



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	22.37	18.42	38.5	PASS
				RB1#3	22.58	18.63	38.5	PASS
				RB1#5	22.45	18.5	38.5	PASS
				RB3#0	22.45	18.5	38.5	PASS
				RB3#2	22.54	18.59	38.5	PASS
				RB3#3	22.5	18.55	38.5	PASS
				RB6#0	21.52	17.57	38.5	PASS
			MCH	RB1#0	22.38	18.43	38.5	PASS
				RB1#3	22.67	18.72	38.5	PASS
				RB1#5	22.59	18.64	38.5	PASS
				RB3#0	22.47	18.52	38.5	PASS
				RB3#2	22.6	18.65	38.5	PASS
				RB3#3	22.6	18.65	38.5	PASS
				RB6#0	21.57	17.62	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.79	18.84	38.5	PASS
				RB1#3	23.02	19.07	38.5	PASS
				RB1#5	22.9	18.95	38.5	PASS
				RB3#0	22.87	18.92	38.5	PASS
				RB3#2	22.95	19	38.5	PASS
				RB3#3	22.88	18.93	38.5	PASS
				RB6#0	21.59	17.64	38.5	PASS
		3	LCH	RB1#0	22.18	18.23	38.5	PASS
				RB1#7	22.55	18.6	38.5	PASS
				RB1#14	22.36	18.41	38.5	PASS
				RB8#0	21.41	17.46	38.5	PASS
				RB8#4	21.62	17.67	38.5	PASS
				RB8#7	21.56	17.61	38.5	PASS
				RB15#0	21.54	17.59	38.5	PASS
			MCH	RB1#0	22.29	18.34	38.5	PASS
				RB1#7	22.63	18.68	38.5	PASS
				RB1#14	22.29	18.34	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	21.48	17.53	38.5	PASS
				RB8#4	21.59	17.64	38.5	PASS
				RB8#7	21.61	17.66	38.5	PASS
				RB15#0	21.53	17.58	38.5	PASS
			HCH	RB1#0	22.2	18.25	38.5	PASS
				RB1#7	22.97	19.02	38.5	PASS
				RB1#14	22.85	18.9	38.5	PASS
				RB8#0	21.41	17.46	38.5	PASS
				RB8#4	21.56	17.61	38.5	PASS
				RB8#7	21.64	17.69	38.5	PASS
				RB15#0	21.51	17.56	38.5	PASS
		5	LCH	RB1#0	21.96	18.01	38.5	PASS
				RB1#13	22.56	18.61	38.5	PASS
				RB1#24	23.45	19.5	38.5	PASS
				RB12#0	21.42	17.47	38.5	PASS
				RB12#6	21.67	17.72	38.5	PASS
				RB12#13	21.39	17.44	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.34	17.39	38.5	PASS
			MCH	RB1#0	22.24	18.29	38.5	PASS
				RB1#13	22.64	18.69	38.5	PASS
				RB1#24	23.35	19.4	38.5	PASS
				RB12#0	21.43	17.48	38.5	PASS
				RB12#6	21.6	17.65	38.5	PASS
				RB12#13	21.39	17.44	38.5	PASS
				RB25#0	21.4	17.45	38.5	PASS
			HCH	RB1#0	22	18.05	38.5	PASS
				RB1#13	22.55	18.6	38.5	PASS
				RB1#24	23.32	19.37	38.5	PASS
				RB12#0	21.4	17.45	38.5	PASS
				RB12#6	21.6	17.65	38.5	PASS
				RB12#13	21.4	17.45	38.5	PASS
				RB25#0	21.41	17.46	38.5	PASS
		10	LCH	RB1#0	22.21	18.26	38.5	PASS
				RB1#25	22.85	18.9	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.93	17.98	38.5	PASS
				RB25#0	21.36	17.41	38.5	PASS
				RB25#13	21.49	17.54	38.5	PASS
				RB25#25	21.48	17.53	38.5	PASS
				RB50#0	21.41	17.46	38.5	PASS
			MCH	RB1#0	22.52	18.57	38.5	PASS
				RB1#25	22.69	18.74	38.5	PASS
				RB1#49	21.87	17.92	38.5	PASS
				RB25#0	21.35	17.4	38.5	PASS
				RB25#13	21.43	17.48	38.5	PASS
				RB25#25	21.25	17.3	38.5	PASS
				RB50#0	21.35	17.4	38.5	PASS
			HCH	RB1#0	22.32	18.37	38.5	PASS
				RB1#25	22.65	18.7	38.5	PASS
				RB1#49	21.81	17.86	38.5	PASS
				RB25#0	21.3	17.35	38.5	PASS
				RB25#13	21.56	17.61	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
	LTE/TM2	1.4		RB25#25	21.33	17.38	38.5	PASS
				RB50#0	21.38	17.43	38.5	PASS
			LCH	RB1#0	21.38	17.43	38.5	PASS
				RB1#3	21.74	17.79	38.5	PASS
				RB1#5	21.62	17.67	38.5	PASS
				RB3#0	21.43	17.48	38.5	PASS
				RB3#2	21.53	17.58	38.5	PASS
				RB3#3	21.58	17.63	38.5	PASS
				RB6#0	20.56	16.61	38.5	PASS
			MCH	RB1#0	21.58	17.63	38.5	PASS
				RB1#3	21.86	17.91	38.5	PASS
				RB1#5	21.72	17.77	38.5	PASS
				RB3#0	21.56	17.61	38.5	PASS
				RB3#2	21.59	17.64	38.5	PASS
				RB3#3	21.69	17.74	38.5	PASS
				RB6#0	20.68	16.73	38.5	PASS
			HCH	RB1#0	21.51	17.56	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	21.76	17.81	38.5	PASS
				RB1#5	21.71	17.76	38.5	PASS
				RB3#0	21.65	17.7	38.5	PASS
				RB3#2	21.59	17.64	38.5	PASS
				RB3#3	21.55	17.6	38.5	PASS
				RB6#0	20.72	16.77	38.5	PASS
		3	LCH	RB1#0	21.27	17.32	38.5	PASS
				RB1#7	21.81	17.86	38.5	PASS
				RB1#14	21.62	17.67	38.5	PASS
				RB8#0	20.39	16.44	38.5	PASS
				RB8#4	20.52	16.57	38.5	PASS
				RB8#7	20.54	16.59	38.5	PASS
				RB15#0	20.48	16.53	38.5	PASS
			MCH	RB1#0	21.71	17.76	38.5	PASS
				RB1#7	22	18.05	38.5	PASS
				RB1#14	21.58	17.63	38.5	PASS
				RB8#0	20.44	16.49	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#4	20.59	16.64	38.5	PASS
				RB8#7	20.56	16.61	38.5	PASS
				RB15#0	20.49	16.54	38.5	PASS
			HCH	RB1#0	21.65	17.7	38.5	PASS
				RB1#7	21.6	17.65	38.5	PASS
				RB1#14	21.82	17.87	38.5	PASS
				RB8#0	20.47	16.52	38.5	PASS
				RB8#4	20.63	16.68	38.5	PASS
				RB8#7	20.71	16.76	38.5	PASS
				RB15#0	20.55	16.6	38.5	PASS
		5	LCH	RB1#0	21.07	17.12	38.5	PASS
				RB1#13	21.62	17.67	38.5	PASS
				RB1#24	22.14	18.19	38.5	PASS
				RB12#0	20.45	16.5	38.5	PASS
				RB12#6	20.7	16.75	38.5	PASS
				RB12#13	20.41	16.46	38.5	PASS
				RB25#0	20.29	16.34	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.55	17.6	38.5	PASS
				RB1#13	21.97	18.02	38.5	PASS
				RB1#24	22.2	18.25	38.5	PASS
				RB12#0	20.48	16.53	38.5	PASS
				RB12#6	20.66	16.71	38.5	PASS
				RB12#13	20.45	16.5	38.5	PASS
				RB25#0	20.38	16.43	38.5	PASS
			HCH	RB1#0	21.24	17.29	38.5	PASS
				RB1#13	21.73	17.78	38.5	PASS
				RB1#24	22.55	18.6	38.5	PASS
				RB12#0	20.46	16.51	38.5	PASS
				RB12#6	20.66	16.71	38.5	PASS
				RB12#13	20.48	16.53	38.5	PASS
				RB25#0	20.38	16.43	38.5	PASS
		10	LCH	RB1#0	21.42	17.47	38.5	PASS
				RB1#25	21.99	18.04	38.5	PASS
				RB1#49	21.25	17.3	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.37	16.42	38.5	PASS
				RB25#13	20.48	16.53	38.5	PASS
				RB25#25	20.48	16.53	38.5	PASS
				RB50#0	20.39	16.44	38.5	PASS
			MCH	RB1#0	21.79	17.84	38.5	PASS
				RB1#25	21.93	17.98	38.5	PASS
				RB1#49	21.12	17.17	38.5	PASS
				RB25#0	20.33	16.38	38.5	PASS
				RB25#13	20.39	16.44	38.5	PASS
				RB25#25	20.23	16.28	38.5	PASS
				RB50#0	20.32	16.37	38.5	PASS
			HCH	RB1#0	21.48	17.53	38.5	PASS
				RB1#25	21.8	17.85	38.5	PASS
				RB1#49	20.99	17.04	38.5	PASS
				RB25#0	20.24	16.29	38.5	PASS
				RB25#13	20.5	16.55	38.5	PASS
				RB25#25	20.28	16.33	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.33	16.38	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

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB1#0	4.45	13	PASS
				RB1#3	4.22	13	PASS
				RB1#5	4.38	13	PASS
				RB3#0	4.8	13	PASS
				RB3#2	4.59	13	PASS
				RB3#3	4.7	13	PASS
				RB6#0	5.69	13	PASS
			MCH	RB1#0	4.49	13	PASS
				RB1#3	4.31	13	PASS
				RB1#5	4.51	13	PASS
				RB3#0	5.06	13	PASS
				RB3#2	4.91	13	PASS
				RB3#3	4.8	13	PASS
				RB6#0	5.85	13	PASS
			HCH	RB1#0	3.74	13	PASS
				RB1#3	3.6	13	PASS
				RB1#5	3.73	13	PASS
				RB3#0	4.18	13	PASS
				RB3#2	4.02	13	PASS
				RB3#3	4.23	13	PASS
				RB6#0	5.48	13	PASS
		3	LCH	RB1#0	4.56	13	PASS
				RB1#7	4.33	13	PASS
				RB1#14	4.4	13	PASS
				RB8#0	5.4	13	PASS
				RB8#4	5.26	13	PASS
				RB8#7	5.32	13	PASS
				RB15#0	5.74	13	PASS
			MCH	RB1#0	4.83	13	PASS
				RB1#7	4.2	13	PASS
				RB1#14	4.58	13	PASS
				RB8#0	5.57	13	PASS
				RB8#4	5.45	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#7	5.42	13	PASS
				RB15#0	5.79	13	PASS
			HCH	RB1#0	4.06	13	PASS
				RB1#7	3.75	13	PASS
				RB1#14	3.85	13	PASS
				RB8#0	5.27	13	PASS
				RB8#4	5.01	13	PASS
				RB8#7	5.09	13	PASS
				RB15#0	5.48	13	PASS
		5	LCH	RB1#0	4.79	13	PASS
				RB1#13	4.33	13	PASS
				RB1#24	3.85	13	PASS
				RB12#0	5.59	13	PASS
				RB12#6	5.31	13	PASS
				RB12#13	5.56	13	PASS
				RB25#0	6	13	PASS
			MCH	RB1#0	4.74	13	PASS
				RB1#13	4.48	13	PASS
				RB1#24	4.08	13	PASS
				RB12#0	5.79	13	PASS
				RB12#6	5.62	13	PASS
				RB12#13	5.73	13	PASS
				RB25#0	5.98	13	PASS
			HCH	RB1#0	4.56	13	PASS
				RB1#13	4.04	13	PASS
				RB1#24	3.65	13	PASS
				RB12#0	5.46	13	PASS
				RB12#6	5.17	13	PASS
				RB12#13	5.31	13	PASS
				RB25#0	5.72	13	PASS
		10	LCH	RB1#0	4.42	13	PASS
				RB1#25	4.03	13	PASS
				RB1#49	4.56	13	PASS
				RB25#0	5.85	13	PASS
				RB25#13	5.68	13	PASS
				RB25#25	5.91	13	PASS
				RB50#0	6.2	13	PASS
			MCH	RB1#0	4.22	13	PASS
				RB1#25	4.15	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.48	13	PASS
				RB25#0	6.01	13	PASS
				RB25#13	5.81	13	PASS
				RB25#25	6.1	13	PASS
				RB50#0	6.28	13	PASS
			HCH	RB1#0	4.39	13	PASS
				RB1#25	4.05	13	PASS
				RB1#49	4.19	13	PASS
				RB25#0	6.01	13	PASS
				RB25#13	5.52	13	PASS
				RB25#25	5.62	13	PASS
				RB50#0	6.03	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.47	13	PASS
				RB1#3	5.27	13	PASS
				RB1#5	5.4	13	PASS
				RB3#0	5.55	13	PASS
				RB3#2	5.44	13	PASS
				RB3#3	5.55	13	PASS
				RB6#0	6.41	13	PASS
			MCH	RB1#0	5.49	13	PASS
				RB1#3	5.17	13	PASS
				RB1#5	5.51	13	PASS
				RB3#0	5.52	13	PASS
				RB3#2	5.52	13	PASS
				RB3#3	5.61	13	PASS
				RB6#0	6.78	13	PASS
			HCH	RB1#0	4.74	13	PASS
				RB1#3	4.79	13	PASS
				RB1#5	4.7	13	PASS
				RB3#0	5.12	13	PASS
				RB3#2	5.01	13	PASS
				RB3#3	5.15	13	PASS
				RB6#0	6.29	13	PASS
		3	LCH	RB1#0	5.79	13	PASS
				RB1#7	5.46	13	PASS
				RB1#14	5.17	13	PASS
				RB8#0	6.19	13	PASS
				RB8#4	6.1	13	PASS
				RB8#7	6.27	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB15#0	6.54	13	PASS
				RB1#0	5.33	13	PASS
			MCH	RB1#7	5.11	13	PASS
				RB1#14	5.37	13	PASS
				RB8#0	6.28	13	PASS
				RB8#4	6.18	13	PASS
				RB8#7	6.2	13	PASS
				RB15#0	6.75	13	PASS
			HCH	RB1#0	5.07	13	PASS
				RB1#7	4.96	13	PASS
				RB1#14	5.07	13	PASS
				RB8#0	5.97	13	PASS
				RB8#4	5.93	13	PASS
				RB8#7	5.97	13	PASS
				RB15#0	6.53	13	PASS
		5	LCH	RB1#0	5.55	13	PASS
				RB1#13	5.2	13	PASS
				RB1#24	4.87	13	PASS
				RB12#0	6.42	13	PASS
				RB12#6	6.21	13	PASS
				RB12#13	6.44	13	PASS
				RB25#0	6.73	13	PASS
			MCH	RB1#0	5.66	13	PASS
				RB1#13	5.44	13	PASS
				RB1#24	5.18	13	PASS
				RB12#0	6.65	13	PASS
				RB12#6	6.54	13	PASS
				RB12#13	6.6	13	PASS
				RB25#0	6.98	13	PASS
			HCH	RB1#0	5.59	13	PASS
				RB1#13	5.01	13	PASS
				RB1#24	4.36	13	PASS
				RB12#0	6.31	13	PASS
				RB12#6	5.97	13	PASS
				RB12#13	6.13	13	PASS
				RB25#0	6.64	13	PASS
		10	LCH	RB1#0	5.38	13	PASS
				RB1#25	4.93	13	PASS
				RB1#49	5.54	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.8	13	PASS
				RB25#13	6.62	13	PASS
				RB25#25	6.84	13	PASS
				RB50#0	6.96	13	PASS
			MCH	RB1#0	5.32	13	PASS
				RB1#25	5.29	13	PASS
				RB1#49	5.77	13	PASS
				RB25#0	6.87	13	PASS
				RB25#13	6.7	13	PASS
				RB25#25	6.93	13	PASS
				RB50#0	7.12	13	PASS
			HCH	RB1#0	5.42	13	PASS
				RB1#25	4.95	13	PASS
				RB1#49	5.15	13	PASS
				RB25#0	6.99	13	PASS
				RB25#13	6.5	13	PASS
				RB25#25	6.58	13	PASS
				RB50#0	6.88	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

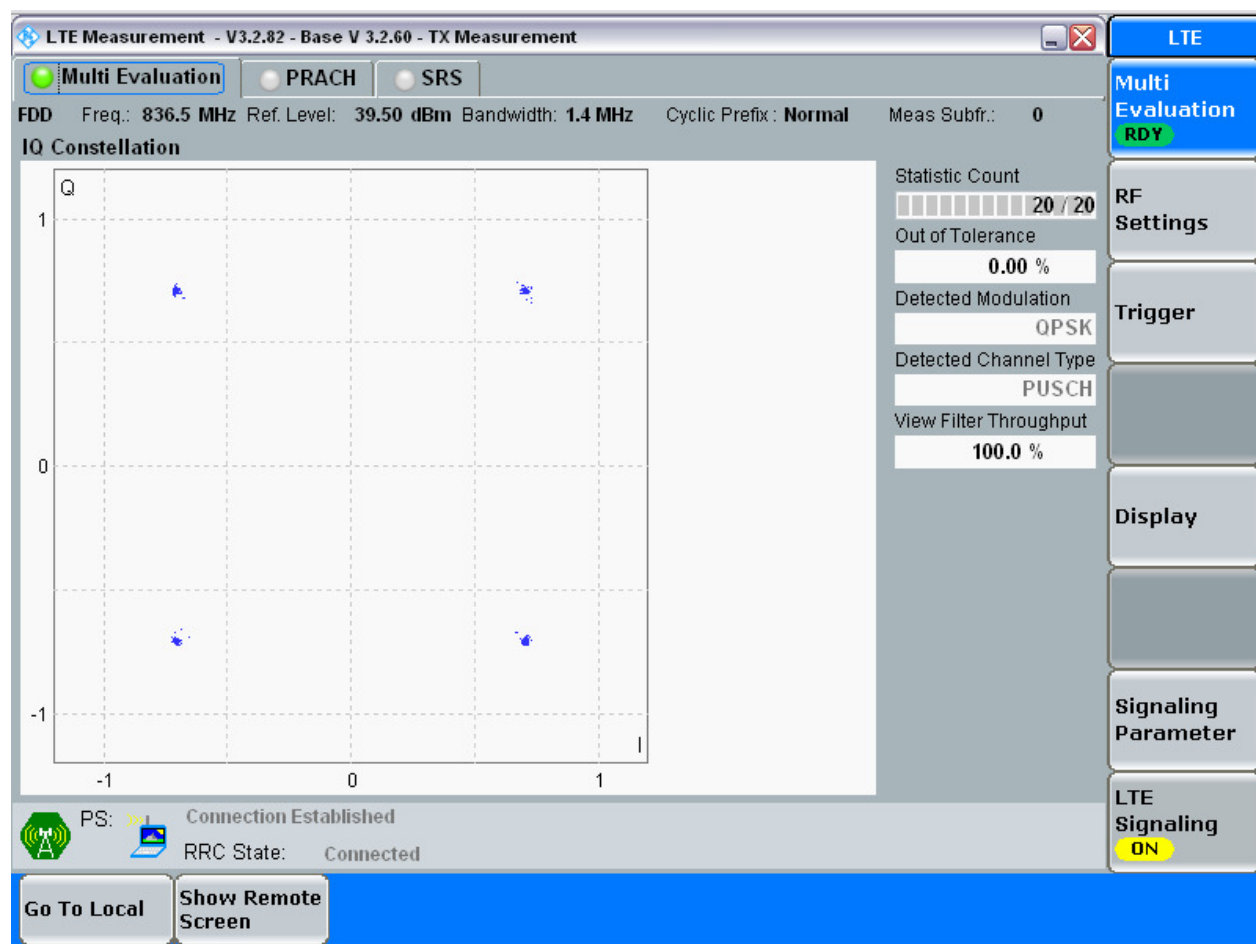
3.1.1 Test Band = BAND5

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

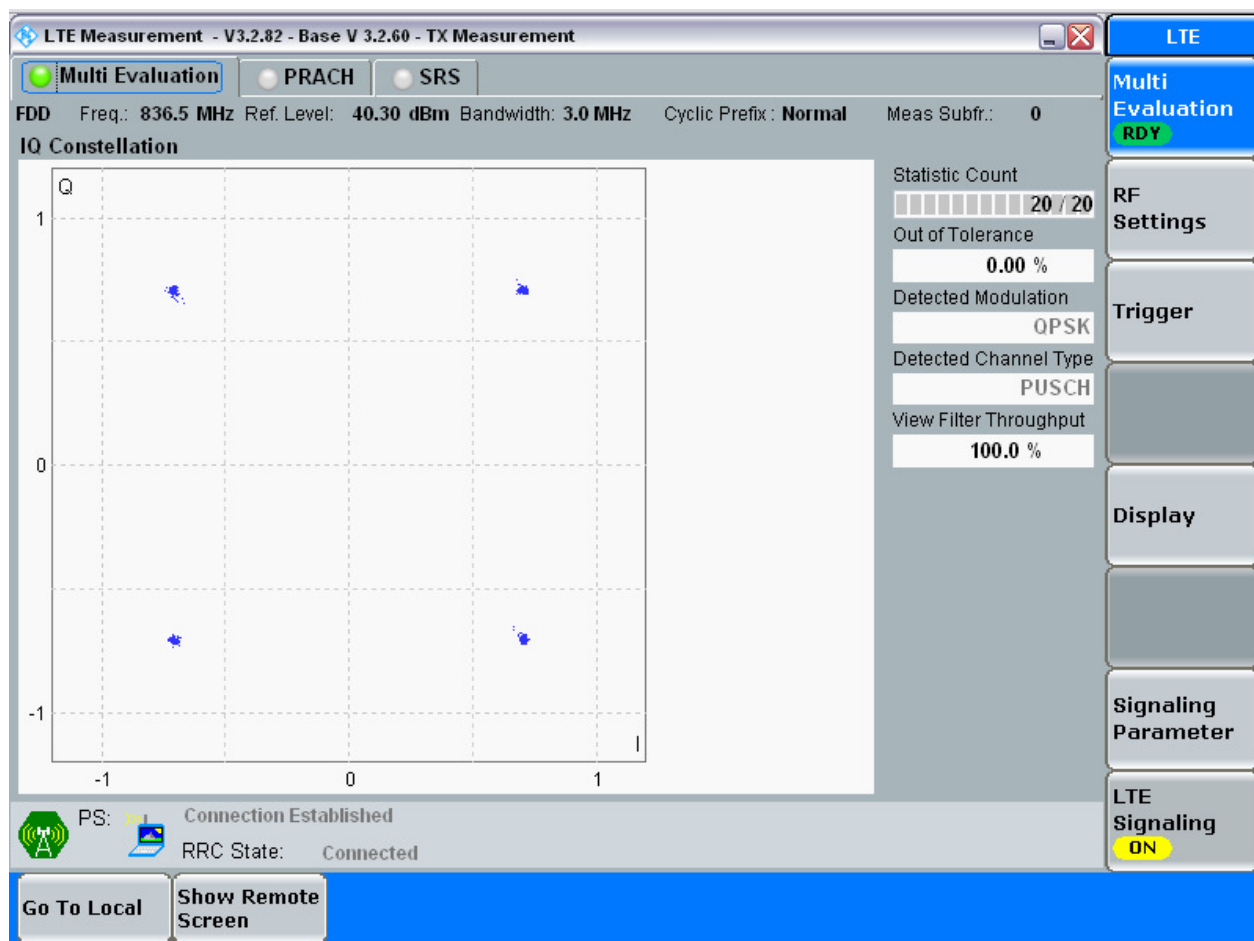
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

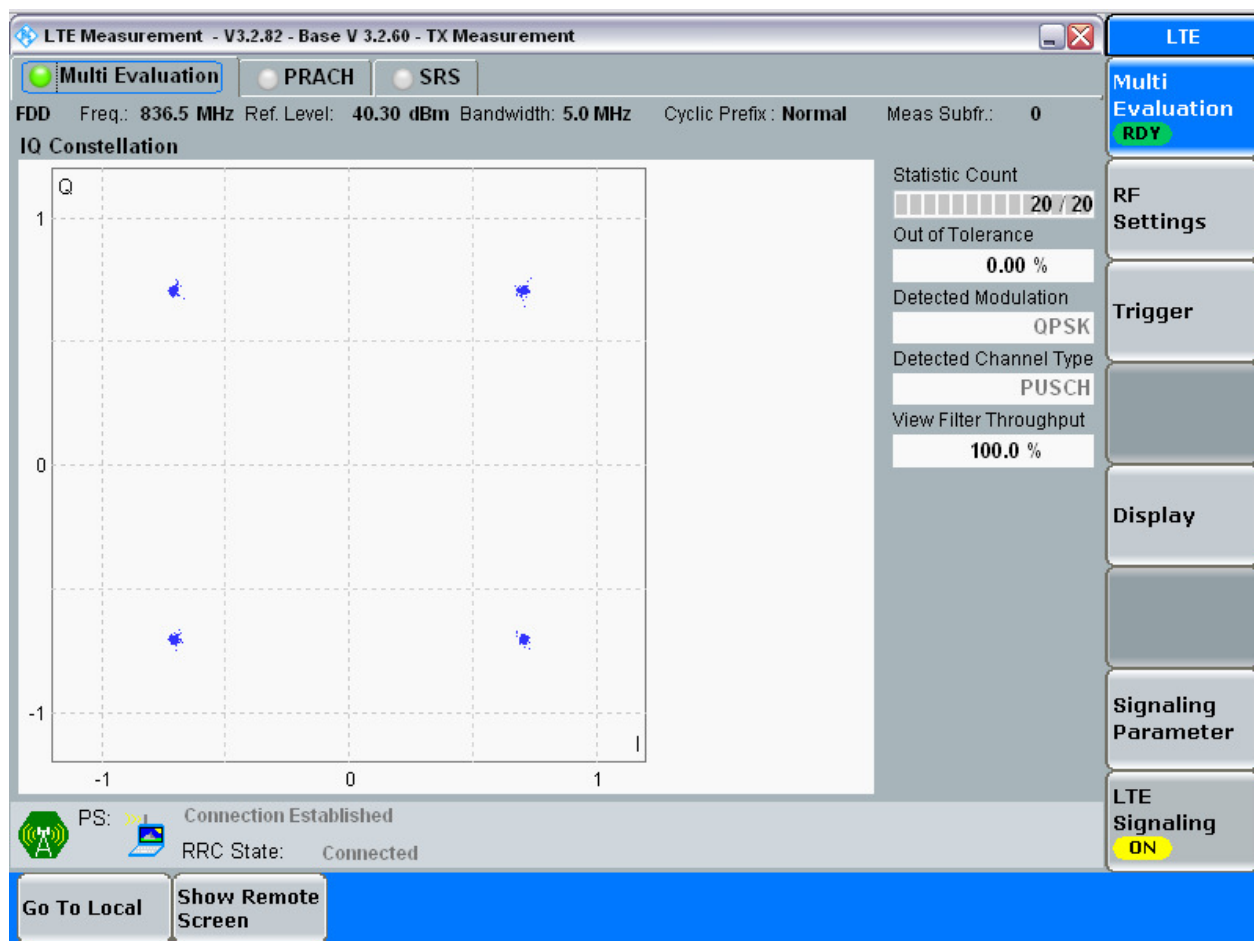
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

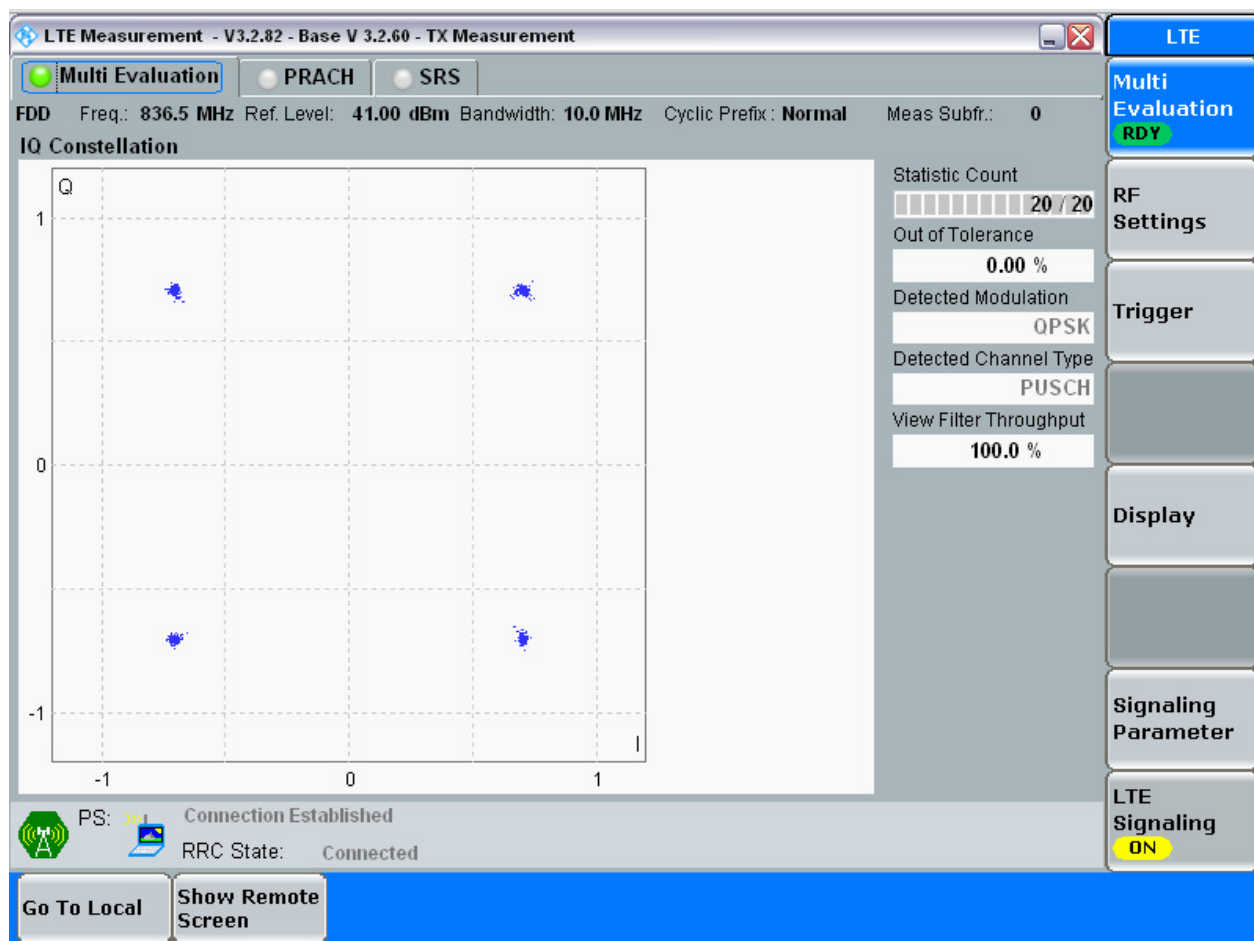
3.1.1.1.3.1.1 Test RB = RB25#0



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

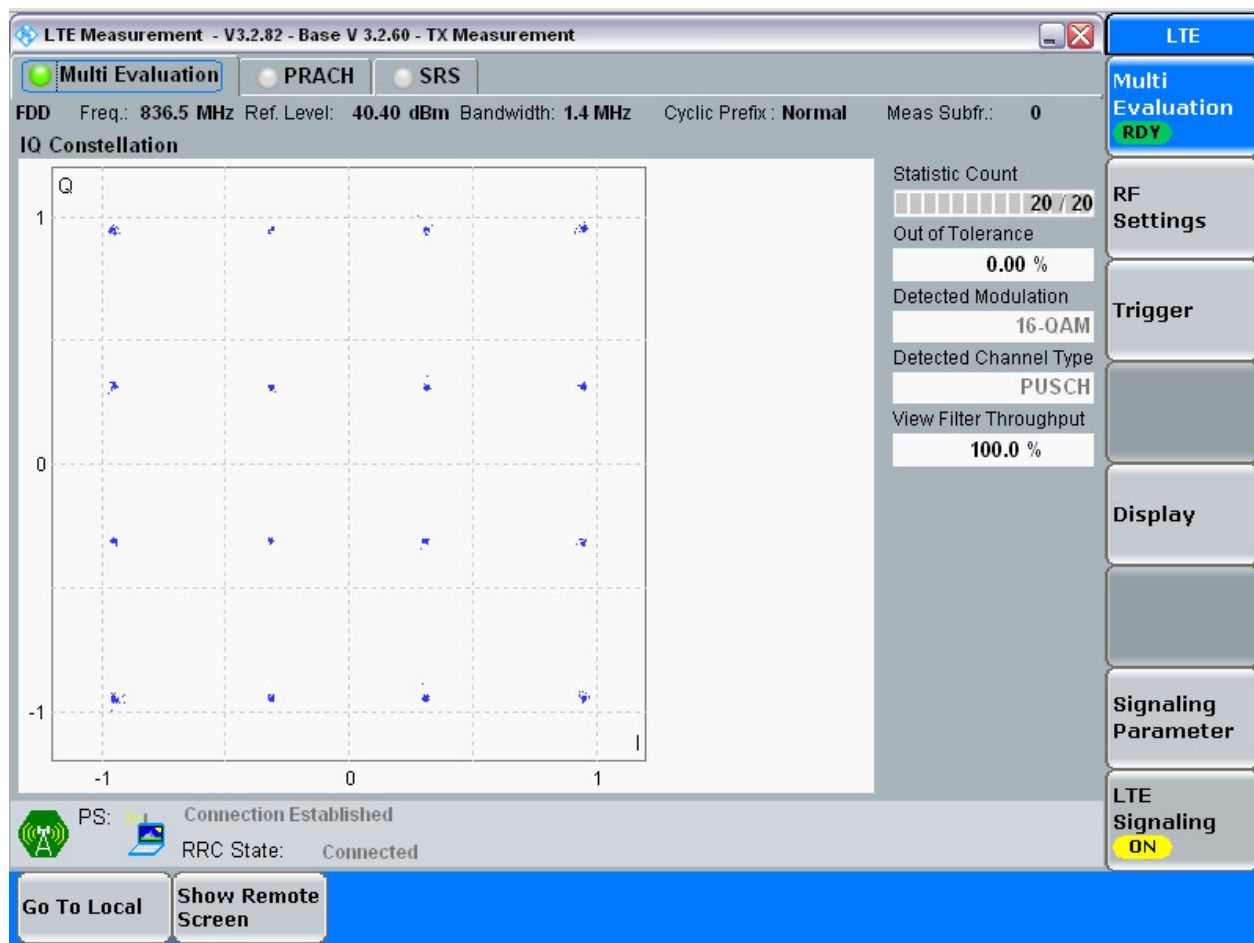


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

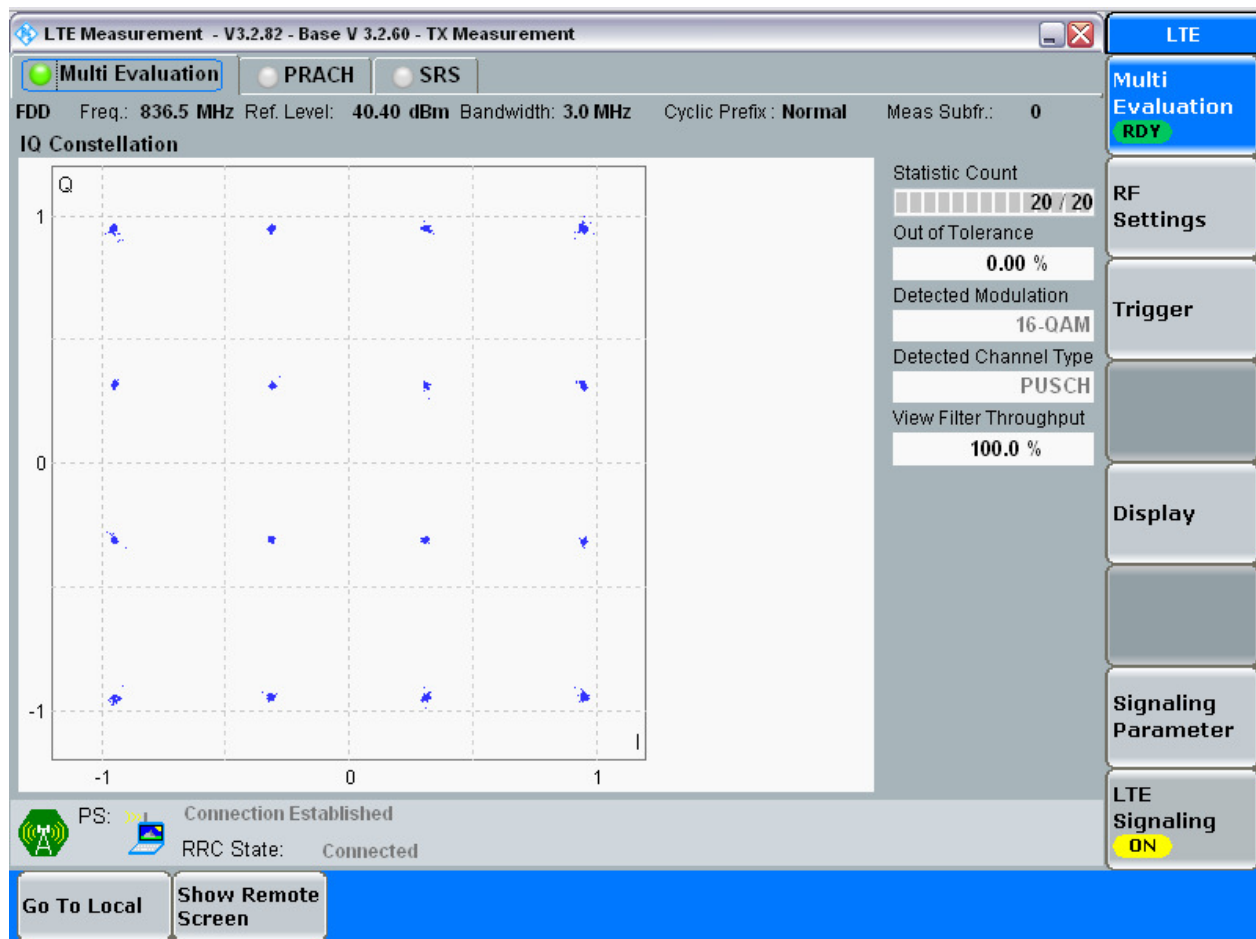
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

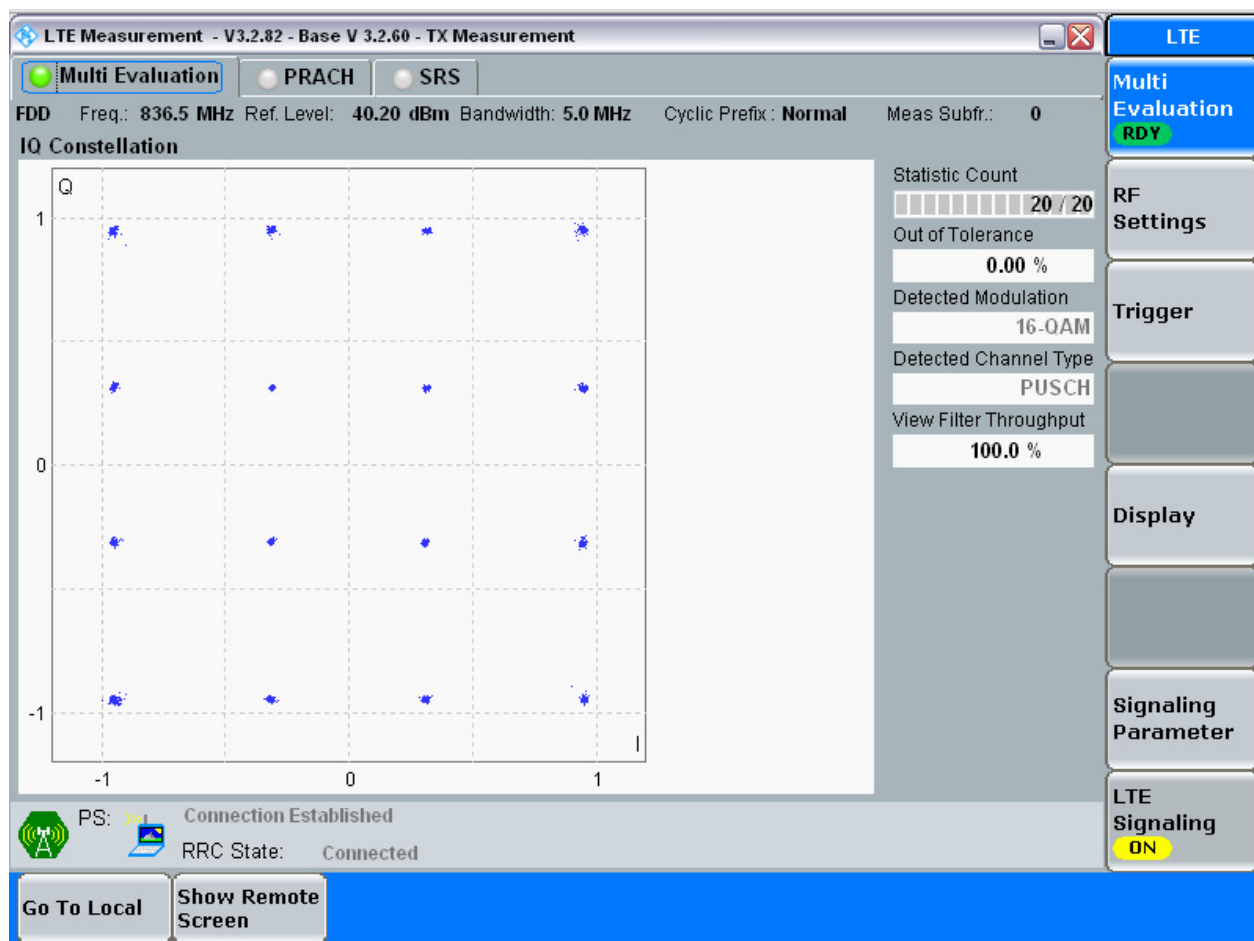
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

