



## Appendix for test report

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# 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/EIRP [dBm]	Limit [dBm]	Verdict
BAND5	LTE/TM1	5	LCH	RB1#0	21.8	17.03	38.5	PASS
				RB1#13	22.7	17.93	38.5	PASS
				RB1#24	22.23	17.46	38.5	PASS
				RB12#0	21.3	16.53	38.5	PASS
				RB12#6	21.74	16.97	38.5	PASS
				RB12#13	21.6	16.83	38.5	PASS
				RB25#0	21.49	16.72	38.5	PASS
			MCH	RB1#0	22.08	17.31	38.5	PASS
				RB1#13	22.56	17.79	38.5	PASS
				RB1#24	22.03	17.26	38.5	PASS
				RB12#0	21.37	16.6	38.5	PASS
				RB12#6	21.54	16.77	38.5	PASS
				RB12#13	21.35	16.58	38.5	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict	
				RB25#0	21.26	16.49	38.5	PASS	
			HCH	RB1#0	22.11	17.34	38.5	PASS	
				RB1#13	22.61	17.84	38.5	PASS	
				RB1#24	21.83	17.06	38.5	PASS	
				RB12#0	21.56	16.79	38.5	PASS	
				RB12#6	21.67	16.9	38.5	PASS	
				RB12#13	21.44	16.67	38.5	PASS	
				RB25#0	21.44	16.67	38.5	PASS	
		10	LCH	RB1#0	21.8	17.03	38.5	PASS	
				RB1#25	22.75	17.98	38.5	PASS	
				RB1#49	21.71	16.94	38.5	PASS	
				RB25#0	21.3	16.53	38.5	PASS	
				RB25#13	21.64	16.87	38.5	PASS	
				RB25#25	21.36	16.59	38.5	PASS	
				RB50#0	21.37	16.6	38.5	PASS	
				MCH	RB1#0	22.06	17.29	38.5	PASS
					RB1#25	22.48	17.71	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.54	16.77	38.5	PASS
				RB25#0	21.1	16.33	38.5	PASS
				RB25#13	21.18	16.41	38.5	PASS
				RB25#25	21.1	16.33	38.5	PASS
				RB50#0	21.08	16.31	38.5	PASS
			HCH	RB1#0	22.01	17.24	38.5	PASS
				RB1#25	22.64	17.87	38.5	PASS
				RB1#49	21.46	16.69	38.5	PASS
				RB25#0	21.22	16.45	38.5	PASS
				RB25#13	21.5	16.73	38.5	PASS
				RB25#25	21.29	16.52	38.5	PASS
				RB50#0	21.3	16.53	38.5	PASS
			LCH	RB1#0	20.79	16.02	38.5	PASS
				RB1#13	21.63	16.86	38.5	PASS
				RB1#24	21.16	16.39	38.5	PASS
RB12#0	20.29	15.52		38.5	PASS			
RB12#6	20.74	15.97		38.5	PASS			

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict			
				RB12#13	20.59	15.82	38.5	PASS			
				RB25#0	20.49	15.72	38.5	PASS			
			MCH	RB1#0	21.07	16.3	38.5	PASS			
				RB1#13	21.61	16.84	38.5	PASS			
				RB1#24	21.1	16.33	38.5	PASS			
				RB12#0	20.37	15.6	38.5	PASS			
				RB12#6	20.57	15.8	38.5	PASS			
				RB12#13	20.37	15.6	38.5	PASS			
				RB25#0	20.25	15.48	38.5	PASS			
			HCH	RB1#0	21.33	16.56	38.5	PASS			
				RB1#13	21.82	17.05	38.5	PASS			
				RB1#24	21.07	16.3	38.5	PASS			
				RB12#0	20.63	15.86	38.5	PASS			
				RB12#6	20.74	15.97	38.5	PASS			
				RB12#13	20.51	15.74	38.5	PASS			
							RB25#0	20.44	15.67	38.5	PASS
					10	LCH	RB1#0	20.86	16.09	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
				RB1#25	21.75	16.98	38.5	PASS
				RB1#49	20.74	15.97	38.5	PASS
				RB25#0	20.34	15.57	38.5	PASS
				RB25#13	20.67	15.9	38.5	PASS
				RB25#25	20.37	15.6	38.5	PASS
				RB50#0	20.4	15.63	38.5	PASS
			MCH	RB1#0	21.19	16.42	38.5	PASS
				RB1#25	21.53	16.76	38.5	PASS
				RB1#49	20.72	15.95	38.5	PASS
				RB25#0	20.17	15.4	38.5	PASS
				RB25#13	20.25	15.48	38.5	PASS
				RB25#25	20.18	15.41	38.5	PASS
				RB50#0	20.11	15.34	38.5	PASS
			HCH	RB1#0	21.05	16.28	38.5	PASS
				RB1#25	21.62	16.85	38.5	PASS
				RB1#49	20.51	15.74	38.5	PASS
				RB25#0	20.26	15.49	38.5	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.56	15.79	38.5	PASS
				RB25#25	20.37	15.6	38.5	PASS
				RB50#0	20.37	15.6	38.5	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: RBW > emission bandwidth, VBW > 3 x RBW.

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
BAND5	LTE/TM1	5	LCH	RB1#0	4.71	13	PASS
				RB1#13	3.71	13	PASS
				RB1#24	3.95	13	PASS
				RB12#0	5.36	13	PASS
				RB12#6	4.82	13	PASS
				RB12#13	4.98	13	PASS
				RB25#0	5.59	13	PASS
			MCH	RB1#0	4.6	13	PASS
				RB1#13	4.55	13	PASS
				RB1#24	4.62	13	PASS
				RB12#0	5.52	13	PASS
				RB12#6	5.48	13	PASS
				RB12#13	5.64	13	PASS
			HCH	RB25#0	5.78	13	PASS
				RB1#0	4.08	13	PASS
				RB1#13	3.86	13	PASS
				RB1#24	4.3	13	PASS
				RB12#0	5.23	13	PASS
		RB12#6		5.01	13	PASS	
		10	LCH	RB12#13	5.27	13	PASS
				RB25#0	5.43	13	PASS
				RB1#0	4.32	13	PASS
				RB1#25	3.47	13	PASS
				RB1#49	4.38	13	PASS
				RB25#0	5.35	13	PASS
			MCH	RB25#13	4.91	13	PASS
				RB25#25	5.46	13	PASS
RB50#0	5.74			13	PASS		
			MCH	RB1#0	4.18	13	PASS
			MCH	RB1#25	4.33	13	PASS
			MCH	RB1#49	4.51	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	5.08	13	PASS
				RB1#25	5.26	13	PASS
				RB1#49	5.37	13	PASS
				RB25#0	6.54	13	PASS
				RB25#13	6.43	13	PASS
				RB25#25	6.57	13	PASS
				RB50#0	6.92	13	PASS
			HCH	RB1#0	5.27	13	PASS
				RB1#25	4.59	13	PASS
				RB1#49	5.09	13	PASS
				RB25#0	6.44	13	PASS
				RB25#13	6	13	PASS
				RB25#25	6.18	13	PASS
				RB50#0	6.41	13	PASS

### 3Appendix\_C: Modulation Characteristics

#### Part I - Test Plots

#### 3.3 For LTE

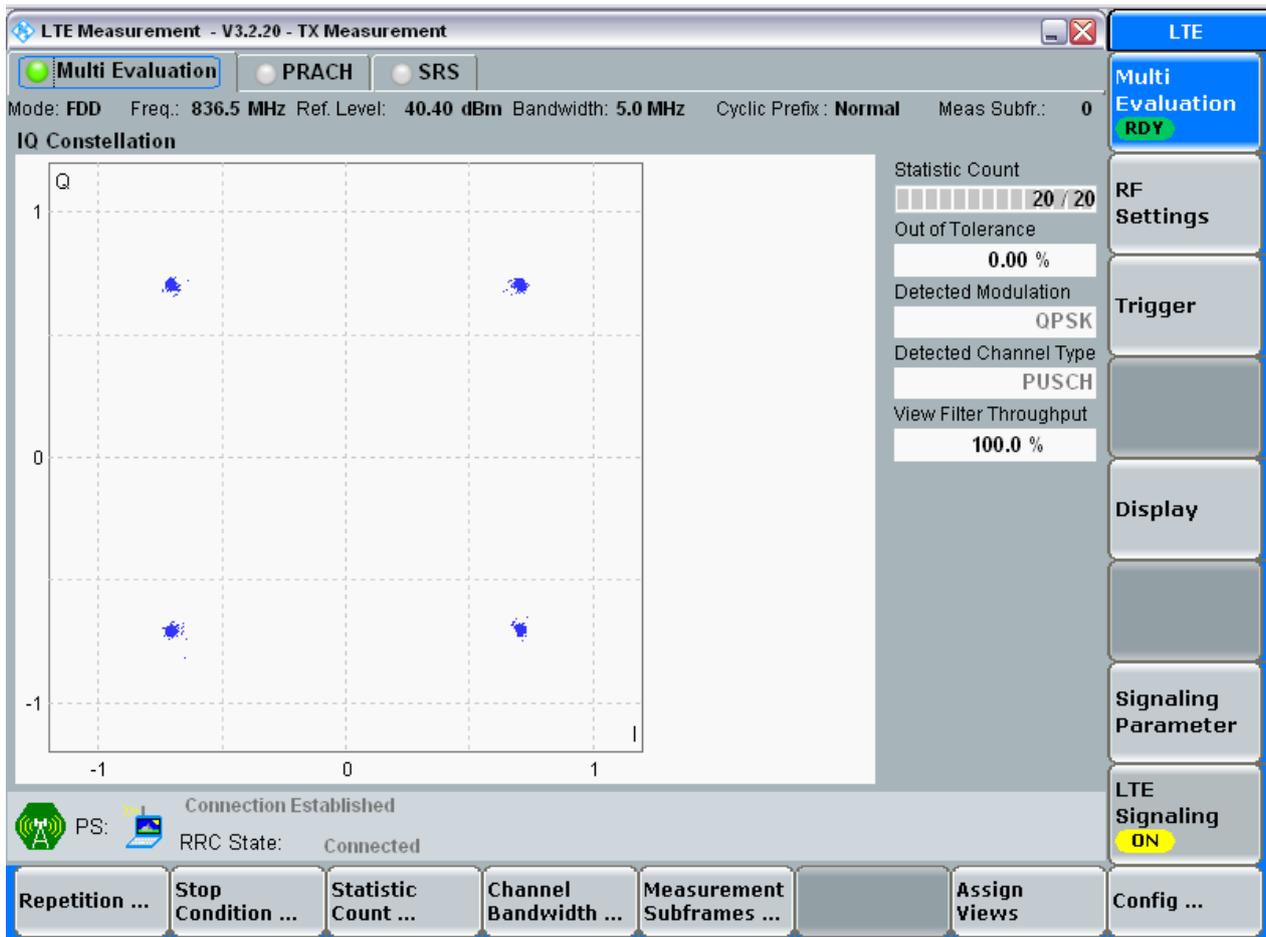
#### 3.3.1 Test Band = BAND5

#### 3.3.1.1 Test Mode = LTE/TM1

#### 3.3.1.1.1 Test Bandwidth = 5

#### 3.3.1.1.1.1 Test Channel = MCH

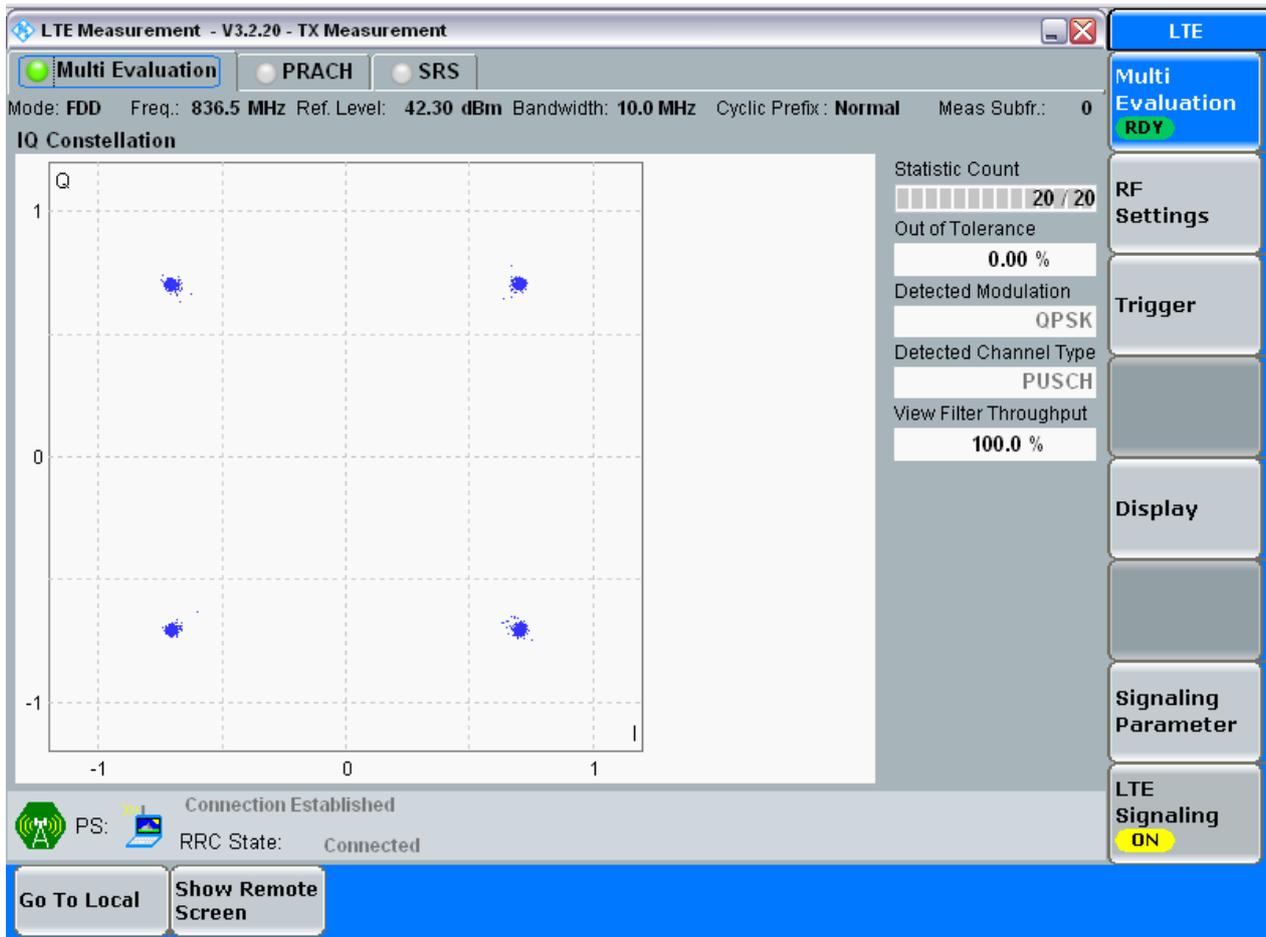
#### 3.3.1.1.1.1.1 Test RB = RB25#0



### 3.3.1.1.2 Test Bandwidth = 10

#### 3.3.1.1.2.1 Test Channel = MCH

##### 3.3.1.1.2.1.1 Test RB = RB50#0

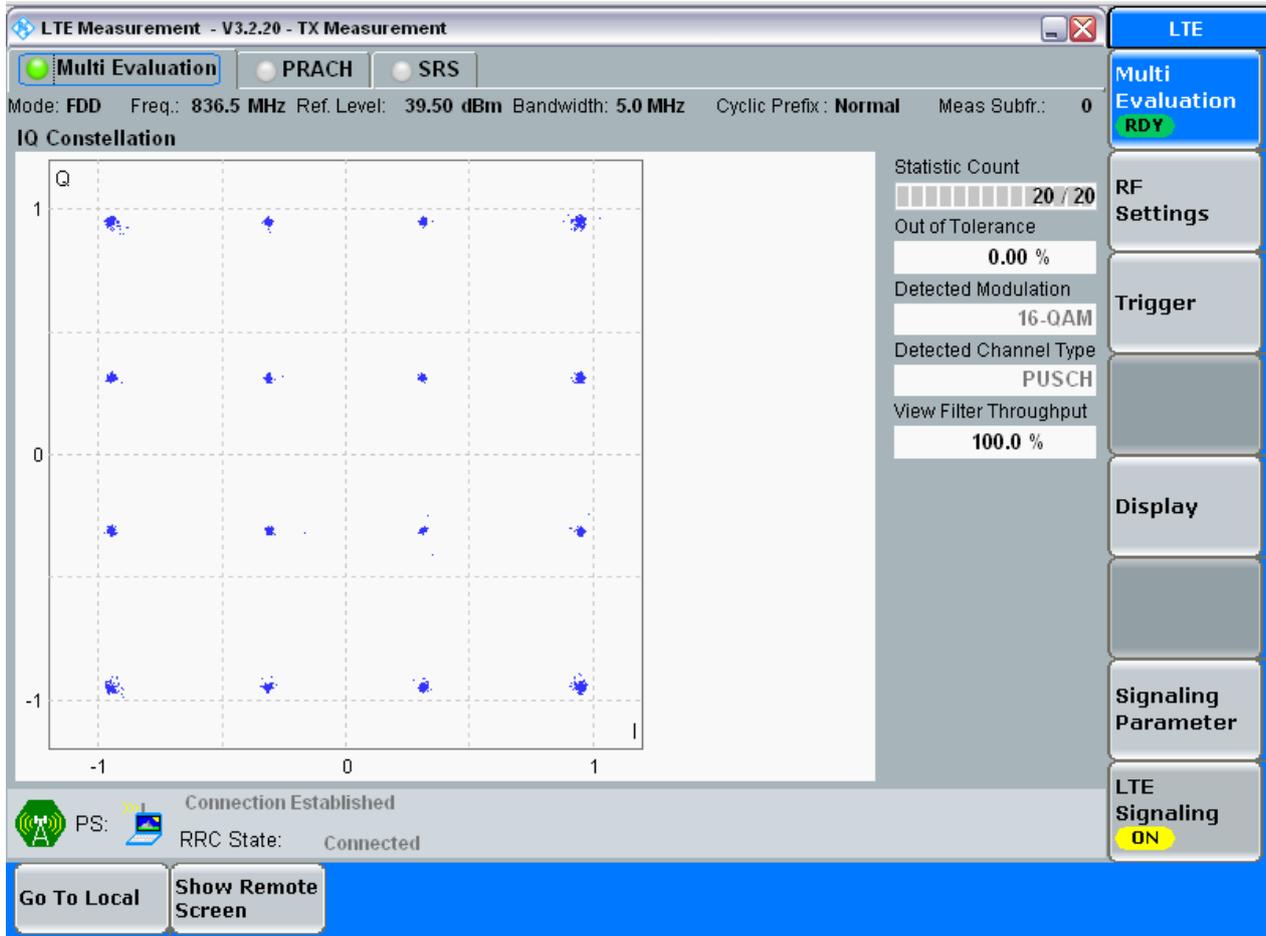


### 3.3.1.2 Test Mode = LTE/TM2

#### 3.3.1.2.1 Test Bandwidth = 5

##### 3.3.1.2.1.1 Test Channel = MCH

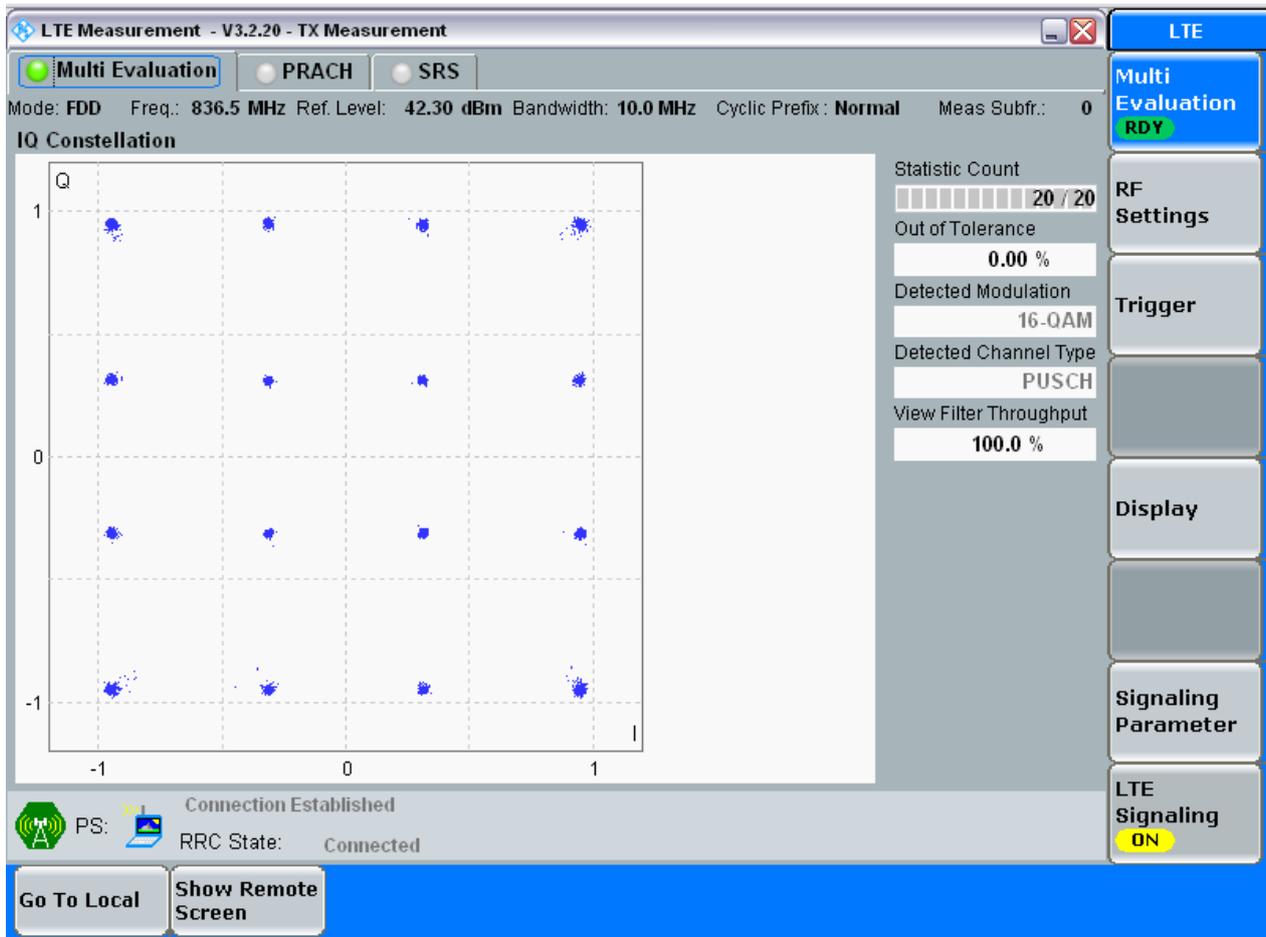
##### 3.3.1.2.1.1.1 Test RB = RB25#0



### 3.3.1.2.2 Test Bandwidth = 10

#### 3.3.1.2.2.1 Test Channel = MCH

##### 3.3.1.2.2.1.1 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
BAND5	LTE/TM1	5	LCH	RB25#0	4.50	4.92	Pass
			MCH	RB25#0	4.50	4.93	Pass
			HCH	RB25#0	4.49	4.92	Pass
		10	LCH	RB50#0	8.99	9.72	Pass
			MCH	RB50#0	8.96	9.55	Pass
			HCH	RB50#0	9.00	9.69	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	5.22	Pass
			MCH	RB25#0	4.51	5.20	Pass
			HCH	RB25#0	4.51	5.23	Pass
		10	LCH	RB50#0	9.02	9.99	Pass
			MCH	RB50#0	9.01	9.34	Pass
			HCH	RB50#0	9.00	9.63	Pass

