



# Appendix for test report



## 1Appendix\_A: Effective (Isotropic) Radiated Power Output Data

### Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
BAND17	LTE/TM1	5	LCH	RB1#0	23.95	18.43	34.70	PASS
				RB1#13	24.06	18.54	34.70	PASS
				RB1#24	23.96	18.43	34.70	PASS
				RB12#0	23.06	17.37	34.70	PASS
				RB12#6	23.01	17.33	34.70	PASS
				RB12#13	23.04	17.50	34.70	PASS
				RB25#0	22.99	17.32	34.70	PASS
			MCH	RB1#0	23.89	18.10	34.70	PASS
				RB1#13	24.02	18.48	34.70	PASS
				RB1#24	24	18.39	34.70	PASS
				RB12#0	22.92	17.38	34.70	PASS
				RB12#6	23.01	17.44	34.70	PASS
				RB12#13	23.05	17.37	34.70	PASS
				RB25#0	22.99	17.20	34.70	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	23.92	18.15	34.70	PASS
				RB1#13	23.99	18.24	34.70	PASS
				RB1#24	23.93	18.17	34.70	PASS
				RB12#0	22.99	17.25	34.70	PASS
				RB12#6	22.95	17.37	34.70	PASS
				RB12#13	22.97	17.28	34.70	PASS
				RB25#0	22.93	17.41	34.70	PASS
		10	LCH	RB1#0	23.86	18.21	34.70	PASS
				RB1#25	23.71	18.00	34.70	PASS
				RB1#49	24	18.36	34.70	PASS
				RB25#0	23.02	17.49	34.70	PASS
				RB25#13	22.92	17.28	34.70	PASS
				RB25#25	23.03	17.42	34.70	PASS
				RB50#0	22.9	17.40	34.70	PASS
				MCH	RB1#0	23.99	18.48	34.70
RB1#25	23.75	18.09	34.70		PASS			
RB1#49	24.01	18.22	34.70		PASS			



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	22.9	17.36	34.70	PASS
				RB25#13	23	17.24	34.70	PASS
				RB25#25	22.99	17.30	34.70	PASS
				RB50#0	22.87	17.16	34.70	PASS
			HCH	RB1#0	23.99	18.27	34.70	PASS
				RB1#25	23.77	18.13	34.70	PASS
				RB1#49	23.9	18.34	34.70	PASS
				RB25#0	23.08	17.34	34.70	PASS
				RB25#13	22.9	17.11	34.70	PASS
				RB25#25	22.96	17.24	34.70	PASS
				RB50#0	22.89	17.35	34.70	PASS
				LCH	RB1#0	23.08	17.42	34.70
			RB1#13		23.17	17.55	34.70	PASS
			RB1#24		23.17	17.38	34.70	PASS
RB12#0	22.08	16.43	34.70		PASS			
RB12#6	21.98	16.38	34.70		PASS			
RB12#13	22.04	16.42	34.70		PASS			



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	21.97	16.36	34.70	PASS
			MCH	RB1#0	23.12	17.36	34.70	PASS
				RB1#13	23.04	17.42	34.70	PASS
				RB1#24	23.04	17.28	34.70	PASS
				RB12#0	21.94	16.37	34.70	PASS
				RB12#6	21.87	16.21	34.70	PASS
				RB12#13	21.91	16.30	34.70	PASS
				RB25#0	21.98	16.37	34.70	PASS
				HCH	RB1#0	23.44	17.92	34.70
			RB1#13		23.5	17.84	34.70	PASS
			RB1#24		23.5	17.78	34.70	PASS
			RB12#0		21.9	16.38	34.70	PASS
			RB12#6		21.9	16.24	34.70	PASS
			RB12#13		21.94	16.18	34.70	PASS
			RB25#0		21.95	16.33	34.70	PASS
		10	LCH	RB1#0	22.77	17.18	34.70	PASS
				RB1#25	22.42	16.67	34.70	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#49	22.8	17.08	34.70	PASS
				RB25#0	21.81	16.10	34.70	PASS
				RB25#13	21.85	16.33	34.70	PASS
				RB25#25	21.96	16.38	34.70	PASS
				RB50#0	21.9	16.18	34.70	PASS
			MCH	RB1#0	23.14	17.36	34.70	PASS
			MCH	RB1#25	22.69	16.94	34.70	PASS
			MCH	RB1#49	23.08	17.56	34.70	PASS
			MCH	RB25#0	21.84	16.18	34.70	PASS
			MCH	RB25#13	21.84	16.24	34.70	PASS
			MCH	RB25#25	22	16.49	34.70	PASS
			MCH	RB50#0	21.85	16.25	34.70	PASS
			HCH	RB1#0	23.32	17.57	34.70	PASS
			HCH	RB1#25	22.82	17.05	34.70	PASS
			HCH	RB1#49	23.17	17.41	34.70	PASS
			HCH	RB25#0	21.92	16.17	34.70	PASS
			HCH	RB25#13	21.89	16.27	34.70	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#25	21.92	16.39	34.70	PASS
				RB50#0	21.84	16.28	34.70	PASS

Note1:

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

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

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

b, SGP=Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 * \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time=auto-couple.

Detector:RMS



## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND17	LTE/TM1	5	LCH	RB1#0	4.74	13	PASS
				RB1#13	4.98	13	PASS
				RB1#24	4.86	13	PASS
				RB12#0	5.61	13	PASS
				RB12#6	5.67	13	PASS
				RB12#13	5.66	13	PASS
			RB25#0	5.89	13	PASS	
			MCH	RB1#0	4.92	13	PASS
				RB1#13	4.69	13	PASS
				RB1#24	4.41	13	PASS
				RB12#0	5.8	13	PASS
				RB12#6	5.61	13	PASS
		RB12#13		5.33	13	PASS	
		RB25#0	5.78	13	PASS		
		HCH	RB1#0	4.31	13	PASS	
			RB1#13	4.26	13	PASS	
			RB1#24	4.15	13	PASS	
			RB12#0	5.45	13	PASS	
			RB12#6	5.36	13	PASS	
			RB12#13	5.46	13	PASS	
		RB25#0	5.9	13	PASS		
		10	LCH	RB1#0	4.43	13	PASS
				RB1#25	4.47	13	PASS
				RB1#49	4.3	13	PASS
RB25#0	5.97			13	PASS		
RB25#13	5.75			13	PASS		
RB25#25	5.61			13	PASS		
RB50#0	6.15		13	PASS			
MCH	RB1#0		4.51	13	PASS		
	RB1#25		4.52	13	PASS		
	RB1#49		4.1	13	PASS		
	RB25#0		5.74	13	PASS		
	RB25#13		5.64	13	PASS		
	RB25#25	5.42	13	PASS			





Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict	
				RB50#0	5.83	13	PASS	
			HCH	RB1#0	4.78	13	PASS	
				RB1#25	4.41	13	PASS	
				RB1#49	4.13	13	PASS	
				RB25#0	5.75	13	PASS	
				RB25#13	5.44	13	PASS	
				RB25#25	5.45	13	PASS	
				RB50#0	6	13	PASS	
	LTE/TM2	5		LCH	RB1#0	5.69	13	PASS
					RB1#13	5.99	13	PASS
					RB1#24	5.71	13	PASS
					RB12#0	6.66	13	PASS
					RB12#6	6.72	13	PASS
					RB12#13	6.59	13	PASS
					RB25#0	6.85	13	PASS
				MCH	RB1#0	5.31	13	PASS
					RB1#13	5.15	13	PASS
					RB1#24	4.86	13	PASS
					RB12#0	6.48	13	PASS
					RB12#6	6.56	13	PASS
					RB12#13	6.45	13	PASS
					RB25#0	6.92	13	PASS
		HCH	RB1#0	5.21	13	PASS		
			RB1#13	5.09	13	PASS		
			RB1#24	4.95	13	PASS		
			RB12#0	6.05	13	PASS		
			RB12#6	5.91	13	PASS		
			RB12#13	6	13	PASS		
			RB25#0	6.59	13	PASS		
		10	LCH	RB1#0	5.72	13	PASS	
				RB1#25	5.73	13	PASS	
				RB1#49	5.24	13	PASS	
				RB25#0	6.91	13	PASS	
RB25#13	6.67			13	PASS			
RB25#25	6.39			13	PASS			
RB50#0	6.74			13	PASS			
MCH	RB1#0		5.65	13	PASS			
	RB1#25		5.71	13	PASS			
			RB1#49	5.14	13	PASS		



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.96	13	PASS
				RB25#13	6.77	13	PASS
				RB25#25	6.58	13	PASS
				RB50#0	6.81	13	PASS
			HCH	RB1#0	5.38	13	PASS
				RB1#25	5.24	13	PASS
				RB1#49	5.01	13	PASS
				RB25#0	6.6	13	PASS
				RB25#13	6.4	13	PASS
				RB25#25	6.34	13	PASS
				RB50#0	6.59	13	PASS

### 3Appendix\_C: Modulation Characteristics

#### Part I - Test Plots

##### 3.1 For LTE

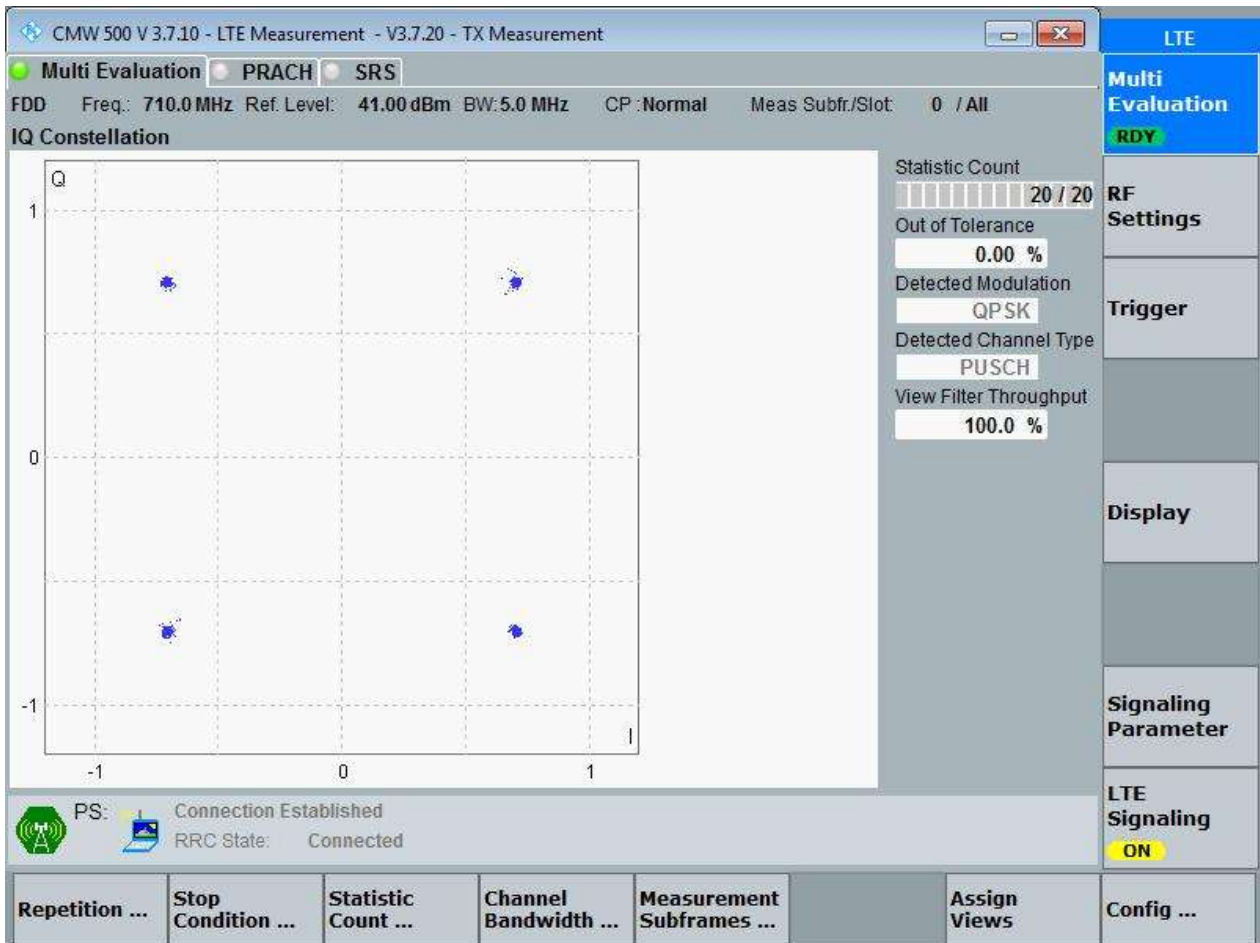
##### 3.1.1 Test Band = BAND17

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

##### 3.1.1.1.1 Test Bandwidth = 5

##### 3.1.1.1.1.1 Test Channel = MCH

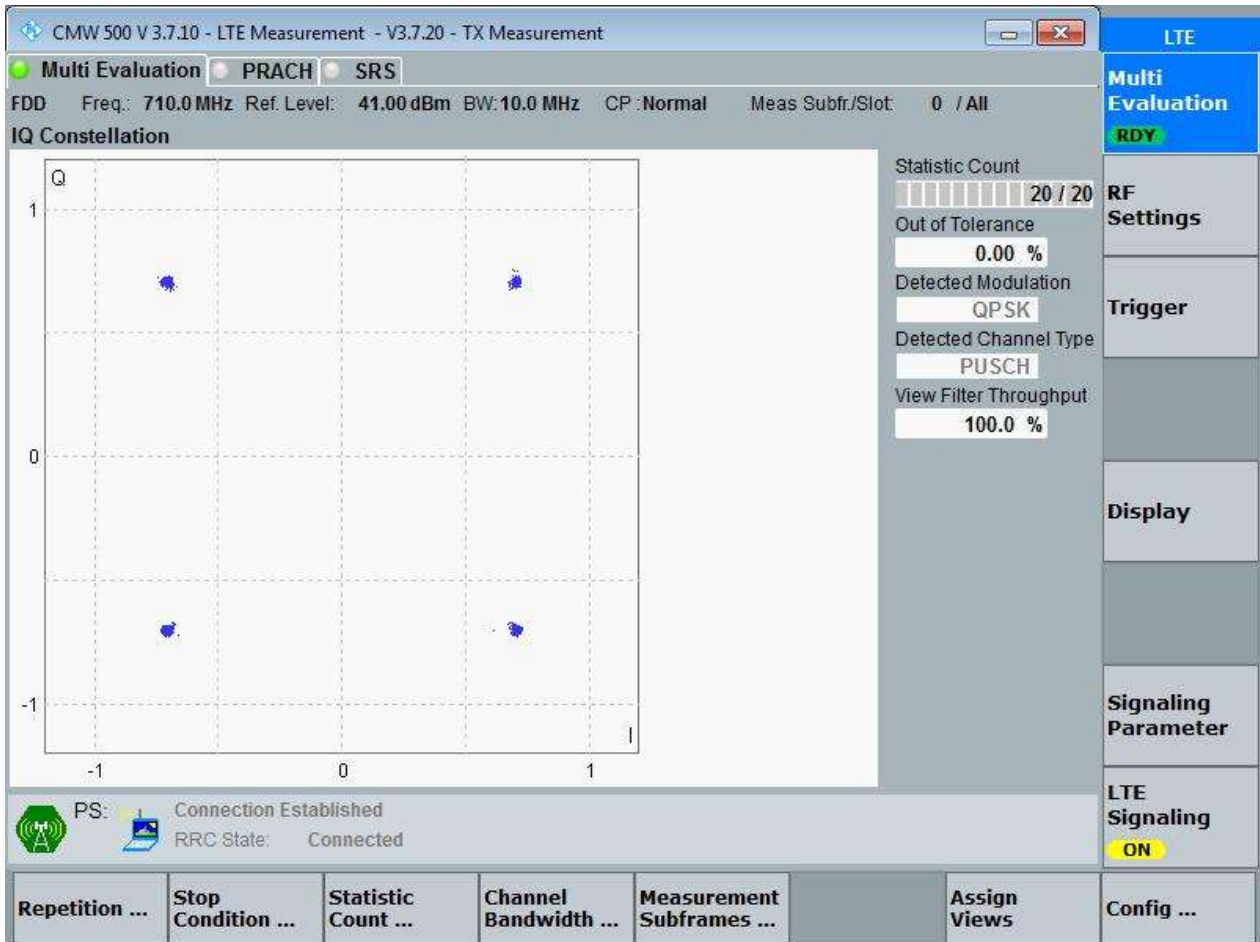
##### 3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0

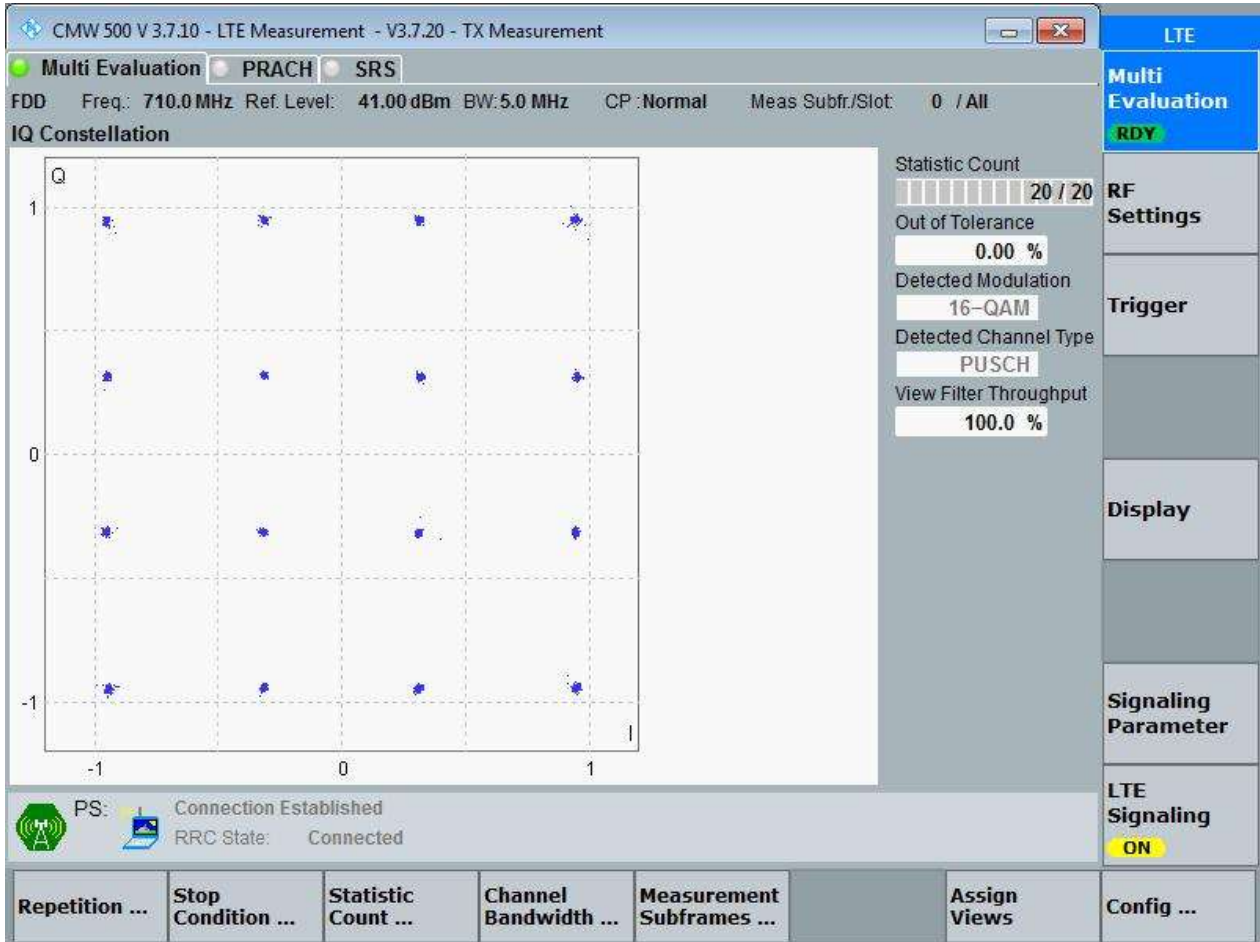


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

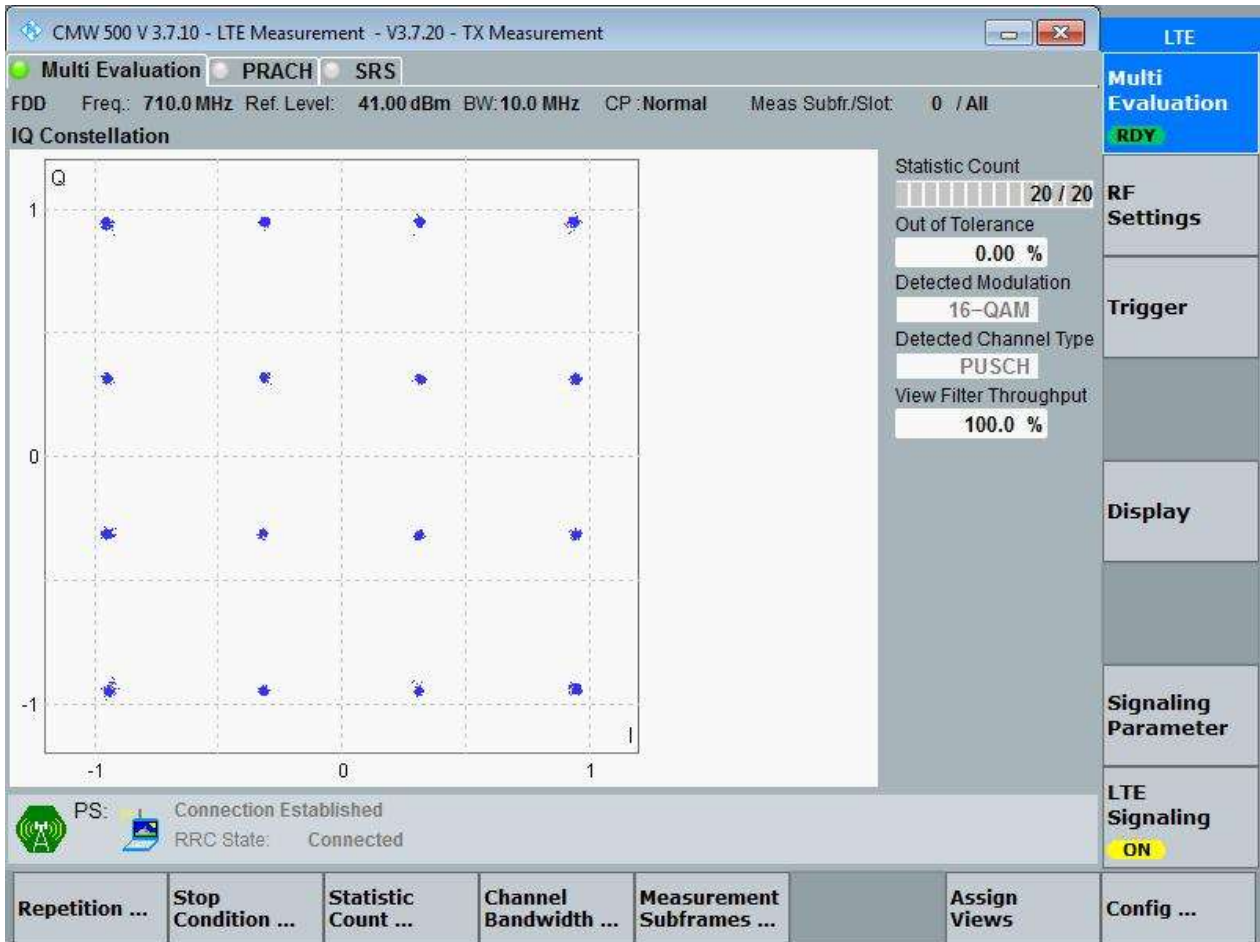
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0





## 4Appendix\_D: Bandwidth

### Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND17	LTE/TM1	5	LCH	RB25#0	4.53	4.98	Pass
			MCH	RB25#0	4.51	4.98	Pass
			HCH	RB25#0	4.50	4.97	Pass
		10	LCH	RB50#0	8.99	9.91	Pass
			MCH	RB50#0	8.99	9.86	Pass
			HCH	RB50#0	8.99	9.93	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	4.96	Pass
			MCH	RB25#0	4.52	4.97	Pass
			HCH	RB25#0	4.51	4.97	Pass
		10	LCH	RB50#0	8.99	9.89	Pass
			MCH	RB50#0	8.99	9.90	Pass
			HCH	RB50#0	9.00	9.89	Pass



