



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]	EIRP [dBm]	Limit [dBm]	Verdict
BAND41	LTE/TM1	5	LCH	RB1#0	22.38	23.88	33	PASS
				RB1#13	22.05	23.55	33	PASS
				RB1#24	22.26	23.76	33	PASS
				RB12#0	22.77	24.27	33	PASS
				RB12#6	22.81	24.31	33	PASS
				RB12#13	22.7	24.2	33	PASS
				RB25#0	22.69	24.19	33	PASS
			MCH	RB1#0	22.84	24.34	33	PASS
				RB1#13	22.81	24.31	33	PASS
				RB1#24	22.88	24.38	33	PASS
				RB12#0	23.44	24.94	33	PASS
				RB12#6	23.44	24.94	33	PASS
				RB12#13	23.41	24.91	33	PASS
				RB25#0	23.42	24.92	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.98	24.48	33	PASS
				RB1#13	22.56	24.06	33	PASS
				RB1#24	22.78	24.28	33	PASS
				RB12#0	23.3	24.8	33	PASS
				RB12#6	23.27	24.77	33	PASS
				RB12#13	23.11	24.61	33	PASS
				RB25#0	23.25	24.75	33	PASS
		10	LCH	RB1#0	22.12	23.62	33	PASS
				RB1#25	22.08	23.58	33	PASS
				RB1#49	22.33	23.83	33	PASS
				RB25#0	22.81	24.31	33	PASS
				RB25#13	22.89	24.39	33	PASS
				RB25#25	22.86	24.36	33	PASS
				RB50#0	22.72	24.22	33	PASS
			MCH	RB1#0	22.73	24.23	33	PASS
				RB1#25	22.46	23.96	33	PASS
				RB1#49	22.68	24.18	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	23.33	24.83	33	PASS
				RB25#13	23.47	24.97	33	PASS
				RB25#25	23.35	24.85	33	PASS
				RB50#0	23.36	24.86	33	PASS
			HCH	RB1#0	23.13	24.63	33	PASS
				RB1#25	22.34	23.84	33	PASS
				RB1#49	22.79	24.29	33	PASS
				RB25#0	23.42	24.92	33	PASS
				RB25#13	23.3	24.8	33	PASS
				RB25#25	23.17	24.67	33	PASS
				RB50#0	23.26	24.76	33	PASS
		15	LCH	RB1#0	22.04	23.54	33	PASS
				RB1#38	22.29	23.79	33	PASS
				RB1#74	22.43	23.93	33	PASS
				RB36#0	22.71	24.21	33	PASS
				RB36#18	22.94	24.44	33	PASS
				RB36#39	22.84	24.34	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	22.65	24.15	33	PASS
			MCH	RB1#0	22.76	24.26	33	PASS
				RB1#38	22.72	24.22	33	PASS
				RB1#74	22.53	24.03	33	PASS
				RB36#0	23.23	24.73	33	PASS
				RB36#18	23.4	24.9	33	PASS
				RB36#39	23.25	24.75	33	PASS
				RB75#0	23.26	24.76	33	PASS
			HCH	RB1#0	22.93	24.43	33	PASS
				RB1#38	22.83	24.33	33	PASS
				RB1#74	22.7	24.2	33	PASS
				RB36#0	23.38	24.88	33	PASS
				RB36#18	23.4	24.9	33	PASS
				RB36#39	23.17	24.67	33	PASS
				RB75#0	23.18	24.68	33	PASS
		20	LCH	RB1#0	22.42	23.92	33	PASS
				RB1#50	22.5	24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.81	24.31	33	PASS
				RB50#0	22.92	24.42	33	PASS
				RB50#25	23.1	24.6	33	PASS
				RB50#50	22.9	24.4	33	PASS
				RB100#0	22.85	24.35	33	PASS
			MCH	RB1#0	22.87	24.37	33	PASS
				RB1#50	22.74	24.24	33	PASS
				RB1#99	22.79	24.29	33	PASS
				RB50#0	23.3	24.8	33	PASS
				RB50#25	23.47	24.97	33	PASS
				RB50#50	23.28	24.78	33	PASS
				RB100#0	23.33	24.83	33	PASS
			HCH	RB1#0	23.13	24.63	33	PASS
				RB1#50	22.79	24.29	33	PASS
				RB1#99	22.74	24.24	33	PASS
				RB50#0	23.33	24.83	33	PASS
				RB50#25	23.46	24.96	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	23.27	24.77	33	PASS
				RB100#0	23.26	24.76	33	PASS
	LTE/TM2	5	LCH	RB1#0	22.55	24.05	33	PASS
				RB1#13	22.28	23.78	33	PASS
				RB1#24	22.47	23.97	33	PASS
				RB12#0	22.26	23.76	33	PASS
				RB12#6	22.29	23.79	33	PASS
				RB12#13	22.19	23.69	33	PASS
				RB25#0	22.13	23.63	33	PASS
			MCH	RB1#0	22.97	24.47	33	PASS
				RB1#13	22.87	24.37	33	PASS
				RB1#24	22.93	24.43	33	PASS
				RB12#0	22.85	24.35	33	PASS
				RB12#6	22.96	24.46	33	PASS
				RB12#13	22.87	24.37	33	PASS
				RB25#0	22.82	24.32	33	PASS
			HCH	RB1#0	22.97	24.47	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.56	24.06	33	PASS
				RB1#24	22.77	24.27	33	PASS
				RB12#0	22.85	24.35	33	PASS
				RB12#6	22.83	24.33	33	PASS
				RB12#13	22.67	24.17	33	PASS
				RB25#0	22.73	24.23	33	PASS
		10	LCH	RB1#0	22.37	23.87	33	PASS
				RB1#25	22.14	23.64	33	PASS
				RB1#49	22.57	24.07	33	PASS
				RB25#0	22.19	23.69	33	PASS
				RB25#13	22.27	23.77	33	PASS
				RB25#25	22.25	23.75	33	PASS
				RB50#0	22.11	23.61	33	PASS
			MCH	RB1#0	22.97	24.47	33	PASS
				RB1#25	22.72	24.22	33	PASS
				RB1#49	22.94	24.44	33	PASS
				RB25#0	22.7	24.2	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.87	24.37	33	PASS
				RB25#25	22.76	24.26	33	PASS
				RB50#0	22.8	24.3	33	PASS
			HCH	RB1#0	23.22	24.72	33	PASS
				RB1#25	22.59	24.09	33	PASS
				RB1#49	22.92	24.42	33	PASS
				RB25#0	22.8	24.3	33	PASS
				RB25#13	22.69	24.19	33	PASS
				RB25#25	22.57	24.07	33	PASS
				RB50#0	22.66	24.16	33	PASS
		15	LCH	RB1#0	22.44	23.94	33	PASS
				RB1#38	22.61	24.11	33	PASS
				RB1#74	22.77	24.27	33	PASS
				RB36#0	22.18	23.68	33	PASS
				RB36#18	22.45	23.95	33	PASS
				RB36#39	22.32	23.82	33	PASS
				RB75#0	22.12	23.62	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	23.08	24.58	33	PASS
				RB1#38	23.04	24.54	33	PASS
				RB1#74	22.91	24.41	33	PASS
				RB36#0	22.73	24.23	33	PASS
				RB36#18	22.9	24.4	33	PASS
				RB36#39	22.76	24.26	33	PASS
				RB75#0	22.74	24.24	33	PASS
			HCH	RB1#0	23.08	24.58	33	PASS
				RB1#38	22.96	24.46	33	PASS
				RB1#74	22.81	24.31	33	PASS
				RB36#0	22.81	24.31	33	PASS
				RB36#18	22.81	24.31	33	PASS
				RB36#39	22.59	24.09	33	PASS
				RB75#0	22.61	24.11	33	PASS
		20	LCH	RB1#0	22.39	23.89	33	PASS
				RB1#50	22.57	24.07	33	PASS
				RB1#99	22.79	24.29	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	22.37	23.87	33	PASS
				RB50#25	22.55	24.05	33	PASS
				RB50#50	22.35	23.85	33	PASS
				RB100#0	22.26	23.76	33	PASS
			MCH	RB1#0	23.05	24.55	33	PASS
				RB1#50	22.9	24.4	33	PASS
				RB1#99	22.95	24.45	33	PASS
				RB50#0	22.74	24.24	33	PASS
				RB50#25	22.92	24.42	33	PASS
				RB50#50	22.74	24.24	33	PASS
				RB100#0	22.77	24.27	33	PASS
			HCH	RB1#0	23.2	24.7	33	PASS
				RB1#50	22.87	24.37	33	PASS
				RB1#99	22.8	24.3	33	PASS
				RB50#0	22.82	24.32	33	PASS
				RB50#25	22.89	24.39	33	PASS
				RB50#50	22.74	24.24	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	22.7	24.2	33	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:

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

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

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

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
BAND41	LTE/TM1	5	LCH	RB1#0	4.52	13	PASS
				RB1#13	4.65	13	PASS
				RB1#24	4.53	13	PASS
				RB12#0	4.76	13	PASS
				RB12#6	4.62	13	PASS
				RB12#13	4.9	13	PASS
				RB25#0	5.44	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#13	4.19	13	PASS
				RB1#24	4.16	13	PASS
				RB12#0	5.06	13	PASS
				RB12#6	4.89	13	PASS
				RB12#13	5.09	13	PASS
				RB25#0	5.61	13	PASS
			HCH	RB1#0	4.05	13	PASS
				RB1#13	4.18	13	PASS
				RB1#24	4.06	13	PASS
				RB12#0	5.17	13	PASS
				RB12#6	4.87	13	PASS
				RB12#13	5.21	13	PASS
				RB25#0	5.36	13	PASS
		10	LCH	RB1#0	4.39	13	PASS
				RB1#25	4.49	13	PASS
				RB1#49	4.28	13	PASS
				RB25#0	4.9	13	PASS
				RB25#13	4.68	13	PASS
				RB25#25	4.93	13	PASS
				RB50#0	5.35	13	PASS
			MCH	RB1#0	4.52	13	PASS
				RB1#25	4.48	13	PASS
				RB1#49	4.43	13	PASS
				RB25#0	5.31	13	PASS
				RB25#13	4.98	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.13	13	PASS
				RB50#0	5.4	13	PASS
			HCH	RB1#0	3.78	13	PASS
				RB1#25	3.95	13	PASS
				RB1#49	3.9	13	PASS
				RB25#0	4.98	13	PASS
				RB25#13	4.97	13	PASS
				RB25#25	5.05	13	PASS
				RB50#0	5.53	13	PASS
		15	LCH	RB1#0	4.55	13	PASS
				RB1#38	4.45	13	PASS
				RB1#74	4.47	13	PASS
				RB36#0	4.94	13	PASS
				RB36#18	4.57	13	PASS
				RB36#39	5.03	13	PASS
				RB75#0	5.45	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#38	4.3	13	PASS
				RB1#74	4.27	13	PASS
				RB36#0	5.59	13	PASS
				RB36#18	5.24	13	PASS
				RB36#39	5.44	13	PASS
				RB75#0	5.7	13	PASS
			HCH	RB1#0	4.35	13	PASS
				RB1#38	4.36	13	PASS
				RB1#74	4.41	13	PASS
				RB36#0	4.9	13	PASS
				RB36#18	4.7	13	PASS
				RB36#39	4.96	13	PASS
				RB75#0	5.6	13	PASS
		20	LCH	RB1#0	4.3	13	PASS
				RB1#50	4.2	13	PASS
				RB1#99	4.33	13	PASS
				RB50#0	5.15	13	PASS
				RB50#25	4.68	13	PASS
				RB50#50	5.22	13	PASS
				RB100#0	5.59	13	PASS
			MCH	RB1#0	4.61	13	PASS
				RB1#50	4.43	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.42	13	PASS
				RB50#0	5.41	13	PASS
				RB50#25	5.18	13	PASS
				RB50#50	5.32	13	PASS
				RB100#0	5.75	13	PASS
			HCH	RB1#0	4.41	13	PASS
				RB1#50	4.37	13	PASS
				RB1#99	4.44	13	PASS
				RB50#0	5.12	13	PASS
				RB50#25	4.82	13	PASS
				RB50#50	4.93	13	PASS
				RB100#0	5.59	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.56	13	PASS
				RB1#13	4.63	13	PASS
				RB1#24	4.9	13	PASS
				RB12#0	5.37	13	PASS
				RB12#6	5.17	13	PASS
				RB12#13	5.33	13	PASS
				RB25#0	5.69	13	PASS
			MCH	RB1#0	5.7	13	PASS
				RB1#13	5.26	13	PASS
				RB1#24	5.22	13	PASS
				RB12#0	5.73	13	PASS
				RB12#6	5.54	13	PASS
				RB12#13	5.66	13	PASS
				RB25#0	5.92	13	PASS
			HCH	RB1#0	4.67	13	PASS
				RB1#13	4.8	13	PASS
				RB1#24	4.68	13	PASS
				RB12#0	5.29	13	PASS
				RB12#6	5.13	13	PASS
				RB12#13	5.21	13	PASS
				RB25#0	6.19	13	PASS
		10	LCH	RB1#0	5.12	13	PASS
				RB1#25	5.02	13	PASS
				RB1#49	4.74	13	PASS
				RB25#0	5.31	13	PASS
				RB25#13	5.07	13	PASS
				RB25#25	5.39	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.9	13	PASS
				RB1#0	5.05	13	PASS
			MCH	RB1#25	5.07	13	PASS
				RB1#49	5.08	13	PASS
				RB25#0	5.77	13	PASS
				RB25#13	5.59	13	PASS
				RB25#25	5.72	13	PASS
				RB50#0	6.2	13	PASS
			HCH	RB1#0	4.88	13	PASS
				RB1#25	5.11	13	PASS
				RB1#49	4.71	13	PASS
				RB25#0	5.47	13	PASS
				RB25#13	5.57	13	PASS
				RB25#25	5.61	13	PASS
				RB50#0	6.06	13	PASS
		15	LCH	RB1#0	4.87	13	PASS
				RB1#38	4.73	13	PASS
				RB1#74	4.63	13	PASS
				RB36#0	5.56	13	PASS
				RB36#18	5.28	13	PASS
				RB36#39	5.49	13	PASS
				RB75#0	6.12	13	PASS
			MCH	RB1#0	5.55	13	PASS
				RB1#38	5.41	13	PASS
				RB1#74	5.39	13	PASS
				RB36#0	6.22	13	PASS
				RB36#18	5.7	13	PASS
				RB36#39	6.12	13	PASS
				RB75#0	6.27	13	PASS
			HCH	RB1#0	4.86	13	PASS
				RB1#38	4.72	13	PASS
				RB1#74	4.77	13	PASS
				RB36#0	5.47	13	PASS
				RB36#18	5.4	13	PASS
				RB36#39	5.7	13	PASS
				RB75#0	6.23	13	PASS
		20	LCH	RB1#0	4.49	13	PASS
				RB1#50	4.4	13	PASS
				RB1#99	4.57	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.4	13	PASS
				RB50#25	5.2	13	PASS
				RB50#50	5.56	13	PASS
				RB100#0	6.11	13	PASS
			MCH	RB1#0	5.08	13	PASS
				RB1#50	4.89	13	PASS
				RB1#99	4.87	13	PASS
				RB50#0	6.01	13	PASS
				RB50#25	5.74	13	PASS
				RB50#50	5.77	13	PASS
				RB100#0	6.32	13	PASS
			HCH	RB1#0	4.61	13	PASS
				RB1#50	4.53	13	PASS
				RB1#99	4.76	13	PASS
				RB50#0	5.57	13	PASS
				RB50#25	5.31	13	PASS
				RB50#50	5.55	13	PASS
				RB100#0	6.1	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

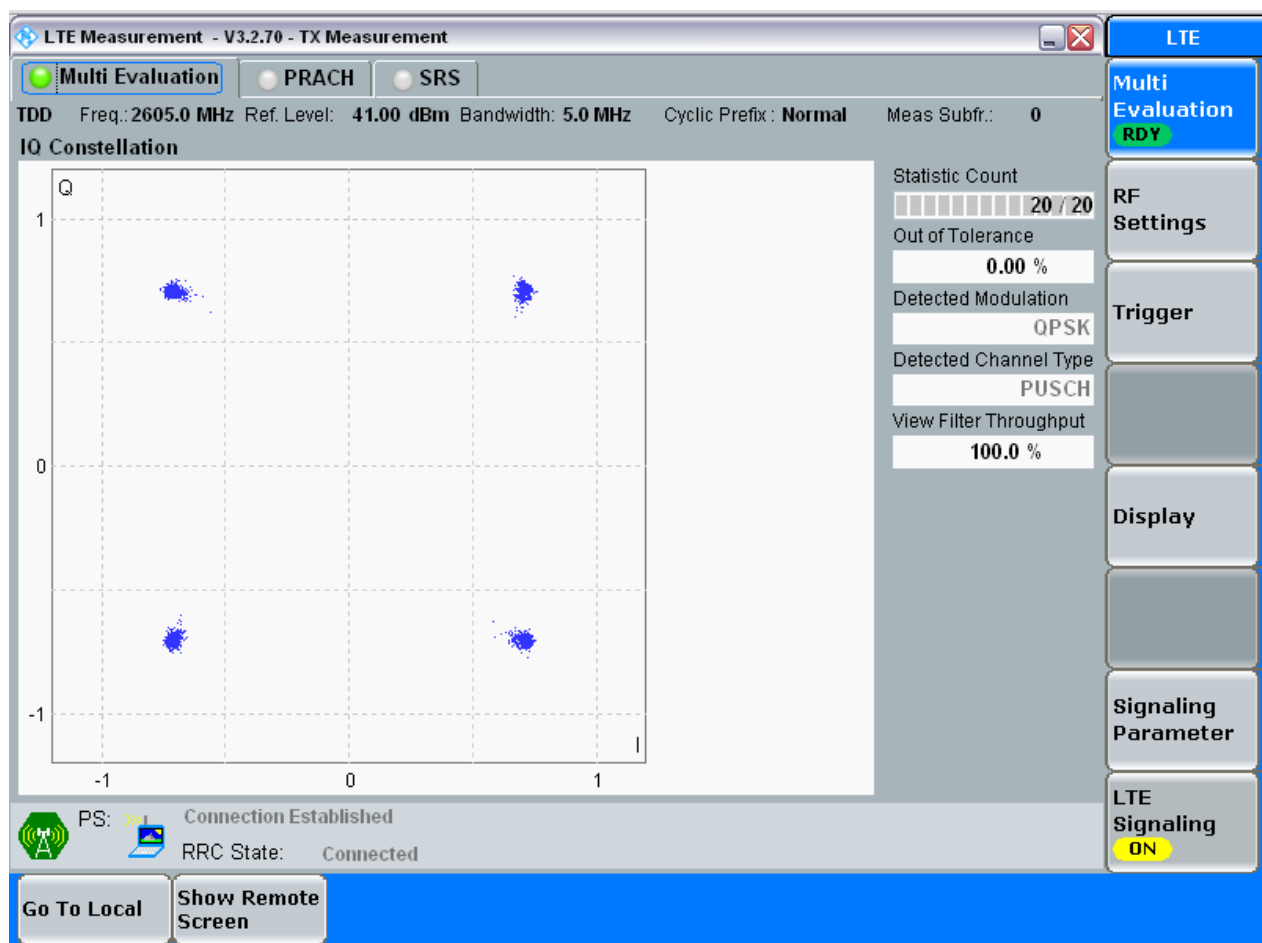
3.1.1 Test Band = BAND41

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

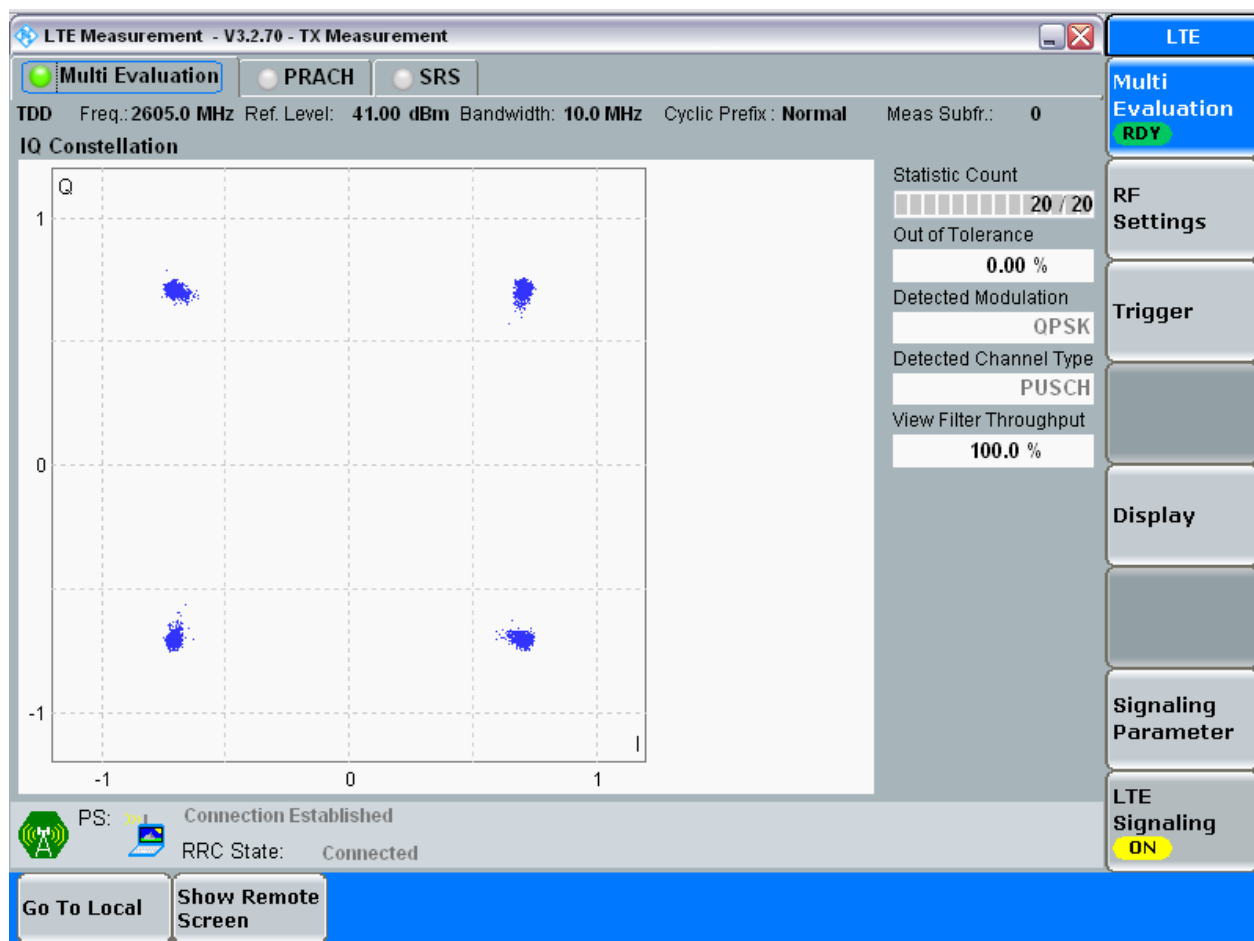
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

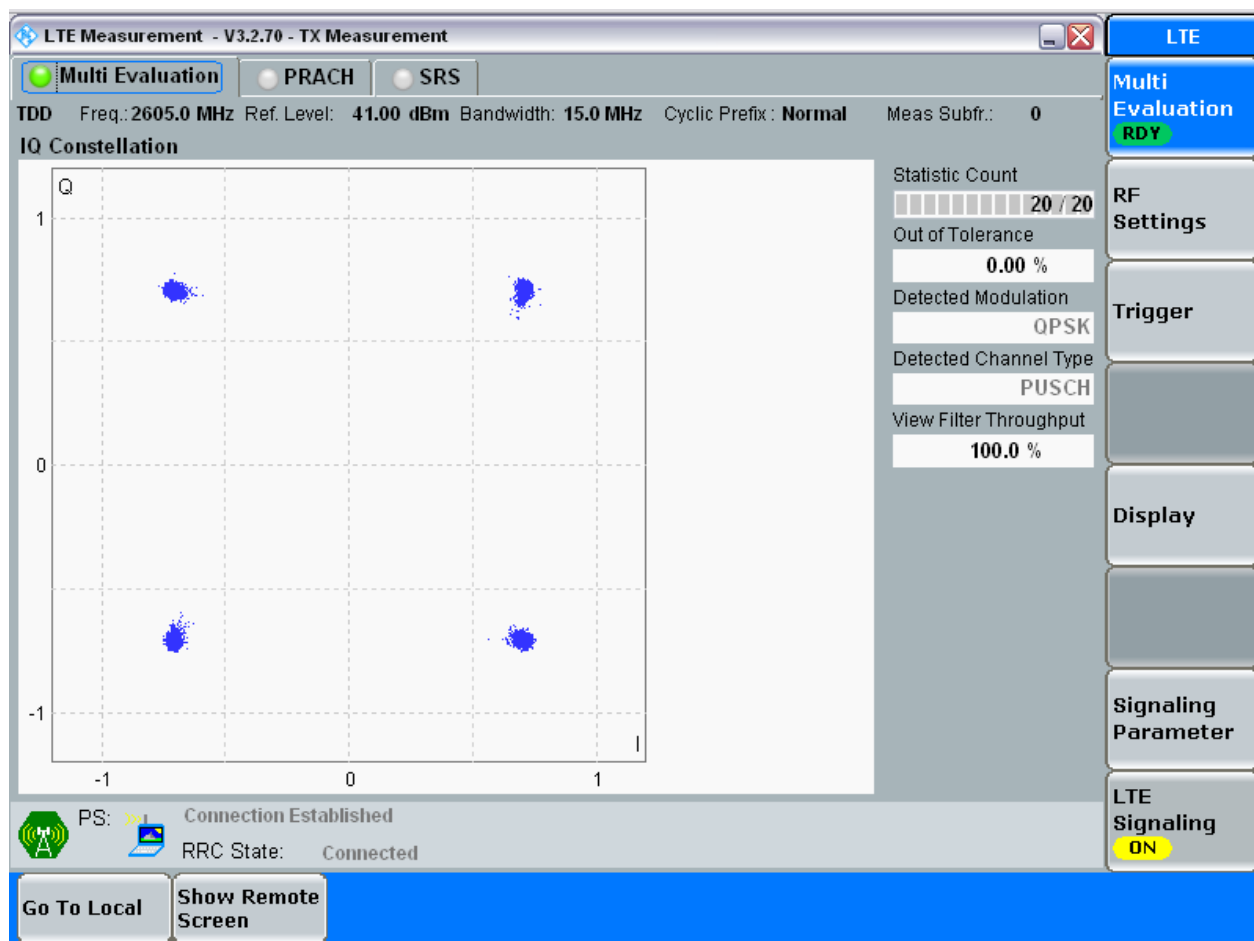
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