Part II - Test Plots

4.3 For LTE

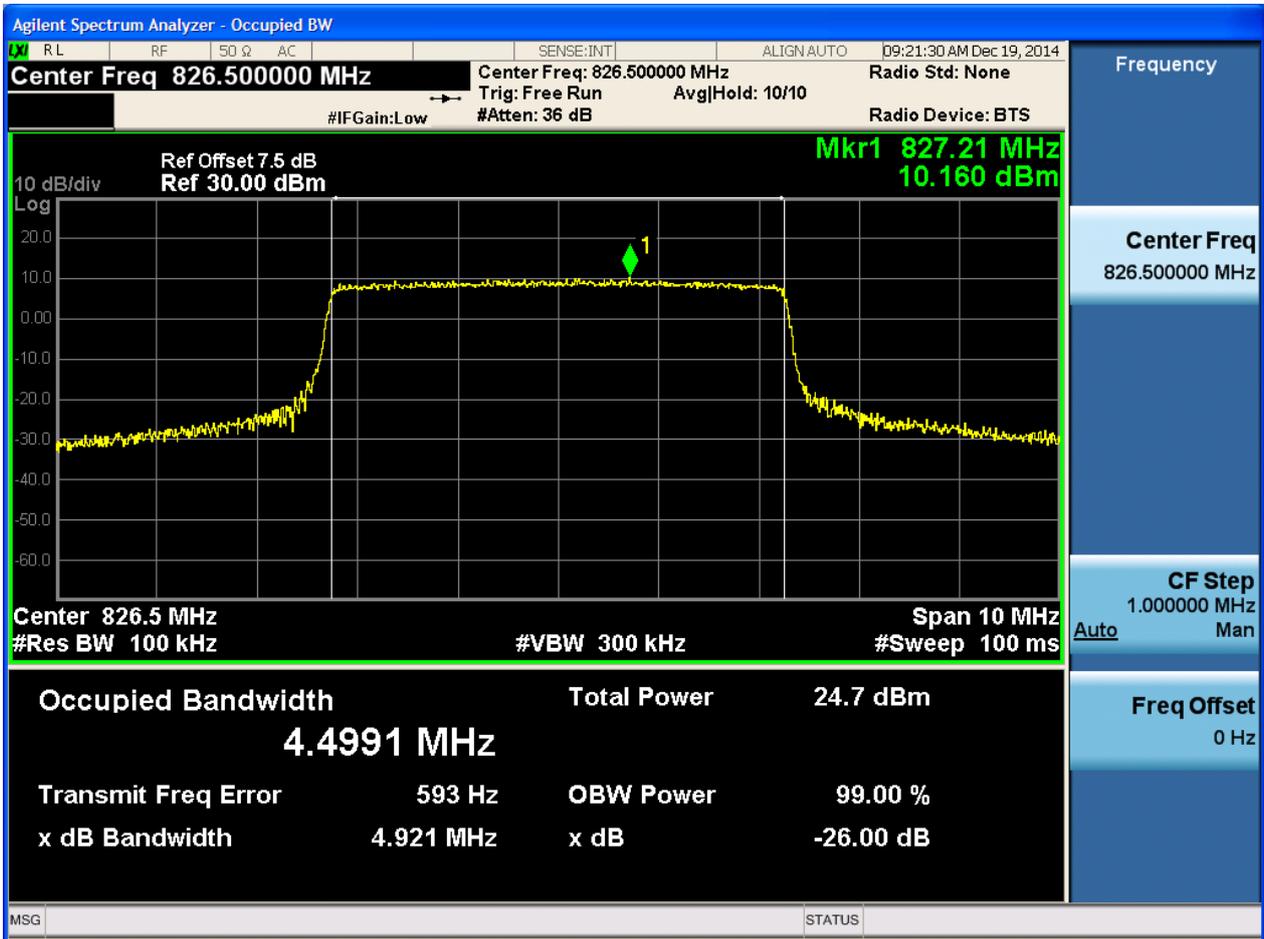
4.3.1 Test Band = BAND5

4.3.1.1 Test Mode = LTE/TM1

4.3.1.1.1 Test Bandwidth = 5

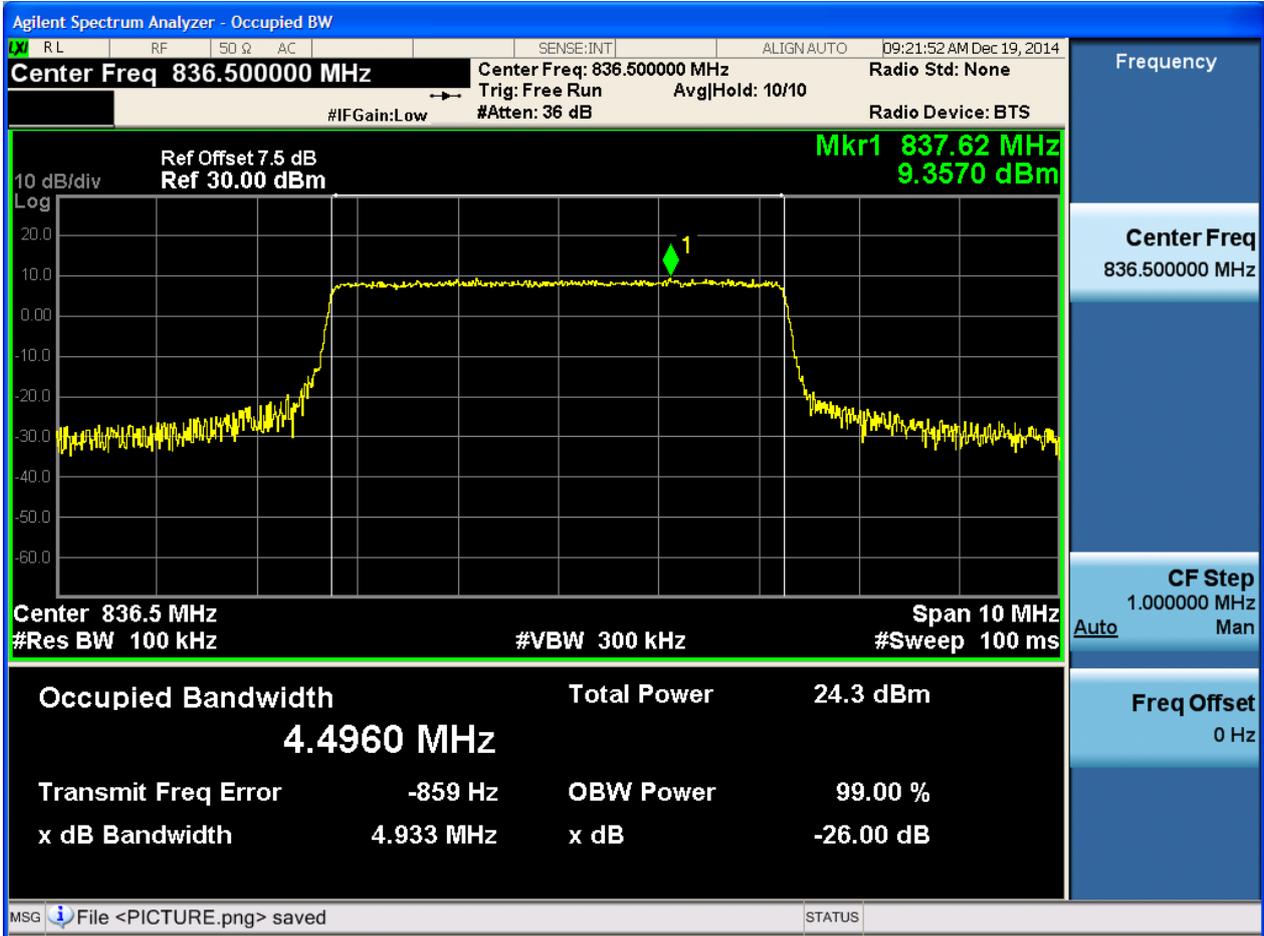
4.3.1.1.1.1 Test Channel = LCH

4.3.1.1.1.1.1 Test RB = RB25#0



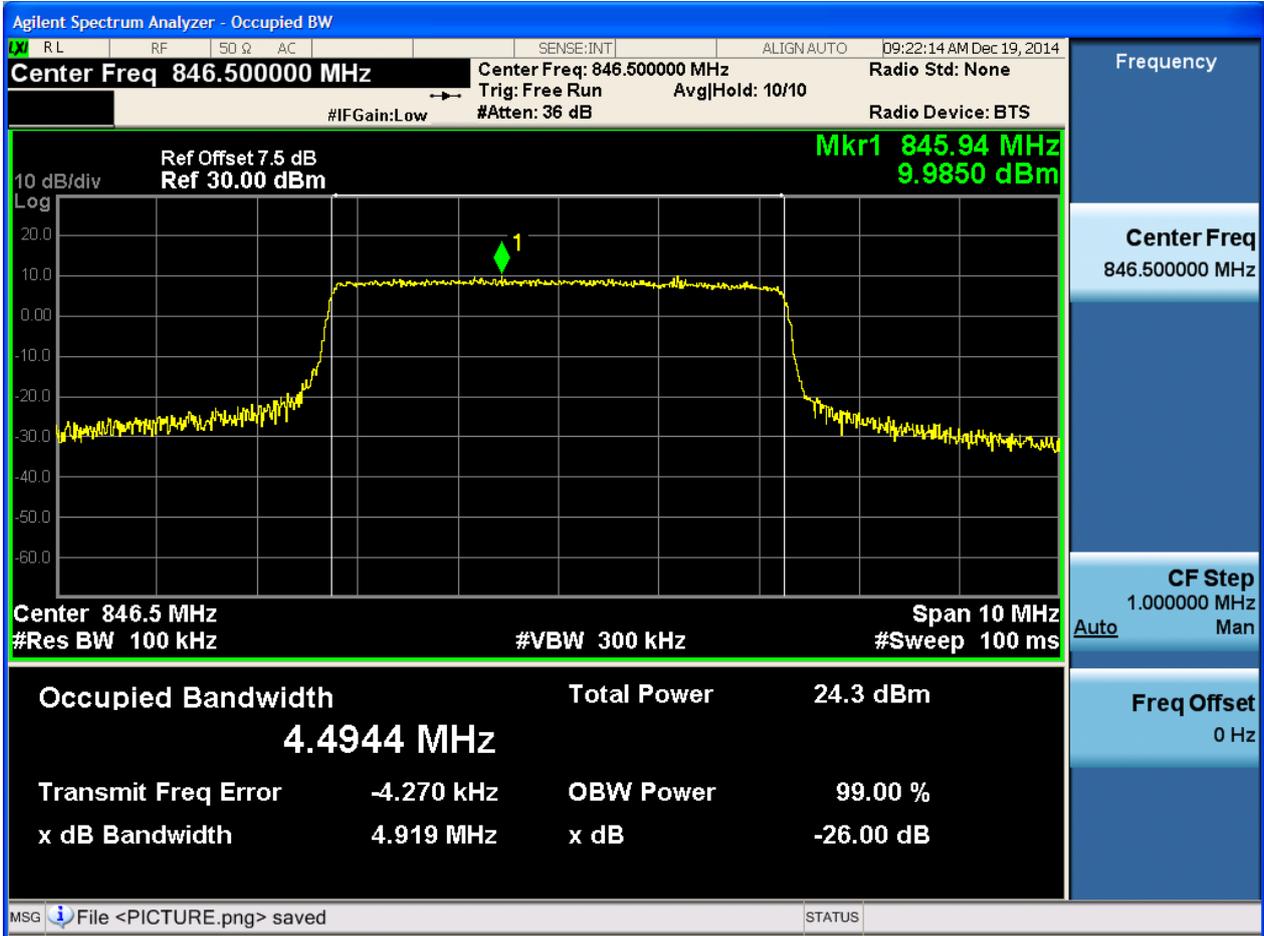
4.3.1.1.1.2 Test Channel = MCH

4.3.1.1.1.2.1 Test RB = RB25#0



4.3.1.1.1.3 Test Channel = HCH

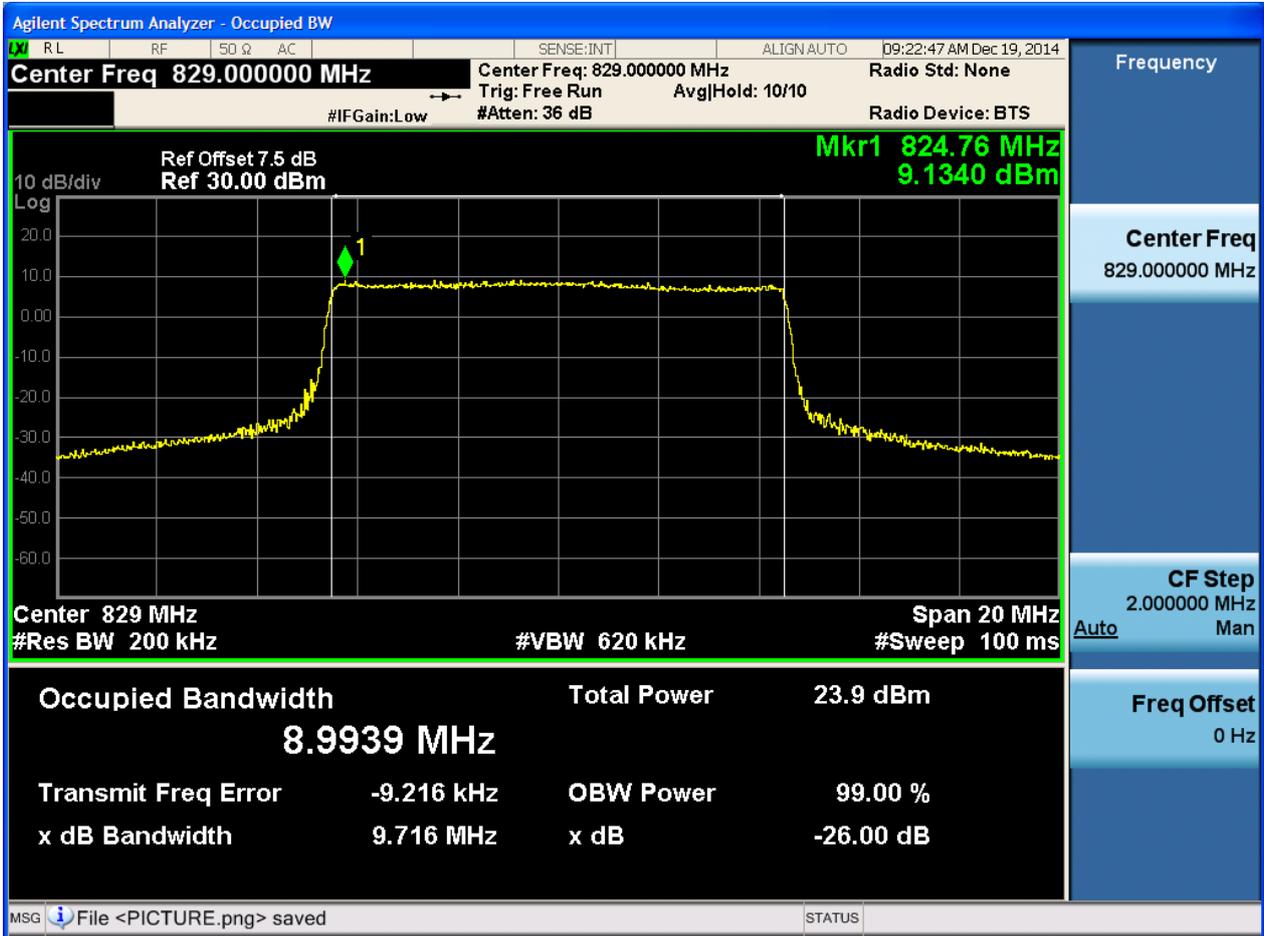
4.3.1.1.1.3.1 Test RB = RB25#0



4.3.1.1.2 Test Bandwidth = 10

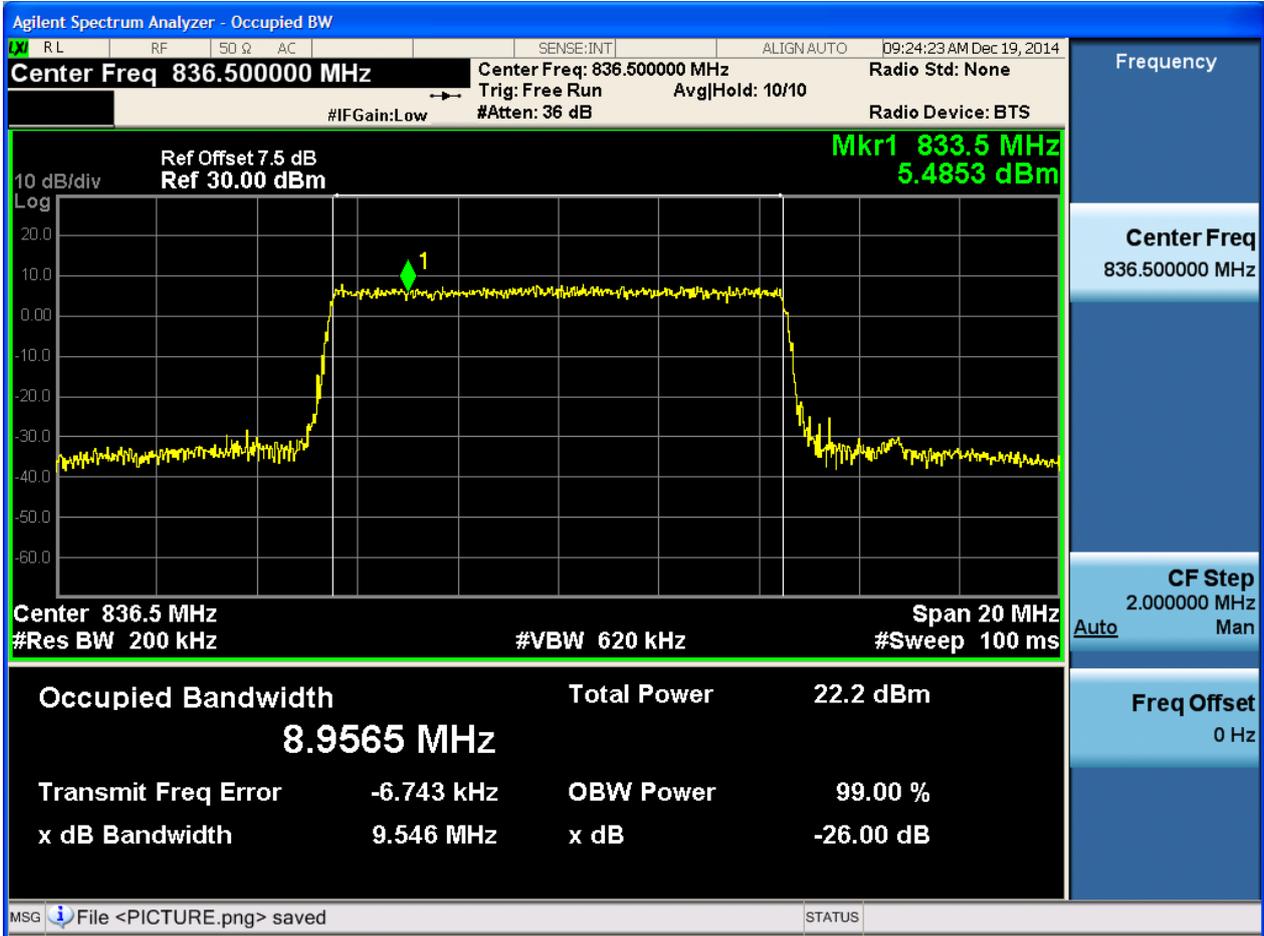
4.3.1.1.2.1 Test Channel = LCH

4.3.1.1.2.1.1 Test RB = RB50#0



4.3.1.1.2.2 Test Channel = MCH

4.3.1.1.2.2.1 Test RB = RB50#0



4.3.1.1.2.3 Test Channel = HCH

4.3.1.1.2.3.1 Test RB = RB50#0

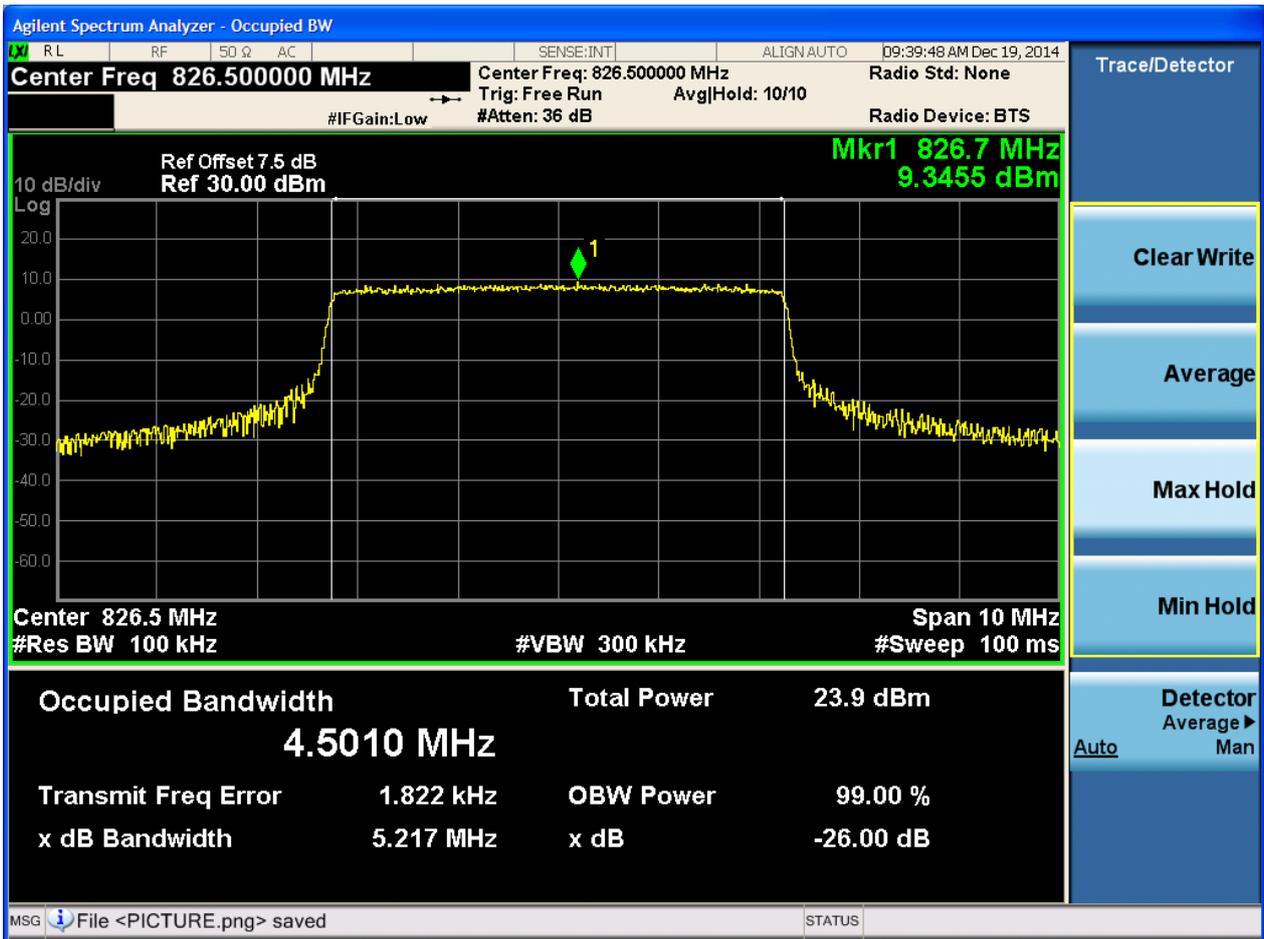


4.3.1.2 Test Mode = LTE/TM2

4.3.1.2.1 Test Bandwidth = 5

4.3.1.2.1.1 Test Channel = LCH

4.3.1.2.1.1.1 Test RB = RB25#0



4.3.1.2.1.2 Test Channel = MCH

4.3.1.2.1.2.1 Test RB = RB25#0



4.3.1.2.1.3 Test Channel = HCH

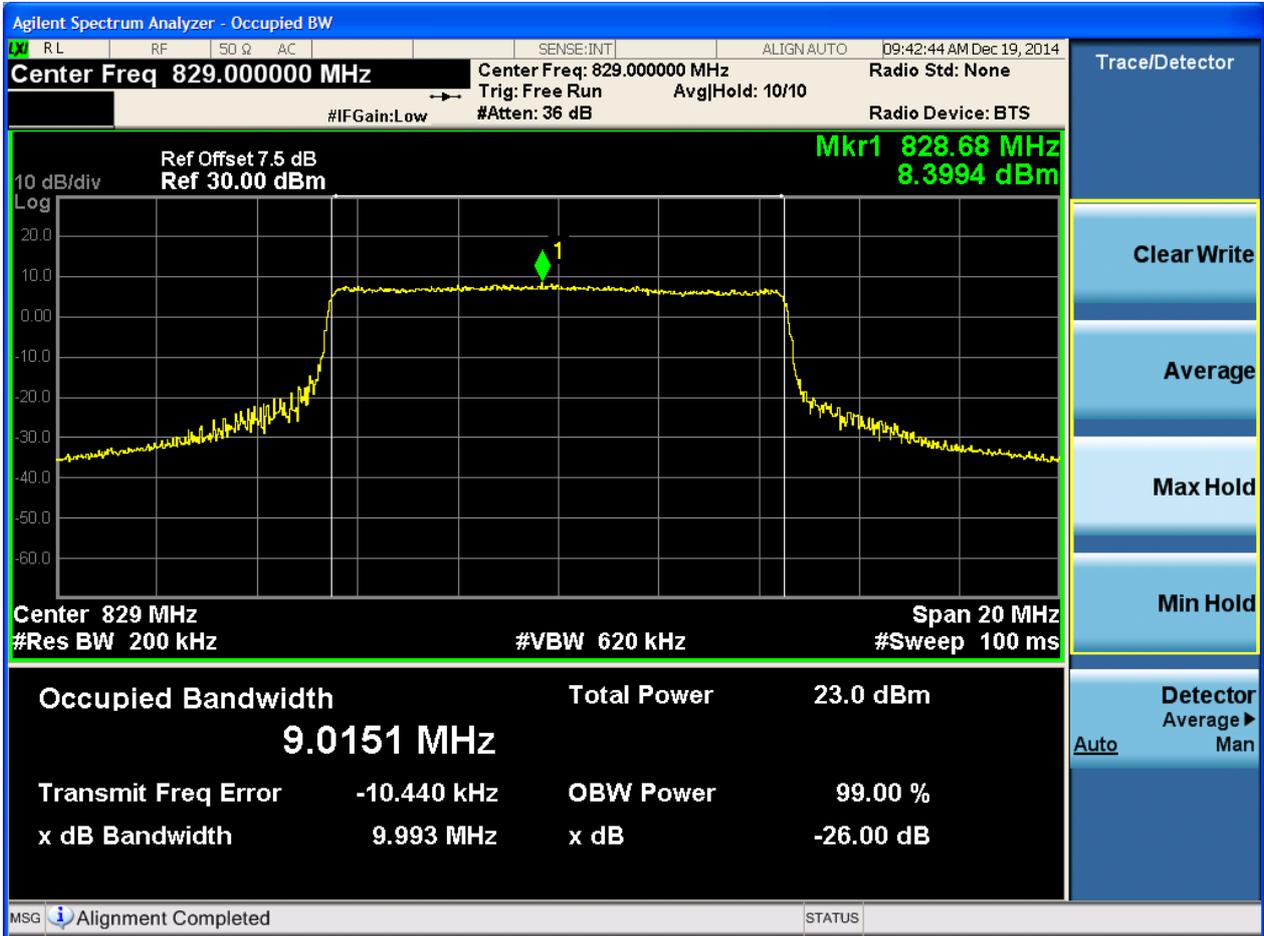
4.3.1.2.1.3.1 Test RB = RB25#0



4.3.1.2.2 Test Bandwidth = 10

4.3.1.2.2.1 Test Channel = LCH

4.3.1.2.2.1.1 Test RB = RB50#0



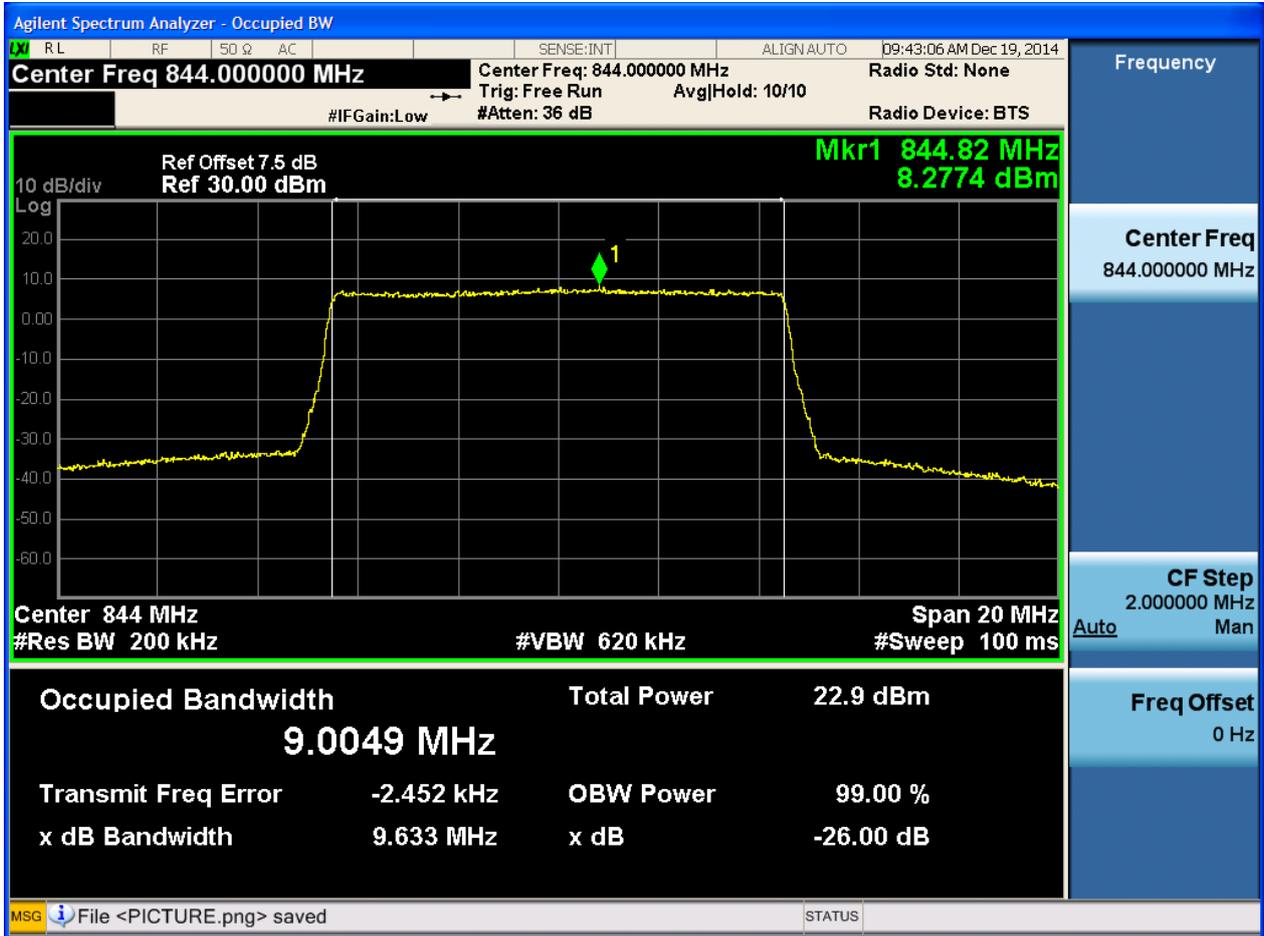
4.3.1.2.2.2 Test Channel = MCH

4.3.1.2.2.1 Test RB = RB50#0



4.3.1.2.2.3 Test Channel = HCH

4.3.1.2.2.3.1 Test RB = RB50#0



## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.3 For LTE

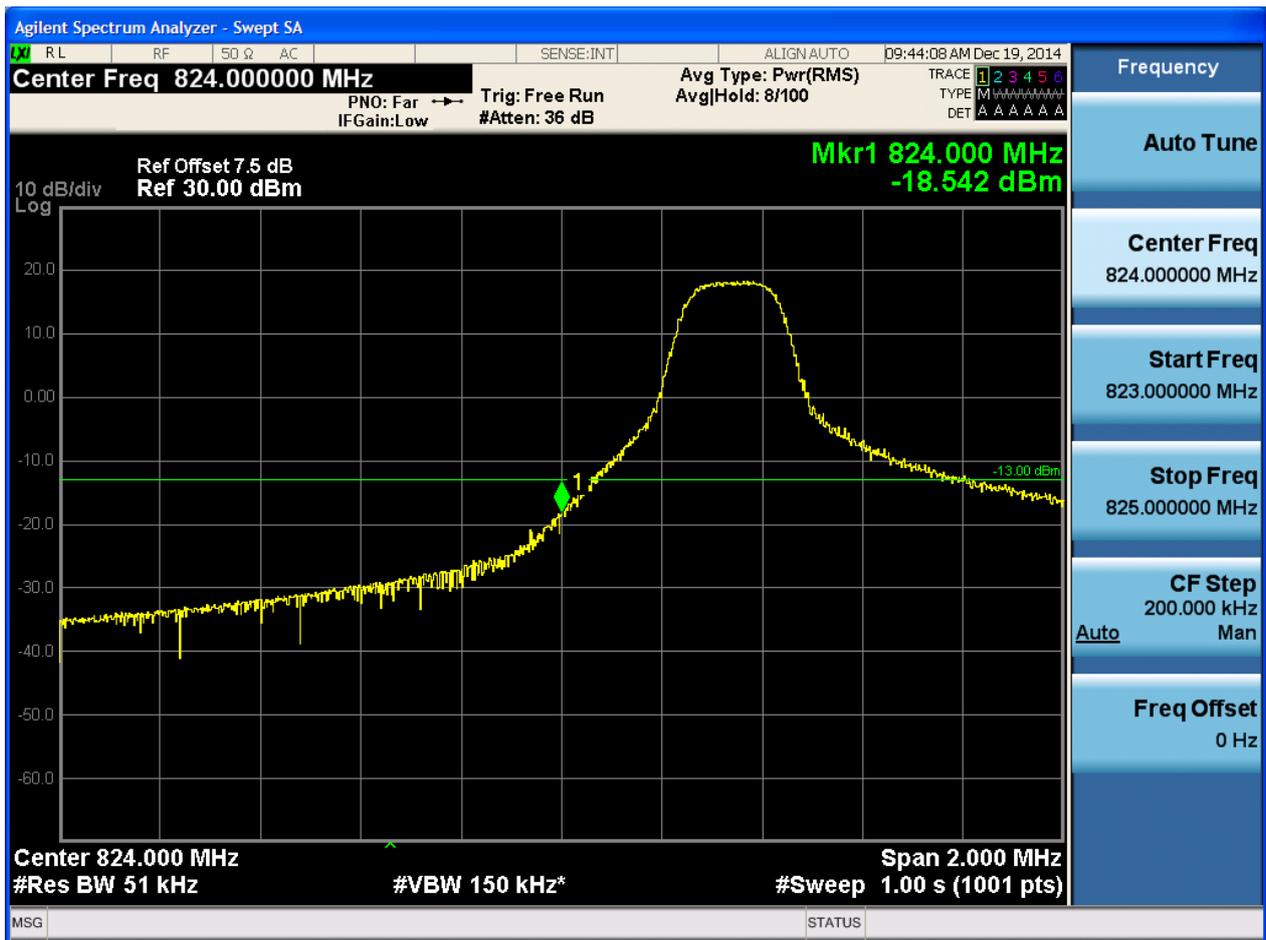
##### 5.3.1 Test Band = BAND5

##### 5.3.1.1 Test Mode = LTE/TM1

##### 5.3.1.1.1 Test Bandwidth = 5

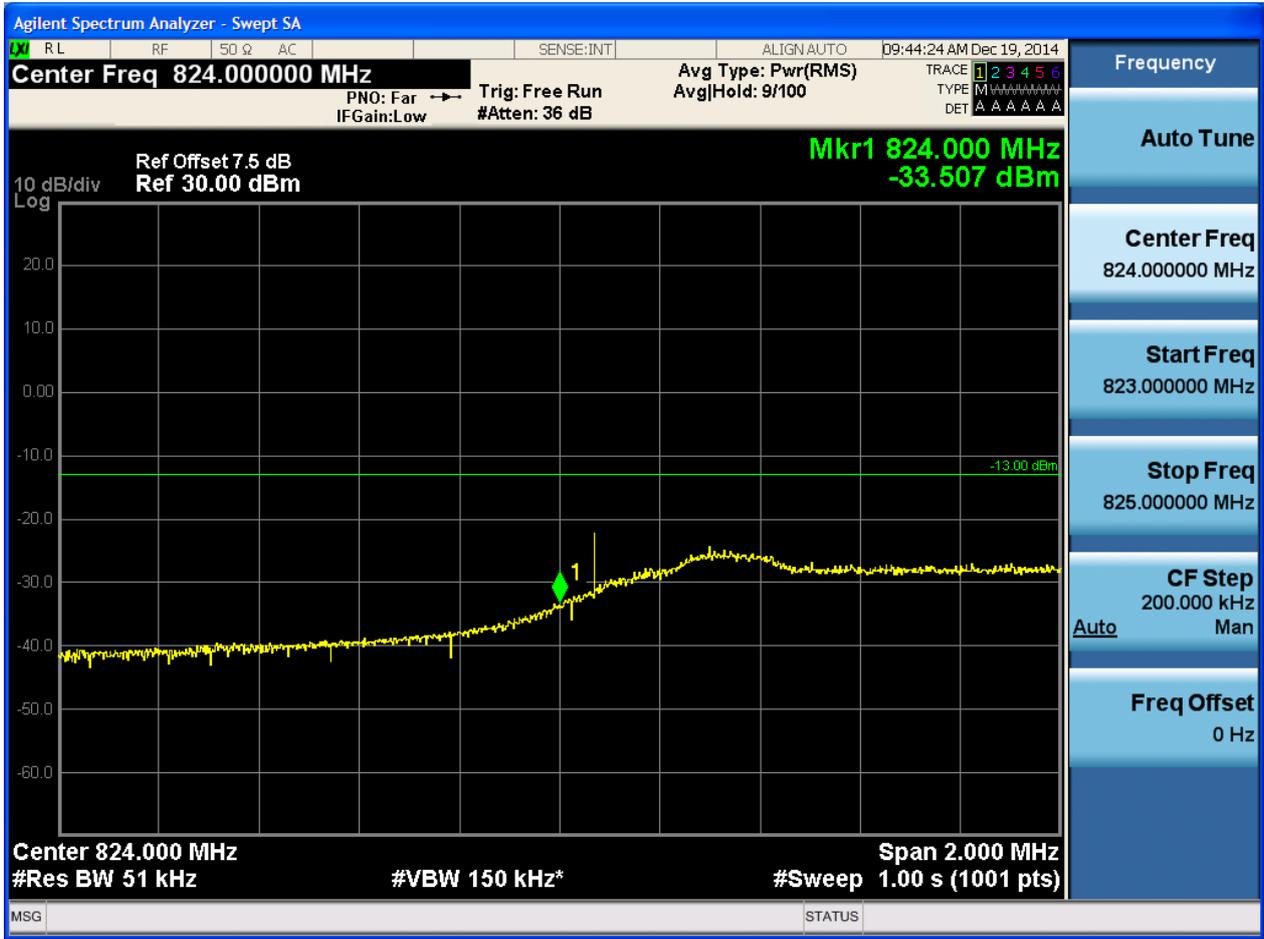
