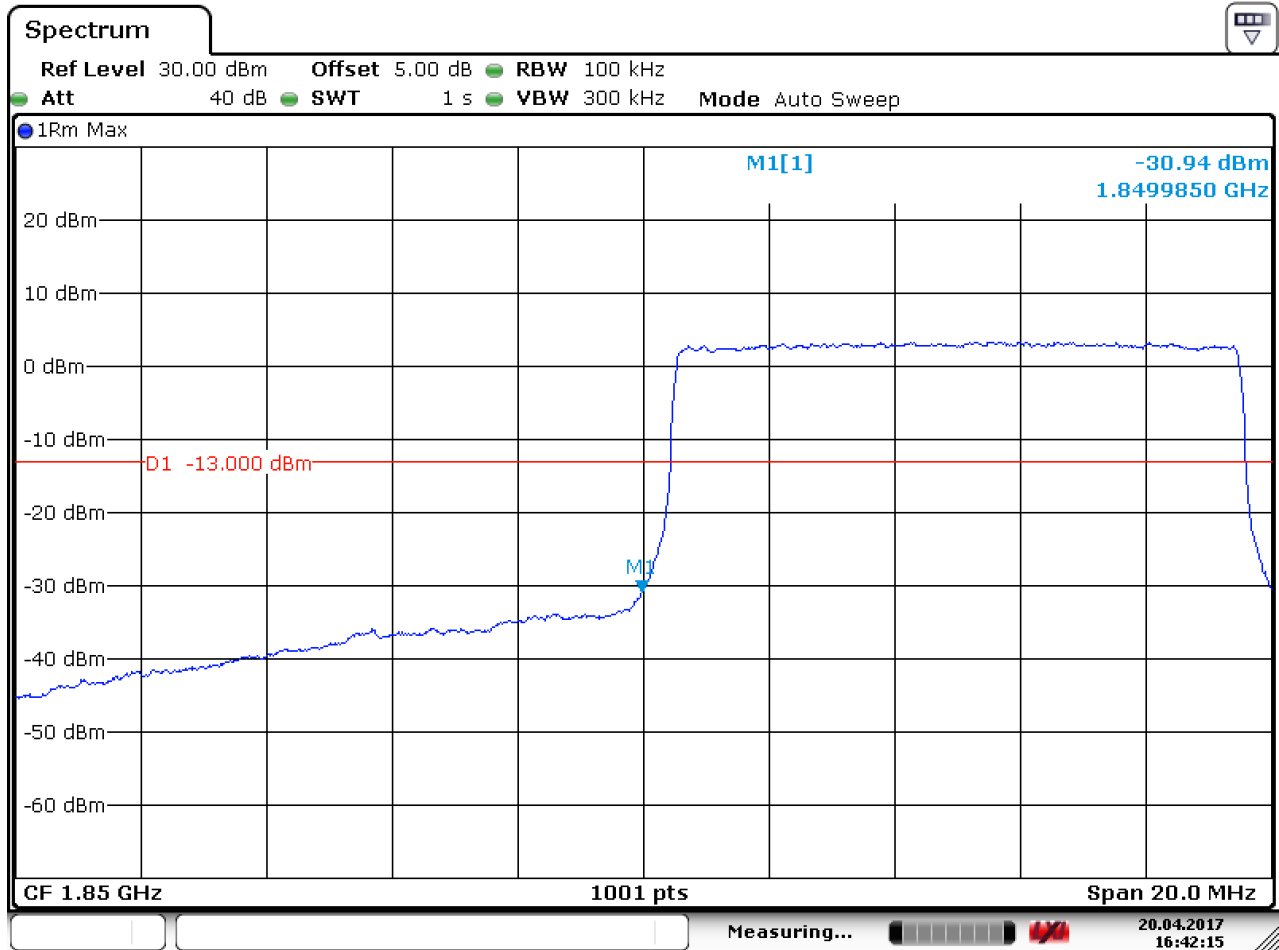




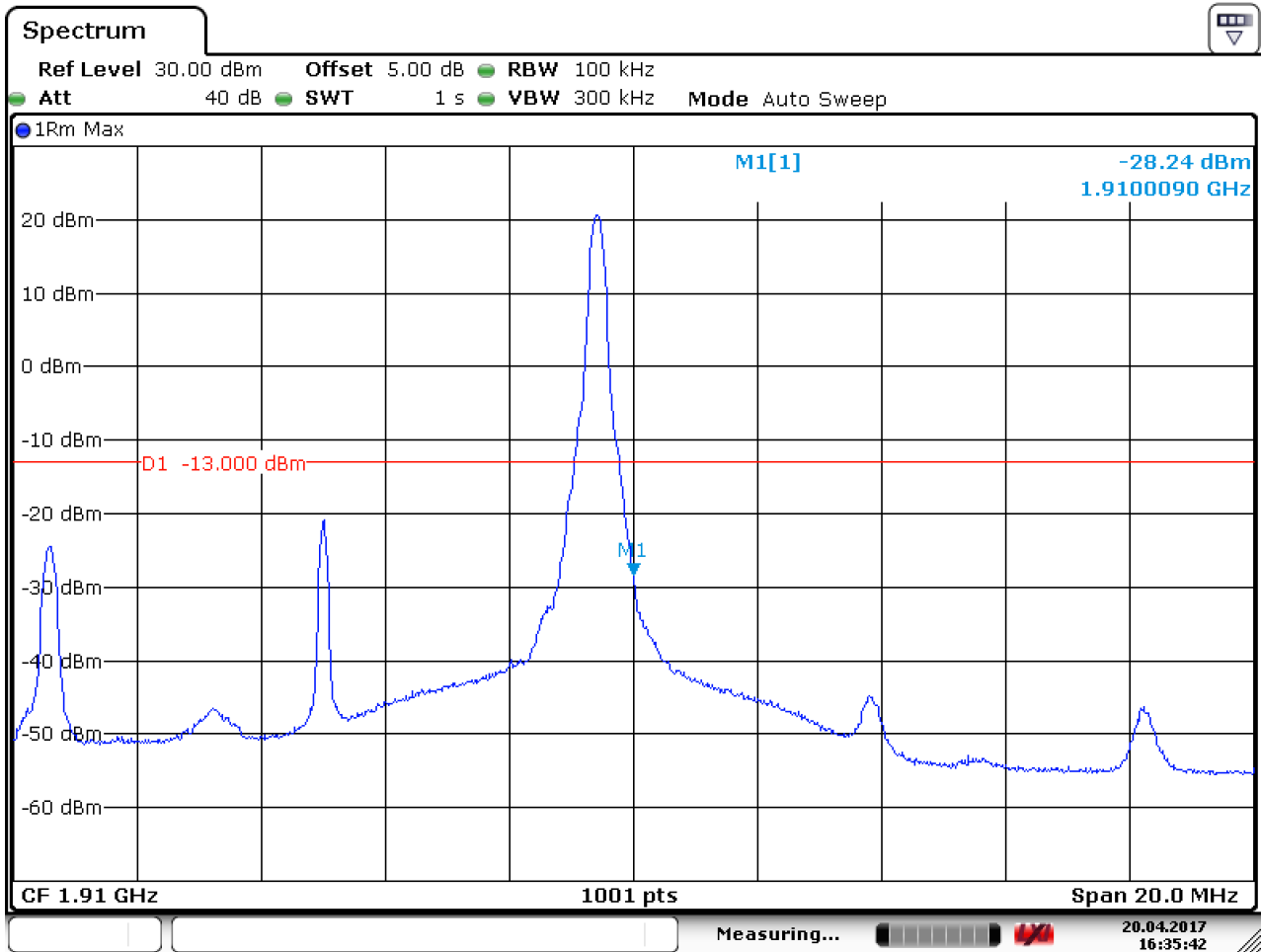
5.1.1.8.1.2 Test RB=50RB



Date: 20.APR.2017 16:42:15

5.1.1.8.2 Test Channel = HCH

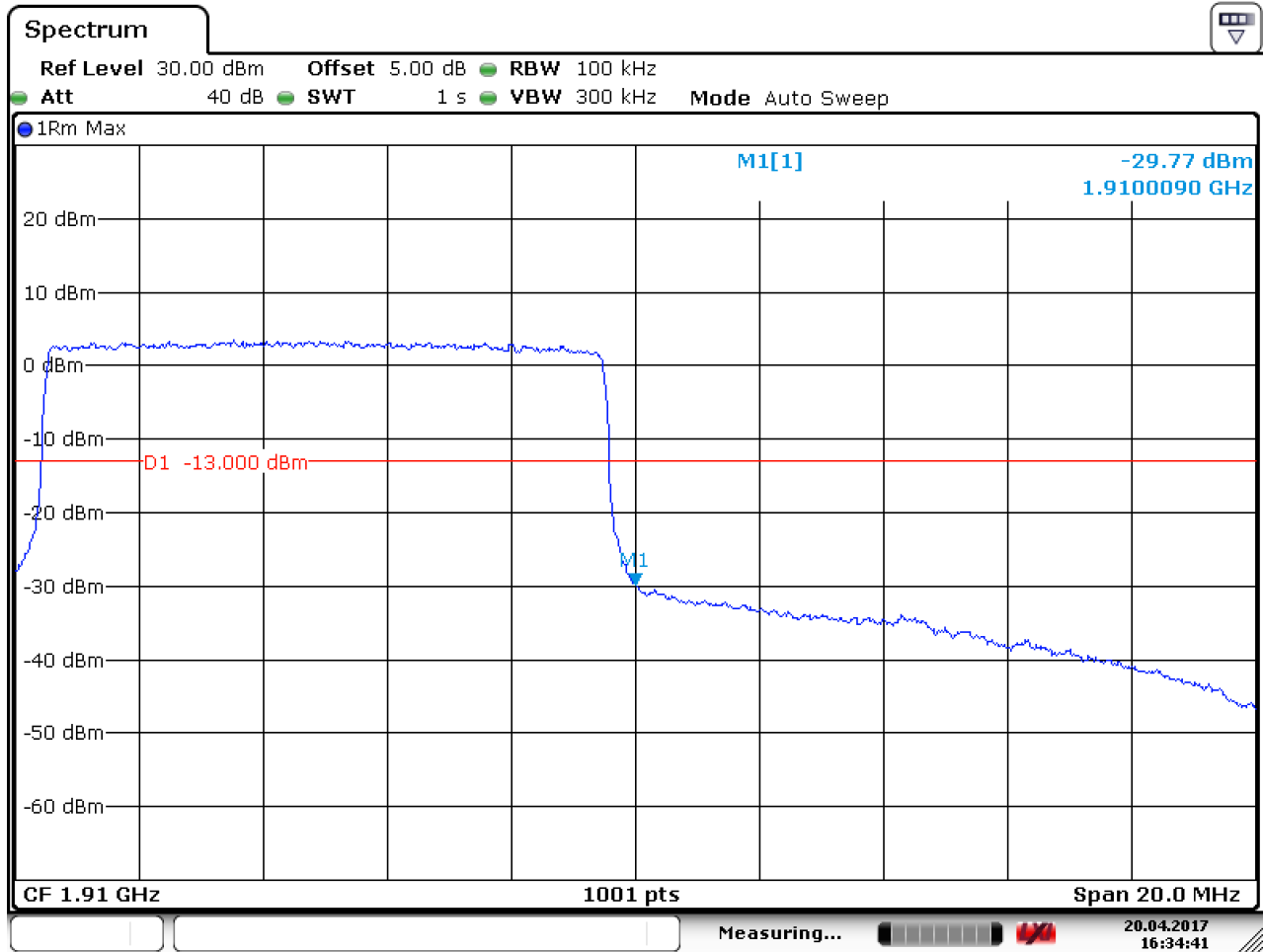
5.1.1.8.2.1 Test RB=1RB



Date: 20.APR.2017 16:35:42



5.1.1.8.2.2 Test RB=50RB

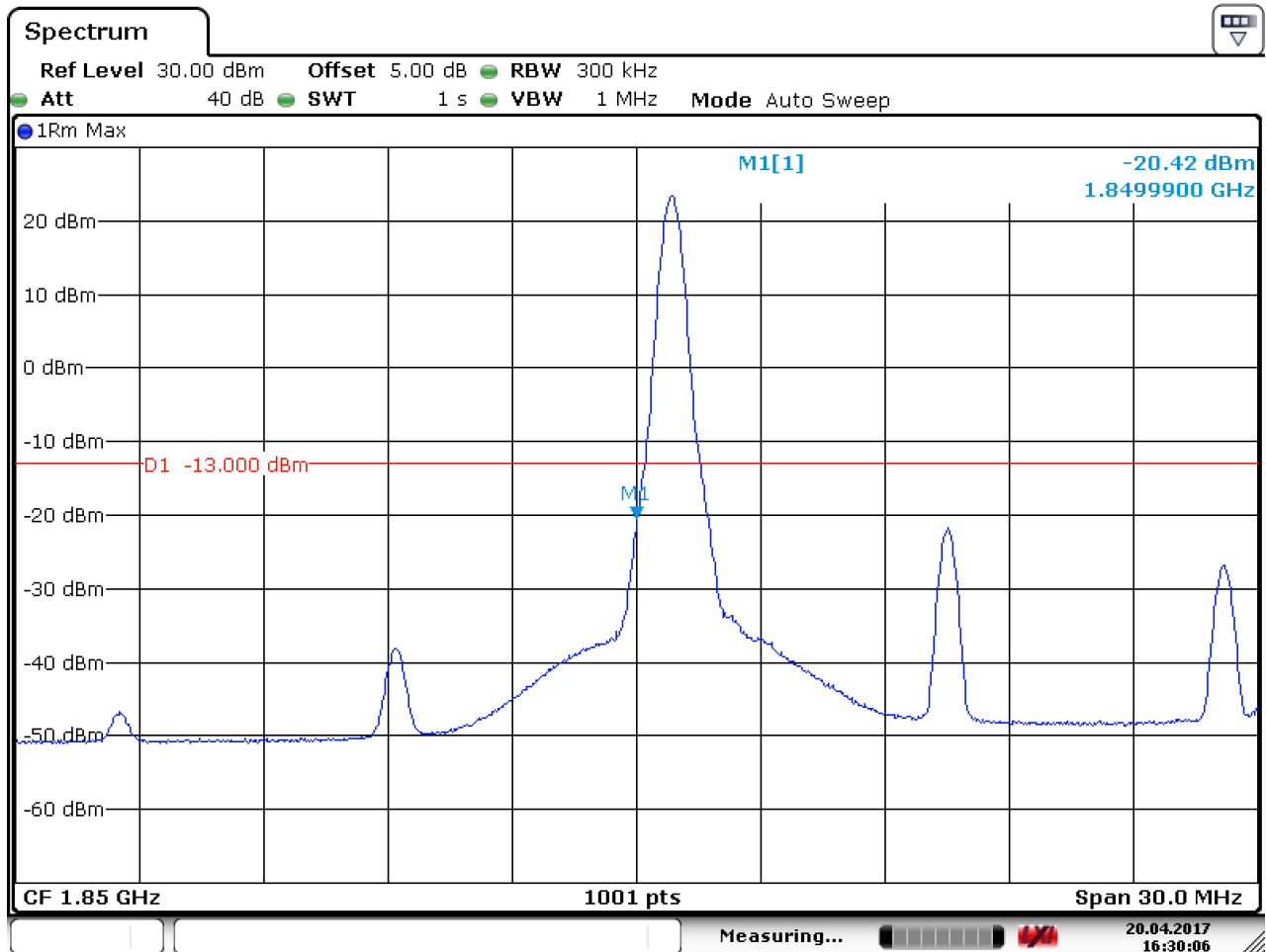


Date: 20.APR.2017 16:34:42



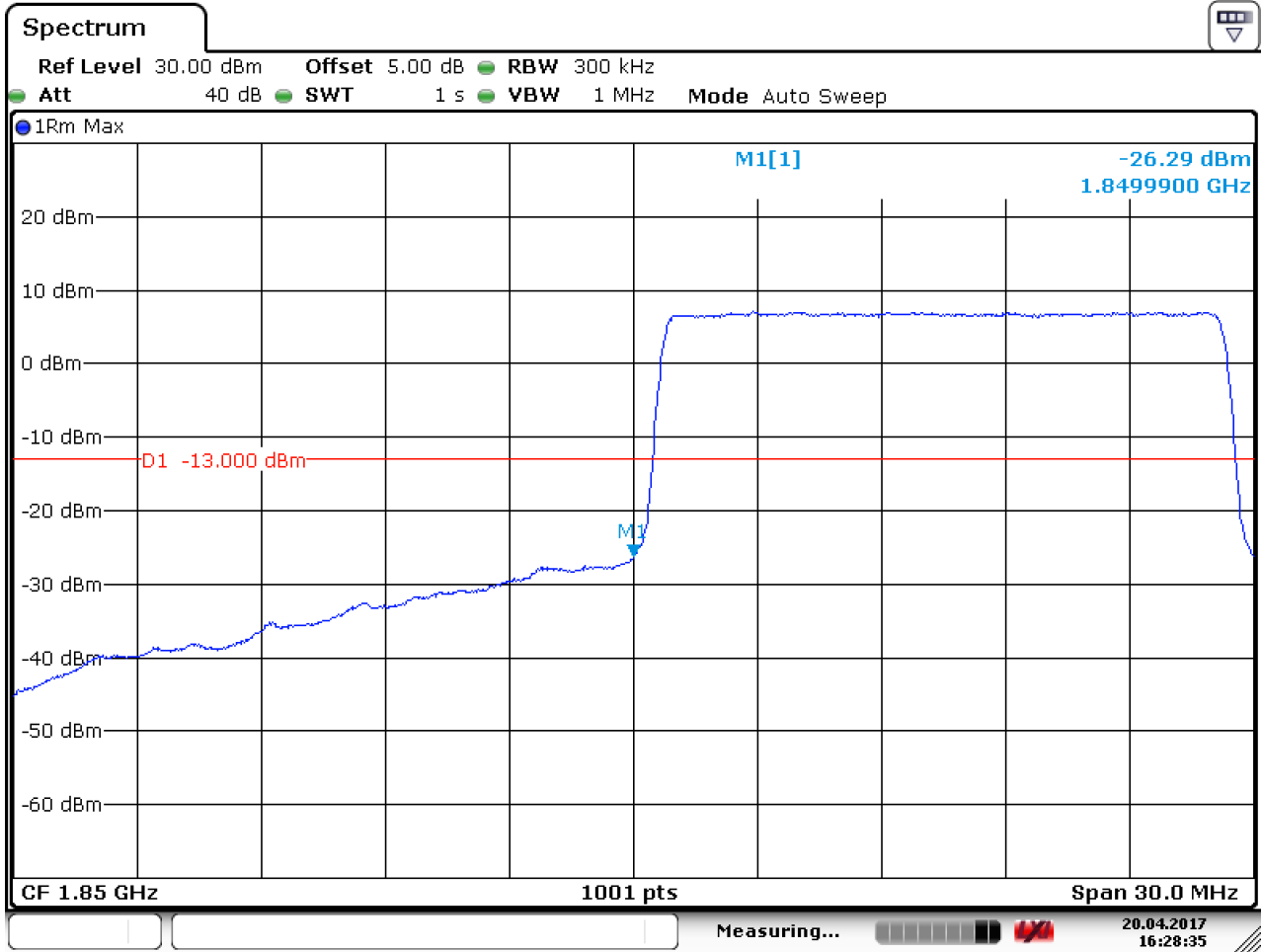
5.1.1.9 Test Mode = LTE/TM1 15MHz  
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 20.APR.2017 16:30:06