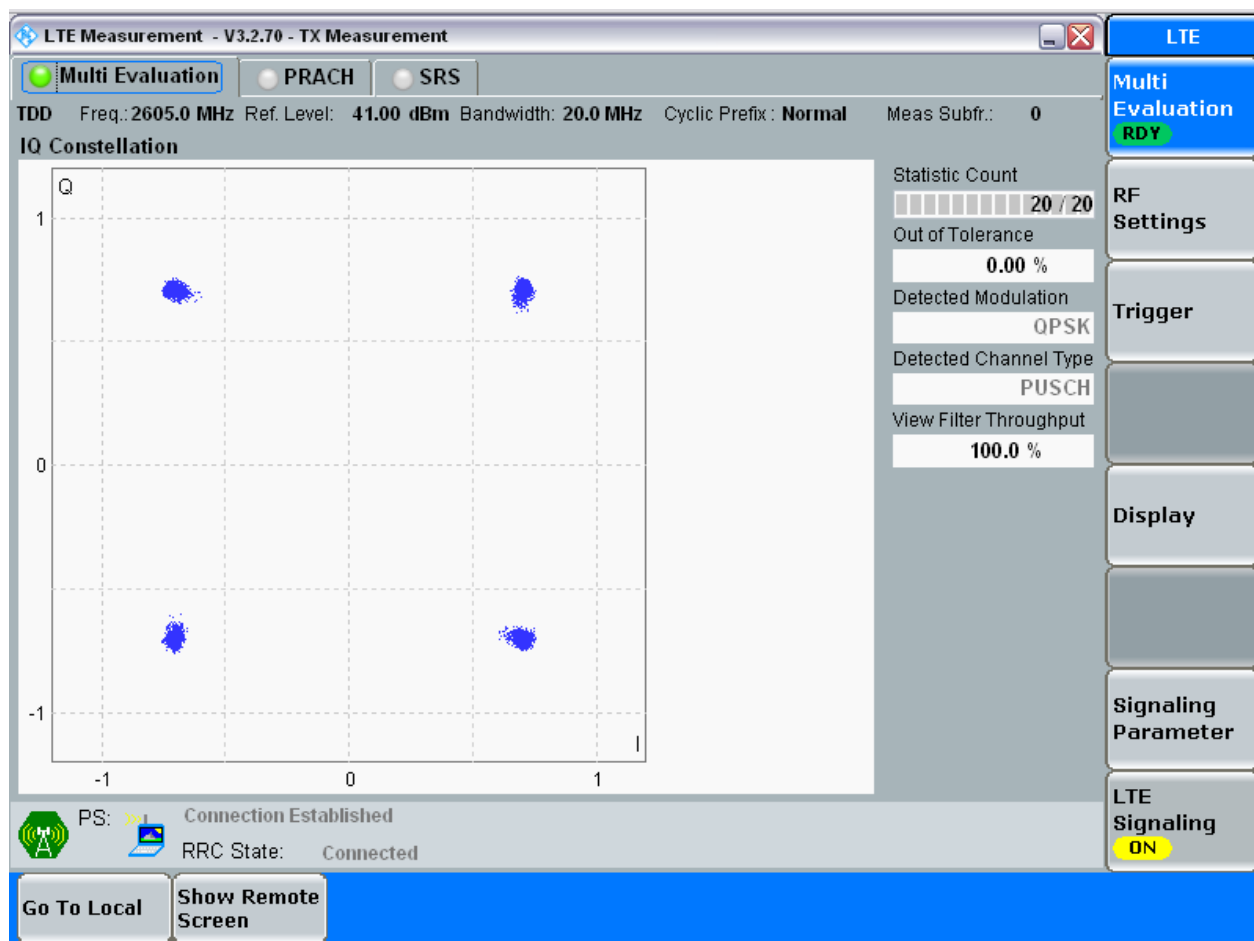
3.1.1.1.3.1.1 Test RB = RB75#0



3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0

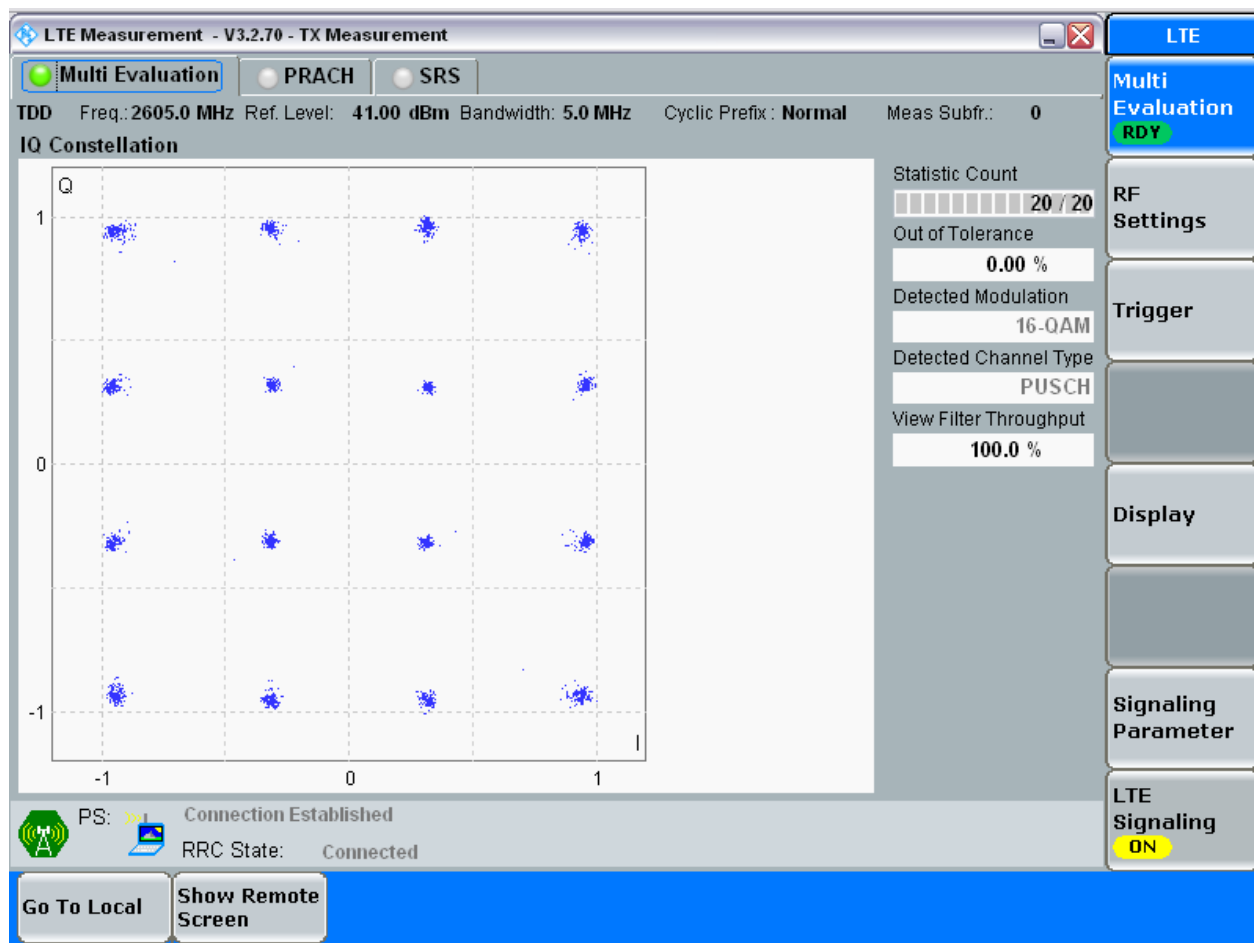


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

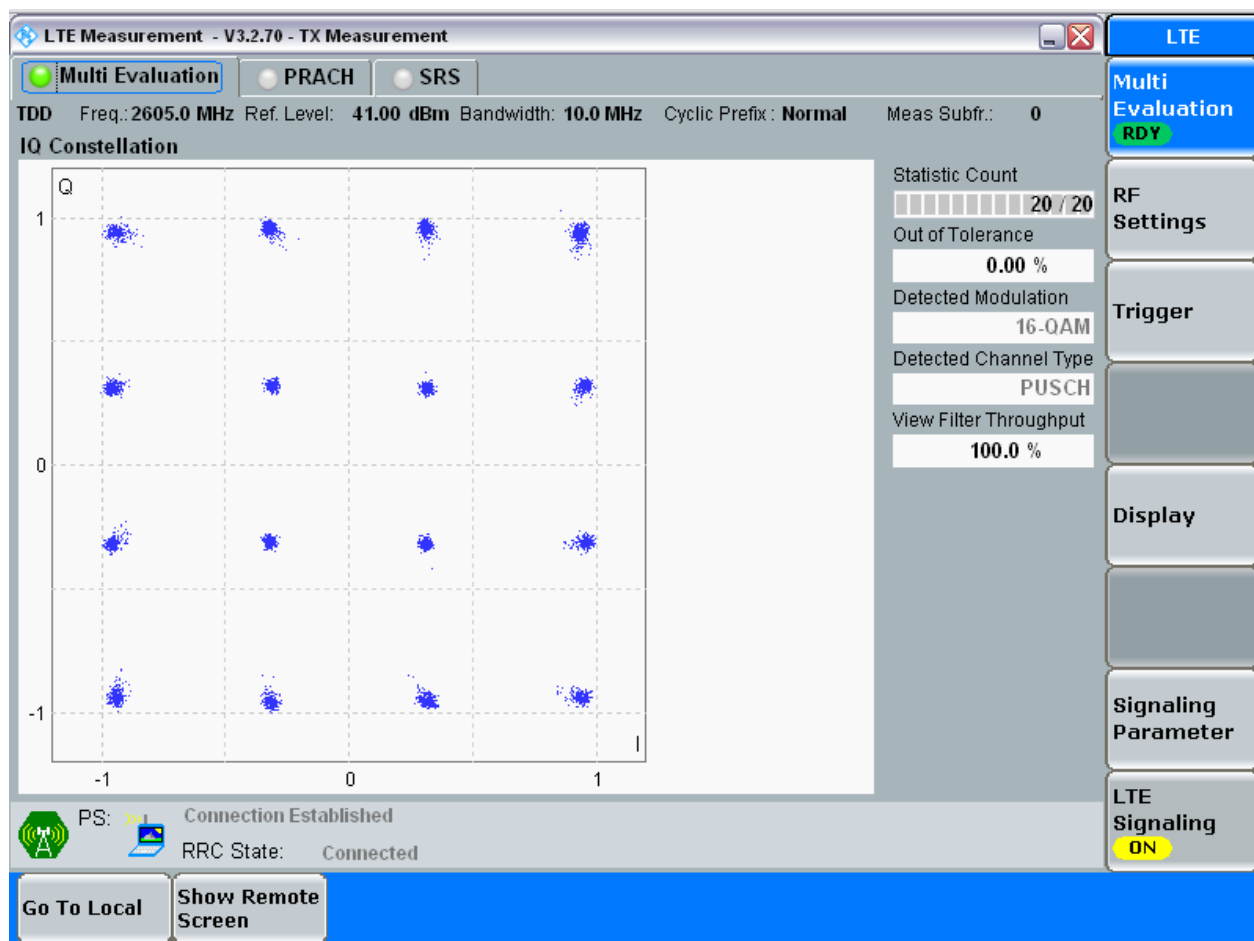
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

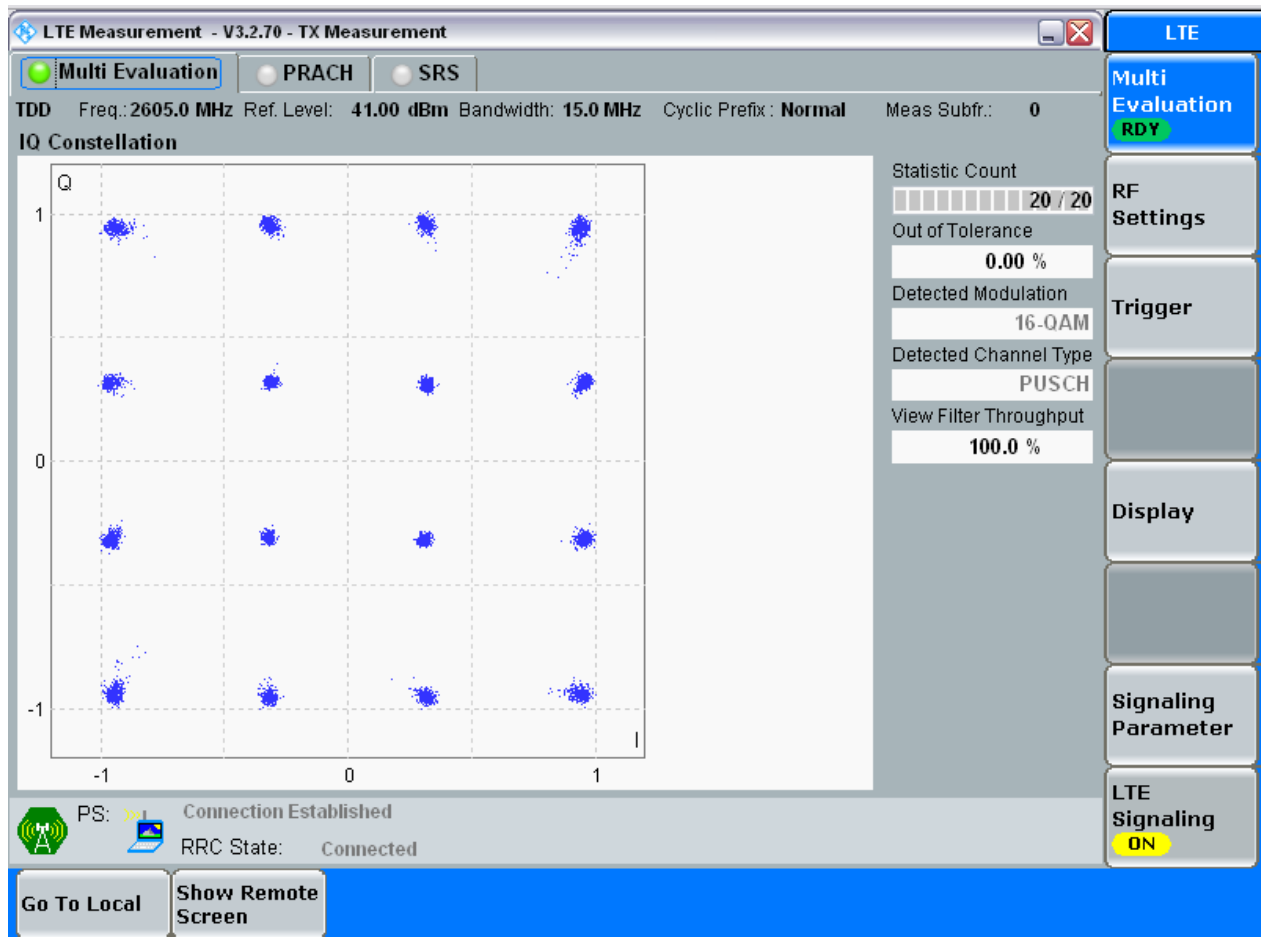
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

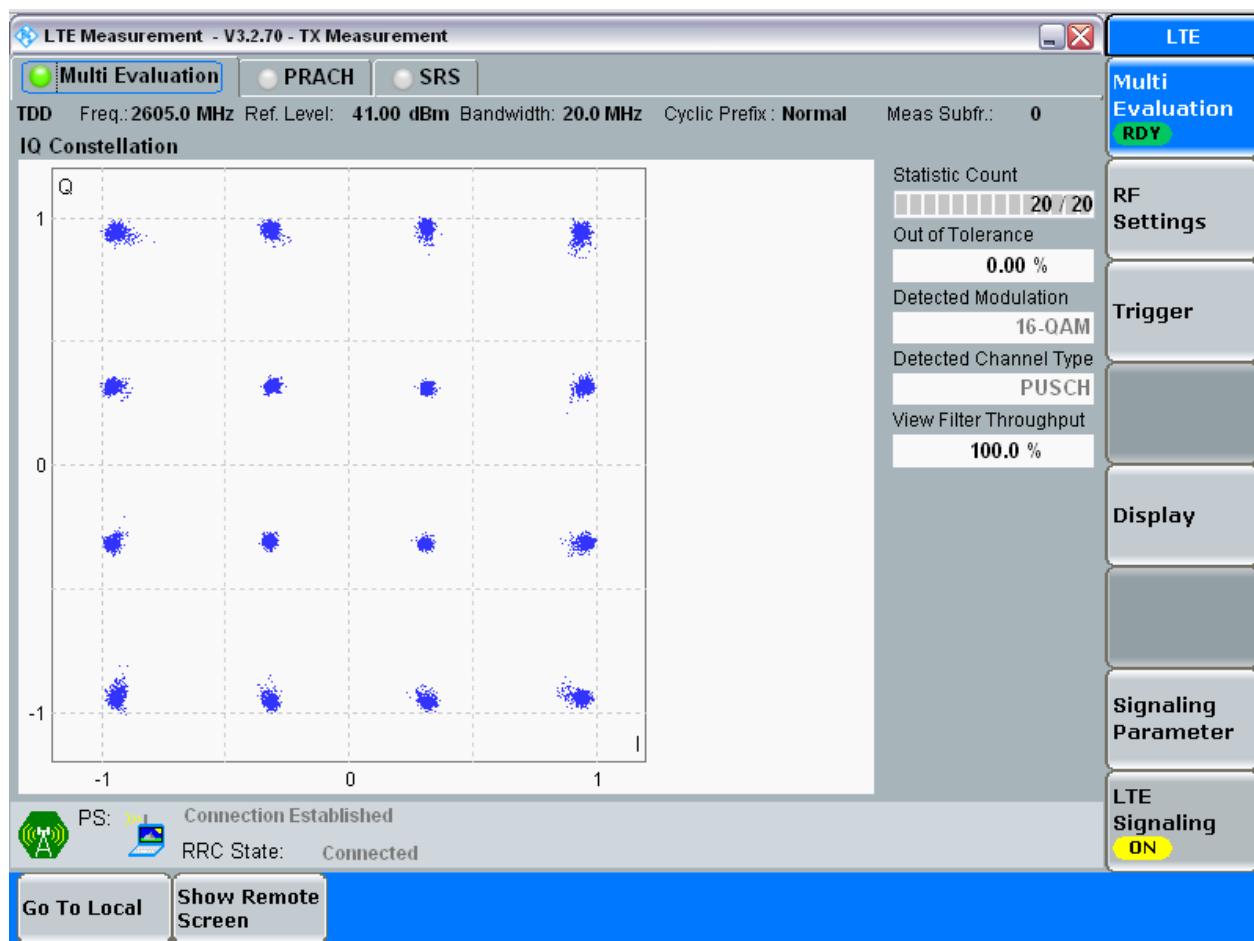
3.1.1.2.3.1.1 Test RB = RB75#0



3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB100#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
BAND41	LTE/TM1	5	LCH	RB25#0	4.49	4.91	Pass
			MCH	RB25#0	4.48	4.94	Pass
			HCH	RB25#0	4.48	4.94	Pass
		10	LCH	RB50#0	9.00	9.90	Pass
			MCH	RB50#0	8.99	9.82	Pass
			HCH	RB50#0	8.96	9.86	Pass
		15	LCH	RB75#0	13.44	14.78	Pass
			MCH	RB75#0	13.44	14.68	Pass
			HCH	RB75#0	13.44	14.58	Pass
		20	LCH	RB100#0	17.98	19.39	Pass
			MCH	RB100#0	17.91	19.49	Pass
			HCH	RB100#0	17.96	19.63	Pass
	LTE/TM2	5	LCH	RB25#0	4.48	4.91	Pass
			MCH	RB25#0	4.47	4.91	Pass
			HCH	RB25#0	4.49	4.90	Pass
		10	LCH	RB50#0	8.99	9.83	Pass
			MCH	RB50#0	8.95	9.90	Pass
			HCH	RB50#0	8.98	9.82	Pass
		15	LCH	RB75#0	13.38	14.87	Pass
			MCH	RB75#0	13.41	14.70	Pass
			HCH	RB75#0	13.42	14.73	Pass
		20	LCH	RB100#0	17.93	19.56	Pass
			MCH	RB100#0	17.88	19.48	Pass
			HCH	RB100#0	17.92	19.66	Pass



