



# Appendix B

## Test Data for SZEM170300153901



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# 1 Effective (Isotropic) Radiated Power Output Data

**Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 41**

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	5M	LCH	RB1#0	23.58	24.88	33.00	PASS
				RB1#13	23.73	25.03	33.00	PASS
				RB1#24	23.37	24.67	33.00	PASS
				RB12#0	22.72	24.02	33.00	PASS
				RB12#6	22.70	24.00	33.00	PASS
				RB12#13	22.48	23.78	33.00	PASS
				RB25#0	22.68	23.98	33.00	PASS
			MCH	RB1#0	23.23	24.53	33.00	PASS
				RB1#13	23.30	24.60	33.00	PASS
				RB1#24	23.04	24.34	33.00	PASS
				RB12#0	22.62	23.92	33.00	PASS
				RB12#6	22.65	23.95	33.00	PASS
				RB12#13	22.45	23.75	33.00	PASS
				RB25#0	22.48	23.78	33.00	PASS
			HCH	RB1#0	23.03	24.33	33.00	PASS
				RB1#13	23.12	24.42	33.00	PASS
				RB1#24	22.87	24.17	33.00	PASS
				RB12#0	22.30	23.60	33.00	PASS
				RB12#6	22.30	23.60	33.00	PASS
				RB12#13	22.18	23.48	33.00	PASS
				RB25#0	22.11	23.41	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	5M	LCH	RB1#0	22.26	23.56	33.00	PASS
				RB1#13	22.43	23.73	33.00	PASS
				RB1#24	22.10	23.40	33.00	PASS
				RB12#0	21.47	22.77	33.00	PASS
				RB12#6	21.81	23.11	33.00	PASS
				RB12#13	21.68	22.98	33.00	PASS
				RB25#0	21.90	23.20	33.00	PASS
			MCH	RB1#0	22.00	23.30	33.00	PASS
				RB1#13	22.17	23.47	33.00	PASS
				RB1#24	22.00	23.30	33.00	PASS
				RB12#0	21.54	22.84	33.00	PASS
				RB12#6	21.64	22.94	33.00	PASS
				RB12#13	21.54	22.84	33.00	PASS
				RB25#0	21.70	23.00	33.00	PASS
			HCH	RB1#0	21.87	23.17	33.00	PASS
				RB1#13	21.99	23.29	33.00	PASS
				RB1#24	21.70	23.00	33.00	PASS
				RB12#0	21.04	22.34	33.00	PASS
				RB12#6	21.33	22.63	33.00	PASS
				RB12#13	21.19	22.49	33.00	PASS
				RB25#0	21.23	22.53	33.00	PASS

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BAND2	LTE/TM1	10M	LCH	RB1#0	23.64	24.94	33.00	PASS
				RB1#25	23.65	24.95	33.00	PASS
				RB1#49	23.43	24.73	33.00	PASS
				RB25#0	22.75	24.05	33.00	PASS
				RB25#13	22.61	23.91	33.00	PASS
				RB25#25	22.49	23.79	33.00	PASS
				RB50#0	22.59	23.89	33.00	PASS
			MCH	RB1#0	23.32	24.62	33.00	PASS
				RB1#25	23.24	24.54	33.00	PASS
				RB1#49	22.97	24.27	33.00	PASS
				RB25#0	22.53	23.83	33.00	PASS
				RB25#13	22.50	23.80	33.00	PASS
				RB25#25	22.35	23.65	33.00	PASS
				RB50#0	22.51	23.81	33.00	PASS
			HCH	RB1#0	23.00	24.30	33.00	PASS
				RB1#25	23.24	24.54	33.00	PASS
				RB1#49	22.99	24.29	33.00	PASS
				RB25#0	22.26	23.56	33.00	PASS
				RB25#13	22.27	23.57	33.00	PASS
				RB25#25	22.12	23.42	33.00	PASS
				RB50#0	22.21	23.51	33.00	PASS

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BAND2	LTE/TM2	10M	LCH	RB1#0	22.49	23.79	33.00	PASS
				RB1#25	22.31	23.61	33.00	PASS
				RB1#49	22.13	23.43	33.00	PASS
				RB25#0	21.89	23.19	33.00	PASS
				RB25#13	21.83	23.13	33.00	PASS
				RB25#25	21.61	22.91	33.00	PASS
				RB50#0	21.63	22.93	33.00	PASS
			MCH	RB1#0	22.35	23.65	33.00	PASS
				RB1#25	22.37	23.67	33.00	PASS
				RB1#49	21.78	23.08	33.00	PASS
				RB25#0	21.74	23.04	33.00	PASS
				RB25#13	21.62	22.92	33.00	PASS
				RB25#25	21.56	22.86	33.00	PASS
				RB50#0	21.44	22.74	33.00	PASS
			HCH	RB1#0	21.93	23.23	33.00	PASS
				RB1#25	21.97	23.27	33.00	PASS
				RB1#49	21.70	23.00	33.00	PASS
				RB25#0	21.36	22.66	33.00	PASS
				RB25#13	21.46	22.76	33.00	PASS
				RB25#25	21.42	22.72	33.00	PASS
				RB50#0	21.21	22.51	33.00	PASS

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BAND2	LTE/TM1	15M	LCH	RB1#0	23.87	25.17	33.00	PASS
				RB1#38	23.81	25.11	33.00	PASS
				RB1#74	23.46	24.76	33.00	PASS
				RB36#0	22.64	23.94	33.00	PASS
				RB36#18	22.56	23.86	33.00	PASS
				RB36#39	22.55	23.85	33.00	PASS
				RB75#0	22.66	23.96	33.00	PASS
			MCH	RB1#0	23.51	24.81	33.00	PASS
				RB1#38	23.42	24.72	33.00	PASS
				RB1#74	23.12	24.42	33.00	PASS
				RB36#0	22.67	23.97	33.00	PASS
				RB36#18	22.46	23.76	33.00	PASS
				RB36#39	22.23	23.53	33.00	PASS
				RB75#0	22.46	23.76	33.00	PASS
			HCH	RB1#0	23.00	24.30	33.00	PASS
				RB1#38	23.35	24.65	33.00	PASS
				RB1#74	23.04	24.34	33.00	PASS
				RB36#0	22.27	23.57	33.00	PASS
				RB36#18	22.21	23.51	33.00	PASS
				RB36#39	22.13	23.43	33.00	PASS
				RB75#0	22.21	23.51	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	15M	LCH	RB1#0	22.39	23.69	33.00	PASS
				RB1#38	22.46	23.76	33.00	PASS
				RB1#74	22.26	23.56	33.00	PASS
				RB36#0	21.64	22.94	33.00	PASS
				RB36#18	21.63	22.93	33.00	PASS
				RB36#39	21.44	22.74	33.00	PASS
				RB75#0	21.58	22.88	33.00	PASS
			MCH	RB1#0	22.44	23.74	33.00	PASS
				RB1#38	22.07	23.37	33.00	PASS
				RB1#74	21.88	23.18	33.00	PASS
				RB36#0	21.64	22.94	33.00	PASS
				RB36#18	21.48	22.78	33.00	PASS
				RB36#39	21.31	22.61	33.00	PASS
				RB75#0	21.55	22.85	33.00	PASS
			HCH	RB1#0	21.69	22.99	33.00	PASS
				RB1#38	22.06	23.36	33.00	PASS
				RB1#74	21.82	23.12	33.00	PASS
				RB36#0	21.23	22.53	33.00	PASS
				RB36#18	21.25	22.55	33.00	PASS
				RB36#39	21.12	22.42	33.00	PASS
				RB75#0	21.21	22.51	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	20M	LCH	RB1#0	23.67	24.97	33.00	PASS
				RB1#50	23.63	24.93	33.00	PASS
				RB1#99	23.25	24.55	33.00	PASS
				RB50#0	22.65	23.95	33.00	PASS
				RB50#25	22.63	23.93	33.00	PASS
				RB50#50	22.48	23.78	33.00	PASS
				RB100#0	22.59	23.89	33.00	PASS
			MCH	RB1#0	23.34	24.64	33.00	PASS
				RB1#50	23.34	24.64	33.00	PASS
				RB1#99	22.90	24.20	33.00	PASS
				RB50#0	22.71	24.01	33.00	PASS
				RB50#25	22.48	23.78	33.00	PASS
				RB50#50	22.19	23.49	33.00	PASS
				RB100#0	22.44	23.74	33.00	PASS
			HCH	RB1#0	22.74	24.04	33.00	PASS
				RB1#50	23.19	24.49	33.00	PASS
				RB1#99	22.98	24.28	33.00	PASS
				RB50#0	22.13	23.43	33.00	PASS
				RB50#25	22.24	23.54	33.00	PASS
				RB50#50	22.13	23.43	33.00	PASS
				RB100#0	22.12	23.42	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	20M	LCH	RB1#0	22.39	23.69	33.00	PASS
				RB1#50	22.52	23.82	33.00	PASS
				RB1#99	22.10	23.40	33.00	PASS
				RB50#0	21.48	22.78	33.00	PASS
				RB50#25	21.48	22.78	33.00	PASS
				RB50#50	21.38	22.68	33.00	PASS
				RB100#0	21.58	22.88	33.00	PASS
			MCH	RB1#0	22.22	23.52	33.00	PASS
				RB1#50	22.21	23.51	33.00	PASS
				RB1#99	21.68	22.98	33.00	PASS
				RB50#0	21.63	22.93	33.00	PASS
				RB50#25	21.31	22.61	33.00	PASS
				RB50#50	21.12	22.42	33.00	PASS
				RB100#0	21.36	22.66	33.00	PASS
			HCH	RB1#0	21.56	22.86	33.00	PASS
				RB1#50	22.11	23.41	33.00	PASS
				RB1#99	21.68	22.98	33.00	PASS
				RB50#0	21.13	22.43	33.00	PASS
				RB50#25	21.24	22.54	33.00	PASS
				RB50#50	21.12	22.42	33.00	PASS
				RB100#0	21.11	22.41	33.00	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 41	TM1/20M	LCH	5.07	13	PASS
		MCH	4.75	13	PASS
		HCH	5.01	13	PASS
	TM2/20M	LCH	5.62	13	PASS
		MCH	5.80	13	PASS
		HCH	5.62	13	PASS



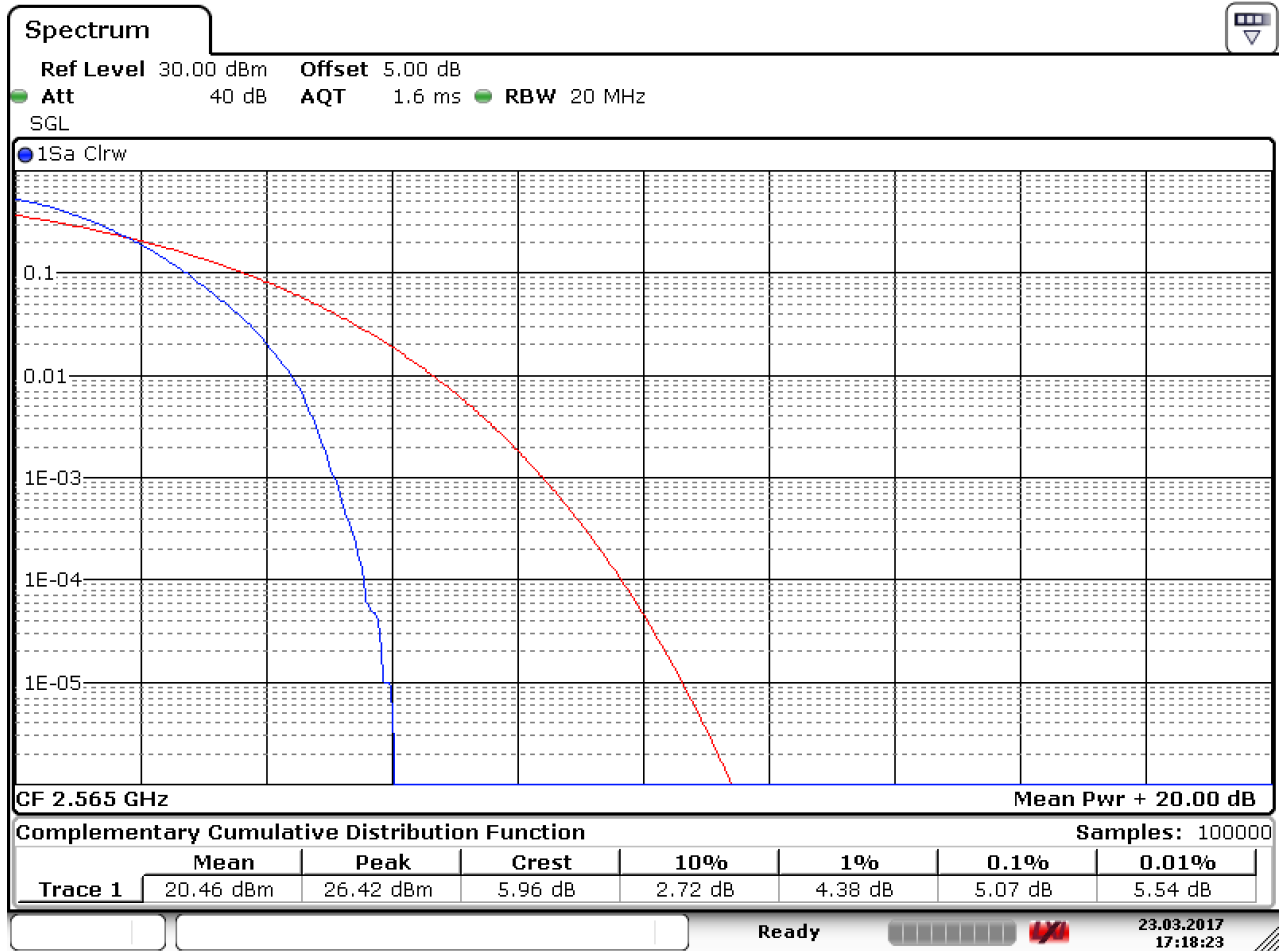
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band41

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

2.1.1.1.1 Test Channel = LCH

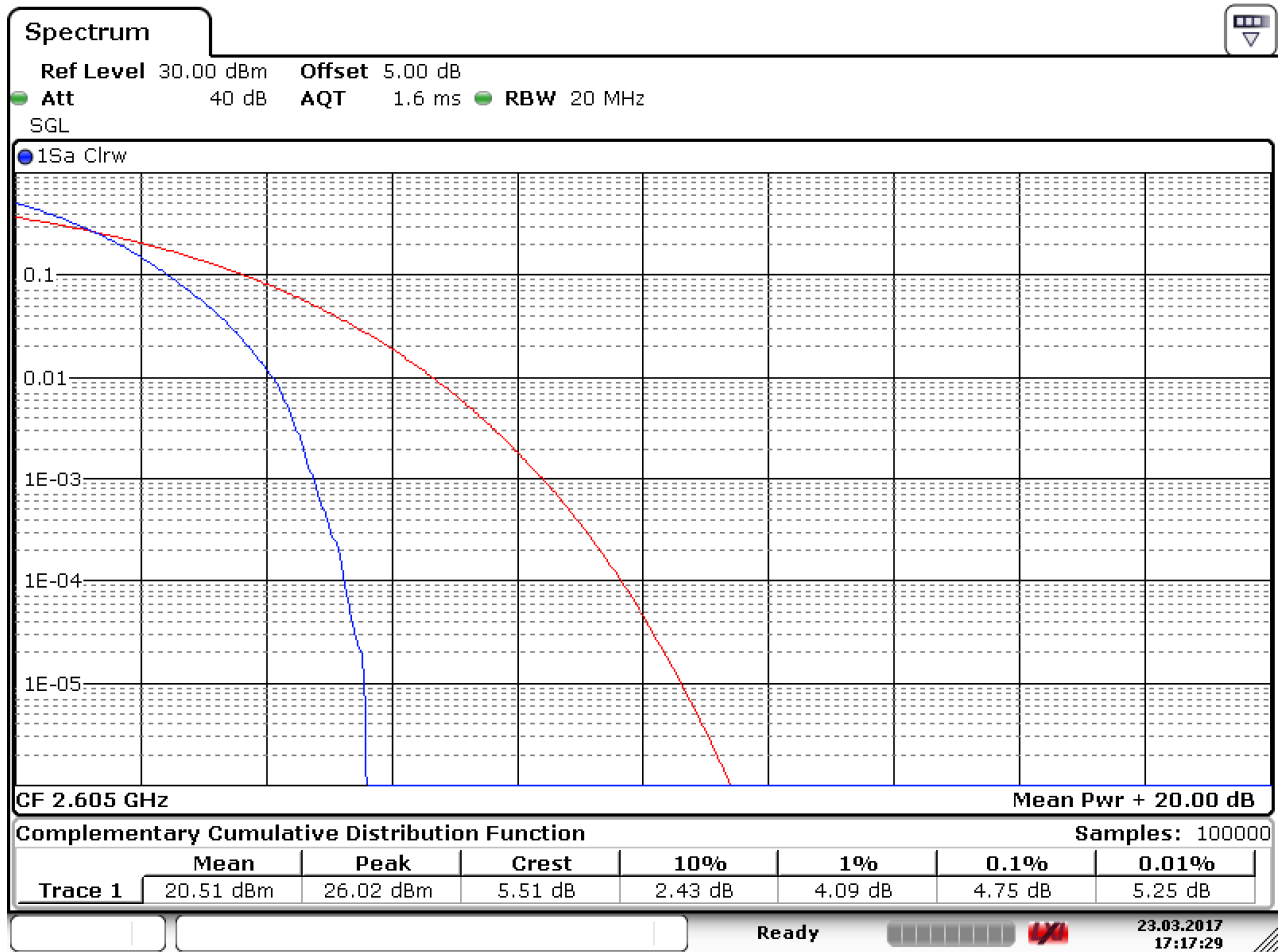


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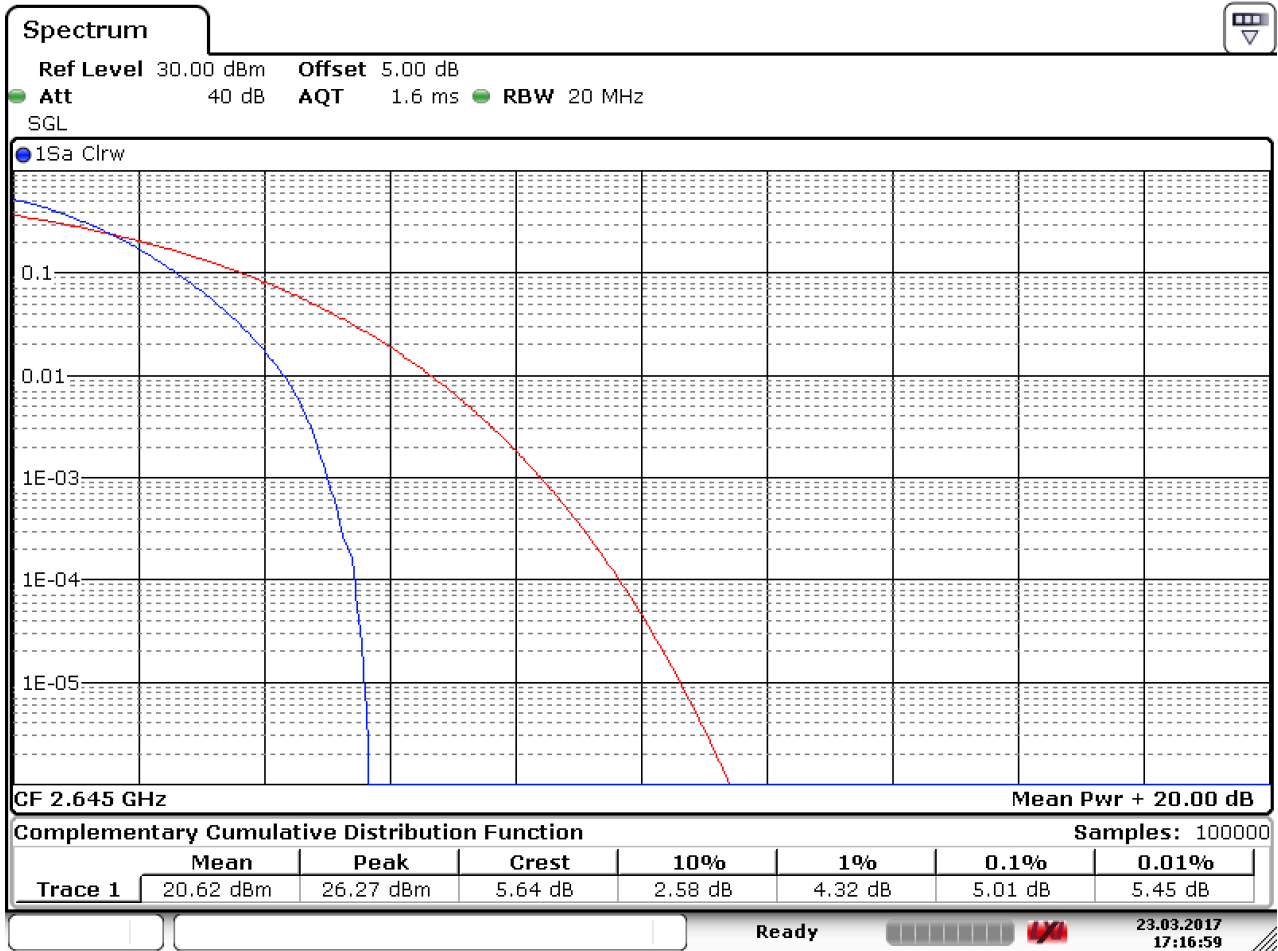
2.1.1.1.2 Test Channel = MCH



Date: 23.MAR.2017 17:17:29



2.1.1.1.3 Test Channel = HCH



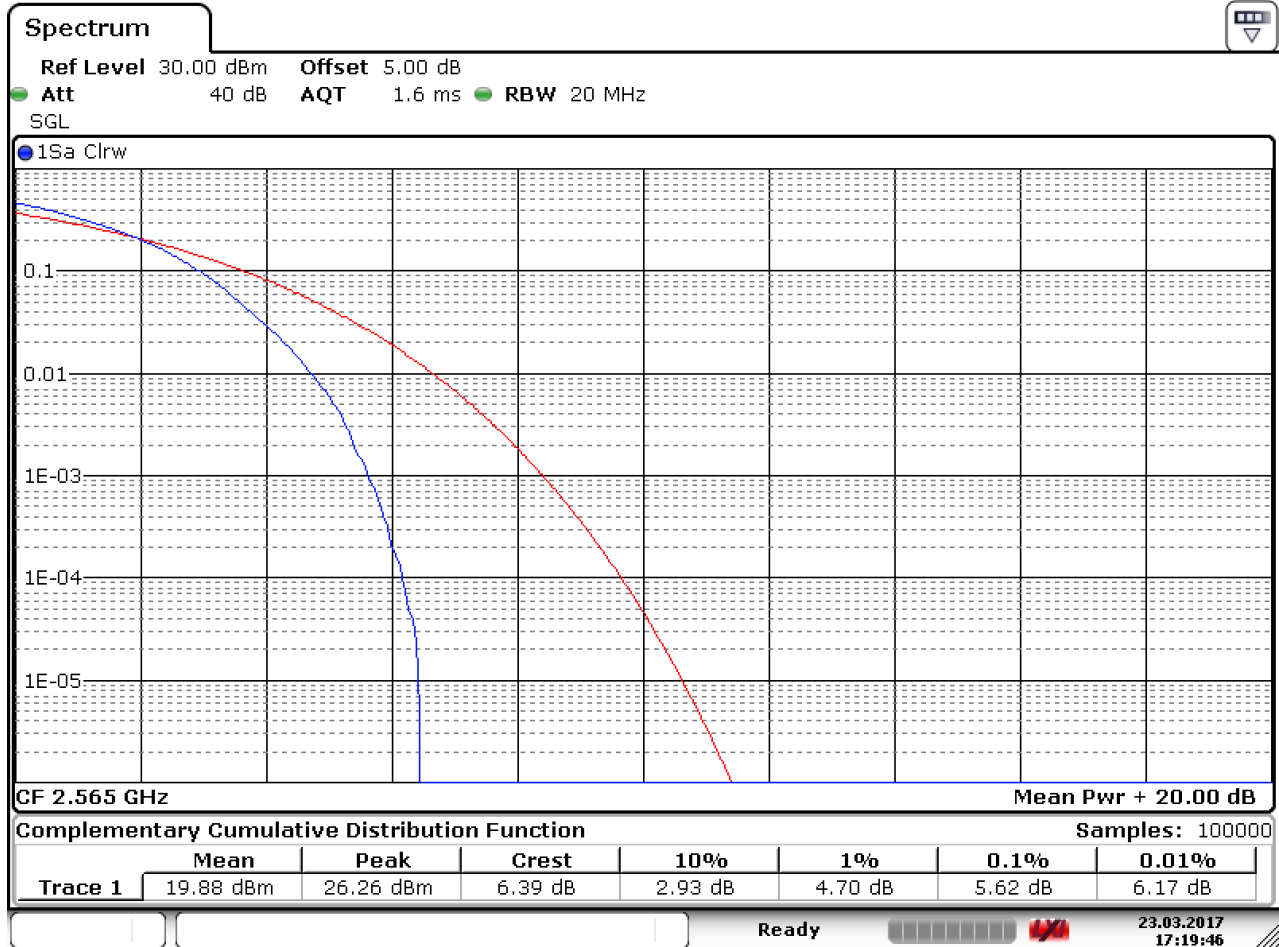
Date: 23.MAR.2017 17:17:00

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**2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz**

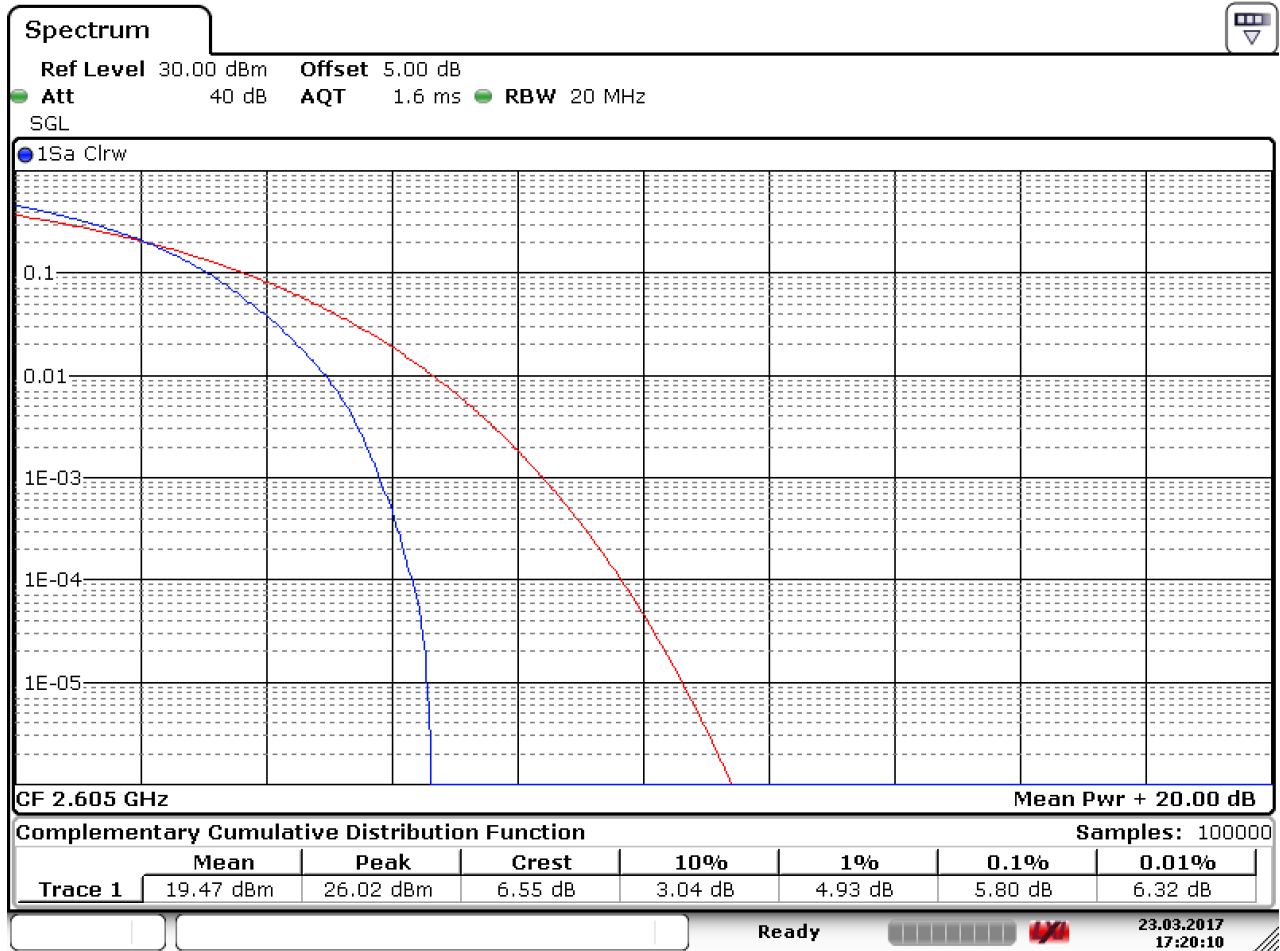
**2.1.1.2.1 Test Channel = LCH**



Date: 23.MAR.2017 17:19:46



2.1.1.2.2 Test Channel = MCH

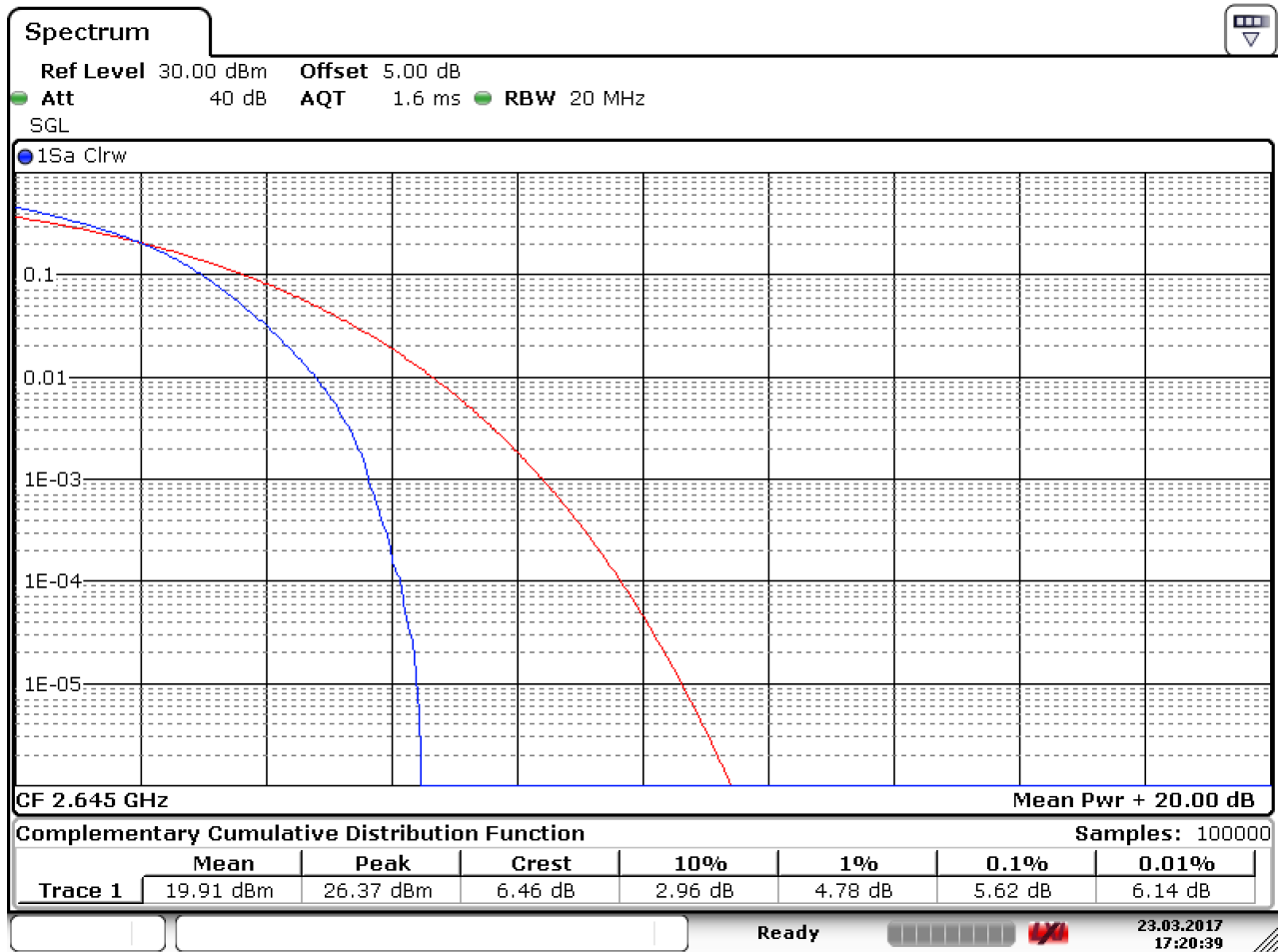


Date: 23.MAR.2017 17:20:10





2.1.1.2.3 Test Channel = HCH



Date: 23.MAR.2017 17:20:40

### 3 Modulation Characteristics

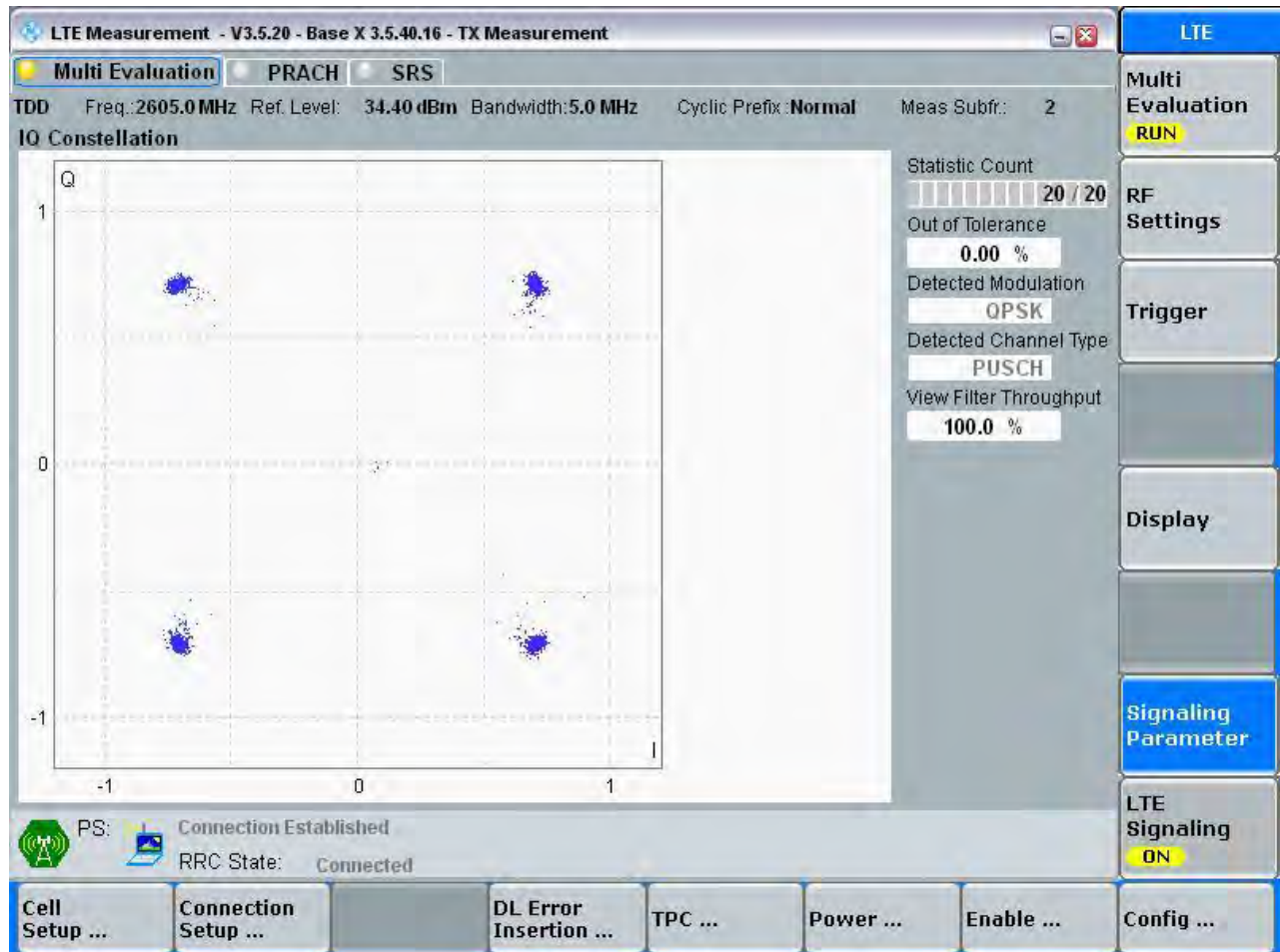
Part I - Test Plots

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE band41

##### 3.1.1.1 Test Mode = LTE /TM1 5MHz

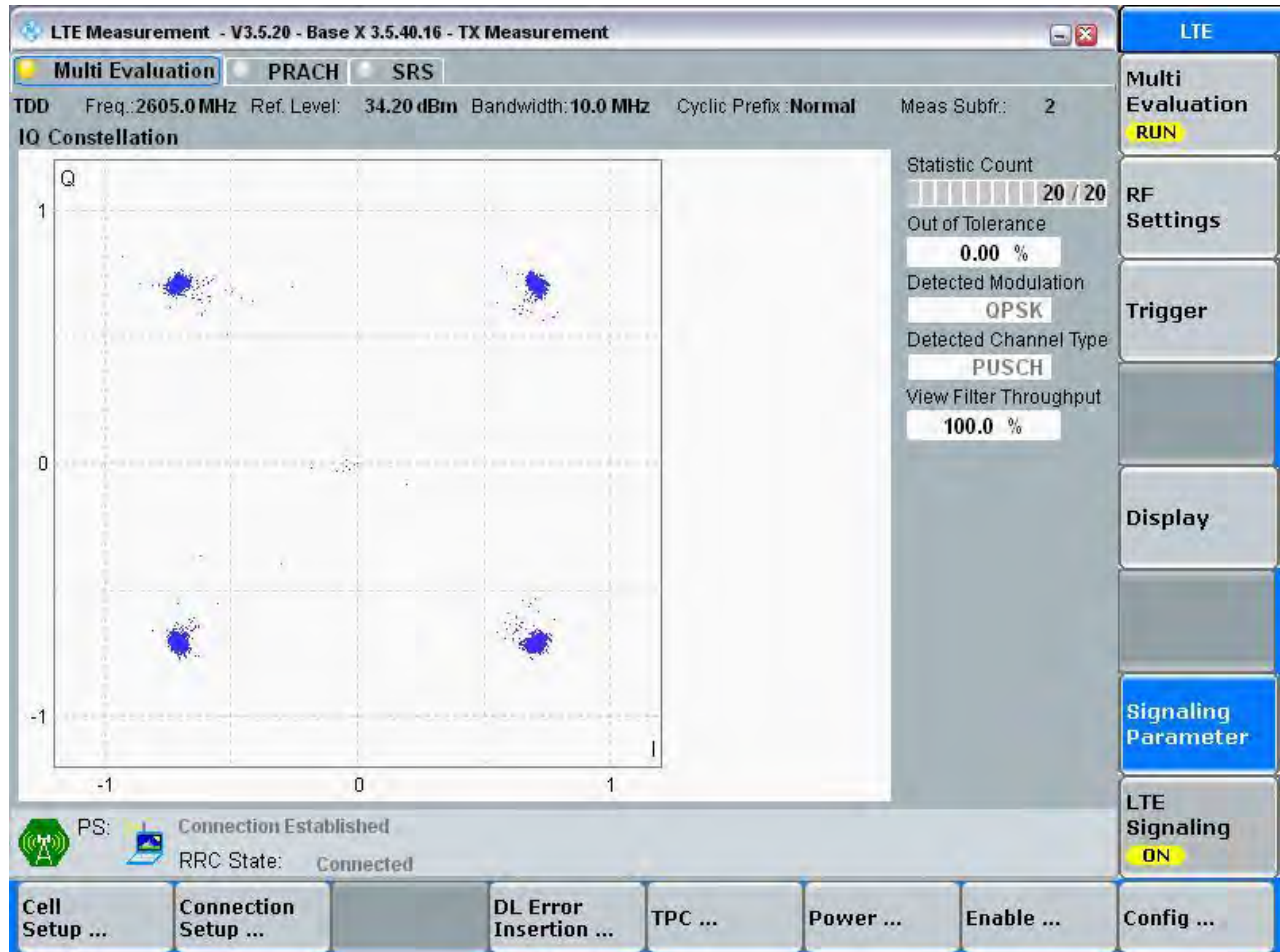
##### 3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

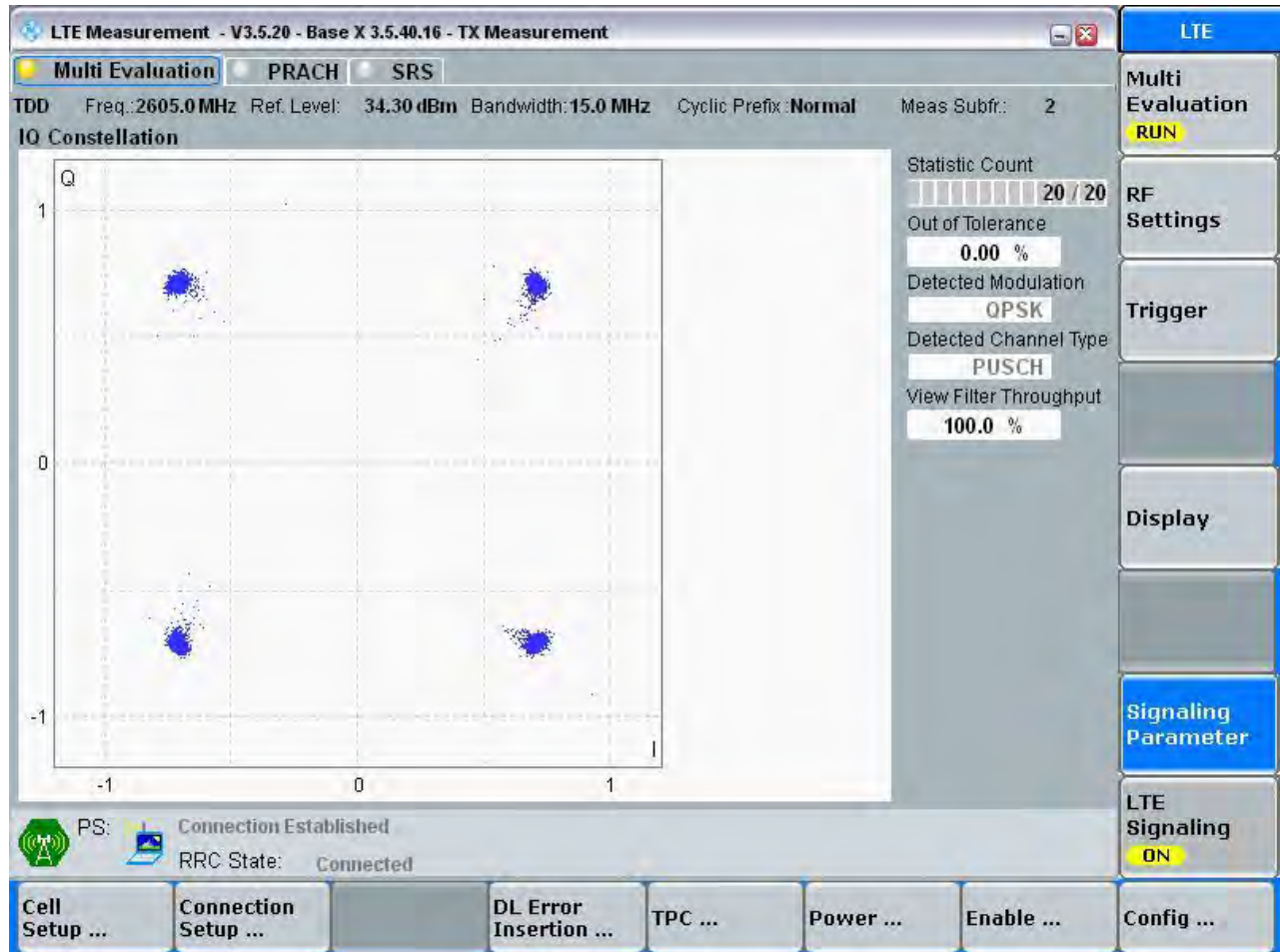
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 15MHz

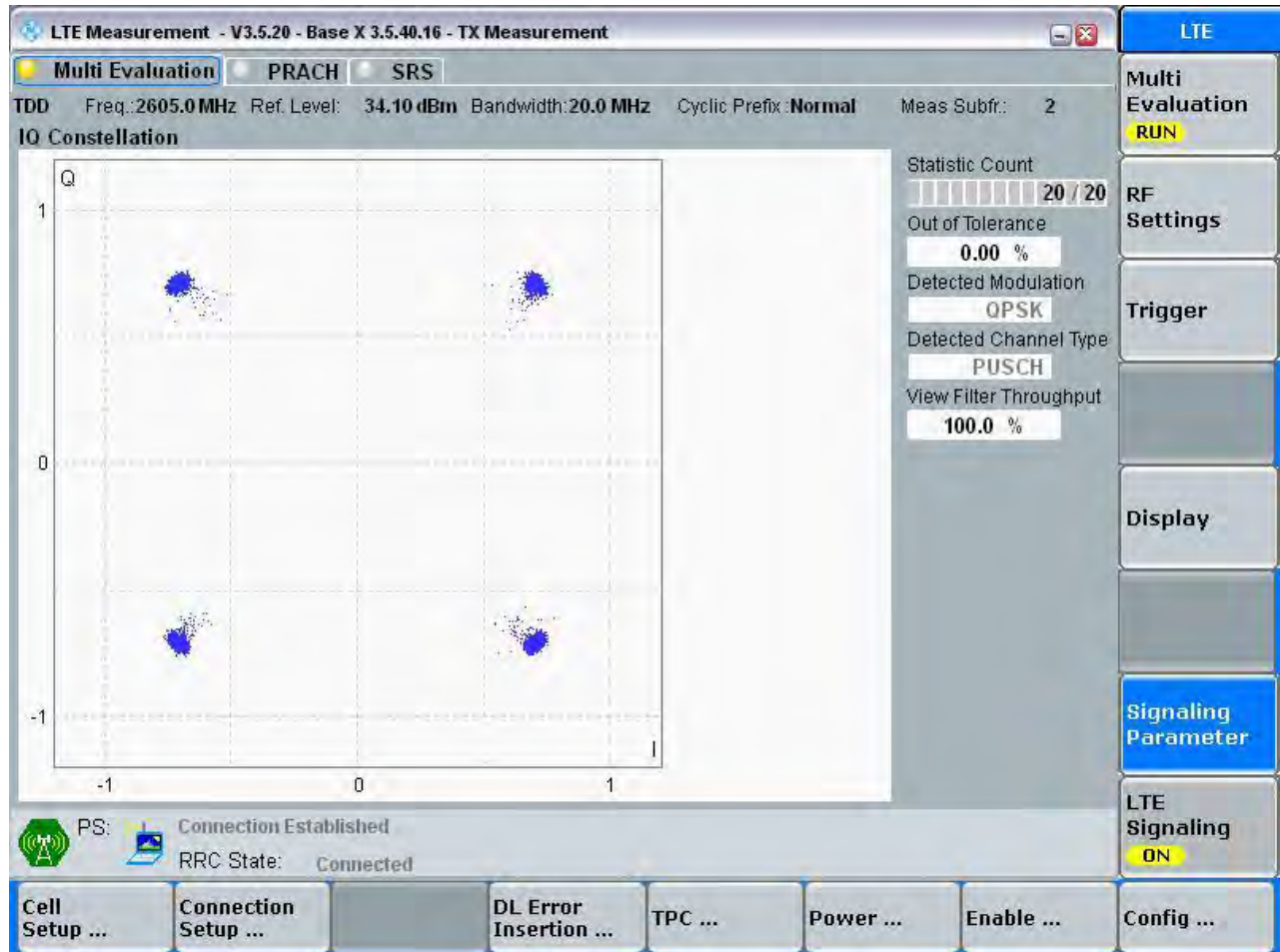
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 20MHz

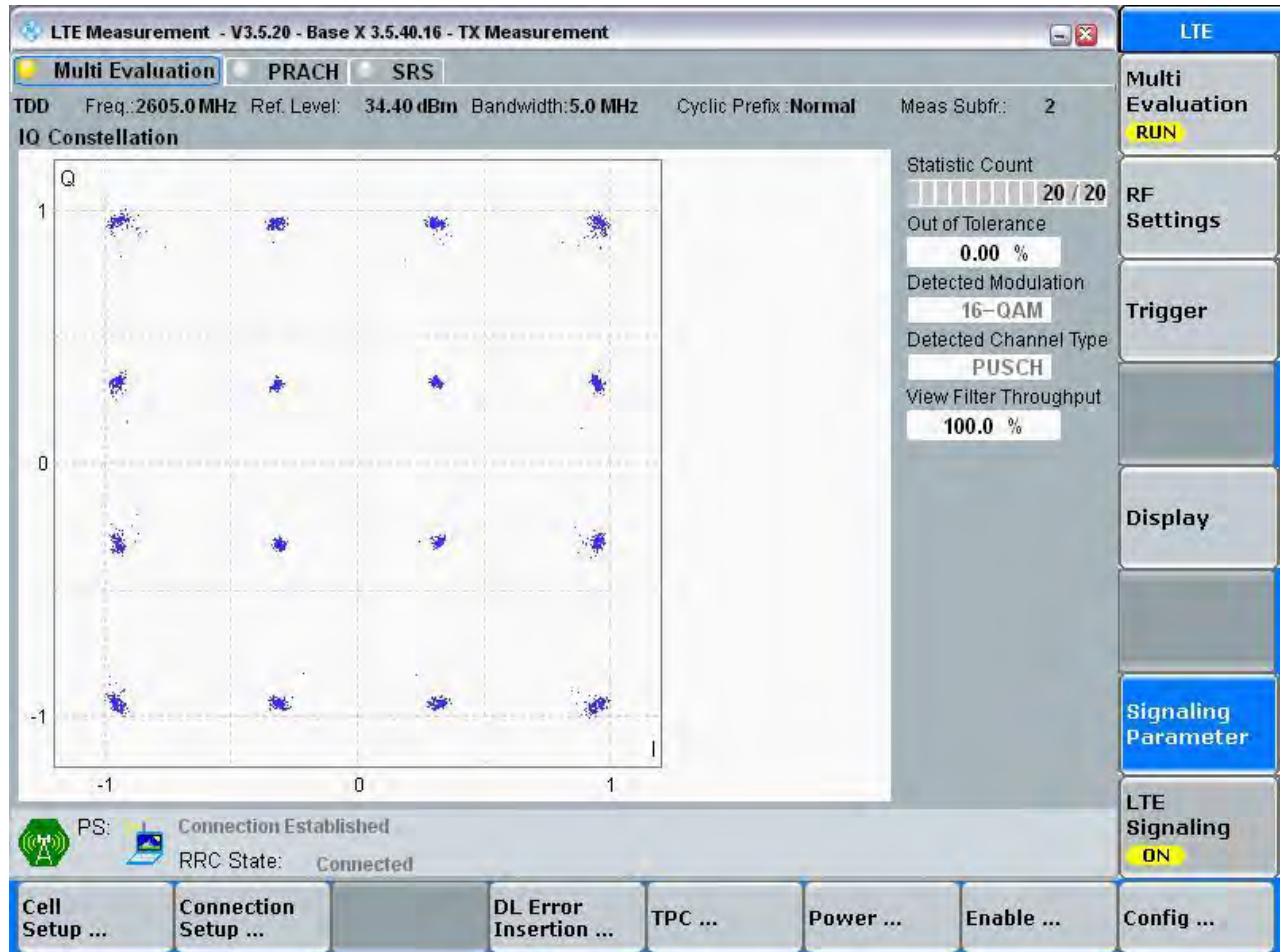
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 5MHz

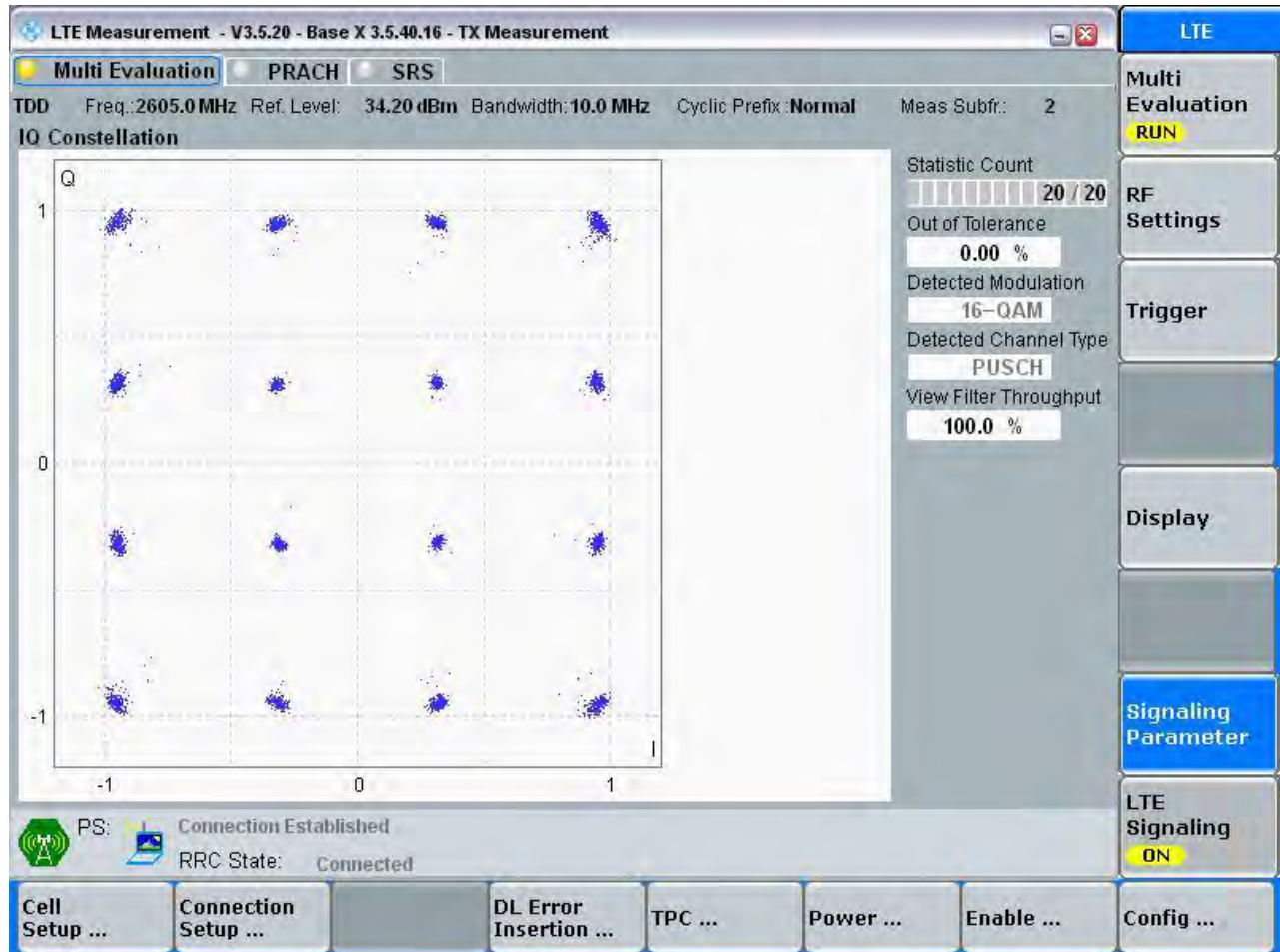
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM2 10MHz