##### 5.3.1.1.1.1 Test Channel = LCH

##### 5.3.1.1.1.1.1 Test RB = RB1#0



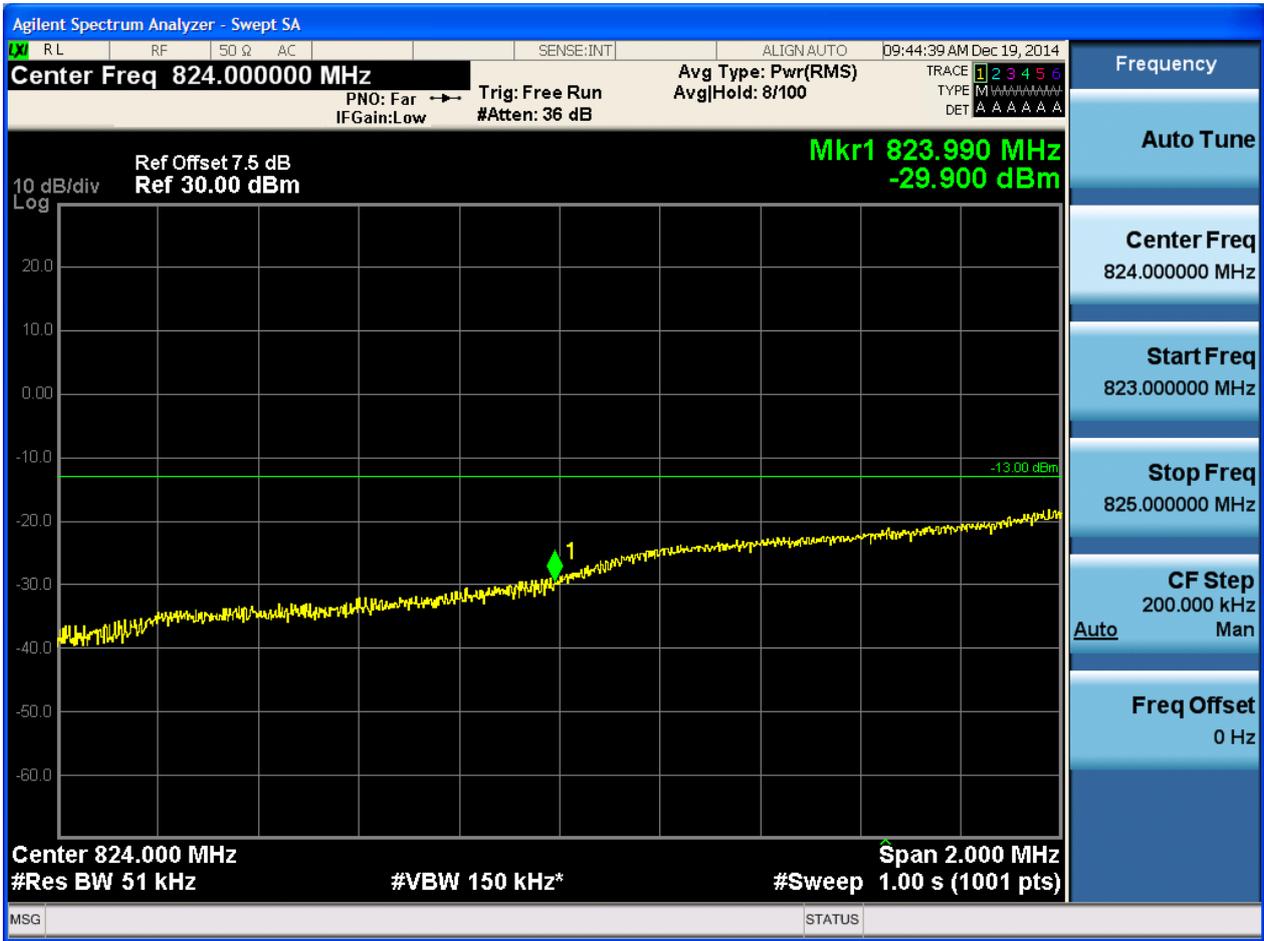


5.3.1.1.1.2 Test RB = RB1#24

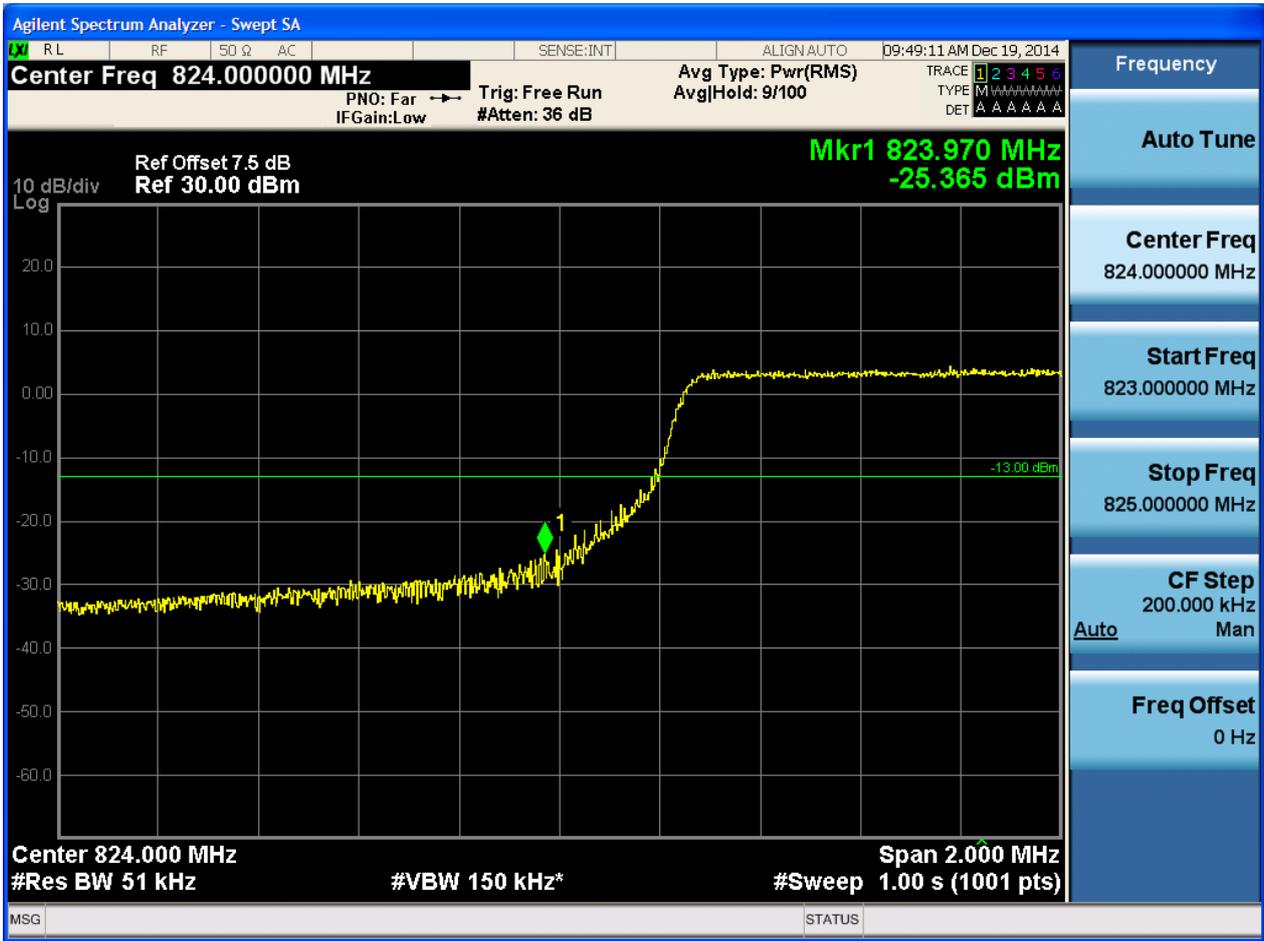




5.3.1.1.1.3 Test RB = RB12#6



5.3.1.1.1.4 Test RB = RB25#0



5.3.1.1.1.2 Test Channel = HCH

5.3.1.1.1.2.1 Test RB = RB1#0



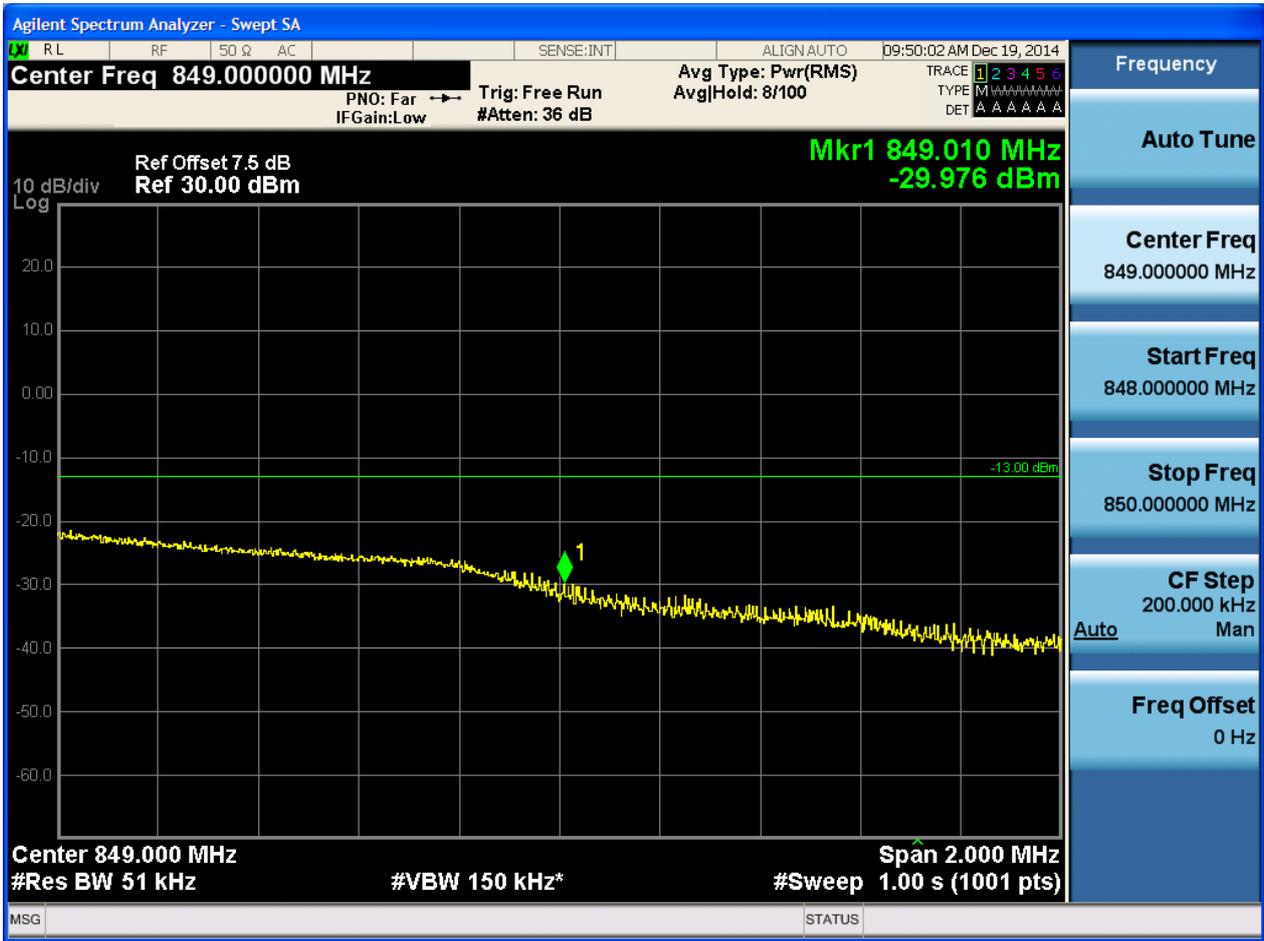


5.3.1.1.1.2.2 Test RB = RB1#24

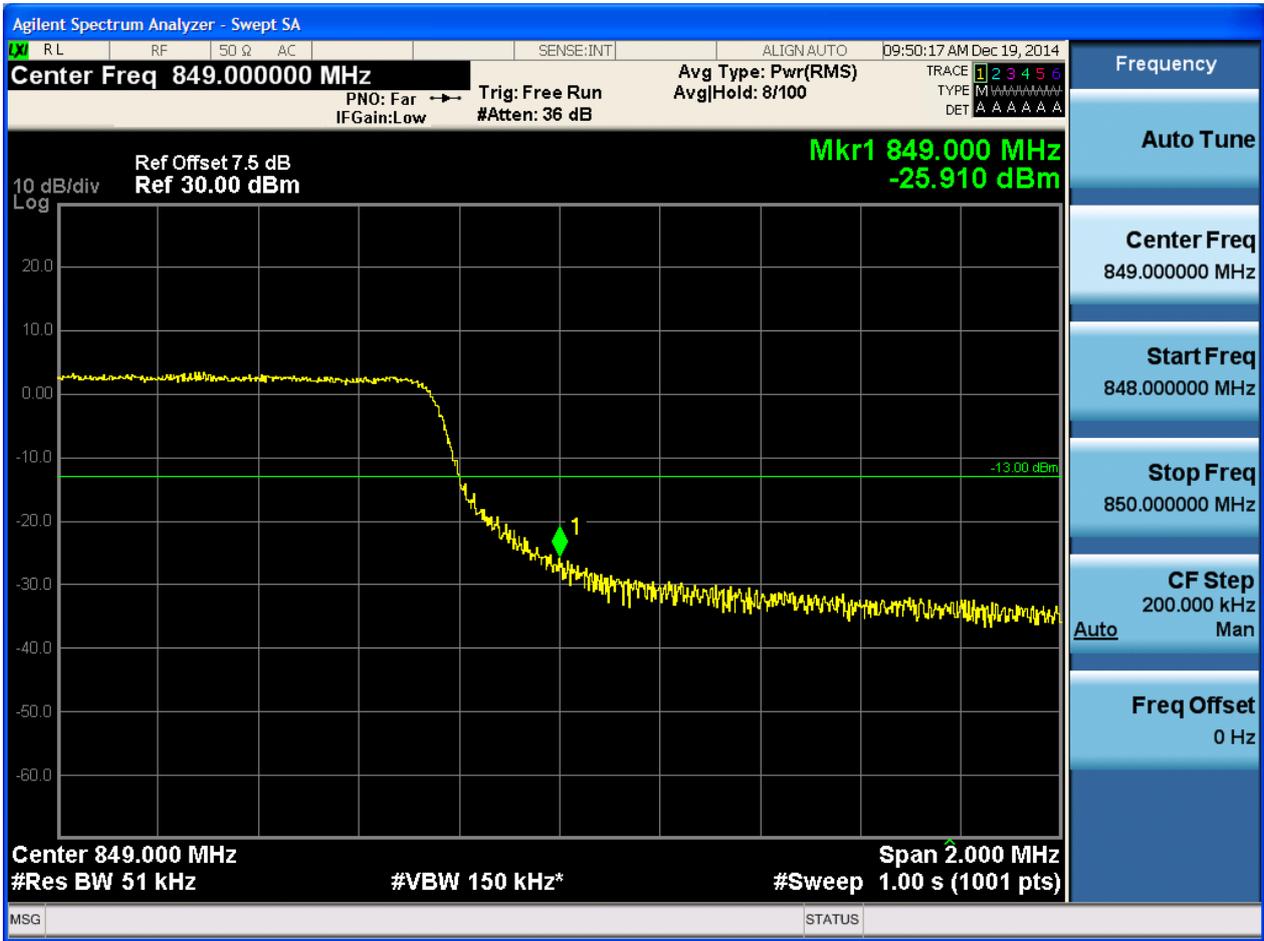




5.3.1.1.1.2.3 Test RB = RB12#6



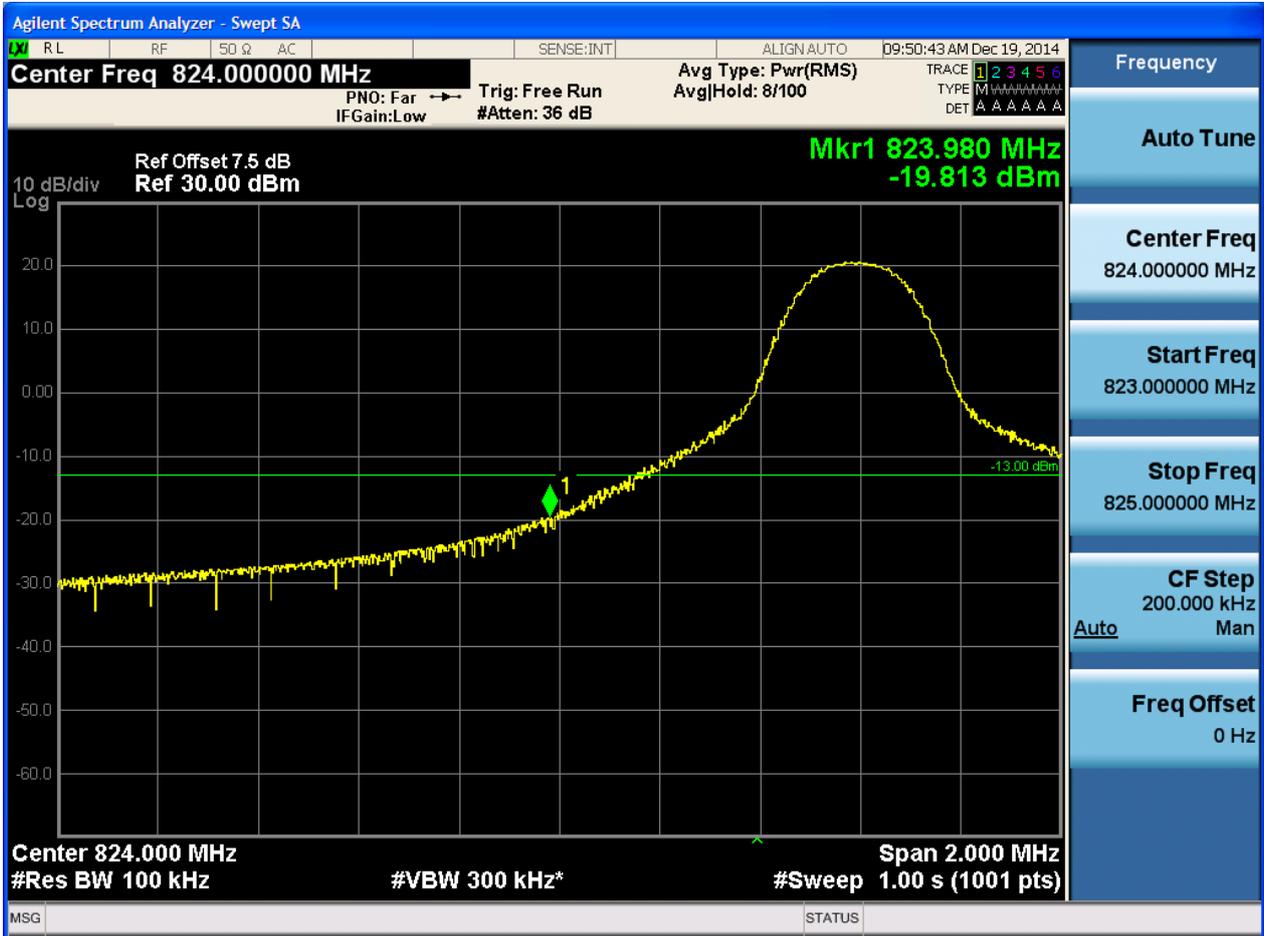
5.3.1.1.1.2.4 Test RB = RB25#0



5.3.1.1.2 Test Bandwidth = 10

5.3.1.1.2.1 Test Channel = LCH

5.3.1.1.2.1.1 Test RB = RB1#0

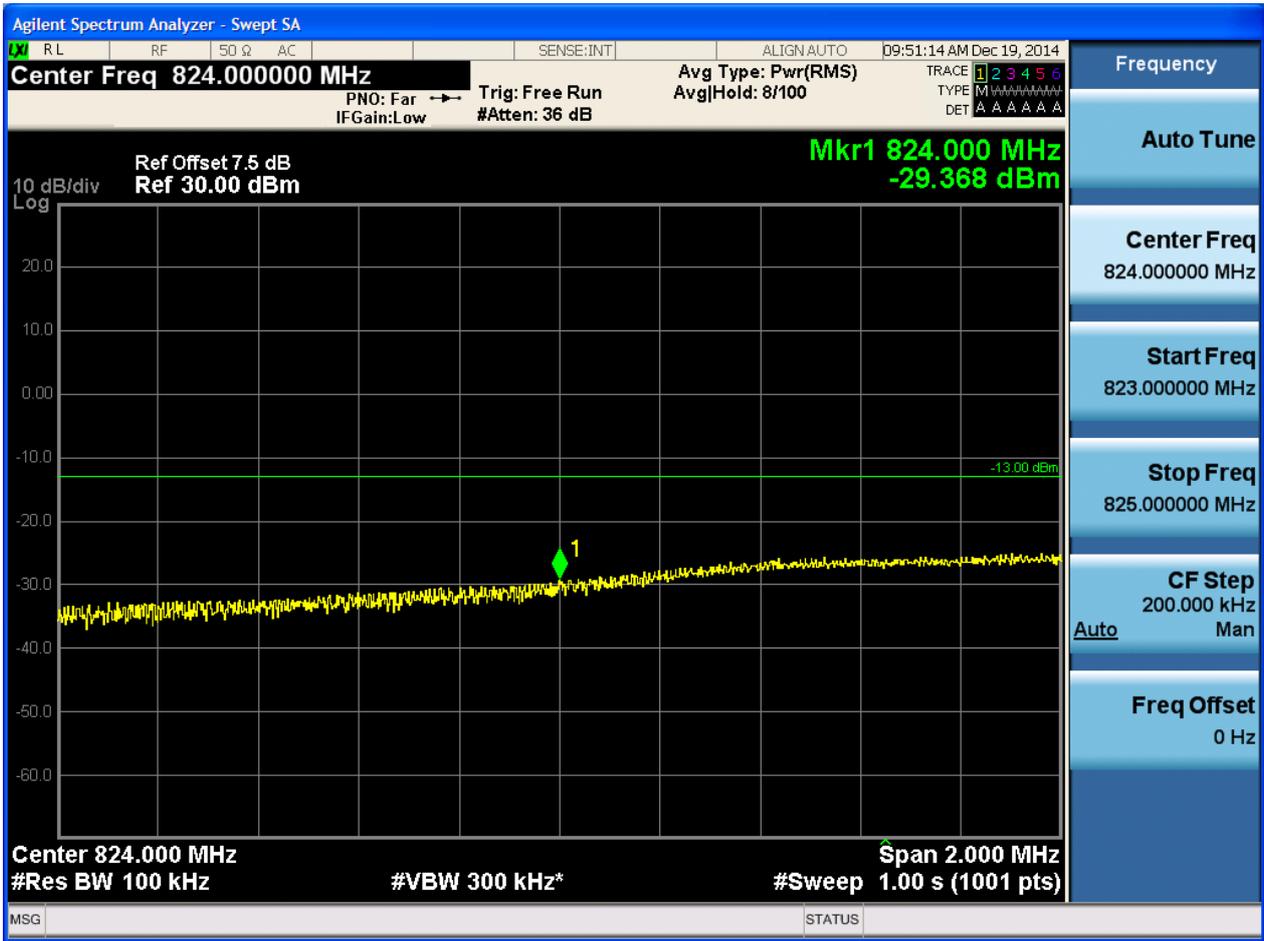


5.3.1.1.2.1.2 Test RB = RB1#49





5.3.1.1.2.1.3 Test RB = RB25#13



5.3.1.1.2.1.4 Test RB = RB50#0





5.3.1.1.2.2 Test Channel = HCH

5.3.1.1.2.2.1 Test RB = RB1#0



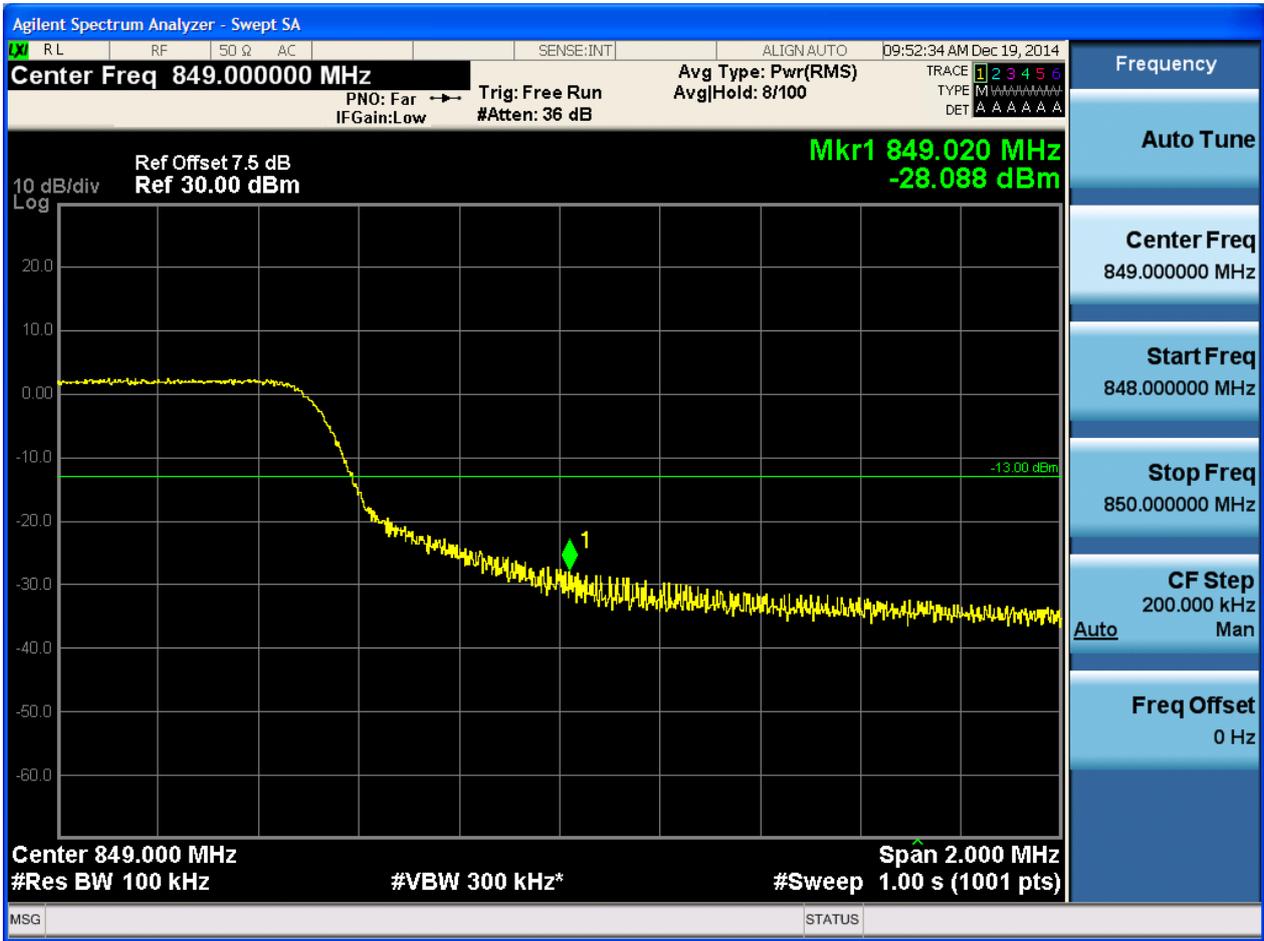


5.3.1.1.2.2.2 Test RB = RB1#49





5.3.1.1.2.2.4 Test RB = RB50#0



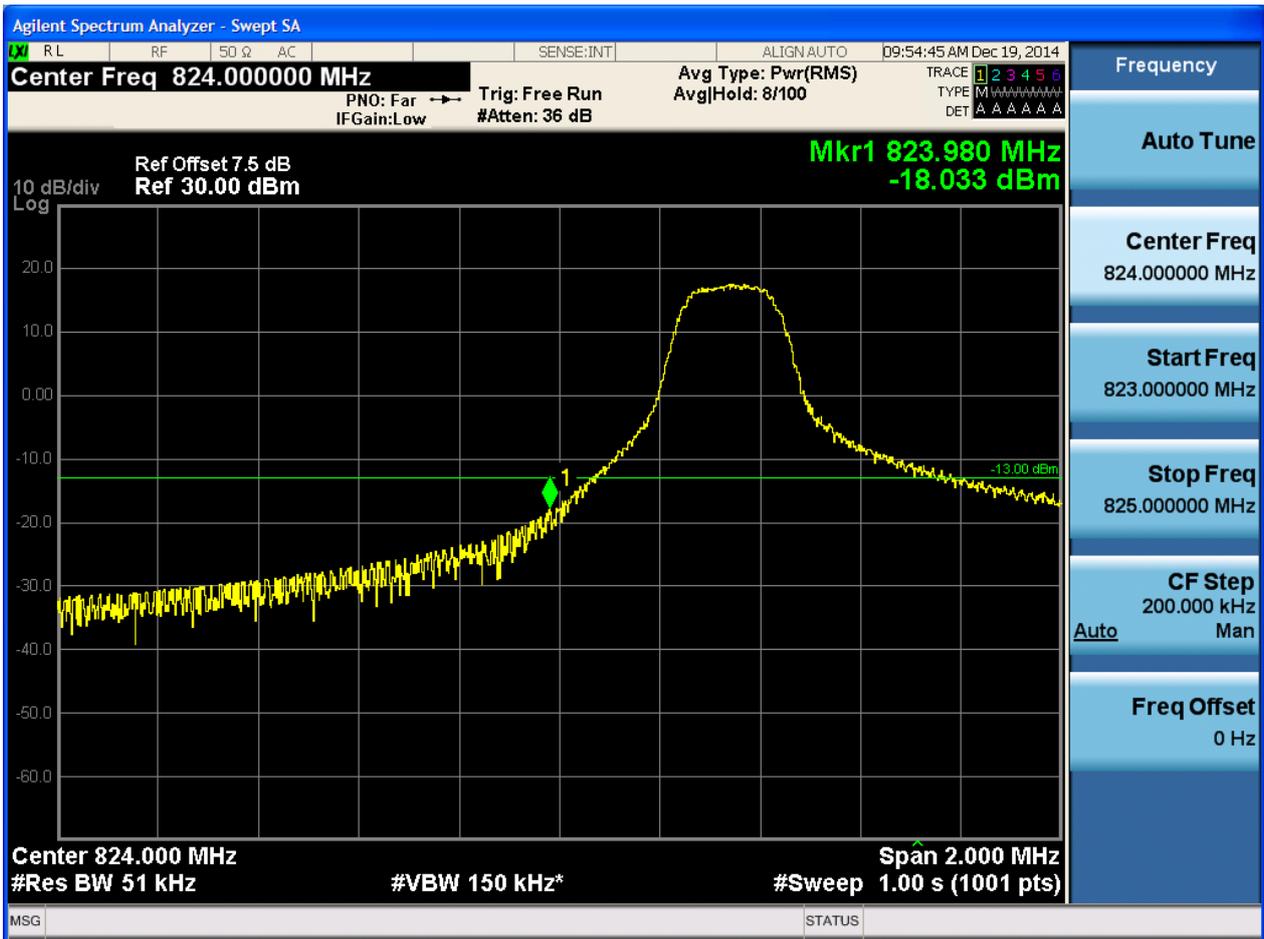


5.3.1.2 Test Mode = LTE/TM2

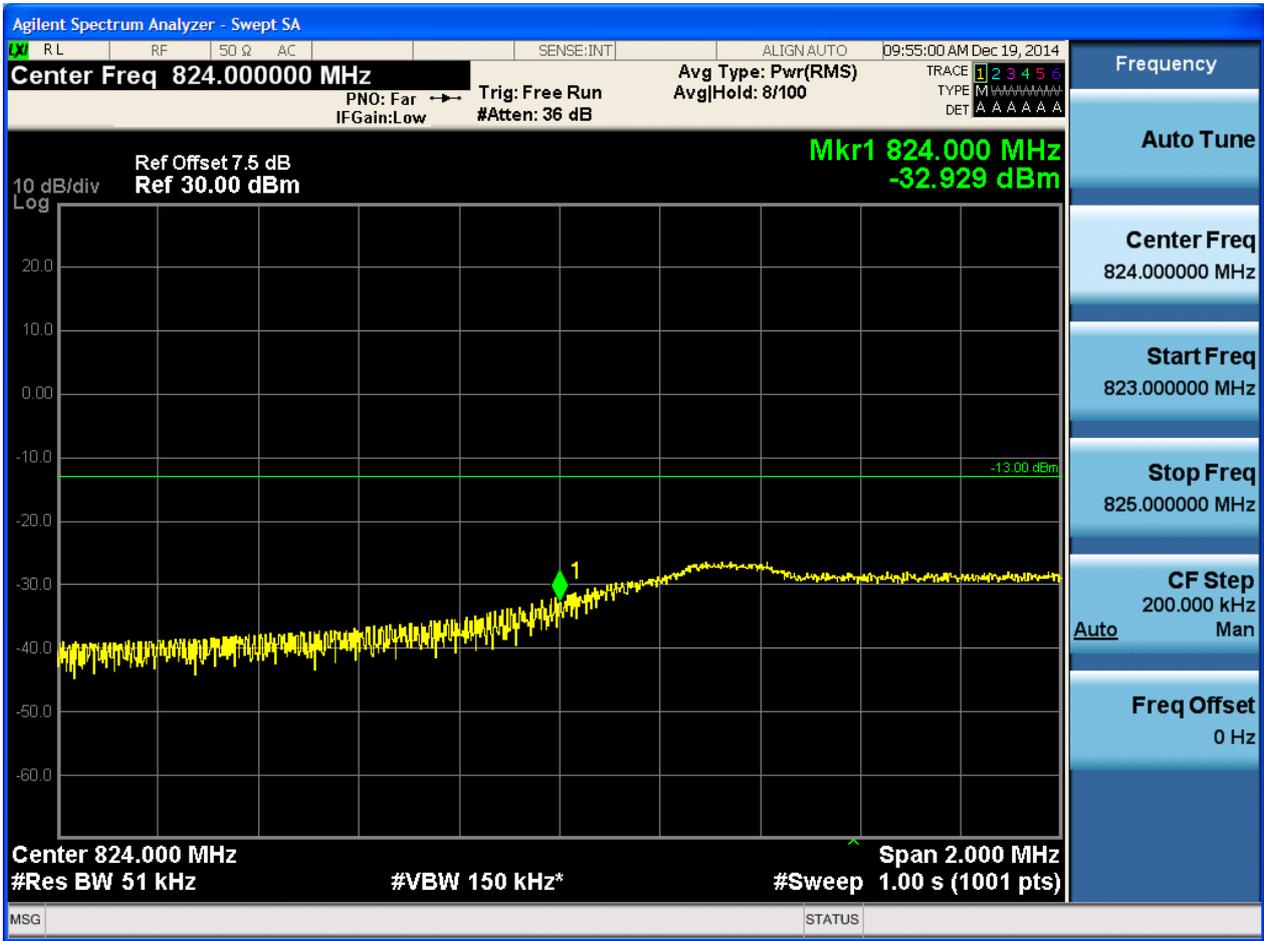
5.3.1.2.1 Test Bandwidth = 5

5.3.1.2.1.1 Test Channel = LCH

5.3.1.2.1.1.1 Test RB = RB1#0

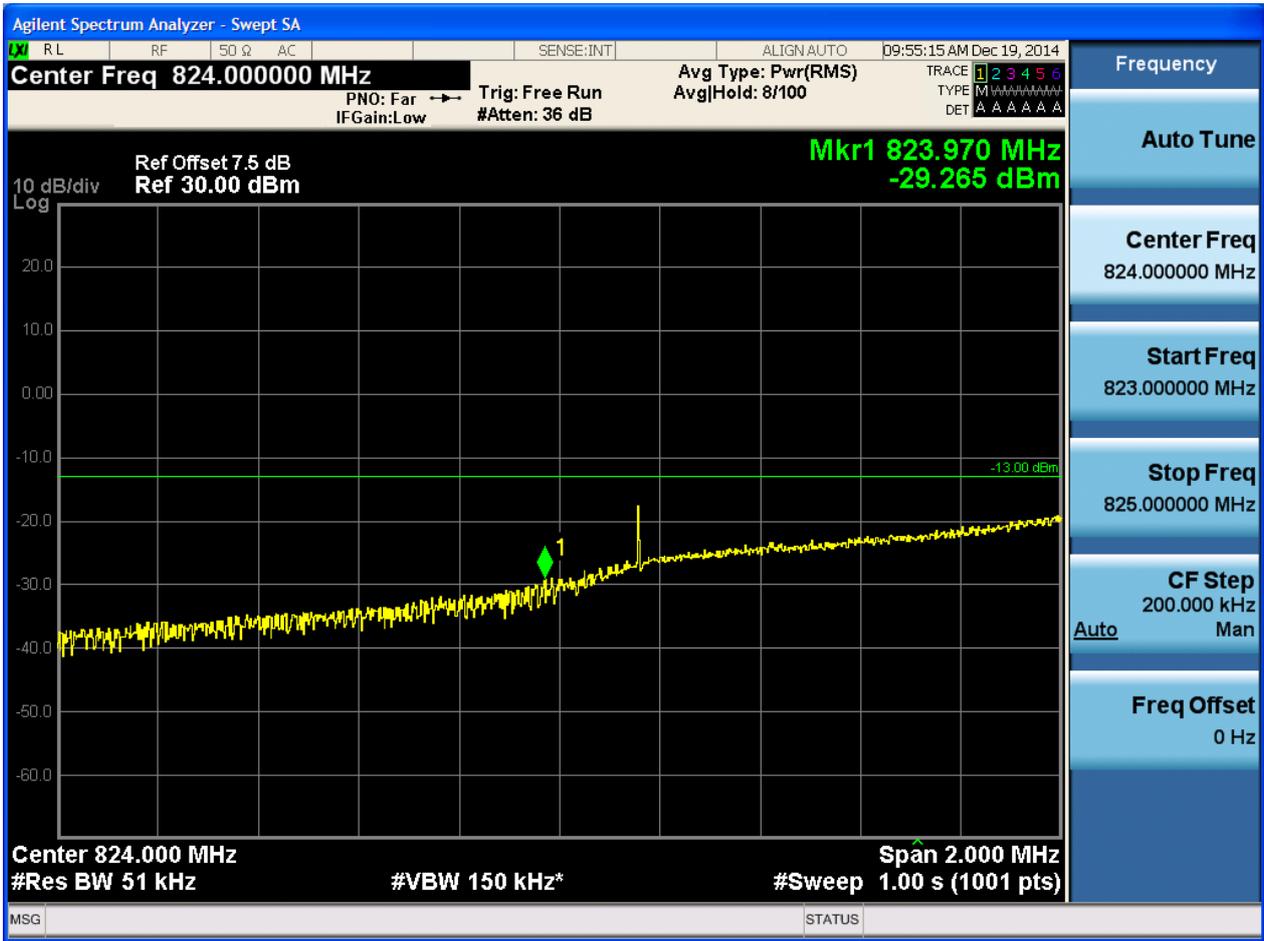


5.3.1.2.1.1.2 Test RB = RB1#24



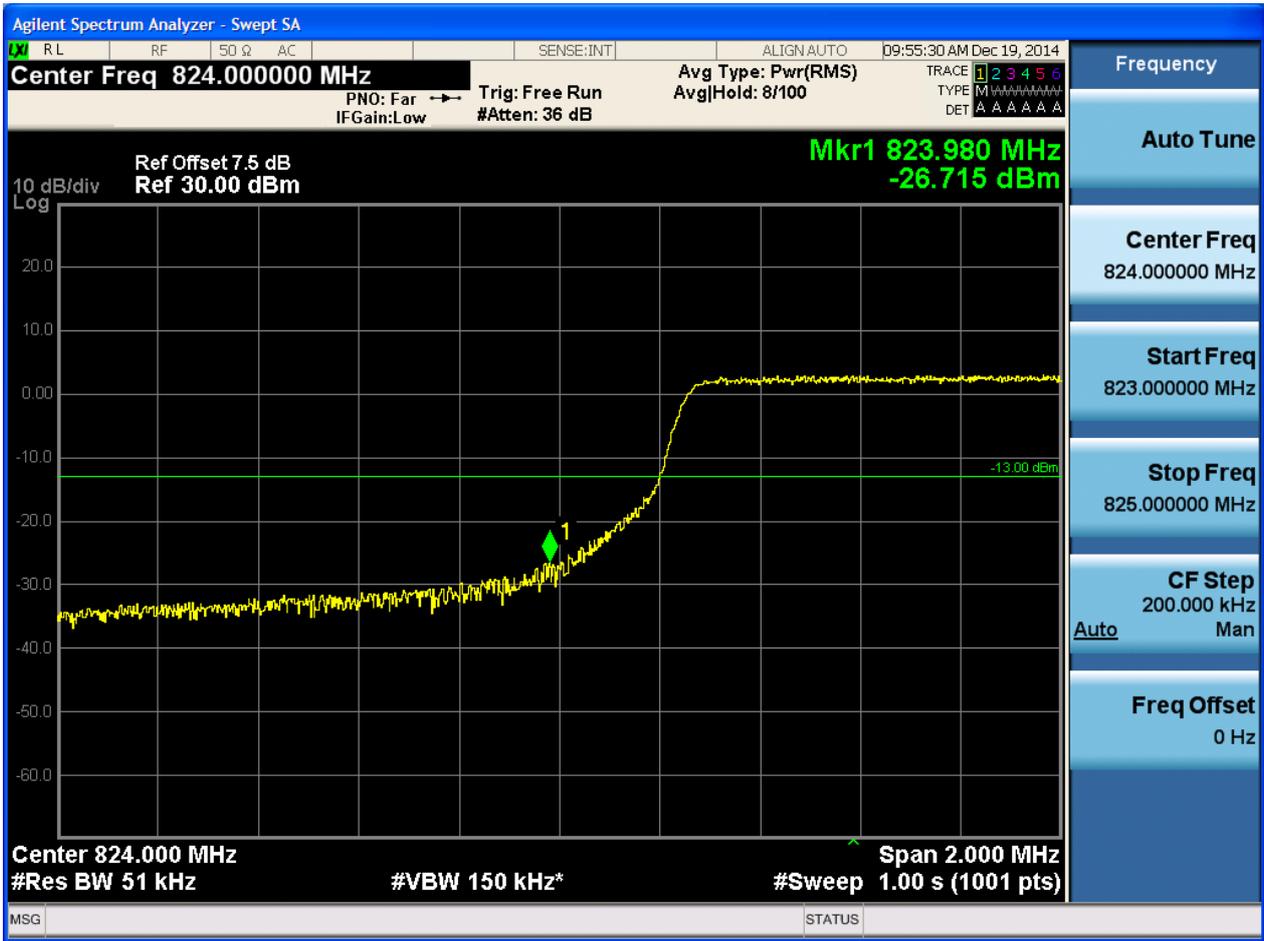


5.3.1.2.1.1.3 Test RB = RB12#6





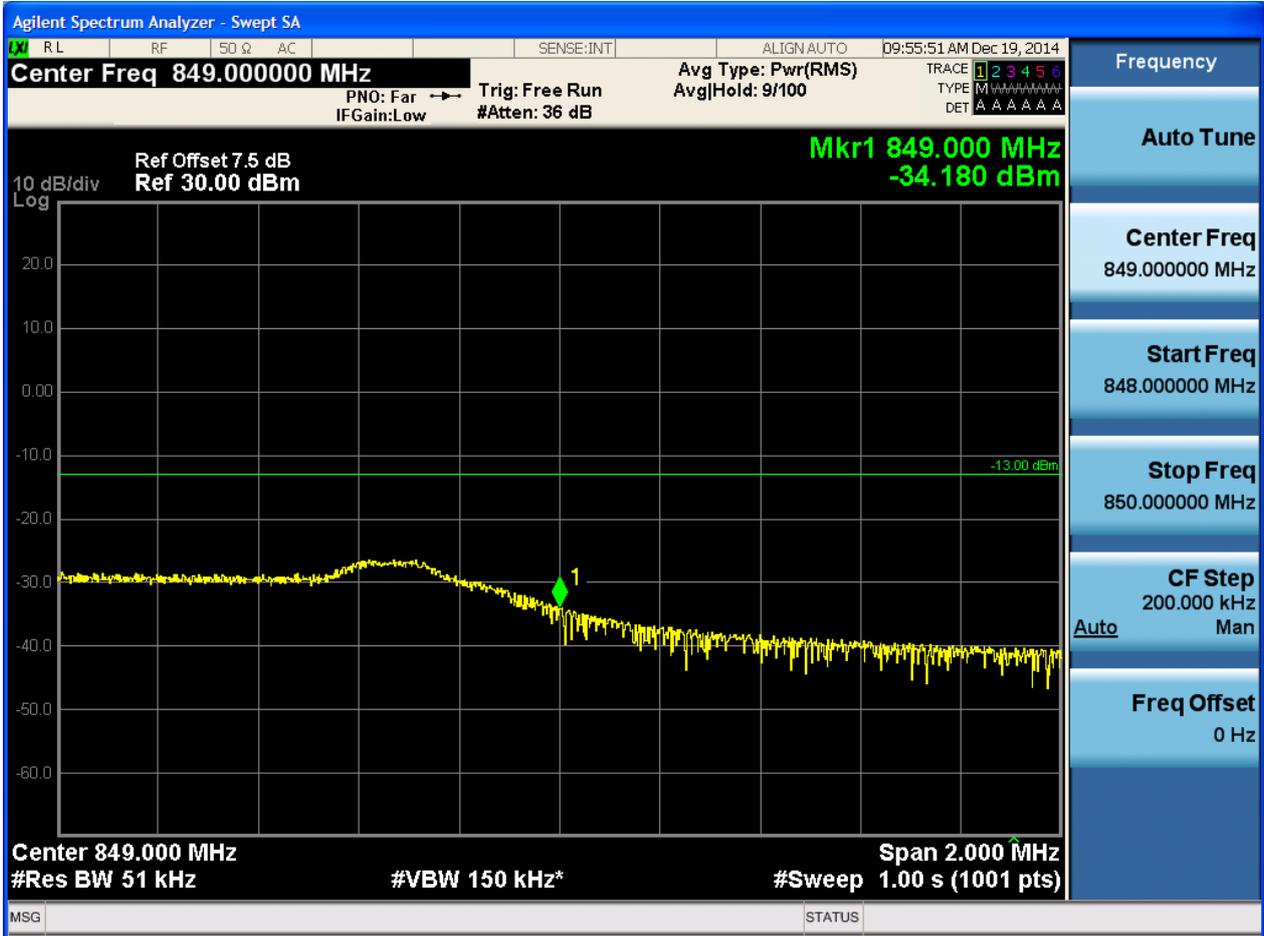
5.3.1.2.1.1.4 Test RB = RB25#0



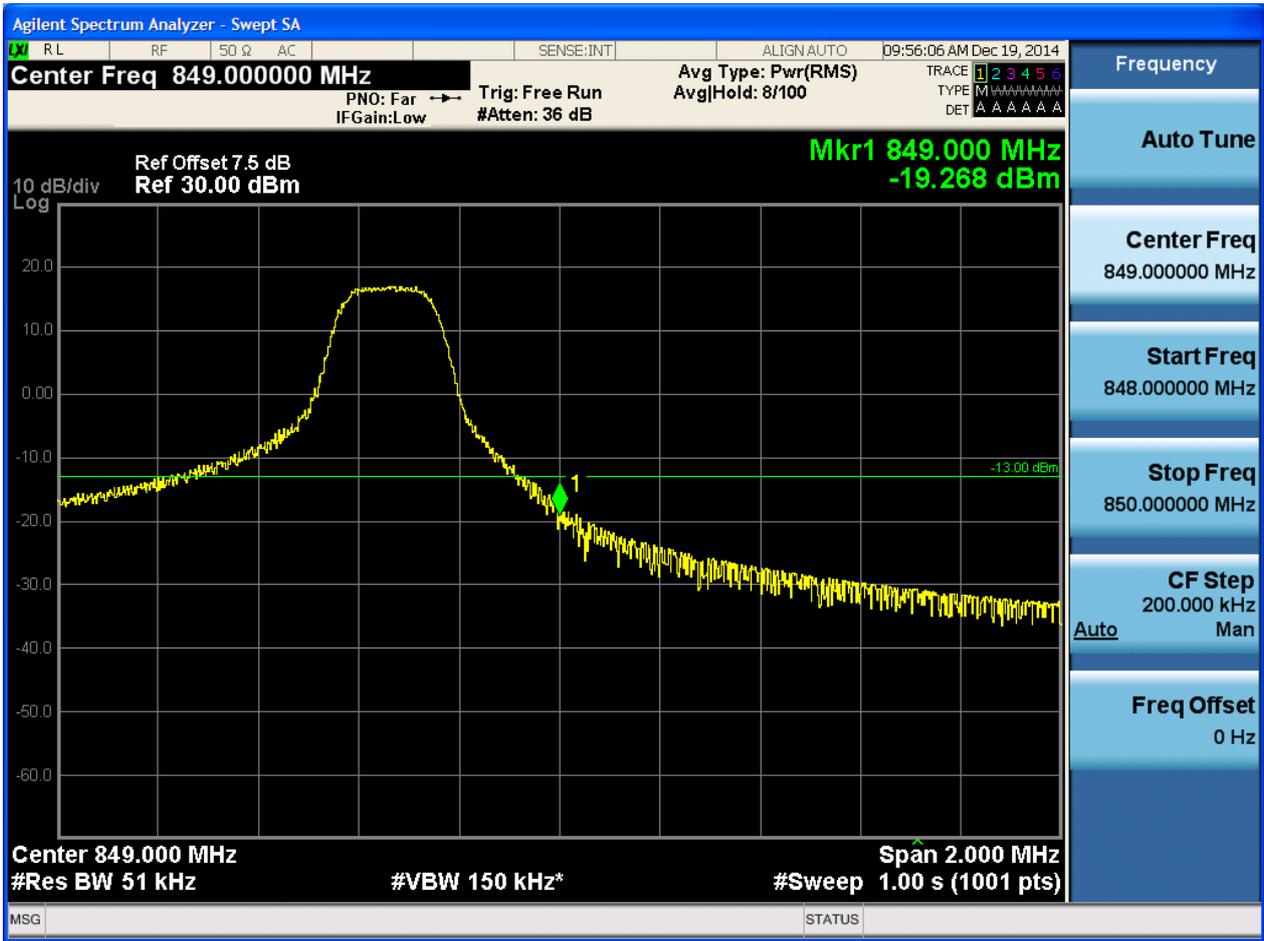


5.3.1.2.1.2 Test Channel = HCH

5.3.1.2.1.2.1 Test RB = RB1#0

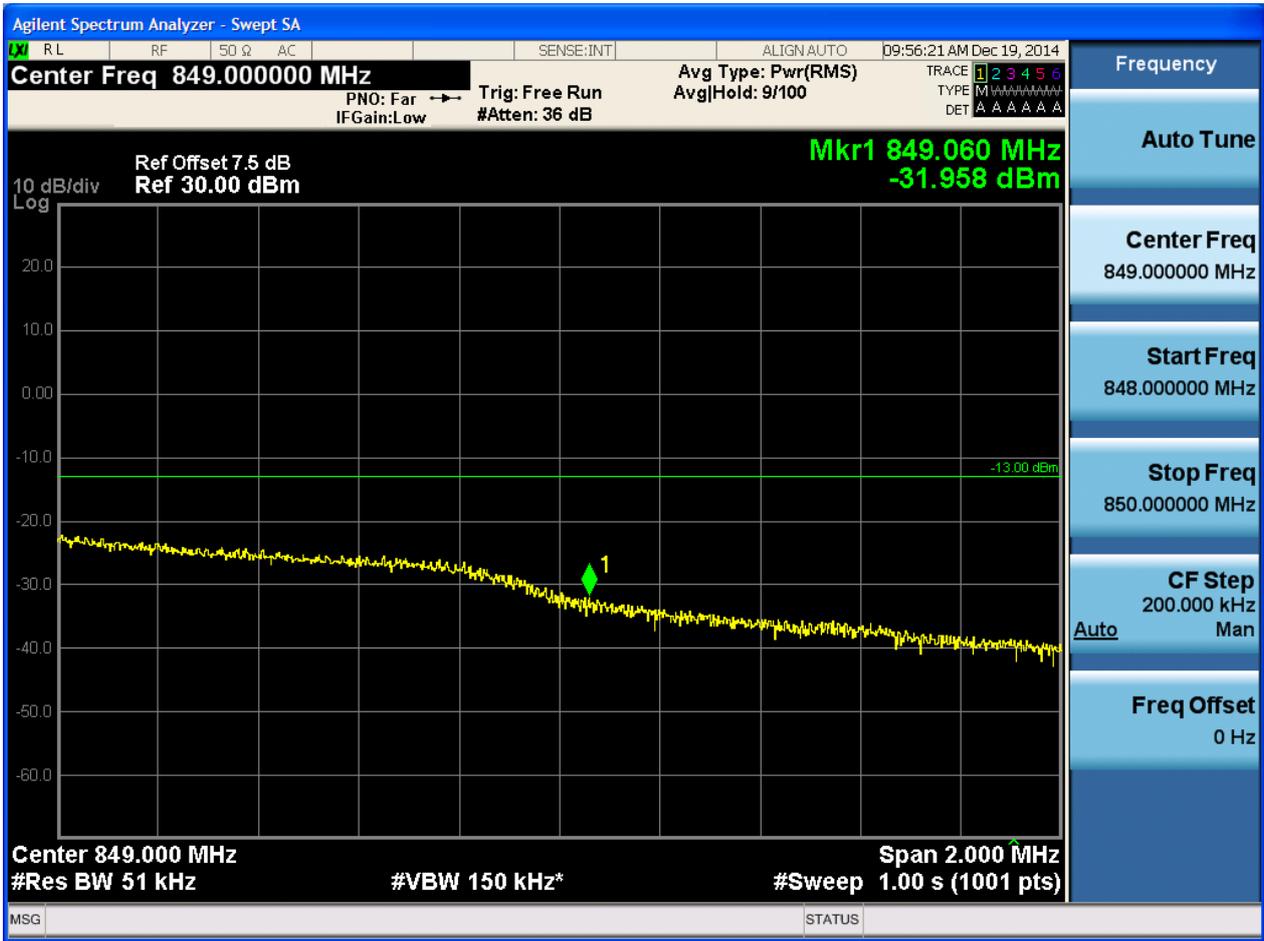


5.3.1.2.1.2.2 Test RB = RB1#24

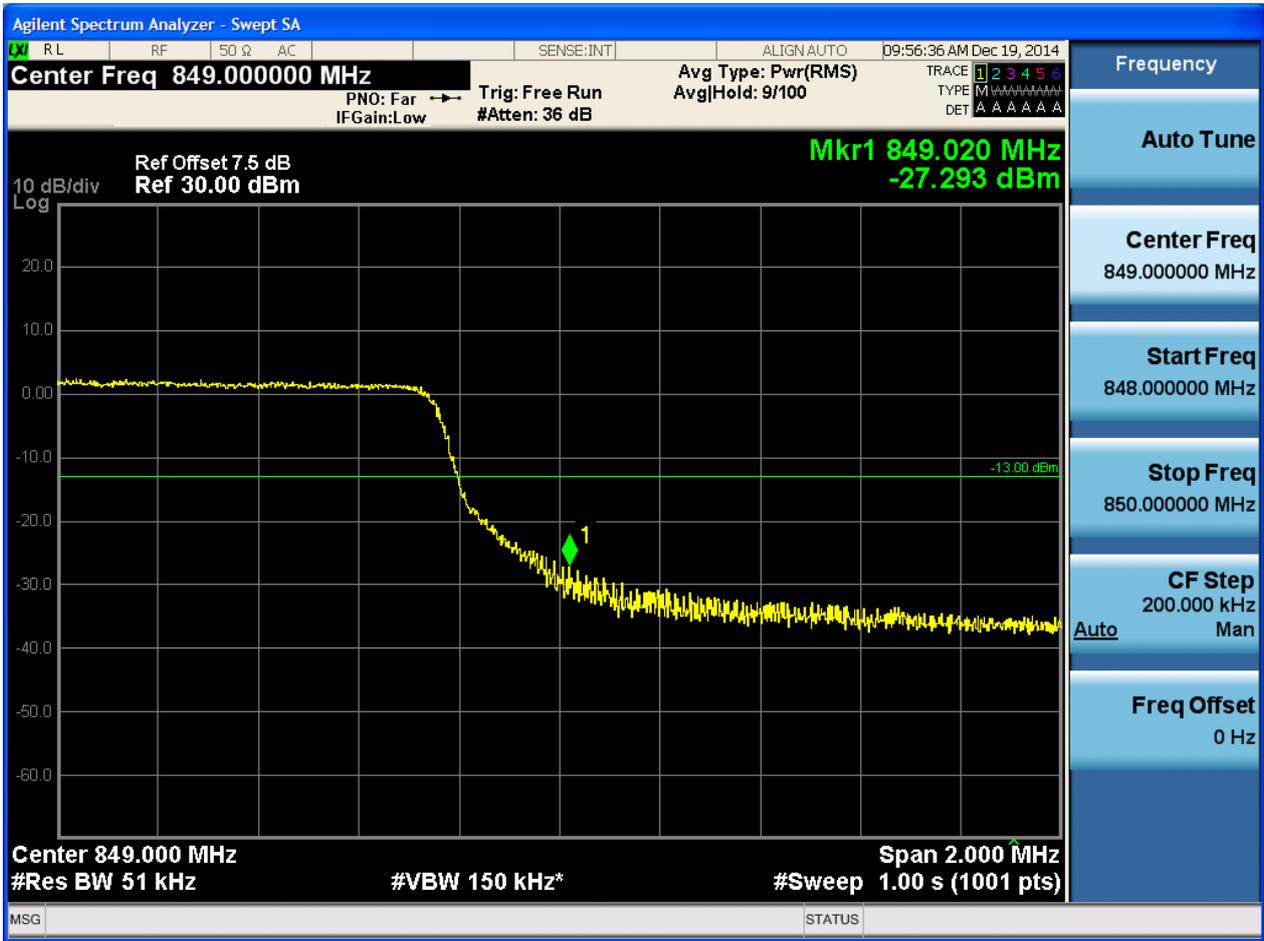




5.3.1.2.1.2.3 Test RB = RB12#6



5.3.1.2.1.2.4 Test RB = RB25#0

