



# Appendix B

## Test Data for SZEM161000916605RG



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# 1 Effective (Isotropic) Radiated Power Output Data

## Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	EIRP[dB]	Limit[dBm]	Verdict
WCDMA1900	UMTS/TM1	LCH	23.76	25.99	33	PASS
		MCH	23.83	26.06	33	PASS
		HCH	23.30	25.53	33	PASS
	UMTS/TM2	LCH	21.73	23.96	33	PASS
		MCH	21.81	24.04	33	PASS
		HCH	21.26	23.49	33	PASS
WCDMA1700	UMTS/TM1	LCH	23.26	24.92	30	PASS
		MCH	23.22	24.88	30	PASS
		HCH	23.09	24.75	30	PASS
	UMTS/TM2	LCH	21.21	22.87	30	PASS
		MCH	21.24	22.90	30	PASS
		HCH	21.11	22.77	30	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

Test Band	Test Mode	Test Channel	Measured[dB]	ERP[dB]	Limit[dBm]	Verdict
WCDMA850	UMTS/TM1	LCH	23.61	23.72	38.45	PASS
		MCH	23.59	23.70	38.45	PASS
		HCH	23.56	23.67	38.45	PASS
	UMTS/TM2	LCH	21.57	21.68	38.45	PASS
		MCH	21.45	21.56	38.45	PASS
		HCH	21.49	21.60	38.45	PASS

Note:

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

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

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
WCDMA1900	UMTS/TM1	LCH	2.26	13	PASS
		MCH	2.75	13	PASS
		HCH	2.67	13	PASS
	UMTS/TM2	LCH	3.65	13	PASS
		MCH	3.88	13	PASS
		HCH	3.65	13	PASS
WCDMA1700	UMTS/TM1	LCH	2.81	13	PASS
		MCH	2.78	13	PASS
		HCH	2.81	13	PASS
	UMTS/TM2	LCH	3.94	13	PASS
		MCH	3.83	13	PASS
		HCH	4.09	13	PASS
WCDMA850	UMTS/TM1	LCH	2.70	13	PASS
		MCH	2.70	13	PASS
		HCH	2.55	13	PASS
	UMTS/TM2	LCH	3.74	13	PASS
		MCH	3.54	13	PASS
		HCH	3.88	13	PASS



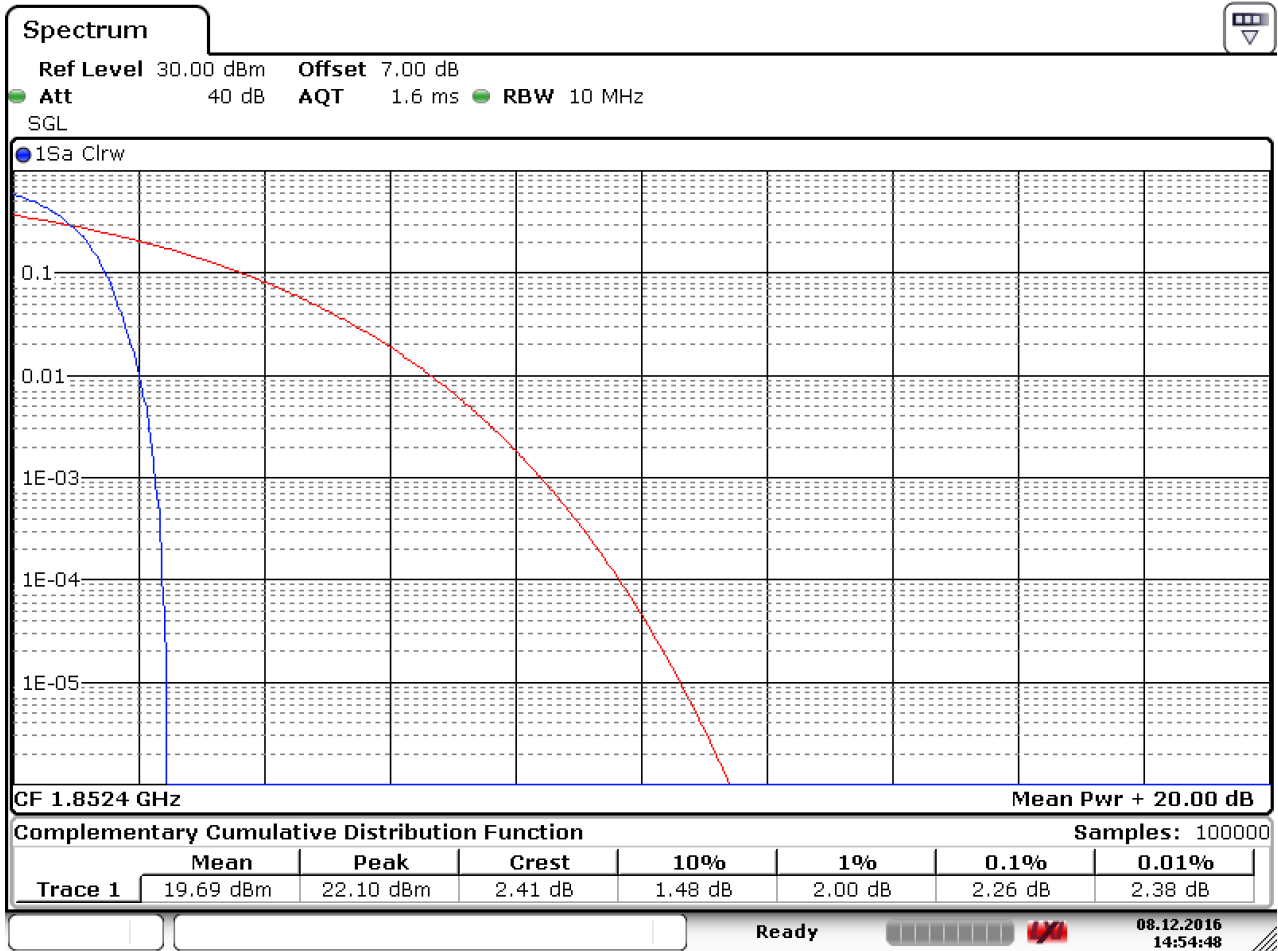
Part II - Test Plots

2.1 For WCDMA

2.1.1 Test Band = WCDMA 1900

2.1.1.1 Test Mode = UMTS/TM1

2.1.1.1.1 Test Channel = LCH

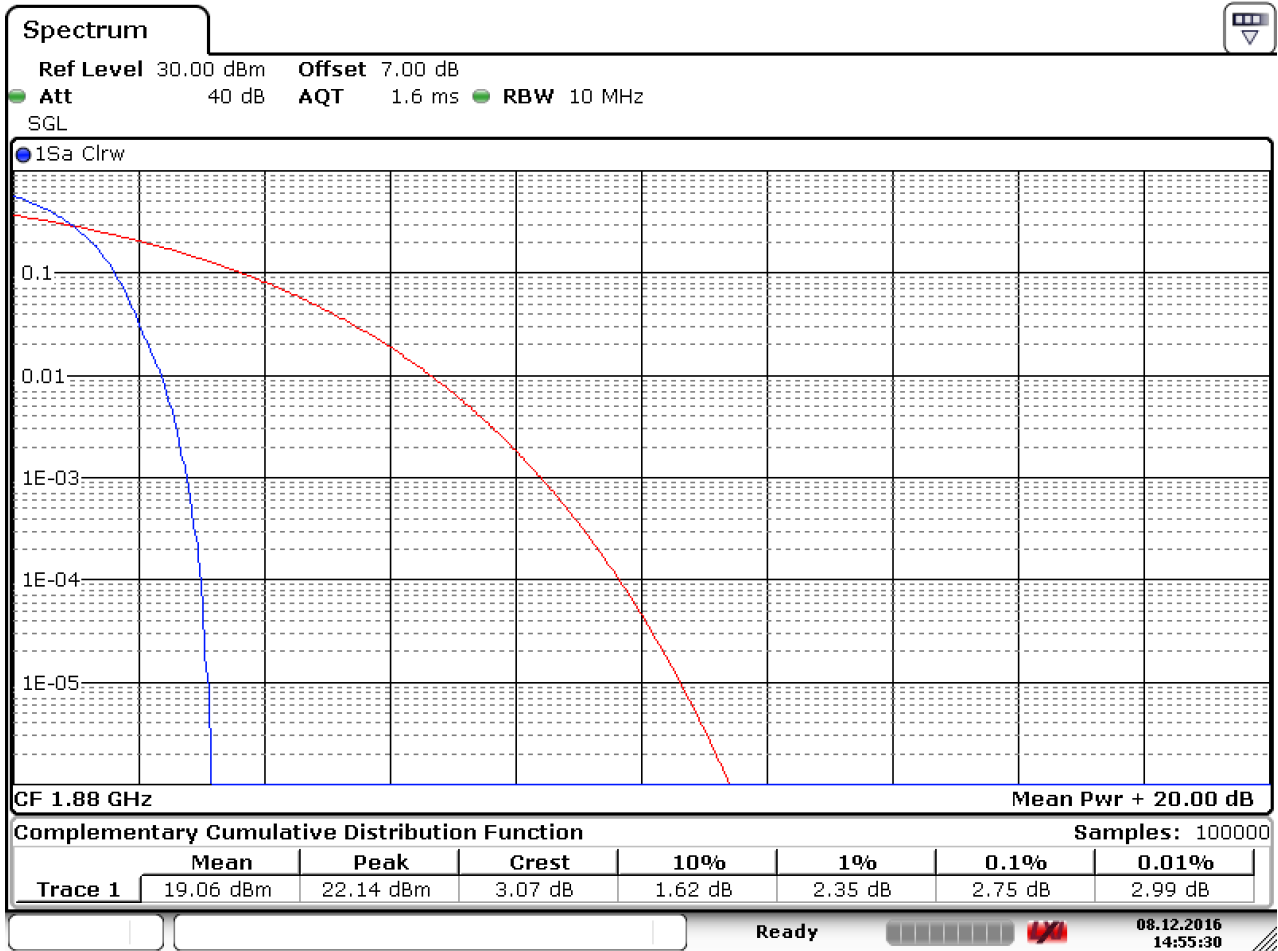


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2.1.1.1.2 Test Channel = MCH

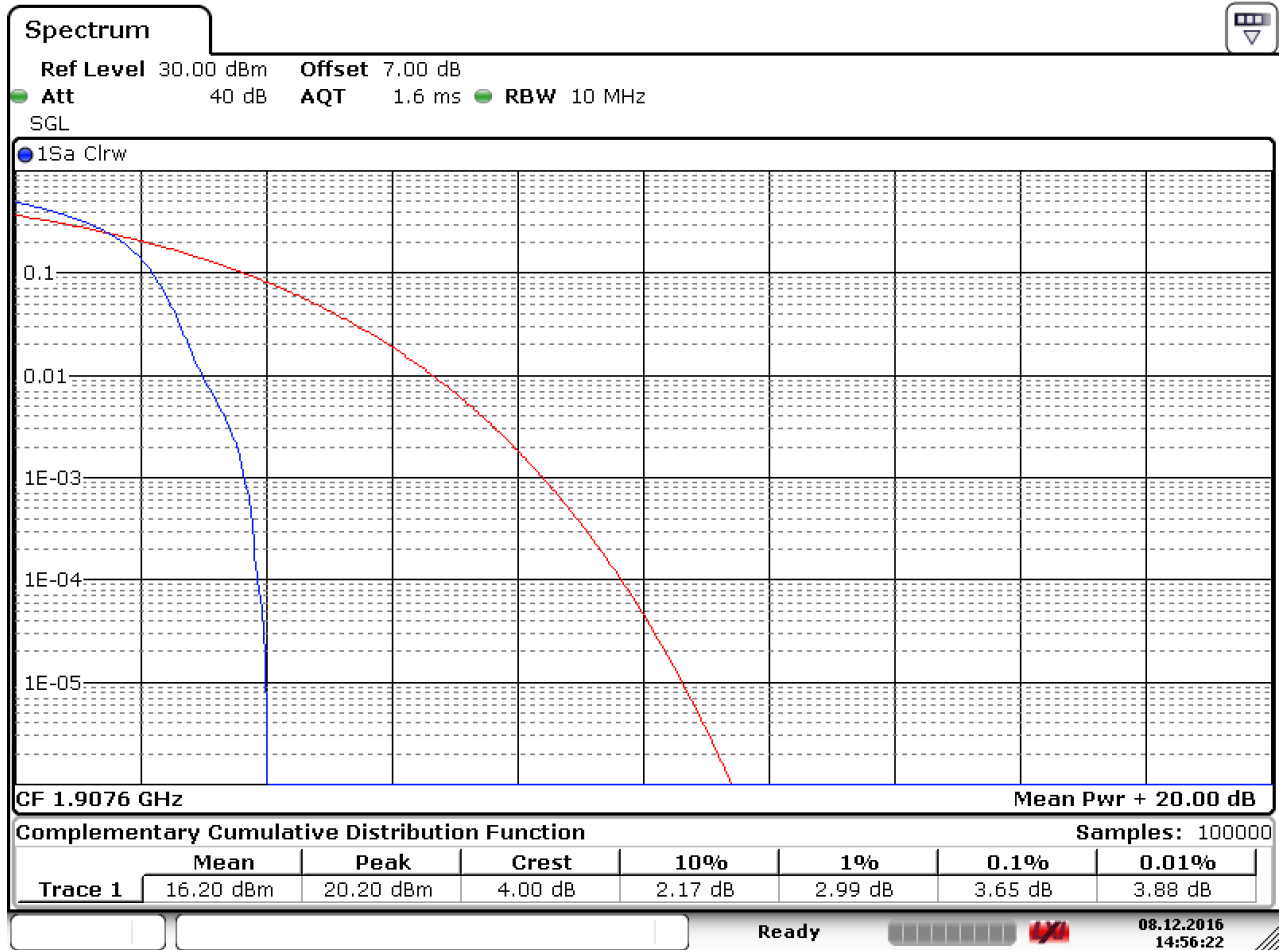


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2.1.1.1.3 Test Channel = HCH



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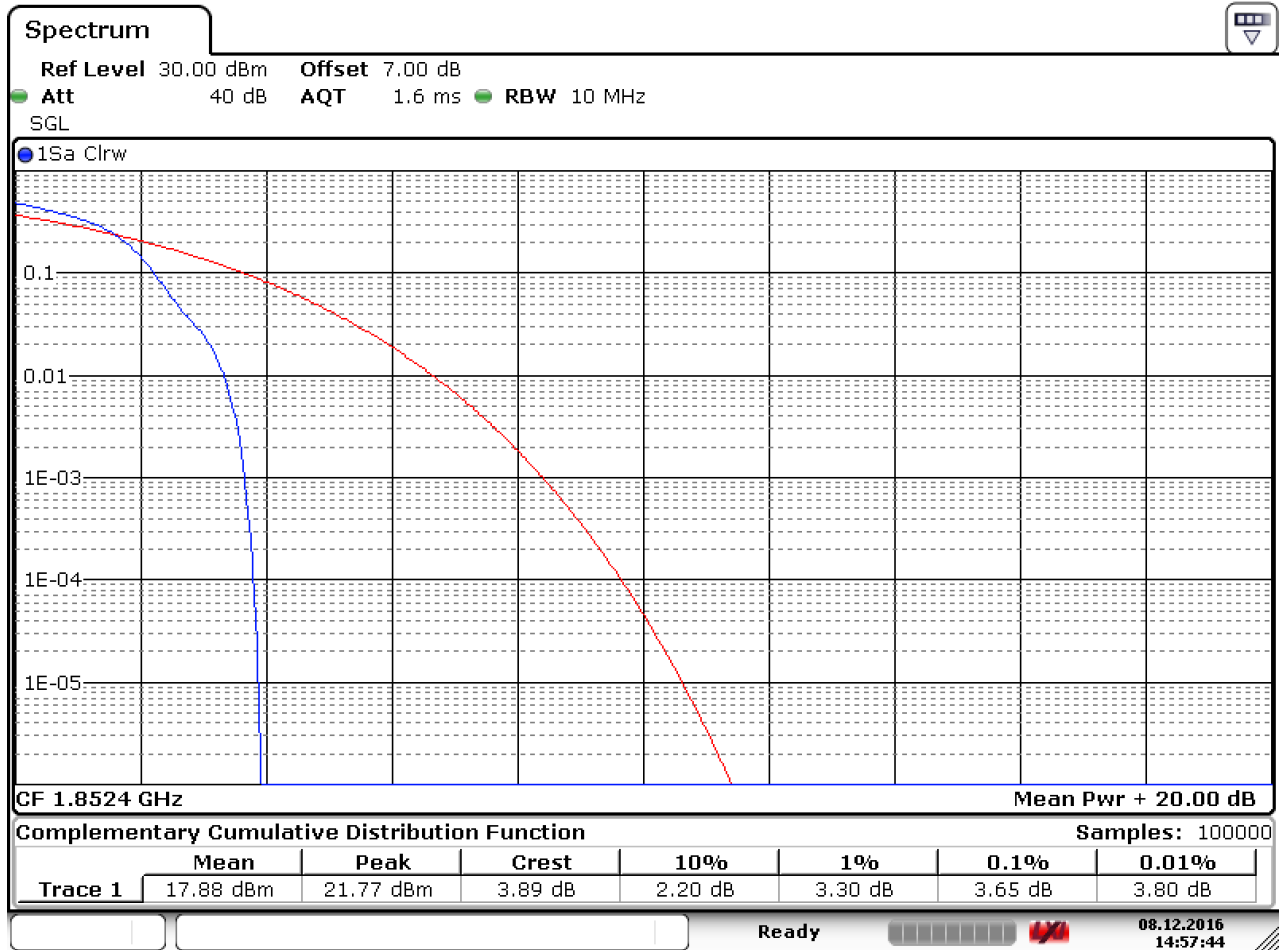
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**2.1.1.2 Test Mode = UMTS/TM2**

**2.1.1.2.1 Test Channel = LCH**

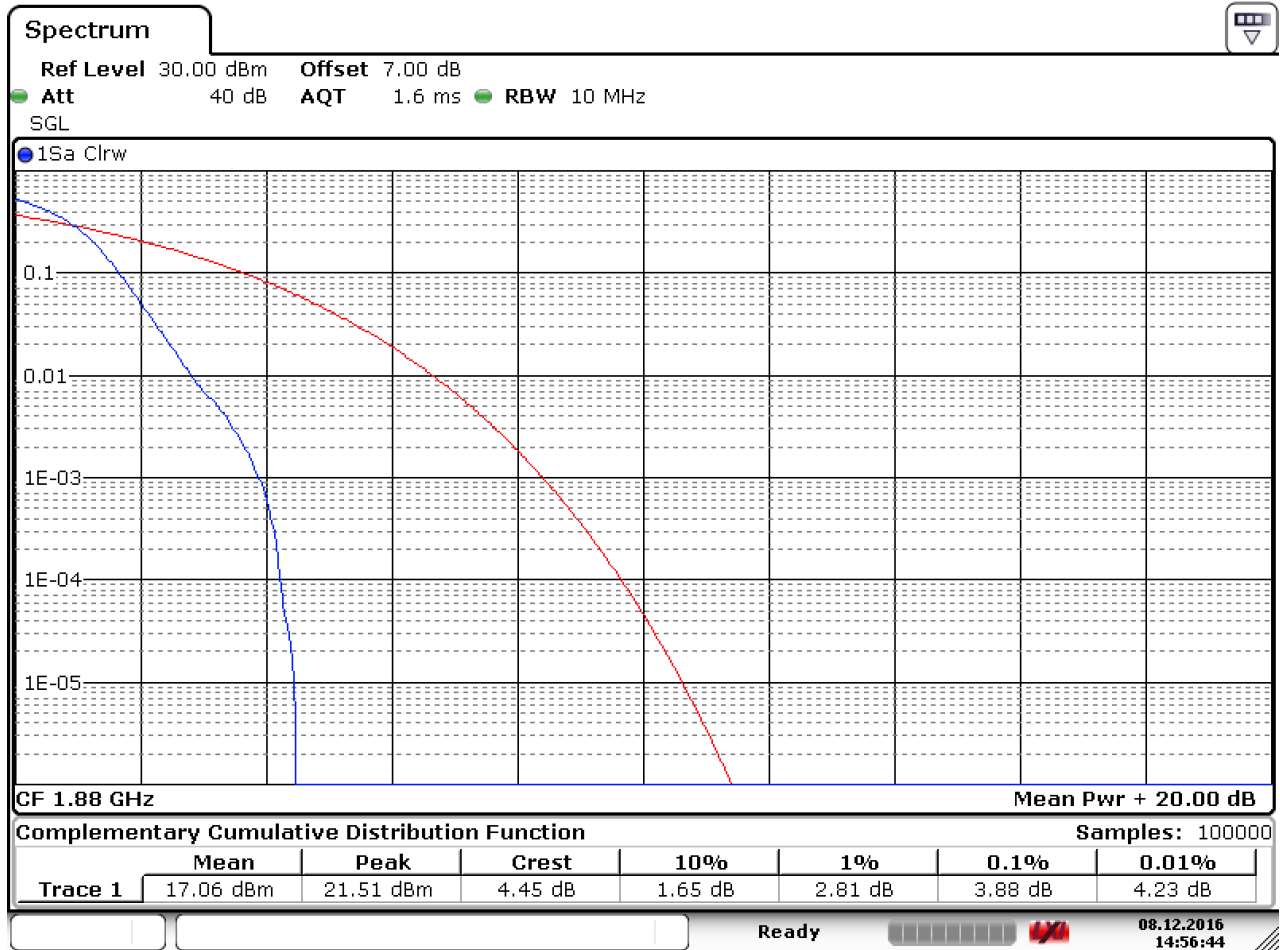


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**2.1.1.2.2 Test Channel = MCH**

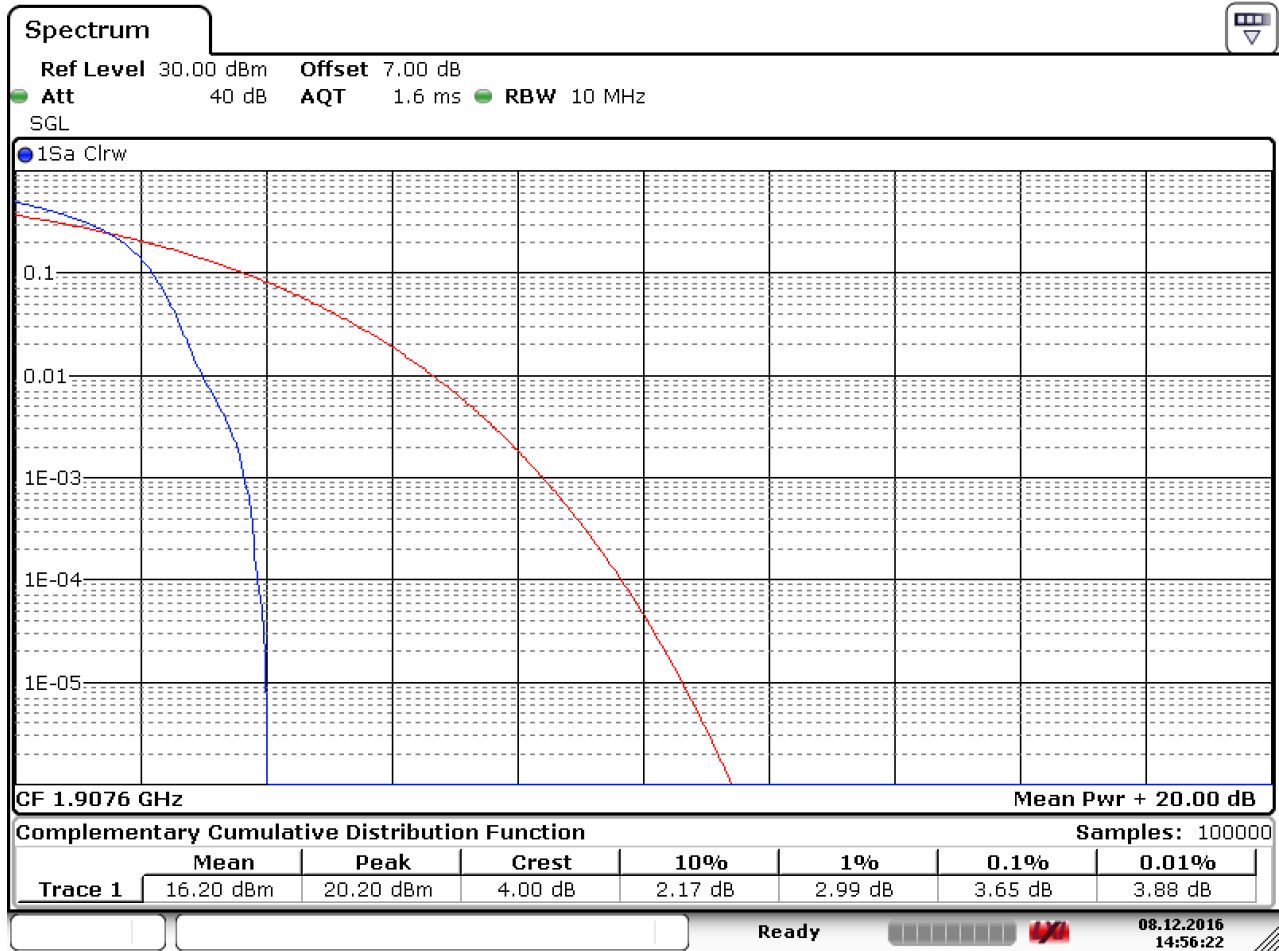


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2.1.1.2.3 Test Channel = HCH



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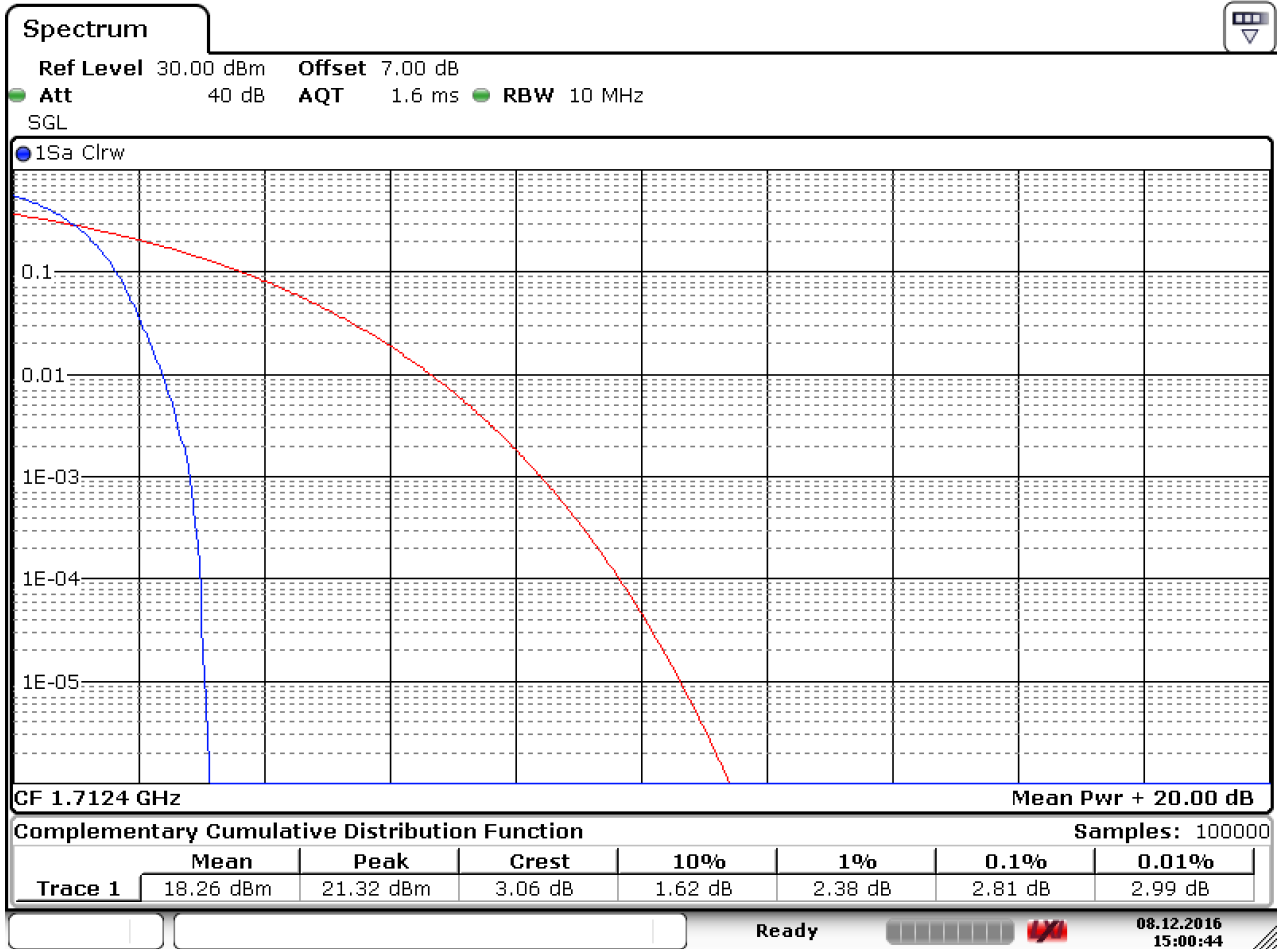
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**2.1.2 Test Band = WCDMA 1700**

**2.1.2.1 Test Mode = UMTS/TM1**

**2.1.2.1.1 Test Channel = LCH**

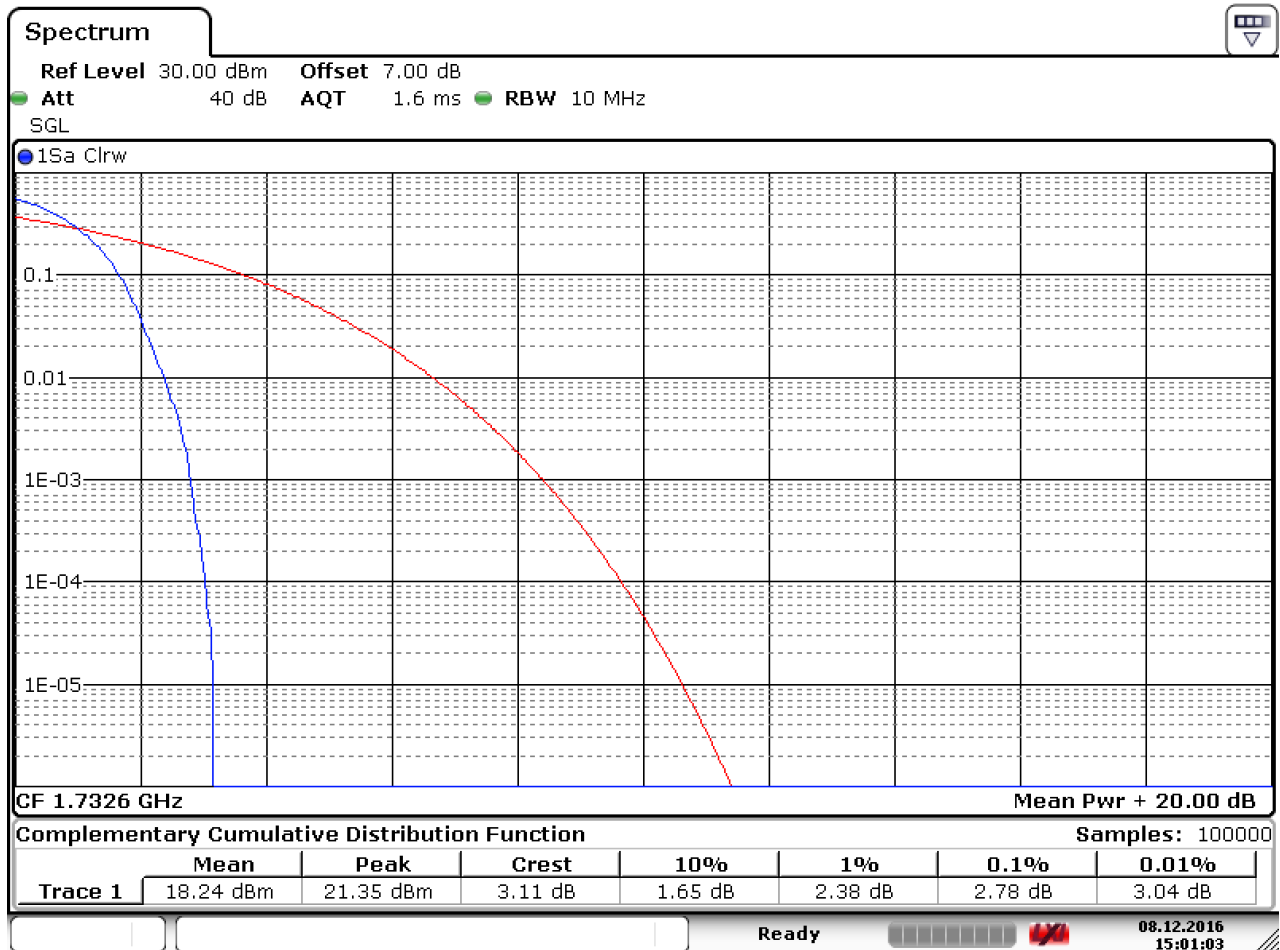


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2.1.2.1.2 Test Channel = MCH

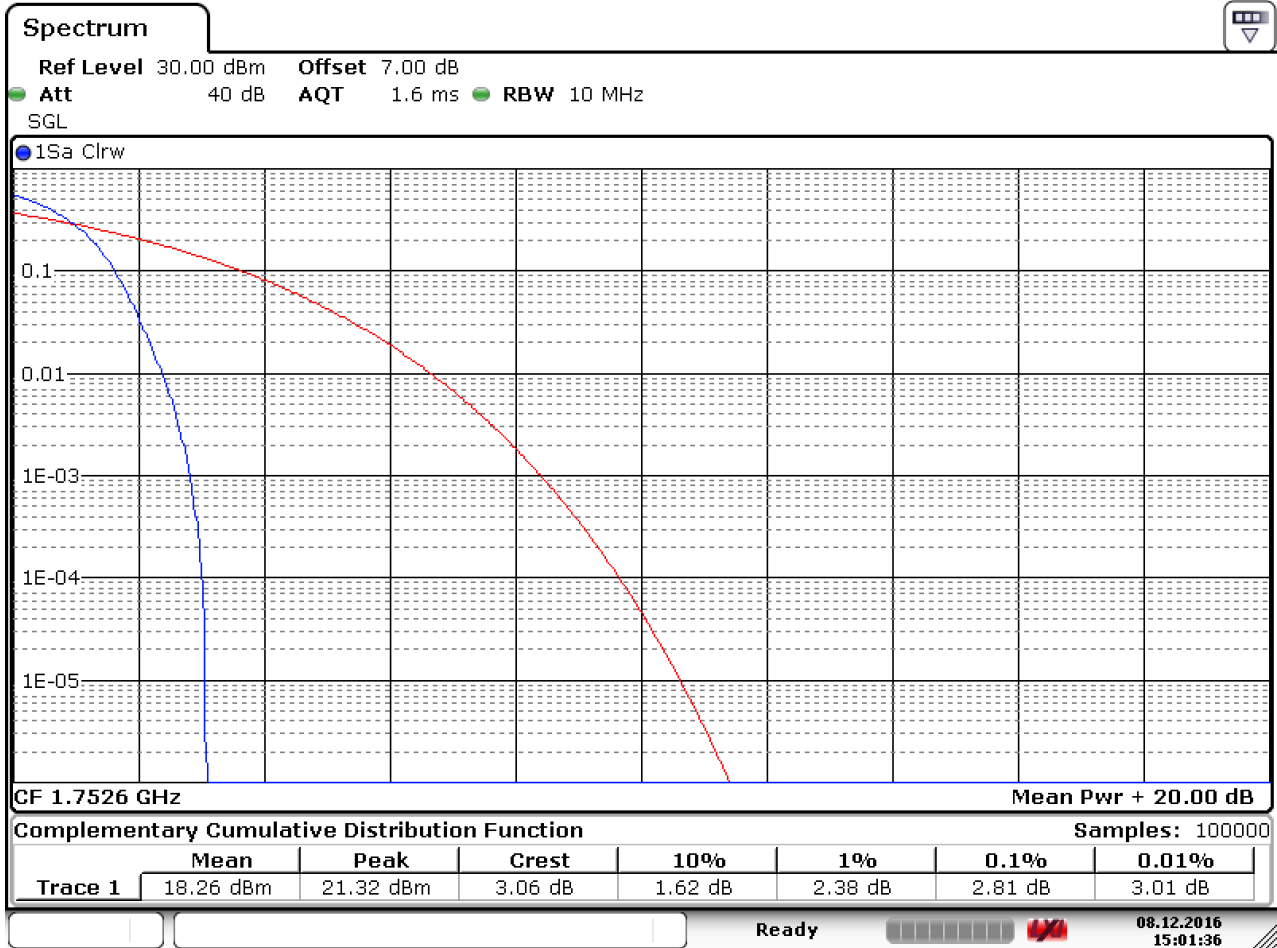


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**2.1.2.1.3 Test Channel = HCH**



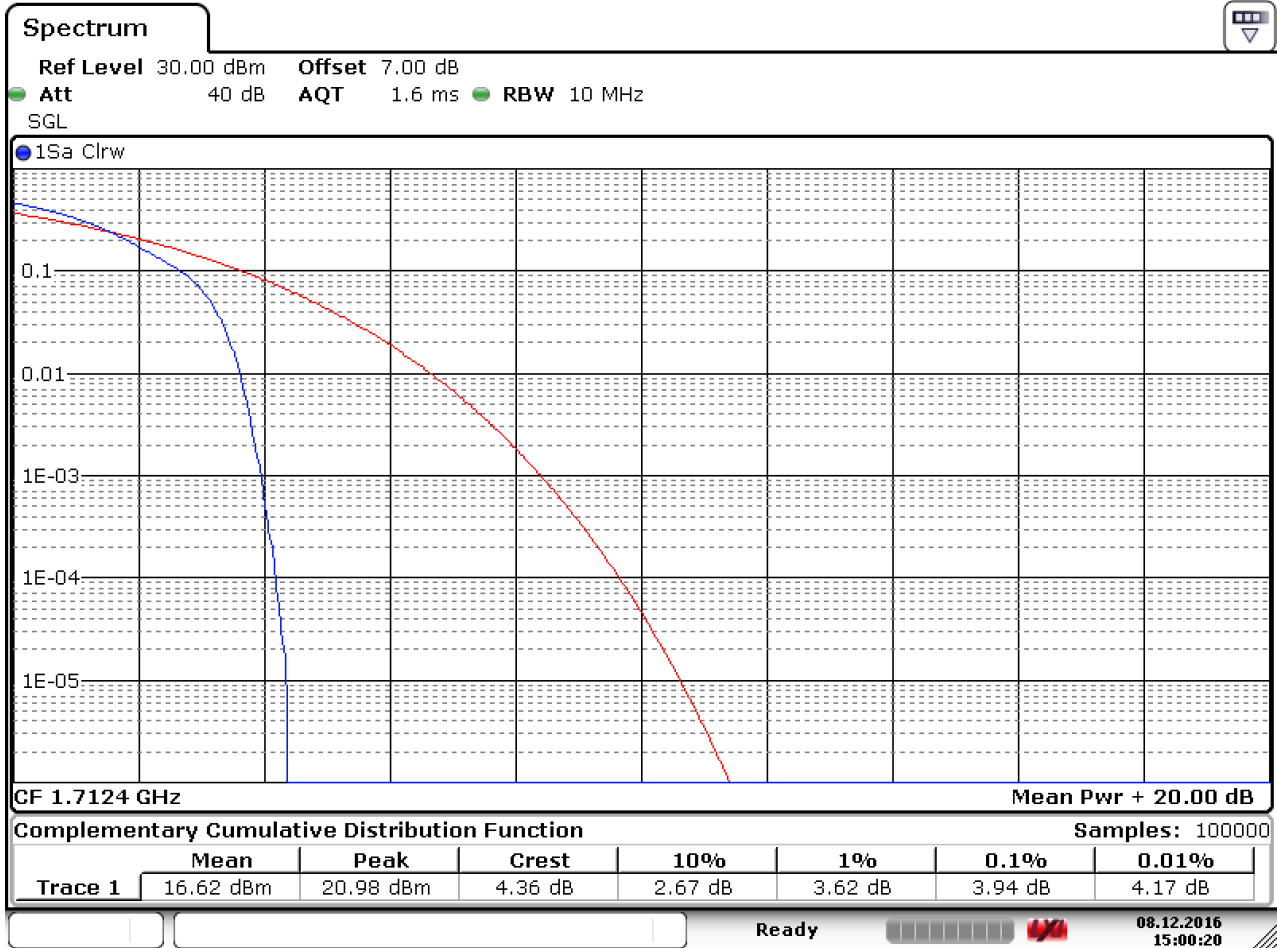
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**2.1.2.2 Test Mode = UMTS/TM2**