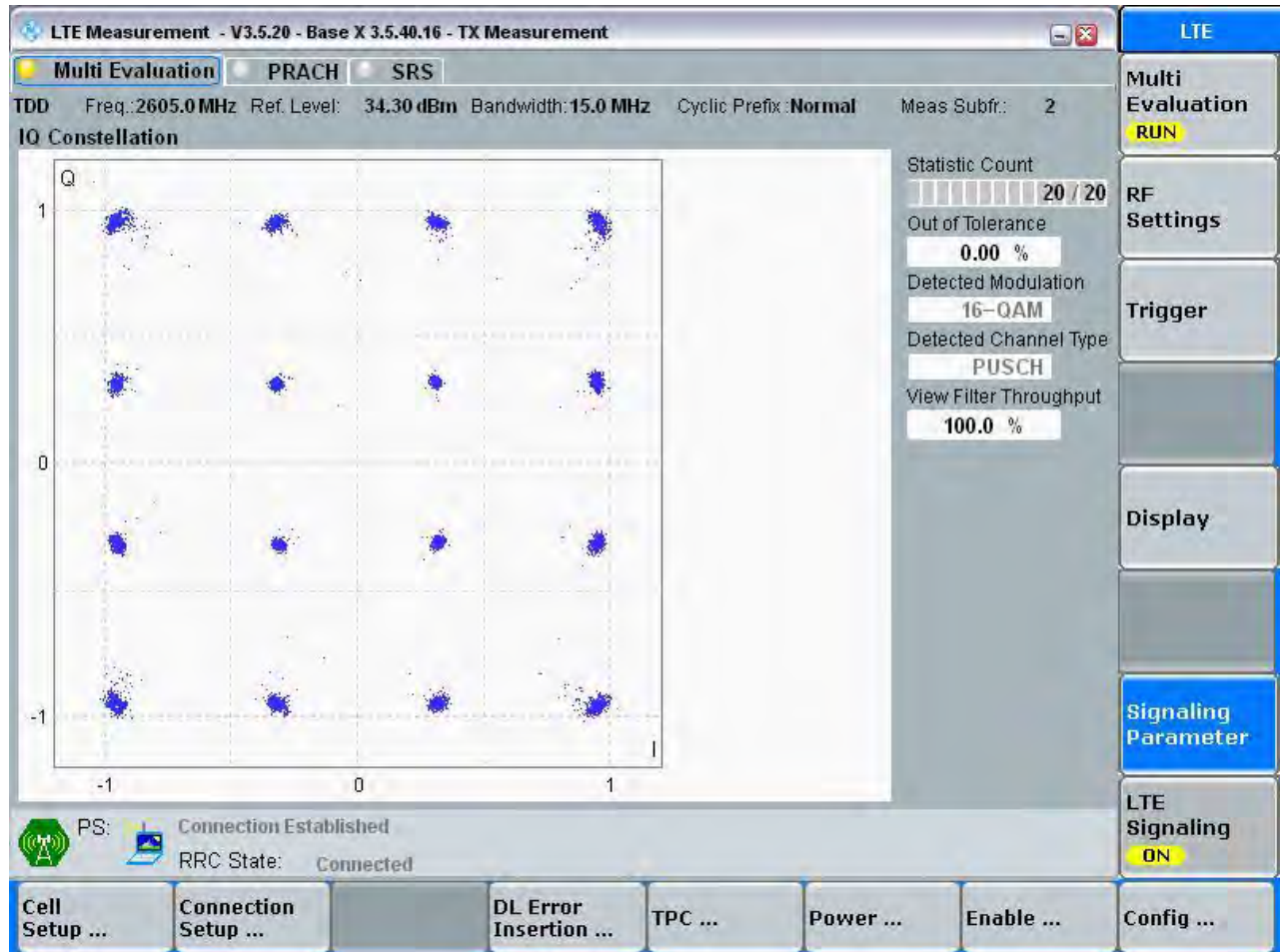
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 15MHz

3.1.1.7.1 Test Channel = MCH

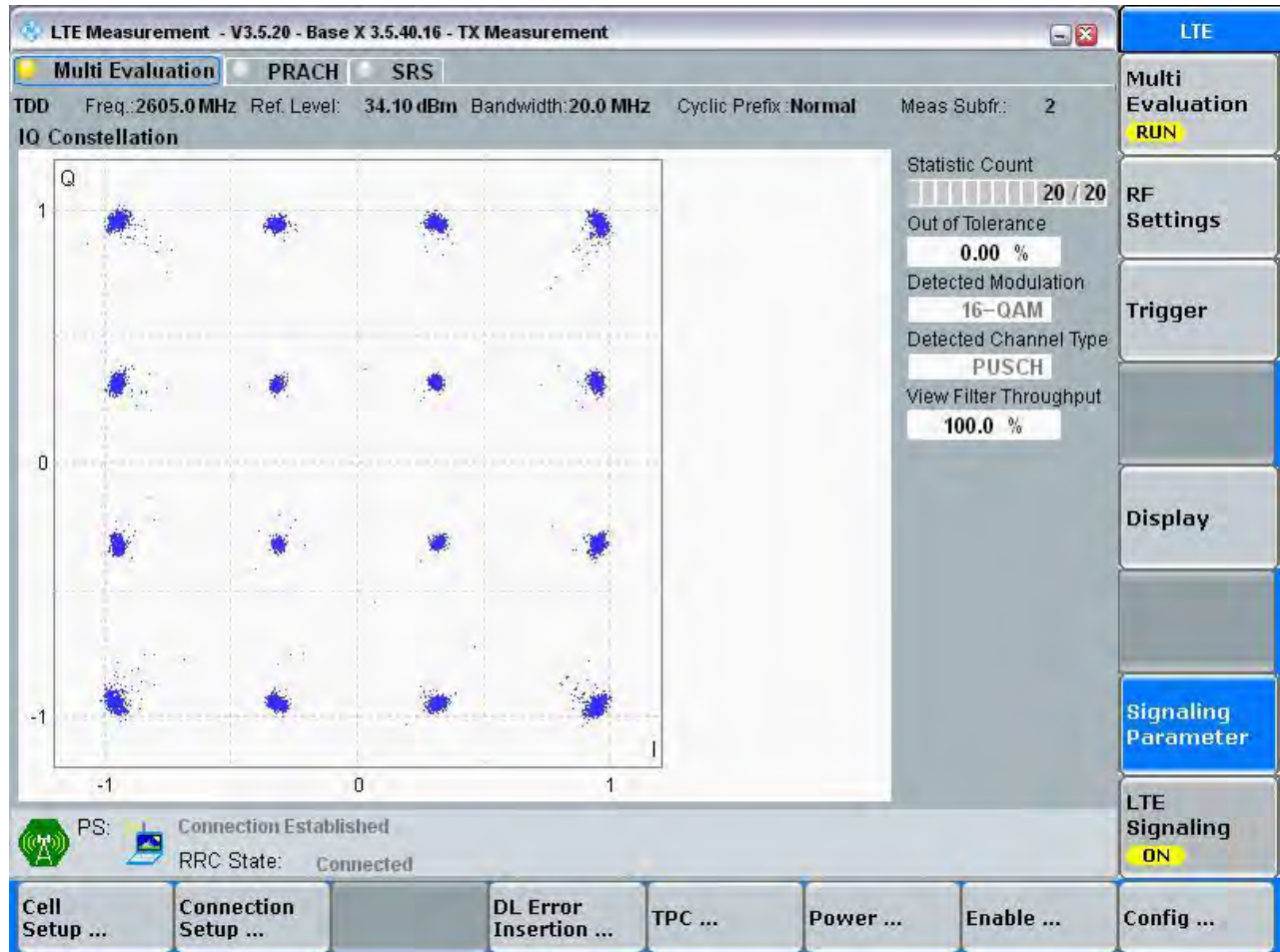






3.1.1.8 Test Mode = LTE /TM2 20MHz

3.1.1.8.1 Test Channel = MCH





## 4 Bandwidth

### Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 41	TM1/ 5MHz	LCH	4.49	4.88	PASS
		MCH	4.48	4.93	PASS
		HCH	4.47	4.91	PASS
	TM2/ 5MHz	LCH	4.47	4.90	PASS
		MCH	4.48	4.96	PASS
		HCH	4.48	4.94	PASS
	TM1/10MHz	LCH	8.93	9.79	PASS
		MCH	8.95	10.55	PASS
		HCH	8.95	9.81	PASS
	TM2/ 10MHz	LCH	8.91	9.56	PASS
		MCH	8.95	9.77	PASS
		HCH	8.91	9.65	PASS
	TM1/ 15MHz	LCH	13.49	15.35	PASS
		MCH	13.58	17.46	PASS
		HCH	13.49	16.66	PASS
	TM2/ 15MHz	LCH	13.58	20.05	PASS
		MCH	13.88	21.52	PASS
		HCH	13.58	16.45	PASS
	TM1/ 20MHz	LCH	17.86	19.70	PASS
		MCH	17.90	19.30	PASS
		HCH	17.90	20.02	PASS
	TM2/ 20MHz	LCH	17.90	20.90	PASS
		MCH	17.90	20.14	PASS
		HCH	17.86	19.82	PASS

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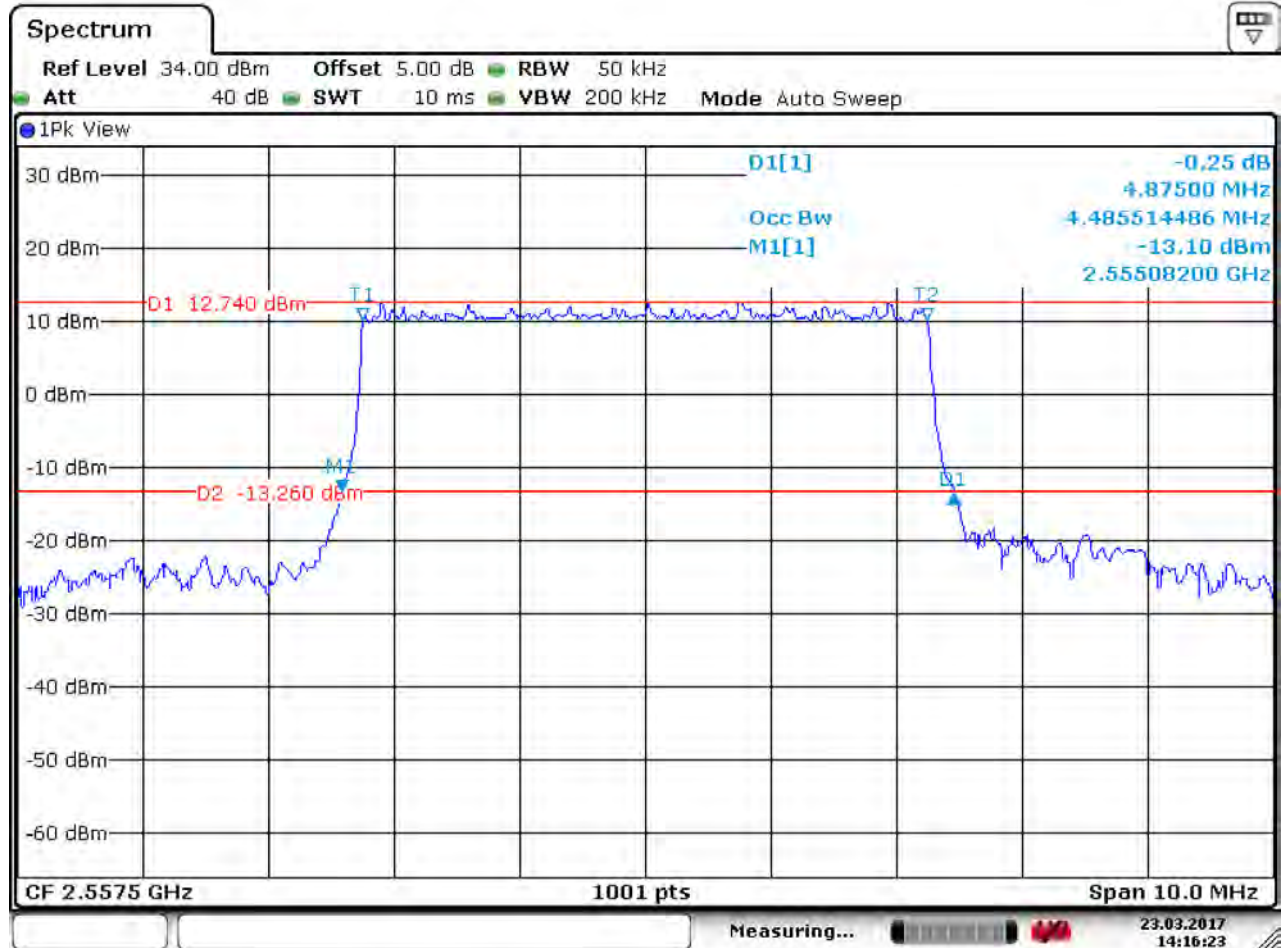


## 4.1 For LTE

### 4.1.1 Test Band = LTE band41

#### 4.1.1.1 Test Mode = LTE/TM1 5MHz

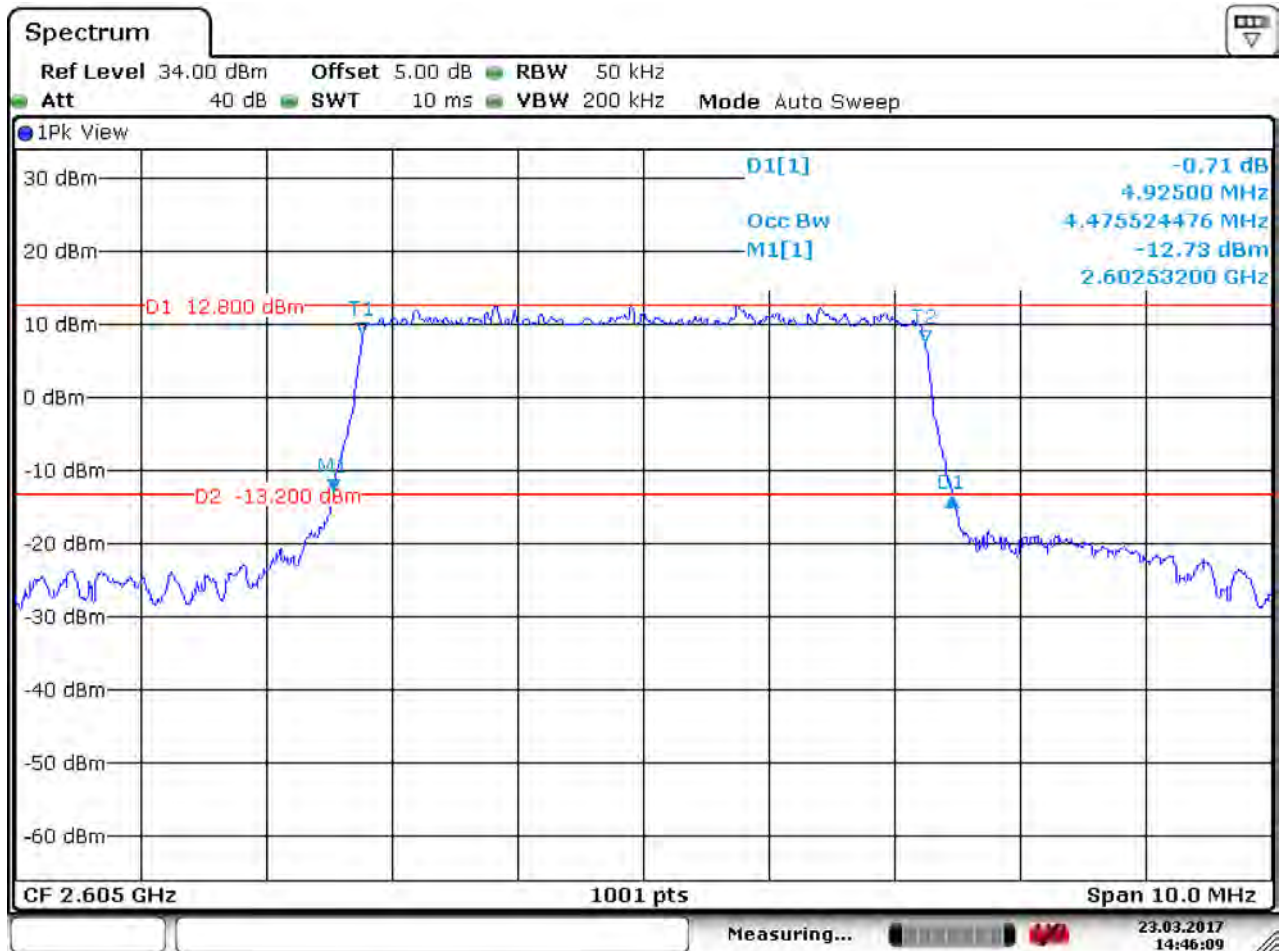
##### 4.1.1.1.1 Test Channel = LCH



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4.1.1.1.2 Test Channel = MCH

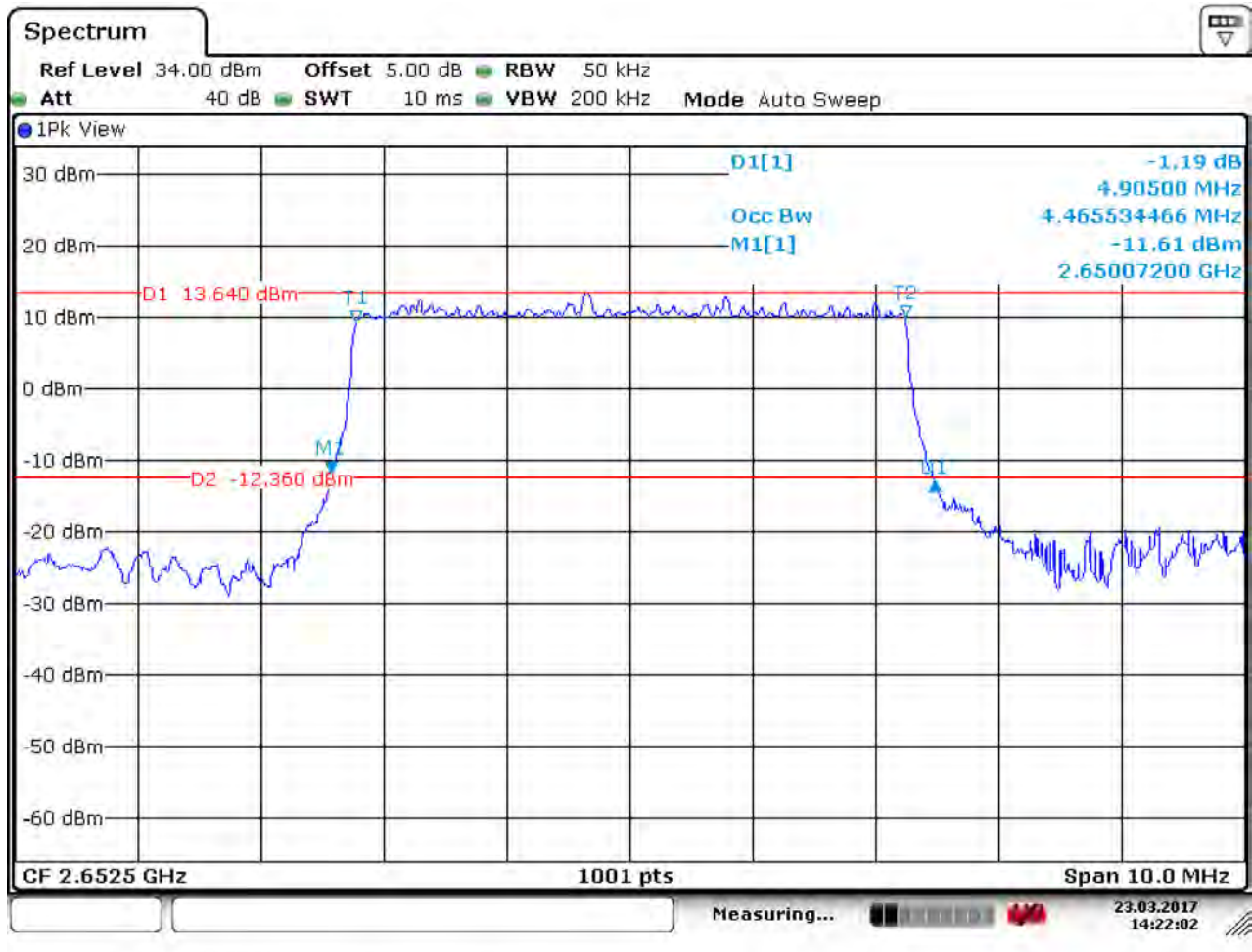


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4.1.1.1.3 Test Channel = HCH



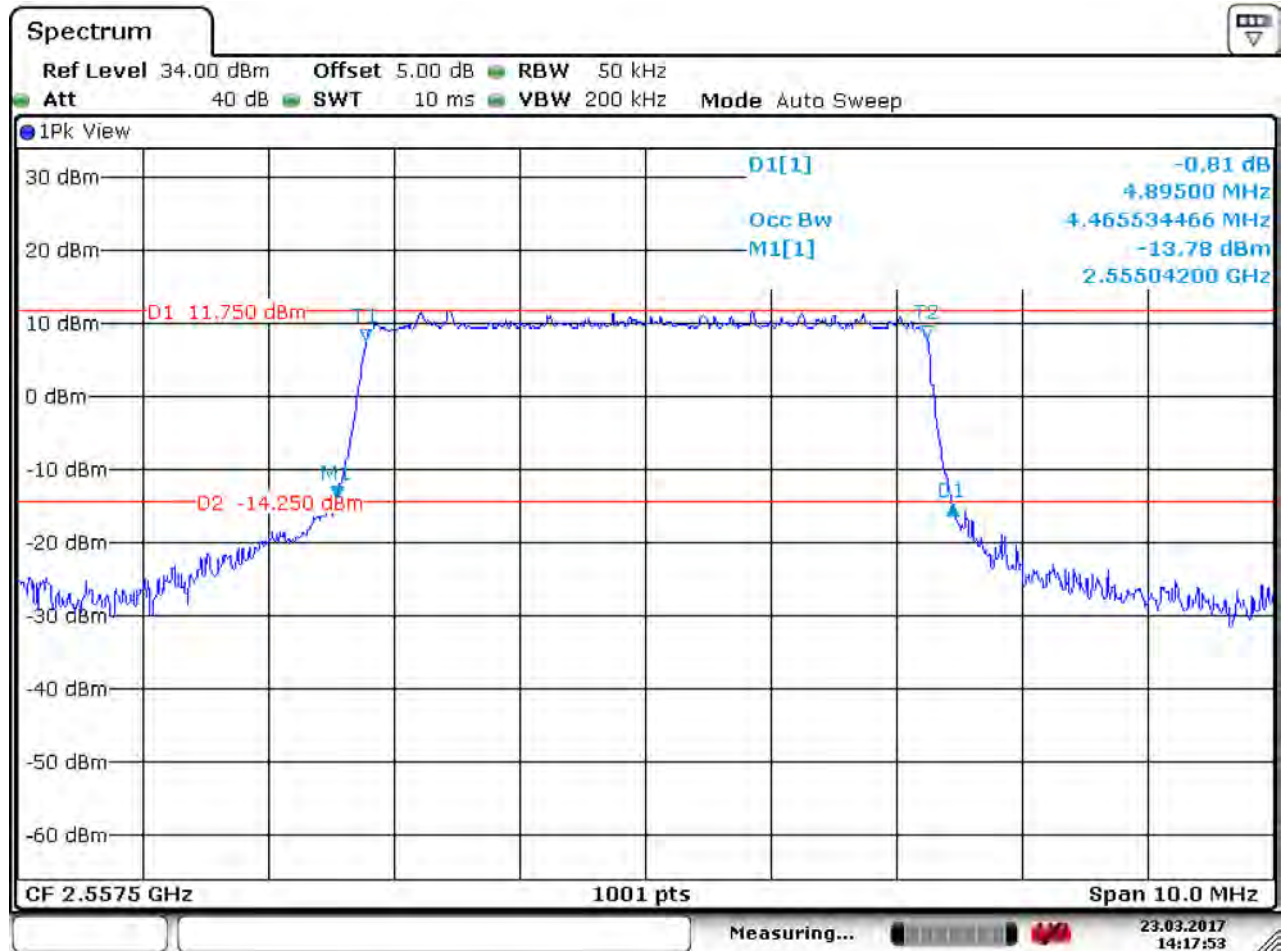
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4.1.1.2 Test Mode = LTE/TM2 5MHz

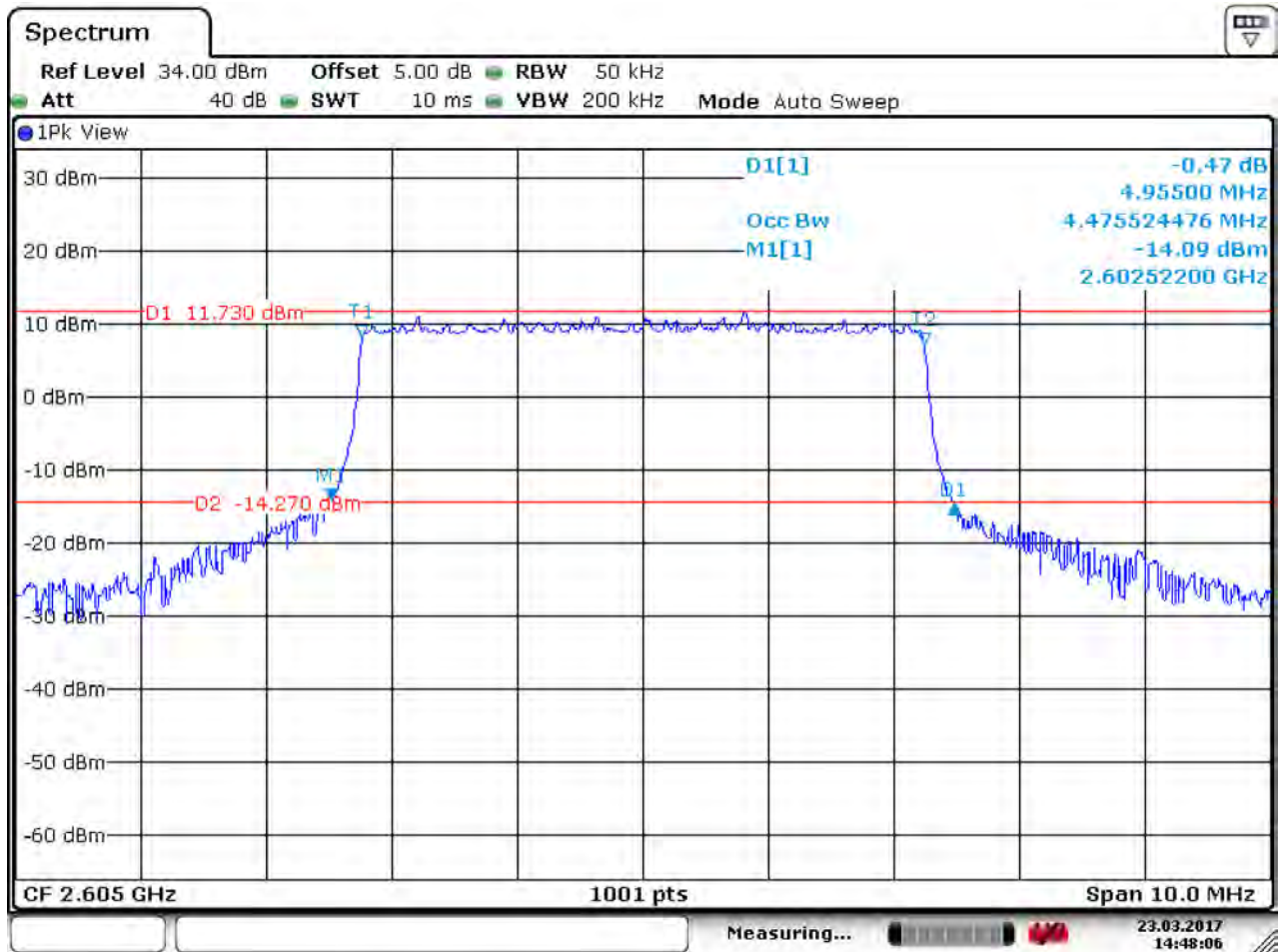
4.1.1.2.1 Test Channel = LCH



Date: 23.MAR.2017 14:17:53



4.1.1.2.2 Test Channel = MCH

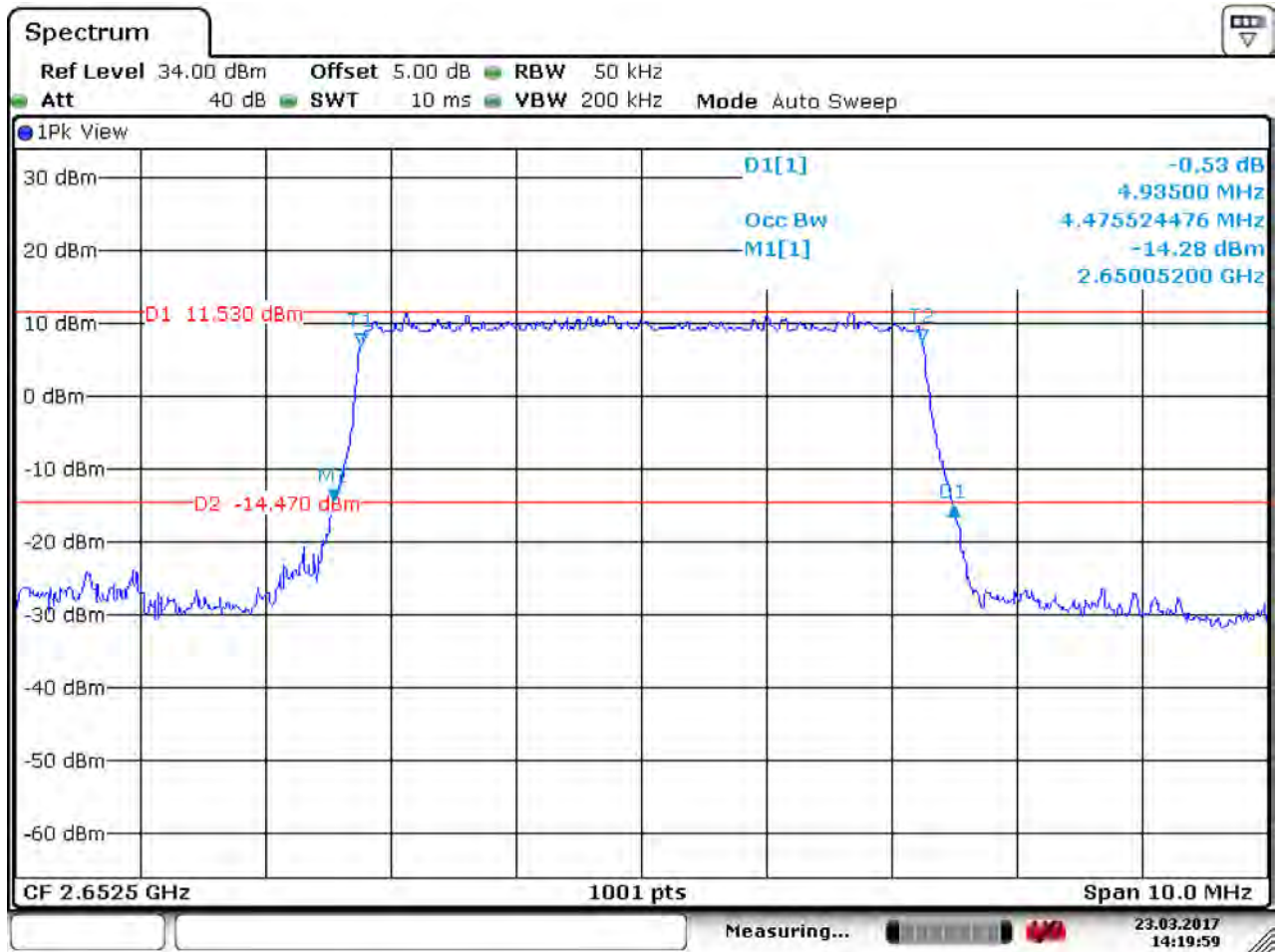


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4.1.1.2.3 Test Channel = HCH



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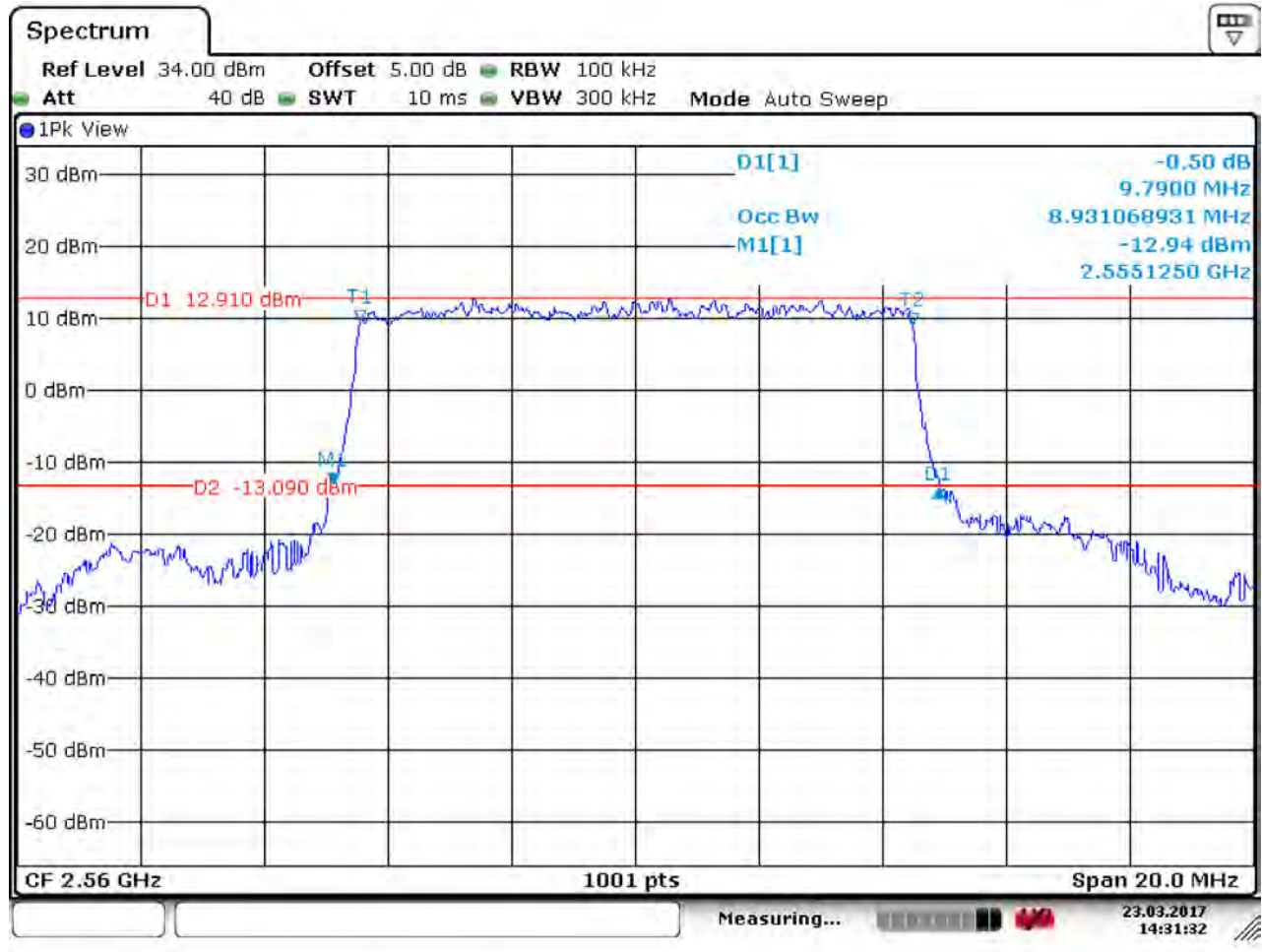
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4.1.1.3 Test Mode = LTE/TM1 10MHz

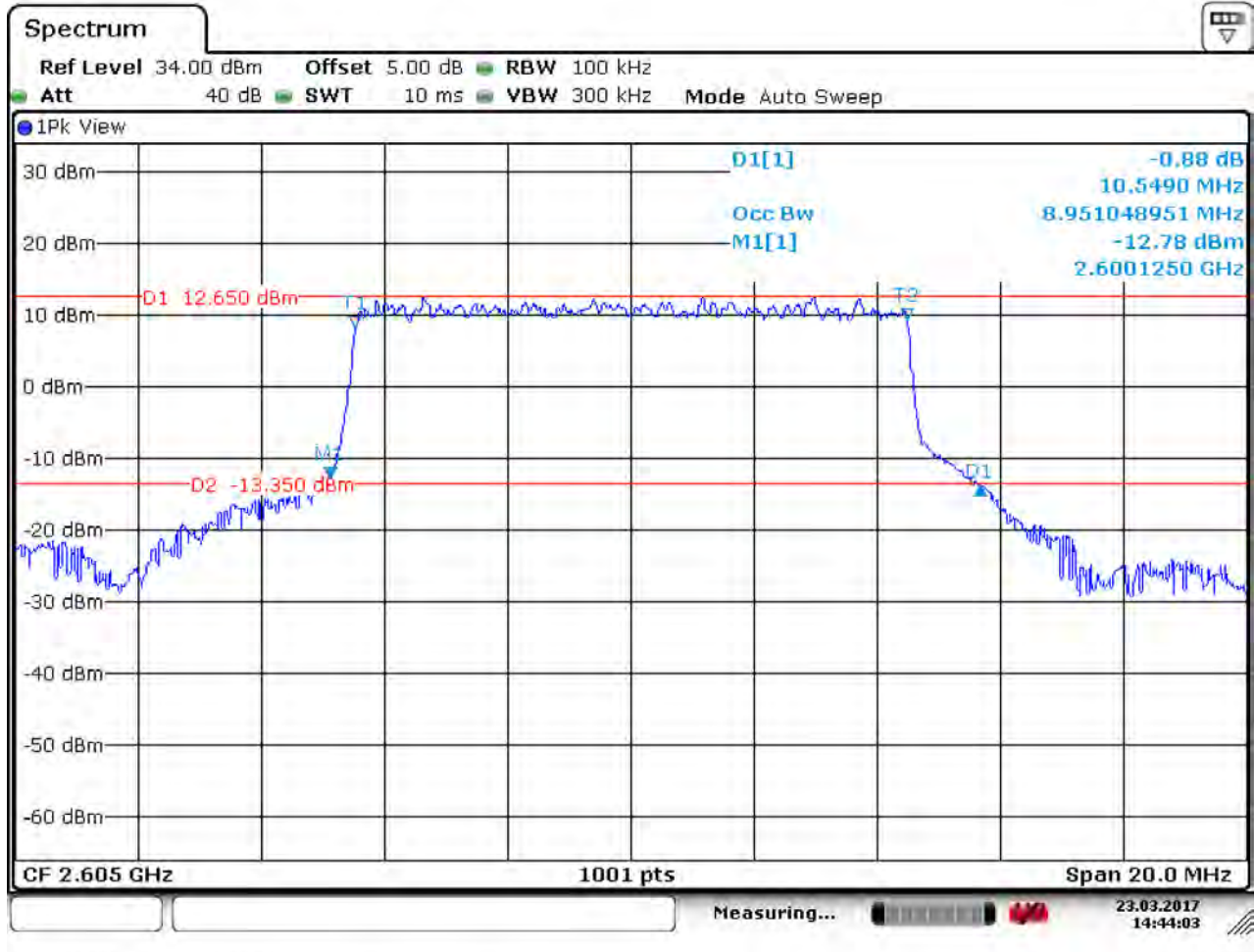
4.1.1.3.1 Test Channel = LCH



Date: 23.MAR.2017 14:31:32



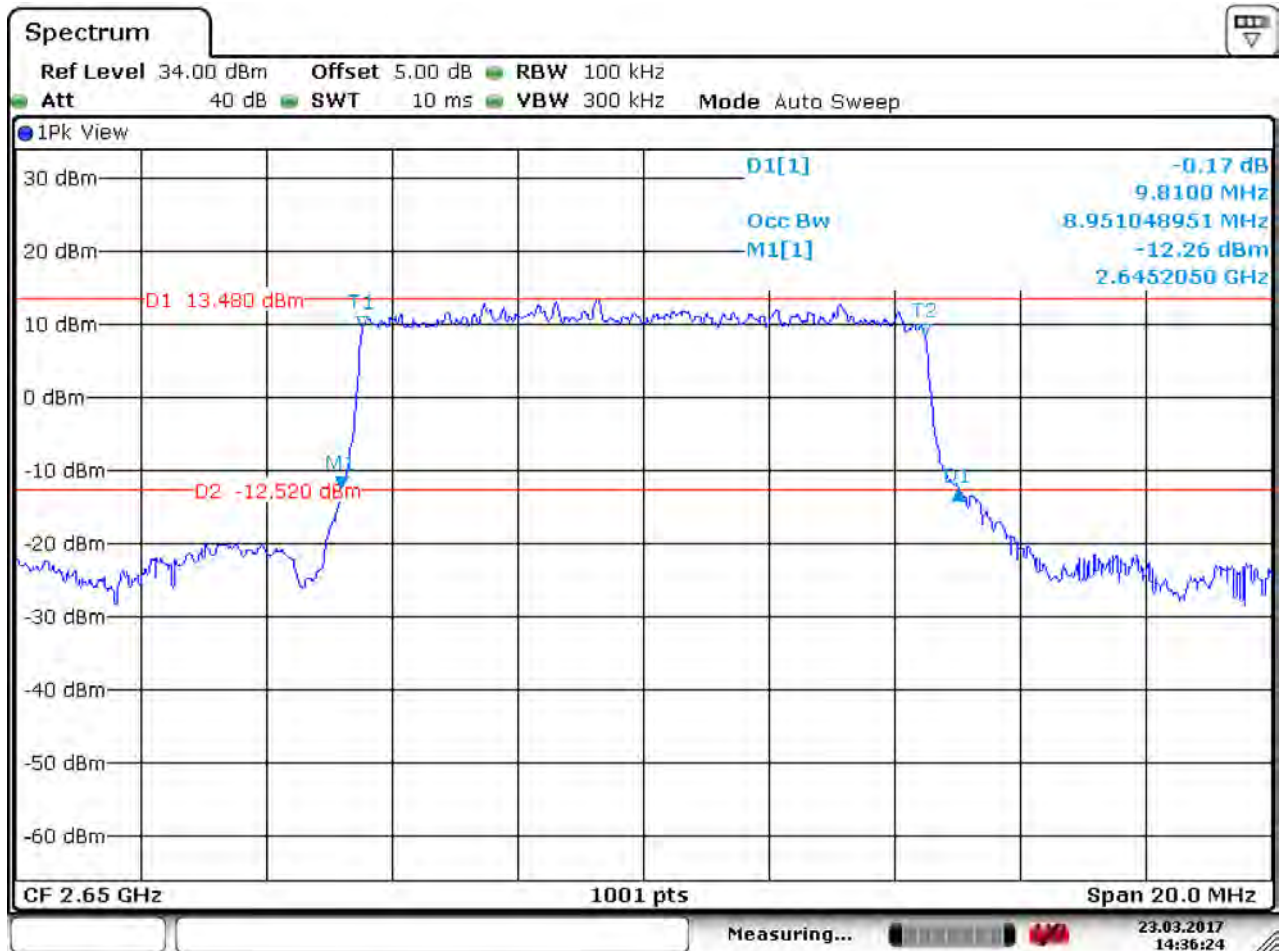
4.1.1.3.2 Test Channel = MCH



Date: 23.MAR.2017 14:44:04



4.1.1.3.3 Test Channel = HCH



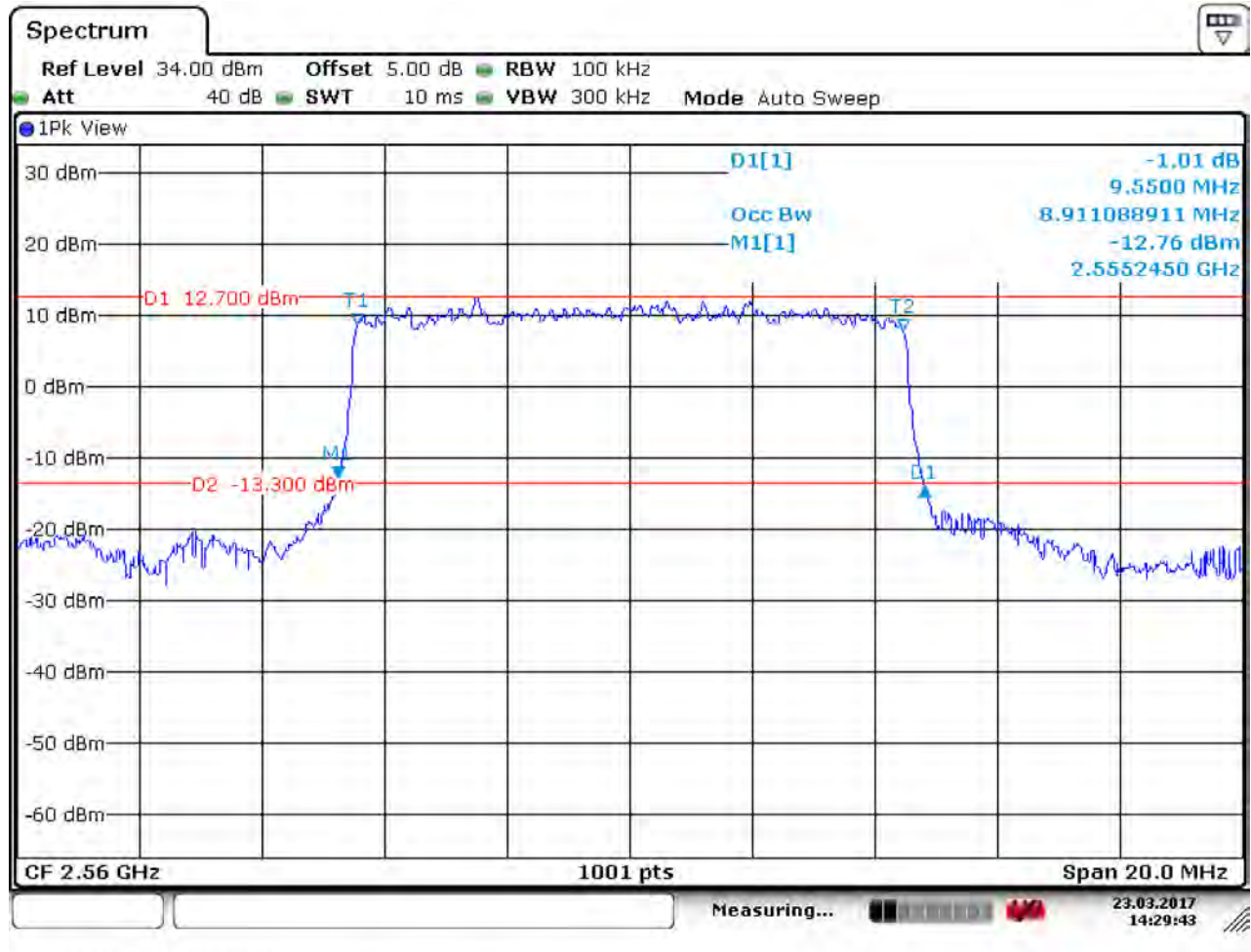
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4.1.1.4 Test Mode = LTE/TM2 10MHz

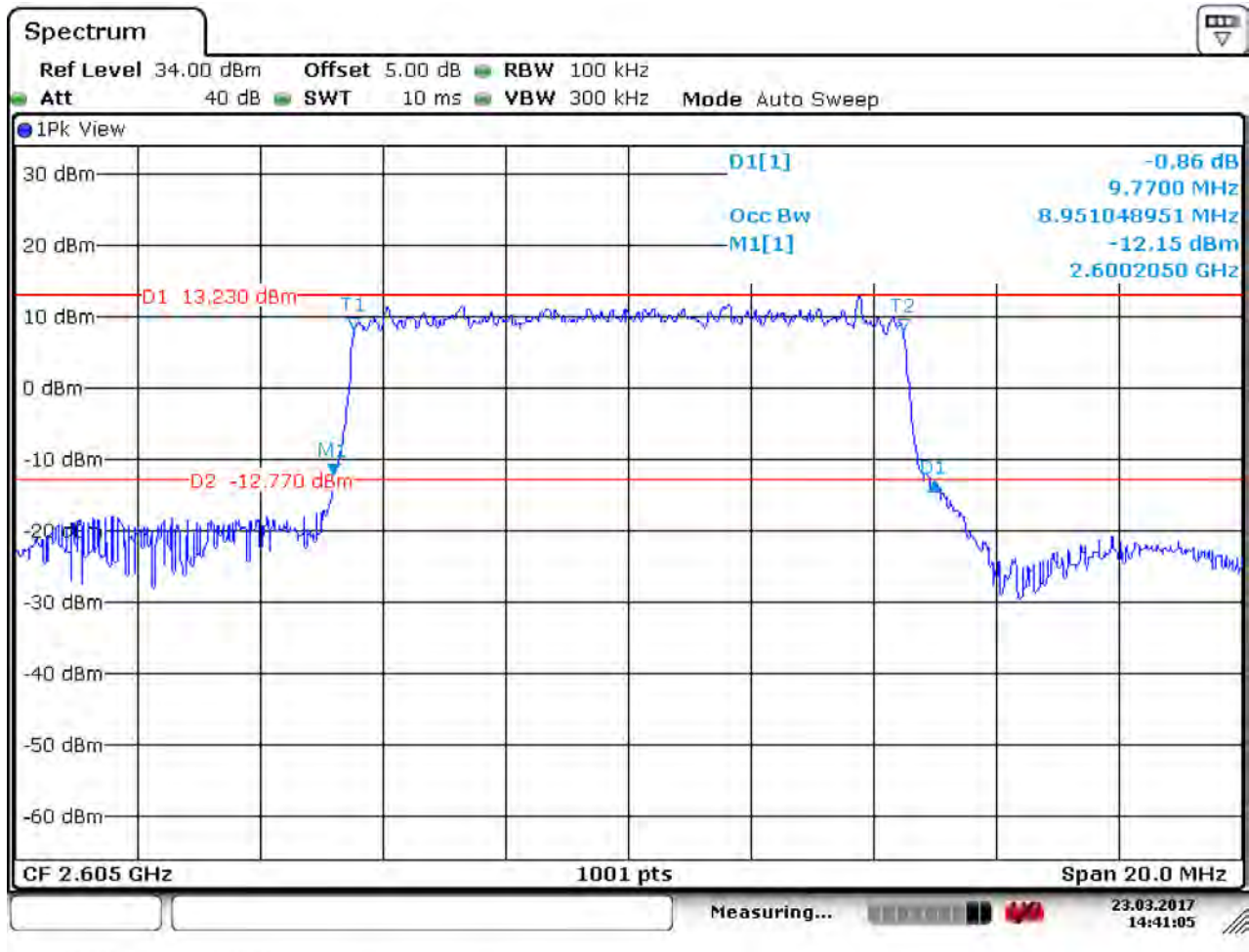
4.1.1.4.1 Test Channel = LCH



Date: 23.MAR.2017 14:29:43



4.1.1.4.2 Test Channel = MCH



Date: 23.MAR.2017 14:41:06

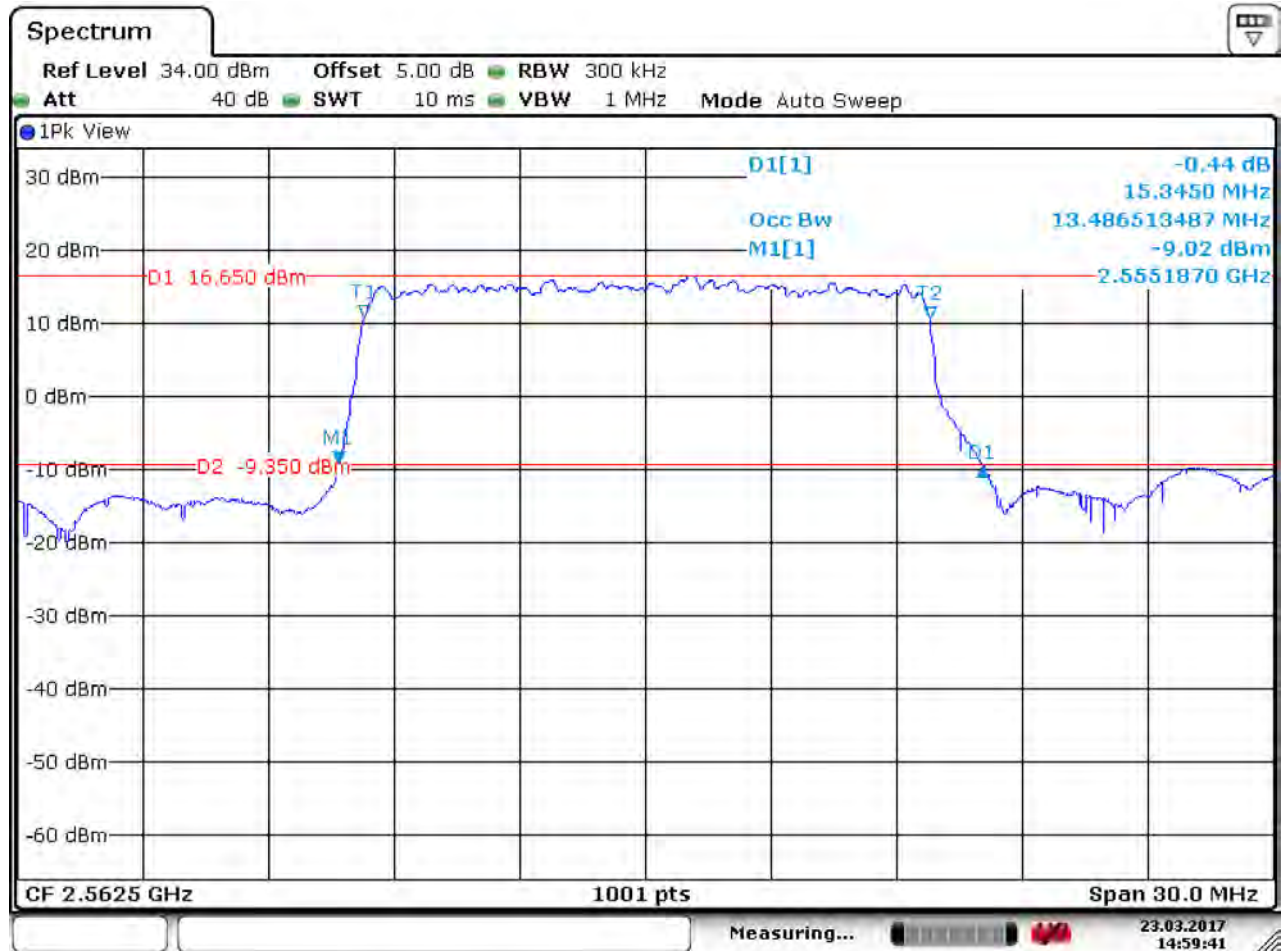
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4.1.1.5 Test Mode = LTE/TM1 15MHz

