



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
BAND26	LTE/TM1	1.4	LCH	RB1#0	22.8	19.65	50	PASS
				RB1#3	22.79	19.64	50	PASS
				RB1#5	22.8	19.65	50	PASS
				RB3#0	22.54	19.39	50	PASS
				RB3#2	22.56	19.41	50	PASS
				RB3#3	22.61	19.46	50	PASS
			RB6#0	21.67	18.52	50	PASS	
			MCH	RB1#0	22.76	19.61	50	PASS
				RB1#3	22.71	19.56	50	PASS
				RB1#5	22.78	19.63	50	PASS
				RB3#0	22.55	19.4	50	PASS
				RB3#2	22.6	19.45	50	PASS
RB3#3	22.64	19.49		50	PASS			

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB6#0	21.59	18.44	50	PASS
			HCH	RB1#0	22.67	19.52	50	PASS
				RB1#3	22.65	19.5	50	PASS
				RB1#5	22.6	19.45	50	PASS
				RB3#0	22.48	19.33	50	PASS
				RB3#2	22.49	19.34	50	PASS
				RB3#3	22.56	19.41	50	PASS
				RB6#0	21.58	18.43	50	PASS
		3		LCH	RB1#0	22.59	19.44	50
			RB1#7		22.71	19.56	50	PASS
			RB1#14		22.74	19.59	50	PASS
			RB8#0		21.69	18.54	50	PASS
			RB8#4		21.61	18.46	50	PASS
			RB8#7		21.65	18.5	50	PASS
			RB15#0		21.64	18.49	50	PASS
			MCH	RB1#0	22.68	19.53	50	PASS
				RB1#7	22.69	19.54	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict	
				RB1#14	22.83	19.68	50	PASS	
				RB8#0	21.7	18.55	50	PASS	
				RB8#4	21.66	18.51	50	PASS	
				RB8#7	21.68	18.53	50	PASS	
				RB15#0	21.65	18.5	50	PASS	
			HCH	RB1#0	22.67	19.52	50	PASS	
				RB1#7	22.63	19.48	50	PASS	
				RB1#14	22.68	19.53	50	PASS	
				RB8#0	21.62	18.47	50	PASS	
				RB8#4	21.59	18.44	50	PASS	
				RB8#7	21.57	18.42	50	PASS	
				RB15#0	21.61	18.46	50	PASS	
			5	LCH	RB1#0	22.78	19.63	50	PASS
					RB1#13	22.79	19.64	50	PASS
		RB1#24			22.79	19.64	50	PASS	
		RB12#0			21.61	18.46	50	PASS	
		RB12#6			21.66	18.51	50	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict			
				RB12#13	21.68	18.53	50	PASS			
				RB25#0	21.72	18.57	50	PASS			
			MCH	RB1#0	22.71	19.56	50	PASS			
				RB1#13	22.77	19.62	50	PASS			
				RB1#24	22.67	19.52	50	PASS			
				RB12#0	21.66	18.51	50	PASS			
				RB12#6	21.65	18.5	50	PASS			
				RB12#13	21.63	18.48	50	PASS			
				RB25#0	21.71	18.56	50	PASS			
				HCH	RB1#0	22.78	19.63	50	PASS		
			RB1#13		22.75	19.6	50	PASS			
			RB1#24		22.74	19.59	50	PASS			
			RB12#0		21.61	18.46	50	PASS			
			RB12#6		21.62	18.47	50	PASS			
			RB12#13		21.5	18.35	50	PASS			
							RB25#0	21.61	18.46	50	PASS
					10	LCH/MCH	RB1#0	22.74	19.59	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			/HCH	RB1#25	22.61	19.46	50	PASS
				RB1#49	22.55	19.4	50	PASS
				RB25#0	21.71	18.56	50	PASS
				RB25#13	21.75	18.6	50	PASS
				RB25#25	21.55	18.4	50	PASS
				RB50#0	21.71	18.56	50	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.84	18.69	50	PASS
				RB1#3	21.89	18.74	50	PASS
				RB1#5	21.86	18.71	50	PASS
				RB3#0	21.81	18.66	50	PASS
				RB3#2	21.7	18.55	50	PASS
				RB3#3	21.81	18.66	50	PASS
				RB6#0	20.73	17.58	50	PASS
			MCH	RB1#0	21.94	18.79	50	PASS
				RB1#3	21.81	18.66	50	PASS
				RB1#5	21.92	18.77	50	PASS
RB3#0	21.76	18.61		50	PASS			

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB3#2	21.77	18.62	50	PASS
				RB3#3	21.87	18.72	50	PASS
				RB6#0	20.68	17.53	50	PASS
			HCH	RB1#0	21.85	18.7	50	PASS
				RB1#3	21.82	18.67	50	PASS
				RB1#5	21.9	18.75	50	PASS
				RB3#0	21.72	18.57	50	PASS
				RB3#2	21.65	18.5	50	PASS
				RB3#3	21.74	18.59	50	PASS
		RB6#0	20.67	17.52	50	PASS		
		3	LCH	RB1#0	22.16	19.01	50	PASS
				RB1#7	22.1	18.95	50	PASS
				RB1#14	22.02	18.87	50	PASS
				RB8#0	20.75	17.6	50	PASS
				RB8#4	20.68	17.53	50	PASS
RB8#7	20.77			17.62	50	PASS		
				RB15#0	20.7	17.55	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.16	19.01	50	PASS
				RB1#7	22.08	18.93	50	PASS
				RB1#14	22.06	18.91	50	PASS
				RB8#0	20.73	17.58	50	PASS
				RB8#4	20.73	17.58	50	PASS
				RB8#7	20.73	17.58	50	PASS
				RB15#0	20.69	17.54	50	PASS
			HCH	RB1#0	22.16	19.01	50	PASS
				RB1#7	22	18.85	50	PASS
				RB1#14	22.1	18.95	50	PASS
				RB8#0	20.71	17.56	50	PASS
				RB8#4	20.67	17.52	50	PASS
				RB8#7	20.67	17.52	50	PASS
				RB15#0	20.62	17.47	50	PASS
		5	LCH	RB1#0	21.93	18.78	50	PASS
				RB1#13	21.88	18.73	50	PASS
				RB1#24	21.86	18.71	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB12#0	20.58	17.43	50	PASS
				RB12#6	20.7	17.55	50	PASS
				RB12#13	20.71	17.56	50	PASS
				RB25#0	20.65	17.5	50	PASS
			MCH	RB1#0	22	18.85	50	PASS
				RB1#13	21.87	18.72	50	PASS
				RB1#24	21.82	18.67	50	PASS
				RB12#0	20.64	17.49	50	PASS
				RB12#6	20.64	17.49	50	PASS
				RB12#13	20.64	17.49	50	PASS
				RB25#0	20.6	17.45	50	PASS
				HCH	RB1#0	21.99	18.84	50
			RB1#13		21.91	18.76	50	PASS
			RB1#24		21.84	18.69	50	PASS
			RB12#0		20.66	17.51	50	PASS
			RB12#6		20.6	17.45	50	PASS
			RB12#13		20.52	17.37	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.54	17.39	50	PASS
		10	LCH/MCH /HCH	RB1#0	22.15	19	50	PASS
				RB1#25	22.03	18.88	50	PASS
				RB1#49	21.97	18.82	50	PASS
				RB25#0	20.69	17.54	50	PASS
				RB25#13	20.69	17.54	50	PASS
				RB25#25	20.59	17.44	50	PASS
				RB50#0	20.66	17.51	50	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

Void

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

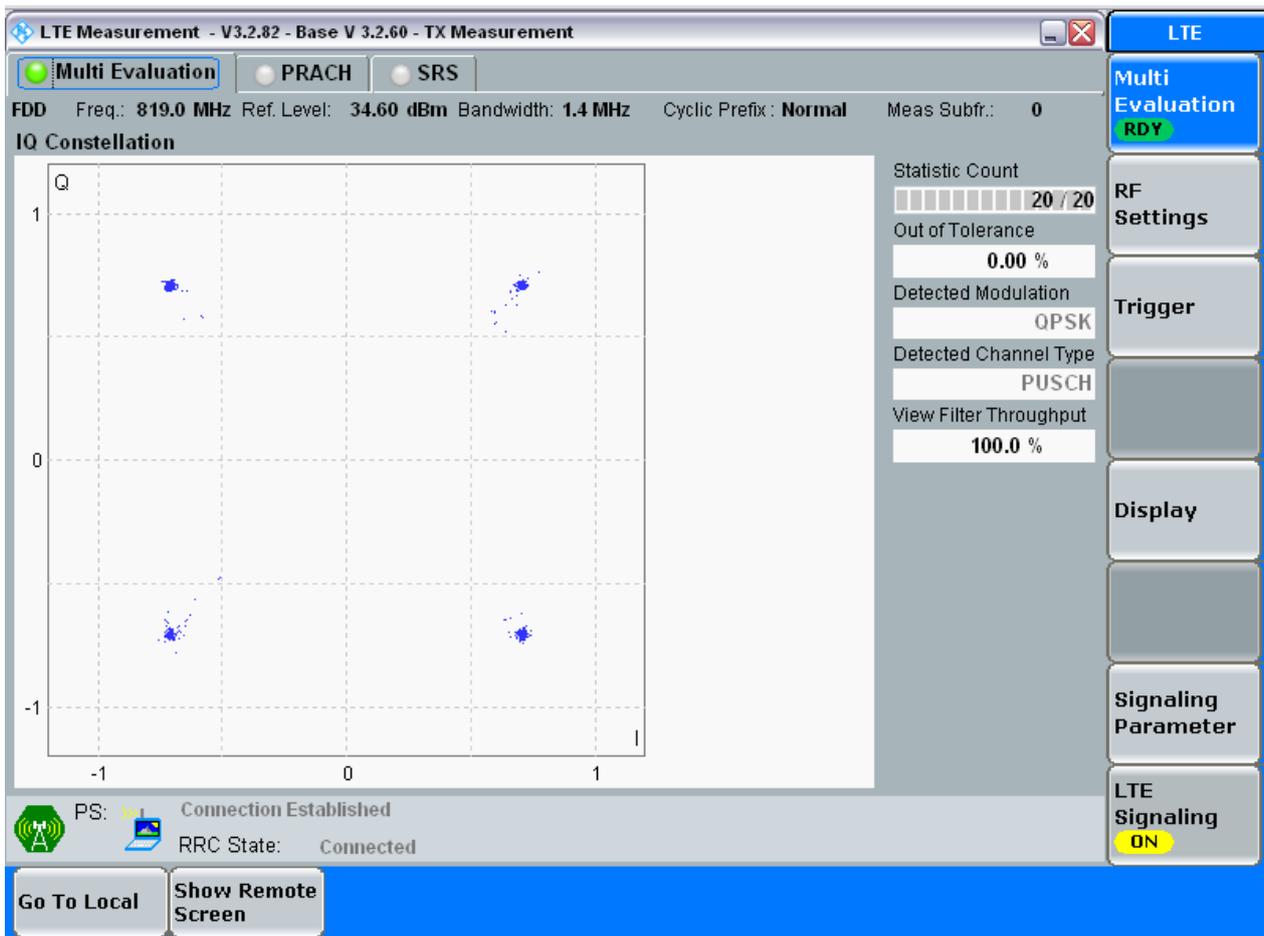
3.1.1 Test Band = BAND26

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

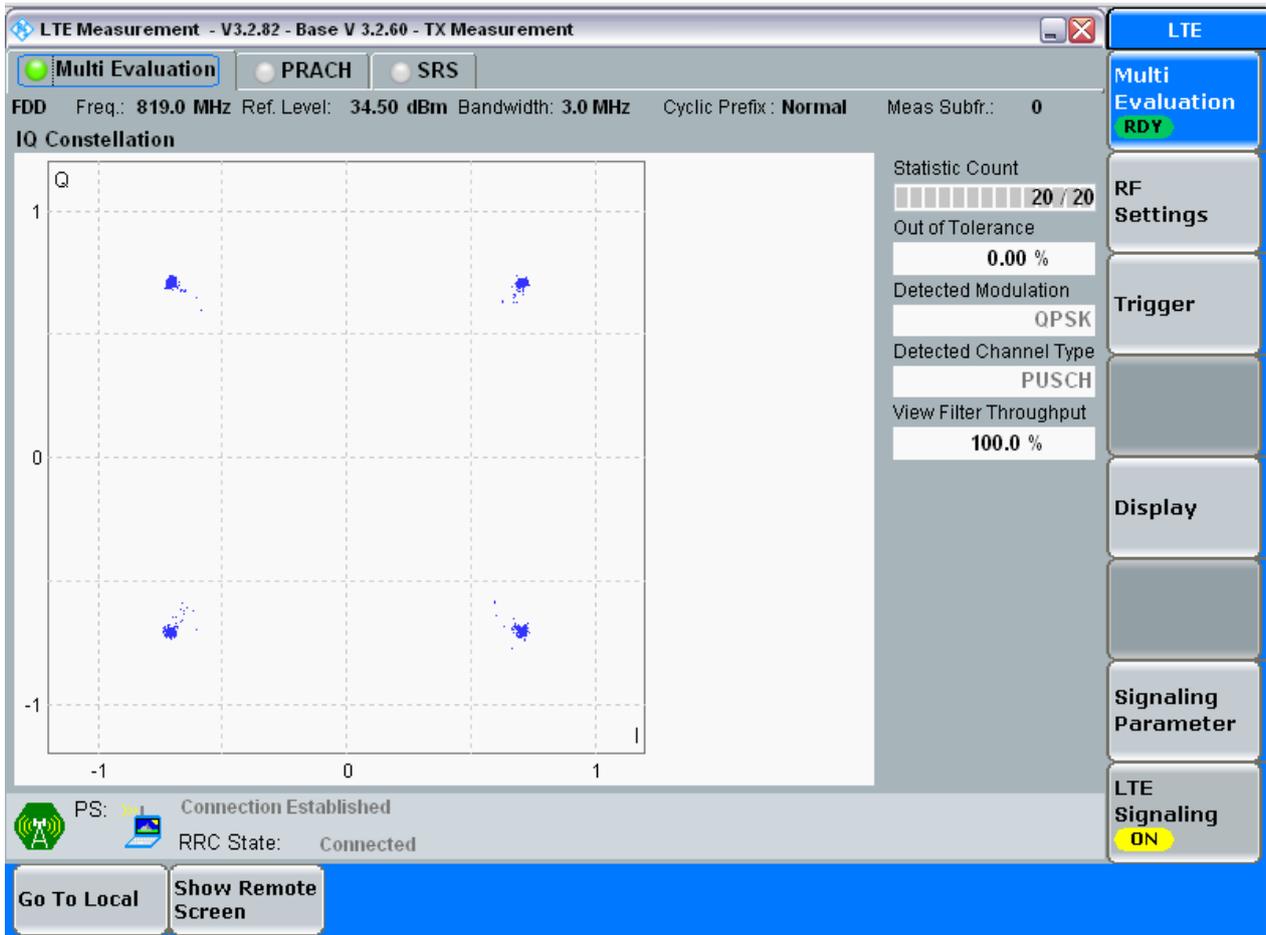
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

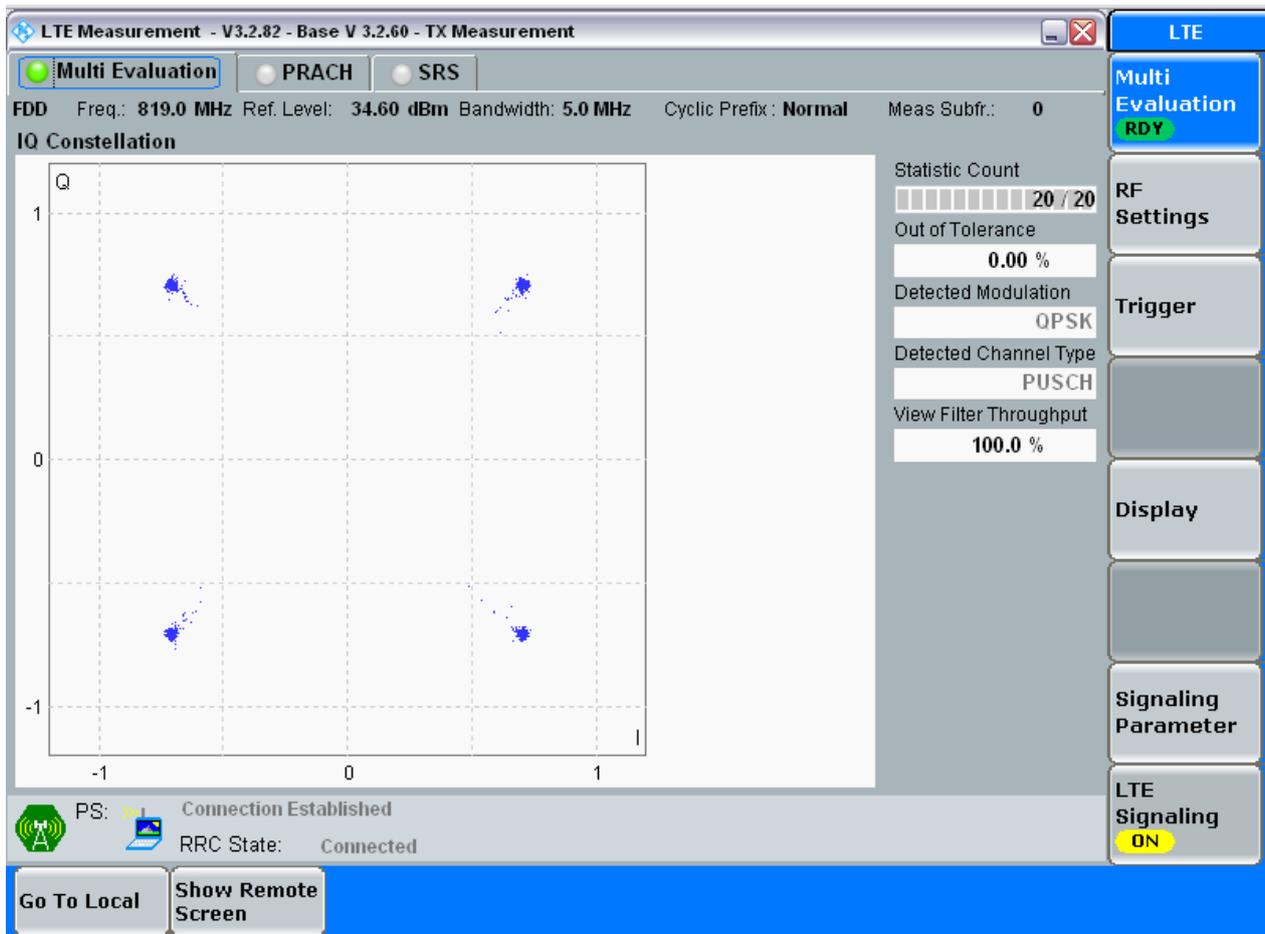
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

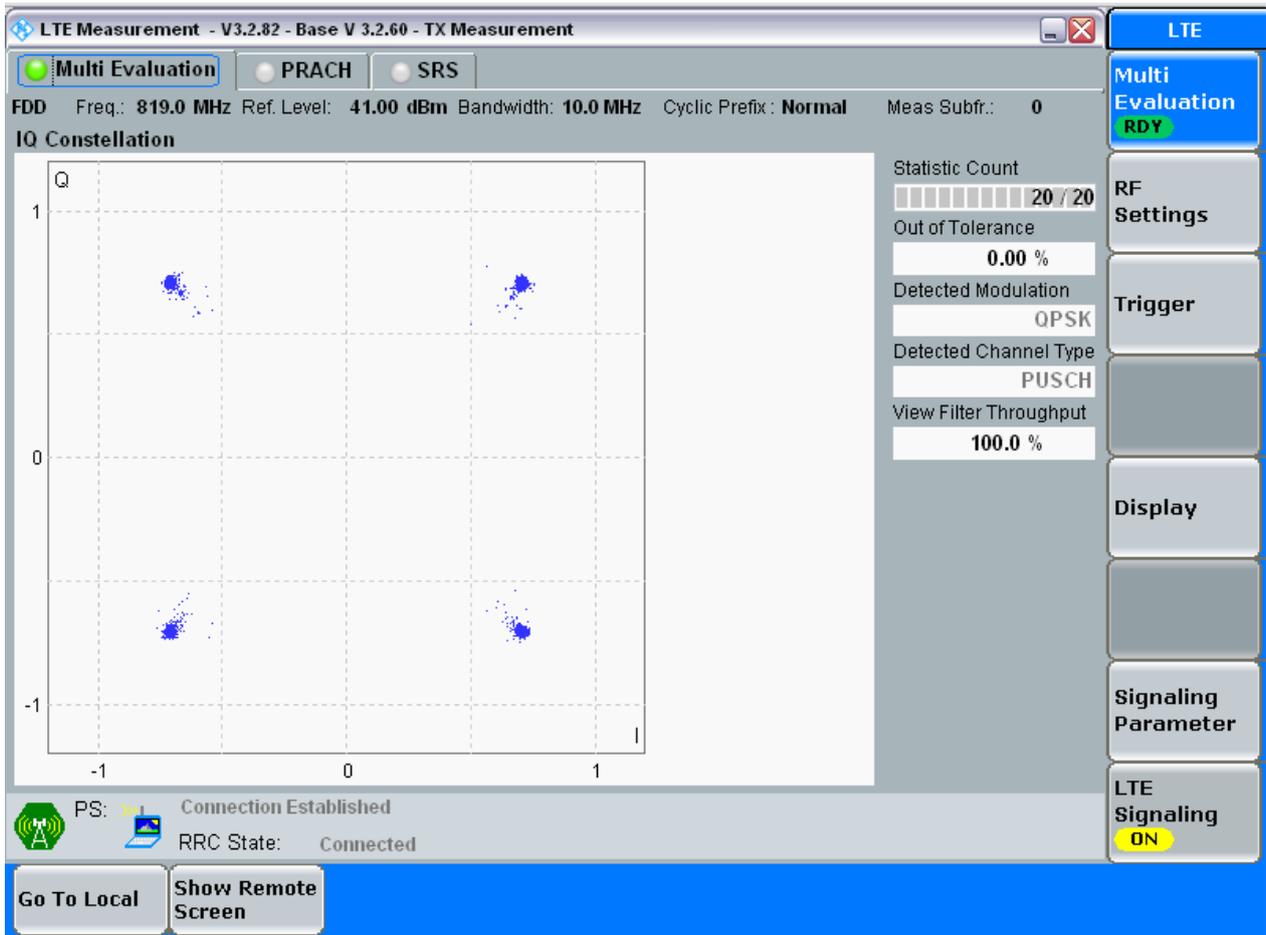
3.1.1.1.3.1.1 Test RB = RB25#0



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

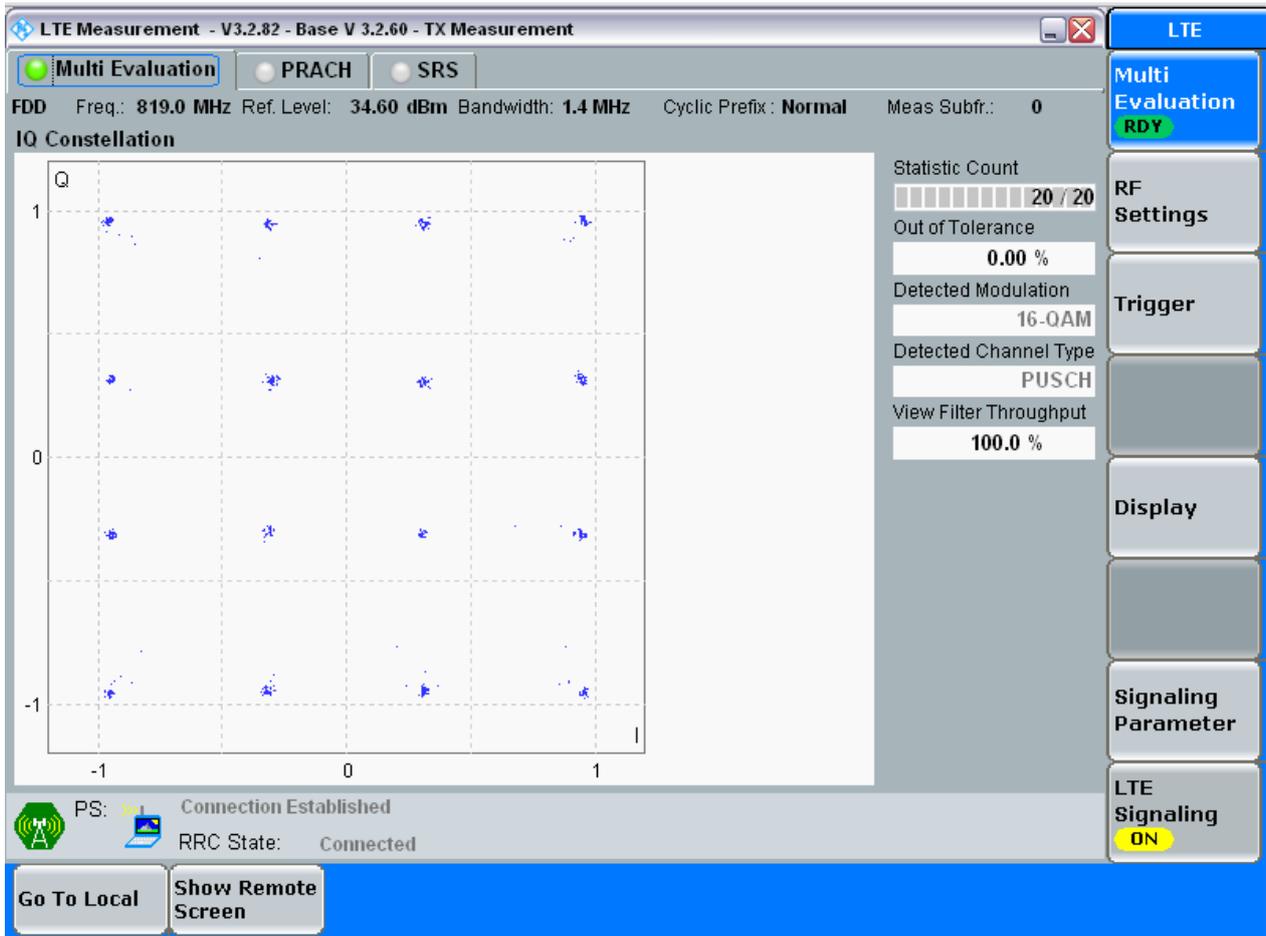


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

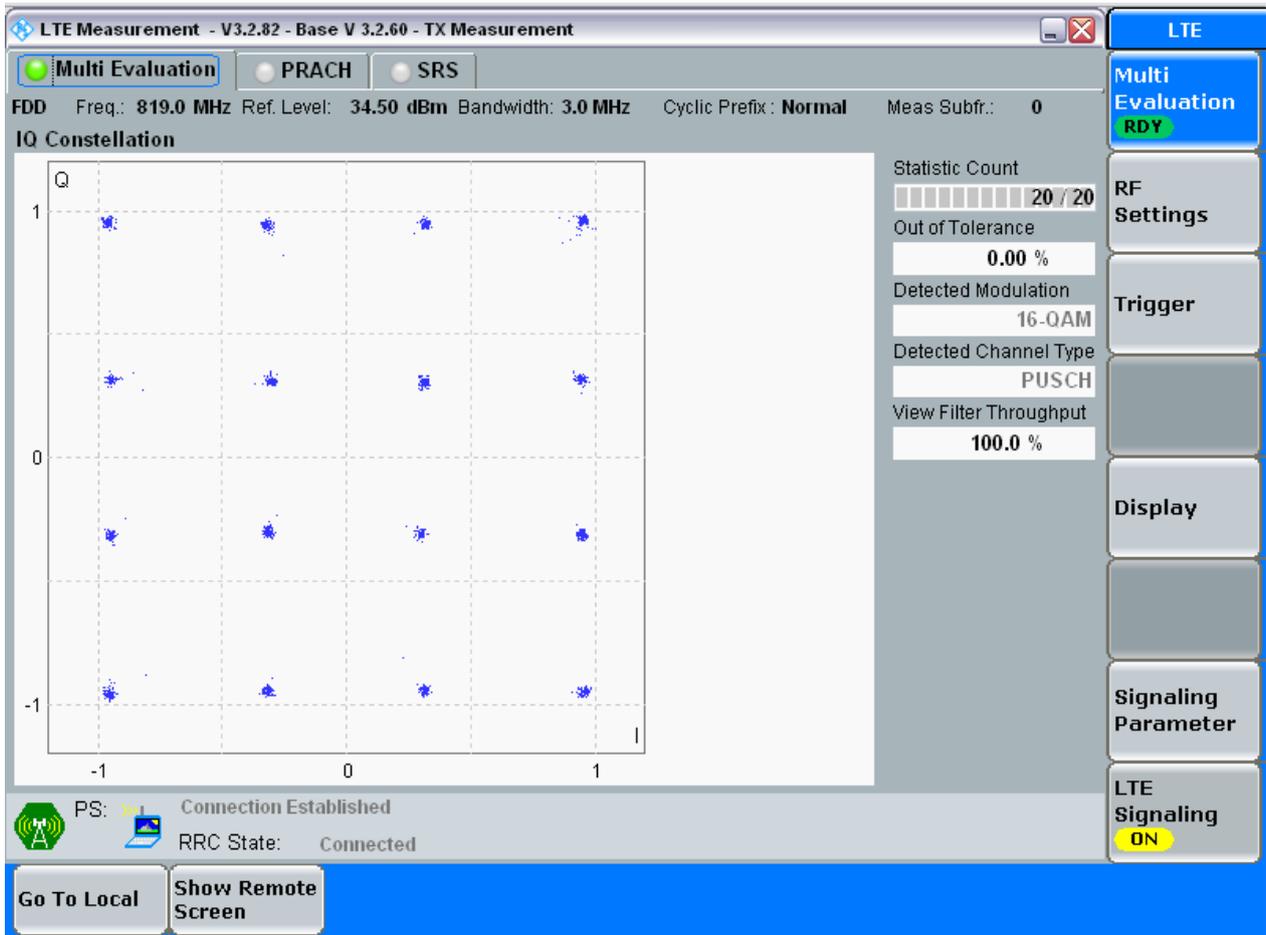
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

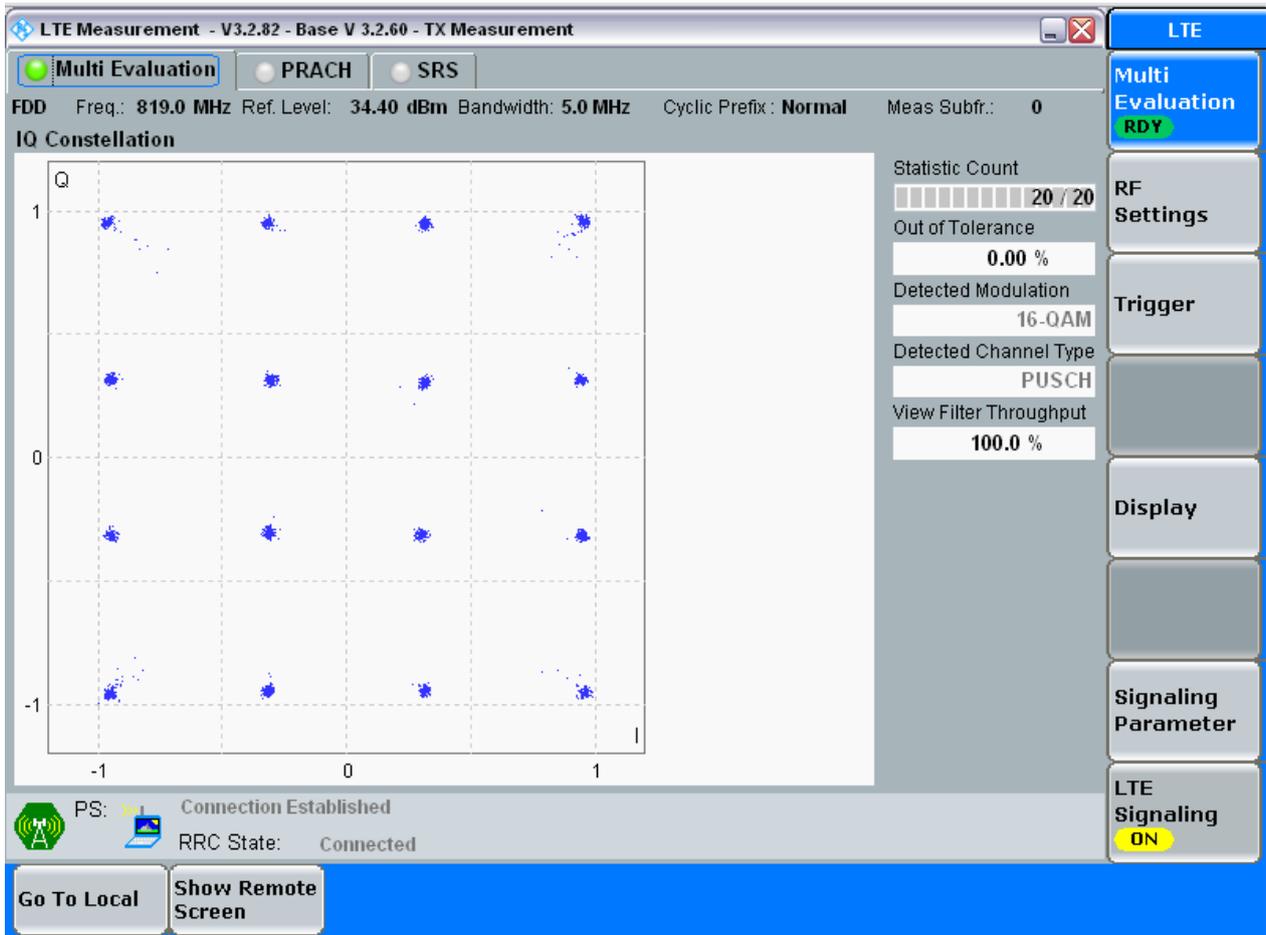
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

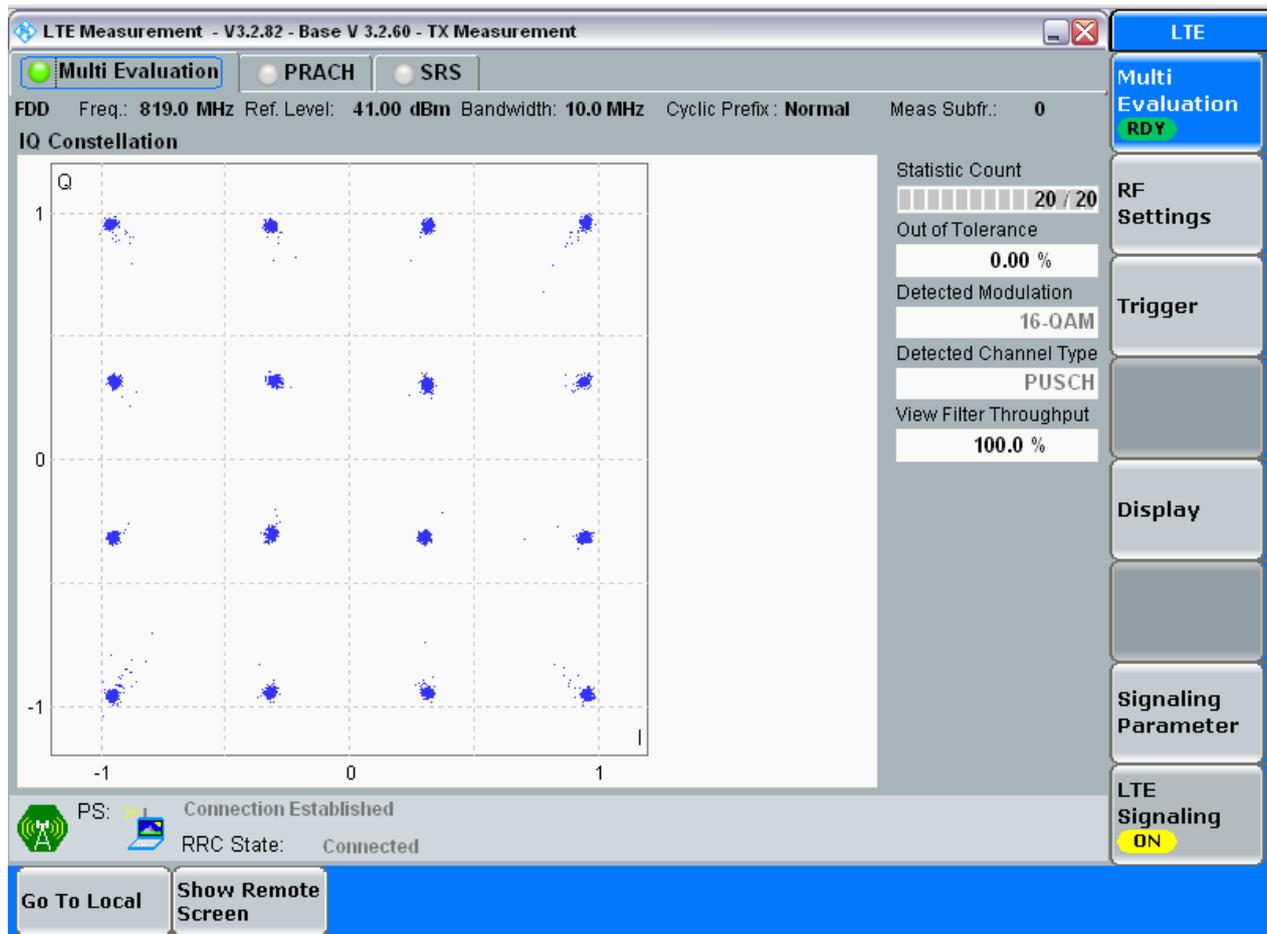
3.1.1.2.3.1.1 Test RB = RB25#0



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
BAND26	LTE/TM1	1.4	LCH	RB6#0	1.09	1.21	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.22	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.95	Pass
			HCH	RB15#0	2.70	2.95	Pass
		5	LCH	RB25#0	4.50	4.89	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.97	9.57	Pass
			MCH	RB50#0	8.98	9.55	Pass
			HCH	RB50#0	8.97	9.57	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.22	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.22	Pass
		3	LCH	RB15#0	2.70	2.93	Pass
			MCH	RB15#0	2.70	2.95	Pass
			HCH	RB15#0	2.70	2.95	Pass
		5	LCH	RB25#0	4.51	4.85	Pass
			MCH	RB25#0	4.50	4.85	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.97	9.53	Pass
			MCH	RB50#0	8.97	9.55	Pass
			HCH	RB50#0	8.97	9.56	Pass



