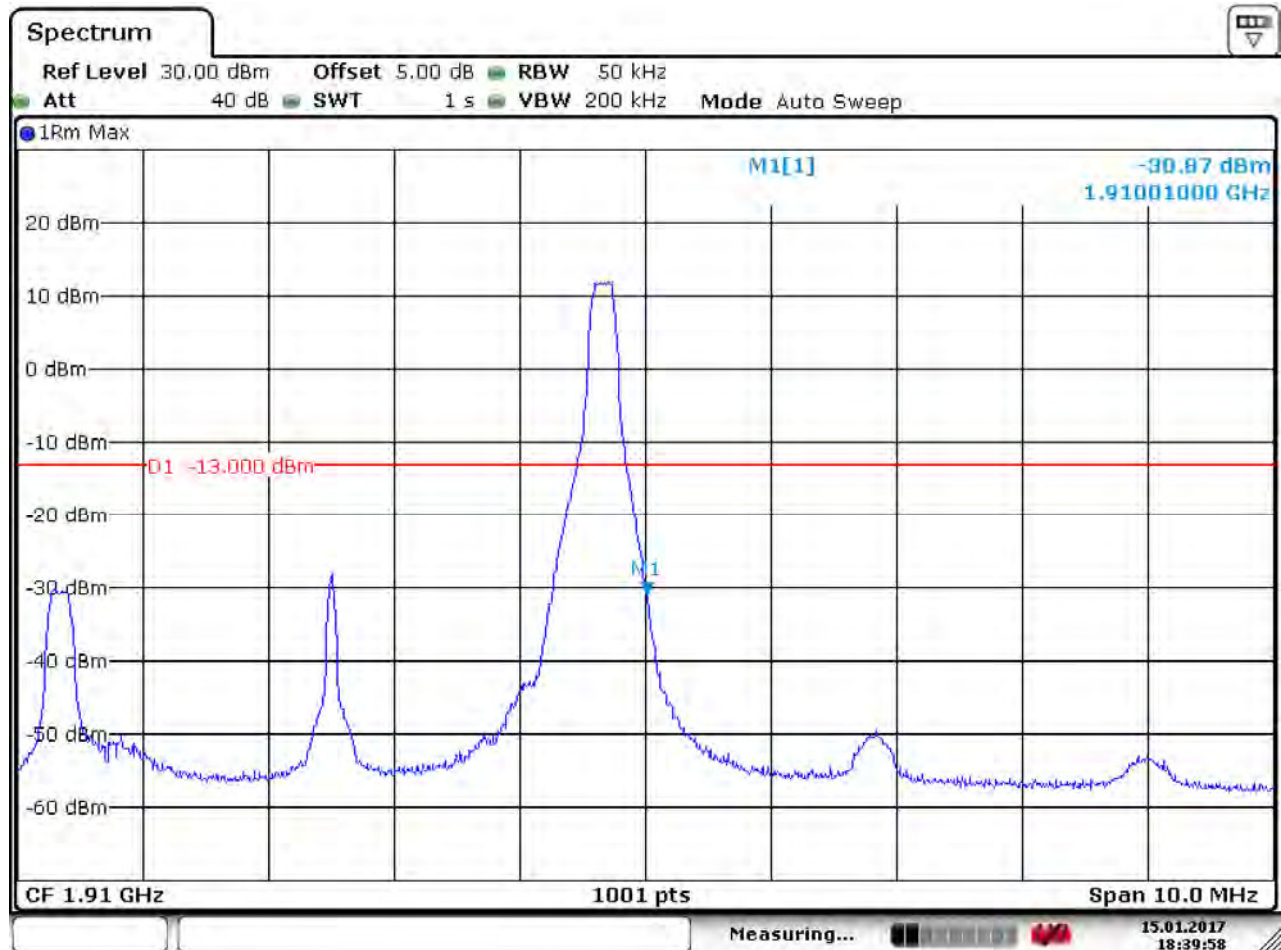


Date: 15 JAN 2017 18:38:10



5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



Date: 15.JAN.2017 18:39:58



5.1.1.9.2.2 Test RB=25RB



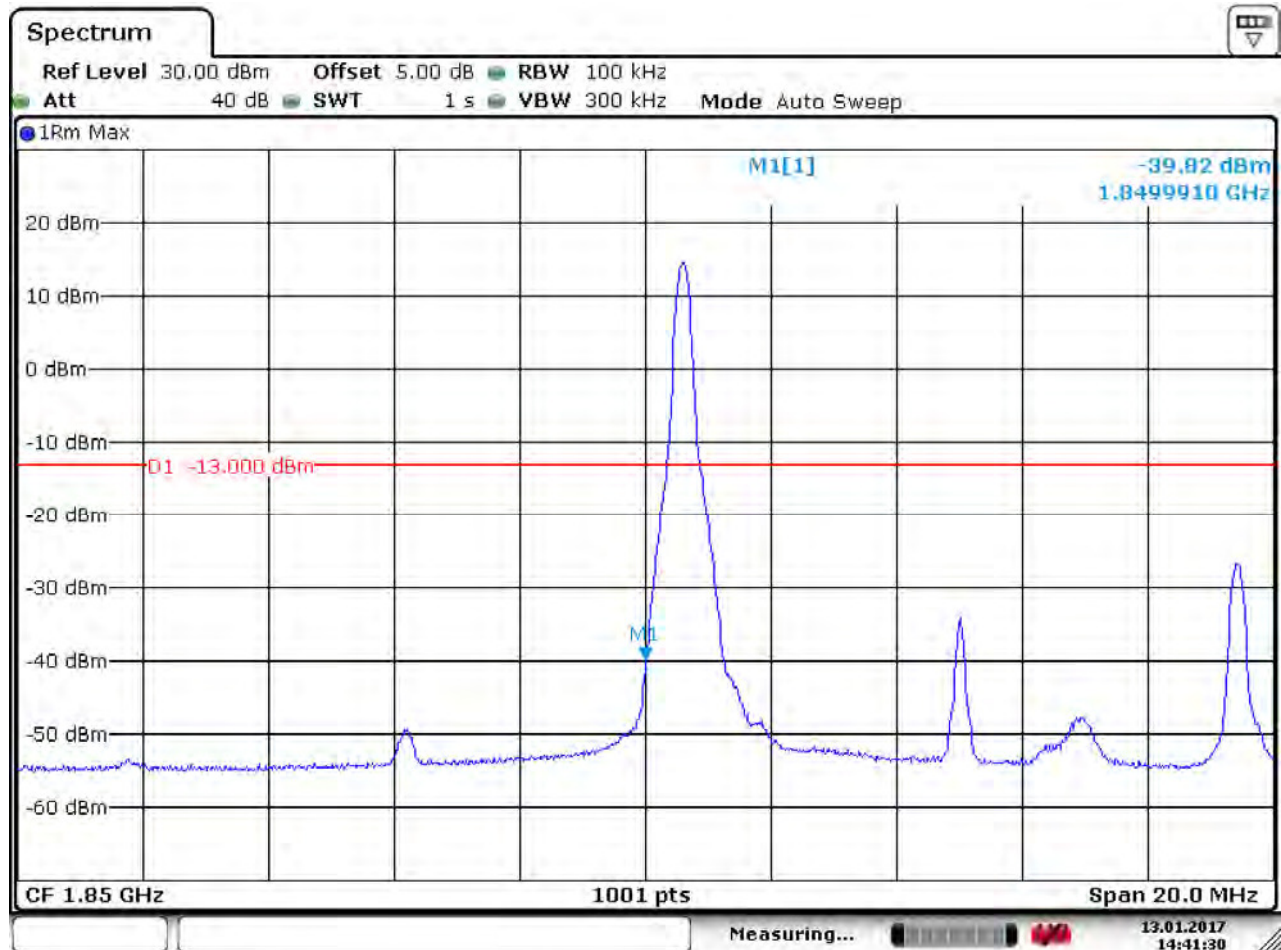
Date: 15.JAN.2017 18:40:20



5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

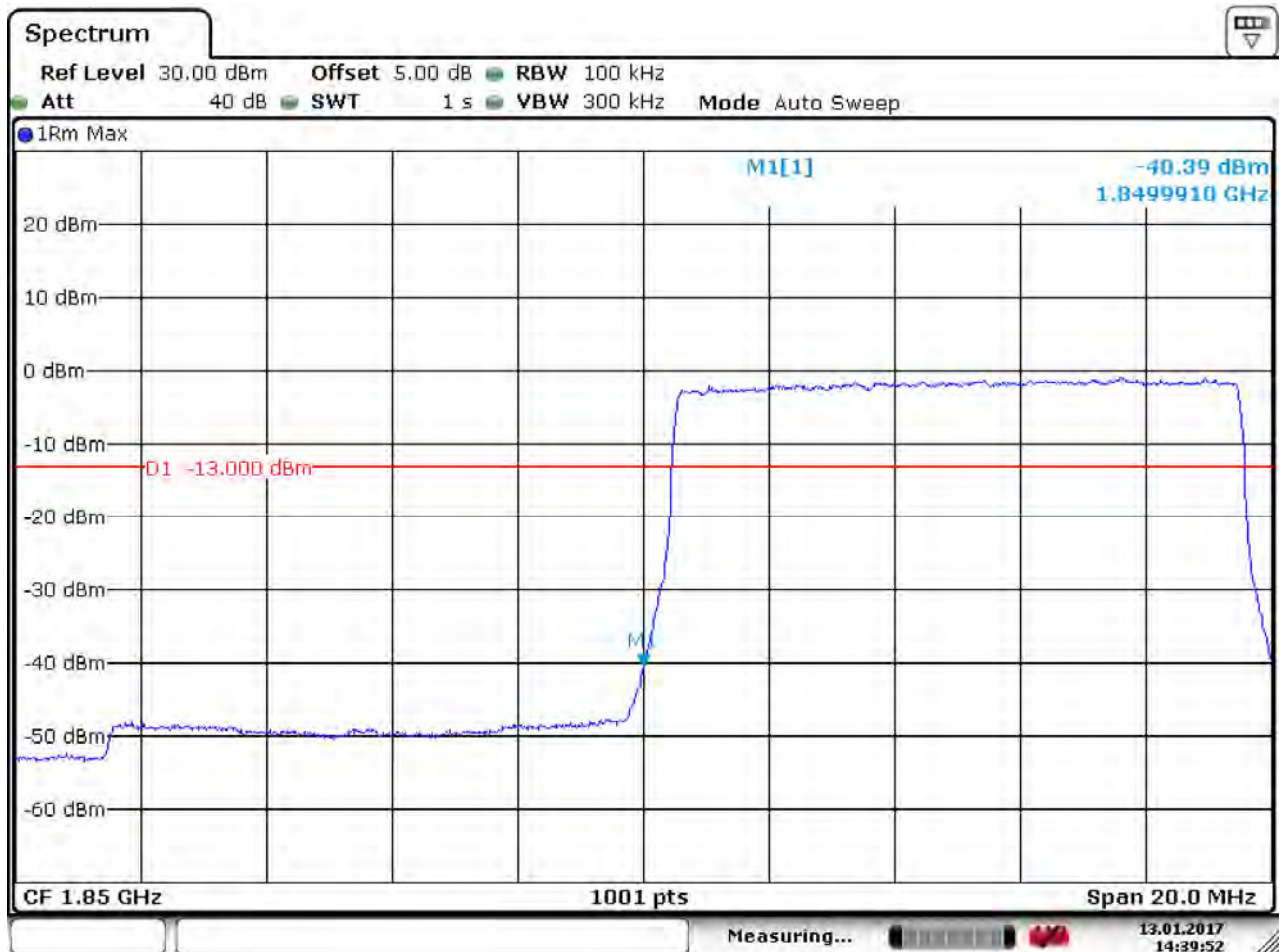
5.1.1.10.1.1 Test RB=1RB



Date: 13.JAN.2017 14:41:30



5.1.1.10.1.2 Test RB=50RB

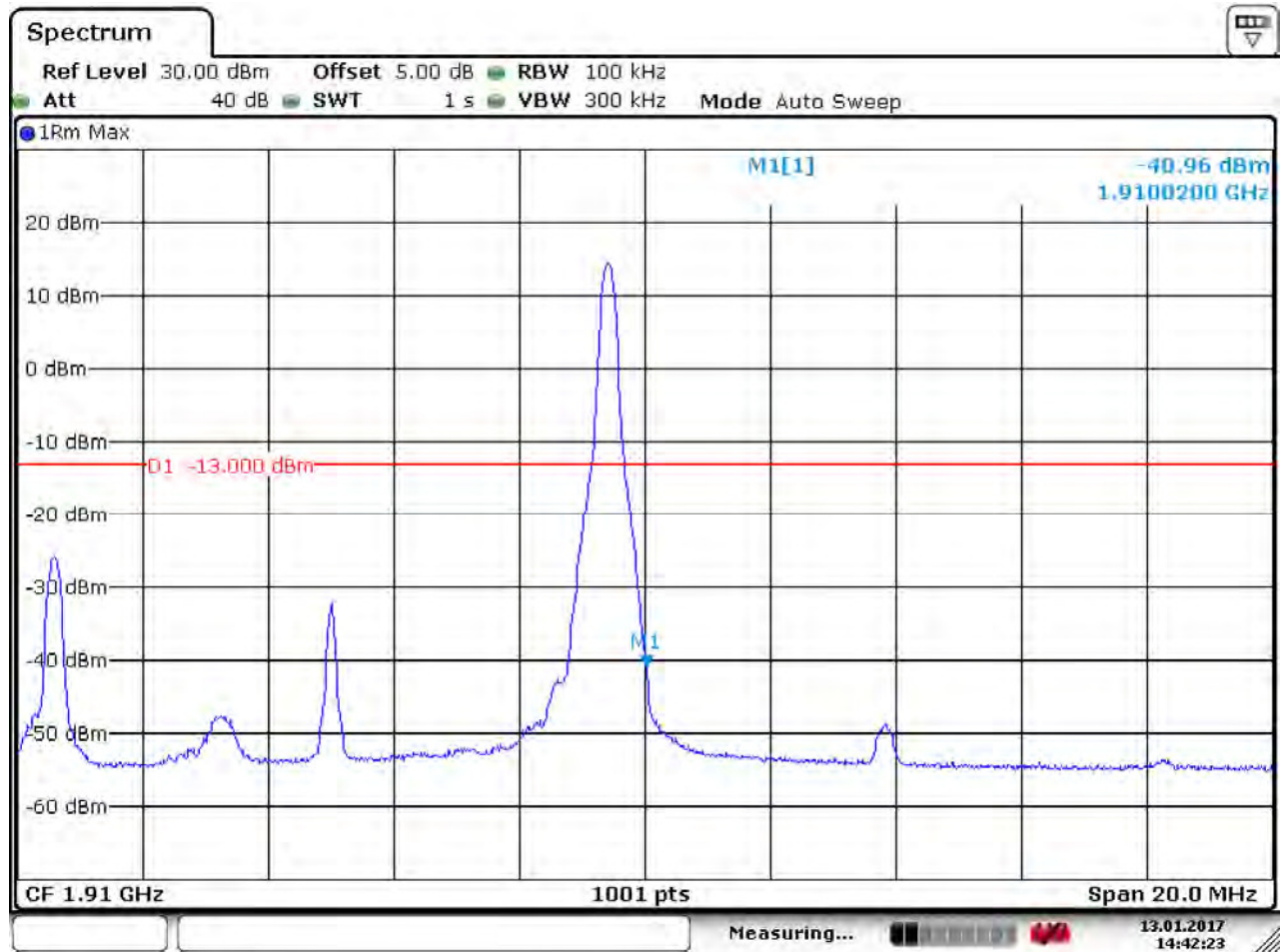


Date: 13.JAN.2017 14:39:53



5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 13.JAN.2017 14:42:24

5.1.1.10.2.2 Test RB=50RB



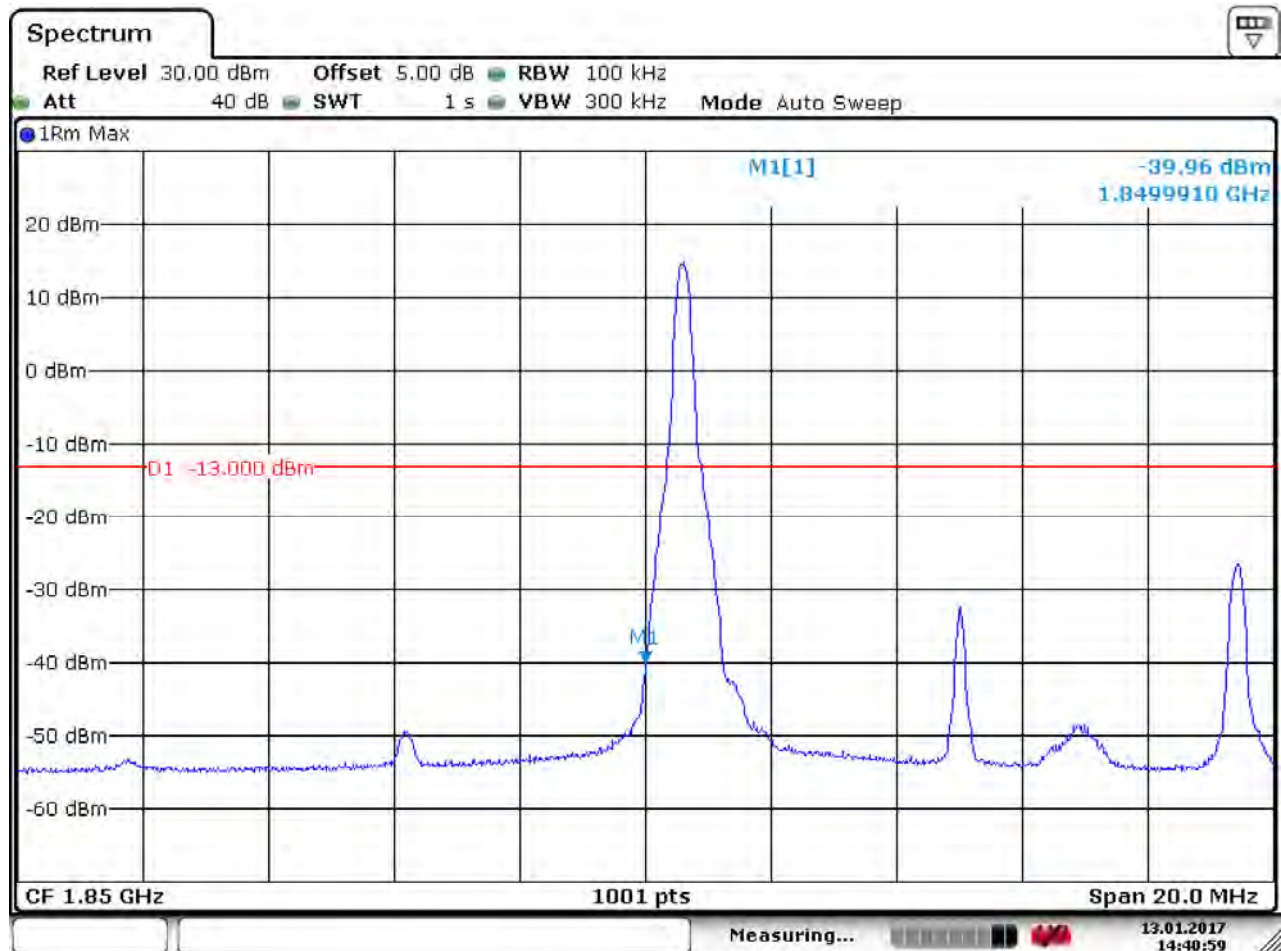
Date: 13.JAN.2017 14:44:38



5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

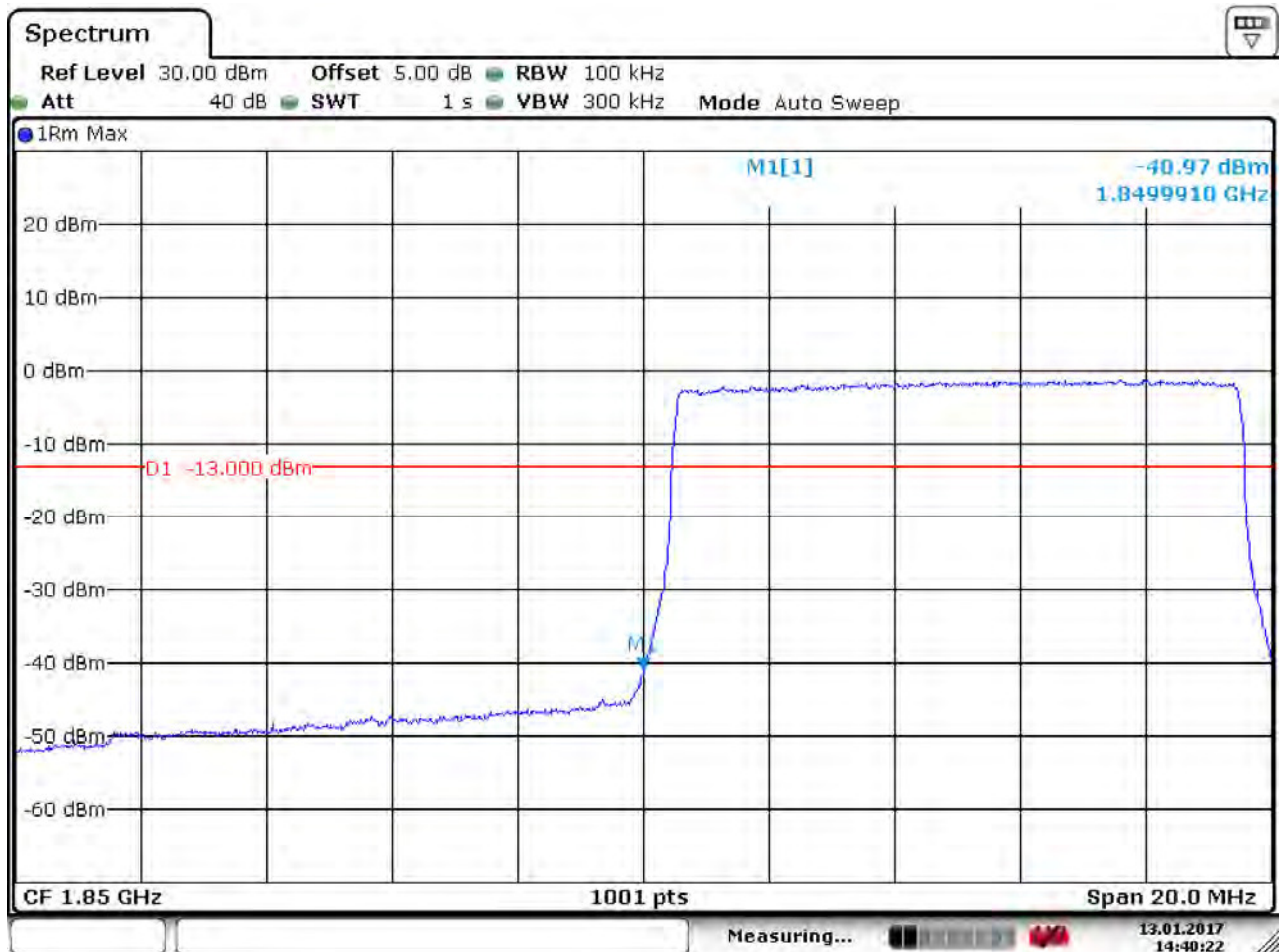
5.1.1.11.1.1 Test RB=1RB



Date: 13.JAN.2017 14:41:00



5.1.1.11.1.2 Test RB=50RB

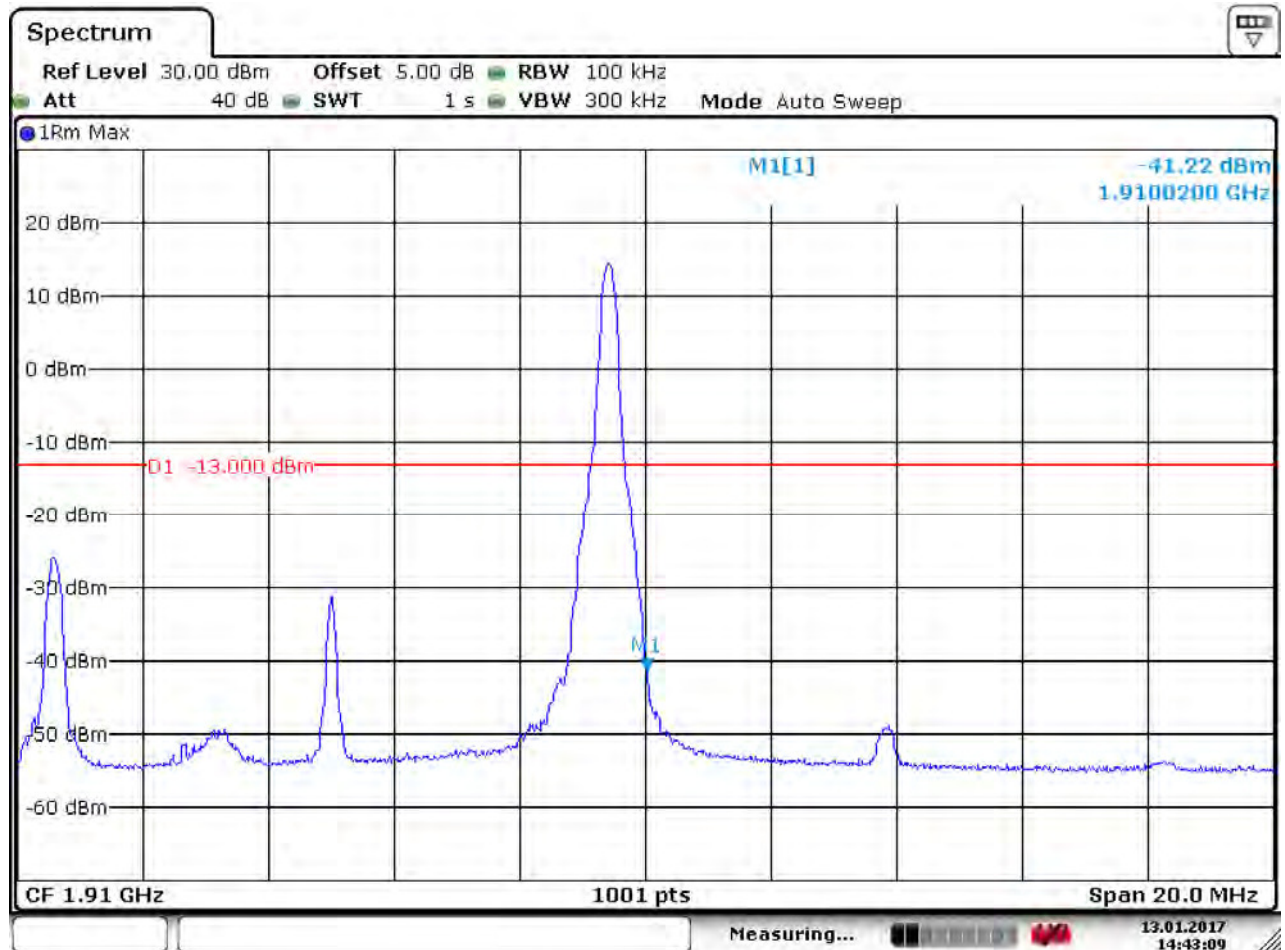


Date: 13.JAN.2017 14:40:22



5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 13.JAN.2017 14:43:10



5.1.1.11.2.2 Test RB=50RB



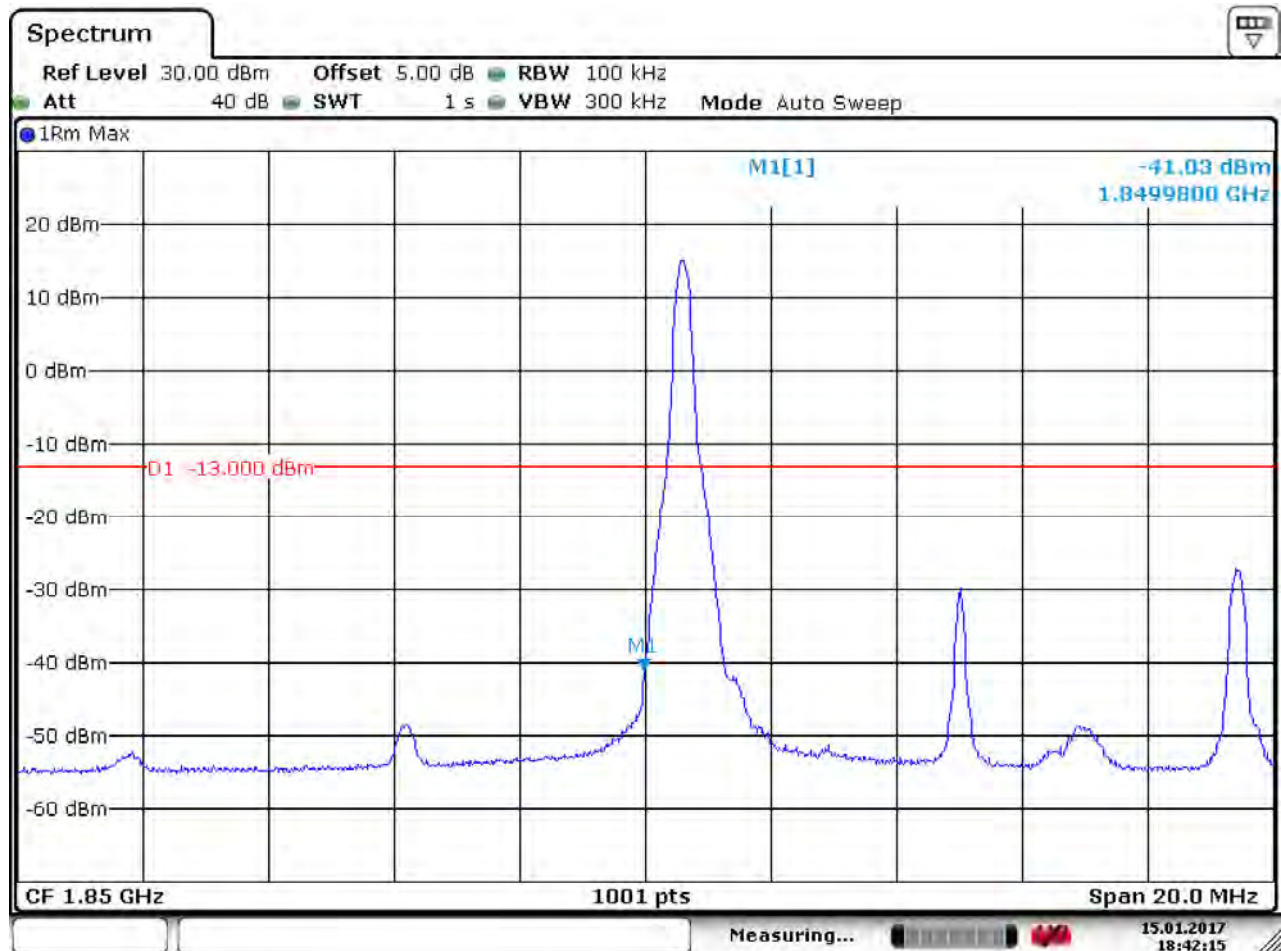
Date: 13.JAN.2017 14:43:54



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 18:42:16



5.1.1.12.1.2 Test RB=50RB

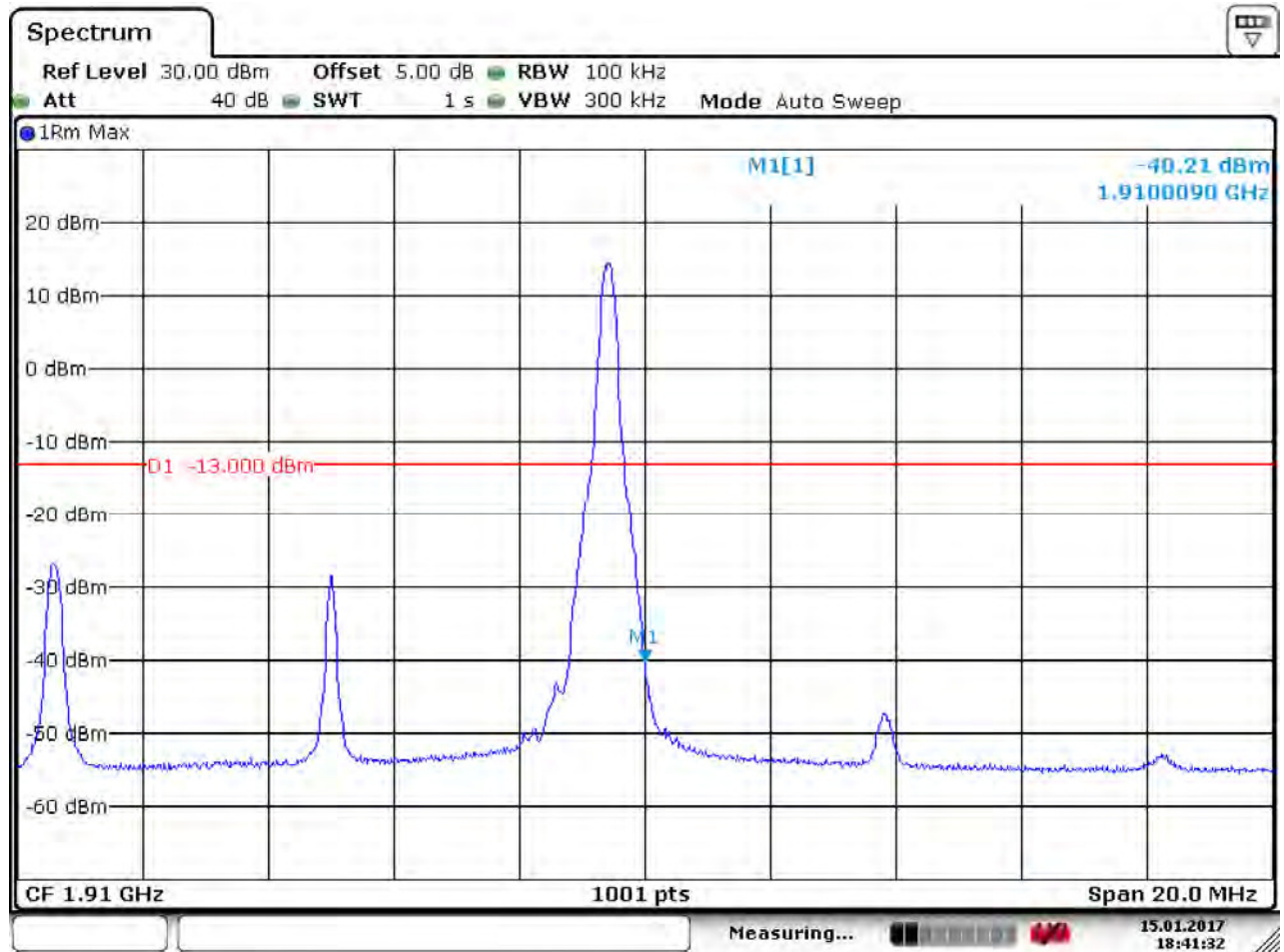


Date: 15.JAN.2017 18:42:42



5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 15.JAN.2017 18:41:32



