



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	22.93	18.78	38.5	PASS
				RB1#3	22.99	18.53	38.5	PASS
				RB1#5	22.92	18.48	38.5	PASS
				RB3#0	23.03	18.65	38.5	PASS
				RB3#2	22.96	18.64	38.5	PASS
				RB3#3	22.93	18.60	38.5	PASS
				RB6#0	21.92	17.72	38.5	PASS
			MCH	RB1#0	22.94	18.49	38.5	PASS
				RB1#3	23.08	18.91	38.5	PASS
				RB1#5	22.8	18.50	38.5	PASS
				RB3#0	22.85	18.67	38.5	PASS
				RB3#2	22.9	18.69	38.5	PASS
				RB3#3	22.84	18.46	38.5	PASS
				RB6#0	21.79	17.29	38.5	PASS
			HCH	RB1#0	22.85	18.58	38.5	PASS
				RB1#3	22.78	18.45	38.5	PASS
				RB1#5	22.71	18.32	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#0	22.95	18.54	38.5	PASS
				RB3#2	22.89	18.41	38.5	PASS
				RB3#3	22.81	18.45	38.5	PASS
				RB6#0	21.86	17.57	38.5	PASS
		3	LCH	RB1#0	23.19	18.82	38.5	PASS
				RB1#7	23.05	18.51	38.5	PASS
				RB1#14	23.02	18.76	38.5	PASS
				RB8#0	21.97	17.81	38.5	PASS
				RB8#4	21.84	17.32	38.5	PASS
				RB8#7	21.8	17.30	38.5	PASS
				RB15#0	21.85	17.53	38.5	PASS
			MCH	RB1#0	22.91	18.45	38.5	PASS
				RB1#7	22.88	18.71	38.5	PASS
				RB1#14	22.86	18.65	38.5	PASS
				RB8#0	21.85	17.32	38.5	PASS
				RB8#4	21.88	17.66	38.5	PASS
				RB8#7	21.77	17.27	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB15#0	21.94	17.41	38.5	PASS
			HCH	RB1#0	22.95	18.46	38.5	PASS
				RB1#7	22.95	18.63	38.5	PASS
				RB1#14	22.83	18.43	38.5	PASS
				RB8#0	21.77	17.46	38.5	PASS
				RB8#4	21.71	17.43	38.5	PASS
				RB8#7	21.76	17.61	38.5	PASS
				RB15#0	21.86	17.45	38.5	PASS
		5	LCH	RB1#0	22.98	18.47	38.5	PASS
				RB1#13	22.71	18.47	38.5	PASS
				RB1#24	23.04	18.73	38.5	PASS
				RB12#0	21.84	17.36	38.5	PASS
				RB12#6	21.81	17.54	38.5	PASS
				RB12#13	21.88	17.39	38.5	PASS
				RB25#0	21.91	17.48	38.5	PASS
			MCH	RB1#0	23.01	18.63	38.5	PASS
				RB1#13	22.7	18.37	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.72	18.50	38.5	PASS
				RB12#0	21.9	17.74	38.5	PASS
				RB12#6	21.85	17.47	38.5	PASS
				RB12#13	21.79	17.50	38.5	PASS
				RB25#0	21.85	17.31	38.5	PASS
			HCH	RB1#0	22.99	18.48	38.5	PASS
				RB1#13	22.63	18.15	38.5	PASS
				RB1#24	22.56	18.38	38.5	PASS
				RB12#0	21.89	17.44	38.5	PASS
				RB12#6	21.79	17.57	38.5	PASS
				RB12#13	21.76	17.28	38.5	PASS
				RB25#0	21.83	17.39	38.5	PASS
		10	LCH	RB1#0	23.05	18.84	38.5	PASS
				RB1#25	23	18.79	38.5	PASS
				RB1#49	23.1	18.78	38.5	PASS
				RB25#0	21.93	17.64	38.5	PASS
				RB25#13	21.87	17.49	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.9	17.54	38.5	PASS
				RB50#0	21.85	17.55	38.5	PASS
			MCH	RB1#0	23.05	18.84	38.5	PASS
				RB1#25	22.97	18.56	38.5	PASS
				RB1#49	23	18.55	38.5	PASS
				RB25#0	21.88	17.38	38.5	PASS
				RB25#13	21.82	17.53	38.5	PASS
				RB25#25	21.8	17.50	38.5	PASS
				RB50#0	21.89	17.64	38.5	PASS
			HCH	RB1#0	22.96	18.41	38.5	PASS
				RB1#25	22.94	18.55	38.5	PASS
				RB1#49	22.98	18.70	38.5	PASS
				RB25#0	21.88	17.50	38.5	PASS
				RB25#13	21.87	17.70	38.5	PASS
				RB25#25	21.76	17.49	38.5	PASS
				RB50#0	21.84	17.38	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.46	18.02	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	22.47	18.30	38.5	PASS
				RB1#5	22.43	18.16	38.5	PASS
				RB3#0	21.97	17.69	38.5	PASS
				RB3#2	21.88	17.59	38.5	PASS
				RB3#3	21.84	17.42	38.5	PASS
				RB6#0	20.8	16.32	38.5	PASS
			MCH	RB1#0	22.25	17.75	38.5	PASS
				RB1#3	22.34	17.85	38.5	PASS
				RB1#5	22.24	17.89	38.5	PASS
				RB3#0	22.15	17.89	38.5	PASS
				RB3#2	21.9	17.45	38.5	PASS
				RB3#3	21.75	17.43	38.5	PASS
				RB6#0	20.63	16.08	38.5	PASS
			HCH	RB1#0	22.05	17.76	38.5	PASS
				RB1#3	22.2	17.79	38.5	PASS
				RB1#5	22.13	17.87	38.5	PASS
				RB3#0	21.9	17.43	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#2	21.86	17.36	38.5	PASS
				RB3#3	21.49	17.02	38.5	PASS
				RB6#0	20.58	16.31	38.5	PASS
		3	LCH	RB1#0	22.23	17.80	38.5	PASS
				RB1#7	22.23	17.85	38.5	PASS
				RB1#14	22.12	17.86	38.5	PASS
				RB8#0	20.73	16.26	38.5	PASS
				RB8#4	20.58	16.15	38.5	PASS
				RB8#7	20.7	16.43	38.5	PASS
				RB15#0	20.62	16.24	38.5	PASS
			MCH	RB1#0	22.07	17.54	38.5	PASS
				RB1#7	22.13	17.93	38.5	PASS
				RB1#14	21.84	17.51	38.5	PASS
				RB8#0	20.78	16.49	38.5	PASS
				RB8#4	20.8	16.60	38.5	PASS
				RB8#7	20.69	16.50	38.5	PASS
				RB15#0	20.69	16.23	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.06	17.68	38.5	PASS
				RB1#7	22.15	17.76	38.5	PASS
				RB1#14	21.63	17.42	38.5	PASS
				RB8#0	20.77	16.46	38.5	PASS
				RB8#4	20.71	16.42	38.5	PASS
				RB8#7	20.64	16.49	38.5	PASS
				RB15#0	20.89	16.53	38.5	PASS
		5	LCH	RB1#0	21.71	17.17	38.5	PASS
				RB1#13	21.64	17.38	38.5	PASS
				RB1#24	21.82	17.30	38.5	PASS
				RB12#0	20.54	16.16	38.5	PASS
				RB12#6	20.49	16.11	38.5	PASS
				RB12#13	20.48	16.17	38.5	PASS
				RB25#0	20.73	16.52	38.5	PASS
			MCH	RB1#0	21.77	17.37	38.5	PASS
				RB1#13	21.7	17.49	38.5	PASS
				RB1#24	21.72	17.55	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#0	20.95	16.68	38.5	PASS
				RB12#6	20.93	16.61	38.5	PASS
				RB12#13	20.94	16.54	38.5	PASS
				RB25#0	20.92	16.66	38.5	PASS
			HCH	RB1#0	21.8	17.37	38.5	PASS
				RB1#13	21.49	17.01	38.5	PASS
				RB1#24	21.59	17.37	38.5	PASS
				RB12#0	20.95	16.53	38.5	PASS
				RB12#6	20.79	16.52	38.5	PASS
				RB12#13	20.71	16.39	38.5	PASS
				RB25#0	20.83	16.45	38.5	PASS
		10	LCH	RB1#0	22.26	17.75	38.5	PASS
				RB1#25	22.2	17.86	38.5	PASS
				RB1#49	22.11	17.76	38.5	PASS
				RB25#0	20.97	16.75	38.5	PASS
				RB25#13	20.8	16.27	38.5	PASS
				RB25#25	20.65	16.43	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.72	16.48	38.5	PASS
				RB1#0	22.1	17.82	38.5	PASS
			MCH	RB1#25	22.21	17.93	38.5	PASS
				RB1#49	22.17	17.78	38.5	PASS
				RB25#0	20.81	16.61	38.5	PASS
				RB25#13	20.79	16.49	38.5	PASS
				RB25#25	20.83	16.63	38.5	PASS
				RB50#0	20.71	16.24	38.5	PASS
			HCH	RB1#0	22.02	17.54	38.5	PASS
				RB1#25	22.23	17.79	38.5	PASS
				RB1#49	22.05	17.64	38.5	PASS
				RB25#0	20.92	16.59	38.5	PASS
				RB25#13	20.82	16.32	38.5	PASS
				RB25#25	20.75	16.21	38.5	PASS
				RB50#0	20.68	16.39	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,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$



$EIRP [dBm] = SGP [dBm] - \text{Cable Loss [dB]} + \text{Gain [dBi]}$

b, SGP=Signal Generator Level

Note2: $RBW > \text{emission bandwidth}$, $VBW > 3 \times RBW$.

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB1#0	3.78	13	PASS
				RB1#3	3.71	13	PASS
				RB1#5	3.83	13	PASS
				RB3#0	4.14	13	PASS
				RB3#2	4.06	13	PASS
				RB3#3	4.2	13	PASS
				RB6#0	5.37	13	PASS
			MCH	RB1#0	3.95	13	PASS
				RB1#3	3.96	13	PASS
				RB1#5	4.05	13	PASS
				RB3#0	4.35	13	PASS
				RB3#2	4.33	13	PASS
				RB3#3	4.39	13	PASS
				RB6#0	5.47	13	PASS
			HCH	RB1#0	3.55	13	PASS
				RB1#3	3.59	13	PASS
				RB1#5	3.68	13	PASS
				RB3#0	4.03	13	PASS
				RB3#2	3.83	13	PASS
				RB3#3	3.94	13	PASS
				RB6#0	5.13	13	PASS
		3	LCH	RB1#0	3.85	13	PASS
				RB1#7	3.87	13	PASS
				RB1#14	3.93	13	PASS
				RB8#0	4.75	13	PASS
				RB8#4	4.67	13	PASS
				RB8#7	4.8	13	PASS
				RB15#0	5.31	13	PASS
			MCH	RB1#0	4.11	13	PASS
				RB1#7	4.06	13	PASS
				RB1#14	4.14	13	PASS
				RB8#0	4.98	13	PASS
				RB8#4	4.87	13	PASS
				RB8#7	4.94	13	PASS
				RB15#0	5.19	13	PASS
			HCH	RB1#0	3.76	13	PASS
				RB1#7	3.64	13	PASS
				RB1#14	3.62	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	4.69	13	PASS
				RB8#4	4.61	13	PASS
				RB8#7	4.69	13	PASS
				RB15#0	5.3	13	PASS
		5	LCH	RB1#0	3.98	13	PASS
				RB1#13	3.84	13	PASS
				RB1#24	3.89	13	PASS
				RB12#0	4.7	13	PASS
				RB12#6	4.58	13	PASS
				RB12#13	4.72	13	PASS
				RB25#0	5.18	13	PASS
			MCH	RB1#0	4.18	13	PASS
				RB1#13	4.09	13	PASS
				RB1#24	4.06	13	PASS
				RB12#0	4.91	13	PASS
				RB12#6	4.76	13	PASS
				RB12#13	4.83	13	PASS
				RB25#0	5.26	13	PASS
			HCH	RB1#0	3.74	13	PASS
				RB1#13	3.66	13	PASS
				RB1#24	3.66	13	PASS
				RB12#0	4.6	13	PASS
				RB12#6	4.46	13	PASS
				RB12#13	4.59	13	PASS
				RB25#0	4.98	13	PASS
		10	LCH	RB1#0	3.86	13	PASS
				RB1#25	3.91	13	PASS
				RB1#49	4.04	13	PASS
				RB25#0	4.77	13	PASS
				RB25#13	4.68	13	PASS
				RB25#25	4.77	13	PASS
				RB50#0	5.34	13	PASS
			MCH	RB1#0	3.78	13	PASS
				RB1#25	4.1	13	PASS
				RB1#49	4.02	13	PASS
				RB25#0	4.89	13	PASS
				RB25#13	4.9	13	PASS
				RB25#25	4.91	13	PASS
				RB50#0	5.69	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2		HCH	RB1#0	4.05	13	PASS
				RB1#25	3.73	13	PASS
				RB1#49	3.69	13	PASS
				RB25#0	4.68	13	PASS
				RB25#13	4.64	13	PASS
				RB25#25	4.62	13	PASS
				RB50#0	5.2	13	PASS
		1.4	LCH	RB1#0	4.55	13	PASS
				RB1#3	4.54	13	PASS
				RB1#5	4.57	13	PASS
				RB3#0	4.94	13	PASS
				RB3#2	4.87	13	PASS
				RB3#3	5.01	13	PASS
				RB6#0	5.67	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#3	4.81	13	PASS
				RB1#5	4.86	13	PASS
				RB3#0	5.2	13	PASS
				RB3#2	5.13	13	PASS
				RB3#3	5.22	13	PASS
				RB6#0	6.06	13	PASS
			HCH	RB1#0	4.34	13	PASS
				RB1#3	4.26	13	PASS
				RB1#5	4.24	13	PASS
				RB3#0	4.76	13	PASS
				RB3#2	4.67	13	PASS
				RB3#3	4.77	13	PASS
				RB6#0	5.5	13	PASS
		3	LCH	RB1#0	4.64	13	PASS
				RB1#7	4.69	13	PASS
				RB1#14	4.83	13	PASS
				RB8#0	5.57	13	PASS
				RB8#4	5.52	13	PASS
				RB8#7	5.58	13	PASS
				RB15#0	6.13	13	PASS
			MCH	RB1#0	4.94	13	PASS
				RB1#7	4.75	13	PASS
				RB1#14	4.93	13	PASS
				RB8#0	5.8	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	5.65	13	PASS
				RB8#7	5.72	13	PASS
				RB15#0	6.37	13	PASS
			HCH	RB1#0	4.54	13	PASS
				RB1#7	4.38	13	PASS
				RB1#14	4.62	13	PASS
				RB8#0	5.46	13	PASS
				RB8#4	5.39	13	PASS
				RB8#7	5.51	13	PASS
				RB15#0	6.15	13	PASS
		5	LCH	RB1#0	4.97	13	PASS
				RB1#13	5.02	13	PASS
				RB1#24	5.02	13	PASS
				RB12#0	5.64	13	PASS
				RB12#6	5.56	13	PASS
				RB12#13	5.66	13	PASS
				RB25#0	6.24	13	PASS
			MCH	RB1#0	5.1	13	PASS
				RB1#13	5.22	13	PASS
				RB1#24	5.24	13	PASS
				RB12#0	5.85	13	PASS
				RB12#6	5.71	13	PASS
				RB12#13	5.75	13	PASS
				RB25#0	6.19	13	PASS
			HCH	RB1#0	4.88	13	PASS
				RB1#13	4.87	13	PASS
				RB1#24	4.9	13	PASS
				RB12#0	5.53	13	PASS
				RB12#6	5.44	13	PASS
				RB12#13	5.55	13	PASS
				RB25#0	6.09	13	PASS
		10	LCH	RB1#0	4.92	13	PASS
				RB1#25	4.67	13	PASS
				RB1#49	4.89	13	PASS
				RB25#0	5.77	13	PASS
				RB25#13	5.63	13	PASS
				RB25#25	5.83	13	PASS
				RB50#0	6.43	13	PASS
			MCH	RB1#0	4.77	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#25	4.97	13	PASS
				RB1#49	4.93	13	PASS
				RB25#0	6.02	13	PASS
				RB25#13	5.85	13	PASS
				RB25#25	5.94	13	PASS
				RB50#0	6.26	13	PASS
			HCH	RB1#0	5.12	13	PASS
				RB1#25	4.56	13	PASS
				RB1#49	4.43	13	PASS
				RB25#0	5.83	13	PASS
				RB25#13	5.58	13	PASS
				RB25#25	5.62	13	PASS
				RB50#0	6.47	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

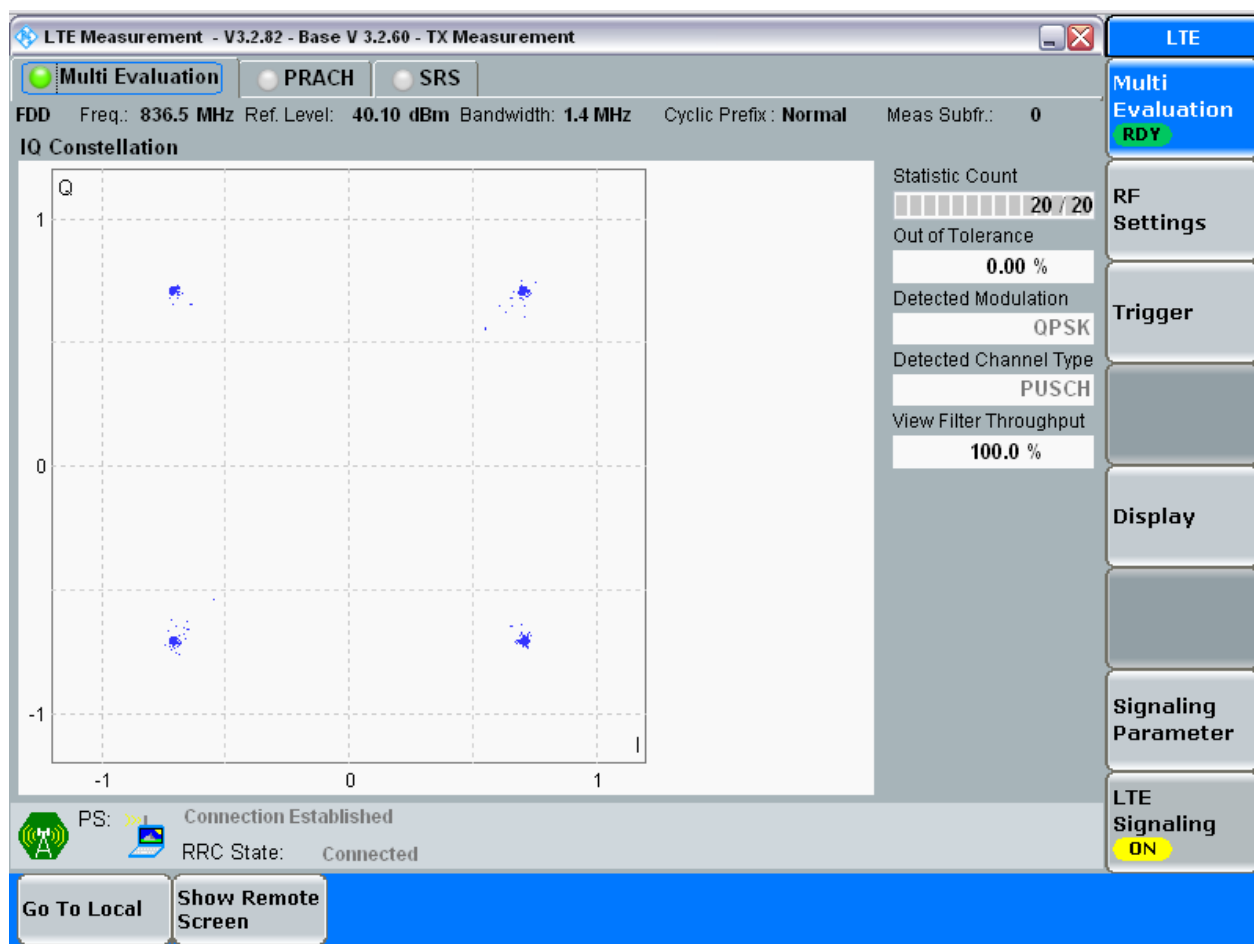
3.1.1 Test Band = BAND5

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

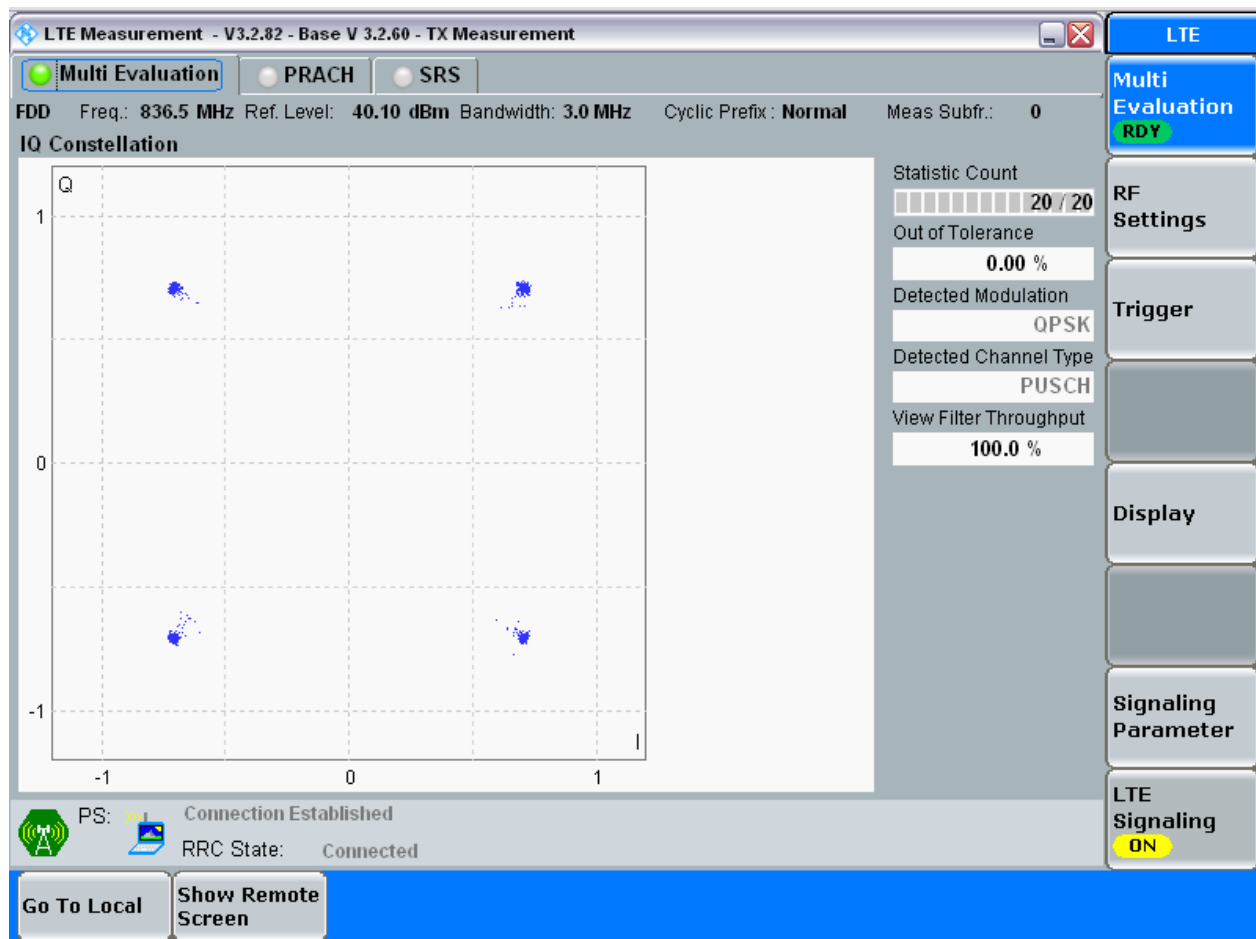
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

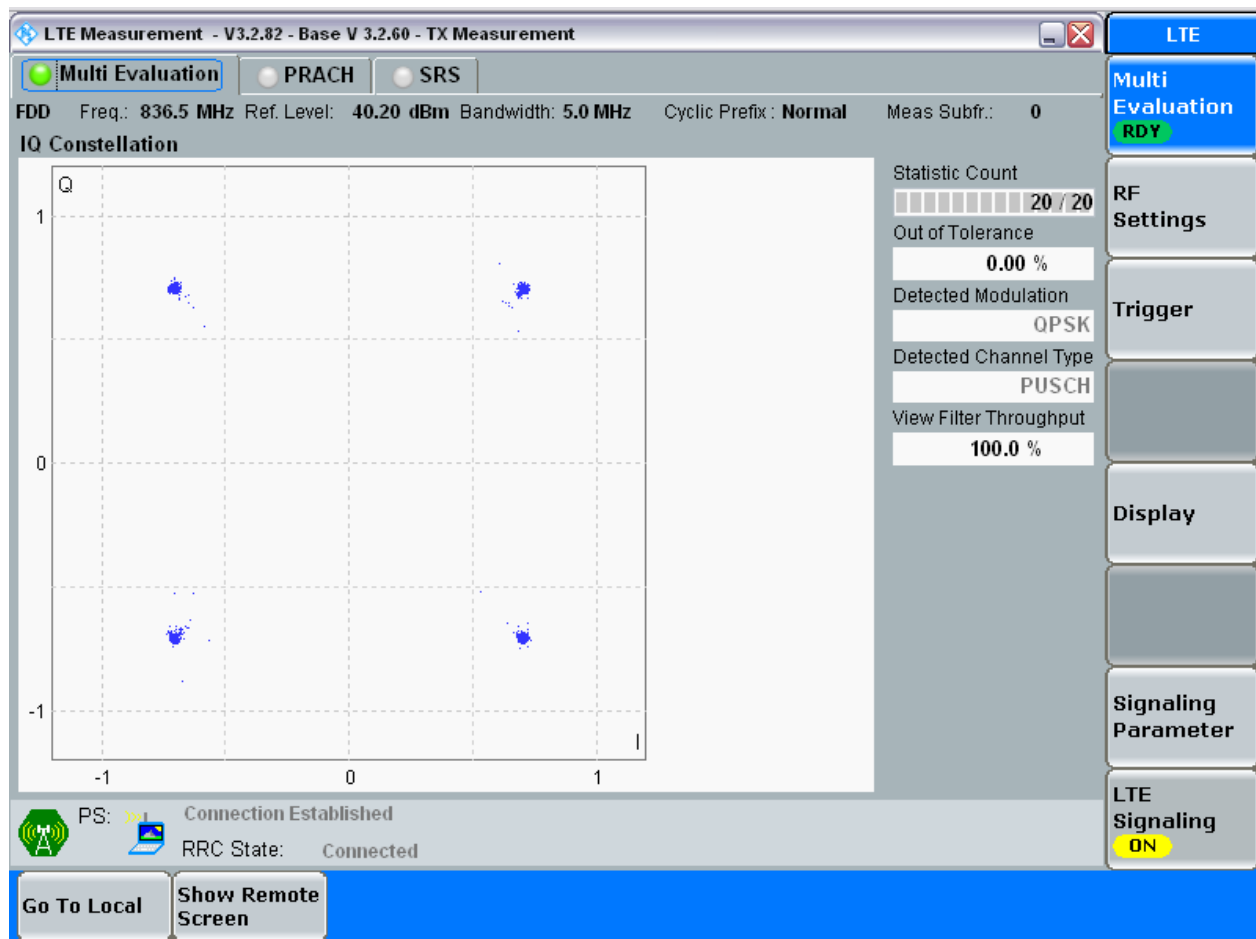
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

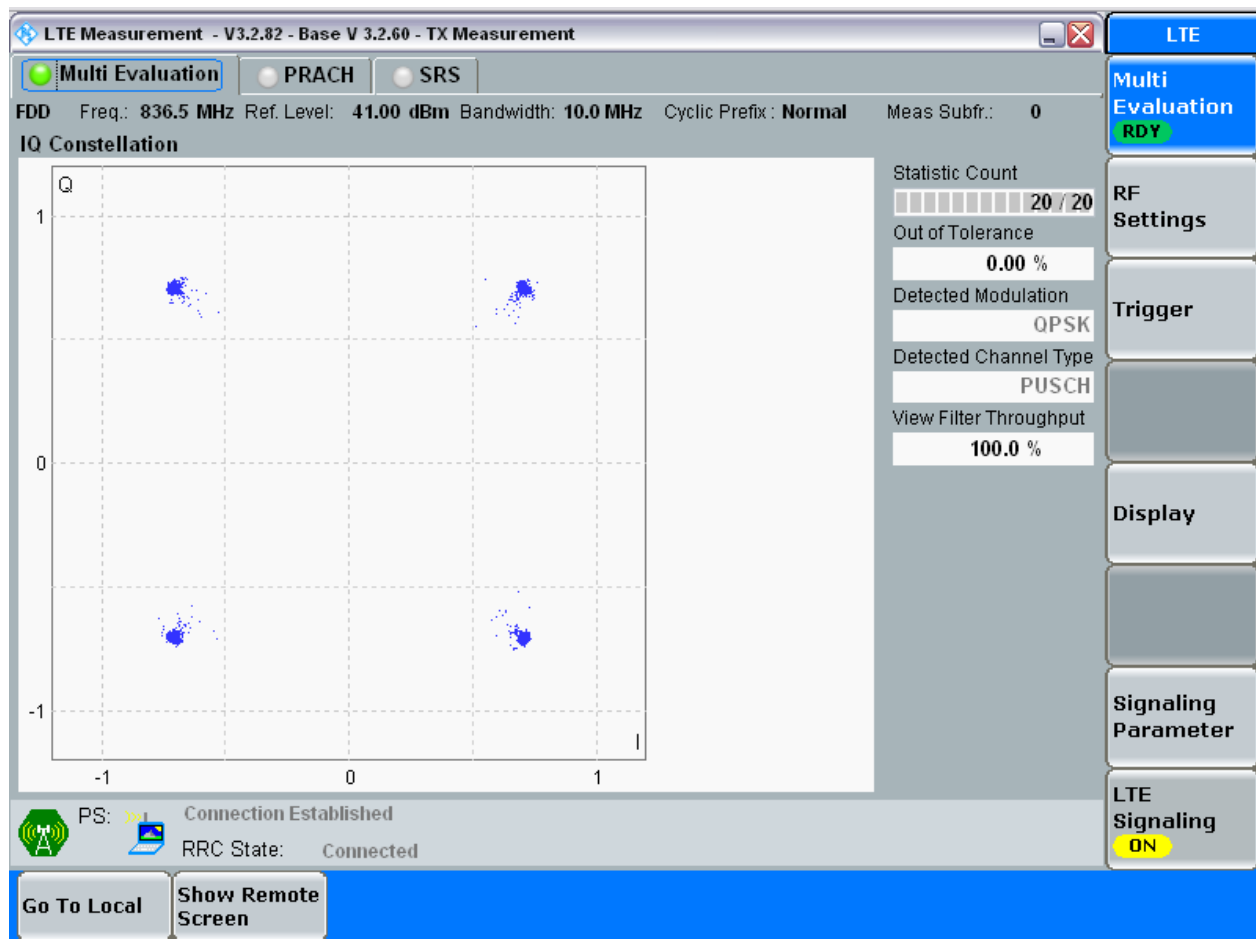
3.1.1.1.3.1.1 Test RB = RB25#0



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

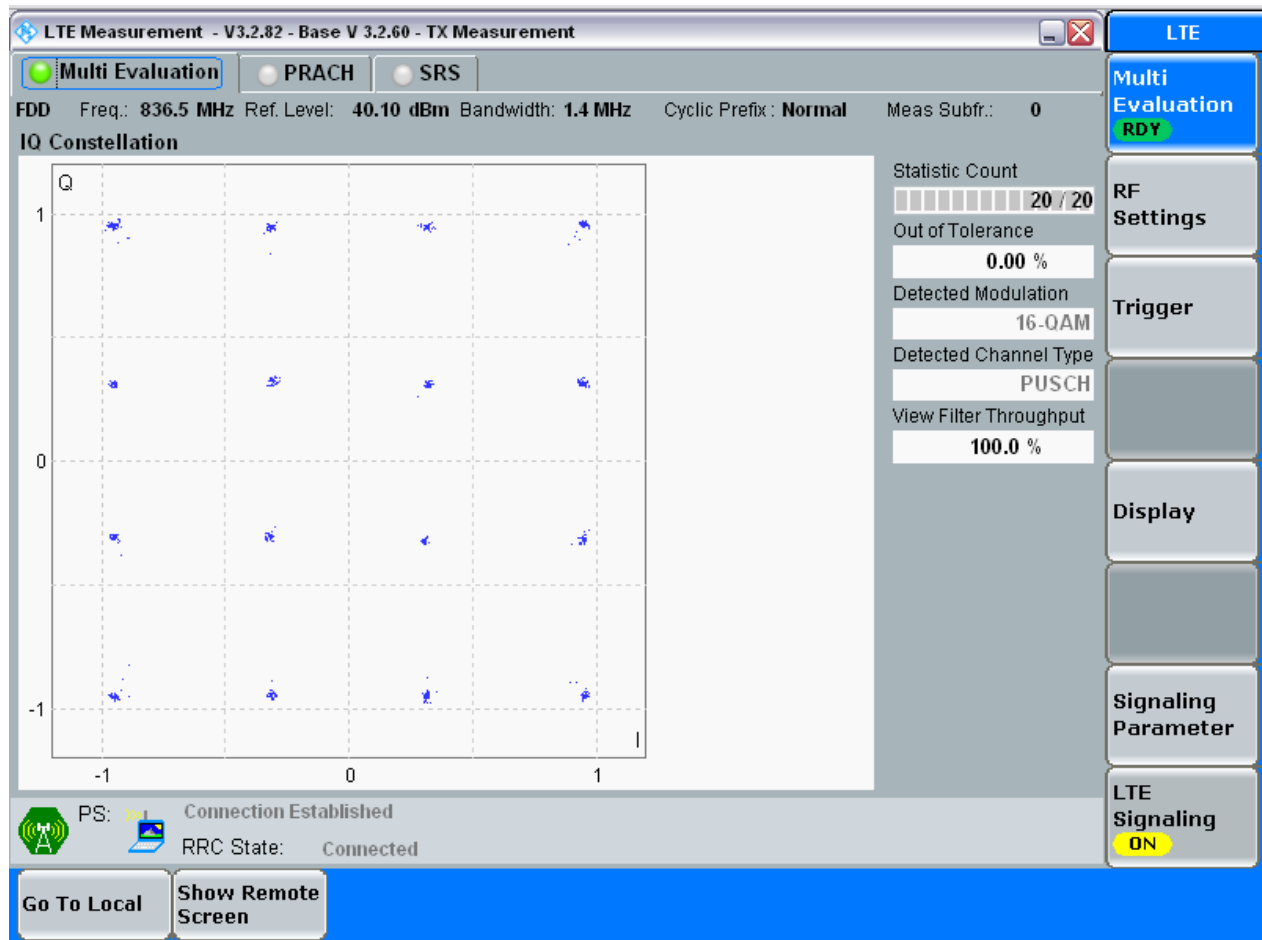


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

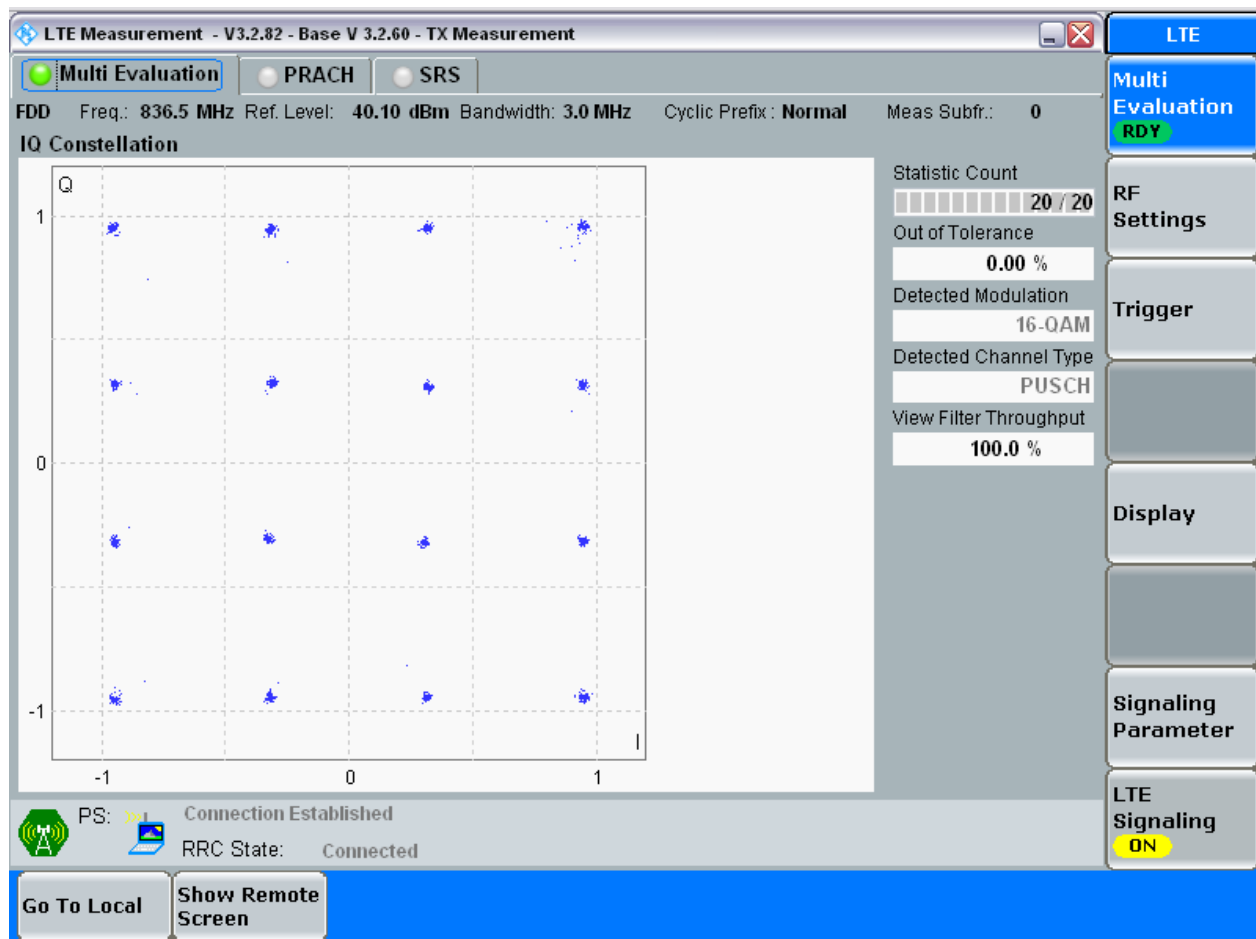
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