**Part II - Test Plots**

**4.1 For LTE**

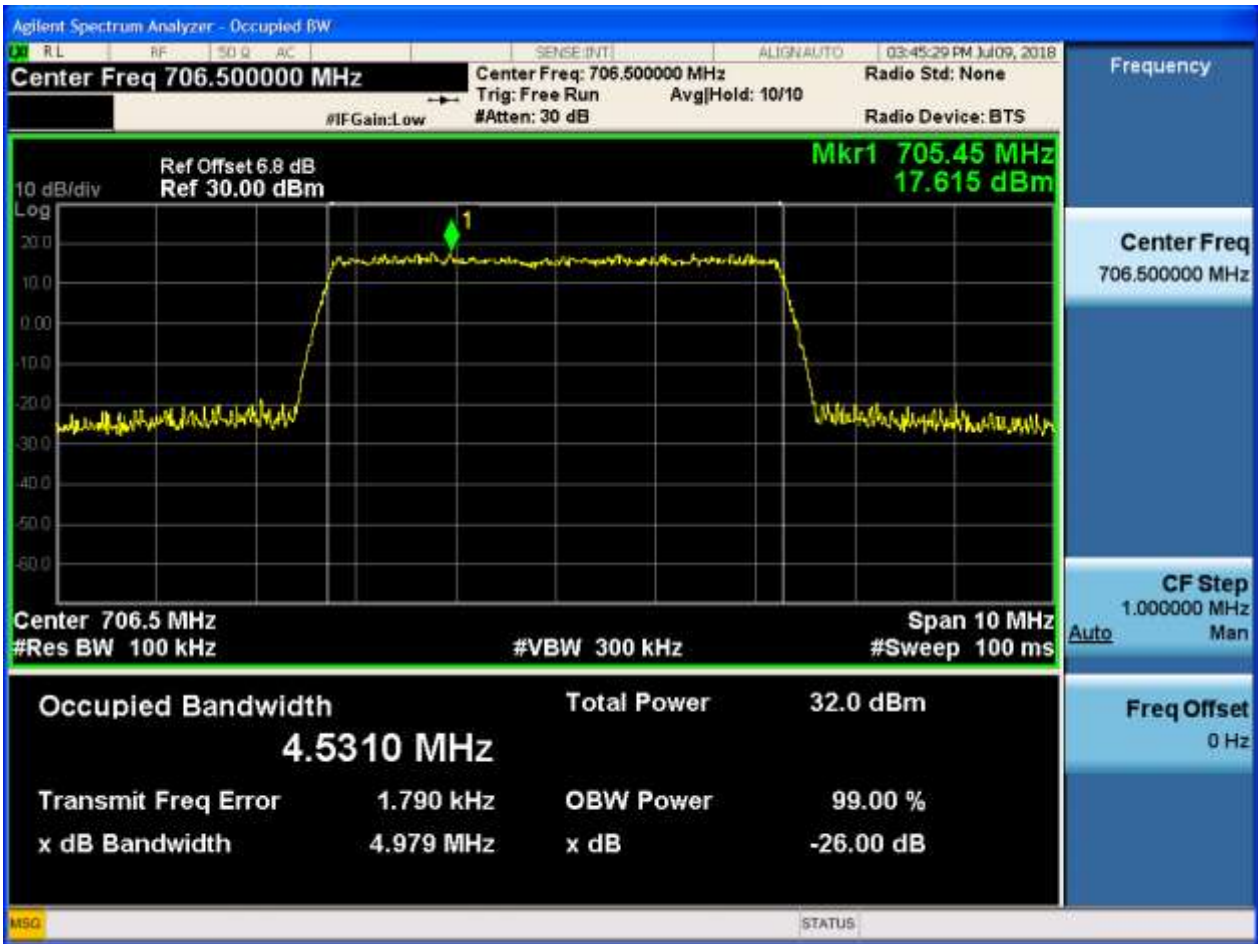
**4.1.1 Test Band = BAND17**

**4.1.1.1 Test Mode = LTE/TM1**

**4.1.1.1.1 Test Bandwidth = 5**

**4.1.1.1.1.1 Test Channel = LCH**

**4.1.1.1.1.1.1 Test RB = RB25#0**







4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0





4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0



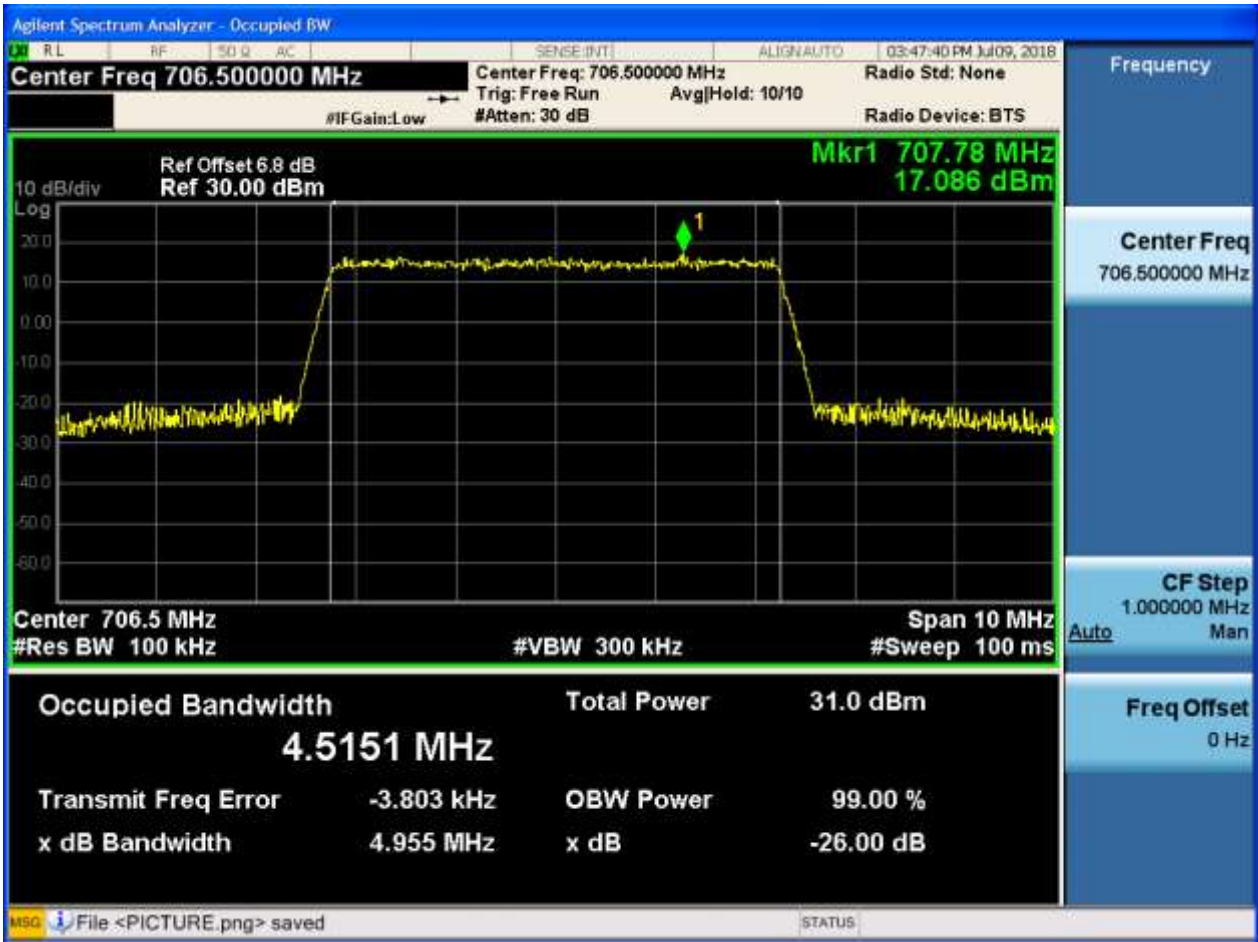


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0



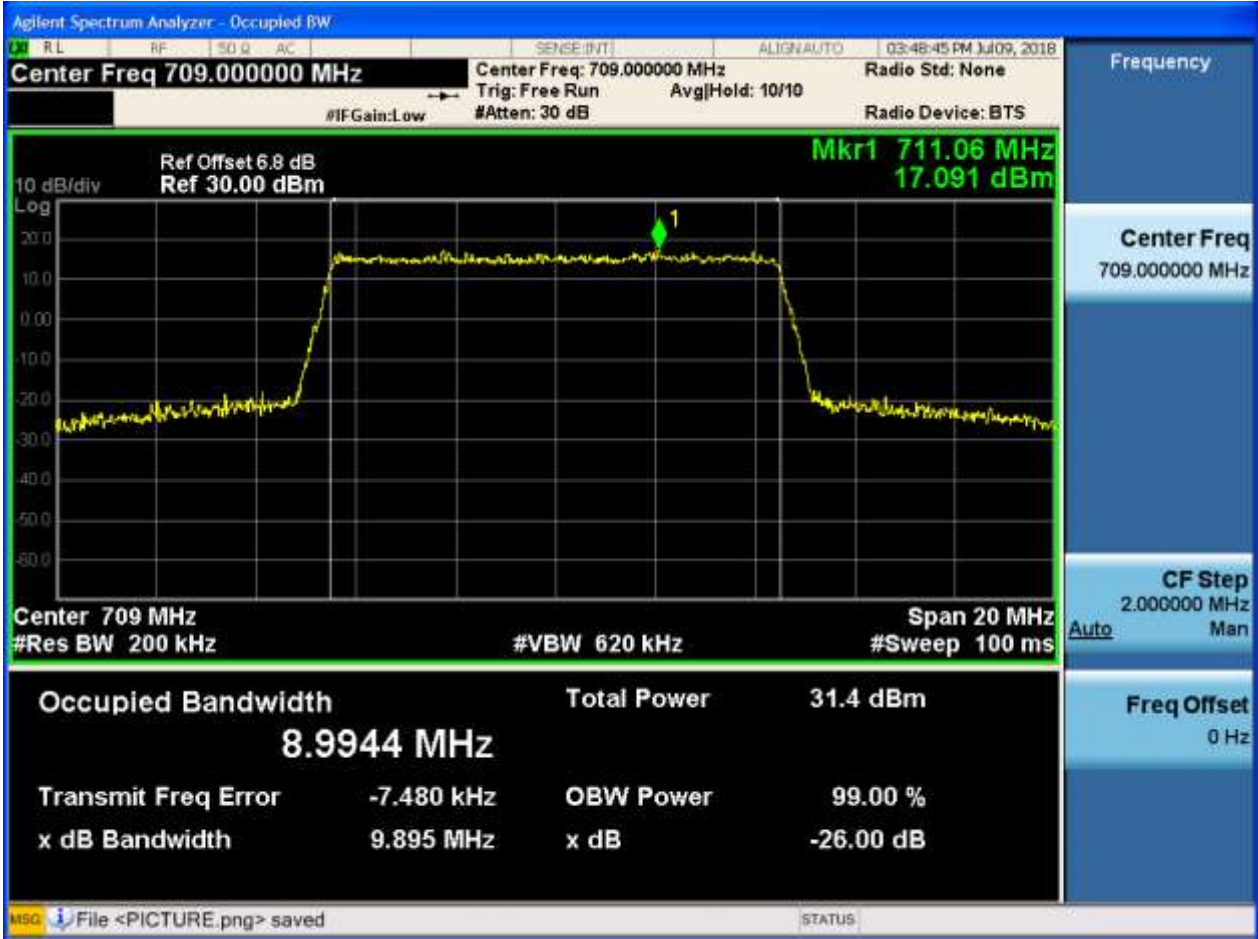




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

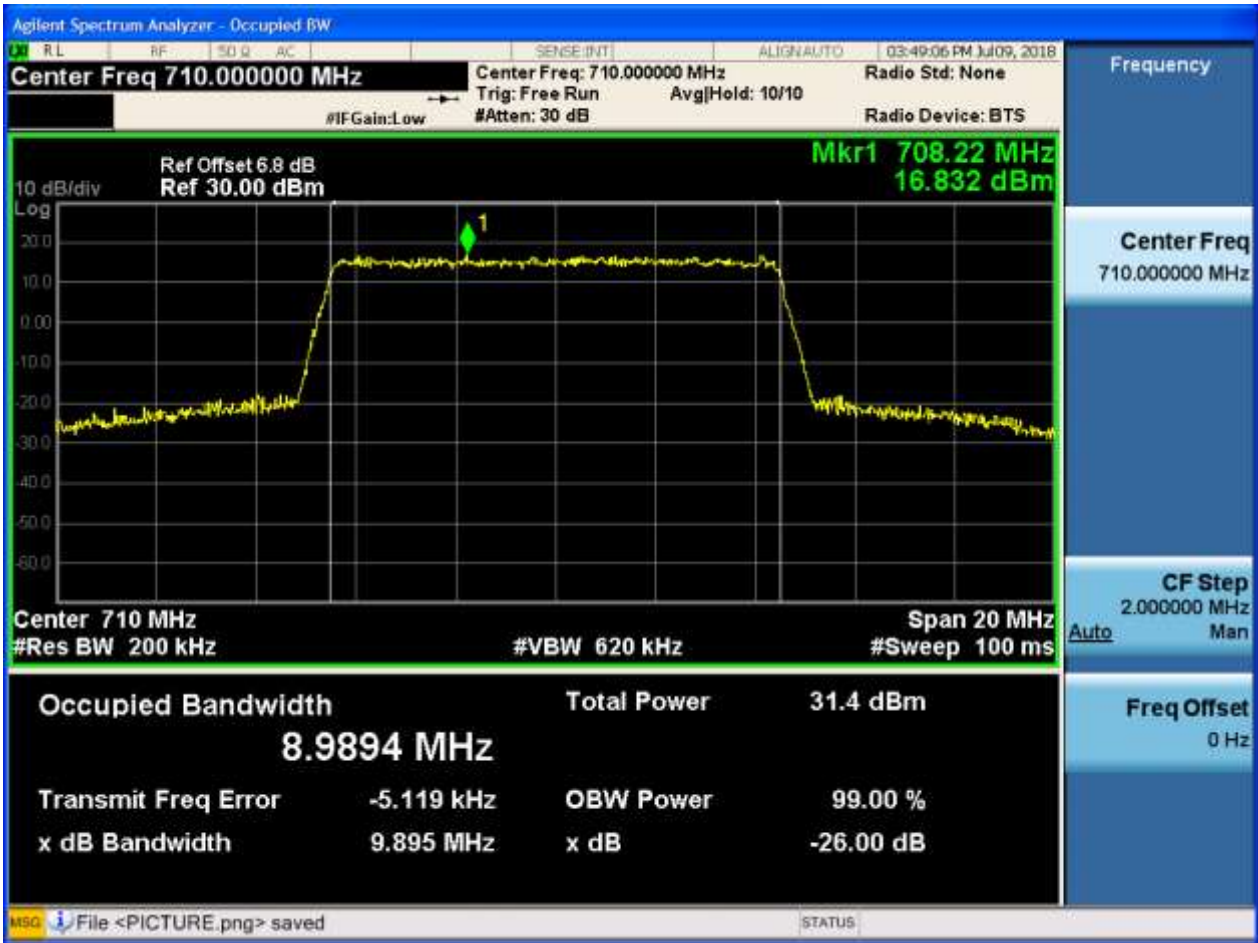
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0



## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

##### 5.1.1 Test Band = BAND17

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

##### 5.1.1.1.1 Test Bandwidth = 5

##### 5.1.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1.1 Test RB = RB1#0





5.1.1.1.1.2 Test RB = RB1#24





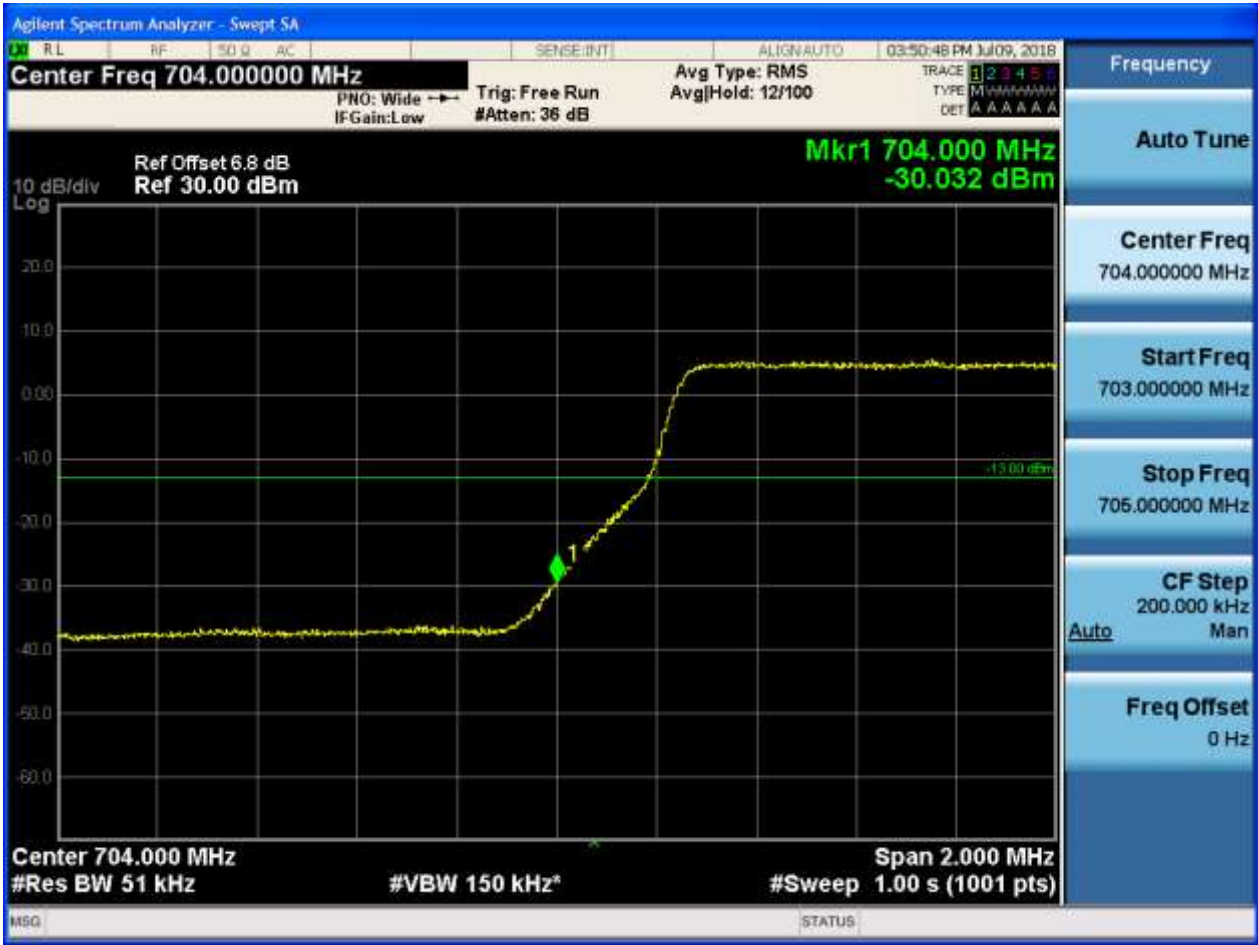
5.1.1.1.1.3 Test RB = RB12#6







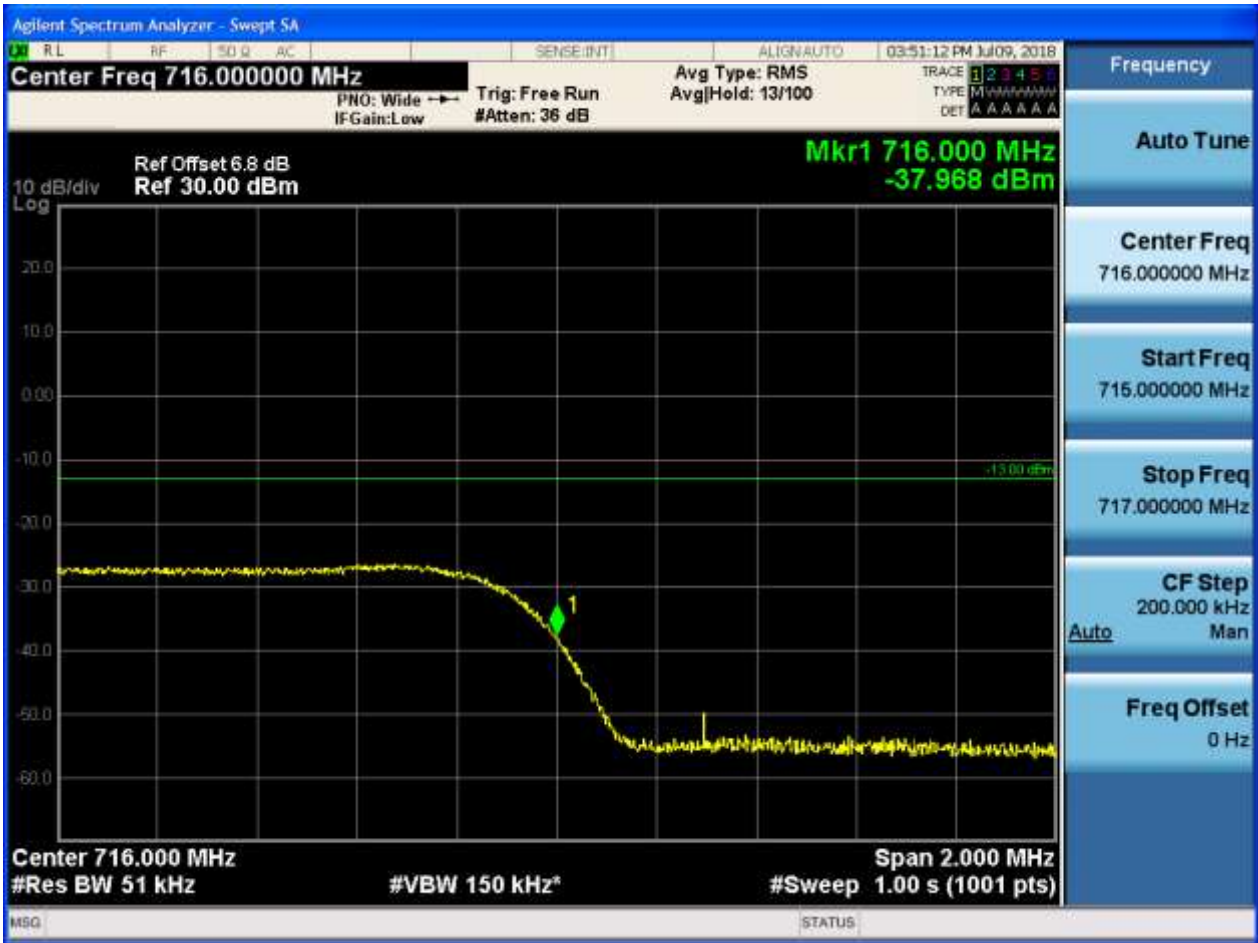
5.1.1.1.1.4 Test RB = RB25#0





5.1.1.1.1.2 Test Channel = HCH

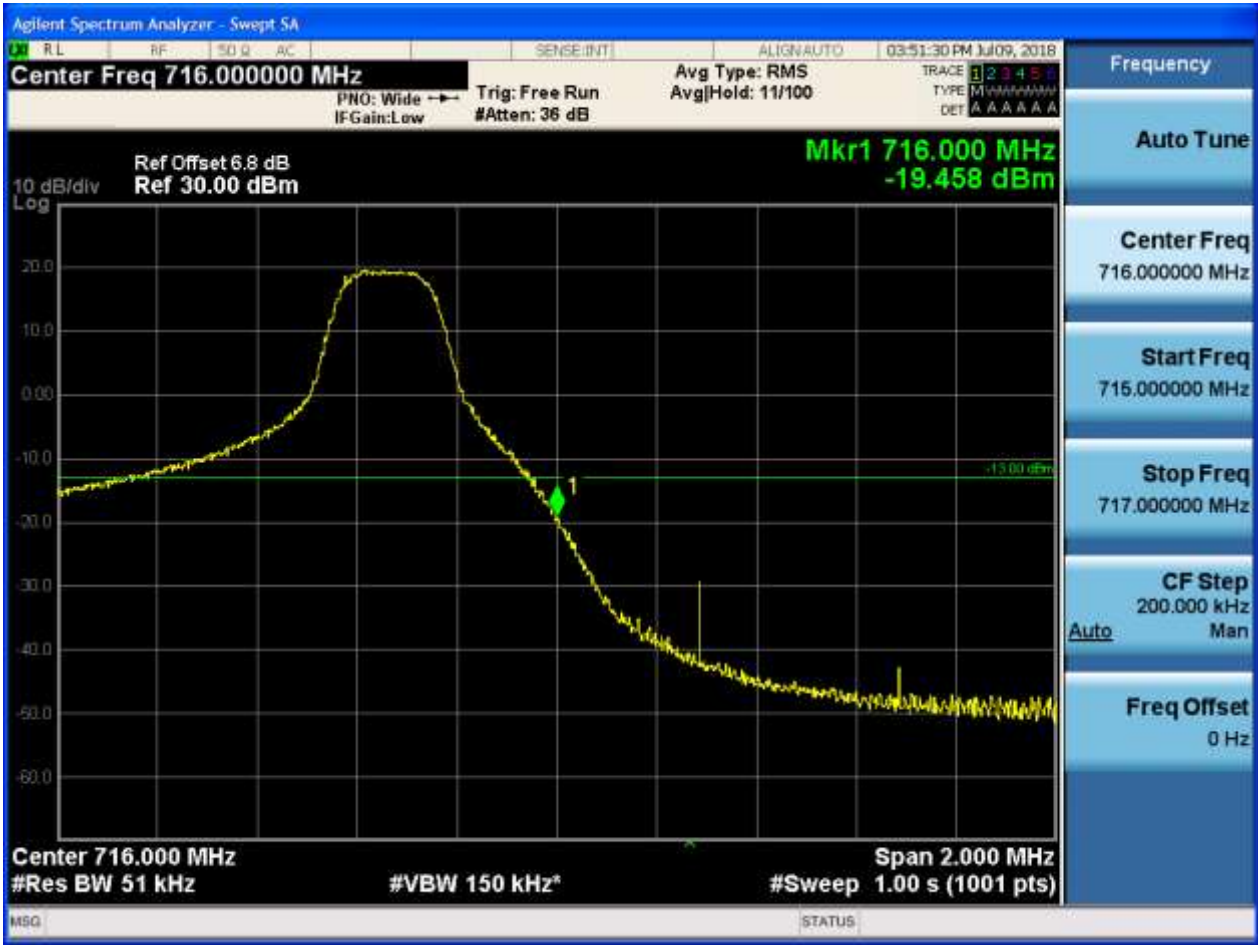
5.1.1.1.1.2.1 Test RB = RB1#0







5.1.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.1.2.4 Test RB = RB25#0





5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49





5.1.1.1.2.1.3 Test RB = RB25#13







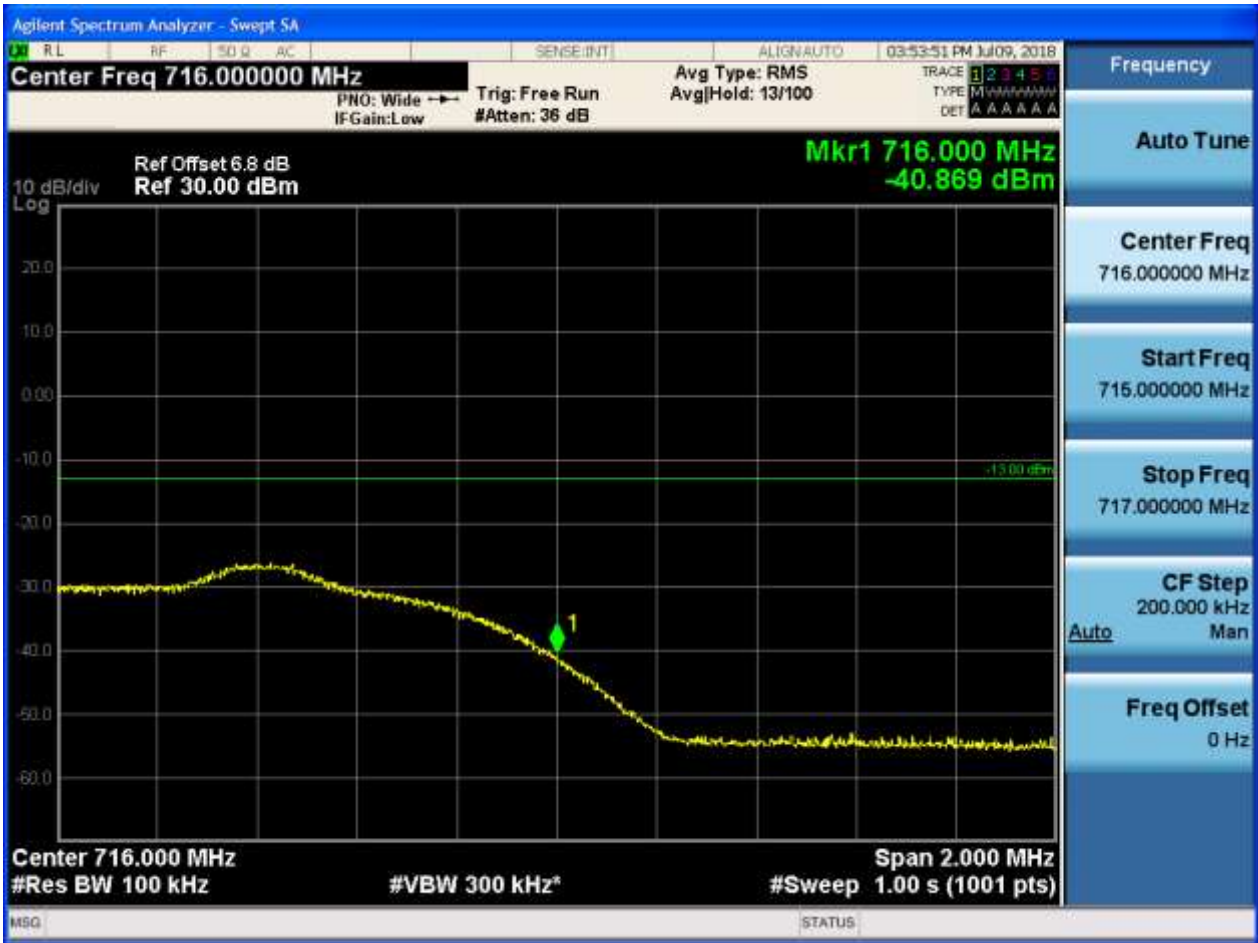
5.1.1.1.2.1.4 Test RB = RB50#0





5.1.1.1.2.2 Test Channel = HCH

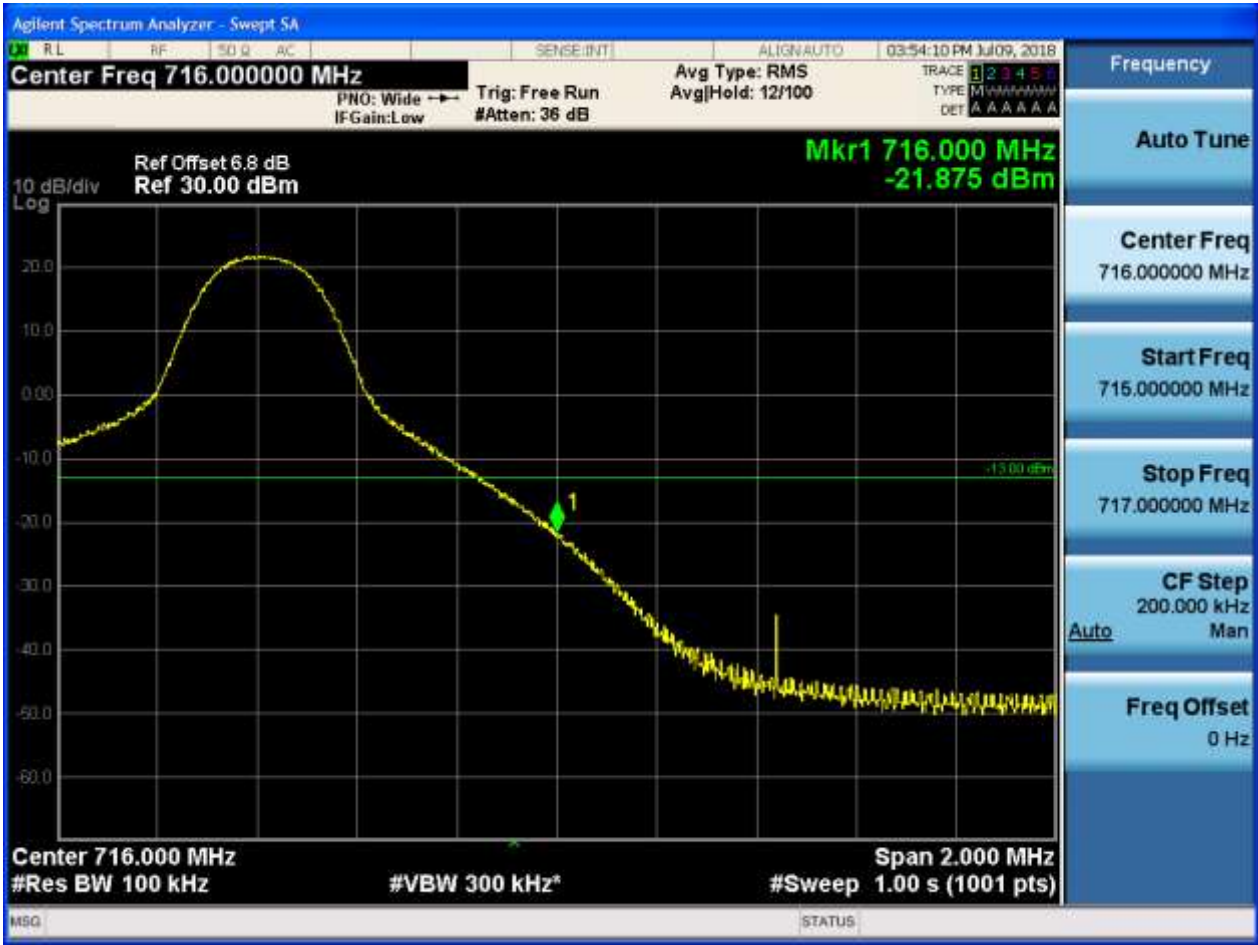
5.1.1.1.2.2.1 Test RB = RB1#0







5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0



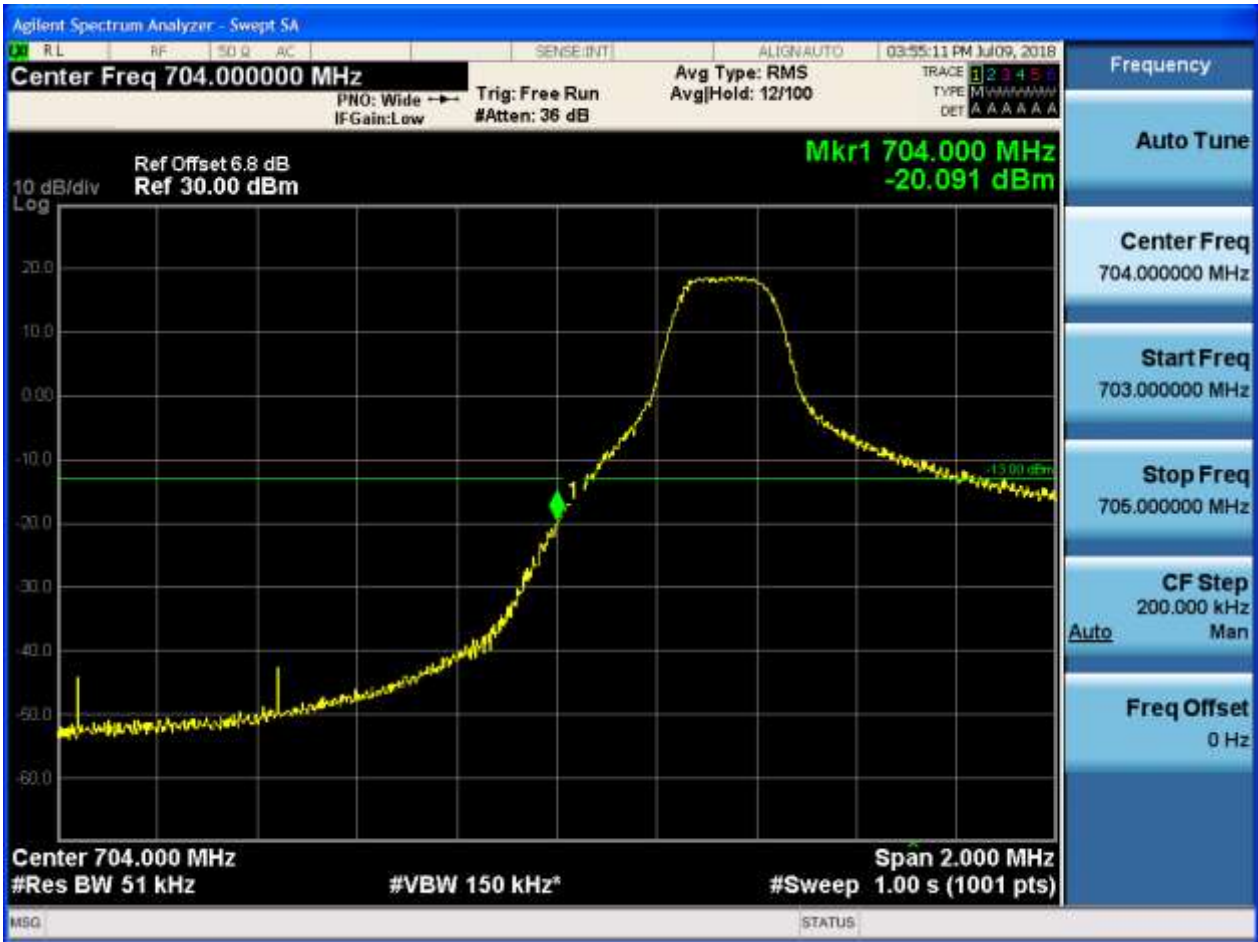


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6







5.1.1.2.1.1.4 Test RB = RB25#0

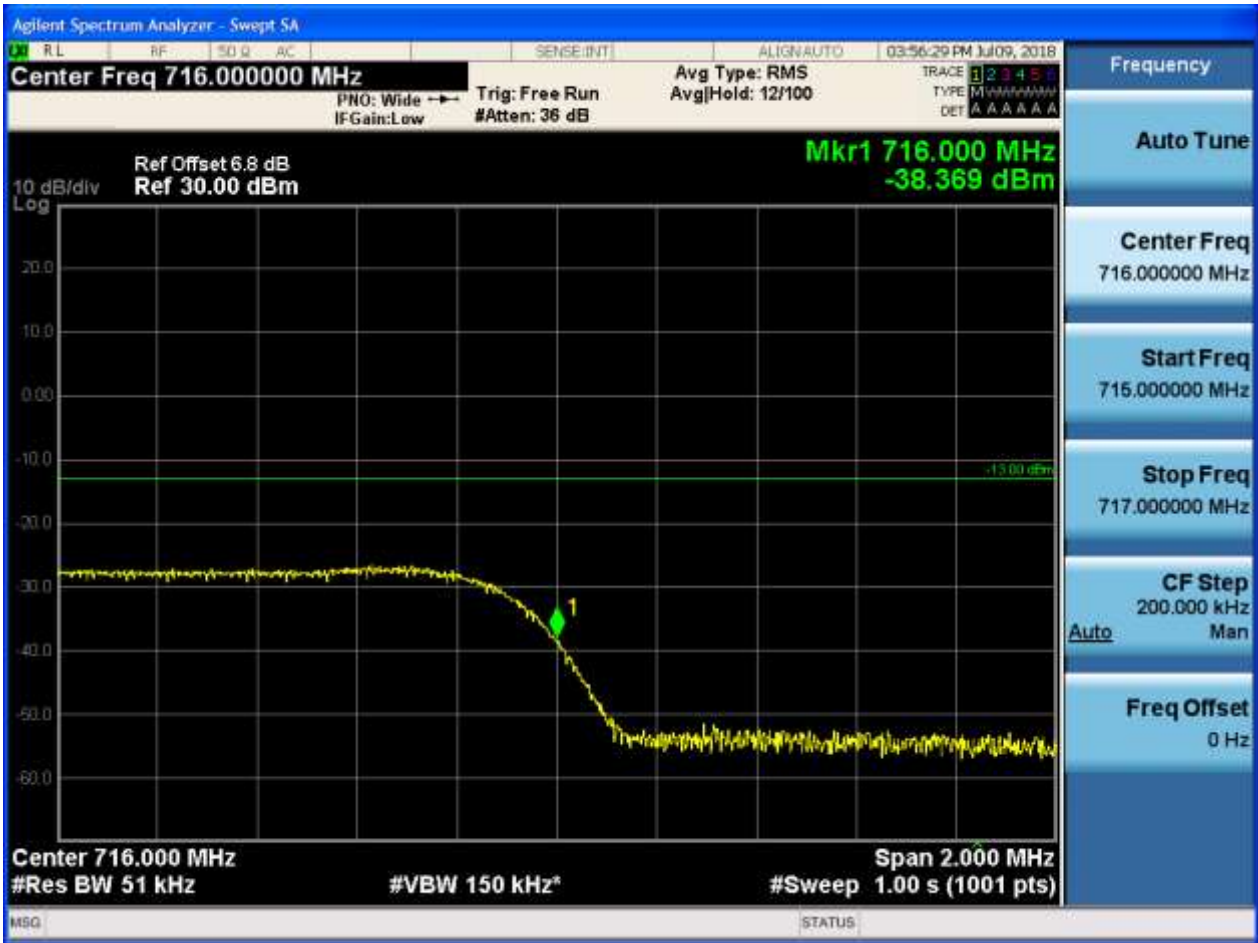






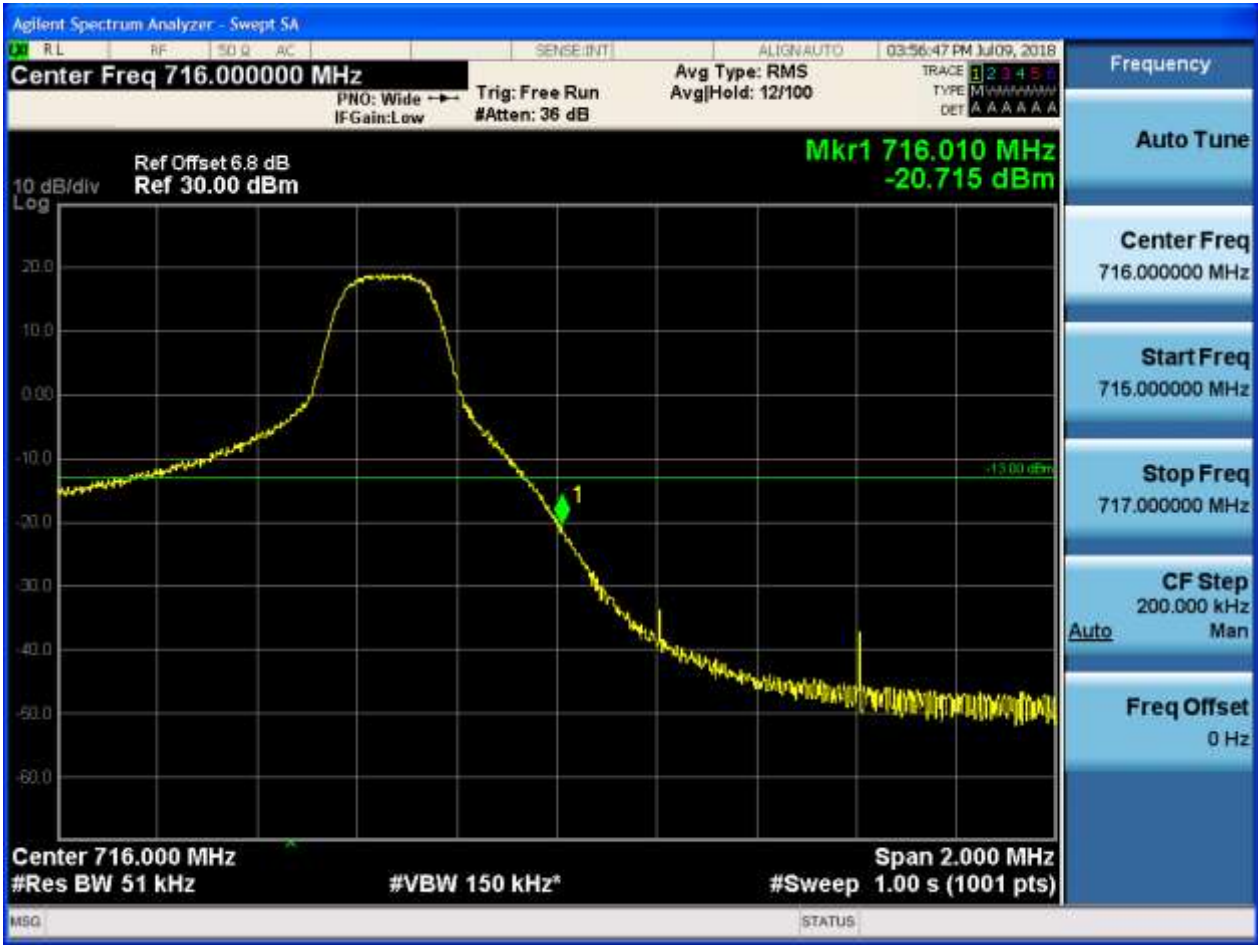
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0





5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49







5.1.1.2.2.1.3 Test RB = RB25#13







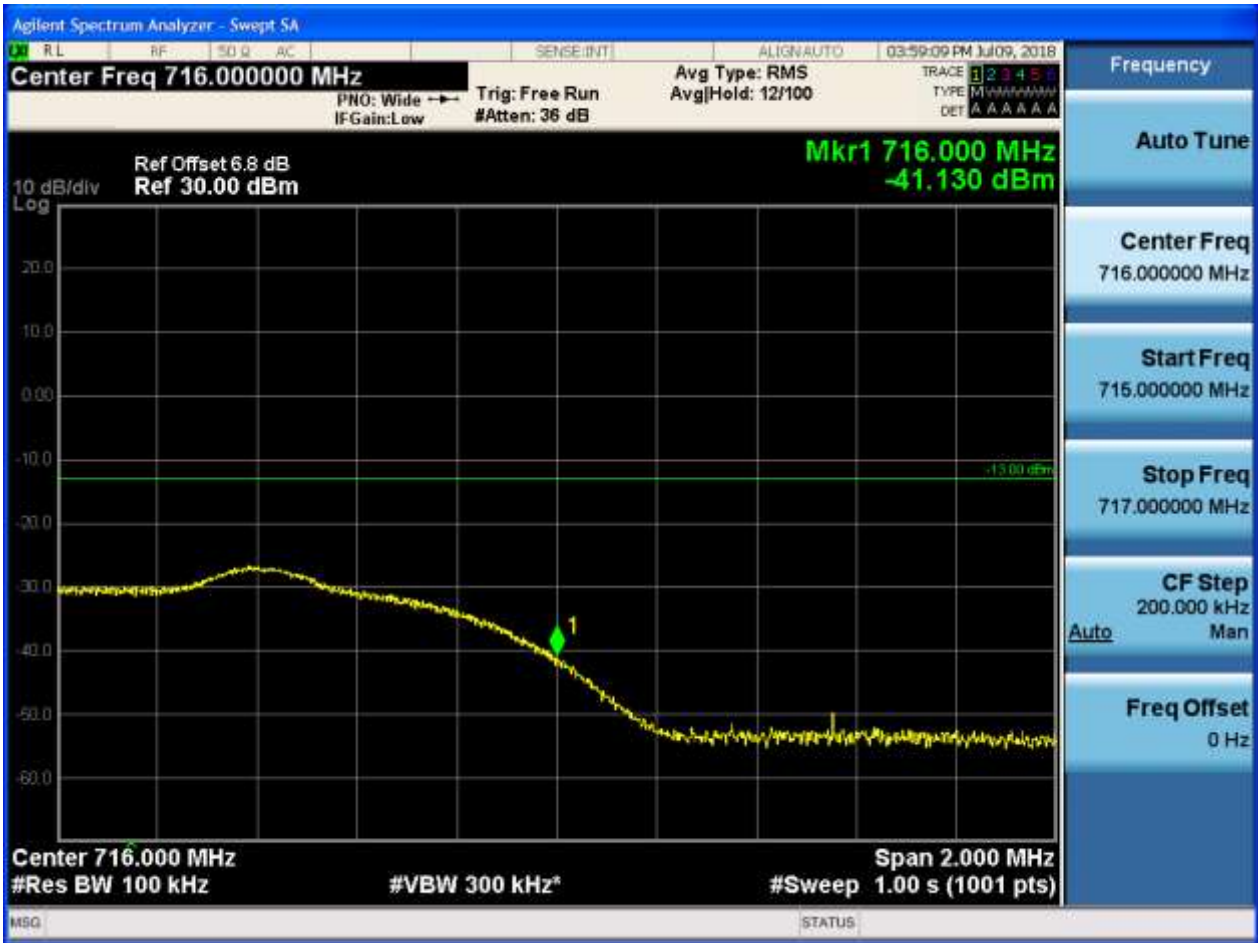
5.1.1.2.2.1.4 Test RB = RB50#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



