



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	23.91	17.06	38.5	PASS
				RB1#3	23.95	17.1	38.5	PASS
				RB1#5	23.95	17.1	38.5	PASS
				RB3#0	23.96	17.11	38.5	PASS
				RB3#2	23.96	17.11	38.5	PASS
				RB3#3	23.96	17.11	38.5	PASS
				RB6#0	23.03	16.18	38.5	PASS
			MCH	RB1#0	23.87	17.02	38.5	PASS
				RB1#3	23.88	17.03	38.5	PASS
				RB1#5	23.84	16.99	38.5	PASS
				RB3#0	23.94	17.09	38.5	PASS
				RB3#2	23.9	17.05	38.5	PASS
				RB3#3	23.88	17.03	38.5	PASS
				RB6#0	22.93	16.08	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	24.12	17.27	38.5	PASS
				RB1#3	24.16	17.31	38.5	PASS
				RB1#5	24.03	17.18	38.5	PASS
				RB3#0	24.12	17.27	38.5	PASS
				RB3#2	24.09	17.24	38.5	PASS
				RB3#3	23.99	17.14	38.5	PASS
				RB6#0	23.03	16.18	38.5	PASS
		3	LCH	RB1#0	23.85	17	38.5	PASS
				RB1#7	24.08	17.23	38.5	PASS
				RB1#14	23.71	16.86	38.5	PASS
				RB8#0	23.03	16.18	38.5	PASS
				RB8#4	23.06	16.21	38.5	PASS
				RB8#7	22.94	16.09	38.5	PASS
				RB15#0	22.99	16.14	38.5	PASS
			MCH	RB1#0	23.74	16.89	38.5	PASS
				RB1#7	23.97	17.12	38.5	PASS
				RB1#14	23.73	16.88	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	22.97	16.12	38.5	PASS
				RB8#4	22.91	16.06	38.5	PASS
				RB8#7	22.88	16.03	38.5	PASS
				RB15#0	22.88	16.03	38.5	PASS
			HCH	RB1#0	23.89	17.04	38.5	PASS
				RB1#7	24.21	17.36	38.5	PASS
				RB1#14	23.84	16.99	38.5	PASS
				RB8#0	22.99	16.14	38.5	PASS
				RB8#4	23.05	16.2	38.5	PASS
				RB8#7	22.99	16.14	38.5	PASS
				RB15#0	23	16.15	38.5	PASS
		5	LCH	RB1#0	23.77	16.92	38.5	PASS
				RB1#13	24.02	17.17	38.5	PASS
				RB1#24	23.53	16.68	38.5	PASS
				RB12#0	22.99	16.14	38.5	PASS
				RB12#6	23.02	16.17	38.5	PASS
				RB12#13	22.81	15.96	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.89	16.04	38.5	PASS
			MCH	RB1#0	23.67	16.82	38.5	PASS
				RB1#13	23.95	17.1	38.5	PASS
				RB1#24	23.57	16.72	38.5	PASS
				RB12#0	22.86	16.01	38.5	PASS
				RB12#6	22.94	16.09	38.5	PASS
				RB12#13	22.79	15.94	38.5	PASS
				RB25#0	22.86	16.01	38.5	PASS
			HCH	RB1#0	23.85	17	38.5	PASS
				RB1#13	24.09	17.24	38.5	PASS
				RB1#24	23.65	16.8	38.5	PASS
				RB12#0	22.94	16.09	38.5	PASS
				RB12#6	23.05	16.2	38.5	PASS
				RB12#13	22.86	16.01	38.5	PASS
				RB25#0	22.93	16.08	38.5	PASS
		10	LCH	RB1#0	22.49	15.64	38.5	PASS
				RB1#25	22.76	15.91	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.12	15.27	38.5	PASS
				RB25#0	22.79	15.94	38.5	PASS
				RB25#13	22.77	15.92	38.5	PASS
				RB25#25	22.55	15.7	38.5	PASS
				RB50#0	22.69	15.84	38.5	PASS
			MCH	RB1#0	22.16	15.31	38.5	PASS
				RB1#25	22.78	15.93	38.5	PASS
				RB1#49	22.39	15.54	38.5	PASS
				RB25#0	22.73	15.88	38.5	PASS
				RB25#13	22.86	16.01	38.5	PASS
				RB25#25	22.7	15.85	38.5	PASS
				RB50#0	22.74	15.89	38.5	PASS
			HCH	RB1#0	22.59	15.74	38.5	PASS
				RB1#25	23.08	16.23	38.5	PASS
				RB1#49	22.58	15.73	38.5	PASS
				RB25#0	22.92	16.07	38.5	PASS
				RB25#13	22.94	16.09	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	22.77	15.92	38.5	PASS
				RB50#0	22.88	16.03	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	23.11	16.26	38.5	PASS
				RB1#3	23.22	16.37	38.5	PASS
				RB1#5	22.93	16.08	38.5	PASS
				RB3#0	23.07	16.22	38.5	PASS
				RB3#2	23.09	16.24	38.5	PASS
				RB3#3	23.05	16.2	38.5	PASS
				RB6#0	22.01	15.16	38.5	PASS
			MCH	RB1#0	23.11	16.26	38.5	PASS
				RB1#3	23.13	16.28	38.5	PASS
				RB1#5	23.03	16.18	38.5	PASS
				RB3#0	22.98	16.13	38.5	PASS
				RB3#2	22.91	16.06	38.5	PASS
				RB3#3	22.93	16.08	38.5	PASS
				RB6#0	22.01	15.16	38.5	PASS
			HCH	RB1#0	23.21	16.36	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	23.27	16.42	38.5	PASS
				RB1#5	23.13	16.28	38.5	PASS
				RB3#0	23.12	16.27	38.5	PASS
				RB3#2	23.1	16.25	38.5	PASS
				RB3#3	22.91	16.06	38.5	PASS
				RB6#0	22.08	15.23	38.5	PASS
		3	LCH	RB1#0	22.91	16.06	38.5	PASS
				RB1#7	23.03	16.18	38.5	PASS
				RB1#14	22.63	15.78	38.5	PASS
				RB8#0	22.01	15.16	38.5	PASS
				RB8#4	22	15.15	38.5	PASS
				RB8#7	21.89	15.04	38.5	PASS
				RB15#0	21.9	15.05	38.5	PASS
			MCH	RB1#0	22.71	15.86	38.5	PASS
				RB1#7	22.9	16.05	38.5	PASS
				RB1#14	22.58	15.73	38.5	PASS
				RB8#0	21.95	15.1	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#4	22.01	15.16	38.5	PASS
				RB8#7	21.99	15.14	38.5	PASS
				RB15#0	21.96	15.11	38.5	PASS
			HCH	RB1#0	22.93	16.08	38.5	PASS
				RB1#7	23.22	16.37	38.5	PASS
				RB1#14	22.9	16.05	38.5	PASS
				RB8#0	21.95	15.1	38.5	PASS
				RB8#4	22	15.15	38.5	PASS
				RB8#7	21.94	15.09	38.5	PASS
				RB15#0	22.05	15.2	38.5	PASS
		5	LCH	RB1#0	22.73	15.88	38.5	PASS
				RB1#13	22.93	16.08	38.5	PASS
				RB1#24	22.52	15.67	38.5	PASS
				RB12#0	21.99	15.14	38.5	PASS
				RB12#6	22.04	15.19	38.5	PASS
				RB12#13	21.83	14.98	38.5	PASS
				RB25#0	21.78	14.93	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.76	15.91	38.5	PASS
				RB1#13	23.01	16.16	38.5	PASS
				RB1#24	22.59	15.74	38.5	PASS
				RB12#0	21.88	15.03	38.5	PASS
				RB12#6	22.09	15.24	38.5	PASS
				RB12#13	21.94	15.09	38.5	PASS
				RB25#0	21.96	15.11	38.5	PASS
			HCH	RB1#0	23.11	16.26	38.5	PASS
				RB1#13	23.38	16.53	38.5	PASS
				RB1#24	22.91	16.06	38.5	PASS
				RB12#0	21.93	15.08	38.5	PASS
				RB12#6	22.05	15.2	38.5	PASS
				RB12#13	21.87	15.02	38.5	PASS
				RB25#0	21.9	15.05	38.5	PASS
		10	LCH	RB1#0	22.51	15.66	38.5	PASS
				RB1#25	22.89	16.04	38.5	PASS
				RB1#49	22.24	15.39	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.7	14.85	38.5	PASS
				RB25#13	21.71	14.86	38.5	PASS
				RB25#25	21.51	14.66	38.5	PASS
				RB50#0	21.67	14.82	38.5	PASS
			MCH	RB1#0	22.14	15.29	38.5	PASS
				RB1#25	22.73	15.88	38.5	PASS
				RB1#49	22.36	15.51	38.5	PASS
				RB25#0	21.71	14.86	38.5	PASS
				RB25#13	21.96	15.11	38.5	PASS
				RB25#25	21.78	14.93	38.5	PASS
				RB50#0	21.85	15	38.5	PASS
			HCH	RB1#0	22.66	15.81	38.5	PASS
				RB1#25	23.19	16.34	38.5	PASS
				RB1#49	22.71	15.86	38.5	PASS
				RB25#0	21.88	15.03	38.5	PASS
				RB25#13	21.91	15.06	38.5	PASS
				RB25#25	21.75	14.9	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.86	15.01	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:

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

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

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

SET Sweep time=auto-couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB1#0	4.11	13	PASS
				RB1#3	3.9	13	PASS
				RB1#5	3.96	13	PASS
				RB3#0	4.28	13	PASS
				RB3#2	4.23	13	PASS
				RB3#3	4.35	13	PASS
				RB6#0	5.14	13	PASS
			MCH	RB1#0	3.88	13	PASS
				RB1#3	3.7	13	PASS
				RB1#5	3.76	13	PASS
				RB3#0	4.11	13	PASS
				RB3#2	3.95	13	PASS
				RB3#3	3.99	13	PASS
				RB6#0	5.22	13	PASS
			HCH	RB1#0	4.08	13	PASS
				RB1#3	3.94	13	PASS
				RB1#5	3.95	13	PASS
				RB3#0	4.68	13	PASS
				RB3#2	4.53	13	PASS
				RB3#3	4.6	13	PASS
				RB6#0	5.4	13	PASS
		3	LCH	RB1#0	4.1	13	PASS
				RB1#7	4.01	13	PASS
				RB1#14	4.34	13	PASS
				RB8#0	4.91	13	PASS
				RB8#4	4.94	13	PASS
				RB8#7	5	13	PASS
				RB15#0	5.45	13	PASS
			MCH	RB1#0	4.06	13	PASS
				RB1#7	3.58	13	PASS
				RB1#14	3.75	13	PASS
				RB8#0	4.91	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	4.81	13	PASS
				RB8#7	4.77	13	PASS
				RB15#0	5.42	13	PASS
			HCH	RB1#0	4.41	13	PASS
				RB1#7	4.08	13	PASS
				RB1#14	3.98	13	PASS
				RB8#0	5.59	13	PASS
				RB8#4	5.35	13	PASS
				RB8#7	5.33	13	PASS
				RB15#0	5.68	13	PASS
		5	LCH	RB1#0	4.17	13	PASS
				RB1#13	4.2	13	PASS
				RB1#24	4.75	13	PASS
				RB12#0	5.11	13	PASS
				RB12#6	5.03	13	PASS
				RB12#13	5.41	13	PASS
				RB25#0	5.56	13	PASS
			MCH	RB1#0	4.42	13	PASS
				RB1#13	3.72	13	PASS
				RB1#24	3.88	13	PASS
				RB12#0	5.11	13	PASS
				RB12#6	4.81	13	PASS
				RB12#13	4.85	13	PASS
				RB25#0	5.48	13	PASS
			HCH	RB1#0	4.47	13	PASS
				RB1#13	4.58	13	PASS
				RB1#24	4.42	13	PASS
				RB12#0	5.59	13	PASS
				RB12#6	5.57	13	PASS
				RB12#13	5.5	13	PASS
				RB25#0	5.92	13	PASS
		10	LCH	RB1#0	4.63	13	PASS
				RB1#25	4.86	13	PASS
				RB1#49	4.81	13	PASS
				RB25#0	5.41	13	PASS
				RB25#13	5.66	13	PASS
				RB25#25	5.86	13	PASS
				RB50#0	5.75	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	5.21	13	PASS
				RB1#25	4.42	13	PASS
				RB1#49	4.53	13	PASS
				RB25#0	5.45	13	PASS
				RB25#13	5.01	13	PASS
				RB25#25	5.18	13	PASS
				RB50#0	5.59	13	PASS
			HCH	RB1#0	4.4	13	PASS
				RB1#25	4.63	13	PASS
				RB1#49	4.79	13	PASS
				RB25#0	5.27	13	PASS
				RB25#13	5.53	13	PASS
				RB25#25	5.77	13	PASS
				RB50#0	5.69	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.63	13	PASS
				RB1#3	4.78	13	PASS
				RB1#5	4.72	13	PASS
				RB3#0	4.83	13	PASS
				RB3#2	4.81	13	PASS
				RB3#3	4.93	13	PASS
				RB6#0	6	13	PASS
			MCH	RB1#0	4.63	13	PASS
				RB1#3	4.67	13	PASS
				RB1#5	4.62	13	PASS
				RB3#0	4.91	13	PASS
				RB3#2	4.72	13	PASS
				RB3#3	4.85	13	PASS
				RB6#0	6.02	13	PASS
			HCH	RB1#0	4.91	13	PASS
				RB1#3	4.81	13	PASS
				RB1#5	4.65	13	PASS
				RB3#0	5.2	13	PASS
				RB3#2	5.11	13	PASS
				RB3#3	5.11	13	PASS
				RB6#0	6.06	13	PASS
		3	LCH	RB1#0	4.98	13	PASS
				RB1#7	4.53	13	PASS
				RB1#14	5.21	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.54	13	PASS
				RB8#4	5.71	13	PASS
				RB8#7	5.78	13	PASS
				RB15#0	6.08	13	PASS
			MCH	RB1#0	4.71	13	PASS
				RB1#7	4.43	13	PASS
				RB1#14	4.63	13	PASS
				RB8#0	5.43	13	PASS
				RB8#4	5.64	13	PASS
				RB8#7	5.67	13	PASS
				RB15#0	5.98	13	PASS
			HCH	RB1#0	5.38	13	PASS
				RB1#7	5.06	13	PASS
				RB1#14	4.98	13	PASS
				RB8#0	5.99	13	PASS
				RB8#4	5.84	13	PASS
				RB8#7	6	13	PASS
				RB15#0	6.12	13	PASS
		5	LCH	RB1#0	4.84	13	PASS
				RB1#13	4.95	13	PASS
				RB1#24	5.35	13	PASS
				RB12#0	5.7	13	PASS
				RB12#6	5.66	13	PASS
				RB12#13	6.01	13	PASS
				RB25#0	6.21	13	PASS
			MCH	RB1#0	4.97	13	PASS
				RB1#13	4.55	13	PASS
				RB1#24	4.87	13	PASS
				RB12#0	5.66	13	PASS
				RB12#6	5.51	13	PASS
				RB12#13	5.51	13	PASS
				RB25#0	6.29	13	PASS
			HCH	RB1#0	5.05	13	PASS
				RB1#13	5.22	13	PASS
				RB1#24	4.97	13	PASS
				RB12#0	6.17	13	PASS
				RB12#6	6.21	13	PASS
				RB12#13	6.08	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.46	13	PASS
		10	LCH	RB1#0	5.57	13	PASS
				RB1#25	5.9	13	PASS
				RB1#49	6.04	13	PASS
				RB25#0	6.09	13	PASS
				RB25#13	6.45	13	PASS
				RB25#25	6.48	13	PASS
				RB50#0	6.68	13	PASS
			MCH	RB1#0	5.93	13	PASS
				RB1#25	4.8	13	PASS
				RB1#49	5.08	13	PASS
				RB25#0	6.14	13	PASS
				RB25#13	5.77	13	PASS
				RB25#25	5.69	13	PASS
				RB50#0	6.41	13	PASS
			HCH	RB1#0	5	13	PASS
				RB1#25	5.21	13	PASS
				RB1#49	5.58	13	PASS
				RB25#0	5.78	13	PASS
				RB25#13	6.08	13	PASS
				RB25#25	6.38	13	PASS
				RB50#0	6.38	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

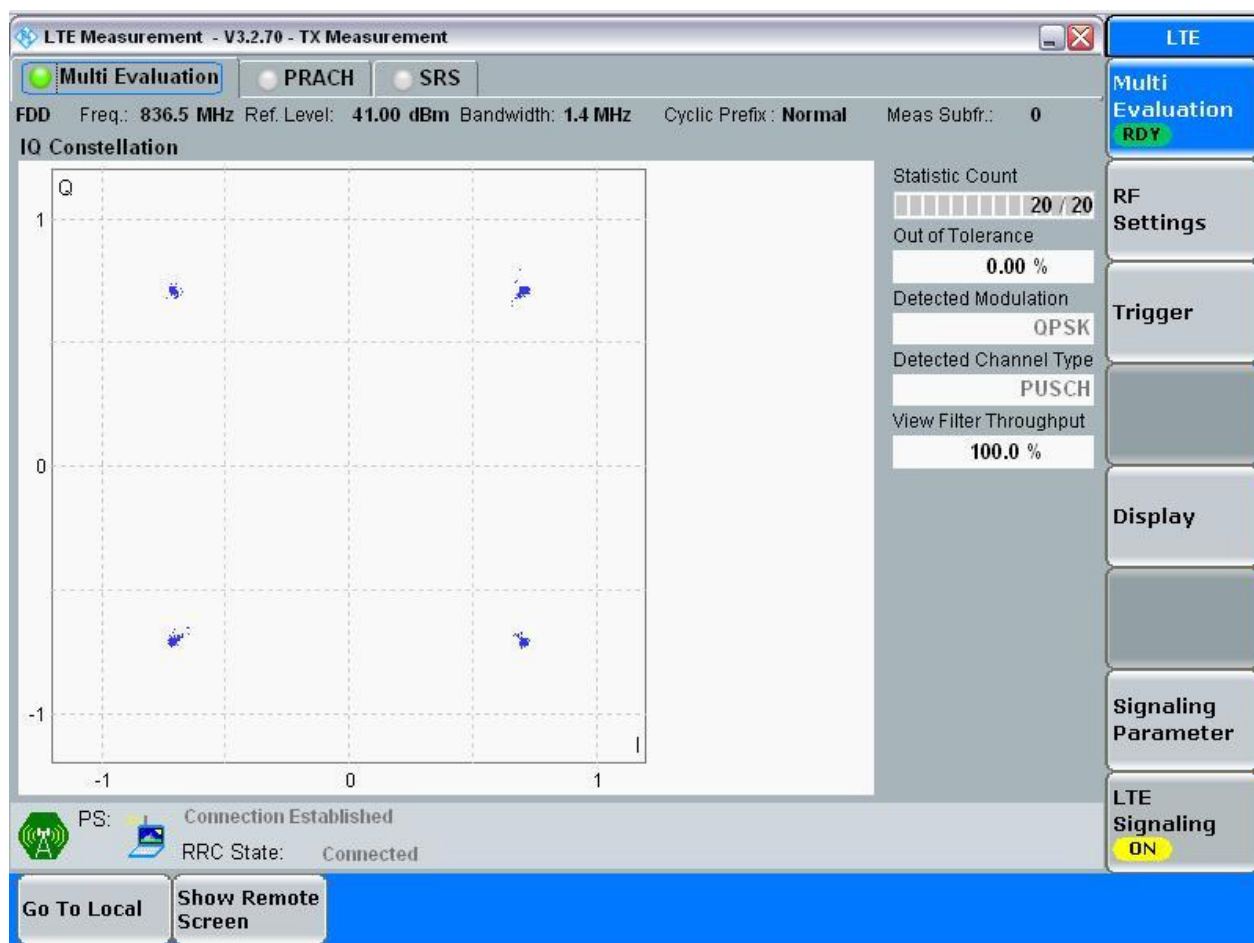
3.1.1 Test Band = BAND5

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

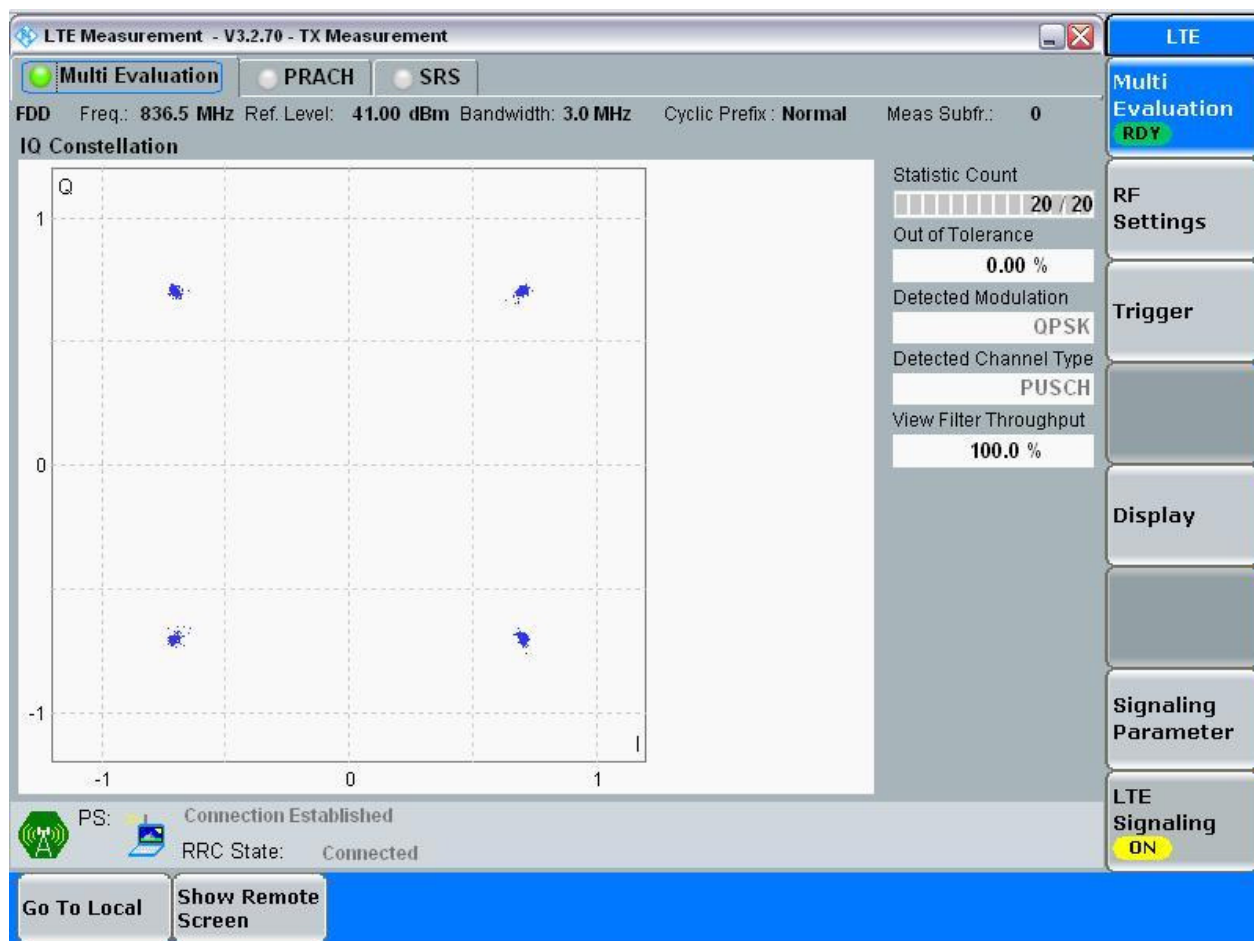
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

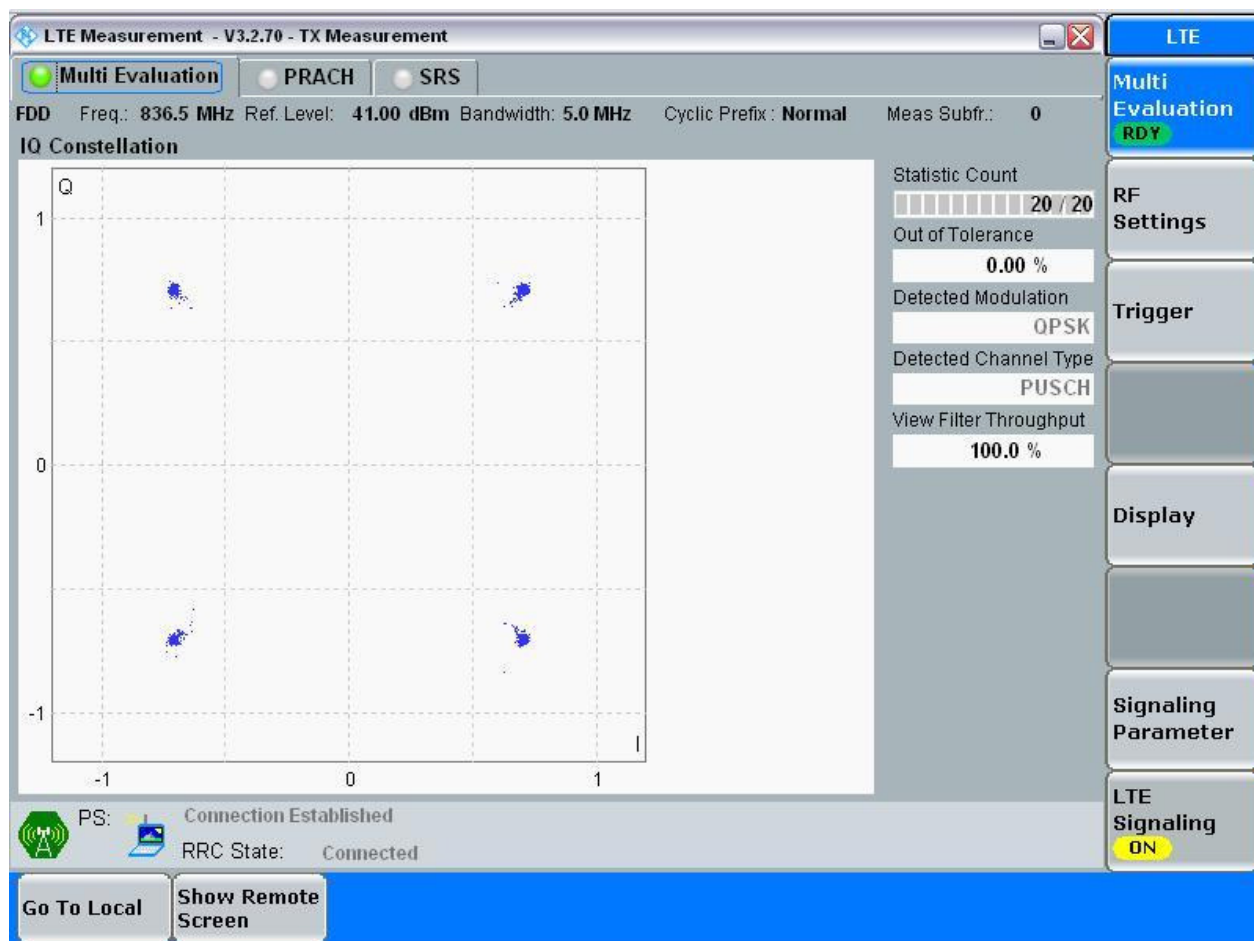
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