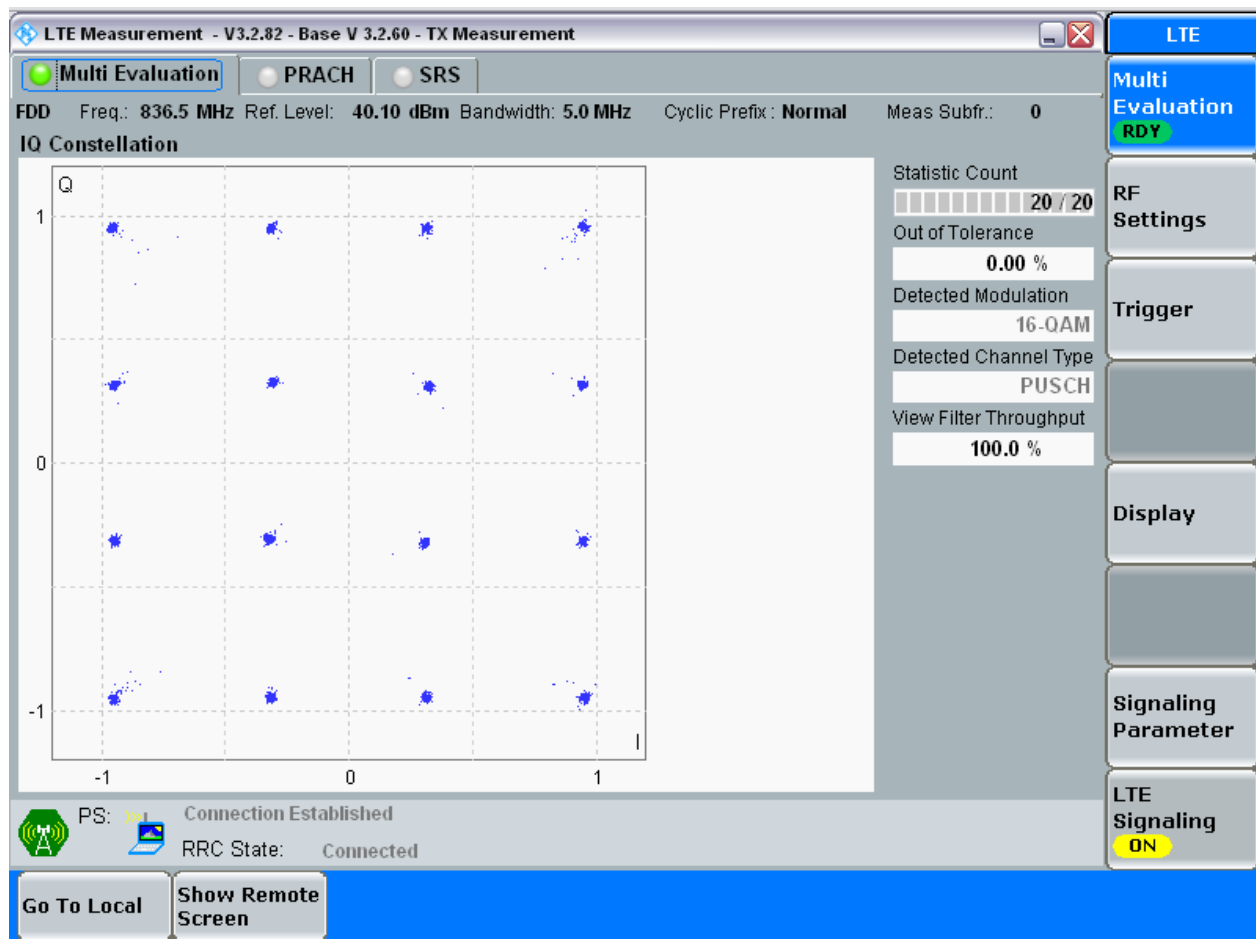
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

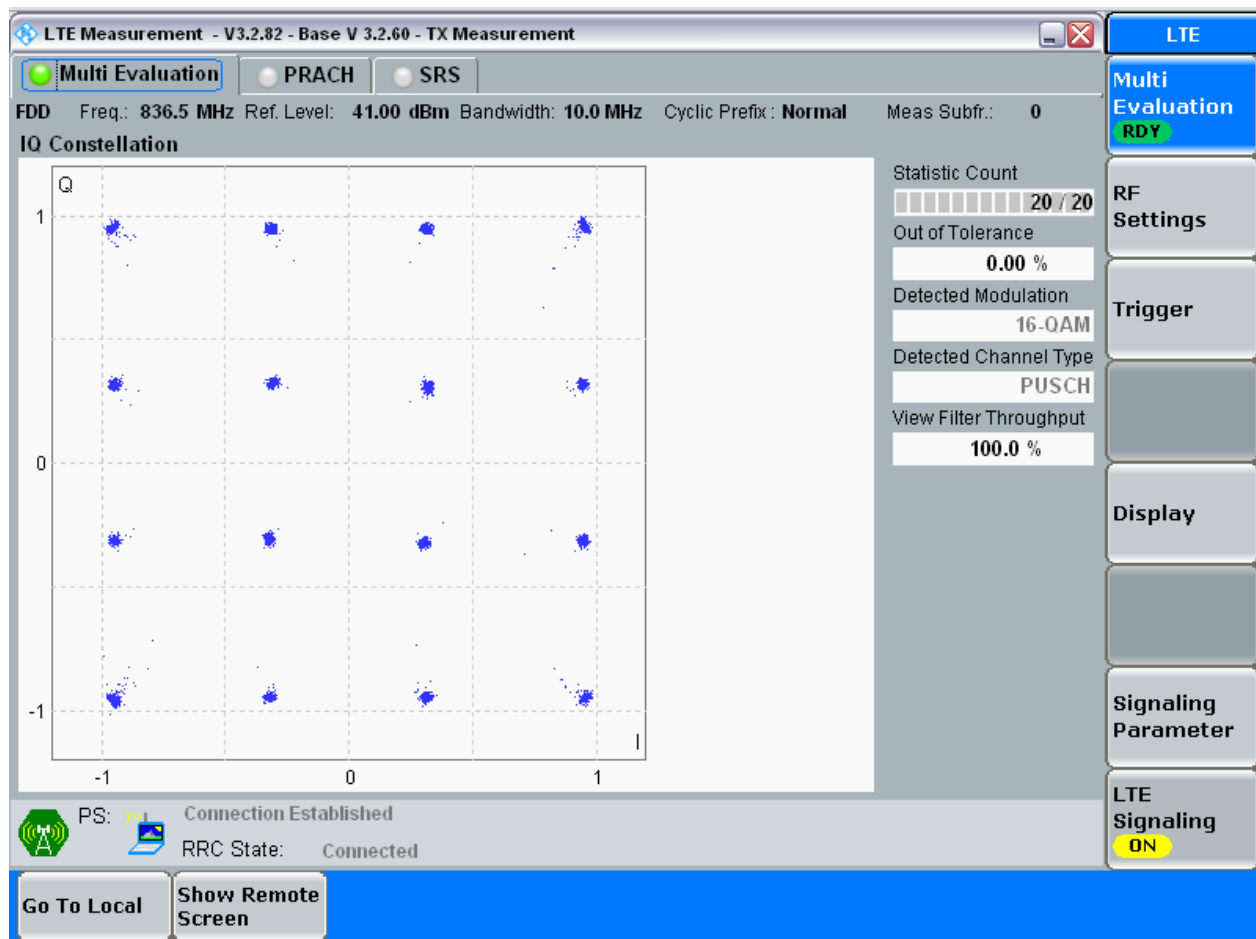
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.09	1.26	Pass
			MCH	RB6#0	1.09	1.26	Pass
			HCH	RB6#0	1.09	1.26	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.93	Pass
			HCH	RB15#0	2.70	2.94	Pass
		5	LCH	RB25#0	4.51	4.89	Pass
			MCH	RB25#0	4.50	4.90	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	9.00	9.59	Pass
			MCH	RB50#0	9.01	9.64	Pass
			HCH	RB50#0	8.99	9.60	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.09	1.27	Pass
			HCH	RB6#0	1.09	1.27	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.95	Pass
			HCH	RB15#0	2.70	2.93	Pass
		5	LCH	RB25#0	4.51	4.90	Pass
			MCH	RB25#0	4.51	4.87	Pass
			HCH	RB25#0	4.51	4.87	Pass
		10	LCH	RB50#0	8.99	9.60	Pass
			MCH	RB50#0	9.01	9.63	Pass
			HCH	RB50#0	8.99	9.60	Pass



Part II - Test Plots

4.1 For LTE

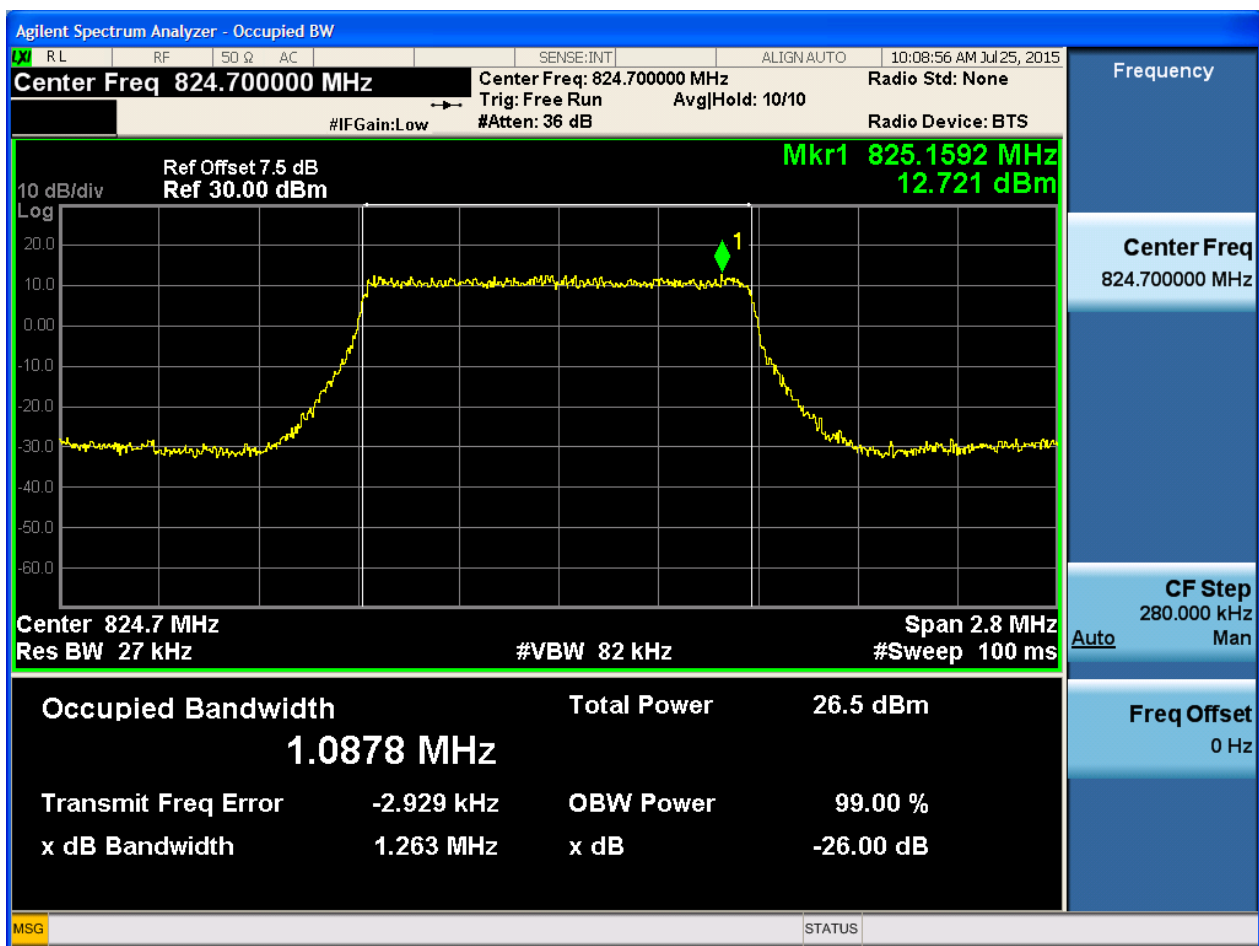
4.1.1 Test Band = BAND5

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

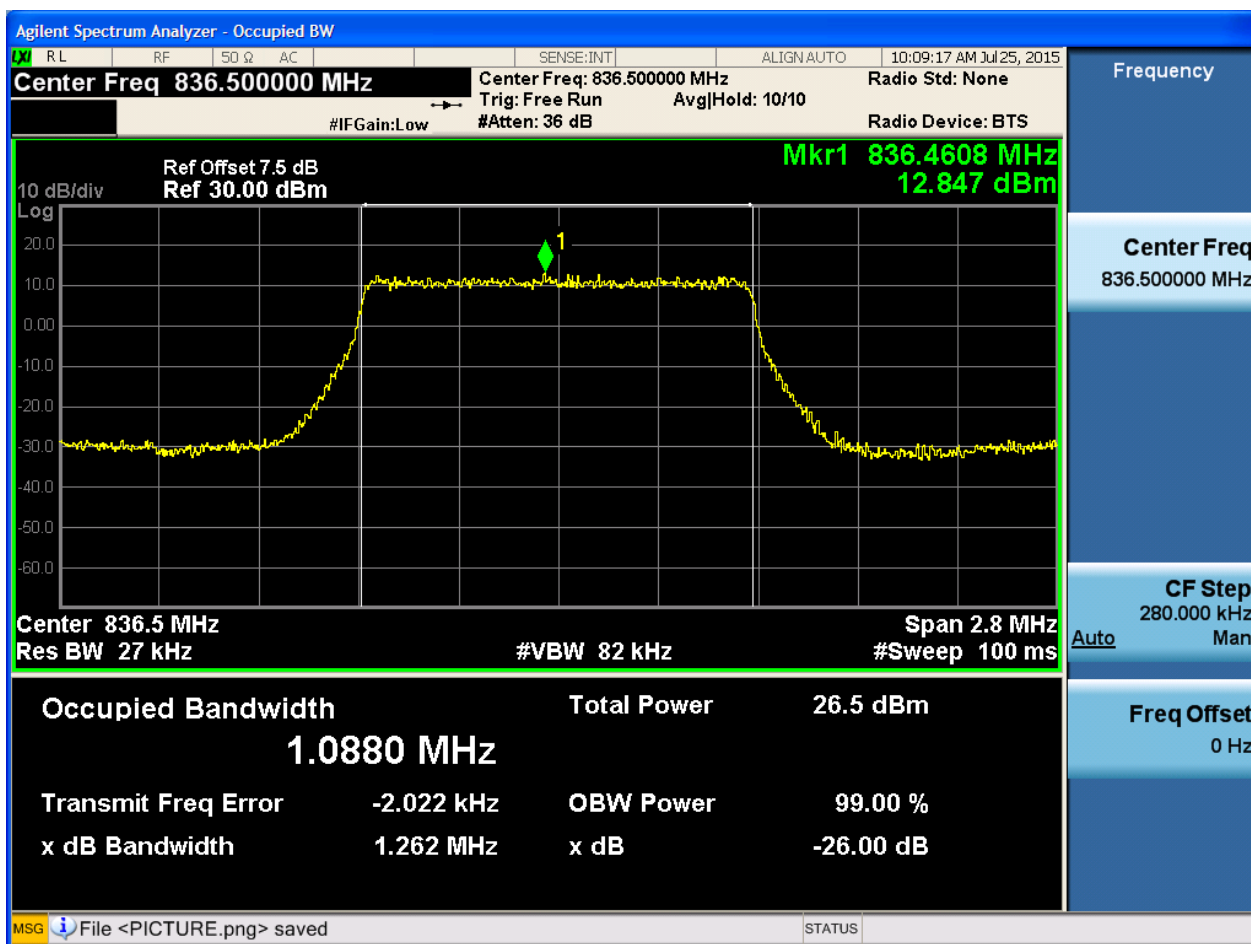
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB6#0



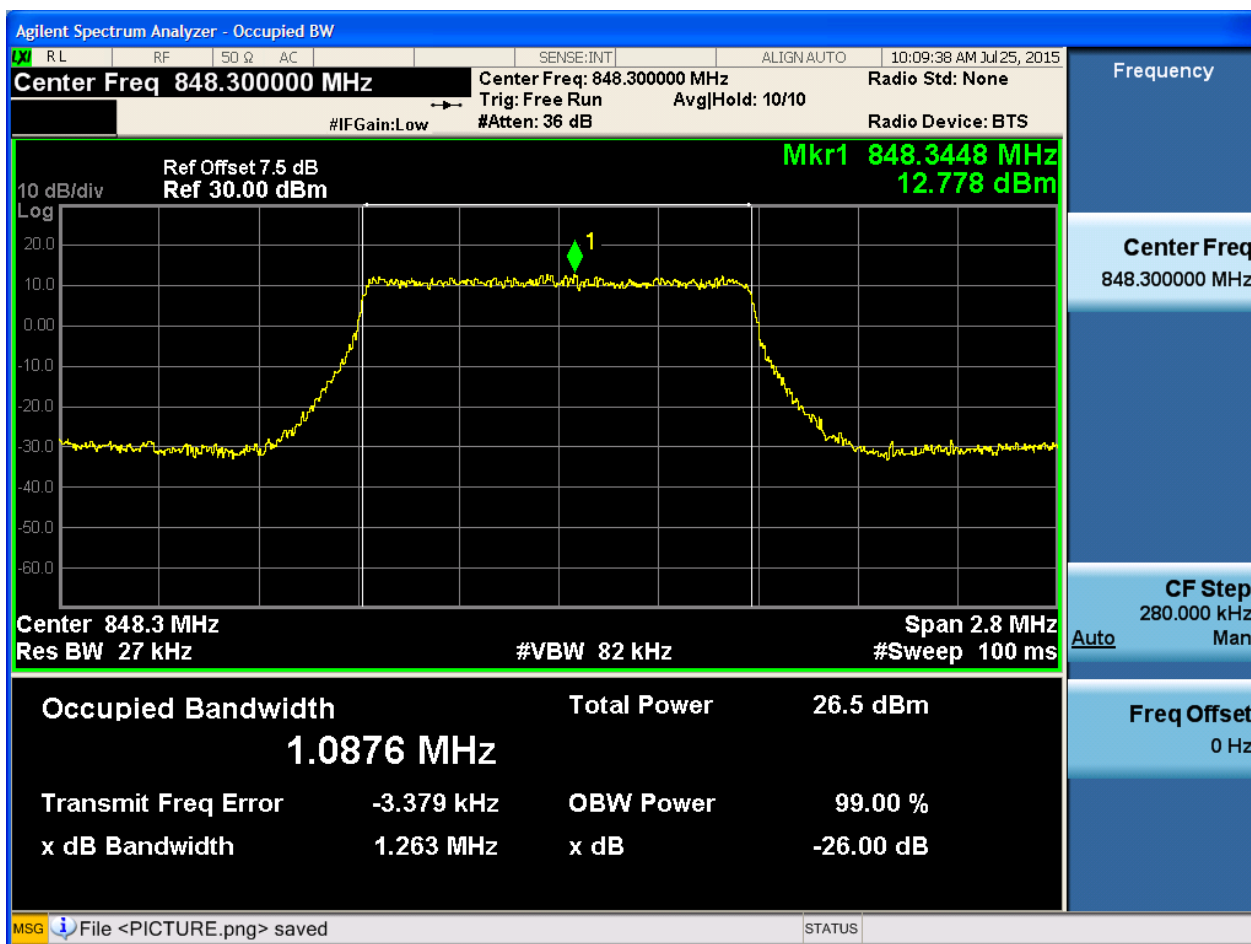
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

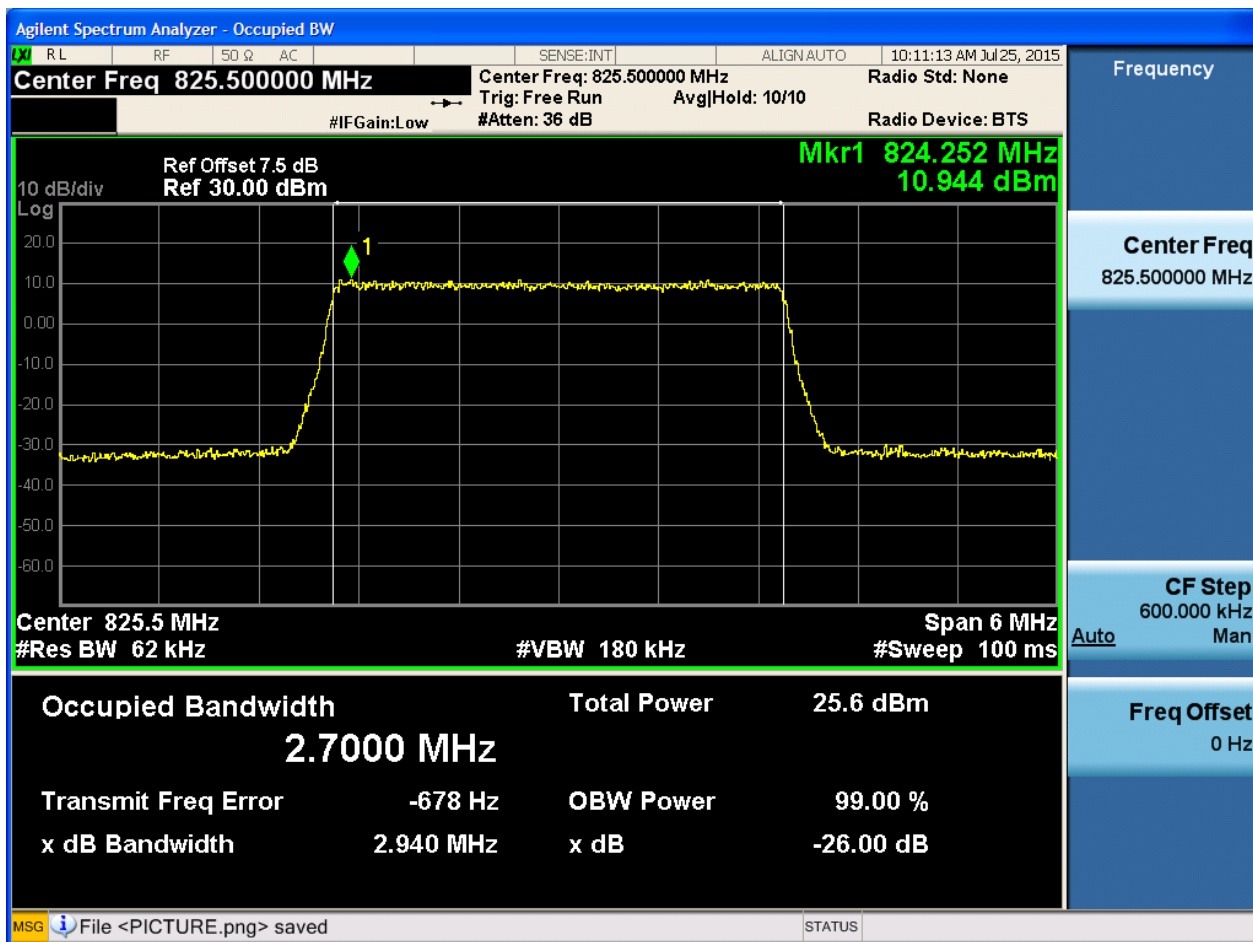




4.1.1.1.2 Test Bandwidth = 3

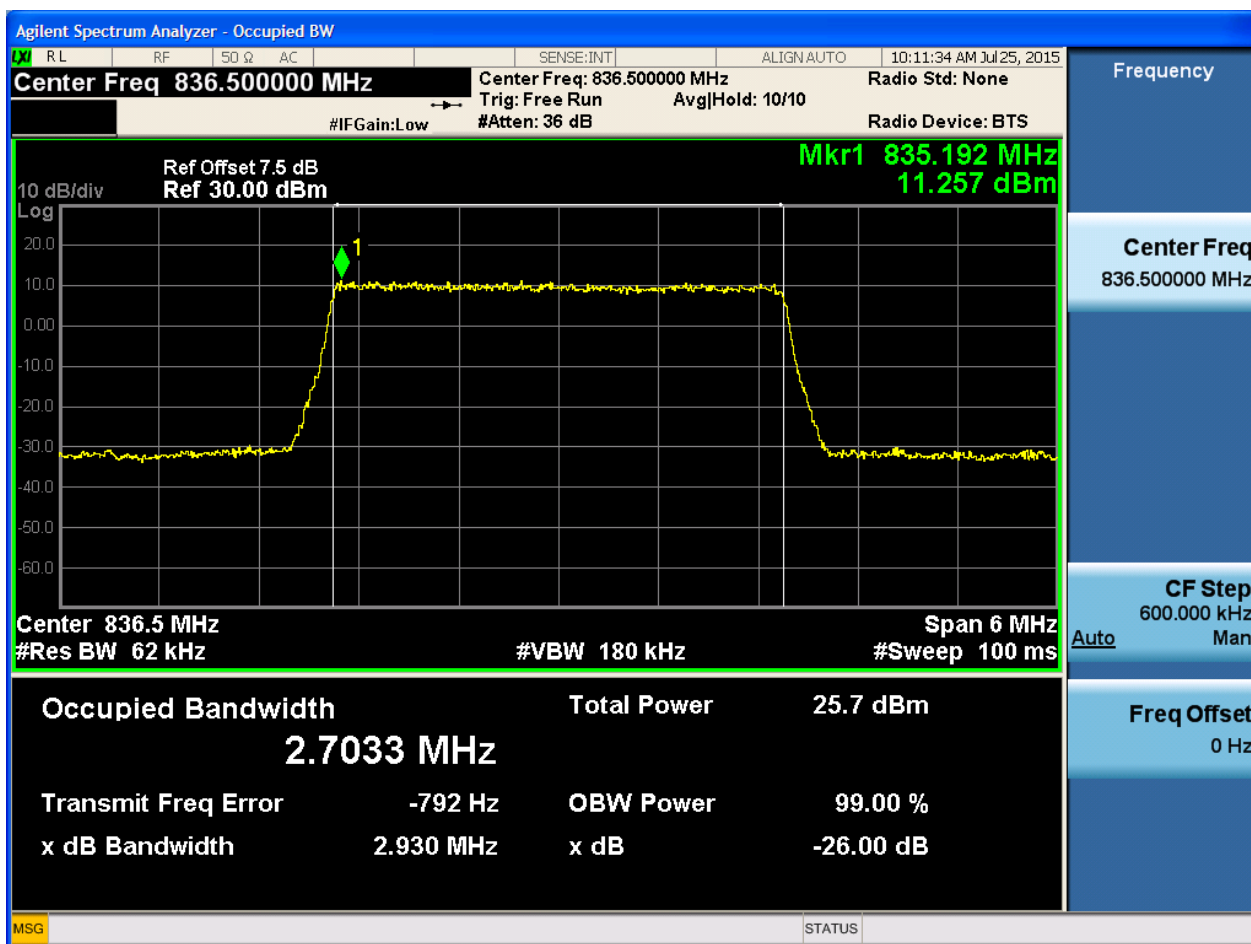
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



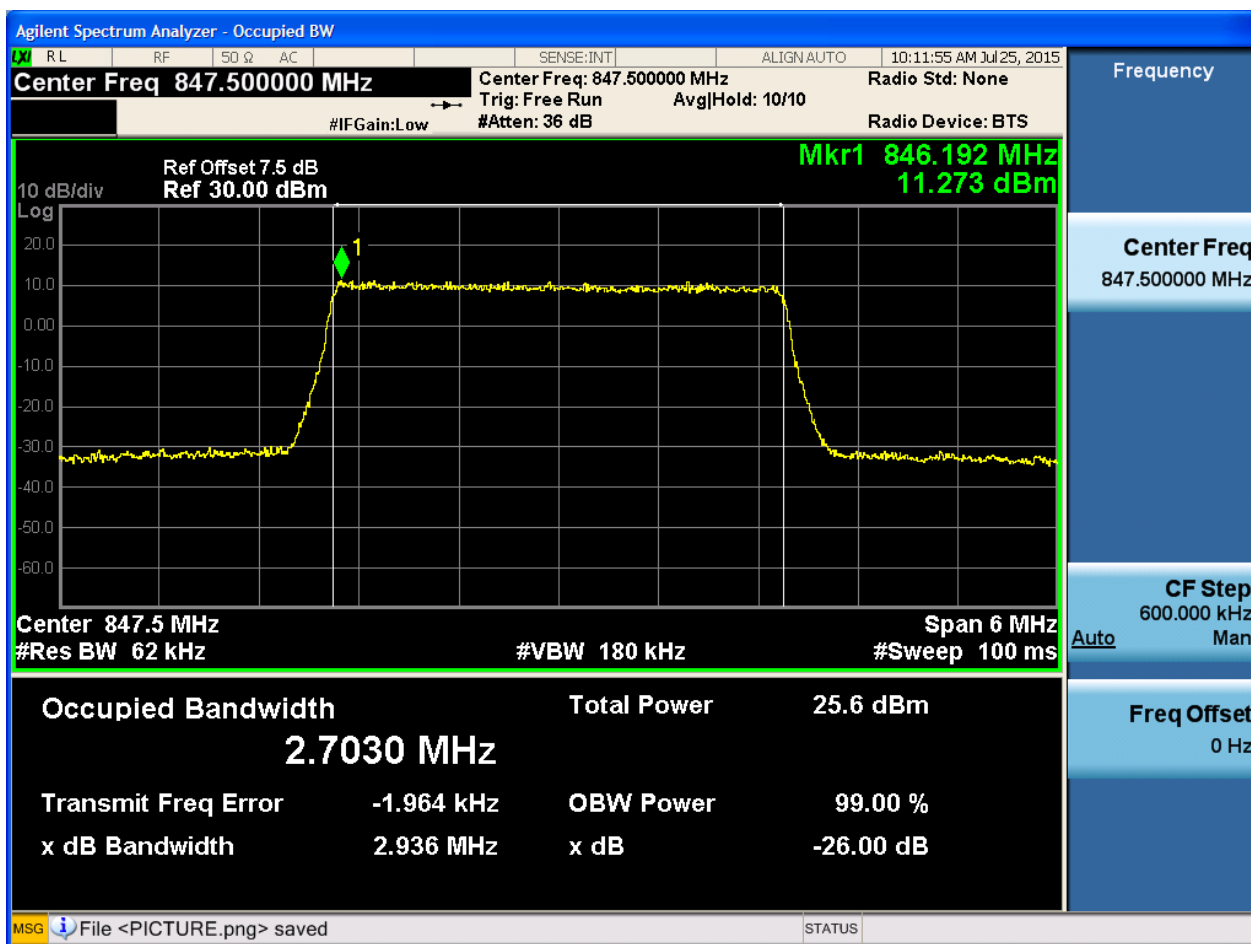
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0



4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

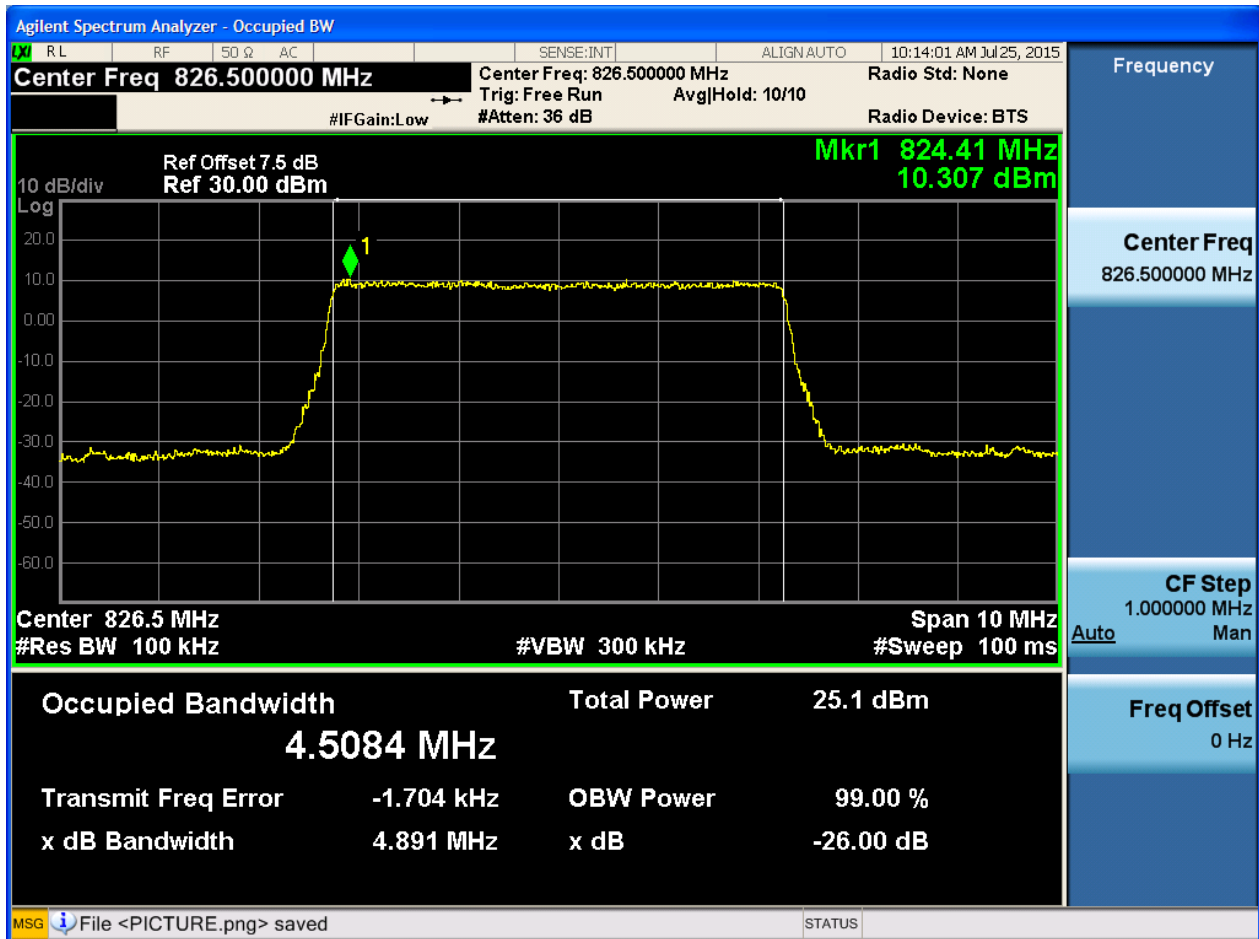




4.1.1.1.3 Test Bandwidth = 5

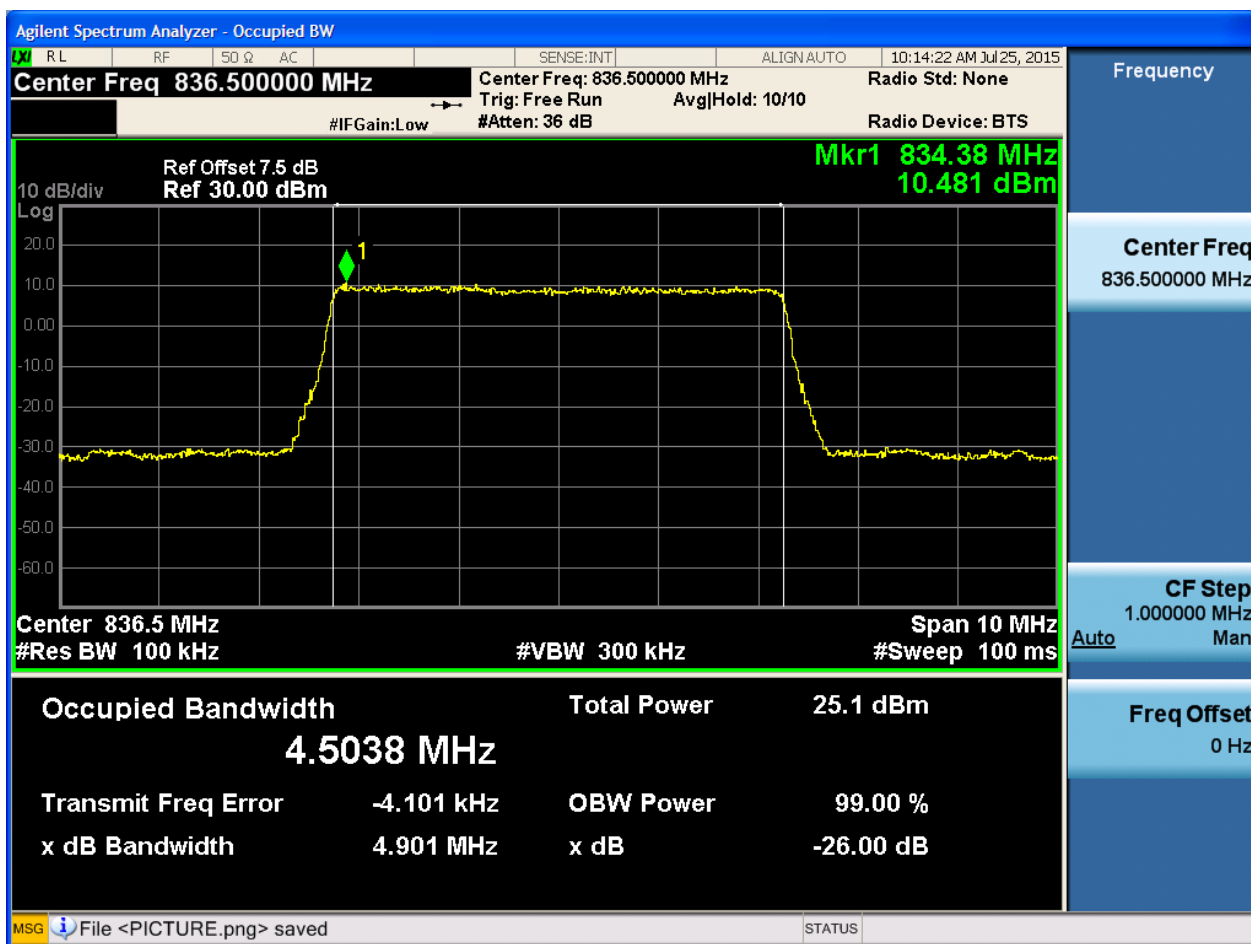
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