Part II - Test Plots

4.1 For LTE

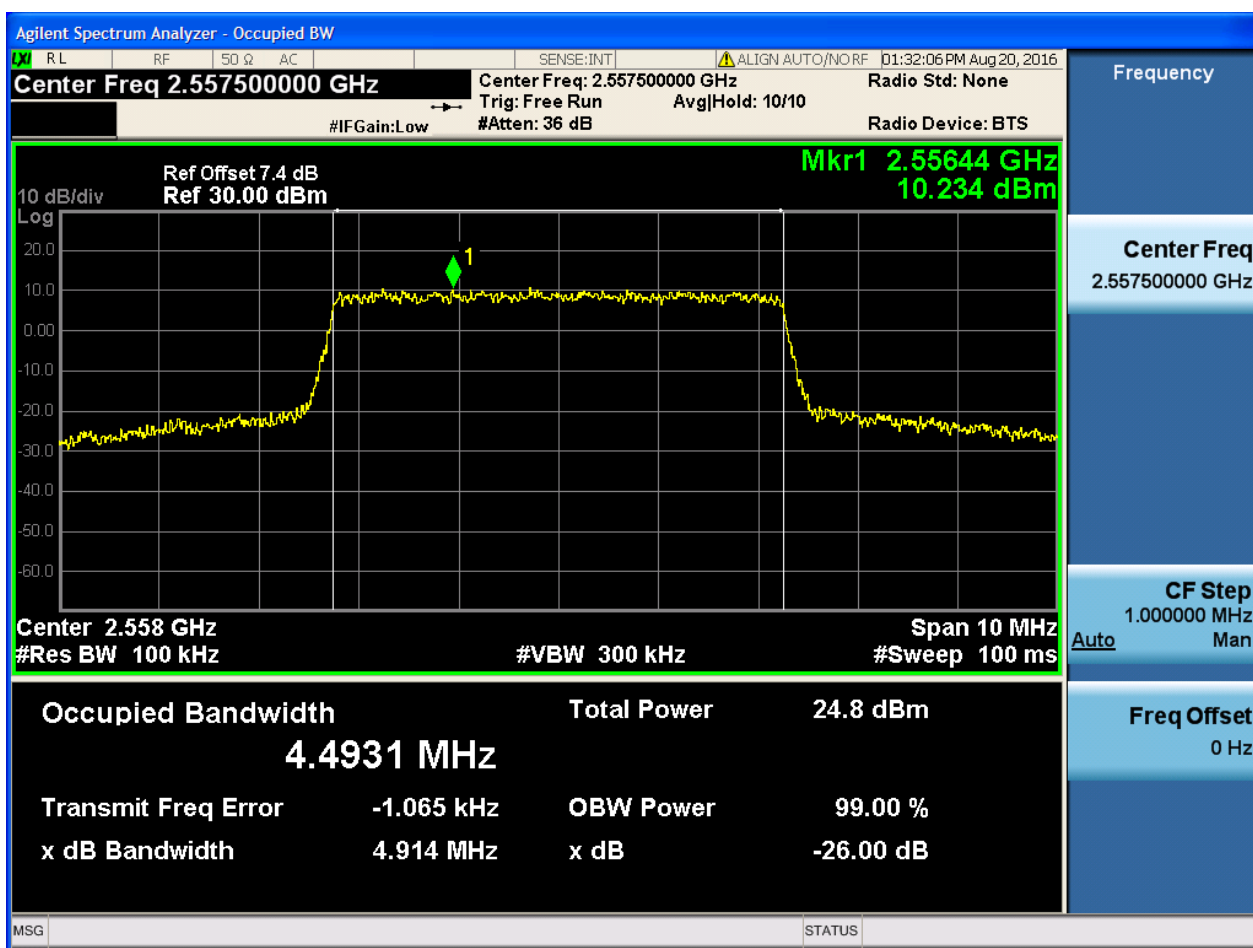
4.1.2 Test Band = BAND41

4.1.2.1 Test Mode = LTE/TM1

4.1.2.1.1 Test Bandwidth = 5

4.1.2.1.1.1 Test Channel = LCH

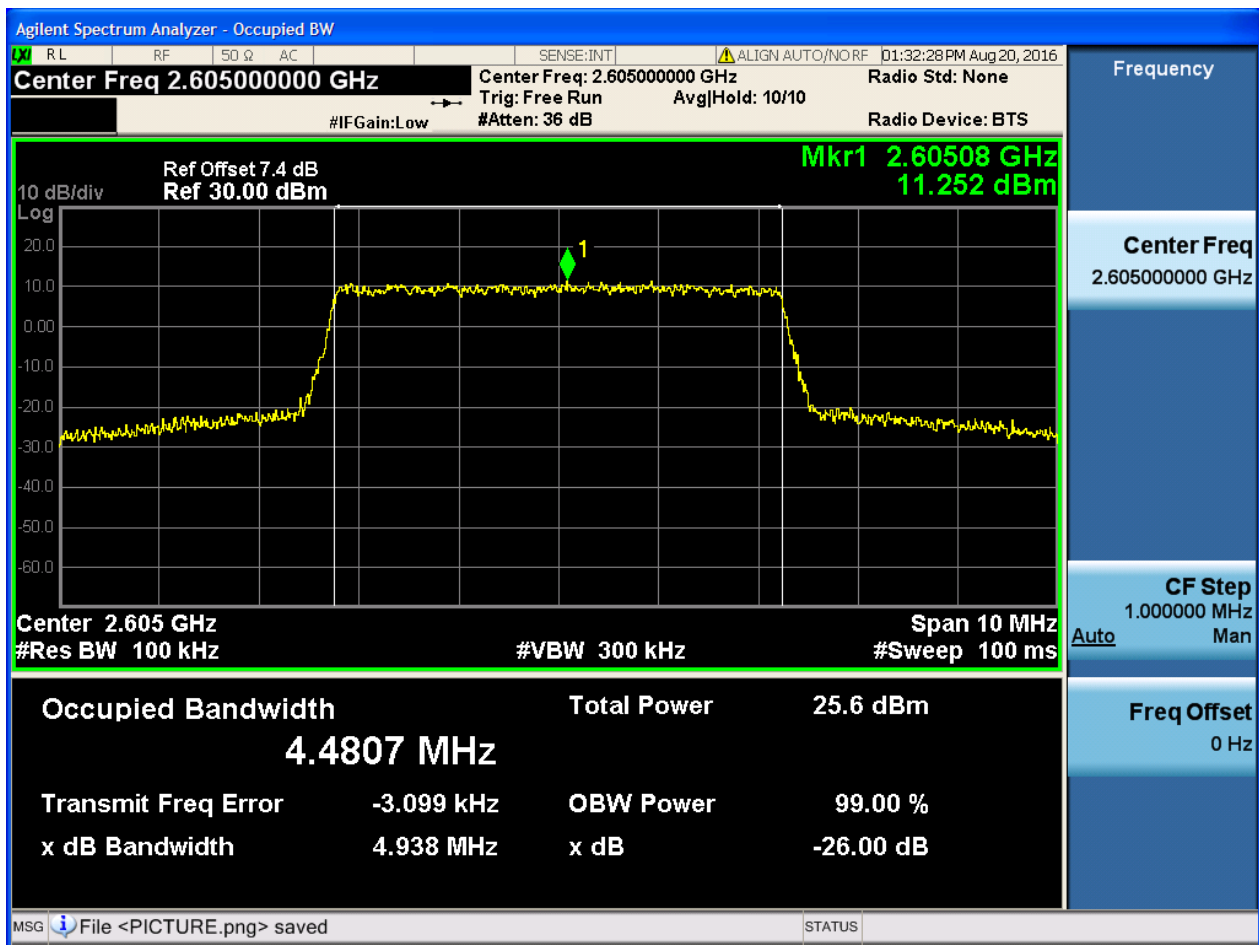
4.1.2.1.1.1.1 Test RB = RB25#0





4.1.2.1.1.2 Test Channel = MCH

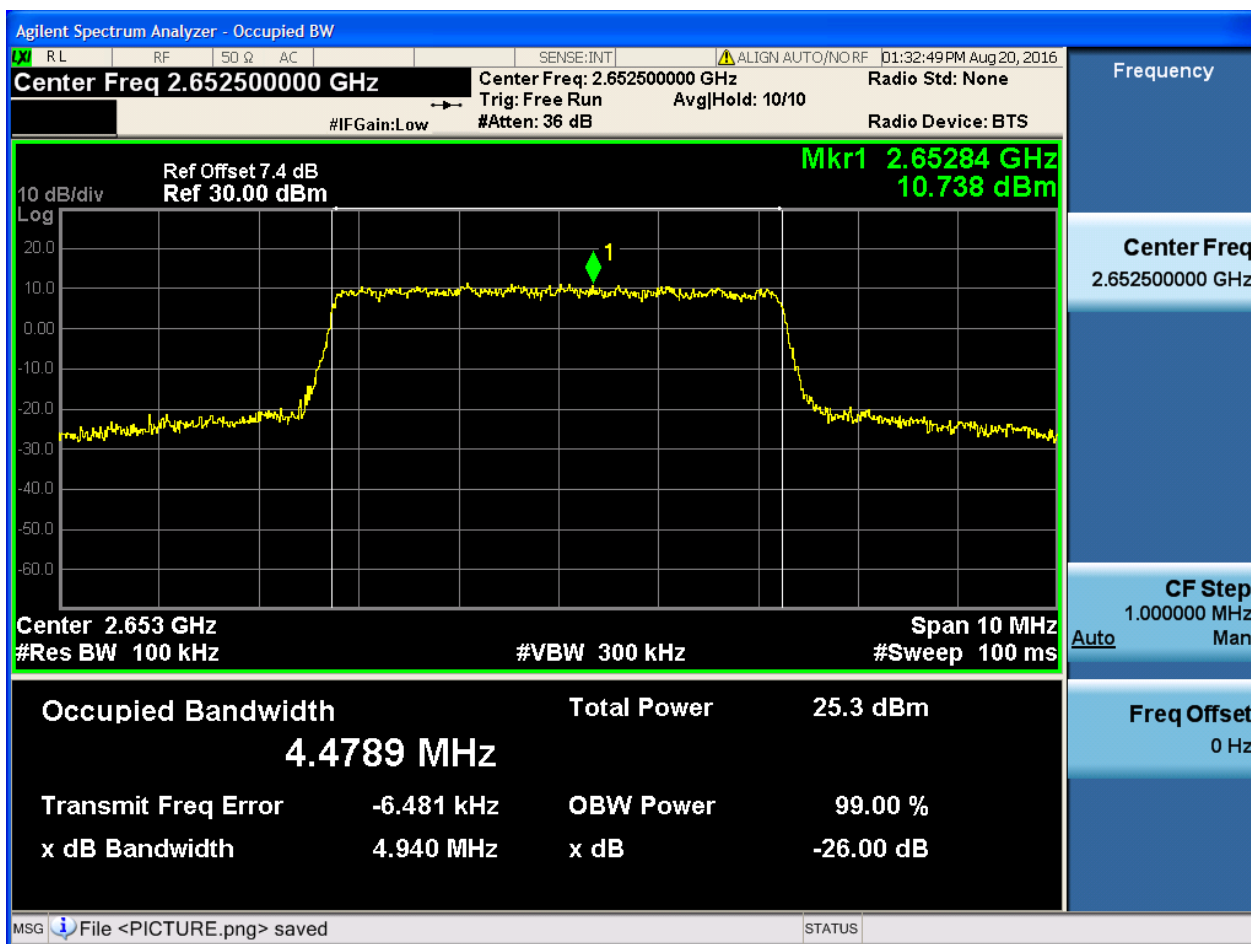
4.1.2.1.1.2.1 Test RB = RB25#0





4.1.2.1.1.3 Test Channel = HCH

4.1.2.1.1.3.1 Test RB = RB25#0

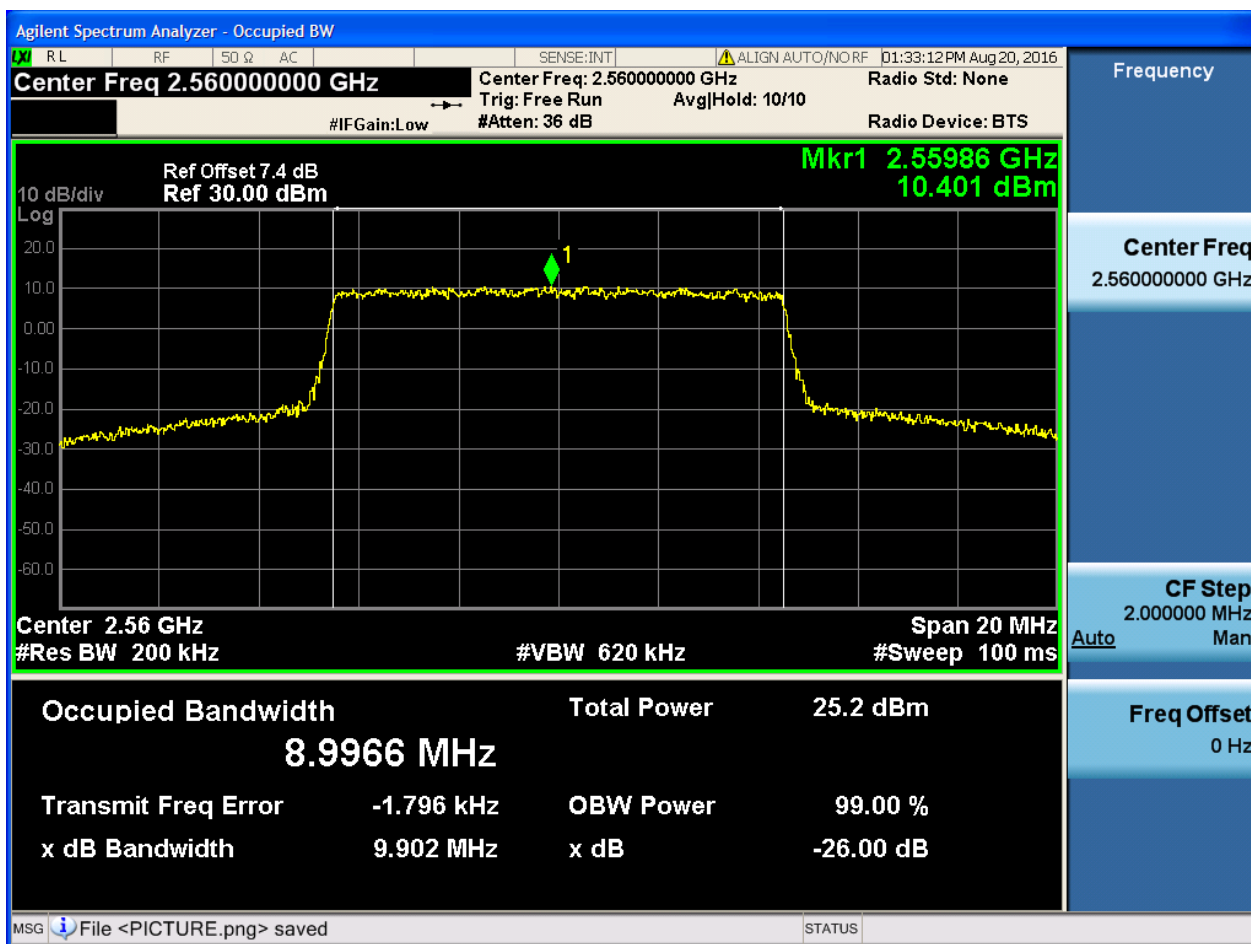




4.1.2.1.2 Test Bandwidth = 10

4.1.2.1.2.1 Test Channel = LCH

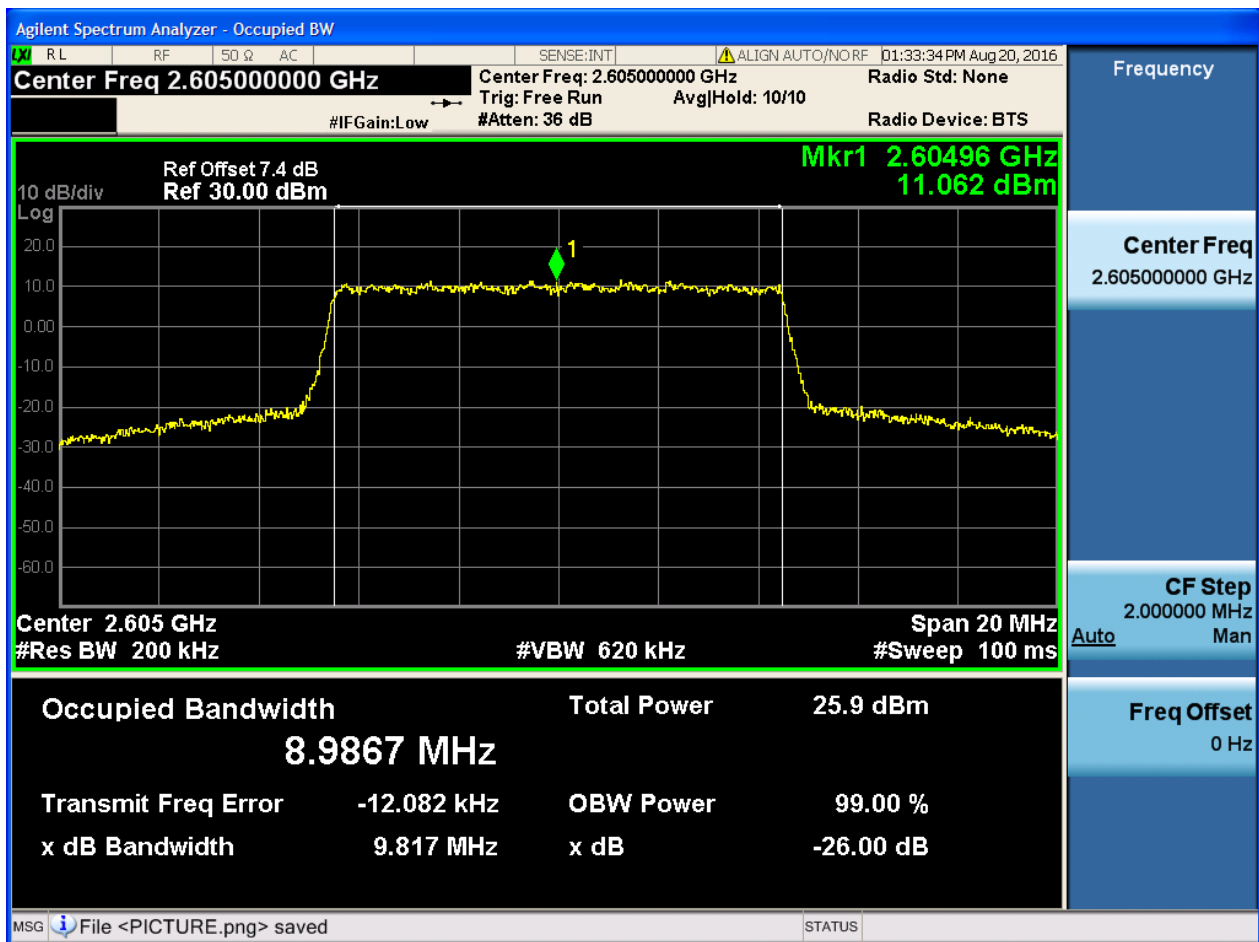
4.1.2.1.2.1.1 Test RB = RB50#0





4.1.2.1.2.2 Test Channel = MCH

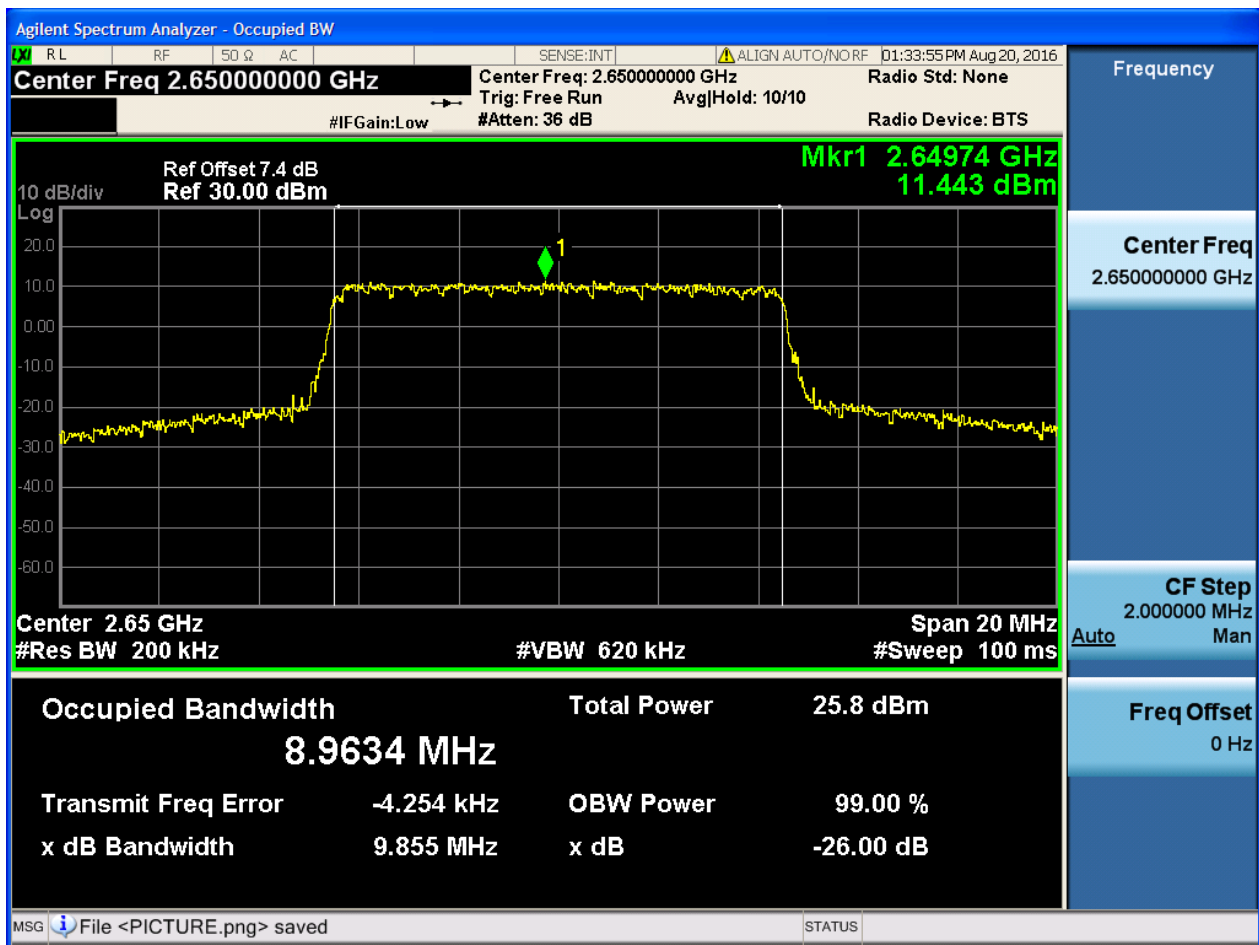
4.1.2.1.2.2.1 Test RB = RB50#0





4.1.2.1.2.3 Test Channel = HCH

4.1.2.1.2.3.1 Test RB = RB50#0

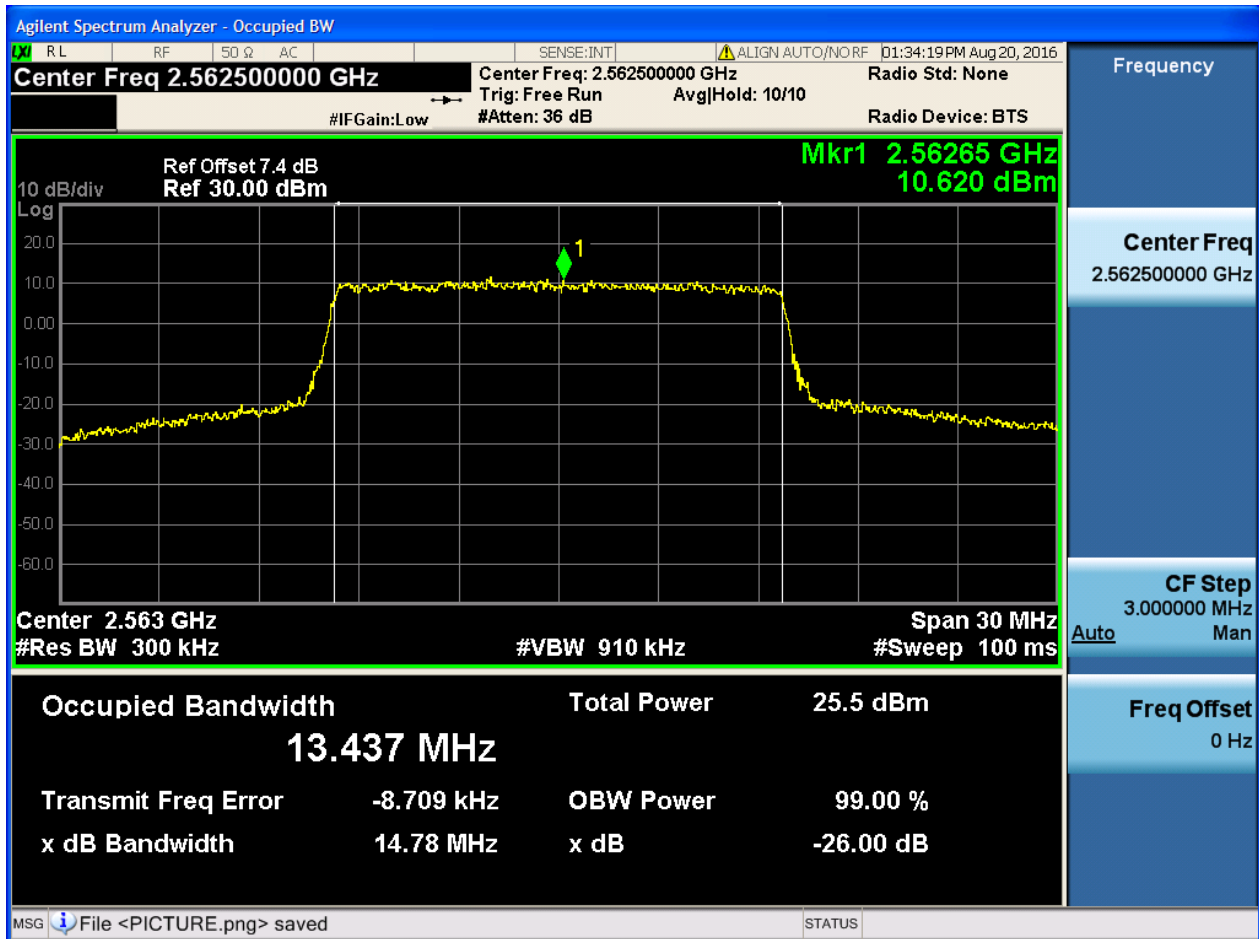




4.1.2.1.3 Test Bandwidth = 15

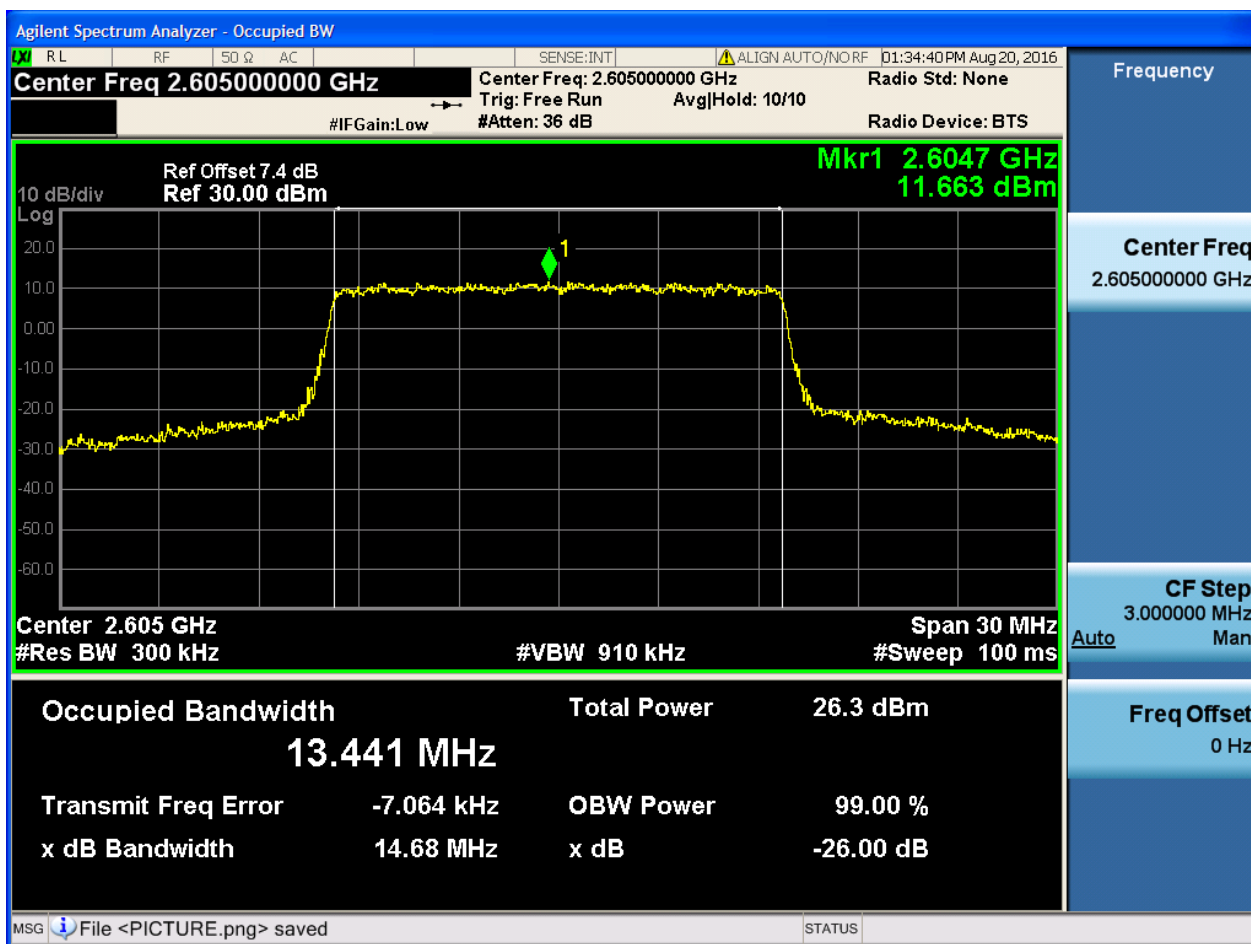
4.1.2.1.3.1 Test Channel = LCH

4.1.2.1.3.1.1 Test RB = RB75#0



4.1.2.1.3.2 Test Channel = MCH

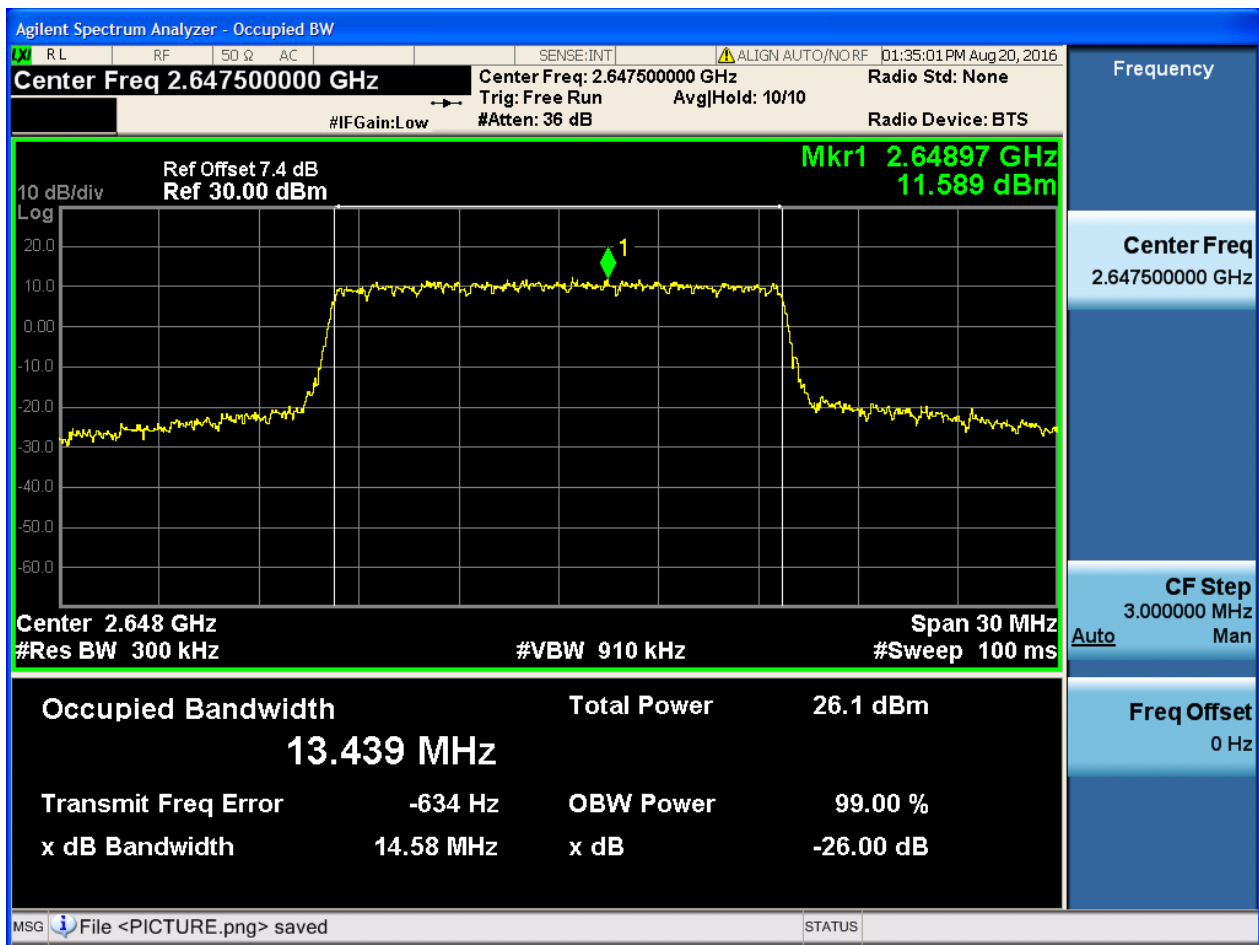
4.1.2.1.3.2.1 Test RB = RB75#0





4.1.2.1.3.3 Test Channel = HCH

4.1.2.1.3.3.1 Test RB = RB75#0

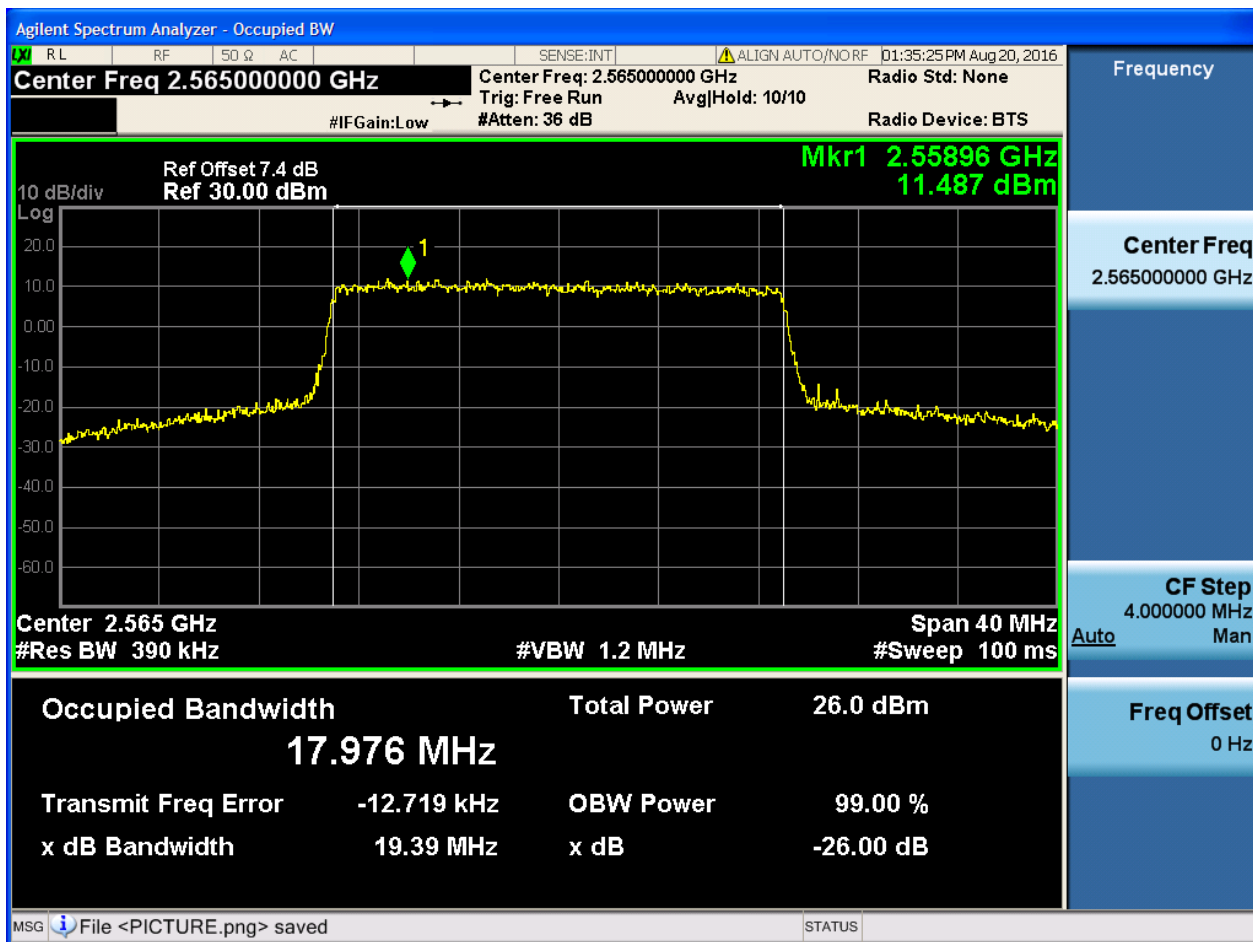




4.1.2.1.4 Test Bandwidth = 20

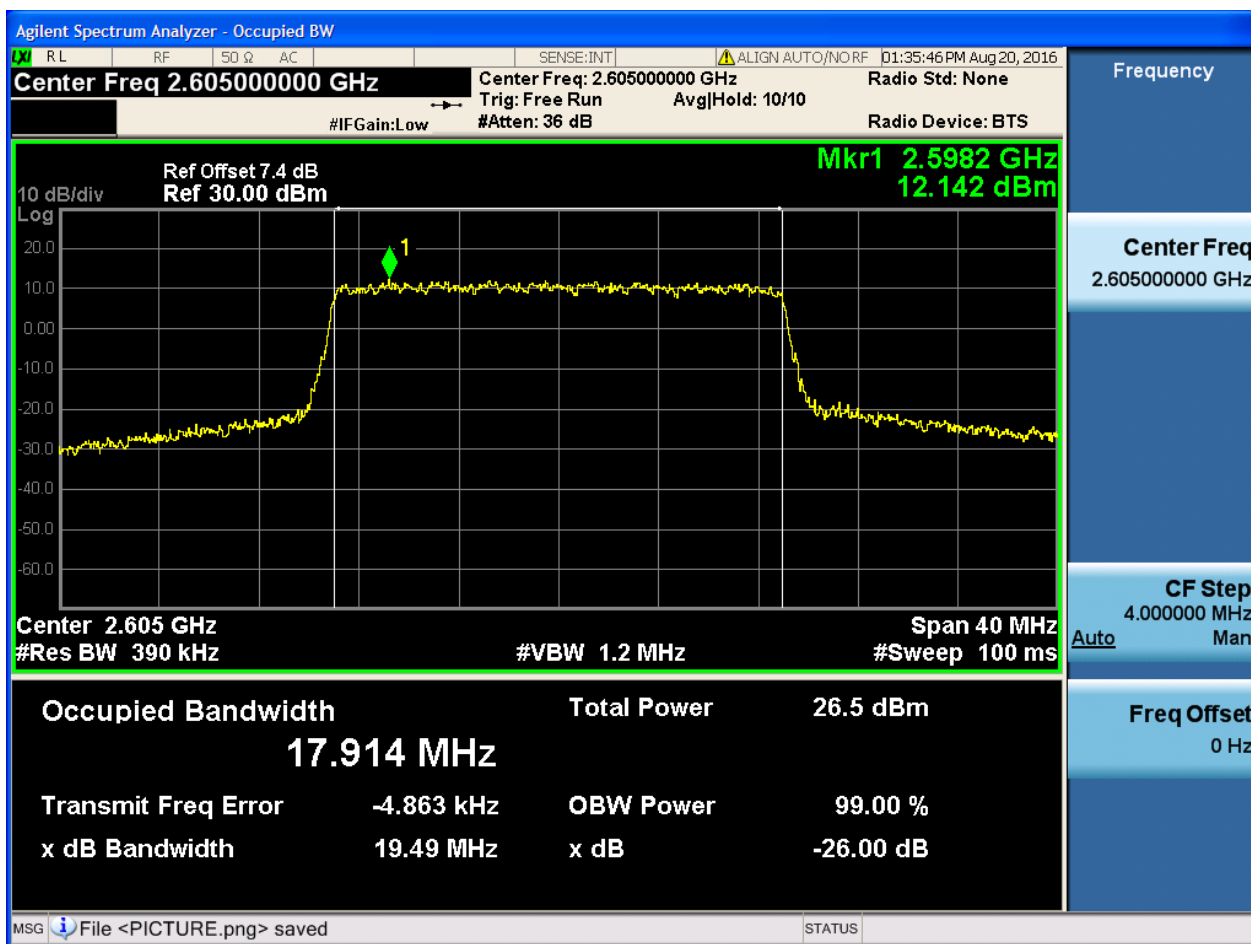
4.1.2.1.4.1 Test Channel = LCH

4.1.2.1.4.1.1 Test RB = RB100#0



4.1.2.1.4.2 Test Channel = MCH

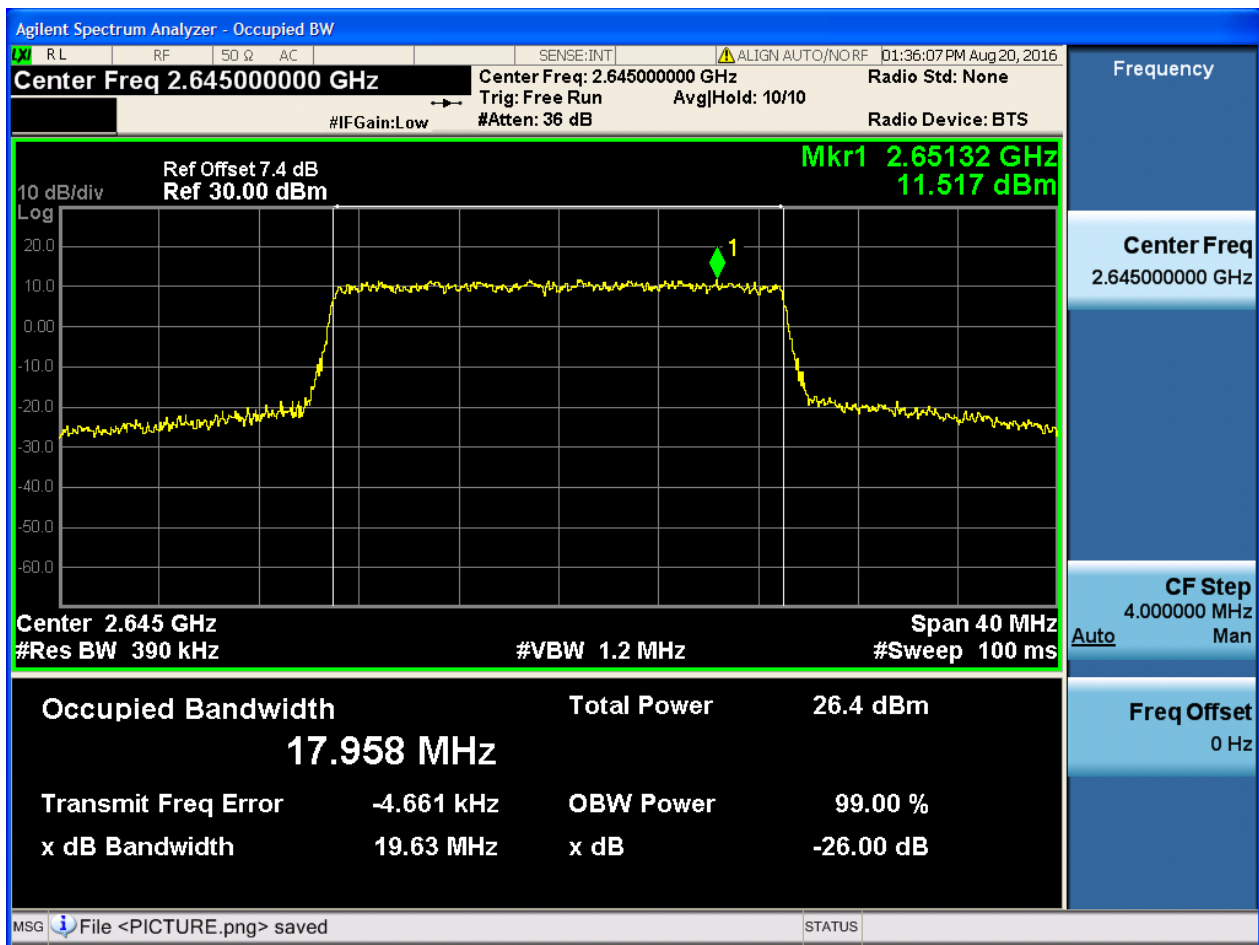
4.1.2.1.4.2.1 Test RB = RB100#0