**2.1.2.2.1 Test Channel = LCH**

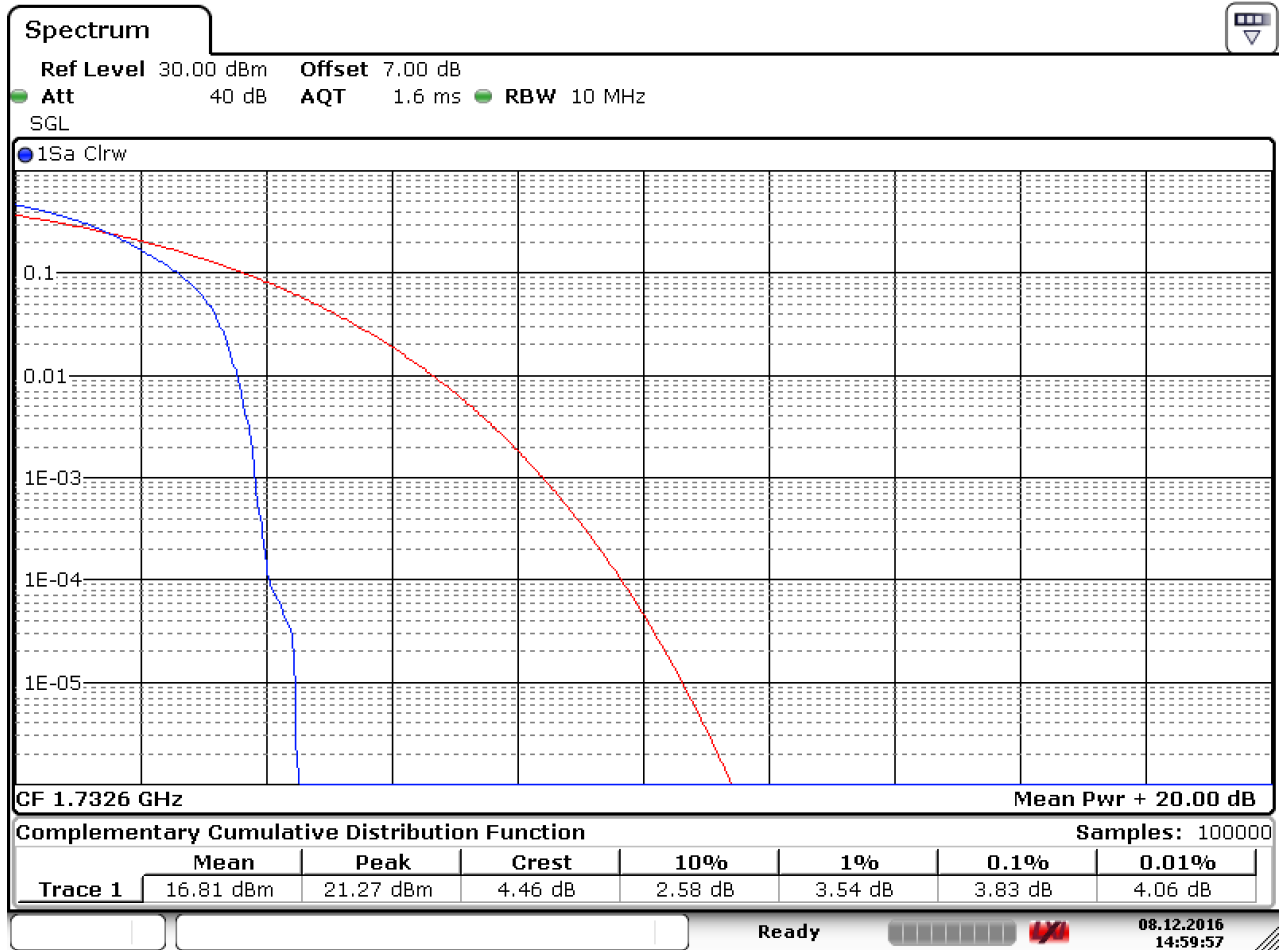


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**2.1.2.2.2 Test Channel = MCH**



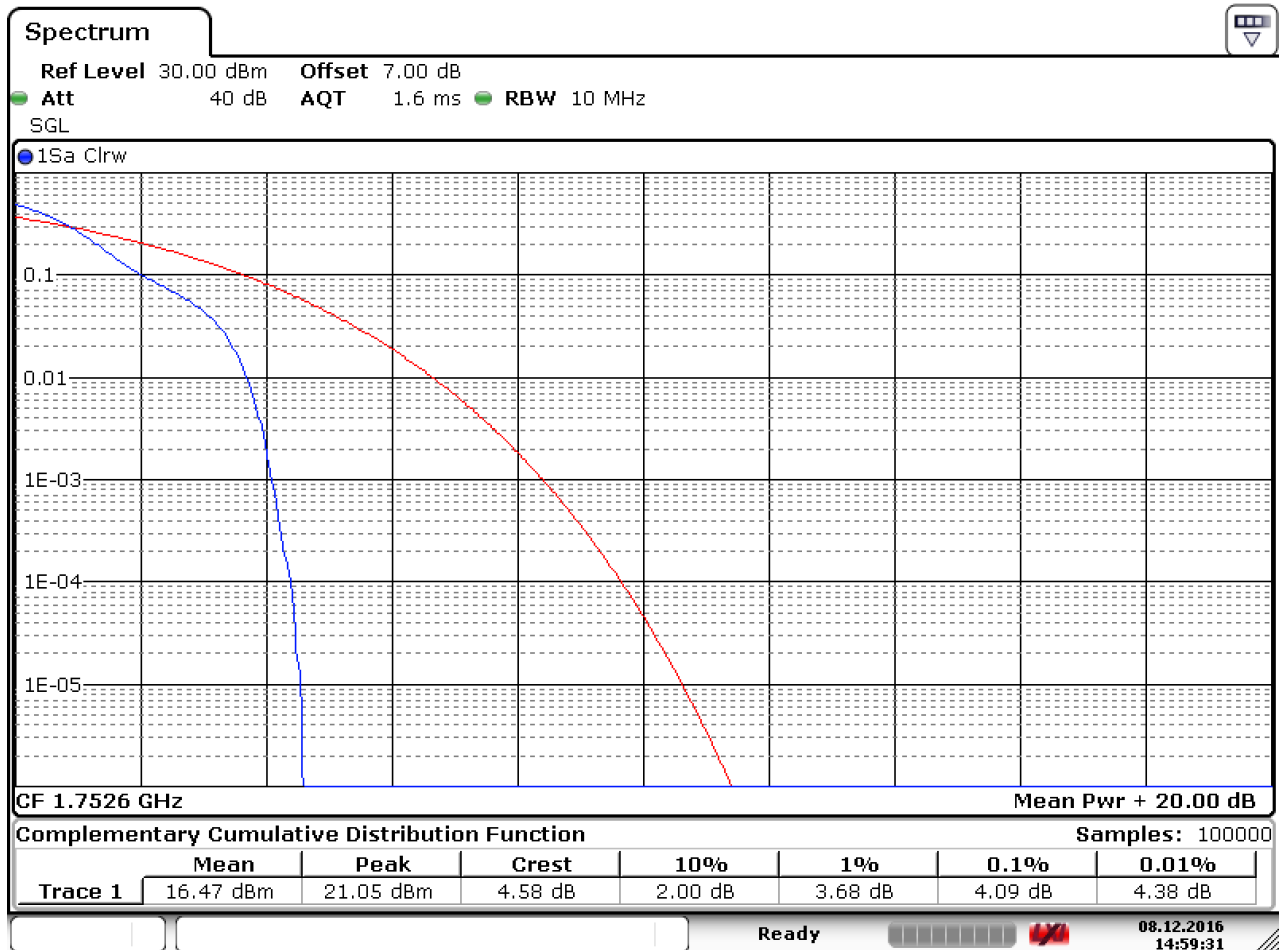
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2.1.2.2.3 Test Channel = HCH



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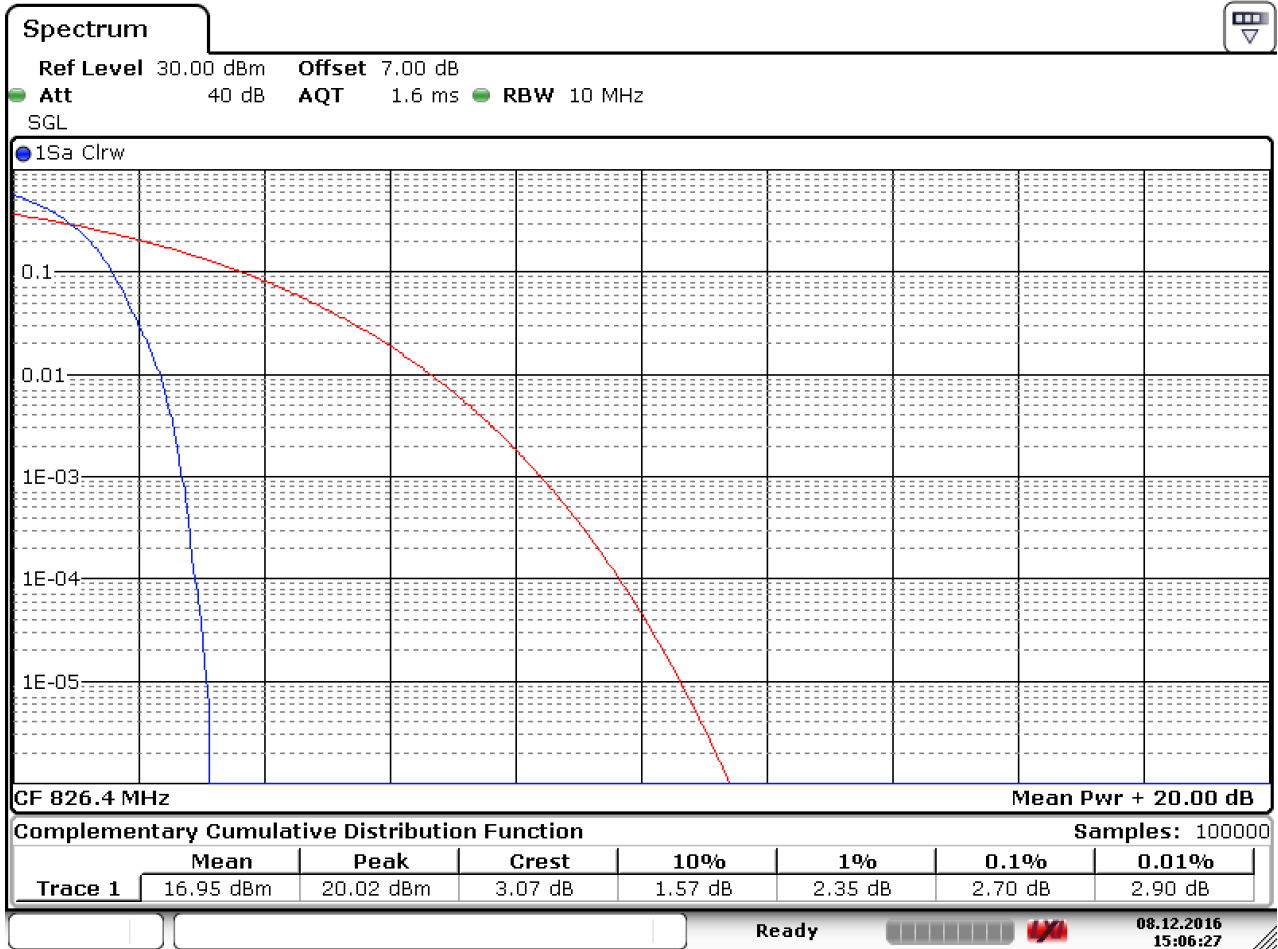
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2.1.3 Test Band = WCDMA 850

2.1.3.1 Test Mode = UMTS/TM1

2.1.3.1.1 Test Channel = LCH

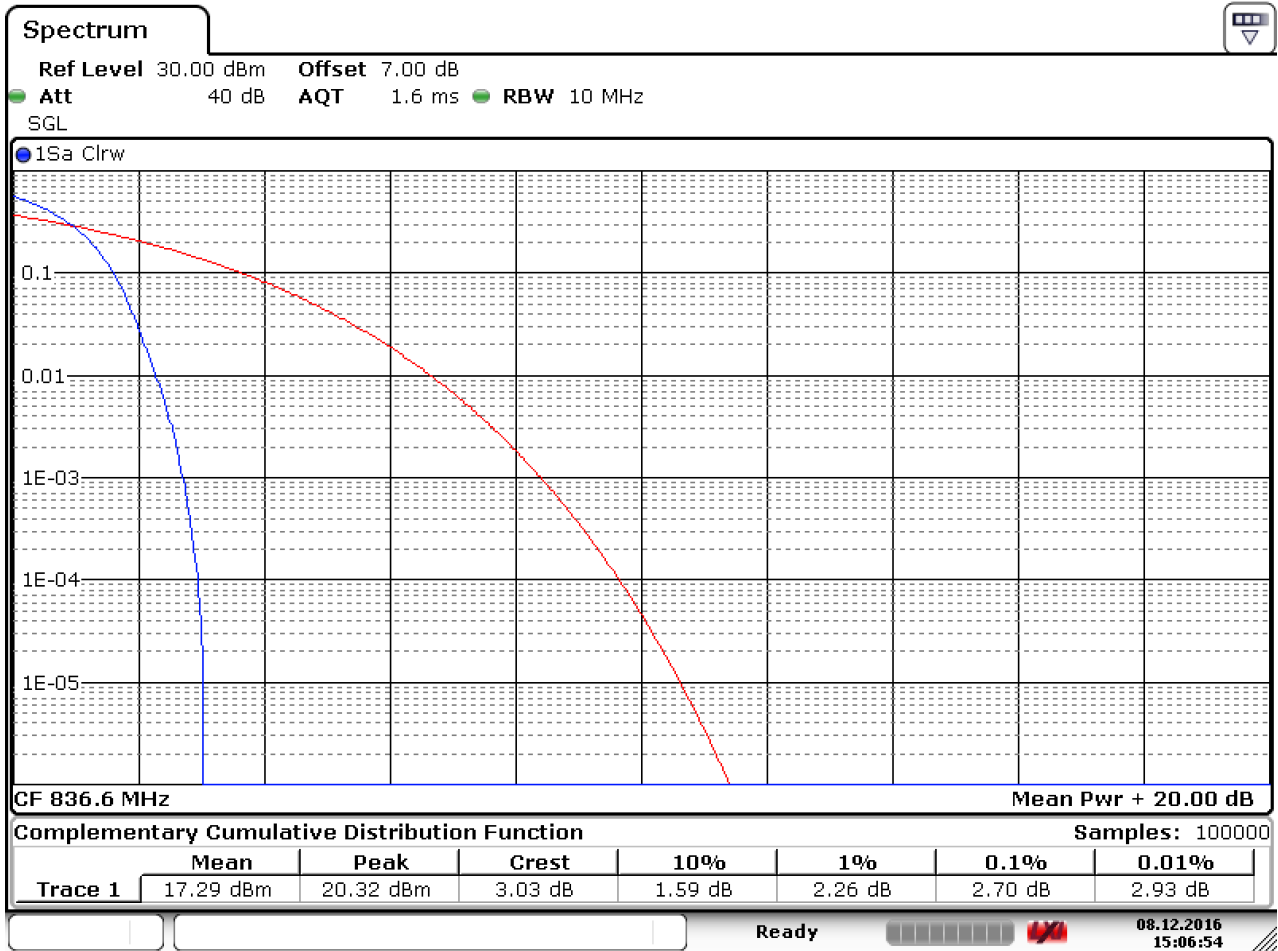


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2.1.3.1.2 Test Channel = MCH

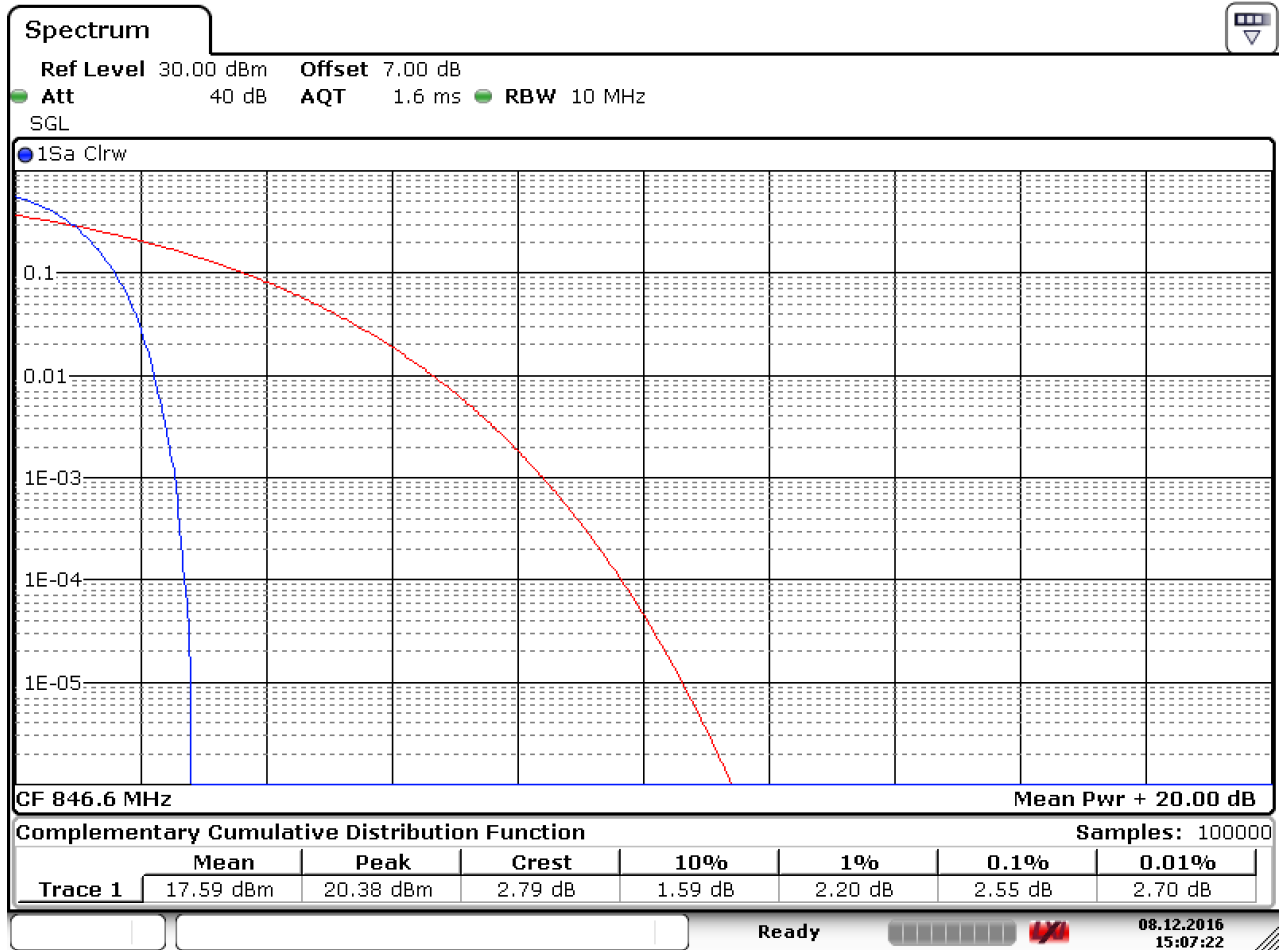


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**2.1.3.1.3 Test Channel = HCH**



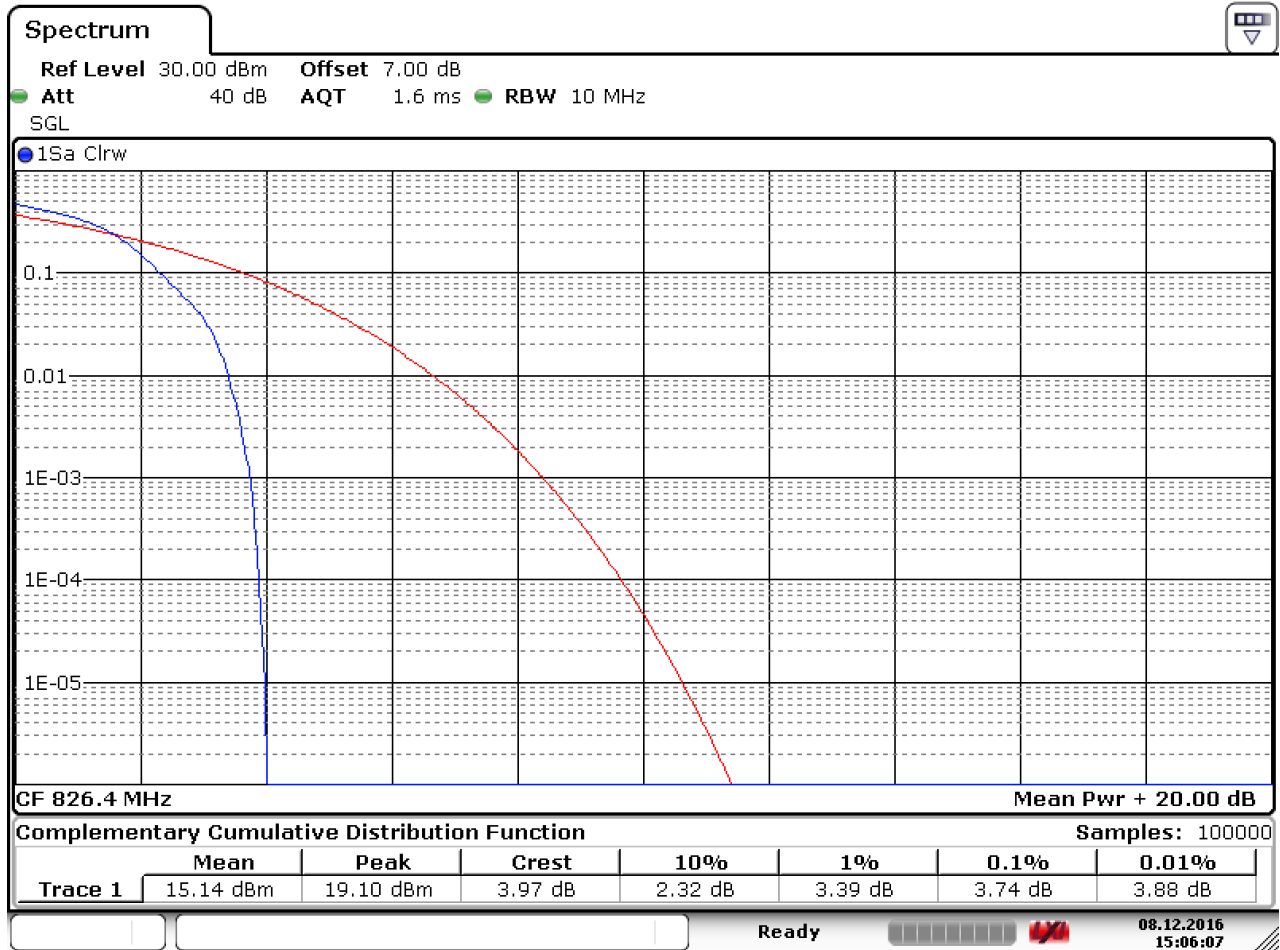
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**2.1.3.2 Test Mode = UMTS/TM2**

**2.1.3.2.1 Test Channel = LCH**

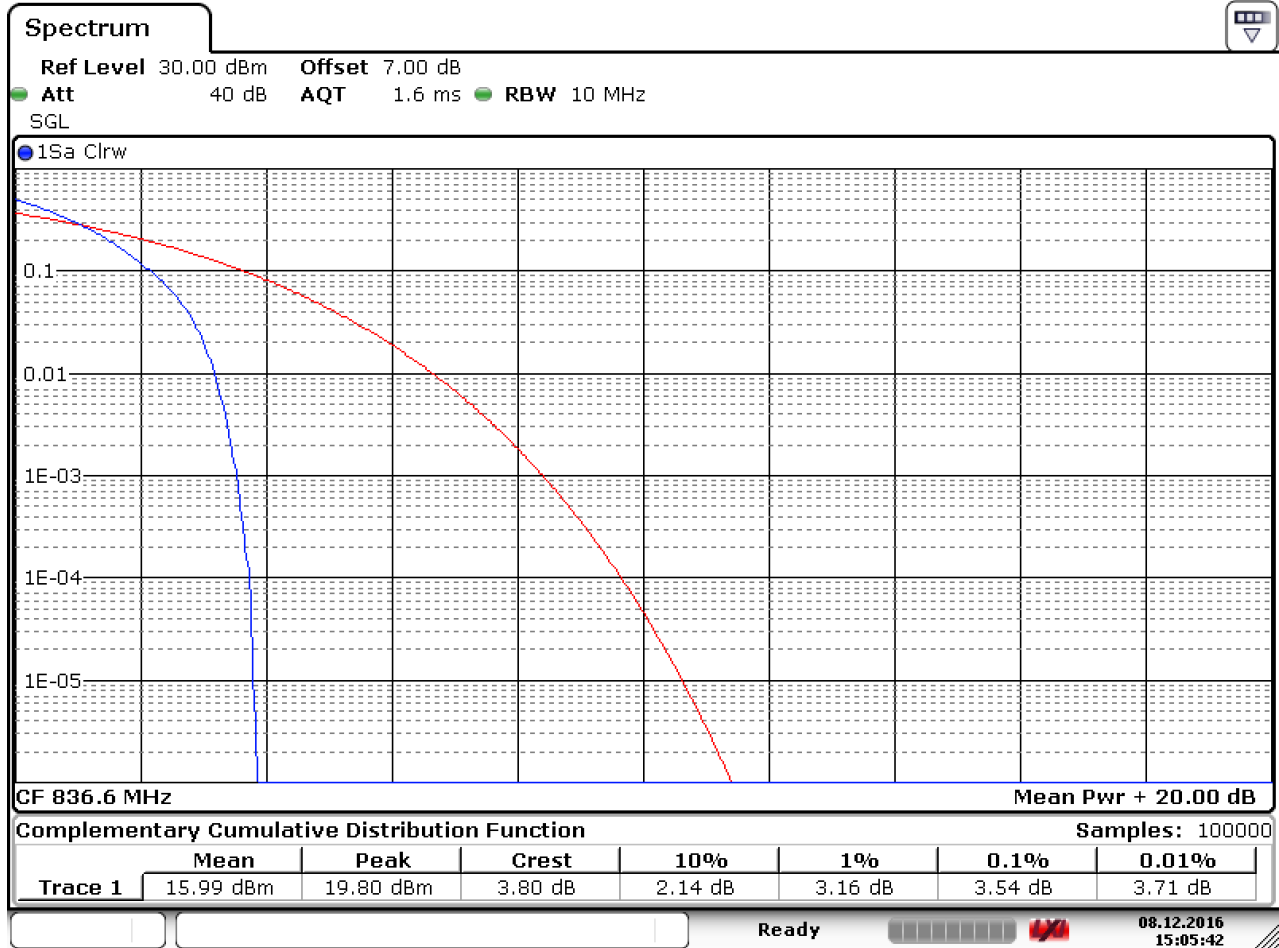


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**2.1.3.2.2 Test Channel = MCH**

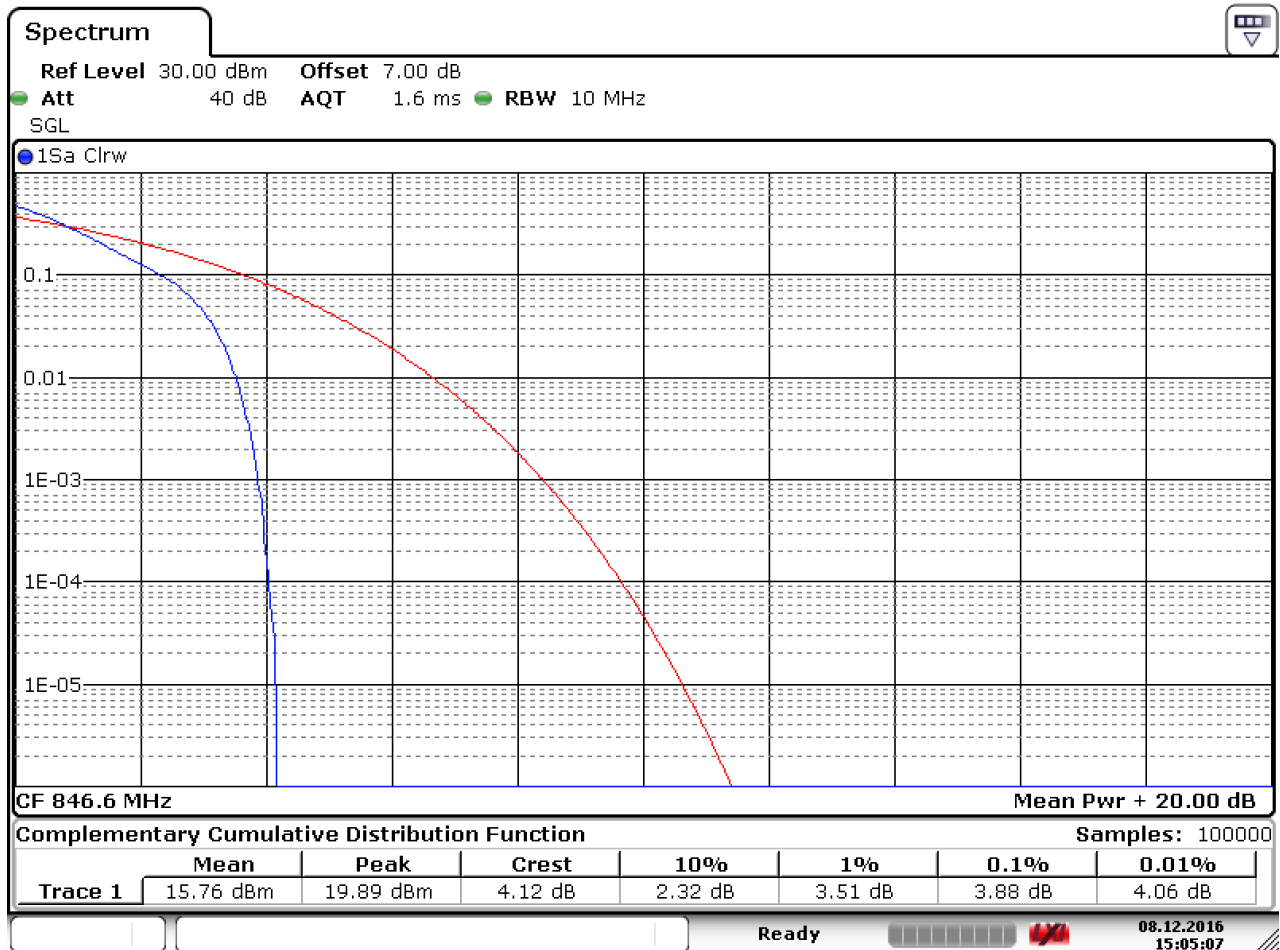


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2.1.3.2.3 Test Channel = HCH



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### 3 Modulation Characteristics