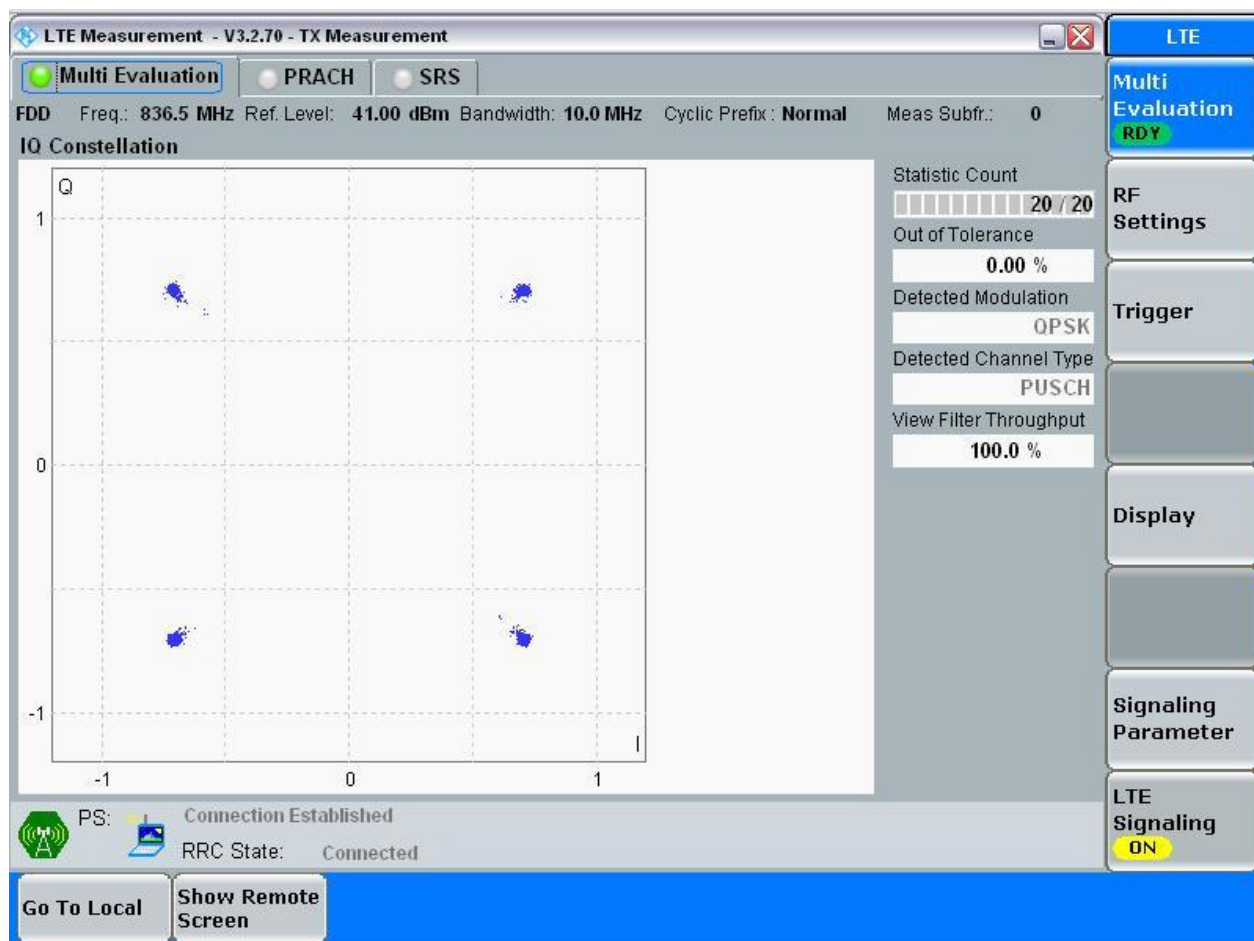
3.1.1.1.3.1.1 Test RB = RB25#0



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

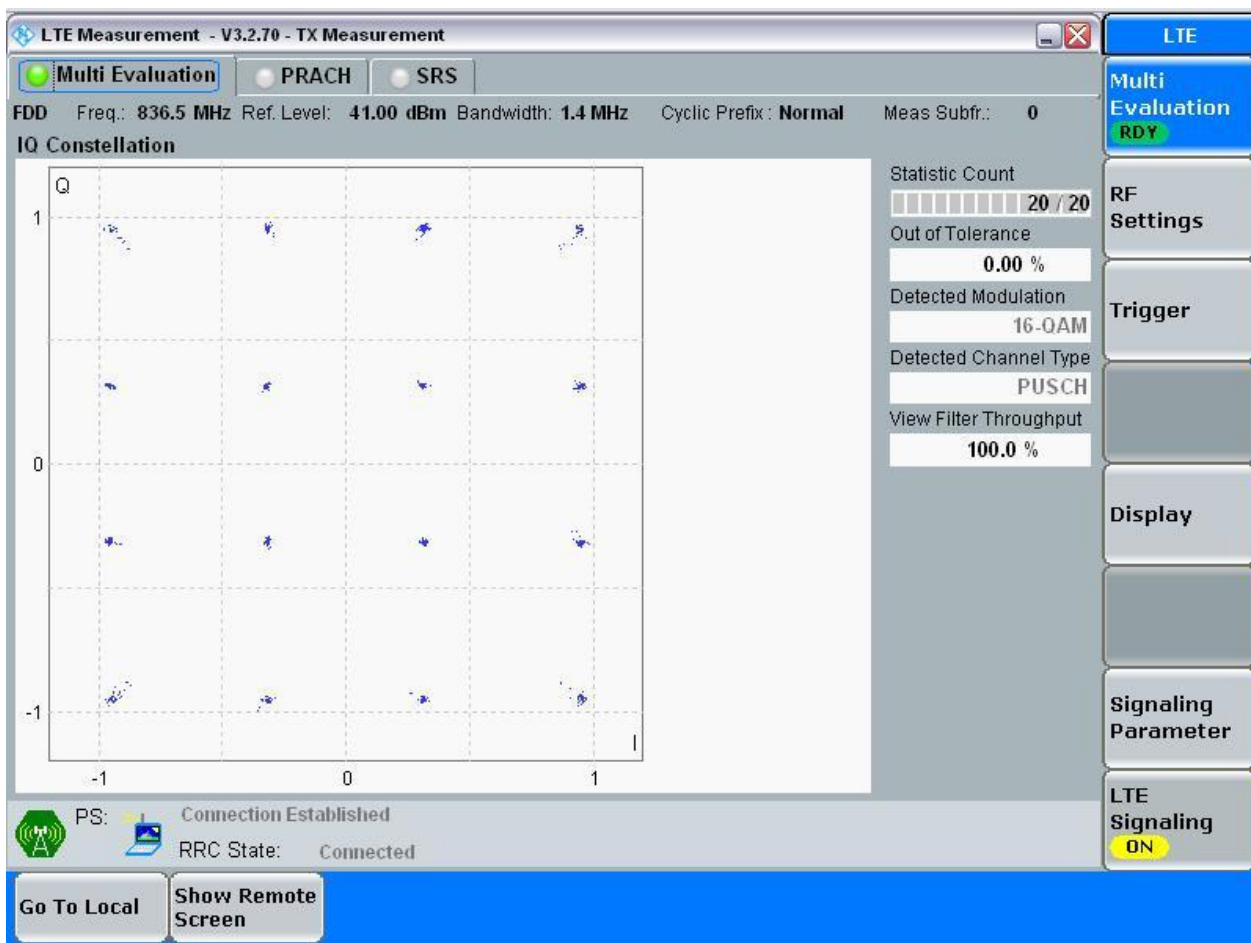


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

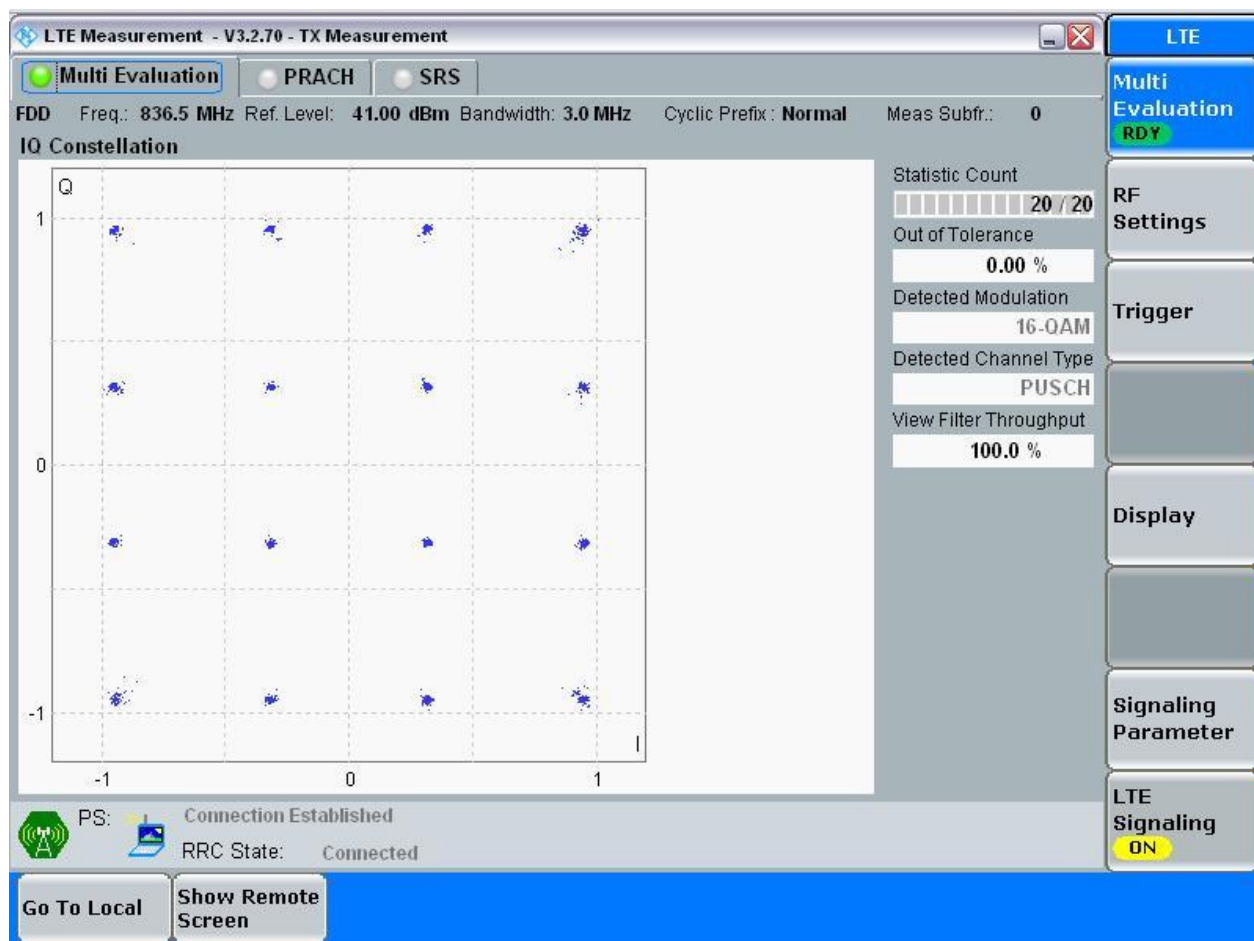
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

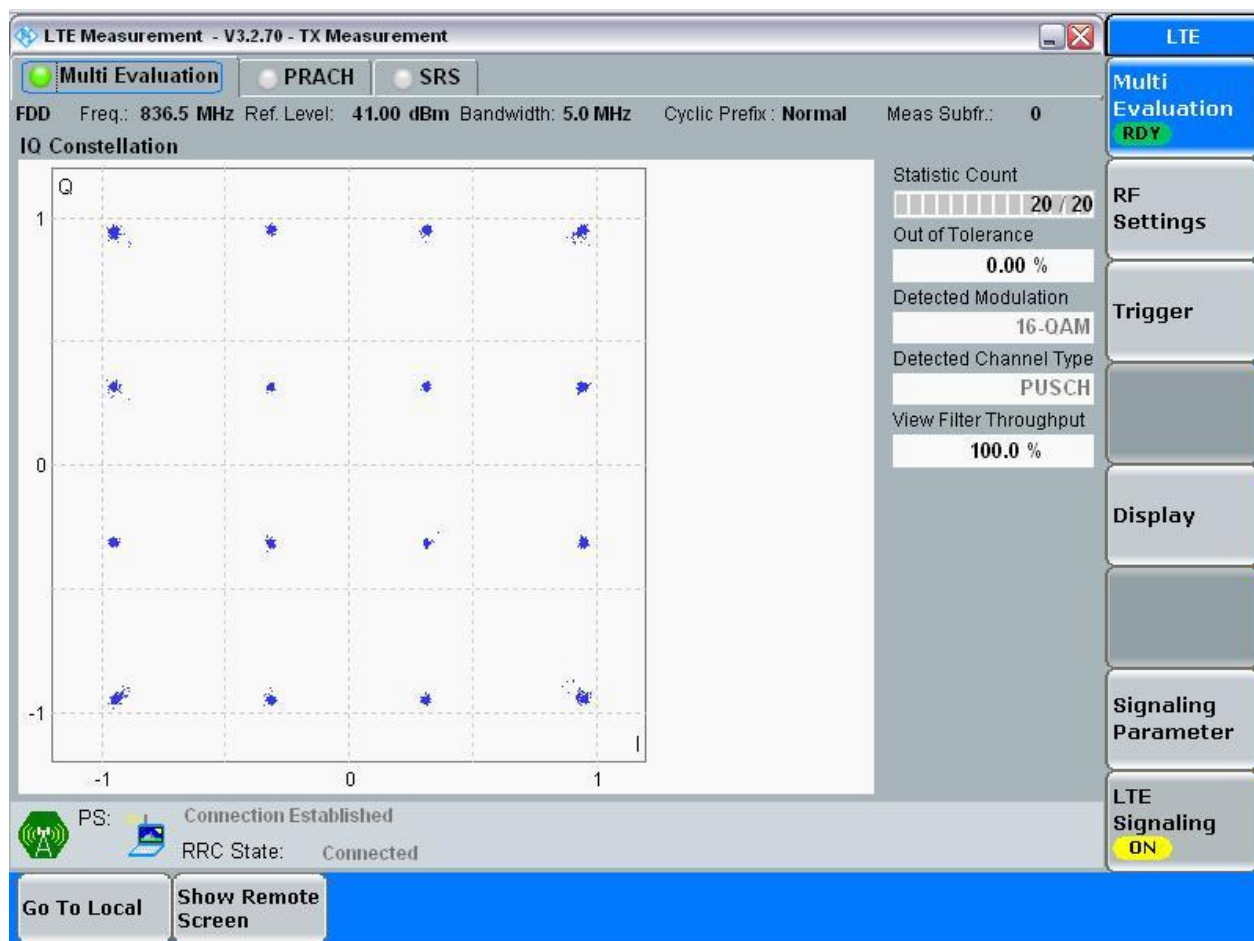
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

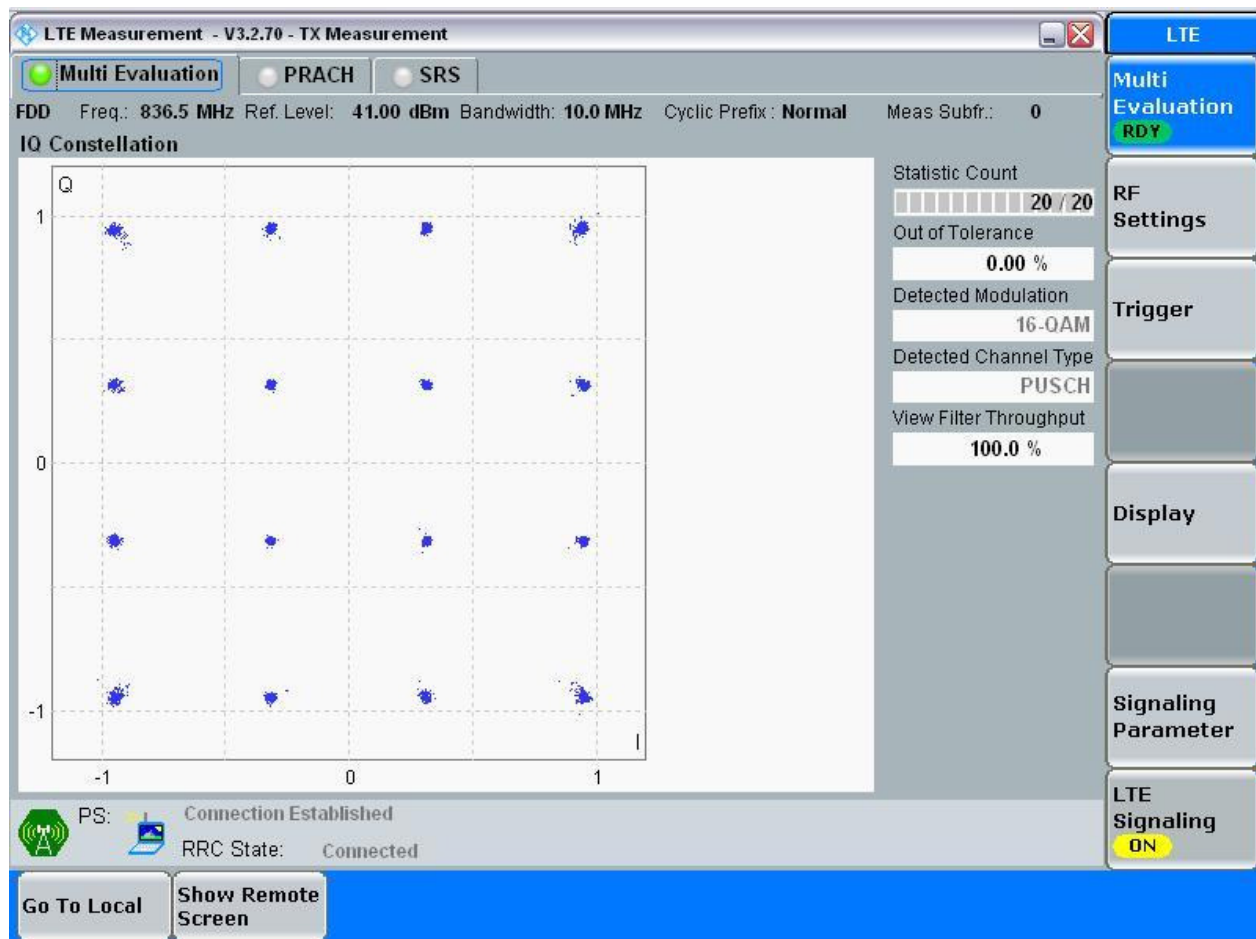
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.10	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	2.97	Pass
			MCH	RB15#0	2.71	2.97	Pass
			HCH	RB15#0	2.71	2.98	Pass
		5	LCH	RB25#0	4.50	4.95	Pass
			MCH	RB25#0	4.51	4.95	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	8.97	9.89	Pass
			MCH	RB50#0	8.99	9.88	Pass
			HCH	RB50#0	9.00	9.97	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.71	2.98	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.71	2.98	Pass
		5	LCH	RB25#0	4.53	4.99	Pass
			MCH	RB25#0	4.51	4.98	Pass
			HCH	RB25#0	4.52	4.98	Pass
		10	LCH	RB50#0	8.98	9.86	Pass
			MCH	RB50#0	8.99	9.86	Pass
			HCH	RB50#0	9.00	9.95	Pass



Part II - Test Plots

4.1 For LTE

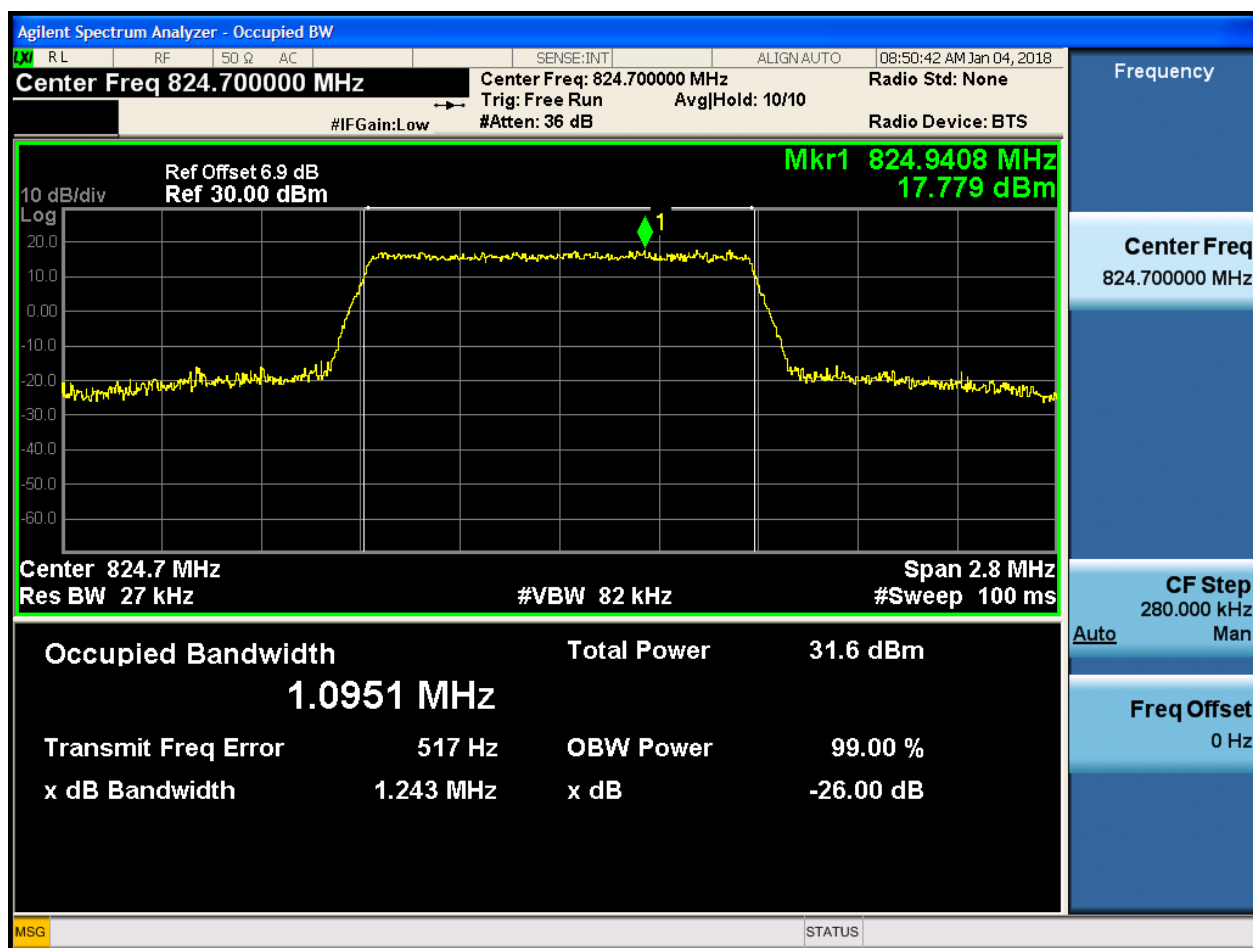
4.1.1 Test Band = BAND5

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

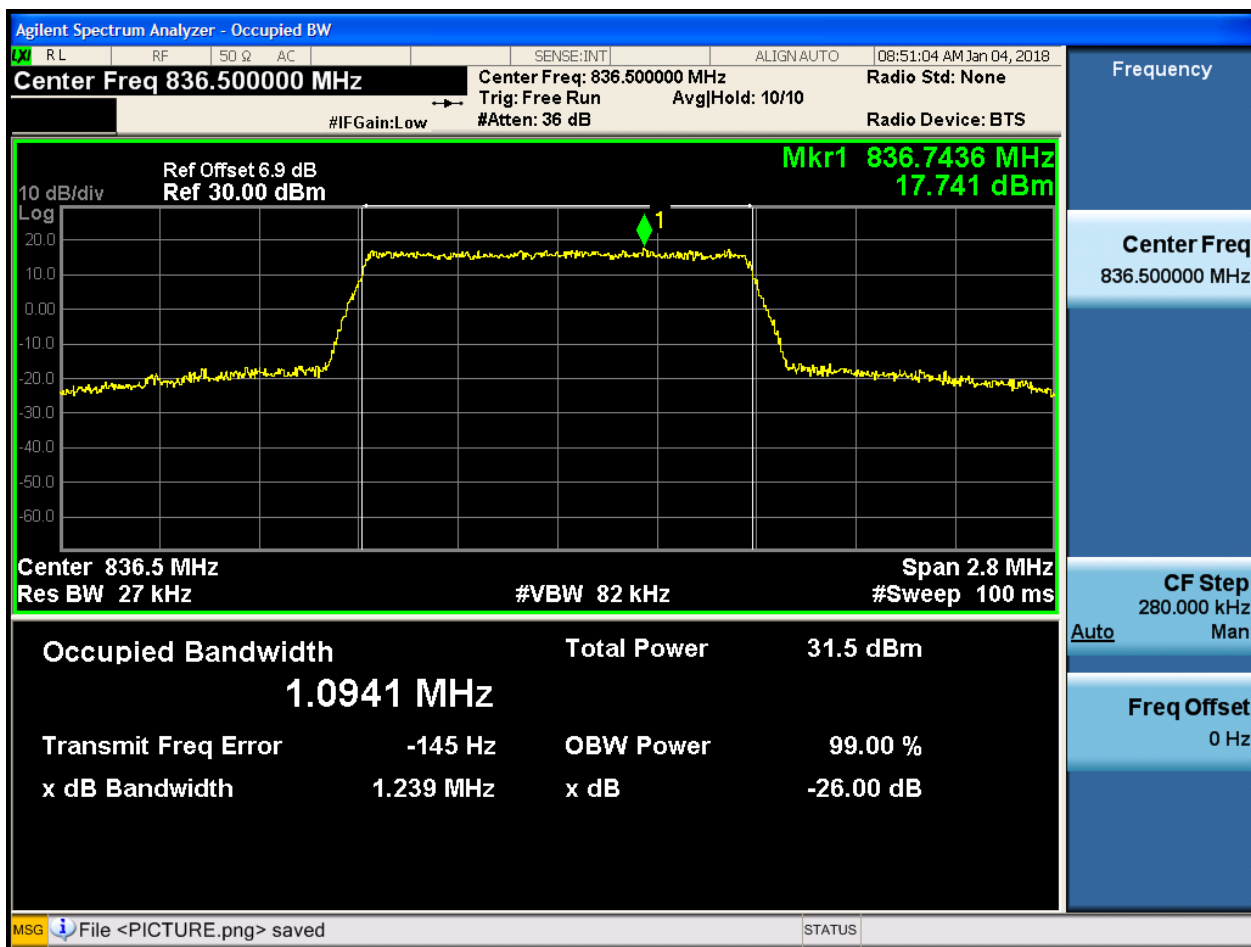
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

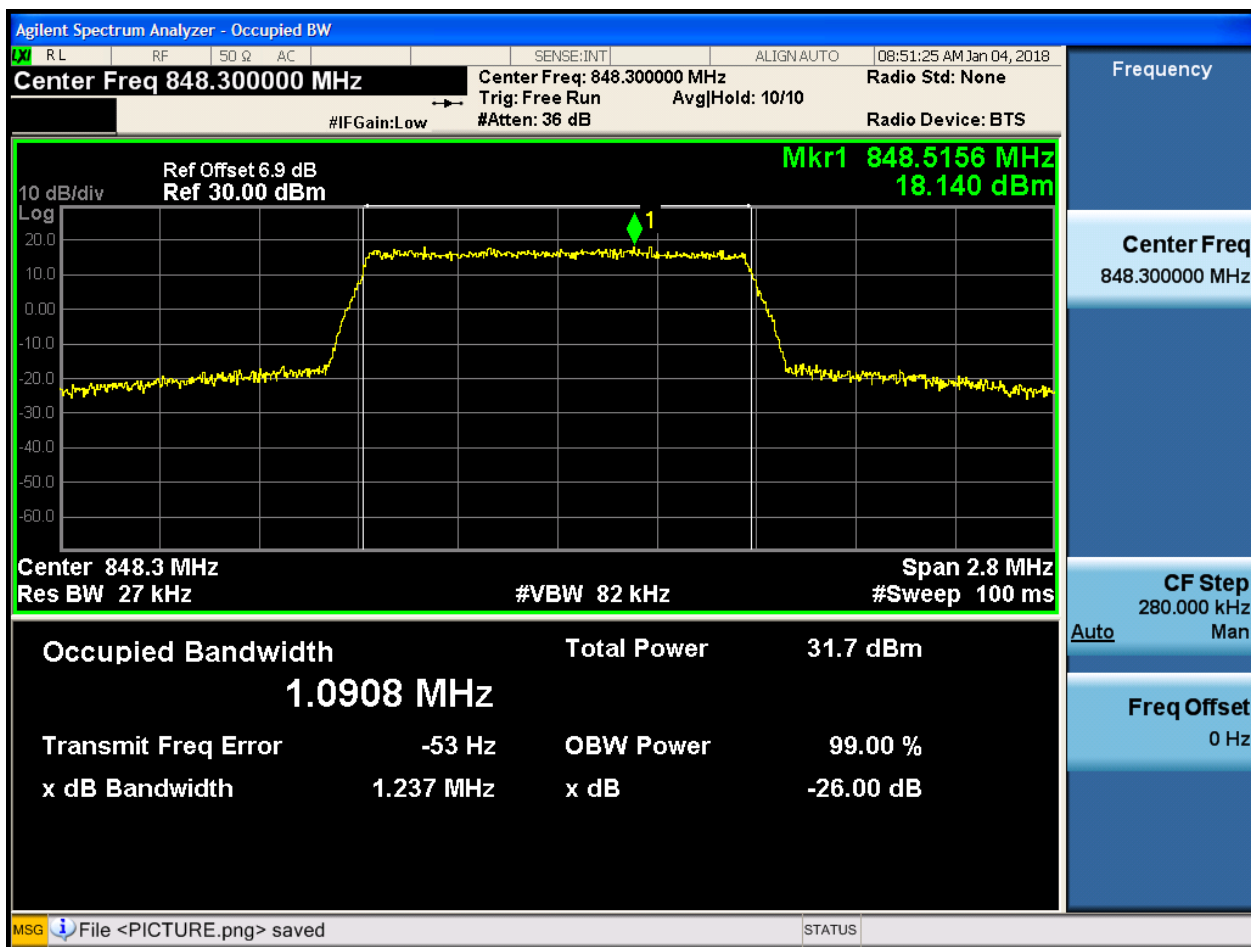
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

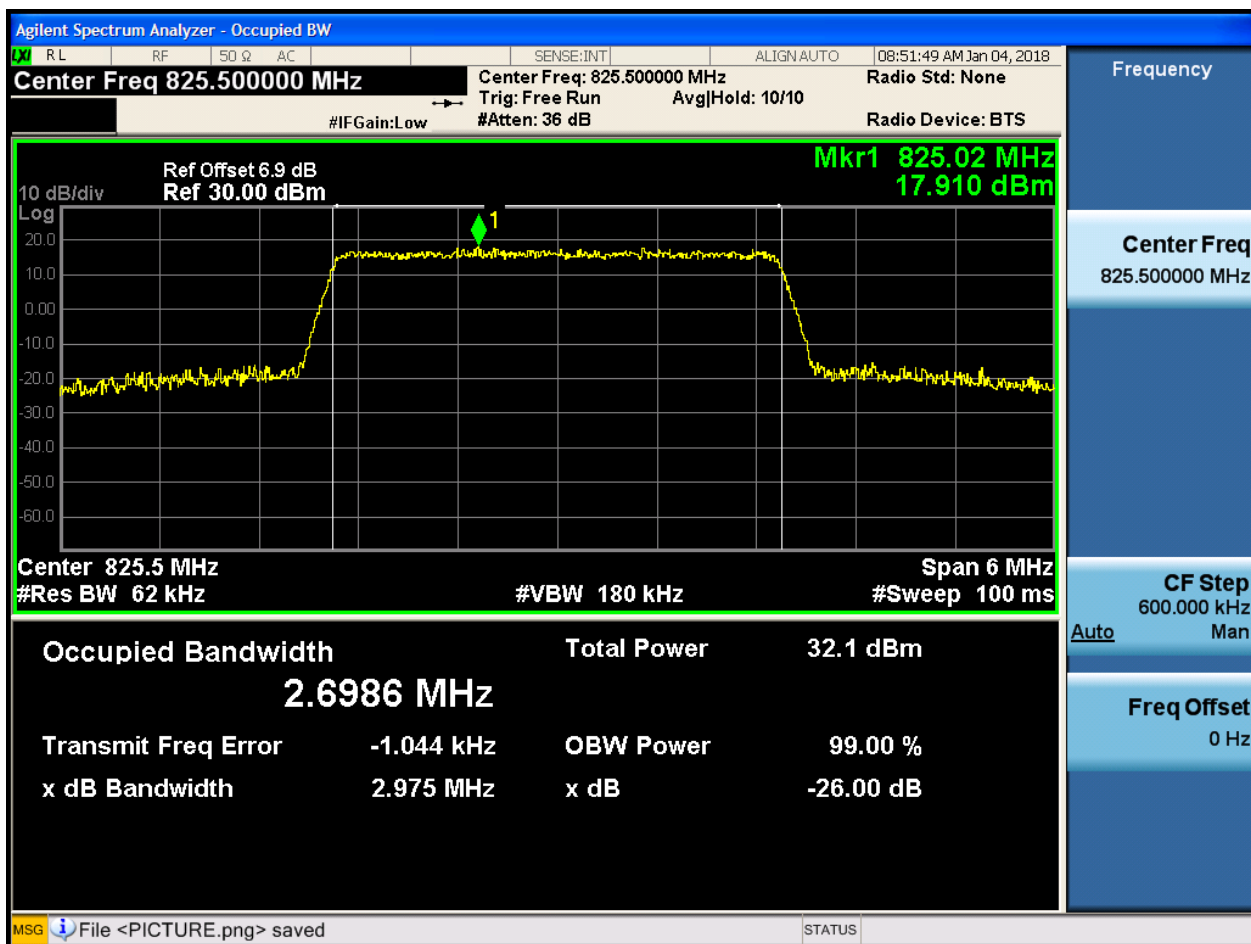




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

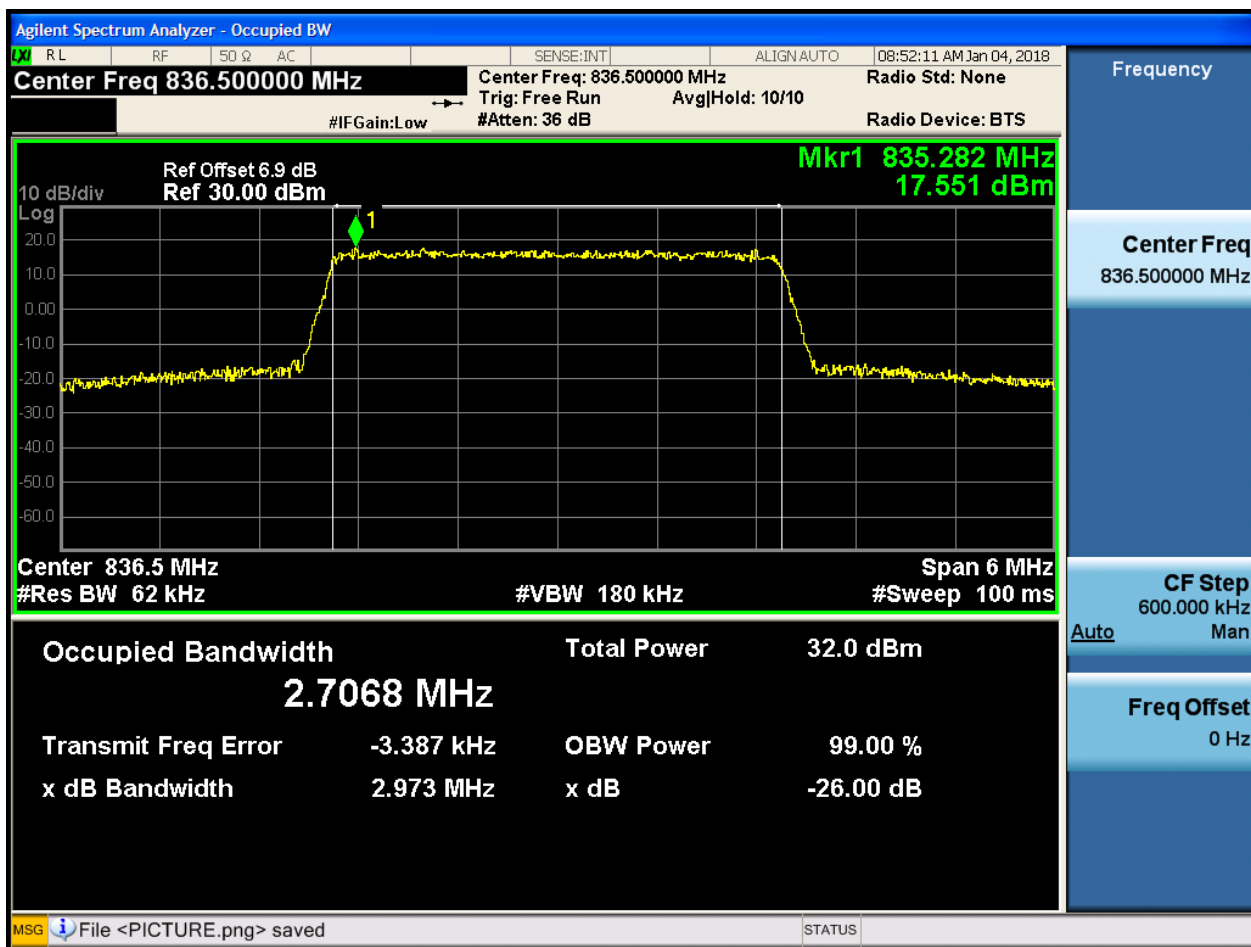
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