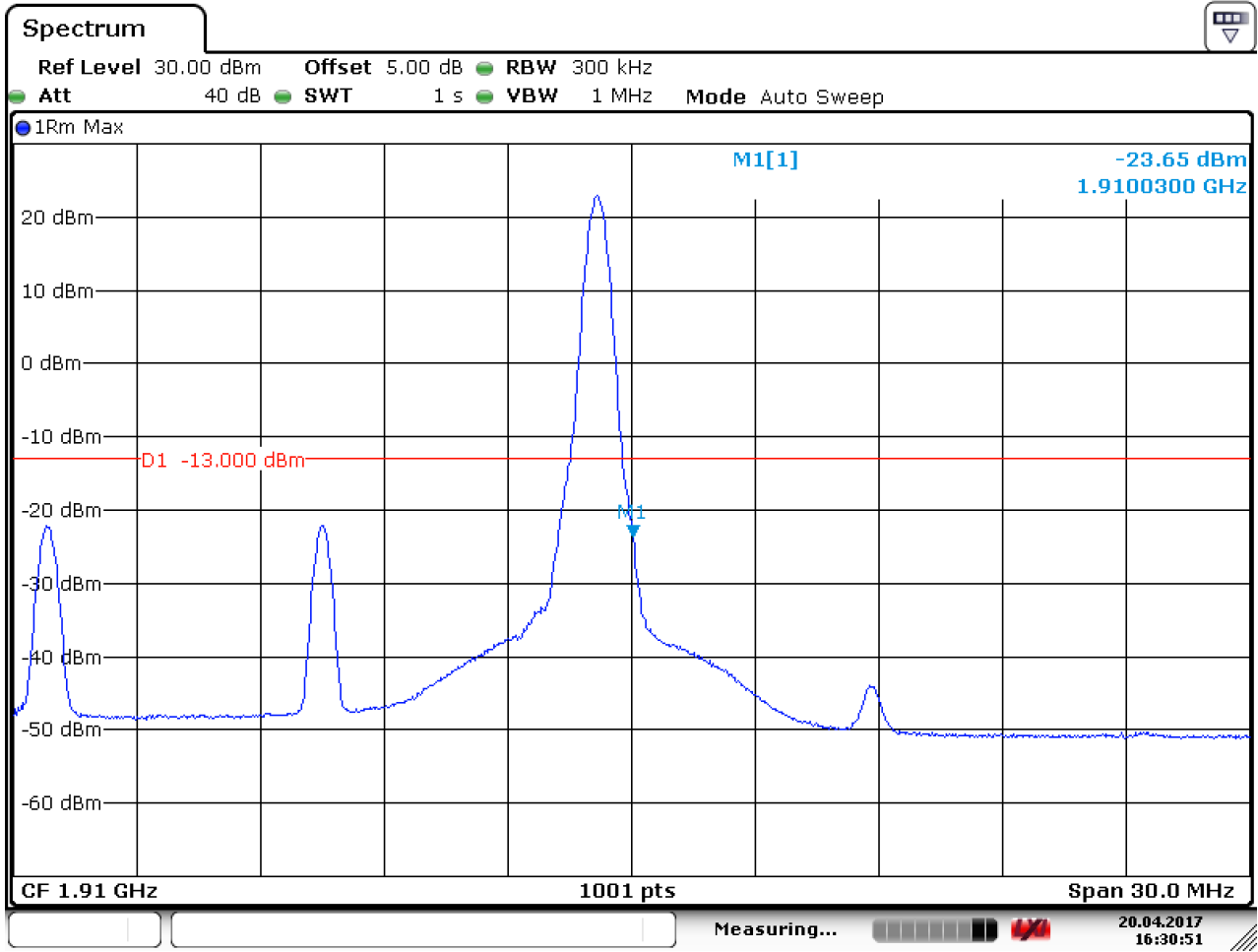
5.1.1.9.1.2 Test RB=75RB



Date: 20.APR.2017 16:28:36

5.1.1.9.2 Test Channel = HCH

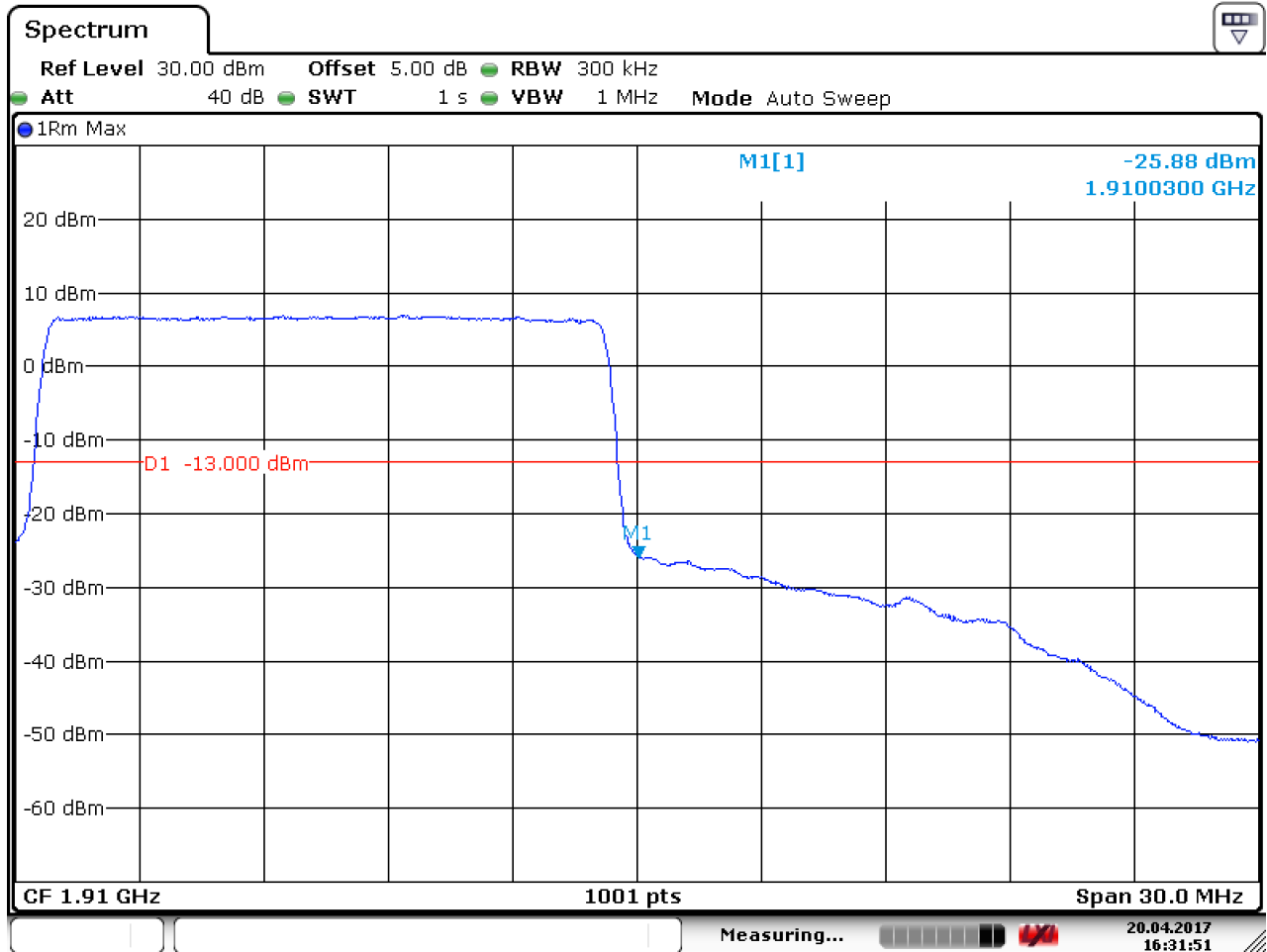
5.1.1.9.2.1 Test RB=1RB



Date: 20.APR.2017 16:30:51



5.1.1.9.2.2 Test RB=75RB



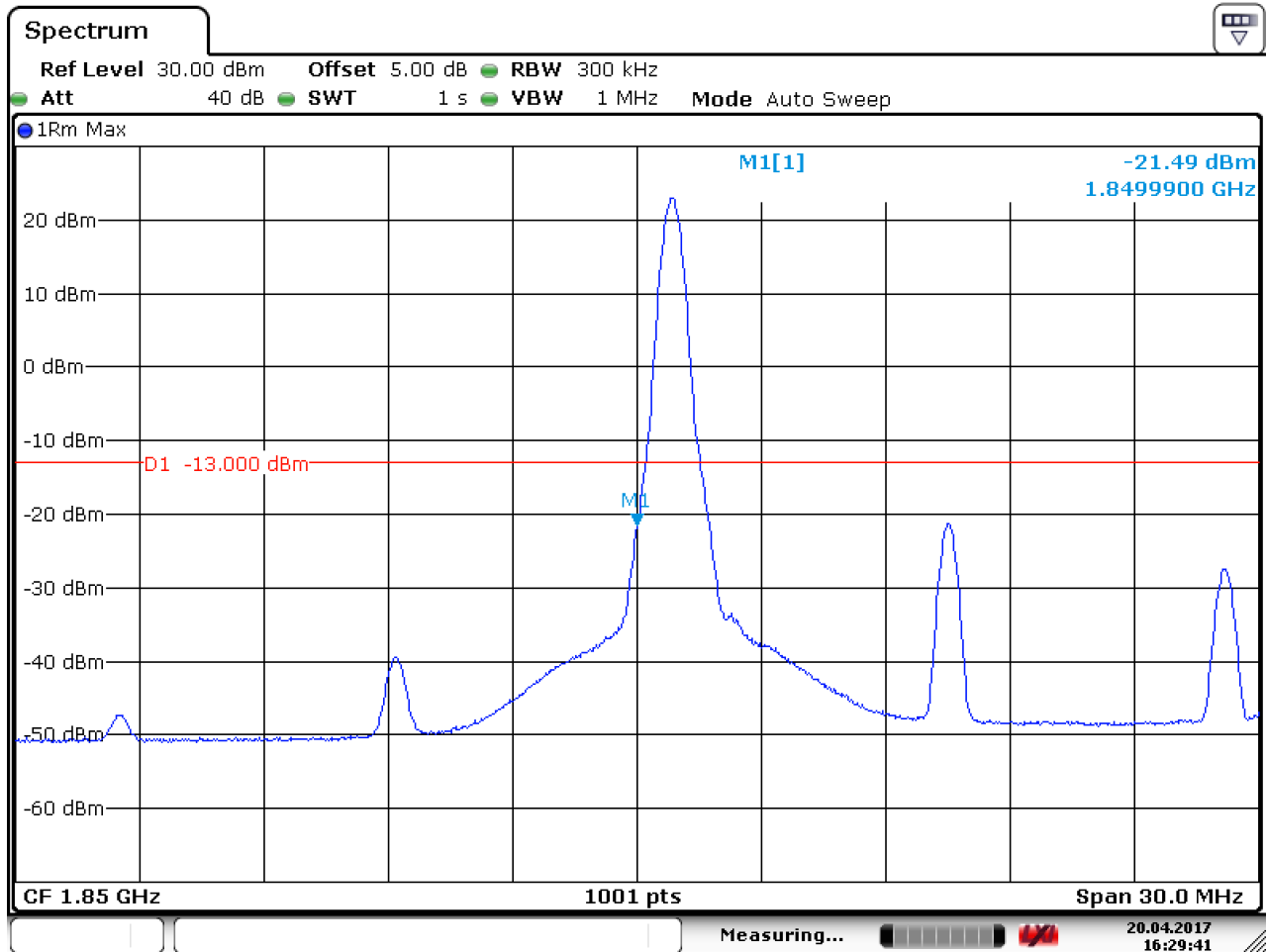
Date: 20.APR.2017 16:31:51



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

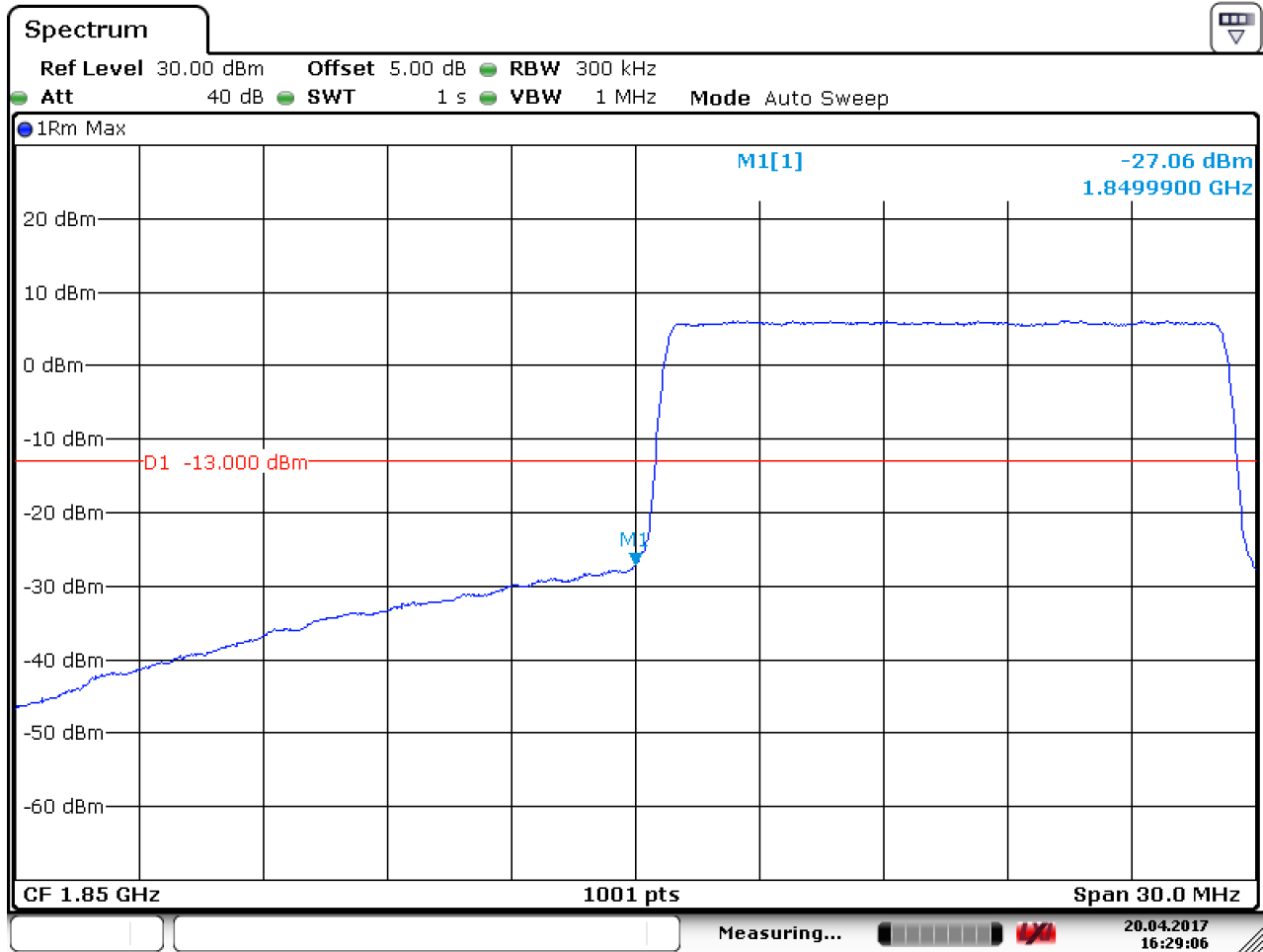


Date: 20.APR.2017 16:29:41





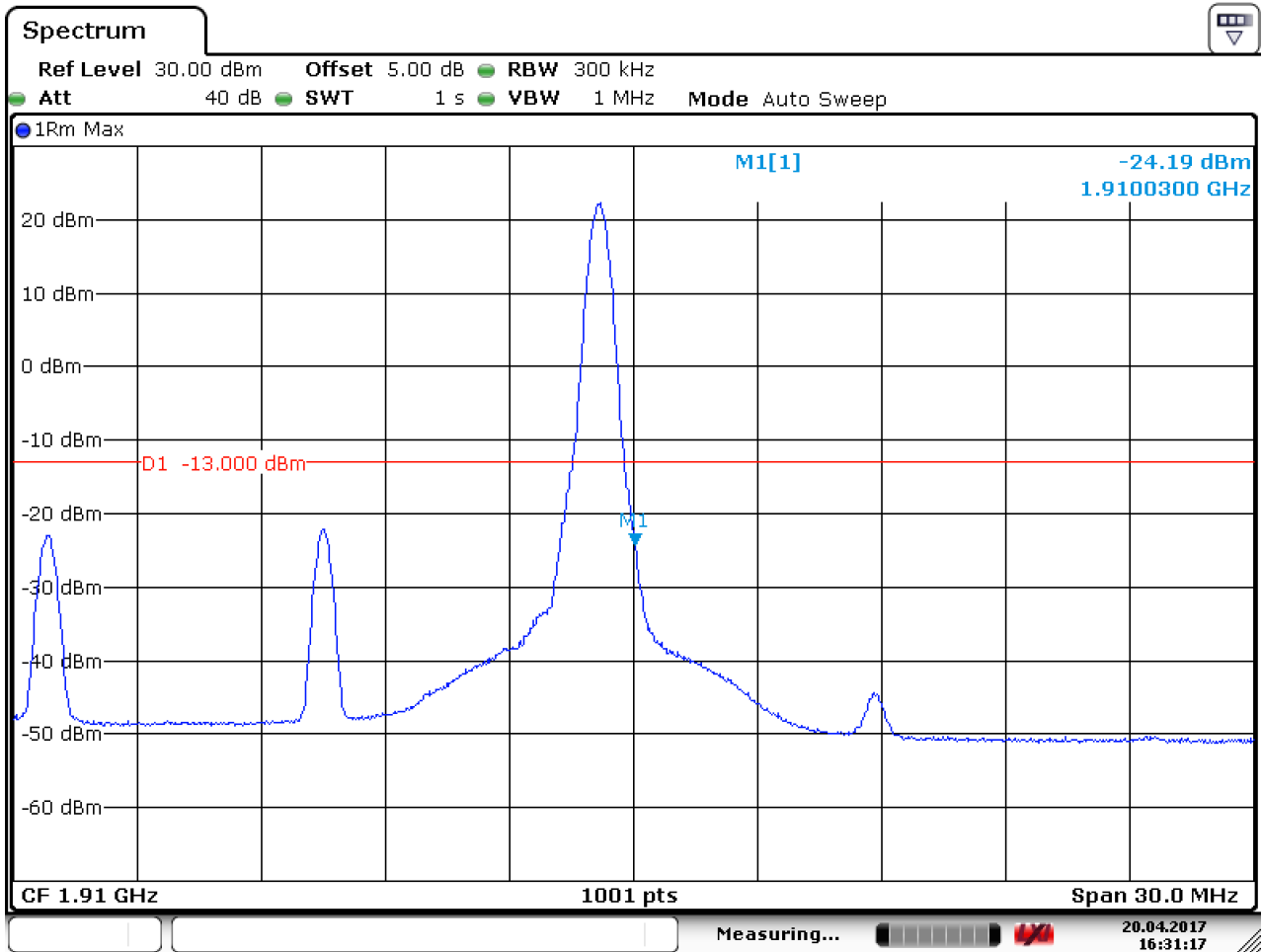
5.1.1.10.1.2 Test RB=75RB



Date: 20.APR.2017 16:29:06

**5.1.1.10.2 Test Channel = HCH**

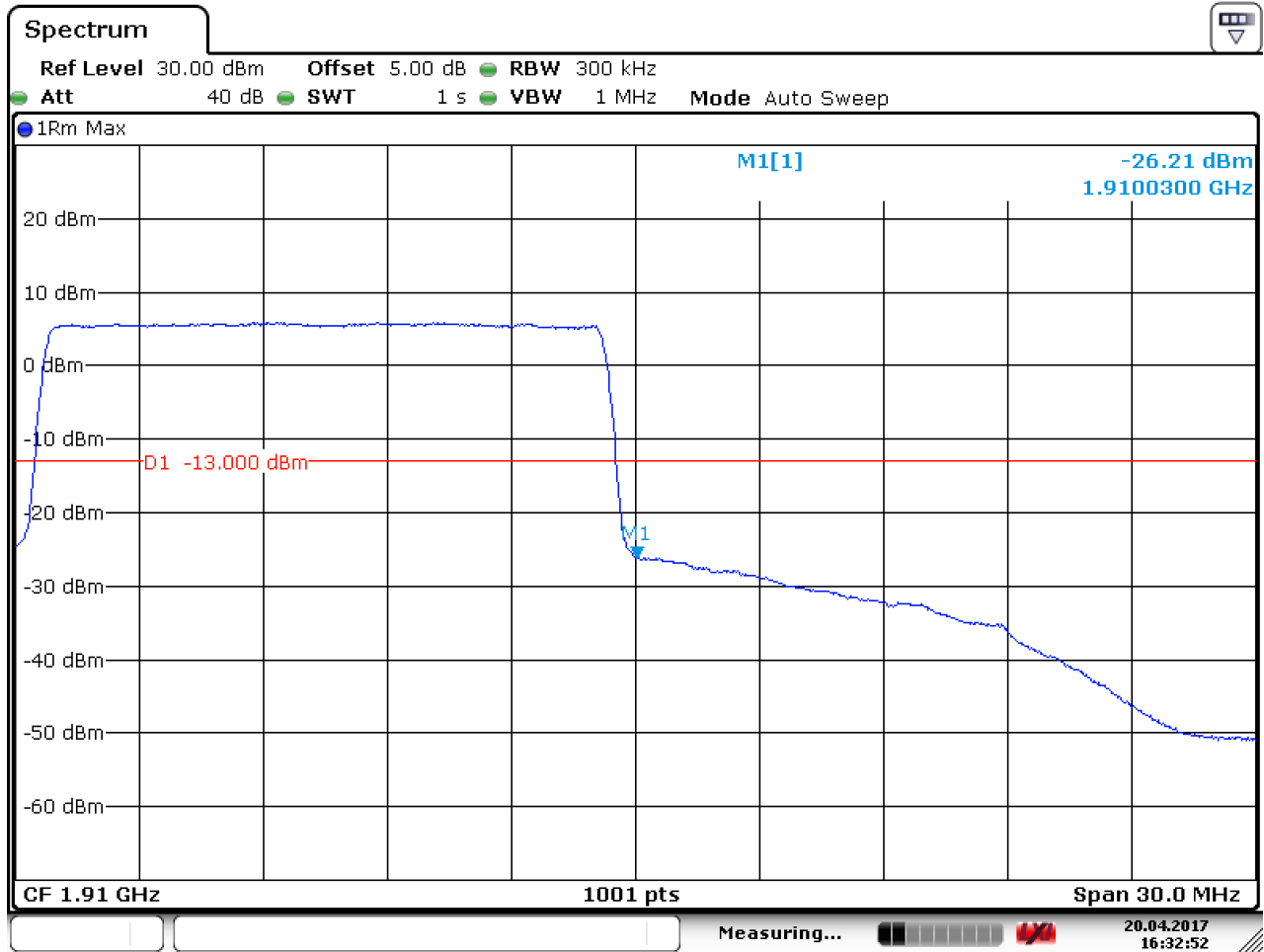
**5.1.1.10.2.1 Test RB=1RB**



Date: 20.APR.2017 16:31:17



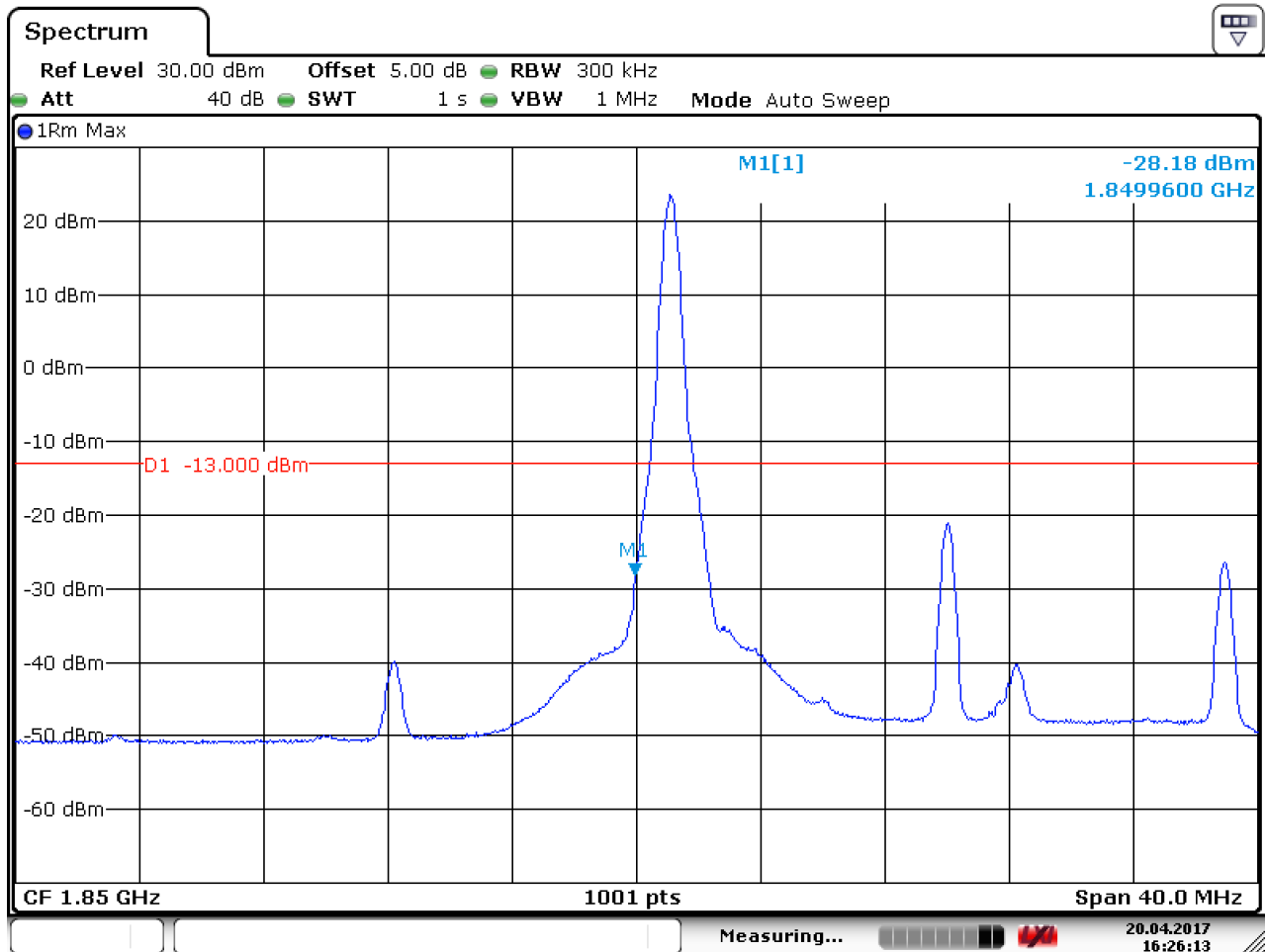
5.1.1.10.2.2 Test RB=75RB



Date: 20.APR.2017 16:32:52

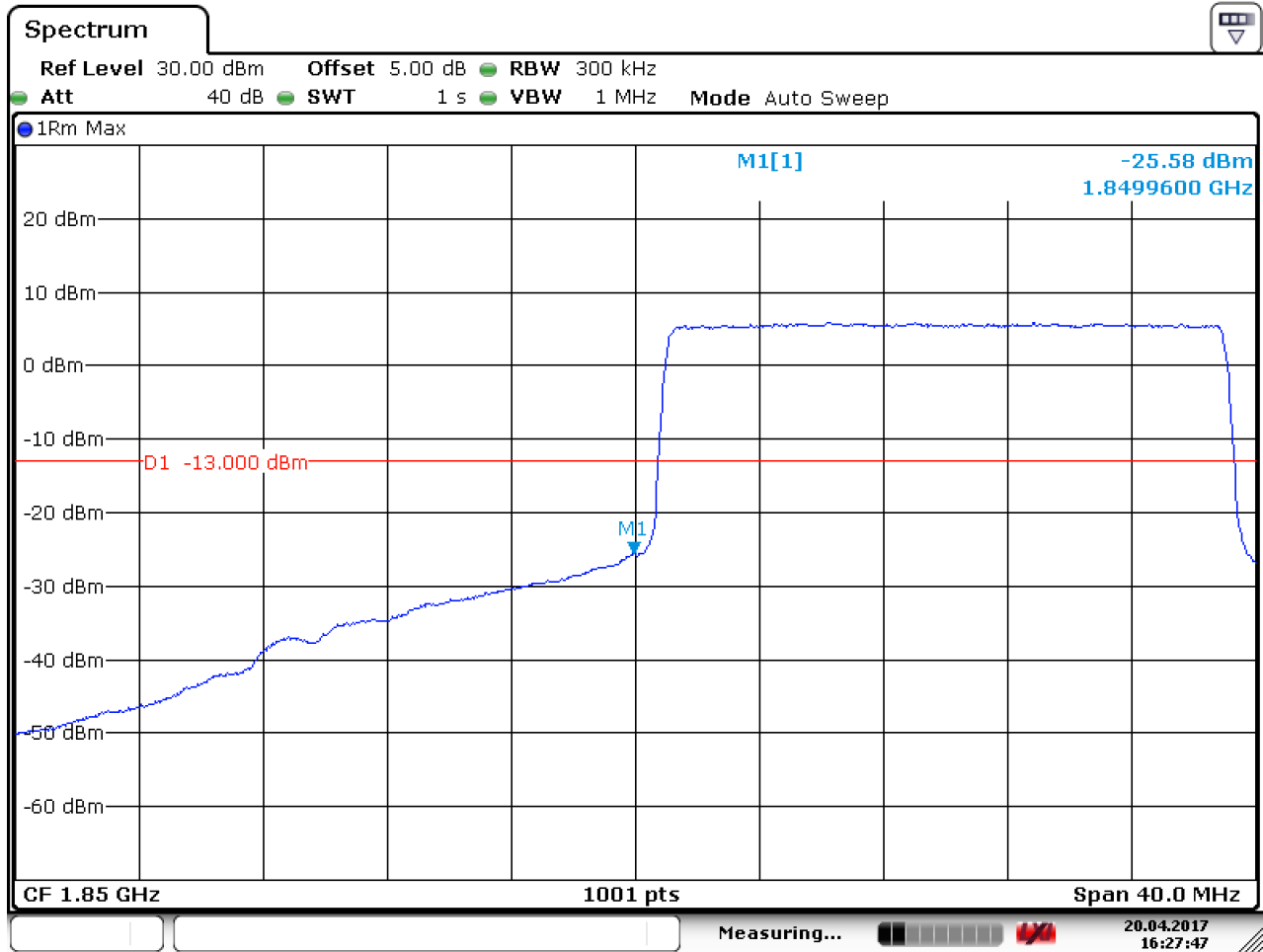


5.1.1.11 Test Mode = LTE/TM1 20MHz  
5.1.1.11.1 Test Channel = LCH  
5.1.1.11.1.1 Test RB=1RB



Date: 20.APR.2017 16:26:13

5.1.1.11.1.2 Test RB=100RB

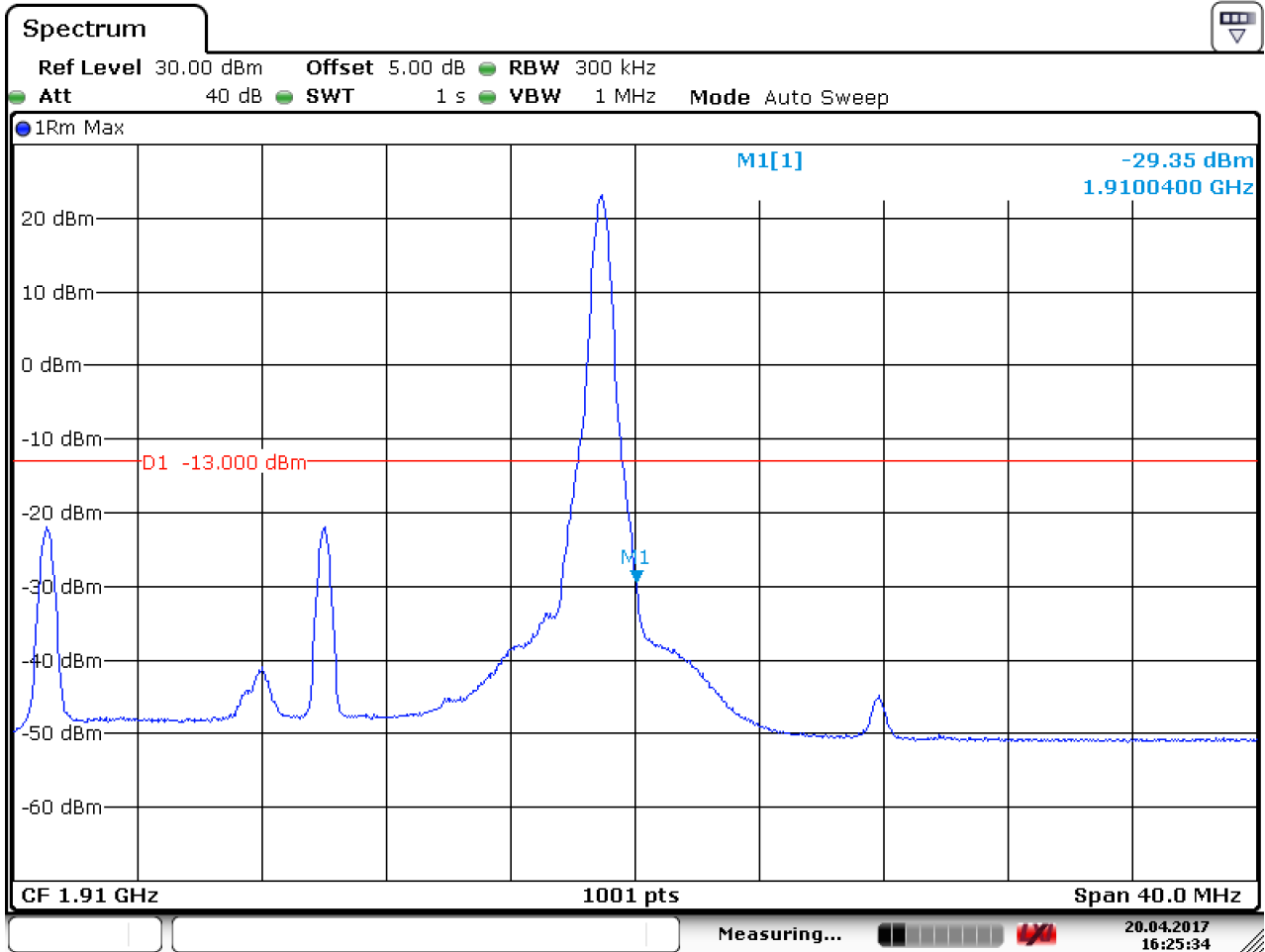


Date: 20.APR.2017 16:27:47



5.1.1.11.2 Test Channel = HCH

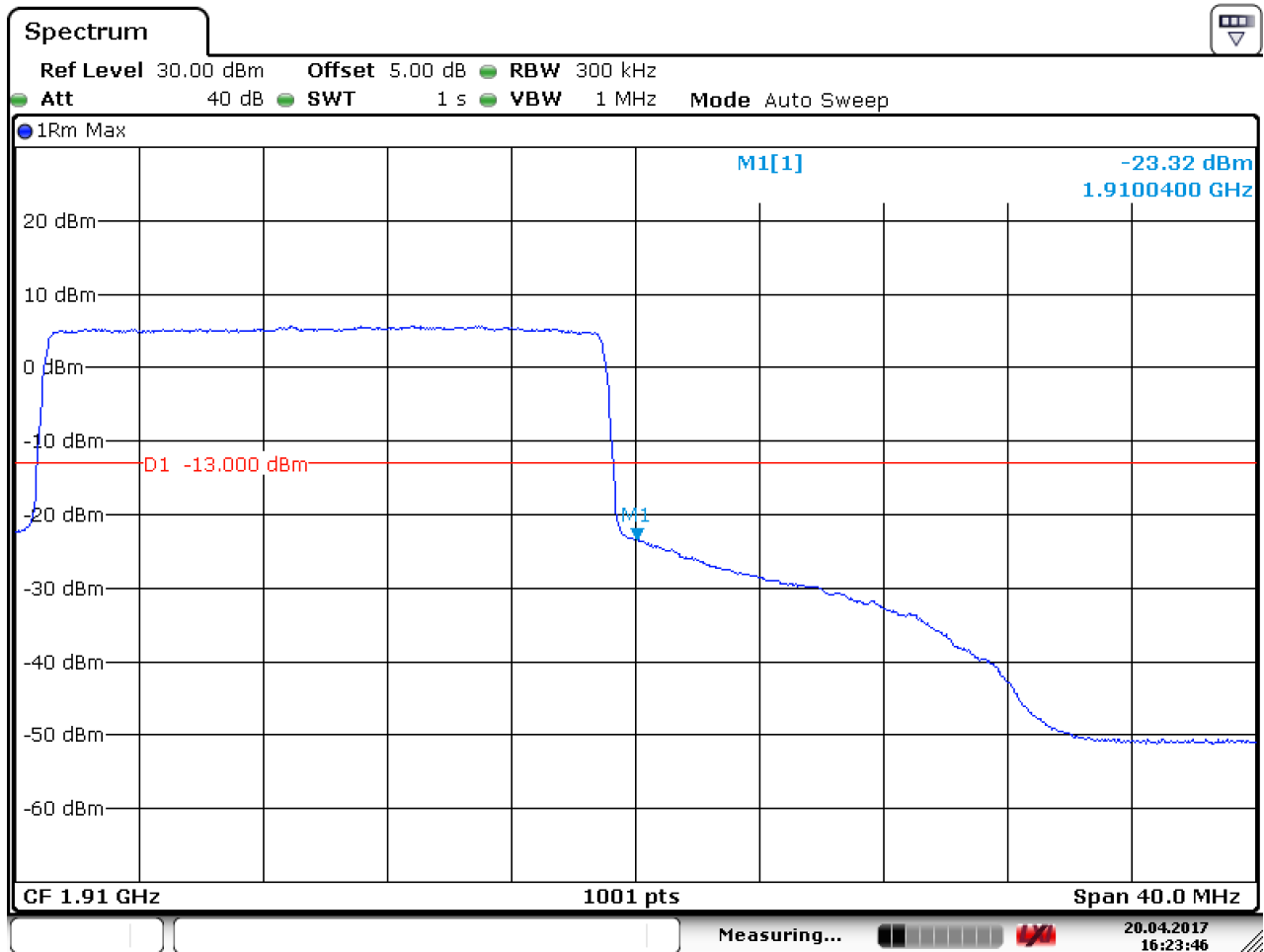
5.1.1.11.2.1 Test RB=1RB



Date: 20.APR.2017 16:25:35



5.1.1.11.2.2 Test RB=100RB



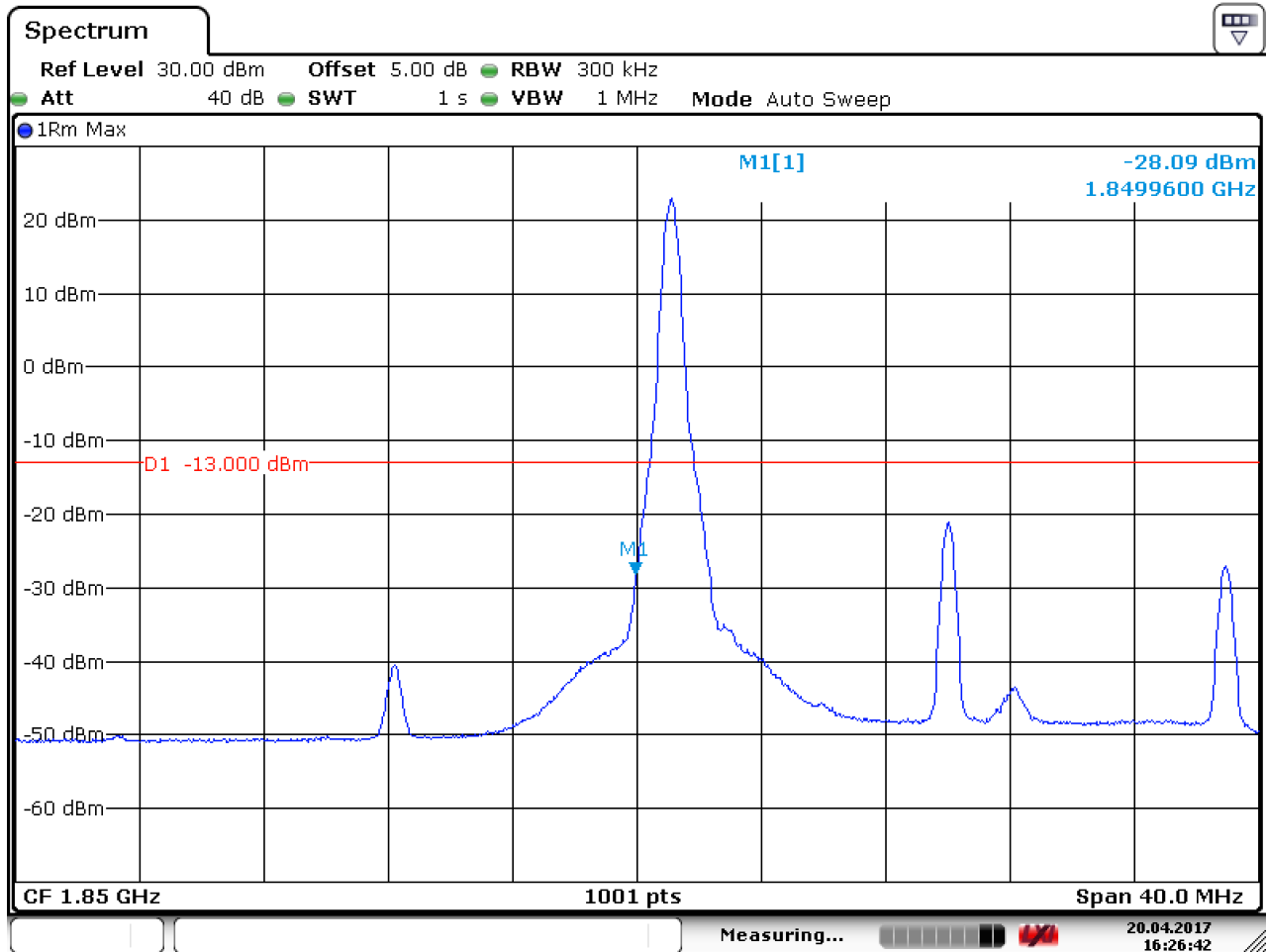
Date: 20.APR.2017 16:23:46



5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH

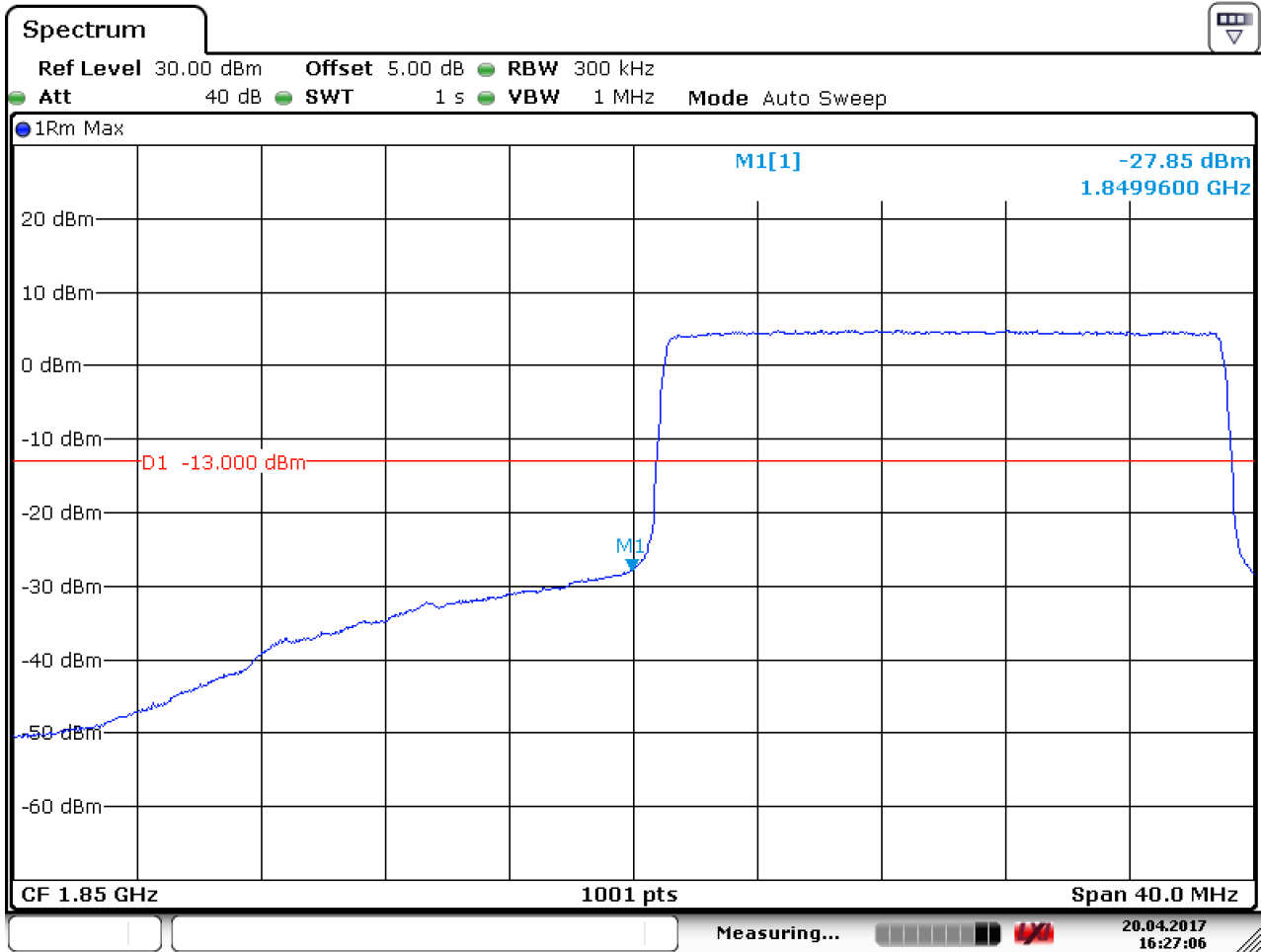
5.1.1.12.1.1 Test RB=1RB



Date: 20.APR.2017 16:26:43



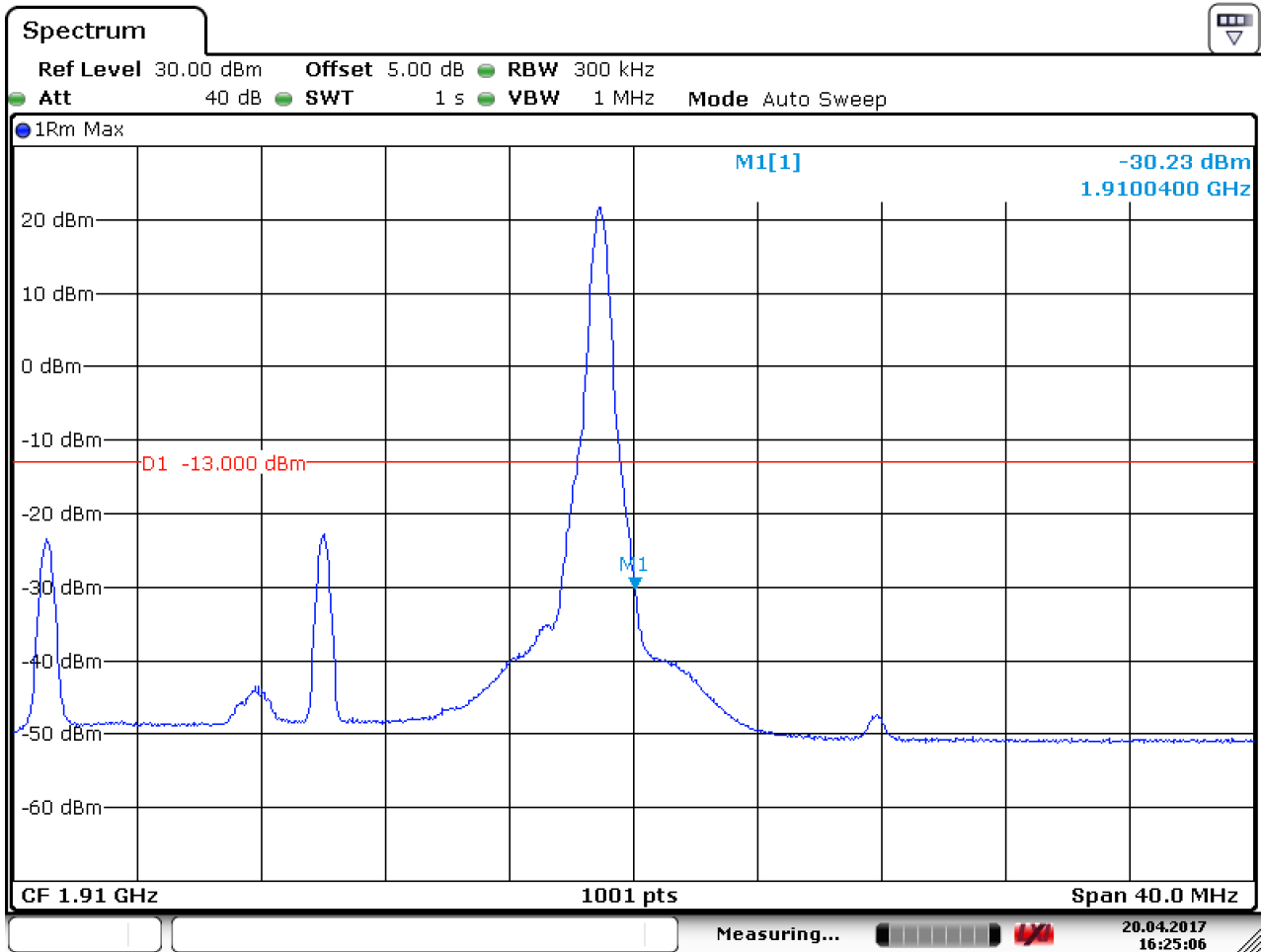
5.1.1.12.1.2 Test RB=100RB



Date: 20.APR.2017 16:27:06

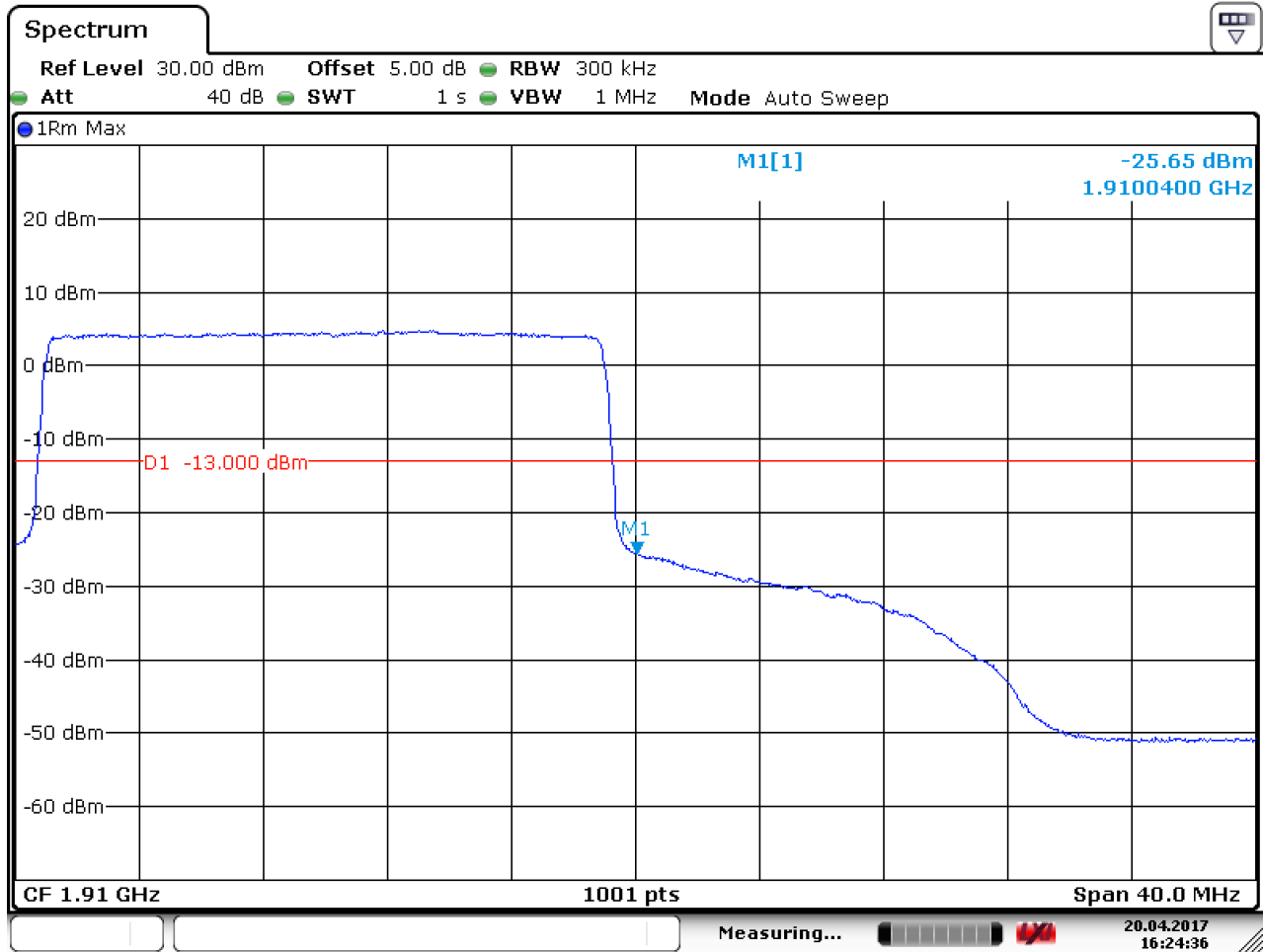
5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 20.APR.2017 16:25:06