Part II - Test Plots

4.1 For LTE

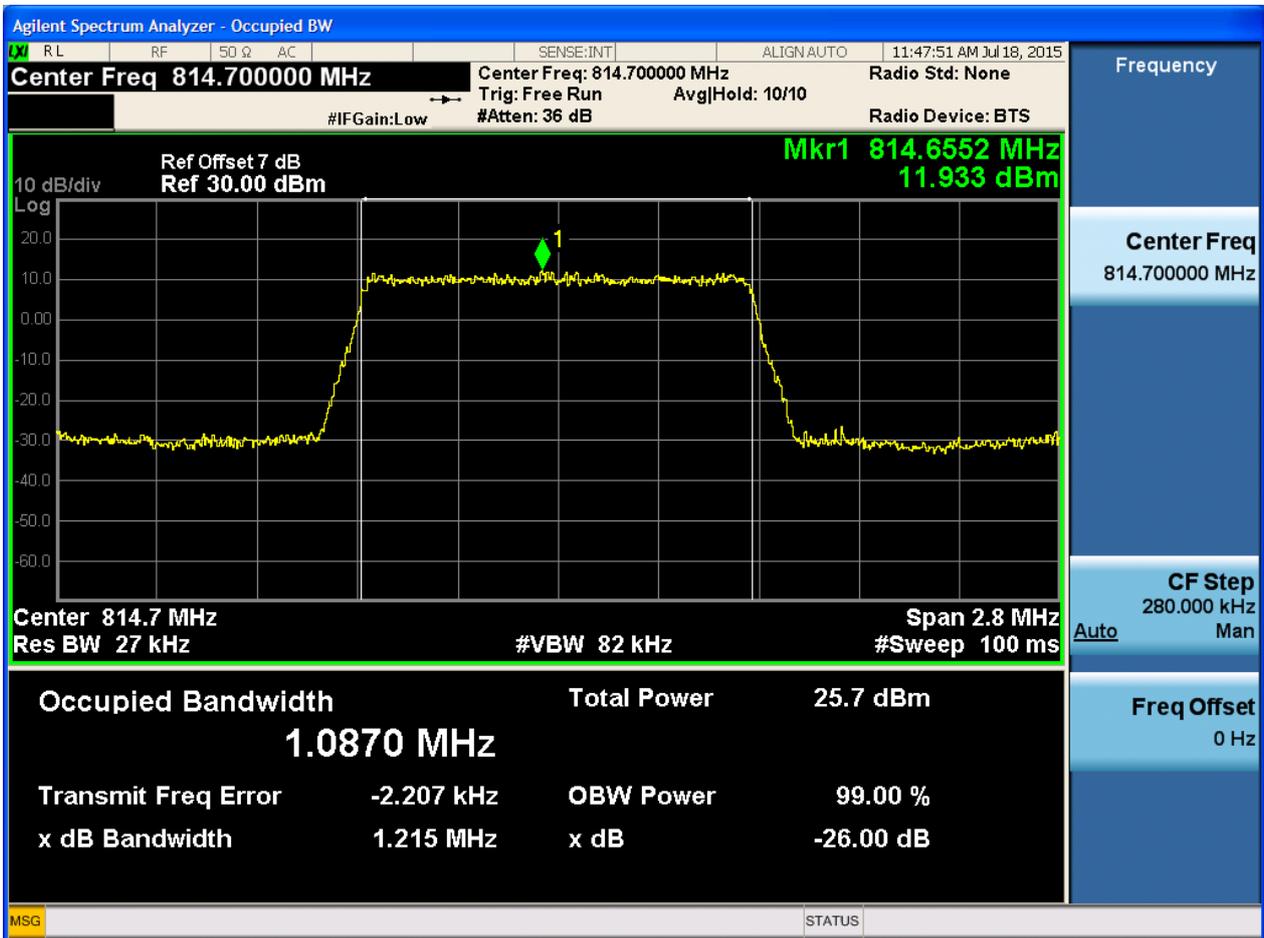
4.1.1 Test Band = BAND26

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

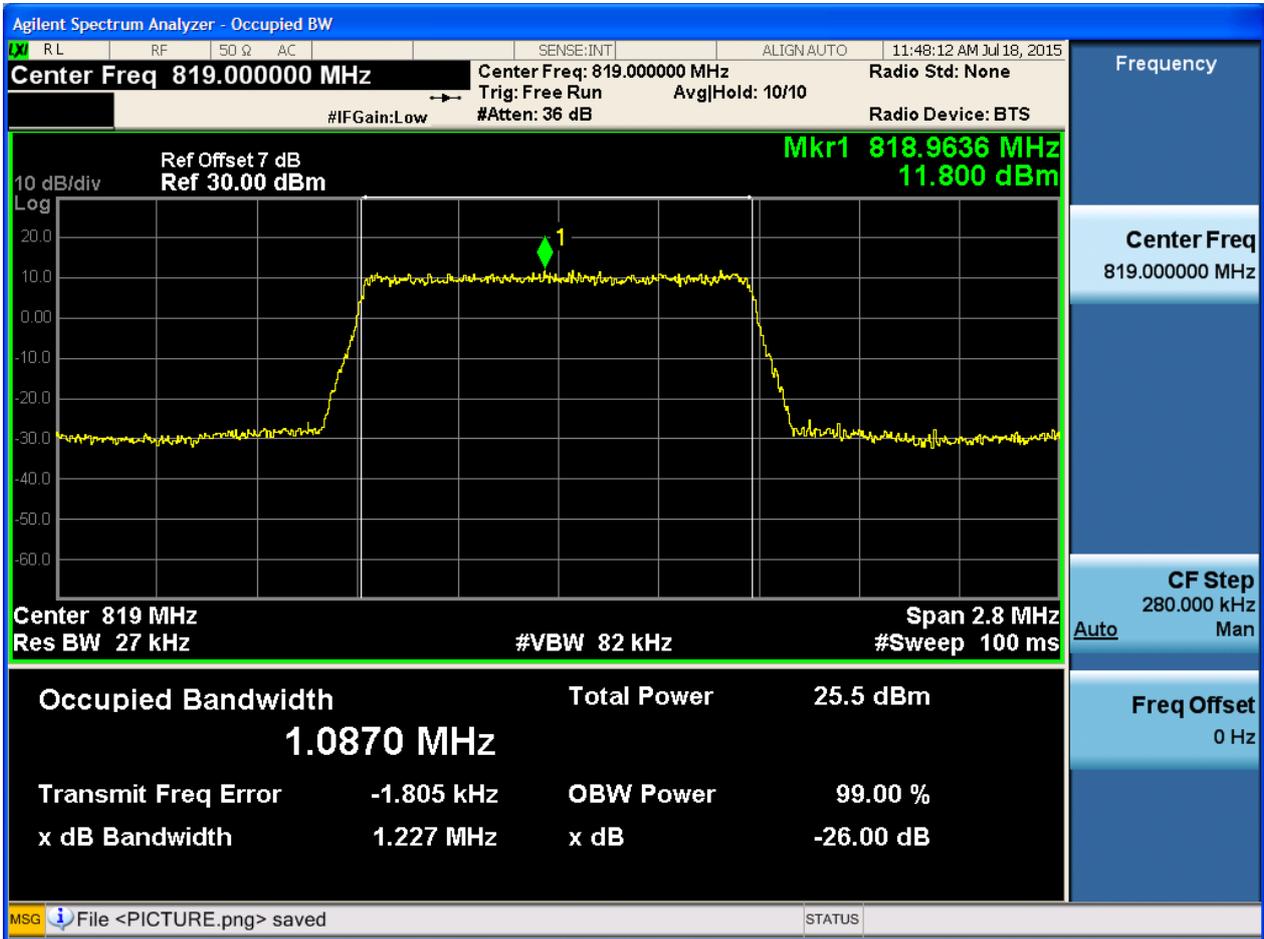
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

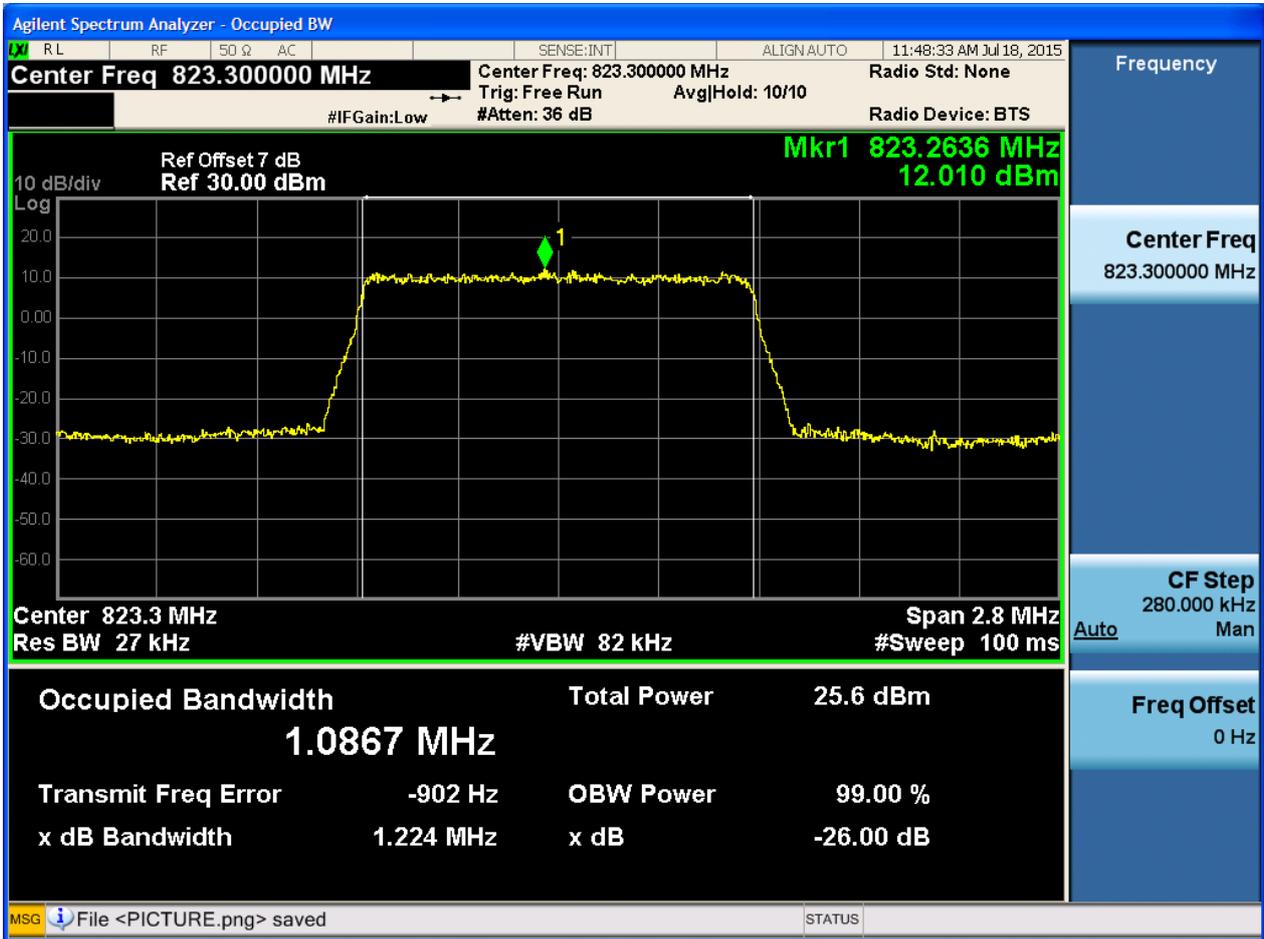
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

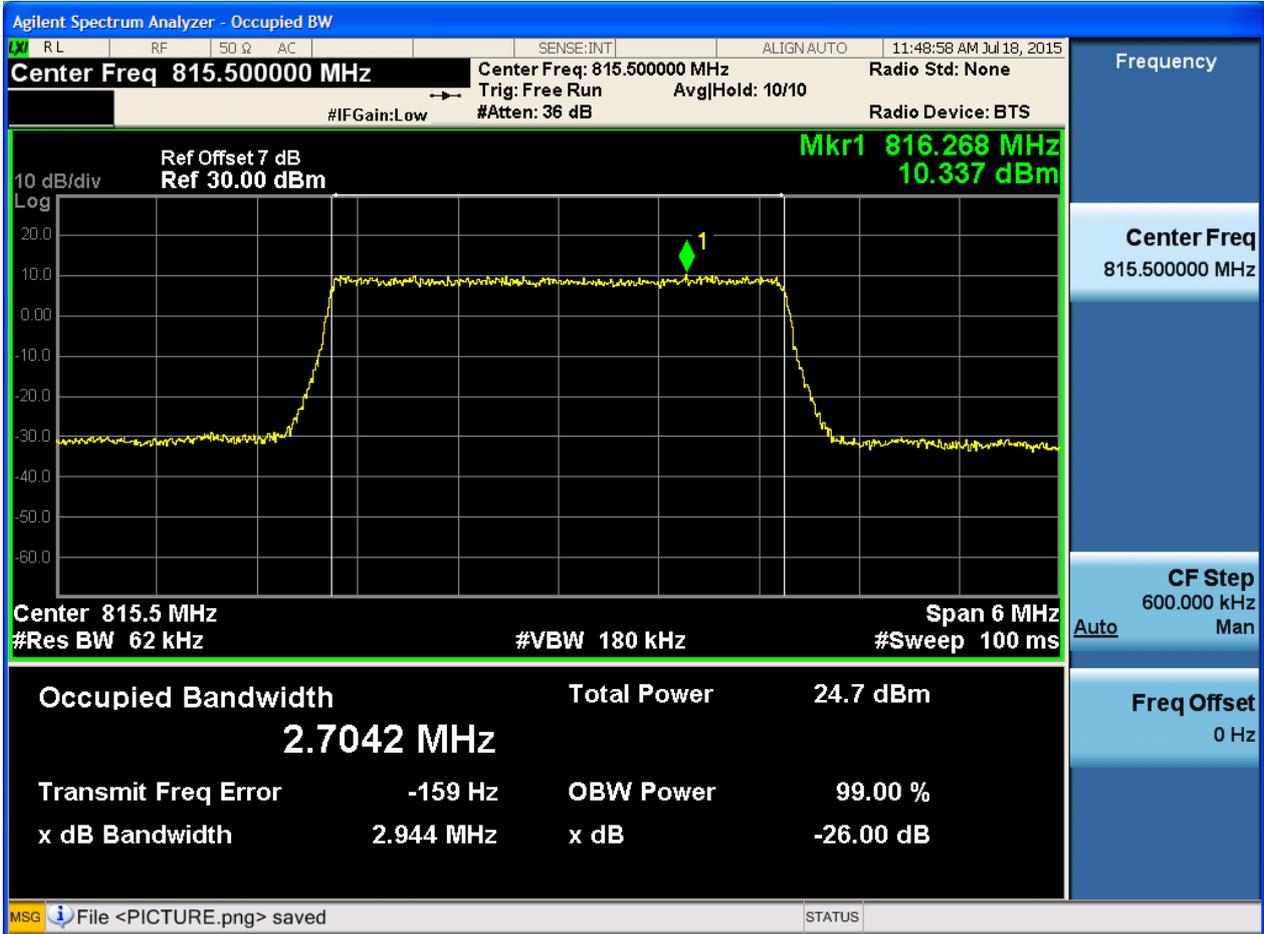




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

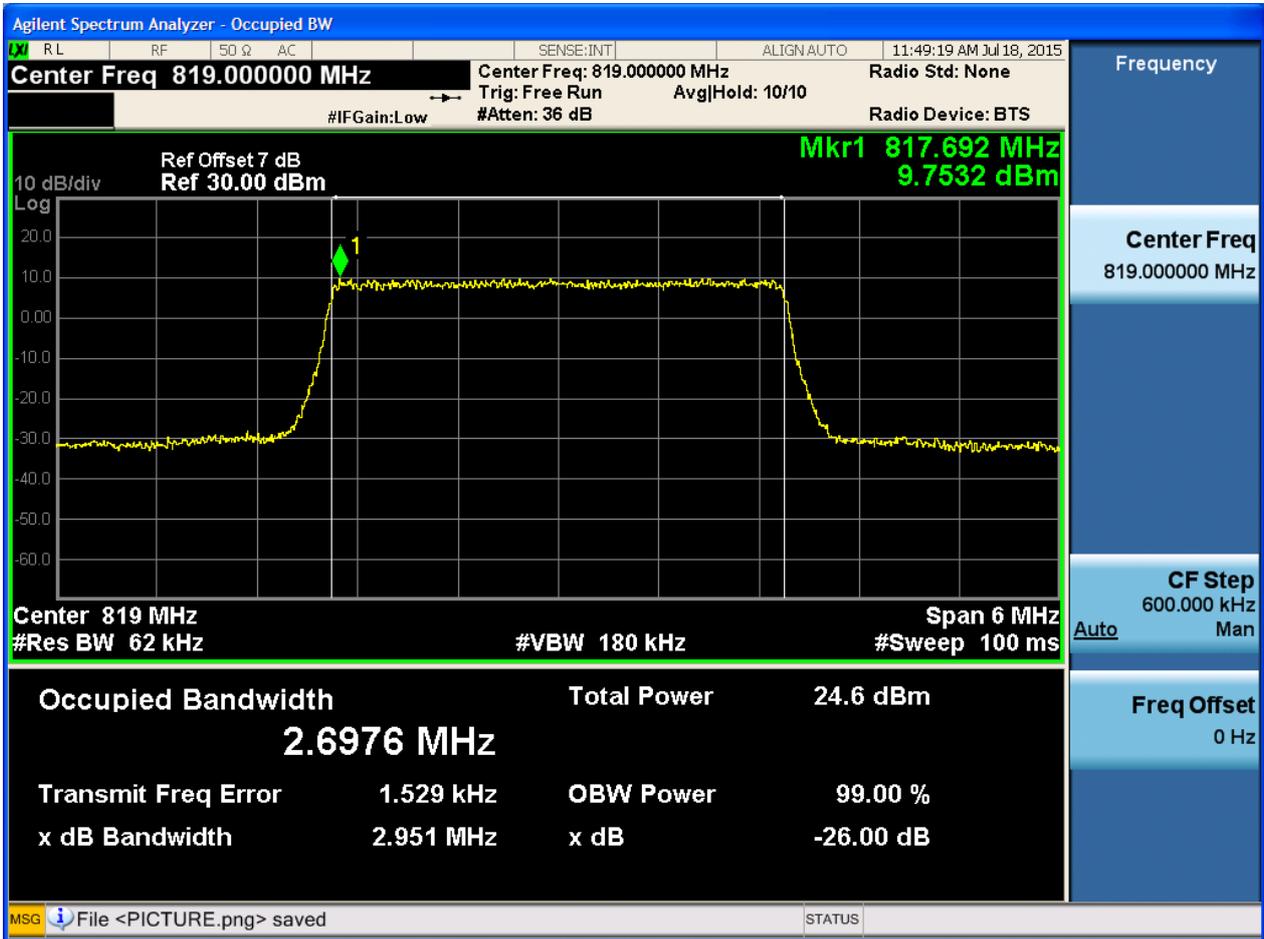
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

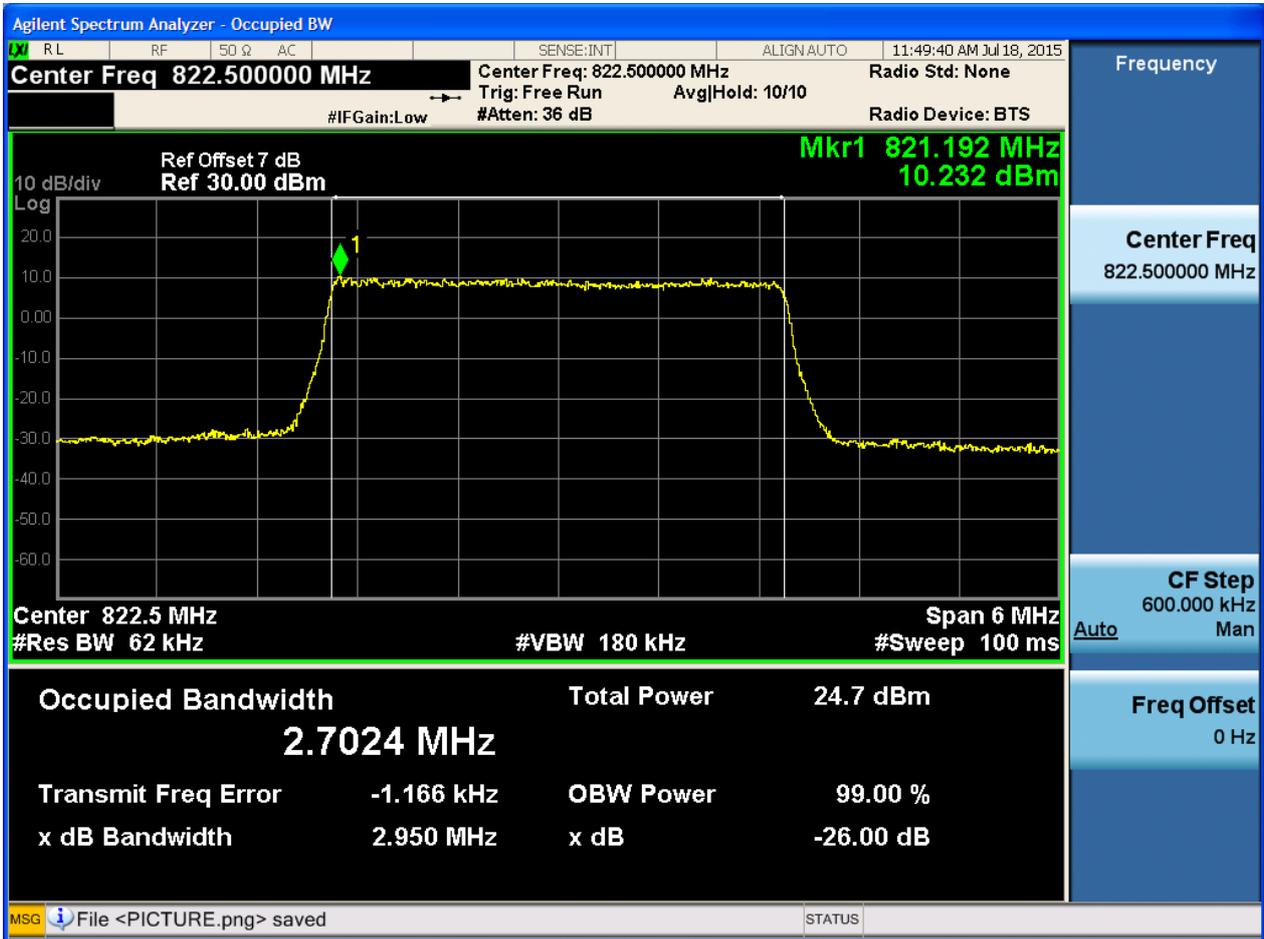
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