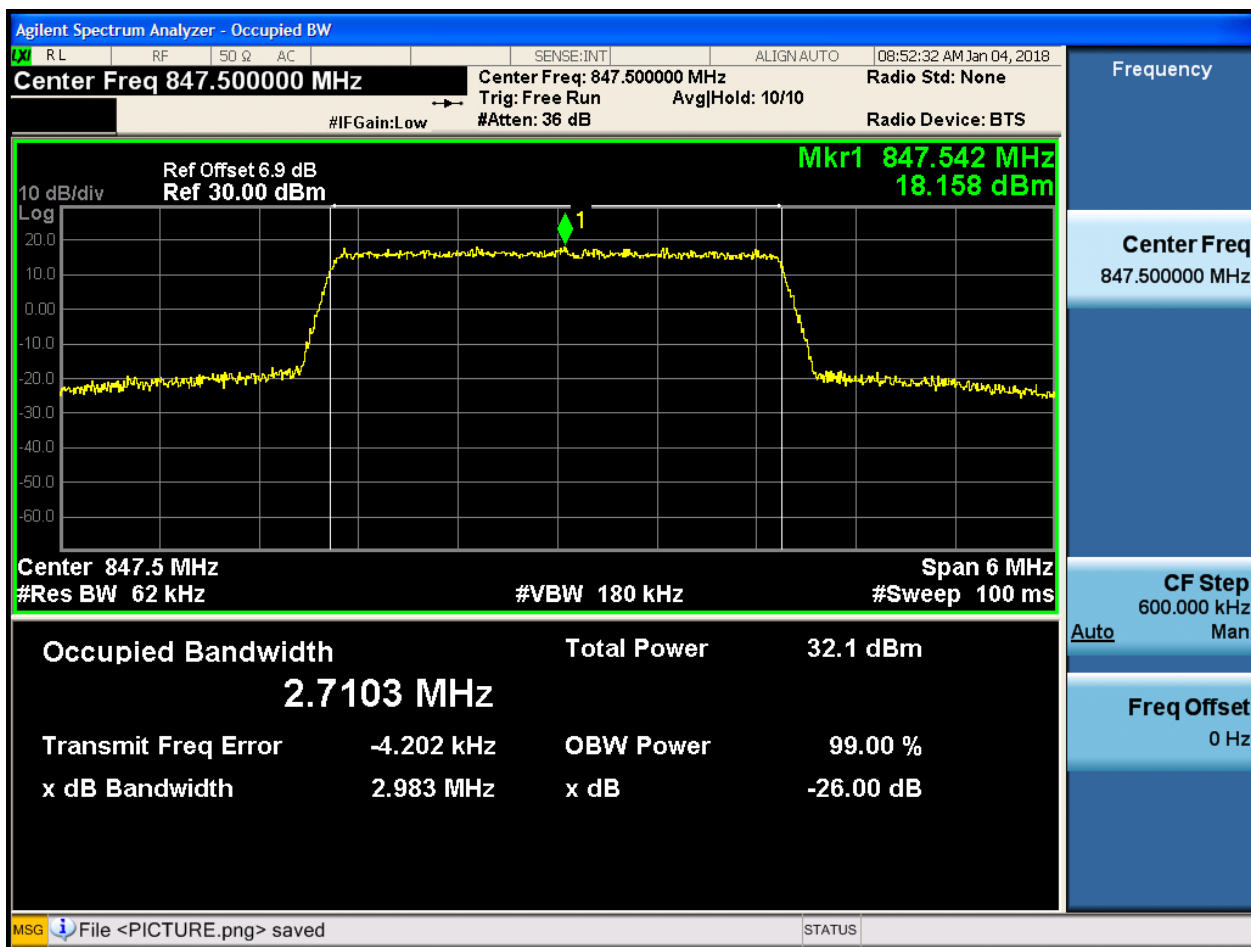
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

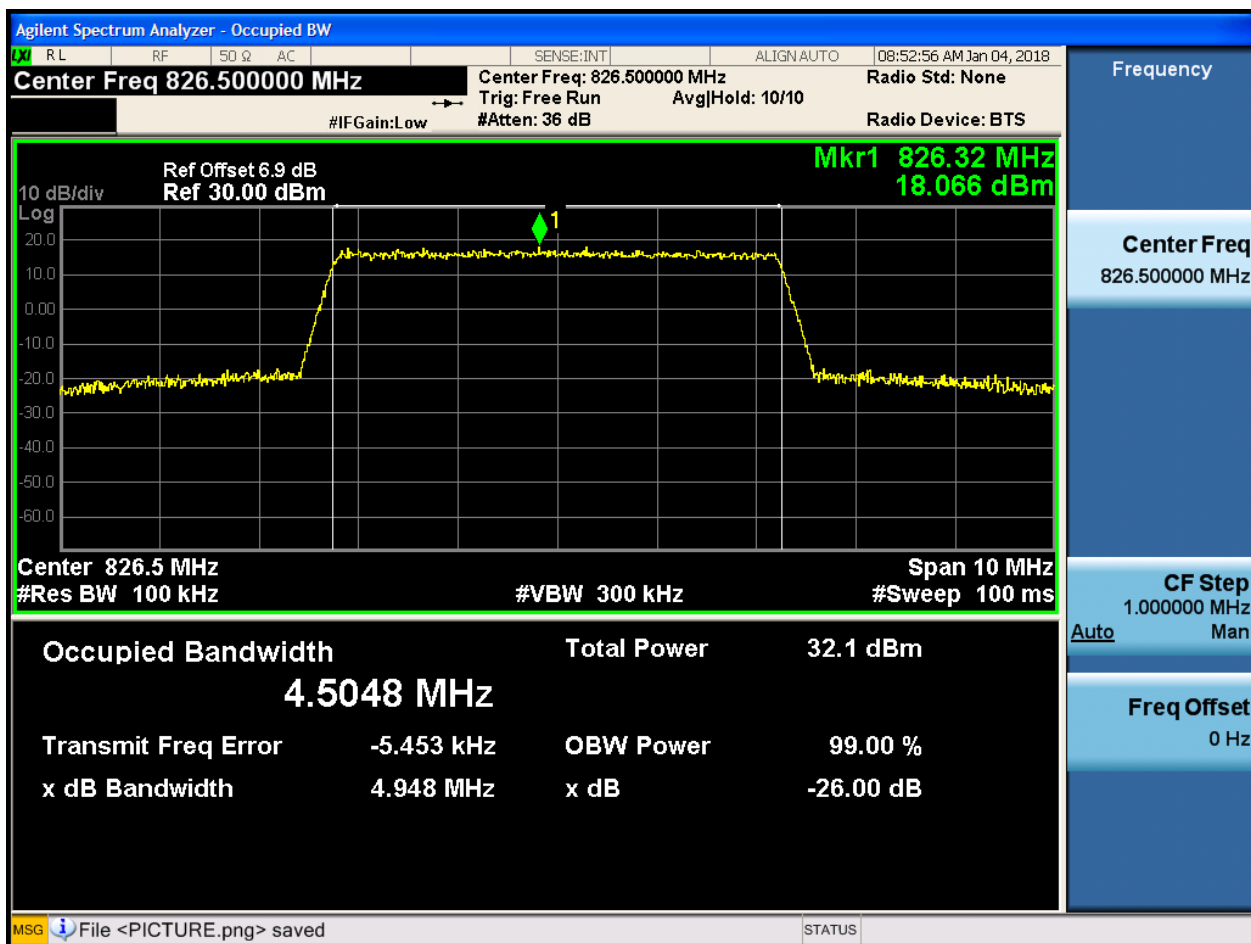




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

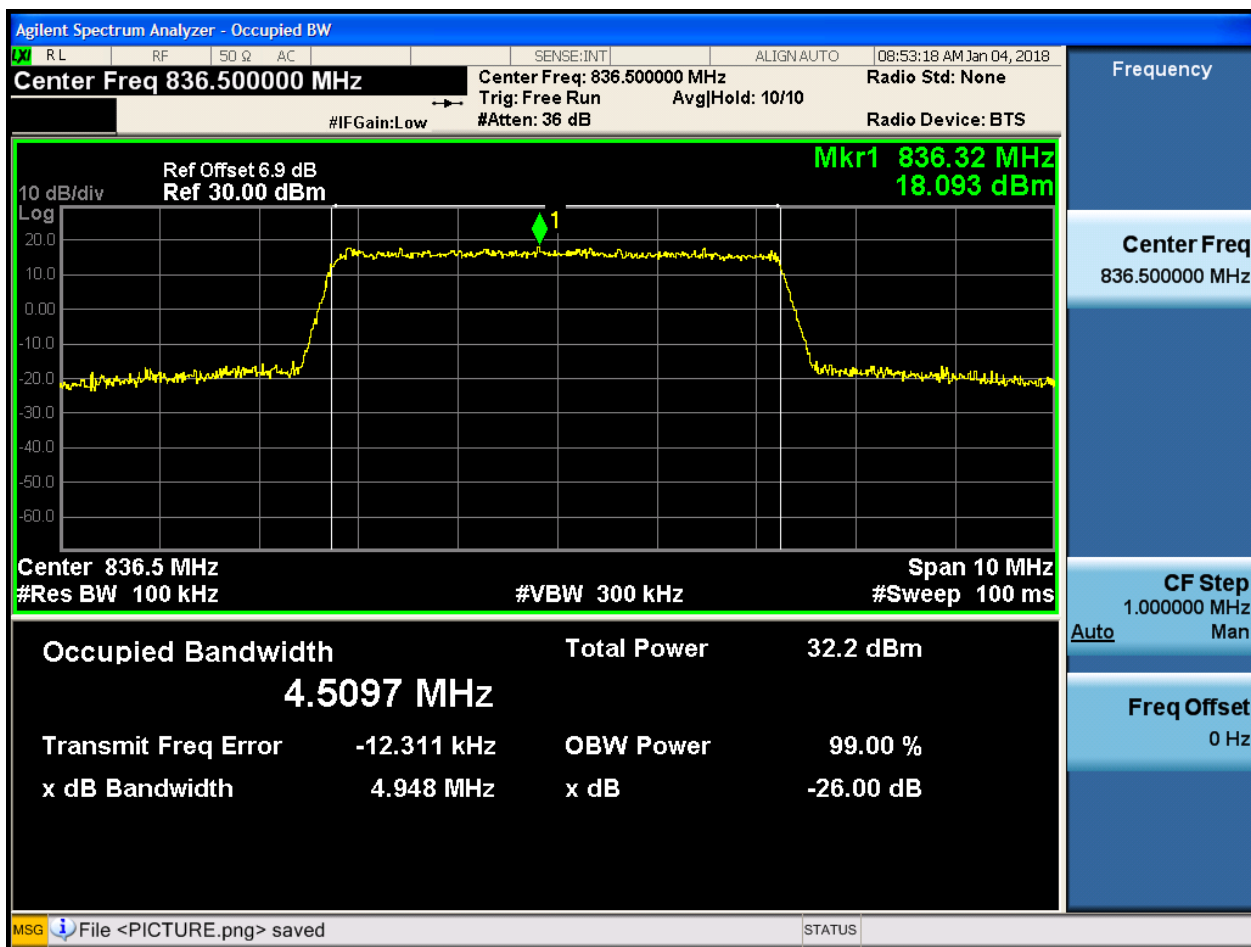
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

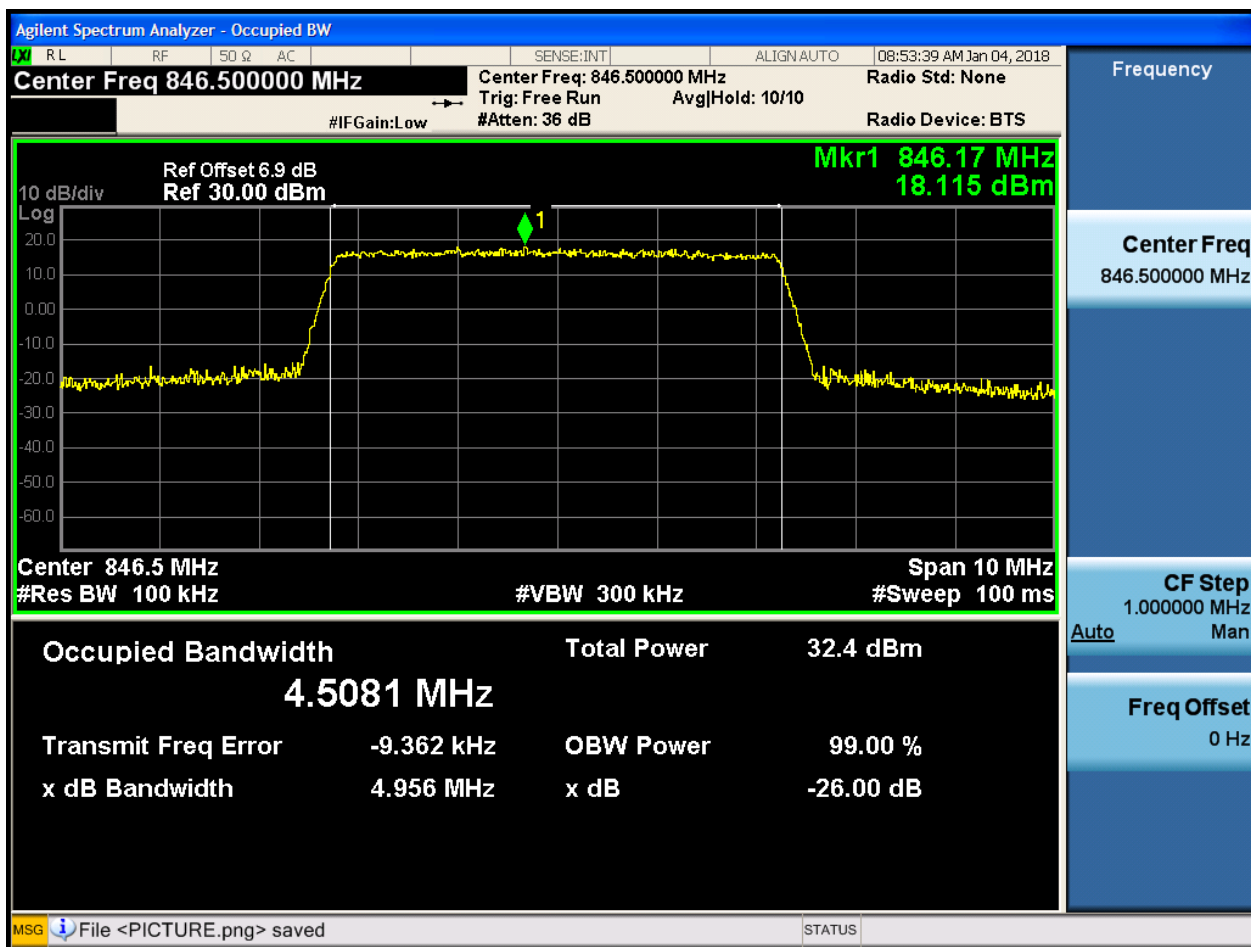
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

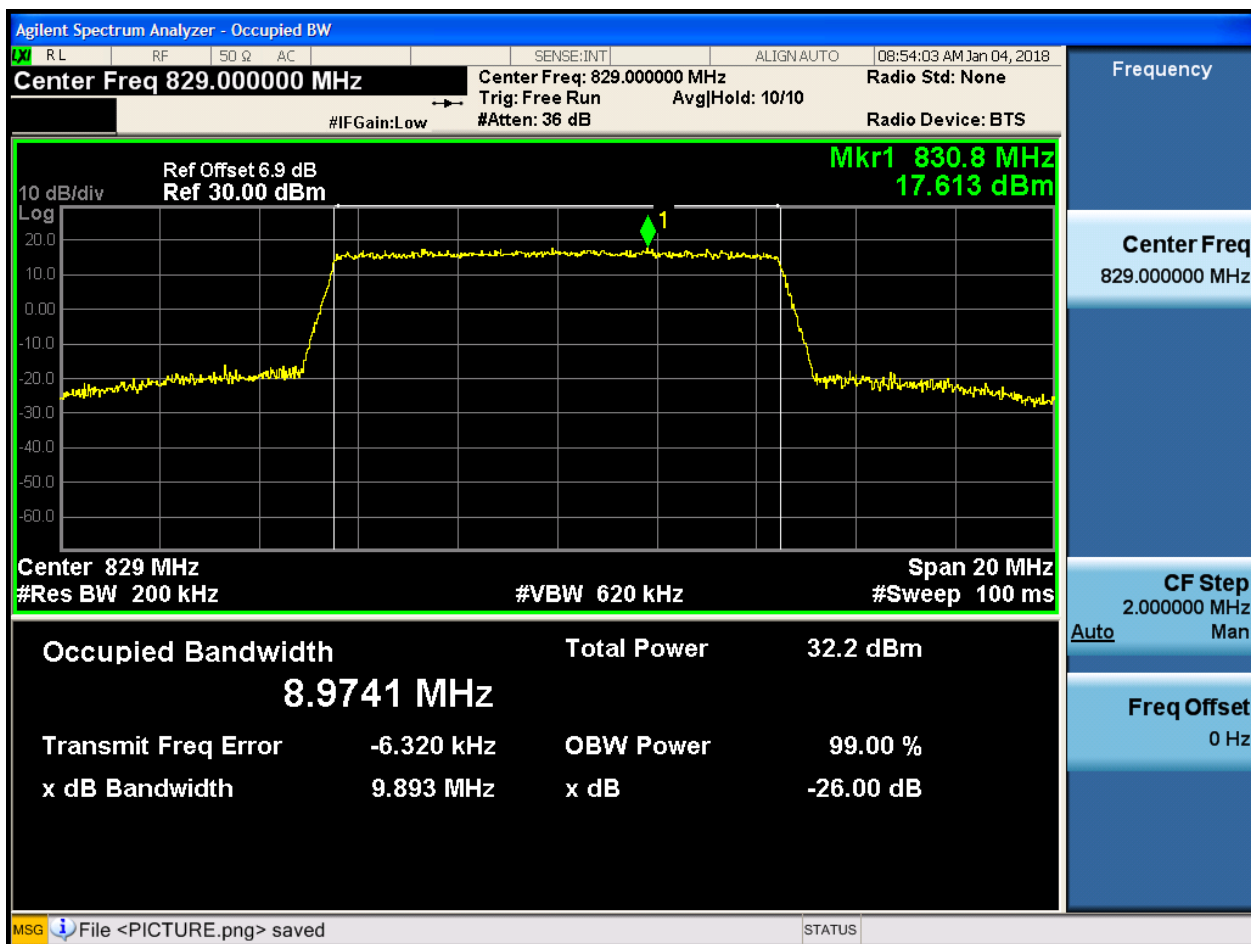




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

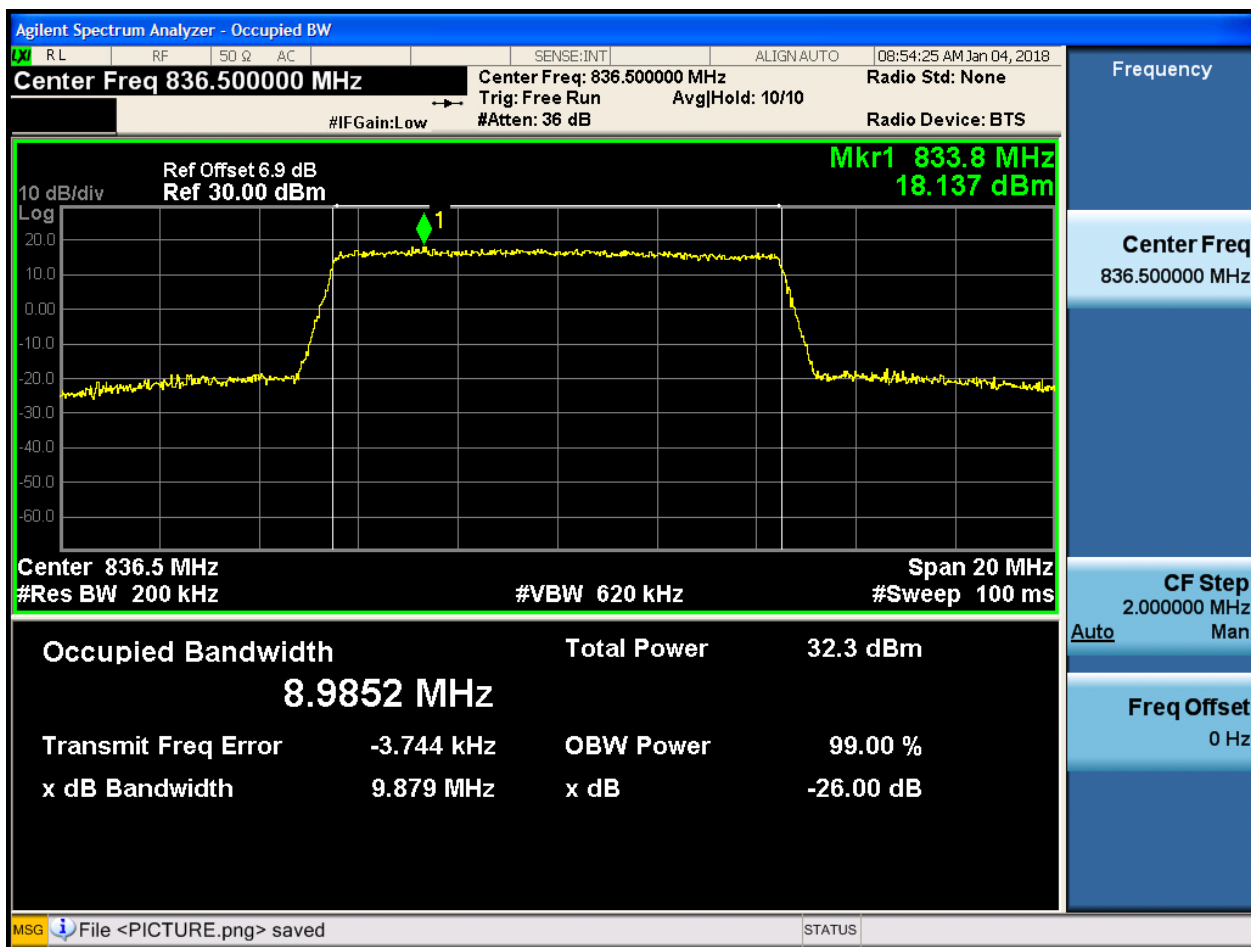
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

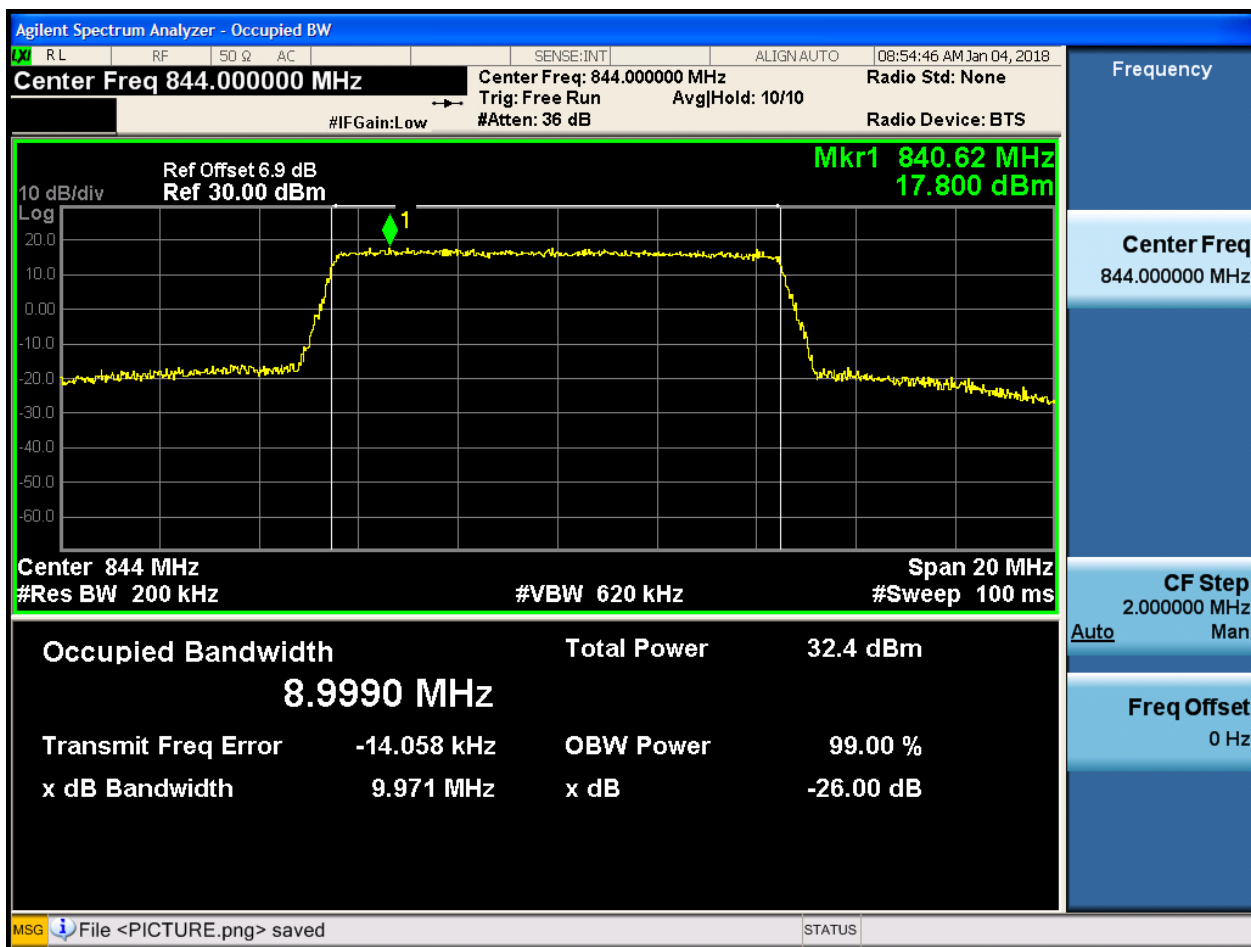
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



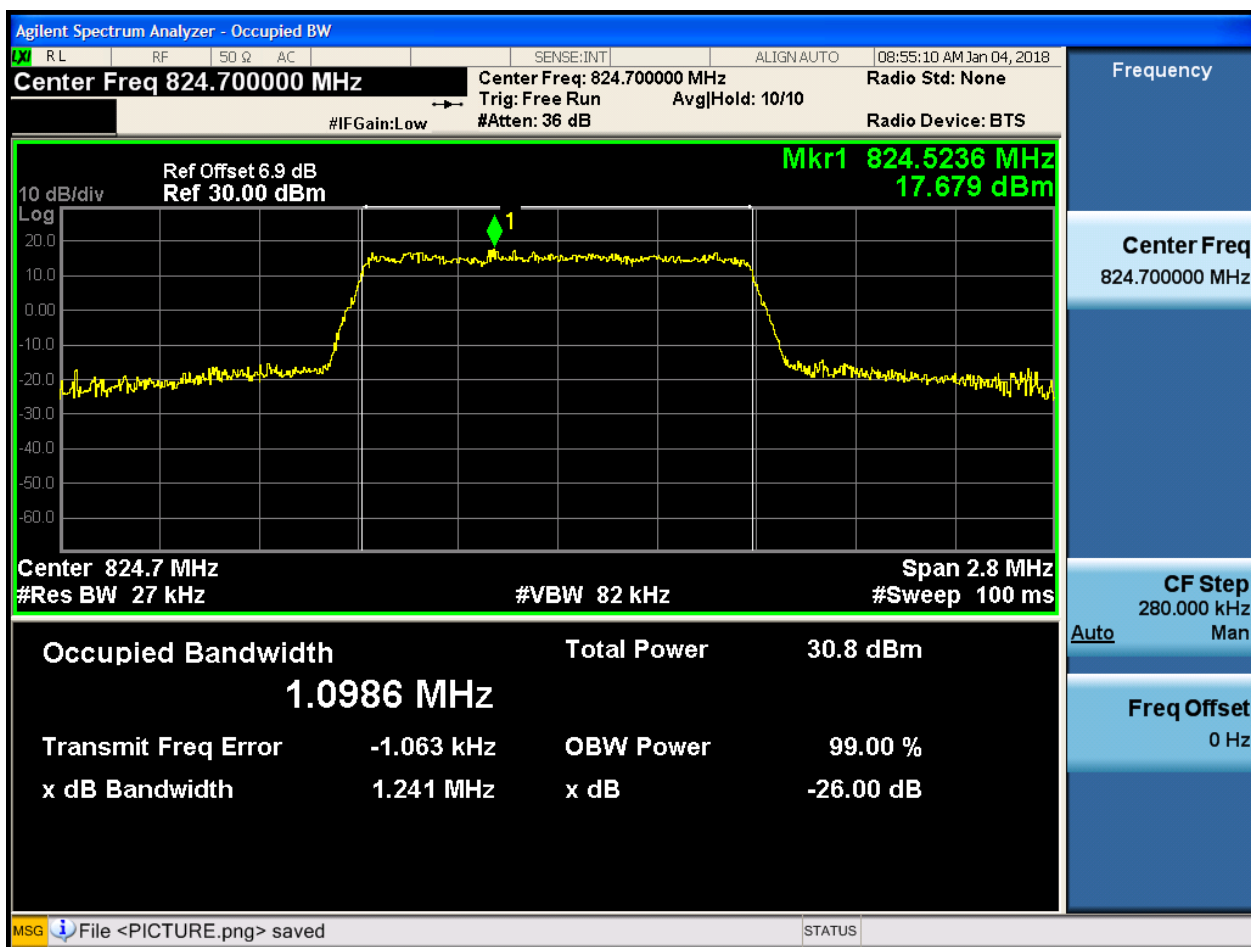


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

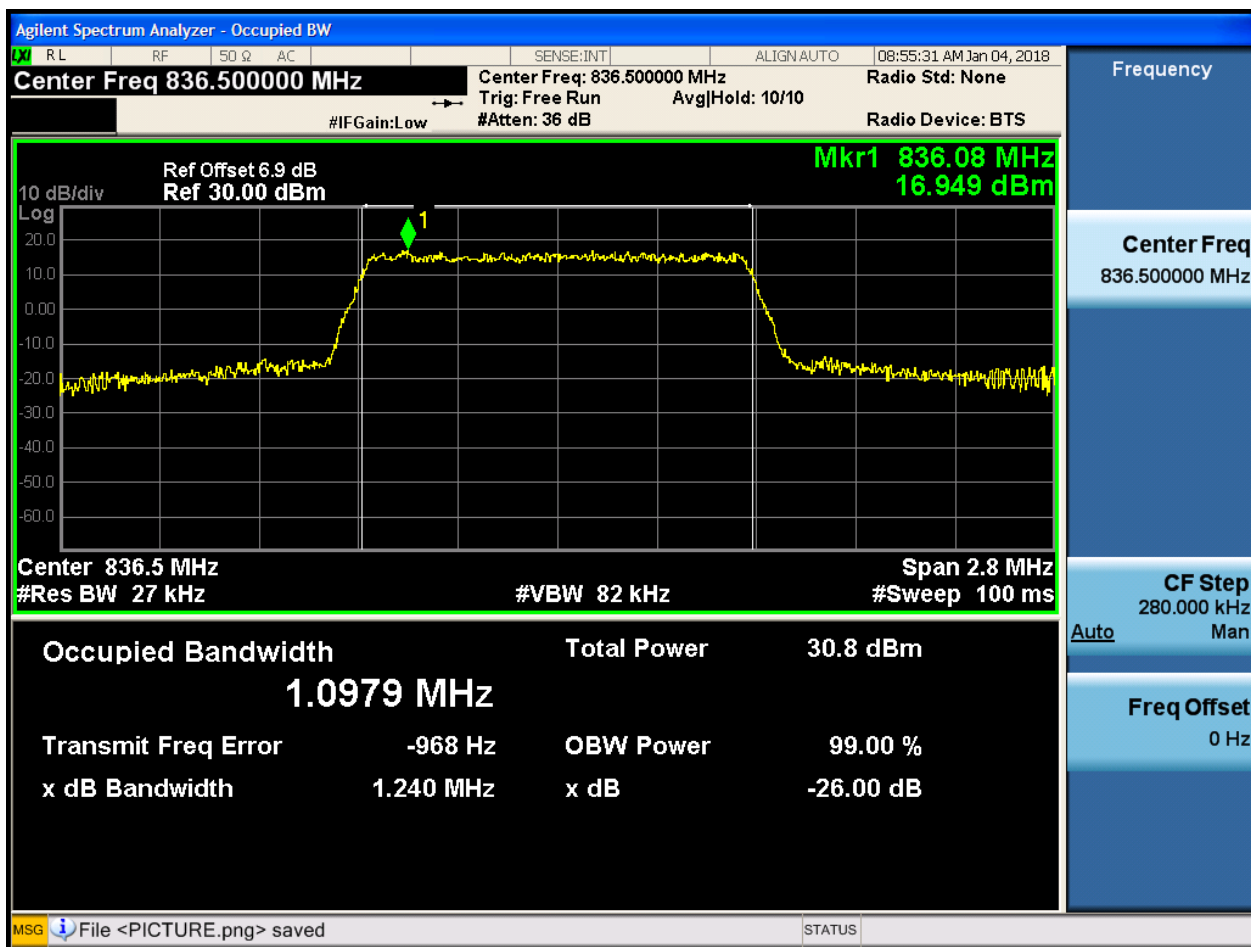
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