5.1.1.12.2.2 Test RB=100RB



Date: 20.APR.2017 16:24:36

## 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.

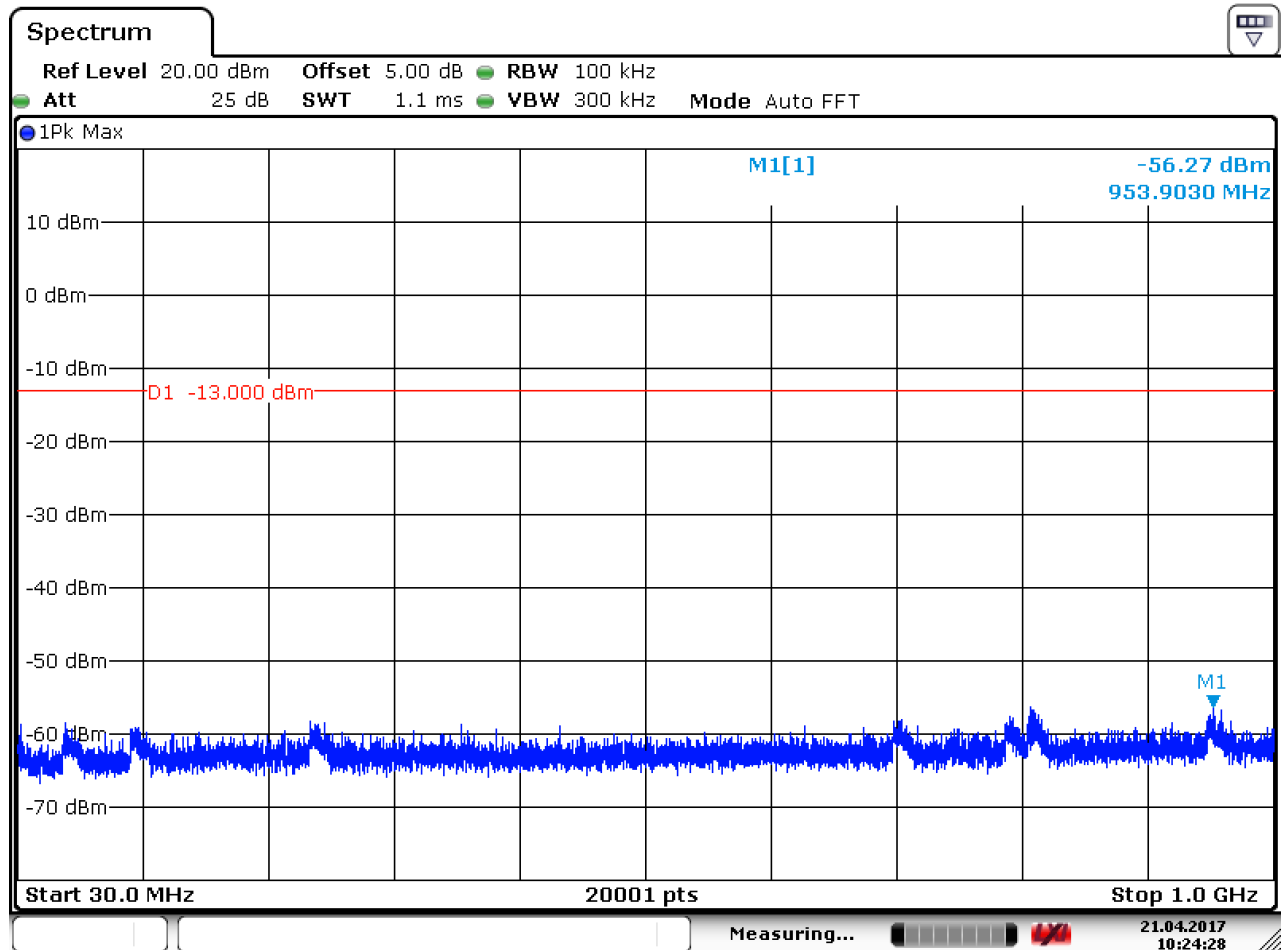
Part I - Test Plots

### 6.1 For LTE

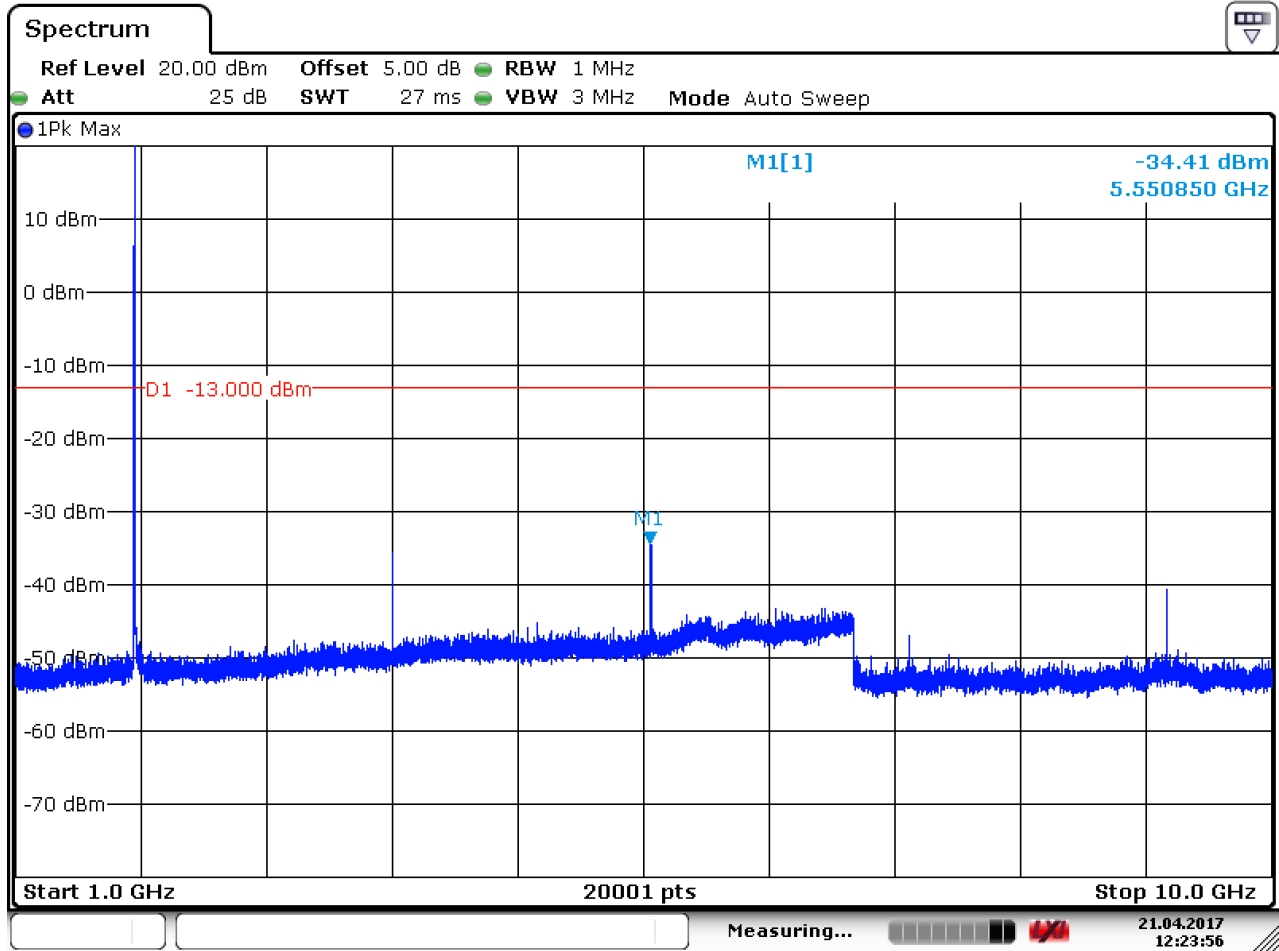
#### 6.1.1 Test Band = LTE band2

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

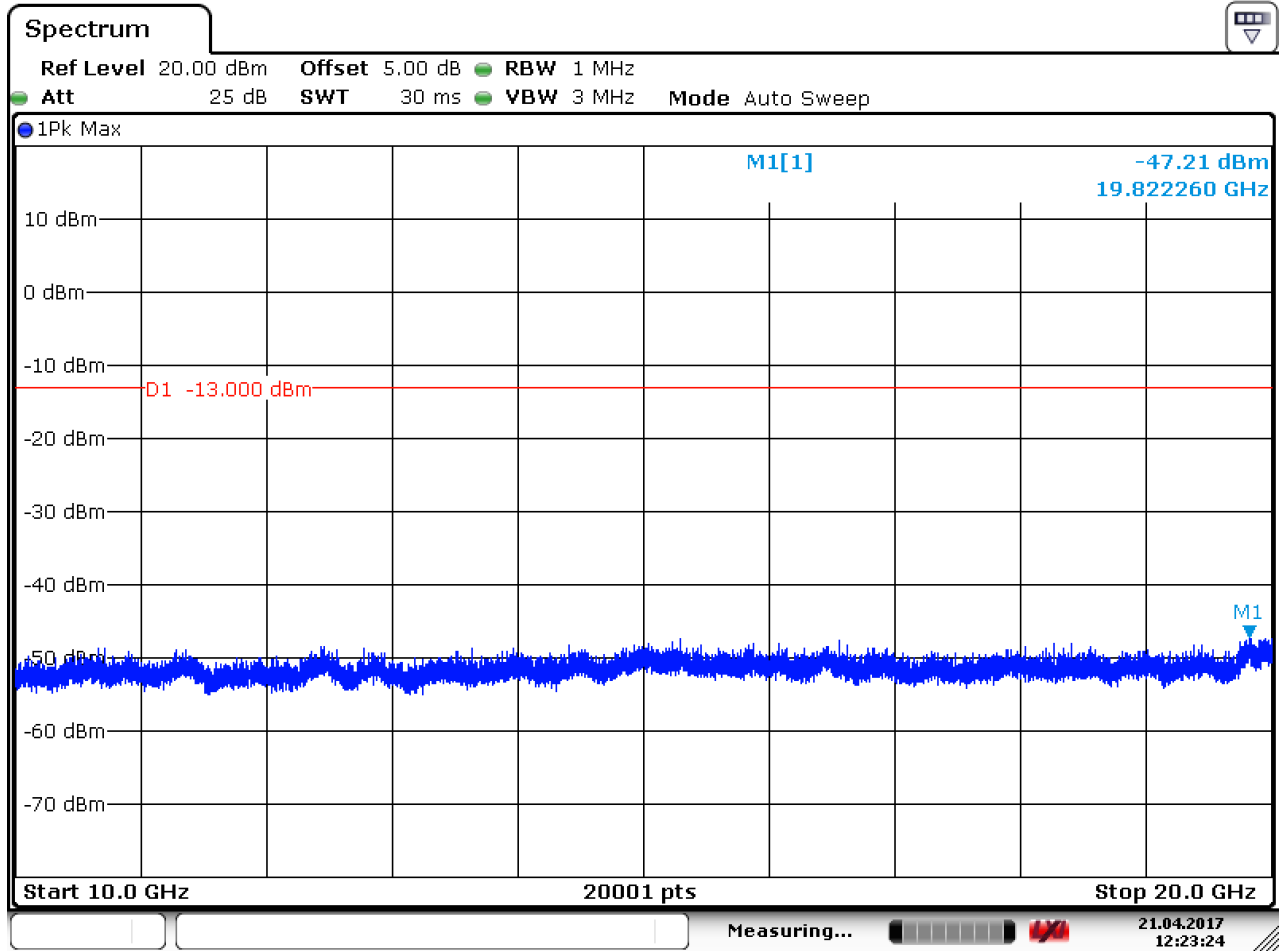
##### 6.1.1.1.1 Test Channel = LCH



Date: 21.APR.2017 10:24:28



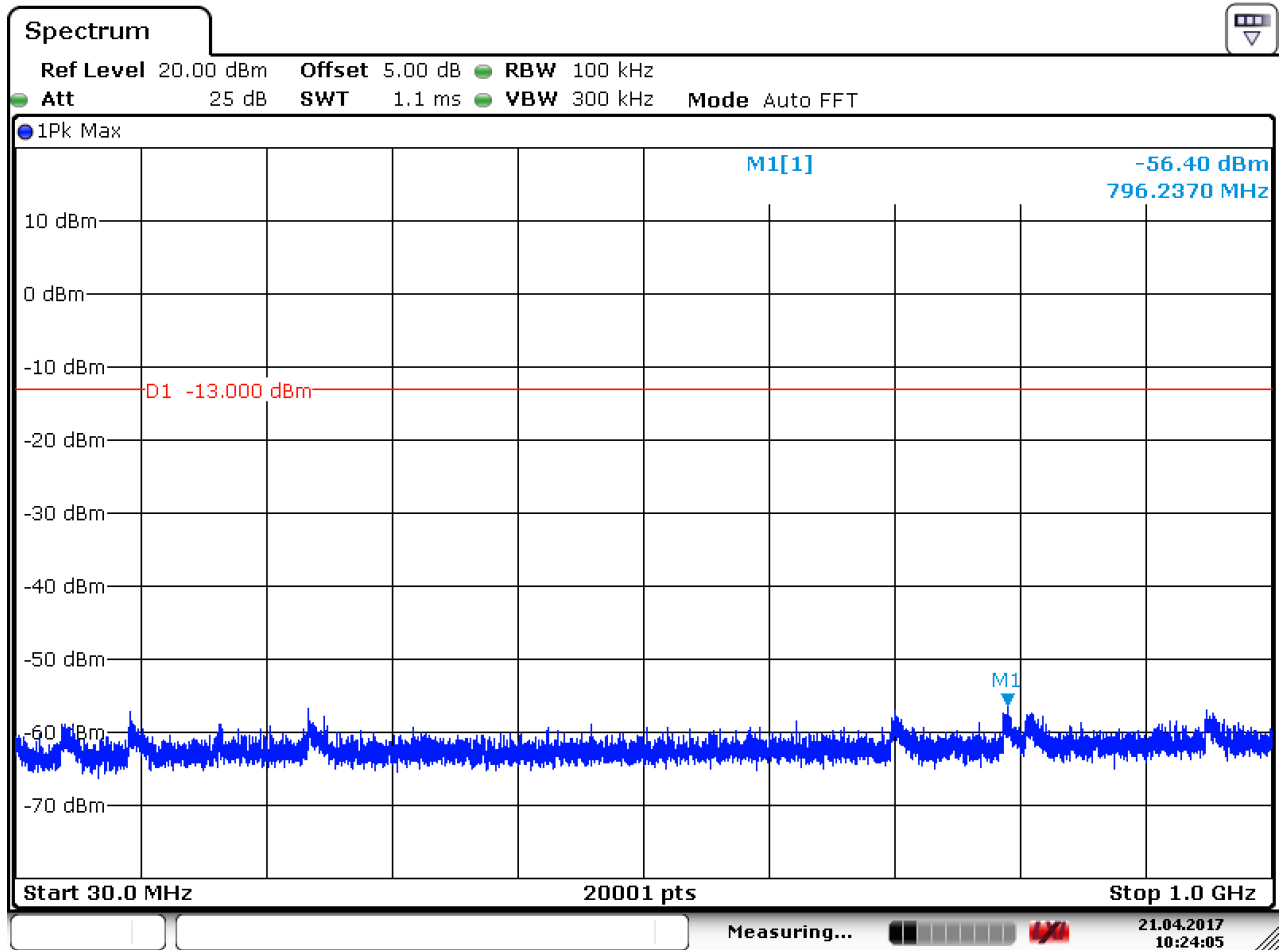
Date: 21.APR.2017 12:23:57



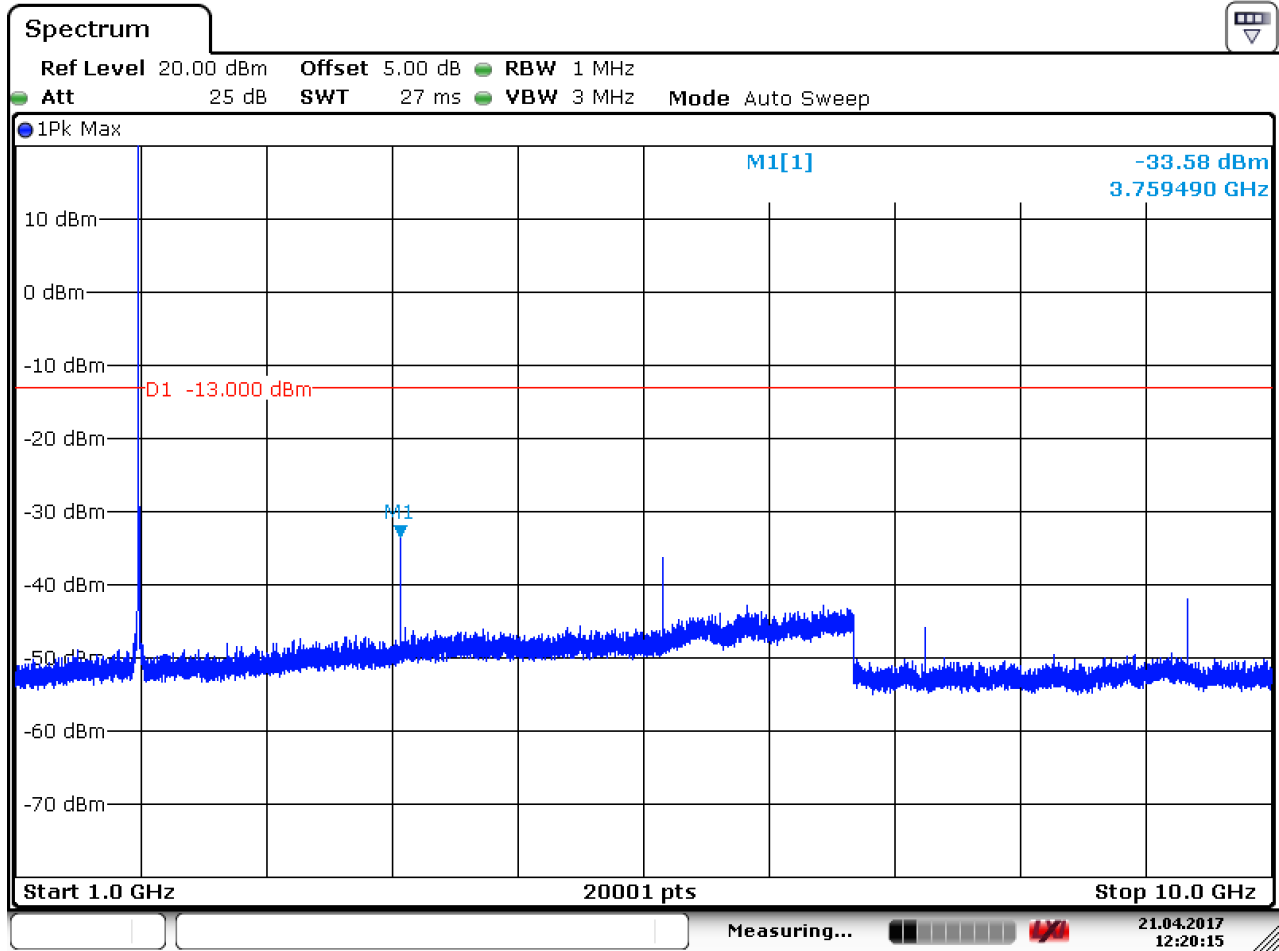
Date: 21.APR.2017 12:23:24



6.1.1.1.2 Test Channel = MCH

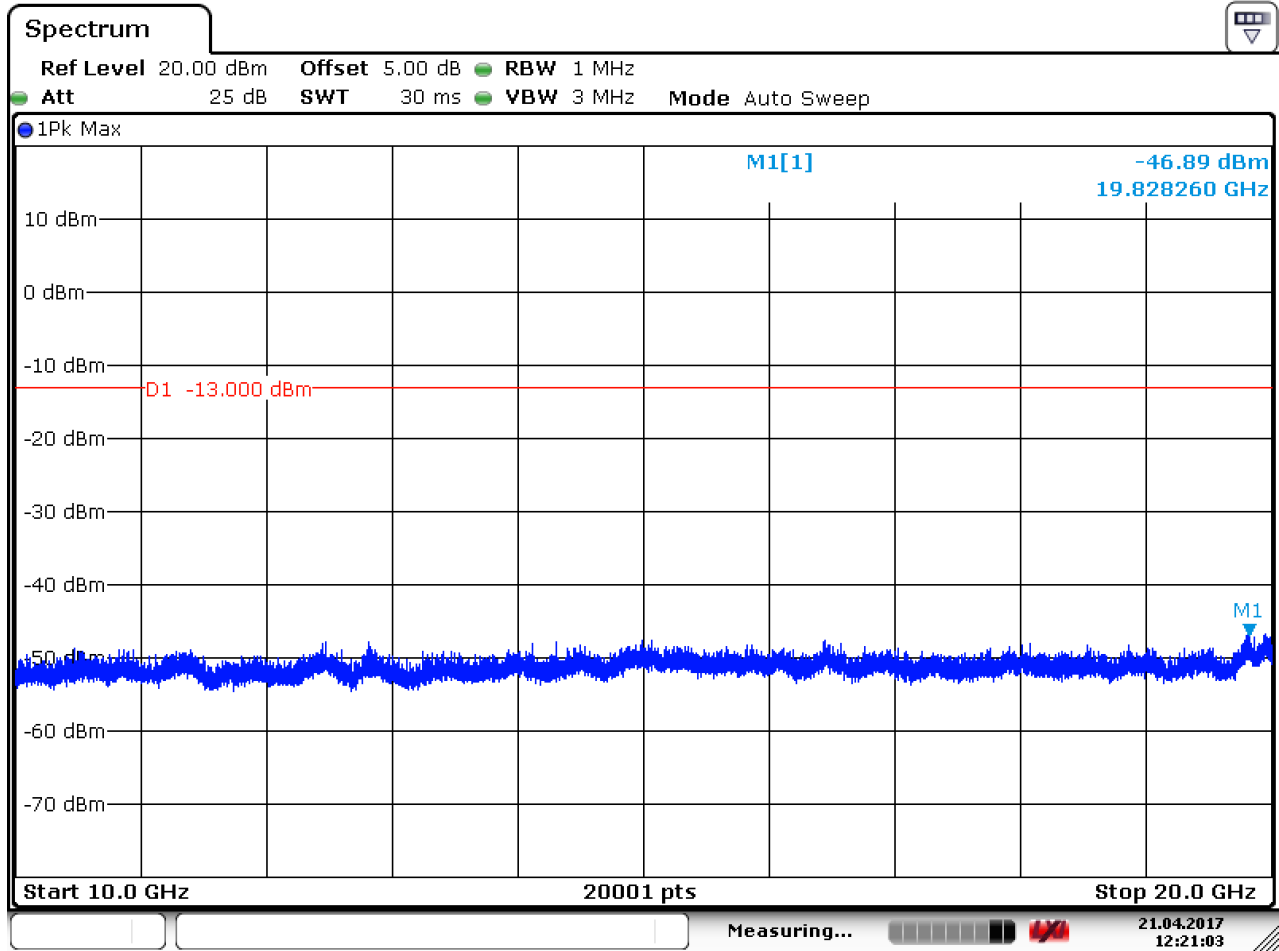


Date: 21.APR.2017 10:24:05



Date: 21.APR.2017 12:20:15

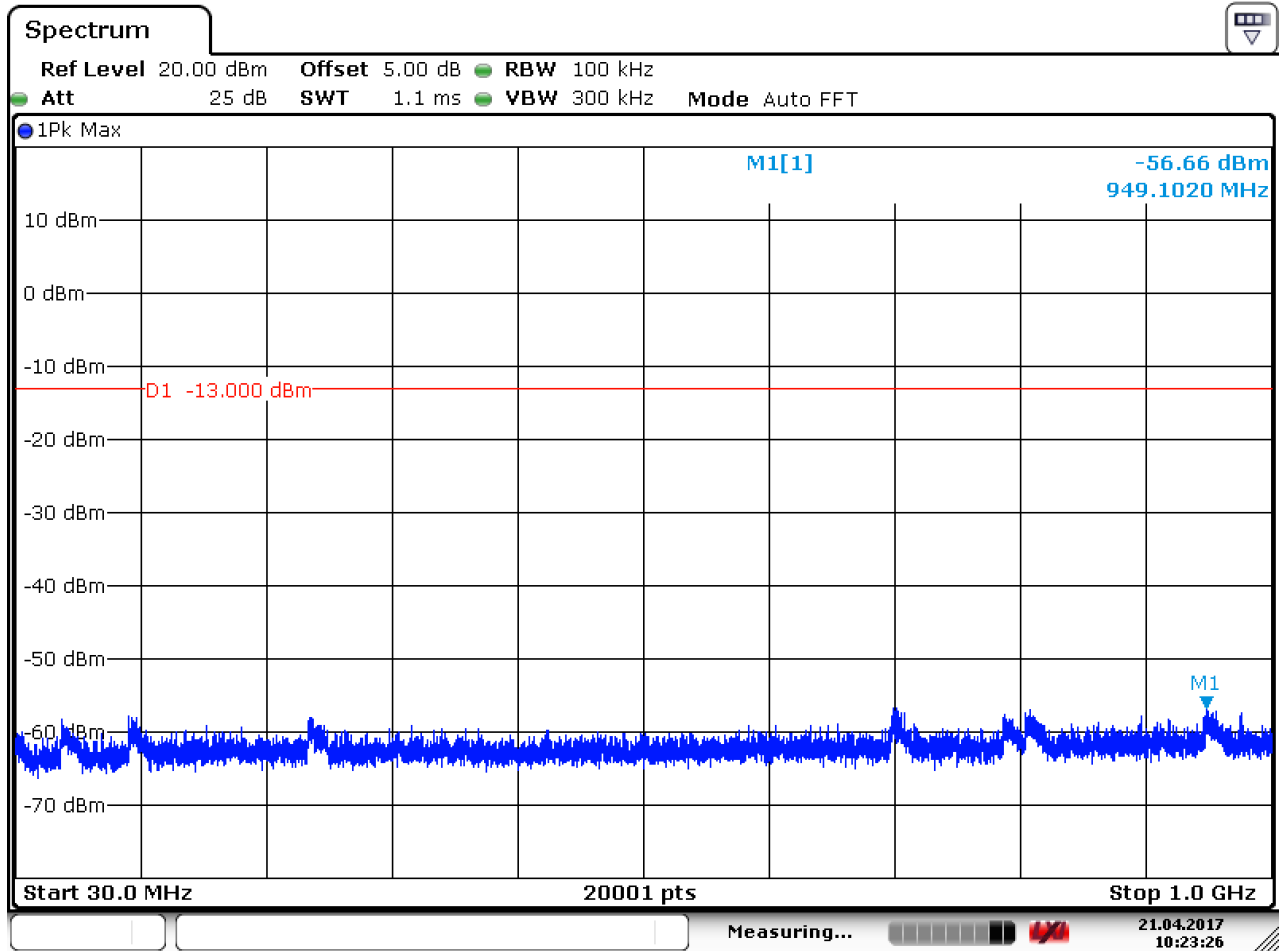




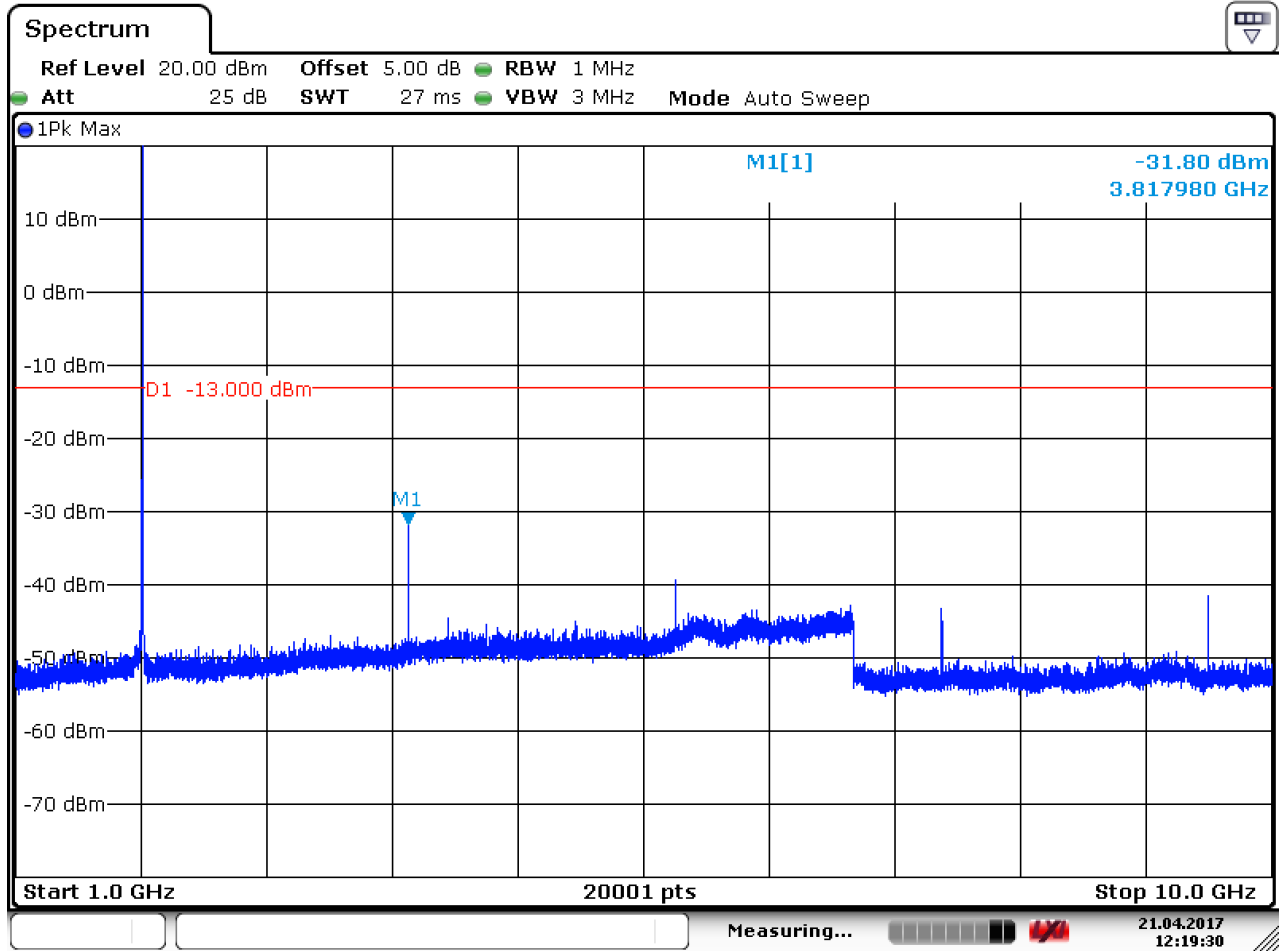
Date: 21.APR.2017 12:21:03



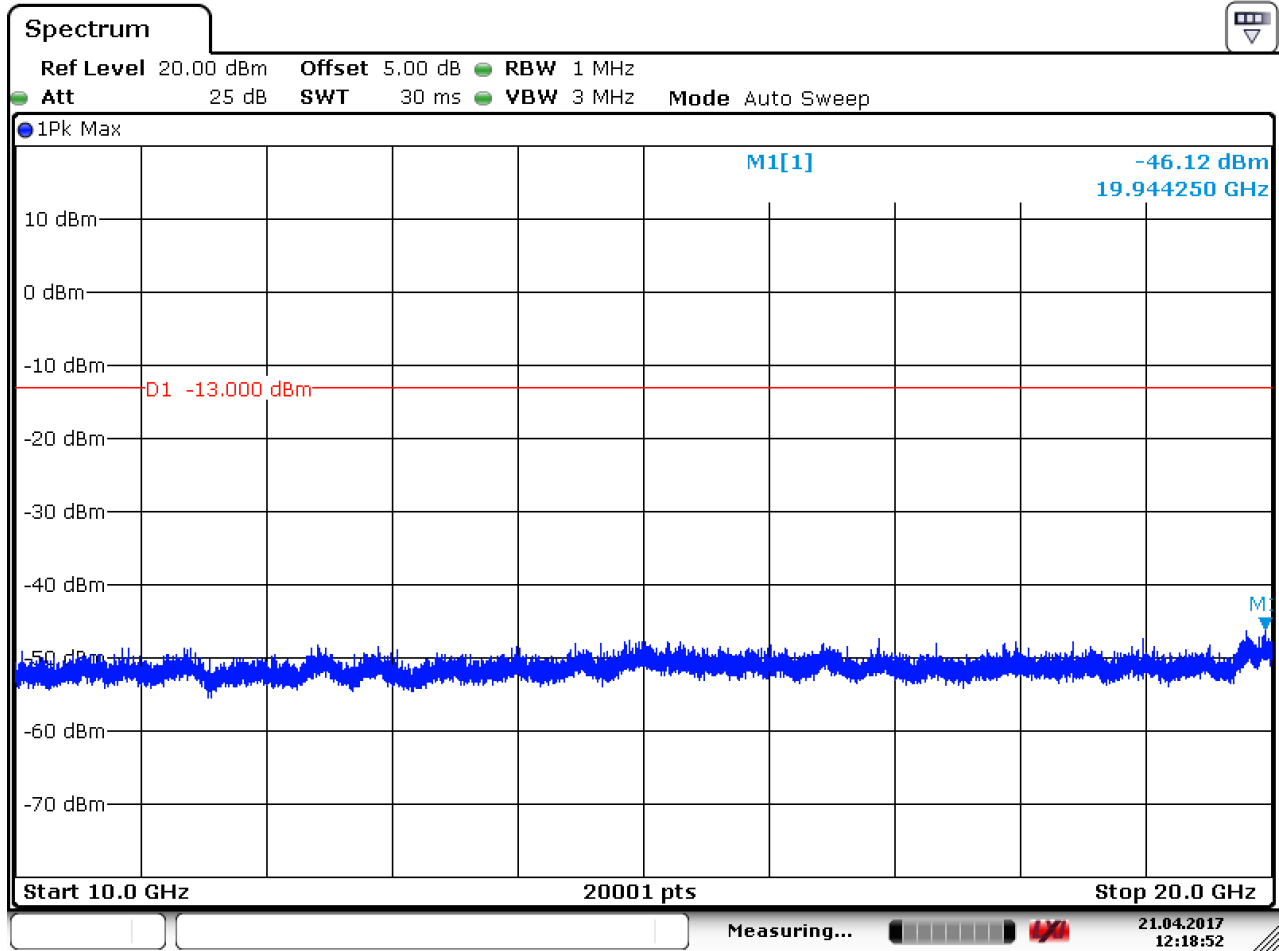
6.1.1.1.3 Test Channel = HCH



Date: 21.APR.2017 10:23:26



Date: 21.APR.2017 12:19:30

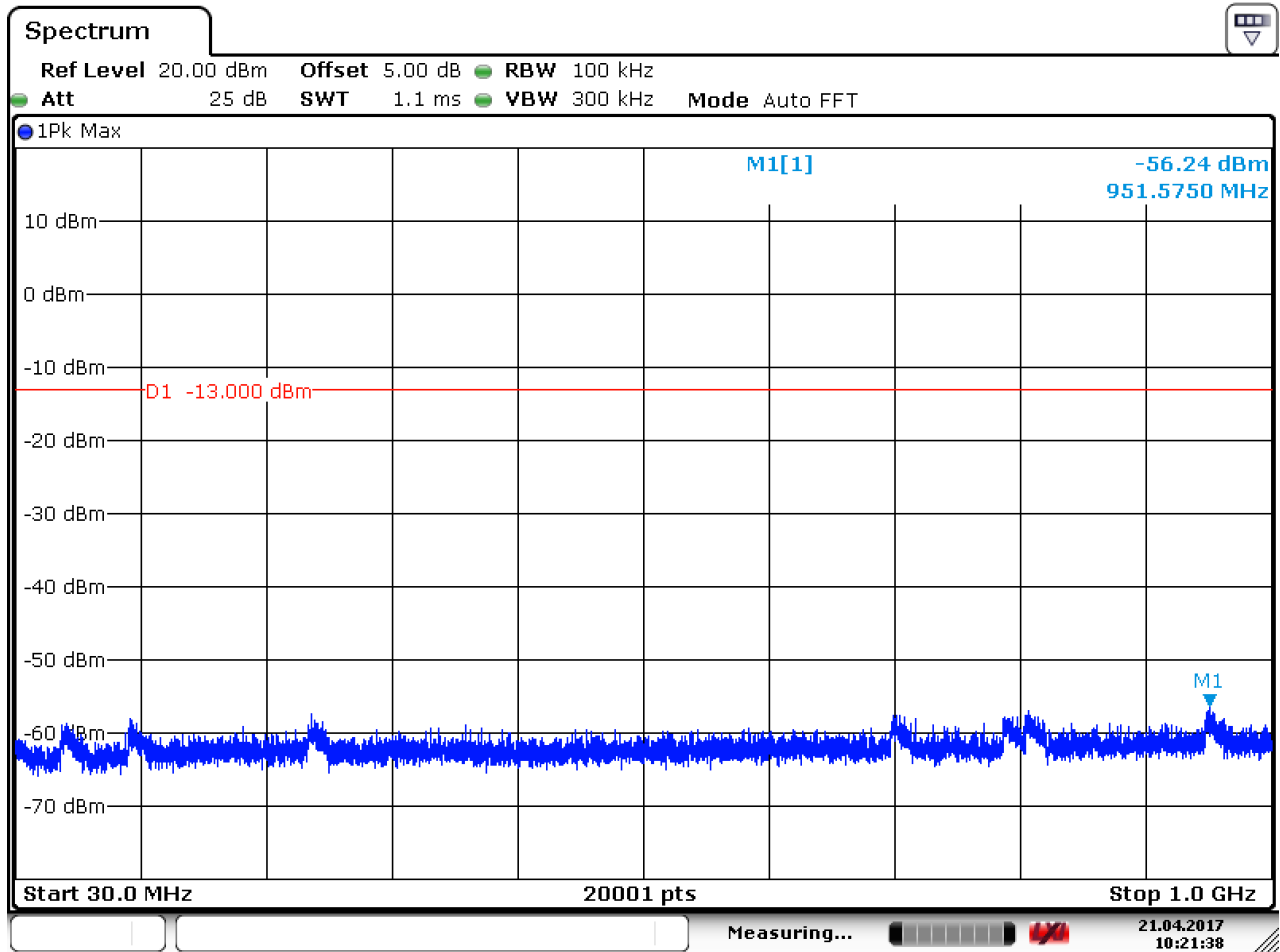


Date: 21.APR.2017 12:18:53

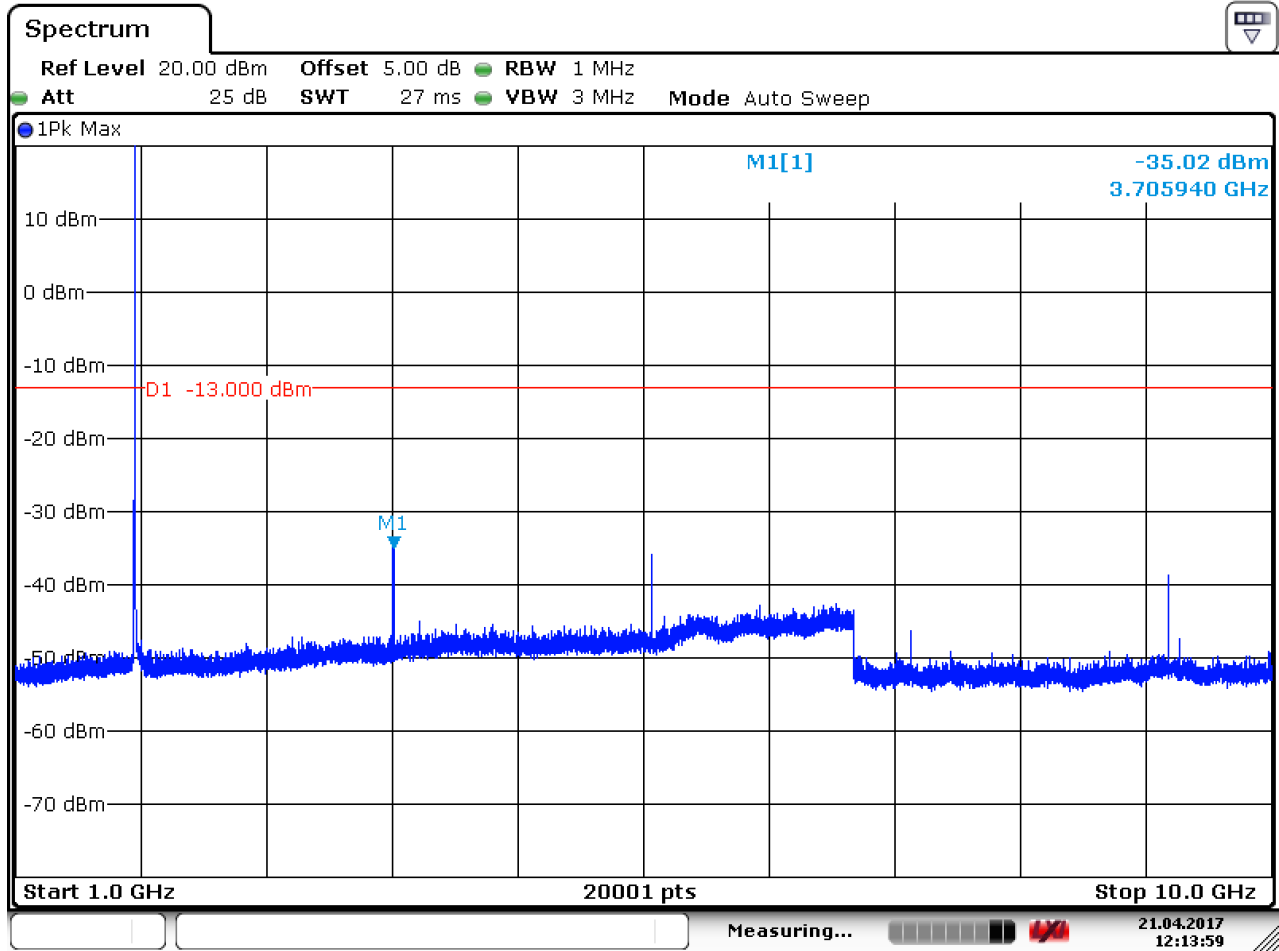


6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

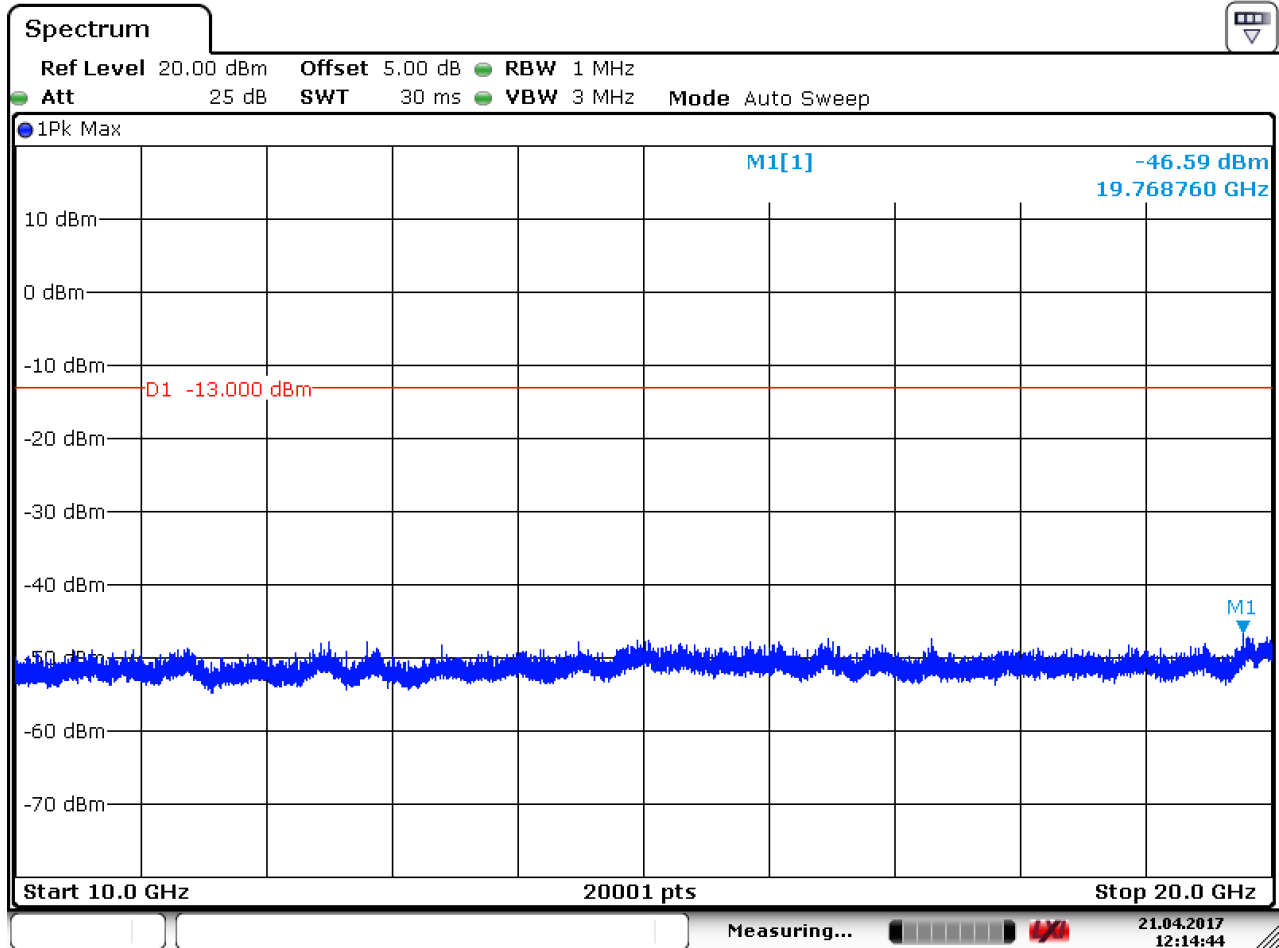
6.1.1.2.1 Test Channel = LCH



Date: 21.APR.2017 10:21:38



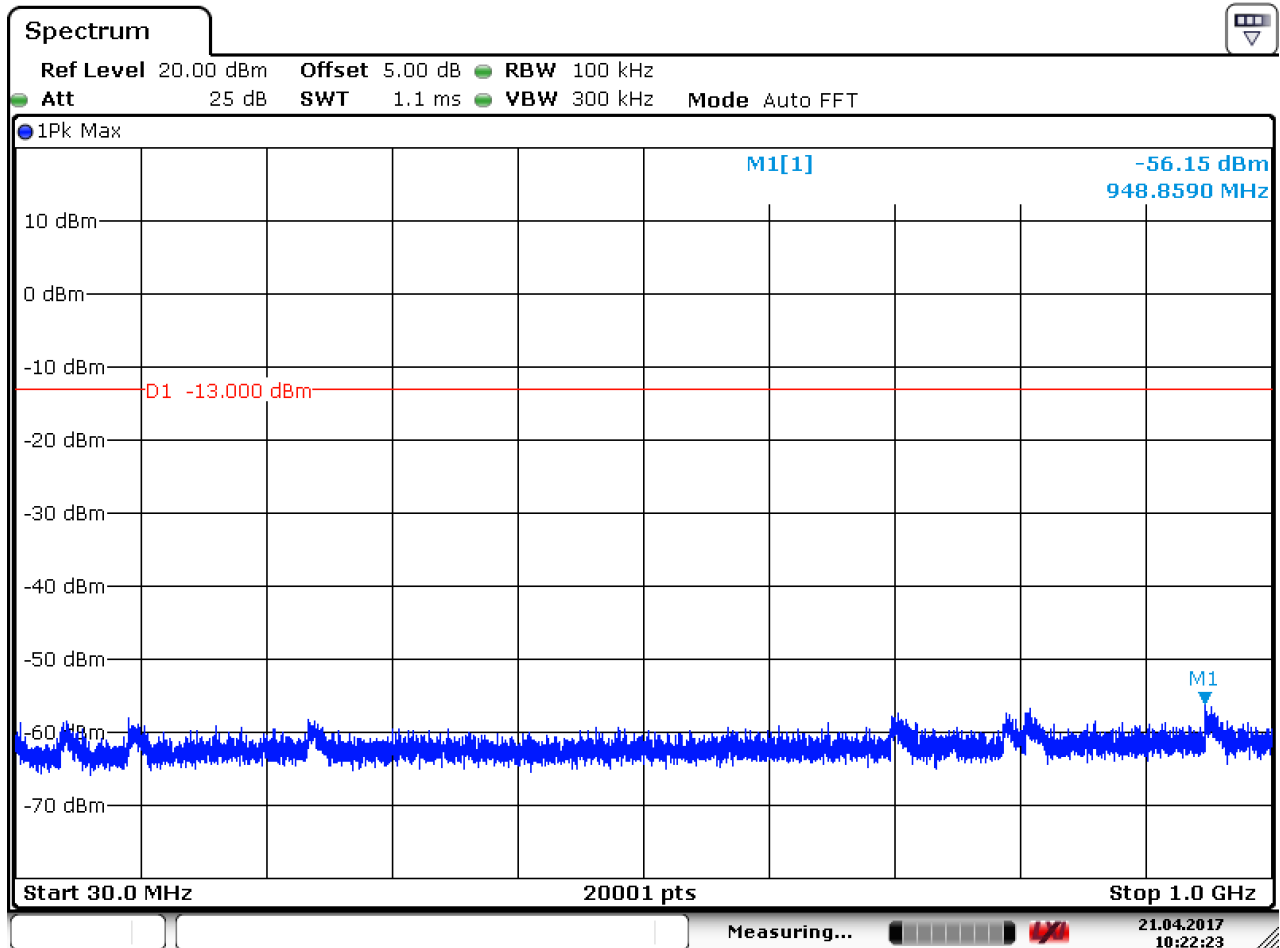