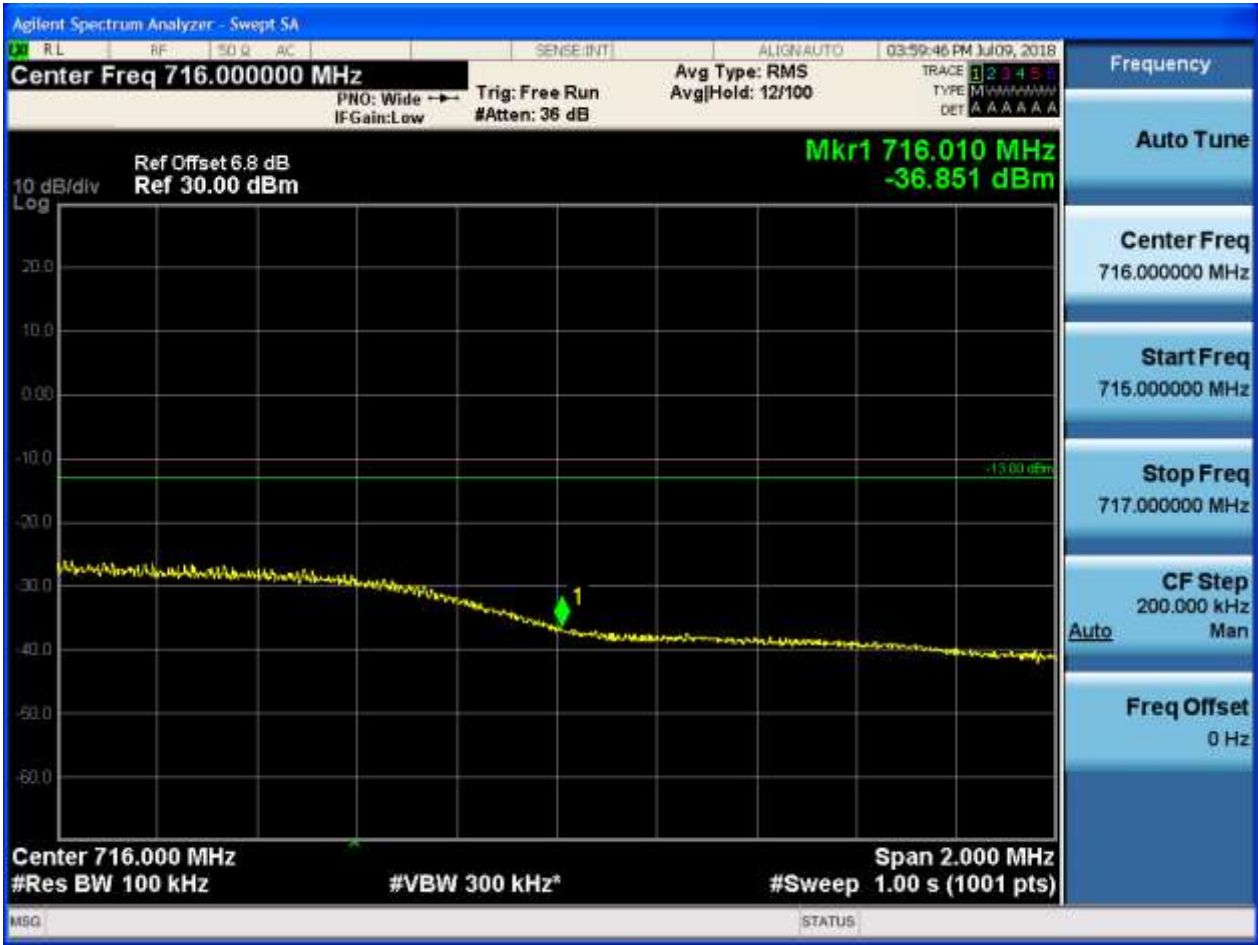


5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.2.3 Test RB = RB25#13





5.1.1.2.2.2.4 Test RB = RB50#0





## 6Appendix\_F: 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 = BAND17

##### 6.1.1.1 Test Mode = LTE/TM1

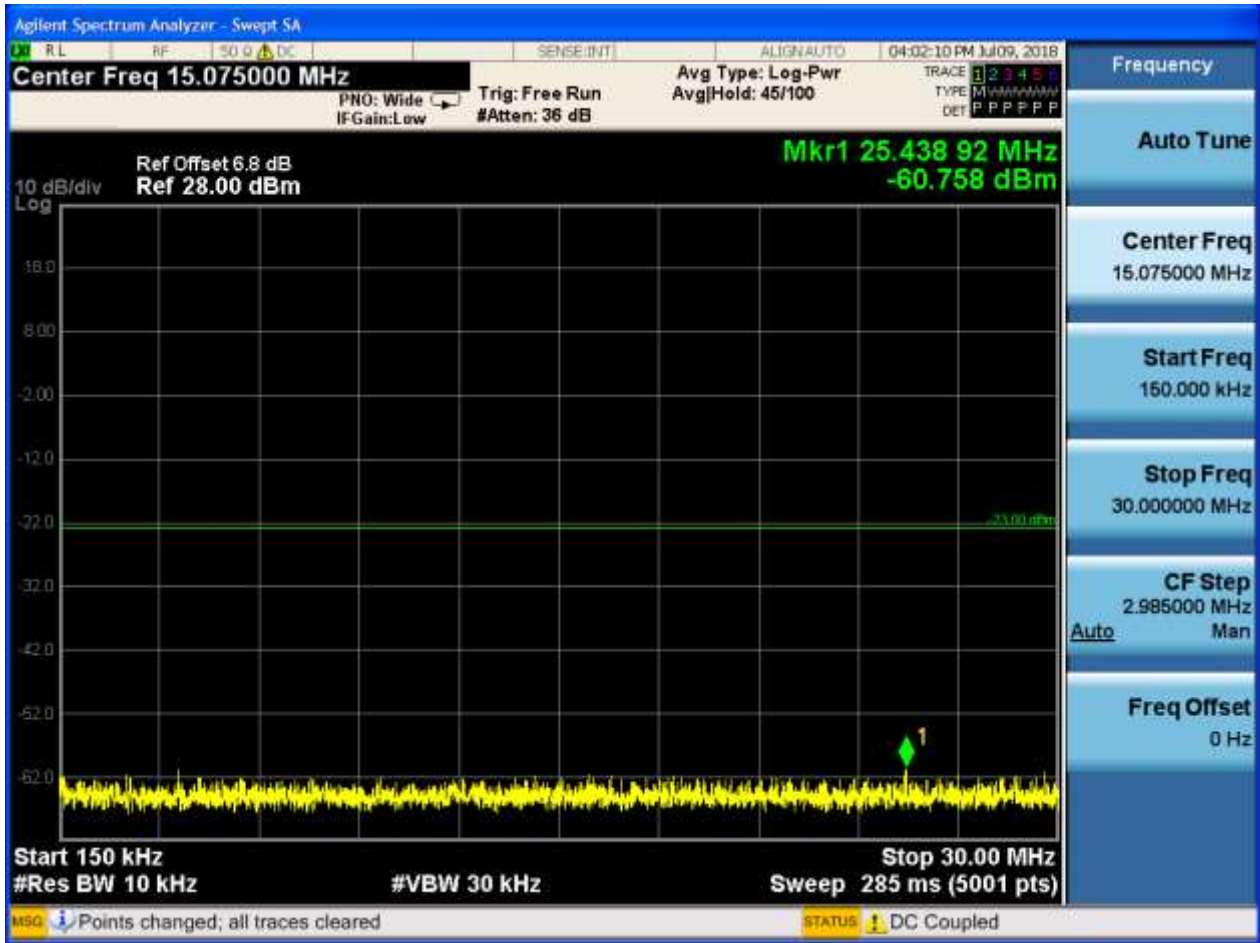
##### 6.1.1.1.1 Test Bandwidth = 5

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0





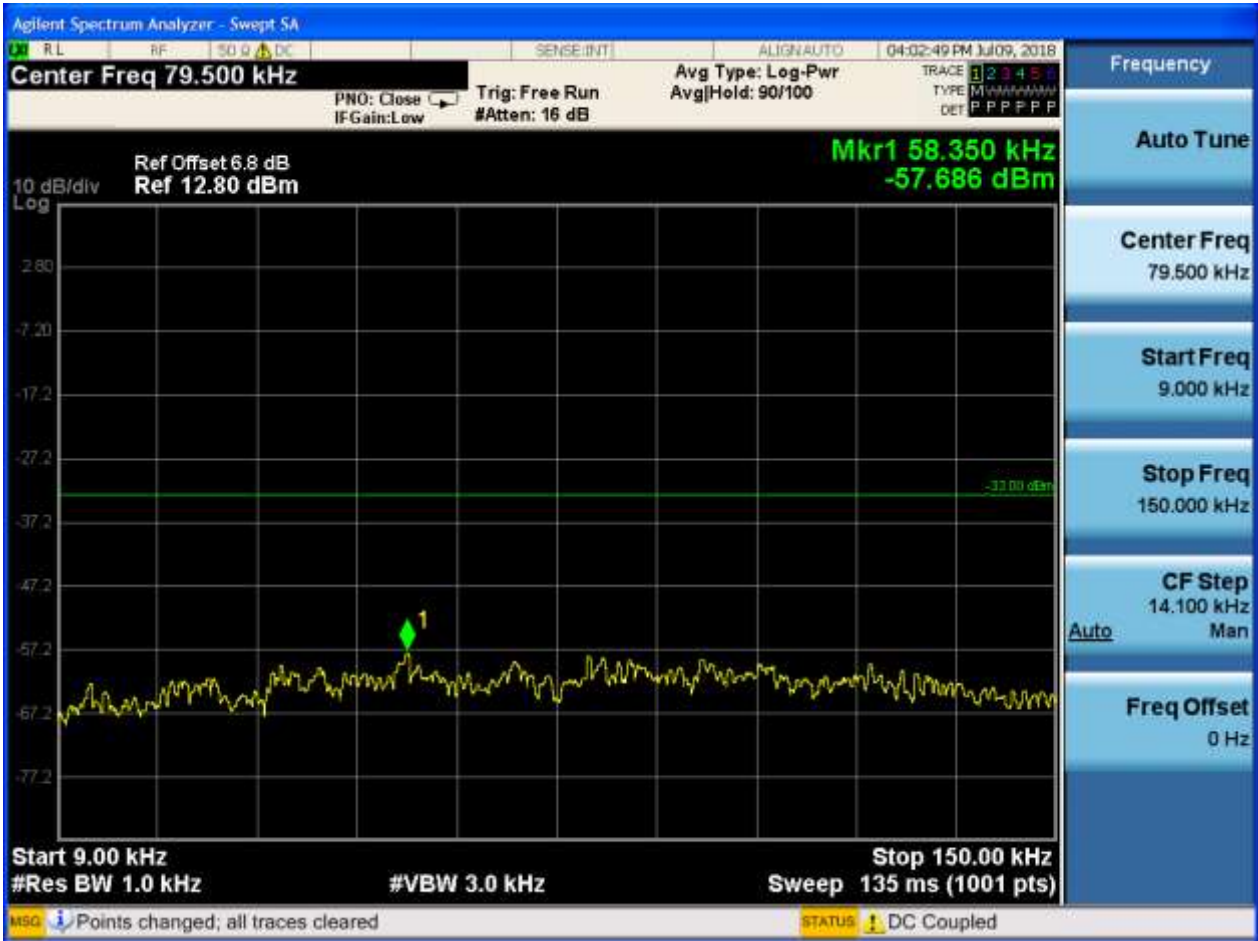


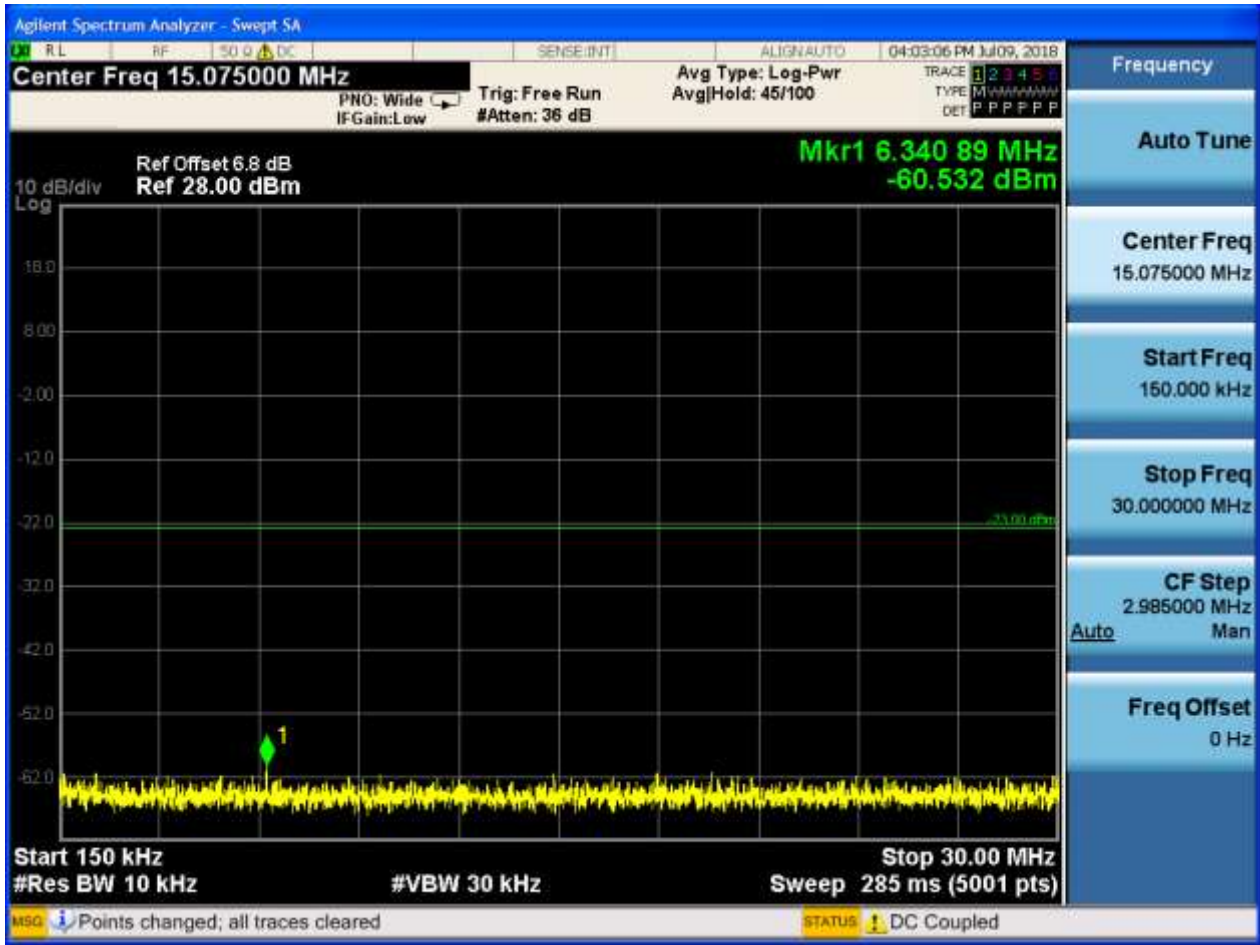


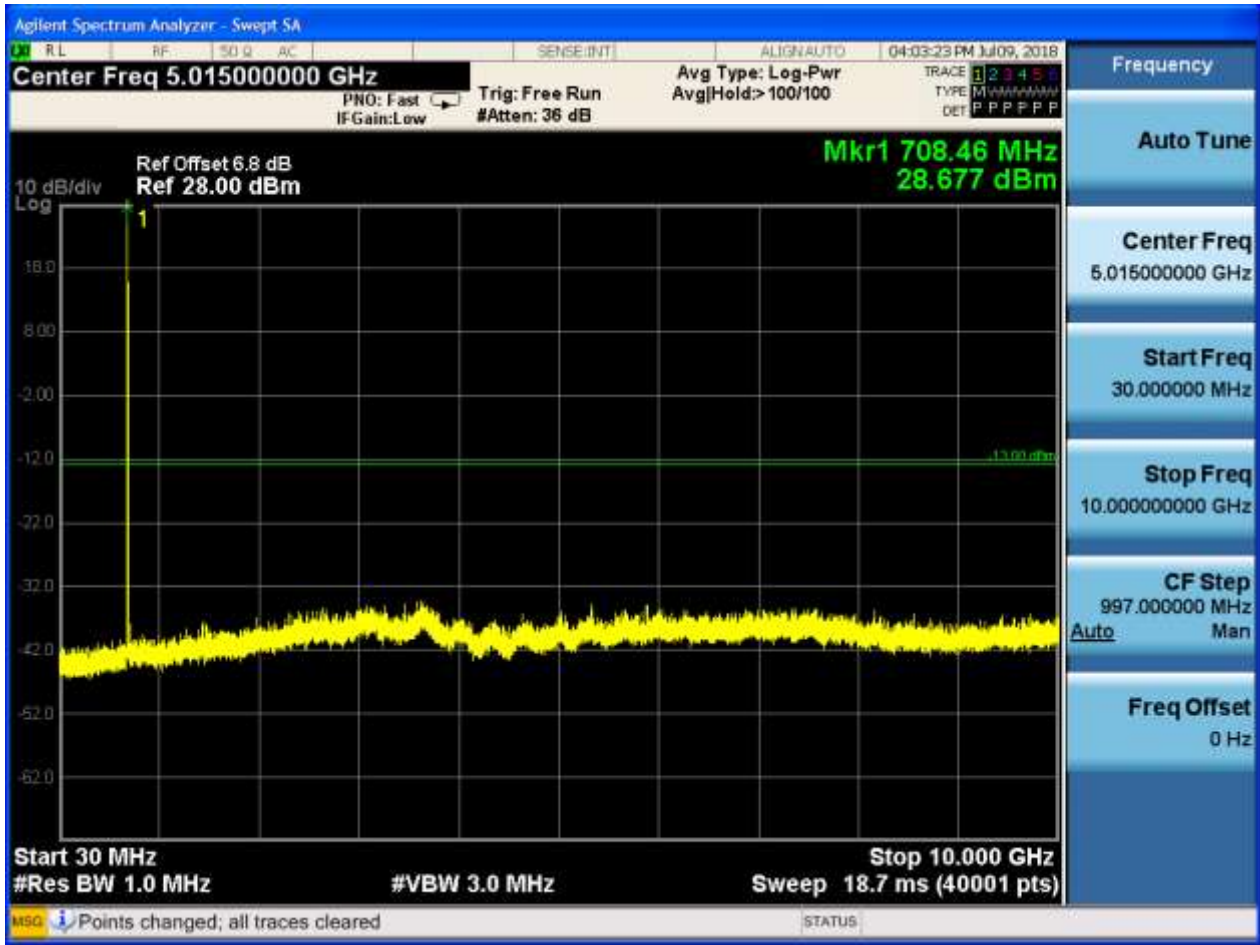


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0







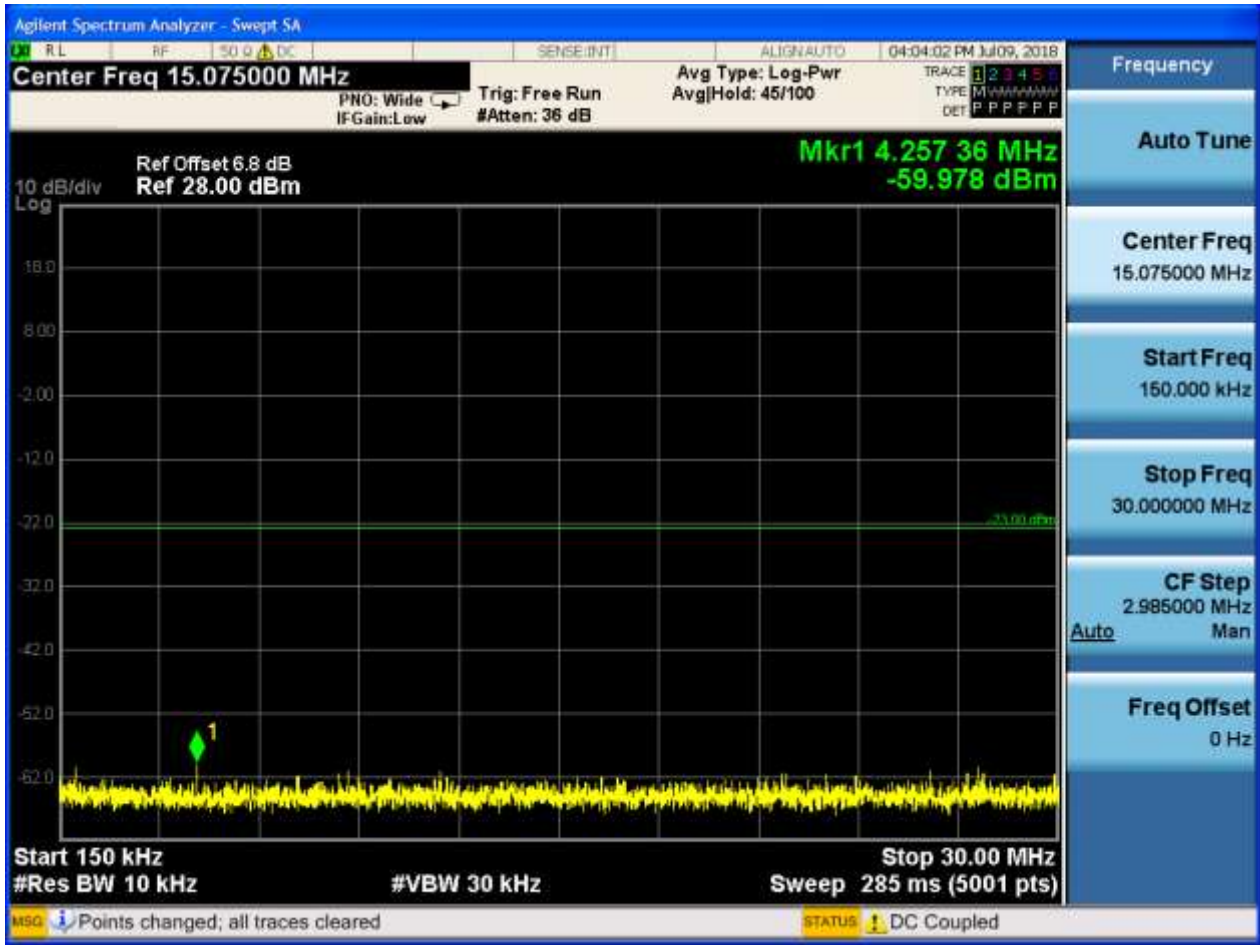


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0









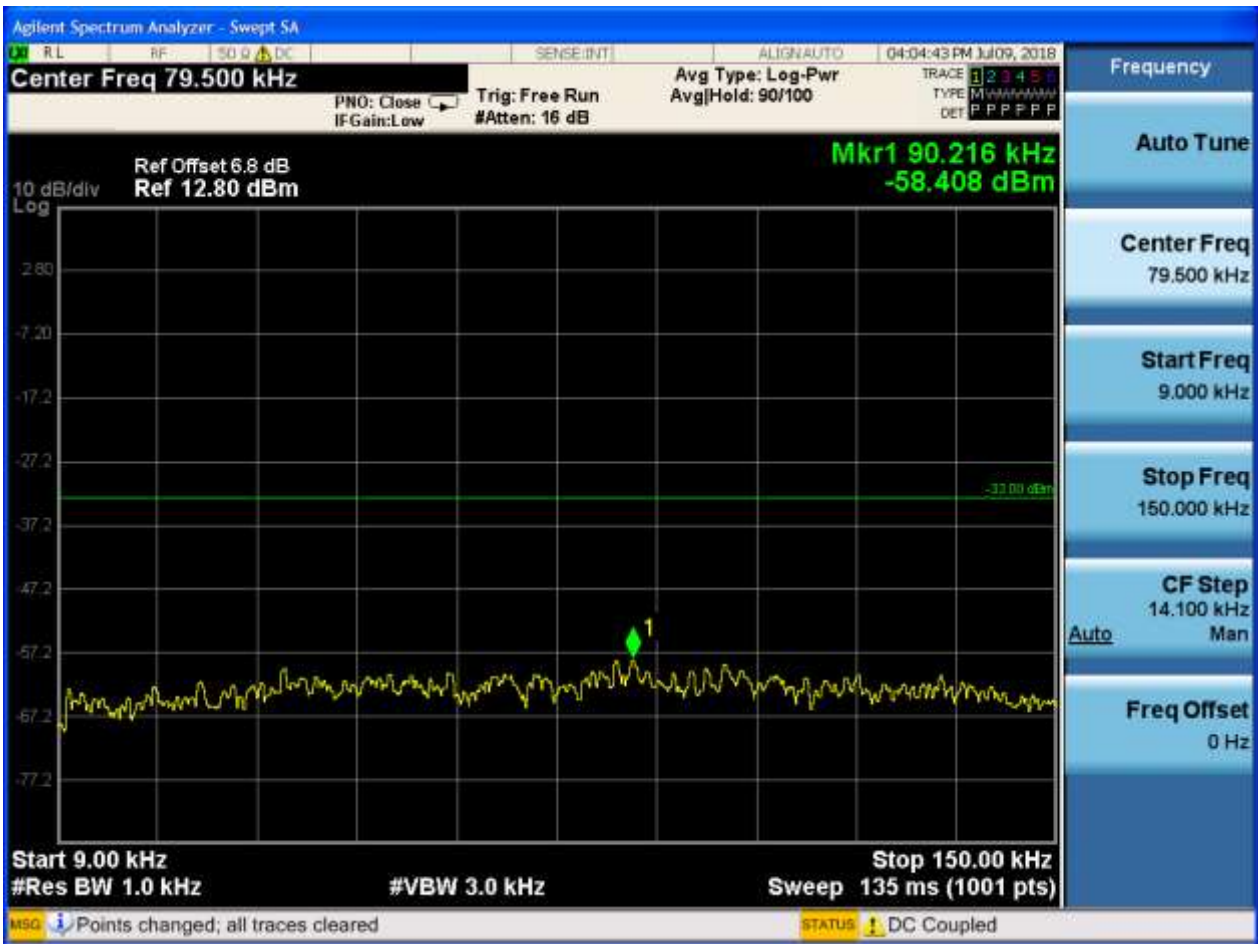


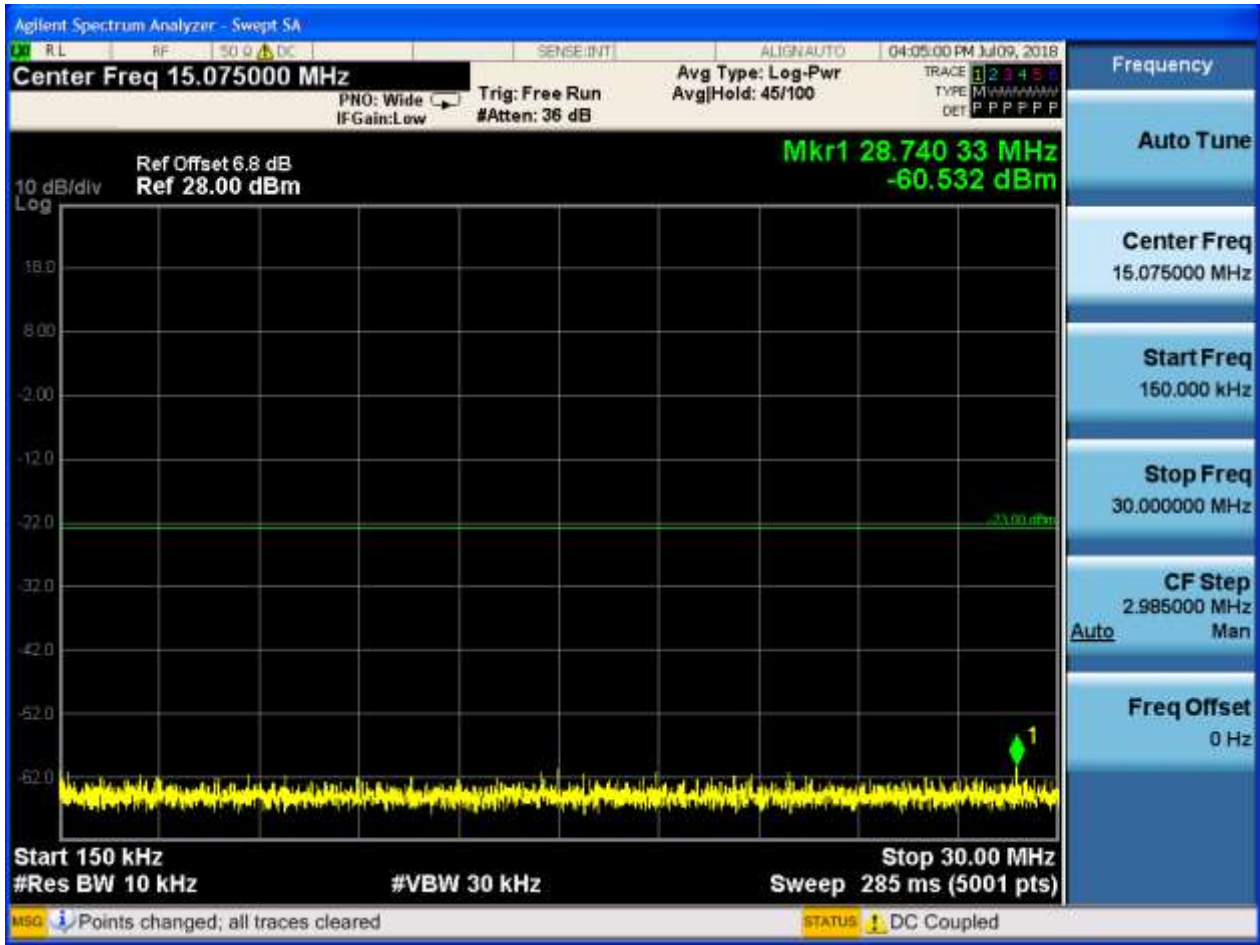


6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



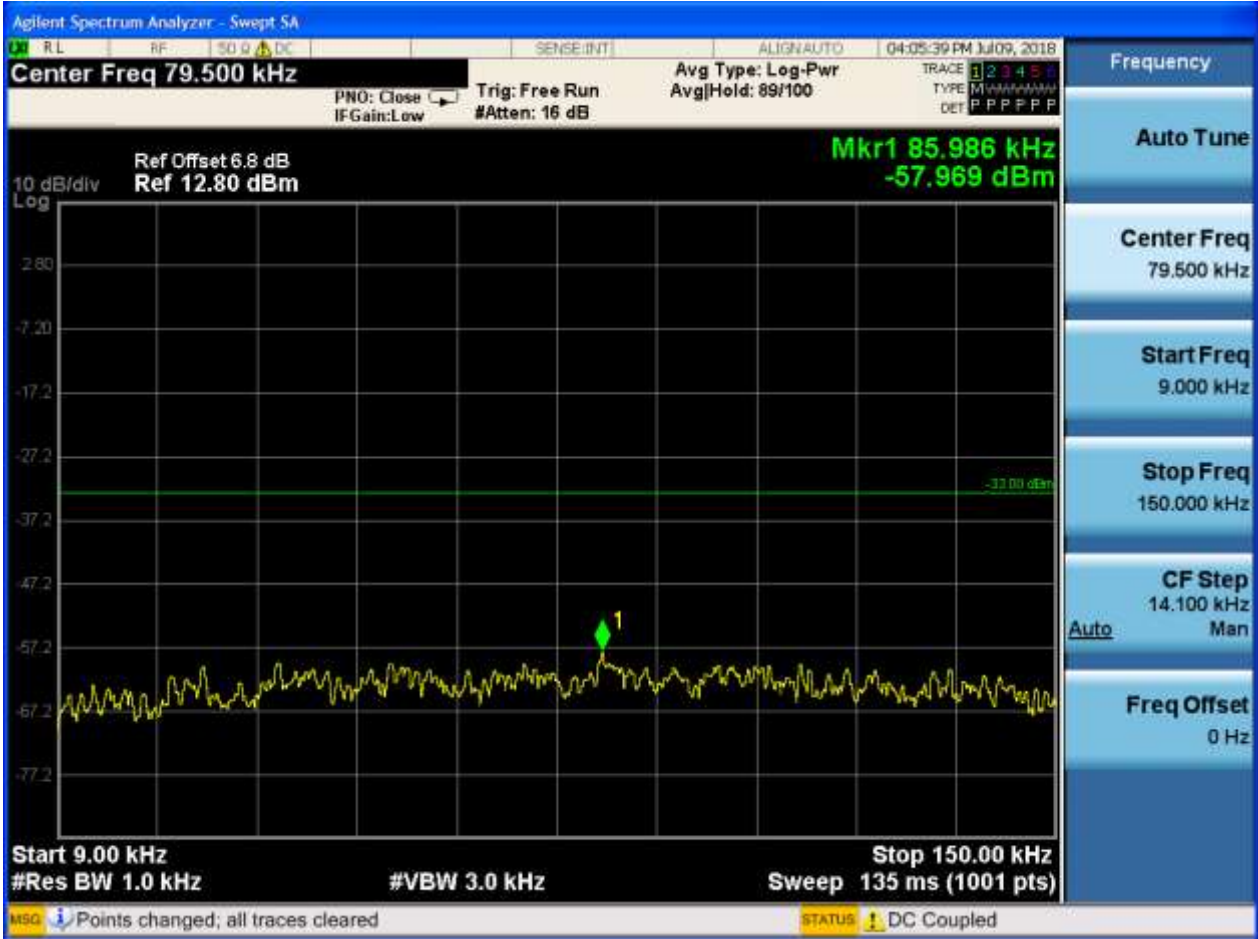


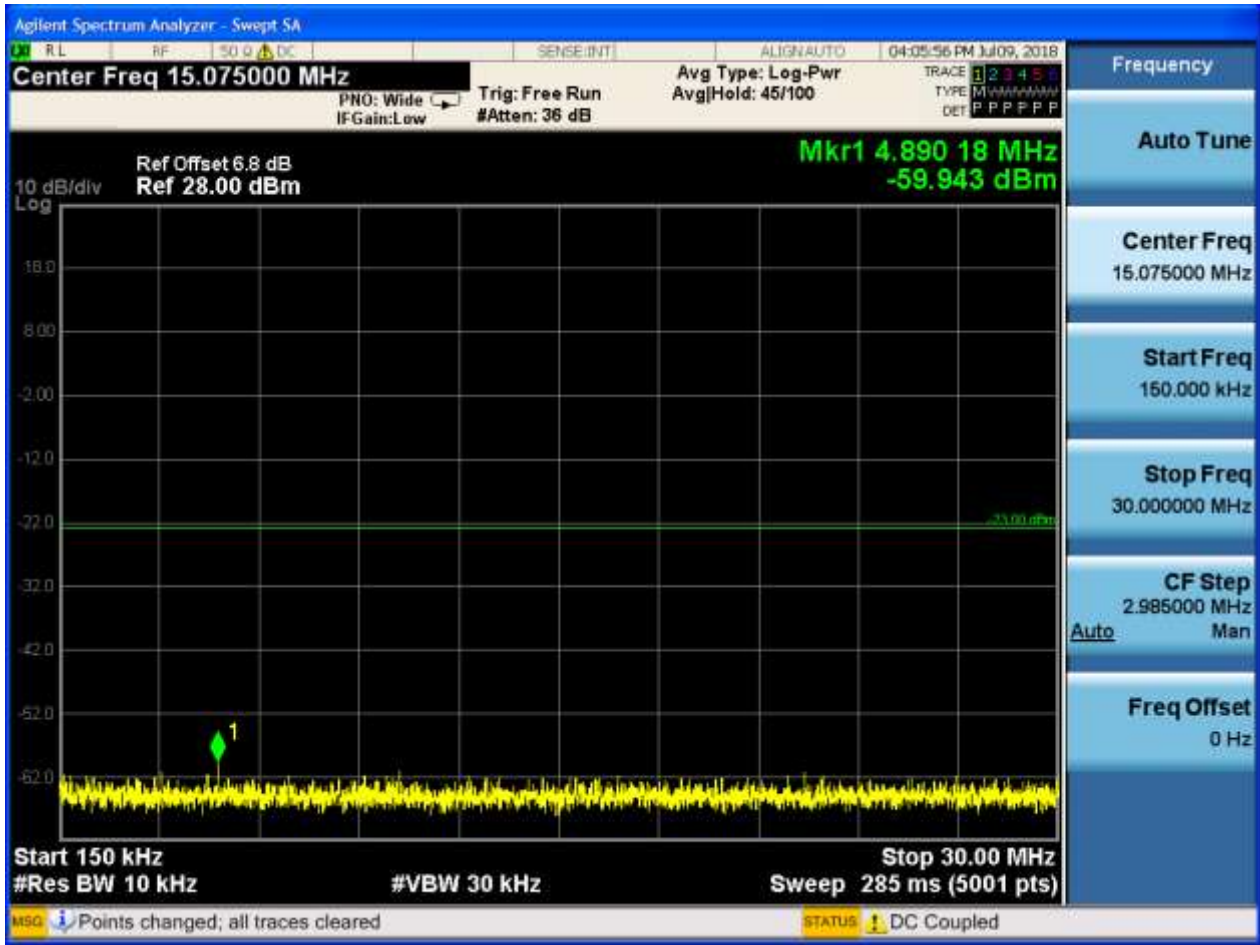




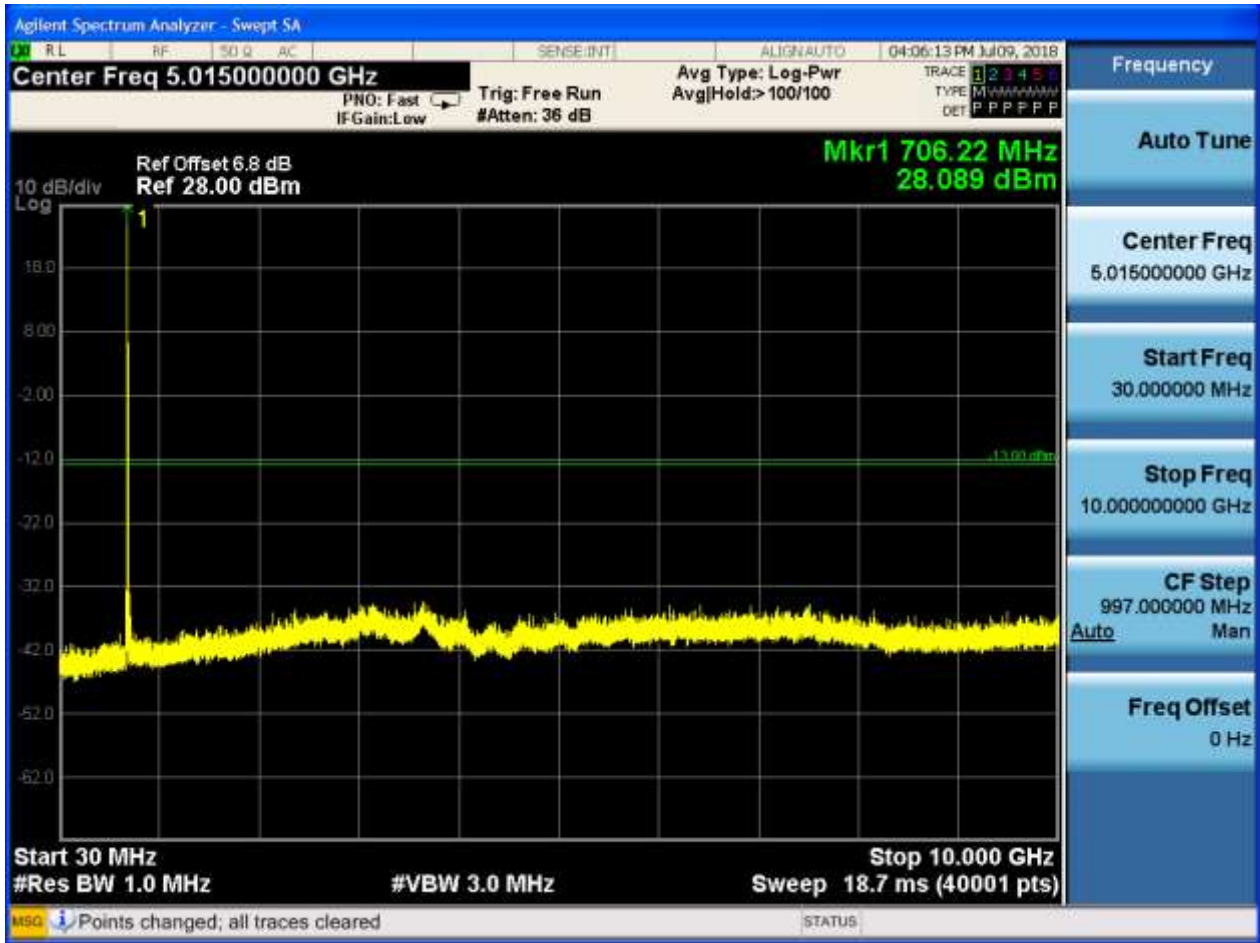
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0