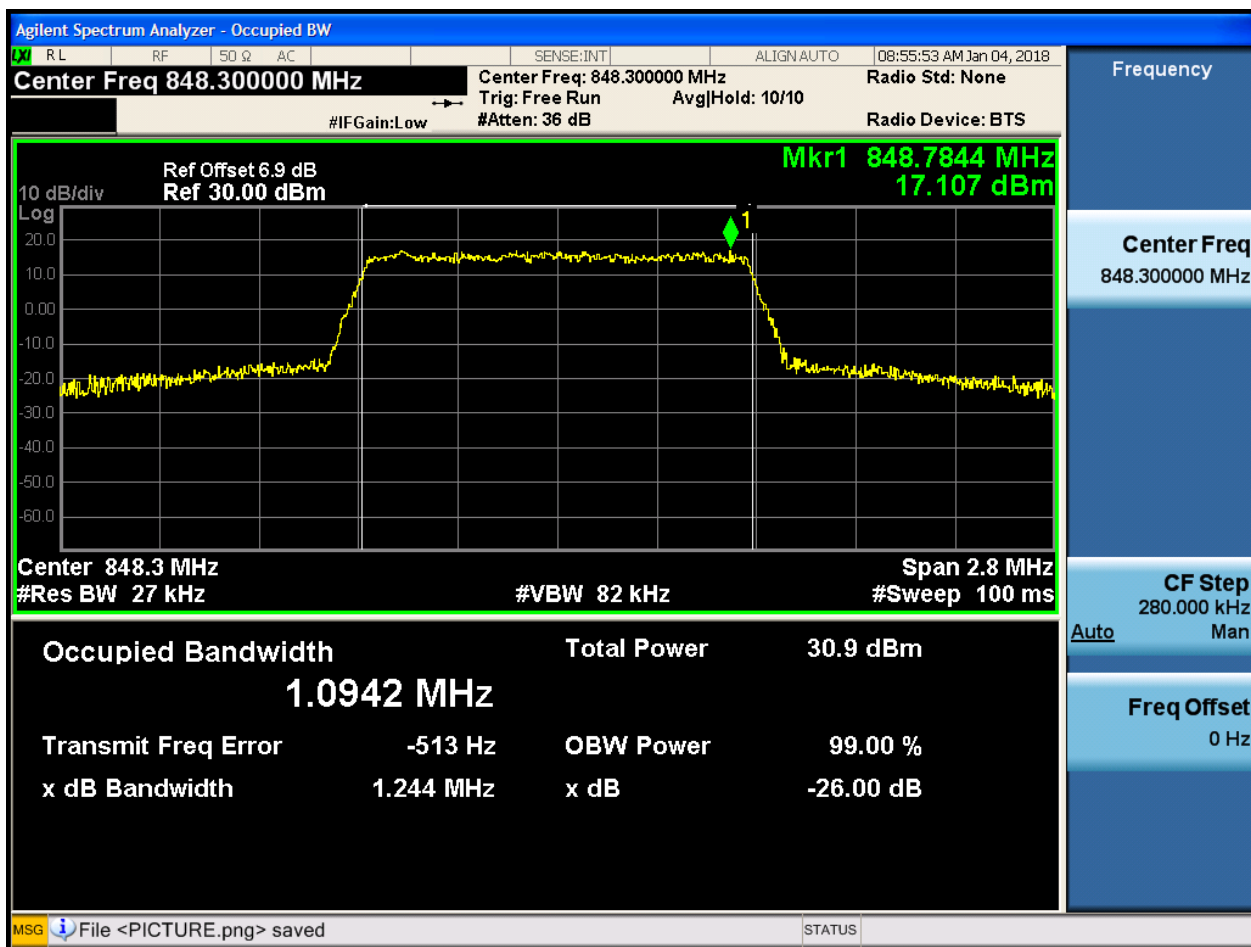
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

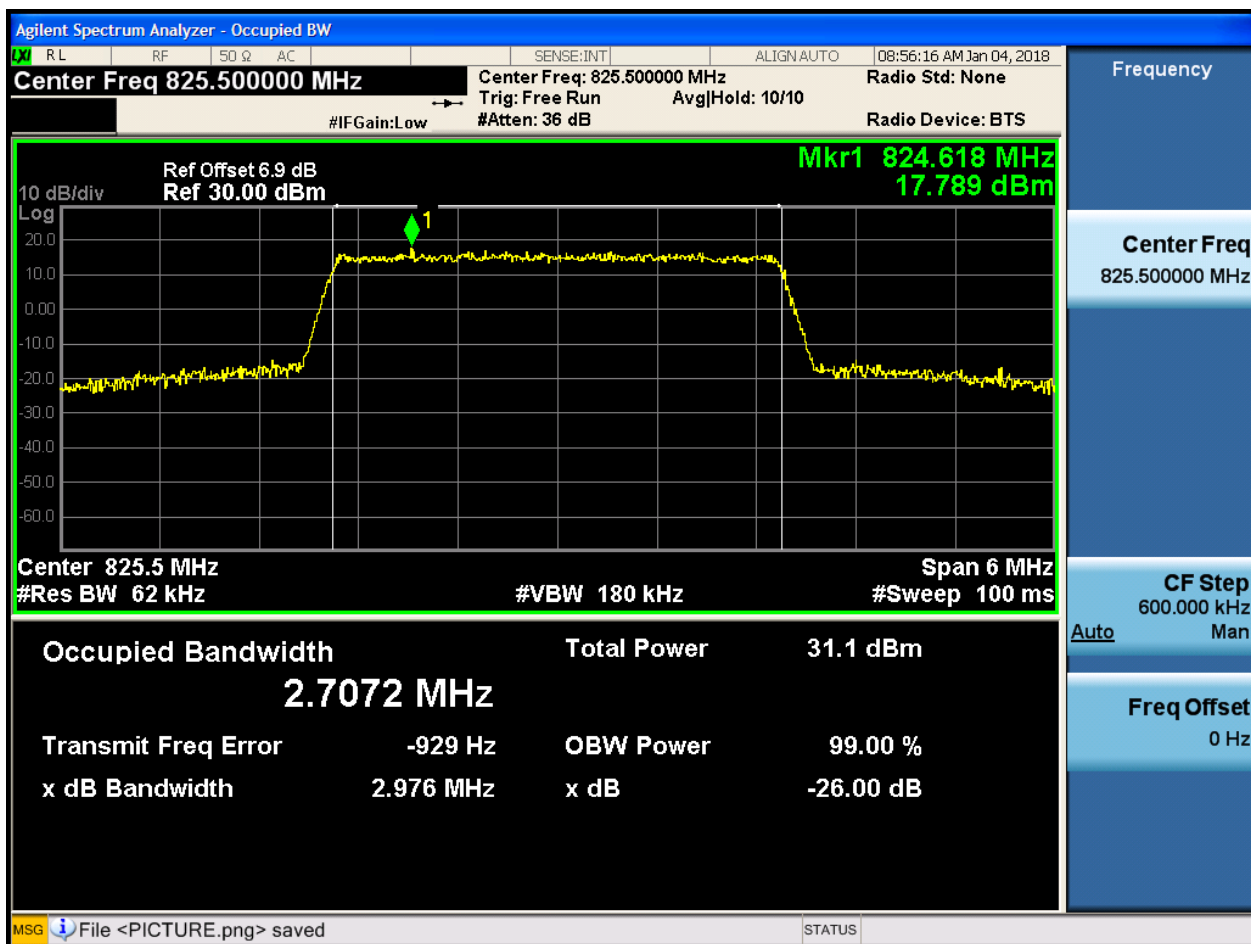




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

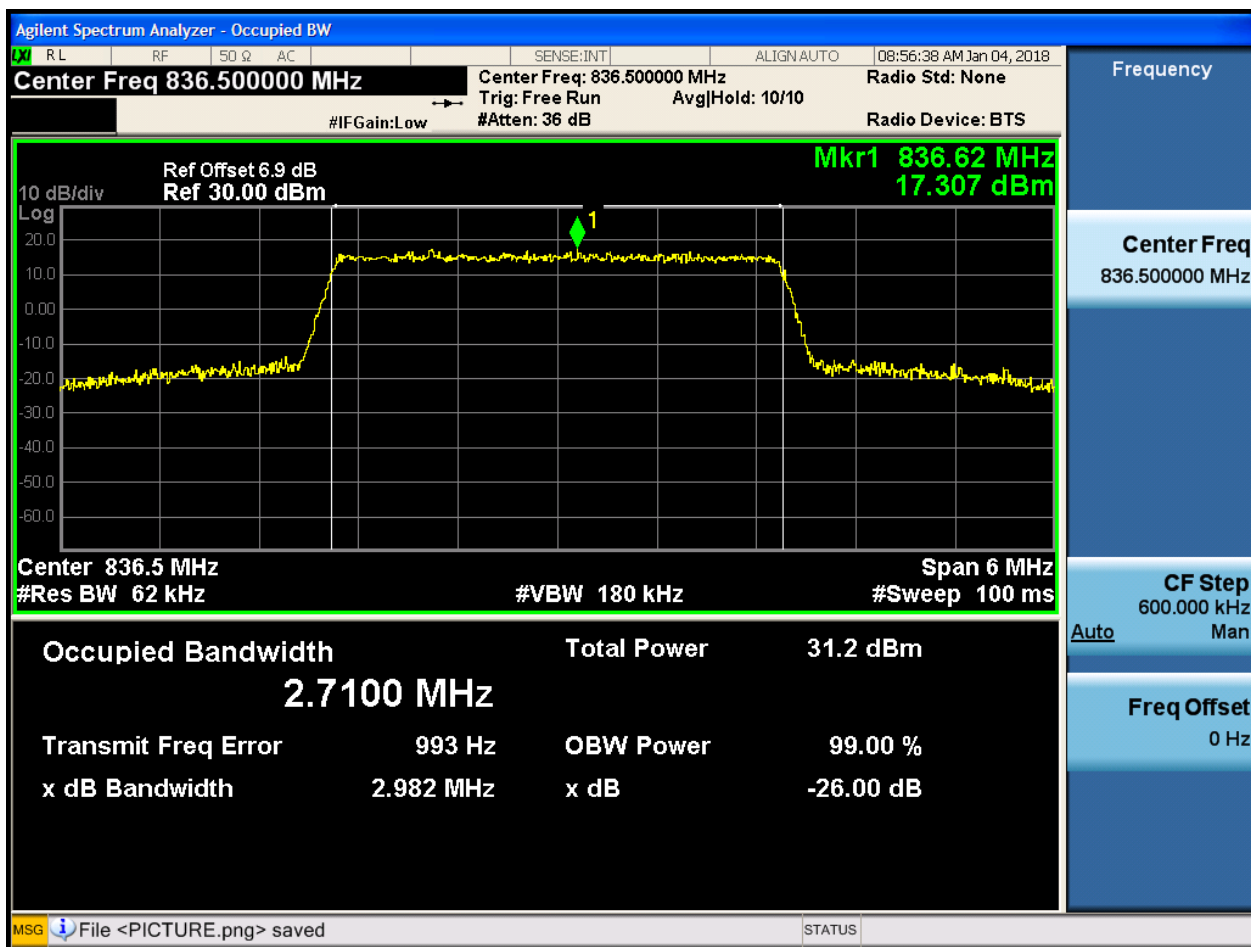
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

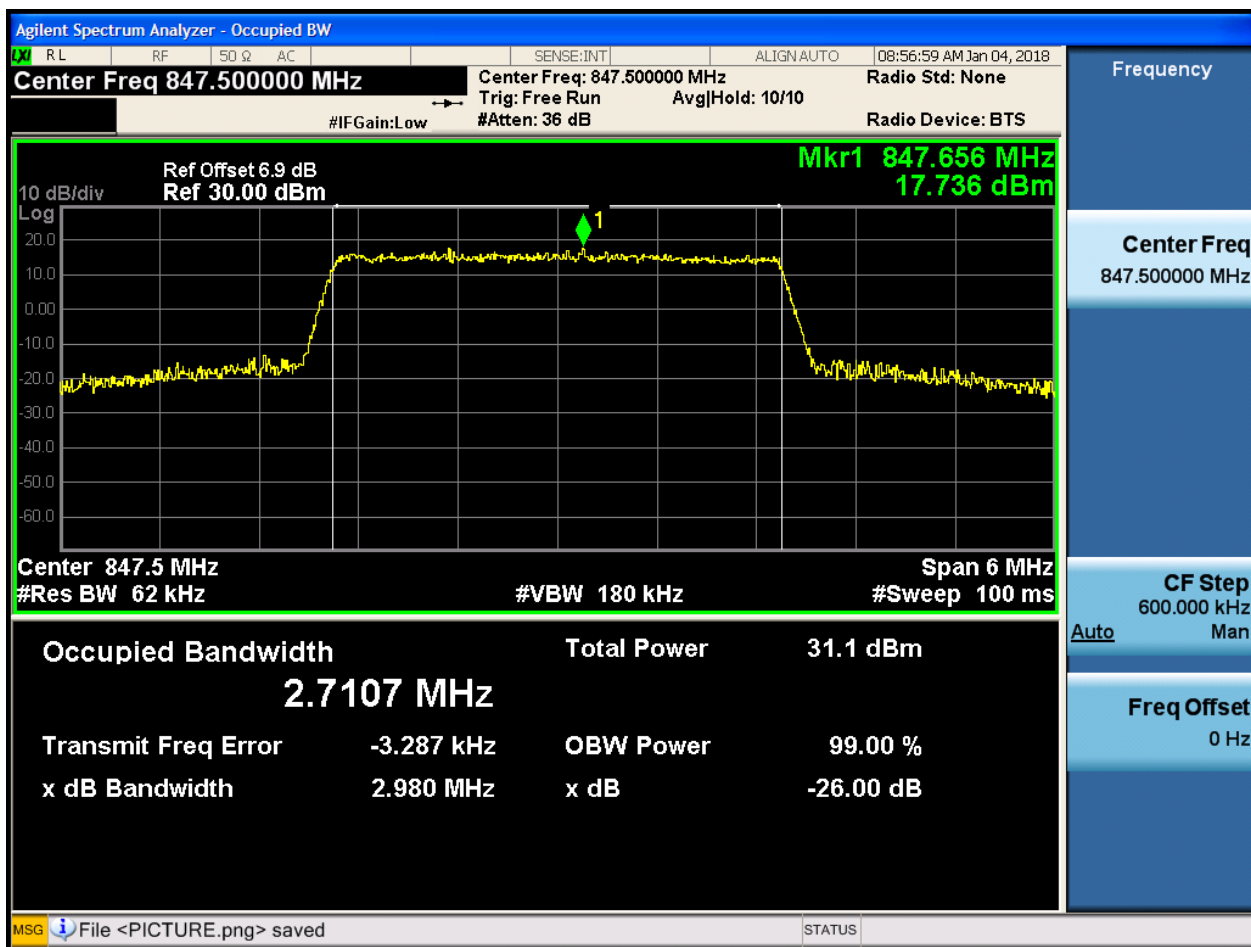
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

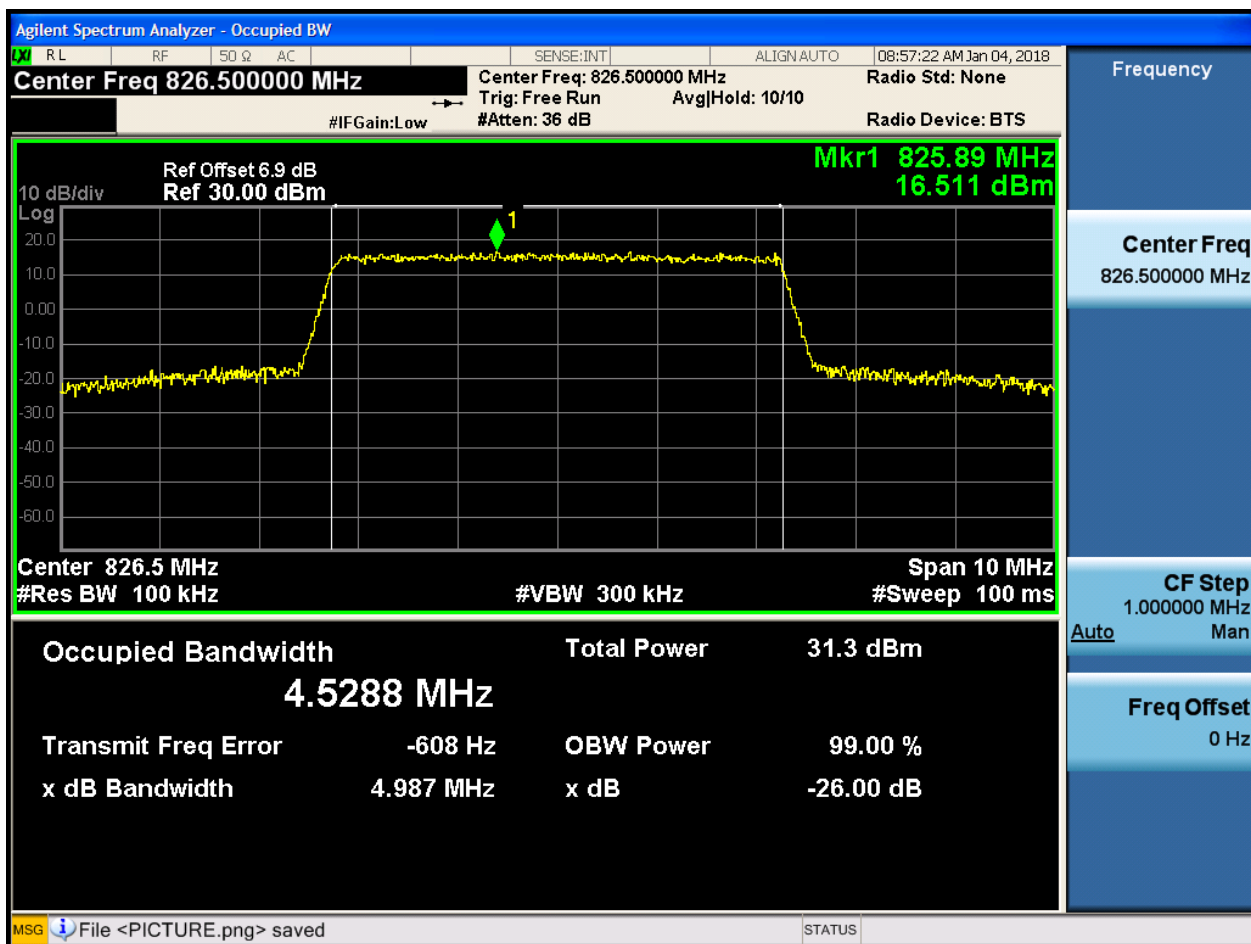




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

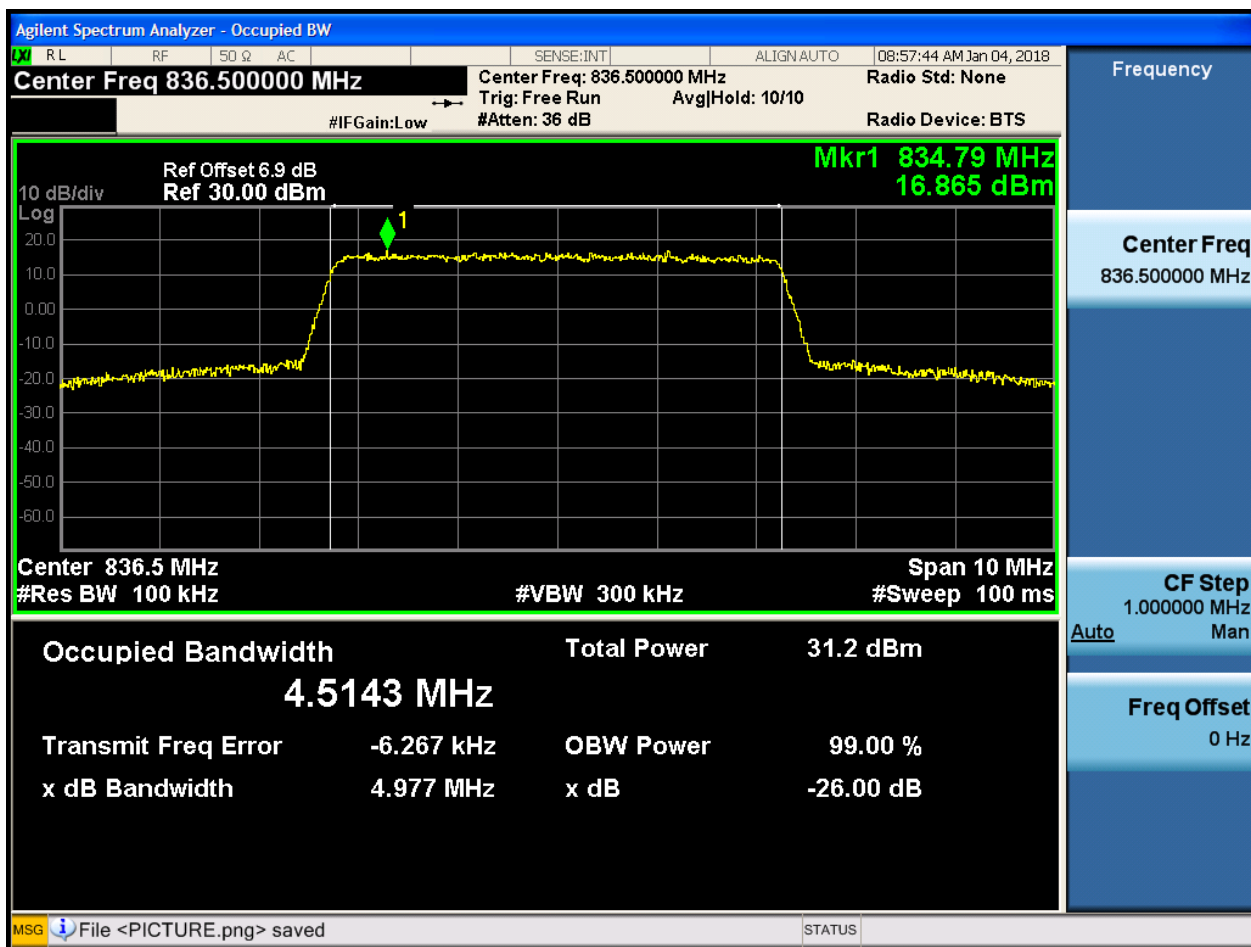
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

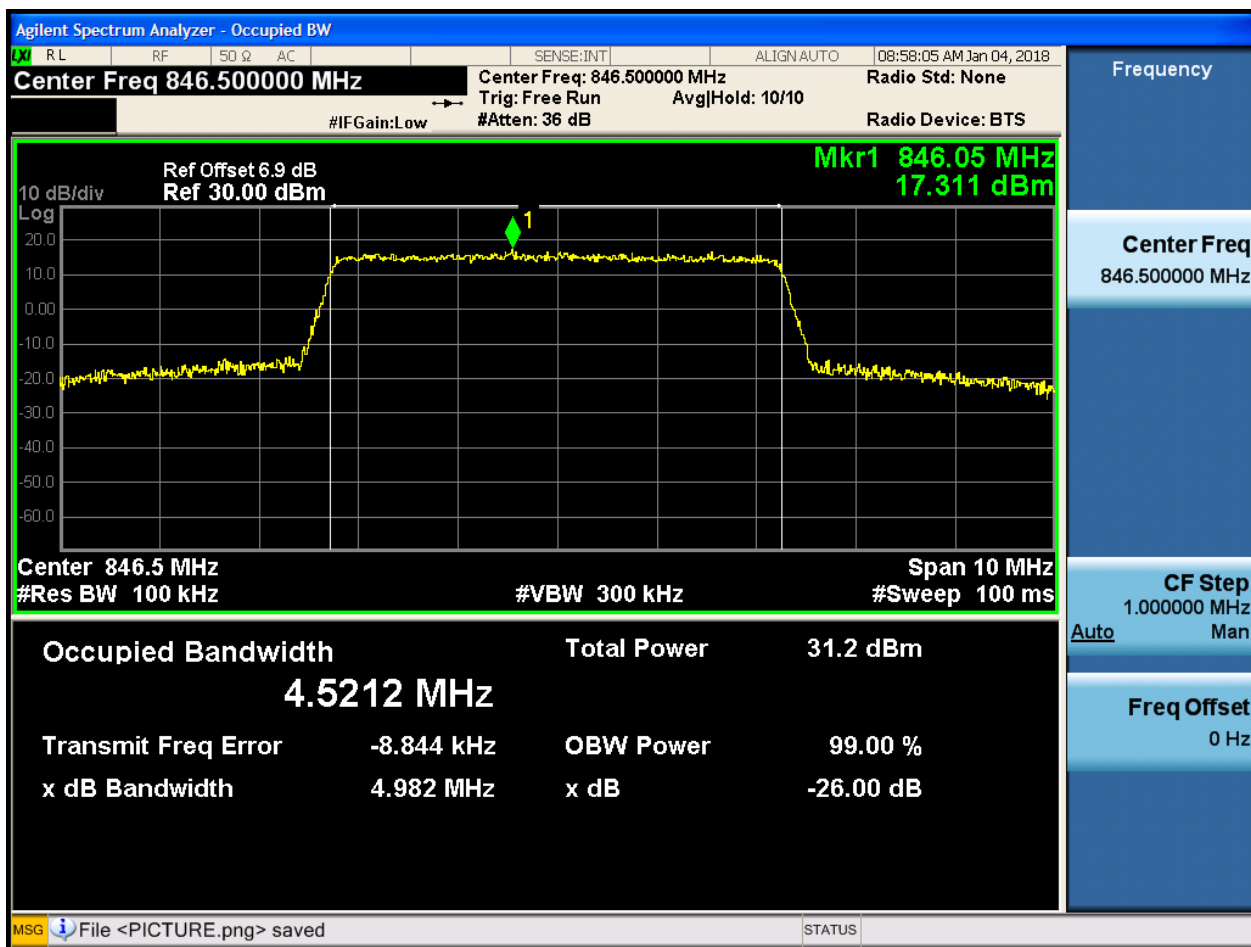
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

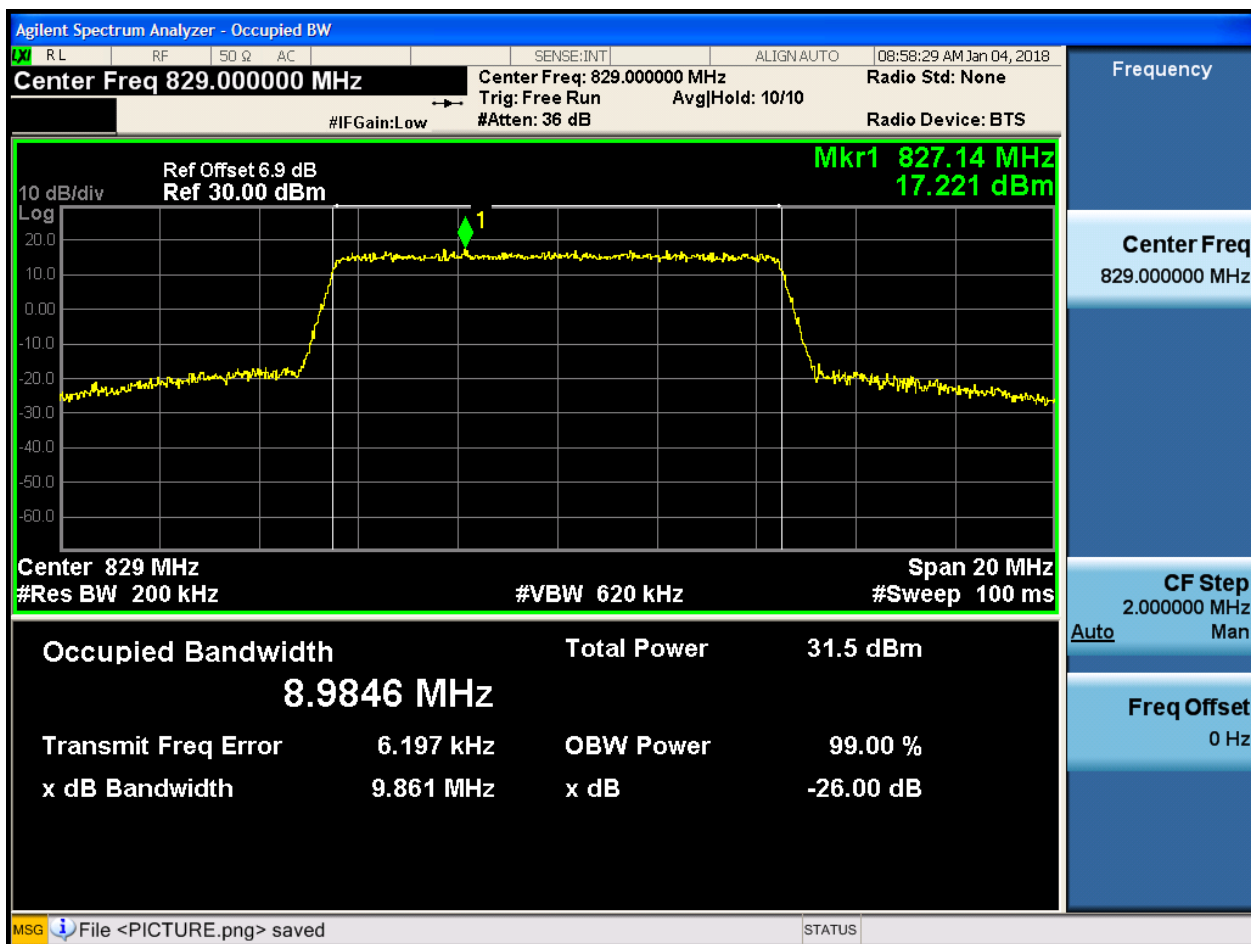




4.1.1.2.4 Test Bandwidth = 10

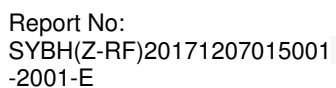
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0