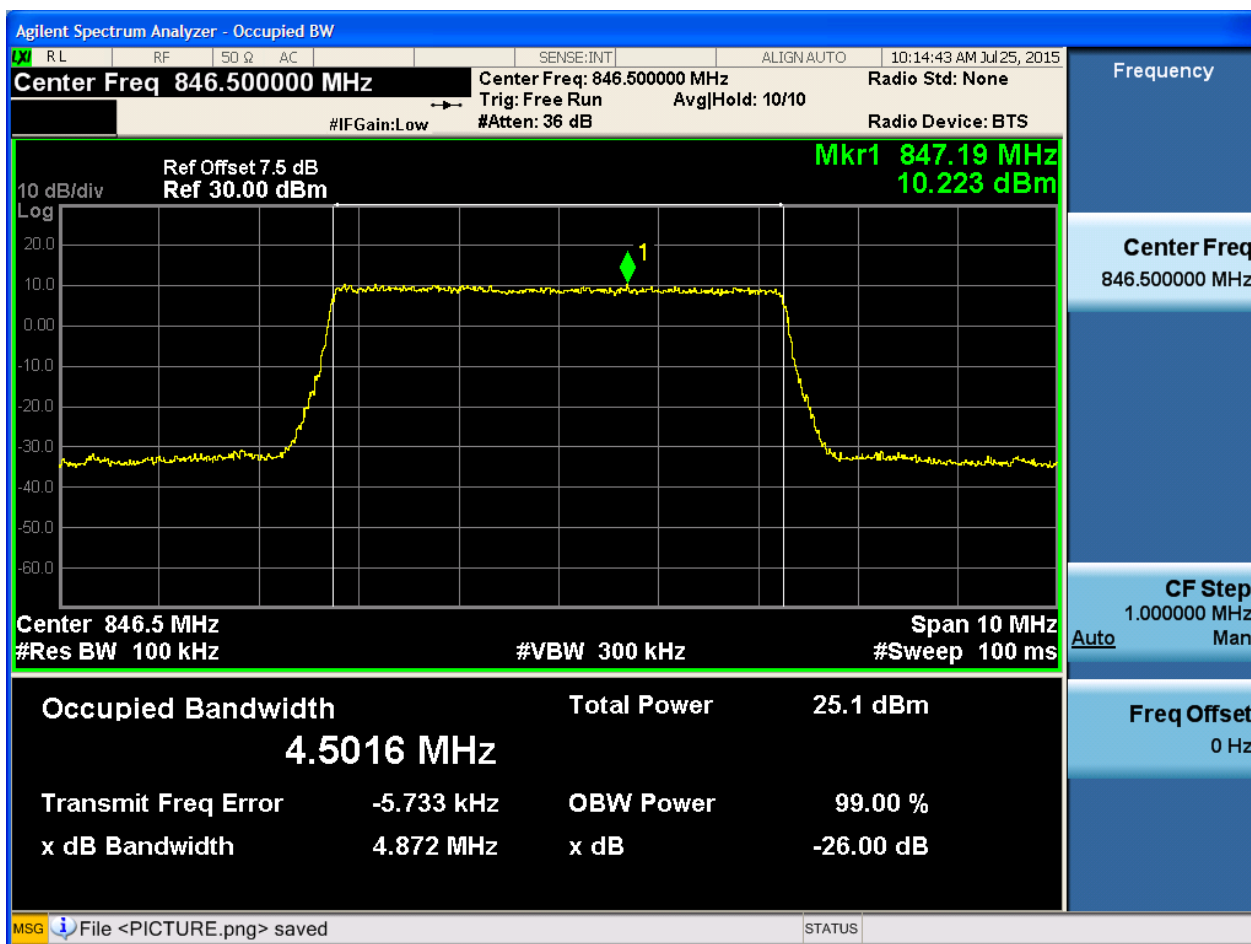
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB25#0



4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

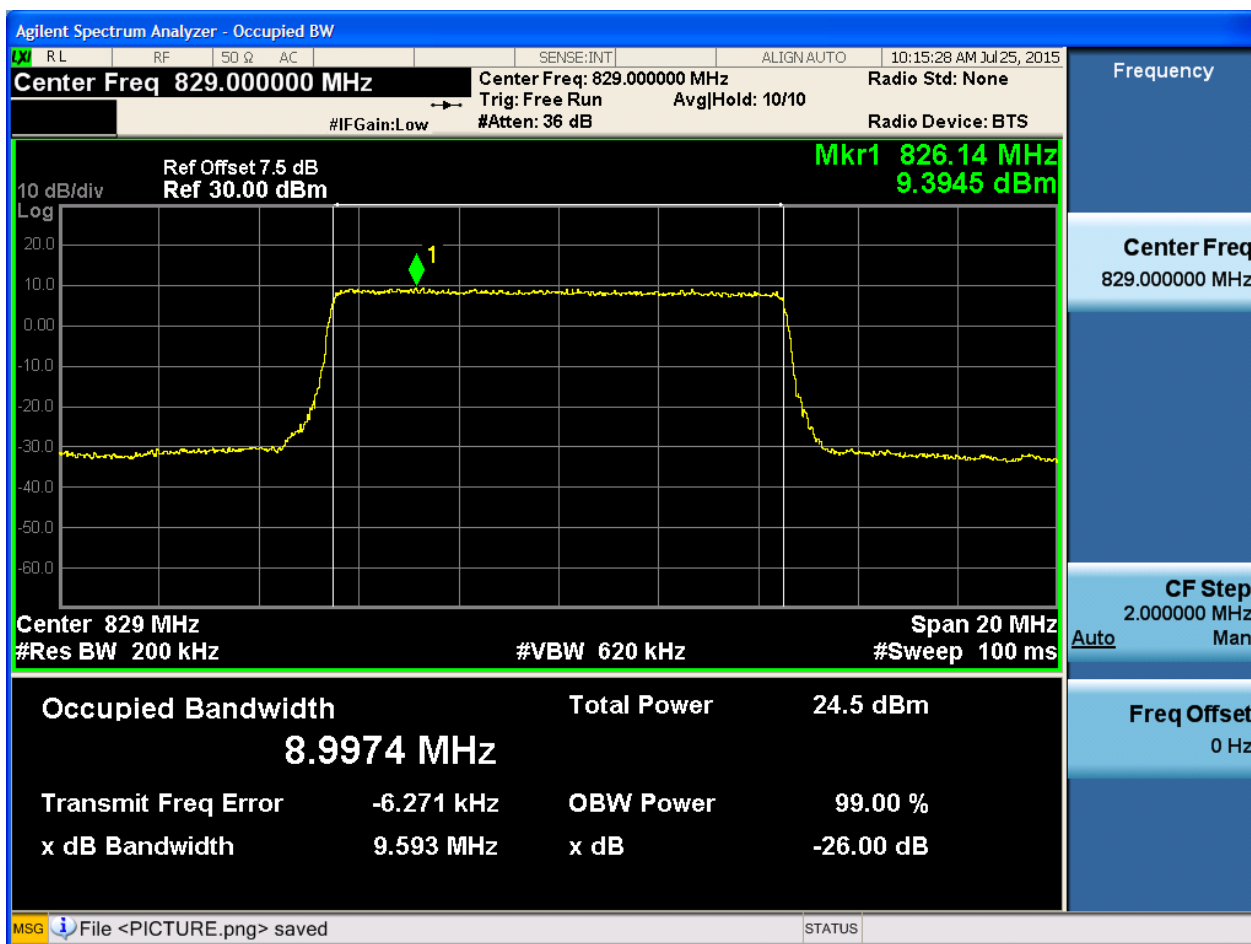




4.1.1.1.4 Test Bandwidth = 10

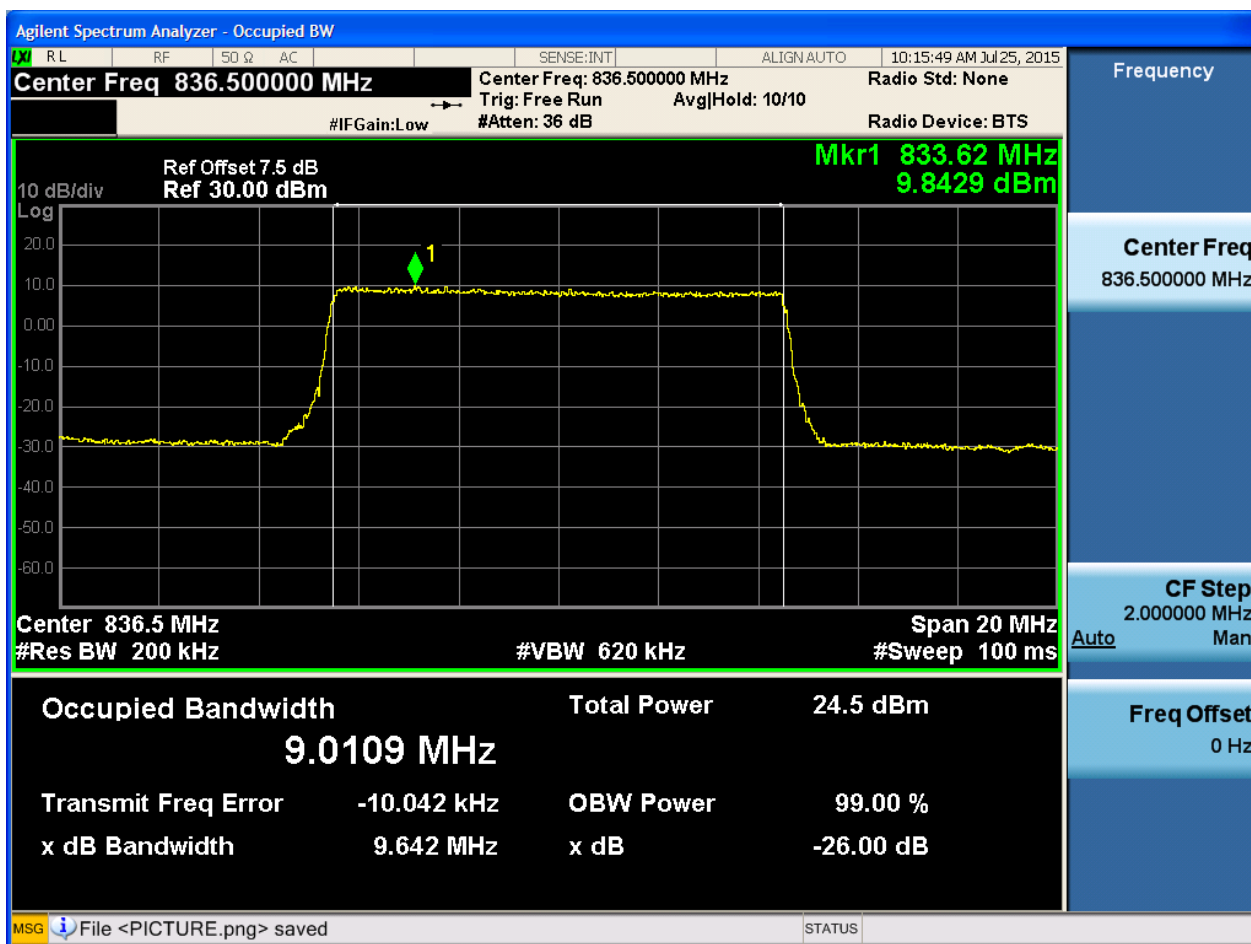
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



4.1.1.1.4.2 Test Channel = MCH

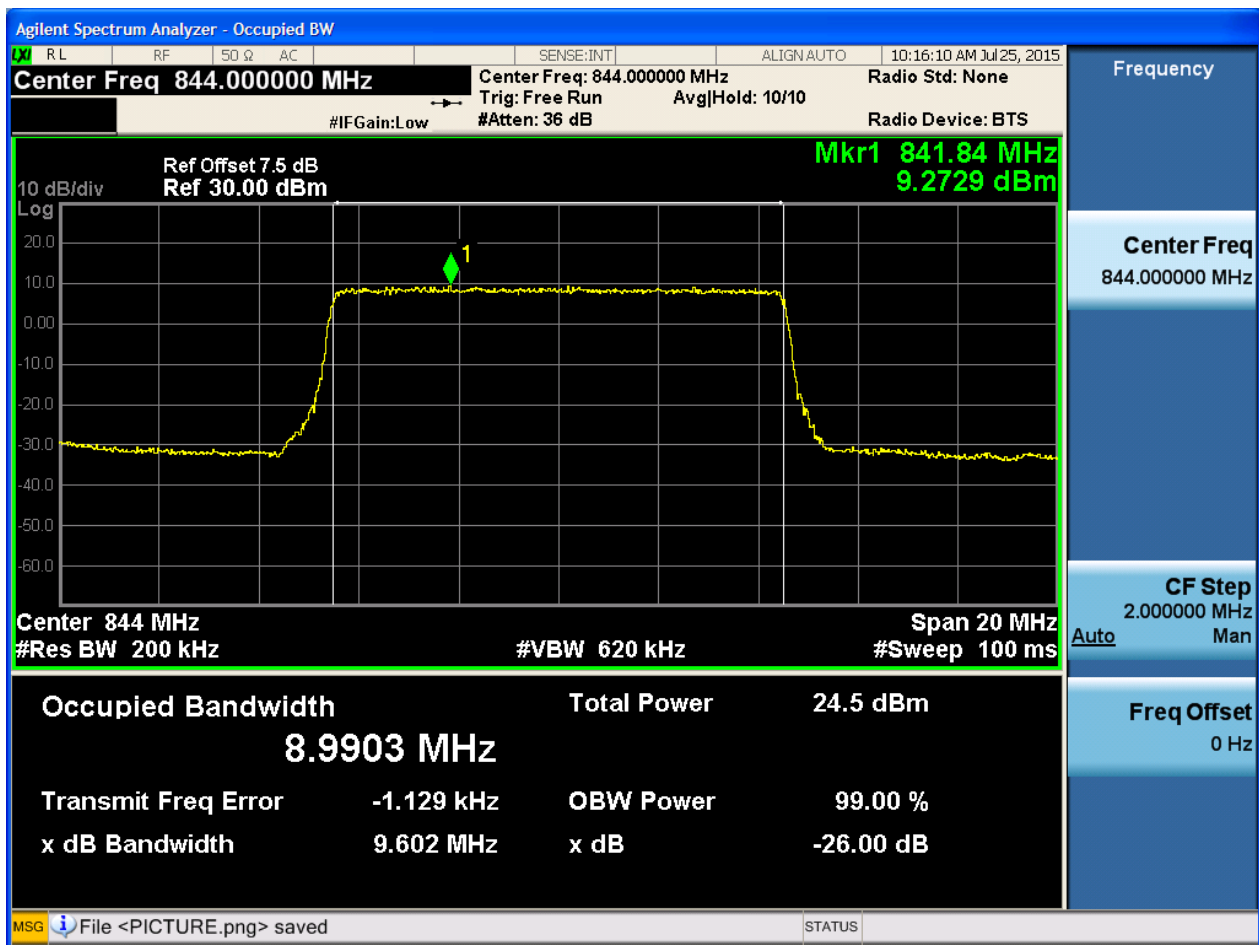
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



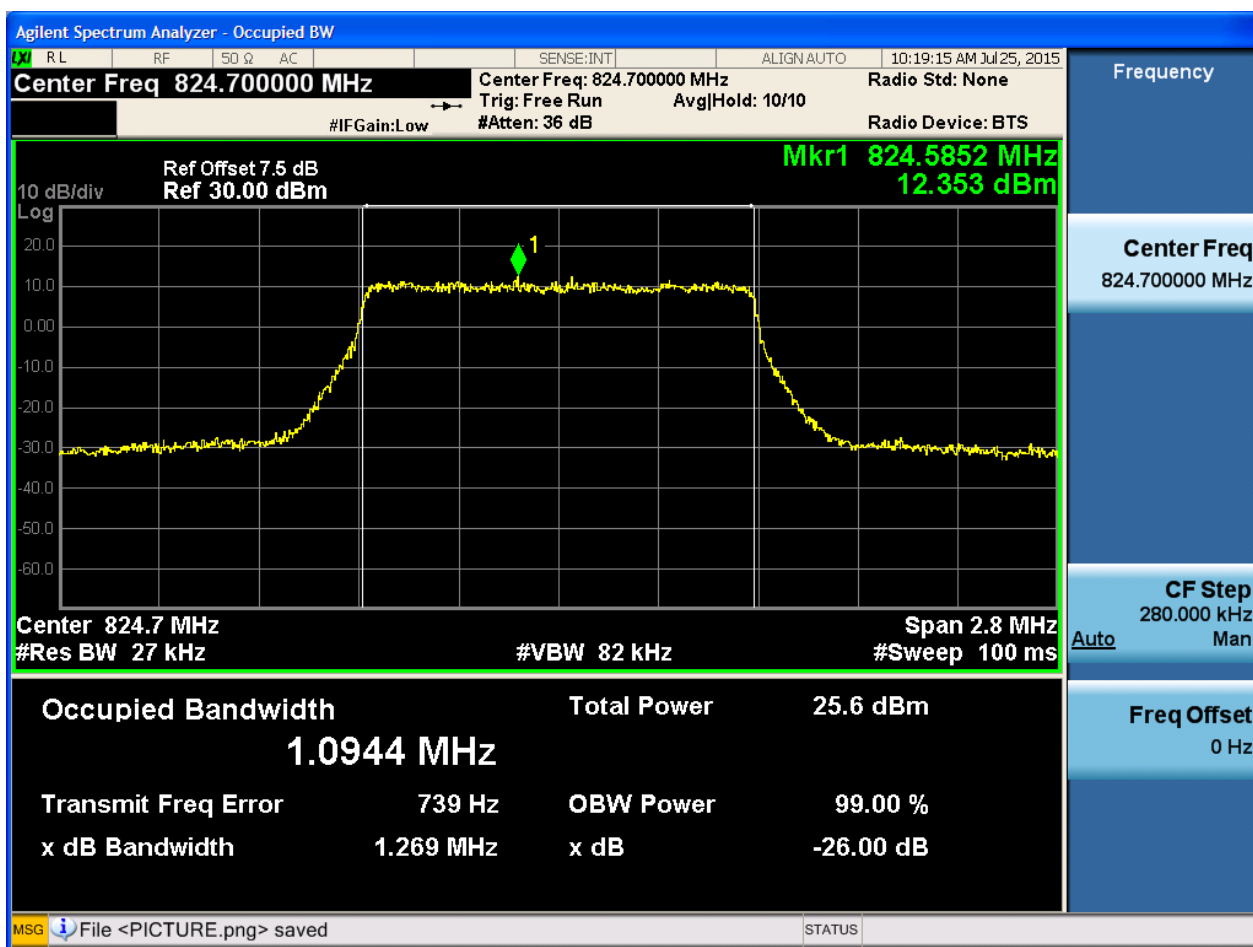


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

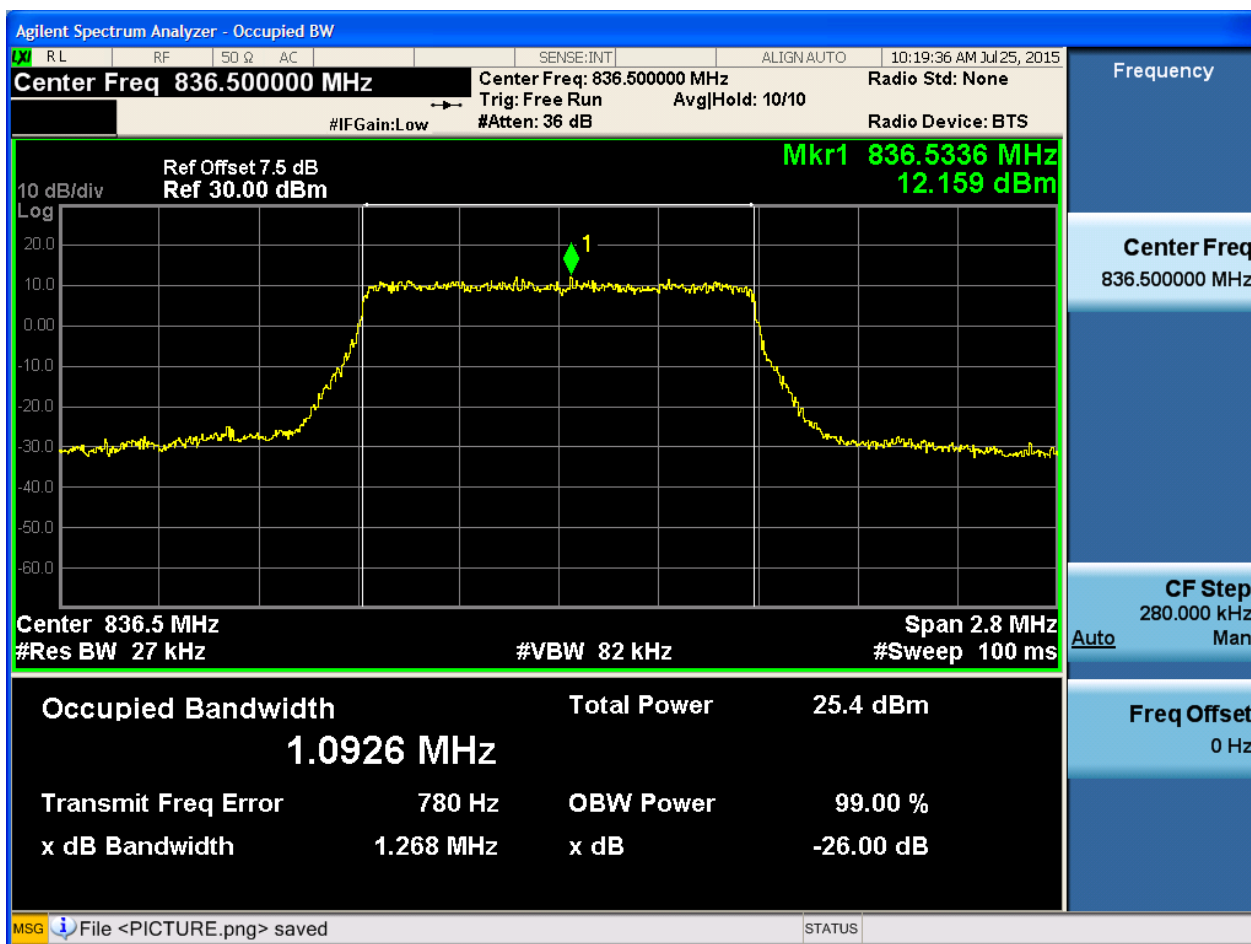
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



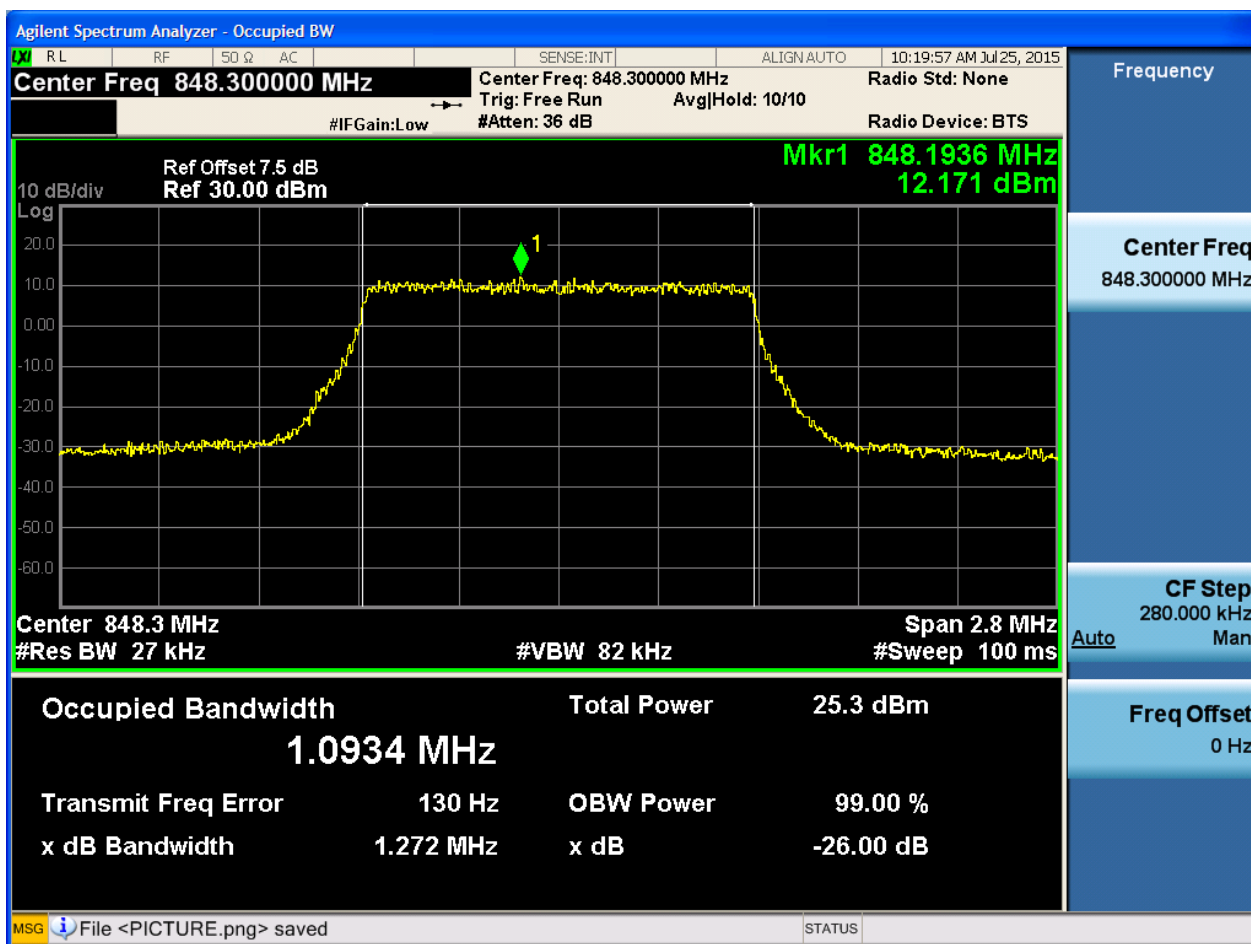
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

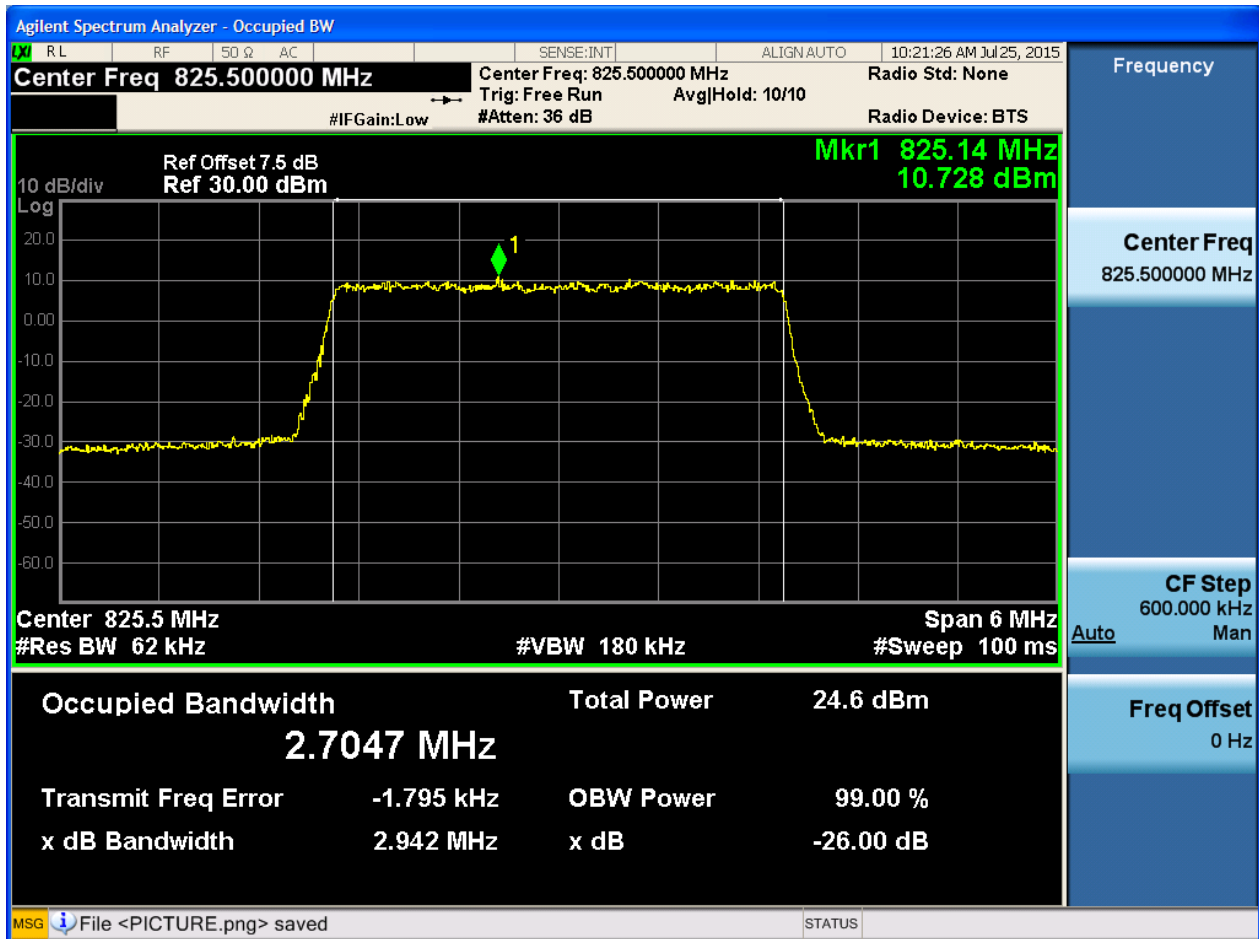




4.1.1.2.2 Test Bandwidth = 3

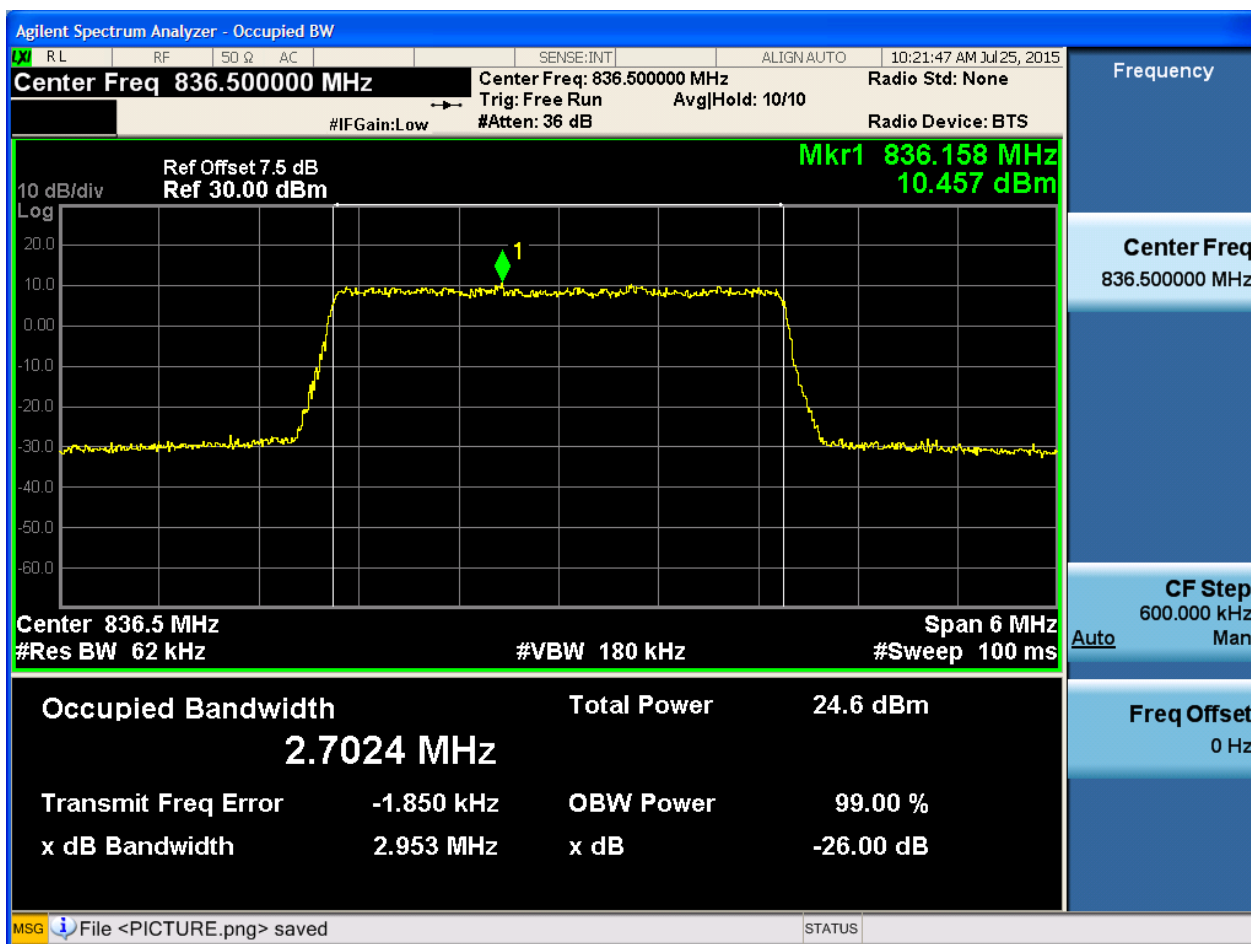
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



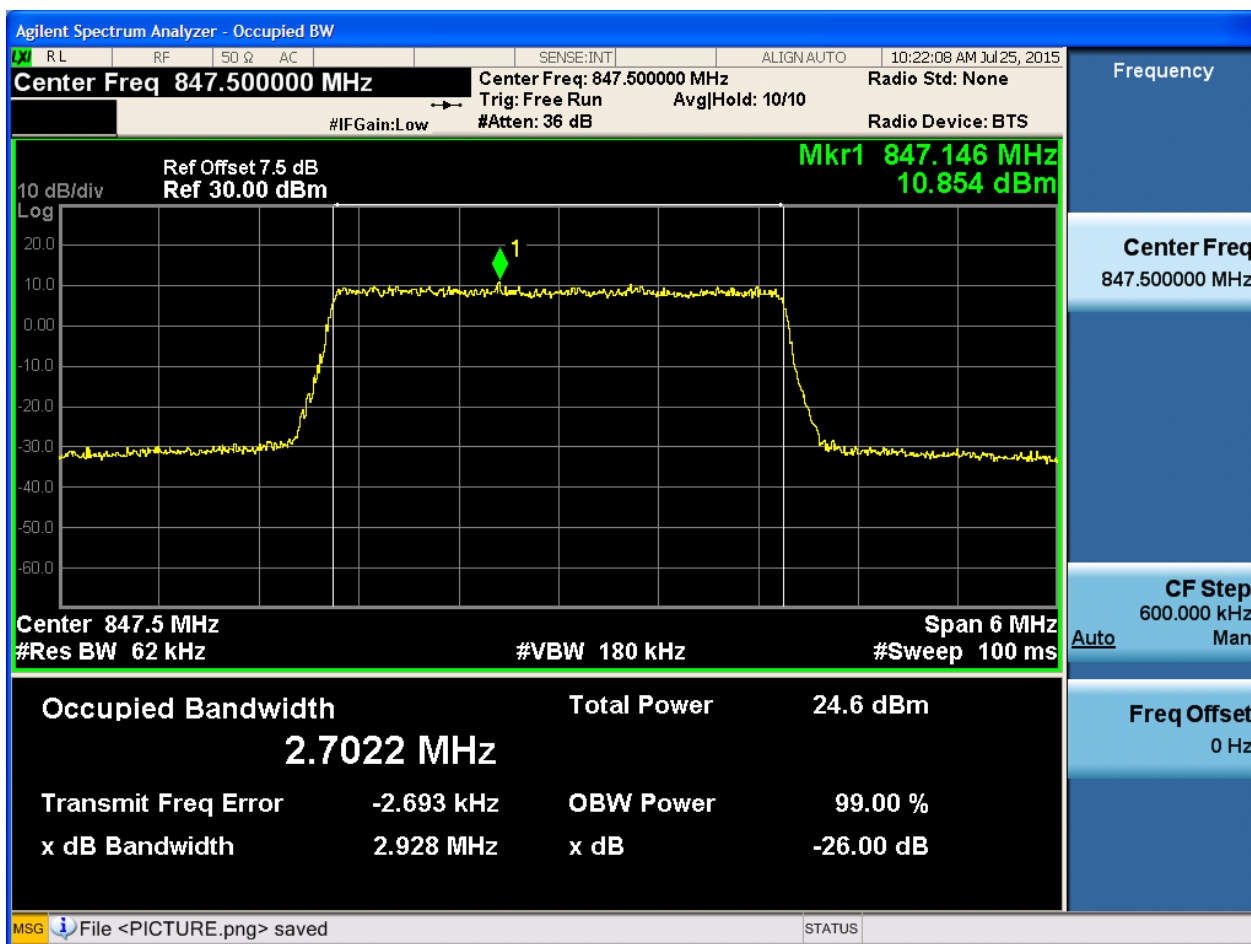
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB15#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

