



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
BAND5	LTE/TM1	1.4	LCH	RB1#0	23.07	17.14	38.5	PASS
				RB1#3	23.15	17.22	38.5	PASS
				RB1#5	22.97	17.04	38.5	PASS
				RB3#0	23.05	17.12	38.5	PASS
				RB3#2	23.13	17.2	38.5	PASS
				RB3#3	23.04	17.11	38.5	PASS
				RB6#0	21.77	15.84	38.5	PASS
			MCH	RB1#0	22.91	16.98	38.5	PASS
				RB1#3	22.92	16.99	38.5	PASS
				RB1#5	22.81	16.88	38.5	PASS
				RB3#0	22.82	16.89	38.5	PASS
				RB3#2	22.89	16.96	38.5	PASS
				RB3#3	22.82	16.89	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB6#0	21.56	15.63	38.5	PASS
			HCH	RB1#0	22.76	16.83	38.5	PASS
				RB1#3	22.91	16.98	38.5	PASS
				RB1#5	22.79	16.86	38.5	PASS
				RB3#0	22.78	16.85	38.5	PASS
				RB3#2	22.78	16.85	38.5	PASS
				RB3#3	22.75	16.82	38.5	PASS
				RB6#0	21.4	15.47	38.5	PASS
		3	LCH	RB1#0	22.94	17.01	38.5	PASS
				RB1#7	23.08	17.15	38.5	PASS
				RB1#14	22.54	16.61	38.5	PASS
				RB8#0	21.77	15.84	38.5	PASS
				RB8#4	21.7	15.77	38.5	PASS
				RB8#7	21.49	15.56	38.5	PASS
				RB15#0	21.63	15.7	38.5	PASS
			MCH	RB1#0	22.7	16.77	38.5	PASS
				RB1#7	22.91	16.98	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#14	22.65	16.72	38.5	PASS
				RB8#0	21.52	15.59	38.5	PASS
				RB8#4	21.59	15.66	38.5	PASS
				RB8#7	21.45	15.52	38.5	PASS
				RB15#0	21.51	15.58	38.5	PASS
			HCH	RB1#0	22.6	16.67	38.5	PASS
				RB1#7	22.88	16.95	38.5	PASS
				RB1#14	22.61	16.68	38.5	PASS
				RB8#0	21.36	15.43	38.5	PASS
				RB8#4	21.38	15.45	38.5	PASS
				RB8#7	21.33	15.4	38.5	PASS
				RB15#0	21.35	15.42	38.5	PASS
		5	LCH	RB1#0	22.89	16.96	38.5	PASS
				RB1#13	22.87	16.94	38.5	PASS
				RB1#24	22.38	16.45	38.5	PASS
				RB12#0	21.67	15.74	38.5	PASS
				RB12#6	21.63	15.7	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB12#13	21.25	15.32	38.5	PASS
				RB25#0	21.35	15.42	38.5	PASS
			MCH	RB1#0	22.59	16.66	38.5	PASS
				RB1#13	22.87	16.94	38.5	PASS
				RB1#24	22.47	16.54	38.5	PASS
				RB12#0	21.5	15.57	38.5	PASS
				RB12#6	21.57	15.64	38.5	PASS
				RB12#13	21.38	15.45	38.5	PASS
				RB25#0	21.39	15.46	38.5	PASS
			HCH	RB1#0	22.6	16.67	38.5	PASS
				RB1#13	22.75	16.82	38.5	PASS
				RB1#24	22.41	16.48	38.5	PASS
				RB12#0	21.37	15.44	38.5	PASS
				RB12#6	21.44	15.51	38.5	PASS
				RB12#13	21.19	15.26	38.5	PASS
				RB25#0	21.31	15.38	38.5	PASS
		10	LCH	RB1#0	22.77	16.84	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#25	22.74	16.81	38.5	PASS
				RB1#49	22.25	16.32	38.5	PASS
				RB25#0	21.35	15.42	38.5	PASS
				RB25#13	21.26	15.33	38.5	PASS
				RB25#25	21.02	15.09	38.5	PASS
				RB50#0	21.18	15.25	38.5	PASS
			MCH	RB1#0	22.47	16.54	38.5	PASS
				RB1#25	22.9	16.97	38.5	PASS
				RB1#49	22.15	16.22	38.5	PASS
				RB25#0	21.31	15.38	38.5	PASS
				RB25#13	21.41	15.48	38.5	PASS
				RB25#25	21.2	15.27	38.5	PASS
				RB50#0	21.15	15.22	38.5	PASS
			HCH	RB1#0	22.42	16.49	38.5	PASS
				RB1#25	22.79	16.86	38.5	PASS
				RB1#49	22.22	16.29	38.5	PASS
				RB25#0	21.3	15.37	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#13	21.41	15.48	38.5	PASS
				RB25#25	21.2	15.27	38.5	PASS
				RB50#0	21.33	15.4	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.82	15.89	38.5	PASS
				RB1#3	22	16.07	38.5	PASS
				RB1#5	21.81	15.88	38.5	PASS
				RB3#0	21.81	15.88	38.5	PASS
				RB3#2	21.84	15.91	38.5	PASS
				RB3#3	21.69	15.76	38.5	PASS
				RB6#0	21.36	15.43	38.5	PASS
			MCH	RB1#0	21.53	15.6	38.5	PASS
				RB1#3	21.78	15.85	38.5	PASS
				RB1#5	21.52	15.59	38.5	PASS
				RB3#0	21.6	15.67	38.5	PASS
				RB3#2	21.65	15.72	38.5	PASS
				RB3#3	21.43	15.5	38.5	PASS
				RB6#0	21.15	15.22	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.68	15.75	38.5	PASS
				RB1#3	21.77	15.84	38.5	PASS
				RB1#5	21.7	15.77	38.5	PASS
				RB3#0	21.31	15.38	38.5	PASS
				RB3#2	21.42	15.49	38.5	PASS
				RB3#3	21.27	15.34	38.5	PASS
				RB6#0	20.99	15.06	38.5	PASS
		3	LCH	RB1#0	21.47	15.54	38.5	PASS
				RB1#7	21.9	15.97	38.5	PASS
				RB1#14	21.33	15.4	38.5	PASS
				RB8#0	21.32	15.39	38.5	PASS
				RB8#4	21.22	15.29	38.5	PASS
				RB8#7	21.07	15.14	38.5	PASS
				RB15#0	21.07	15.14	38.5	PASS
			MCH	RB1#0	21.5	15.57	38.5	PASS
				RB1#7	21.84	15.91	38.5	PASS
				RB1#14	21.45	15.52	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB8#0	21.13	15.2	38.5	PASS
				RB8#4	21.15	15.22	38.5	PASS
				RB8#7	21.02	15.09	38.5	PASS
				RB15#0	20.98	15.05	38.5	PASS
			HCH	RB1#0	21.25	15.32	38.5	PASS
				RB1#7	21.53	15.6	38.5	PASS
				RB1#14	21.31	15.38	38.5	PASS
				RB8#0	20.92	14.99	38.5	PASS
				RB8#4	20.93	15	38.5	PASS
				RB8#7	20.88	14.95	38.5	PASS
				RB15#0	20.84	14.91	38.5	PASS
		5	LCH	RB1#0	21.69	15.76	38.5	PASS
				RB1#13	21.65	15.72	38.5	PASS
				RB1#24	21.19	15.26	38.5	PASS
				RB12#0	21.19	15.26	38.5	PASS
				RB12#6	21.16	15.23	38.5	PASS
				RB12#13	20.75	14.82	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.87	14.94	38.5	PASS
			MCH	RB1#0	21.39	15.46	38.5	PASS
				RB1#13	21.78	15.85	38.5	PASS
				RB1#24	21.35	15.42	38.5	PASS
				RB12#0	21.06	15.13	38.5	PASS
				RB12#6	21.09	15.16	38.5	PASS
				RB12#13	20.89	14.96	38.5	PASS
				RB25#0	20.89	14.96	38.5	PASS
			HCH	RB1#0	21.46	15.53	38.5	PASS
				RB1#13	21.59	15.66	38.5	PASS
				RB1#24	21.23	15.3	38.5	PASS
				RB12#0	20.95	15.02	38.5	PASS
				RB12#6	21.02	15.09	38.5	PASS
				RB12#13	20.74	14.81	38.5	PASS
				RB25#0	20.88	14.95	38.5	PASS
		10	LCH	RB1#0	21.47	15.54	38.5	PASS
				RB1#25	21.64	15.71	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#49	21.04	15.11	38.5	PASS
				RB25#0	20.87	14.94	38.5	PASS
				RB25#13	20.75	14.82	38.5	PASS
				RB25#25	20.57	14.64	38.5	PASS
				RB50#0	20.62	14.69	38.5	PASS
			MCH	RB1#0	21.2	15.27	38.5	PASS
				RB1#25	21.7	15.77	38.5	PASS
				RB1#49	20.88	14.95	38.5	PASS
				RB25#0	20.85	14.92	38.5	PASS
				RB25#13	20.91	14.98	38.5	PASS
				RB25#25	20.69	14.76	38.5	PASS
				RB50#0	20.64	14.71	38.5	PASS
			HCH	RB1#0	21.05	15.12	38.5	PASS
				RB1#25	21.53	15.6	38.5	PASS
				RB1#49	20.89	14.96	38.5	PASS
				RB25#0	20.82	14.89	38.5	PASS
				RB25#13	20.97	15.04	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#25	20.76	14.83	38.5	PASS
				RB50#0	20.89	14.96	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:

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

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

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

$$\text{SET Sweep time} = \text{auto-couple.}$$

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Viod

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

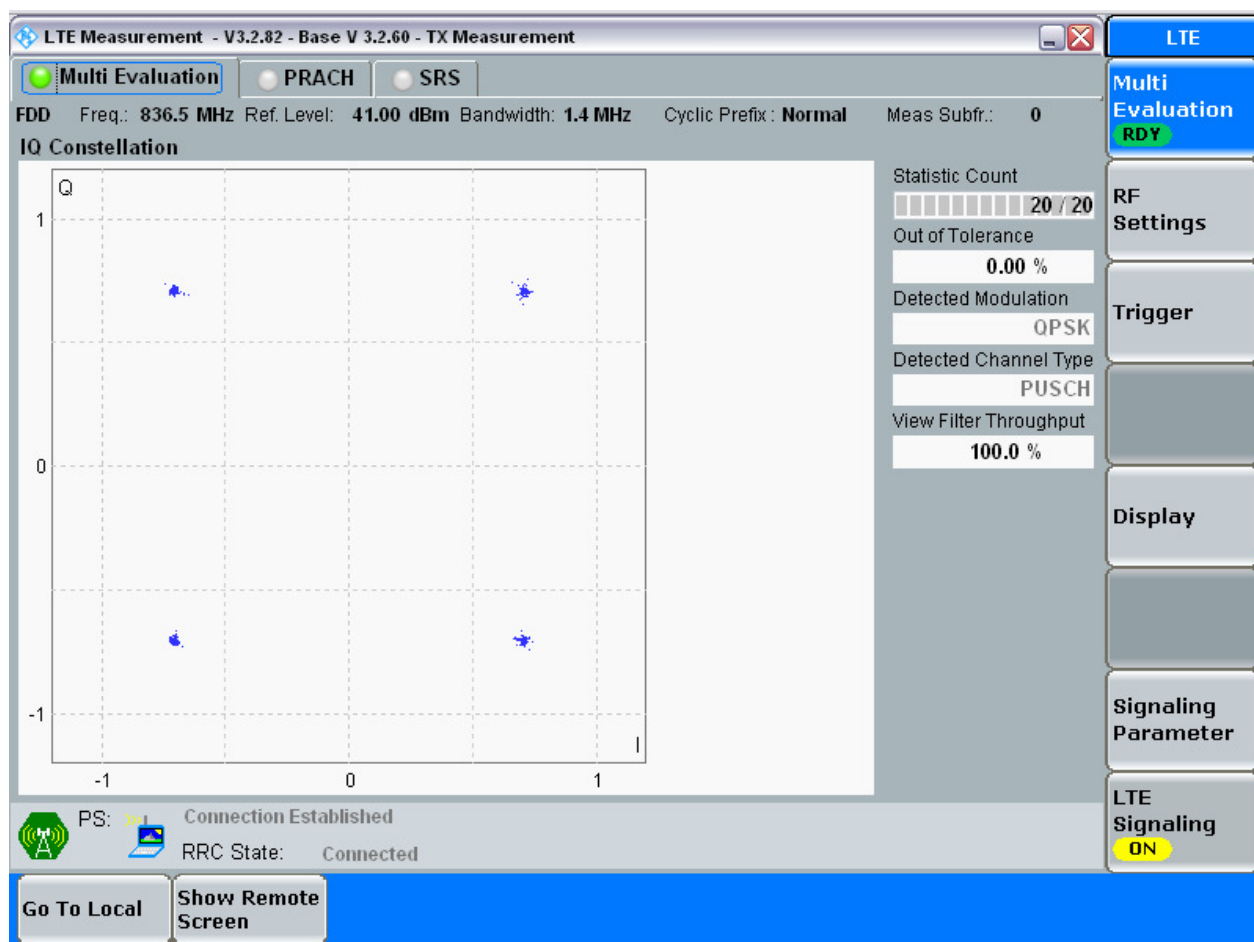
3.1.1 Test Band = BAND5

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

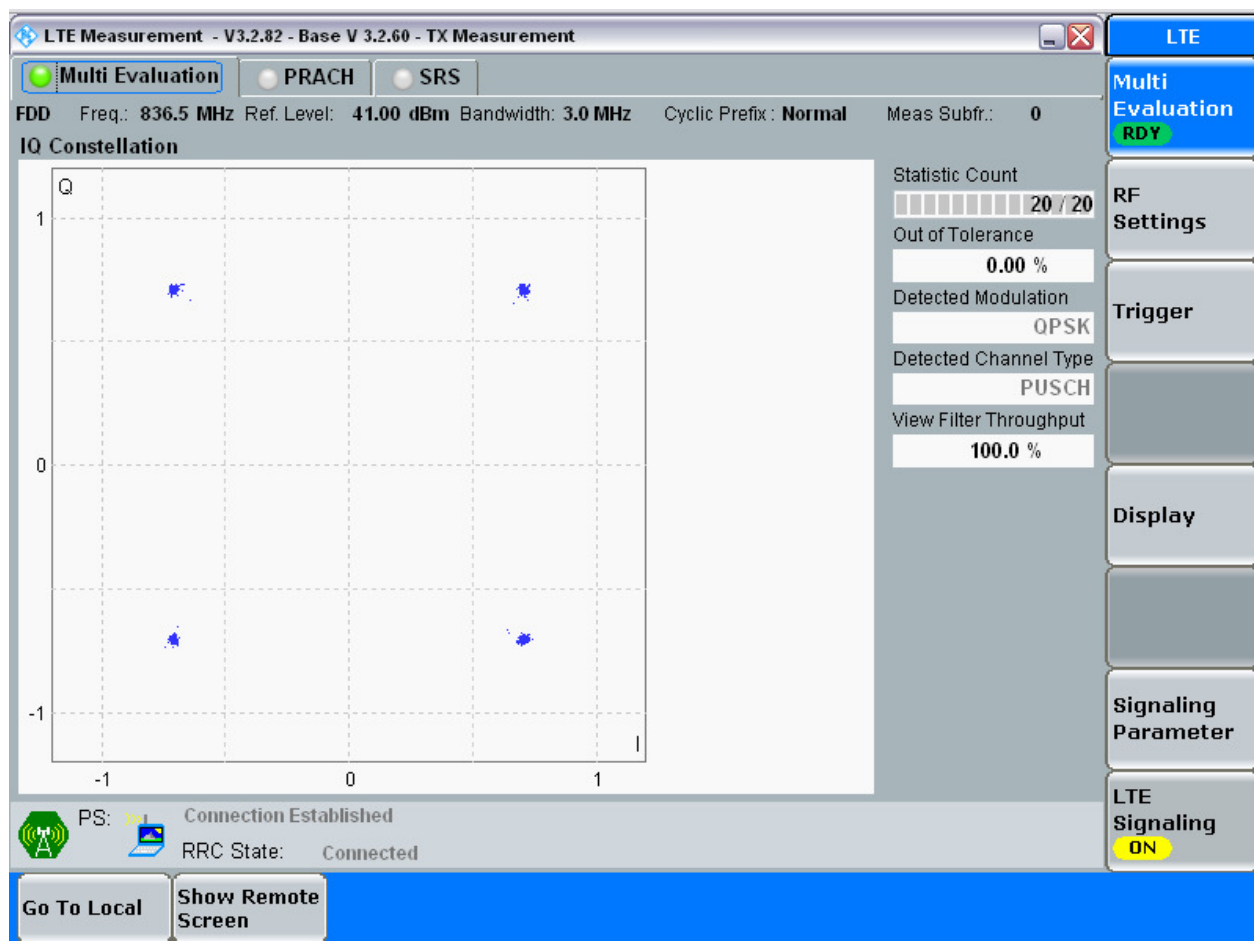
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

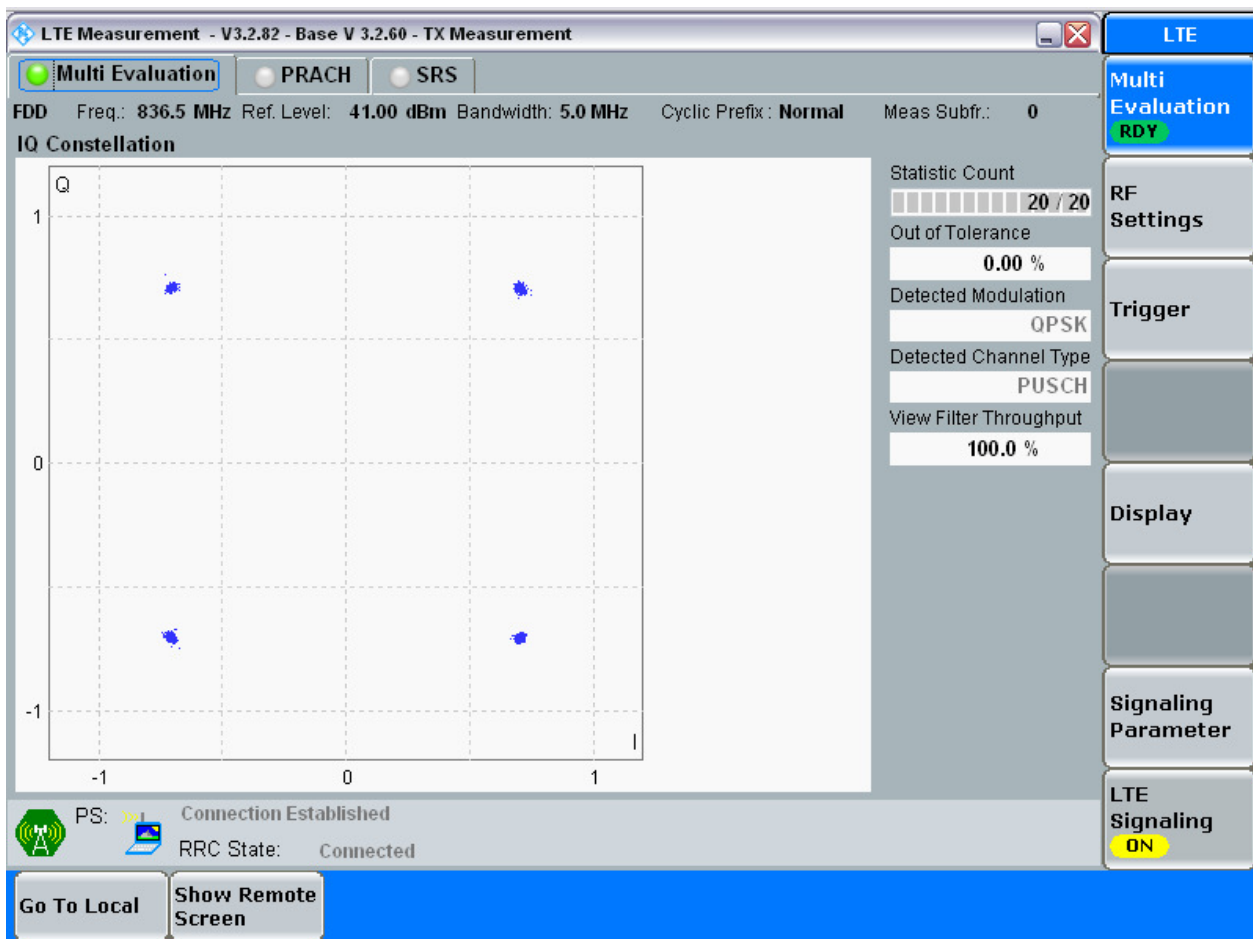
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

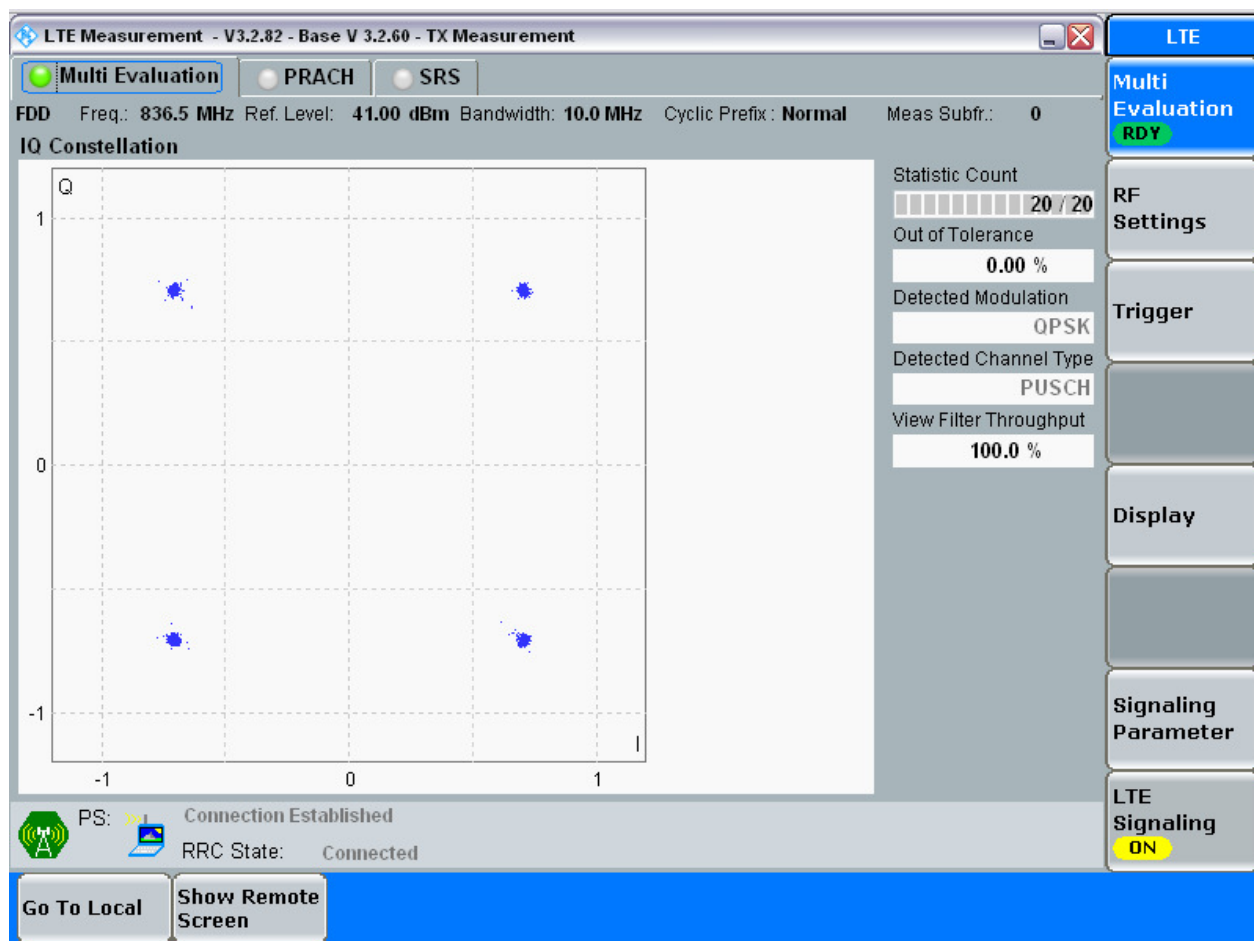
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0

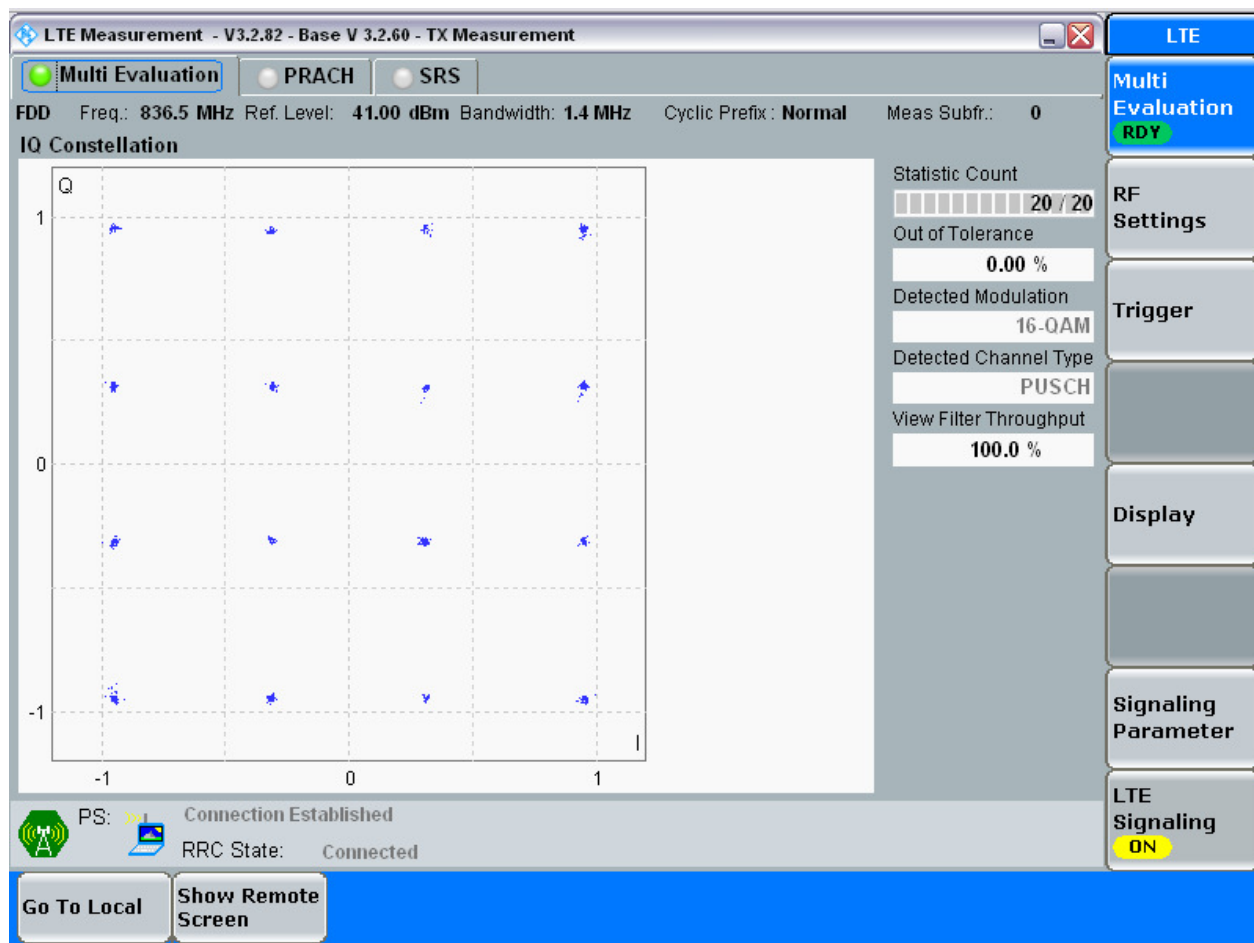


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

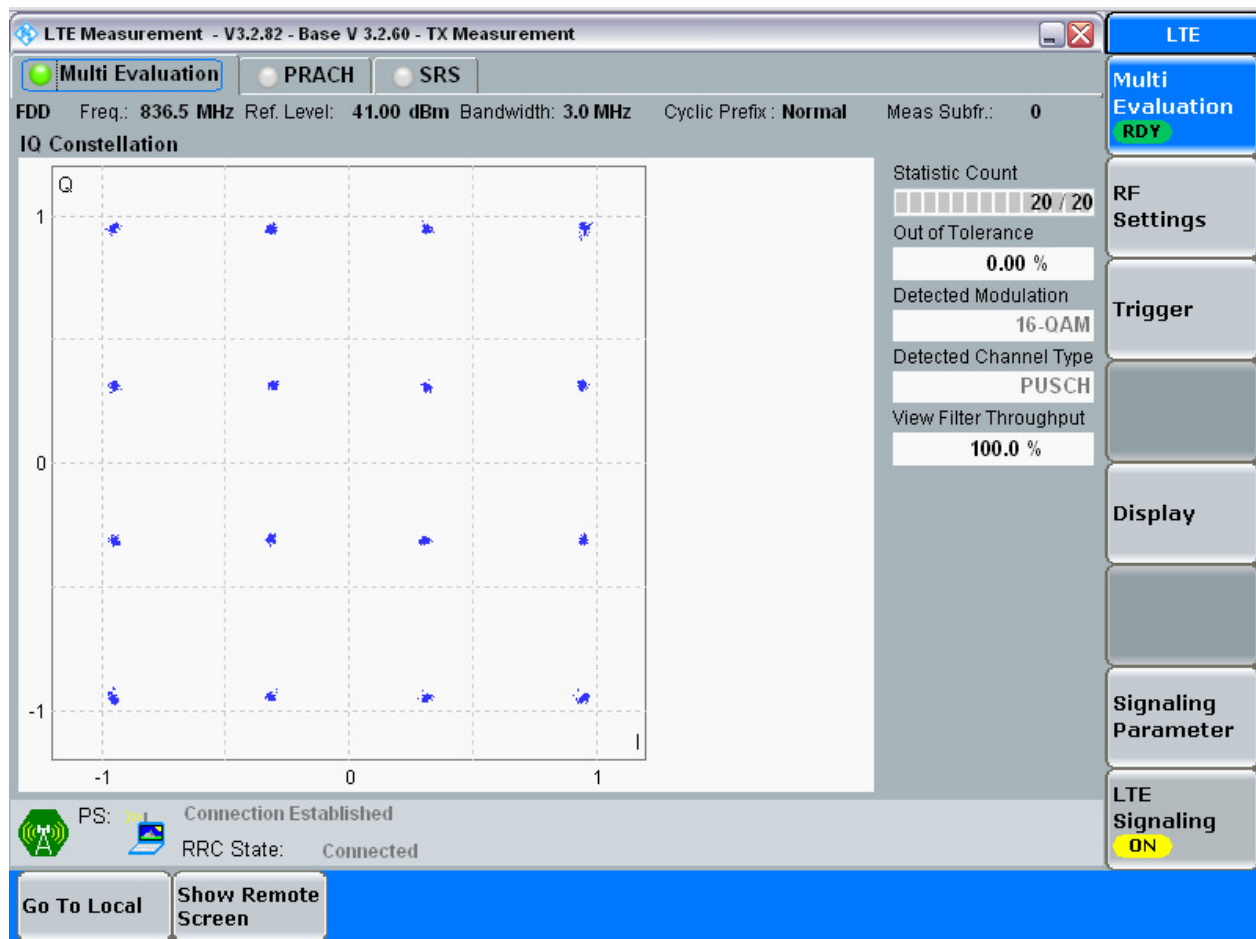
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

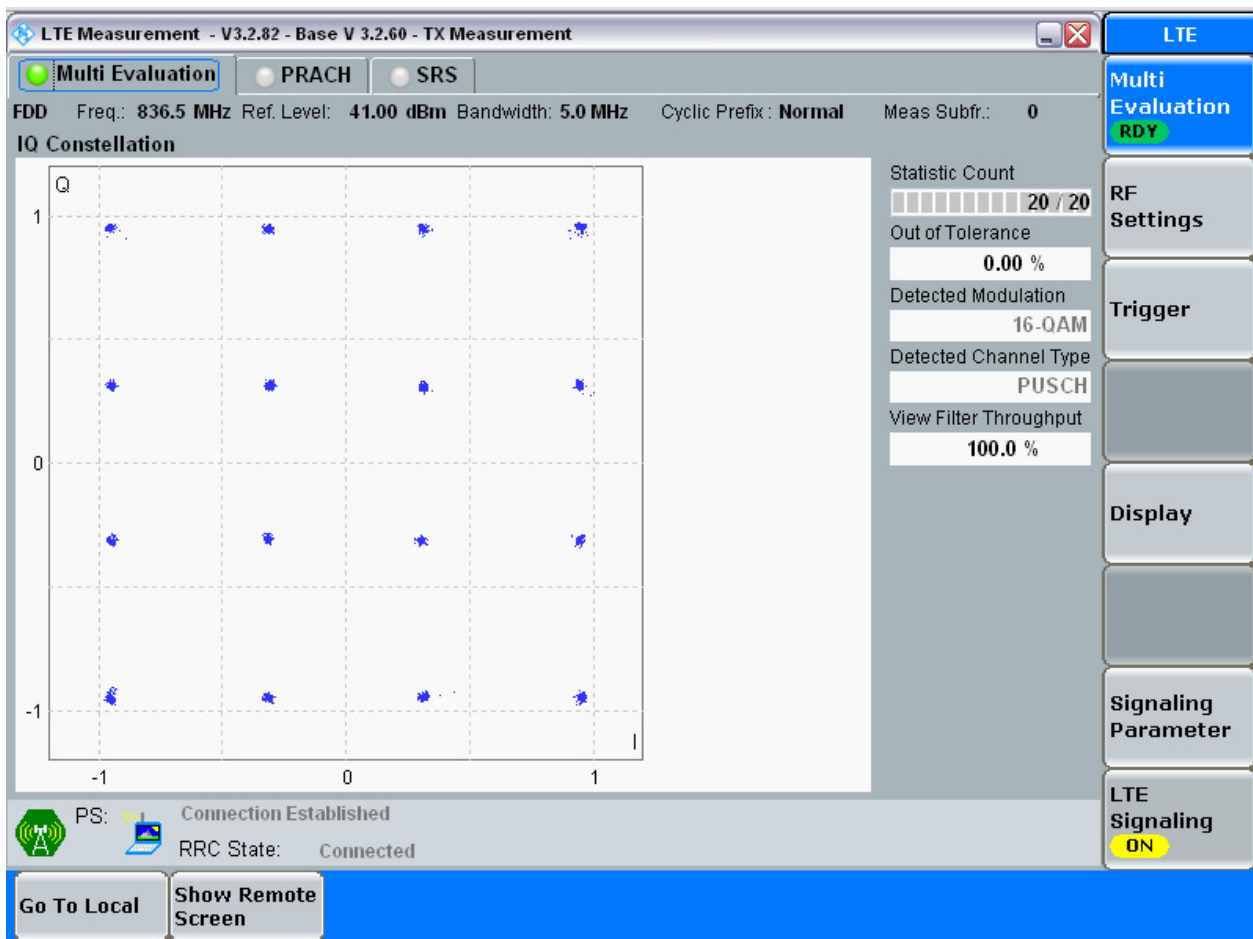
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