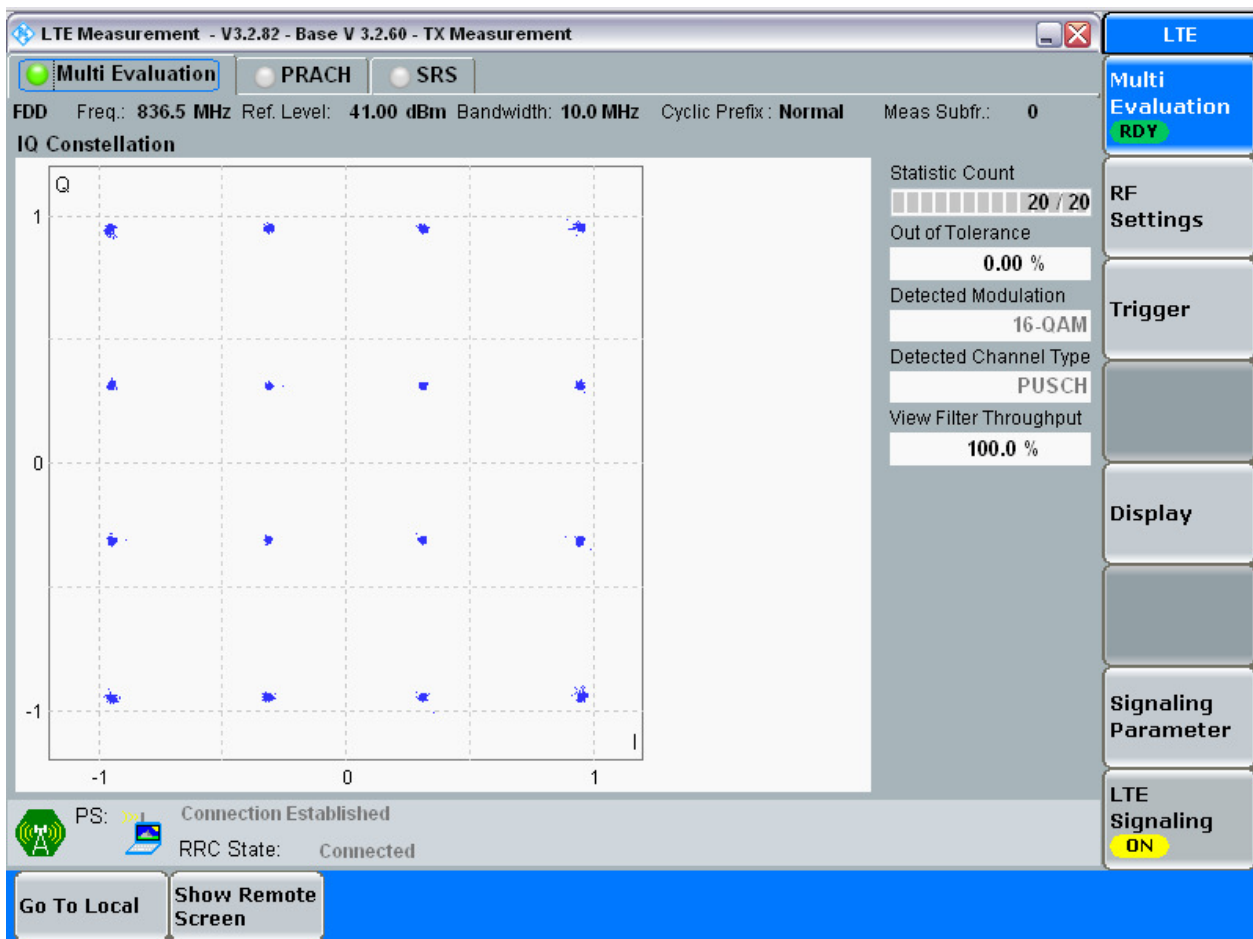
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.11	1.69	Pass
			MCH	RB6#0	1.10	1.27	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	3.05	Pass
			HCH	RB15#0	2.72	3.15	Pass
		5	LCH	RB25#0	4.52	5.04	Pass
			MCH	RB25#0	4.53	4.94	Pass
			HCH	RB25#0	4.54	6.43	Pass
		10	LCH	RB50#0	9.06	11.11	Pass
			MCH	RB50#0	9.09	12.96	Pass
			HCH	RB50#0	9.02	9.97	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.11	1.45	Pass
			MCH	RB6#0	1.12	1.65	Pass
			HCH	RB6#0	1.13	1.80	Pass
		3	LCH	RB15#0	2.73	3.90	Pass
			MCH	RB15#0	2.75	4.25	Pass
			HCH	RB15#0	2.77	4.16	Pass
		5	LCH	RB25#0	4.54	5.90	Pass
			MCH	RB25#0	4.55	6.20	Pass
			HCH	RB25#0	4.56	6.83	Pass
		10	LCH	RB50#0	9.14	13.43	Pass
			MCH	RB50#0	9.20	13.61	Pass
			HCH	RB50#0	9.11	13.38	Pass

Part II - Test Plots

4.1 For LTE

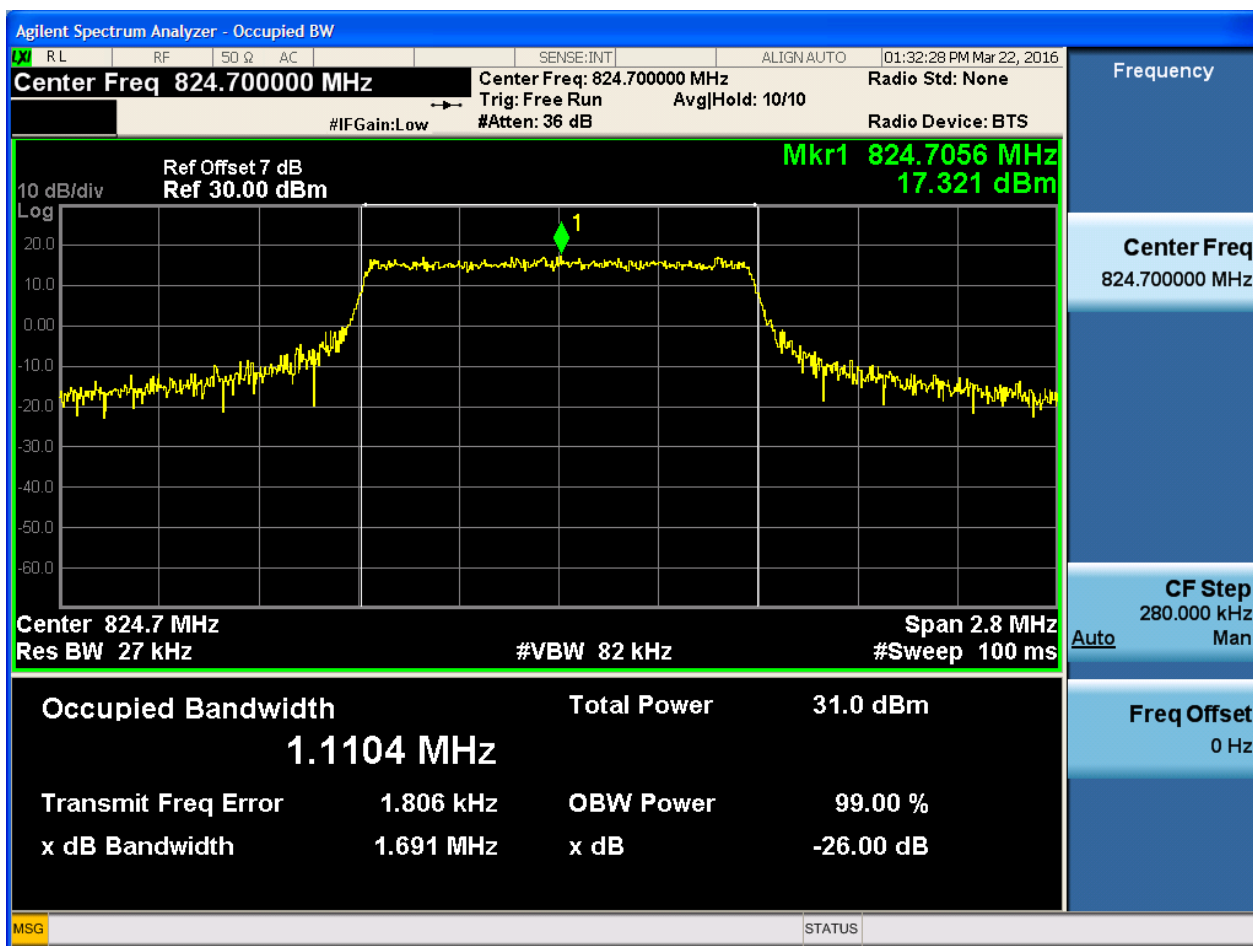
4.1.1 Test Band = BAND5

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

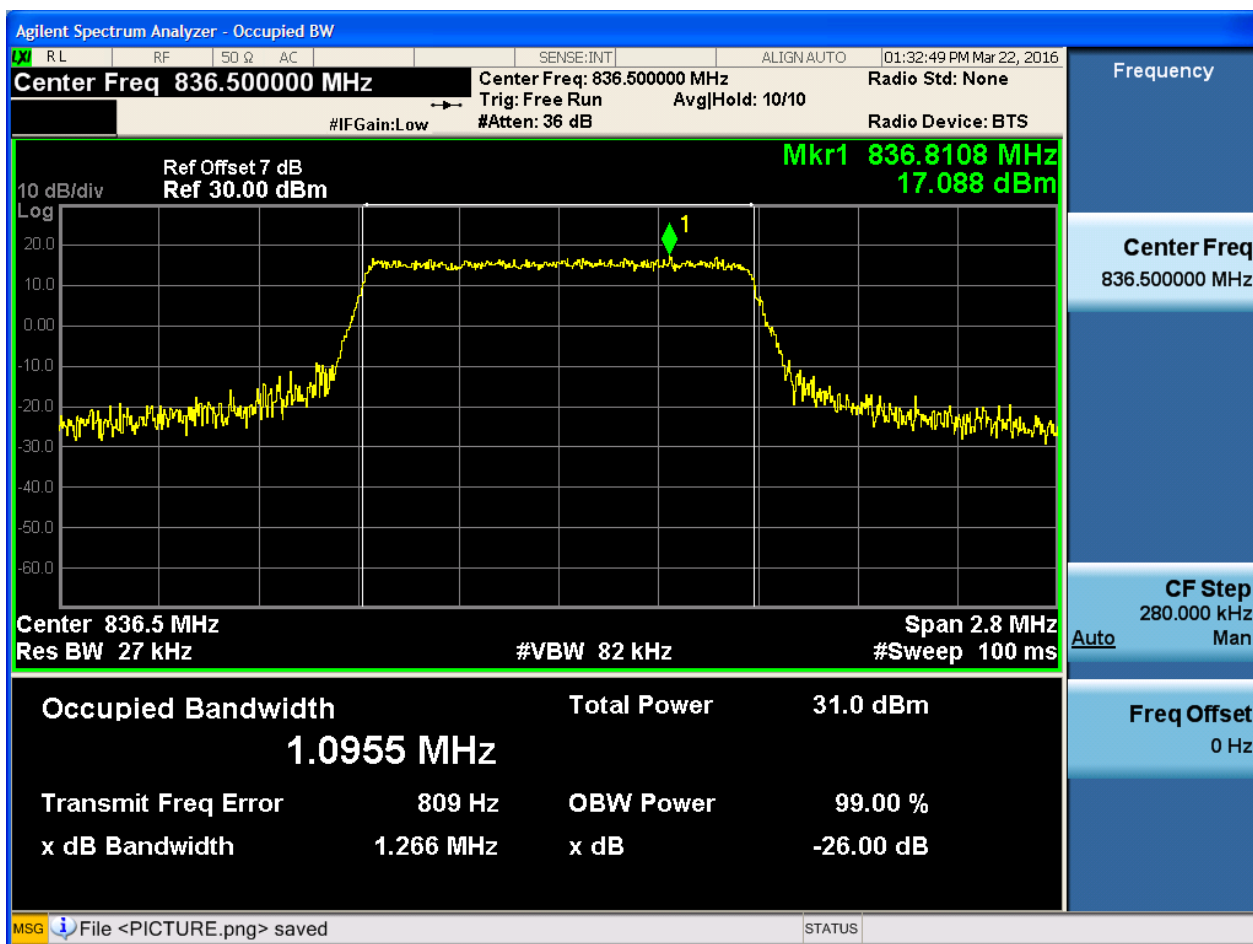
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

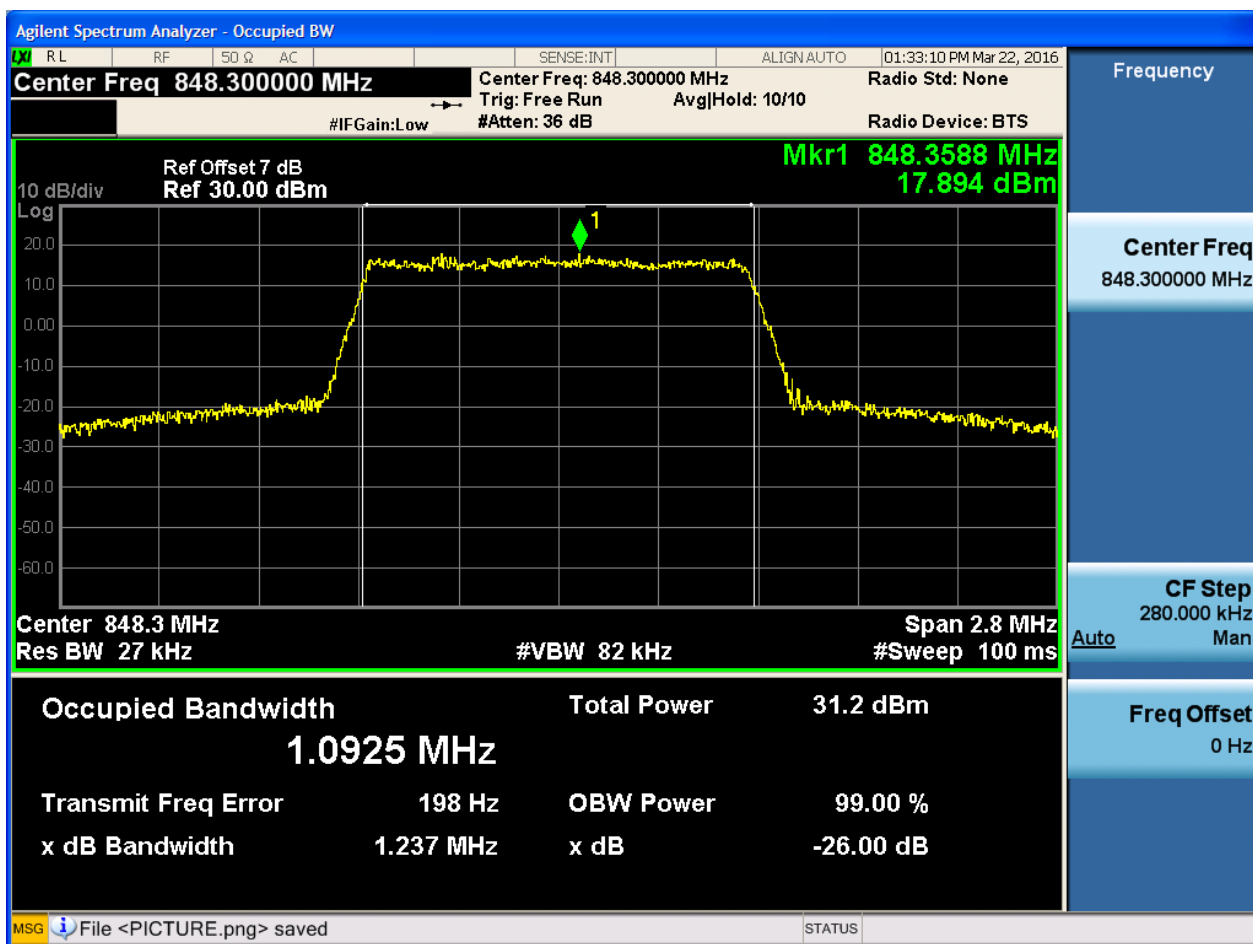
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

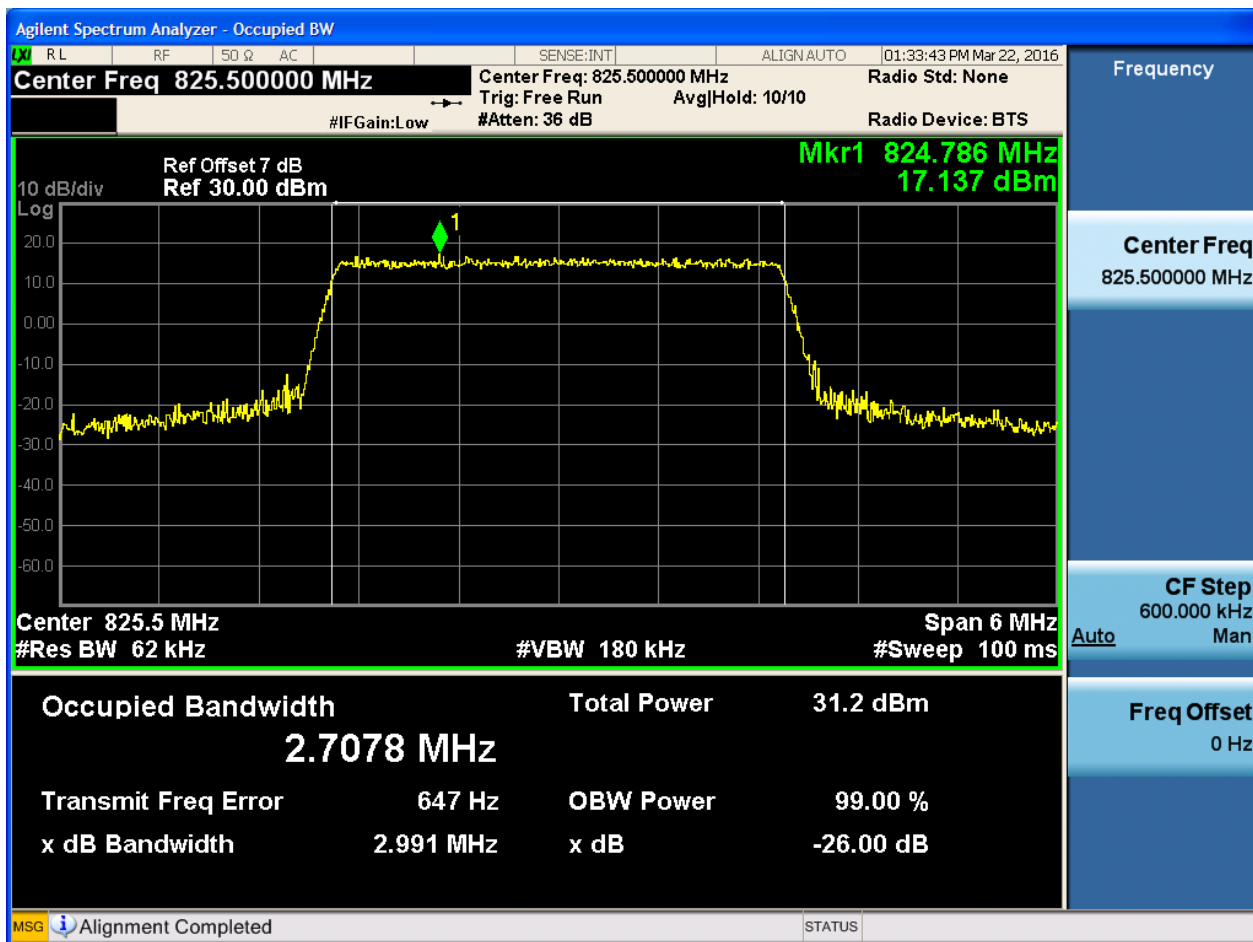




4.1.1.1.2 Test Bandwidth = 3

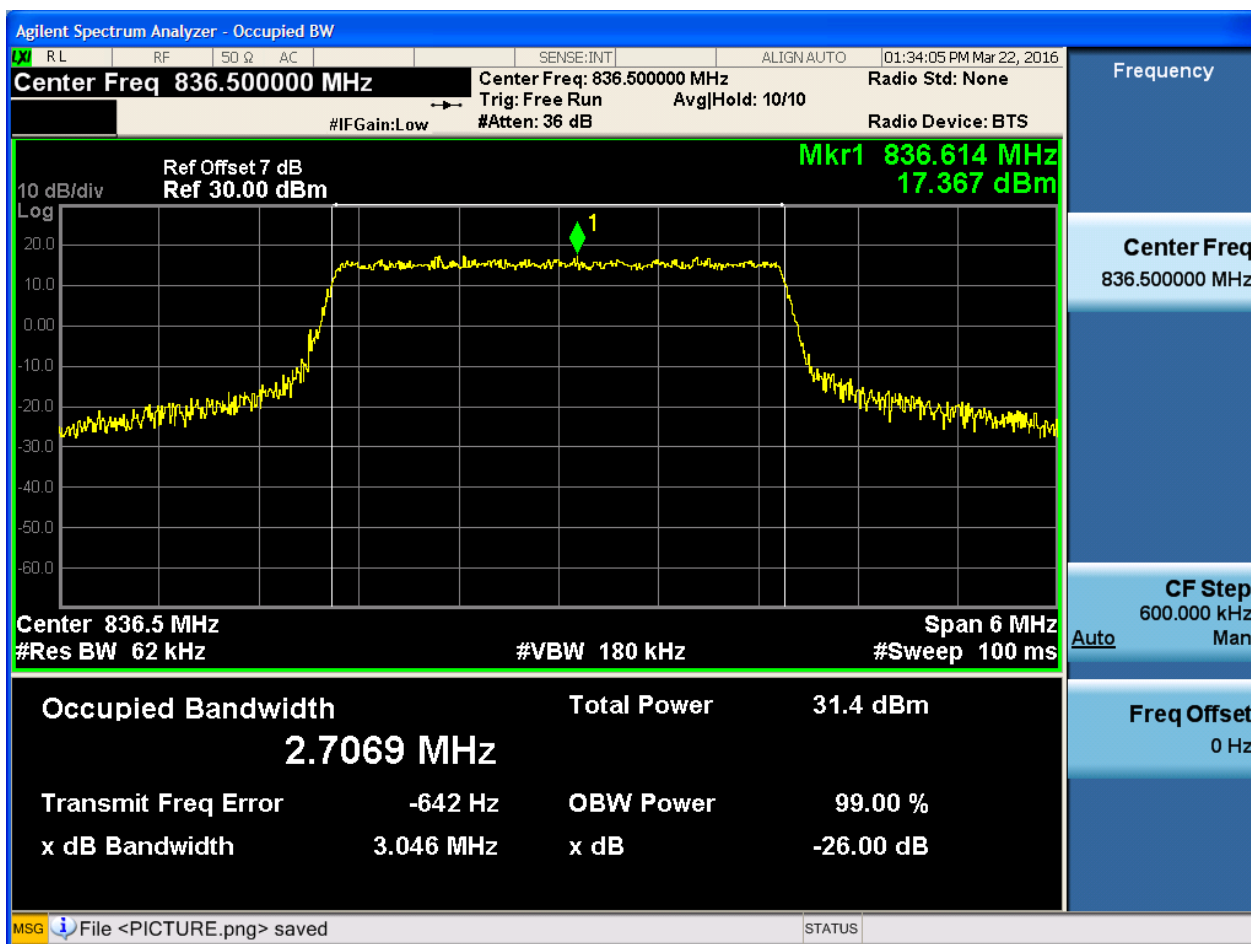
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



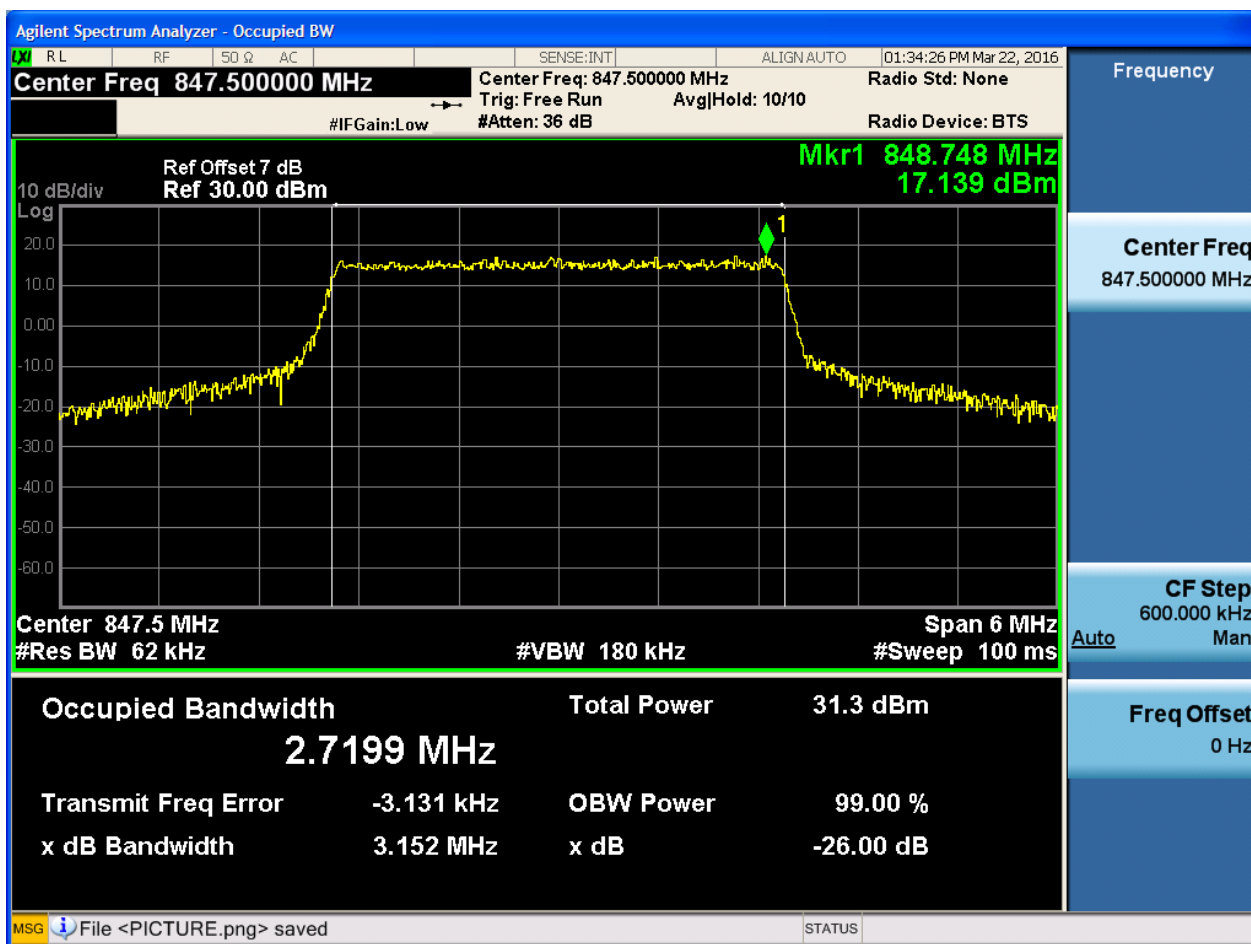
4.1.1.1.2.2 Test Channel = MCH

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

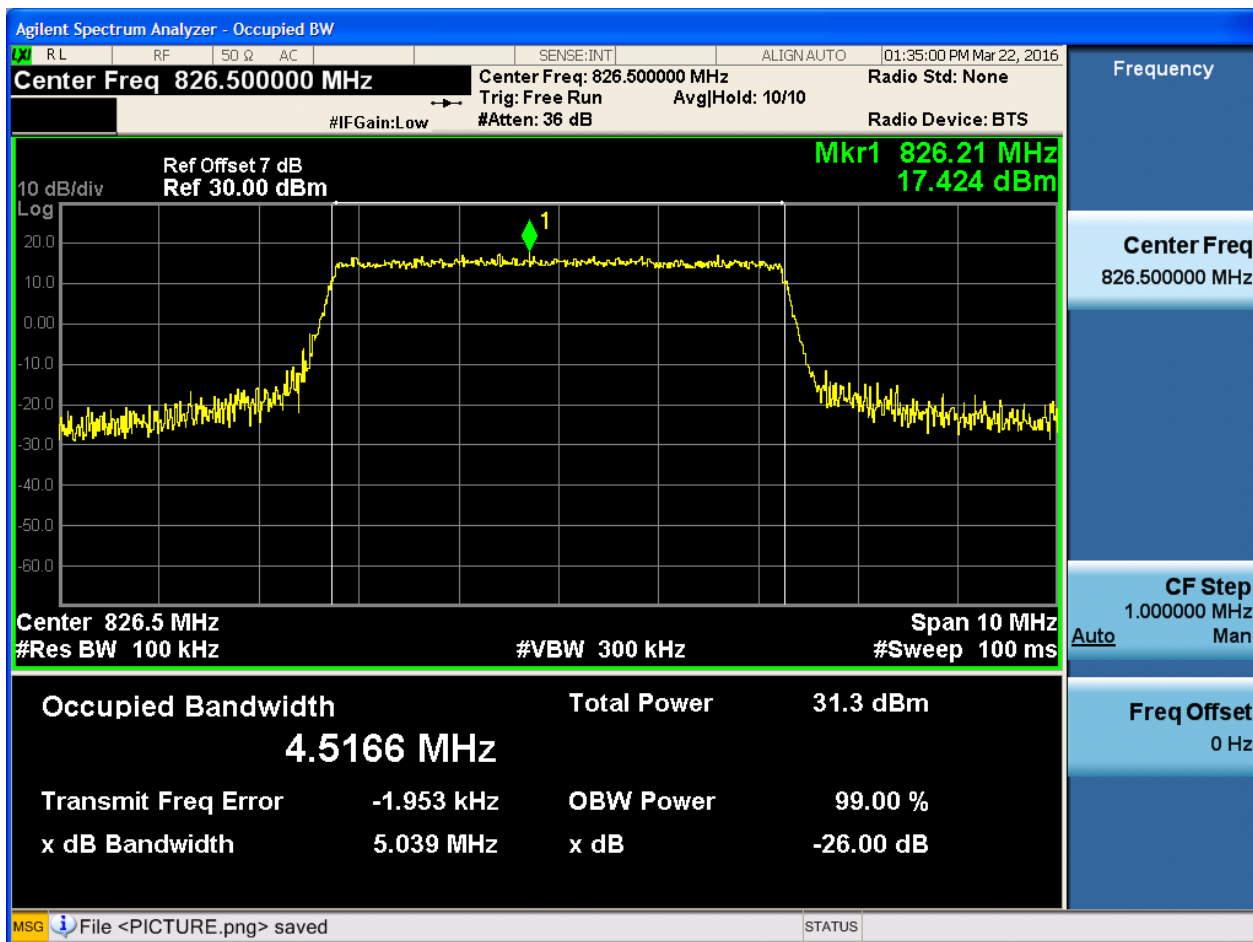




4.1.1.1.3 Test Bandwidth = 5

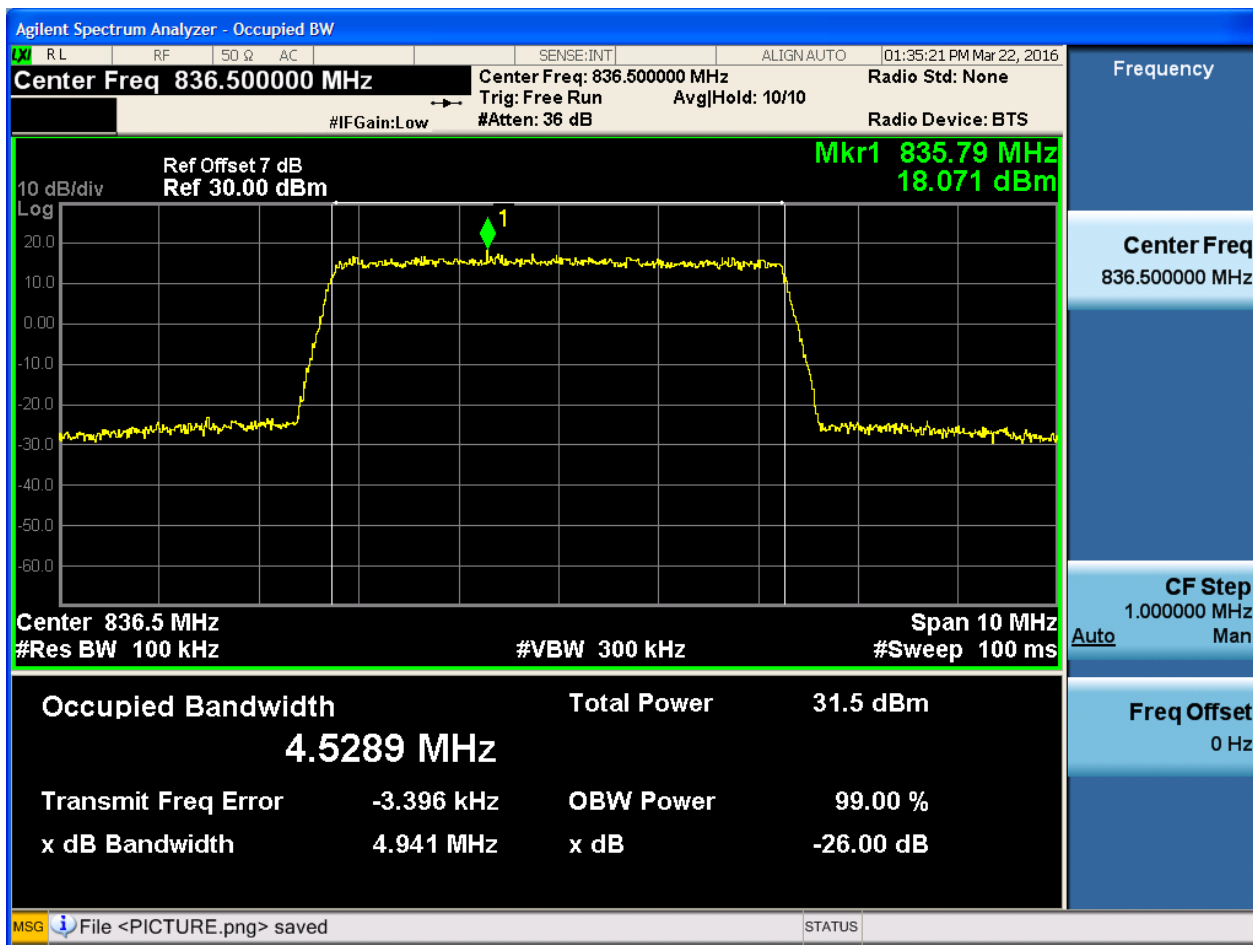
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



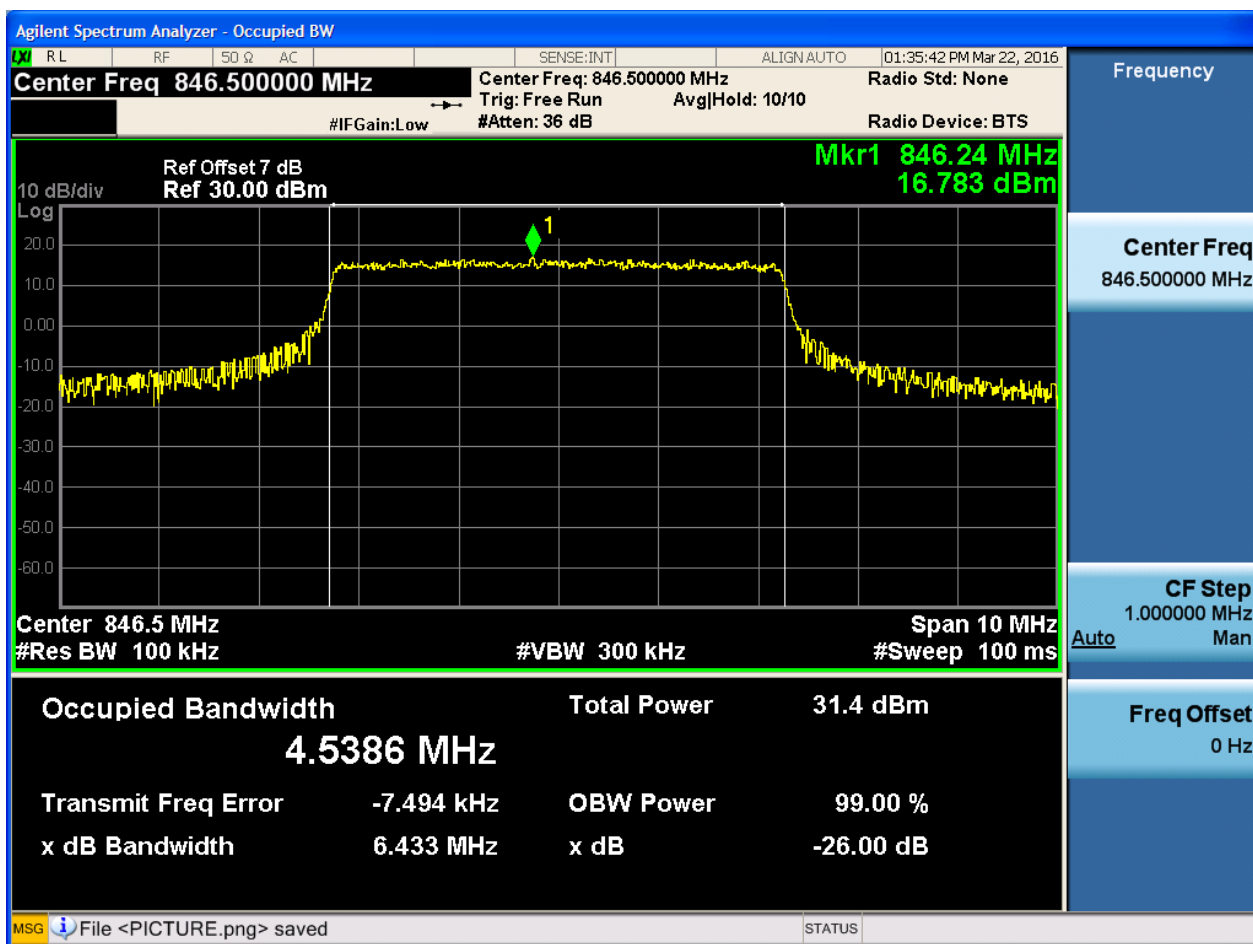
4.1.1.1.3.2 Test Channel = MCH

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

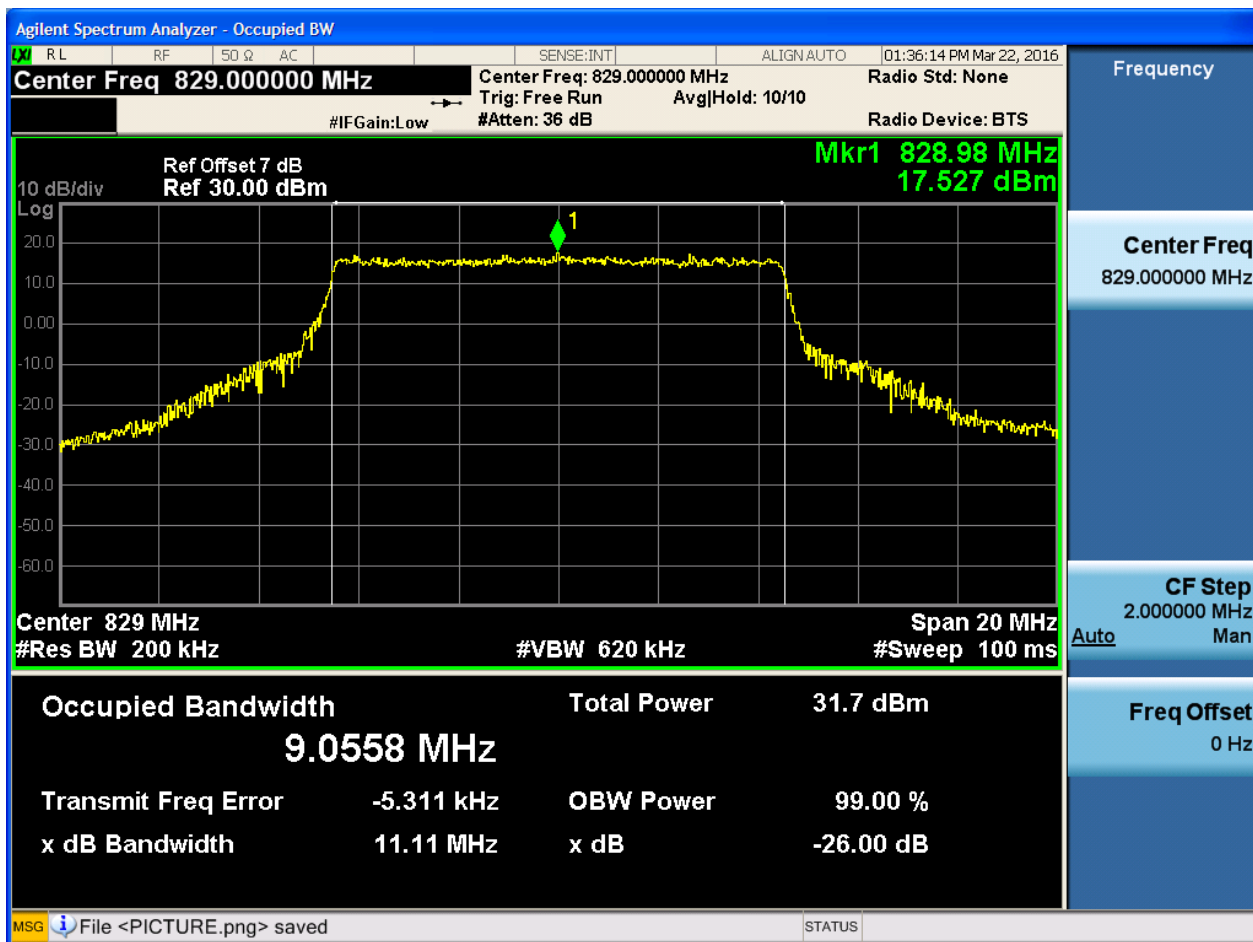




4.1.1.1.4 Test Bandwidth = 10

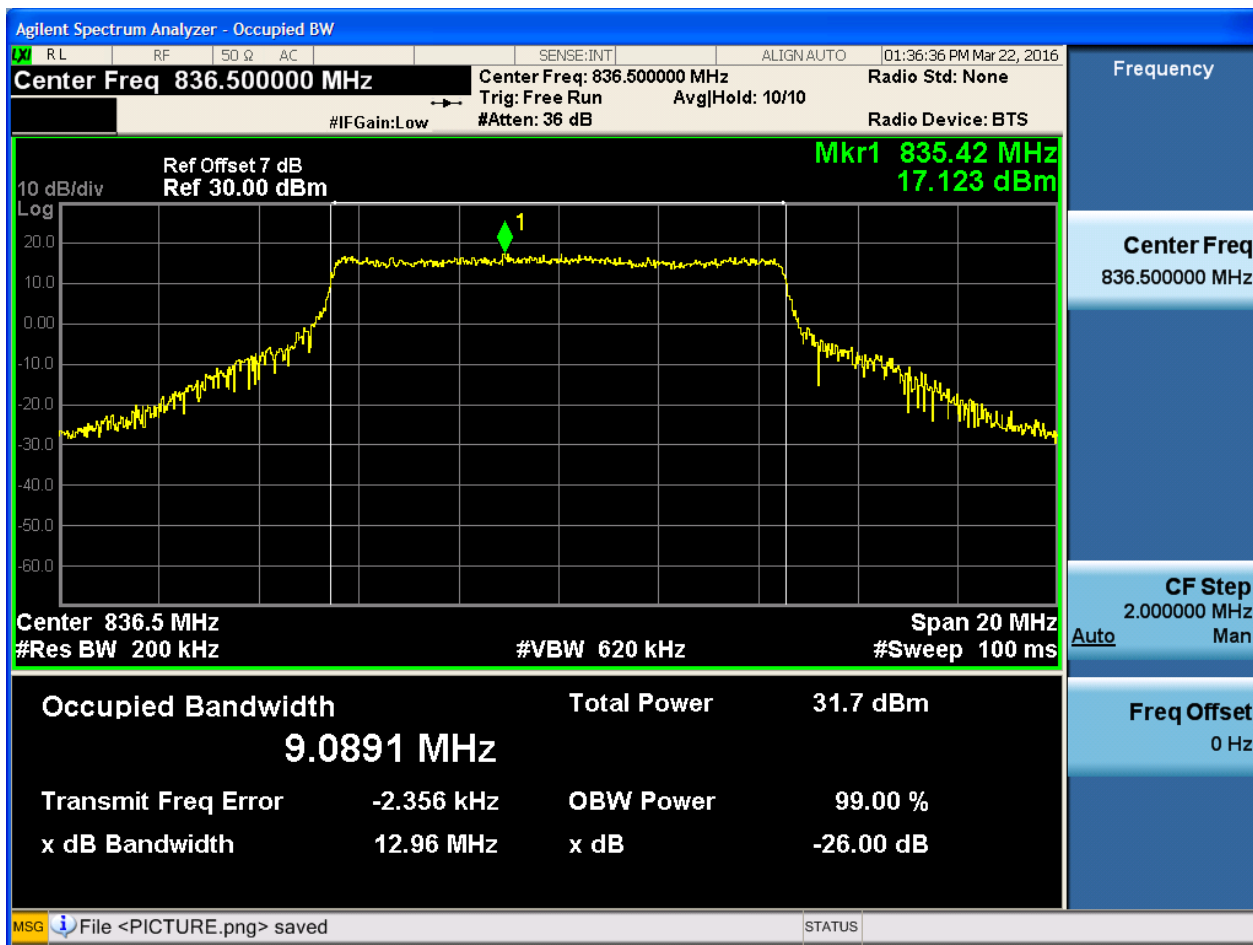
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