5.1.1.12.2.2 Test RB=50RB



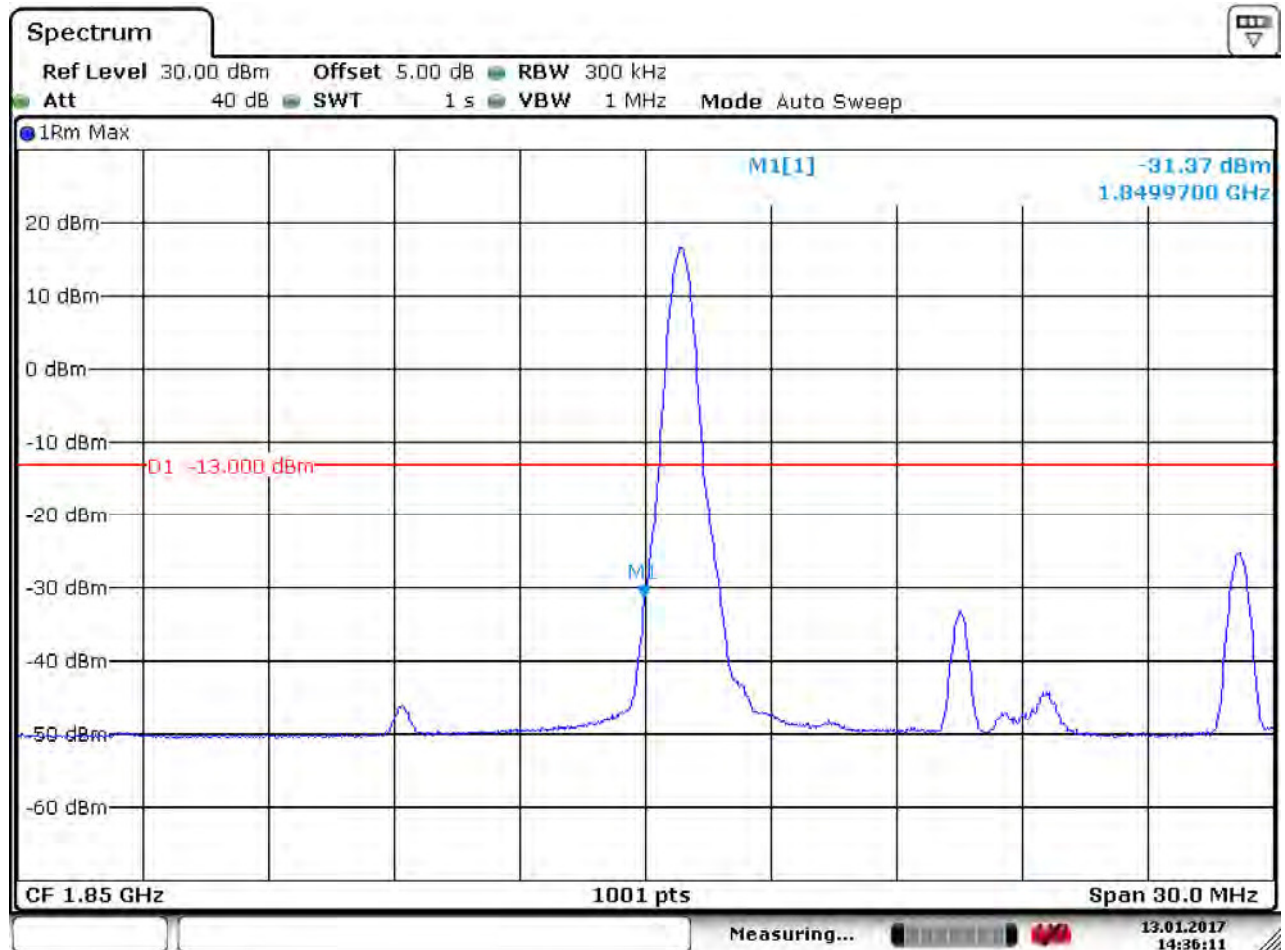
Date: 15.JAN.2017 18:41:07



5.1.1.13 Test Mode = LTE/TM1 15MHz

5.1.1.13.1 Test Channel = LCH

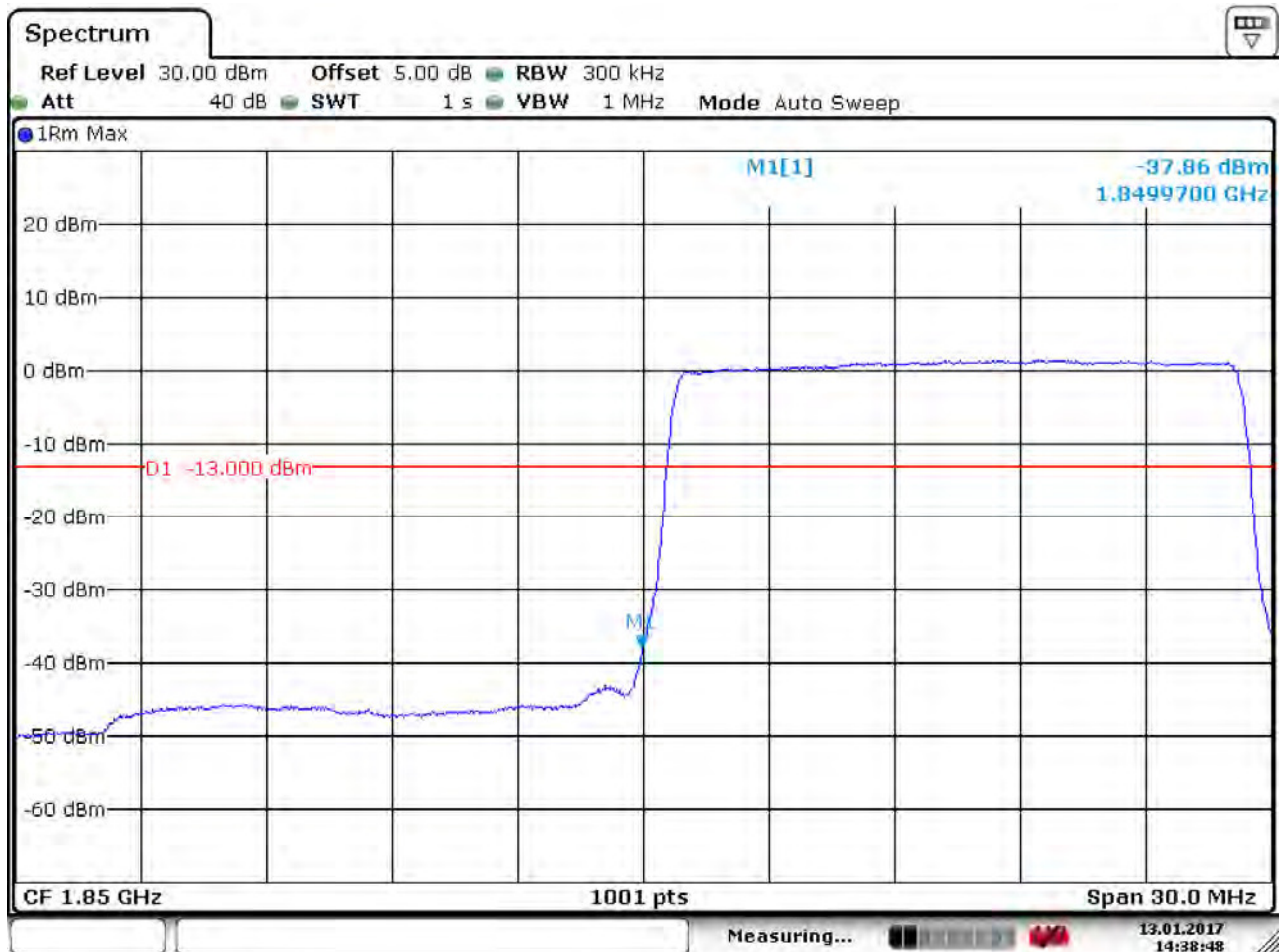
5.1.1.13.1.1 Test RB=1RB



Date: 13.JAN.2017 14:36:11



5.1.1.13.1.2 Test RB=75RB

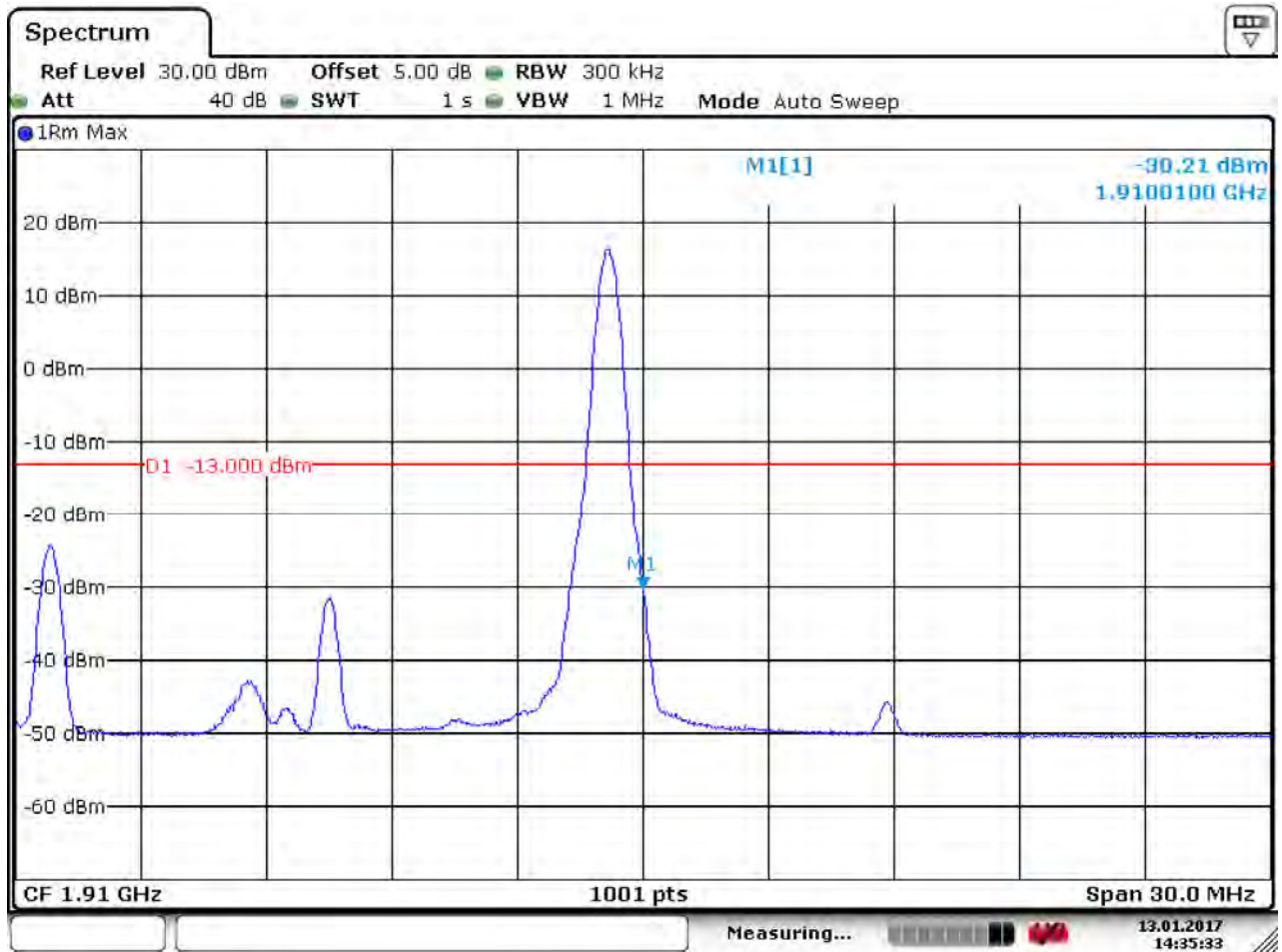


Date: 13.JAN.2017 14:38:49



5.1.1.13.2 Test Channel = HCH

5.1.1.13.2.1 Test RB=1RB



Date: 13.JAN.2017 14:35:33



5.1.1.13.2.2 Test RB=75RB



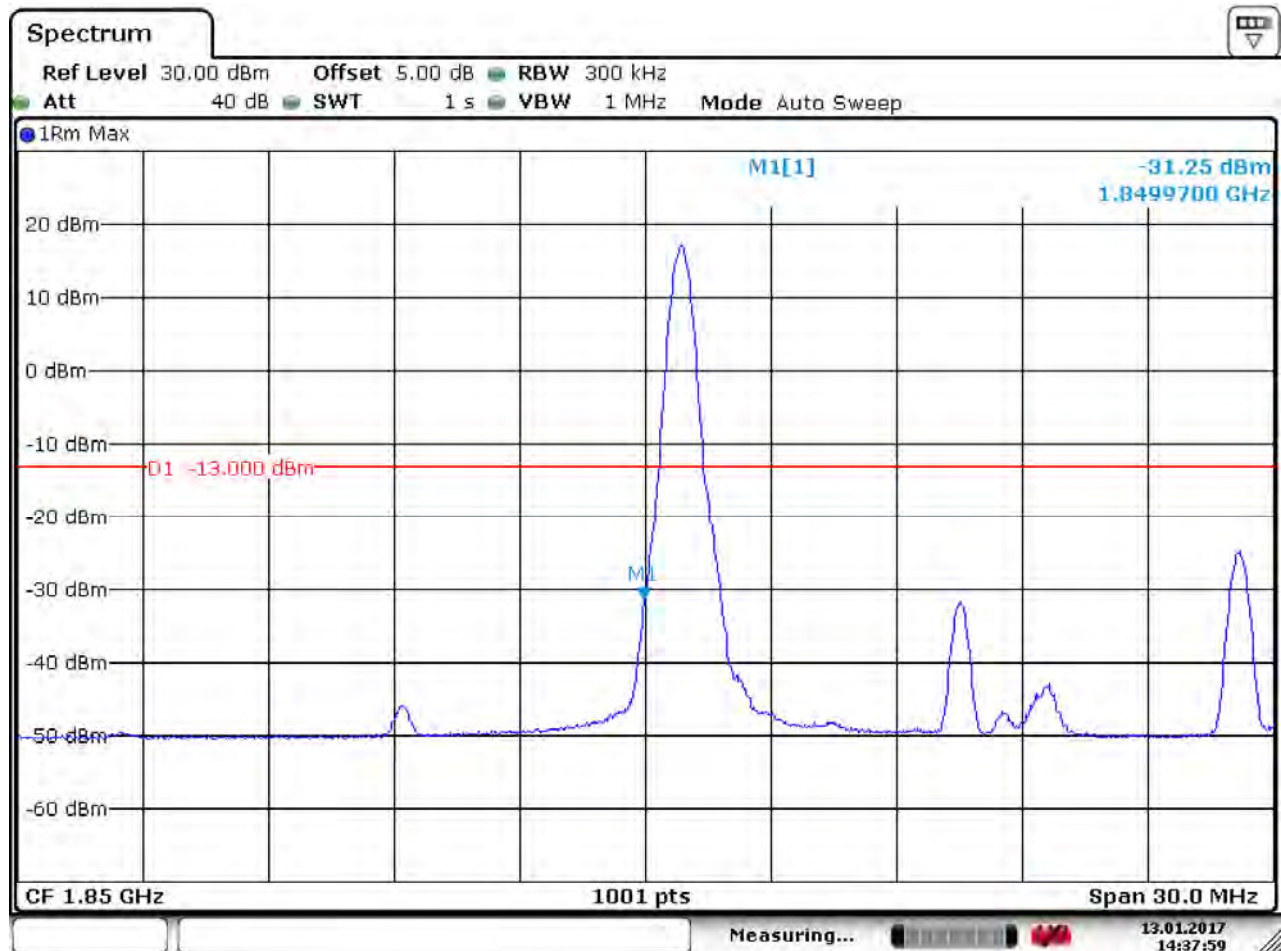
Date: 13.JAN.2017 14:33:52



5.1.1.14 Test Mode = LTE/TM2 15MHz

5.1.1.14.1 Test Channel = LCH

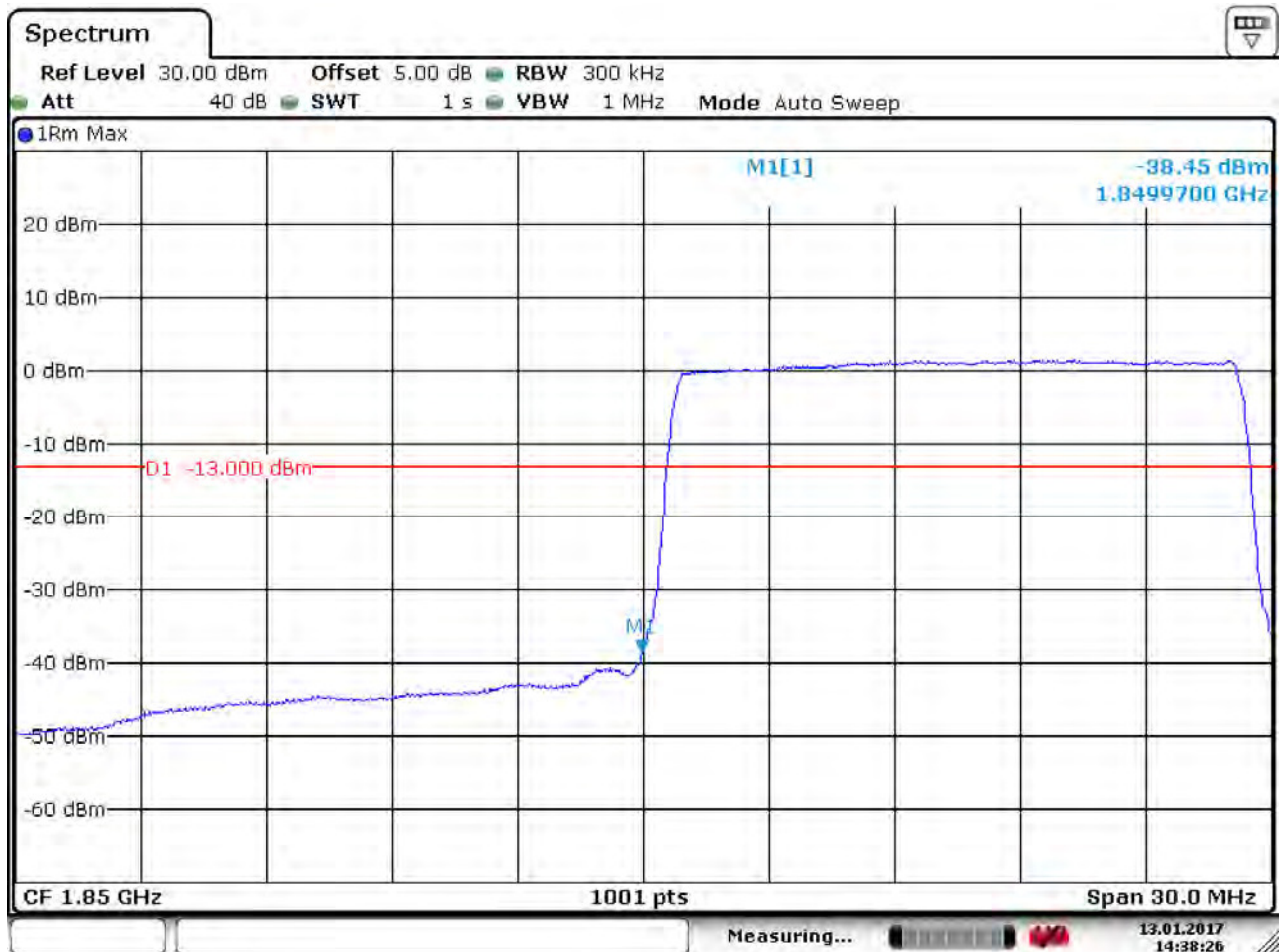
5.1.1.14.1.1 Test RB=1RB



Date: 13.JAN.2017 14:37:59



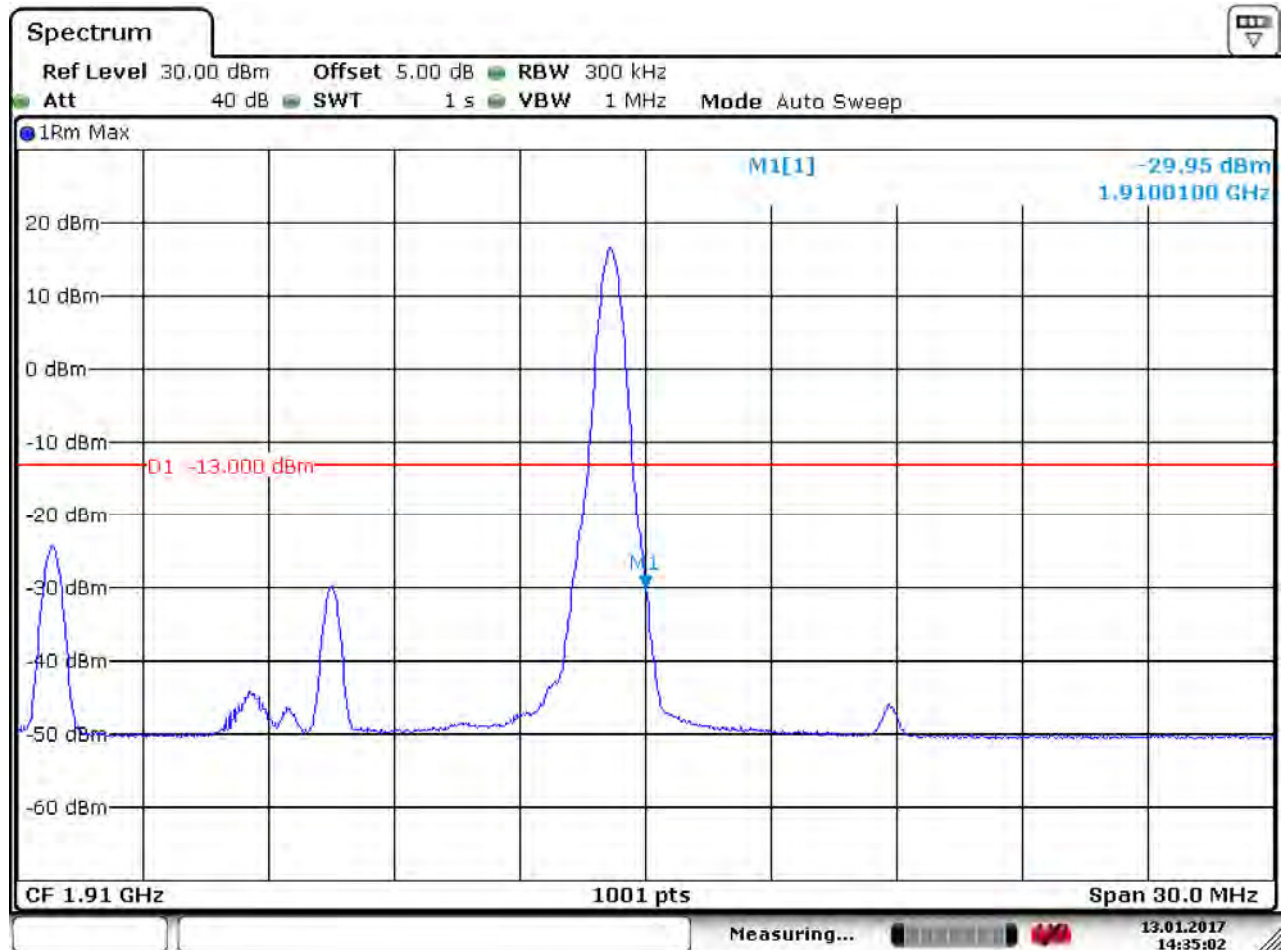
5.1.14.1.2 Test RB=75RB



Date: 13.JAN.2017 14:38:26

5.1.1.14.2 Test Channel = HCH

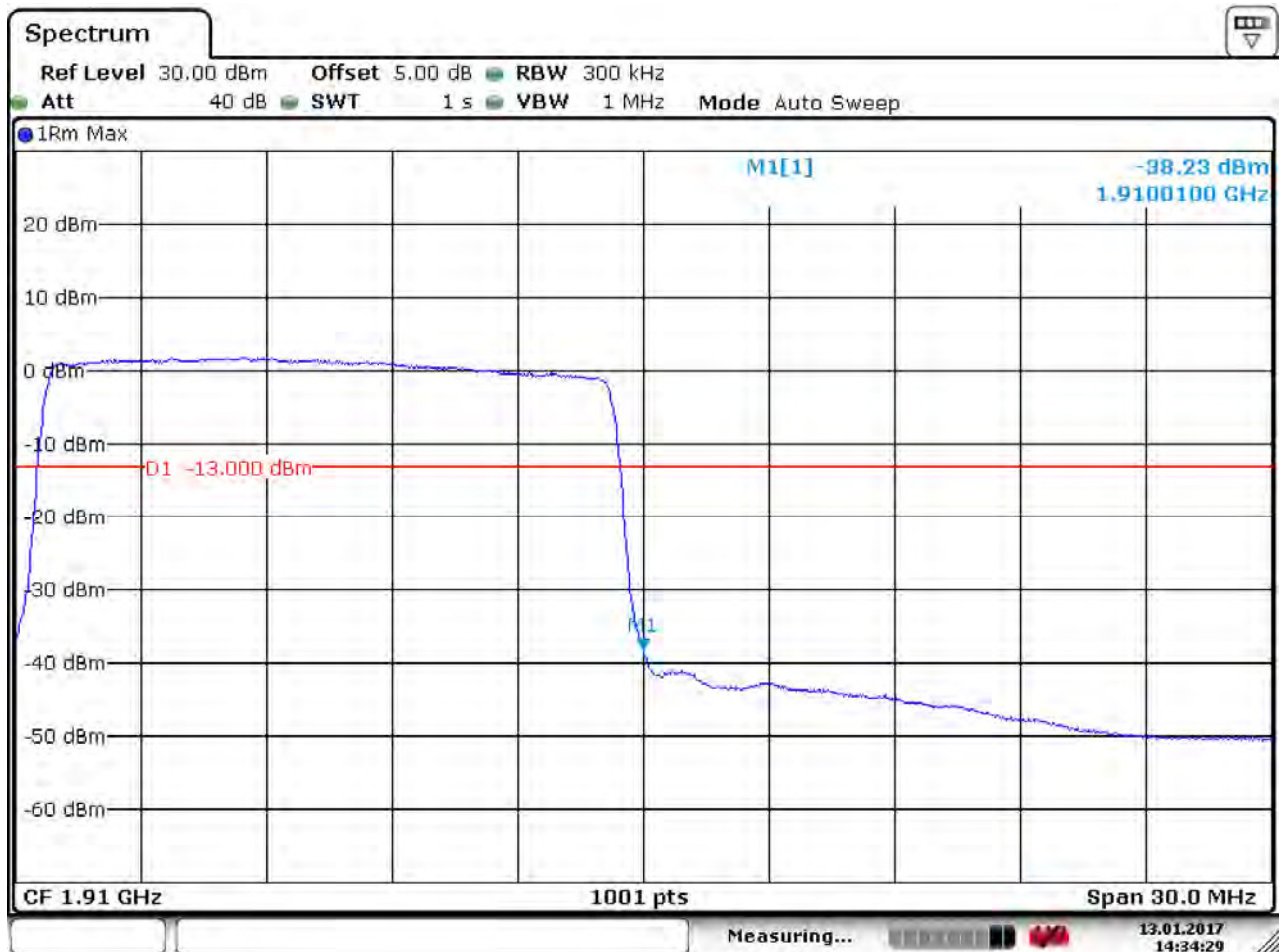
5.1.1.14.2.1 Test RB=1RB



Date: 13.JAN.2017 14:35:03



5.1.1.14.2.2 Test RB=75RB



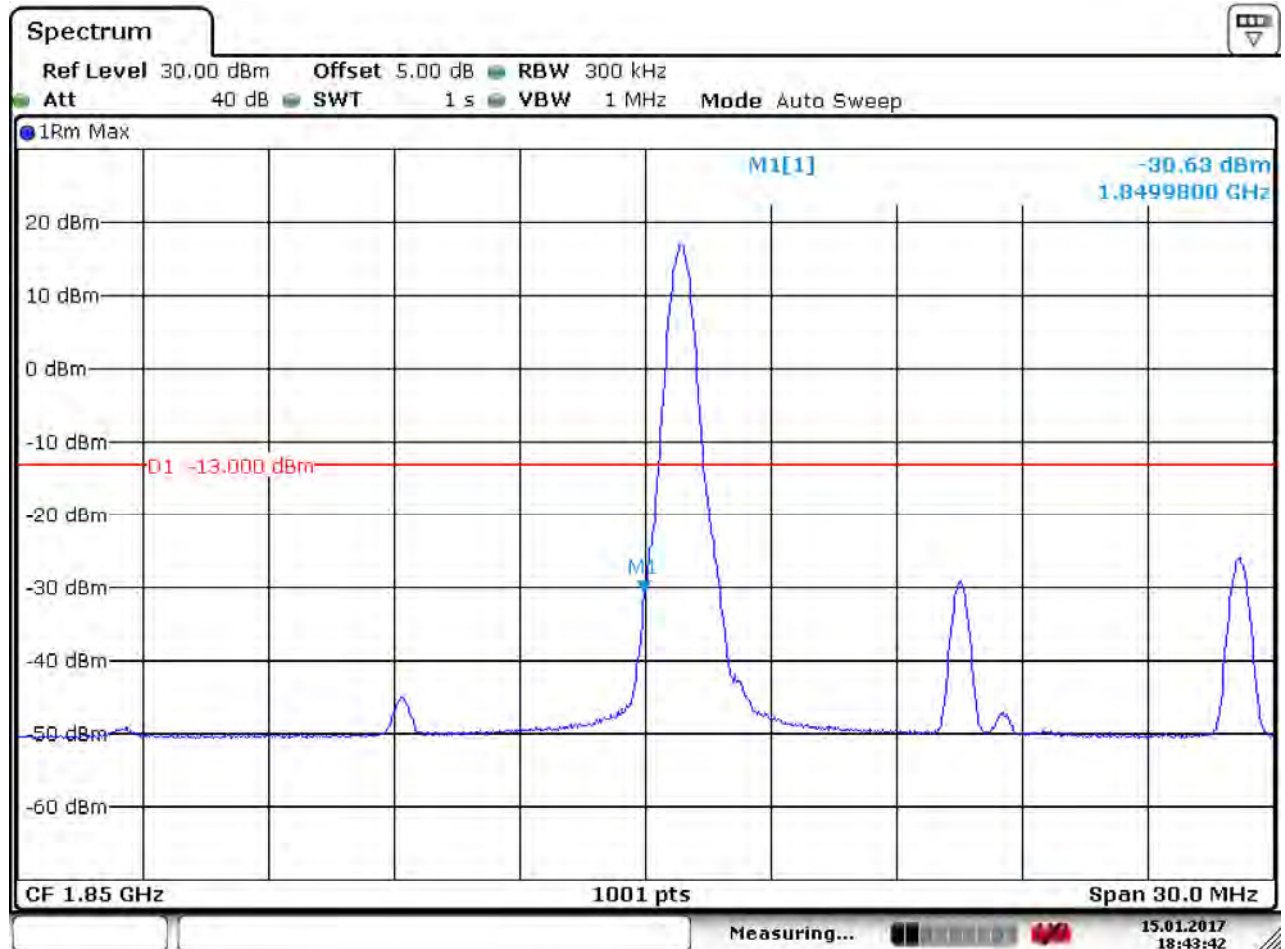
Date: 13.JAN.2017 14:34:29



5.1.1.15 Test Mode = LTE/TM3 15MHz

5.1.1.15.1 Test Channel = LCH

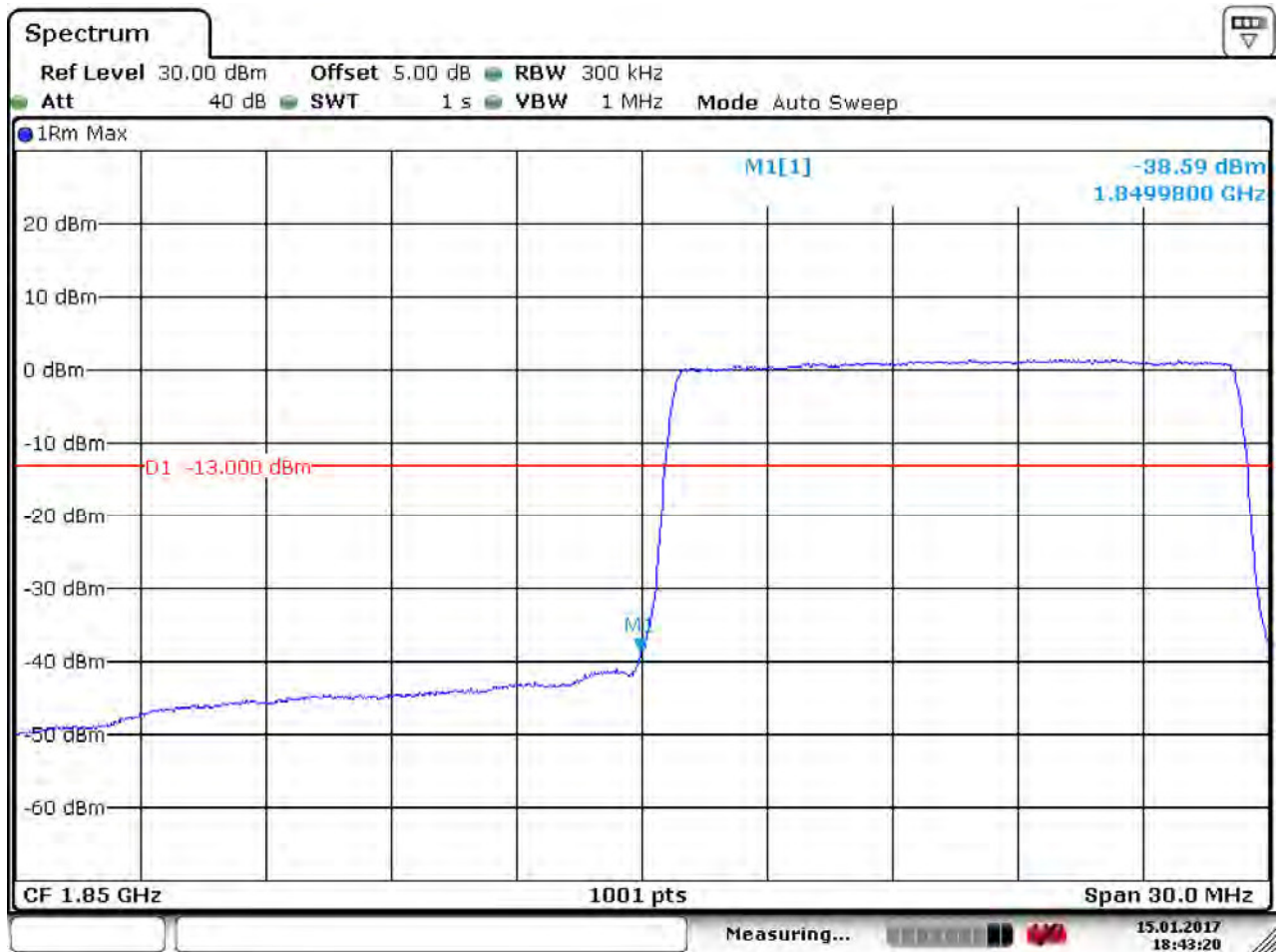
5.1.1.15.1.1 Test RB=1RB



Date: 15.JAN.2017 18:43:42



5.1.1.15.1.2 Test RB=75RB

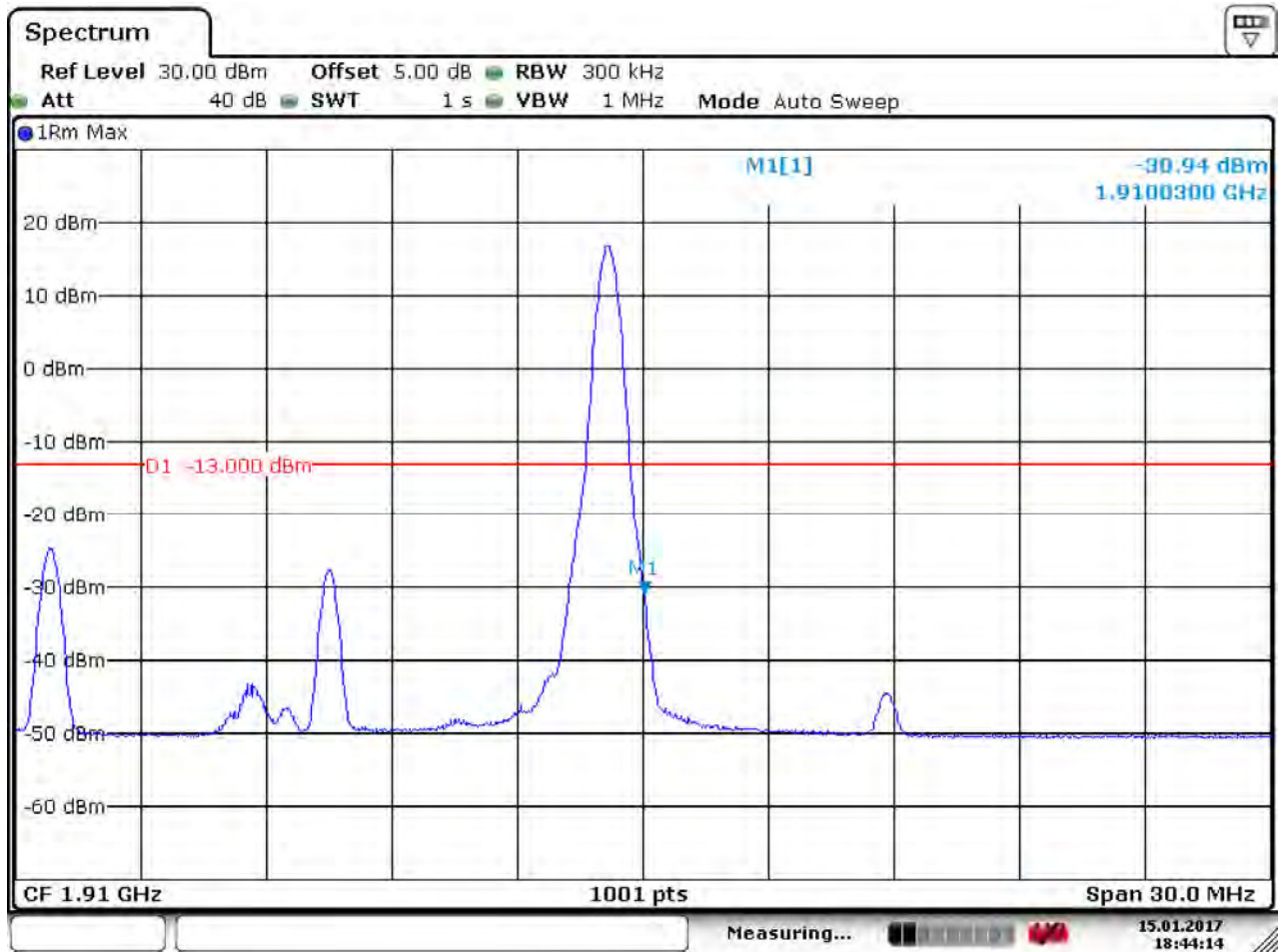


Date: 15.JAN.2017 18:43:20



5.1.1.15.2 Test Channel = HCH