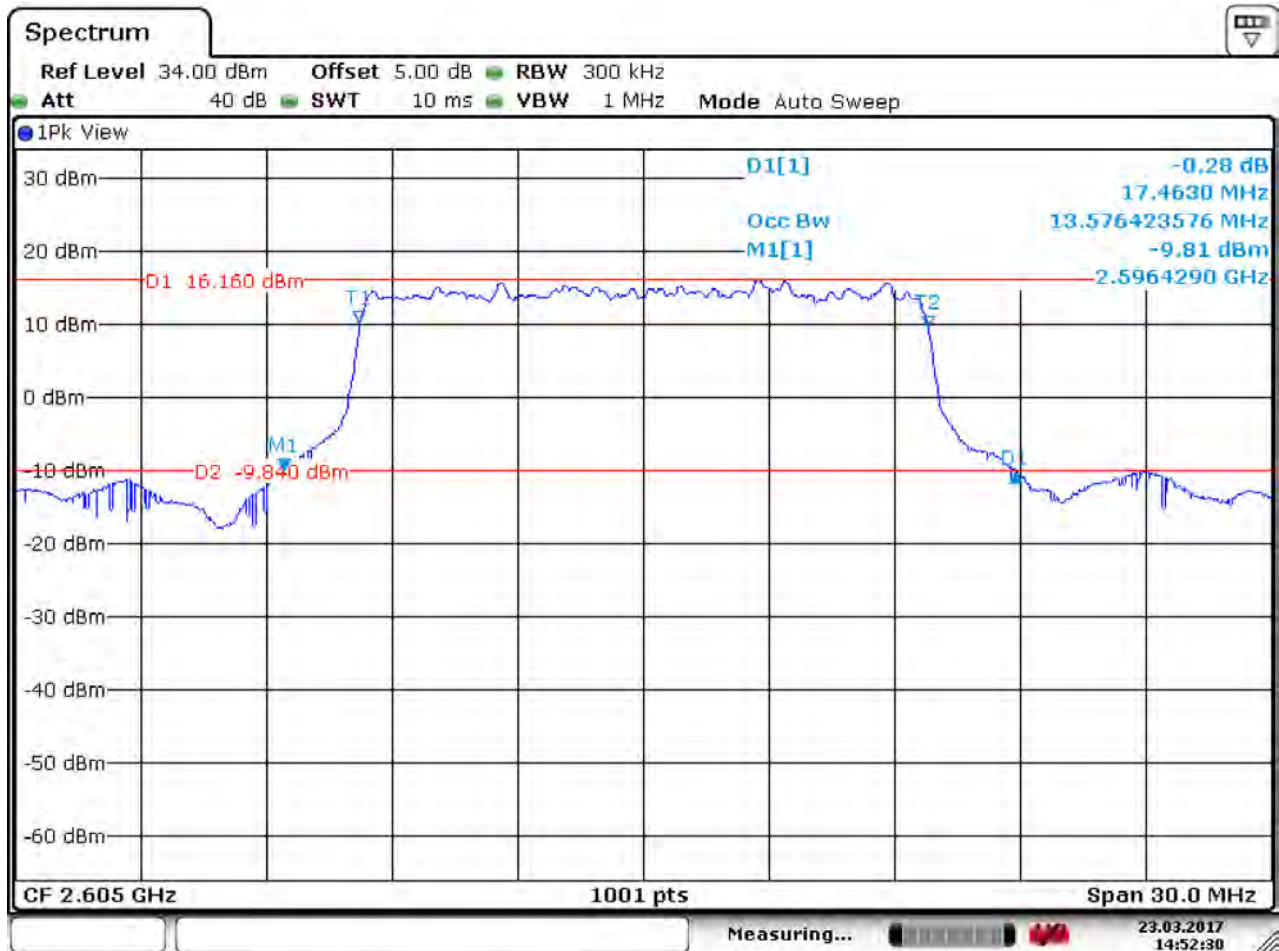
4.1.1.5.1 Test Channel = LCH



Date: 23.MAR.2017 14:59:41



4.1.1.5.2 Test Channel = MCH

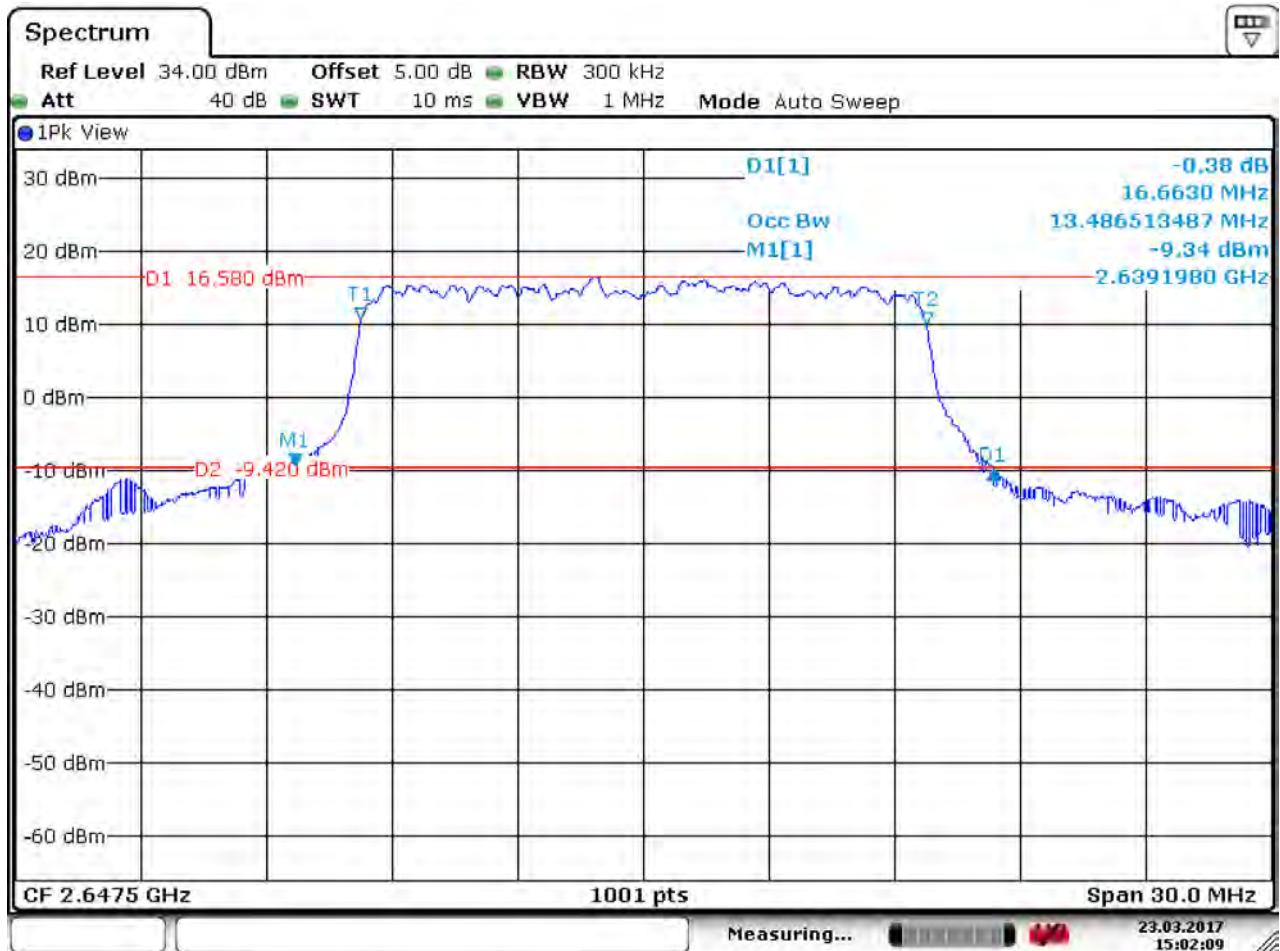


Date: 23.MAR.2017 14:52:30





4.1.1.5.3 Test Channel = HCH

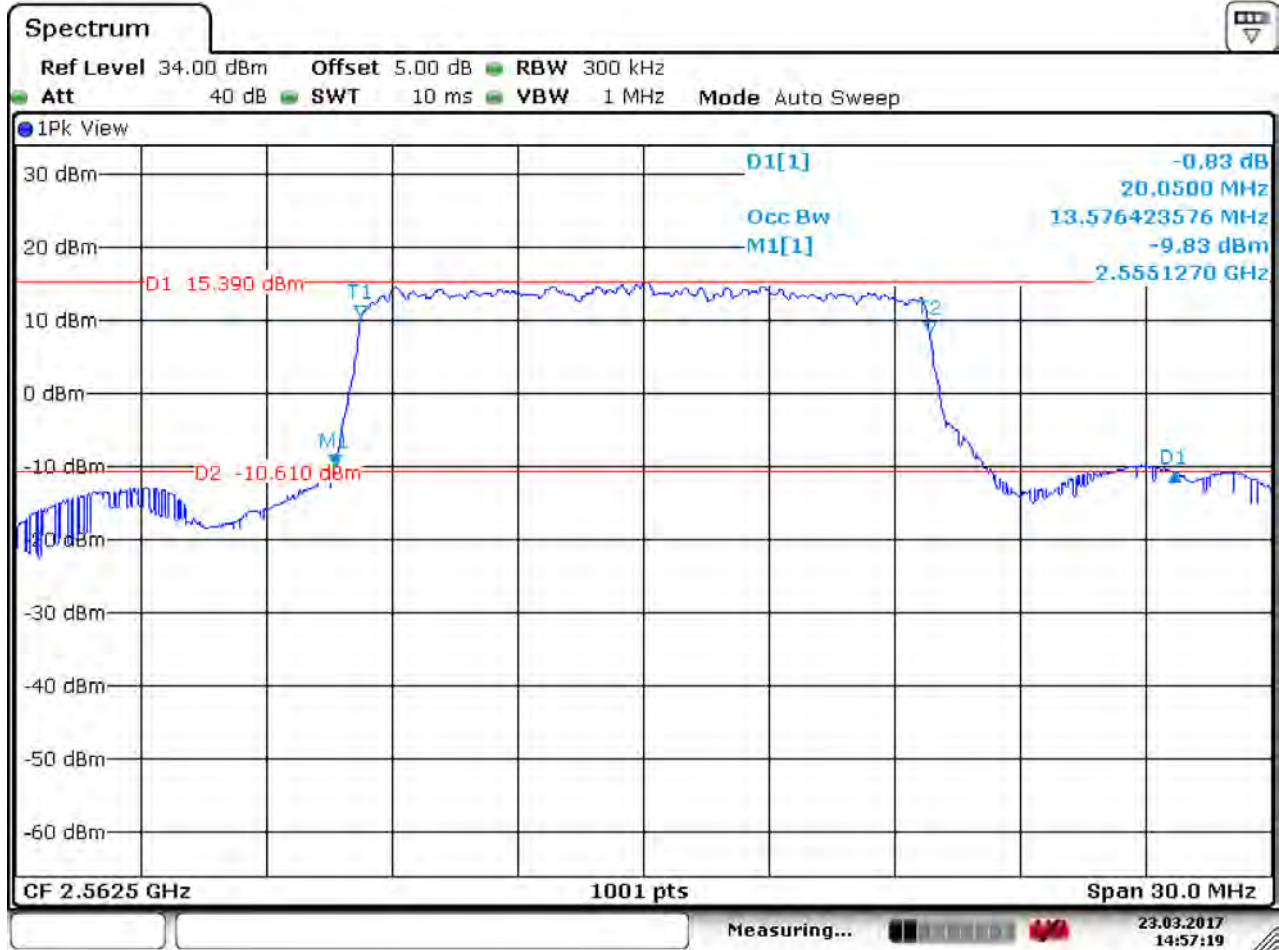


Date: 23.MAR.2017 15:02:10



4.1.1.6 Test Mode = LTE/TM2 15MHz

4.1.1.6.1 Test Channel = LCH

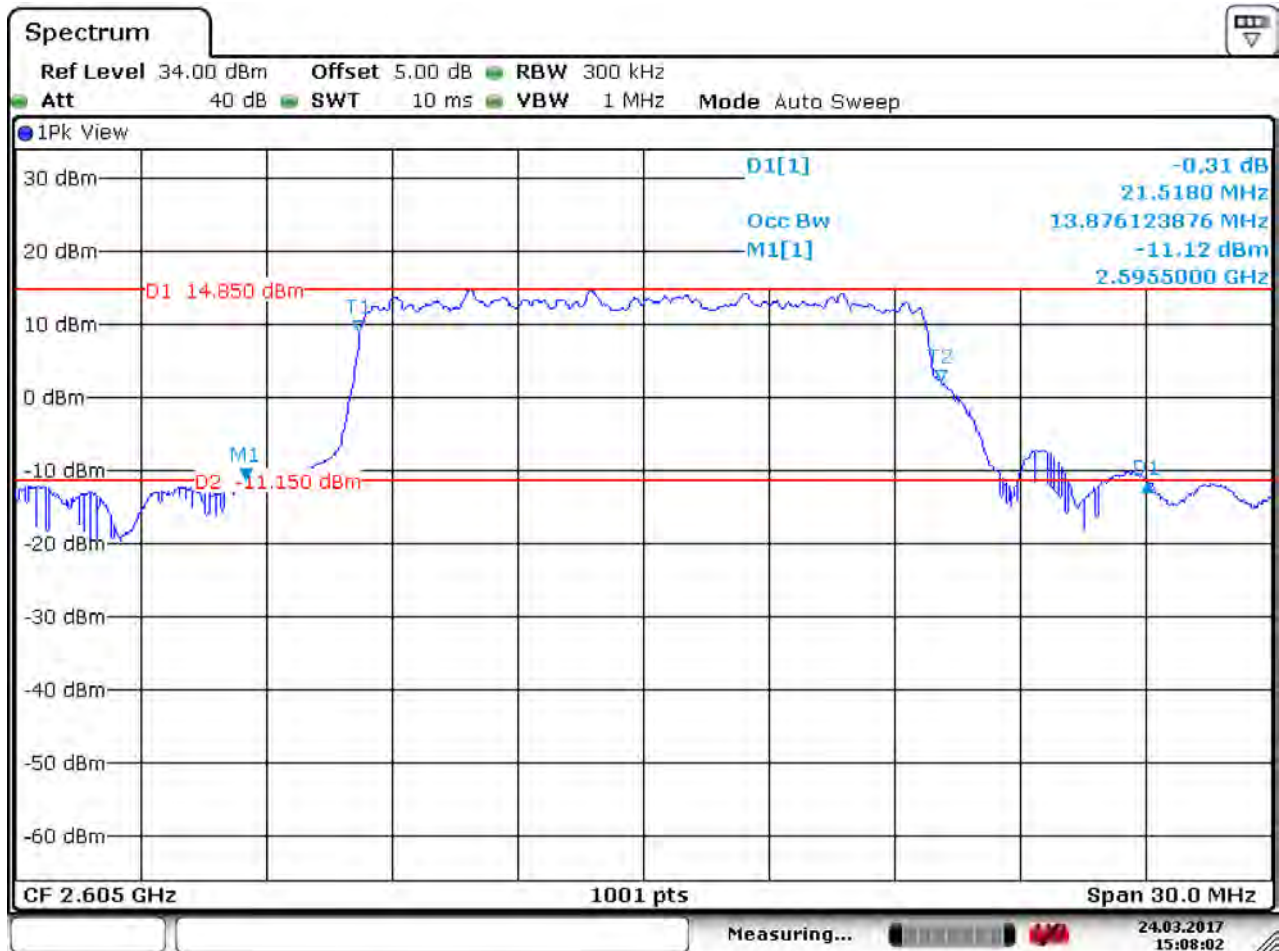


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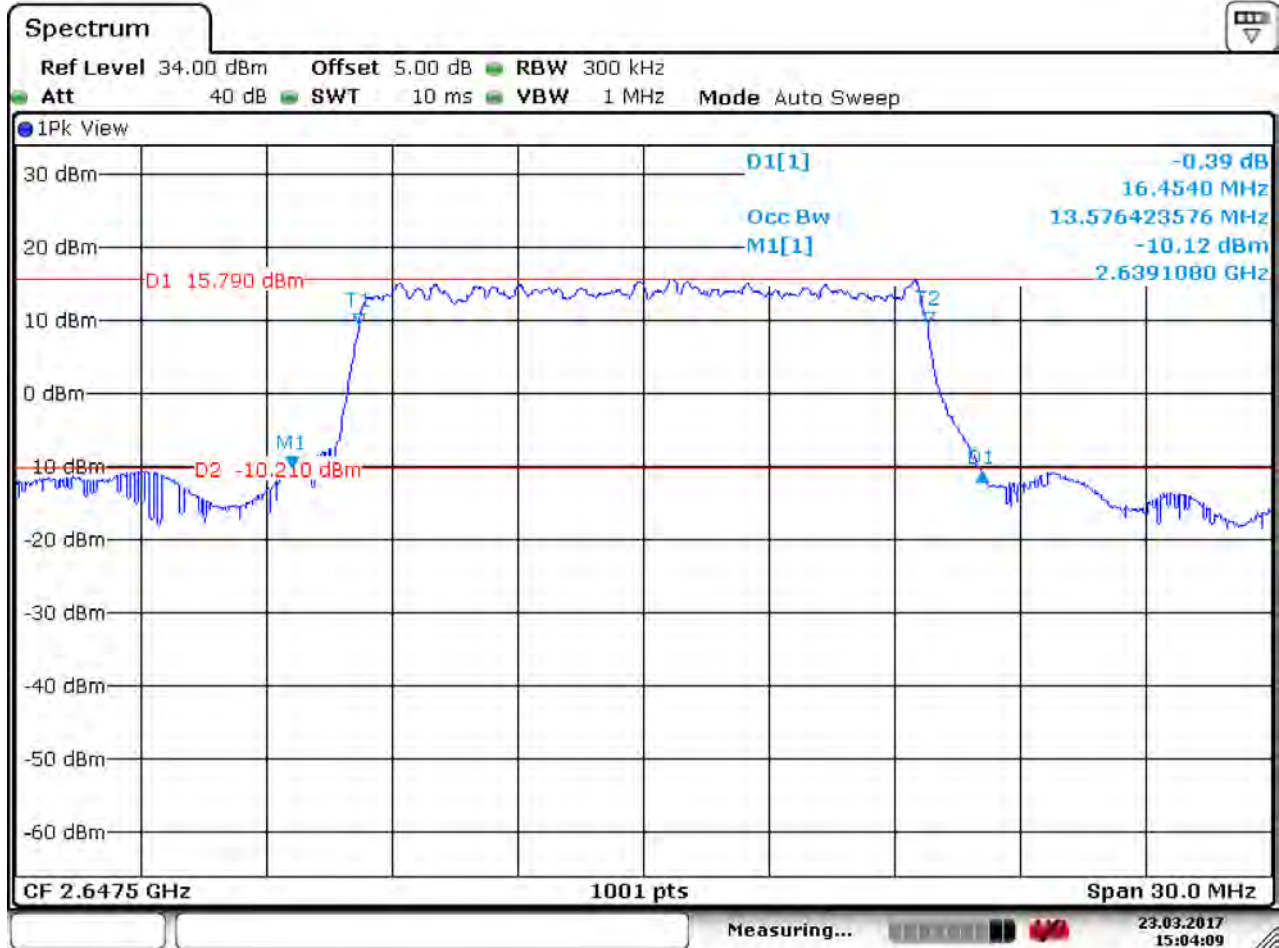
4.1.1.6.2 Test Channel = MCH



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4.1.1.6.3 Test Channel = HCH

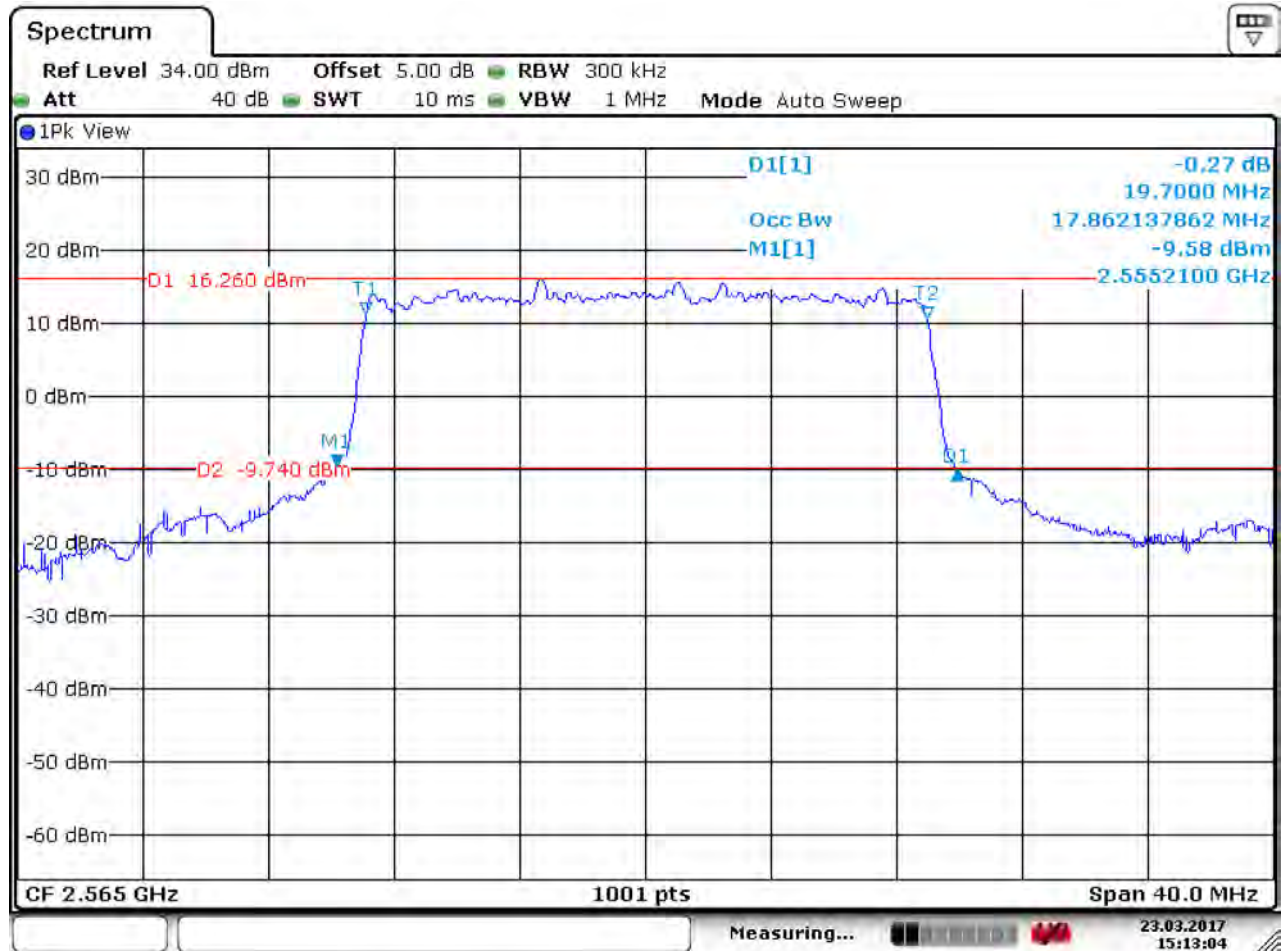


Date: 23.MAR.2017 15:04:10



4.1.1.7 Test Mode = LTE/TM1 20MHz

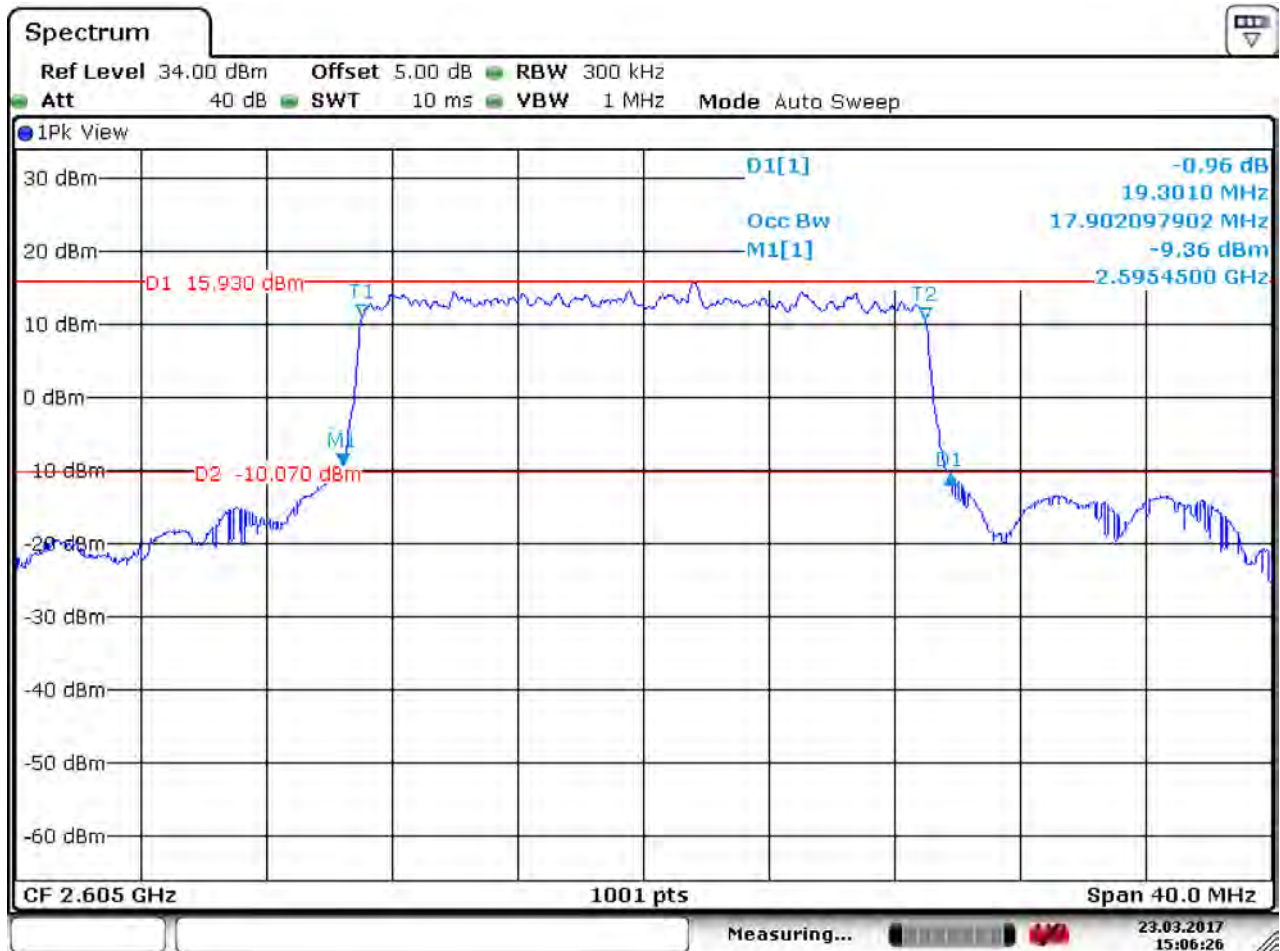
4.1.1.7.1 Test Channel = LCH



Date: 23.MAR.2017 15:13:04



4.1.1.7.2 Test Channel = MCH

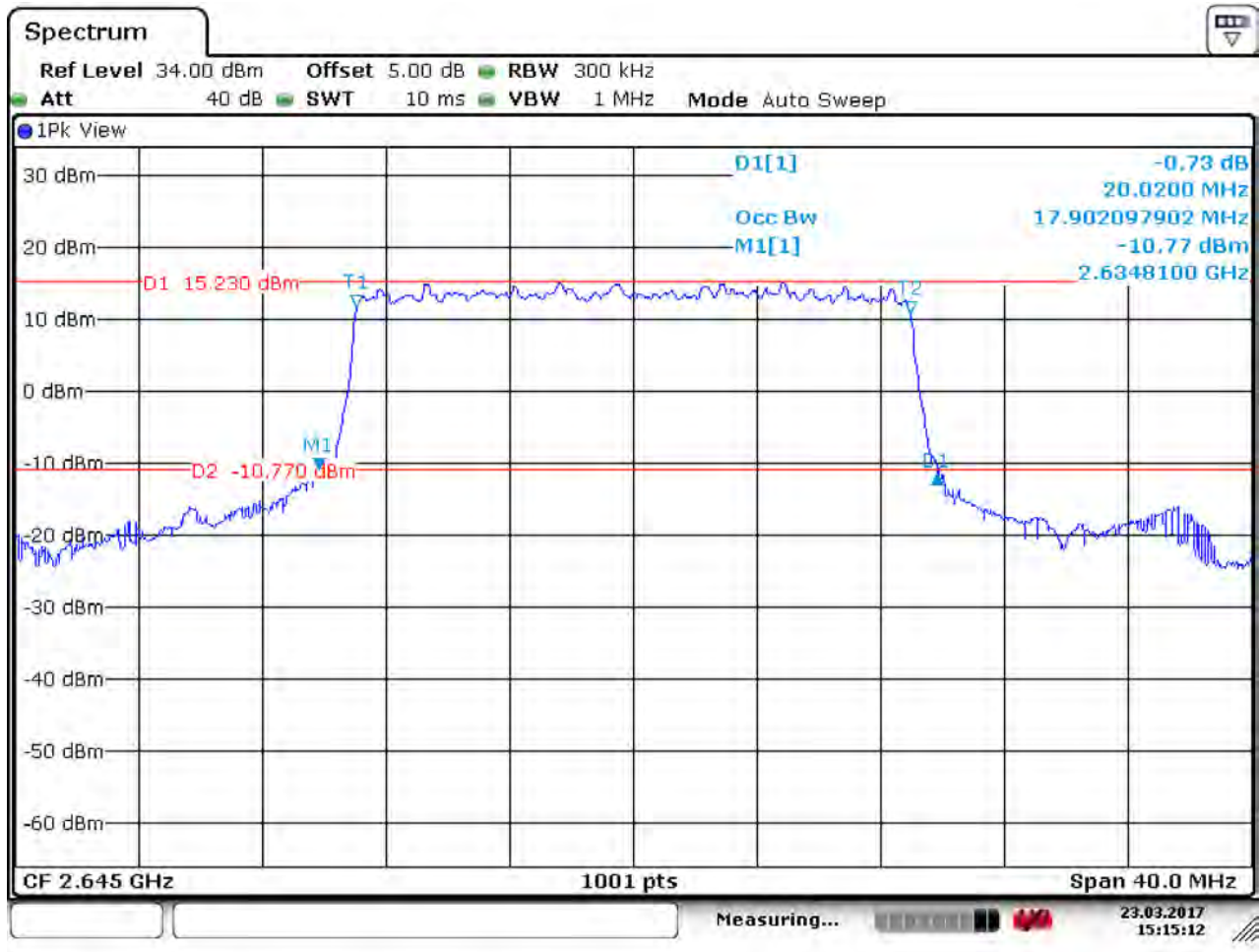


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4.1.1.7.3 Test Channel = HCH



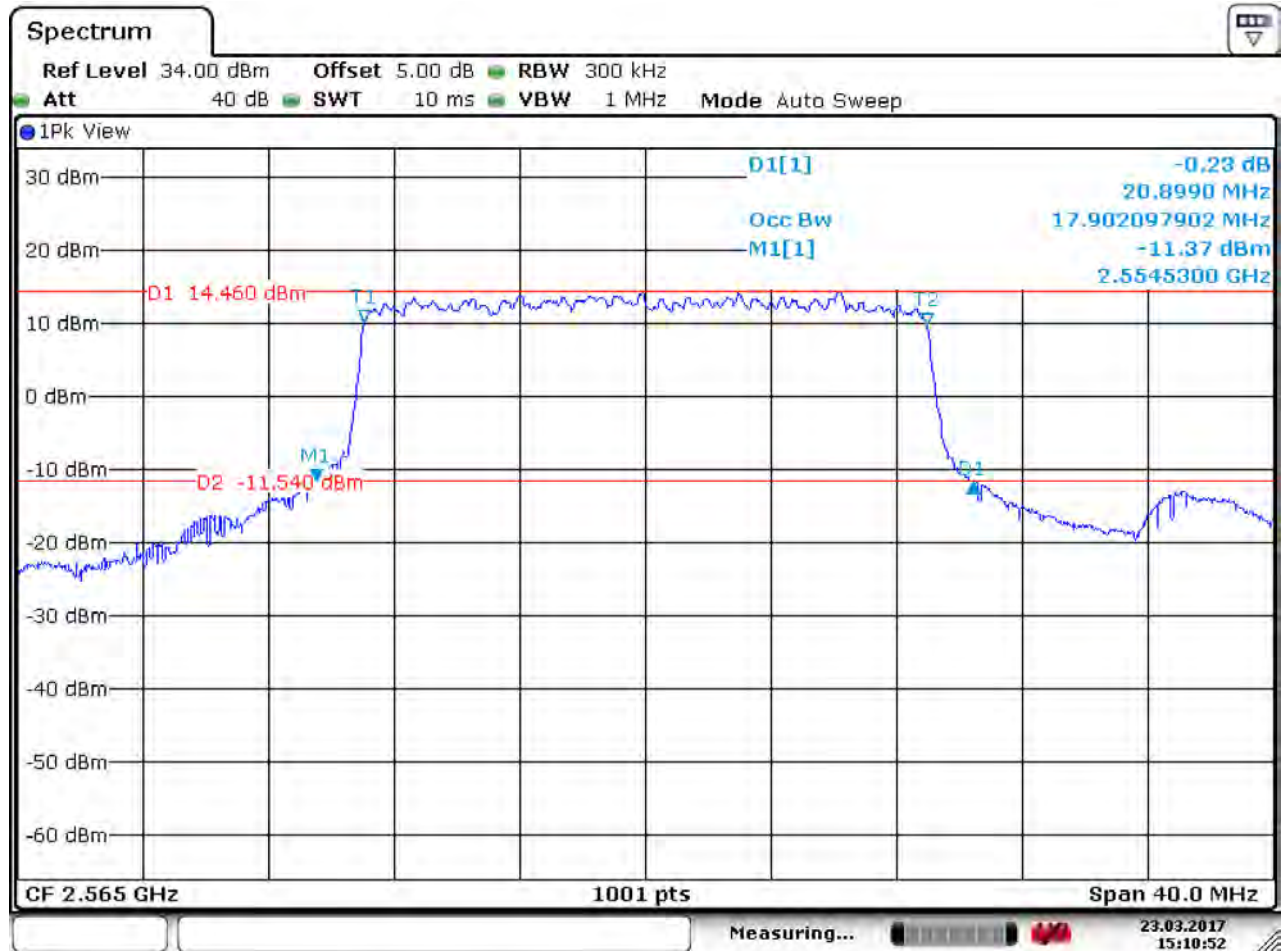
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4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH

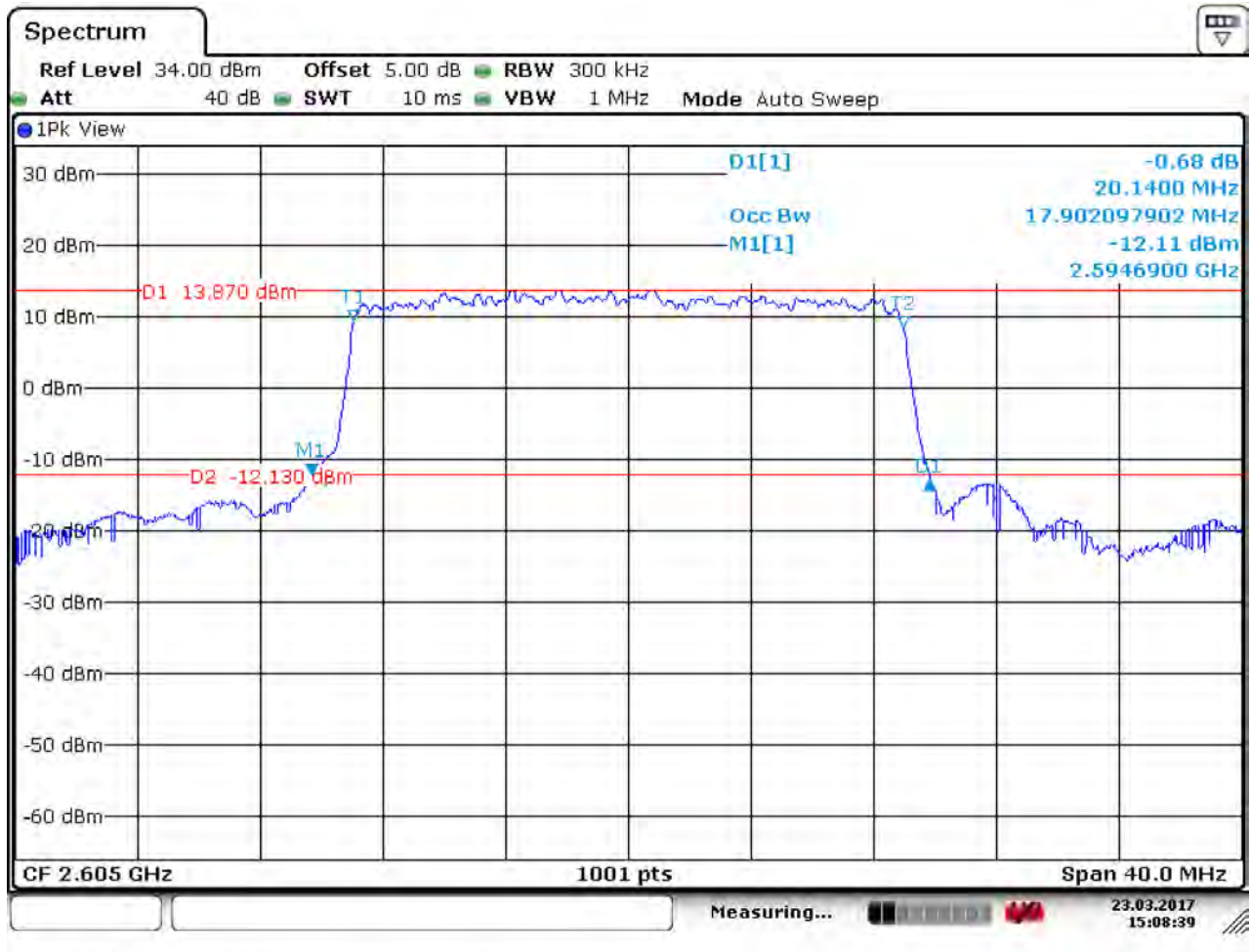


Date: 23.MAR.2017 15:10:52





4.1.1.8.2 Test Channel = MCH

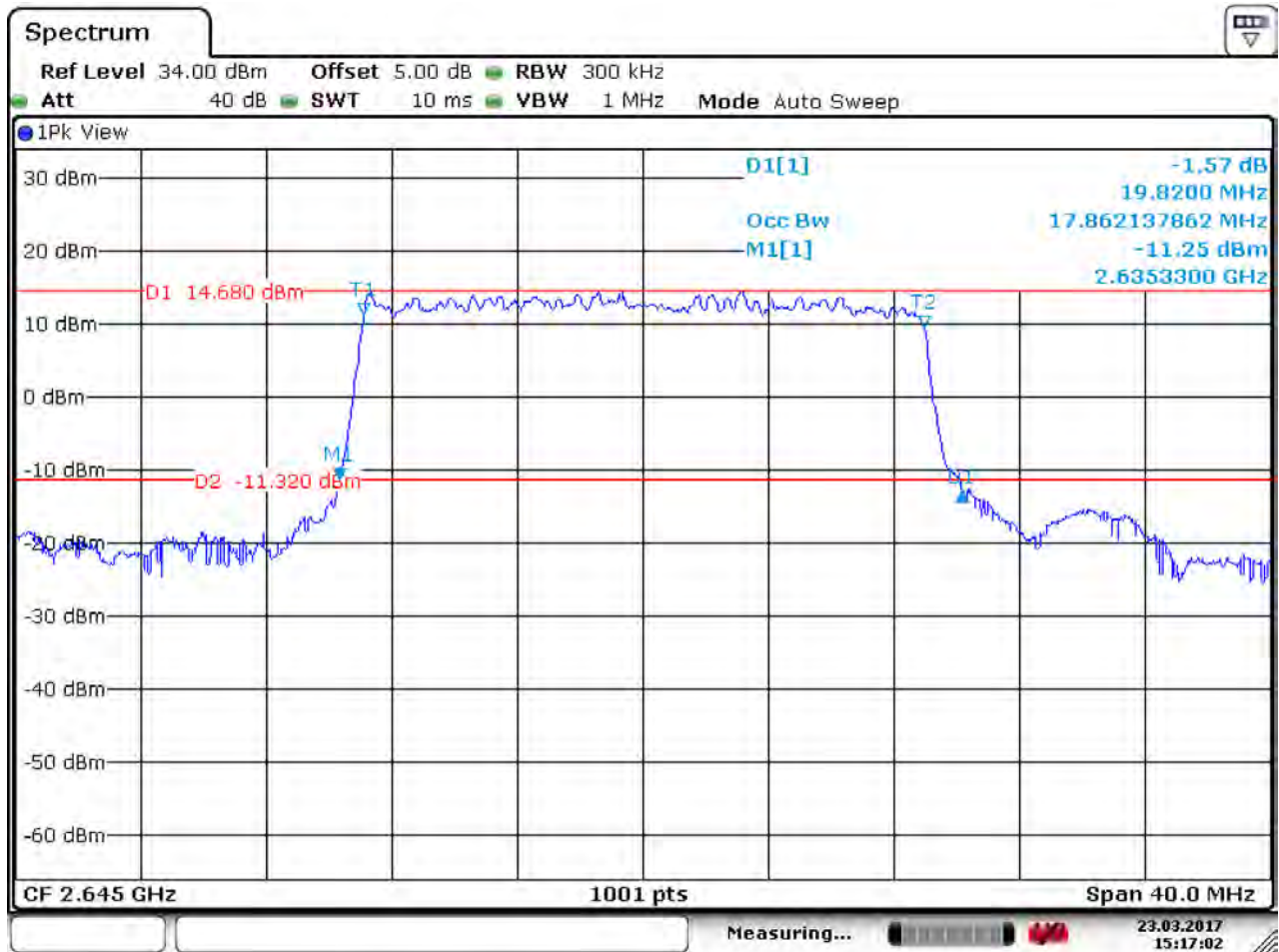


Date: 23.MAR.2017 15:08:39

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4.1.1.8.3 Test Channel = HCH



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## 5 Band Edges Compliance

Part I –

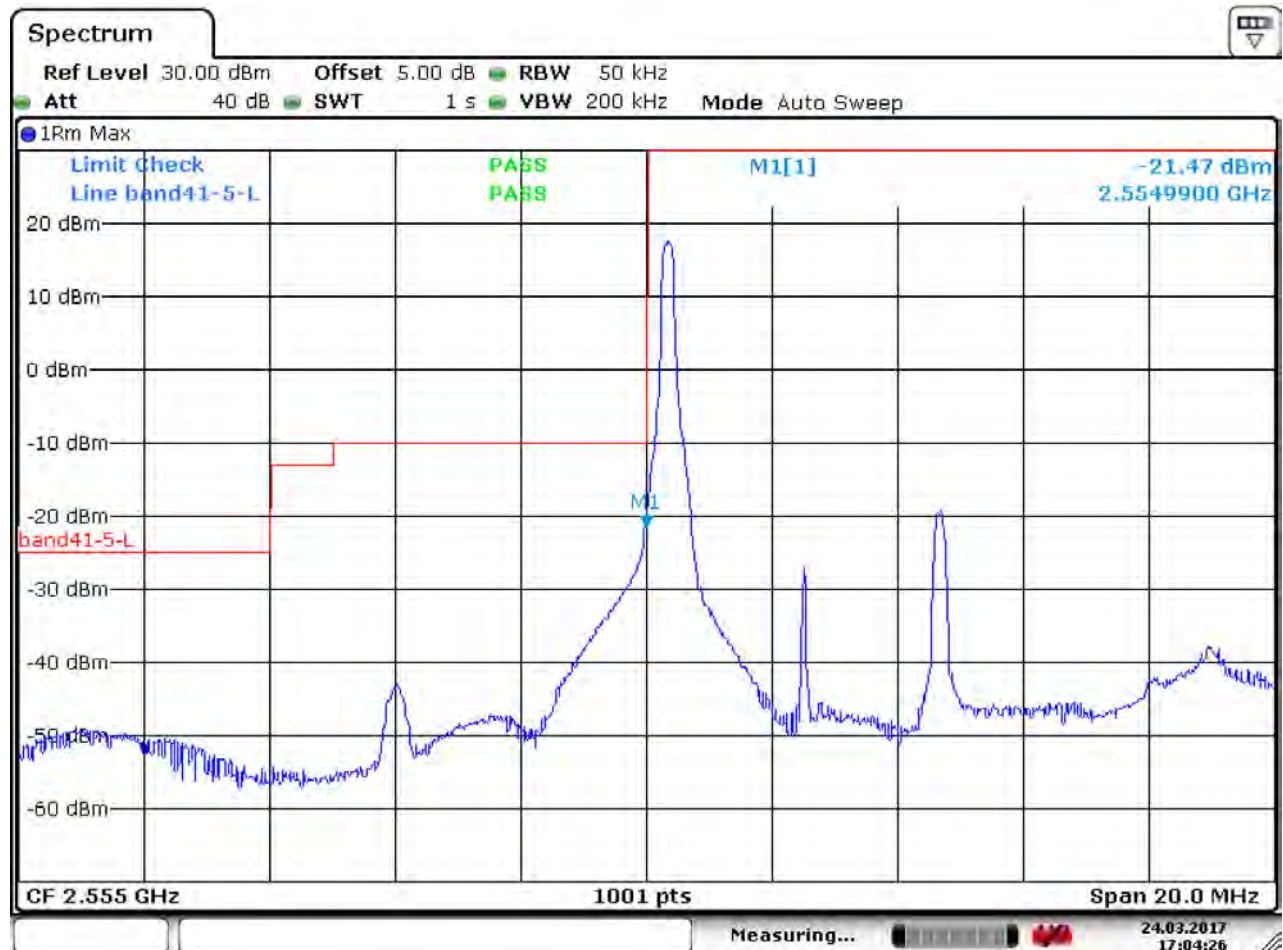
### 5.1 For LTE

#### 5.1.1 Test Band = LTE band41

##### 5.1.1.1 Test Mode = LTE/TM1 5MHz

##### 5.1.1.1.1 Test Channel = LCH

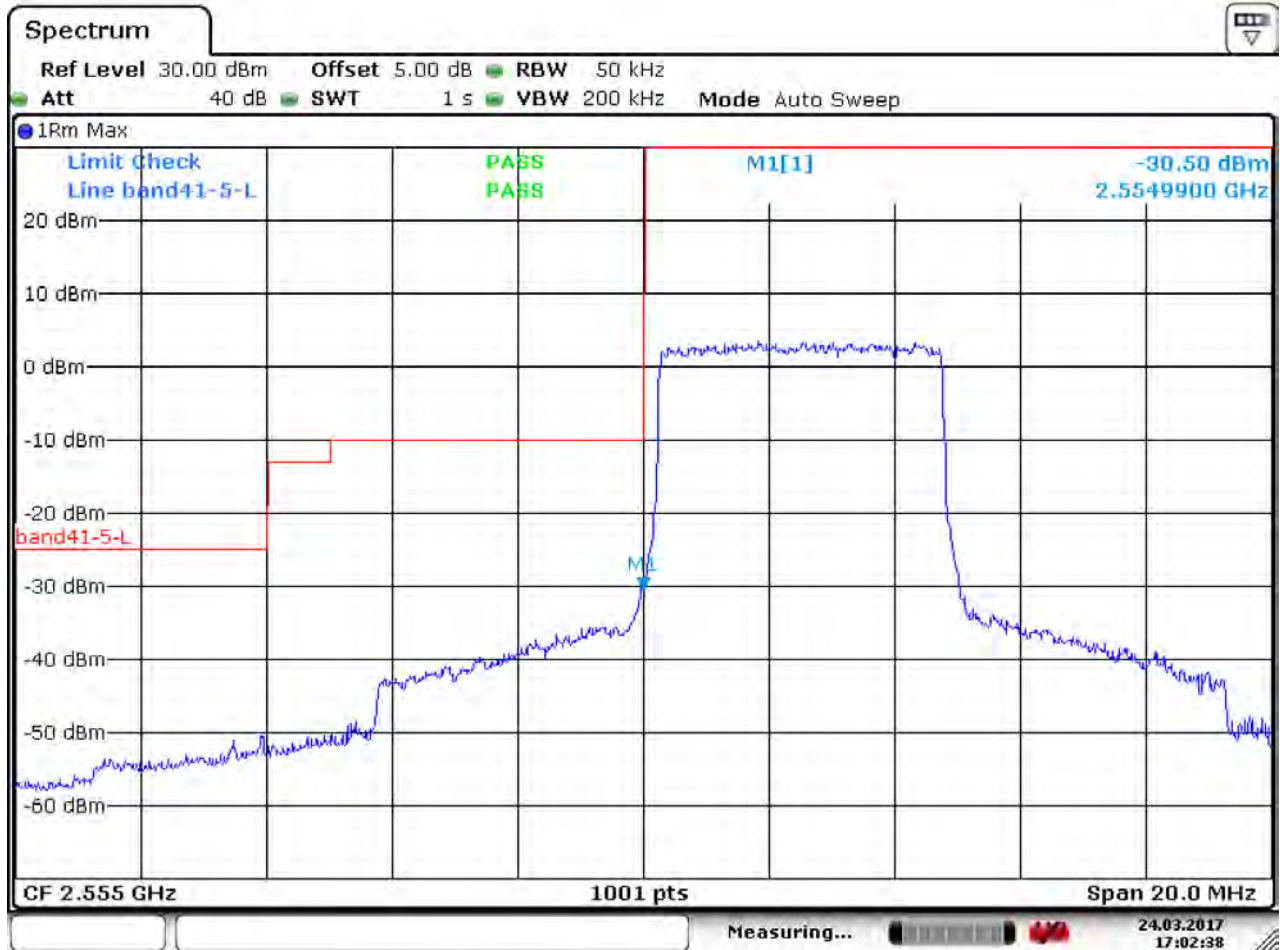
##### 5.1.1.1.1.1 Test RB=1RB



Date: 24.MAR.2017 17:04:26



5.1.1.1.2 Test RB=25RB

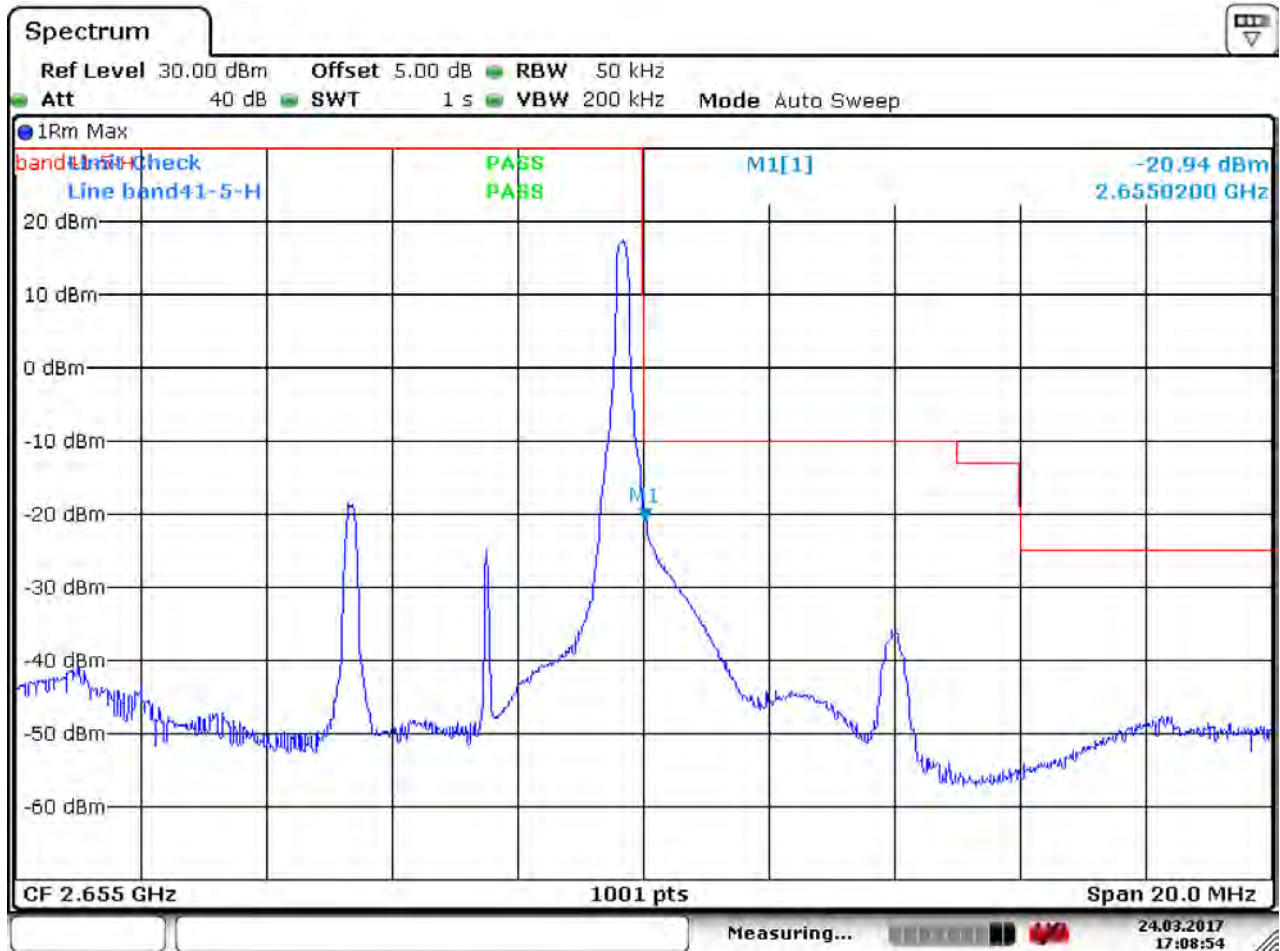


Date: 24. MAR. 2017 17:02:38



5.1.1.1.2 Test Channel = HCH

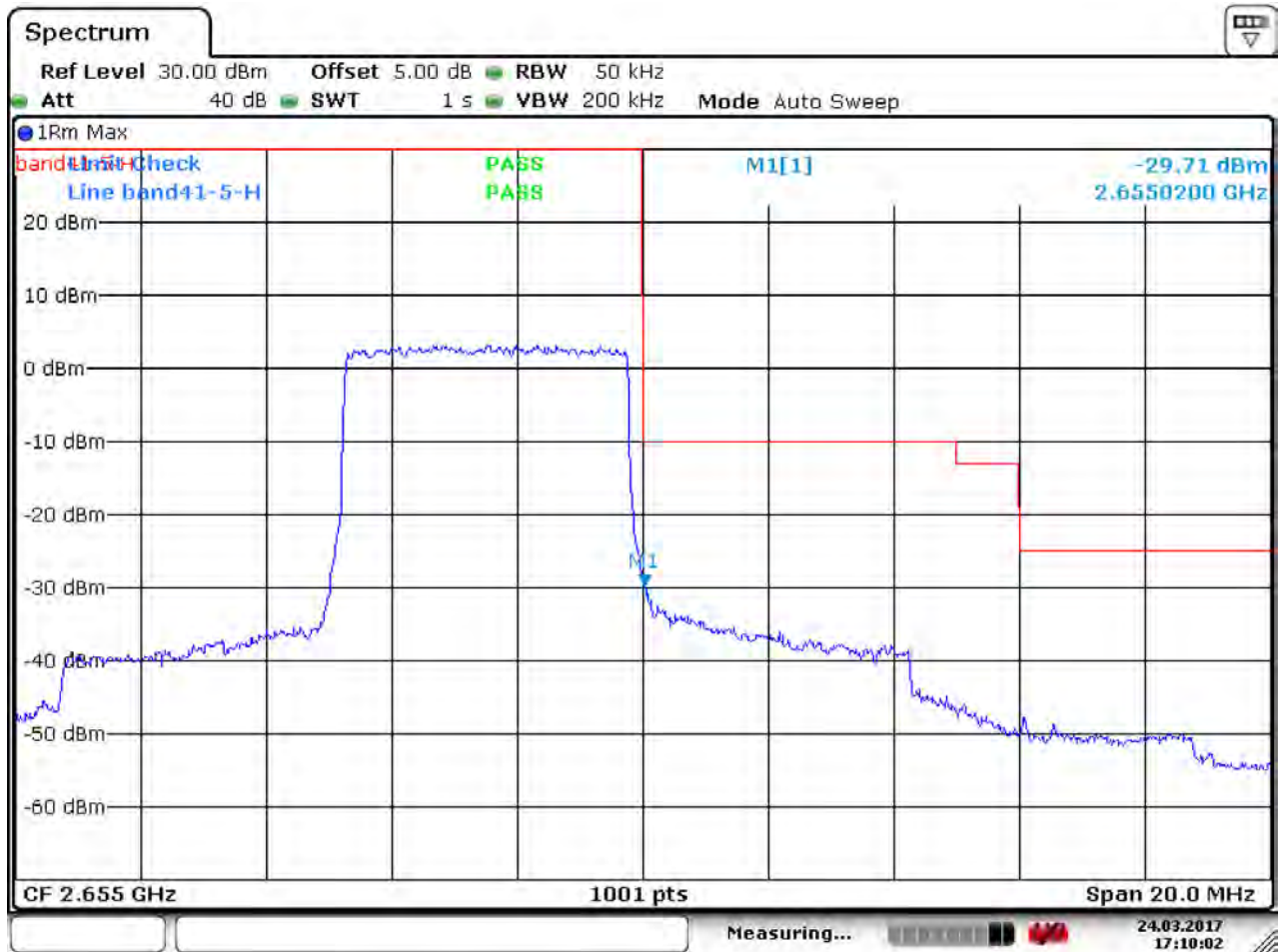
5.1.1.1.2.1 Test RB=1RB



Date: 24.MAR.2017 17:08:54



5.1.1.1.2.2 Test RB=25RB



Date: 24.MAR.2017 17:10:03

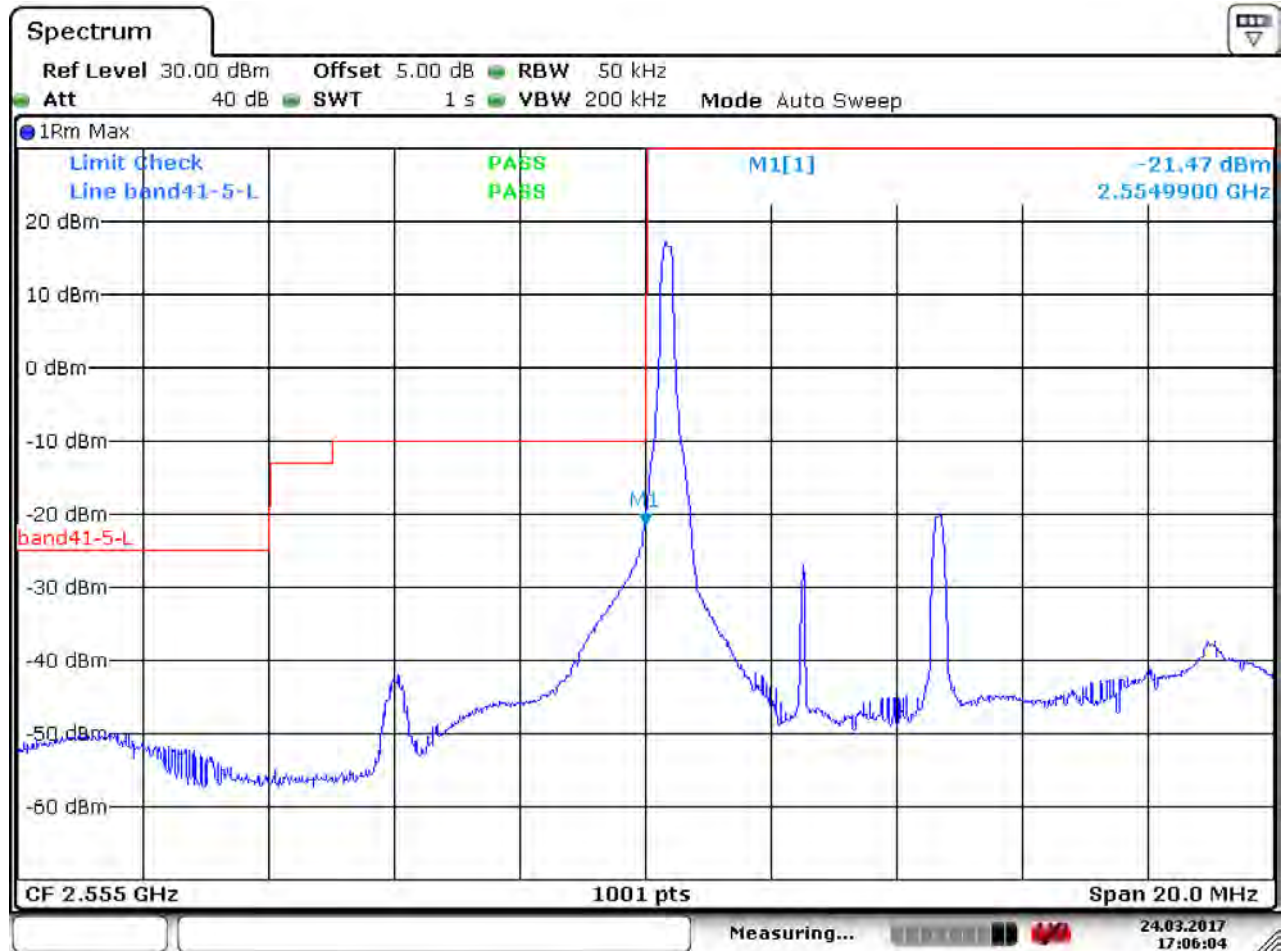
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