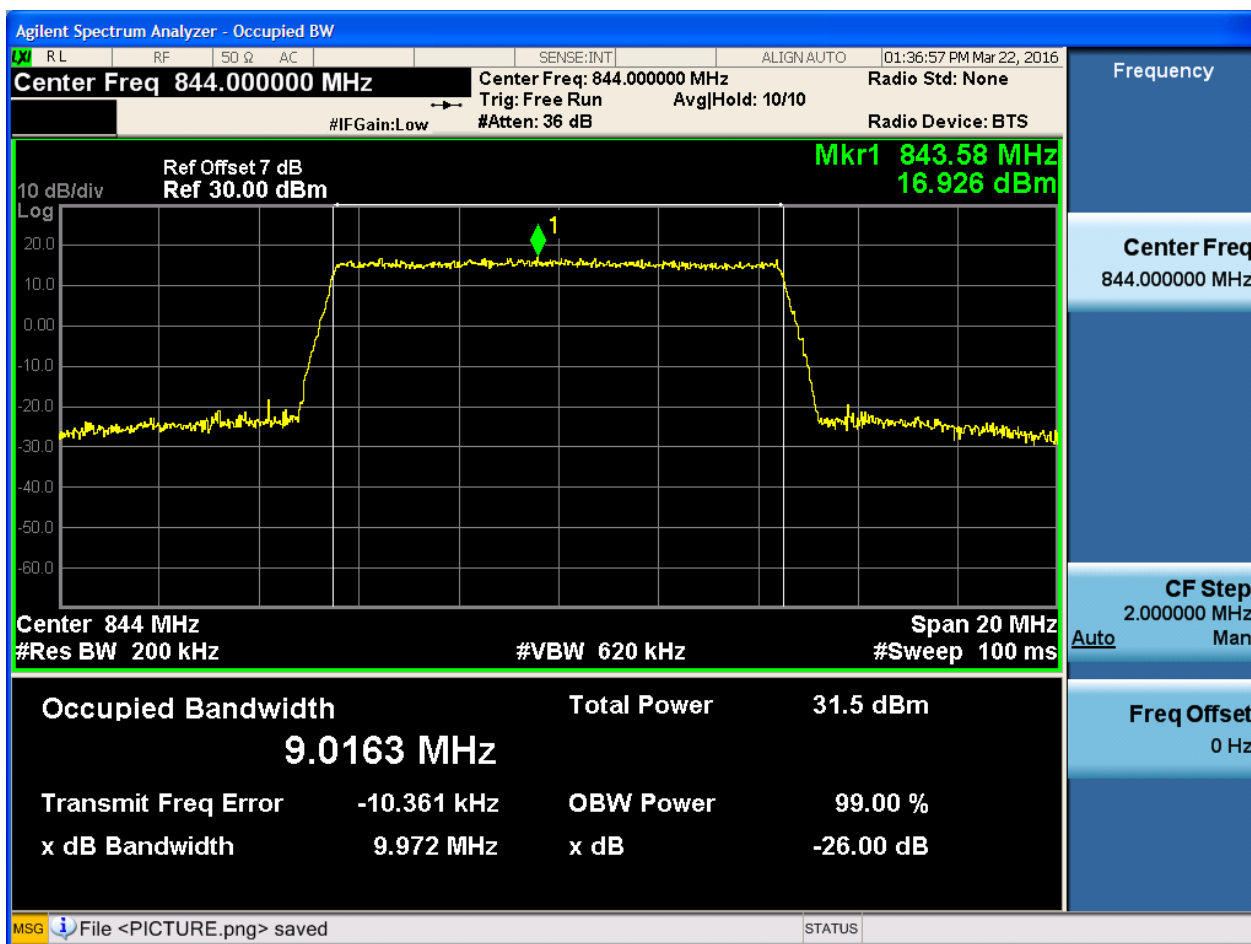
4.1.1.1.4.2 Test Channel = MCH

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

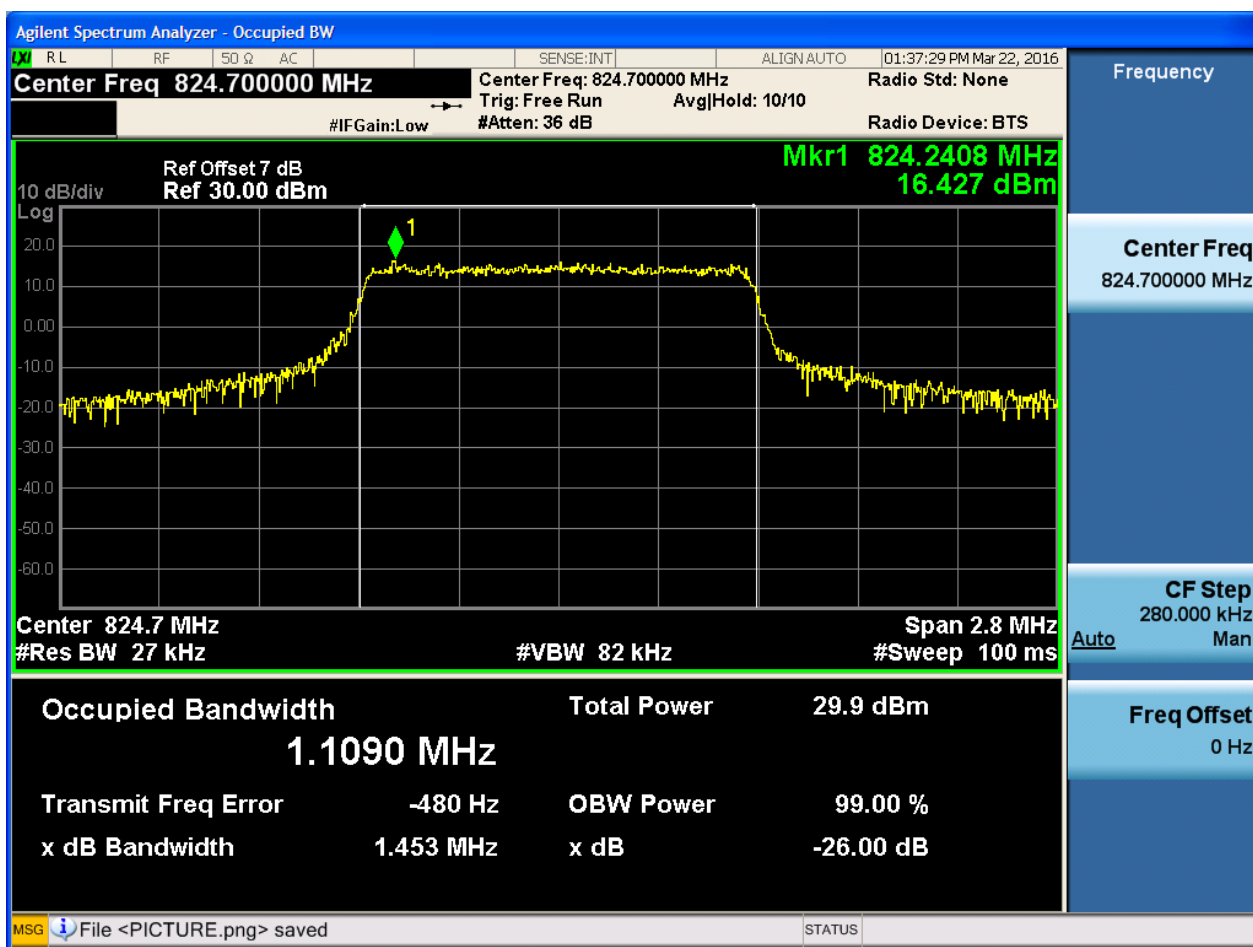


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

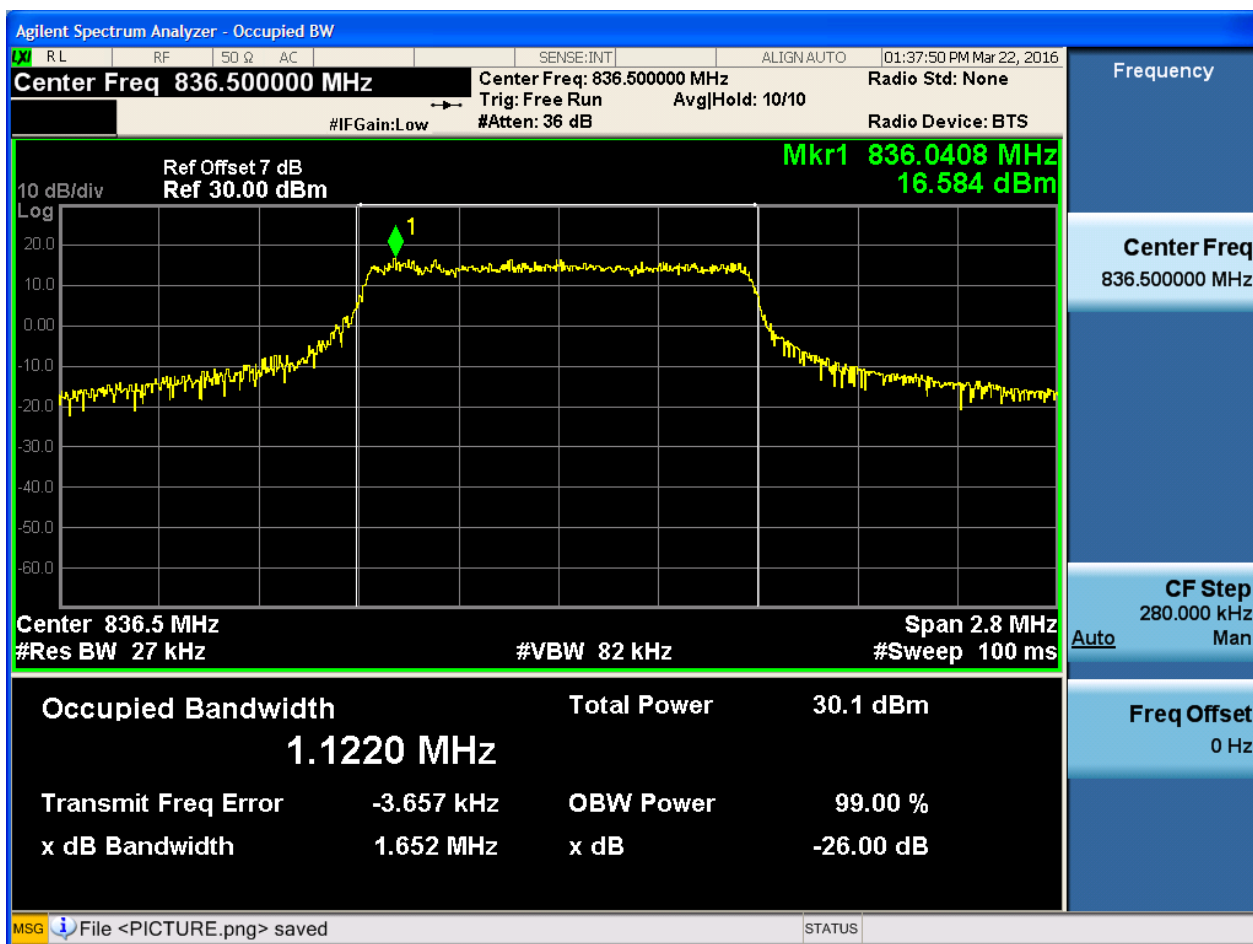
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



4.1.1.2.1.2 Test Channel = MCH

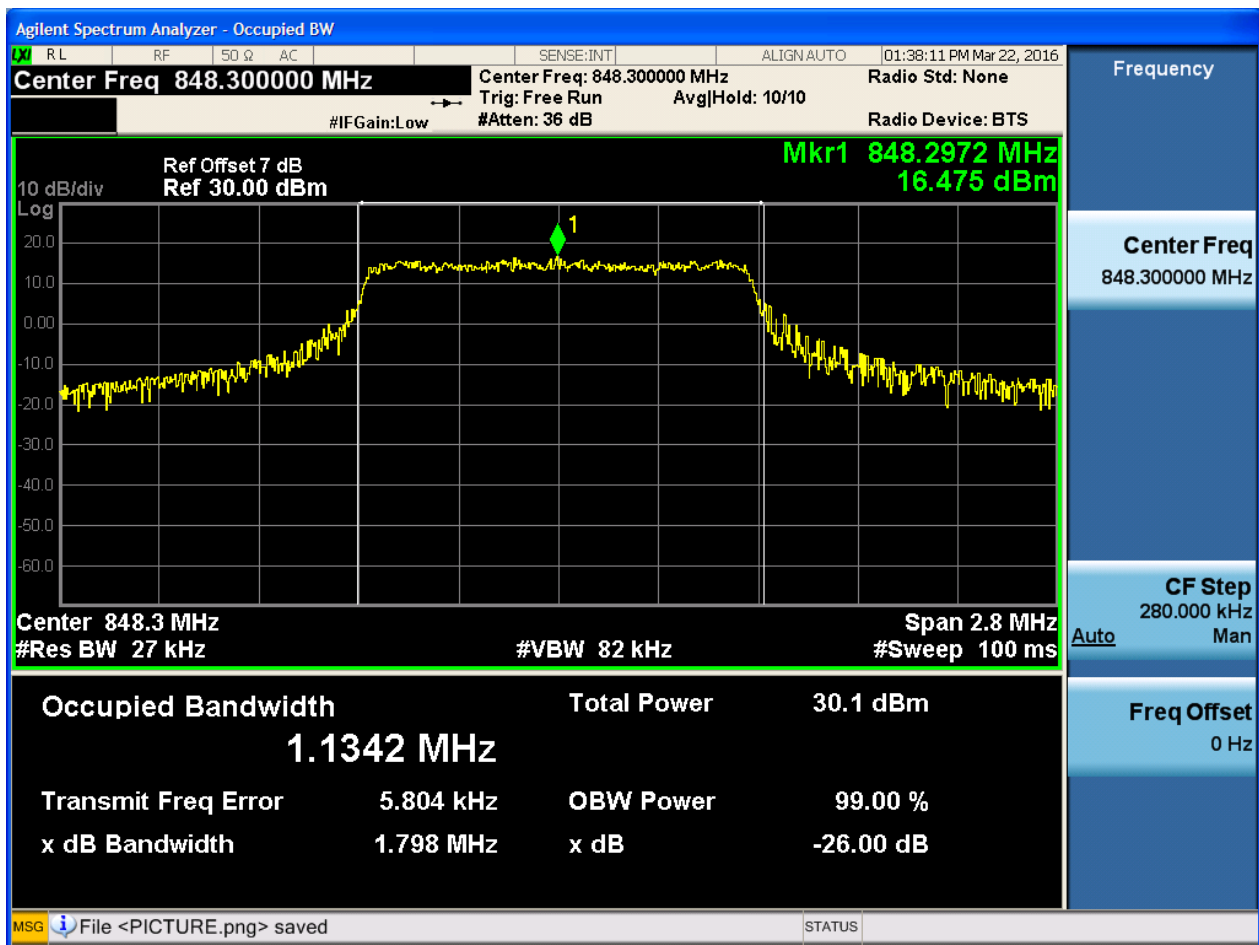
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

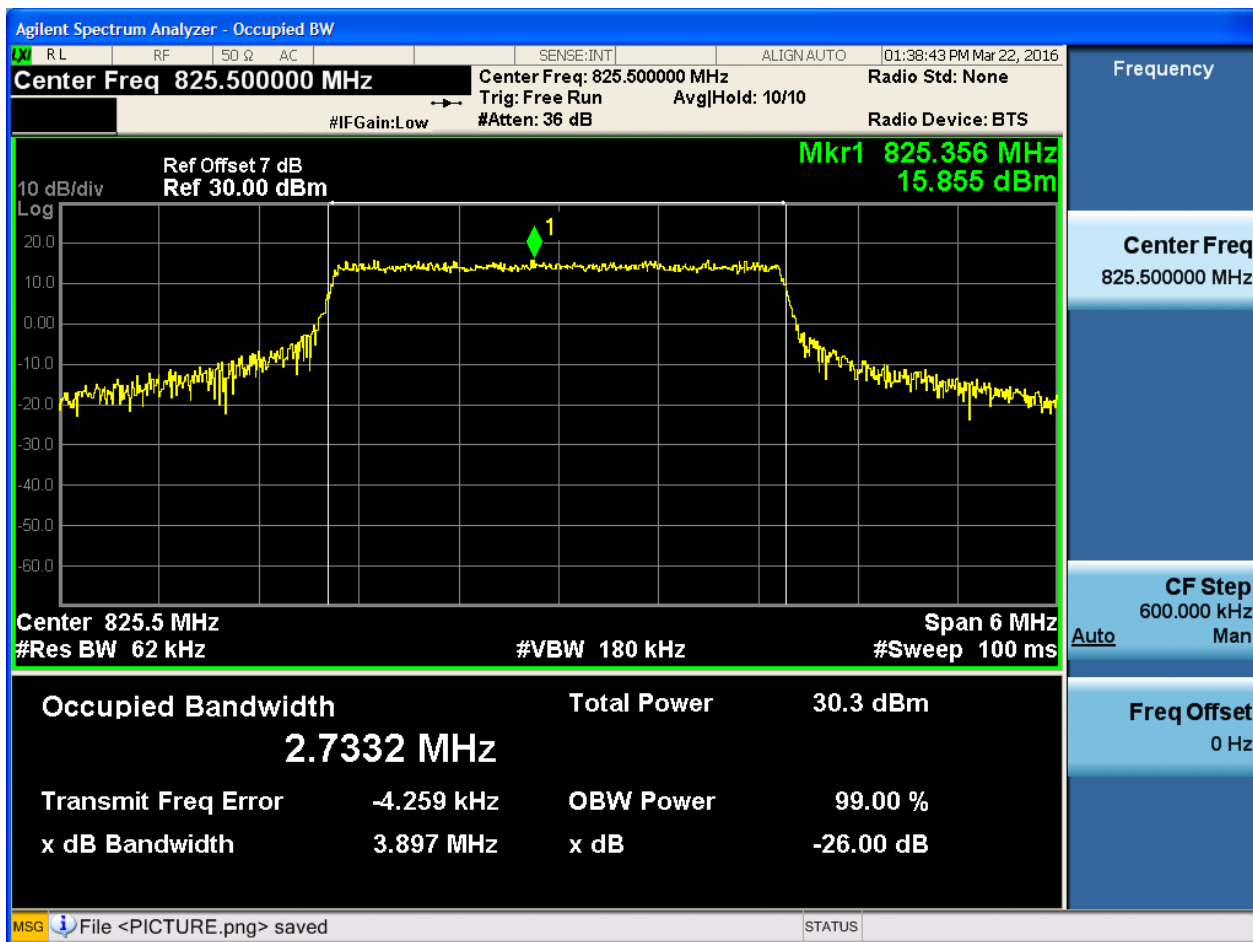




4.1.1.2.2 Test Bandwidth = 3

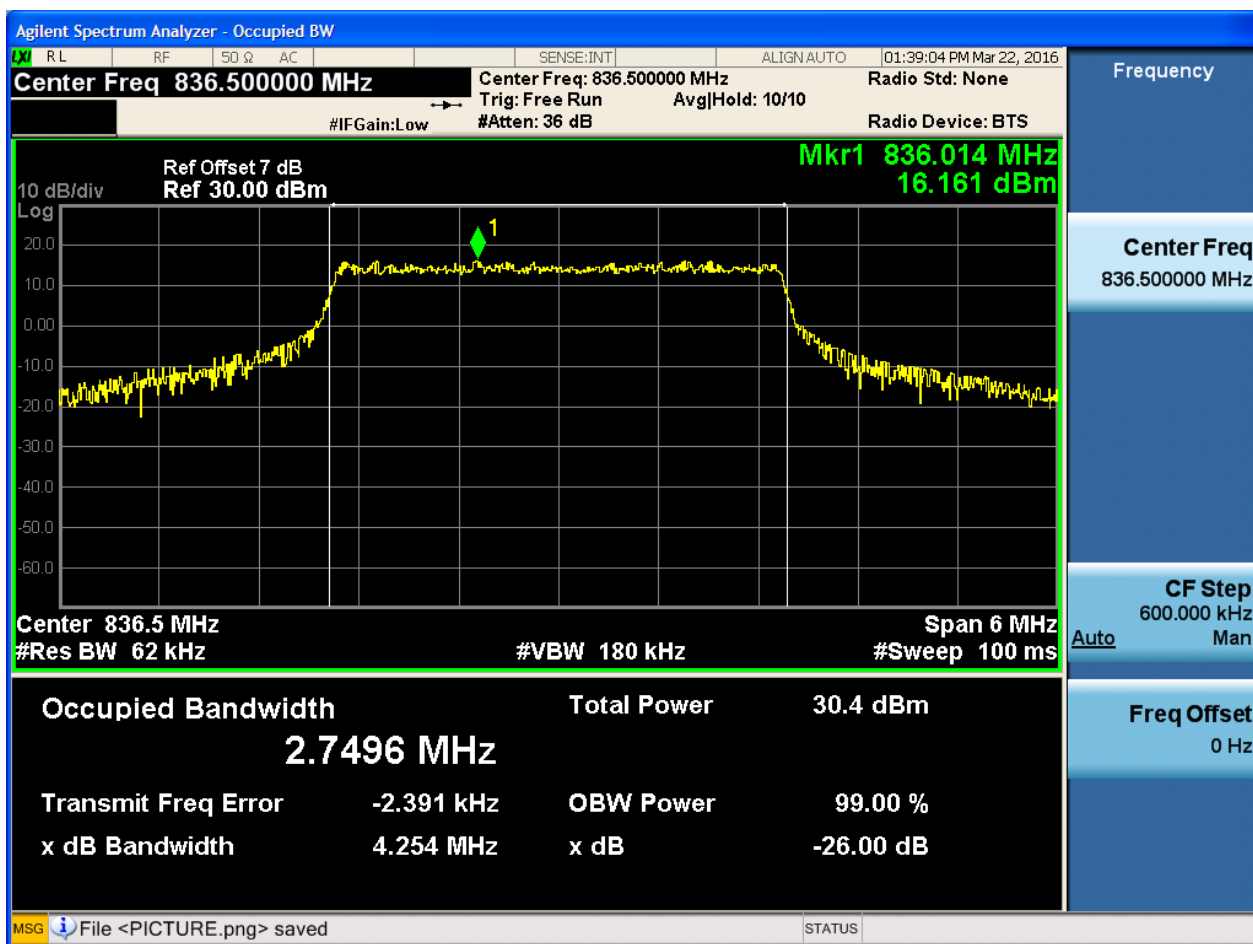
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



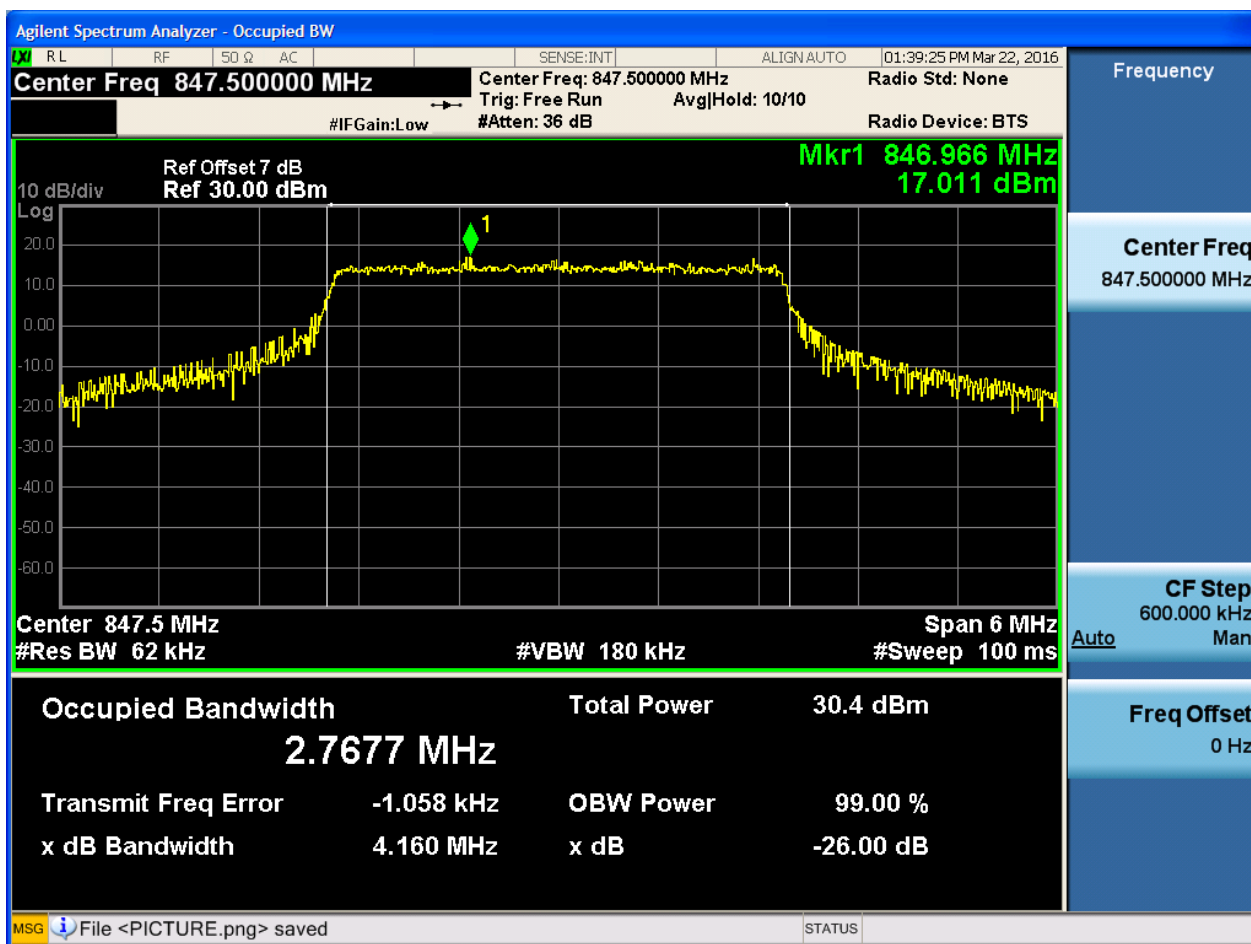
4.1.1.2.2.2 Test Channel = MCH

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

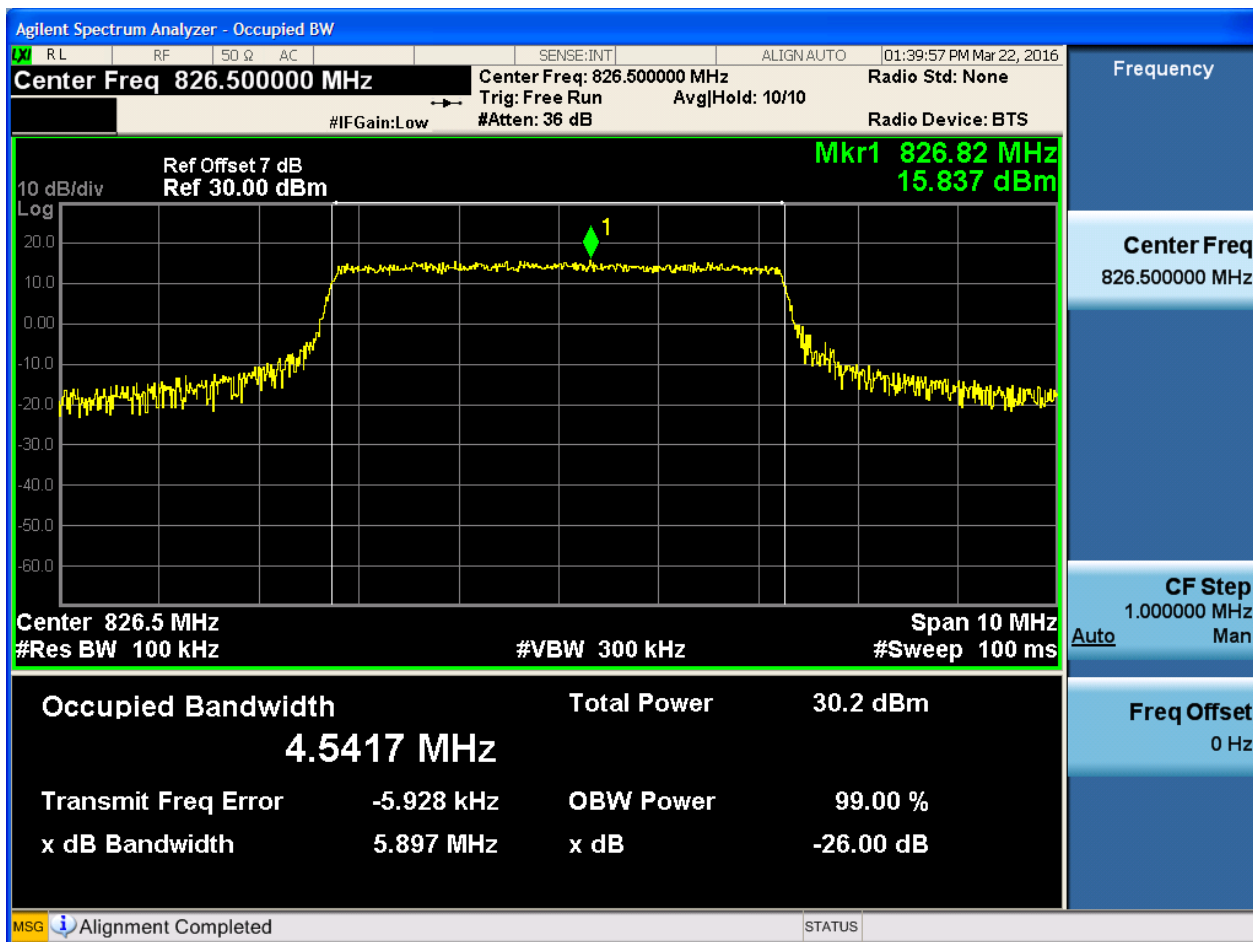




4.1.1.2.3 Test Bandwidth = 5

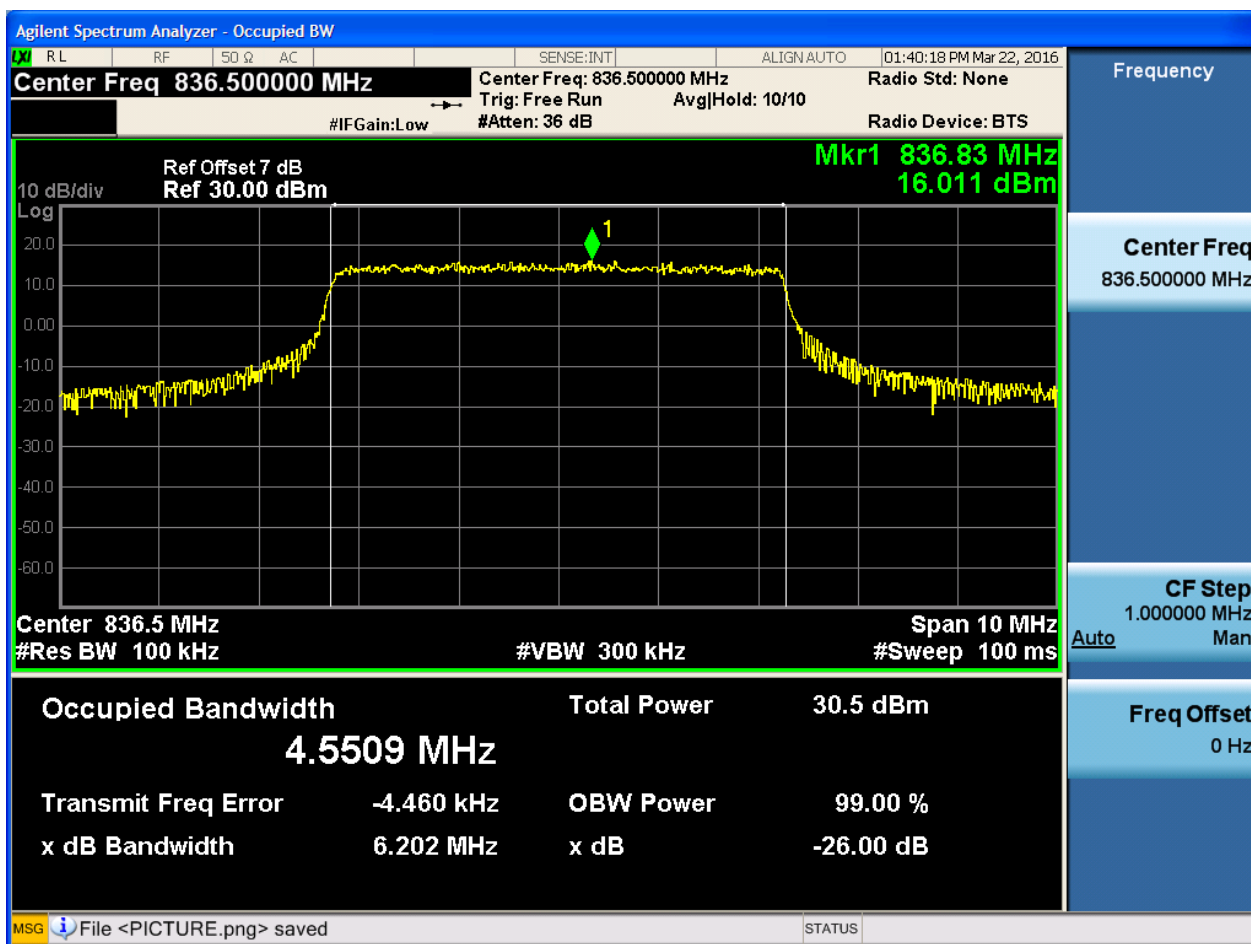
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