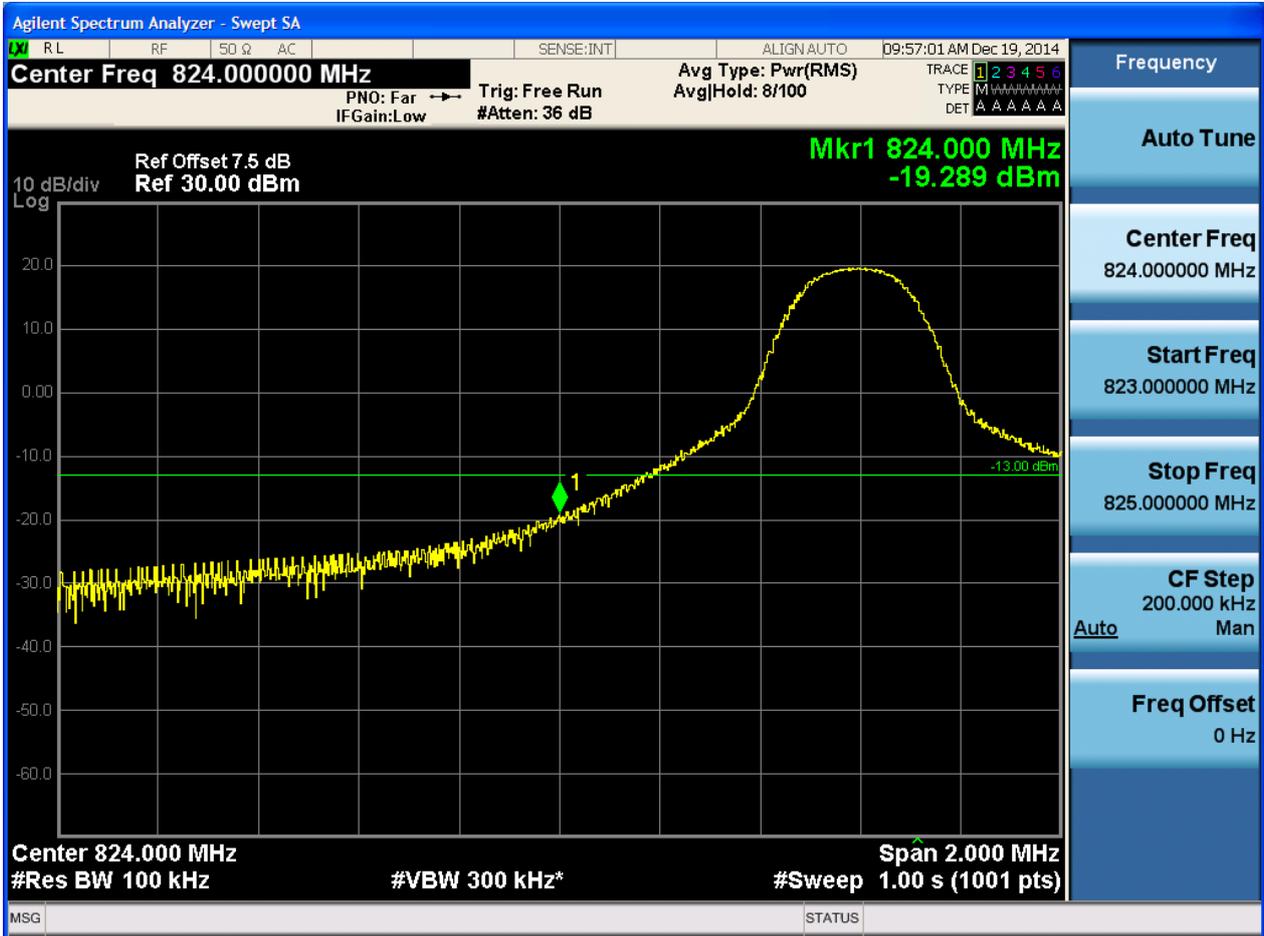




5.3.1.2.2 Test Bandwidth = 10

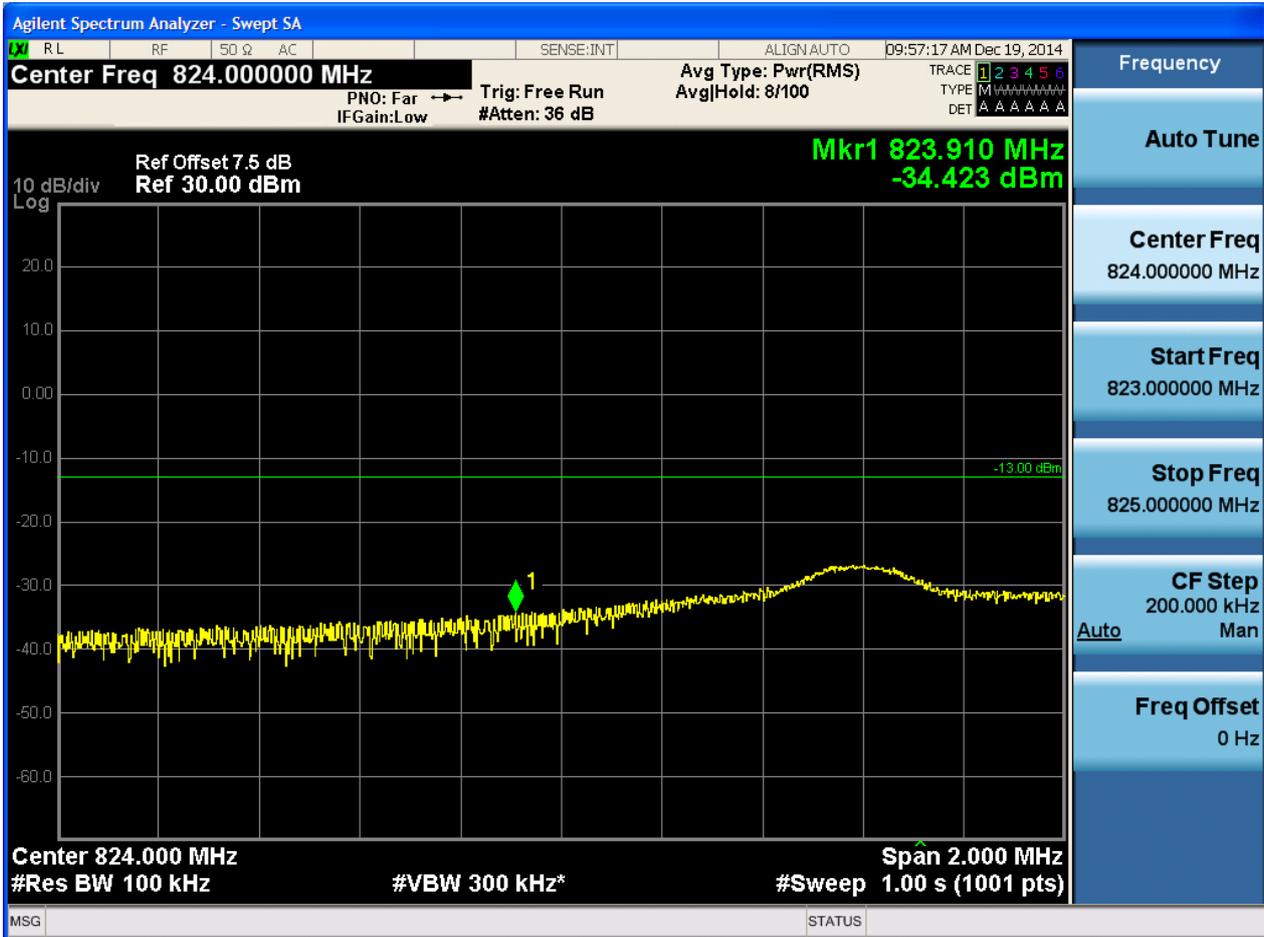
5.3.1.2.2.1 Test Channel = LCH

5.3.1.2.2.1.1 Test RB = RB1#0

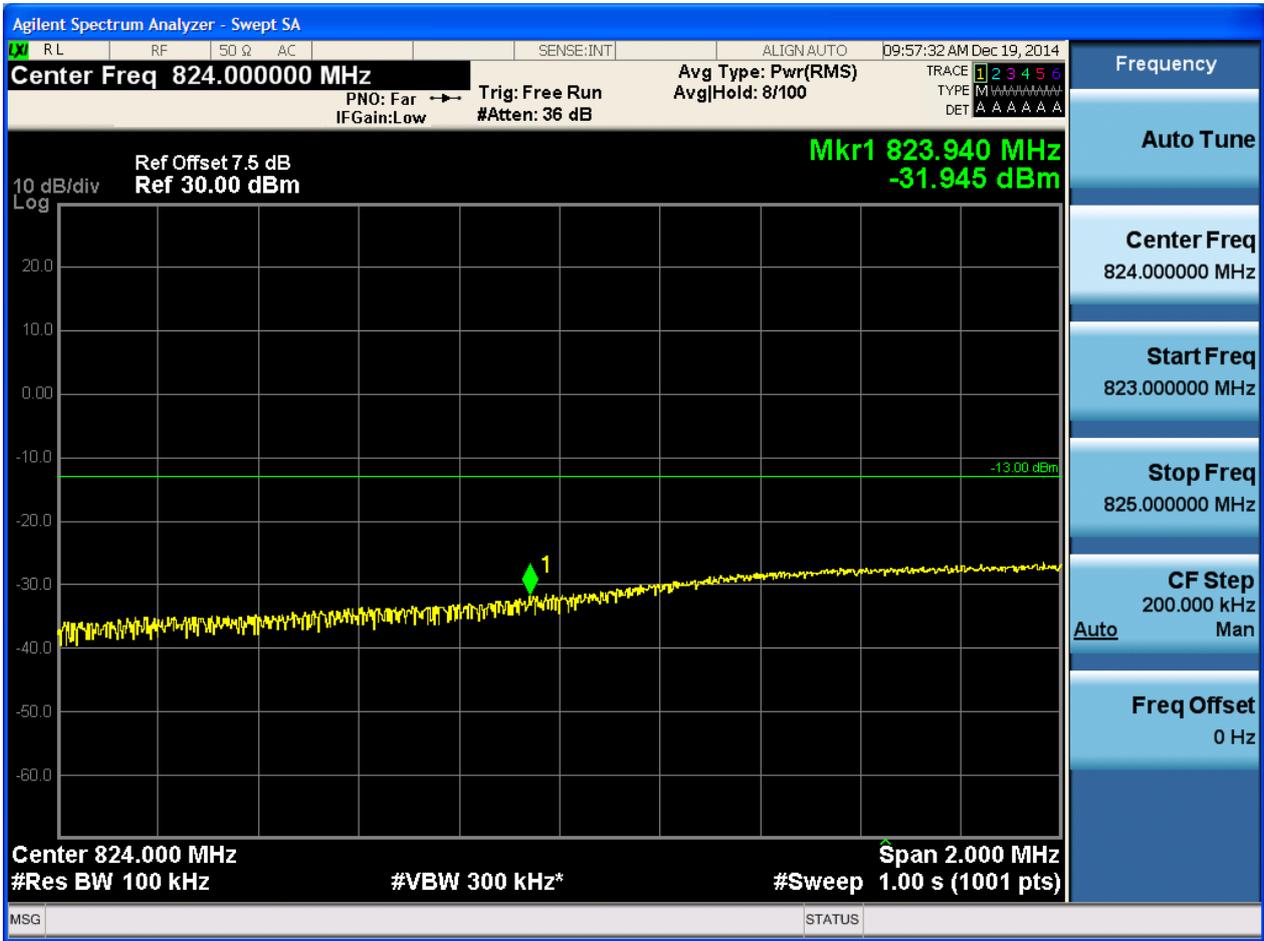




5.3.1.2.2.1.2 Test RB = RB1#49

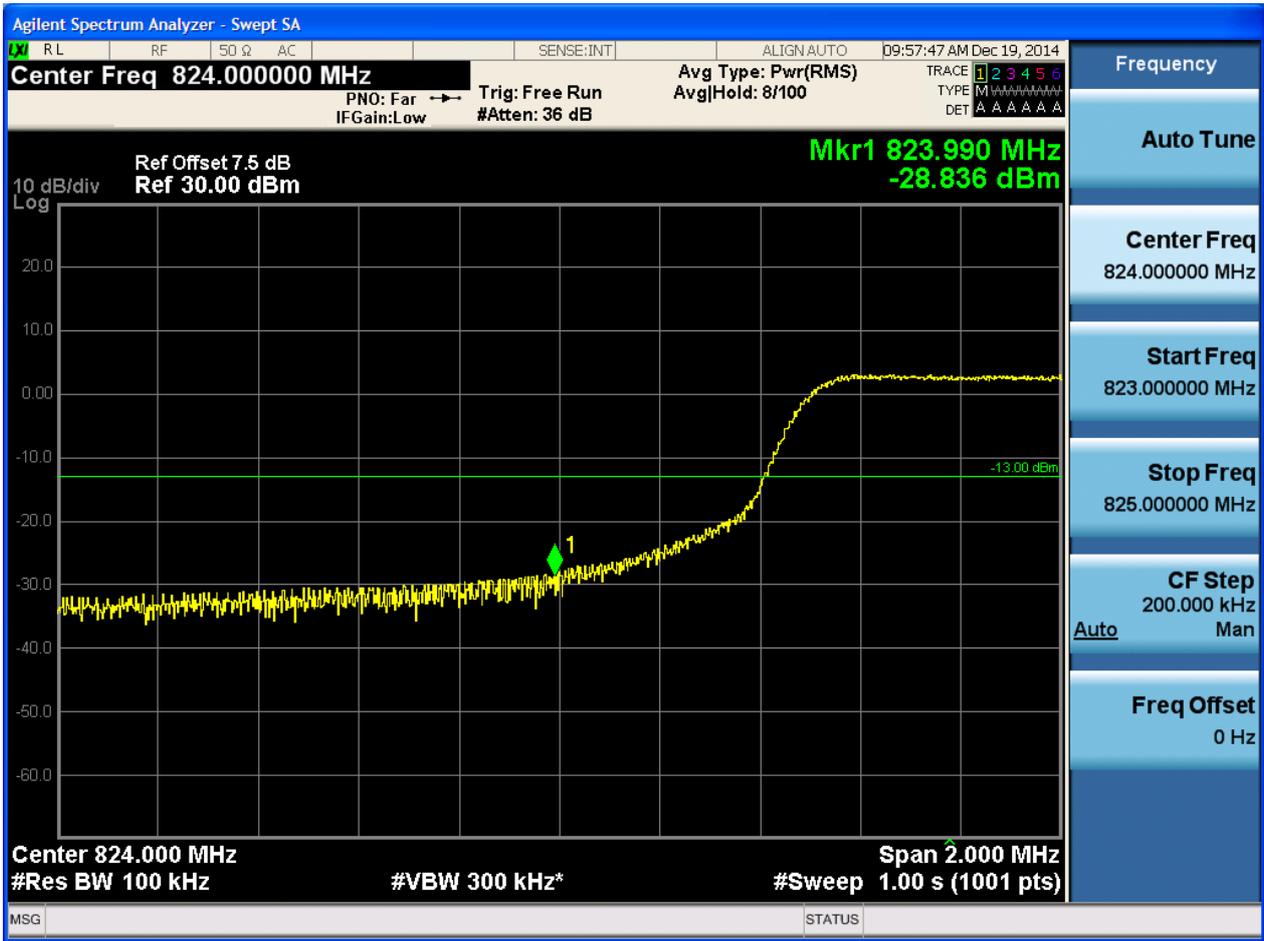


5.3.1.2.2.1.3 Test RB = RB25#13





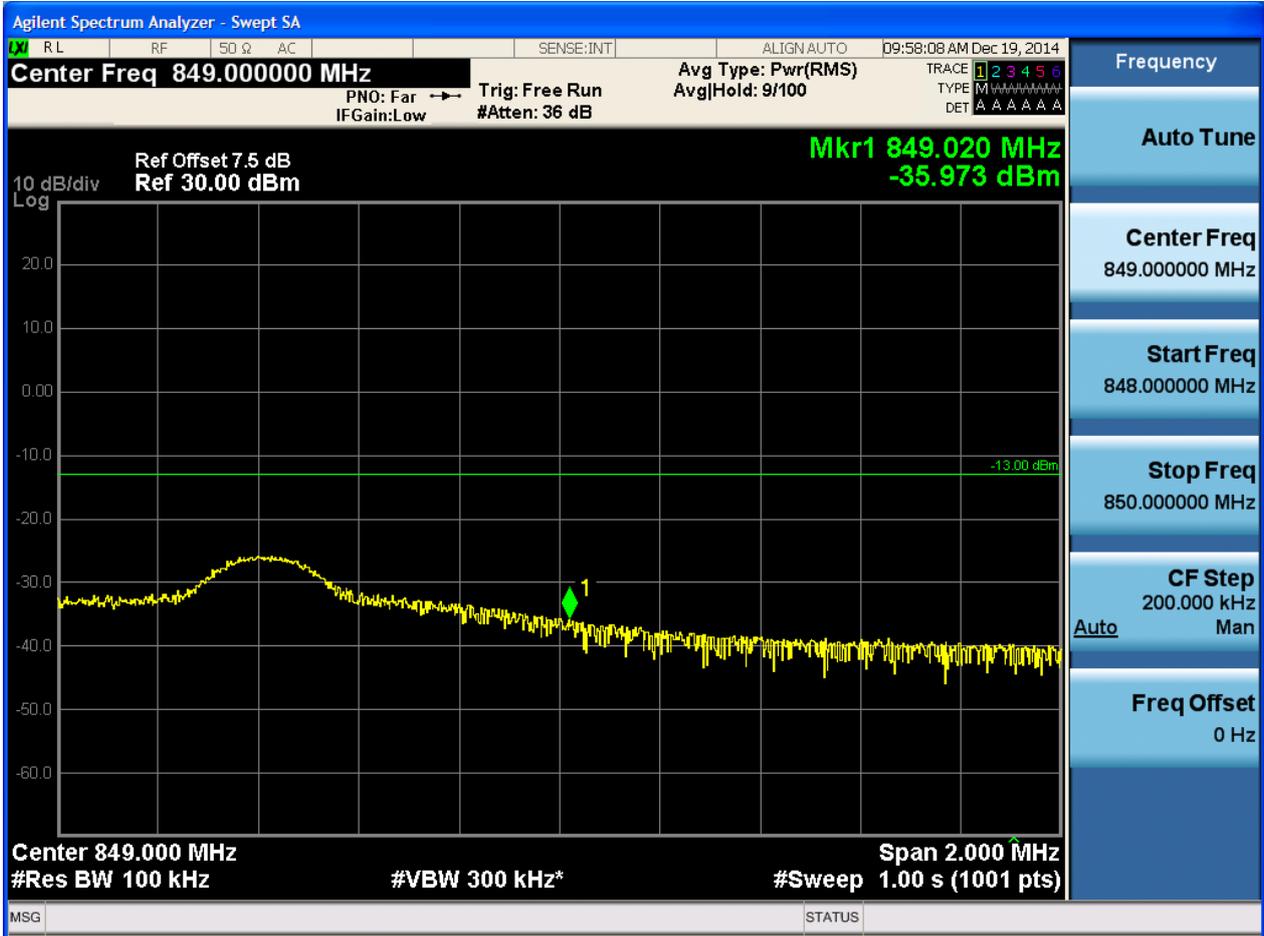
5.3.1.2.2.1.4 Test RB = RB50#0





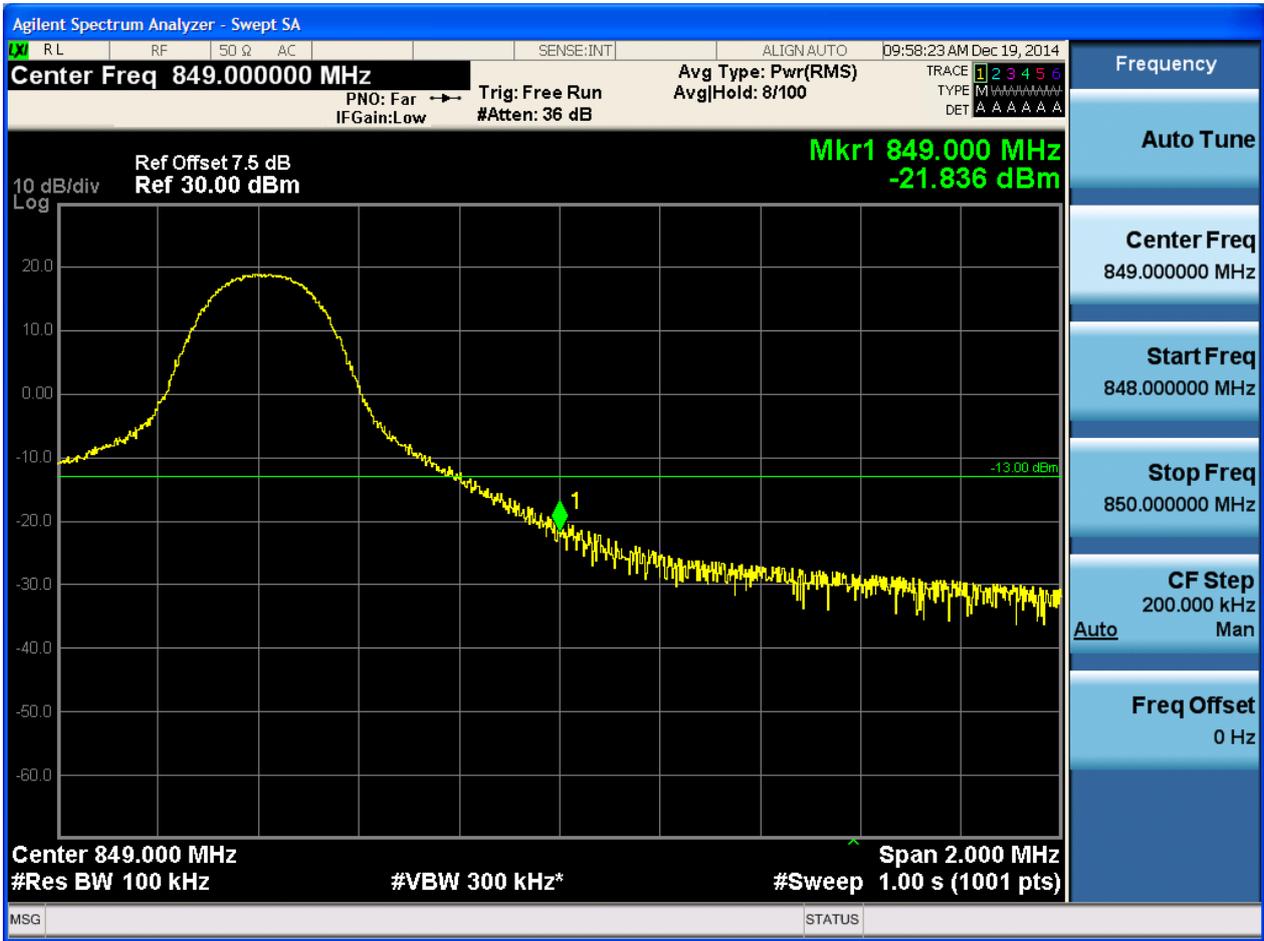
5.3.1.2.2.2 Test Channel = HCH

5.3.1.2.2.2.1 Test RB = RB1#0



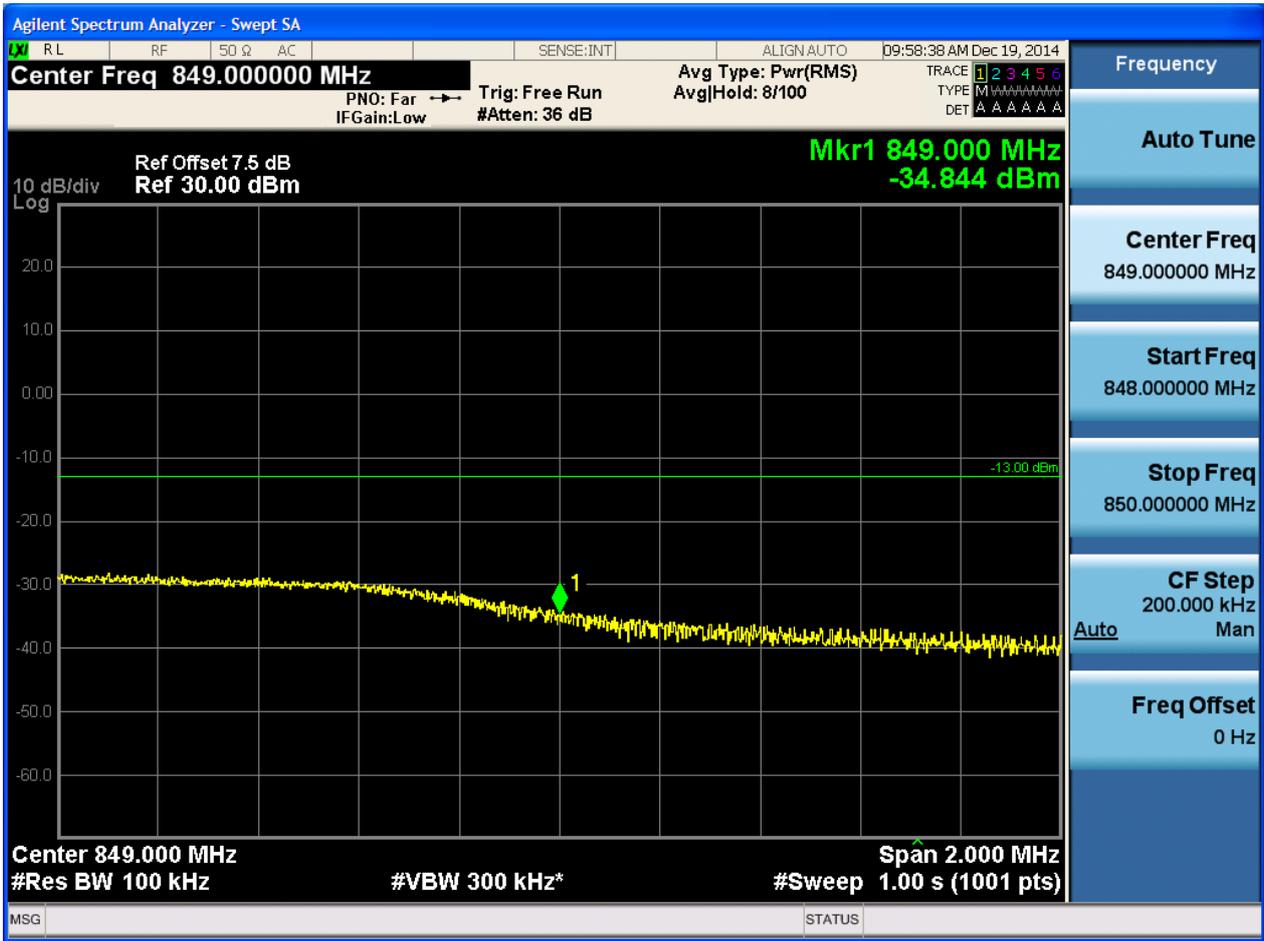


5.3.1.2.2.2 Test RB = RB1#49



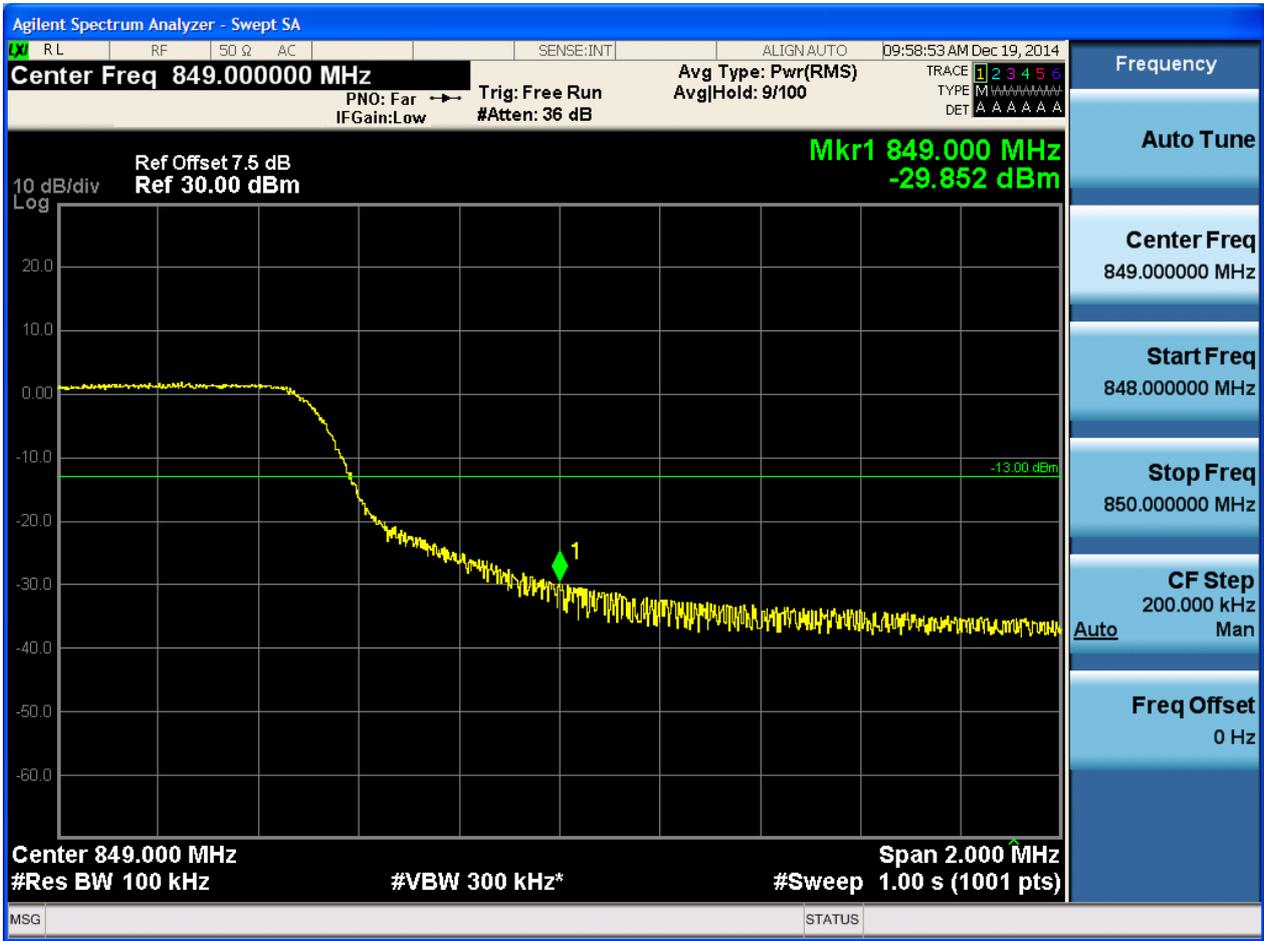


5.3.1.2.2.2.3 Test RB = RB25#13





5.3.1.2.2.4 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

#### 6.3 For LTE

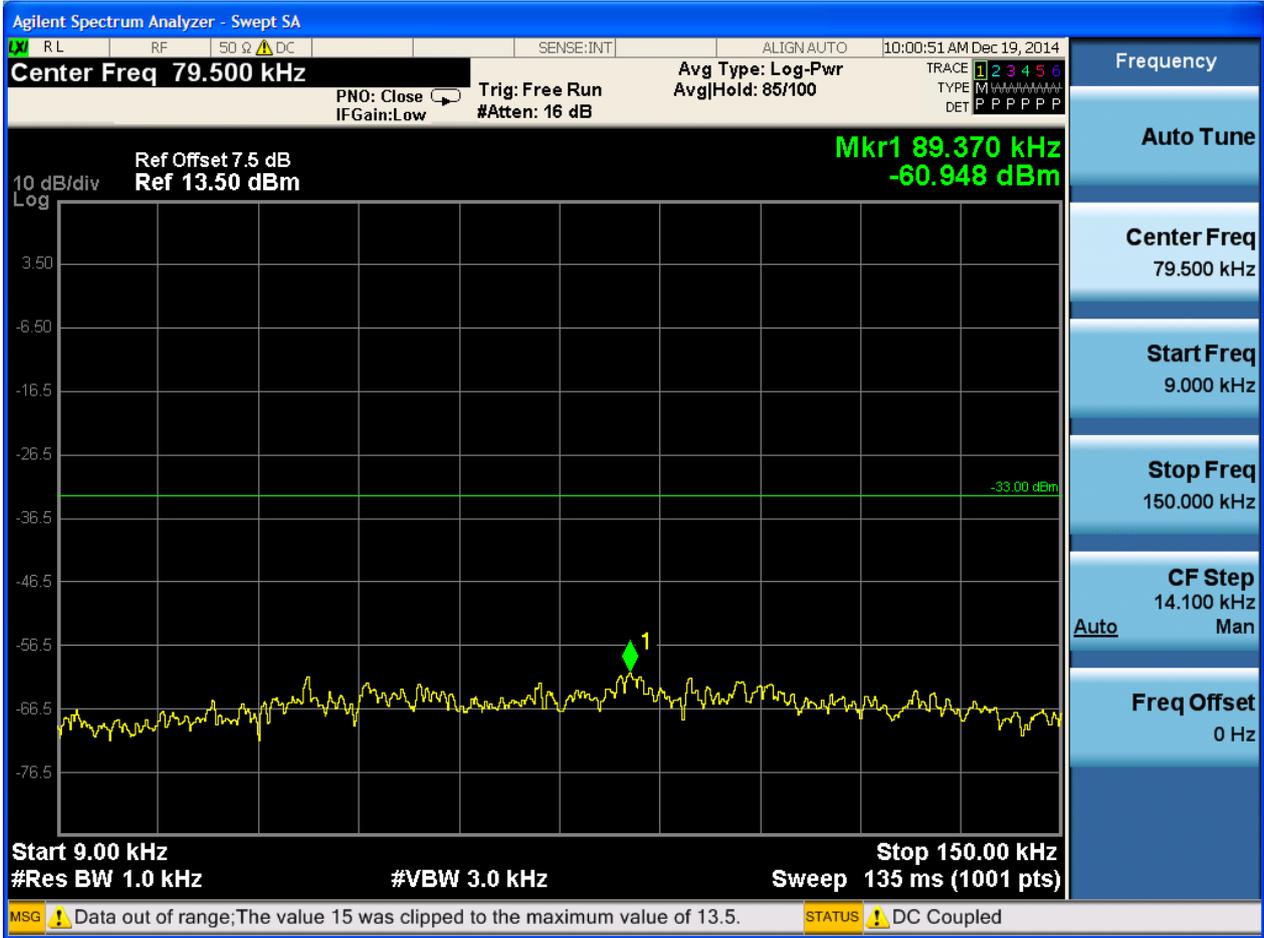
##### 6.3.1 Test Band = BAND5

##### 6.3.1.1 Test Mode = LTE/TM1

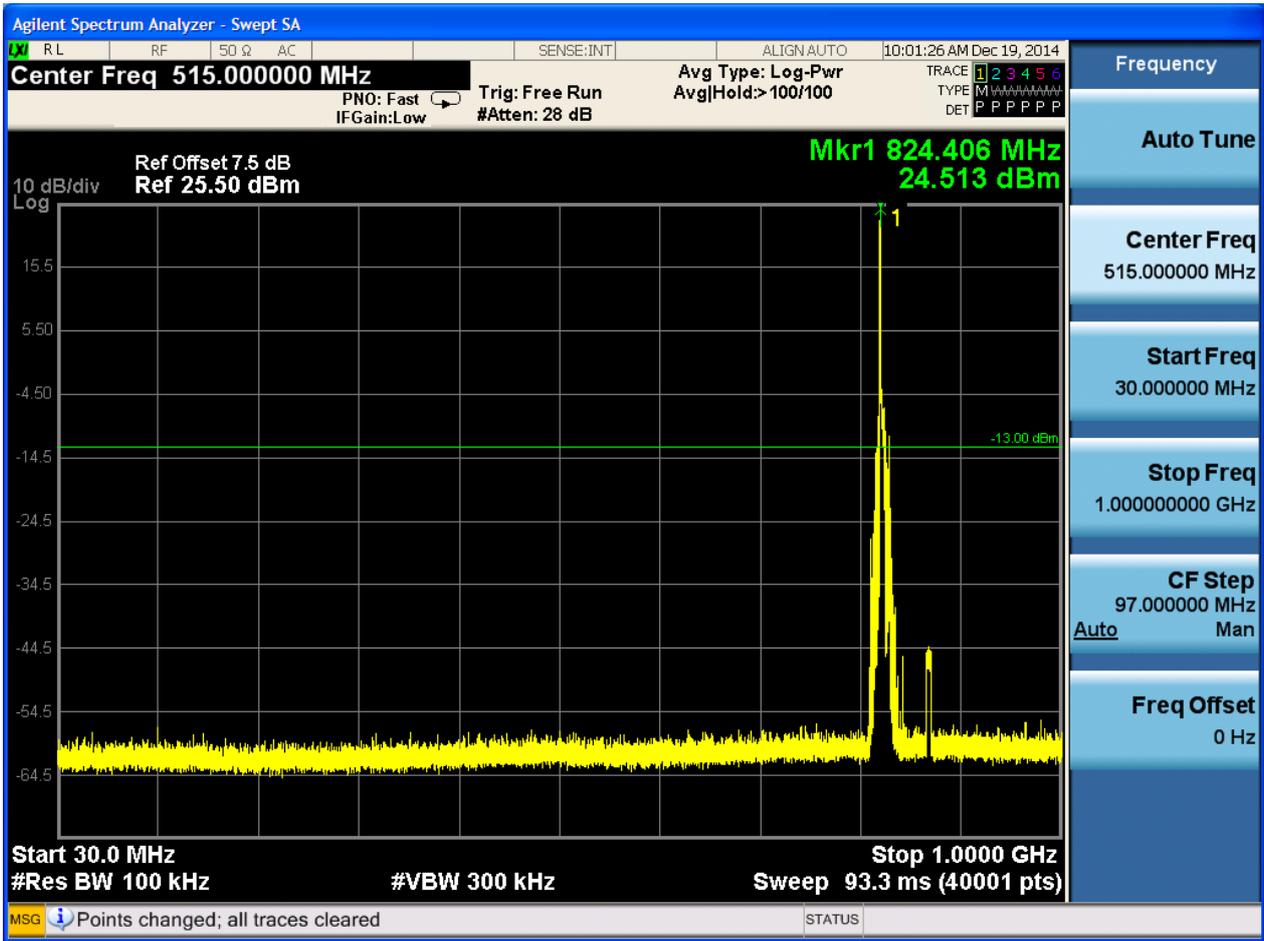
##### 6.3.1.1.1 Test Bandwidth = 5

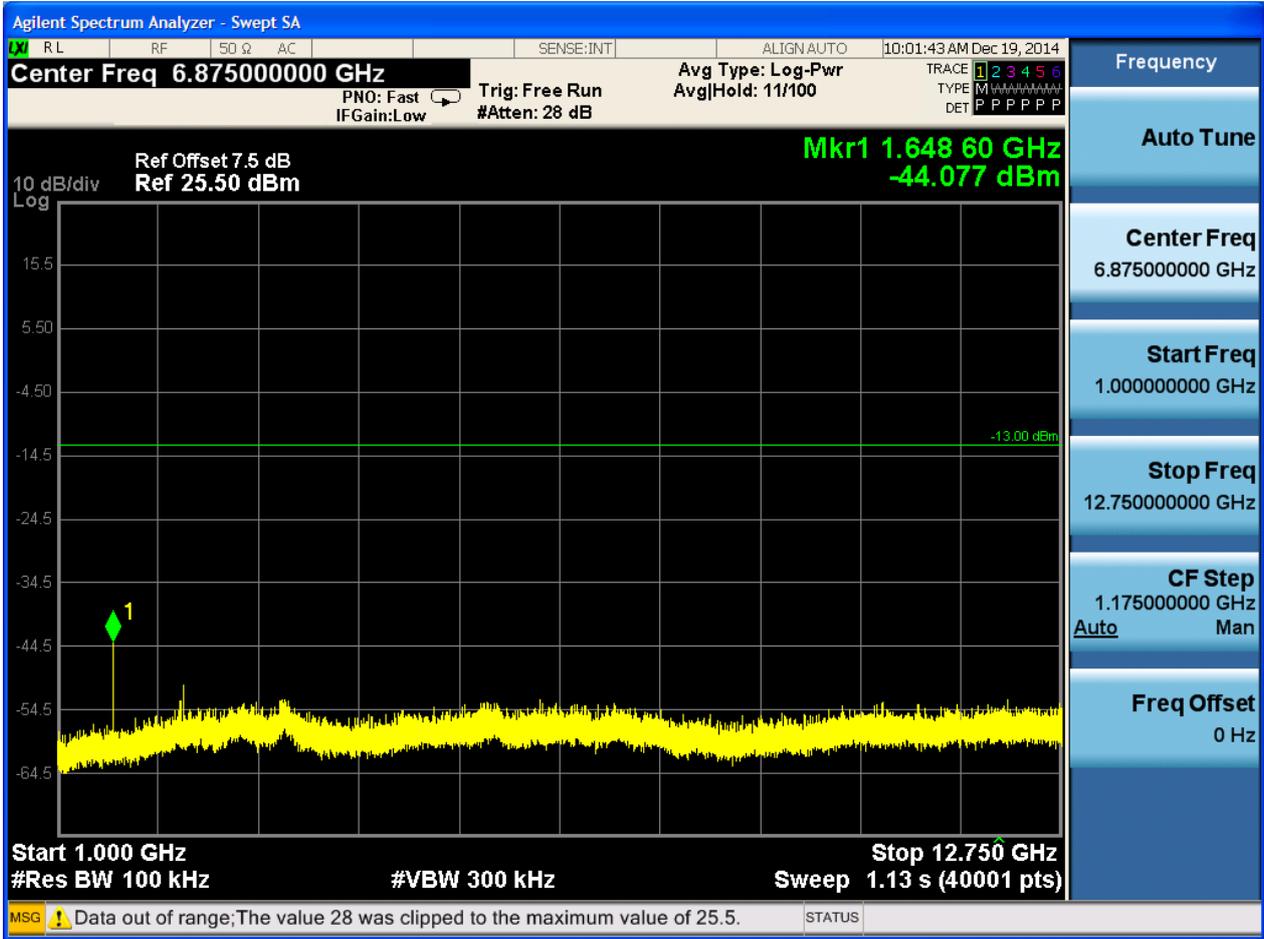
##### 6.3.1.1.1.1 Test Channel = LCH

##### 6.3.1.1.1.1.1 Test RB = RB1#0



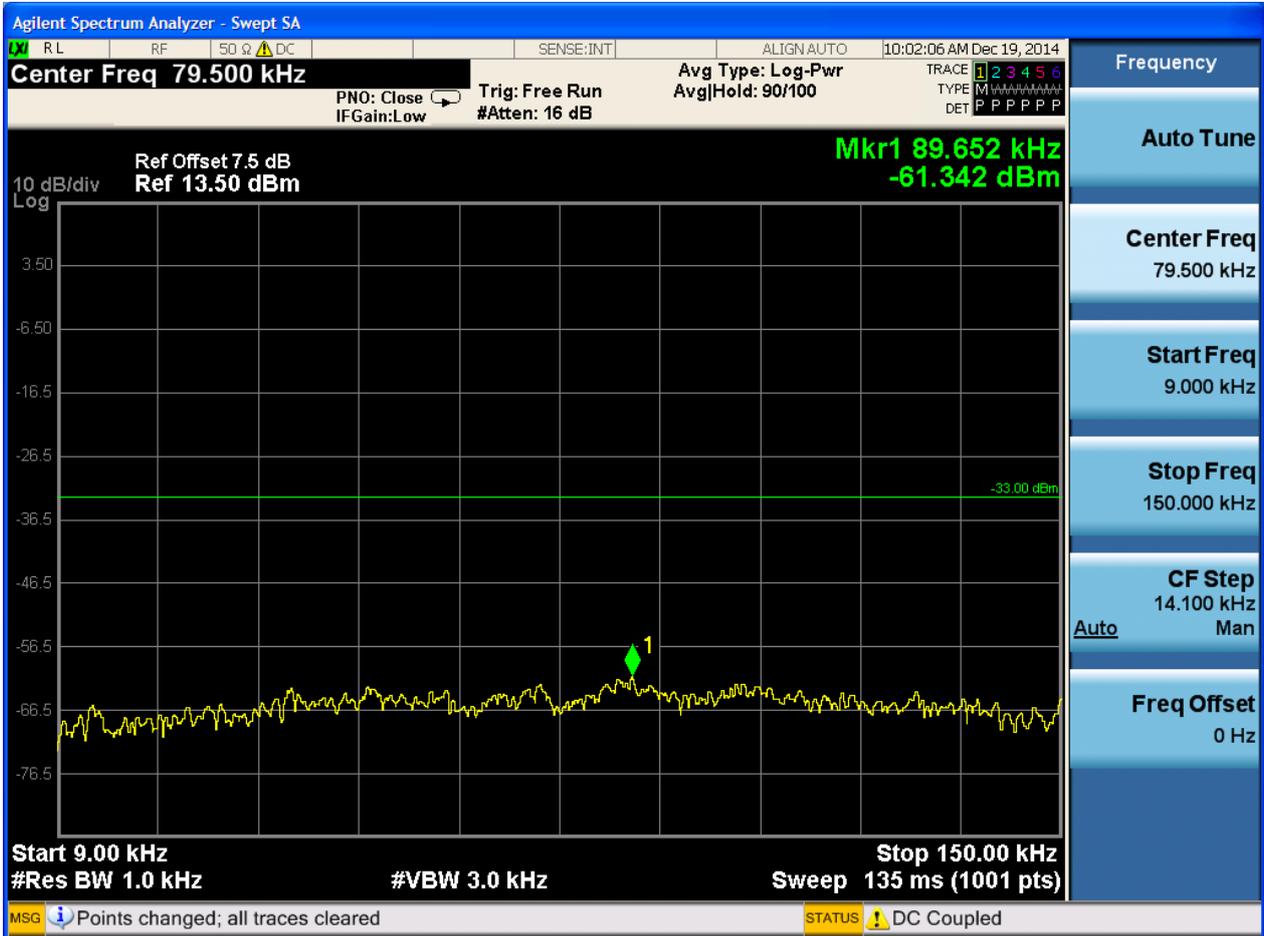


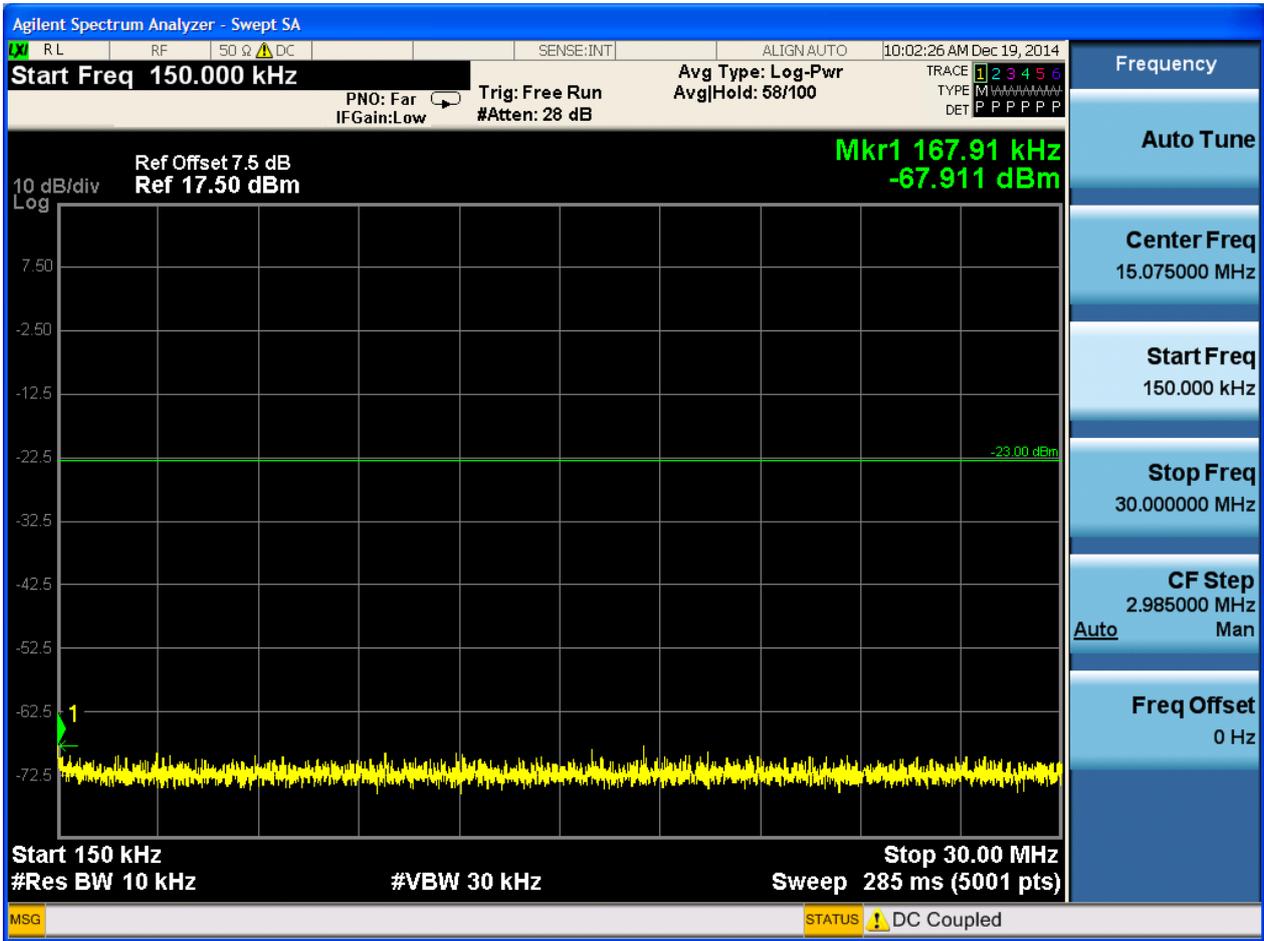


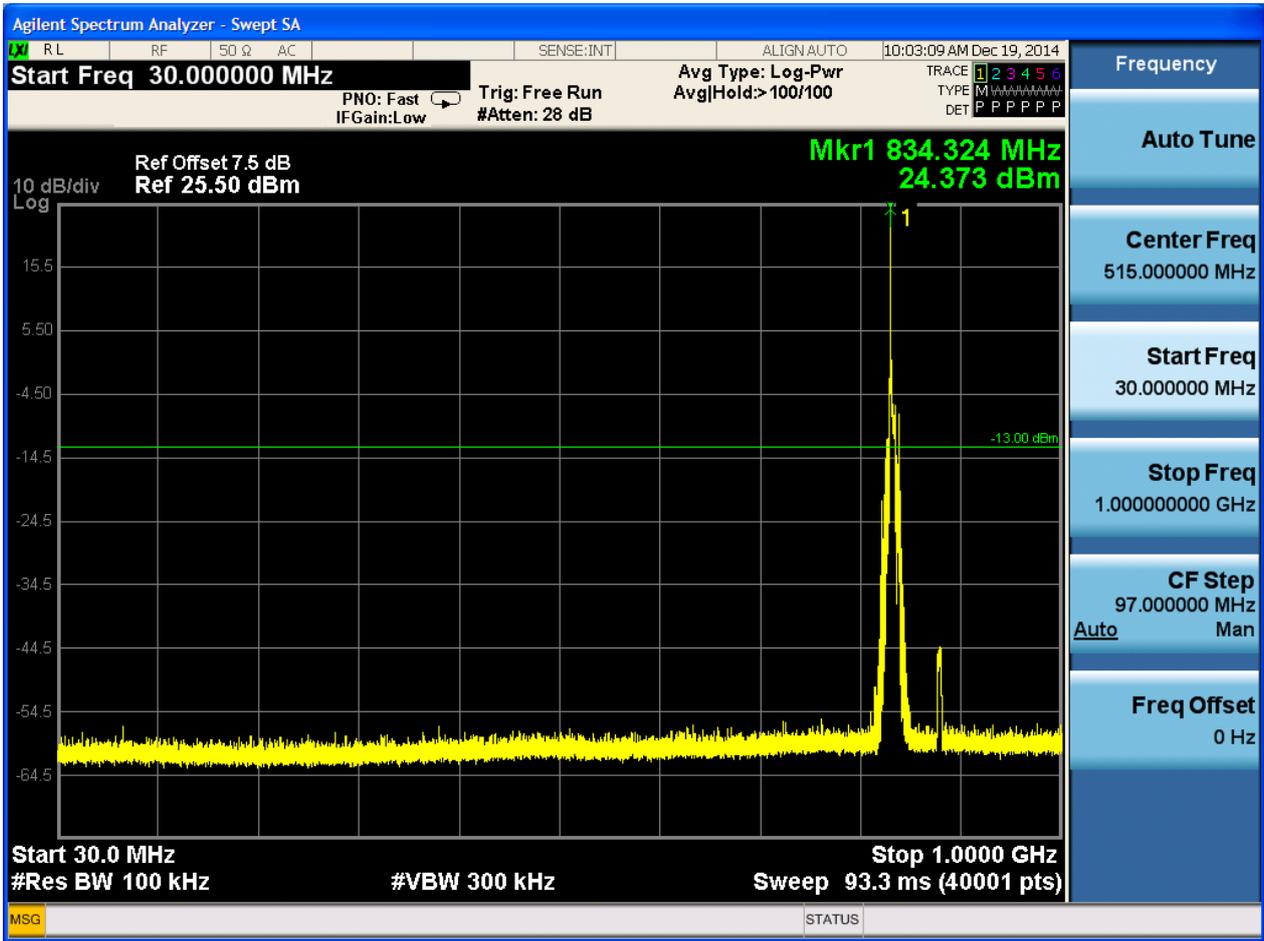


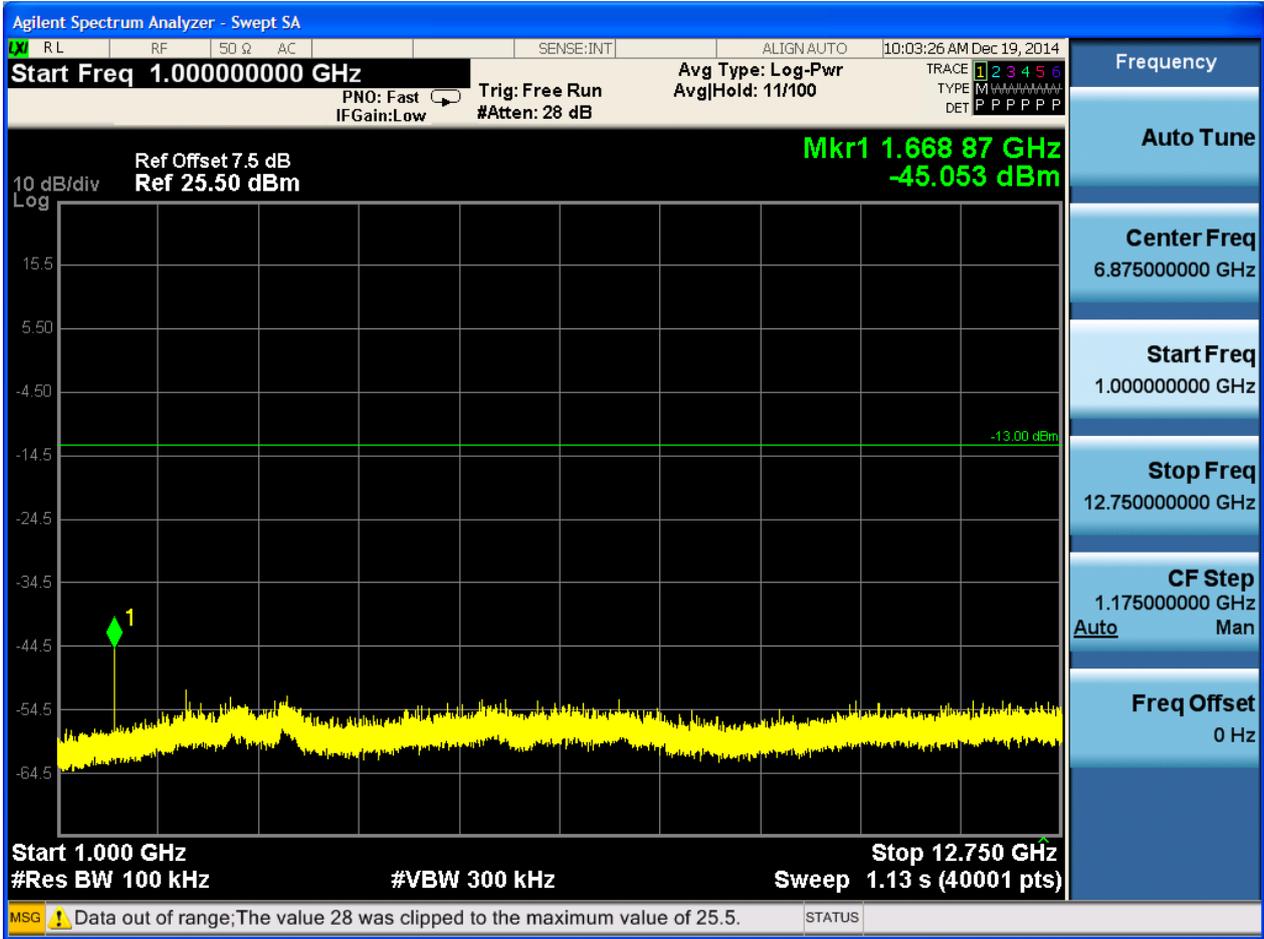
6.3.1.1.1.2 Test Channel = MCH

6.3.1.1.1.2.1 Test RB = RB1#0



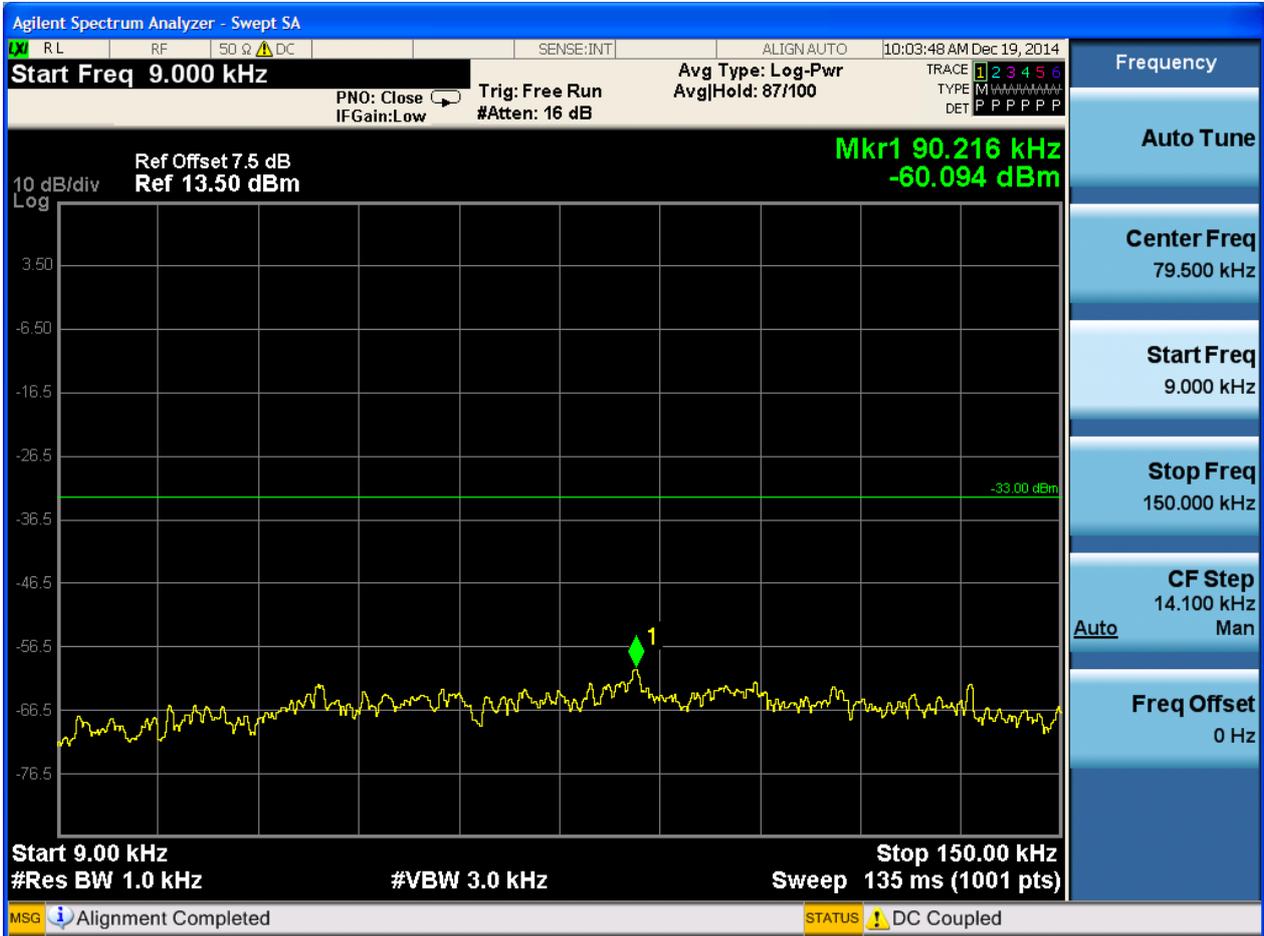




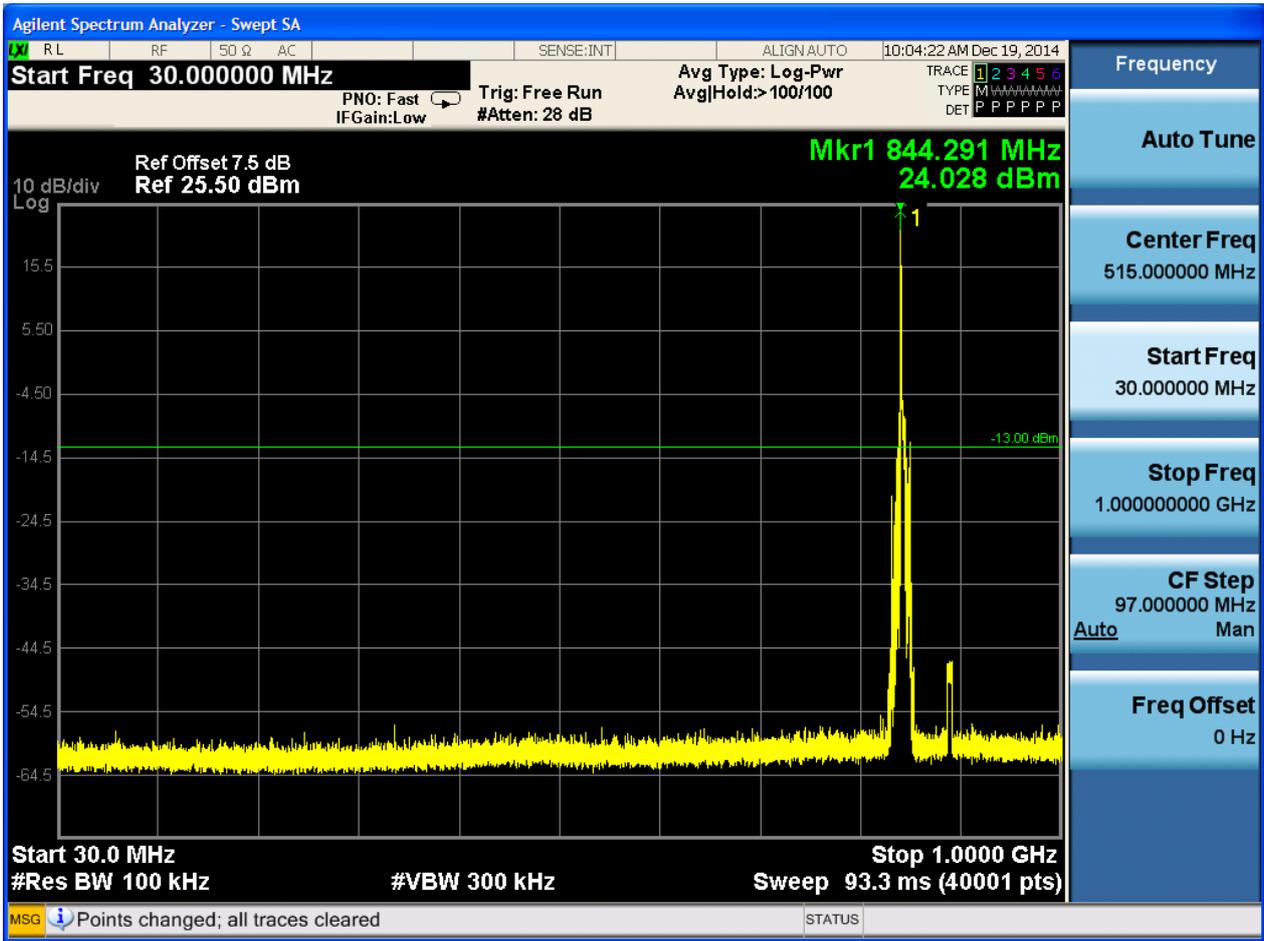


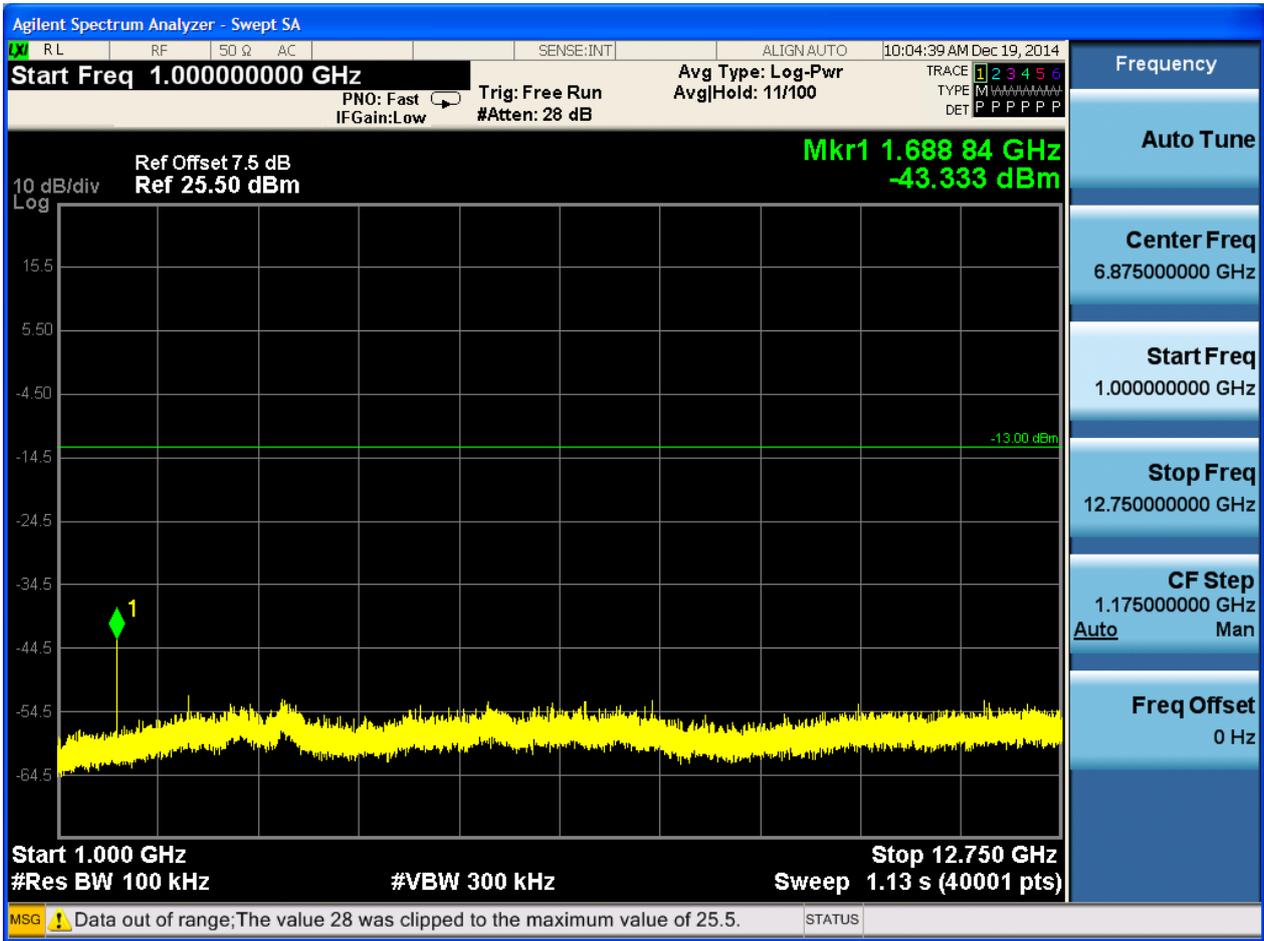
6.3.1.1.1.3 Test Channel = HCH

6.3.1.1.1.3.1 Test RB = RB1#0





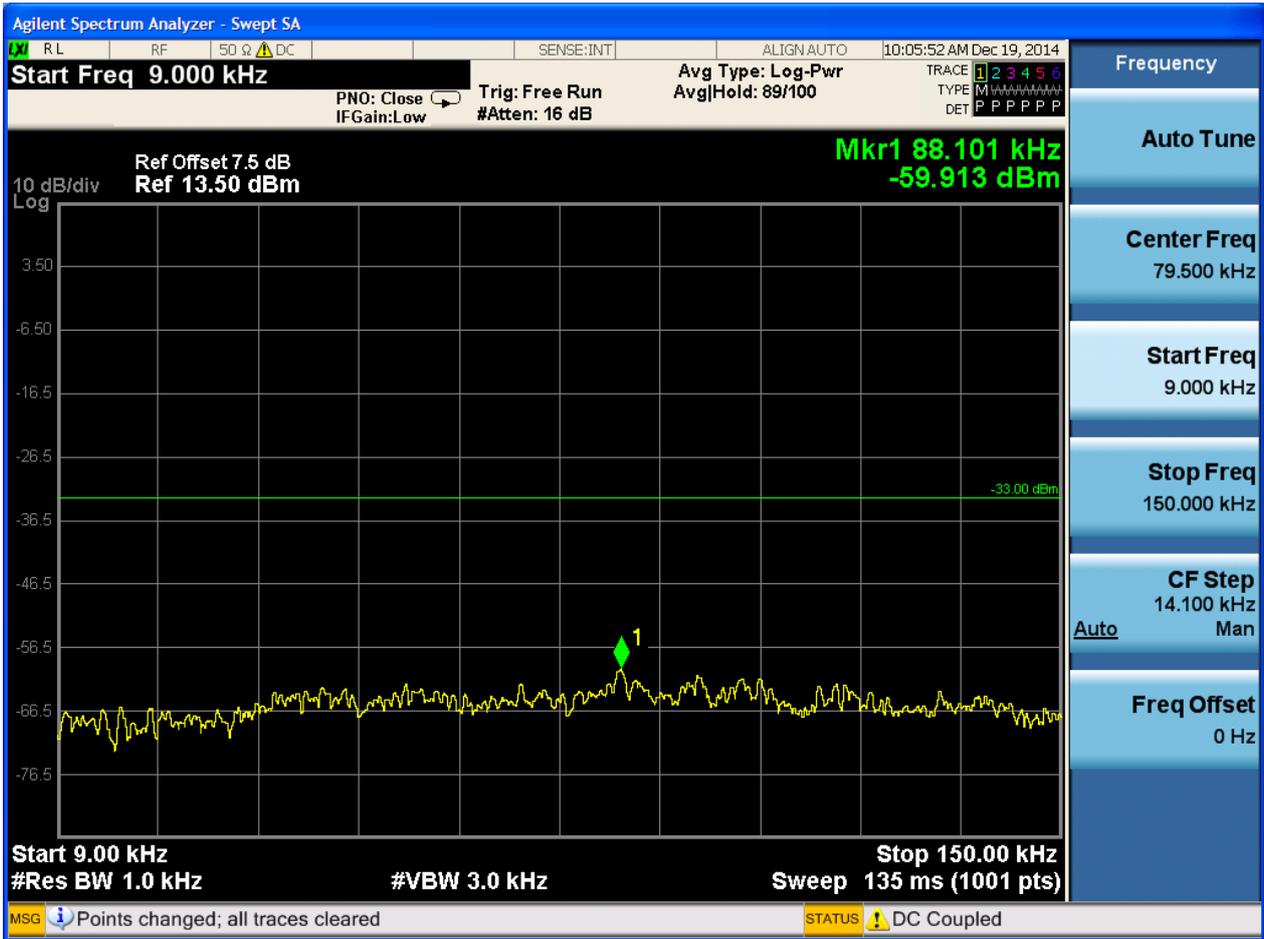




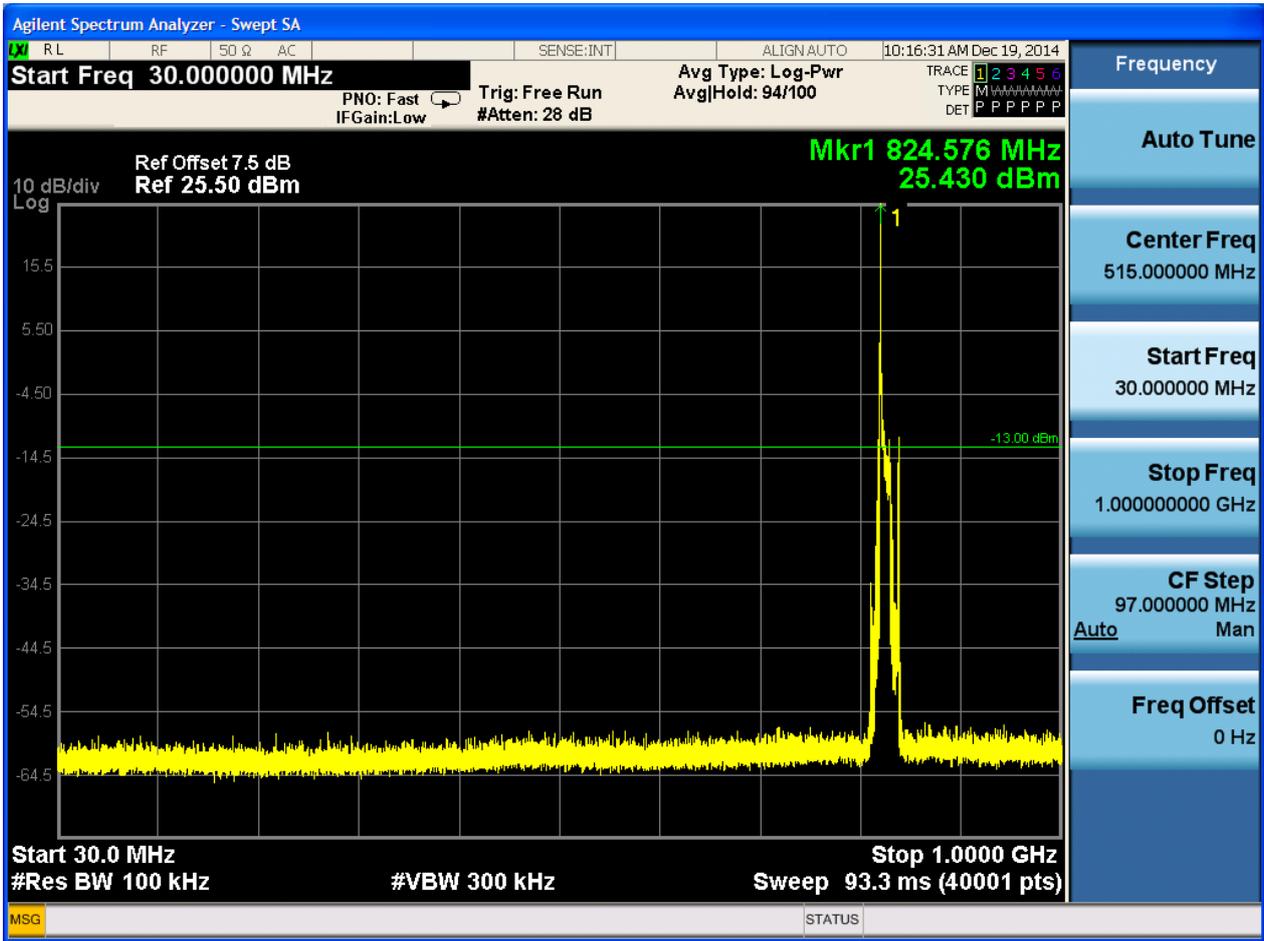
6.3.1.1.2 Test Bandwidth = 10

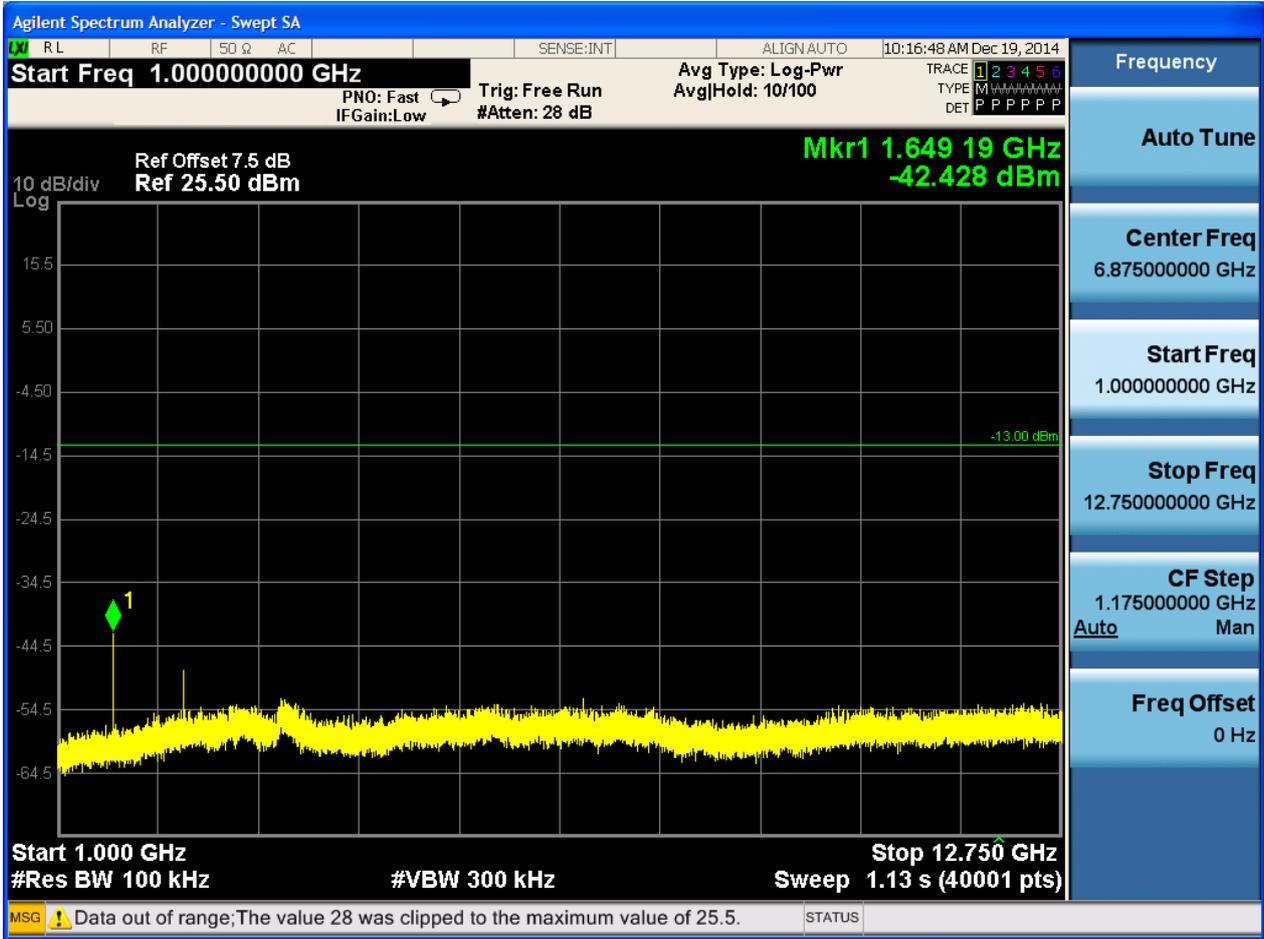