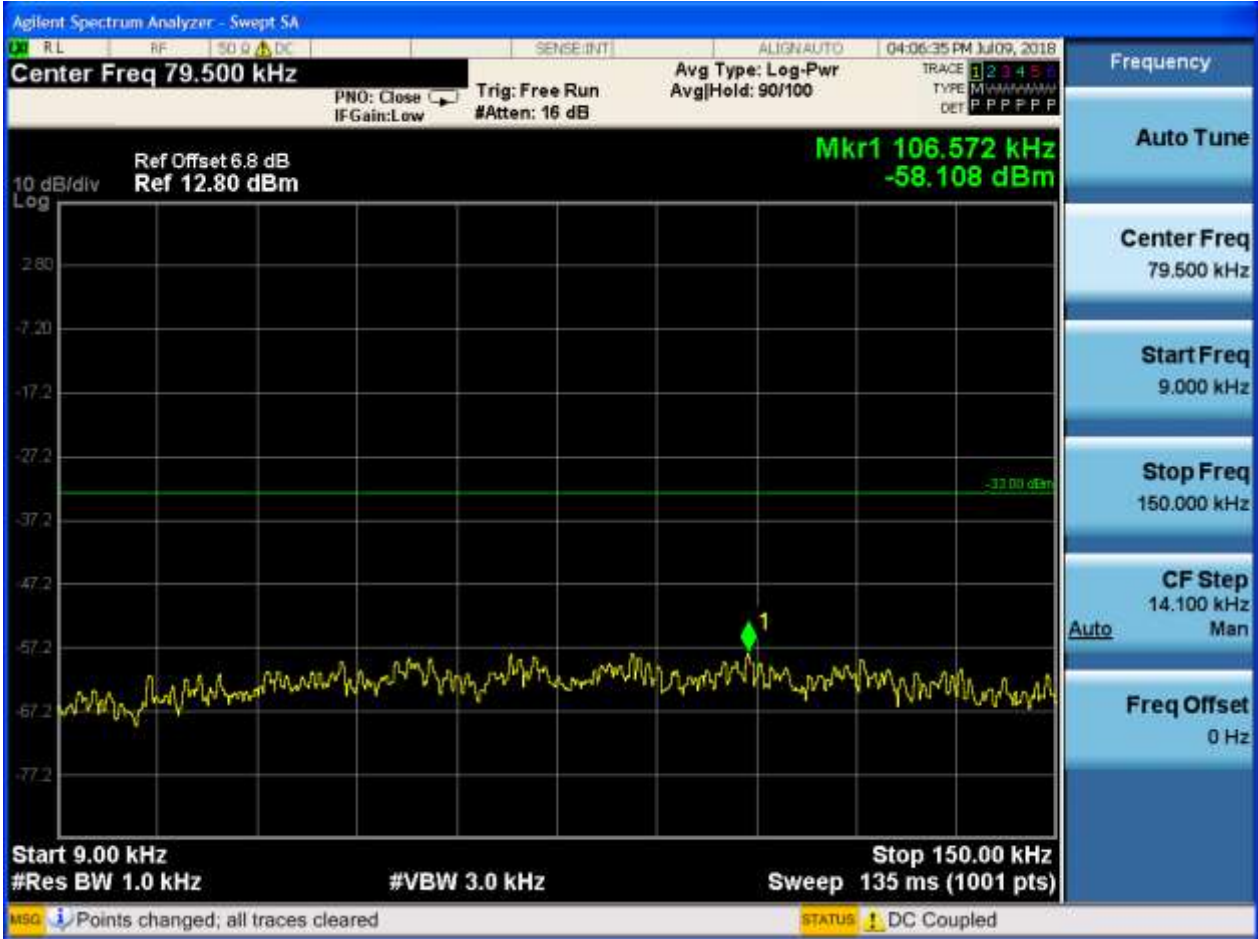


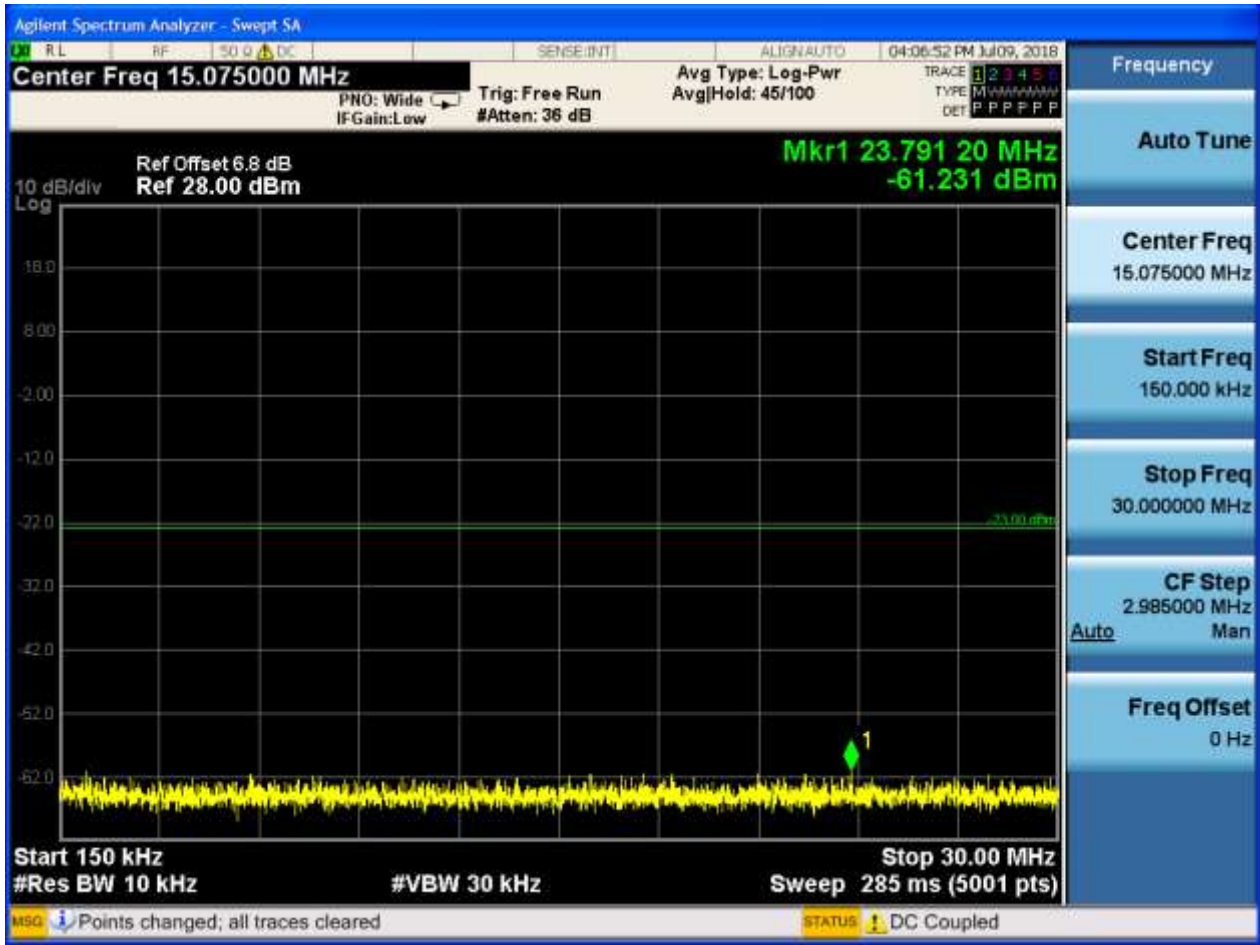


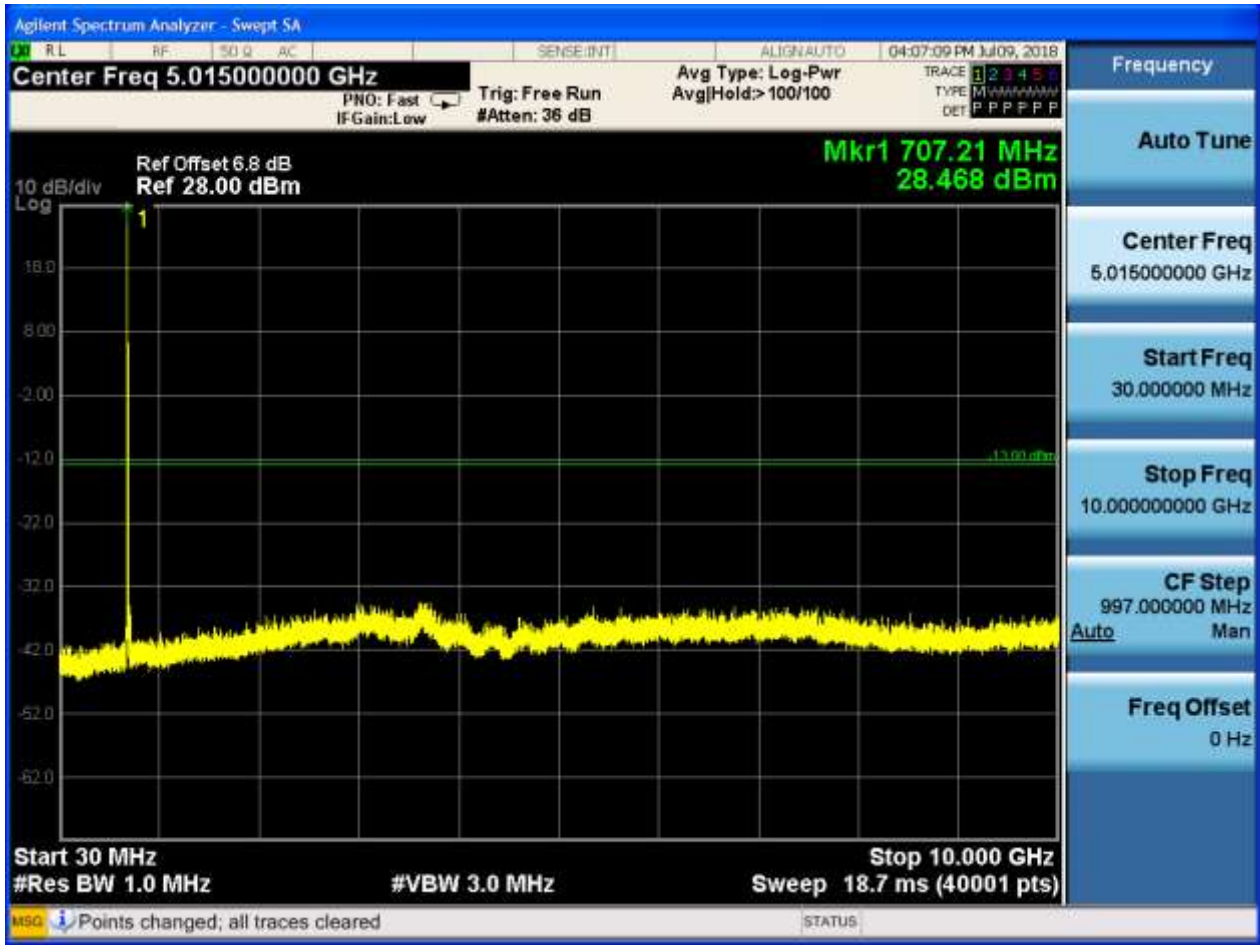


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







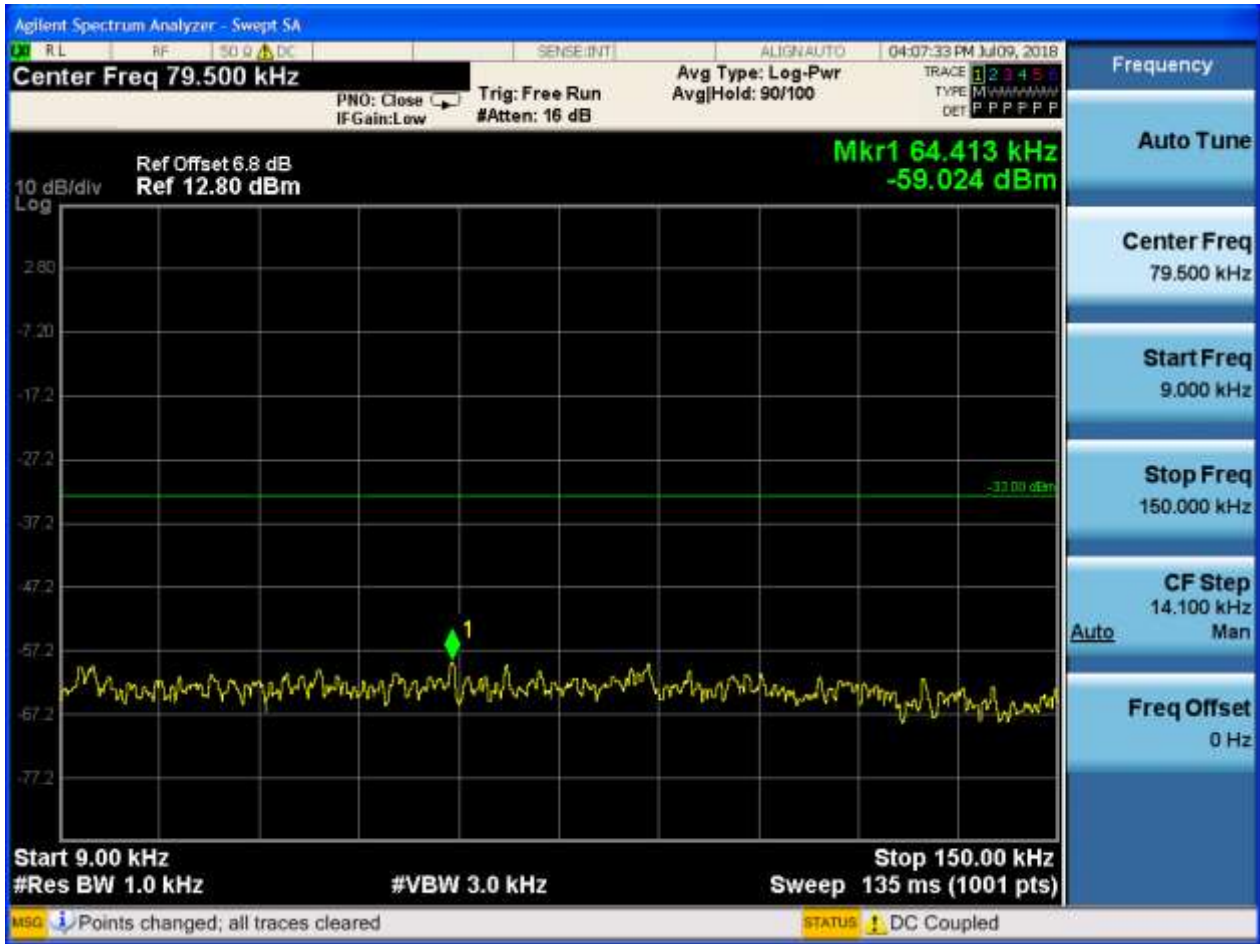


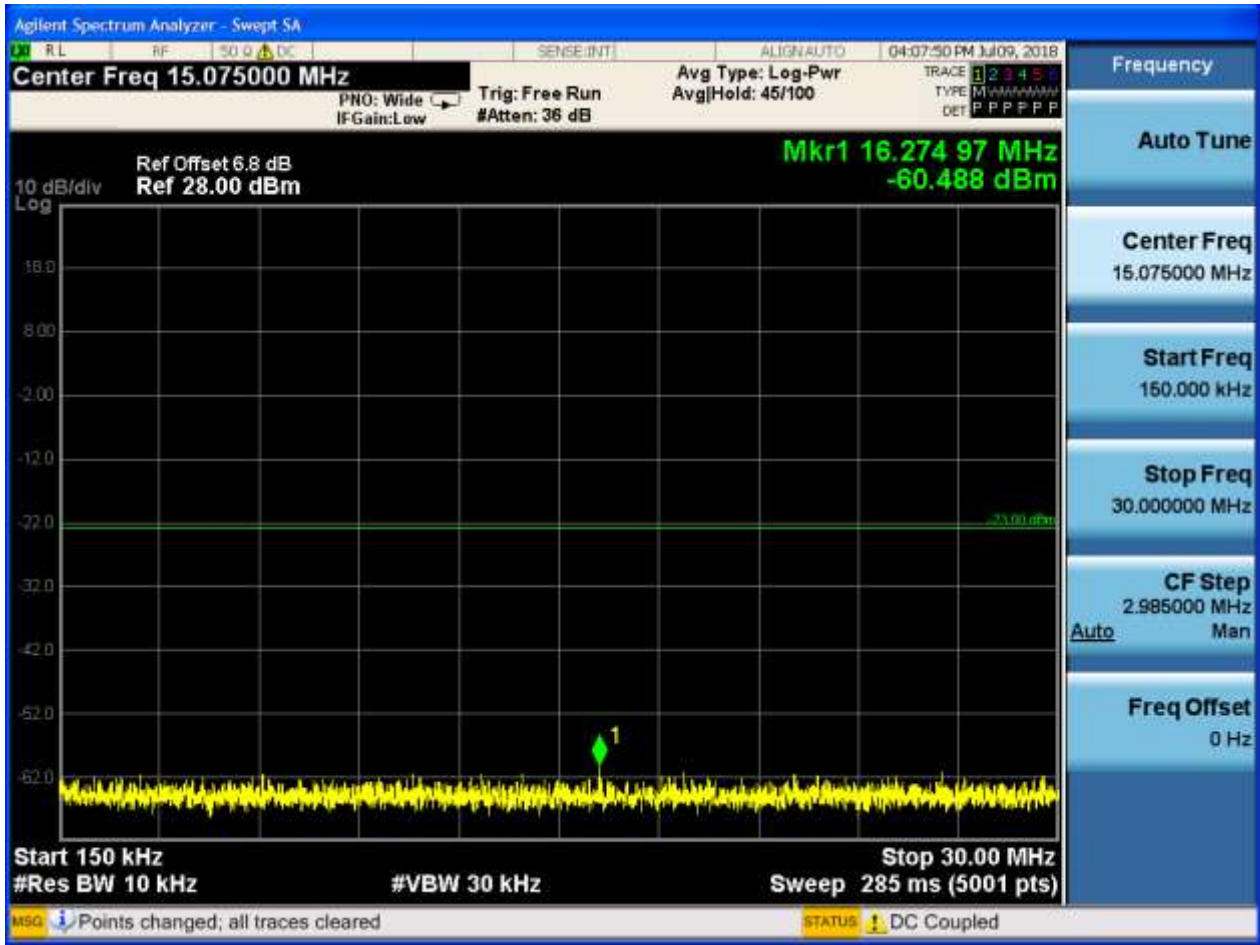
6.1.1.2 Test Mode = LTE/TM2

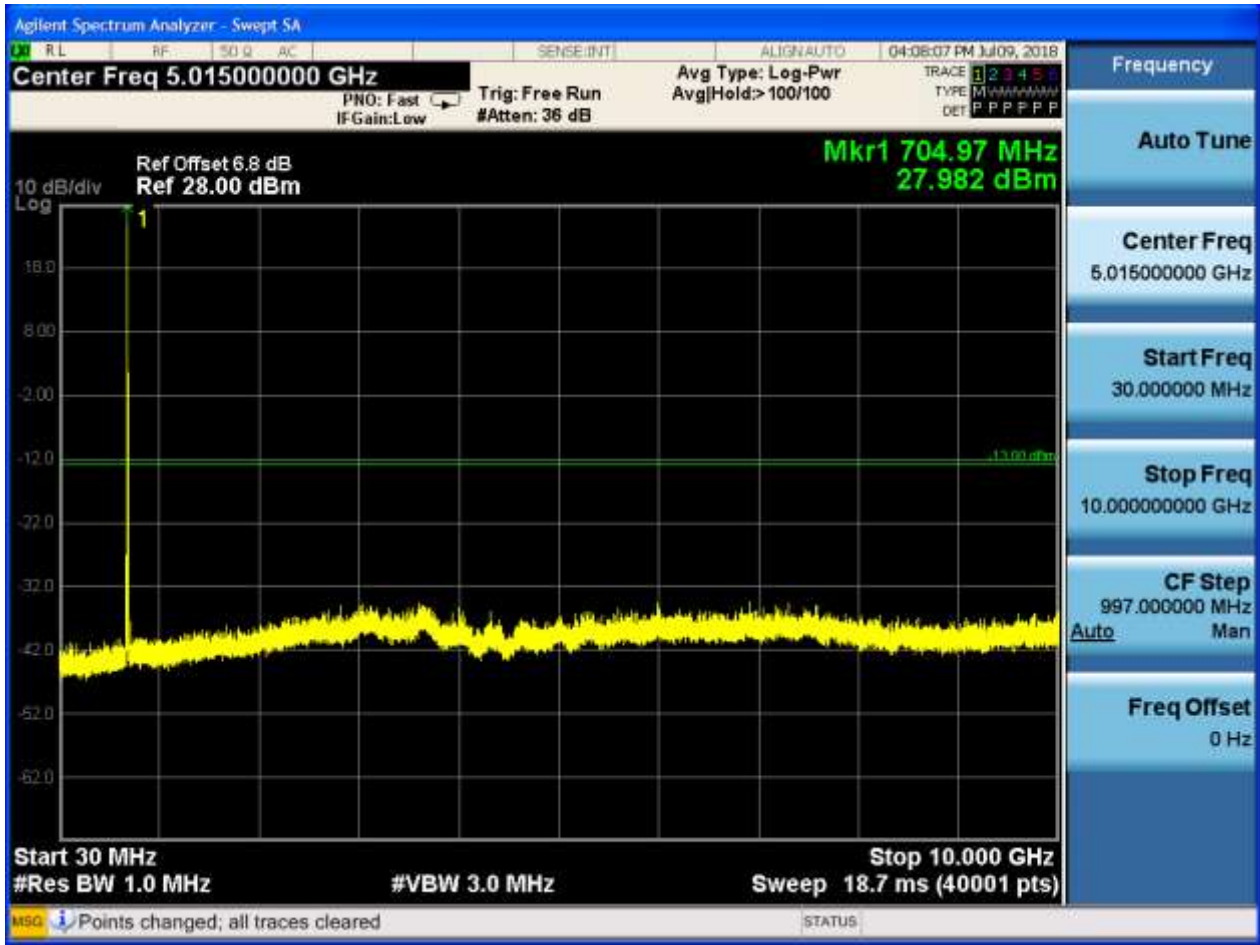
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