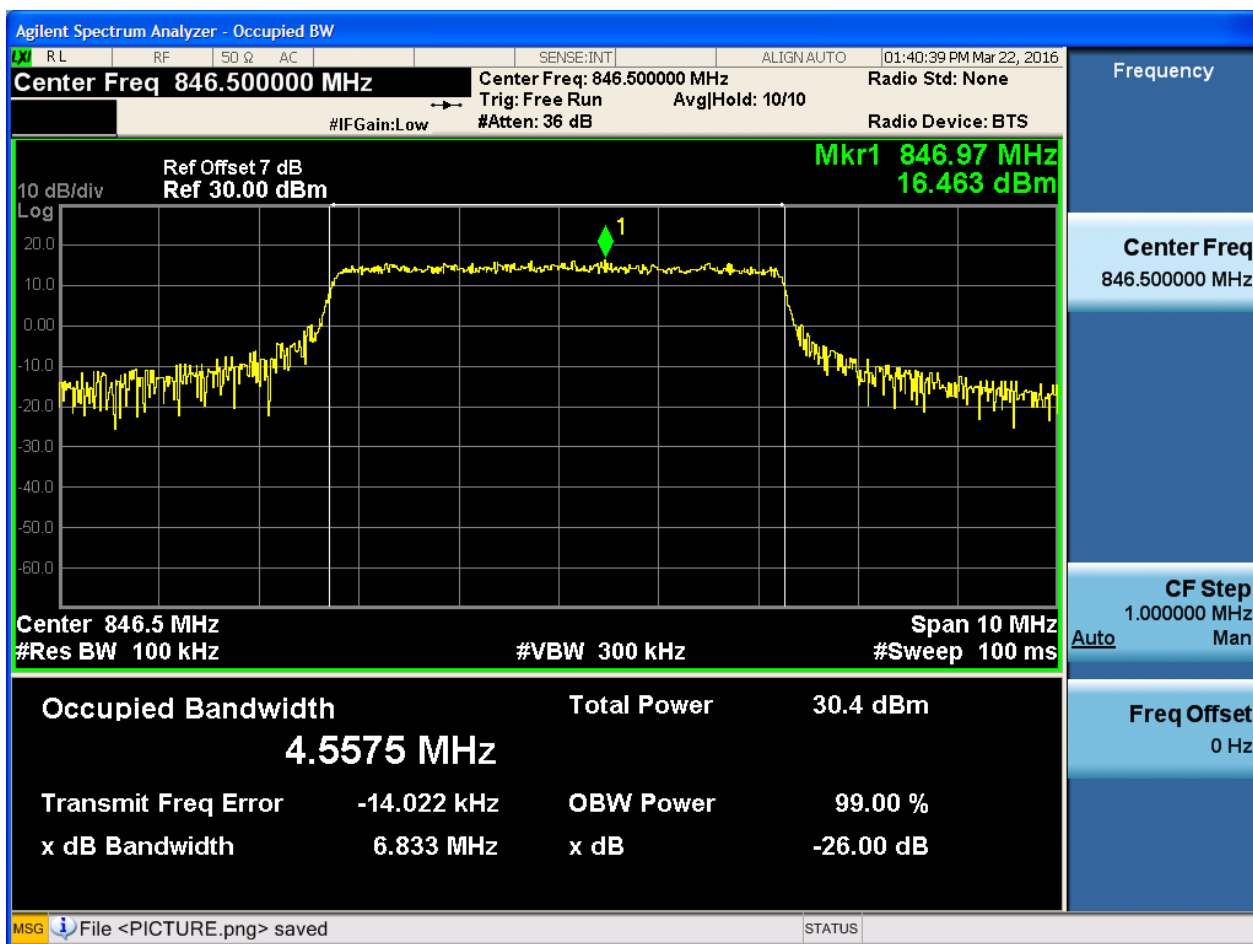
4.1.1.2.3.2 Test Channel = MCH

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

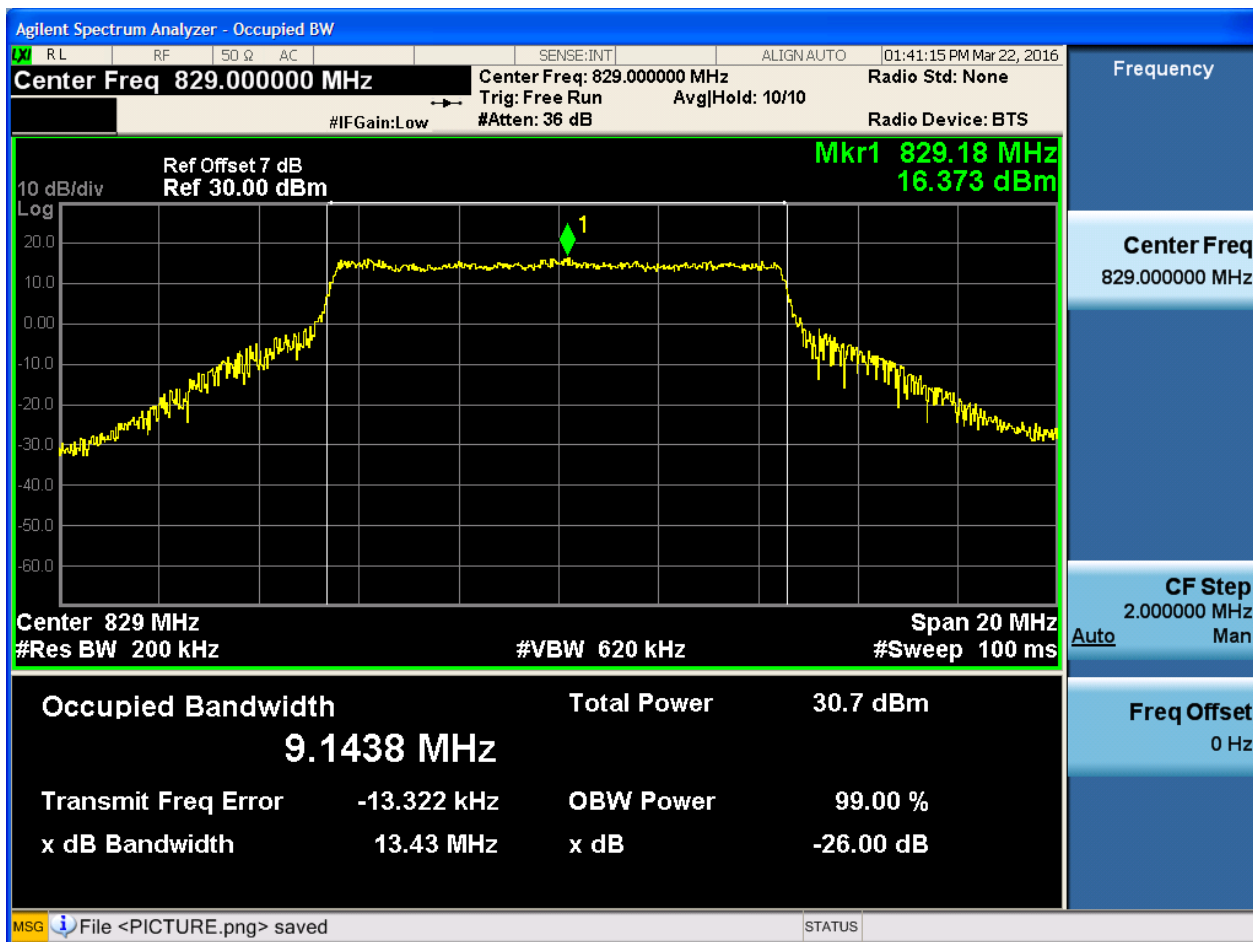




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

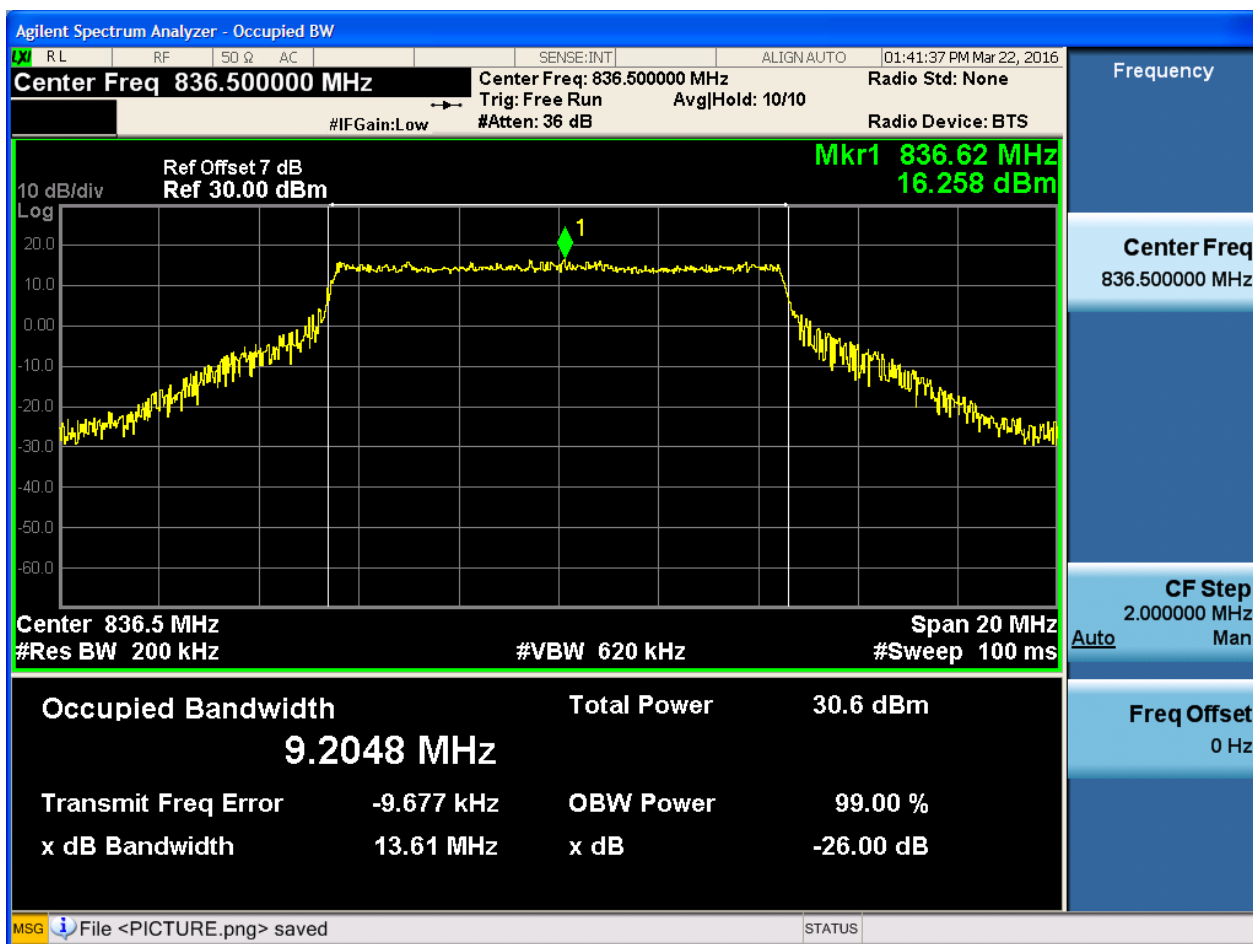
4.1.1.2.4.1.1 Test RB = RB50#0





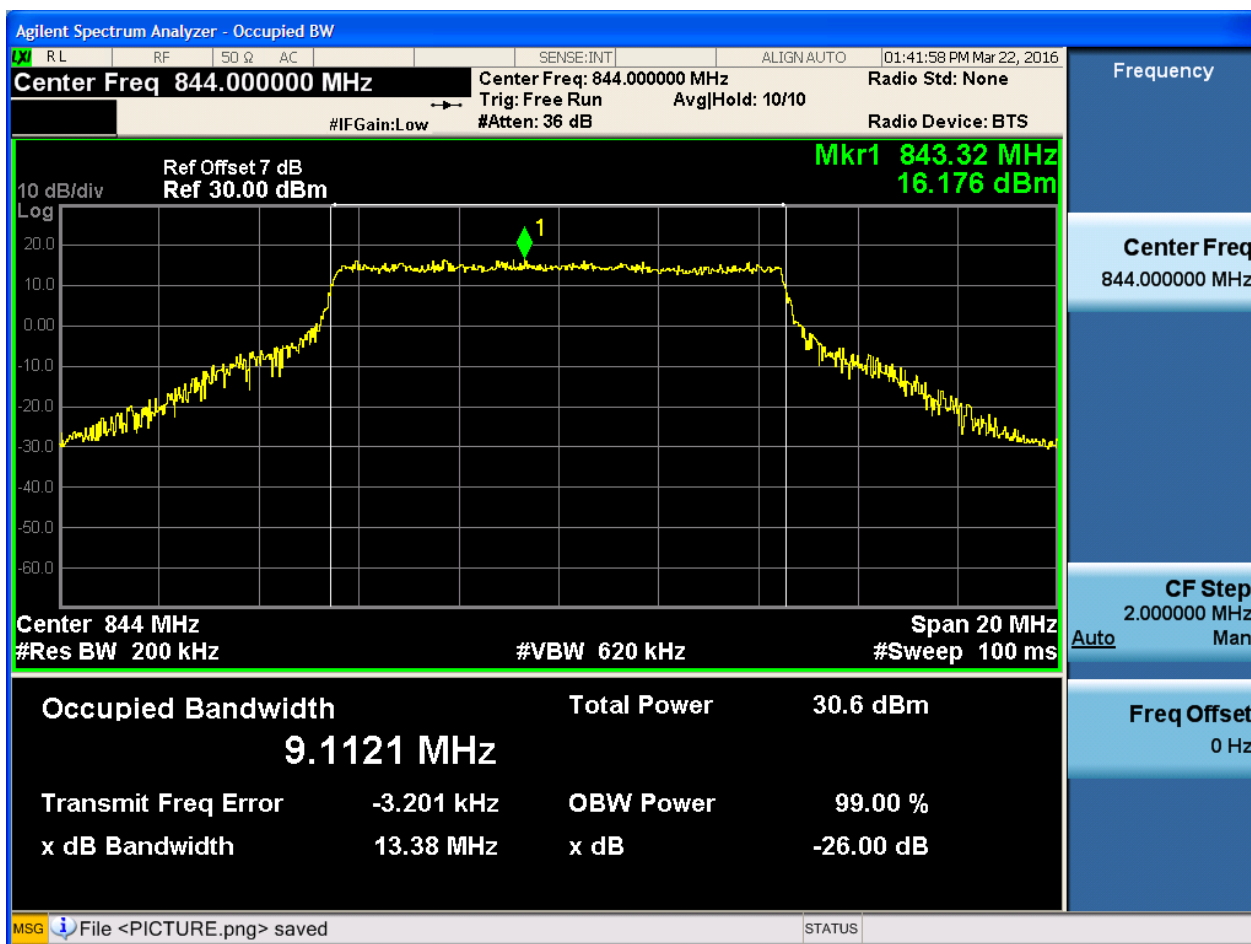
4.1.1.2.4.2 Test Channel = MCH

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

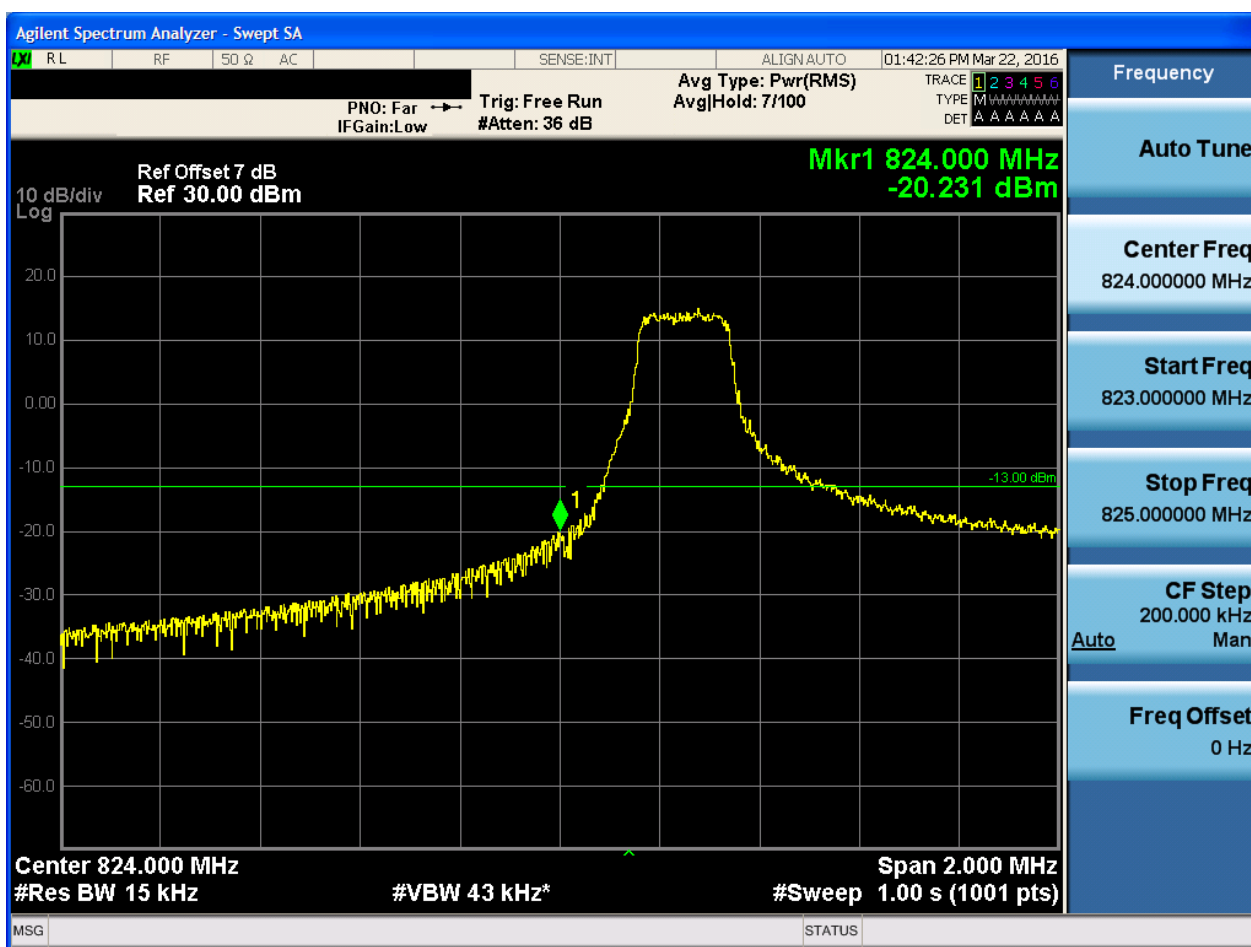
5.1.1 Test Band = BAND5

5.1.1.1 Test Mode = LTE/TM1

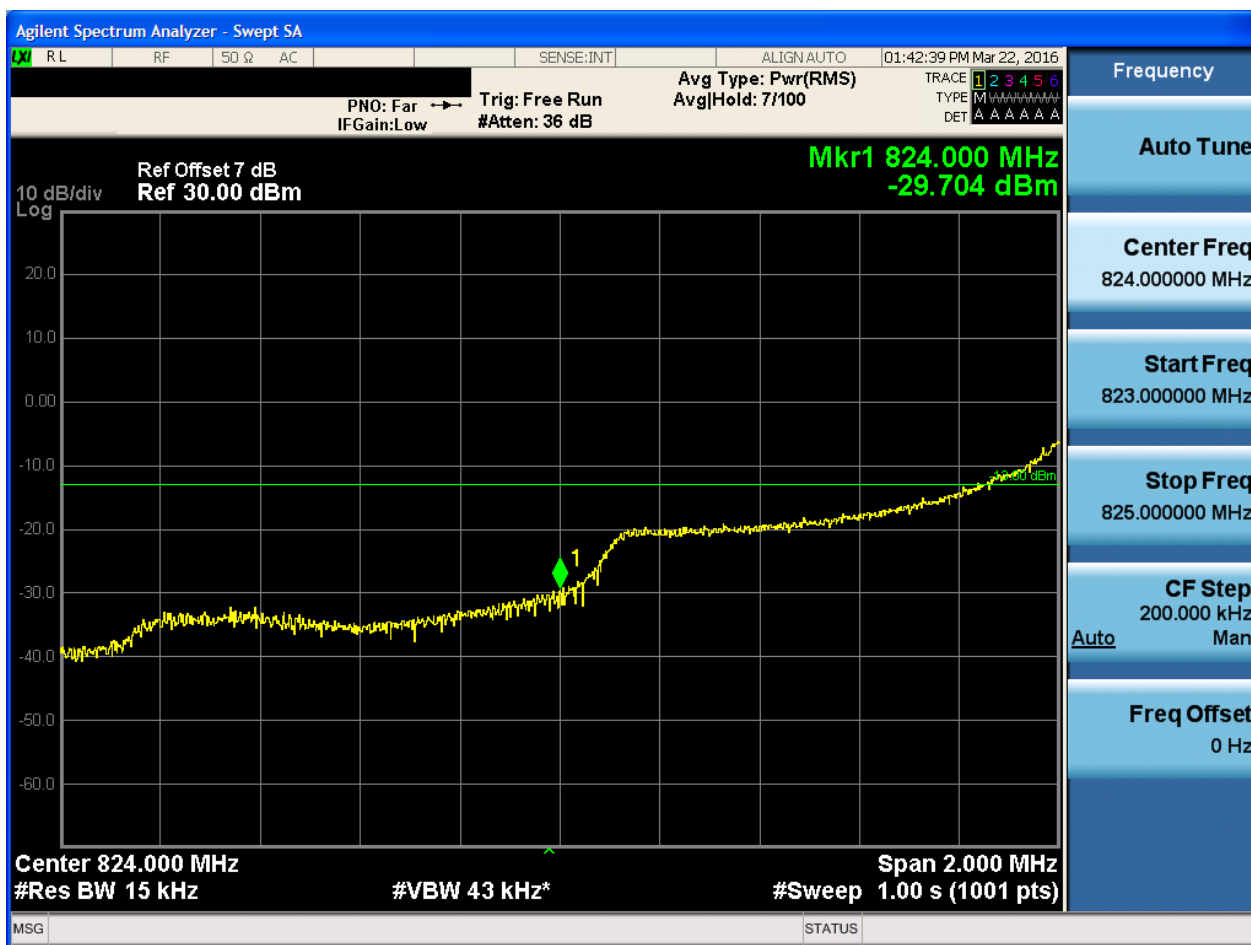
5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0

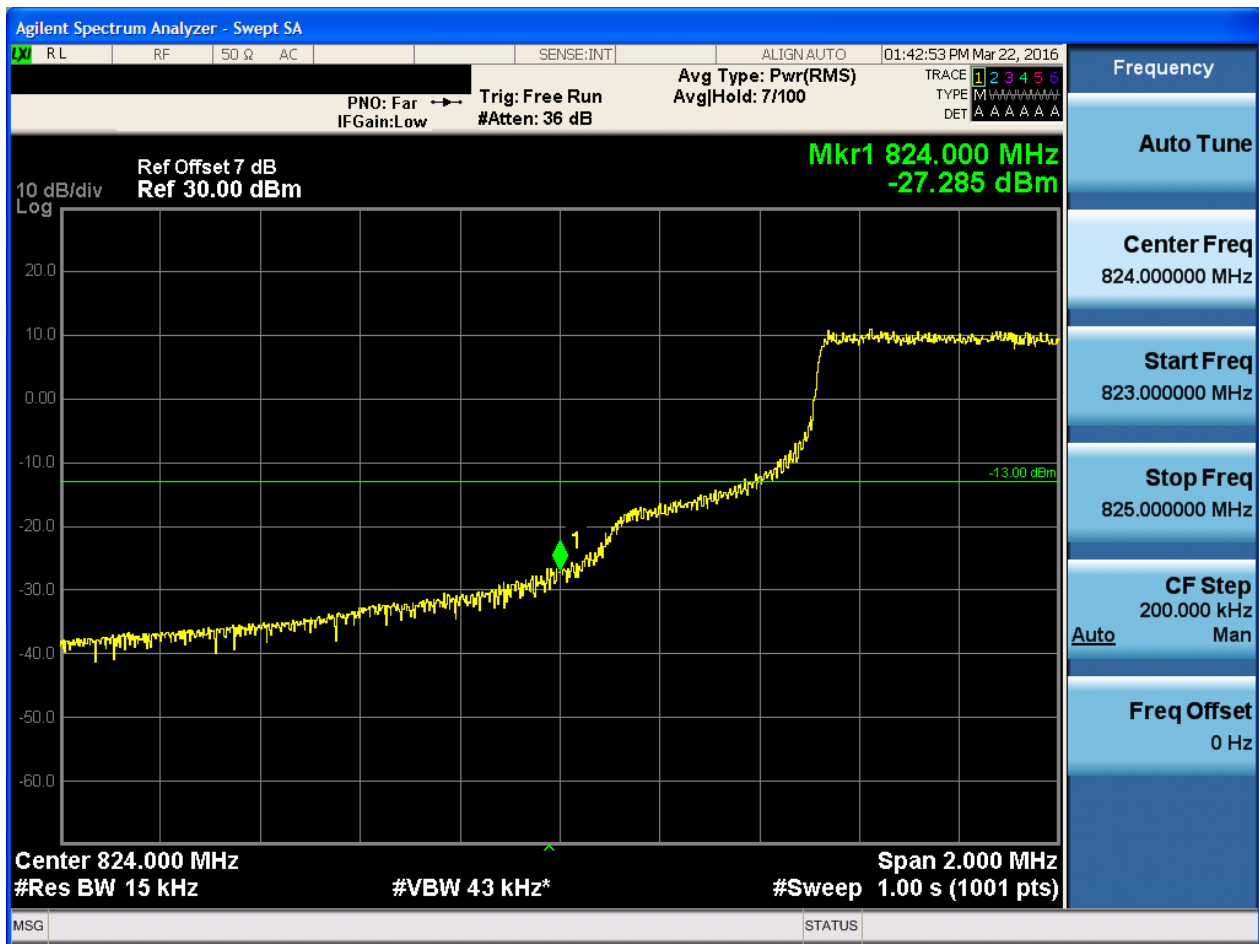


5.1.1.1.1.1.2 Test RB = RB1#5



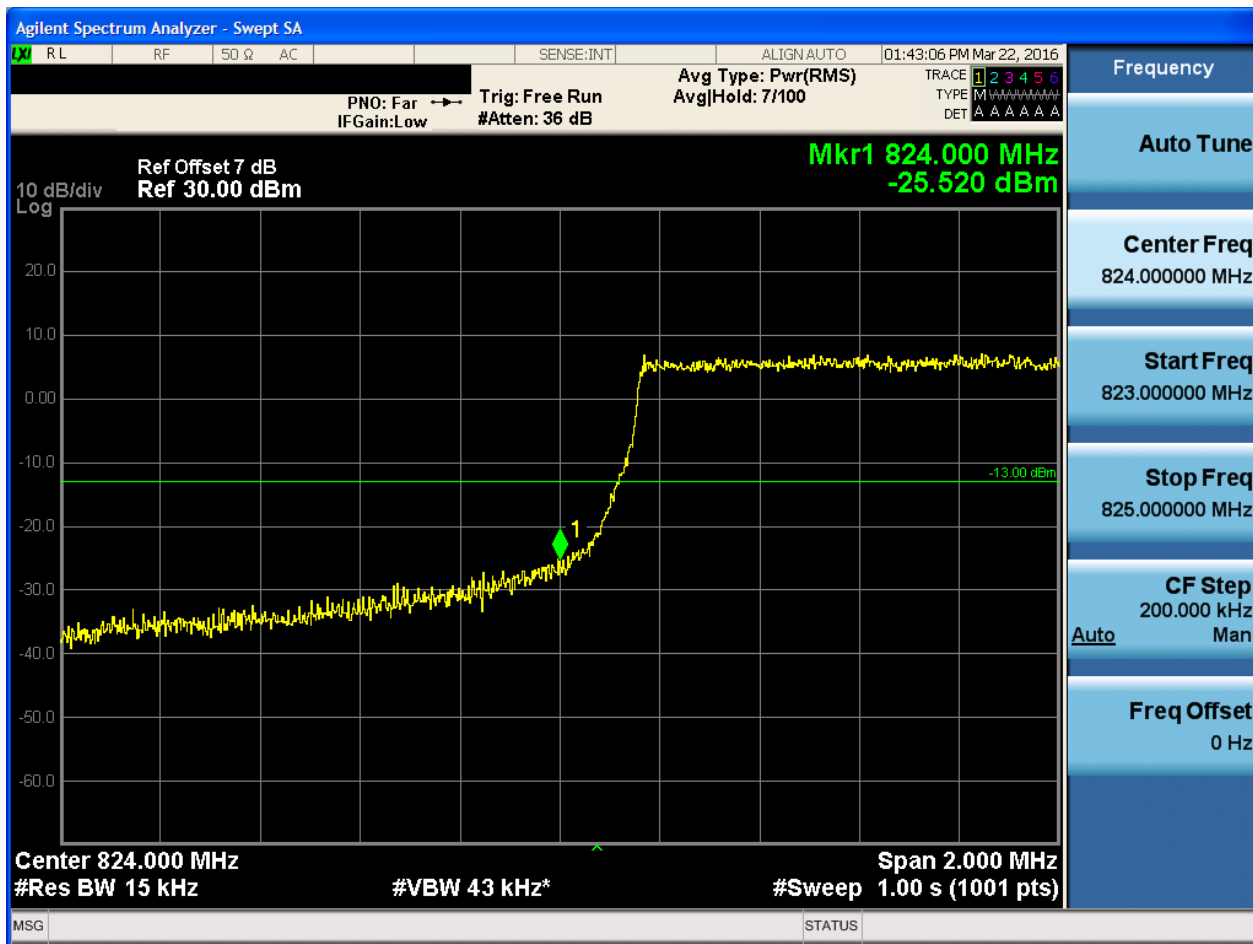


5.1.1.1.1.3 Test RB = RB3#2





5.1.1.1.1.4 Test RB = RB6#0





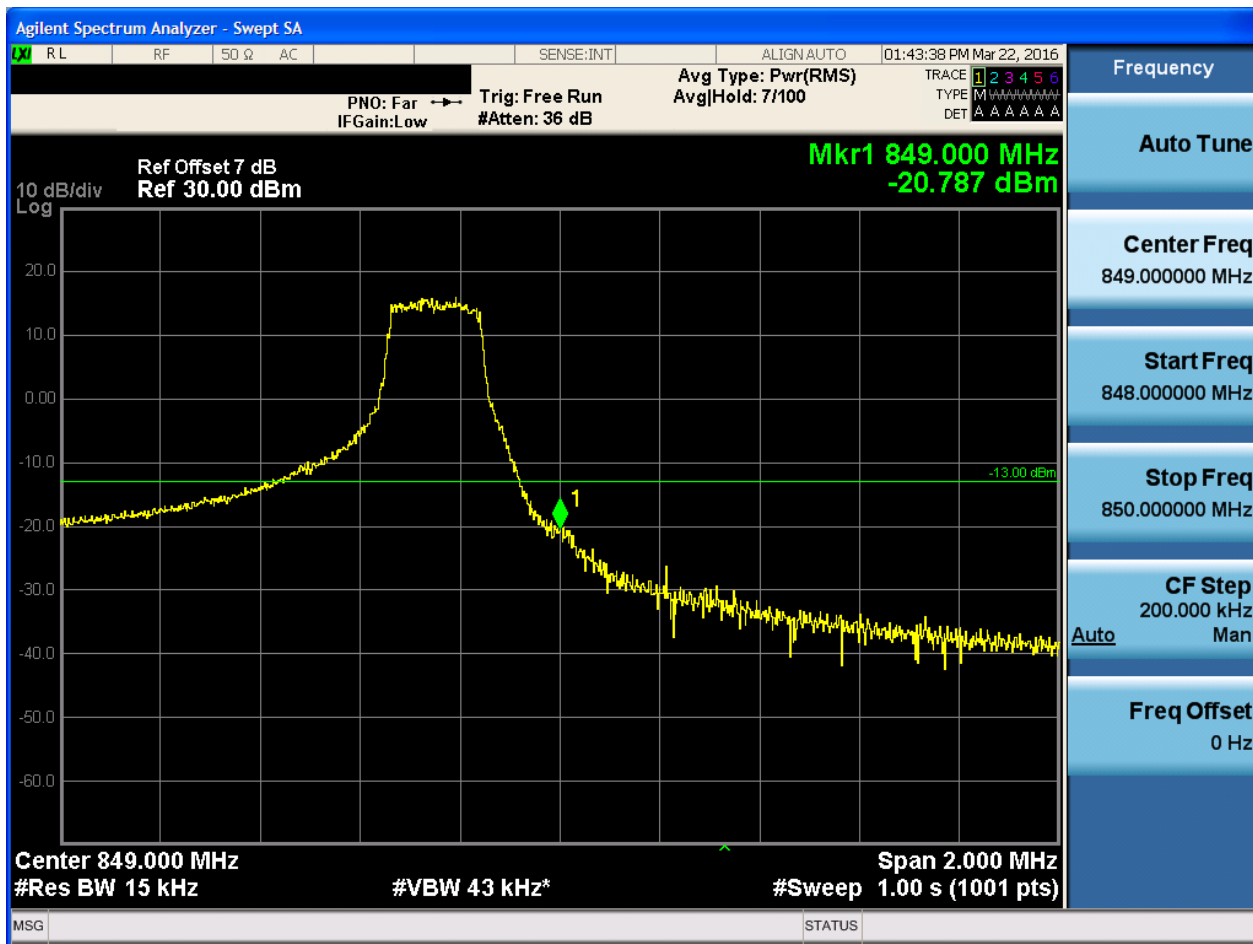
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#5