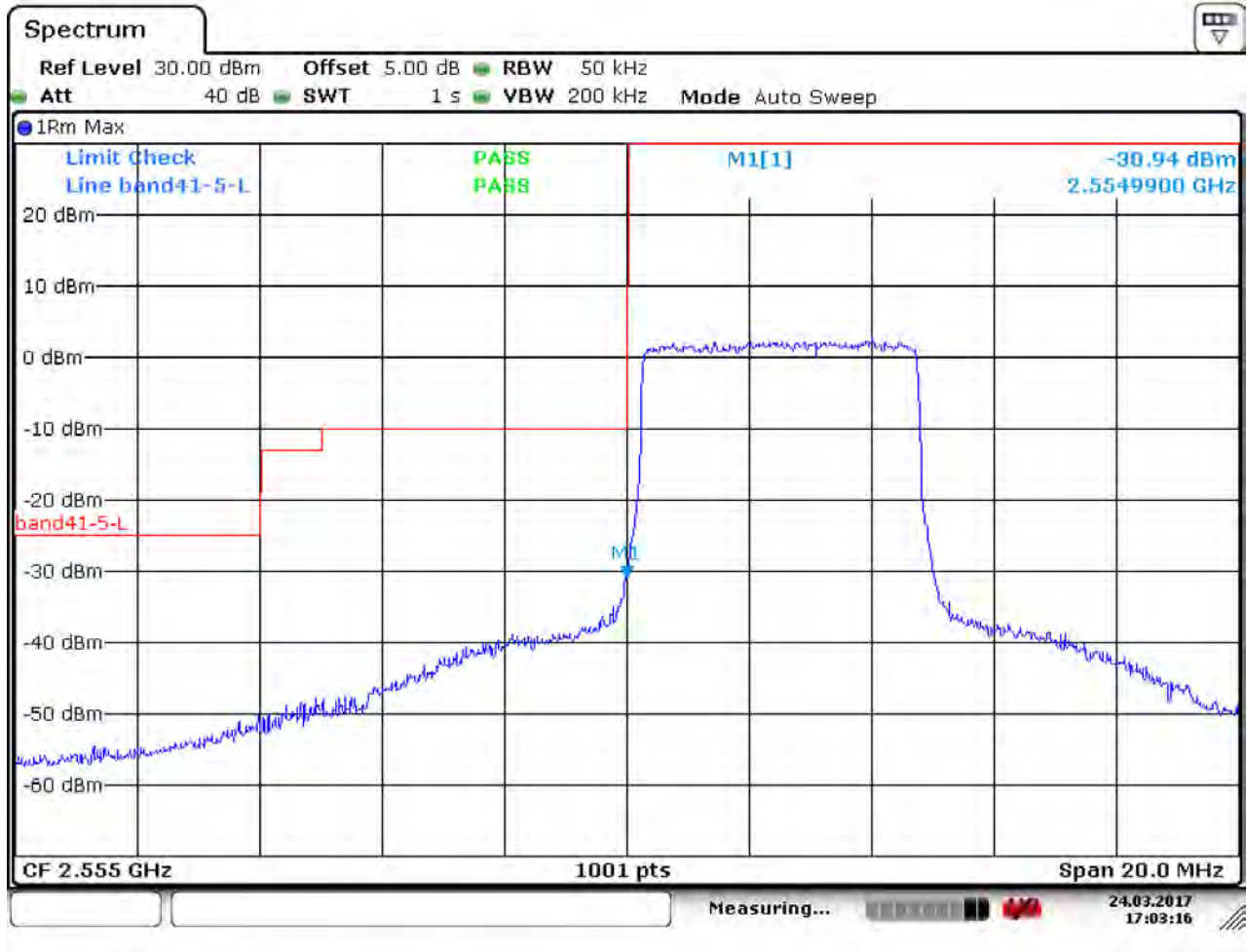


Date: 24.MAR.2017 17:06:04

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5.1.1.2.1.2 Test RB=25RB



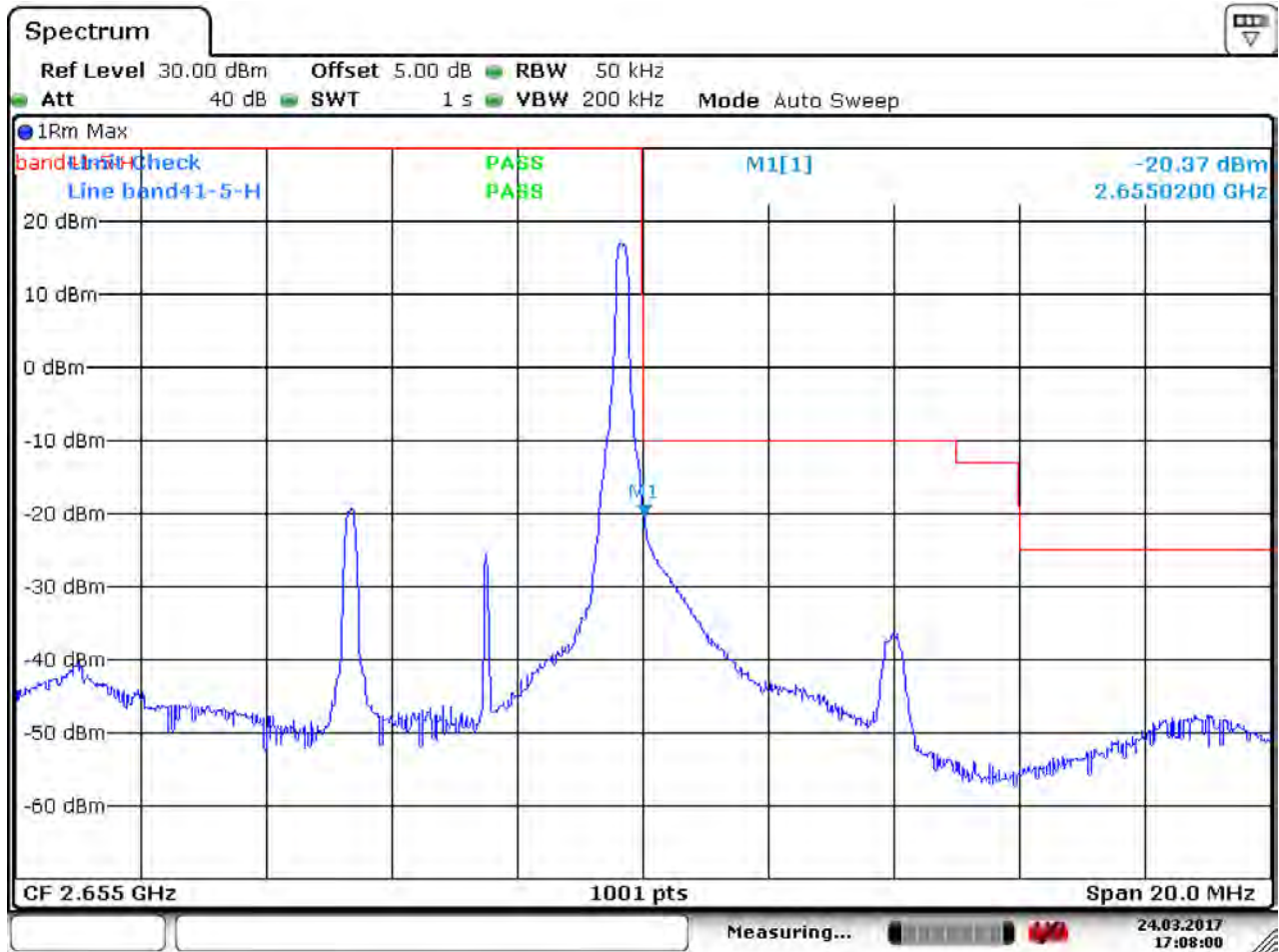
Date: 24. MAR. 2017 17:03:17





5.1.1.2.2 Test Channel = HCH

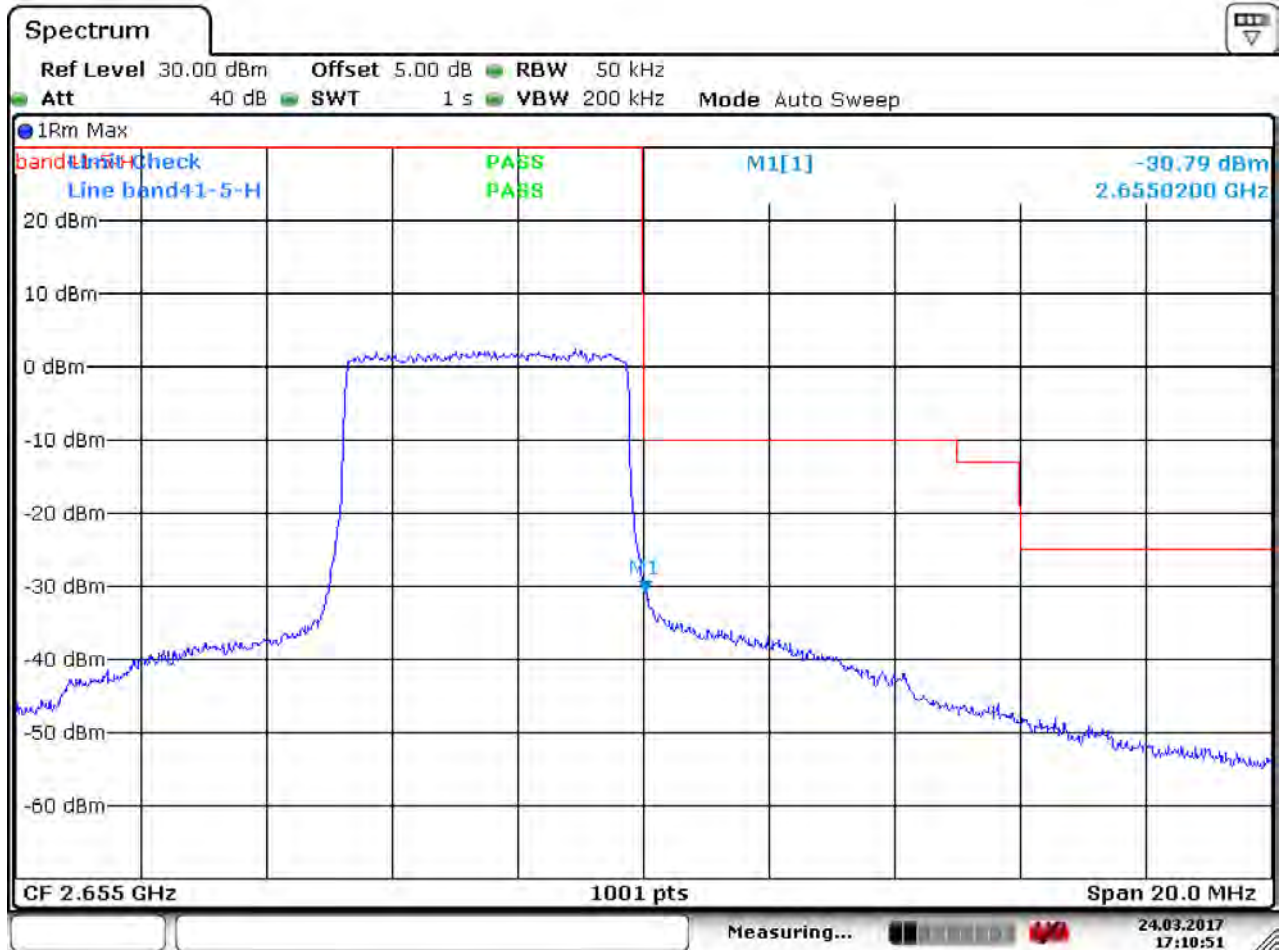
5.1.1.2.2.1 Test RB=1RB



Date: 24.MAR.2017 17:08:01



5.1.1.2.2.2 Test RB=25RB



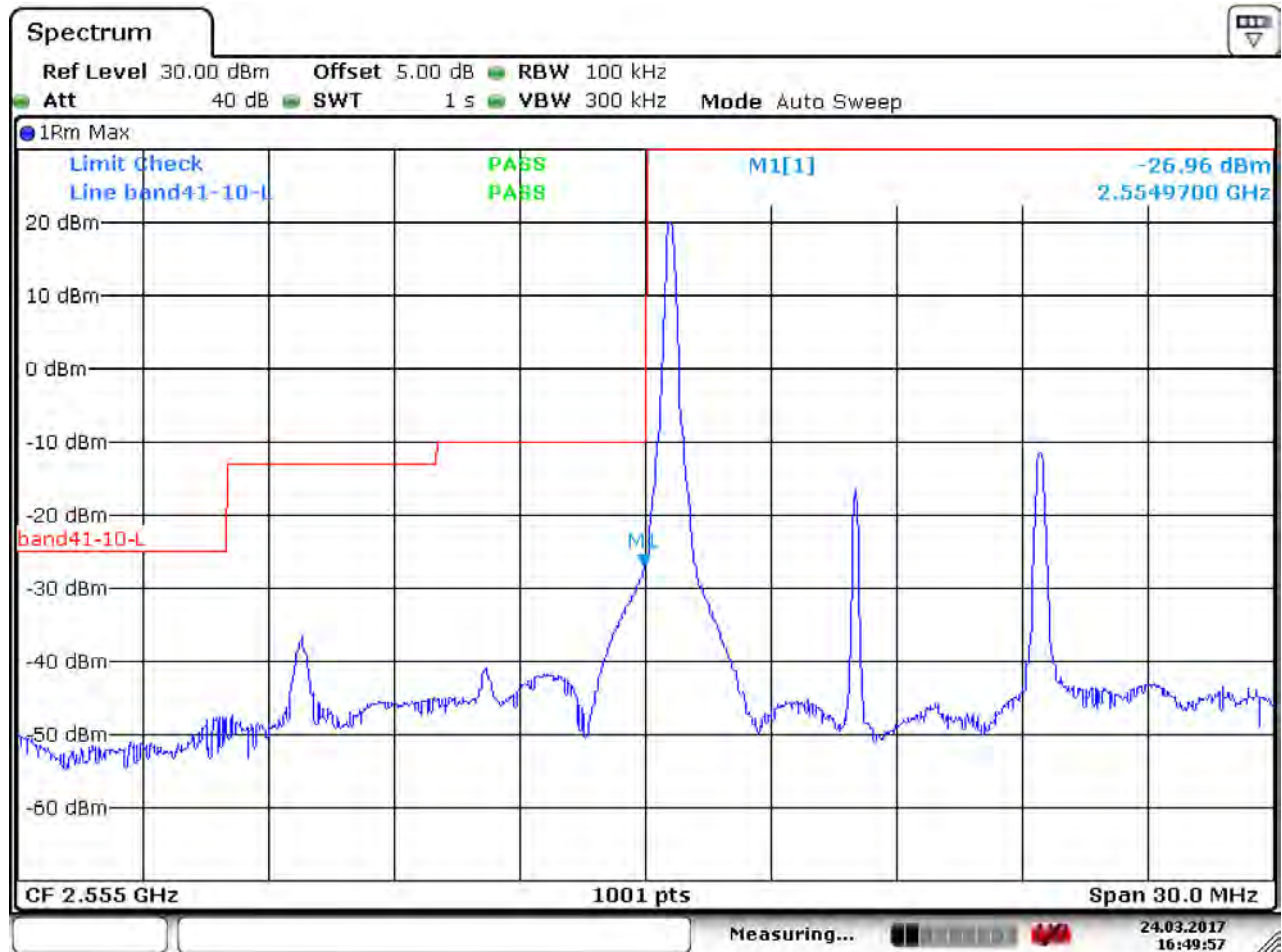
Date: 24. MAR. 2017 17:10:51

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5.1.1.3 Test Mode = LTE/TM1 10MHz  
5.1.1.3.1 Test Channel = LCH

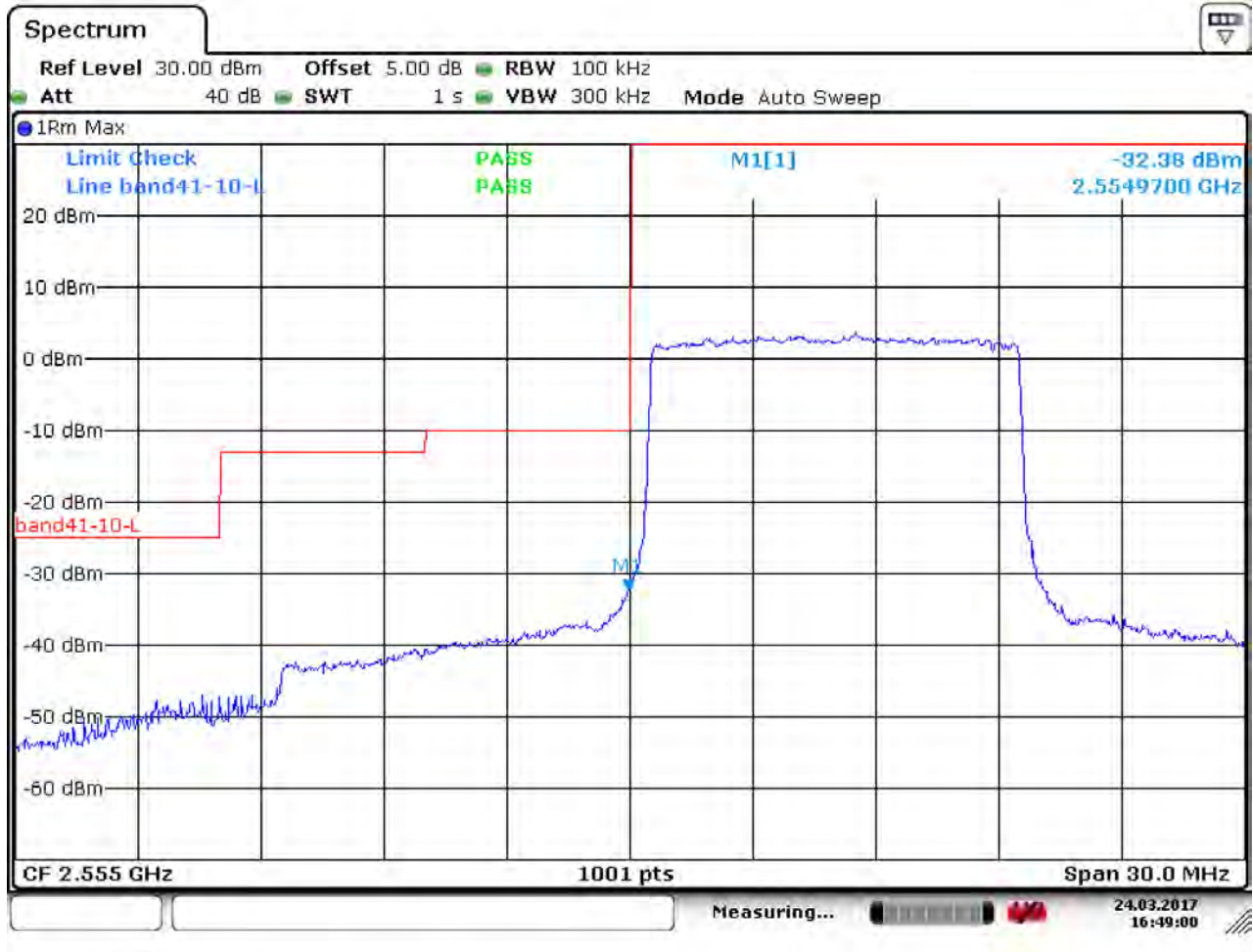
5.1.1.3.1.1 Test RB=1RB



Date: 24.MAR.2017 16:49:58



5.1.1.3.1.2 Test RB=50RB

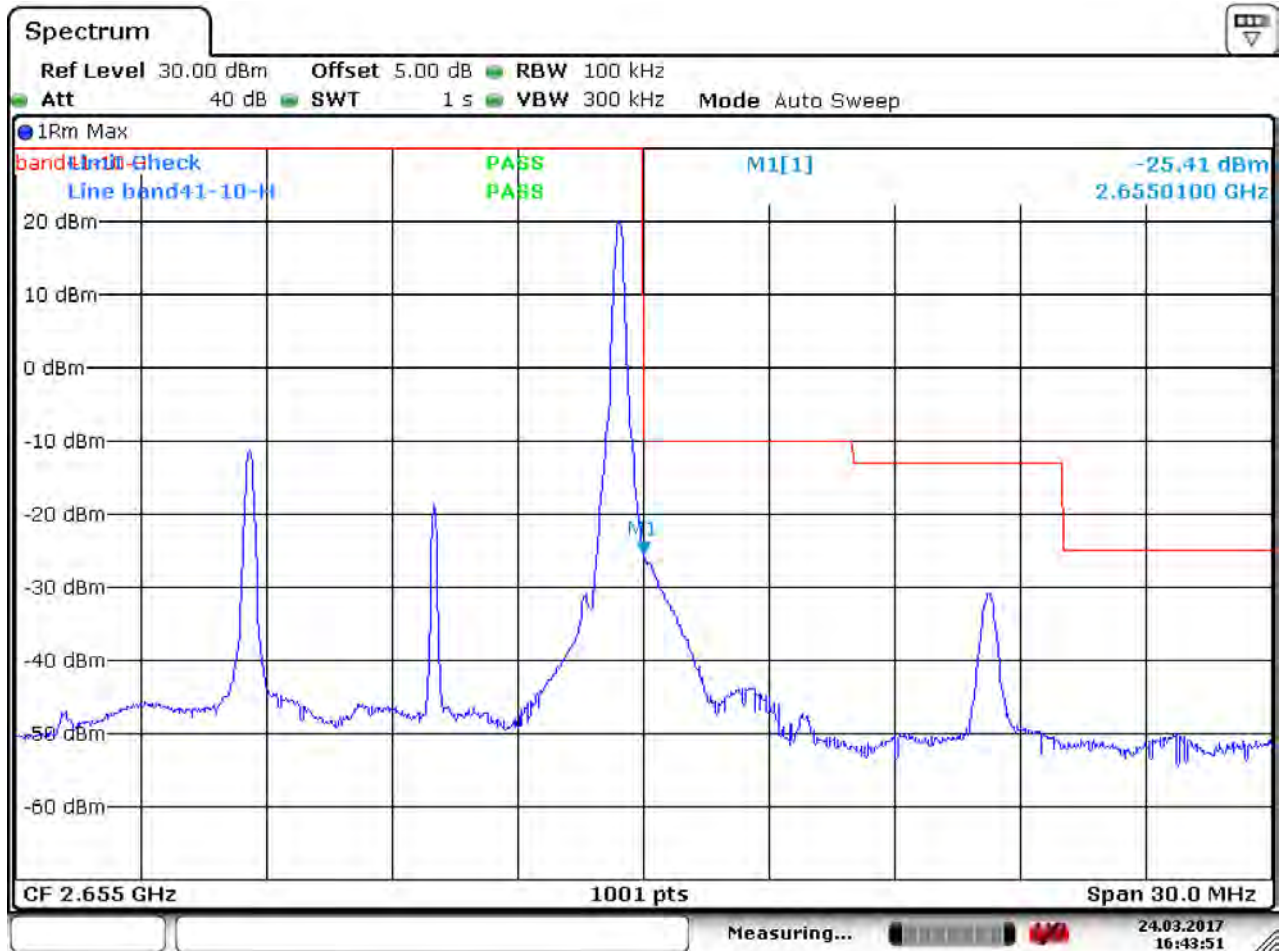


Date: 24. MAR. 2017 16:49:01



5.1.1.3.2 Test Channel = HCH

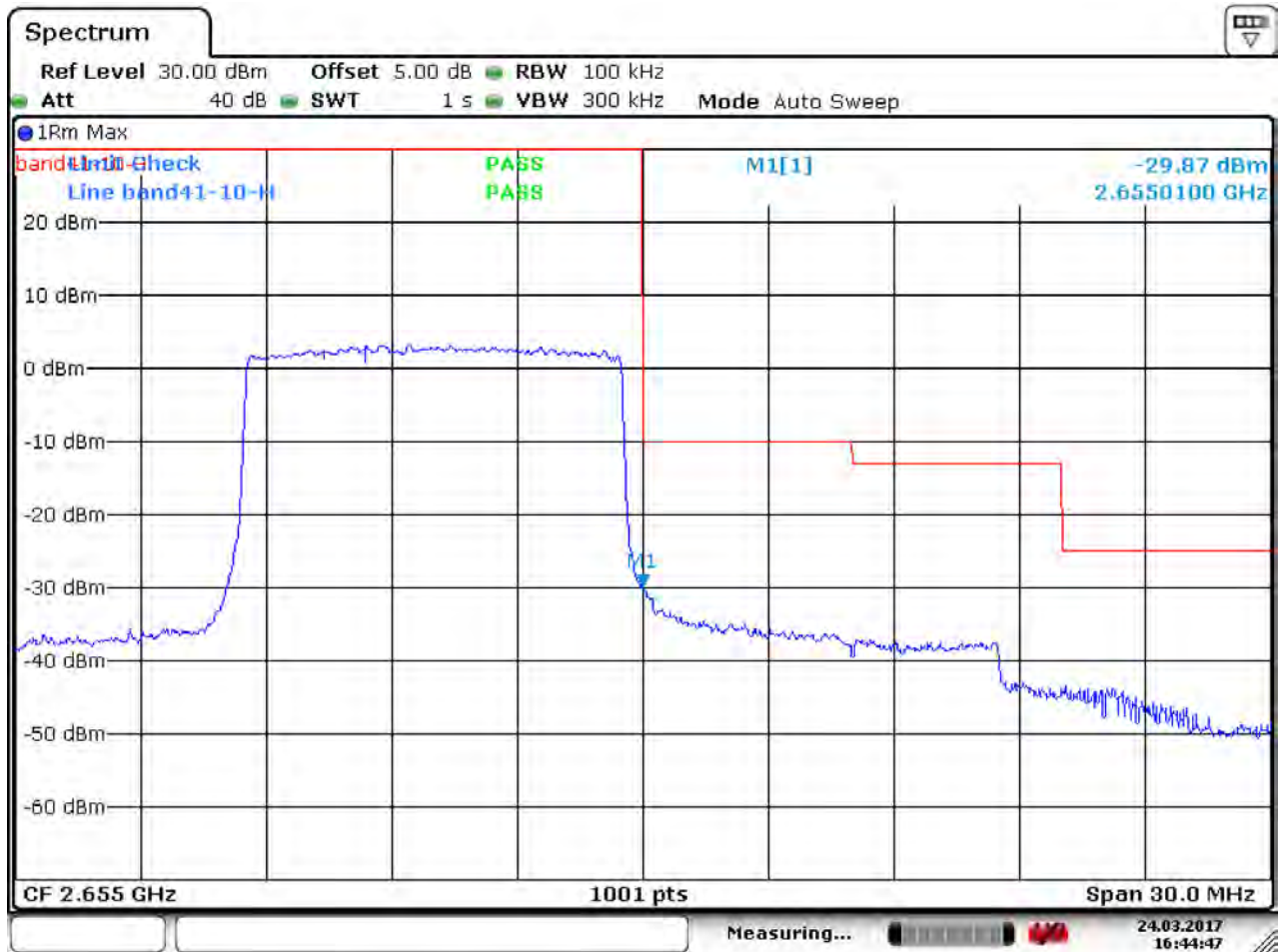
5.1.1.3.2.1 Test RB=1RB



Date: 24. MAR. 2017 16:43:52



5.1.1.3.2.2 Test RB=50RB



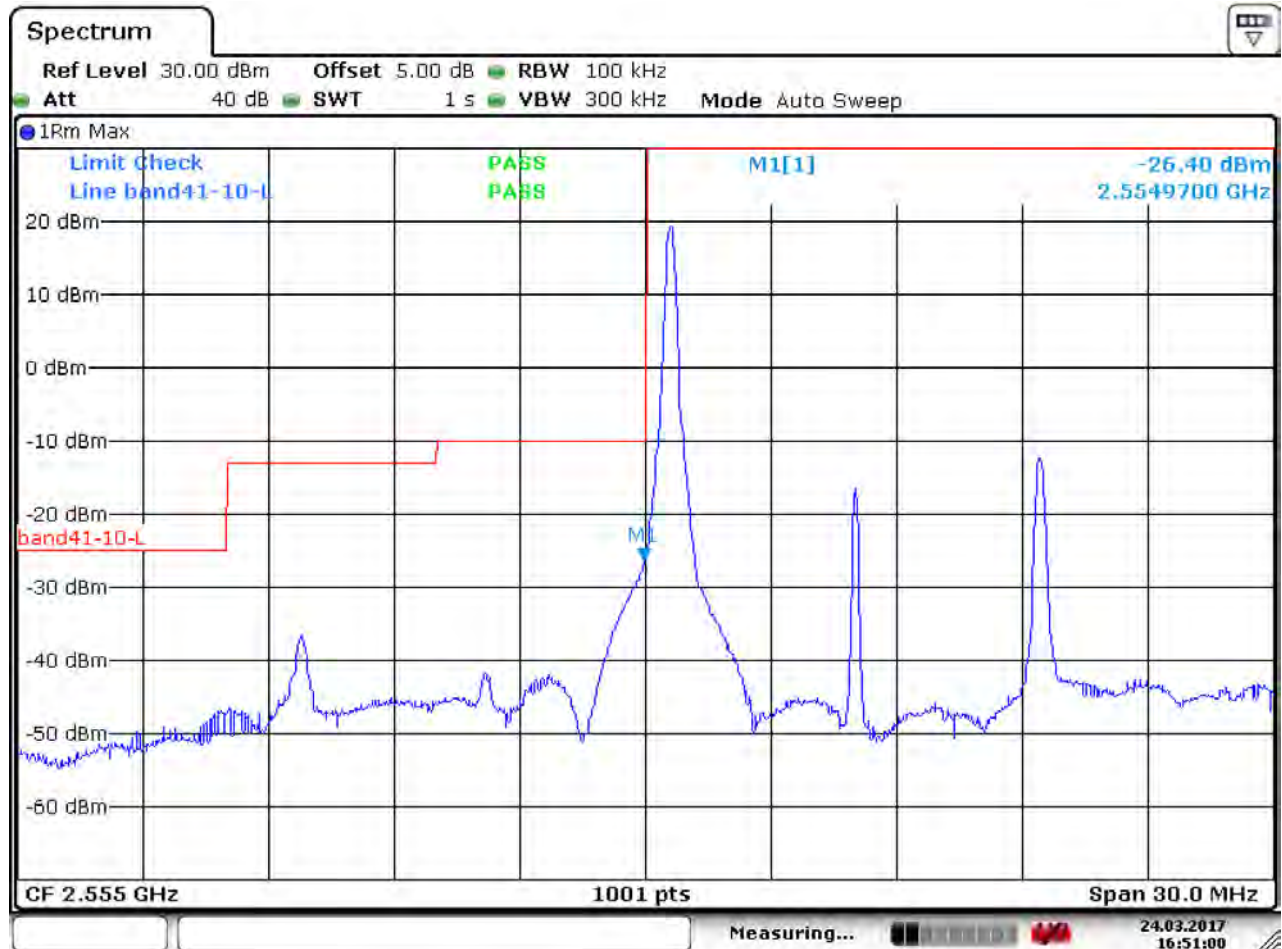
Date: 24.MAR.2017 16:44:47



5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

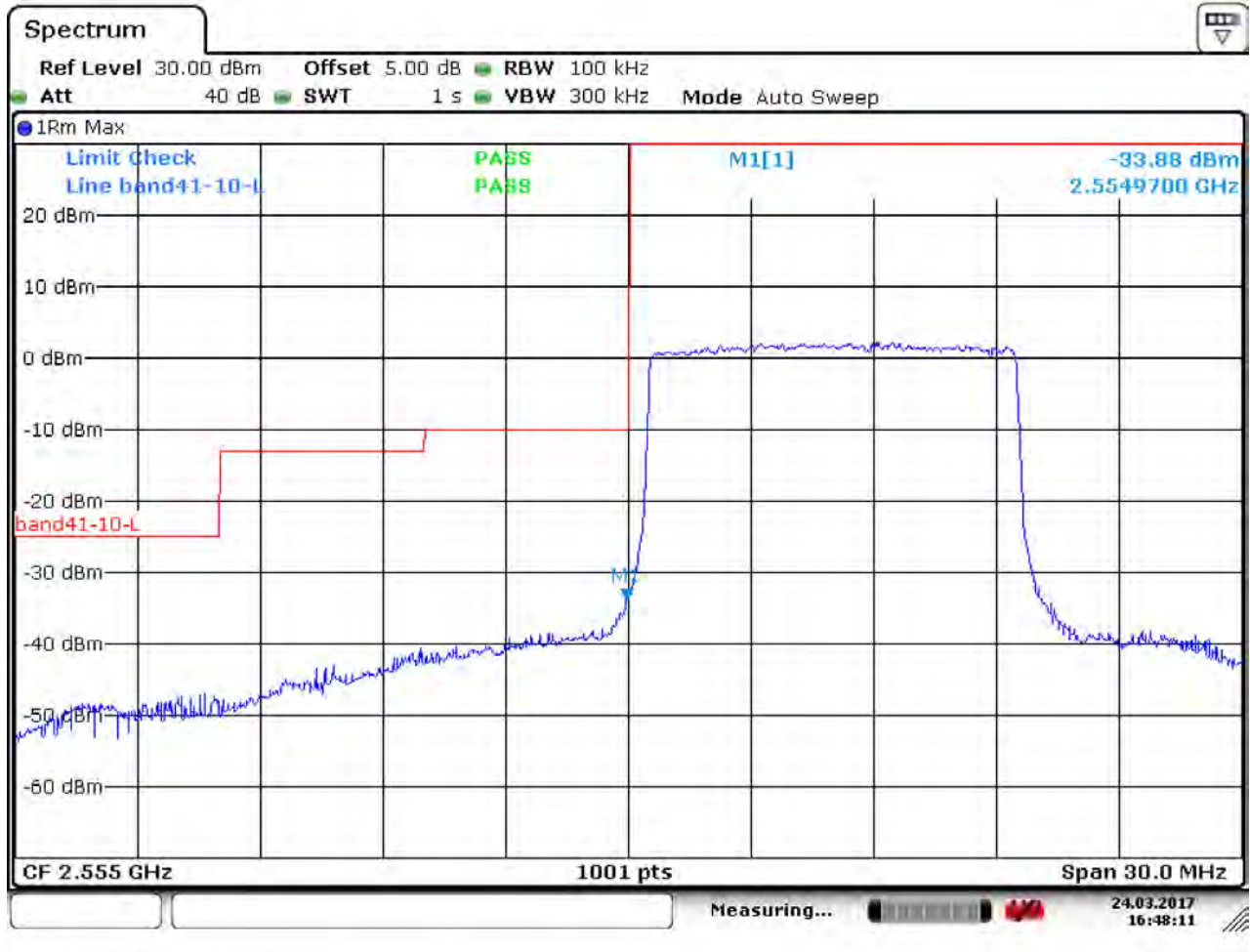
5.1.1.4.1.1 Test RB=1RB



Date: 24.MAR.2017 16:51:00



5.1.1.4.1.2 Test RB=50RB

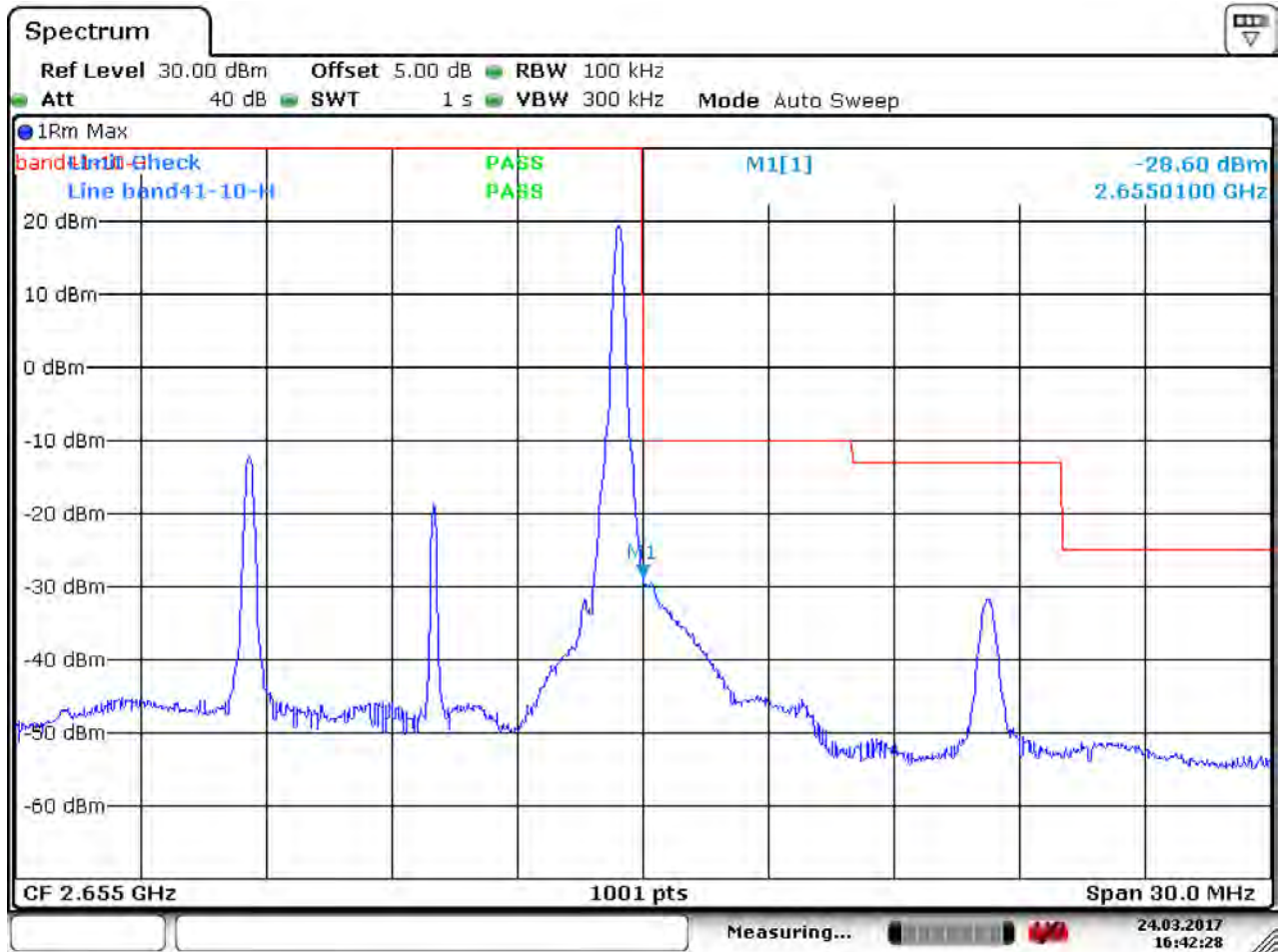


Date: 24. MAR. 2017 16:48:12



5.1.1.4.2 Test Channel = HCH

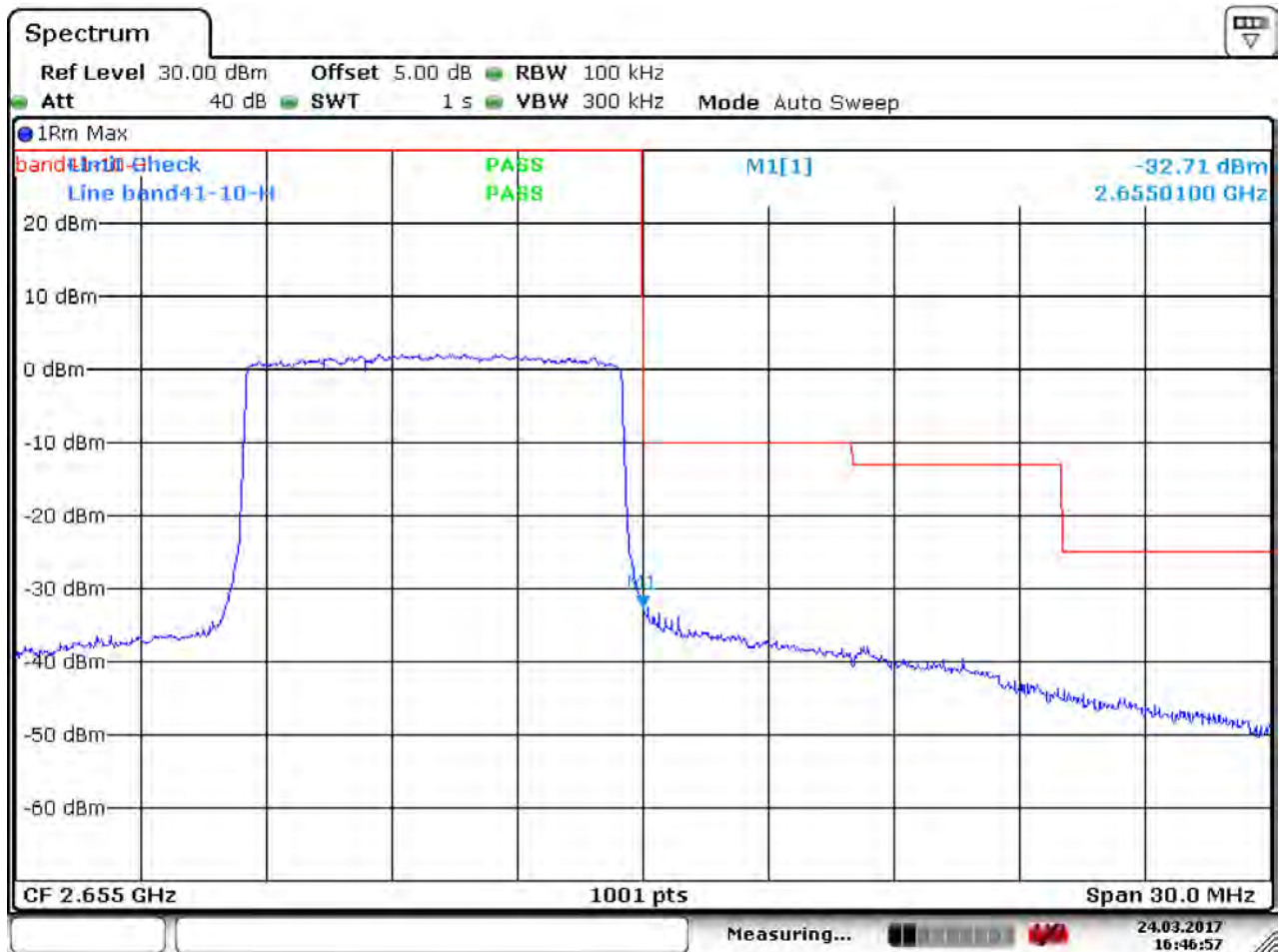
5.1.1.4.2.1 Test RB=1RB



Date: 24. MAR. 2017 16:42:28



5.1.1.4.2.2 Test RB=50RB

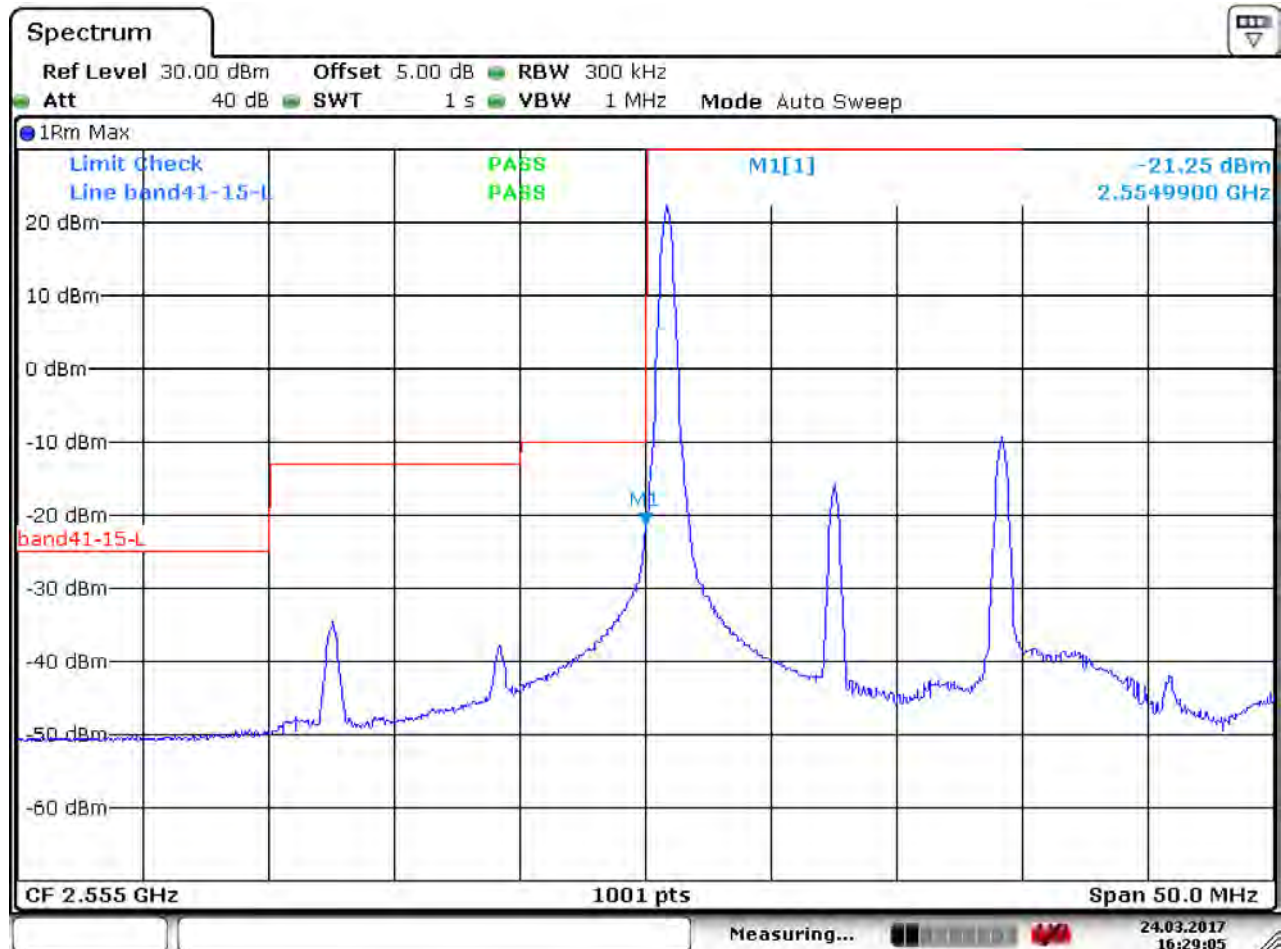


Date: 24. MAR. 2017 16:46:57



5.1.1.5 Test Mode = LTE/TM1 15MHz  
5.1.1.5.1 Test Channel = LCH

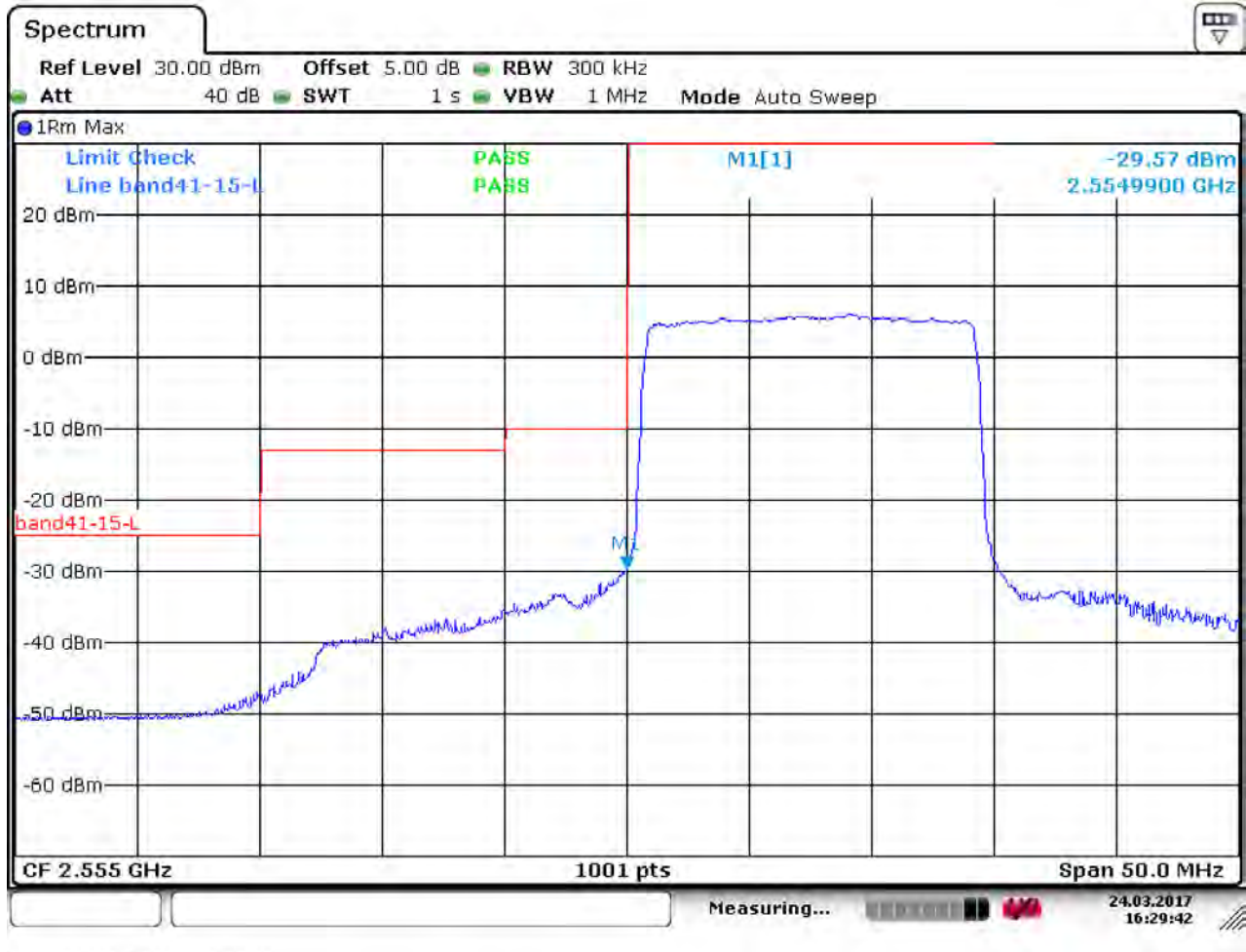
5.1.1.5.1.1 Test RB=1RB



Date: 24.MAR.2017 16:29:05



5.1.1.5.1.2 Test RB=75RB



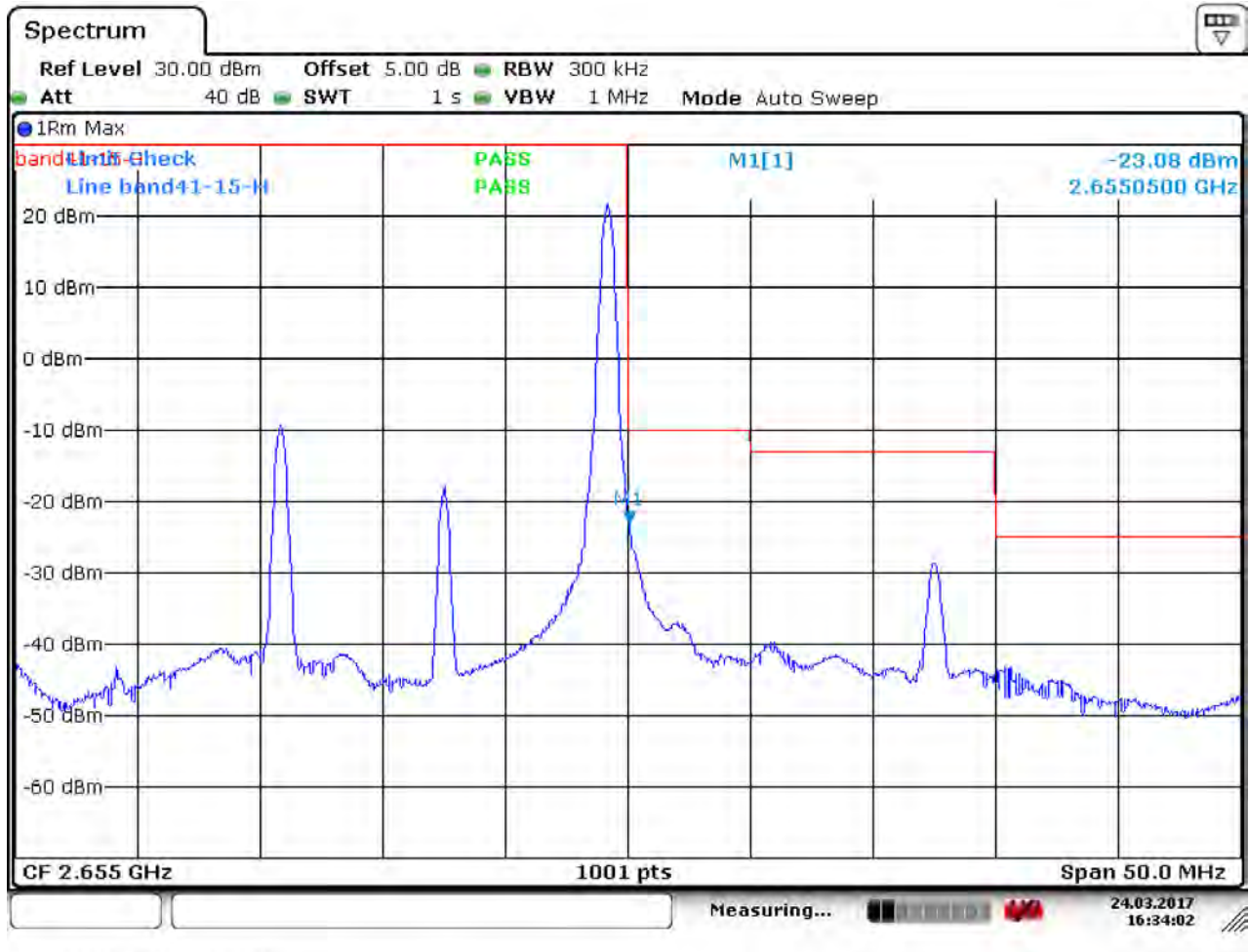
Date: 24. MAR. 2017 16:29:43

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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 24. MAR. 2017 16:34:02