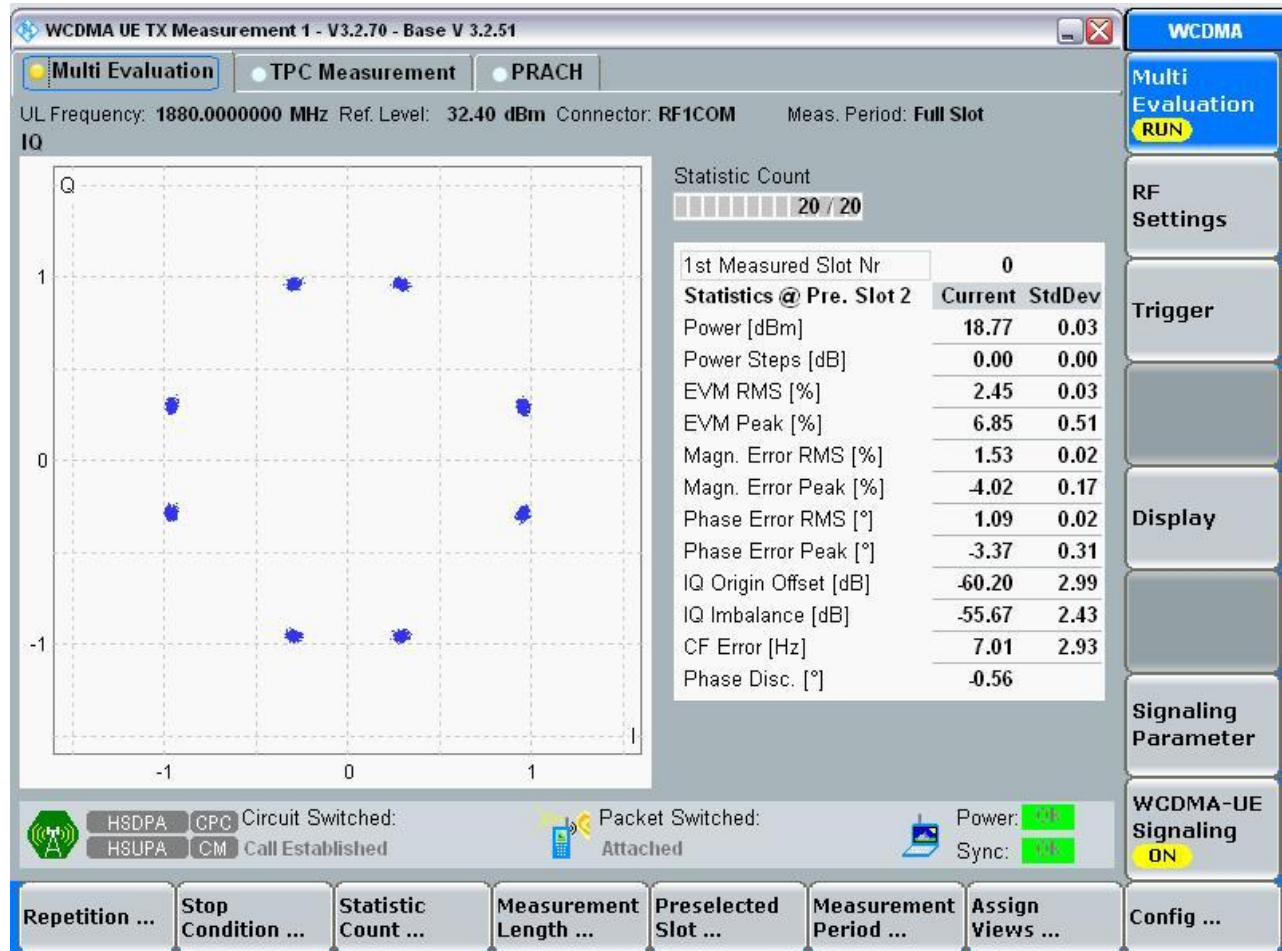
#### Part I - Test Plots

#### 3.1 For WCDMA

##### 3.1.1 Test Band = WCDMA 1900

##### 3.1.1.1 Test Mode = UMTS/TM1

##### 3.1.1.1.1 Test Channel = MCH

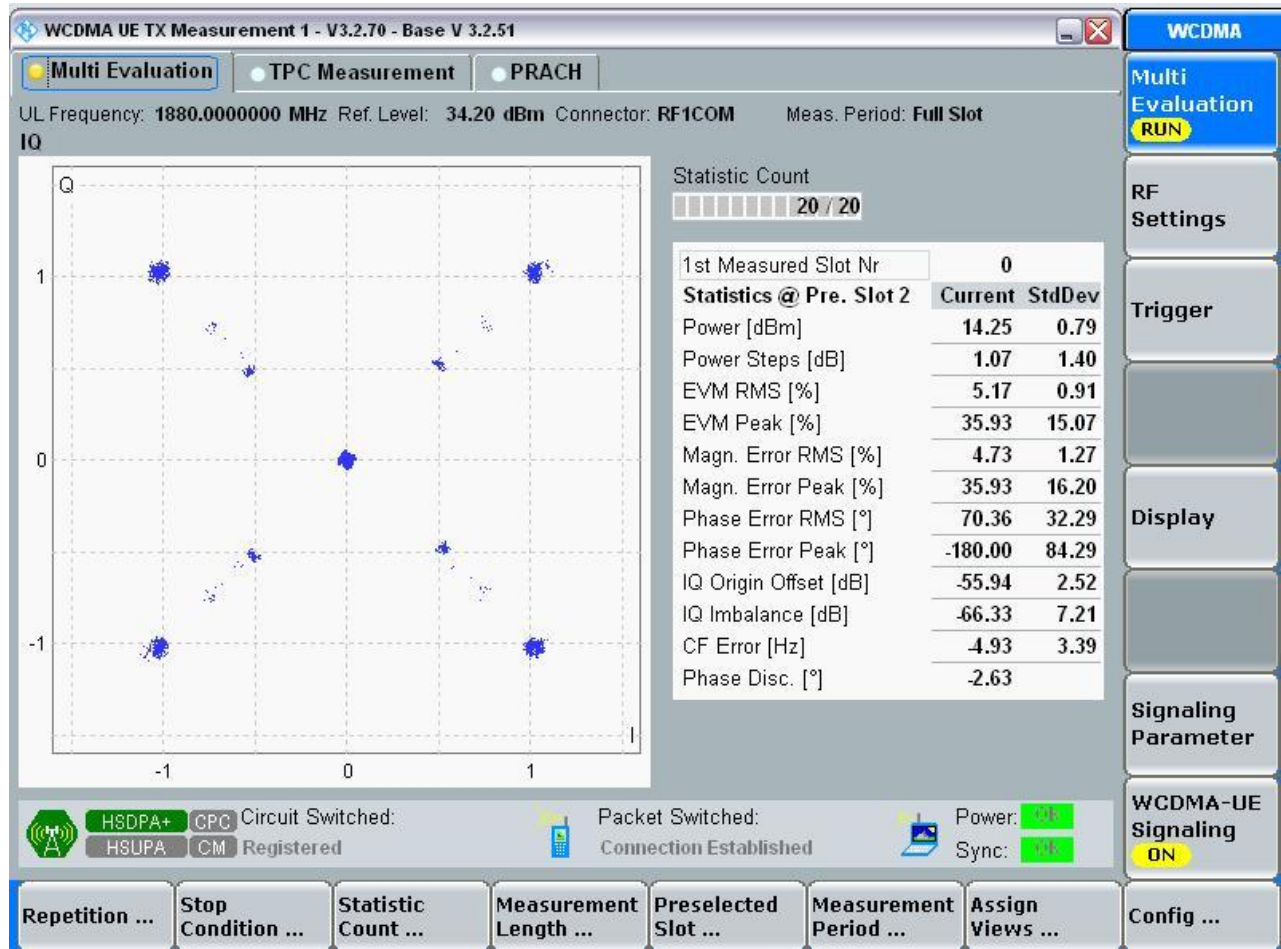






3.1.1.2 Test Mode = UMTS/TM2

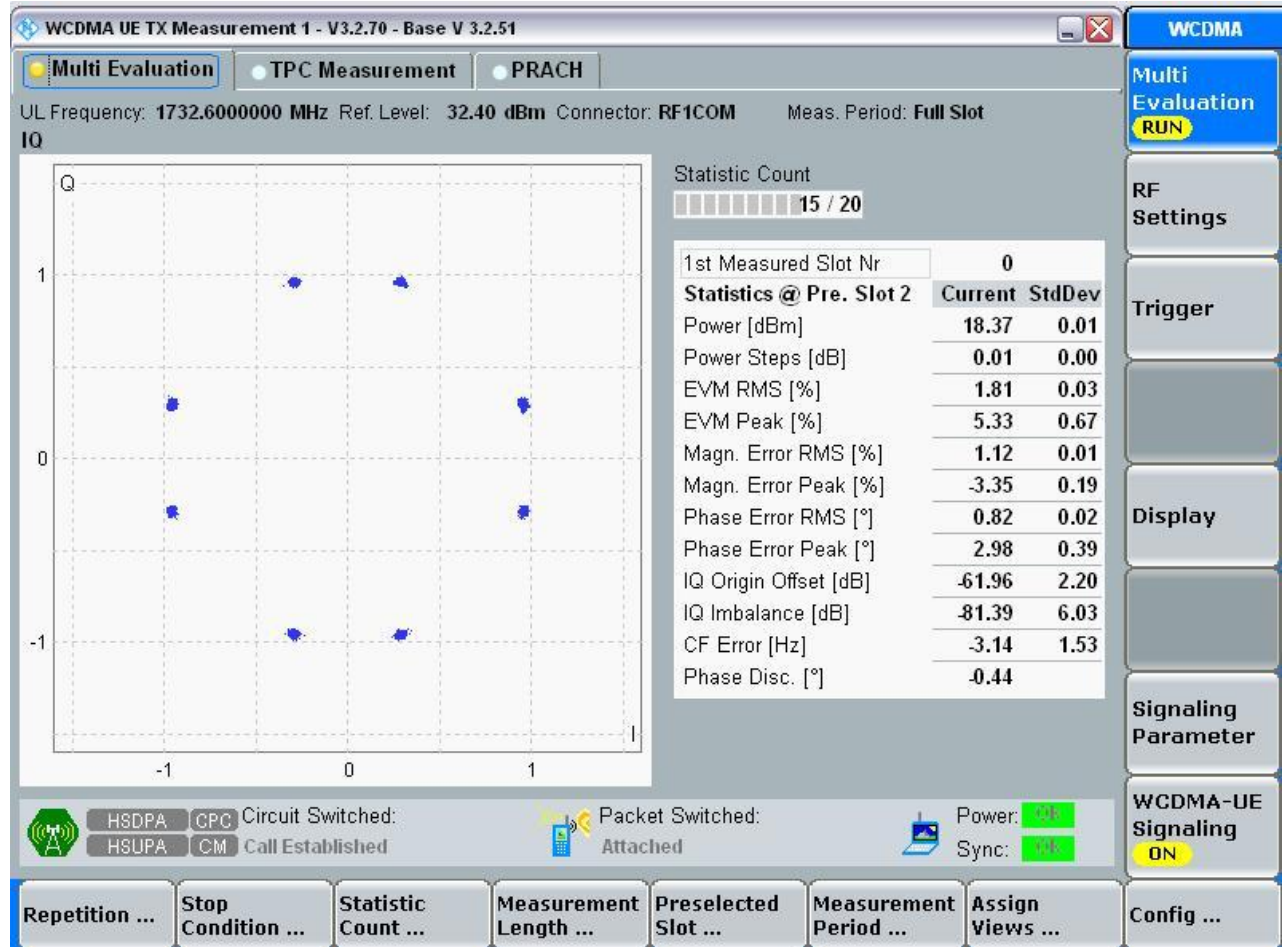
3.1.1.2.1 Test Channel = MCH



**3.1.2 Test Band = WCDMA 1700**

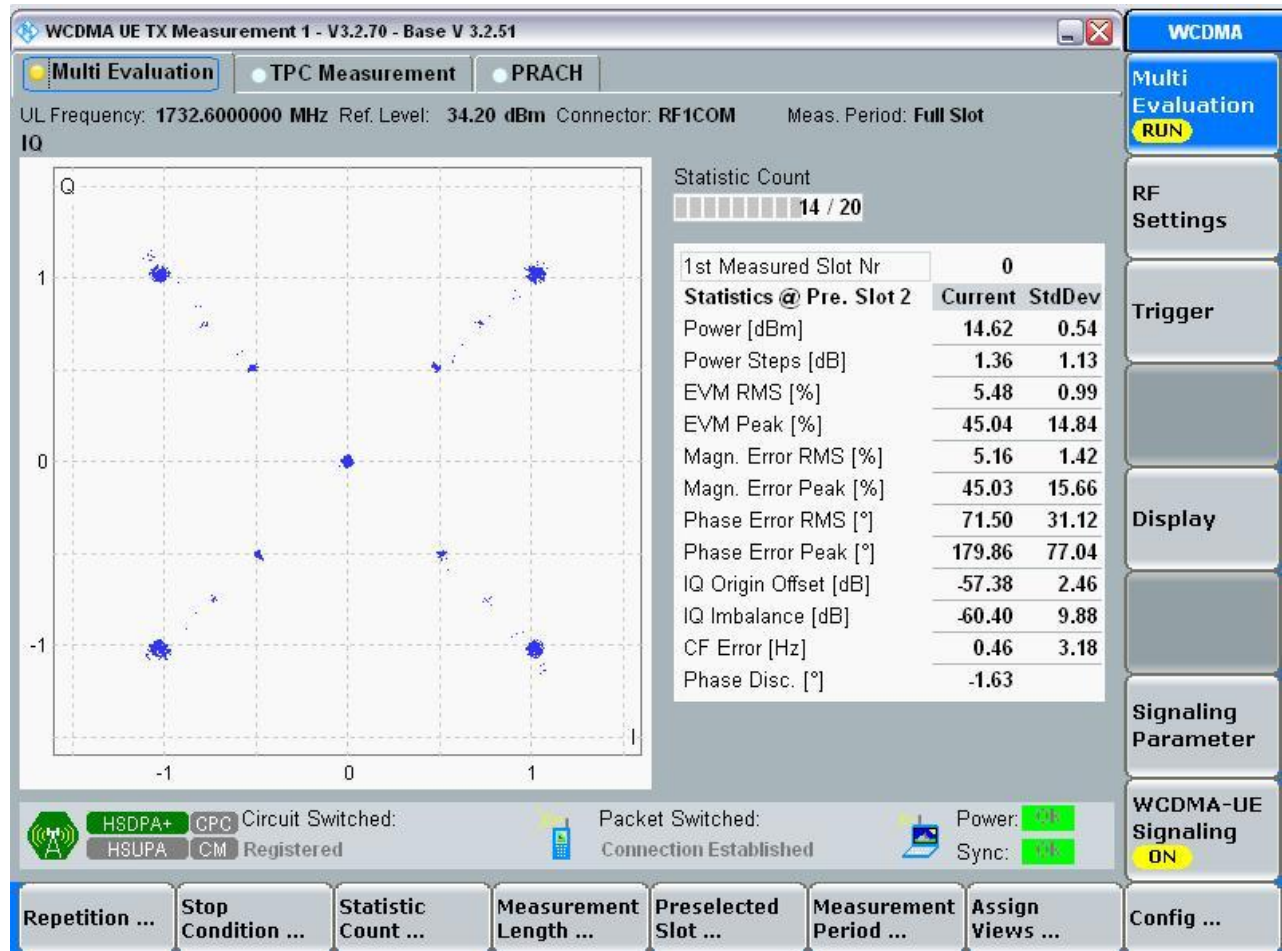
**3.1.2.1 Test Mode = UMTS /TM1**

**3.1.2.1.1 Test Channel = MCH**



**3.1.2.2 Test Mode = UMTS /TM2**

**3.1.2.2.1 Test Channel = MCH**

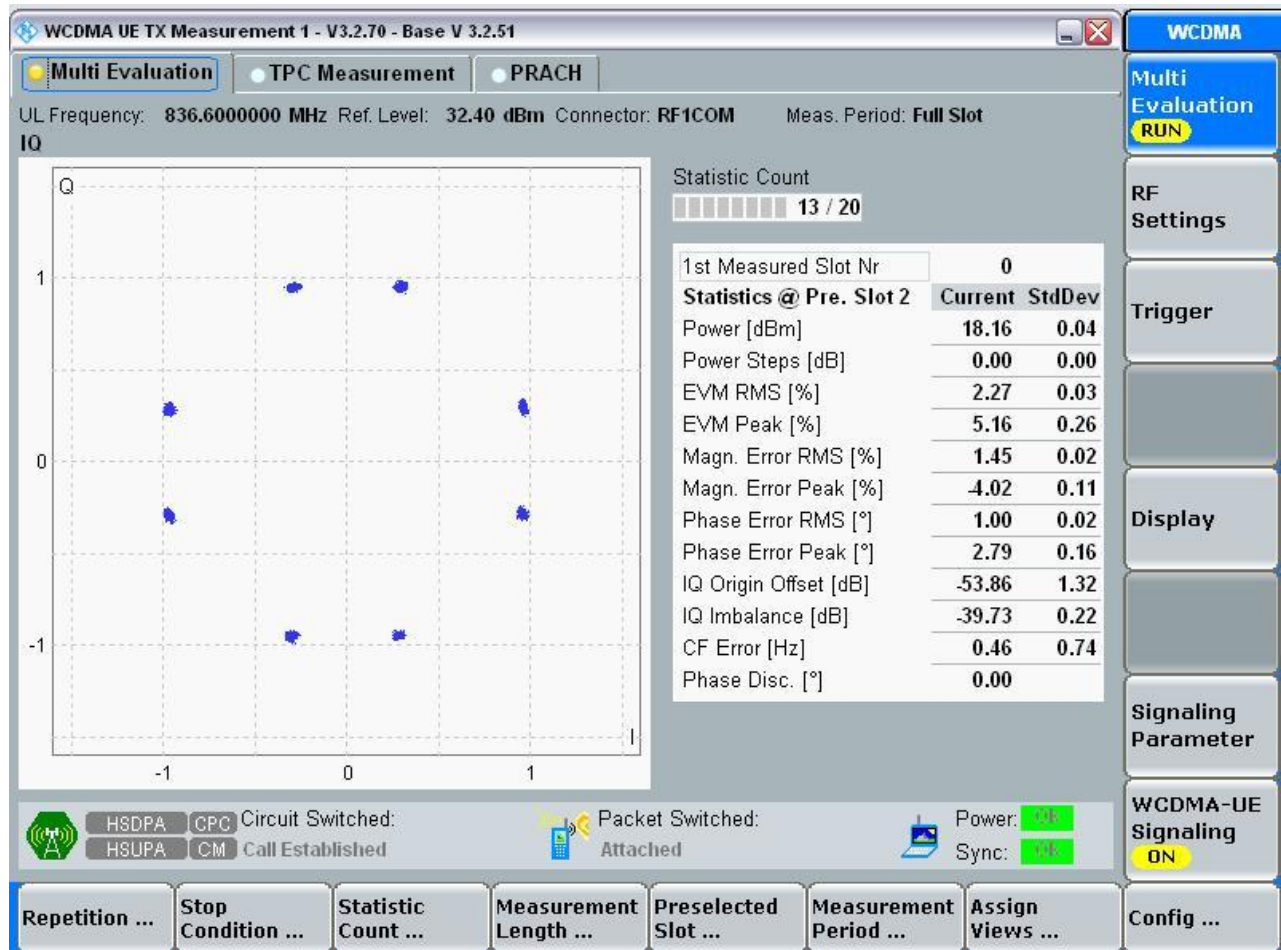




### 3.1.3 Test Band = WCDMA 850

#### 3.1.3.1 Test Mode = UMTS /TM1

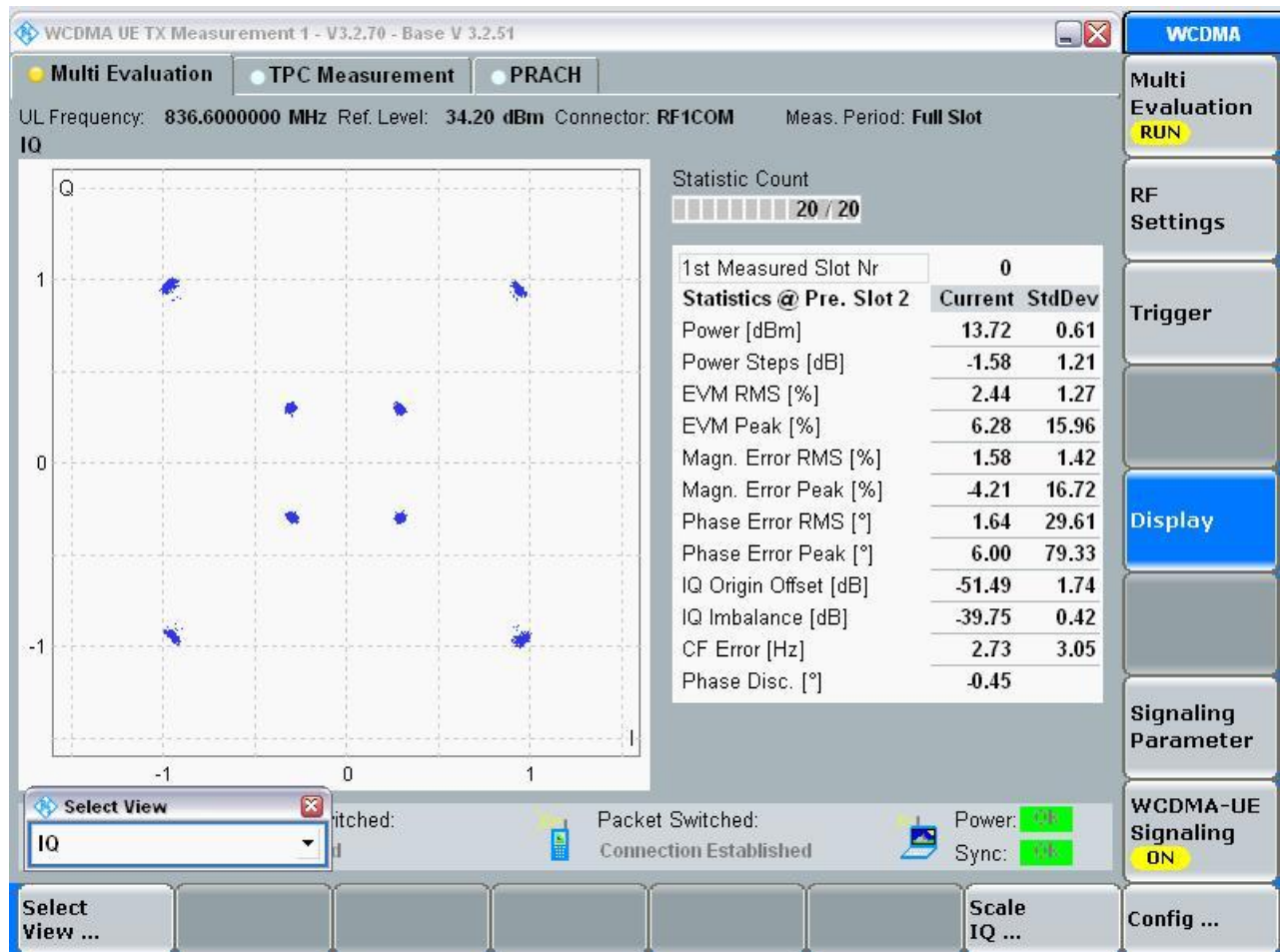
##### 3.1.3.1.1 Test Channel = MCH





**3.1.3.2 Test Mode = UMTS /TM2**

**3.1.3.2.1 Test Channel = MCH**





## 4 Bandwidth

### Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA1900	UMTS/TM1	LCH	4.21	4.88	PASS
		MCH	4.21	4.88	PASS
		HCH	4.19	4.87	PASS
	UMTS/TM2	LCH	4.21	4.91	PASS
		MCH	4.21	4.91	PASS
		HCH	4.20	4.90	PASS
WCDMA1700	UMTS/TM1	LCH	4.21	4.84	PASS
		MCH	4.22	4.86	PASS
		HCH	4.21	4.85	PASS
	UMTS/TM2	LCH	4.20	4.90	PASS
		MCH	4.21	4.90	PASS
		HCH	4.21	4.90	PASS
WCDMA850	UMTS/TM1	LCH	4.20	4.86	PASS
		MCH	4.22	4.89	PASS
		HCH	4.20	4.86	PASS
	UMTS/TM2	LCH	4.22	4.91	PASS
		MCH	4.22	4.91	PASS
		HCH	4.22	4.91	PASS

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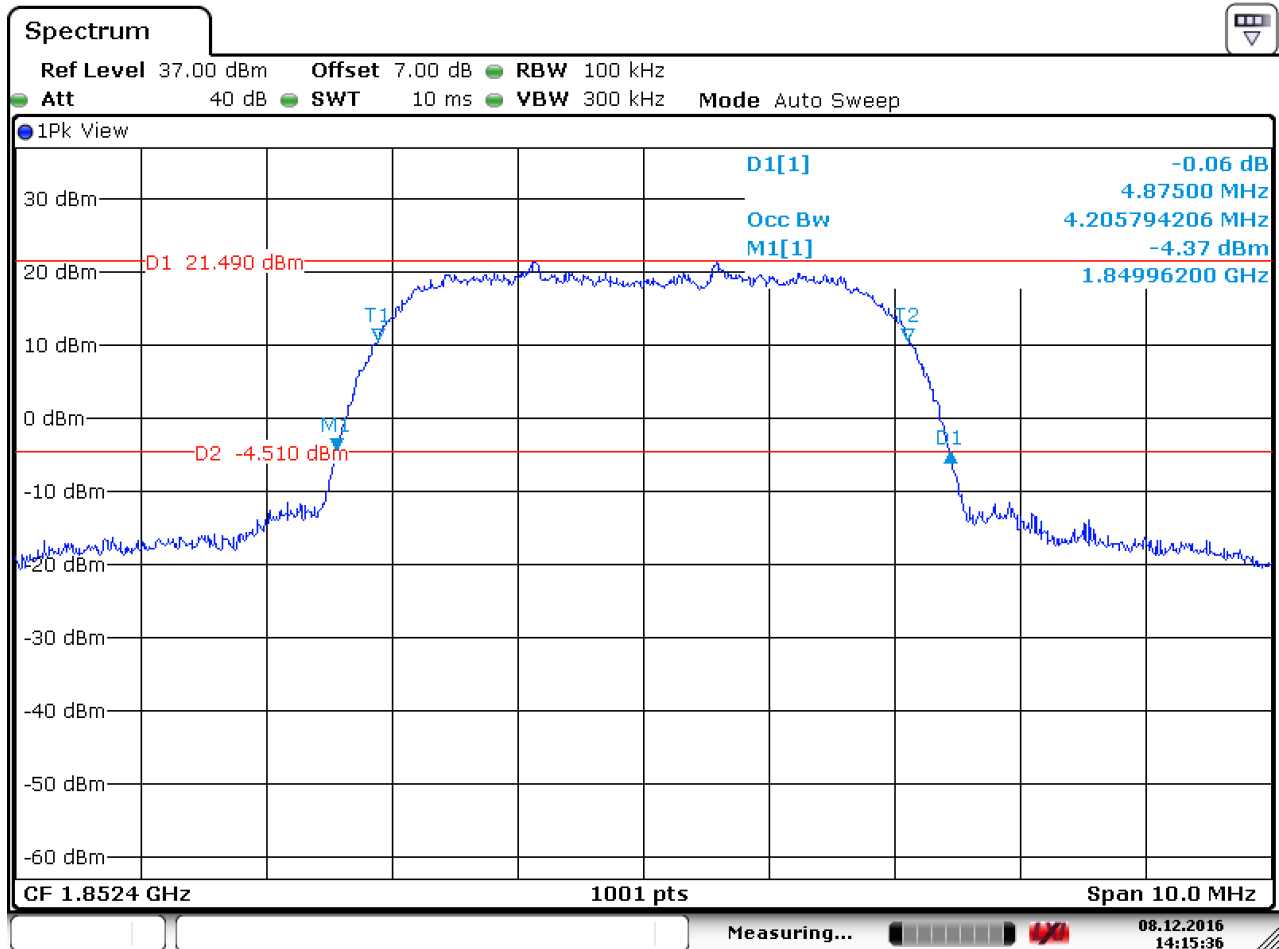


## 4.1 For WCDMA

### 4.1.1 Test Band = WCDMA 1900

#### 4.1.1.1 Test Mode = UMTS/TM1

##### 4.1.1.1.1 Test Channel = LCH

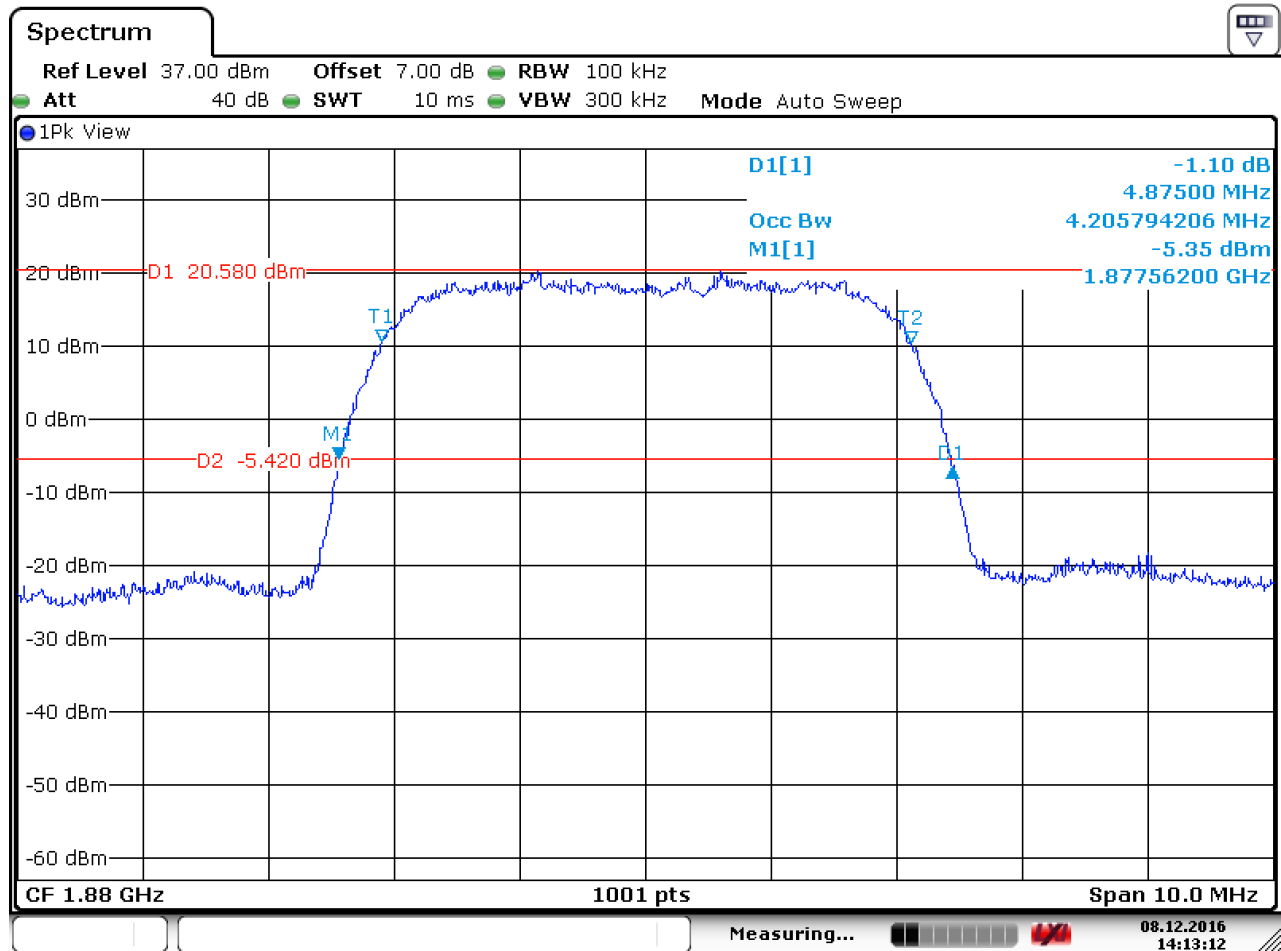


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4.1.1.1.2 Test Channel = MCH



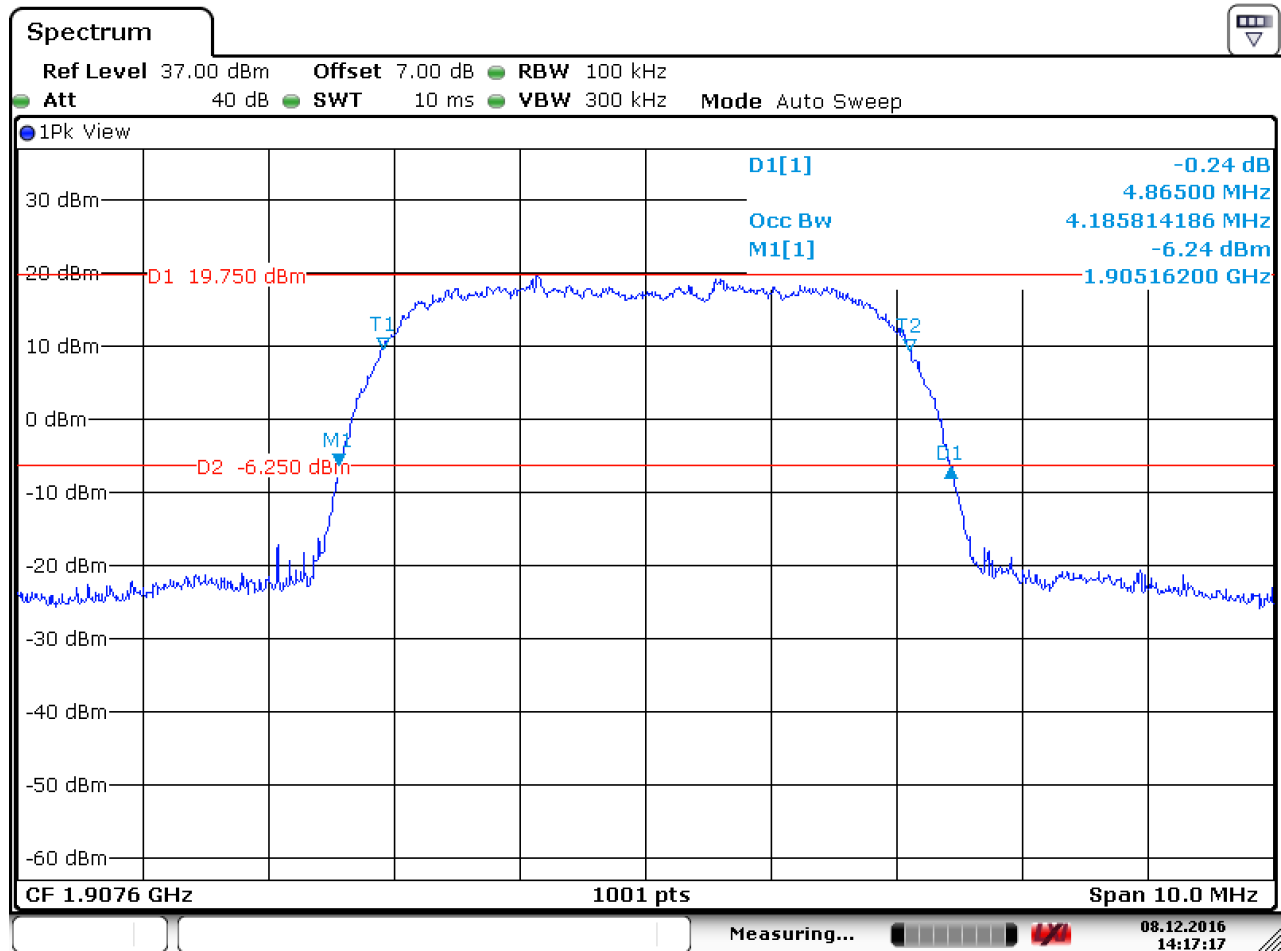
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4.1.1.1.3 Test Channel = HCH



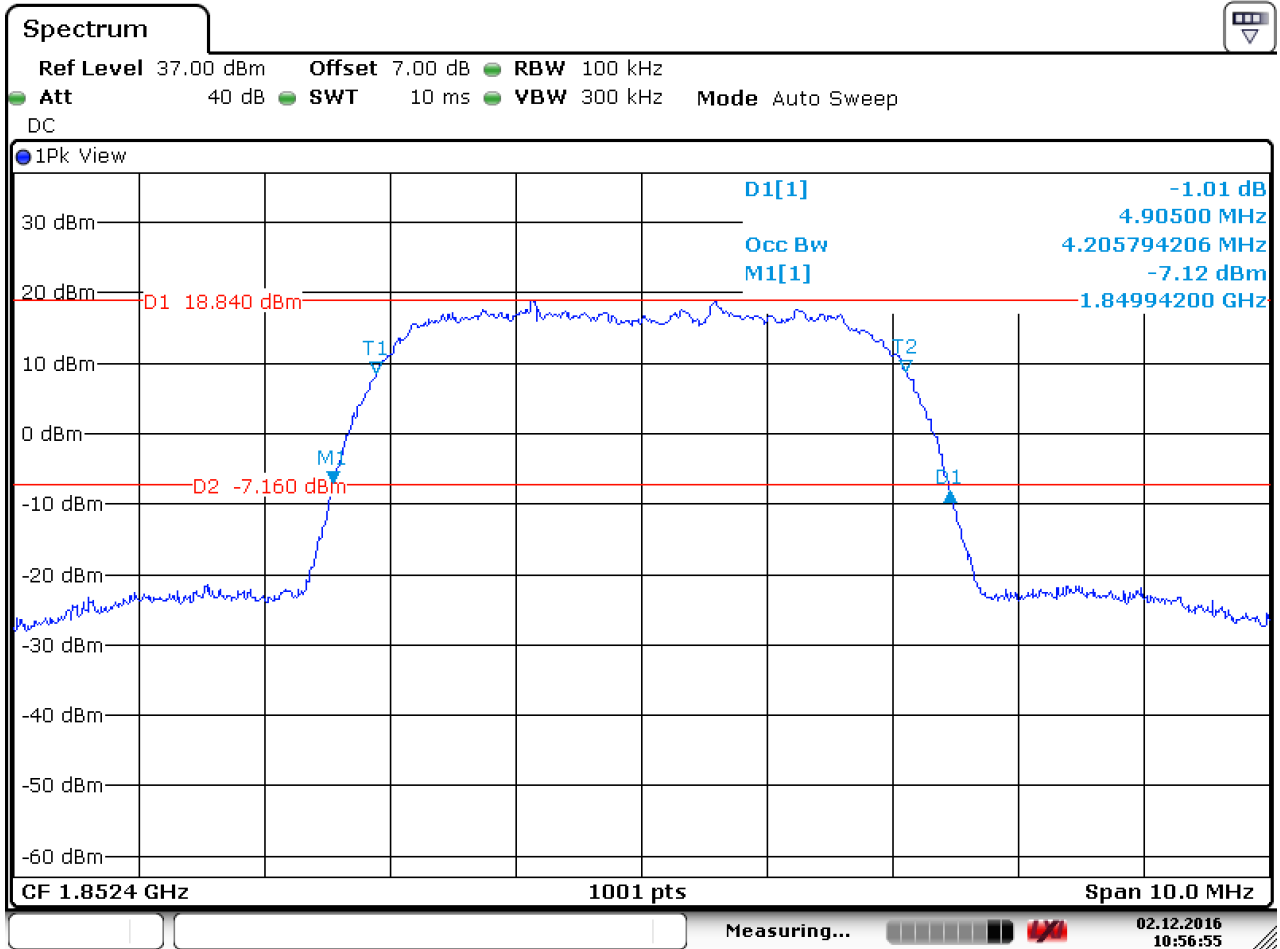
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4.1.1.2 Test Mode = UMTS/TM2

4.1.1.2.1 Test Channel = LCH

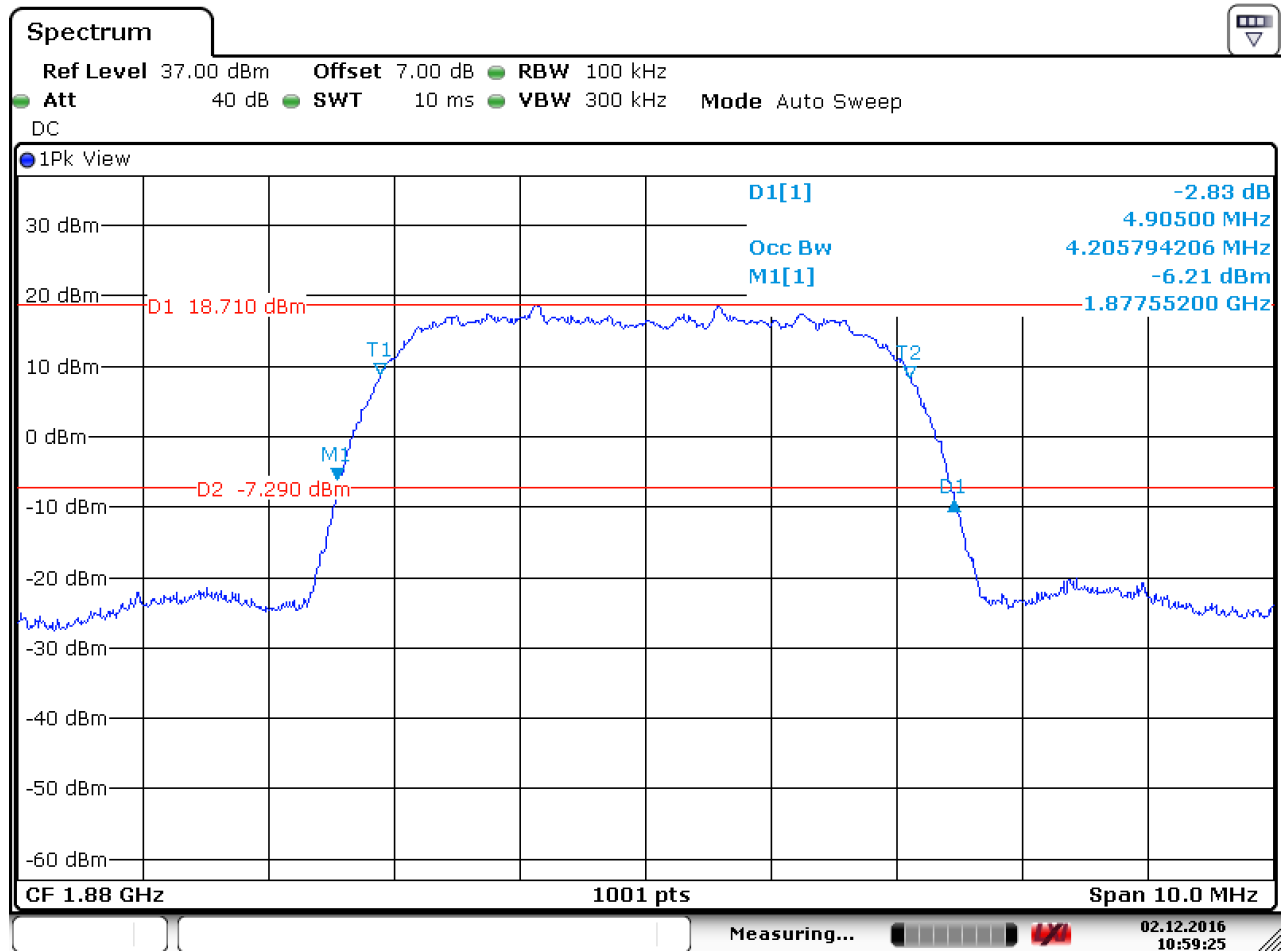


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4.1.1.2.2 Test Channel = MCH

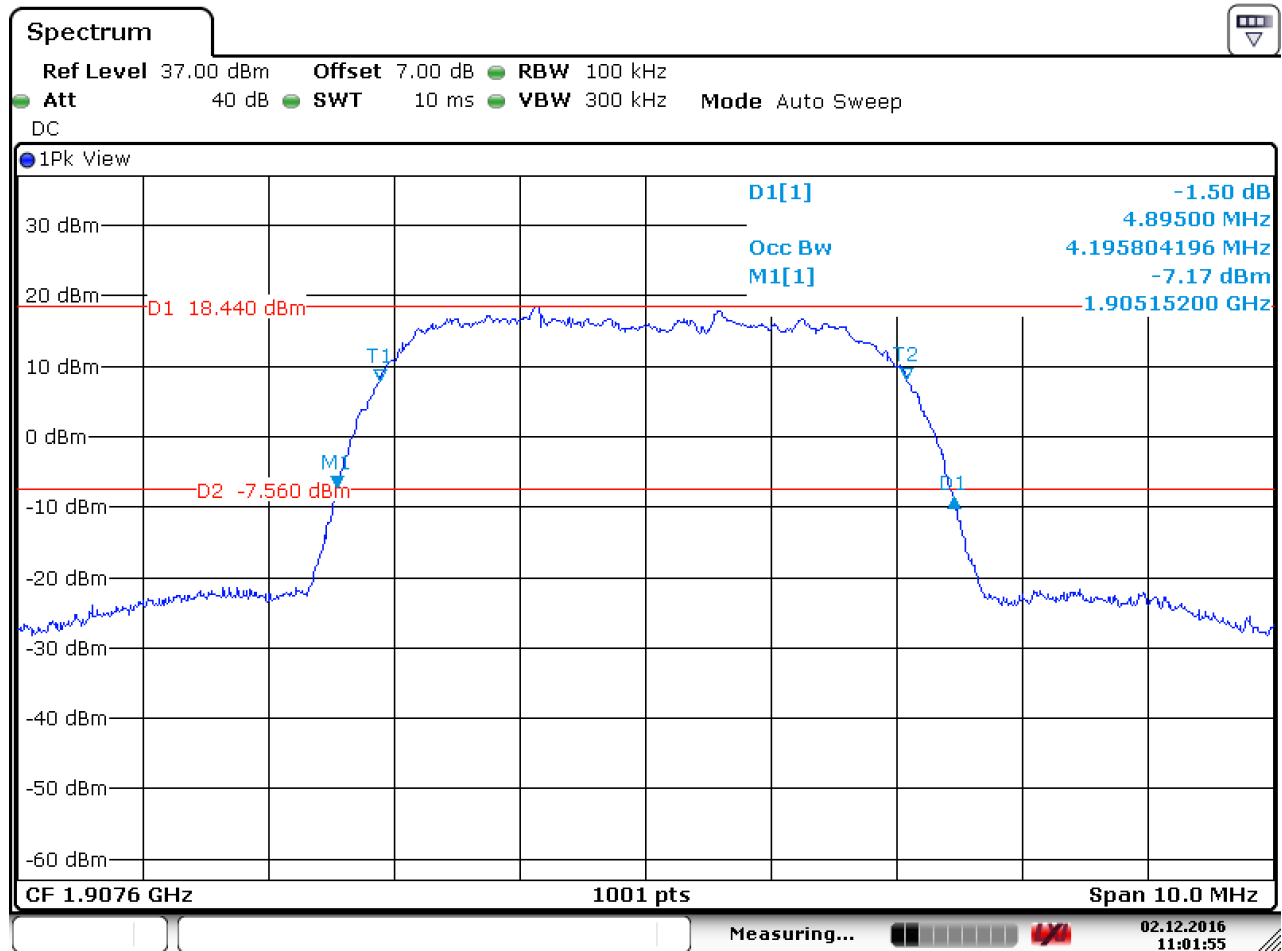


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4.1.1.2.3 Test Channel = HCH