4.1.2.1.4.3 Test Channel = HCH

4.1.2.1.4.3.1 Test RB = RB100#0



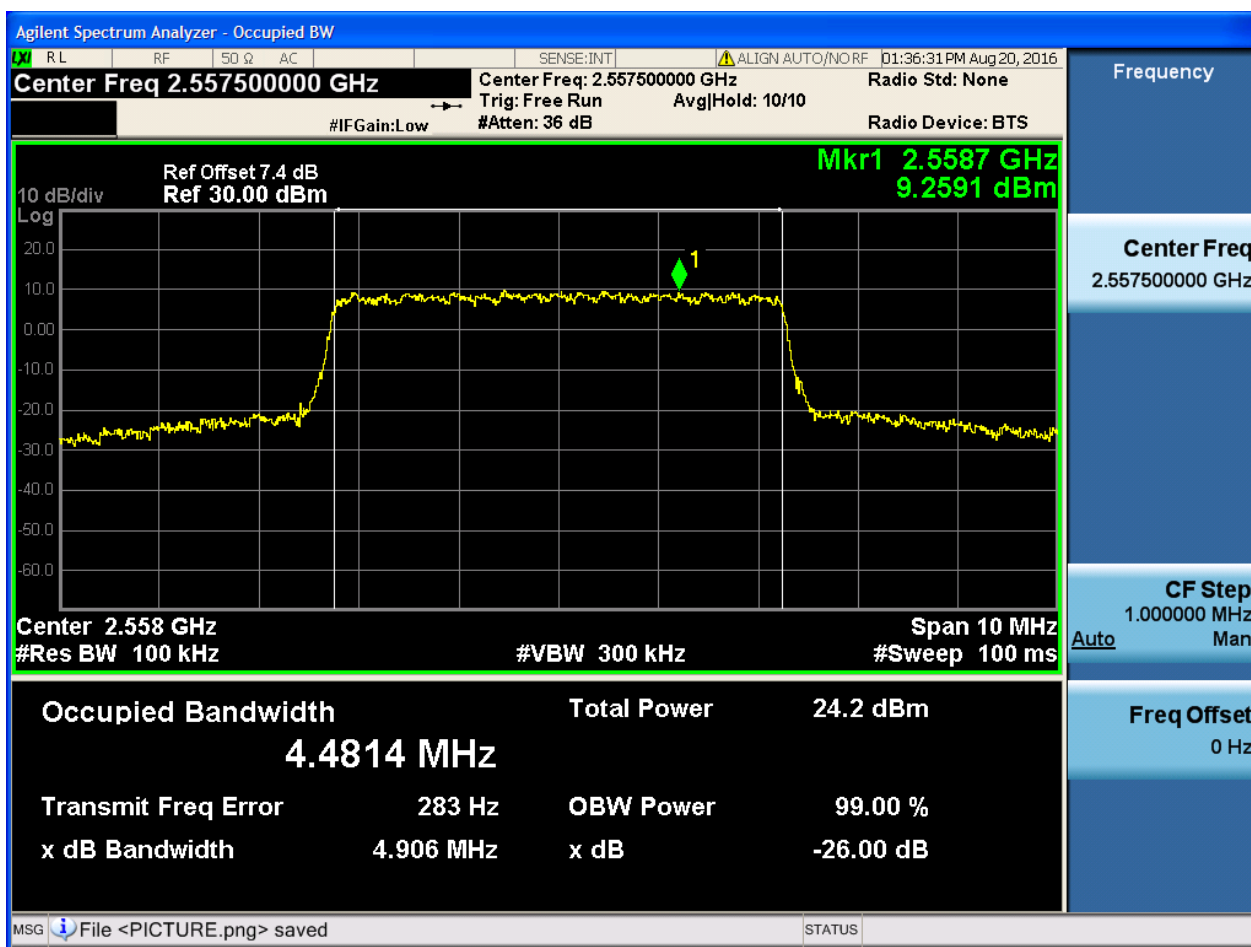


4.1.2.2 Test Mode = LTE/TM2

4.1.2.2.1 Test Bandwidth = 5

4.1.2.2.1.1 Test Channel = LCH

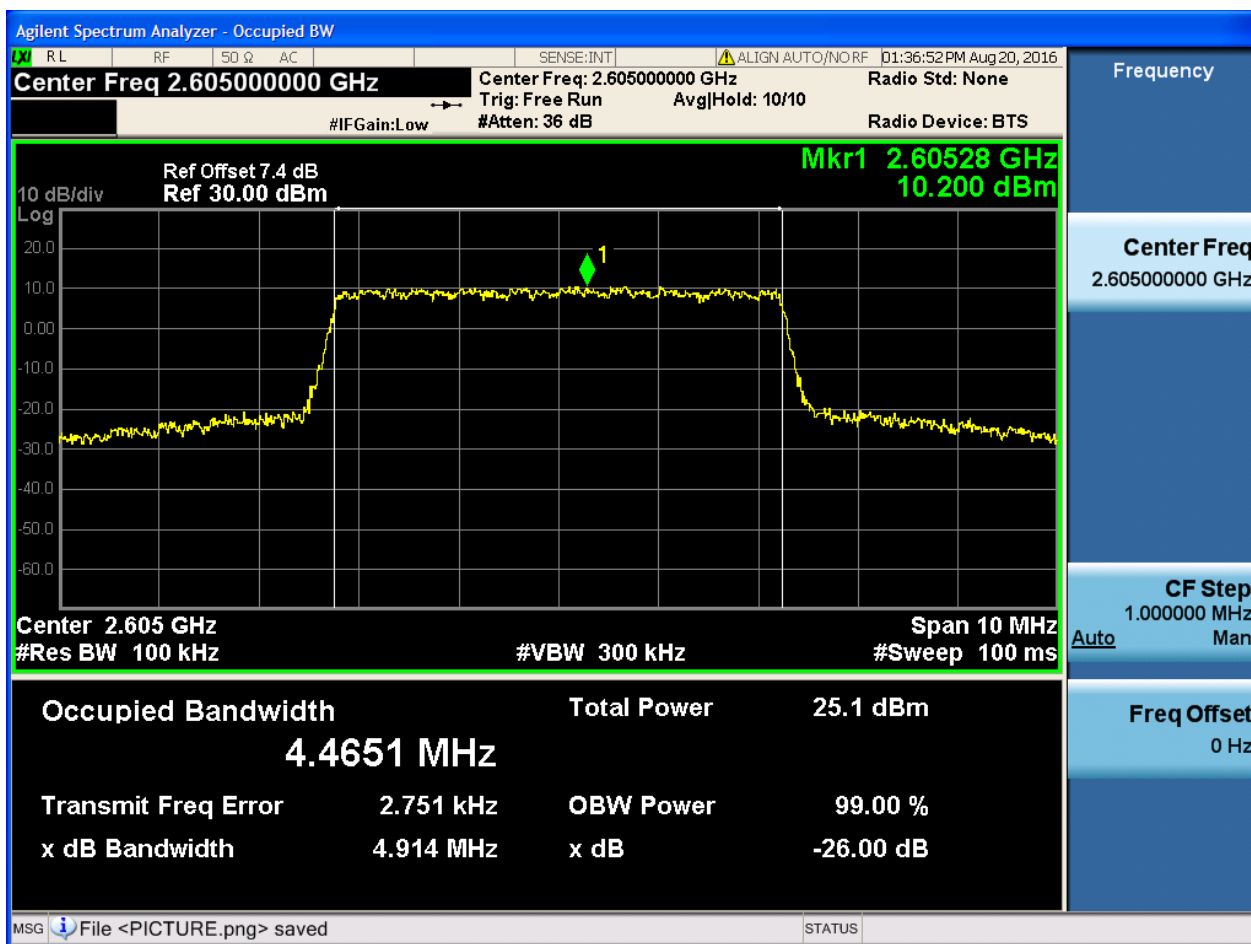
4.1.2.2.1.1.1 Test RB = RB25#0





4.1.2.2.1.2 Test Channel = MCH

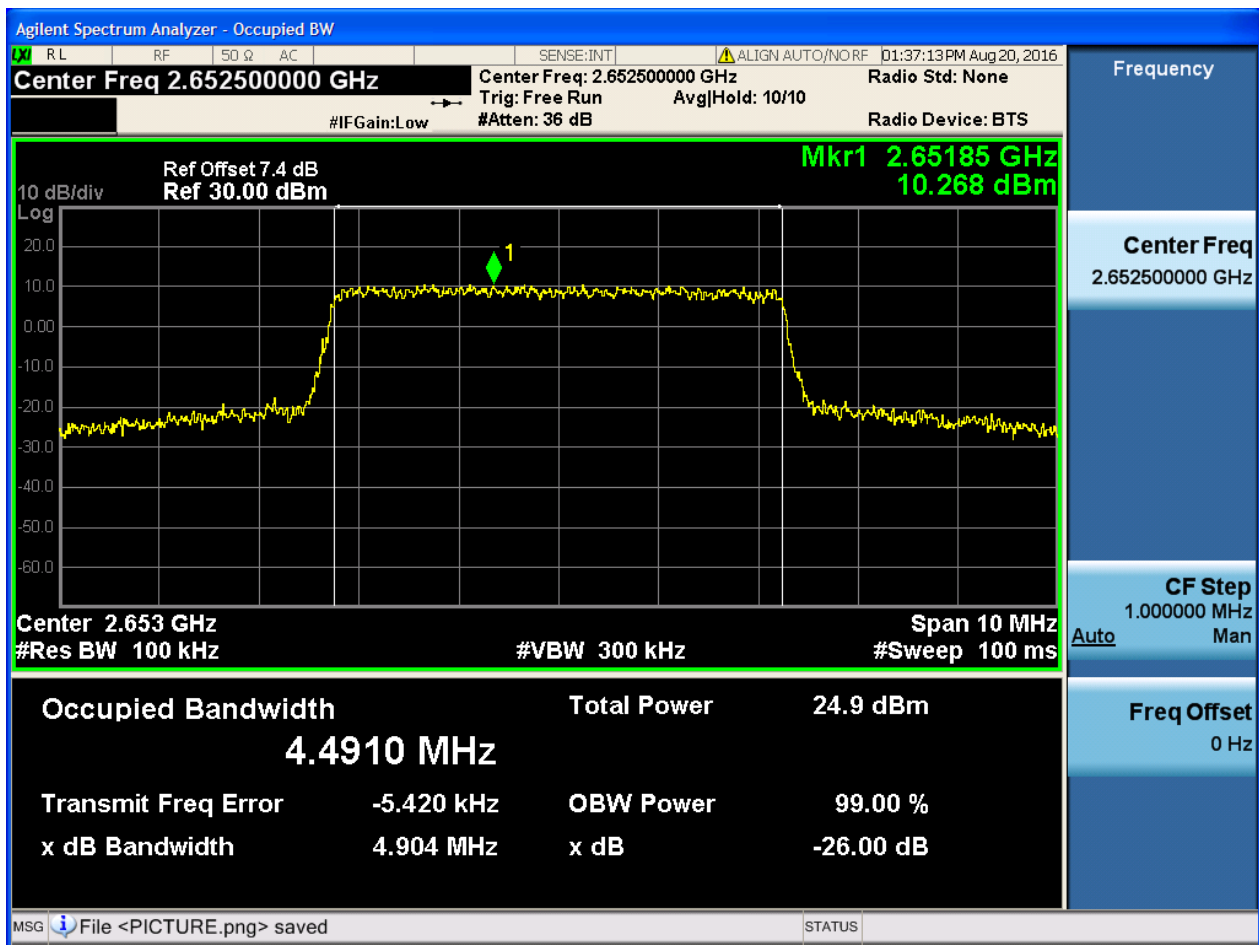
4.1.2.2.1.2.1 Test RB = RB25#0





4.1.2.2.1.3 Test Channel = HCH

4.1.2.2.1.3.1 Test RB = RB25#0

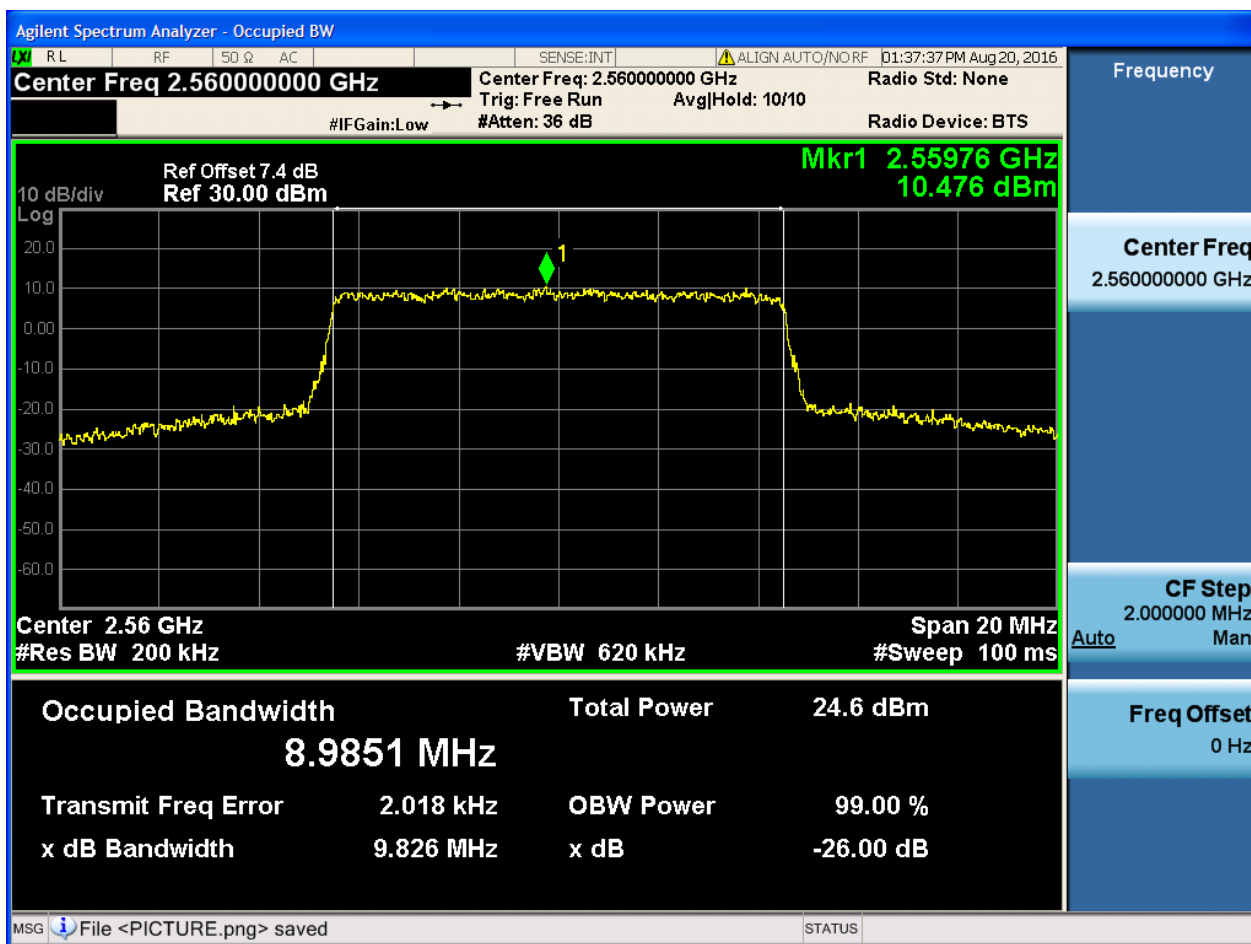




4.1.2.2.2 Test Bandwidth = 10

4.1.2.2.2.1 Test Channel = LCH

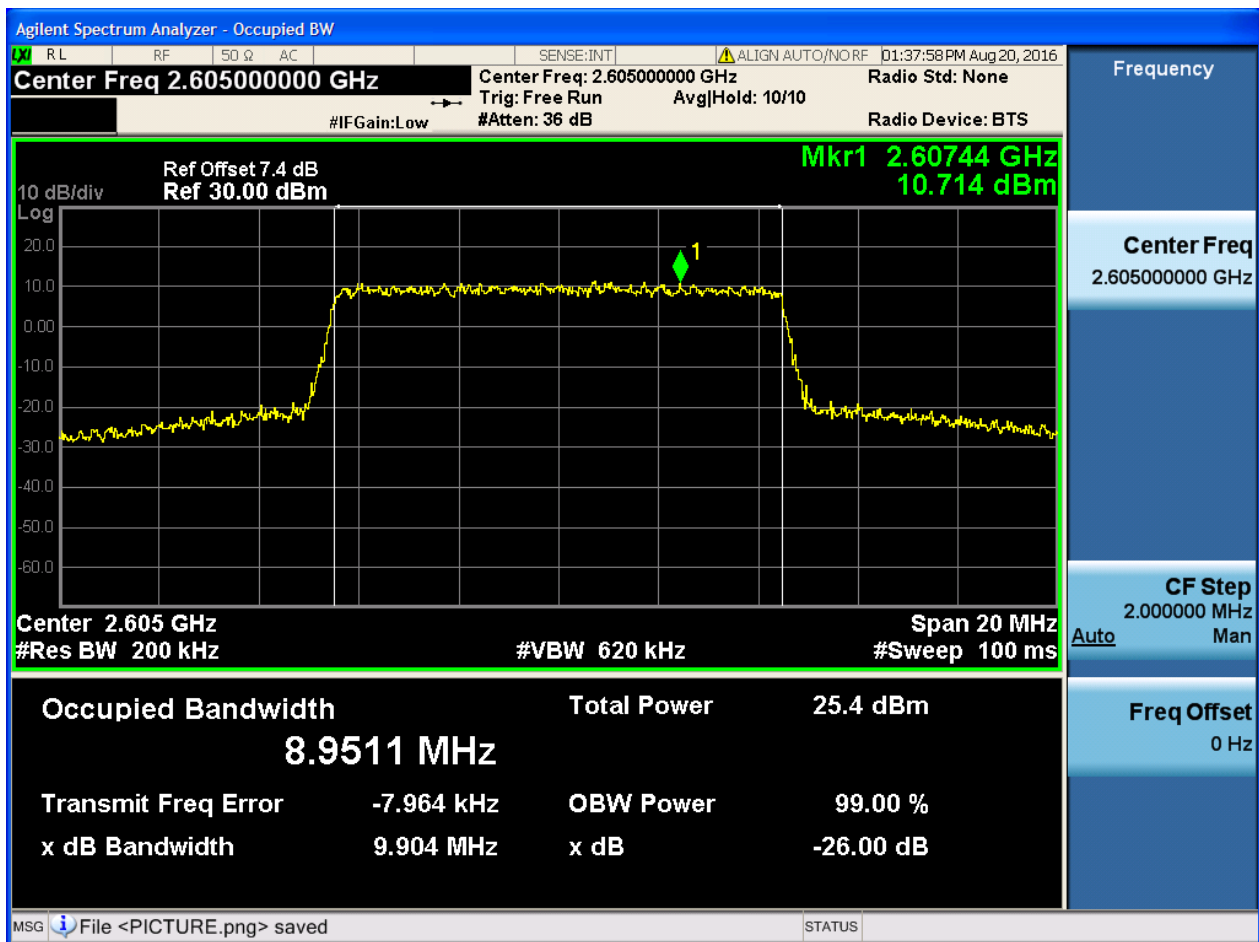
4.1.2.2.2.1.1 Test RB = RB50#0





4.1.2.2.2 Test Channel = MCH

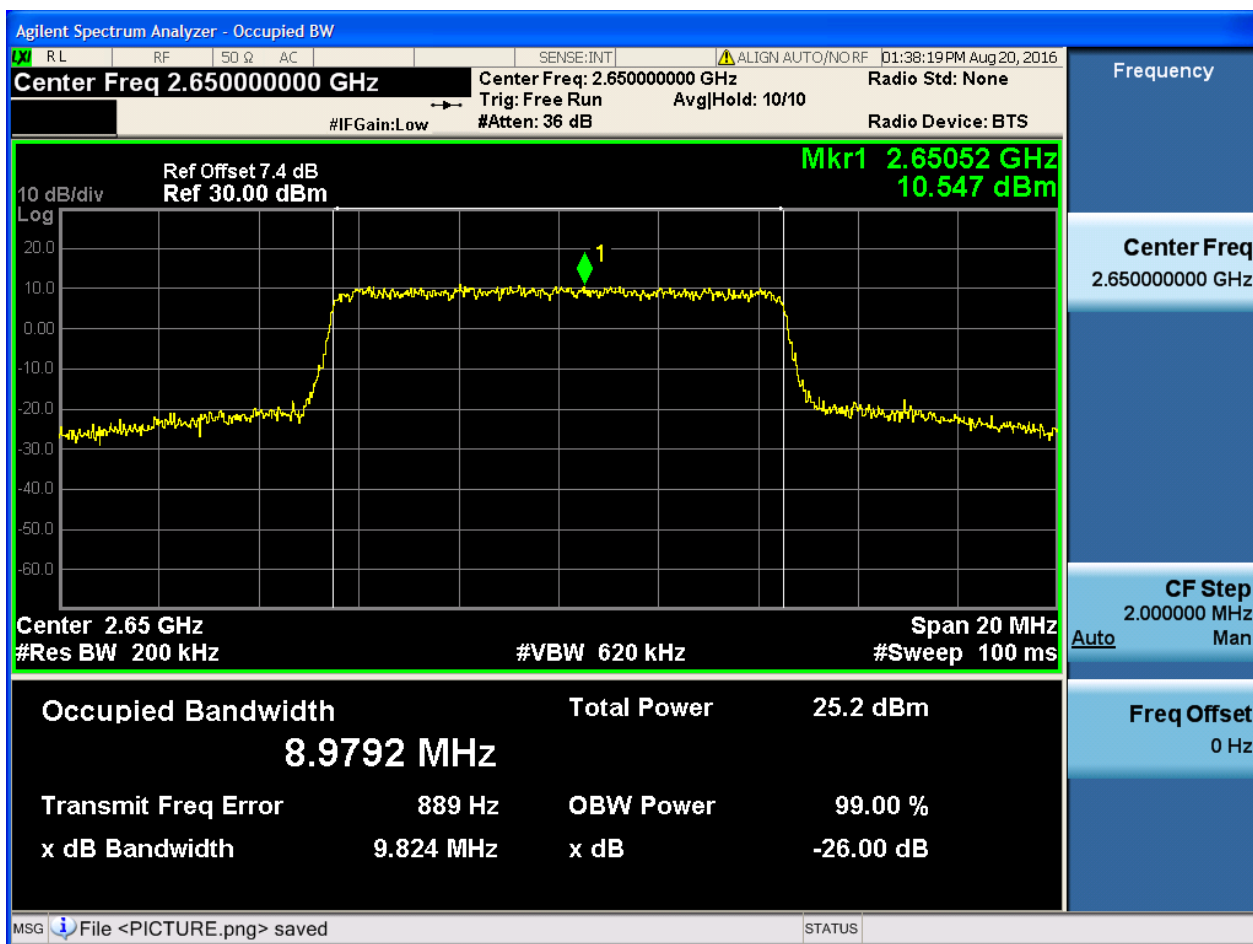
4.1.2.2.2.1 Test RB = RB50#0





4.1.2.2.2.3 Test Channel = HCH

4.1.2.2.2.3.1 Test RB = RB50#0

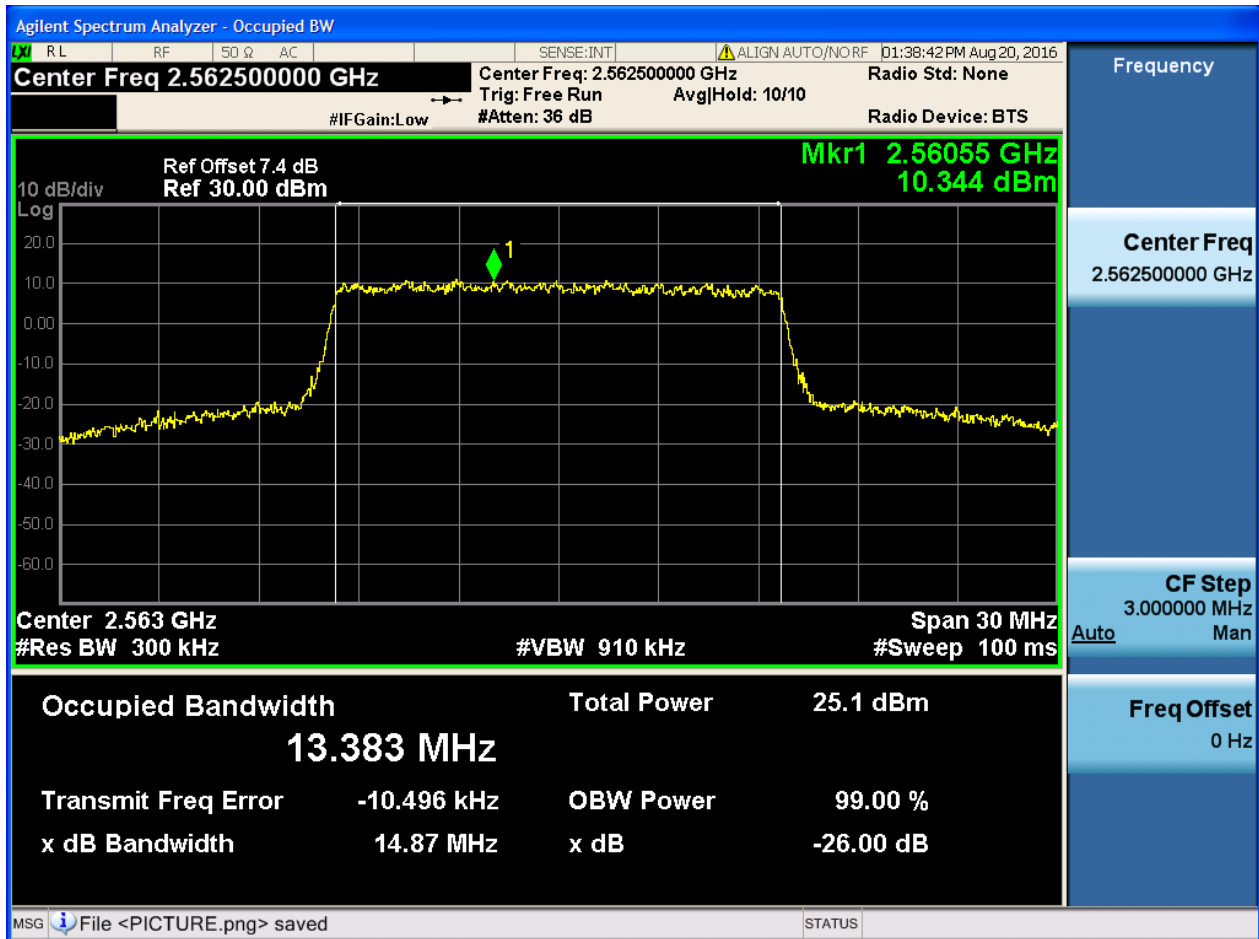




4.1.2.2.3 Test Bandwidth = 15

4.1.2.2.3.1 Test Channel = LCH

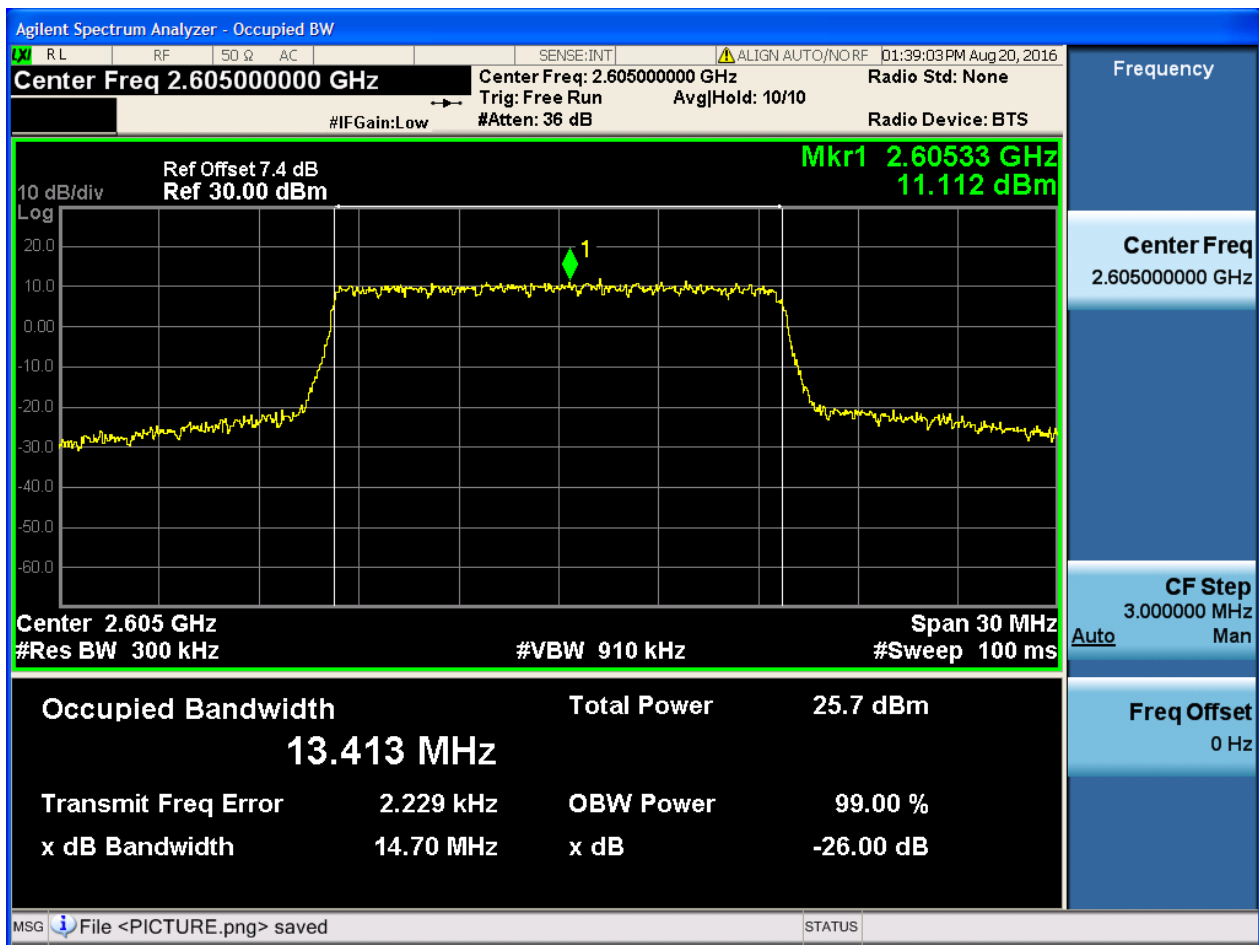
4.1.2.2.3.1.1 Test RB = RB75#0





4.1.2.2.3.2 Test Channel = MCH

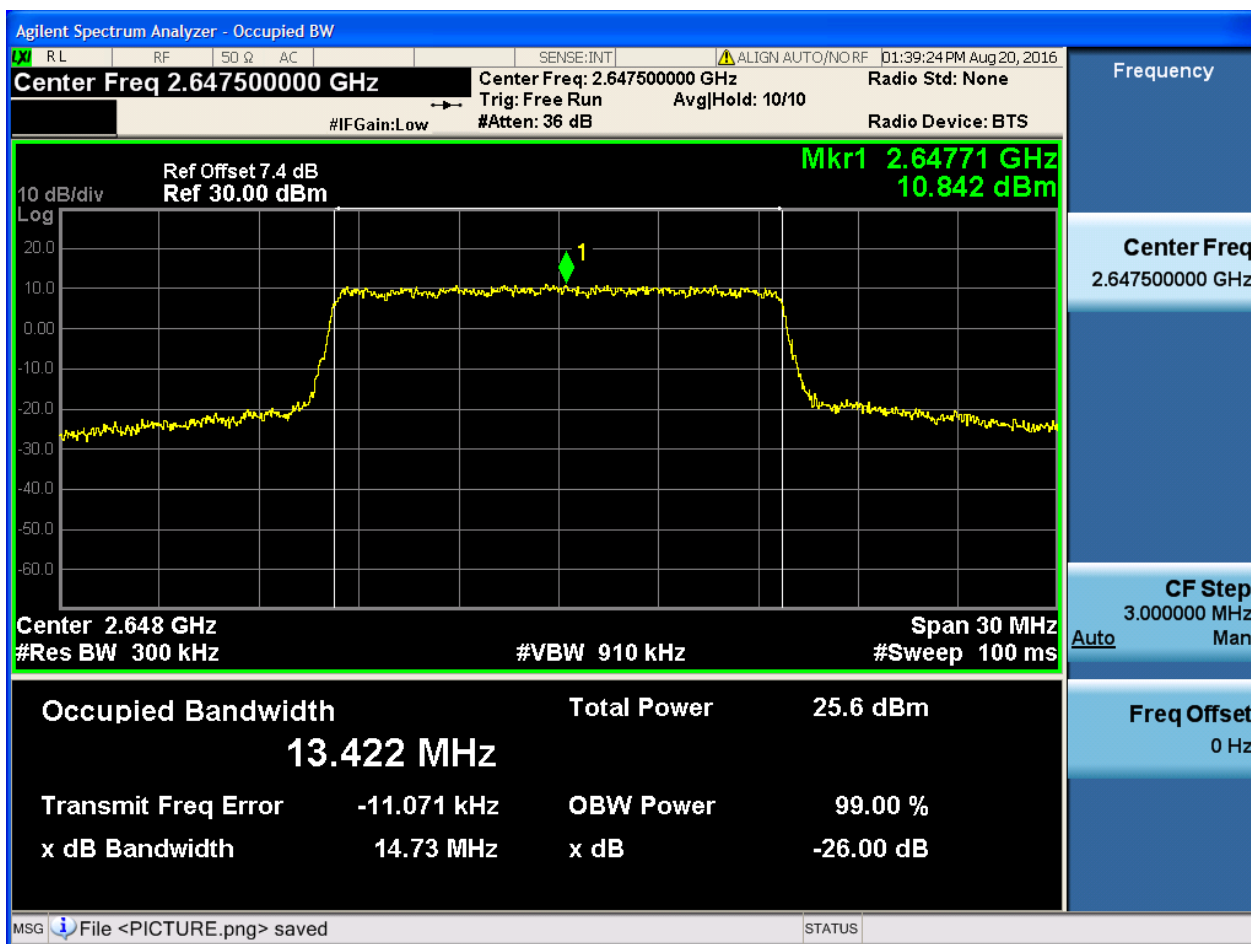
4.1.2.2.3.2.1 Test RB = RB75#0





4.1.2.2.3.3 Test Channel = HCH

4.1.2.2.3.3.1 Test RB = RB75#0

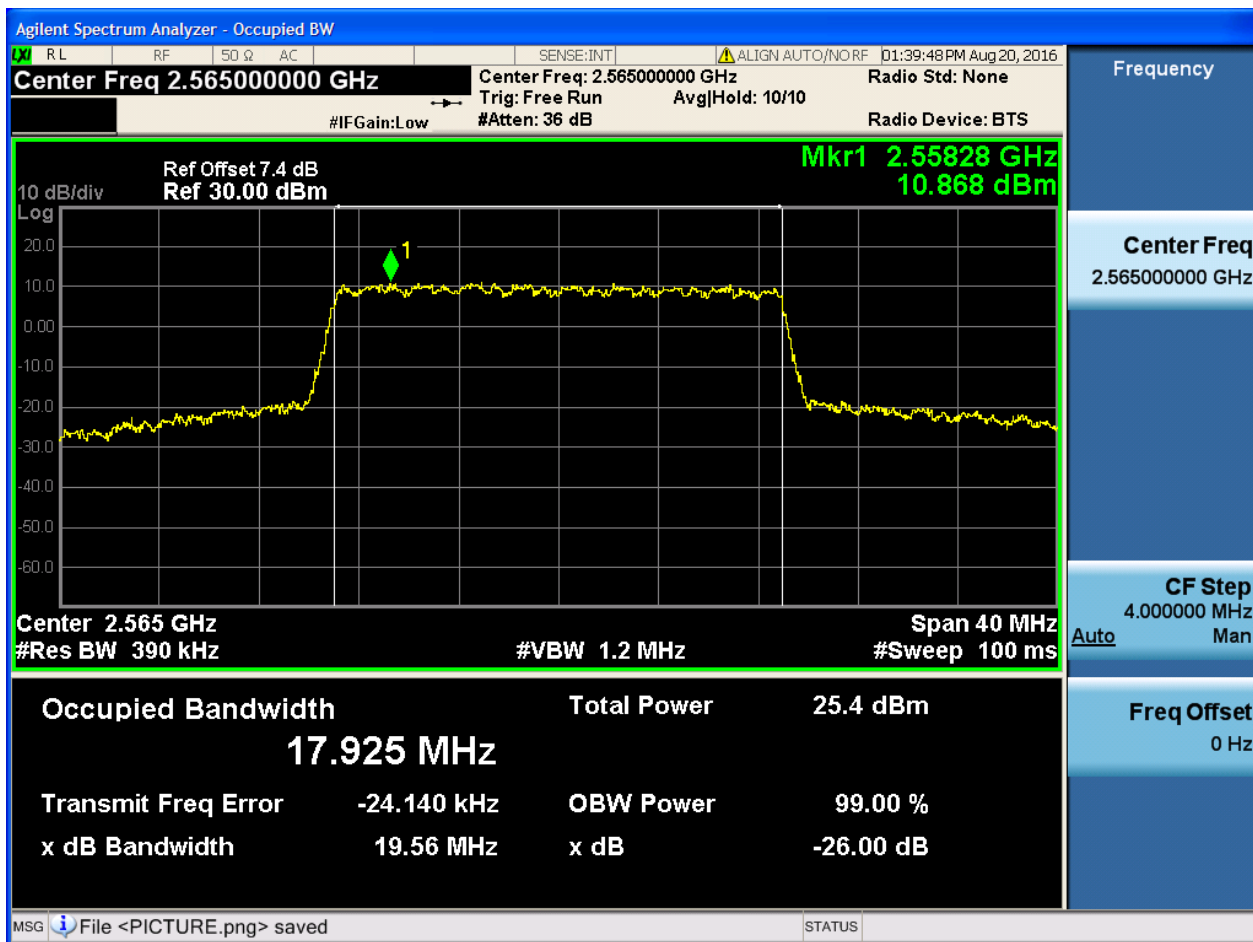




4.1.2.2.4 Test Bandwidth = 20

4.1.2.2.4.1 Test Channel = LCH

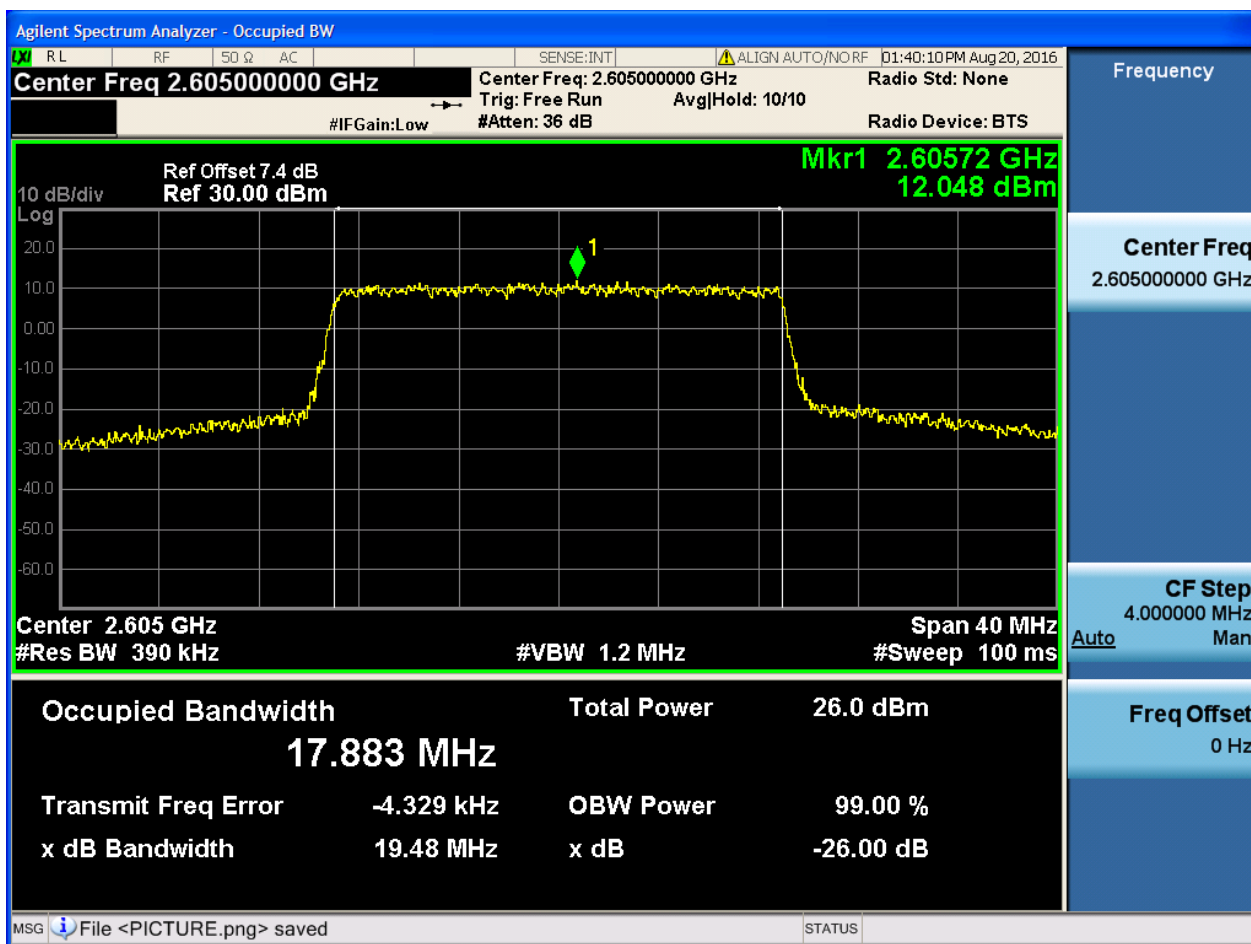
4.1.2.2.4.1.1 Test RB = RB100#0





4.1.2.2.4.2 Test Channel = MCH

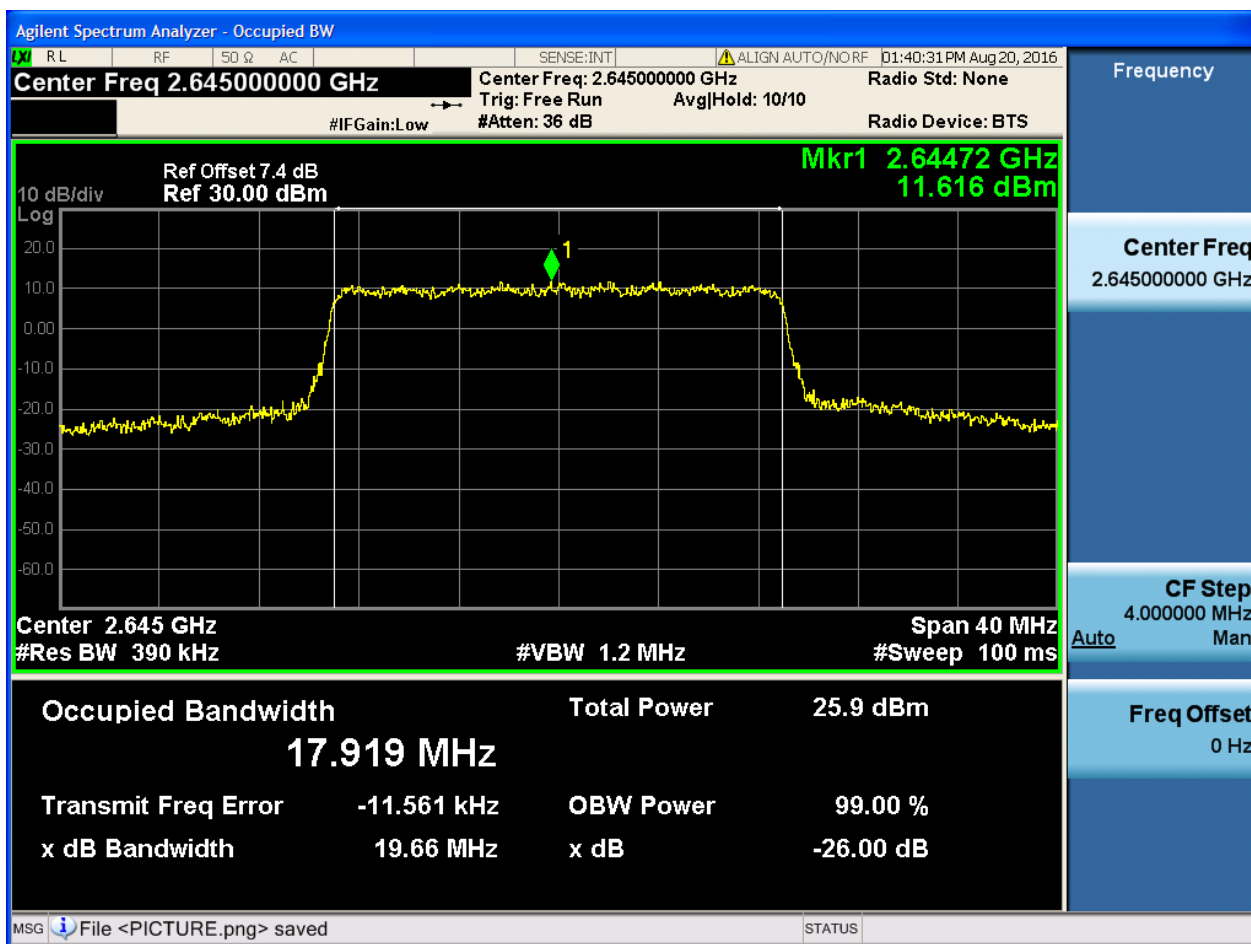
4.1.2.2.4.2.1 Test RB = RB100#0