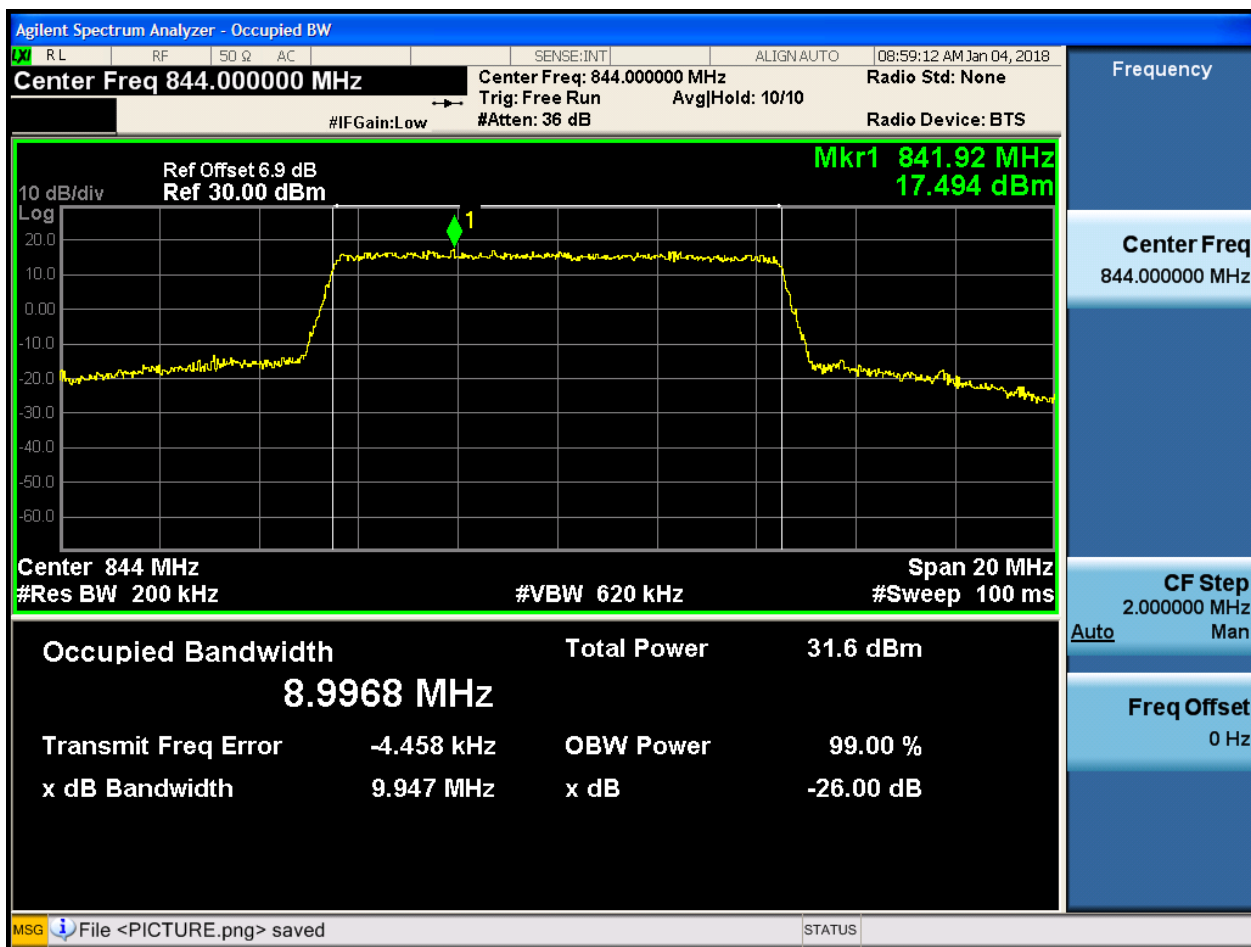
4.1.1.2.4.2.1 Test RB = RB50#0





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

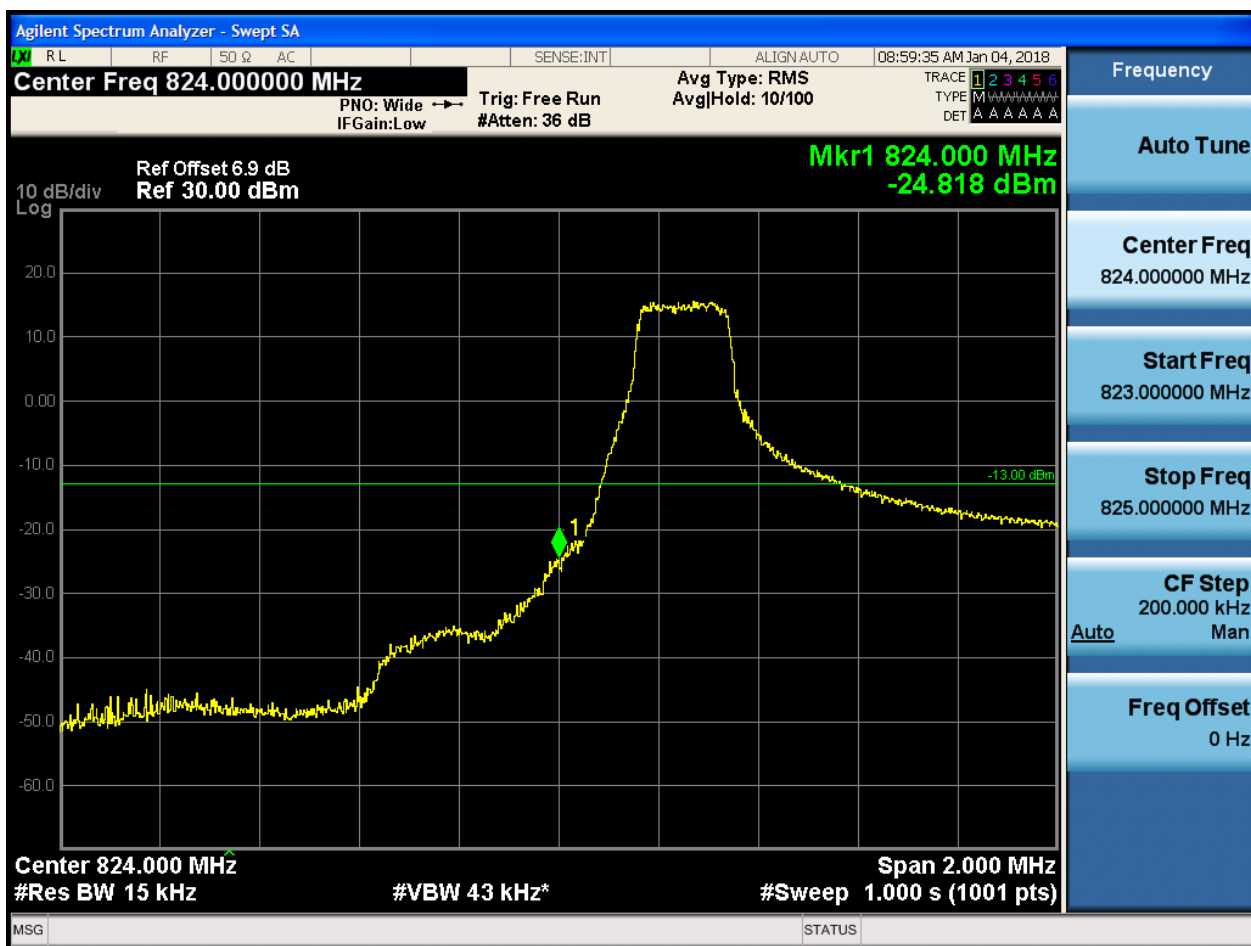
5.1.1 Test Band = BAND5

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





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz
PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: RMS
Avg/Hold: 10/100

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 823.300 MHz
-32.034 dBm

Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 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 <u>Auto</u> Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:00:08 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-30.444 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 15 kHz

#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:00:25 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide 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 6.9 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-29.416 dBm

10 dB/div
Log

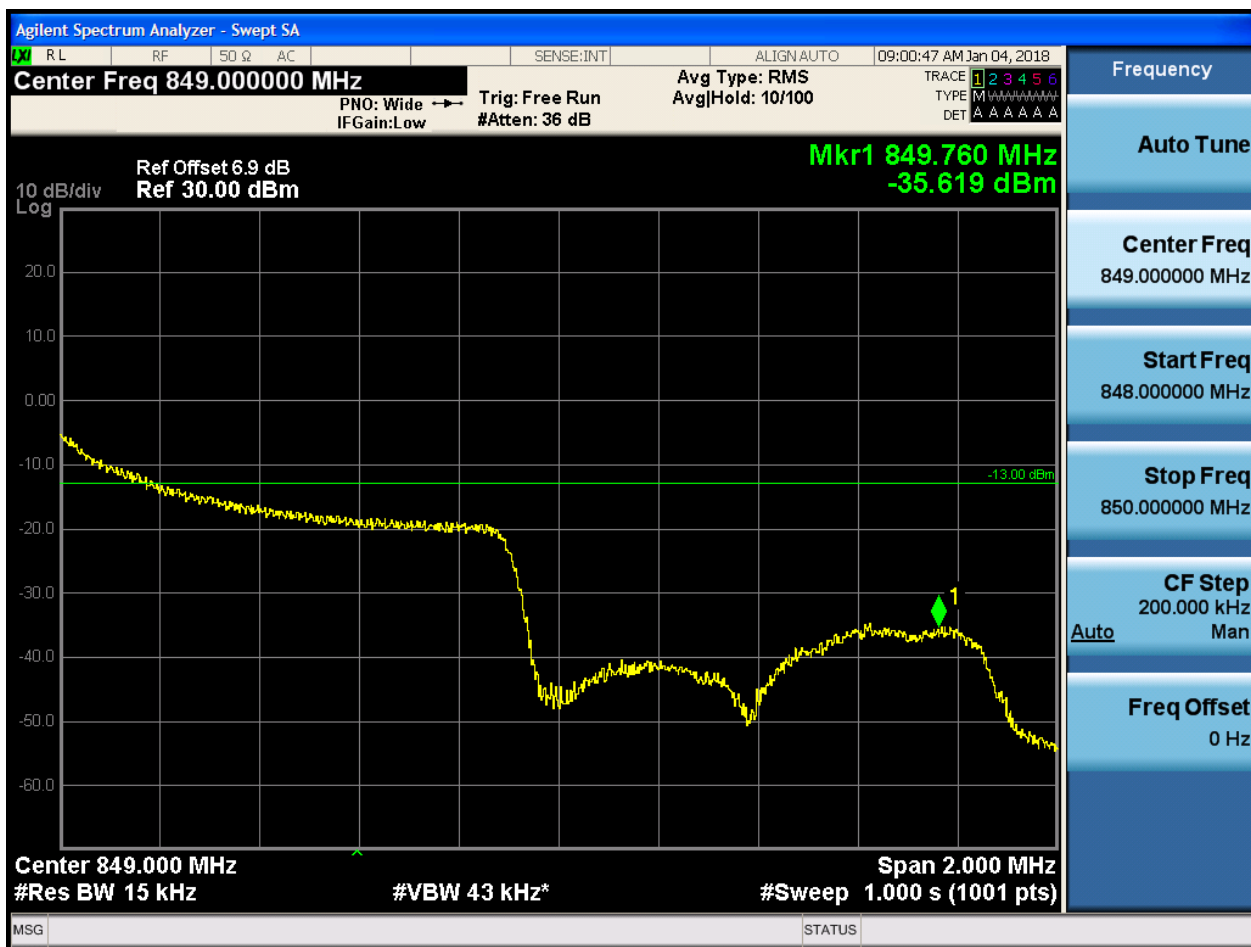
Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



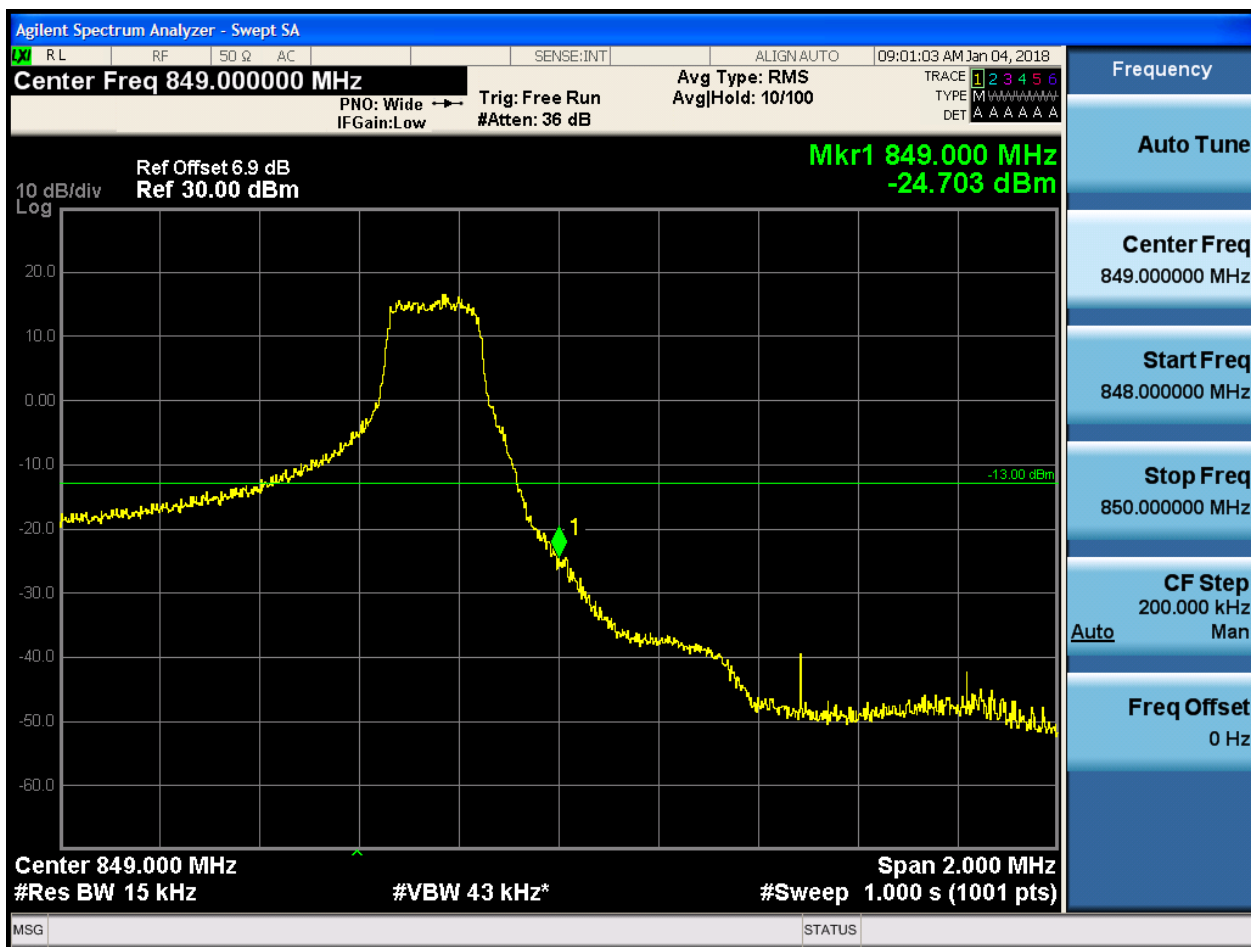
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#5



[illegible]



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:01:37 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#Atten: 36 dB

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

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 849.070 MHz
-31.253 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

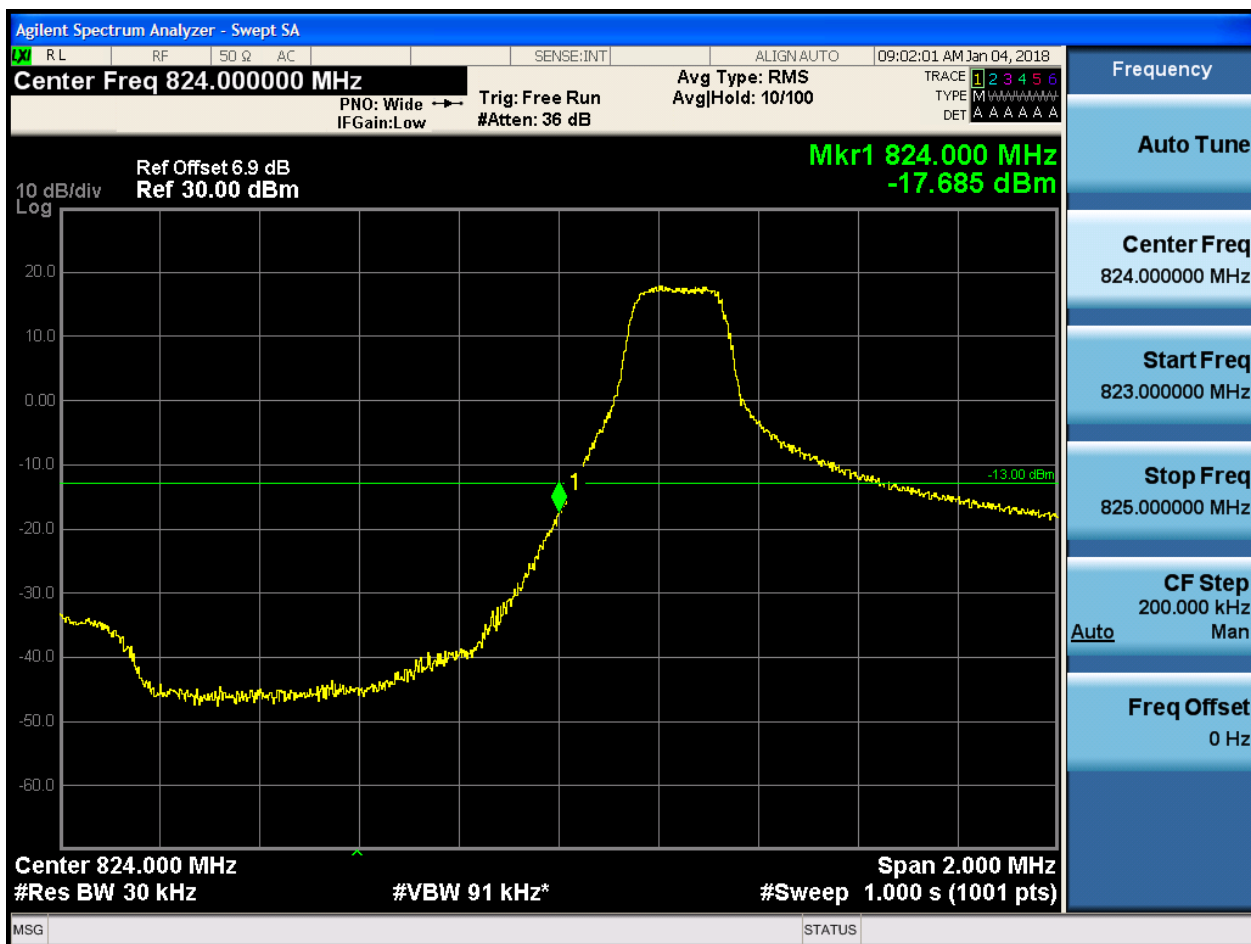
Freq Offset
0 Hz



5.1.1.1.2 Test Bandwidth = 3

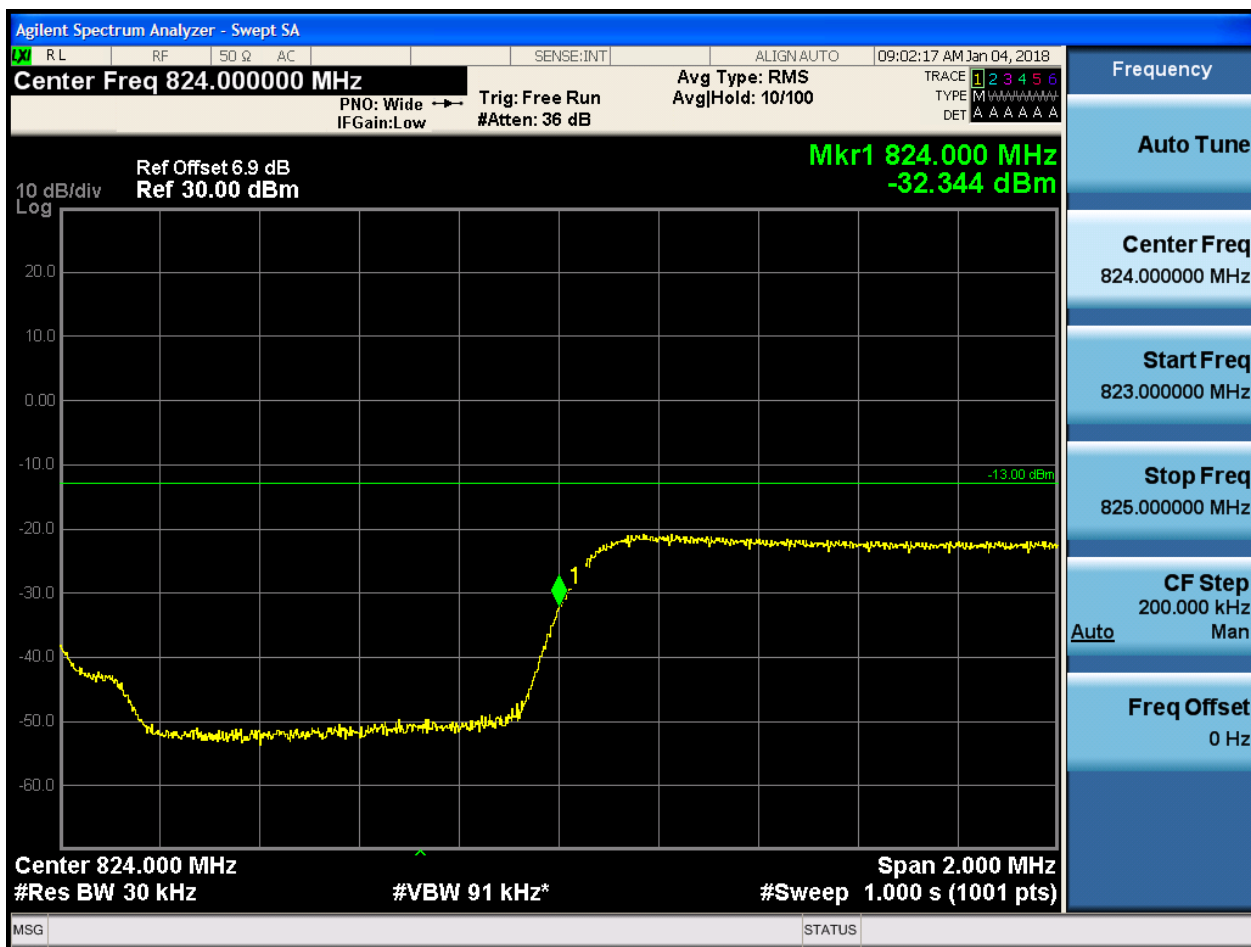
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:02:34 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-30.118 dBm

10 dB/div
Log

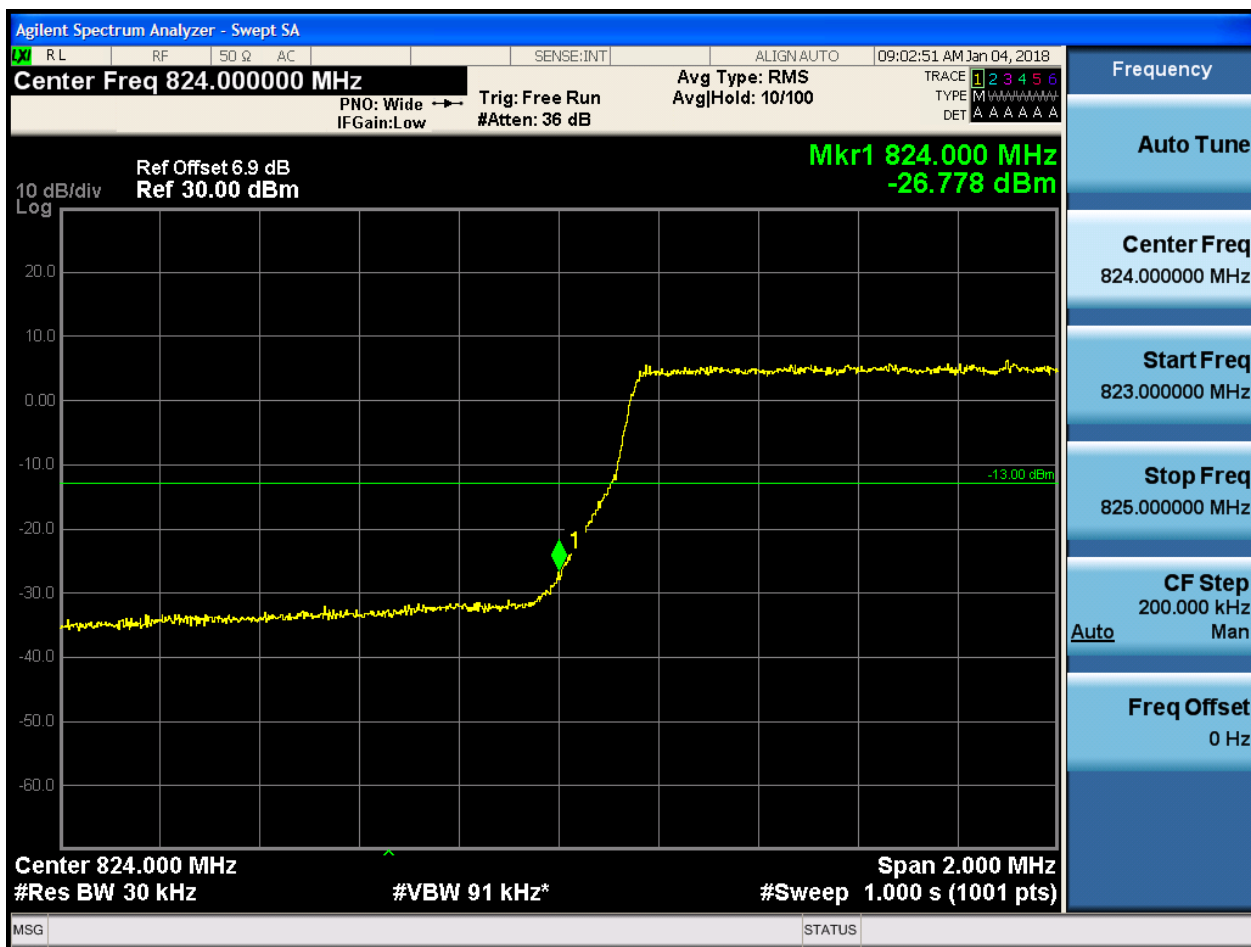
Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



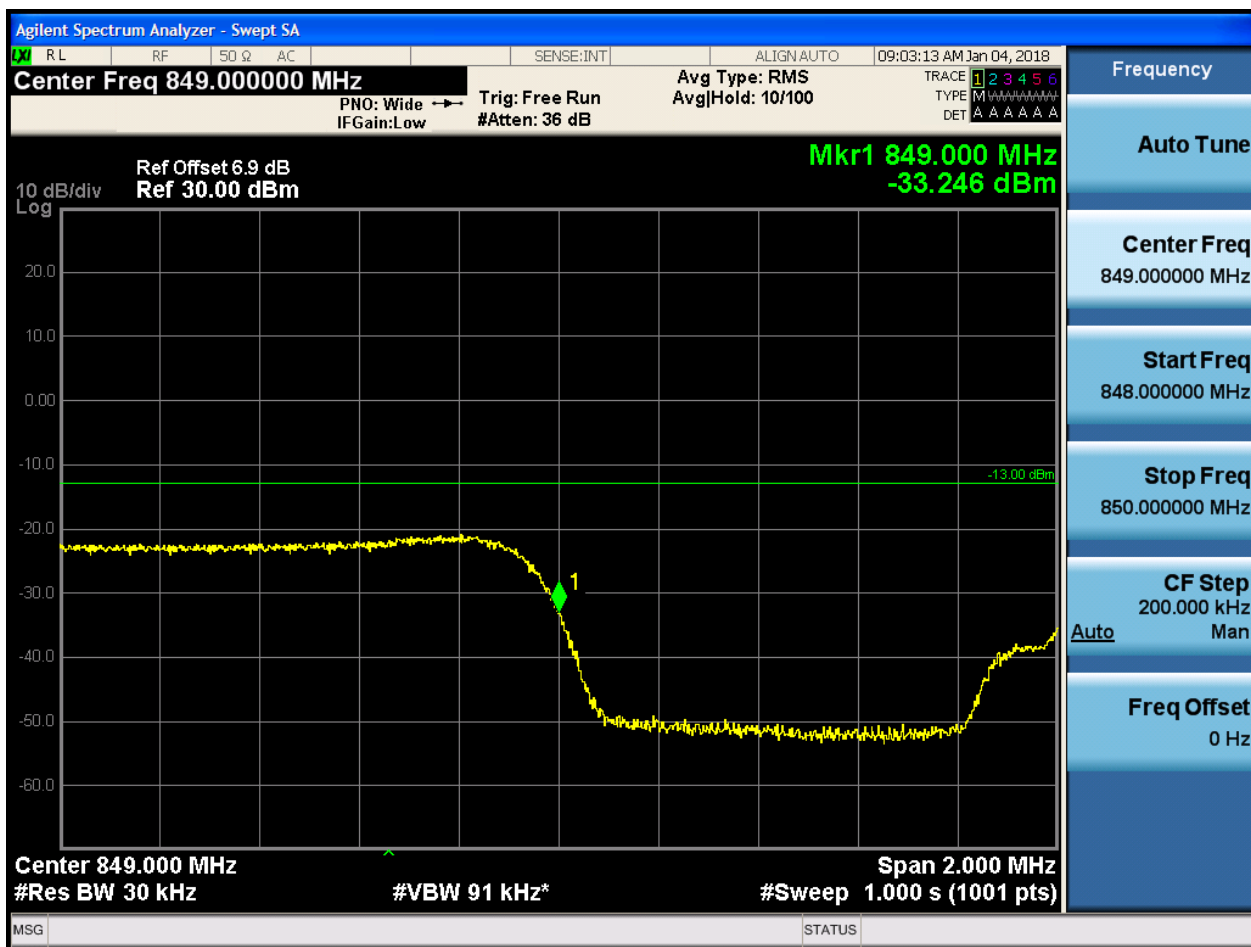
5.1.1.1.2.1.4 Test RB = RB15#0





5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.010 MHz
-17.390 dBm

Center 849.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.010 MHz
-30.510 dBm