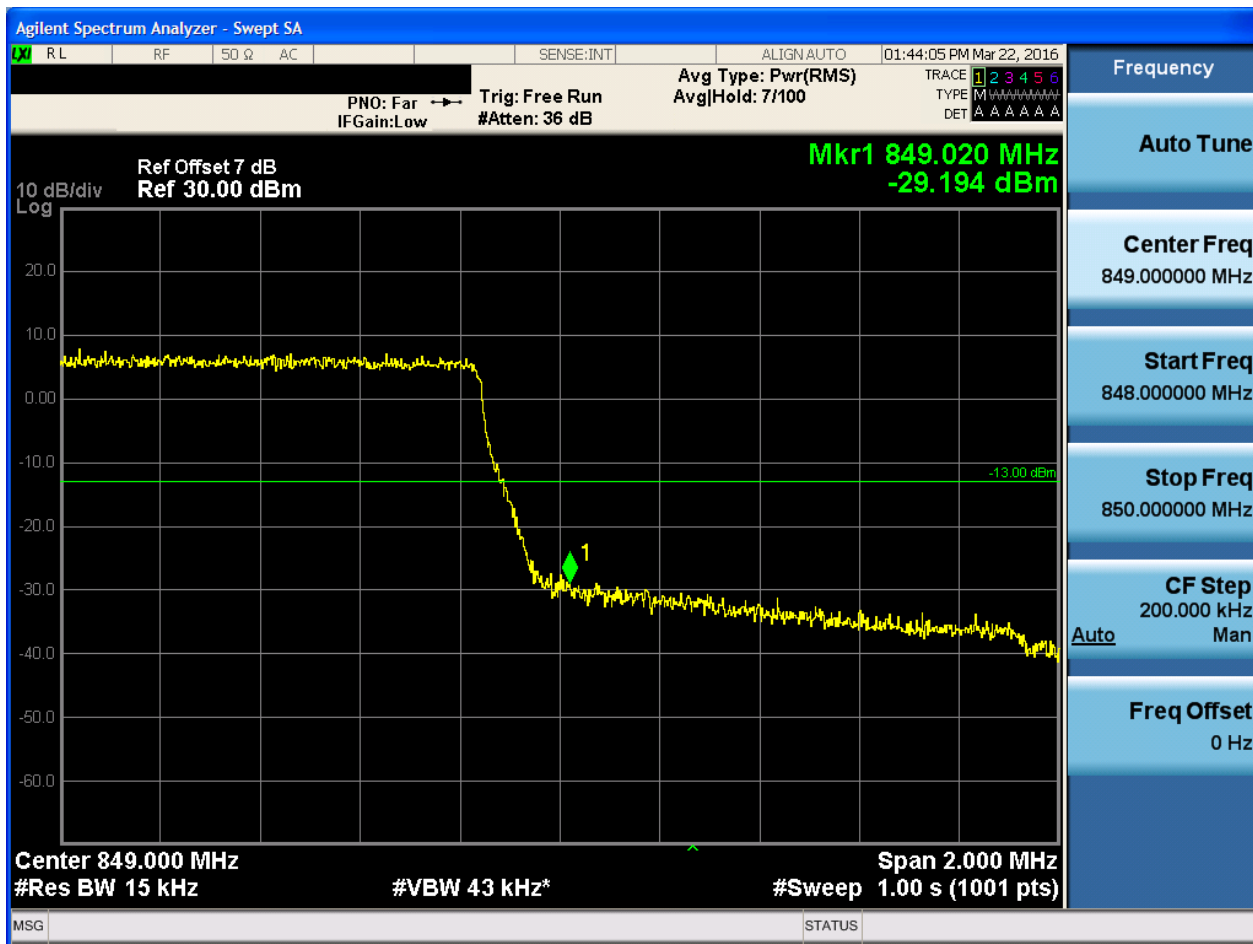


5.1.1.1.2.3 Test RB = RB3#2





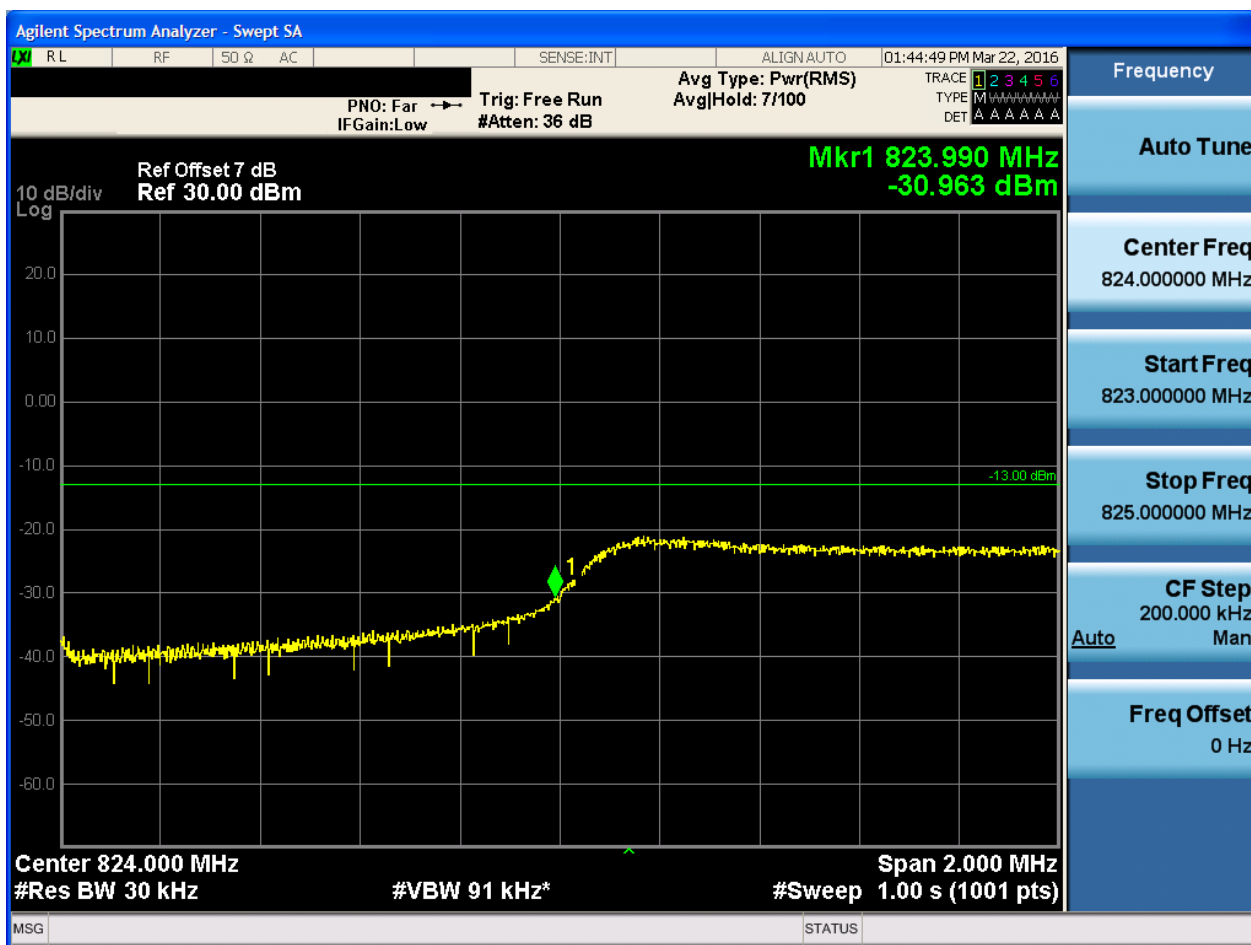
5.1.1.1.2.4 Test RB = RB6#0





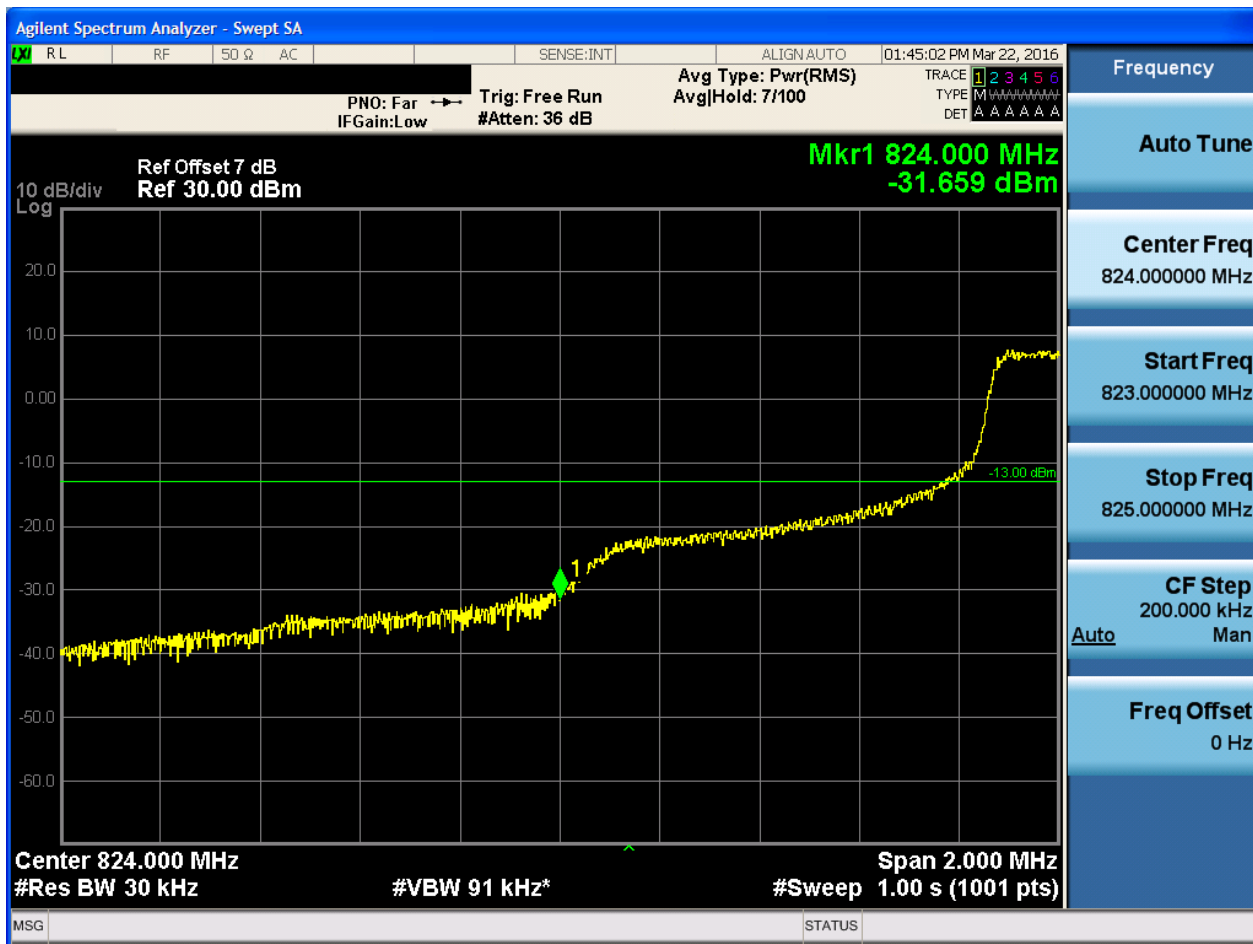
5.1.1.1.2.1.1 Test RB = RB1#0

5.1.1.1.2.1.2 Test RB = RB1#14



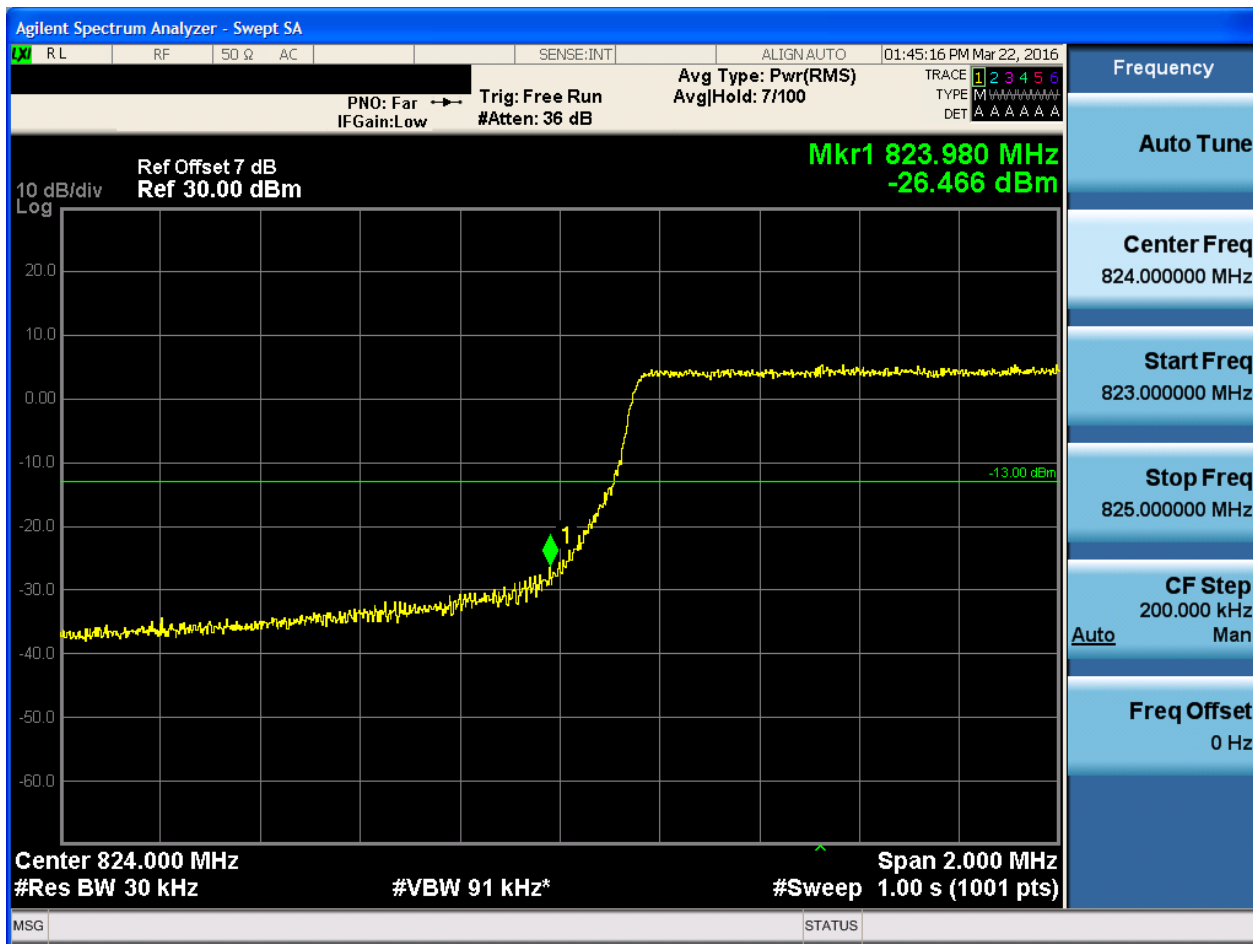


5.1.1.1.2.1.3 Test RB = RB8#4



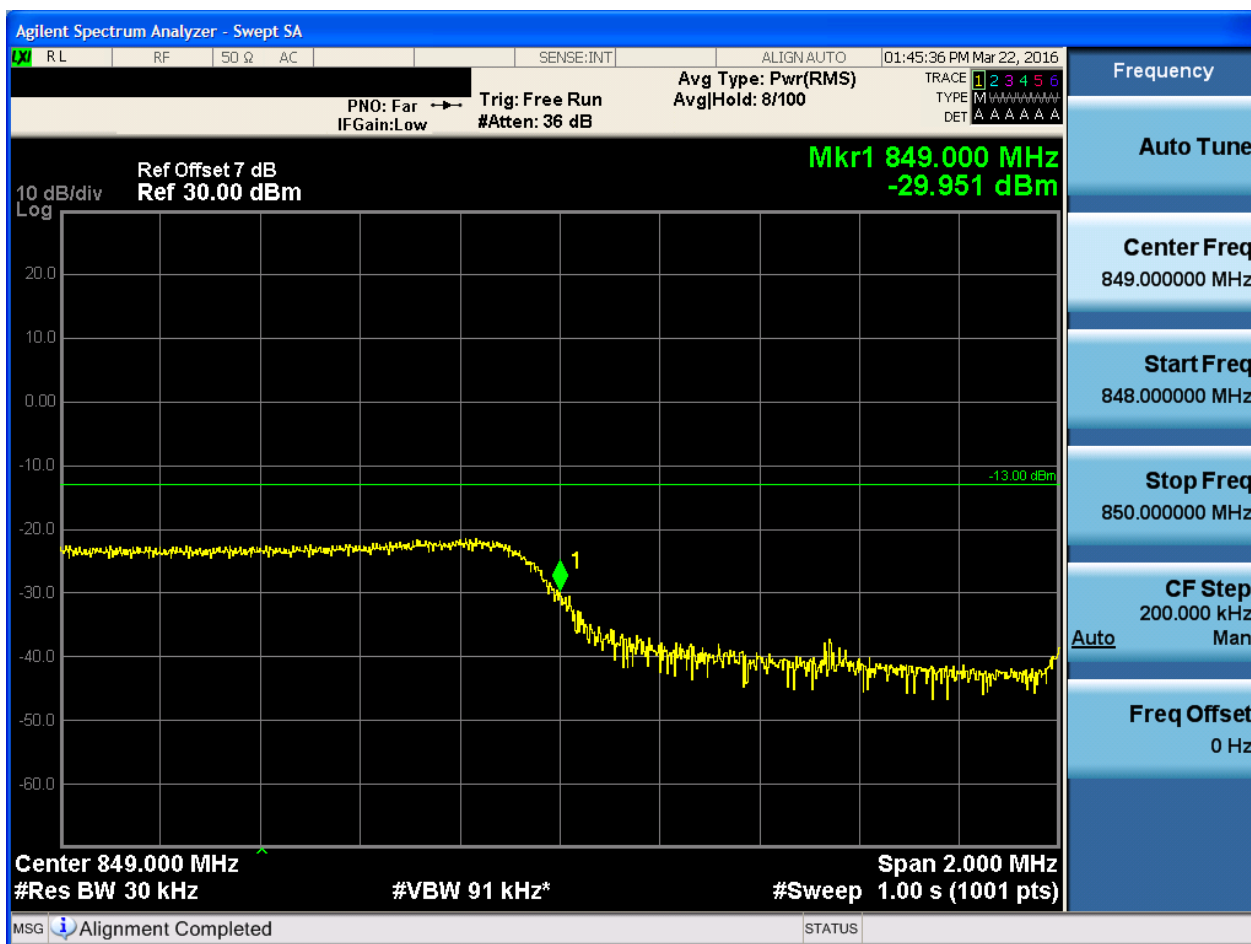


5.1.1.1.2.1.4 Test RB = RB15#0



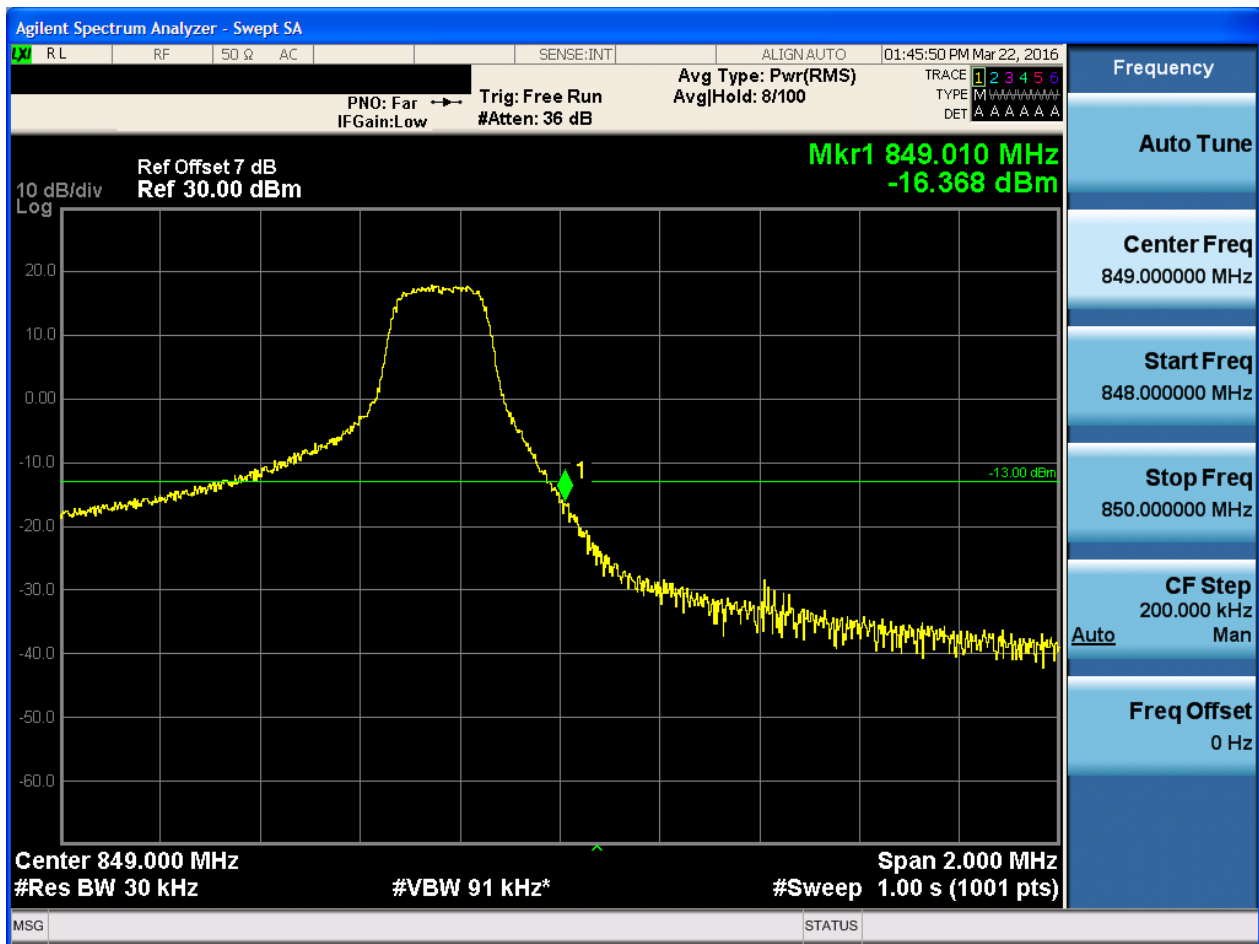
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14



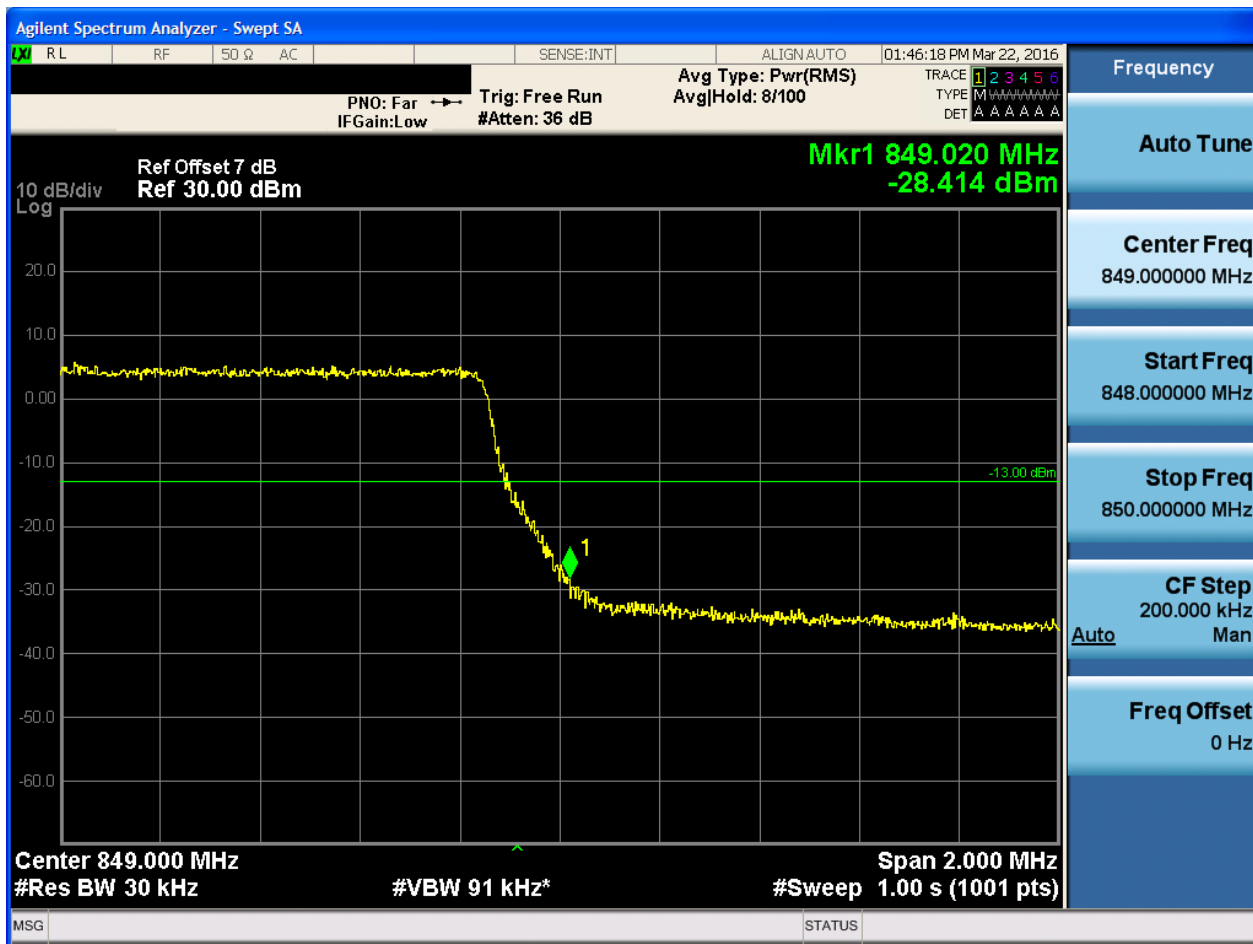


5.1.1.1.2.2.3 Test RB = RB8#4





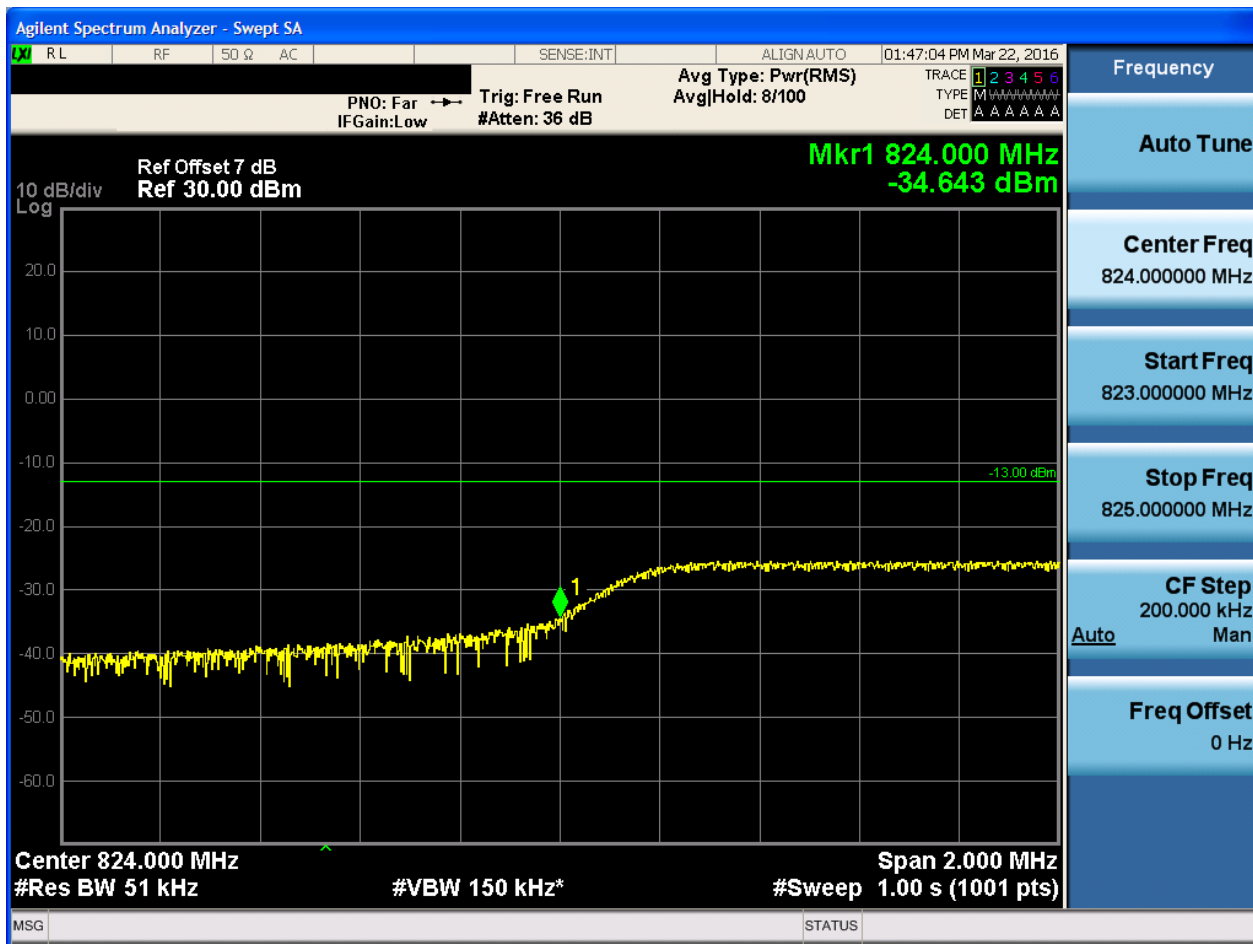
5.1.1.1.2.2.4 Test RB = RB15#0



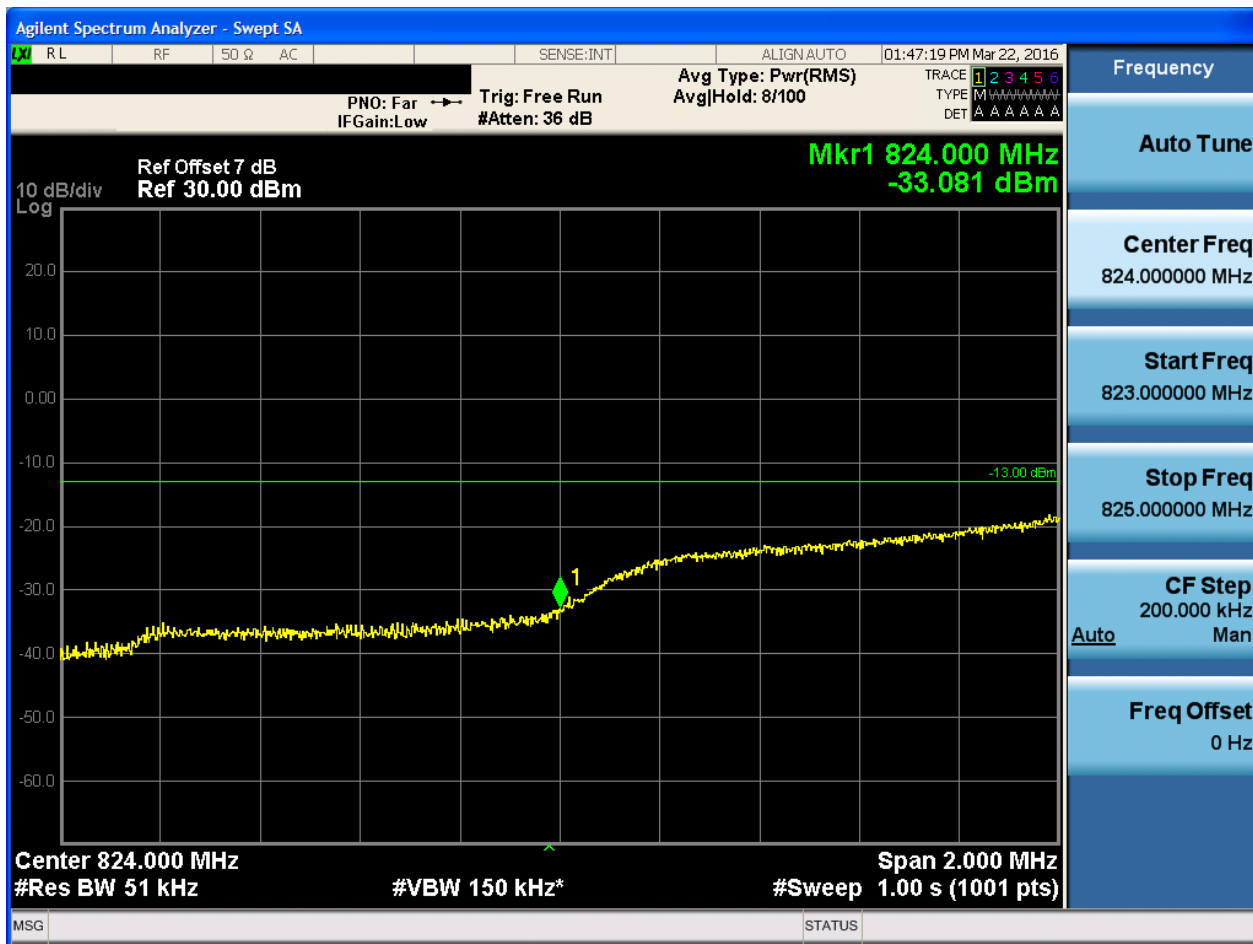




5.1.1.1.3.1.2 Test RB = RB1#24



5.1.1.1.3.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:47:33 PM Mar 22, 2016

Avg Type: Pwr(RMS) AvgHold: 8/100

Trig: Free Run #Atten: 36 dB

PNO: Far IFGain: Low

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-28.648 dBm

10 dB/div
Log

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

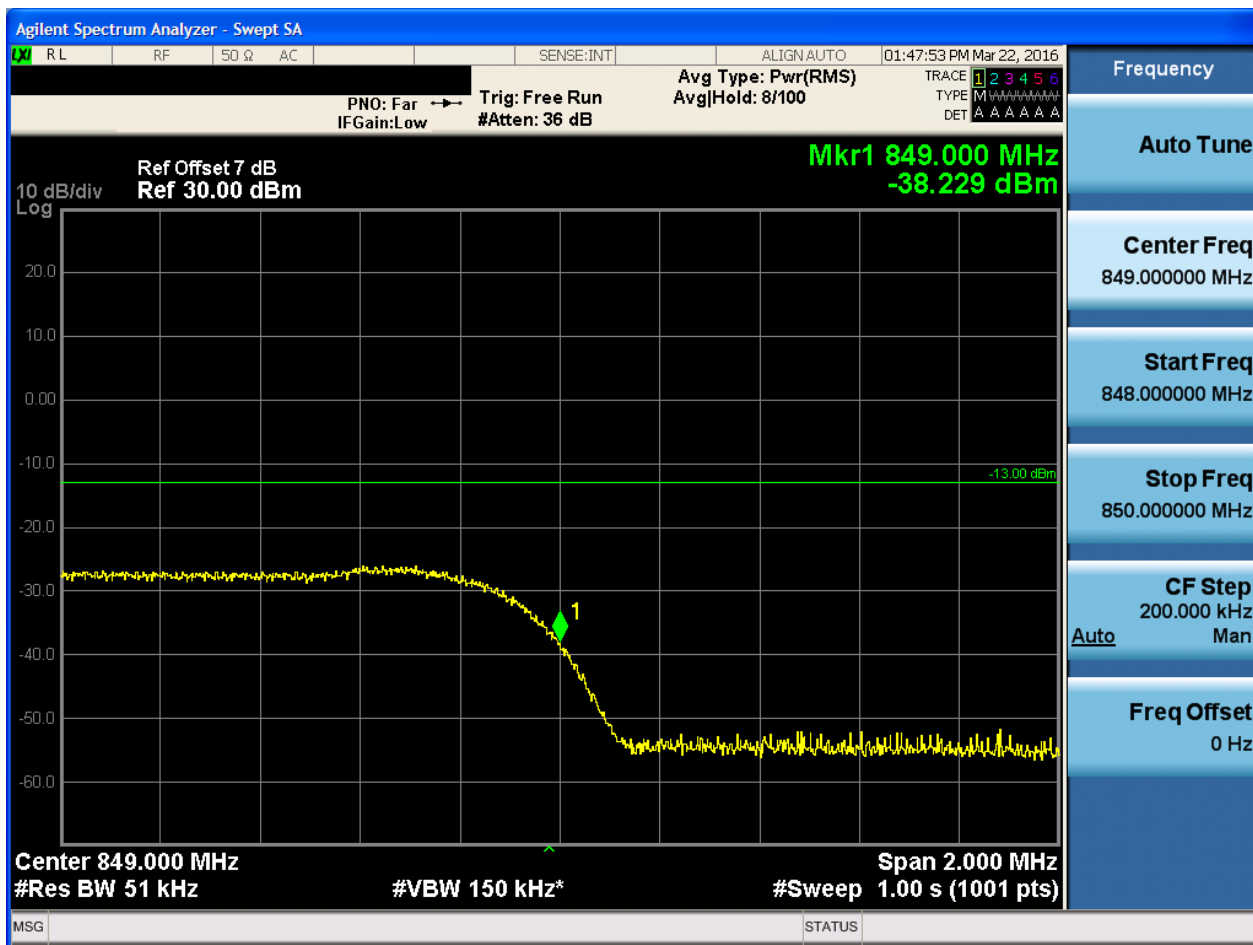
Freq Offset
0 Hz

MSG STATUS

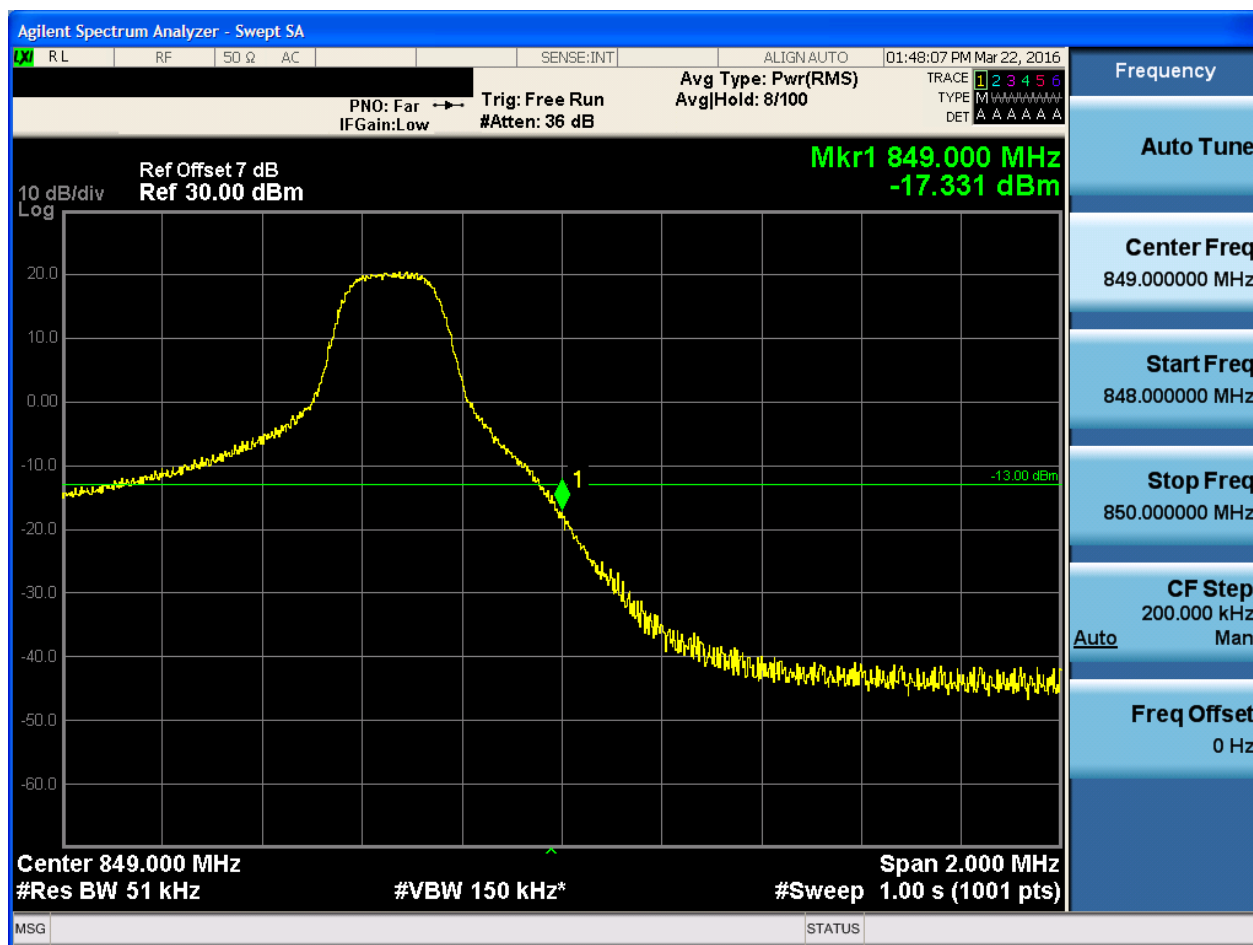


5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0



5.1.1.1.3.2.2 Test RB = RB1#24





5.1.1.1.3.2.3 Test RB = RB12#6





5.1.1.1.3.2.4 Test RB = RB25#0

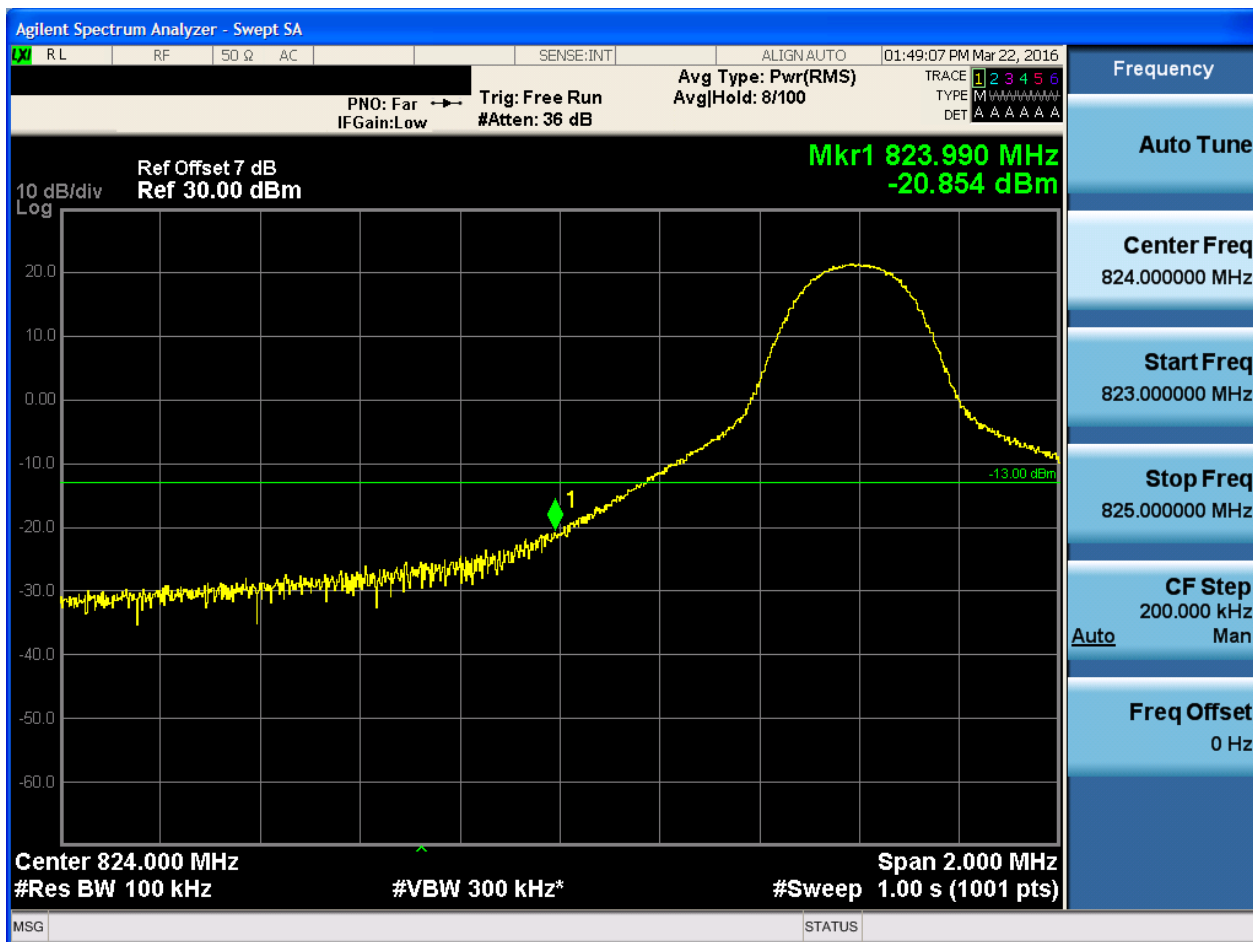




5.1.1.1.4 Test Bandwidth = 10

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

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:49:36 PM Mar 22, 2016

Avg Type: Pwr(RMS) Avg|Hold: 8/100

Trig: Free Run #Atten: 36 dB

PNO: Far IFGain:Low

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-35.061 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz

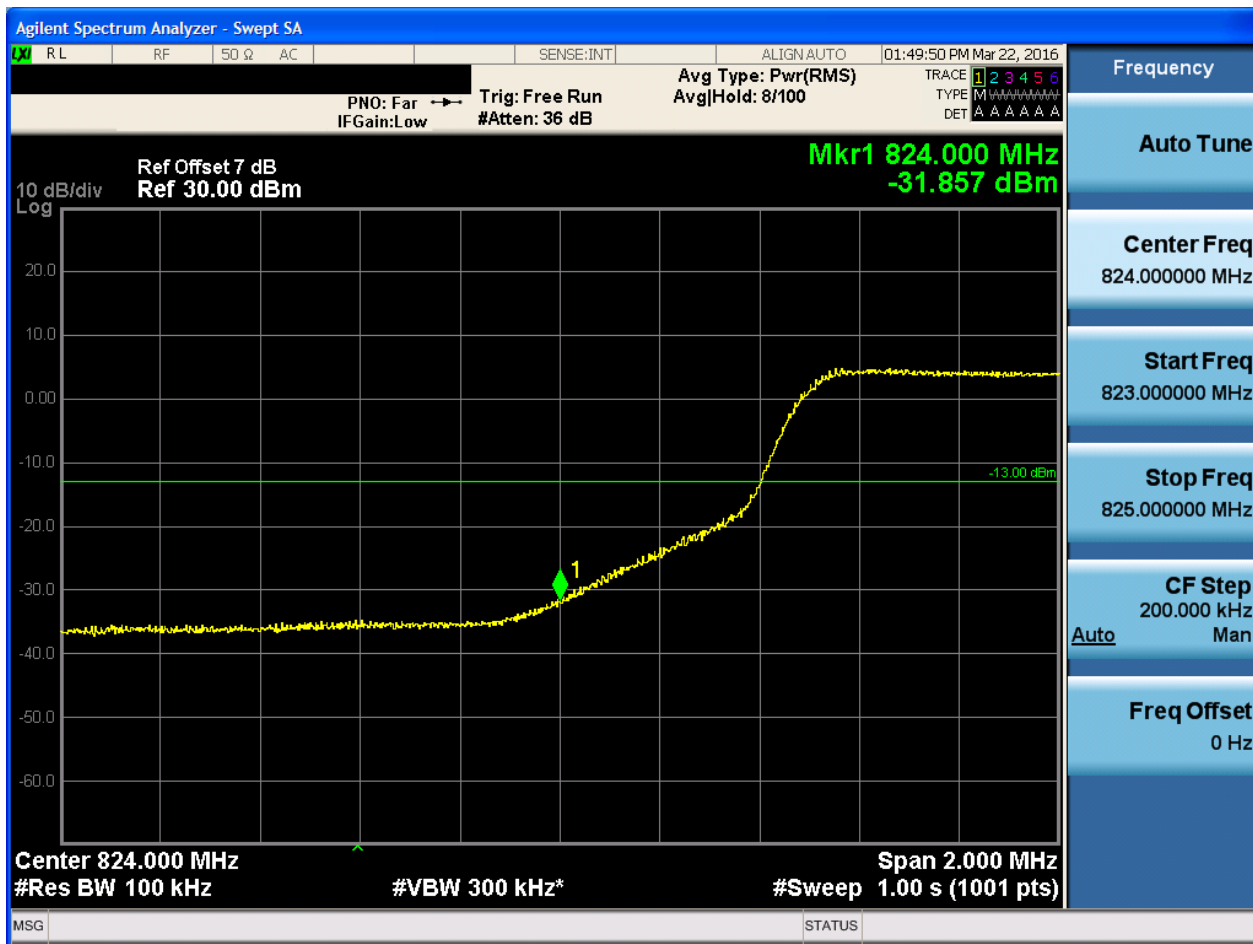
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS



5.1.1.1.4.1.4 Test RB = RB50#0



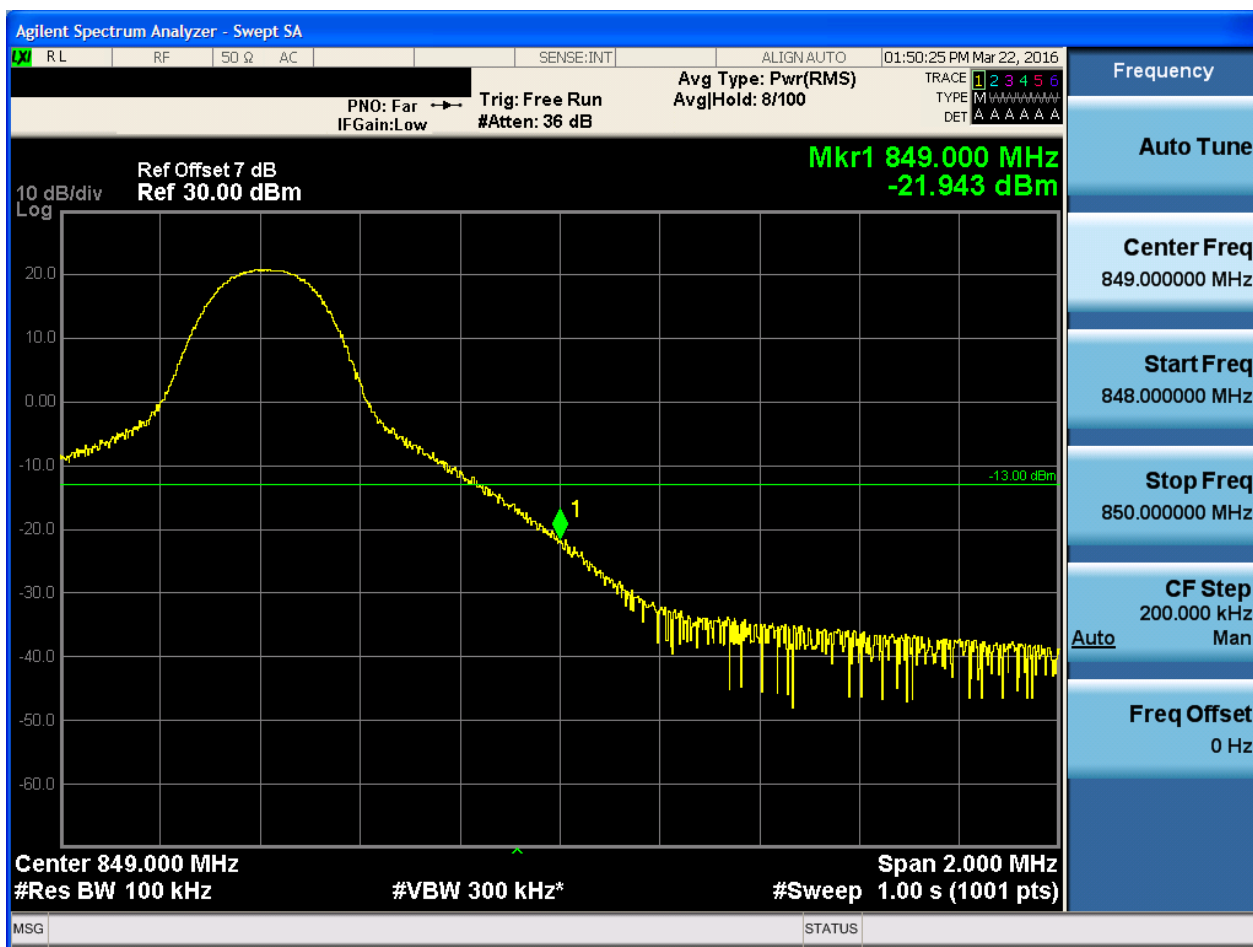
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