Date: 21.APR.2017 12:13:59



Date: 21.APR.2017 12:14:44

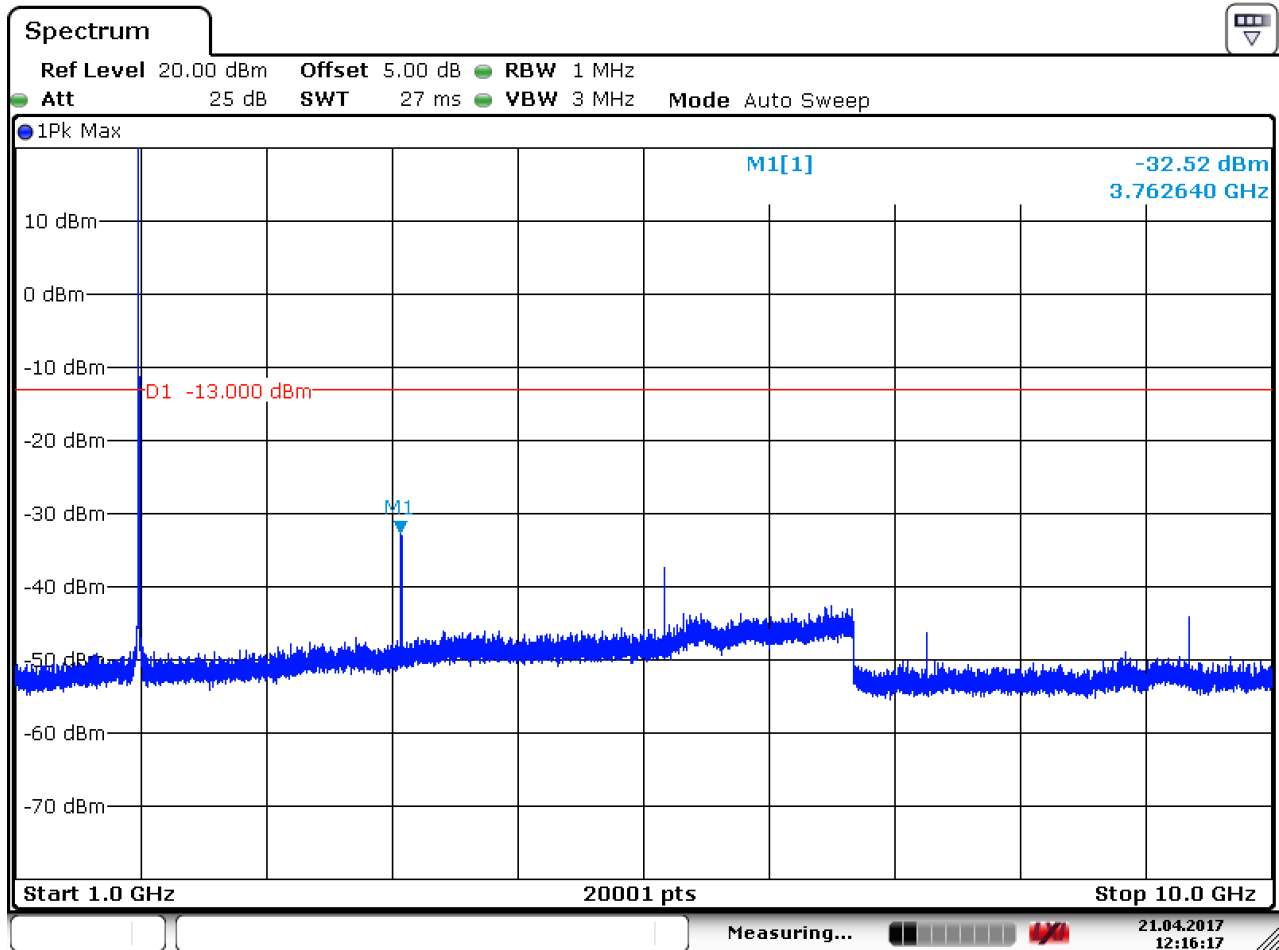


6.1.1.2.2 Test Channel = MCH

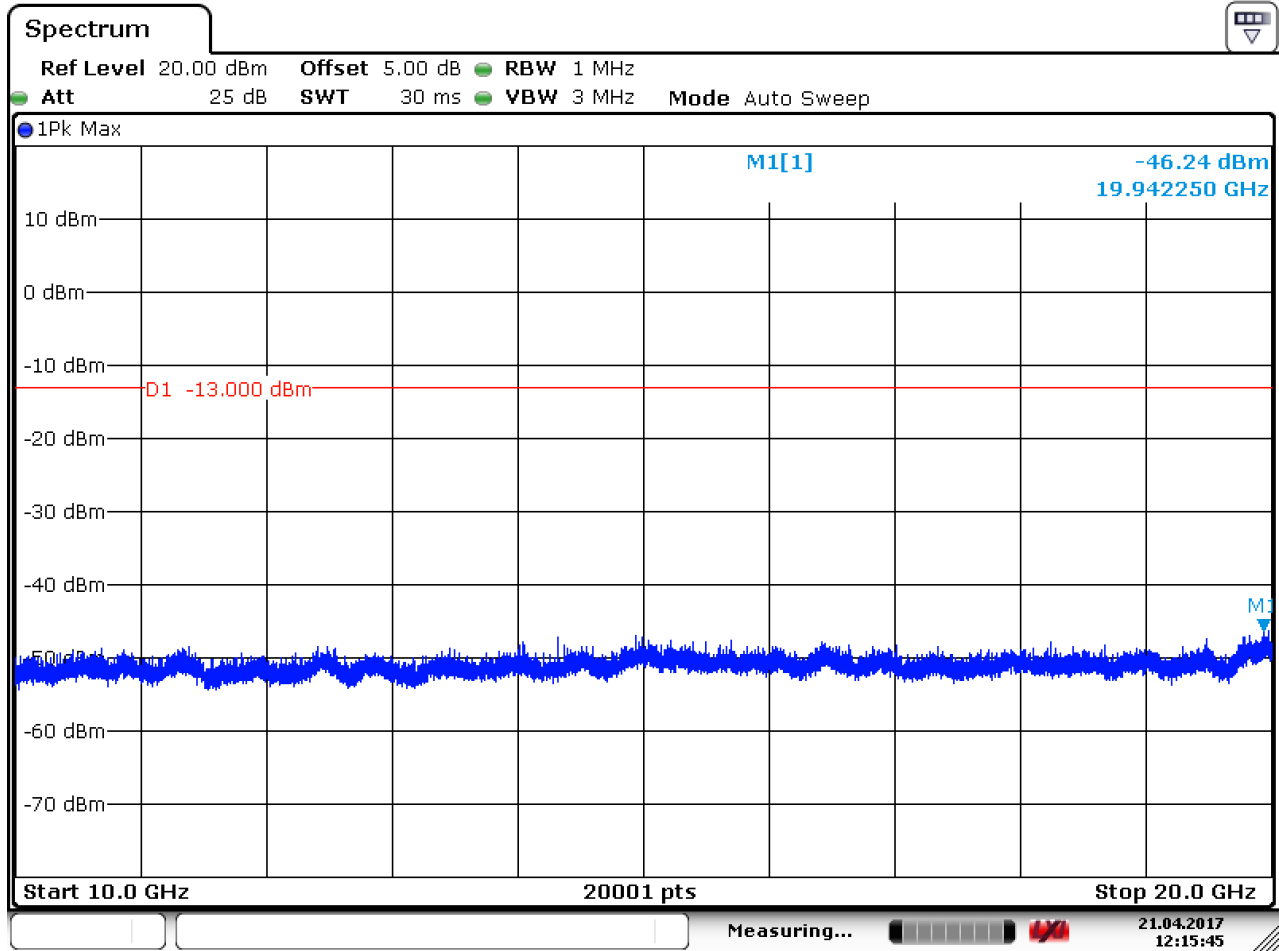


Date: 21.APR.2017 10:22:24





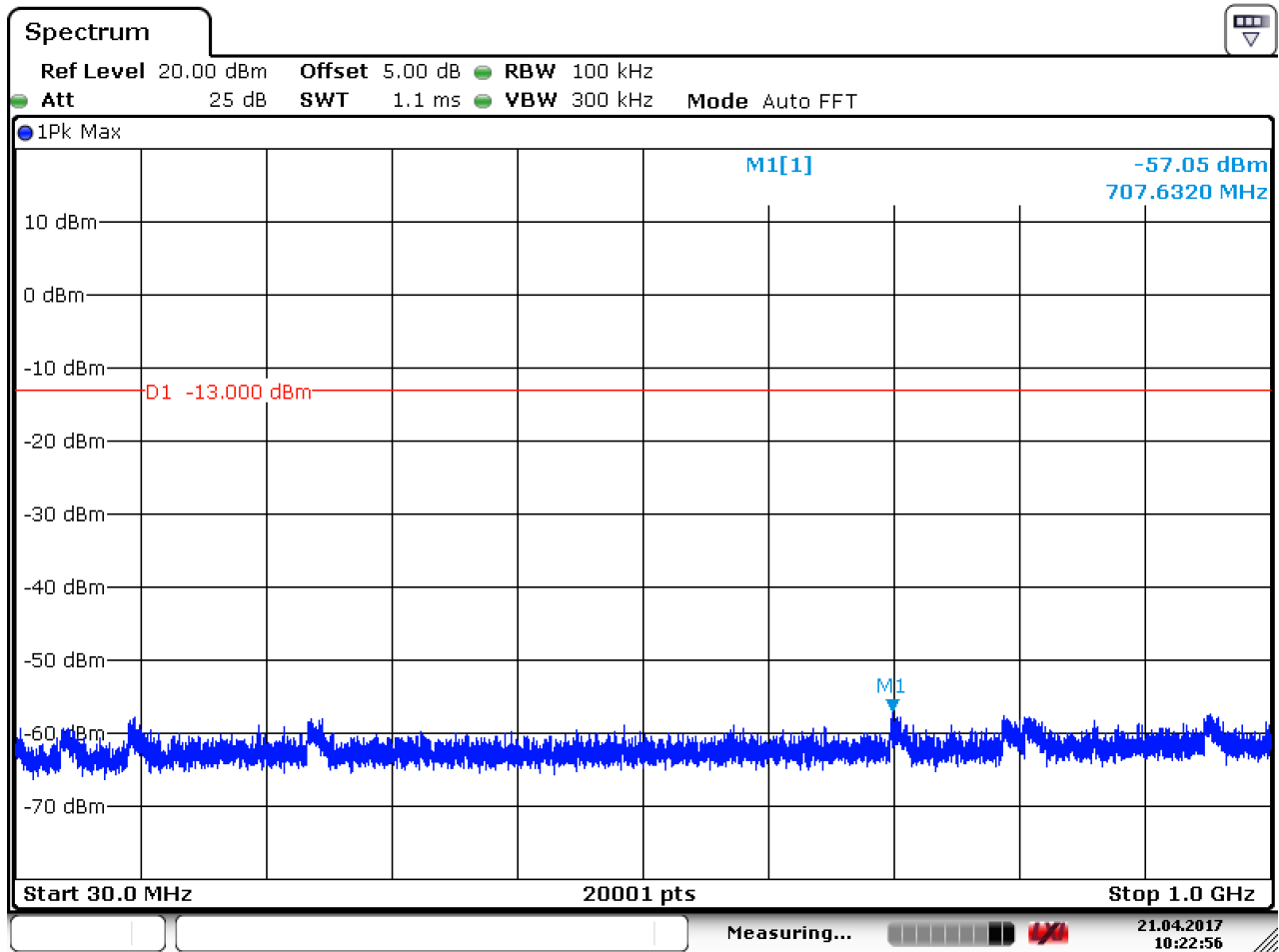
Date: 21.APR.2017 12:16:17



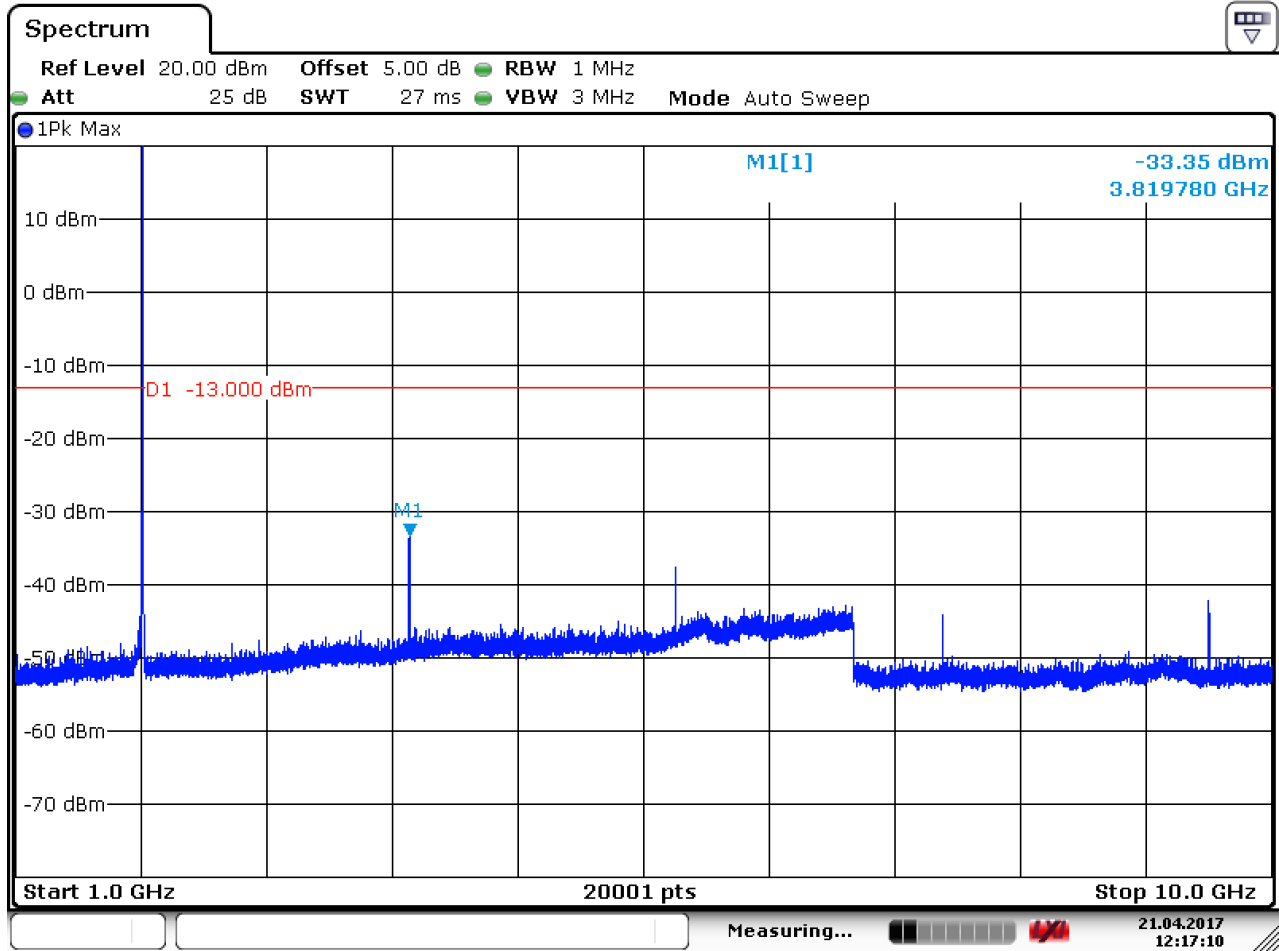
Date: 21.APR.2017 12:15:46



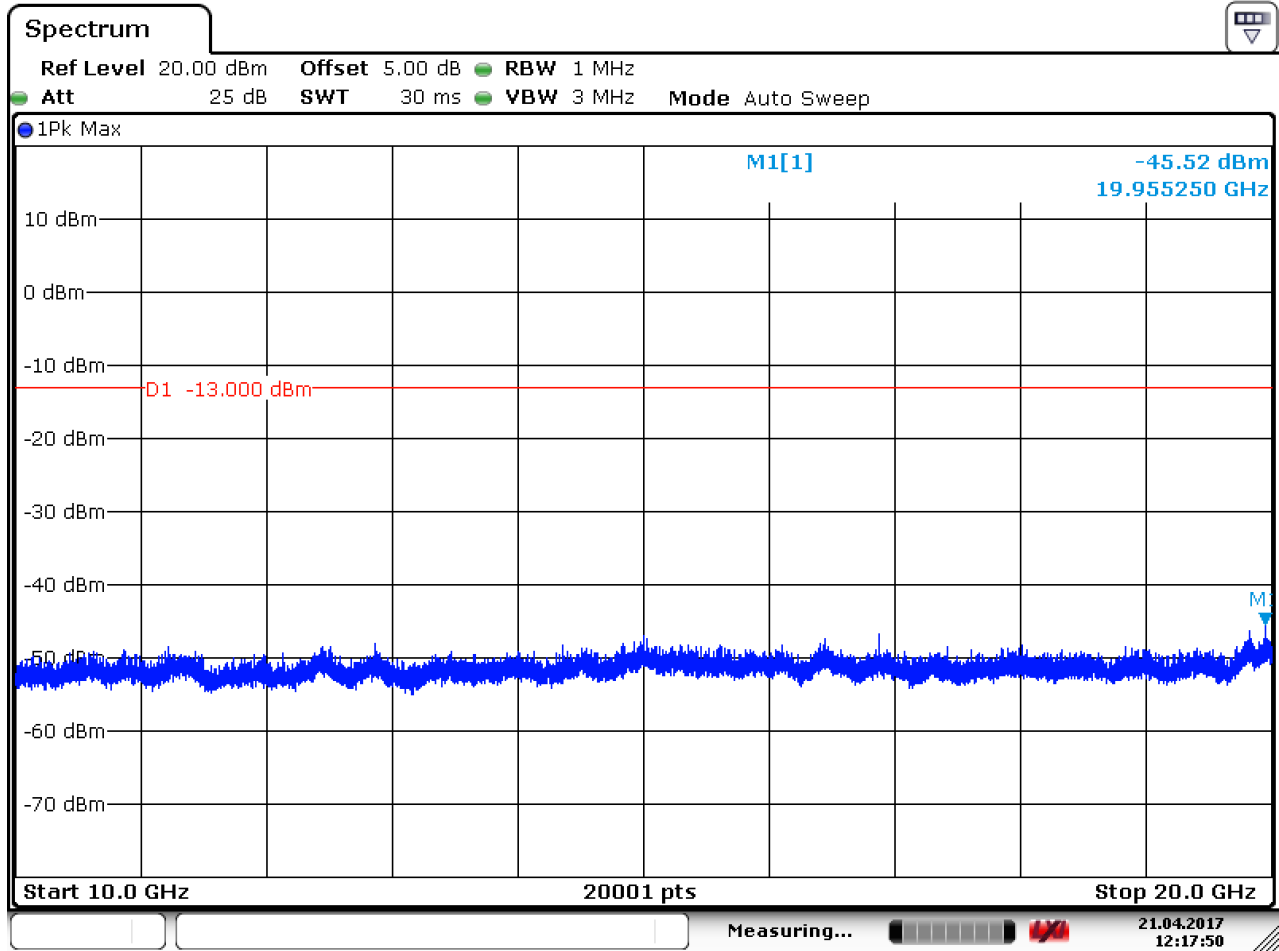
6.1.1.2.3 Test Channel = HCH



Date: 21.APR.2017 10:22:57



Date: 21.APR.2017 12:17:10

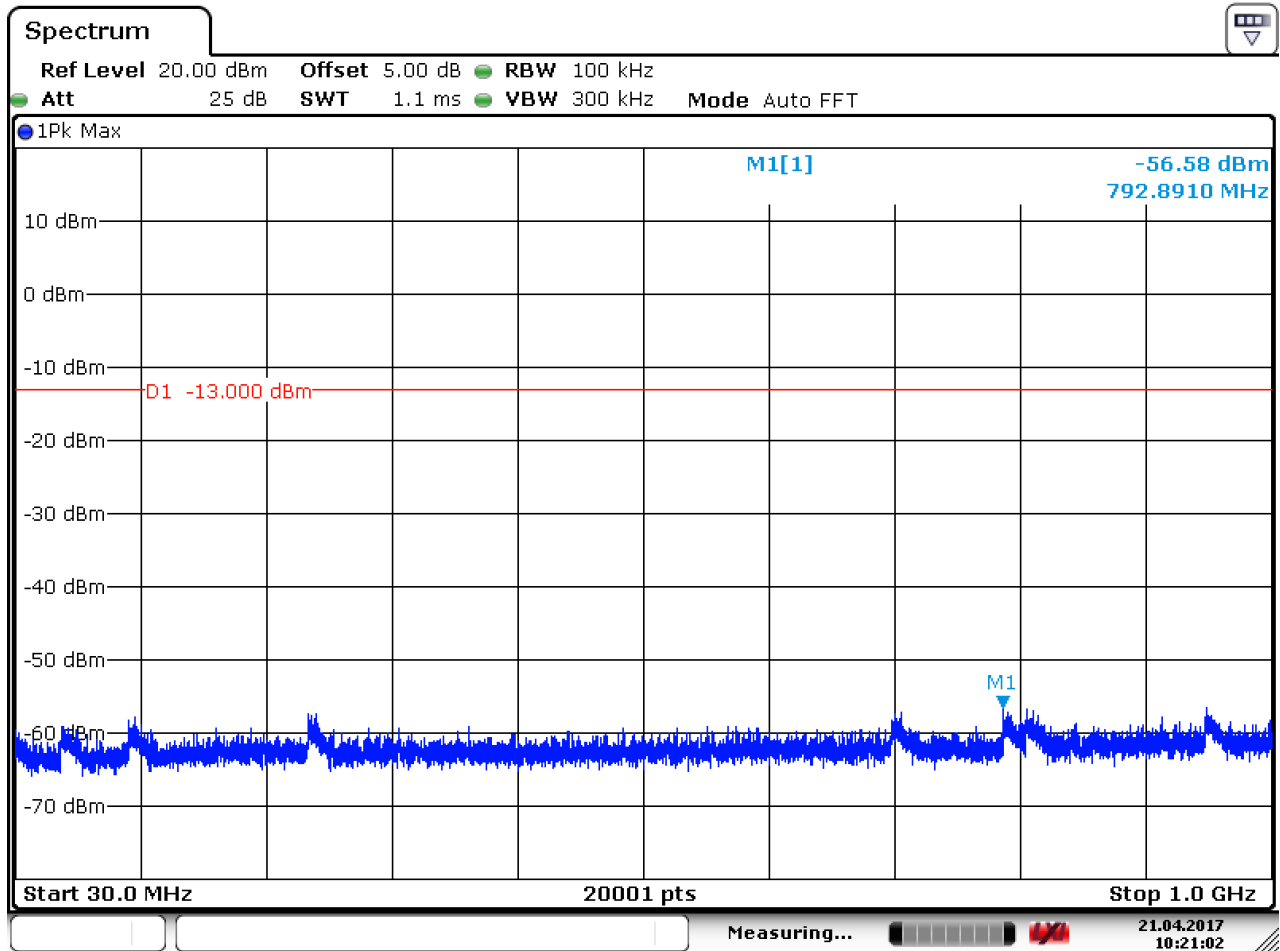


Date: 21.APR.2017 12:17:50

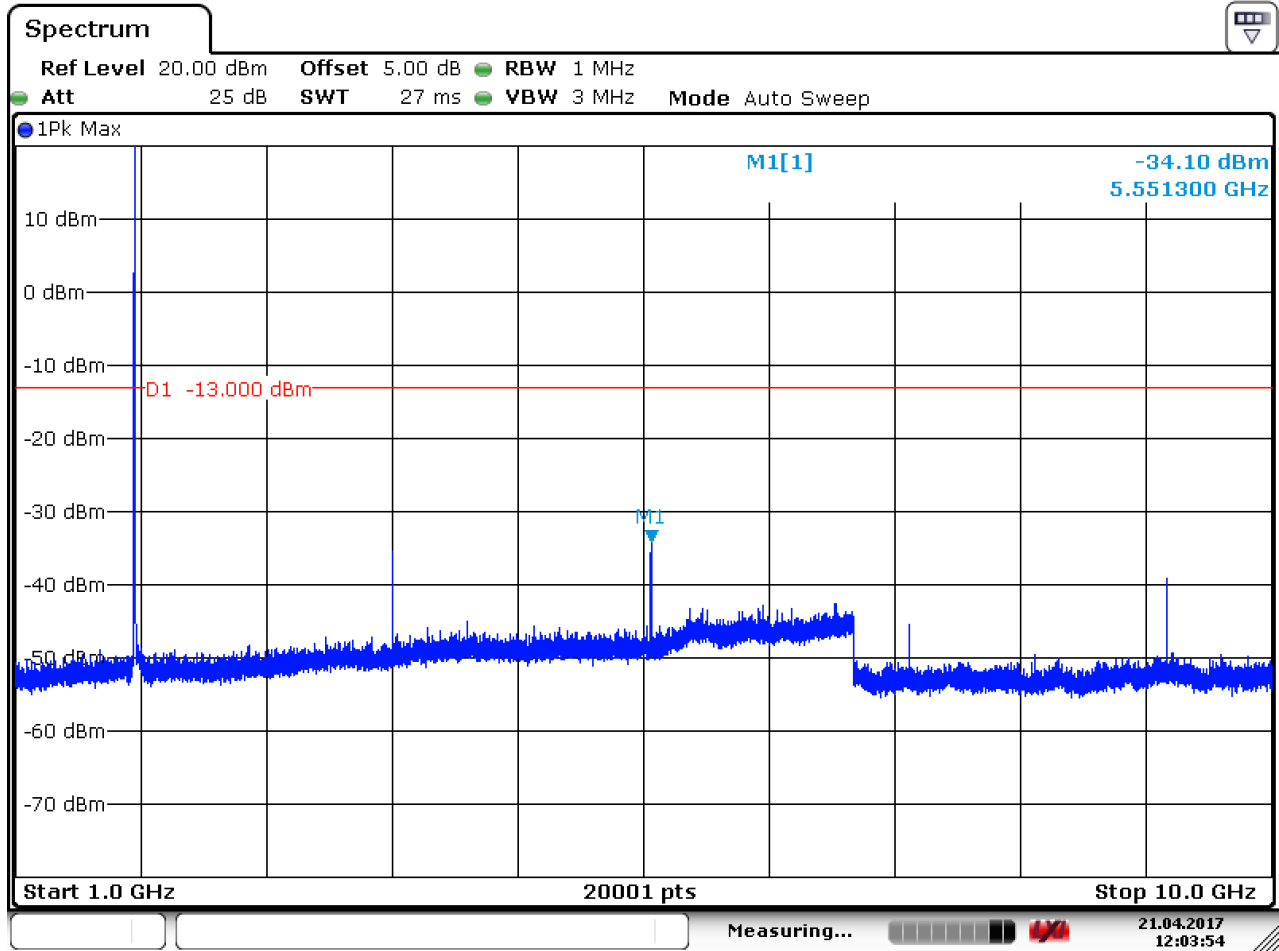


6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

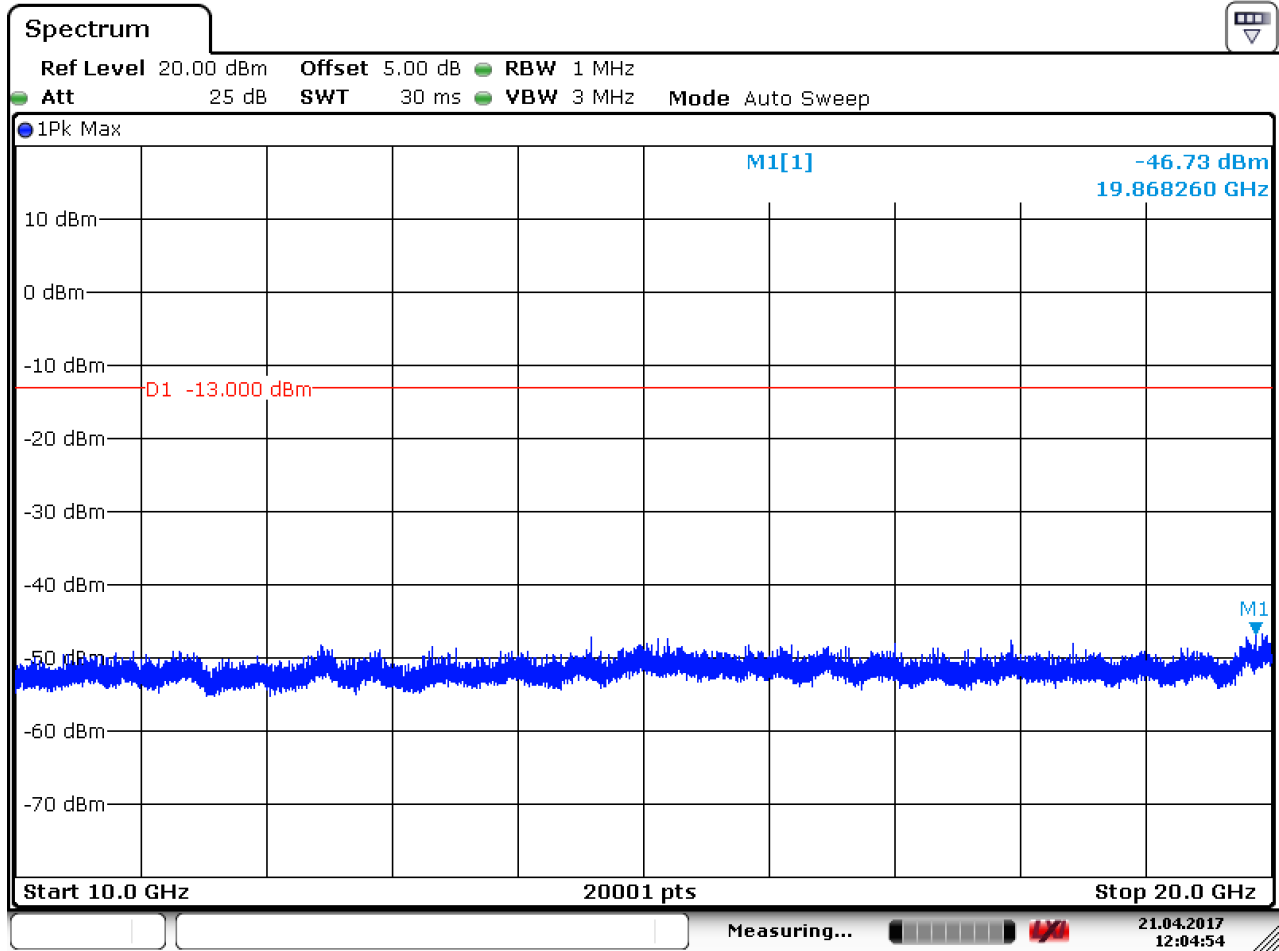
6.1.1.3.1 Test Channel = LCH



Date: 21.APR.2017 10:21:03



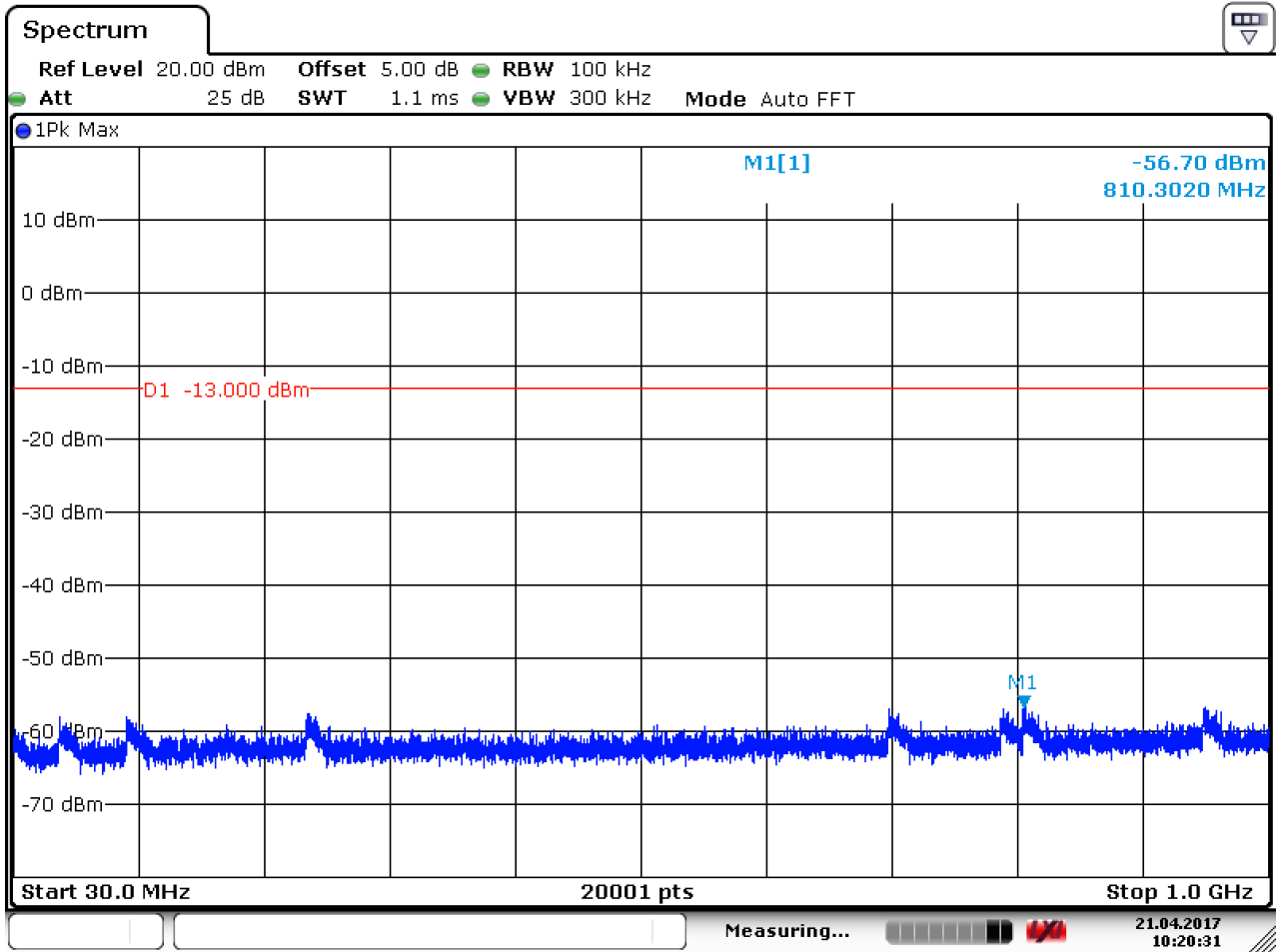
Date: 21.APR.2017 12:03:54



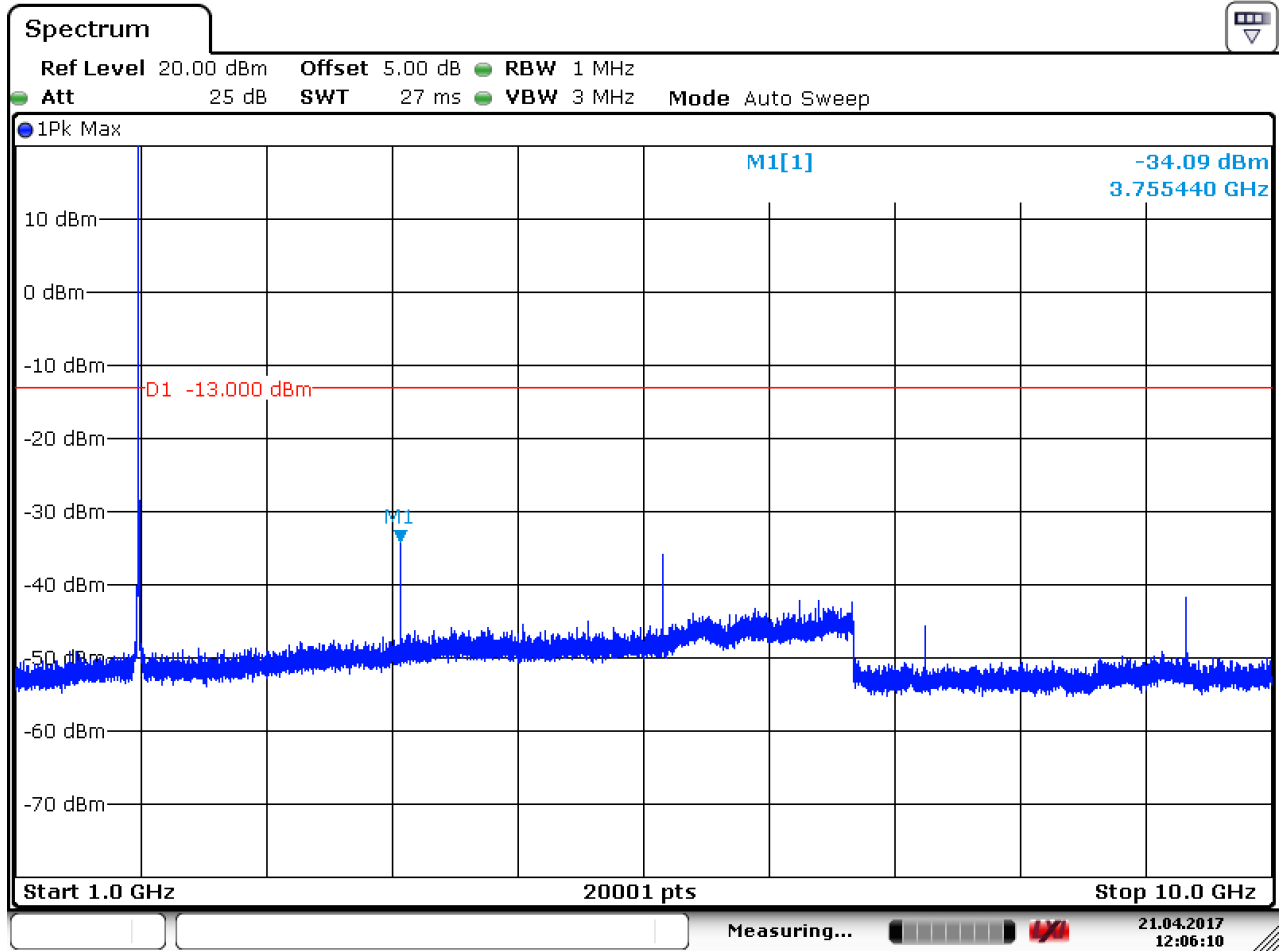
Date: 21.APR.2017 12:04:54



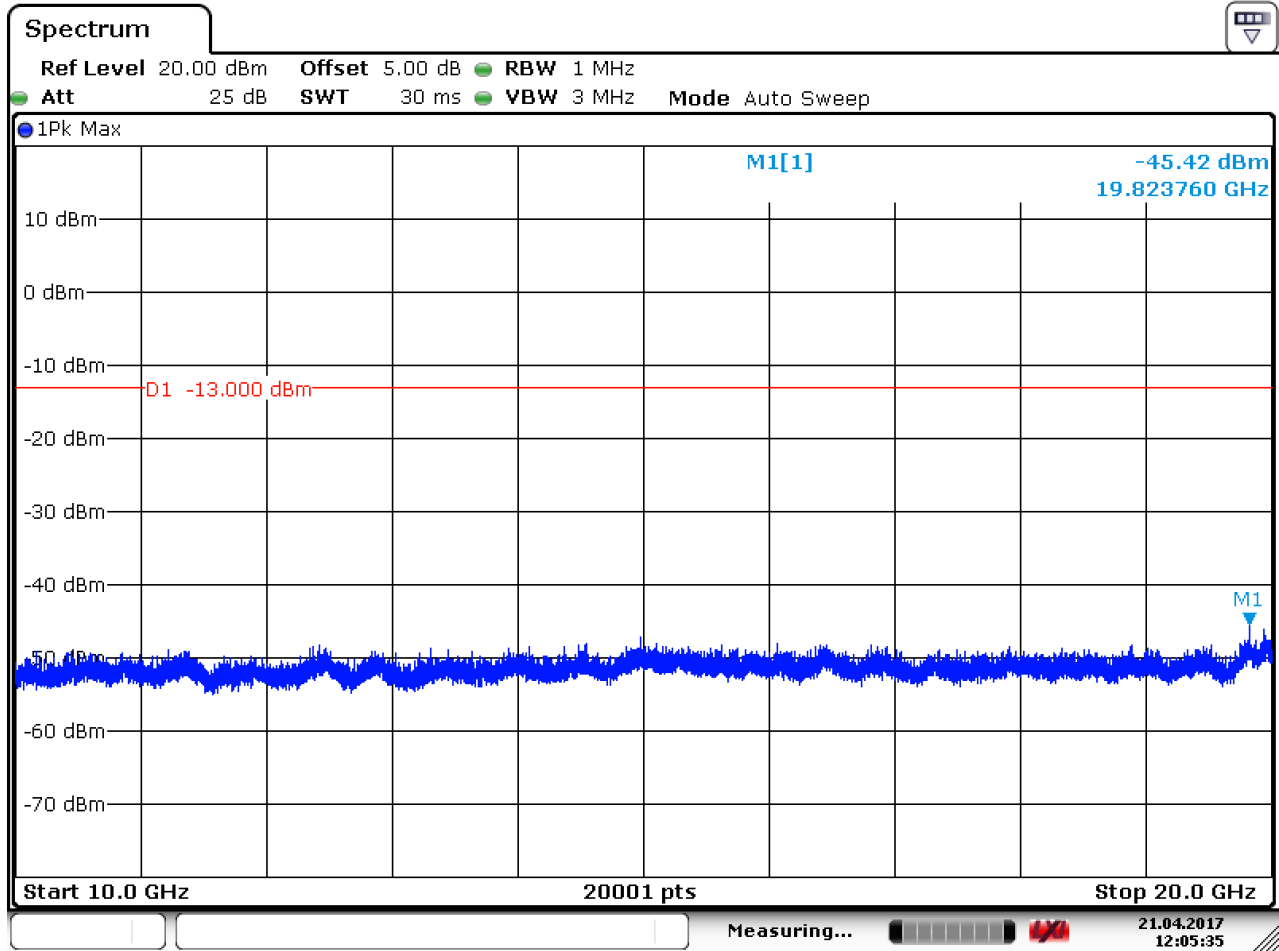
6.1.1.3.2 Test Channel = MCH



Date: 21.APR.2017 10:20:31



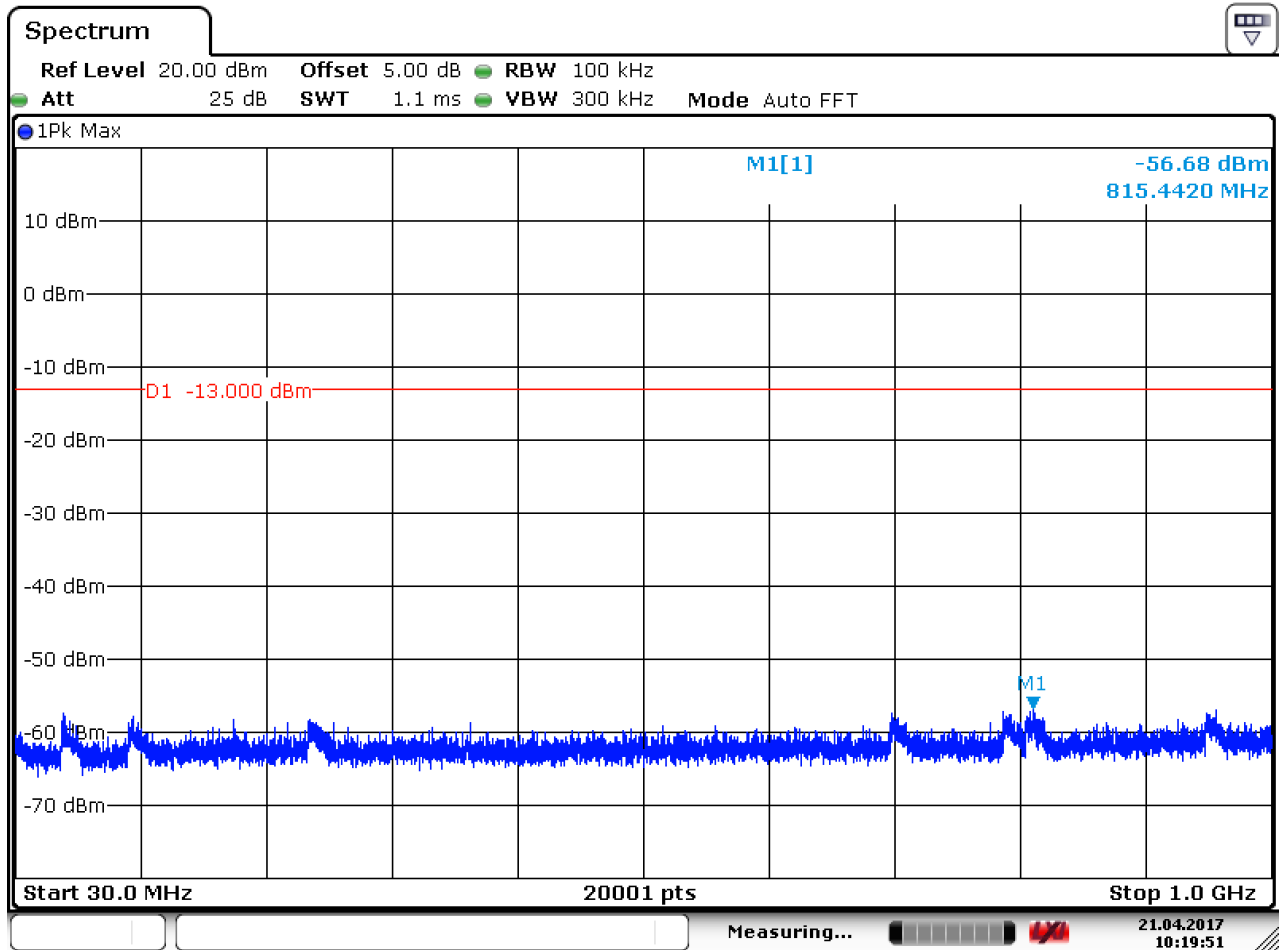
Date: 21.APR.2017 12:06:11



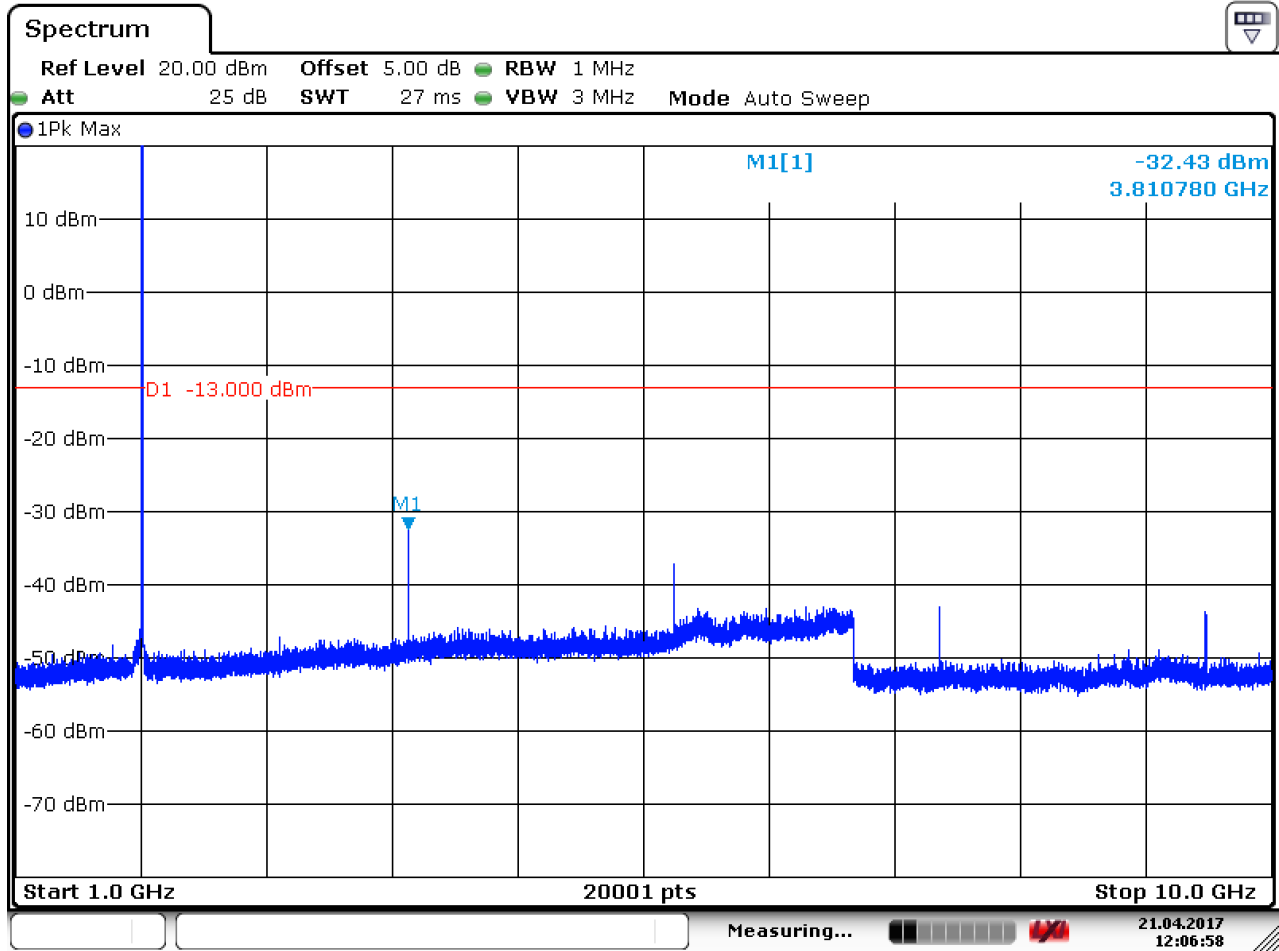
Date: 21.APR.2017 12:05:36



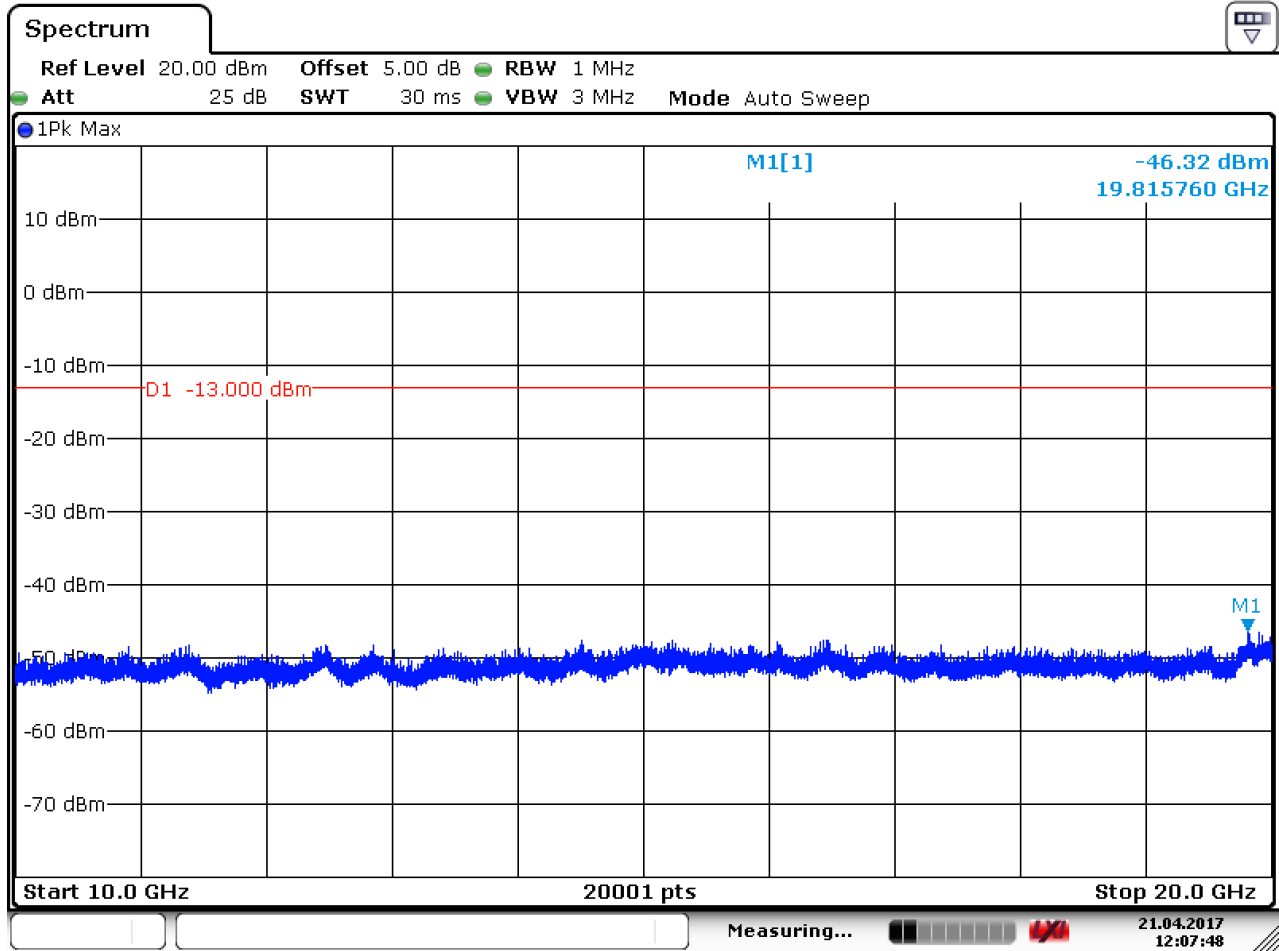
6.1.1.3.3 Test Channel = HCH



Date: 21.APR.2017 10:19:51



Date: 21.APR.2017 12:06:58