6.3.1.1.2.1 Test Channel = LCH

6.3.1.1.2.1.1 Test RB = RB1#0



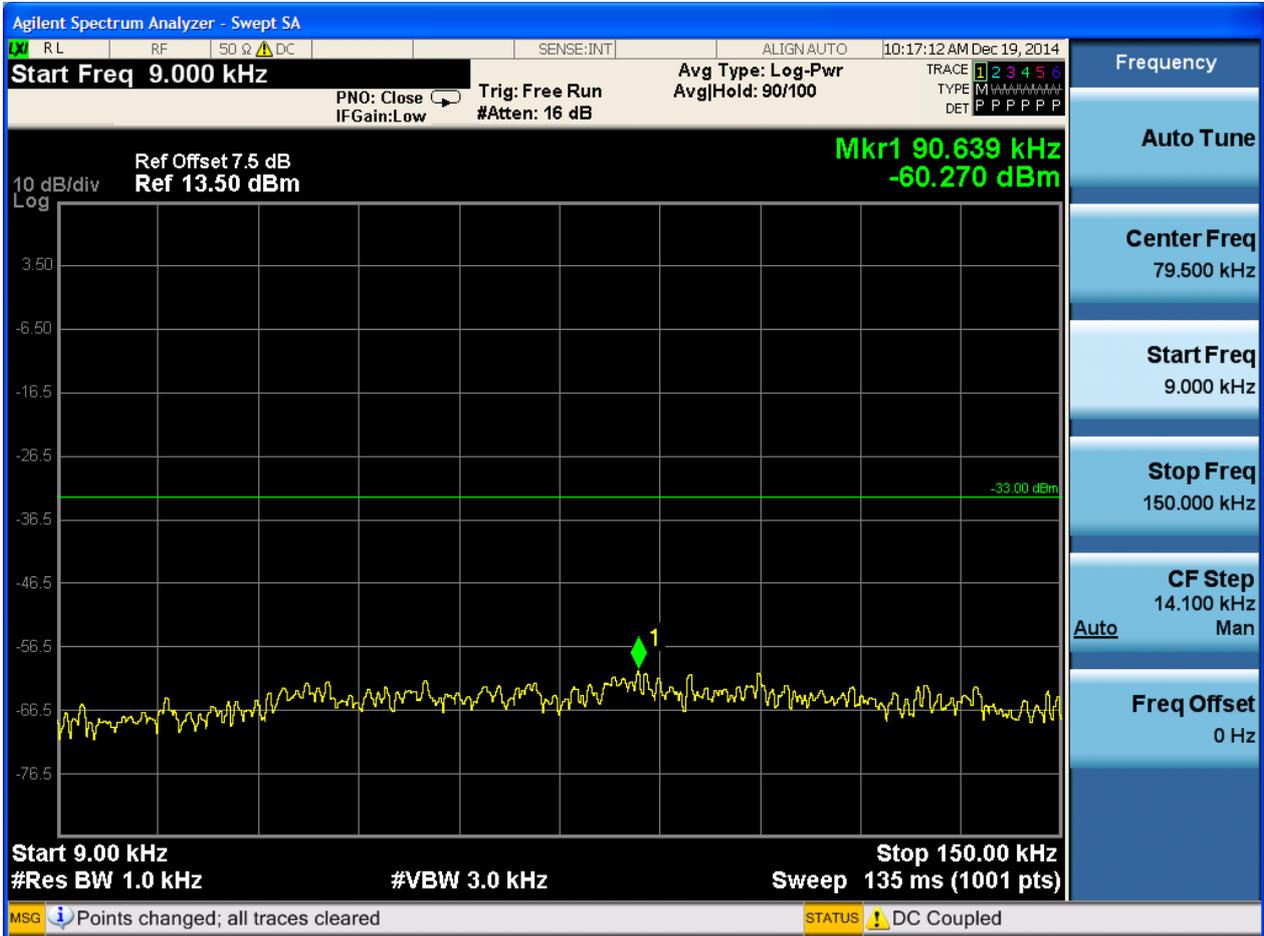


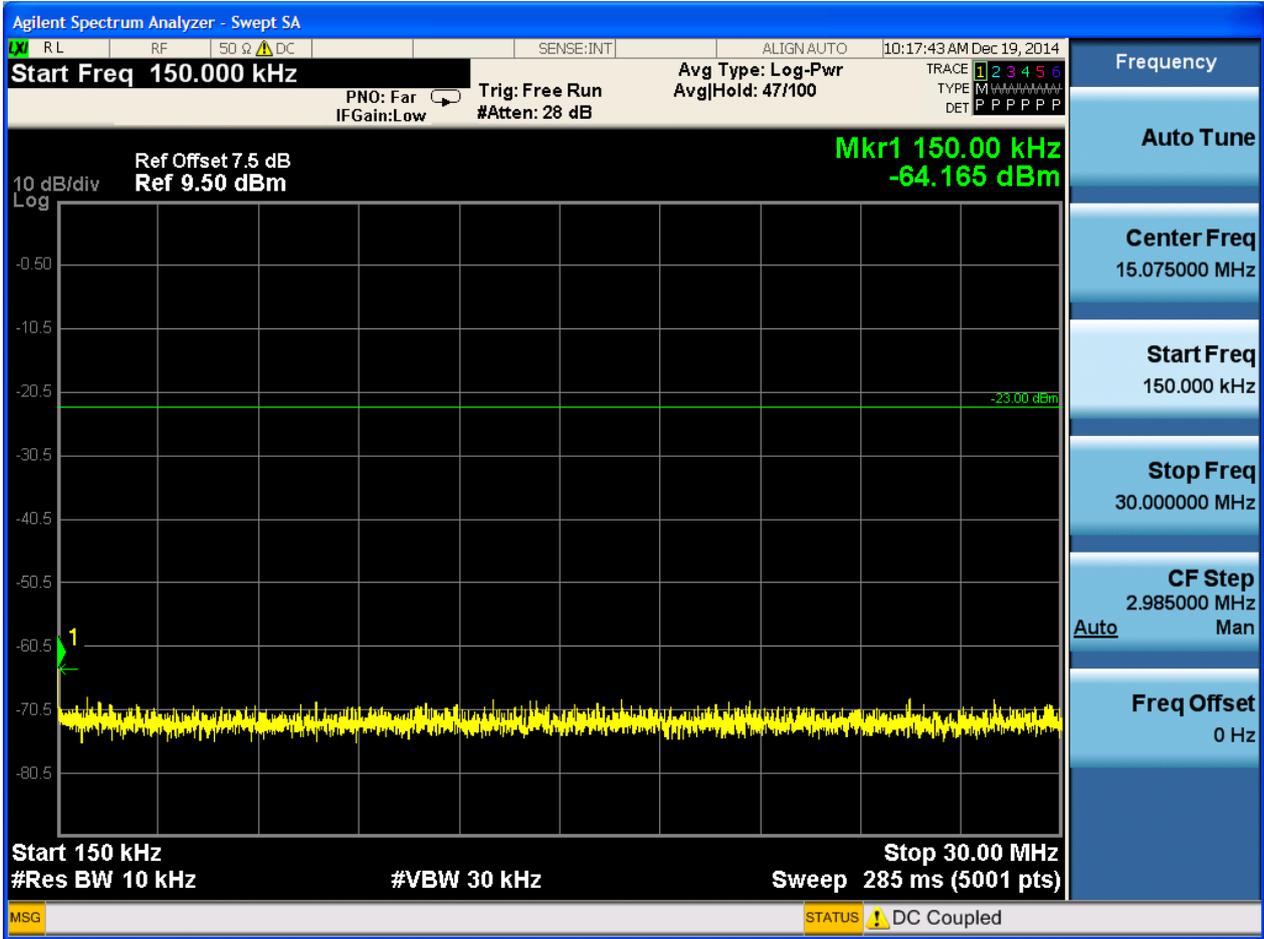




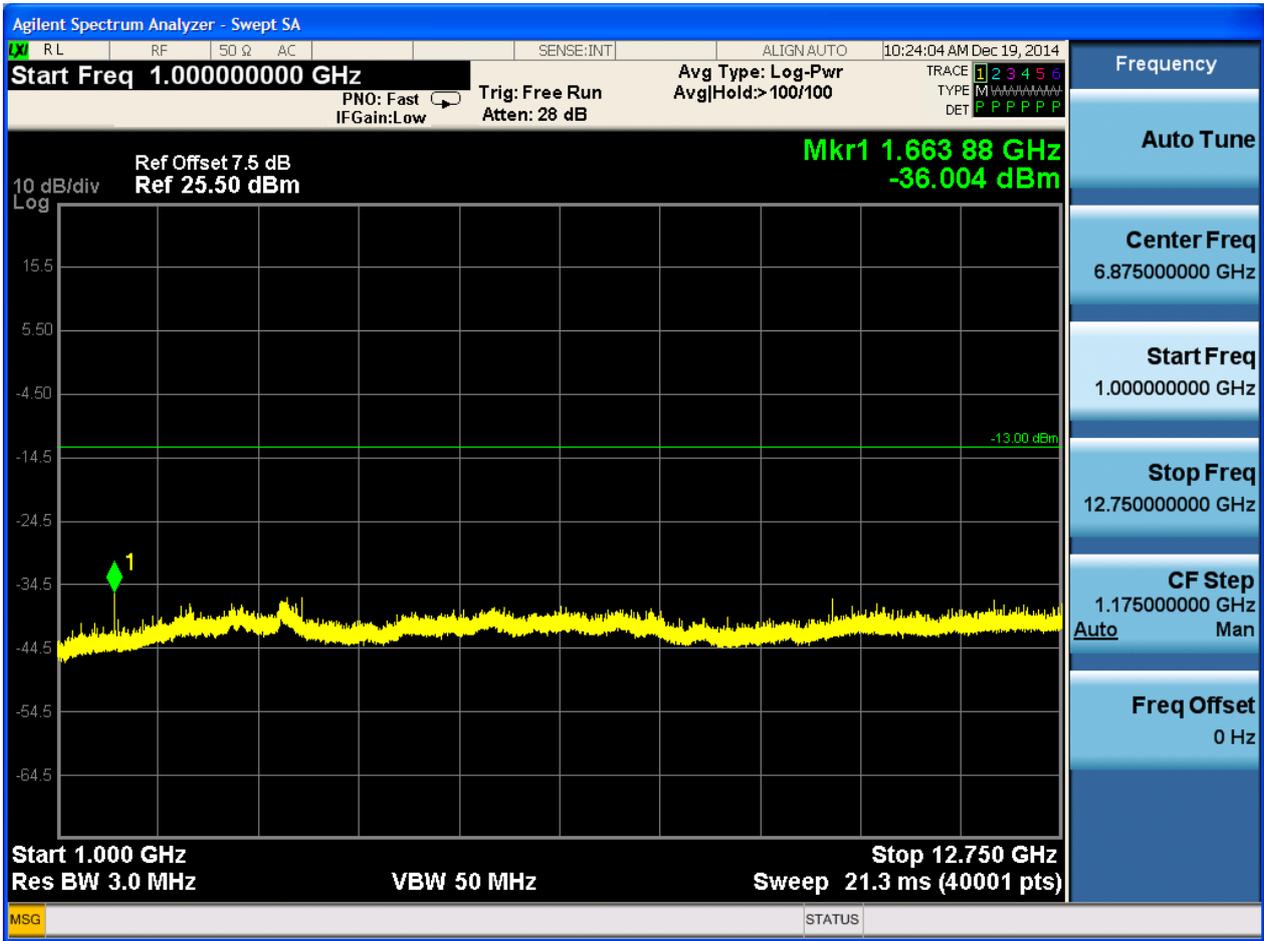
6.3.1.1.2.2 Test Channel = MCH

6.3.1.1.2.2.1 Test RB = RB1#0



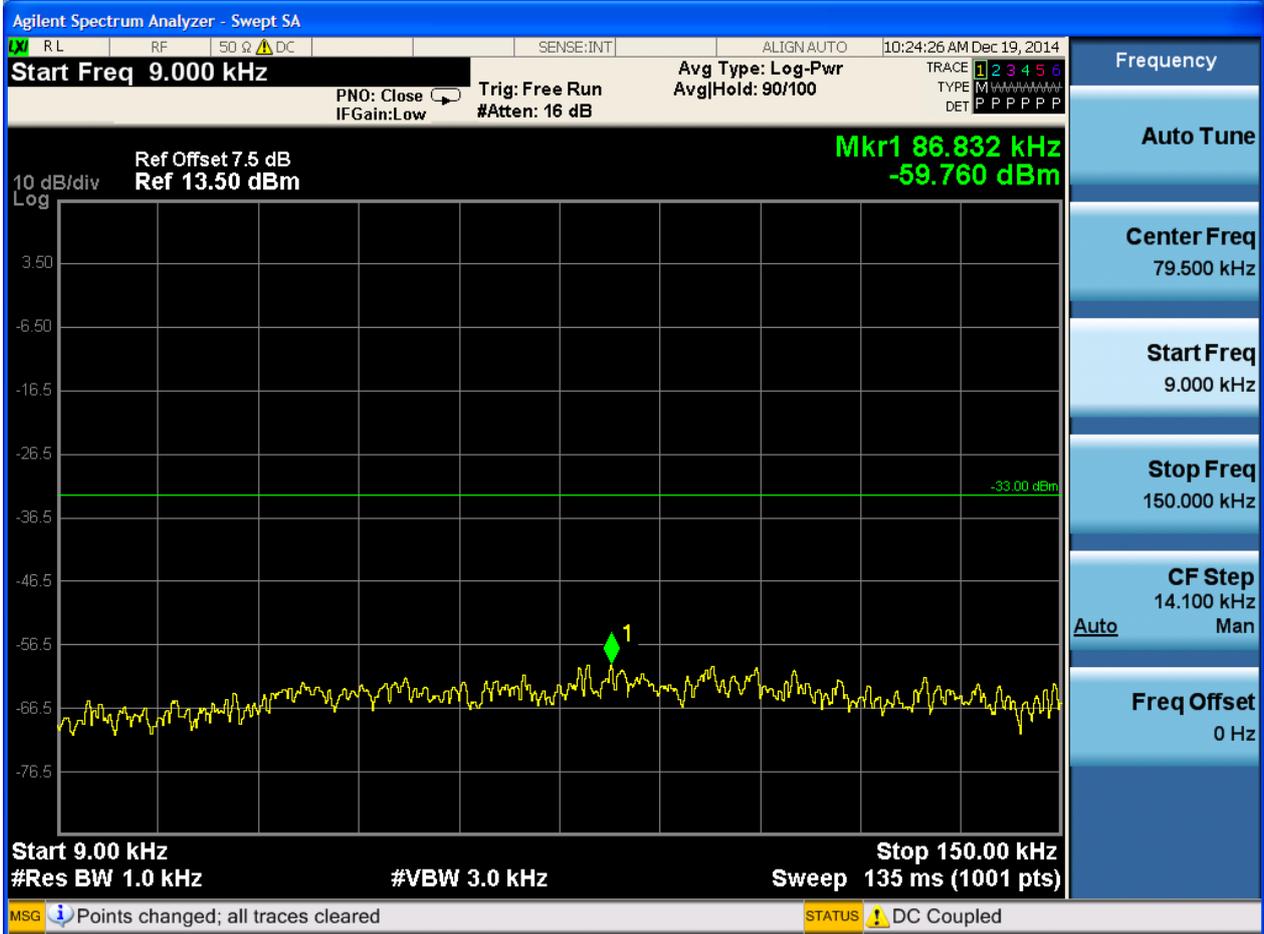




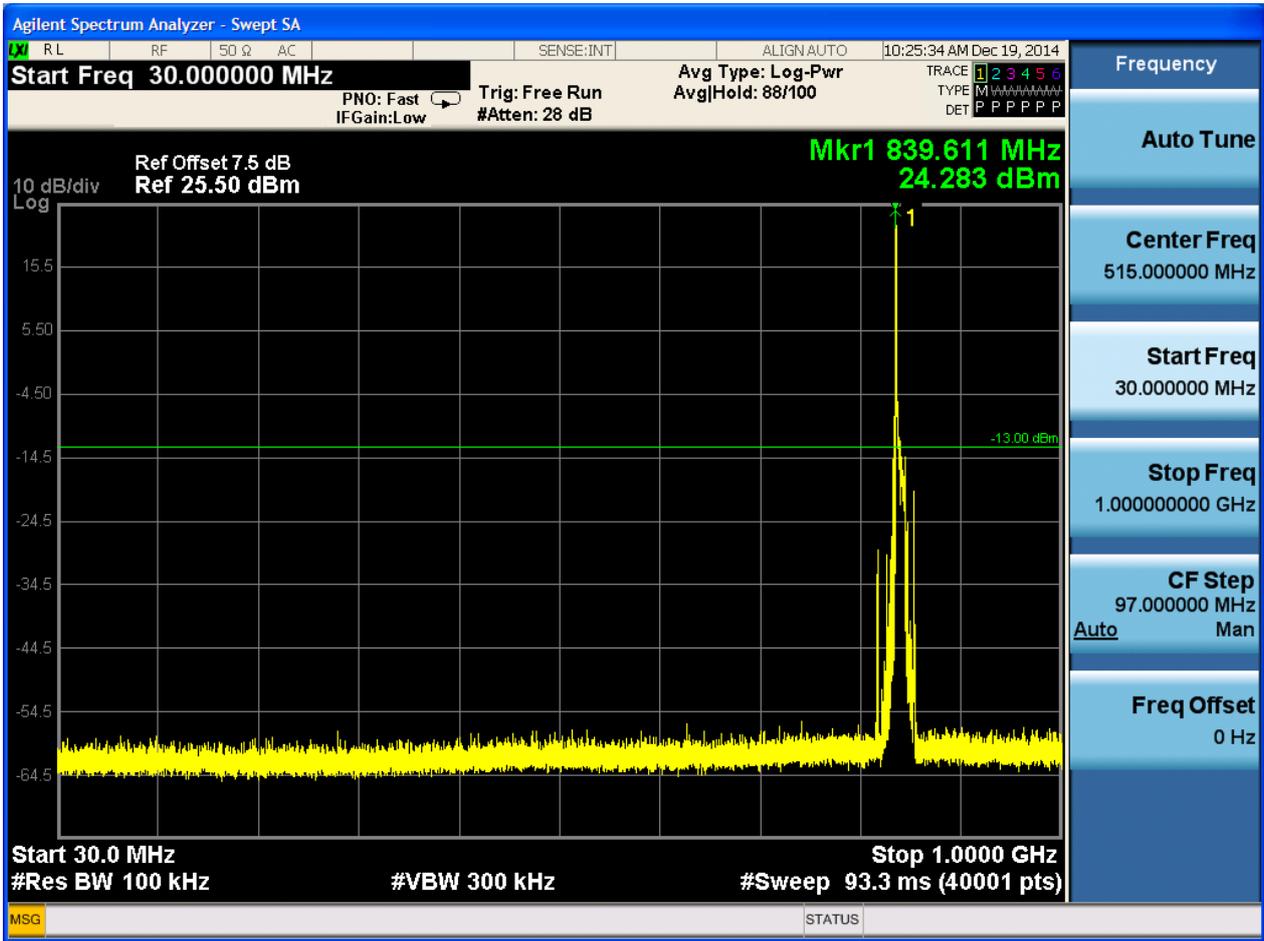


6.3.1.1.2.3 Test Channel = HCH

6.3.1.1.2.3.1 Test RB = RB1#0







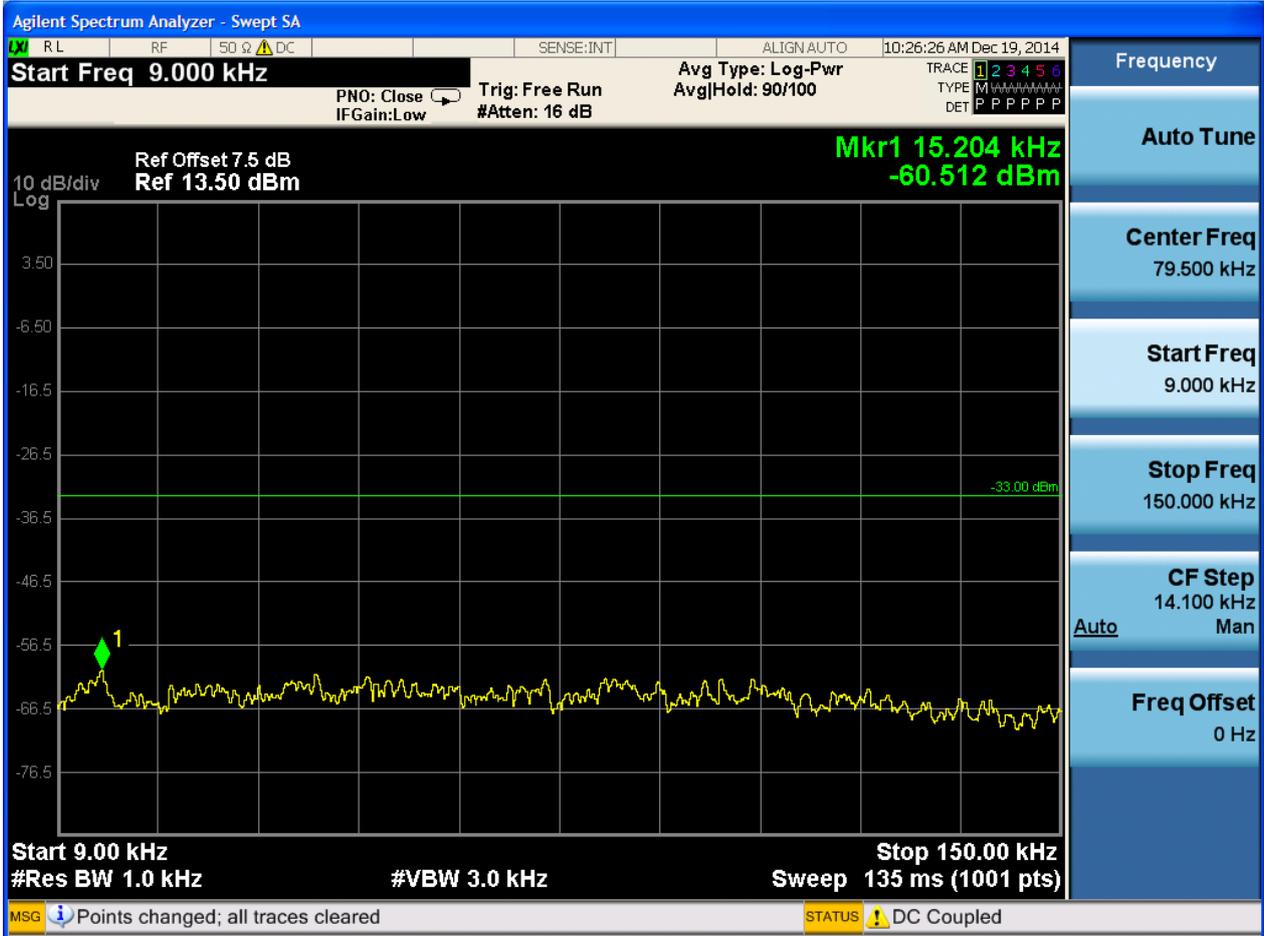


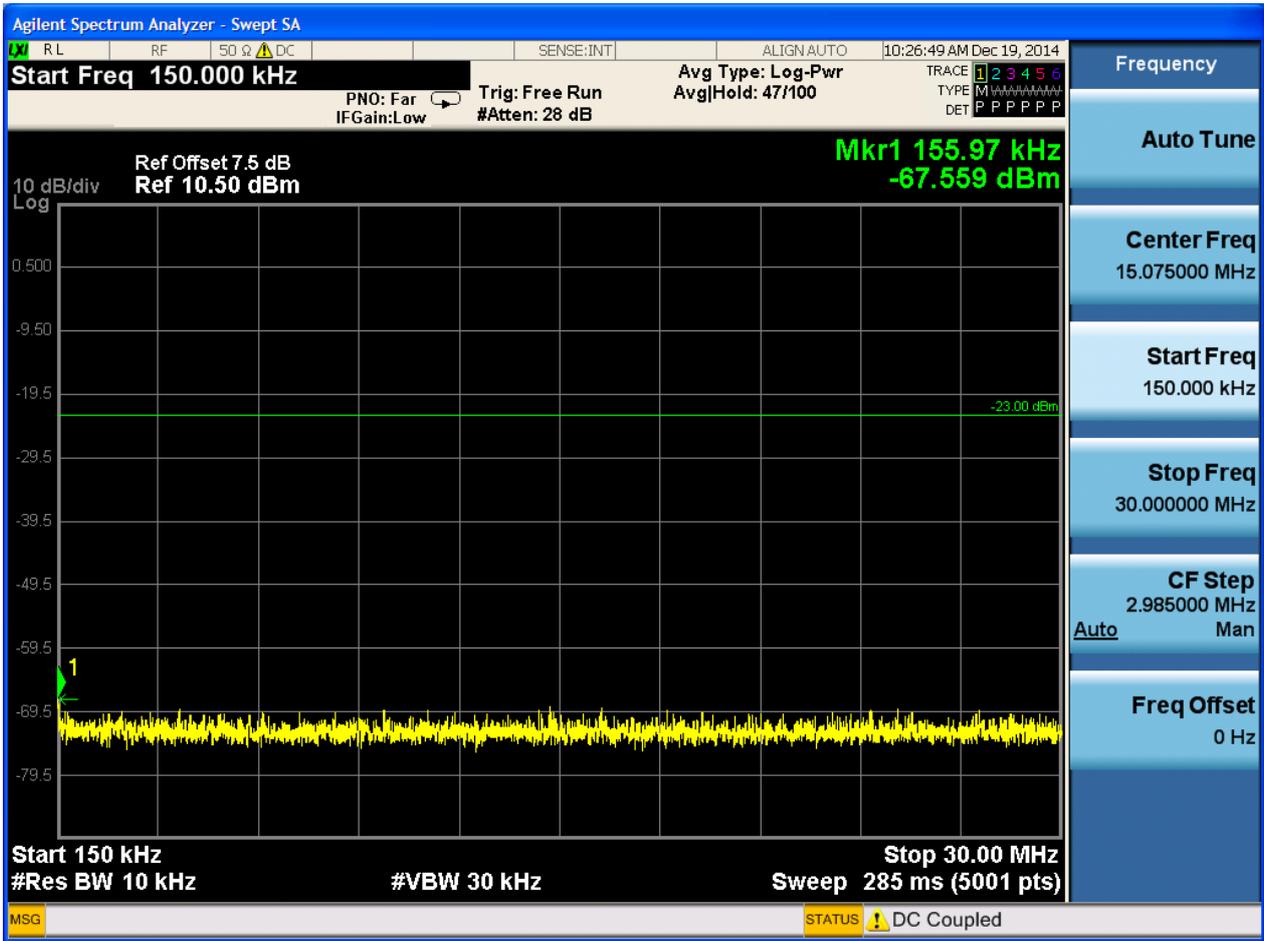
6.3.1.2 Test Mode = LTE/TM2

6.3.1.2.1 Test Bandwidth = 5

6.3.1.2.1.1 Test Channel = LCH

6.3.1.2.1.1.1 Test RB = RB1#0



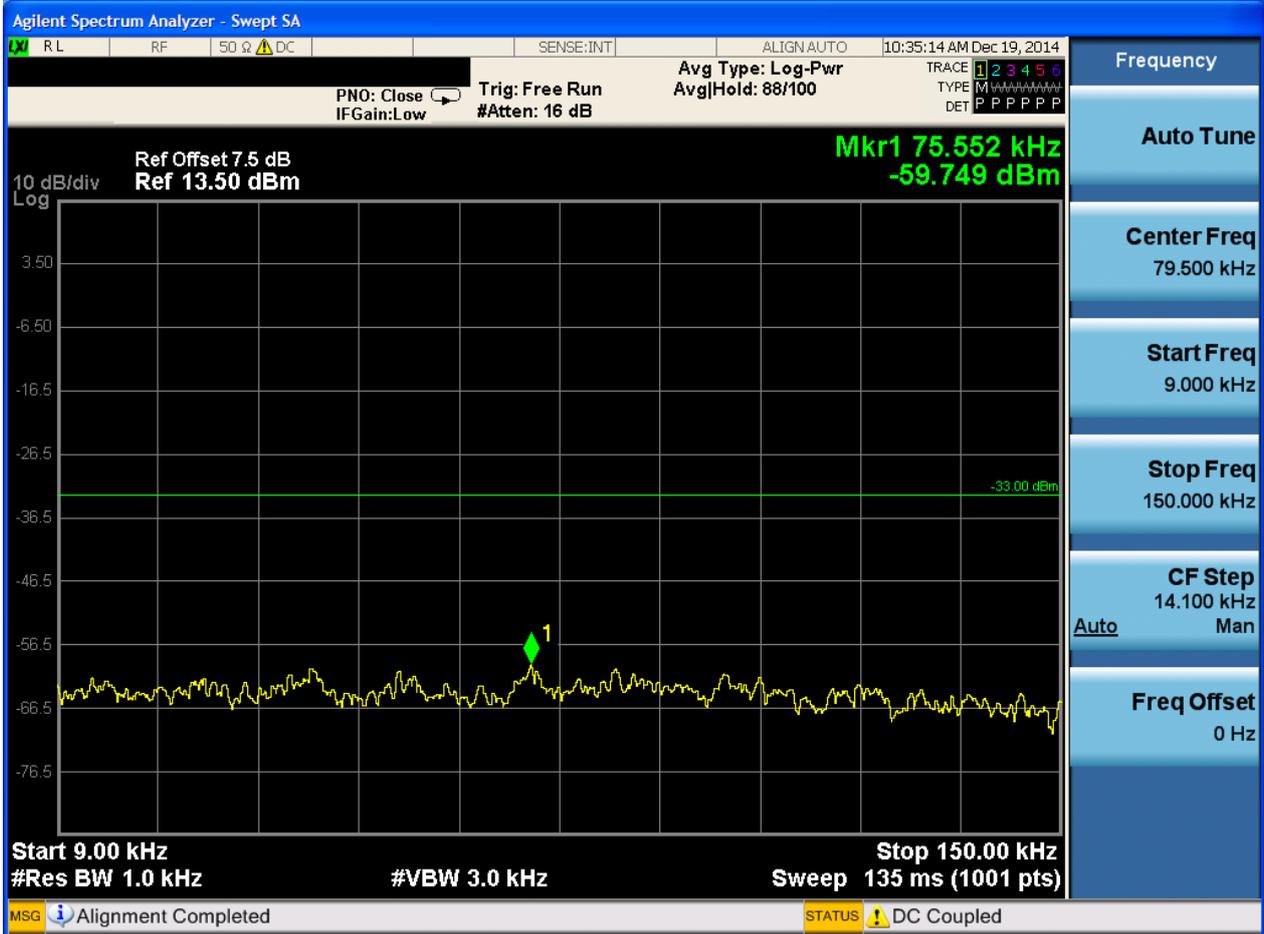




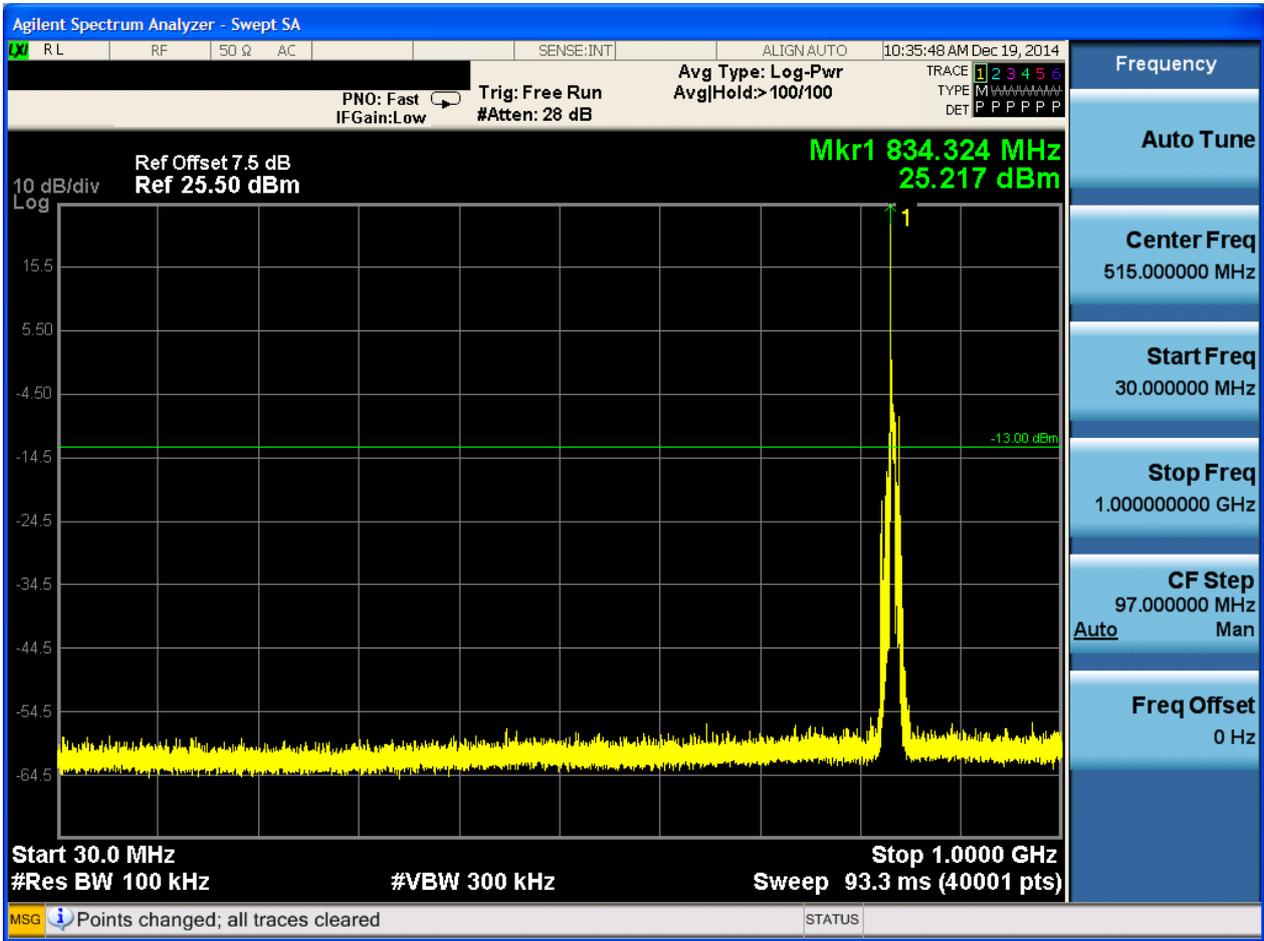


6.3.1.2.1.2 Test Channel = MCH

6.3.1.2.1.2.1 Test RB = RB1#0



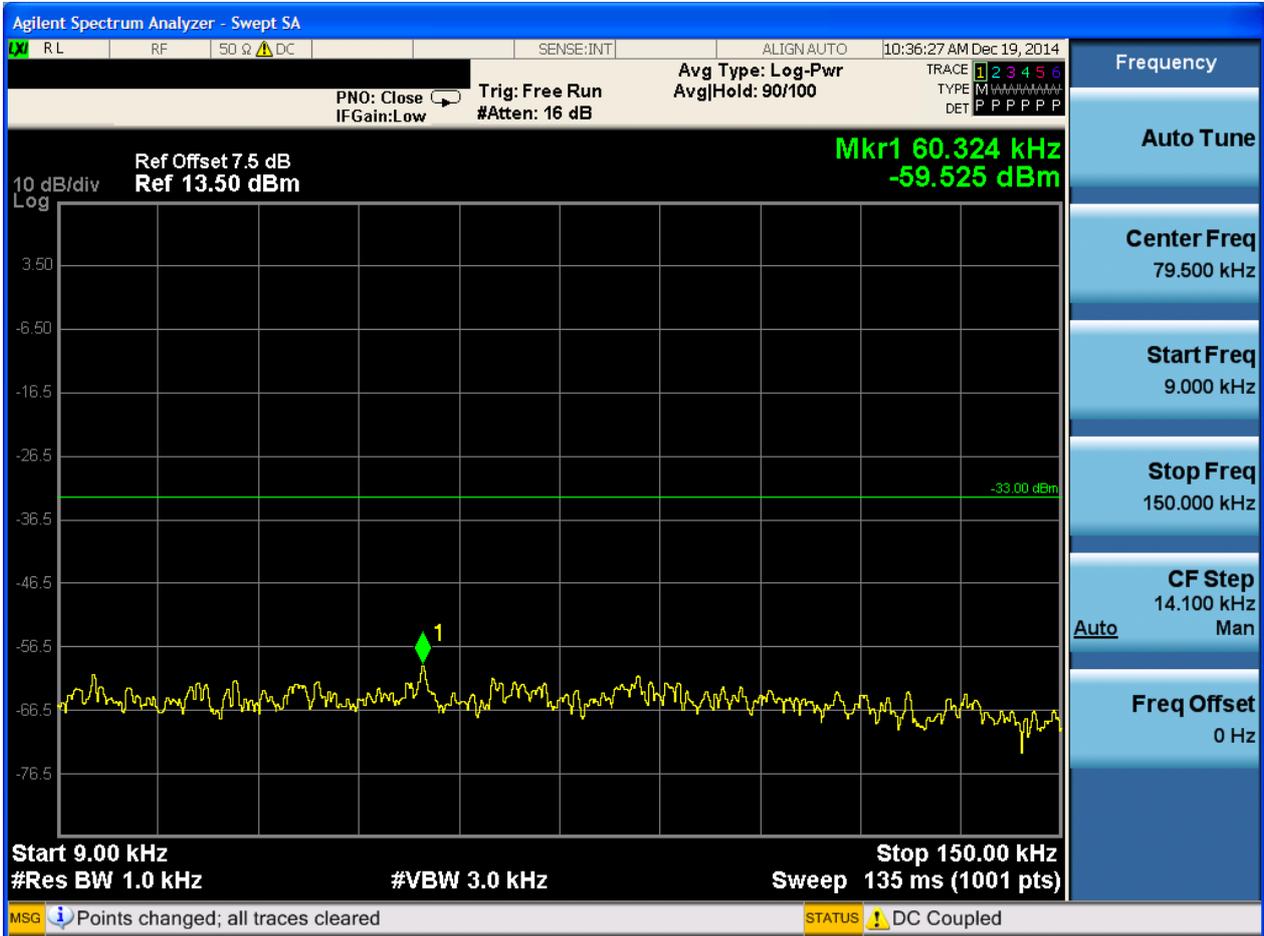






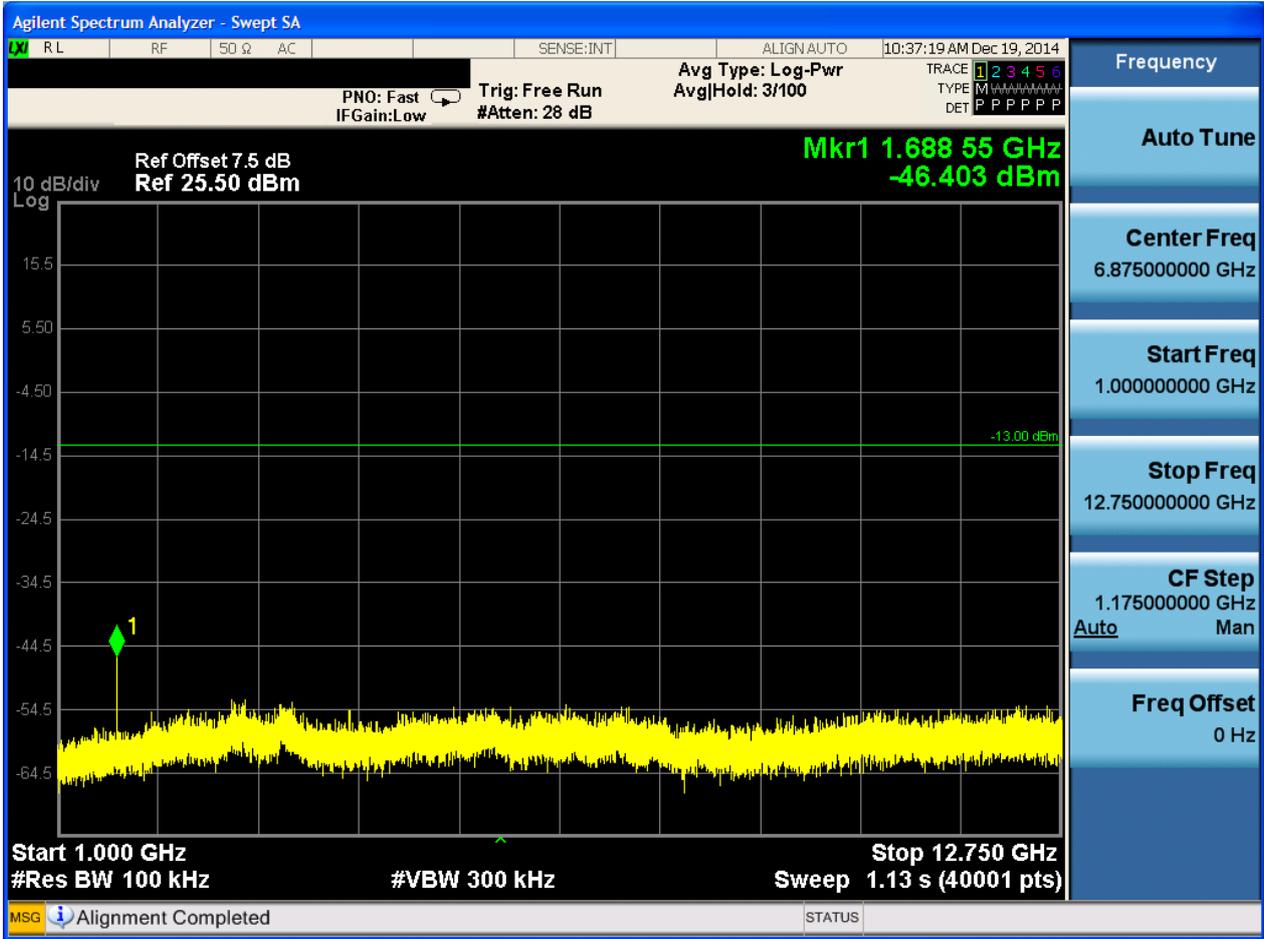
6.3.1.2.1.3 Test Channel = HCH

6.3.1.2.1.3.1 Test RB = RB1#0





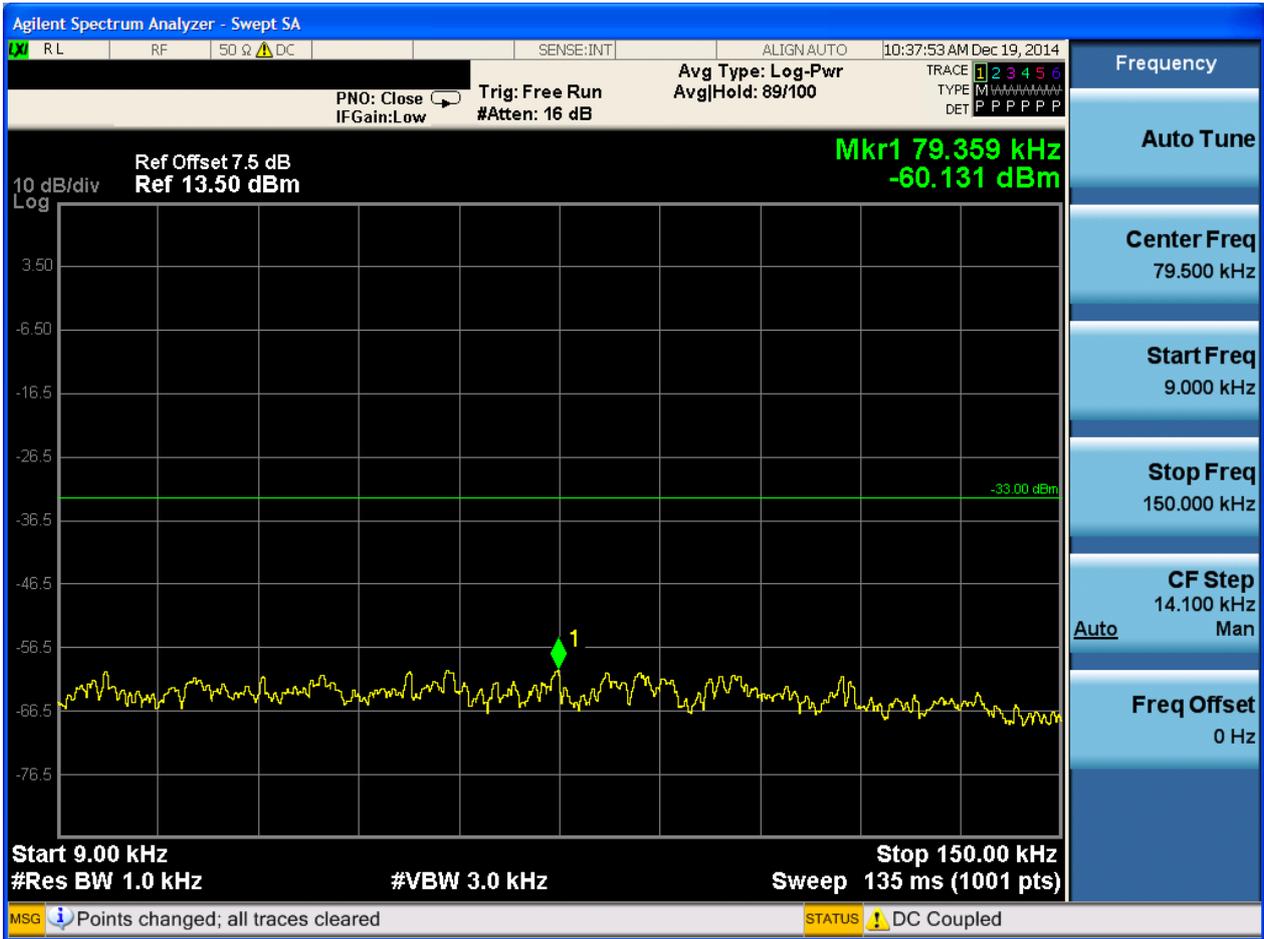




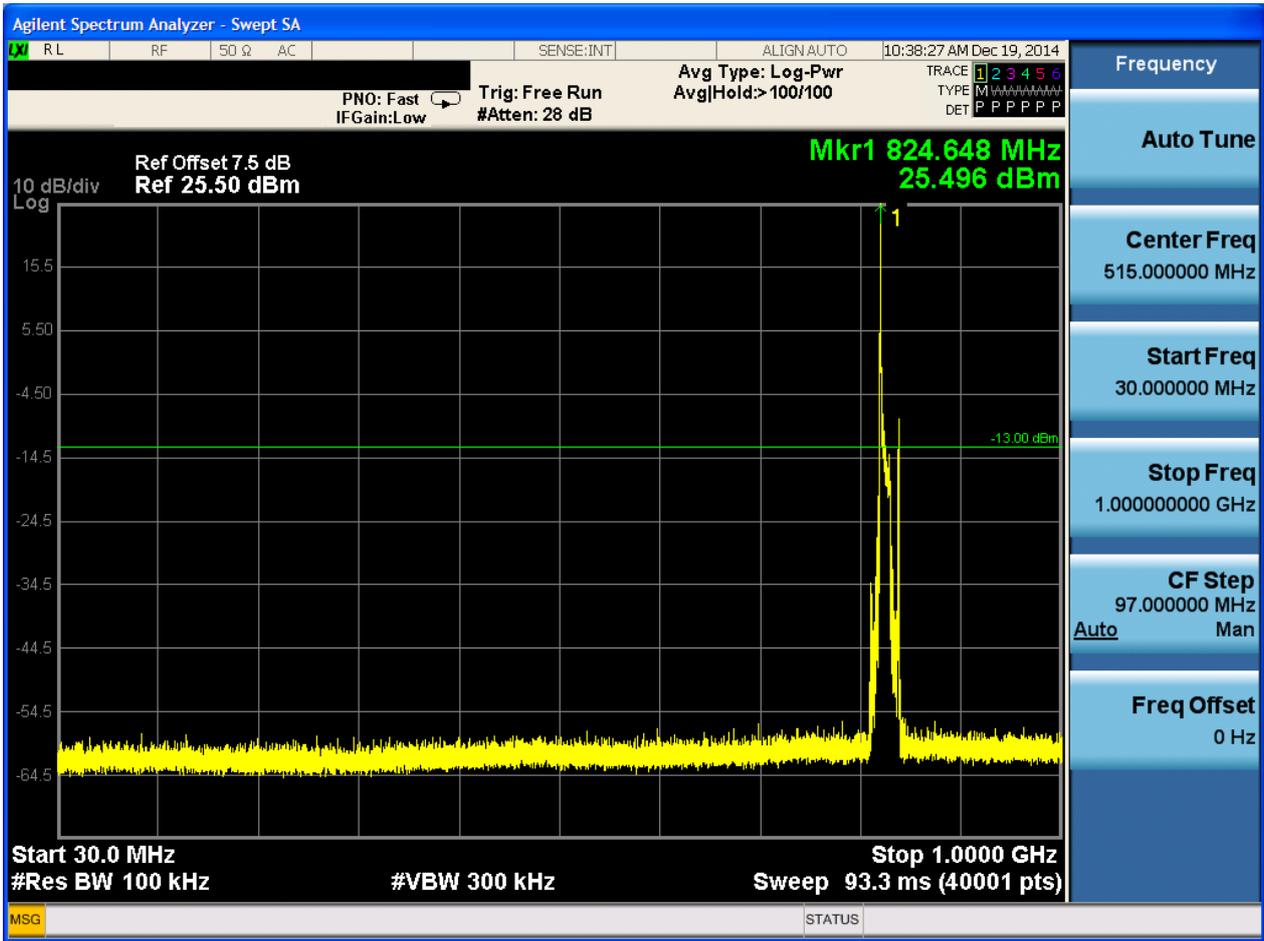
6.3.1.2.2 Test Bandwidth = 10

6.3.1.2.2.1 Test Channel = LCH

6.3.1.2.2.1.1 Test RB = RB1#0



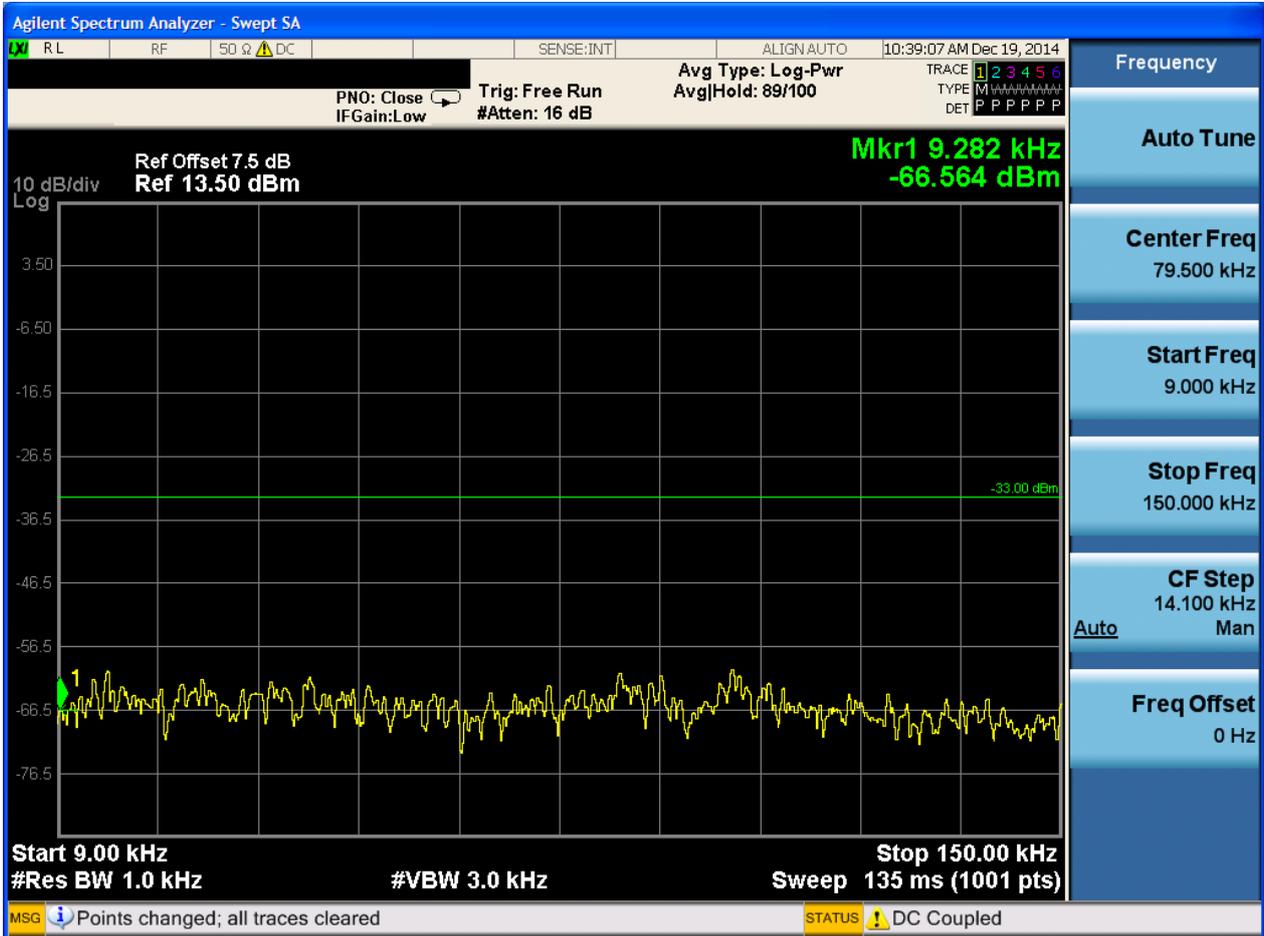




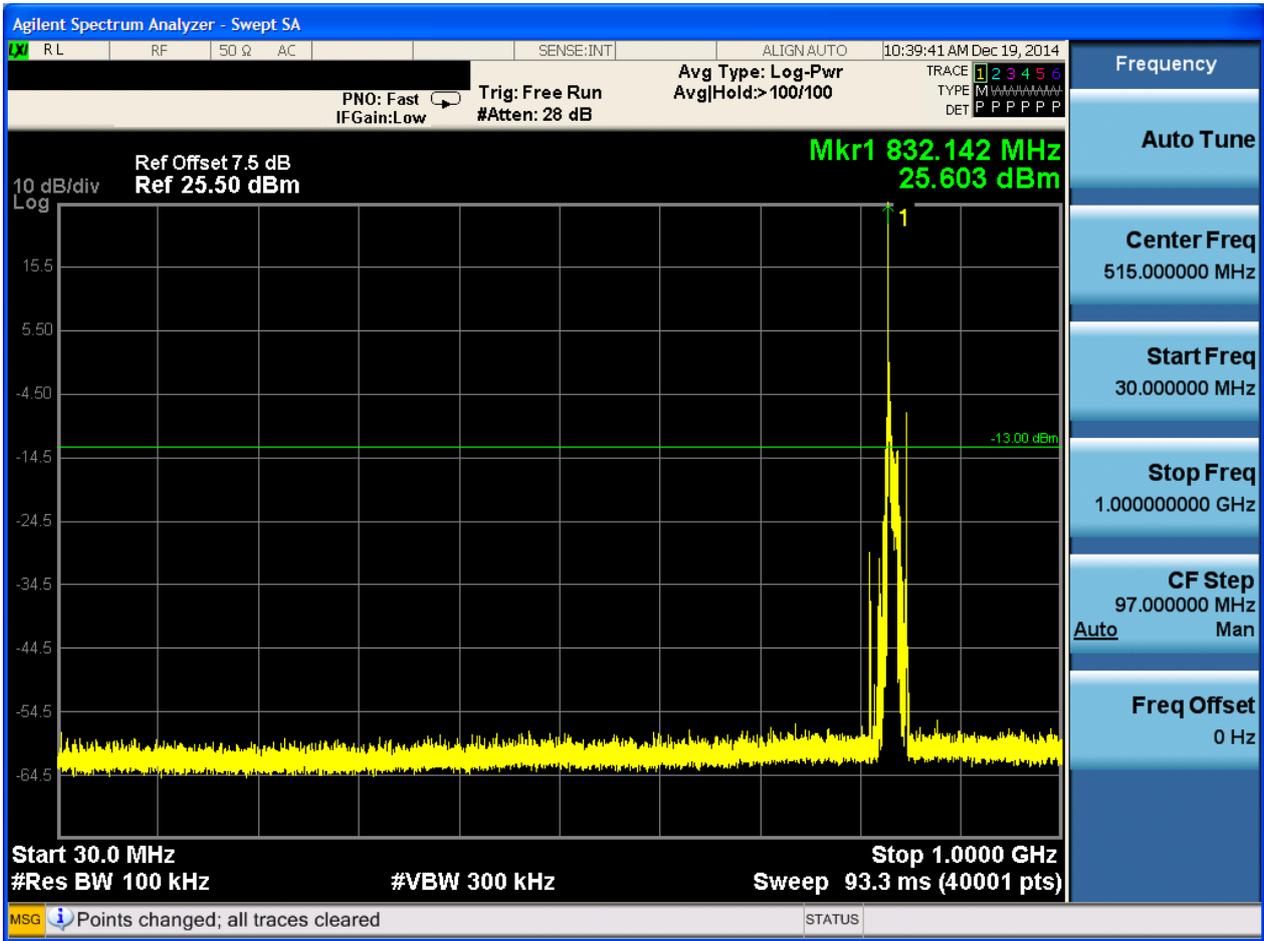


6.3.1.2.2.2 Test Channel = MCH

6.3.1.2.2.2.1 Test RB = RB1#0



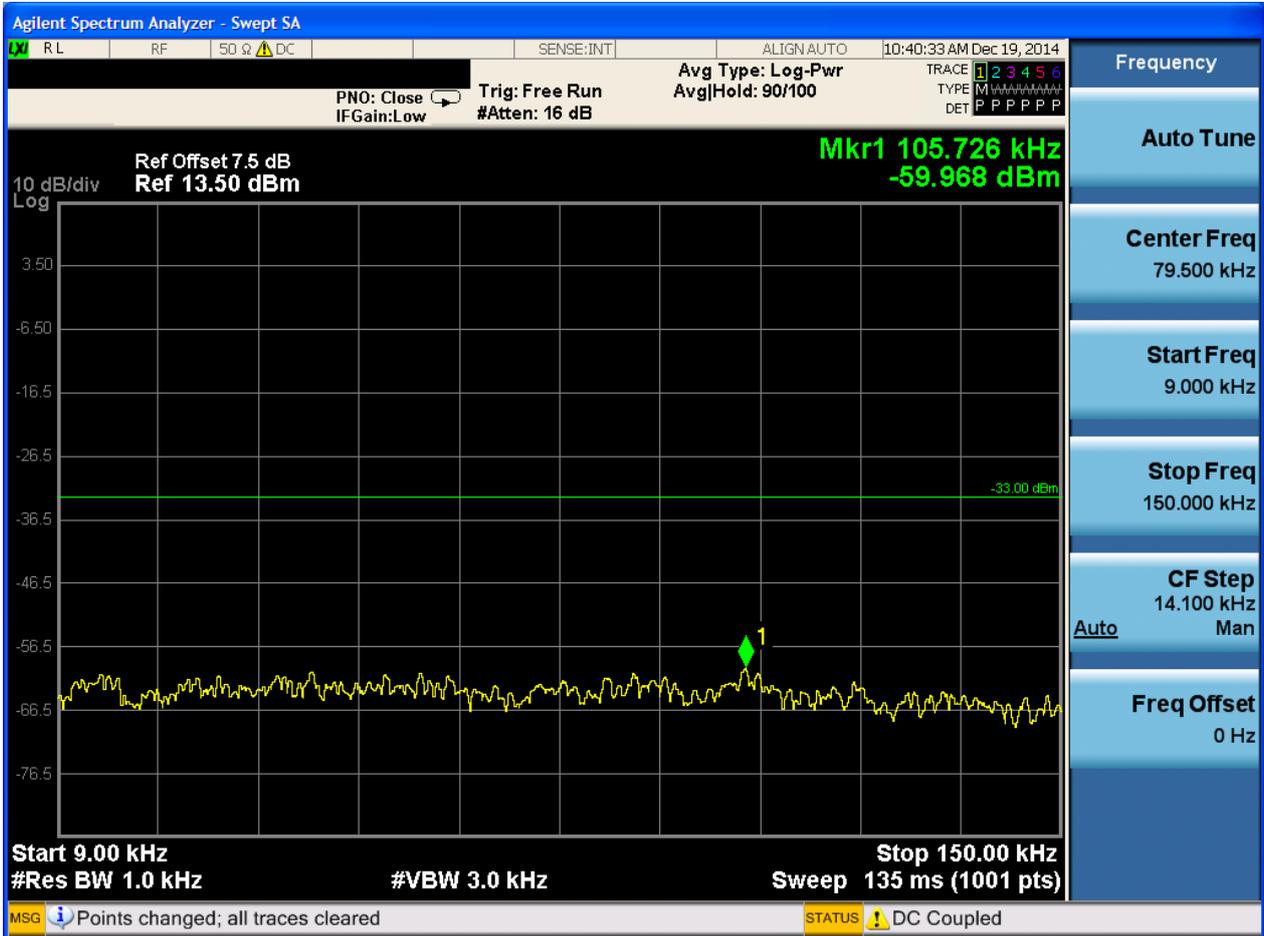




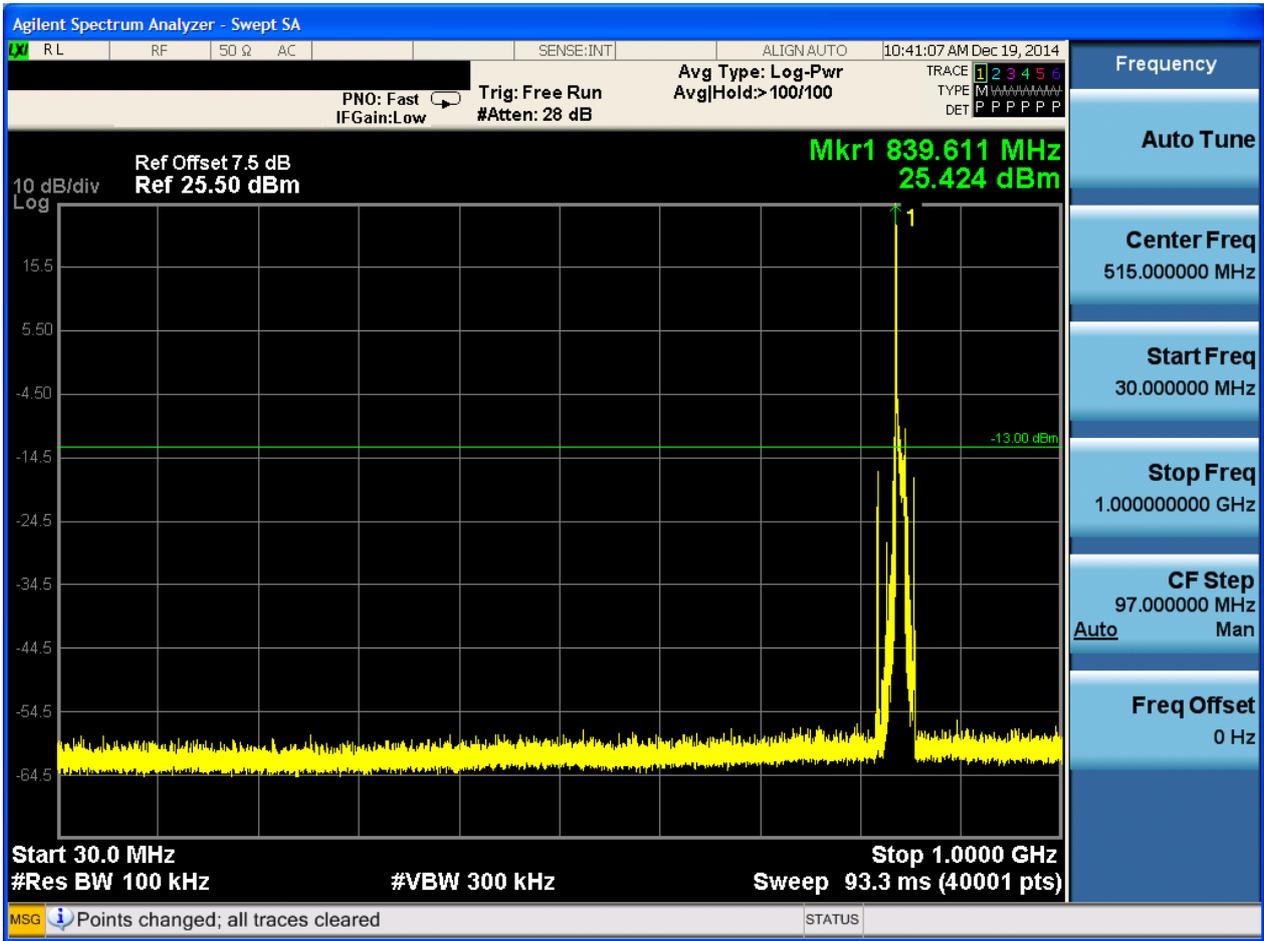


6.3.1.2.2.3 Test Channel = HCH

6.3.1.2.2.3.1 Test RB = RB1#0









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

Note:

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

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

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