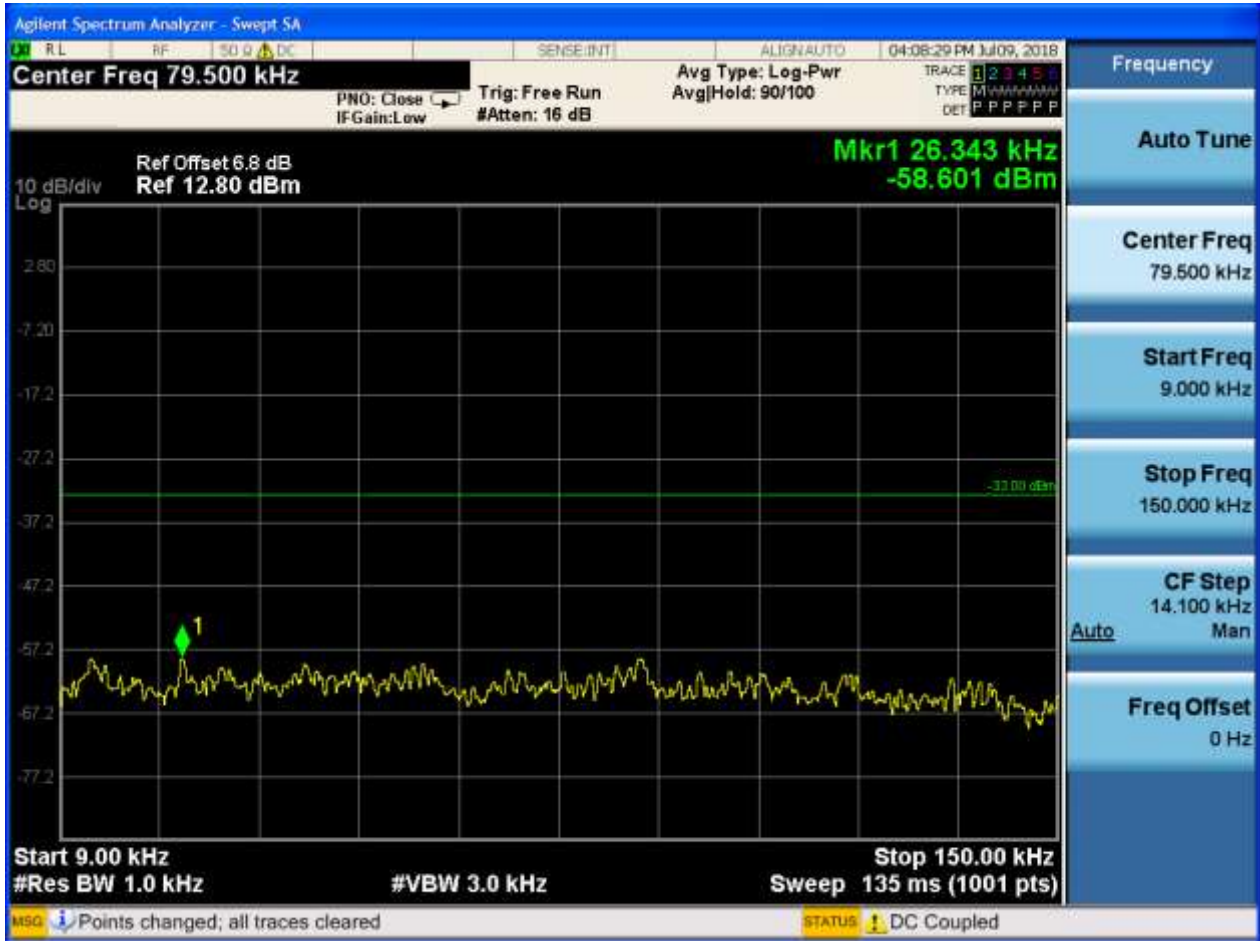




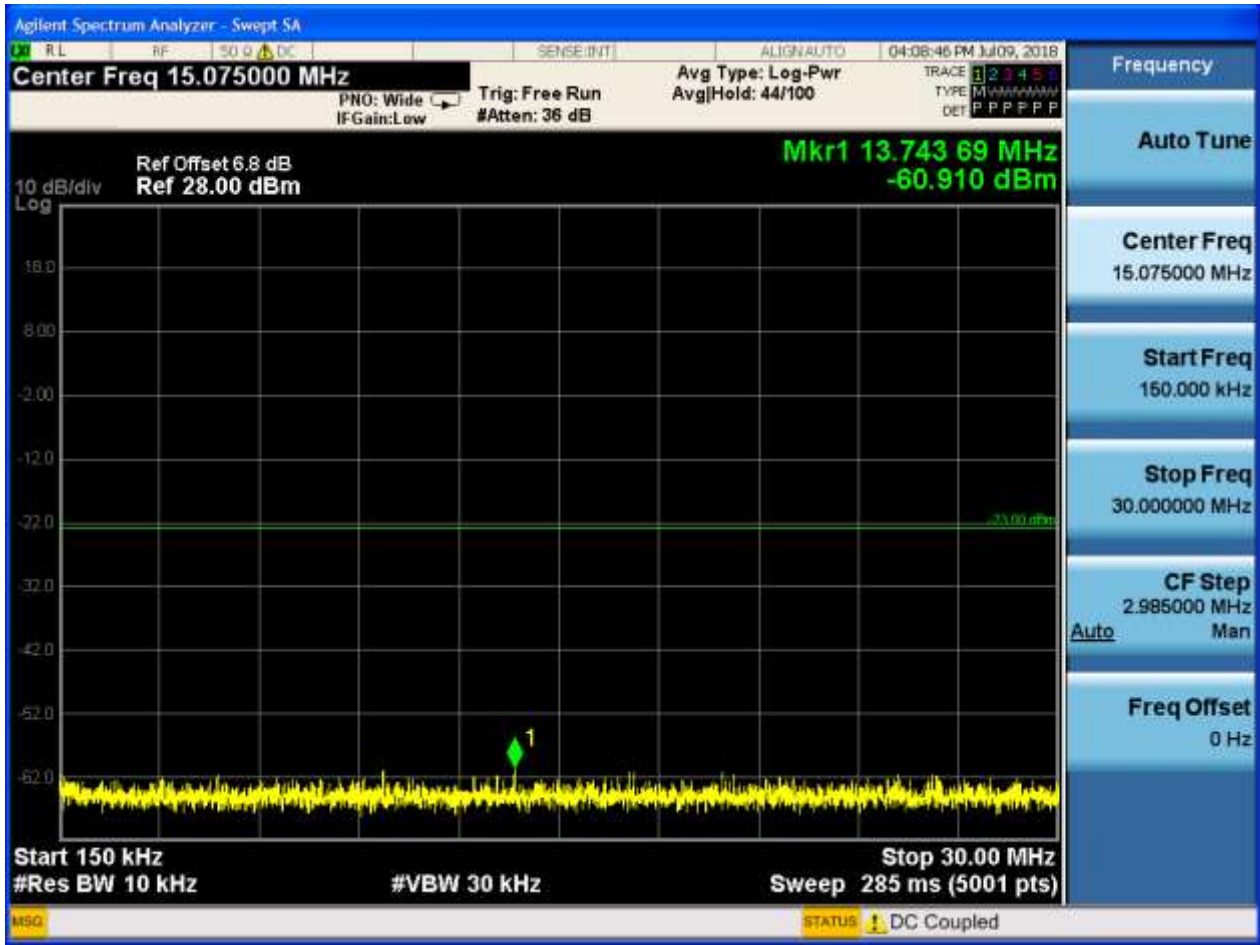


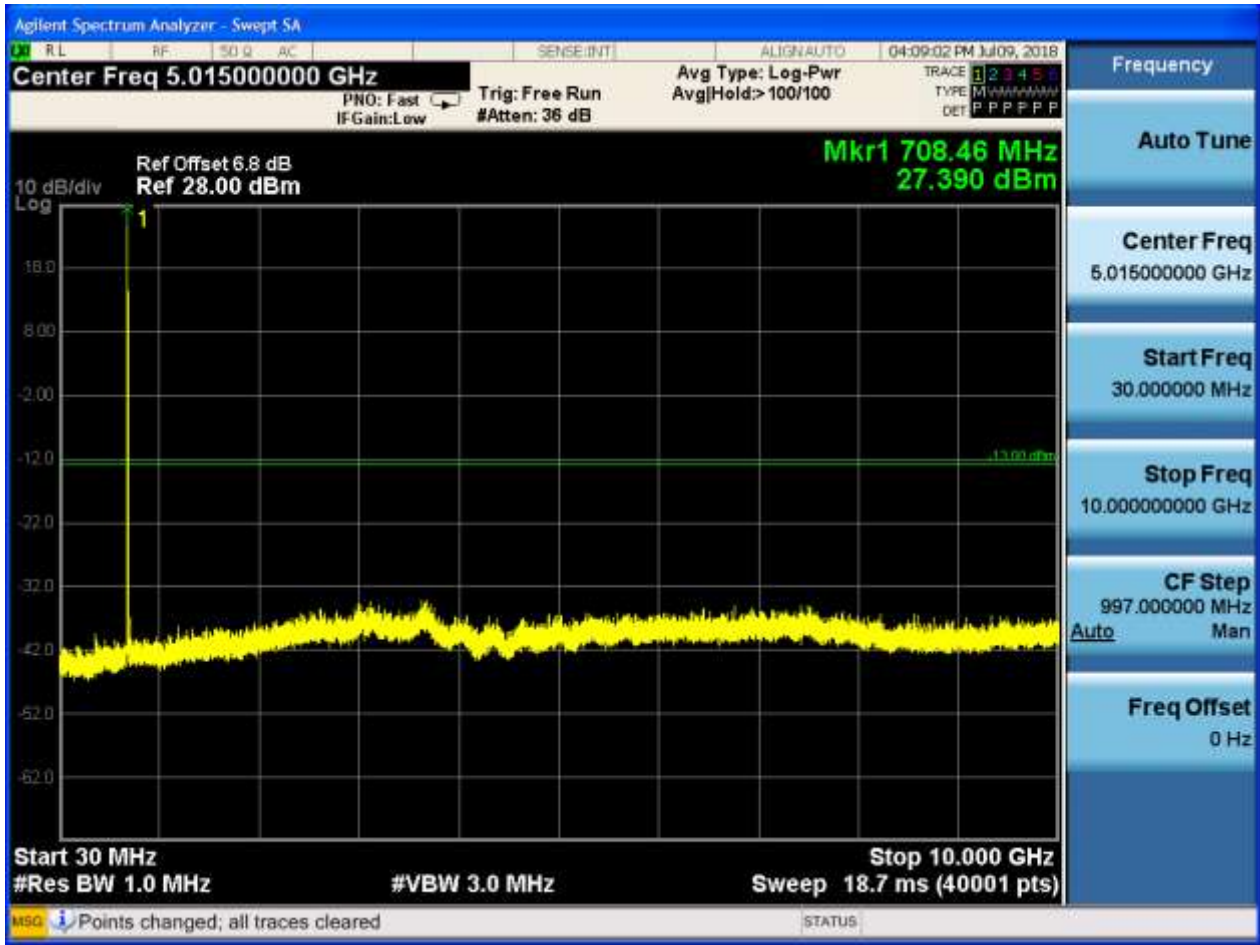
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



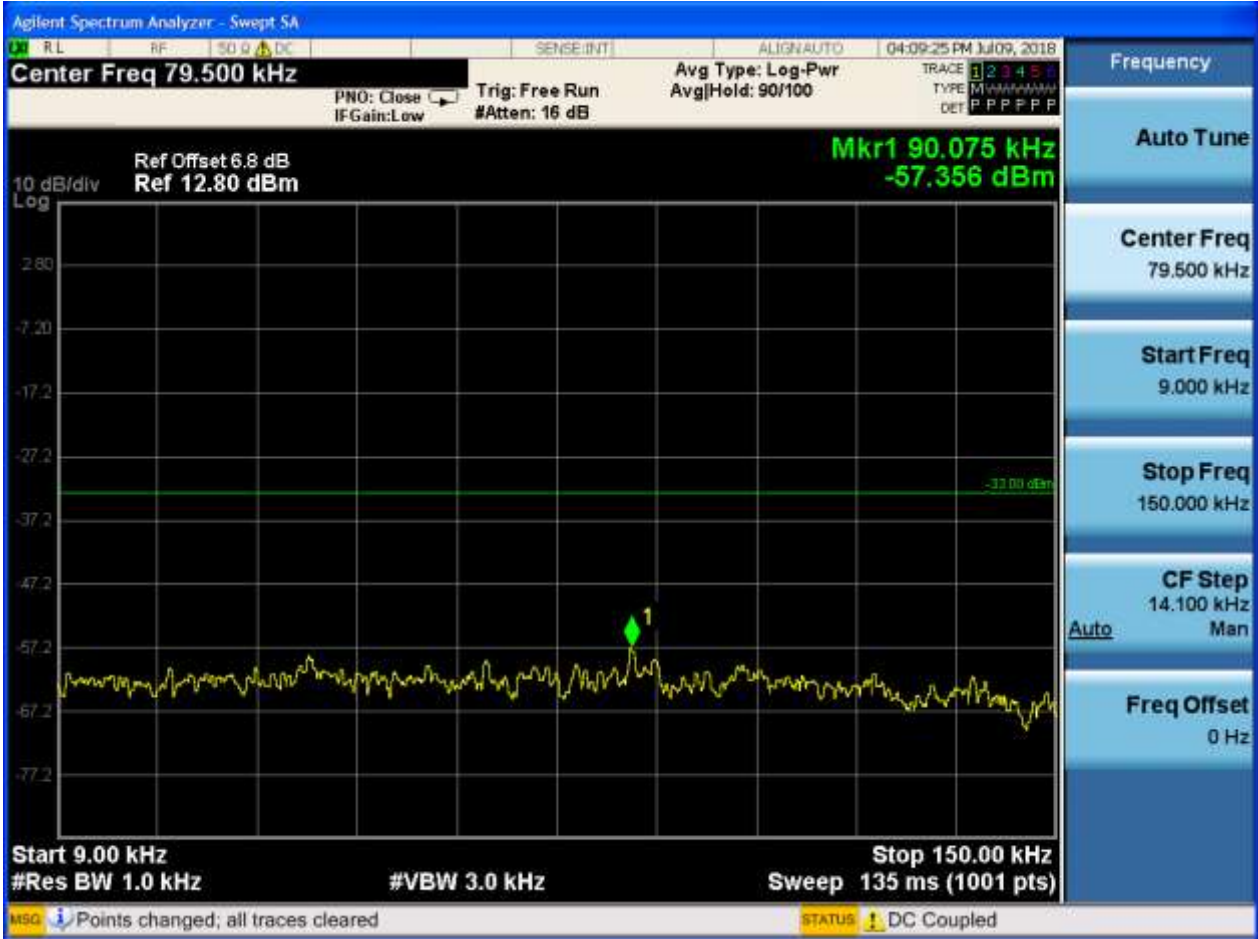


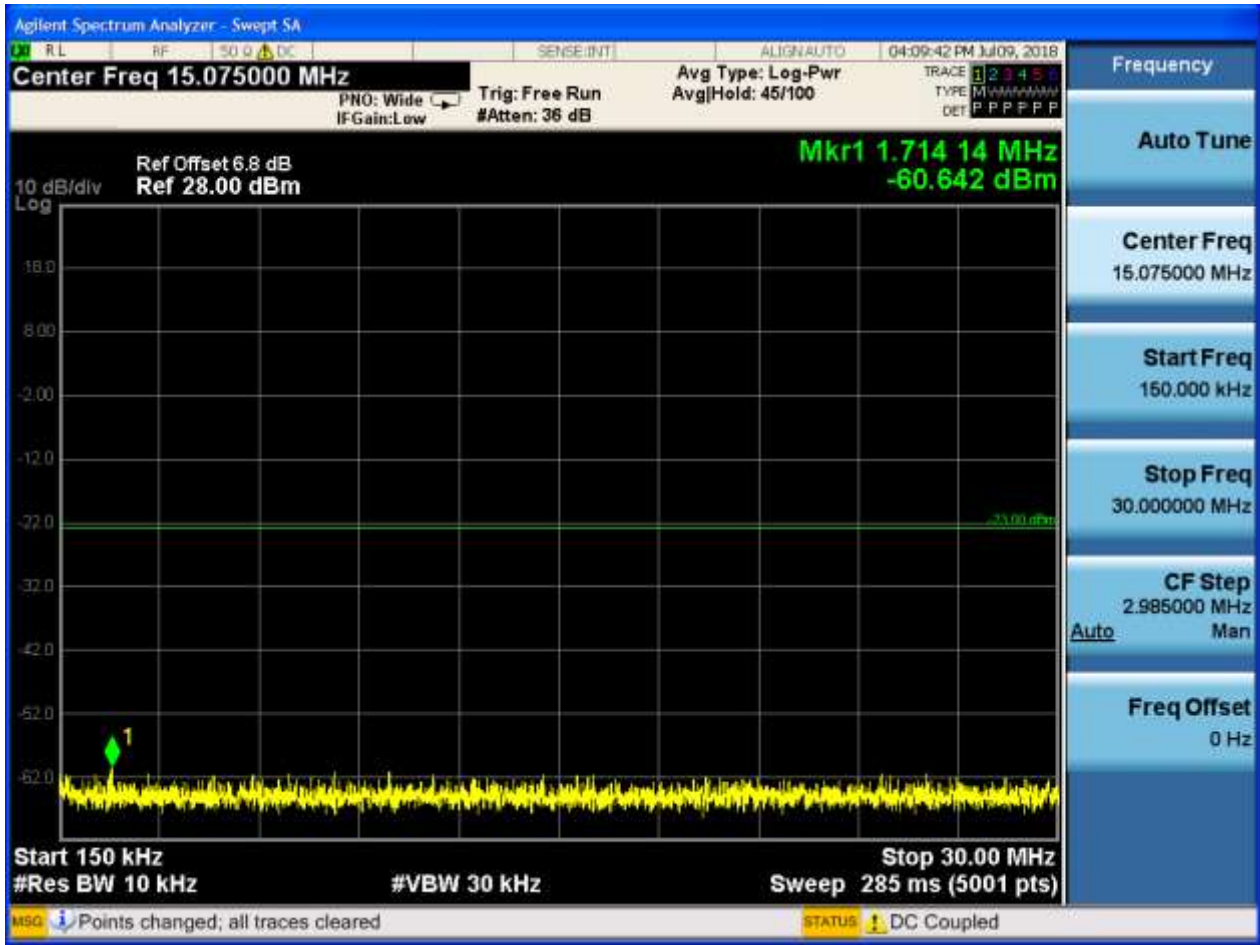




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





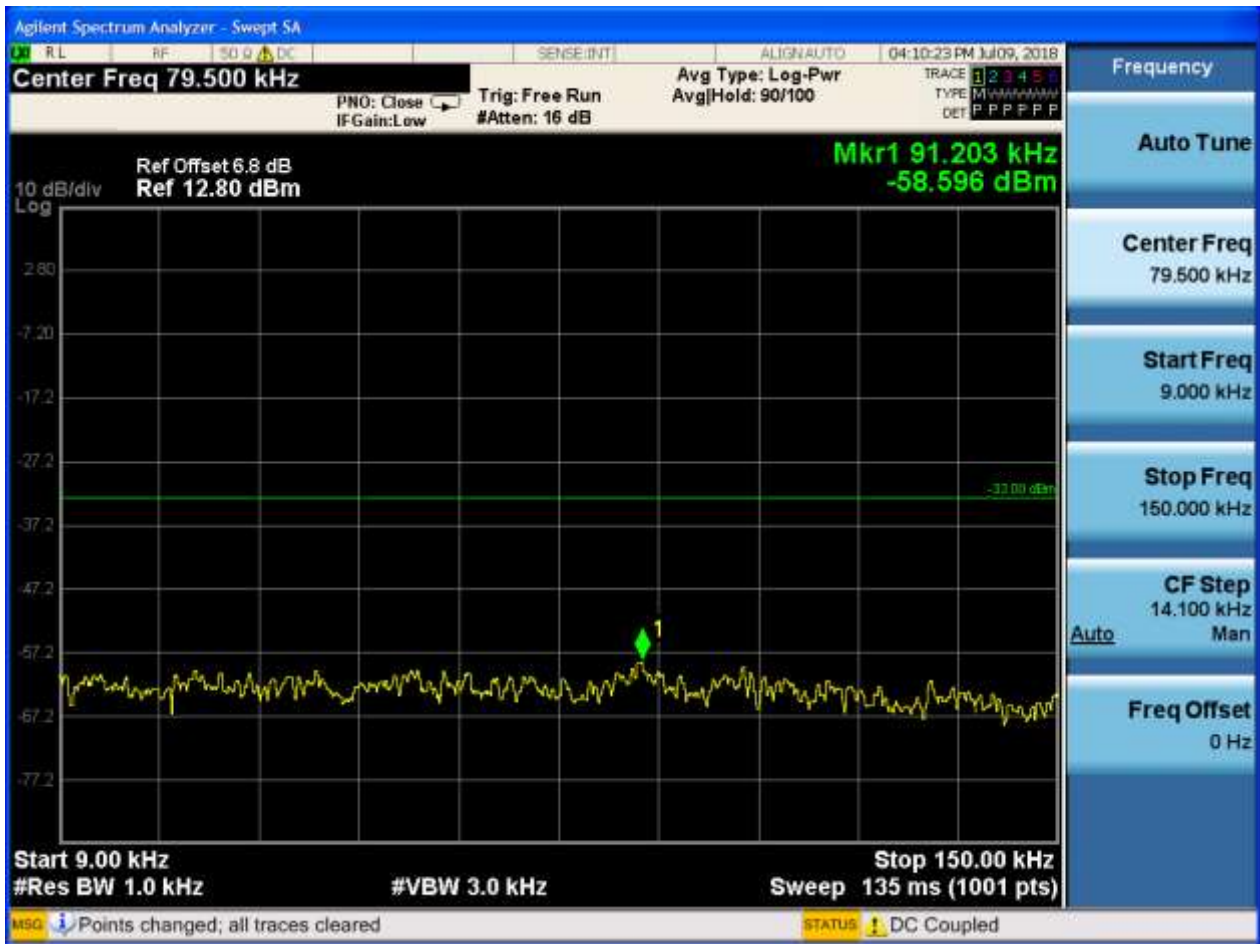




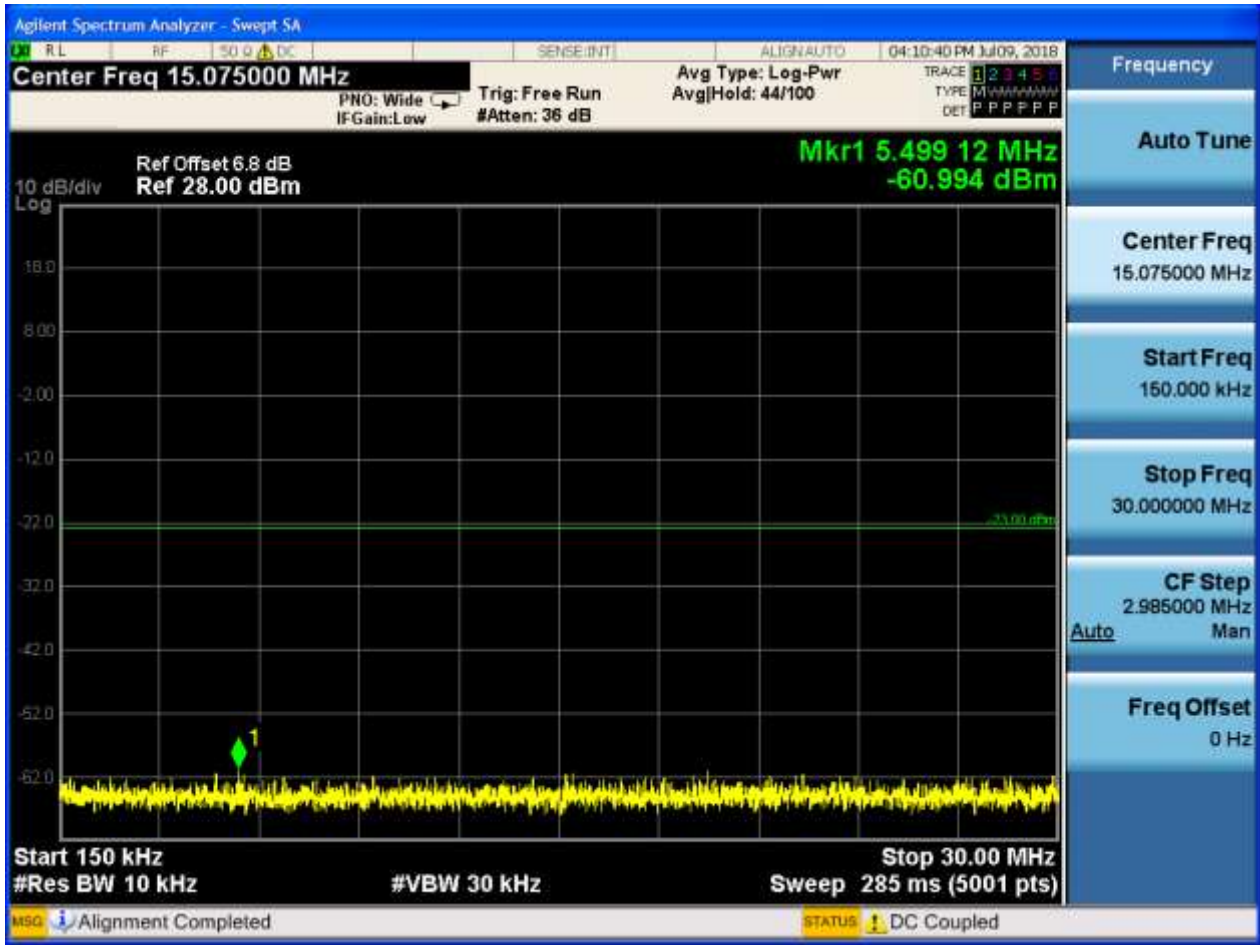
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