Center 849.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

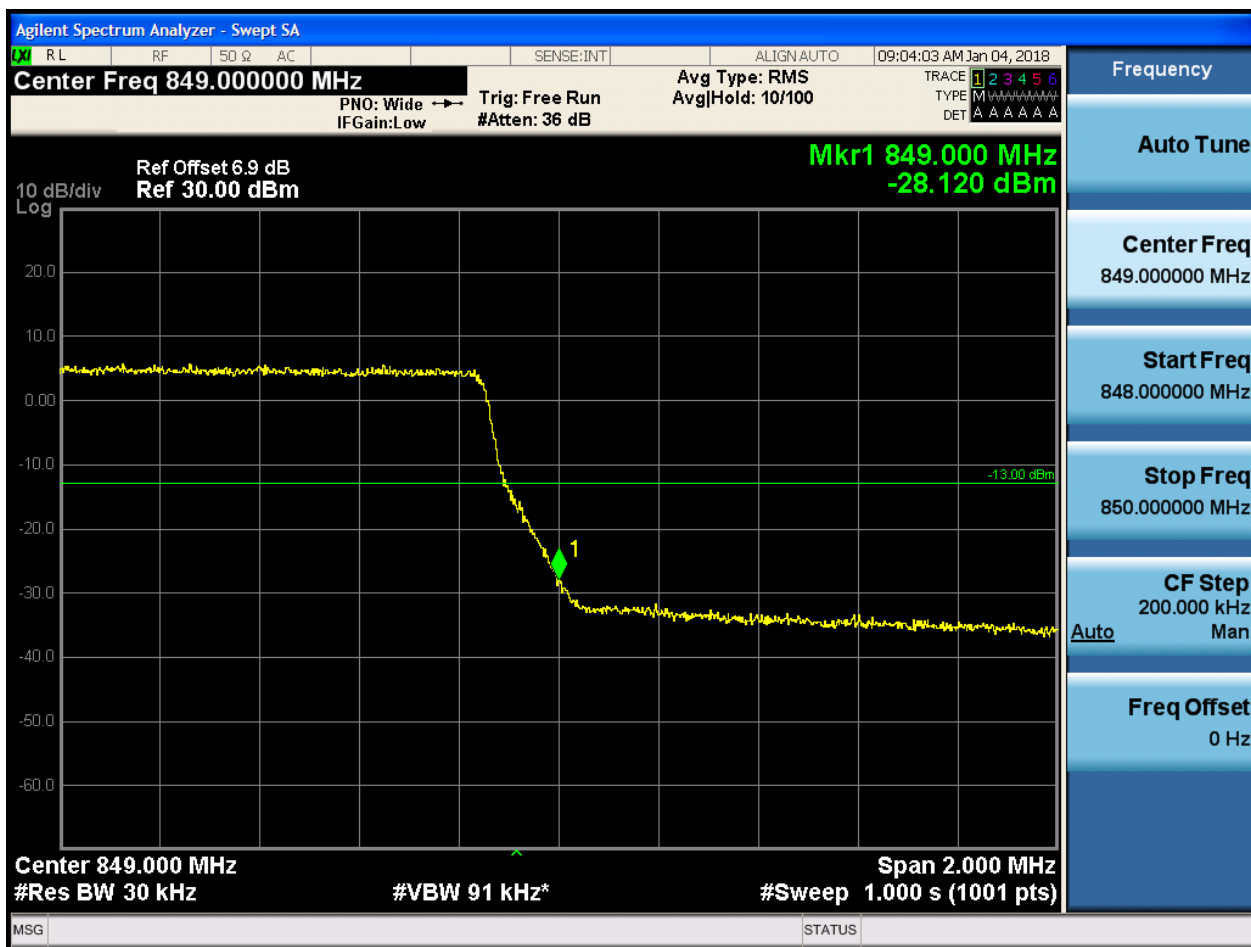
Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.2.4 Test RB = RB15#0

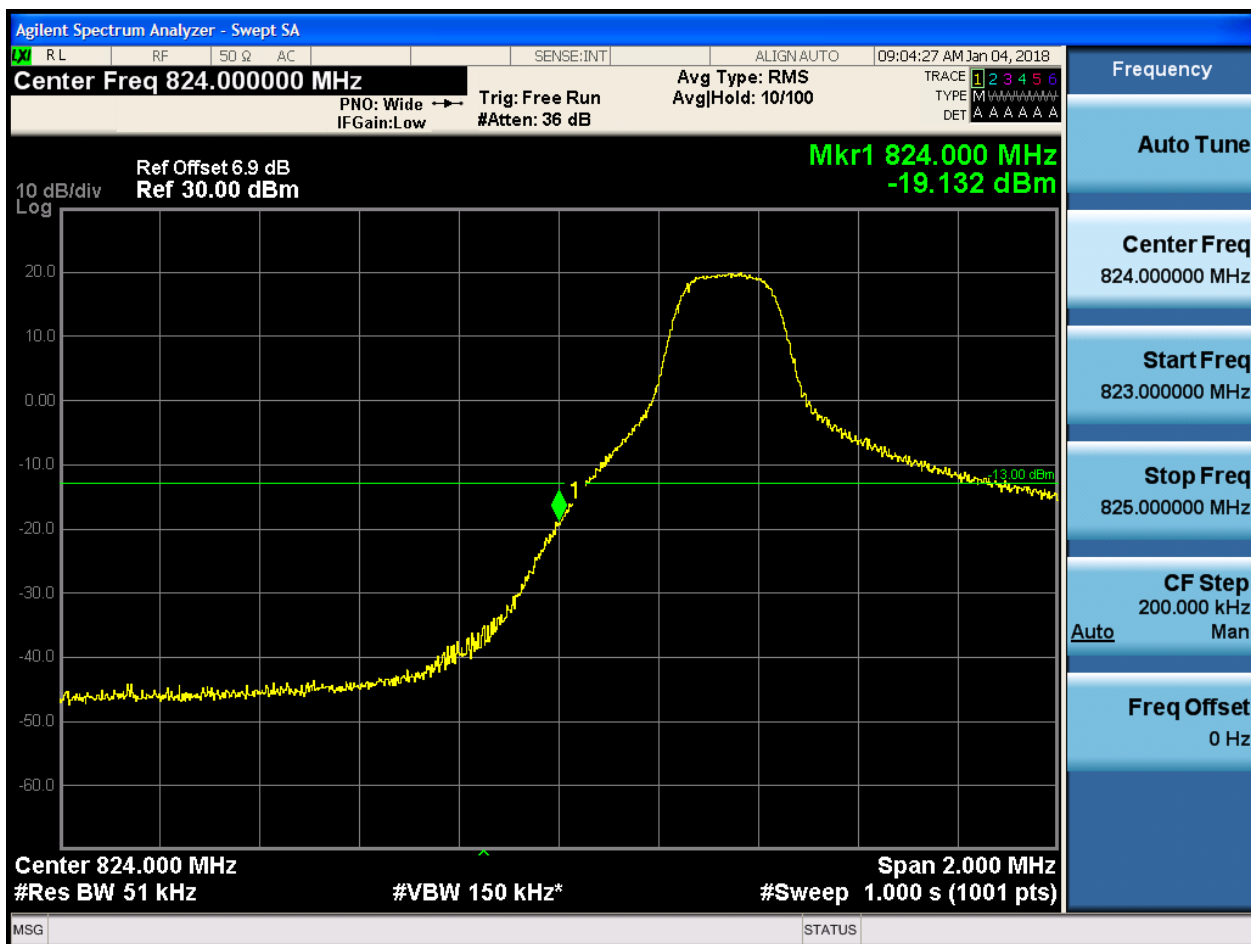




5.1.1.1.3 Test Bandwidth = 5

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:04:43 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-37.589 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 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:05:00 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-31.669 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-27.477 dBm

Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 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
Auto Man

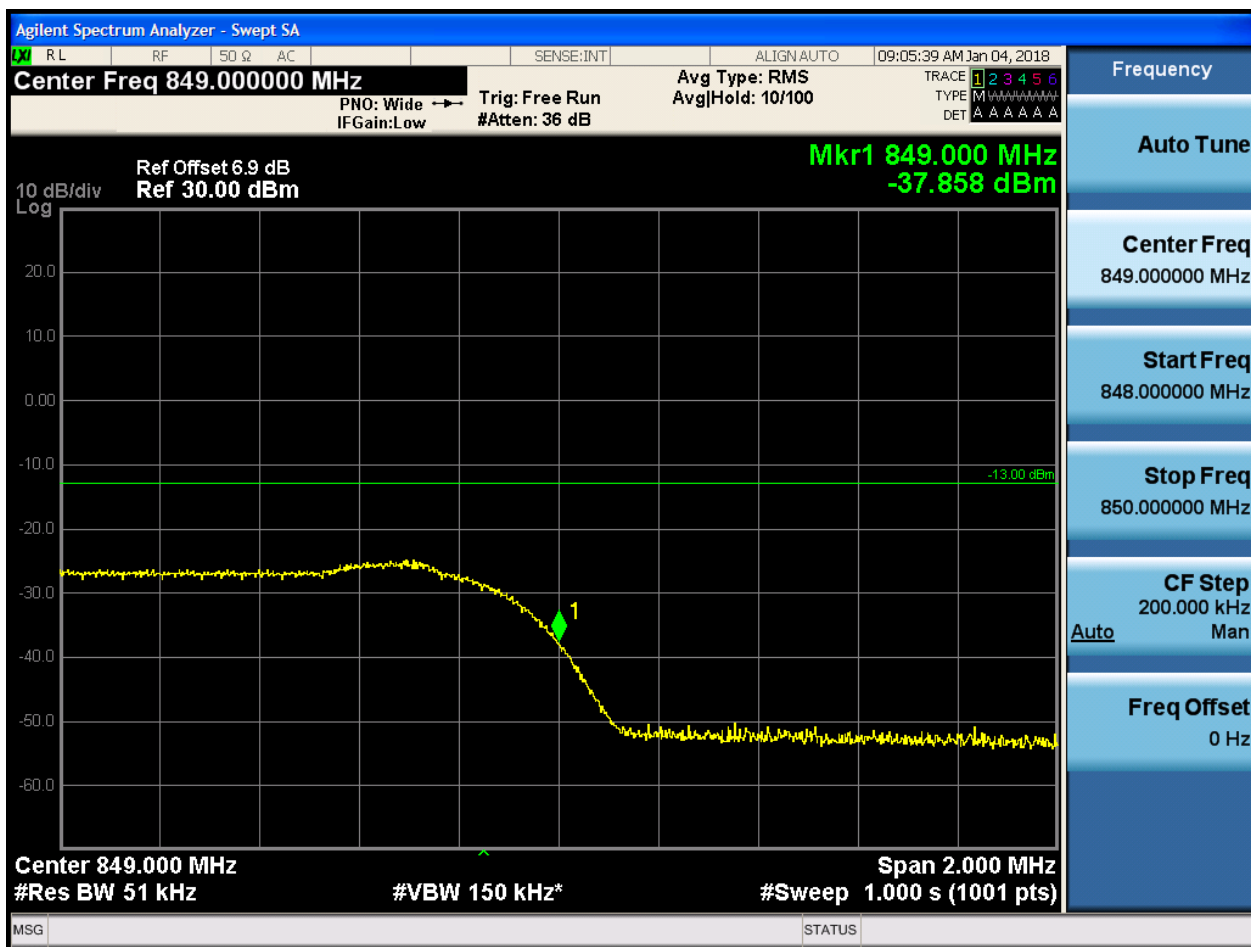
Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in a swept mode. The main display is a log-scale plot of power (dBm) versus frequency (MHz). The signal is centered at 824.000 MHz. The plot shows a signal that is relatively flat at -35 dBm from 823 MHz to about 823.8 MHz, then rises sharply to -13 dBm by 824.2 MHz, and remains flat at that level until 825 MHz. A green horizontal line is drawn at -13.00 dBm. The right-hand side of the screen has a blue panel with various settings and parameters. The top of the panel shows 'Frequency' and 'Auto Tune'. Below that are 'Center Freq' (824.000000 MHz), 'Start Freq' (823.000000 MHz), 'Stop Freq' (825.000000 MHz), 'CF Step' (200.000 kHz), and 'Freq Offset' (0 Hz). The bottom of the panel has 'Auto' and 'Man' buttons. The top of the screen shows the 'Agilent Spectrum Analyzer - Swept SA' title. Below that are various settings: 'Center Freq 824.000000 MHz', 'Ref Offset 6.9 dB', 'Ref 30.00 dBm', '10 dB/div', 'Log', 'Mkr1 824.000 MHz', '-27.477 dBm', 'Center 824.000 MHz', '#Res BW 51 kHz', '#VBW 150 kHz*', 'Span 2.000 MHz', and '#Sweep 1.000 s (1001 pts)'. The bottom of the screen shows 'MSG' and 'STATUS' buttons.



5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:05:56 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-19.673 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:06:13 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#Atten: 36 dB

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

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-33.113 dBm

10 dB/div
Log

-13.00 dBm

Center 849.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

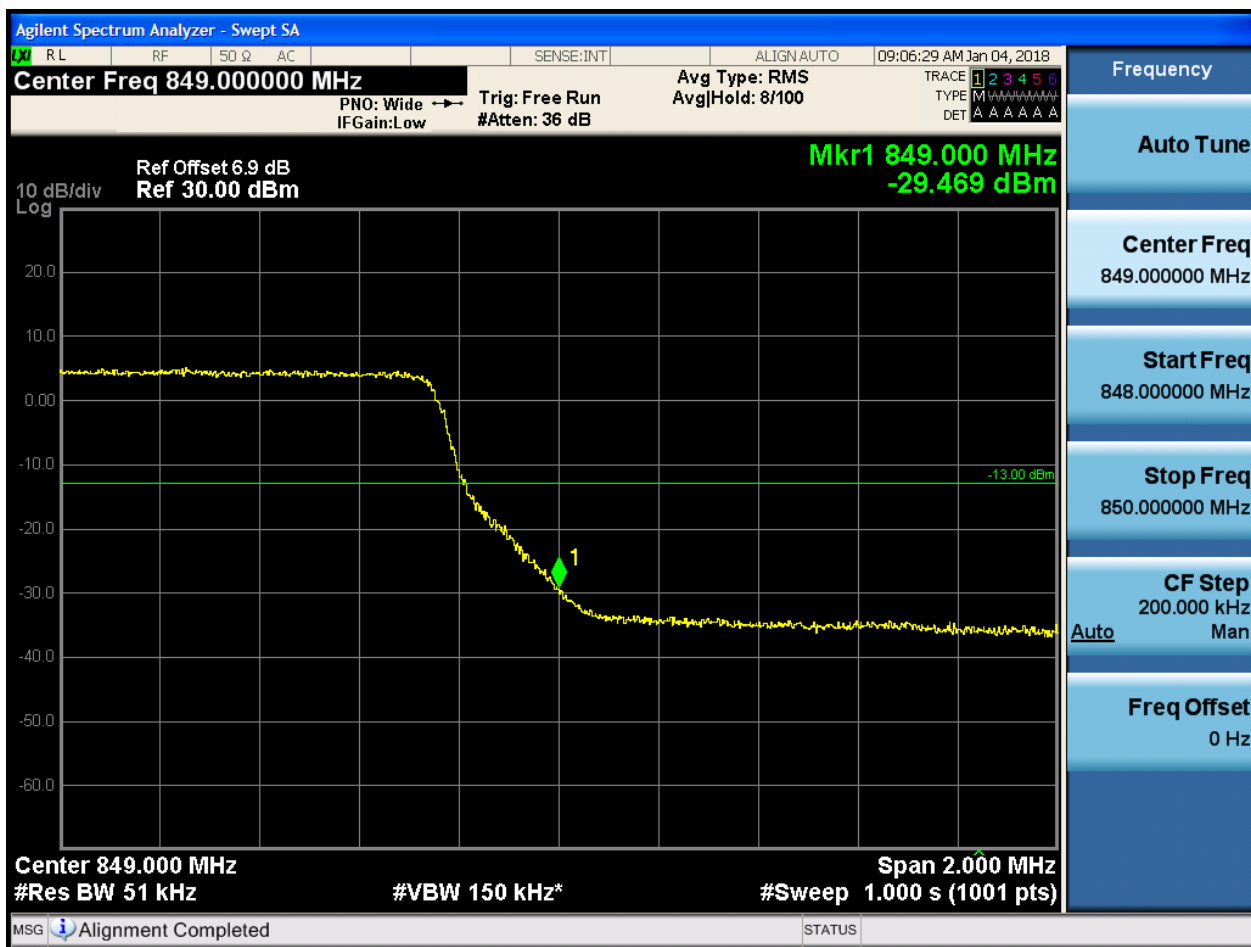
Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.2.4 Test RB = RB25#0

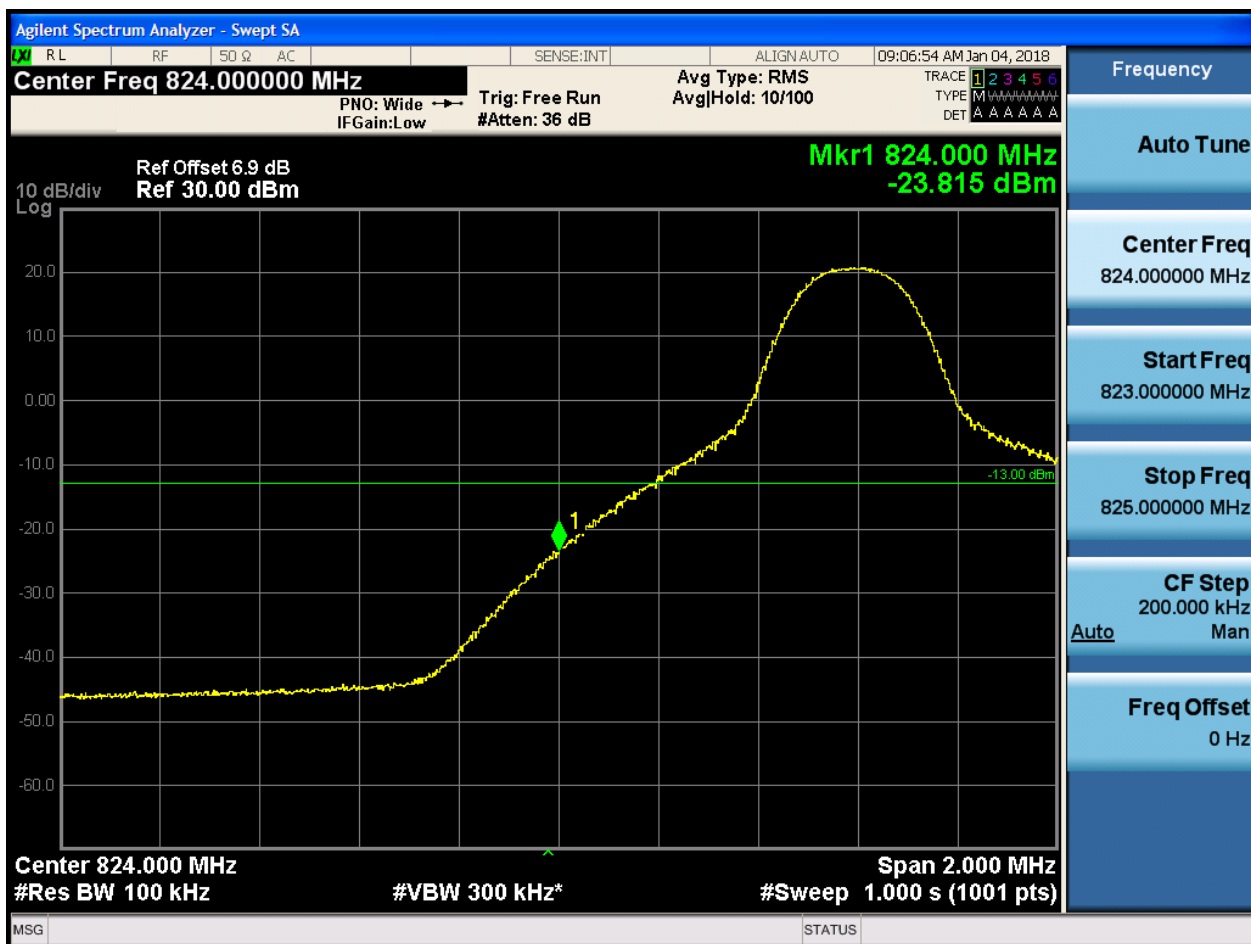




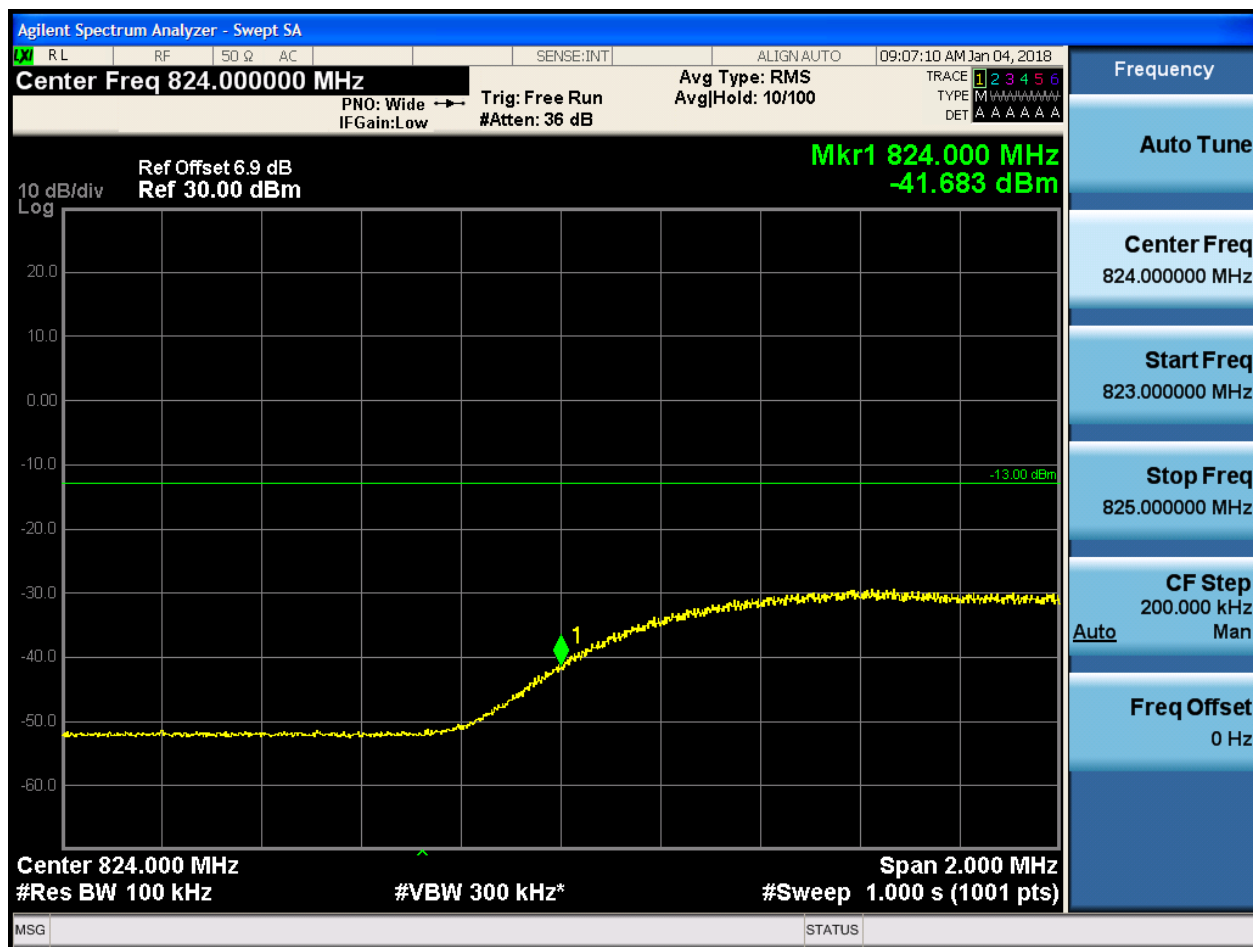
5.1.1.1.4 Test Bandwidth = 10

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:07:27 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-33.086 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:07:44 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-30.312 dBm

10 dB/div
Log

-13.00 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 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

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:08:22 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-22.797 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-34.185 dBm

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

Span 2.000 MHz
#Sweep 1.000 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
Auto Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in Swept SA mode. The main display area shows a frequency spectrum with a yellow trace. A green horizontal line is drawn across the spectrum at -13.00 dBm. A yellow marker labeled '1' is positioned at the center frequency of 849.000 MHz, indicating a power level of -34.185 dBm. The y-axis is labeled '10 dB/div' and 'Log', with a scale from -60.0 to 20.0. The x-axis represents frequency, with a center frequency of 849.000 MHz, a span of 2.000 MHz, and a resolution bandwidth (Res BW) of 100 kHz. The video bandwidth (VBW) is set to 300 kHz. The sweep time is 1.000 s, resulting in 1001 points. The reference level is 30.00 dBm, and the reference offset is 6.9 dB. The display also shows various settings like PNO: Wide, IF Gain: Low, Trig: Free Run, and #Atten: 36 dB. The right side of the screen features a control panel with buttons for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset.



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:08:54 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-30.848 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

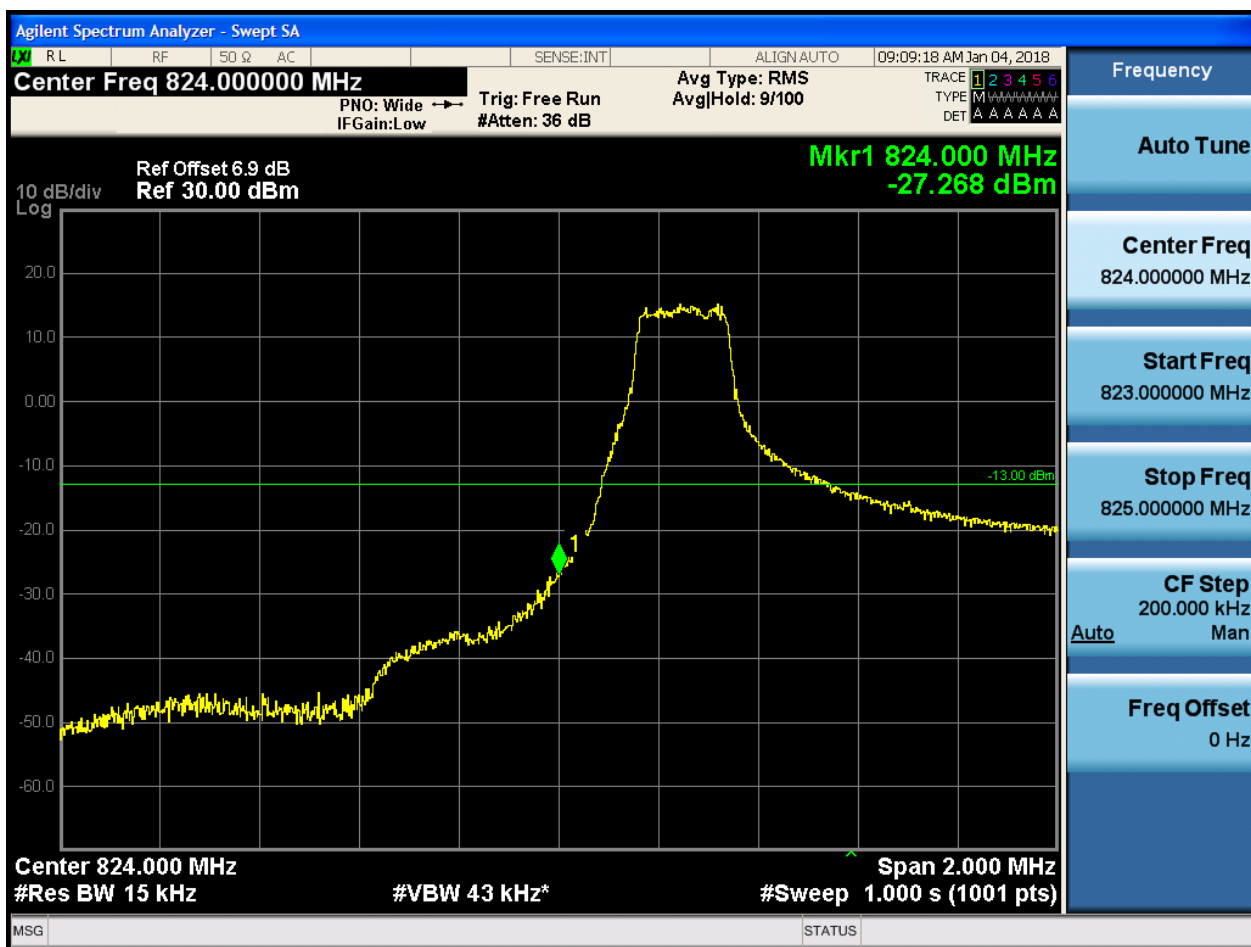


5.1.1.2 Test Mode = LTE/TM2

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:09:50 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 823.940 MHz
-33.482 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:10:06 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide Trg: Free Run
IFGain: Low #Atten: 36 dB

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

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 823.970 MHz
-29.149 dBm

10 dB/div
Log

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

Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

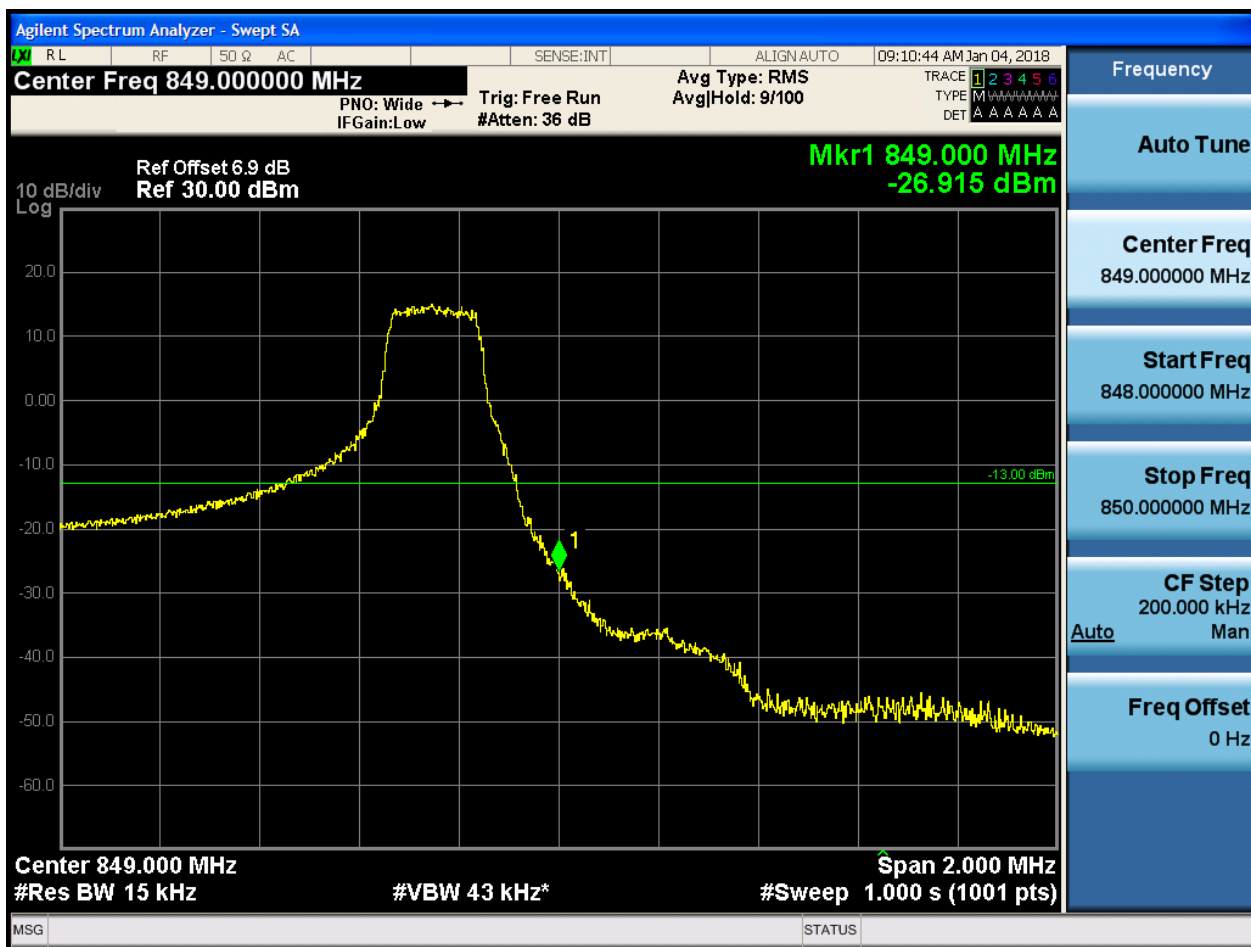
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