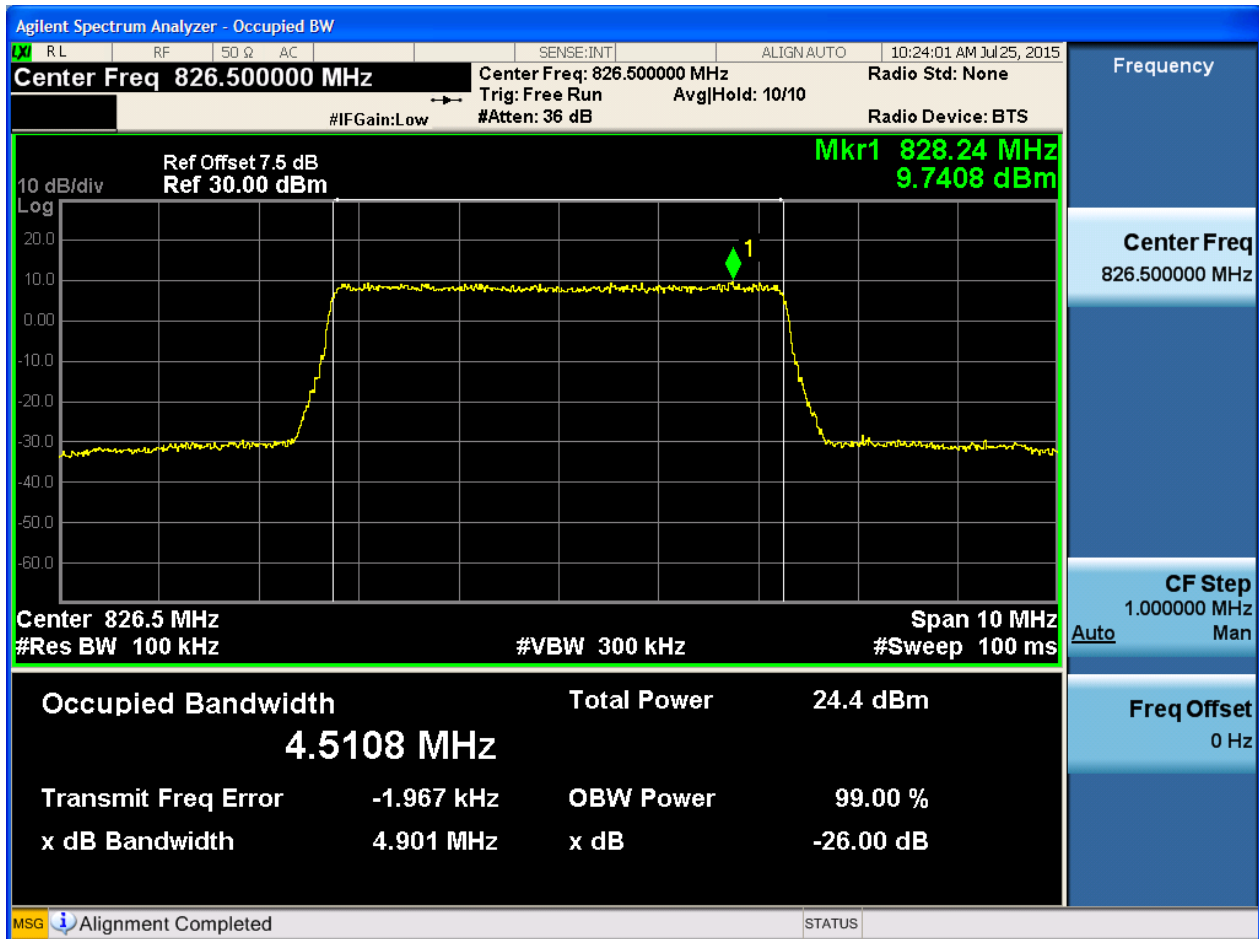




4.1.1.2.3 Test Bandwidth = 5

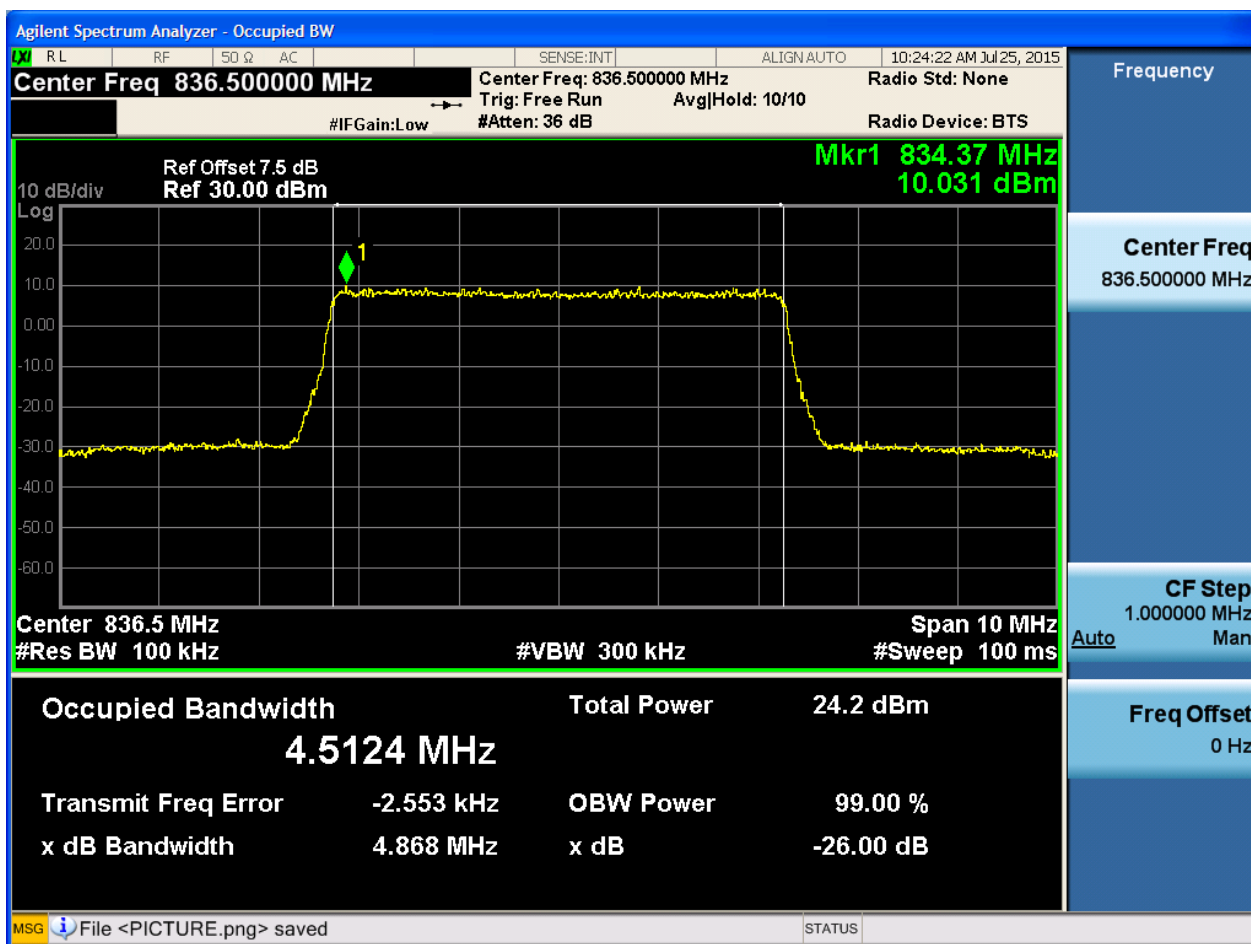
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



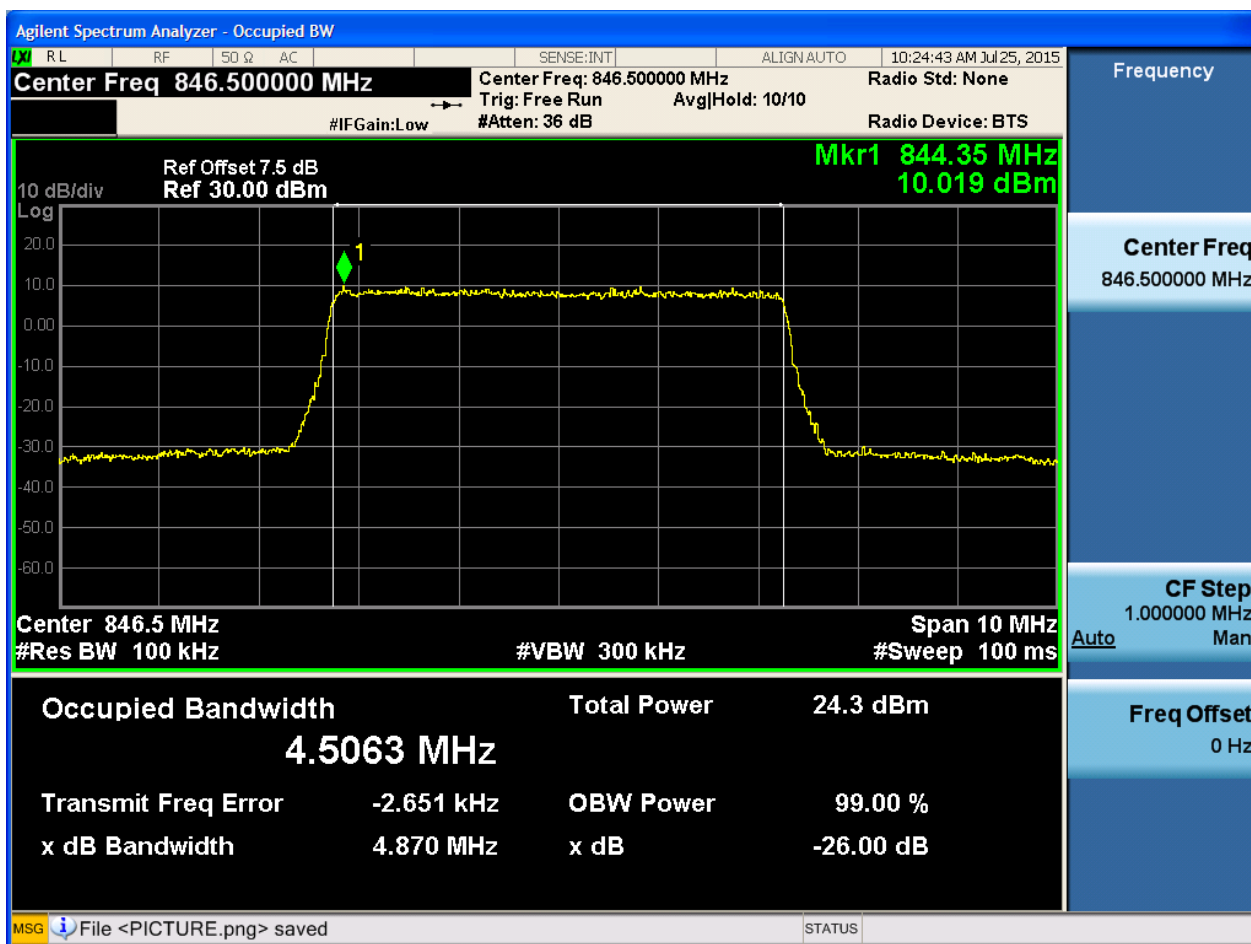
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB25#0



4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

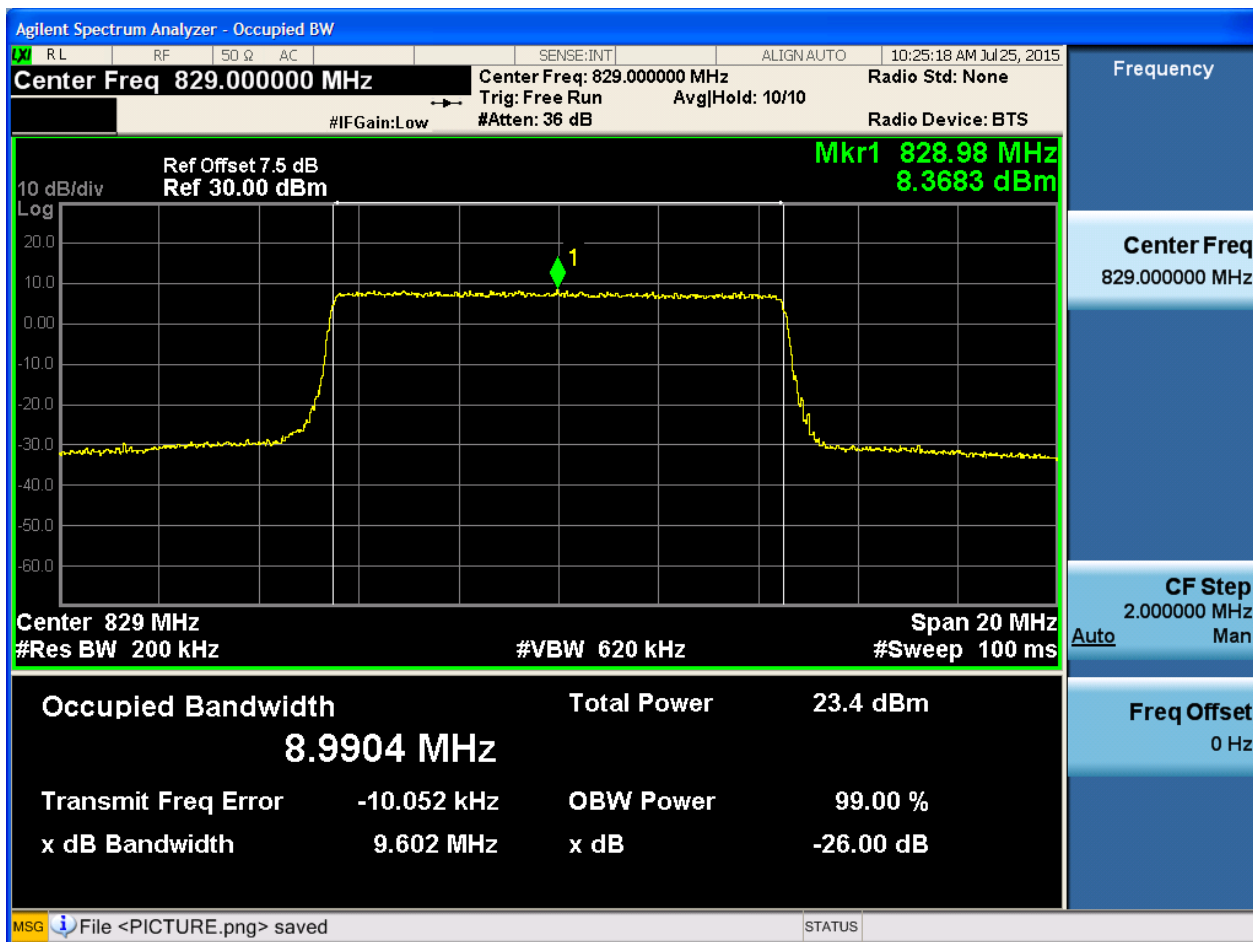




4.1.1.2.4 Test Bandwidth = 10

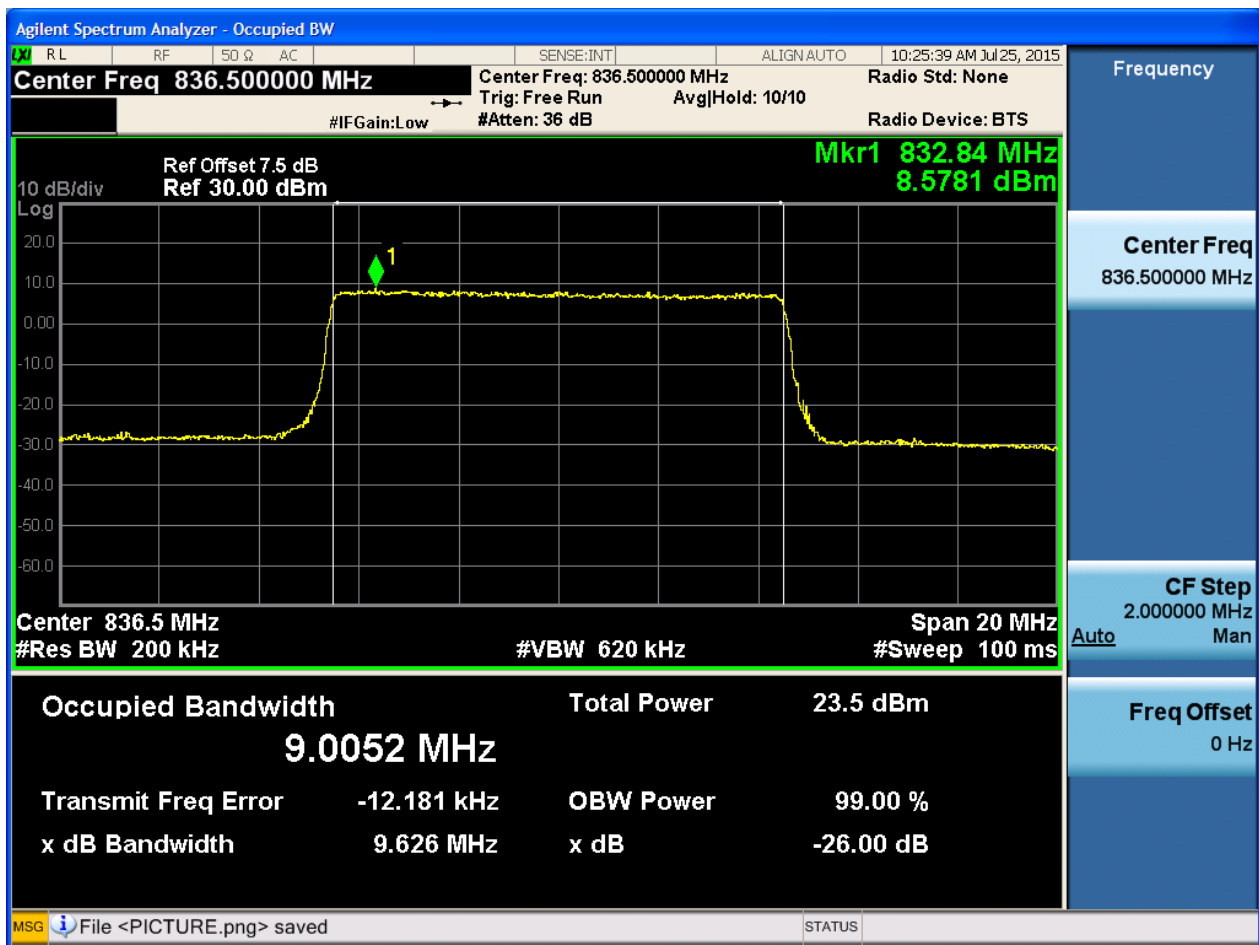
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



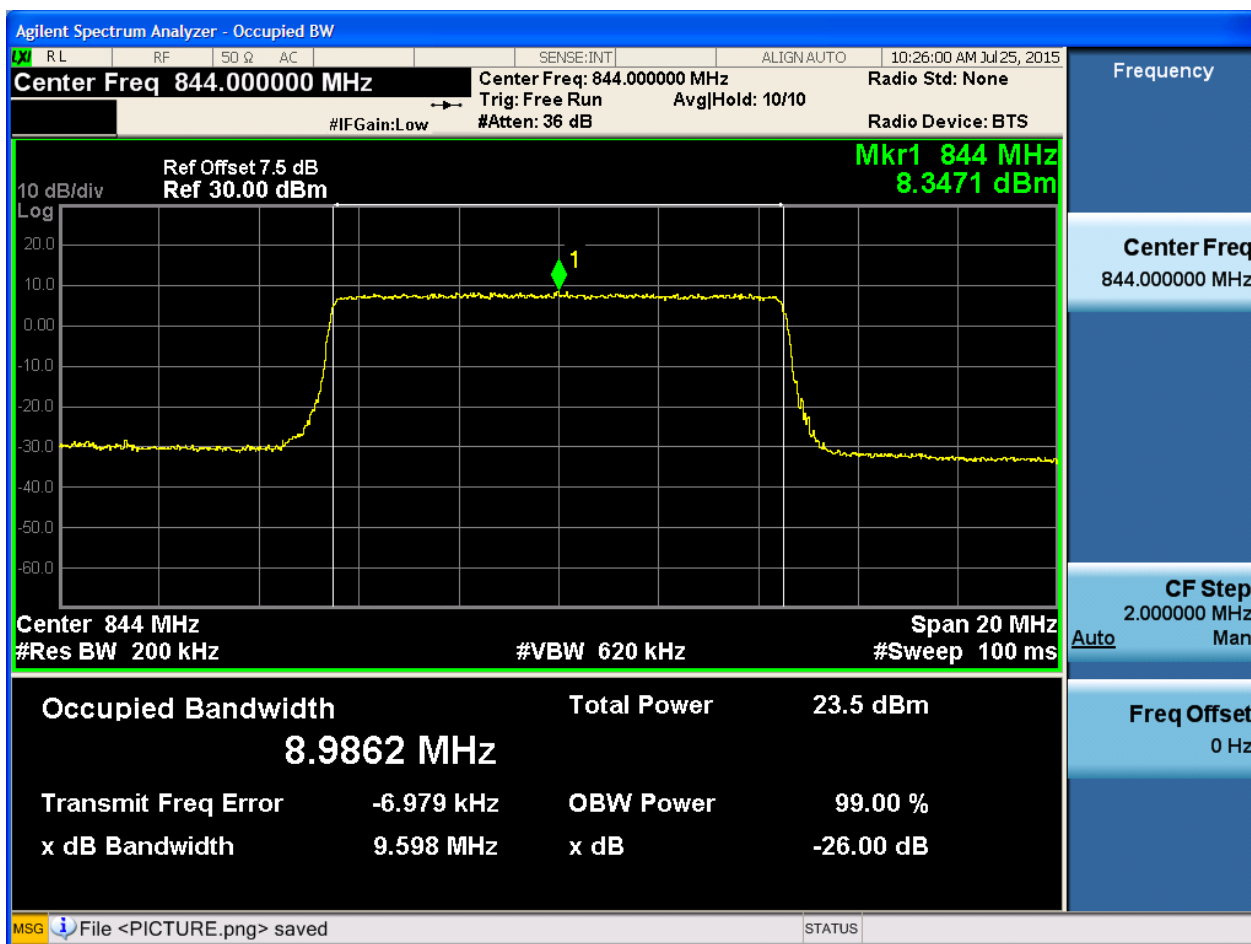
4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB50#0