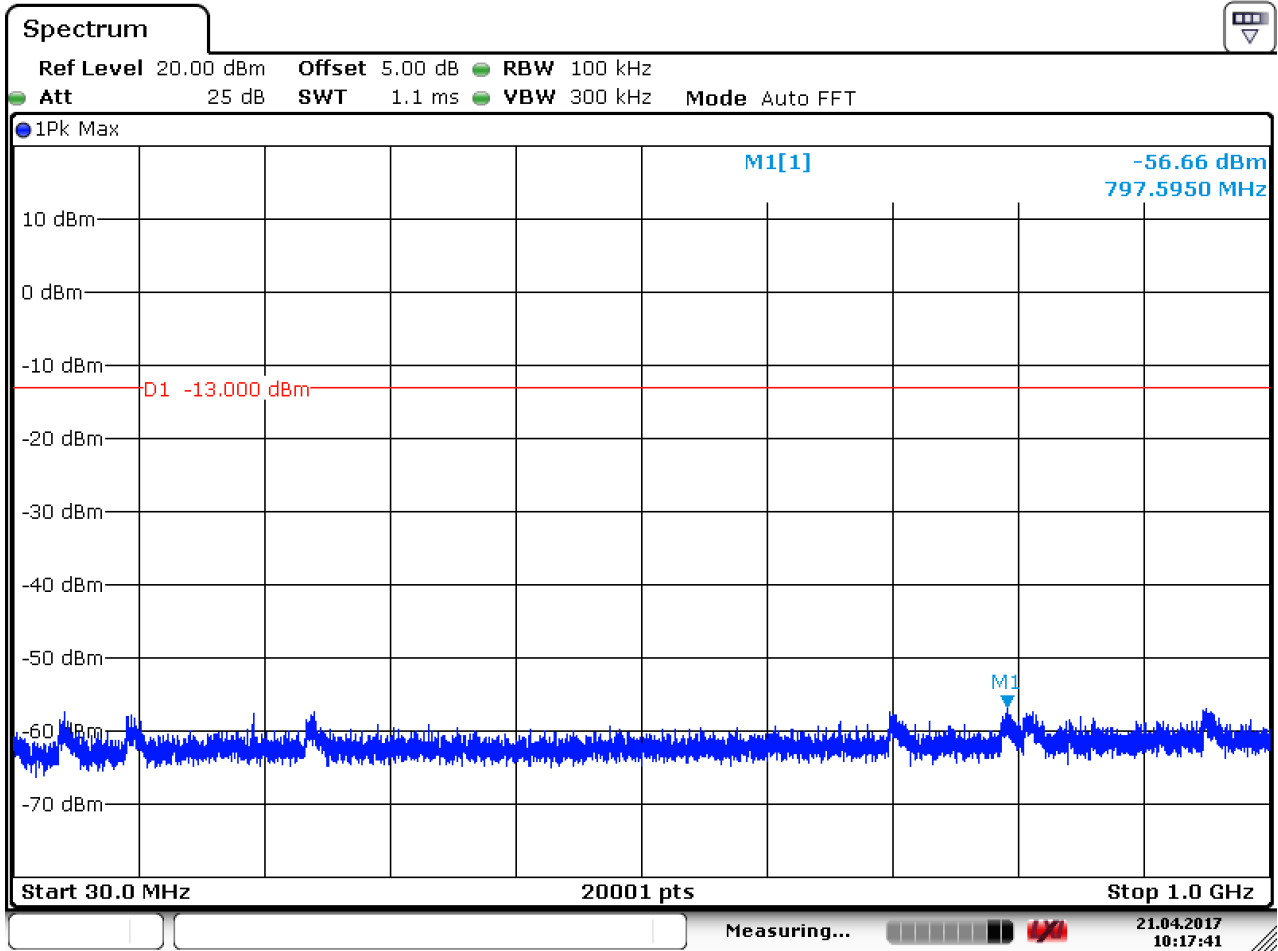


Date: 21.APR.2017 12:07:48

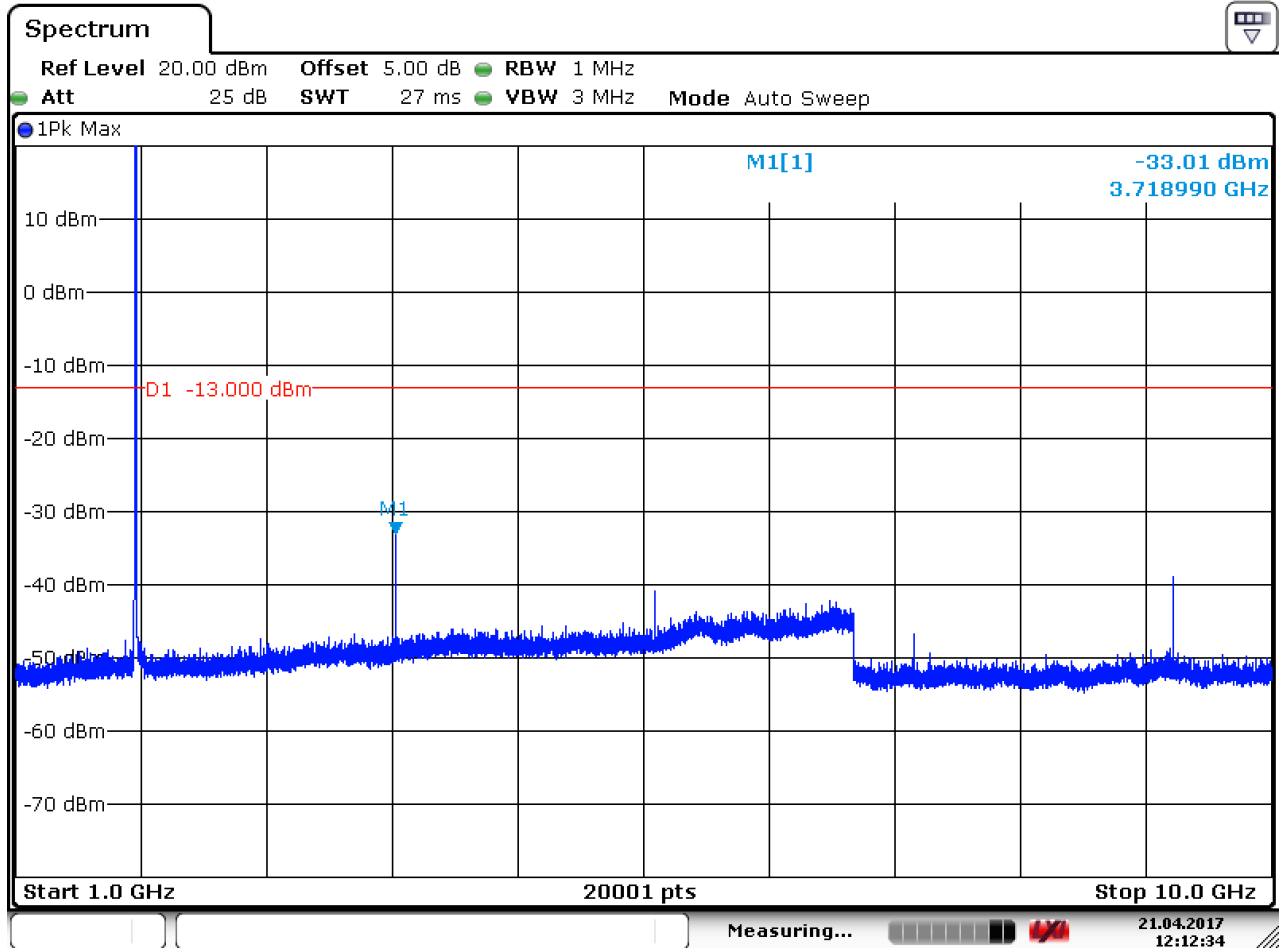


6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH

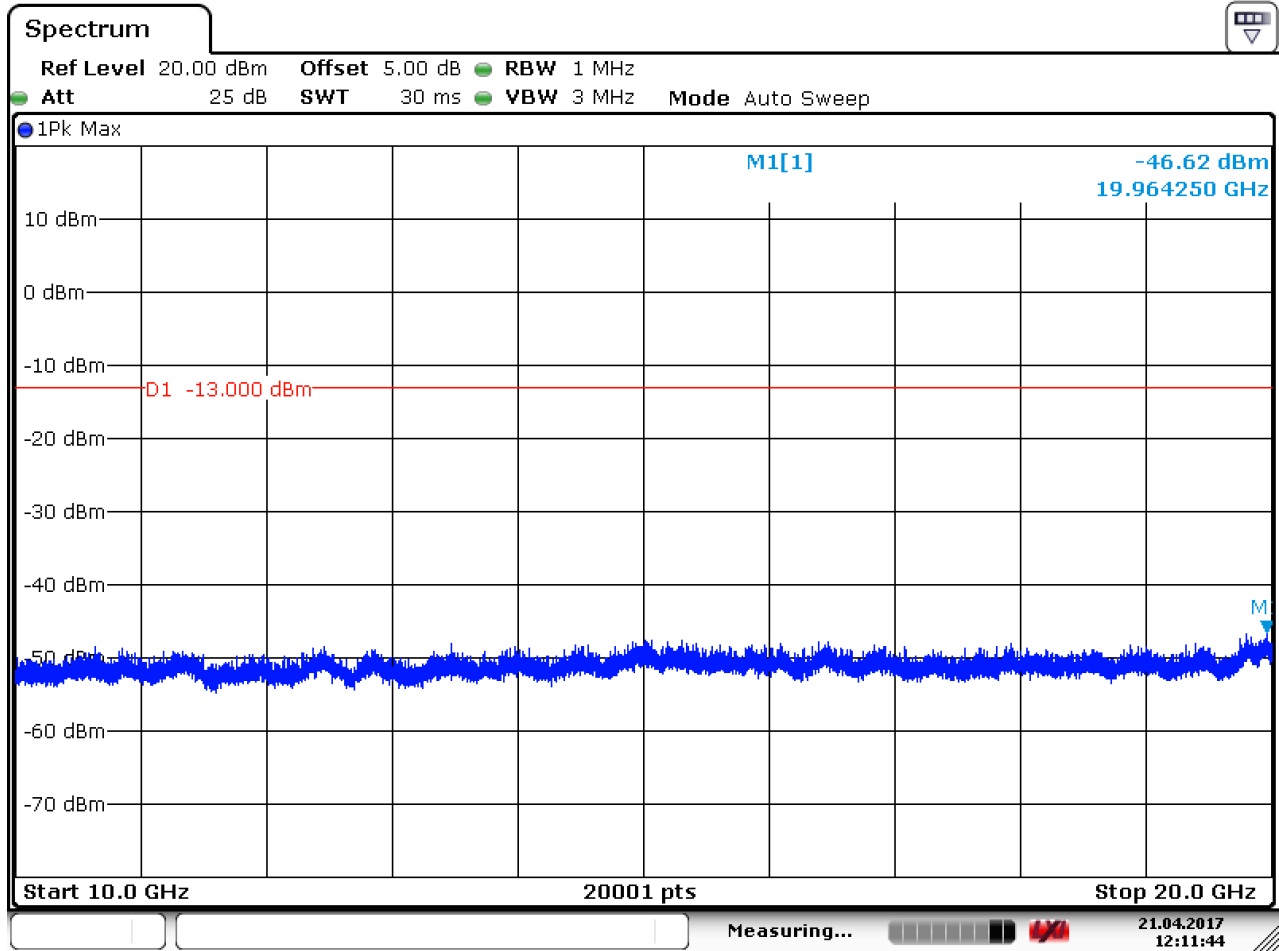


Date: 21.APR.2017 10:17:41



Date: 21.APR.2017 12:12:34

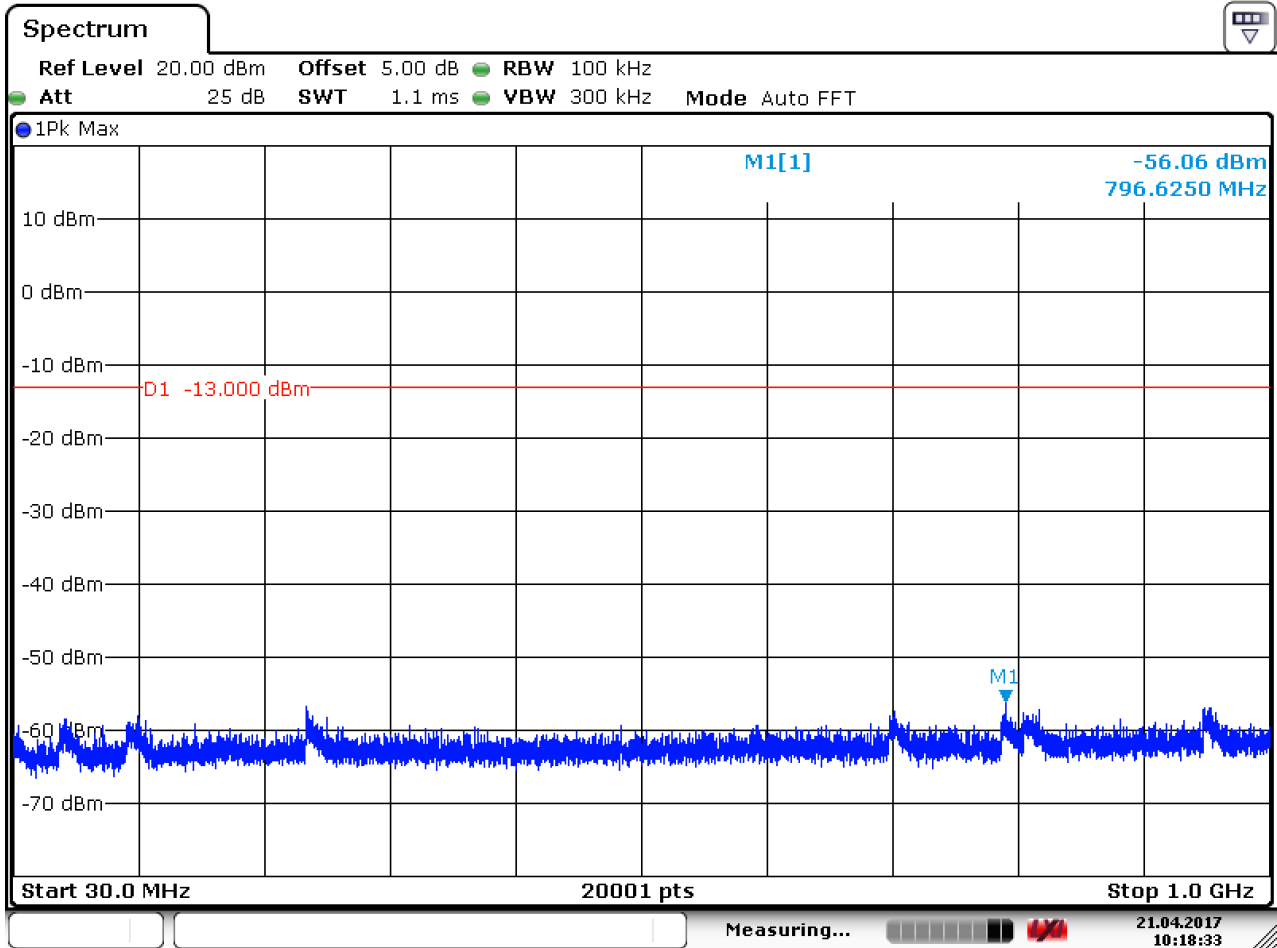




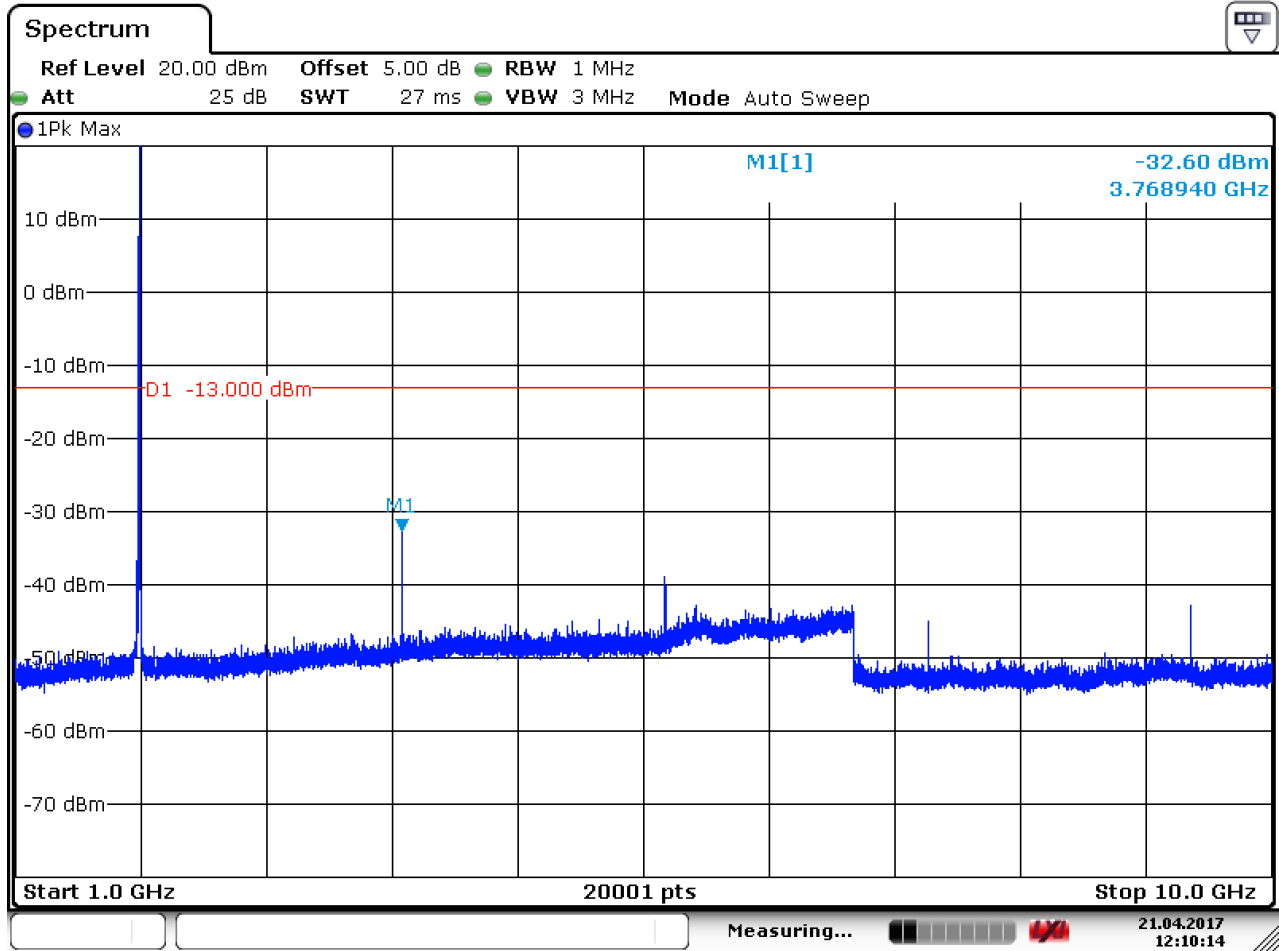
Date: 21.APR.2017 12:11:45



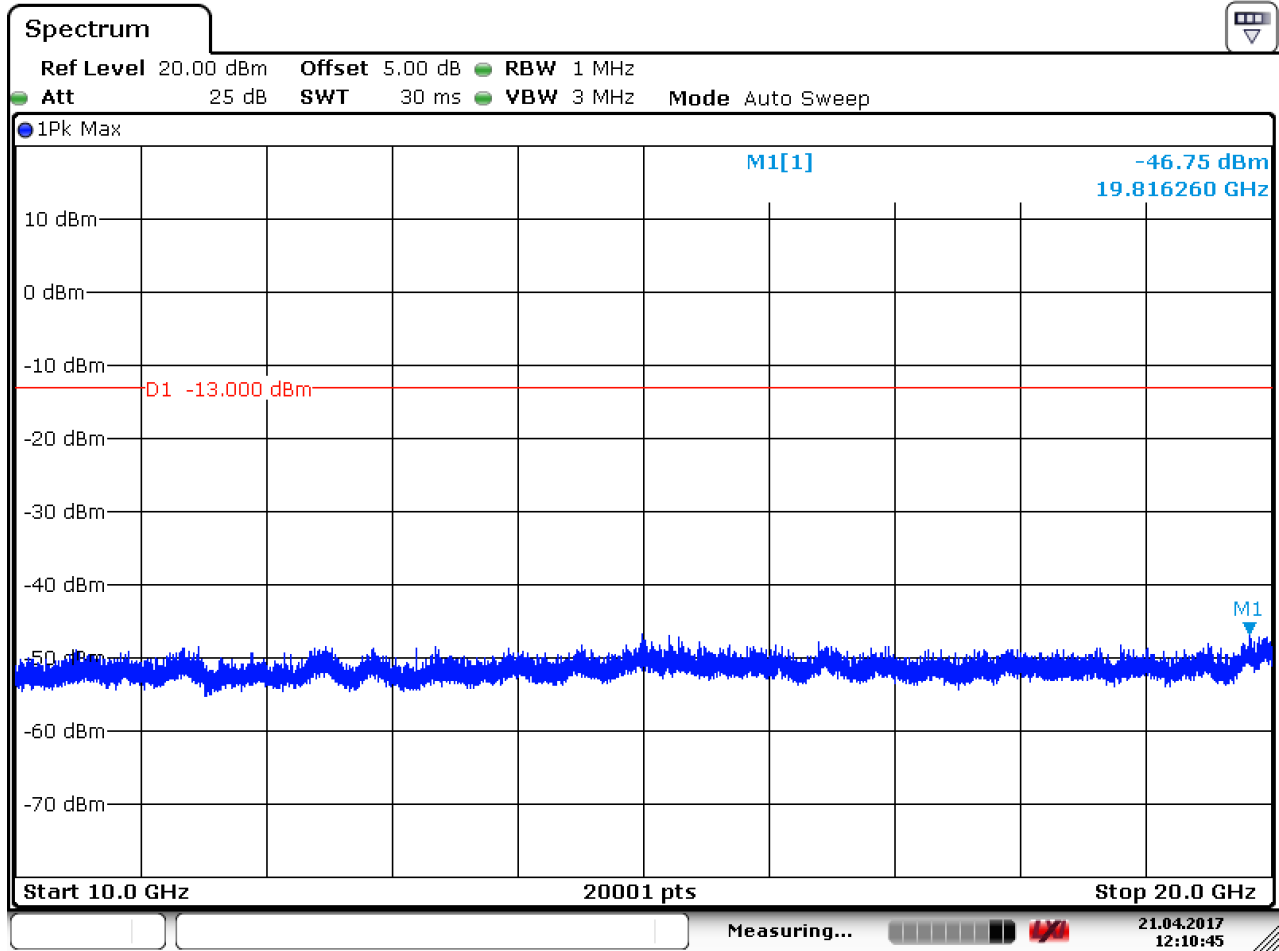
6.1.1.4.2 Test Channel = MCH



Date: 21.APR.2017 10:18:34



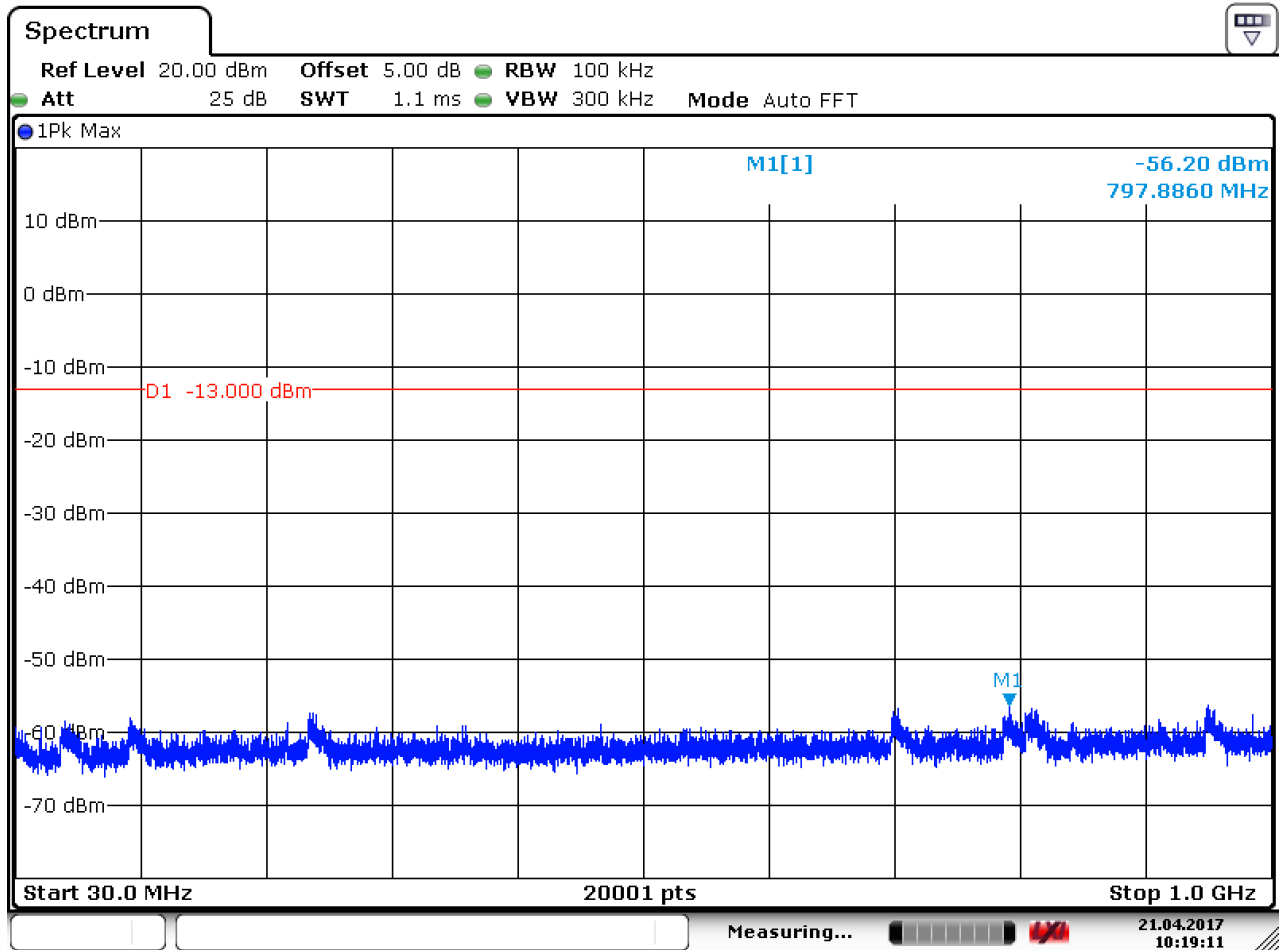
Date: 21.APR.2017 12:10:14



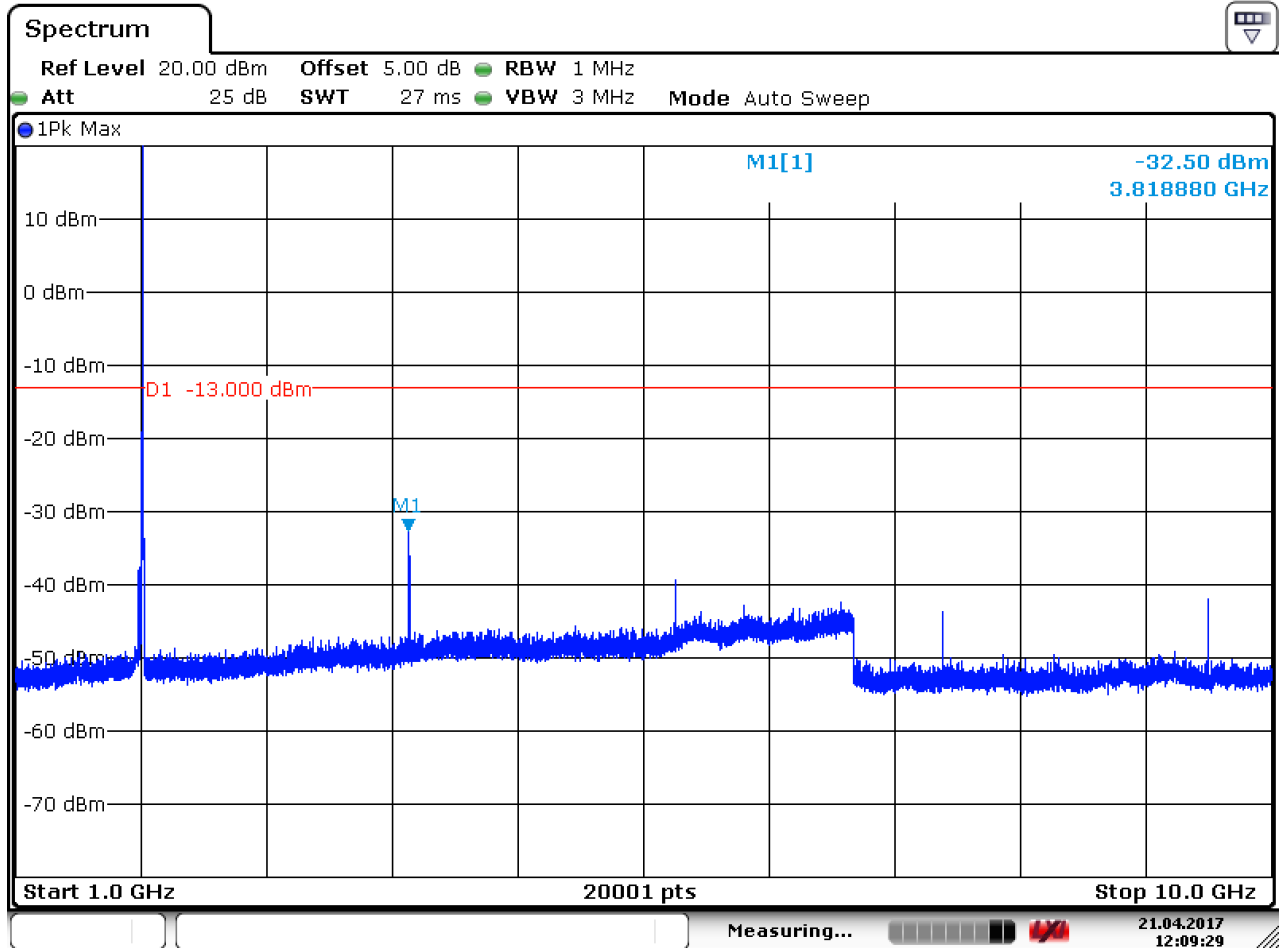
Date: 21.APR.2017 12:10:46



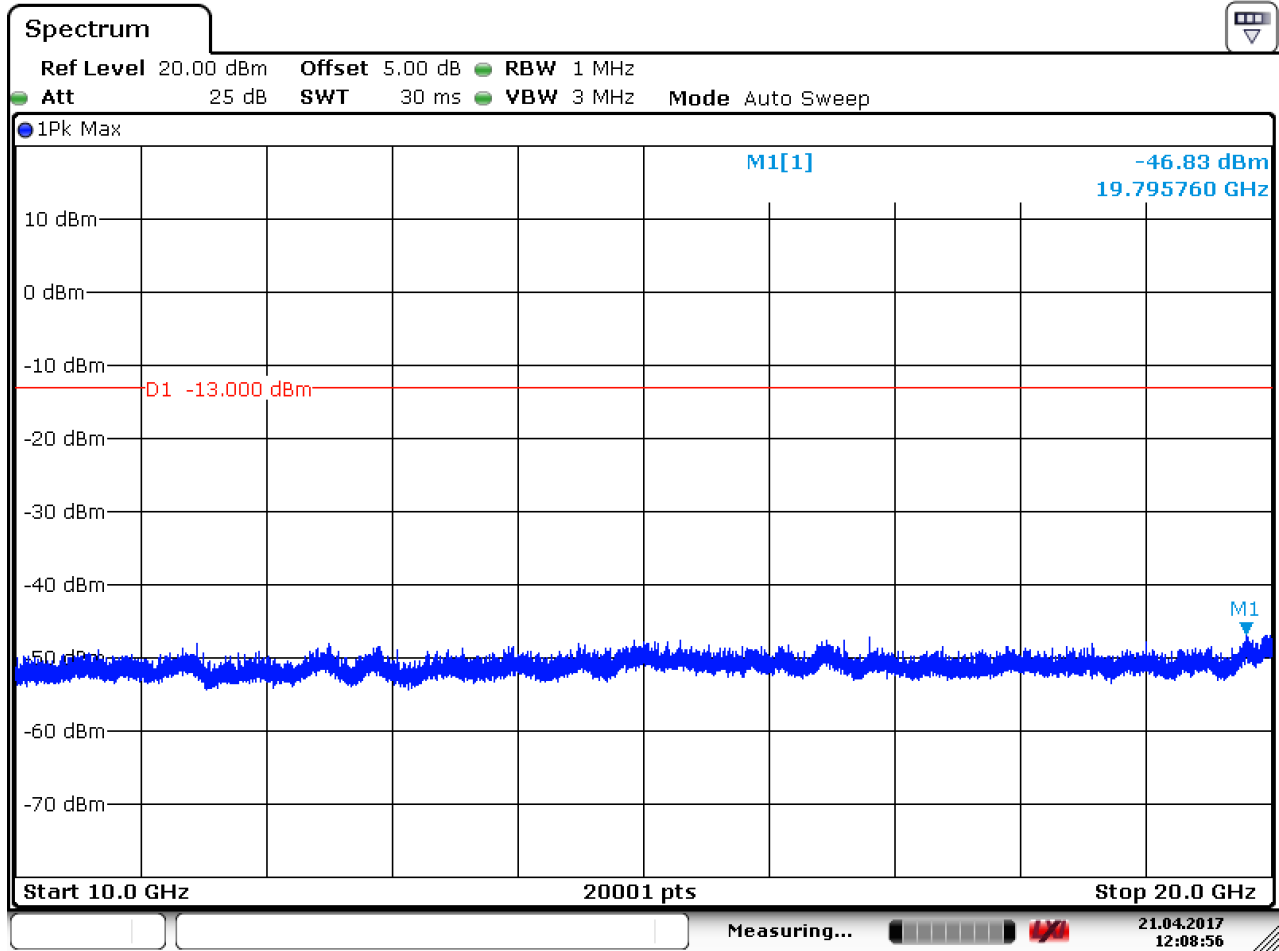
6.1.1.4.3 Test Channel = HCH



Date: 21.APR.2017 10:19:11



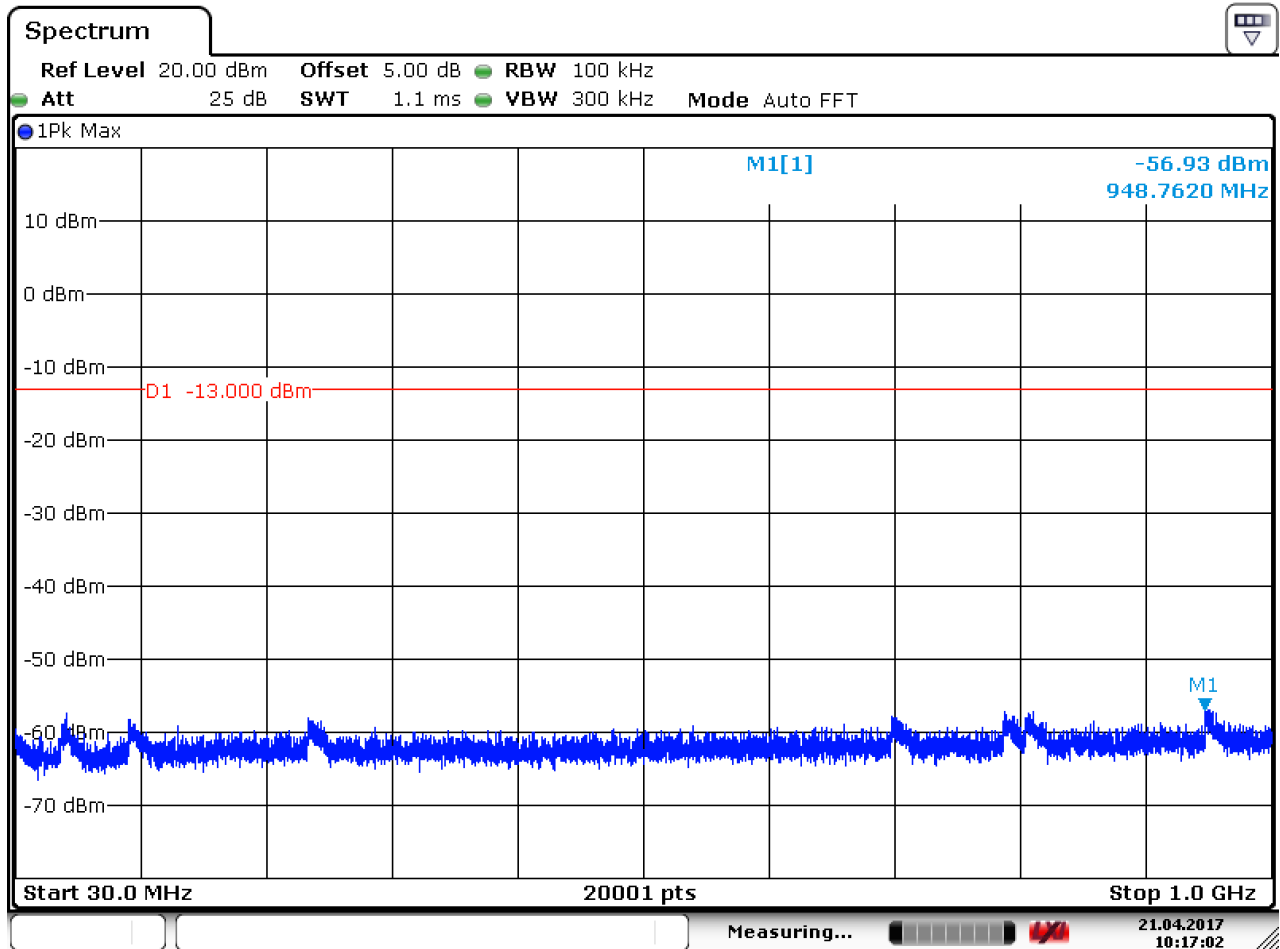
Date: 21.APR.2017 12:09:29



Date: 21.APR.2017 12:08:56



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

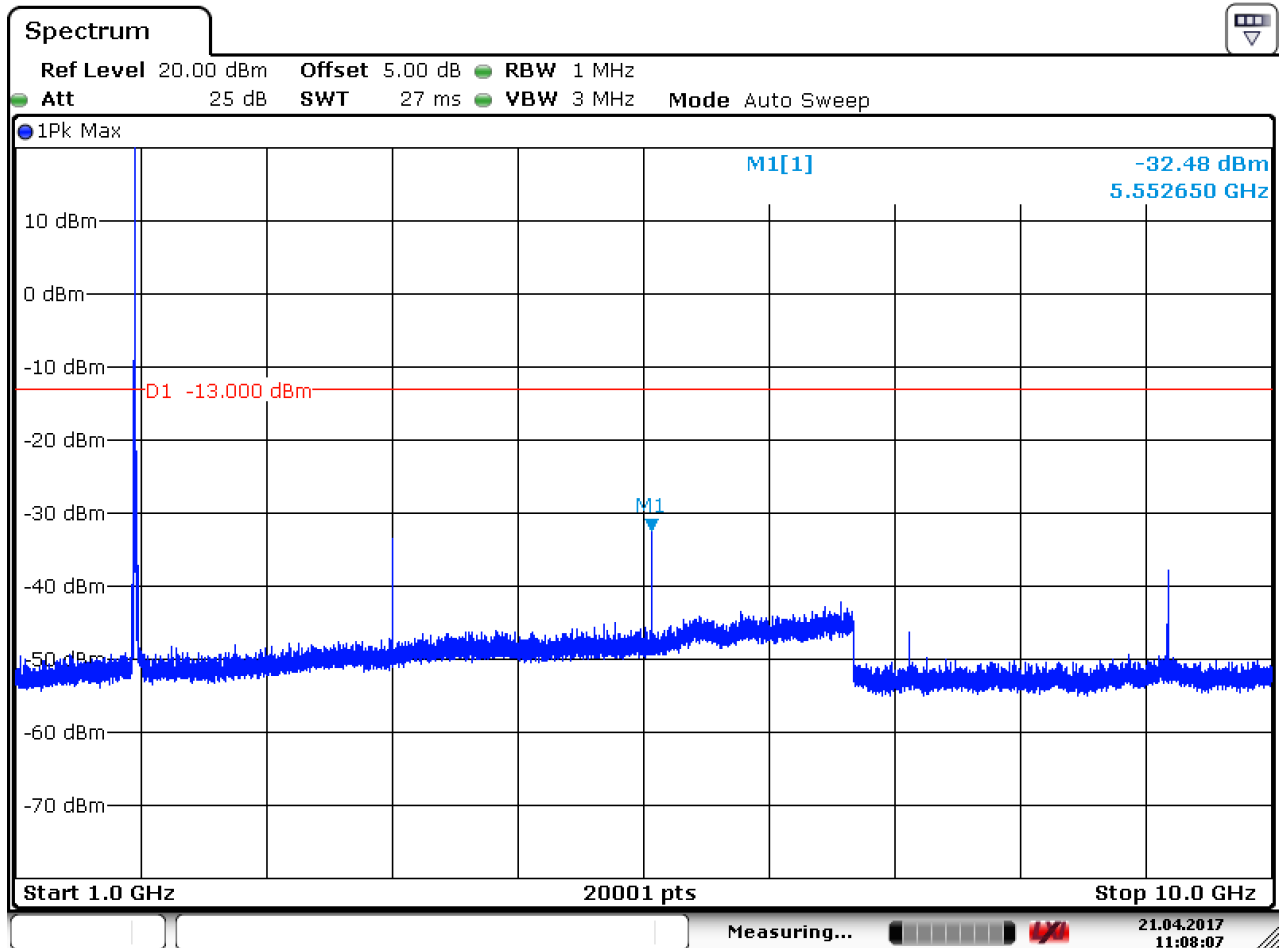


Date: 21.APR.2017 10:17:02

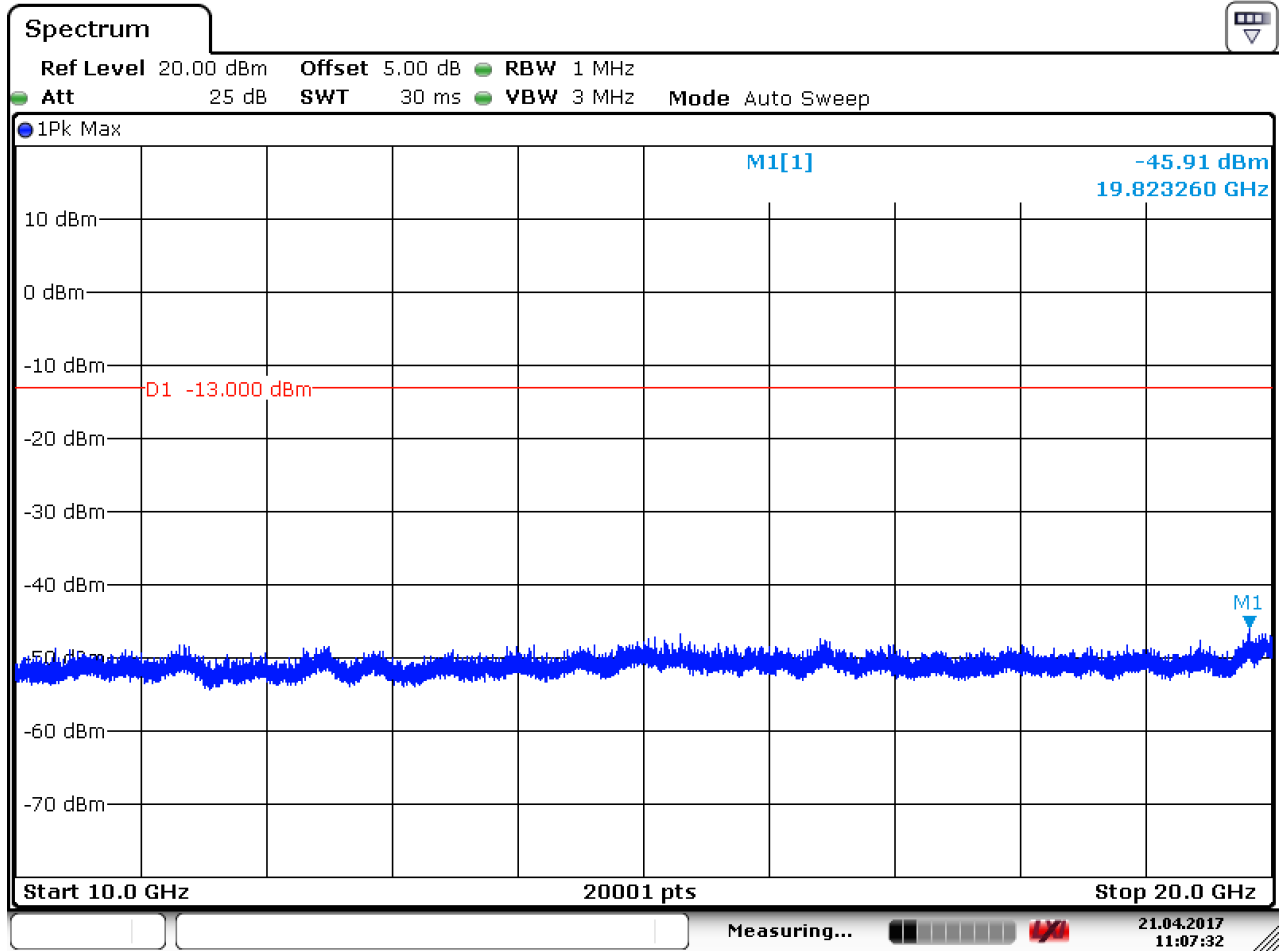




6.1.1.5.2 Test Channel = MCH



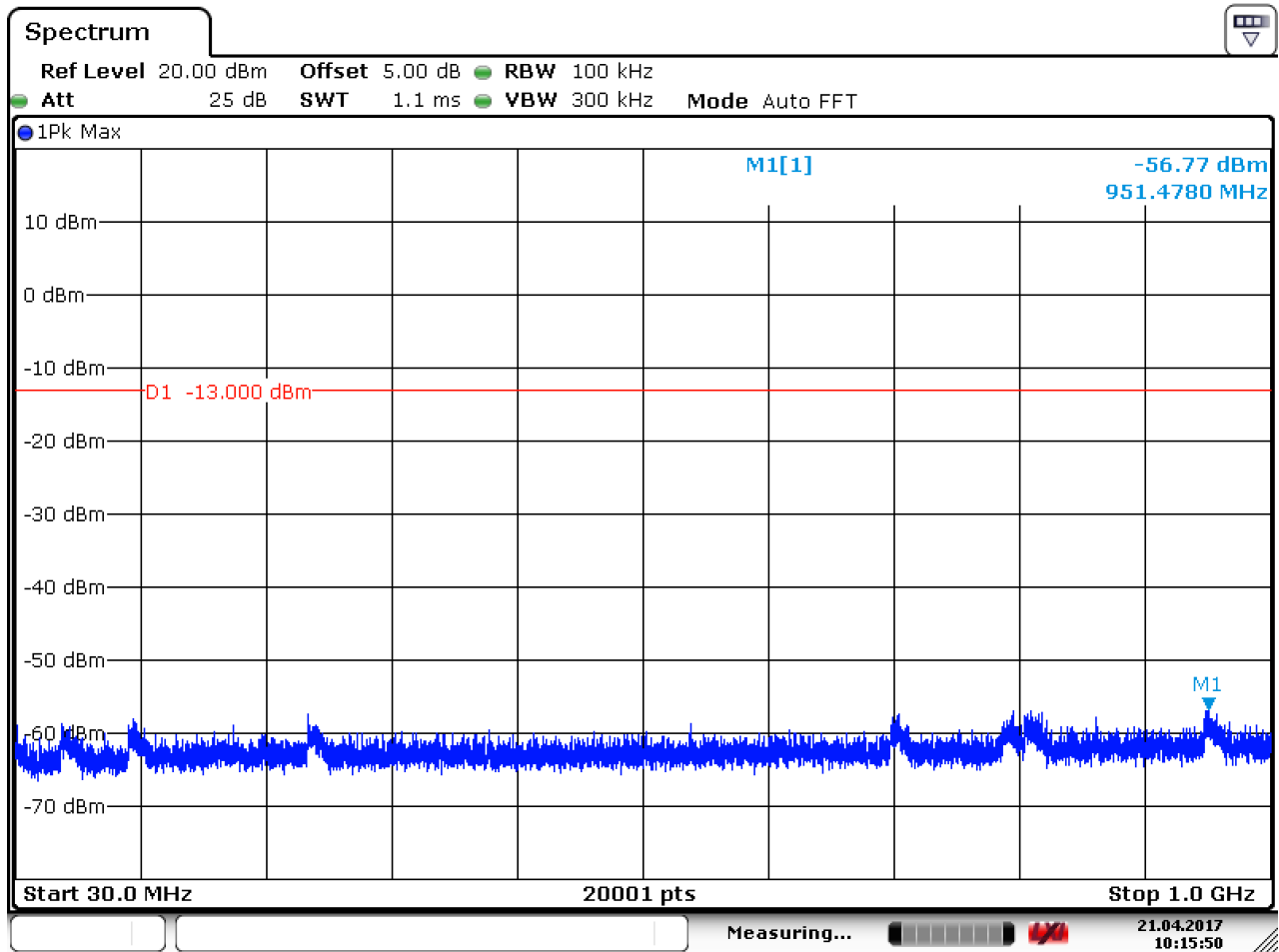
Date: 21.APR.2017 11:08:08



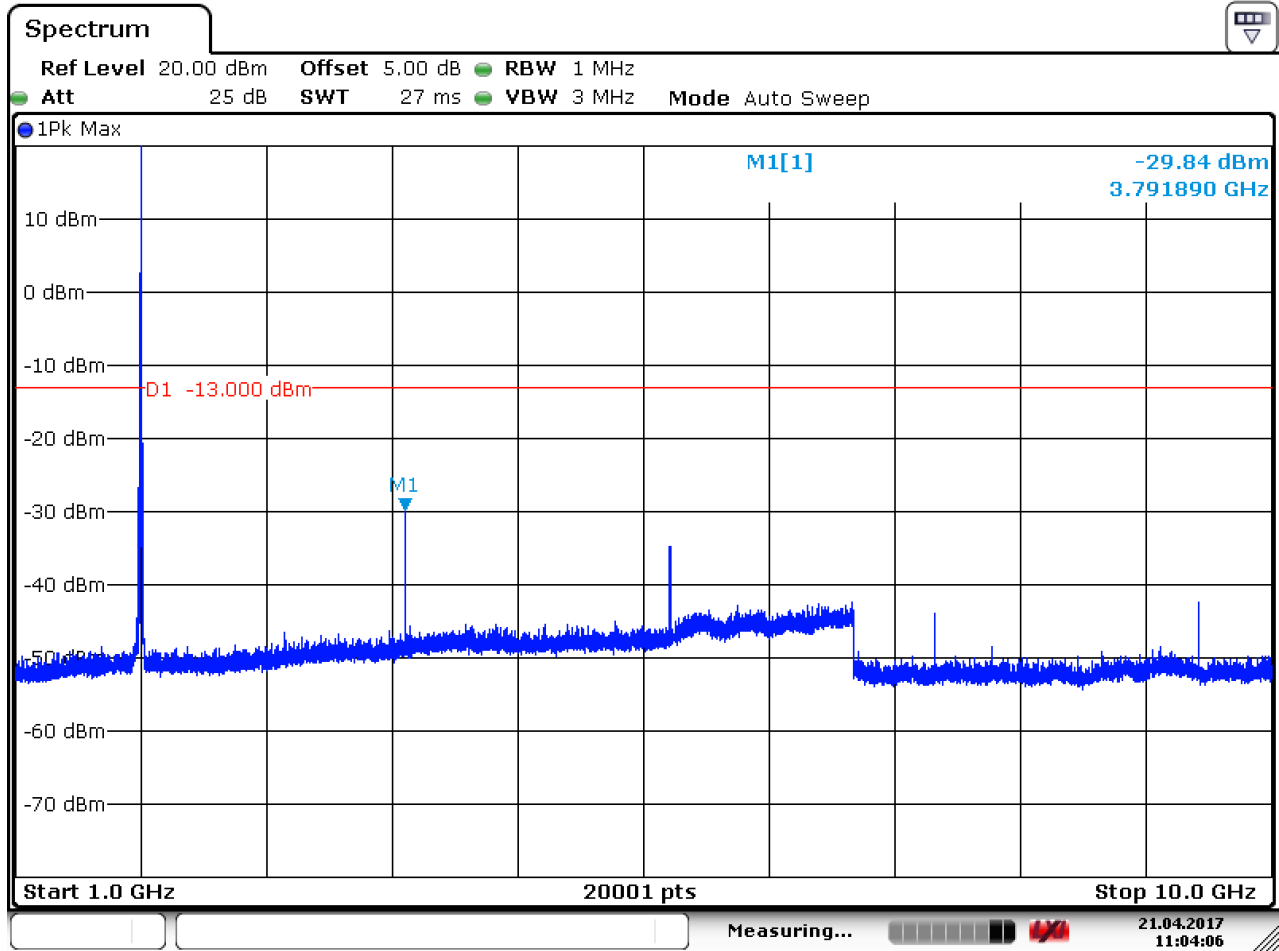
Date: 21.APR.2017 11:07:32



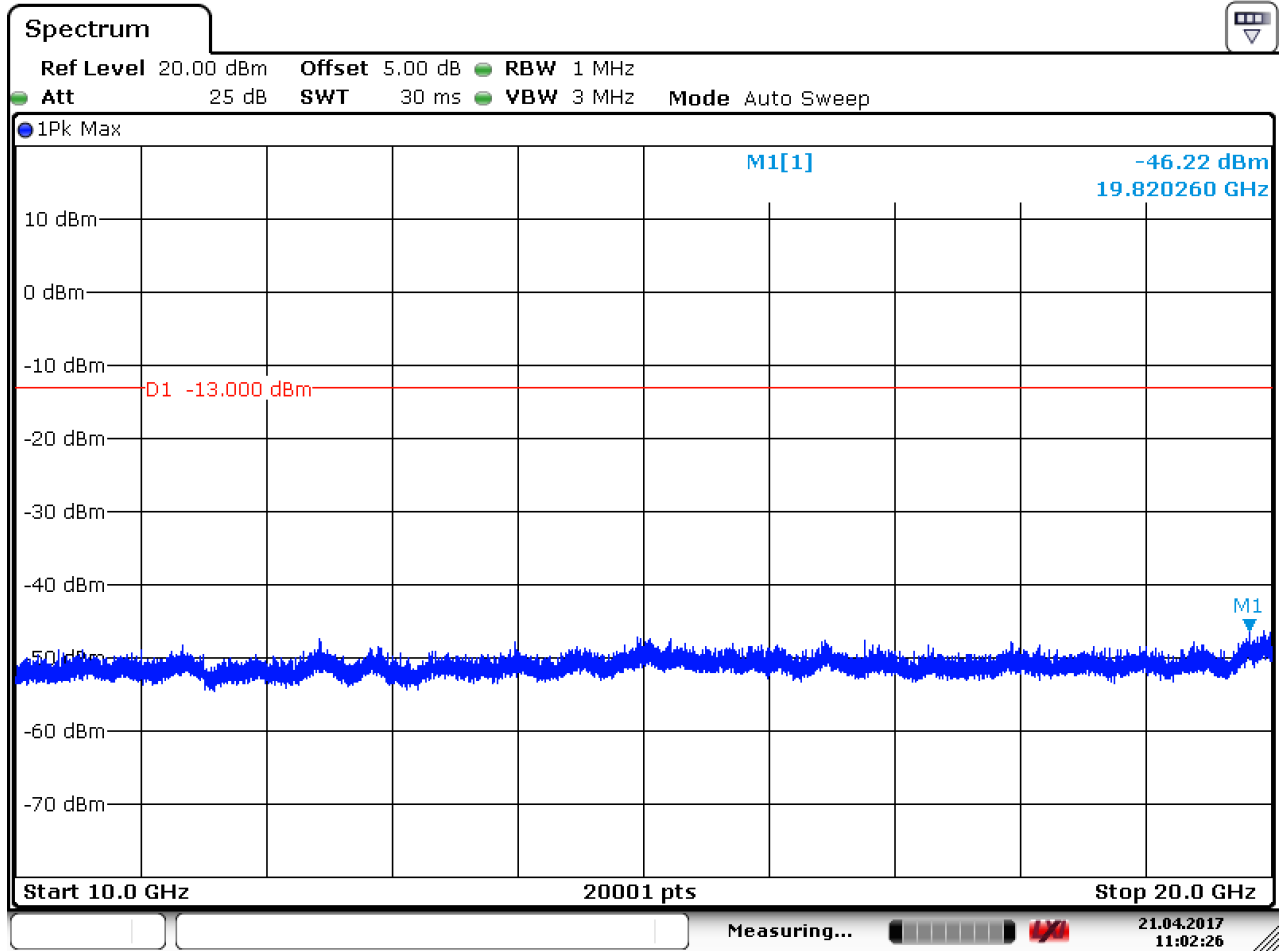
6.1.1.5.3 Test Channel = HCH