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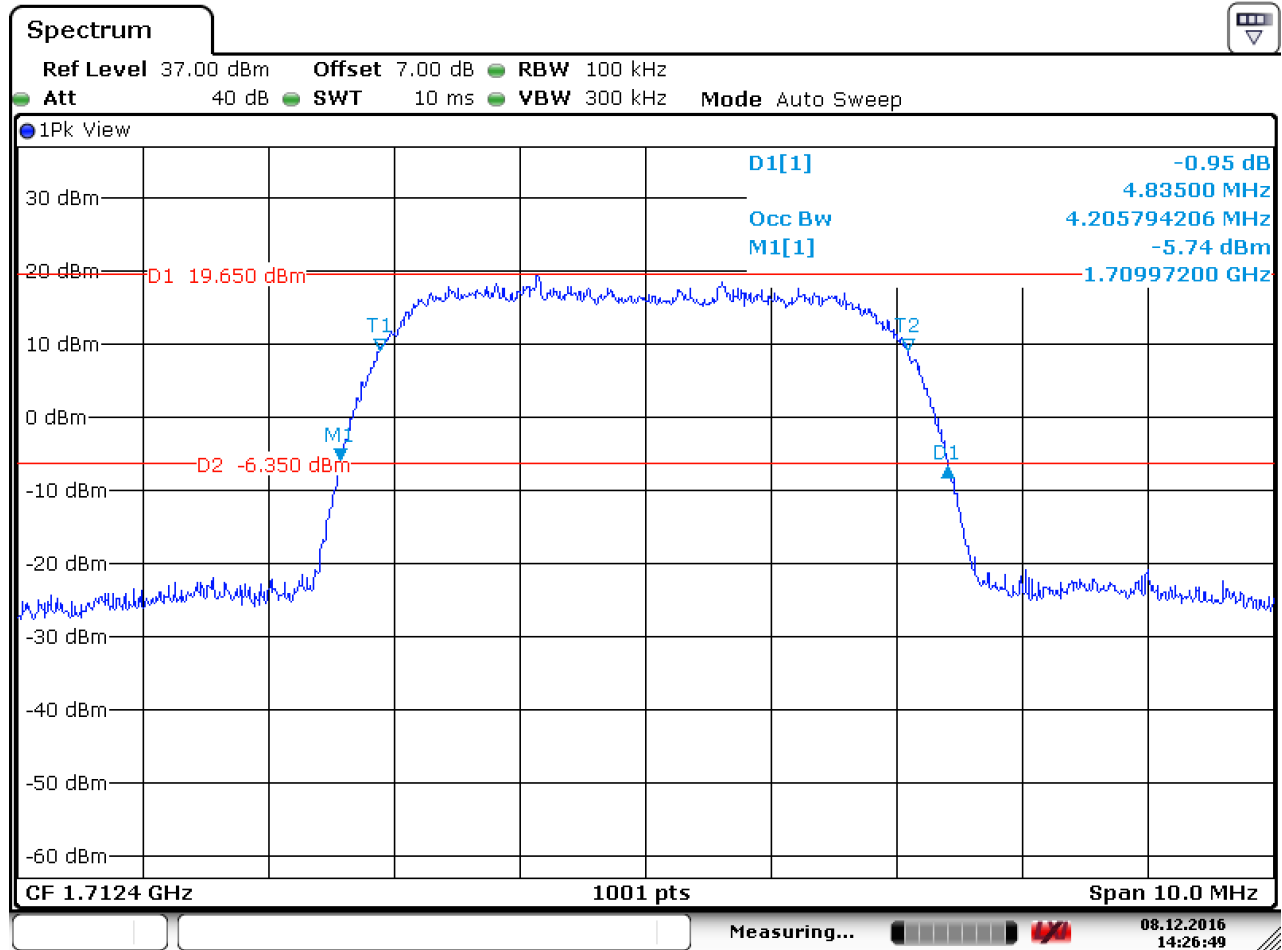
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4.1.2 Test Band = WCDMA 1700

4.1.2.1 Test Mode = UMTS/TM1

4.1.2.1.1 Test Channel = LCH

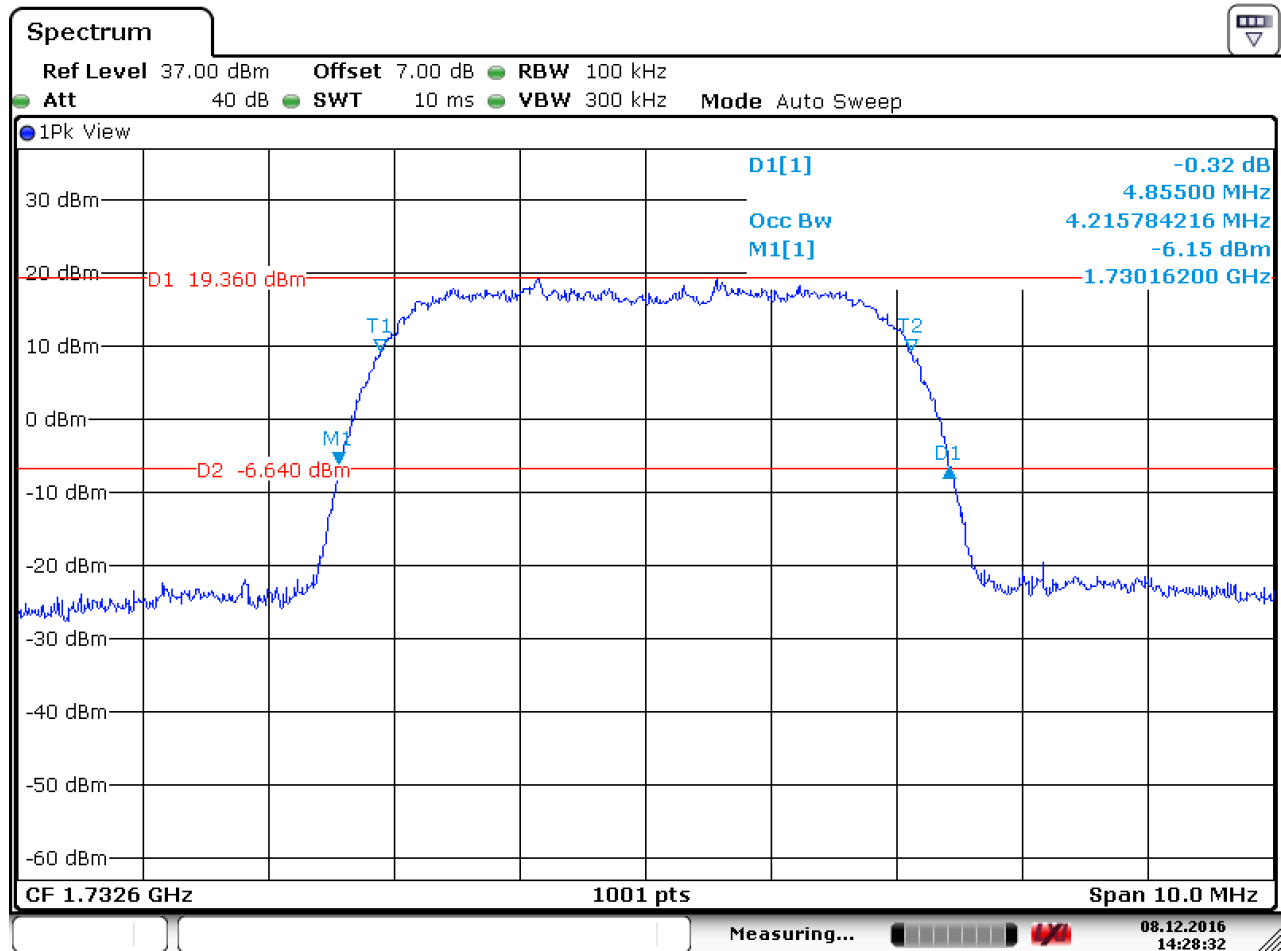


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4.1.2.1.2 Test Channel = MCH

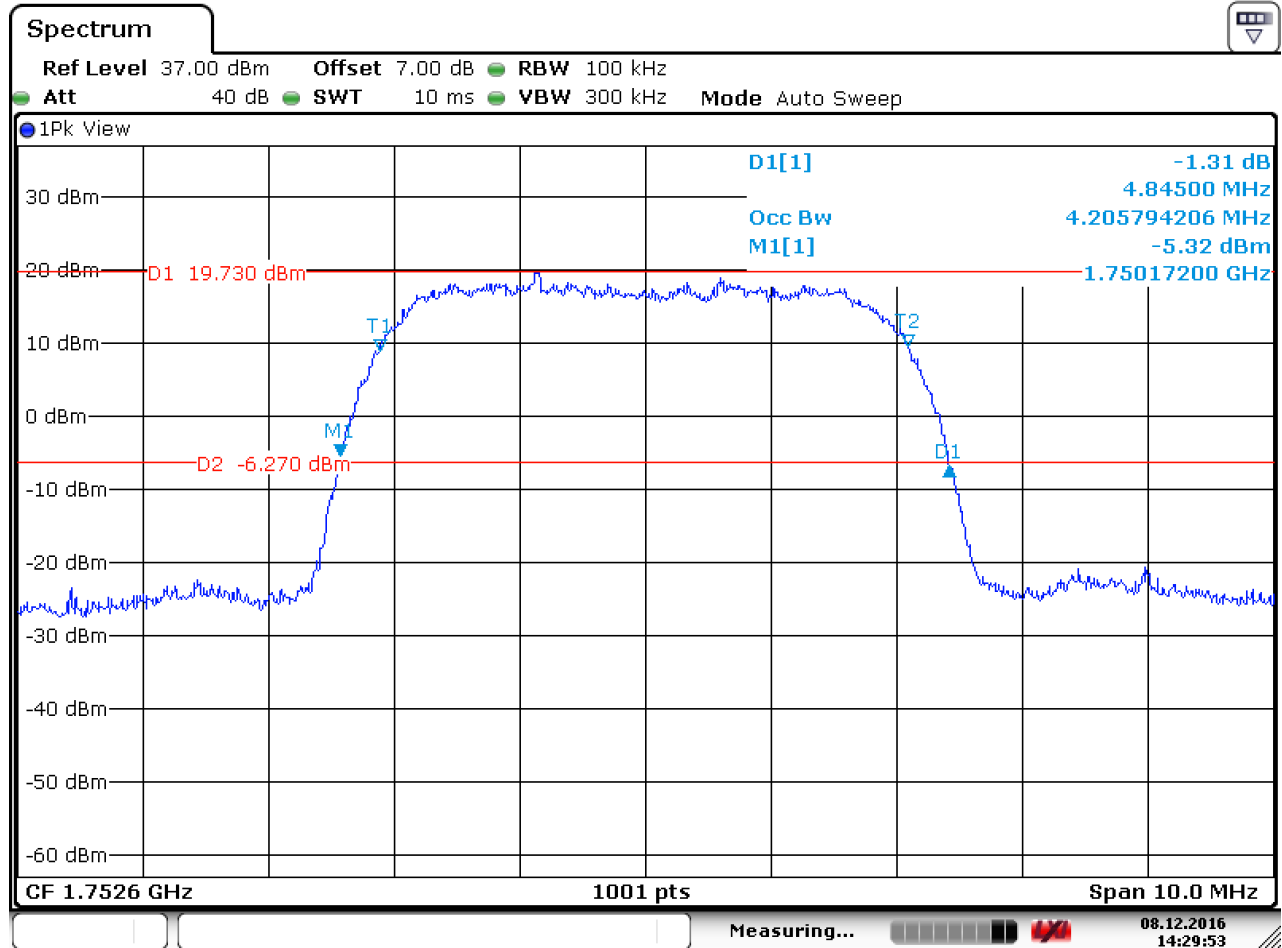


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4.1.2.1.3 Test Channel = HCH



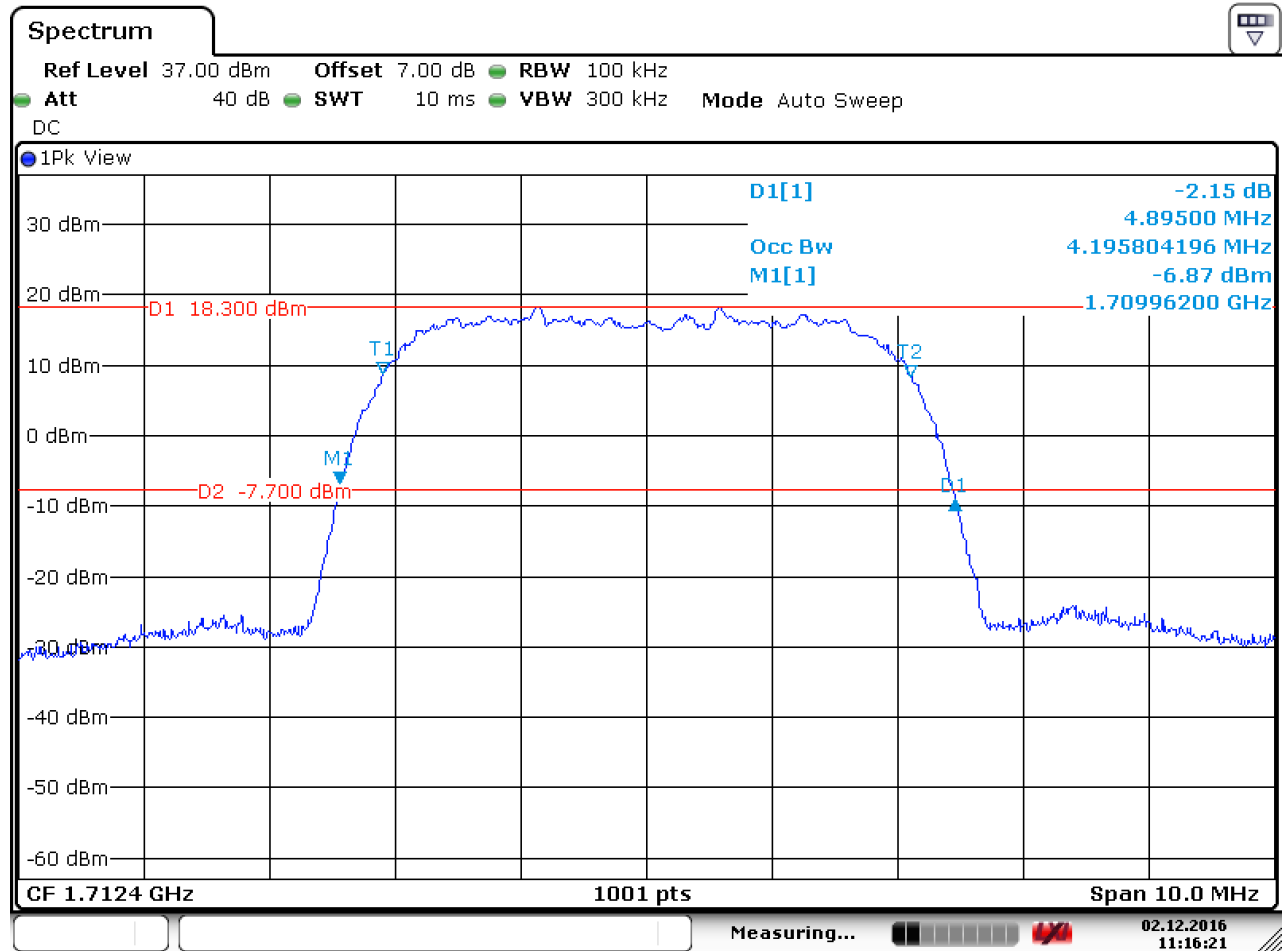
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4.1.2.2 Test Mode = UMTS/TM2

4.1.2.2.1 Test Channel = LCH



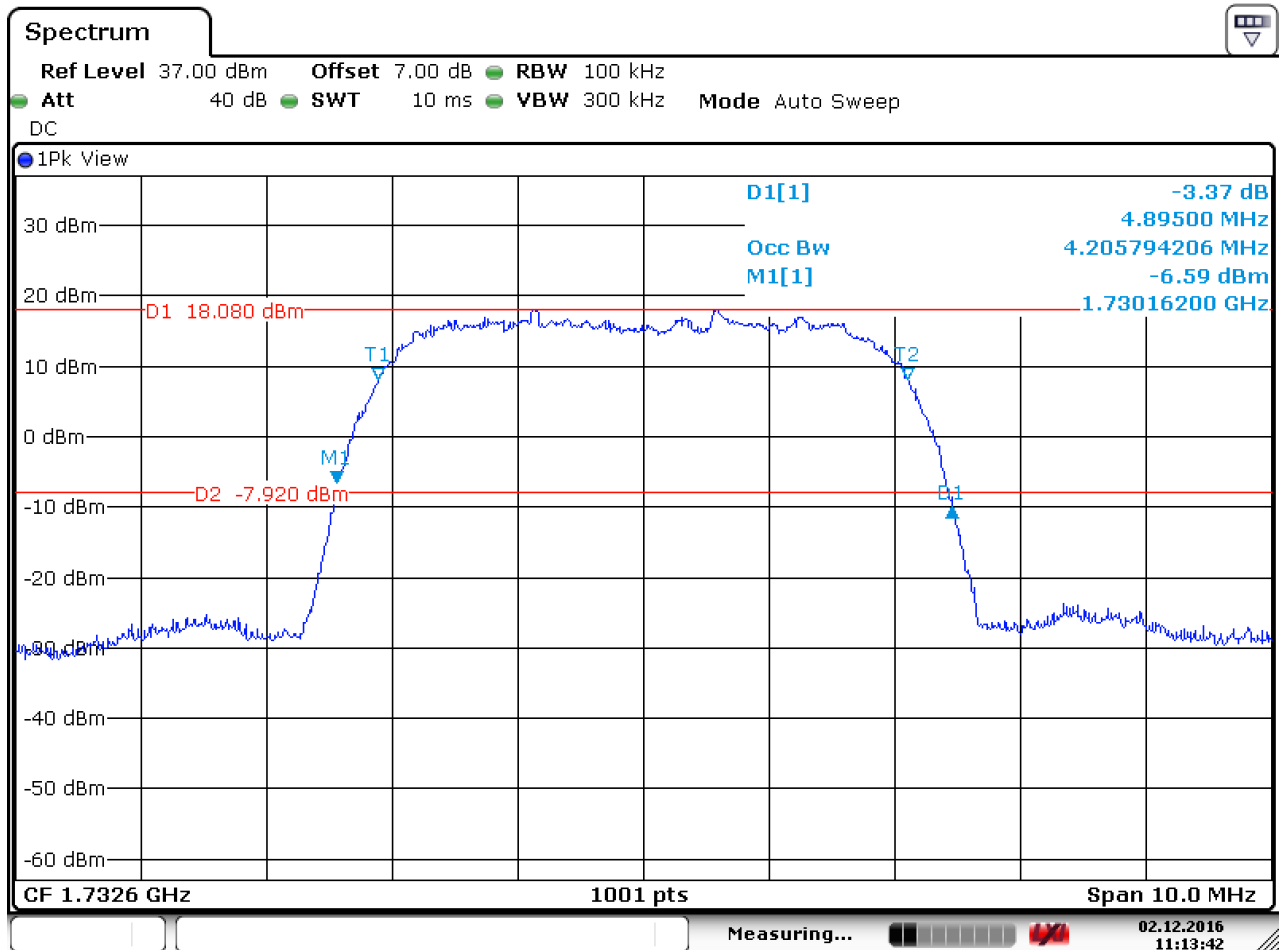
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4.1.2.2.2 Test Channel = MCH

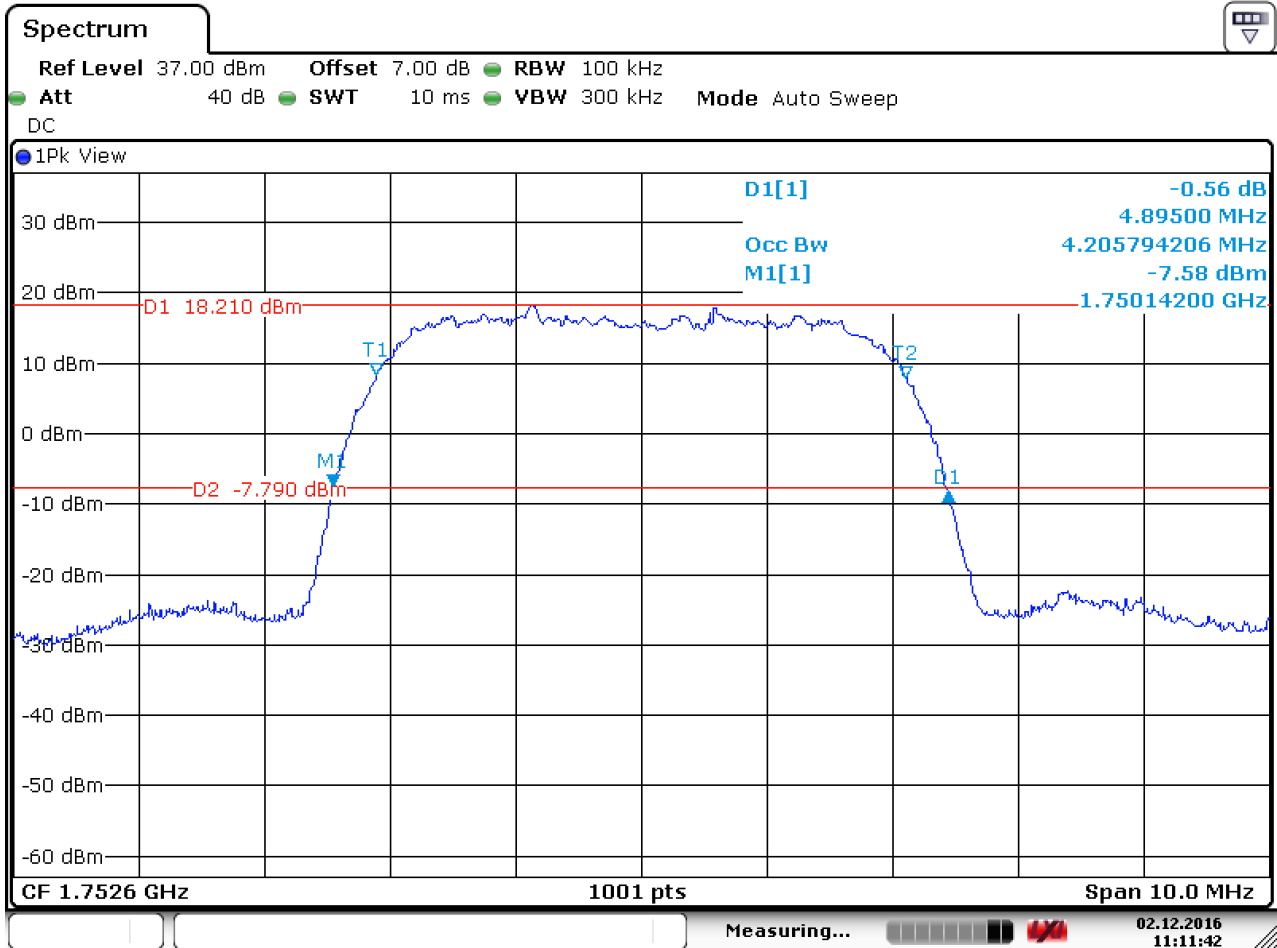


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4.1.2.2.3 Test Channel = HCH



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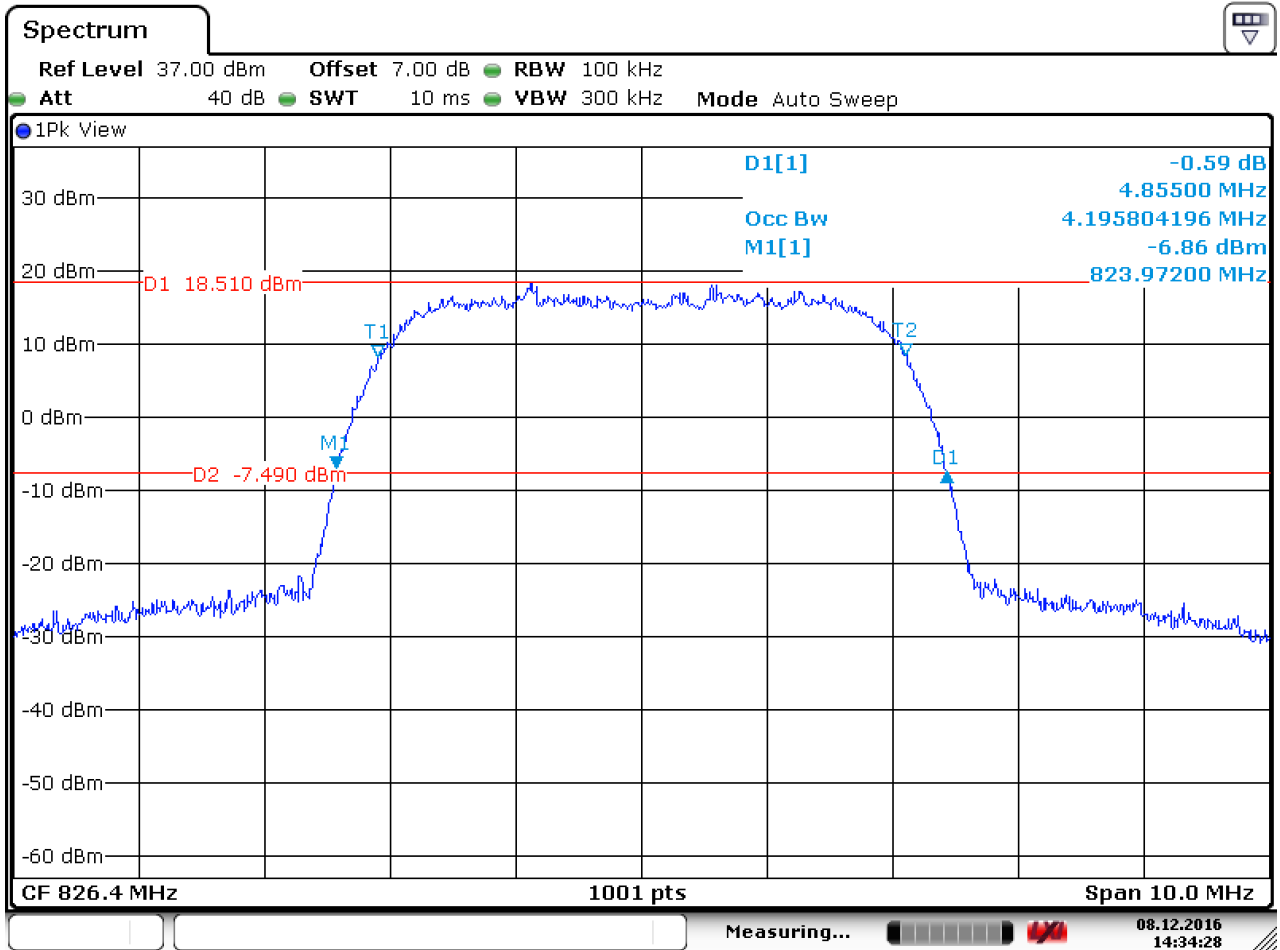
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4.1.3 Test Band = WCDMA 850

4.1.3.1 Test Mode = UMTS/TM1

4.1.3.1.1 Test Channel = LCH

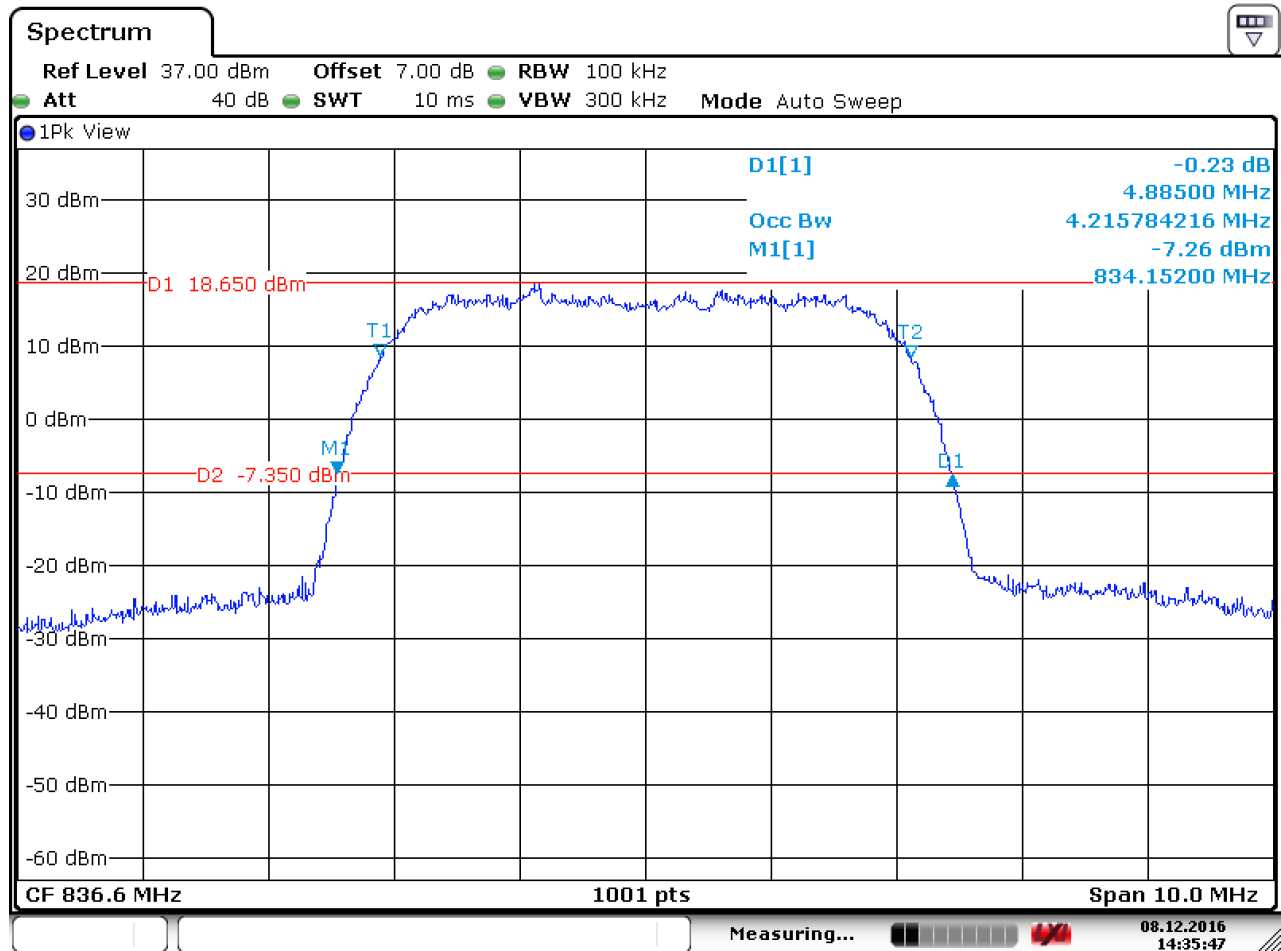


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4.1.3.1.2 Test Channel = MCH

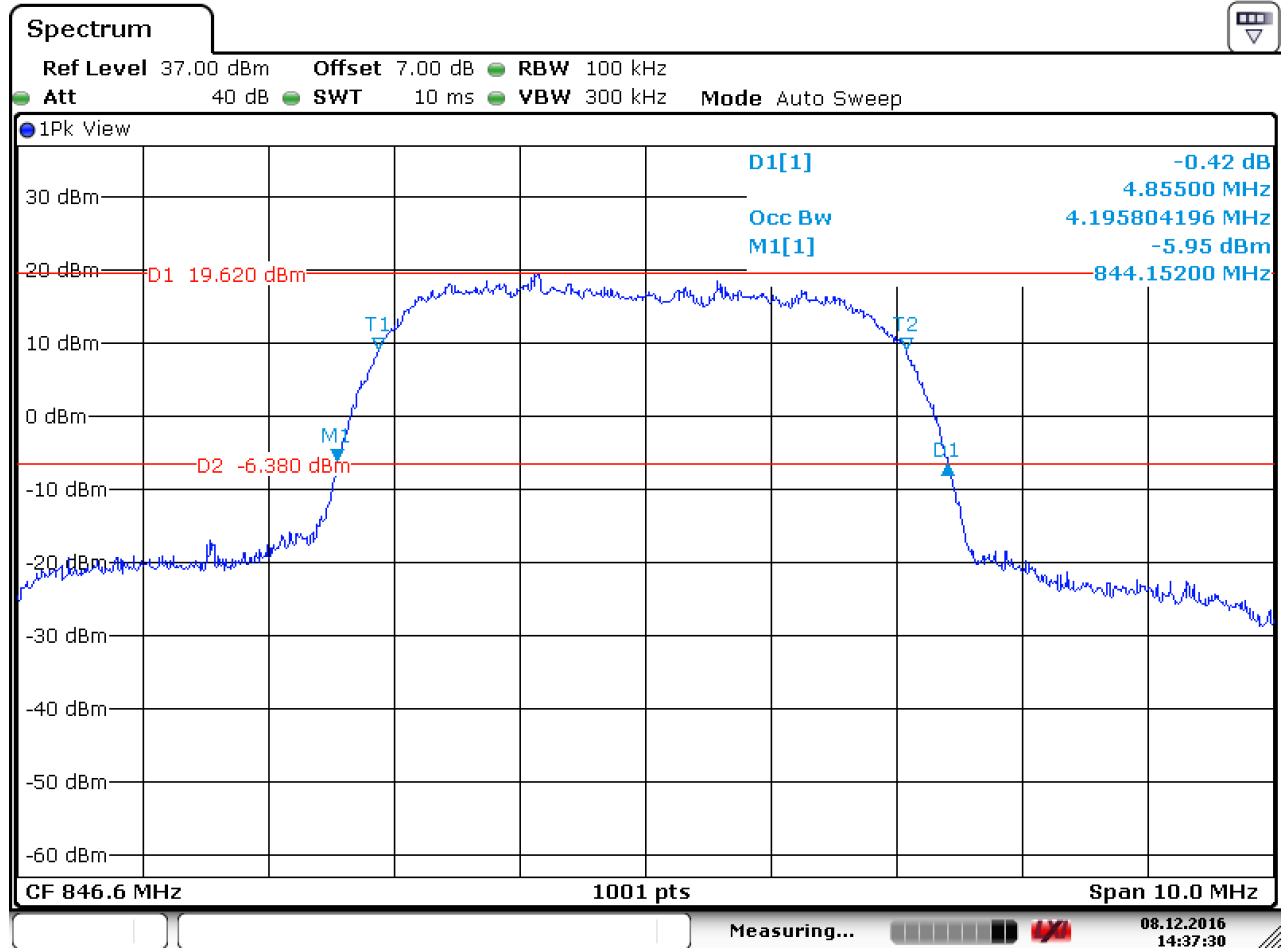


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4.1.3.1.3 Test Channel = HCH



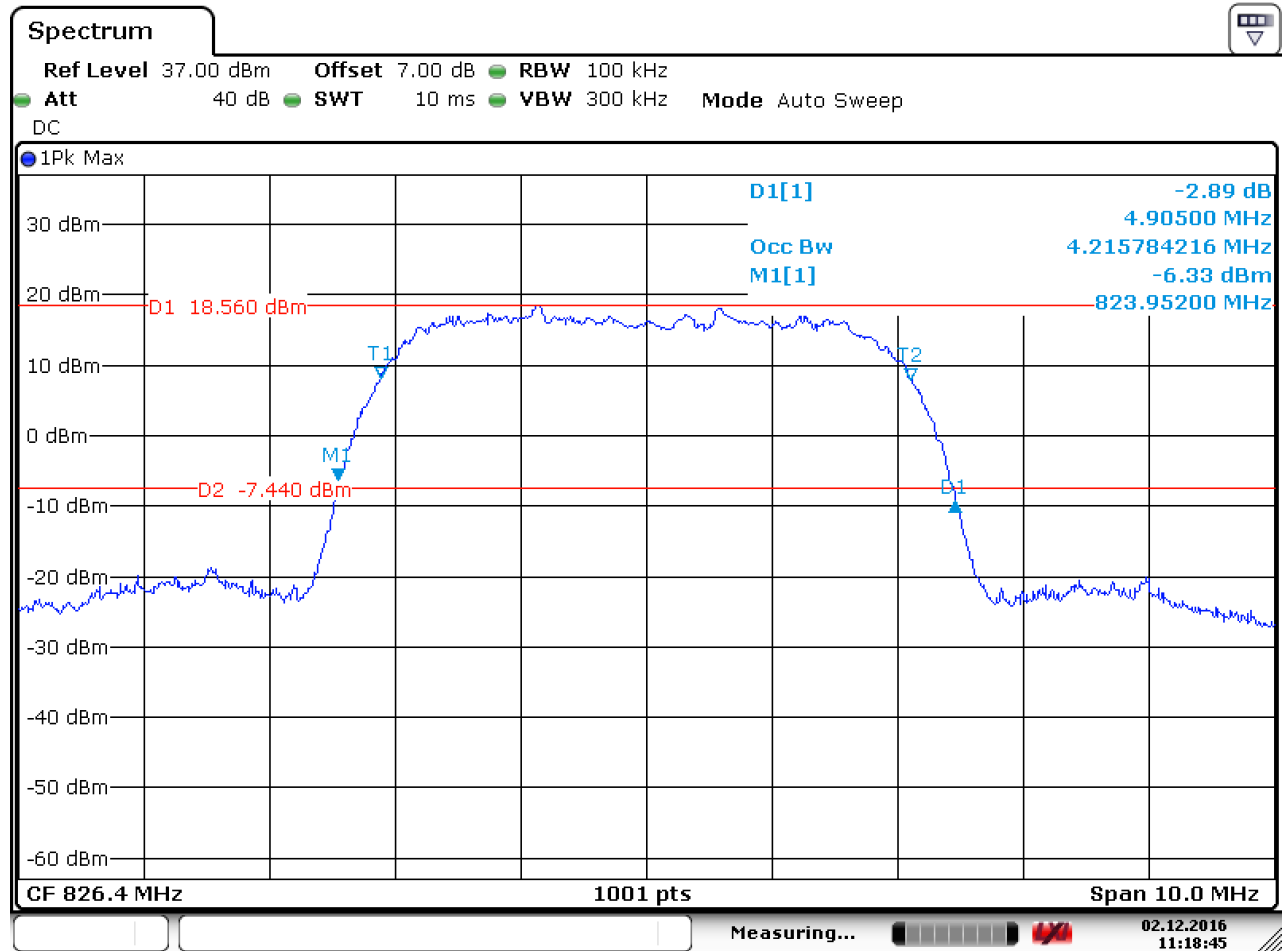
Date: 8.DEC.2016 14:37:30

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4.1.3.2 Test Mode = UMTS/TM2