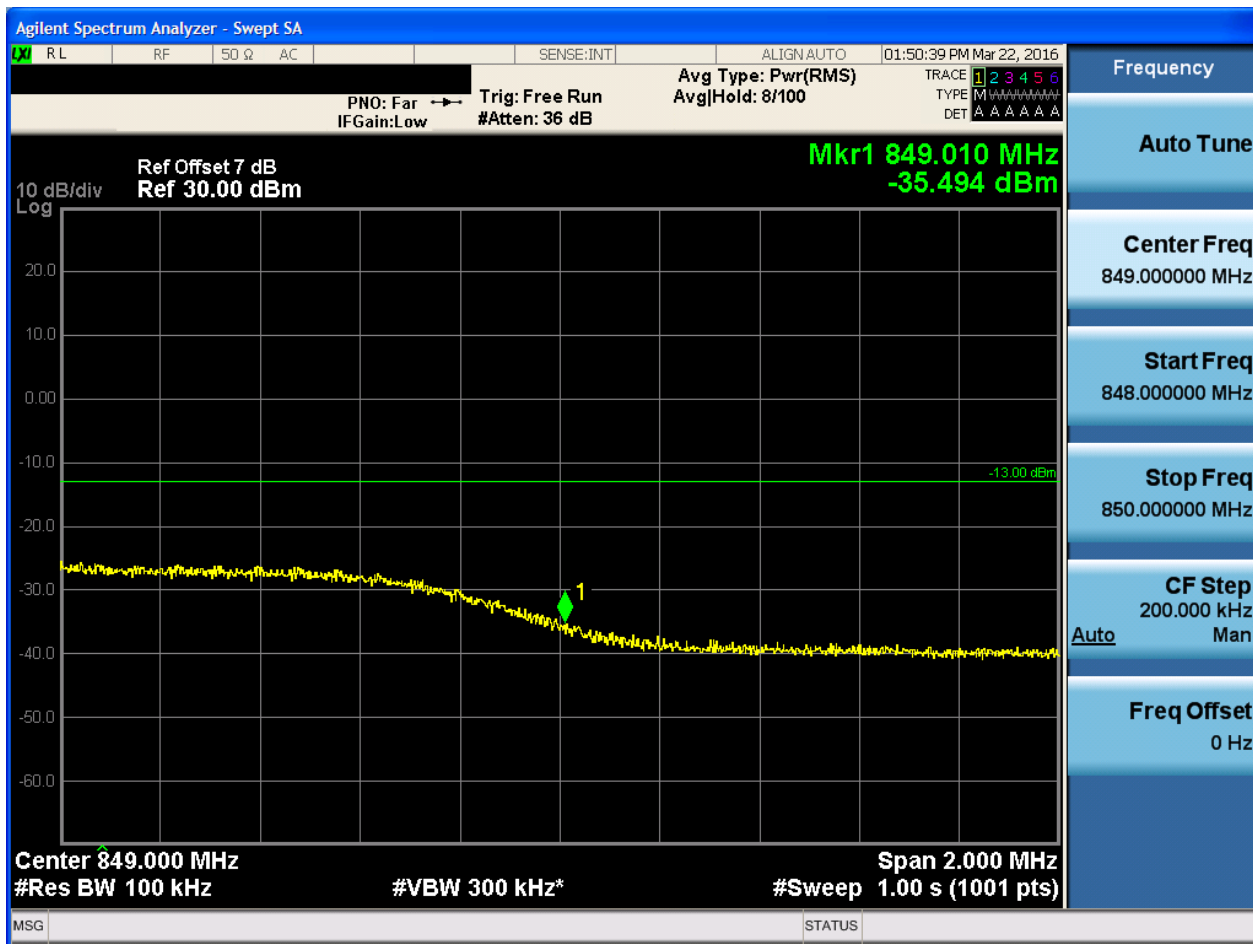


5.1.1.1.4.2.2 Test RB = RB1#49



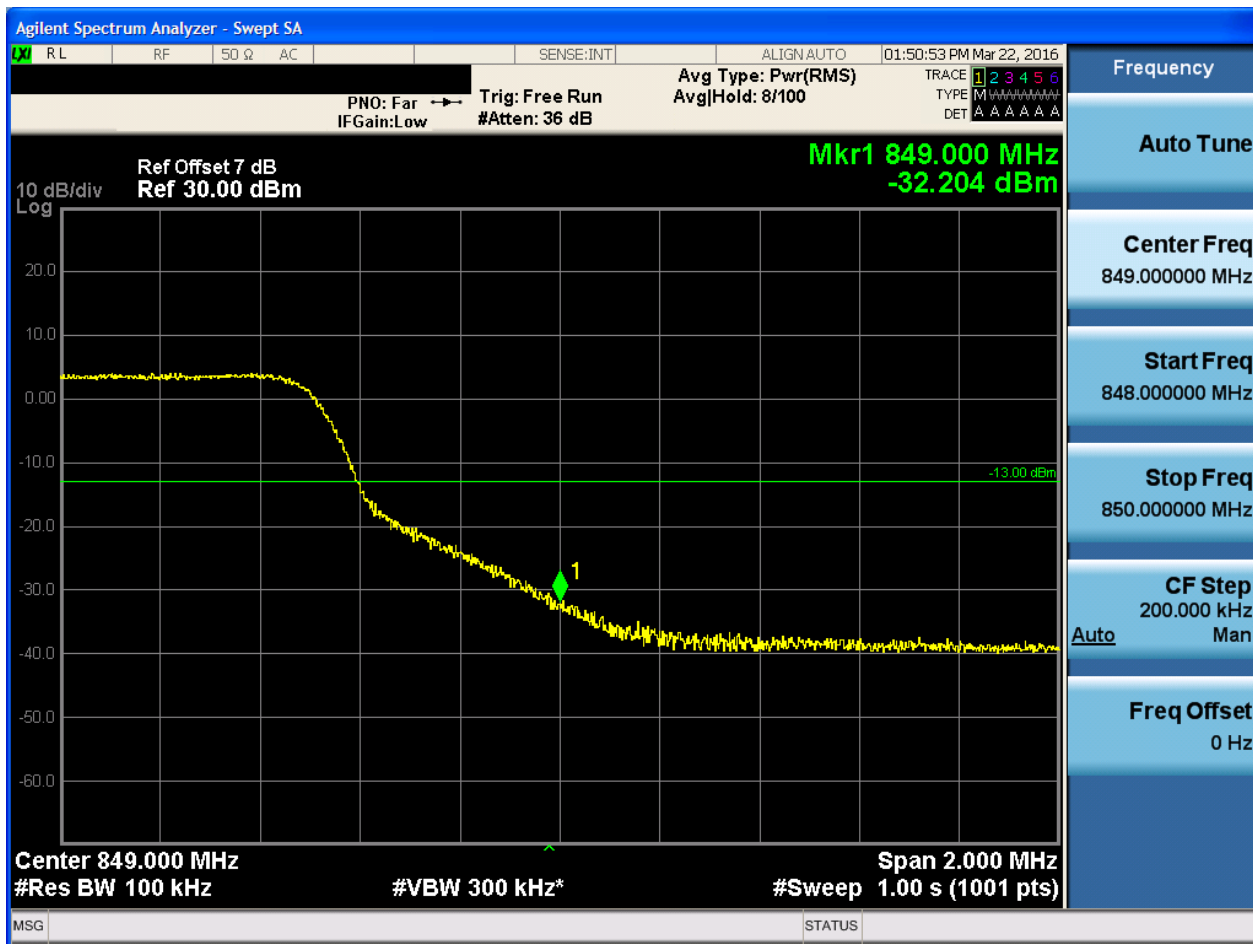


5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0



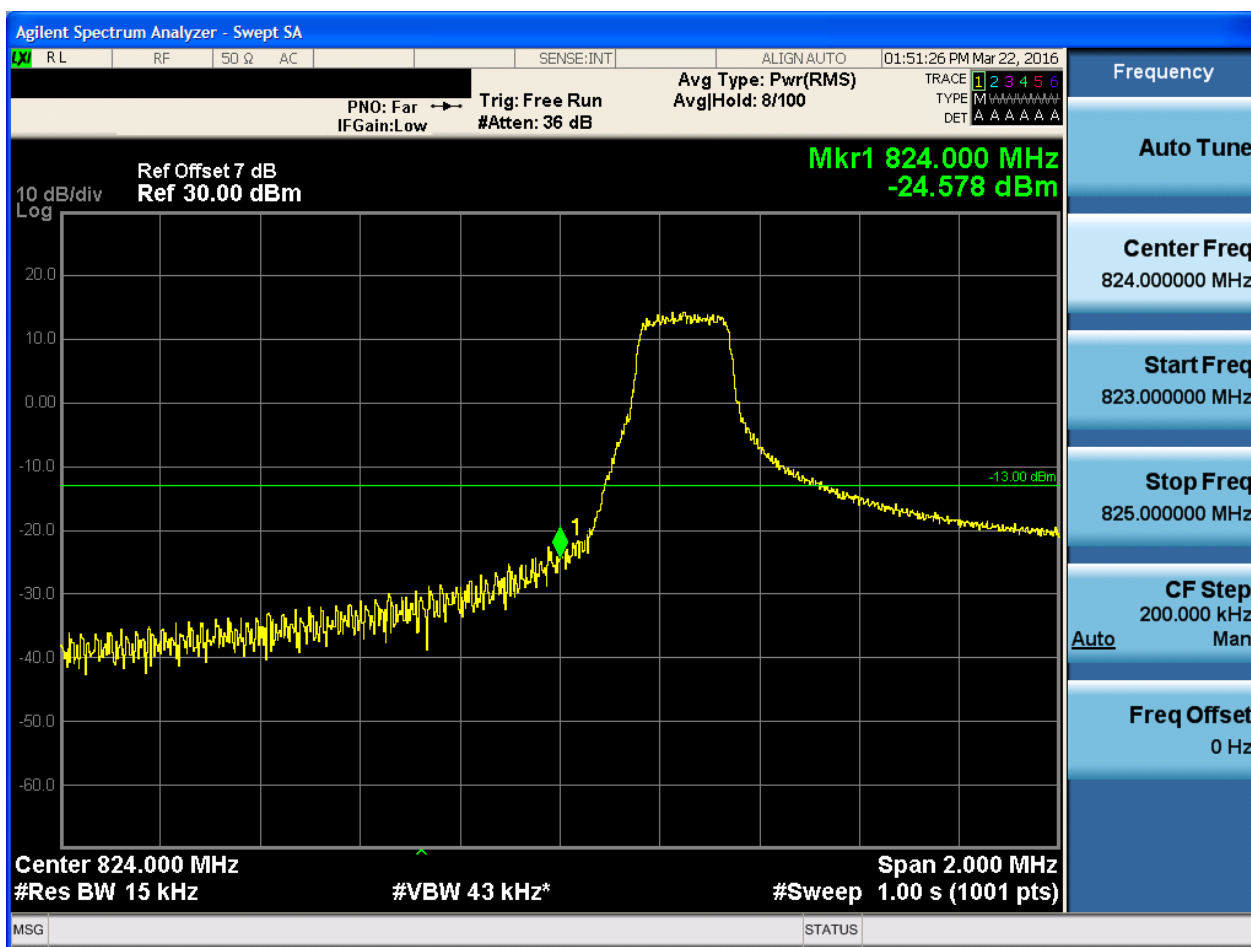


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

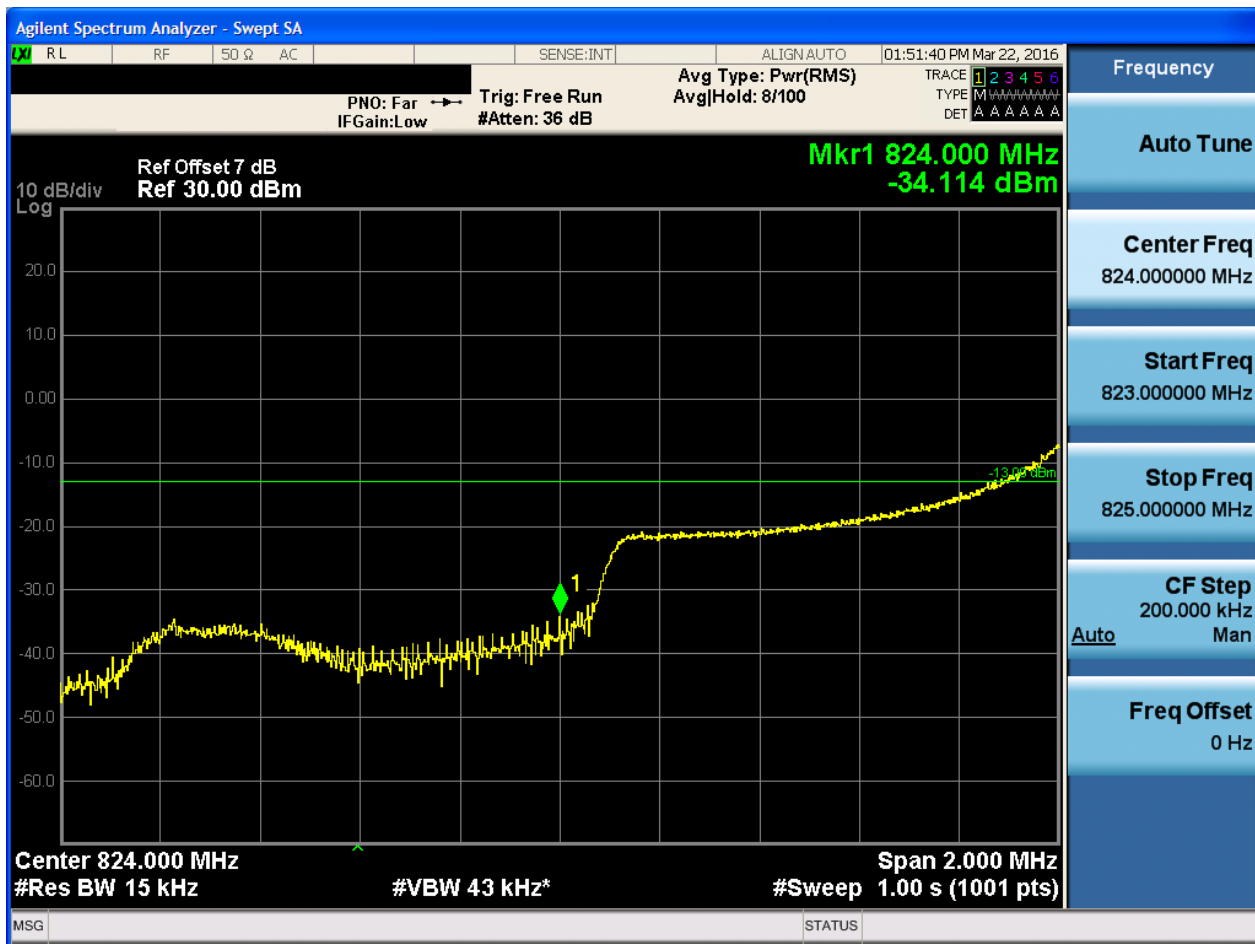
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0

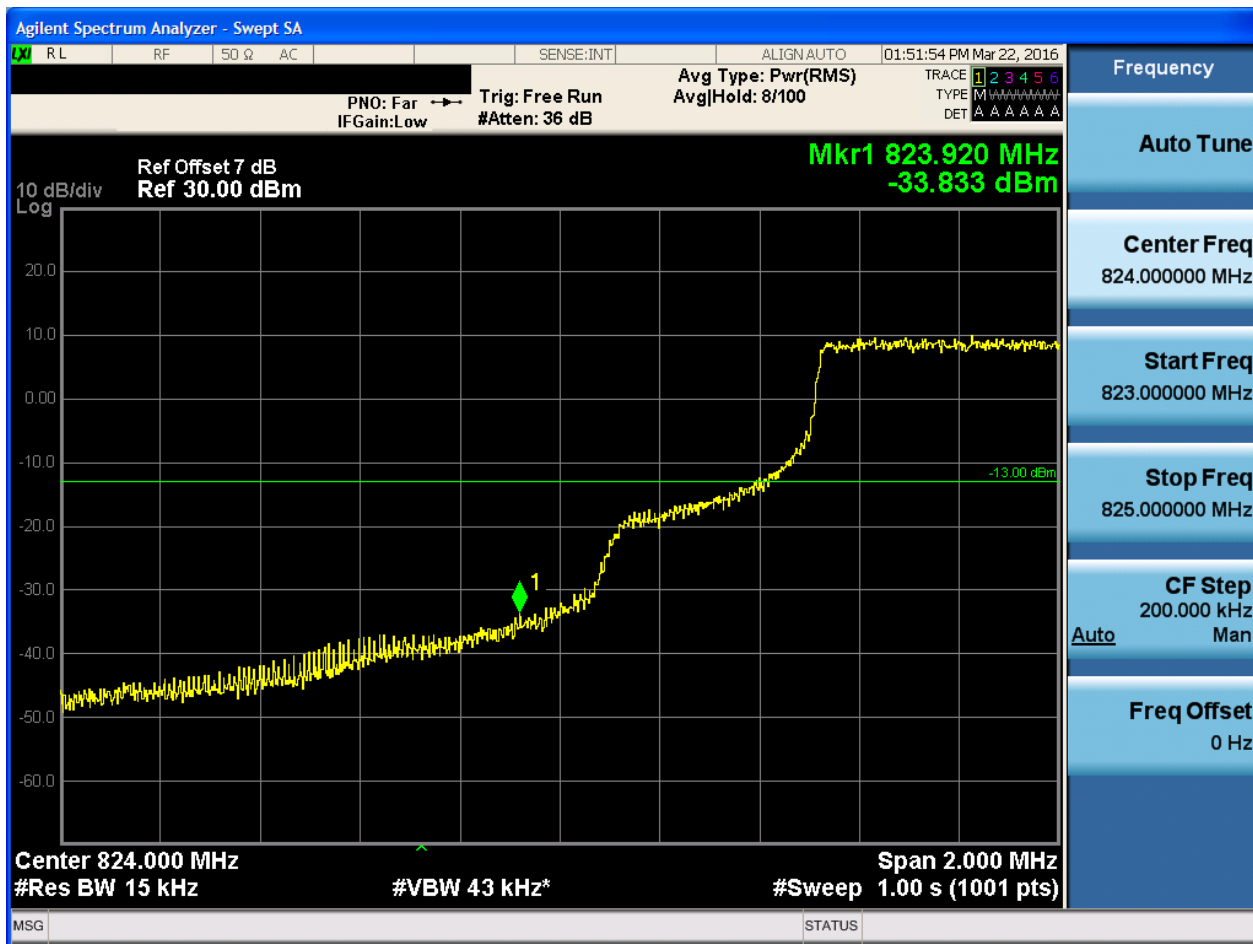




5.1.1.2.1.1.2 Test RB = RB1#5

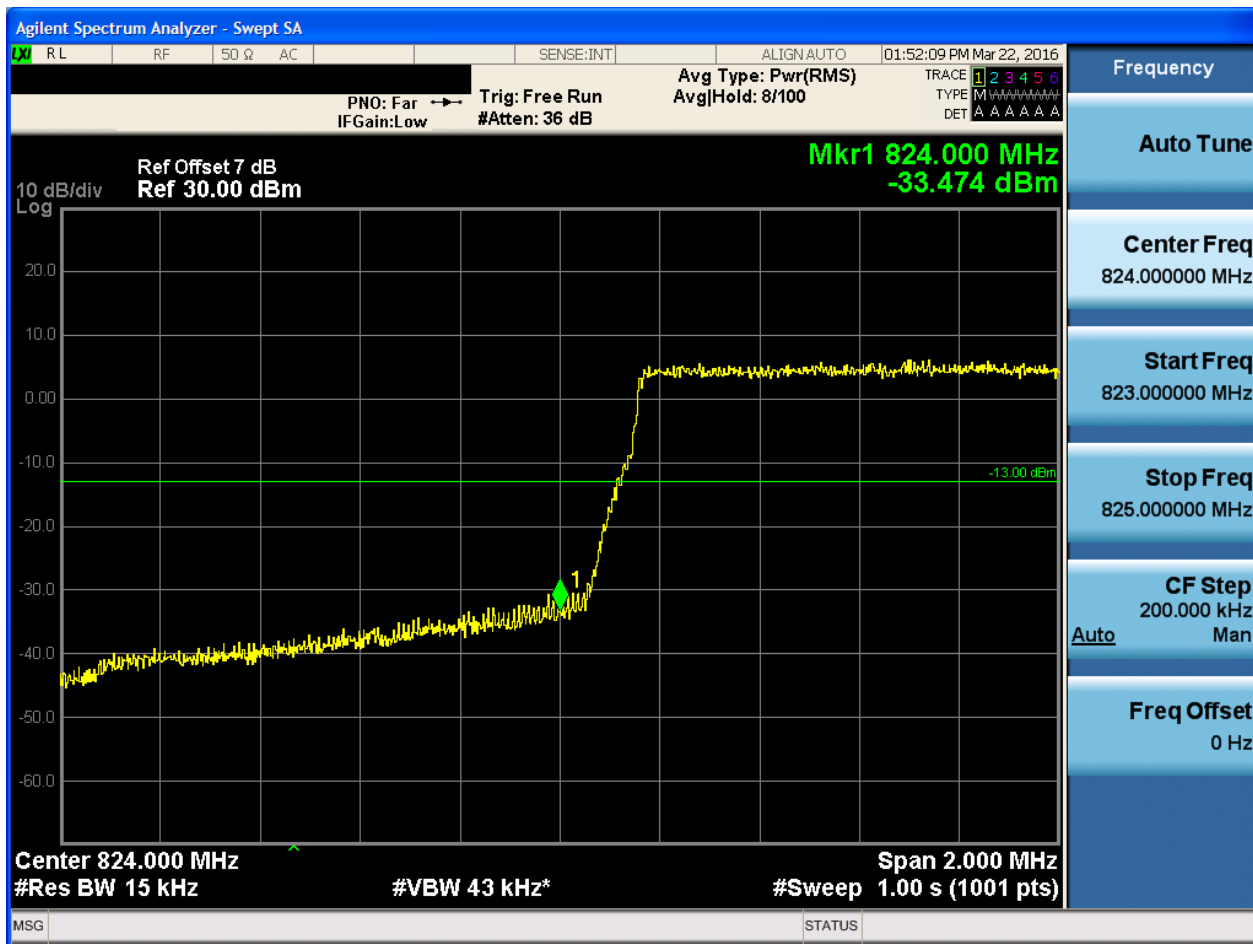


5.1.1.2.1.1.3 Test RB = RB3#2





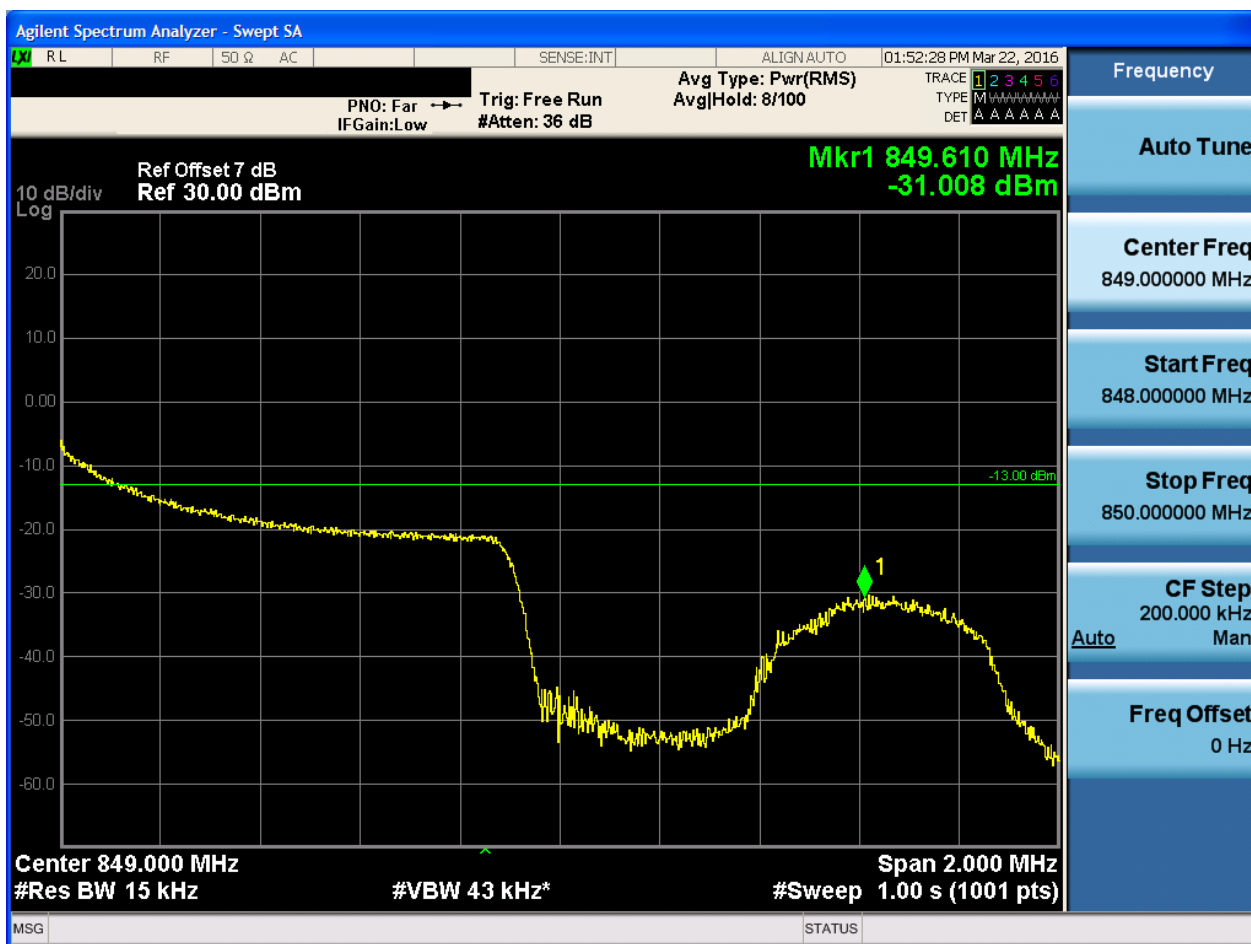
5.1.1.2.1.1.4 Test RB = RB6#0





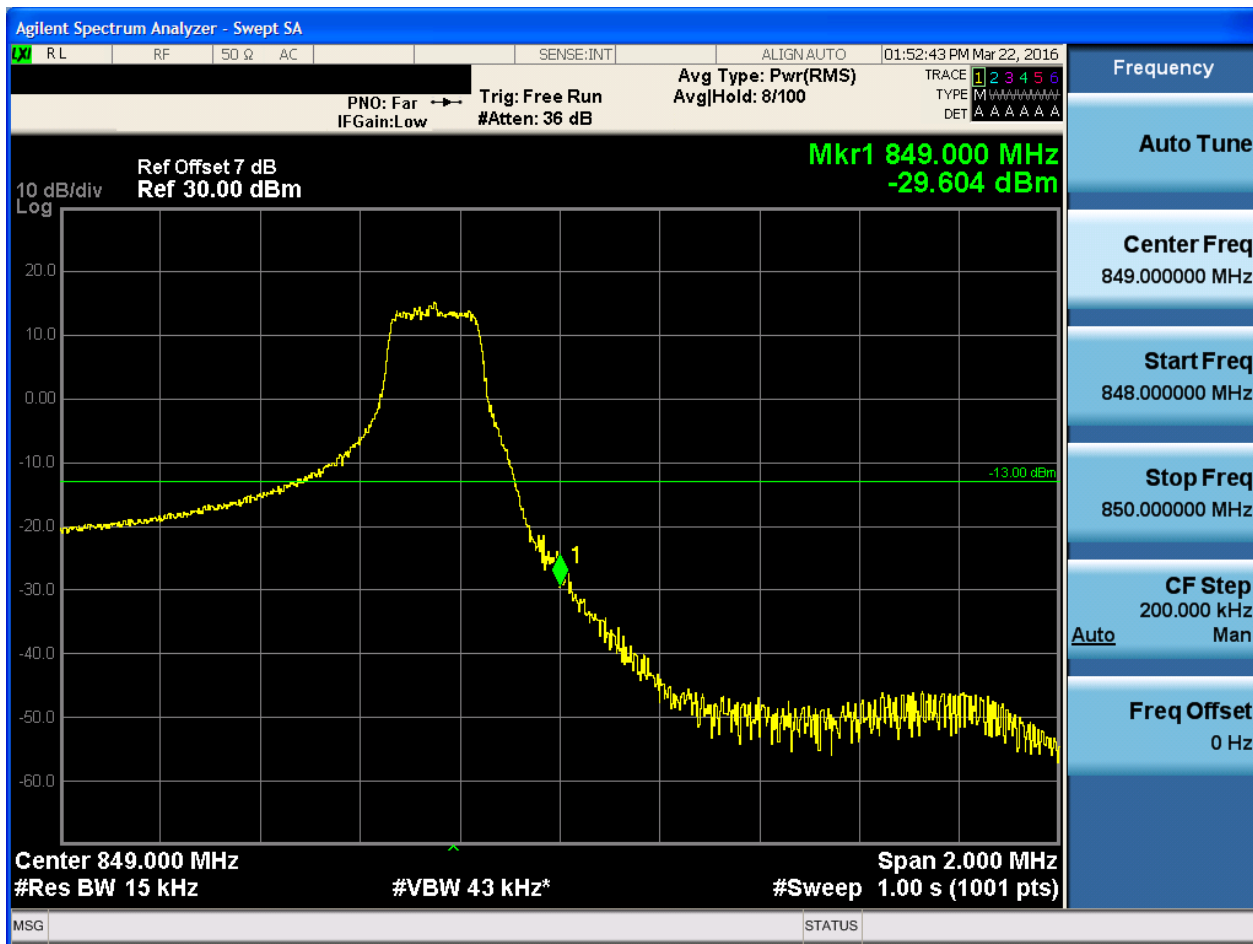
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





5.1.1.2.1.2.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

[X] R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:53:11 PM Mar 22, 2016
 Avg Type: Pwr(RMS) AvgHold: 8/100
 PNO: Far Trig: Free Run
 IFGain:Low #Atten: 36 dB
 TRACE 1 2 3 4 5 6
 TYPE M W W W W W W W
 DET A A A A A A

Ref Offset 7 dB
 Ref 30.00 dBm
 Mkr1 849.010 MHz
 -32.055 dBm

10 dB/div
Log

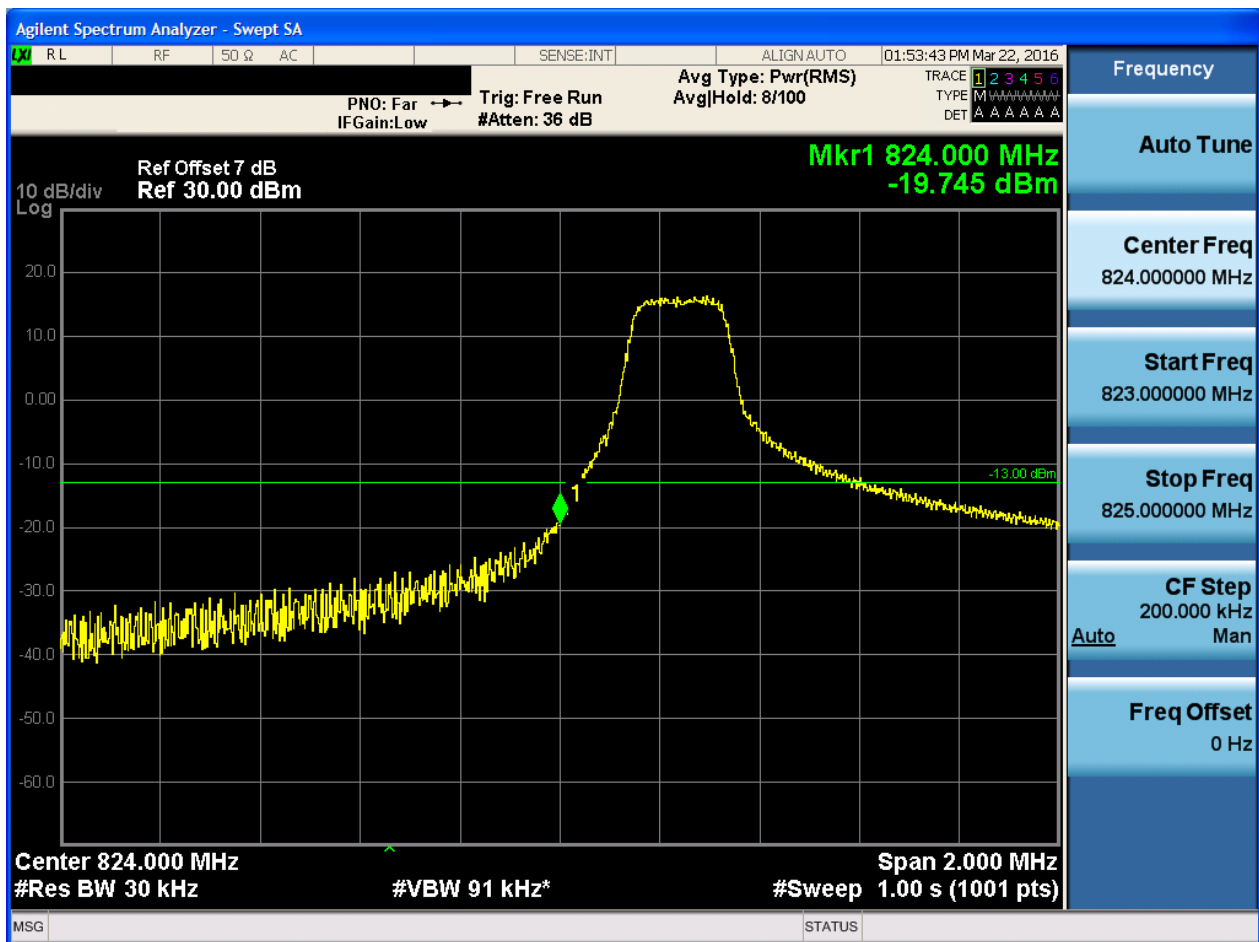
Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency
 Auto Tune
 Center Freq
 849.000000 MHz
 Start Freq
 848.000000 MHz
 Stop Freq
 850.000000 MHz
 CF Step
 200.000 kHz
 Man
 Auto
 Freq Offset
 0 Hz

MSG STATUS

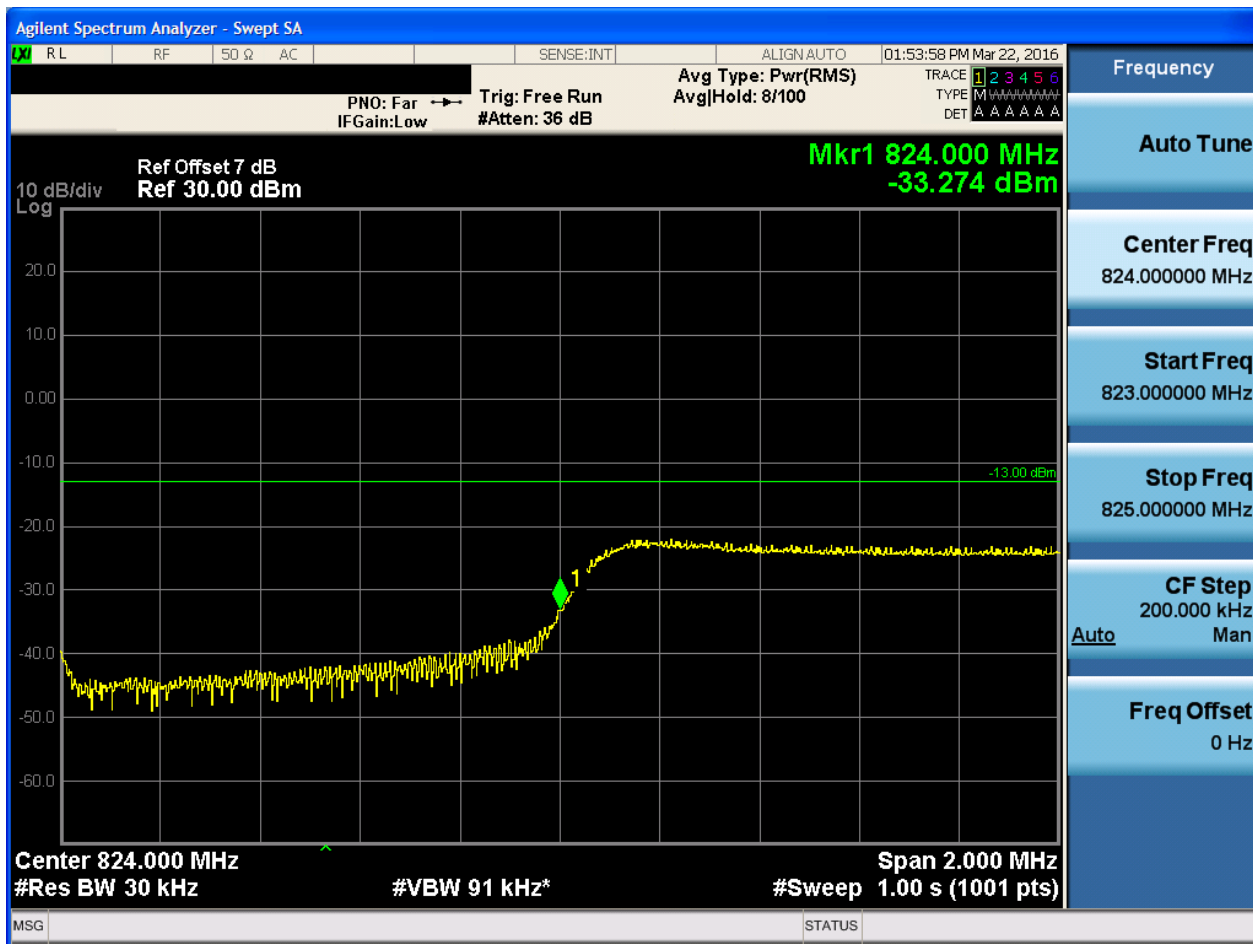


5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:54:12 PM Mar 22, 2016

Avg Type: Pwr(RMS) Avg|Hold: 8/100

Trig: Free Run #Atten: 36 dB

PNO: Far IFGain: Low

TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET A A A A A A

Ref Offset 7 dB Ref 30.00 dBm

Mkr1 824.000 MHz -33.384 dBm

10 dB/div Log

Center 824.000 MHz #Res BW 30 kHz #VBW 91 kHz* Span 2.000 MHz #Sweep 1.00 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:54:26 PM Mar 22, 2016

PNO: Far Trig: Free Run Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
IFGain:Low #Atten: 36 dB Avg|Hold: 8/100 TYPE [M] TYPE [M] TYPE [M] TYPE [M] TYPE [M] TYPE [M]
DET A A A A A A A

Ref Offset 7 dB Mkr1 824.000 MHz
Ref 30.00 dBm -29.696 dBm

10 dB/div Log

Center 824.000 MHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 824.000000 MHz