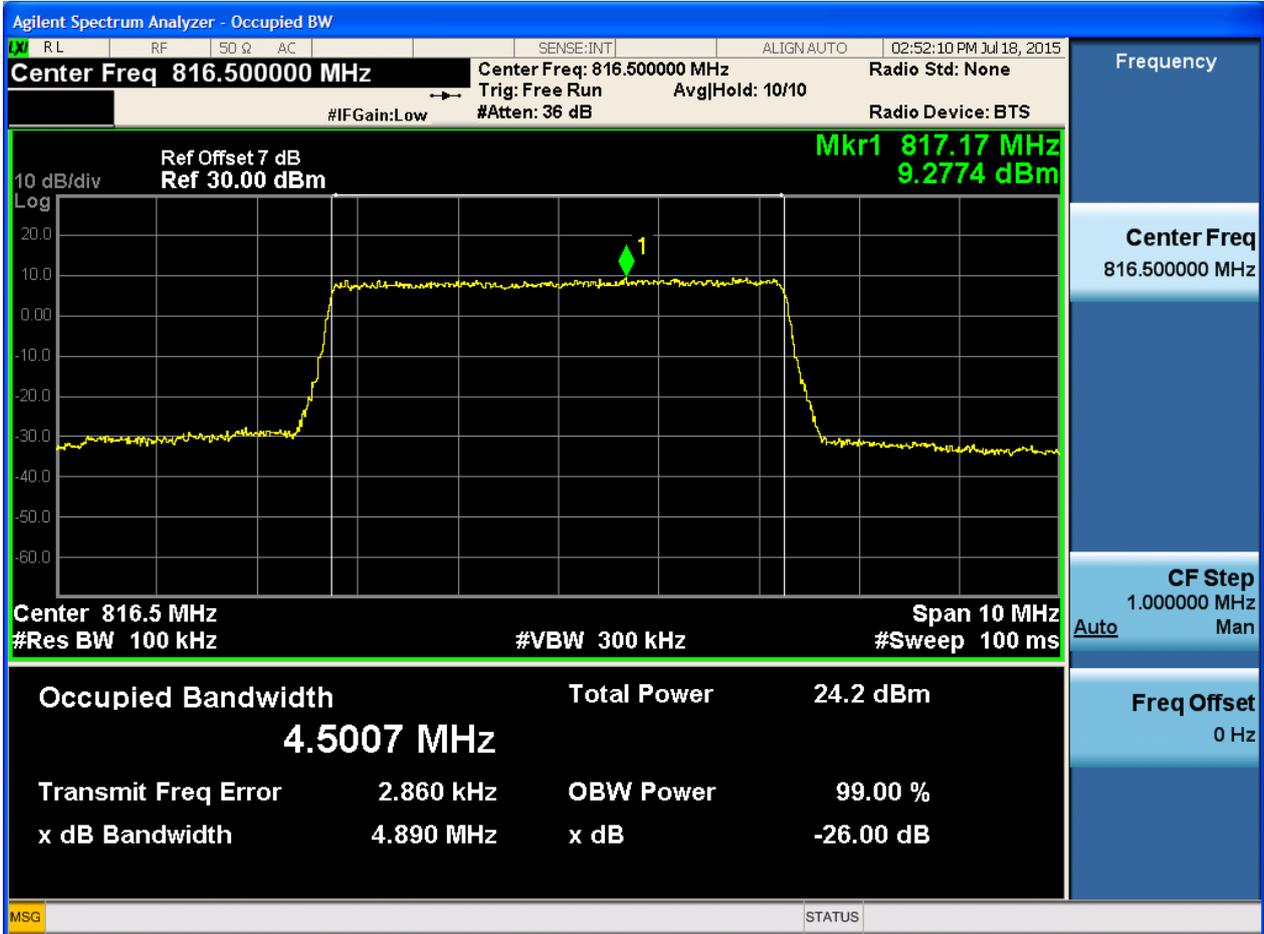




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

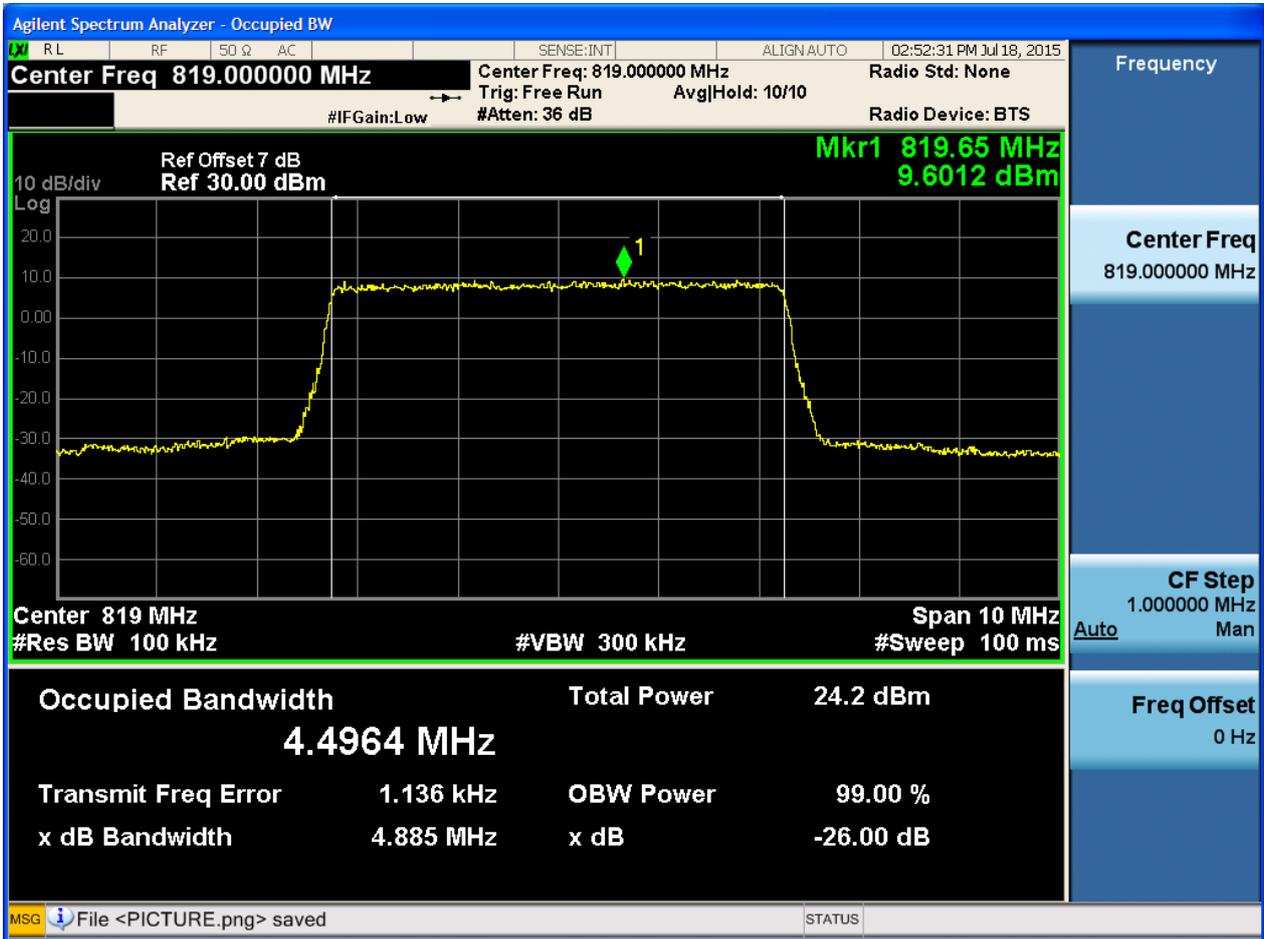
4.1.1.1.3.1.1 Test RB = RB25#0





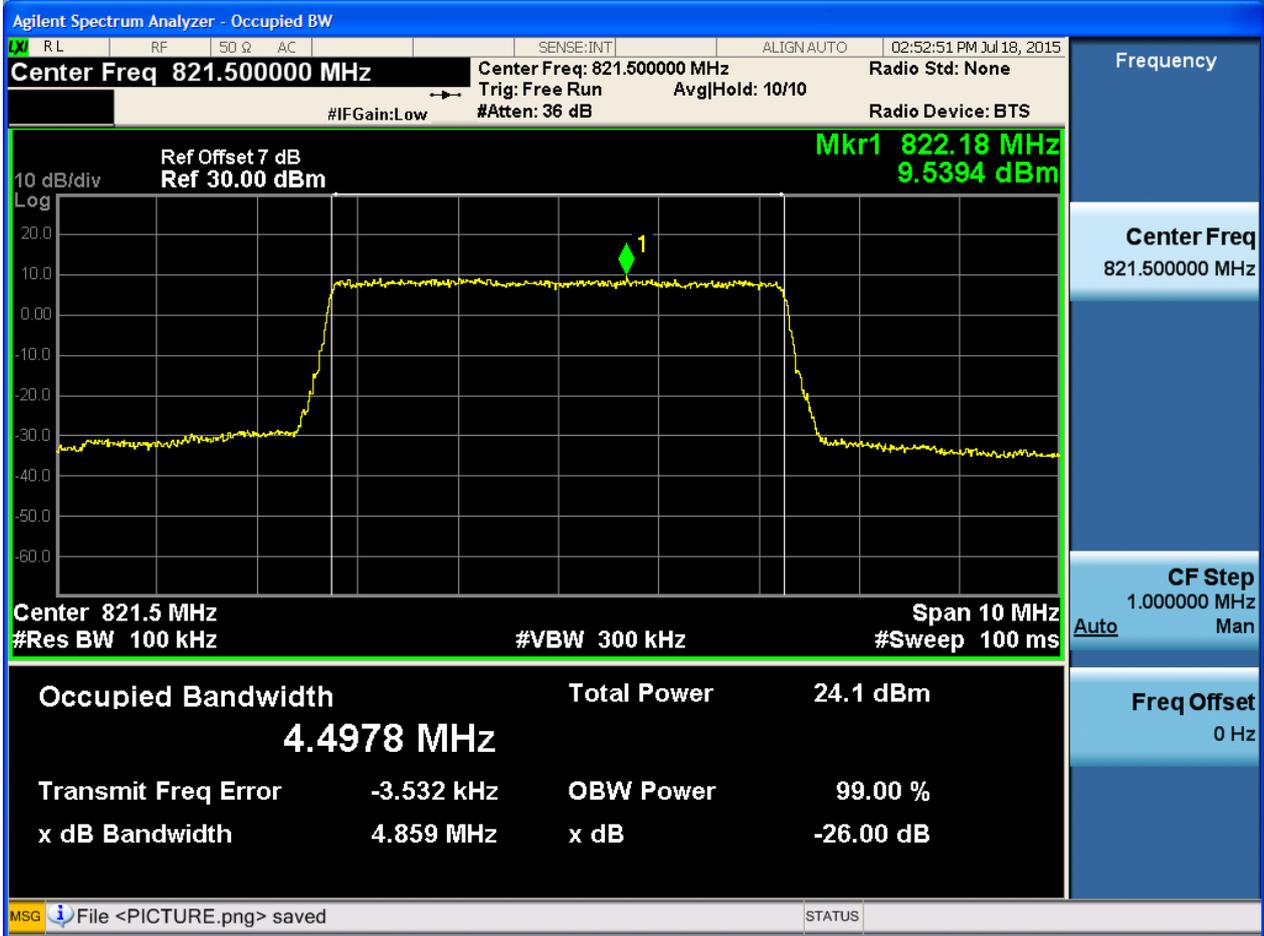
4.1.1.1.3.2 Test Channel = MCH

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/MCH/HCH

4.1.1.1.4.1.1 Test RB = RB50#0



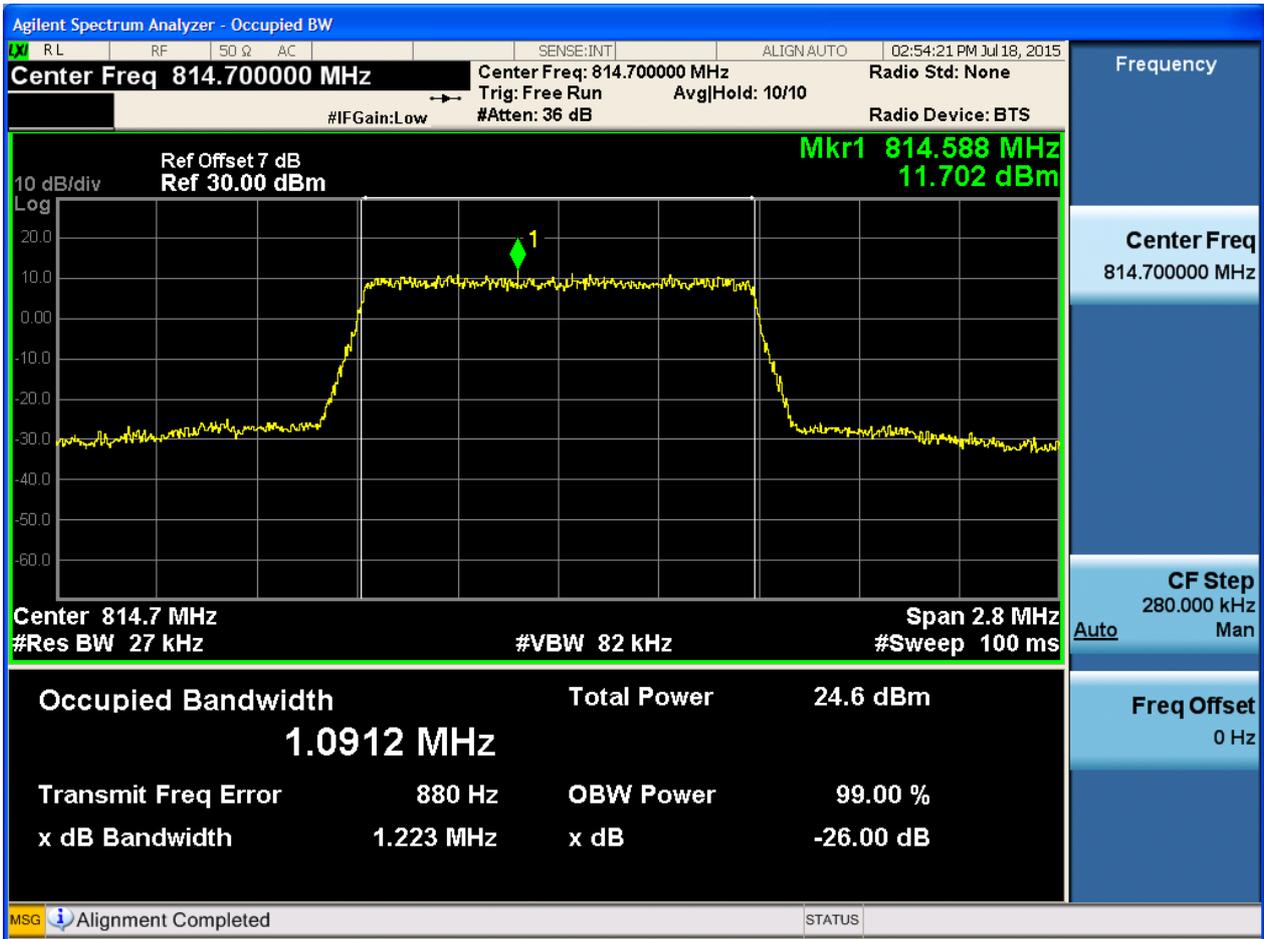


4.1.1.2 Test Mode = LTE/TM2

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





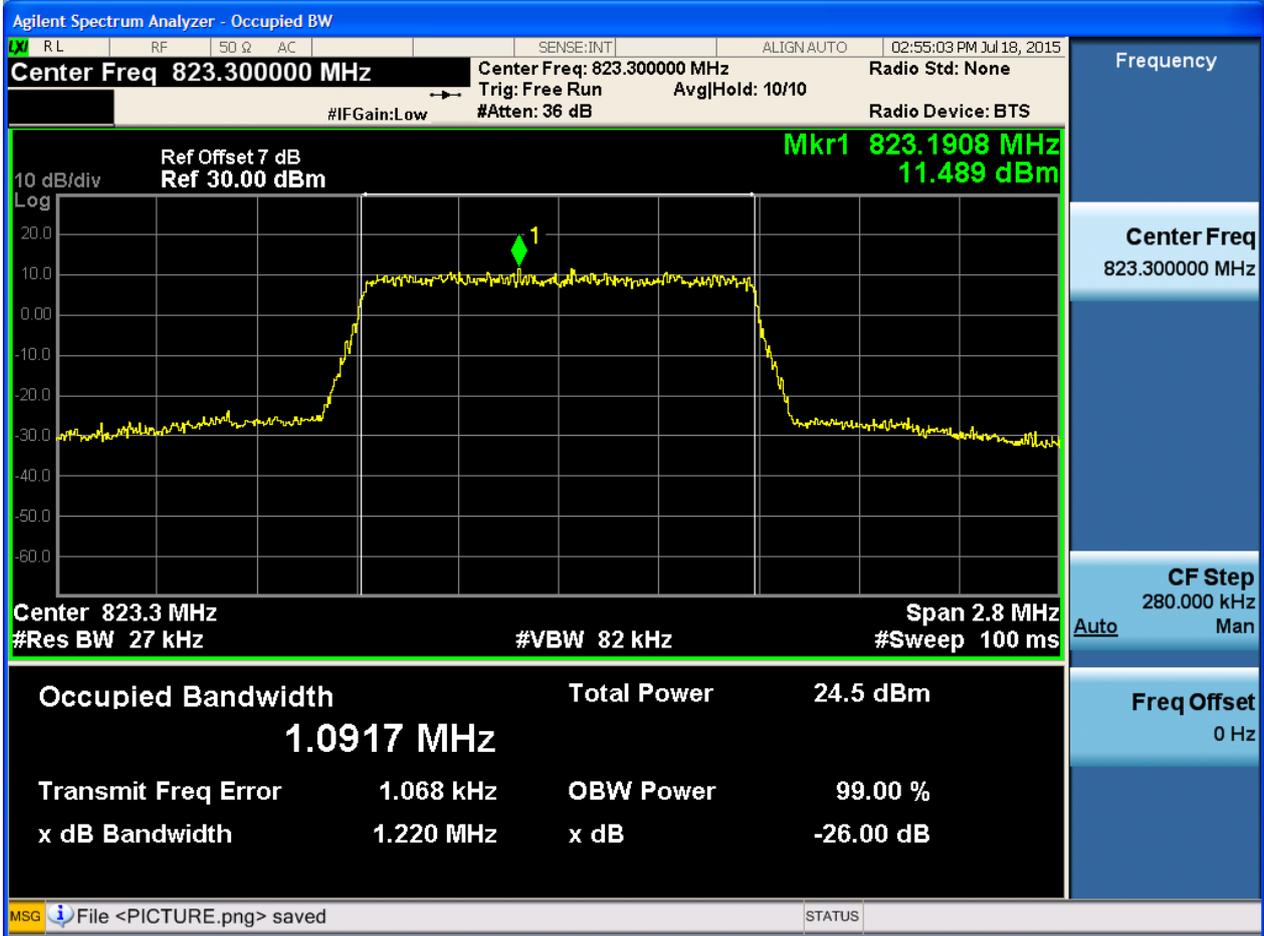
4.1.1.2.1.2 Test Channel = MCH

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

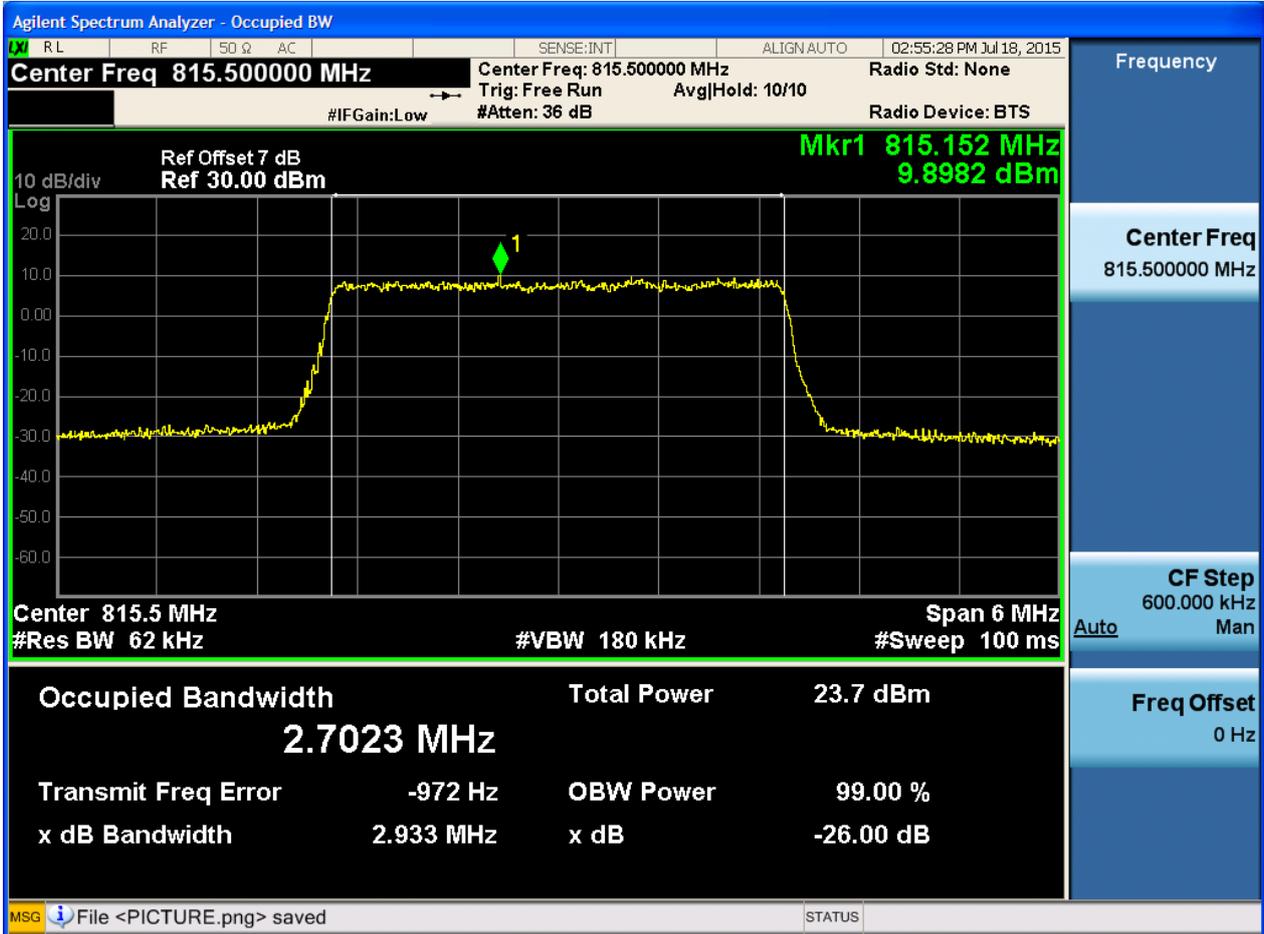




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

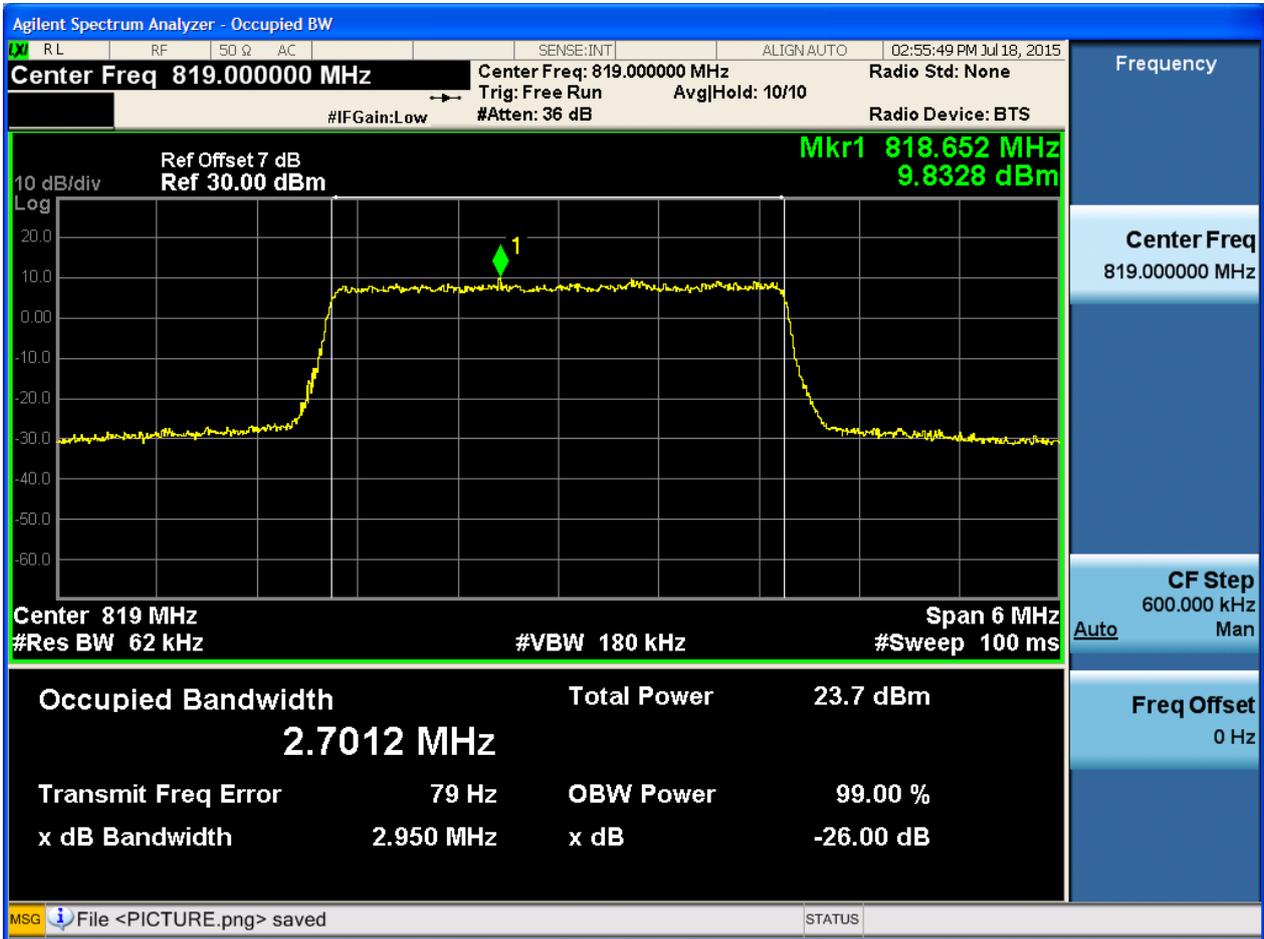
4.1.1.2.2.1.1 Test RB = RB15#0





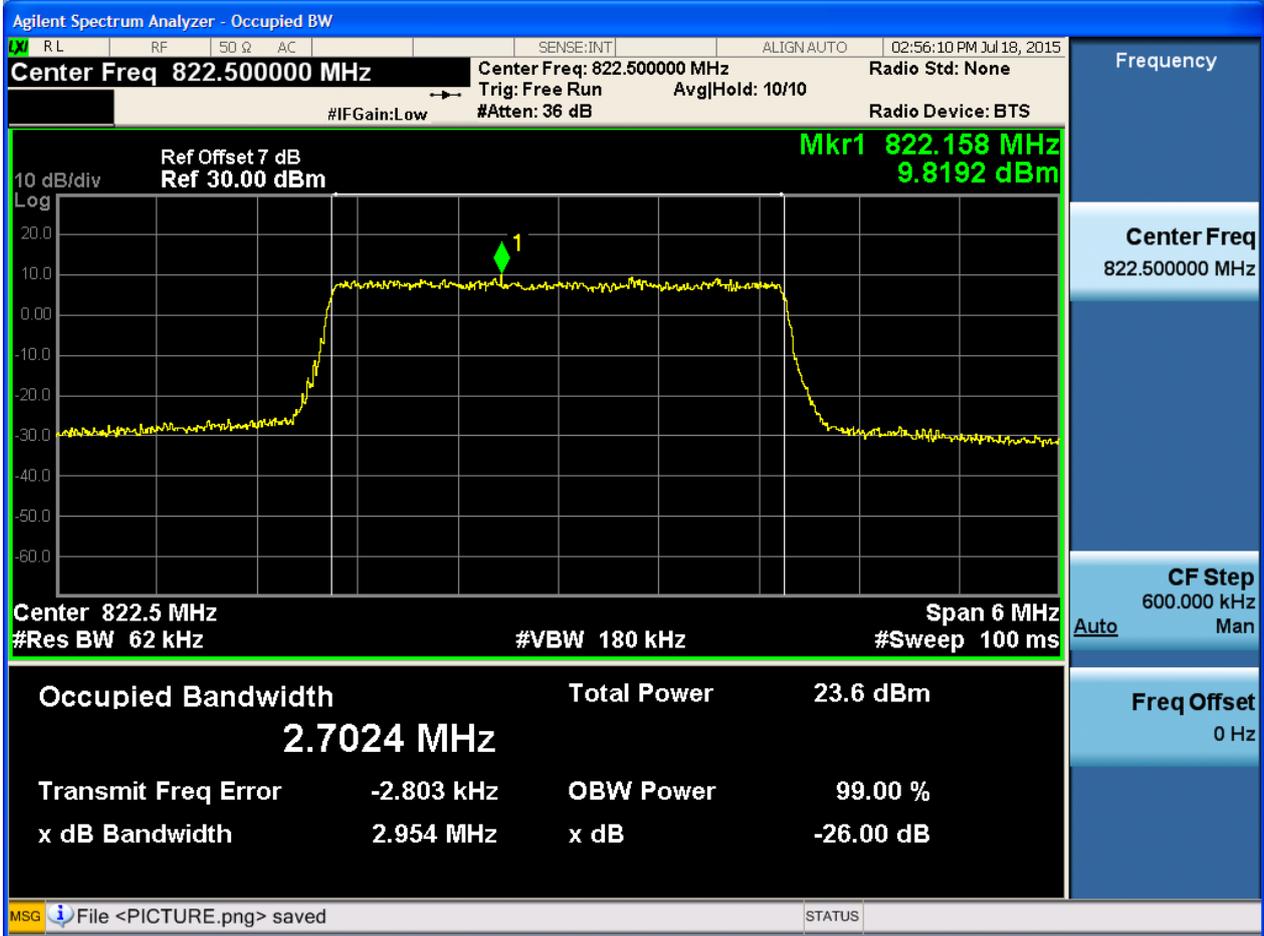
4.1.1.2.2.2 Test Channel = MCH

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

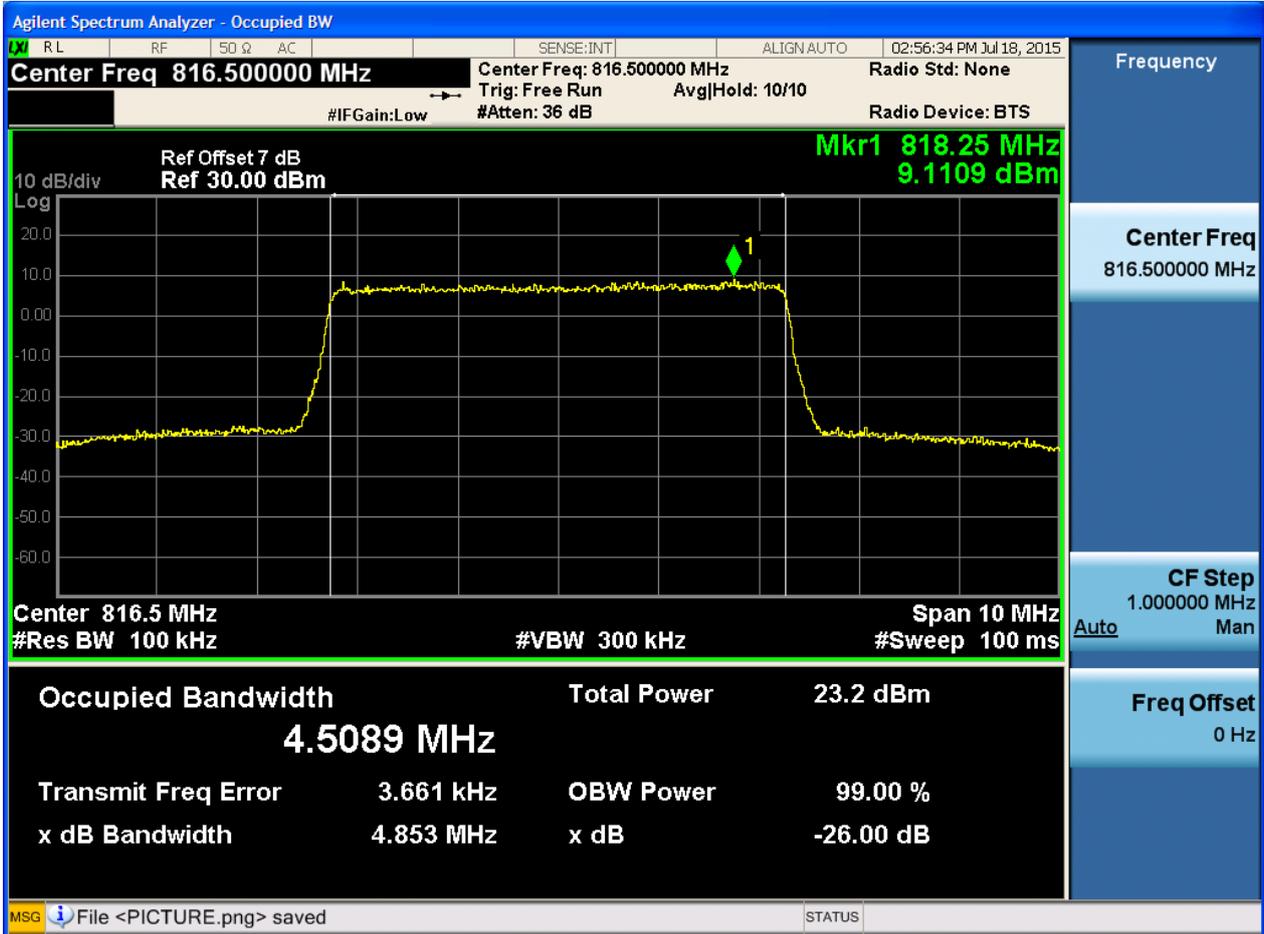




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

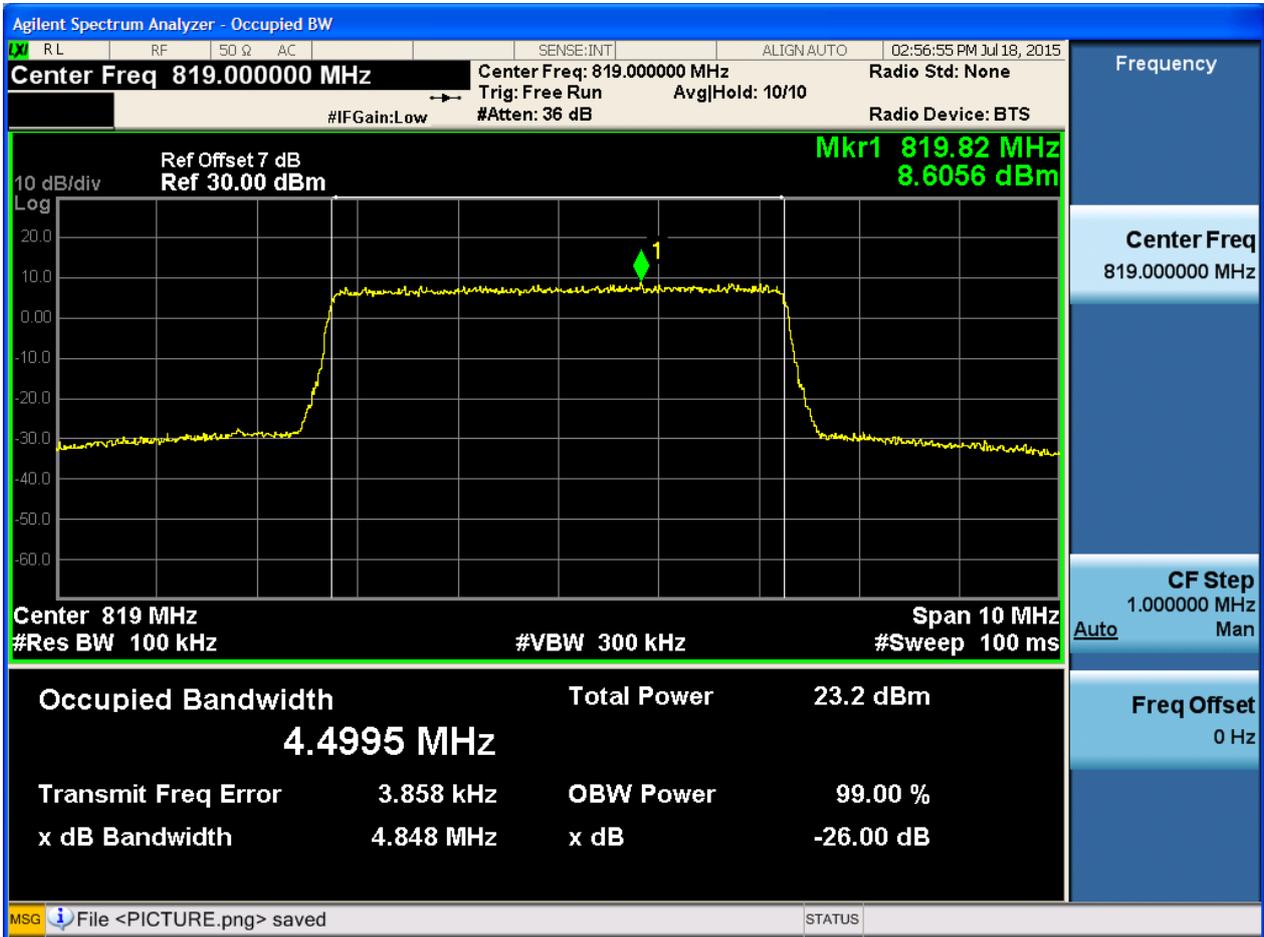
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

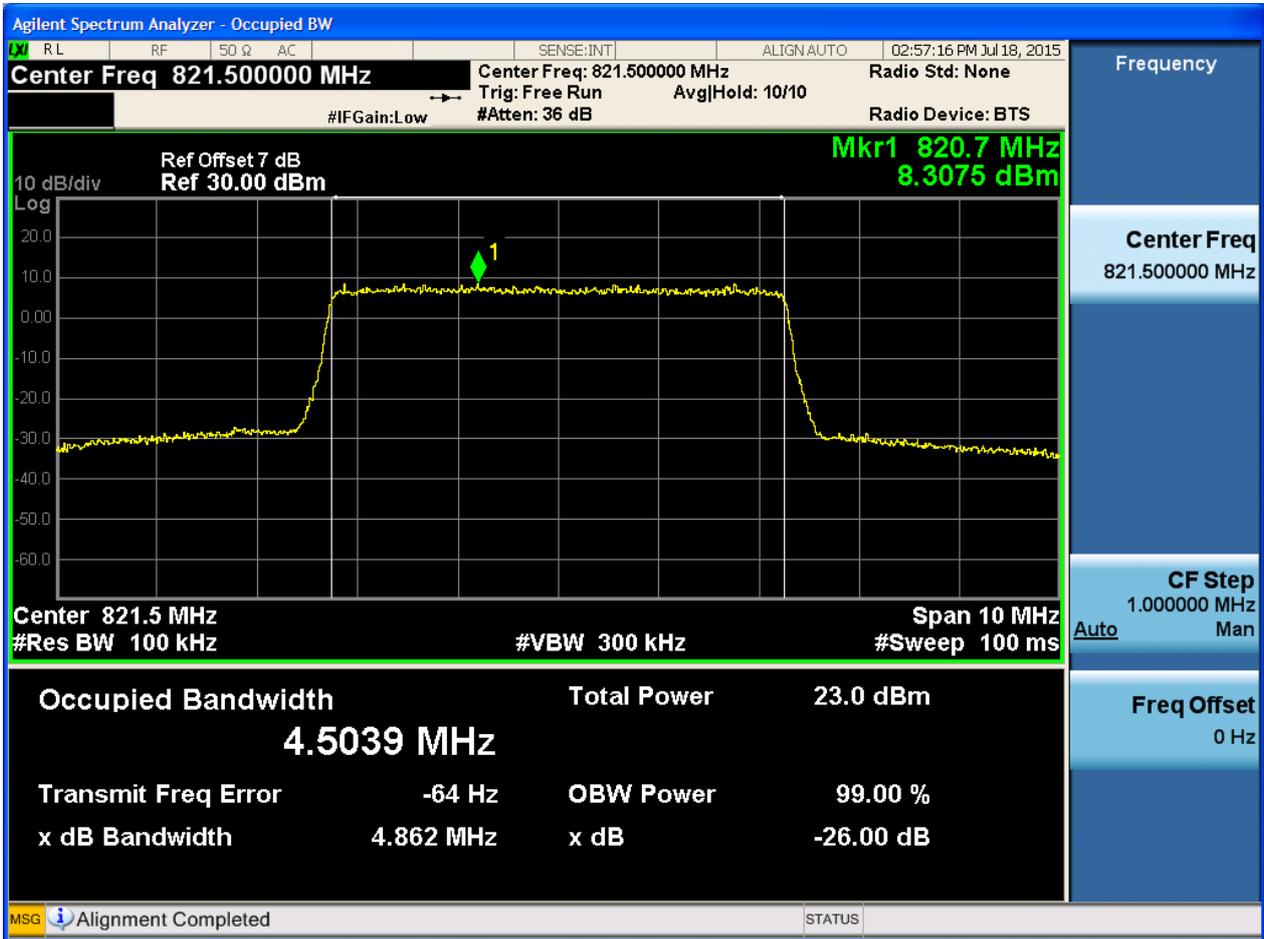
4.1.1.2.3.2.1 Test RB = RB25#0





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/MCH/HCH

4.1.1.2.4.1.1 Test RB = RB50#0





5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

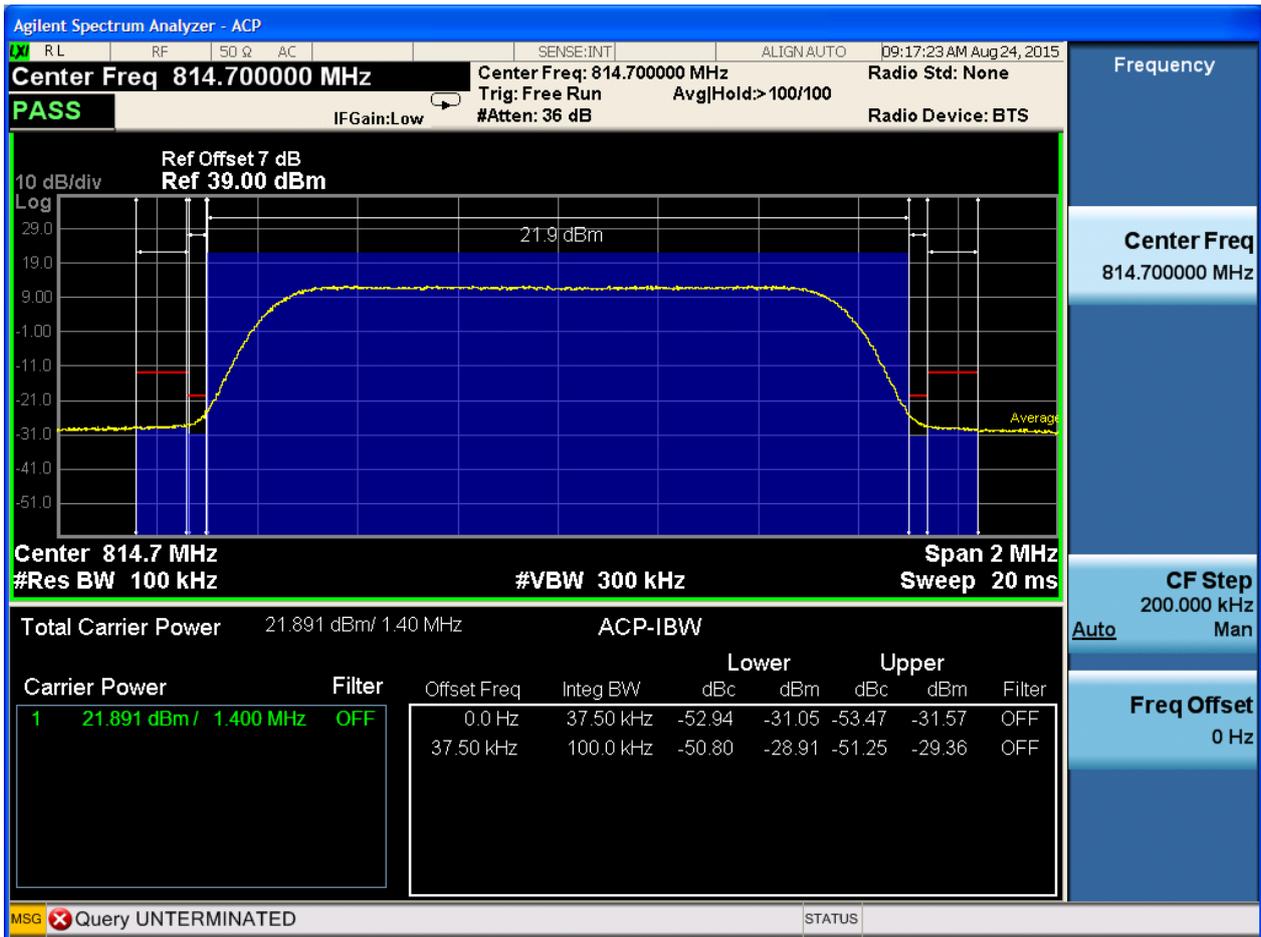
5.1.1 Test Band = BAND26

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

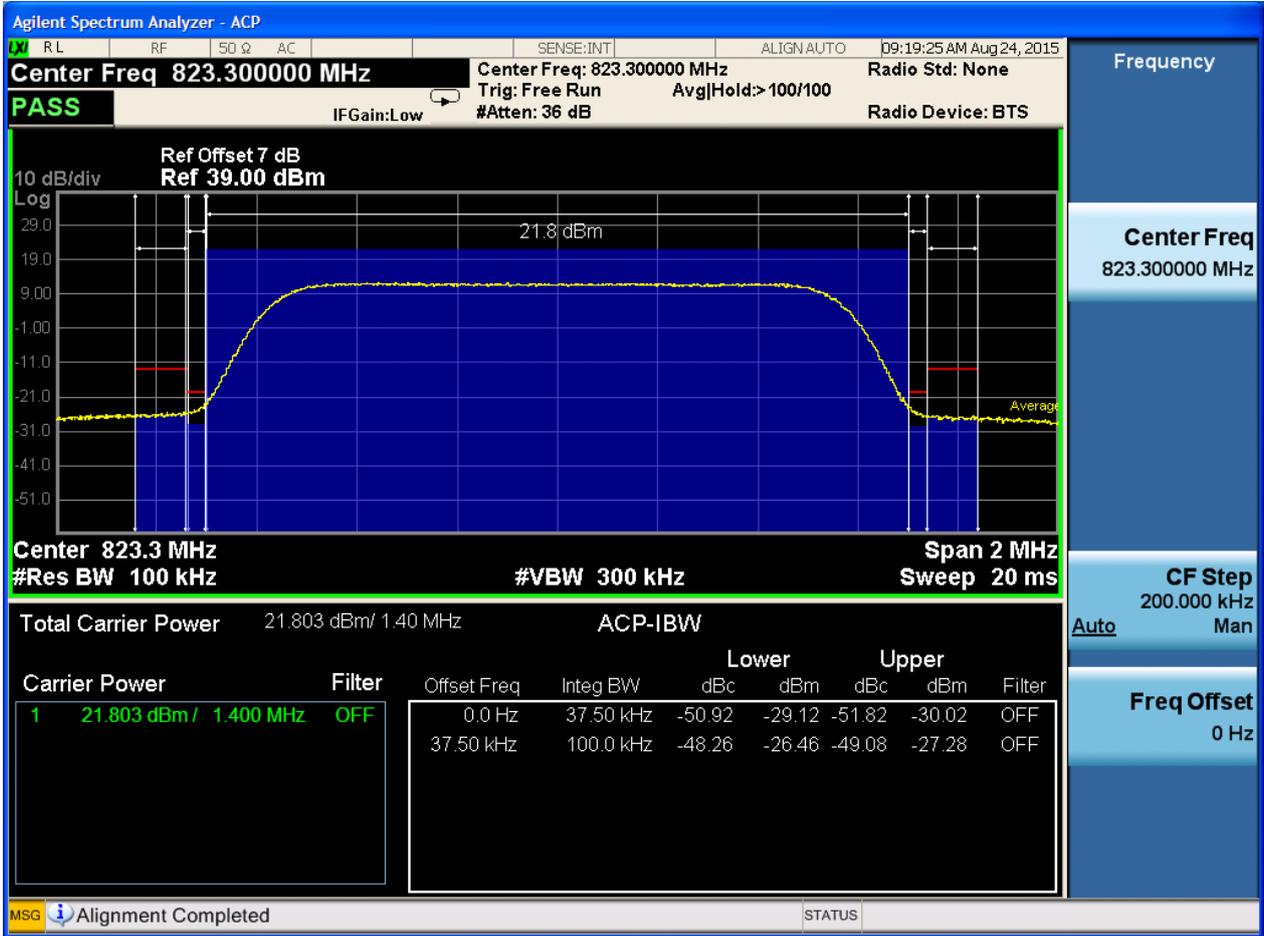
5.1.1.1.1.1 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB6#0