4.1.2.2.4.3 Test Channel = HCH

4.1.2.2.4.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

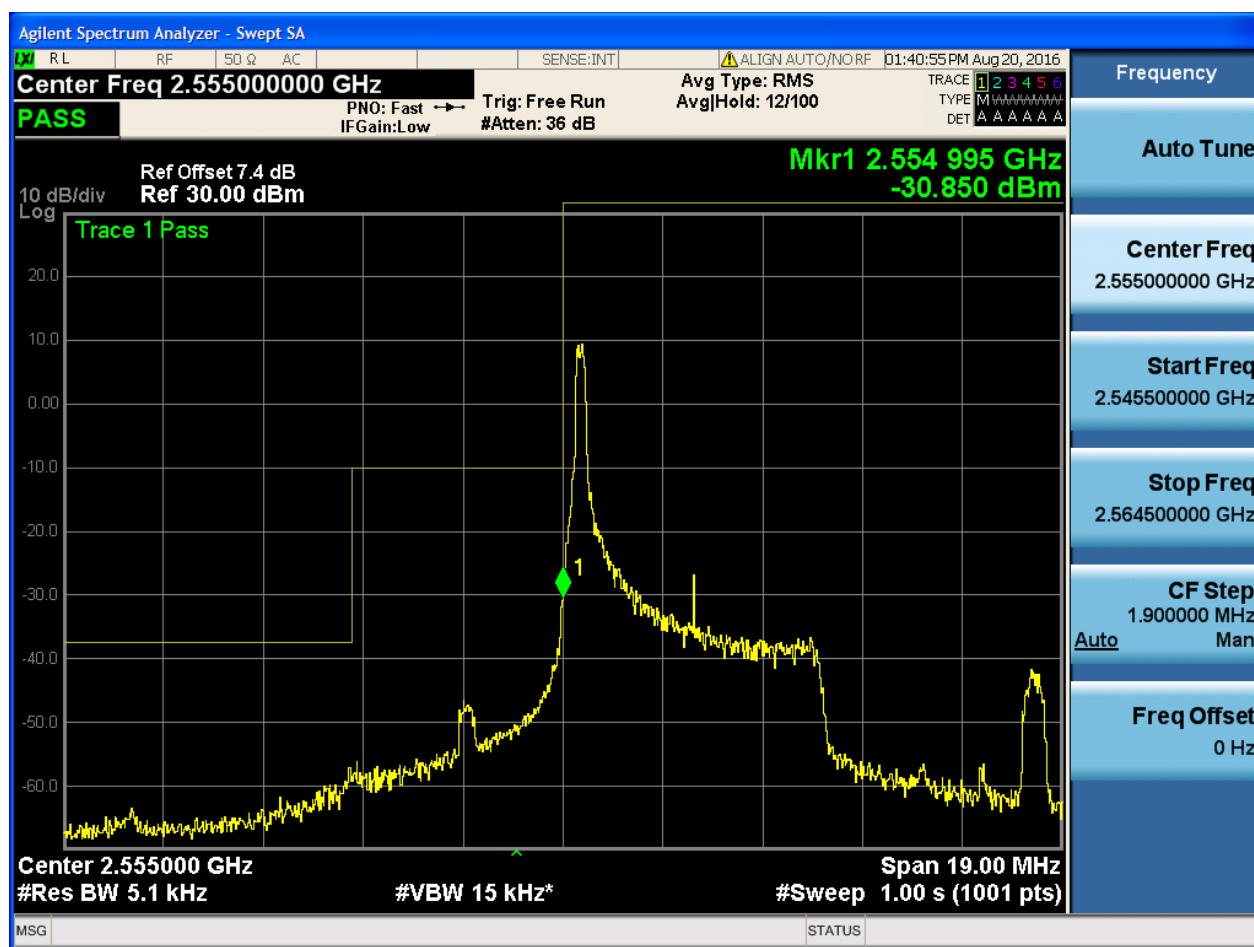
5.1.1 Test Band = BAND41

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



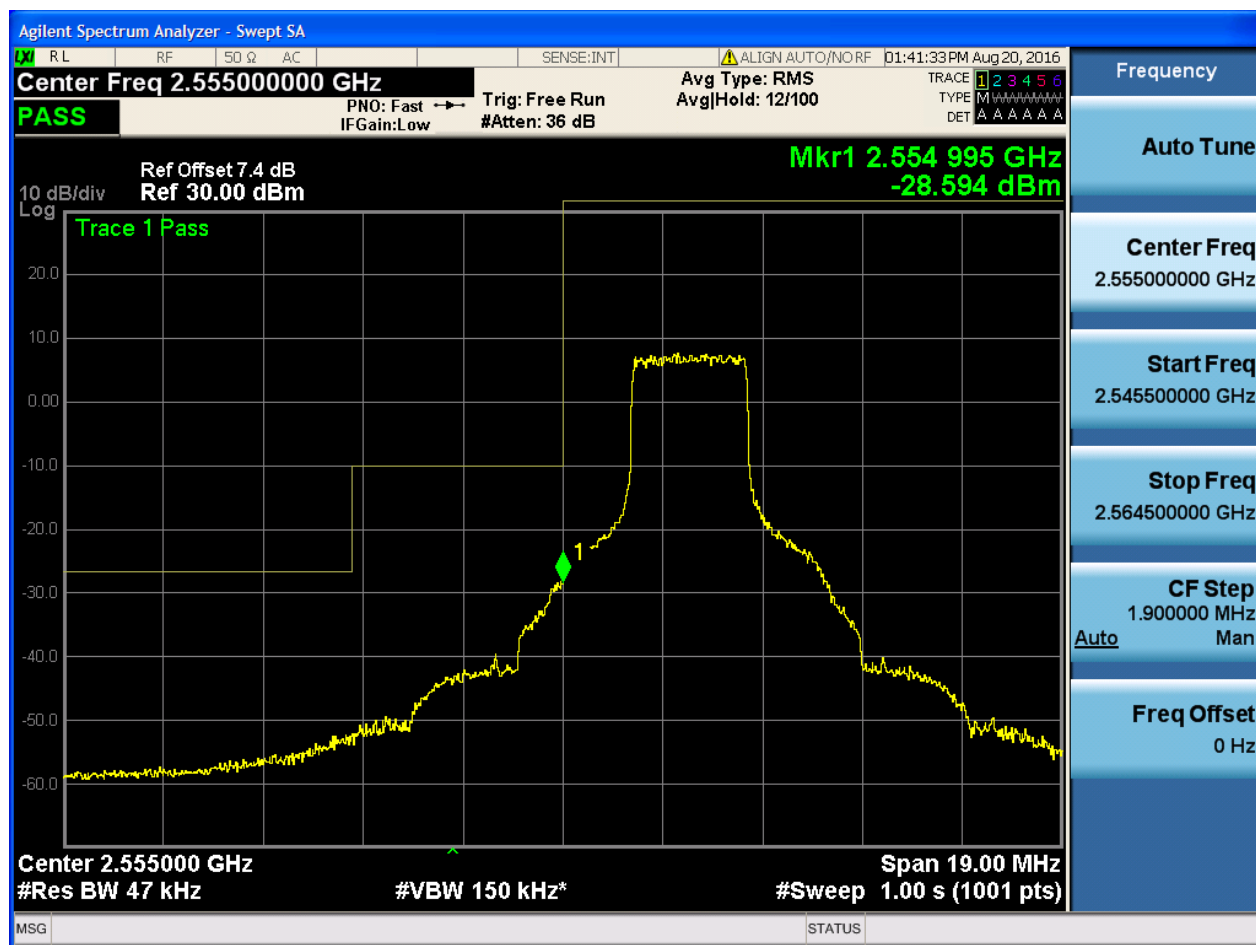


5.1.1.1.1.2 Test RB = RB1#24





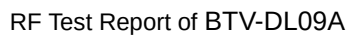
5.1.1.1.1.3 Test RB = RB12#6





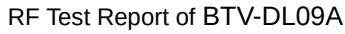
5.1.1.1.1.4 Test RB = RB25#0





5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.65500000 GHz

PASS

Ref Offset 7.4 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-32.549 dBm

Trace 1 Pass

Center 2.65500 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.655000000 GHz

Start Freq
2.644000000 GHz

Stop Freq
2.666000000 GHz

CF Step
2.200000 MHz
Man

Auto

Freq Offset
0 Hz

MSG

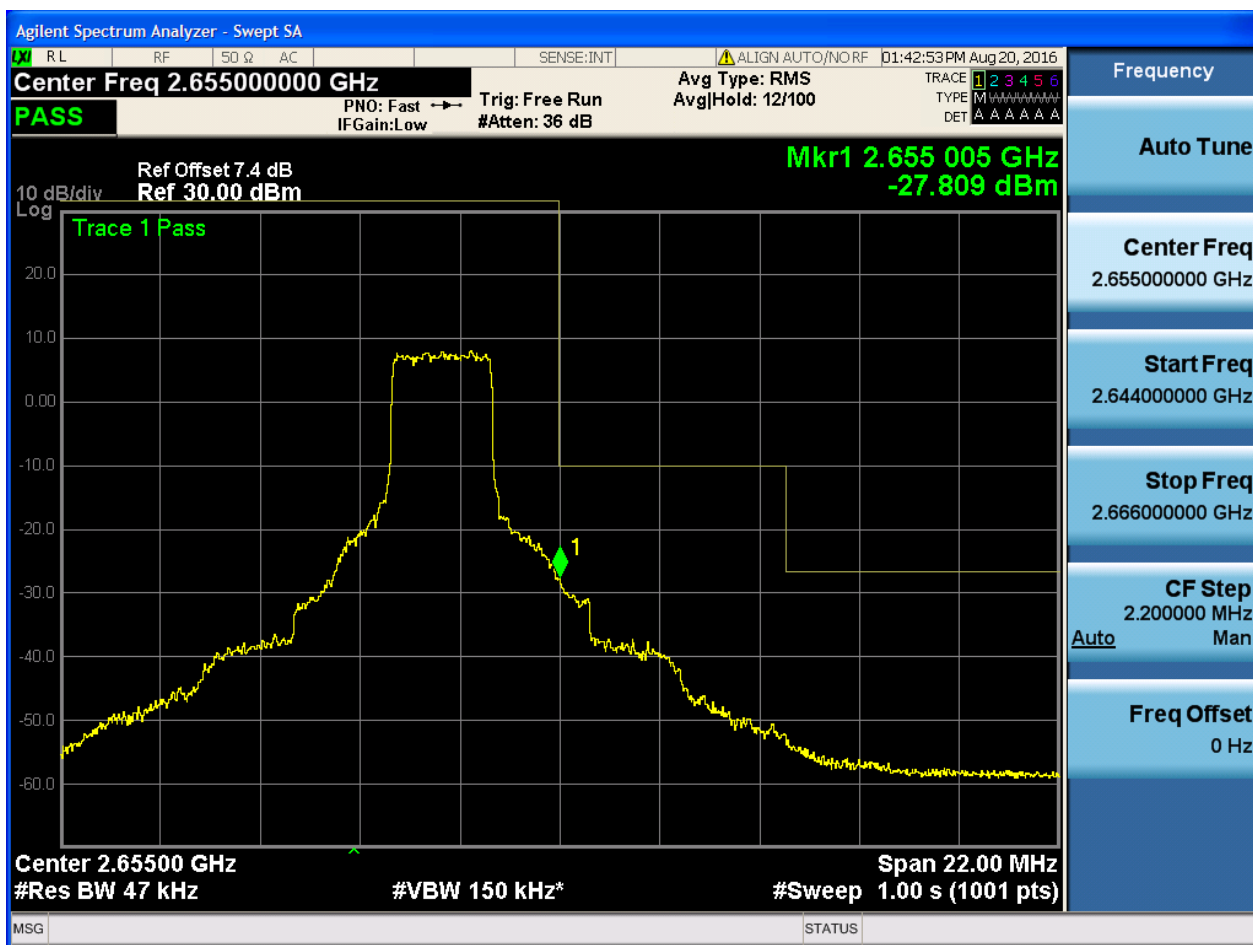
STATUS

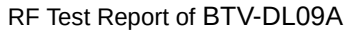
Meas Uncal

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-frequency plot with a yellow trace. The center frequency is set to 2.65500000 GHz. The reference level is 30.00 dBm, and the reference offset is 7.4 dB. A marker is placed at the peak of the signal, which is at 2.655005 GHz with a power level of -32.549 dBm. The span is 22.00 MHz, and the resolution bandwidth (RBW) is 5.1 kHz. The video bandwidth (VBW) is 15 kHz. The sweep time is 1.00 s. The trace is labeled 'Trace 1 Pass'. The status bar at the bottom indicates 'Meas Uncal'.



