



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/TM 1	5	LCH	RB1#0	22.68	22.68	33	PASS
				RB1#13	23.14	23.14	33	PASS
				RB1#24	22.55	22.55	33	PASS
				RB12#0	22.06	22.06	33	PASS
				RB12#6	22.18	22.18	33	PASS
				RB12#13	21.98	21.98	33	PASS
				RB25#0	21.96	21.96	33	PASS
			MCH	RB1#0	23.09	23.09	33	PASS
				RB1#13	23.27	23.27	33	PASS
				RB1#24	22.7	22.7	33	PASS
				RB12#0	22.27	22.27	33	PASS
				RB12#6	22.25	22.25	33	PASS
				RB12#13	22.04	22.04	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.13	22.13	33	PASS
			HCH	RB1#0	22.89	22.89	33	PASS
				RB1#13	23.11	23.11	33	PASS
				RB1#24	22.94	22.94	33	PASS
				RB12#0	22.16	22.16	33	PASS
				RB12#6	22.11	22.11	33	PASS
				RB12#13	21.91	21.91	33	PASS
				RB25#0	21.92	21.92	33	PASS
		10	LCH	RB1#0	22.87	22.87	33	PASS
				RB1#25	23.19	23.19	33	PASS
				RB1#49	22.61	22.61	33	PASS
				RB25#0	22.04	22.04	33	PASS
				RB25#13	22.12	22.12	33	PASS
				RB25#25	22.07	22.07	33	PASS
				RB50#0	22.27	22.27	33	PASS
			MCH	RB1#0	23.33	23.33	33	PASS
				RB1#25	23.35	23.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.96	22.96	33	PASS
				RB25#0	22.32	22.32	33	PASS
				RB25#13	22.3	22.3	33	PASS
				RB25#25	22.17	22.17	33	PASS
				RB50#0	22.24	22.24	33	PASS
			HCH	RB1#0	23.39	23.39	33	PASS
				RB1#25	23.07	23.07	33	PASS
				RB1#49	23.1	23.1	33	PASS
				RB25#0	22.07	22.07	33	PASS
				RB25#13	22.06	22.06	33	PASS
				RB25#25	21.92	21.92	33	PASS
				RB50#0	21.93	21.93	33	PASS
		15	LCH	RB1#0	23.12	23.12	33	PASS
				RB1#38	23.44	23.44	33	PASS
				RB1#74	22.64	22.64	33	PASS
				RB36#0	22.41	22.41	33	PASS
				RB36#18	22.33	22.33	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	22.09	22.09	33	PASS
				RB75#0	22.38	22.38	33	PASS
			MCH	RB1#0	23.37	23.37	33	PASS
				RB1#38	23.46	23.46	33	PASS
				RB1#74	23.04	23.04	33	PASS
				RB36#0	22.32	22.32	33	PASS
				RB36#18	22.34	22.34	33	PASS
				RB36#39	22.22	22.22	33	PASS
				RB75#0	22.22	22.22	33	PASS
			HCH	RB1#0	23.75	23.75	33	PASS
				RB1#38	23.16	23.16	33	PASS
				RB1#74	22.77	22.77	33	PASS
				RB36#0	22.11	22.11	33	PASS
				RB36#18	22.2	22.2	33	PASS
				RB36#39	21.87	21.87	33	PASS
				RB75#0	21.98	21.98	33	PASS
		20	LCH	RB1#0	23.39	23.39	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	23.23	23.23	33	PASS
				RB1#99	22.82	22.82	33	PASS
				RB50#0	22.4	22.4	33	PASS
				RB50#25	22.19	22.19	33	PASS
				RB50#50	22.1	22.1	33	PASS
				RB100#0	22.35	22.35	33	PASS
			MCH	RB1#0	23.42	23.42	33	PASS
				RB1#50	23.33	23.33	33	PASS
				RB1#99	23.15	23.15	33	PASS
				RB50#0	22.33	22.33	33	PASS
				RB50#25	22.28	22.28	33	PASS