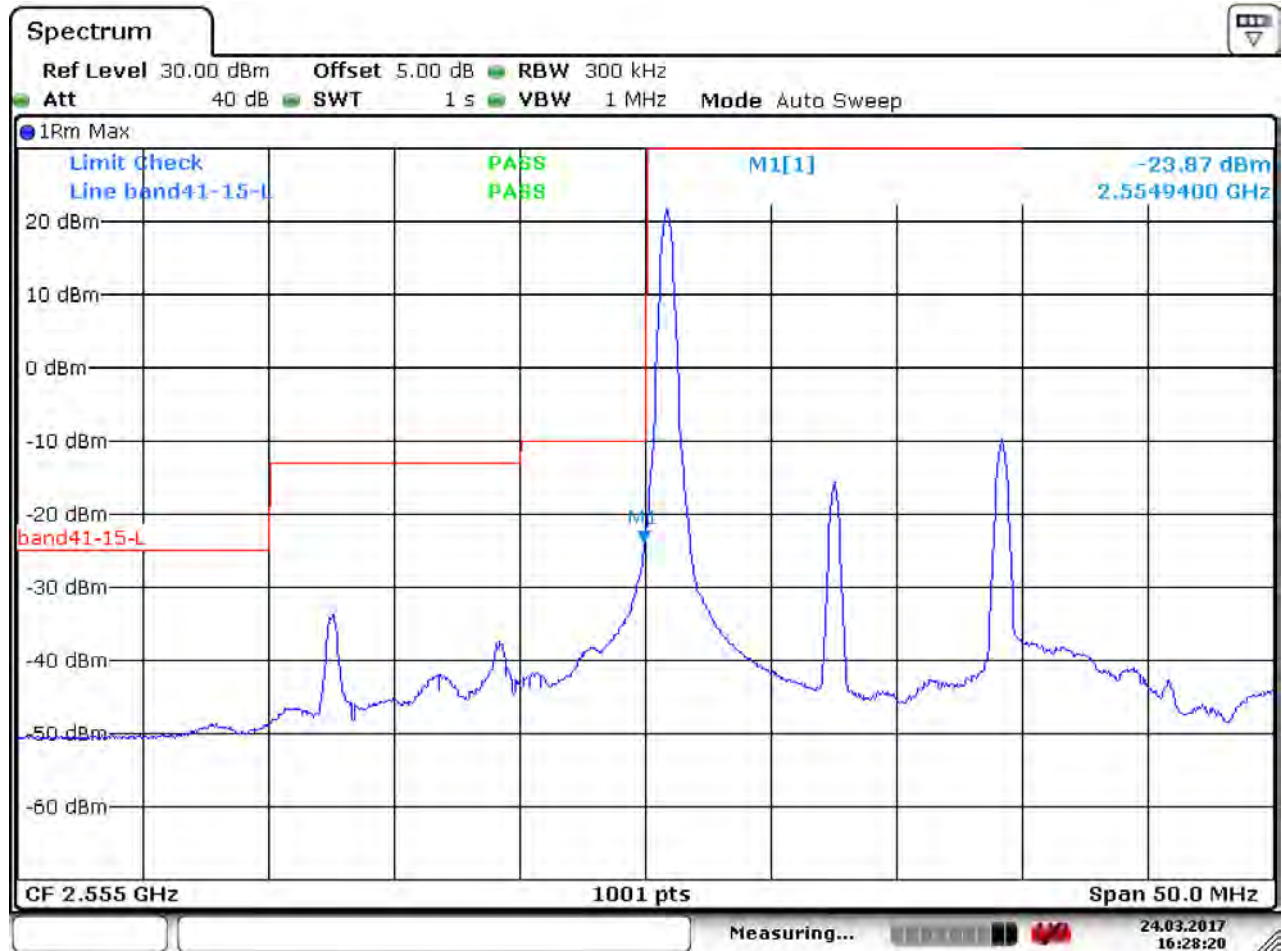




5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

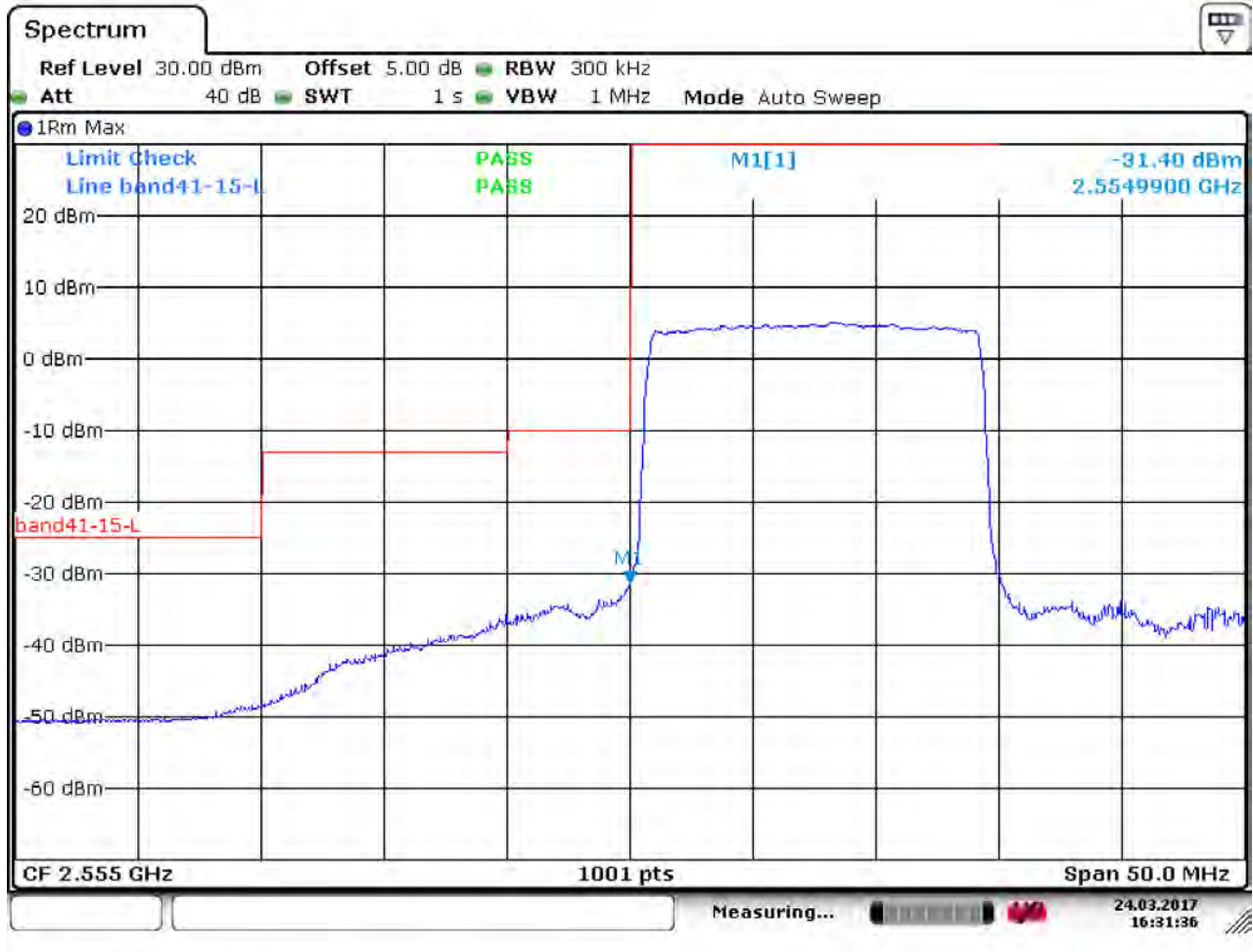
5.1.1.6.1.1 Test RB=1RB



Date: 24.MAR.2017 16:28:20



5.1.1.6.1.2 Test RB=75RB



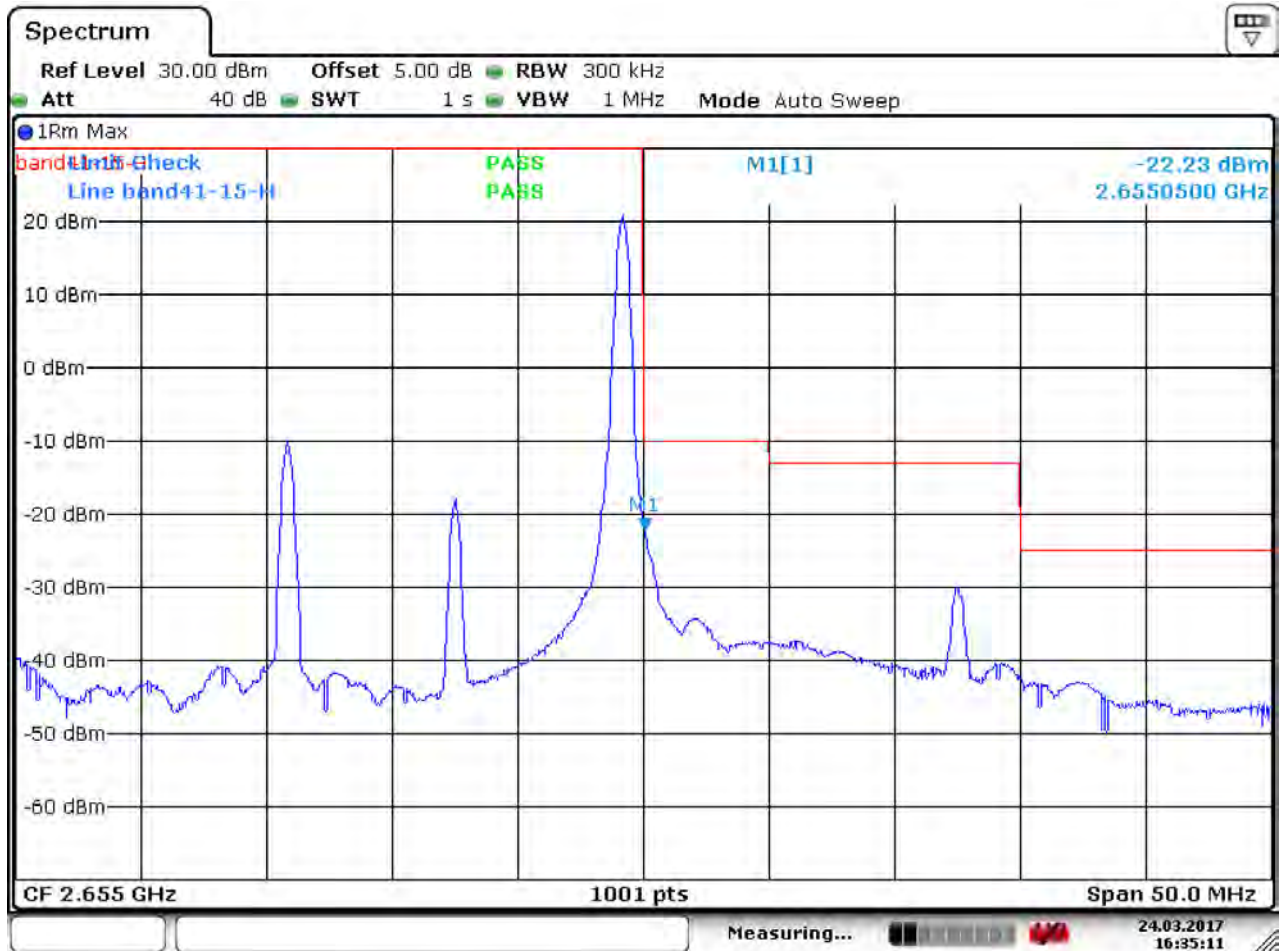
Date: 24. MAR. 2017 16:31:36





5.1.1.6.2 Test Channel = HCH

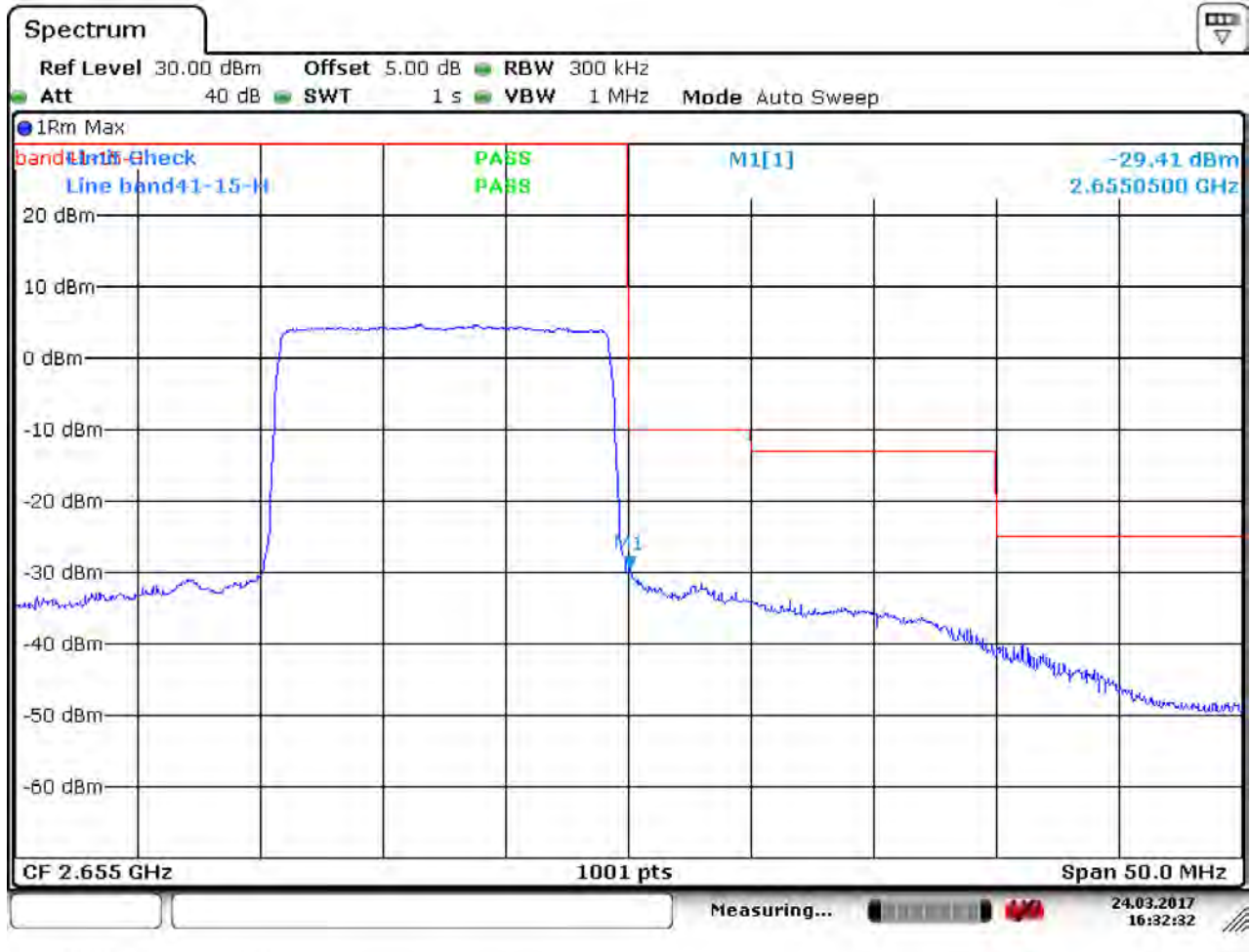
5.1.1.6.2.1 Test RB=1RB



Date: 24. MAR. 2017 16:35:12



5.1.1.6.2.2 Test RB=75RB



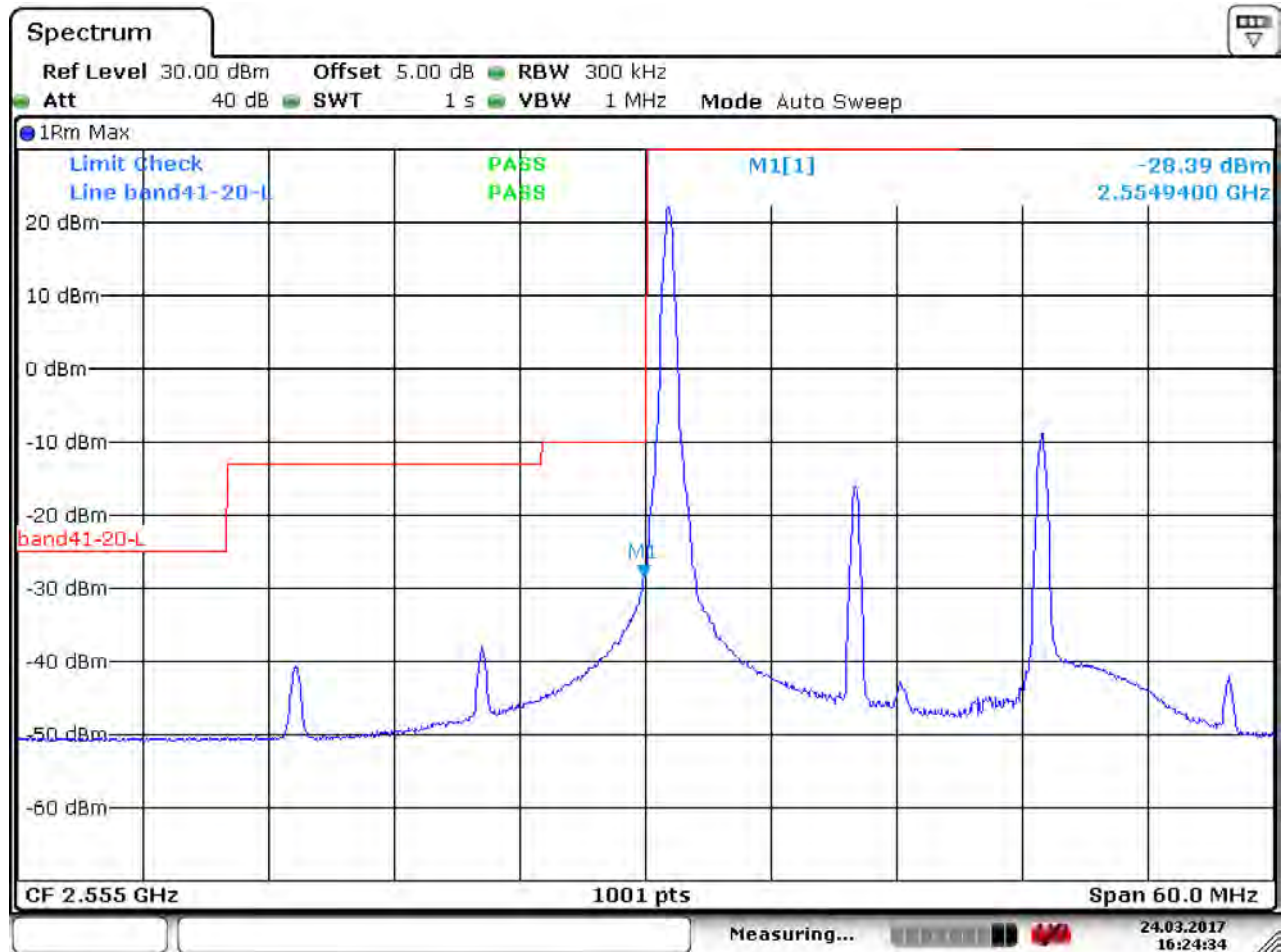
Date: 24. MAR. 2017 16:32:33



5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

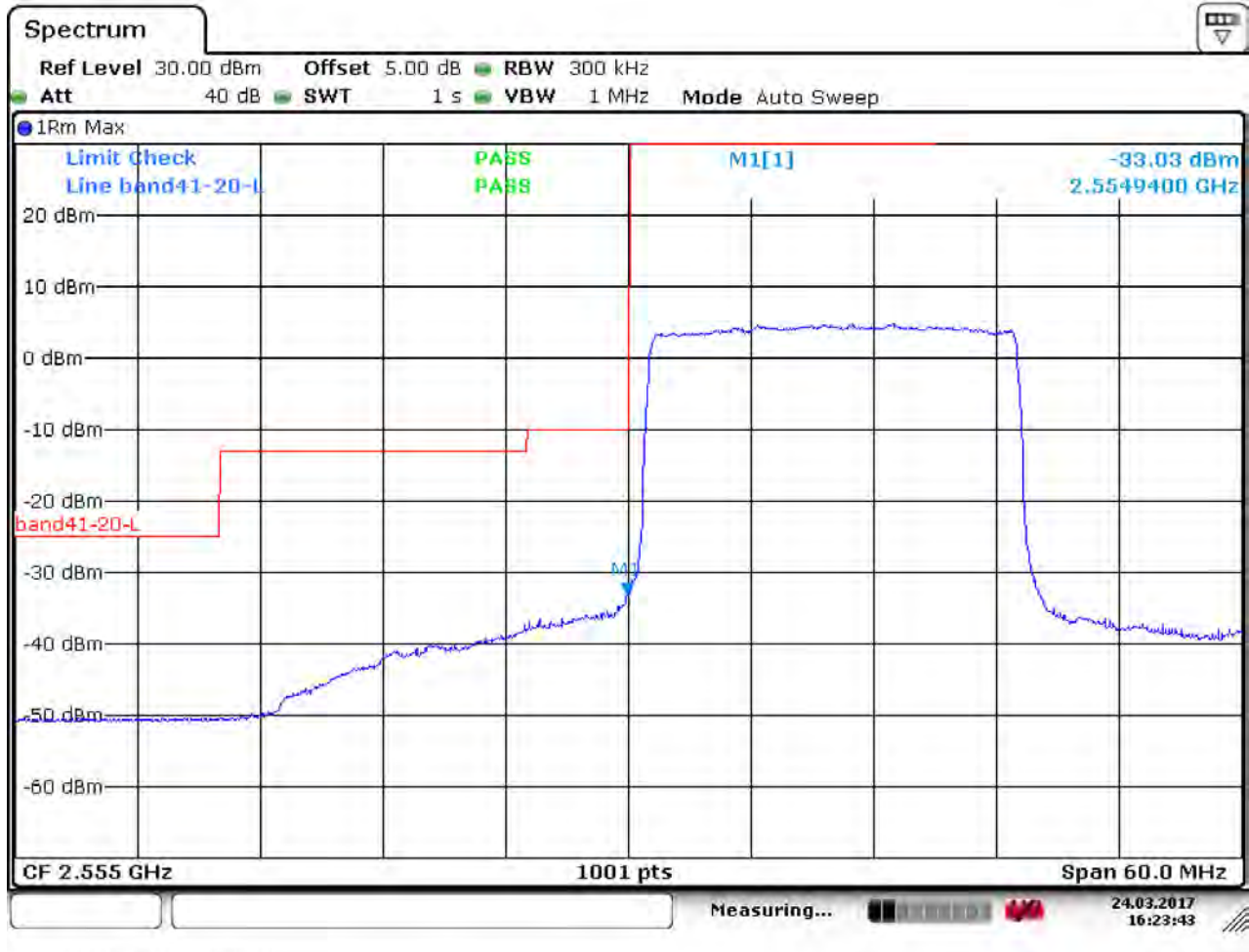
5.1.1.7.1.1 Test RB=1RB



Date: 24.MAR.2017 16:24:35



5.1.1.7.1.2 Test RB=100RB

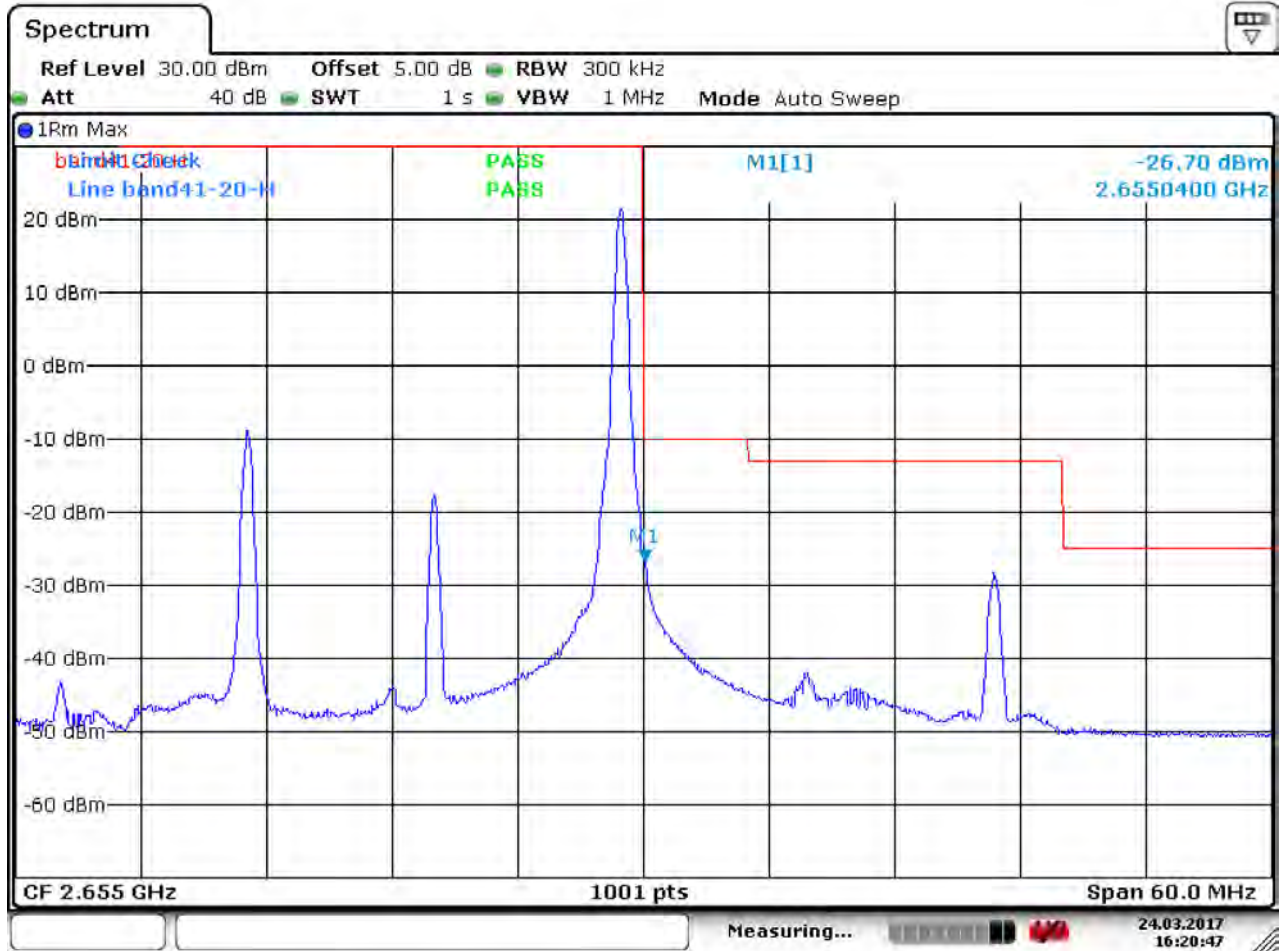


Date: 24. MAR. 2017 16:23:44



5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

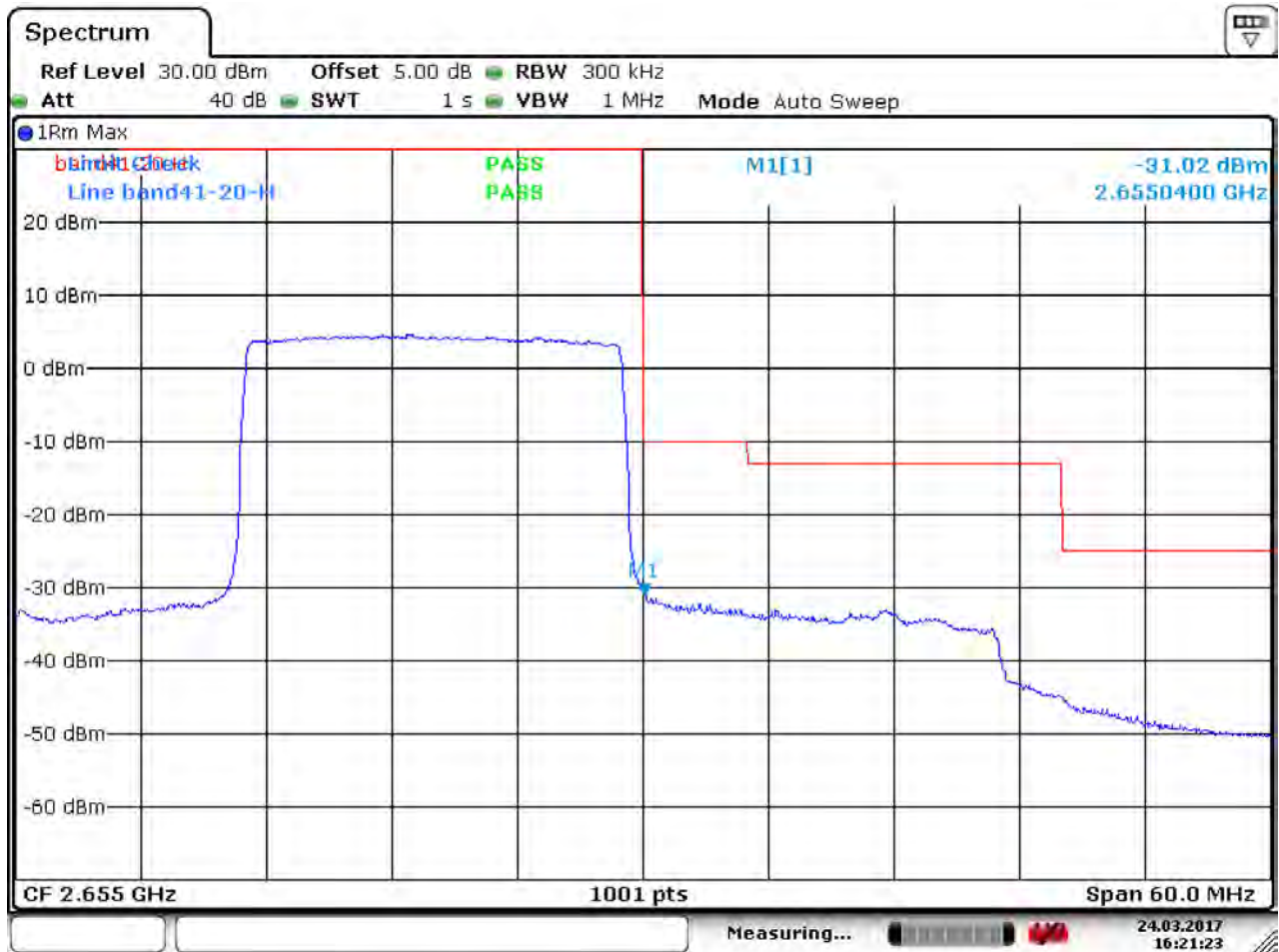


Date: 24. MAR. 2017 16:20:47

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5.1.1.7.2.2 Test RB=100RB



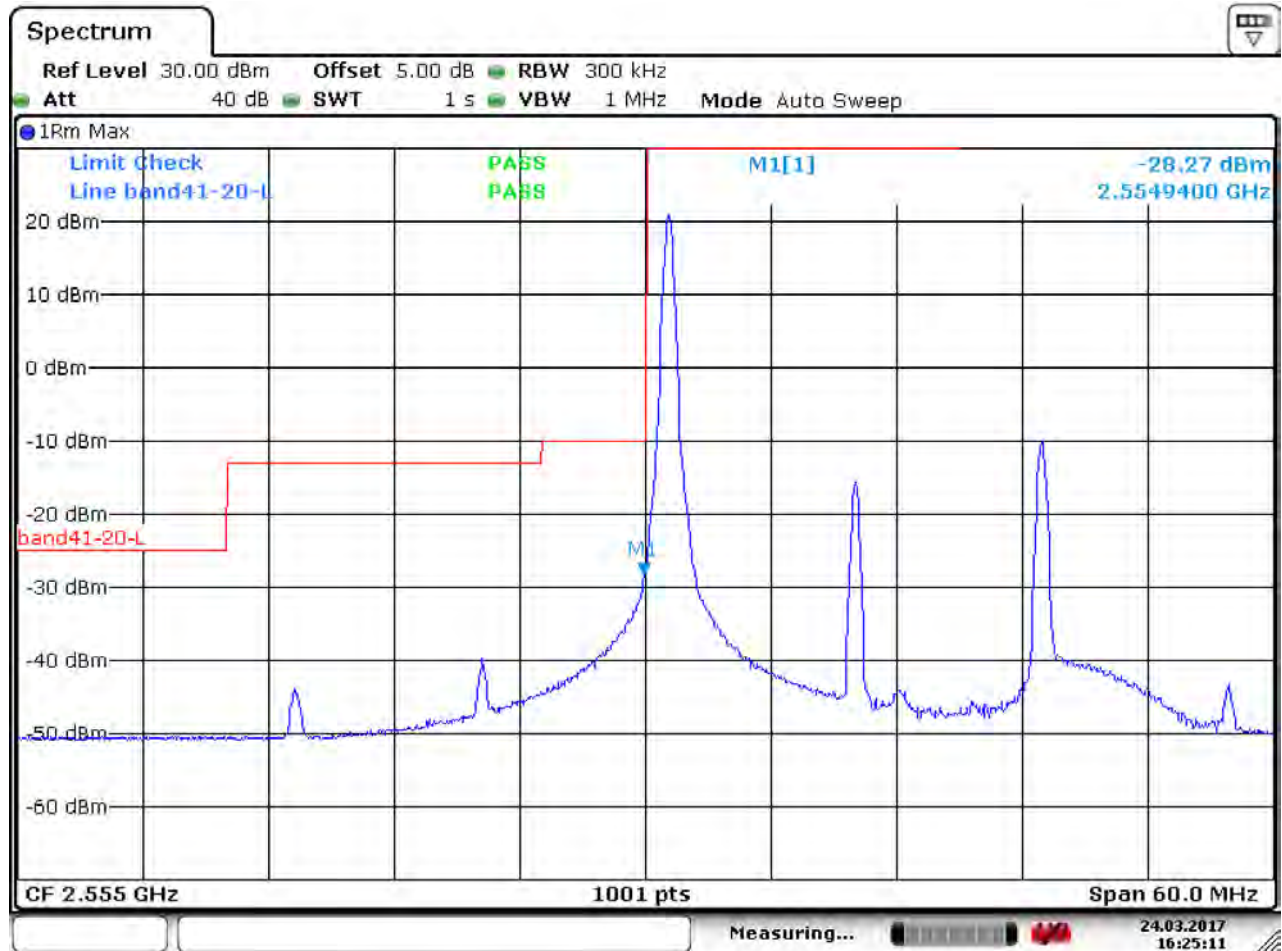
Date: 24.MAR.2017 16:21:23



5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

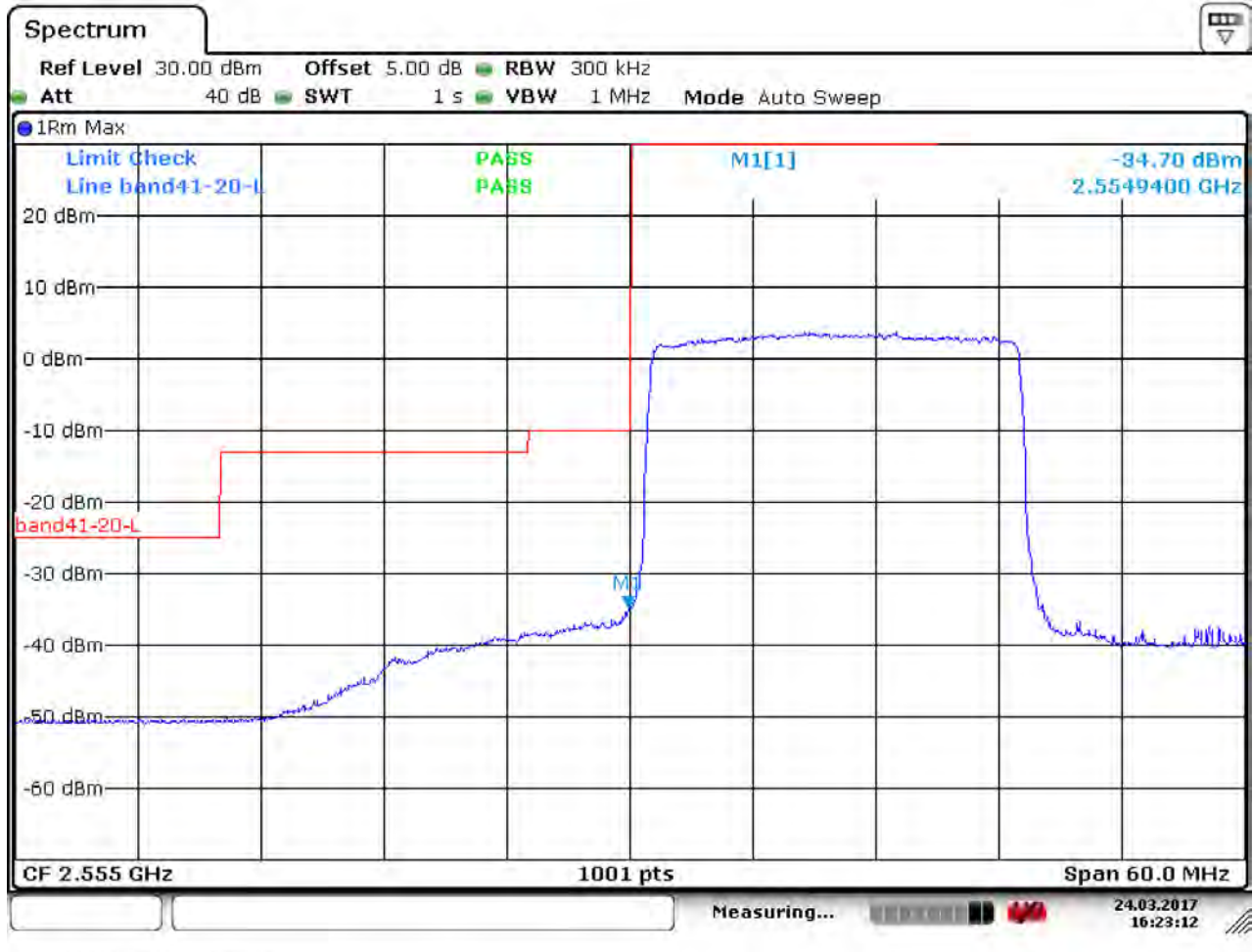
5.1.1.8.1.1 Test RB=1RB



Date: 24.MAR.2017 16:25:11



5.1.1.8.1.2 Test RB=100RB

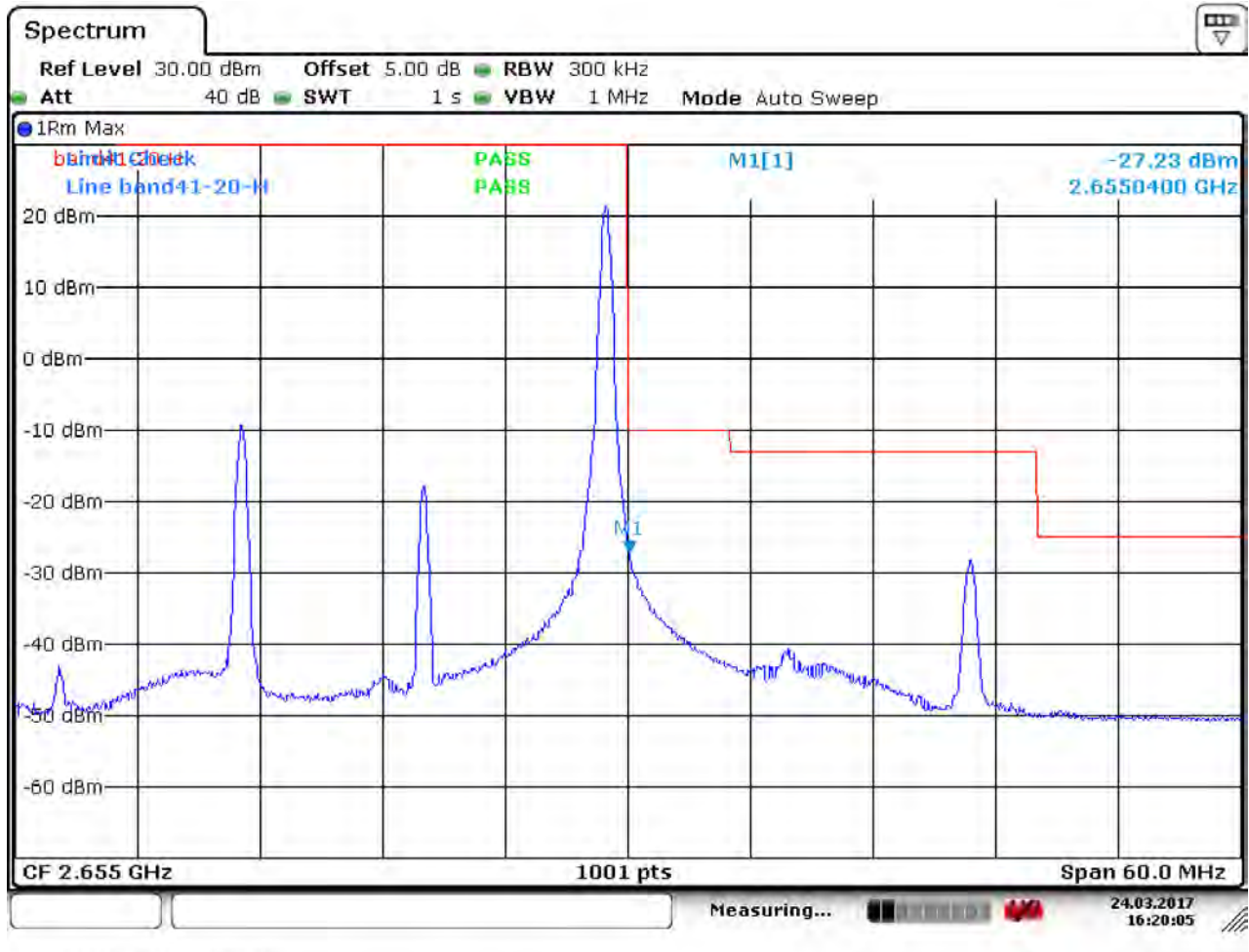


Date: 24. MAR. 2017 16:23:12



5.1.1.8.2 Test Channel = HCH

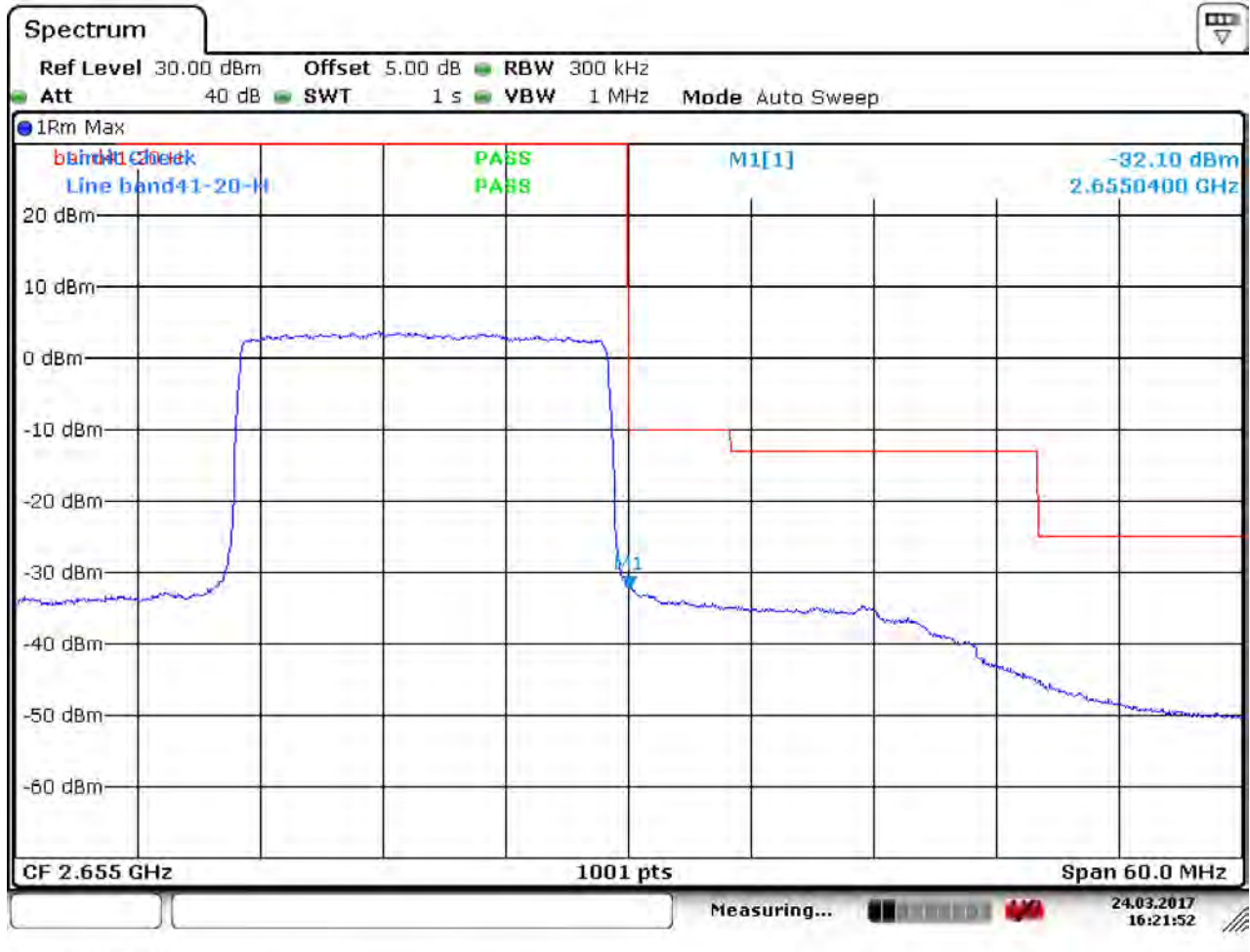
5.1.1.8.2.1 Test RB=1RB



Date: 24. MAR. 2017 16:20:06



5.1.1.8.2.2 Test RB=100RB



Date: 24. MAR. 2017 16:21:52



## 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.

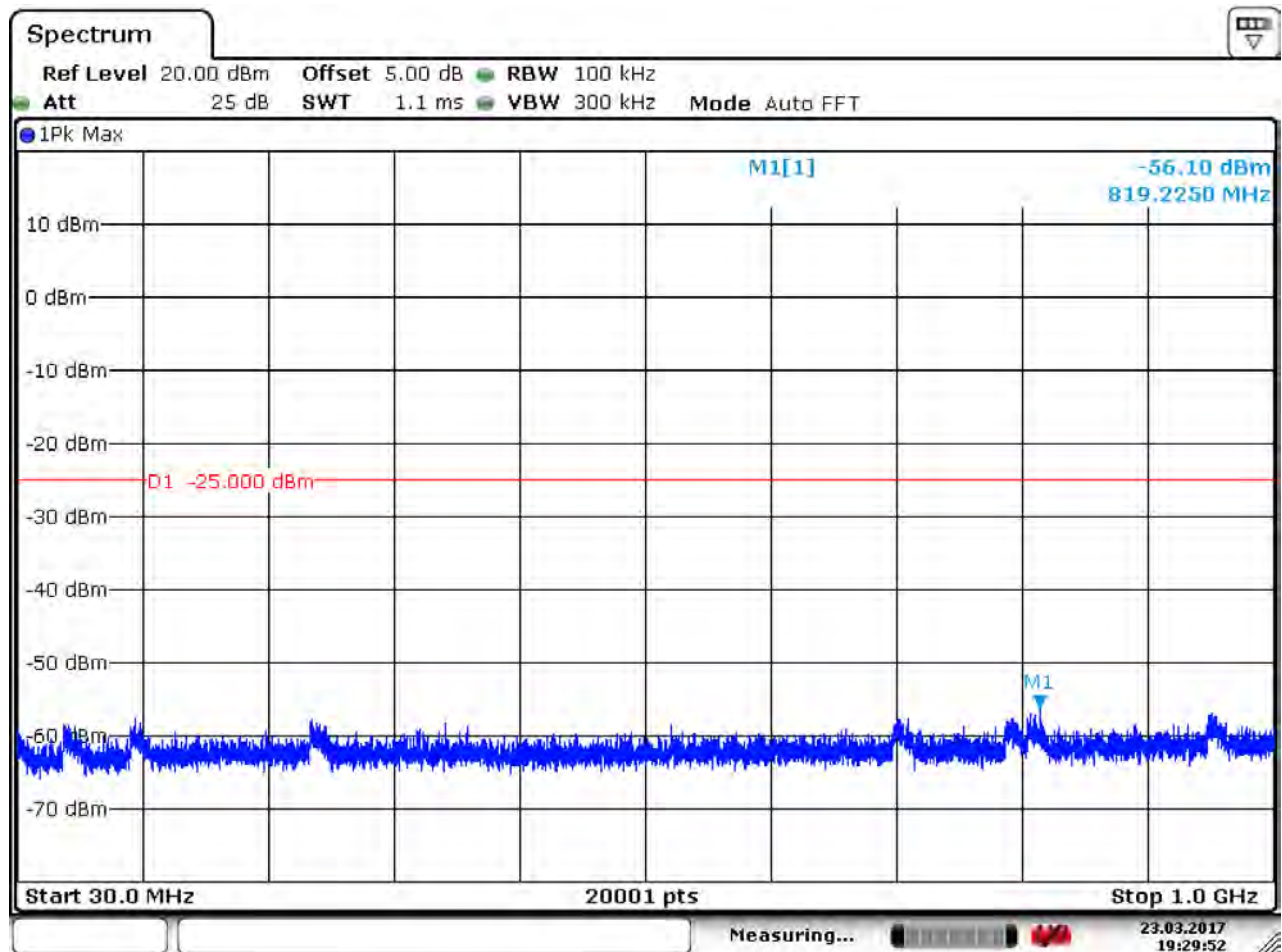
Part I - Test Plots

### 6.1 For LTE

#### 6.1.1 Test Band = LTE band41

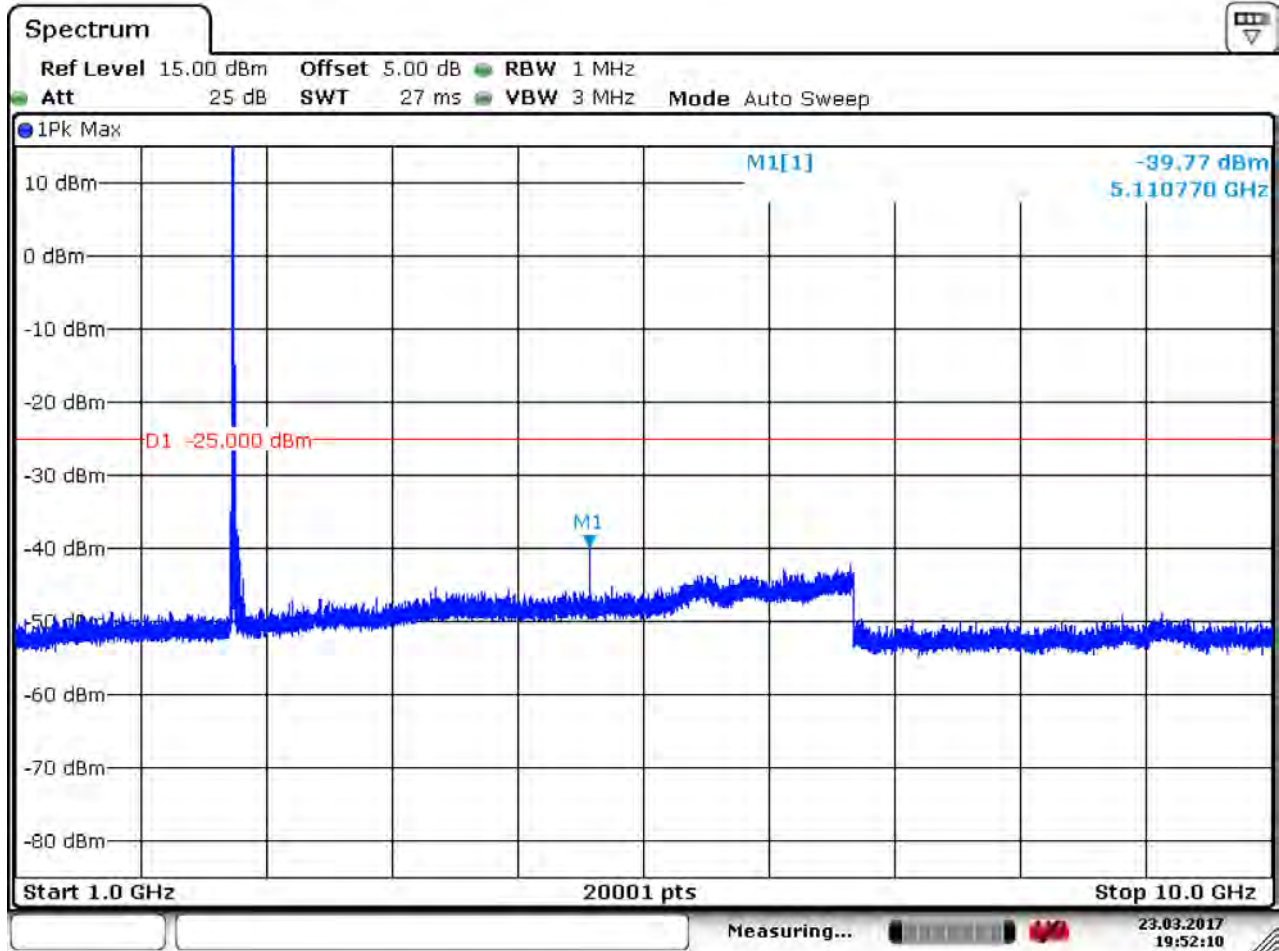
##### 6.1.1.1 Test Mode = LTE / TM1 5MHz RB1#0

##### 6.1.1.1.1 Test Channel = LCH



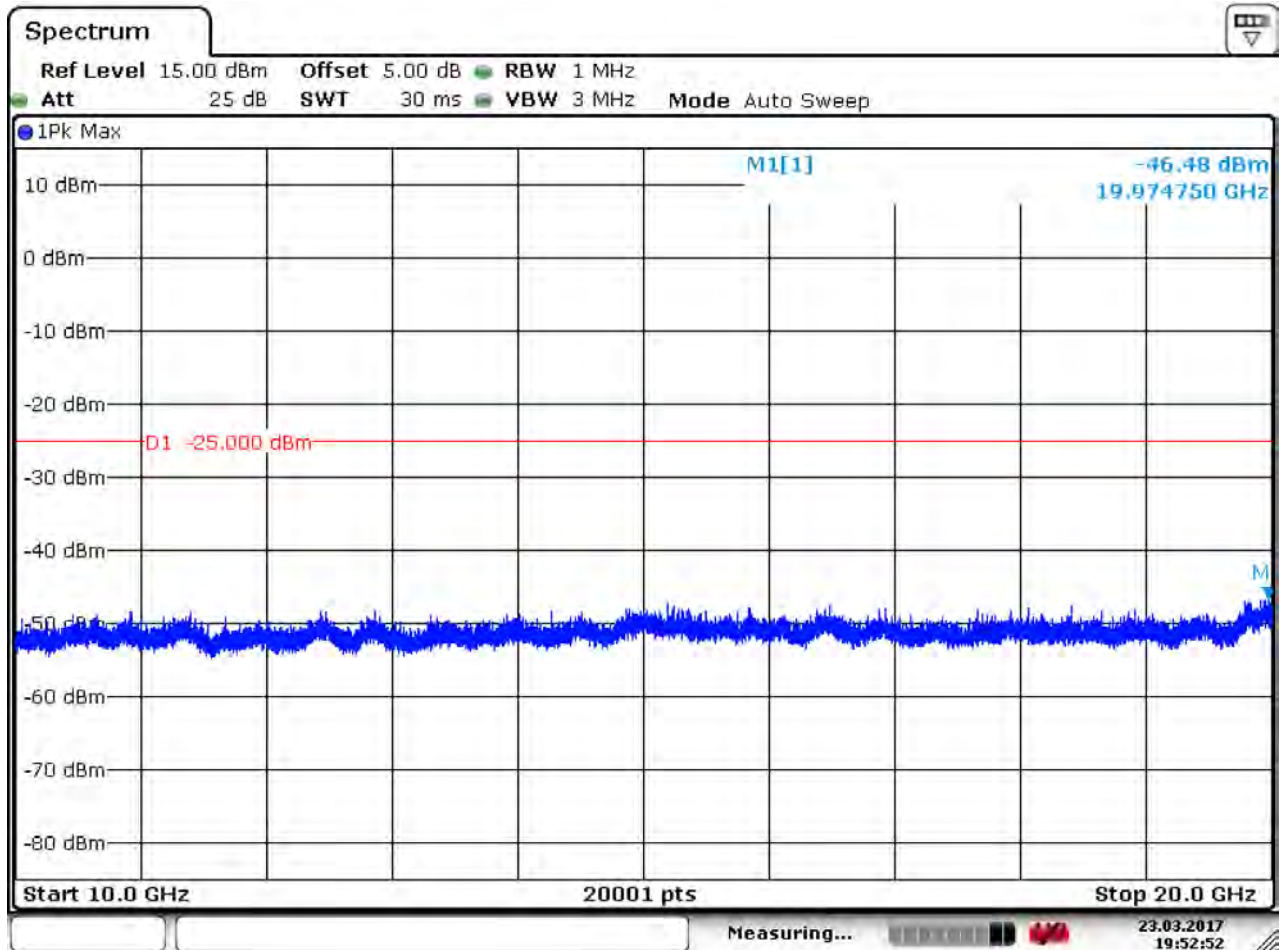
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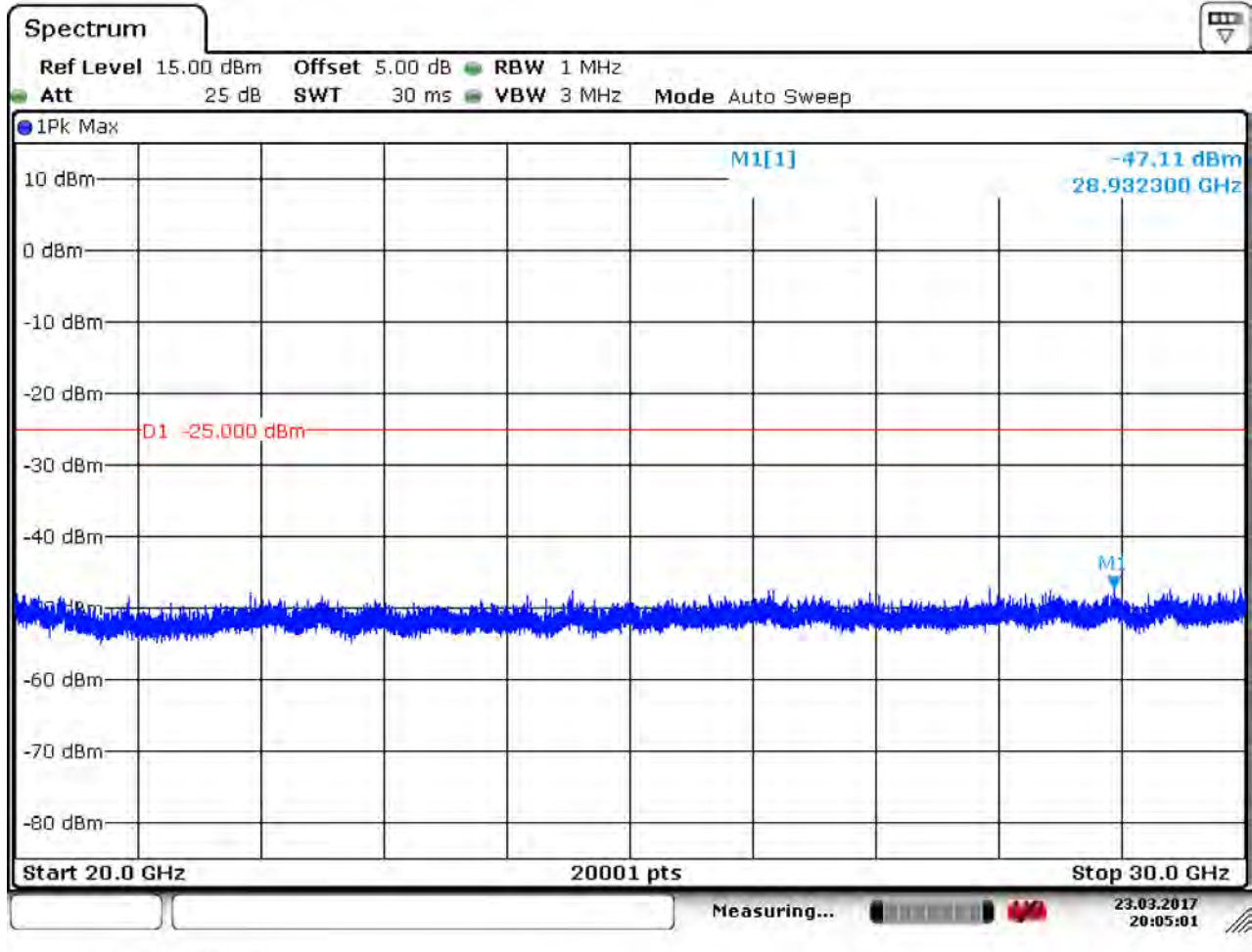
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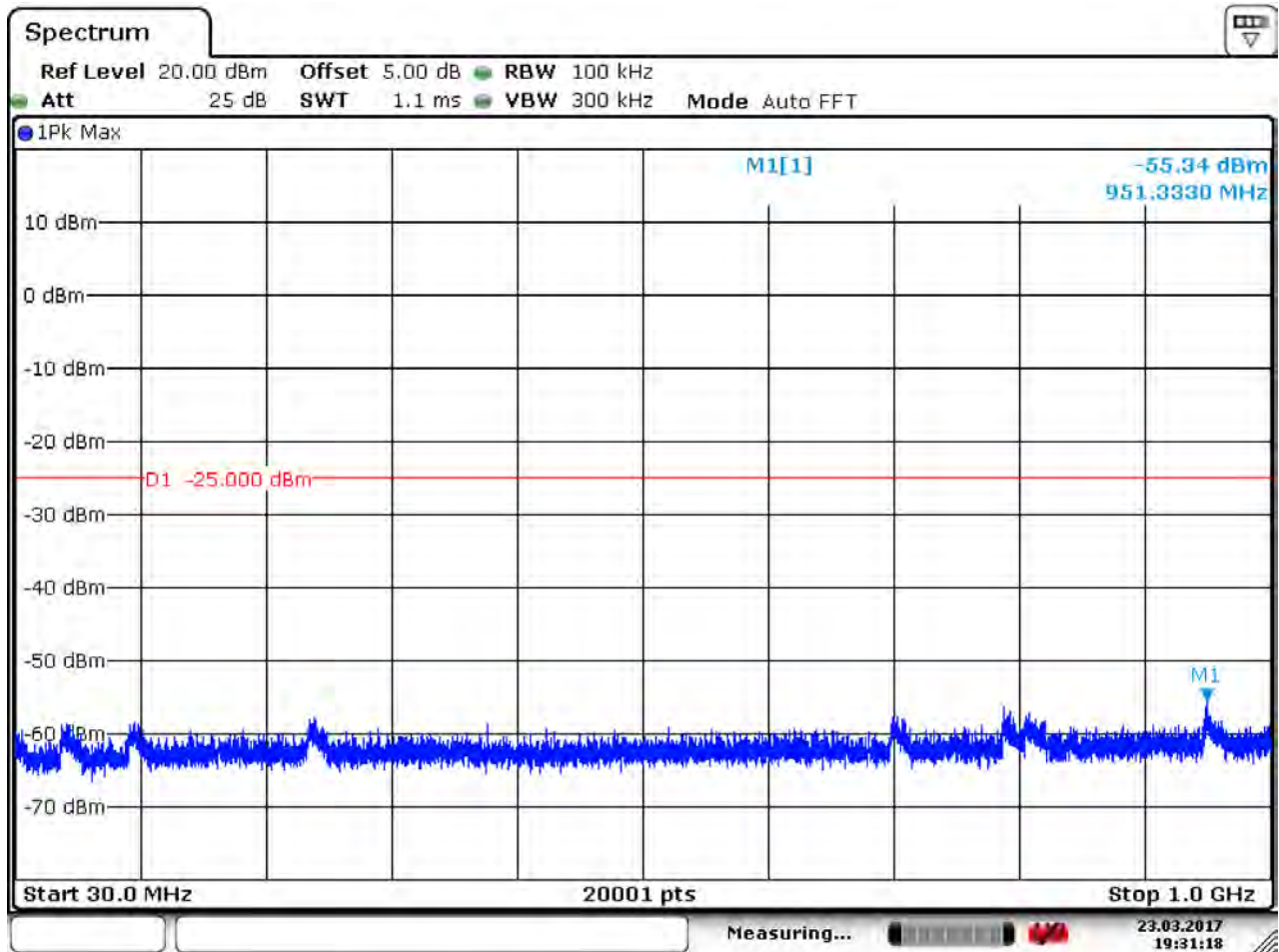