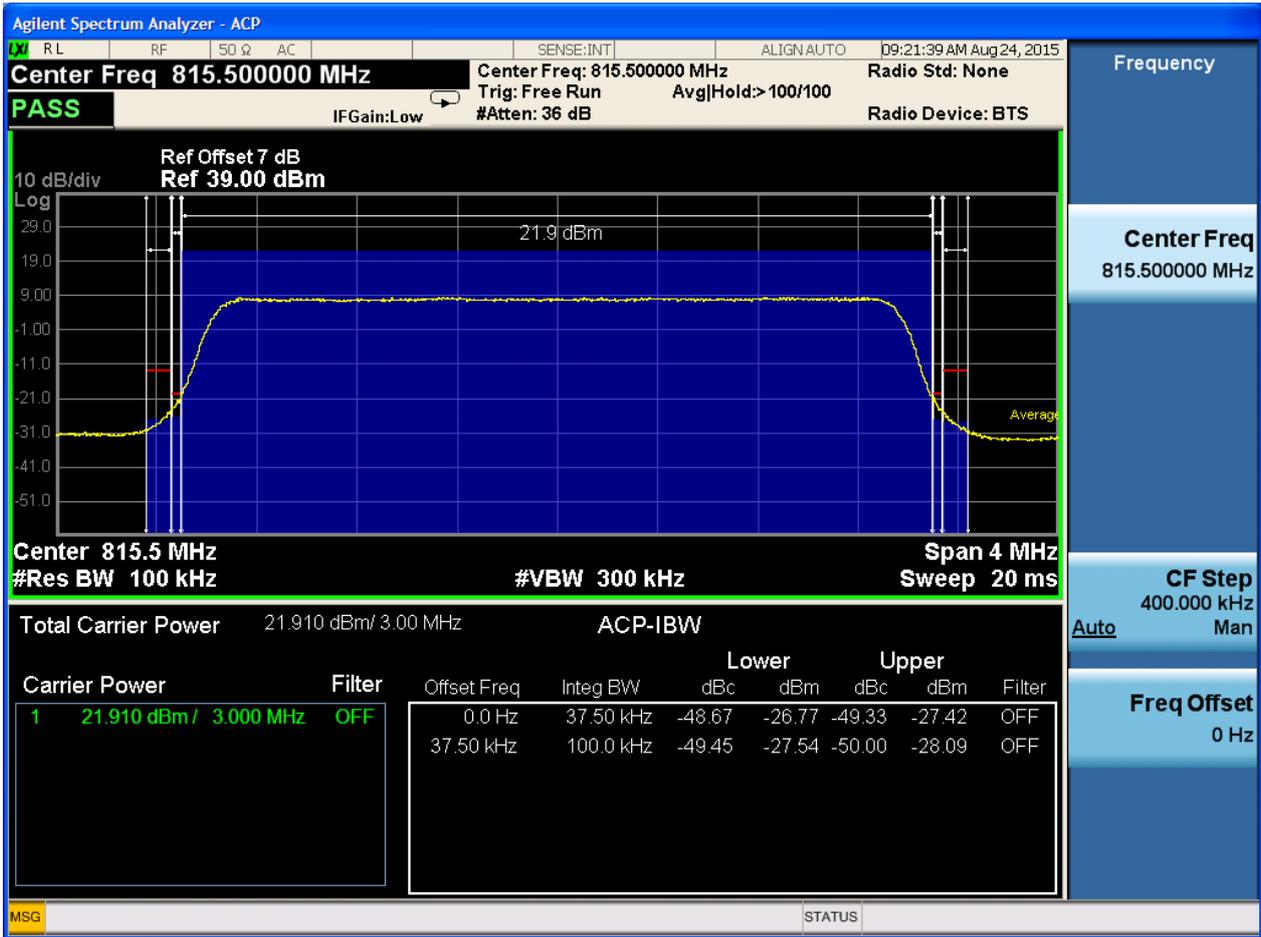




5.1.1.1.2 Test Bandwidth = 3

5.1.1.1.2.1 Test Channel = LCH

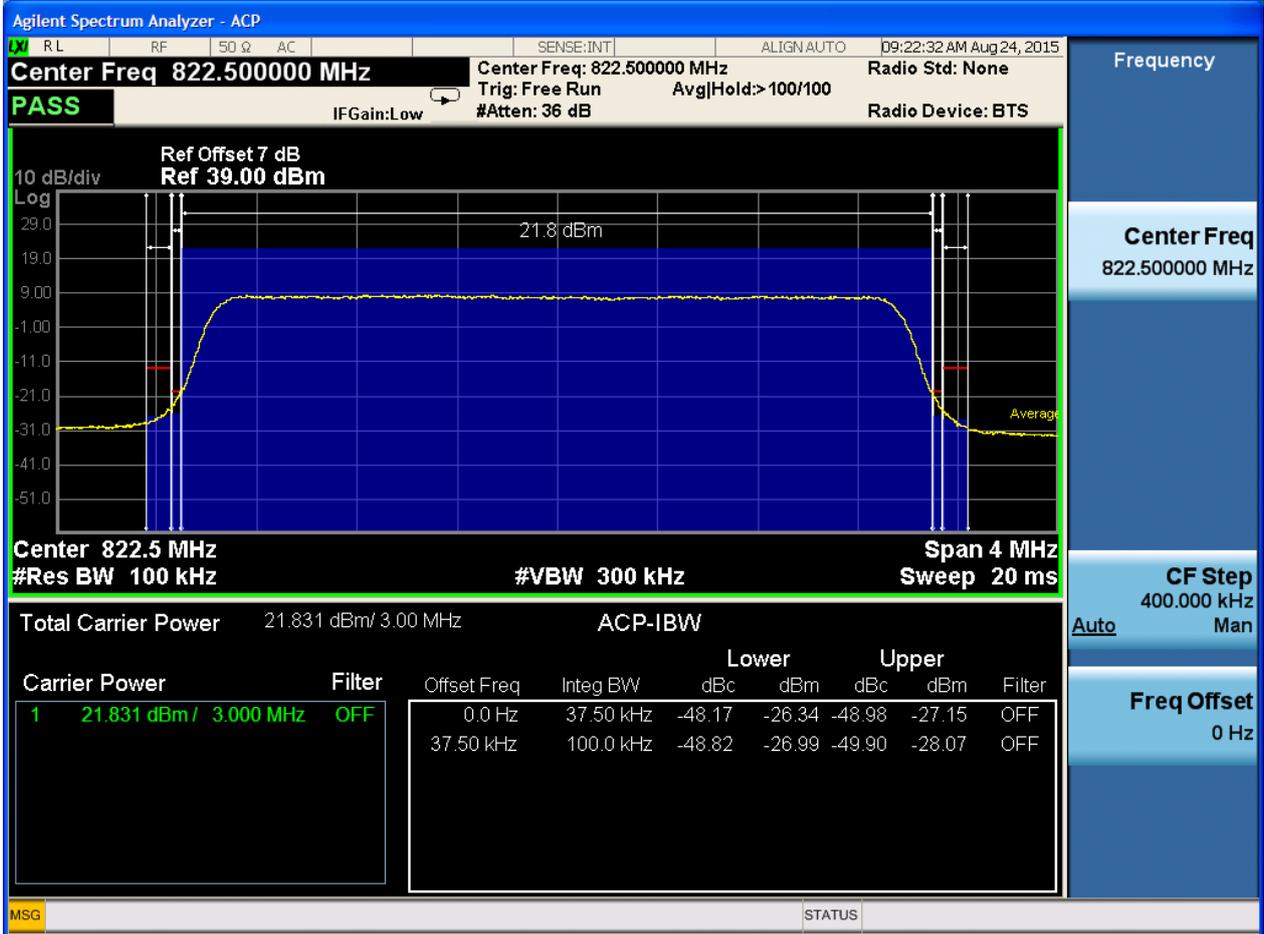
5.1.1.1.2.1.4 Test RB = RB15#0





5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.4 Test RB = RB15#0

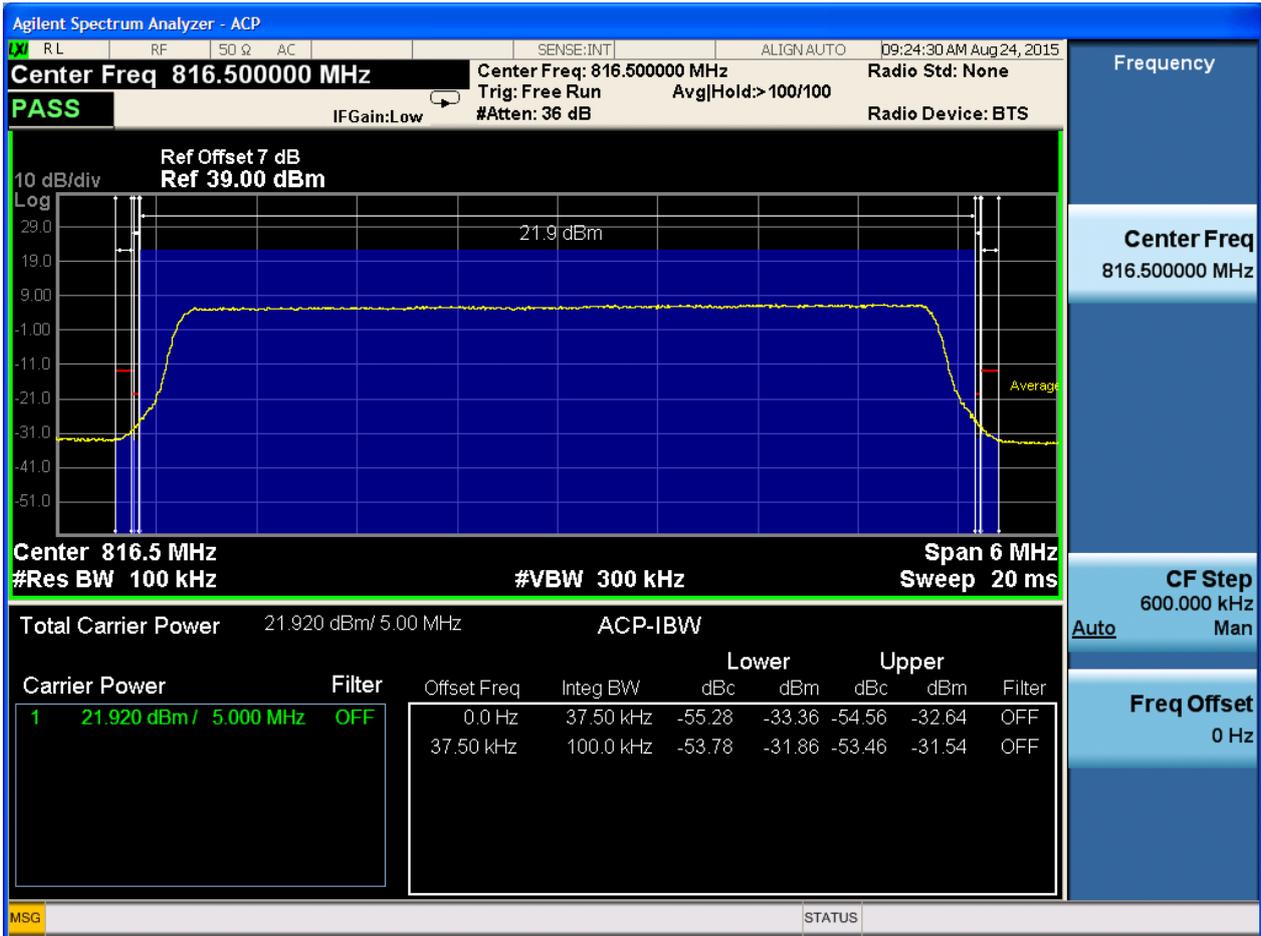




5.1.1.1.3 Test Bandwidth = 5

5.1.1.1.3.1 Test Channel = LCH

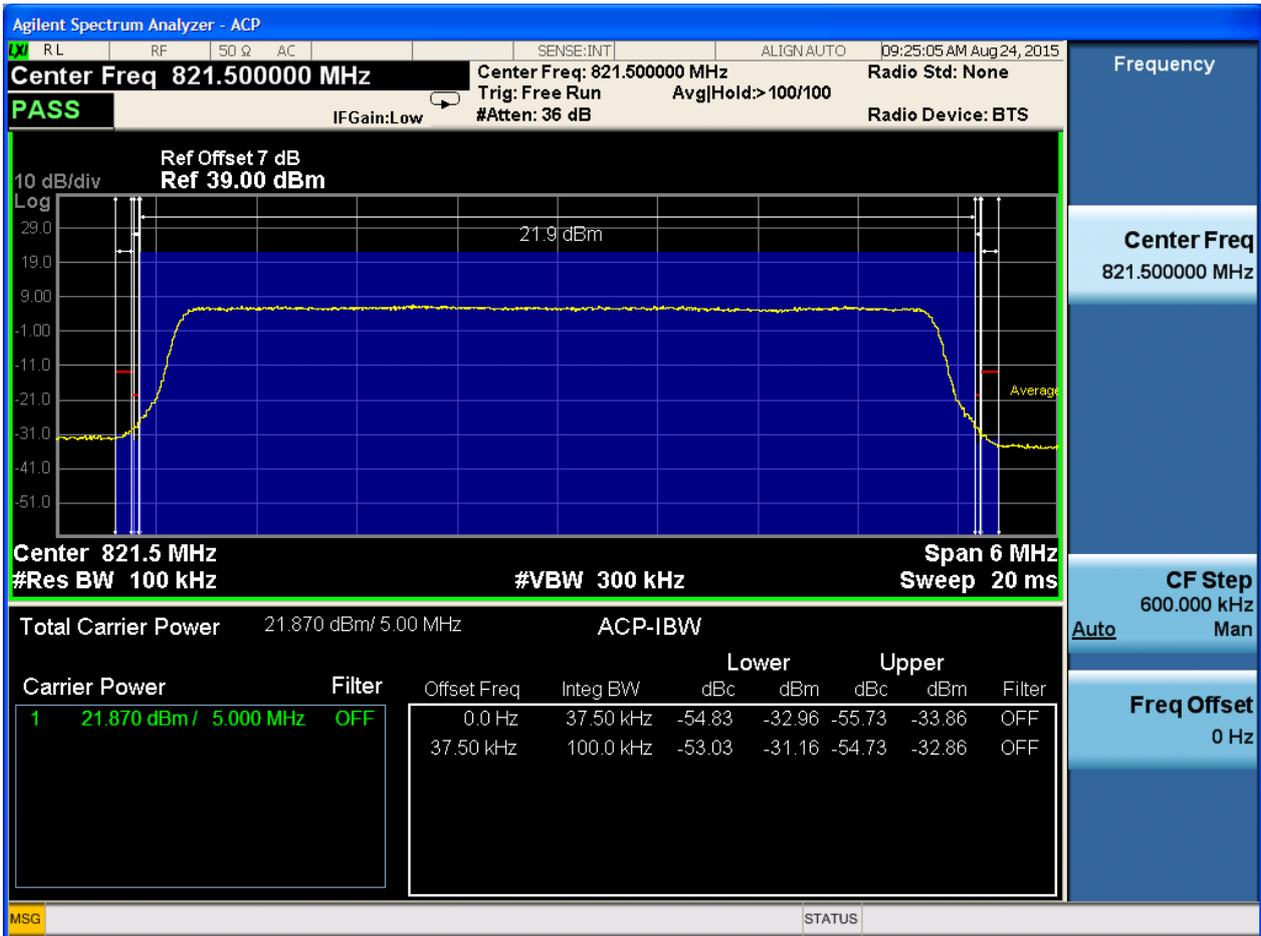
5.1.1.1.3.1.1 Test RB = RB25#0





5.1.1.1.3.1 Test Channel = HCH

5.1.1.1.3.1.1 Test RB = RB25#0

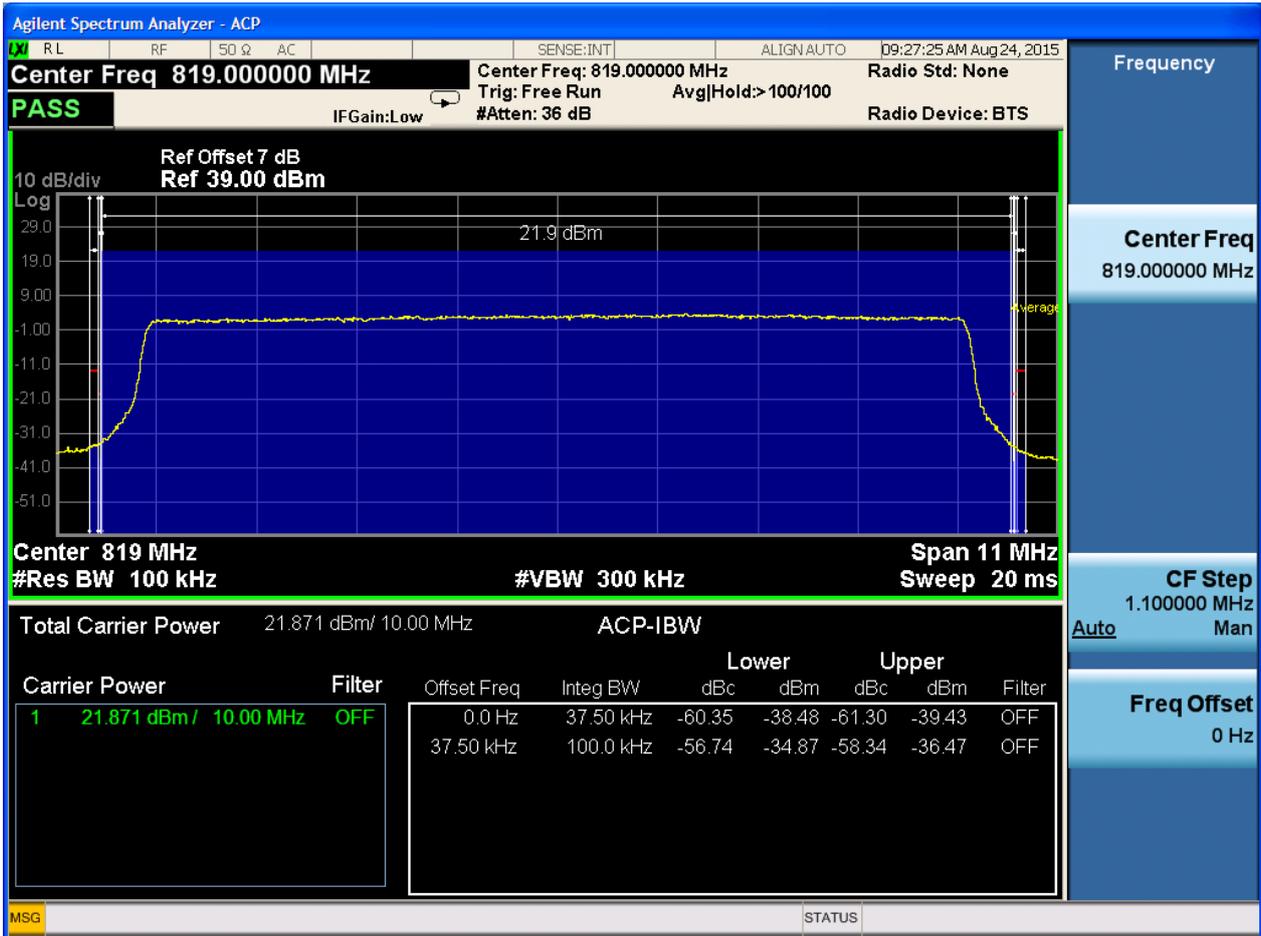




5.1.1.1.3 Test Bandwidth = 10

5.1.1.1.3.1 Test Channel = LCH/MCH/HCH

5.1.1.1.3.1.1 Test RB = RB50#0

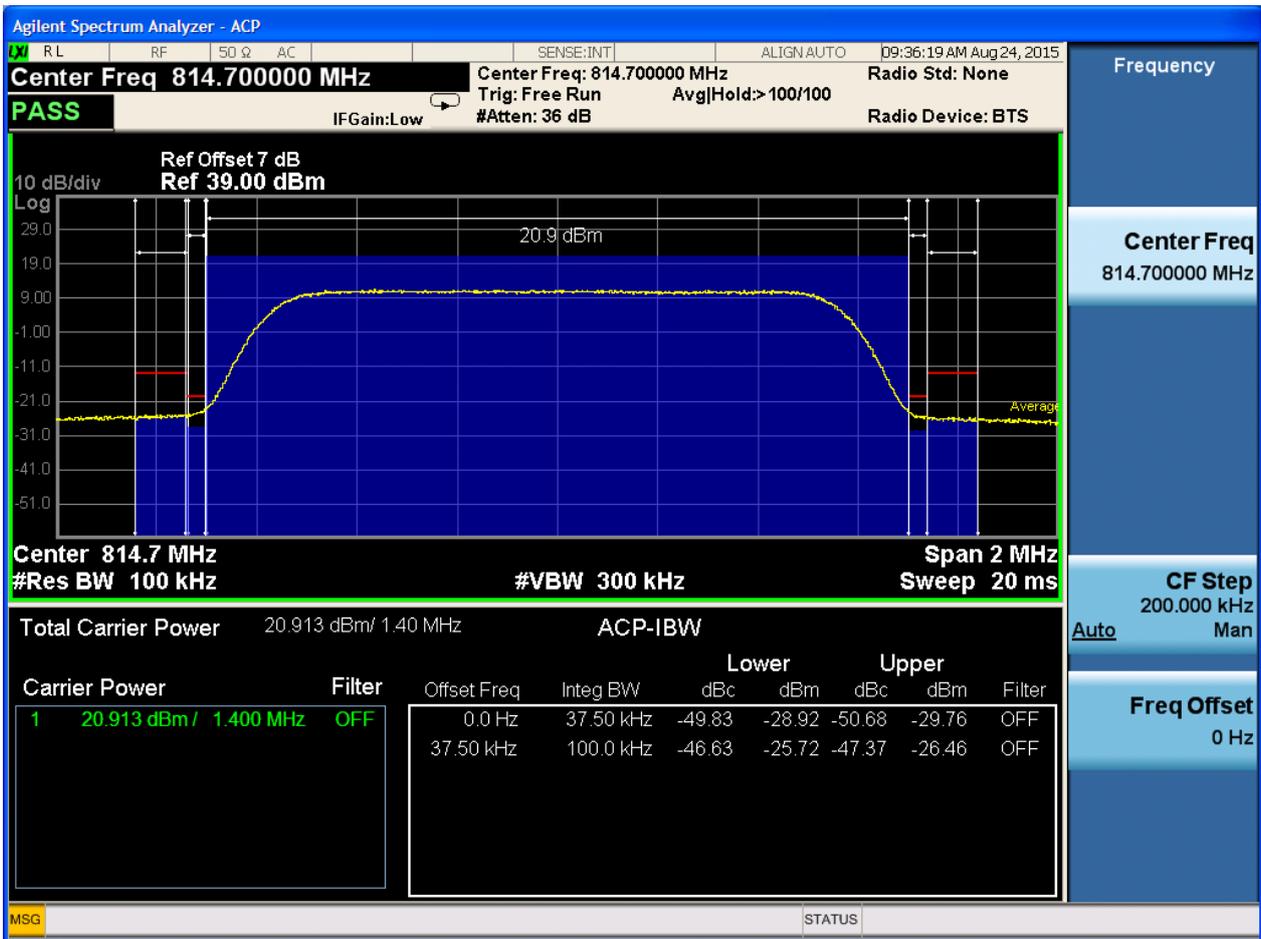


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

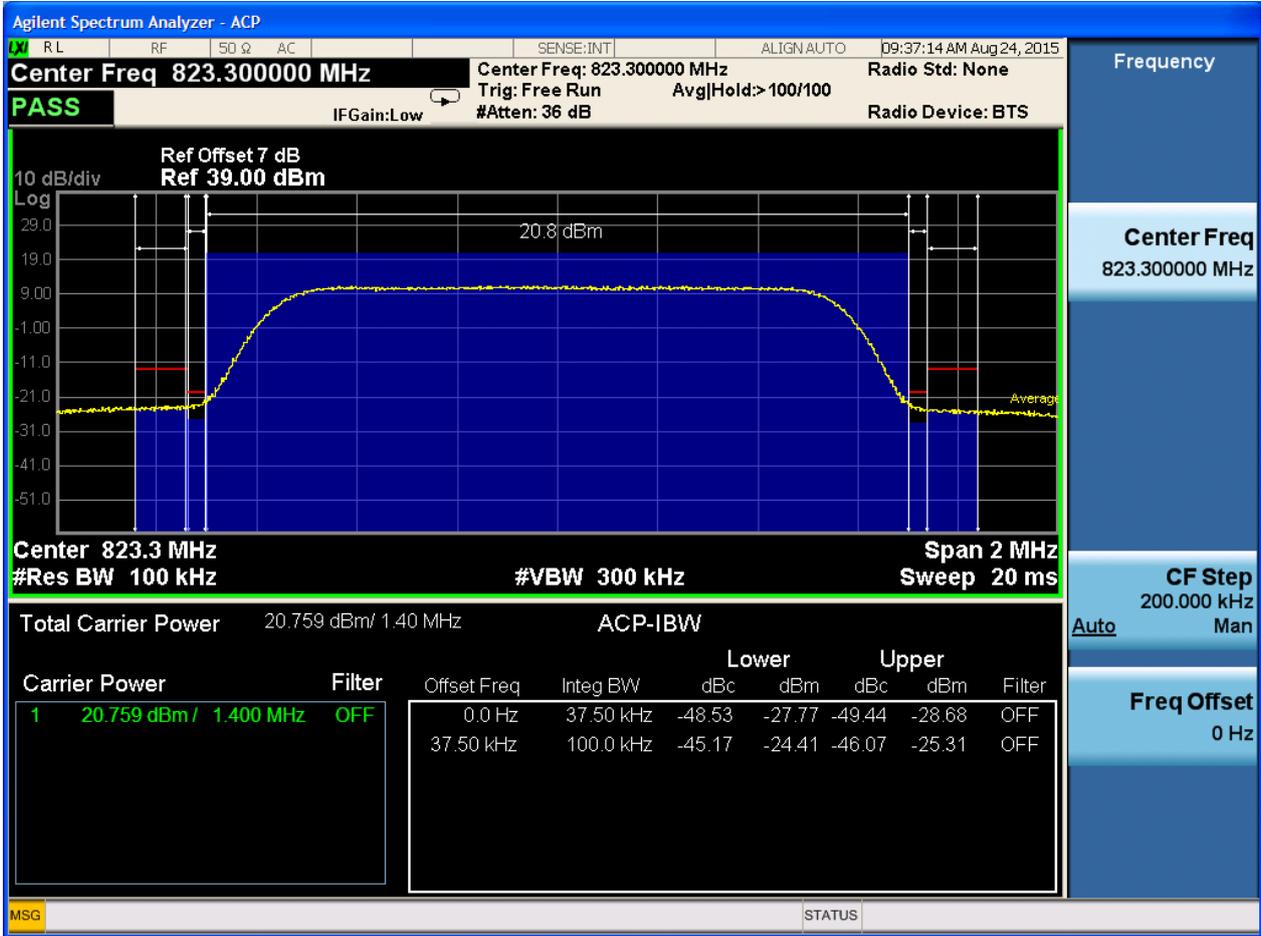
5.1.1.2.1.1.1 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB6#0

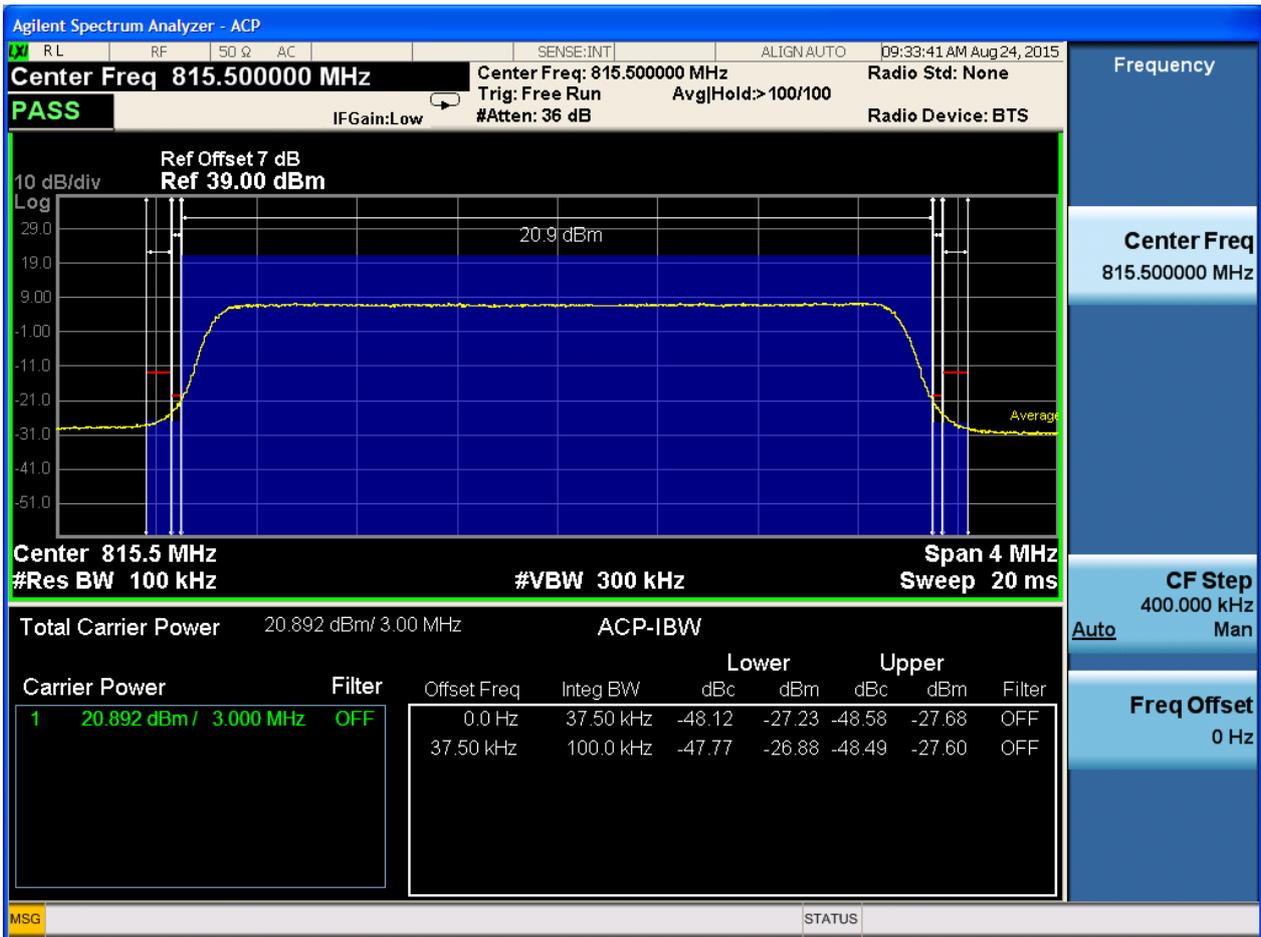




5.1.1.2.2 Test Bandwidth = 3

5.1.1.2.2.1 Test Channel = LCH

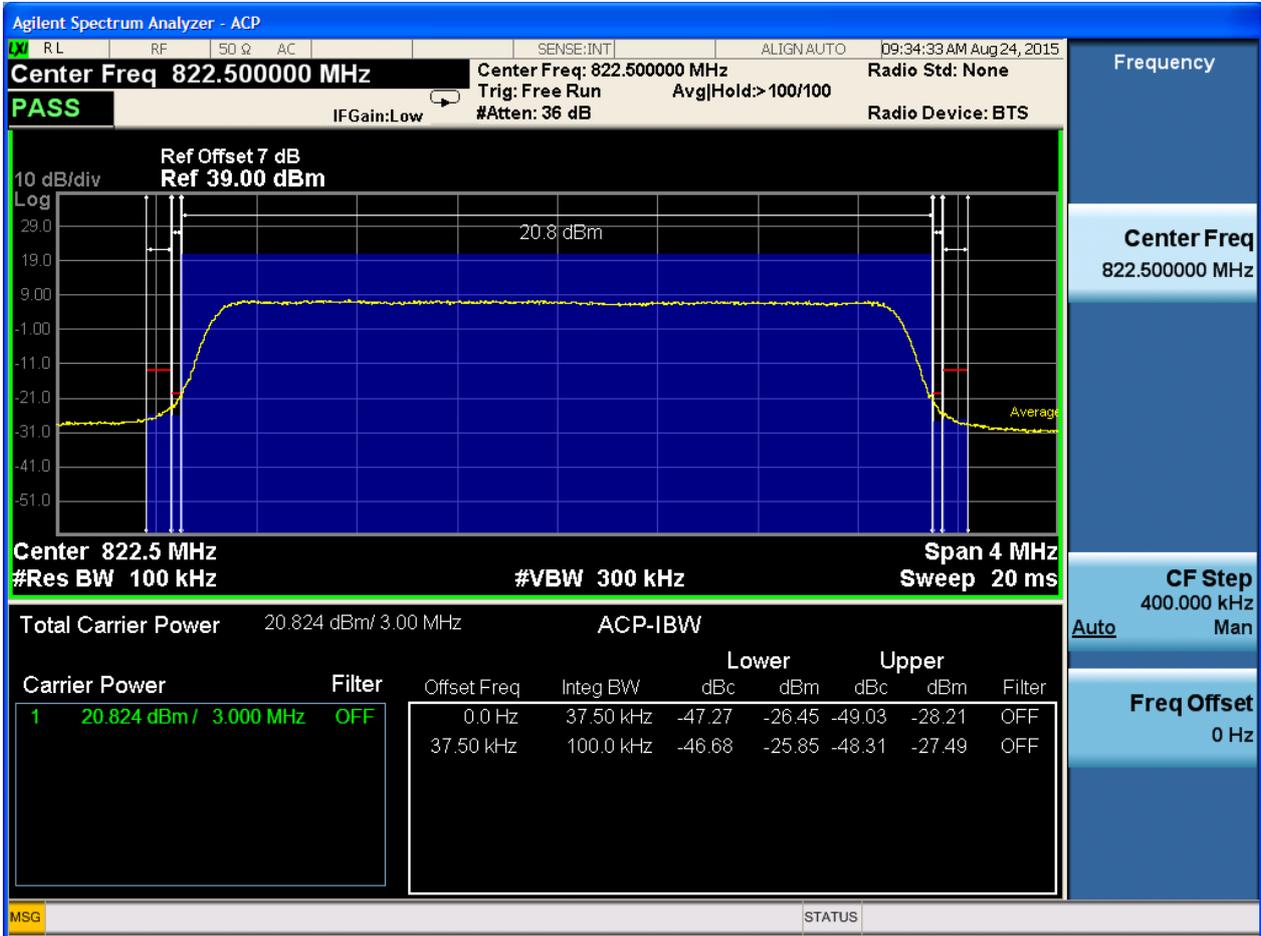
5.1.1.2.2.1.4 Test RB = RB15#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.4 Test RB = RB15#0