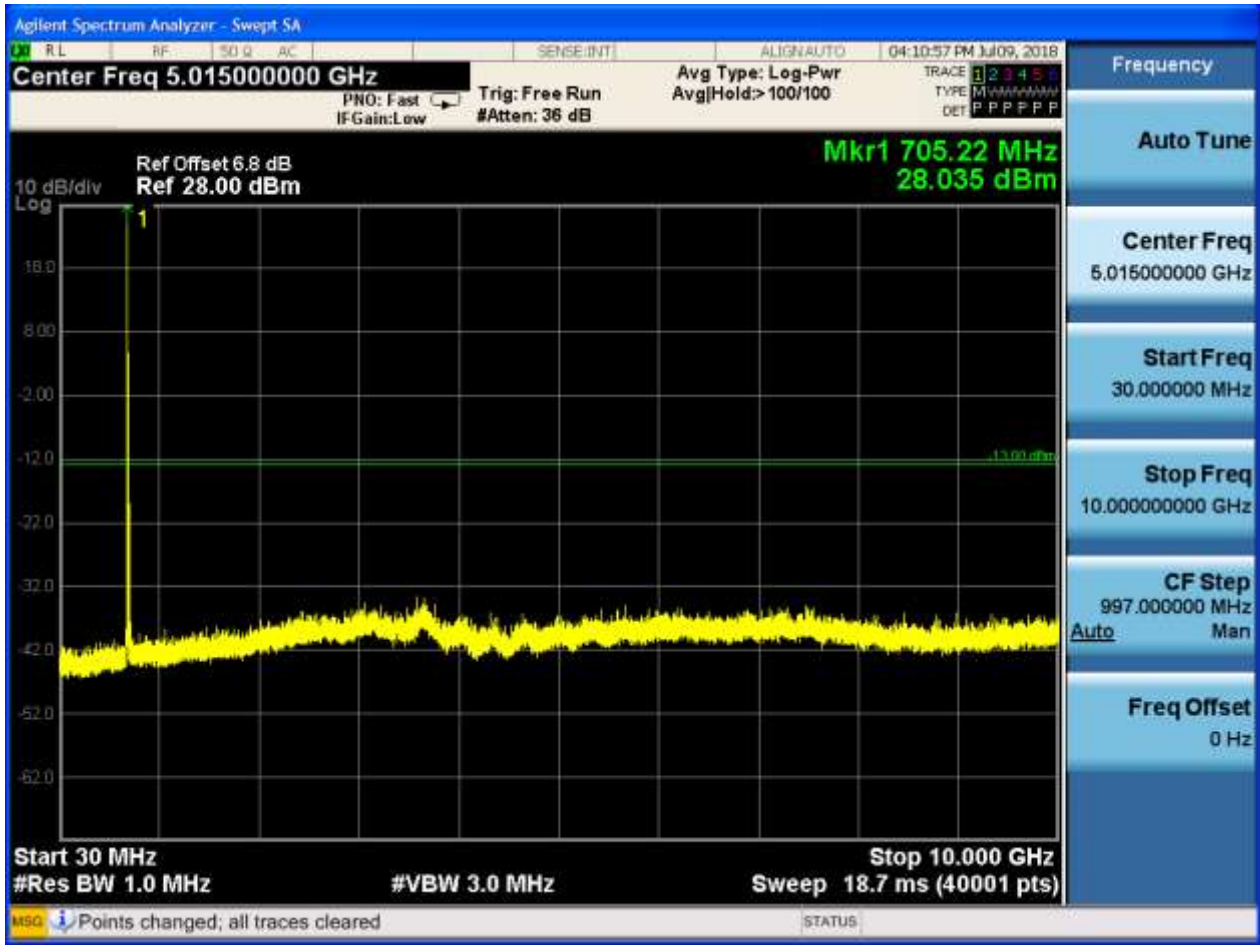
6.1.1.2.2.1.1 Test RB = RB1#0









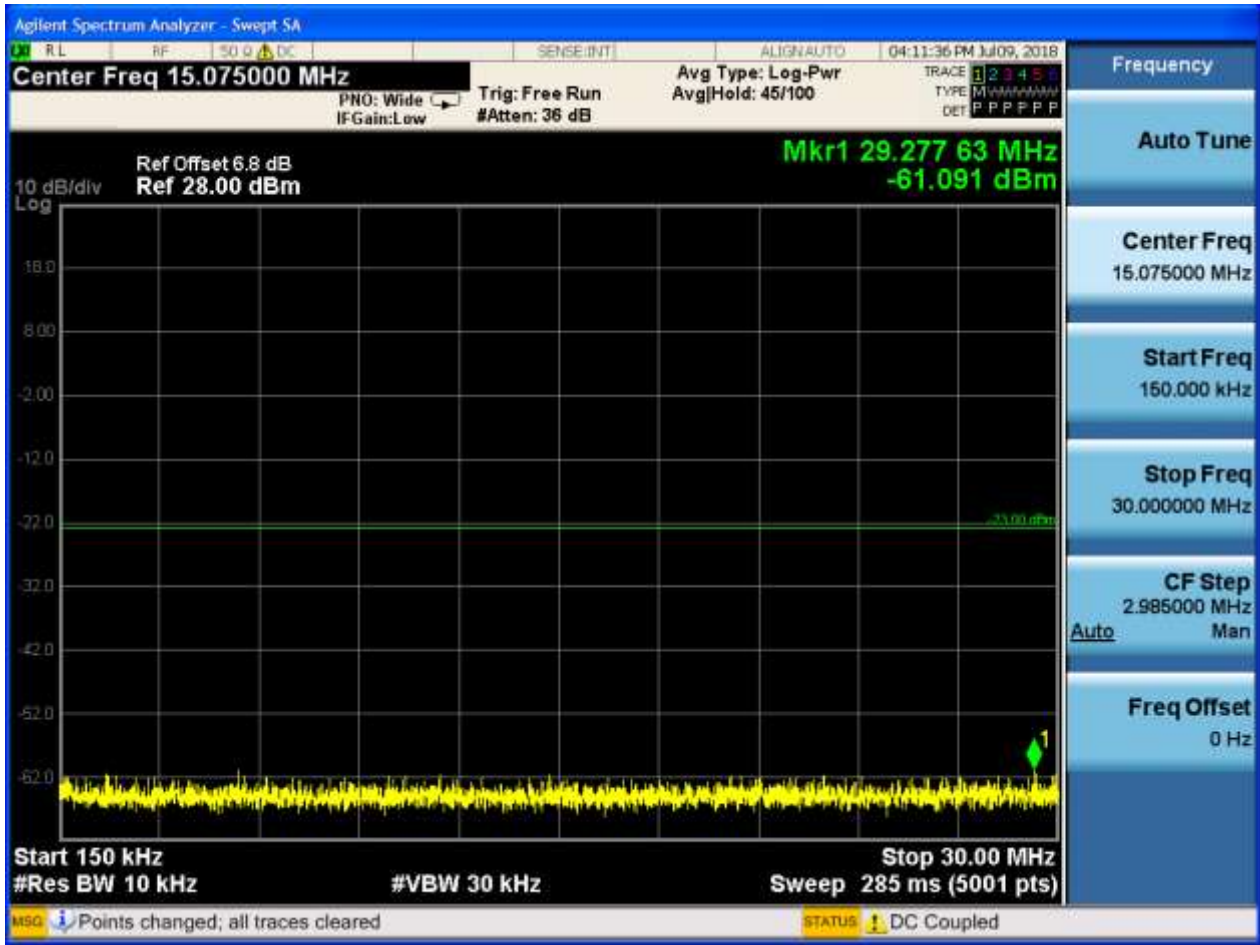


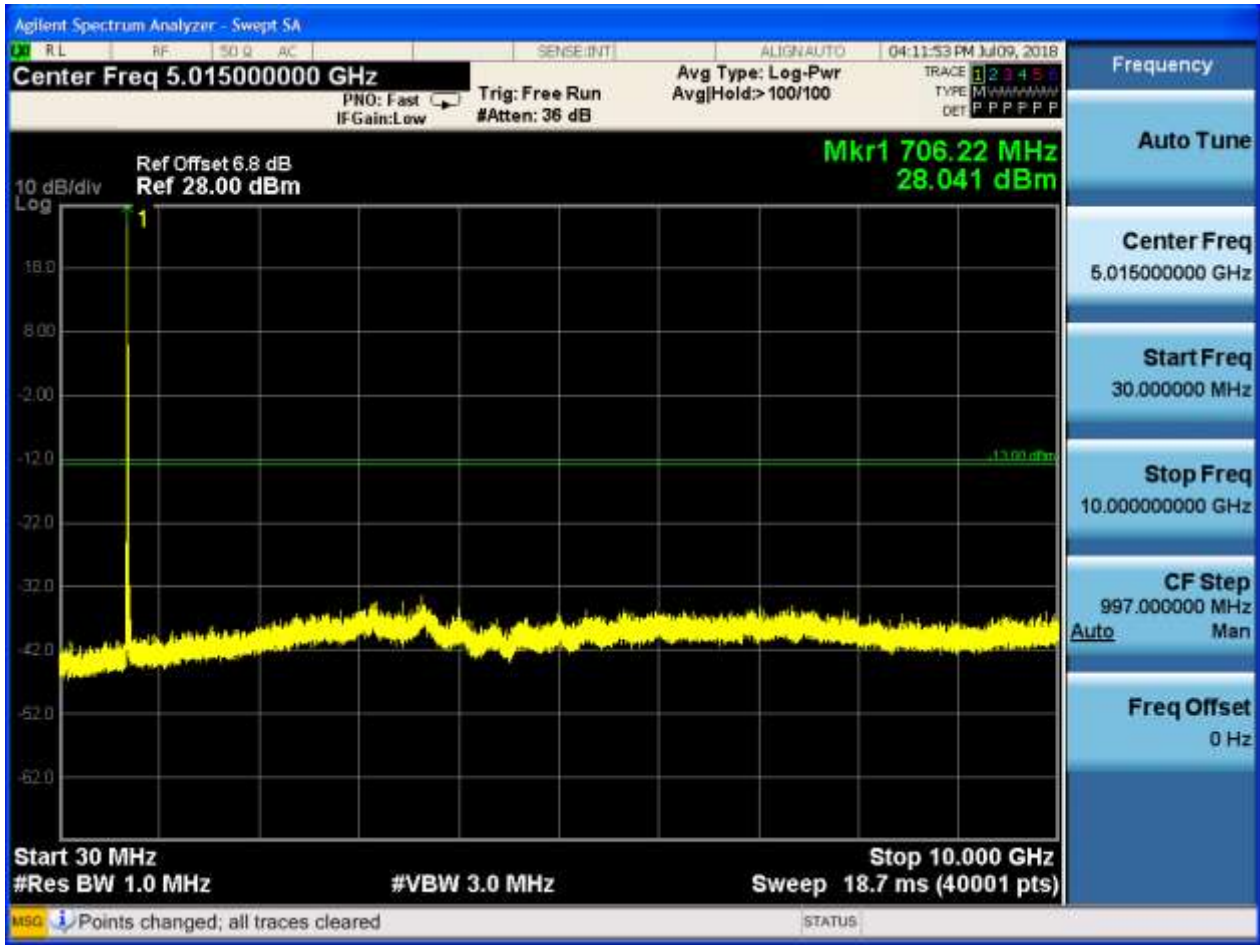


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



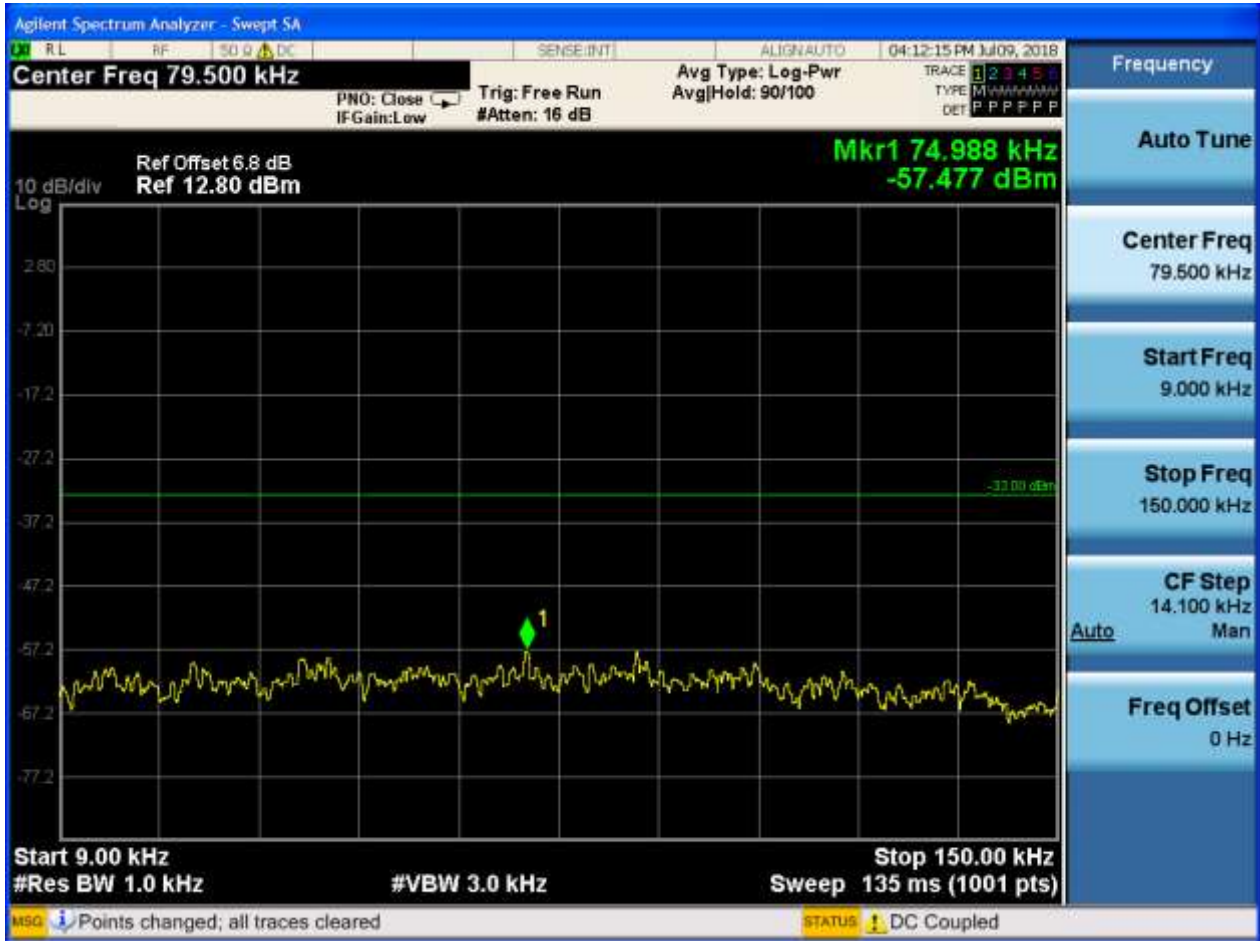


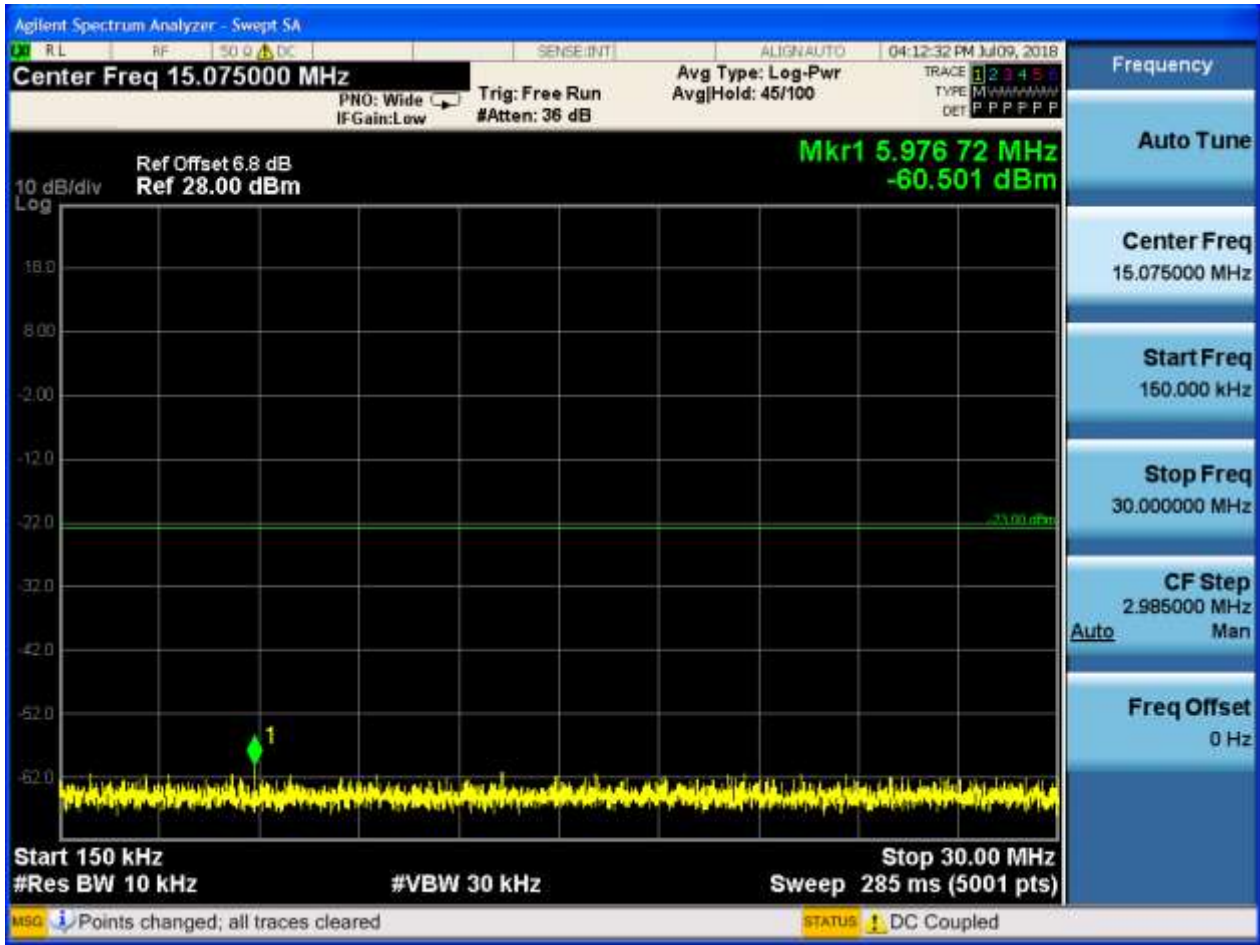




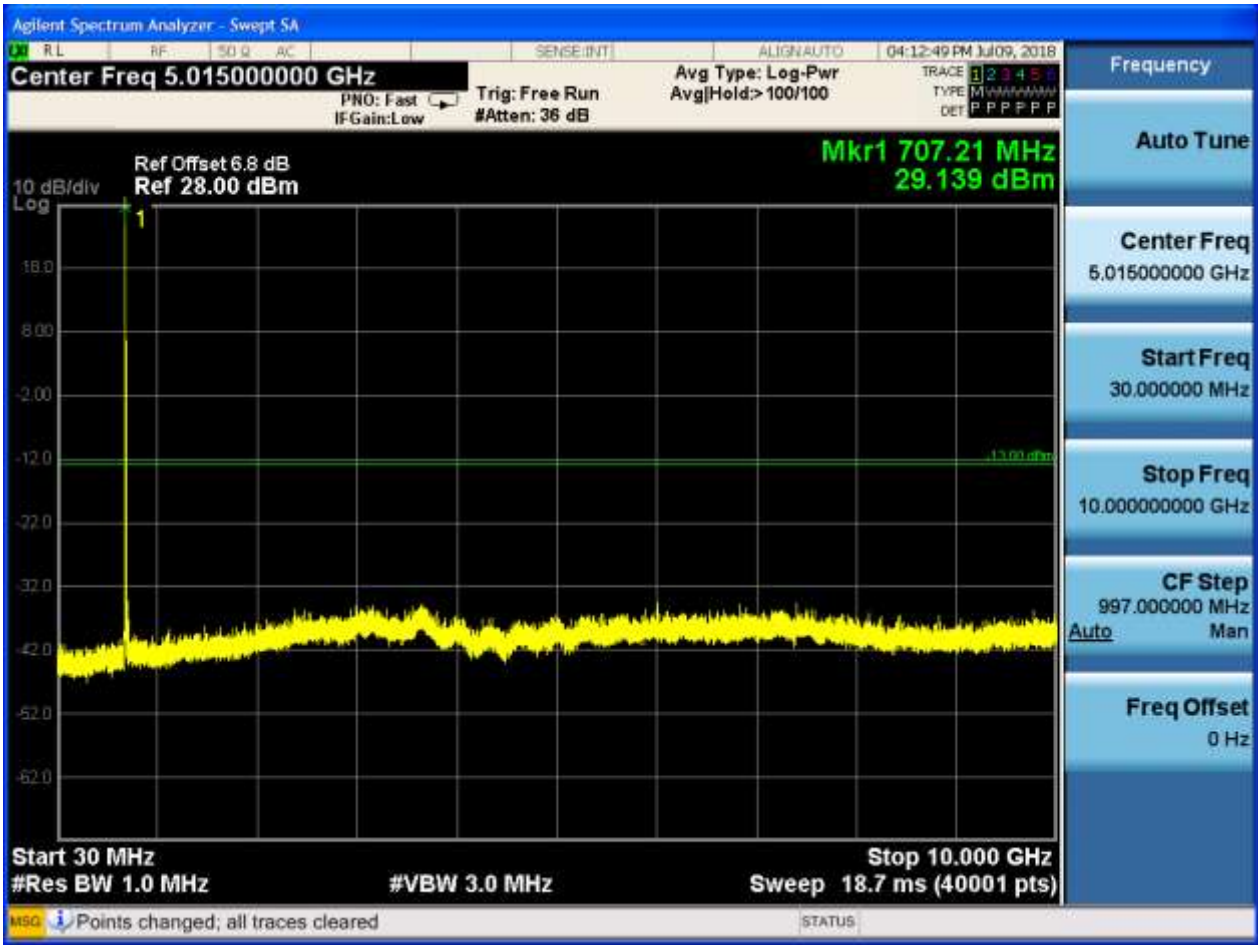
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0













## 7Appendix\_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

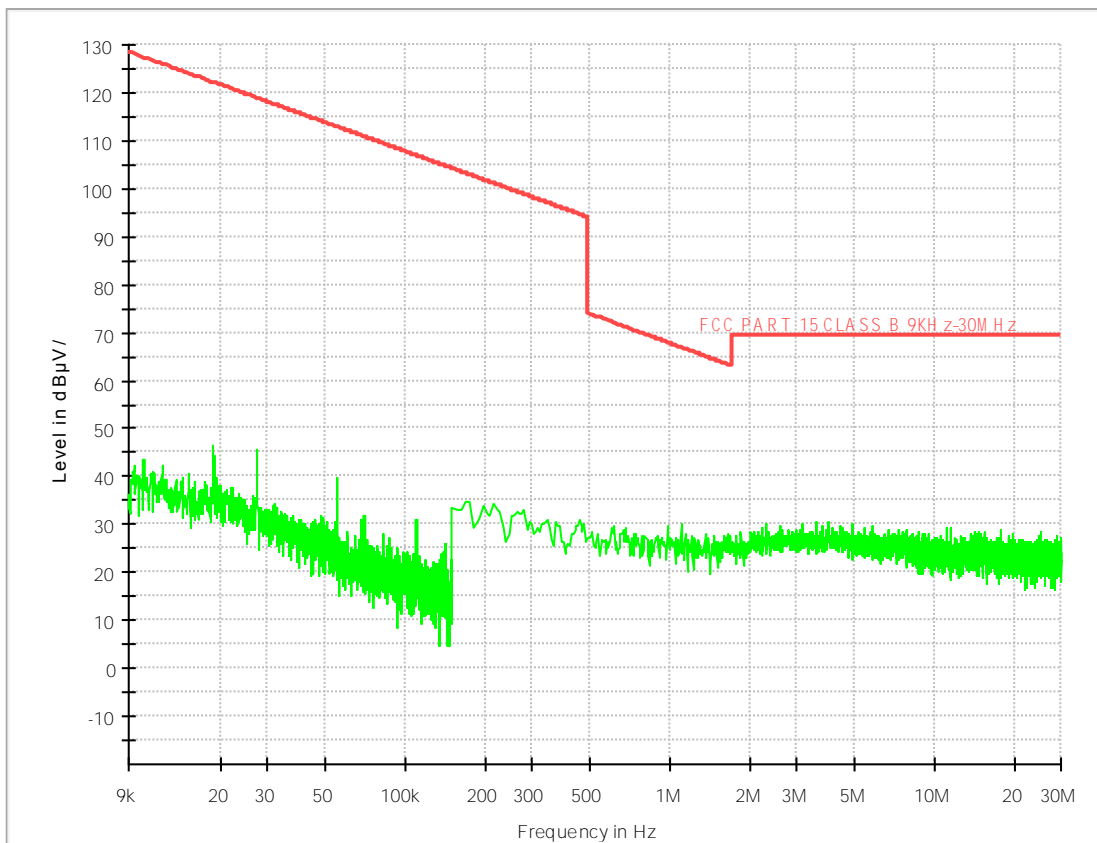


## Part I - Test Plots

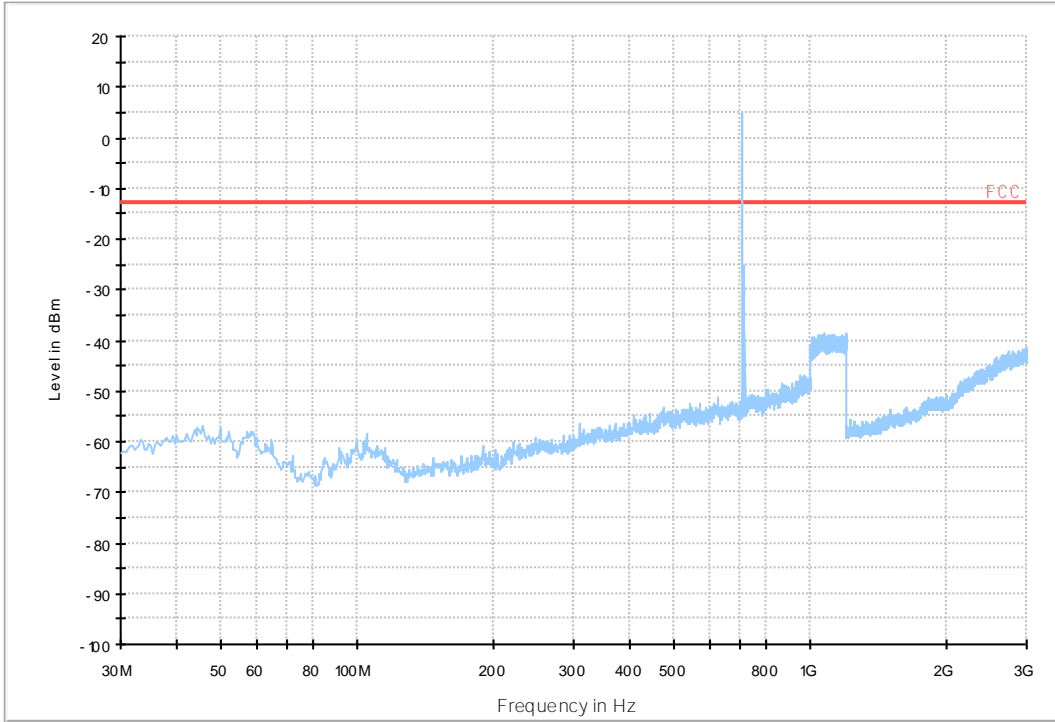
### 7.1 For LTE

#### 7.1.1 Test Band = BAND17-Ant1

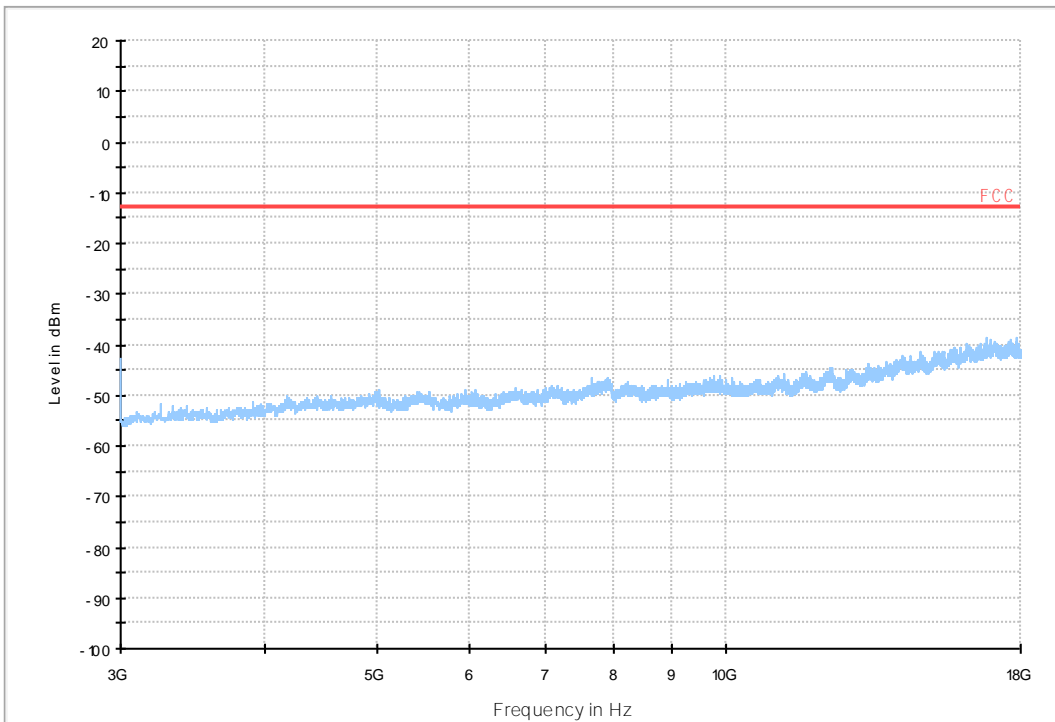
##### 7.1.1.1 Test Bandwidth = 5



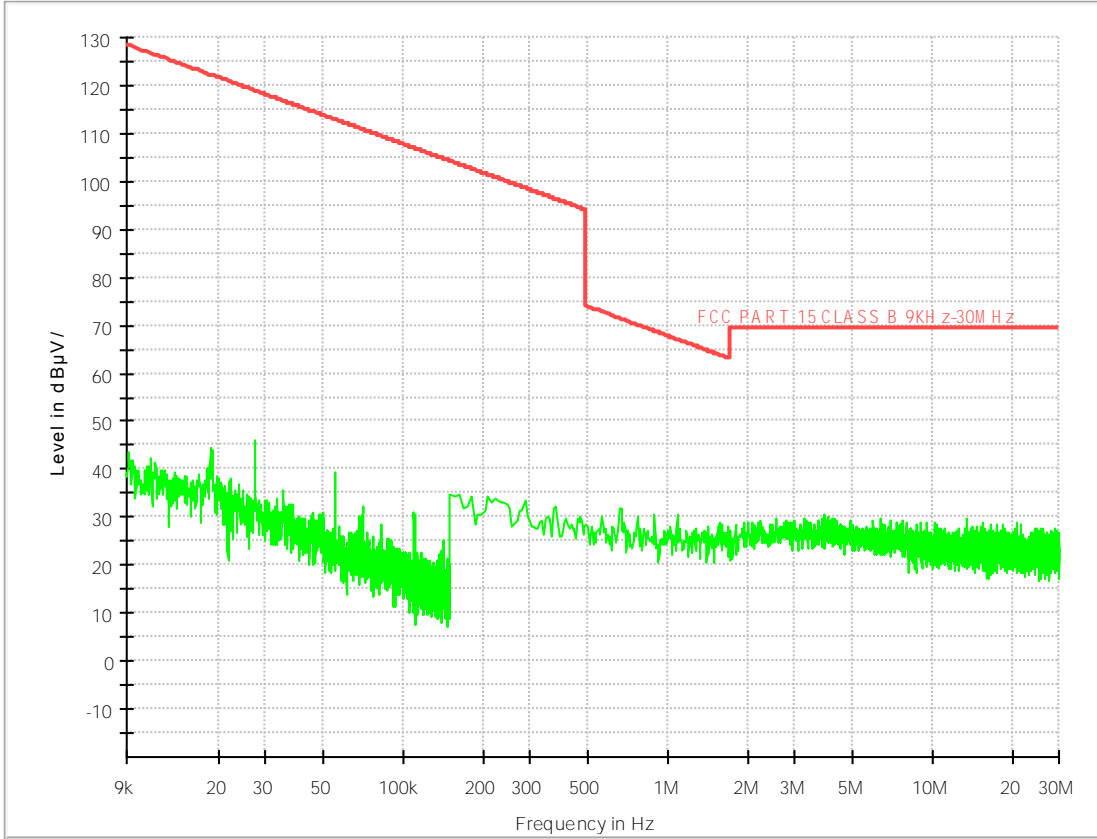
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