4.1.3.2.1 Test Channel = LCH

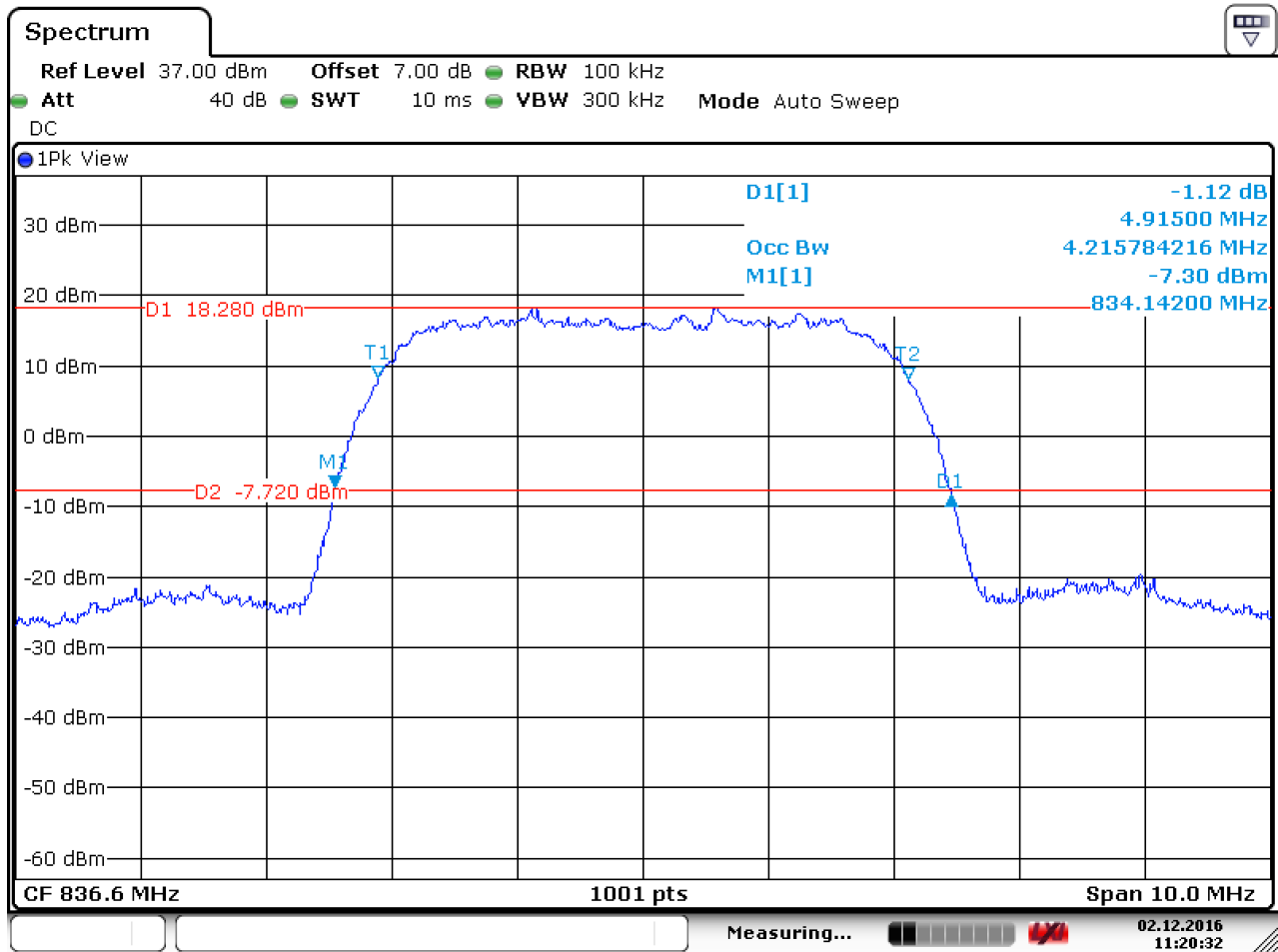


Date: 2.DEC.2016 11:18:46

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4.1.3.2.2 Test Channel = MCH

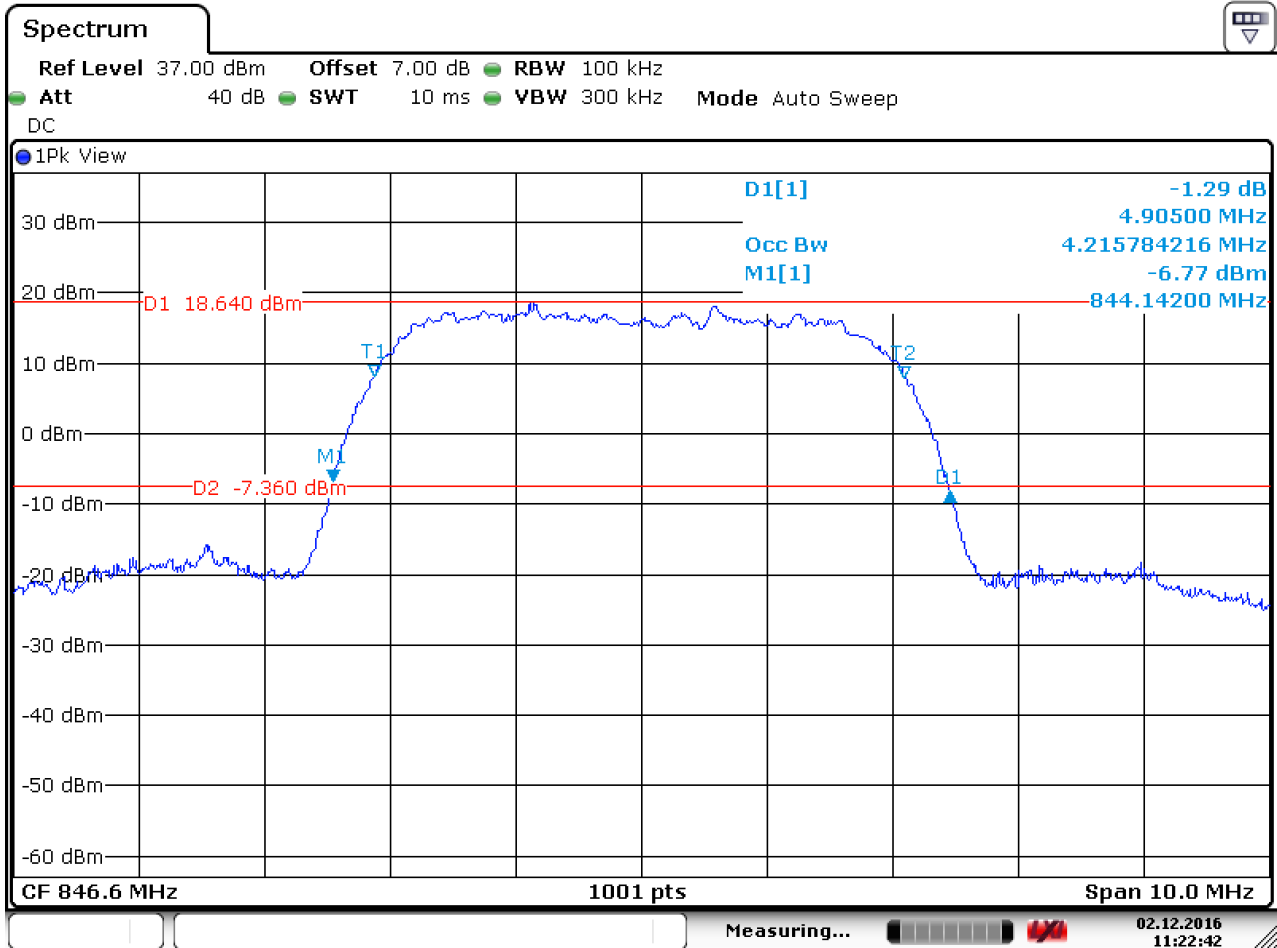


Date: 2.DEC.2016 11:20:33

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4.1.3.2.3 Test Channel = HCH



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## 5 Band Edges Compliance

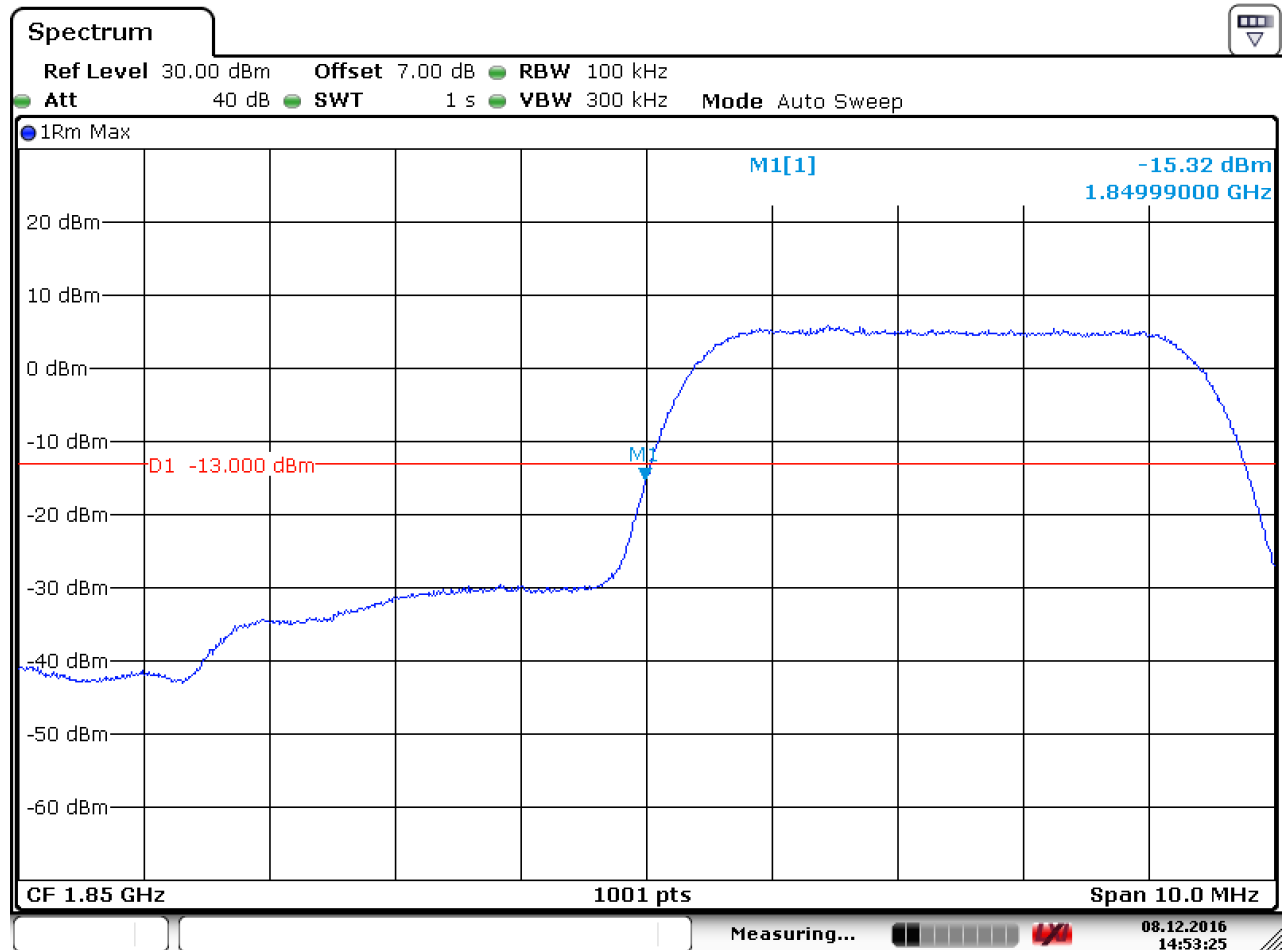
Part I - Test Plots

### 5.1 For WCDMA

#### 5.1.1 Test Band = WCDMA 1900

##### 5.1.1.1 Test Mode = UMTS/TM1

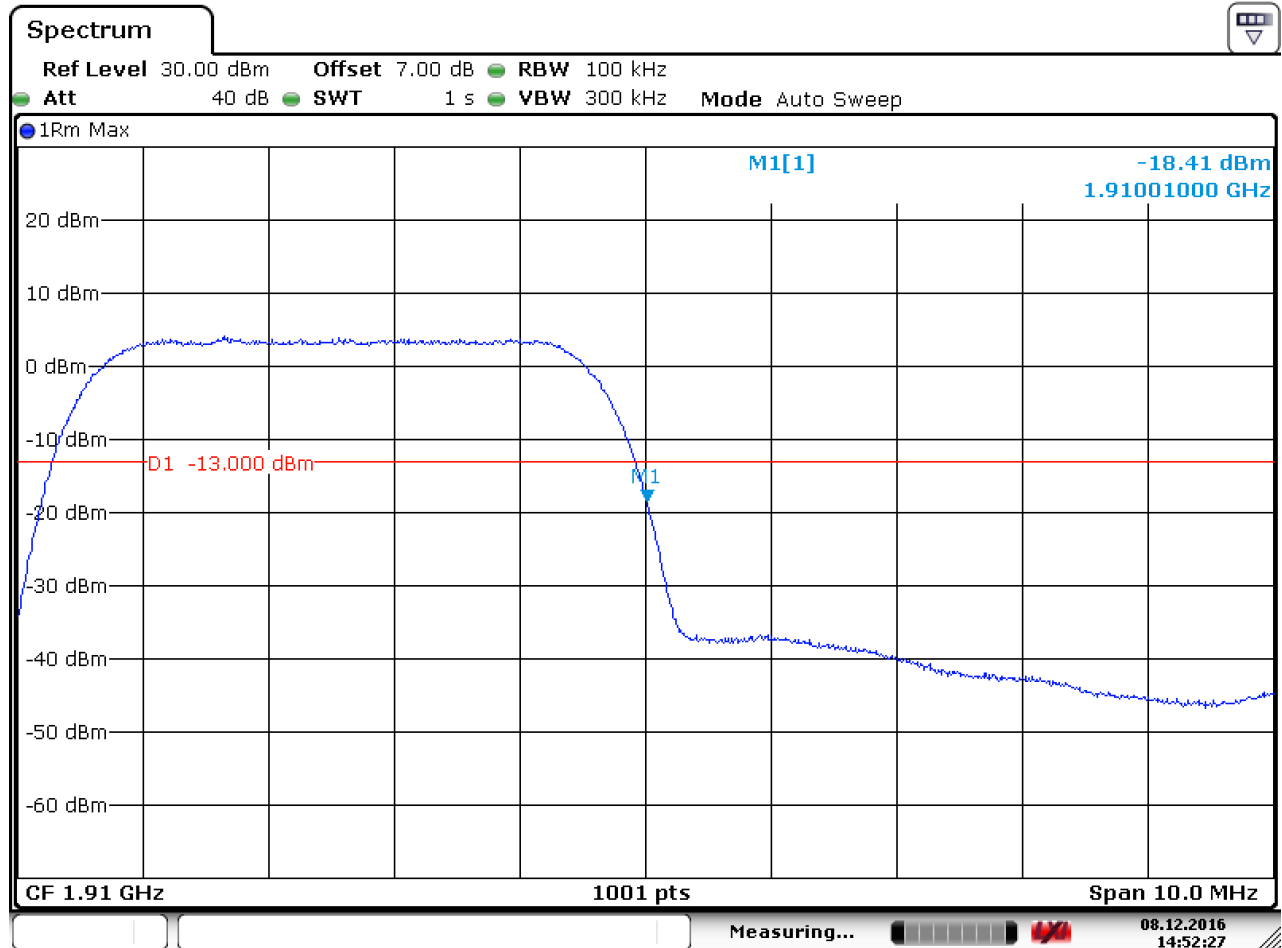
##### 5.1.1.1.1 Test Channel = LCH



Date: 8.DEC.2016 14:53:25



5.1.1.1.2 Test Channel = HCH



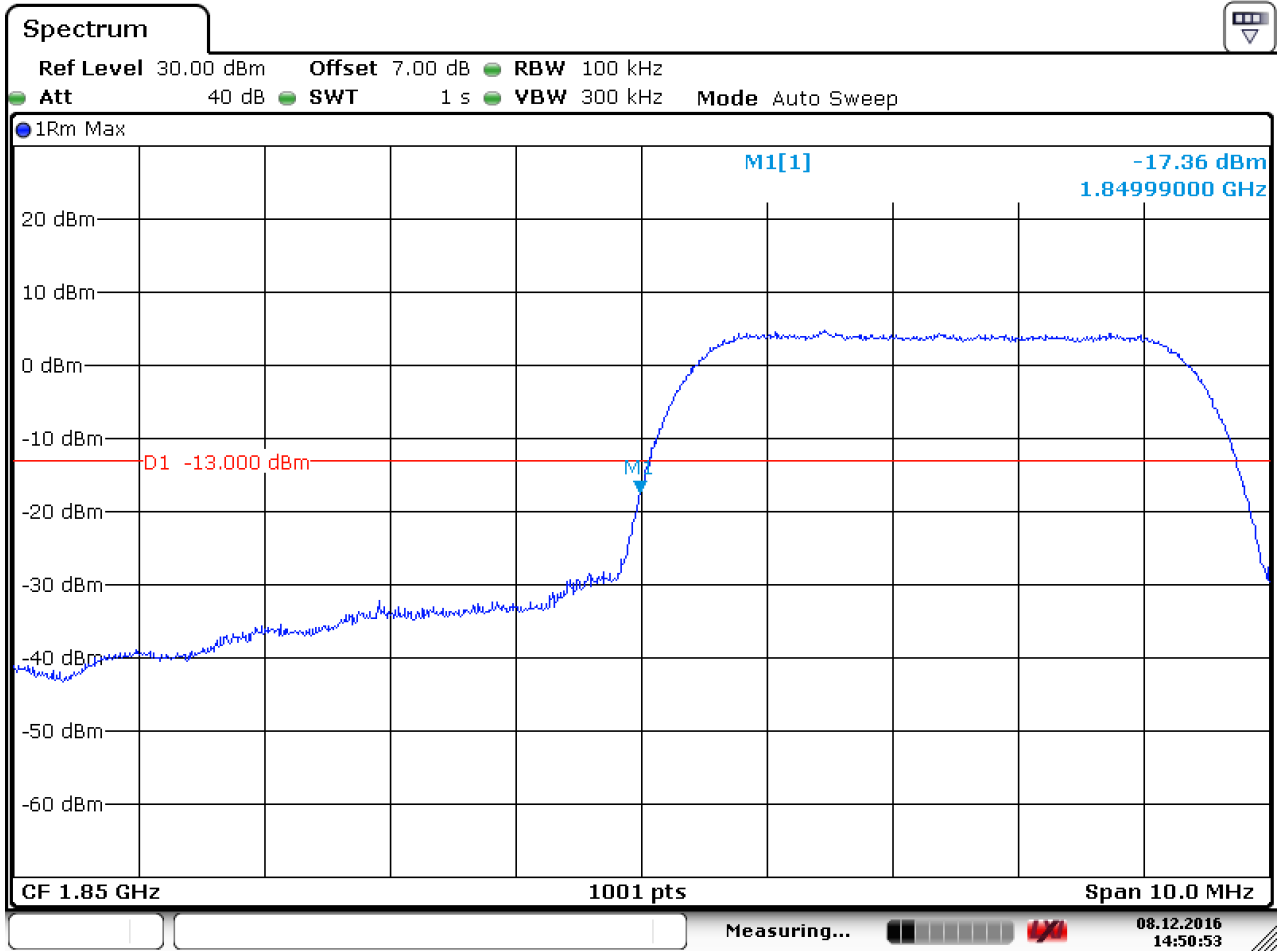
Date: 8.DEC.2016 14:52:27

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5.1.1.2 Test Mode =UMTS/TM2

5.1.1.2.1 Test Channel = LCH

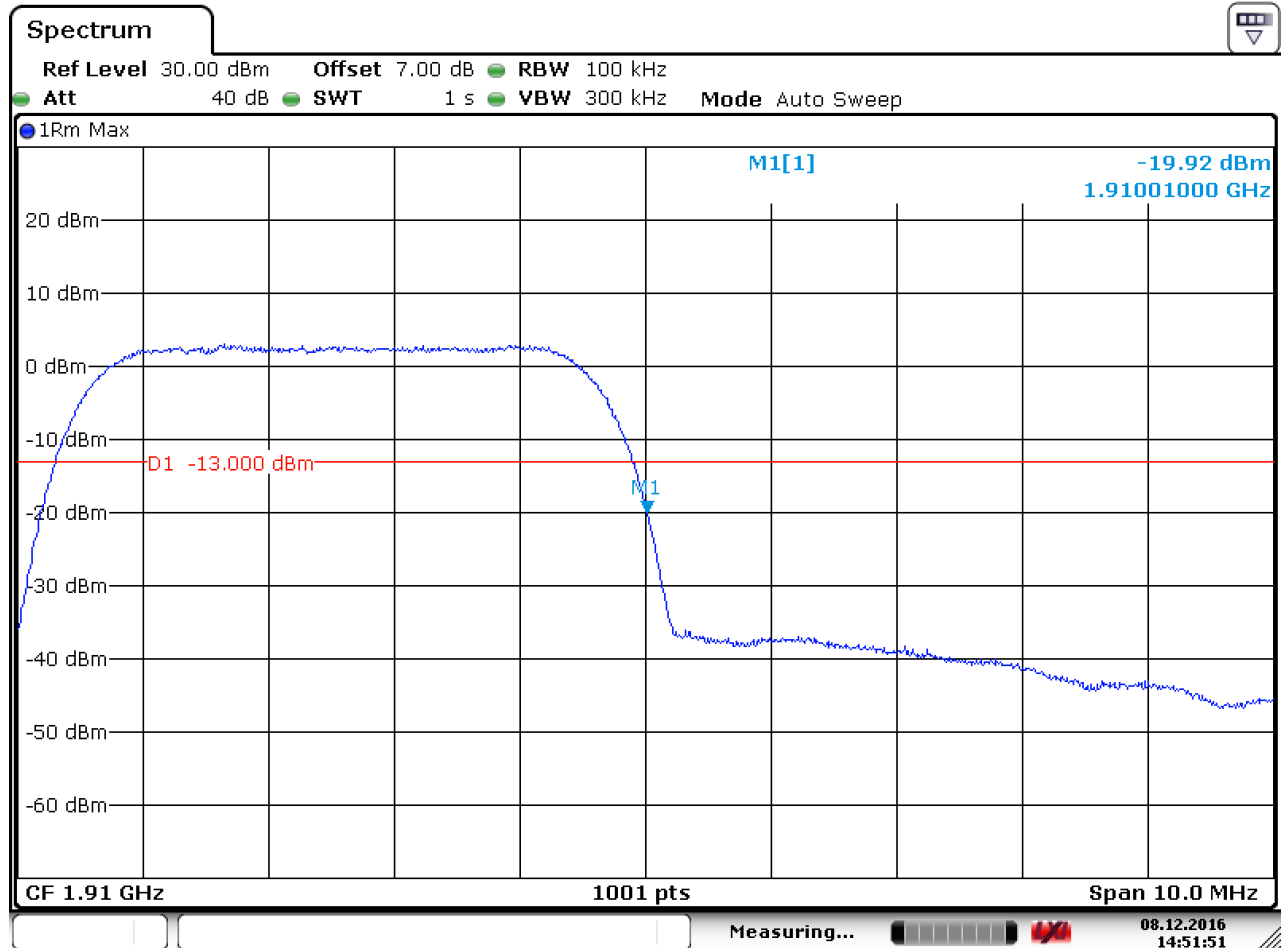


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5.1.1.2.2 Test Channel = HCH



Date: 8.DEC.2016 14:51:52

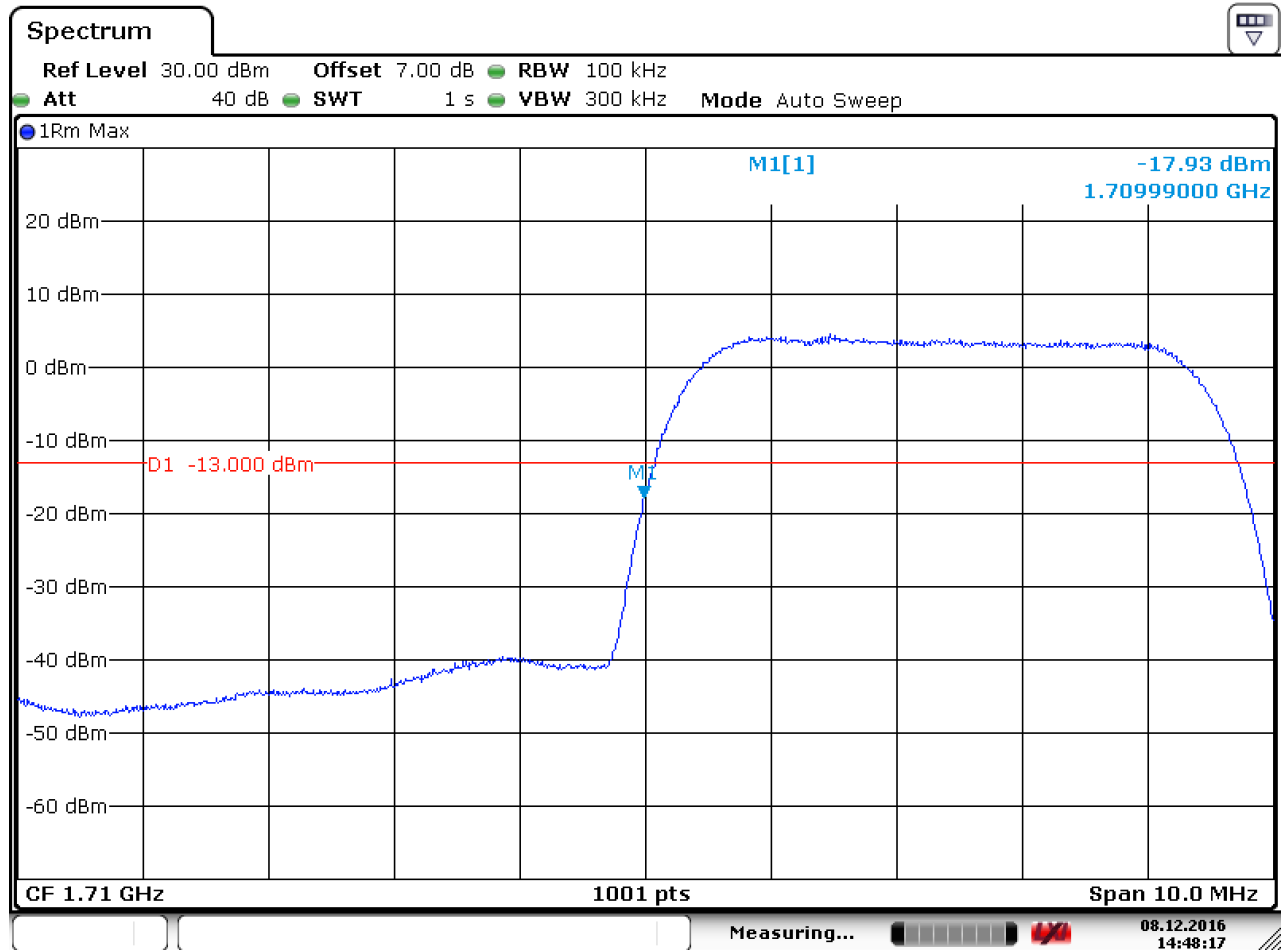
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5.1.2 Test Band = WCDMA 1700

5.1.2.1 Test Mode = UMTS/TM1

5.1.2.1.1 Test Channel = LCH

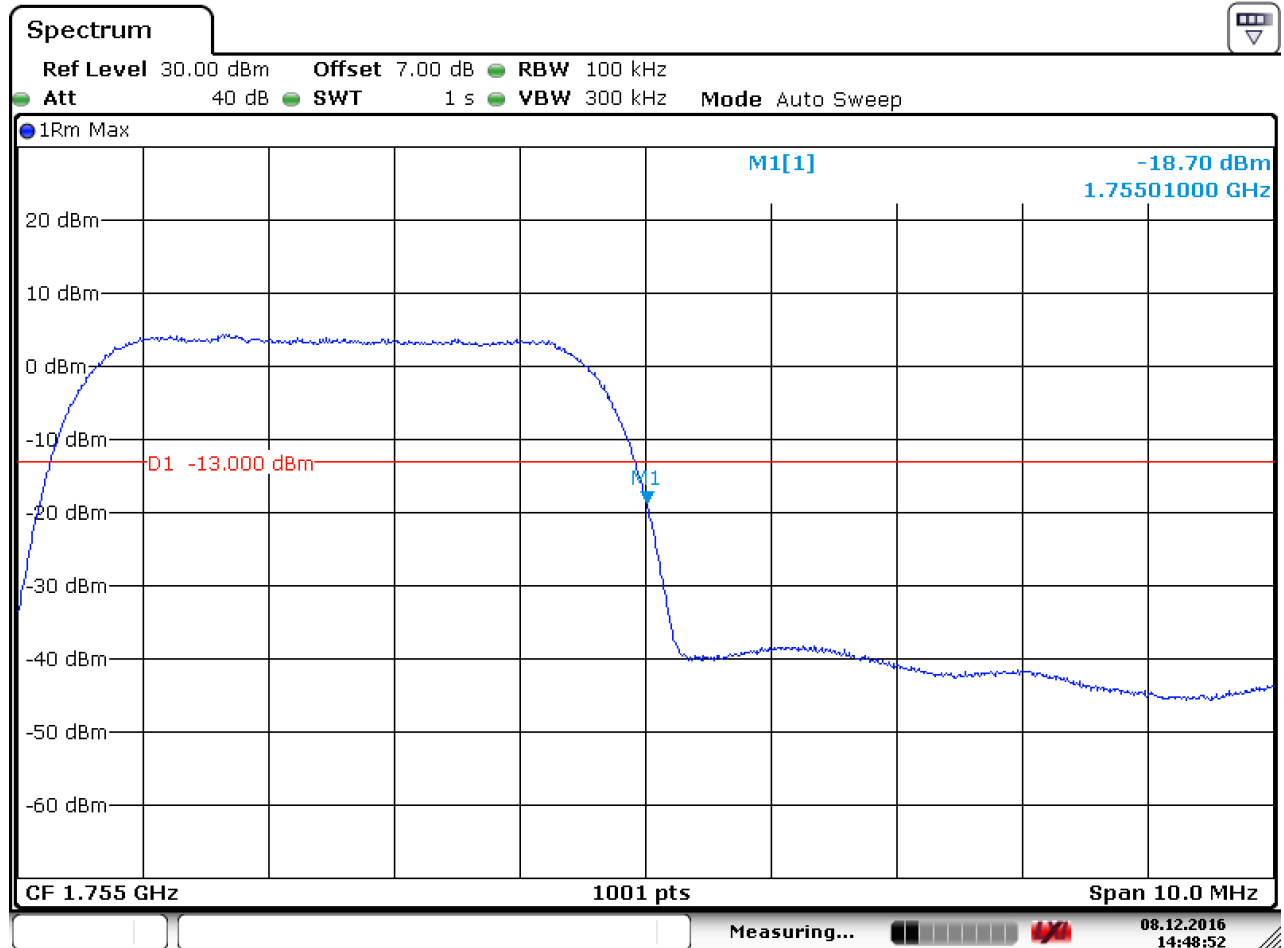


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5.1.2.1.2 Test Channel = HCH



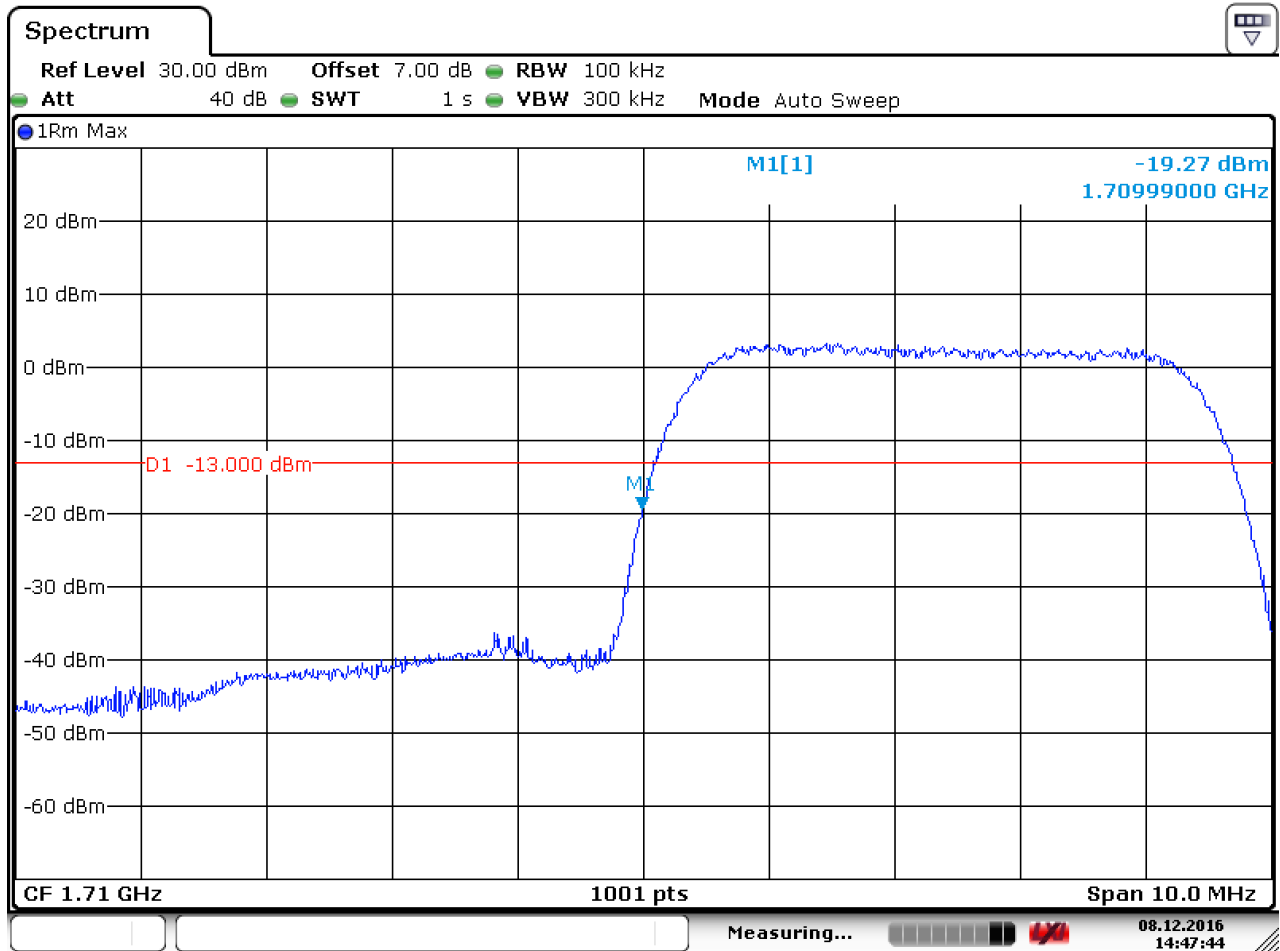
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5.1.2.2 Test Mode = UMTS/TM2

5.1.2.2.1 Test Channel = LCH

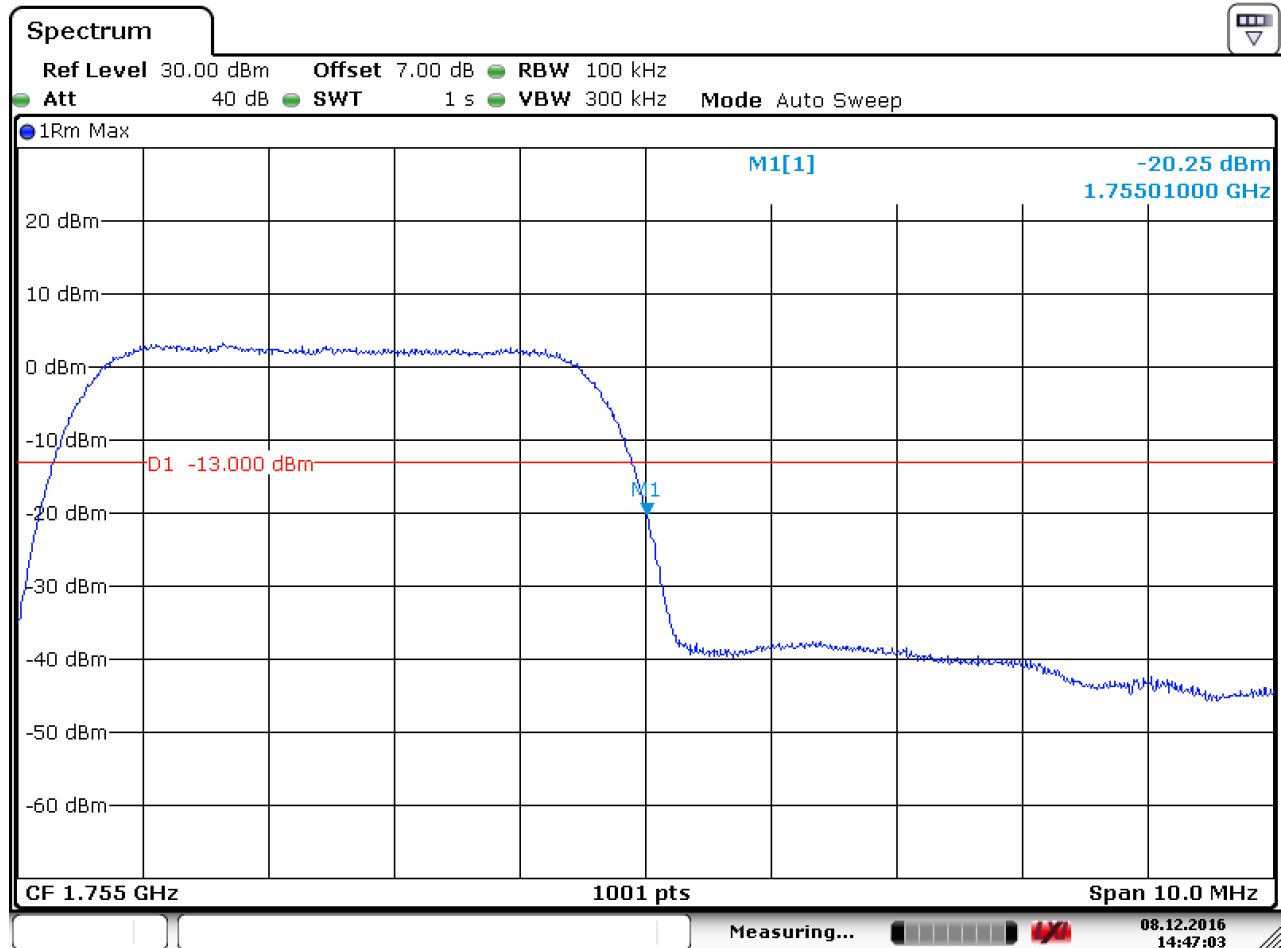


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5.1.2.2.2 Test Channel = HCH