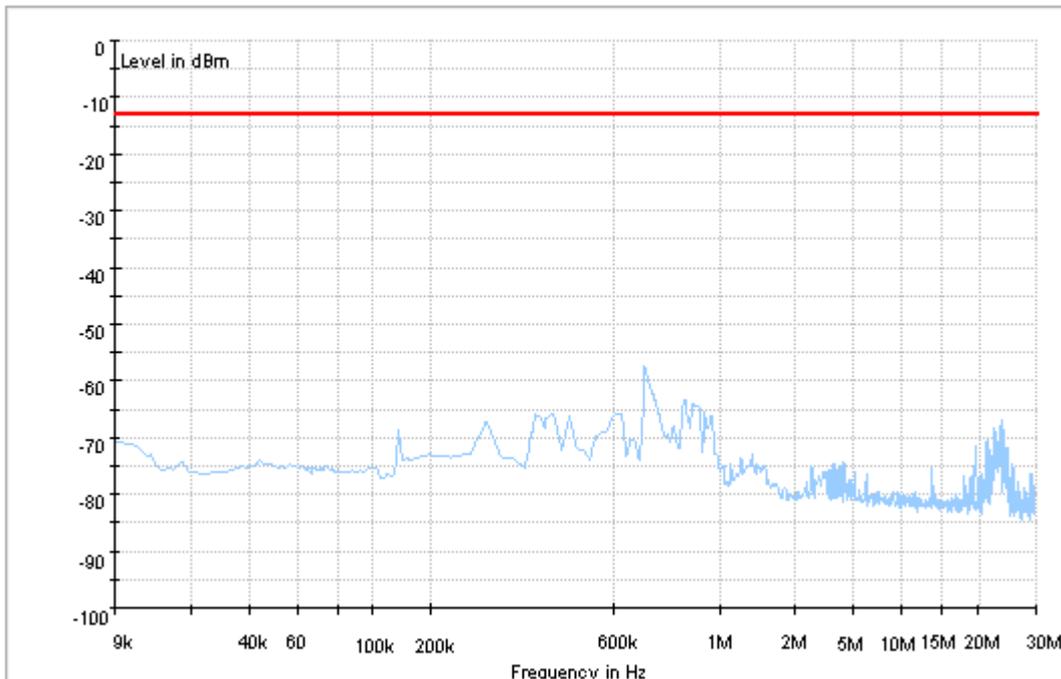
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

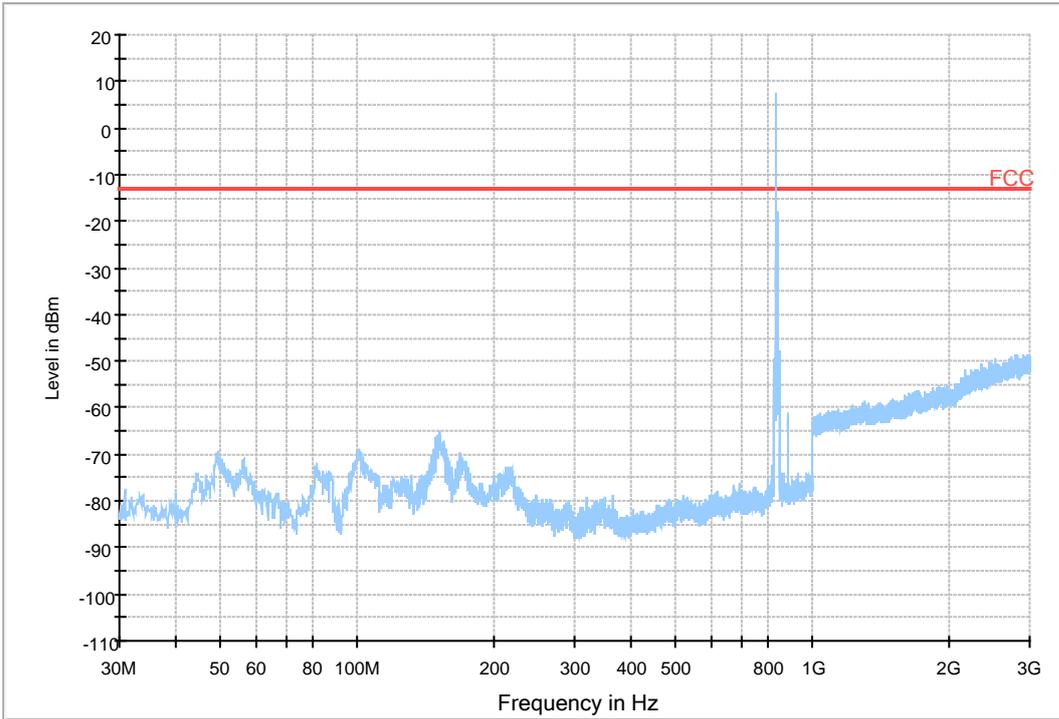
#### 7.3 For LTE

##### 7.3.1 Test Band = BAND5

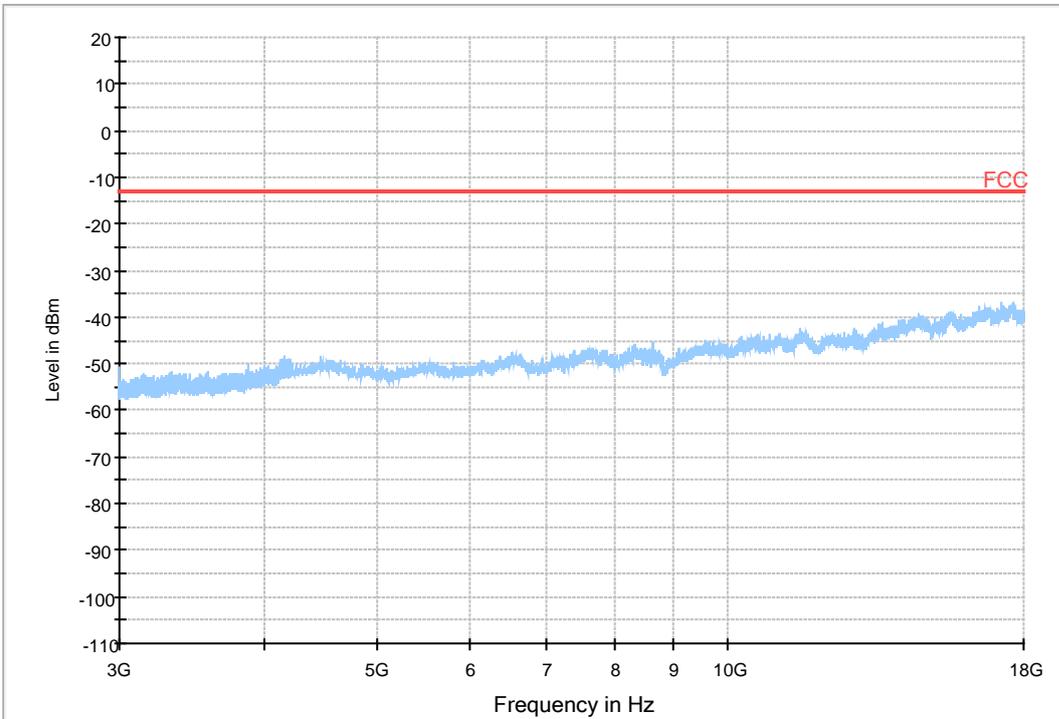
##### 7.3.1.1 Test Bandwidth = 5



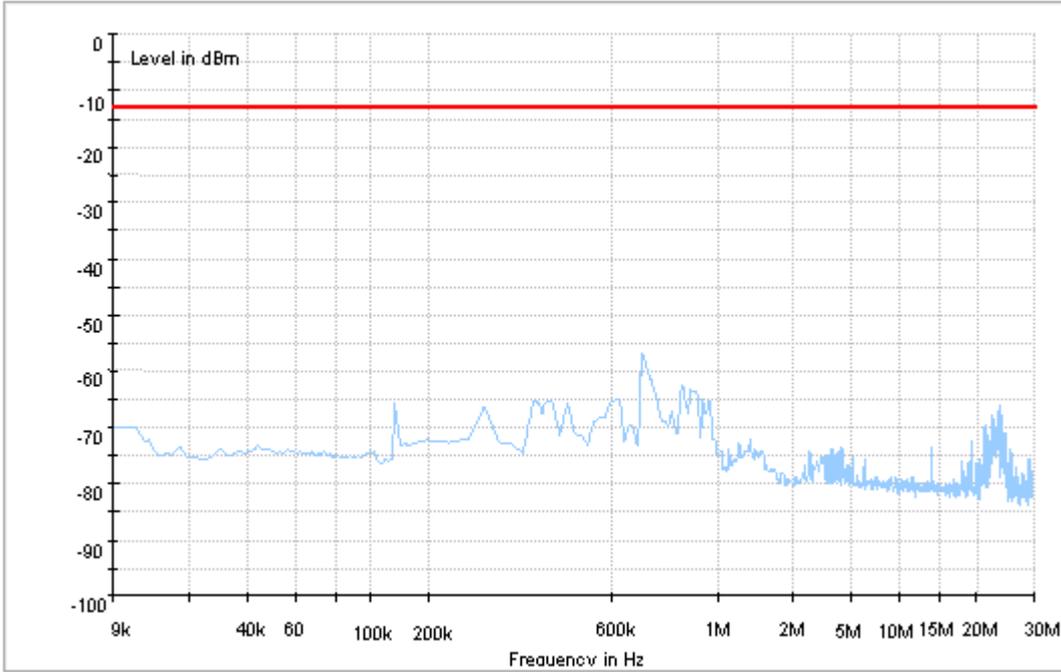
Copy of FCC PART22 LTE Band 5\_L



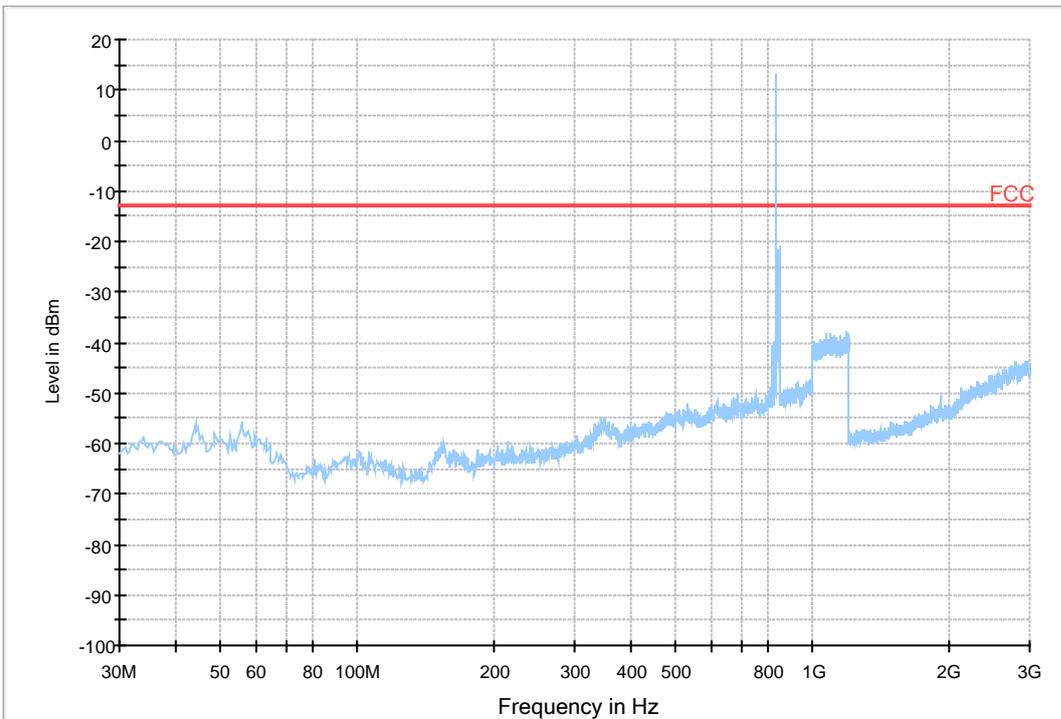
Copy of FCC PART22 LTE Band 5\_H



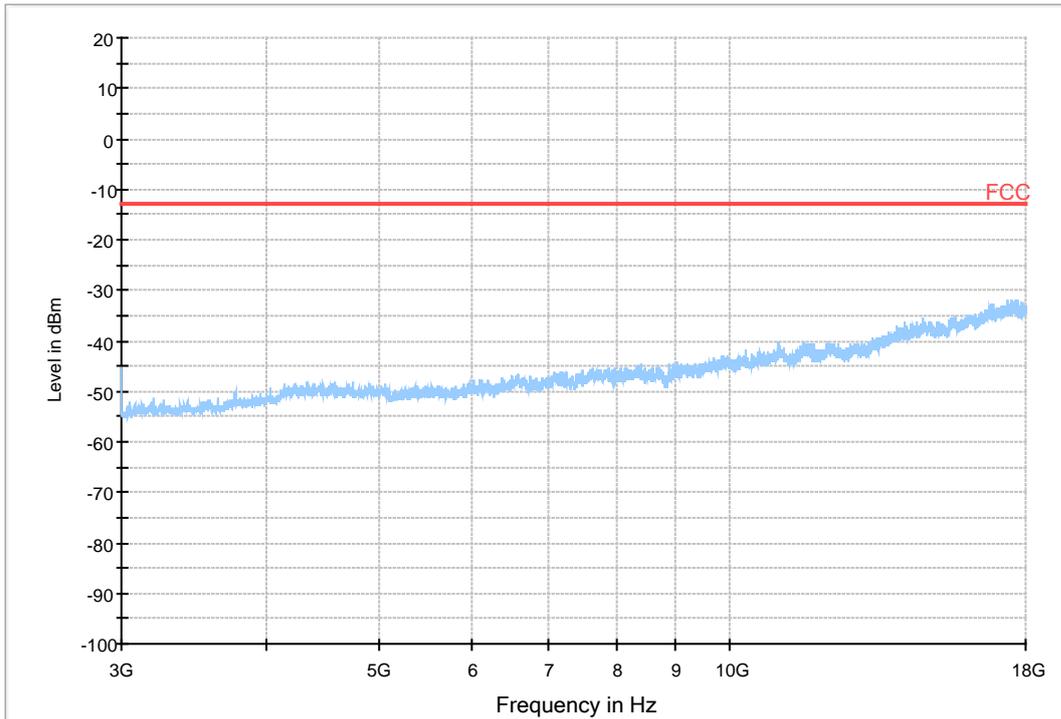
### 7.3.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G\_L



Copy of RSE-TX-DIRECTOR BELOW 1G\_H



## 8Appendix\_H: Frequency Stability

### 8.3 For LTE

#### 8.3.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	5	LCH	TN	VL	-5.48	-0.00663	PASS
					VN	-6.44	-0.00779	PASS
					VH	-12.35	-0.01494	PASS
			MCH	TN	VL	0.67	0.0008	PASS
					VN	3.05	0.00365	PASS
					VH	1.65	0.00197	PASS
		HCH	TN	VL	1.3	0.00154	PASS	
				VN	3.68	0.00435	PASS	
				VH	0.83	0.00098	PASS	
		10	LCH	TN	VL	-57.69	-0.06959	PASS
					VN	-55.73	-0.06723	PASS
					VH	6.77	0.00817	PASS
	MCH		TN	VL	-0.09	-0.00011	PASS	
				VN	0.8	0.00032	PASS	
				VH	1.82	0.00105	PASS	
	HCH	TN	VL	4.23	0.00242	PASS		
			VN	2.83	0.00162	PASS		
			VH	2.19	0.00125	PASS		
	LTE/TM2	5	LCH	TN	VL	-5.29	-0.00309	PASS
					VN	-5.08	-0.00297	PASS
					VH	-4.59	-0.00268	PASS
			MCH	TN	VL	-2.17	-0.00125	PASS
					VN	1.93	0.00111	PASS
					VH	0.79	0.00046	PASS
HCH		TN	VL	-4.06	-0.00232	PASS		
			VN	-5.08	-0.0029	PASS		
			VH	-2.85	-0.00163	PASS		
10		LCH	TN	VL	3.02	0.00176	PASS	
				VN	2.16	0.00126	PASS	
		MCH	TN	VH	3.68	0.00215	PASS	
	VL			0.99	0.00057	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.76	0.00044	PASS
					VH	1.66	0.00096	PASS