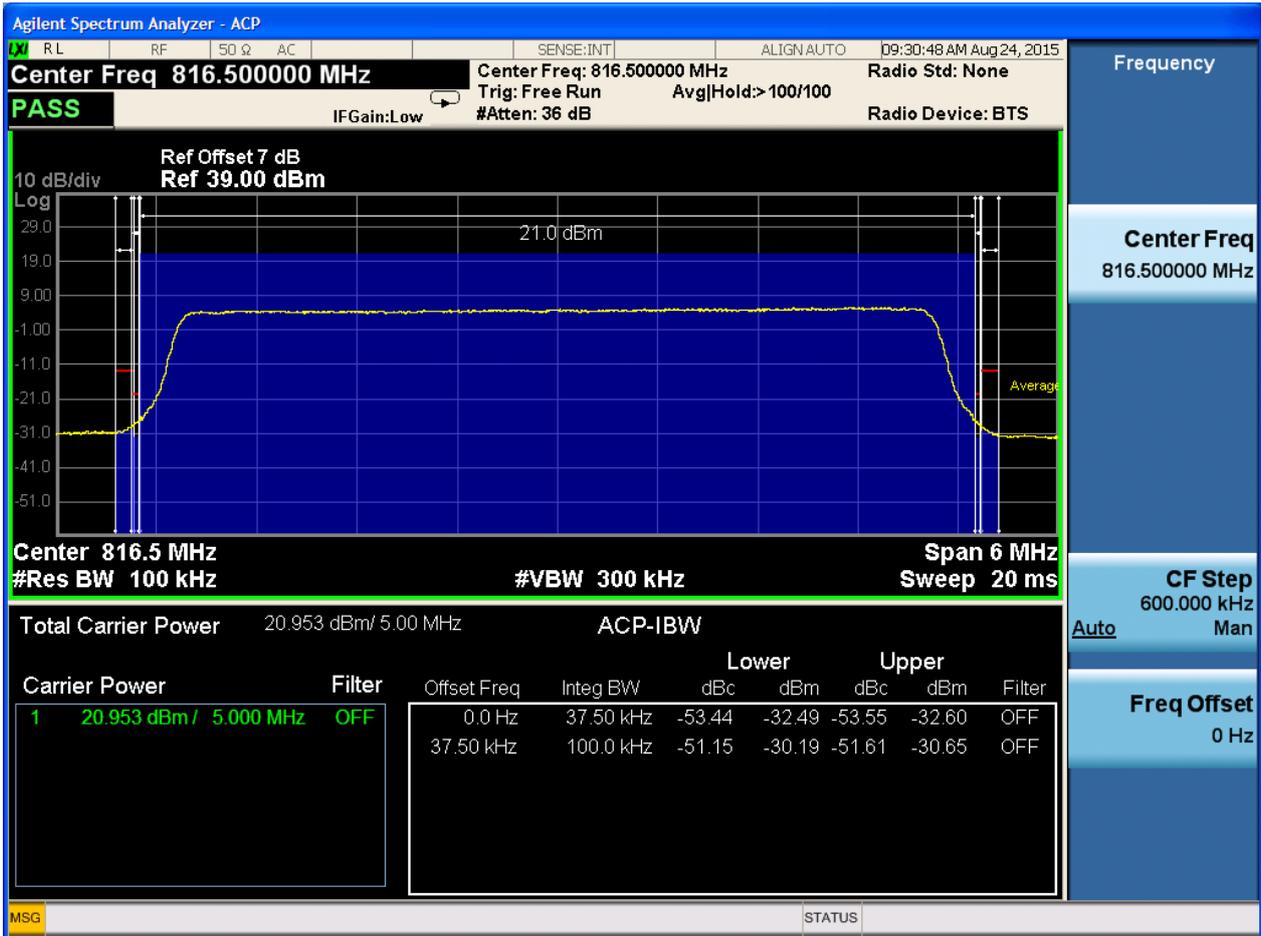




5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

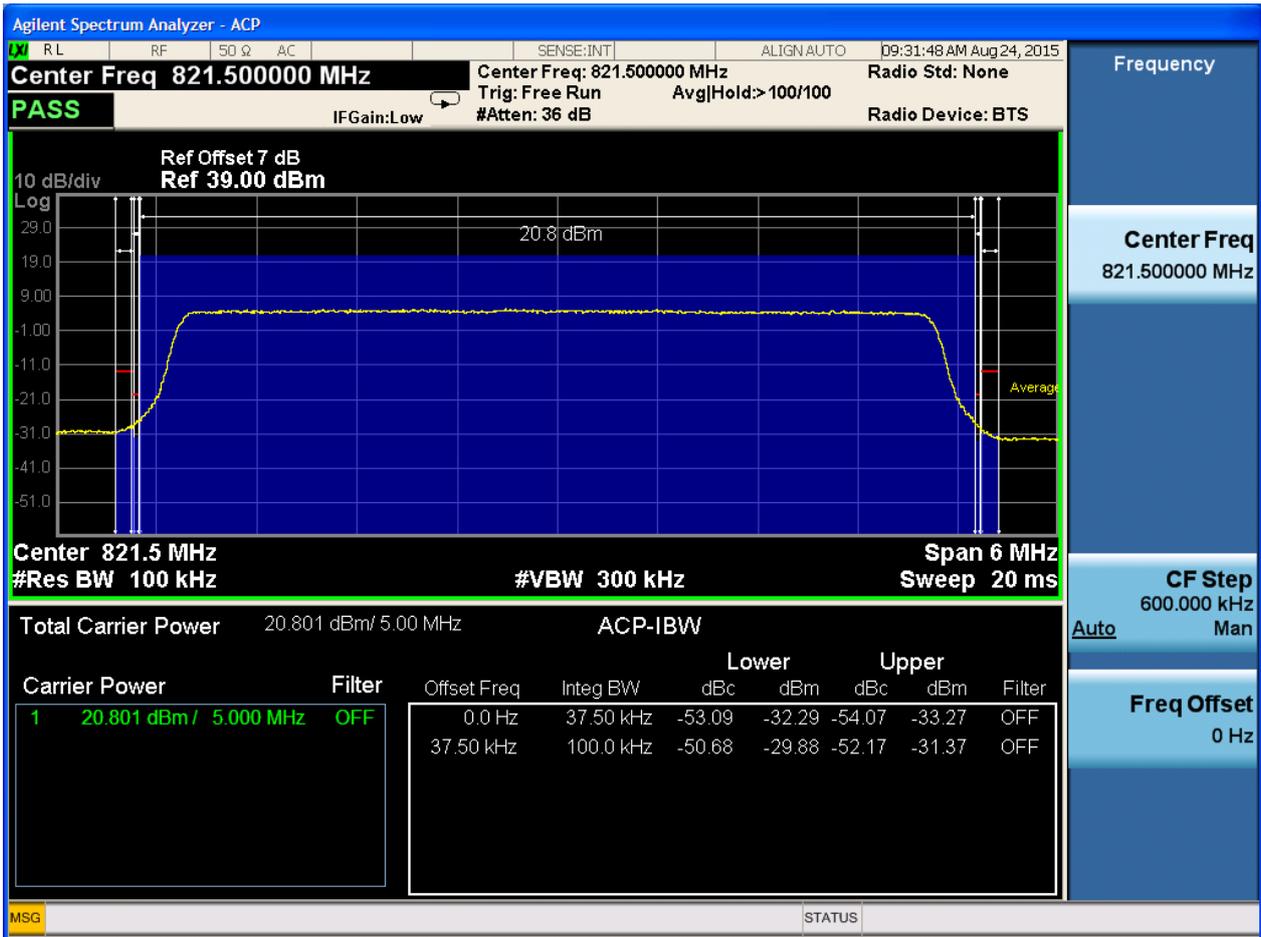
5.1.1.2.3.1.1 Test RB = RB25#0





5.1.1.2.3.1 Test Channel = HCH

5.1.1.2.3.1.1 Test RB = RB25#0

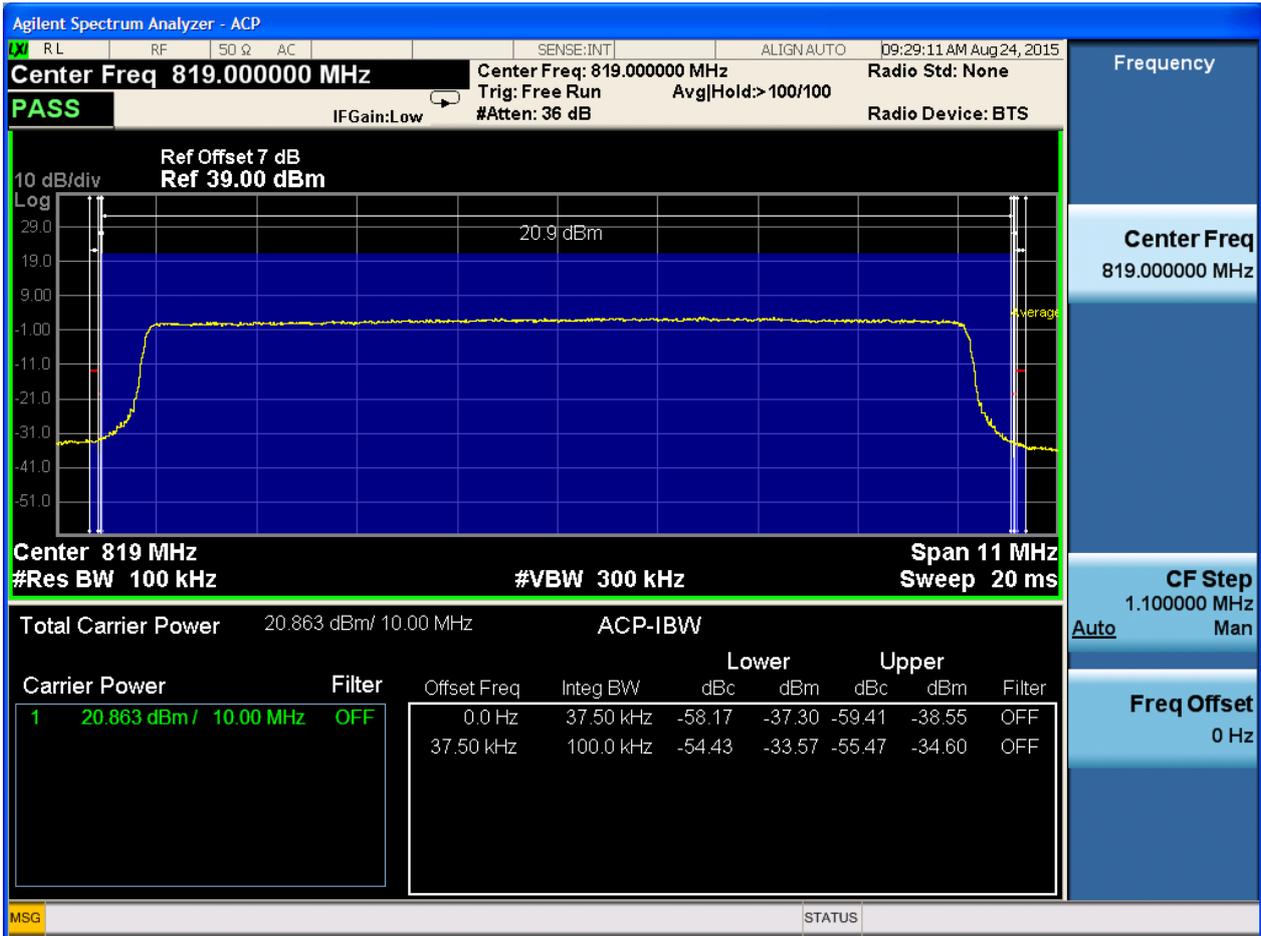




5.1.1.2.3 Test Bandwidth = 10

5.1.1.2.3.1 Test Channel = LCH/MCH/HCH

5.1.1.2.3.1.1 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

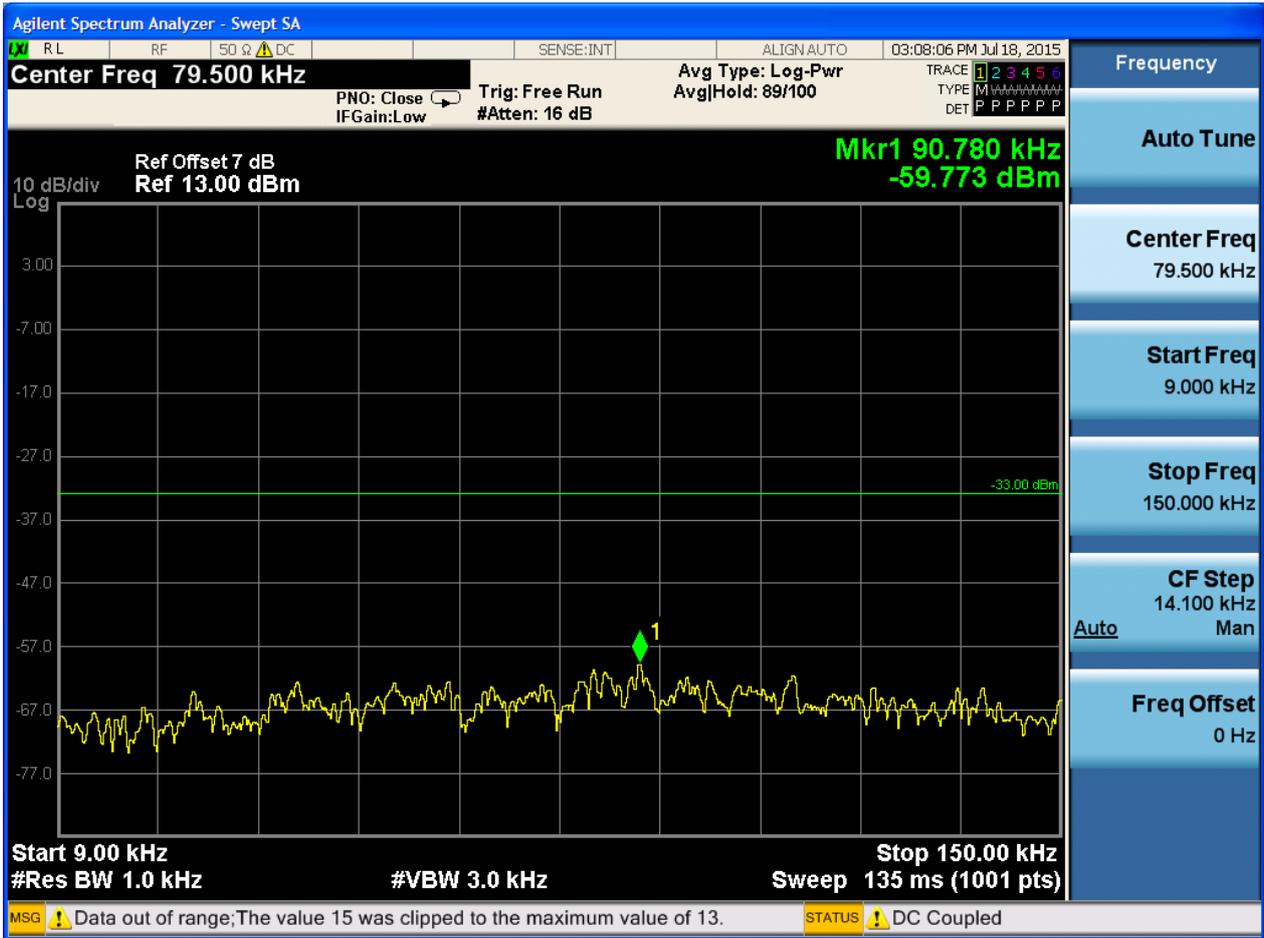
6.1.1 Test Band = BAND26

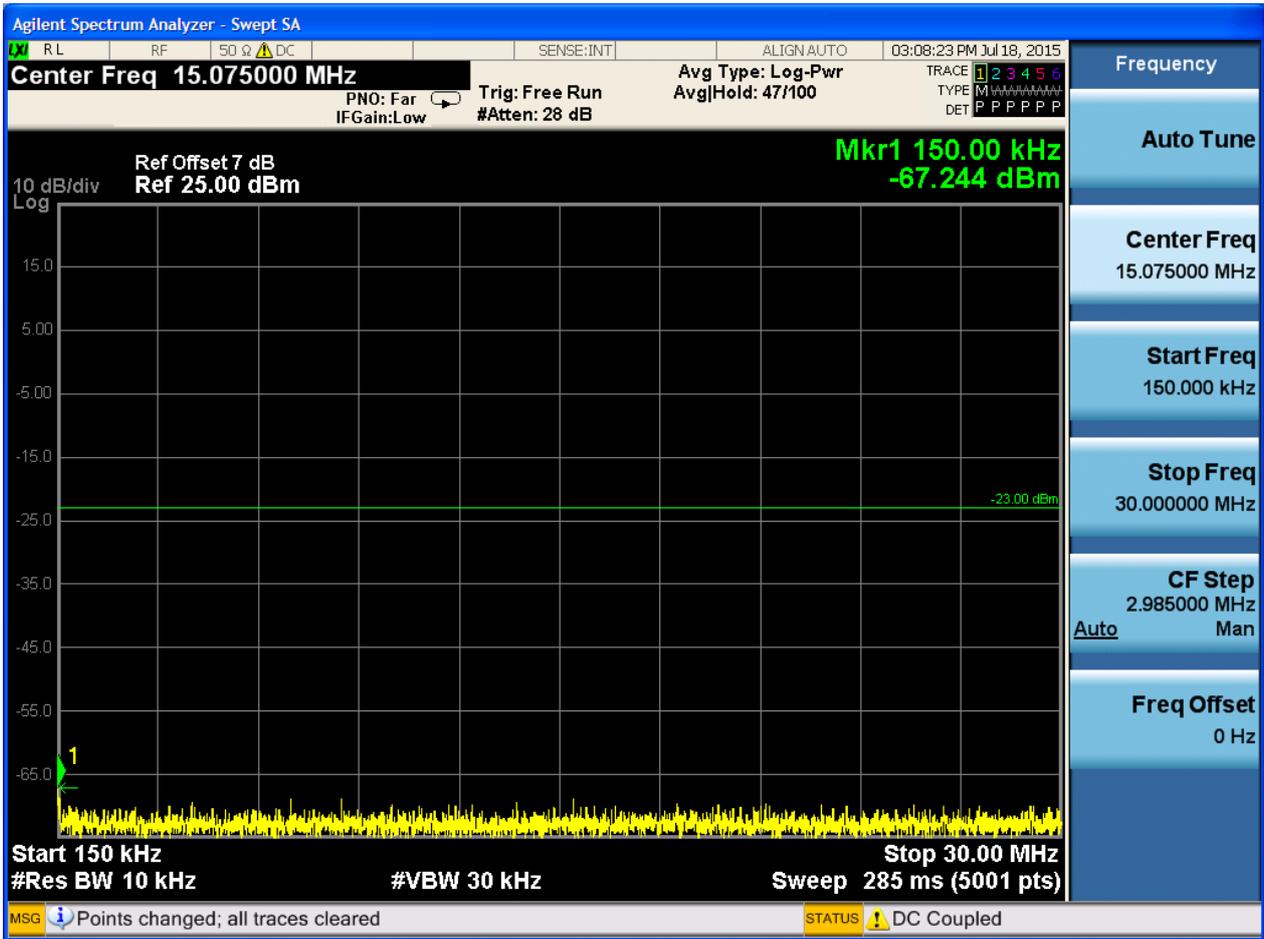
6.1.1.1 Test Mode = LTE/TM1

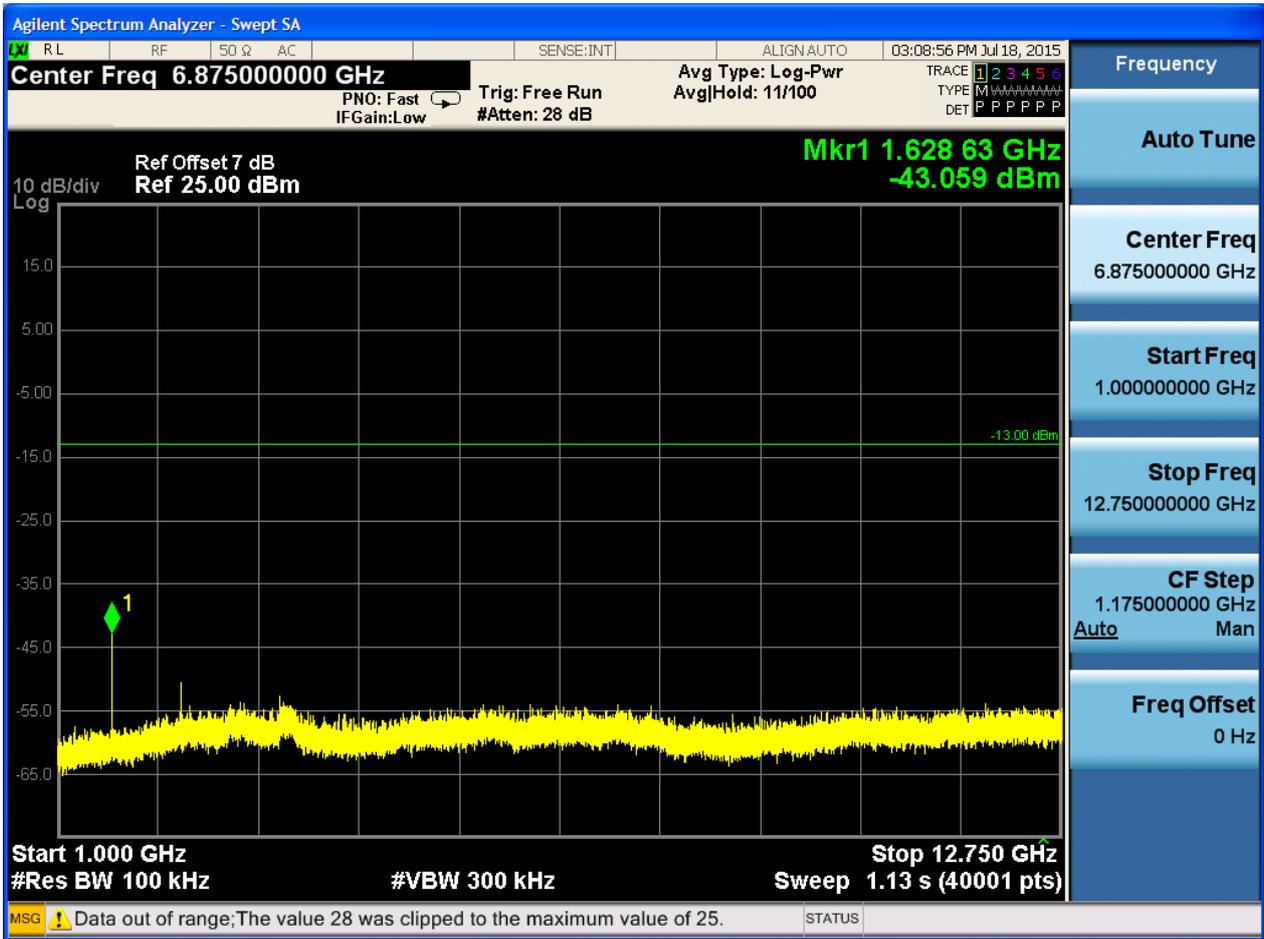
6.1.1.1.1 Test Bandwidth = 1.4

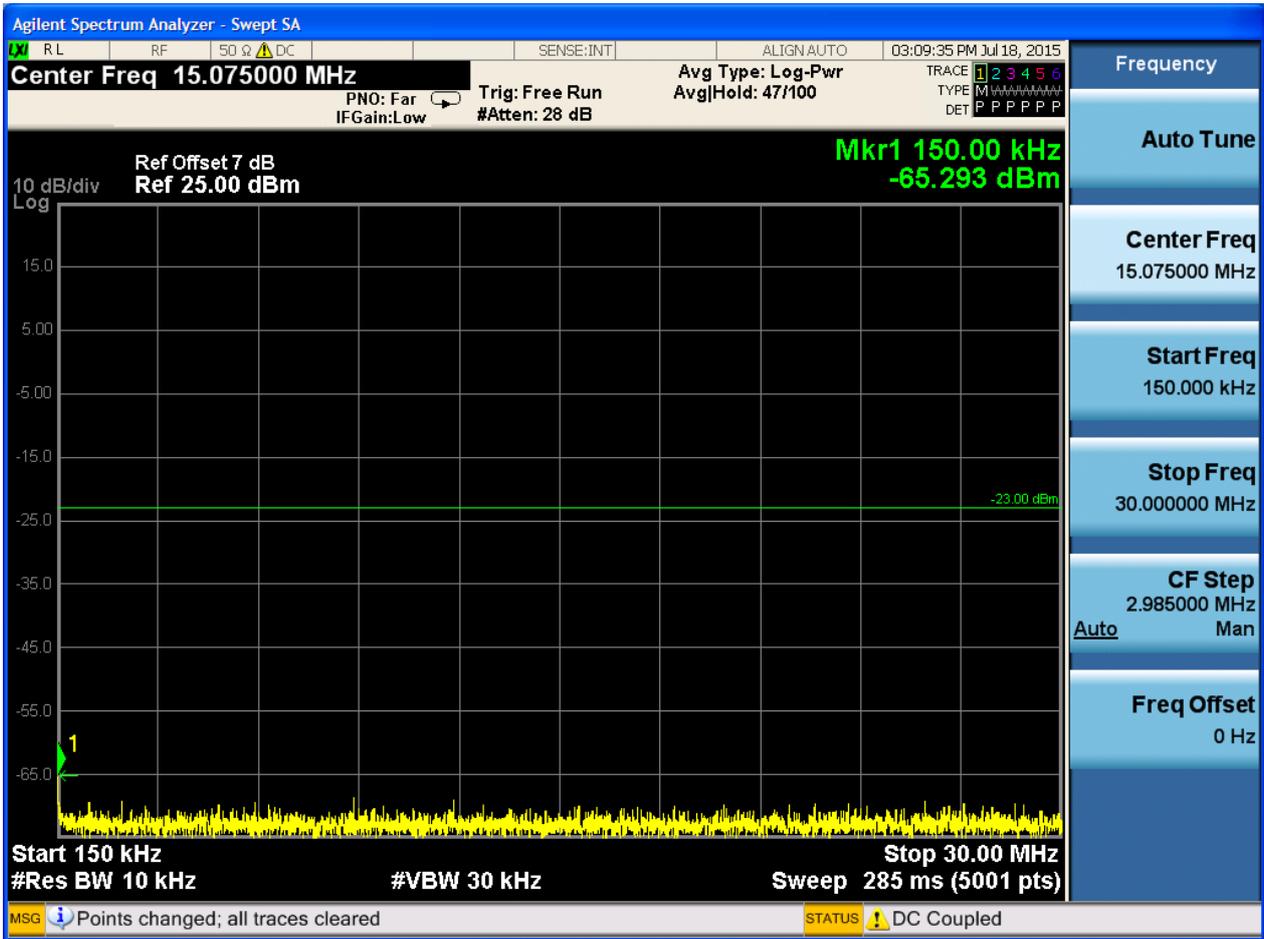
6.1.1.1.1.1 Test Channel = LCH

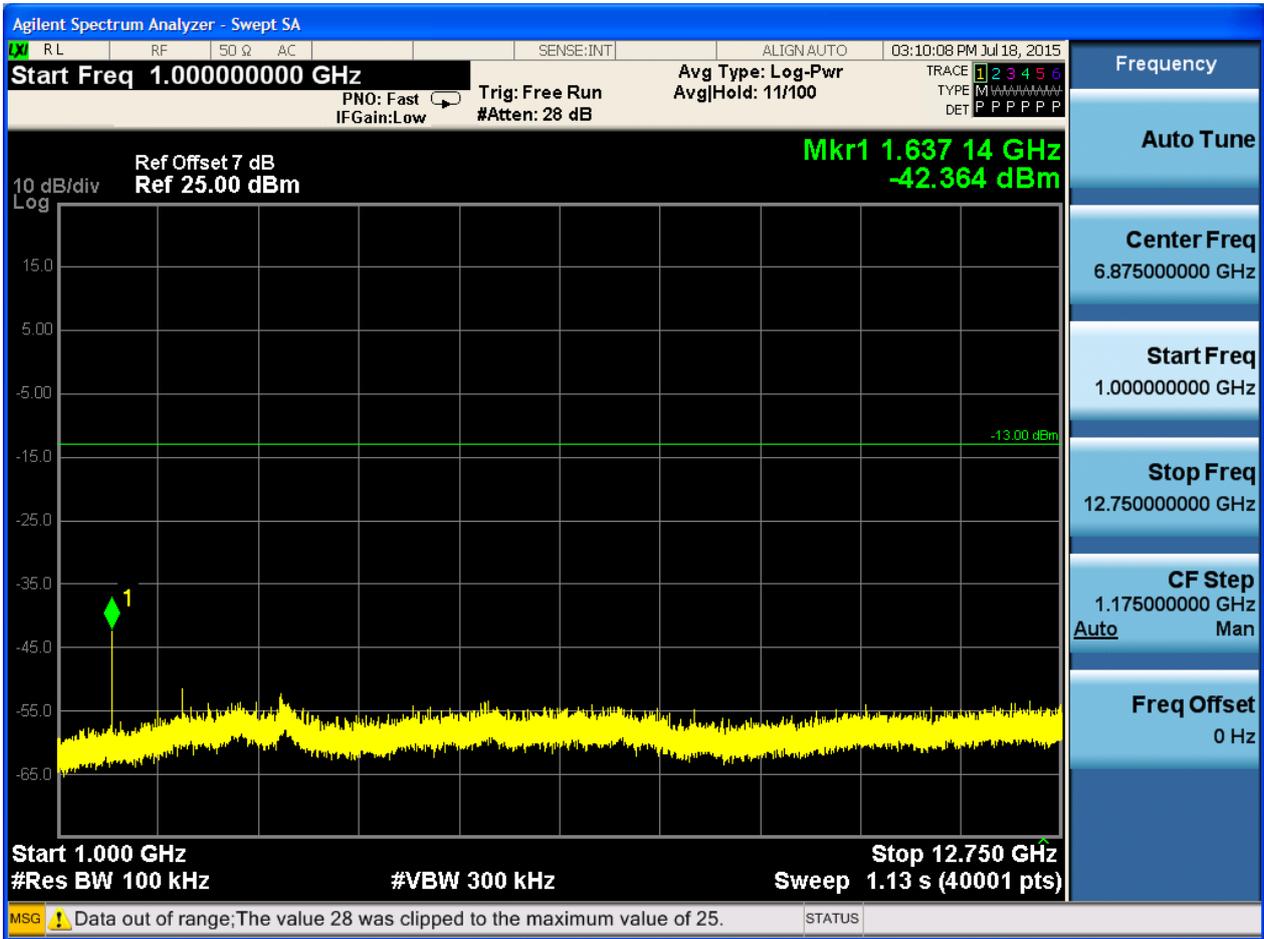
6.1.1.1.1.1.1 Test RB = RB1#0







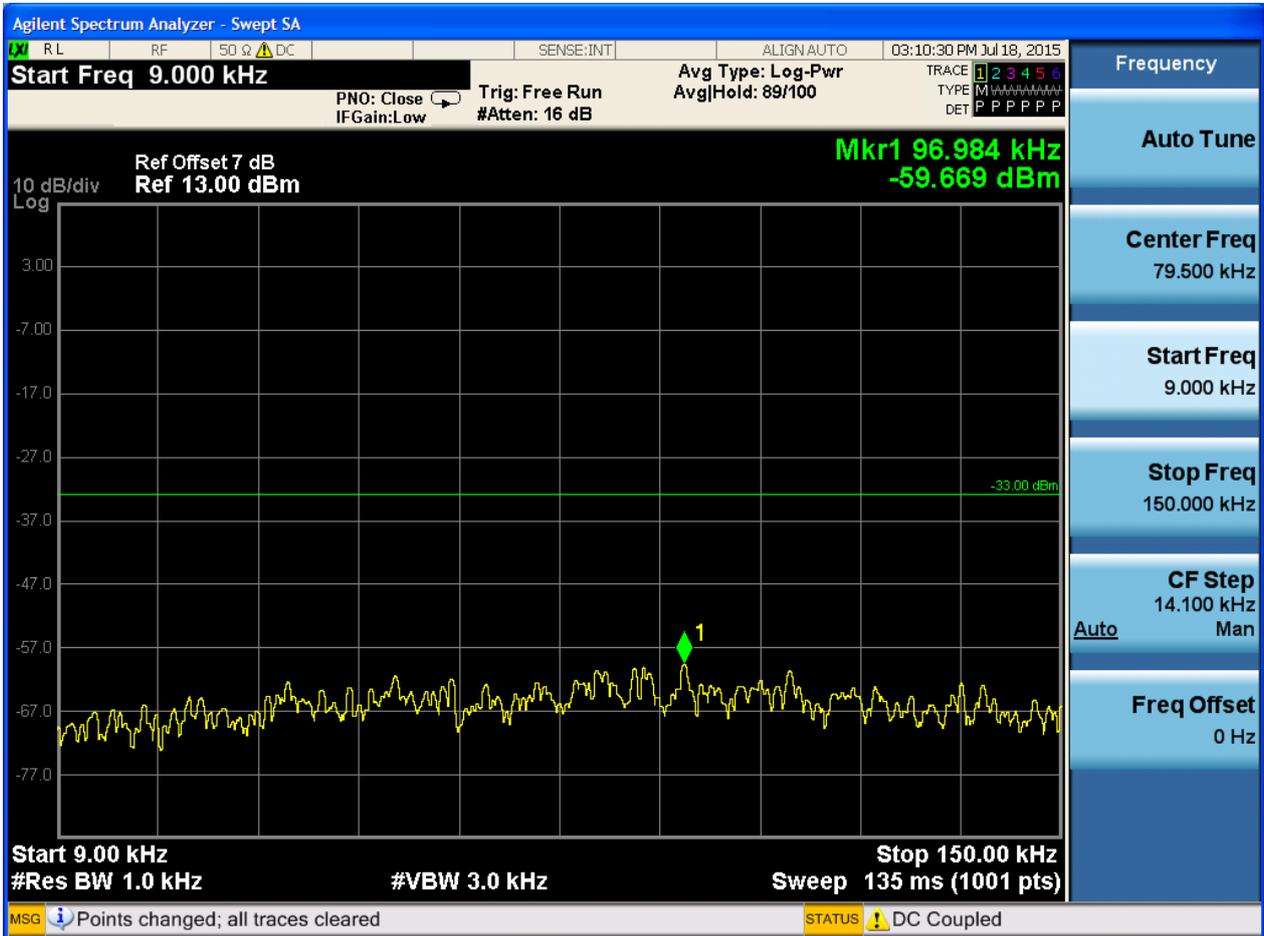


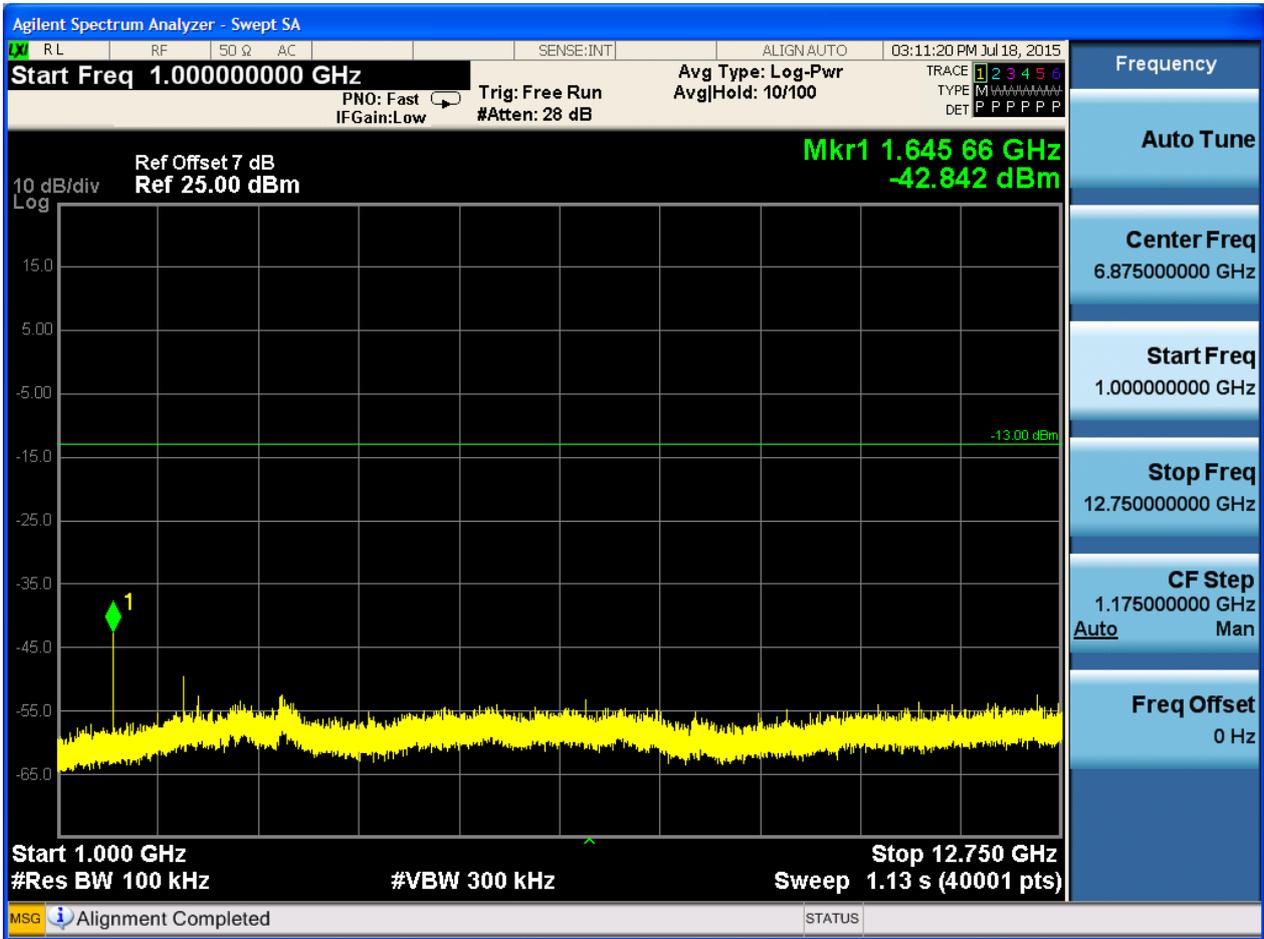


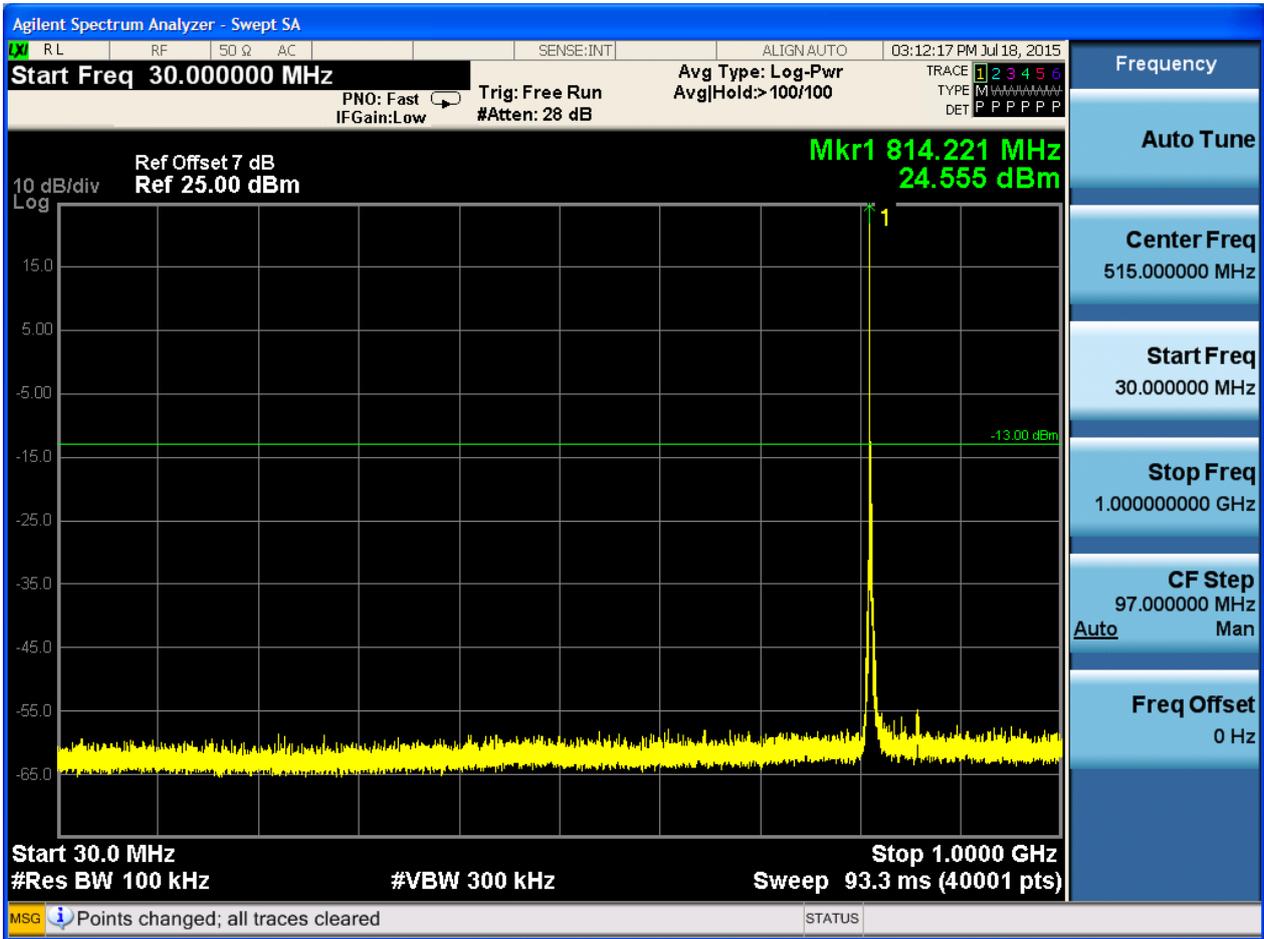


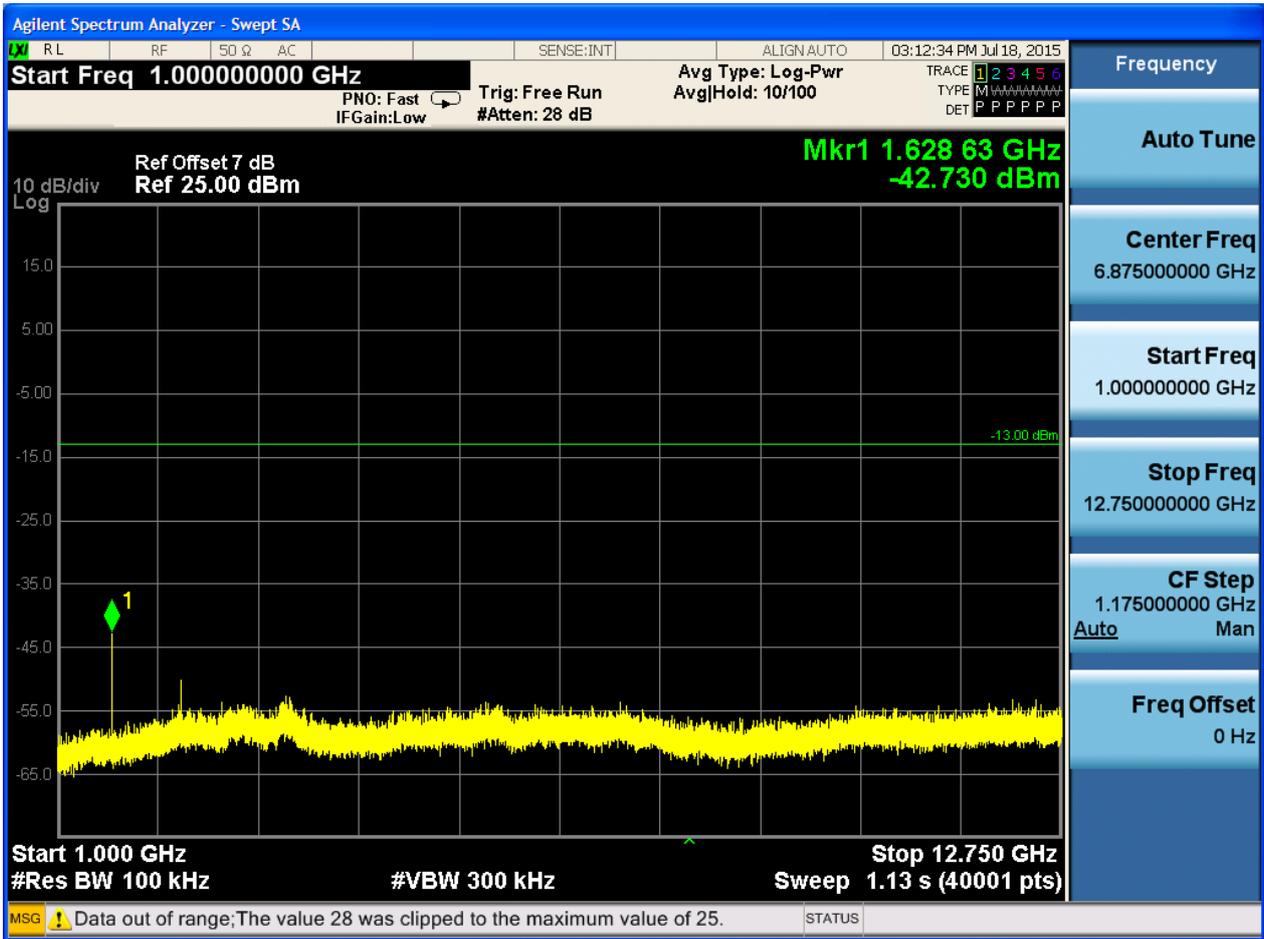
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