4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

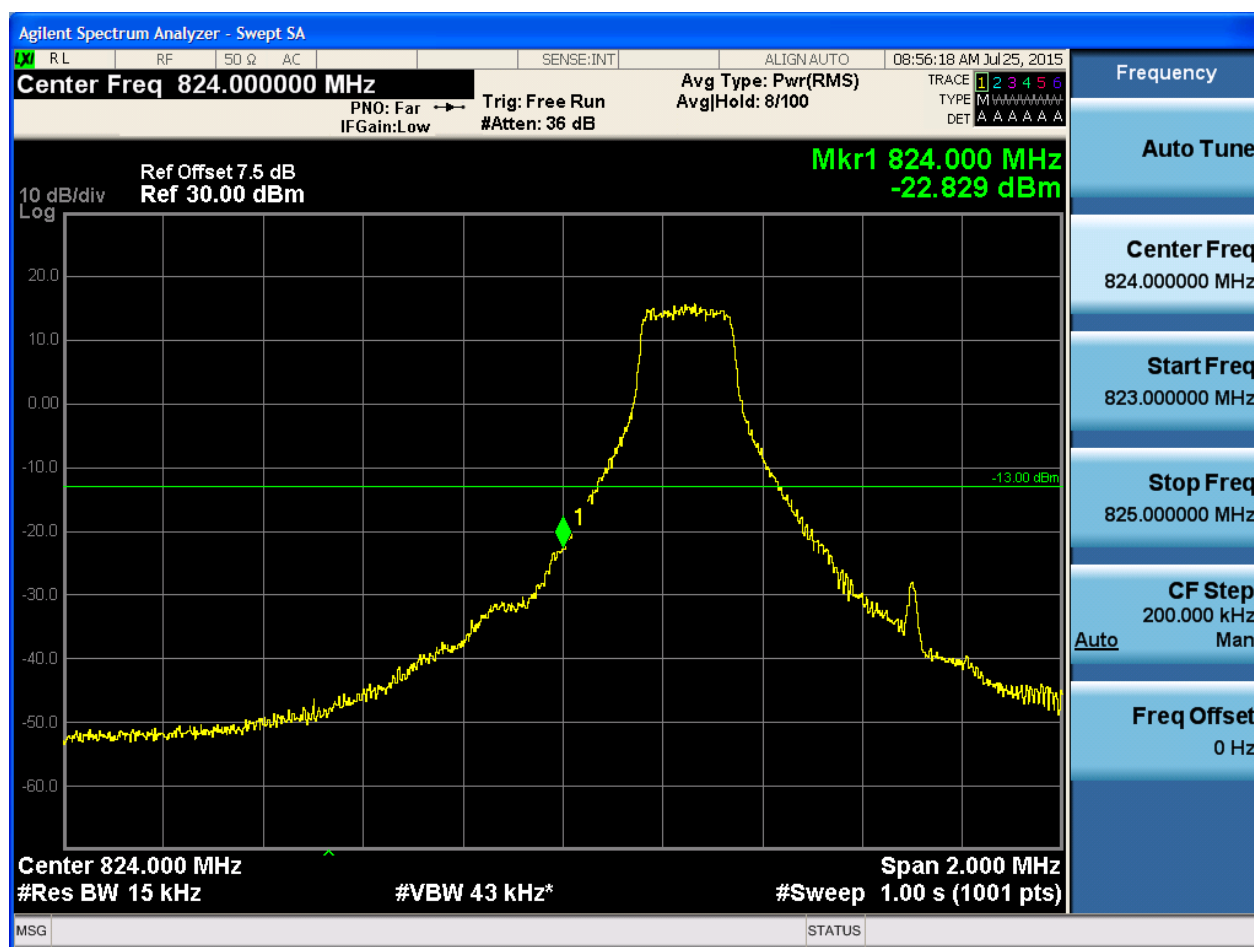
5.1.1 Test Band = BAND5

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





5.1.1.1.1.2 Test RB = RB1#5



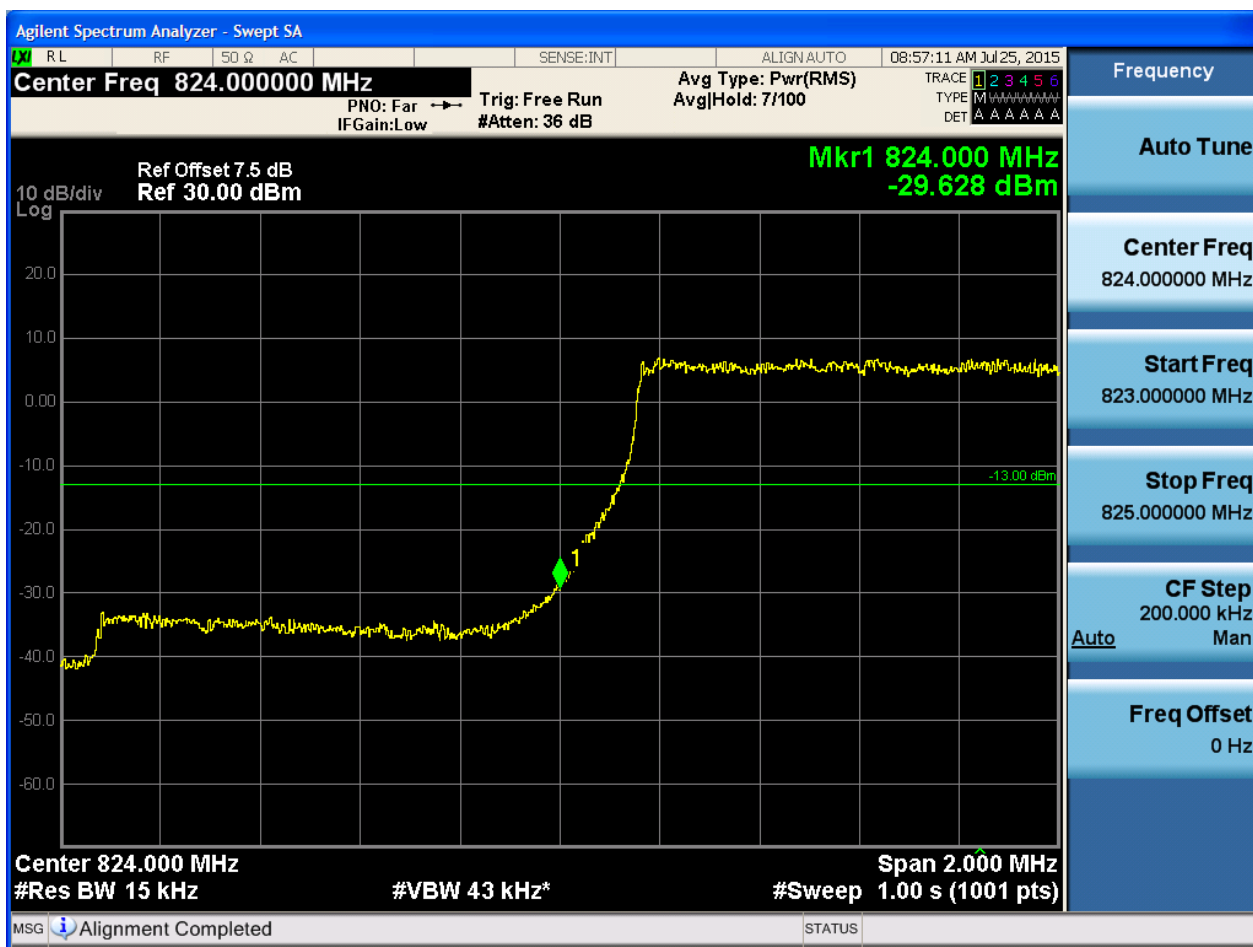


5.1.1.1.1.3 Test RB = RB3#2





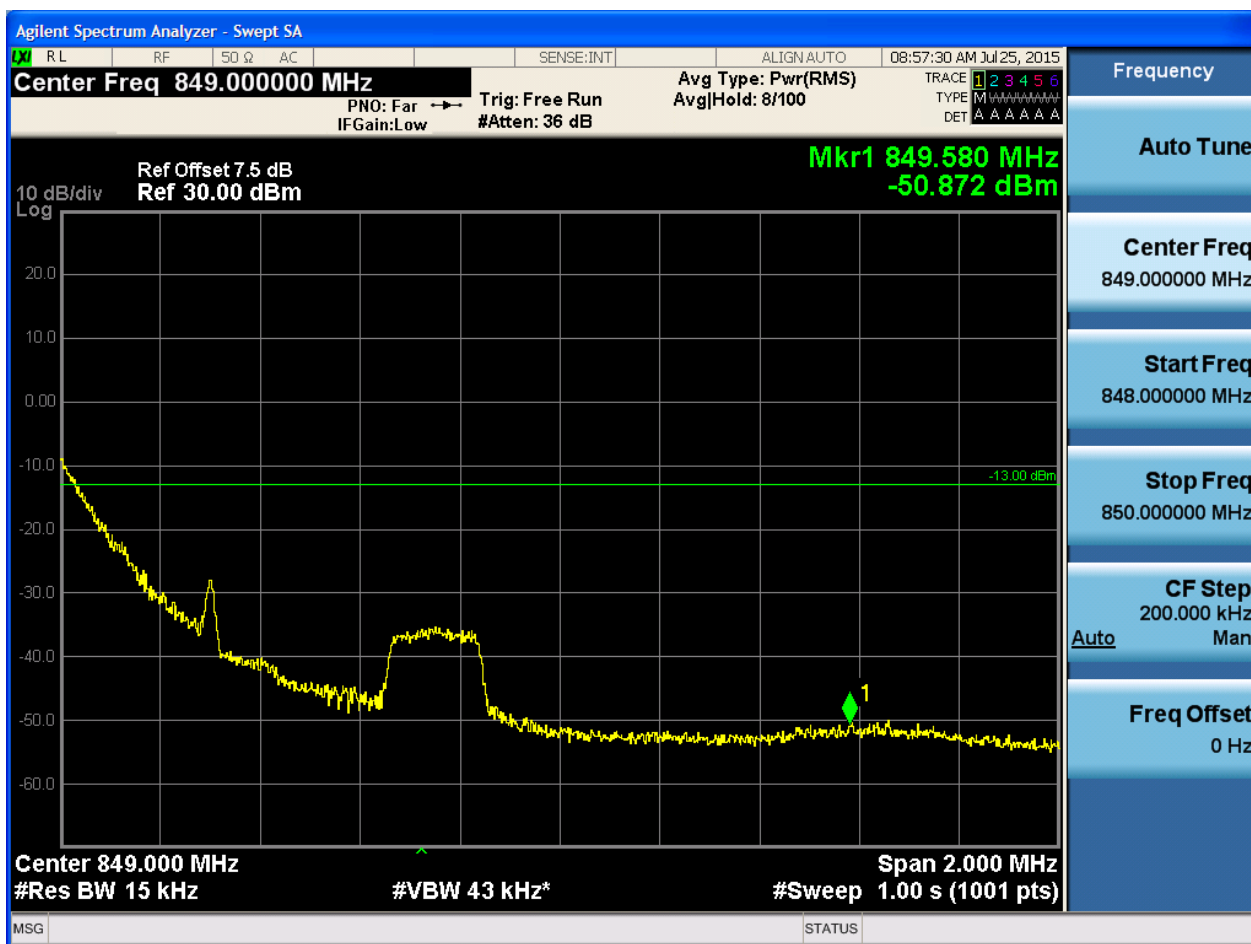
5.1.1.1.1.4 Test RB = RB6#0





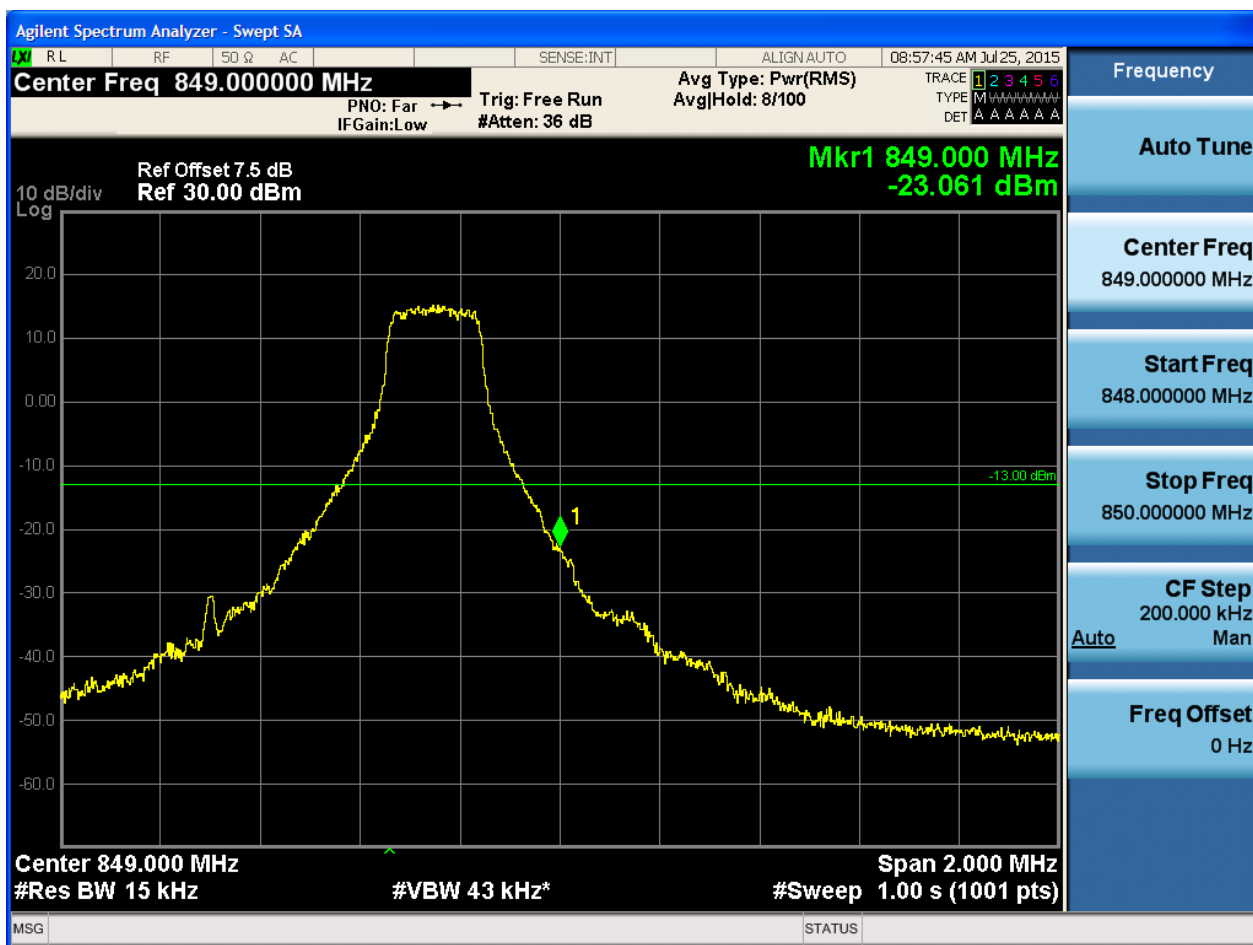
5.1.3.1.1.2 Test Channel = HCH

5.1.3.1.1.2.1 Test RB = RB1#0





5.1.3.1.1.2.2 Test RB = RB1#5



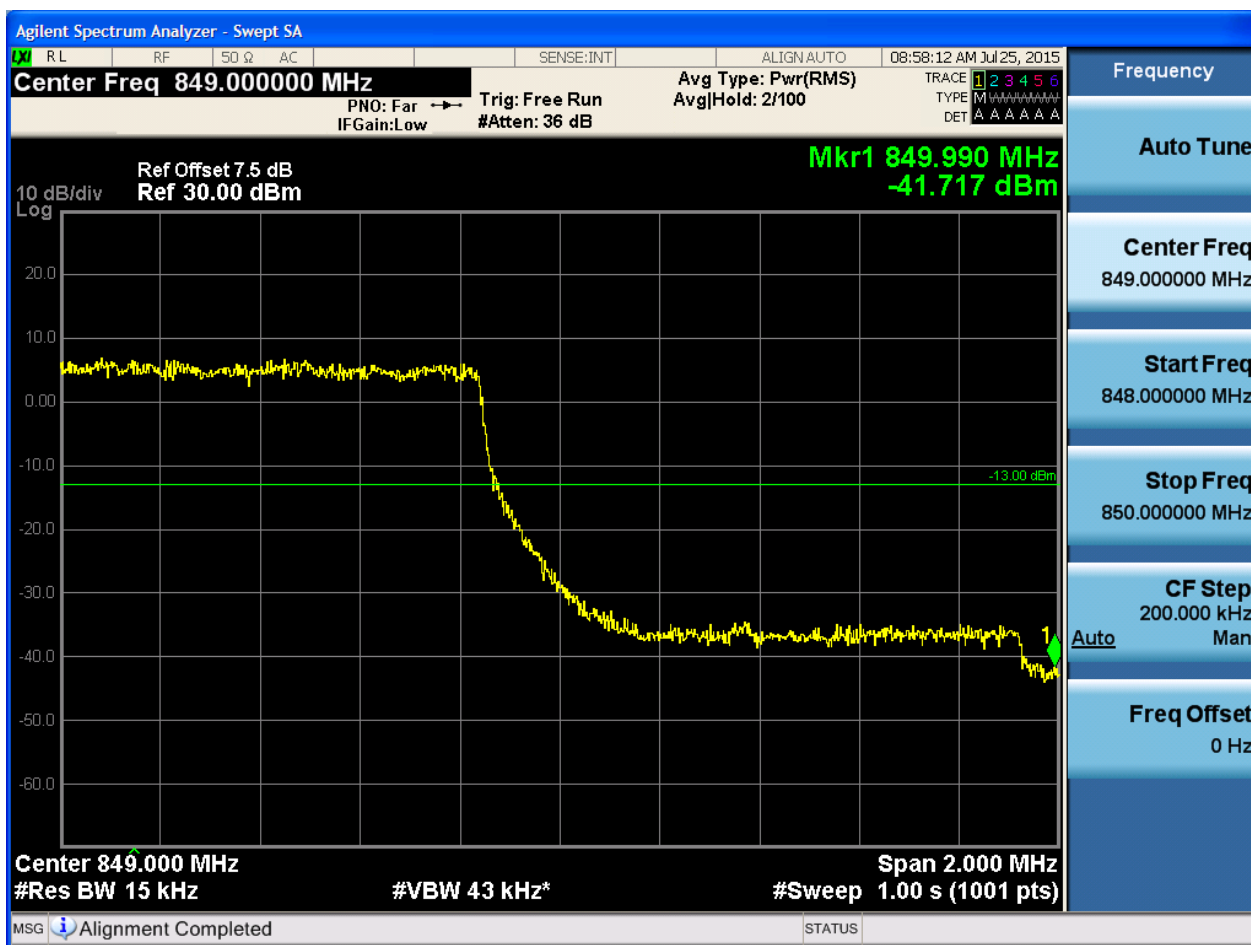


5.1.3.1.1.2.3 Test RB = RB3#2





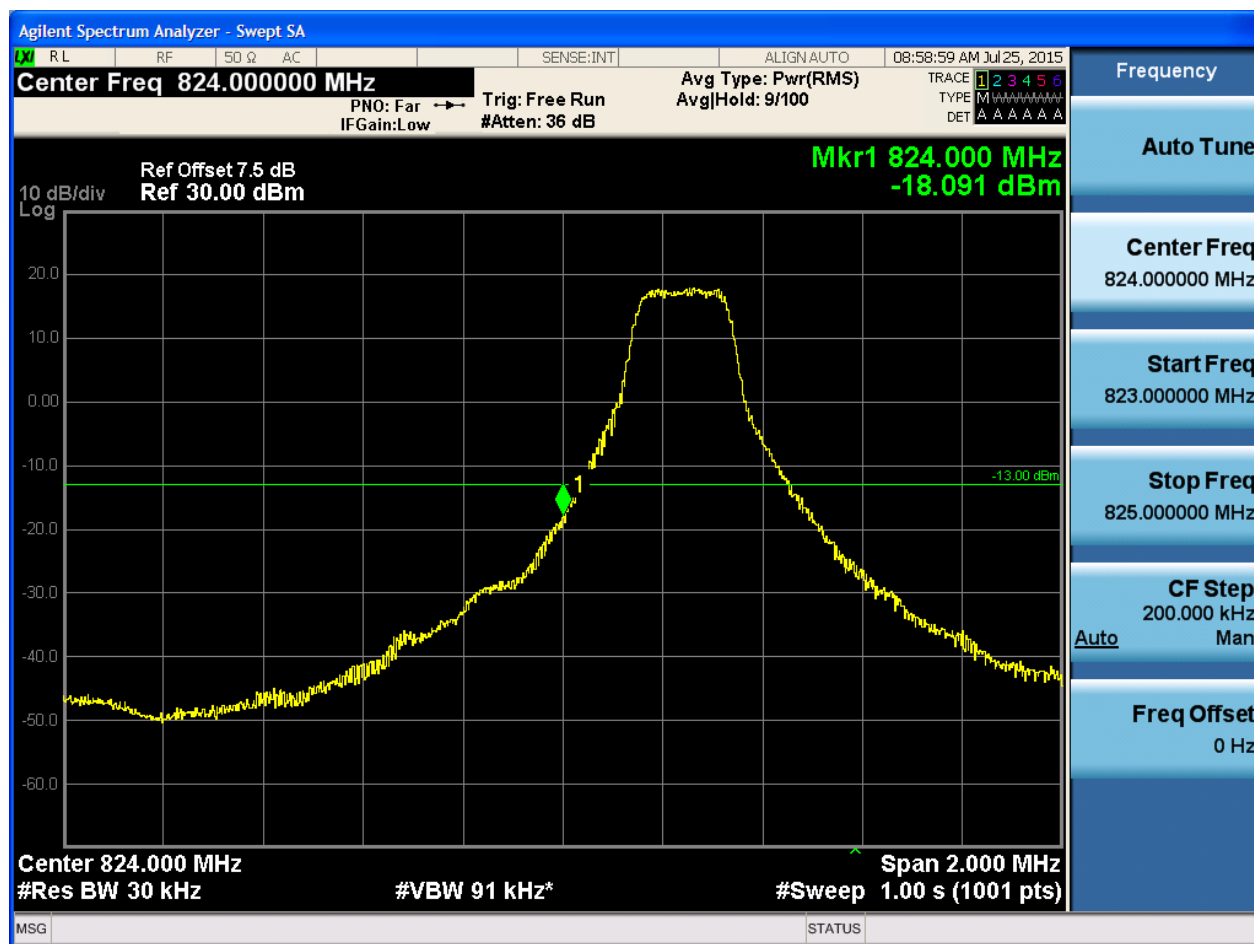
5.1.3.1.1.2.4 Test RB = RB6#0



5.1.1.1.2 Test Bandwidth = 3

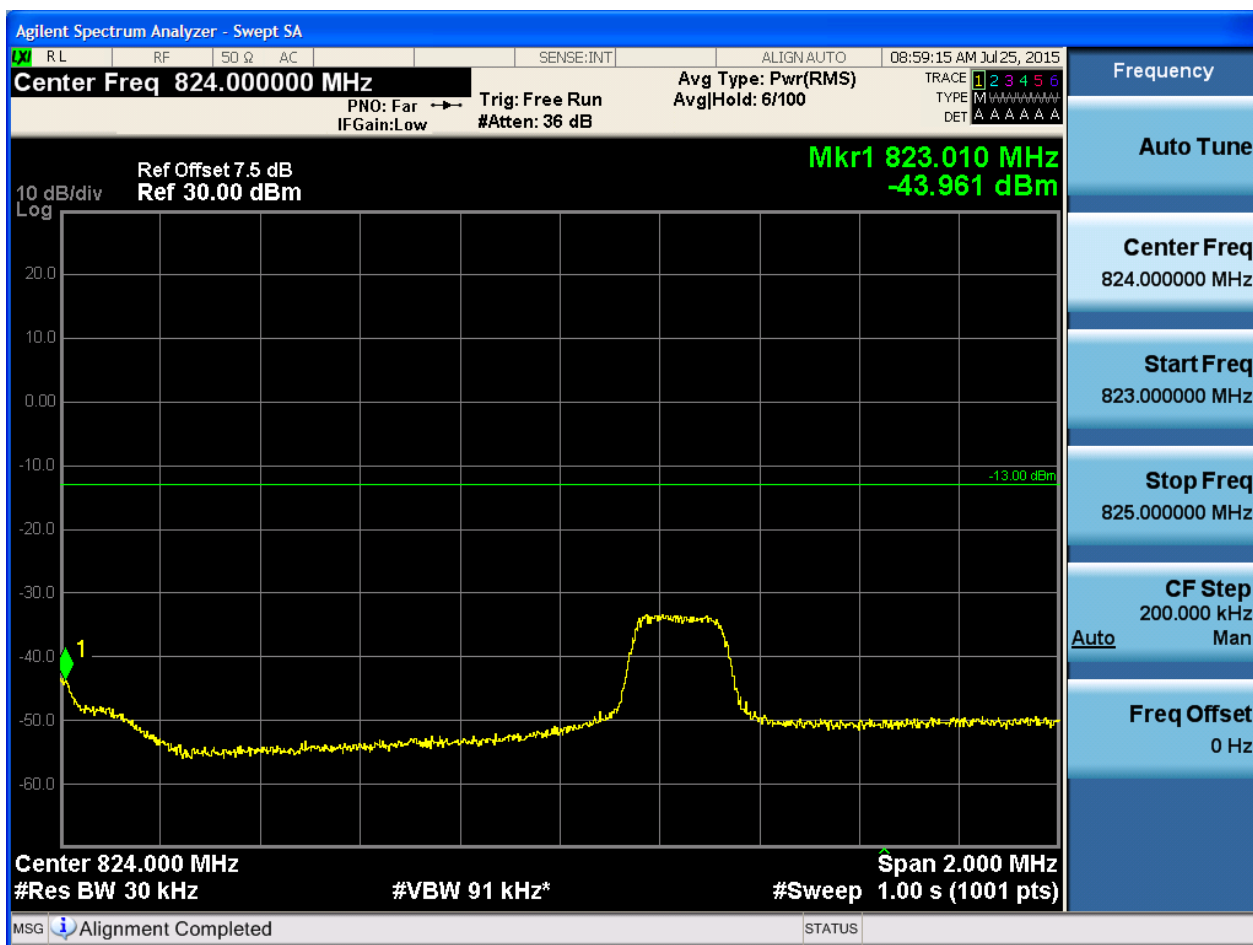
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



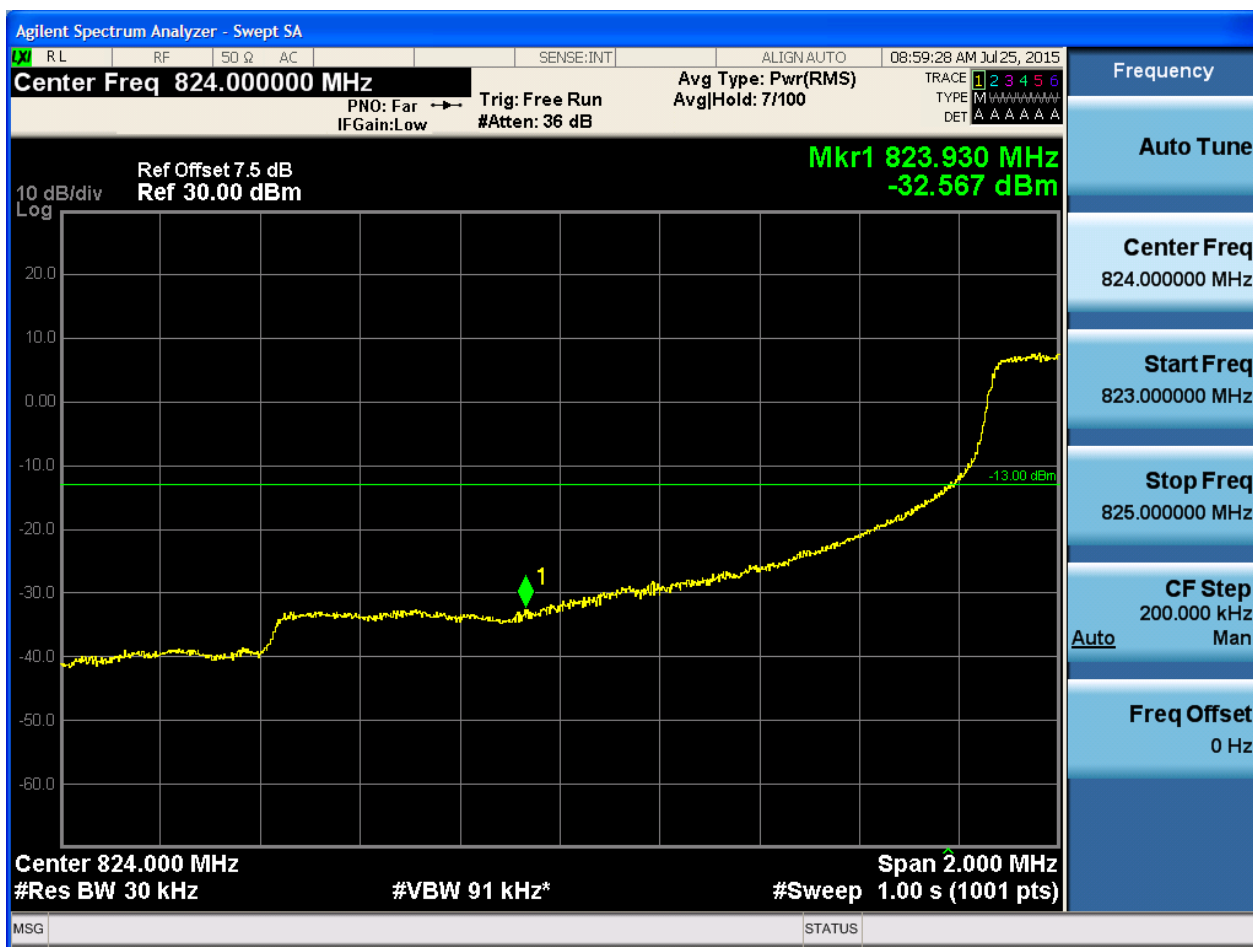


5.1.1.1.2.1.2 Test RB = RB1#14



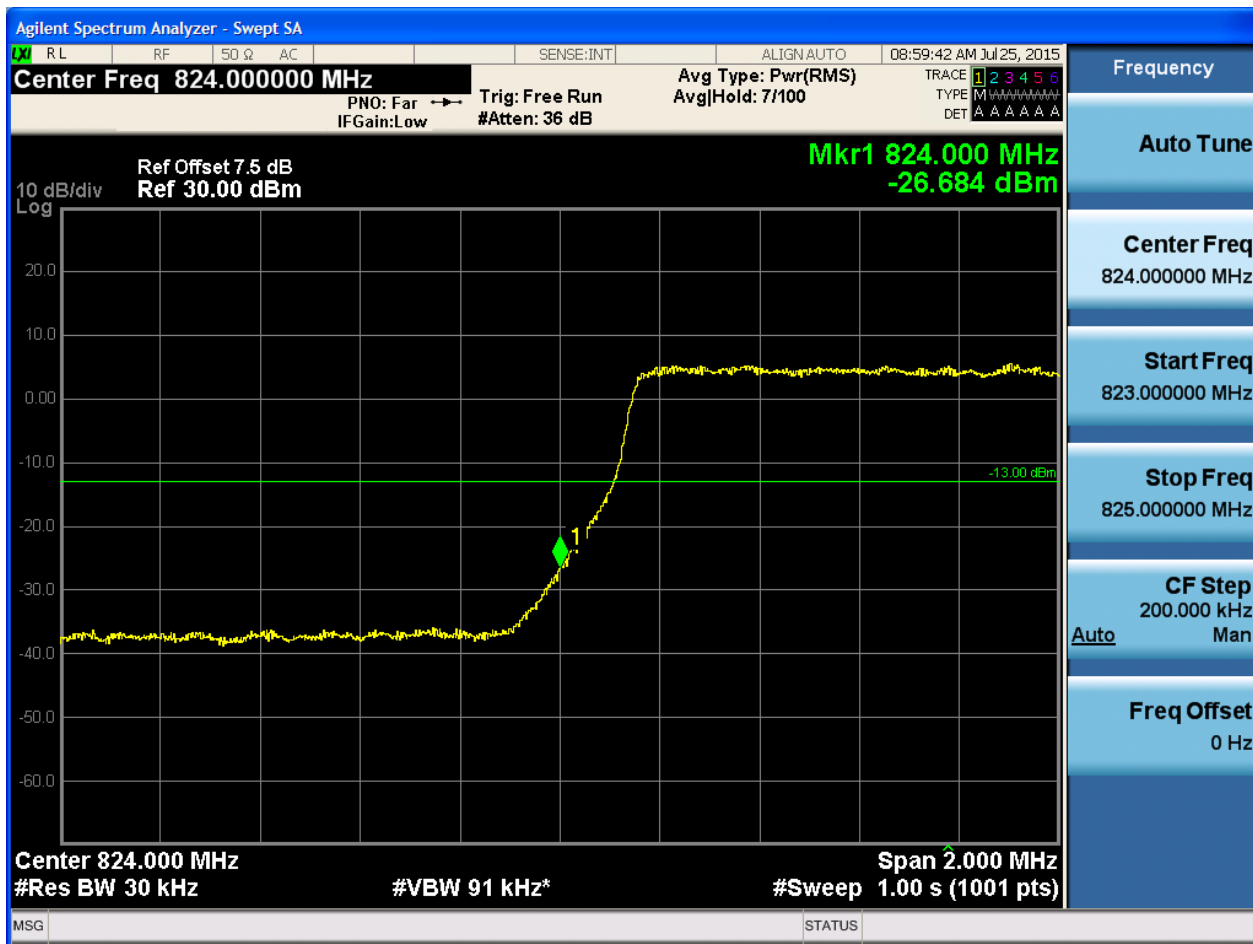


5.1.1.1.2.1.3 Test RB = RB8#4





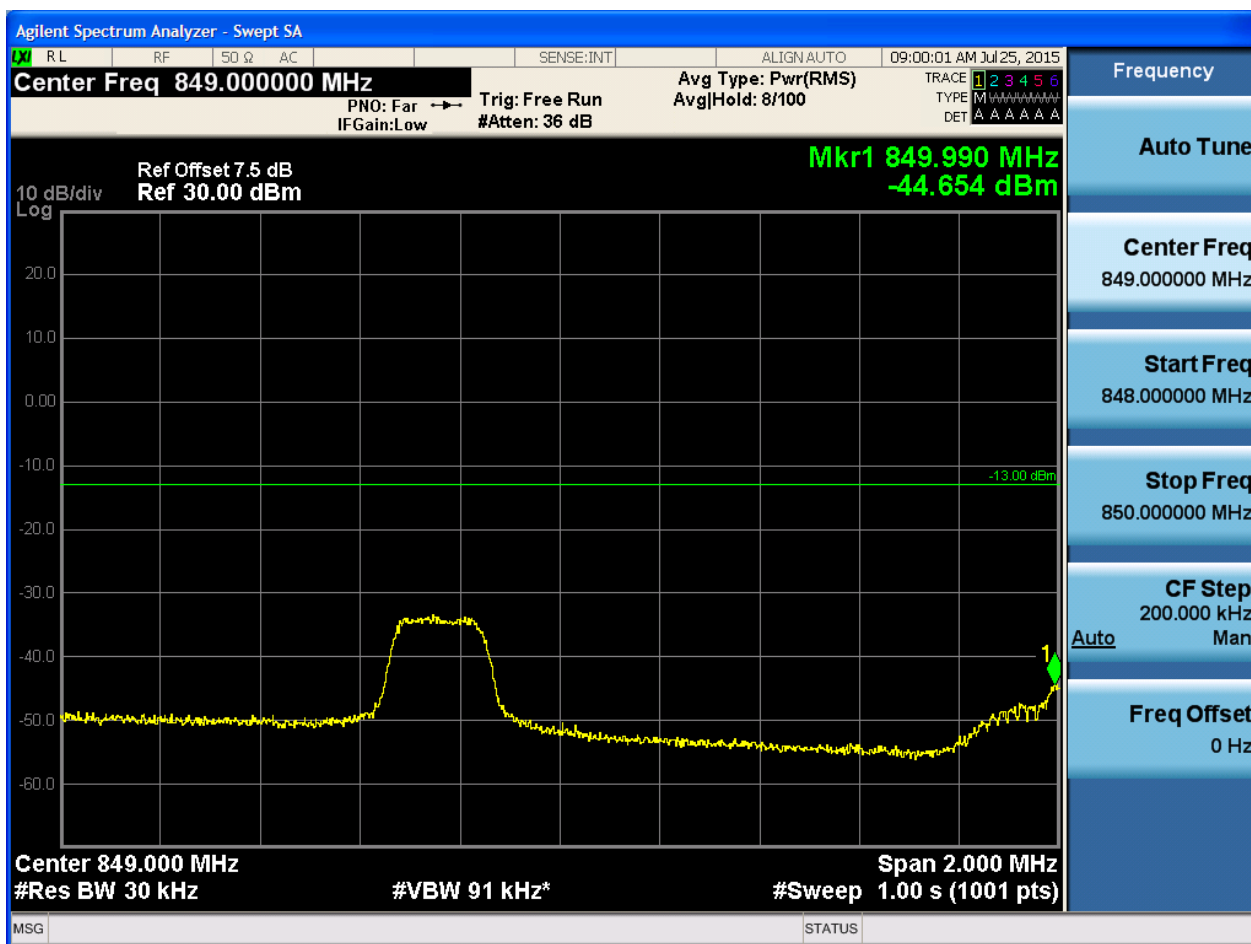
5.1.1.1.2.1.4 Test RB = RB15#0





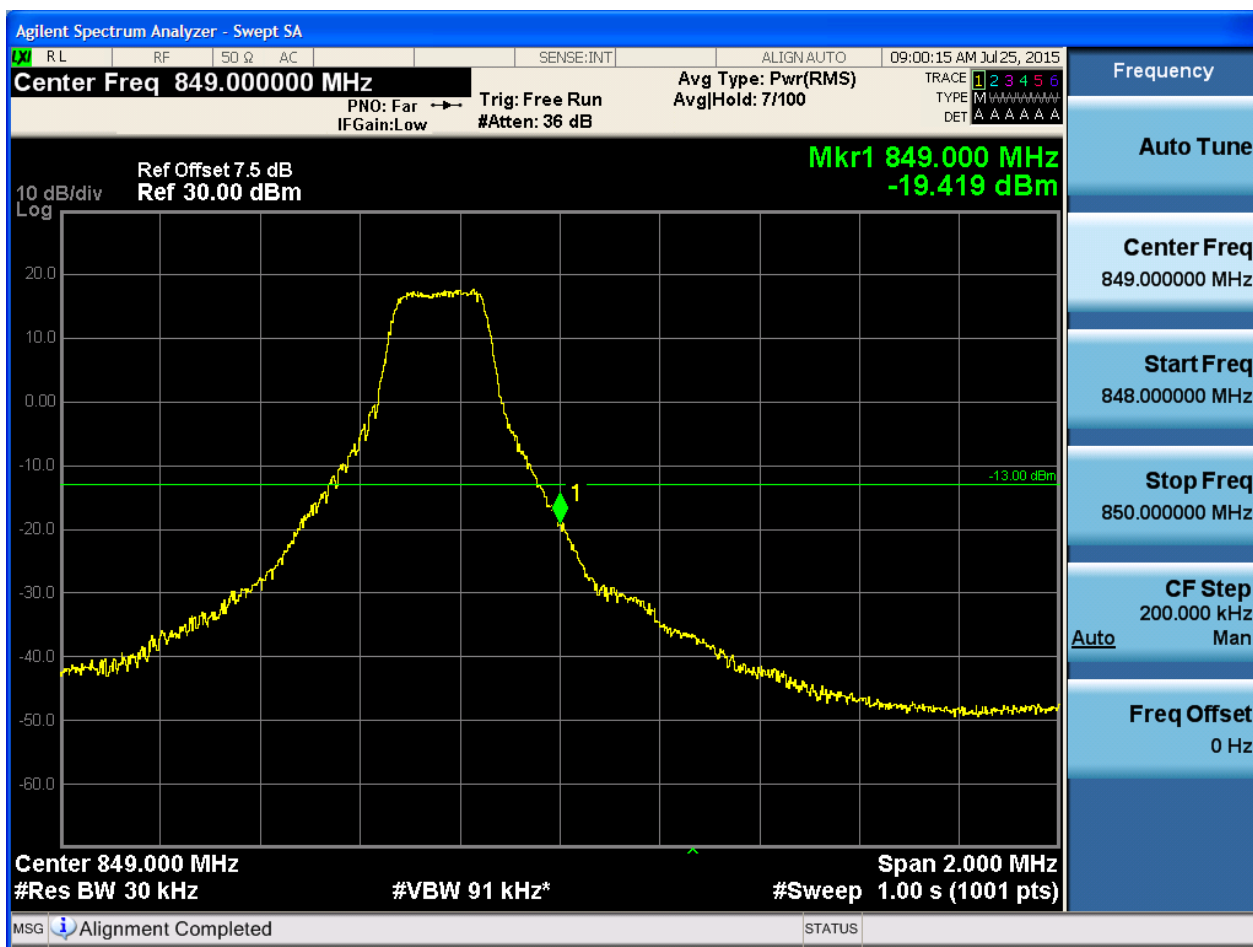
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-32.314 dBm

Center 849.000 MHz
#Res BW 30 kHz

#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

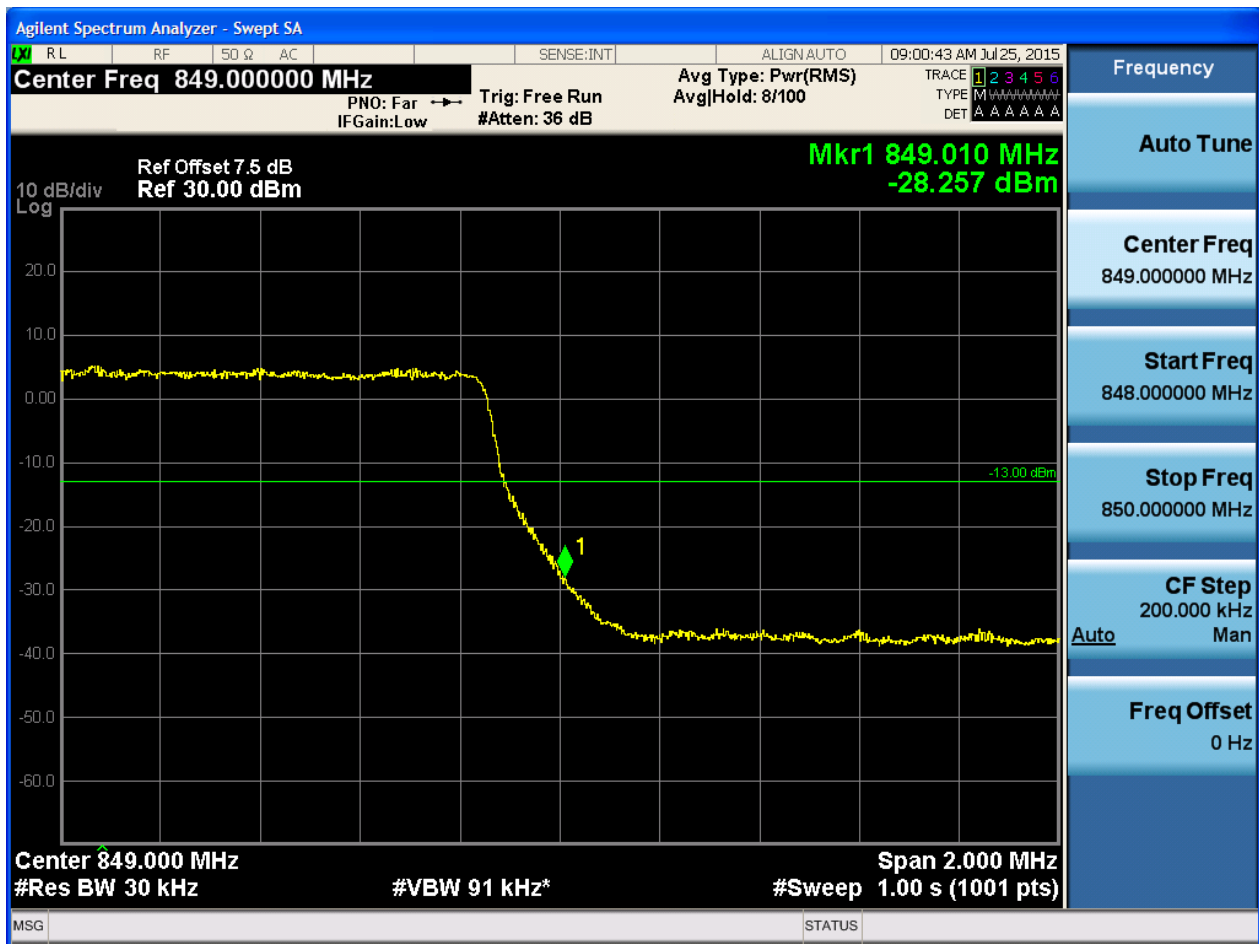
Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



5.1.1.1.2.2.4 Test RB = RB15#0

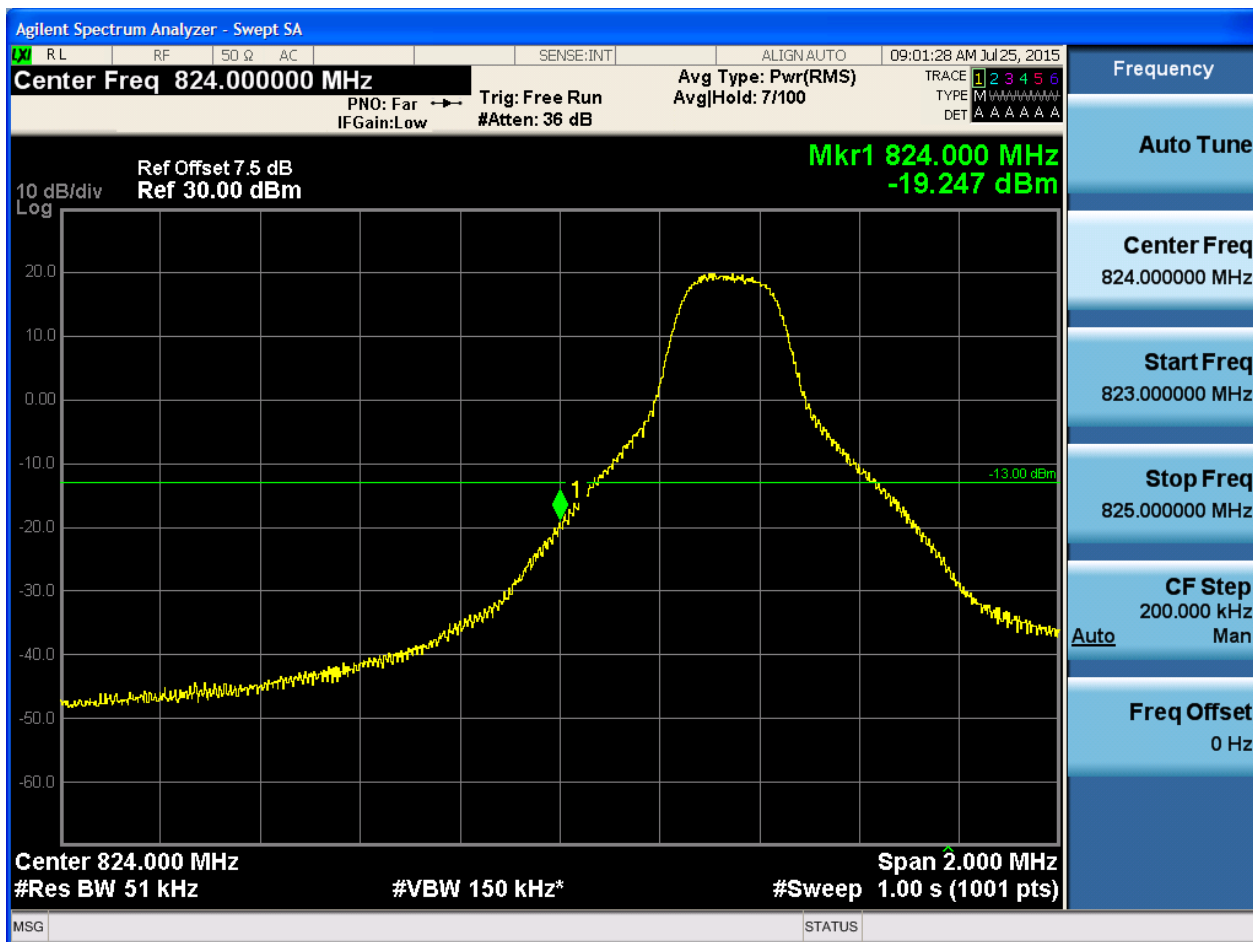




5.1.1.1.3 Test Bandwidth = 5

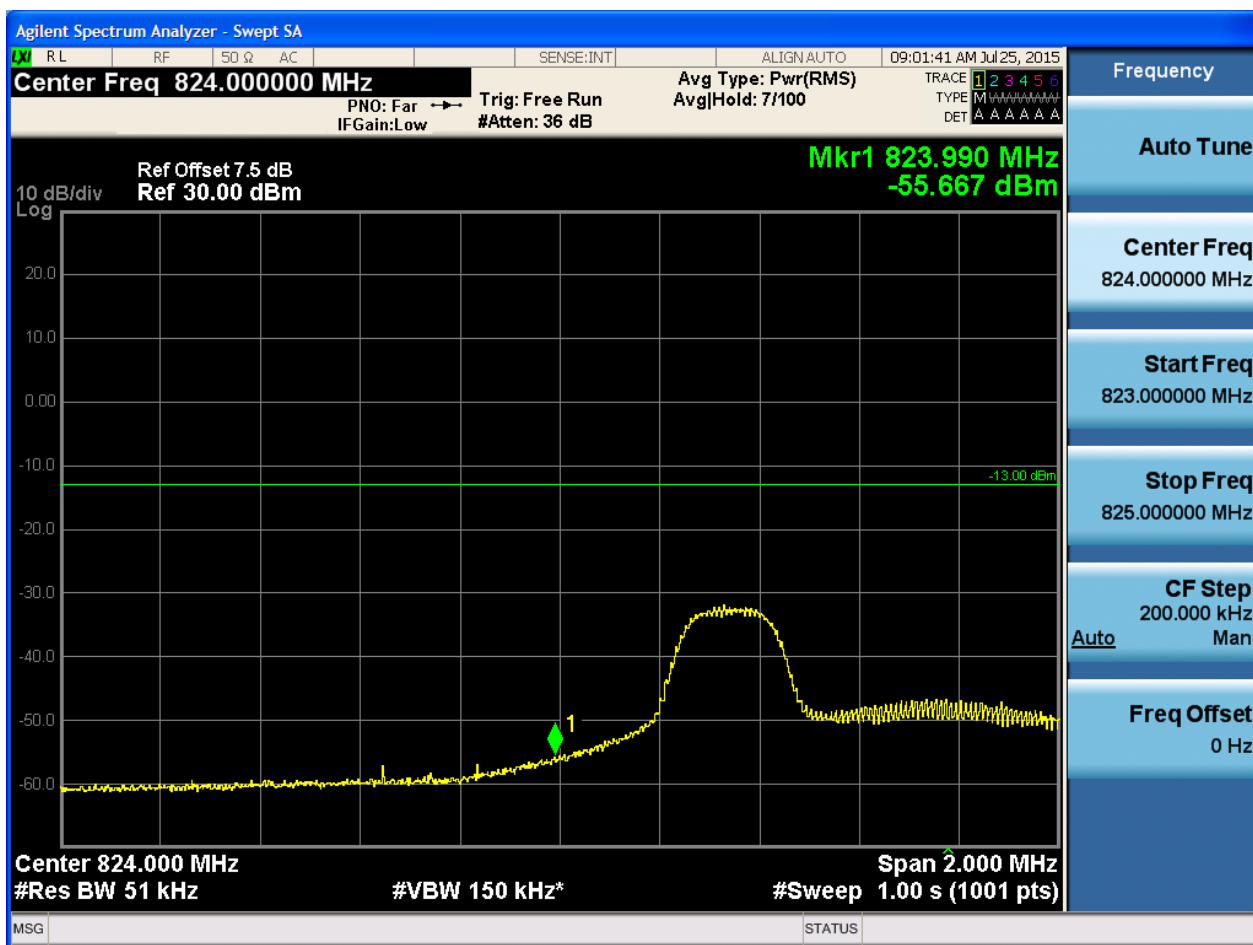
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#24