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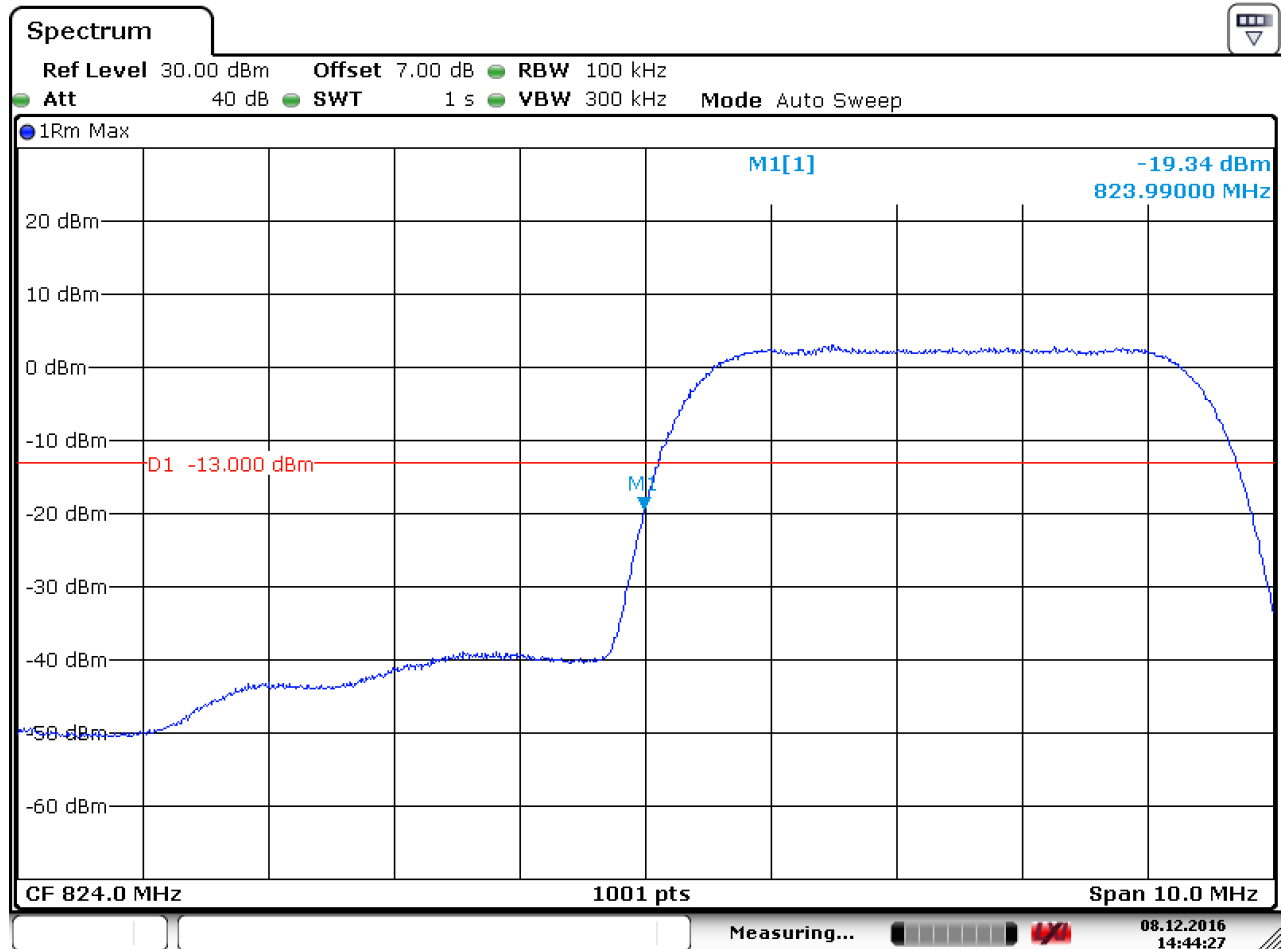




### 5.1.3 Test Band = WCDMA 850

#### 5.1.3.1 Test Mode = UMTS/TM1

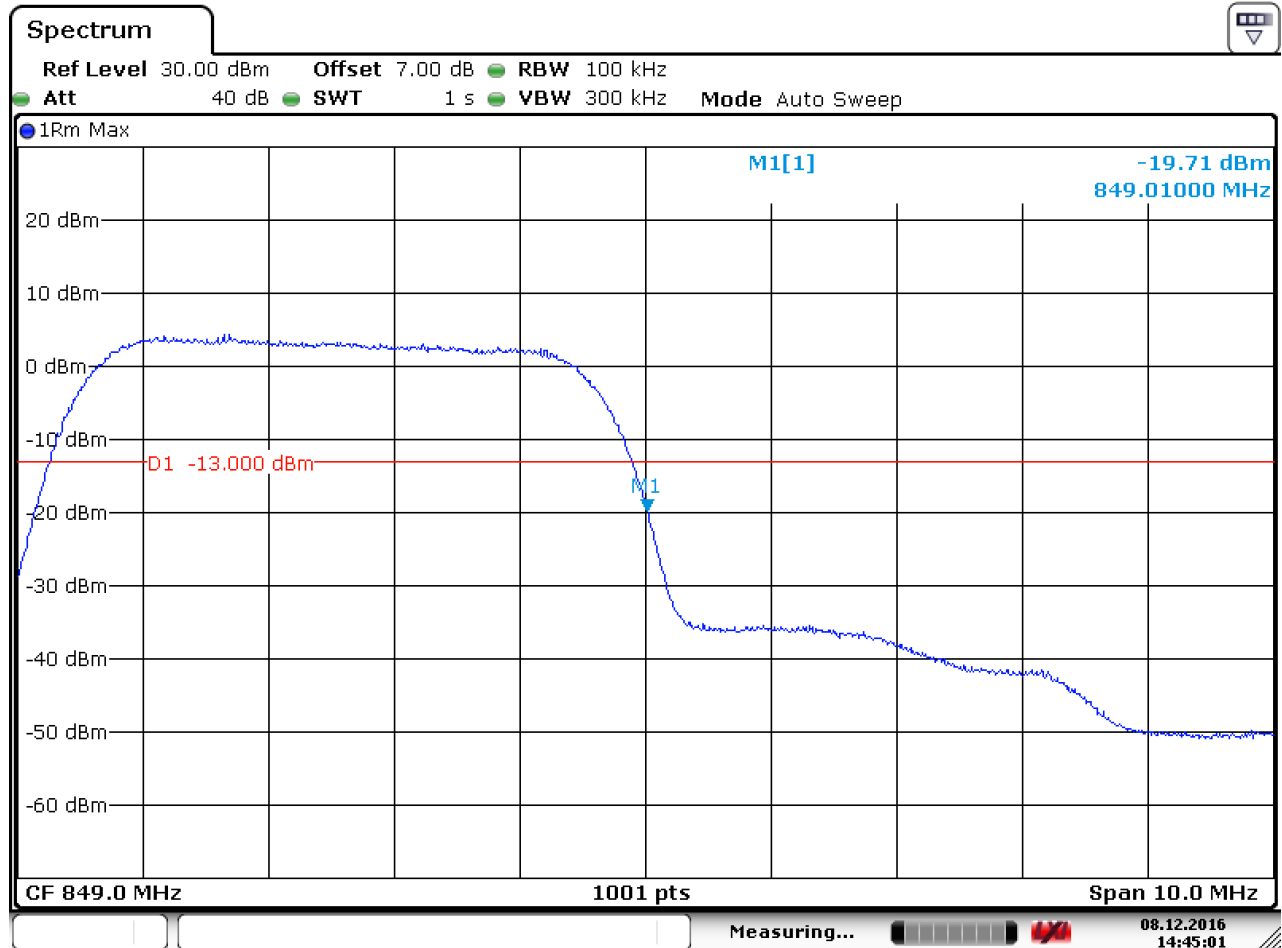
##### 5.1.3.1.1 Test Channel = LCH



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5.1.3.1.2 Test Channel = HCH

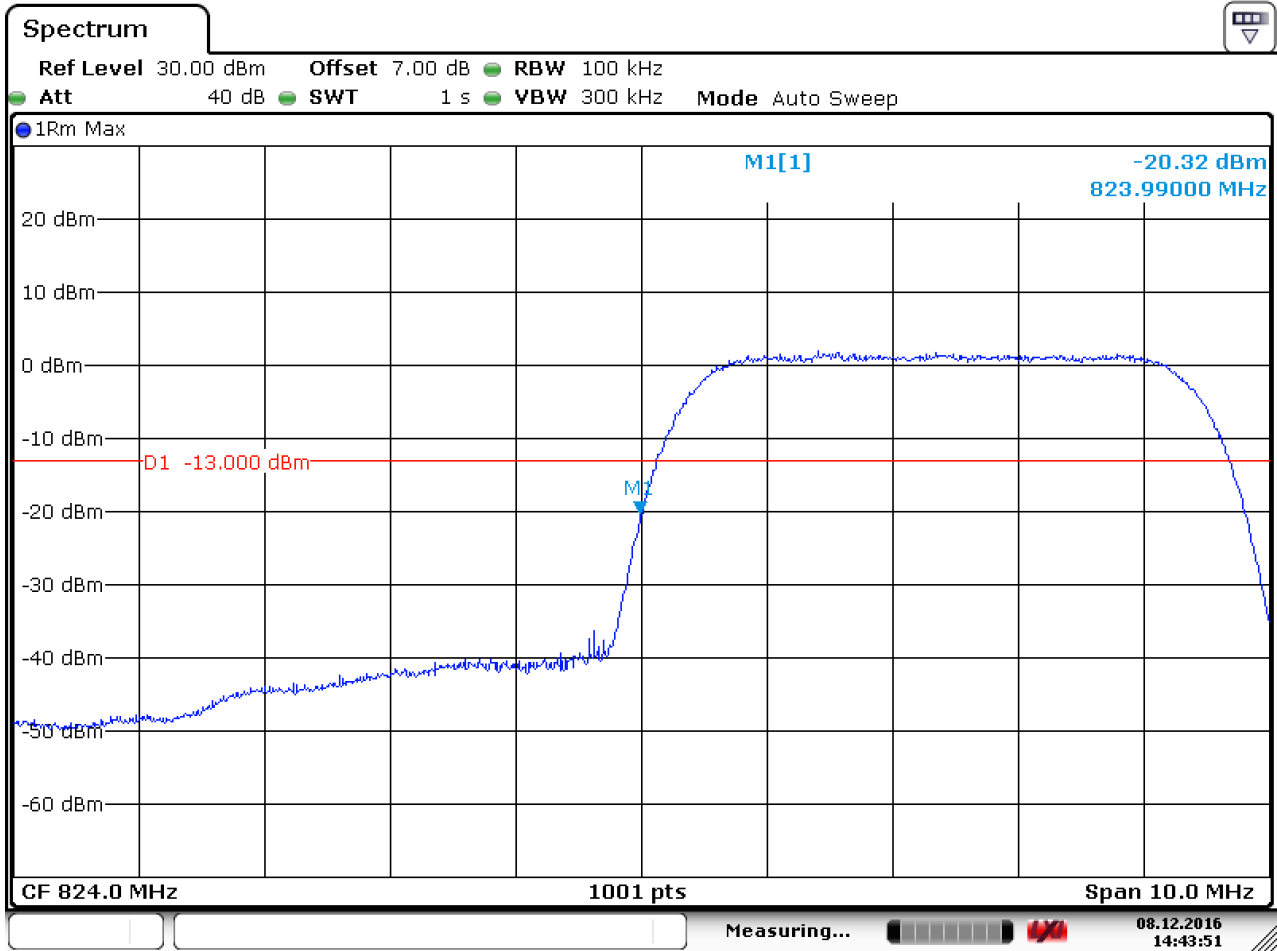


Date: 8.DEC.2016 14:45:01



5.1.3.2 Test Mode = UMTS/TM2

5.1.3.2.1 Test Channel = LCH

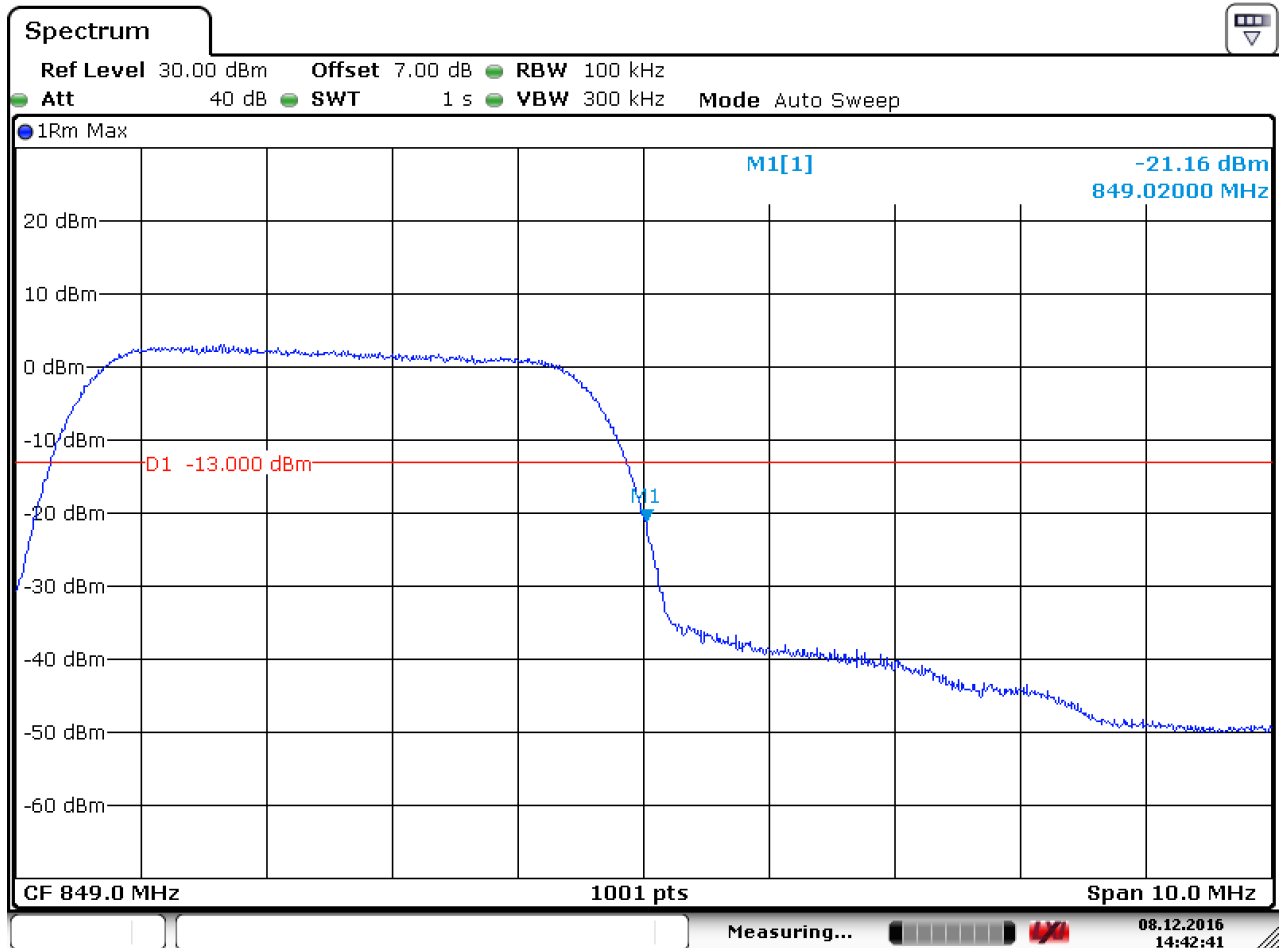


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5.1.3.2.2 Test Channel = HCH



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## 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.

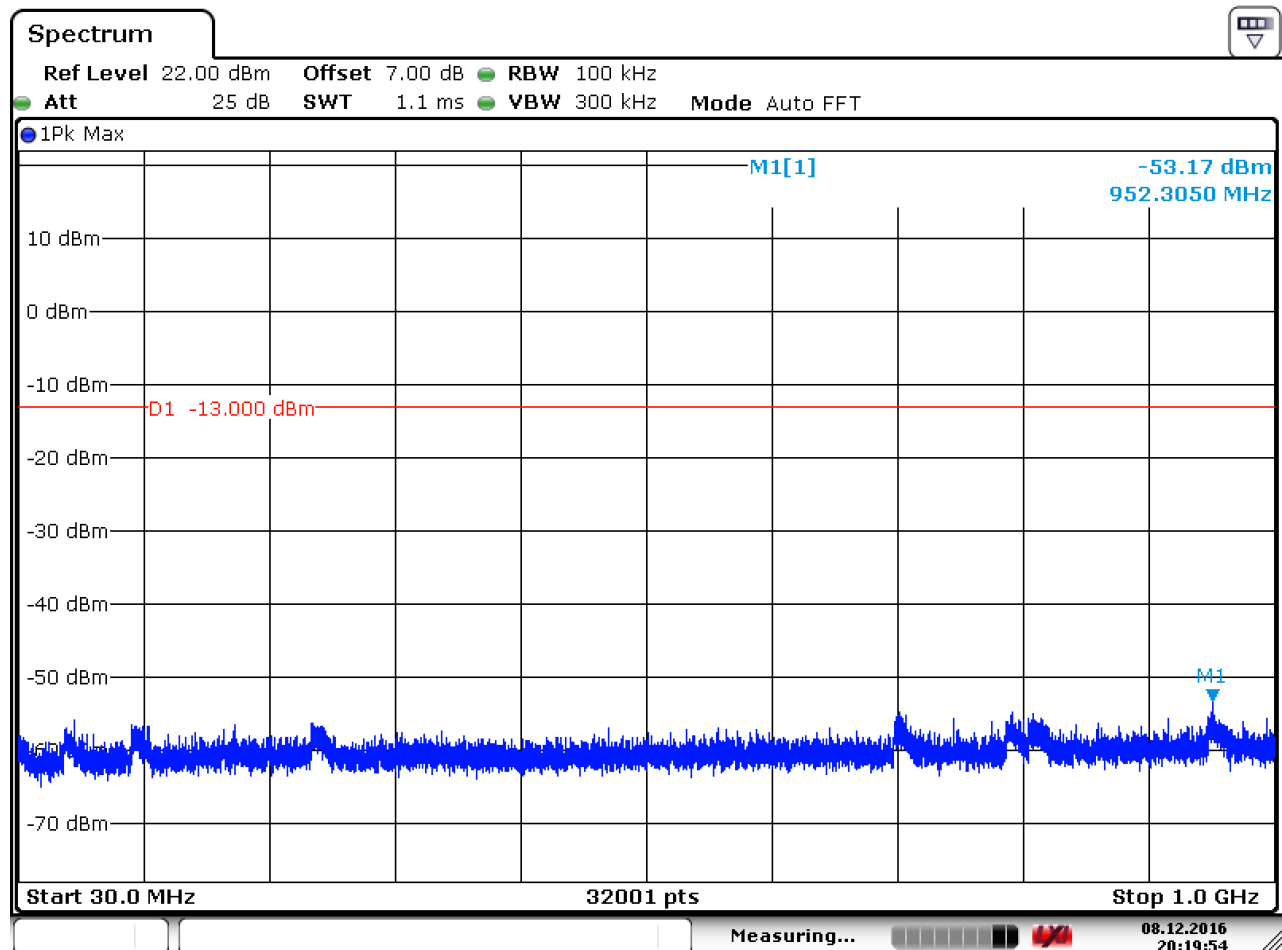
Part I - Test Plots

### 6.1 For WCDMA

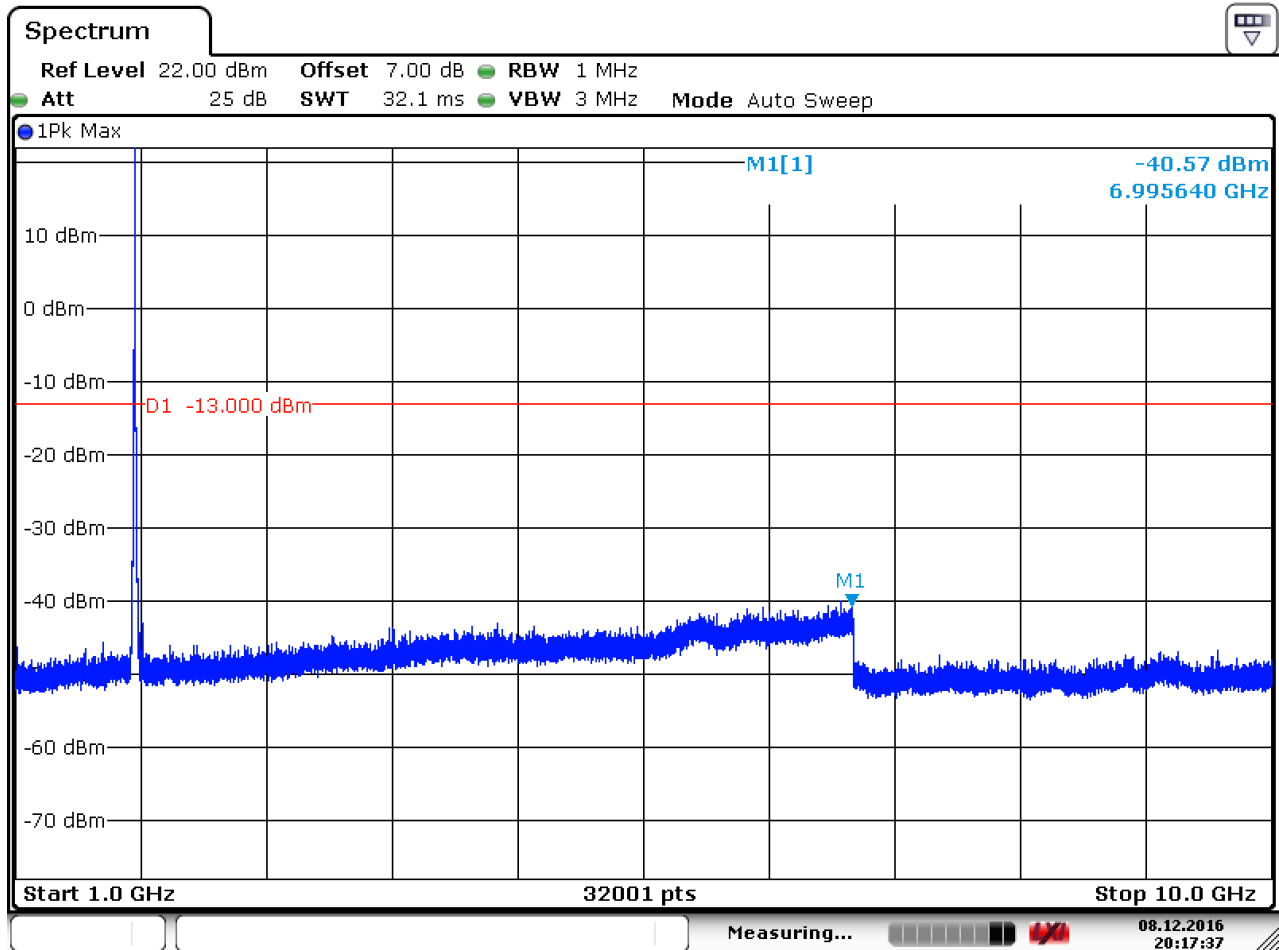
#### 6.1.1 Test Band = WCDMA 1900

##### 6.1.1.1 Test Mode = UMTS/TM1

##### 6.1.1.1.1 Test Channel = LCH

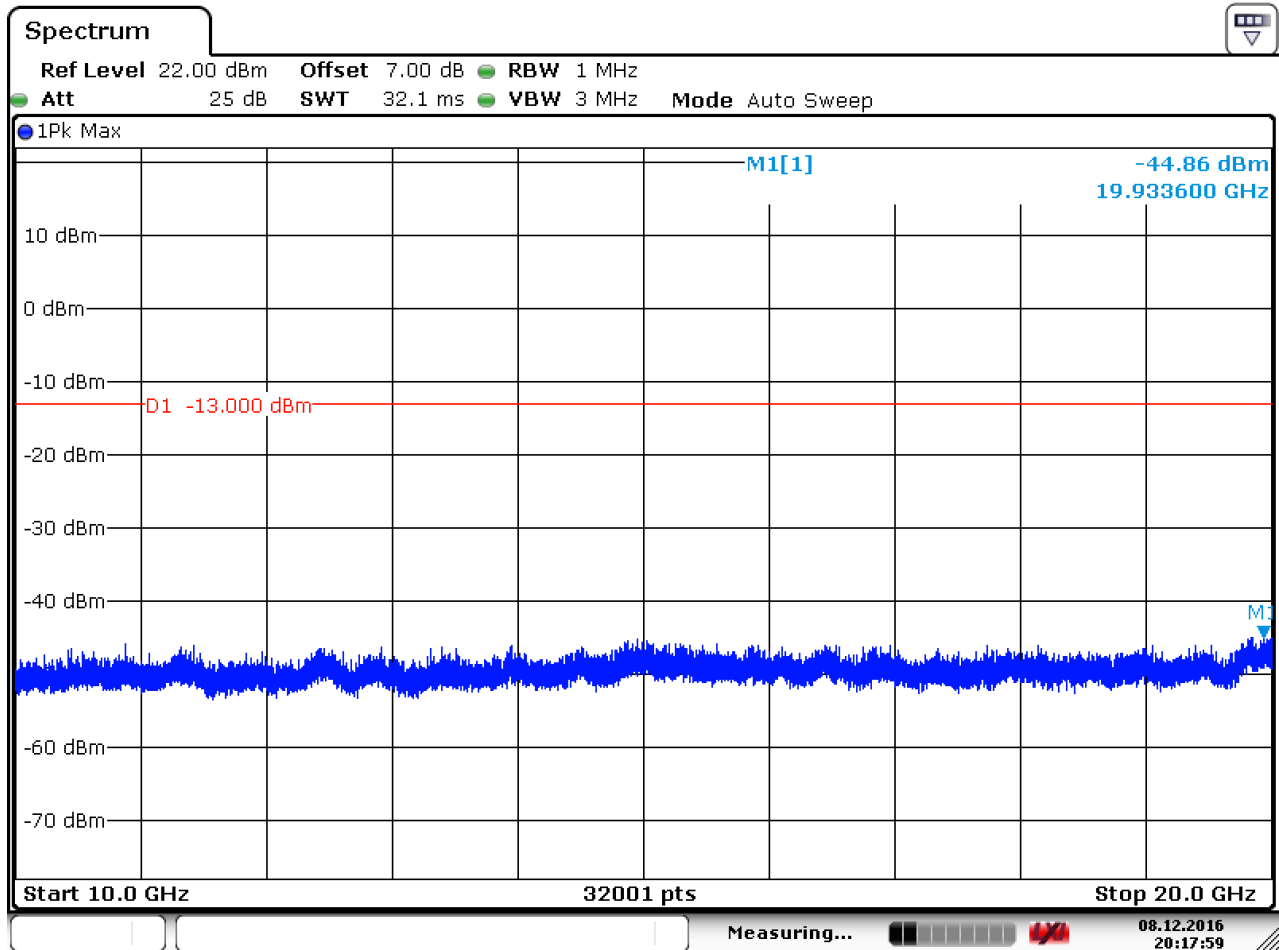


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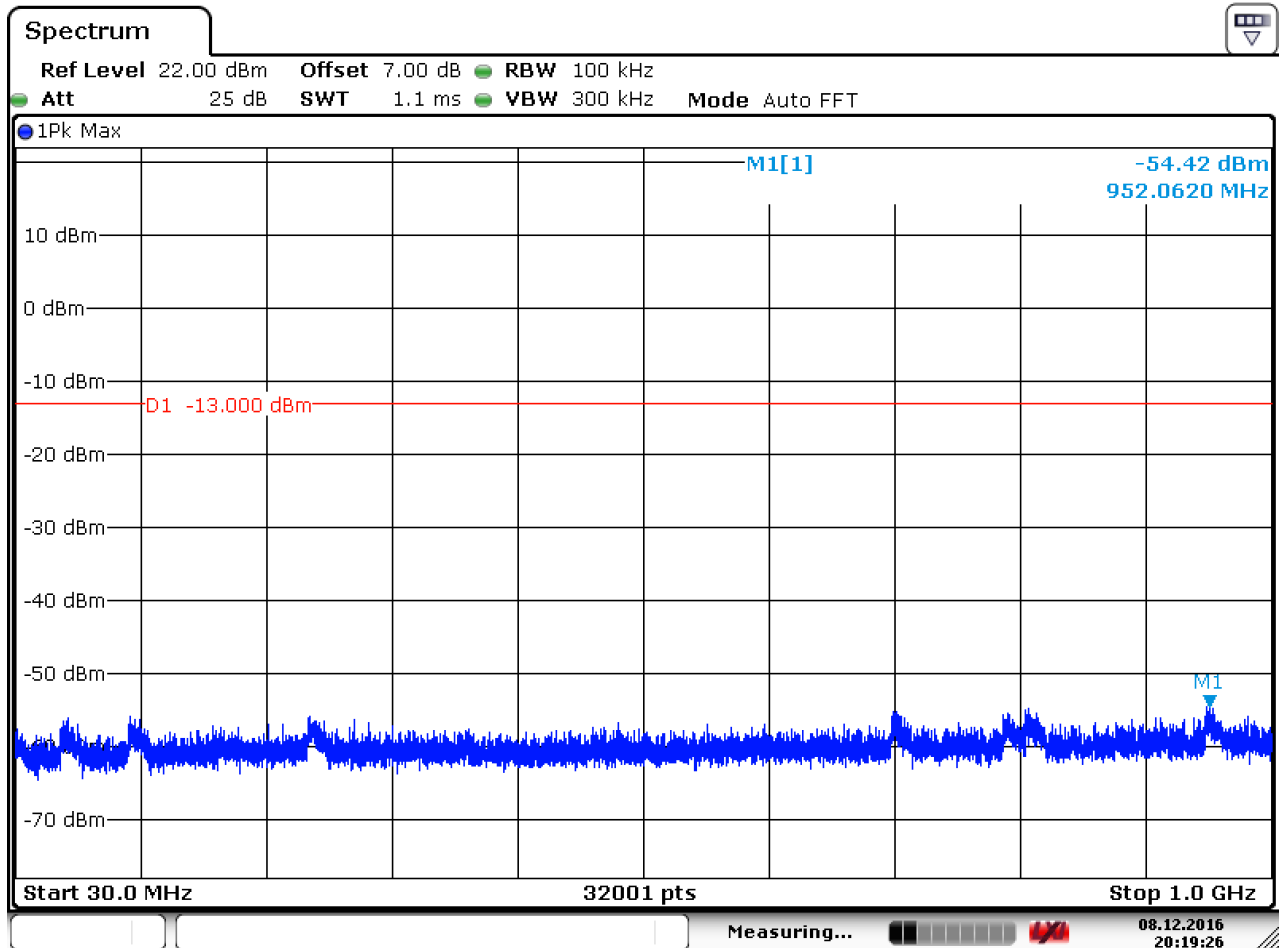


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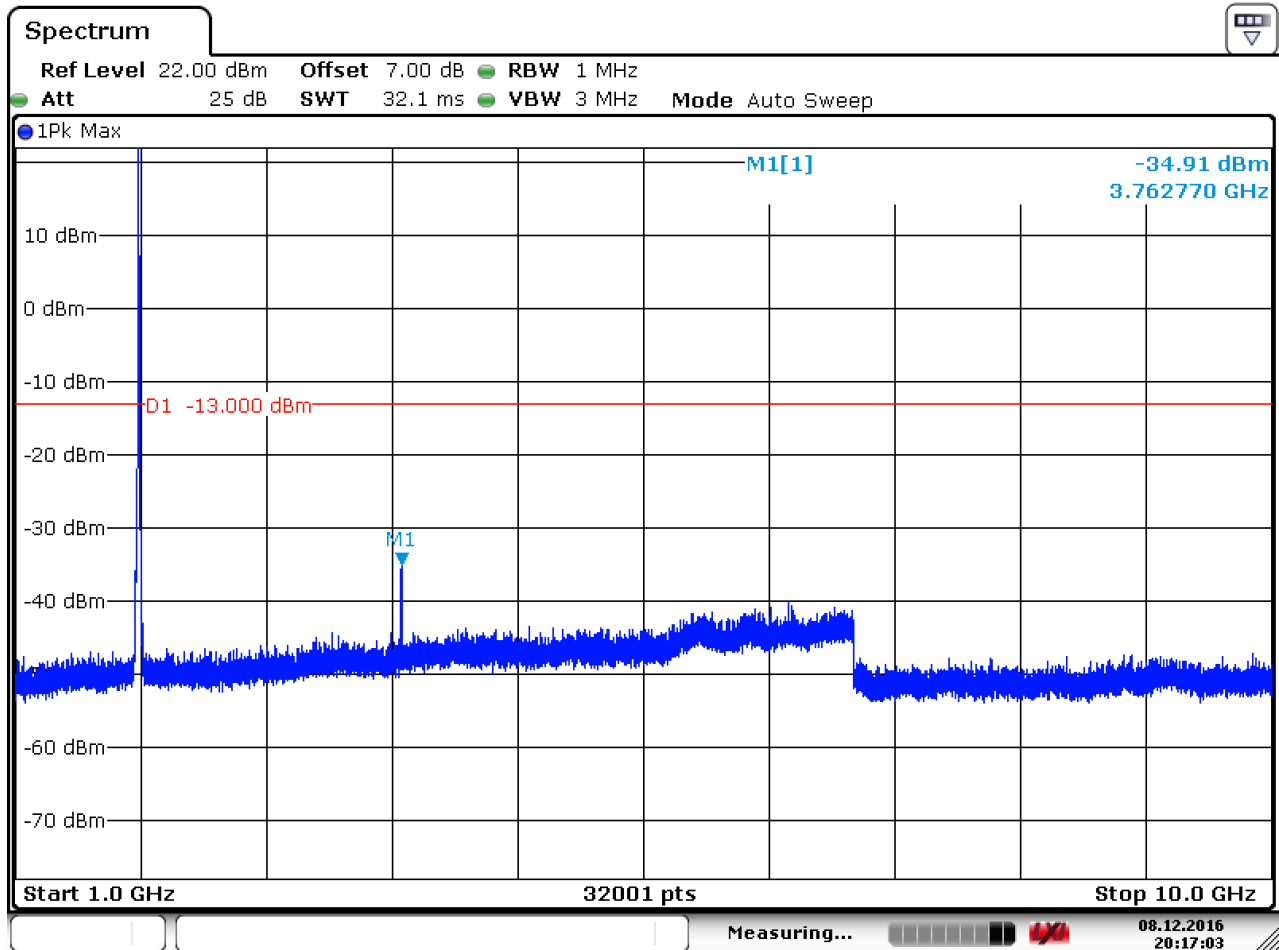
6.1.1.1.2 Test Channel = MCH



Date: 8.DEC.2016 20:19:26

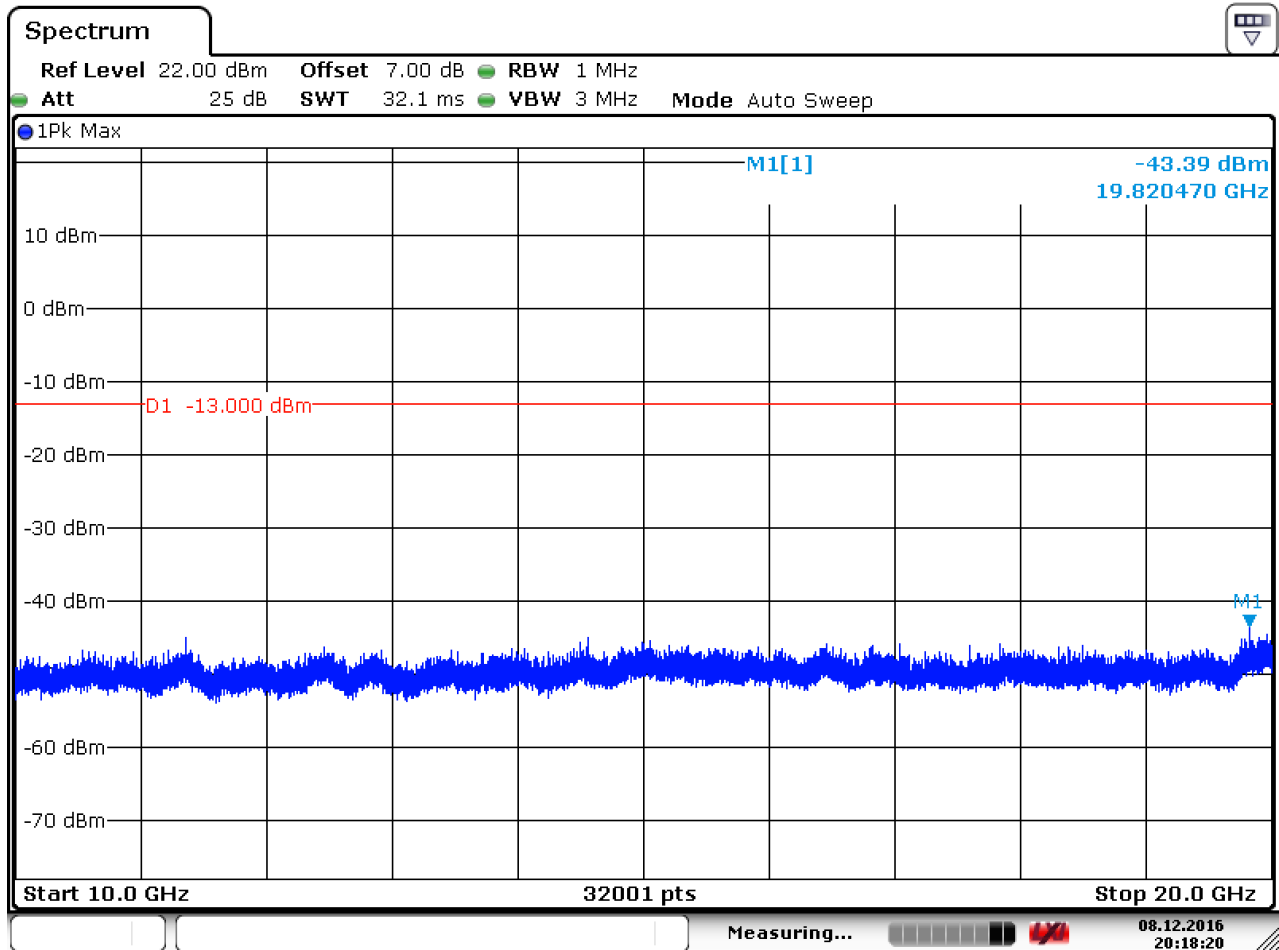
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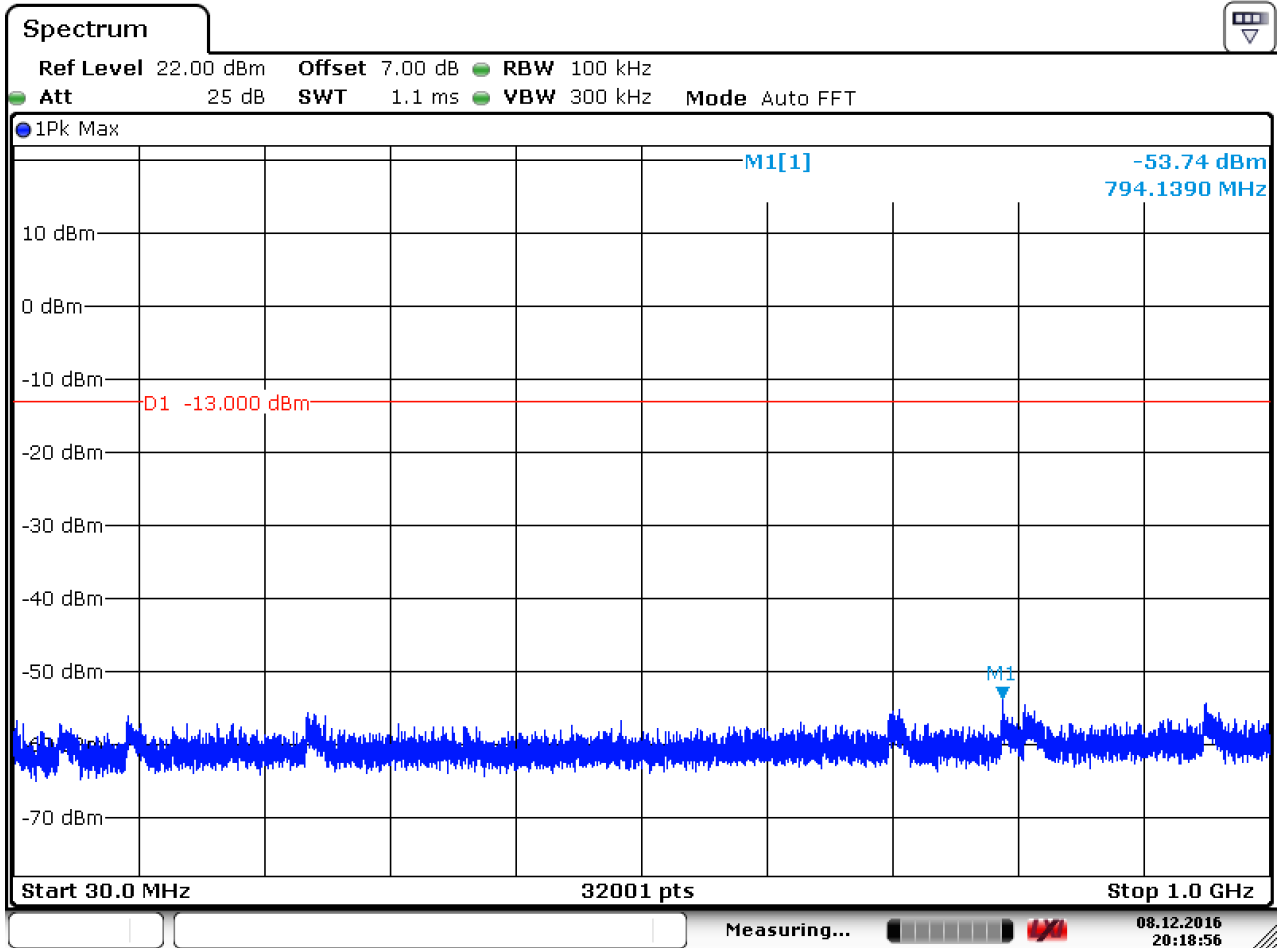