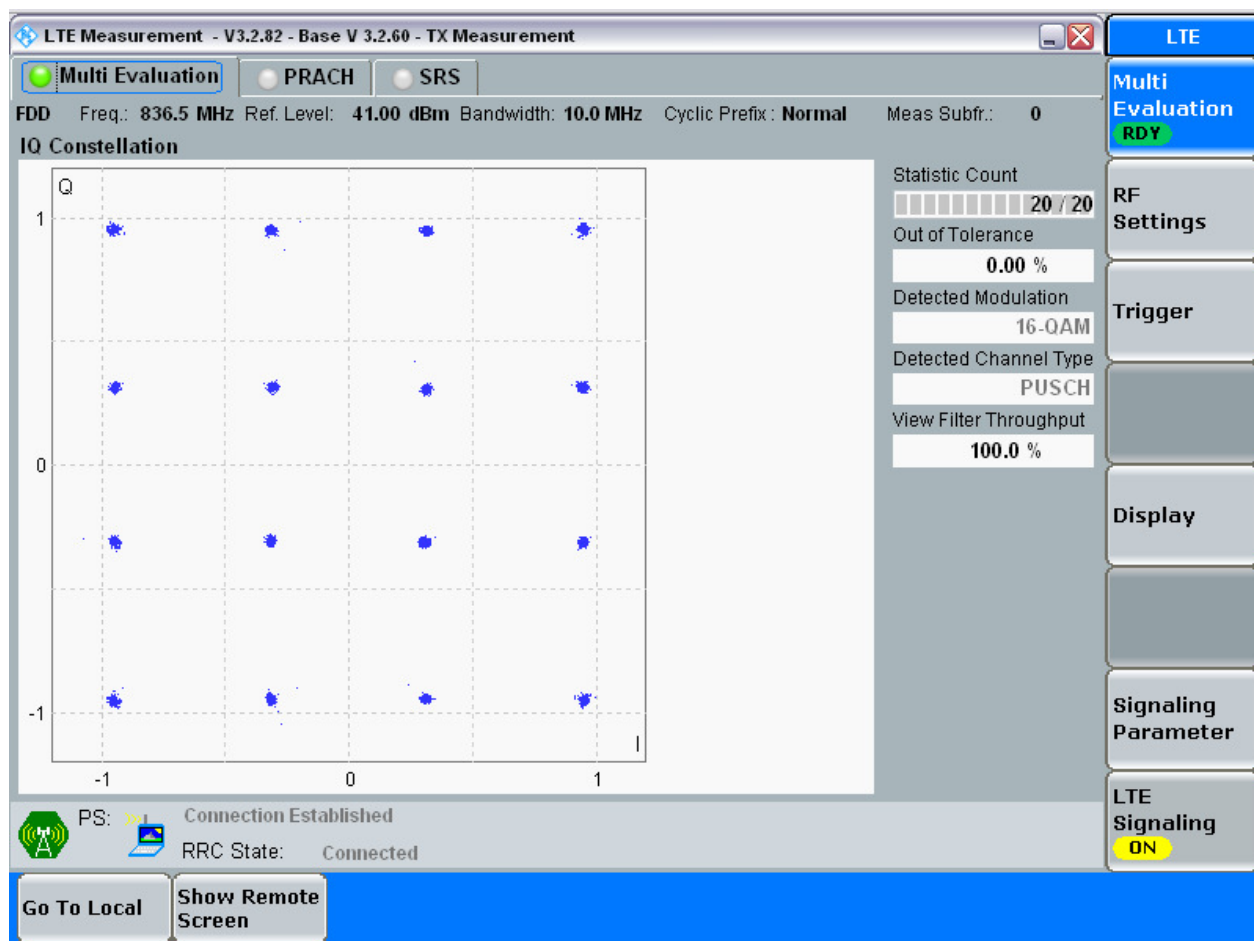
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 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	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.70	2.99	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.71	2.97	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.52	4.96	Pass
		10	LCH	RB50#0	9.00	9.89	Pass
			MCH	RB50#0	8.98	9.91	Pass
			HCH	RB50#0	8.98	9.85	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	3.00	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.71	2.98	Pass
		5	LCH	RB25#0	4.52	4.96	Pass
			MCH	RB25#0	4.51	4.97	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	9.01	9.90	Pass
			MCH	RB50#0	9.00	9.97	Pass
			HCH	RB50#0	8.99	9.90	Pass



Part II - Test Plots

4.1 For LTE

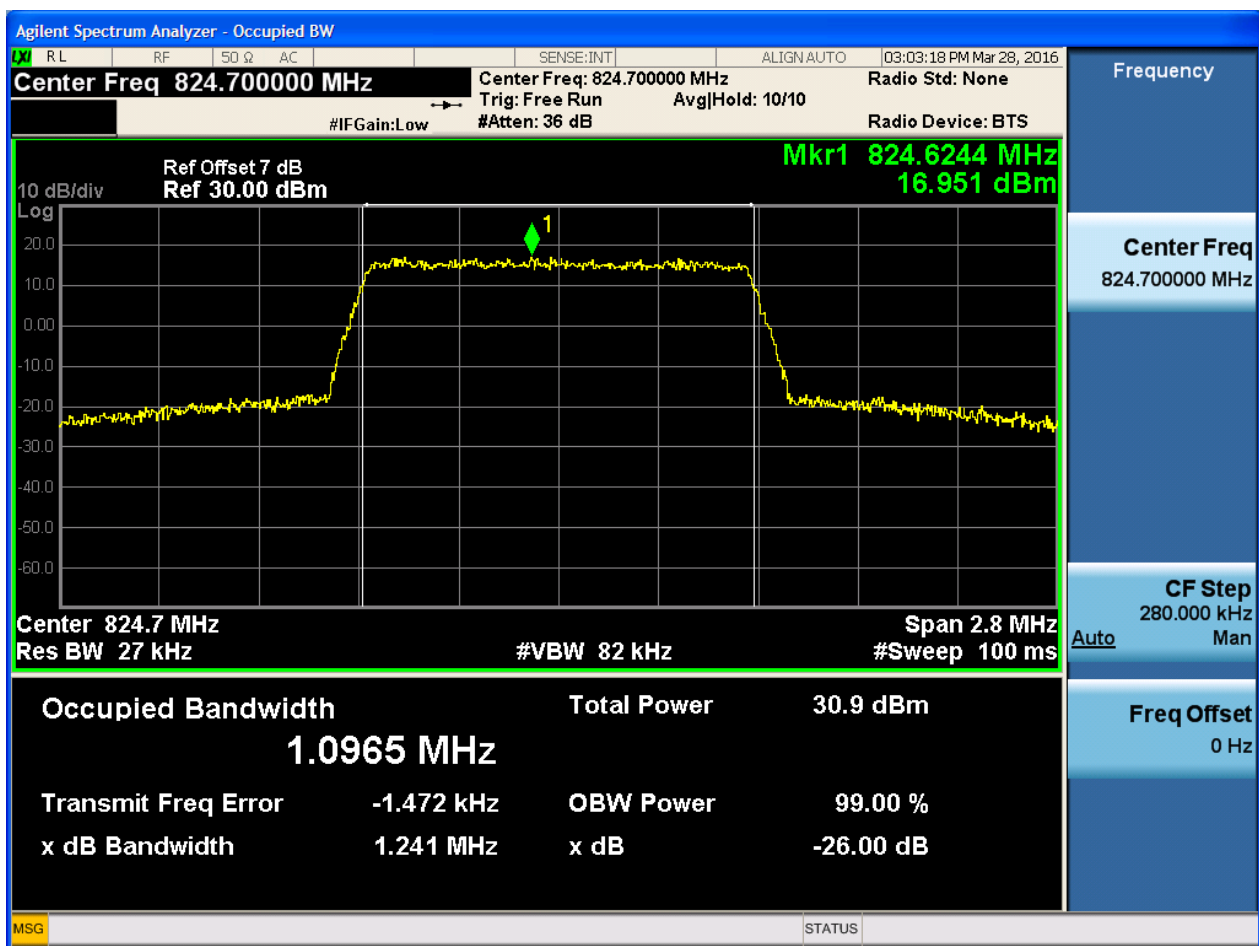
4.1.1 Test Band = BAND5

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

4.1.1.1.1.1 Test Channel = LCH

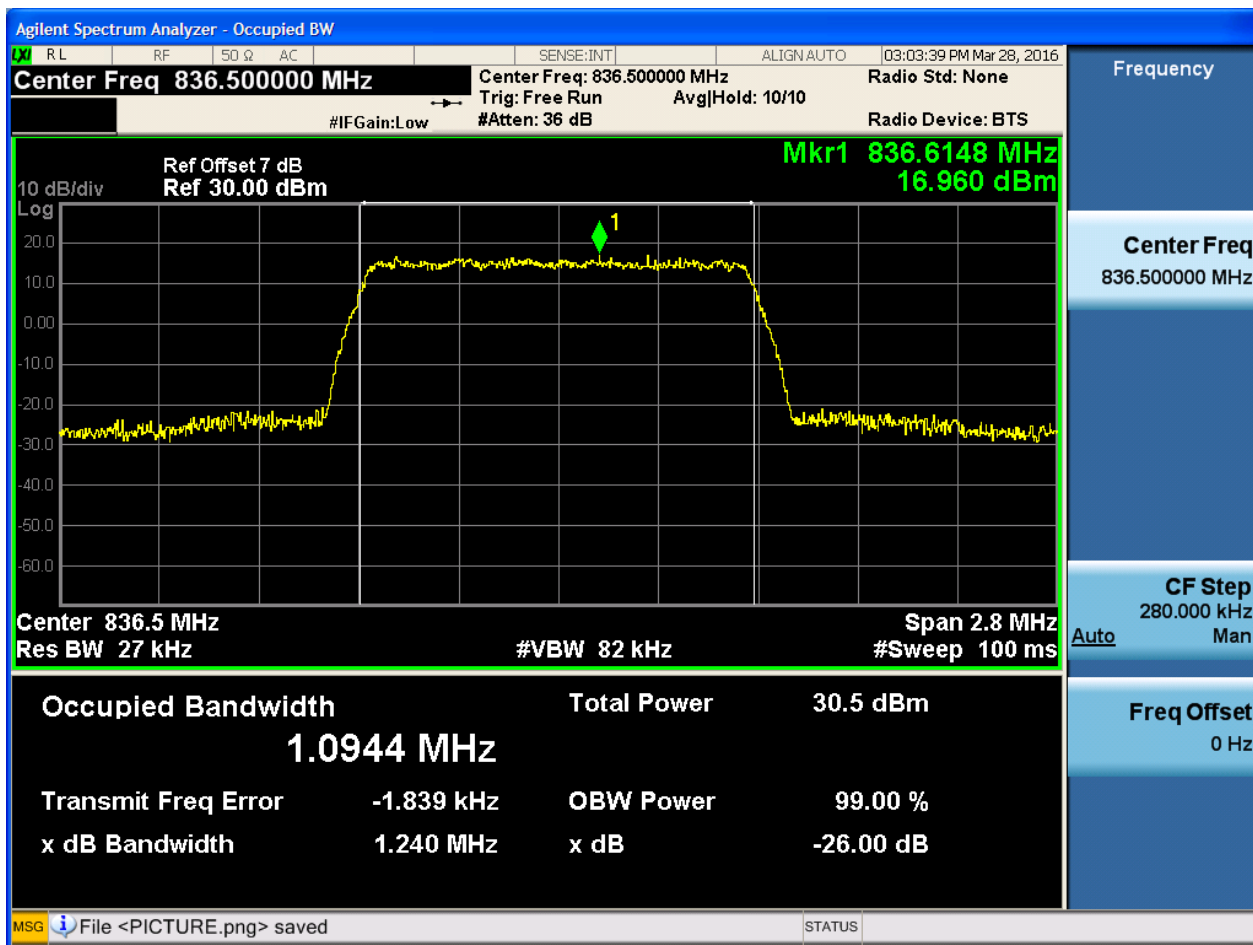
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

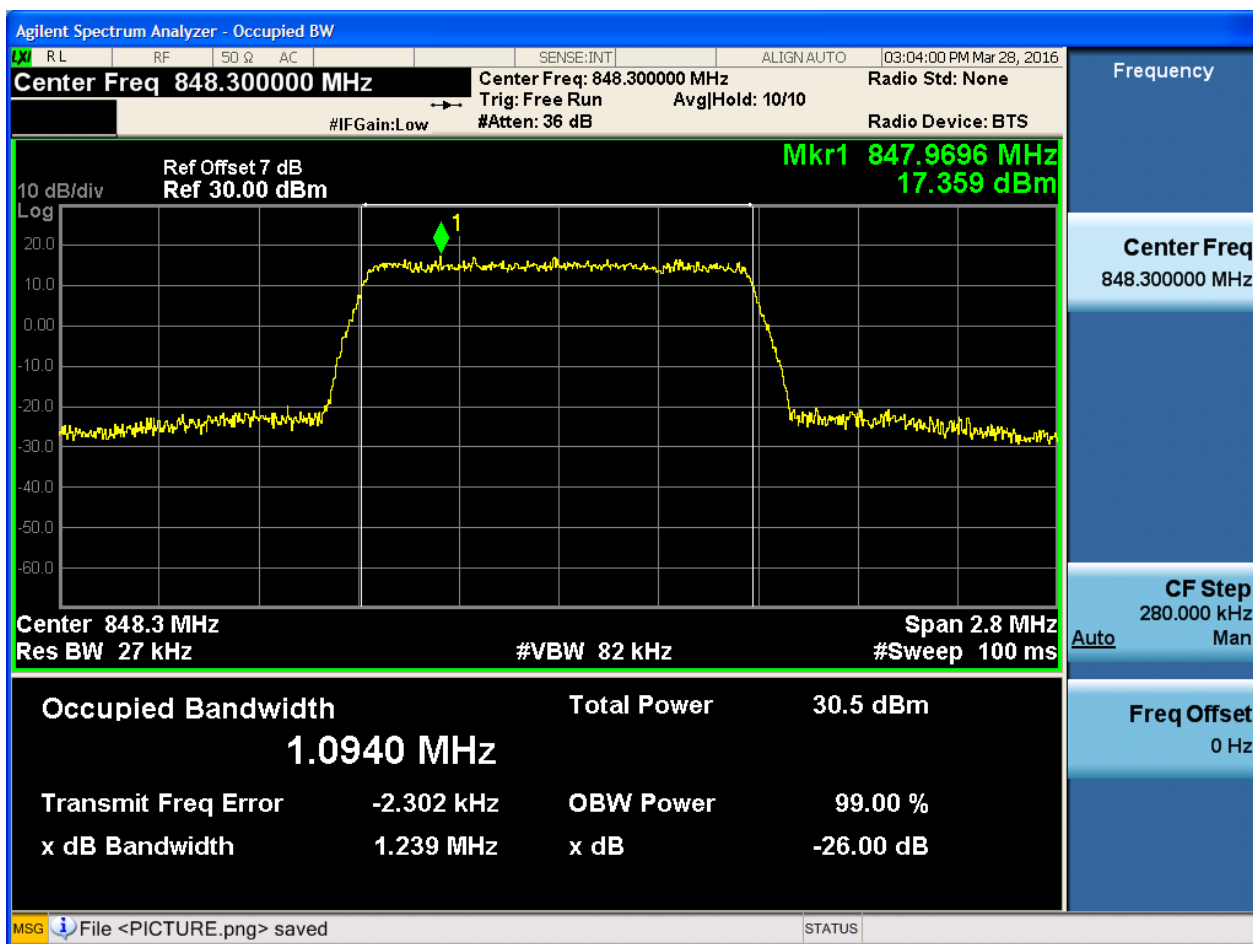
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

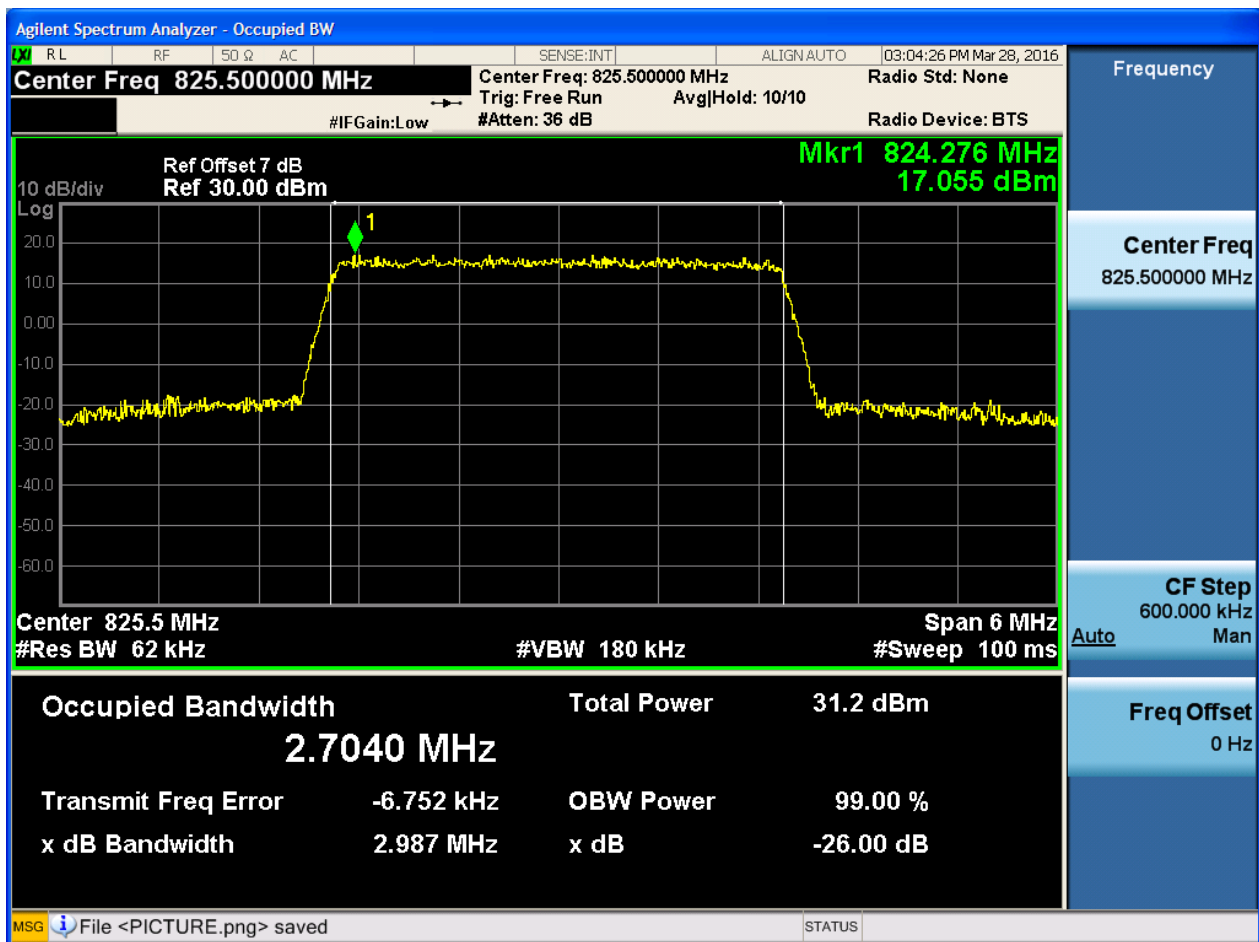




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

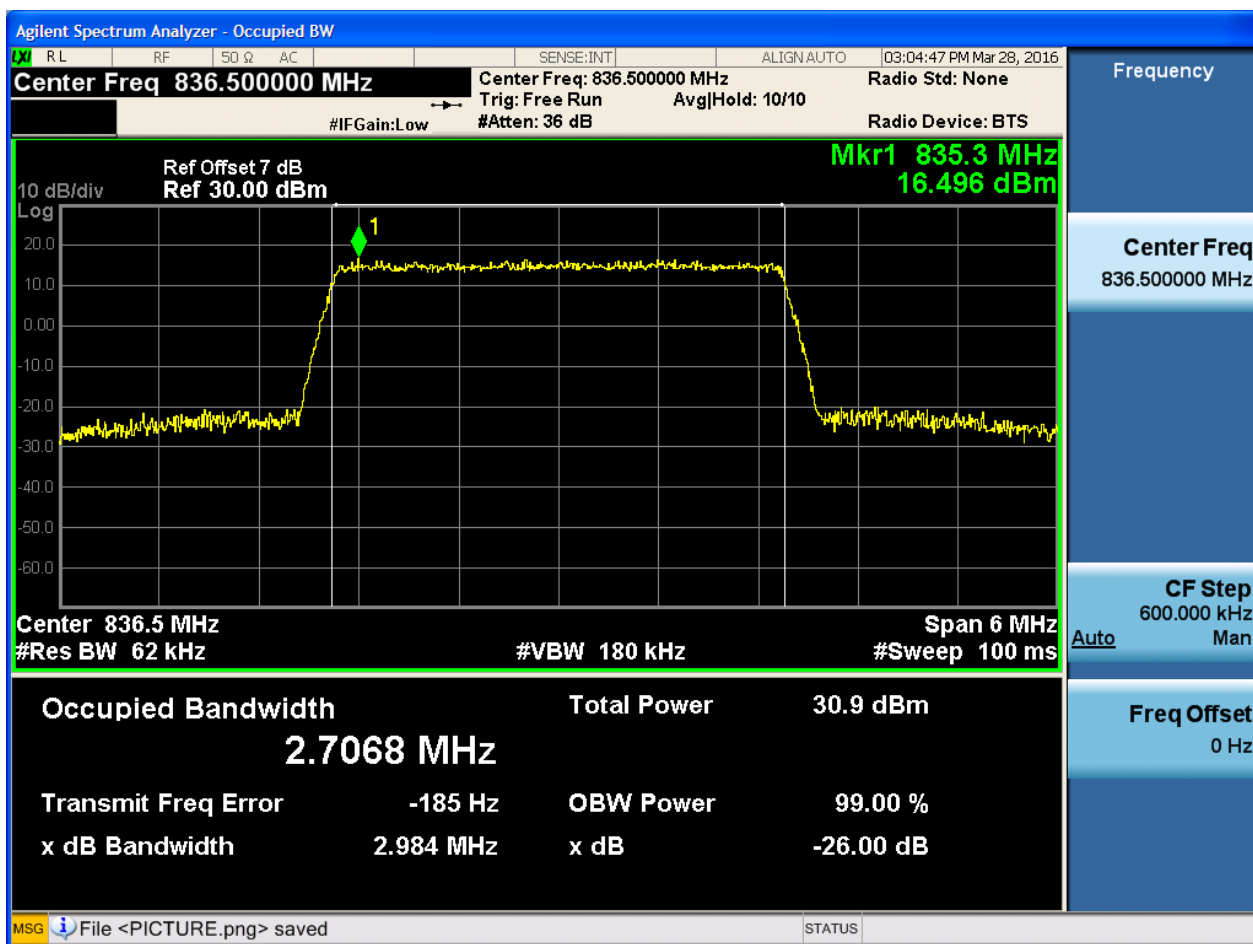
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

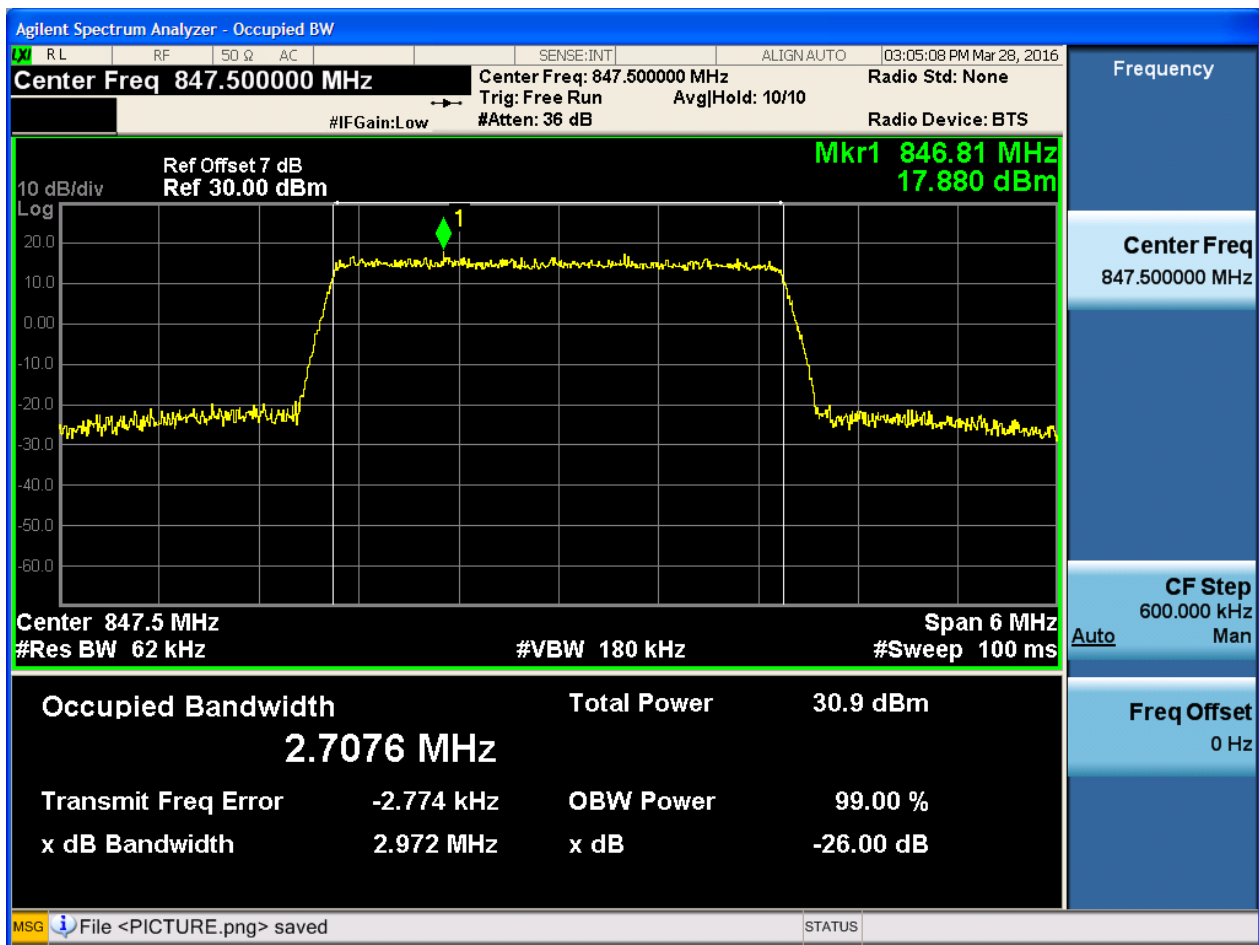
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

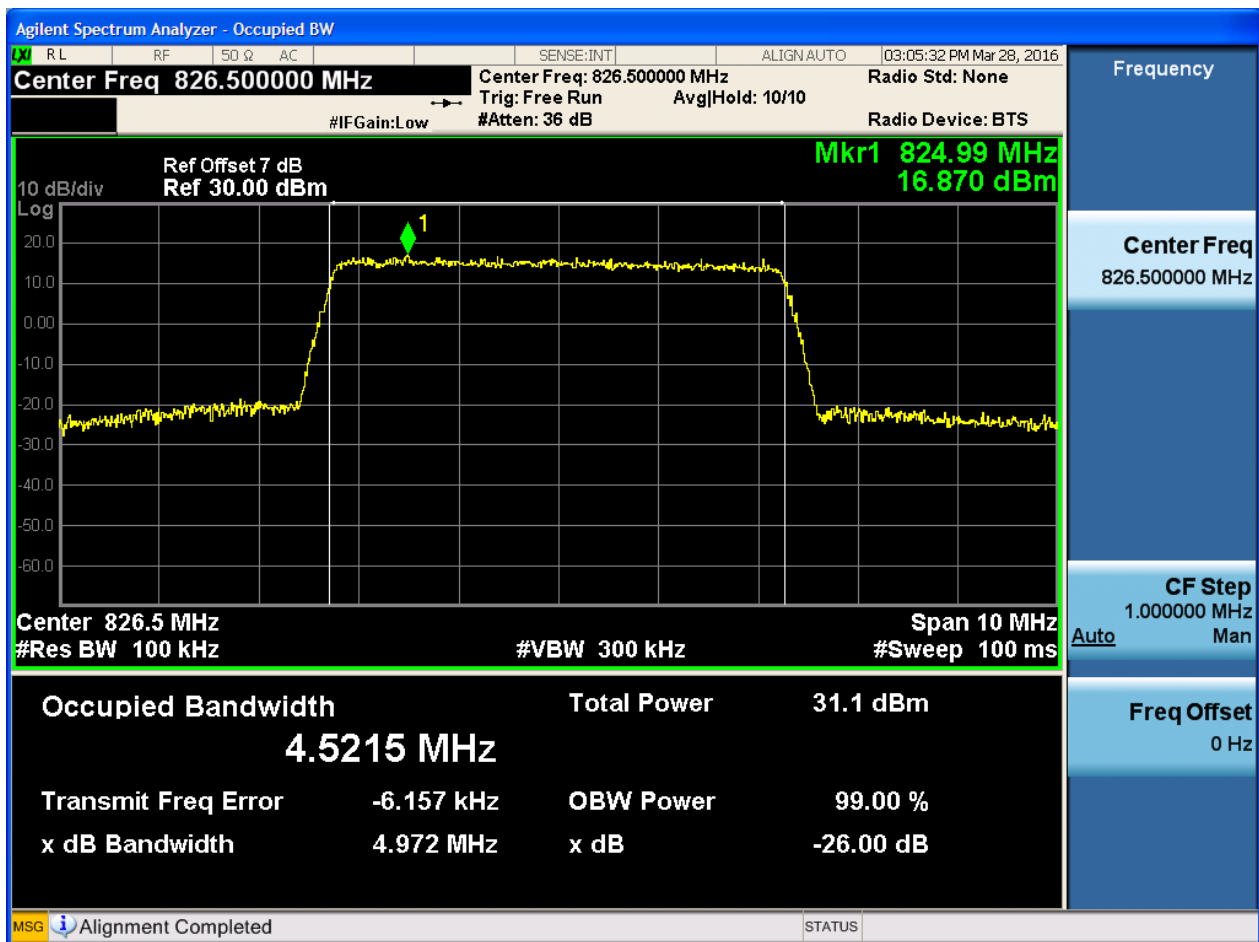




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

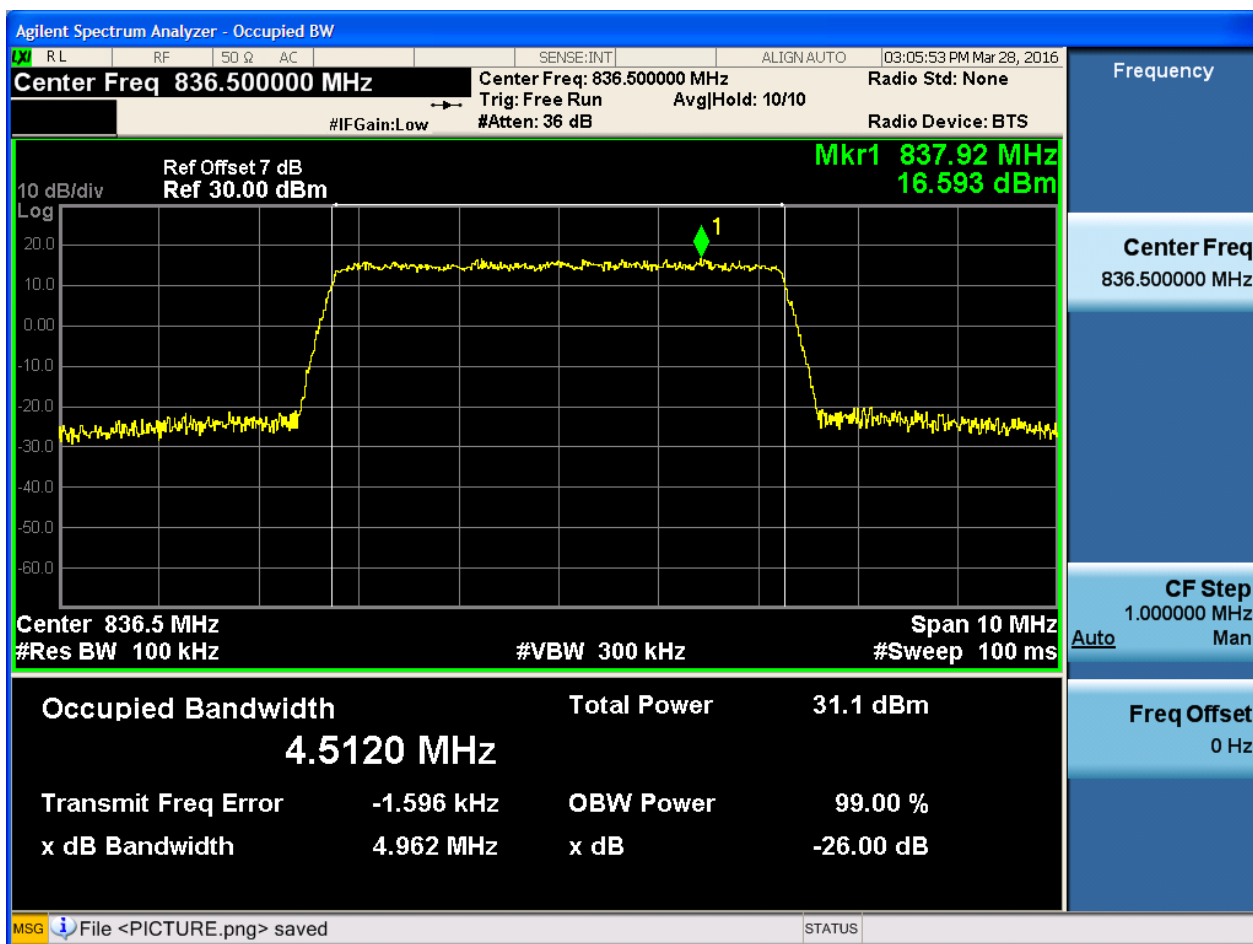
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