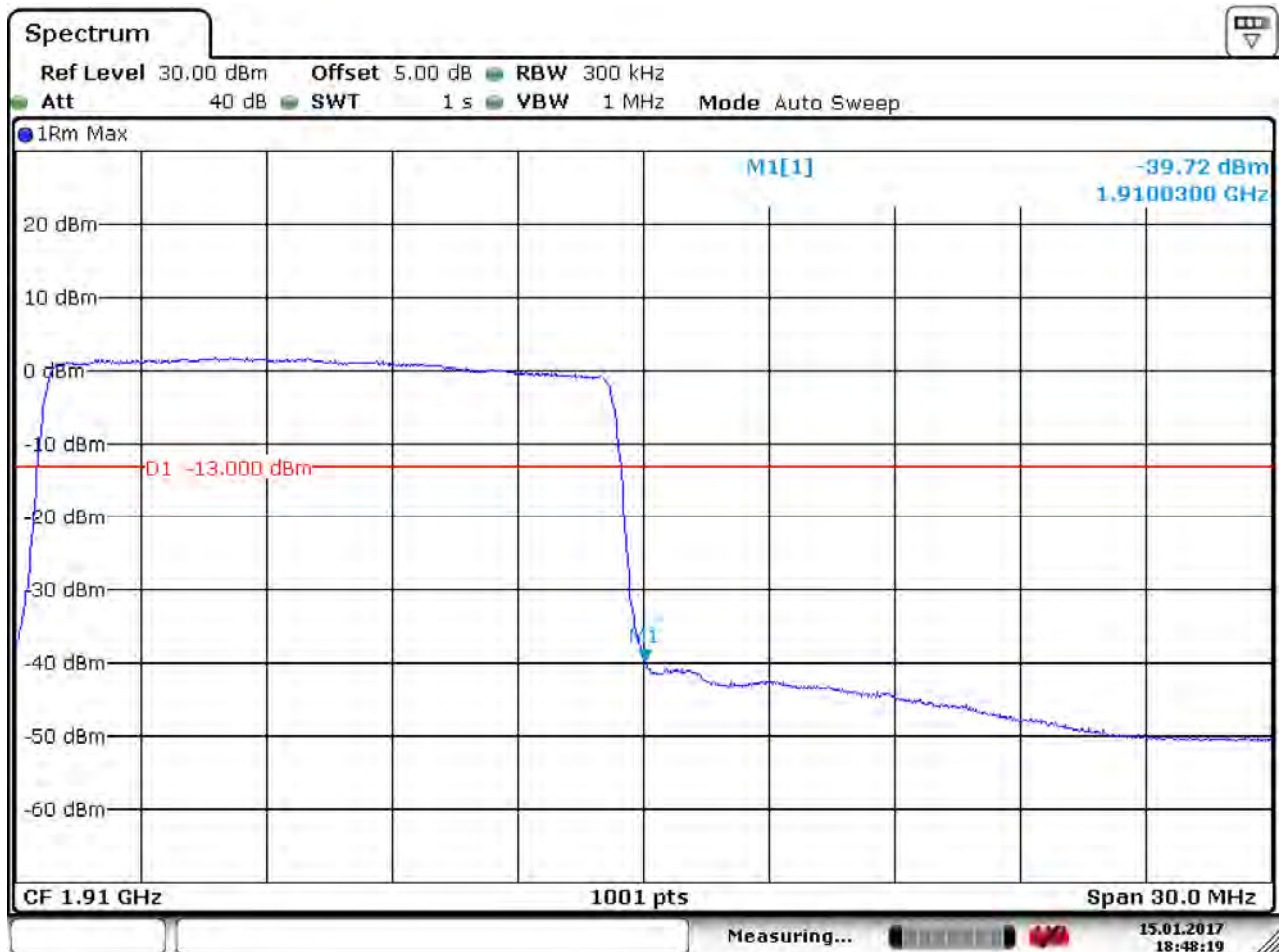
5.1.1.15.2.1 Test RB=1RB



Date: 15.JAN.2017 18:44:15



5.1.1.15.2.2 Test RB=75RB

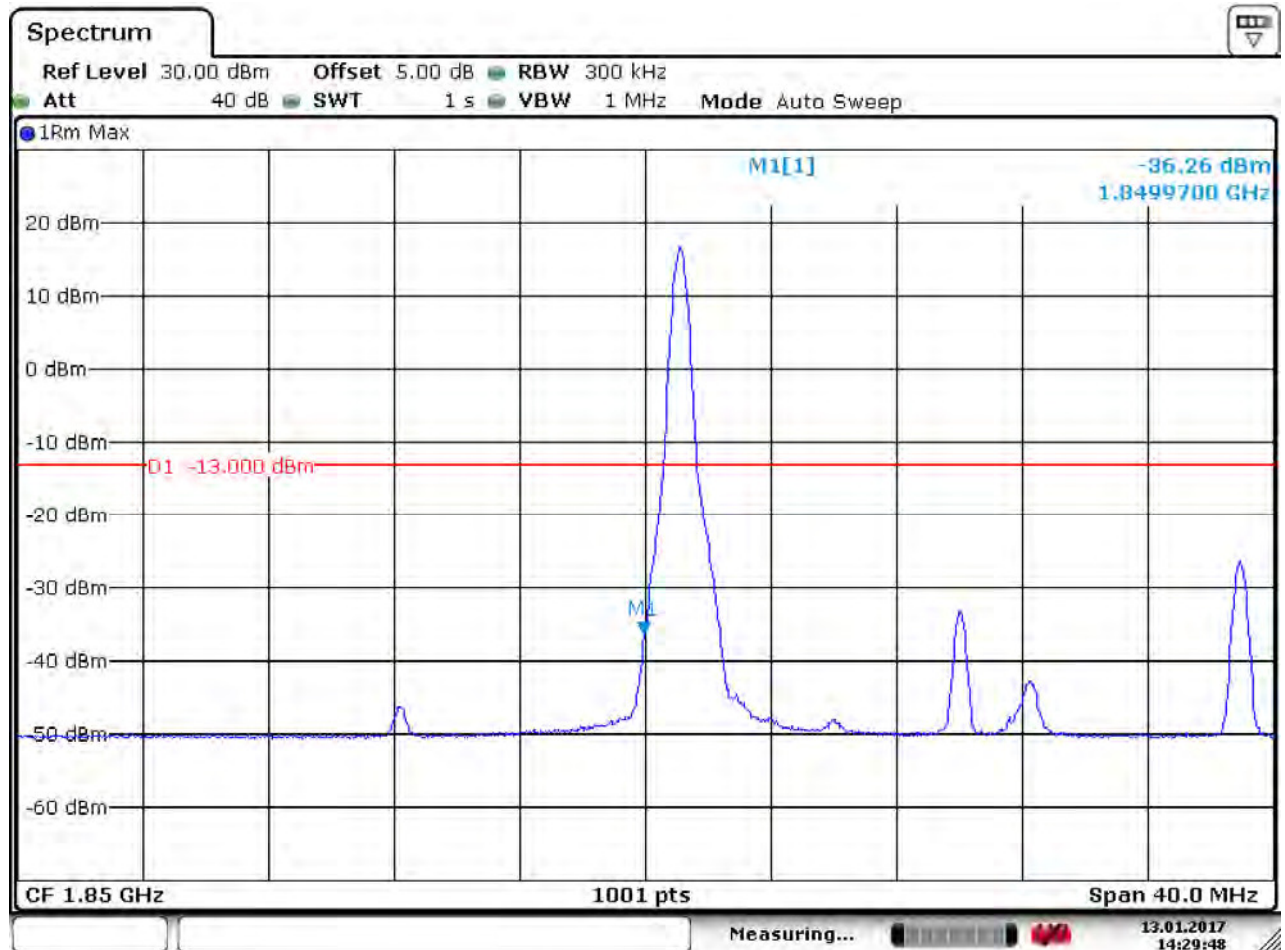


Date: 15.JAN.2017 18:48:20

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: 13.JAN.2017 14:29:49



5.1.1.16.1.2 Test RB=100RB

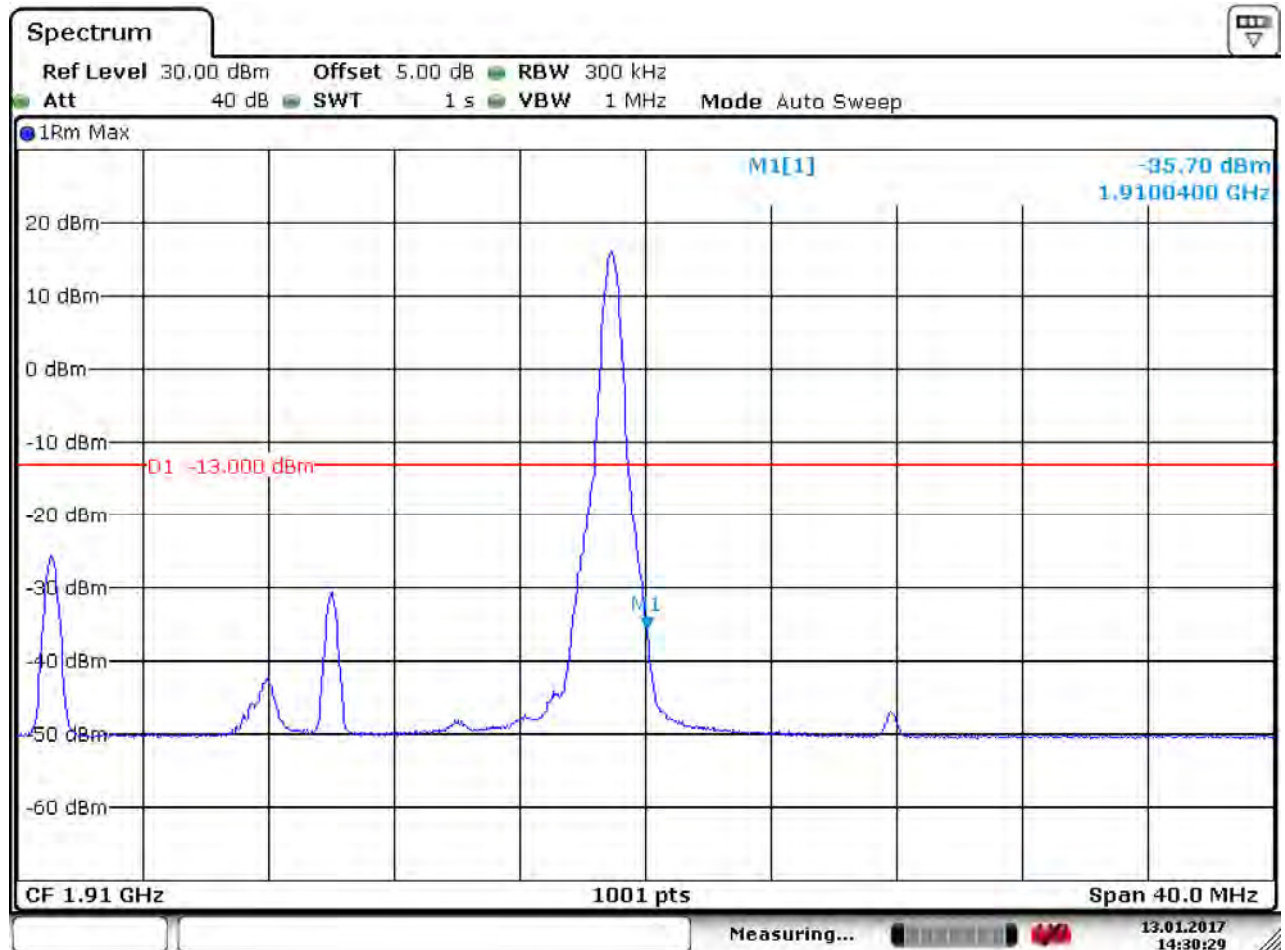


Date: 13.JAN.2017 14:28:20



5.1.1.16.2 Test Channel = HCH

5.1.1.16.2.1 Test RB=1RB



Date: 13.JAN.2017 14:30:29



5.1.1.16.2.2 Test RB=100RB



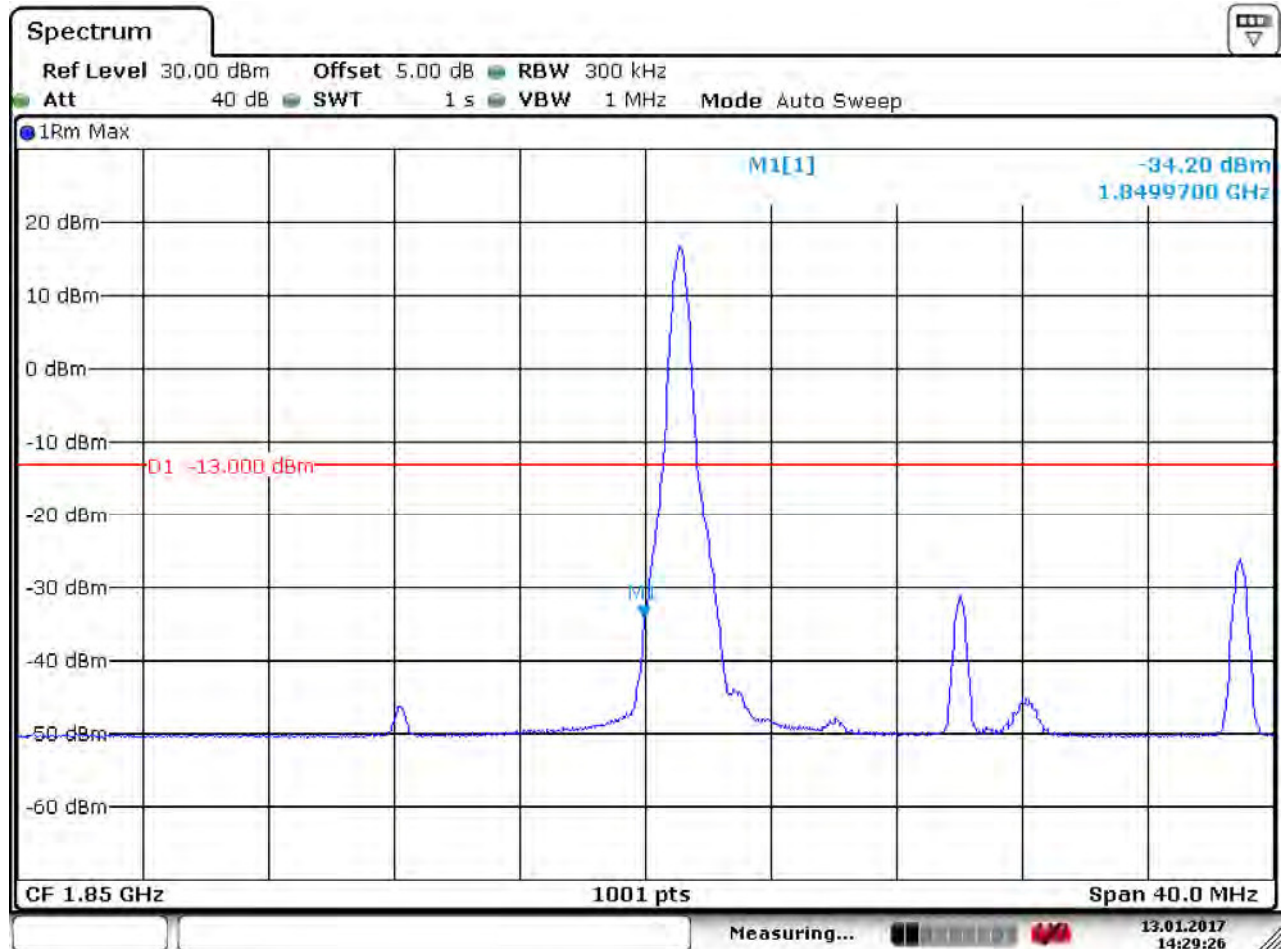
Date: 13.JAN.2017 14:32:52



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: 13.JAN.2017 14:29:26



5.1.1.17.1.2 Test RB=100RB

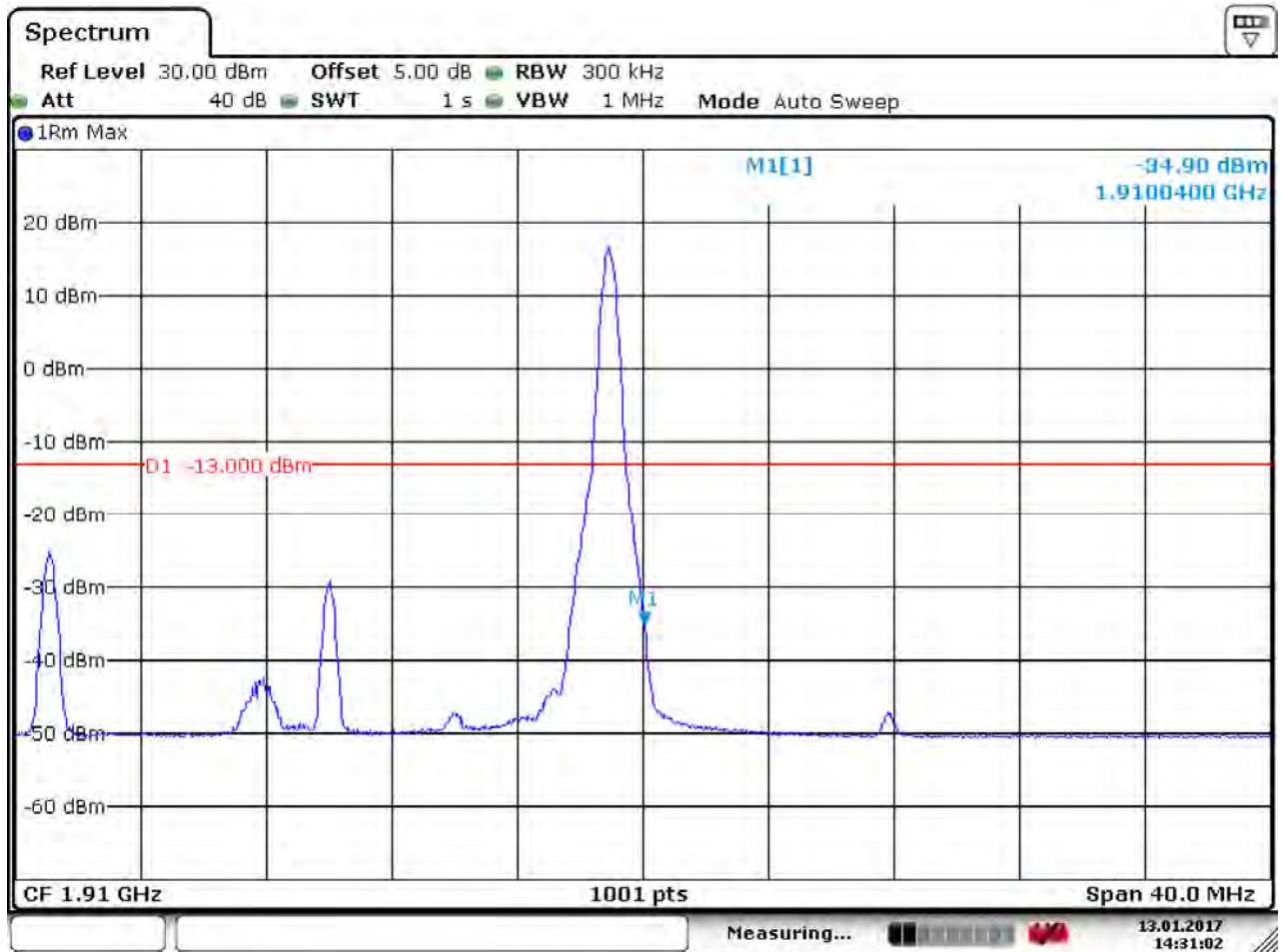


Date: 13.JAN.2017 14:28:54



5.1.1.17.2 Test Channel = HCH

5.1.1.17.2.1 Test RB=1RB



Date: 13.JAN.2017 14:31:02



5.1.1.17.2.2 Test RB=100RB



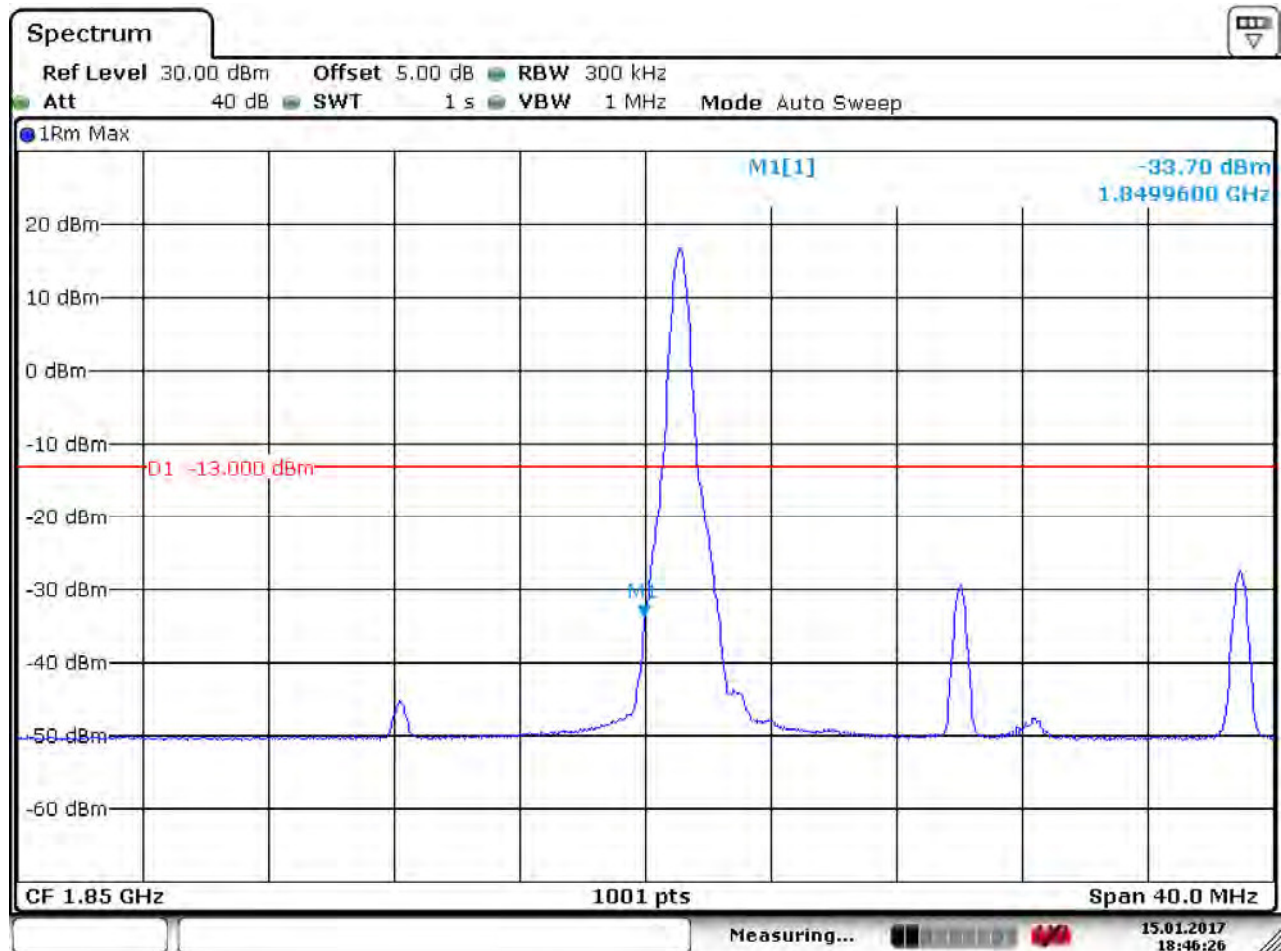
Date: 13.JAN.2017 14:32:00



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: 15.JAN.2017 18:46:27



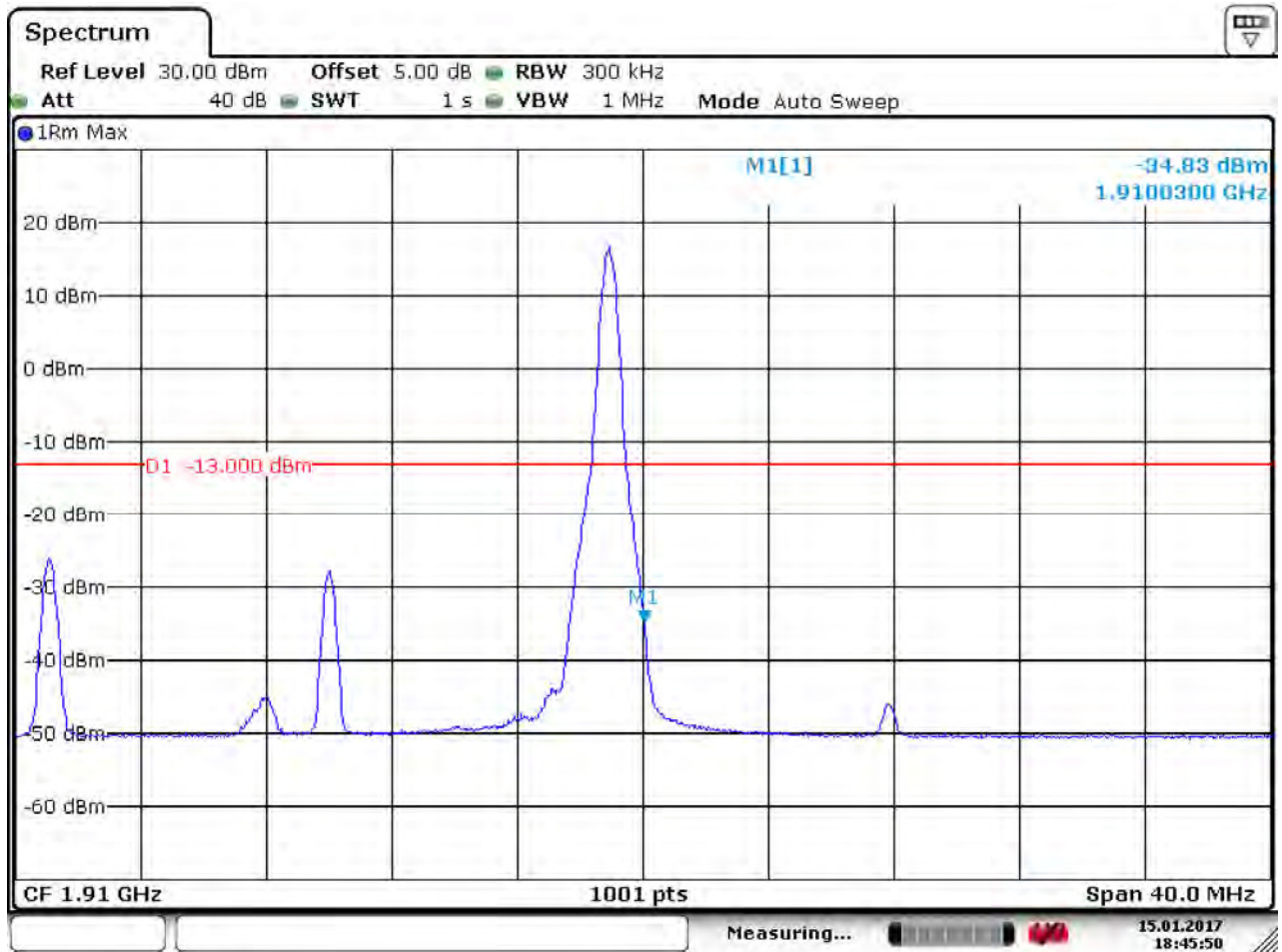
5.1.1.18.1.2 Test RB=100RB



Date: 15.JAN.2017 18:46:49

5.1.1.18.2 Test Channel = HCH

5.1.1.18.2.1 Test RB=1RB



Date: 15.JAN.2017 18:45:50



5.1.1.18.2.2 Test RB=100RB



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



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.