Date: 23.MAR.2017 20:05:01

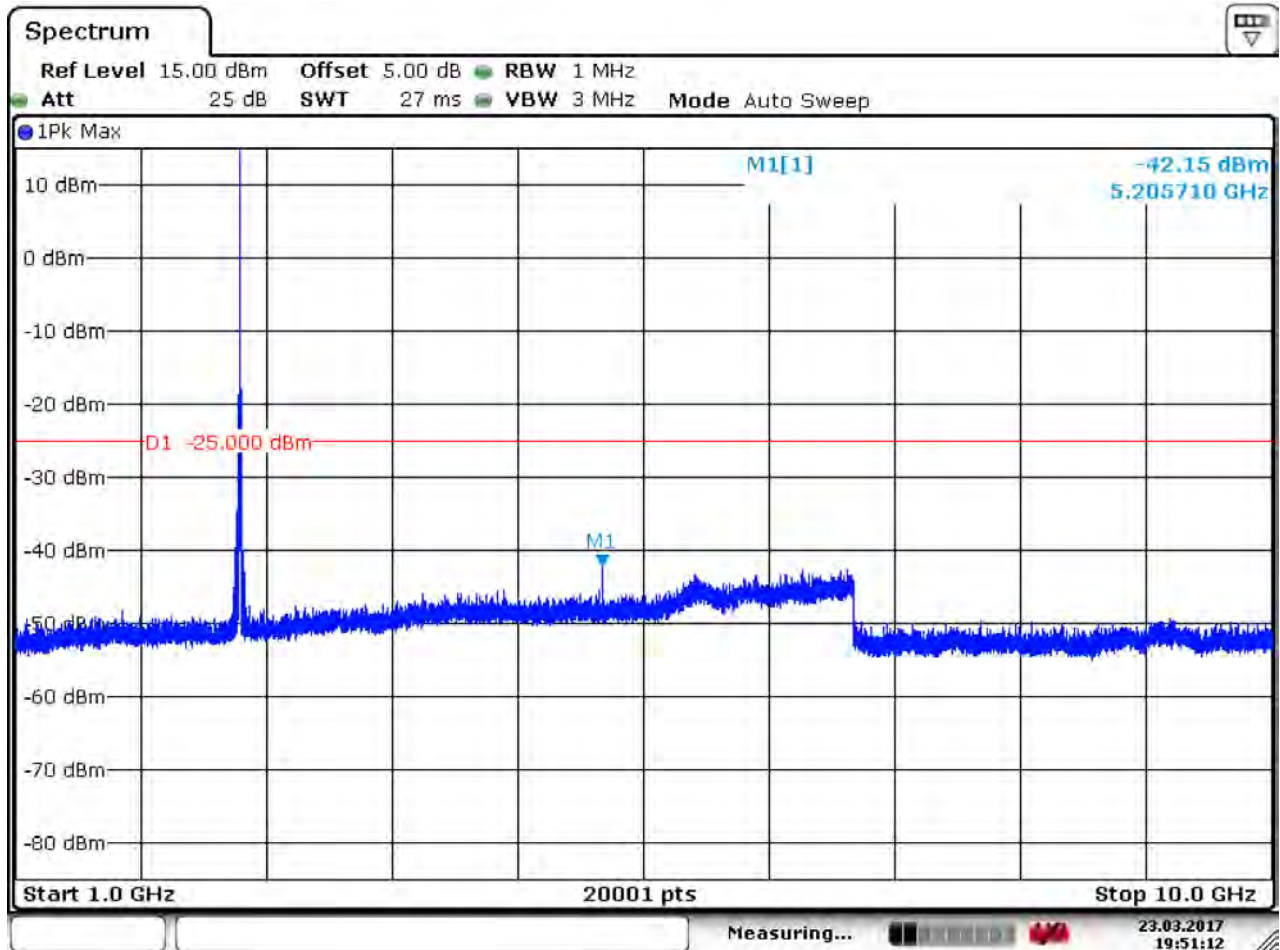
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6.1.1.1.2 Test Channel = MCH



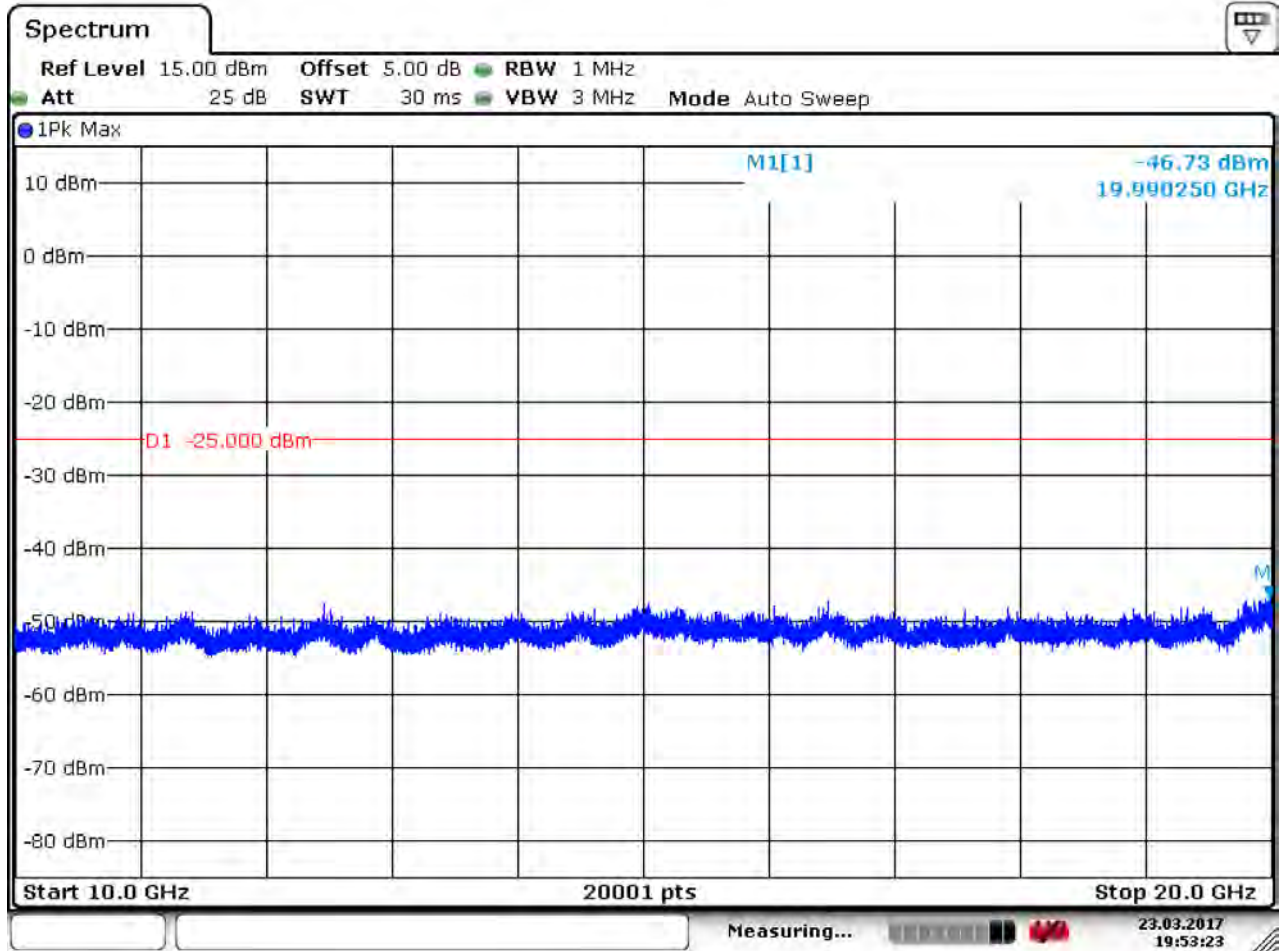
Date: 23.MAR.2017 19:31:18



Date: 23.MAR.2017 19:51:12

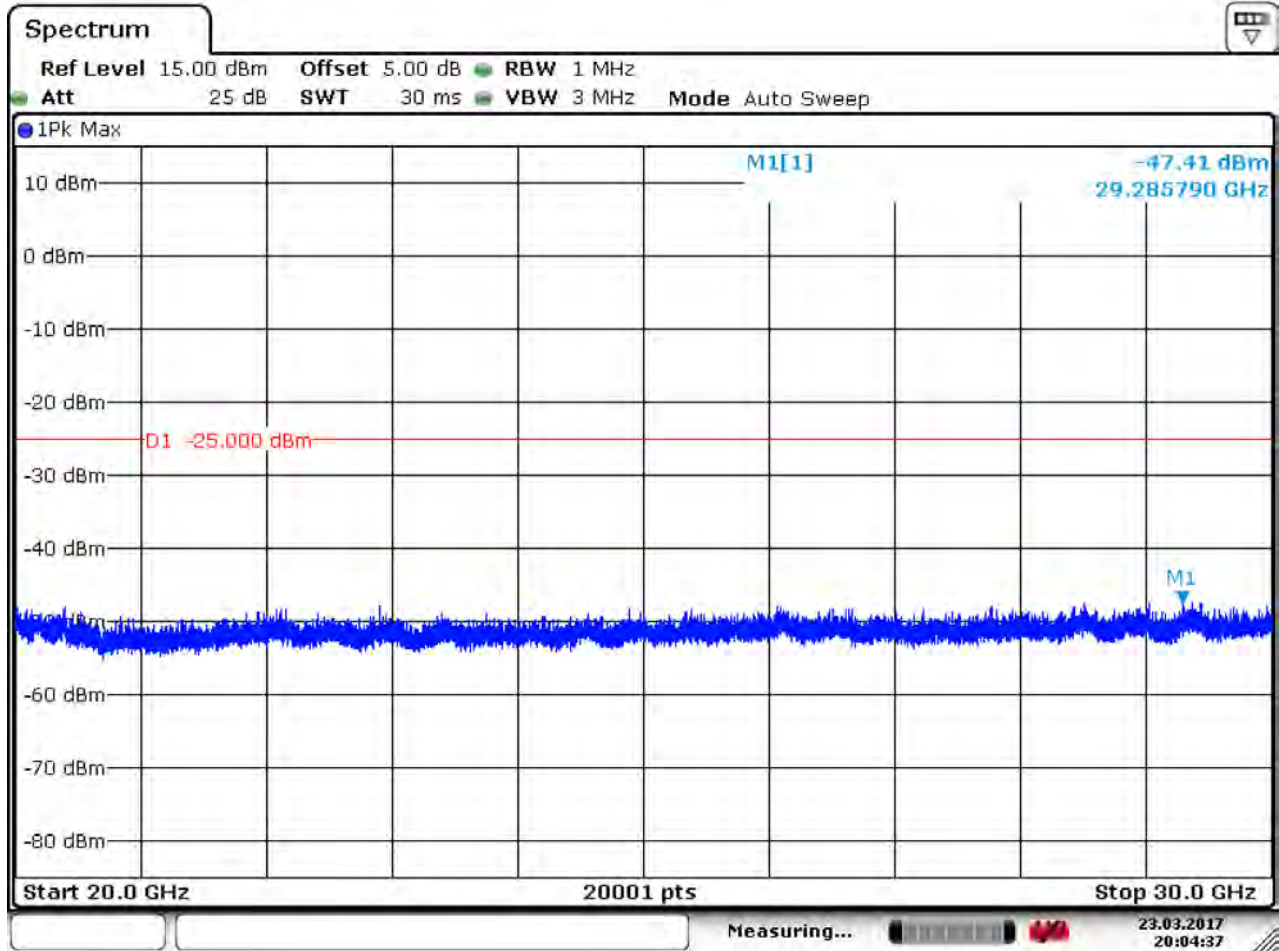
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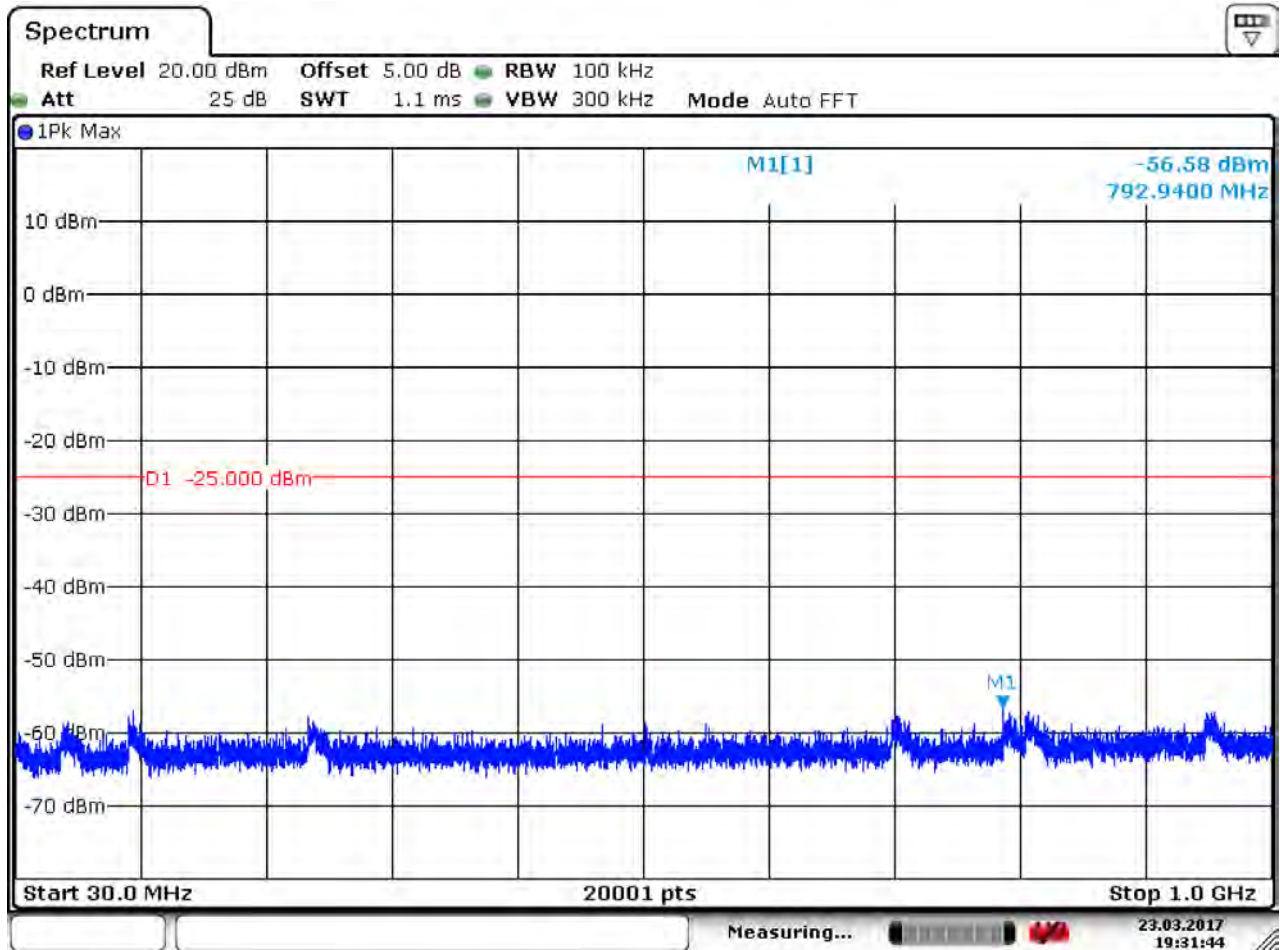


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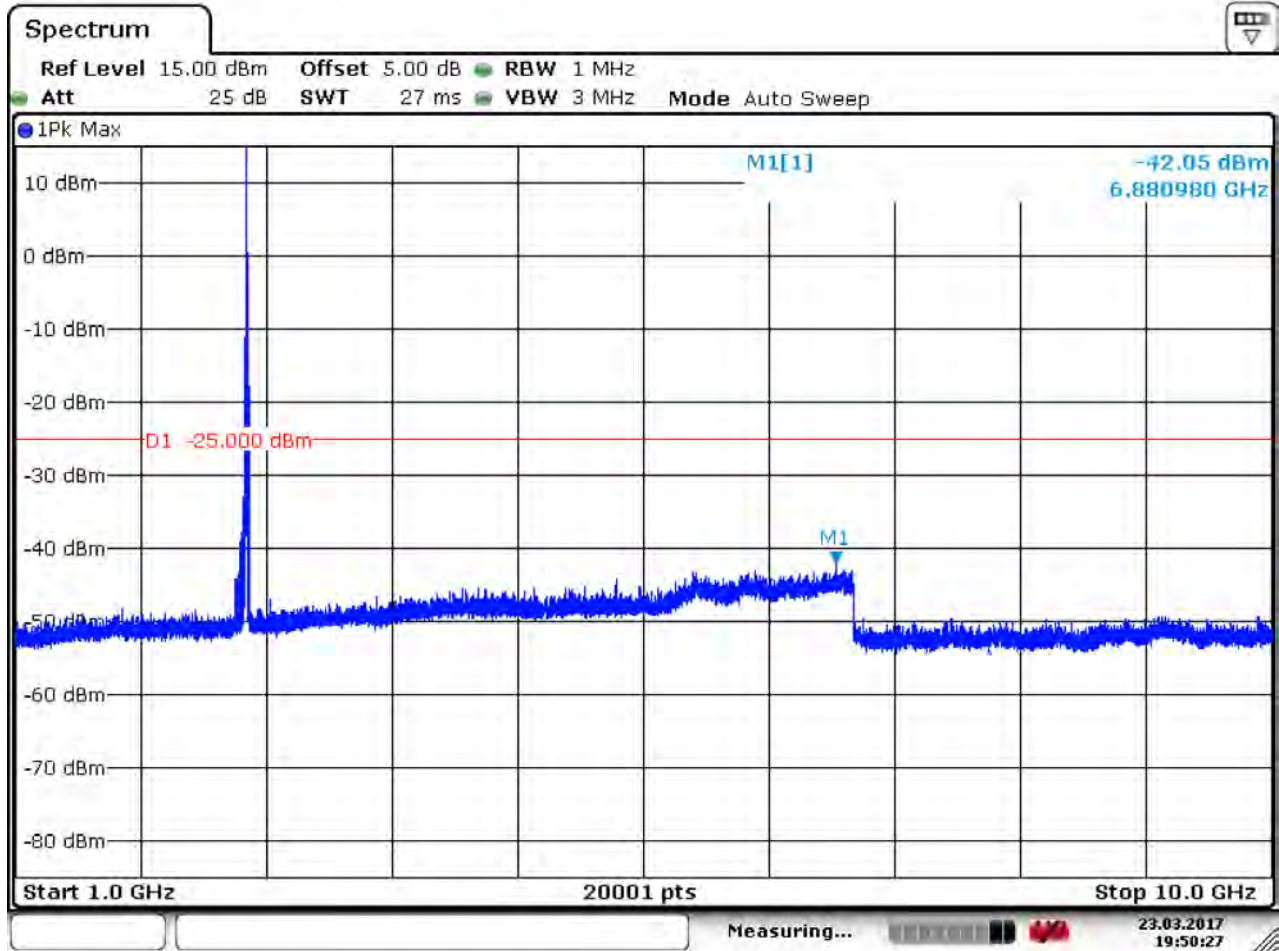
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6.1.1.1.3 Test Channel = HCH

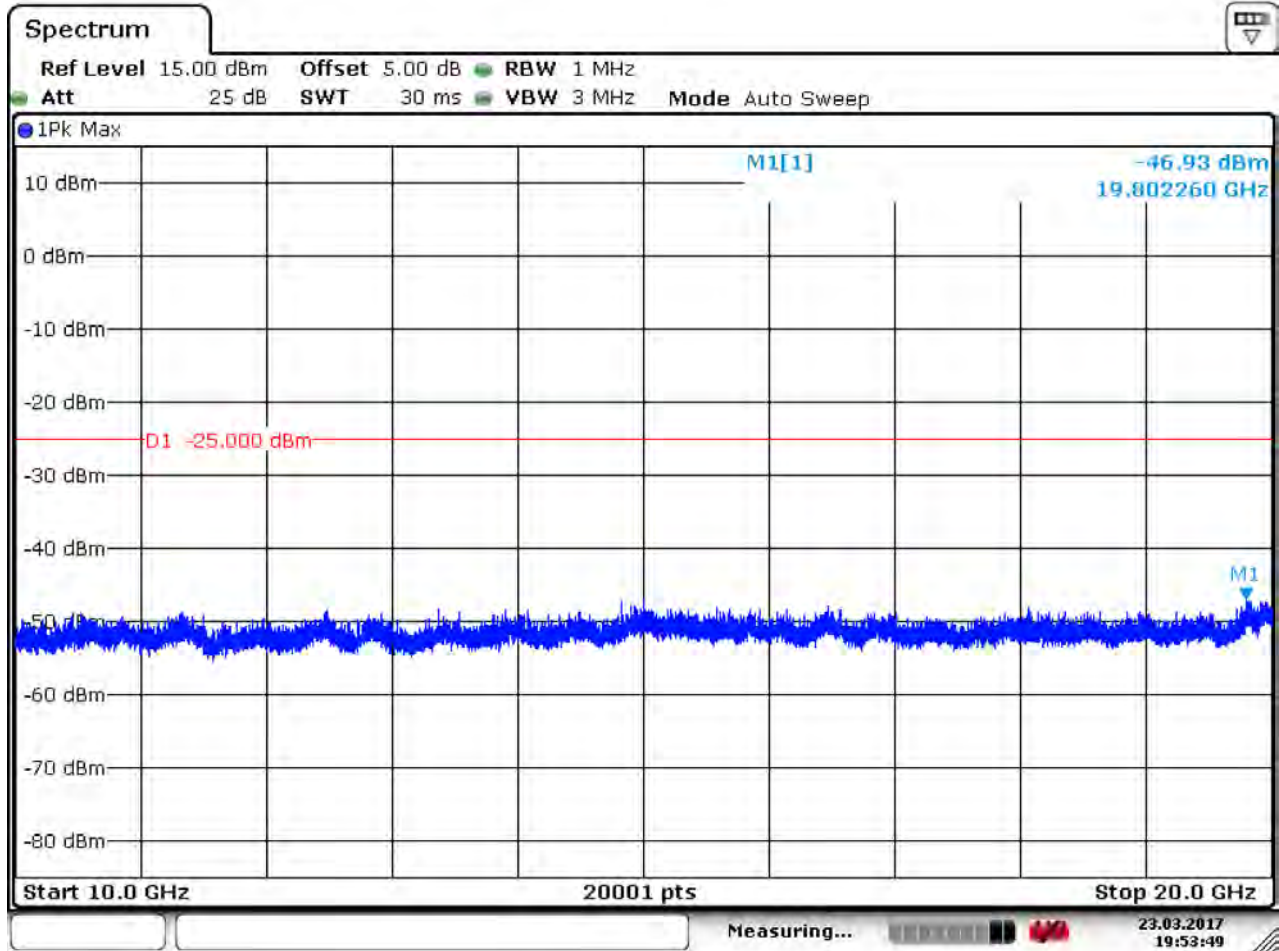


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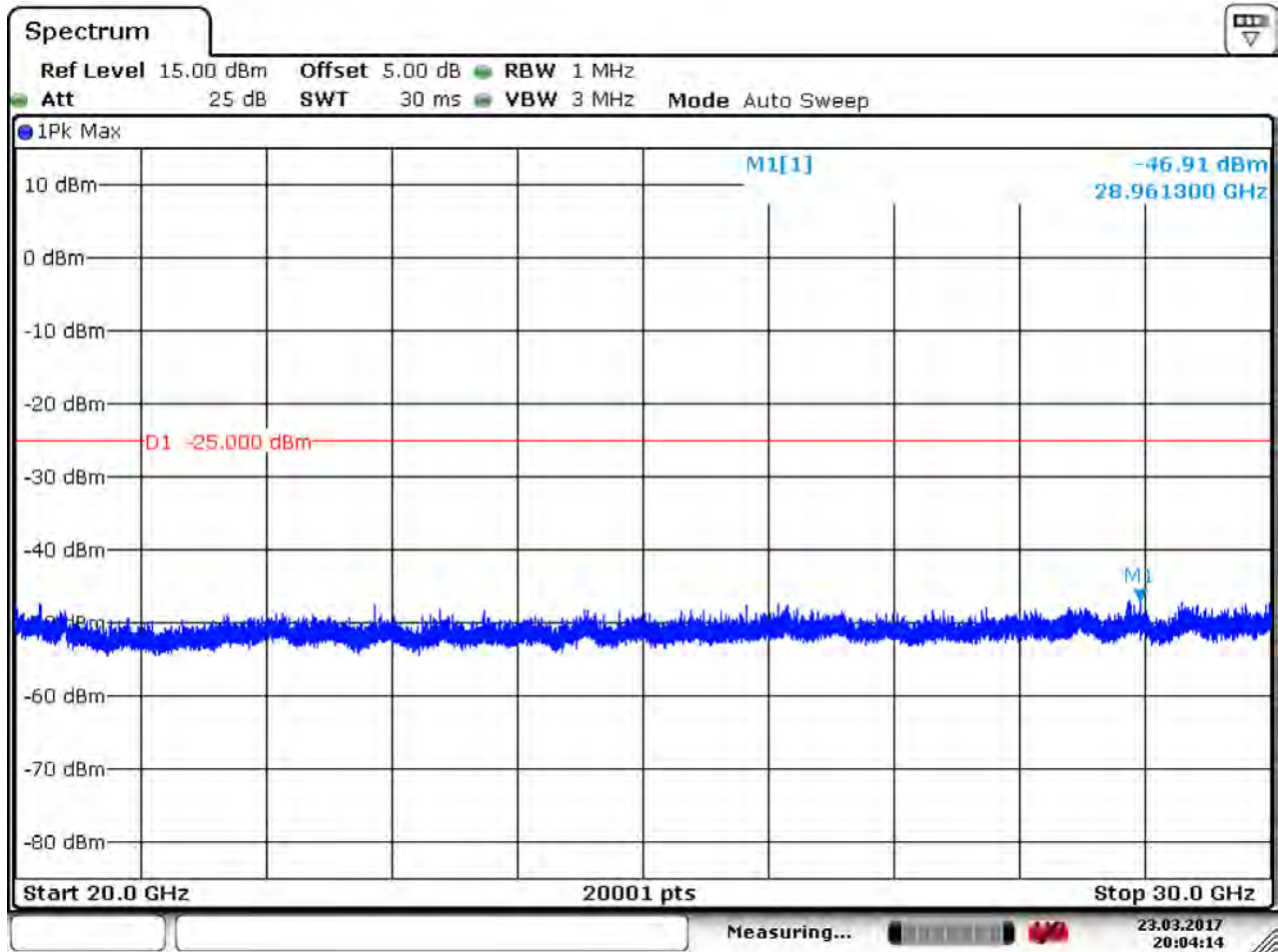
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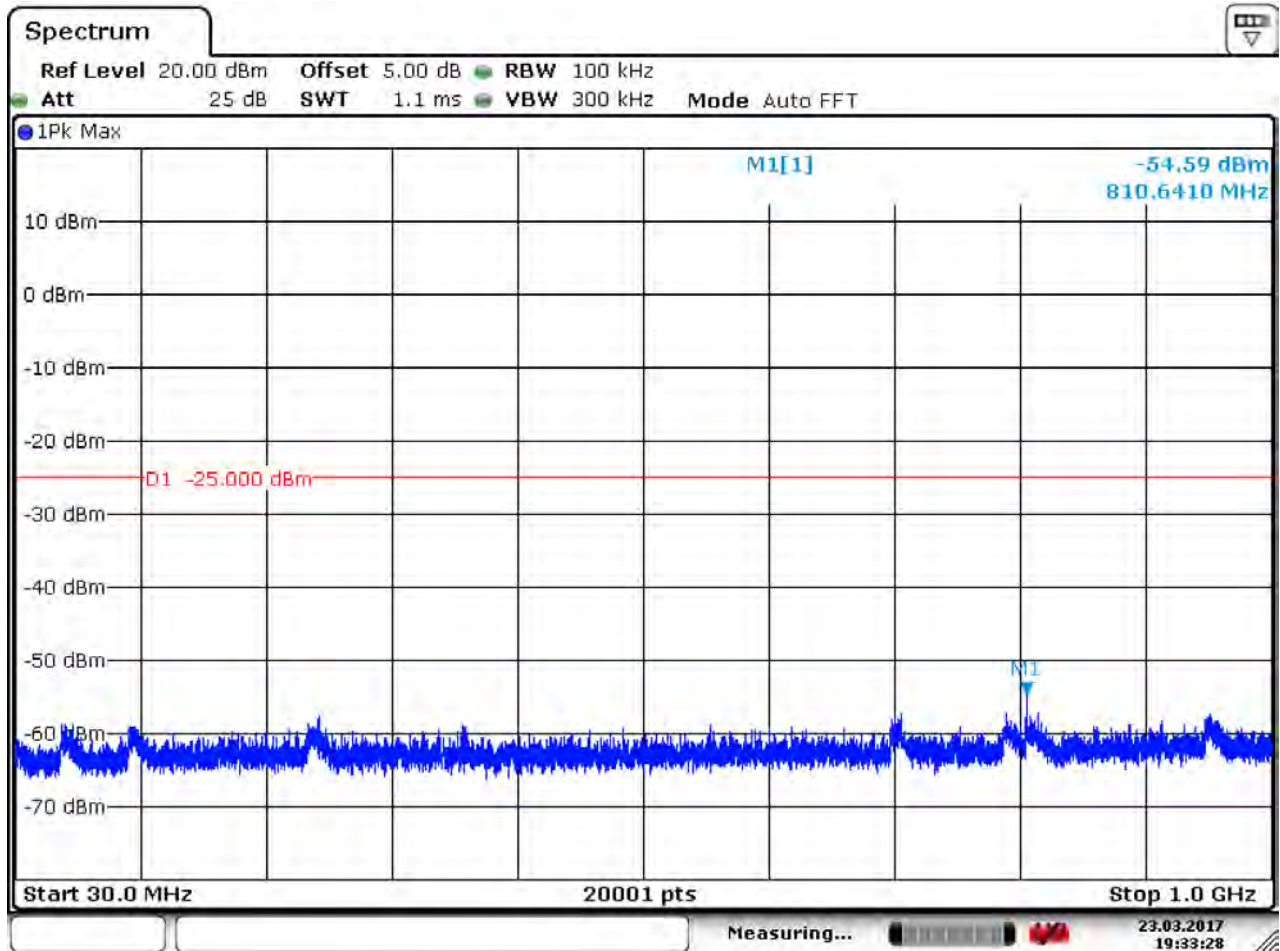
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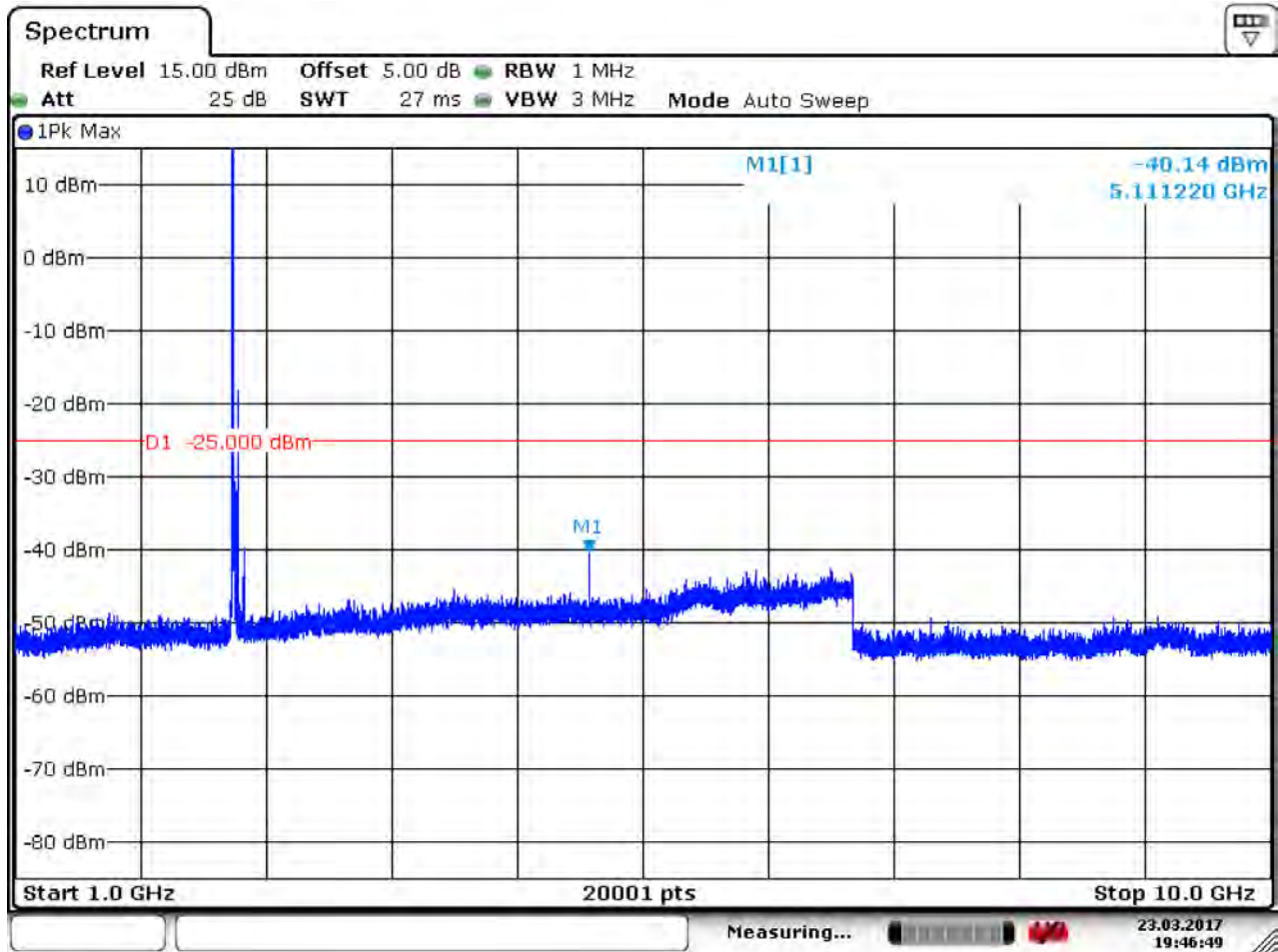


6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



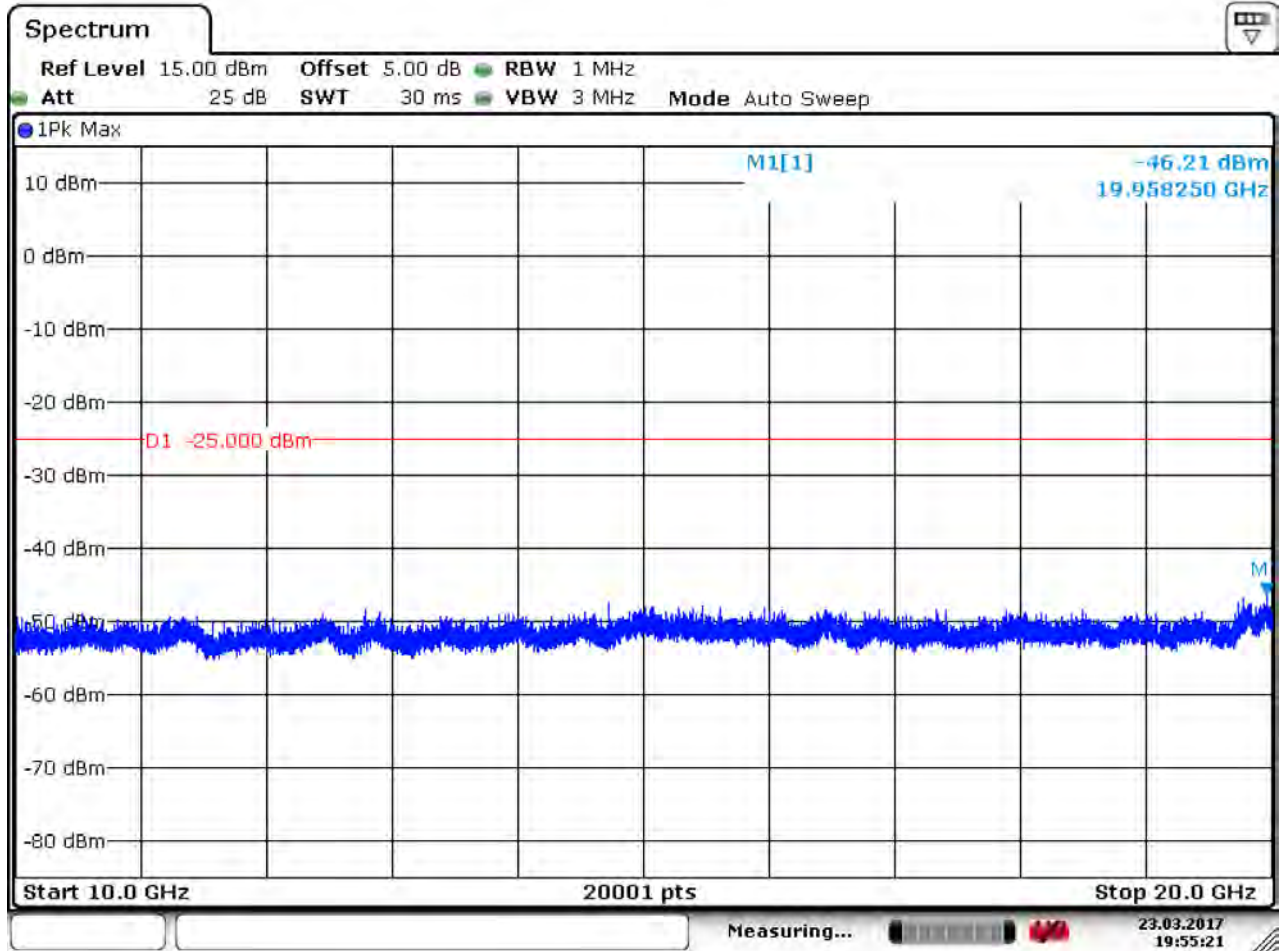
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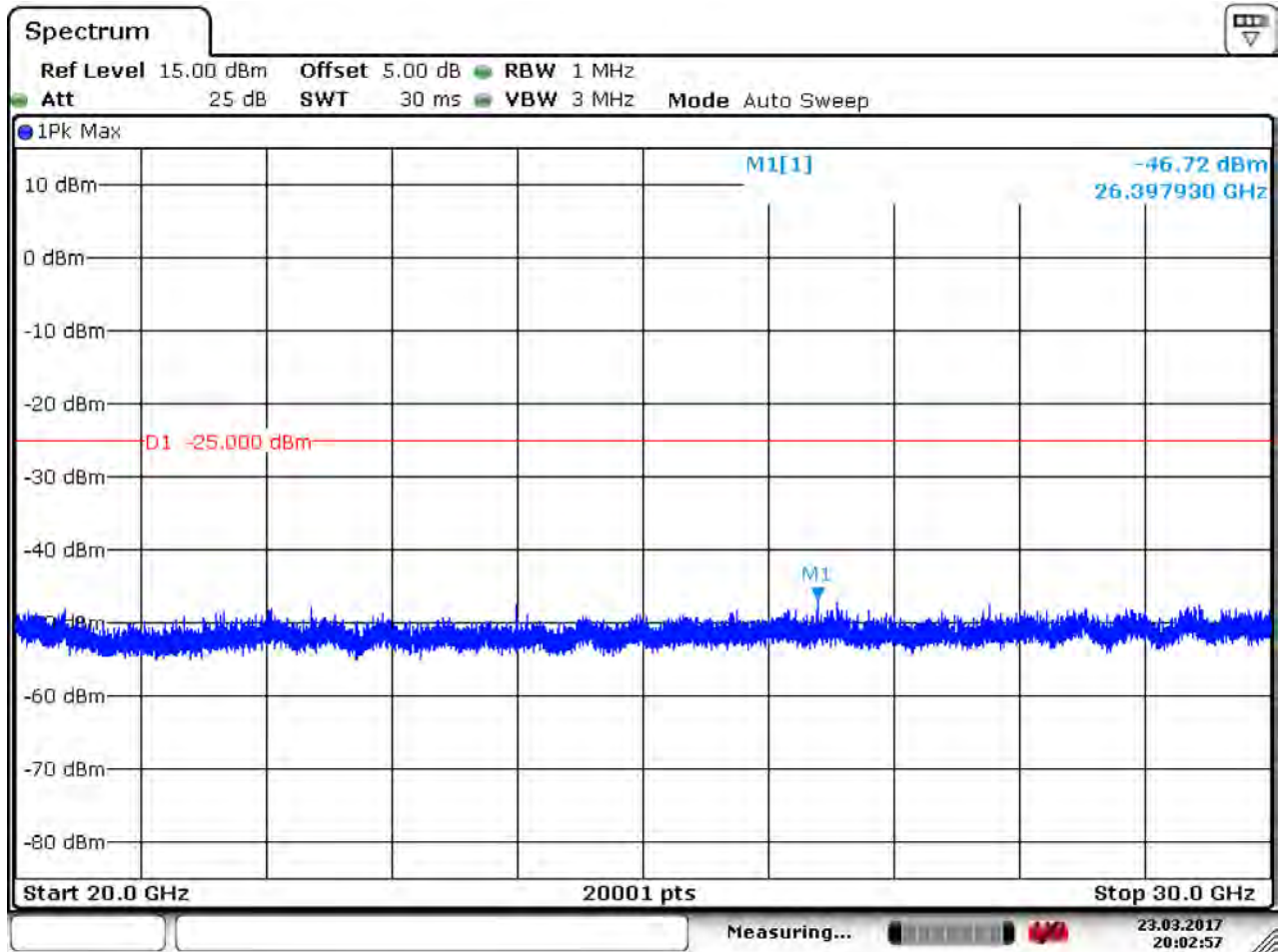
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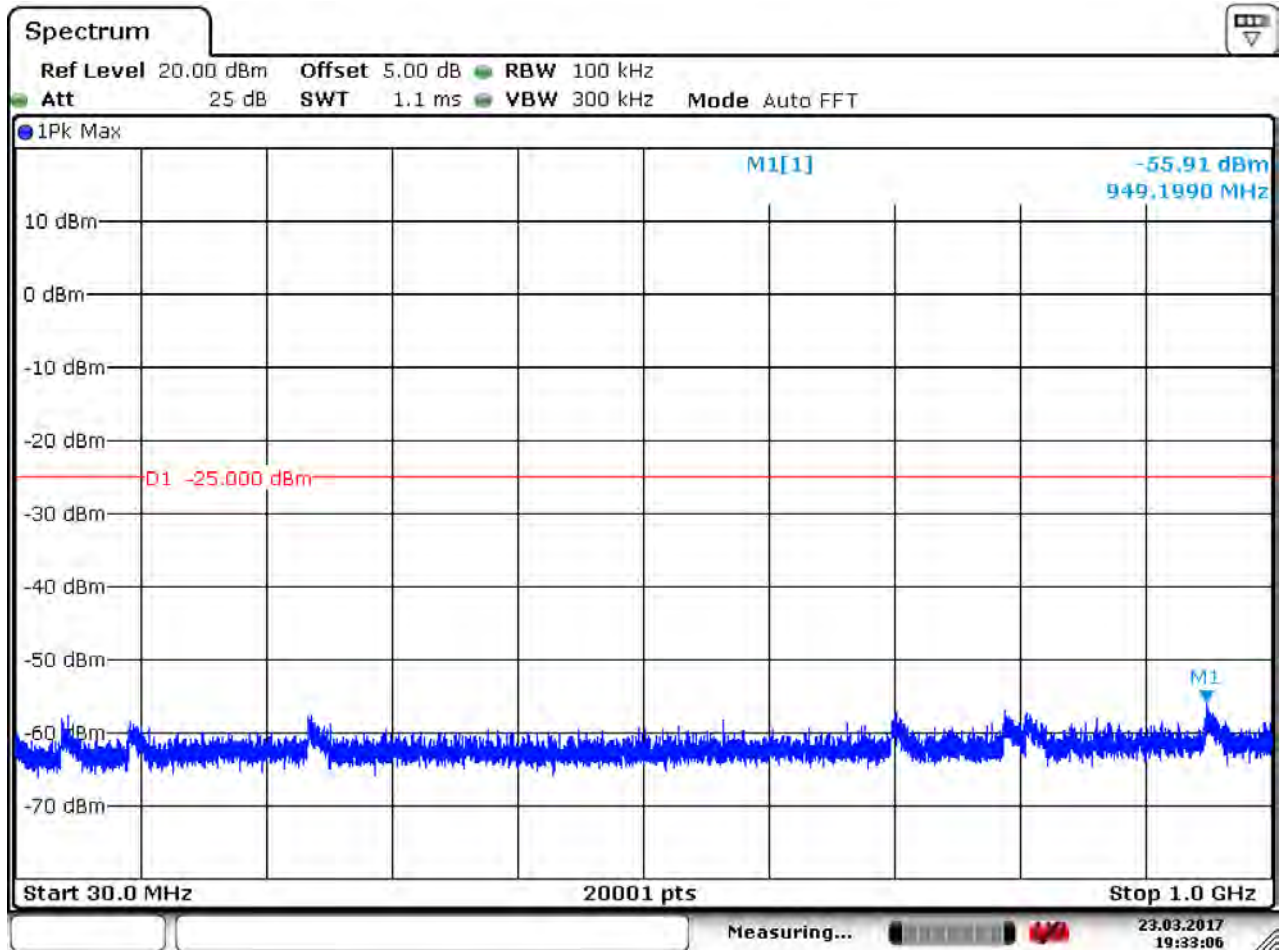


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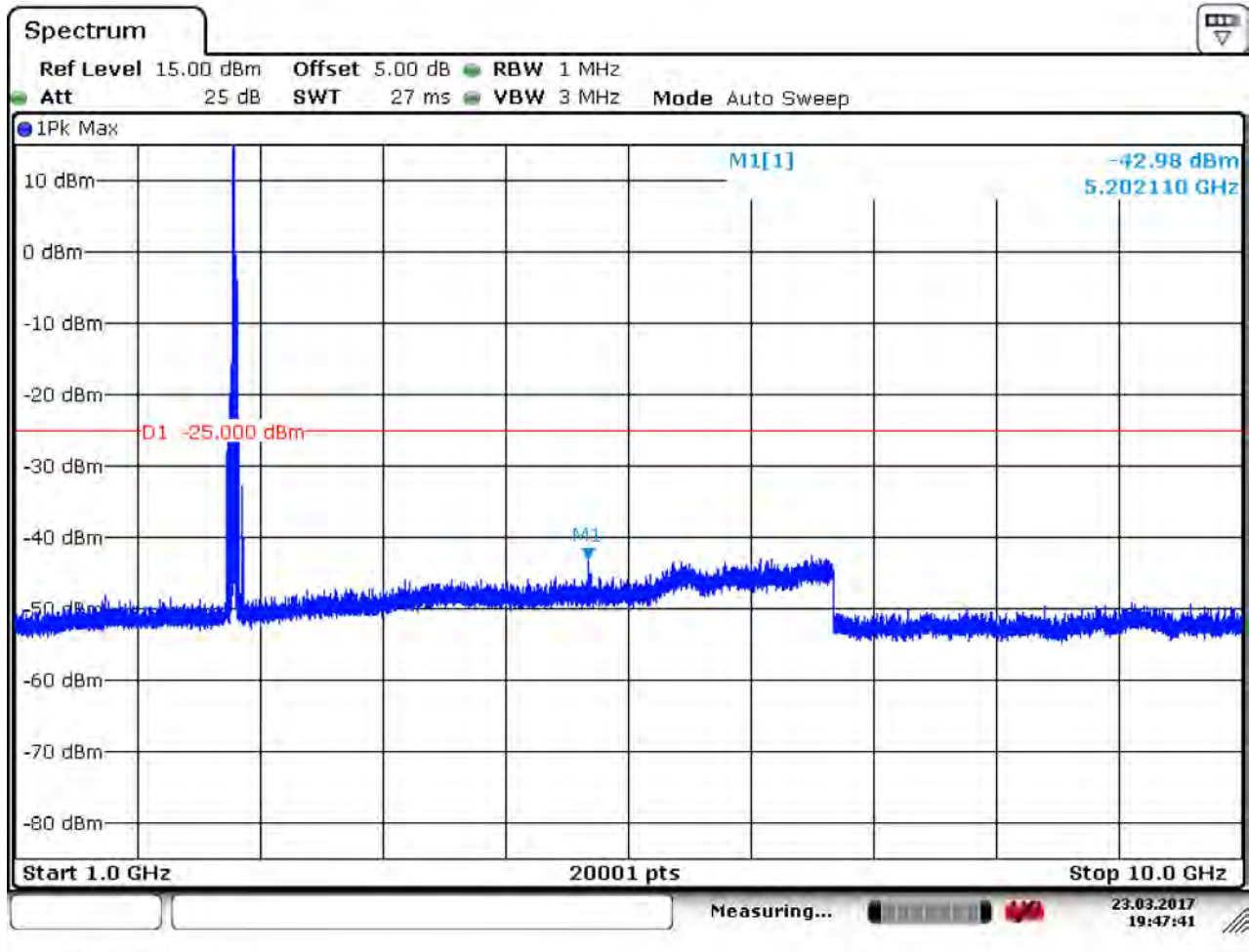
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6.1.1.2.2 Test Channel = MCH