Start Freq 823.000000 MHz

Stop Freq 825.000000 MHz

CF Step 200.000 kHz

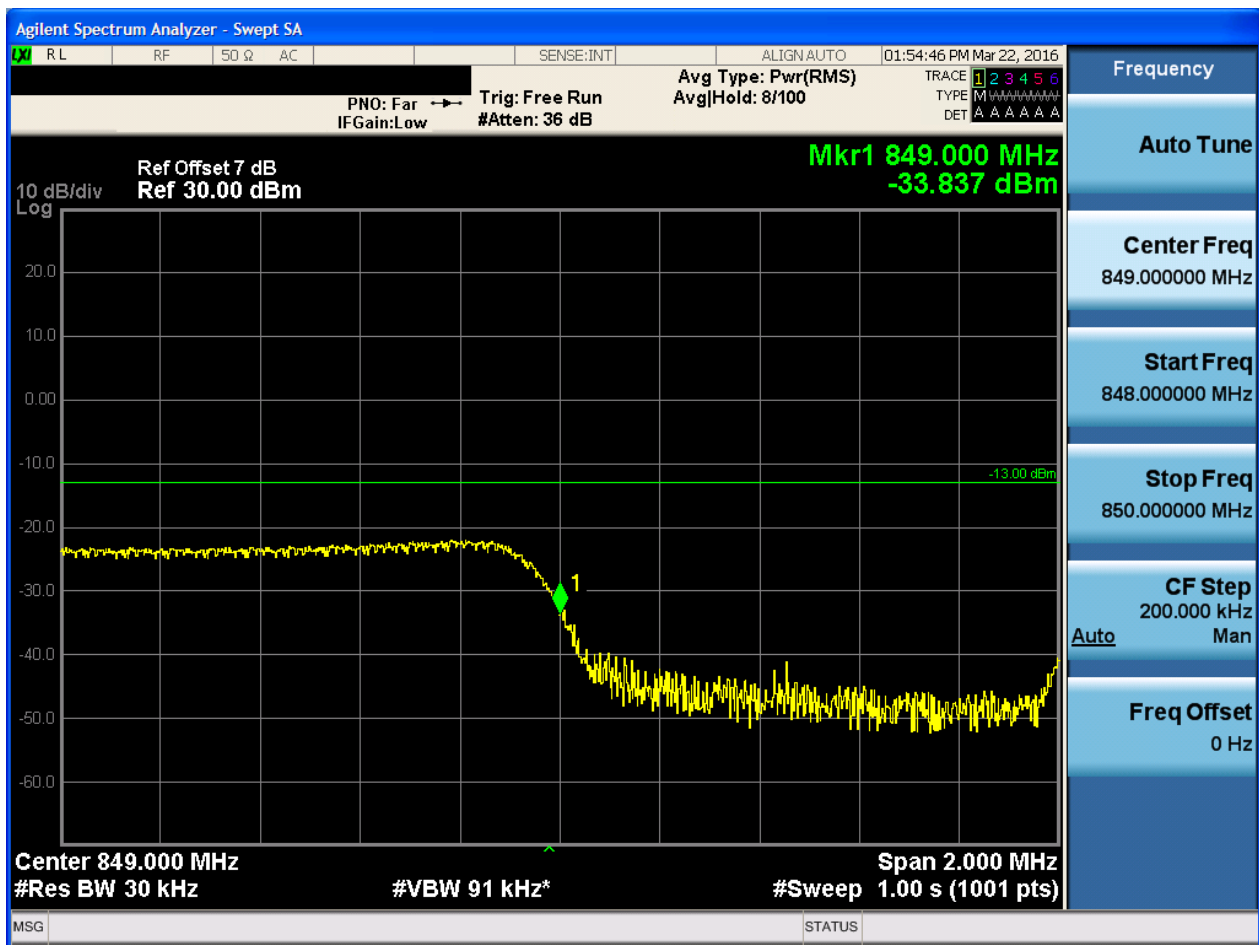
Auto Man

Freq Offset 0 Hz



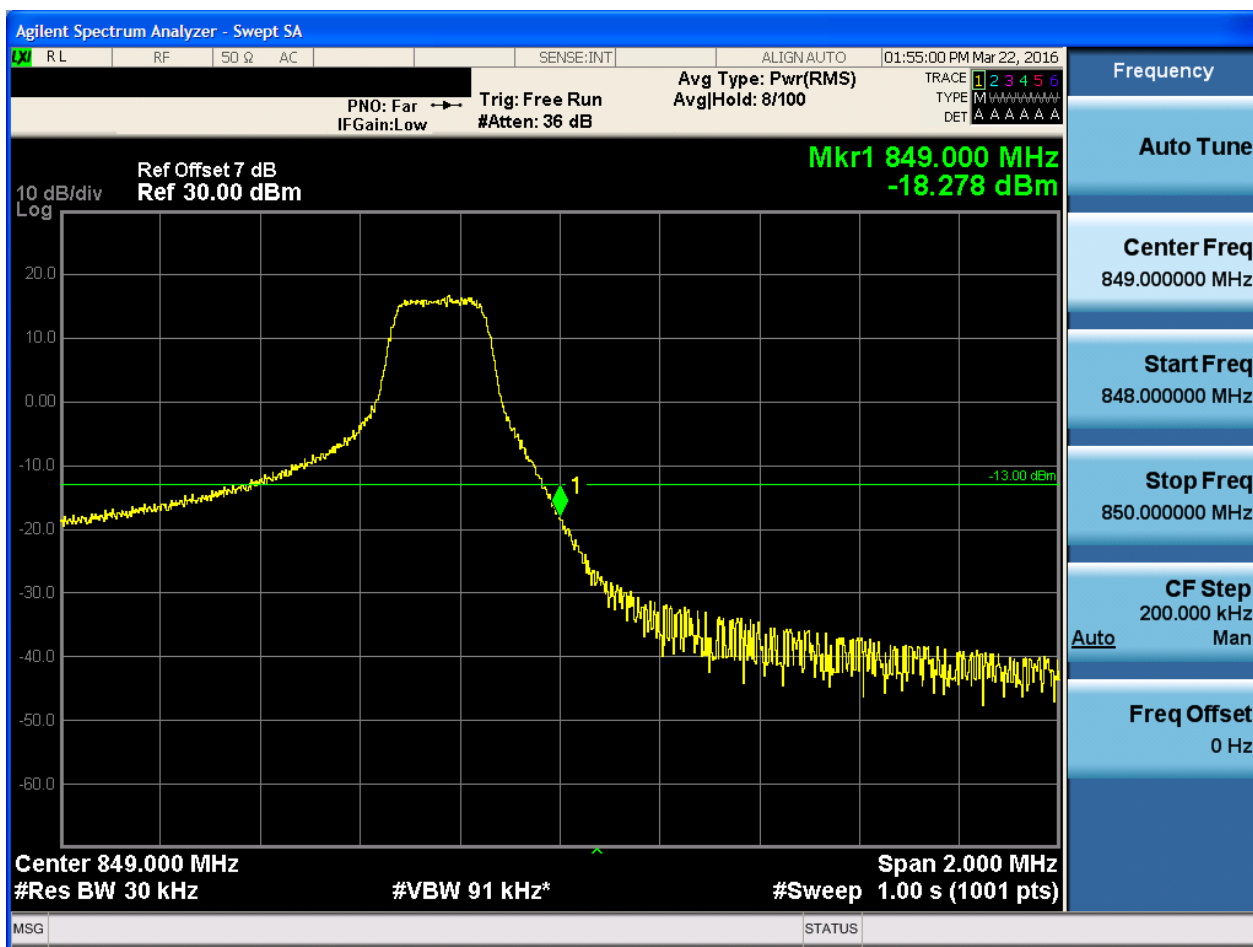
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14



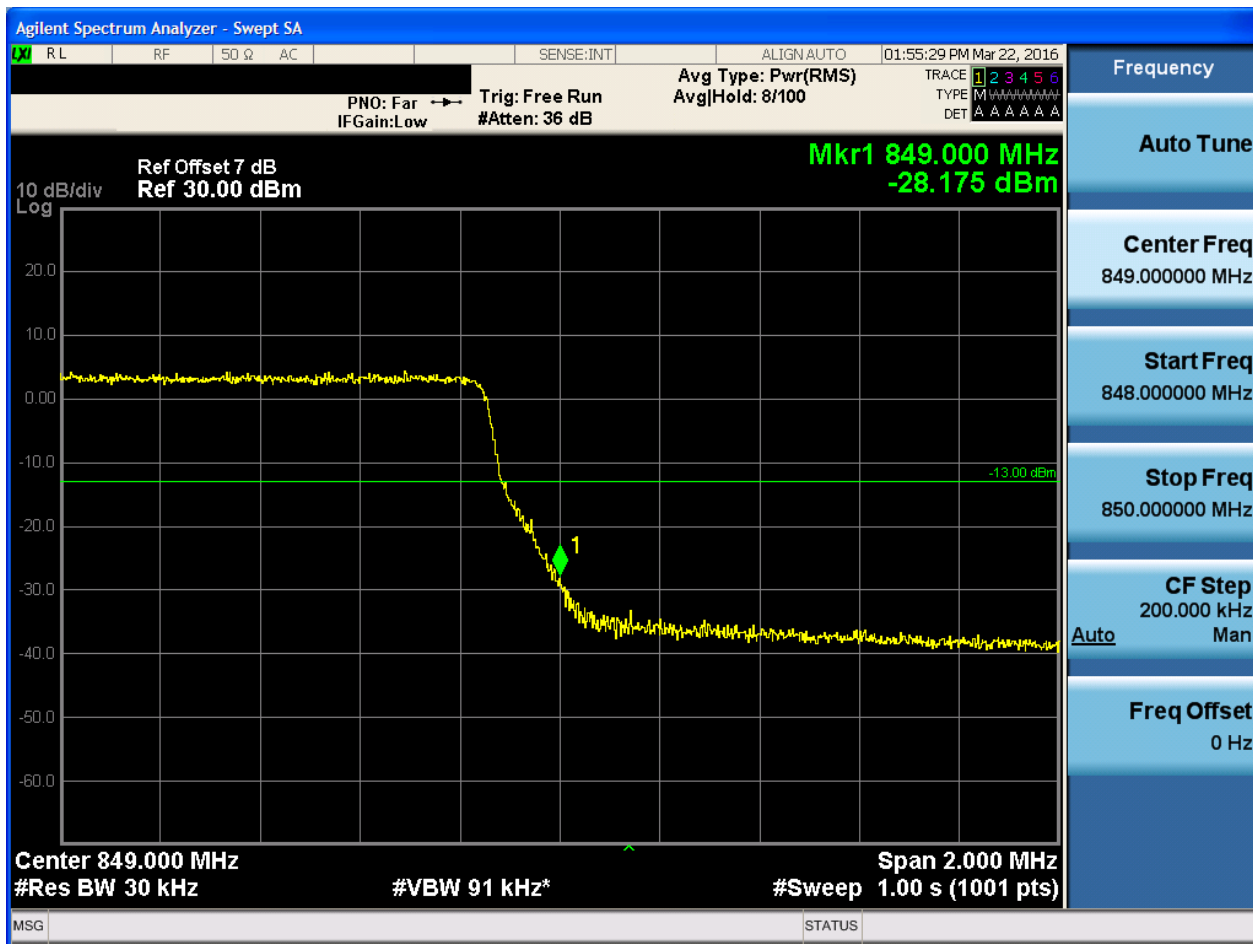


5.1.1.2.2.3 Test RB = RB8#4





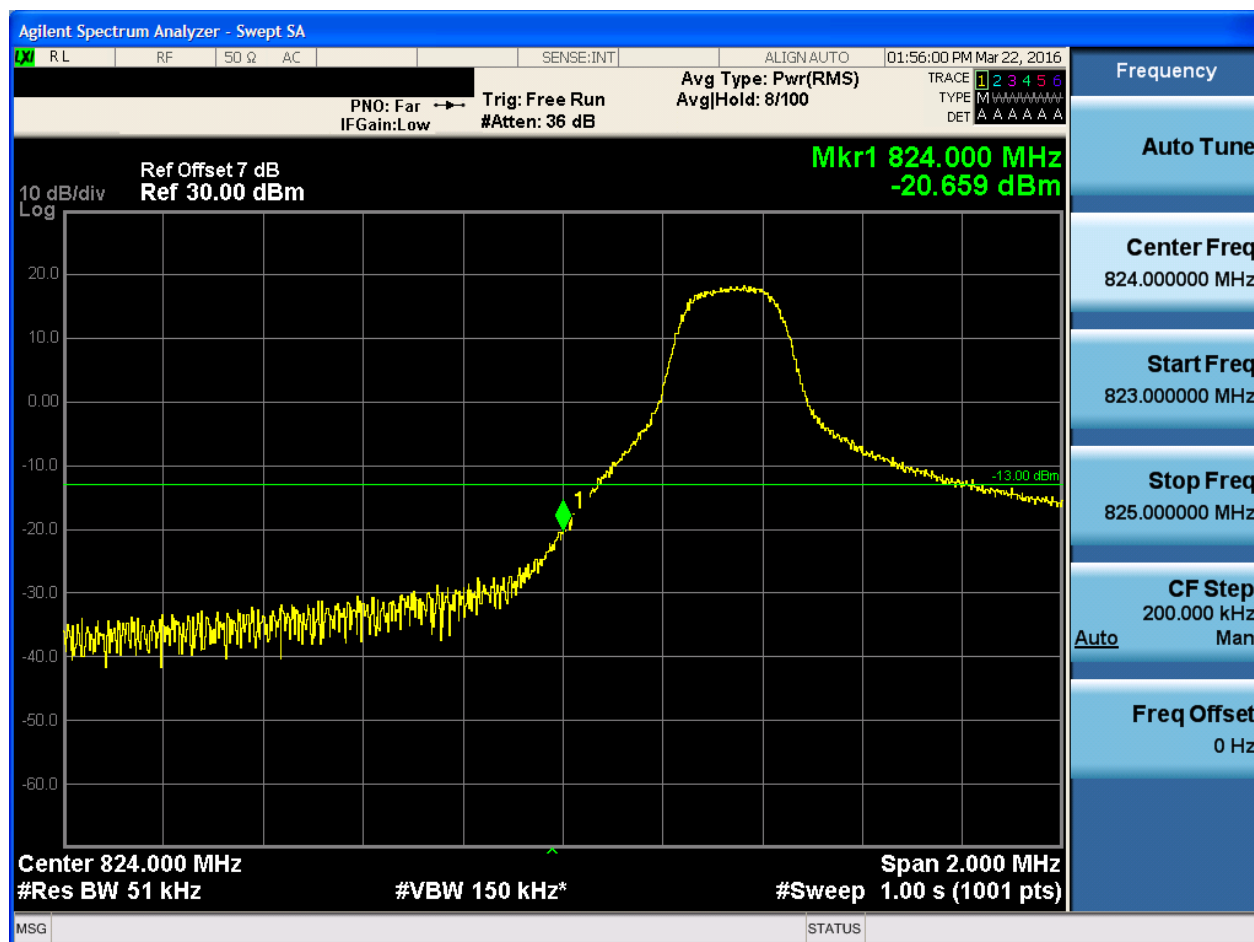
5.1.1.2.2.4 Test RB = RB15#0



5.1.1.2.3 Test Bandwidth = 5

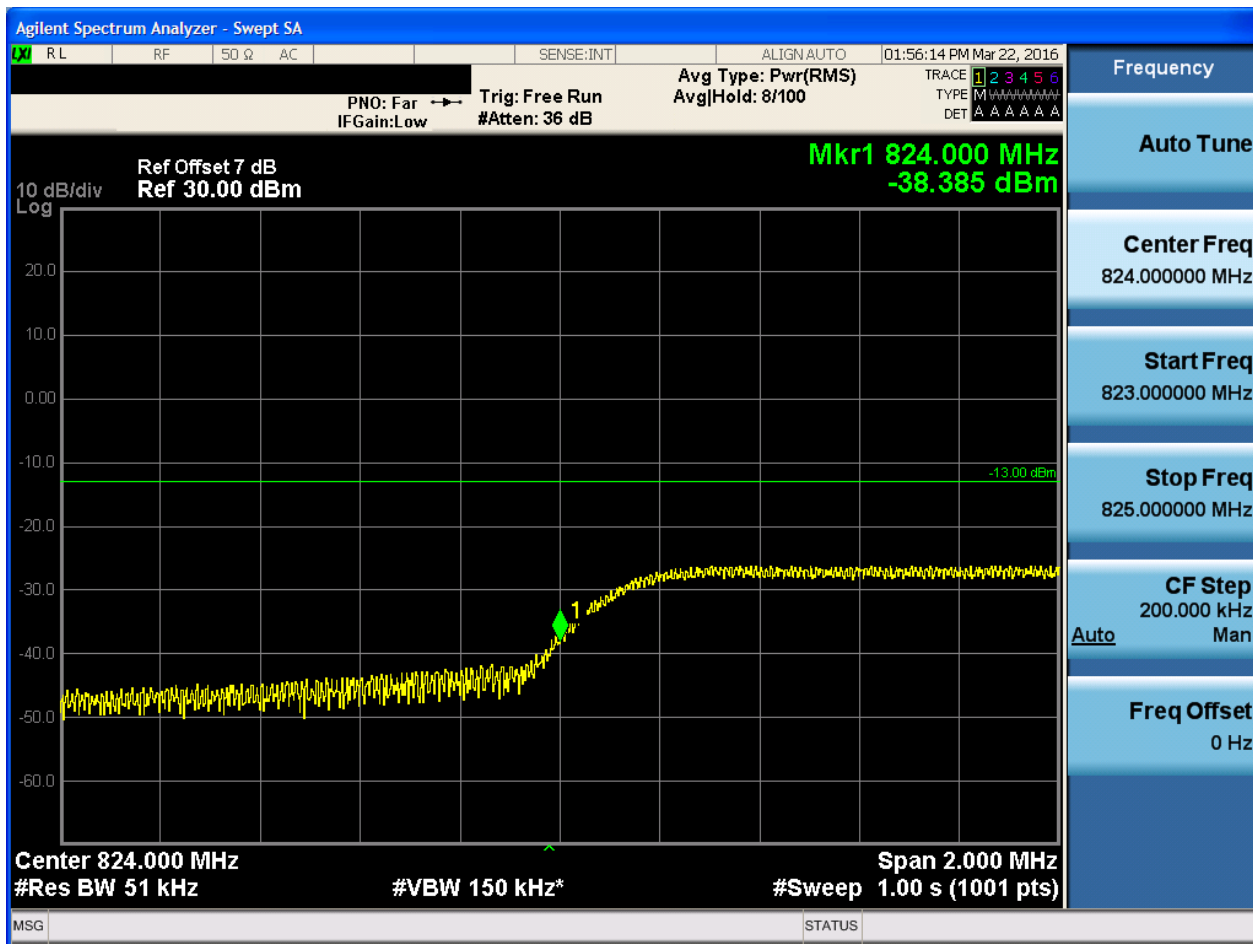
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



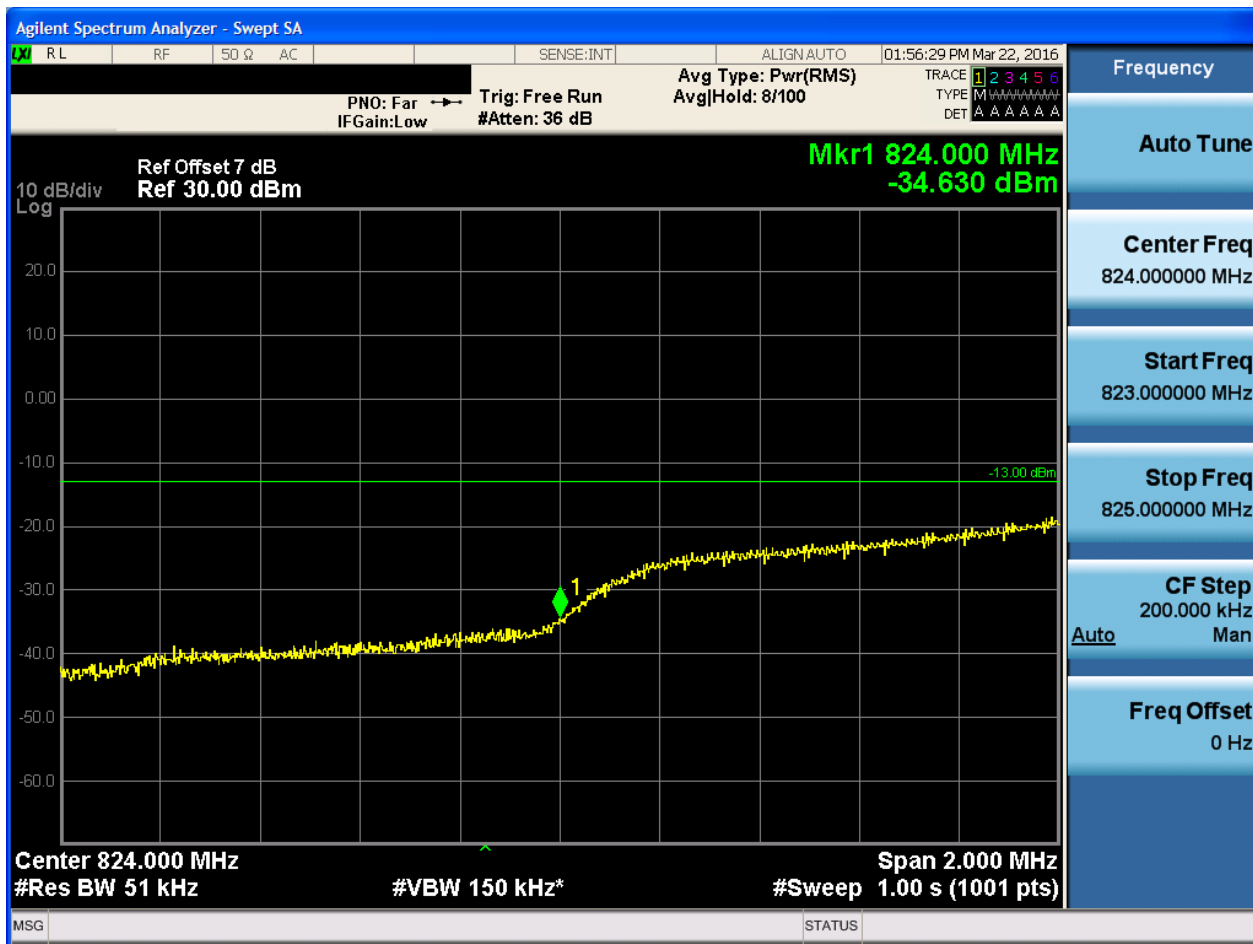


5.1.1.2.3.1.2 Test RB = RB1#24



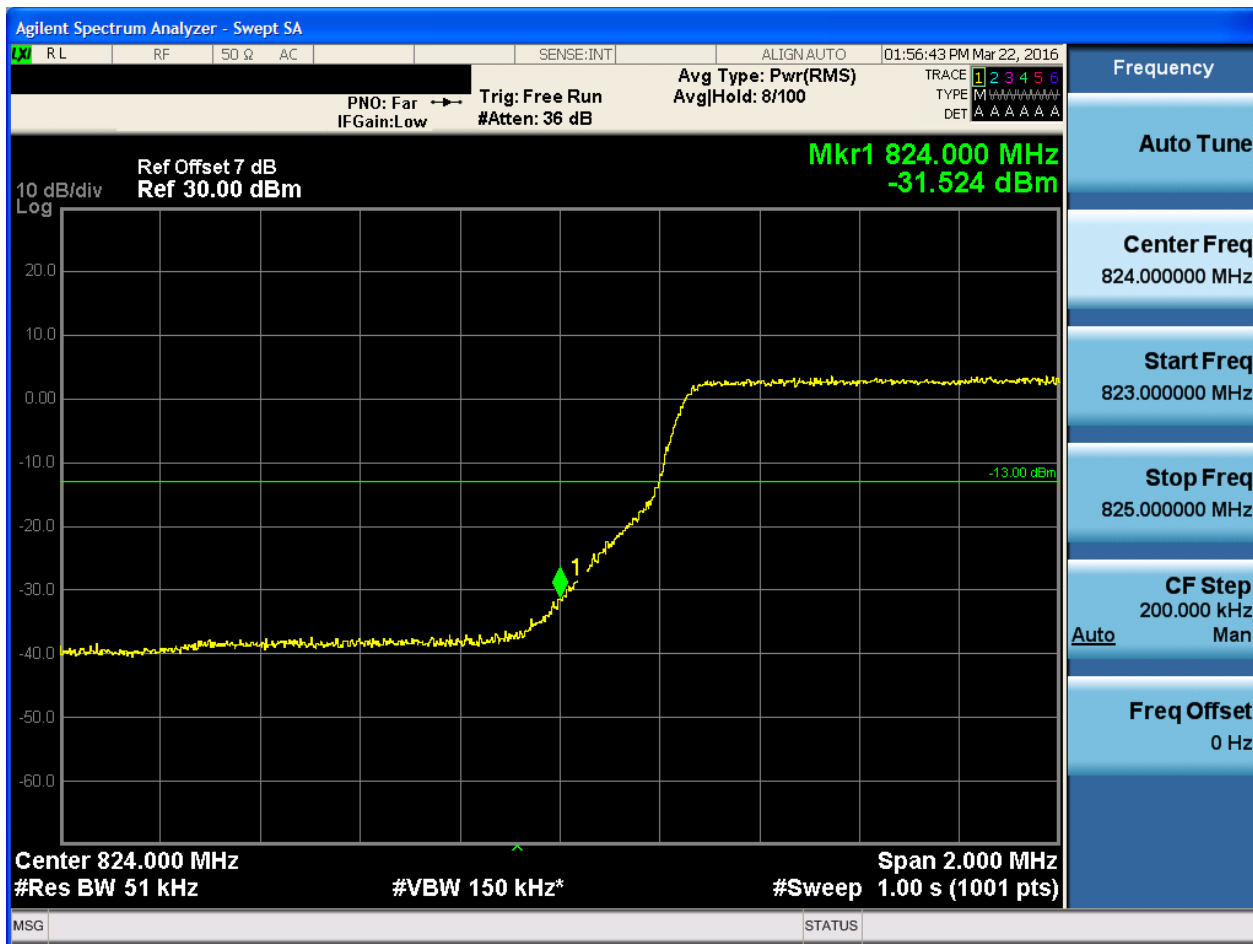


5.1.1.2.3.1.3 Test RB = RB12#6





5.1.1.2.3.1.4 Test RB = RB25#0



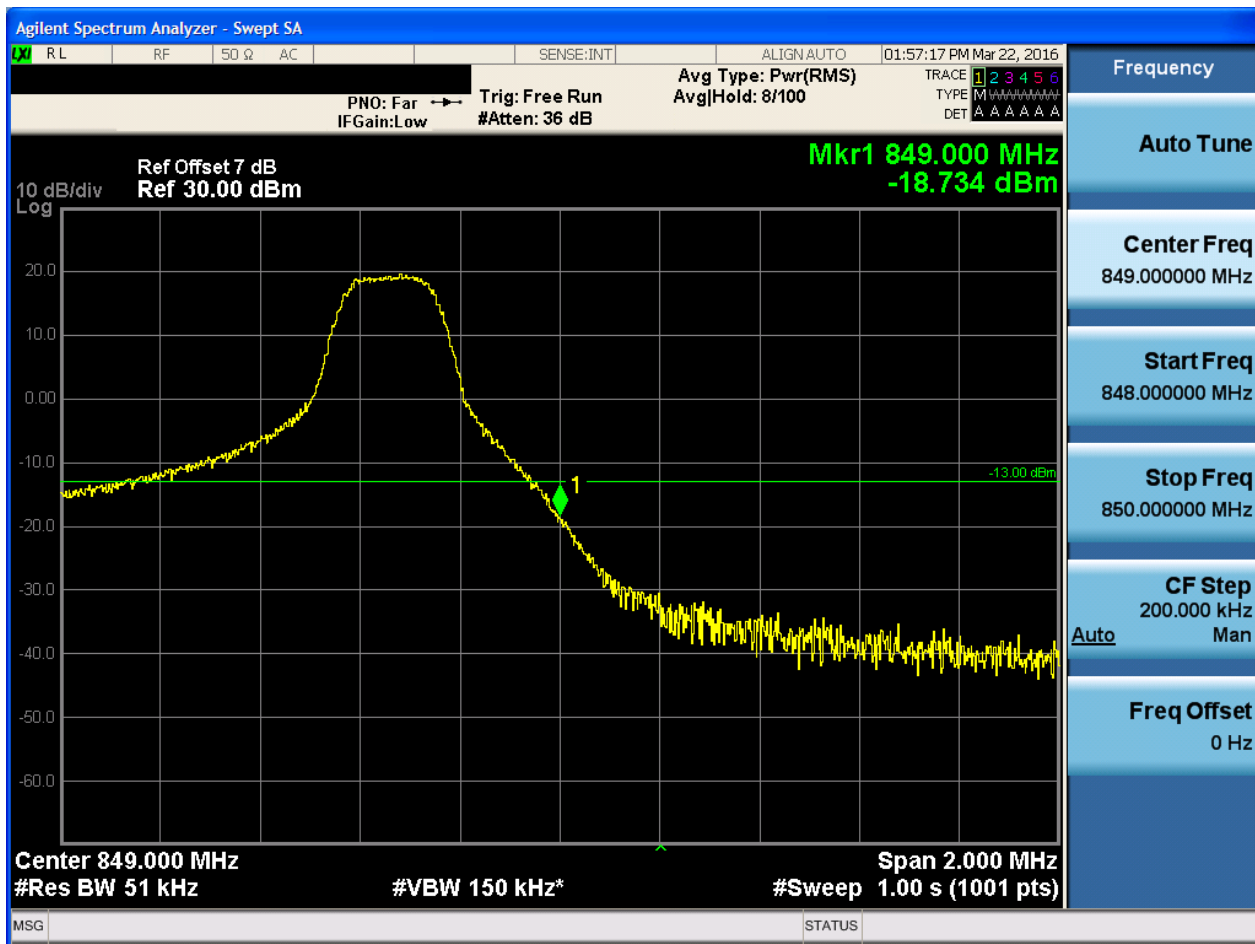
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#24



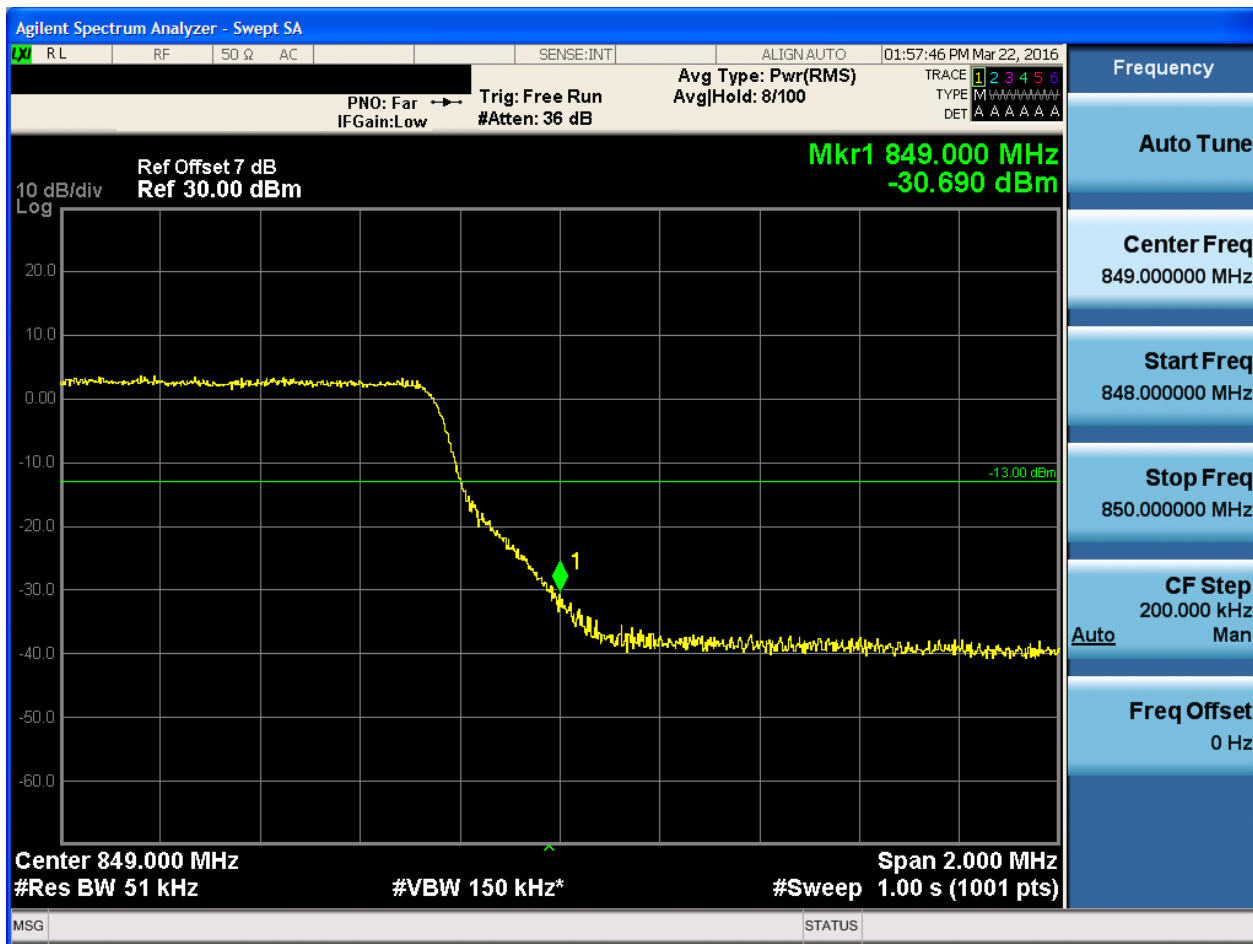


5.1.1.2.3.2.3 Test RB = RB12#6





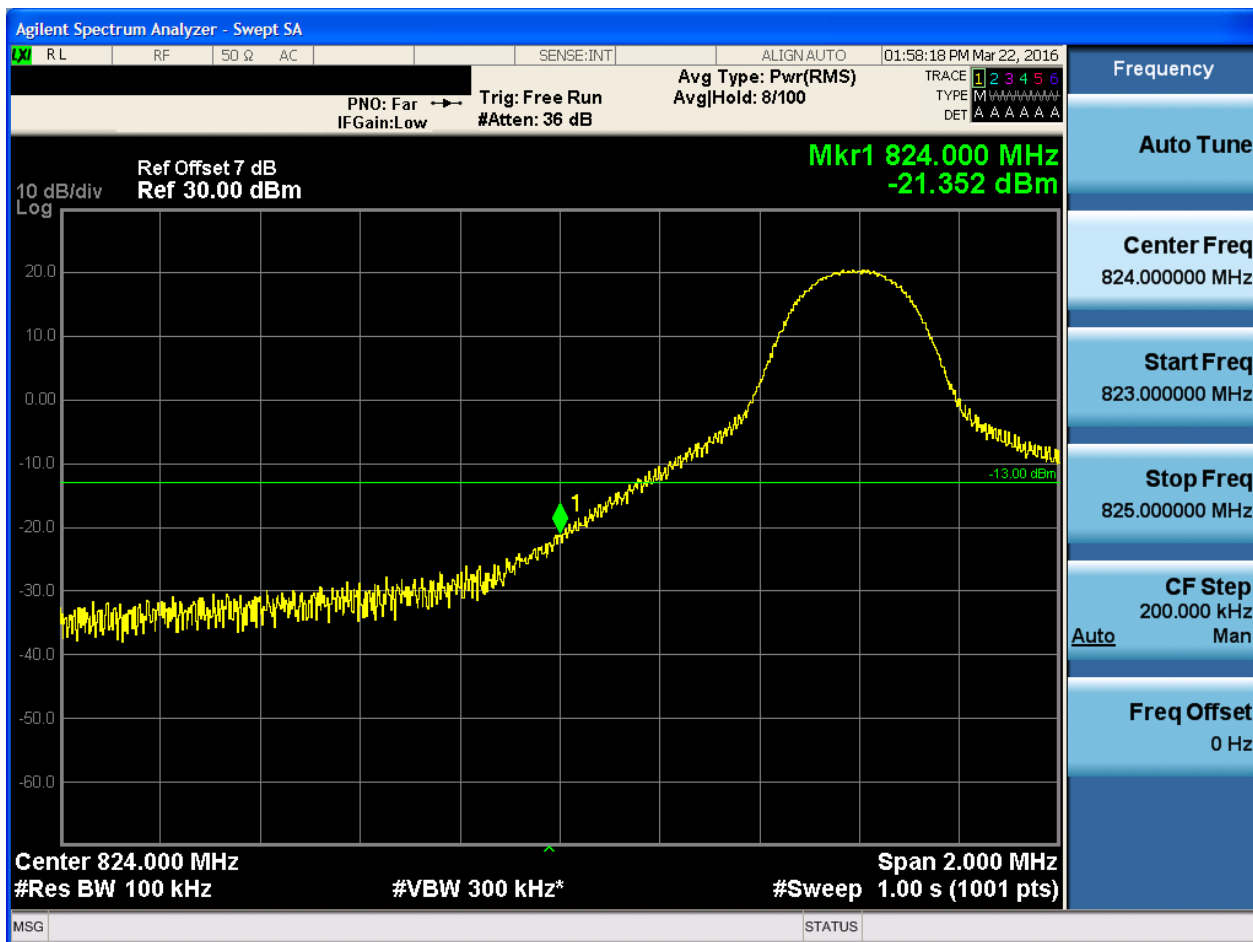
5.1.1.2.3.2.4 Test RB = RB25#0



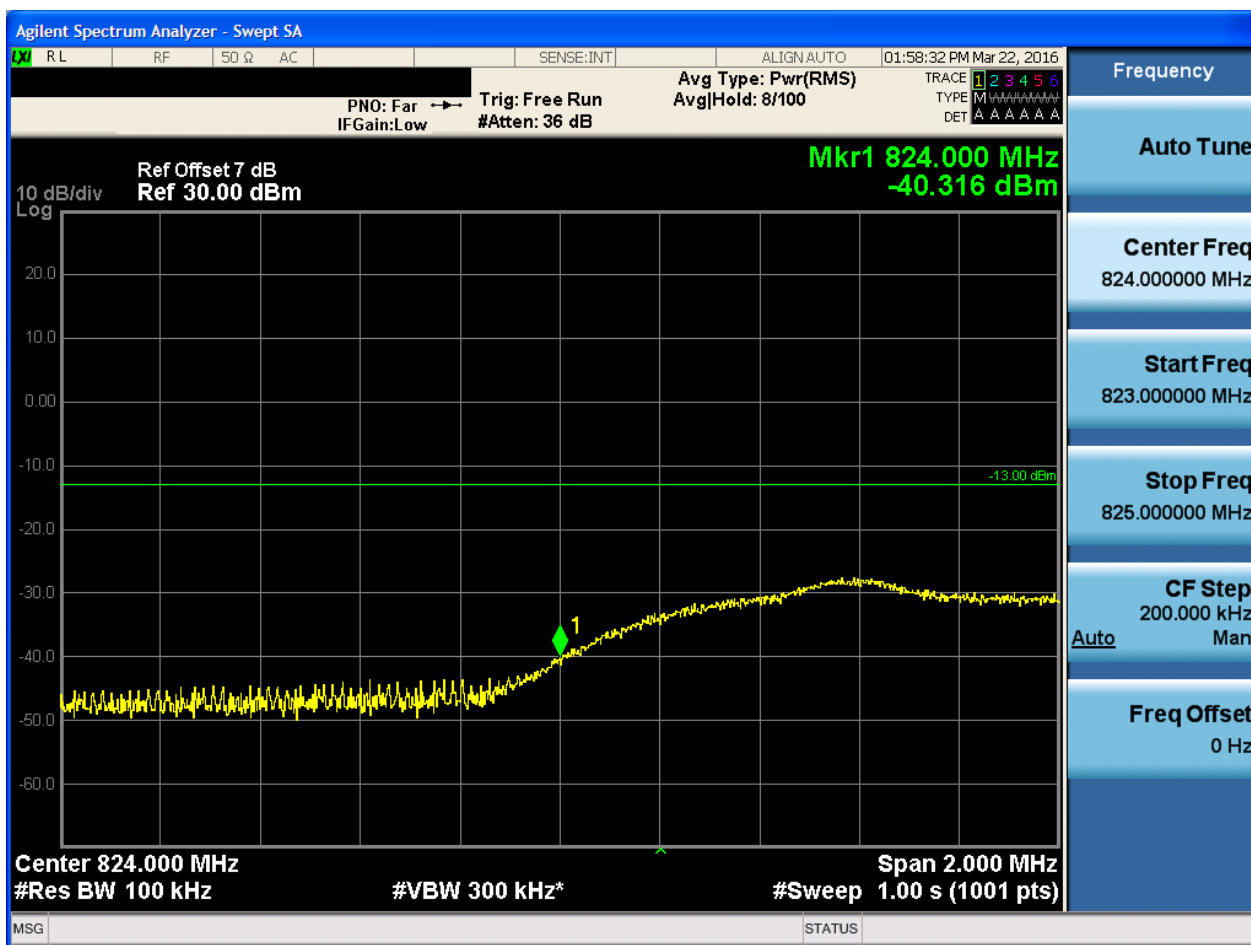
5.1.1.2.4 Test Bandwidth = 10

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:58:47 PM Mar 22, 2016

Avg Type: Pwr(RMS) AvgHold: 8/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET A A A A A A

PNO: Far Trigg: Free Run

IFGain:Low #Atten: 36 dB

Ref Offset 7 dB

Ref 30.00 dBm

Mkr1 823.970 MHz

-36.359 dBm

10 dB/div

Log

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-13.00 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

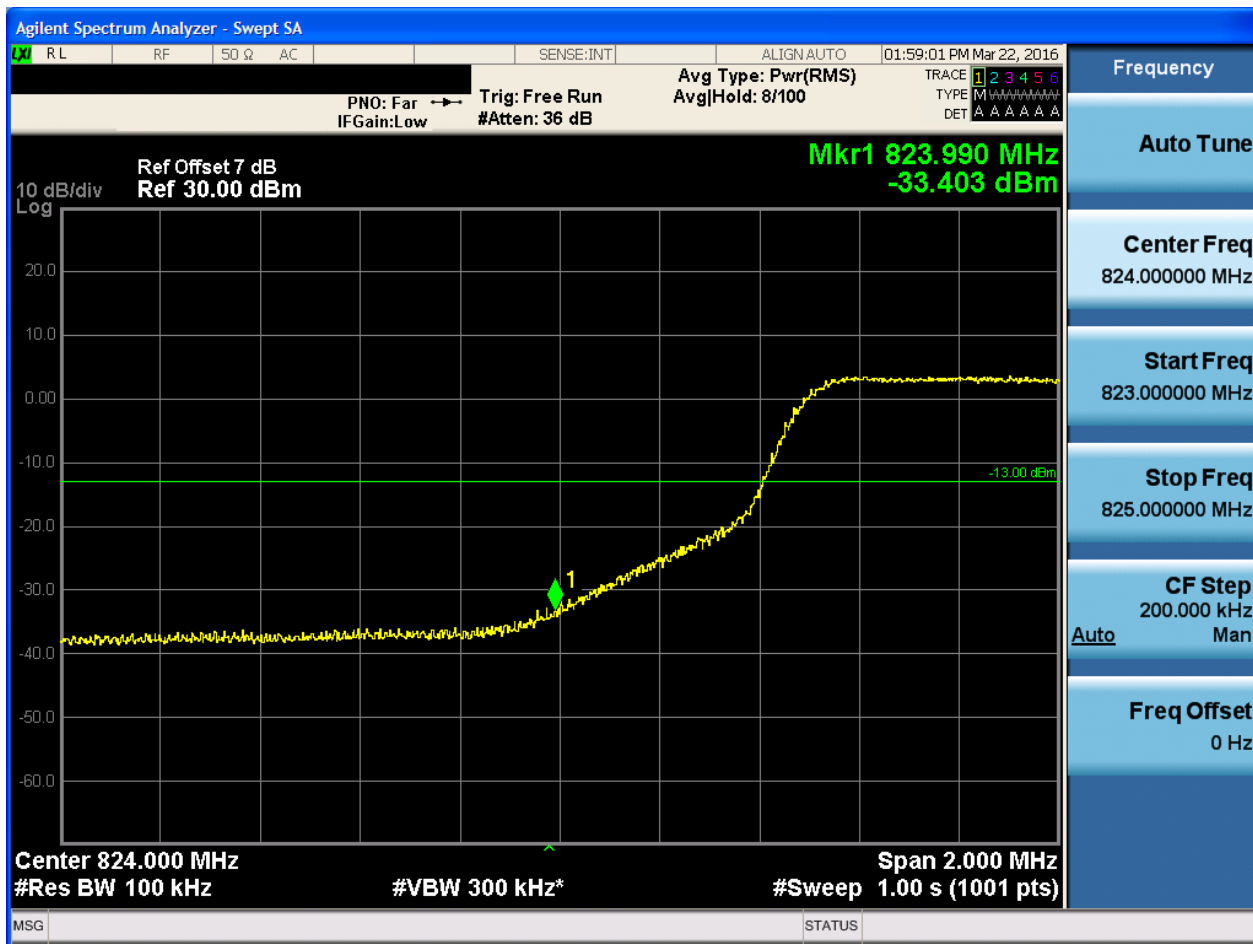
0 Hz

MSG STATUS

The image shows a screenshot of an Agilent Spectrum Analyzer in Swept SA mode. The main display is a log-frequency plot with a yellow trace representing the spectrum. A green diamond marker is placed on the trace at 823.970 MHz, with a power level of -36.359 dBm. The plot has a vertical scale from -60.0 to 20.0 dBm and a horizontal scale from 823.000000 MHz to 825.000000 MHz. The center frequency is 824.000 MHz, the resolution bandwidth (Res BW) is 100 kHz, the video bandwidth (VBW) is 300 kHz, and the span is 2.000 MHz. The sweep time is 1.00 s (1001 pts). The top of the screen shows various control parameters including PNO: Far, Trigg: Free Run, IFGain:Low, #Atten: 36 dB, and a reference offset of 7 dB. The right side of the screen displays the frequency 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 of the screen shows the MSG and STATUS indicators.