			HCH	TN	VL	2.57	0.00147	PASS
					VN	5.11	0.00292	PASS
					VH	5.06	0.00289	PASS

8.3.2 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	5	LCH	VN	-30	-7.11	-0.00416	PASS
					-20	0.11	0.00013	PASS
					-10	3.35	0.00405	PASS
					0	-0.59	-0.00071	PASS
					10	2.68	0.00324	PASS
					20	2.9	0.00351	PASS
					30	4.99	0.00604	PASS
					40	-1.19	-0.00144	PASS
			50		2.1	0.00254	PASS	
			MCH		-30	4.51	0.00539	PASS
					-20	6.61	0.0079	PASS
					-10	0.92	0.0011	PASS
					0	-5.55	-0.0032	PASS
					10	-5.61	-0.00324	PASS
					20	-4.09	-0.00236	PASS
					30	-6.39	-0.00369	PASS
					40	-27.31	-0.01576	PASS
			50		-10.09	-0.00582	PASS	
			HCH		-30	7.6	0.00433	PASS
					-20	2.03	0.00116	PASS
					-10	3.63	0.00207	PASS
					0	-9.34	-0.00532	PASS
					10	12.33	0.00703	PASS
					20	-6.09	-0.00347	PASS
		30		-5.88	-0.00335	PASS		
		40		12.92	0.00736	PASS		
		50	9.11	0.00519	PASS			
		10	LCH	VN	-30	-10.26	-0.00599	PASS
					-20	-8.97	-0.00524	PASS
					-10	9.04	0.00528	PASS
					0	1.49	0.00087	PASS
					10	20.1	0.01174	PASS
					20	8.14	0.00476	PASS
					30	-0.26	-0.00015	PASS
					40	-0.37	-0.00022	PASS
					50	-2.99	-0.00175	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	VN	-30	-7.41	-0.00428	PASS	
					-20	-9.03	-0.00521	PASS	
					-10	-2.33	-0.00134	PASS	
					0	1.09	0.00063	PASS	
					10	-16.95	-0.00978	PASS	
					20	-9.74	-0.00562	PASS	
					30	2.03	0.00117	PASS	
					40	-0.17	-0.0001	PASS	
					50	-2.27	-0.00131	PASS	
			HCH	VN	-30	4.11	0.00234	PASS	
					-20	6.34	0.00362	PASS	
					-10	-12.12	-0.00691	PASS	
					0	-8.33	-0.00475	PASS	
					10	8.75	0.00499	PASS	
					20	-16.14	-0.0092	PASS	
					30	11.39	0.0065	PASS	