5.1.1.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO/NORF 01:43:12 PM Aug 20, 2016

Center Freq 2.65500000 GHz Avg Type: RMS
#Res BW 91 kHz #Sweep 1.00 s (1001 pts)

PASS PNO: Fast 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 7.4 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-23.337 dBm

10 dB/div
Log

Trace 1 Pass

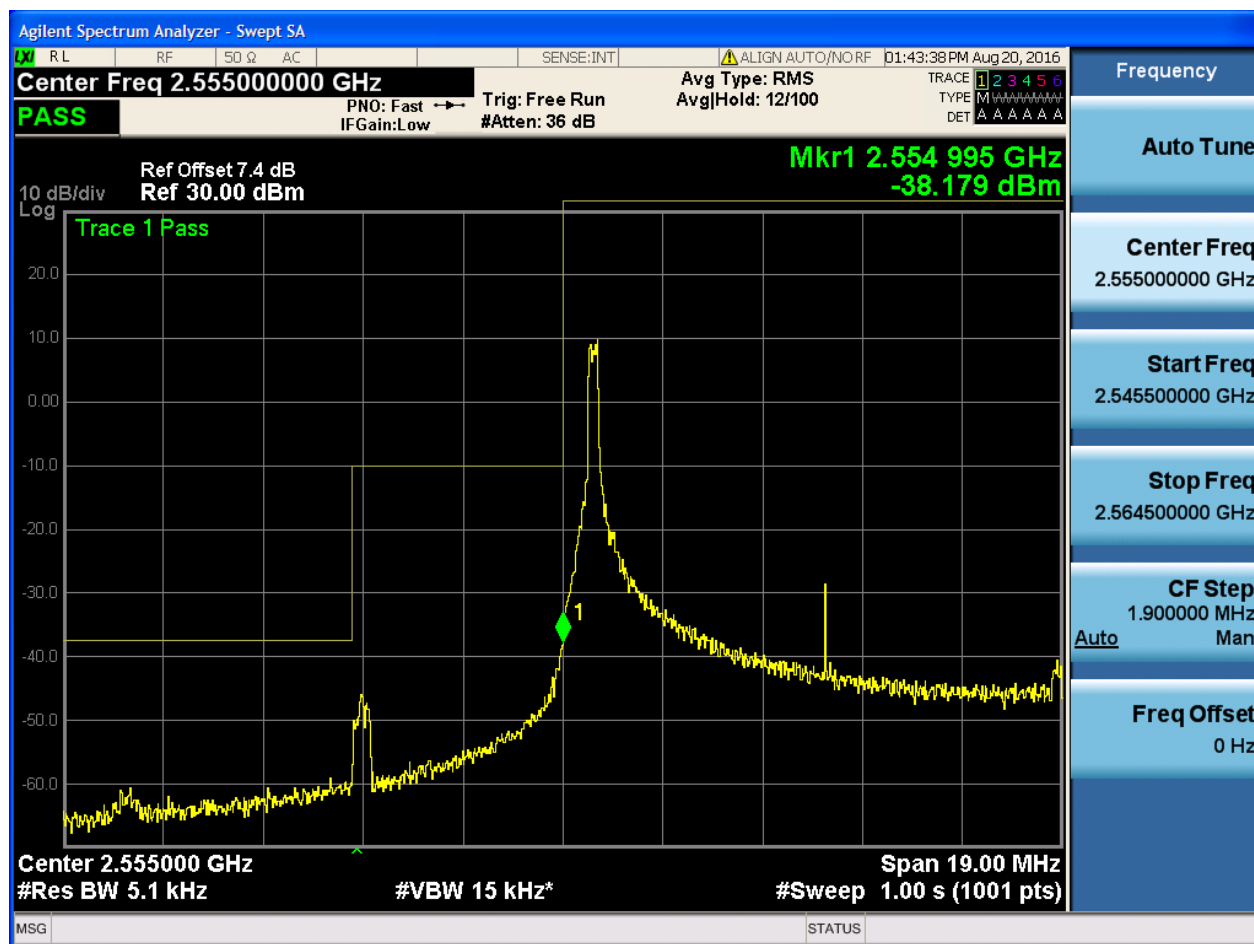
Center 2.65500 GHz Span 22.00 MHz
#Res BW 91 kHz #VBW 270 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



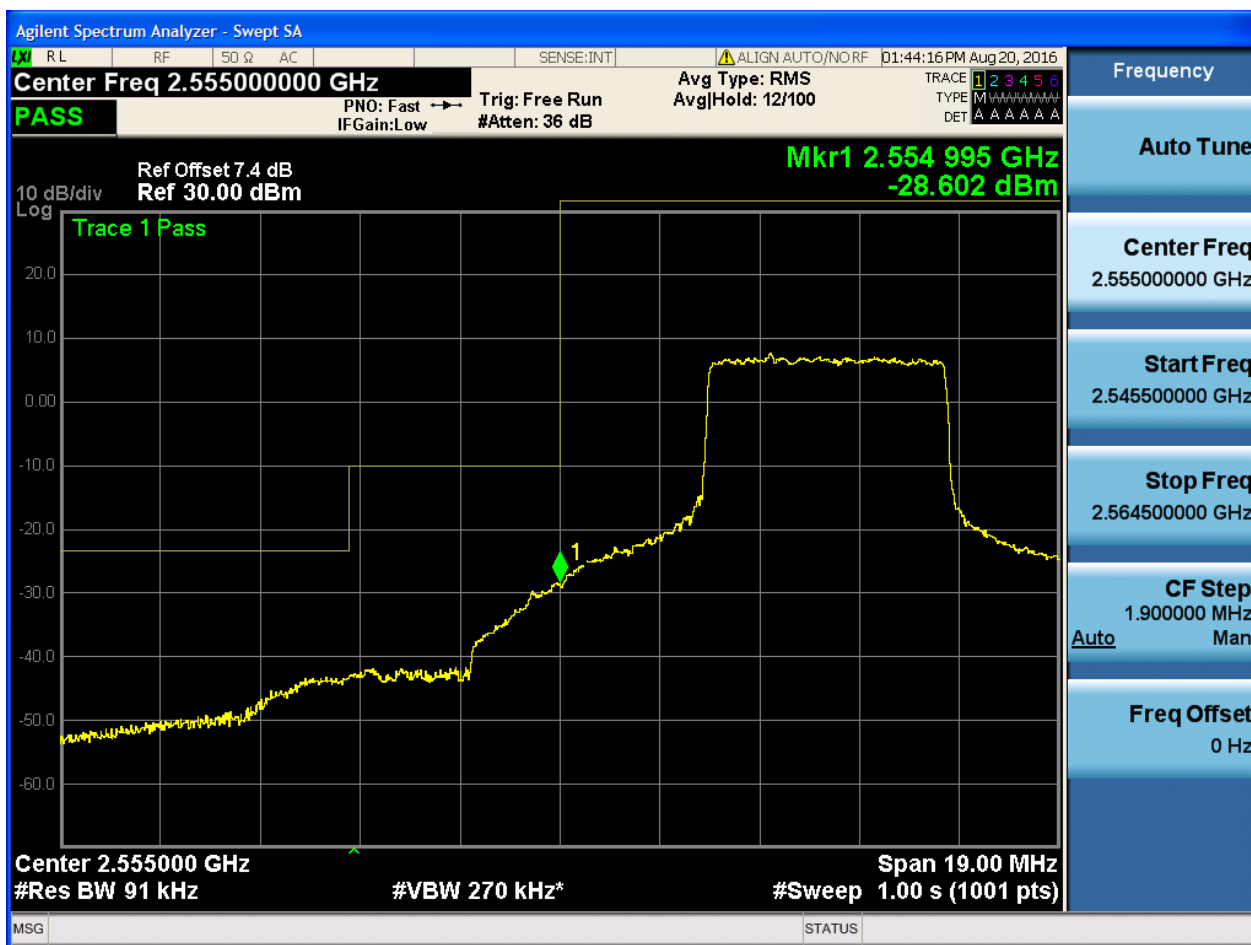


5.1.1.1.2.1.2 Test RB = RB1#49





5.1.1.1.2.1.3 Test RB = RB25#13





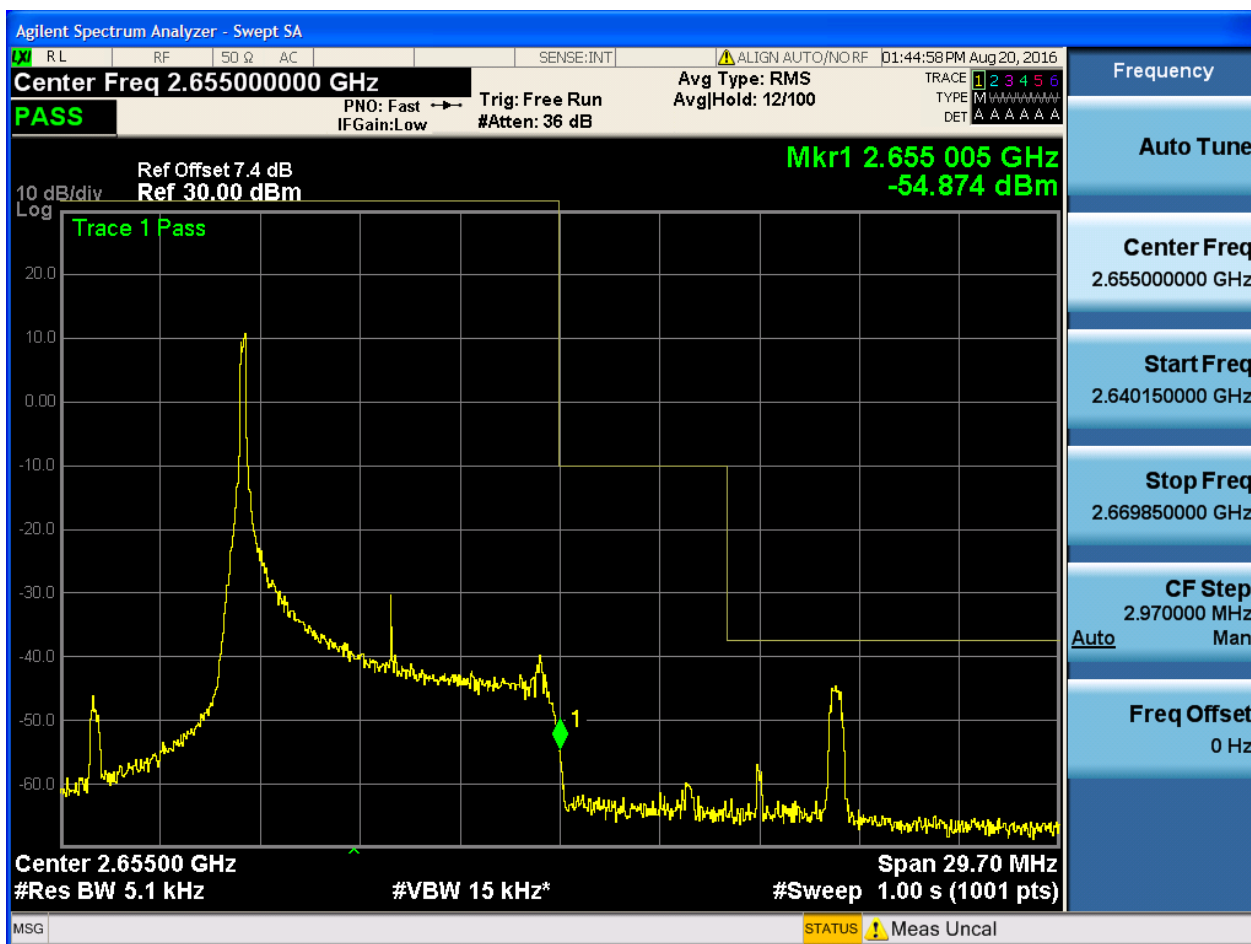
5.1.1.1.2.1.4 Test RB = RB50#0





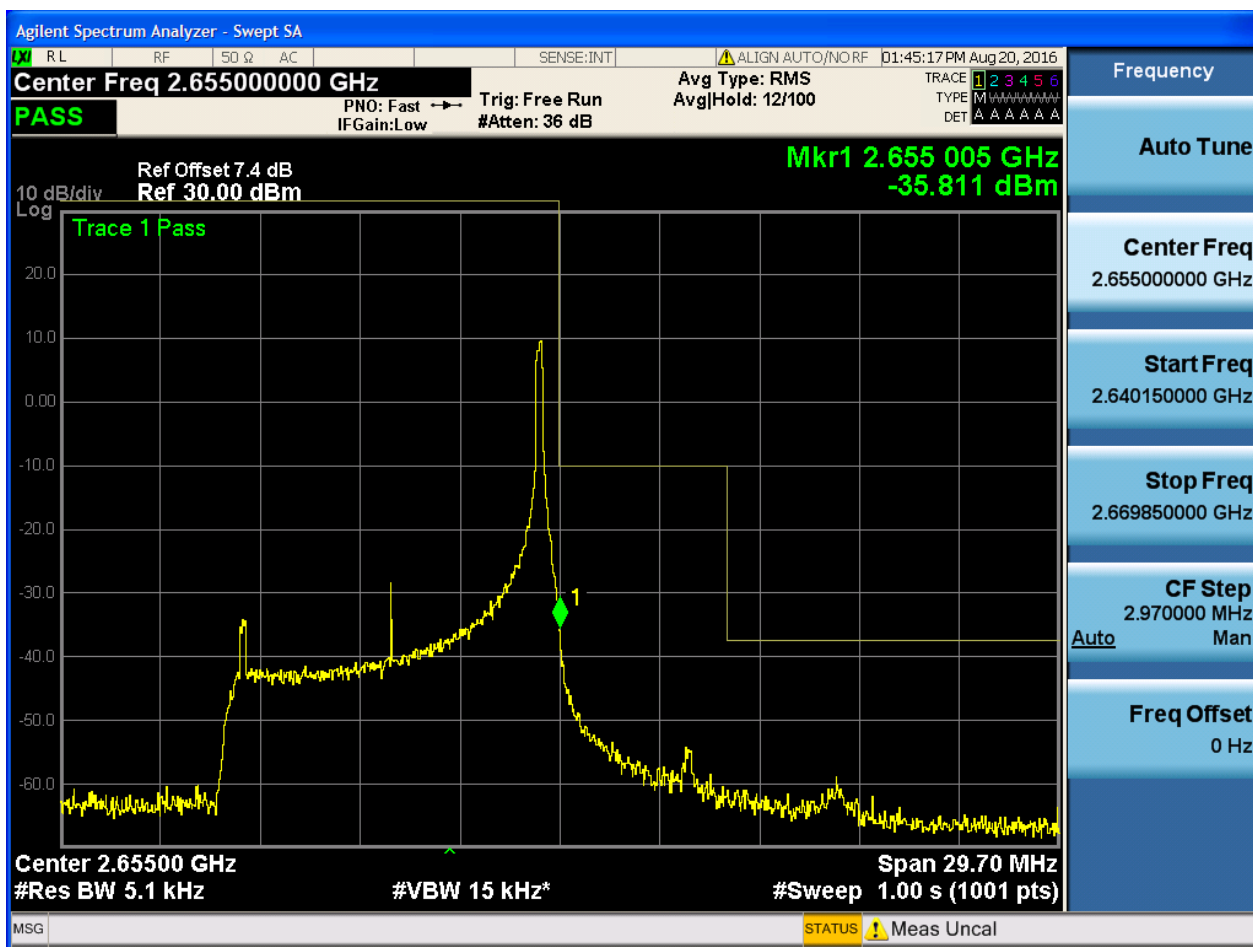
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





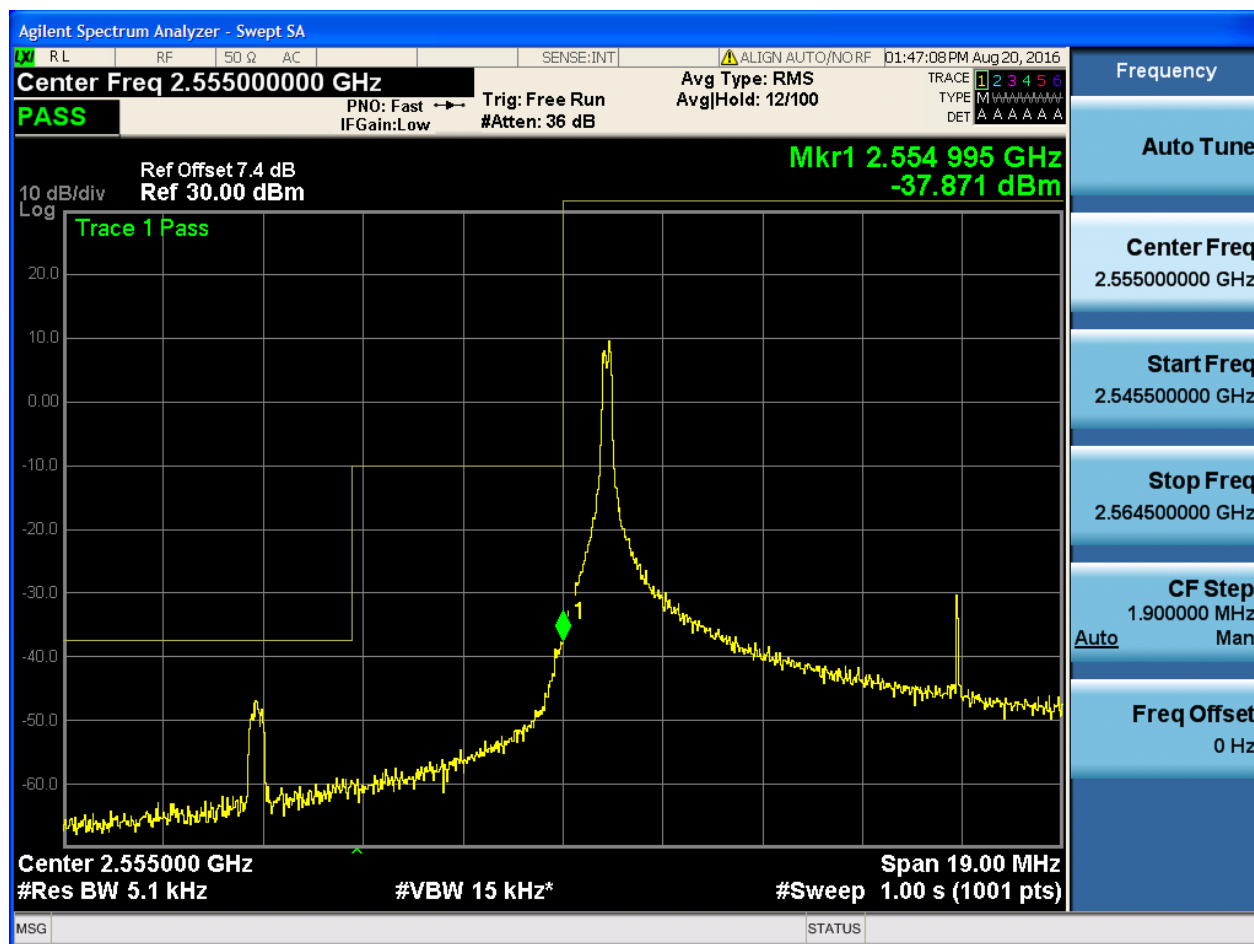
5.1.1.1.2.2.4 Test RB = RB50#0



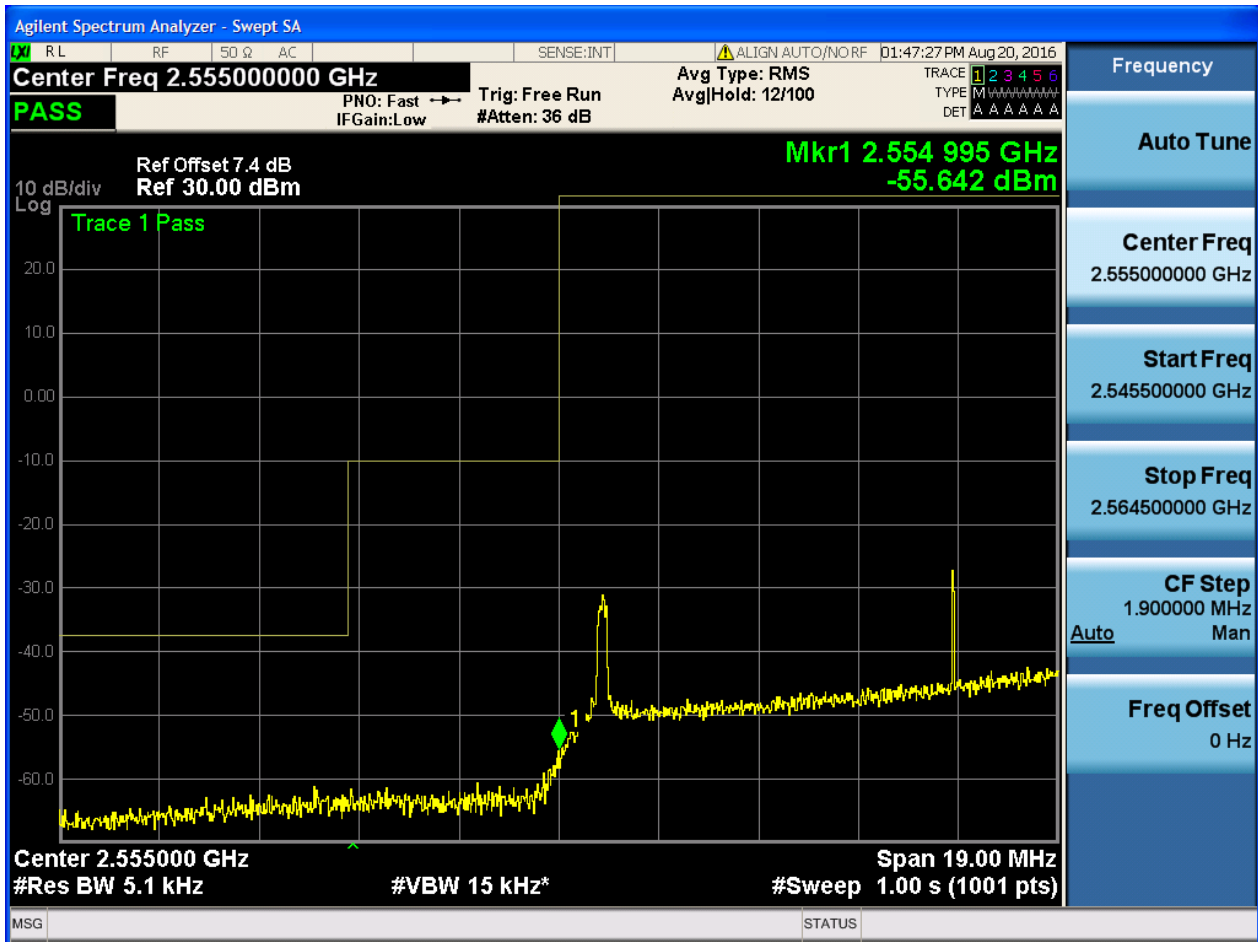
5.1.1.1.3 Test Bandwidth = 15

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#74





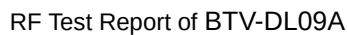
5.1.1.1.3.1.3 Test RB = RB36#18



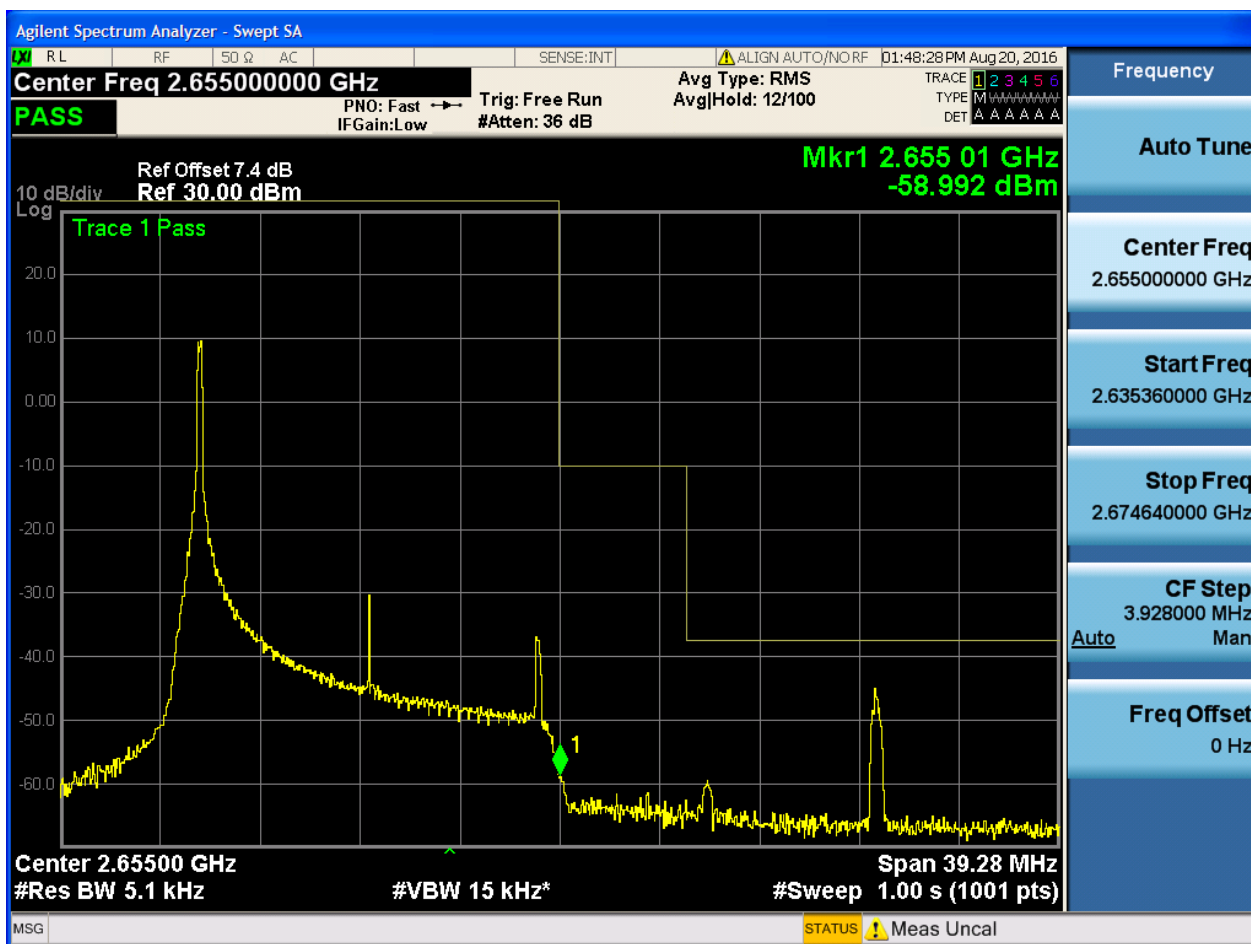


5.1.1.1.3.1.4 Test RB = RB75#0



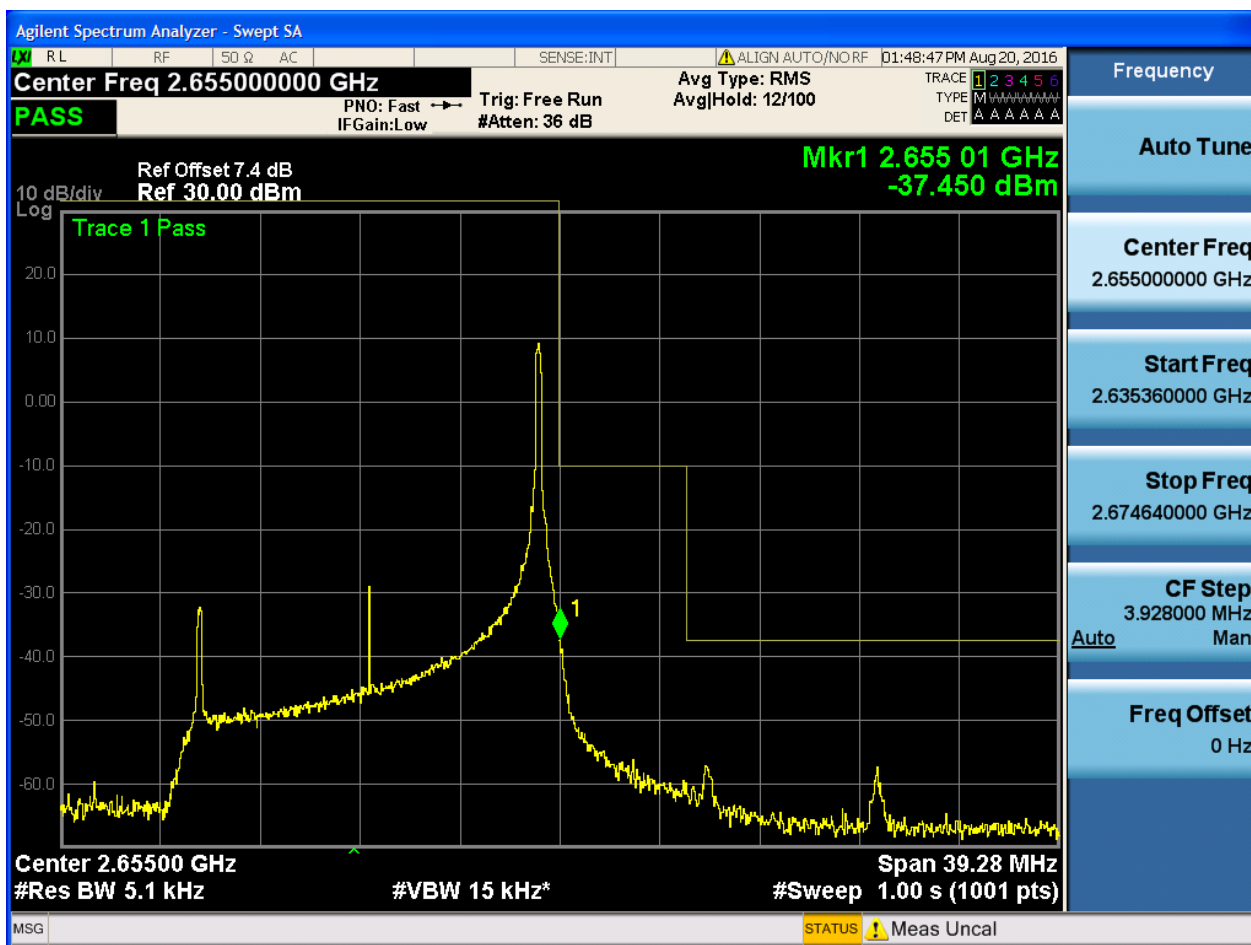


5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

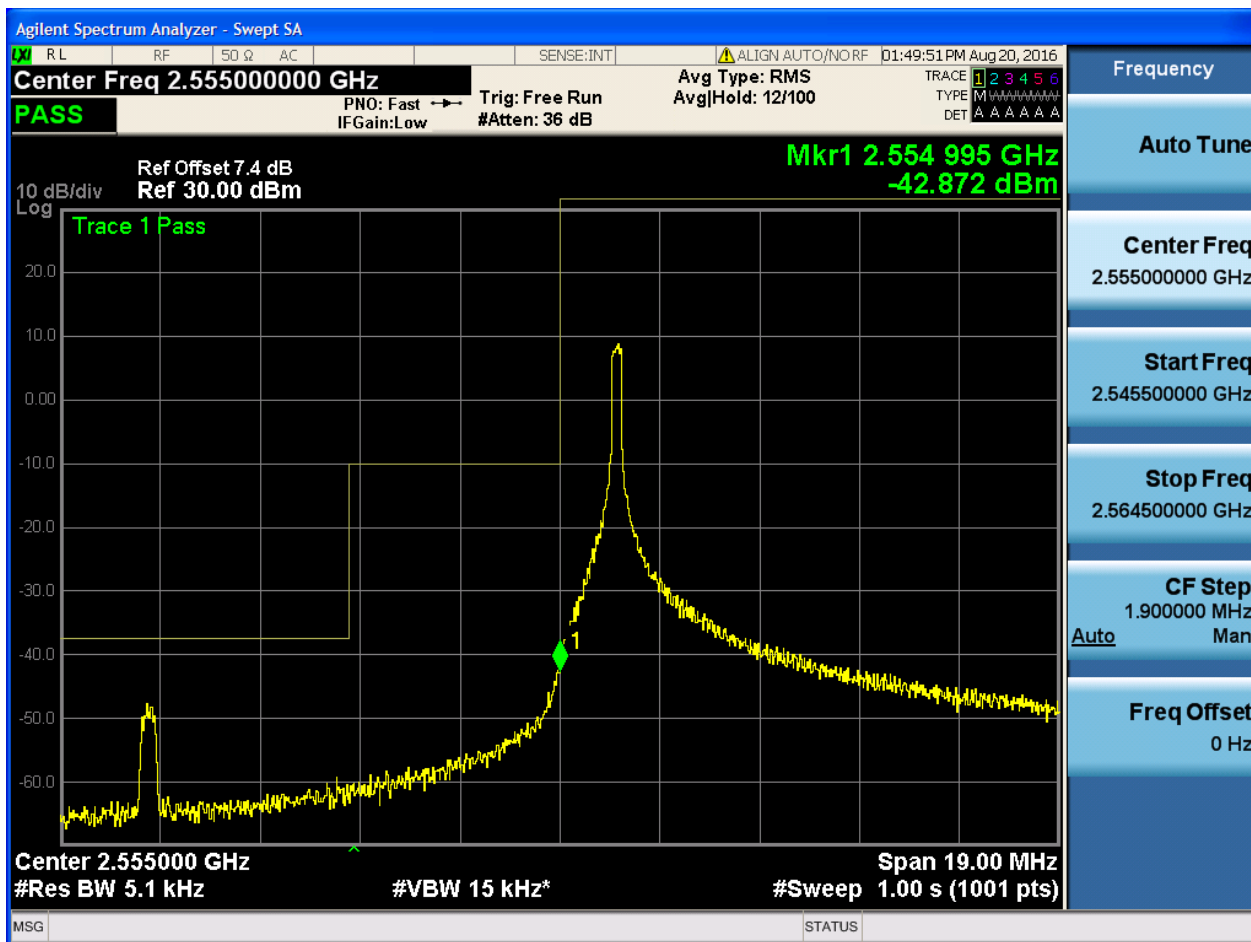


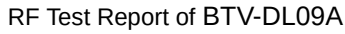


5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.555000000 GHz

Ref Offset 7.4 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.554 995 GHz
-59.019 dBm