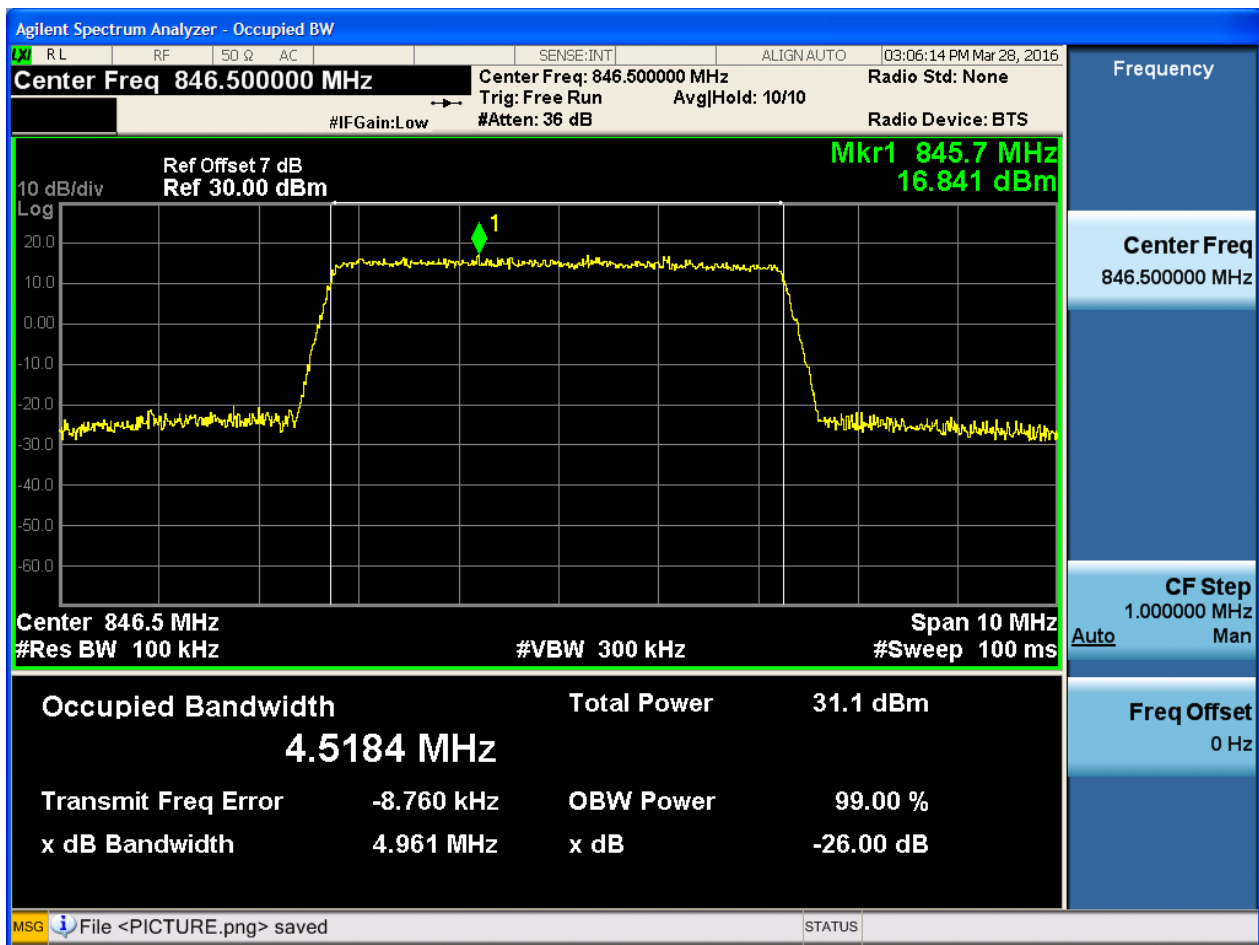
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

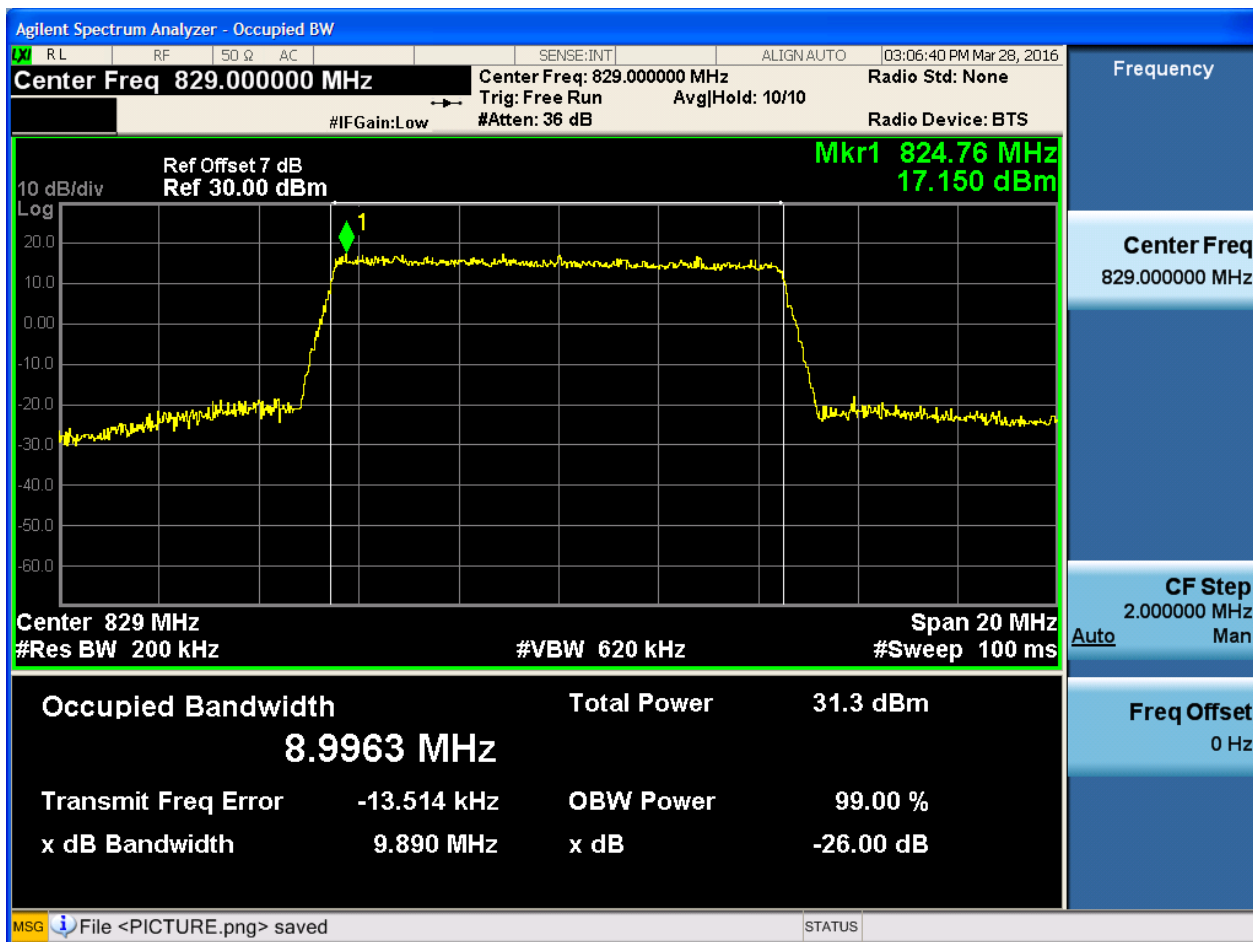




4.1.1.1.4 Test Bandwidth = 10

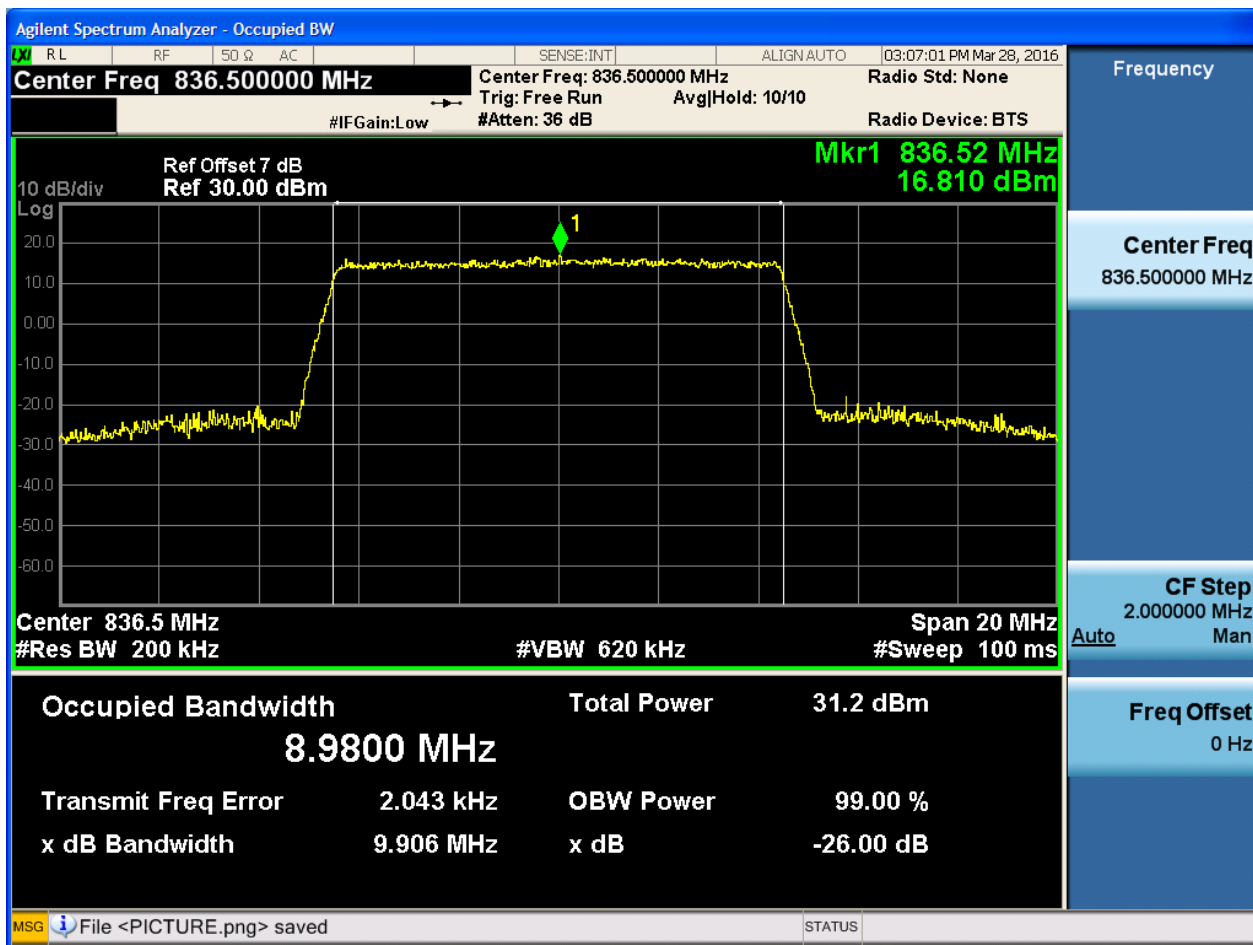
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



4.1.1.1.4.2 Test Channel = MCH

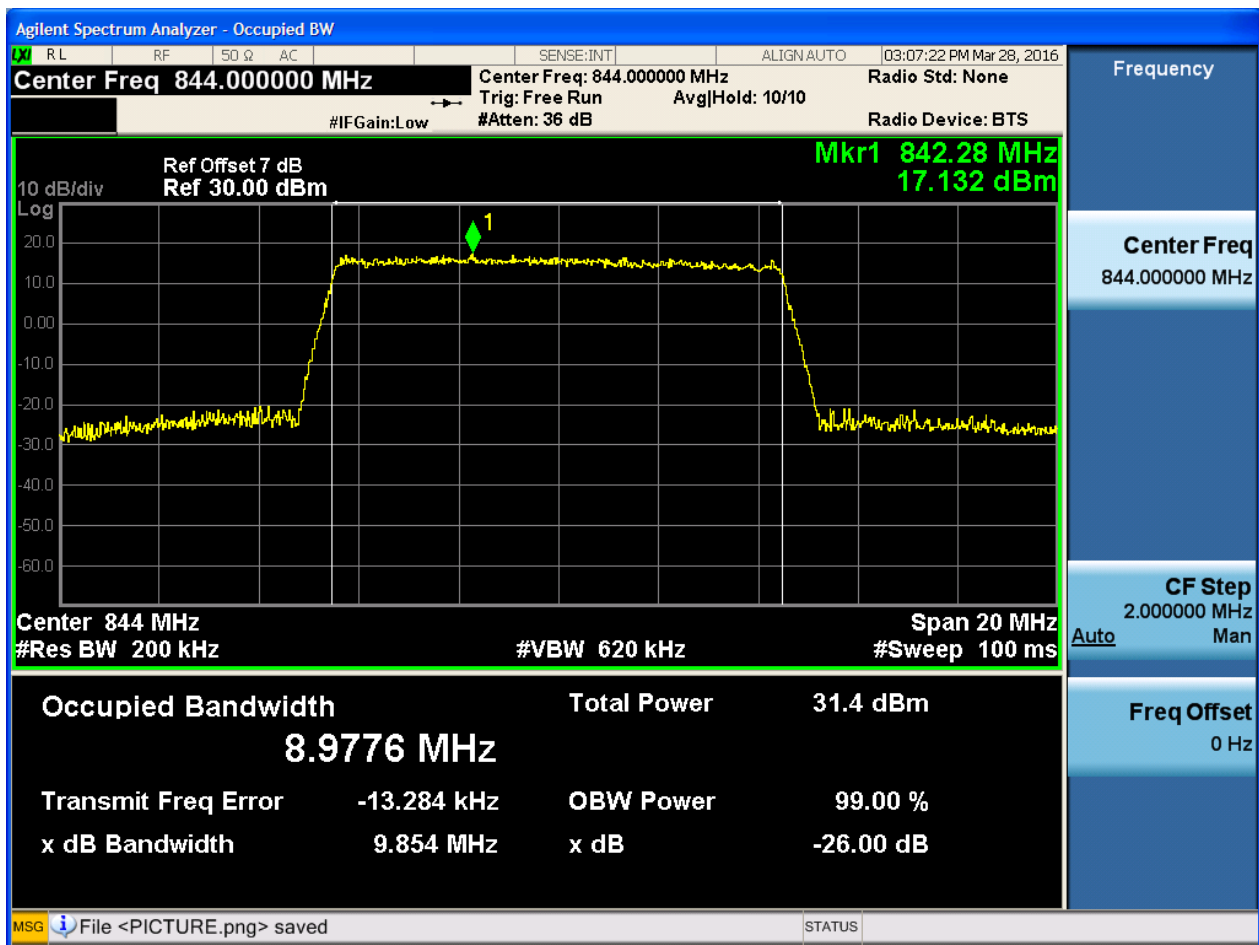
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



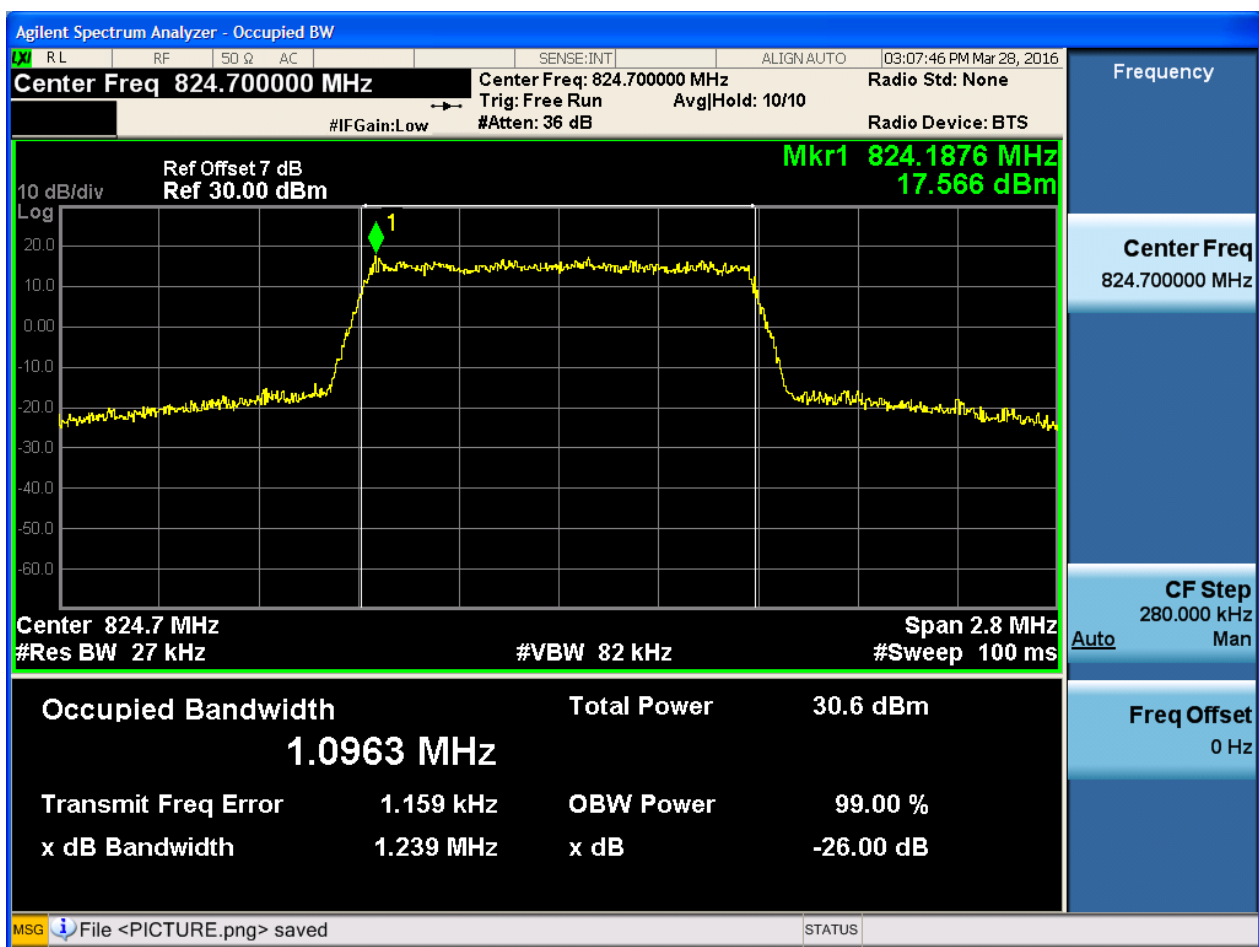


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

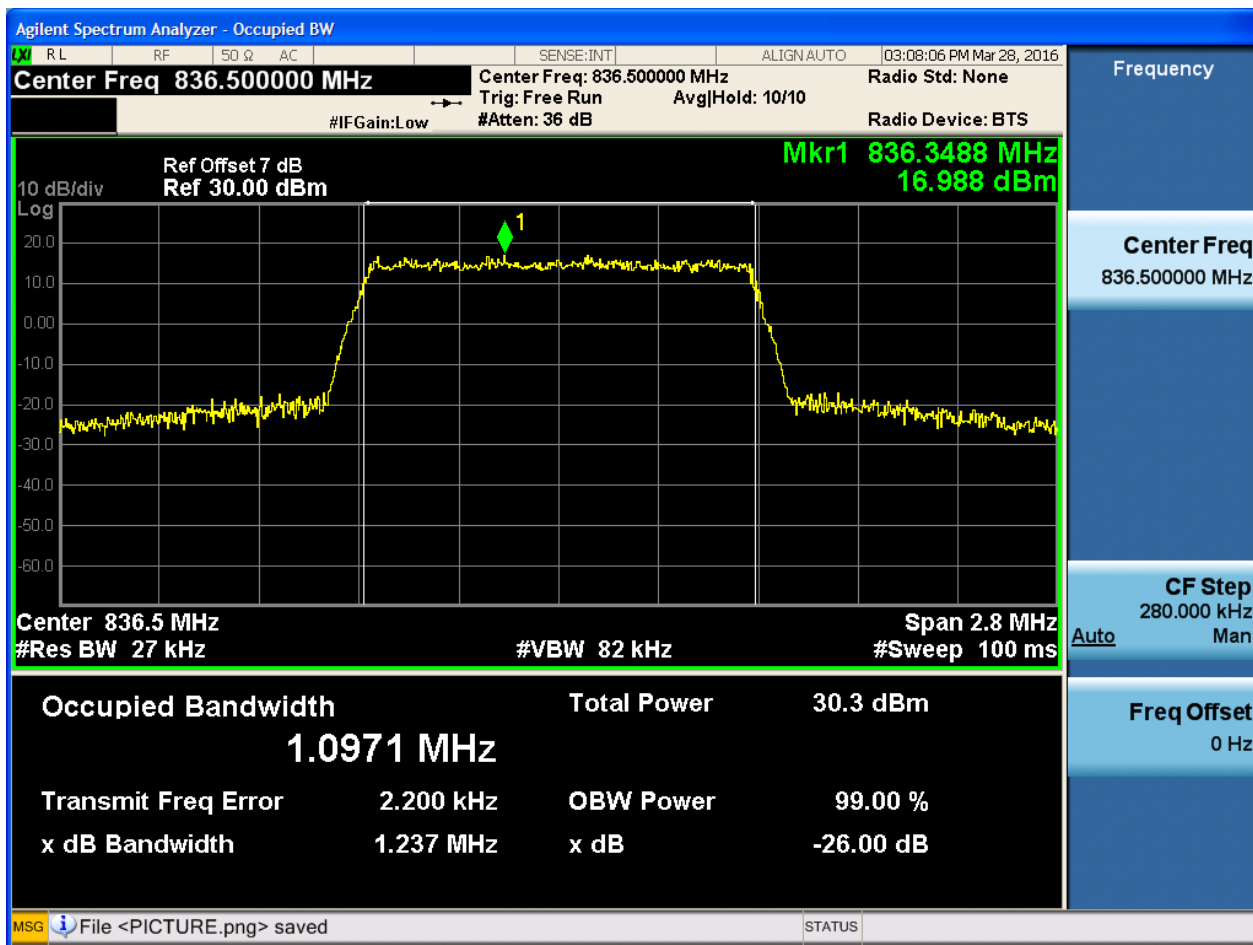
4.1.1.2.1.1.1 Test RB = RB6#0





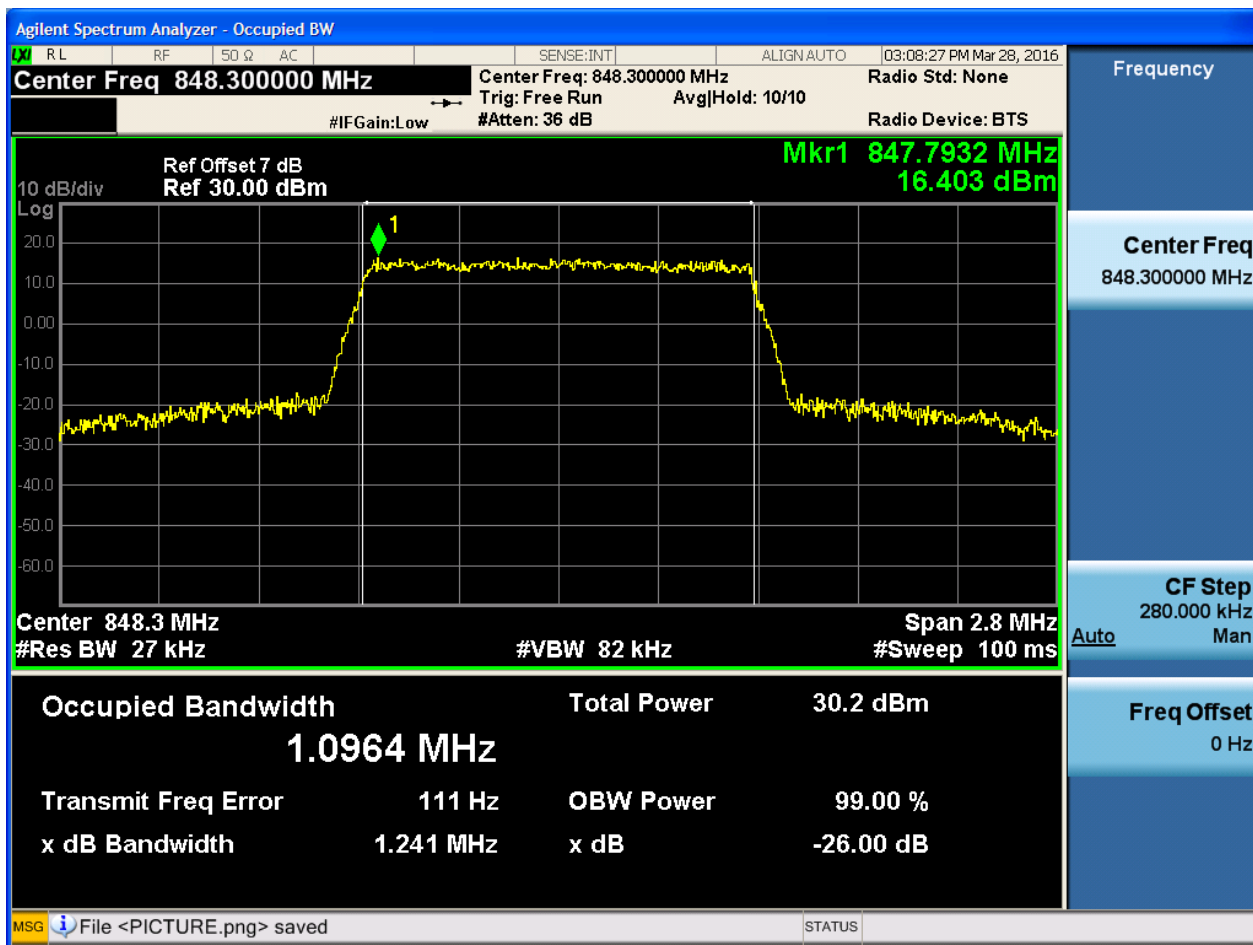
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

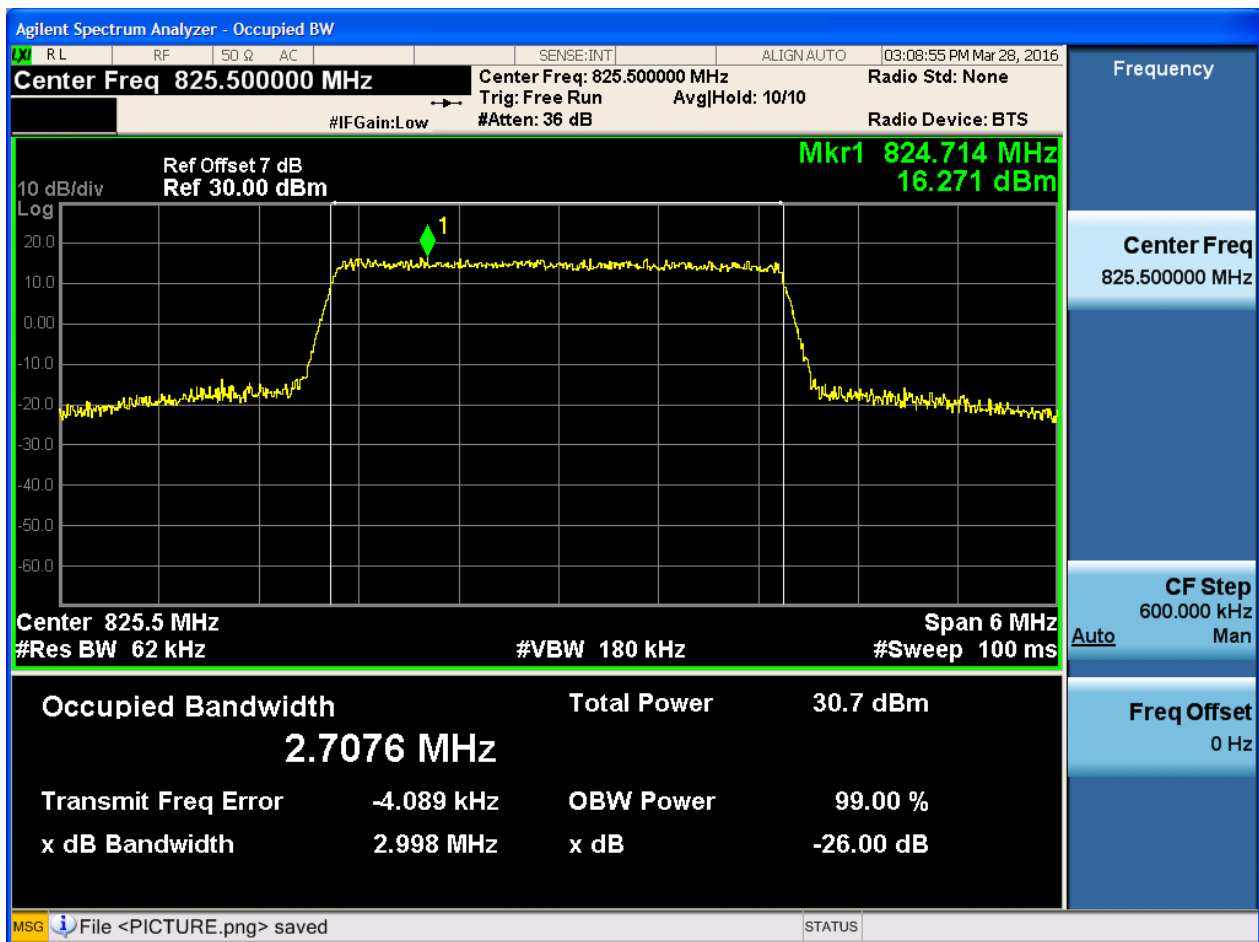




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

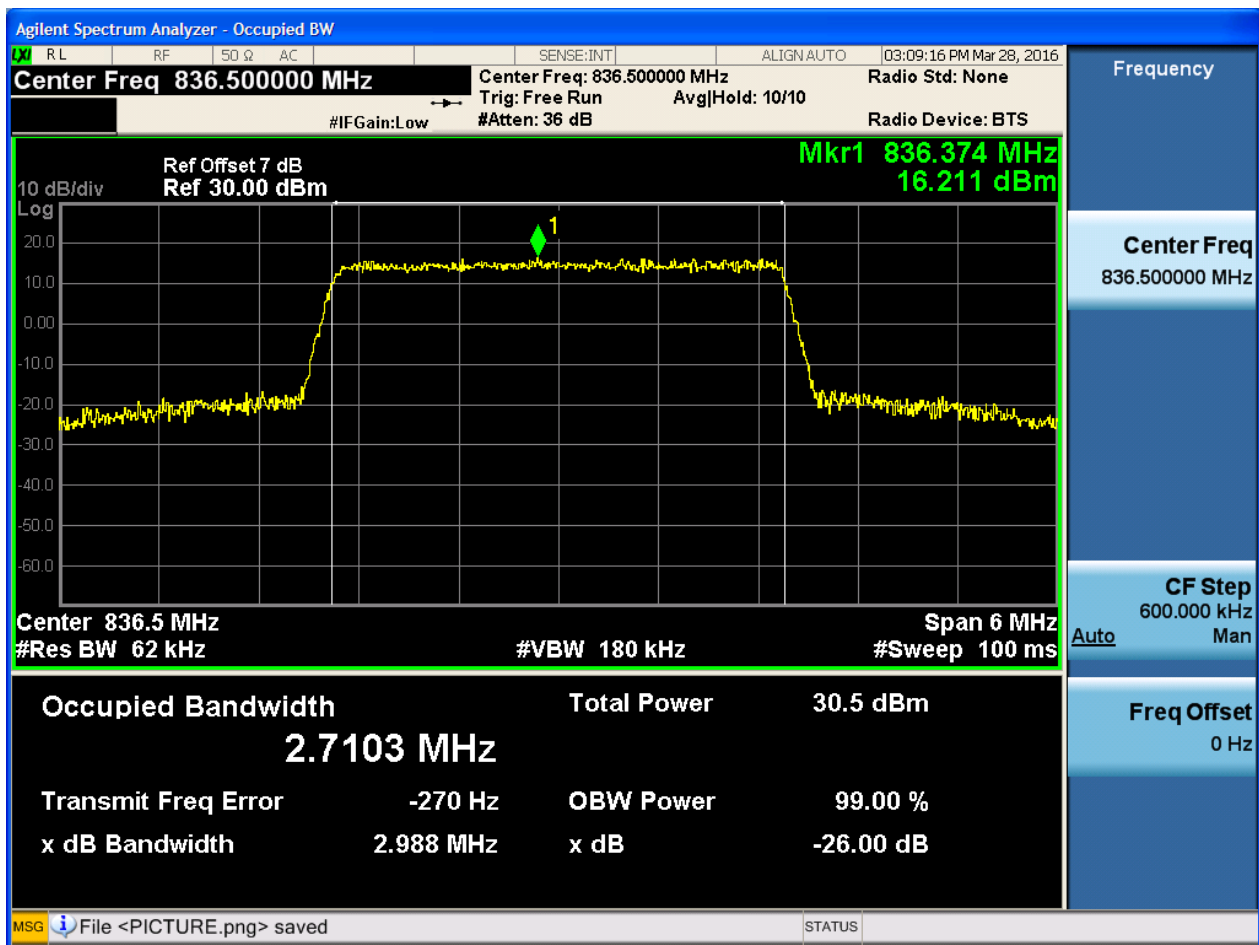
4.1.1.2.2.1.1 Test RB = RB15#0





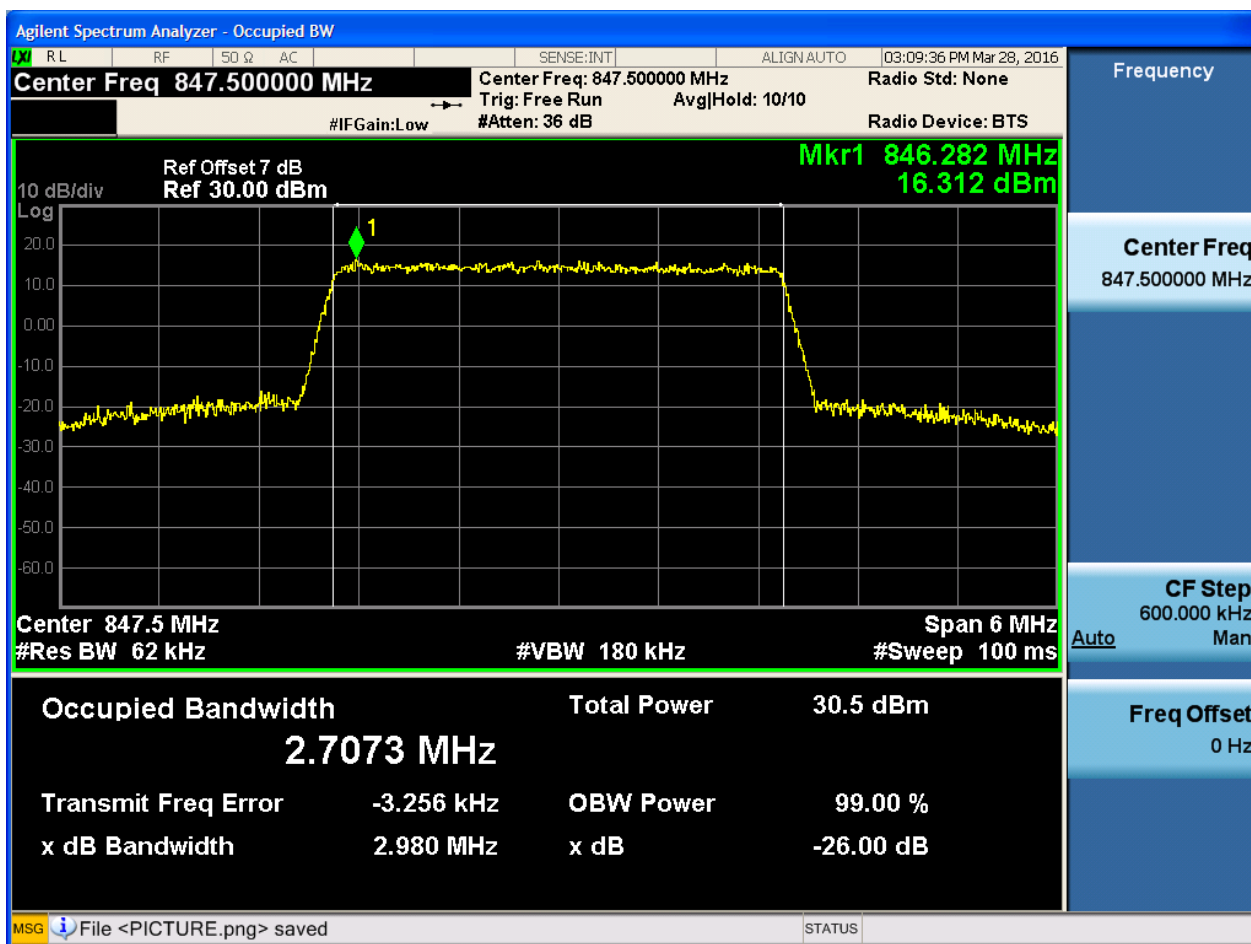
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB15#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