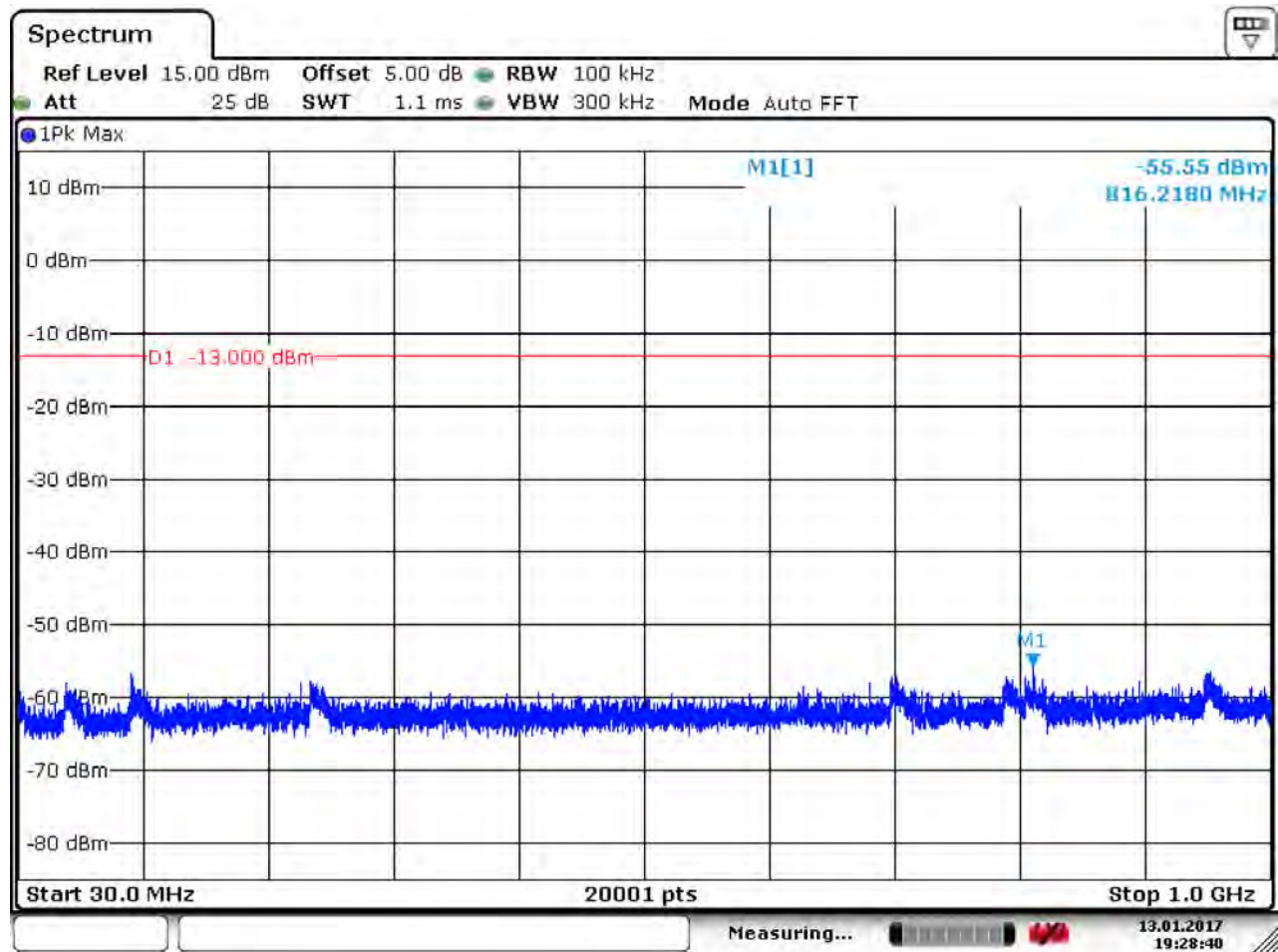
Part I - Test Plots

6.1 For LTE

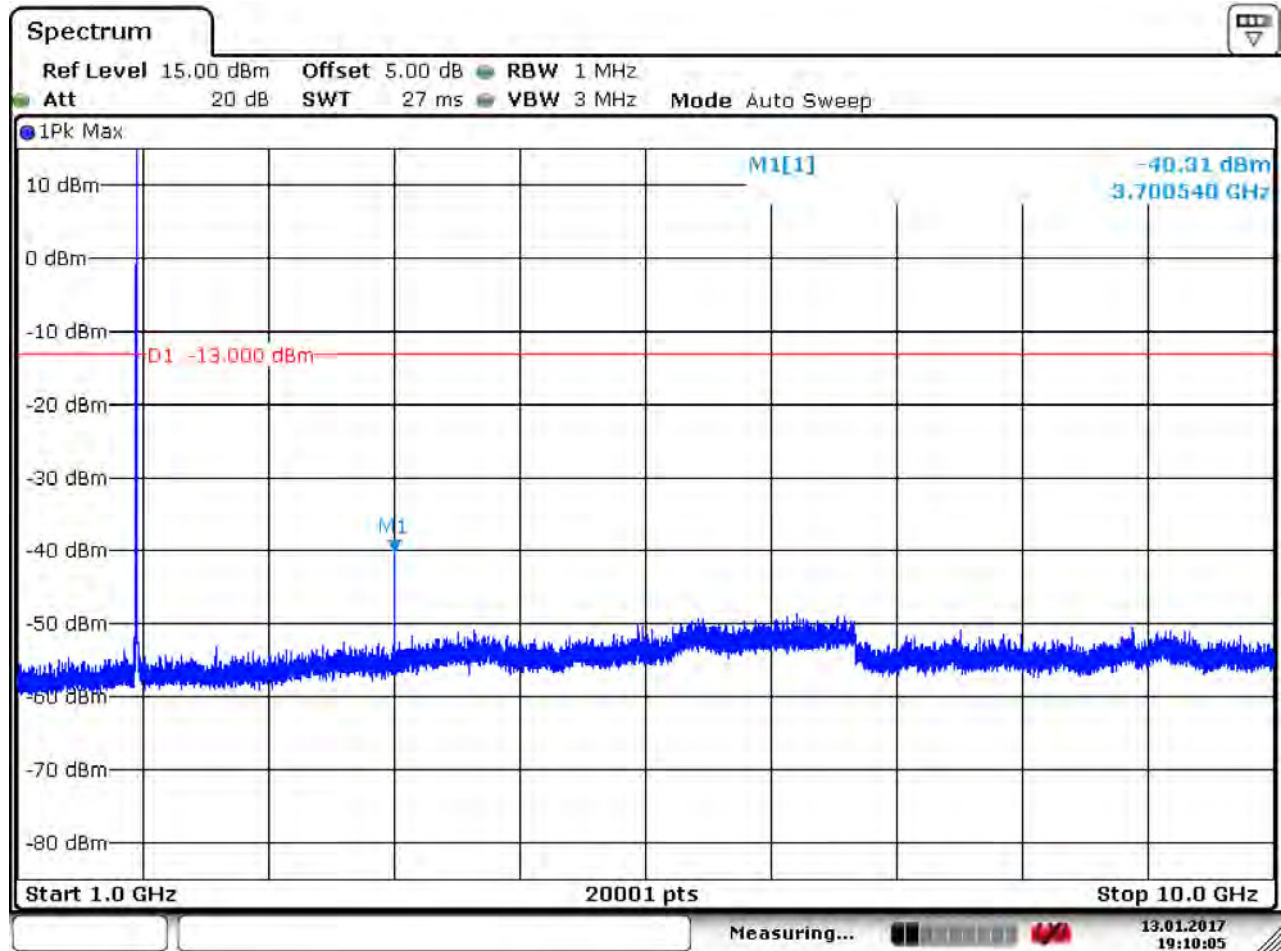
6.1.1 Test Band = LTE band2

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

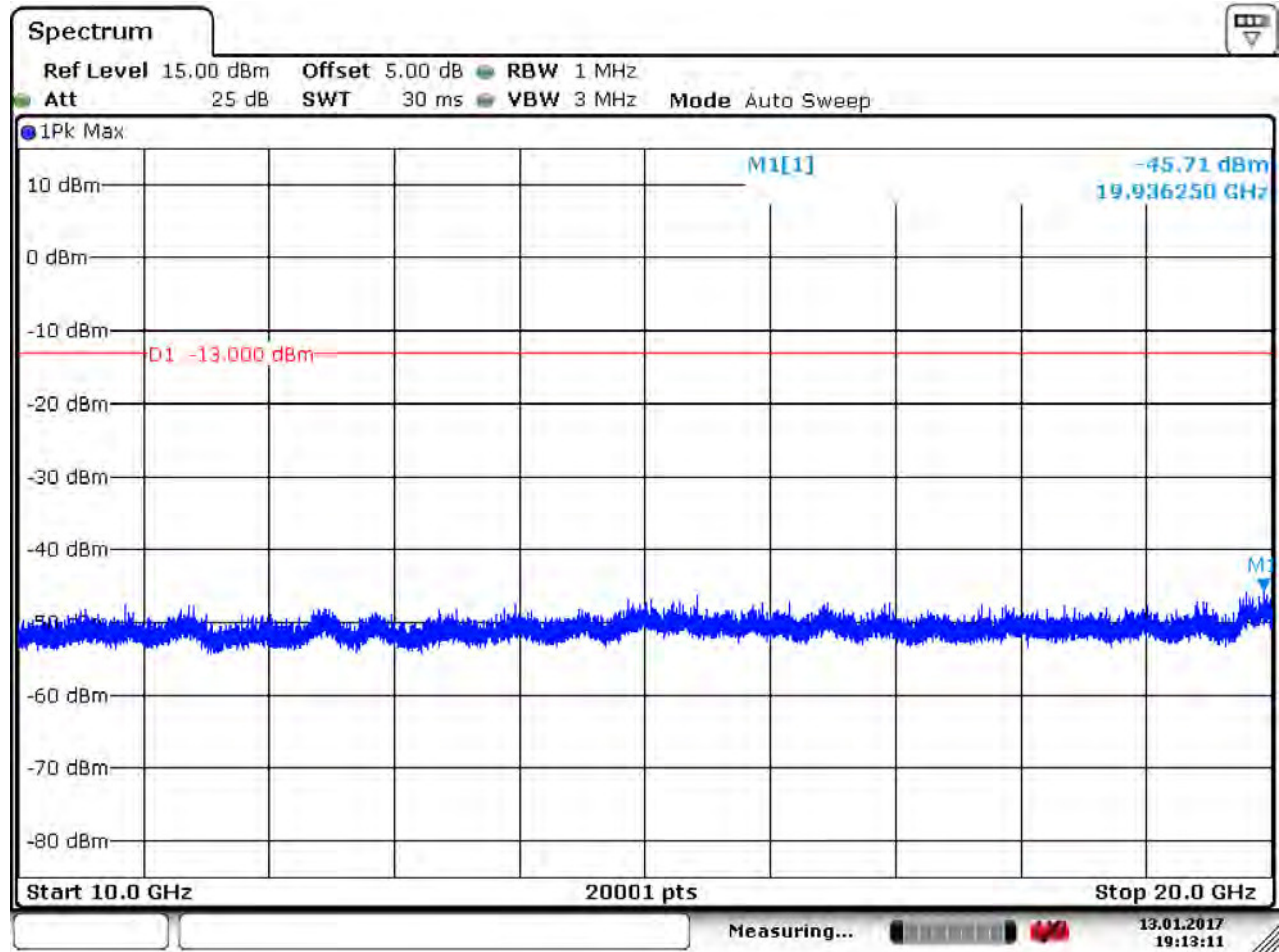
6.1.1.1.1 Test Channel = LCH



Date: 13.JAN.2017 19:28:40



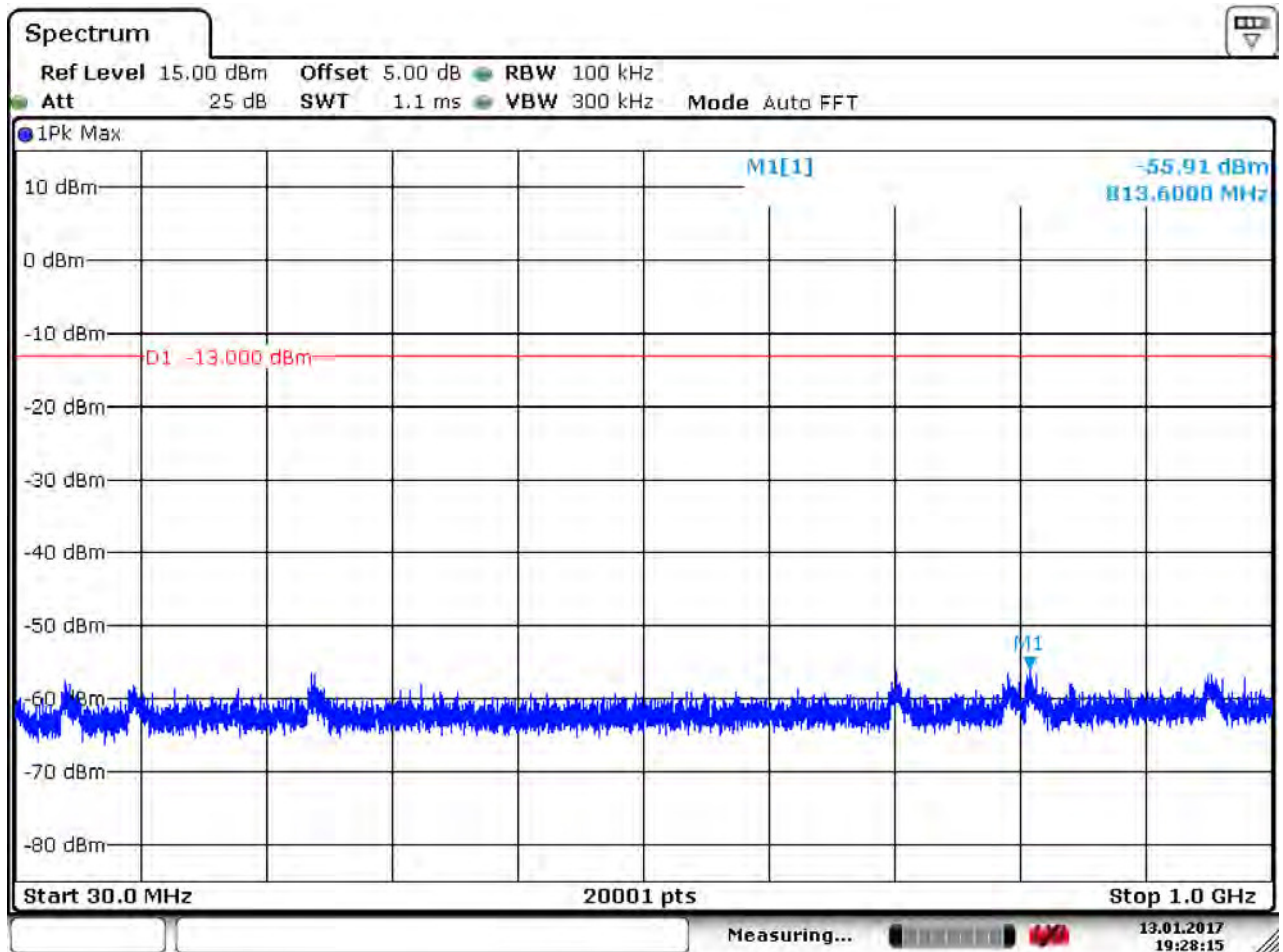
Date: 13.JAN.2017 19:10:05



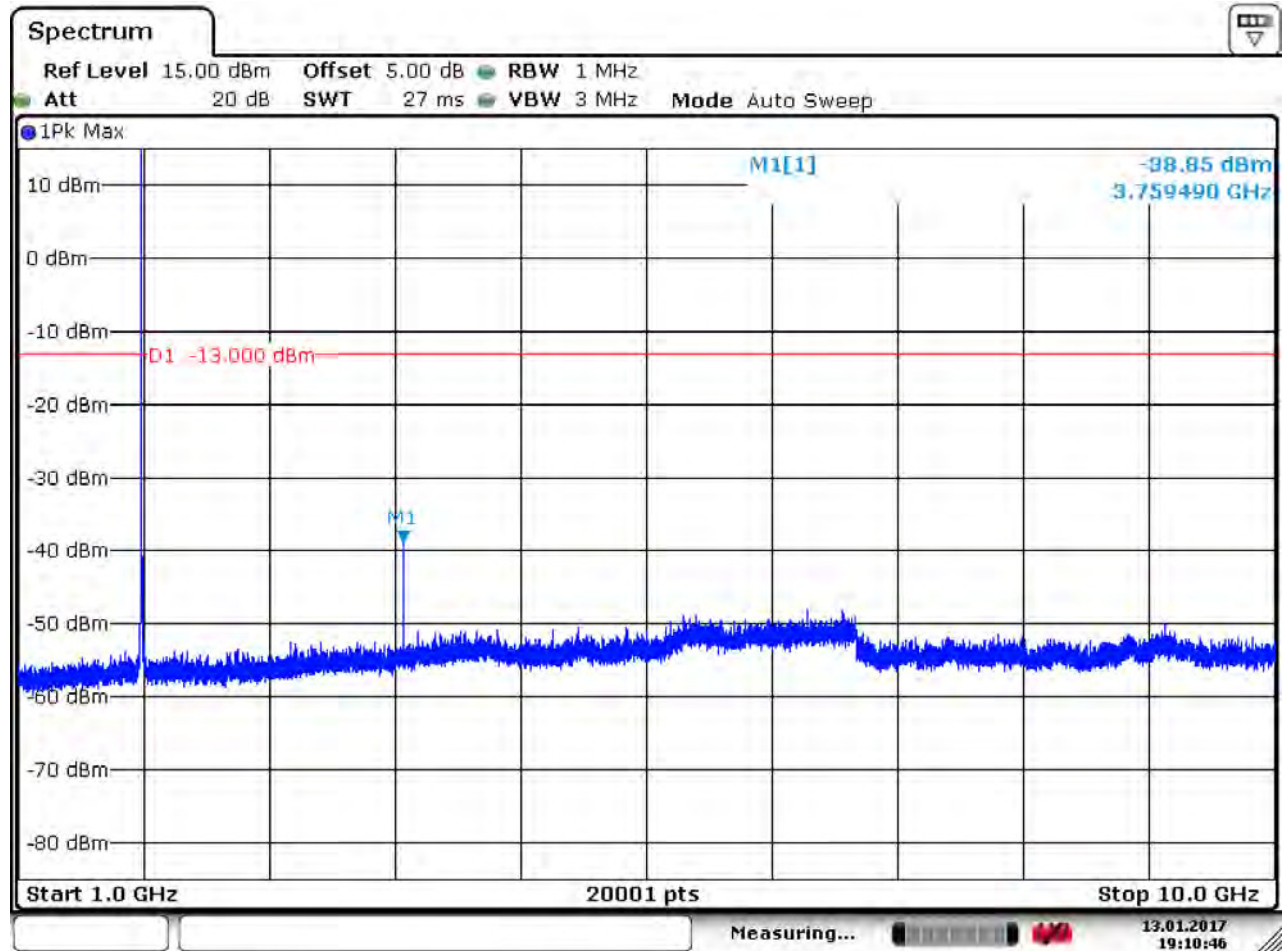
Date: 13.JAN.2017 19:13:11



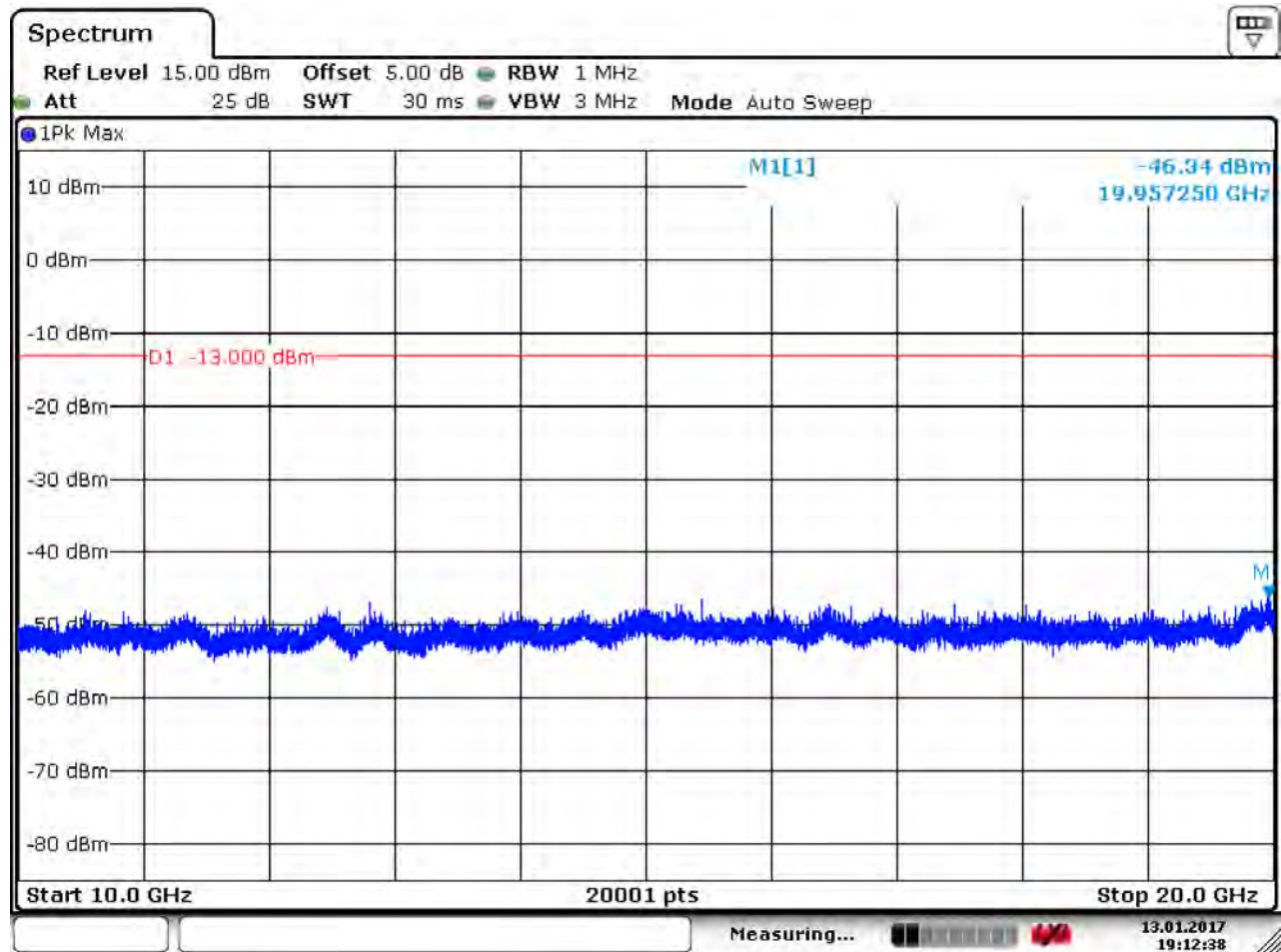
6.1.1.1.2 Test Channel = MCH



Date: 13.JAN.2017 19:28:16



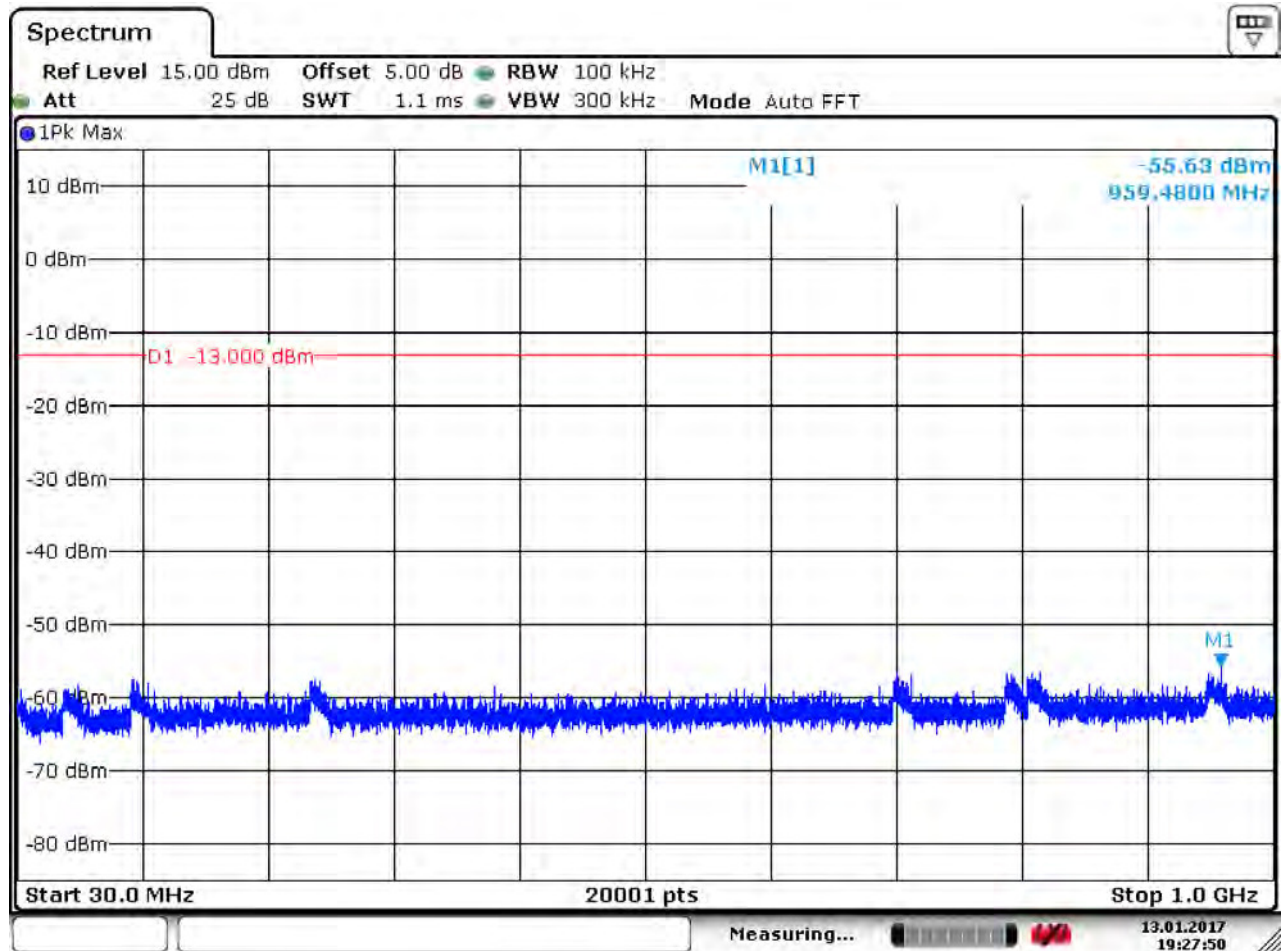
Date: 13.JAN.2017 19:10:46



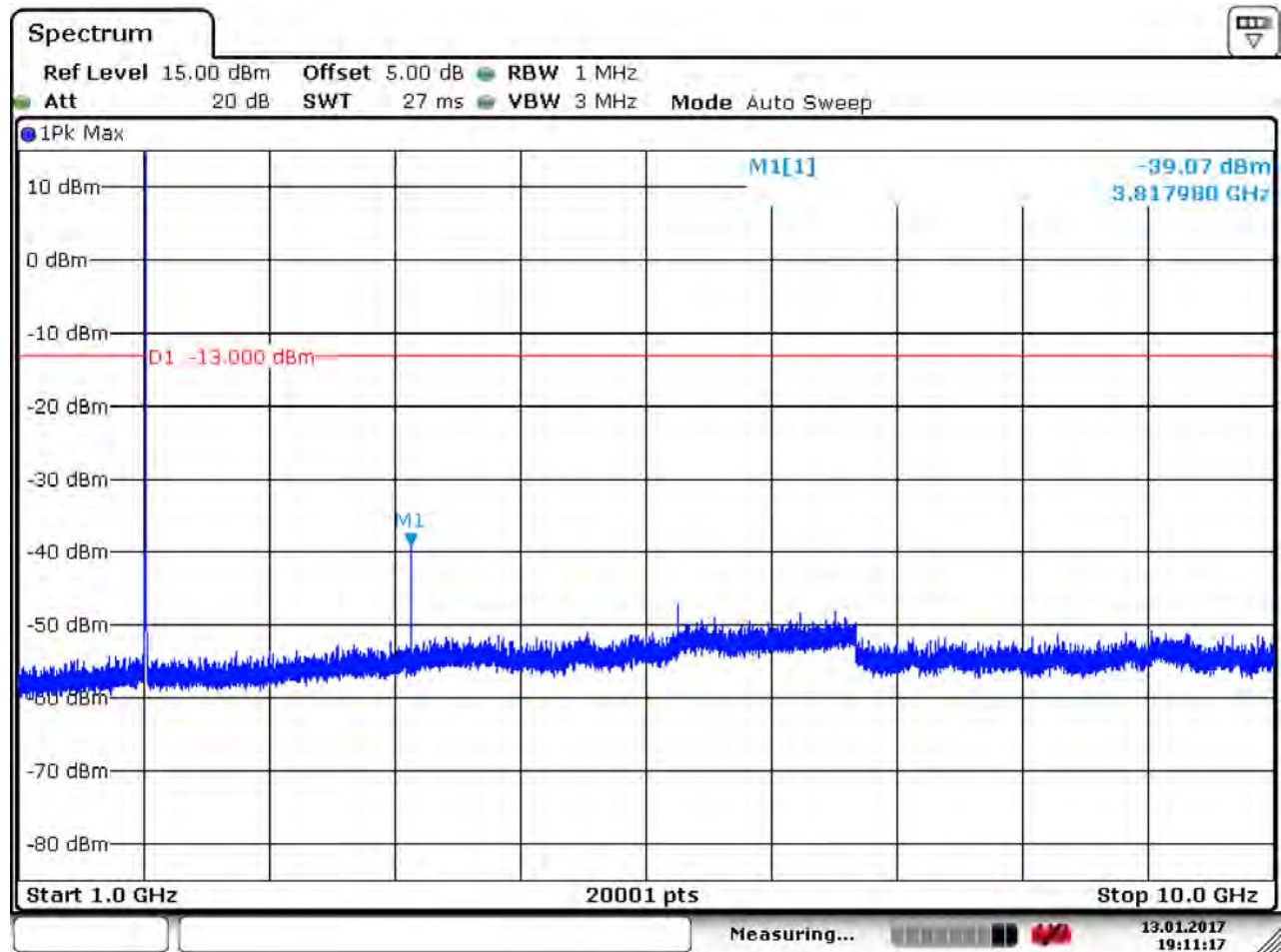
Date: 13.JAN.2017 19:12:38



6.1.1.1.3 Test Channel = HCH



Date: 13.JAN.2017 19:27:51



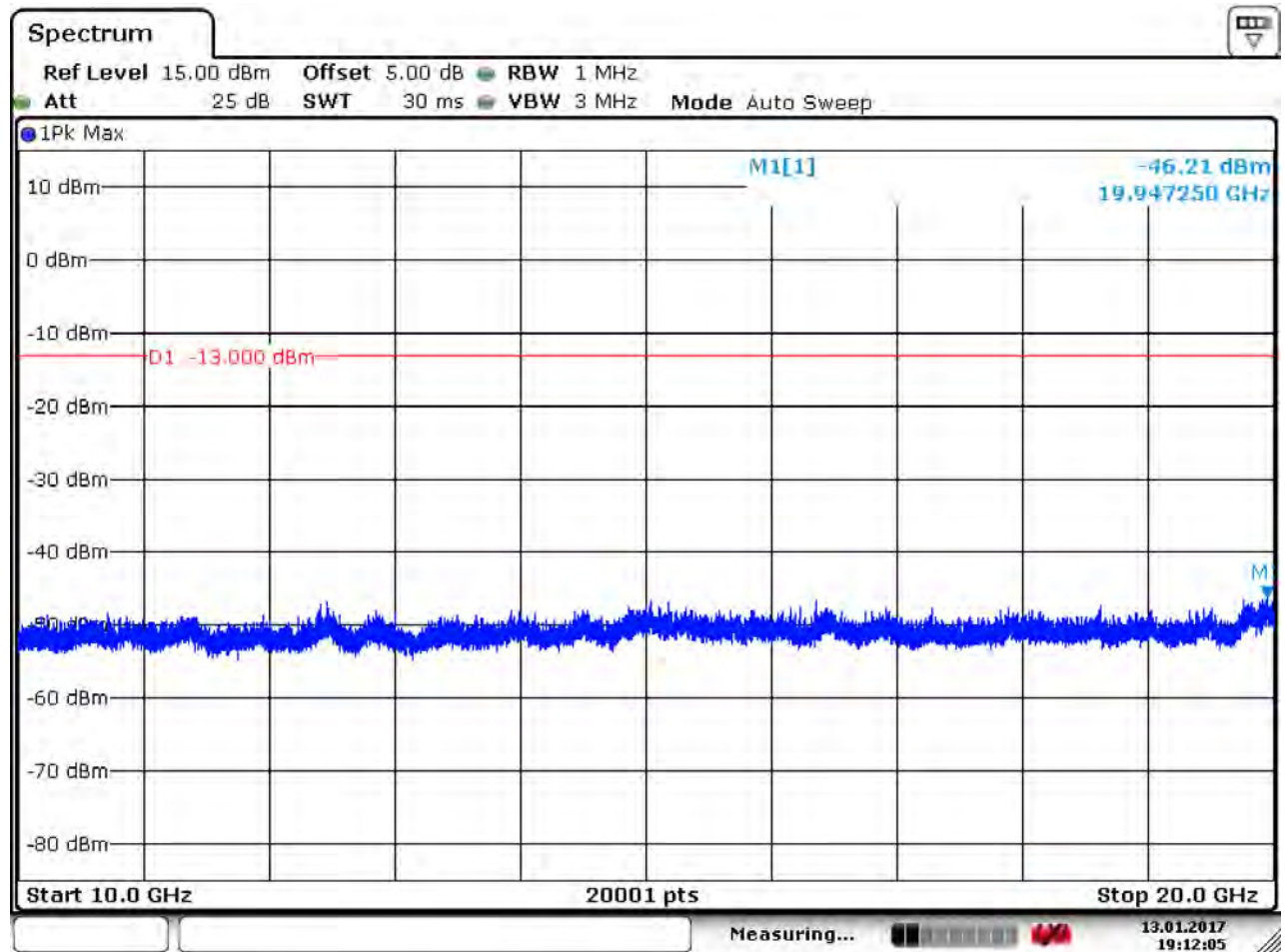
Date: 13.JAN.2017 19:11:17



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Report No.: SZEM170100023101

Page: 185 of 235



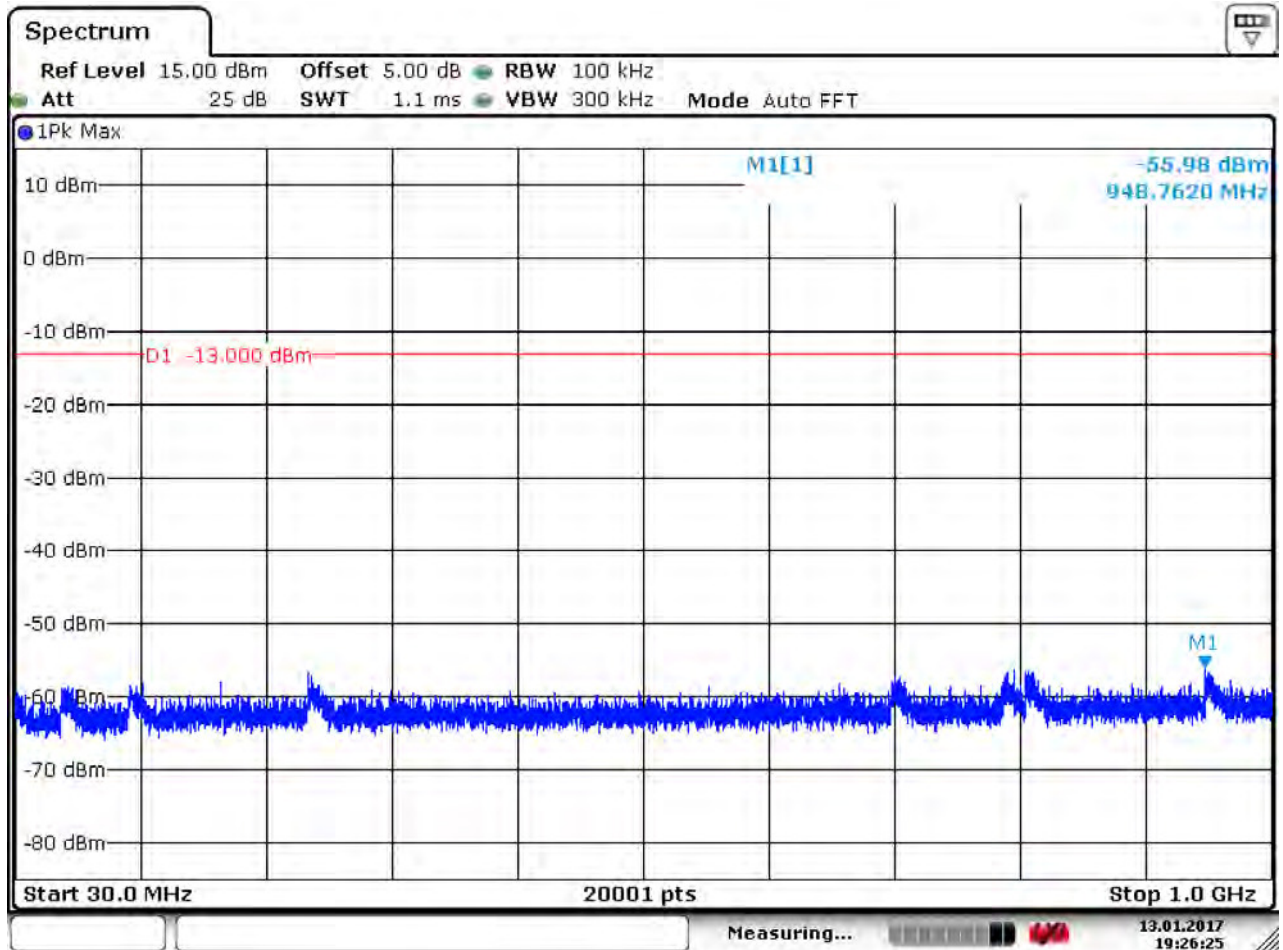
Date: 13.JAN.2017 19:12:05

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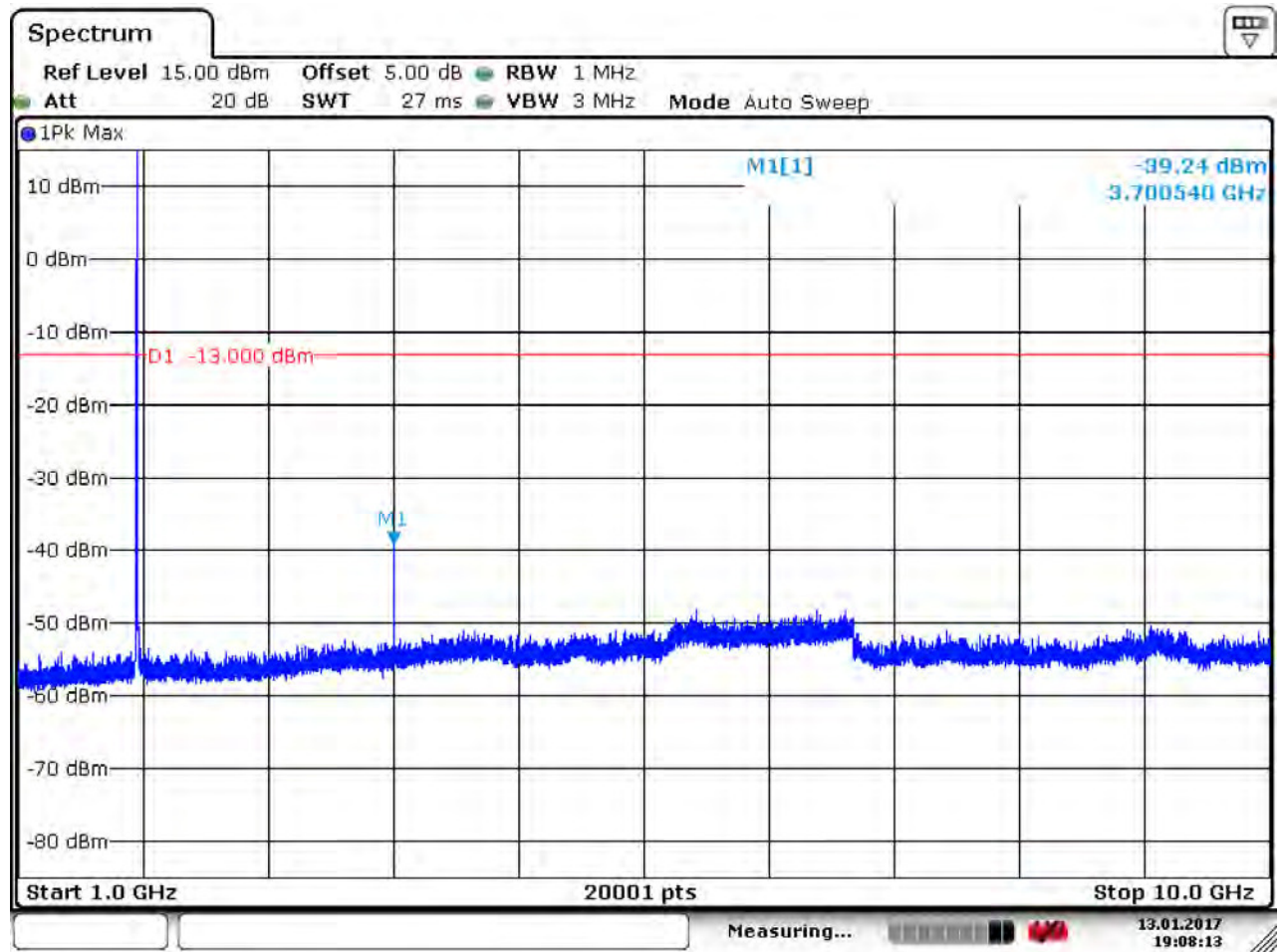