Center 2.555000 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545500000 GHz

Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a frequency spectrum plot with a logarithmic scale. The x-axis represents frequency, and the y-axis represents power in dBm. A prominent peak is visible at 2.554995 GHz, marked with a green diamond and labeled 'Mkr1'. The peak power is -59.019 dBm. The plot shows a noisy baseline with a sharp rise to the peak. The interface includes various control panels and status indicators. At the top, the center frequency is set to 2.555000000 GHz. The reference level is 30.00 dBm. The span is 19.00 MHz. The resolution bandwidth (RBW) is 5.1 kHz, and the video bandwidth (VBW) is 15 kHz. The sweep time is 1.00 s. The right side of the screen displays key parameters: Center Freq (2.555000000 GHz), Start Freq (2.545500000 GHz), Stop Freq (2.564500000 GHz), CF Step (1.900000 MHz), and Freq Offset (0 Hz). The bottom status bar shows 'MSG' and 'STATUS' indicators.



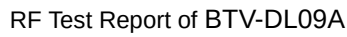
5.1.1.1.4.1.3 Test RB = RB50#25



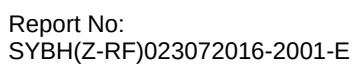


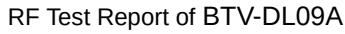
5.1.1.1.4.1.4 Test RB = RB100#0





5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.65500000 GHz

Ref Offset 7.4 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.655 01 GHz
-42.618 dBm

Center 2.65500 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*

Span 48.64 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.65500000 GHz

Start Freq
2.630680000 GHz

Stop Freq
2.679320000 GHz

CF Step
4.864000 MHz
Man

Auto

Freq Offset
0 Hz

MSG

STATUS

Meas Uncal

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a swept spectrum plot with a yellow trace. A prominent peak is visible at 2.65501 GHz, marked with a green diamond and labeled '1'. The peak's power level is -42.618 dBm. The plot has a logarithmic scale (Log) and a reference level of 30.00 dBm. The center frequency is 2.65500 GHz, and the span is 48.64 MHz. The resolution bandwidth (Res BW) is 5.1 kHz, and the video bandwidth (VBW) is 15 kHz. The sweep time is 1.00 s. The display also shows various settings like PNO: Fast, IF Gain: Low, and Trig: Free Run. On the right side, there is a panel with various controls and readouts, including Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset. The bottom status bar shows 'MSG', 'STATUS', and 'Meas Uncal'.



5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

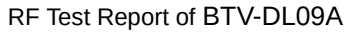
5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO/NORF 01:53:12 PM Aug 20, 2016

Center Freq 2.55500000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run Avg|Hold: 12/100
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 7.4 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-28.528 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz Span 19.00 MHz
#Res BW 47 kHz #VBW 150 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.55500000 GHz

Start Freq
2.545500000 GHz

Stop Freq
2.564500000 GHz

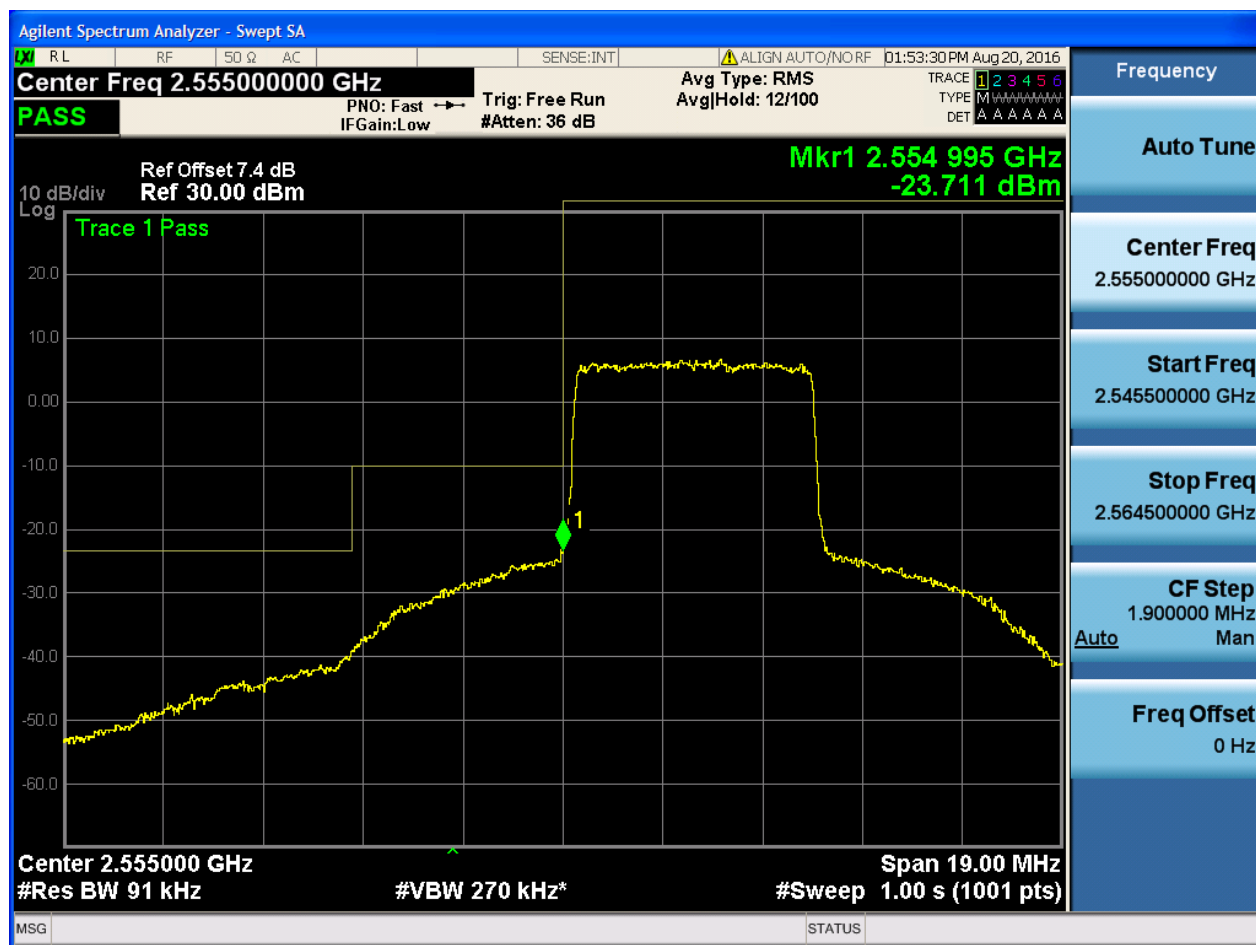
CF Step
1.900000 MHz
Man

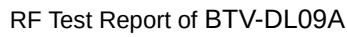
Auto

Freq Offset
0 Hz

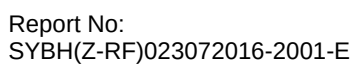


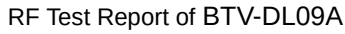
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.65500000 GHz

PASS

Ref Offset 7.4 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-29.424 dBm

Trace 1 Pass

Center 2.65500 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.655000000 GHz

Start Freq
2.644000000 GHz

Stop Freq
2.666000000 GHz

CF Step
2.200000 MHz
Man

Freq Offset
0 Hz

MSG

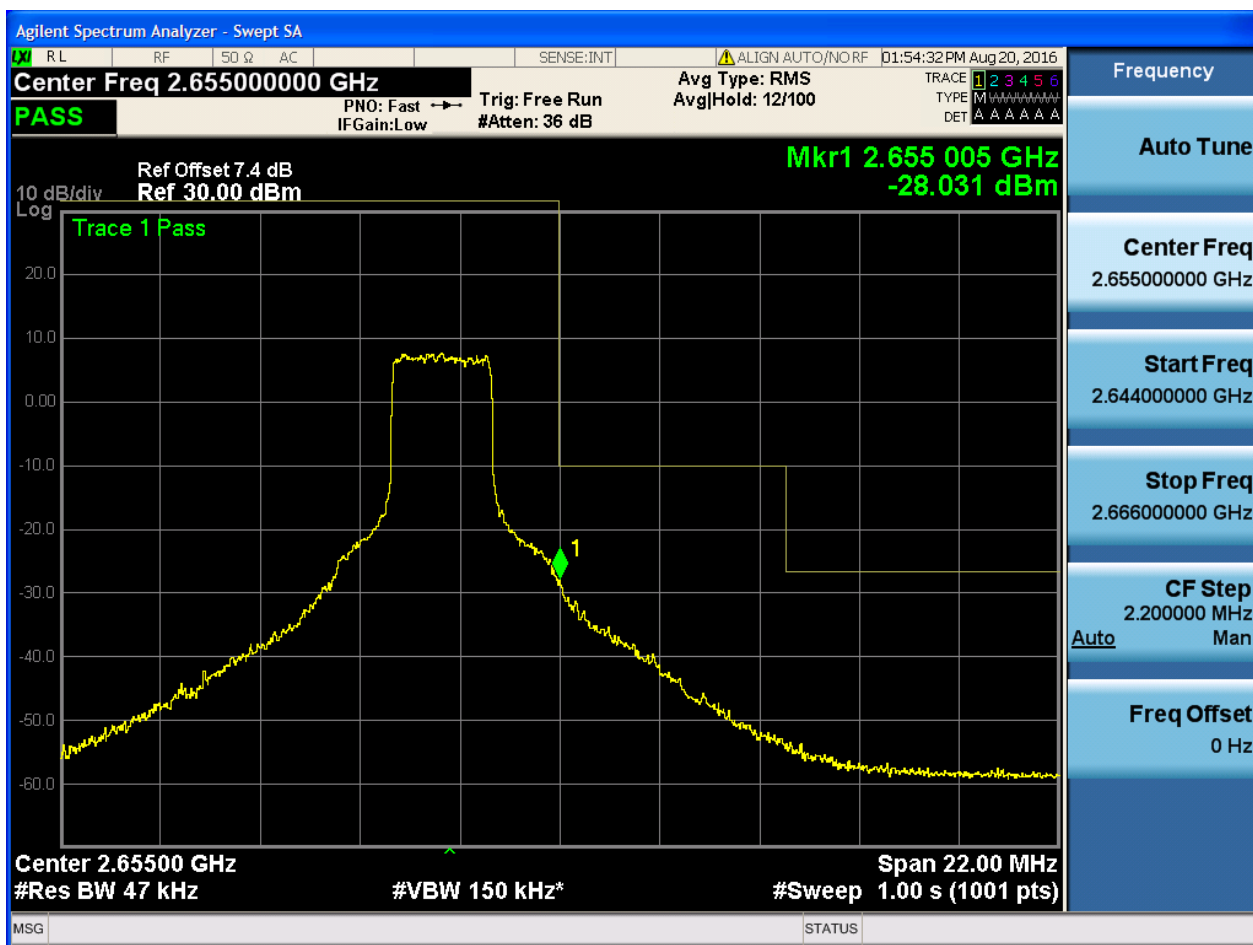
STATUS

Meas Uncal

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-frequency plot with a yellow trace. The x-axis represents frequency, and the y-axis represents power in dBm. A prominent peak is visible at 2.655 GHz, marked with a green diamond and labeled 'Mkr1 2.655 005 GHz -29.424 dBm'. The trace is labeled 'Trace 1 Pass'. The center frequency is set to 2.65500000 GHz, and the span is 22.00 MHz. The resolution bandwidth (RBW) is 5.1 kHz, and the video bandwidth (VBW) is 15 kHz. The sweep time is 1.00 s. The reference level is 30.00 dBm, and the reference offset is 7.4 dB. The status bar at the bottom indicates 'Meas Uncal'.



5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

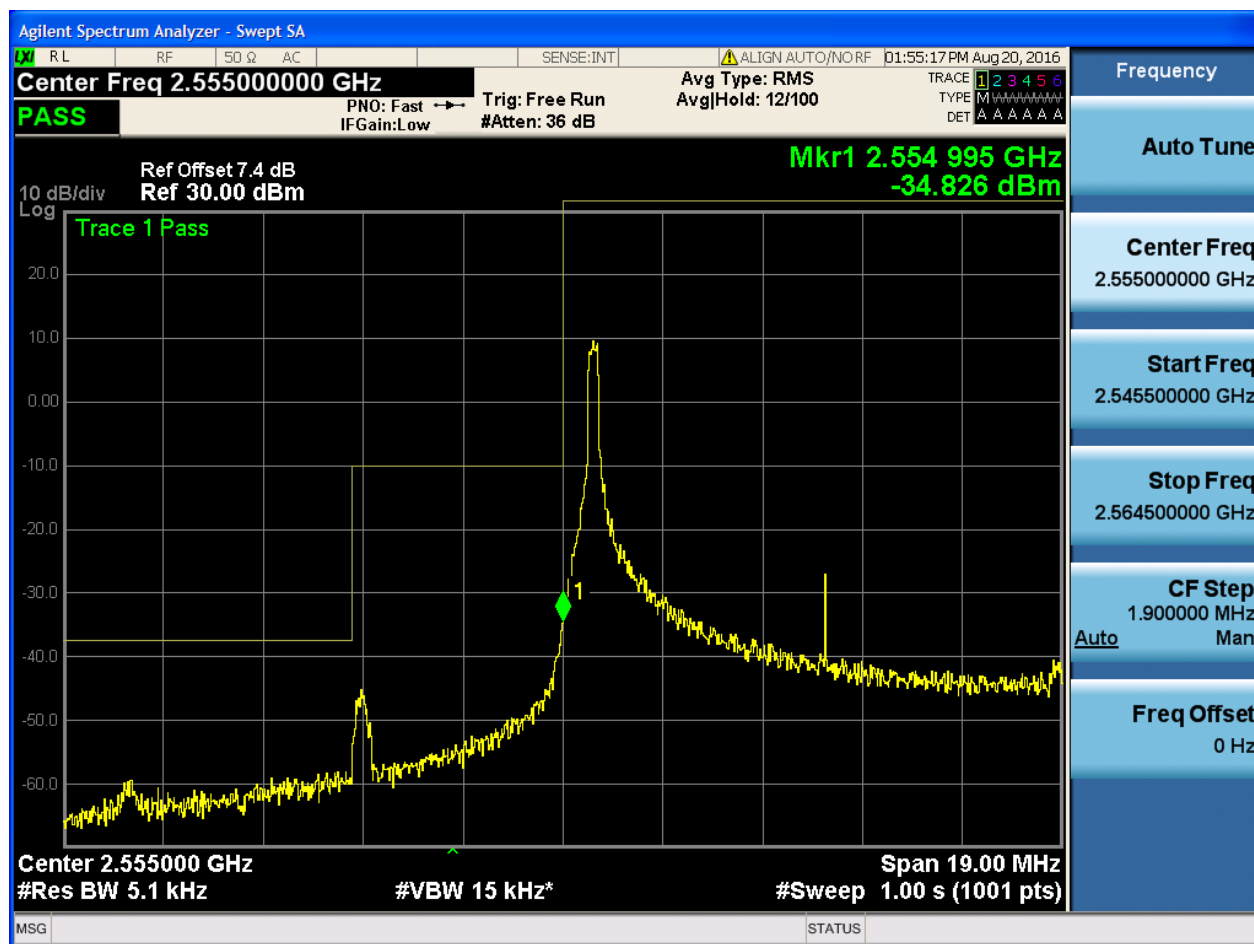




5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



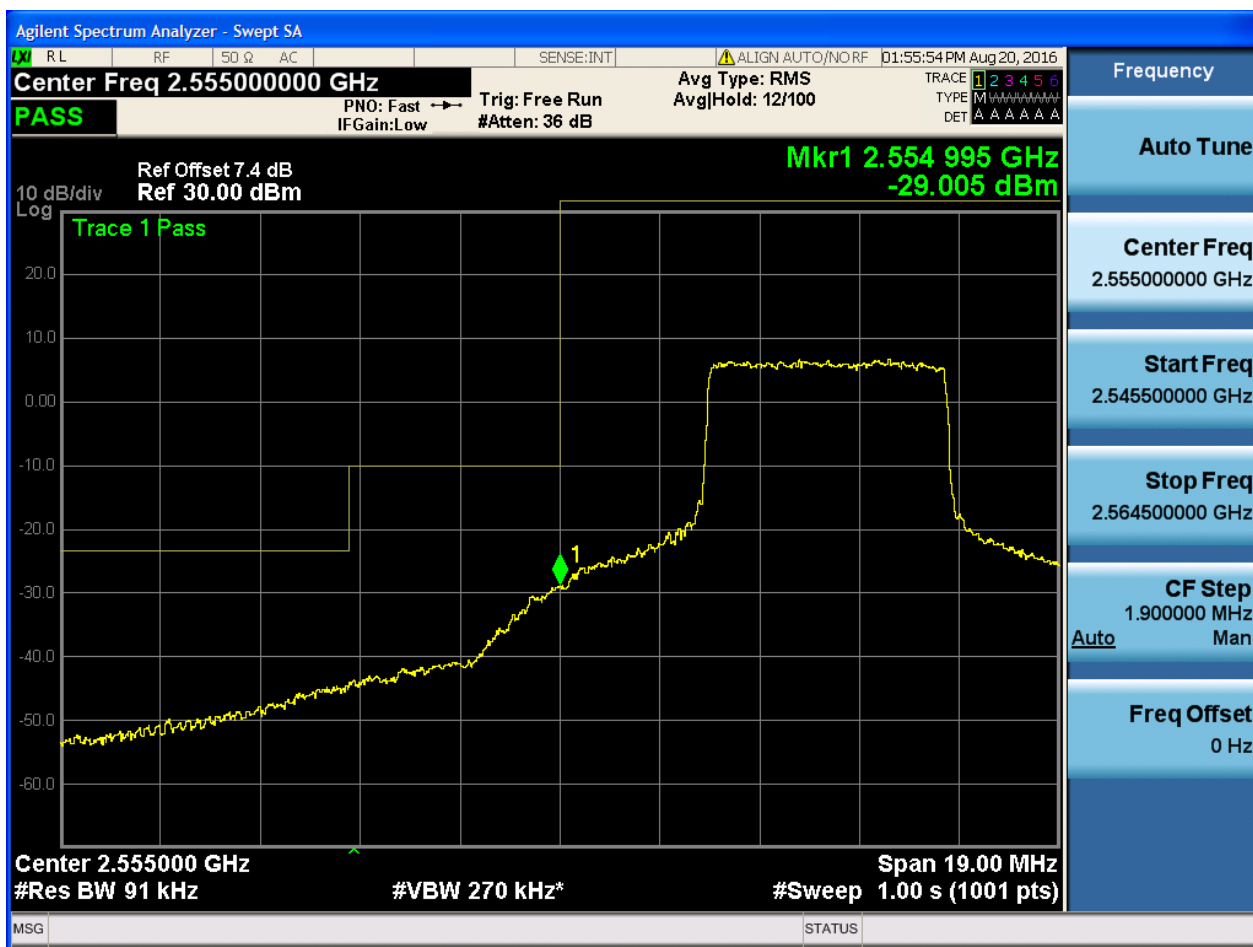


5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13





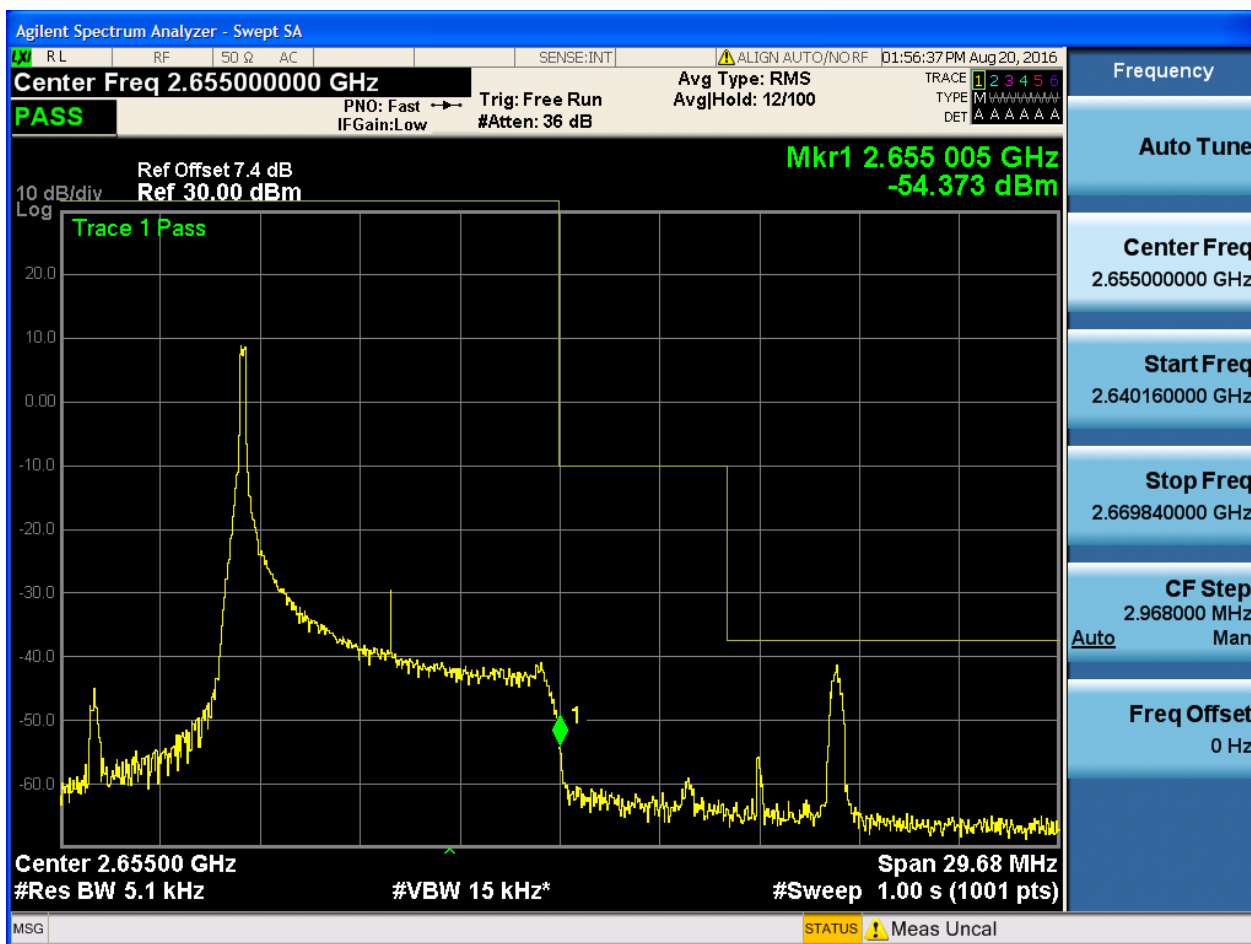
5.1.1.2.2.1.4 Test RB = RB50#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