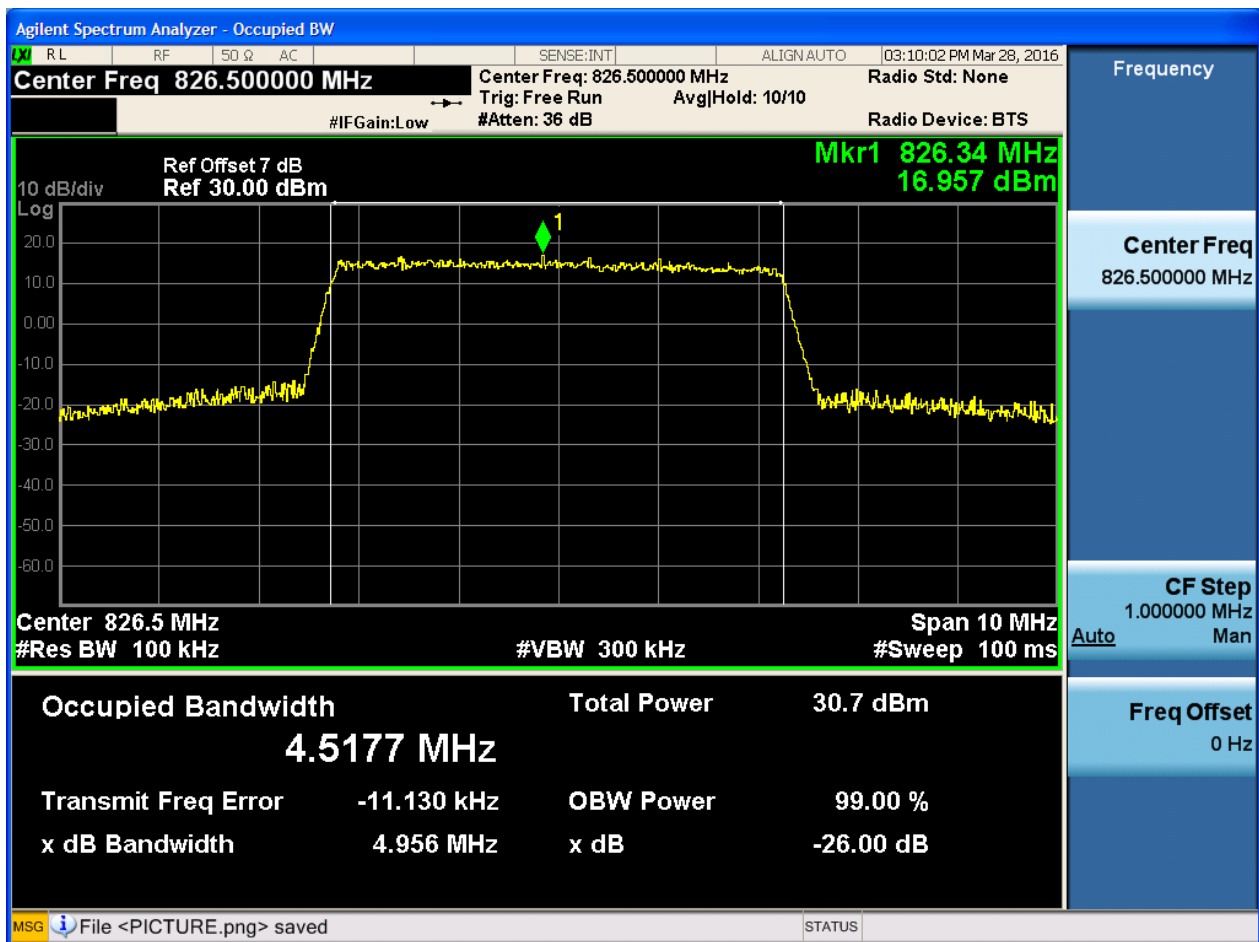




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

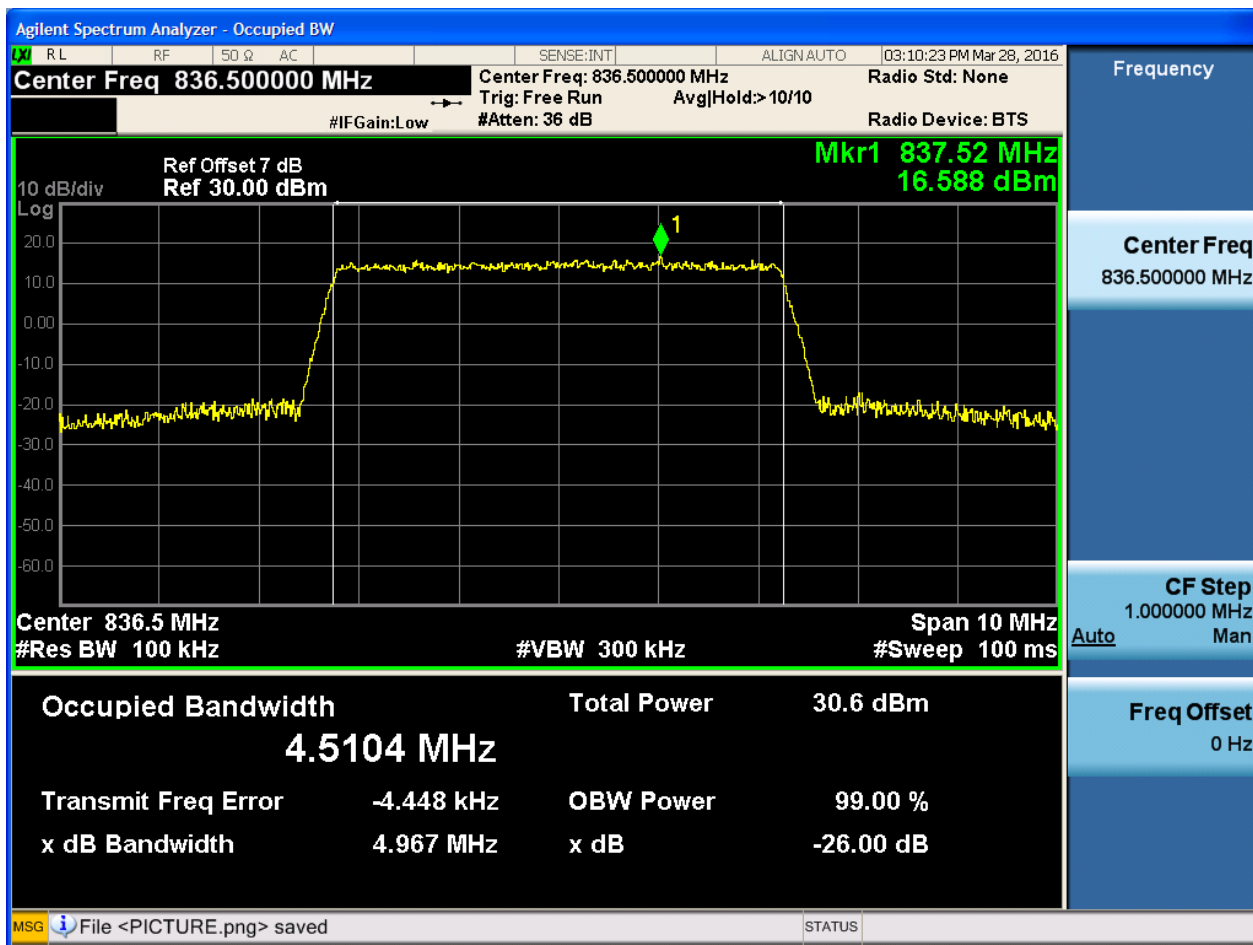
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

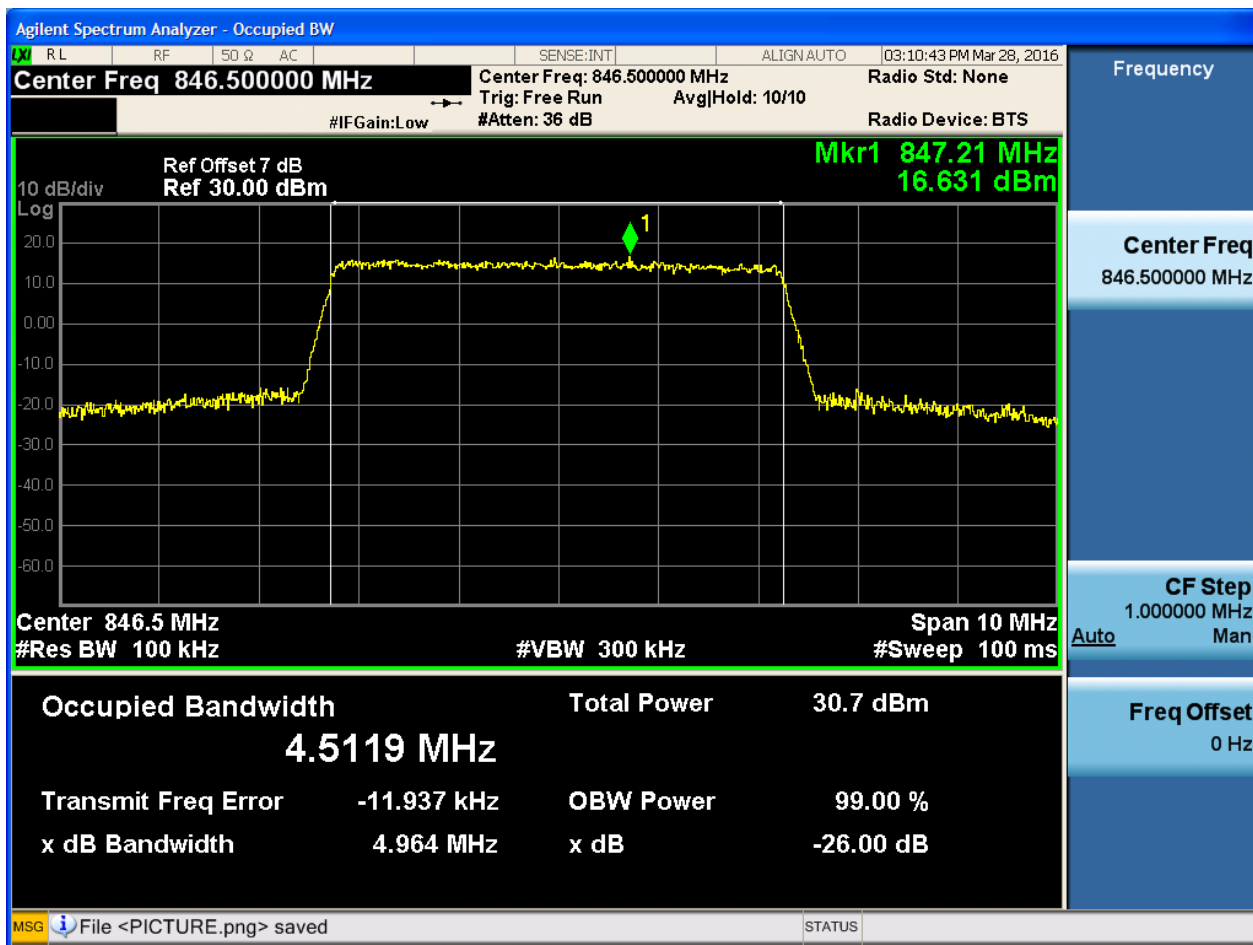
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

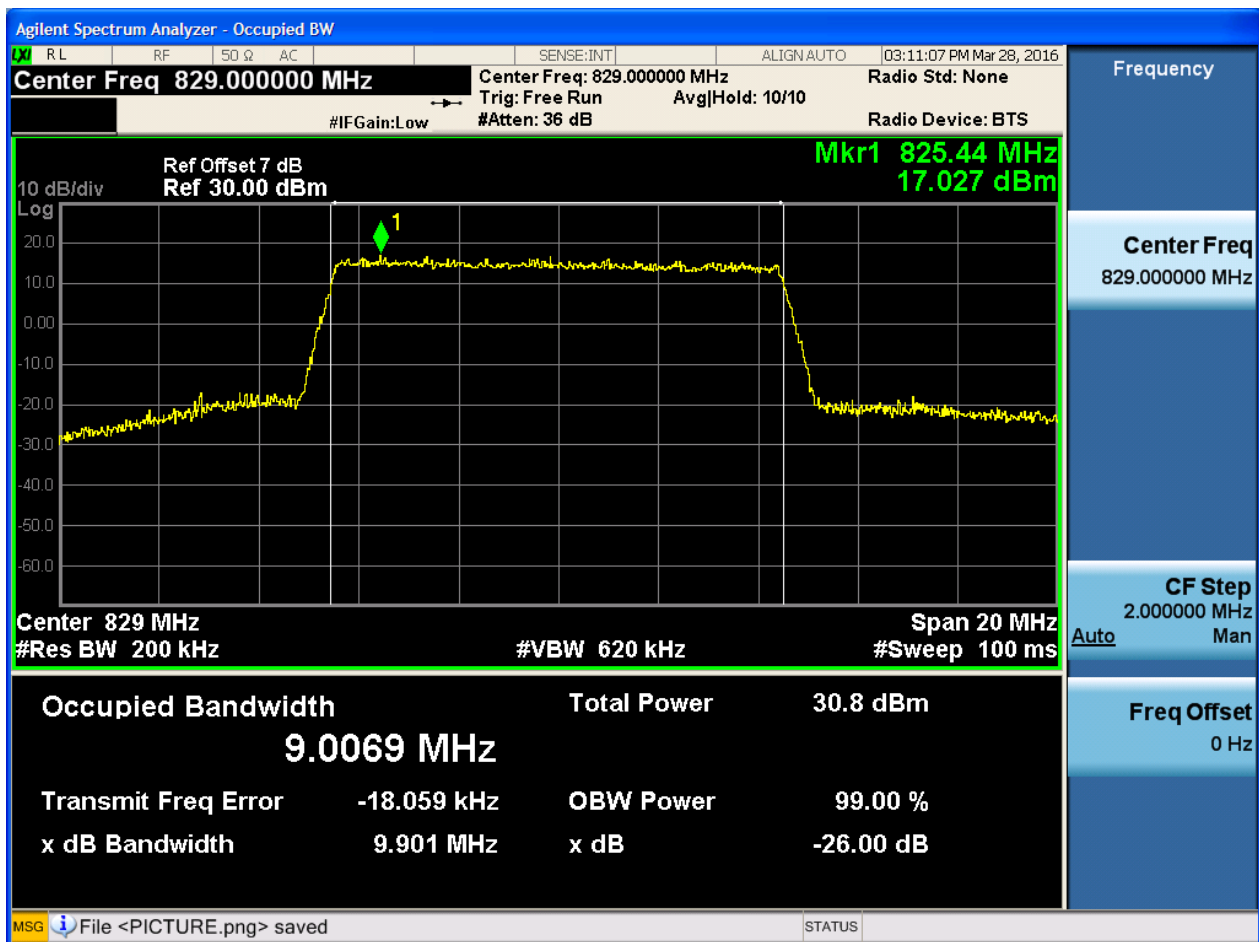




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

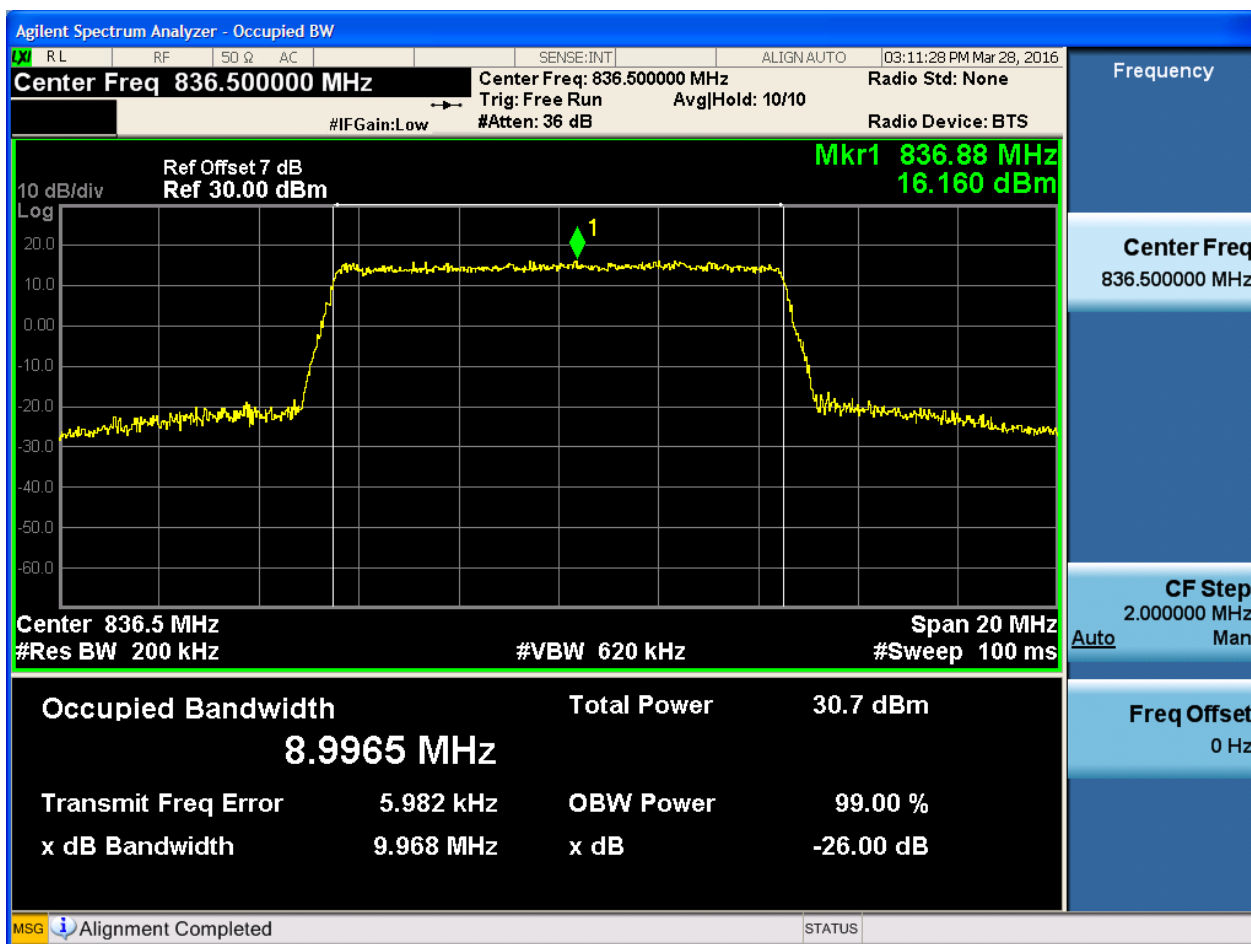
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

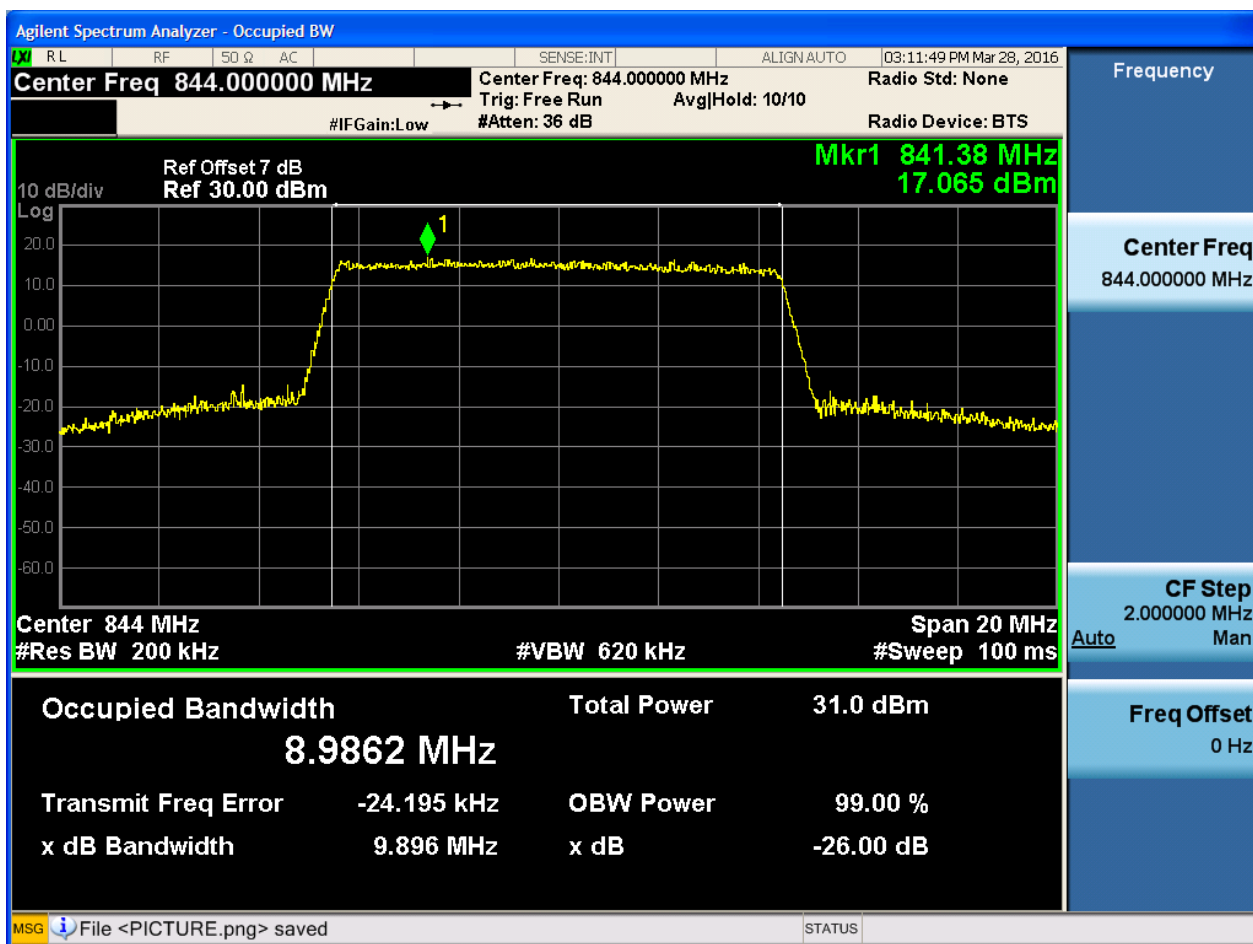
4.1.1.2.4.2.1 Test RB = RB50#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0