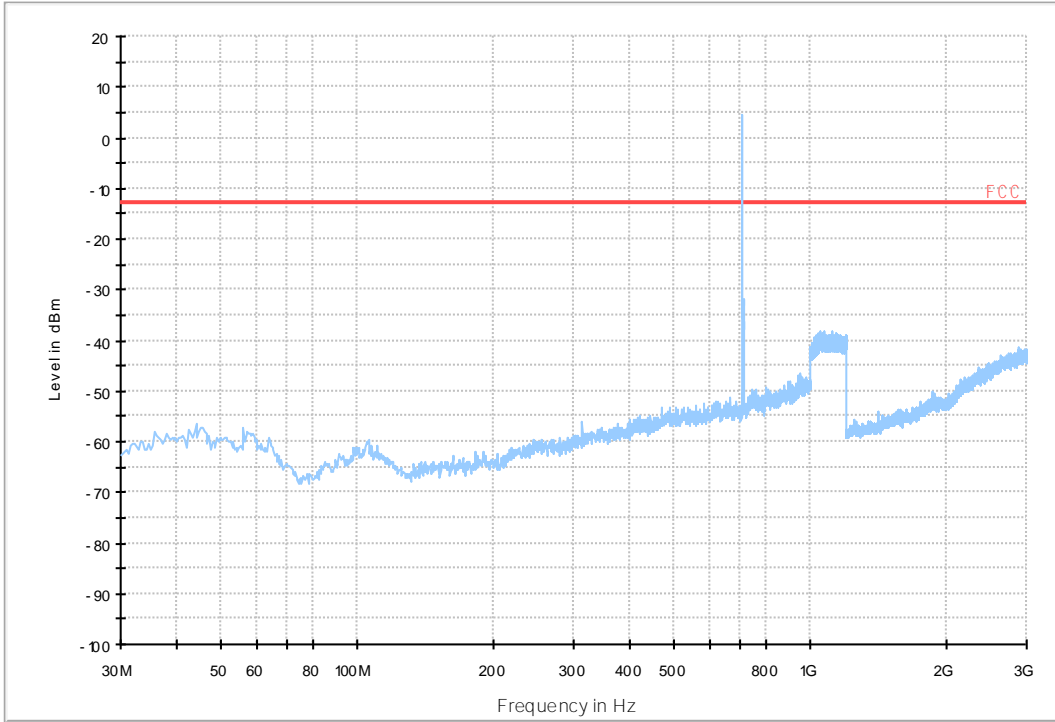
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



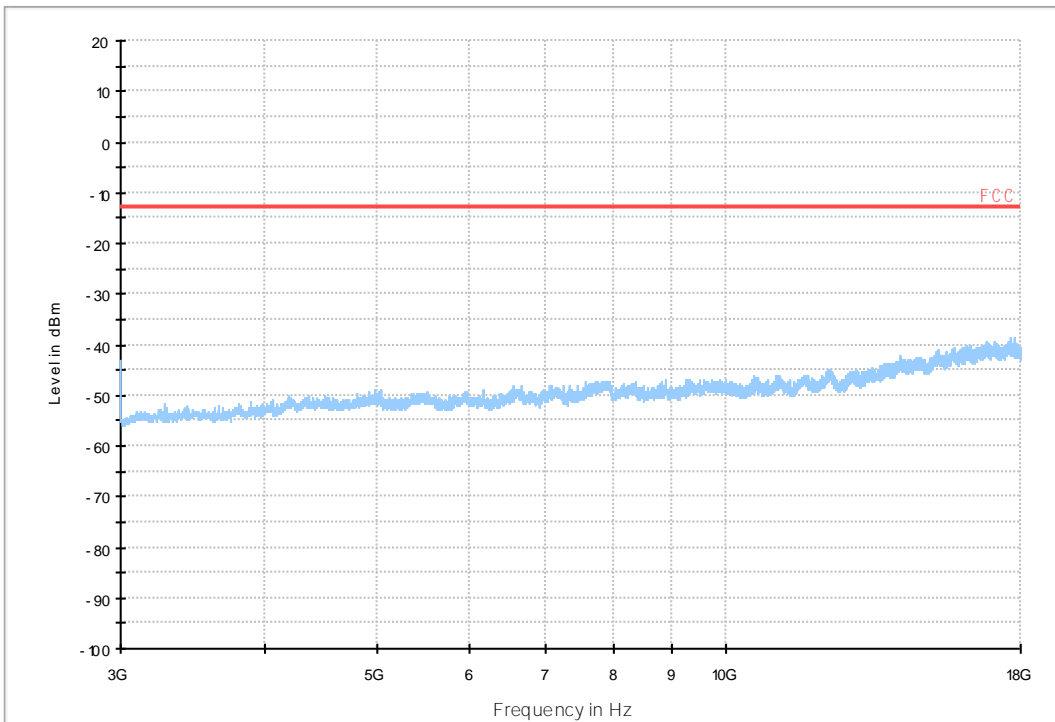
### 7.1.1.2 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L

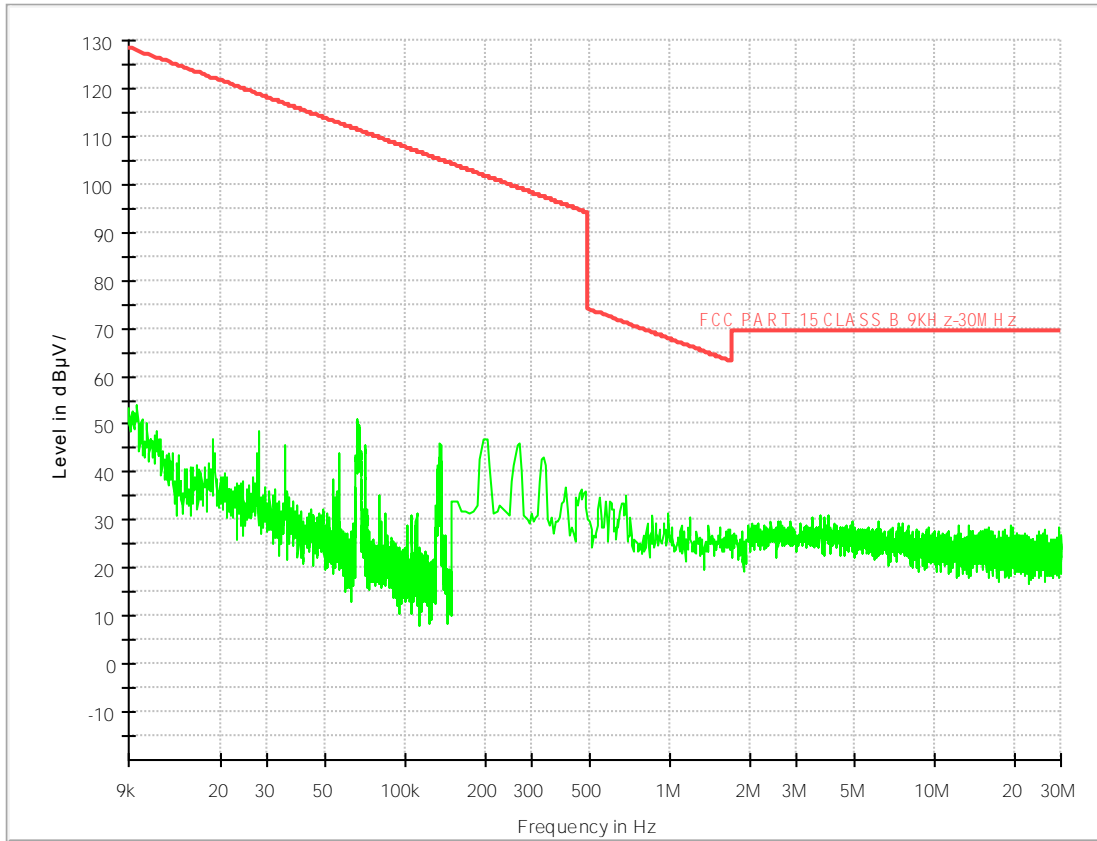


LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



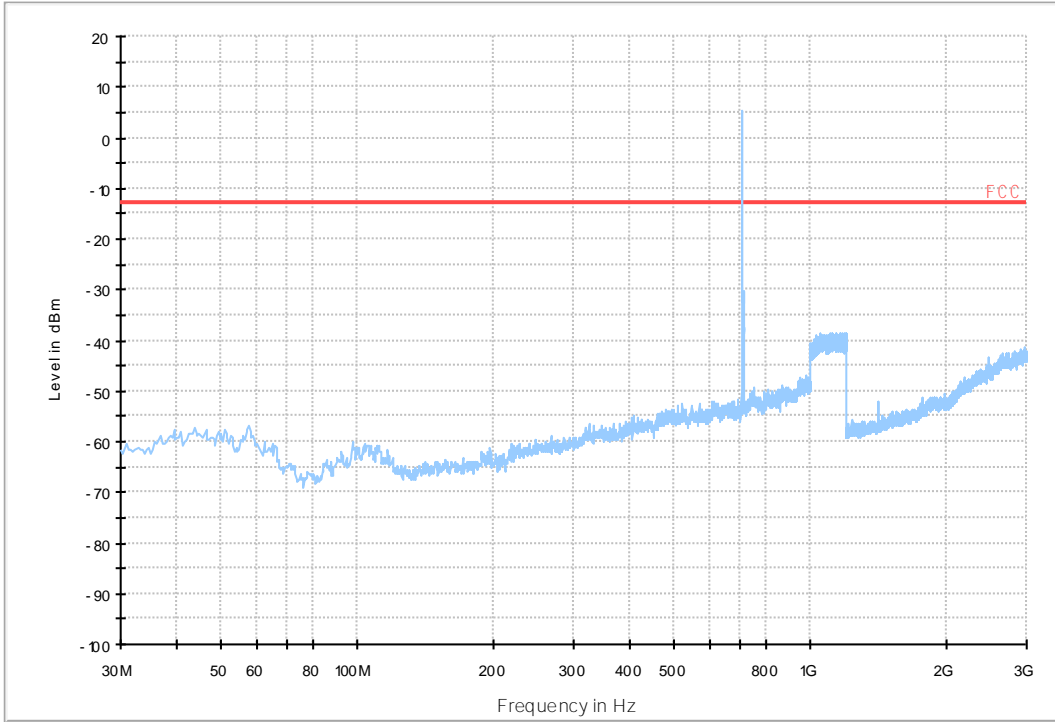
## 7.1.2 Test Band = BAND17-Ant2

### 7.1.2.1 Test Bandwidth = 5

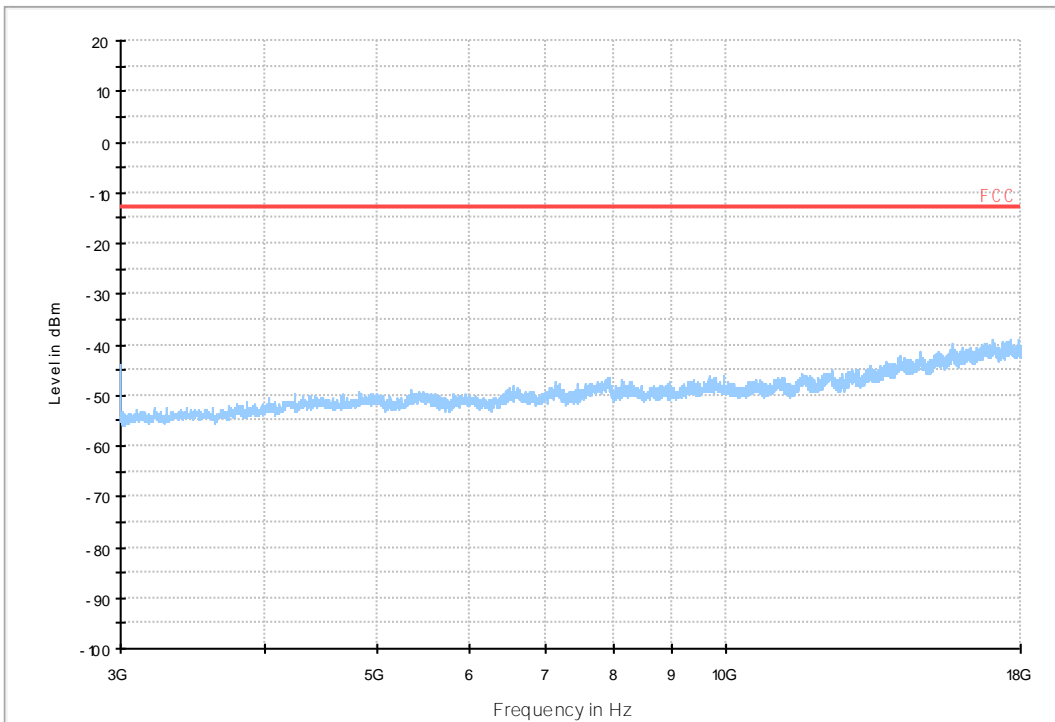




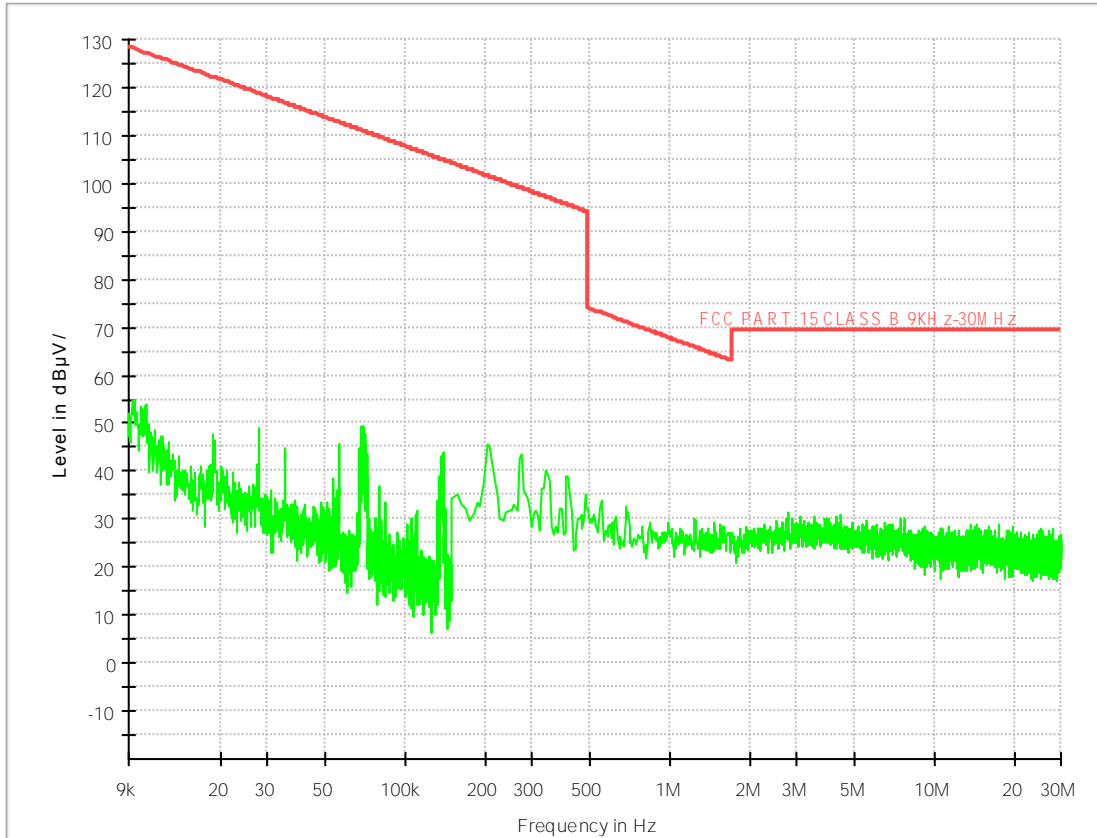
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



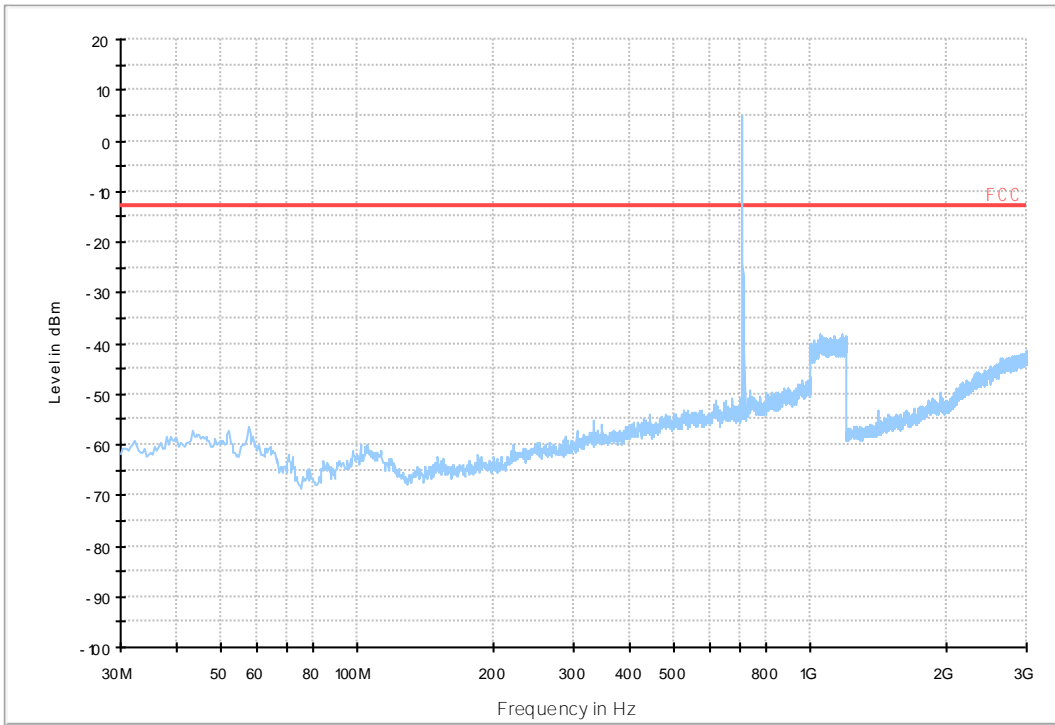
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



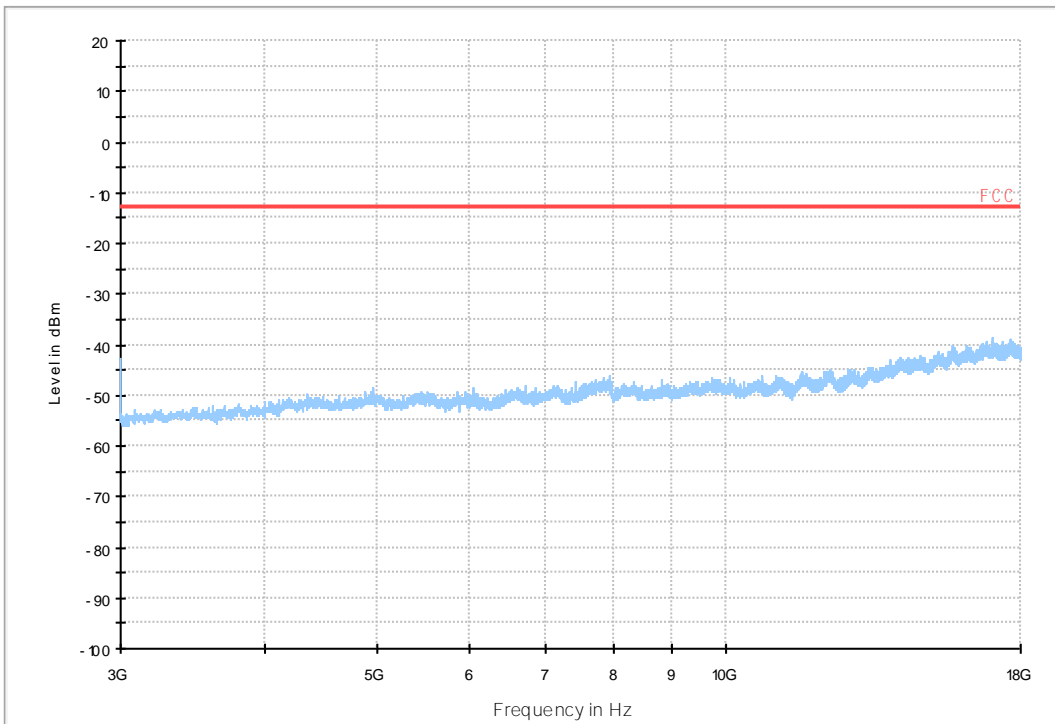
### 7.1.2.2 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17	LTE/TM1	5	LCH	TN	VL	3.22	0.00456	PASS
					VN	1.66	0.00235	PASS
					VH	-0.64	-0.00091	PASS
			MCH	TN	VL	-1.04	-0.00146	PASS
					VN	0.43	0.00061	PASS
					VH	0.46	0.00065	PASS
		HCH	TN	VL	-0.54	-0.00076	PASS	
				VN	2.65	0.00371	PASS	
				VH	0.37	0.00052	PASS	
		10	LCH	TN	VL	1.19	0.00168	PASS
					VN	2.26	0.00319	PASS
					VH	0.46	0.00065	PASS
	MCH		TN	VL	0.41	0.00058	PASS	
				VN	0.84	0.00118	PASS	
				VH	-0.46	-0.00065	PASS	
	HCH	TN	VL	0.69	0.00097	PASS		
			VN	-1.26	-0.00177	PASS		
			VH	0.27	0.00038	PASS		
	LTE/TM2	5	LCH	TN	VL	4.94	0.00699	PASS
					VN	2.15	0.00304	PASS
					VH	1.04	0.00147	PASS
			MCH	TN	VL	-4.08	-0.00575	PASS
					VN	-1.24	-0.00175	PASS
					VH	0.63	0.00089	PASS
HCH		TN	VL	3.40	0.00477	PASS		
			VN	-1.97	-0.00276	PASS		
			VH	2.42	0.00339	PASS		
10		LCH	TN	VL	-0.43	-0.00061	PASS	
				VN	-1.37	-0.00193	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	1.82	0.00257	PASS
			MCH	TN	VL	-1.06	-0.00149	PASS
					VN	2.66	0.00375	PASS
					VH	-1.62	-0.00228	PASS
			HCH	TN	VL	0.03	0.00004	PASS
					VN	1.43	0.00201	PASS
					VH	-0.60	-0.00084	PASS

## 8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17	LTE/TM1	5	LCH	VN	-30	3.86	0.00546	PASS
					-20	1.57	0.00222	PASS
					-10	-1.53	-0.00217	PASS
					0	0.57	0.00081	PASS
					10	1.03	0.00146	PASS
					20	6.08	0.00861	PASS
					30	-0.72	-0.00102	PASS
					40	3.49	0.00494	PASS
			MCH	VN	-30	0.34	0.00048	PASS
					-20	-0.66	-0.00093	PASS
					-10	-2.35	-0.00331	PASS
					0	1.02	0.00144	PASS
					10	-11.07	-0.01559	PASS
					20	0.47	0.00066	PASS
					30	-0.82	-0.00115	PASS
					40	9.63	0.01356	PASS
			HCH	VN	-30	3.58	0.00502	PASS
					-20	1.47	0.00206	PASS
					-10	0.24	0.00034	PASS
					0	2.75	0.00385	PASS
					10	-2.02	-0.00283	PASS
					20	2.72	0.00381	PASS
					30	-0.90	-0.00126	PASS
					40	1.07	0.0015	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10	LCH	VN	50	3.96	0.00555	PASS
					-30	-1.63	-0.0023	PASS
					-20	-1.30	-0.00183	PASS
					-10	-0.34	-0.00048	PASS
					0	-2.73	-0.00385	PASS
					10	-0.66	-0.00093	PASS
					20	-1.36	-0.00192	PASS
					30	-3.25	-0.00458	PASS
					40	1.36	0.00192	PASS
			50	-2.12	-0.00299	PASS		
			MCH	VN	-30	0.46	0.00065	PASS
					-20	-0.21	-0.0003	PASS
					-10	0.87	0.00123	PASS
					0	4.52	0.00637	PASS
					10	2.15	0.00303	PASS
					20	-0.76	-0.00107	PASS
					30	-2.59	-0.00365	PASS
					40	-2.96	-0.00417	PASS
			HCH	VN	-30	-2.16	-0.00304	PASS
					-20	-2.10	-0.00295	PASS
					-10	-1.12	-0.00158	PASS
					0	2.57	0.00361	PASS
					10	0.31	0.00044	PASS
					20	-0.33	-0.00046	PASS
	30	1.95			0.00274	PASS		
	40	-1.67			-0.00235	PASS		
	LCH	VN	5	-30	0.11	0.00016	PASS	
				-20	-2.19	-0.0031	PASS	
				-10	0.41	0.00058	PASS	
				0	1.89	0.00268	PASS	
				10	0.80	0.00113	PASS	
				20	3.18	0.0045	PASS	
				30	1.72	0.00243	PASS	
40				-1.57	-0.00222	PASS		
50				3.53	0.005	PASS		
MCH	VN	5	-30	-2.42	-0.00341	PASS		
			-20	-2.00	-0.00282	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-10	0.36	0.00051	PASS		
					0	-1.42	-0.002	PASS		
					10	-0.44	-0.00062	PASS		
					20	-0.83	-0.00117	PASS		
					30	0.60	0.00085	PASS		
					40	1.03	0.00145	PASS		
					50	-0.51	-0.00072	PASS		
					HCH	VN	-30	-1.77	-0.00248	PASS
							-20	-2.16	-0.00303	PASS
							-10	4.33	0.00607	PASS
							0	6.37	0.00893	PASS
							10	-3.52	-0.00493	PASS
							20	5.26	0.00737	PASS
							30	-0.89	-0.00125	PASS
							40	1.02	0.00143	PASS
		LCH	VN	-30	-1.59	-0.00224	PASS			
				-20	2.69	0.00379	PASS			
				-10	2.63	0.00371	PASS			
				0	-1.96	-0.00276	PASS			
				10	1.47	0.00207	PASS			
				20	1.90	0.00268	PASS			
				30	-0.80	-0.00113	PASS			
				40	1.39	0.00196	PASS			
				50	-1.95	-0.00275	PASS			
				MCH	VN	-30	1.14	0.00161	PASS	
						-20	1.77	0.00249	PASS	
						-10	-3.88	-0.00546	PASS	
		0	0.30			0.00042	PASS			
		10	-1.09			-0.00154	PASS			
		20	0.44			0.00062	PASS			
		30	-2.85			-0.00401	PASS			
		40	1.59			0.00224	PASS			
		HCH	VN	50	-0.30	-0.00042	PASS			
				-30	0.21	0.0003	PASS			
				-20	-0.94	-0.00132	PASS			
				-10	-1.70	-0.00239	PASS			
				0	1.87	0.00263	PASS			
		10	1.66	0.00233	PASS					





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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-0.40	-0.00056	PASS
					30	-0.34	-0.00048	PASS
					40	0.82	0.00115	PASS
					50	-0.84	-0.00118	PASS

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END