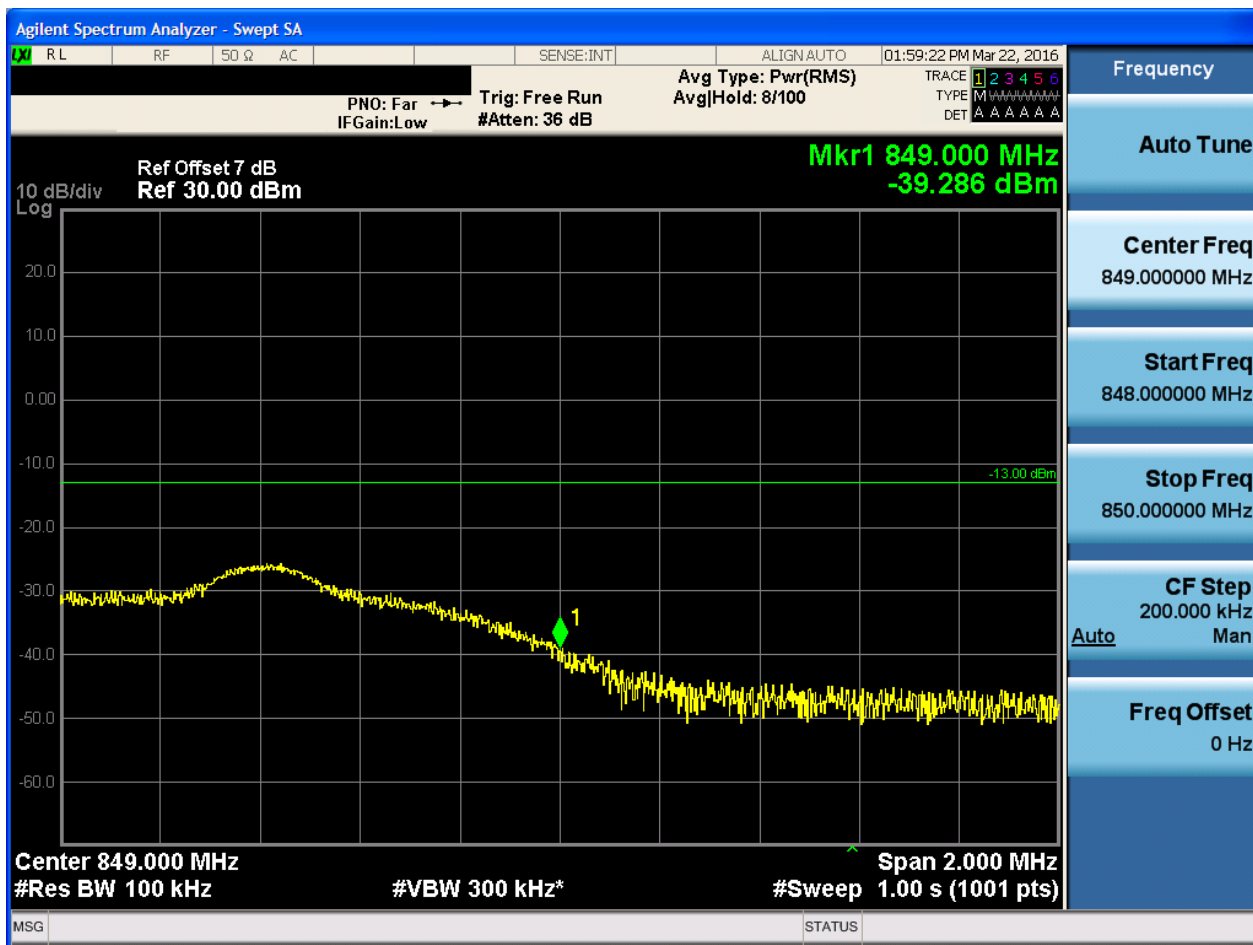


5.1.1.2.4.1.4 Test RB = RB50#0



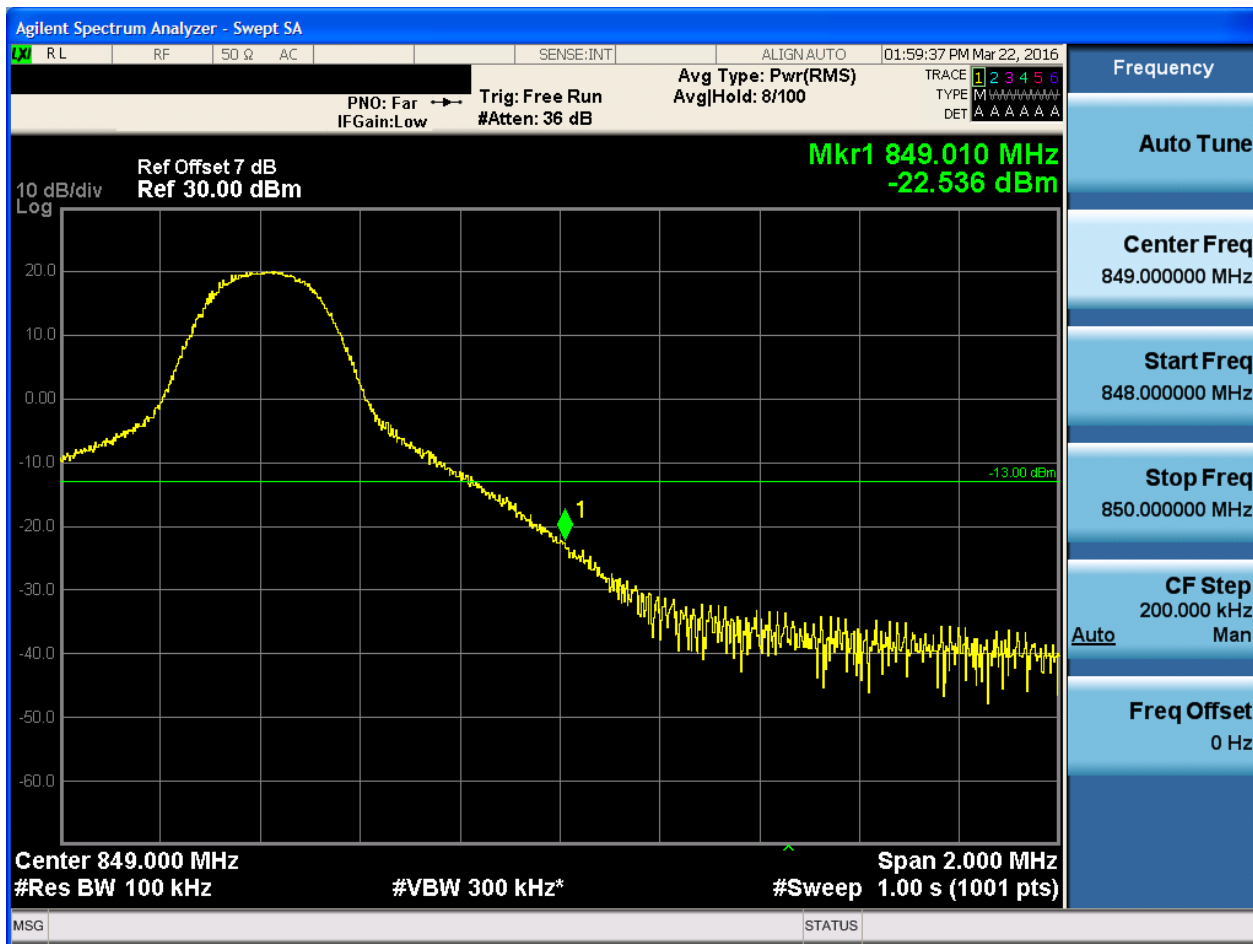
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



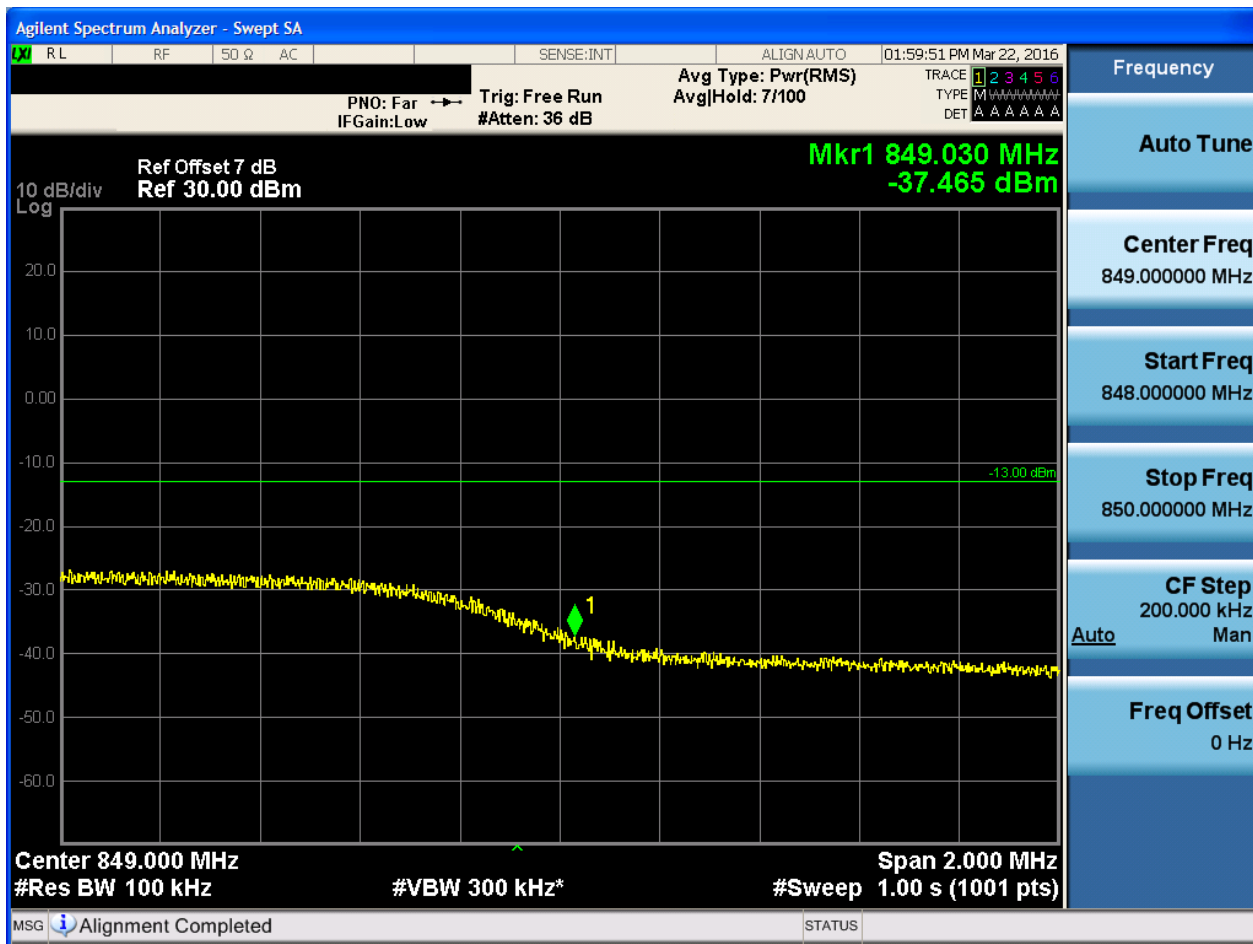


5.1.1.2.4.2.2 Test RB = RB1#49





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

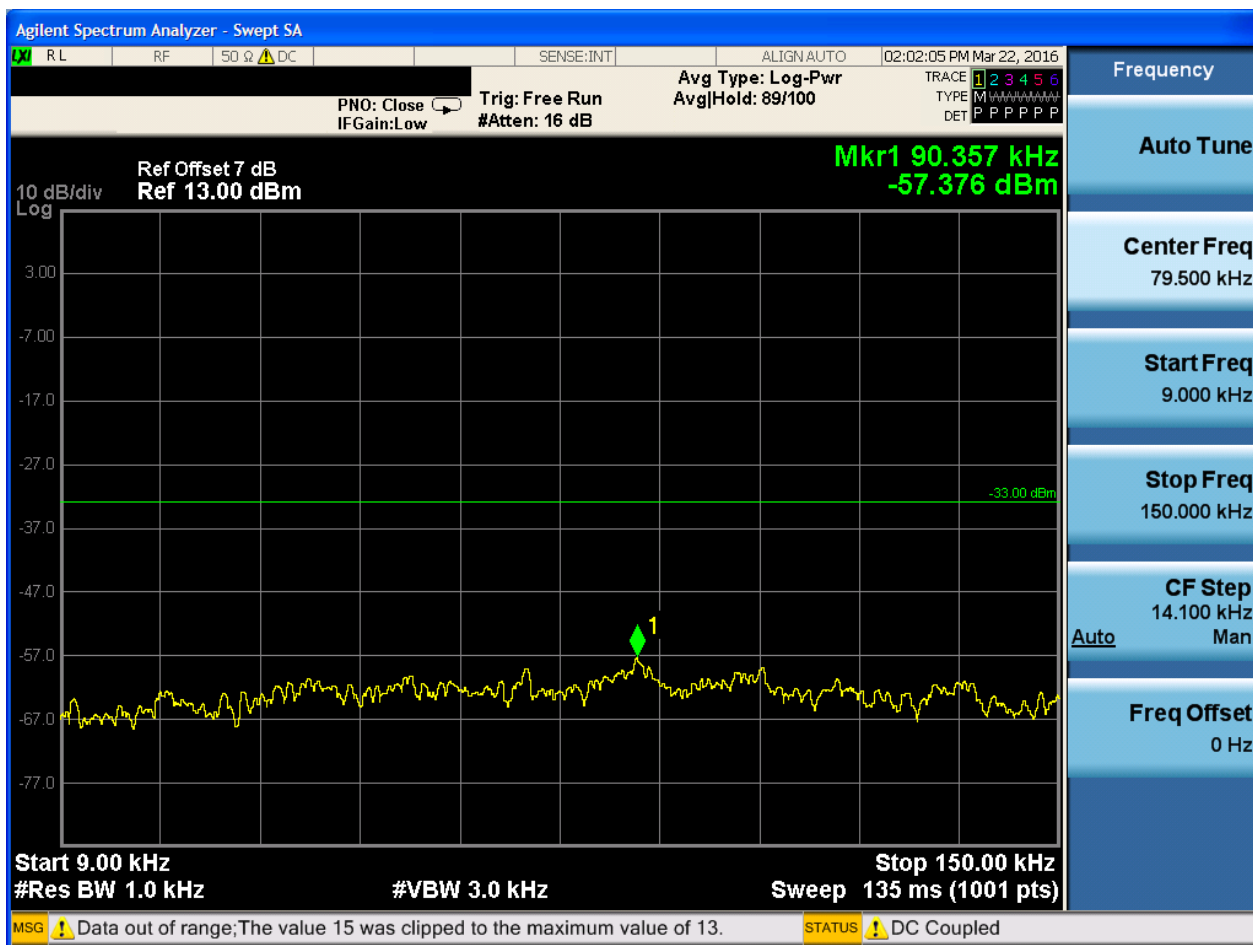
6.1.1 Test Band = BAND5

6.1.1.1 Test Mode = LTE/TM1

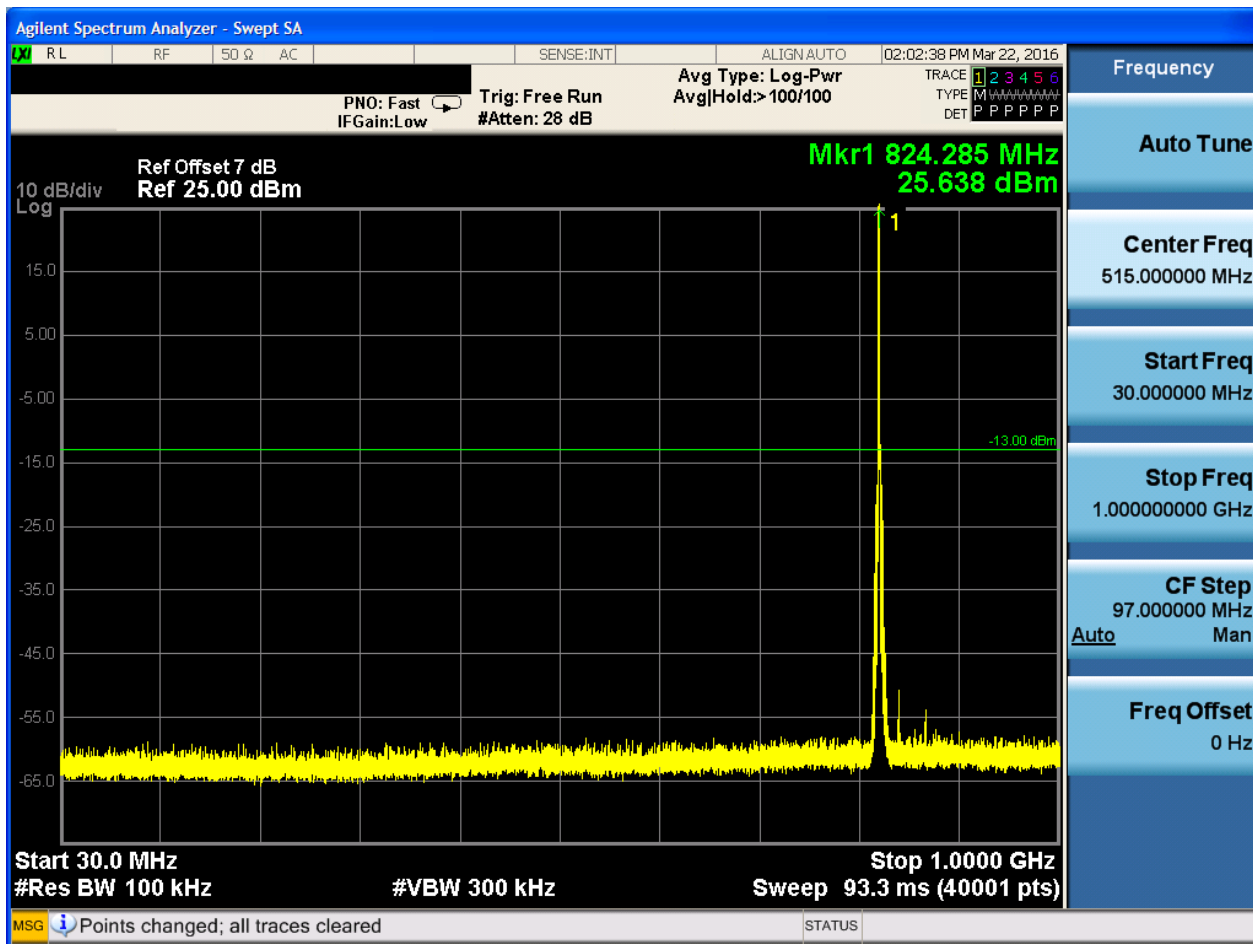
6.1.1.1.1 Test Bandwidth = 1.4

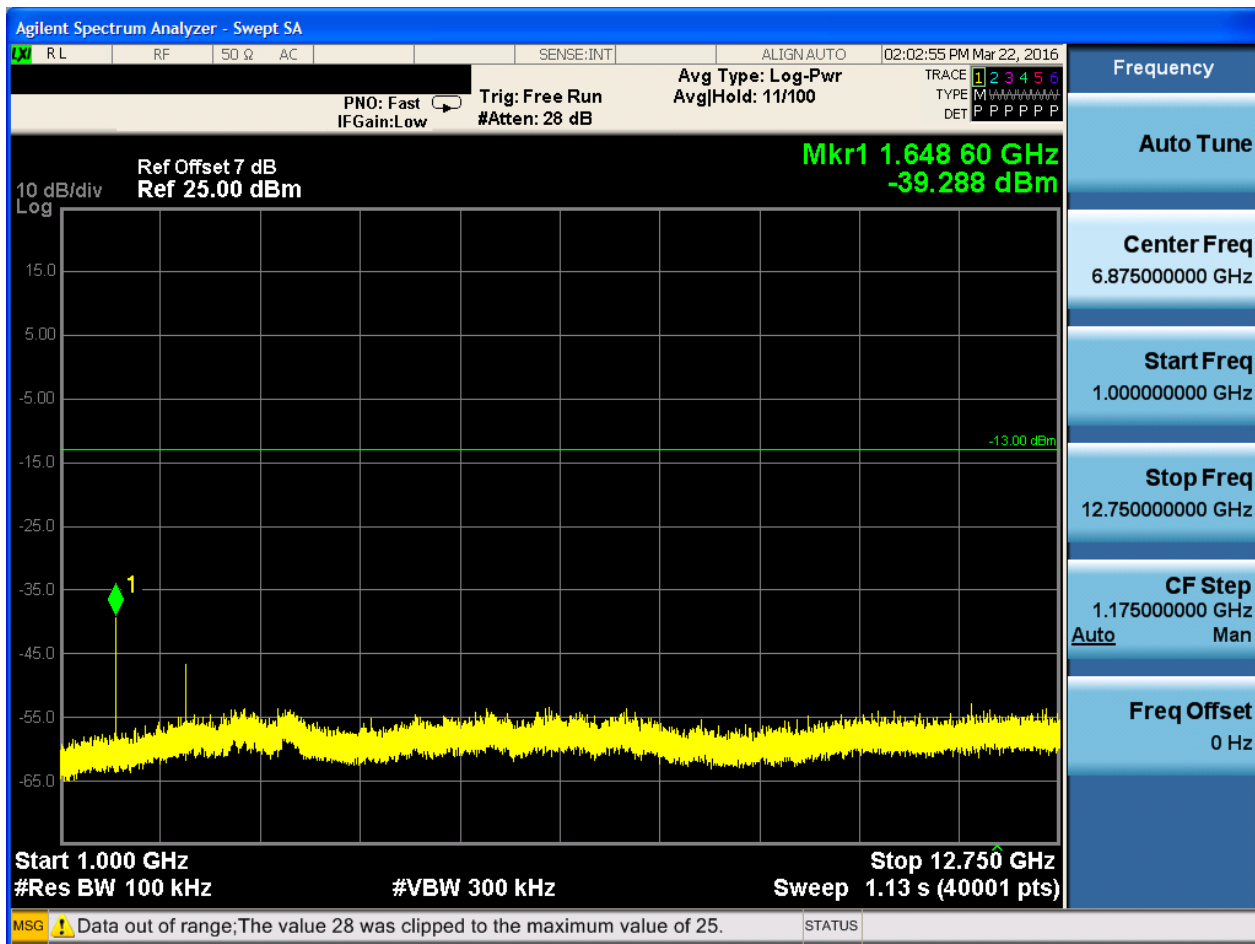
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0









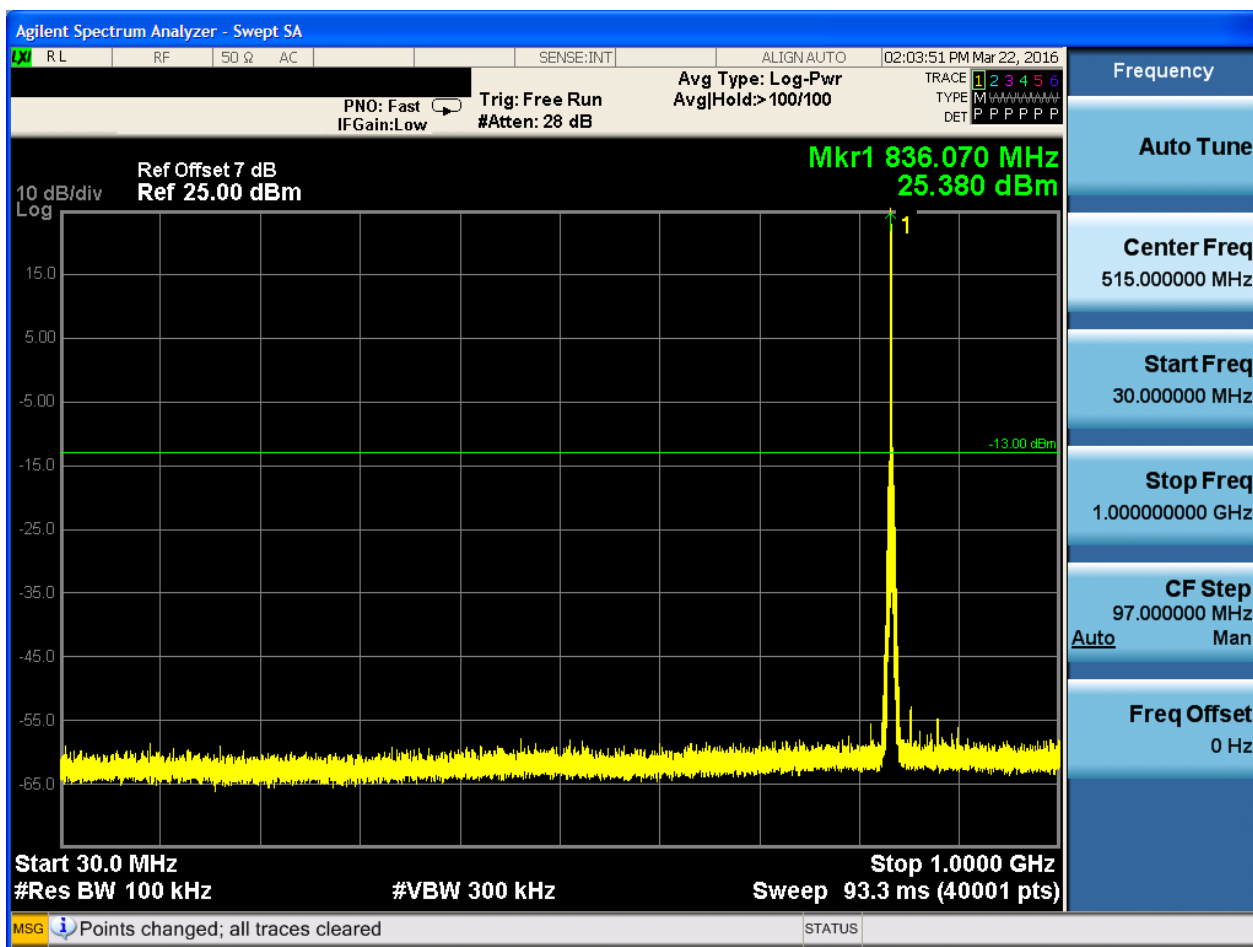


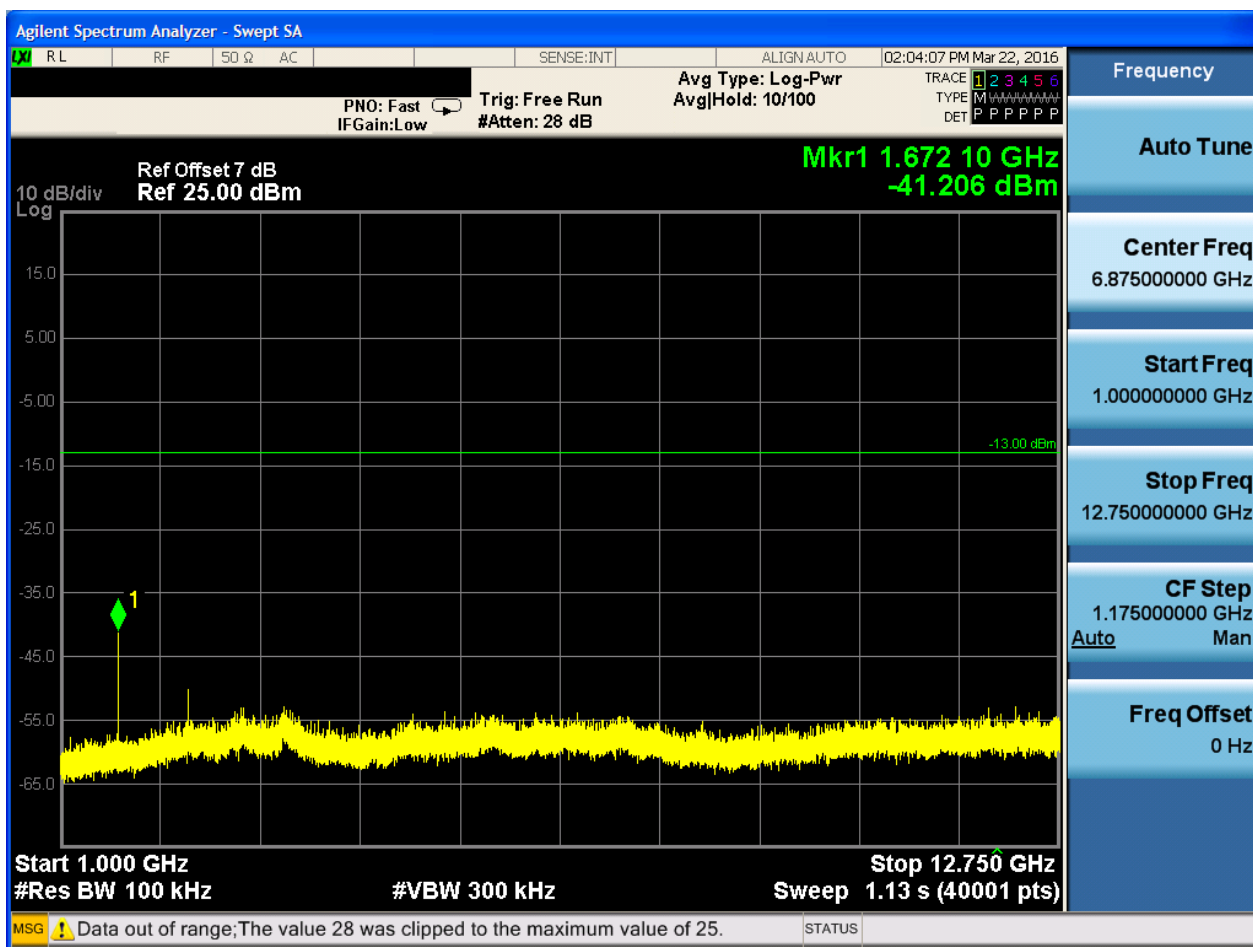
6.1.1.1.2 Test Channel = MCH

6.1.1.1.2.1 Test RB = RB1#0





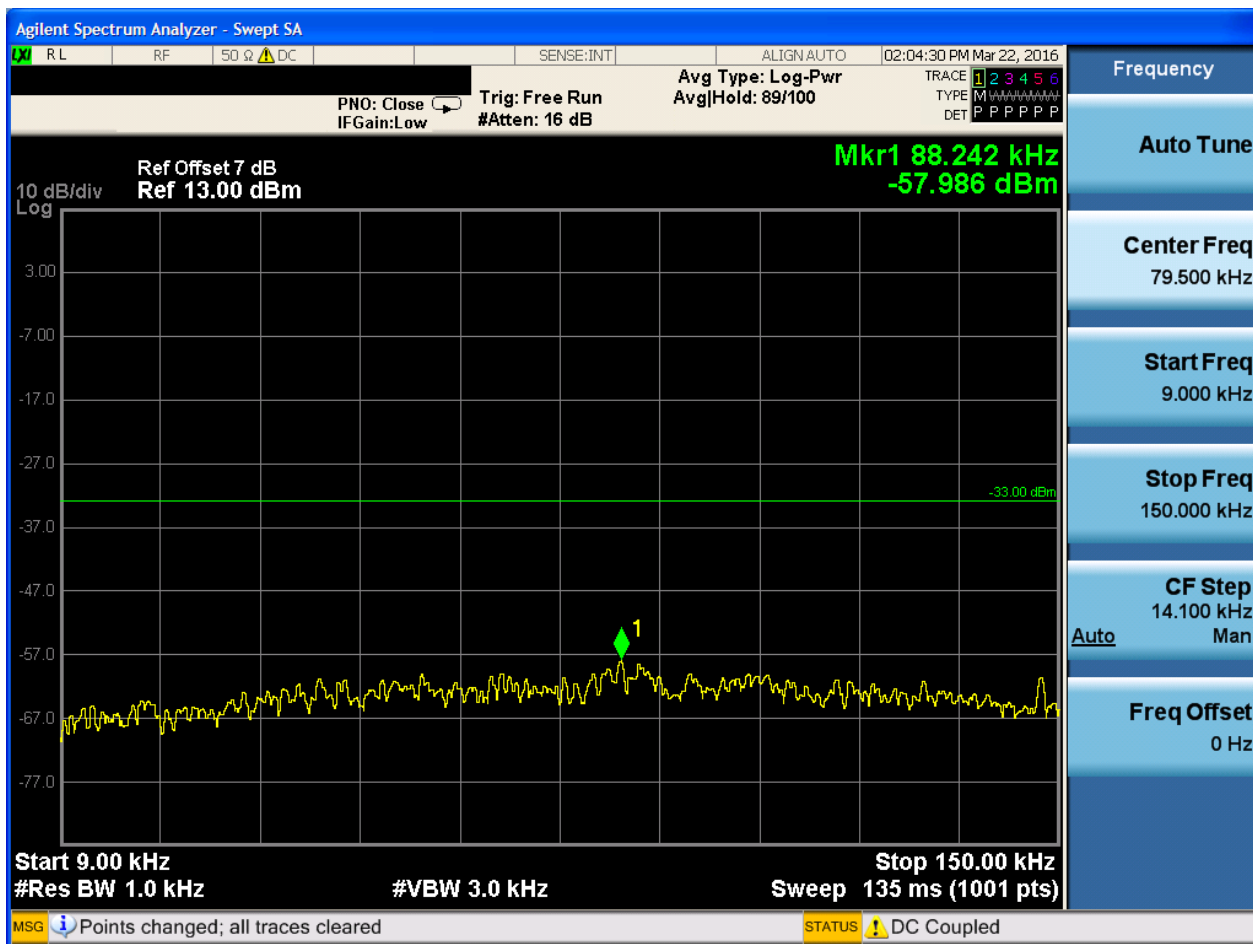




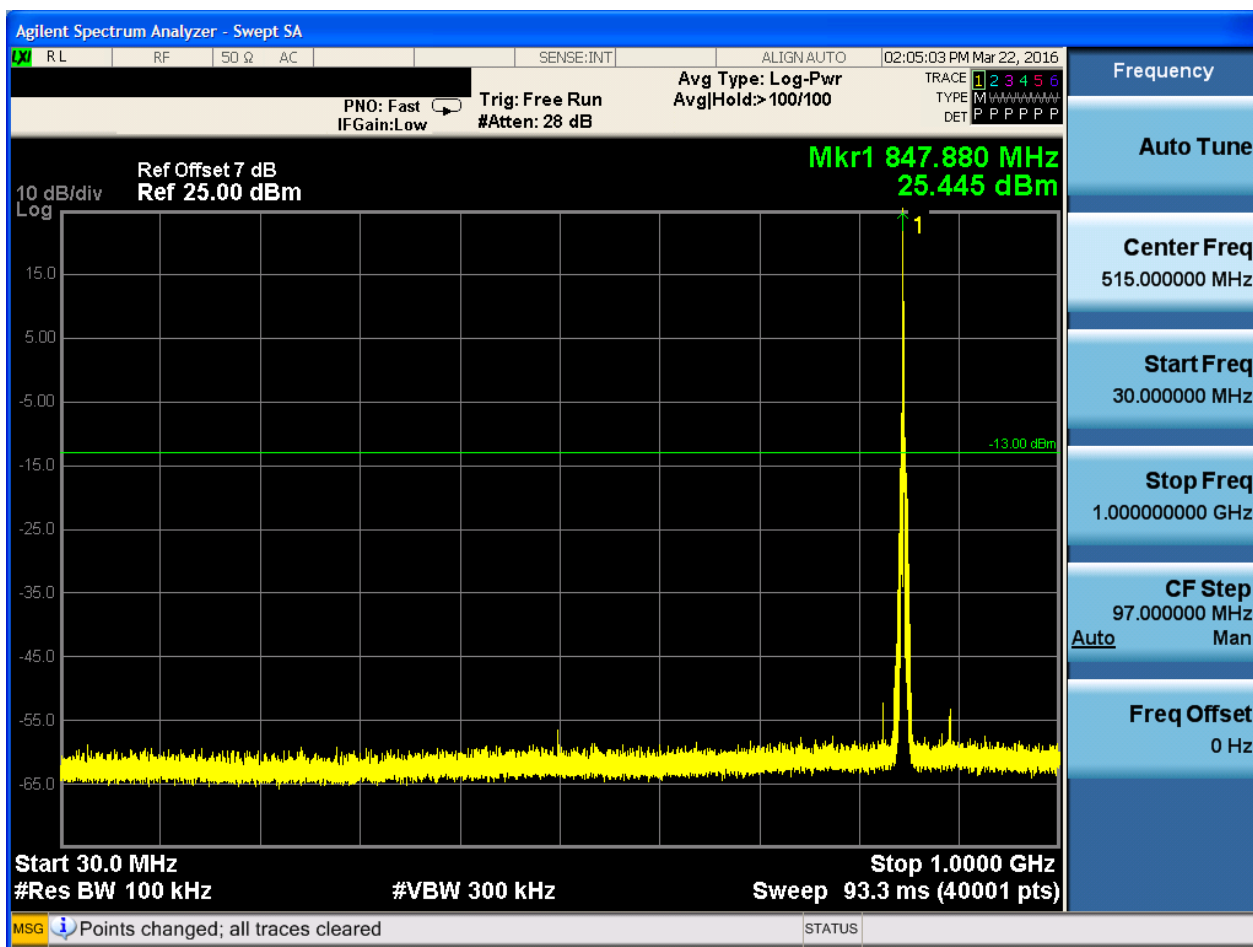


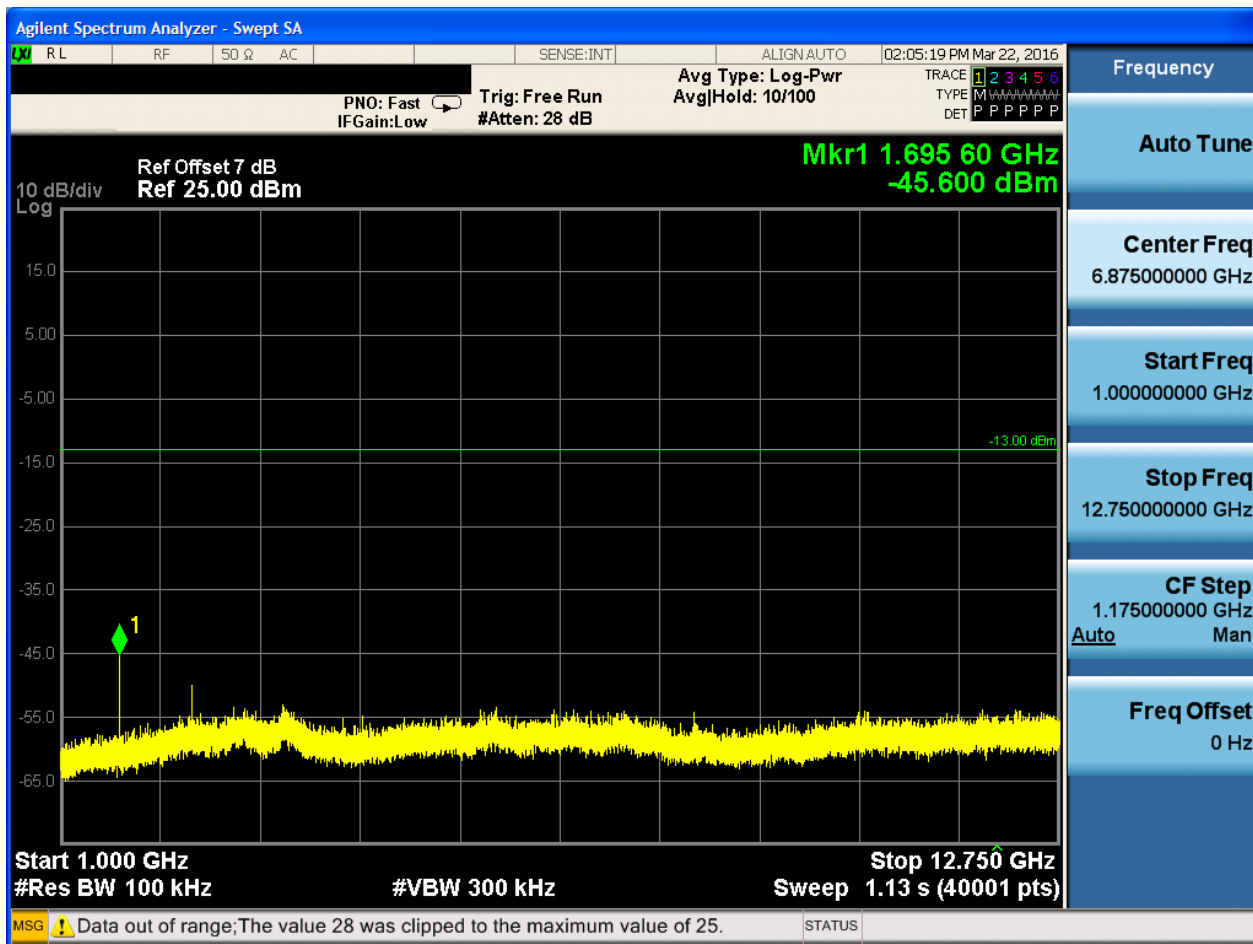
6.1.1.1.3 Test Channel = HCH

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