6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

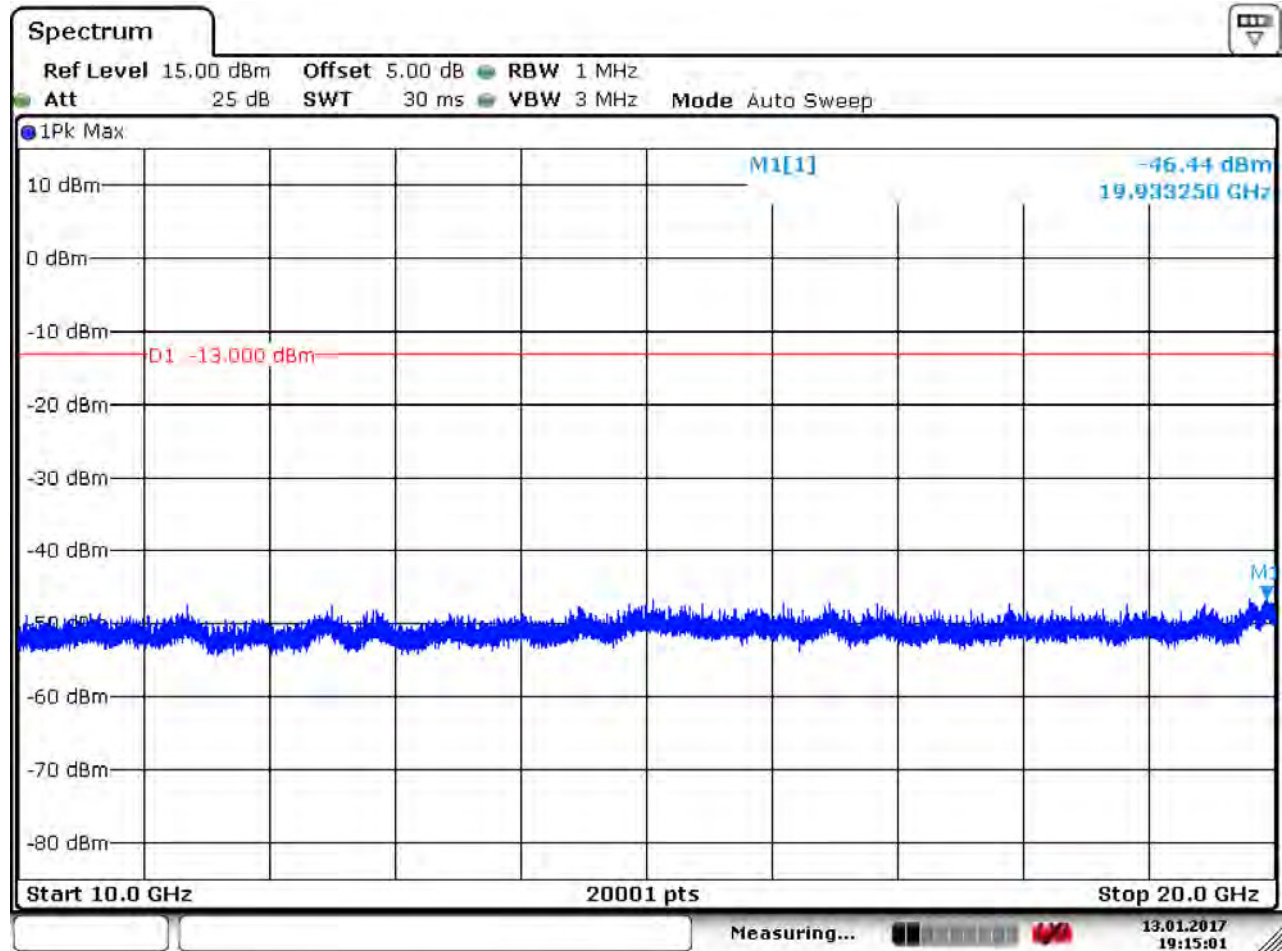
6.1.1.2.1 Test Channel = LCH



Date: 13.JAN.2017 19:26:26



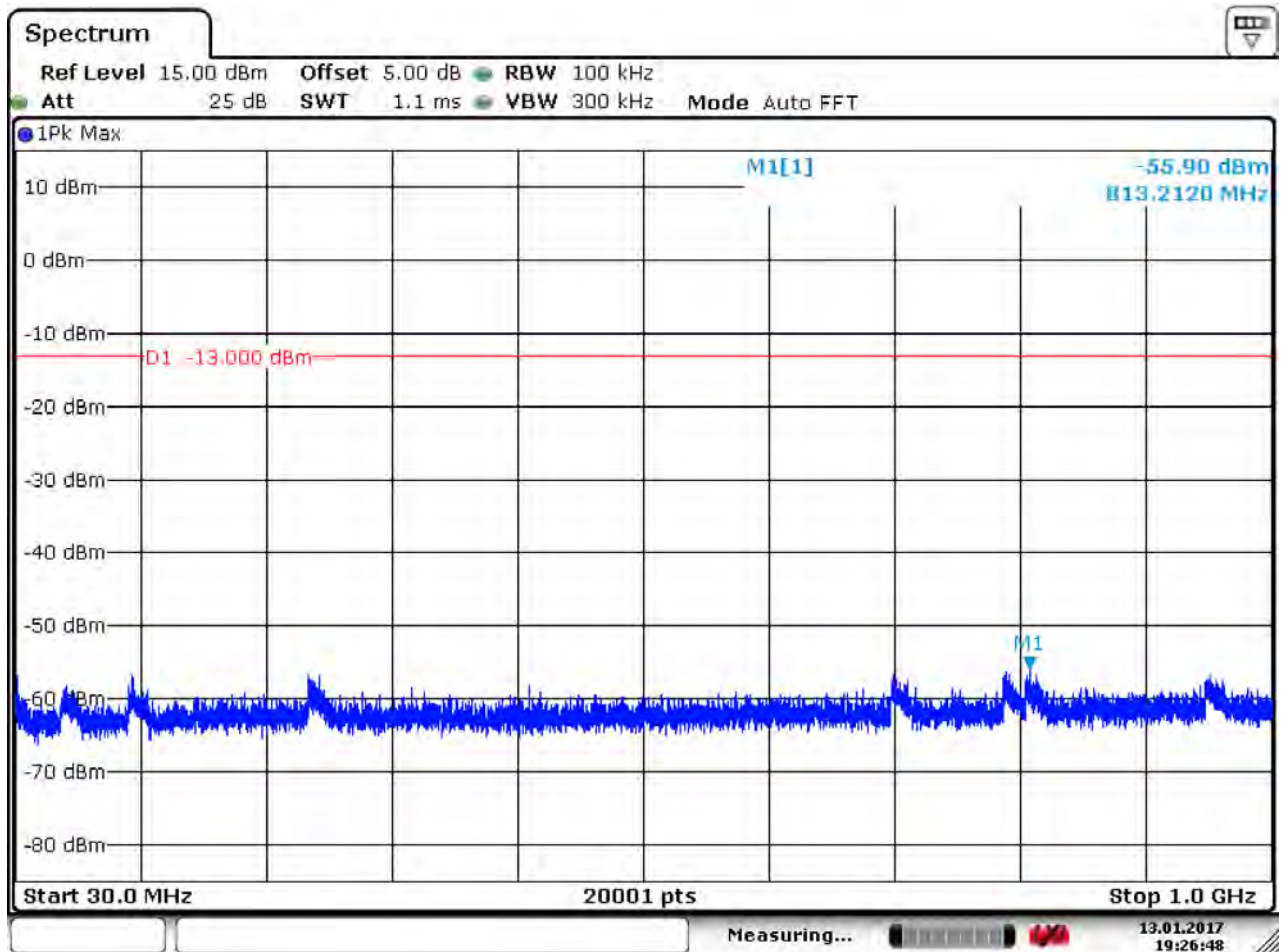
Date: 13.JAN.2017 19:08:13



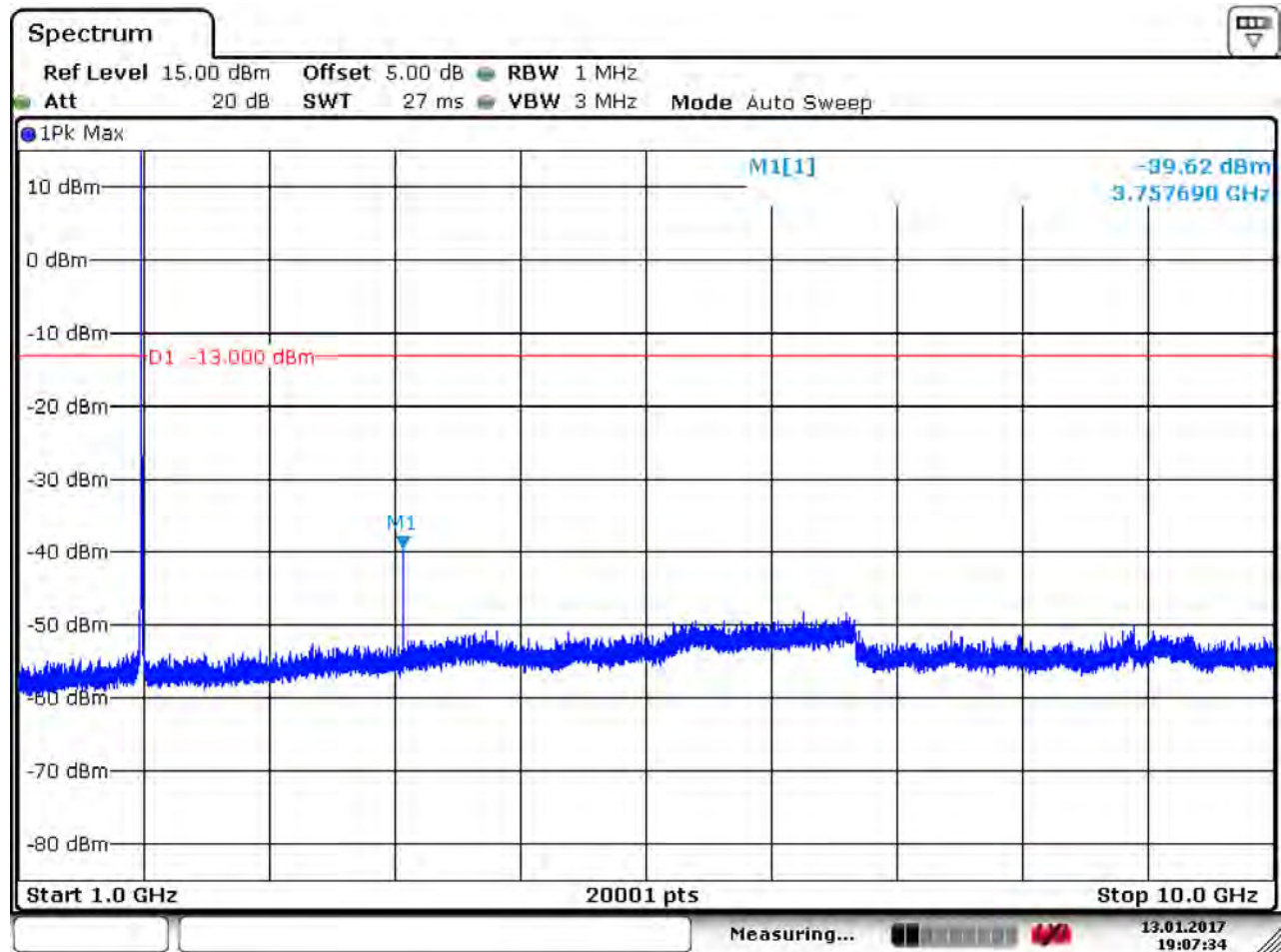
Date: 13.JAN.2017 19:15:01



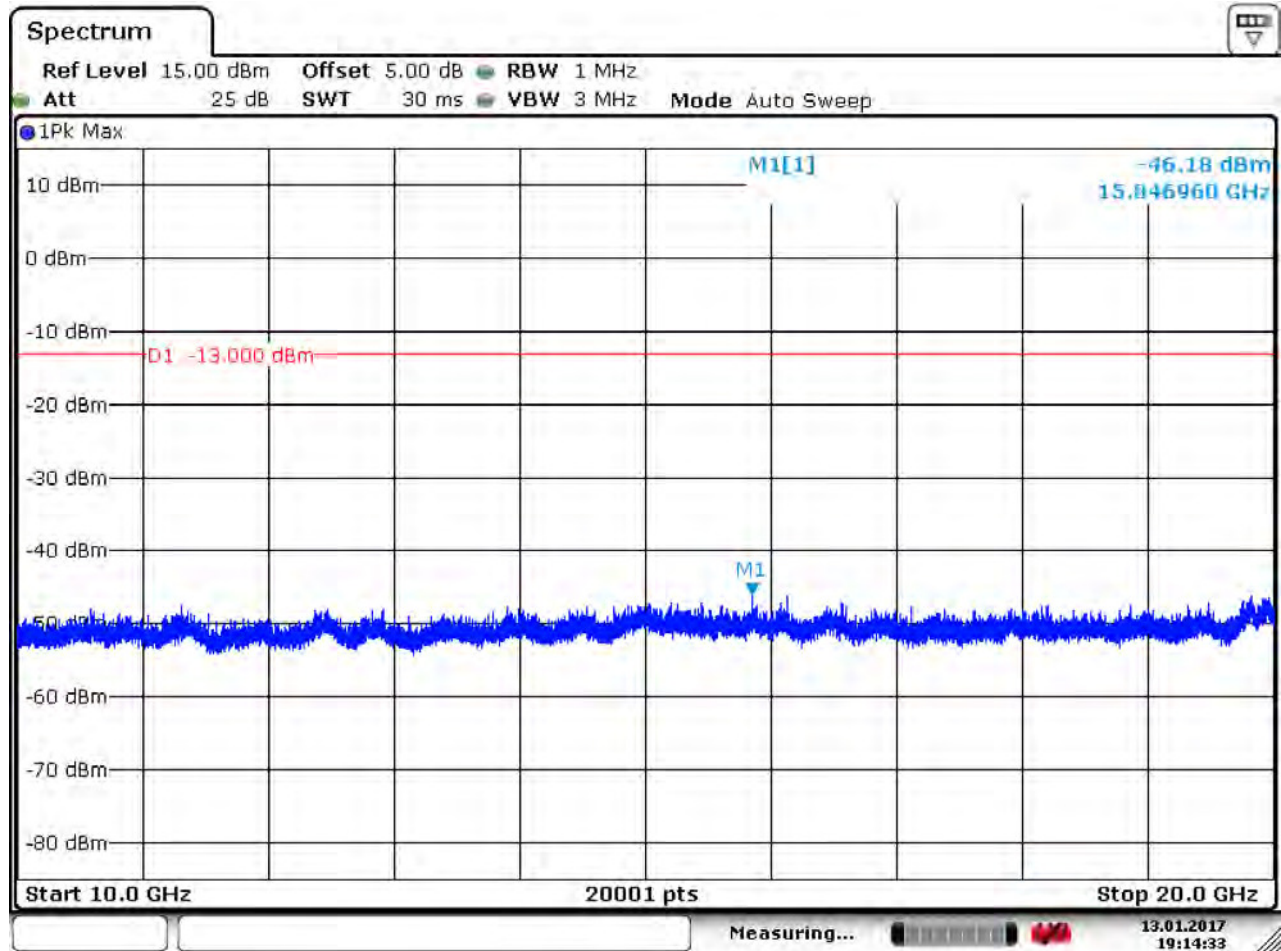
6.1.1.2.2 Test Channel = MCH



Date: 13.JAN.2017 19:26:48



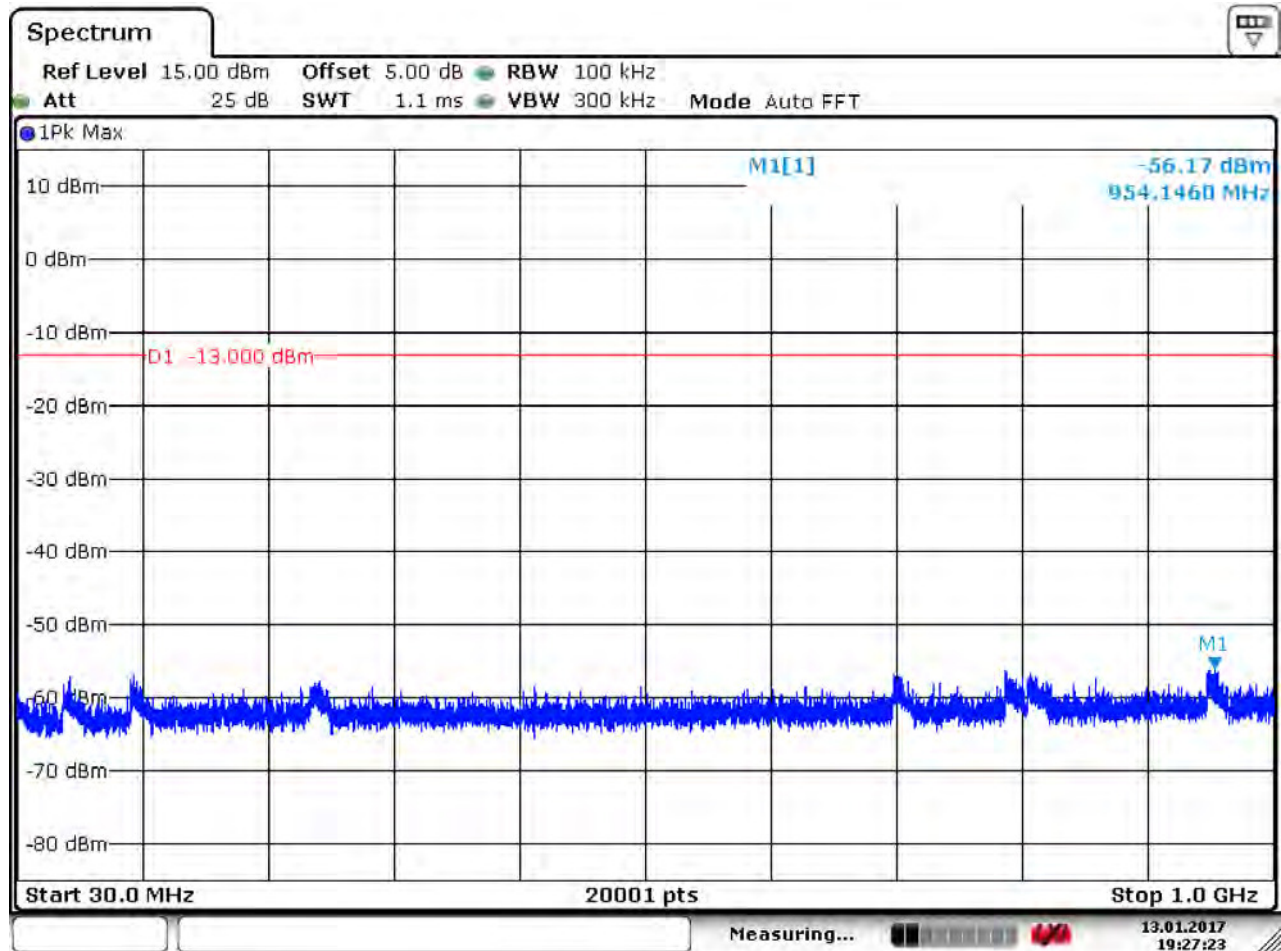
Date: 13.JAN.2017 19:07:34



Date: 13.JAN.2017 19:14:34



6.1.1.2.3 Test Channel = HCH



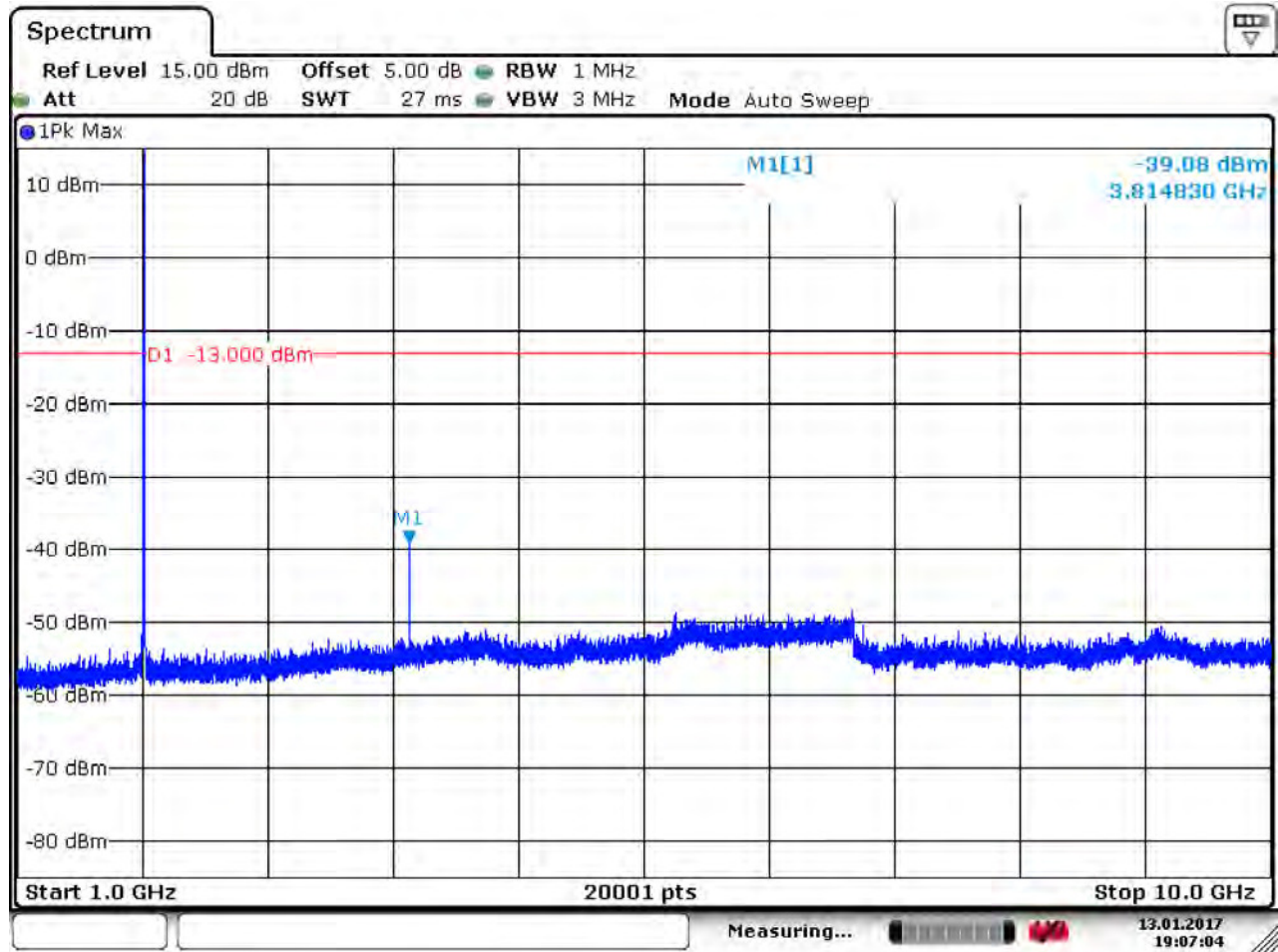
Date: 13.JAN.2017 19:27:23



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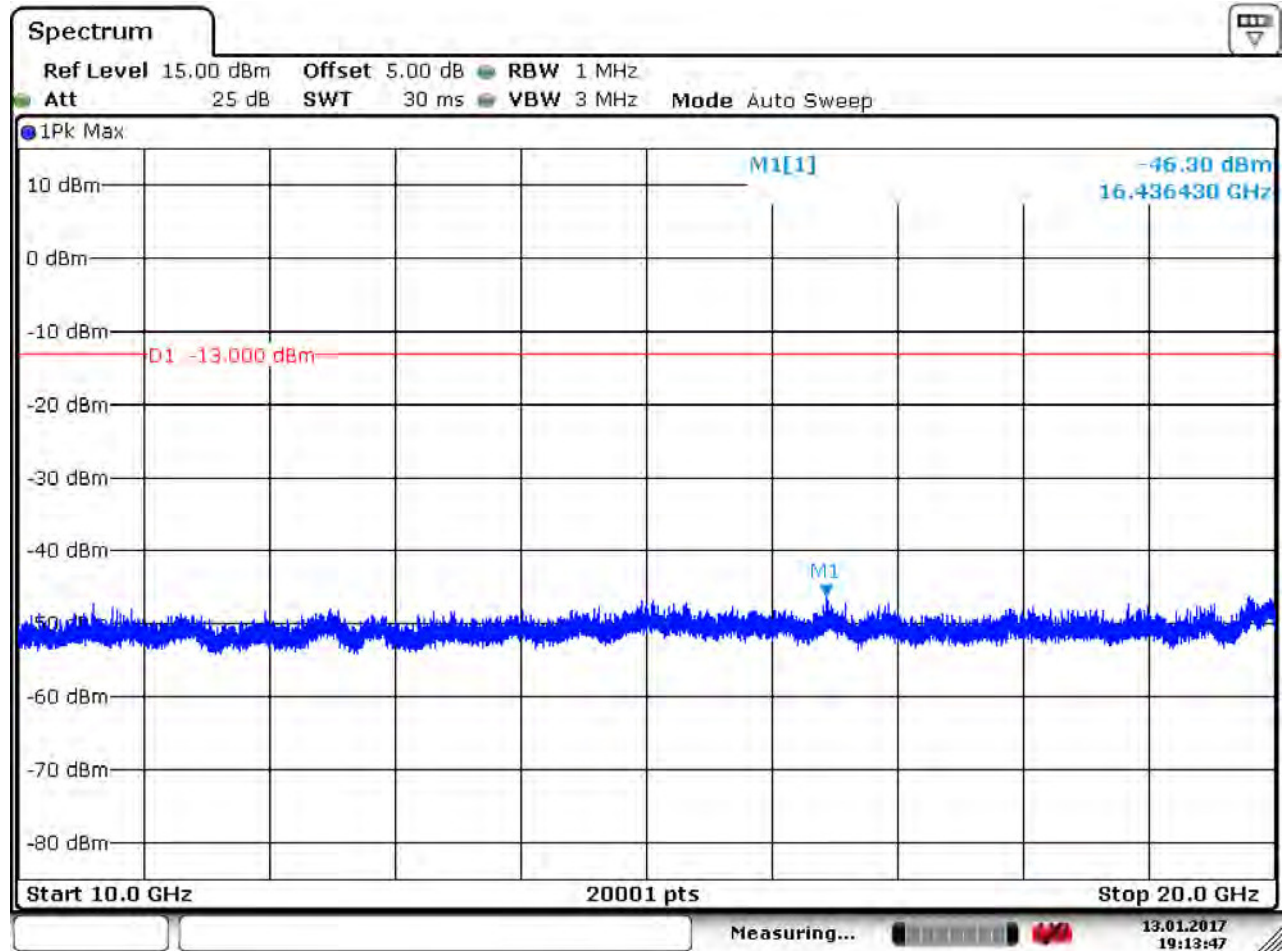
Report No.: SZEM170100023101

Page: 193 of 235



Date: 13.JAN.2017 19:07:04

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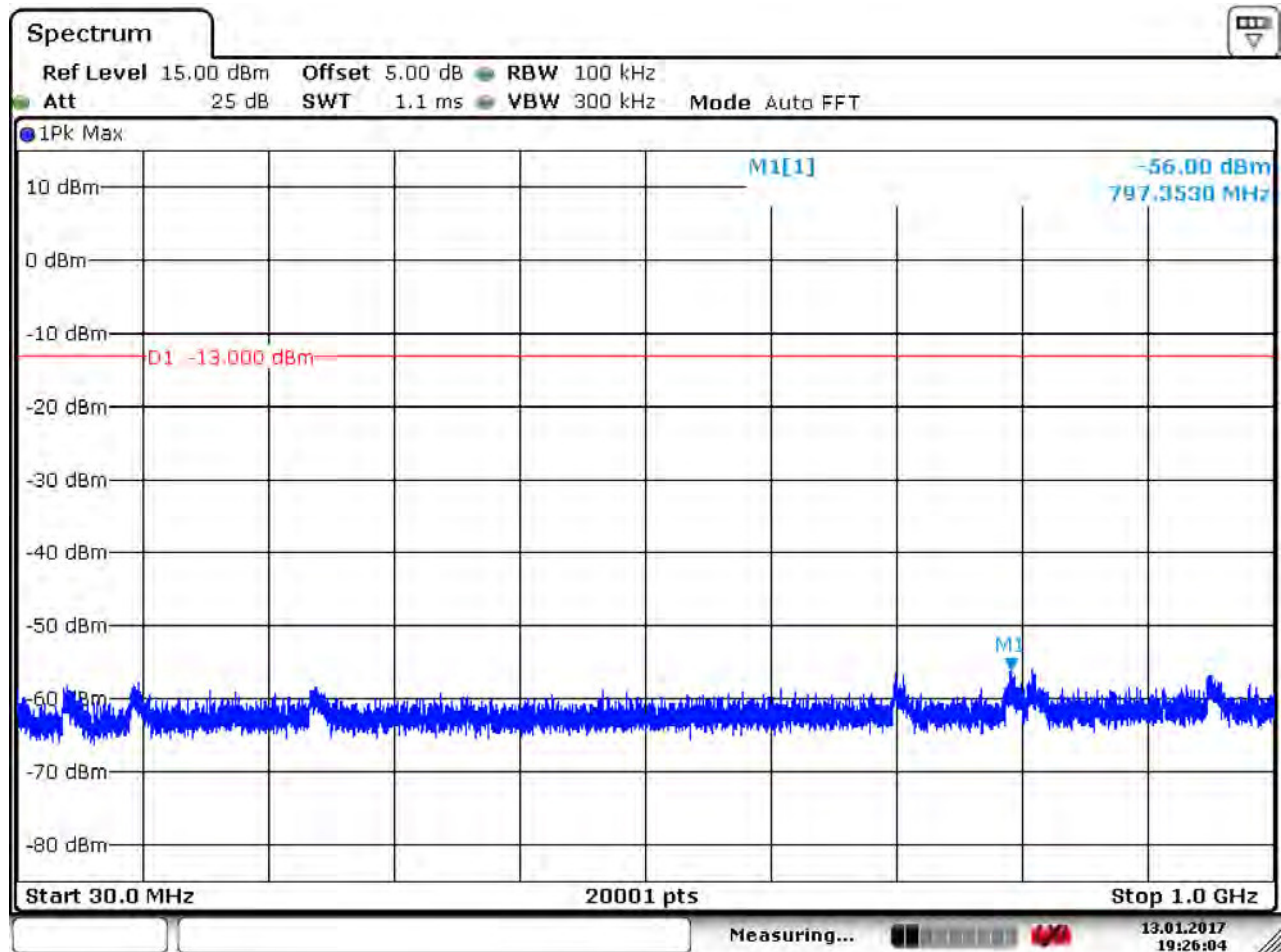


Date: 13.JAN.2017 19:13:47



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

6.1.1.3.1 Test Channel = LCH



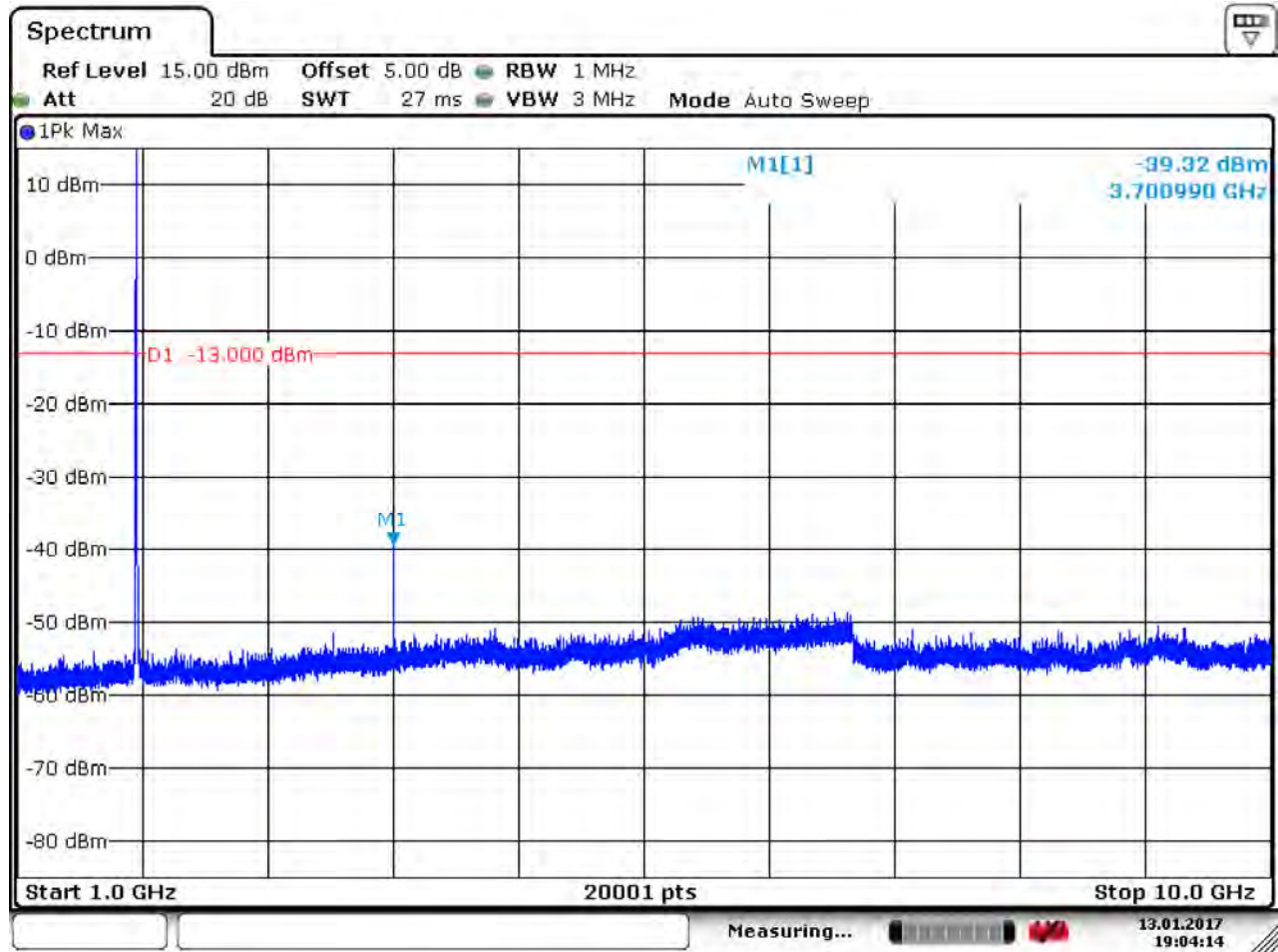
Date: 13.JAN.2017 19:26:04



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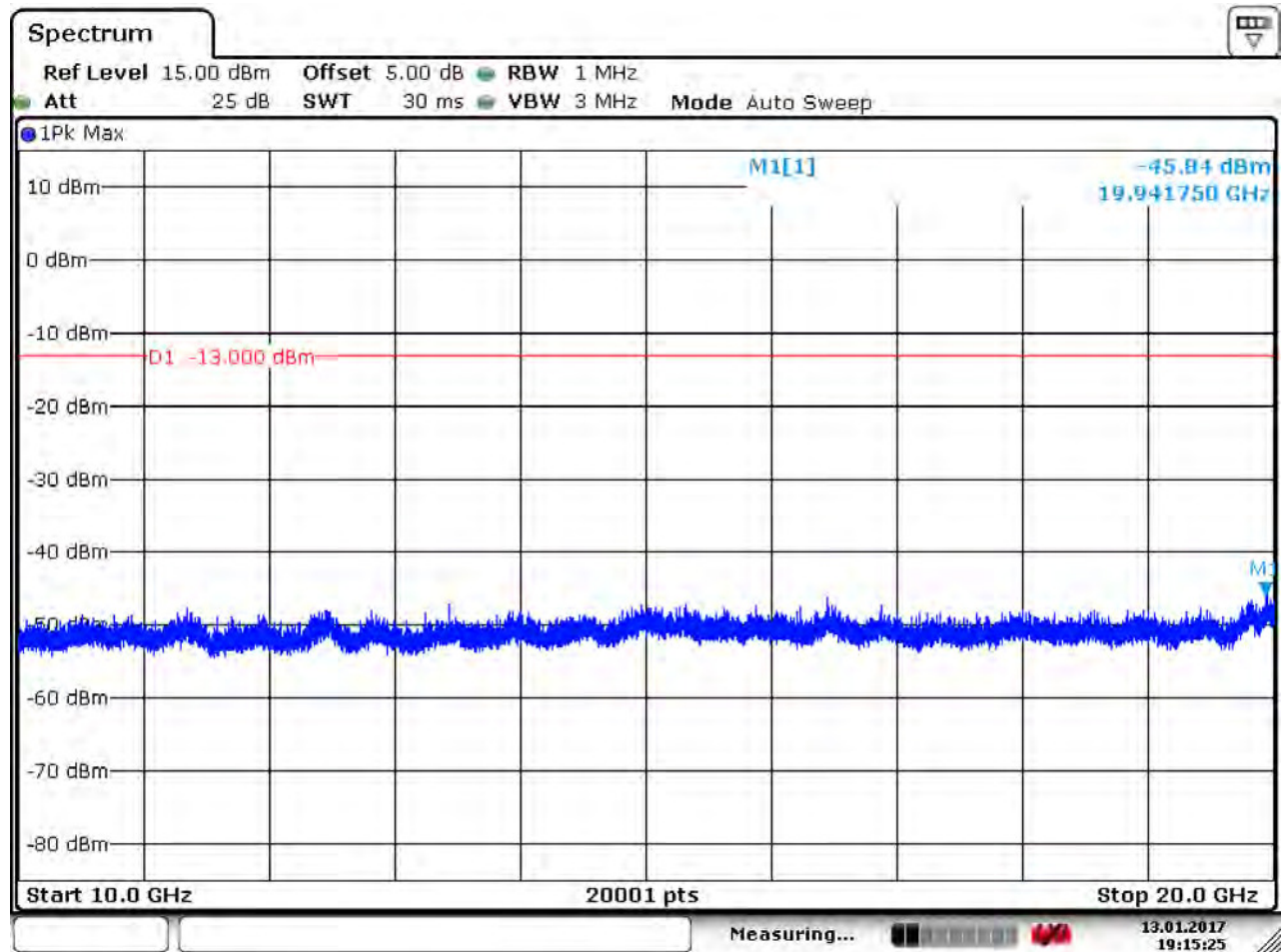
Report No.: SZEM170100023101

Page: 196 of 235



Date: 13.JAN.2017 19:04:14

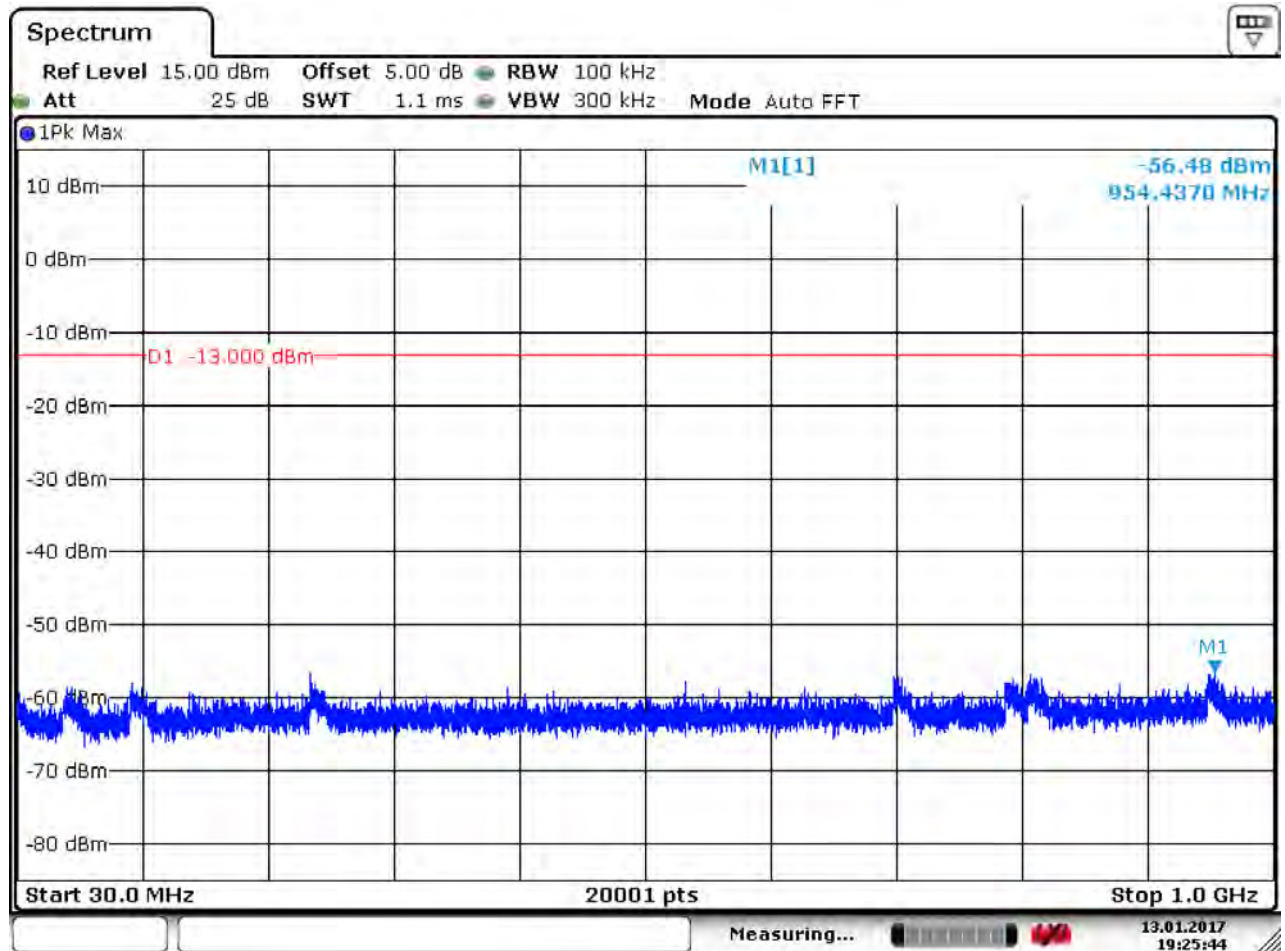
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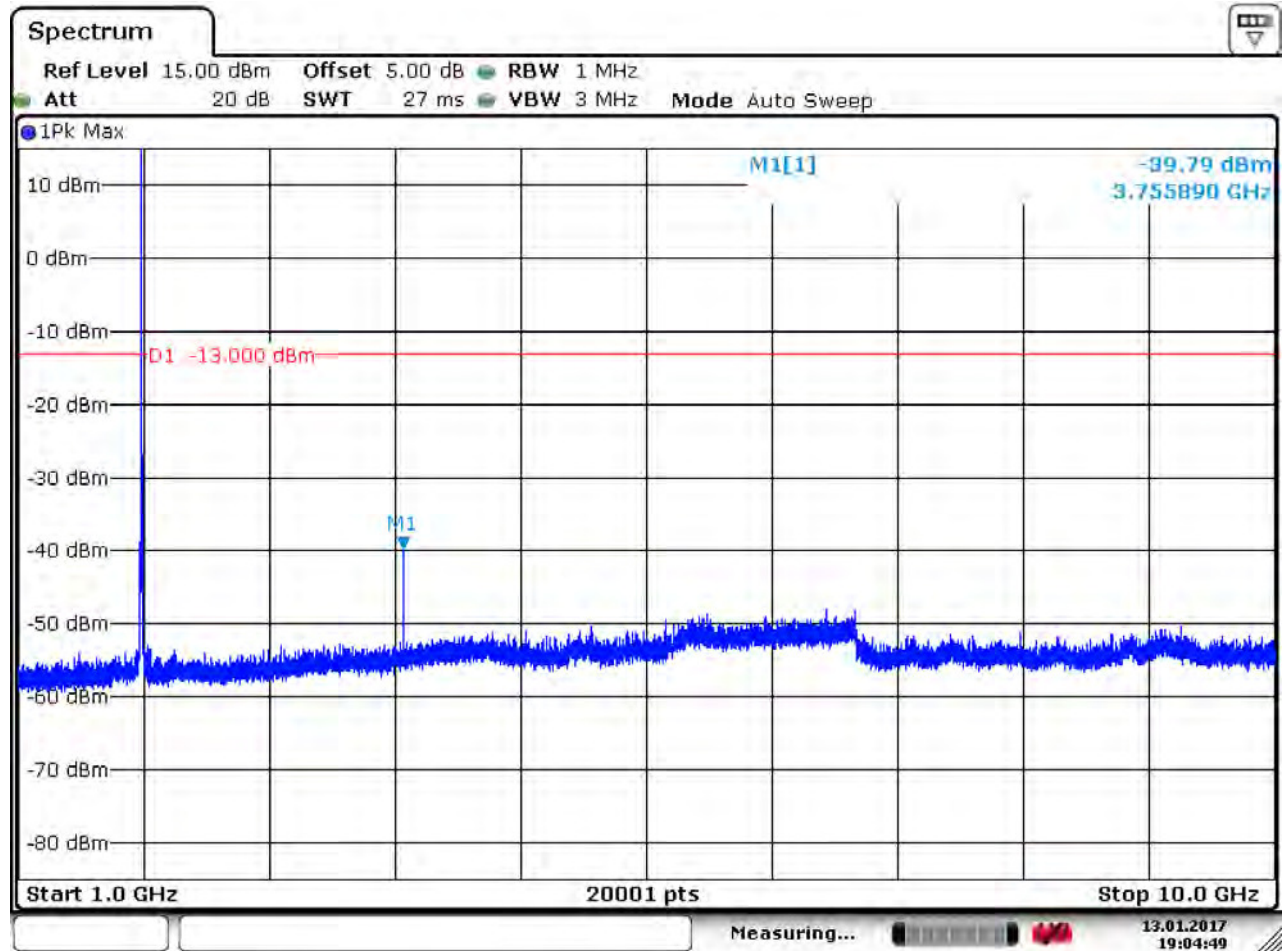
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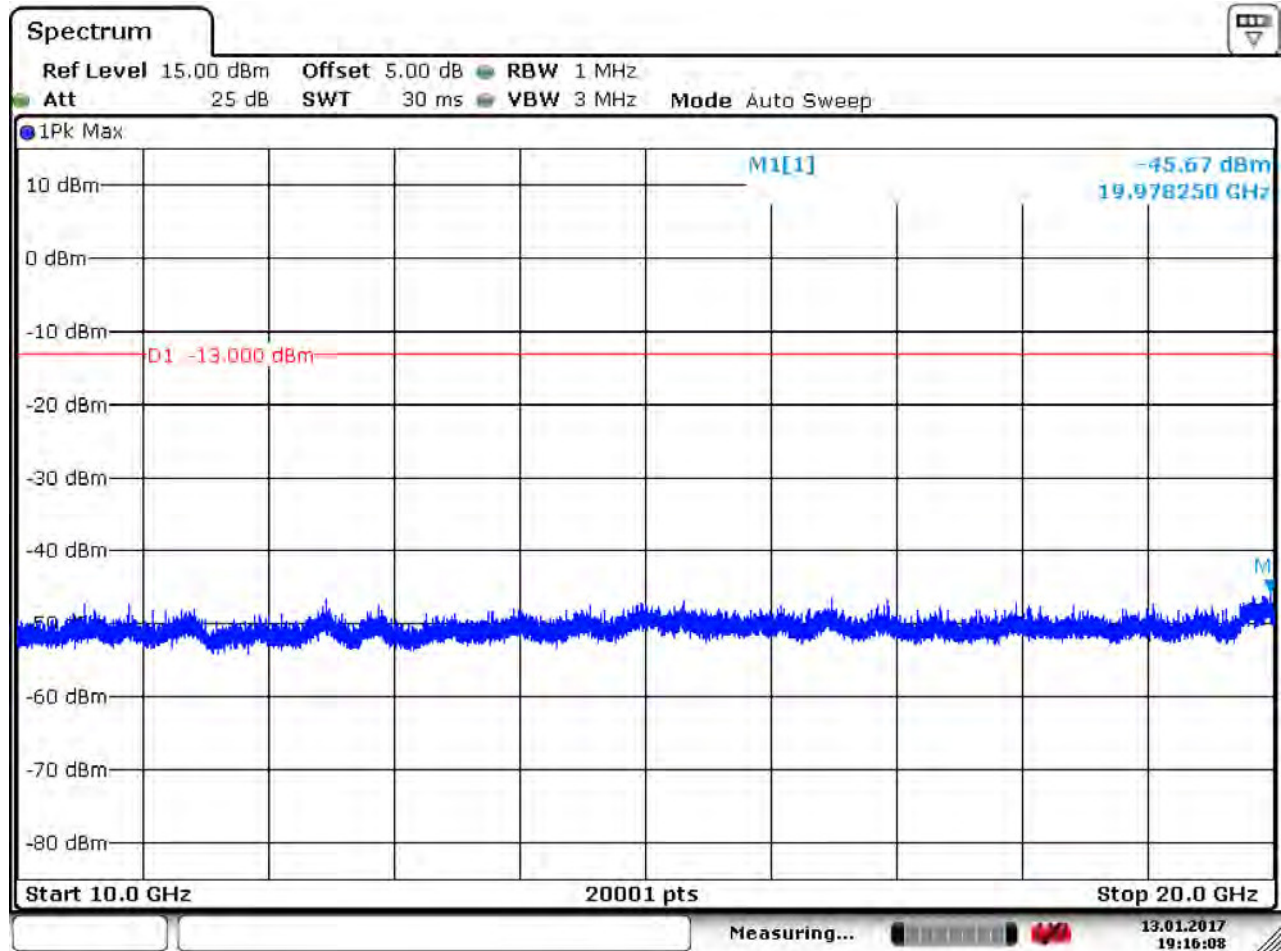
6.1.1.3.2 Test Channel = MCH