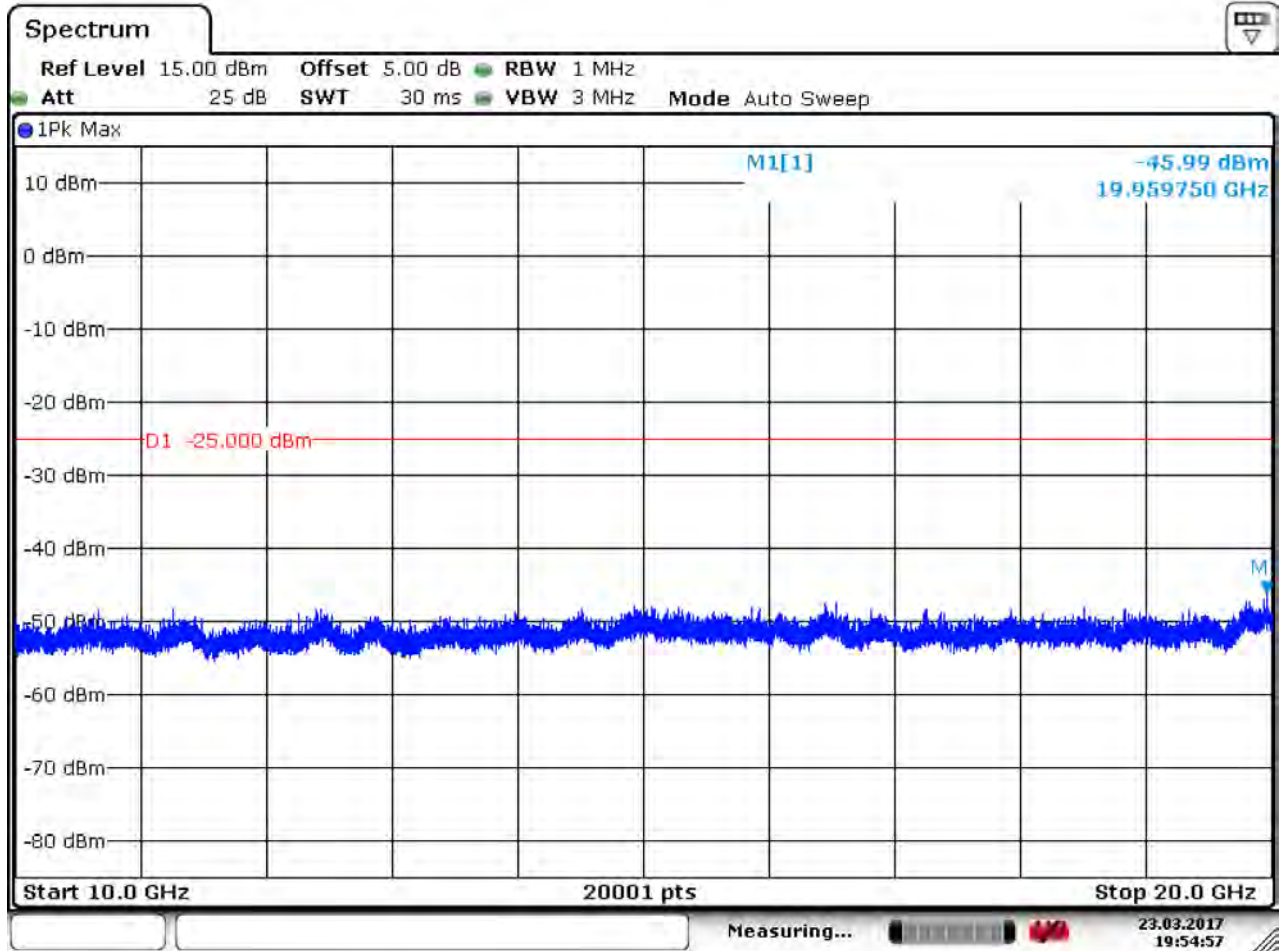


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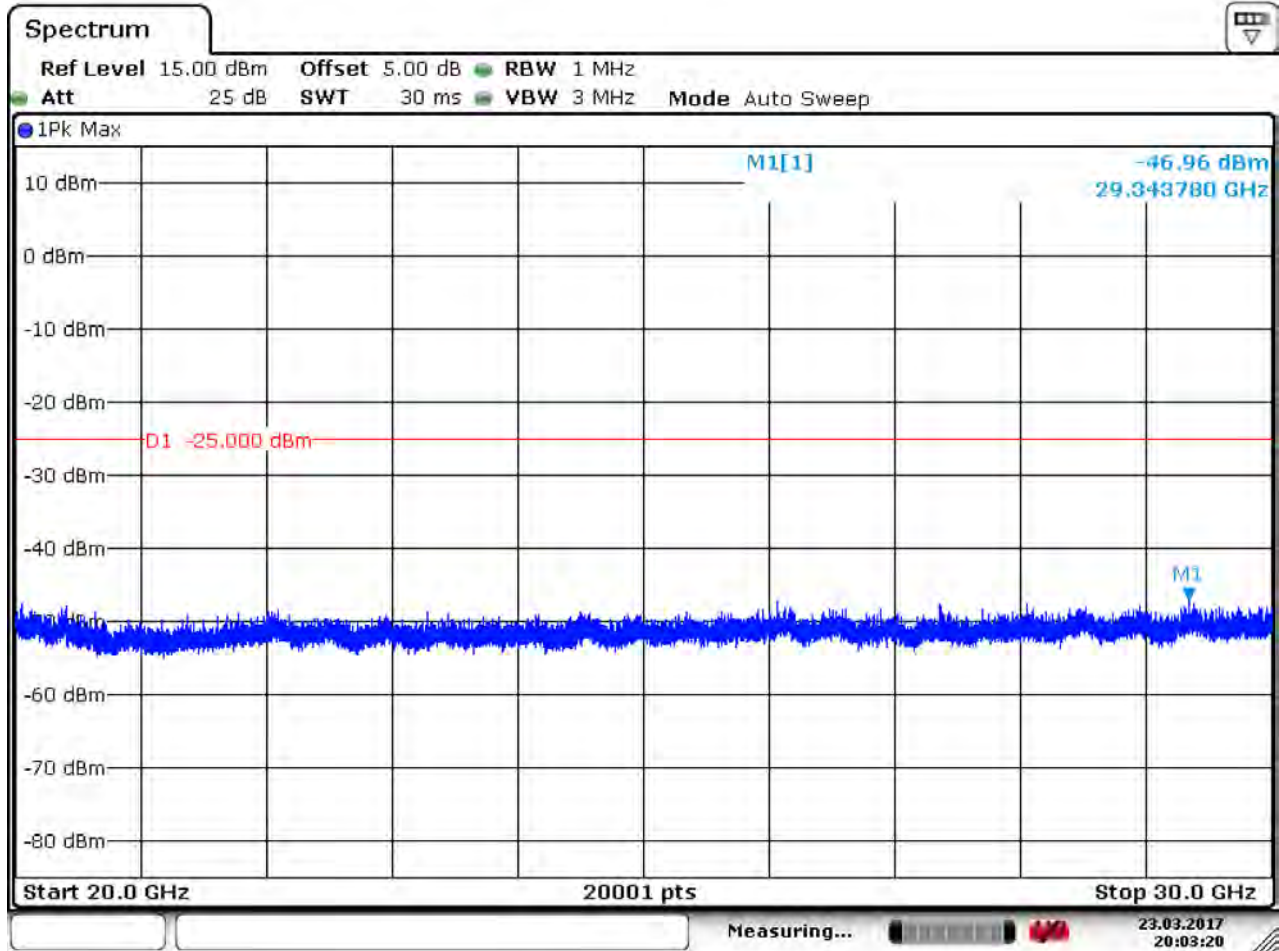
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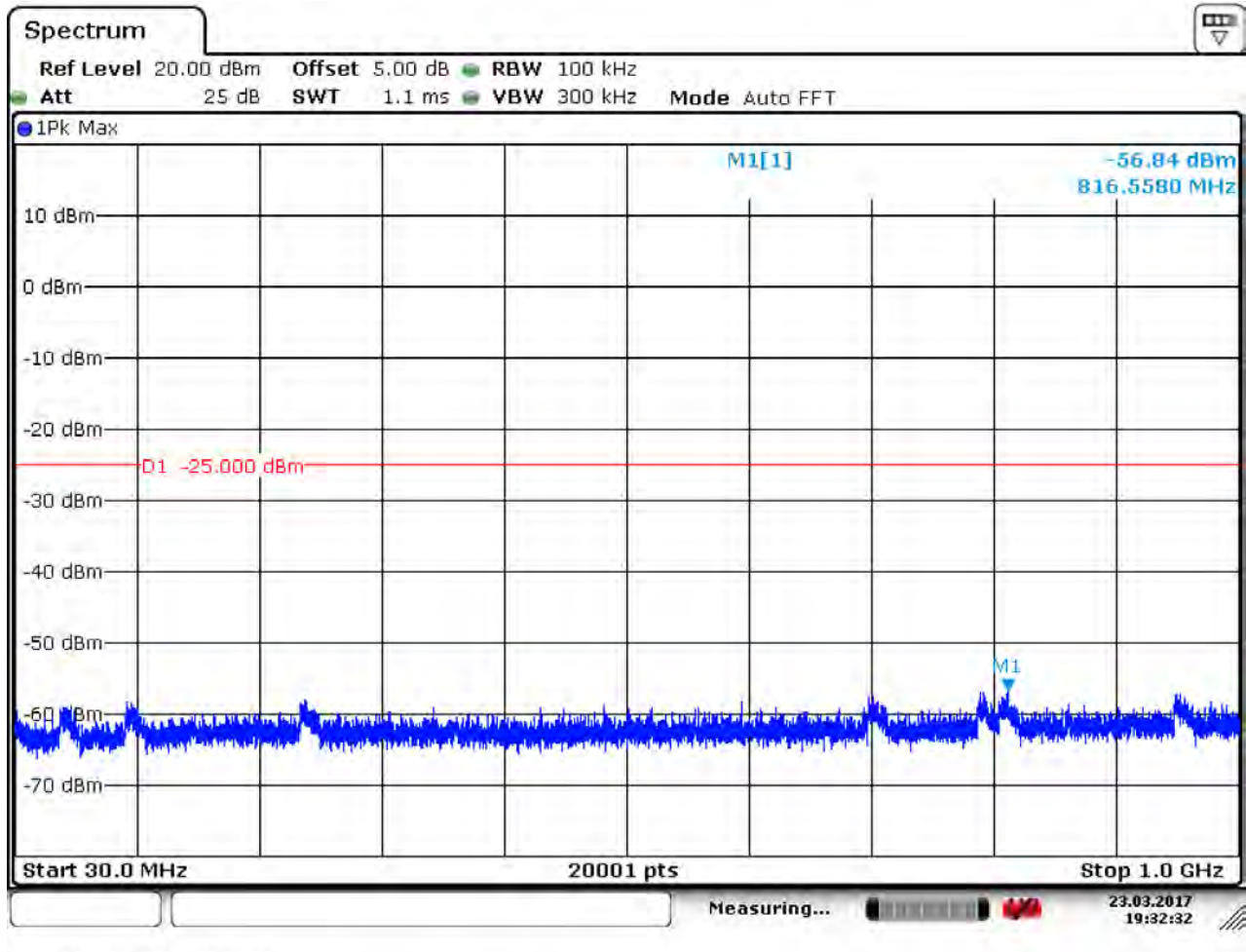


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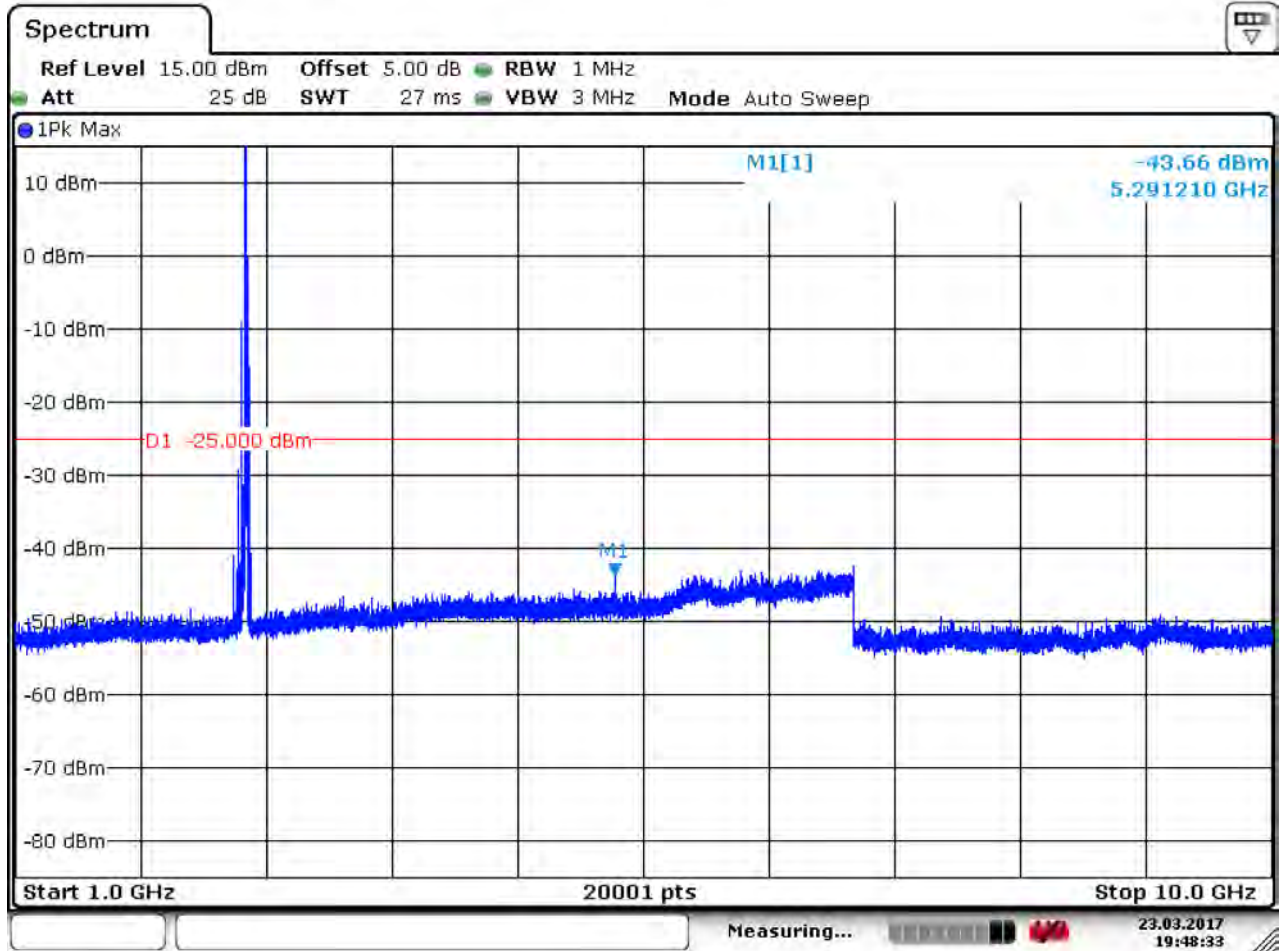


6.1.1.2.3 Test Channel = HCH



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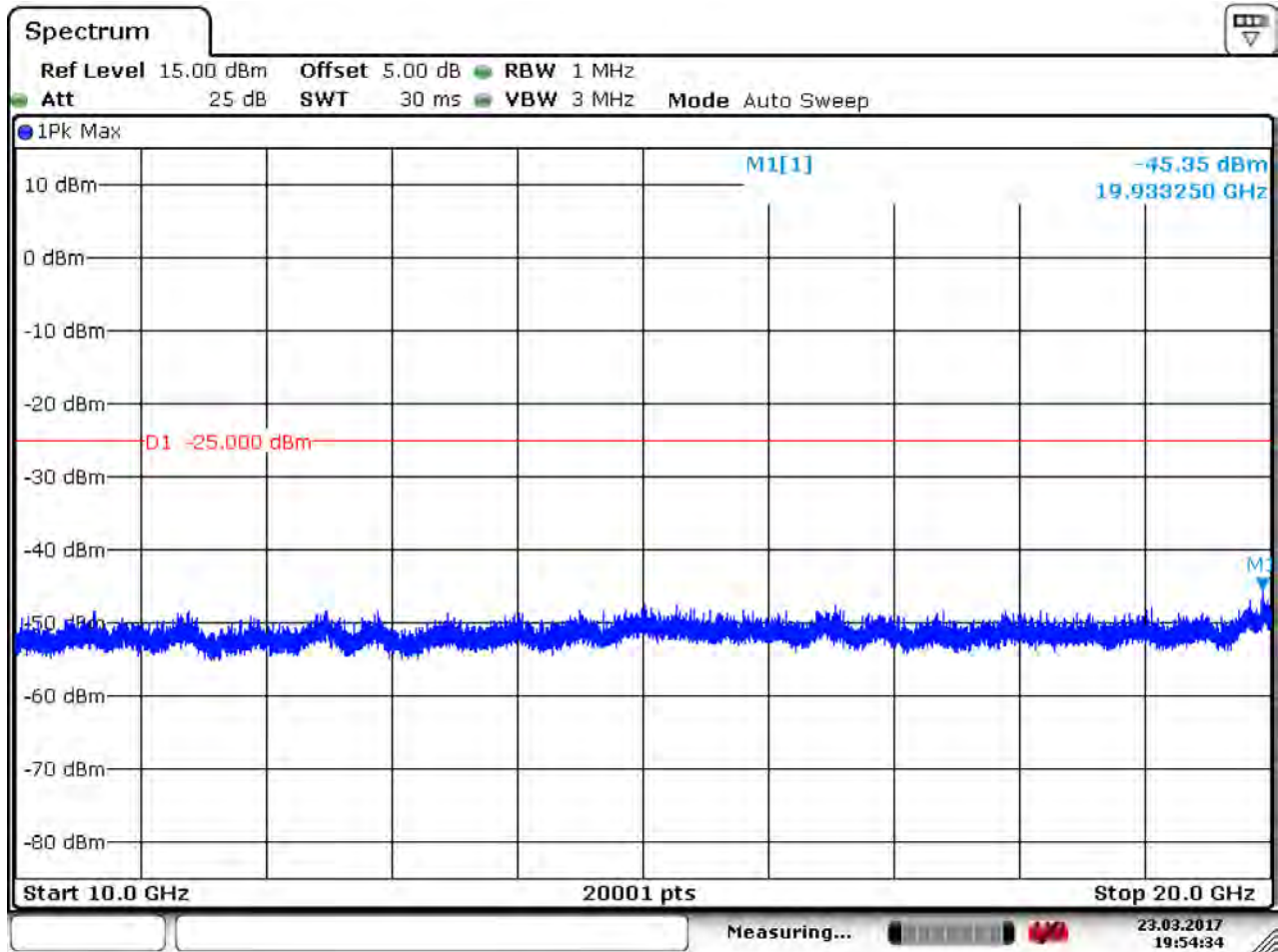
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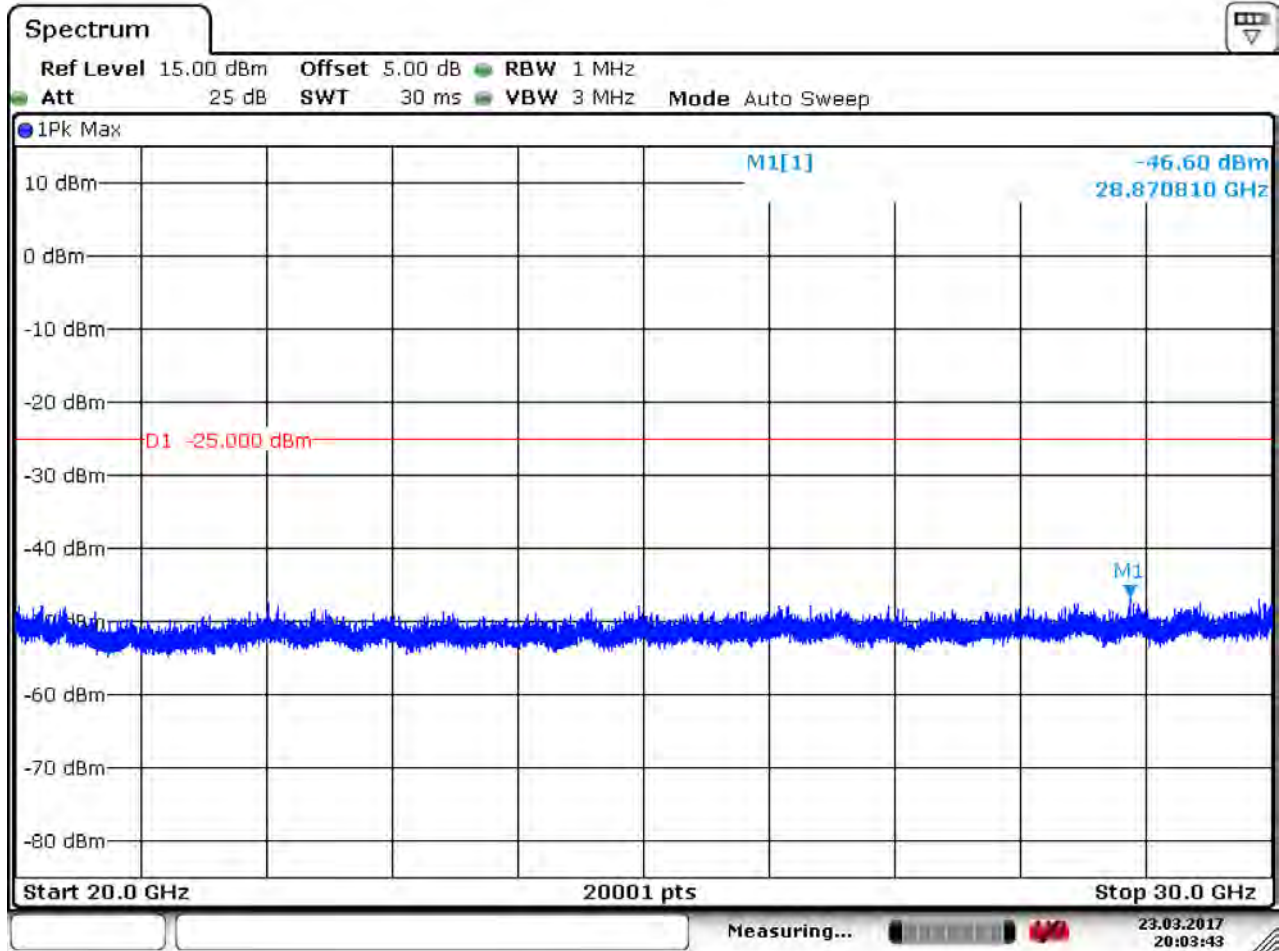
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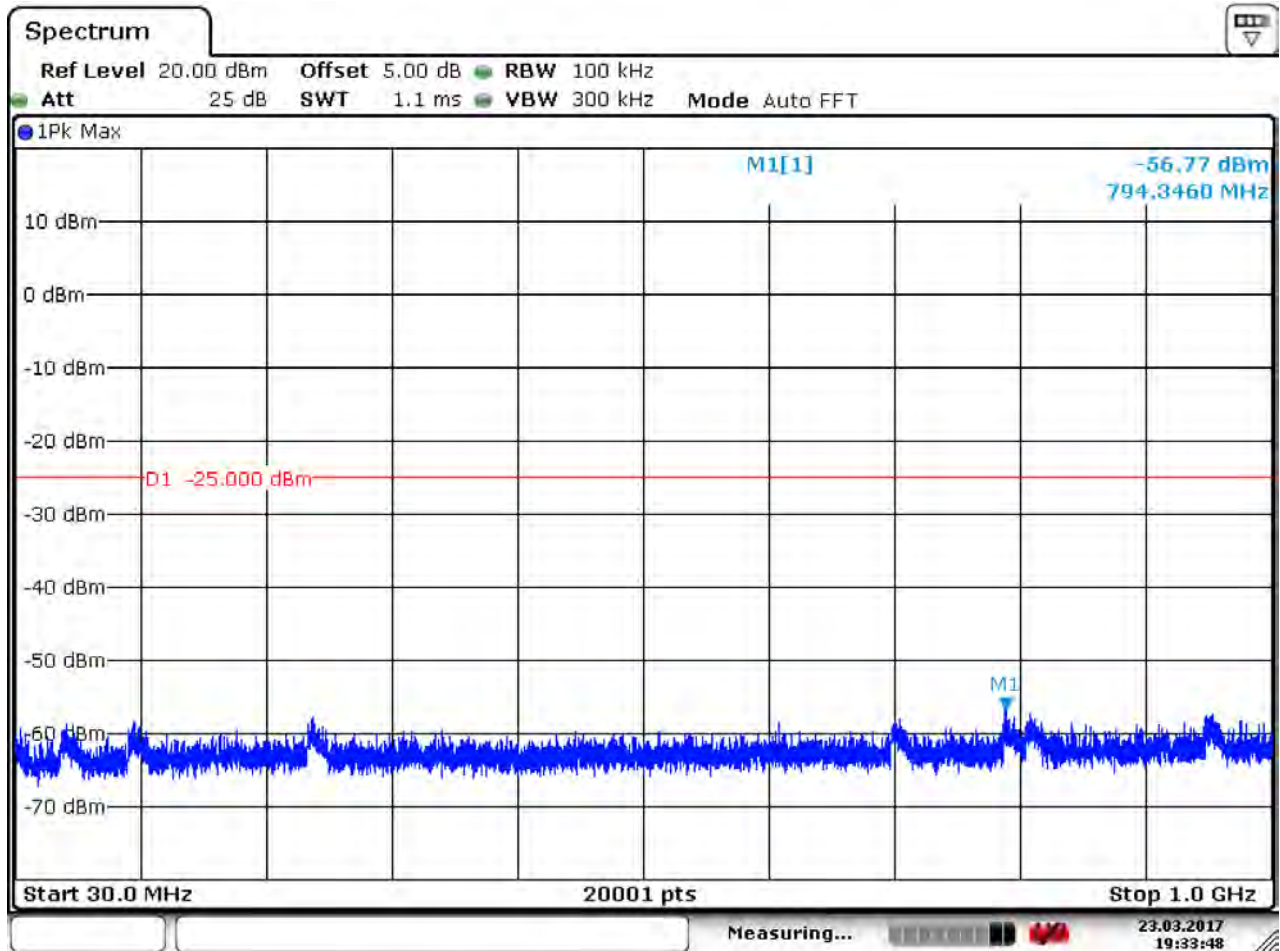
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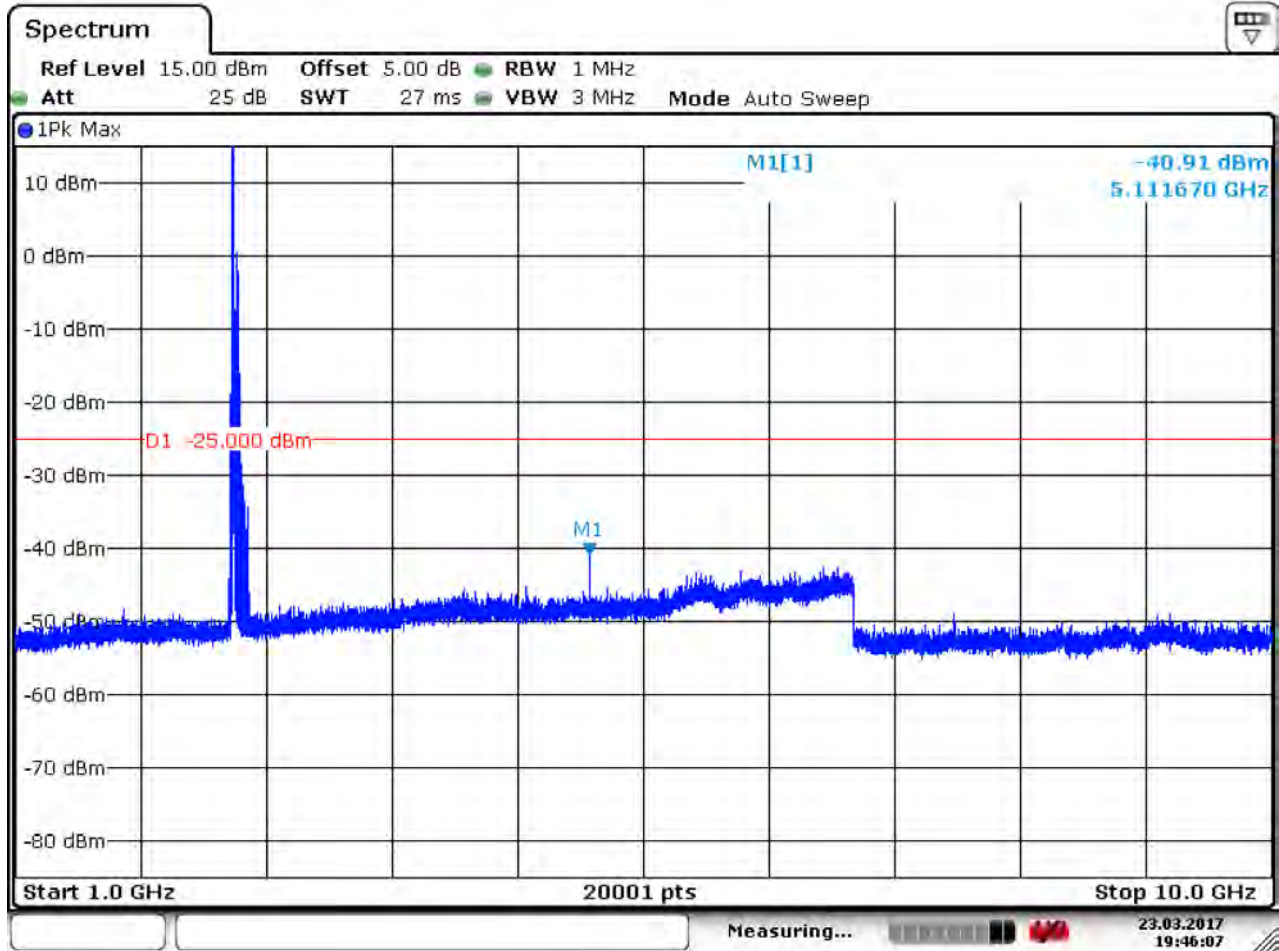


6.1.1.3 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.3.1 Test Channel = LCH

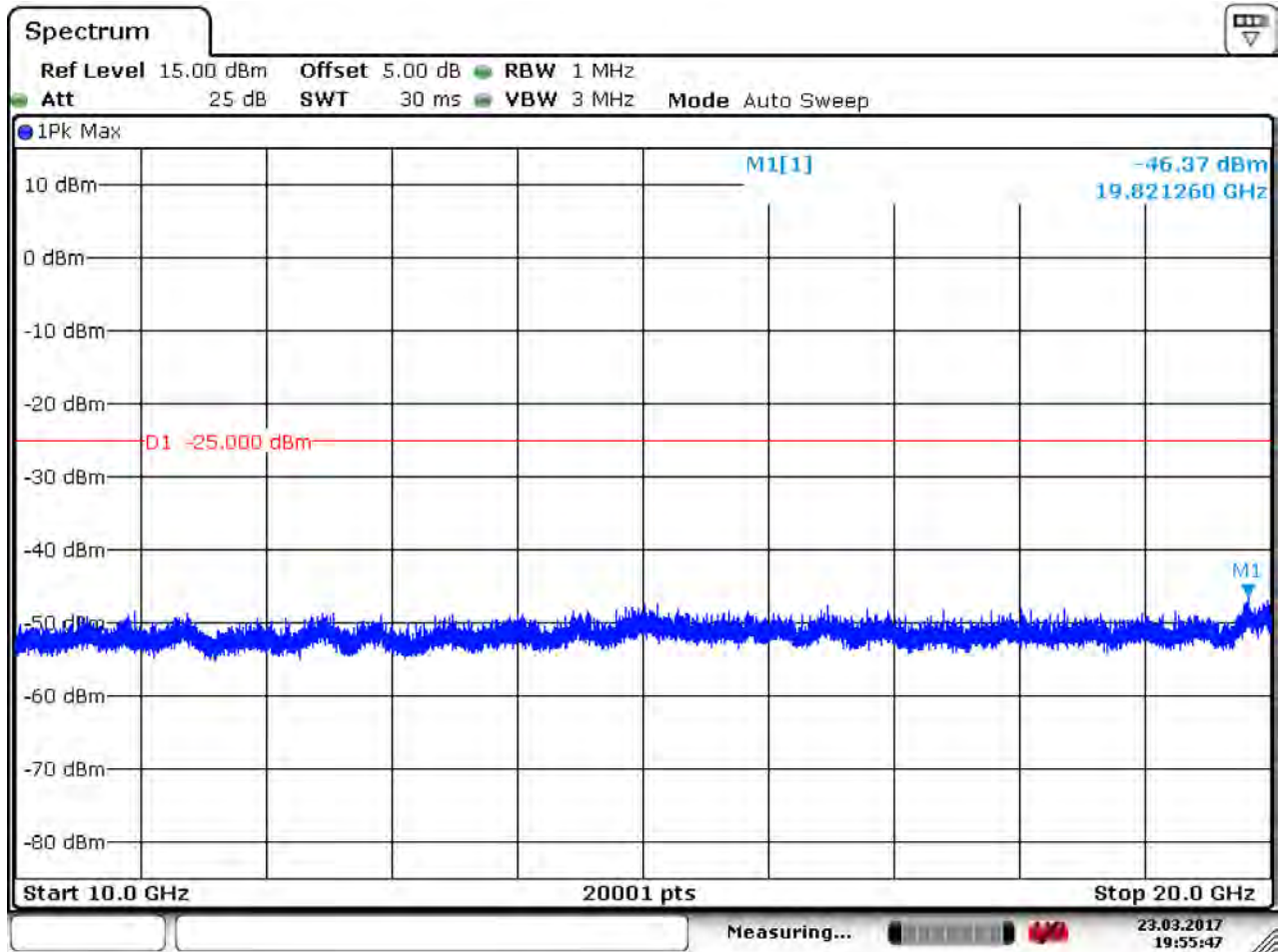


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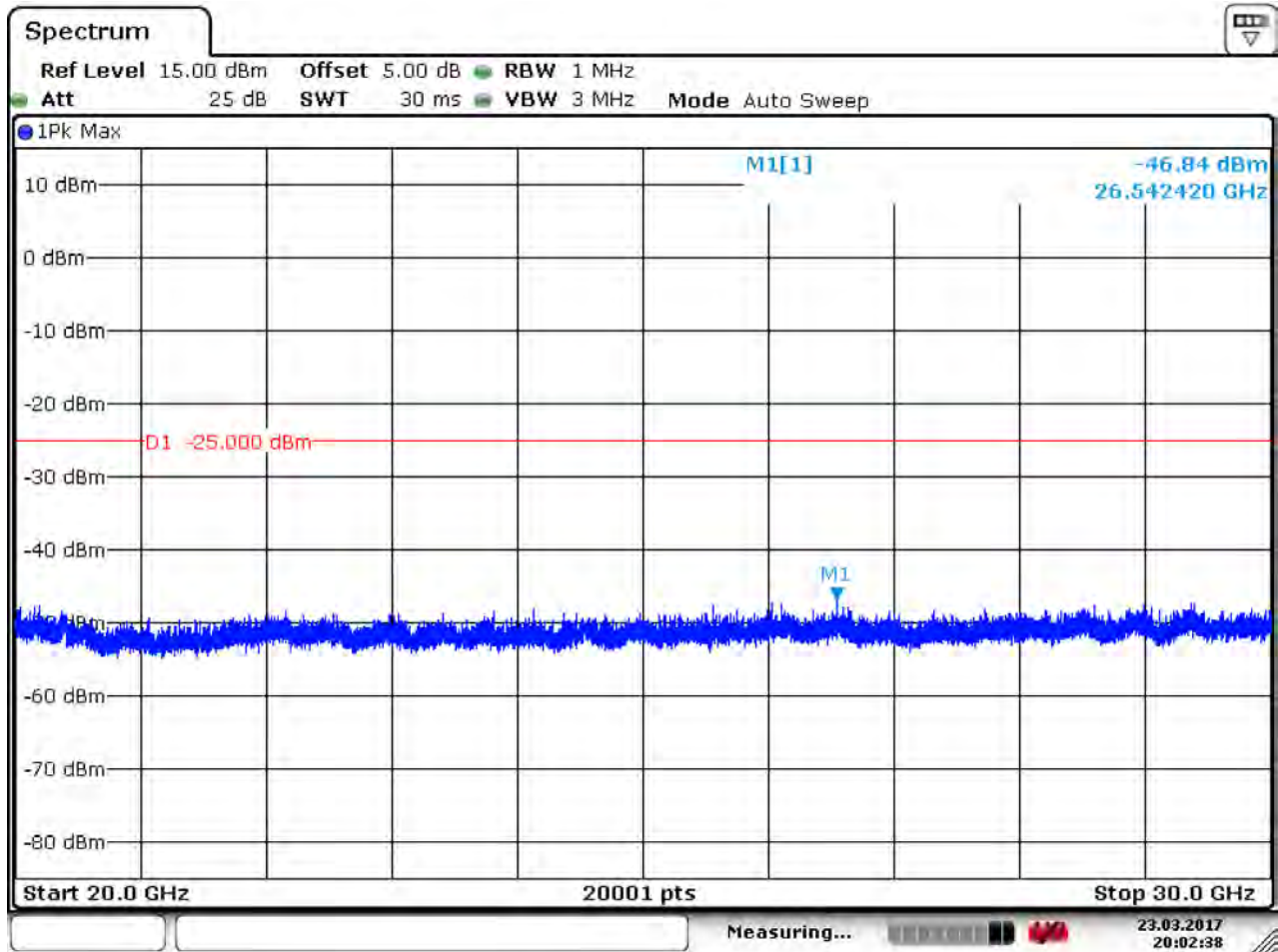
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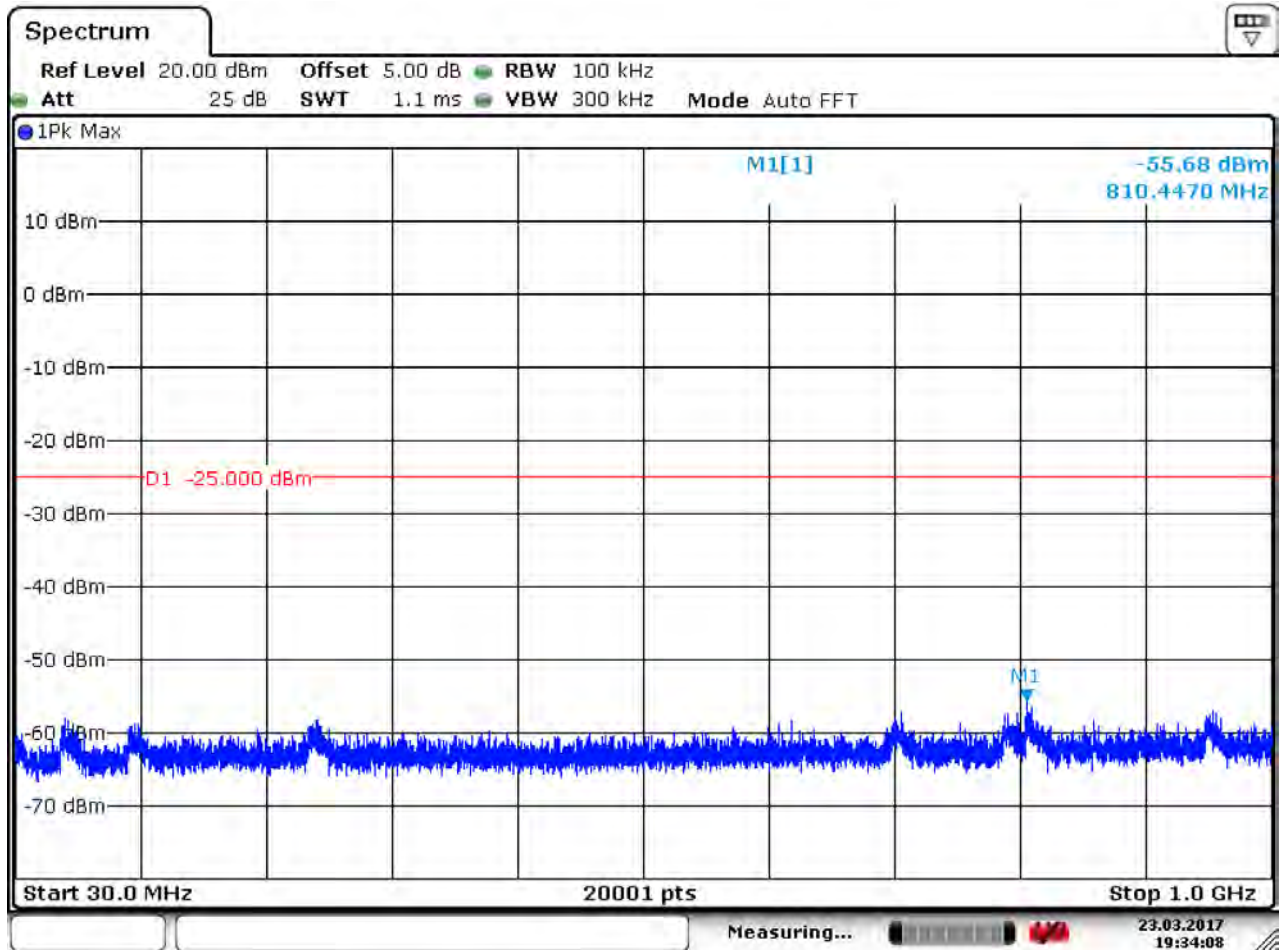
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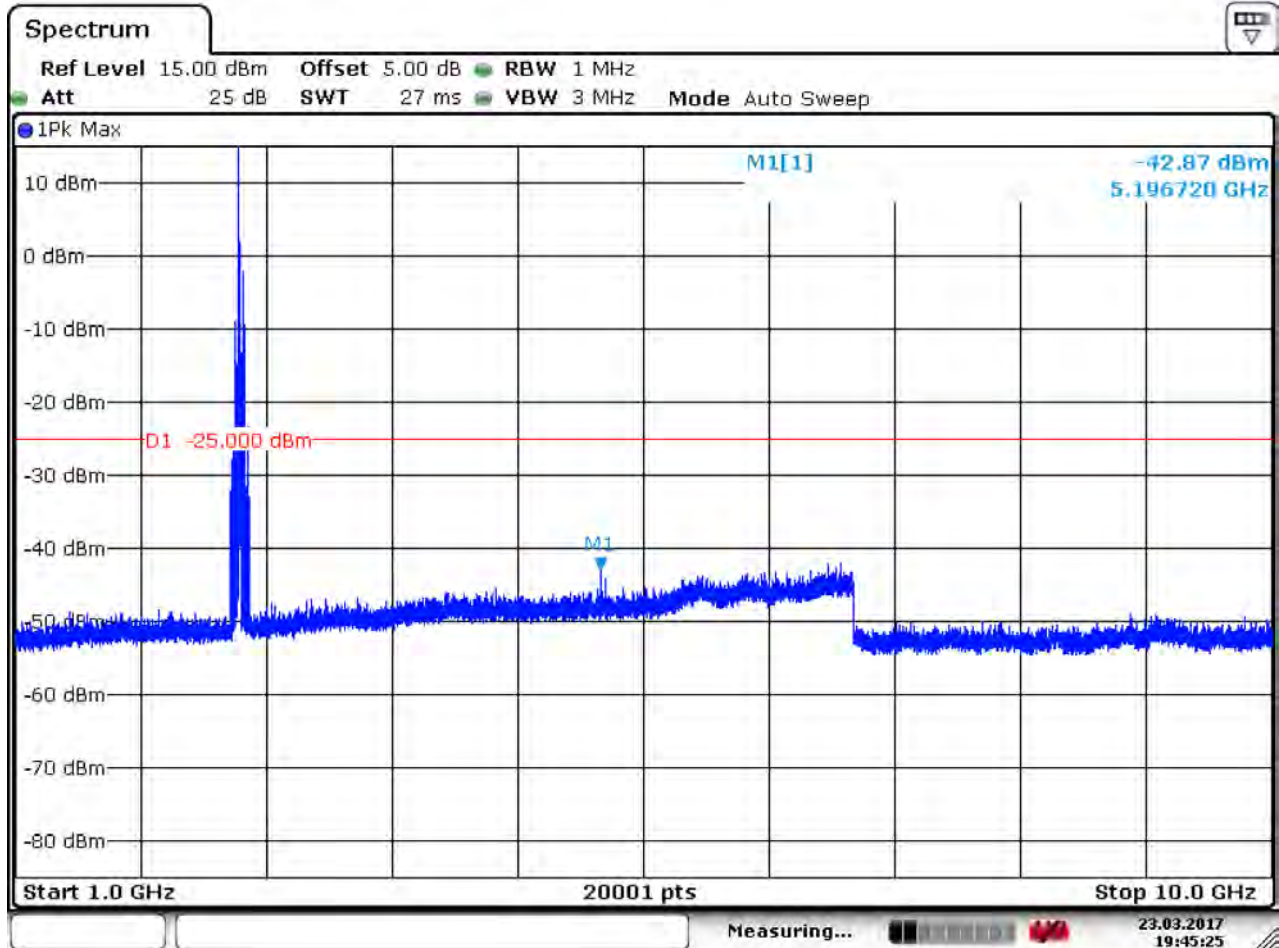
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6.1.1.3.2 Test Channel = MCH

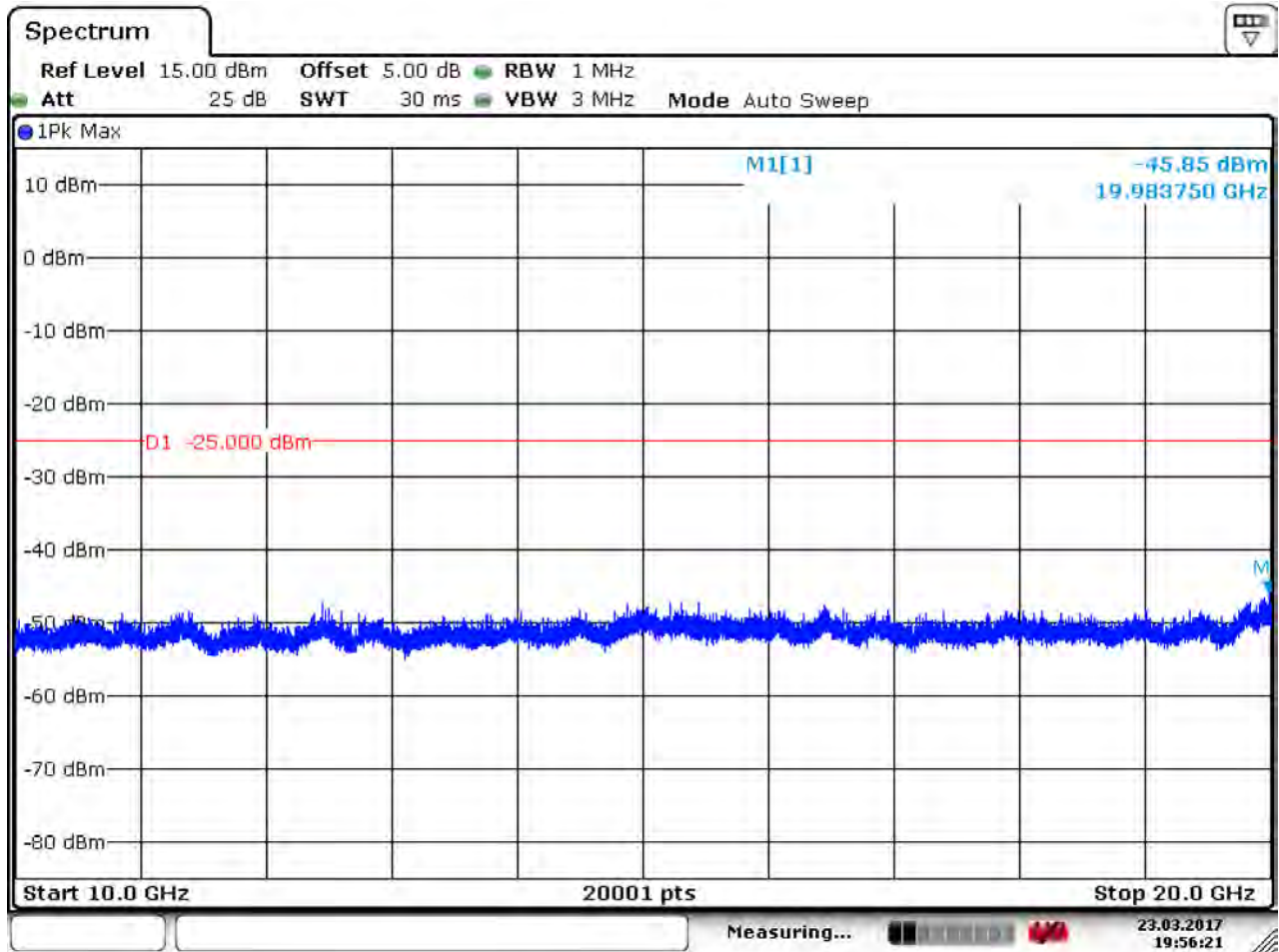


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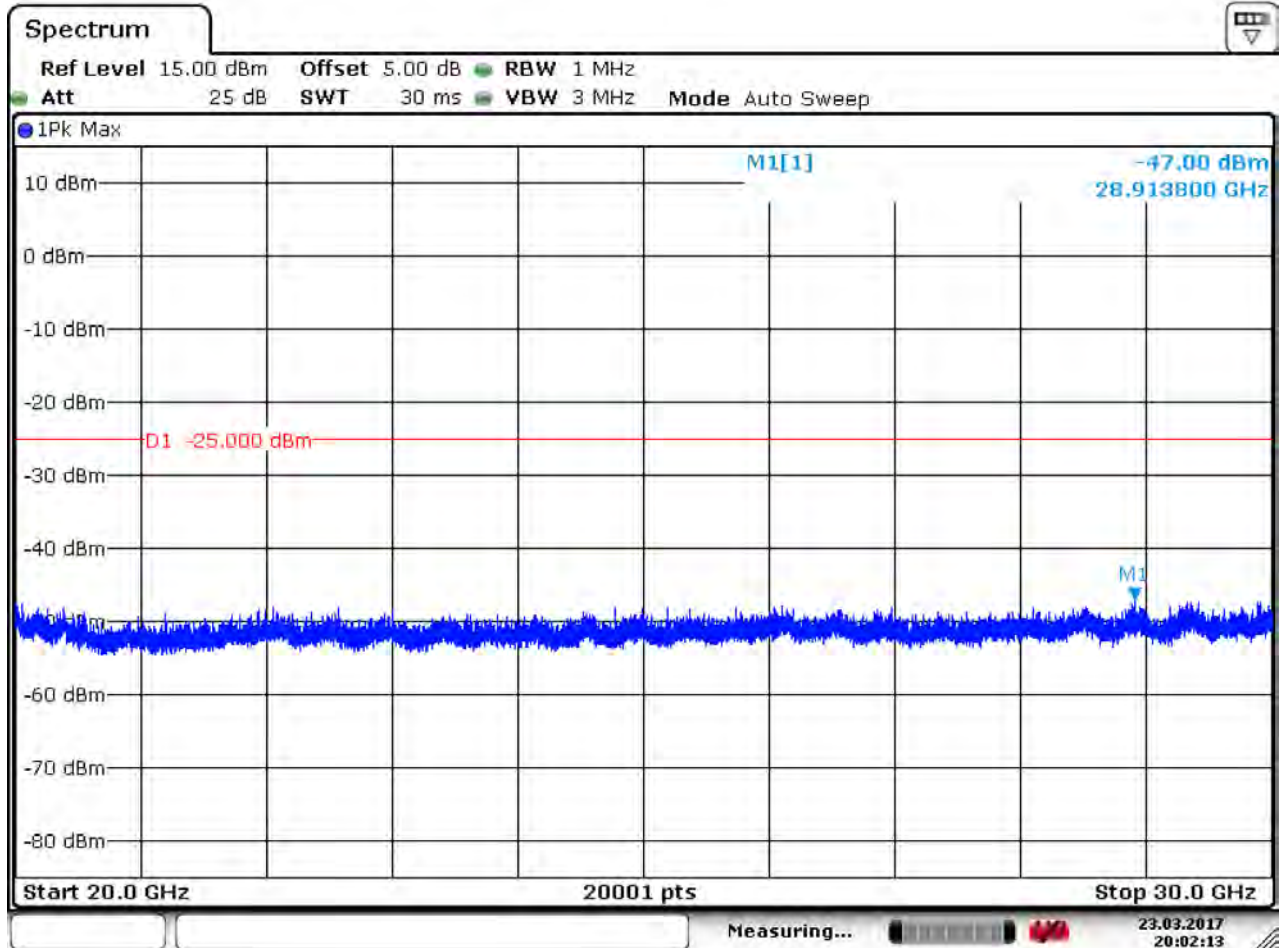


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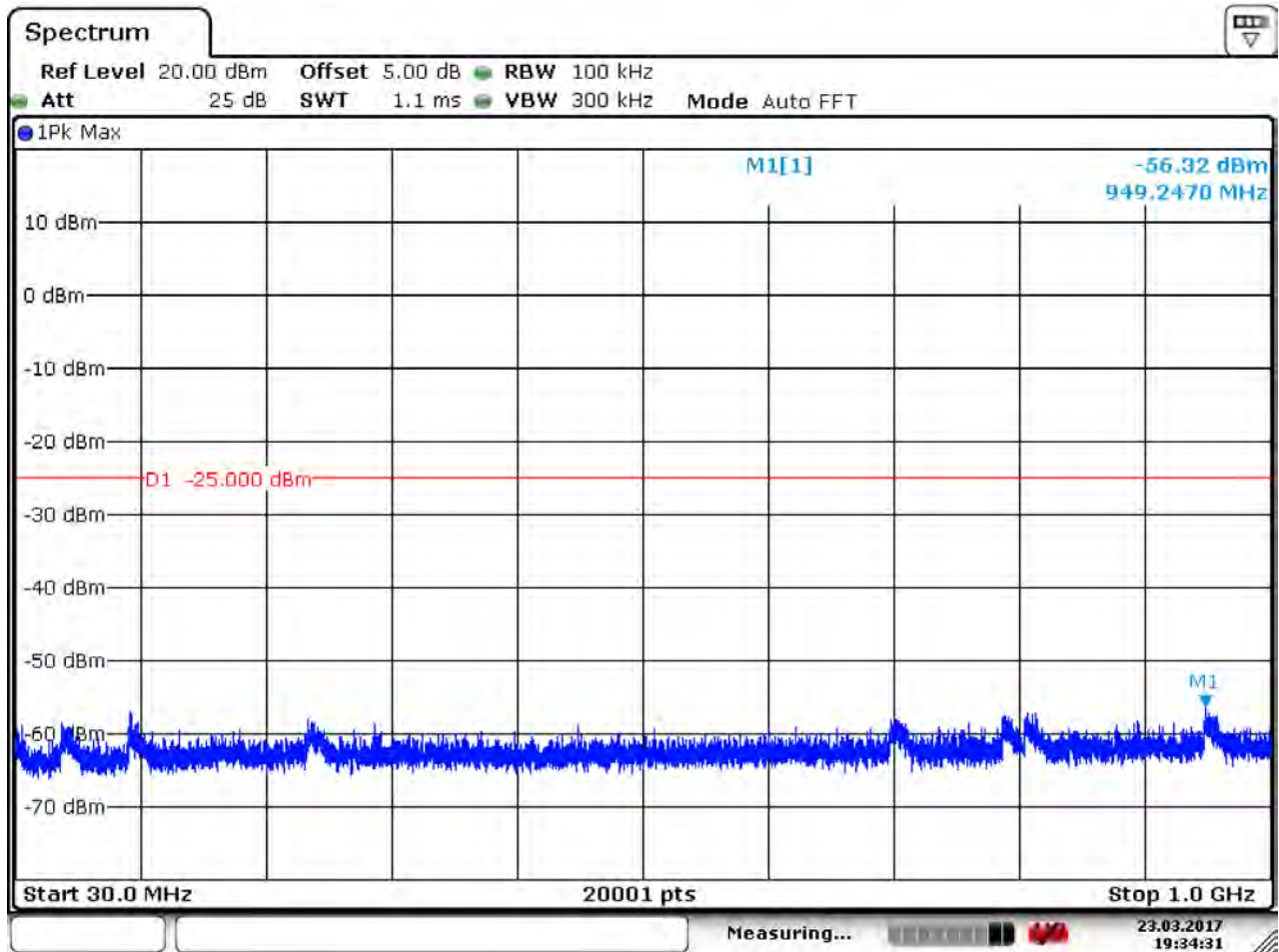


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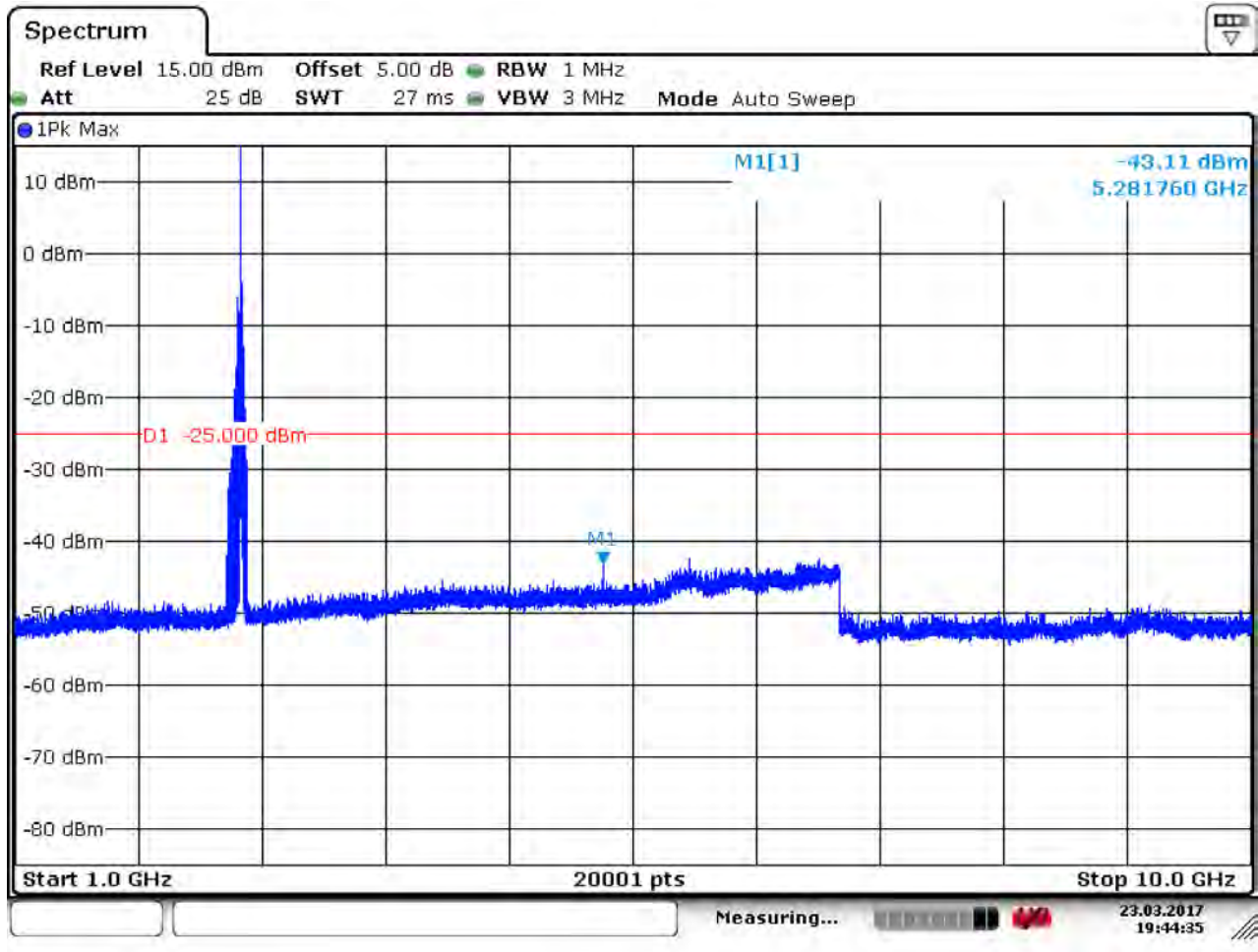
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6.1.1.3.3 Test Channel = HCH