5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

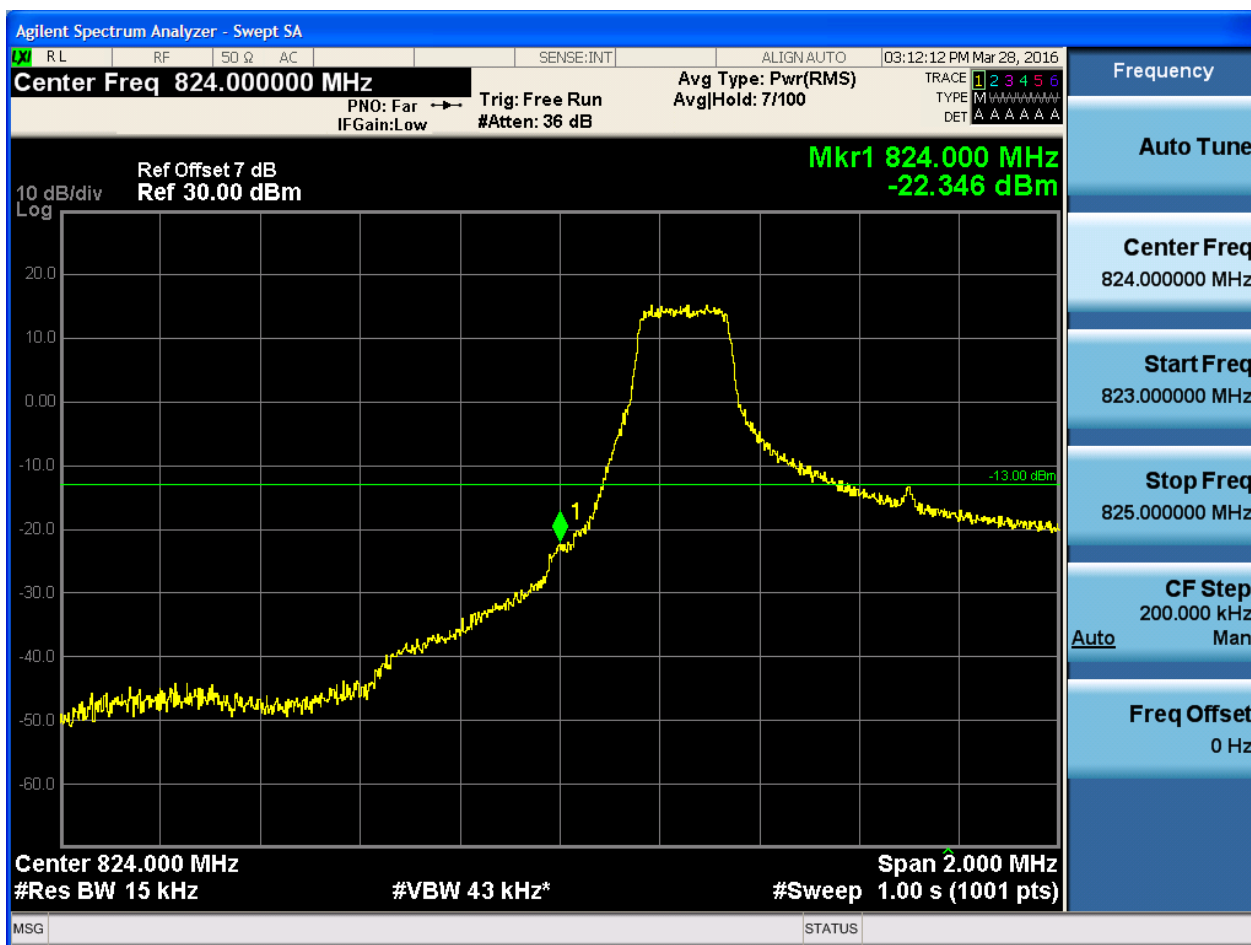
5.1.1 Test Band = BAND5

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



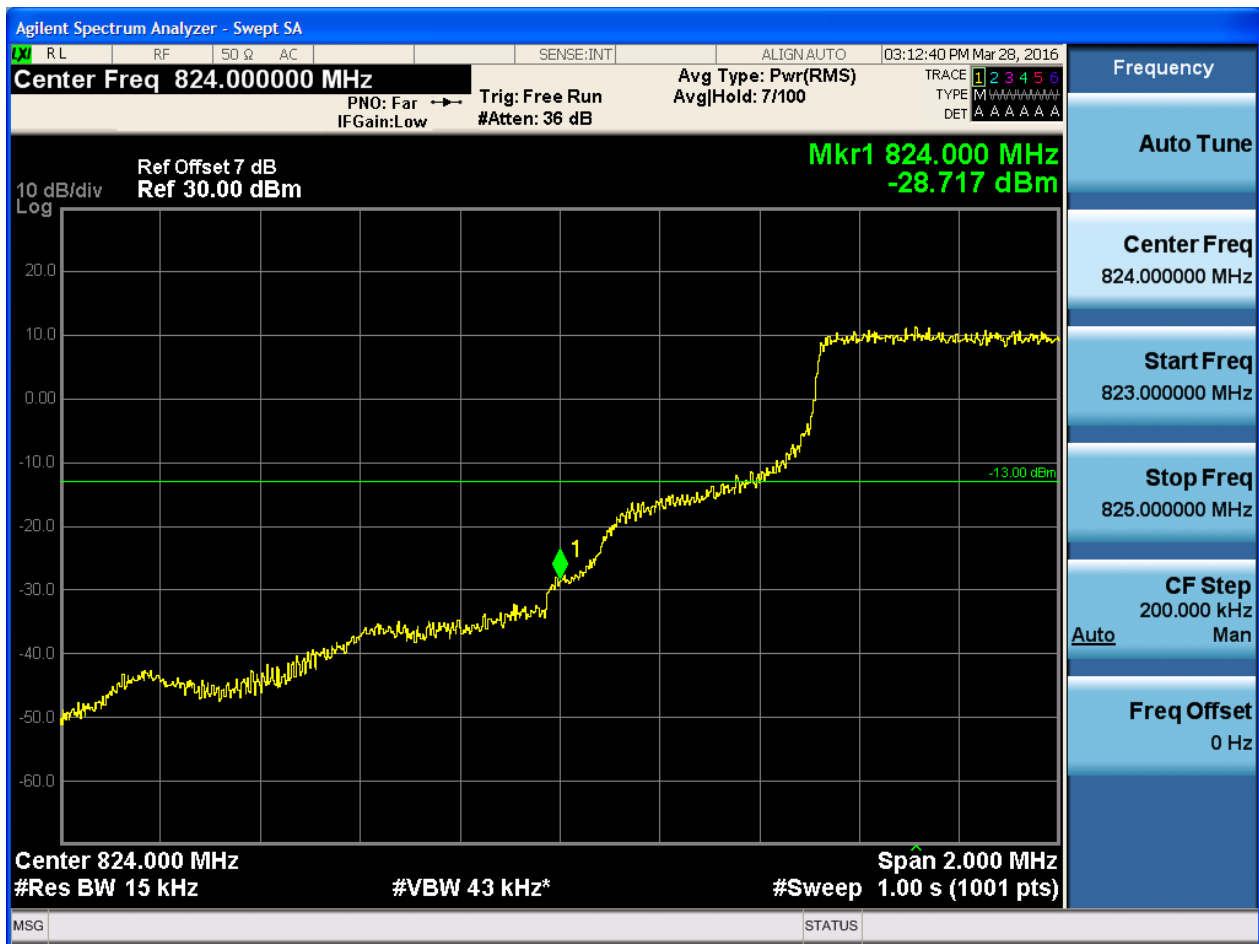


5.1.1.1.1.2 Test RB = RB1#5



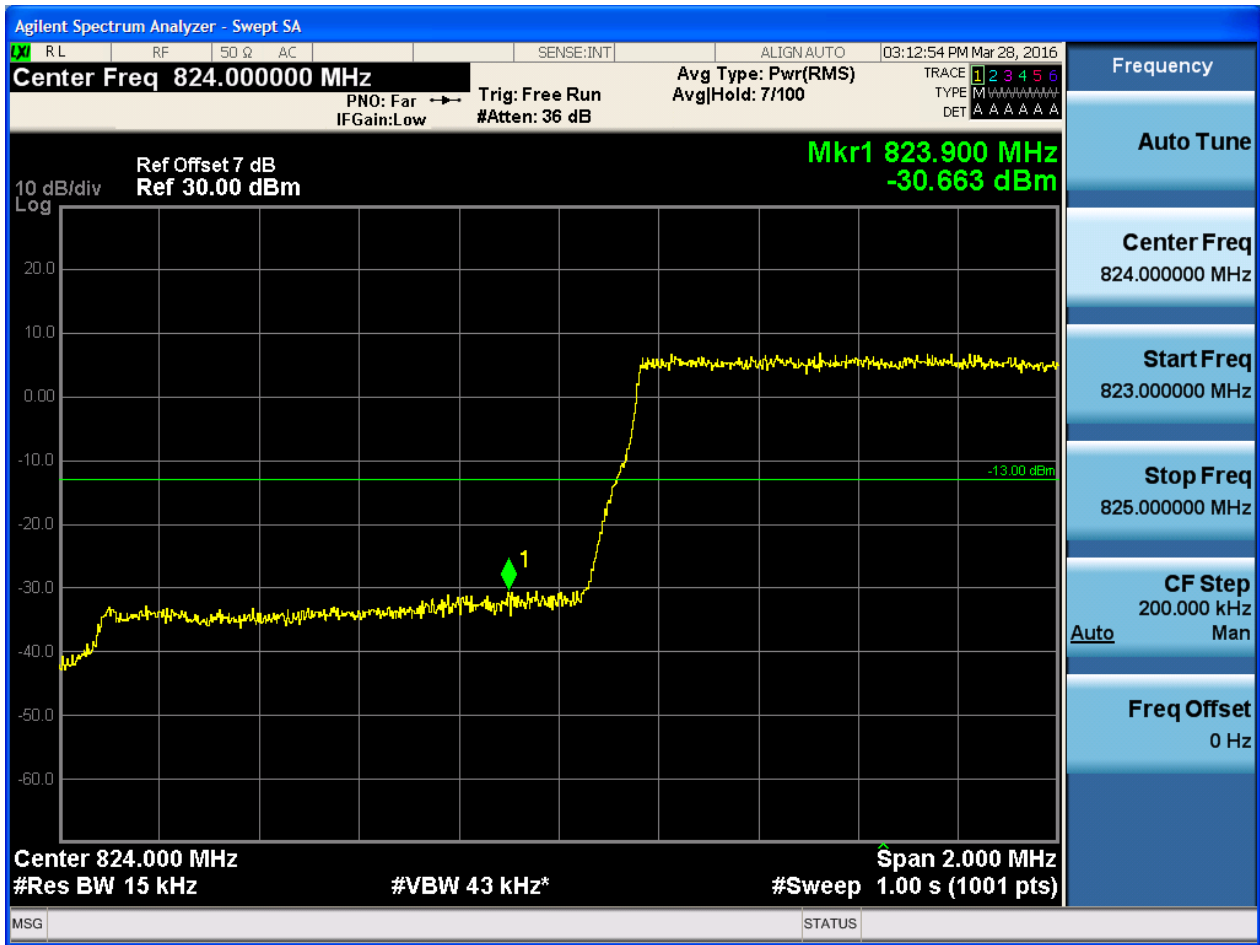


5.1.1.1.1.3 Test RB = RB3#2





5.1.1.1.1.4 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#5





5.1.1.1.2.3 Test RB = RB3#2



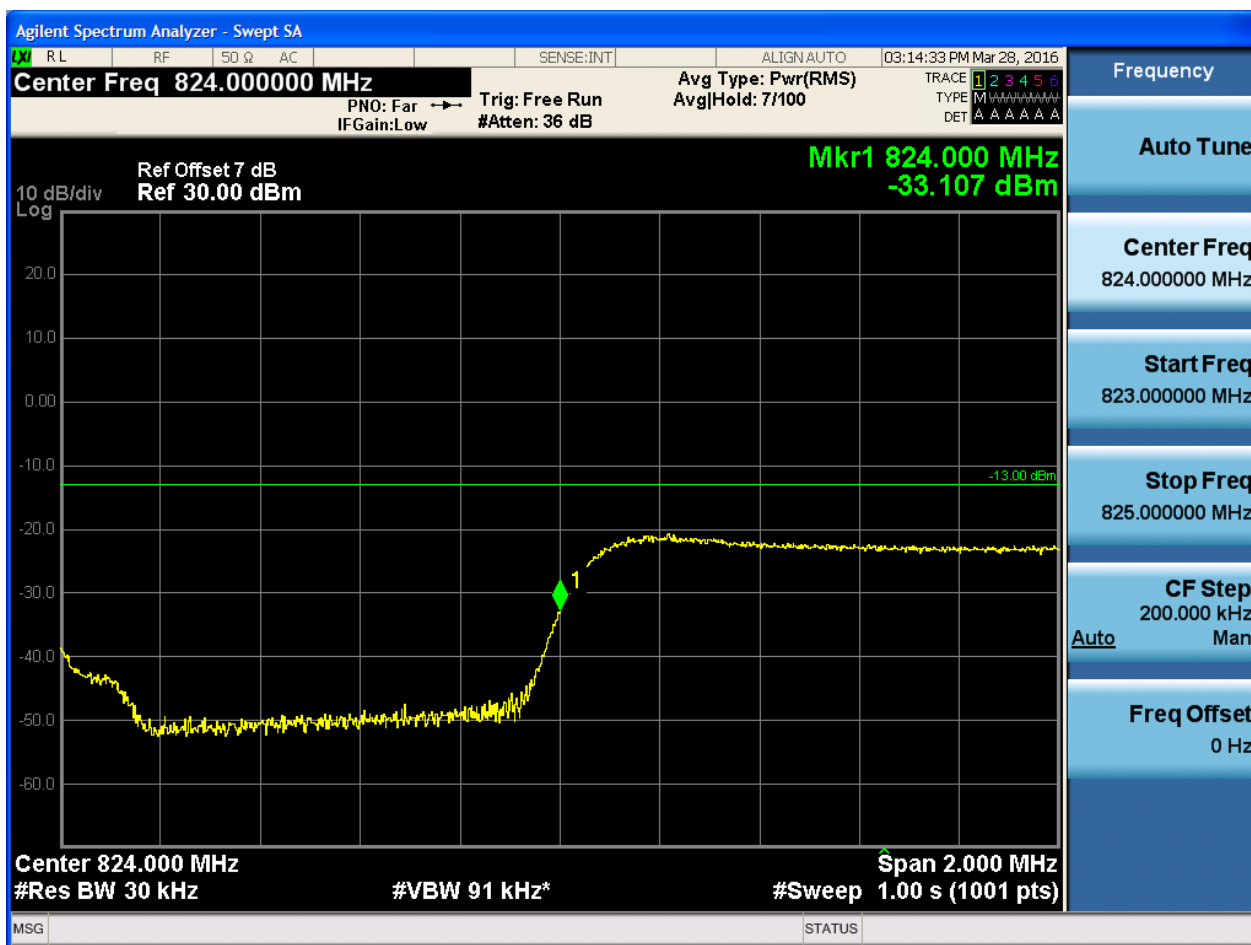


5.1.1.1.2.4 Test RB = RB6#0





5.1.1.1.2.1.2 Test RB = RB1#14



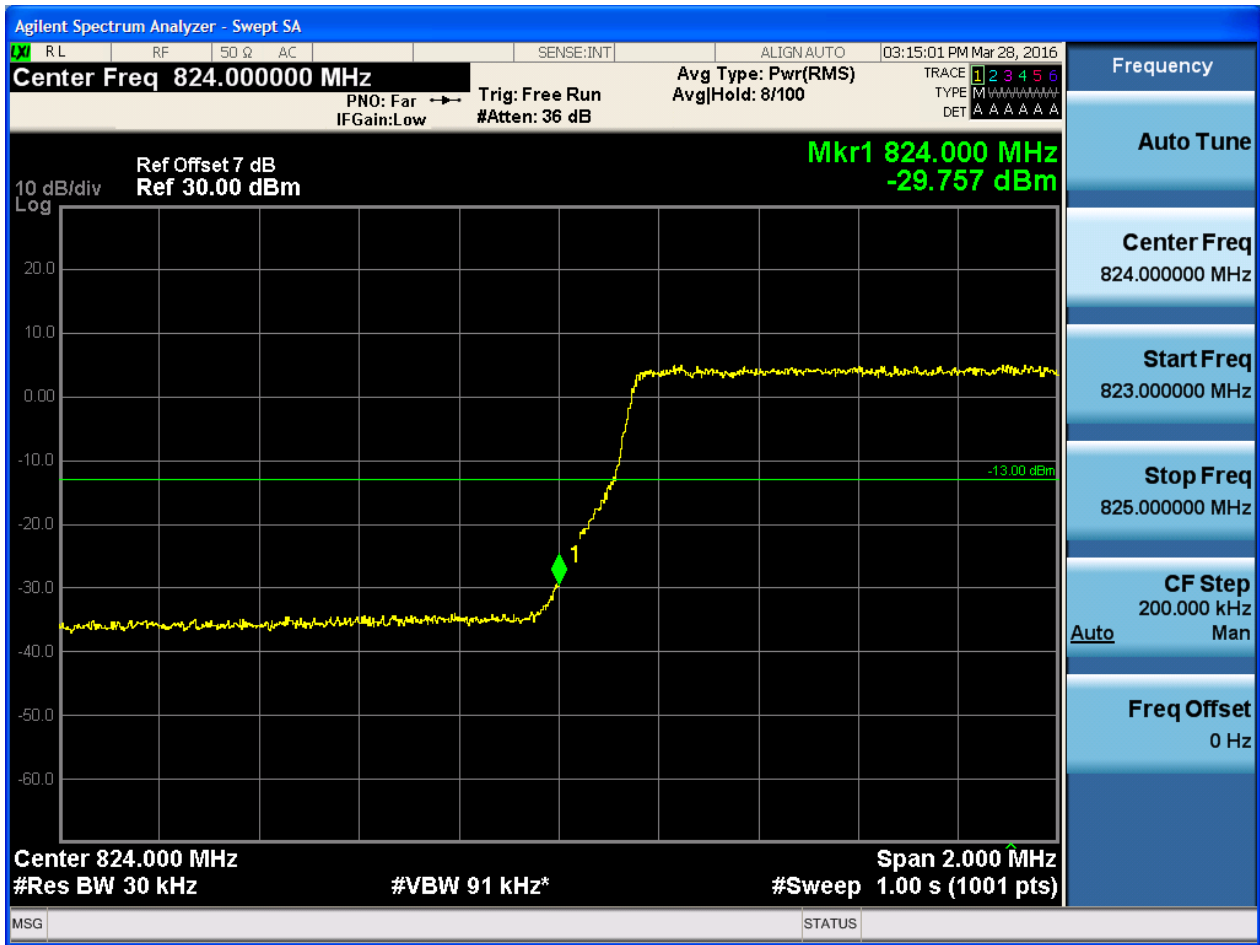


5.1.1.1.2.1.3 Test RB = RB8#4





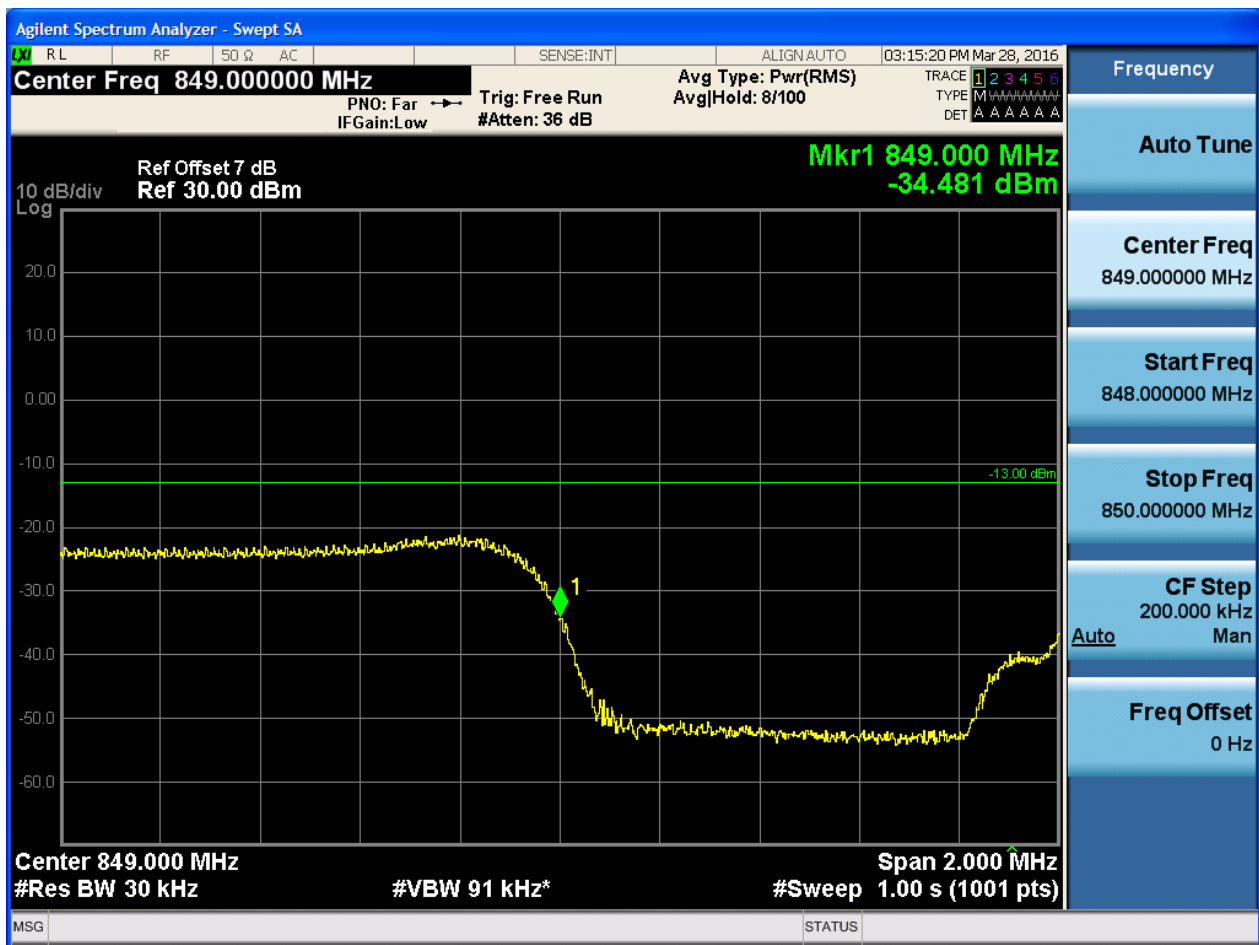
5.1.1.1.2.1.4 Test RB = RB15#0





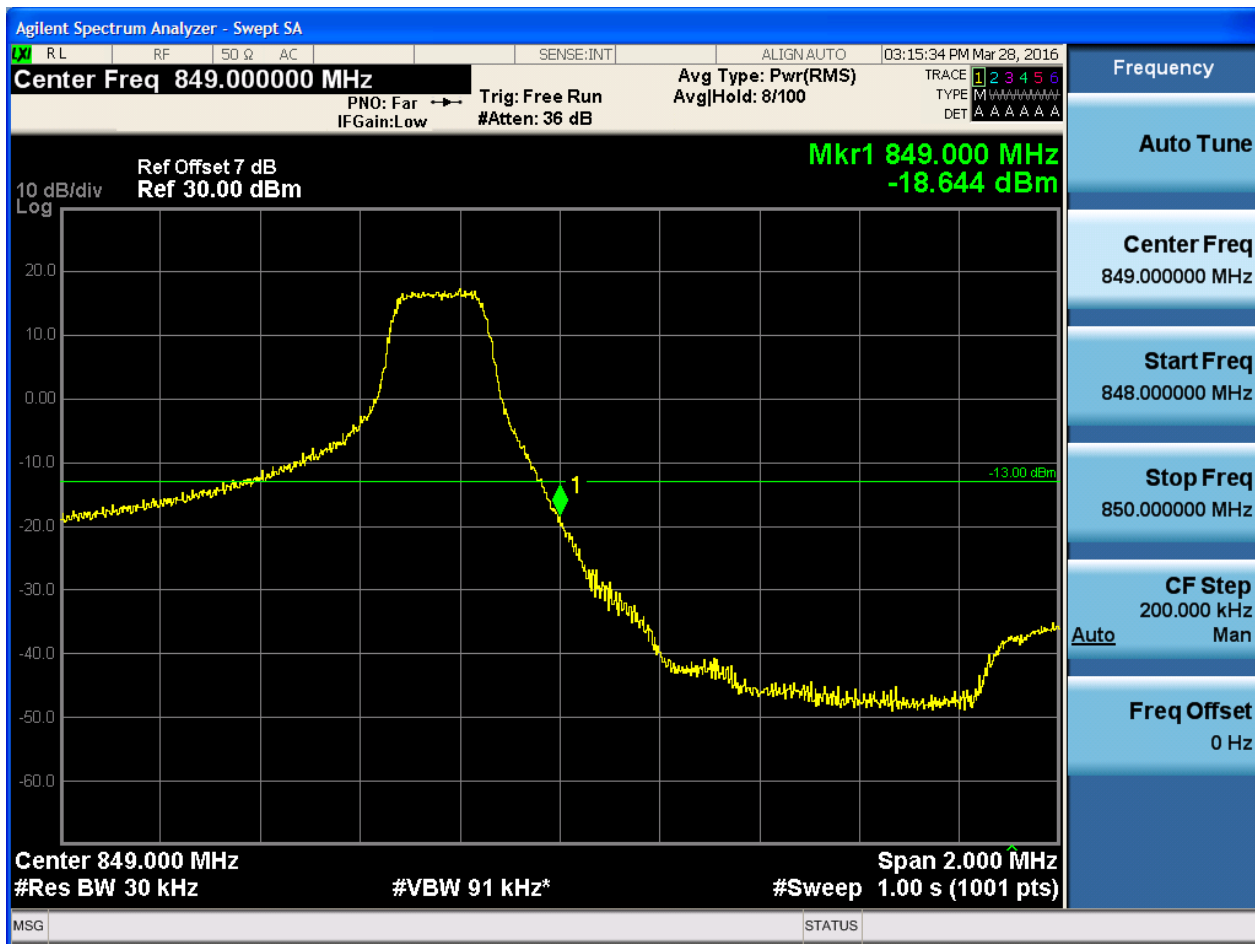
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





5.1.1.1.2.2.3 Test RB = RB8#4





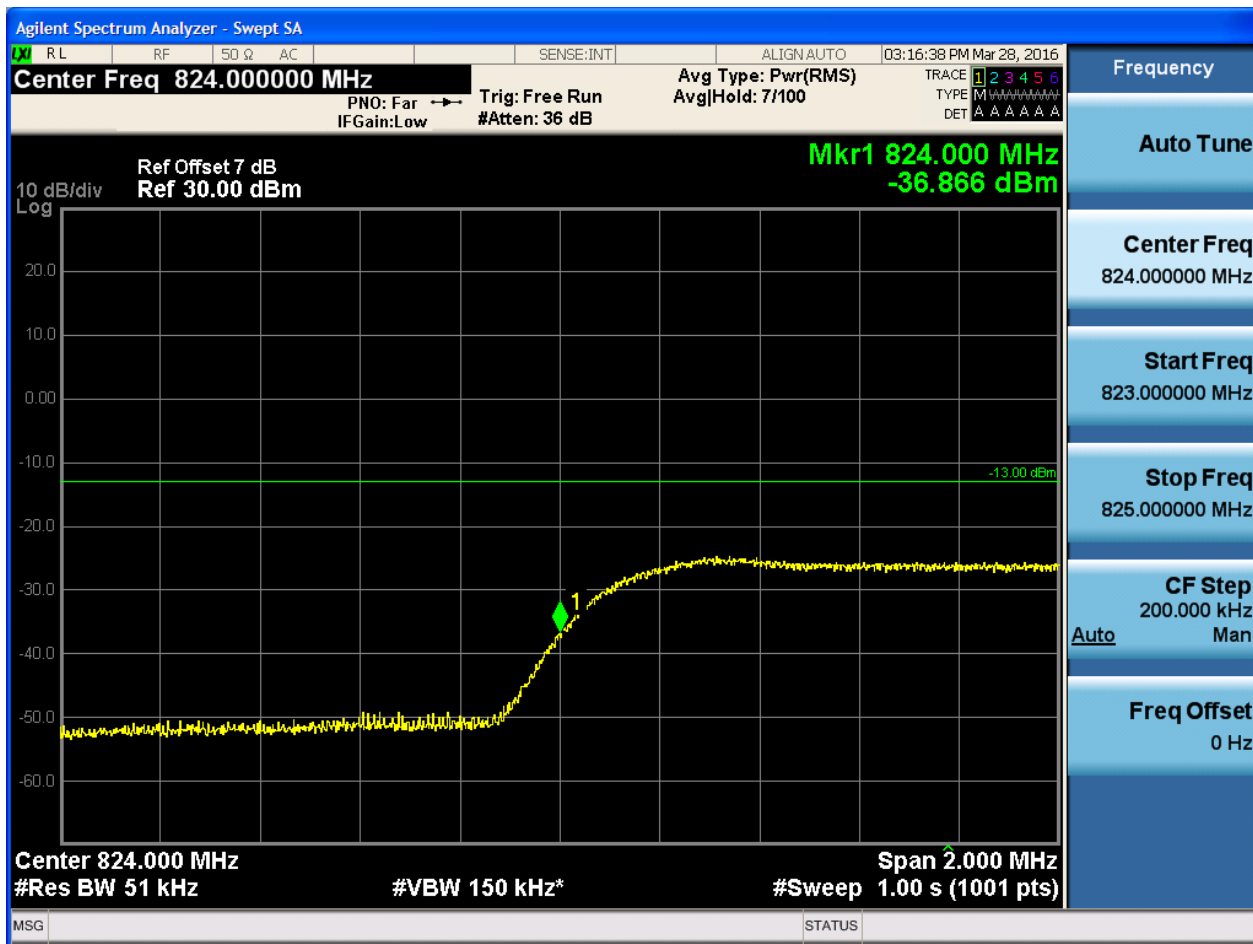
5.1.1.1.2.2.4 Test RB = RB15#0







5.1.1.1.3.1.2 Test RB = RB1#24



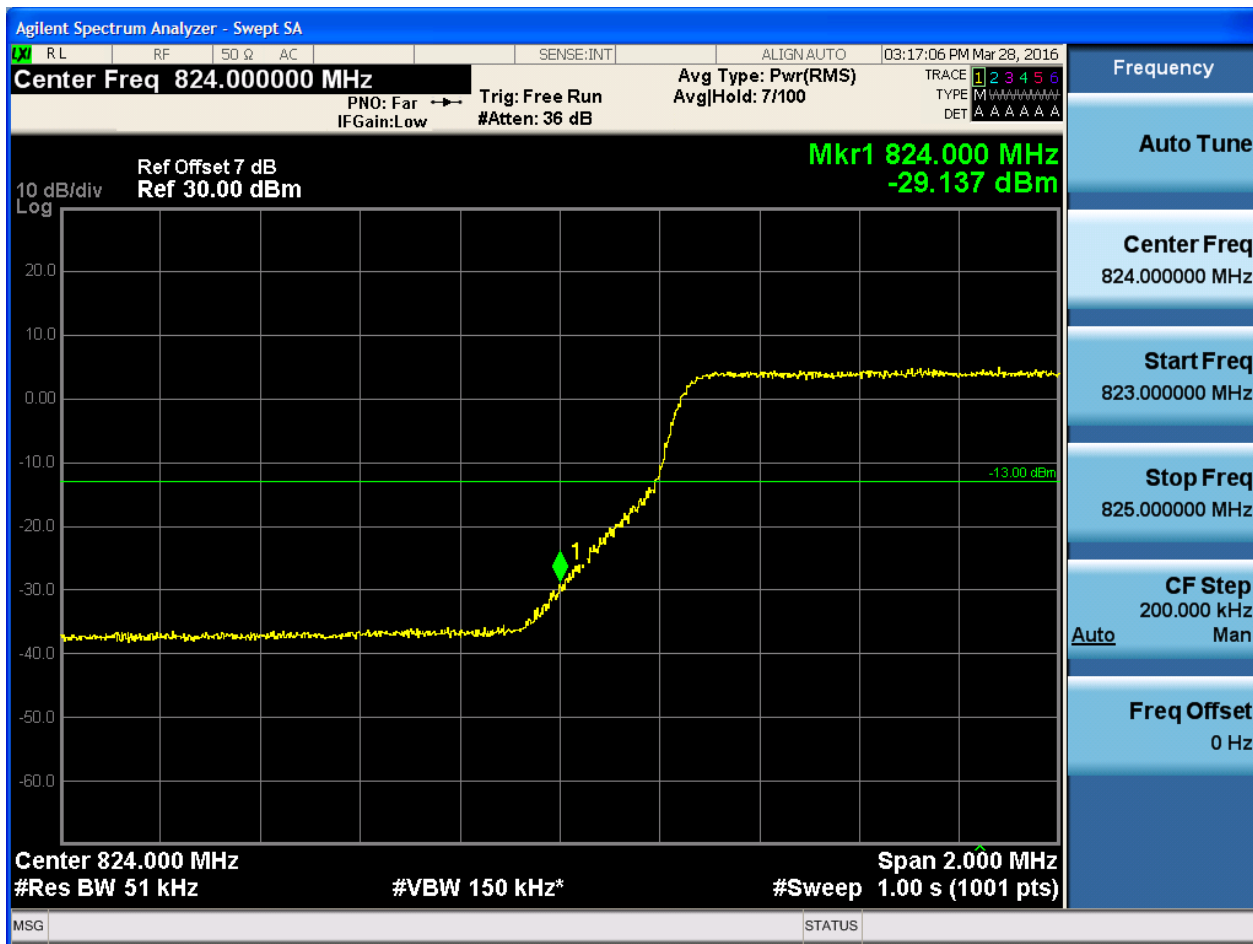


5.1.1.1.3.1.3 Test RB = RB12#6





5.1.1.1.3.1.4 Test RB = RB25#0





5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-34.629 dBm

Center 849.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



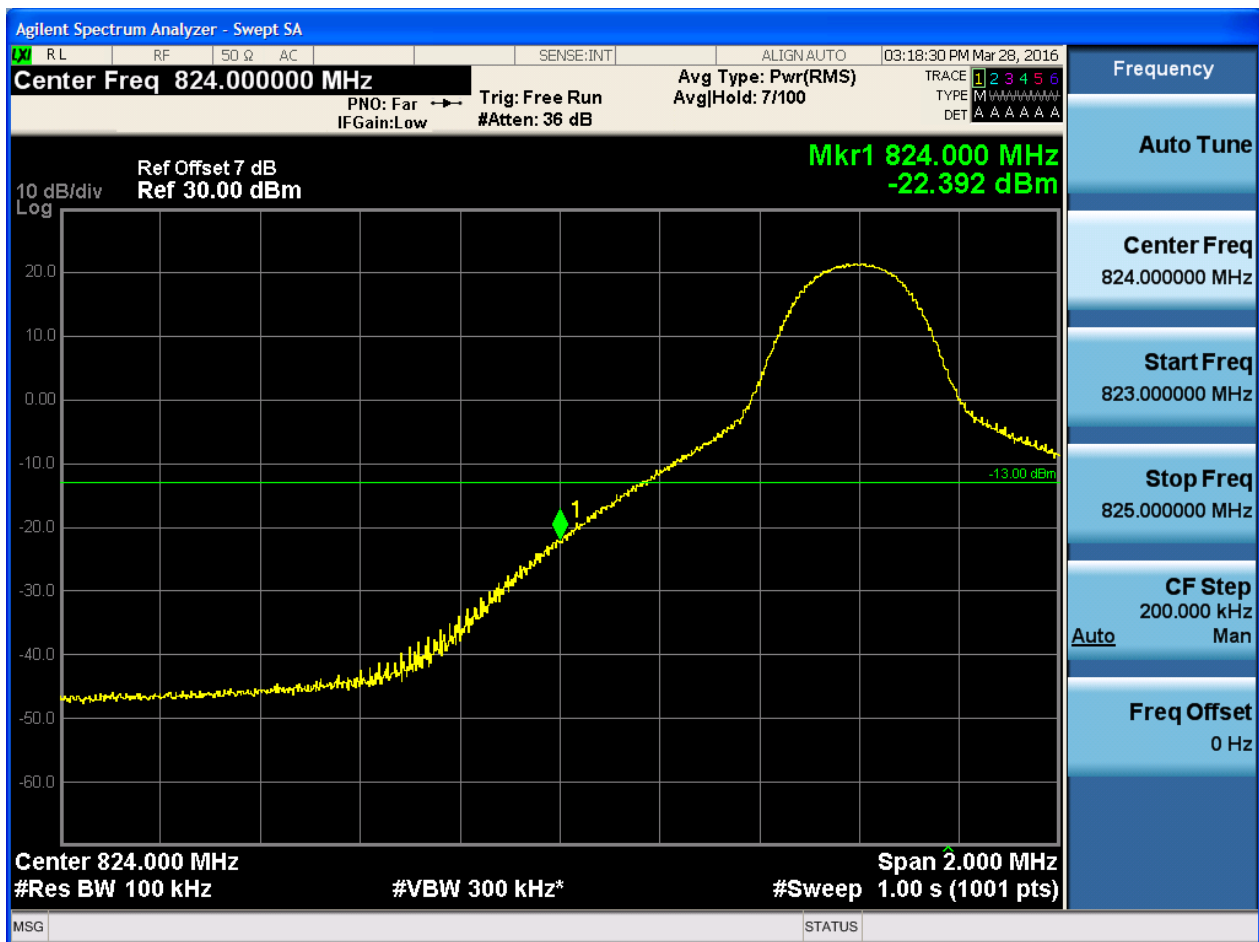
5.1.1.1.3.2.4 Test RB = RB25#0



5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-34.759 dBm

Center 824.000 MHz
#Res BW 100 kHz

#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-32.641 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

MSG STATUS

Detailed description: The image is a screenshot of an Agilent Spectrum Analyzer in 'Swept SA' mode. The main display is a log-frequency plot with a yellow trace showing a signal that rises from approximately -40 dBm at 823 MHz to 0 dBm at 825 MHz. A green horizontal line is set at -13.00 dBm. A yellow marker labeled '1' is positioned on the rising edge of the signal at approximately 824.0 MHz and -32.641 dBm. The top of the screen shows the center frequency as 824.000000 MHz. The right side features a vertical panel with various settings: 'Auto Tune', 'Center Freq' (824.000000 MHz), 'Start Freq' (823.000000 MHz), 'Stop Freq' (825.000000 MHz), 'CF Step' (200.000 kHz, Manual), and 'Freq Offset' (0 Hz). The bottom status bar shows 'MSG' and 'STATUS'.