Date: 21.APR.2017 10:15:50



Date: 21.APR.2017 11:04:07

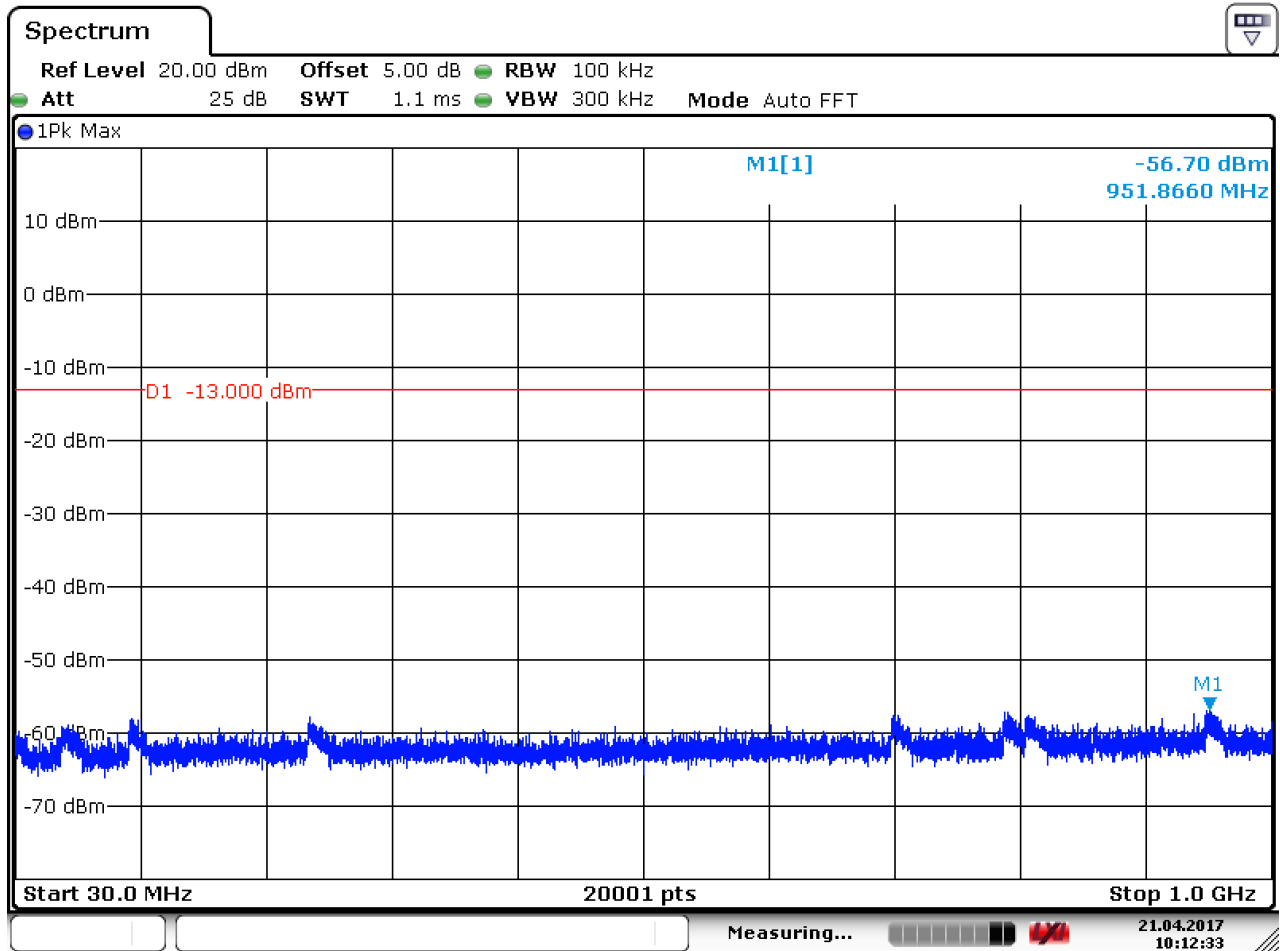


Date: 21.APR.2017 11:02:26

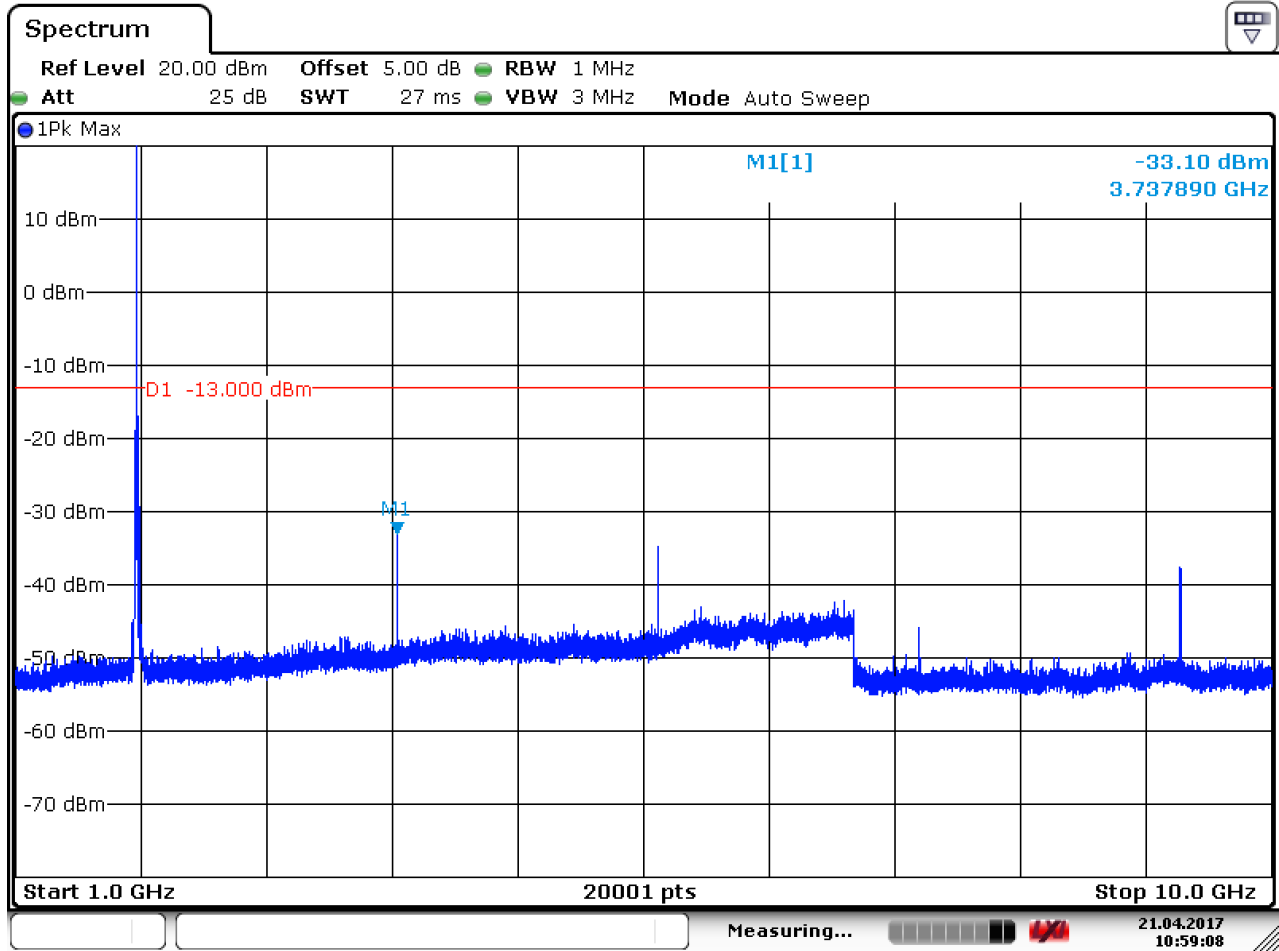


6.1.1.6 Test Mode = LTE / TM1 20MHz RB1#0

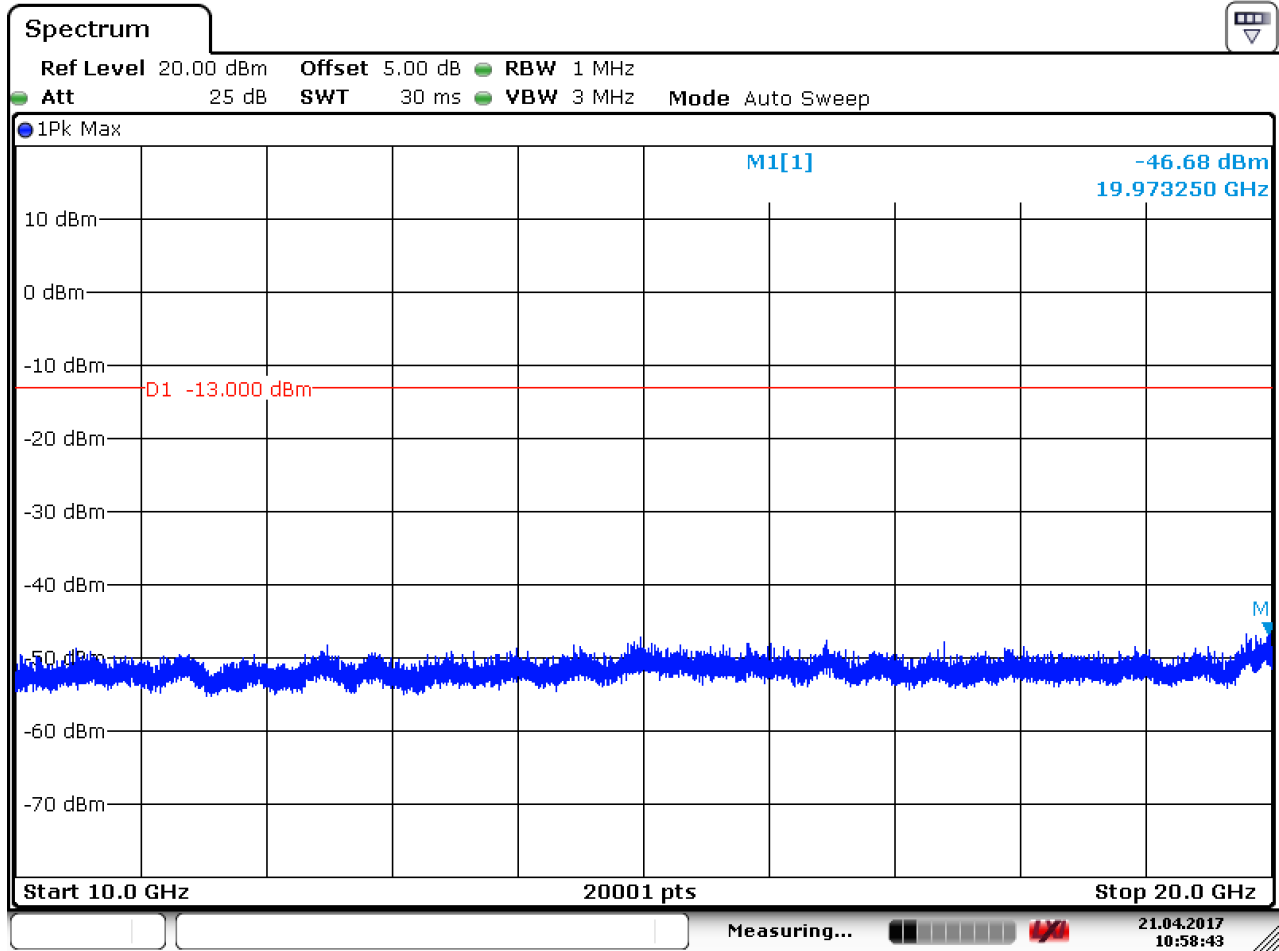
6.1.1.6.1 Test Channel = LCH



Date: 21.APR.2017 10:12:33



Date: 21.APR.2017 10:59:08

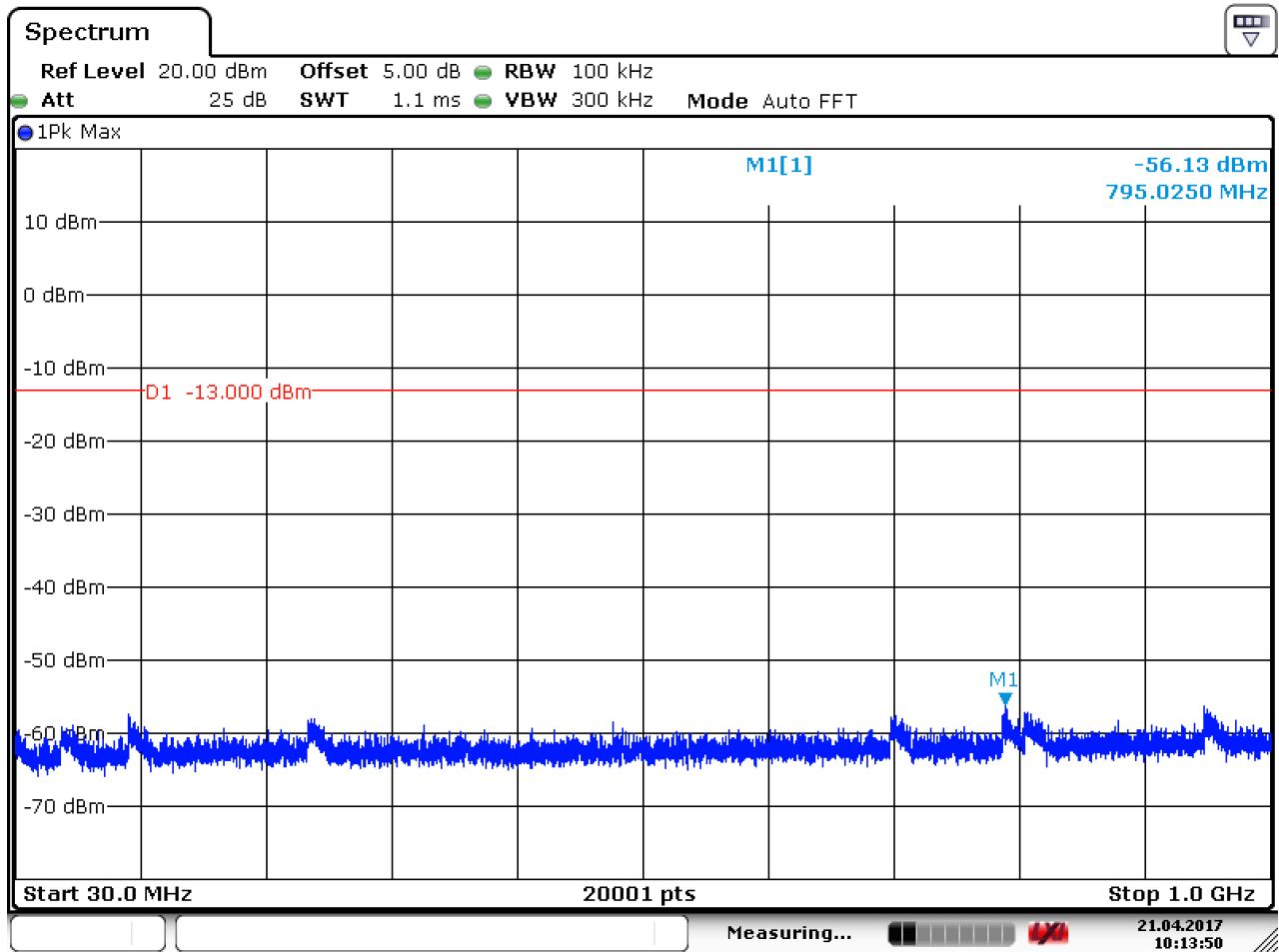


Date: 21.APR.2017 10:58:43

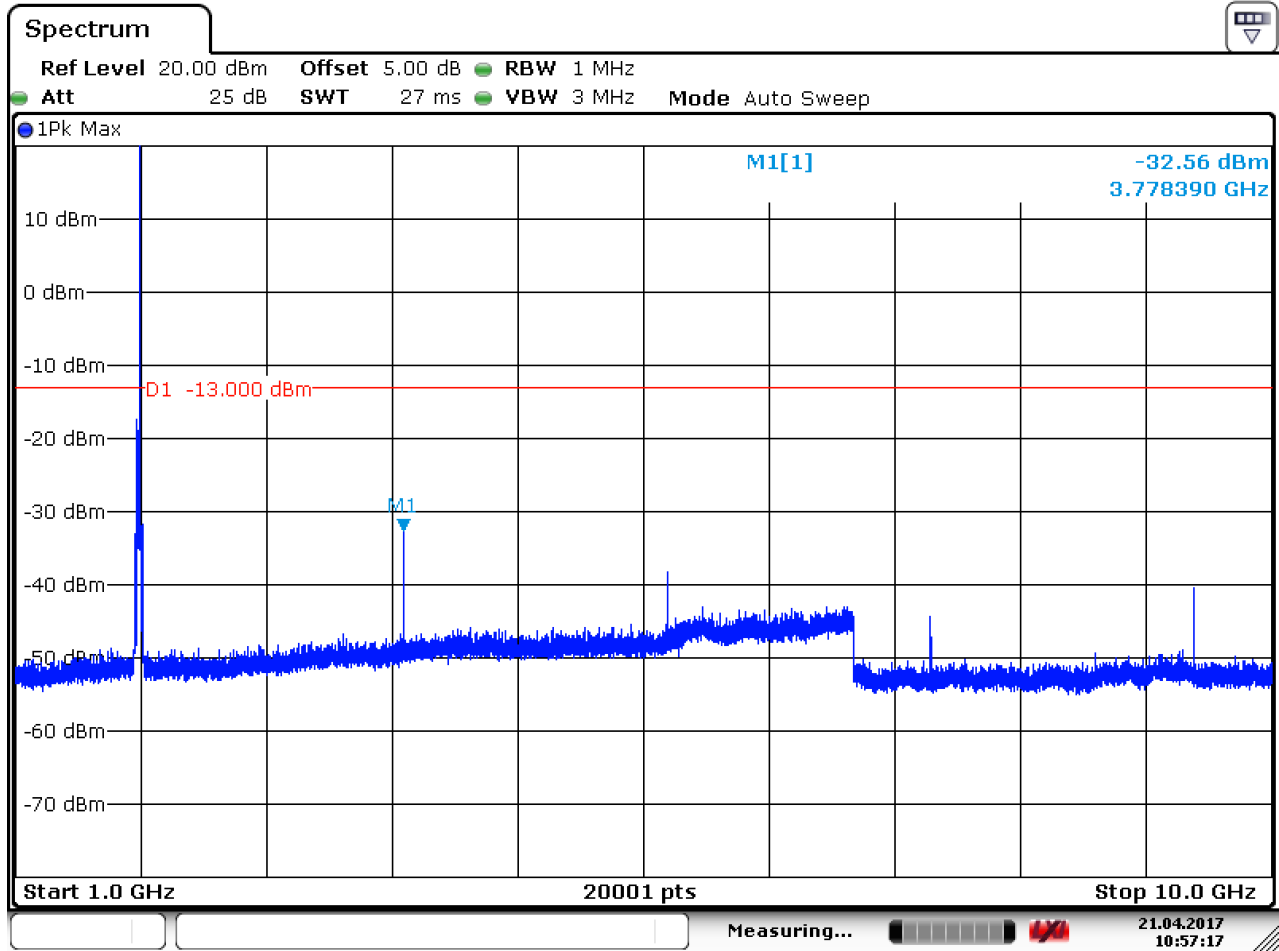




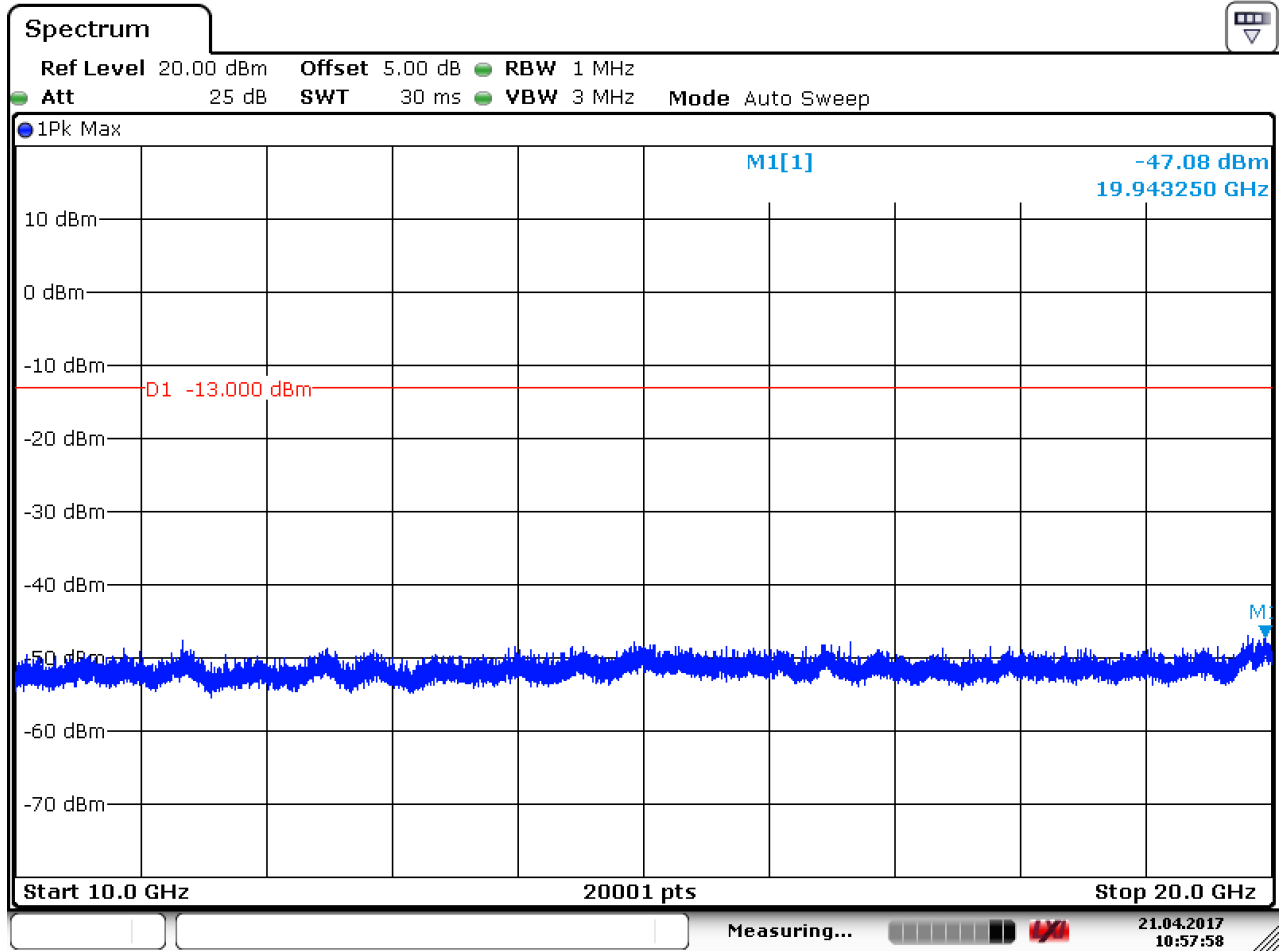
6.1.1.6.2 Test Channel = MCH



Date: 21.APR.2017 10:13:51



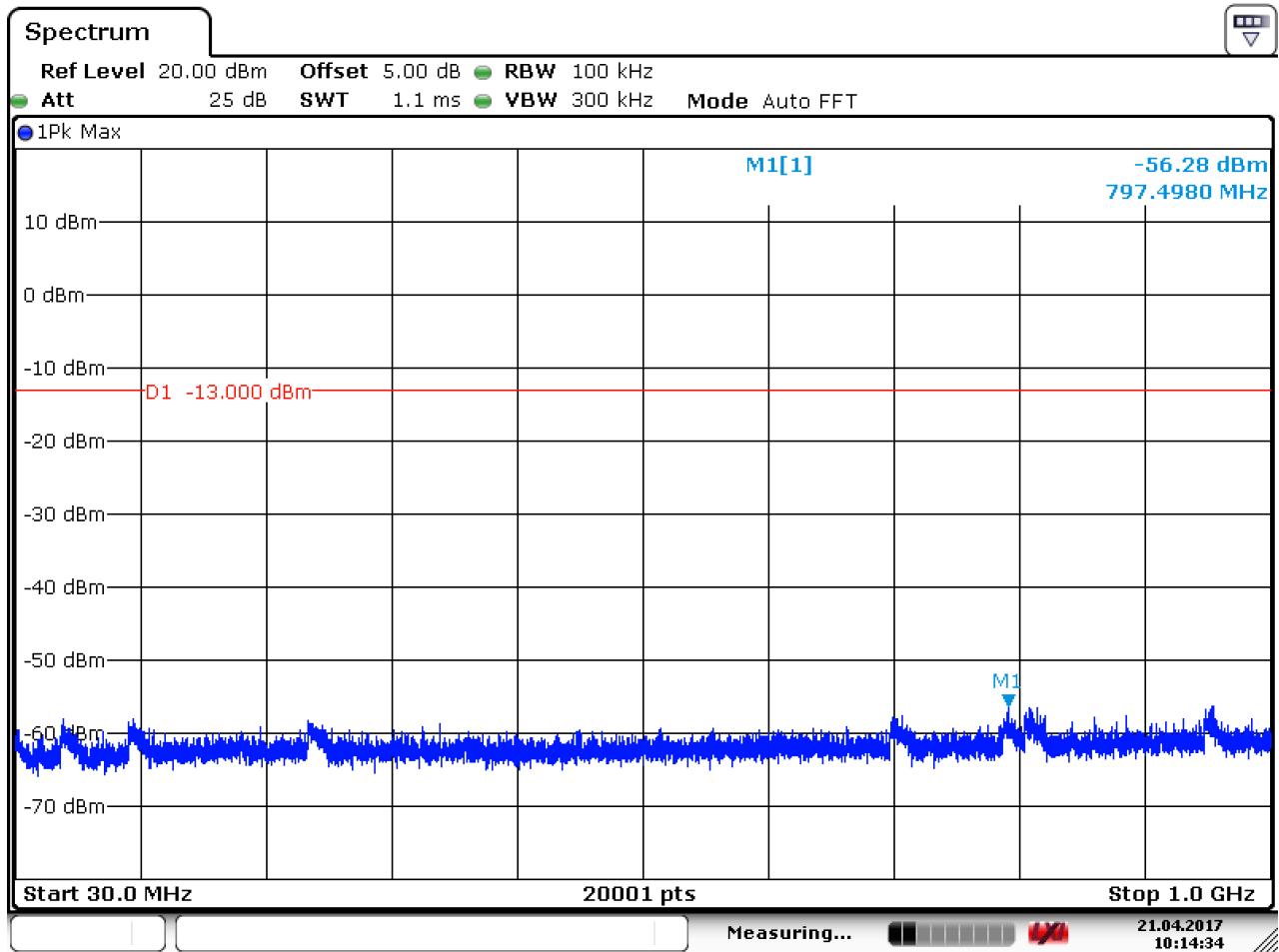
Date: 21.APR.2017 10:57:17



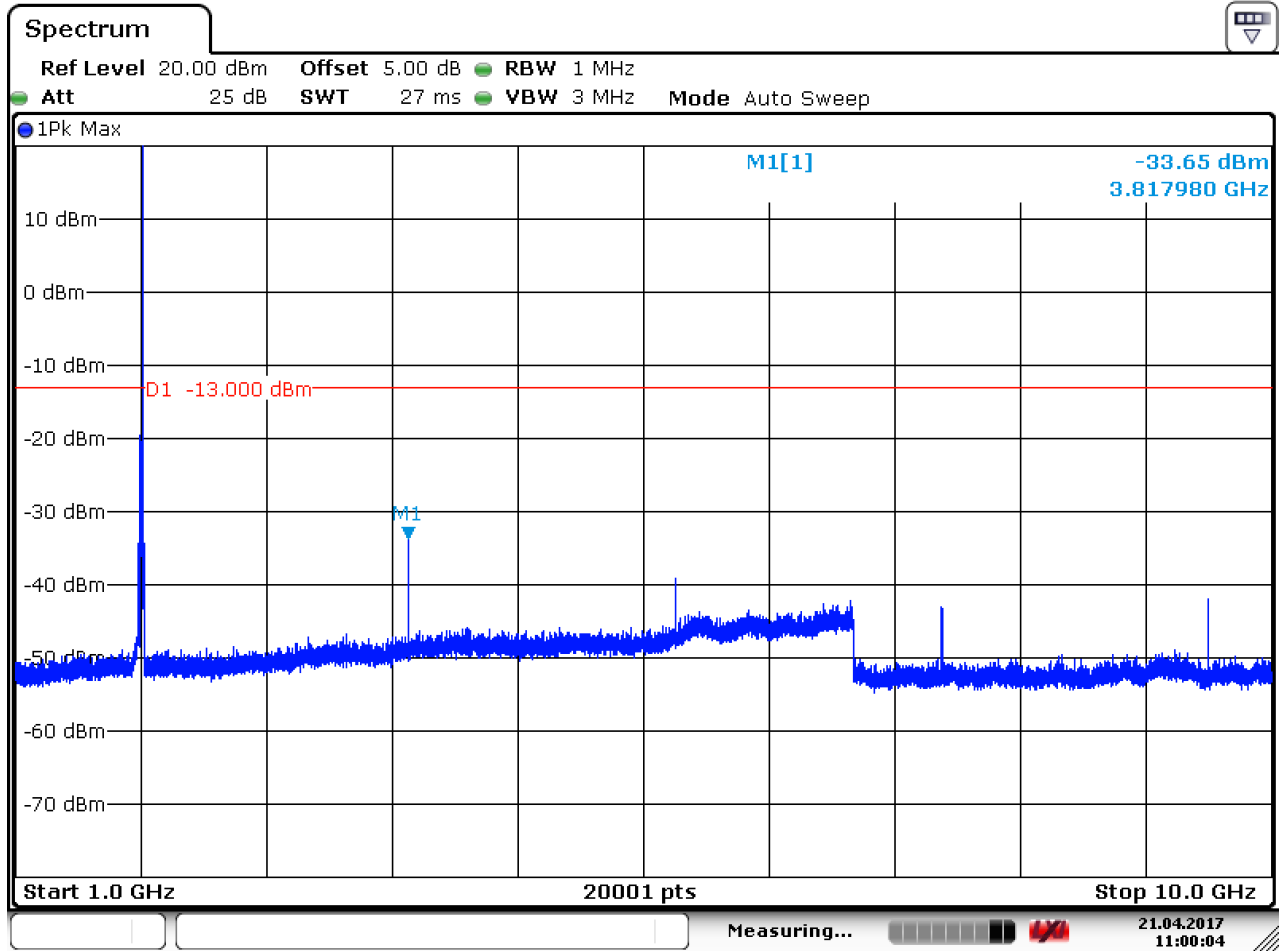
Date: 21.APR.2017 10:57:58



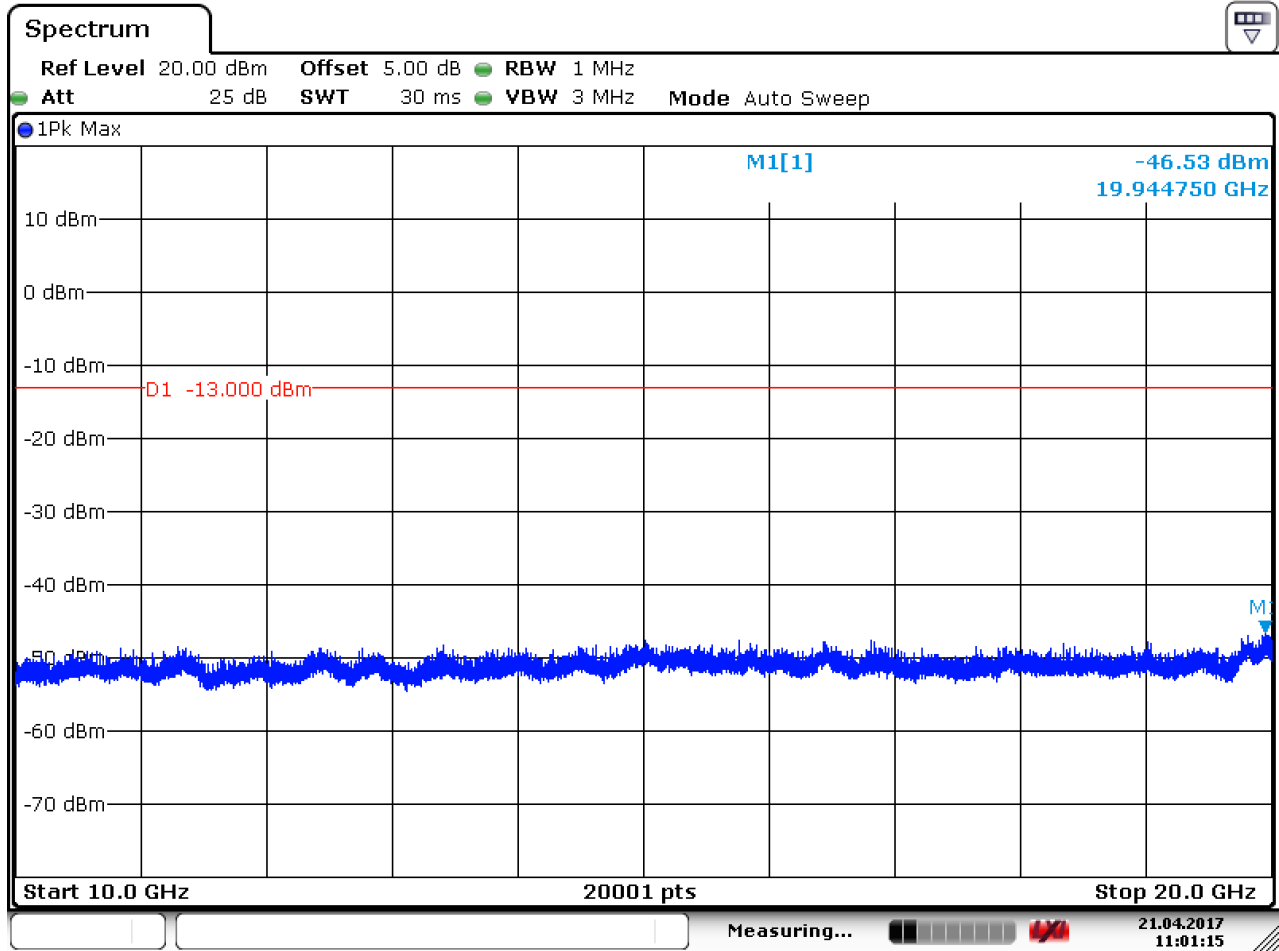
6.1.1.6.3 Test Channel = HCH



Date: 21.APR.2017 10:14:34



Date: 21.APR.2017 11:00:04



Date: 21.APR.2017 11:01:15



## 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
1177.000	-66.79	-13.00	-53.79	Vertical
4657.50	-68.14	-13.00	-55.14	Vertical
6607.500	-66.30	-13.00	-53.30	Vertical
1100.000	-66.54	-13.00	-53.54	Horizontal
4657.500	-68.12	-13.00	-55.12	Horizontal
7972.500	-65.30	-13.00	-52.30	Horizontal

###### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1199.000	-66.12	-13.00	-53.12	Vertical