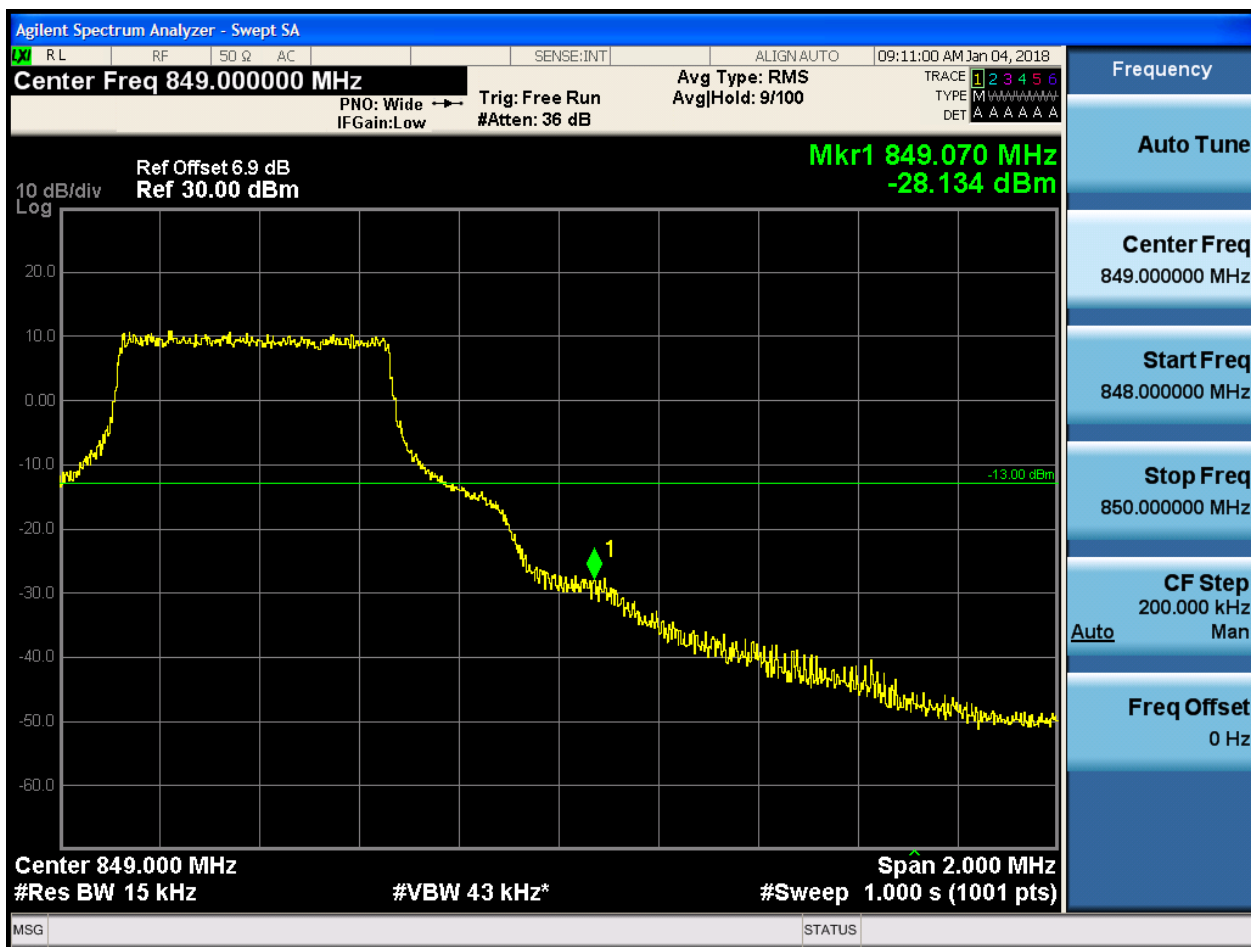


5.1.1.2.1.2.2 Test RB = RB1#5



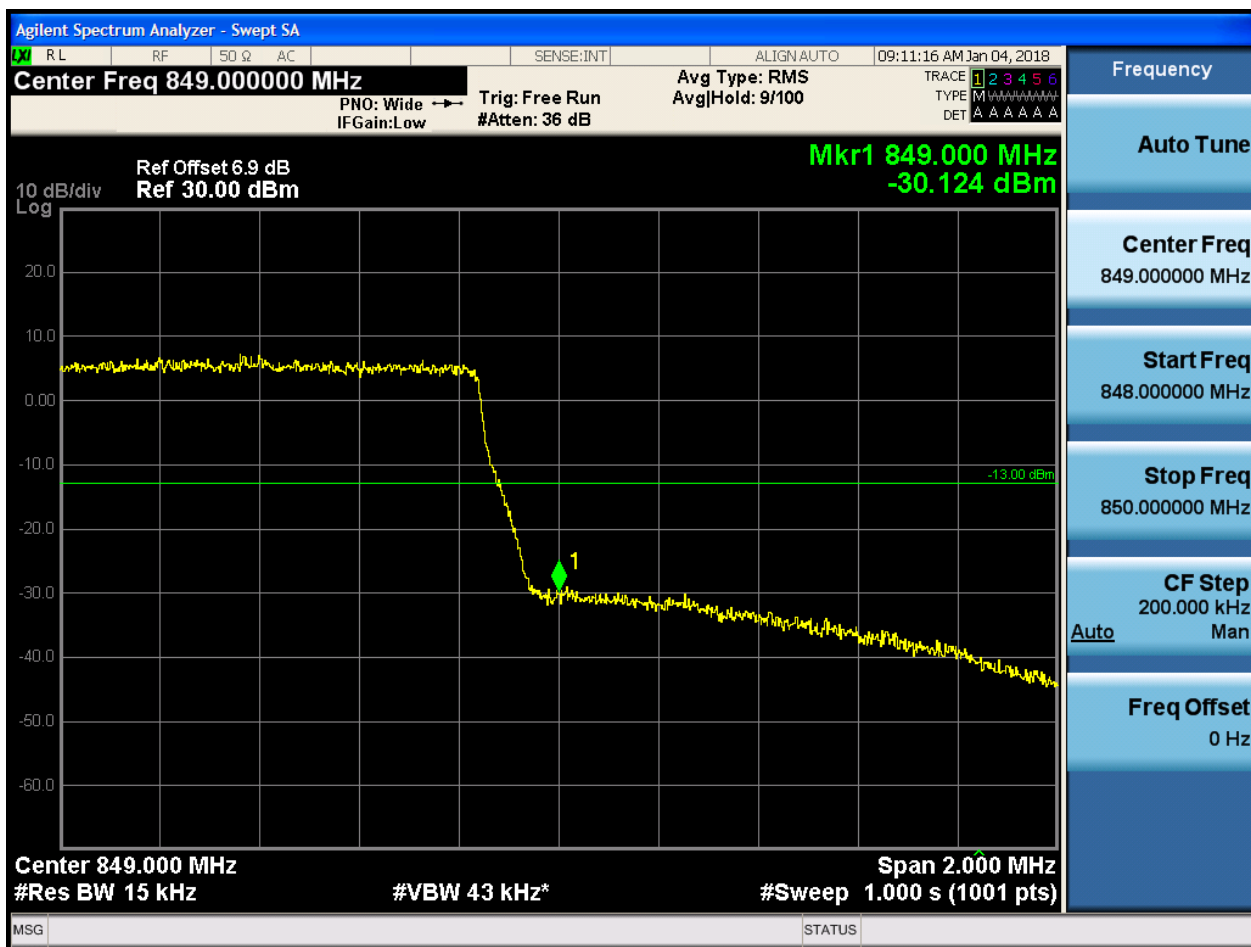


5.1.1.2.1.2.3 Test RB = RB3#2





5.1.1.2.1.2.4 Test RB = RB6#0

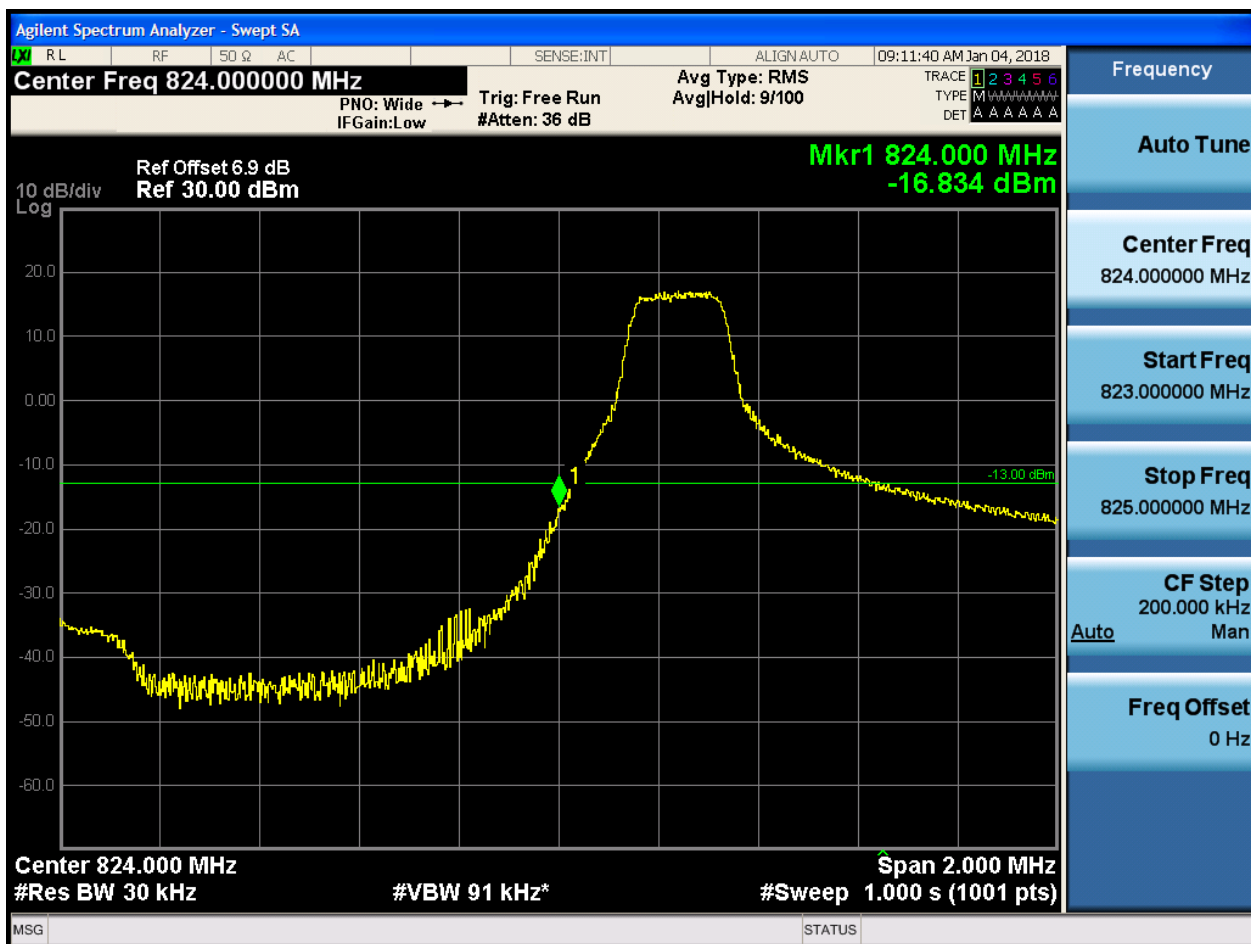




5.1.1.2.2 Test Bandwidth = 3

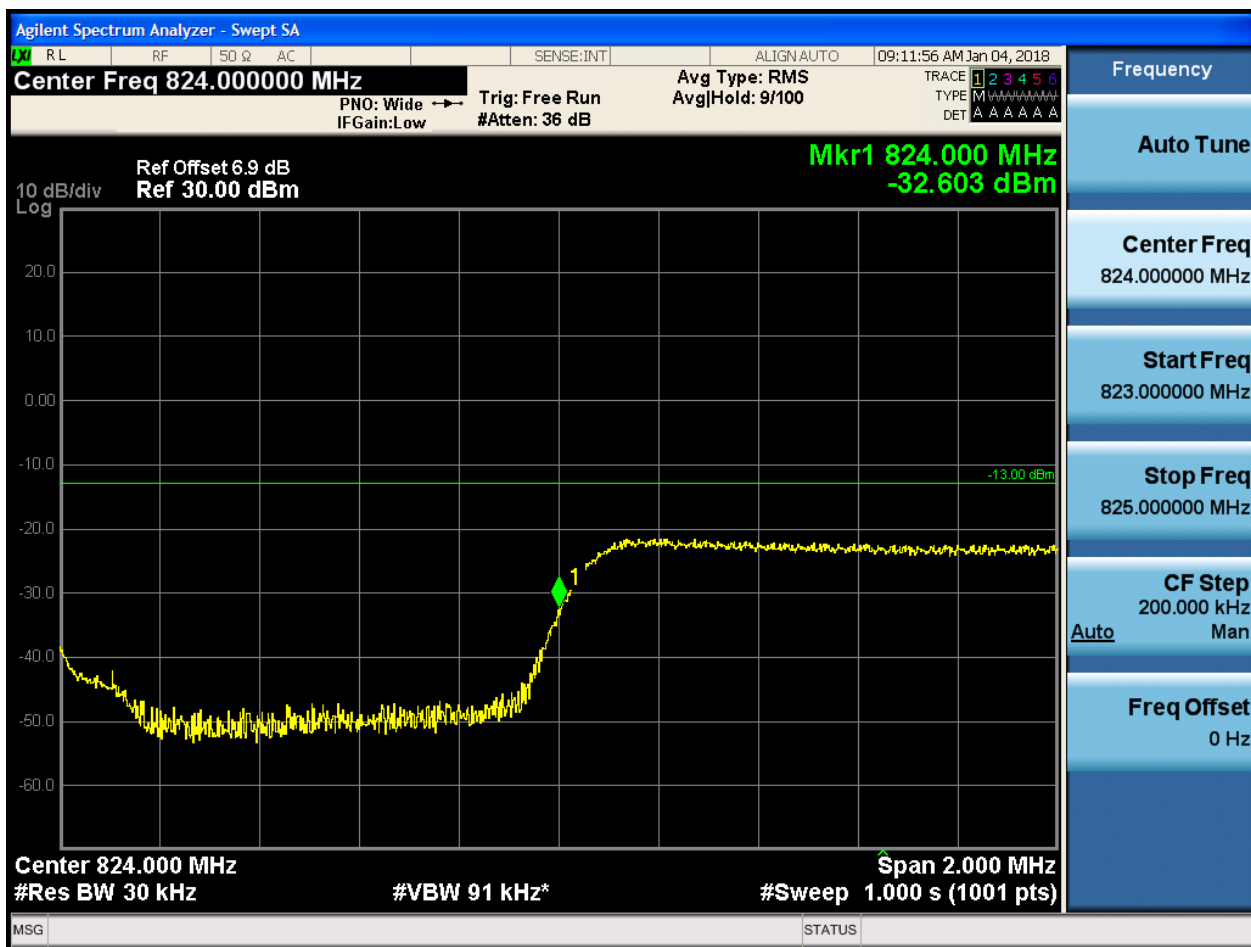
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
#Sweep 1.000 s (1001 pts)

Mkr1 824.000 MHz
-30.985 dBm

-13.00 dBm

Span 2.000 MHz

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

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:12:28 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-28.189 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

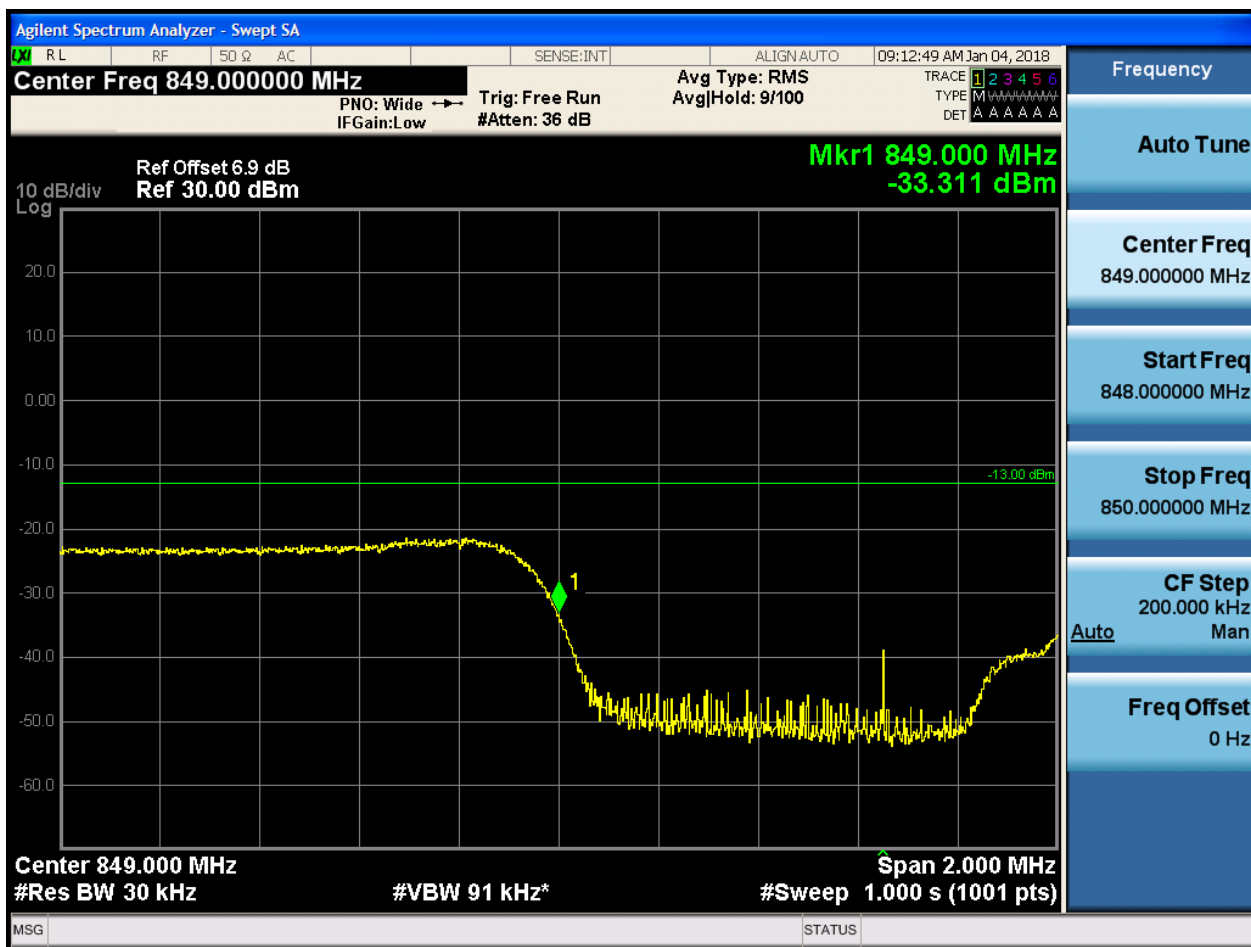
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



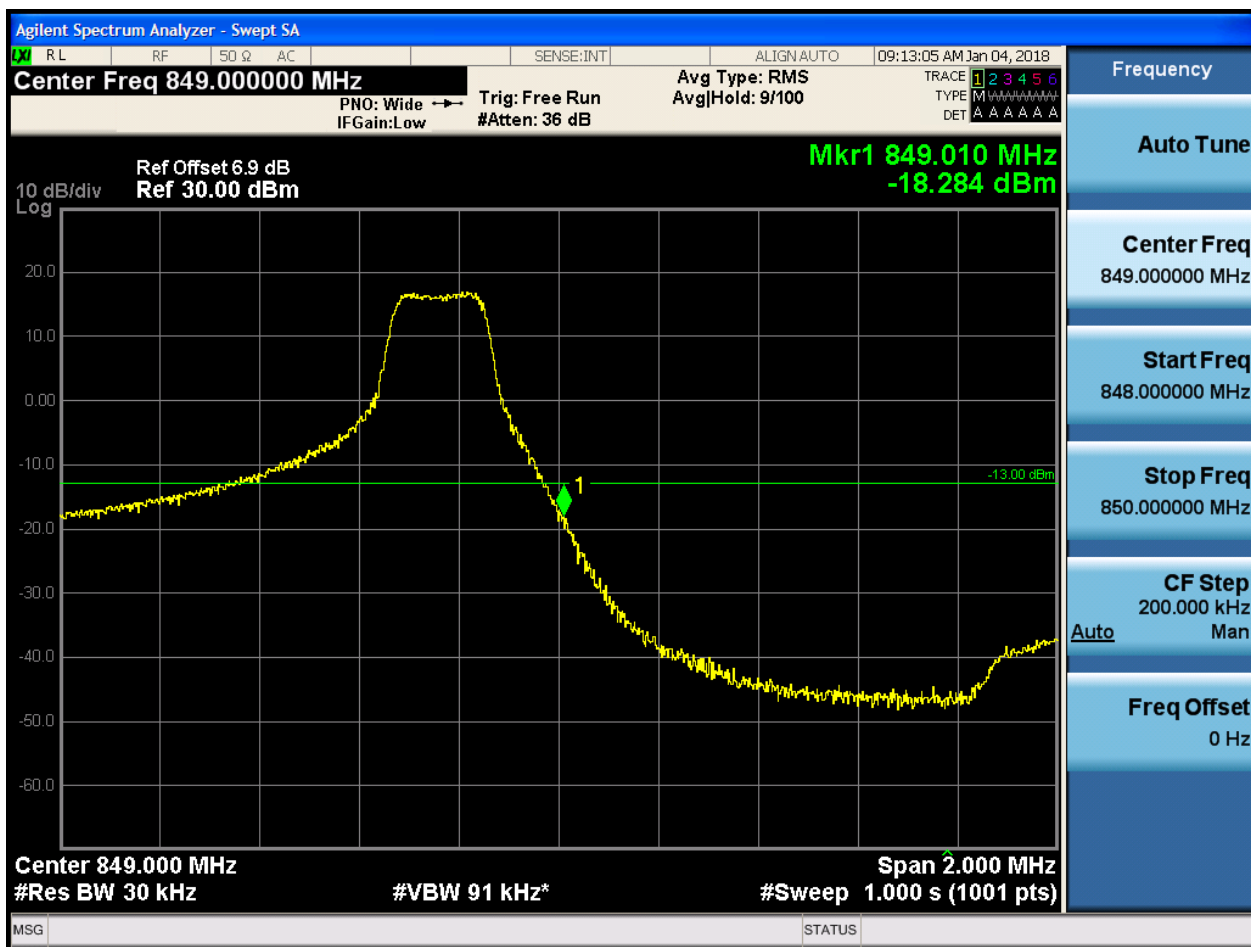
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



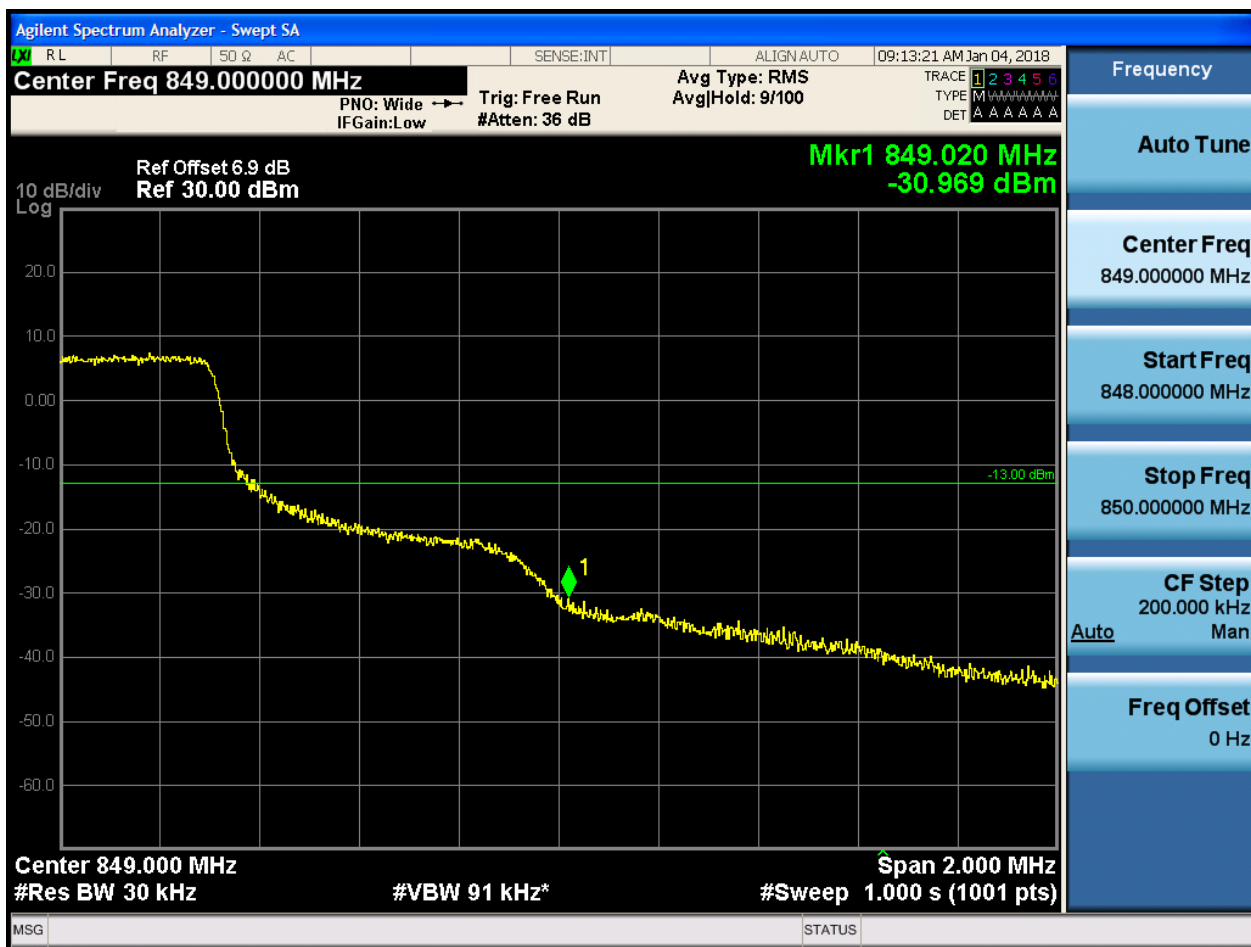


5.1.1.2.2.2 Test RB = RB1#14





5.1.1.2.2.3 Test RB = RB8#4





5.1.1.2.2.4 Test RB = RB15#0

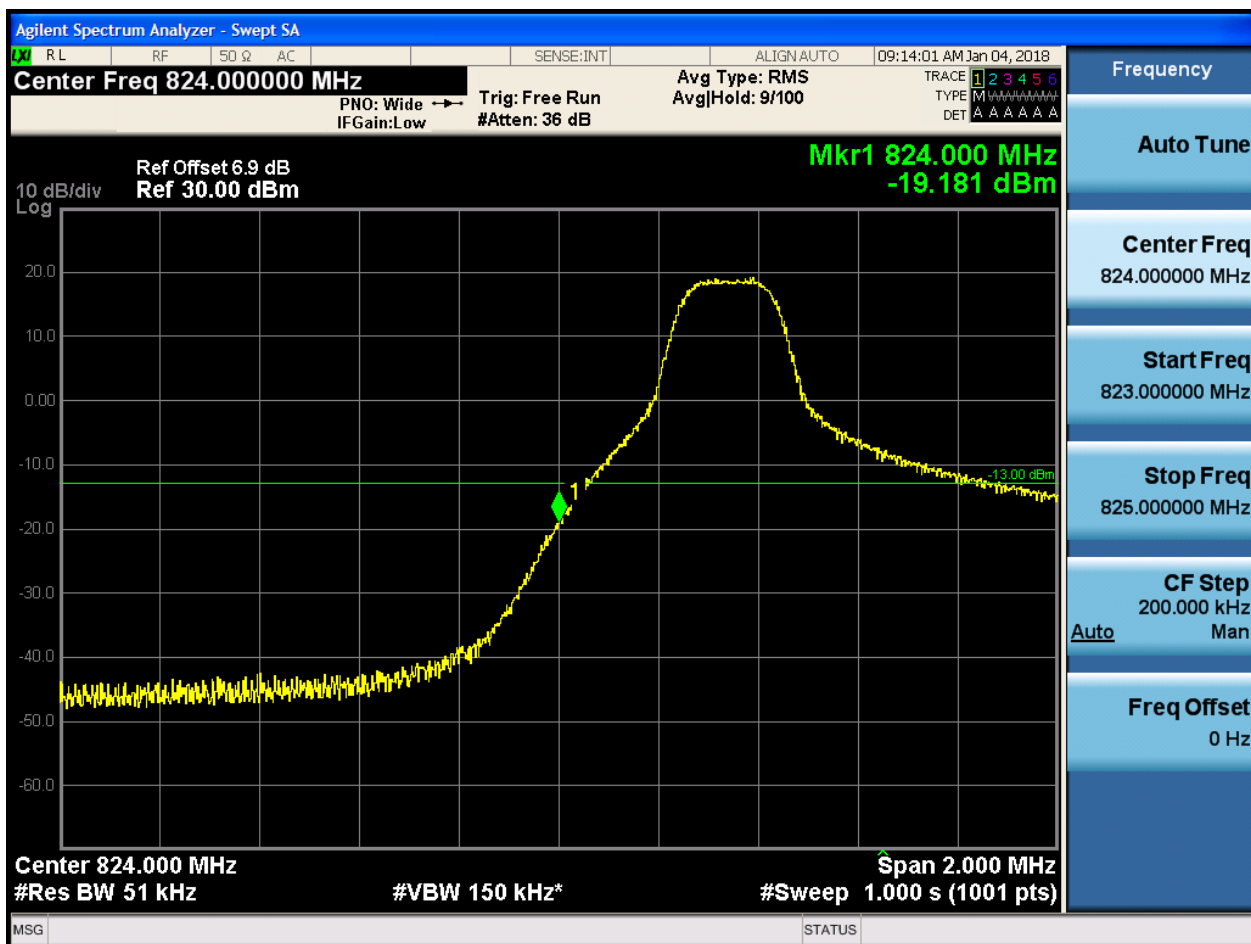




5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:14:17 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-38.797 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