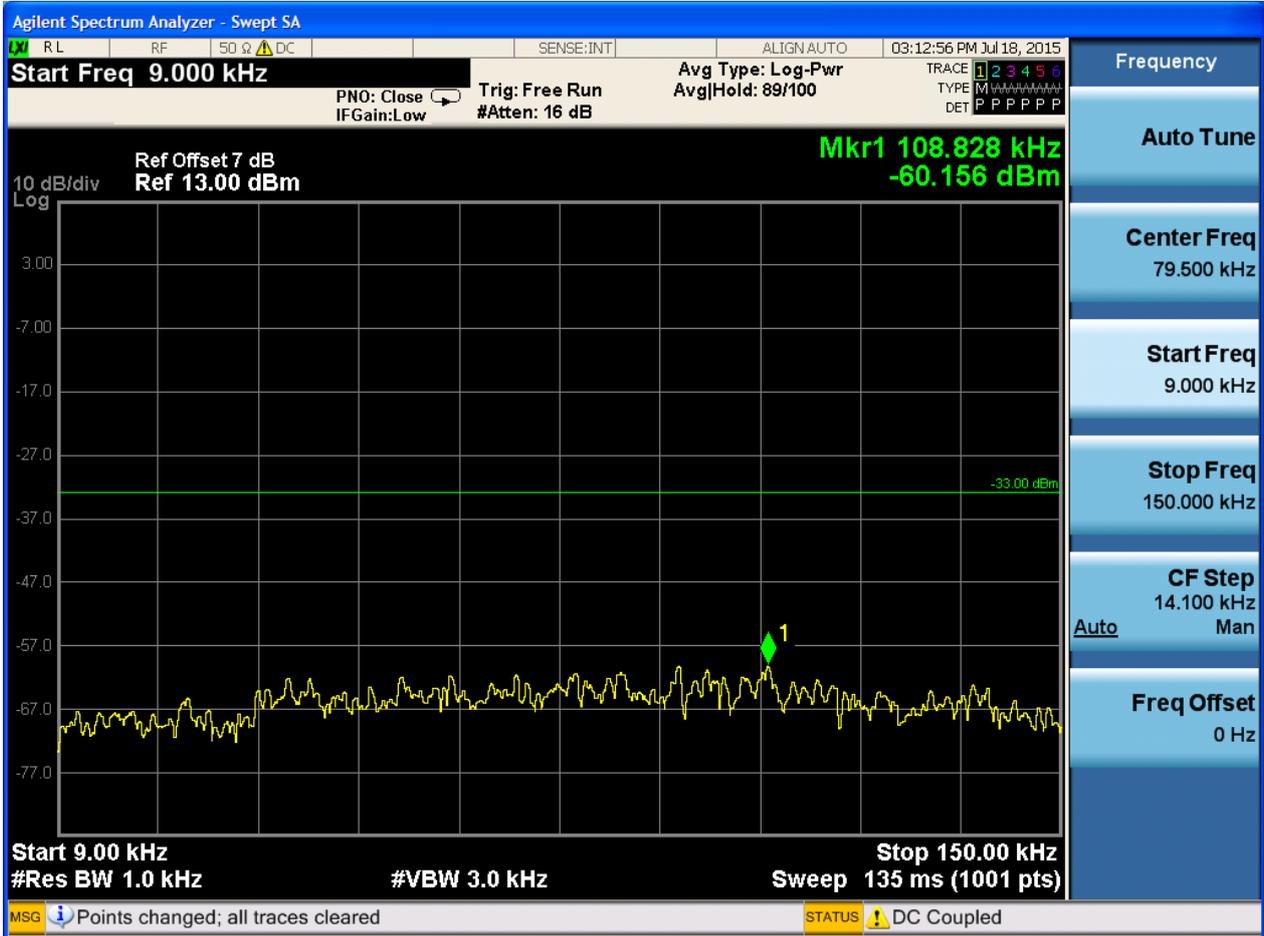


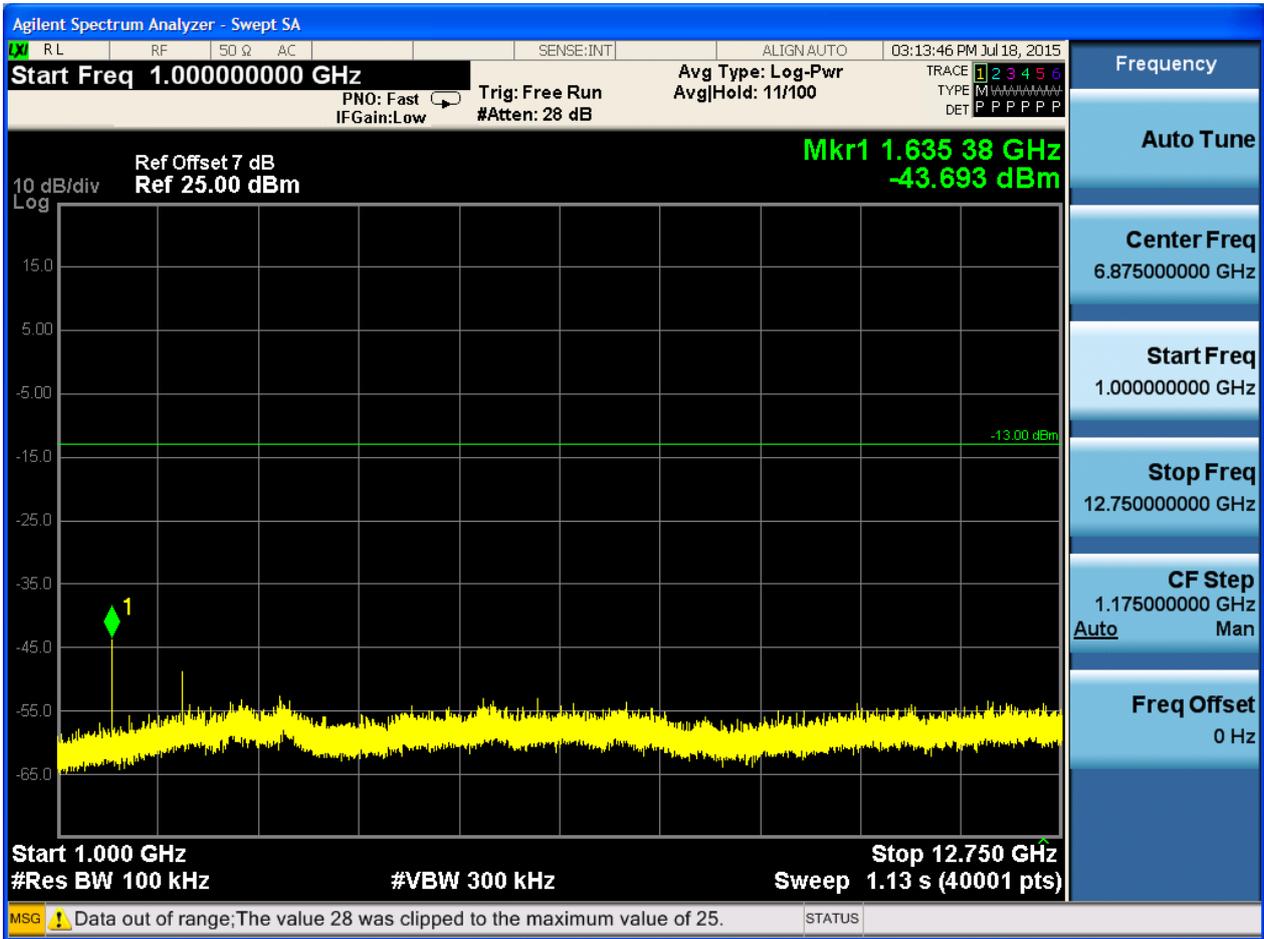




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

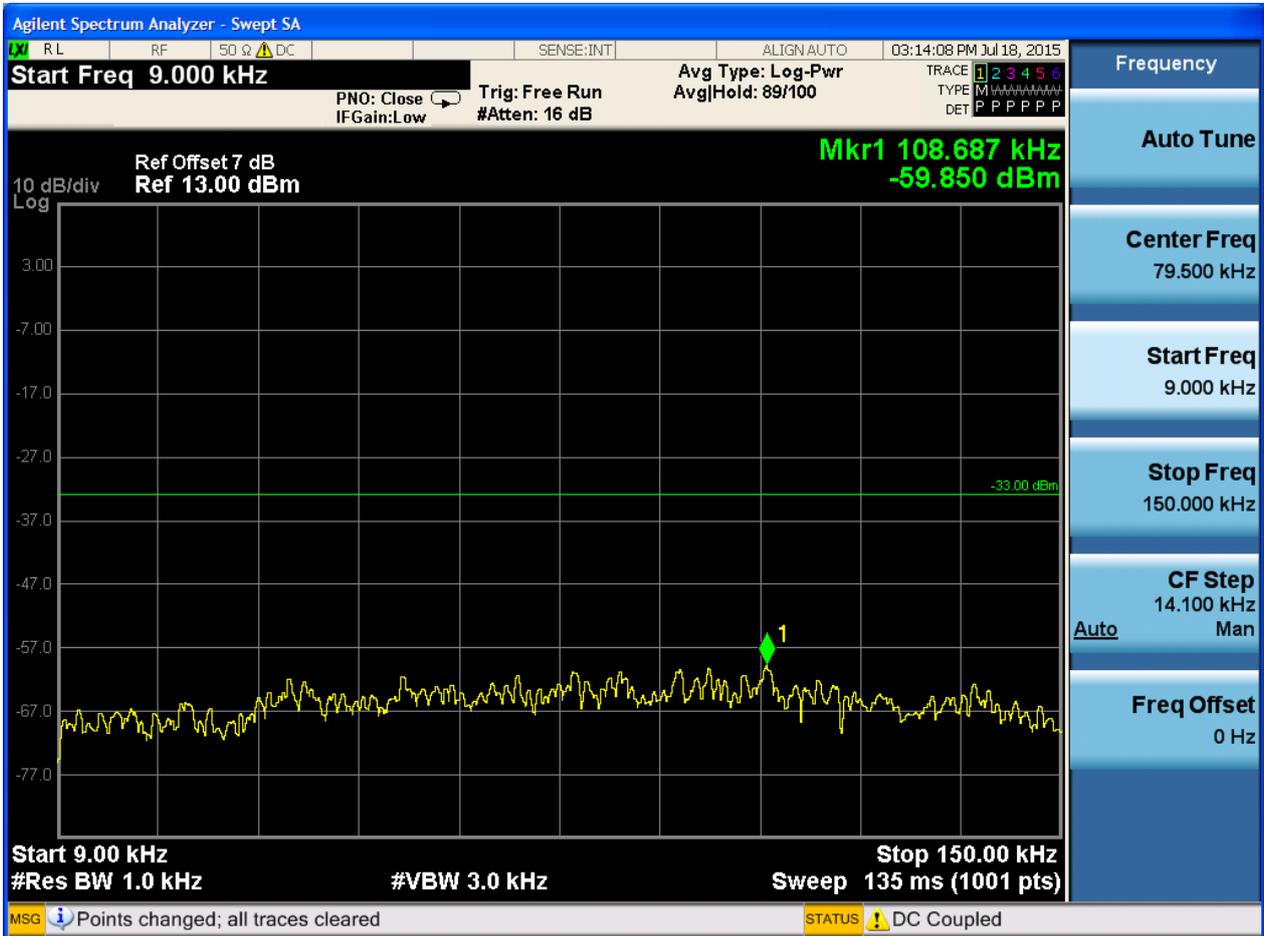


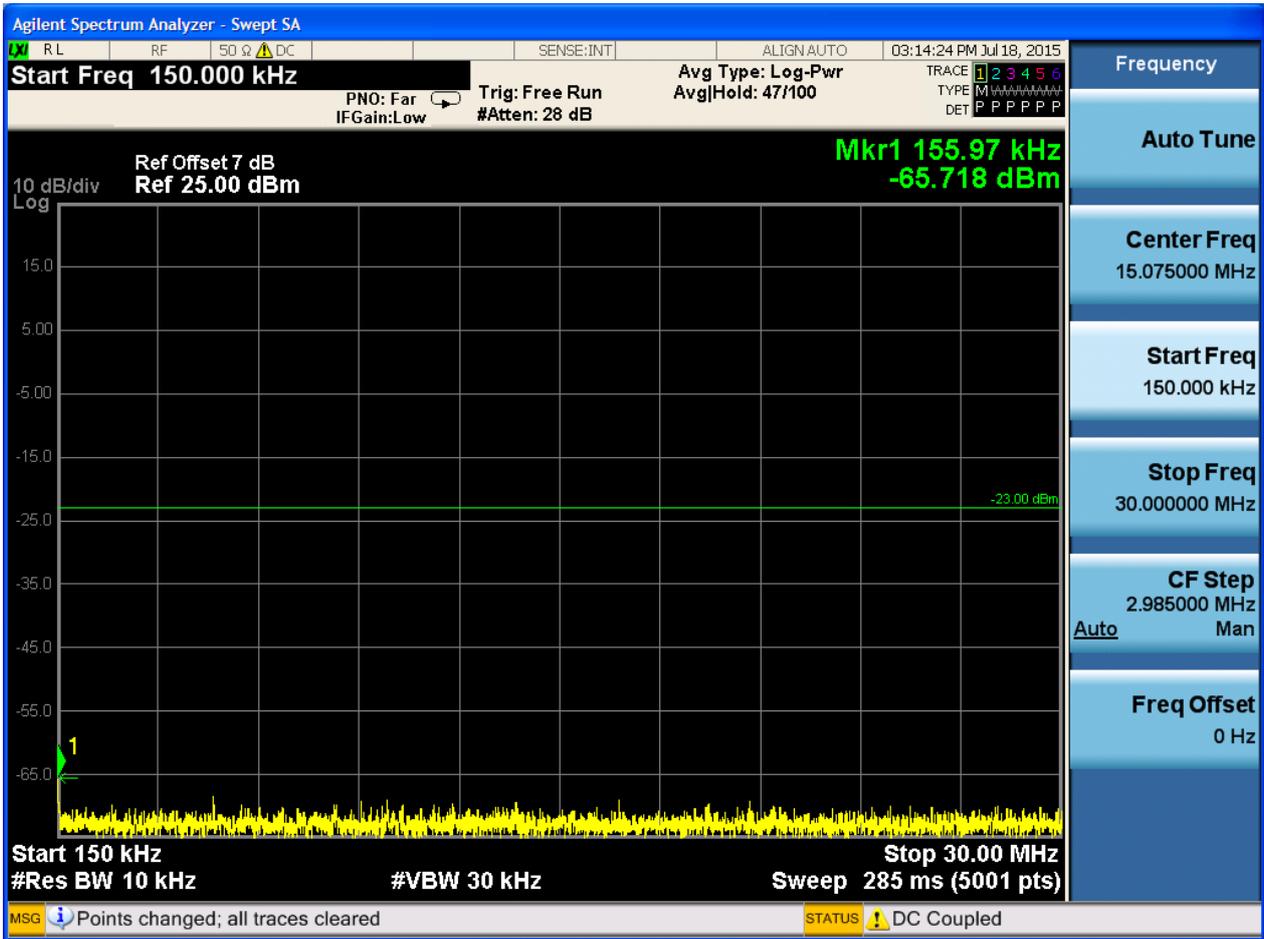


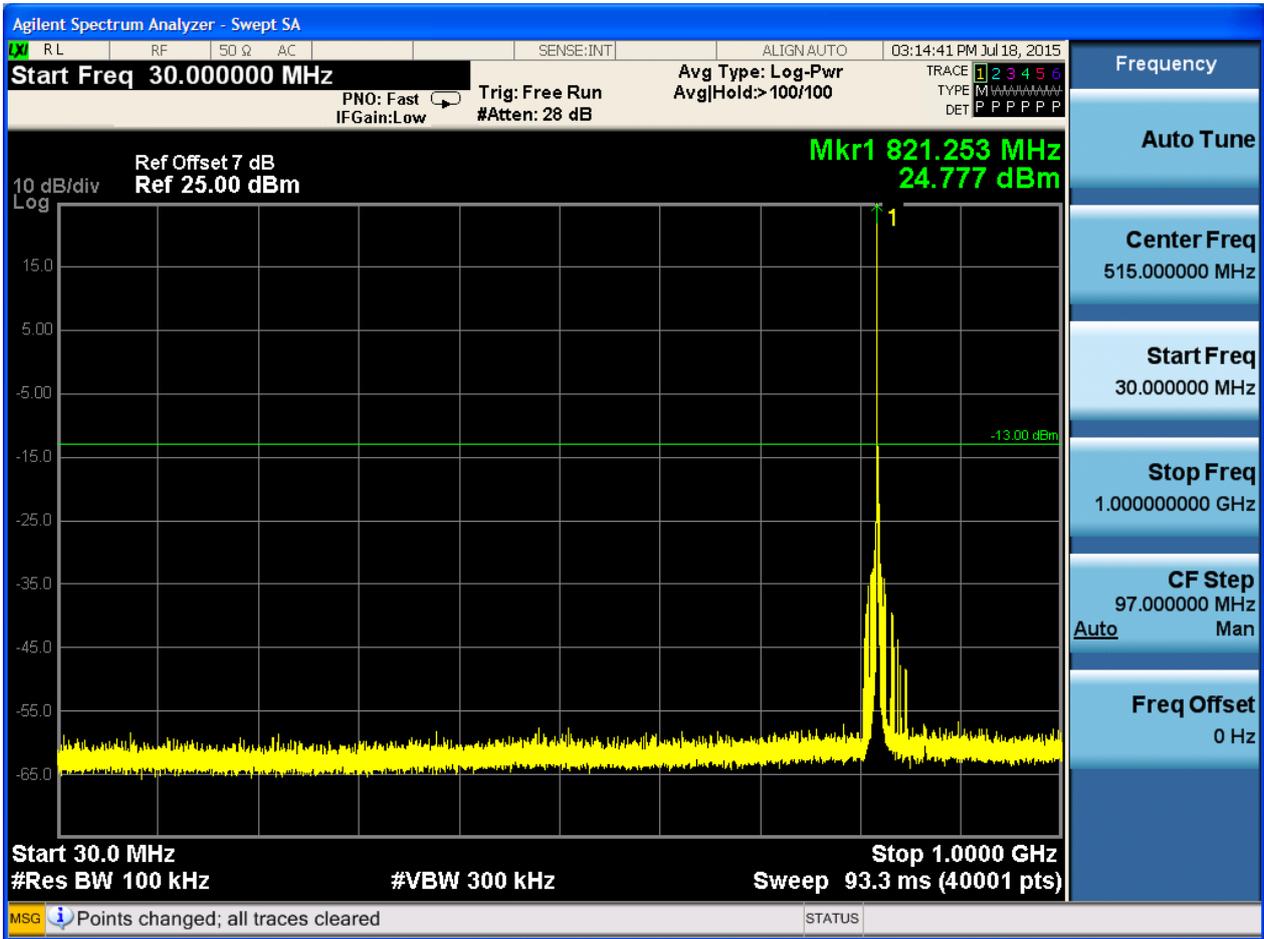


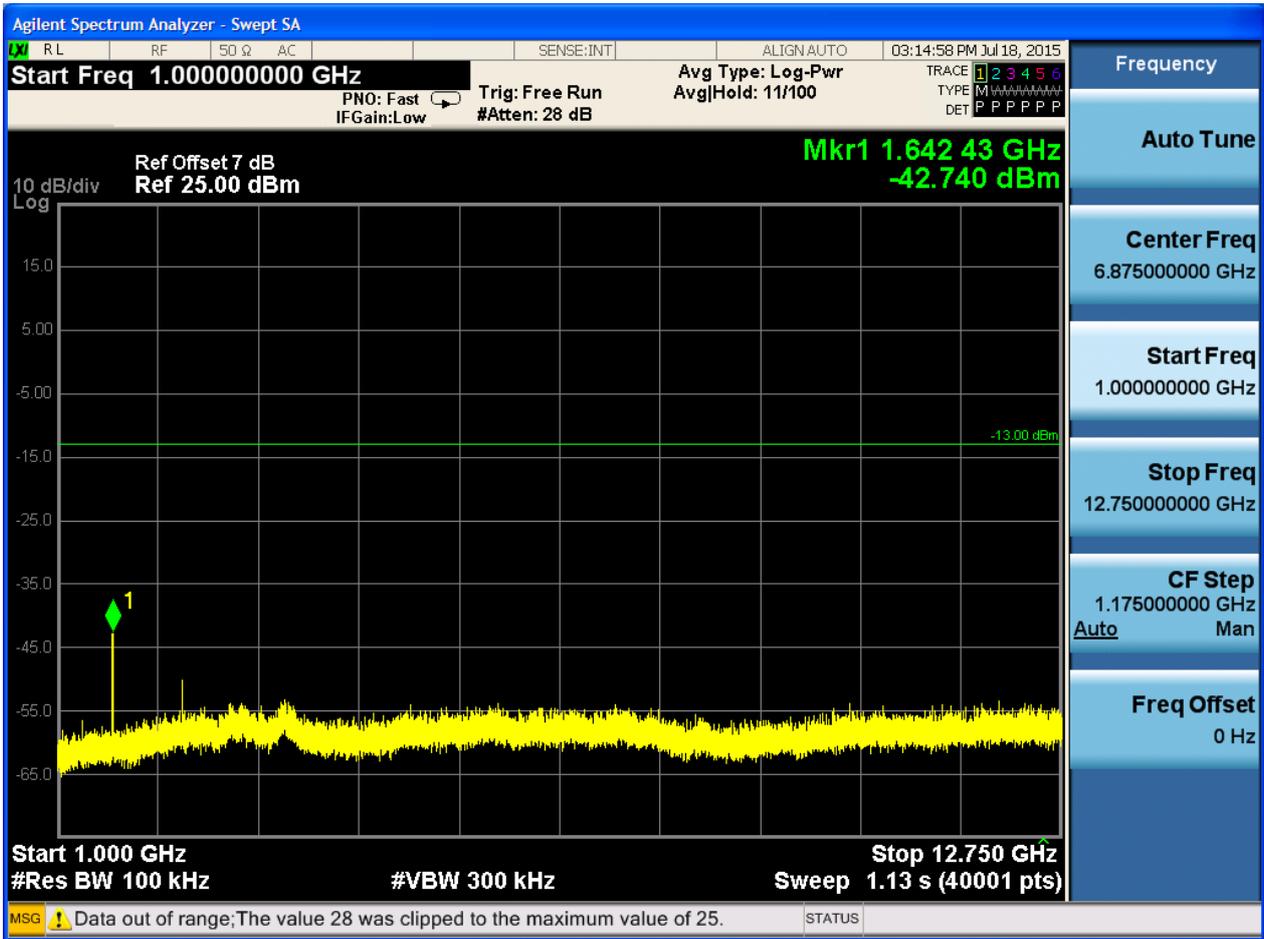
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







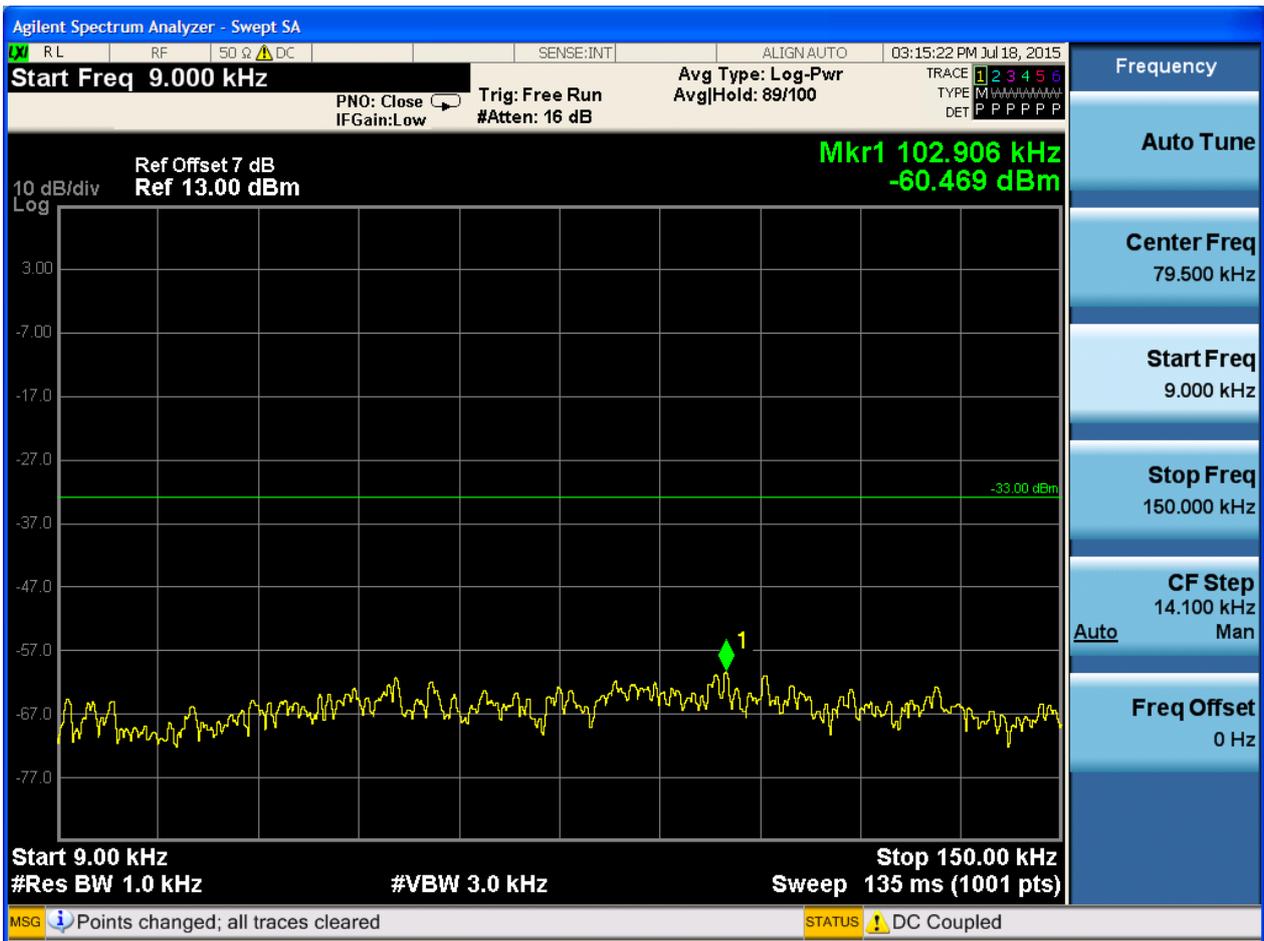


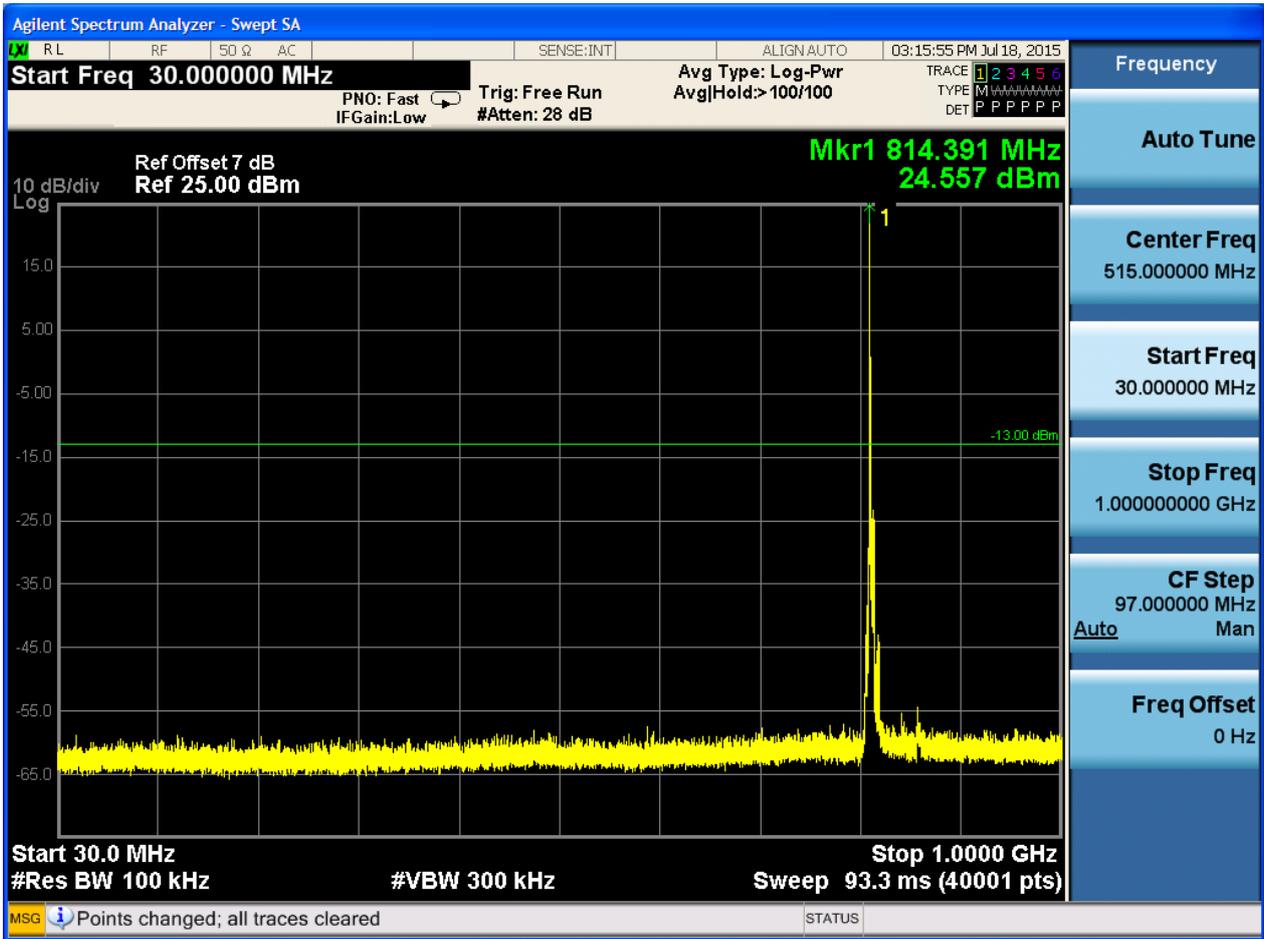


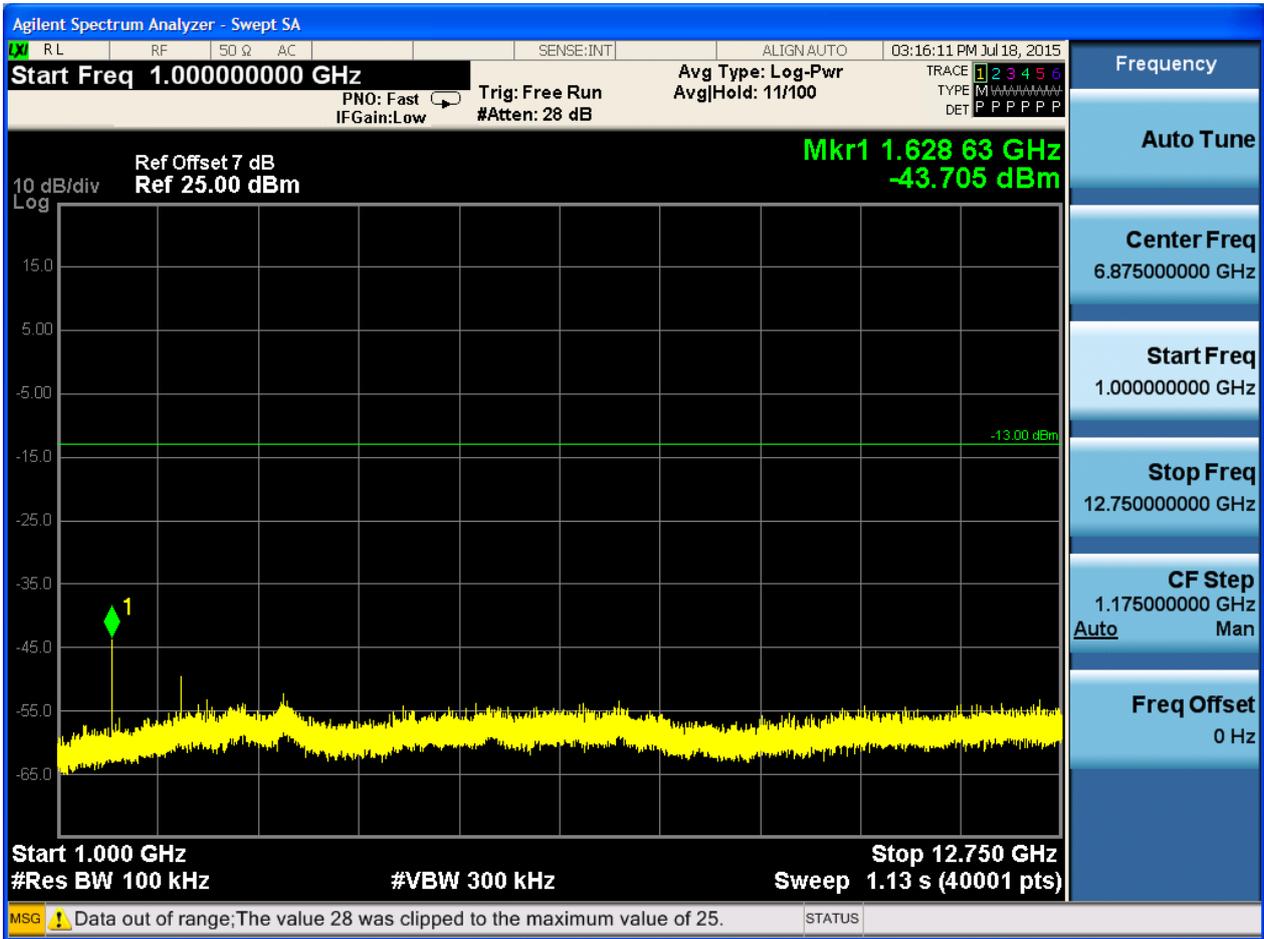
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