4170.000	-68.05	-13.00	-55.05	Vertical
5145.000	-67.81	-13.00	-54.81	Vertical
1199.000	-66.85	-13.00	-53.85	Horizontal
4365.000	-68.17	-13.00	-55.17	Horizontal
6022.500	-66.76	-13.00	-53.76	Horizontal

###### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1221.000	-66.13	-13.00	-53.13	Vertical
4462.500	-68.40	-13.00	-55.40	Vertical
6900.0000	-65.87	-13.00	-52.87	Vertical
1210.000	-66.82	-13.00	-53.82	Horizontal
5632.500	-67.40	-13.00	-54.40	Horizontal
7095.000	-66.23	-13.00	-53.23	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	-3.03	-0.00163	PASS
				VN	2.46	0.00132	PASS
				VH	-5.73	-0.00308	PASS
		MCH	TN	VL	1.49	0.00079	PASS
				VN	-2.80	-0.00149	PASS
				VH	2.63	0.00140	PASS
		HCH	TN	VL	-4.56	-0.00240	PASS
				VN	-5.17	-0.00272	PASS
				VH	-2.79	-0.00147	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.28	-0.00230	PASS
				VN	-2.55	-0.00137	PASS
				VH	-5.16	-0.00277	PASS
		MCH	TN	VL	1.52	0.00081	PASS
				VN	-3.80	-0.00202	PASS
				VH	2.19	0.00116	PASS
		HCH	TN	VL	-4.03	-0.00212	PASS
				VN	1.46	0.00077	PASS
				VH	-7.23	-0.00381	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
LTEband2	LTE/TM1 20MHz	LCH	VN	-30	-5.40	-0.00290	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	4.13	0.00222	PASS
				30	-0.31	-0.00017	PASS