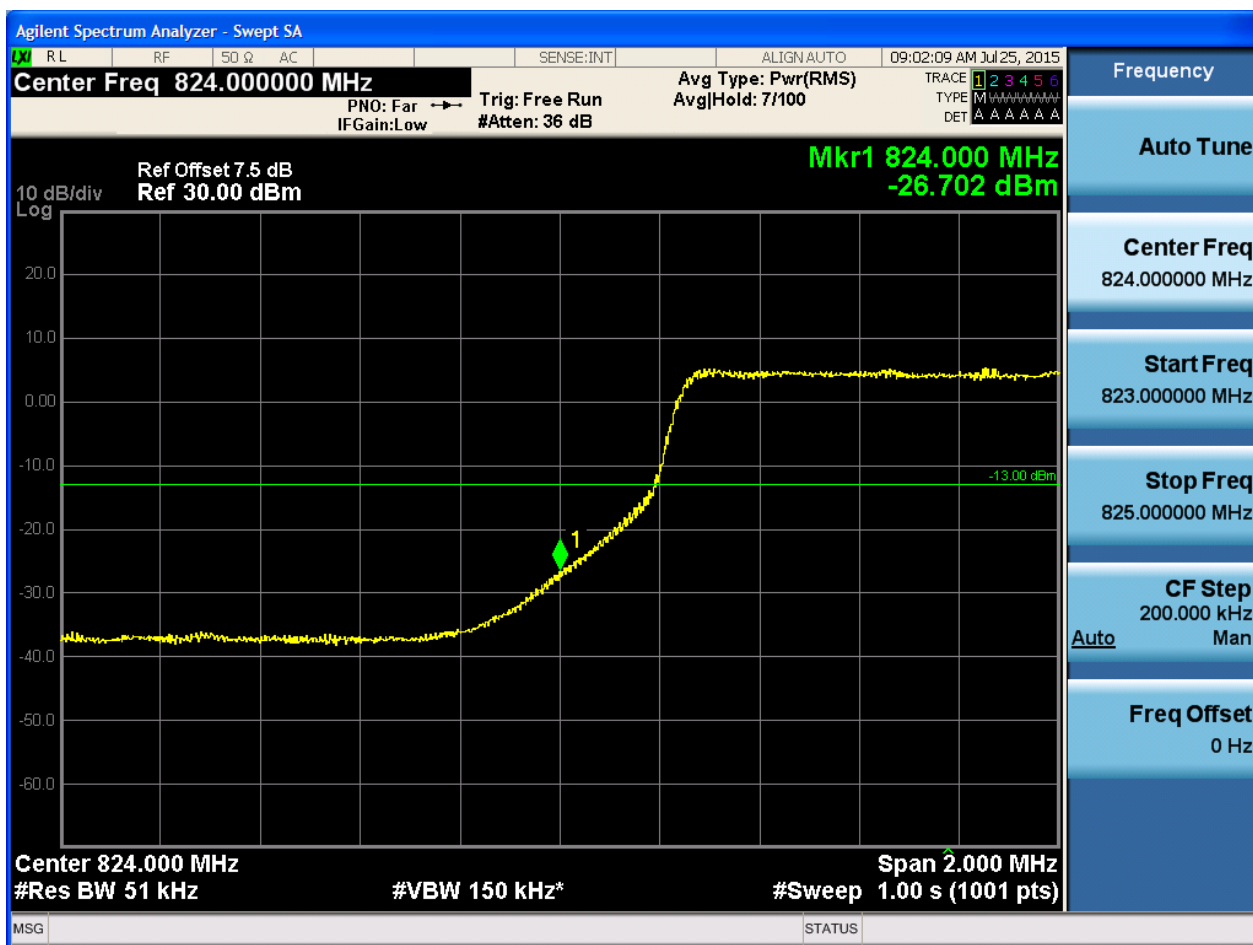


5.1.1.1.3.1.3 Test RB = RB12#6





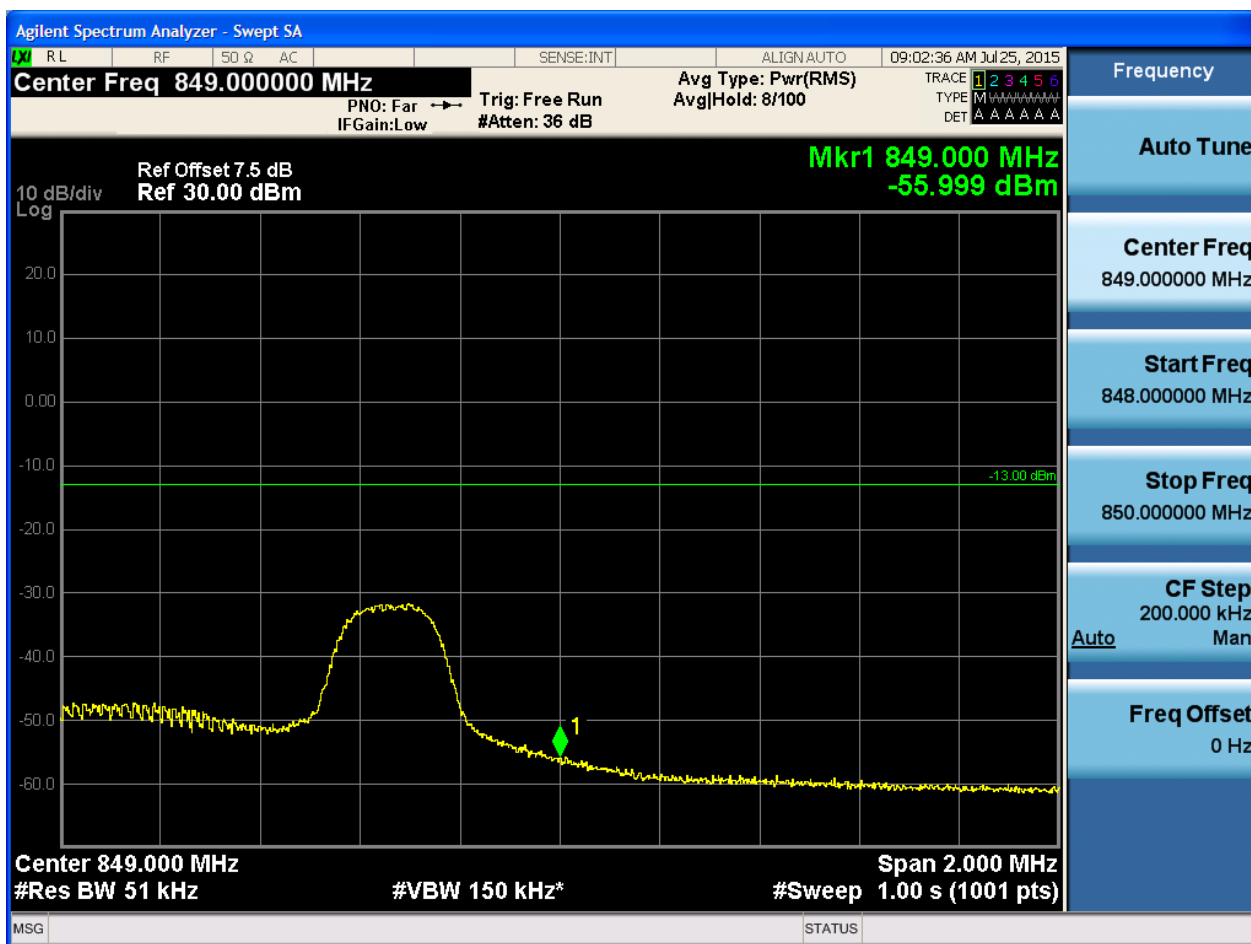
5.1.1.1.3.1.4 Test RB = RB25#0





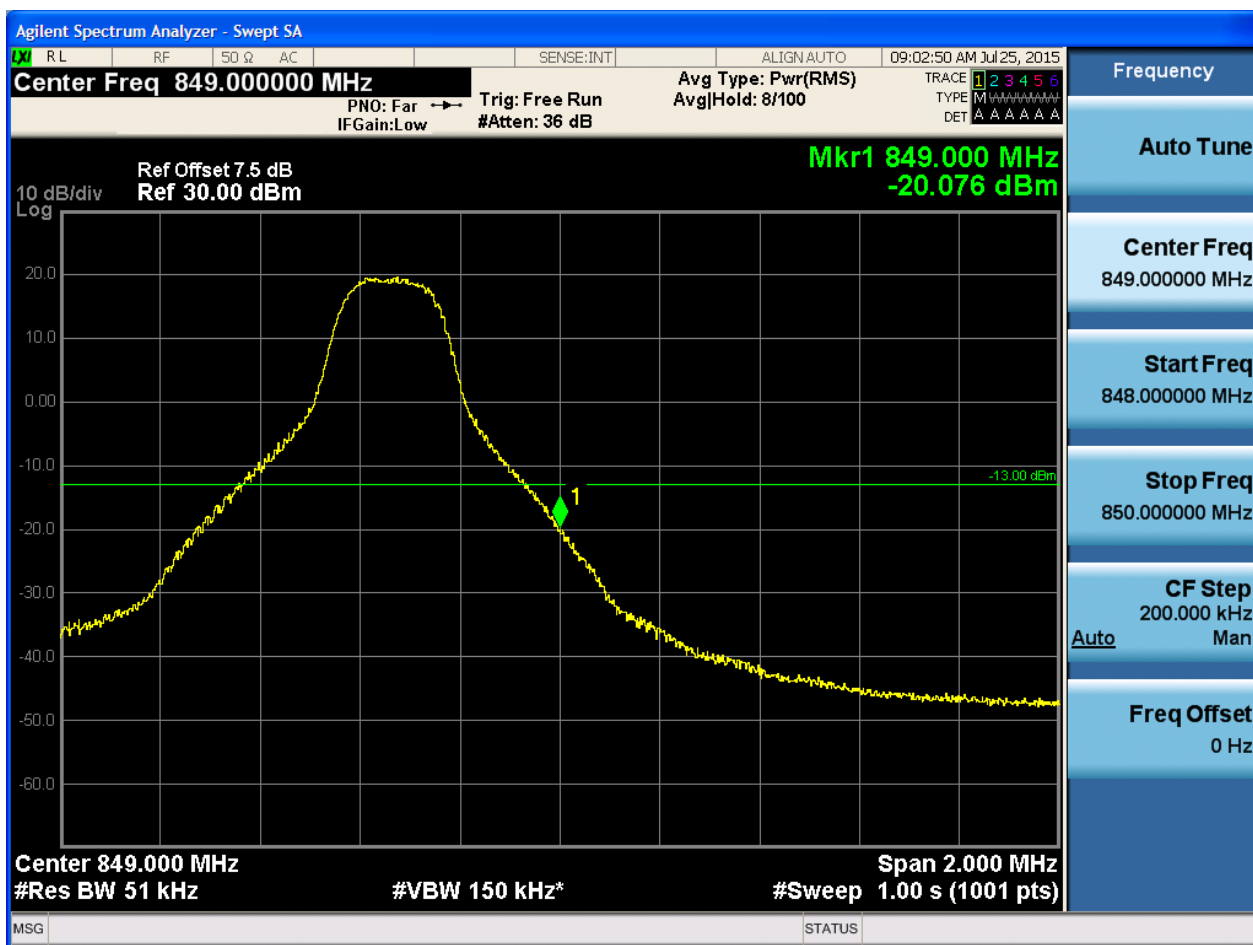
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





5.1.1.1.3.2.3 Test RB = RB12#6





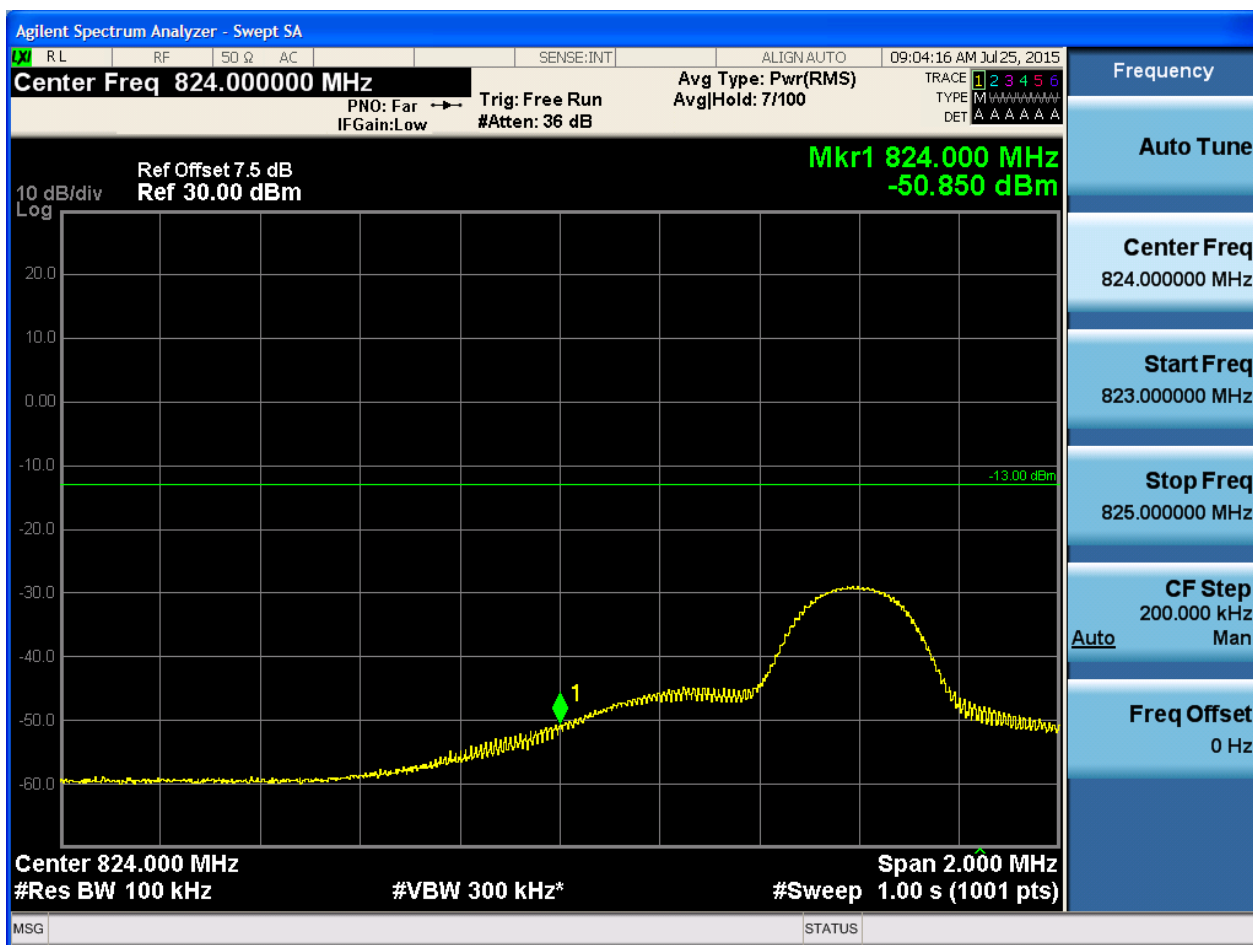
5.1.1.1.3.2.4 Test RB = RB25#0







5.1.1.1.4.1.2 Test RB = RB1#49



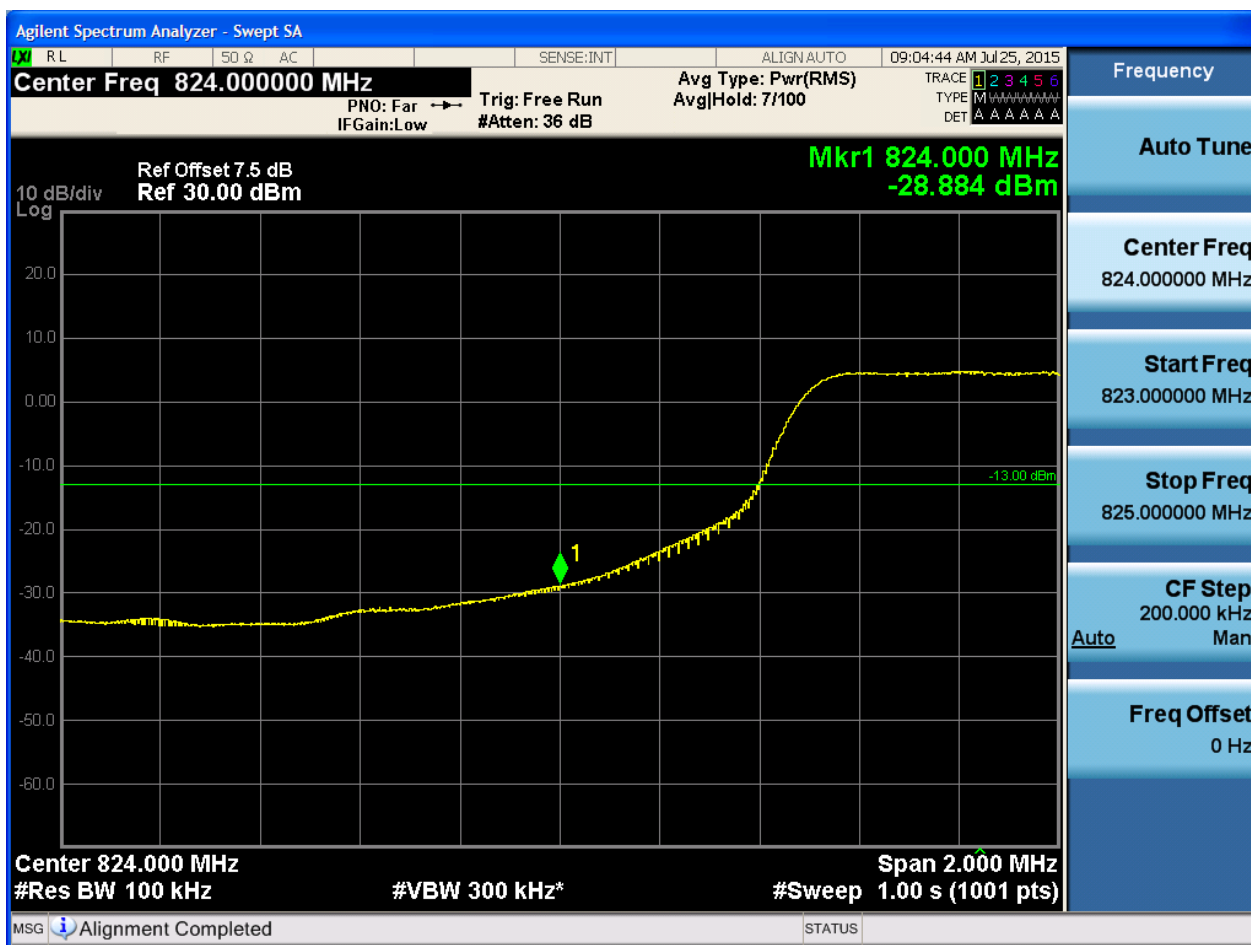


5.1.1.1.4.1.3 Test RB = RB25#13



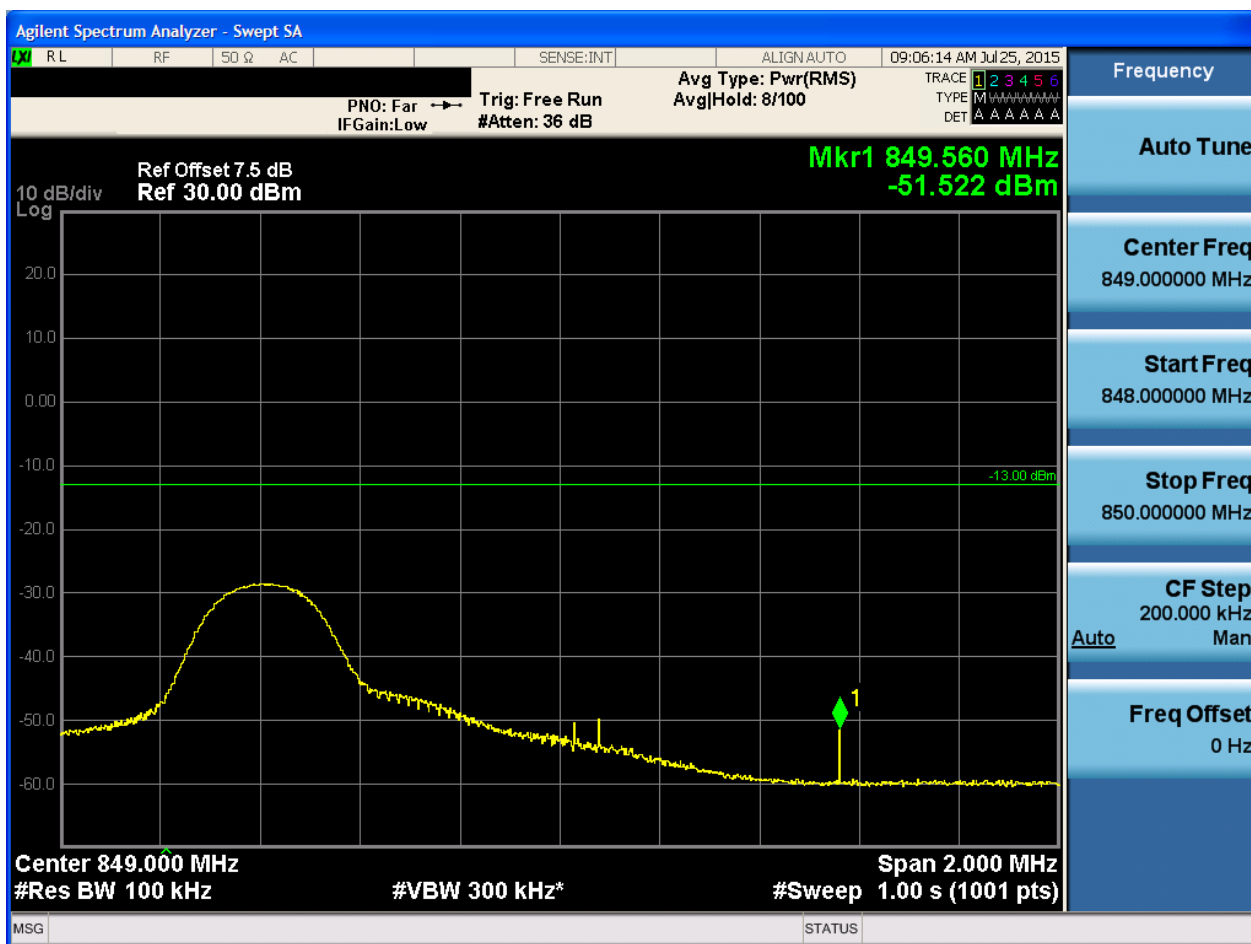


5.1.1.1.4.1.4 Test RB = RB50#0



5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:06:28 AM Jul 25, 2015

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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-29.208 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz

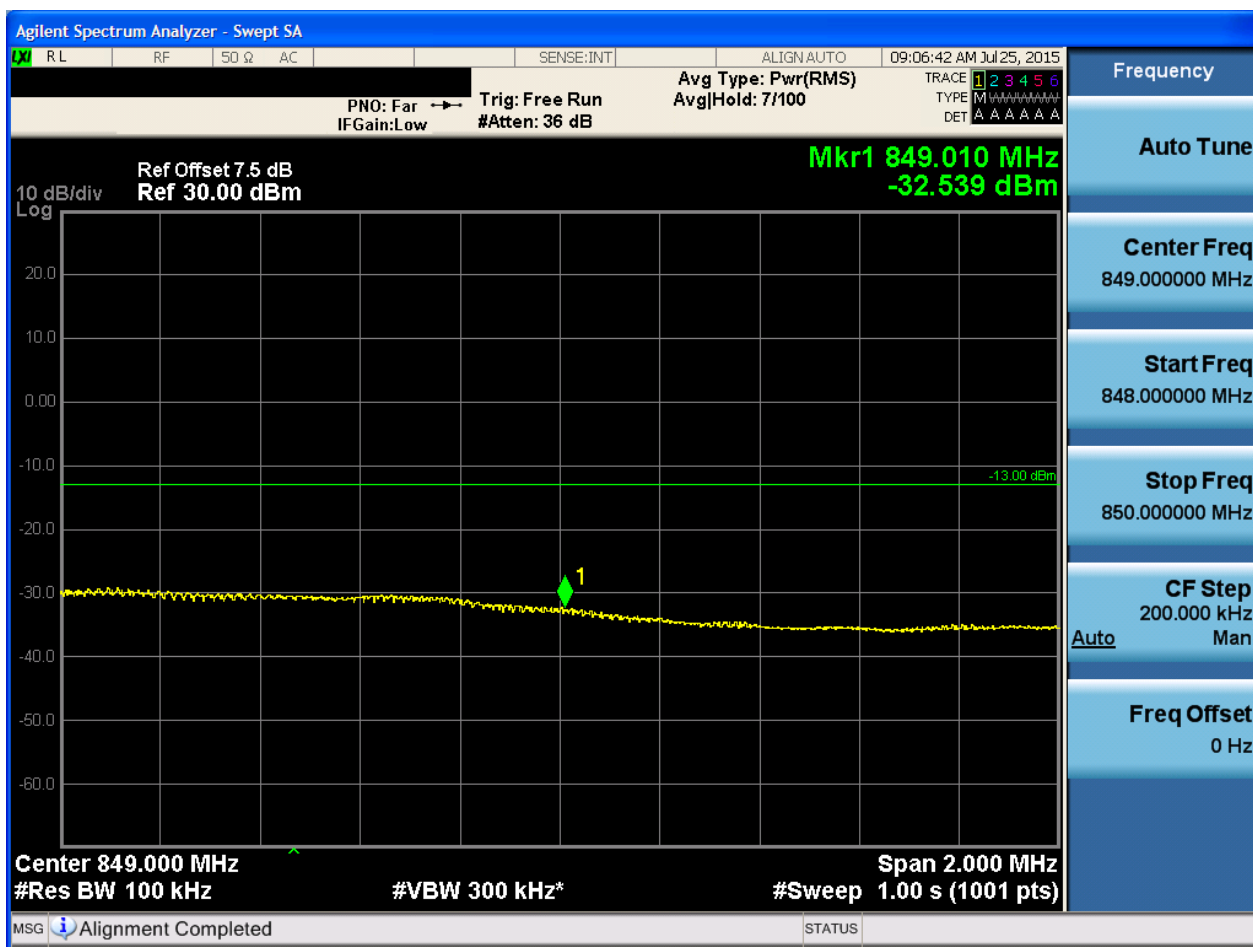
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS



5.1.1.1.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

Xi R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:06:56 AM Jul 25, 2015

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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-29.355 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz

#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz

MSG STATUS

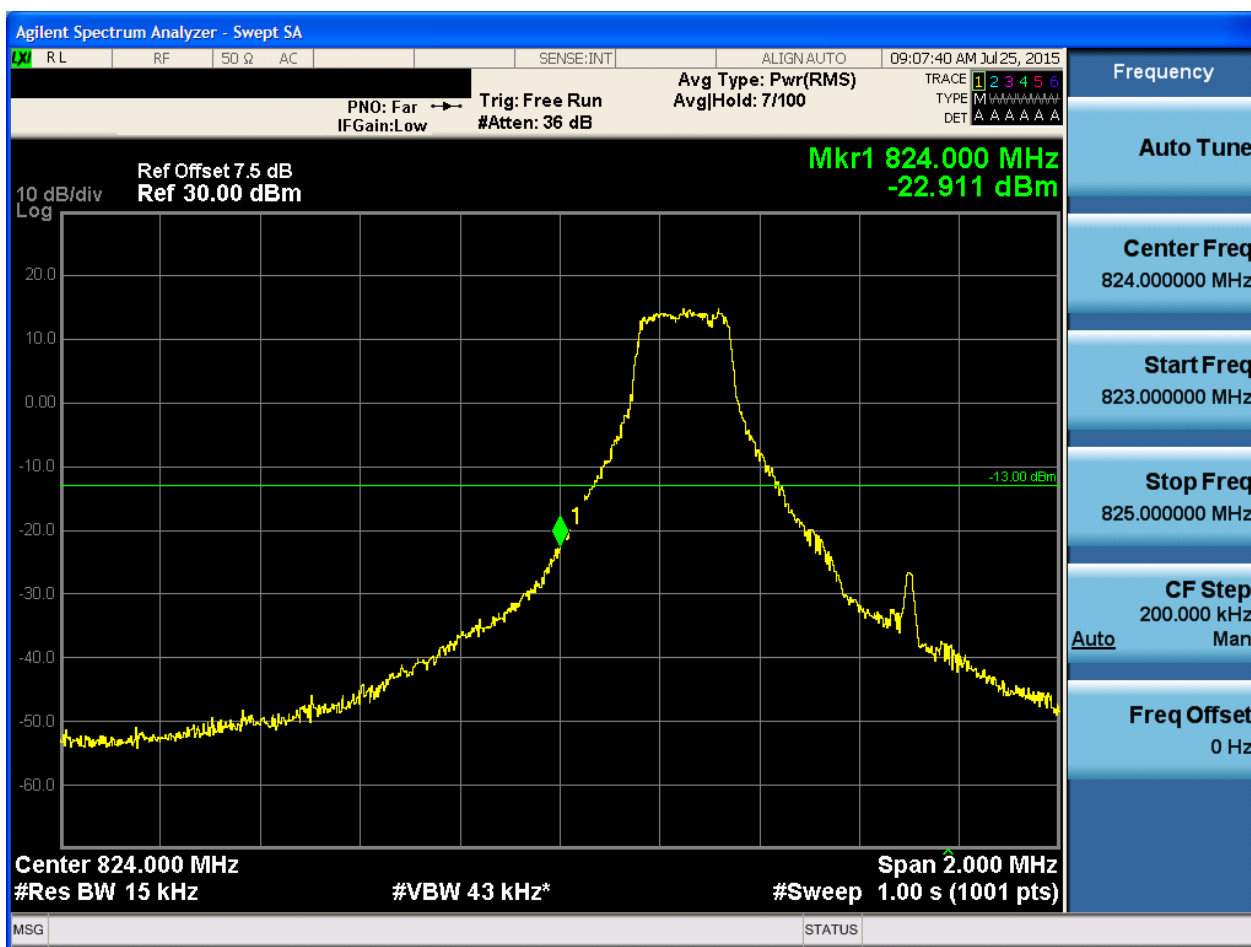


5.1.1.2 Test Mode = LTE/TM2

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



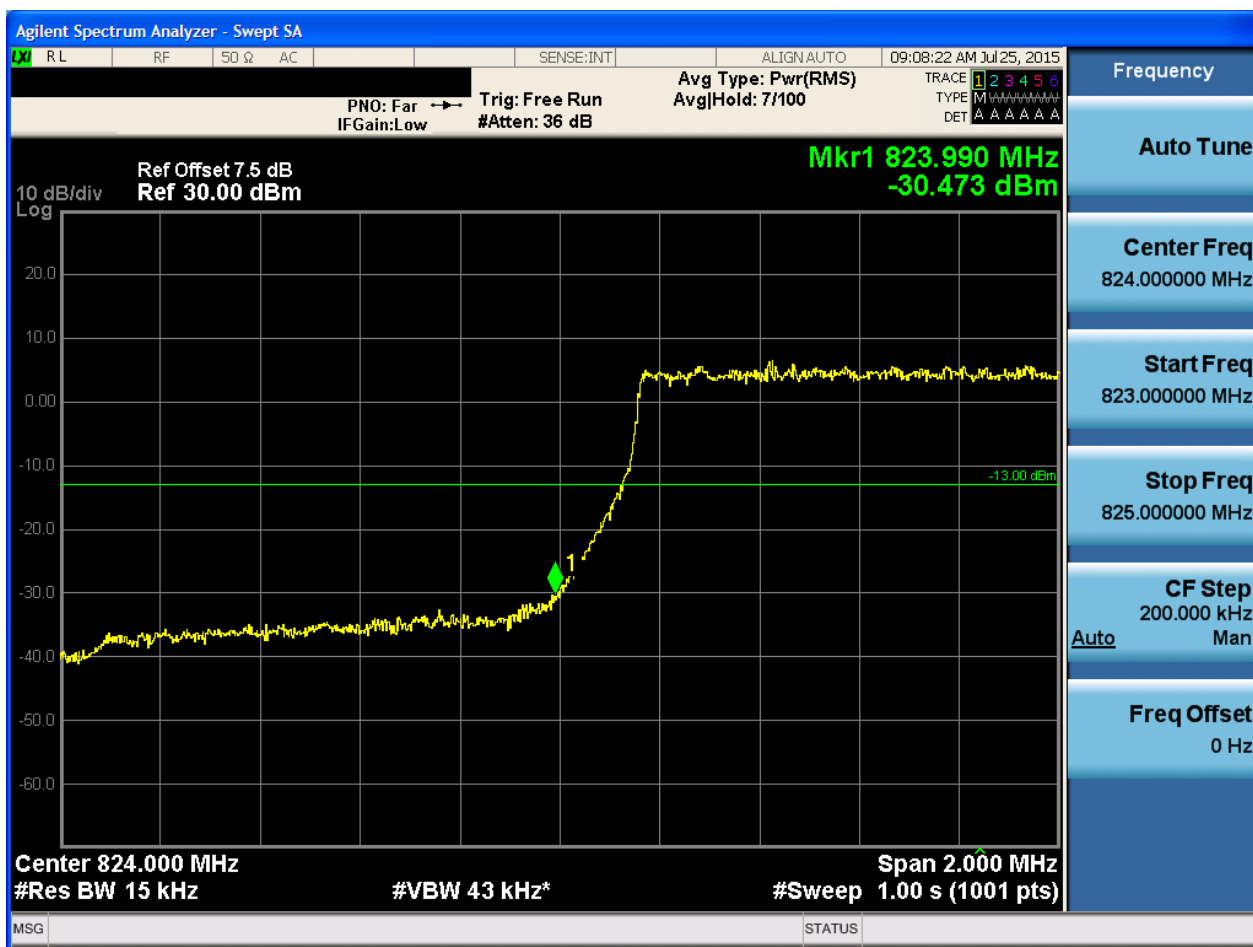


5.1.1.2.1.1.3 Test RB = RB3#2





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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:08:59 AM Jul 25, 2015

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 7.5 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-23.569 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)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:09:13 AM Jul 25, 2015

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 H A A A A A A DET A A A A A A