Date: 13.JAN.2017 19:25:44



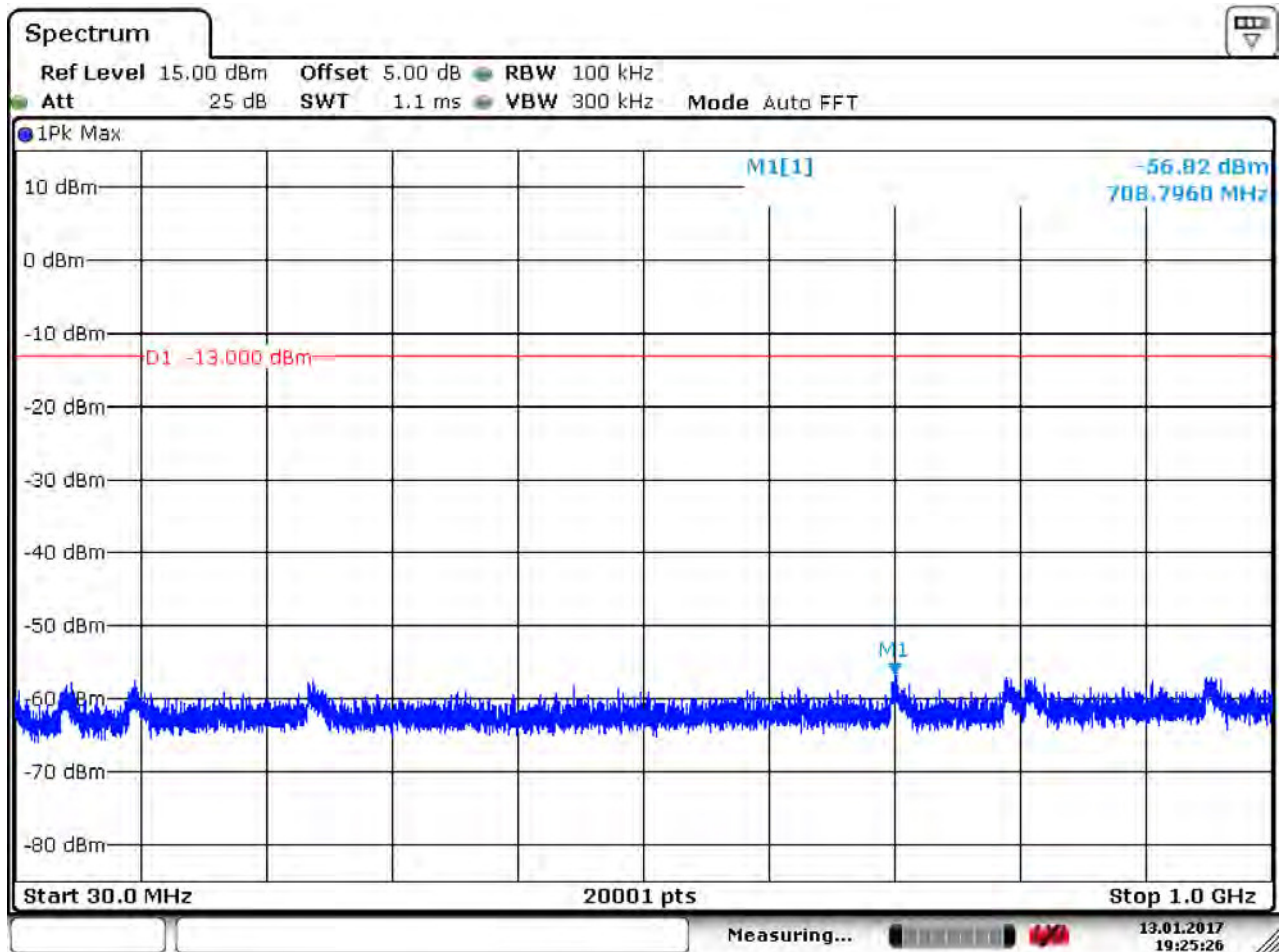
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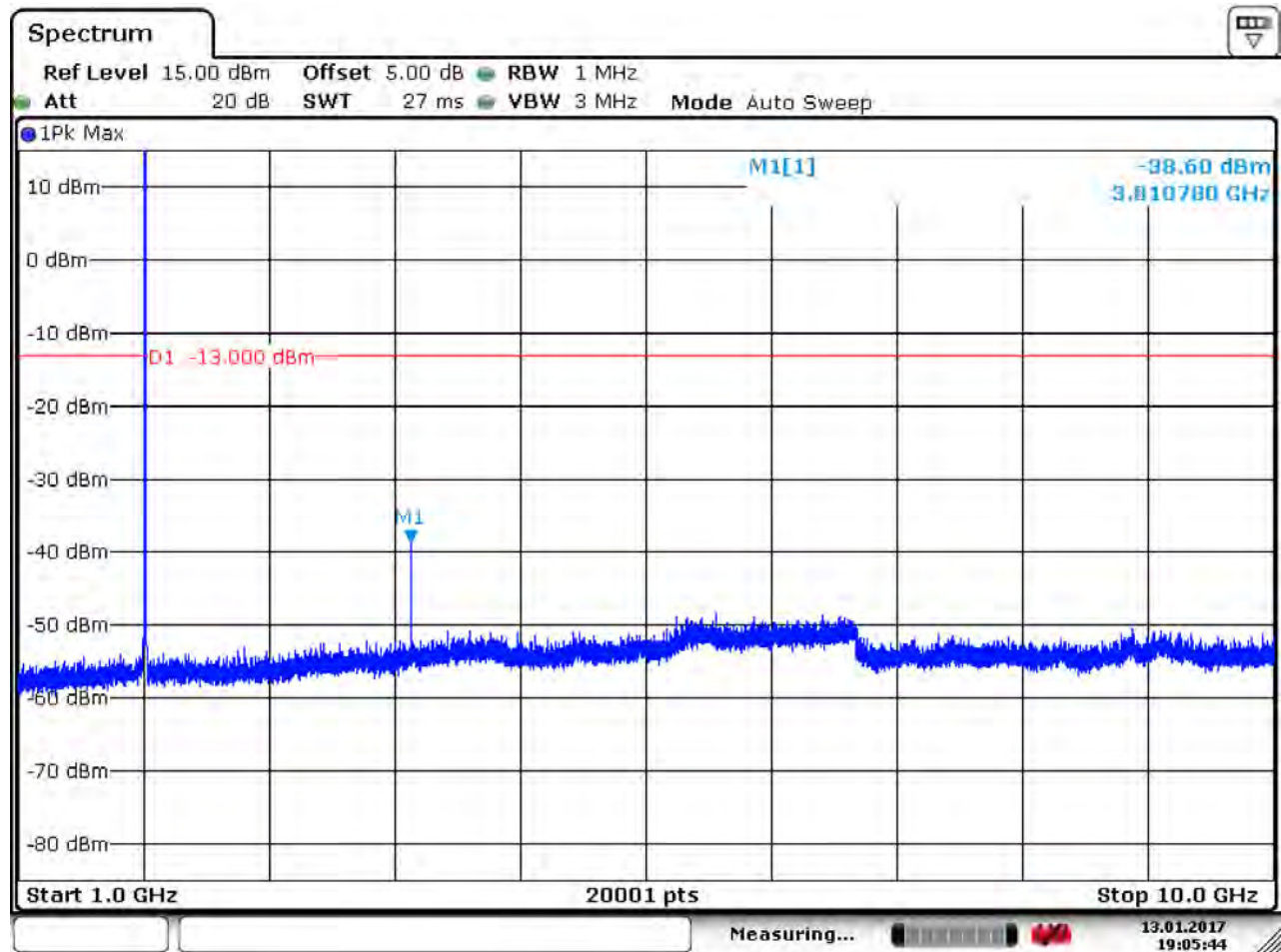
Date: 13.JAN.2017 19:16:09



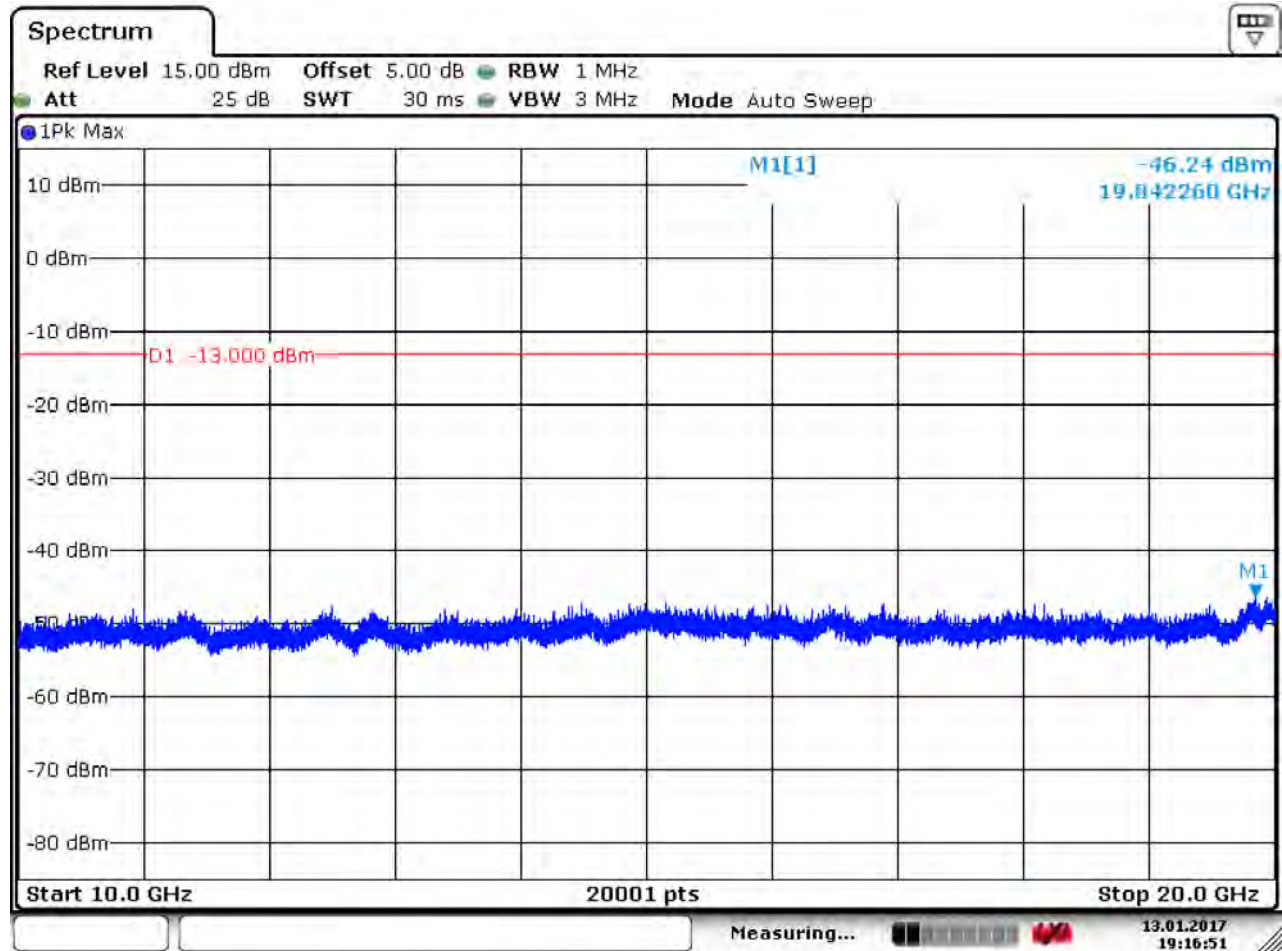
6.1.1.3.3 Test Channel = HCH



Date: 13.JAN.2017 19:25:26



Date: 13.JAN.2017 19:05:44

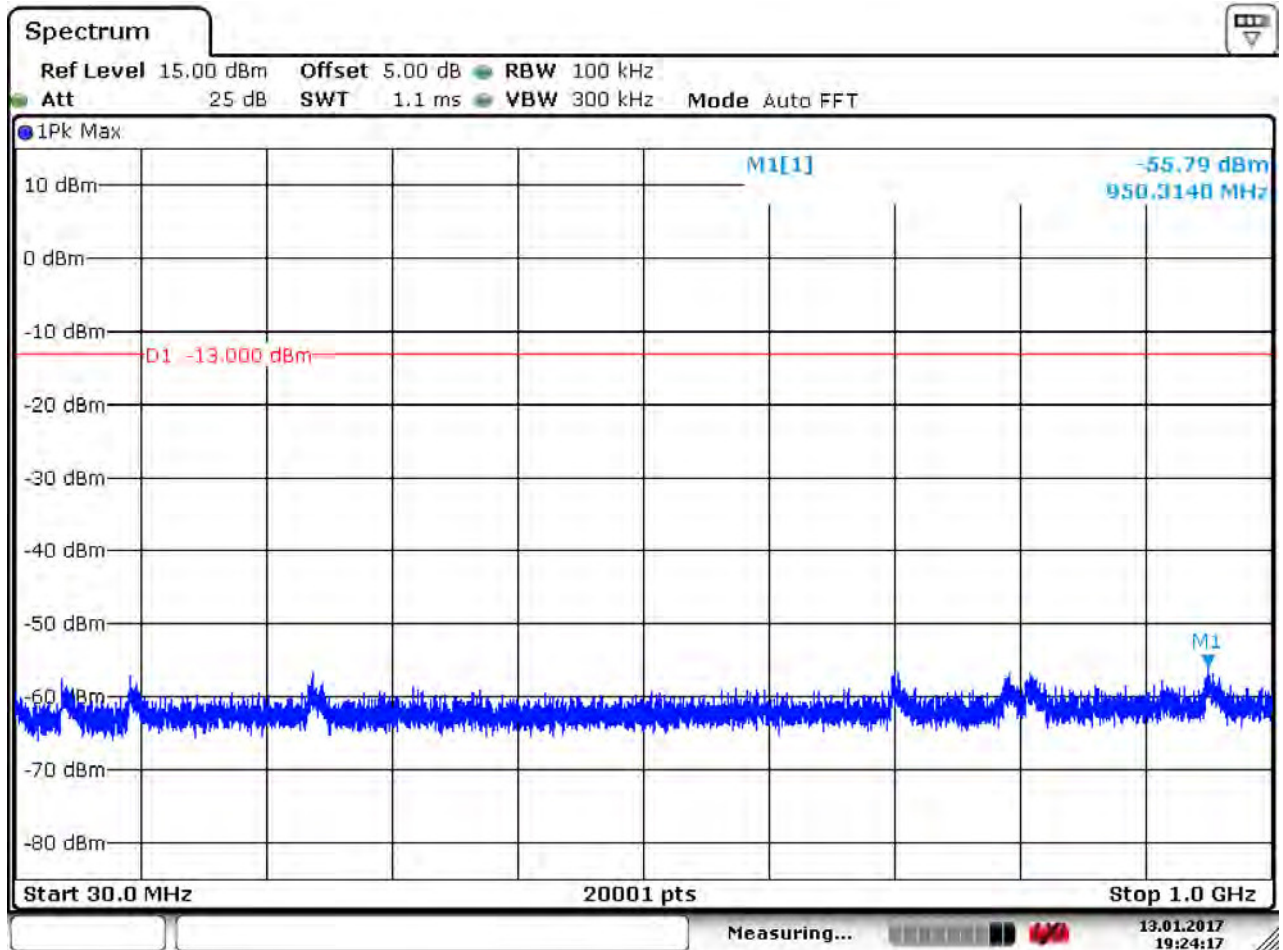


Date: 13.JAN.2017 19:16:51

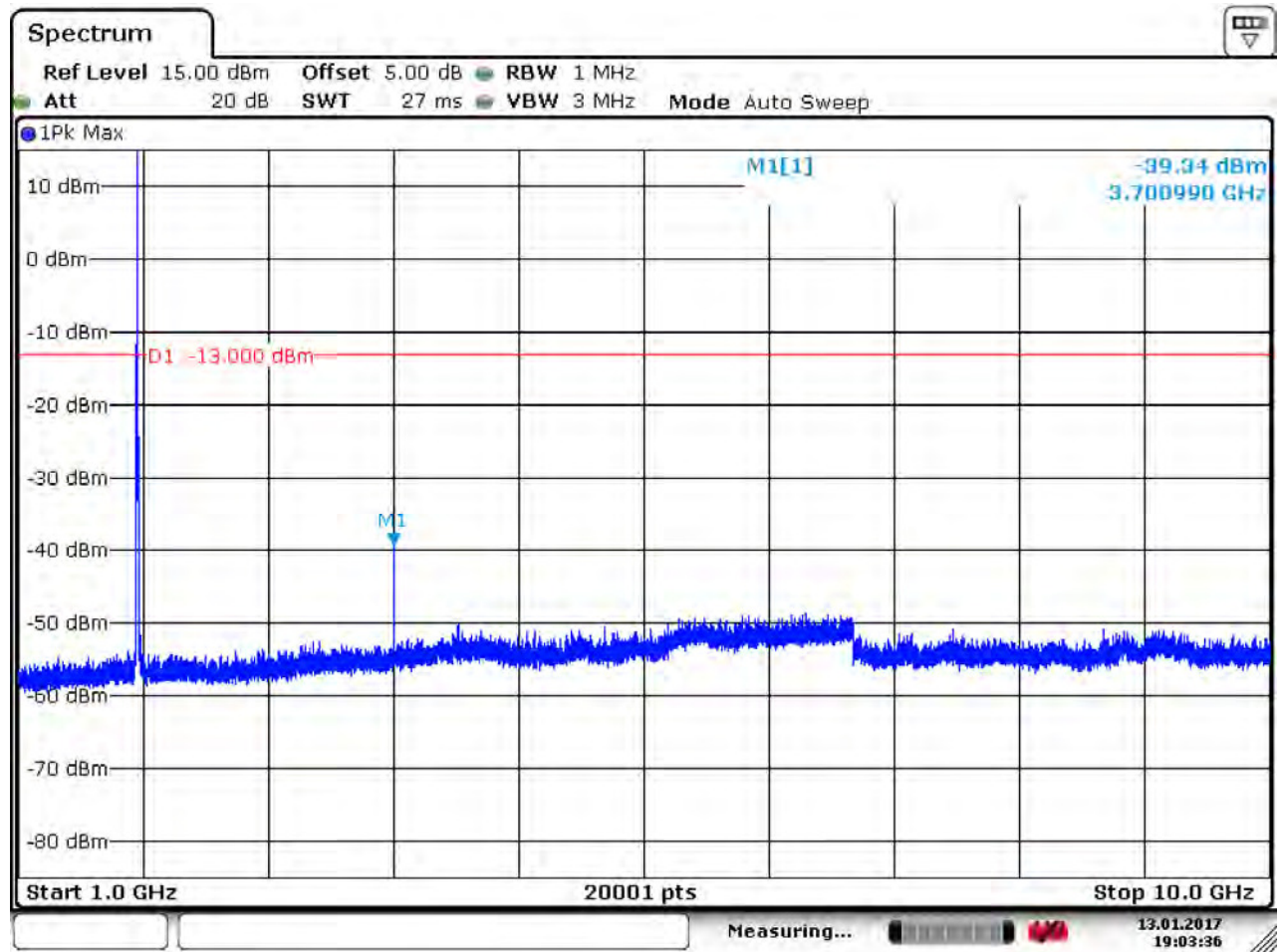


6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

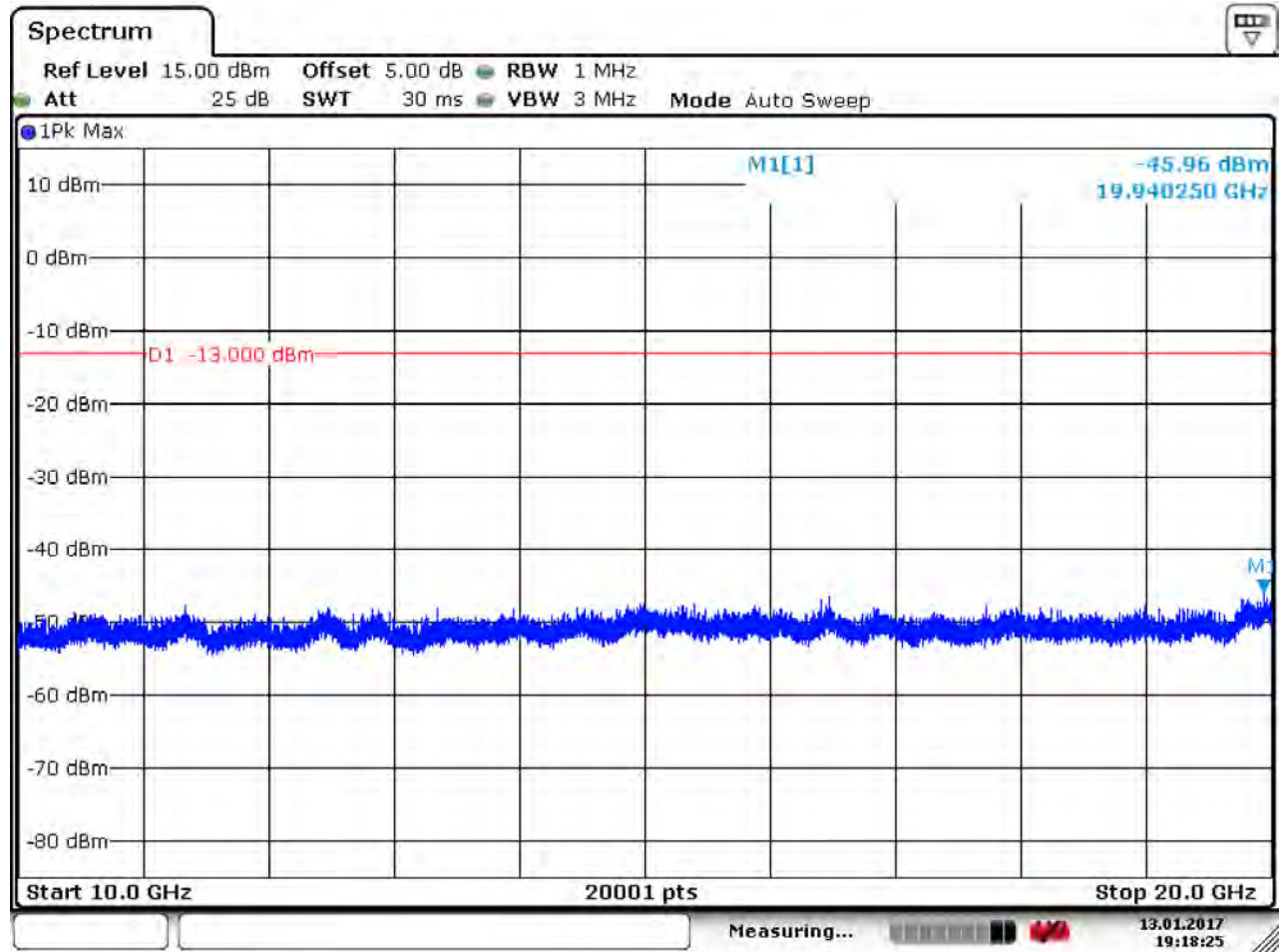
6.1.1.4.1 Test Channel = LCH



Date: 13.JAN.2017 19:24:17



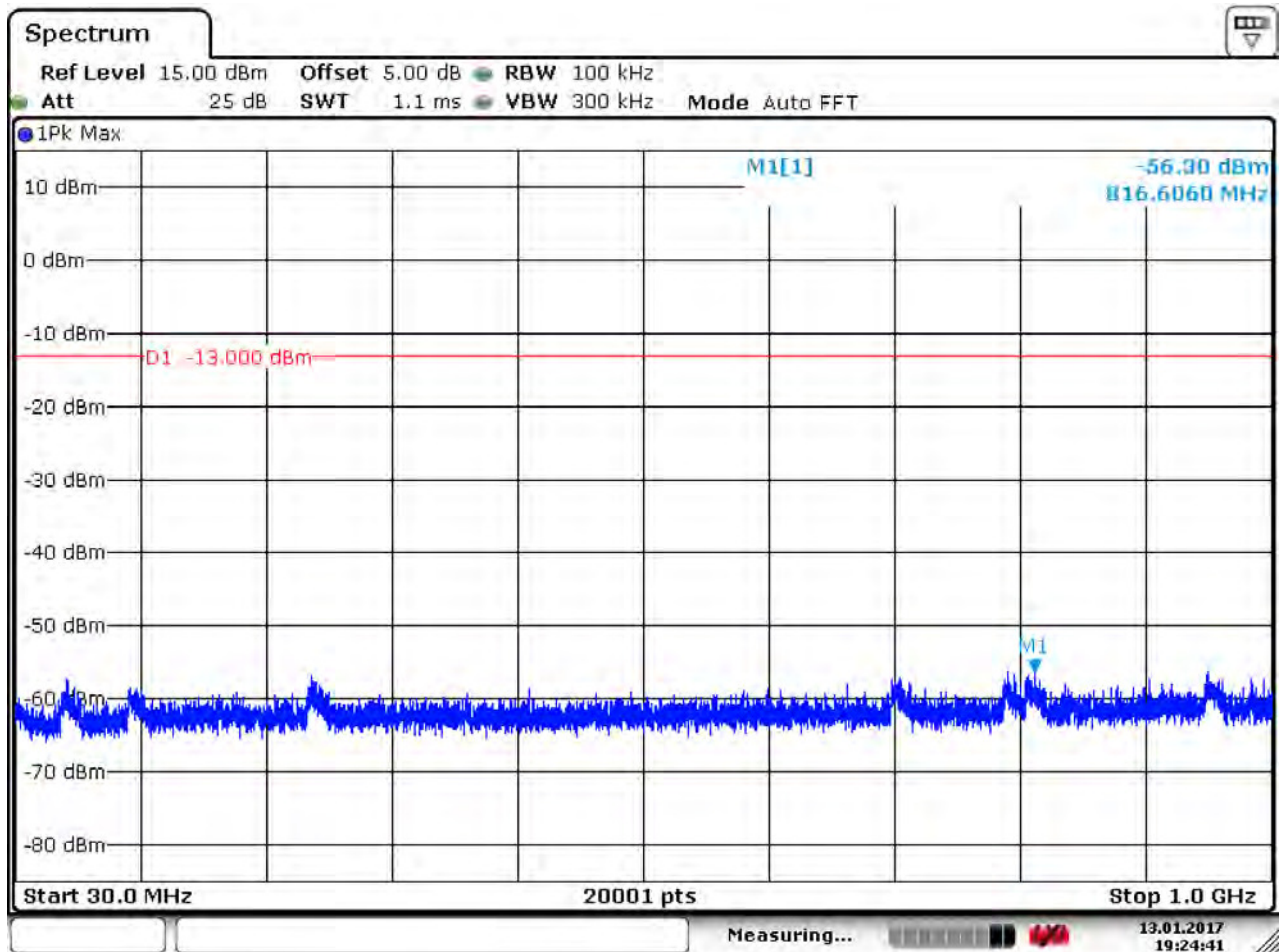
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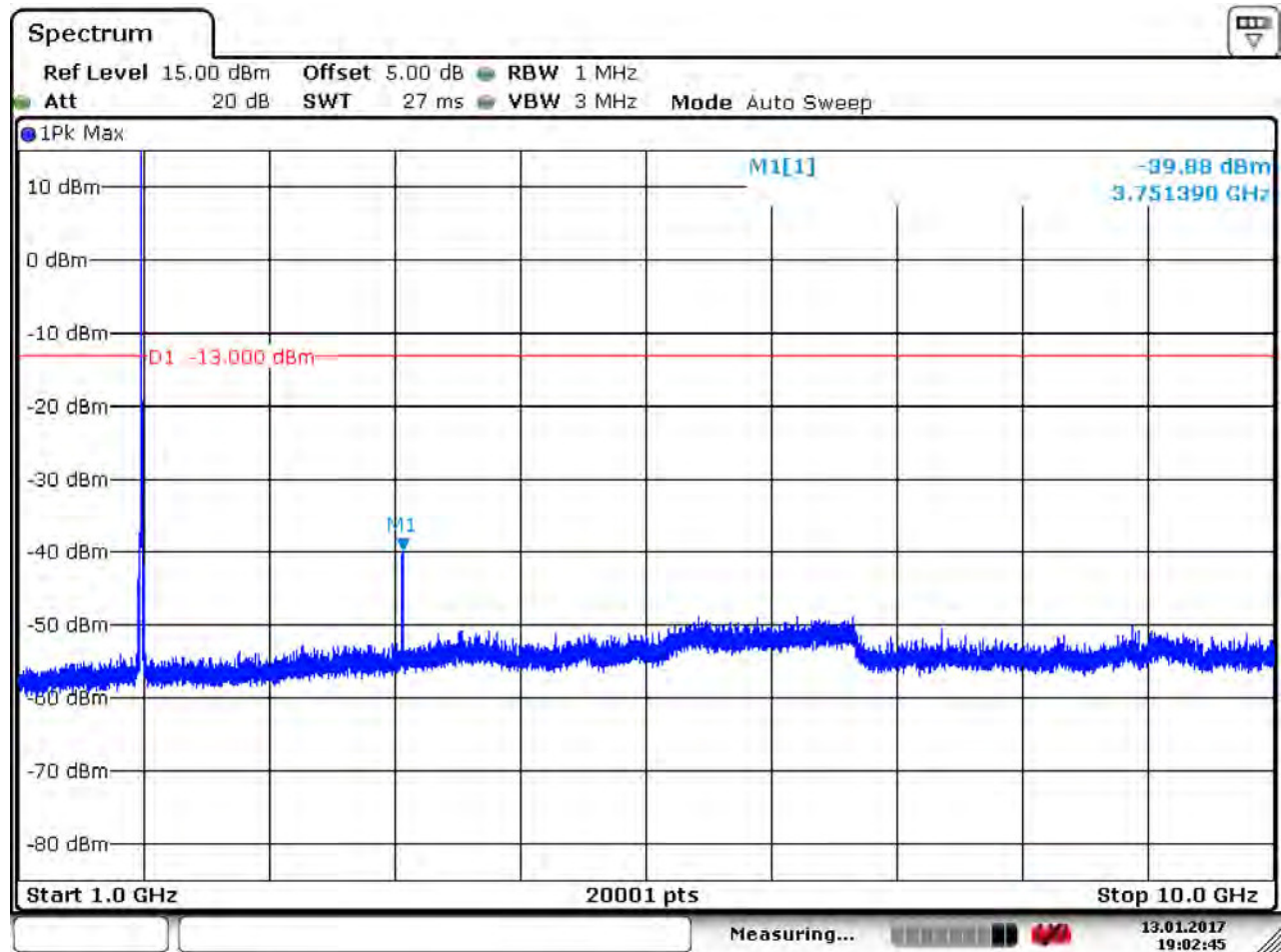
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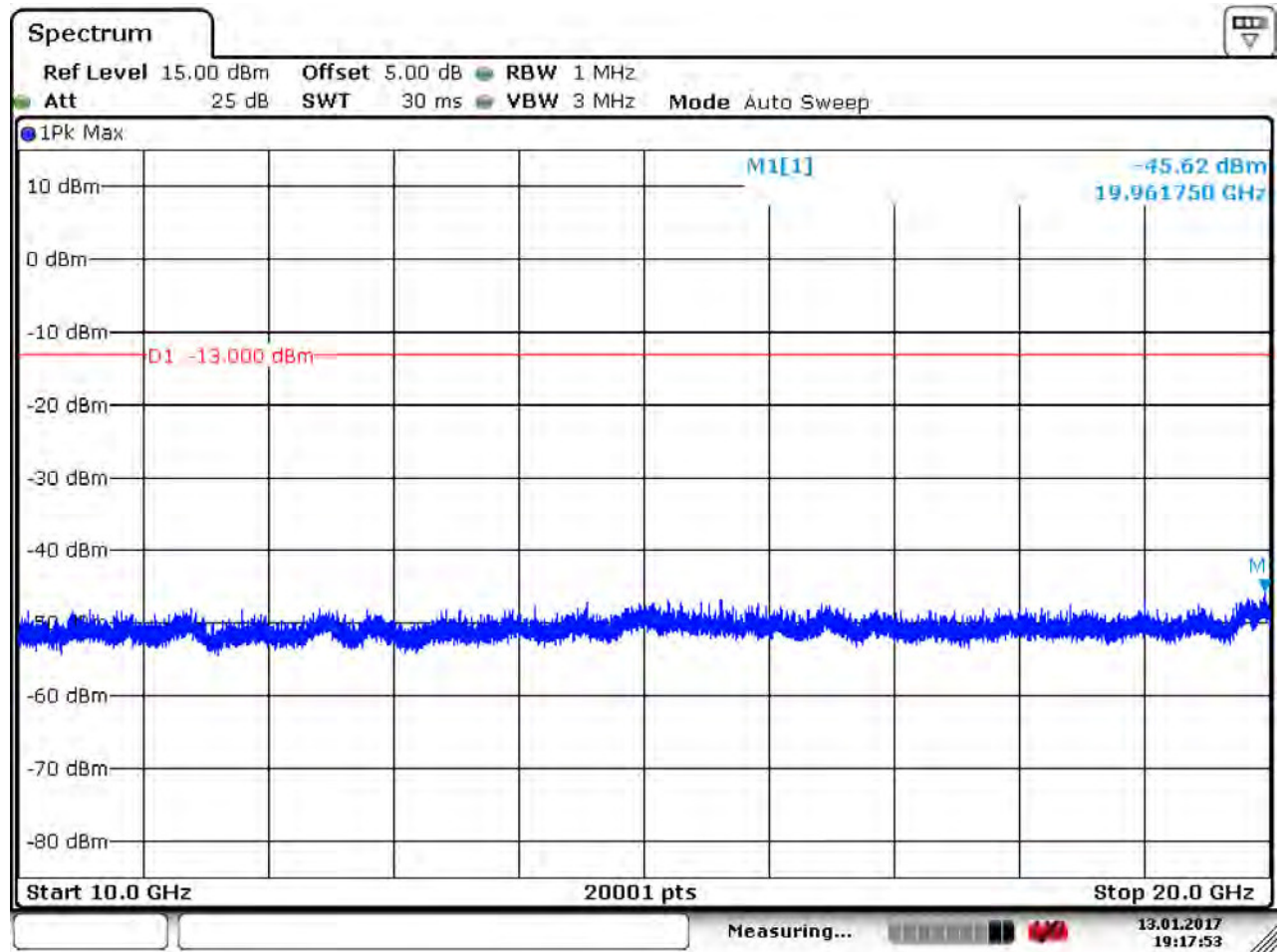
6.1.1.4.2 Test Channel = MCH



Date: 13.JAN.2017 19:24:41



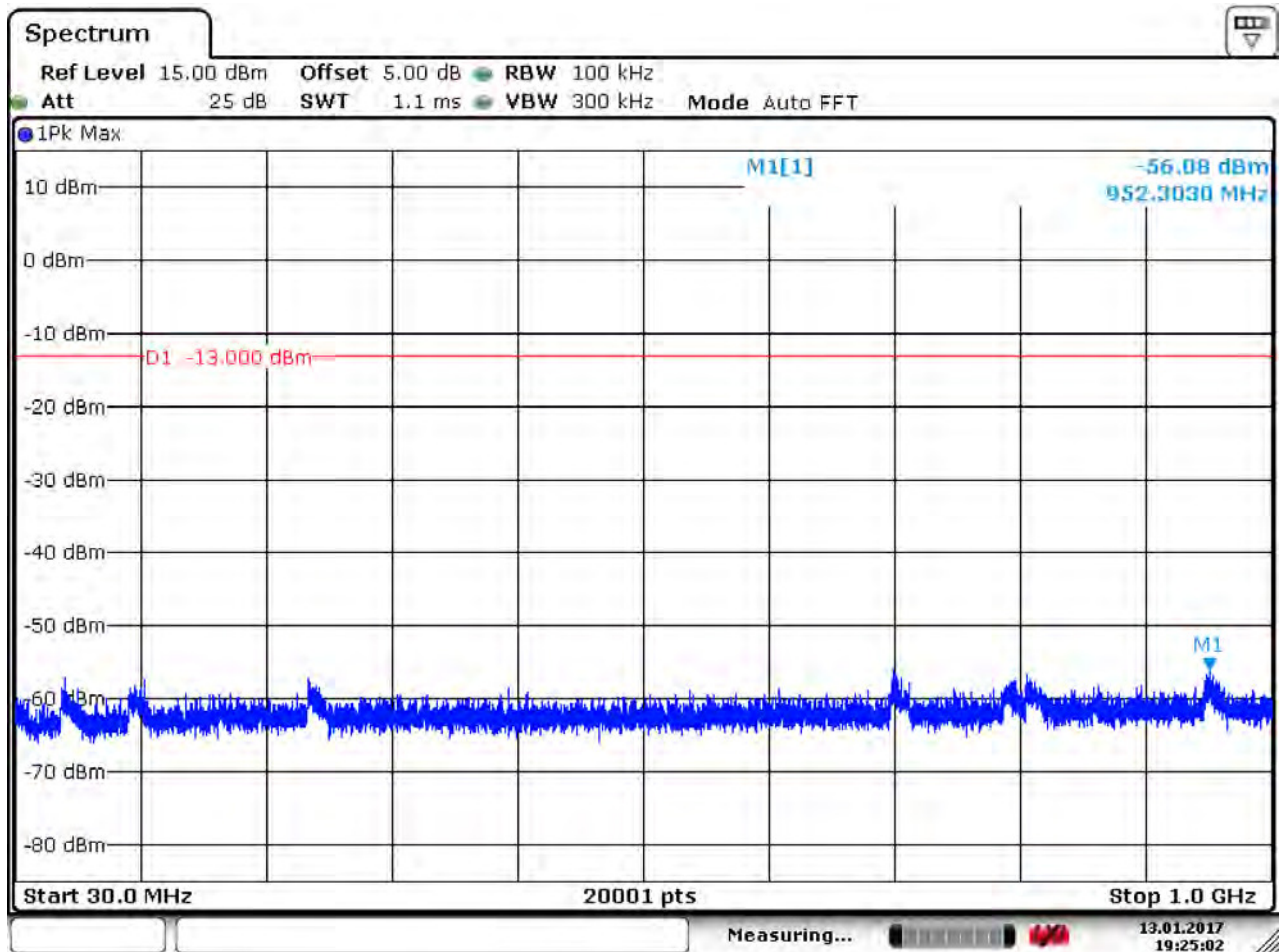
Date: 13.JAN.2017 19:02:45



Date: 13.JAN.2017 19:17:53



6.1.1.4.3 Test Channel = HCH



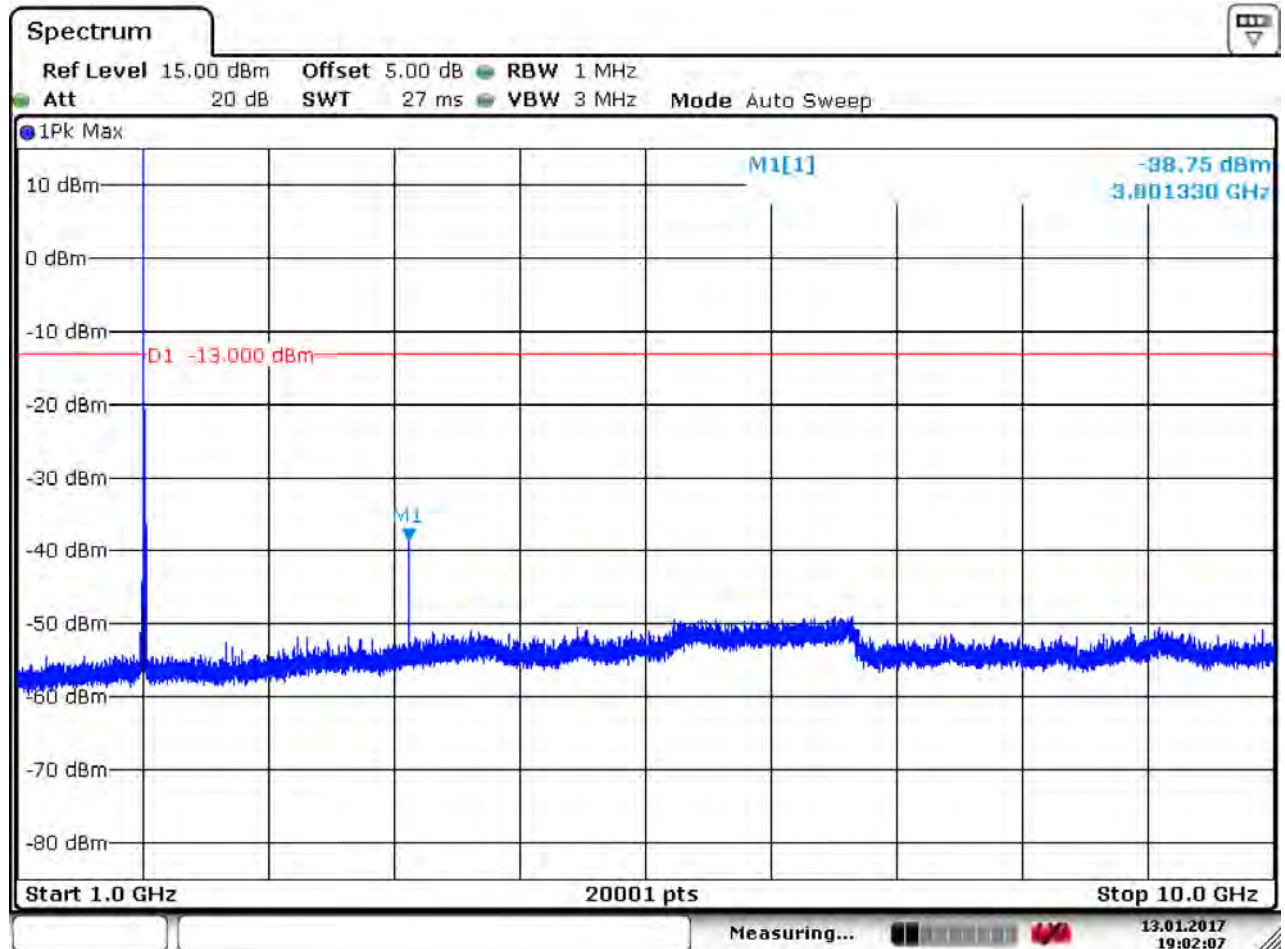
Date: 13.JAN.2017 19:25:02



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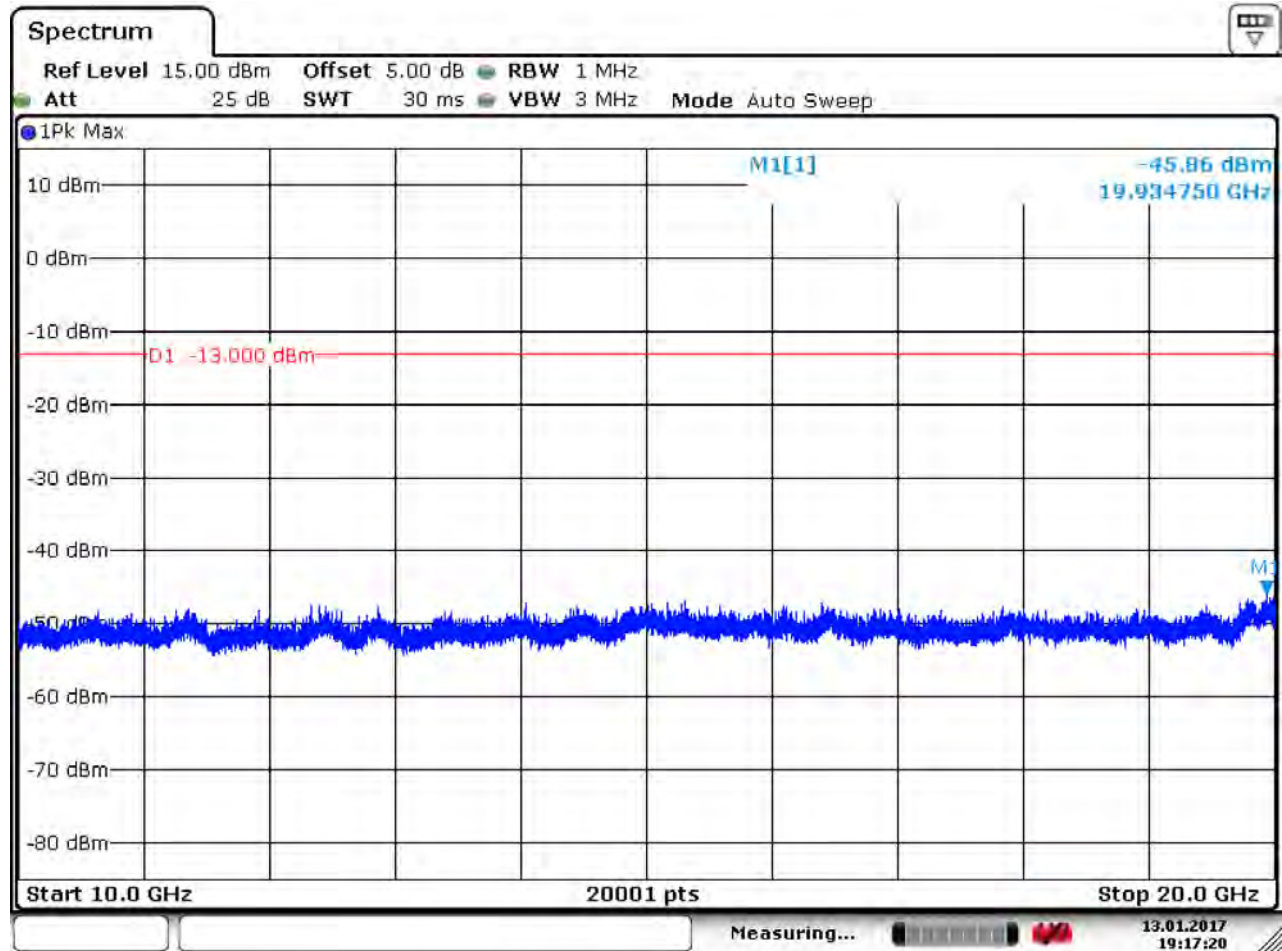
Report No.: SZEM170100023101