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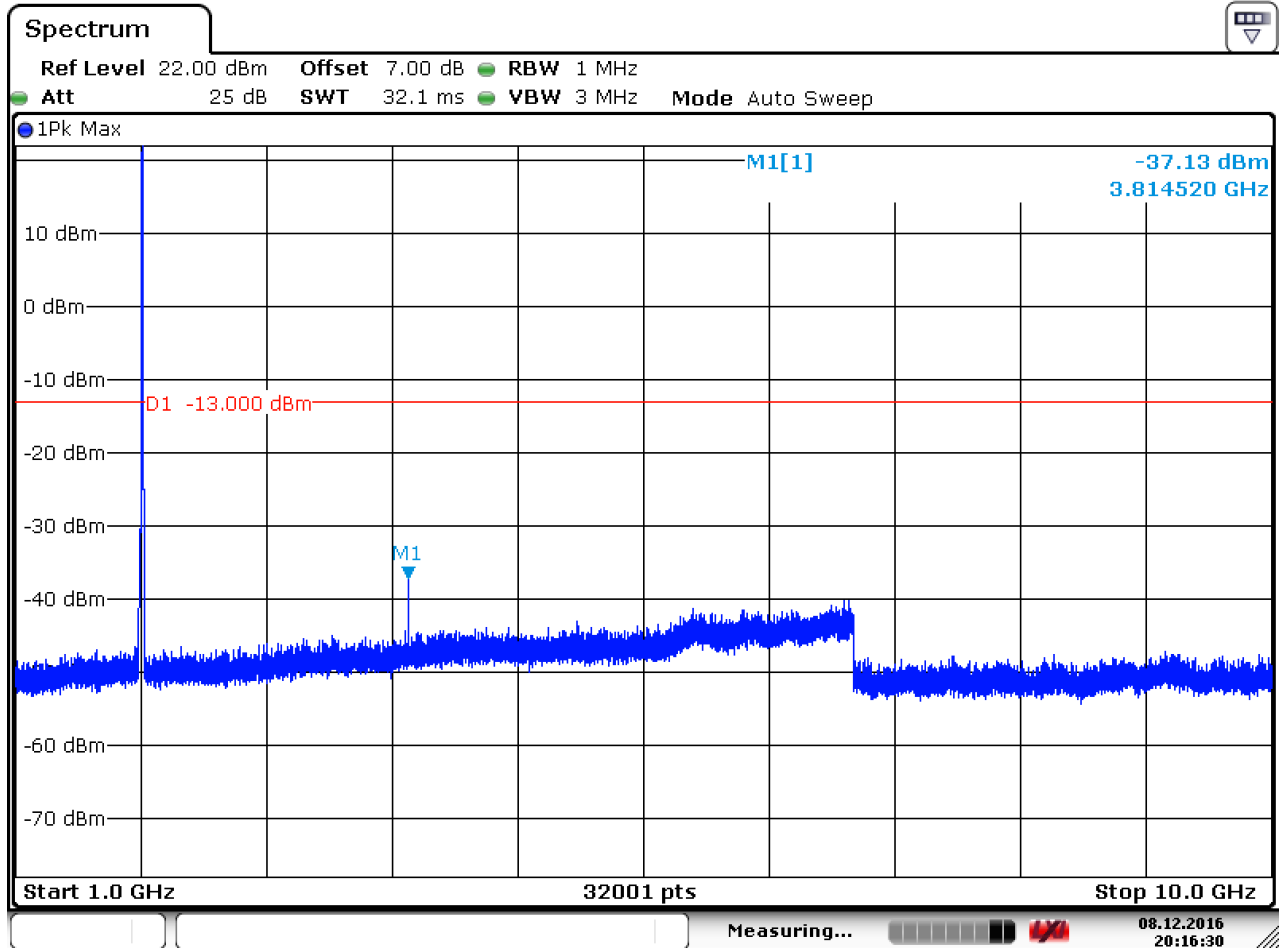


6.1.1.1.3 Test Channel = HCH



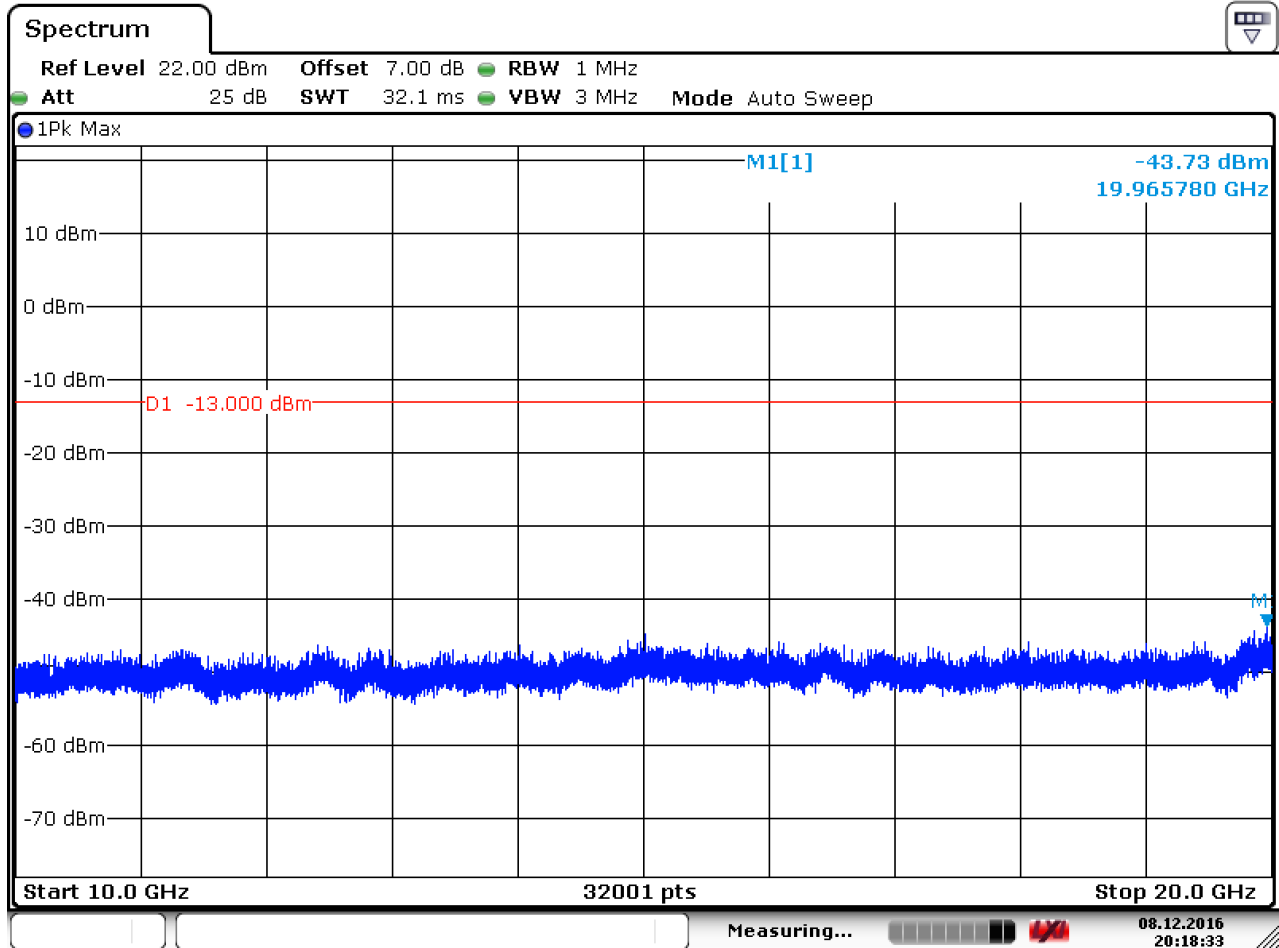
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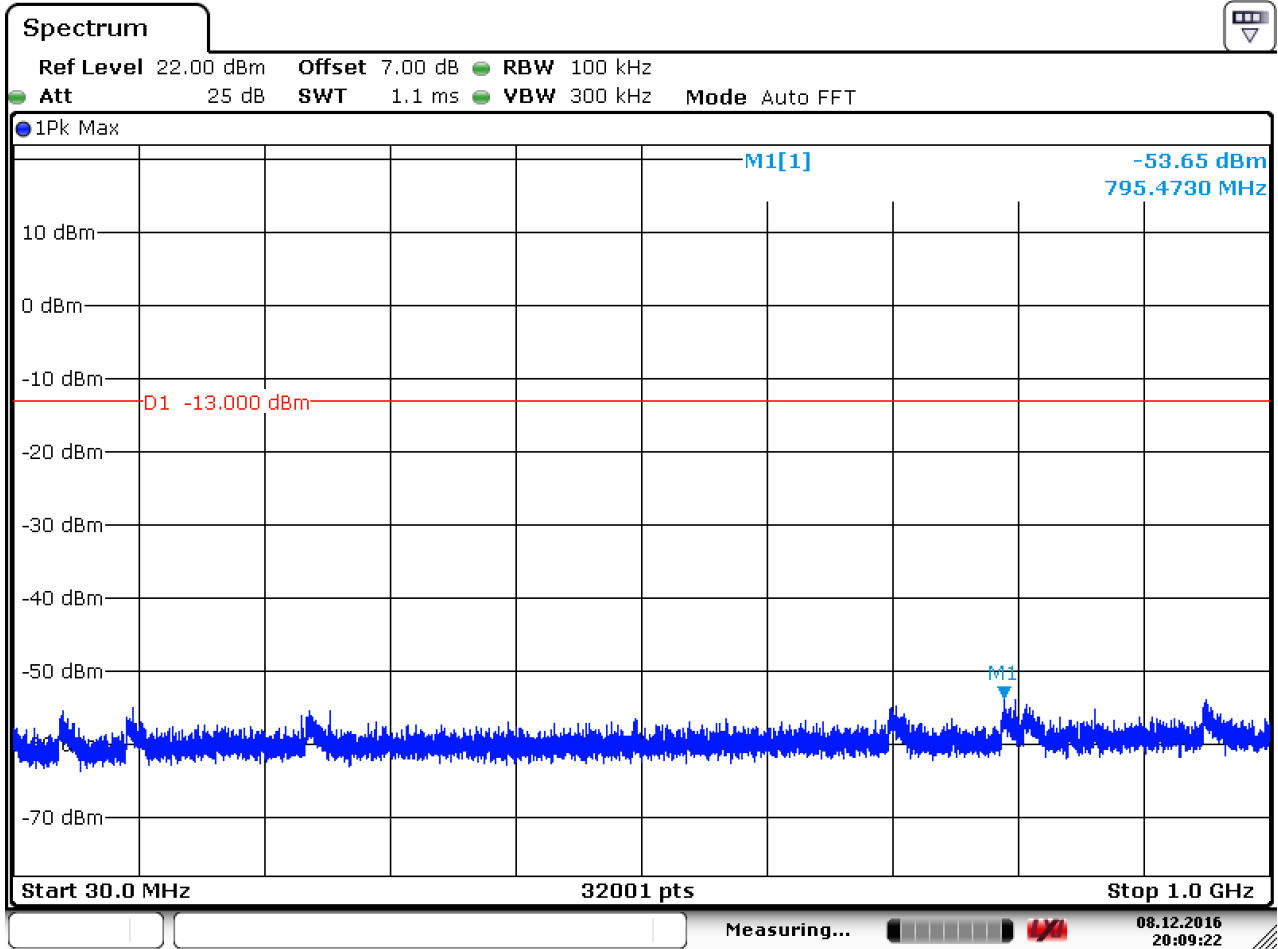
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6.1.2 Test Band = WCDMA 1700

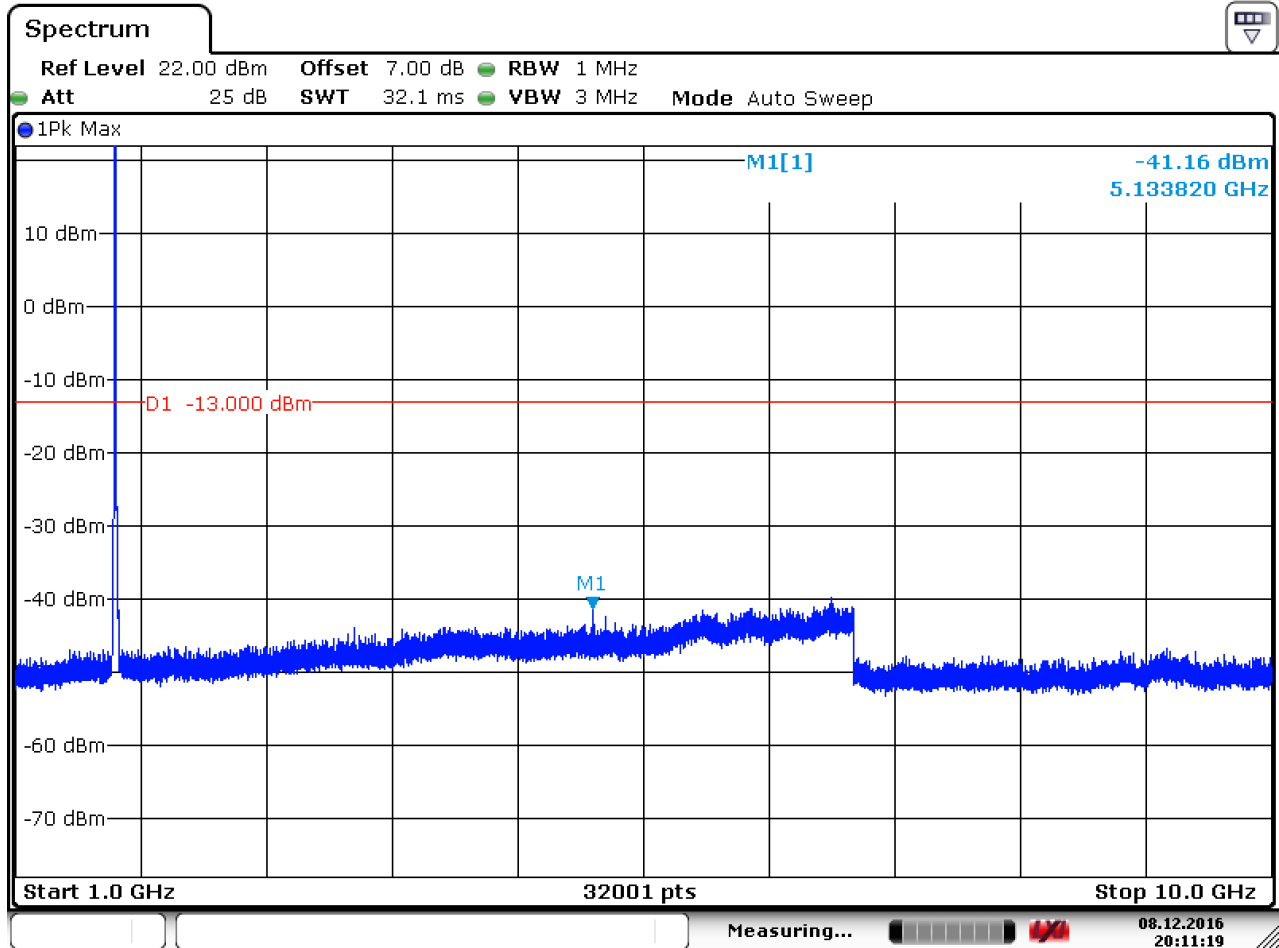
6.1.2.1 Test Mode = UMTS/TM1

6.1.2.1.1 Test Channel = LCH



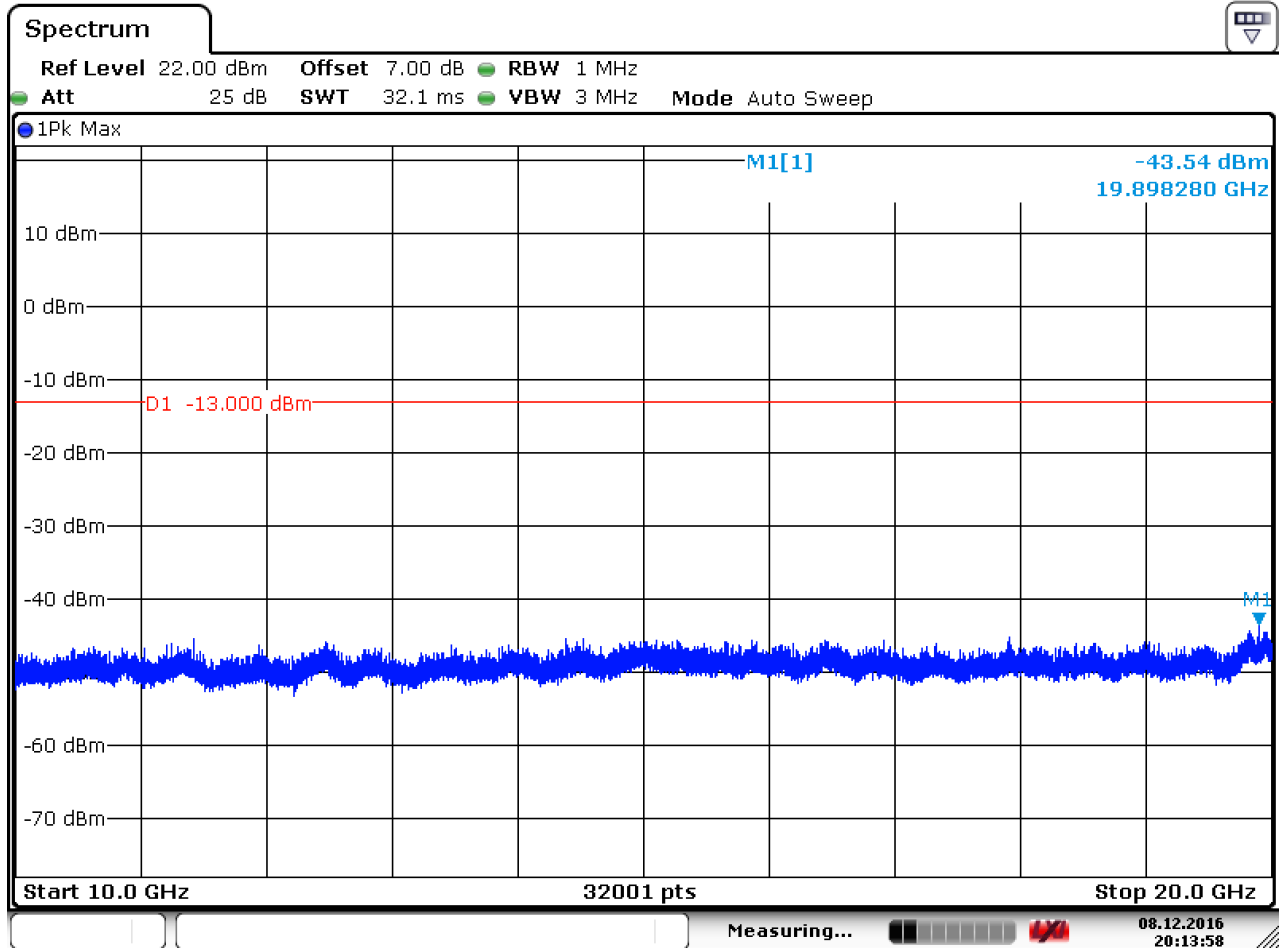
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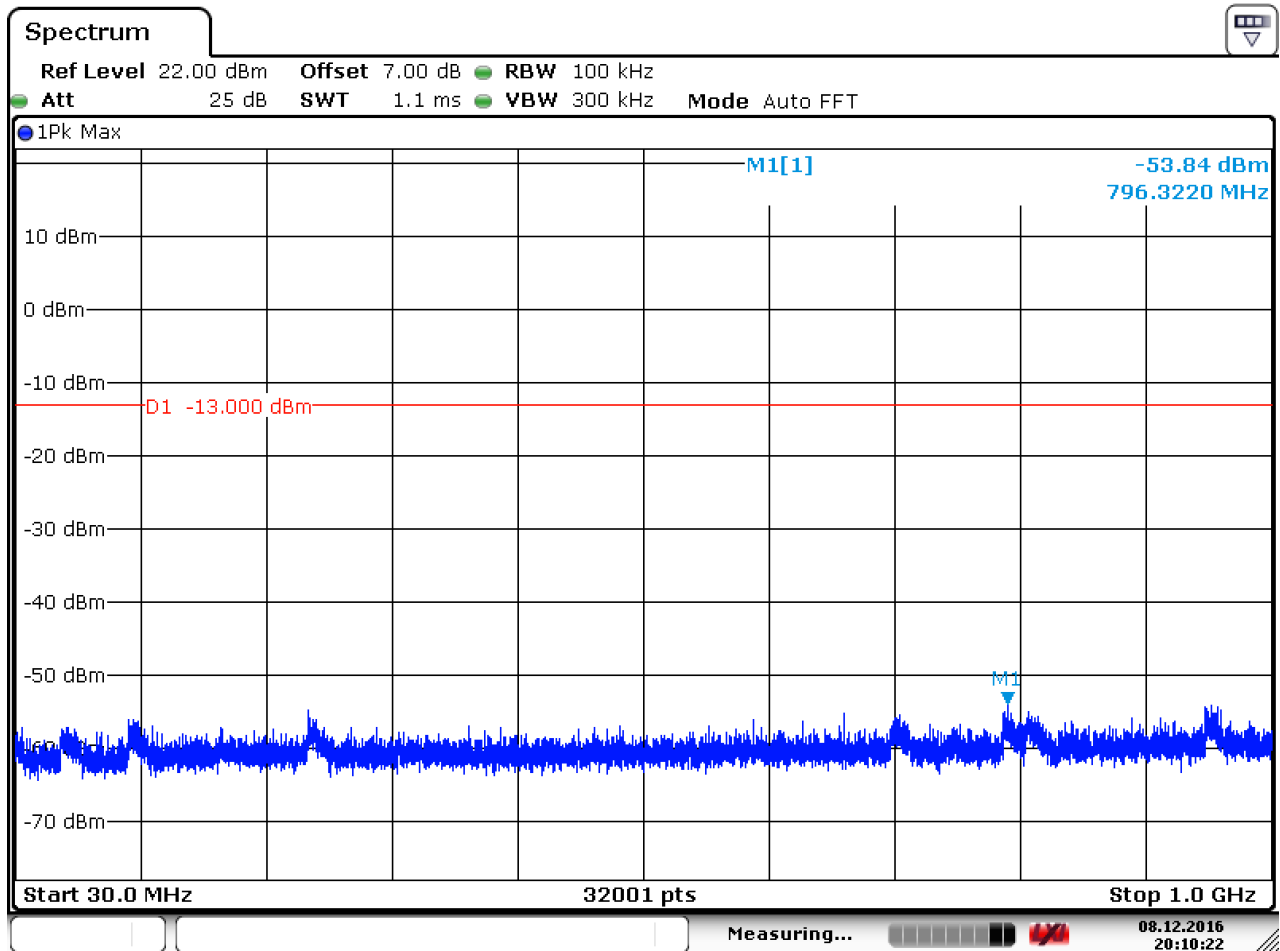
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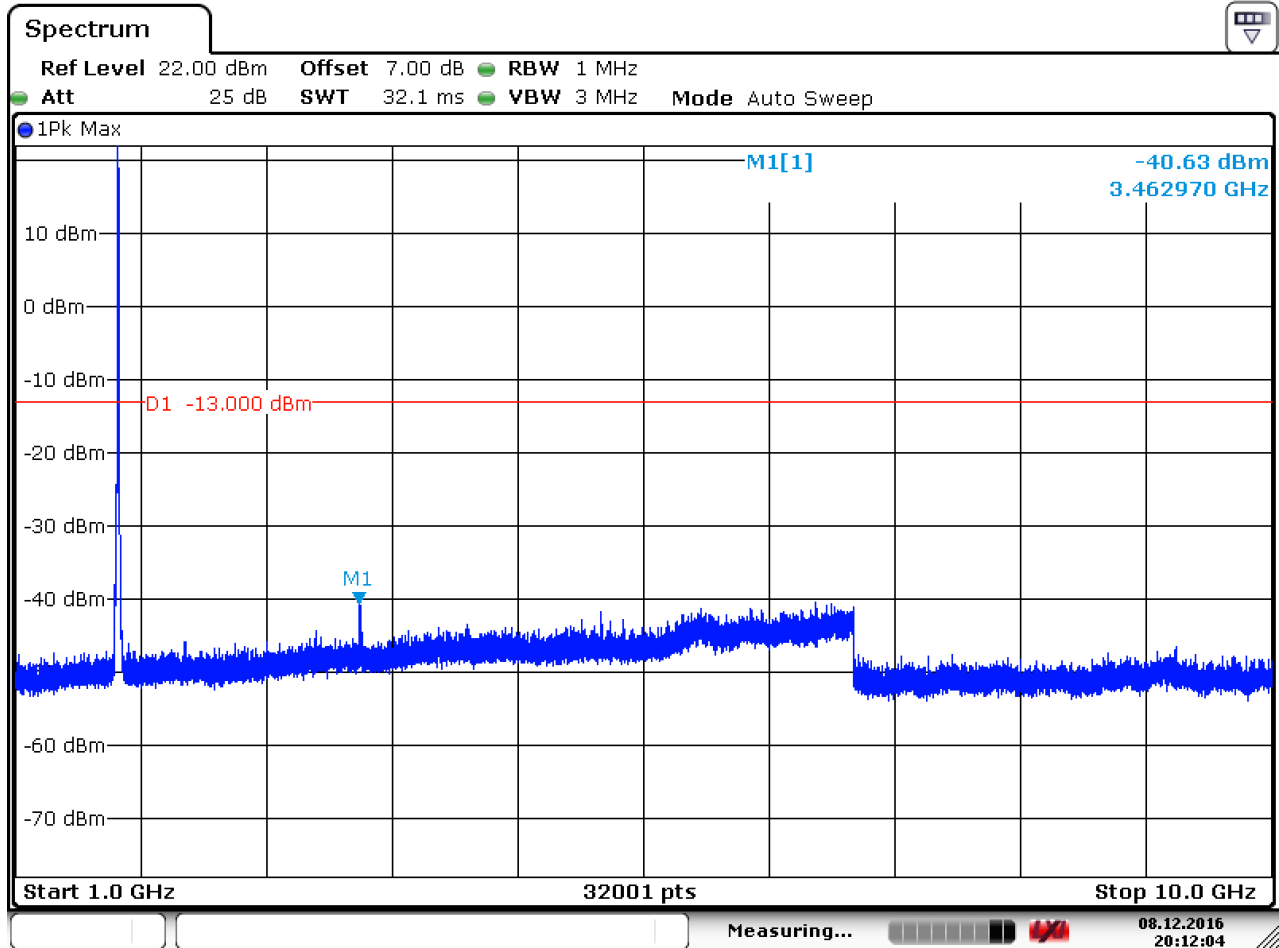




6.1.2.1.2 Test Channel = MCH

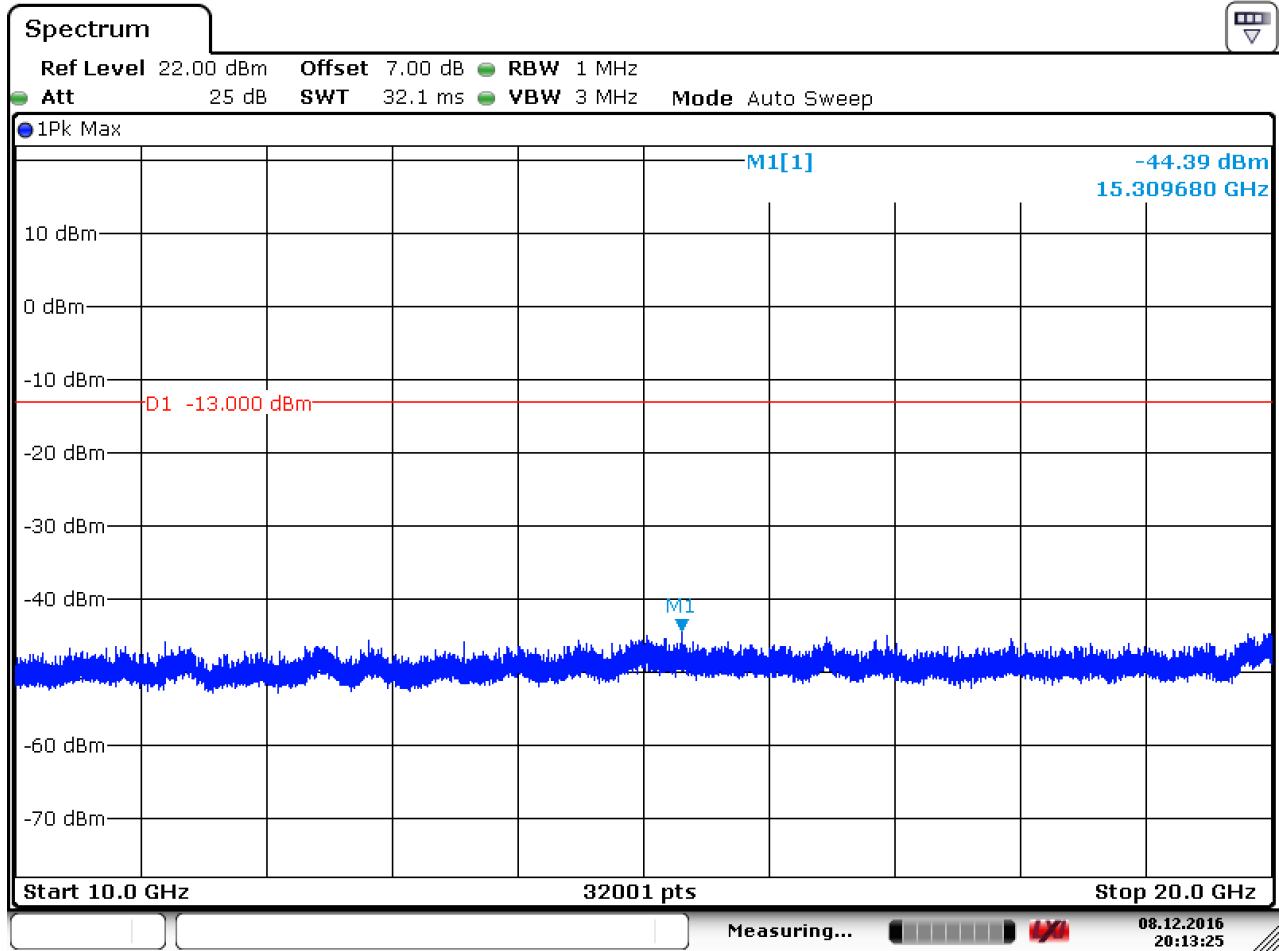


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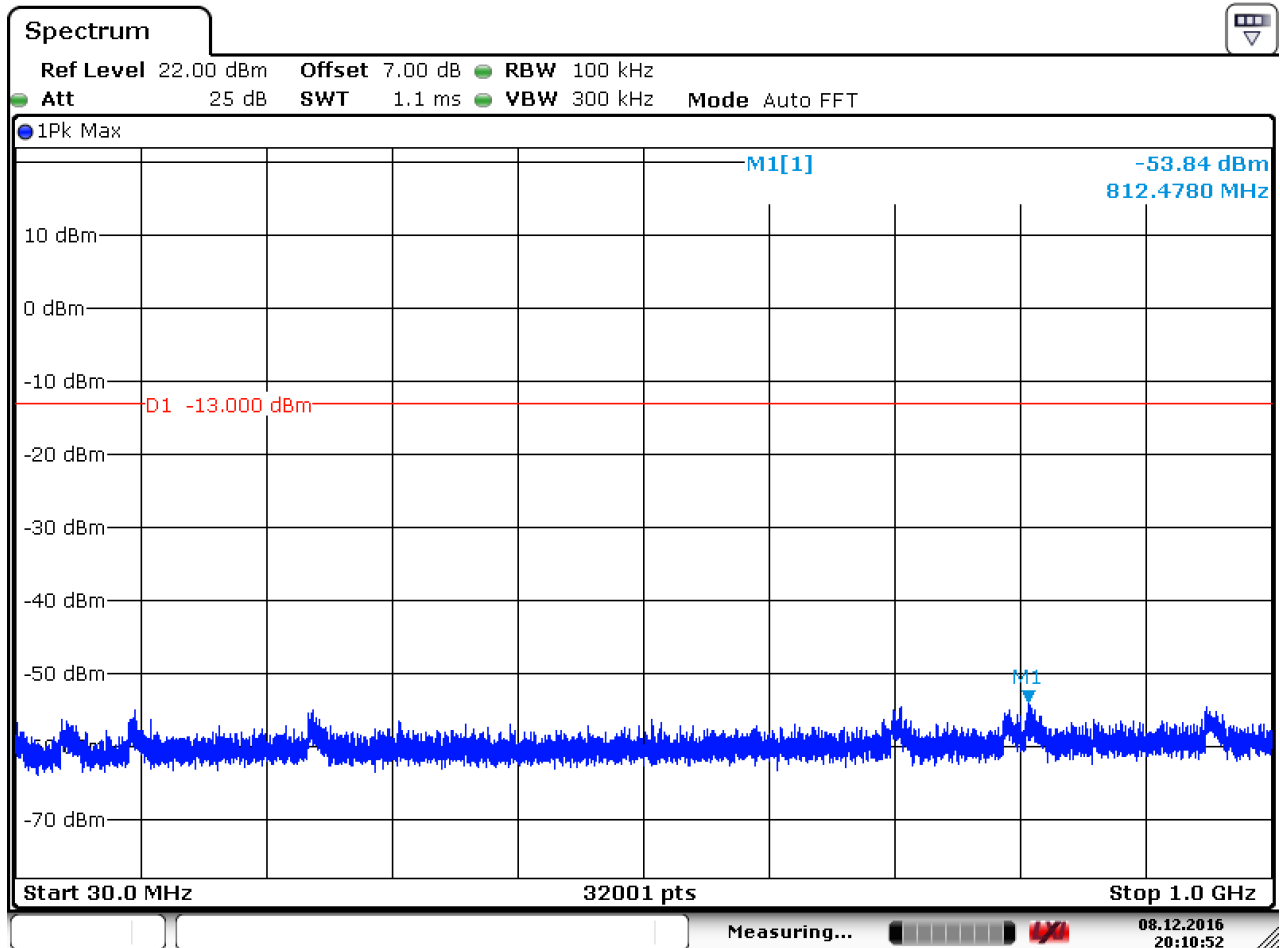


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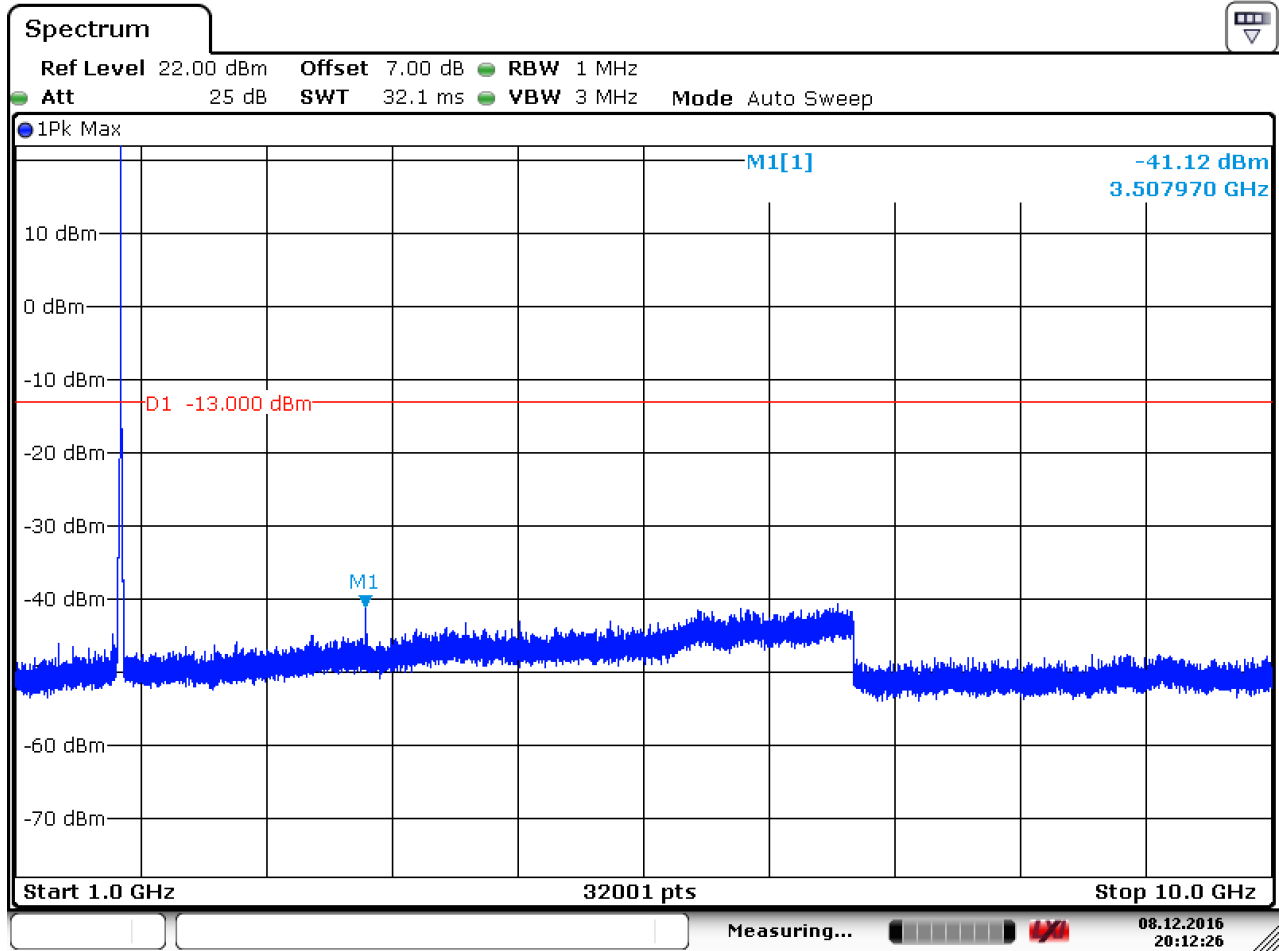