Ref Offset 7.5 dB Ref 30.00 dBm

Mkr1 849.010 MHz -24.746 dBm

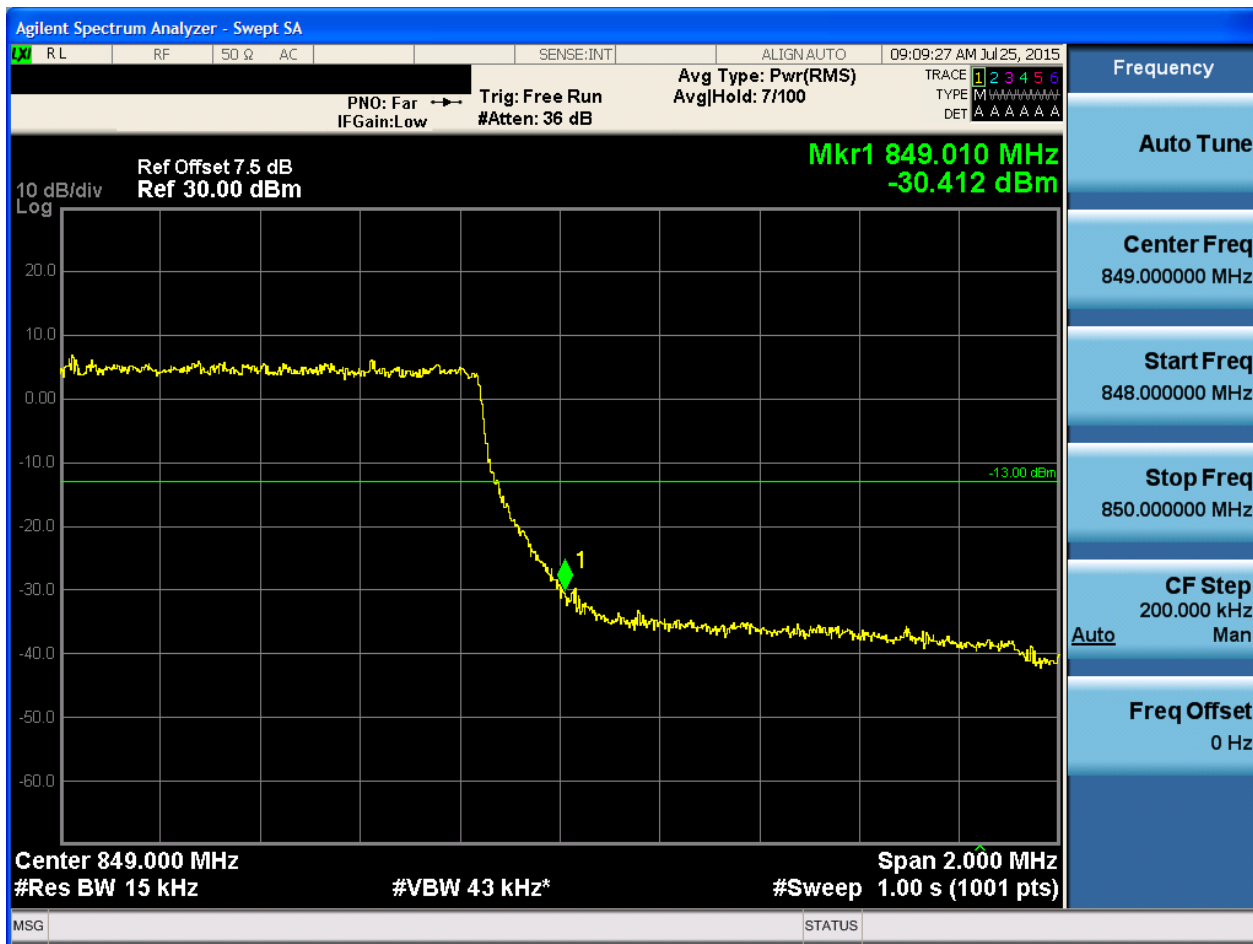
10 dB/div Log

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

MSG STATUS



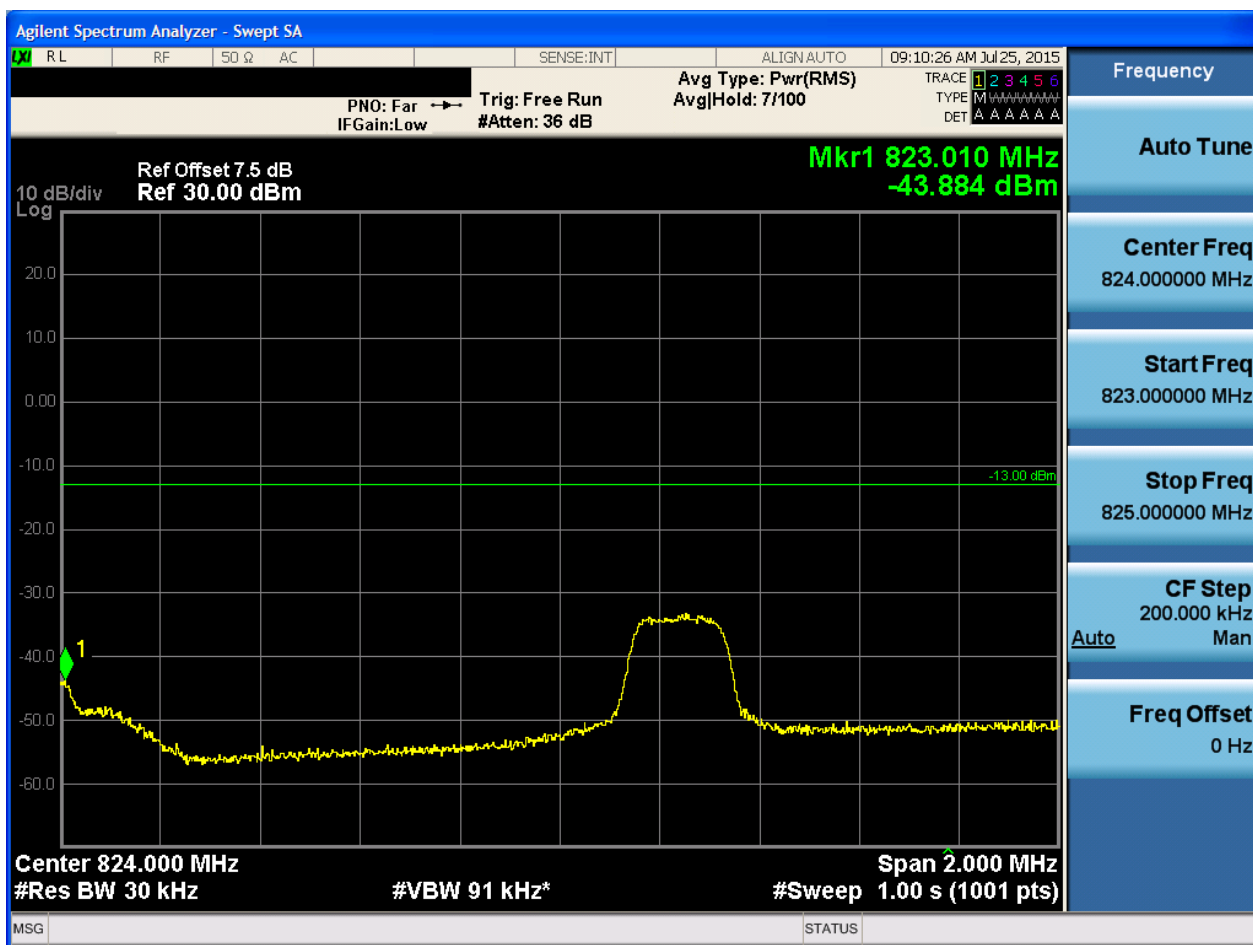
5.1.1.2.1.2.4 Test RB = RB6#0





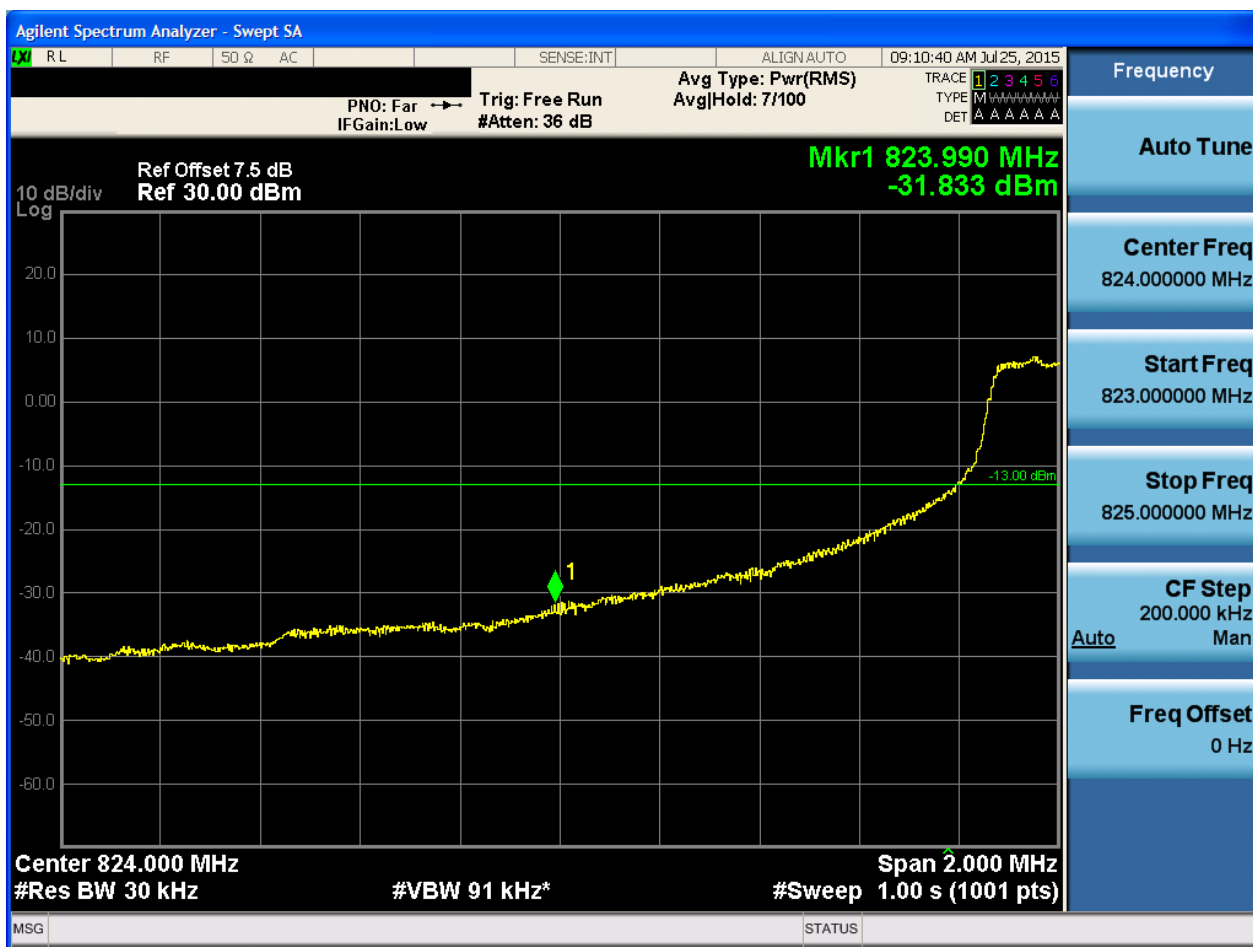


5.1.1.2.2.1.2 Test RB = RB1#14



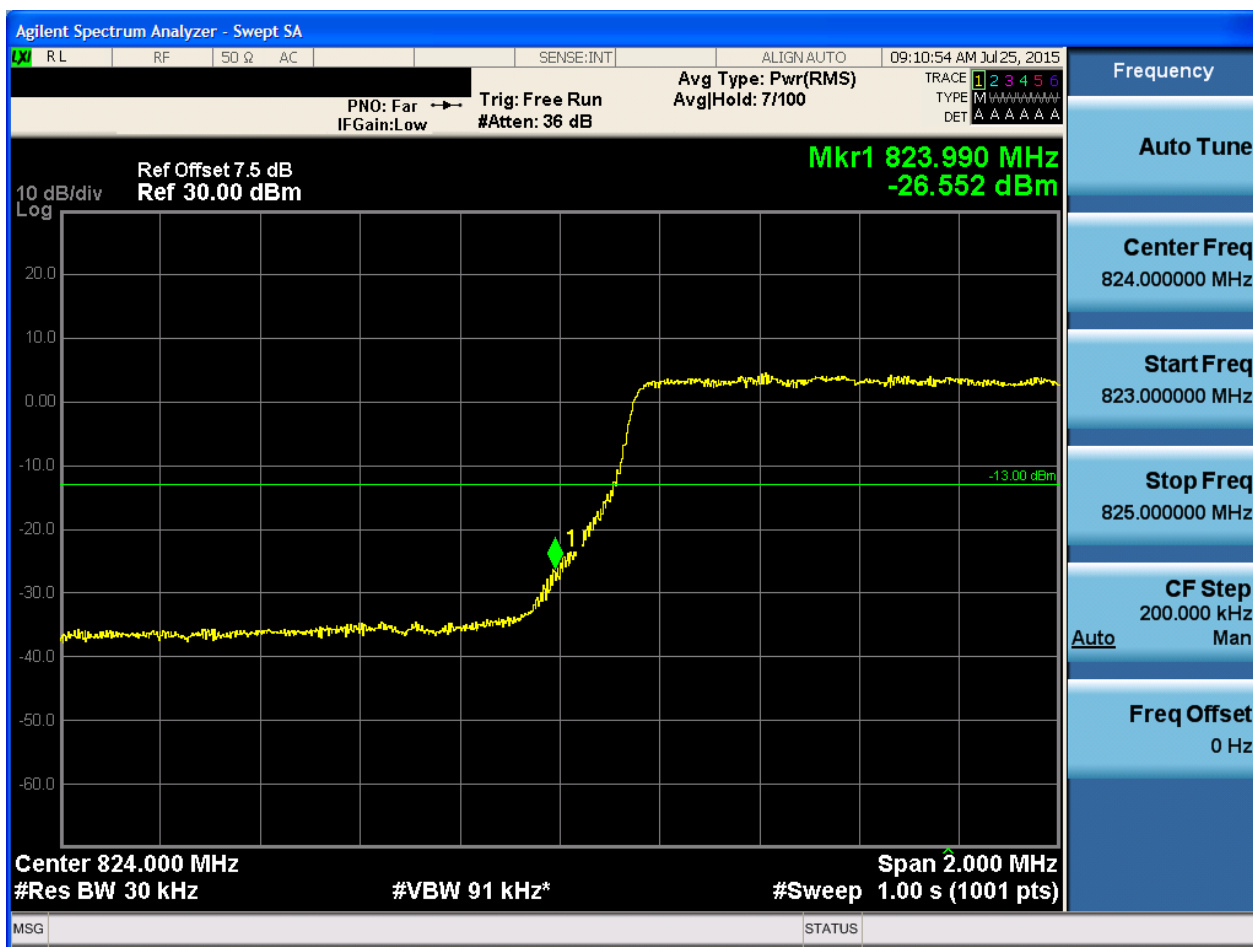


5.1.1.2.2.1.3 Test RB = RB8#4



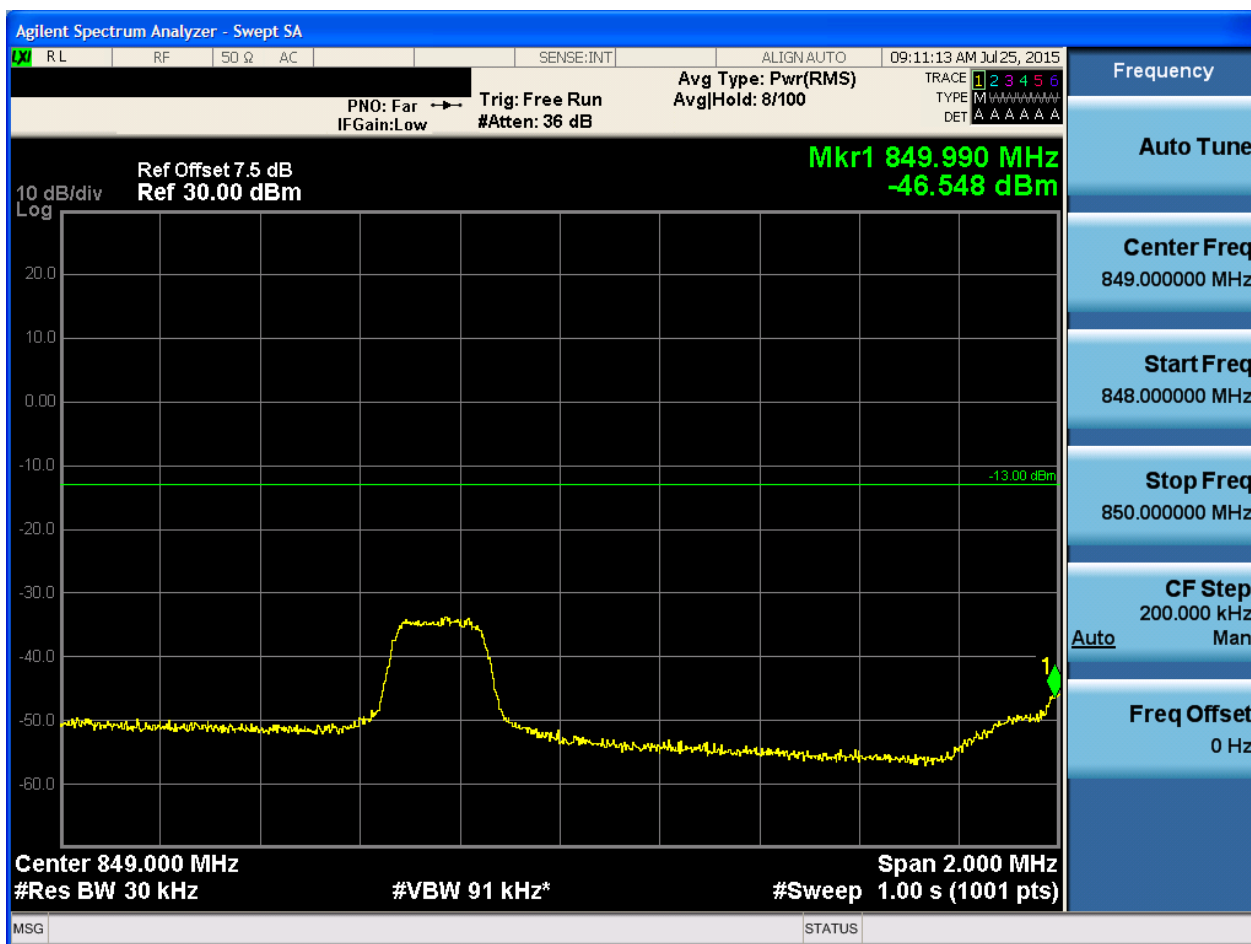


5.1.1.2.2.1.4 Test RB = RB15#0



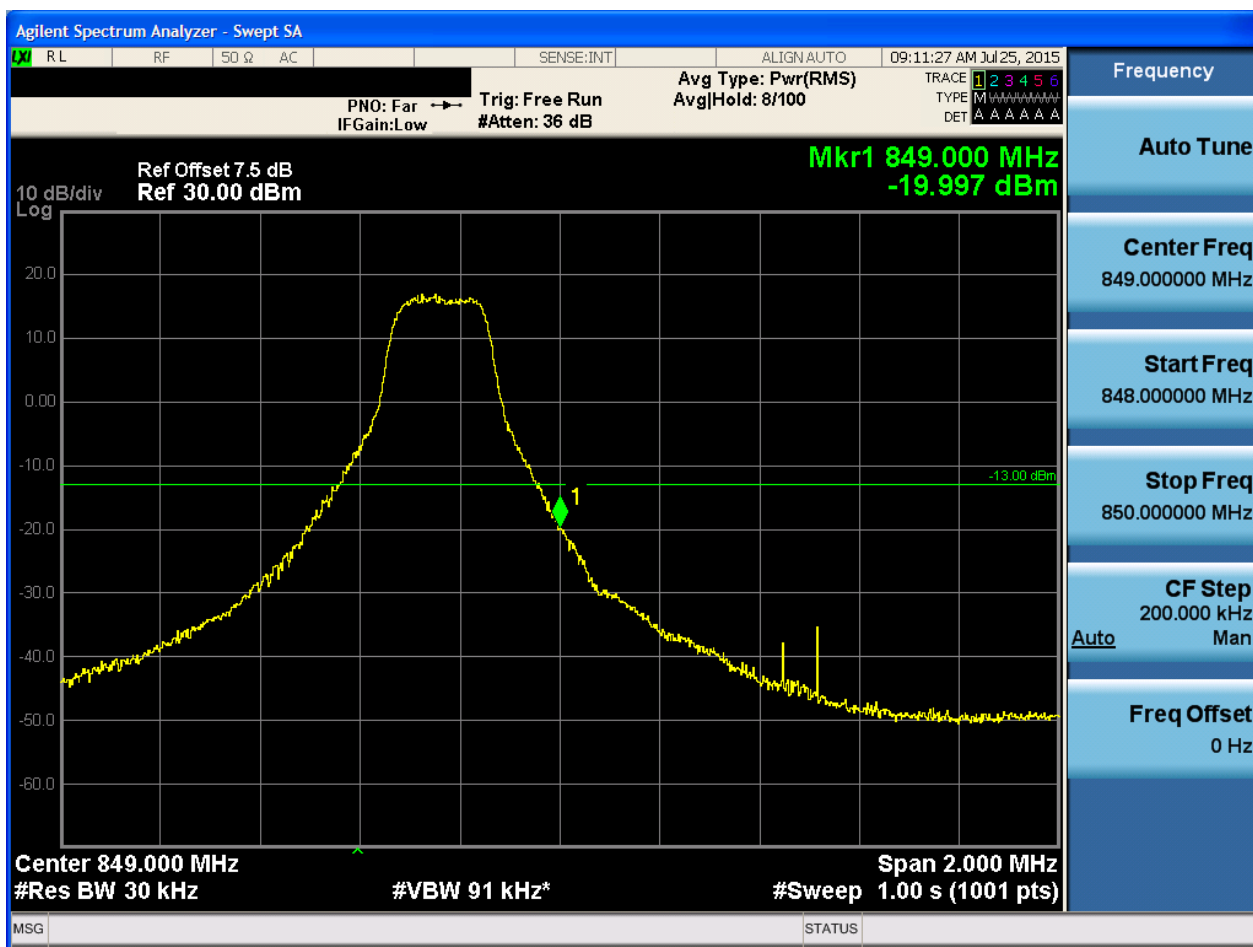
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14



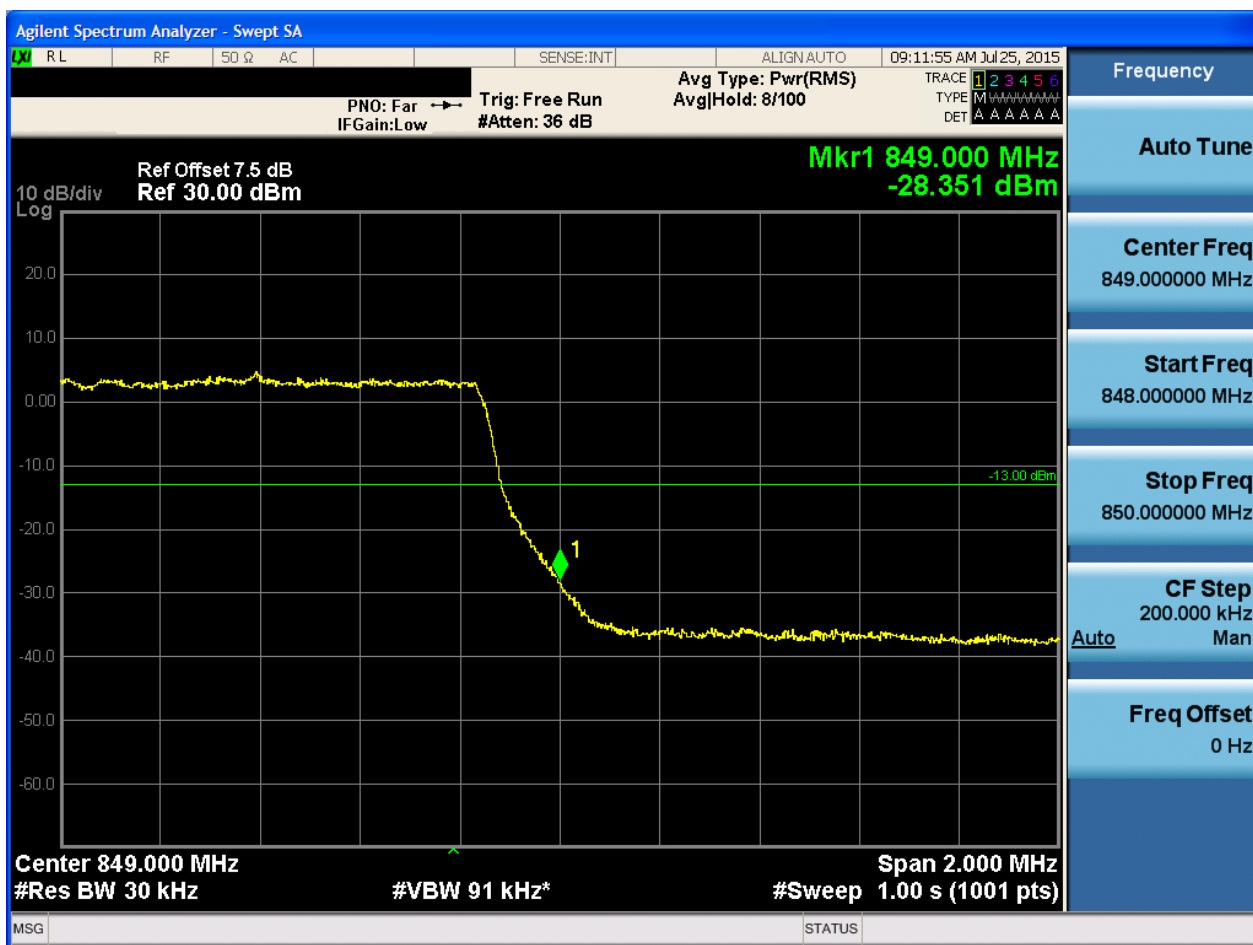


5.1.1.2.2.3 Test RB = RB8#4





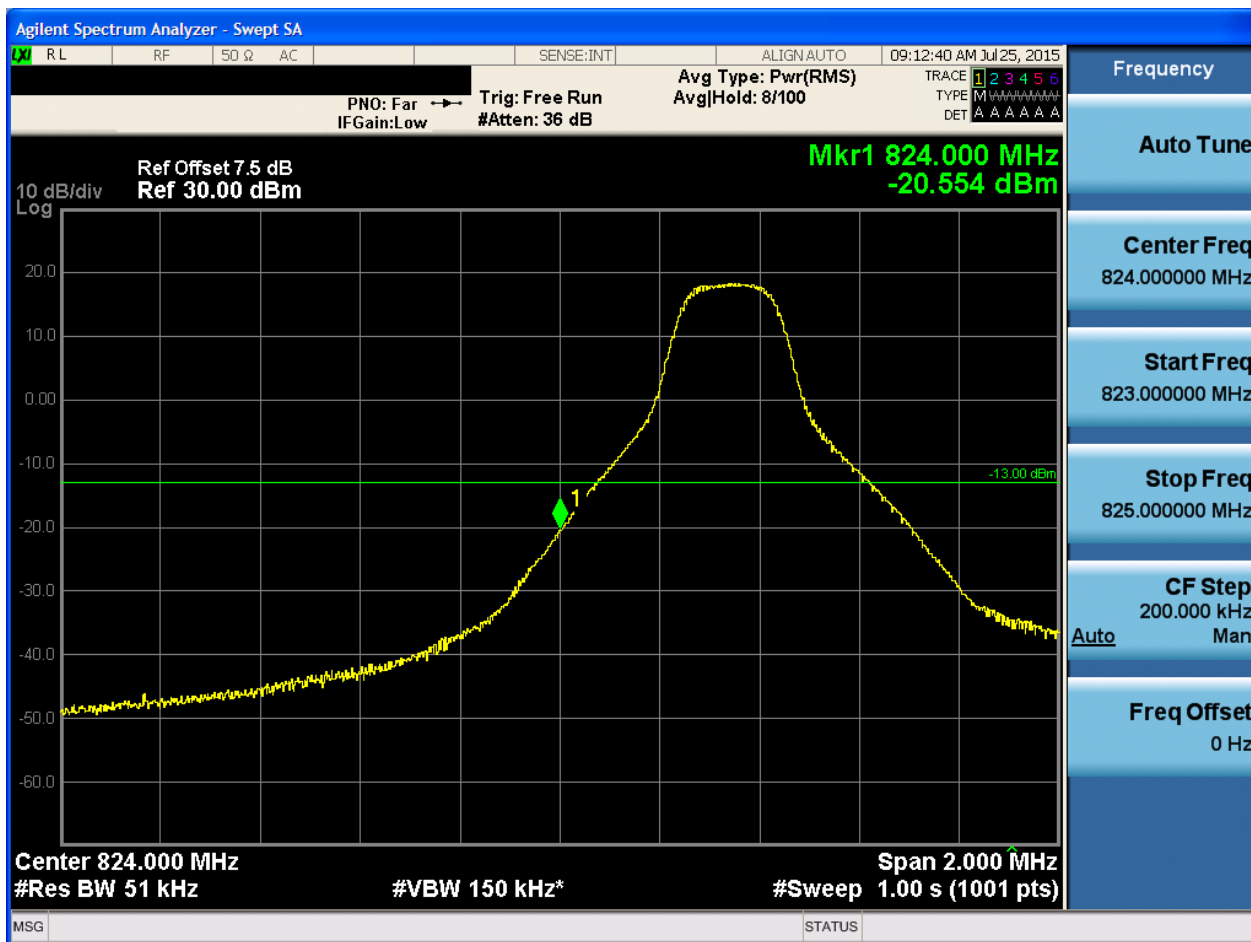
5.1.1.2.2.4 Test RB = RB15#0



5.1.1.2.3 Test Bandwidth = 5

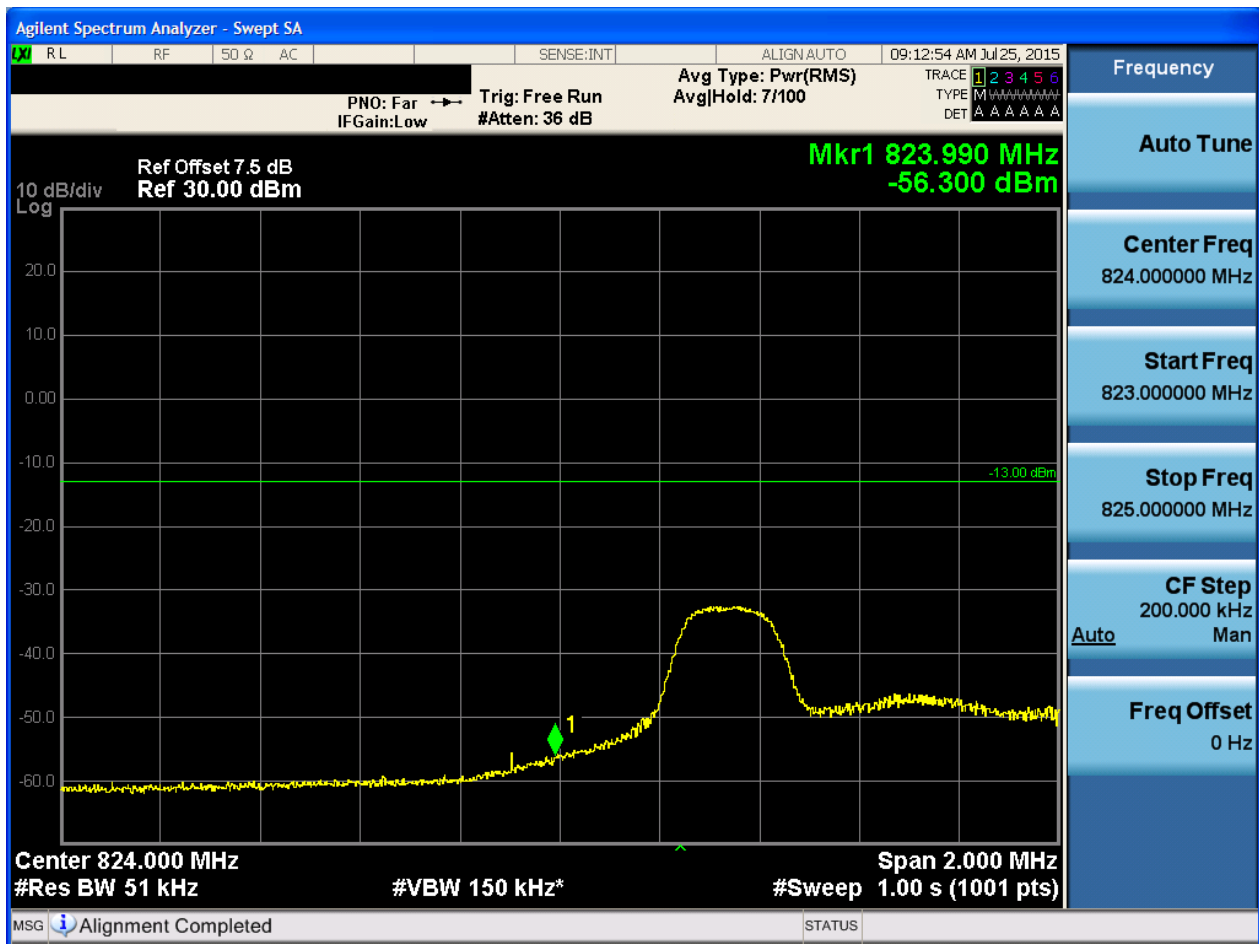
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#24



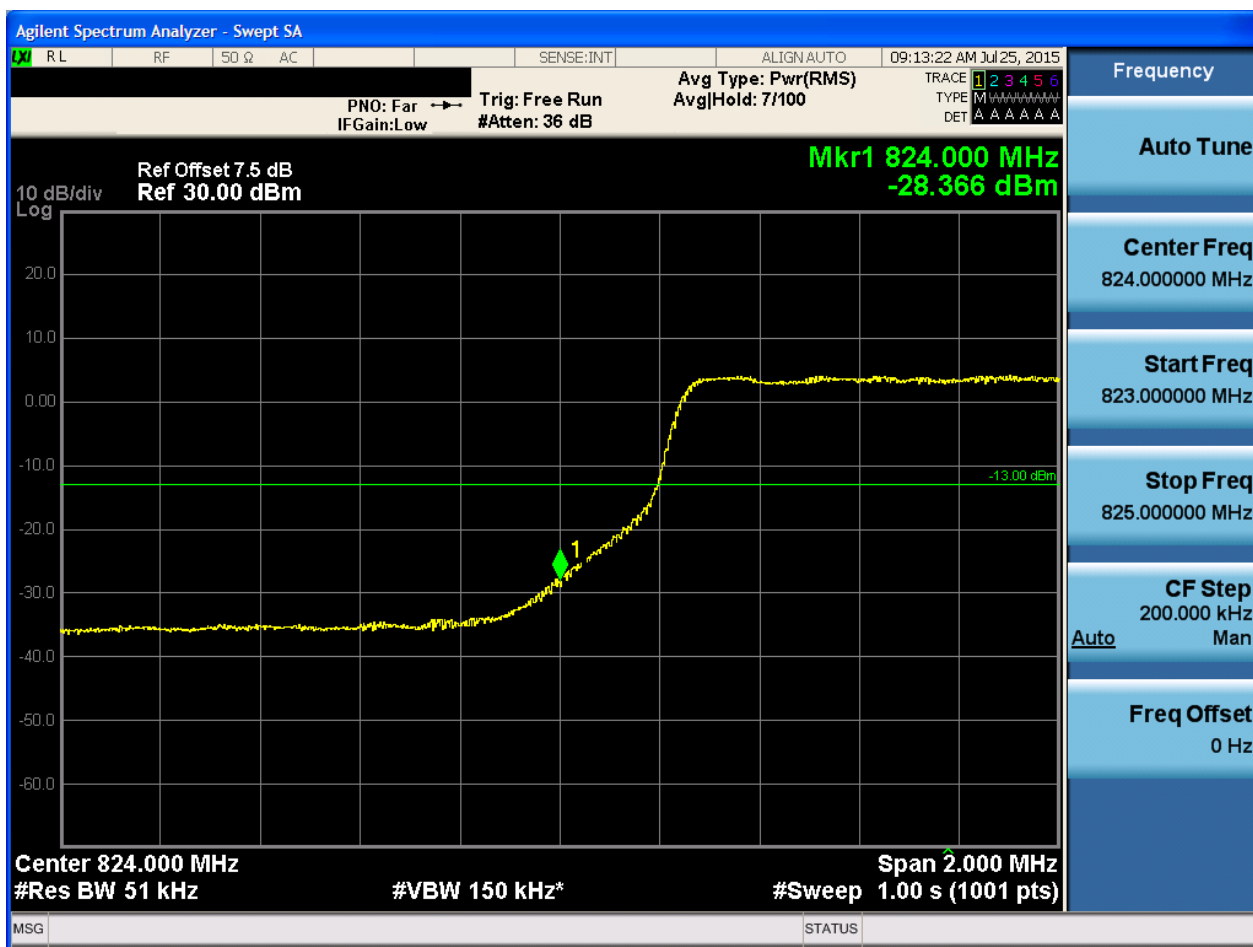


5.1.1.2.3.1.3 Test RB = RB12#6





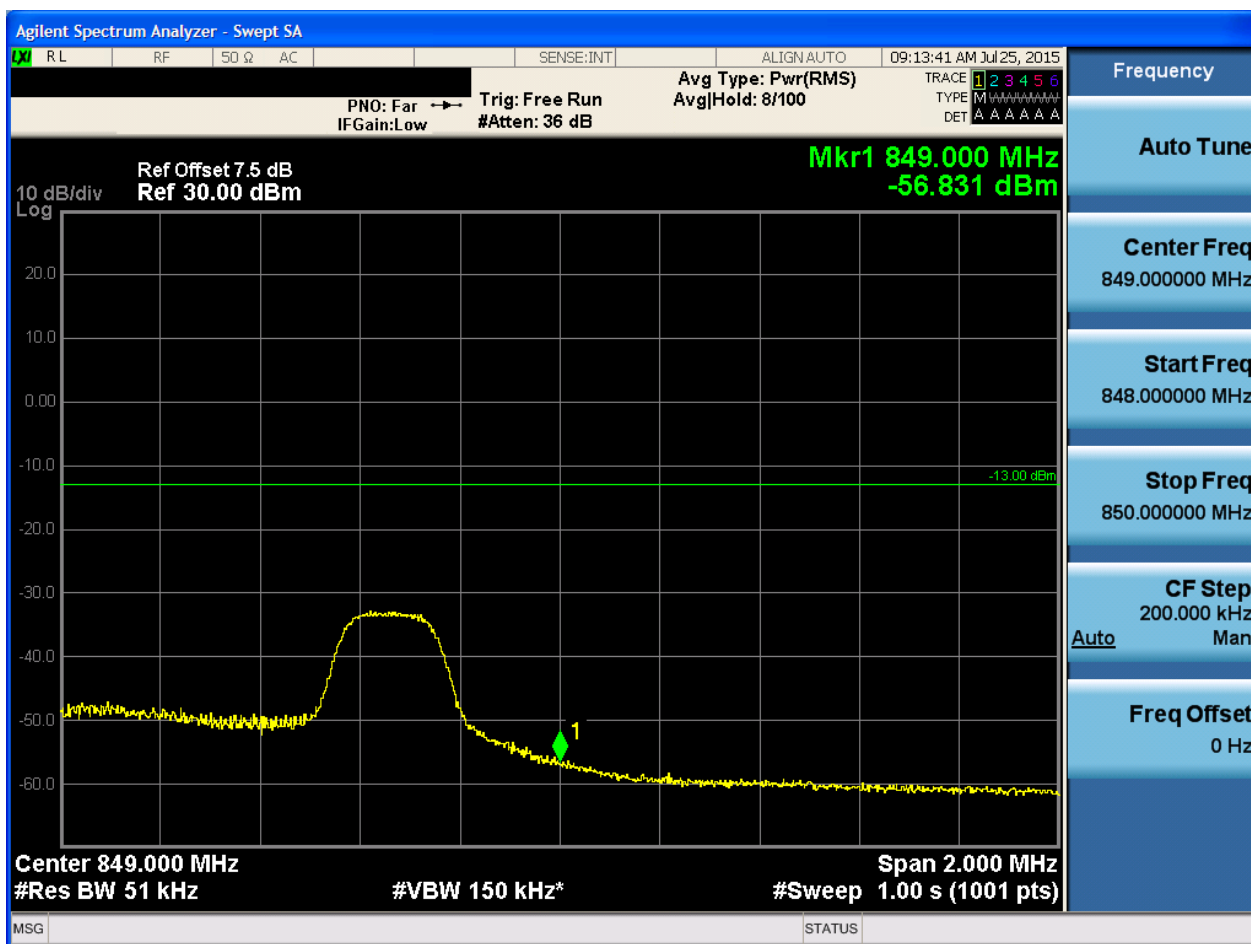
5.1.1.2.3.1.4 Test RB = RB25#0





5.1.1.2.3.2 Test Channel = HCH

5.1.3.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:13:55 AM Jul 25, 2015

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) Trig: Free Run PNO: Far IF Gain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB Ref 30.00 dBm Mkr1 849.000 MHz -21.676 dBm

10 dB/div Log

Center 849.000 MHz #Res BW 51 kHz #VBW 150 kHz* Span 2.000 MHz #Sweep 1.00 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 Man

Auto

Freq Offset 0 Hz



5.1.1.2.3.2.3 Test RB = RB12#6





5.1.1.2.3.2.4 Test RB = RB25#0

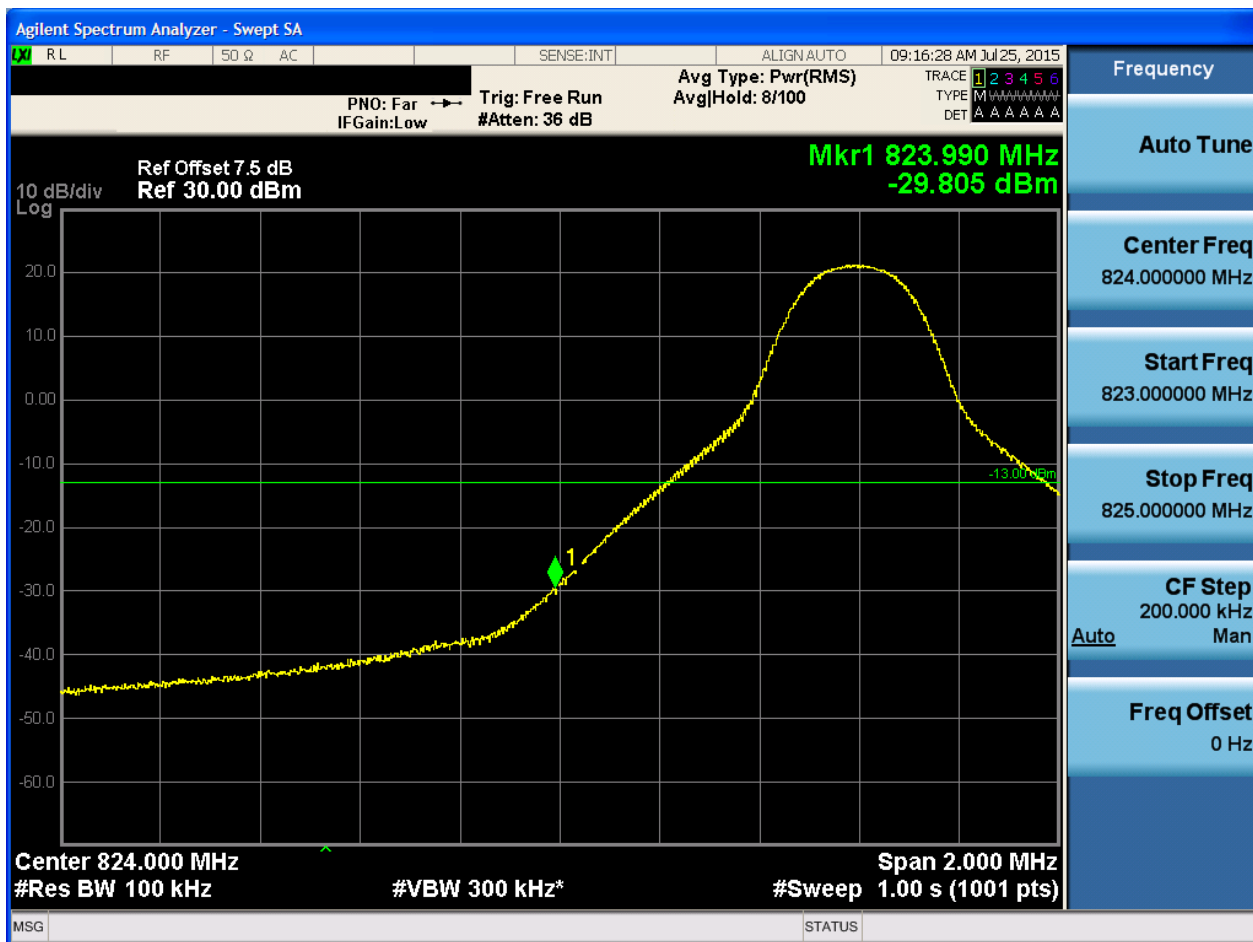




5.1.1.2.4 Test Bandwidth = 10

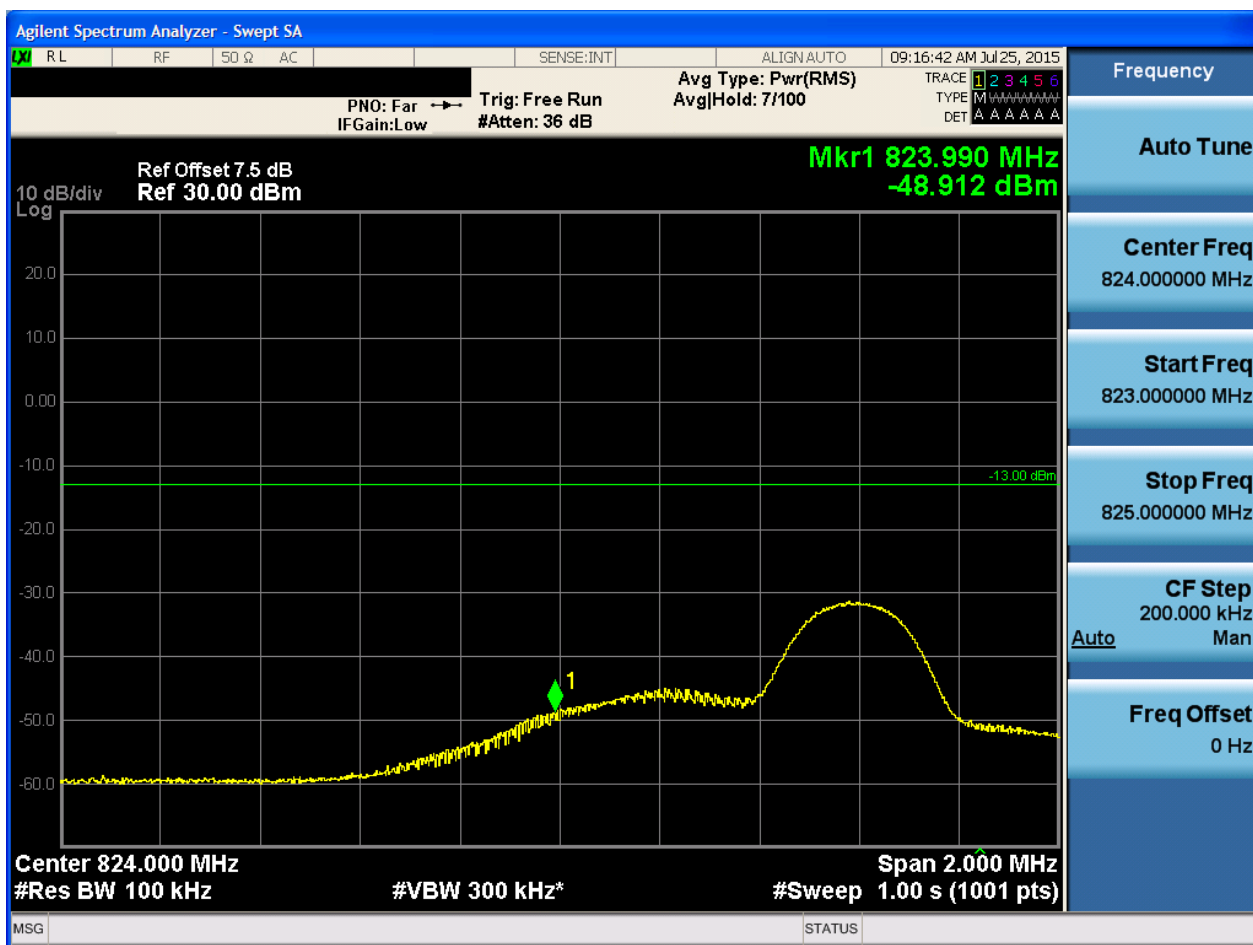
5.1.1.2.4.1 Test Channel = LCH

5.1.3.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#49





5.1.1.2.4.1.3 Test RB = RB25#13





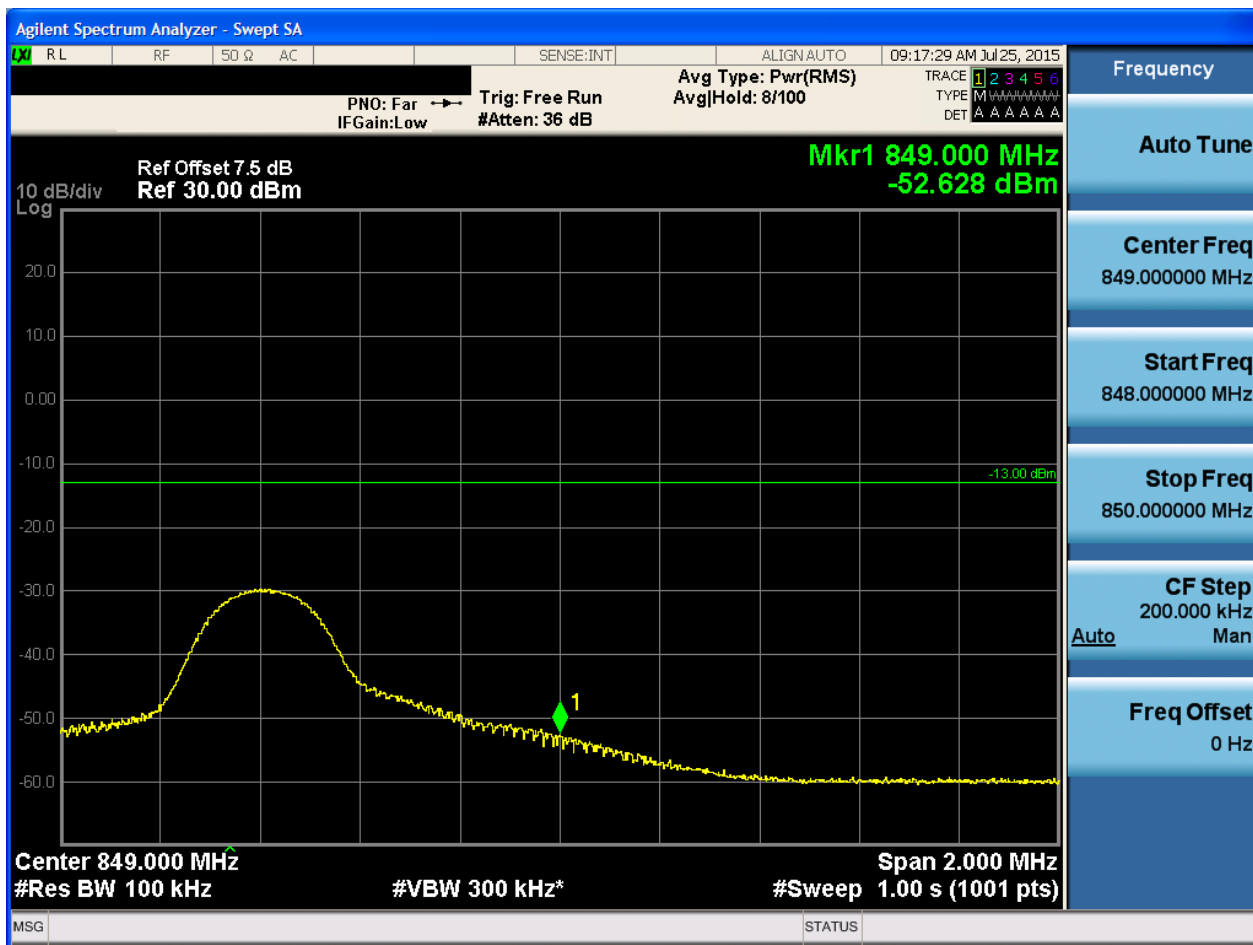
5.1.1.2.4.1.4 Test RB = RB50#0





5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:17:43 AM Jul 25, 2015

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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-28.302 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz

#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz



5.1.1.2.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:18:11 AM Jul 25, 2015

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 *****
 DET A A A A A A

Ref Offset 7.5 dB Mkr1 849.010 MHz
 Ref 30.00 dBm -32.196 dBm

10 dB/div
Log

-13.00 dBm

Center 849.000 MHz Span 2.000 MHz
 #Res BW 100 kHz #VBW 300 kHz* #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
 Auto Man
 Freq Offset 0 Hz

MSG STATUS

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

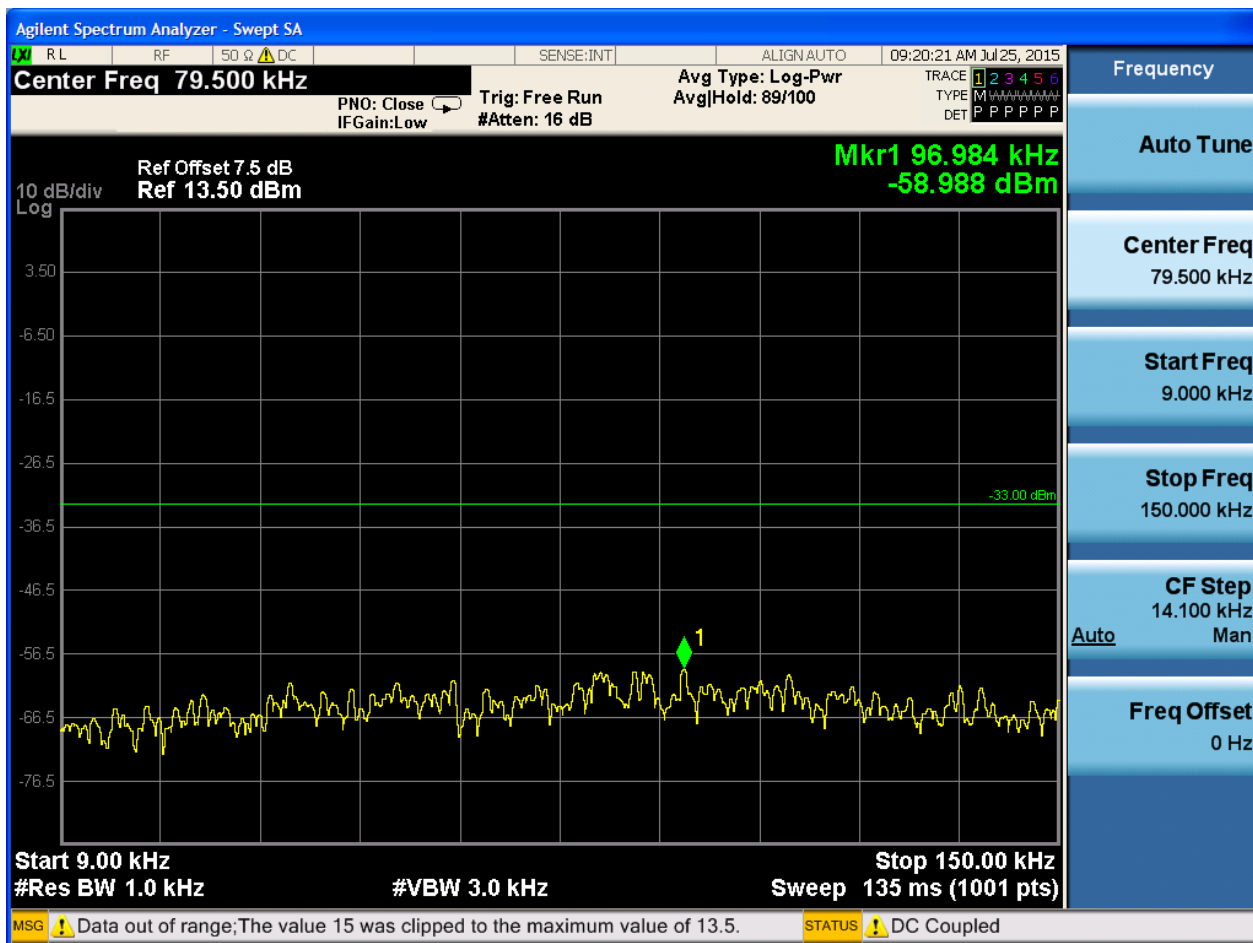
6.1.1 Test Band = BAND5

6.1.1.1 Test Mode = LTE/TM1

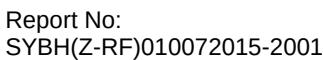
6.1.1.1.1 Test Bandwidth = 1.4

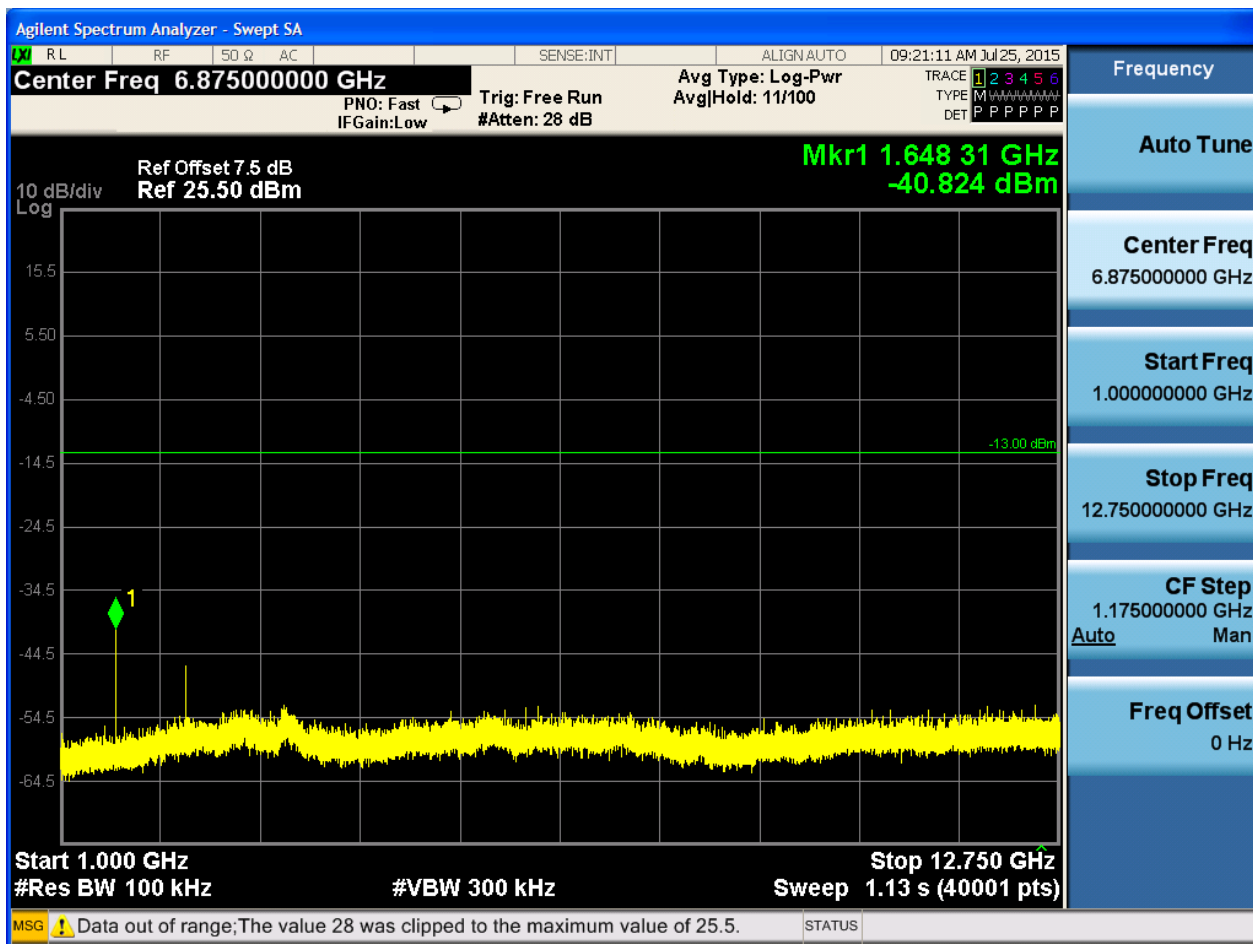
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



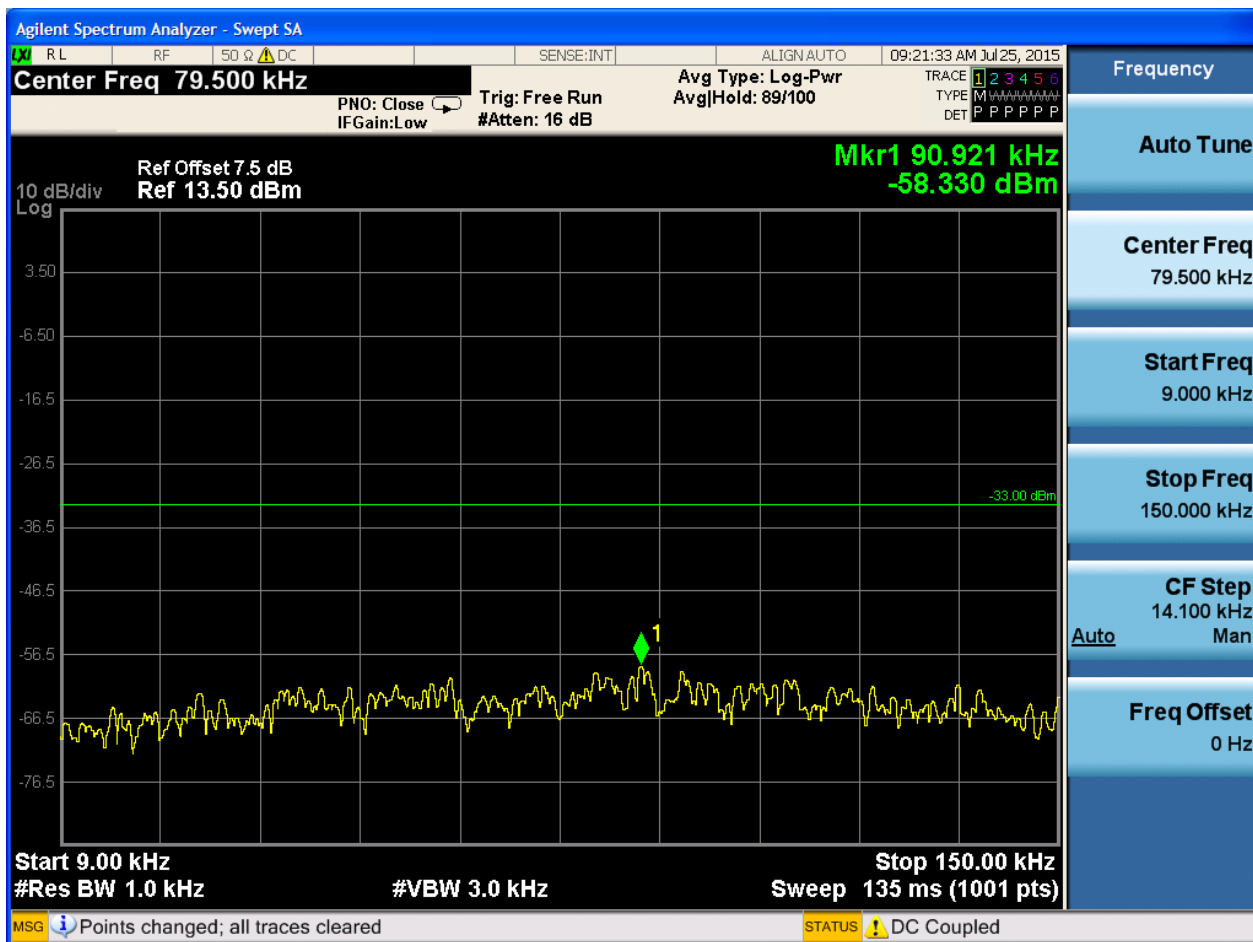


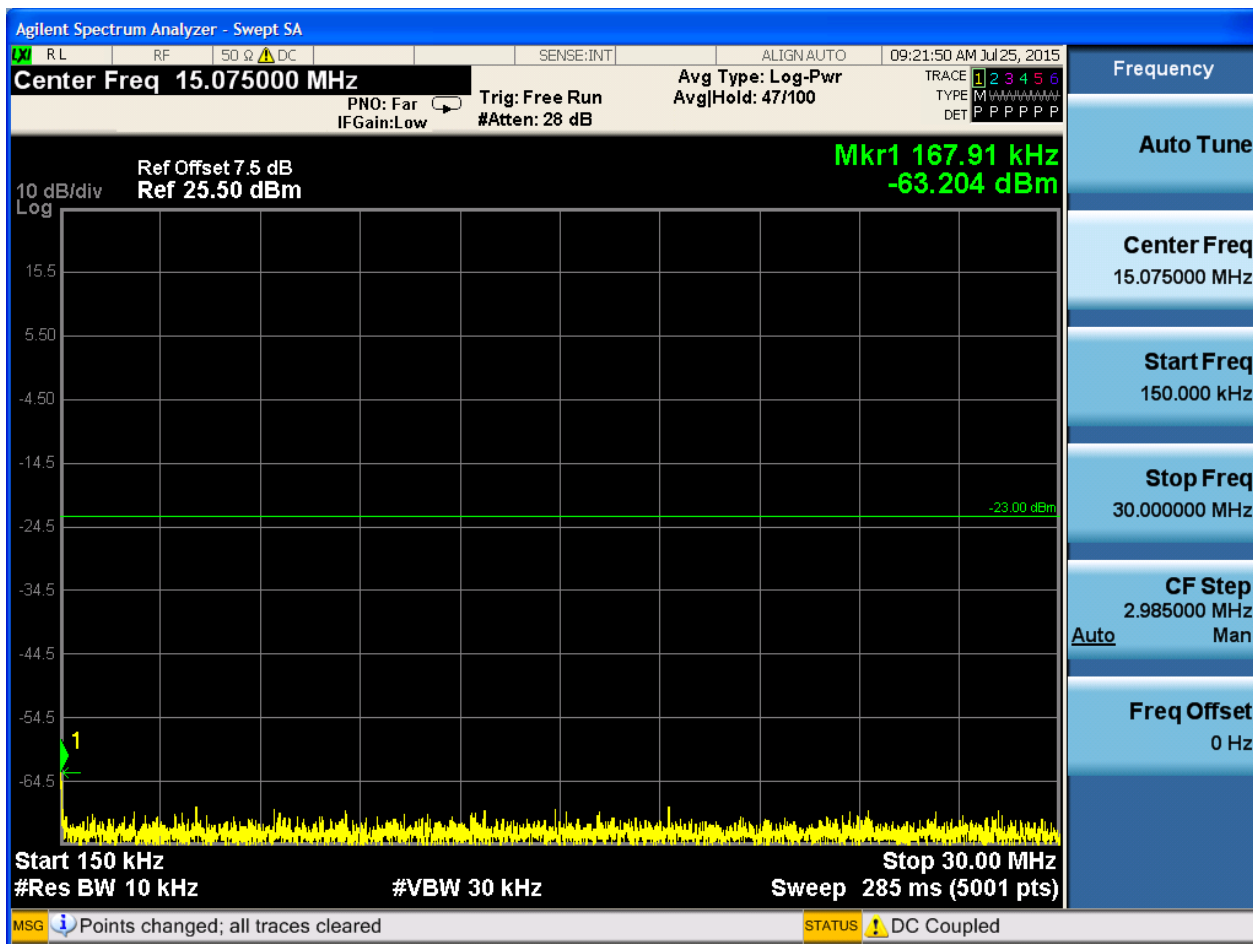


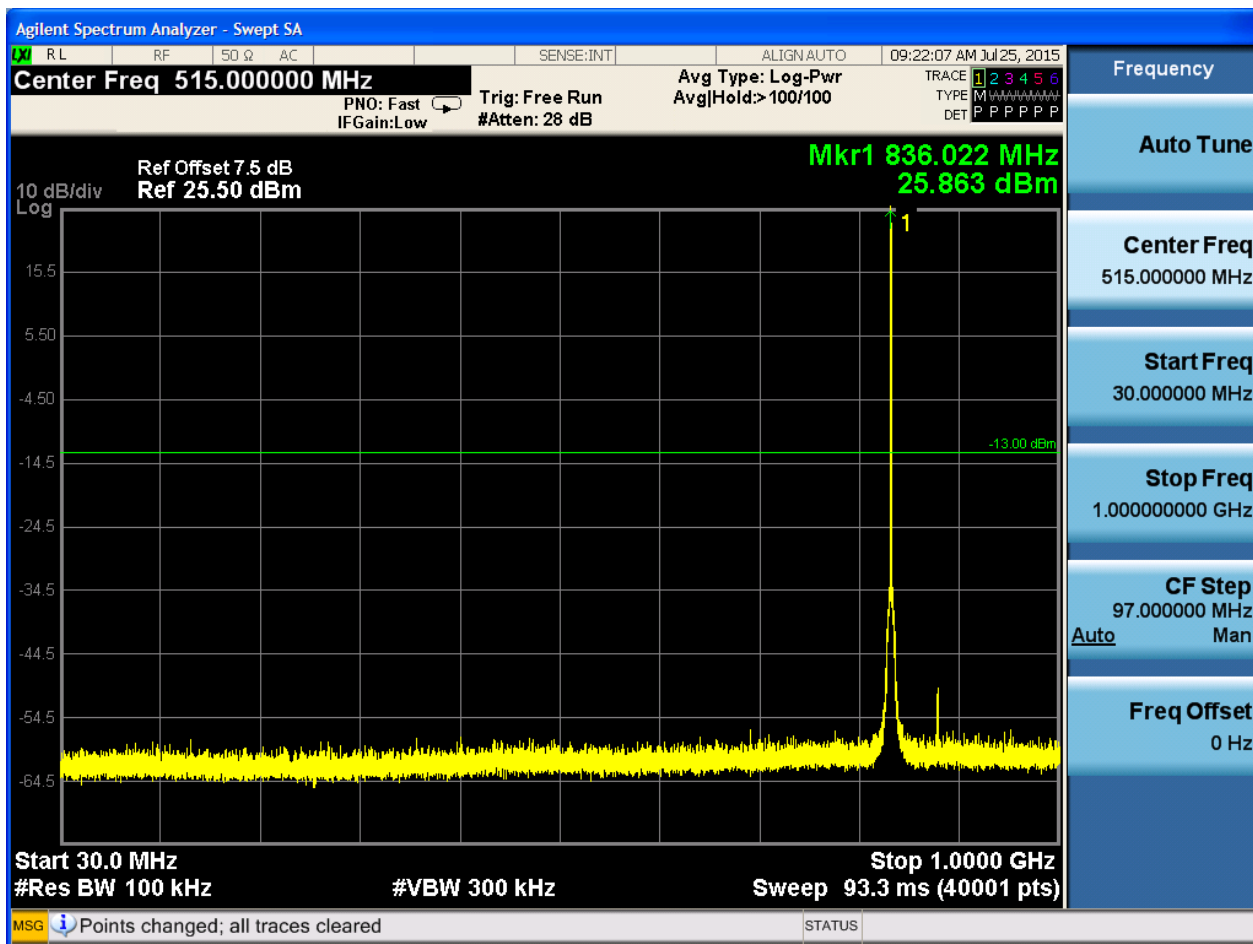


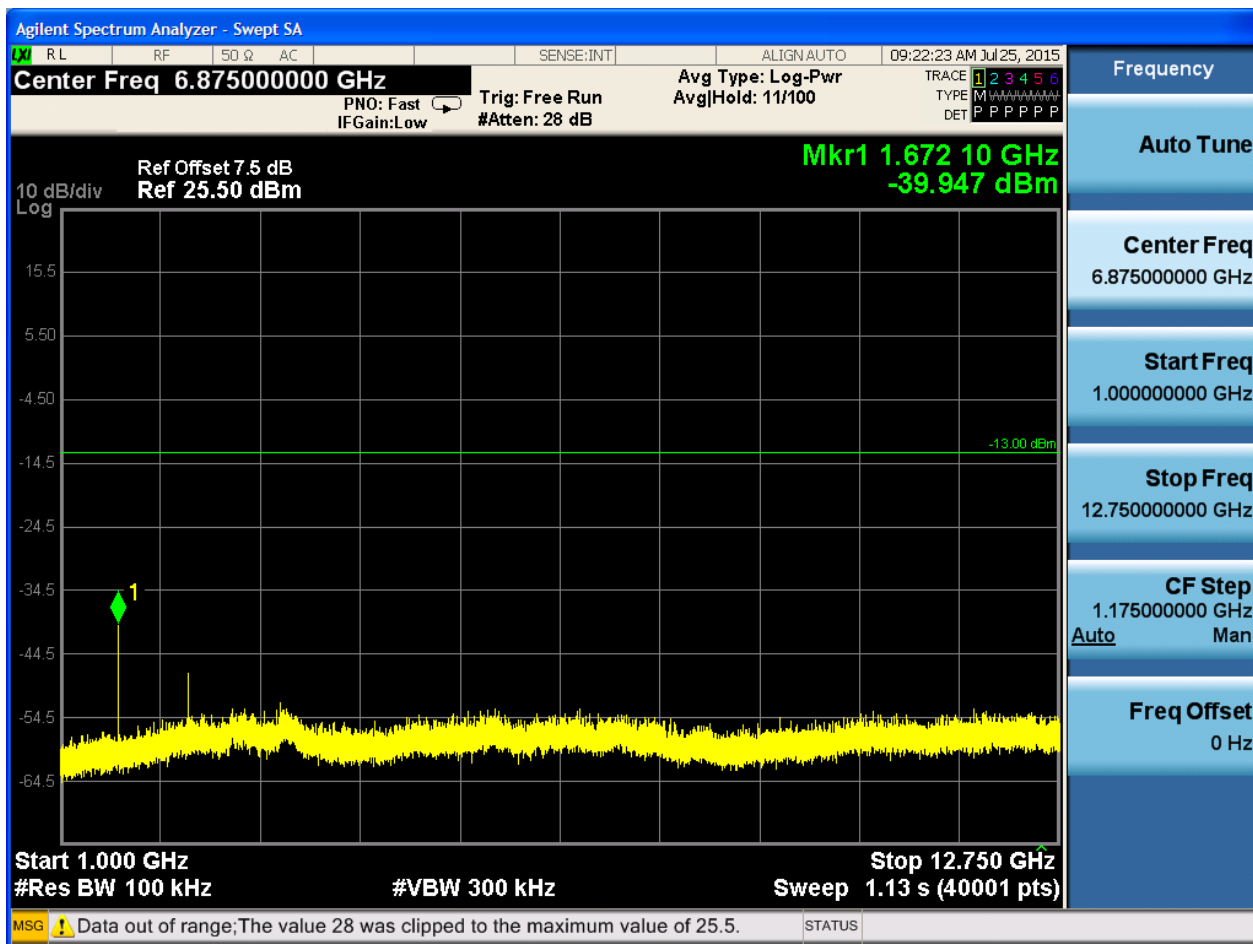
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



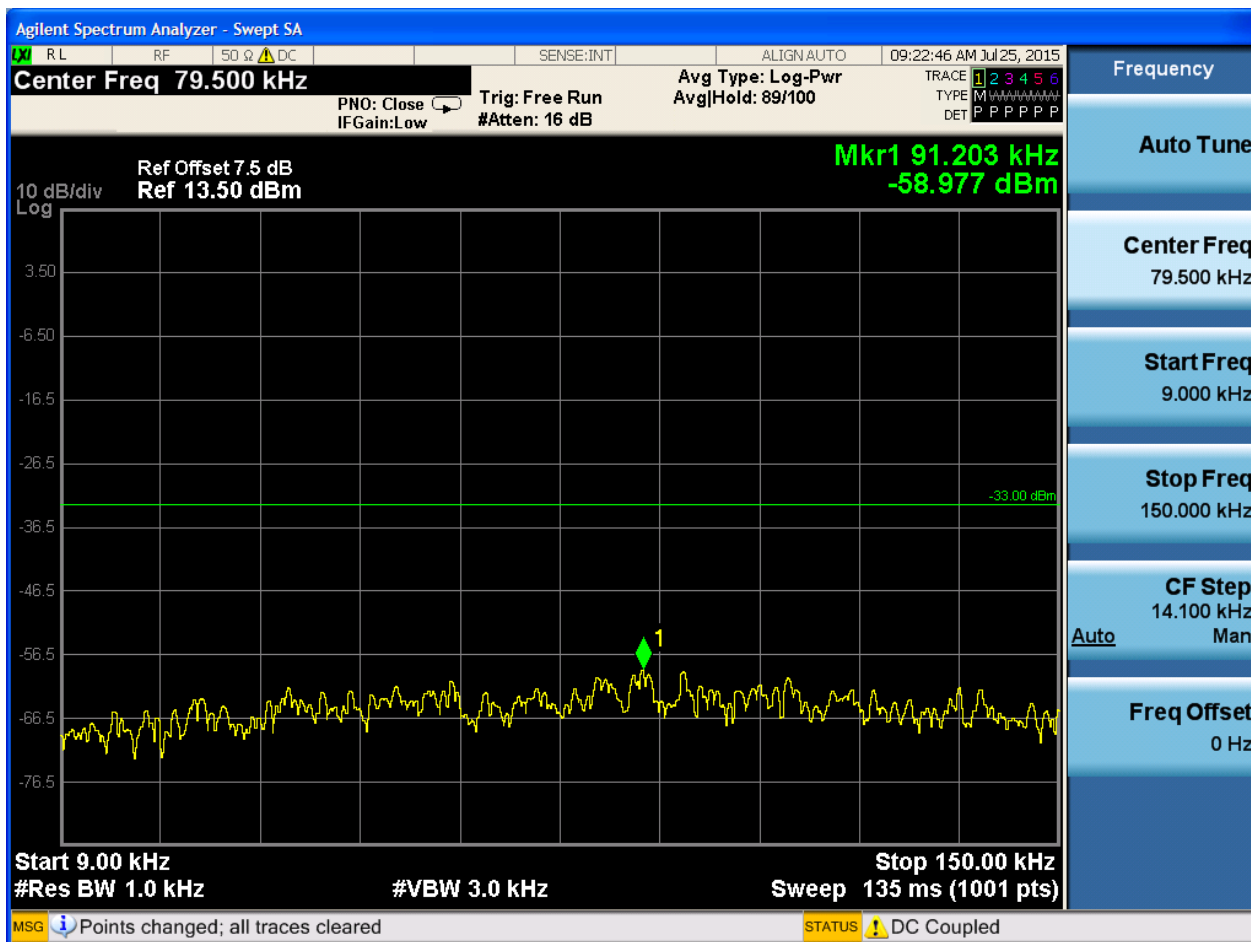




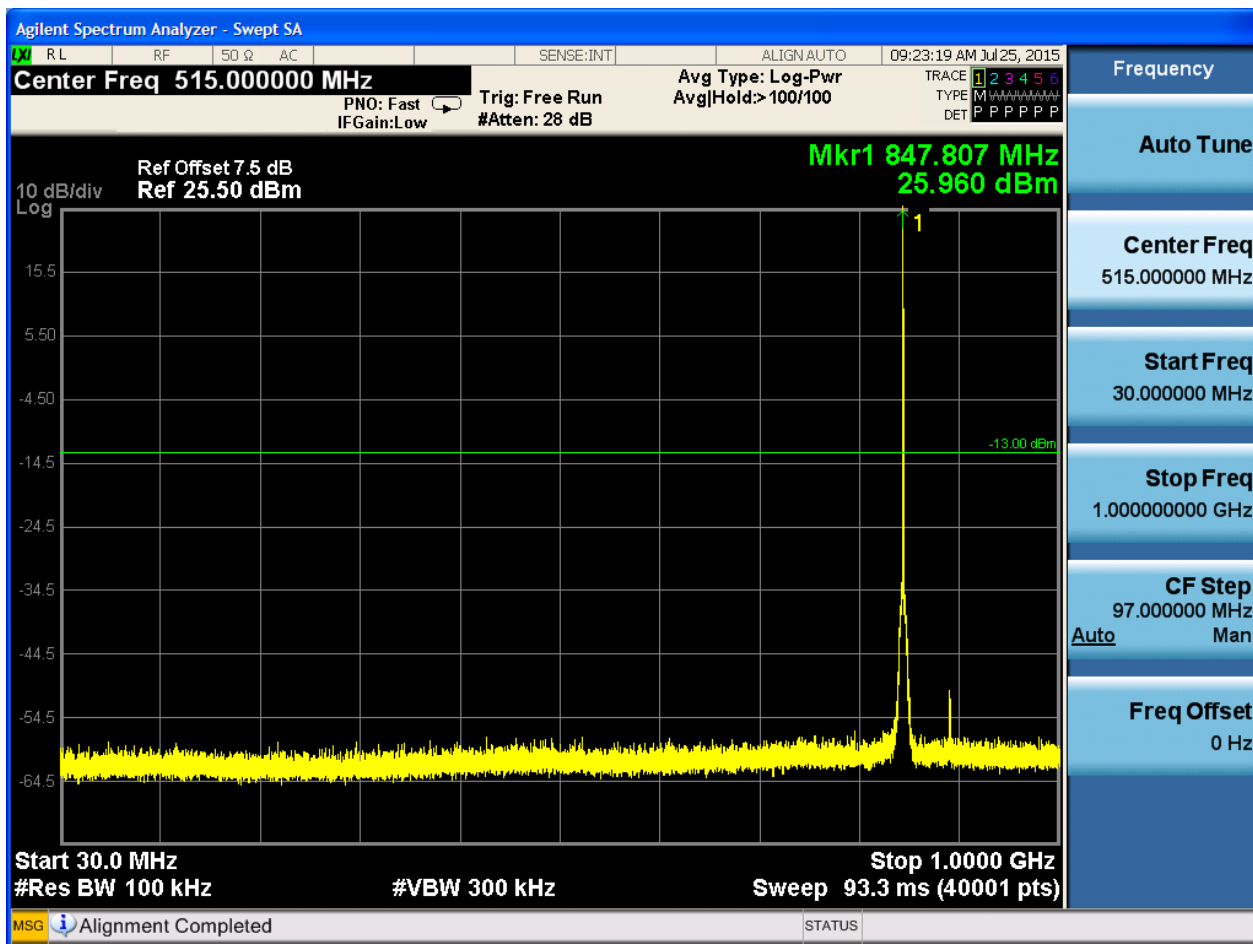


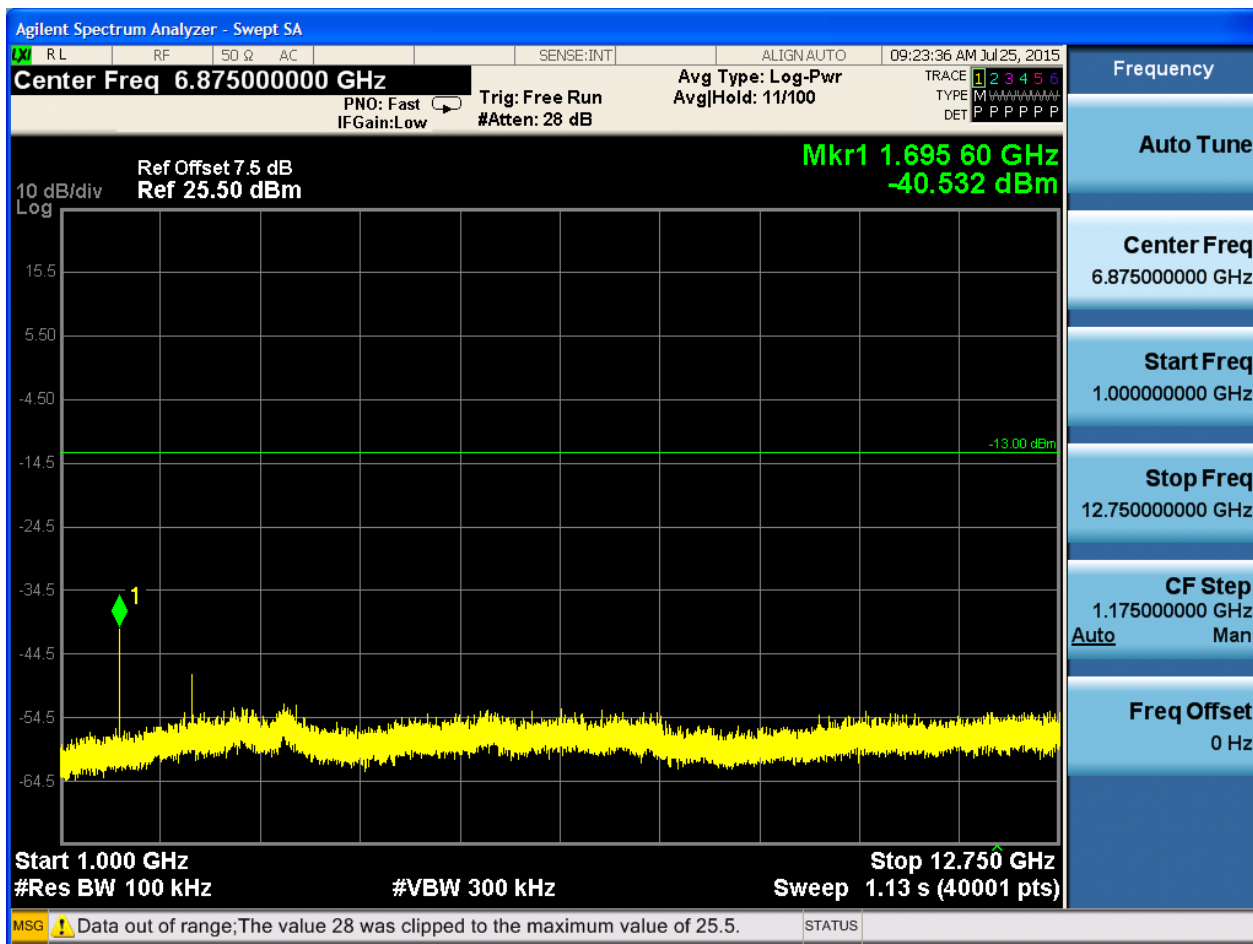
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 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