Page: 211 of 235



Date: 13.JAN.2017 19:02:07

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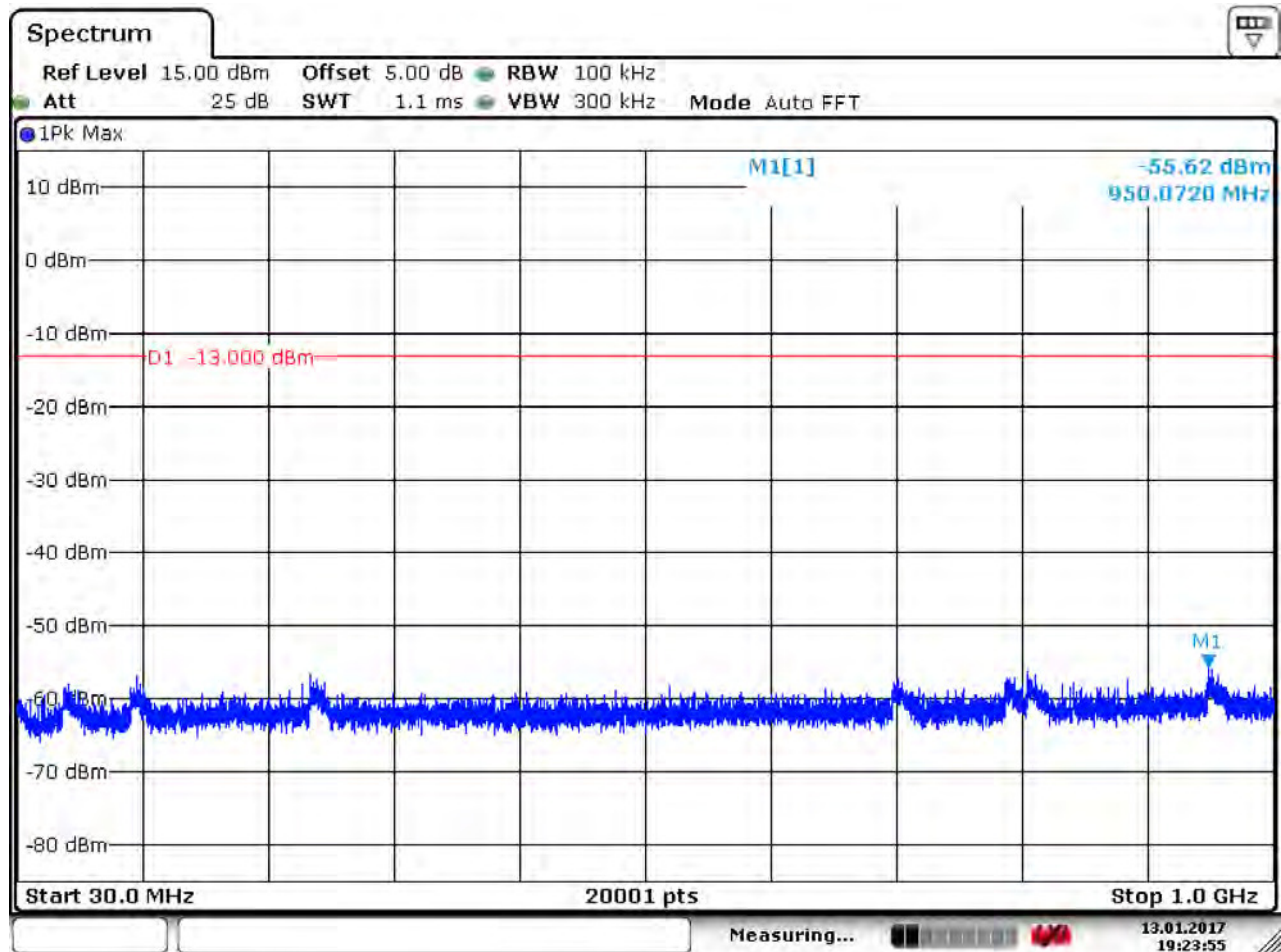


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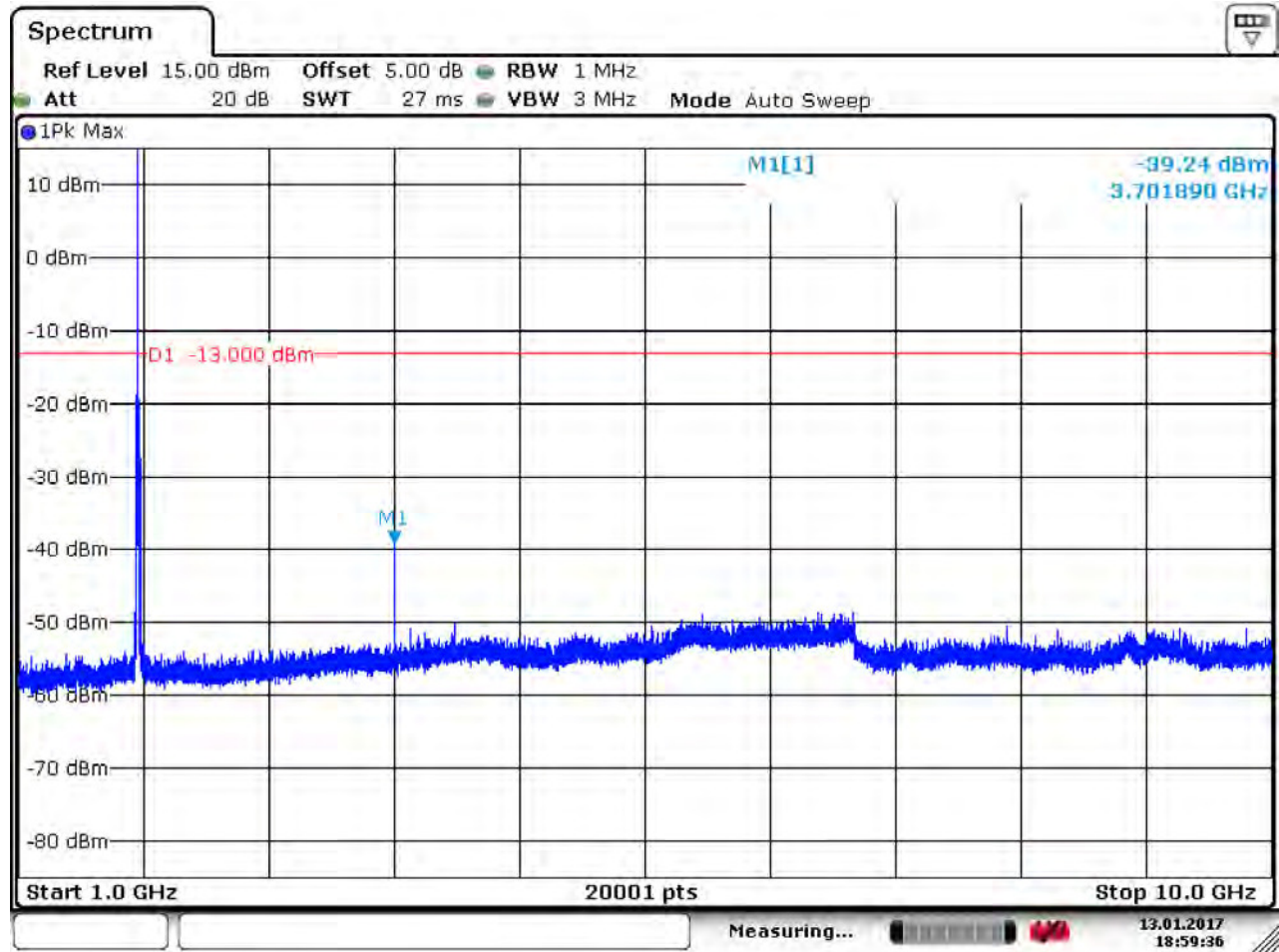


6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

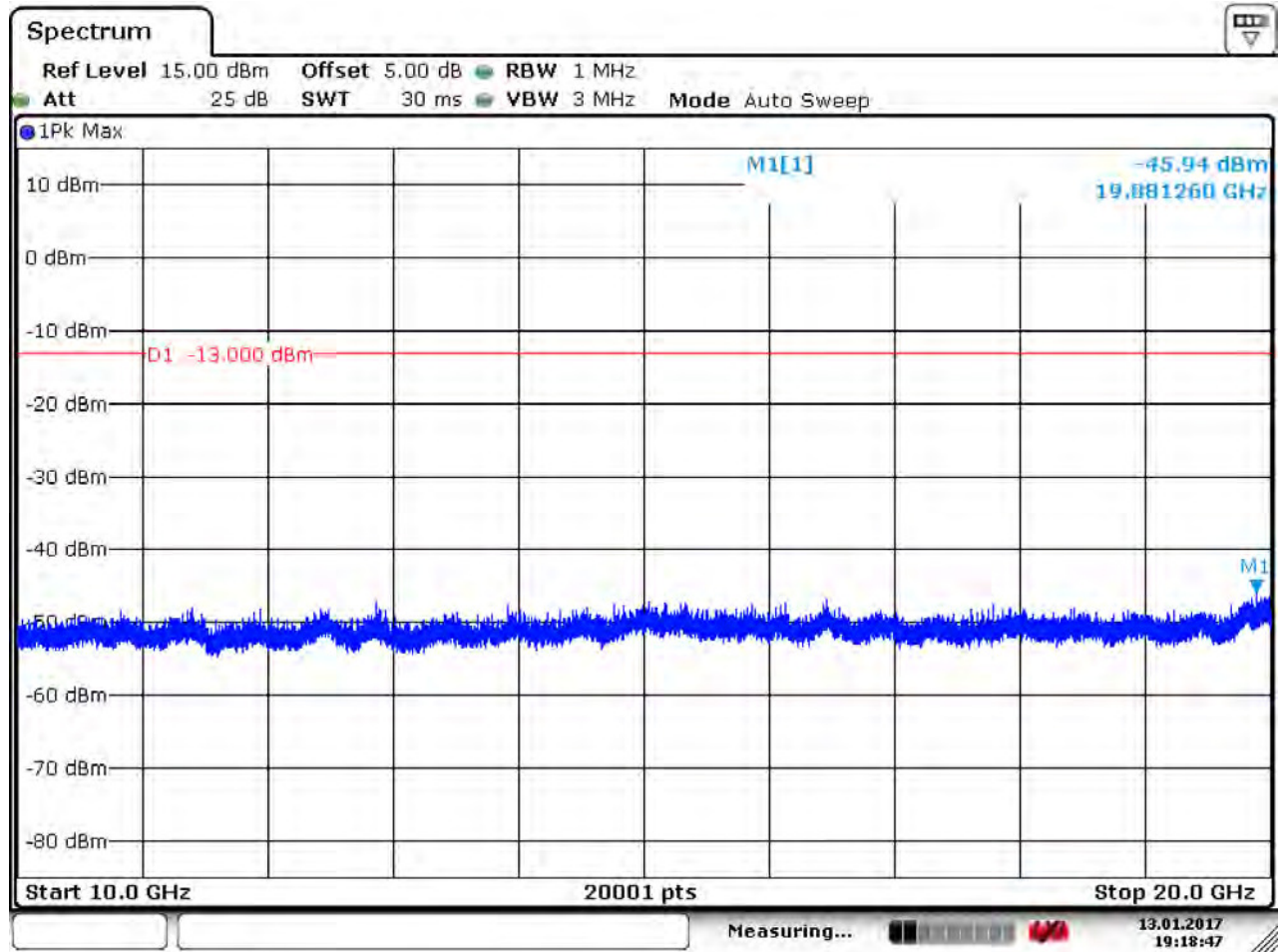
6.1.1.5.1 Test Channel = LCH



Date: 13.JAN.2017 19:23:55



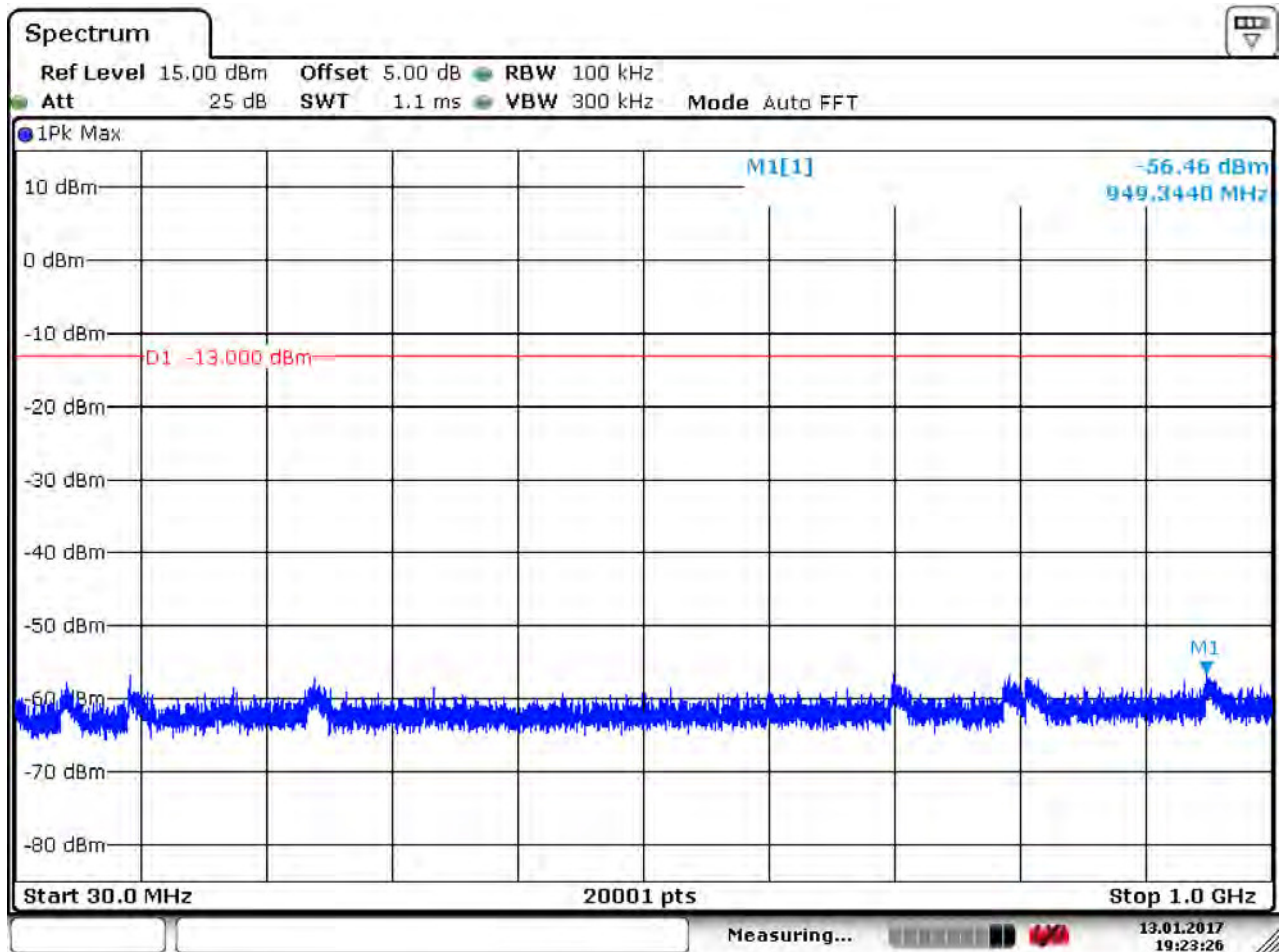
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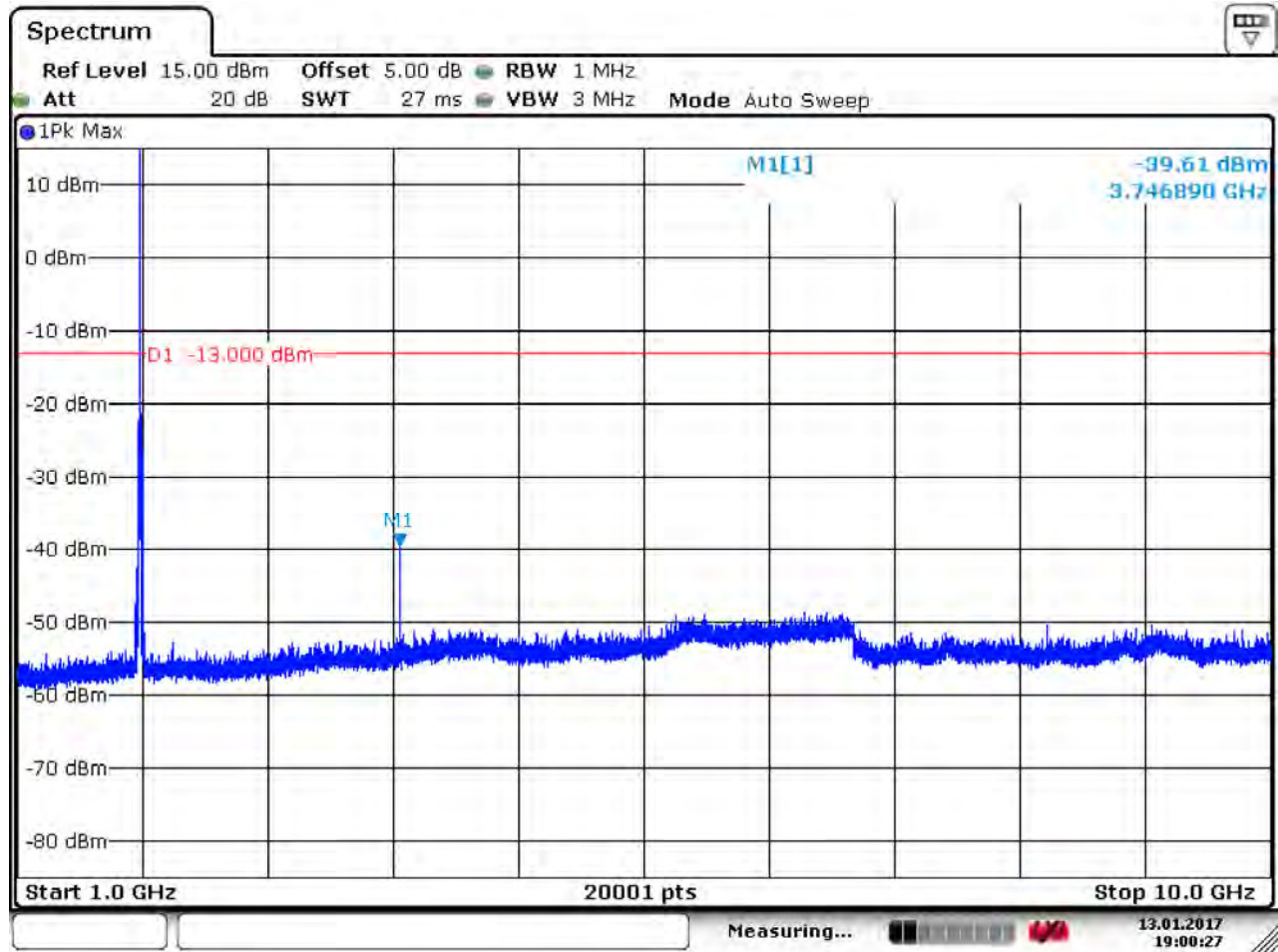
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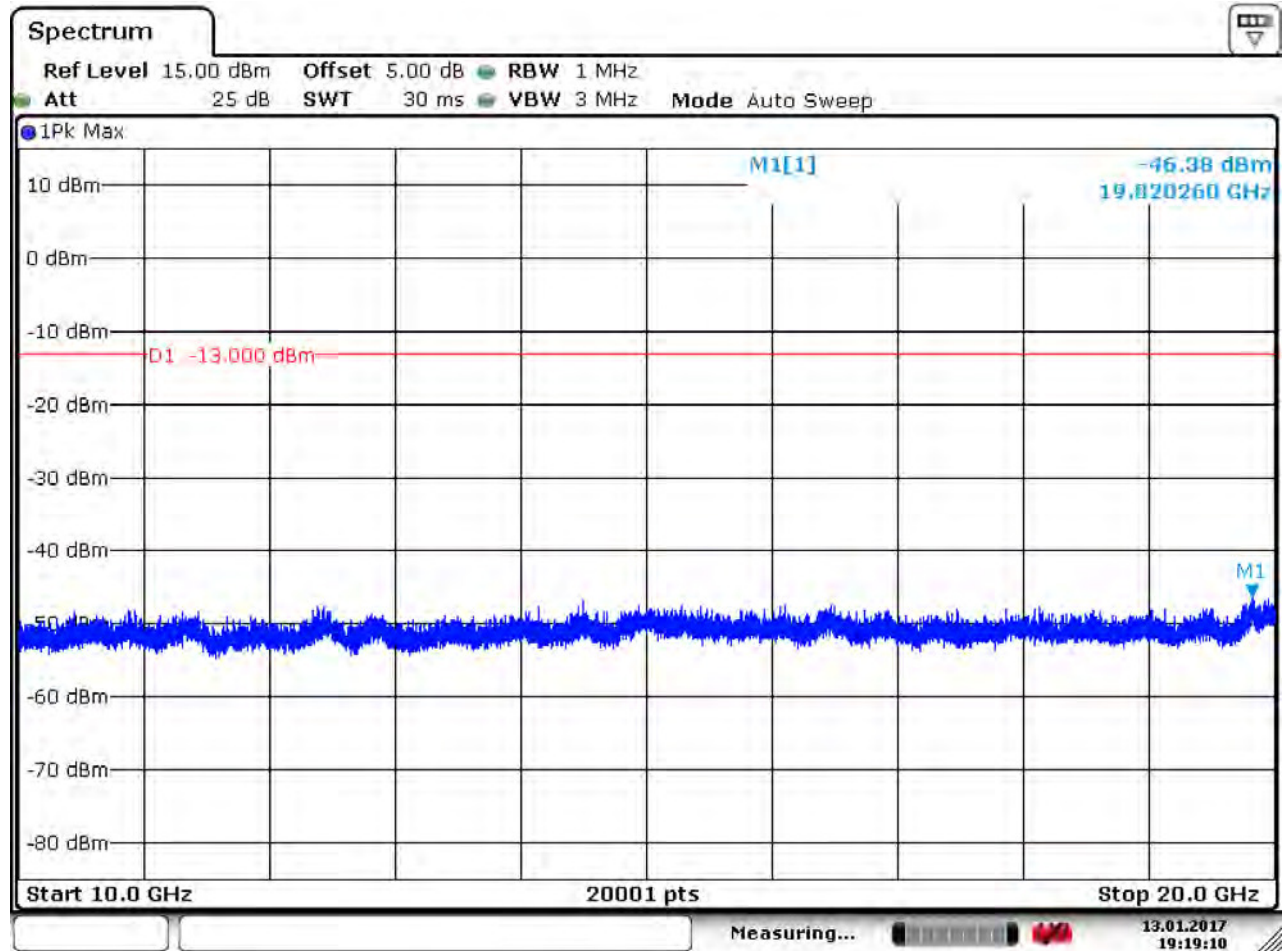
6.1.1.5.2 Test Channel = MCH



Date: 13.JAN.2017 19:23:27



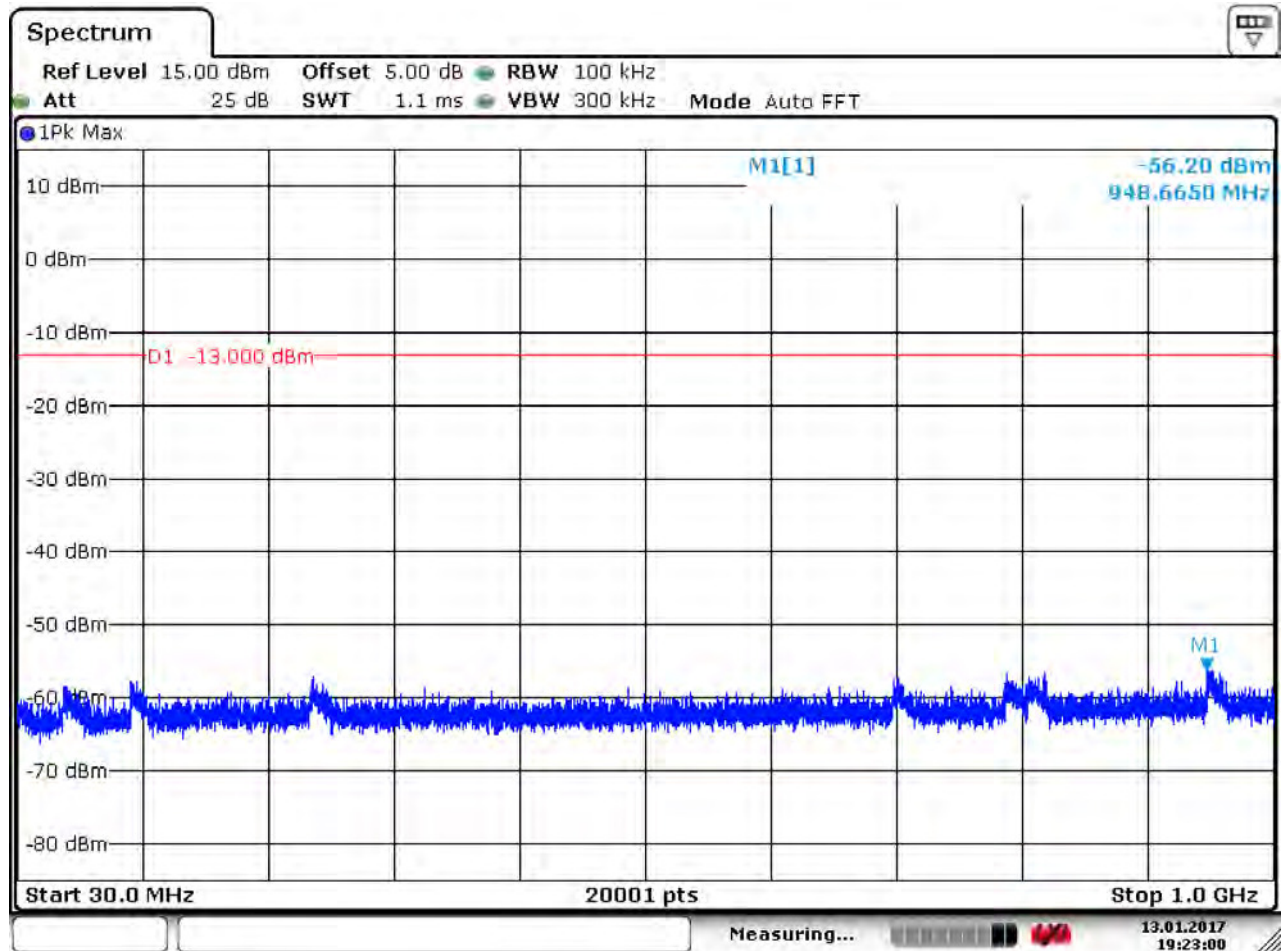
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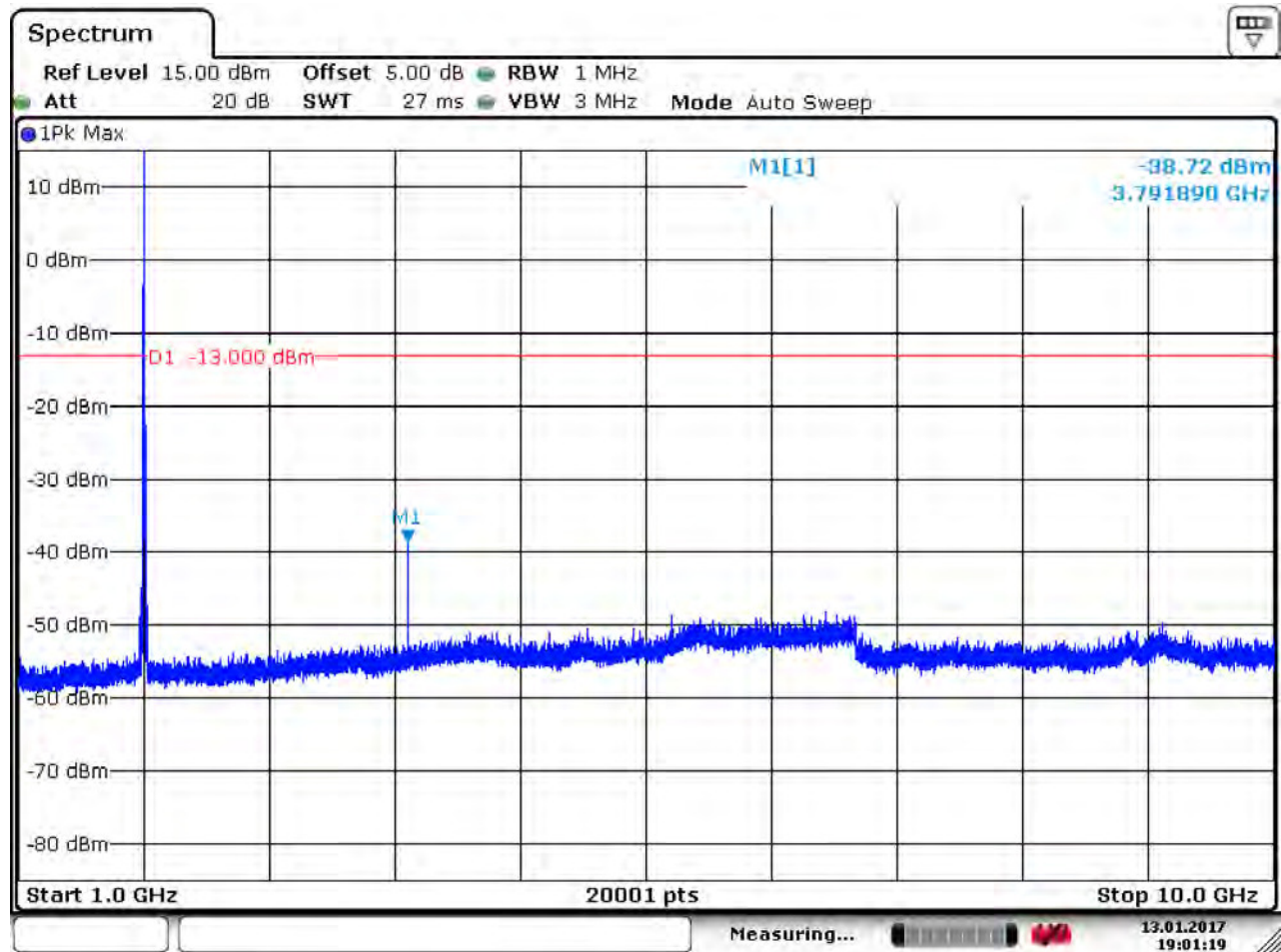
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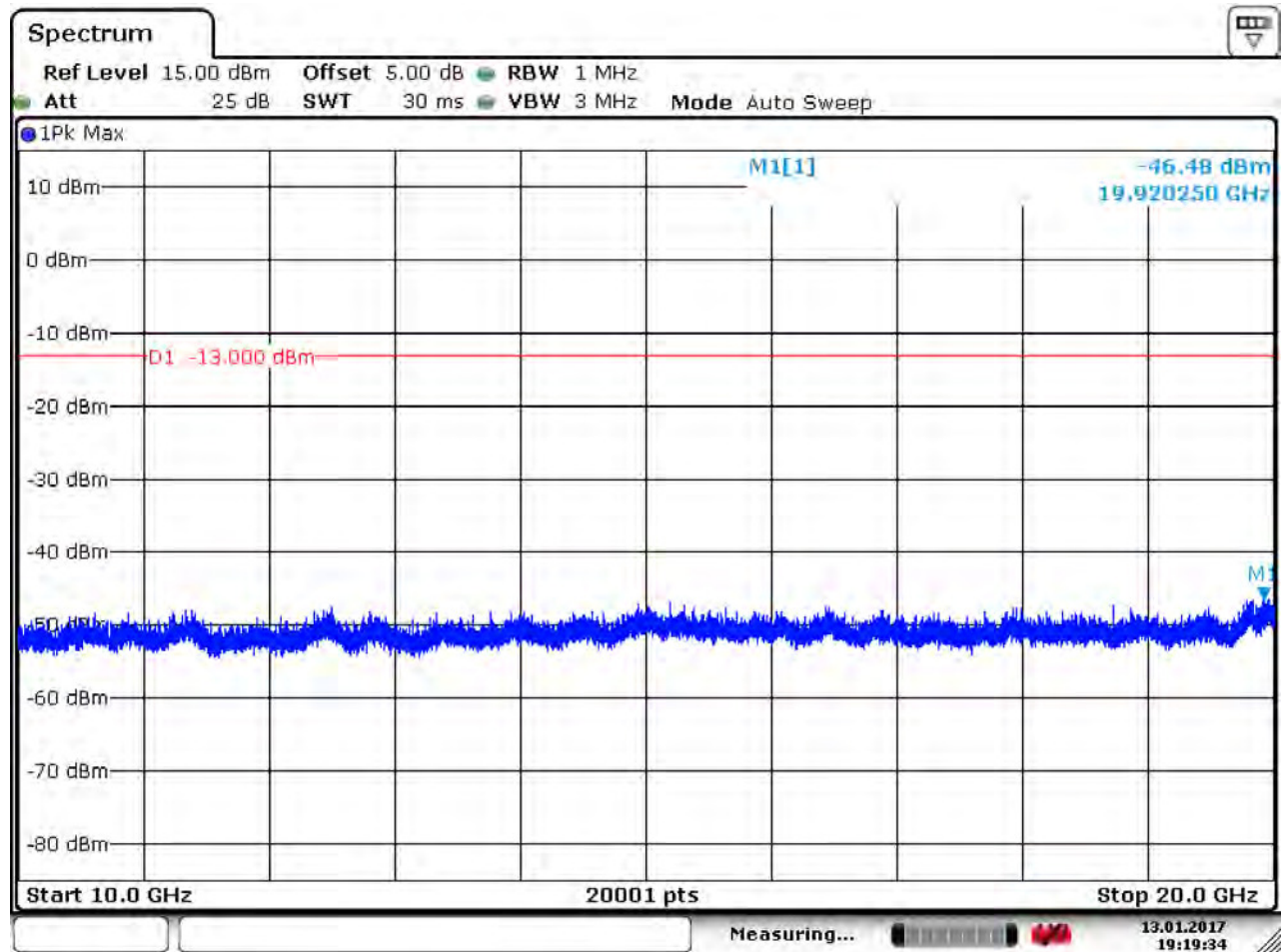
6.1.1.5.3 Test Channel = HCH