Parameter	Value
Center Freq	824.000000 MHz
Ref Offset	7 dB
Ref	30.00 dBm
Marker 1 (Mkr1)	824.000 MHz, -32.641 dBm
Center	824.000 MHz
Resolution Bandwidth (#Res BW)	100 kHz
Video Bandwidth (#VBW)	300 kHz*
Span	2.000 MHz
Sweep Time (#Sweep)	1.00 s (1001 pts)
Auto Tune	Yes
Center Freq	824.000000 MHz
Start Freq	823.000000 MHz
Stop Freq	825.000000 MHz
CF Step	200.000 kHz (Manual)
Freq Offset	0 Hz



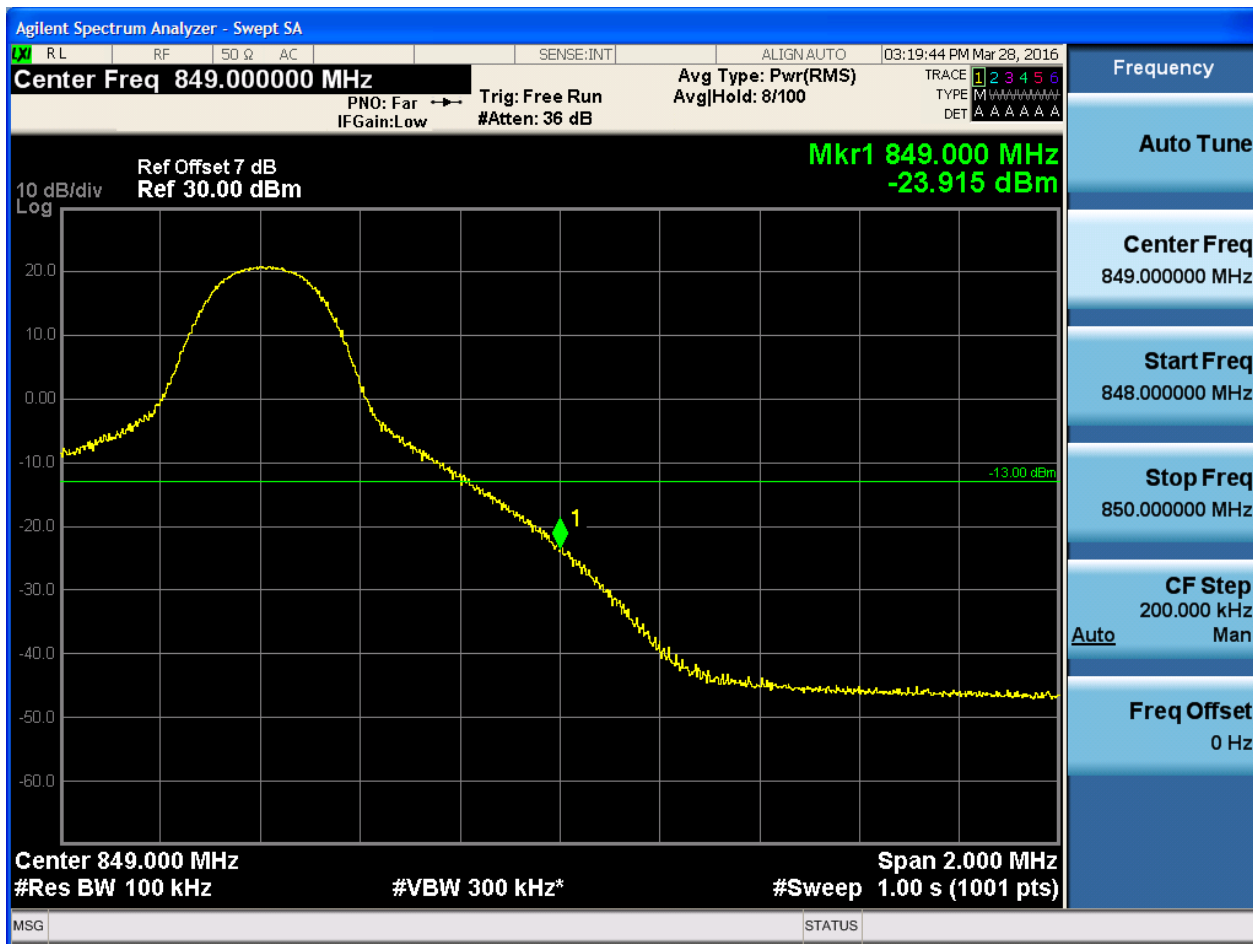
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0



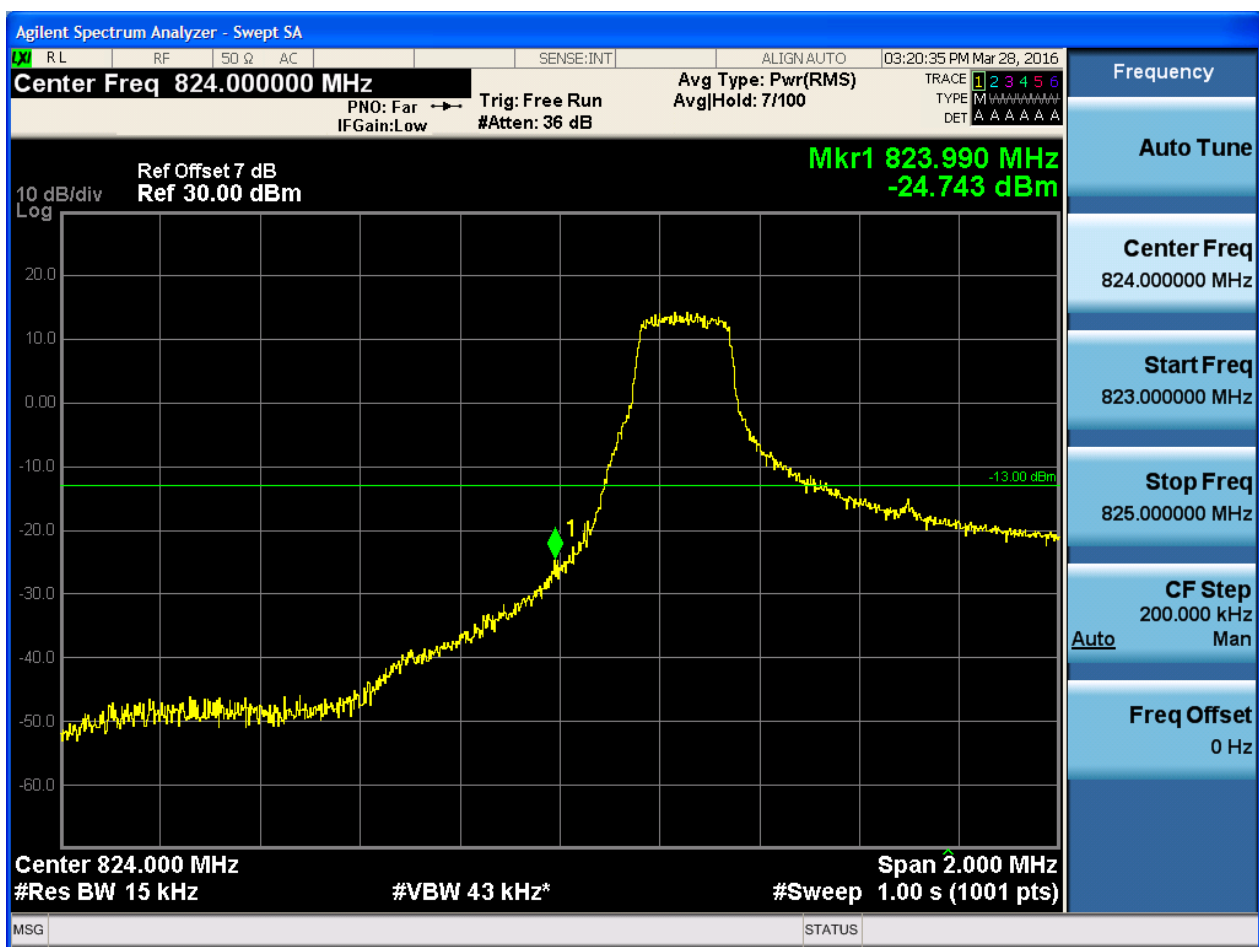


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



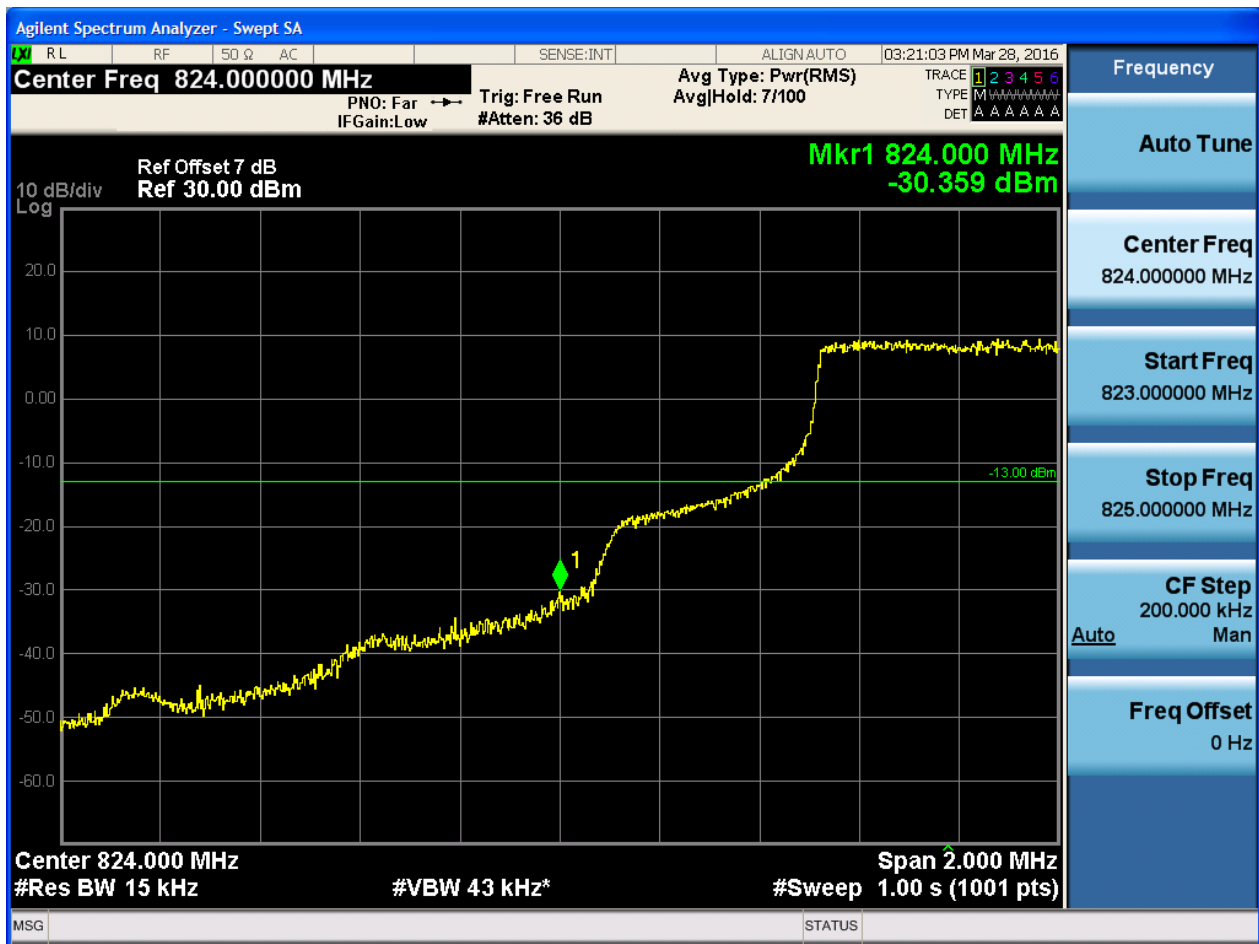


5.1.1.2.1.1.2 Test RB = RB1#5



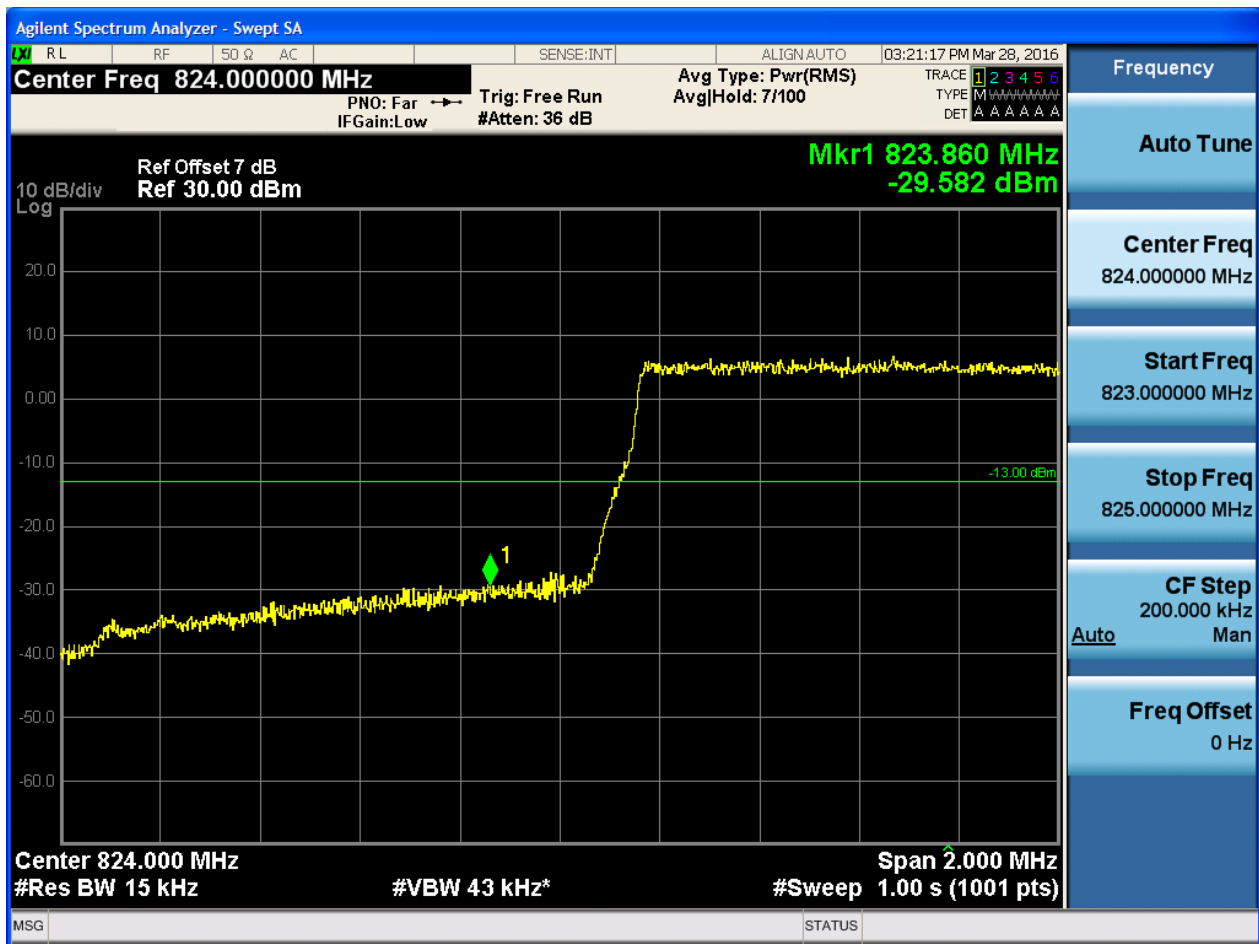


5.1.1.2.1.1.3 Test RB = RB3#2





5.1.1.2.1.1.4 Test RB = RB6#0



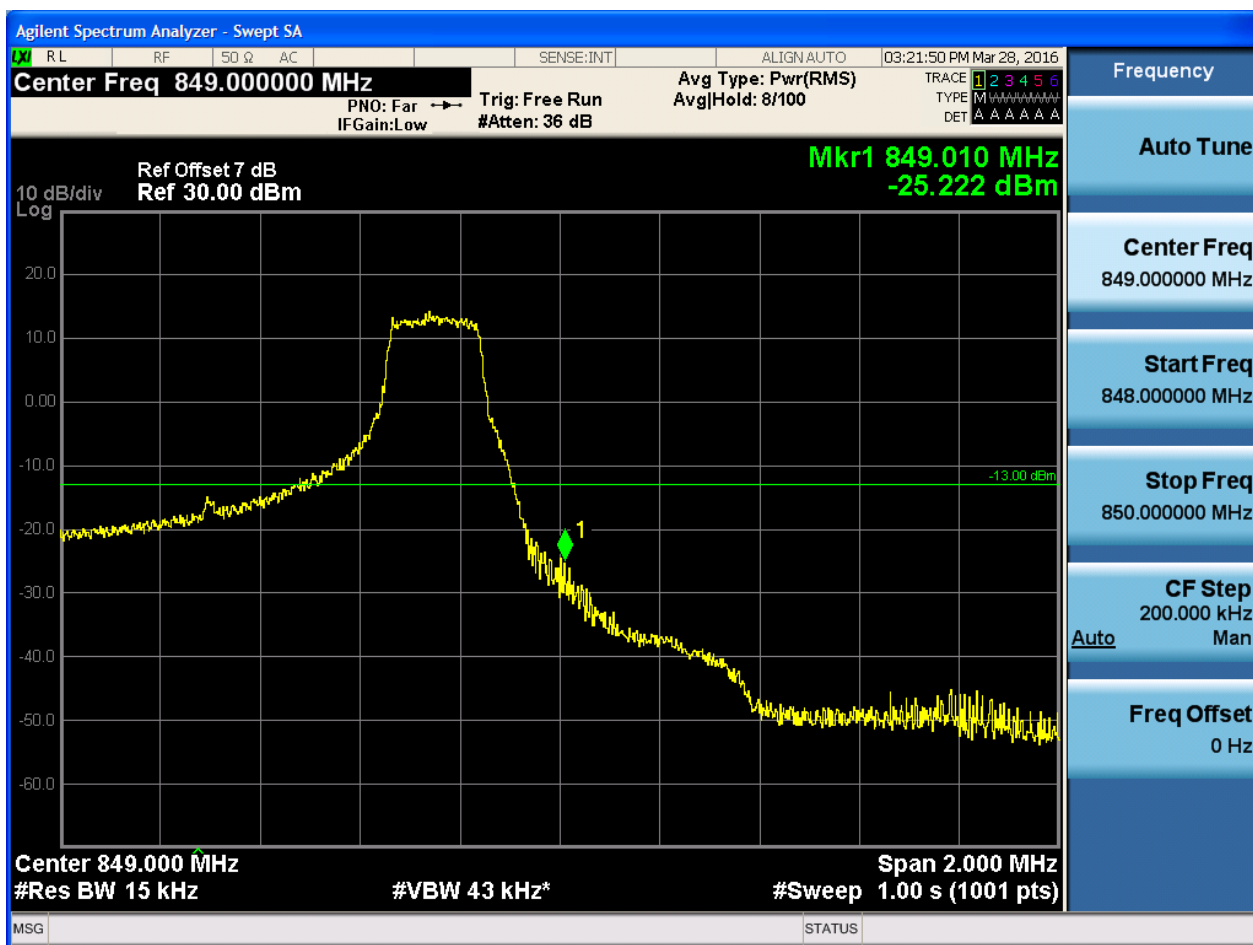


5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:22:04 PM Mar 28, 2016

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PNO: Far Trig: Free Run TYPE M W W W W W W W
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7 dB Mkr1 849.000 MHz
Ref 30.00 dBm -29.895 dBm

10 dB/div Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

848.000000 MHz
850.000000 MHz

-13.00 dBm

1

Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz
Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency
Auto Tune
Center Freq
Start Freq
Stop Freq
CF Step
Auto
Man
Freq Offset
0 Hz

MSG STATUS



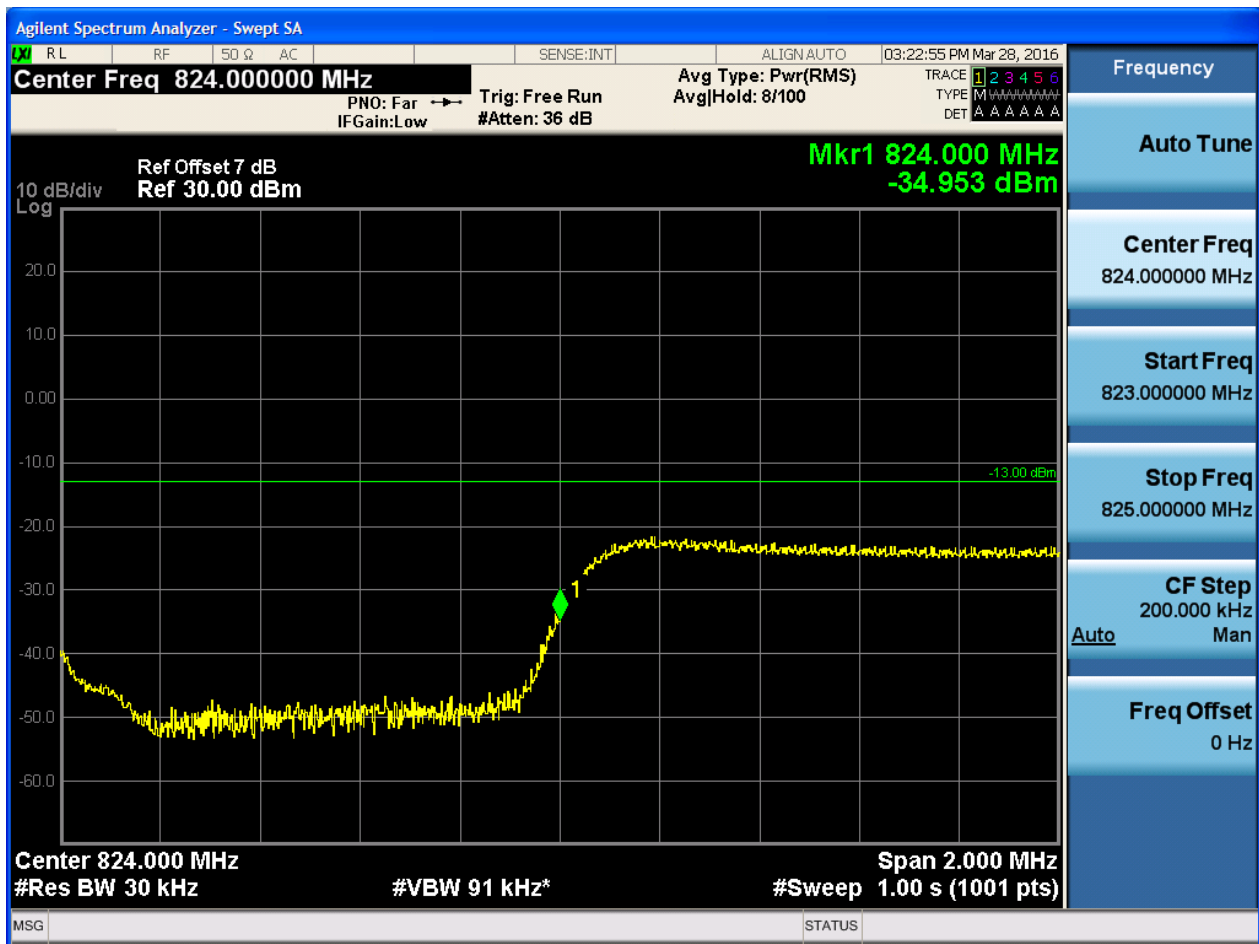
5.1.1.2.1.2.4 Test RB = RB6#0





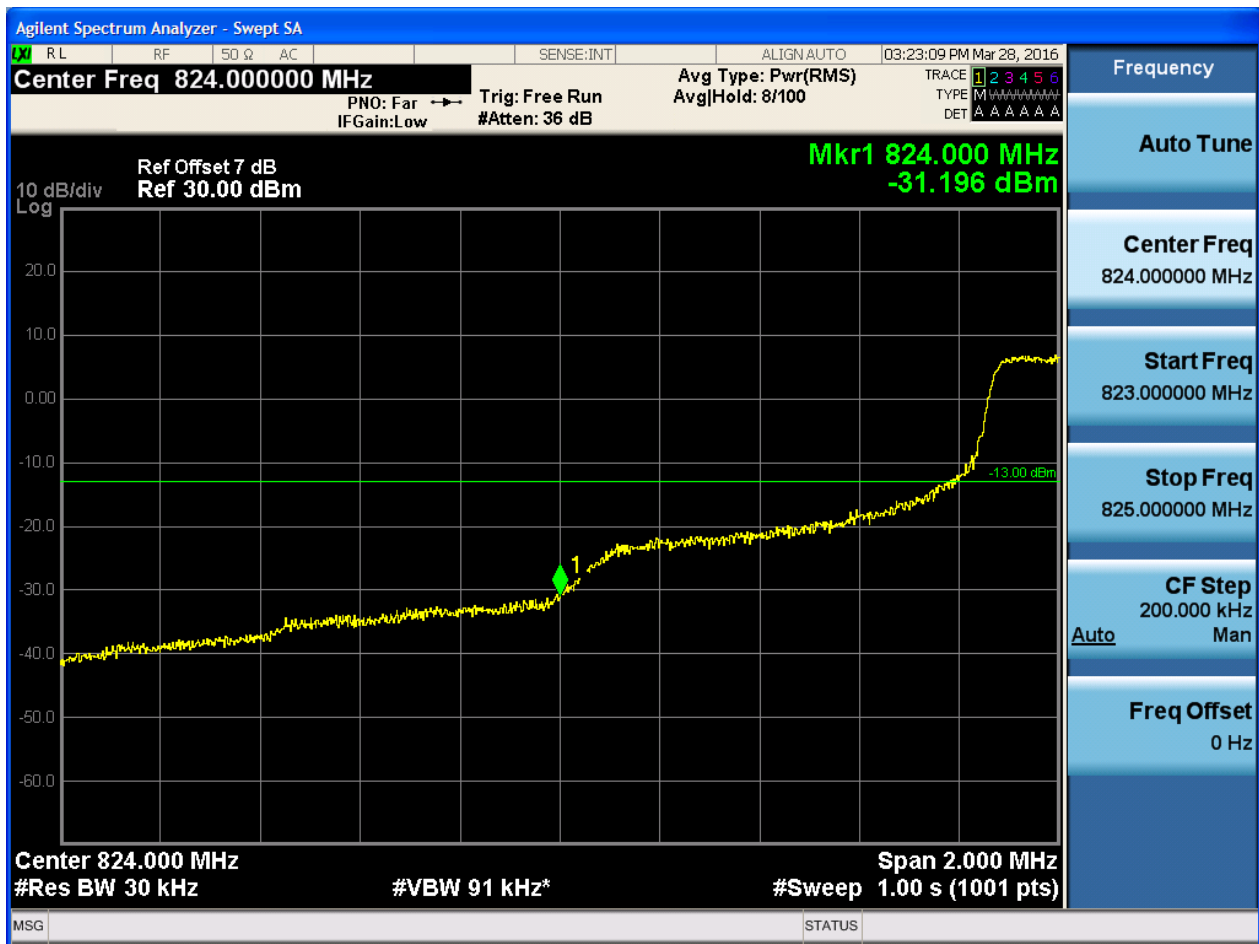


5.1.1.2.2.1.2 Test RB = RB1#14



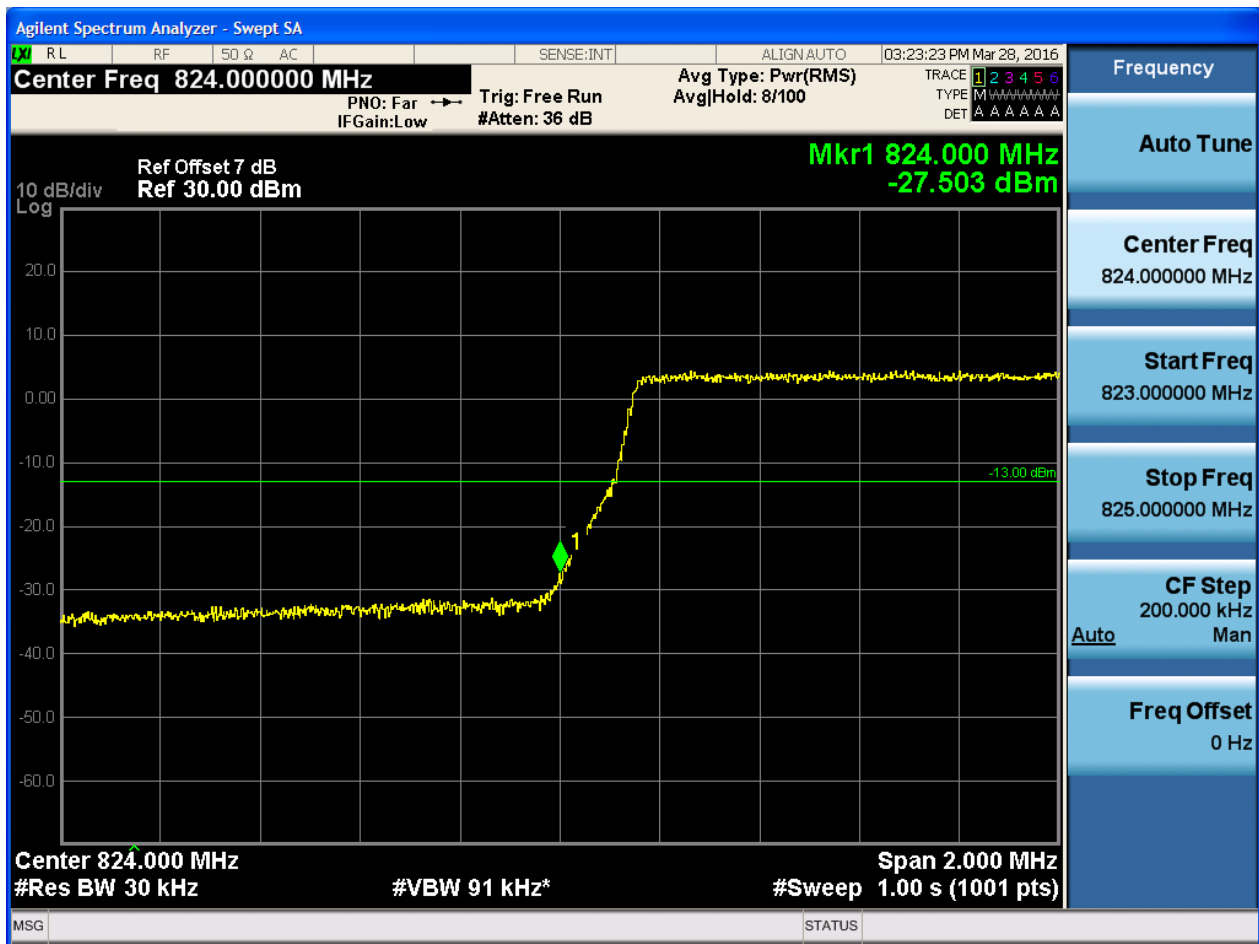


5.1.1.2.2.1.3 Test RB = RB8#4





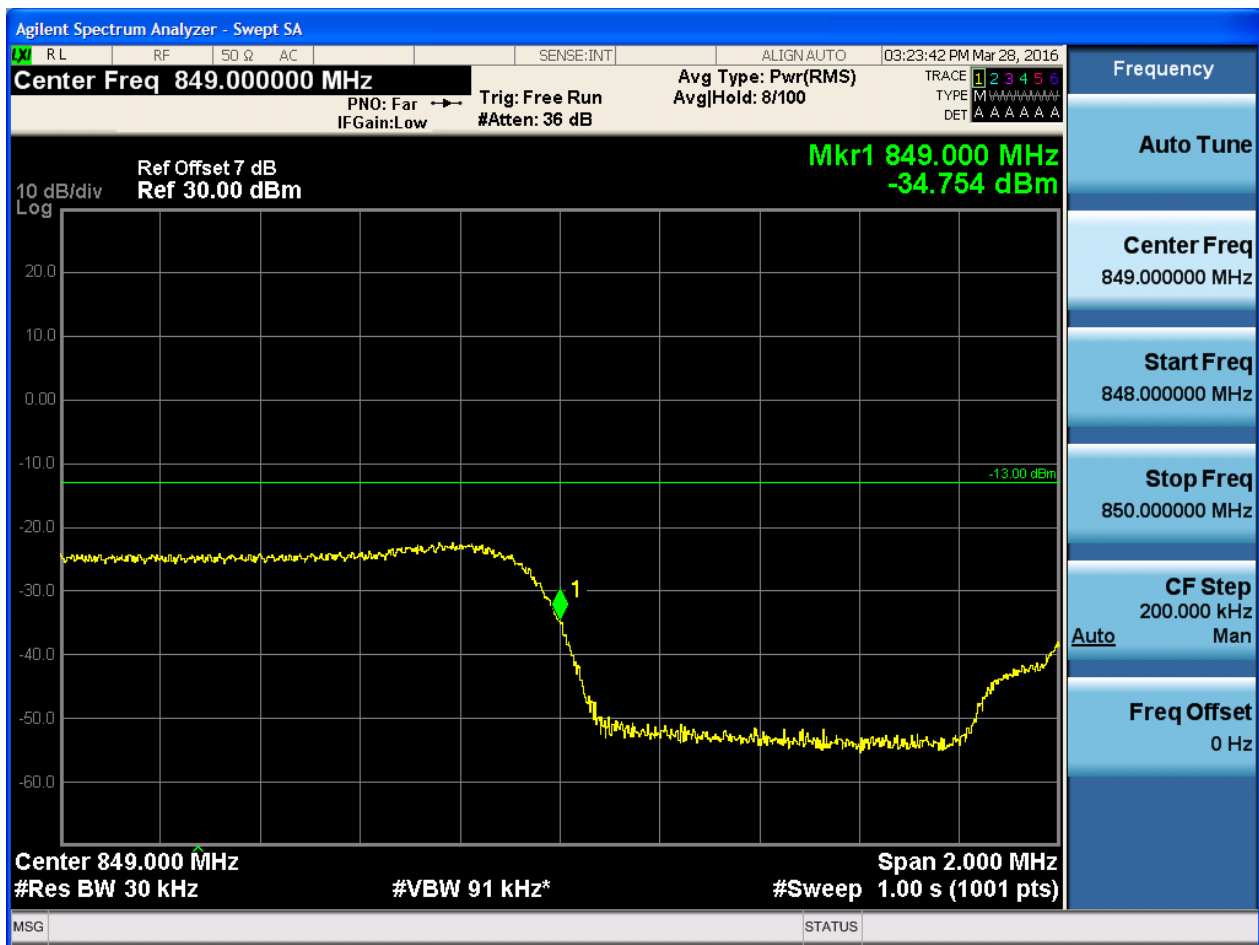
5.1.1.2.2.1.4 Test RB = RB15#0





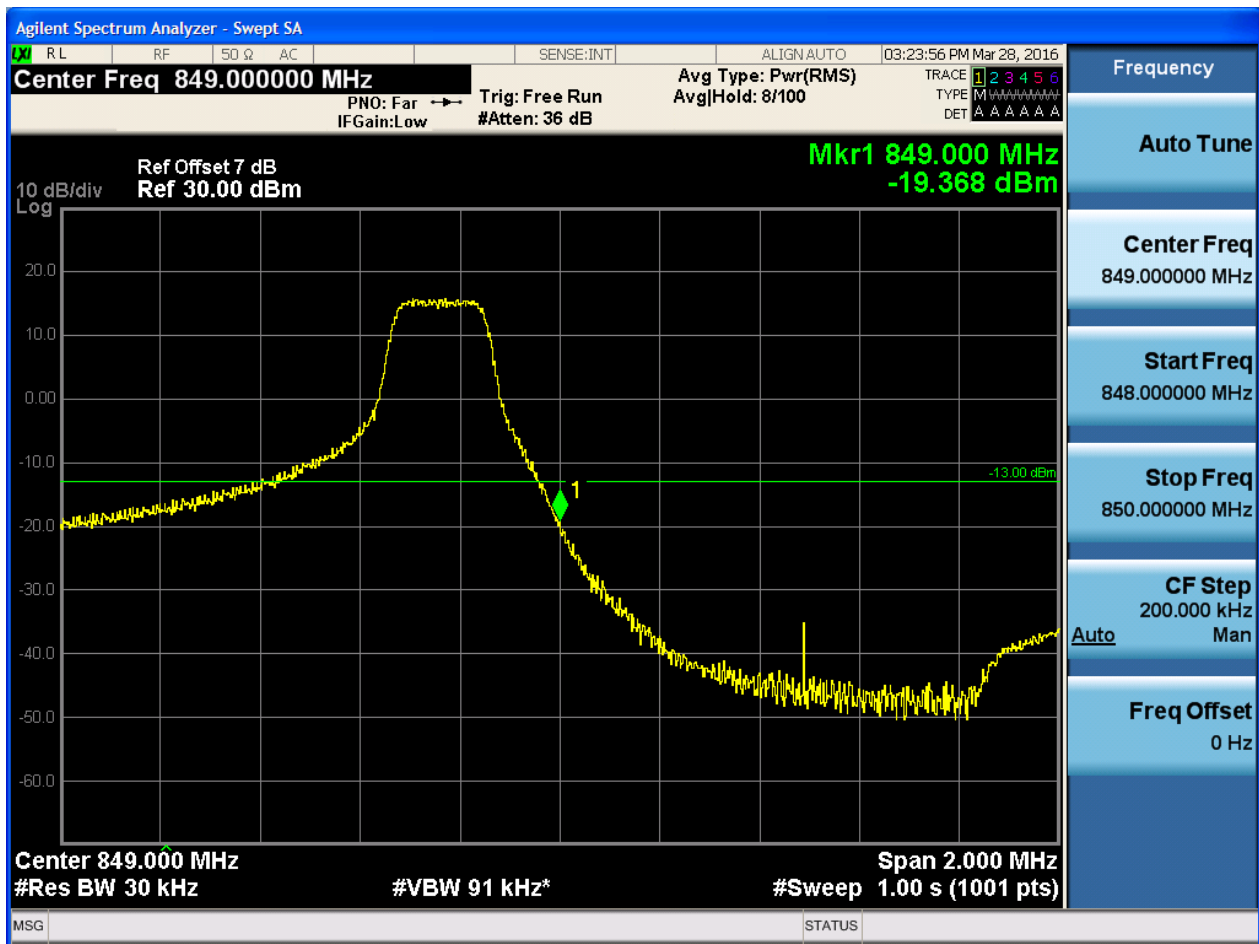
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14