					40	1.66	0.00095	PASS	
					50	-1.06	-0.0006	PASS	
				LCH	VN	-30	-2.5	-0.00146	PASS
						-20	-0.83	-0.00049	PASS
						-10	-4.28	-0.0025	PASS
						0	3.72	0.0045	PASS
						10	3.13	0.00379	PASS
						20	-0.94	-0.00114	PASS
						30	4.71	0.0057	PASS
						40	1.99	0.00241	PASS
						50	5.19	0.00628	PASS
				MCH	VN	-30	3.85	0.0046	PASS
						-20	-3.3	-0.00395	PASS
						-10	-0.93	-0.00111	PASS
						0	-2.06	-0.00246	PASS
						10	4.53	0.00542	PASS
						20	5.92	0.00708	PASS
						30	3.96	0.00473	PASS
						40	2.39	0.00286	PASS
						50	0.03	0.00004	PASS
	HCH	VN	-30	6.15	0.00727	PASS			
			-20	1.89	0.00223	PASS			
			-10	7.44	0.00879	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	1.79	0.00211	PASS		
					10	3.65	0.00431	PASS		
					20	-3.72	-0.00439	PASS		
					30	-0.66	-0.00078	PASS		
					40	2.47	0.00292	PASS		
					50	11.32	0.01337	PASS		
		10	LCH	VN	-30	1.54	0.00186	PASS		
					-20	-0.4	-0.00048	PASS		
					-10	-1.09	-0.00131	PASS		
					0	6.35	0.00766	PASS		
					10	-0.84	-0.00048	PASS		
					20	-1.2	-0.00069	PASS		
					30	-2.16	-0.00123	PASS		
					40	-1.6	-0.00091	PASS		
					50	1.04	0.00059	PASS		
					MCH	VN	-30	-1.06	-0.00062	PASS
							-20	0.14	0.00008	PASS
							-10	-0.23	-0.00013	PASS
							0	-0.2	-0.00012	PASS
							10	-0.21	-0.00012	PASS
							20	0.64	0.00037	PASS
							30	1.66	0.00095	PASS
							40	2.07	0.00118	PASS
							50	1.42	0.00081	PASS
		HCH	VN	-30	-1.12	-0.00065	PASS			
				-20	-2.86	-0.00166	PASS			
				-10	-1.76	-0.00102	PASS			
				0	-1.75	-0.00101	PASS			
				10	-1.4	-0.00081	PASS			
				20	3.42	0.00197	PASS			
30	1.4			0.0008	PASS					
40	6.22			0.00356	PASS					
50	-1.49	-0.00085	PASS							

END