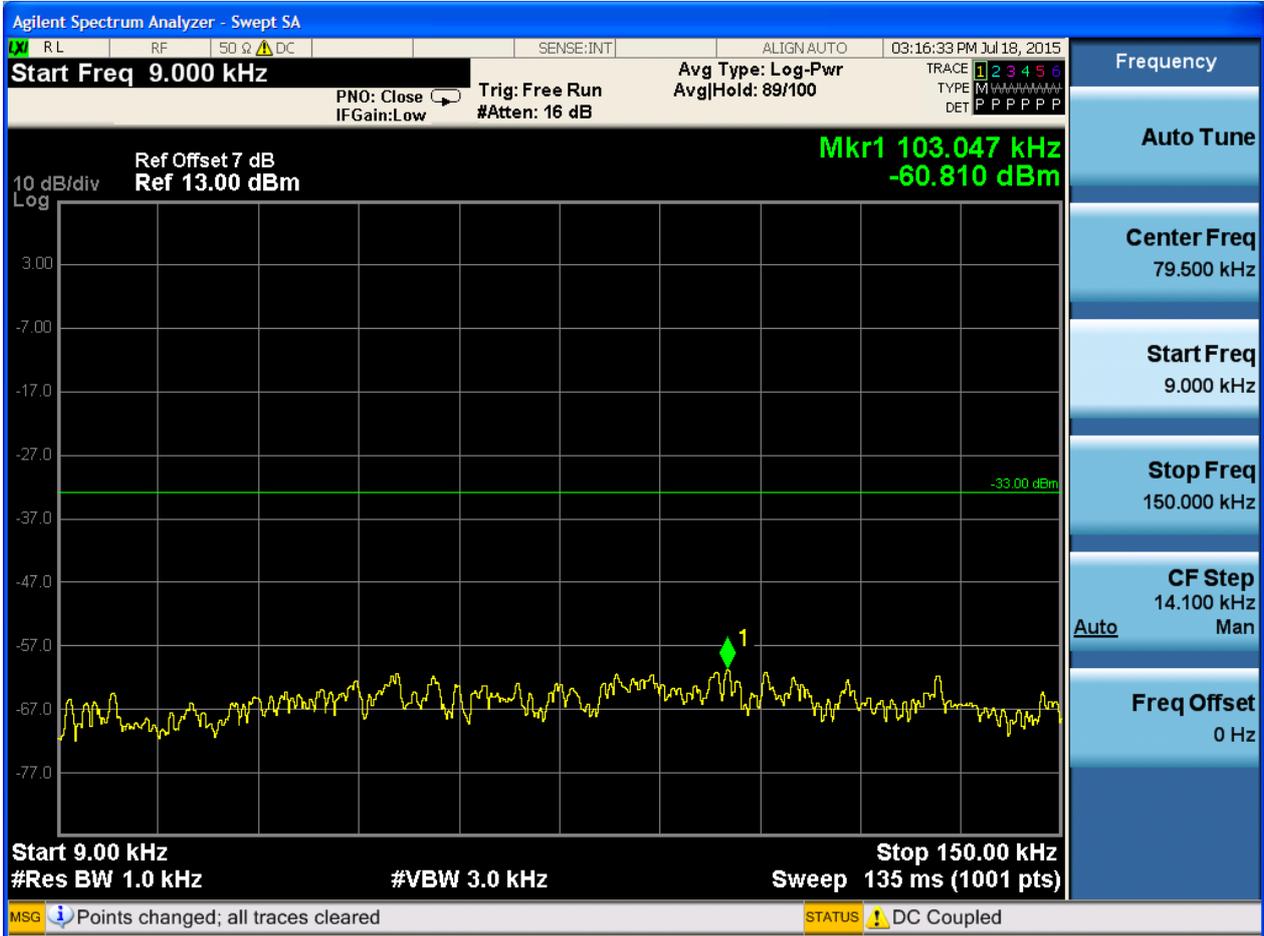


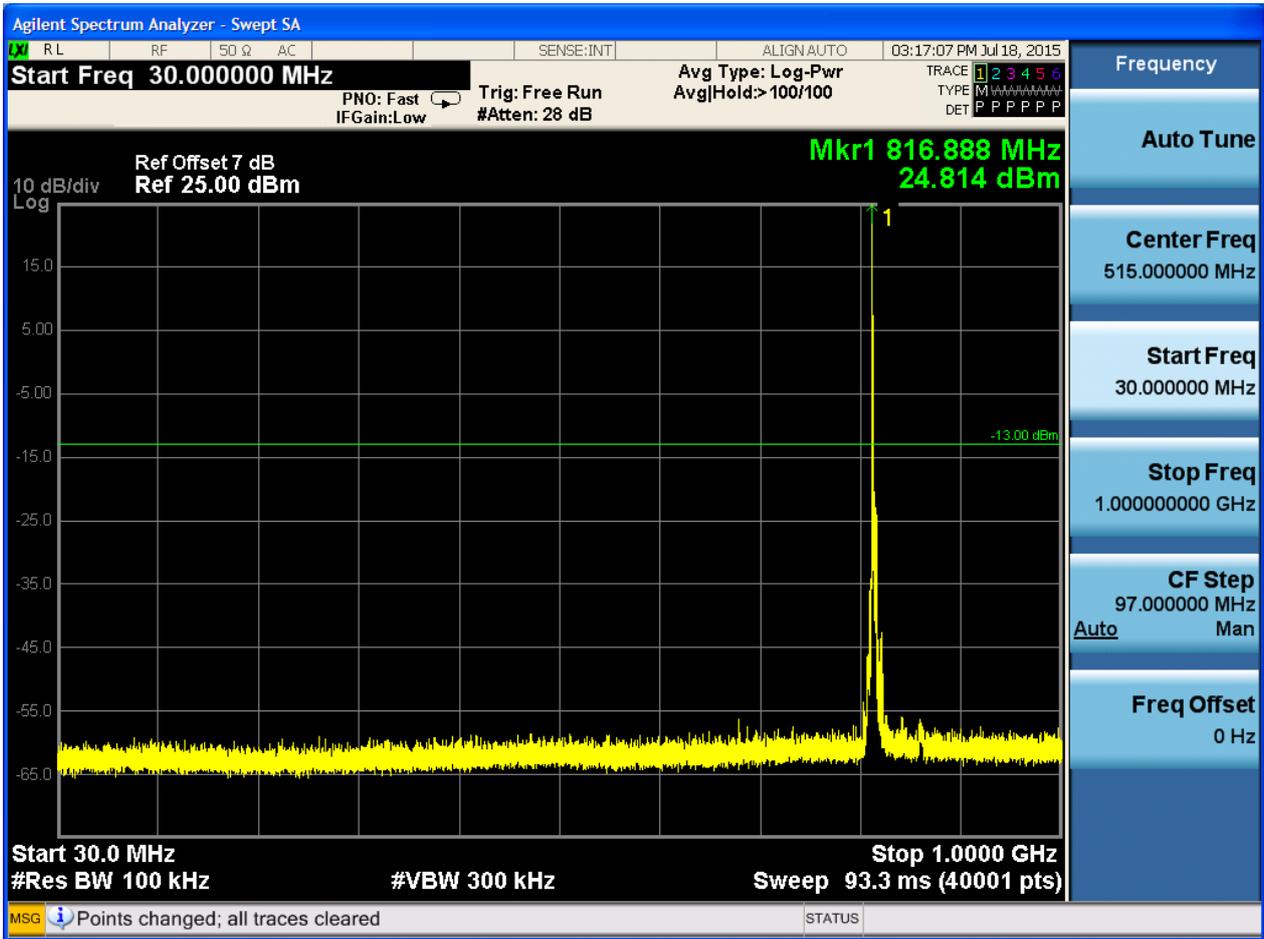


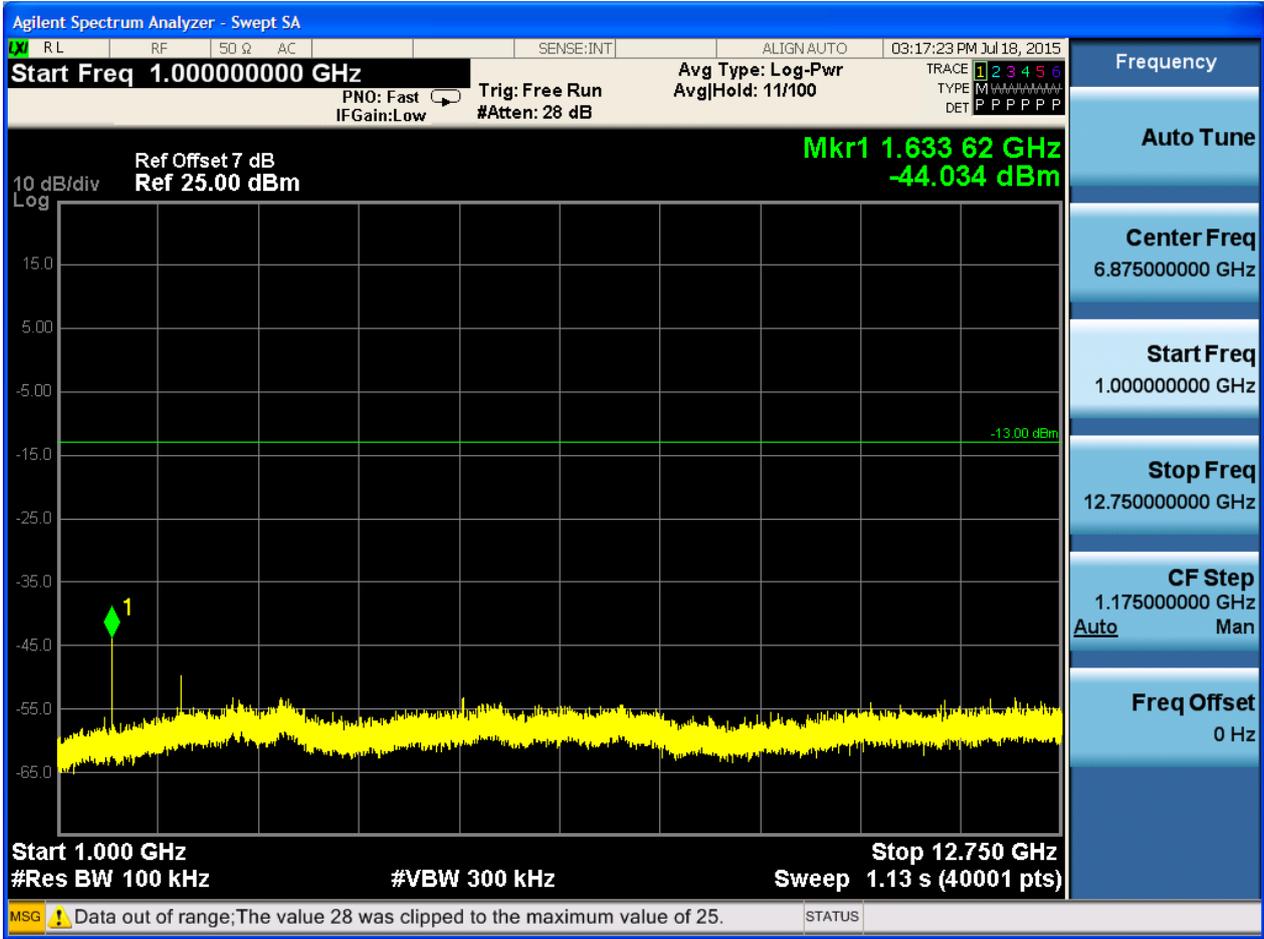


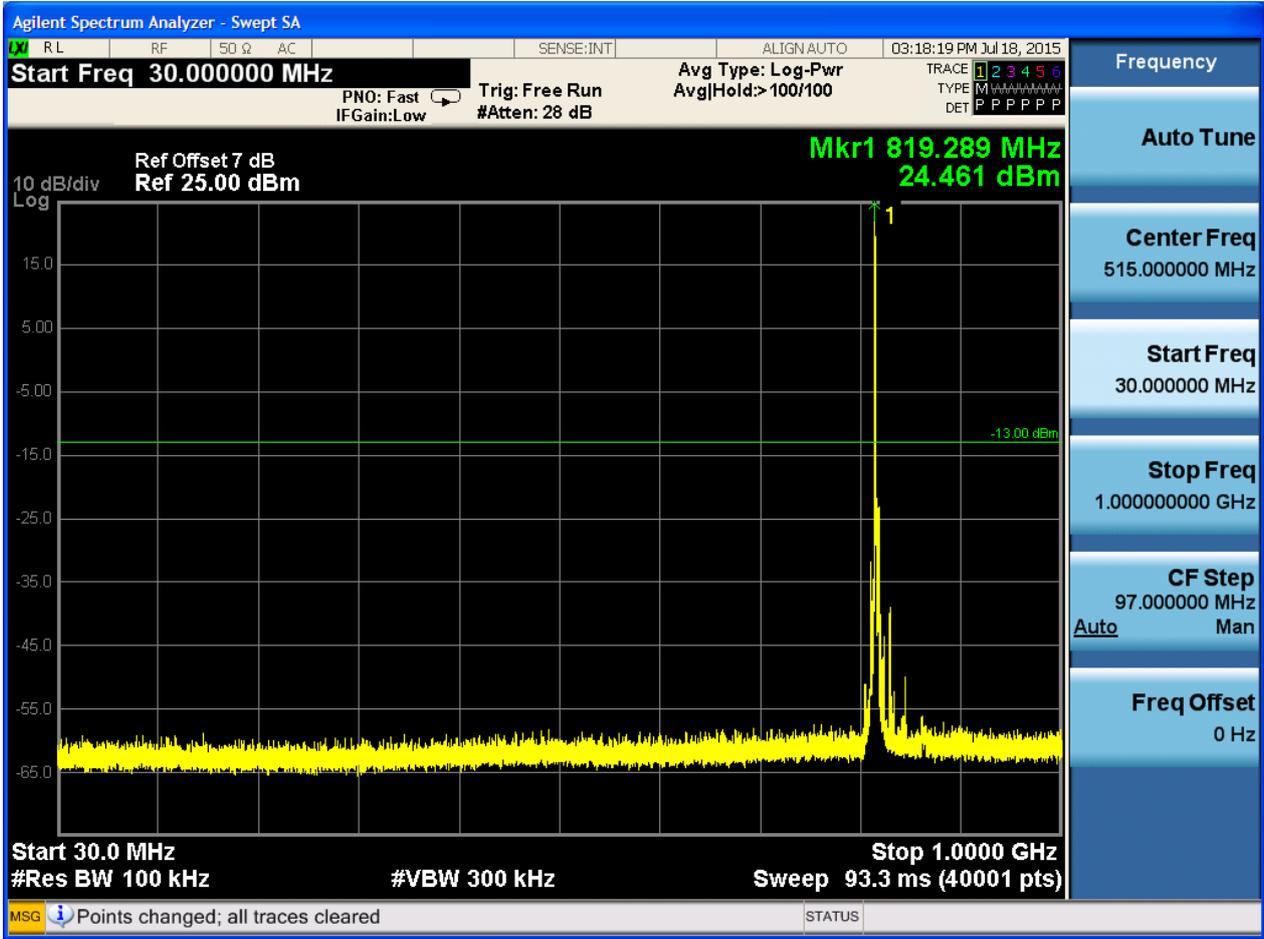
6.1.1.1.3.2 Test Channel = MCH

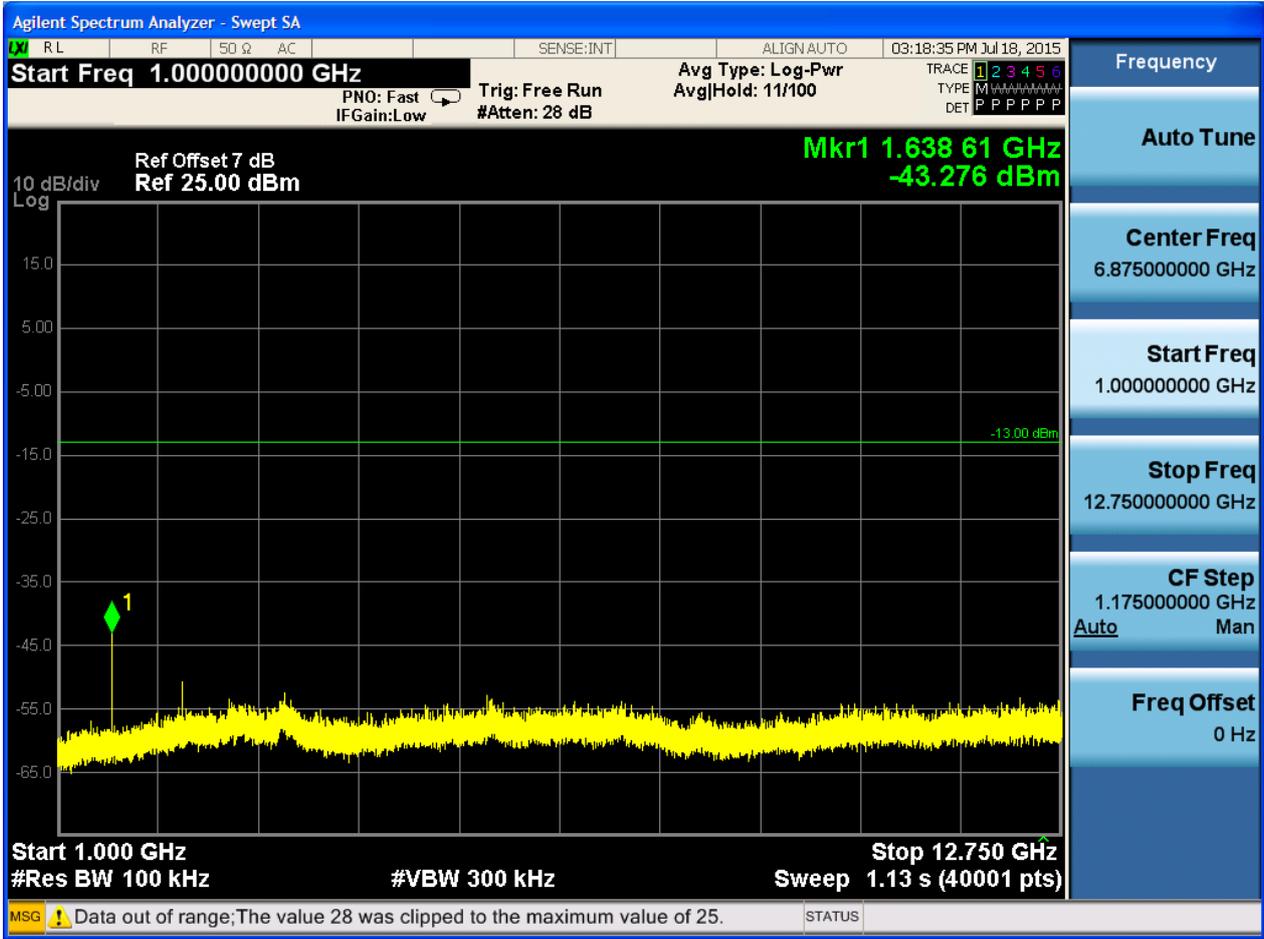
6.1.1.1.3.2.1 Test RB = RB1#0







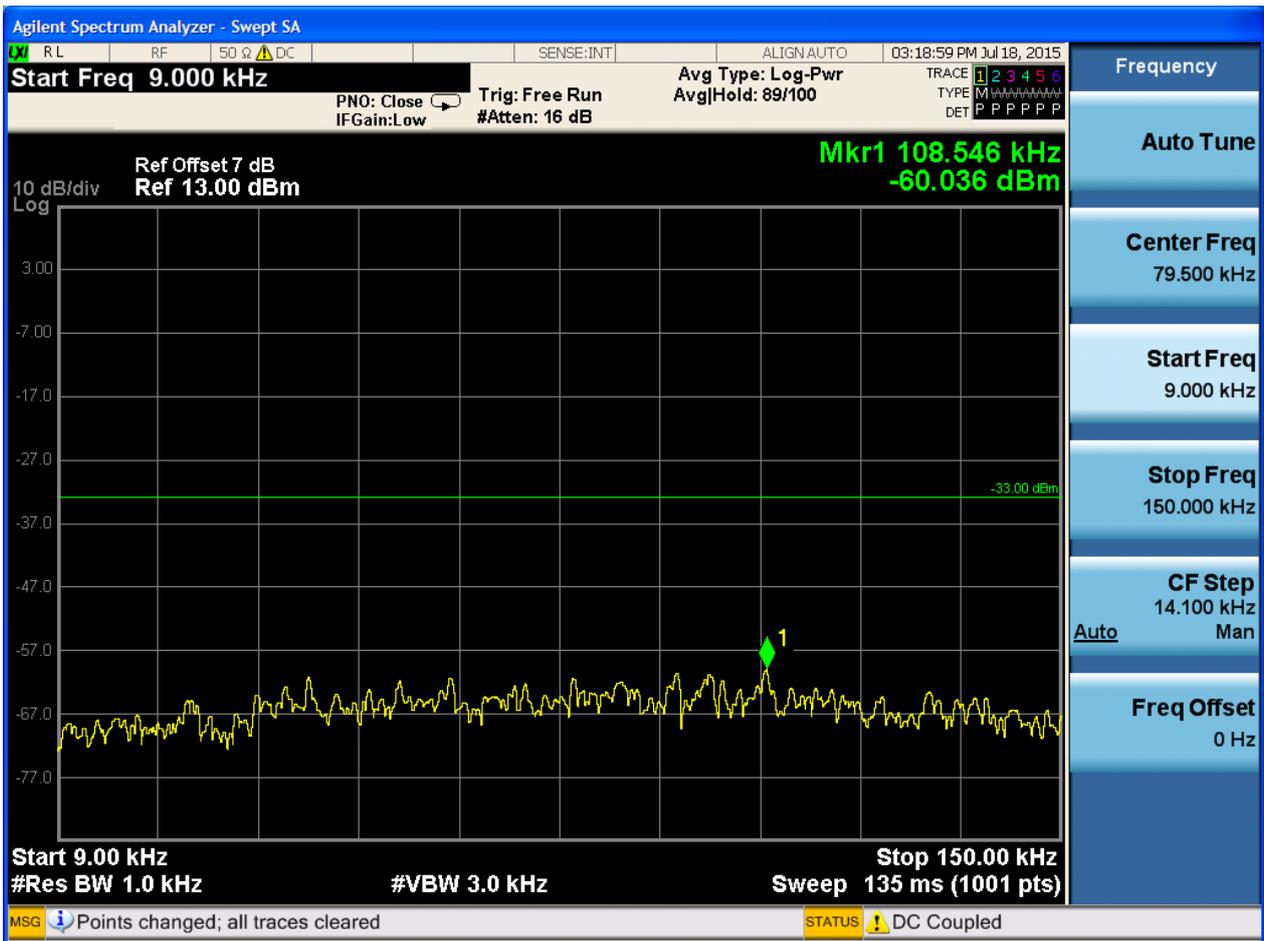


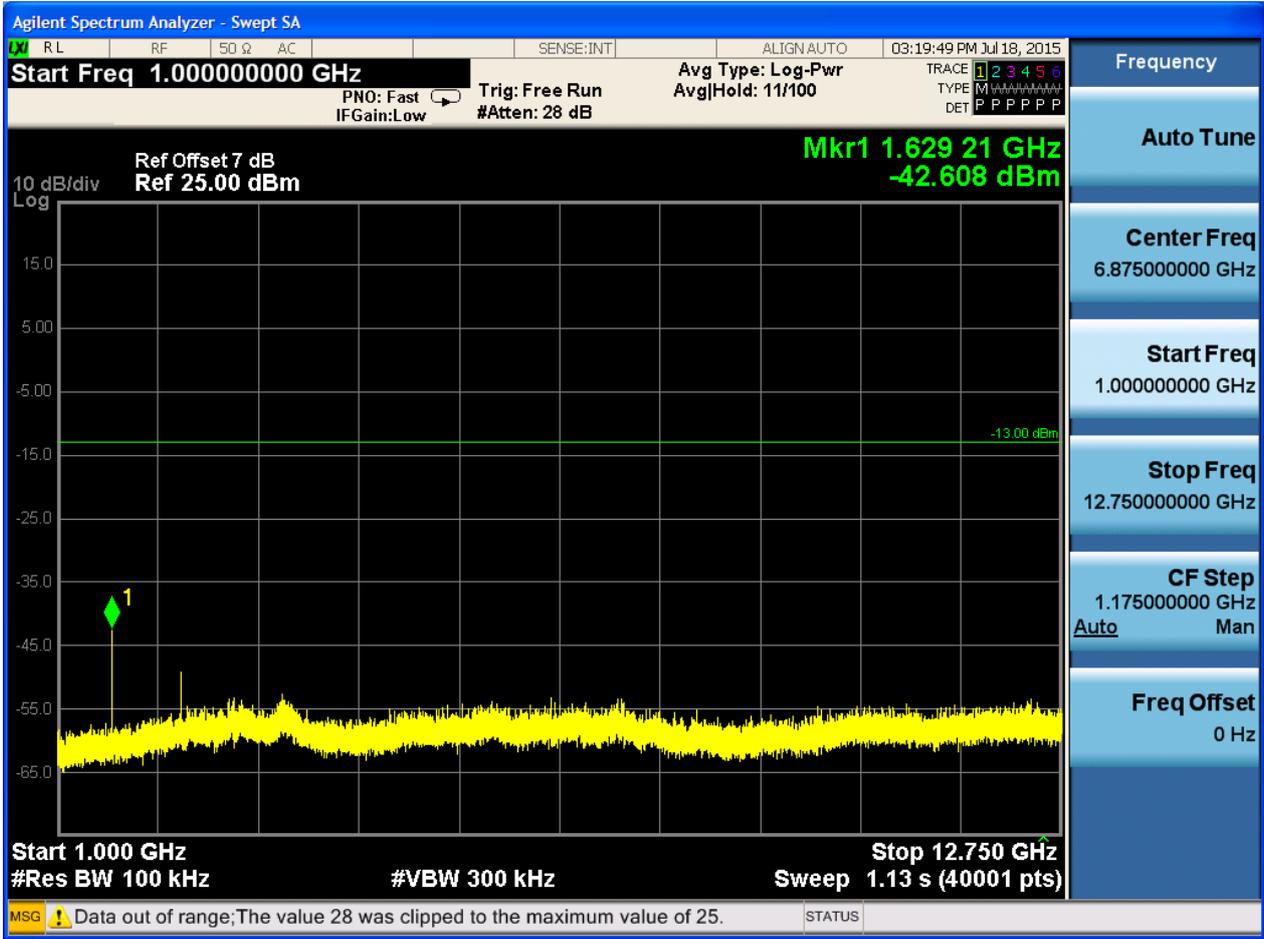


6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





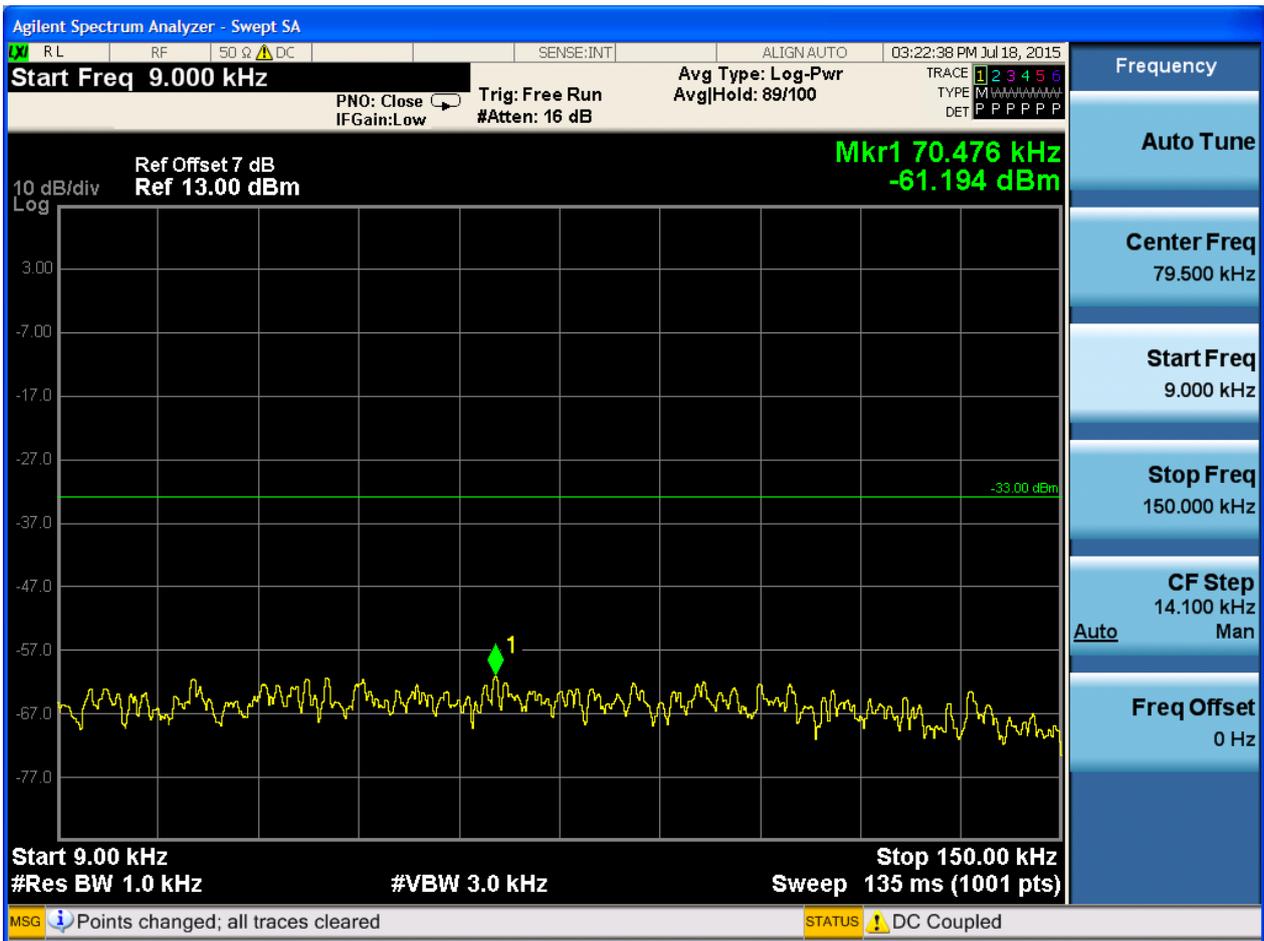


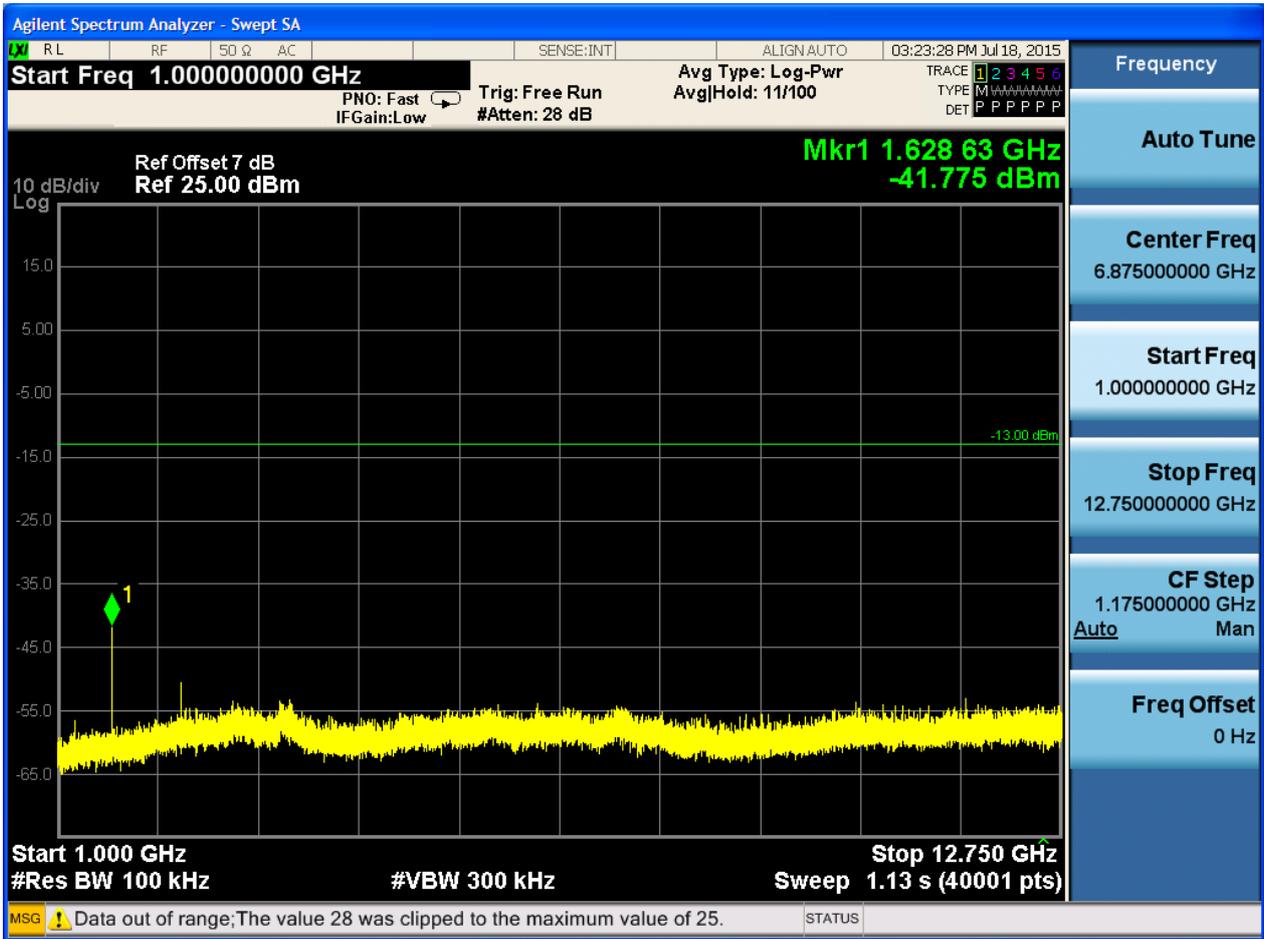
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