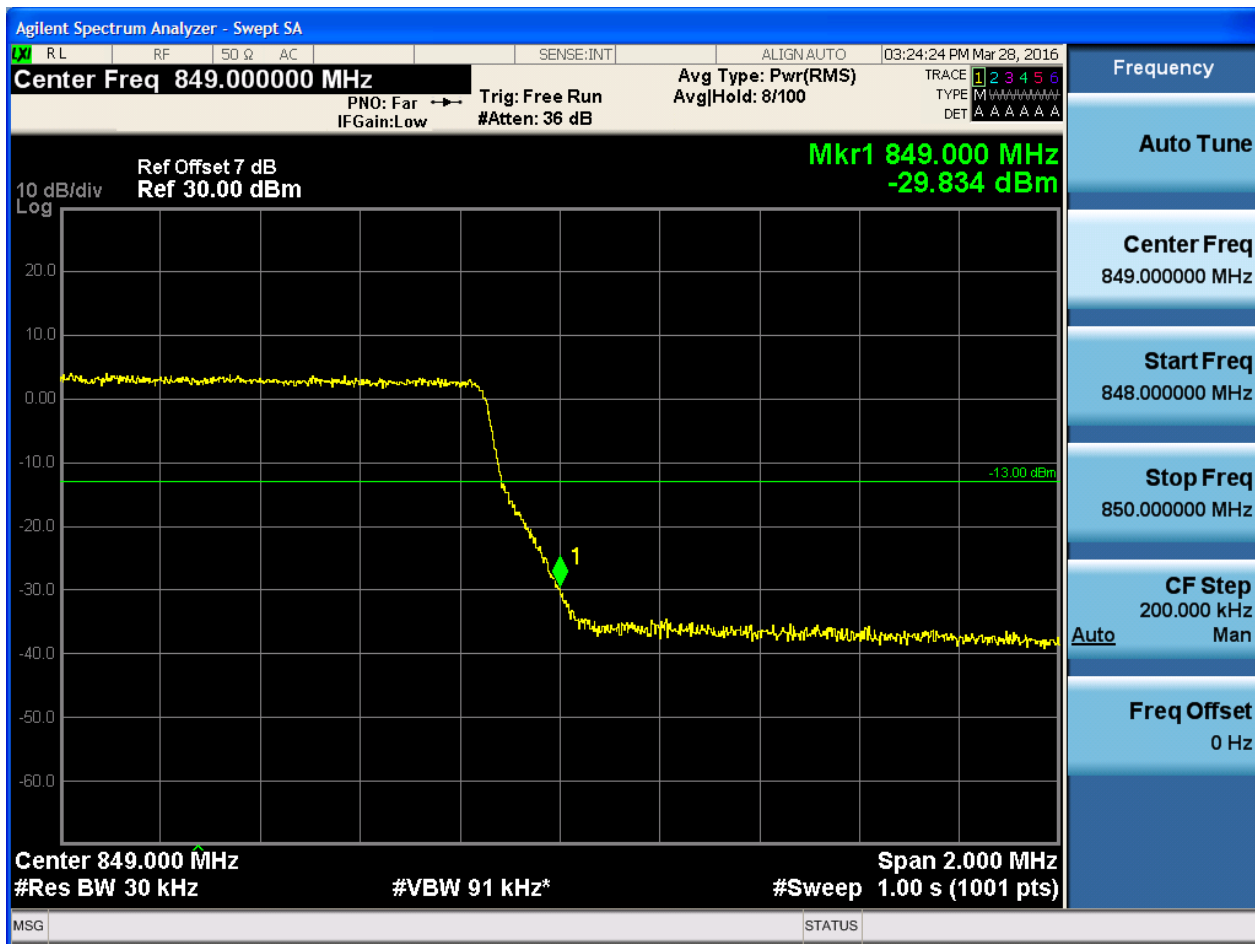


5.1.1.2.2.3 Test RB = RB8#4





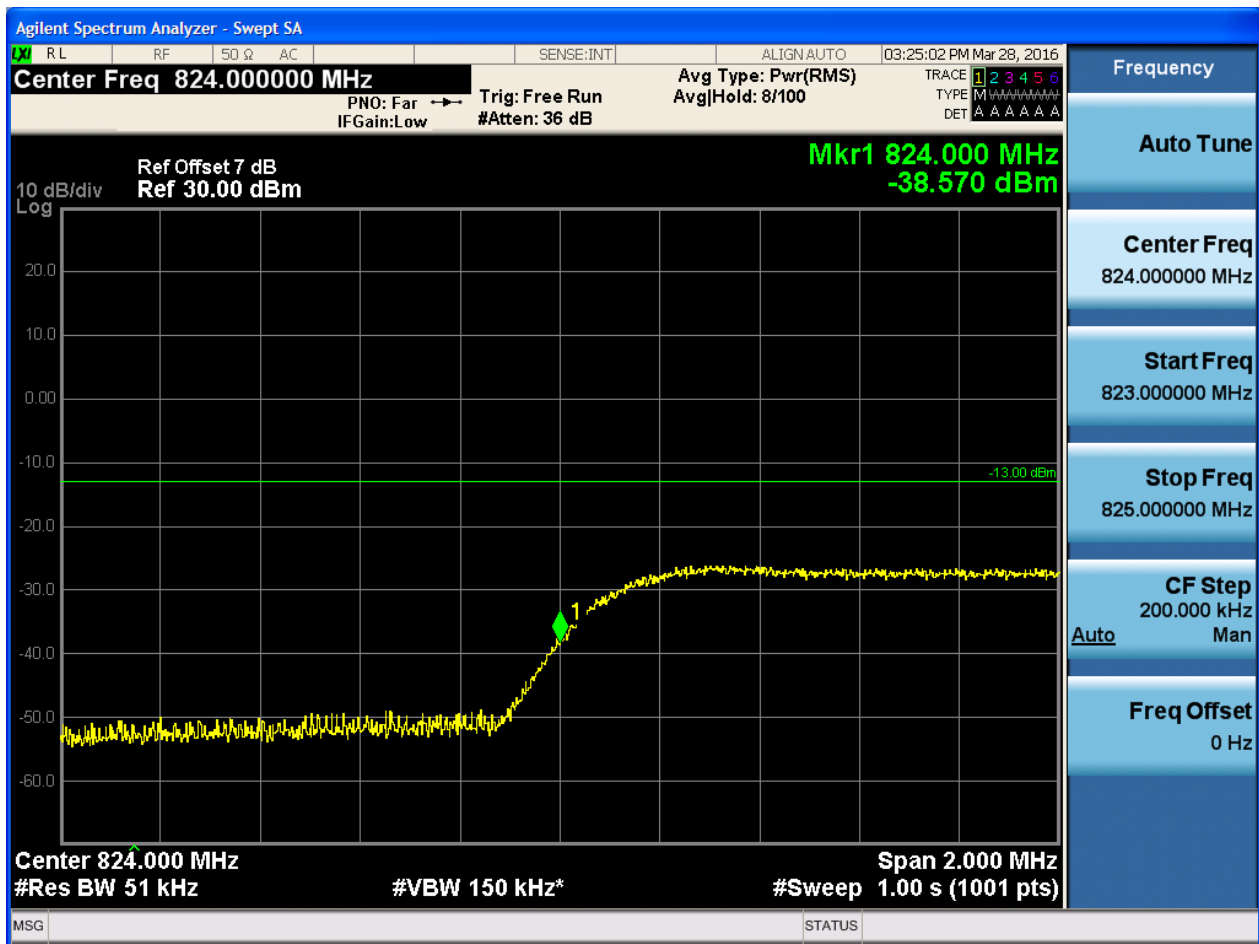
5.1.1.2.2.4 Test RB = RB15#0







5.1.1.2.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-31.141 dBm

Center 824.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

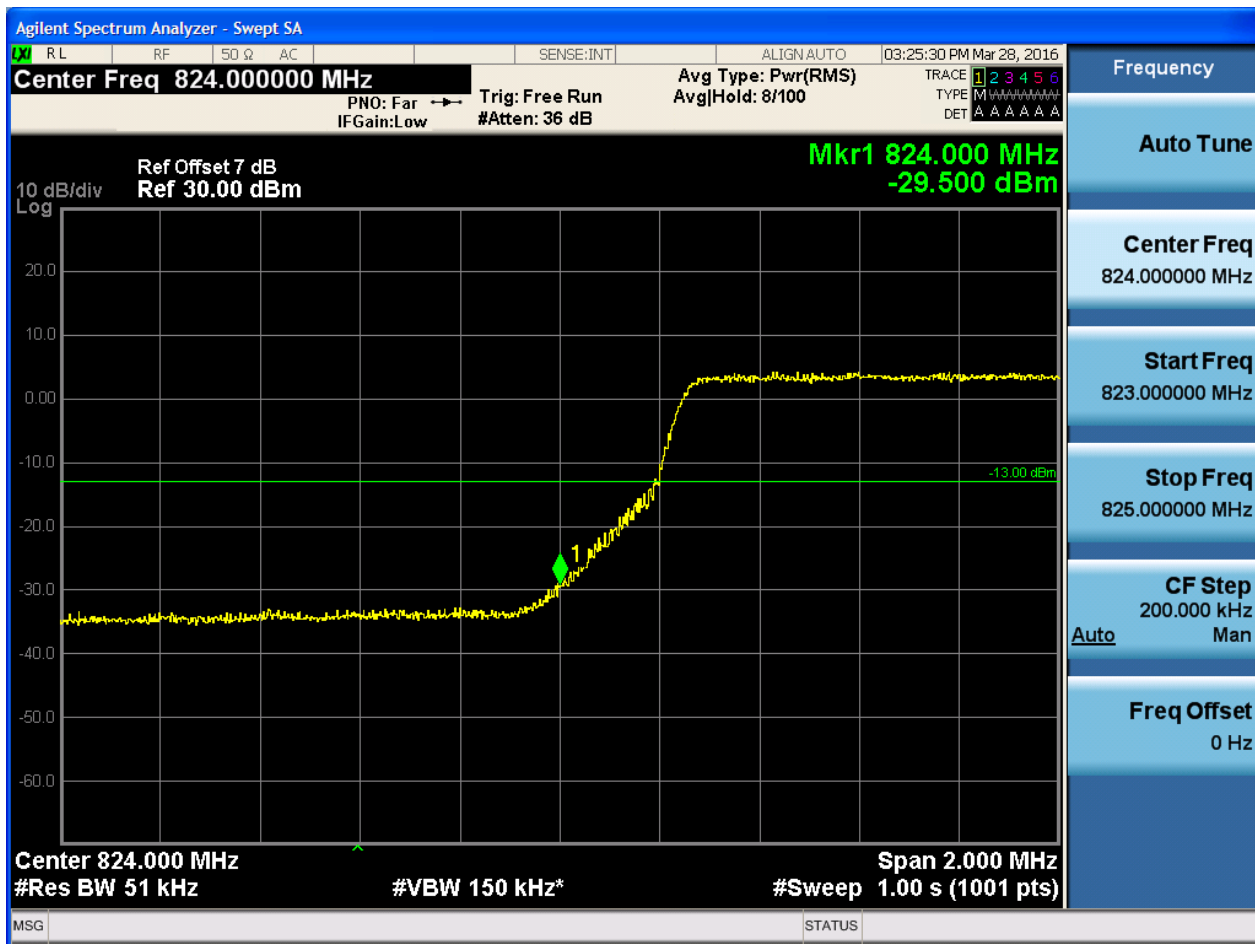
Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-linear plot of the spectrum. The horizontal axis represents frequency, ranging from 823.000000 MHz to 825.000000 MHz. The vertical axis represents power in dBm, ranging from -60.0 to 20.0. A yellow trace shows the spectrum, which is relatively flat around -35 dBm with some noise. A green marker labeled '1' is placed on the trace at 824.000 MHz, indicating a measurement of -31.141 dBm. The background is black with a white grid. Various settings and parameters are displayed around the plot area, including Center Freq, Span, Res BW, and various offsets. The top of the screen shows the instrument name and the date/time. The right side of the screen has a blue sidebar with buttons for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset.



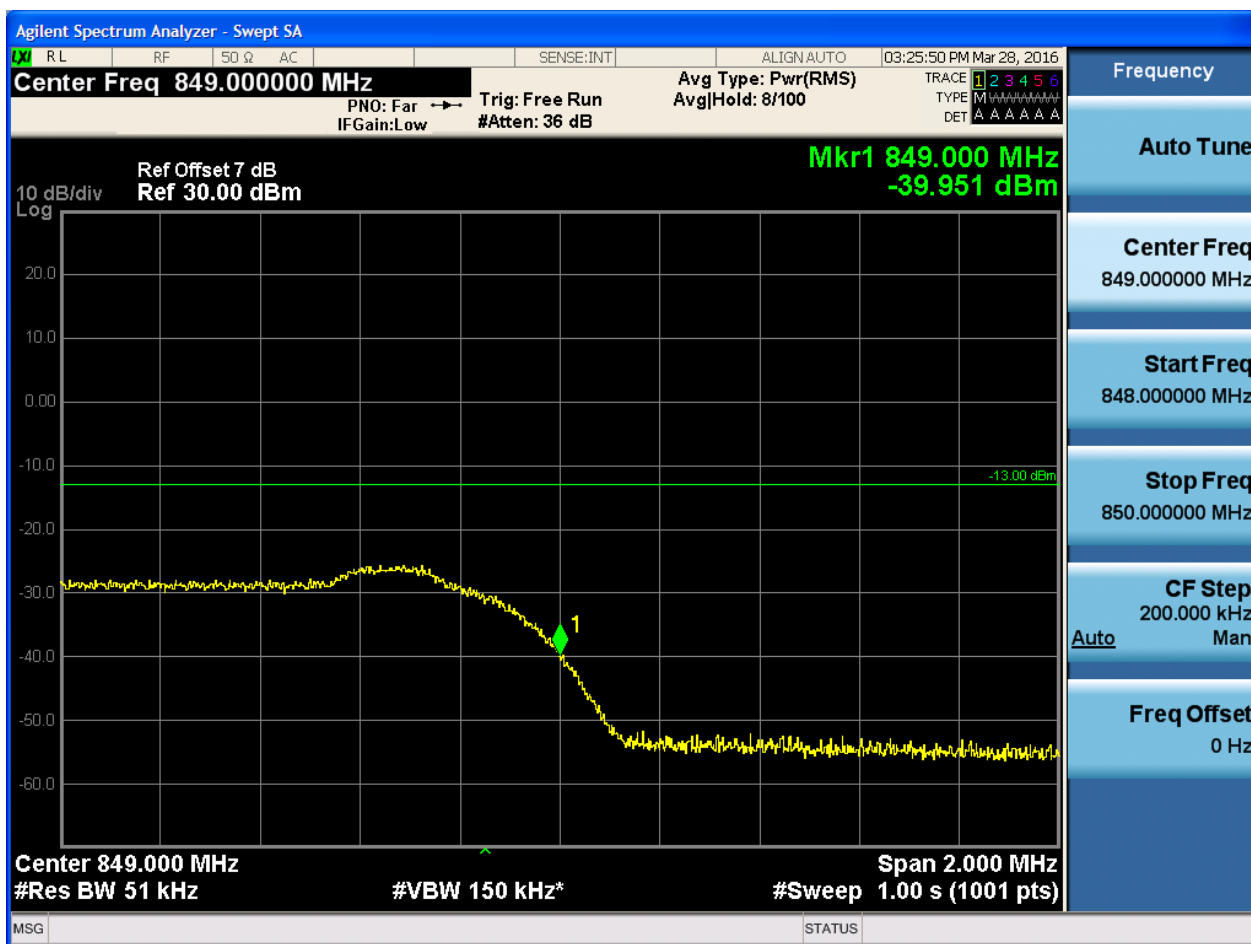
5.1.1.2.3.1.4 Test RB = RB25#0





5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-20.943 dBm

Center 849.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.2.3.2.3 Test RB = RB12#6





5.1.1.2.3.2.4 Test RB = RB25#0

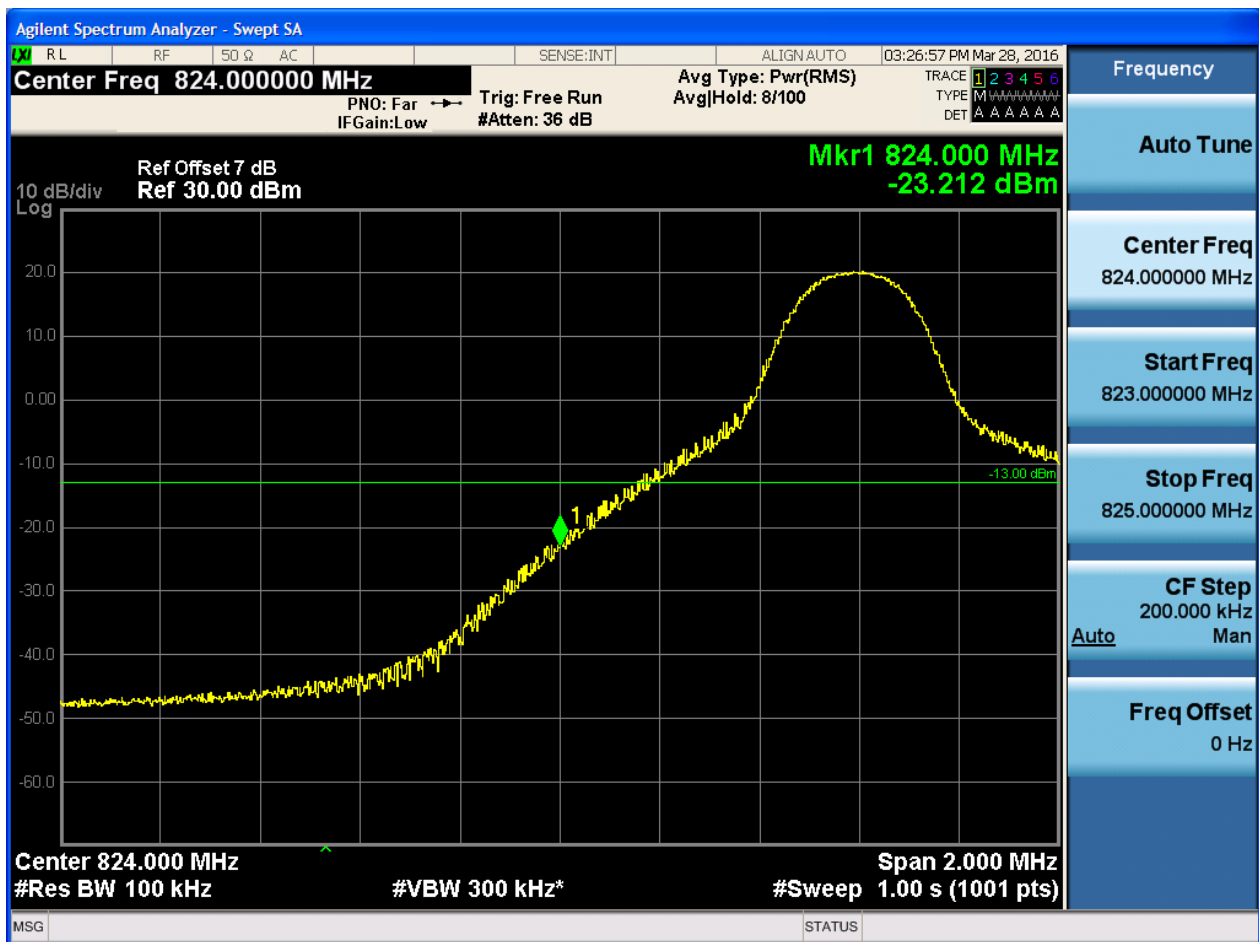




5.1.1.2.4 Test Bandwidth = 10

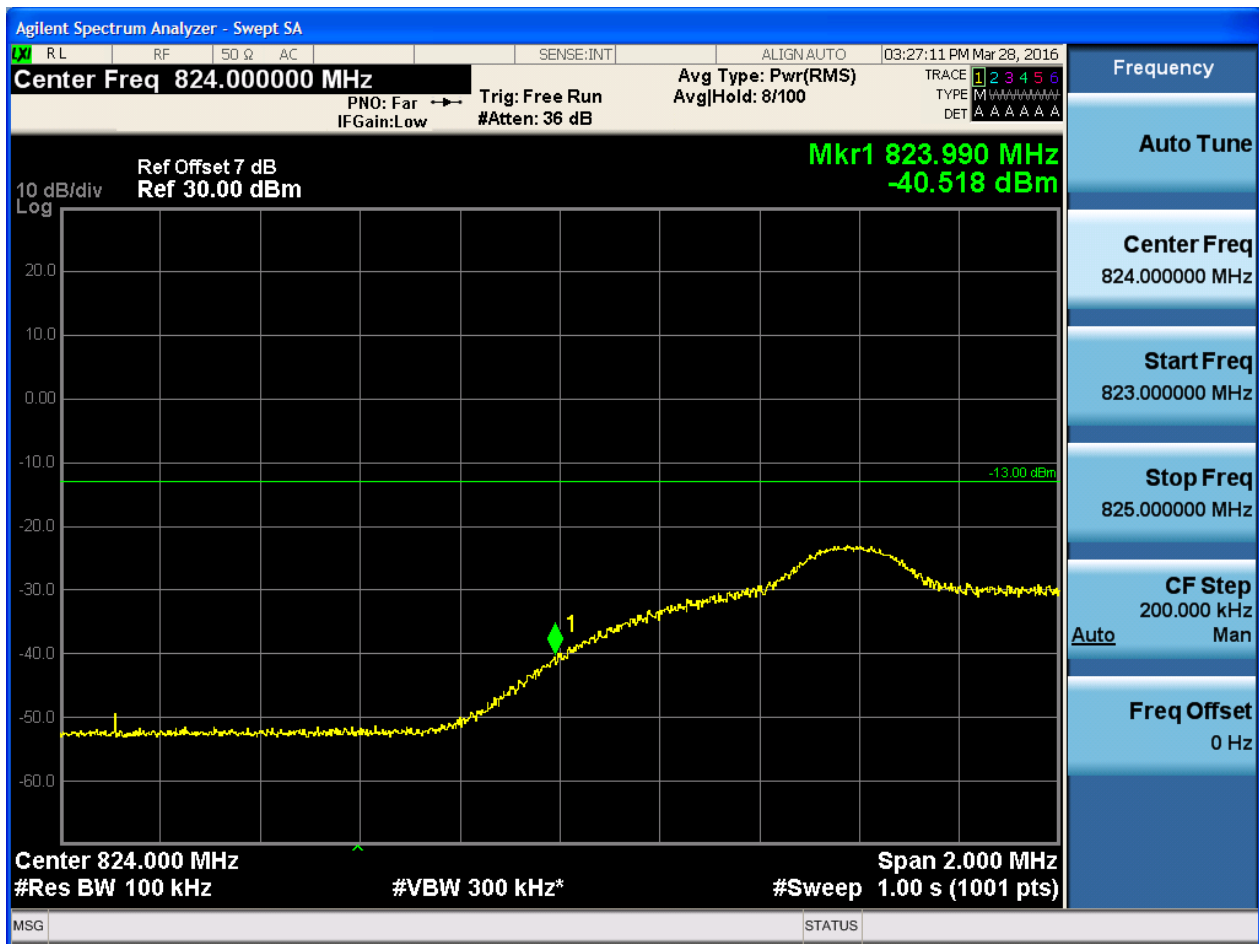
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