Date: 13.JAN.2017 19:23:00



Date: 13.JAN.2017 19:01:20

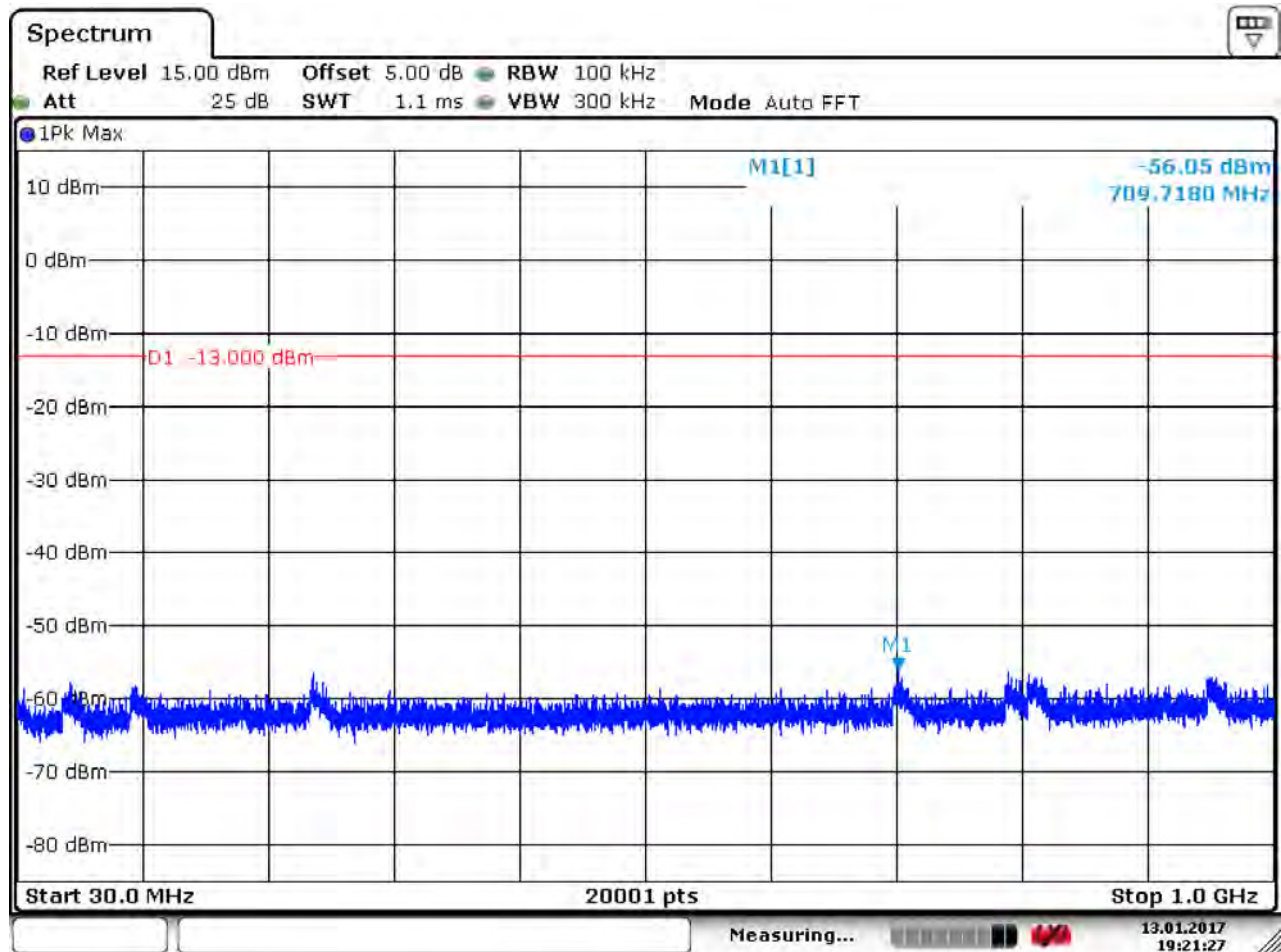


Date: 13.JAN.2017 19:19:34



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

6.1.1.6.1 Test Channel = LCH



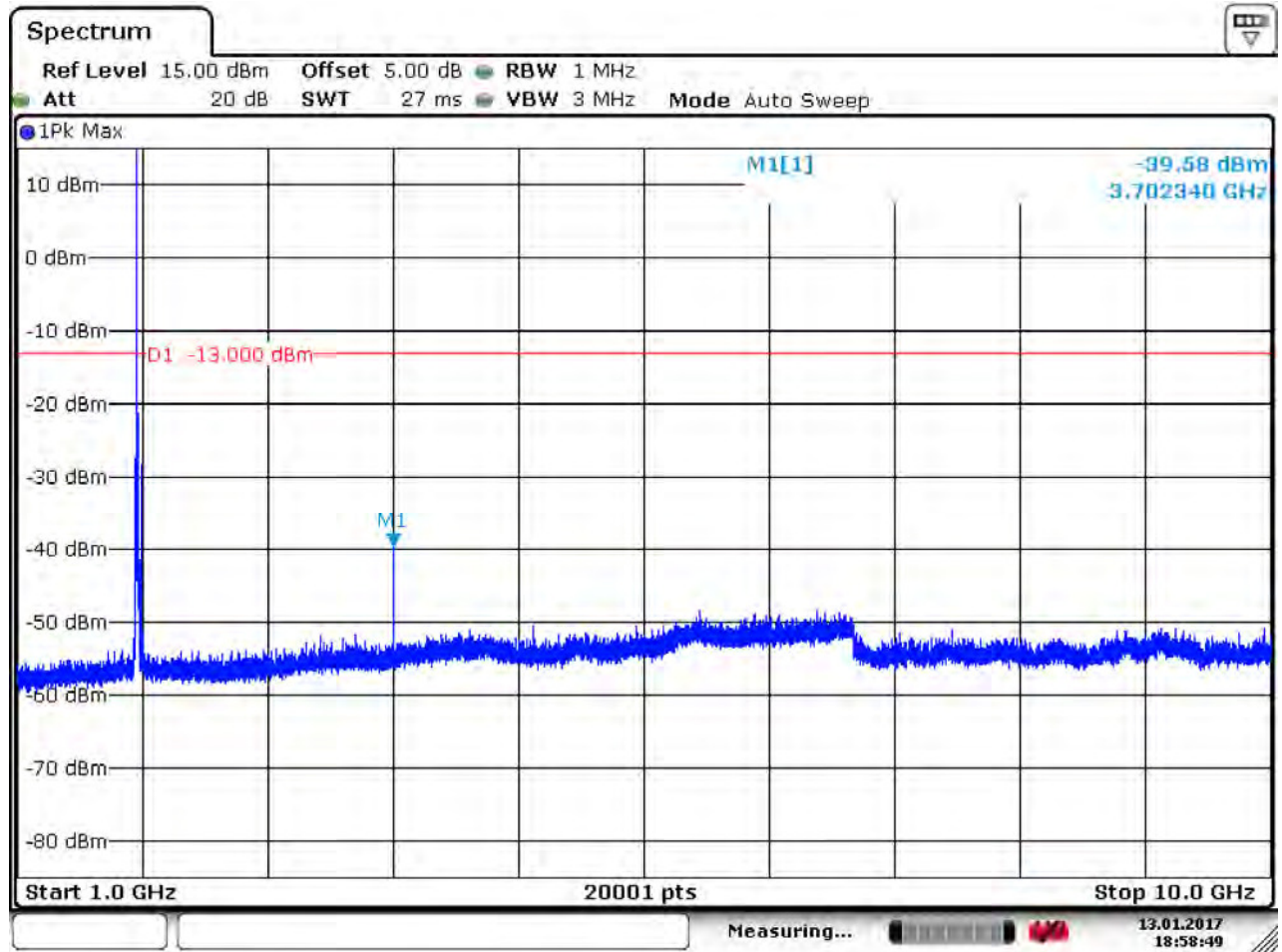
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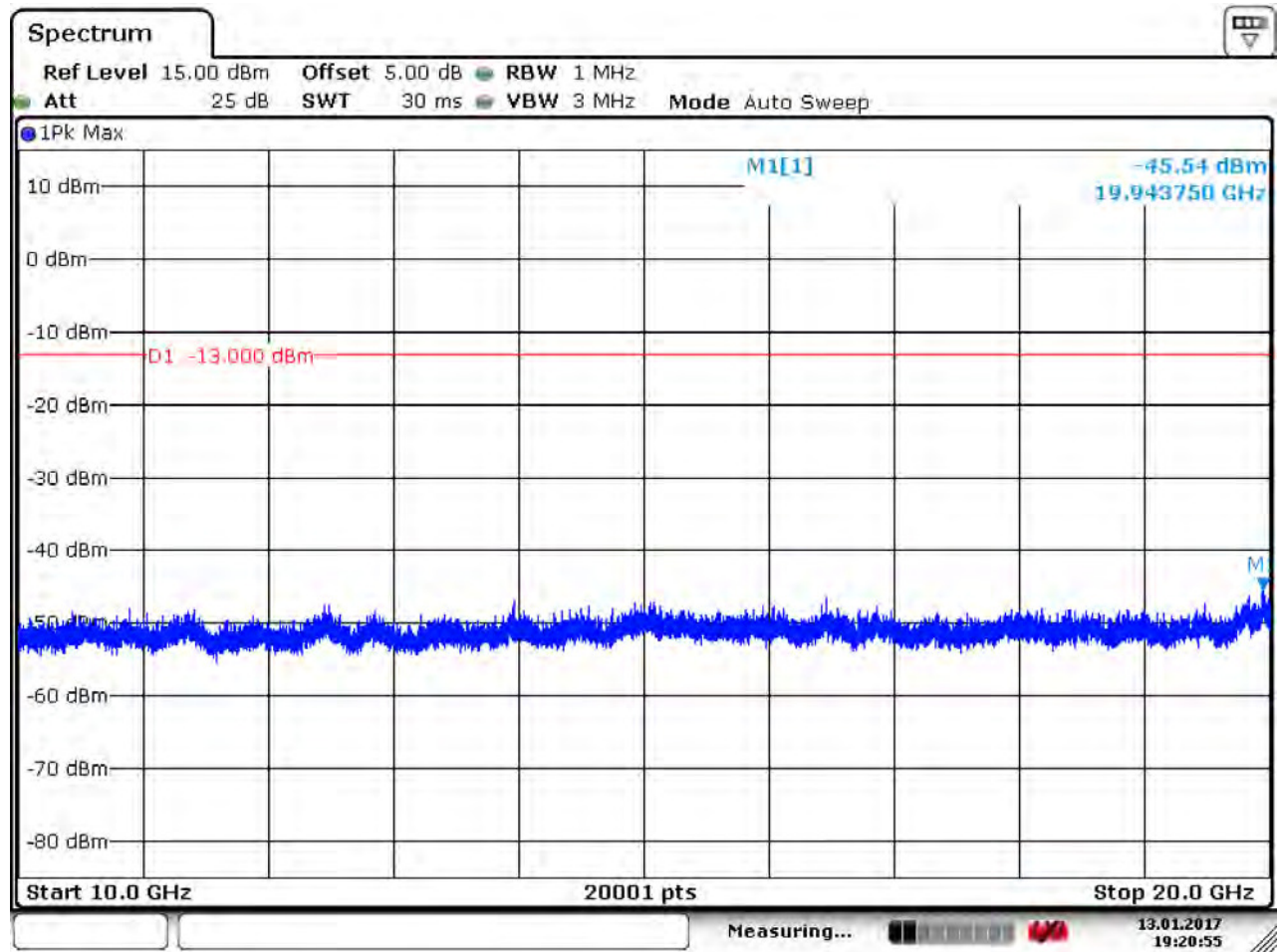
Report No.: SZEM170100023101

Page: 223 of 235



Date: 13.JAN.2017 18:58:50

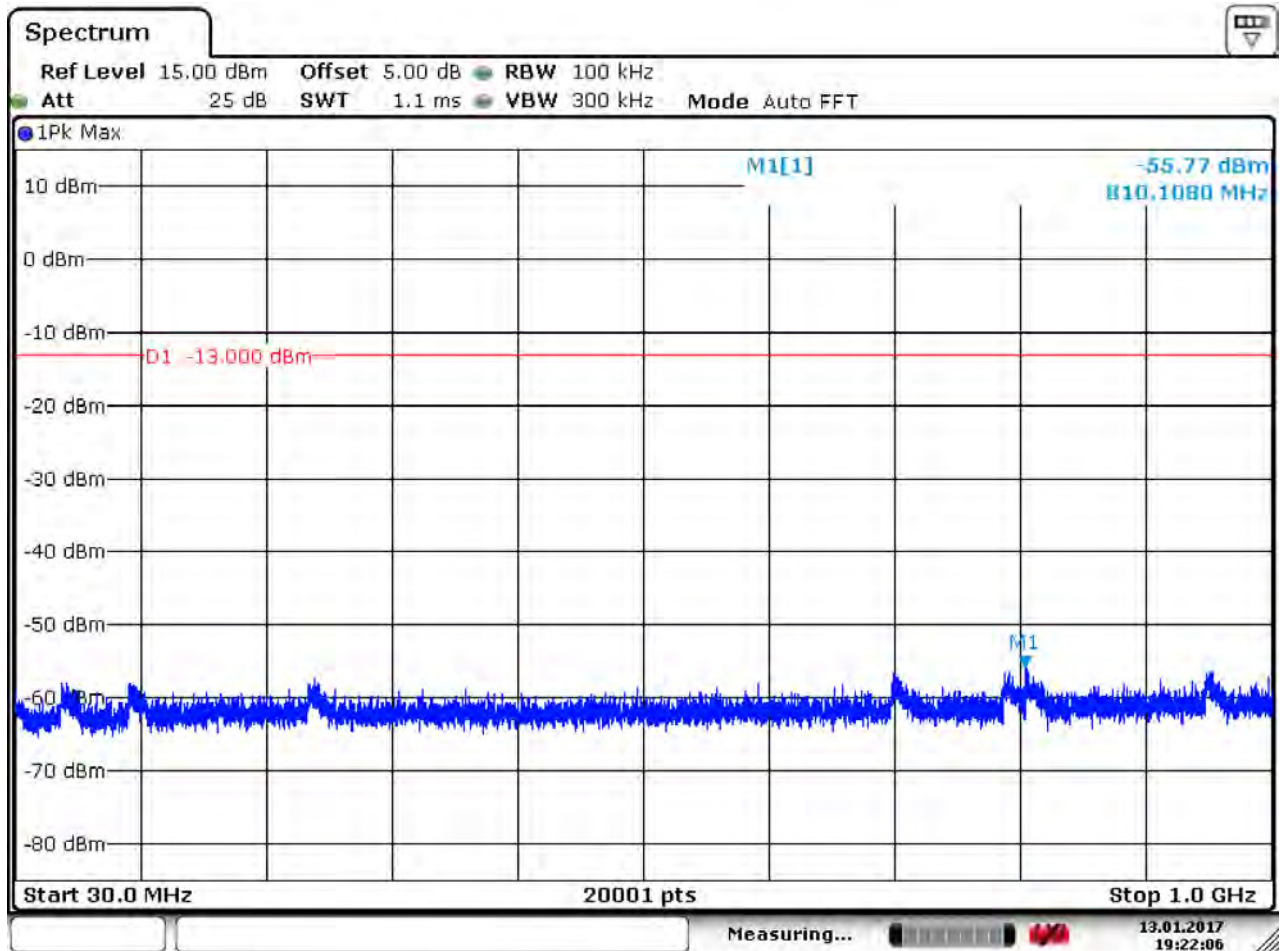
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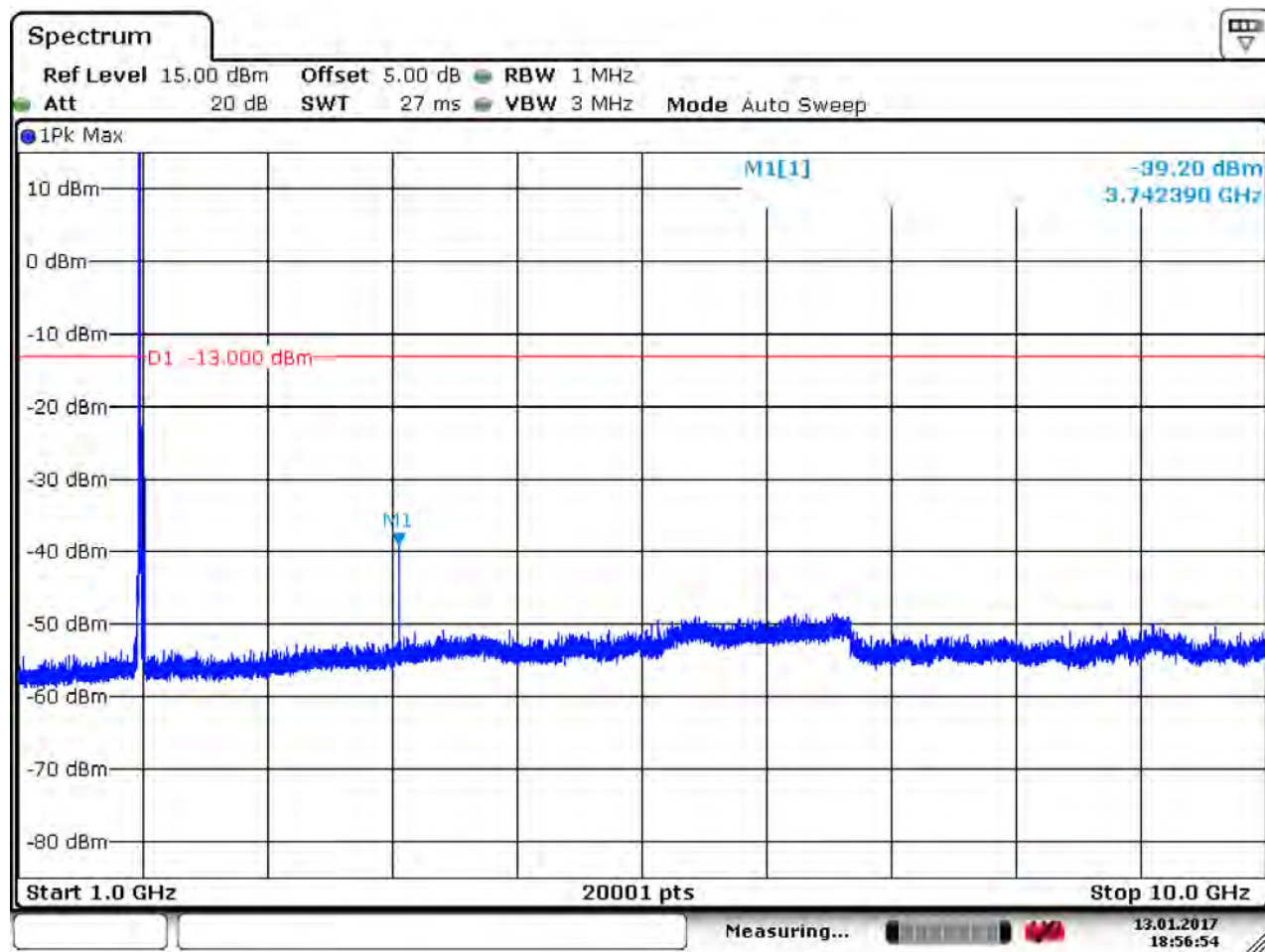
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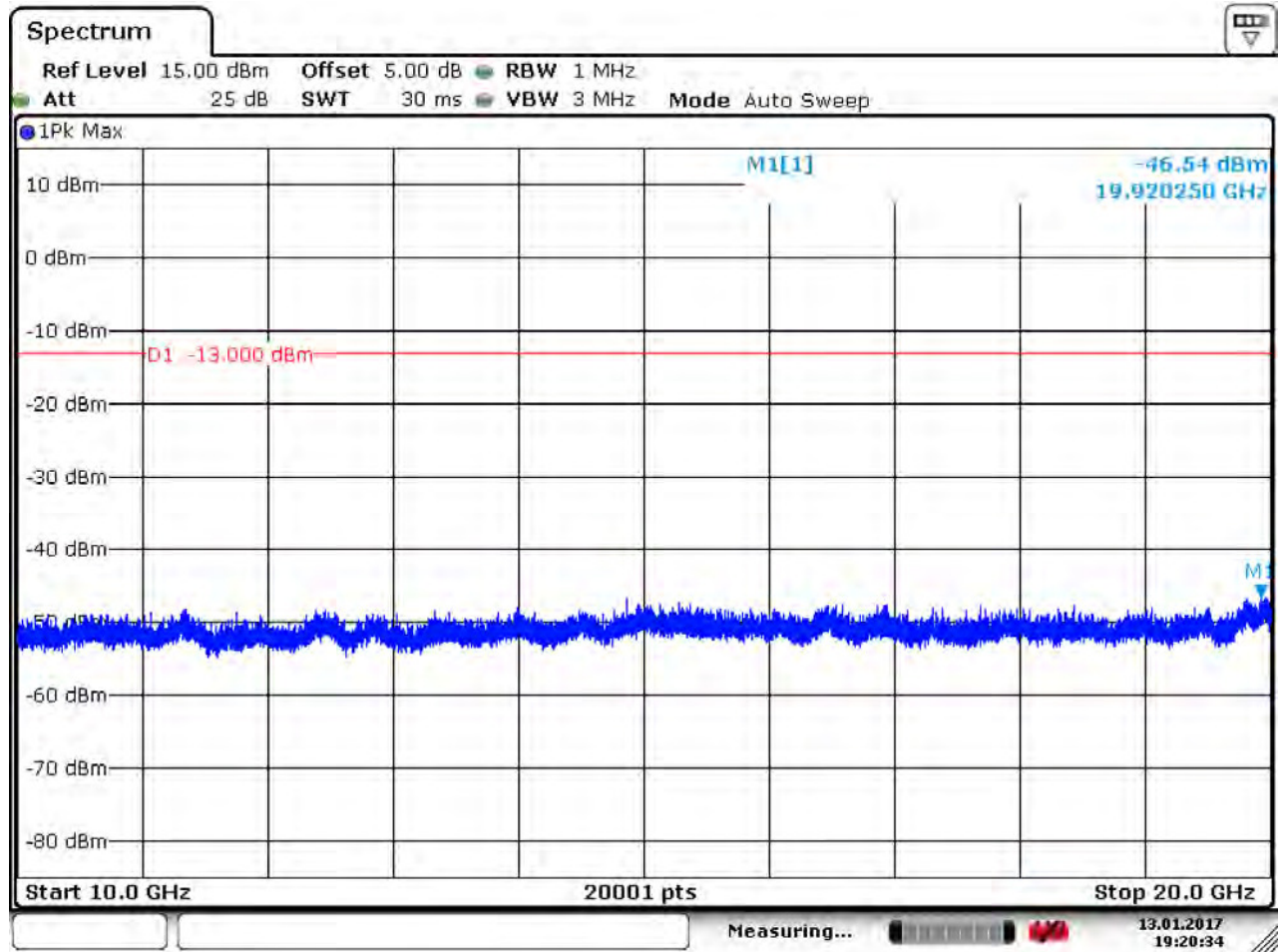
6.1.1.6.2 Test Channel = MCH



Date: 13.JAN.2017 19:22:06



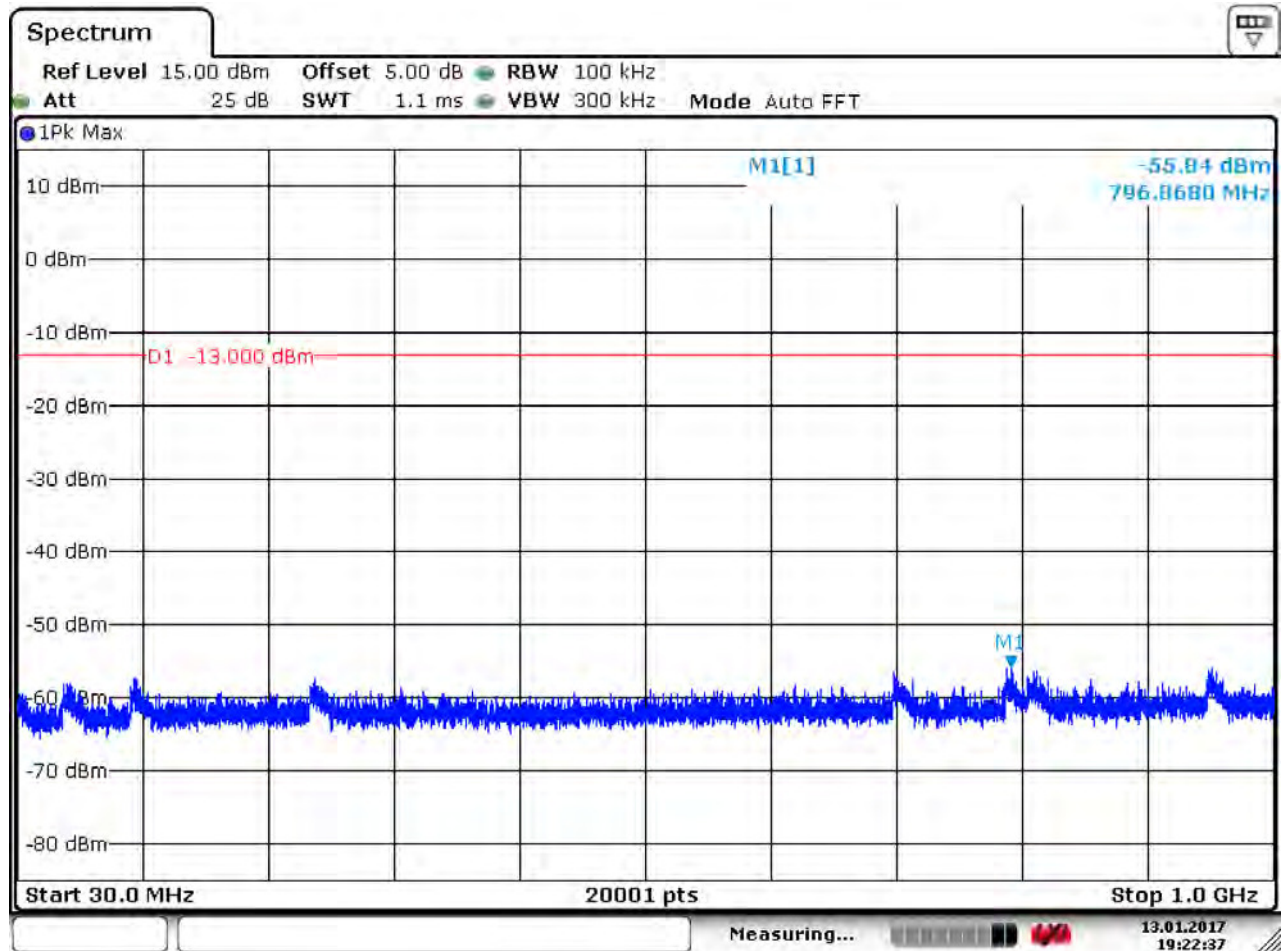
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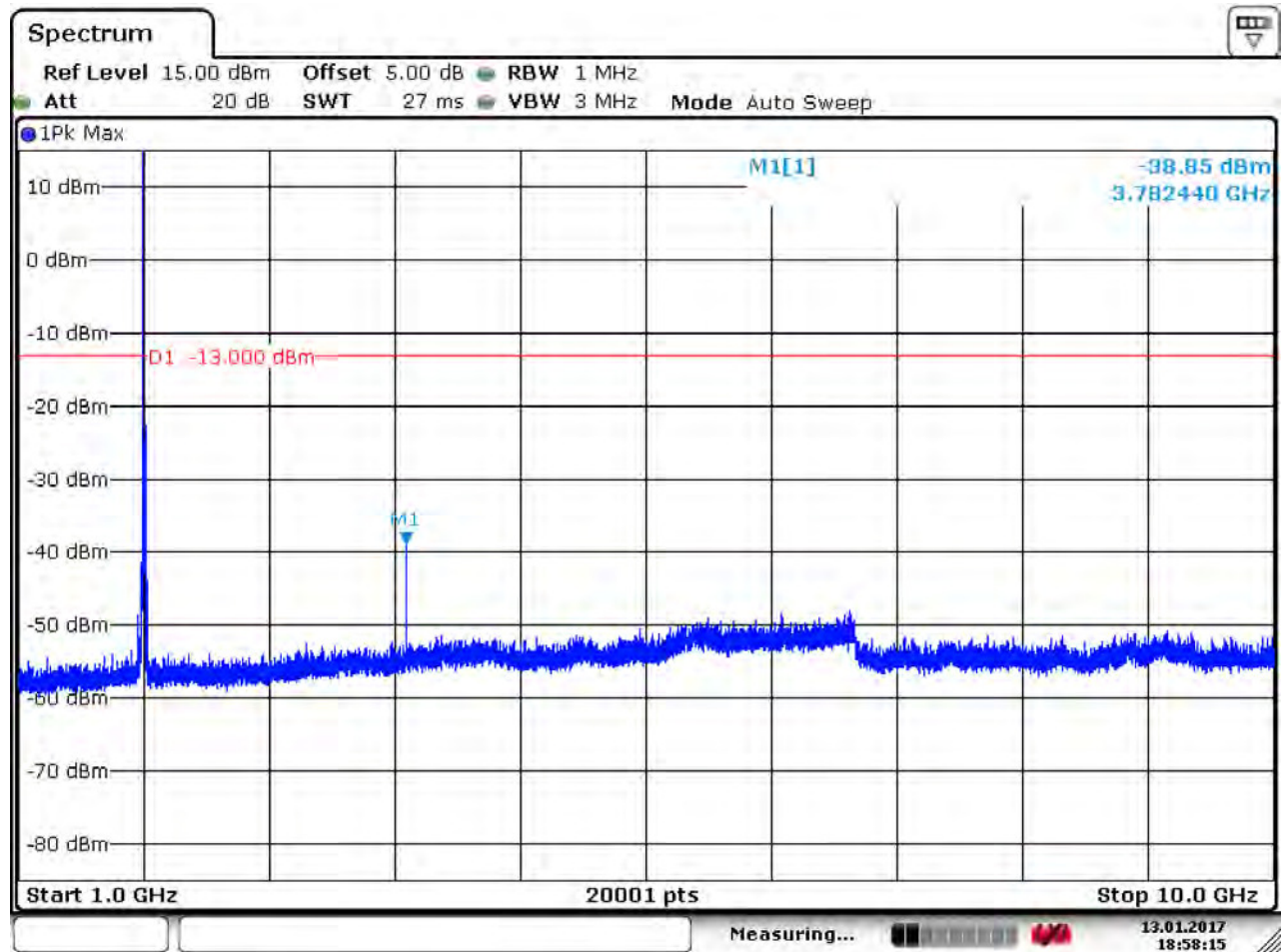
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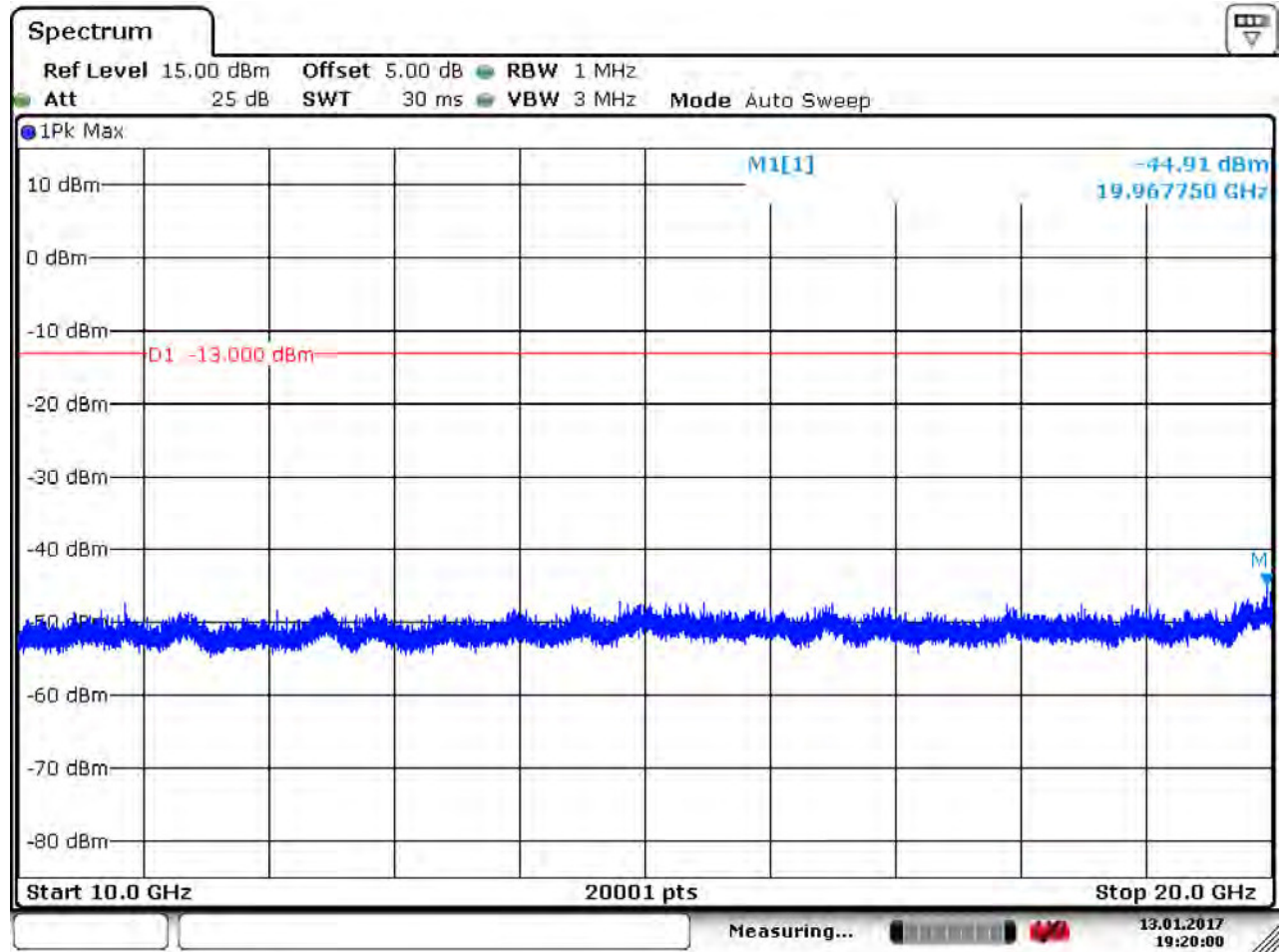
6.1.1.6.3 Test Channel = HCH



Date: 13.JAN.2017 19:22:37



Date: 13.JAN.2017 18:58:16



Date: 13.JAN.2017 19:20:01



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1111.000	-66.73	-13.00	-53.73	Vertical
1463.000	-66.75	-13.00	-53.75	Vertical
2368.000	-59.33	-13.00	-46.33	Vertical
2456.000	-57.43	-13.00	-44.43	Horizontal
3975.000	-68.50	-13.00	-55.50	Horizontal
6510.000	-66.40	-13.00	-53.40	Horizontal

Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1111.000	-66.72	-13.00	-53.72	Vertical
2648.000	-57.72	-13.00	-44.72	Vertical
5340.000	-67.94	-13.00	-54.94	Vertical
437.400	-77.75	-13.00	-64.75	Horizontal
1463.000	-66.30	-13.00	-53.30	Horizontal
6705.000	-66.54	-13.00	-53.54	Horizontal

7.1.1.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2632.000	-57.99	-13.00	-44.99	Vertical
4365.000	-68.47	-13.00	-55.47	Vertical
6802.500	-66.32	-13.00	-53.32	Vertical
1221.000	-67.24	-13.00	-54.24	Horizontal
1694.000	-64.69	-13.00	-51.69	Horizontal
4950.000	-67.17	-13.00	-54.17	Horizontal

1) NOTE:

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 2	LTE/TM1 20MHz	LCH	TN	VL	-3.95	-0.00212	PASS
				VN	4.62	0.00249	PASS
				VH	2.30	0.00124	PASS
		MCH	TN	VL	-2.39	-0.00127	PASS
				VN	2.55	0.00136	PASS
				VH	-0.84	-0.00045	PASS
		HCH	TN	VL	-6.08	-0.00320	PASS
				VN	-2.31	-0.00122	PASS
				VH	-5.43	-0.00286	PASS
	LTE/TM2 20MHz	LCH	TN	VL	6.62	0.00356	PASS
				VN	5.44	0.00293	PASS
				VH	-5.54	-0.00298	PASS
		MCH	TN	VL	0.01	0.00000	PASS
				VN	-2.26	-0.00120	PASS
				VH	-6.41	-0.00341	PASS
		HCH	TN	VL	6.07	0.00319	PASS
				VN	6.65	0.00350	PASS
				VH	2.84	0.00150	PASS
	LTE/TM3 20MHz	LCH	TN	VL	3.10	0.00167	PASS
				VN	4.93	0.00265	PASS
				VH	-1.89	-0.00102	PASS
		MCH	TN	VL	-2.18	-0.00116	PASS
				VN	-0.07	-0.00004	PASS
				VH	-3.62	-0.00193	PASS
		HCH	TN	VL	5.02	0.00264	PASS
				VN	-2.05	-0.00108	PASS
				VH	-4.14	-0.00218	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 Band 2	LTE/TM1 20MHz	LCH	VN	-30	-0.95	-0.00051	PASS
				-20	6.07	0.00327	PASS
				-10	5.92	0.00318	PASS
				0	3.42	0.00184	PASS
				10	-0.12	-0.00007	PASS
				20	-1.48	-0.00080	PASS
				30	1.44	0.00077	PASS
				40	0.43	0.00023	PASS
				50	2.88	0.00155	PASS
		MCH	VN	-30	-4.38	-0.00233	PASS
				-20	-1.46	-0.00077	PASS
				-10	3.72	0.00198	PASS
				0	6.43	0.00342	PASS
				10	-5.63	-0.00299	PASS
				20	6.93	0.00369	PASS
				30	-2.84	-0.00151	PASS
				40	4.16	0.00221	PASS
				50	-4.97	-0.00264	PASS
		HCH	VN	-30	-1.65	-0.00087	PASS
				-20	0.85	0.00045	PASS
				-10	-2.06	-0.00108	PASS
				0	-2.86	-0.00151	PASS
				10	3.12	0.00164	PASS
				20	0.92	0.00049	PASS
				30	-3.78	-0.00199	PASS
				40	6.45	0.00340	PASS
				50	6.16	0.00324	PASS



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Shenzhen Branch

Report No.: SZEM170100023101

Page: 234 of 235

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE Band 2	LTE/TM2 20MHz	LCH	VN	-30	3.13	0.00168	PASS
				-20	-5.99	-0.00322	PASS
				-10	1.90	0.00102	PASS
				0	-2.01	-0.00108	PASS
				10	-0.14	-0.00008	PASS
				20	2.31	0.00124	PASS
				30	2.12	0.00114	PASS
				40	3.73	0.00200	PASS
				50	-1.50	-0.00081	PASS
		MCH	VN	-30	-5.64	-0.00300	PASS
				-20	1.90	0.00101	PASS
				-10	2.50	0.00133	PASS
				0	-5.16	-0.00274	PASS
				10	5.70	0.00303	PASS
				20	1.73	0.00092	PASS
				30	-2.09	-0.00111	PASS
				40	-1.32	-0.00070	PASS
				50	-4.99	-0.00266	PASS
		HCH	VN	-30	-6.35	-0.00334	PASS
				-20	3.41	0.00179	PASS
				-10	3.74	0.00197	PASS
				0	6.11	0.00322	PASS
				10	4.91	0.00258	PASS
				20	-0.03	-0.00002	PASS
				30	-1.60	-0.00084	PASS
				40	0.40	0.00021	PASS
				50	3.87	0.00204	PASS

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Shenzhen Branch

Report No.: SZEM170100023101

Page: 235 of 235

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE Band 2	LTE/TM3 20MHz	LCH	VN	-30	5.07	0.00272	PASS
				-20	-4.69	-0.00252	PASS
				-10	-4.45	-0.00239	PASS
				0	4.01	0.00216	PASS
				10	5.65	0.00304	PASS
				20	-3.59	-0.00193	PASS
				30	-4.76	-0.00256	PASS
				40	-5.77	-0.00310	PASS
				50	-6.79	-0.00365	PASS
		MCH	VN	-30	4.26	0.00226	PASS
				-20	3.27	0.00174	PASS
				-10	-6.60	-0.00351	PASS
				0	-1.42	-0.00076	PASS
				10	1.35	0.00072	PASS
				20	-4.47	-0.00238	PASS
				30	-5.79	-0.00308	PASS
				40	0.22	0.00012	PASS
				50	1.57	0.00083	PASS
		HCH	VN	-30	4.54	0.00239	PASS
				-20	-3.70	-0.00195	PASS
				-10	1.87	0.00098	PASS
				0	-1.50	-0.00079	PASS
				10	6.09	0.00320	PASS
				20	0.85	0.00045	PASS
				30	-3.70	-0.00195	PASS
				40	-4.91	-0.00258	PASS
				50	-1.94	-0.00102	PASS

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