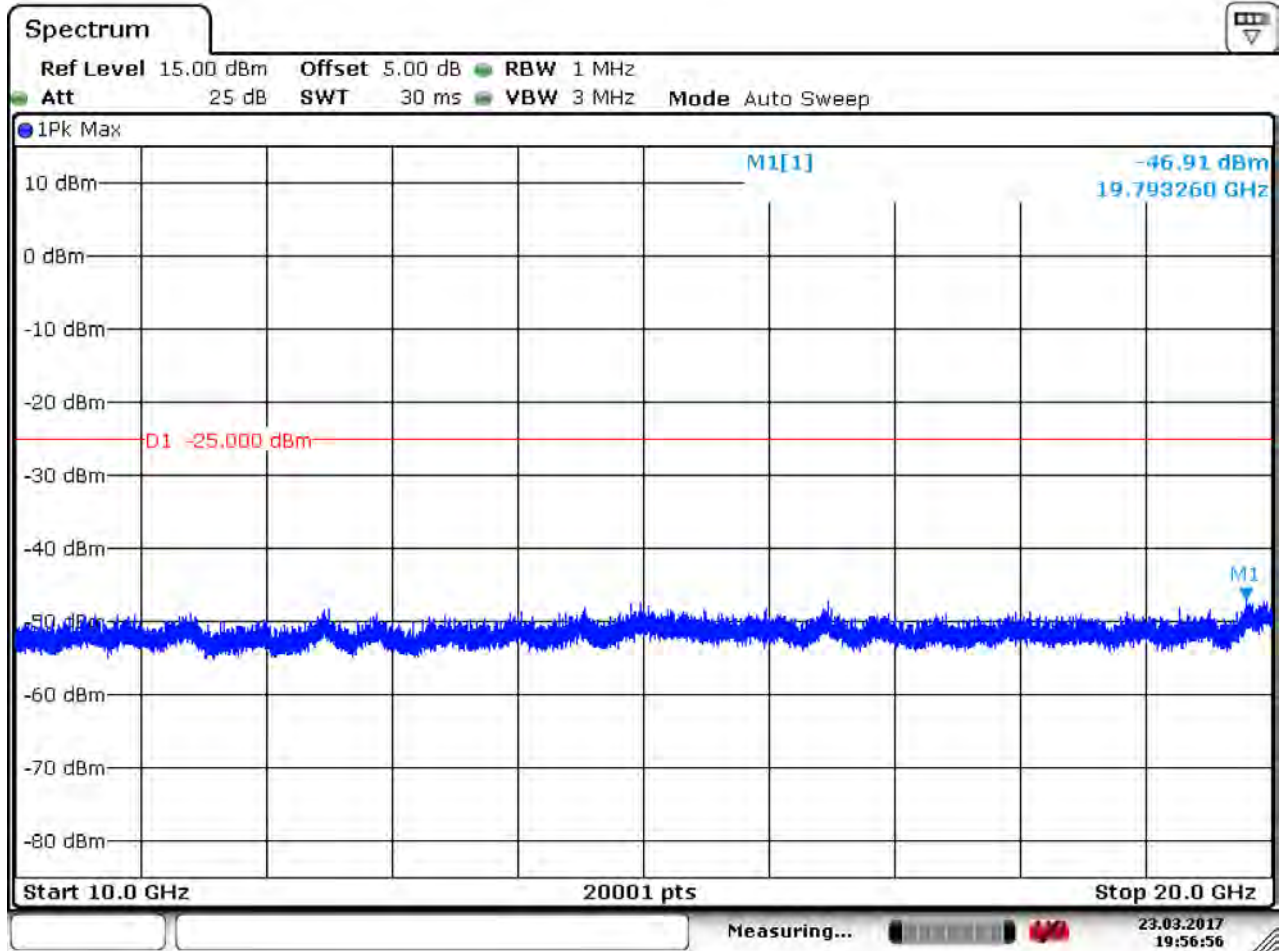


Date: 23.MAR.2017 19:34:32



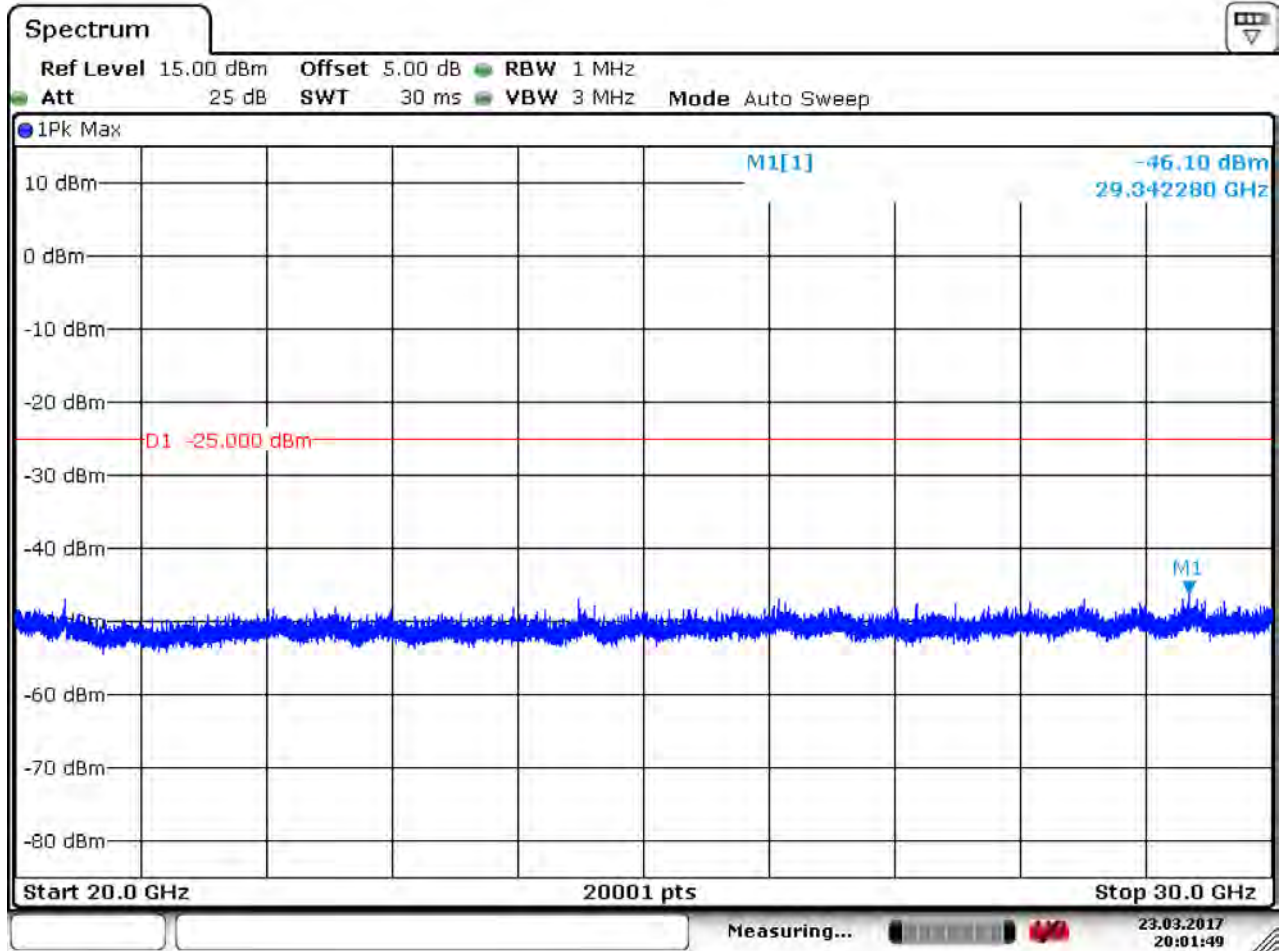
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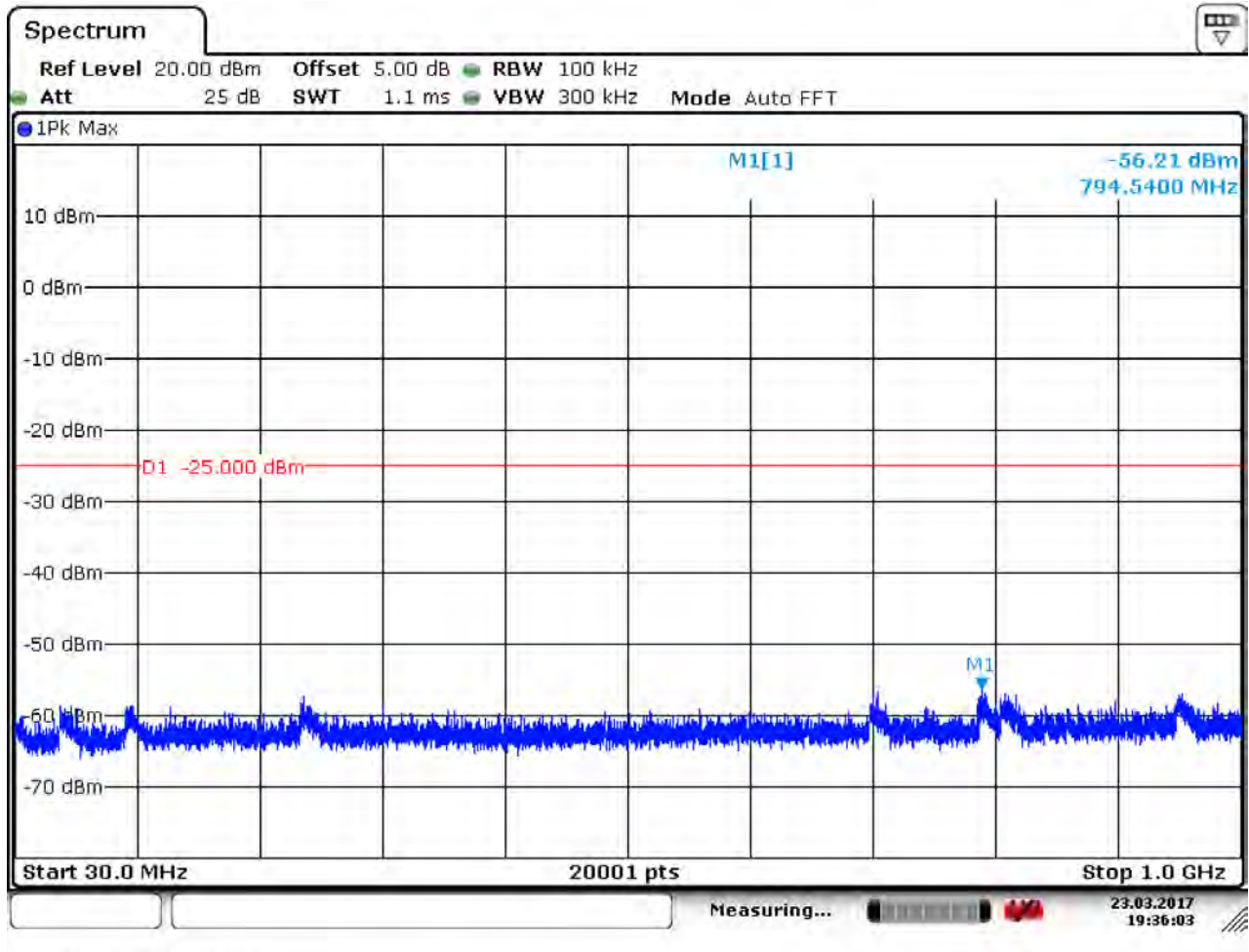
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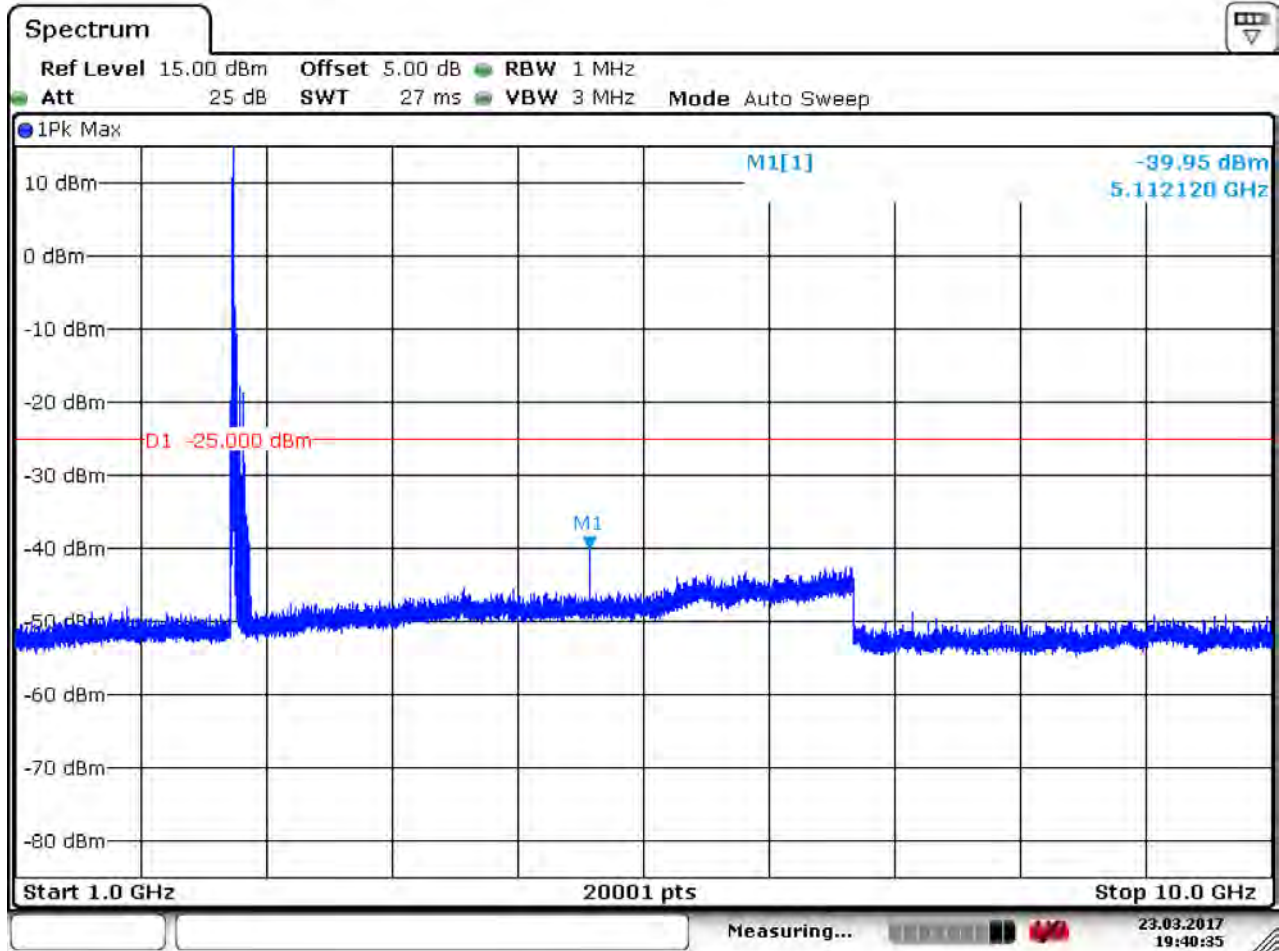


6.1.1.4 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.4.1 Test Channel = LCH



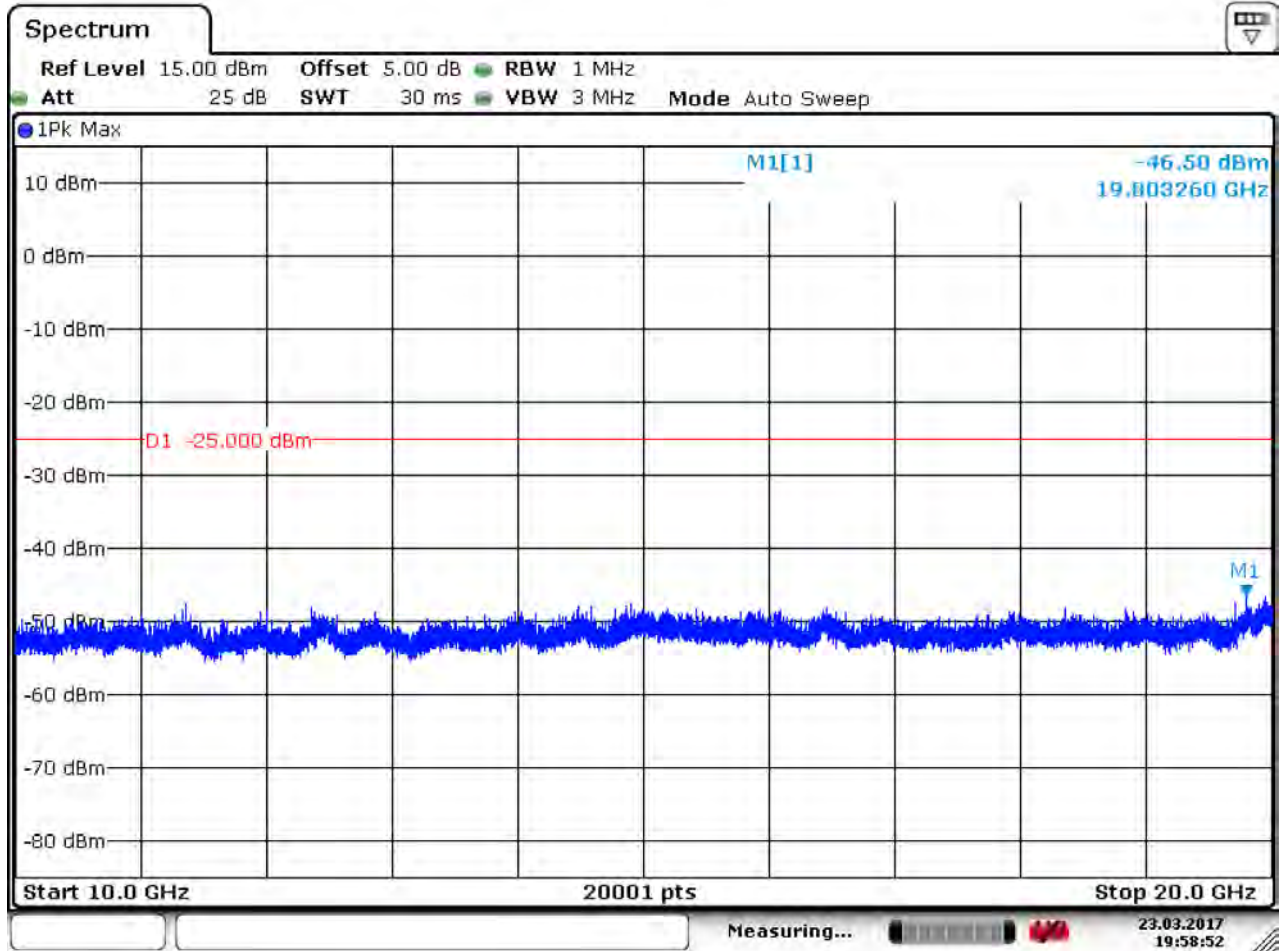
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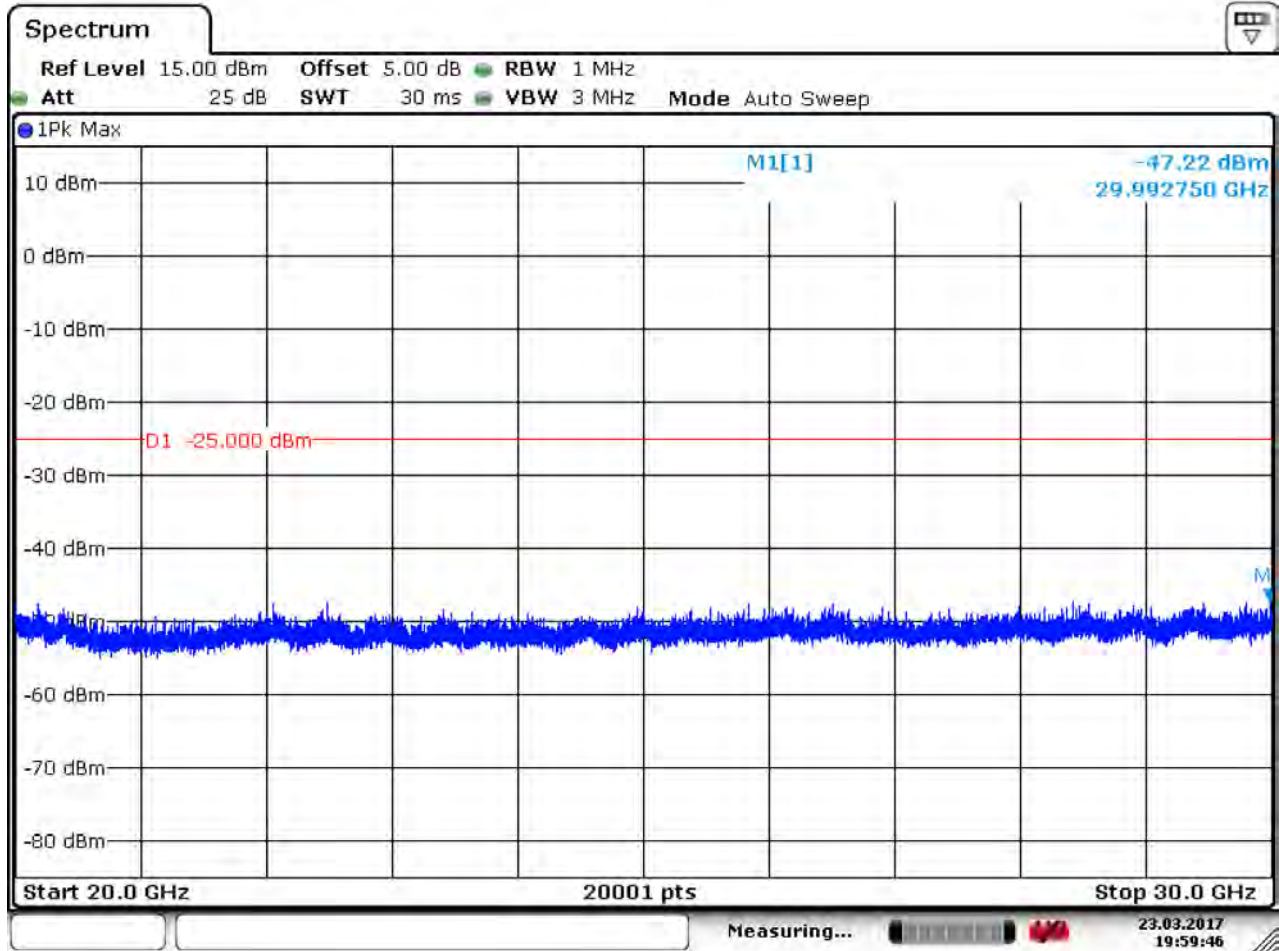
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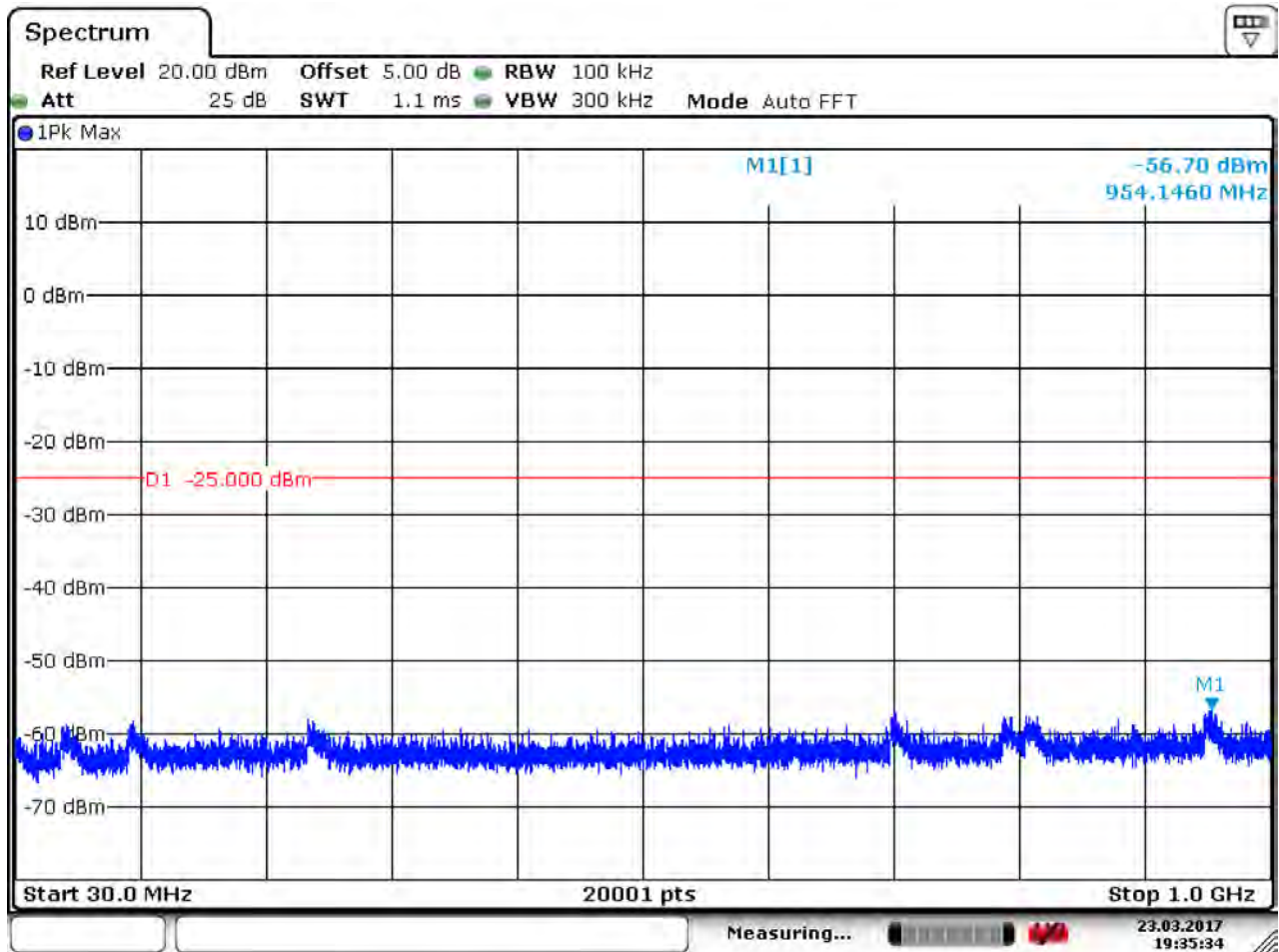


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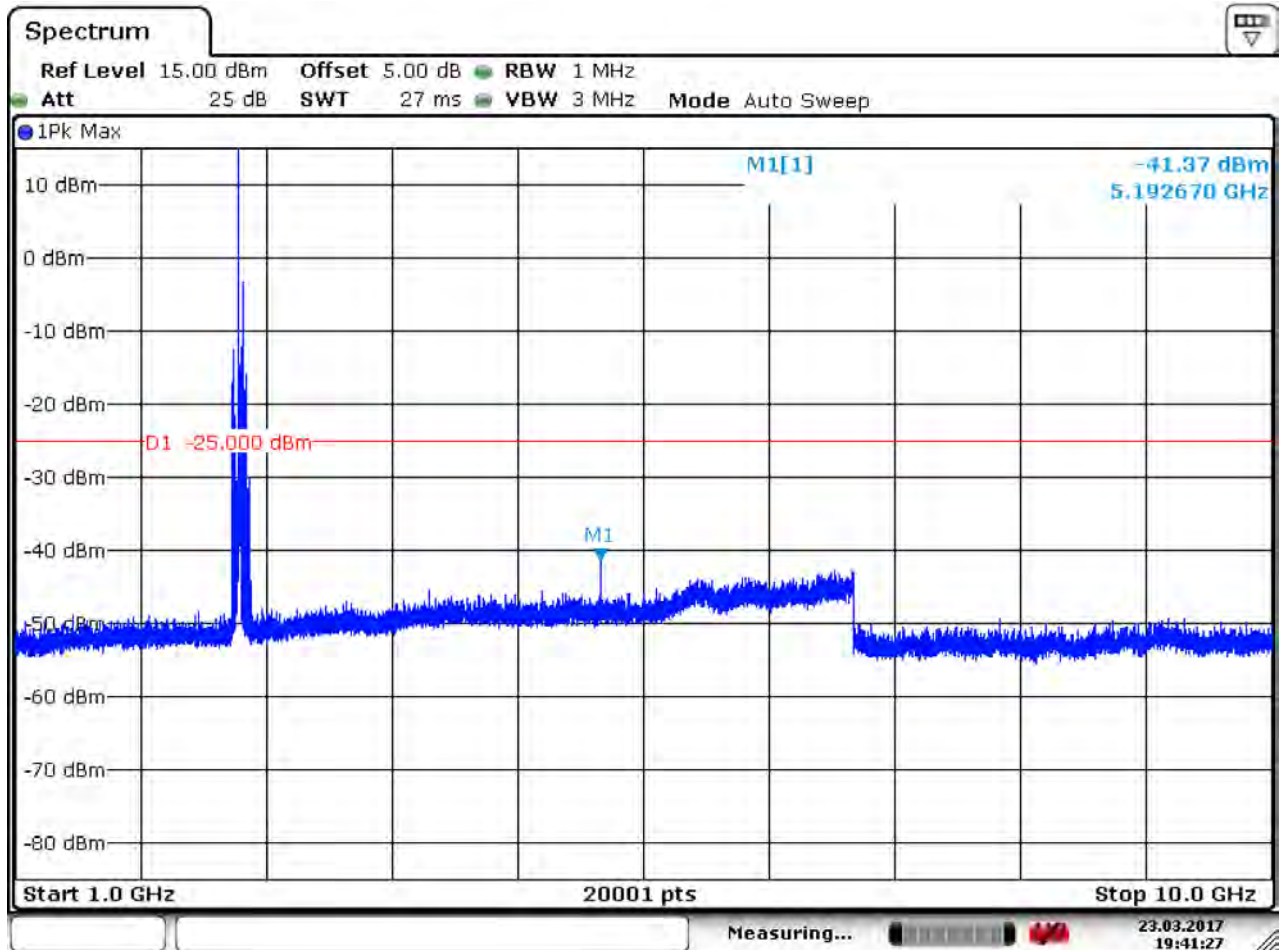
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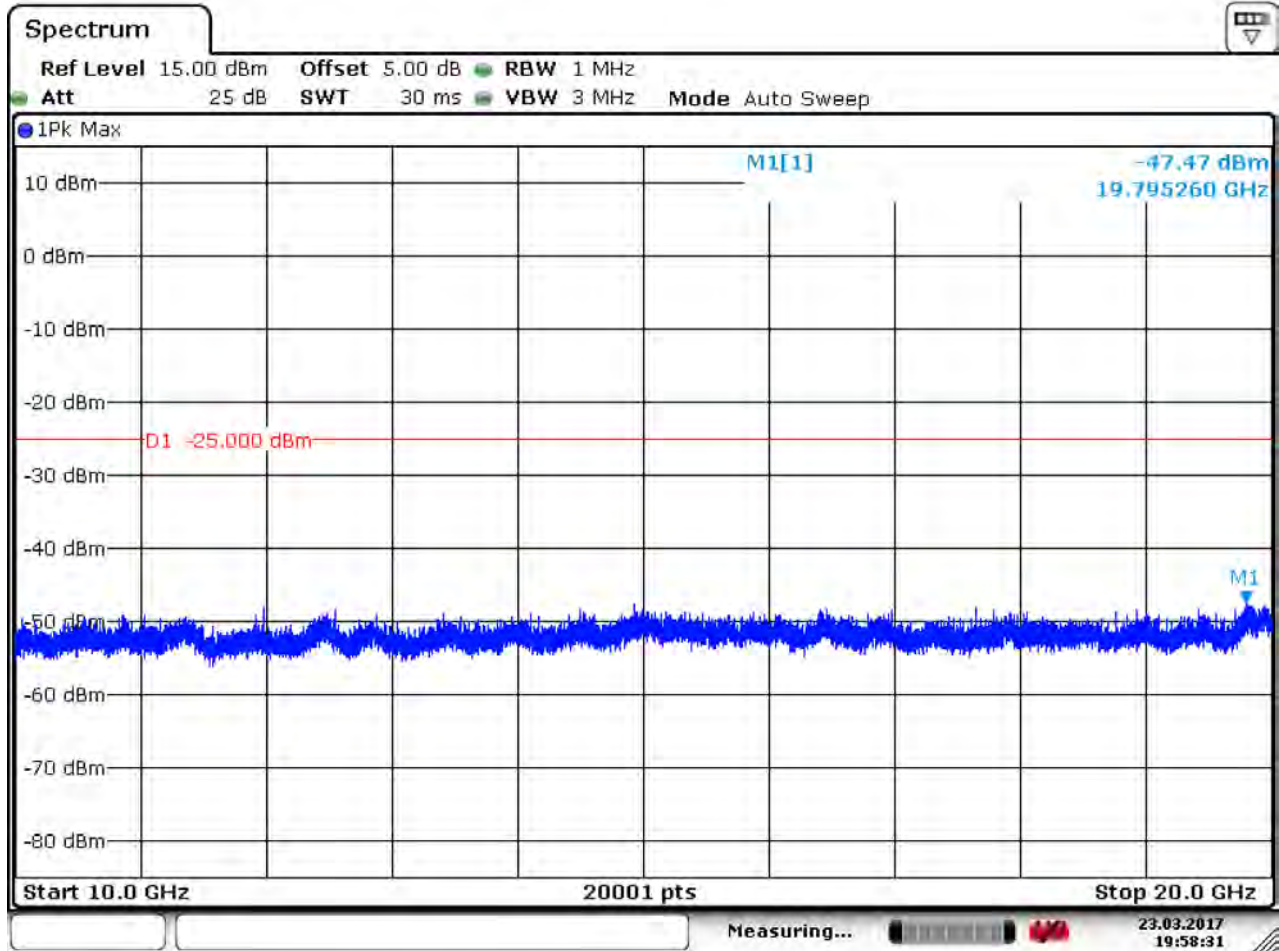
6.1.1.4.2 Test Channel = MCH



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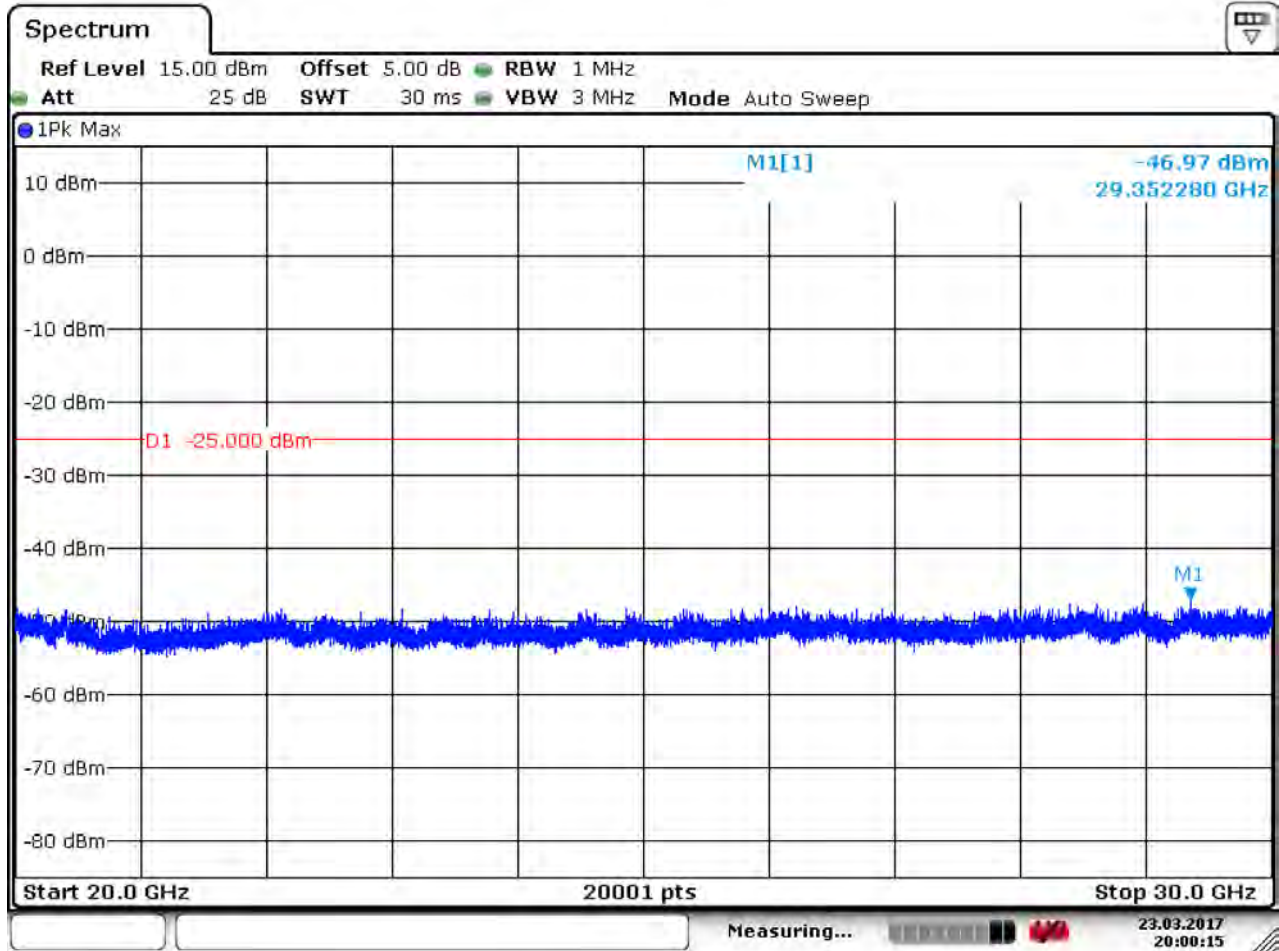


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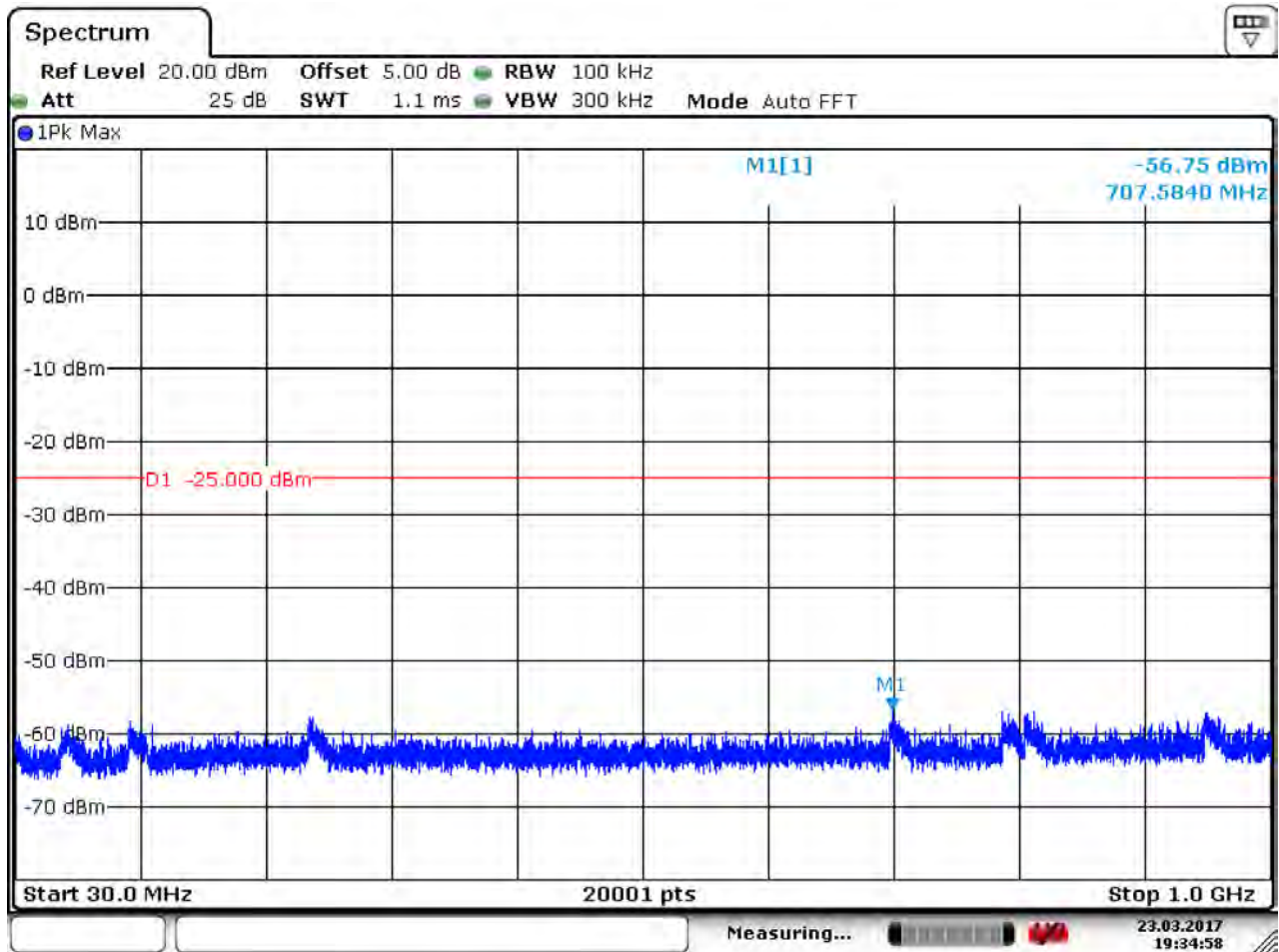


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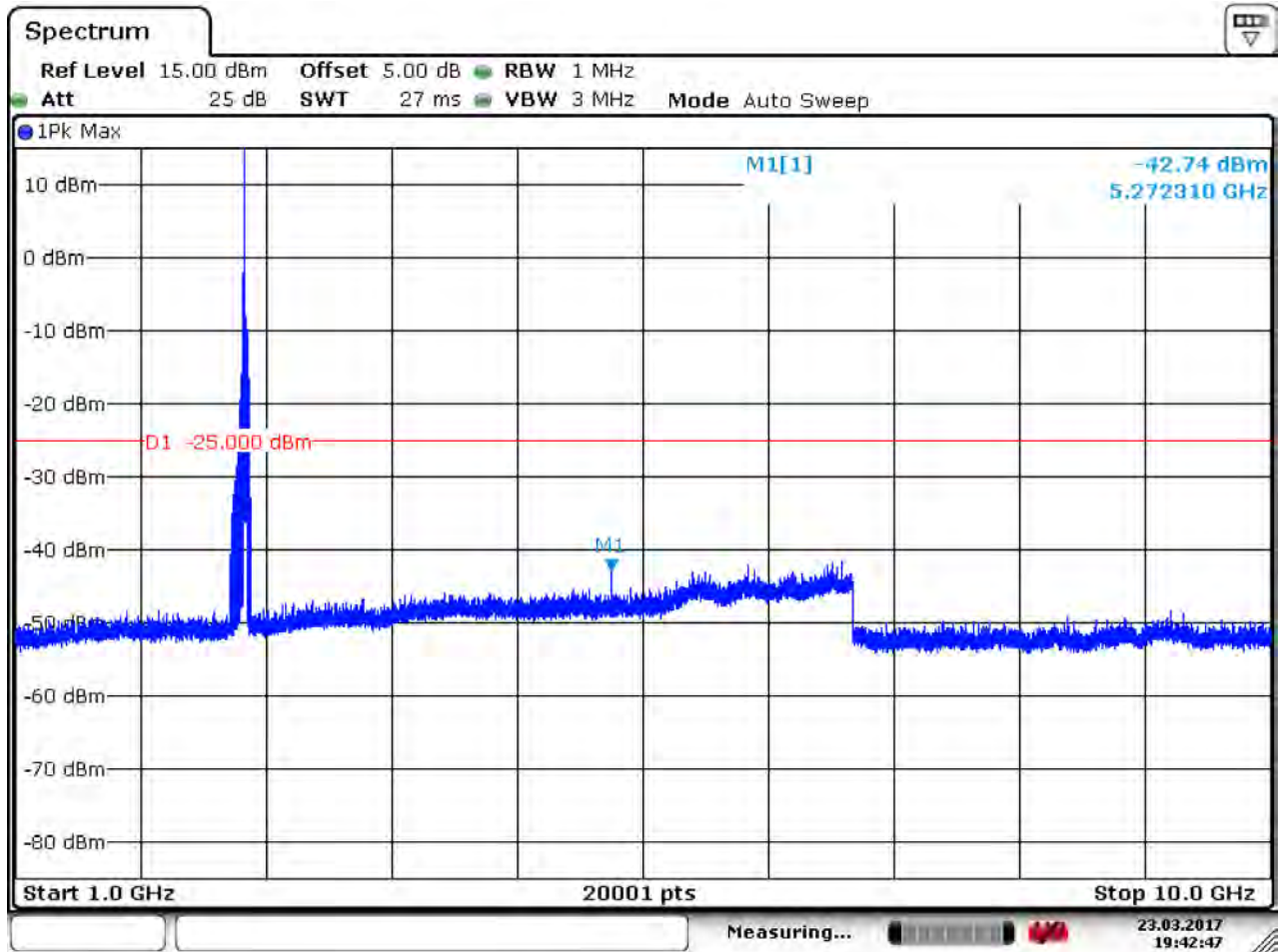
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6.1.1.4.3 Test Channel = HCH



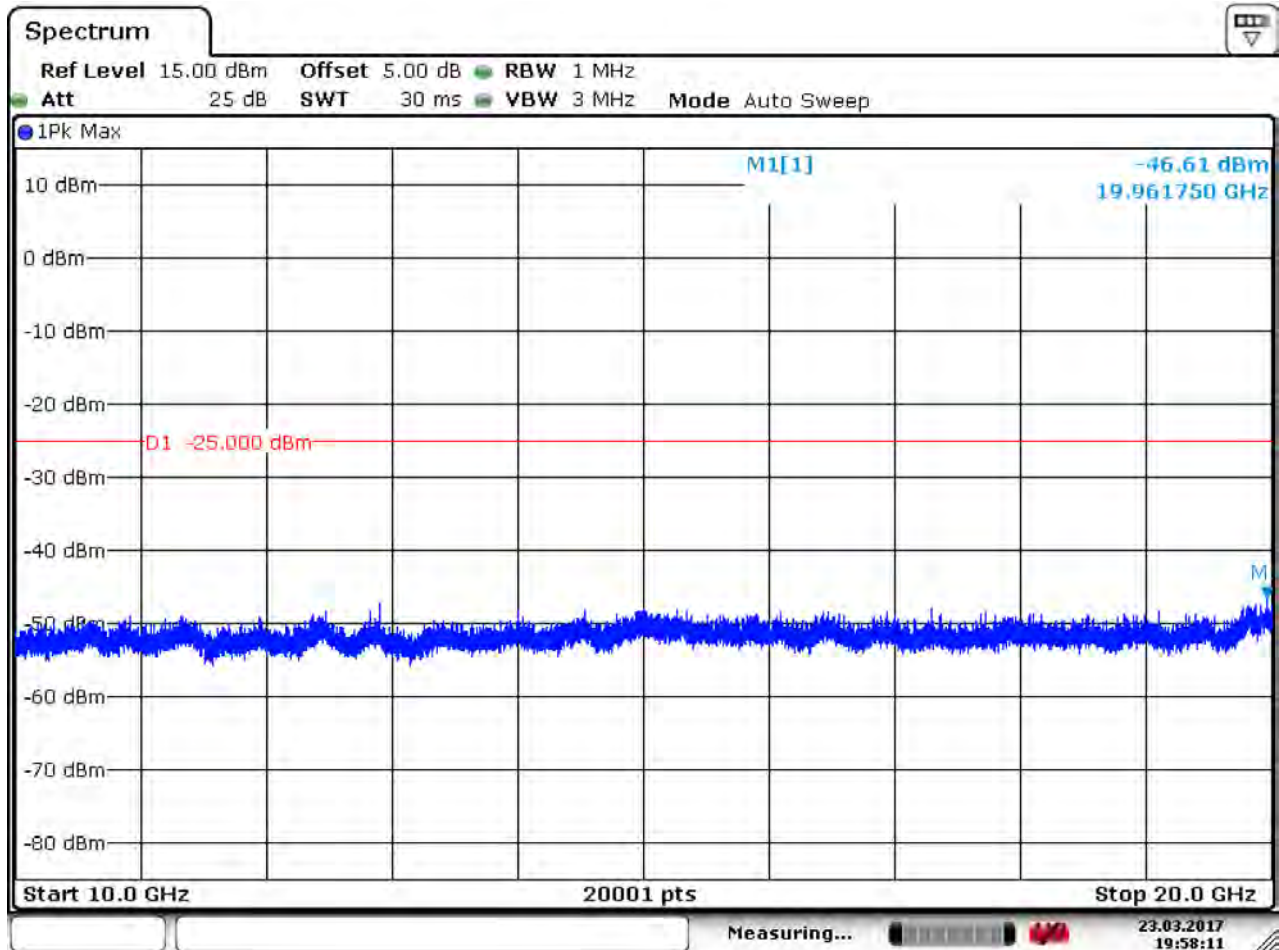
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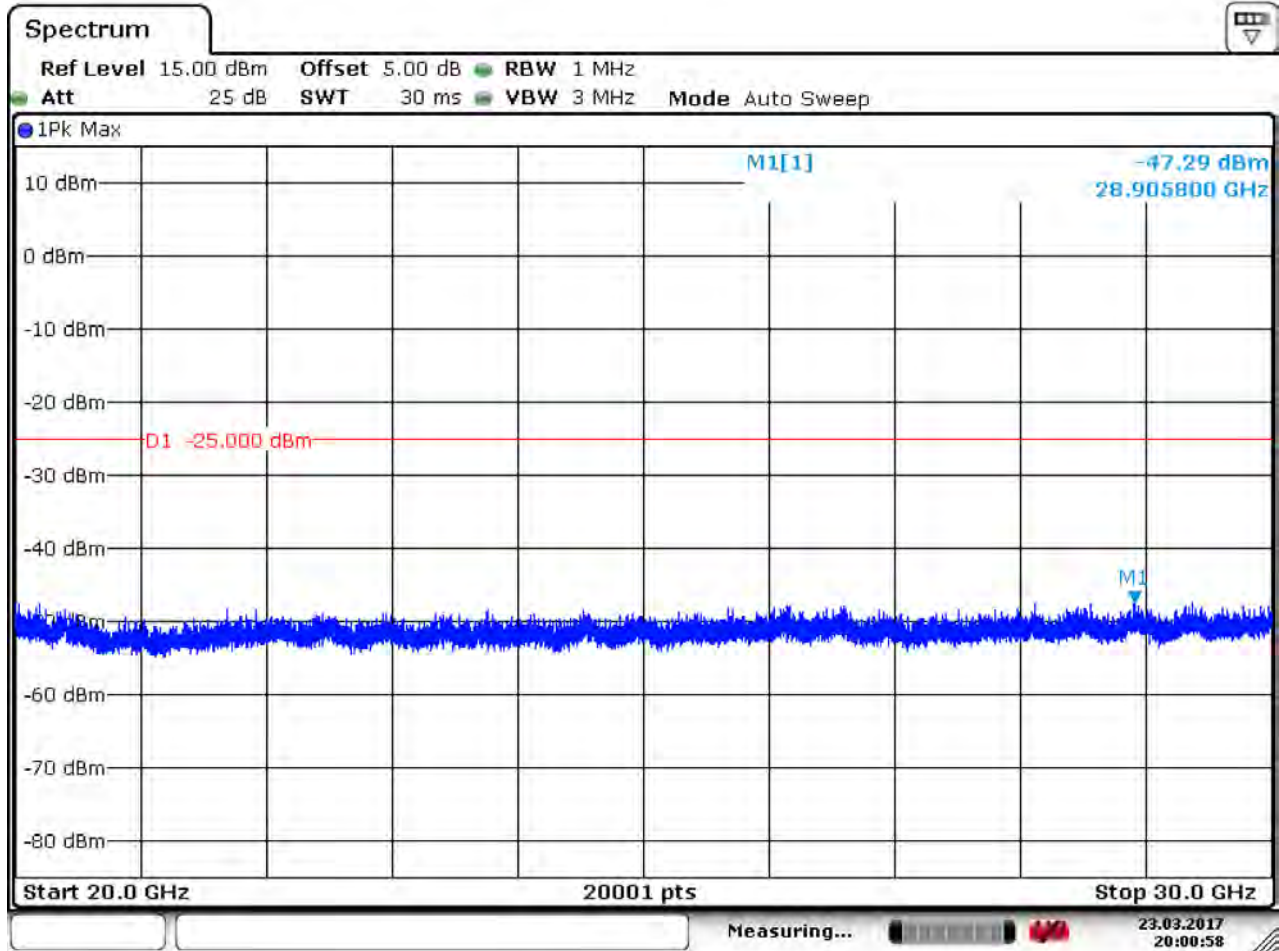
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## 7 Field Strength of Spurious Radiation

### 7.1 For LTE

#### 7.1.1 Test Band = LTE band41

##### 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
1661.000	-64.74	-25.00	-39.74	Vertical
2112.000	-61.49	-25.00	-36.49	Vertical
5730.000	-67.60	-25.00	-42.60	Vertical
1375.000	-67.42	-25.00	-42.42	Horizontal
1804.000	-63.35	-25.00	-38.35	Horizontal
3877.500	-69.17	-25.00	-44.17	Horizontal

###### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1210.000	-66.01	-25.00	-41.01	Vertical
1716.000	-64.05	-25.00	-39.05	Vertical
4267.500	-67.96	-25.00	-42.96	Vertical
1199.000	-66.83	-25.00	-41.83	Horizontal
1551.000	-65.80	-25.00	-40.80	Horizontal
4170.000000	-70.03	-25.00	-45.03	Horizontal

###### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1276.000	-66.06	-25.00	-41.06	Vertical
1892.000	-62.69	-25.00	-37.69	Vertical
4657.500	-68.14	-25.00	-43.14	Vertical
1298.000	-67.40	-25.00	-42.40	Horizontal
1892.000	-57.81	-25.00	-32.81	Horizontal
4950.000	-67.83	-25.00	-42.83	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
LTEband41	LTE/TM1 20MHz	LCH	TN	VL	-2.03	-0.00079	PASS
				VN	1.46	0.00057	PASS
				VH	-4.72	-0.00184	PASS
		MCH	TN	VL	1.43	0.00055	PASS
				VN	-4.84	-0.00186	PASS
				VH	2.43	0.00093	PASS
		HCH	TN	VL	-6.56	-0.00248	PASS
				VN	-3.17	-0.00120	PASS
				VH	-1.79	-0.00068	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.22	-0.00165	PASS
				VN	-2.45	-0.00096	PASS
				VH	-5.16	-0.00201	PASS
		MCH	TN	VL	3.56	0.00137	PASS
				VN	-2.30	-0.00088	PASS
				VH	3.89	0.00149	PASS
		HCH	TN	VL	-3.08	-0.00116	PASS
				VN	-4.04	-0.00153	PASS
				VH	2.44	0.00092	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
LTEband41	LTE/TM1 20MHz	LCH	VN	-30	-2.32	-0.00090	PASS
				-20	-3.34	-0.00130	PASS
				-10	2.18	0.00085	PASS
				0	4.75	0.00185	PASS
				10	1.65	0.00064	PASS
				20	6.11	0.00238	PASS
				30	-0.31	-0.00012	PASS
				40	-2.14	-0.00083	PASS
				50	2.59	0.00101	PASS
		MCH	VN	-30	-3.80	-0.00146	PASS
				-20	-5.95	-0.00228	PASS
				-10	-2.49	-0.00096	PASS
				0	-5.62	-0.00216	PASS
				10	-3.04	-0.00117	PASS
				20	-1.93	-0.00074	PASS
				30	-5.66	-0.00217	PASS
				40	0.62	0.00024	PASS
				50	-6.42	-0.00246	PASS
		HCH	VN	-30	0.58	0.00022	PASS
				-20	-3.49	-0.00132	PASS
				-10	1.73	0.00065	PASS
				0	-4.83	-0.00183	PASS
				10	2.90	0.00110	PASS
				20	-0.57	-0.00022	PASS
				30	-5.64	-0.00213	PASS
				40	-2.43	-0.00092	PASS
				50	-3.90	-0.00147	PASS

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Shenzhen Branch**

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband41	LTE/TM2 20MHz	LCH	VN	-30	-0.50	-0.00019	PASS
				-20	-2.45	-0.00096	PASS
				-10	3.38	0.00132	PASS
				0	2.64	0.00103	PASS
				10	1.60	0.00062	PASS
				20	-0.23	-0.00009	PASS
				30	-0.44	-0.00017	PASS
				40	5.34	0.00208	PASS
		MCH	VN	-30	-3.80	-0.00146	PASS
				-20	-5.38	-0.00207	PASS
				-10	-7.29	-0.00280	PASS
				0	-4.32	-0.00166	PASS
				10	-0.34	-0.00013	PASS
				20	1.74	0.00067	PASS
				30	-3.64	-0.00140	PASS
				40	-2.62	-0.00101	PASS
		HCH	VN	-30	1.34	0.00051	PASS
				-20	-2.55	-0.00096	PASS
				-10	1.59	0.00060	PASS
				0	-3.73	-0.00141	PASS
				10	2.88	0.00109	PASS
				20	-1.47	-0.00056	PASS
				30	-2.59	-0.00098	PASS
				40	-4.33	-0.00164	PASS
			50	-7.60	-0.00287	PASS	

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