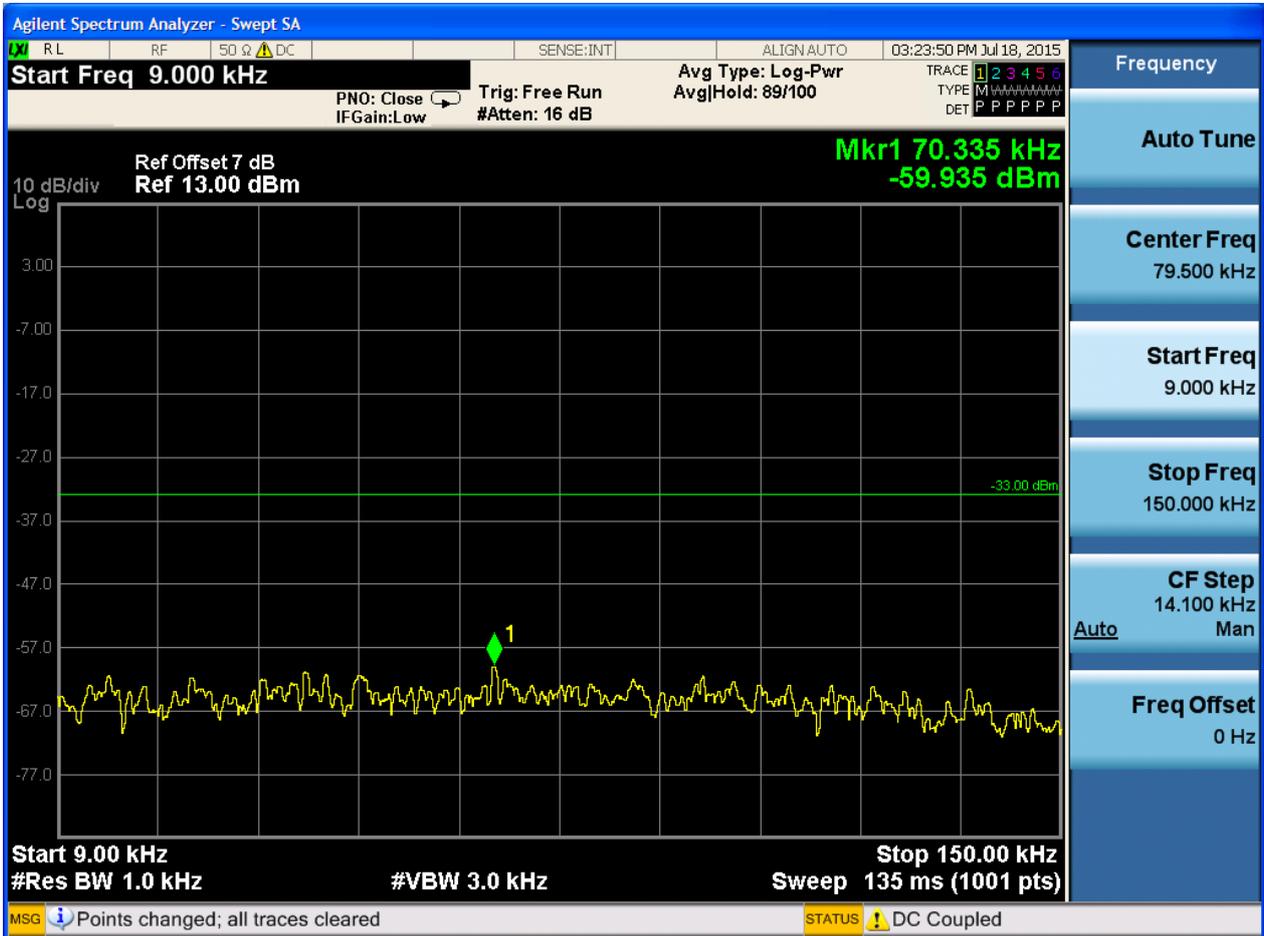


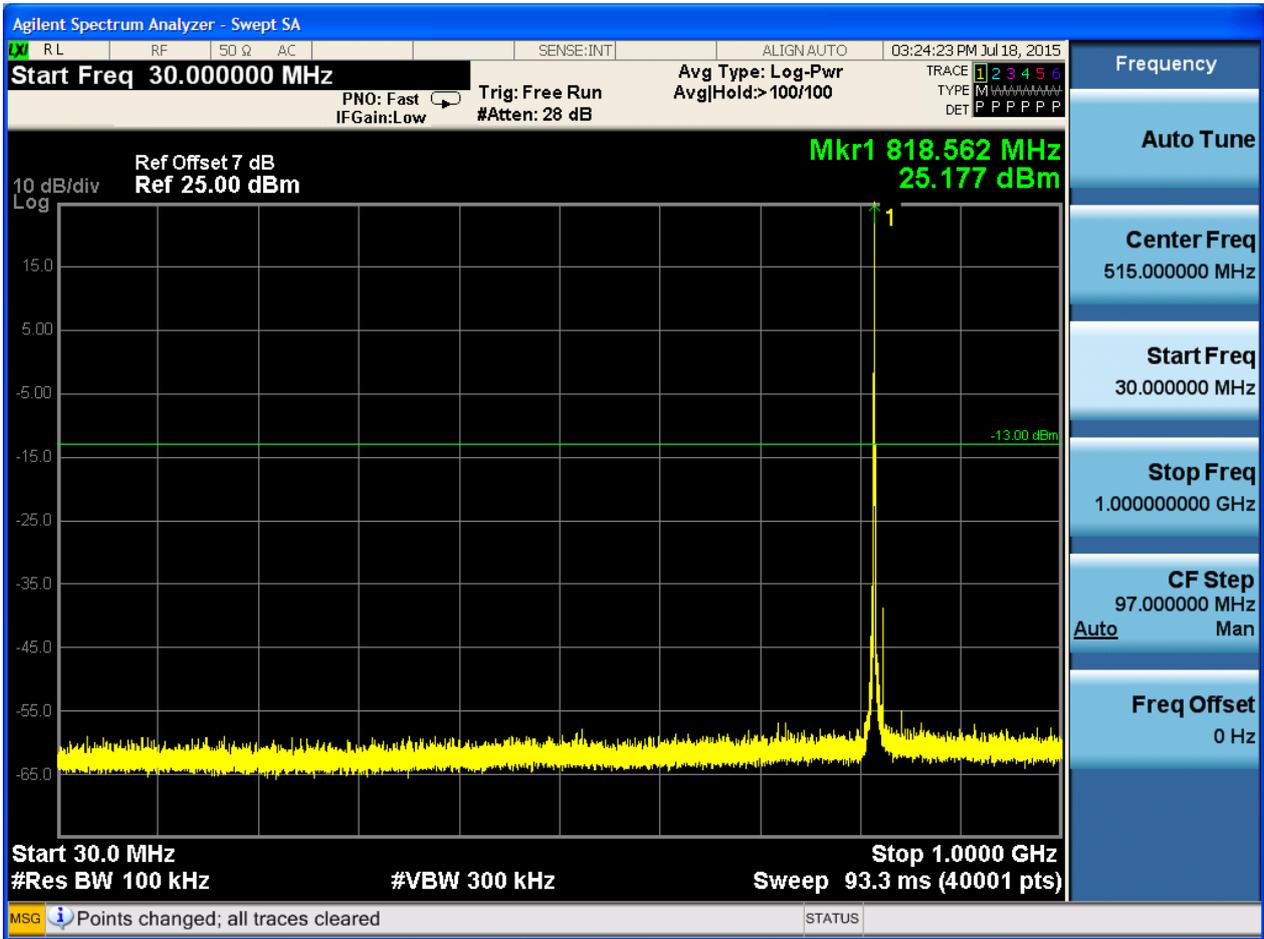


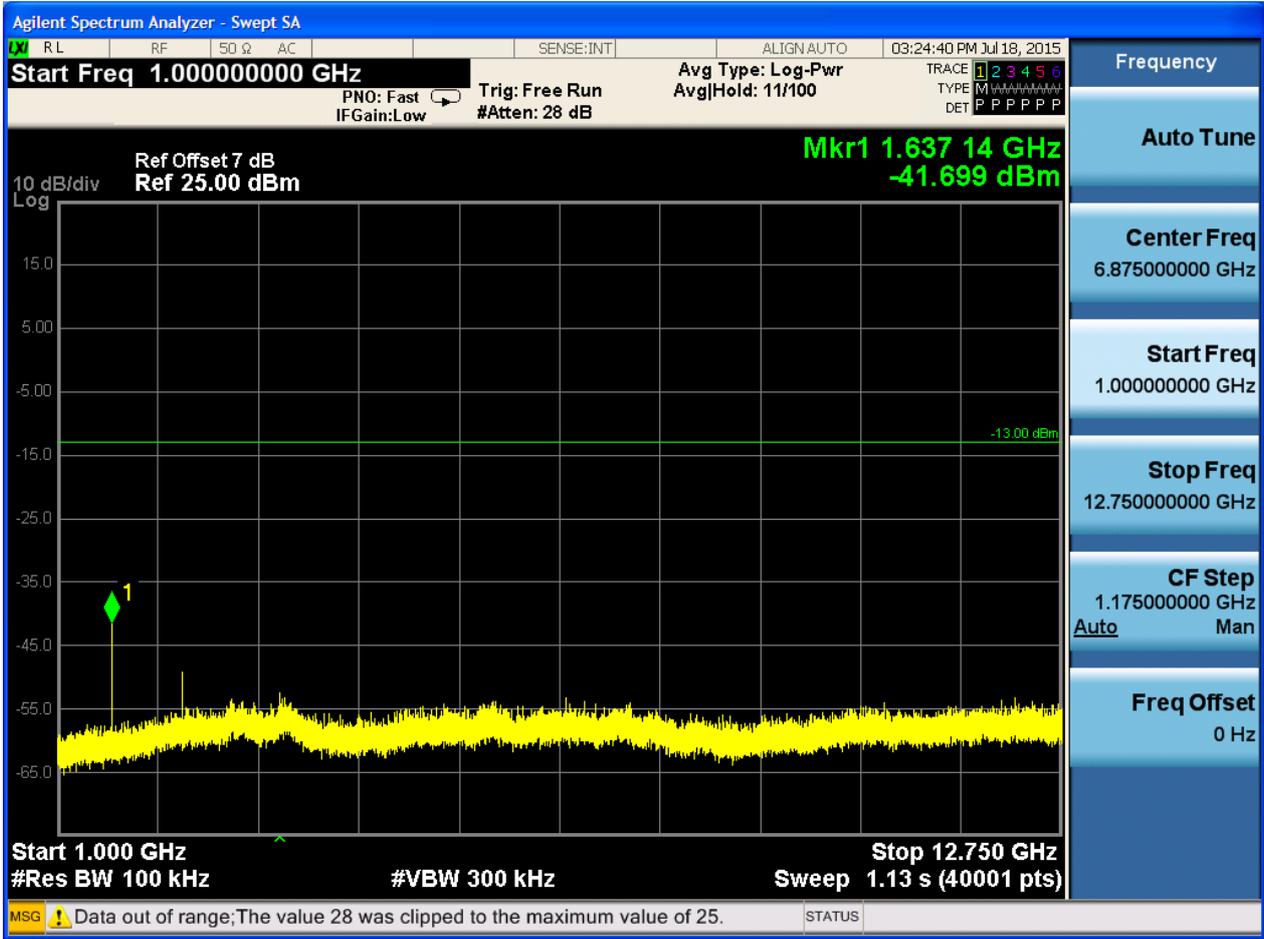


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



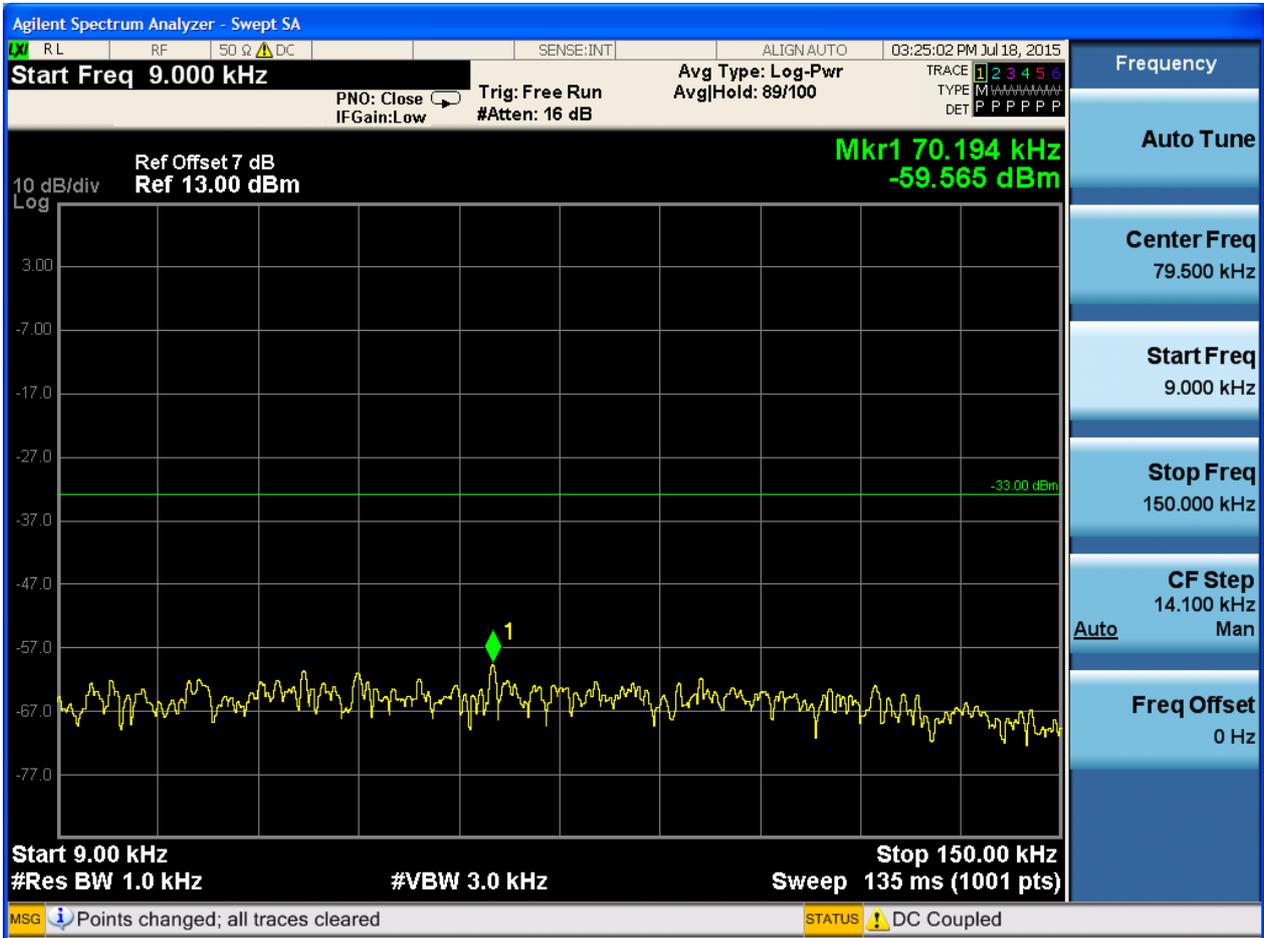


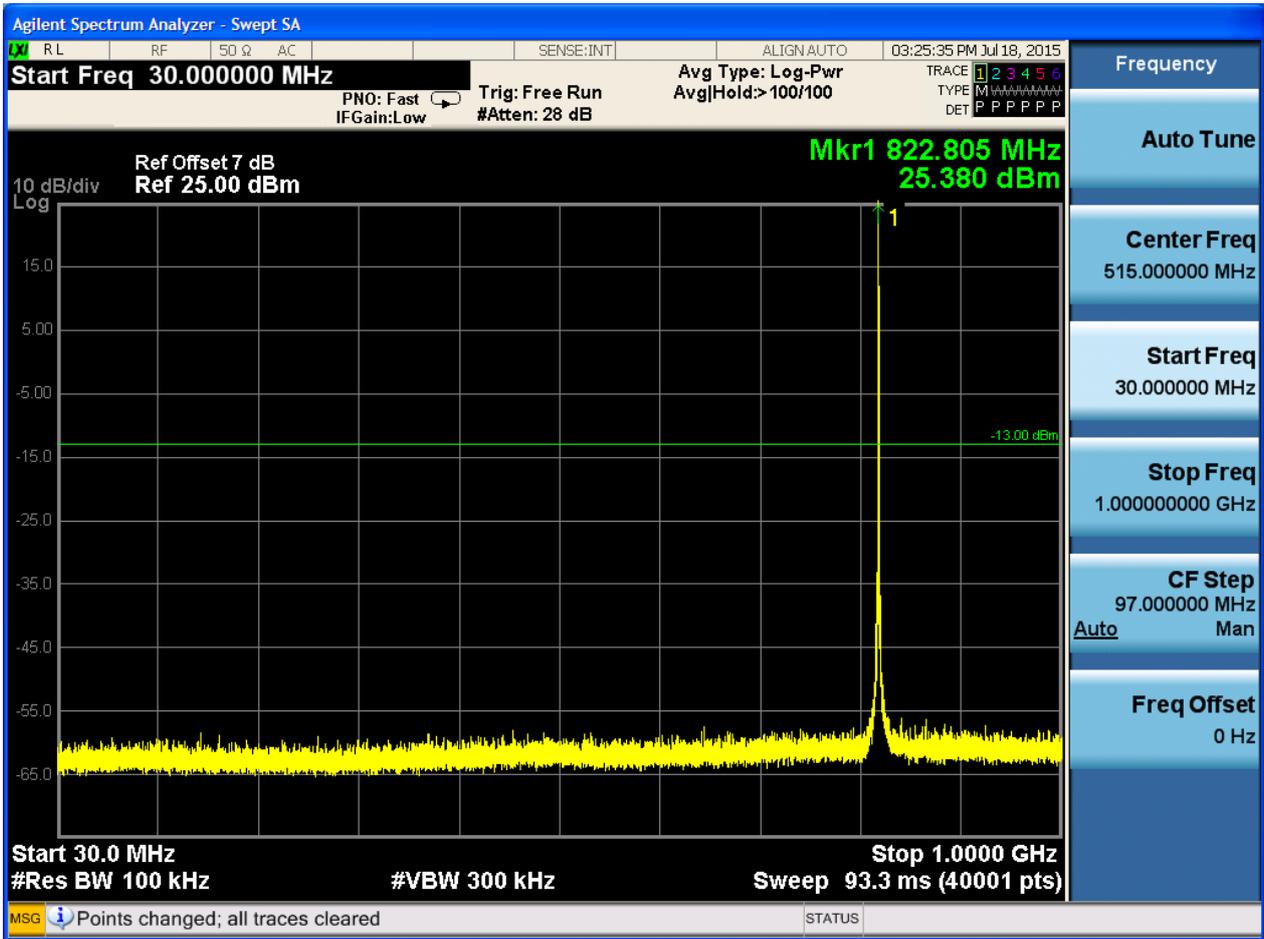


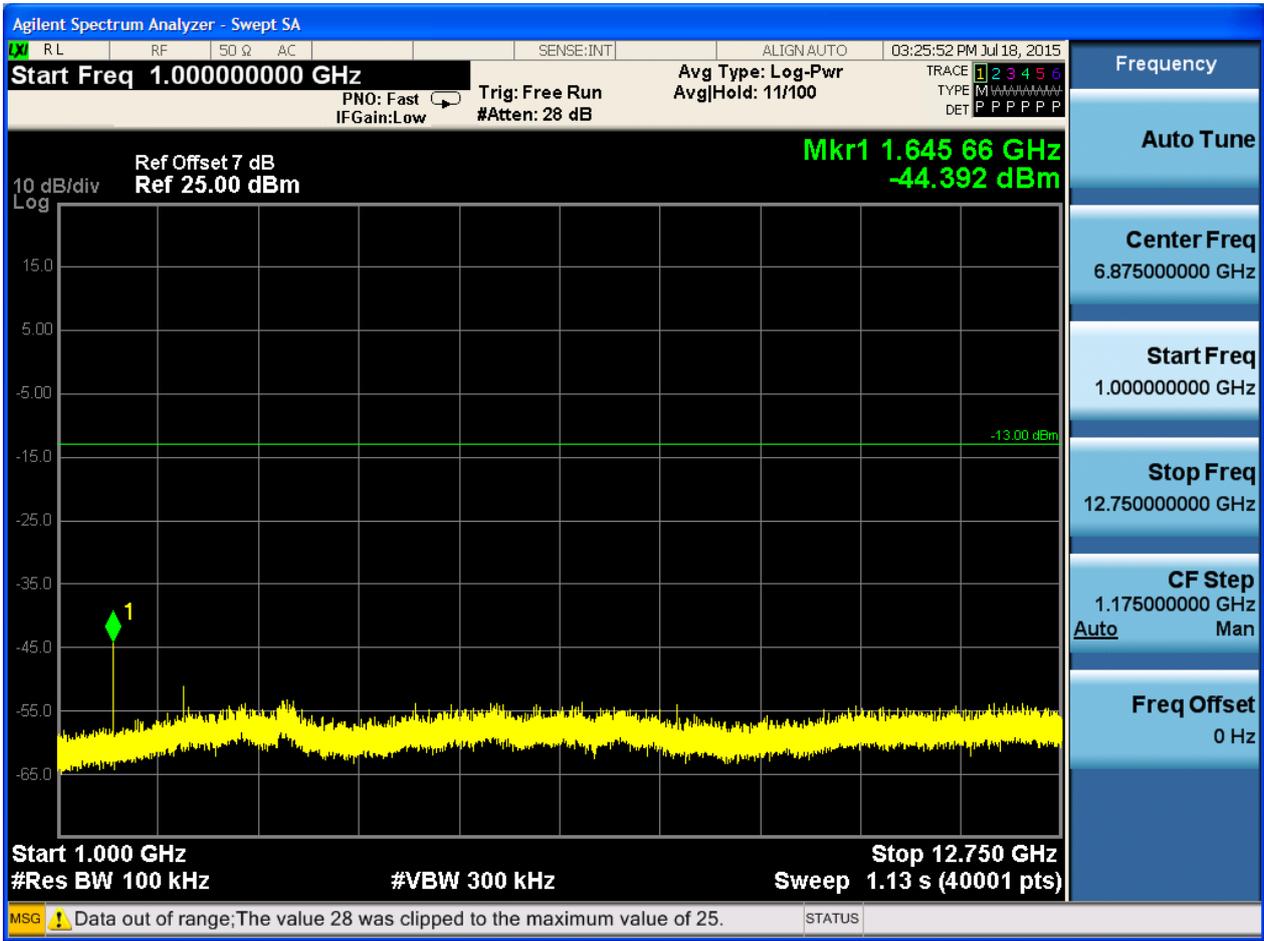


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





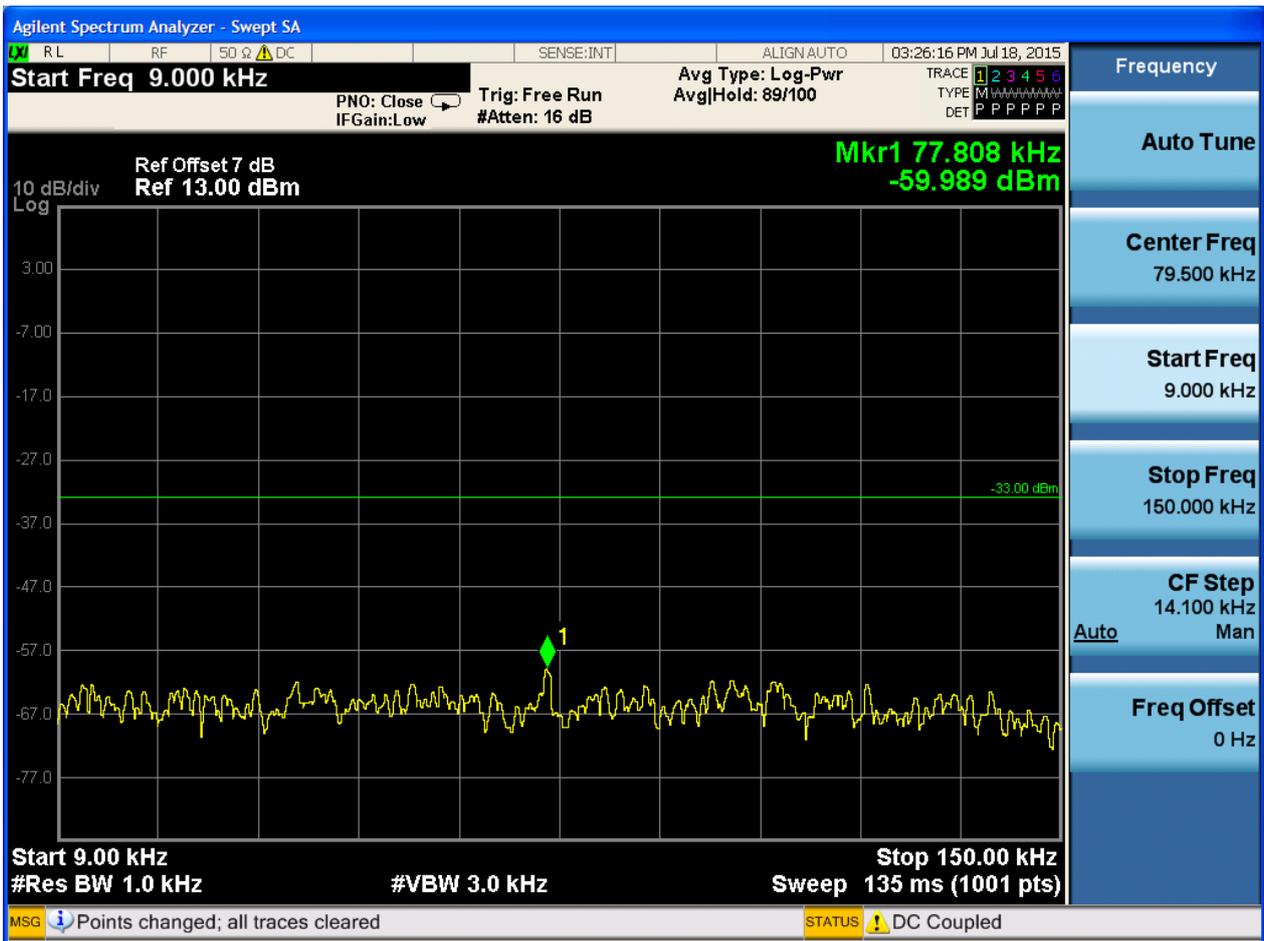


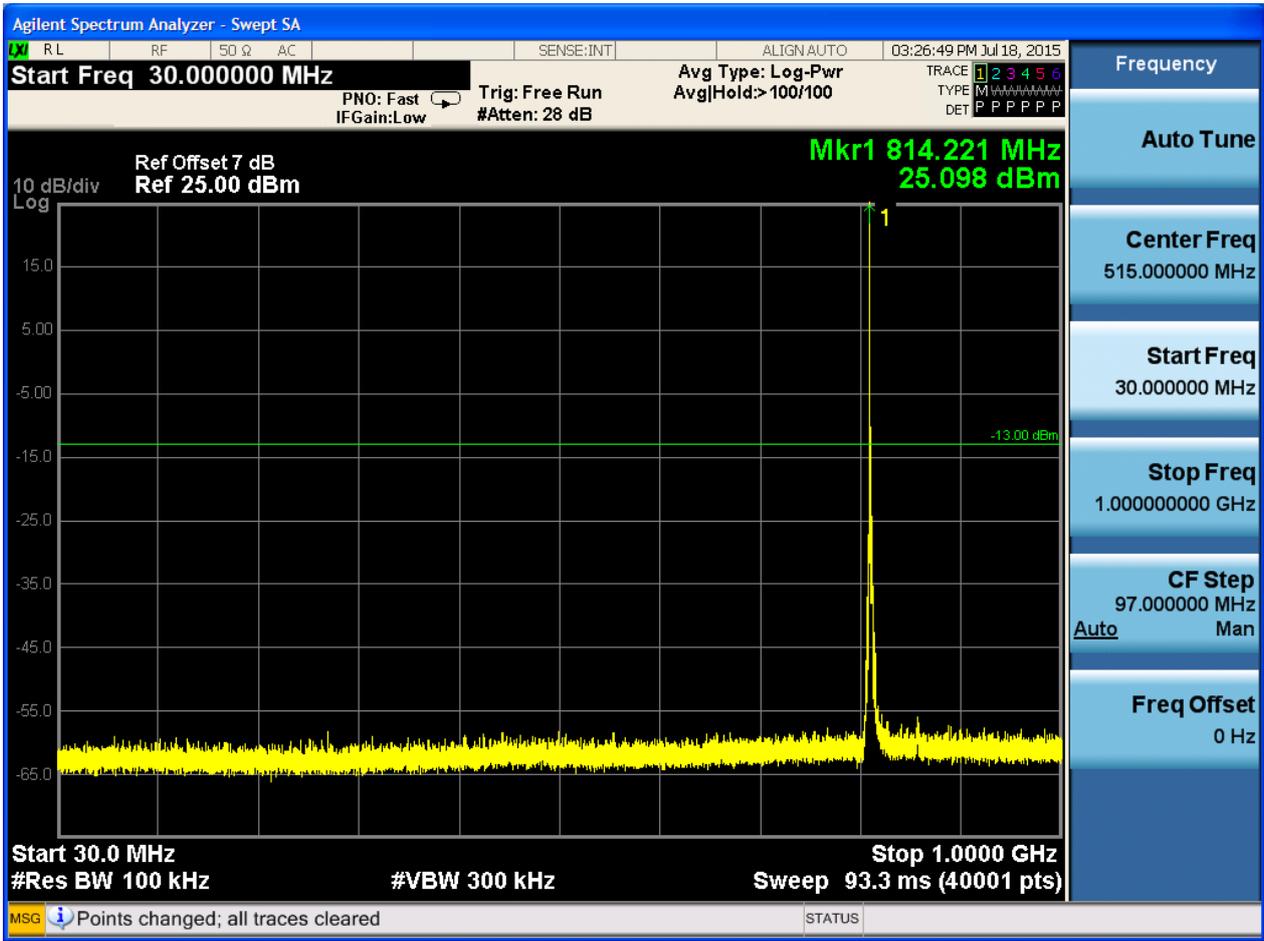


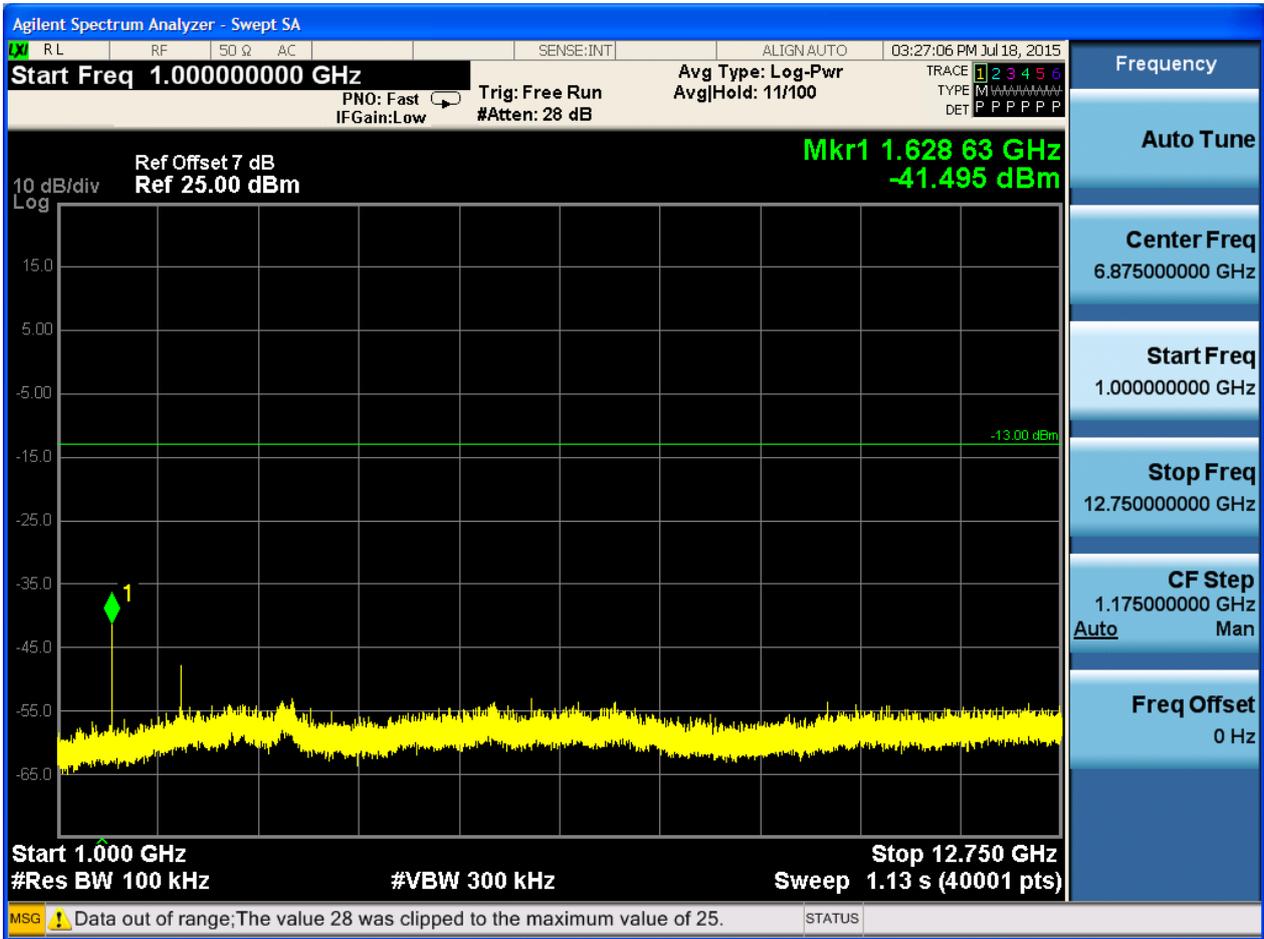
6.1.1.2.2 Test Bandwidth = 3

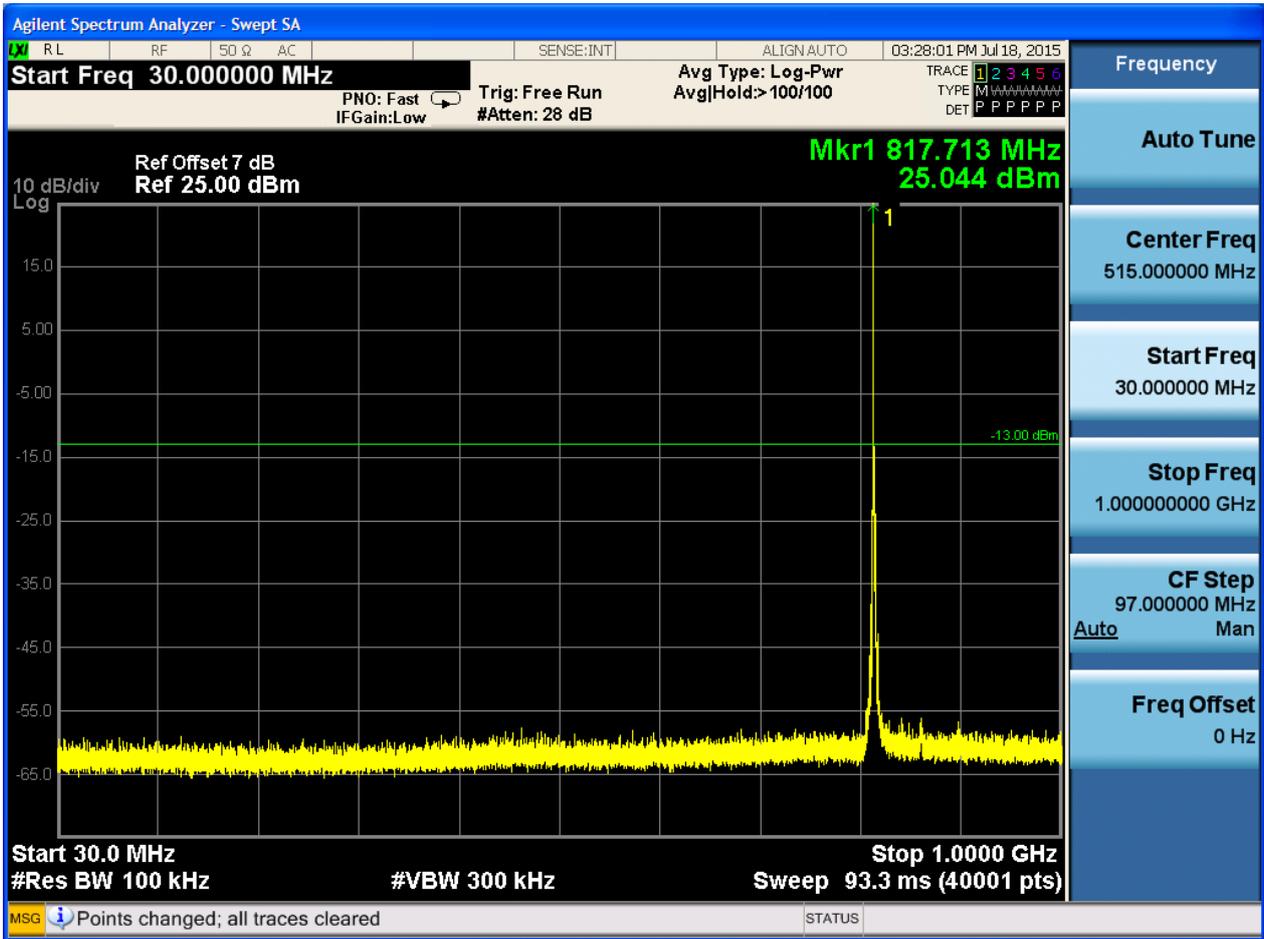
6.1.1.2.2.1 Test Channel = LCH

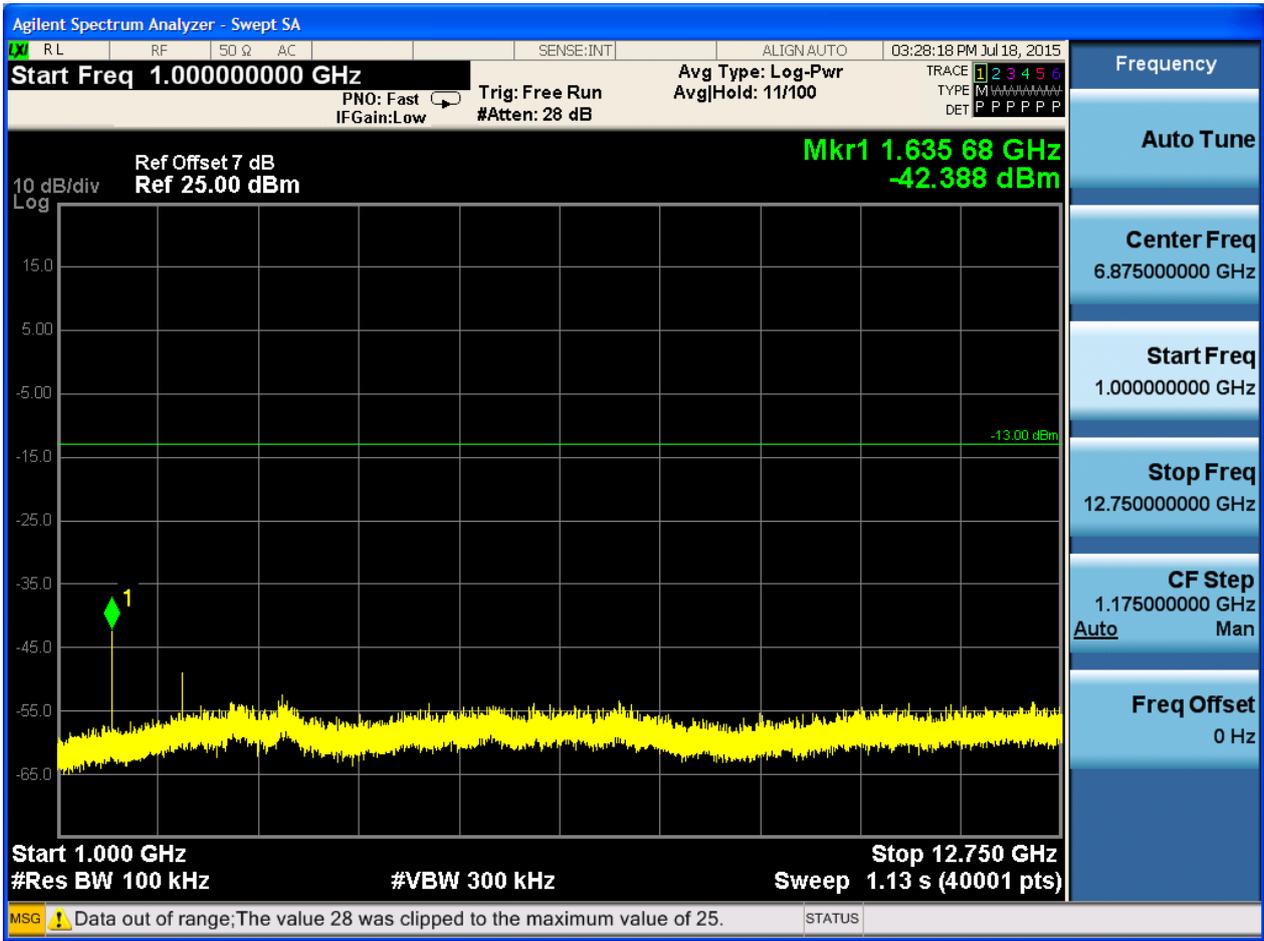
6.1.1.2.2.1.1 Test RB = RB1#0

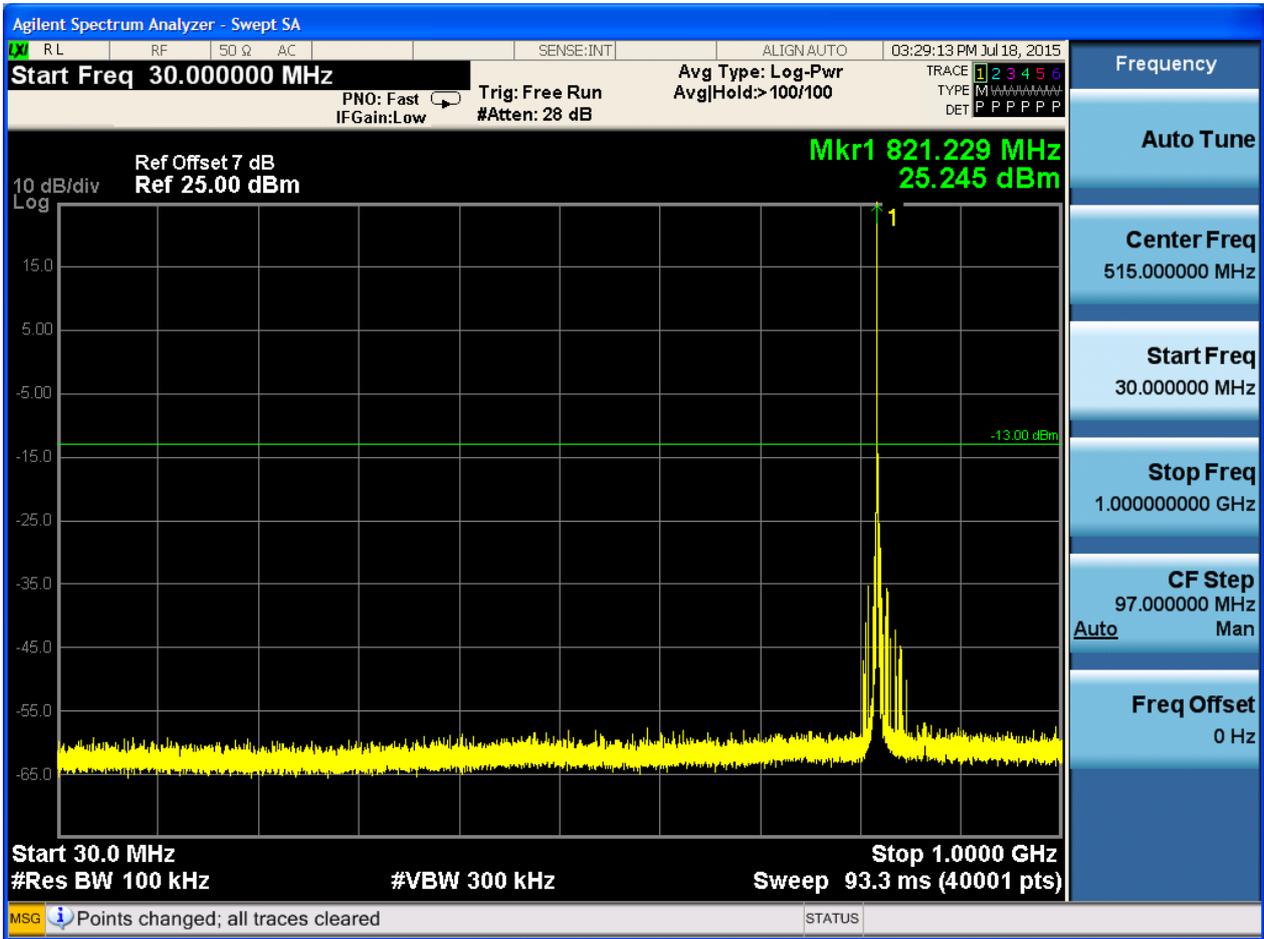


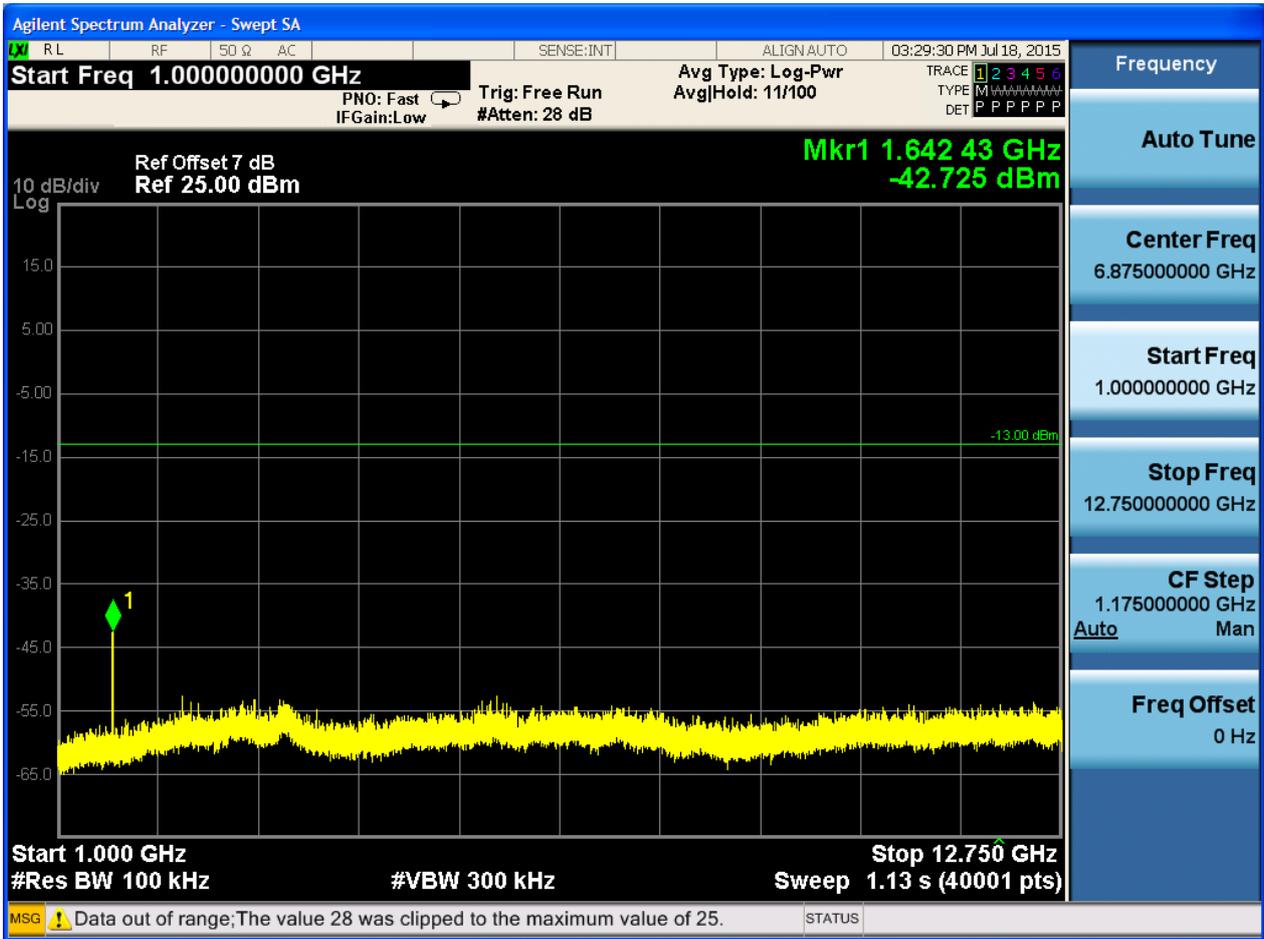














6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