				40	-3.14	-0.00169	PASS
				50	2.59	0.00139	PASS
		MCH	VN	-30	-2.80	-0.00149	PASS
				-20	-5.95	-0.00316	PASS
				-10	-7.49	-0.00398	PASS
				0	-5.62	-0.00299	PASS
				10	-4.46	-0.00237	PASS
				20	-1.94	-0.00103	PASS
				30	-5.66	-0.00301	PASS
				40	-2.62	-0.00139	PASS
				50	-6.92	-0.00368	PASS
		HCH	VN	-30	4.54	0.00239	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-4.83	-0.00254	PASS
				10	2.60	0.00137	PASS
				20	-1.57	-0.00083	PASS
				30	-2.66	-0.00140	PASS
				40	-3.43	-0.00181	PASS
				50	-7.90	-0.00453	PASS



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**Shenzhen Branch**

Report No.: SZEM170300261304

Page: 173 of 173

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM2 20MHz	LCH	VN	-30	-4.50	-0.00242	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	-2.23	-0.00120	PASS
				30	-0.44	-0.00024	PASS
				40	5.34	0.00287	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	-1.34	-0.00071	PASS
				20	1.74	0.00093	PASS
				30	-3.84	-0.00204	PASS
				40	-2.62	-0.00139	PASS
		HCH	VN	-30	4.34	0.00228	PASS
				-20	-2.55	-0.00134	PASS
				-10	1.59	0.00084	PASS
				0	-3.93	-0.00207	PASS
				10	1.88	0.00099	PASS
				20	-1.45	-0.00076	PASS
				30	-2.29	-0.00121	PASS
				40	-4.13	-0.00217	PASS
			50	-6.60	-0.00378	PASS	

The End