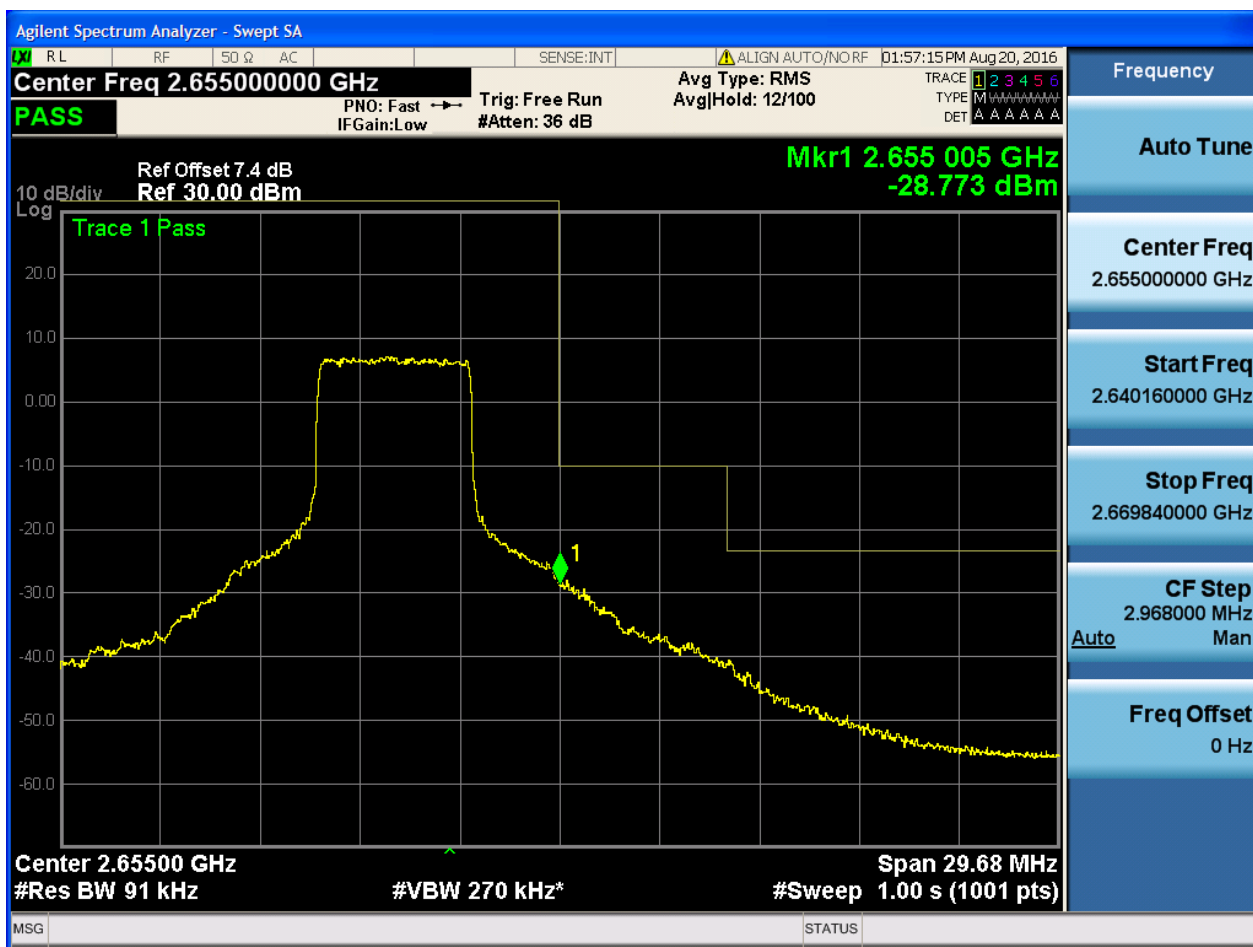


5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

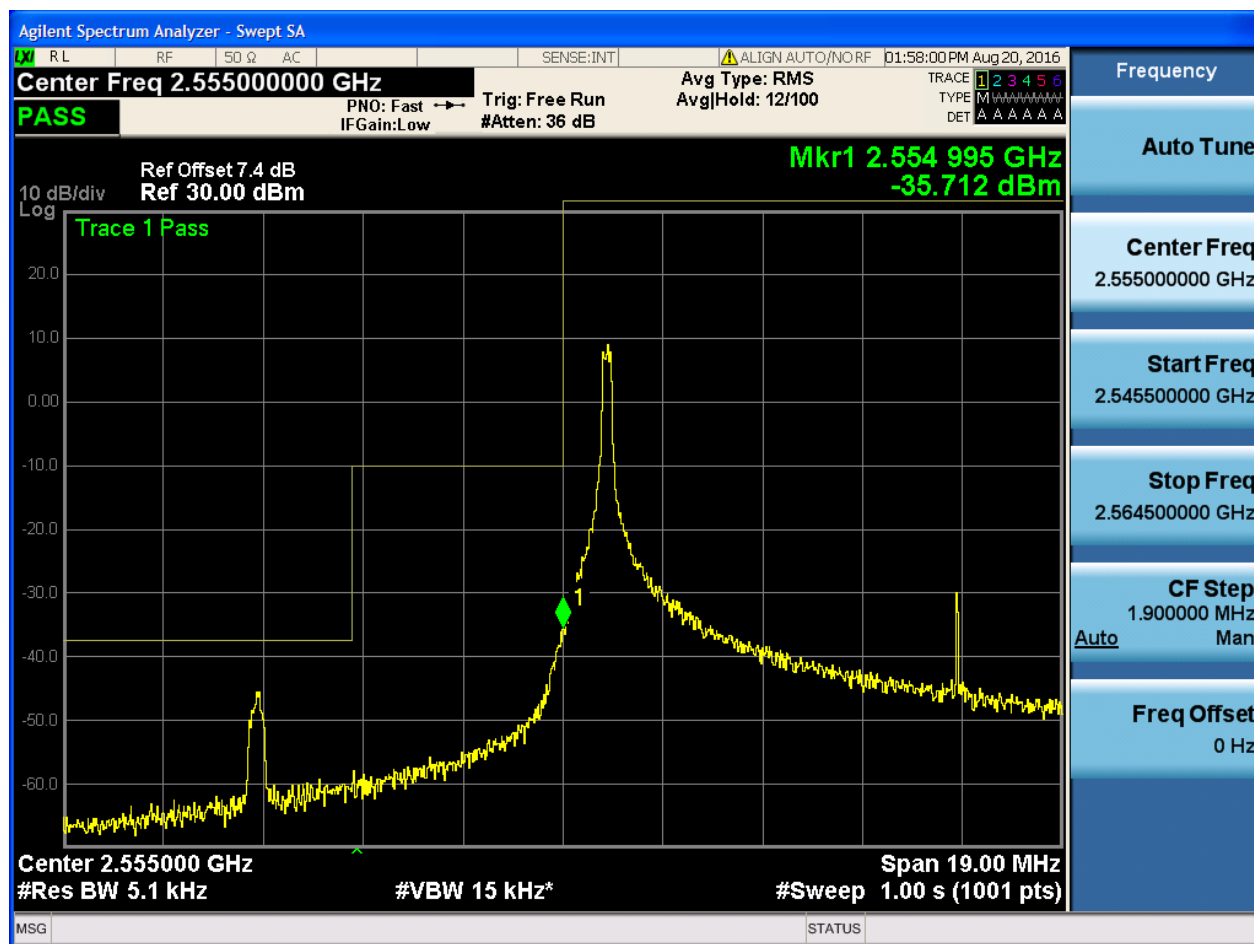




5.1.1.2.3 Test Bandwidth = 15

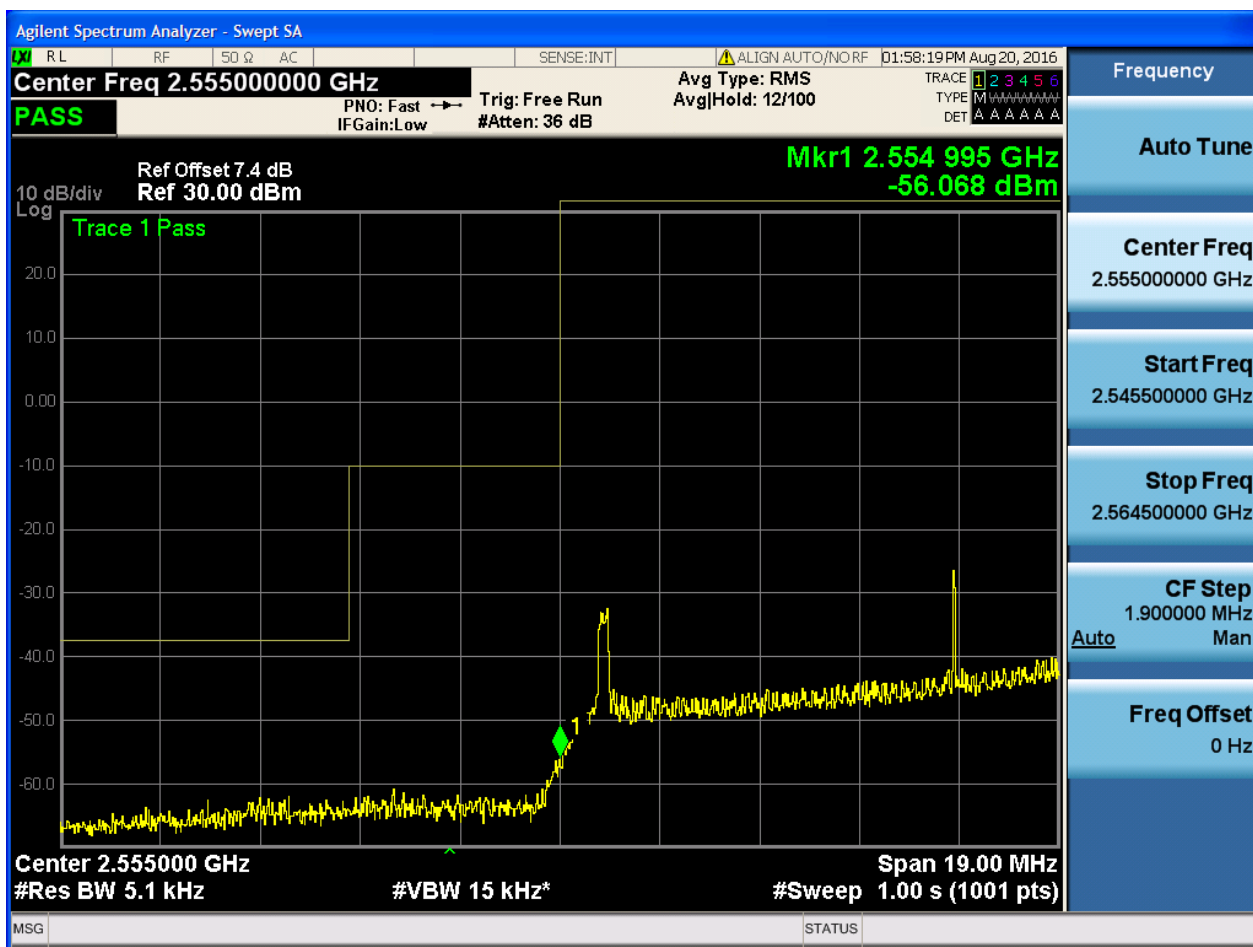
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18





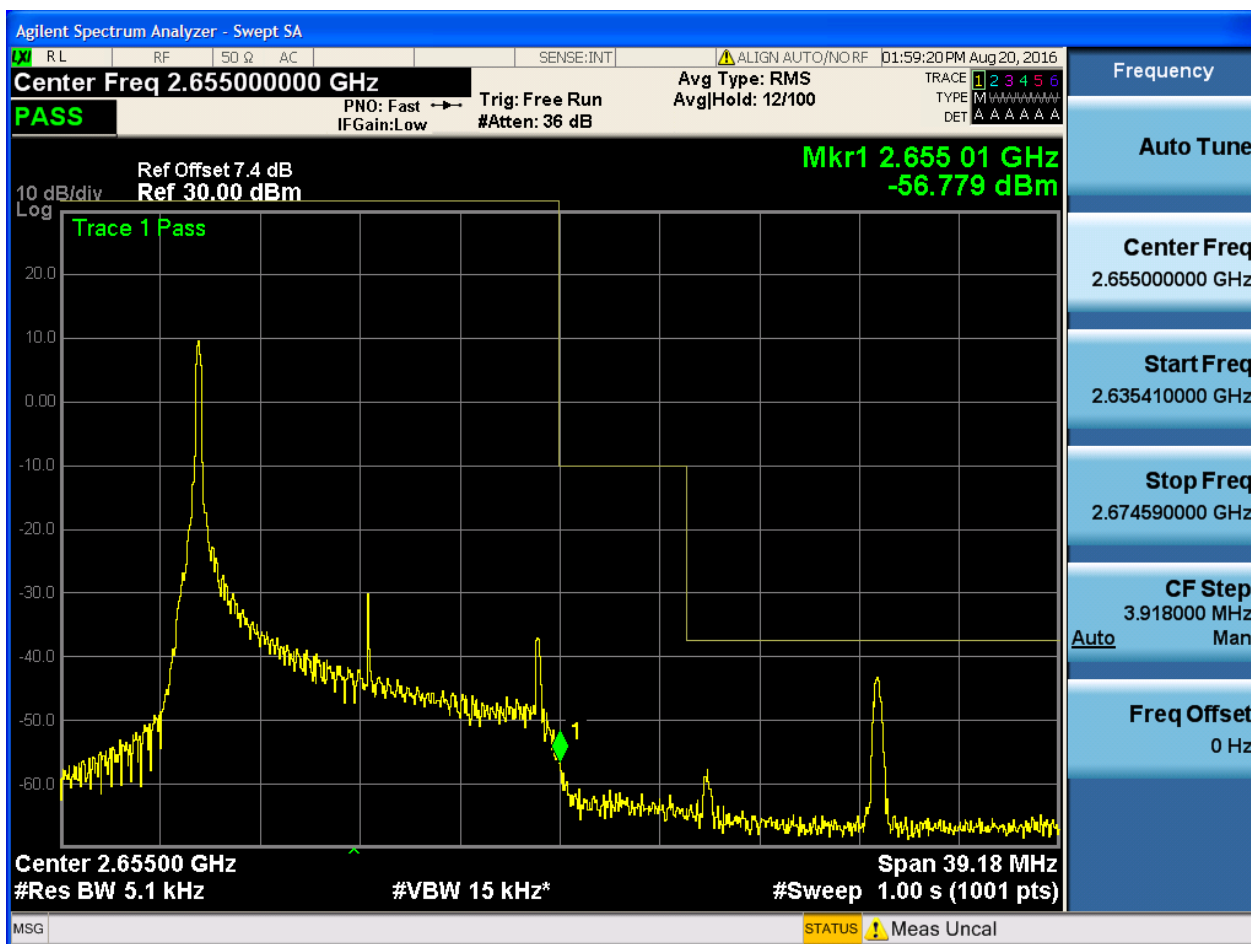
5.1.1.2.3.1.4 Test RB = RB75#0





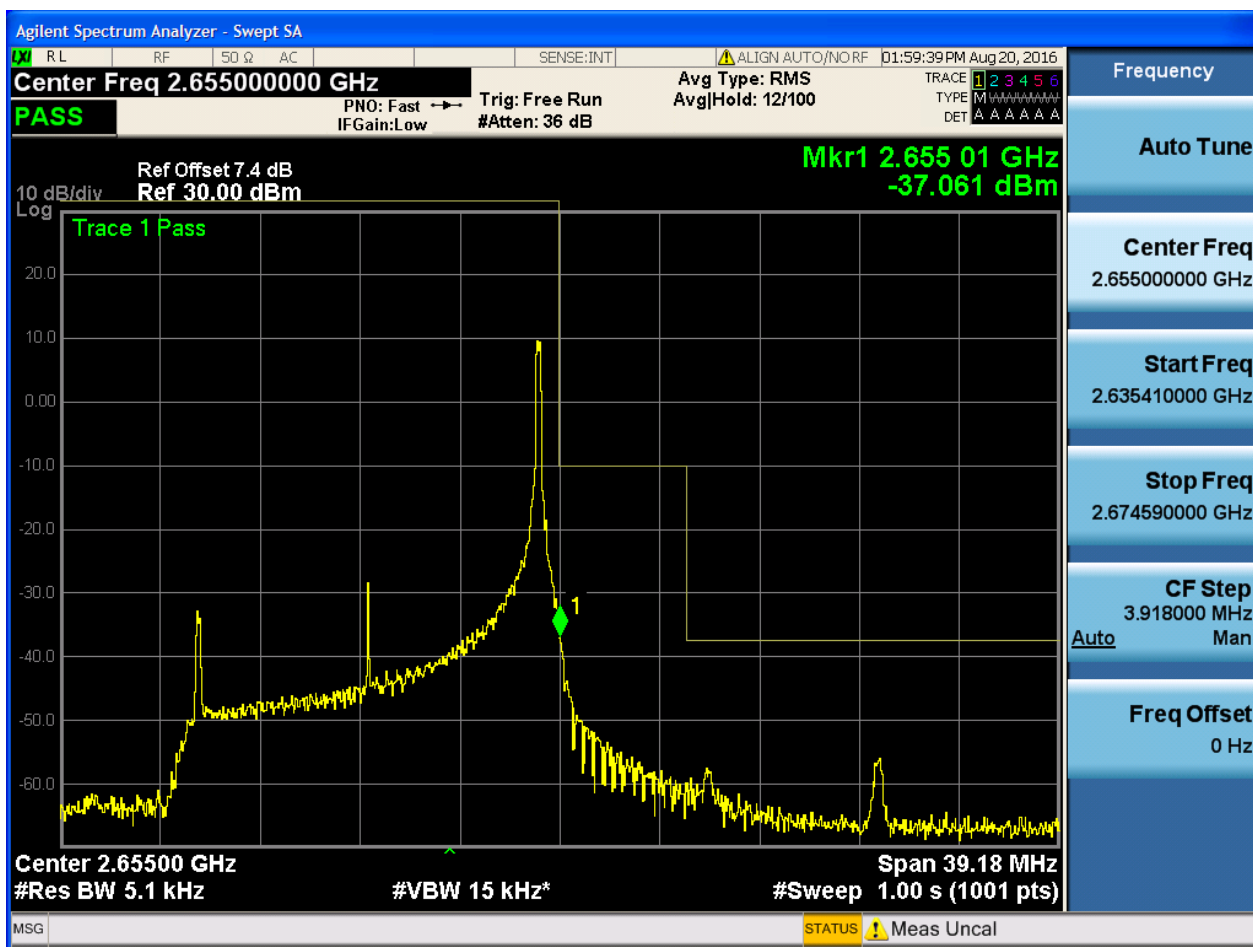
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

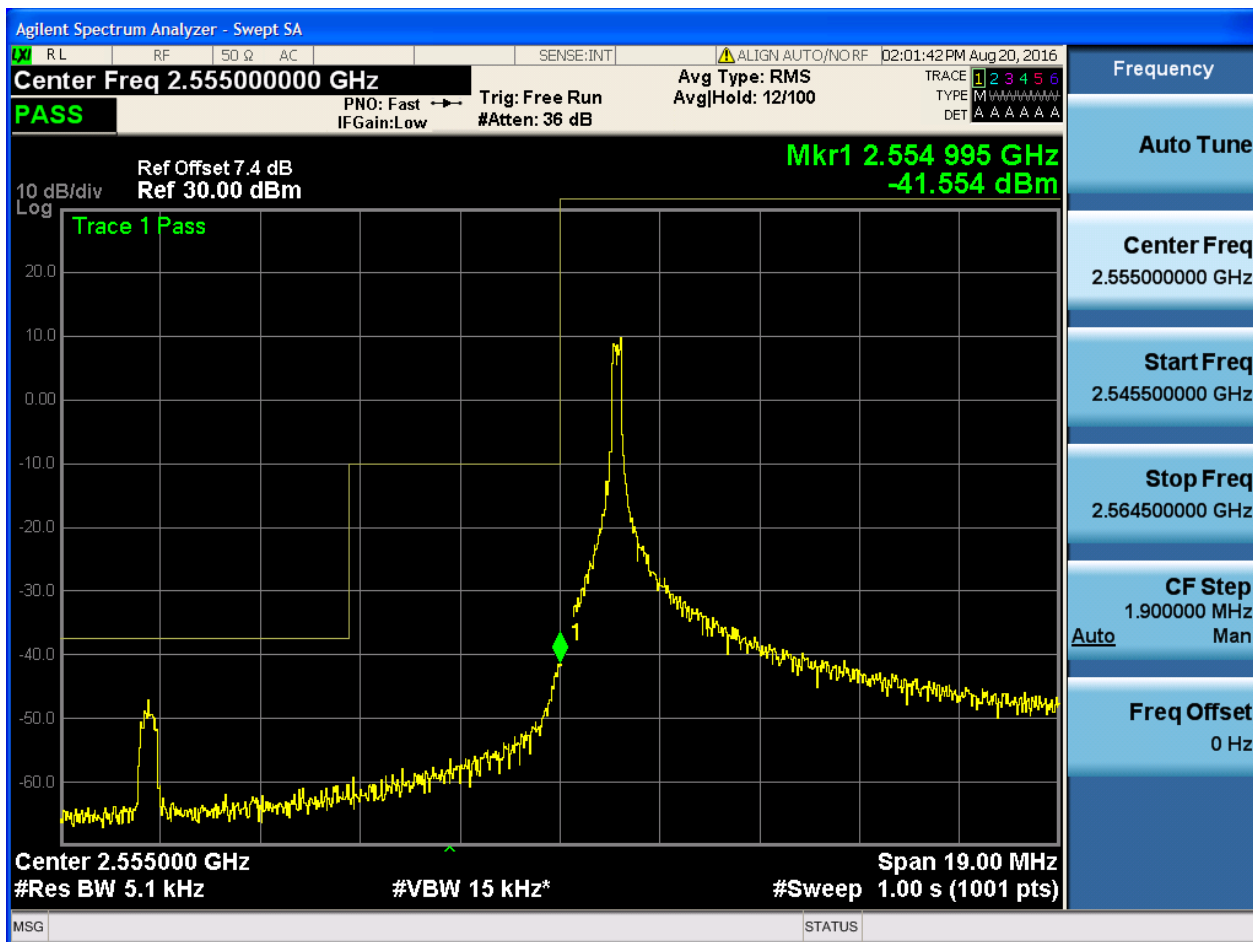




5.1.1.2.4 Test Bandwidth = 20

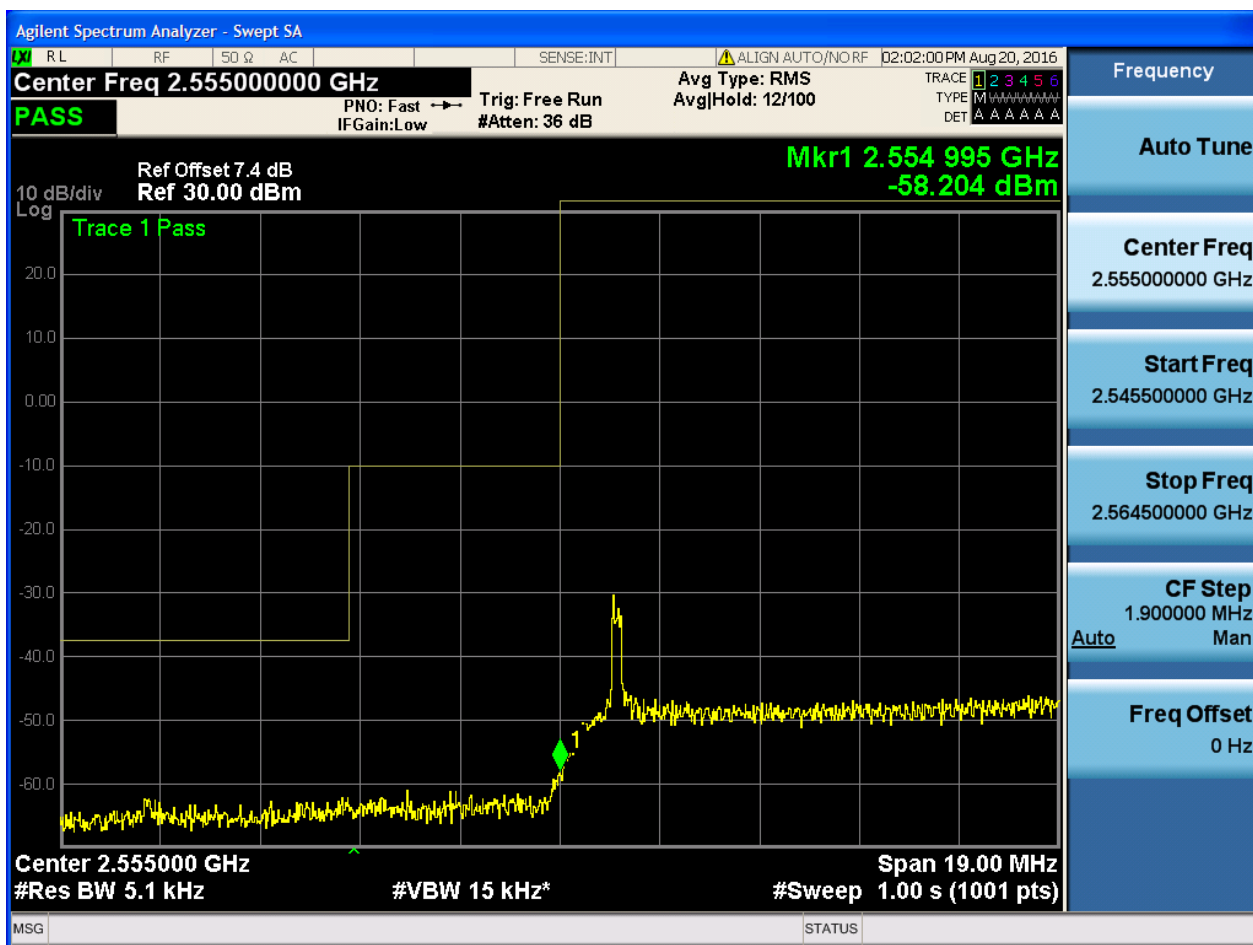
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99





5.1.1.2.4.1.3 Test RB = RB50#25





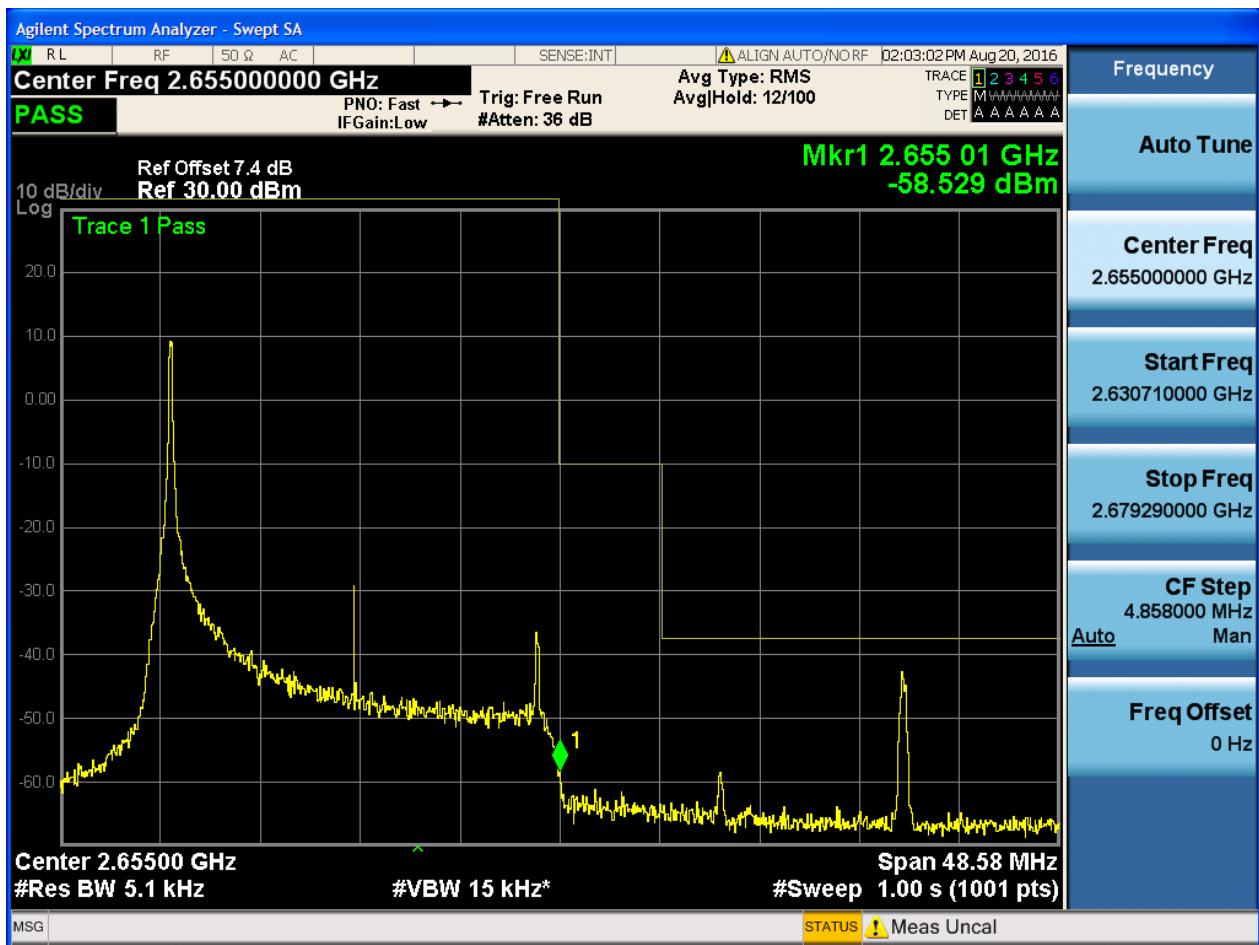
5.1.1.2.4.1.4 Test RB = RB100#0



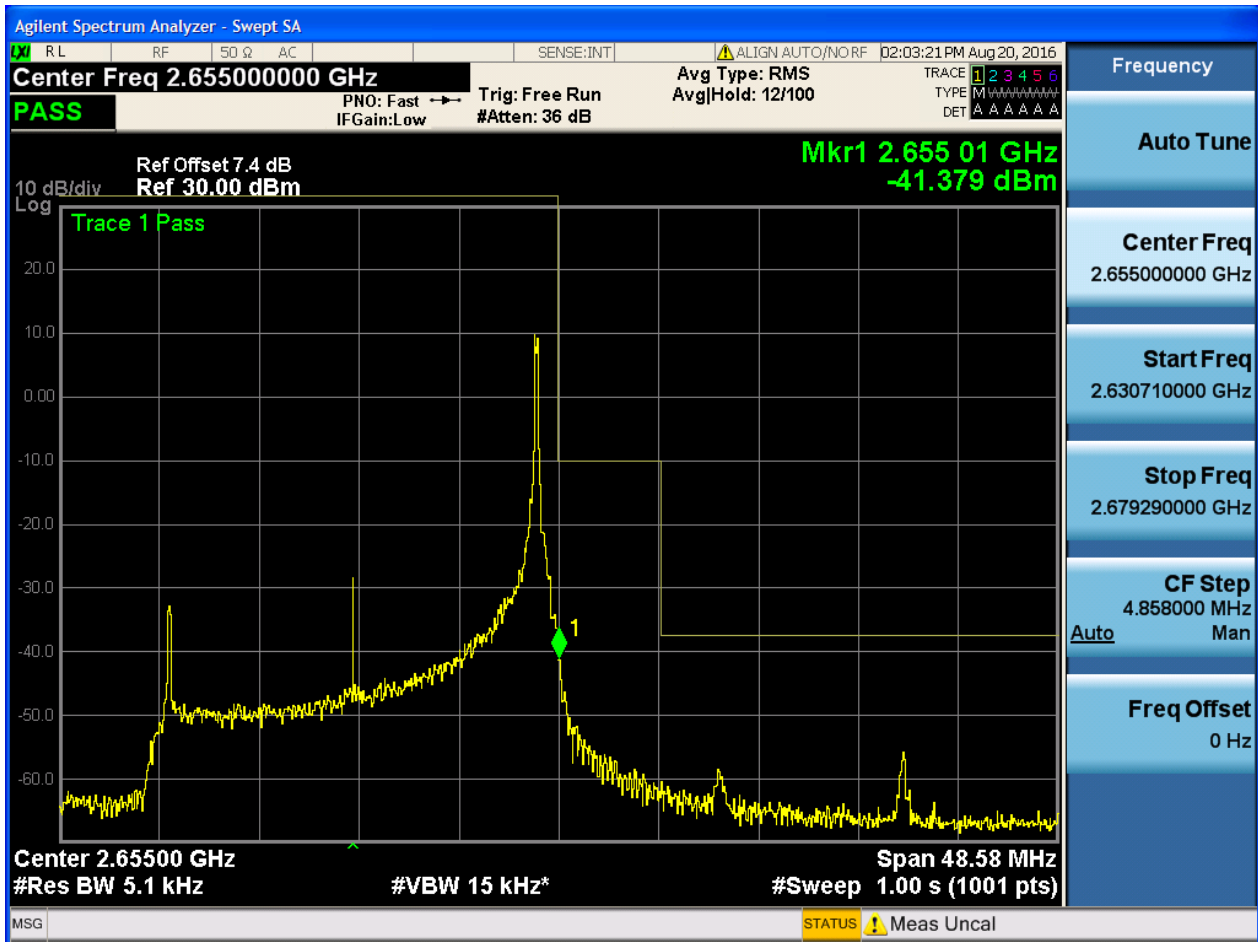


5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



5.1.1.2.4.2.2 Test RB = RB1#99





5.1.1.2.4.2.3 Test RB = RB50#25