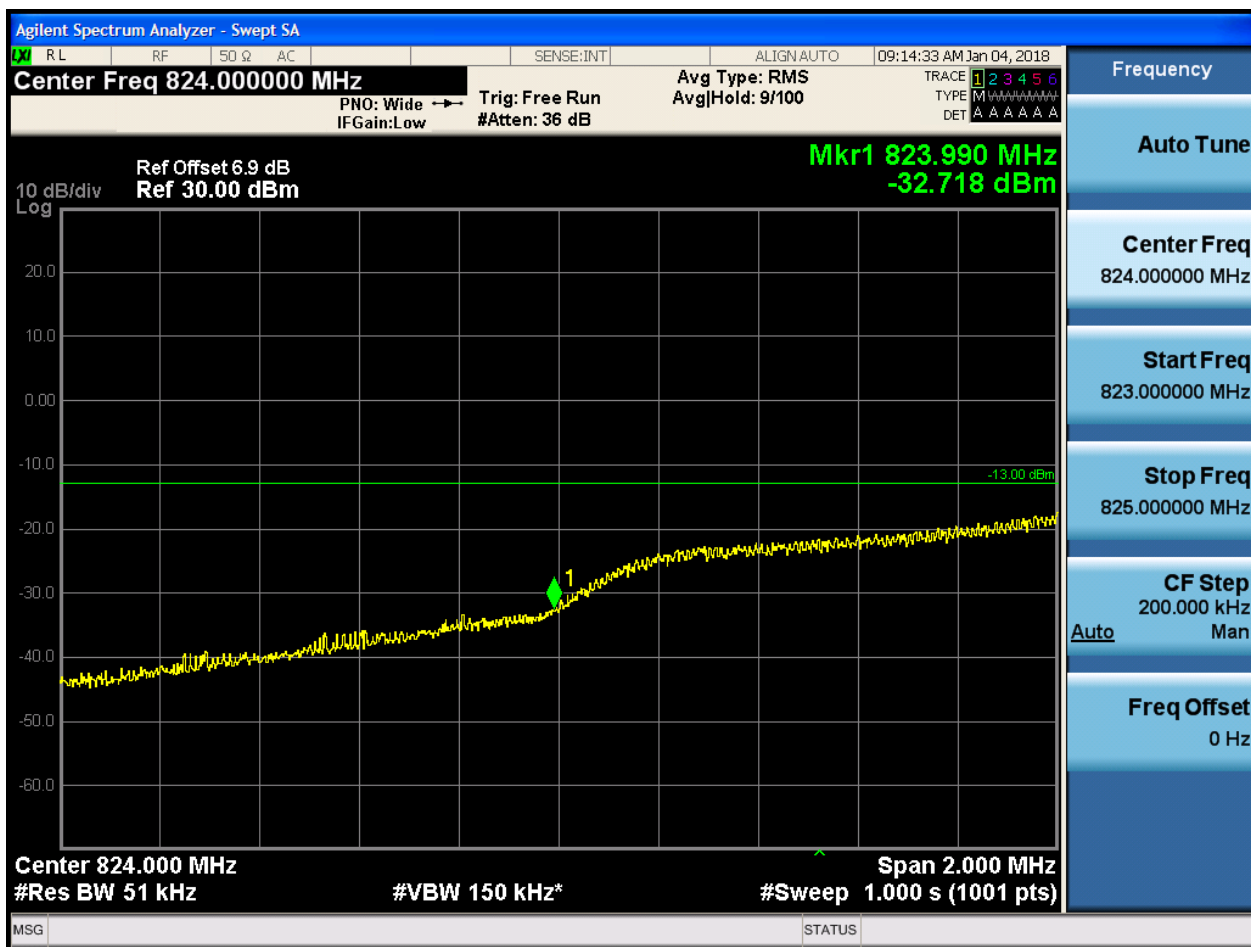
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

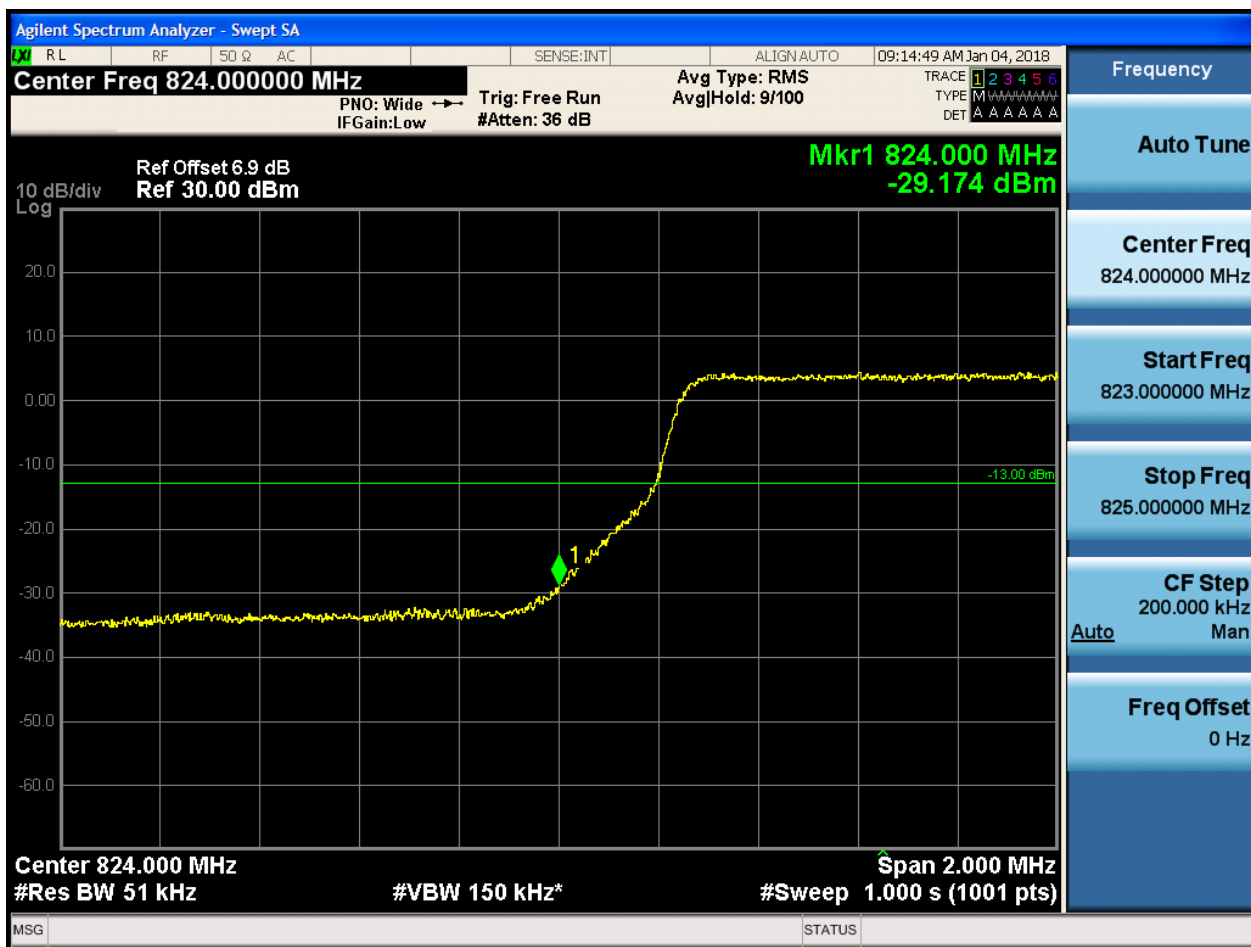


5.1.1.2.3.1.3 Test RB = RB12#6





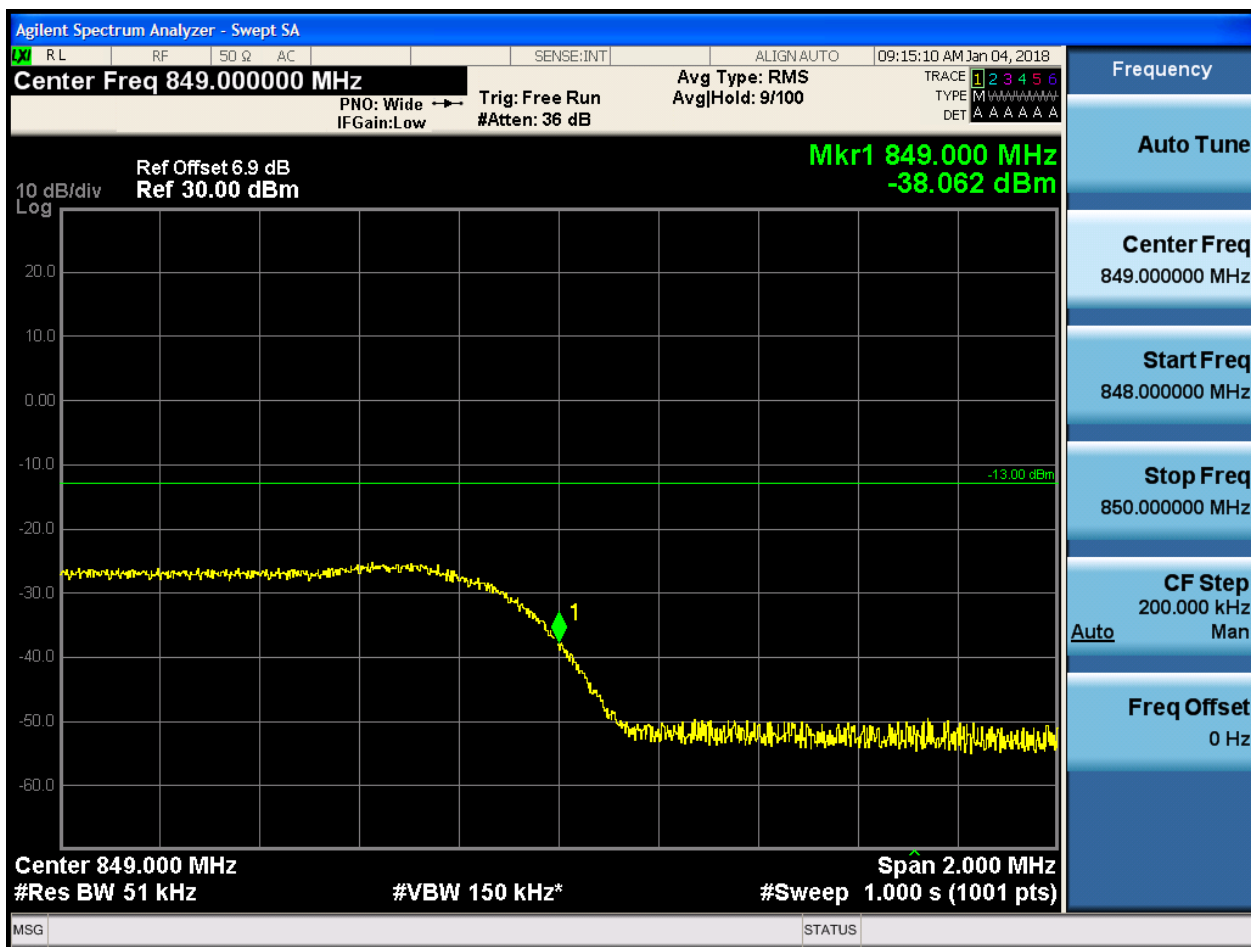
5.1.1.2.3.1.4 Test RB = RB25#0





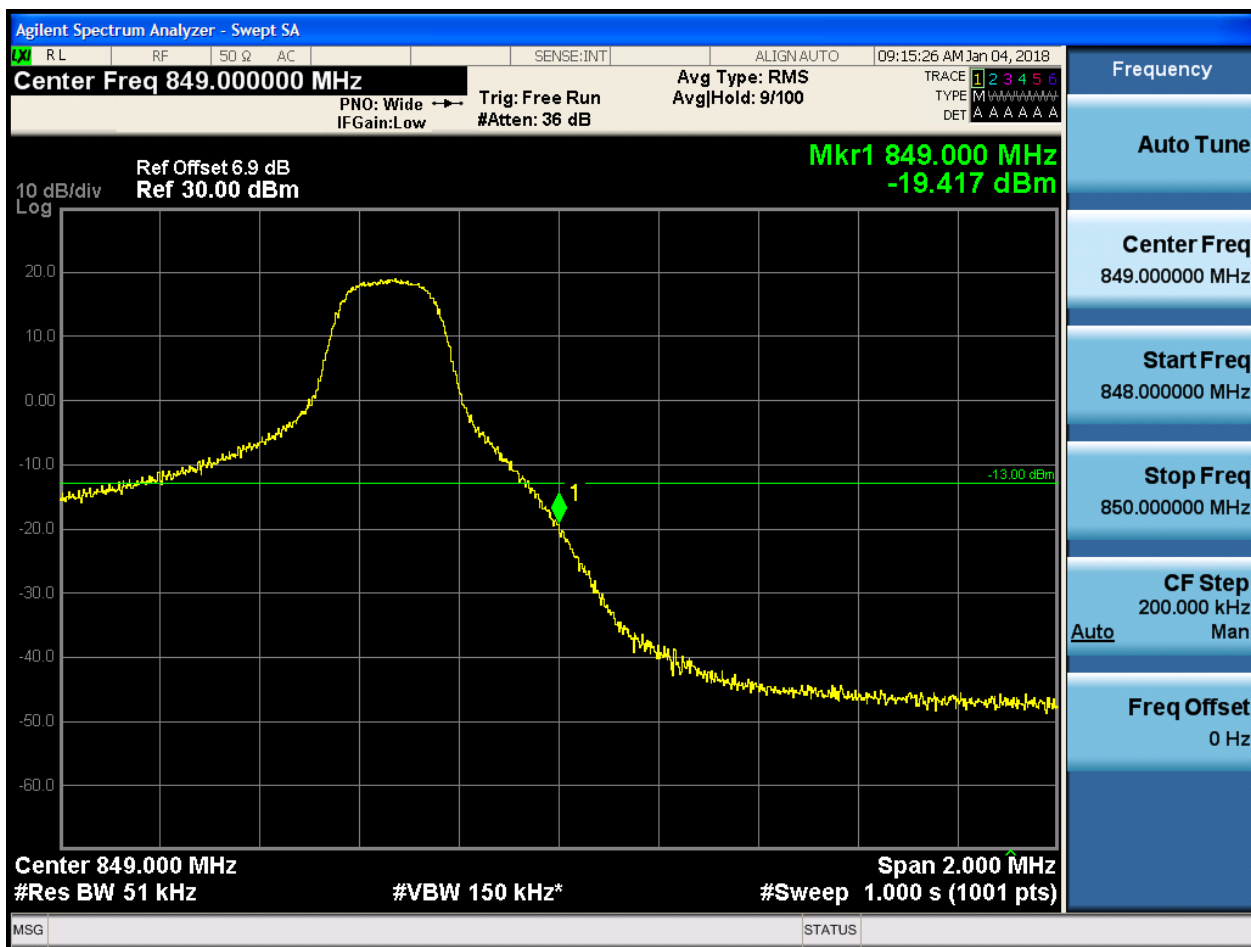
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:15:42 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-33.572 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 51 kHz #VBW 150 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-29.500 dBm

Center 849.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 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
Auto Man

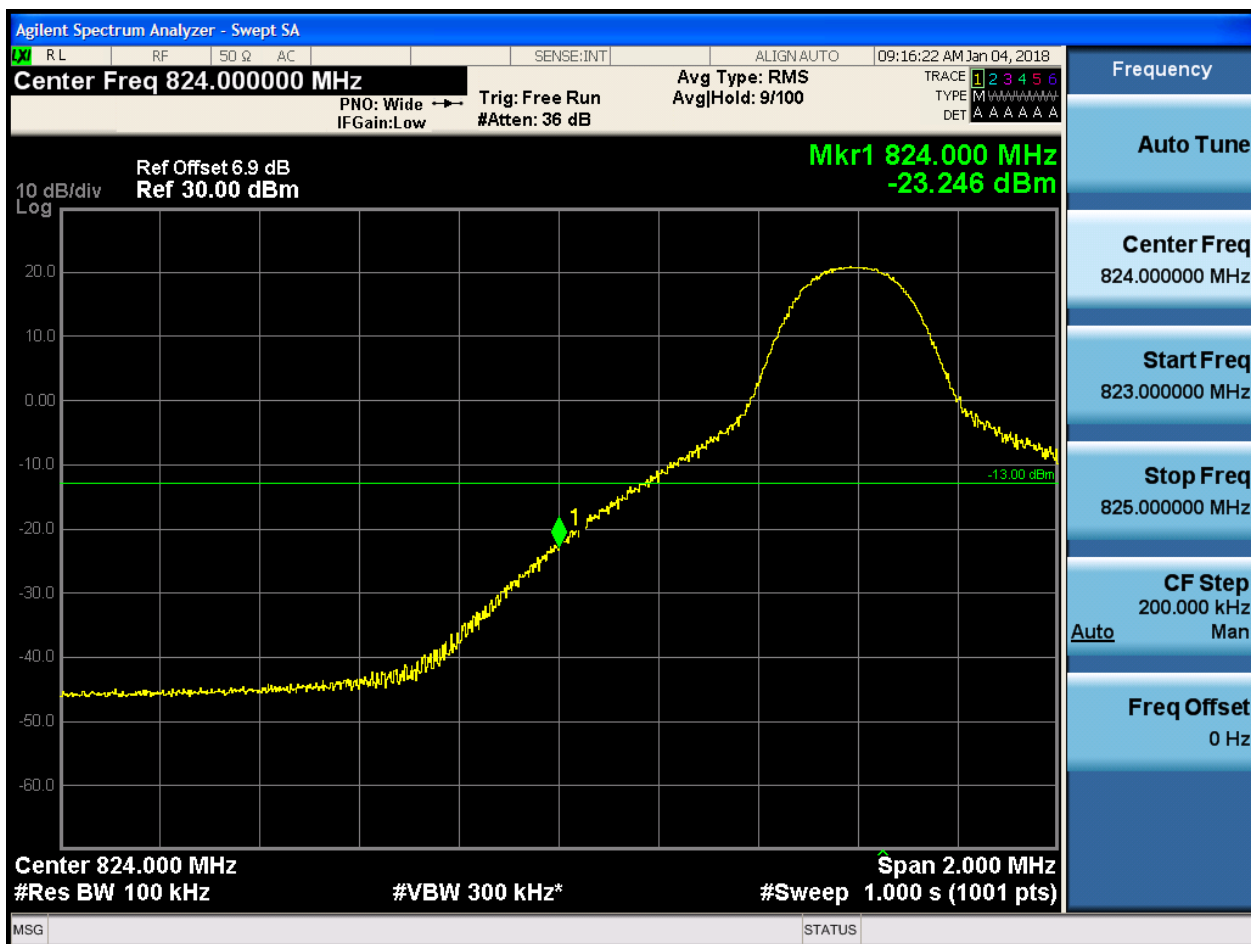
Freq Offset
0 Hz



5.1.1.2.4 Test Bandwidth = 10

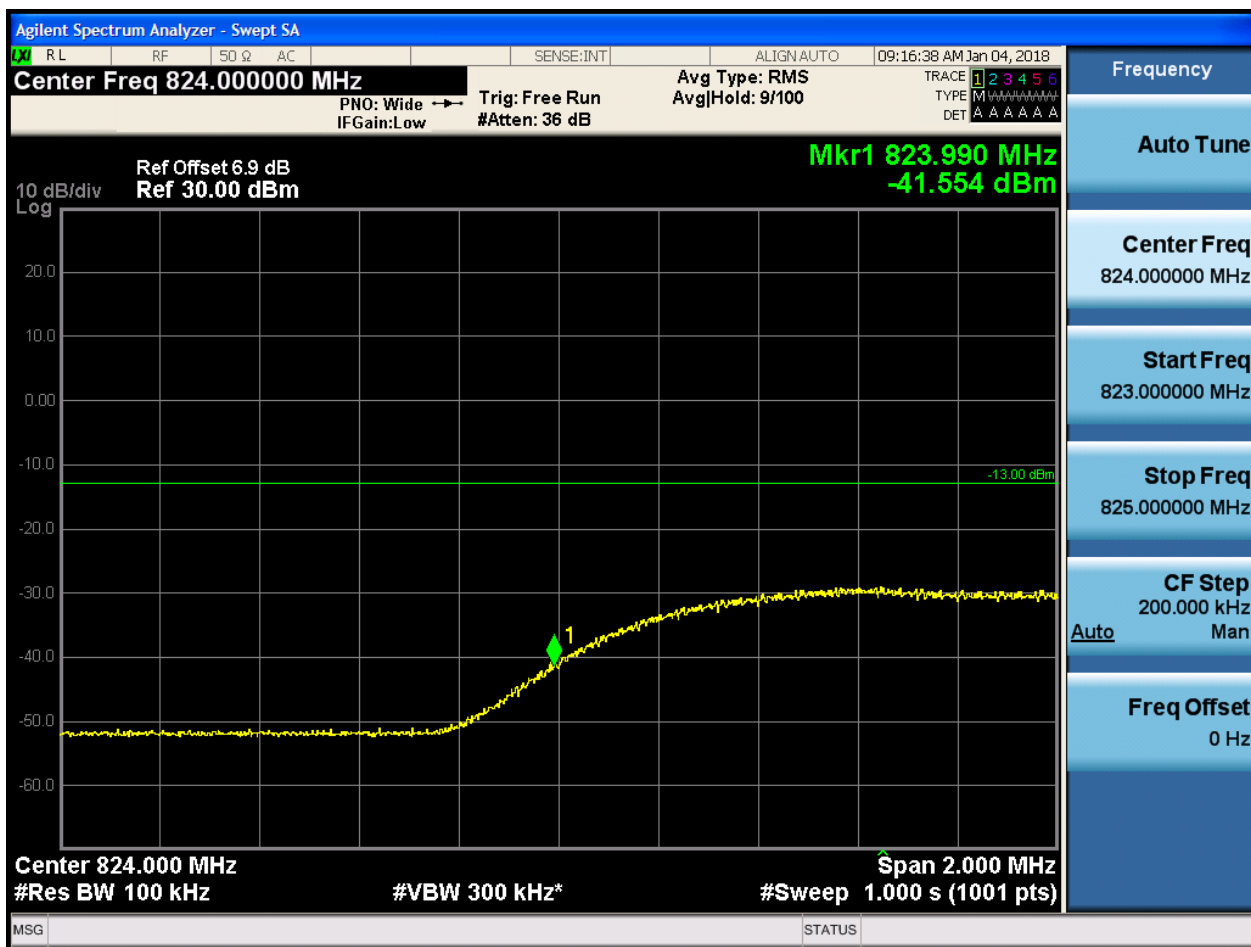
5.1.1.2.4.1 Test Channel = LCH

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 09:16:54 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide Trg: 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 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 823.990 MHz
-33.944 dBm

-13.00 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 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
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:17:10 AM Jan 04, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-30.837 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

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 Avg Type: RMS Trace 1 2 3 4 5 6
 PNO: Wide → Trig: Free Run AvgHold: 9/100
 IFGain: Low #Atten: 36 dB TYPE M W W W W W W W
 DET A A A A A A

Ref Offset 6.9 dB Mkr1 849.000 MHz
 Ref 30.00 dBm -22.313 dBm

10 dB/div Log

Center 849.000 MHz Span 2.000 MHz
 #Res BW 100 kHz #VBW 300 kHz* #Sweep 1.000 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 <u>Auto</u> Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:18:04 AM Jan 04, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-33.776 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



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

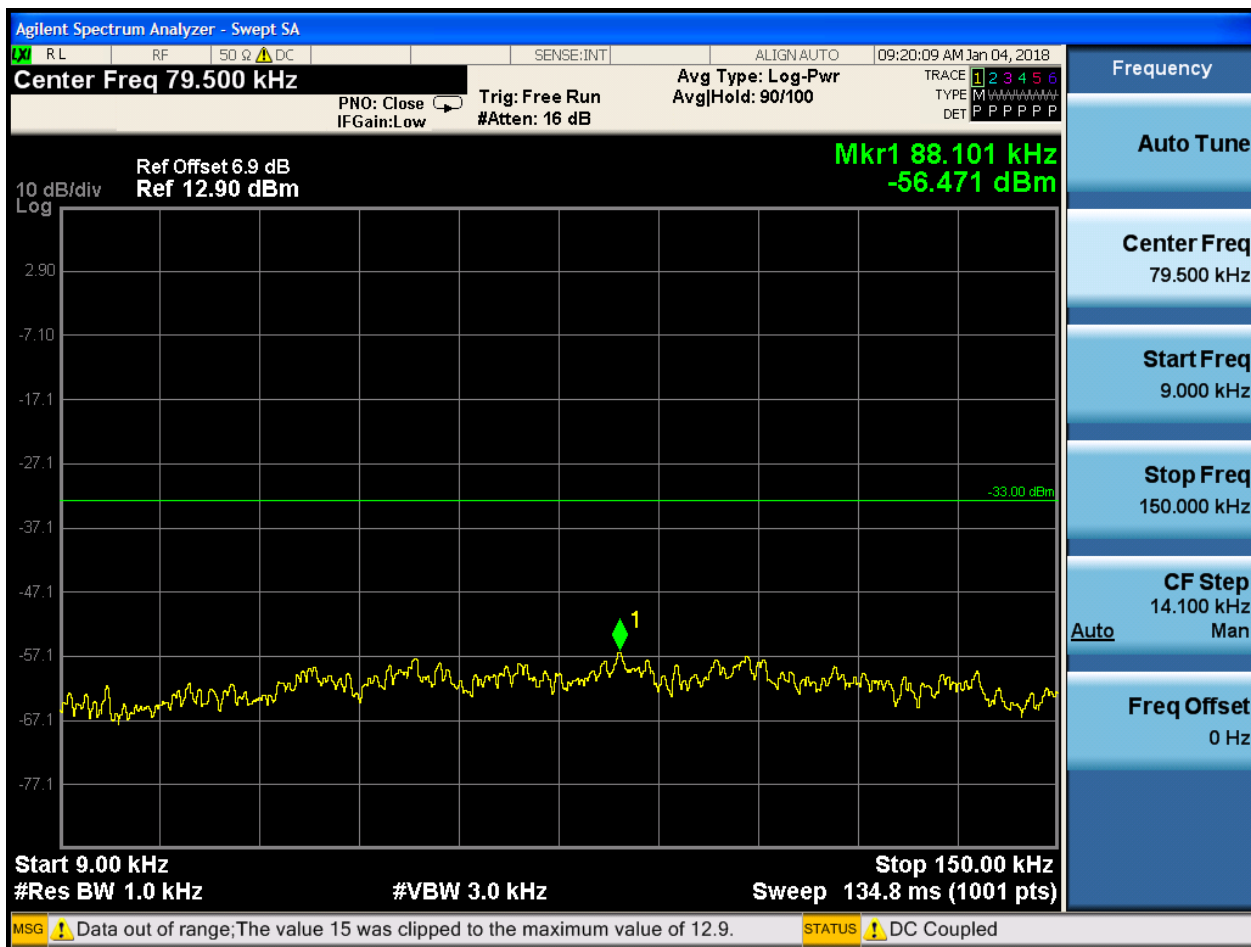
6.1.1 Test Band = BAND5

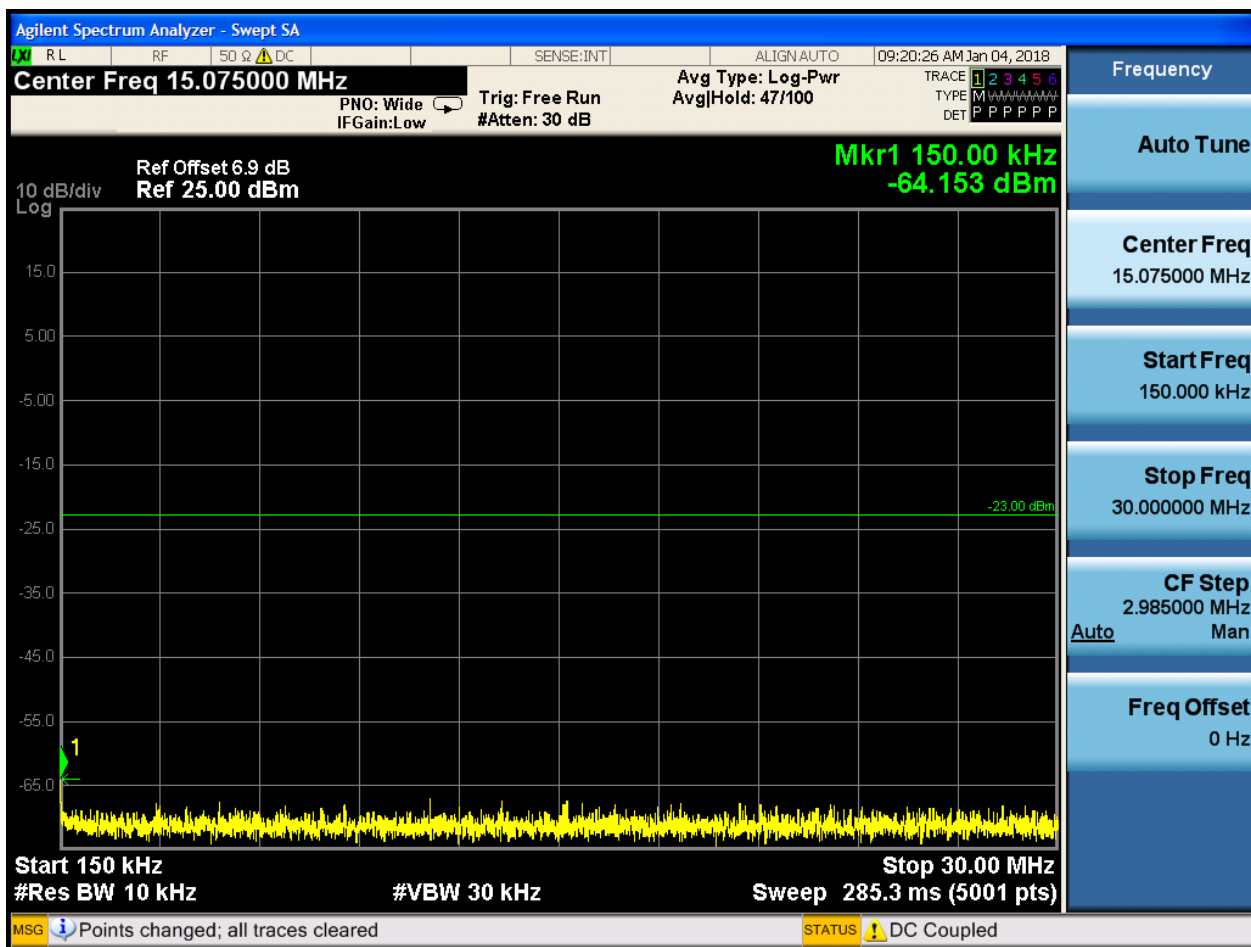
6.1.1.1 Test Mode = LTE/TM1

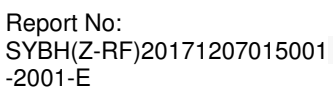
6.1.1.1.1 Test Bandwidth = 1.4

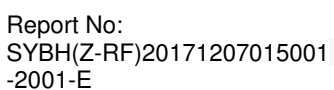
6.1.1.1.1.1 Test Channel = LCH

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