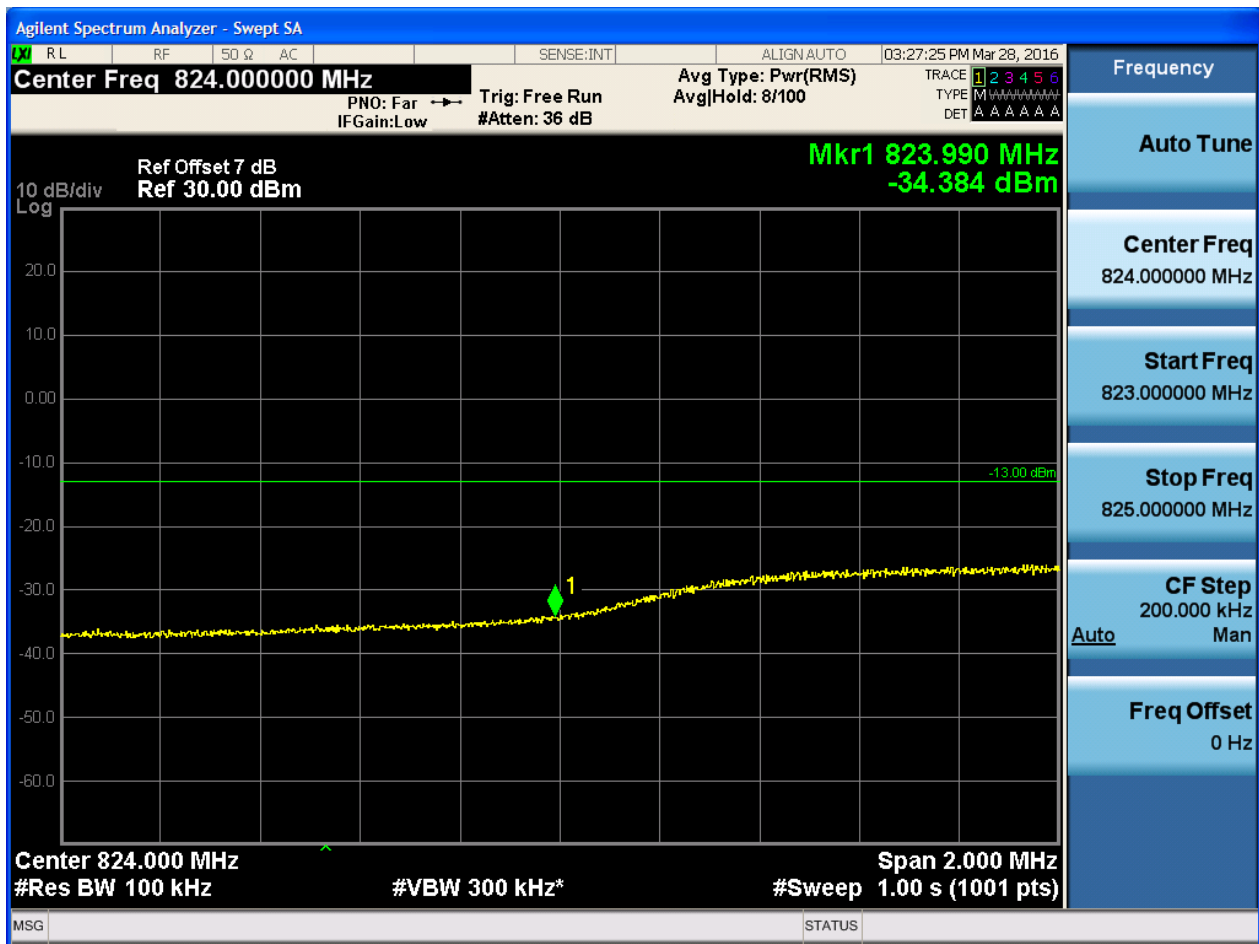


5.1.1.2.4.1.2 Test RB = RB1#49



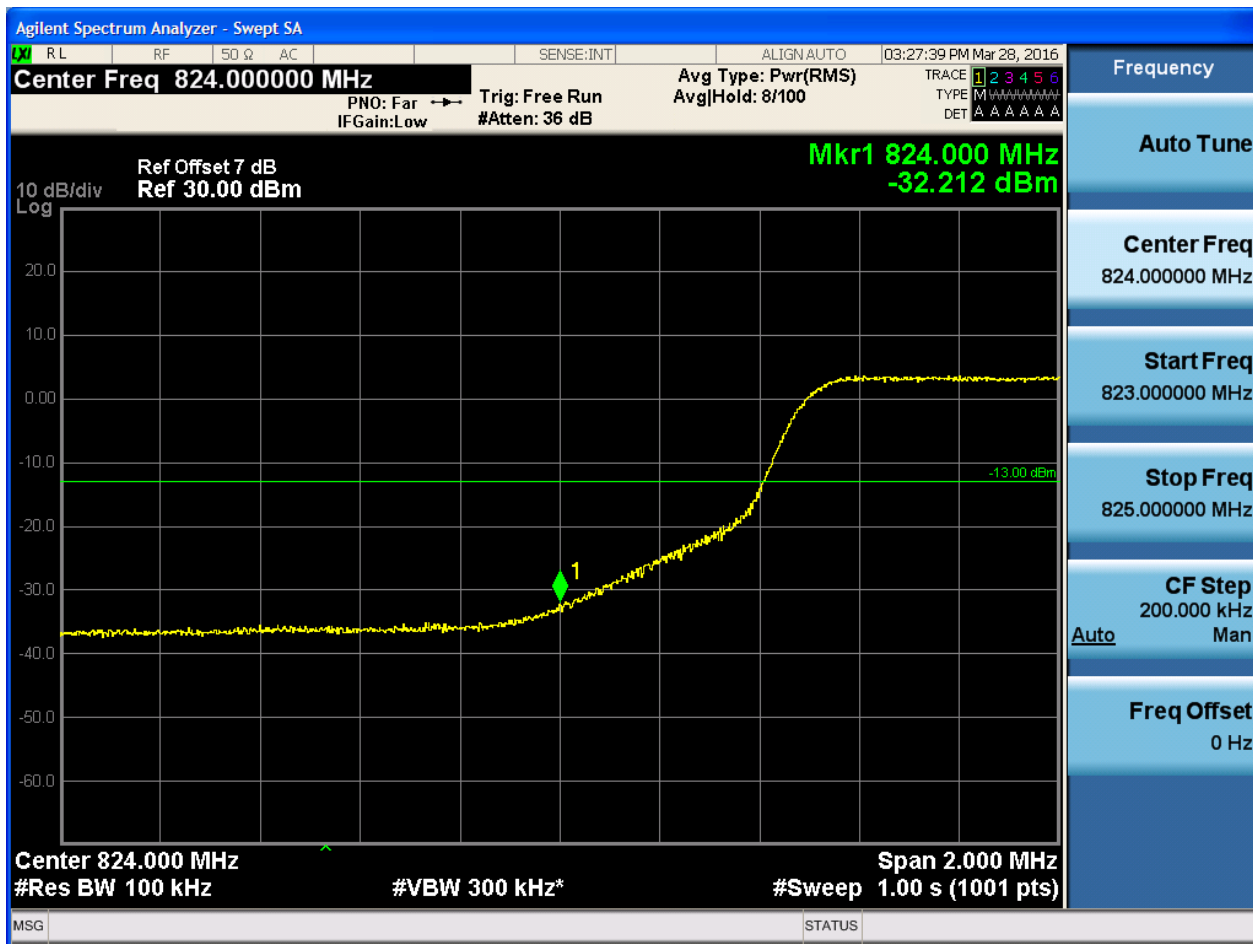


5.1.1.2.4.1.3 Test RB = RB25#13





5.1.1.2.4.1.4 Test RB = RB50#0





5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-23.986 dBm

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



5.1.1.2.4.2.3 Test RB = RB25#13





5.1.1.2.4.2.4 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

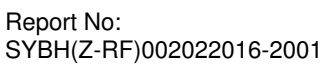
6.1.1 Test Band = BAND5

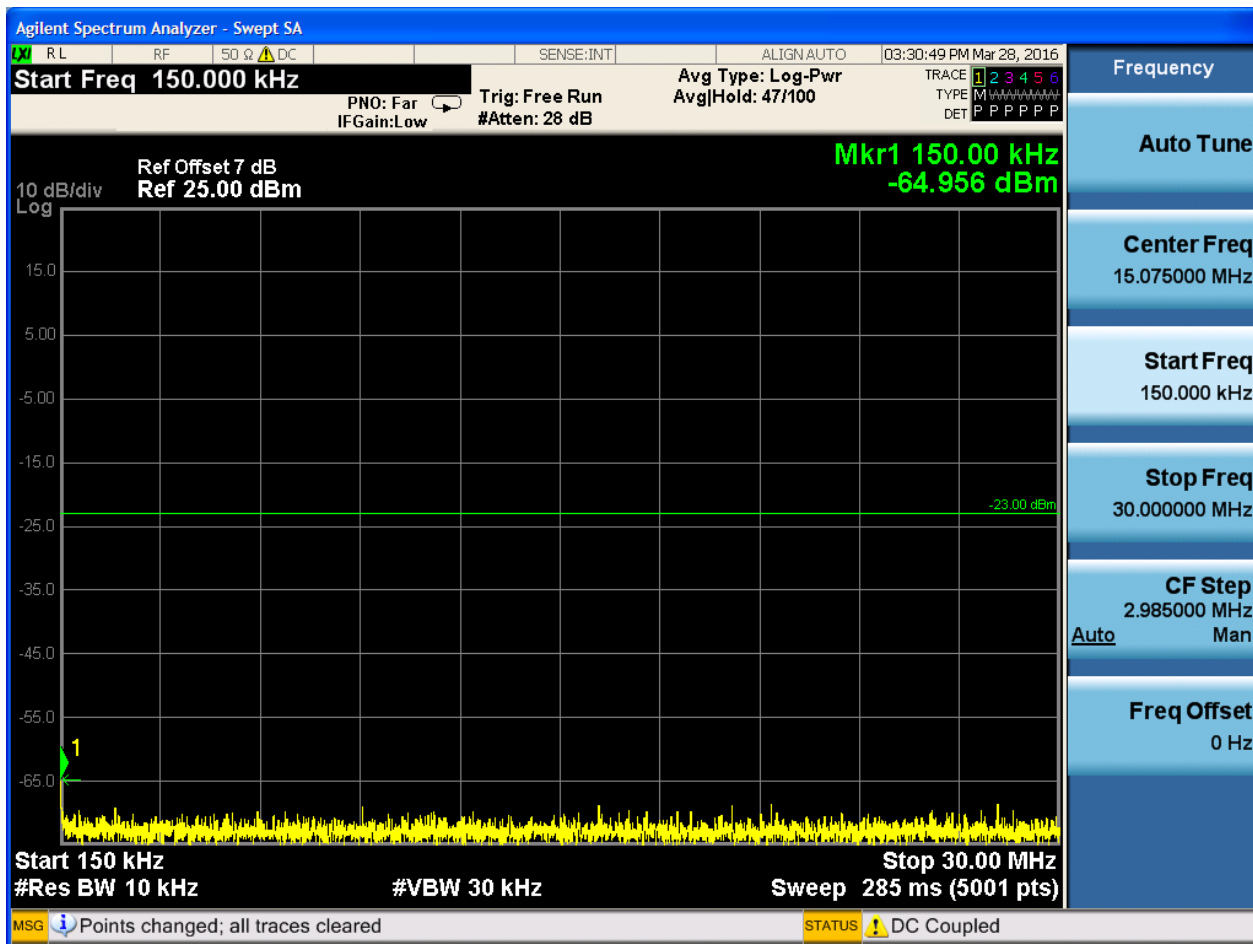
6.1.1.1 Test Mode = LTE/TM1

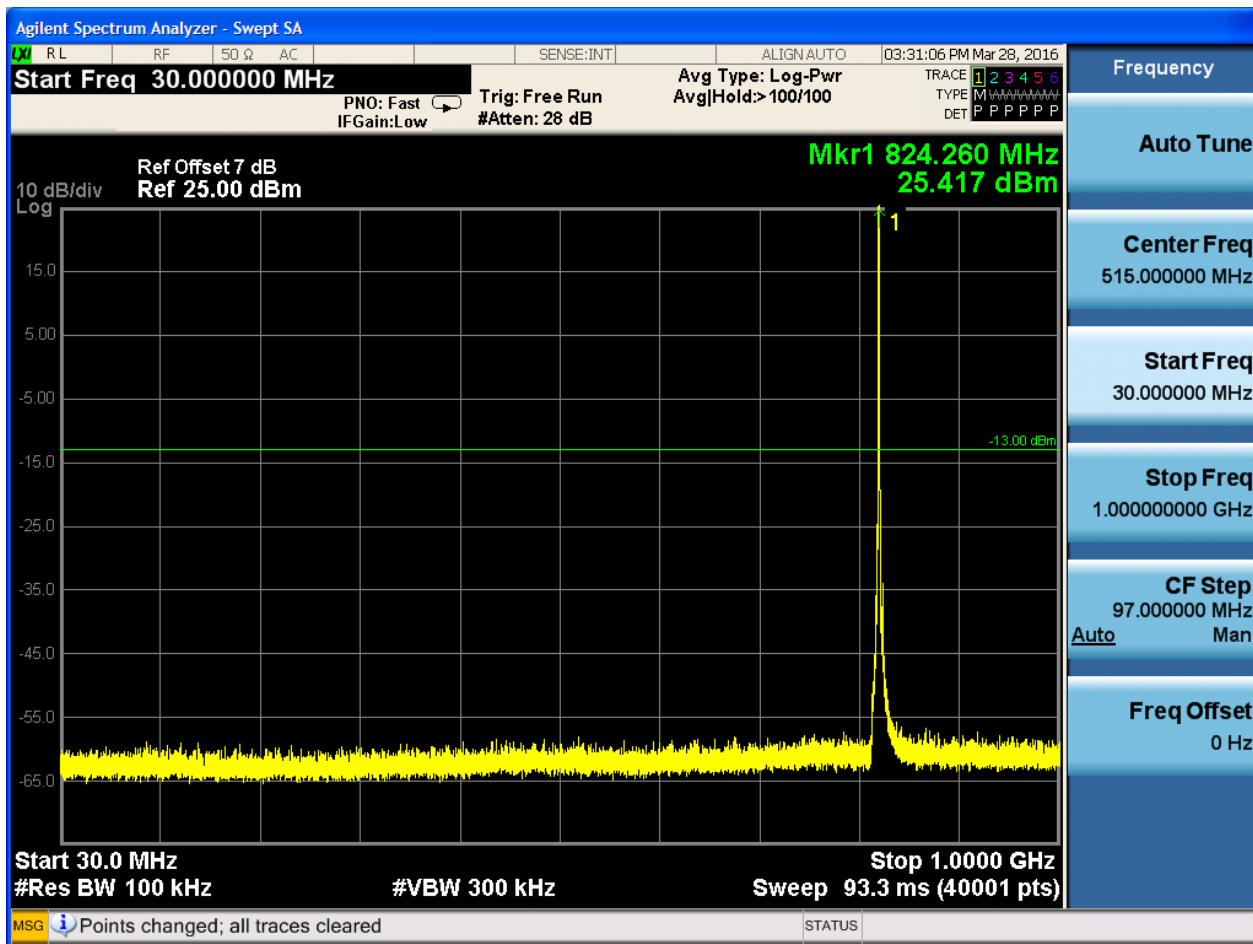
6.1.1.1.1 Test Bandwidth = 1.4

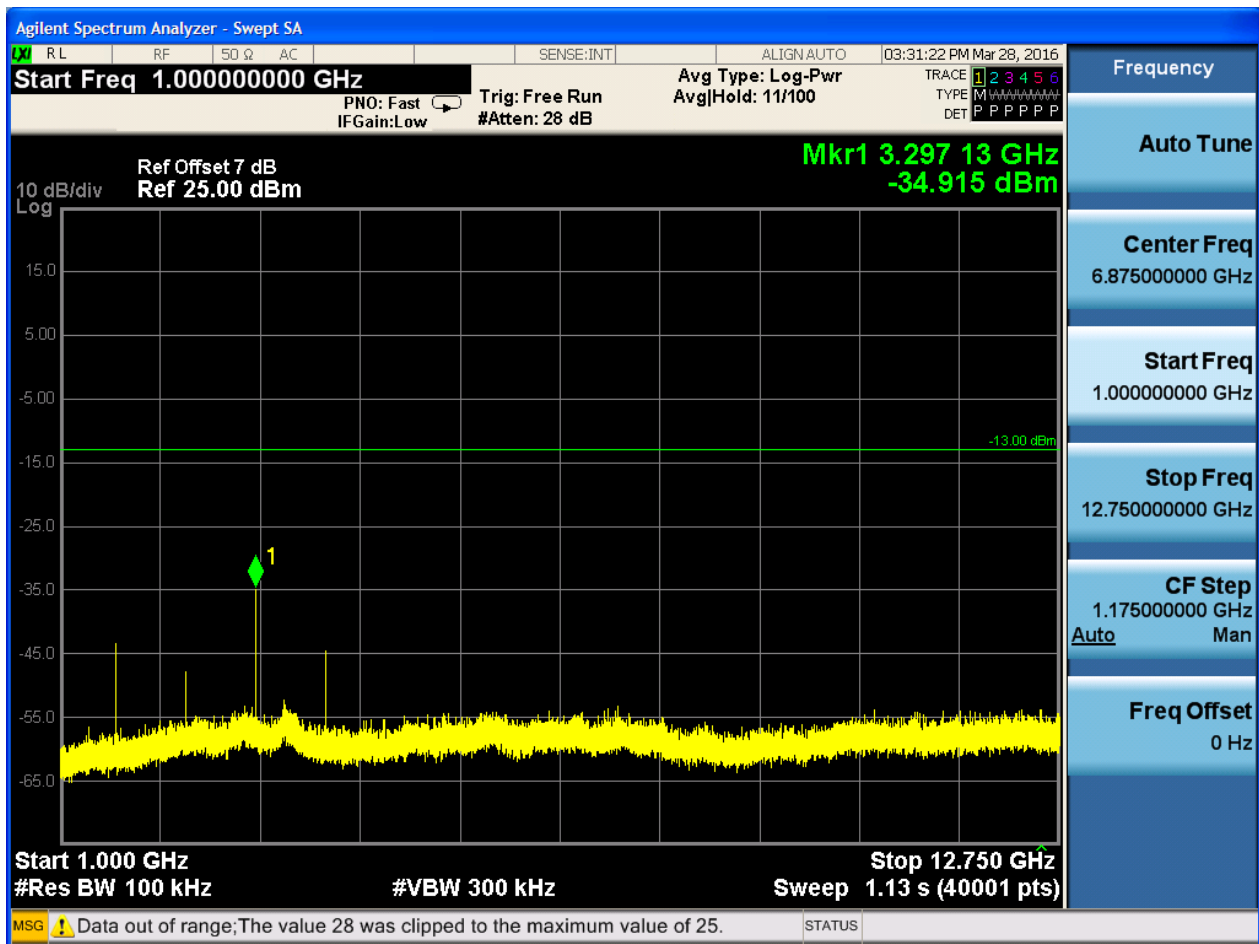
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





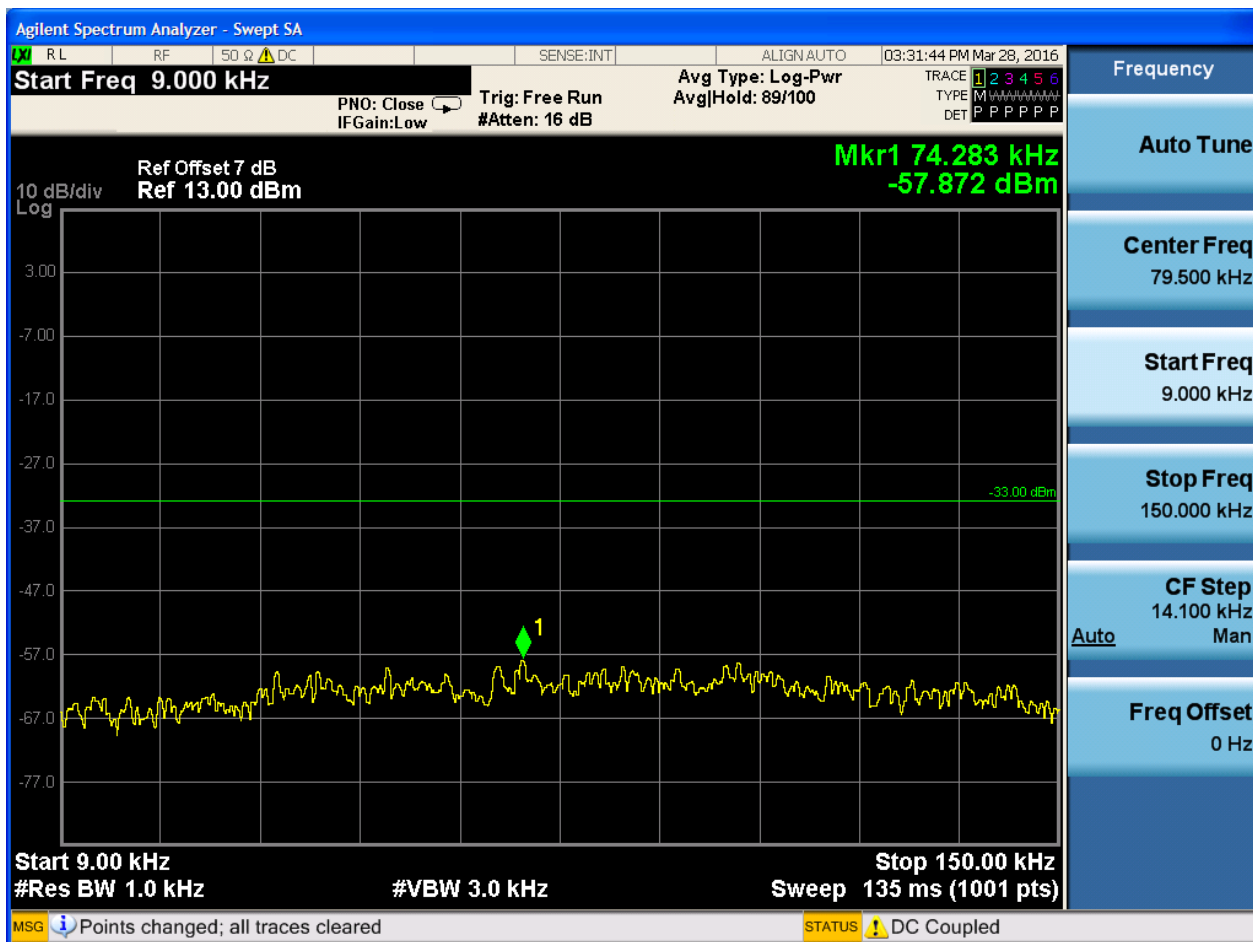




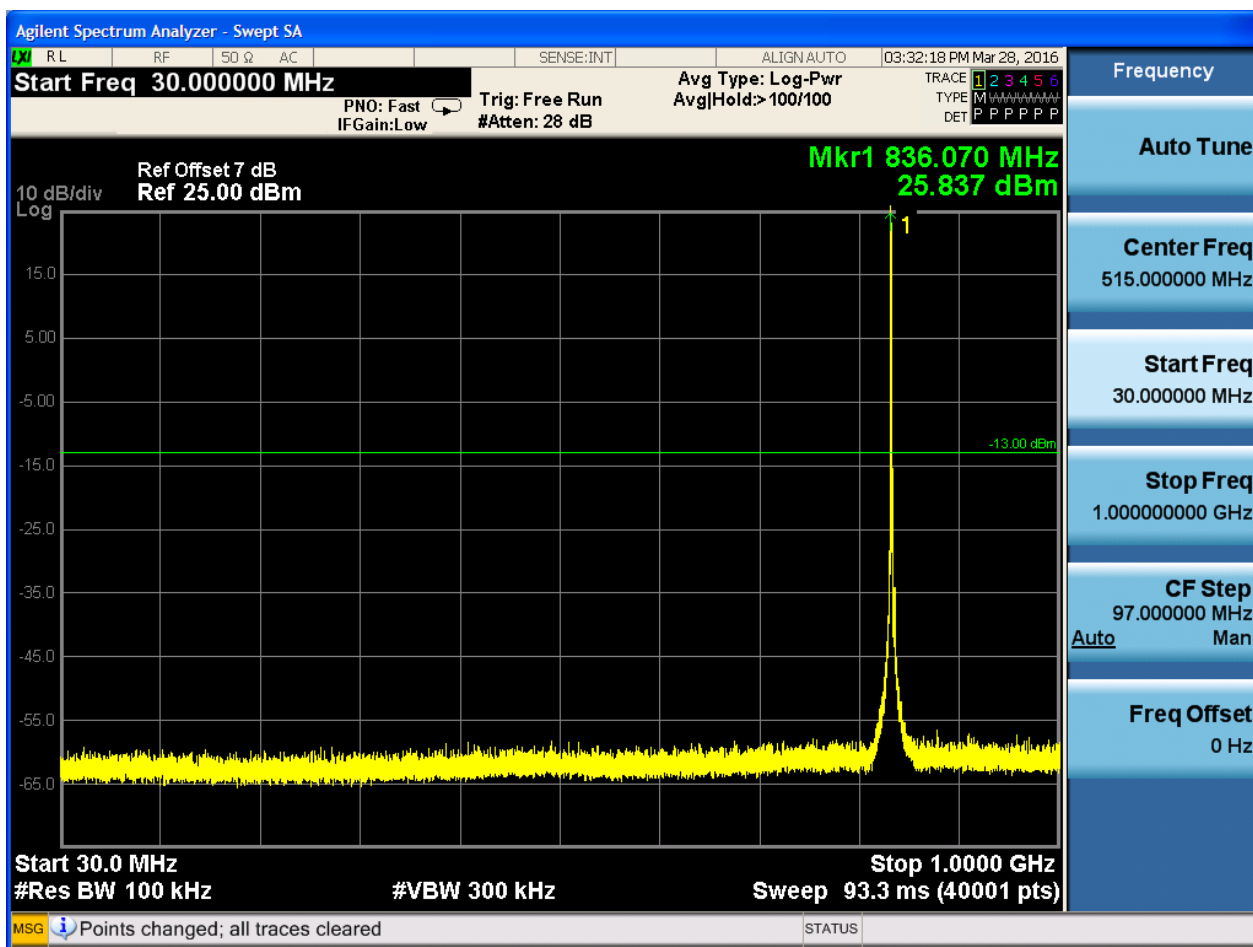


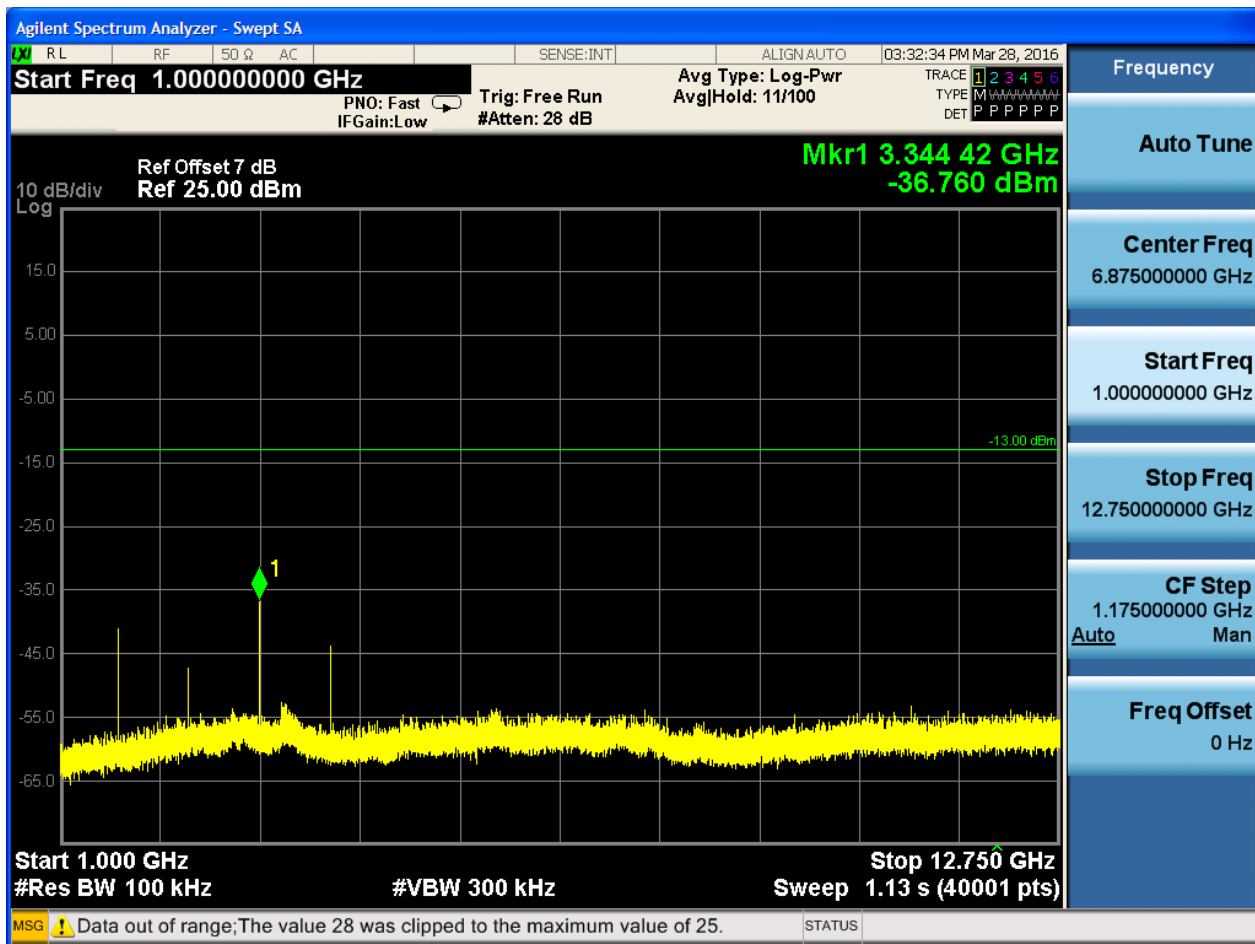
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





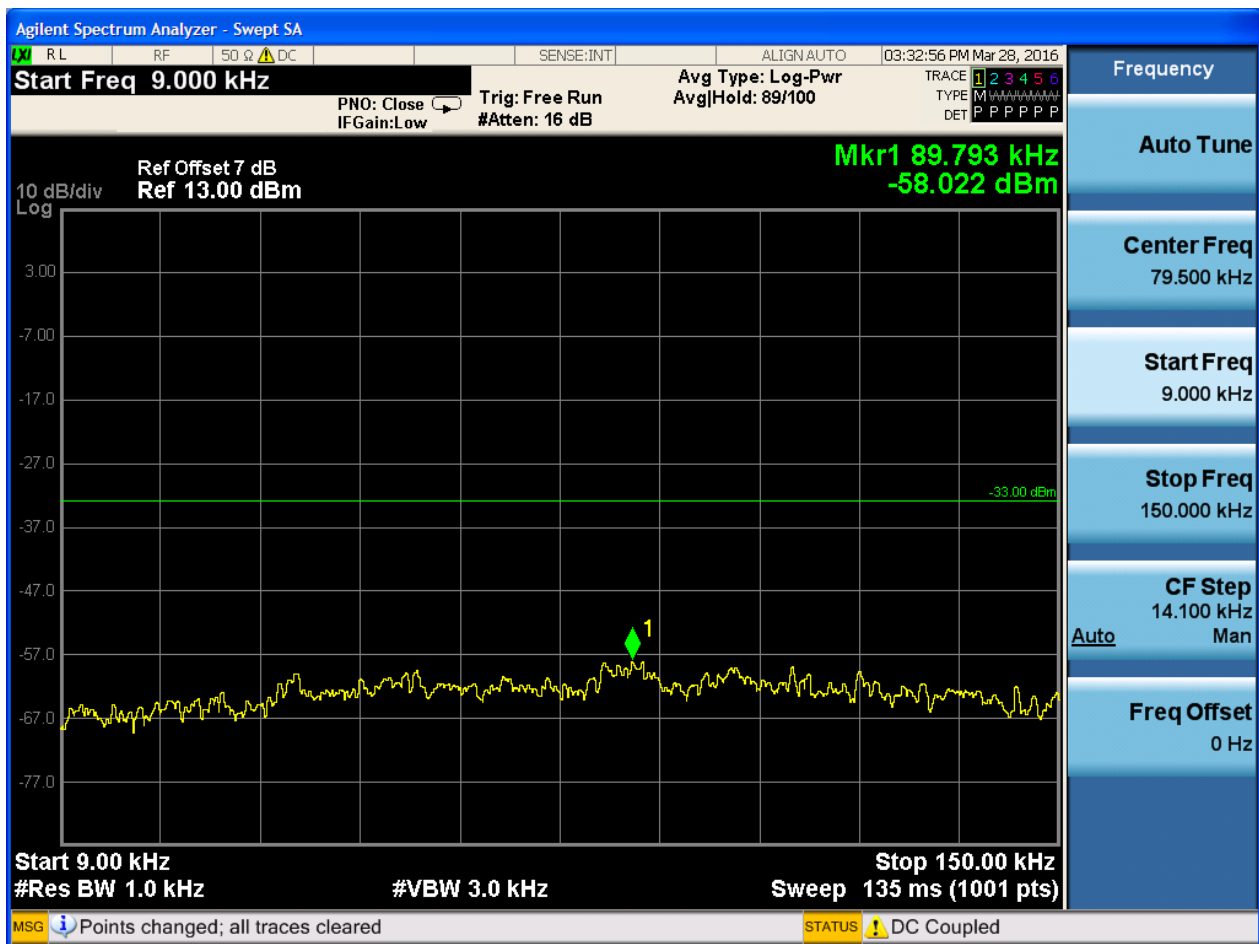


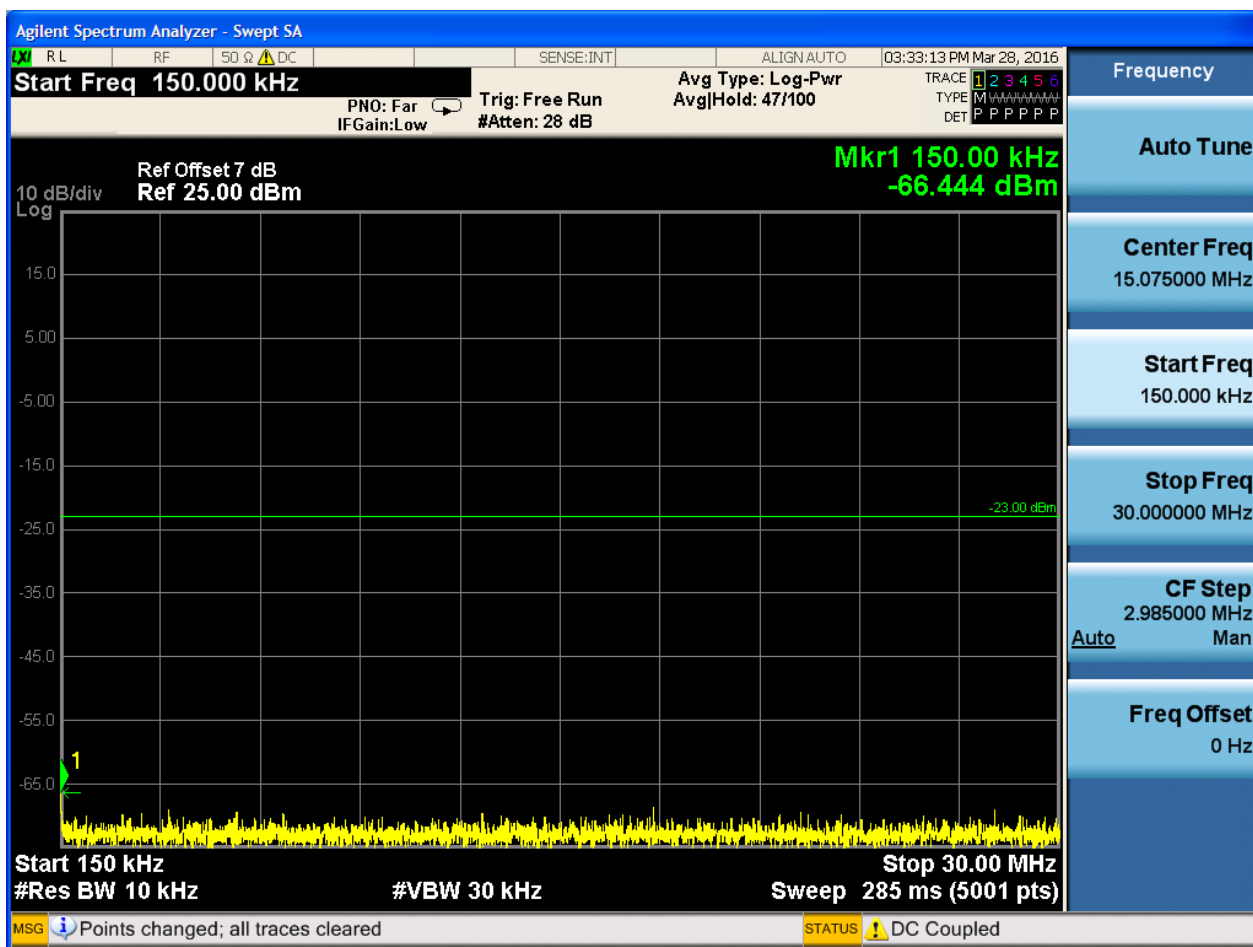


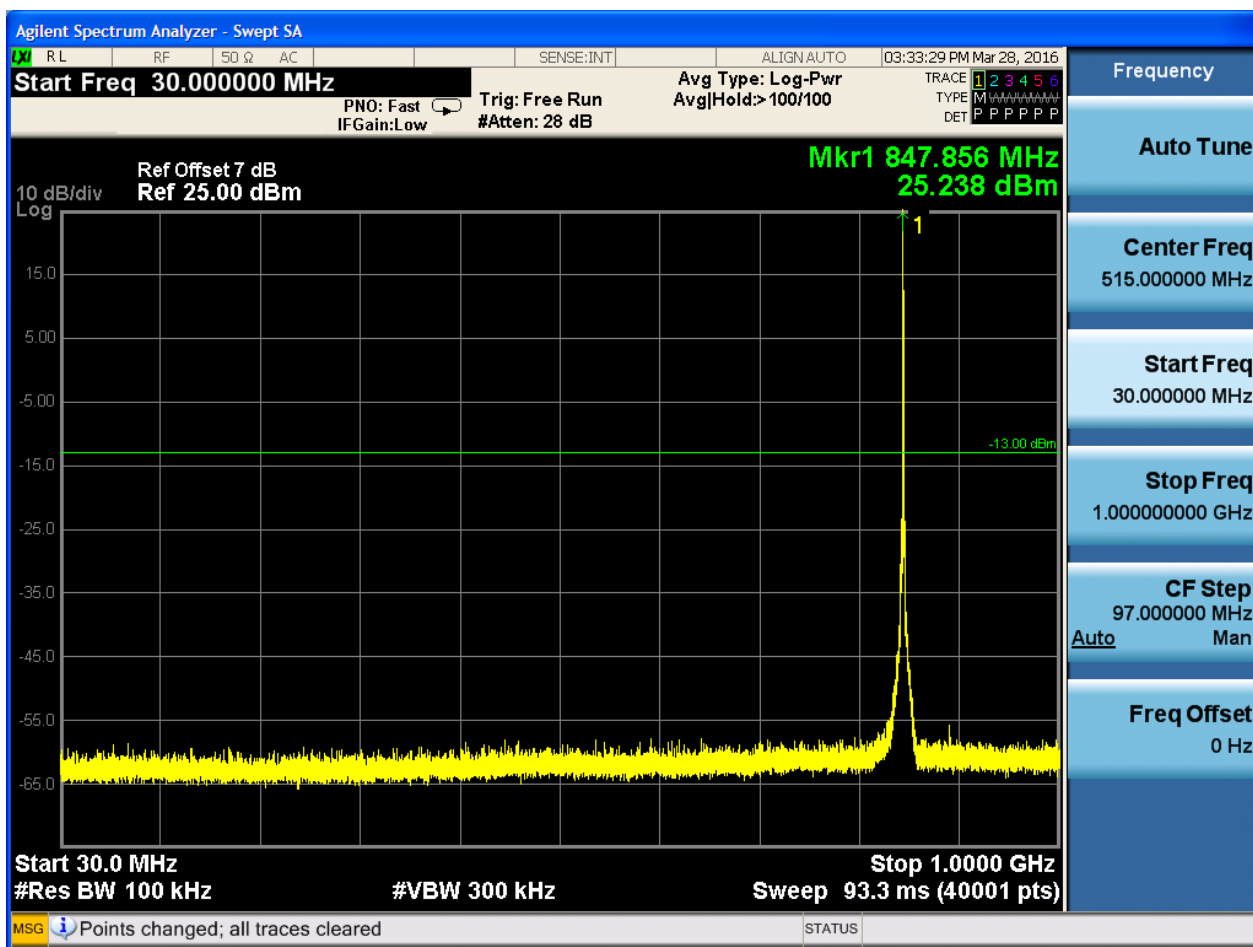


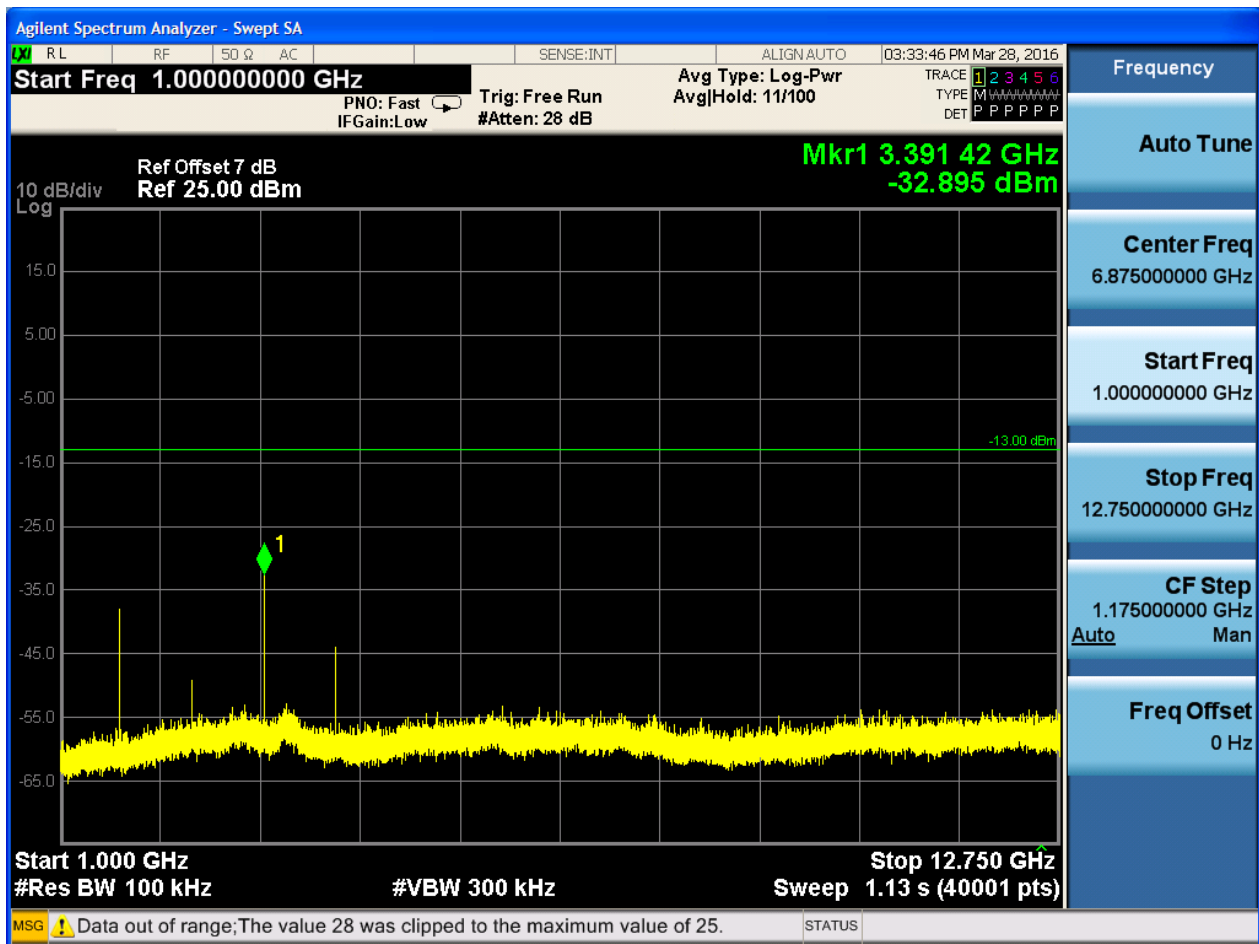
6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0











6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