6.1.2.1.3 Test Channel = HCH



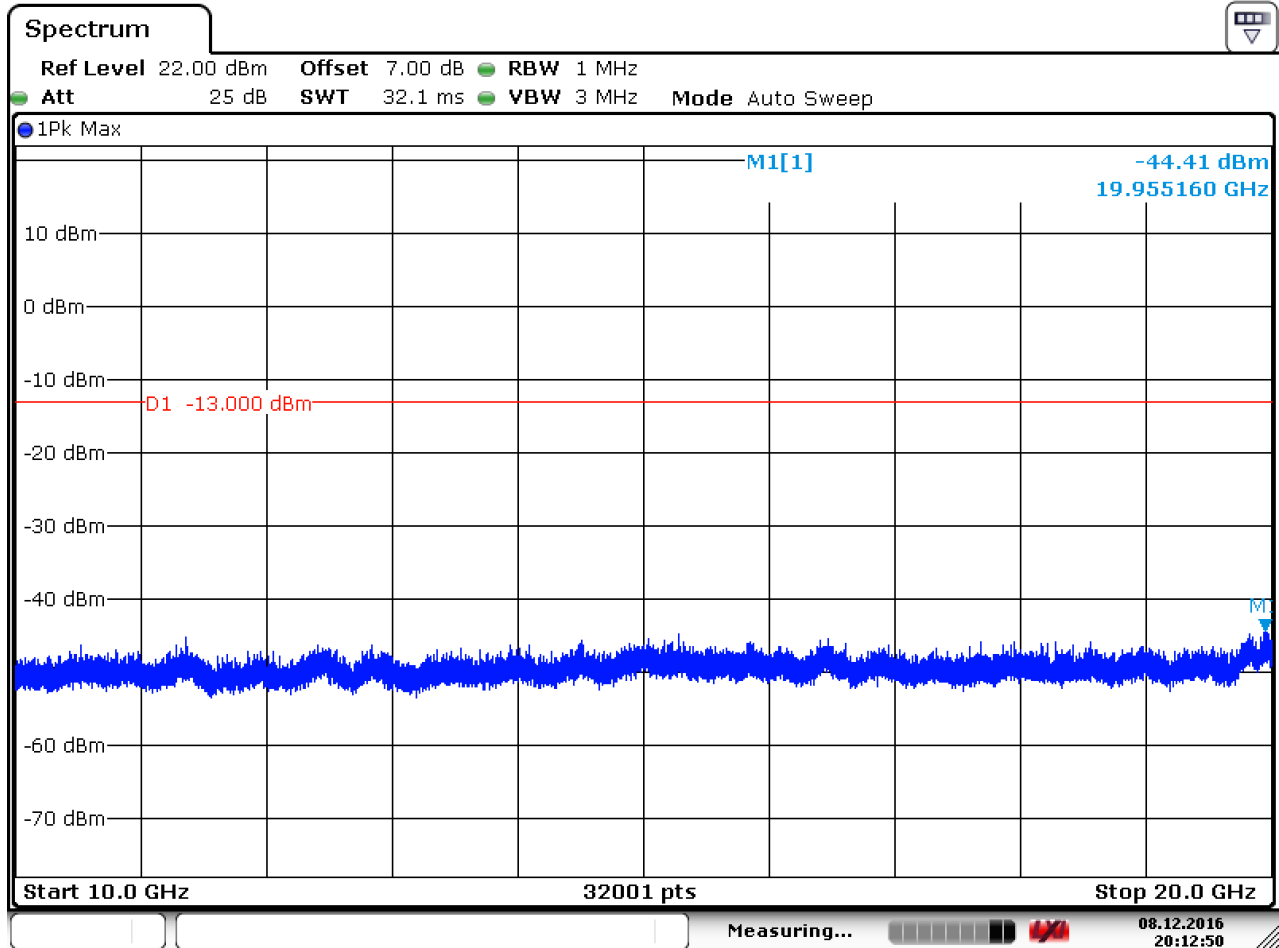
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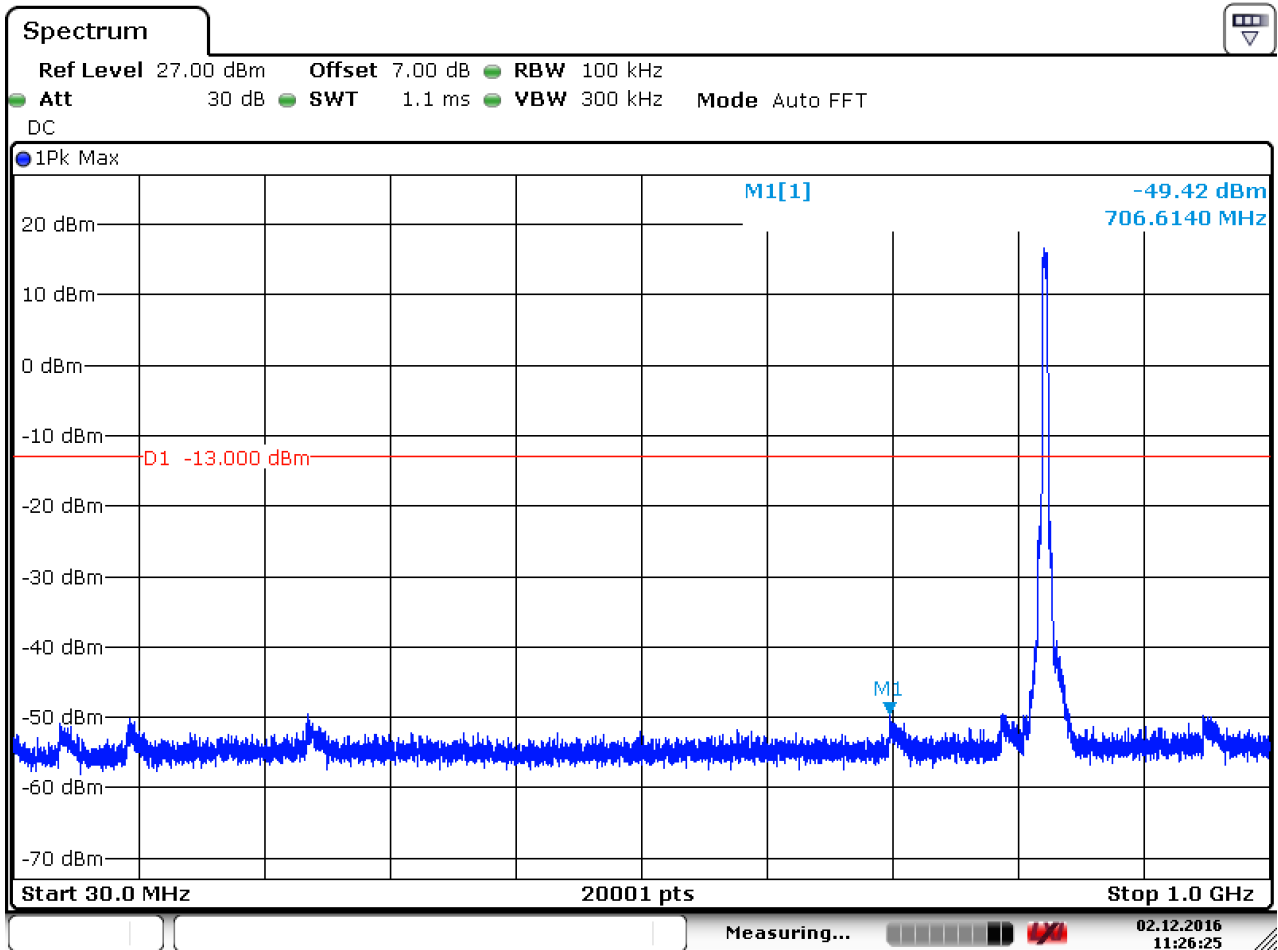
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6.1.3 Test Band = WCDMA 850

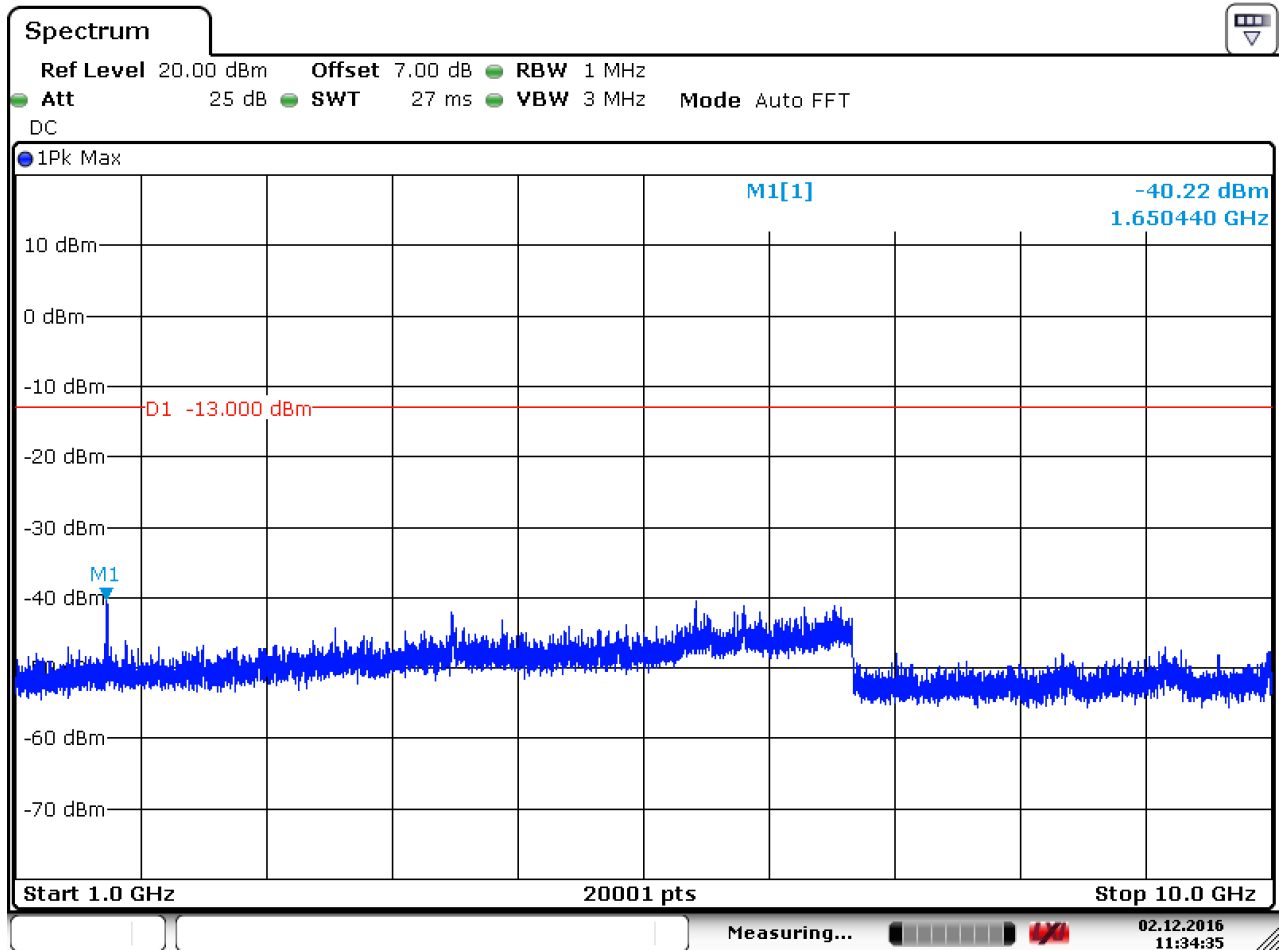
6.1.3.1 Test Mode = UMTS/TM1

6.1.3.1.1 Test Channel = LCH



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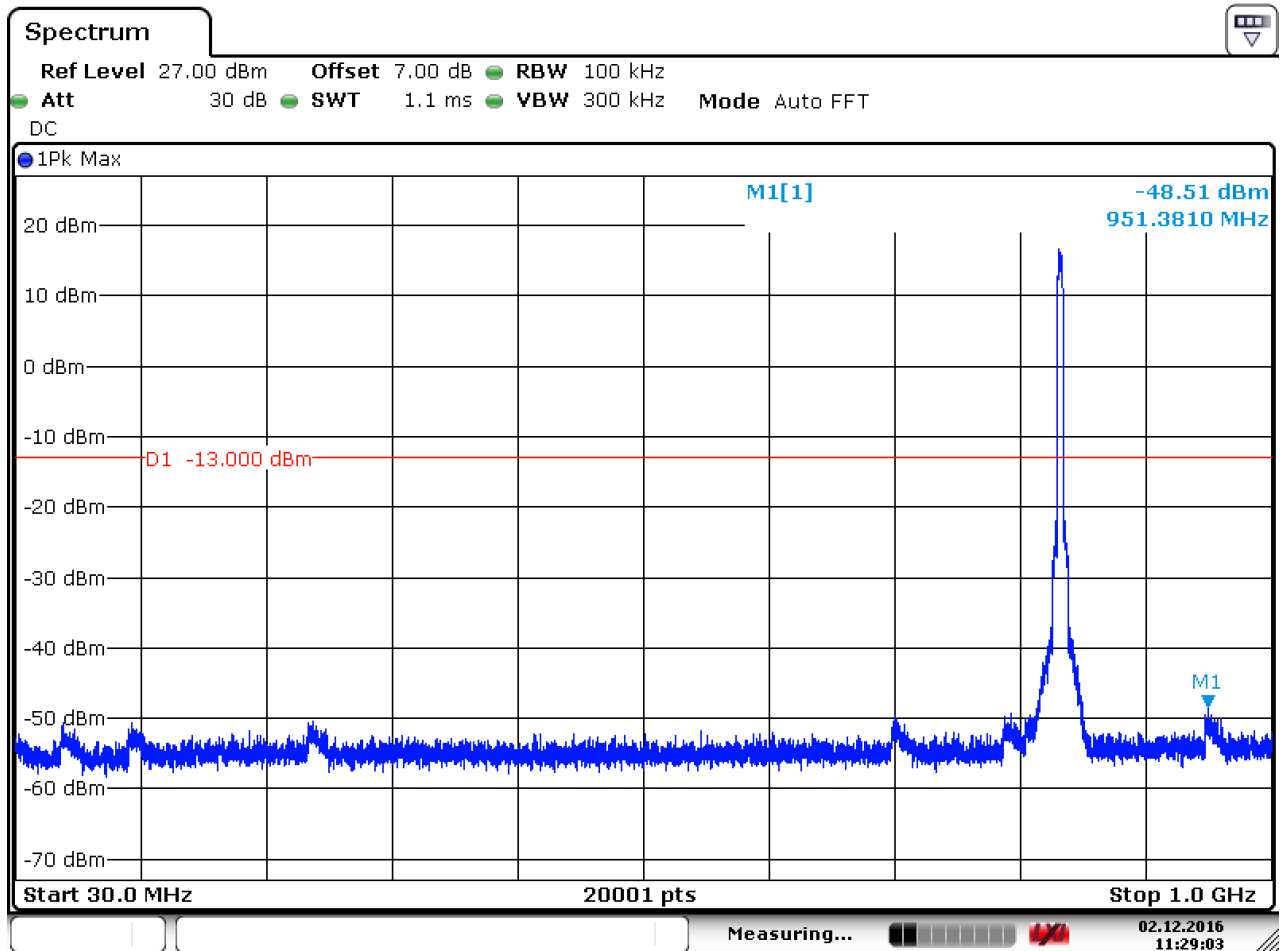
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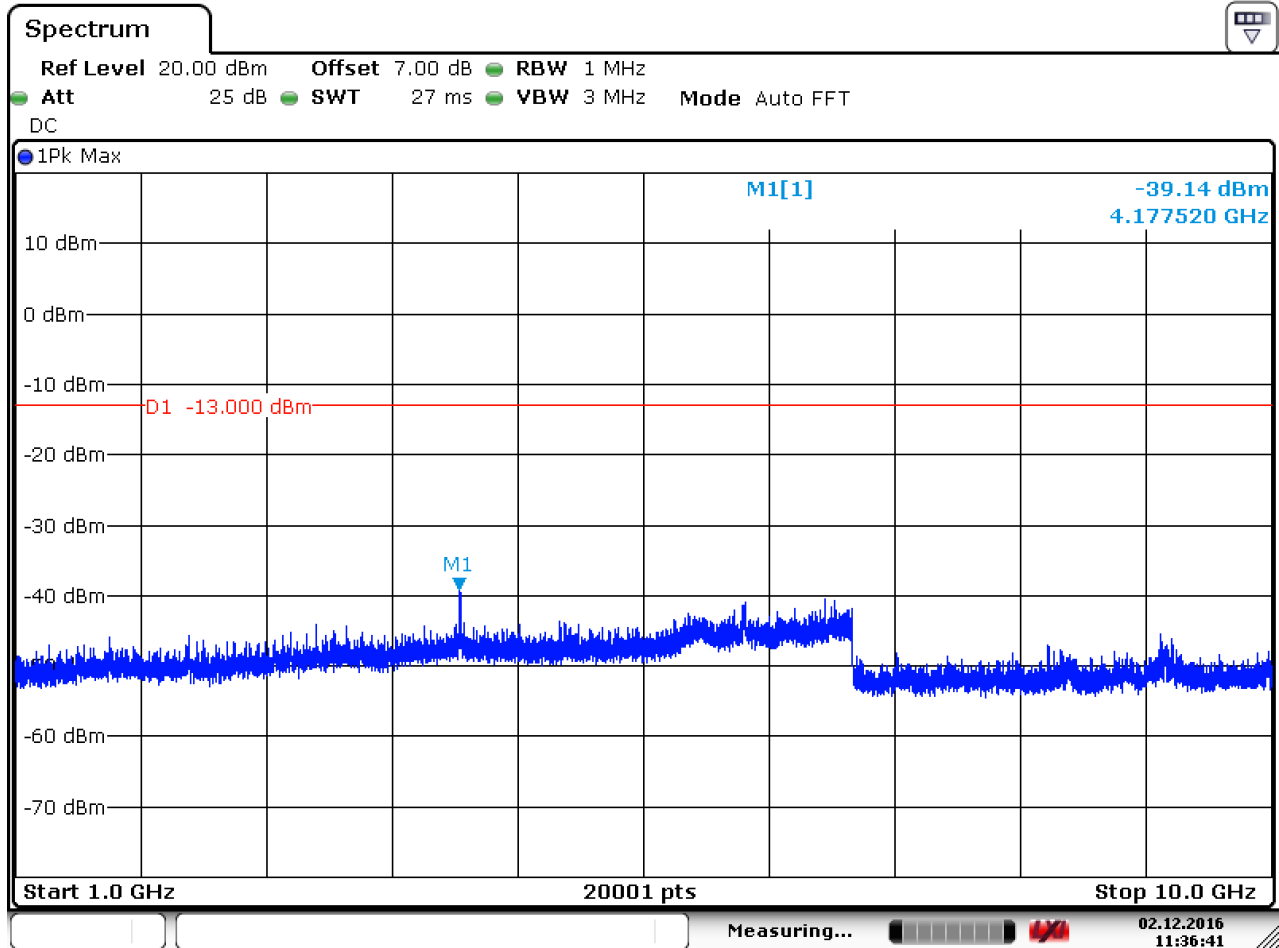


6.1.3.1.2 Test Channel = MCH



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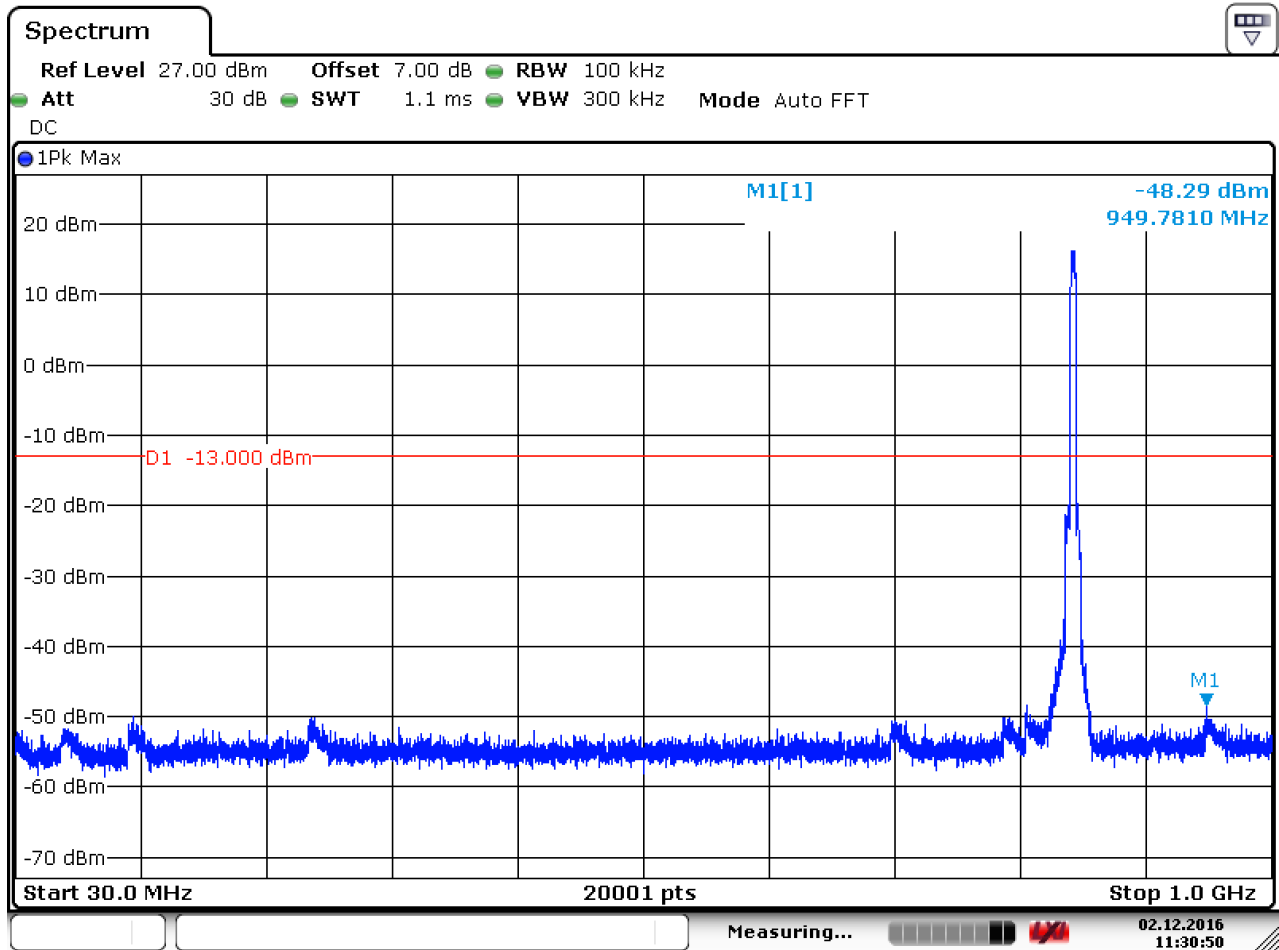


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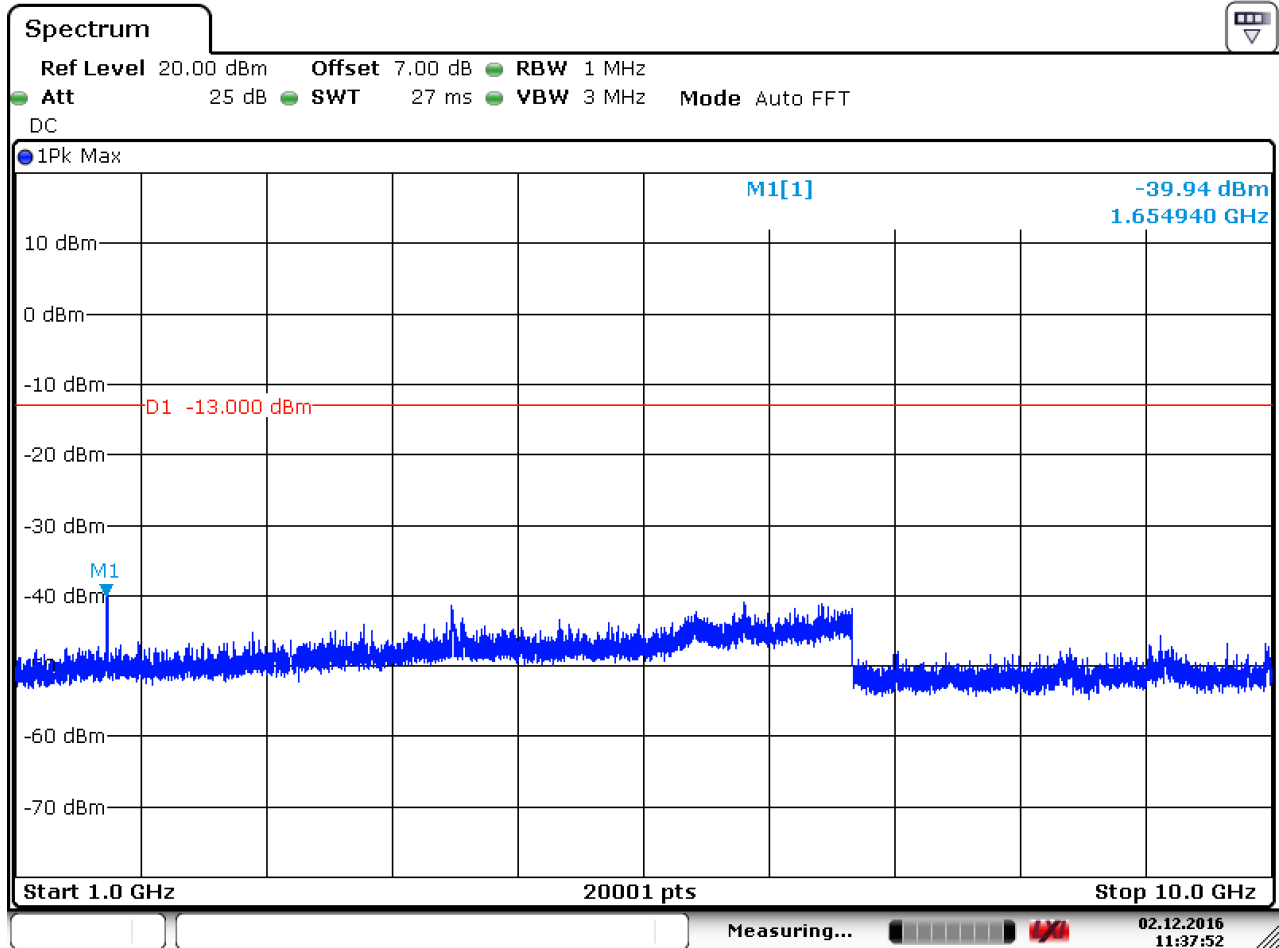


6.1.3.1.3 Test Channel = HCH



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## 7 Field Strength of Spurious Radiation

### Part I - Test Plots

#### 7.1 For WCDMA

##### 7.1.1 Test Band = WCDMA 1900

###### 7.1.1.1 Test Mode = UMTS/TM1

###### 7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
3702.975	-65.08	-13.00	52.08	Vertical
7409.437	-64.62	-13.00	51.62	Vertical
10646.437	-63.82	-13.00	50.82	Vertical
3702.975	-57.20	-13.00	44.20	Horizontal
7409.437	-63.85	-13.00	50.85	Horizontal
10644.975	-63.86	-13.00	50.86	Horizontal

###### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
3757.575	-66.87	-13.00	53.87	Vertical
6950.700	-65.55	-13.00	52.55	Vertical
10649.362	-63.77	-13.00	50.77	Vertical
3758.062	-60.60	-13.00	47.60	Horizontal
7520.100	-64.36	-13.00	51.36	Horizontal
10644.975	-63.91	-13.00	50.91	Horizontal

###### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
3813.150	-66.78	-13.00	53.78	Vertical
6961.425	-65.50	-13.00	52.50	Vertical
10624.987	-63.93	-13.00	50.93	Vertical
3813.150	-62.78	-13.00	49.78	Horizontal
7630.275	-64.18	-13.00	51.18	Horizontal
10611.337	-63.93	-13.00	50.93	Horizontal



### 7.1.2 Test Band = WCDMAband 1700

#### 7.1.2.1 Test Mode = UMTS/TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2112.000	-48.36	-13.00	35.36	Vertical
4838.362	-67.16	-13.00	54.16	Vertical
10637.175	-63.89	-13.00	50.89	Vertical
2113.000	-54.41	-13.00	41.41	Horizontal
5135.737	-66.12	-13.00	53.12	Horizontal
10622.062	-63.82	-13.00	50.82	Horizontal

#### 7.1.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2132.500	-51.54	-13.00	38.54	Vertical
6930.225	-65.21	-13.00	52.21	Vertical
10643.512	-63.93	-13.00	50.93	Vertical
2132.500	-55.60	-13.00	42.60	Horizontal
6930.225	-64.16	-13.00	51.16	Horizontal
10646.437	-63.85	-13.00	50.85	Horizontal

#### 7.1.2.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2153.500	-51.06	-13.00	38.06	Vertical
6282.825	-66.05	-13.00	53.05	Vertical
10625.475	-63.93	-13.00	50.93	Vertical
2152.000	-54.70	-13.00	41.70	Horizontal
7010.175	-63.60	-13.00	50.60	Horizontal
10617.675	-63.87	-13.00	50.87	Horizontal



### 7.1.3 Test Band = WCDMAband 850

#### 7.1.3.1 Test Mode = UMTS/TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1654.000	-62.26	-13.00	49.26	Vertical
4136.850	-65.04	-13.00	52.04	Vertical
9284.850	-64.47	-13.00	51.47	Vertical
1654.000	-60.30	-13.00	47.30	Horizontal
3301.275	-64.50	-13.00	51.50	Horizontal
4136.362	-58.78	-13.00	45.78	Horizontal

#### 7.1.3.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1671.500	-61.55	-13.00	48.55	Vertical
4178.287	-61.87	-13.00	48.87	Vertical
10648.387	-63.92	-13.00	50.92	Vertical
1671.500	-59.42	-13.00	46.42	Horizontal
4178.287	-53.76	-13.00	40.76	Horizontal
9240.000	-64.44	-13.00	51.44	Horizontal

#### 7.1.3.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1695.000	-60.74	-13.00	47.74	Vertical
4237.275	-62.41	-13.00	49.41	Vertical
9243.900	-64.44	-13.00	51.44	Vertical
1695.000	-58.02	-13.00	45.02	Horizontal
4237.275	-54.02	-13.00	41.02	Horizontal
9265.350	-64.39	-13.00	51.39	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
WCDMA 1900	UMTS/TM1	LCH	TN	VL	1.25	0.00067	PASS
				VN	-0.38	-0.00021	PASS
				VH	3.02	0.00163	PASS
		MCH	TN	VL	1.83	0.00097	PASS
				VN	0.75	0.00040	PASS
				VH	-1.32	-0.00070	PASS
		HCH	TN	VL	1.62	0.00085	PASS
				VN	-2.64	-0.00138	PASS
				VH	-4.34	-0.00228	PASS
	UMTS/TM2	LCH	TN	VL	-5.53	-0.00299	PASS
				VN	-6.24	-0.00337	PASS
				VH	-3.48	-0.00188	PASS
		MCH	TN	VL	-5.23	-0.00278	PASS
				VN	-2.12	-0.00113	PASS
				VH	-6.24	-0.00332	PASS
		HCH	TN	VL	1.33	0.00070	PASS
				VN	-4.73	-0.00248	PASS
				VH	-6.11	-0.00320	PASS





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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1700	UMTS/TM1	LCH	TN	VL	-4.15	-0.00242	PASS
				VN	-1.58	-0.00092	PASS
				VH	2.32	0.00135	PASS
		MCH	TN	VL	-3.34	-0.00193	PASS
				VN	0.55	0.00032	PASS
				VH	-2.65	-0.00153	PASS
		HCH	TN	VL	1.72	0.00098	PASS
				VN	-4.61	-0.00263	PASS
				VH	2.45	0.00140	PASS
	UMTS/TM2	LCH	TN	VL	-4.03	-0.00235	PASS
				VN	-2.65	-0.00155	PASS
				VH	-1.05	-0.00061	PASS
		MCH	TN	VL	-3.20	-0.00185	PASS
				VN	-2.89	-0.00167	PASS
				VH	-6.28	-0.00362	PASS
		HCH	TN	VL	2.81	0.00160	PASS
				VN	-3.07	-0.00175	PASS
				VH	-4.29	-0.00245	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 850	UMTS/TM1	LCH	TN	VL	-4.38	-0.00530	PASS
				VN	-0.25	-0.00030	PASS
				VH	1.32	0.00160	PASS
		MCH	TN	VL	-3.83	-0.00458	PASS
				VN	-2.34	-0.00280	PASS
				VH	-1.42	-0.00170	PASS
		HCH	TN	VL	-2.45	-0.00289	PASS
				VN	-4.60	-0.00543	PASS
				VH	2.77	0.00327	PASS
	UMTS/TM2	LCH	TN	VL	-4.63	-0.00560	PASS
				VN	-5.35	-0.00647	PASS
				VH	-2.09	-0.00253	PASS
		MCH	TN	VL	-4.38	-0.00524	PASS
				VN	-1.69	-0.00202	PASS
				VH	-5.72	-0.00684	PASS
		HCH	TN	VL	2.31	0.00273	PASS
				VN	-3.18	-0.00376	PASS
				VH	-4.23	-0.00500	PASS

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## 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1900	UMTS/TM1	LCH	VN	-30	-3.72	-0.00201	PASS
				-20	1.60	0.00086	PASS
				-10	-3.47	-0.00187	PASS
				0	-2.62	-0.00141	PASS
				10	1.36	0.00073	PASS
				20	-4.80	-0.00259	PASS
				30	1.68	0.00091	PASS
				40	-0.44	-0.00024	PASS
				50	-6.24	-0.00337	PASS
		MCH	VN	-30	-2.50	-0.00133	PASS
				-20	-5.72	-0.00304	PASS
				-10	-1.89	-0.00101	PASS
				0	-3.32	-0.00177	PASS
				10	1.35	0.00072	PASS
				20	-2.92	-0.00155	PASS
				30	1.62	0.00086	PASS
				40	0.63	0.00034	PASS
				50	-2.35	-0.00125	PASS
		HCH	VN	-30	-0.14	-0.00007	PASS
				-20	-3.62	-0.00190	PASS
				-10	2.54	0.00133	PASS
				0	-3.22	-0.00169	PASS
				10	1.54	0.00081	PASS
				20	-2.58	-0.00135	PASS
				30	3.60	0.00189	PASS
				40	-0.73	-0.00038	PASS
				50	-4.33	-0.00227	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1900	UMTS/TM2	LCH	VN	-30	-2.59	-0.00140	PASS
				-20	1.26	0.00068	PASS
				-10	-4.97	-0.00268	PASS
				0	0.88	0.00048	PASS
				10	-5.35	-0.00289	PASS
				20	-4.11	-0.00222	PASS
				30	-3.96	-0.00214	PASS
				40	-5.31	-0.00287	PASS
				50	-2.74	-0.00148	PASS
		MCH	VN	-30	-1.98	-0.00105	PASS
				-20	1.29	0.00069	PASS
				-10	-4.34	-0.00231	PASS
				0	1.76	0.00094	PASS
				10	-5.40	-0.00287	PASS
				20	-3.33	-0.00177	PASS
				30	-2.13	-0.00113	PASS
				40	-3.08	-0.00164	PASS
				50	-2.50	-0.00133	PASS
		HCH	VN	-30	-3.25	-0.00170	PASS
				-20	-6.14	-0.00322	PASS
				-10	-3.73	-0.00196	PASS
				0	-5.84	-0.00306	PASS
				10	1.07	0.00056	PASS
				20	-2.03	-0.00106	PASS
				30	-3.12	-0.00164	PASS
				40	-2.84	-0.00149	PASS
				50	-4.17	-0.00219	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1700	UMTS/TM1	LCH	VN	-30	-5.43	-0.00317	PASS
				-20	-4.25	-0.00248	PASS
				-10	1.58	0.00092	PASS
				0	-3.45	-0.00201	PASS
				10	-1.18	-0.00069	PASS
				20	1.28	0.00075	PASS
				30	-3.89	-0.00227	PASS
				40	-5.30	-0.00310	PASS
				50	-4.04	-0.00236	PASS
		MCH	VN	-30	-2.92	-0.00169	PASS
				-20	1.58	0.00091	PASS
				-10	-2.43	-0.00140	PASS
				0	4.34	0.00250	PASS
				10	-2.25	-0.00130	PASS
				20	-4.59	-0.00265	PASS
				30	-3.07	-0.00177	PASS
				40	-4.13	-0.00238	PASS
				50	-2.11	-0.00122	PASS
		HCH	VN	-30	-5.35	-0.00305	PASS
				-20	-3.13	-0.00179	PASS
				-10	1.85	0.00106	PASS
				0	-6.37	-0.00363	PASS
				10	-3.18	-0.00181	PASS
				20	-4.16	-0.00237	PASS
				30	1.51	0.00086	PASS
				40	-2.92	-0.00167	PASS
				50	-4.24	-0.00242	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1700	UMTS/TM2	LCH	VN	-30	-5.15	-0.00301	PASS
				-20	-4.23	-0.00247	PASS
				-10	1.08	0.00063	PASS
				0	-3.47	-0.00203	PASS
				10	-2.71	-0.00158	PASS
				20	-4.68	-0.00273	PASS
				30	1.82	0.00106	PASS
				40	-3.26	-0.00190	PASS
				50	-6.31	-0.00368	PASS
		MCH	VN	-30	-4.42	-0.00255	PASS
				-20	-2.33	-0.00134	PASS
				-10	-4.54	-0.00262	PASS
				0	1.89	0.00109	PASS
				10	-5.25	-0.00303	PASS
				20	-3.15	-0.00182	PASS
				30	-3.07	-0.00177	PASS
				40	1.13	0.00065	PASS
				50	-6.54	-0.00377	PASS
		HCH	VN	-30	-3.45	-0.00197	PASS
				-20	2.32	0.00132	PASS
				-10	1.45	0.00083	PASS
				0	-5.30	-0.00302	PASS
				10	-5.51	-0.00314	PASS
				20	-4.23	-0.00241	PASS
				30	-2.37	-0.00135	PASS
				40	-1.42	-0.00081	PASS
				50	-5.26	-0.00300	PASS

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WCDMA 850	UMTS/TM1	LCH	VN	-30	-4.23	-0.00512	PASS
				-20	1.38	0.00167	PASS
				-10	0.32	0.00039	PASS
				0	-4.94	-0.00598	PASS
				10	1.45	0.00175	PASS
				20	-3.24	-0.00392	PASS
				30	-5.32	-0.00644	PASS
				40	-1.35	-0.00163	PASS
				50	0.53	0.00064	PASS
		MCH	VN	-30	1.34	0.00160	PASS
				-20	-5.54	-0.00662	PASS
				-10	2.01	0.00240	PASS
				0	3.21	0.00384	PASS
				10	-0.43	-0.00051	PASS
				20	1.65	0.00197	PASS
				30	4.22	0.00504	PASS
				40	-3.08	-0.00368	PASS
				50	2.47	0.00295	PASS
		HCH	VN	-30	3.22	0.00380	PASS
				-20	-4.08	-0.00482	PASS
				-10	2.34	0.00276	PASS
				0	1.77	0.00209	PASS
				10	3.06	0.00361	PASS
				20	-4.28	-0.00506	PASS
				30	1.45	0.00171	PASS
				40	-2.34	-0.00276	PASS
				50	-5.75	-0.00679	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 850	UMTS/TM2	LCH	VN	-30	-3.31	-0.00401	PASS
				-20	2.08	0.00252	PASS
				-10	1.07	0.00129	PASS
				0	1.86	0.00225	PASS
				10	-2.76	-0.00334	PASS
				20	2.37	0.00287	PASS
				30	-1.12	-0.00136	PASS
				40	-4.22	-0.00511	PASS
				50	-6.45	-0.00780	PASS
		MCH	VN	-30	2.84	0.00339	PASS
				-20	-2.33	-0.00279	PASS
				-10	-4.26	-0.00509	PASS
				0	-2.08	-0.00249	PASS
				10	1.53	0.00183	PASS
				20	-3.44	-0.00411	PASS
				30	2.22	0.00265	PASS
				40	-3.12	-0.00373	PASS
				50	-5.32	-0.00636	PASS
		HCH	VN	-30	0.43	0.00051	PASS
				-20	-2.55	-0.00301	PASS
				-10	1.05	0.00124	PASS
				0	-3.23	-0.00382	PASS
				10	1.44	0.00170	PASS
				20	-0.22	-0.00026	PASS
				30	-4.05	-0.00478	PASS
				40	1.85	0.00219	PASS
				50	-3.06	-0.00361	PASS

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