				RB50#50	22.17	22.17	33	PASS
				RB100#0	22.24	22.24	33	PASS
			HCH	RB1#0	23.36	23.36	33	PASS
				RB1#50	23.26	23.26	33	PASS
				RB1#99	22.91	22.91	33	PASS
				RB50#0	22.4	22.4	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	22.33	22.33	33	PASS
				RB50#50	21.95	21.95	33	PASS
				RB100#0	22.24	22.24	33	PASS
	LTE/TM 2	5	LCH	RB1#0	22.57	22.57	33	PASS
				RB1#13	23	23	33	PASS
				RB1#24	22.53	22.53	33	PASS
				RB12#0	21.13	21.13	33	PASS
				RB12#6	21.21	21.21	33	PASS
				RB12#13	21.02	21.02	33	PASS
				RB25#0	21.05	21.05	33	PASS
			MCH	RB1#0	22.37	22.37	33	PASS
				RB1#13	22.51	22.51	33	PASS
				RB1#24	22.02	22.02	33	PASS
				RB12#0	21.19	21.19	33	PASS
				RB12#6	21.19	21.19	33	PASS
				RB12#13	20.98	20.98	33	PASS
				RB25#0	21.03	21.03	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.2	22.2	33	PASS
				RB1#13	22.39	22.39	33	PASS
				RB1#24	22.01	22.01	33	PASS
				RB12#0	21.02	21.02	33	PASS
				RB12#6	21.03	21.03	33	PASS
				RB12#13	20.85	20.85	33	PASS
				RB25#0	20.93	20.93	33	PASS
		10	LCH	RB1#0	22.23	22.23	33	PASS
				RB1#25	22.81	22.81	33	PASS
				RB1#49	22.34	22.34	33	PASS
				RB25#0	21.33	21.33	33	PASS
				RB25#13	21.43	21.43	33	PASS
				RB25#25	21.39	21.39	33	PASS
				RB50#0	21.48	21.48	33	PASS
			MCH	RB1#0	22.13	22.13	33	PASS
				RB1#25	22.41	22.41	33	PASS
				RB1#49	22.09	22.09	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.11	21.11	33	PASS
				RB25#13	21.09	21.09	33	PASS
				RB25#25	20.97	20.97	33	PASS
				RB50#0	21.09	21.09	33	PASS
			HCH	RB1#0	22.75	22.75	33	PASS
				RB1#25	22.7	22.7	33	PASS
				RB1#49	22.46	22.46	33	PASS
				RB25#0	20.91	20.91	33	PASS
				RB25#13	20.89	20.89	33	PASS
				RB25#25	20.83	20.83	33	PASS
				RB50#0	20.81	20.81	33	PASS
		15	LCH	RB1#0	22.02	22.02	33	PASS
				RB1#38	22.69	22.69	33	PASS
				RB1#74	21.84	21.84	33	PASS
				RB36#0	21.31	21.31	33	PASS
				RB36#18	21.25	21.25	33	PASS
				RB36#39	20.98	20.98	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.26	21.26	33	PASS
			MCH	RB1#0	22.03	22.03	33	PASS
				RB1#38	22.32	22.32	33	PASS
				RB1#74	21.84	21.84	33	PASS
				RB36#0	21.26	21.26	33	PASS
				RB36#18	21.25	21.25	33	PASS
				RB36#39	21.14	21.14	33	PASS
				RB75#0	21.08	21.08	33	PASS
			HCH	RB1#0	22.49	22.49	33	PASS
				RB1#38	22.5	22.5	33	PASS
				RB1#74	21.97	21.97	33	PASS
				RB36#0	21.01	21.01	33	PASS
				RB36#18	21.02	21.02	33	PASS
				RB36#39	20.76	20.76	33	PASS
				RB75#0	20.87	20.87	33	PASS
		20	LCH	RB1#0	22.12	22.12	33	PASS
				RB1#50	22.3	22.3	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.92	21.92	33	PASS
				RB50#0	20.99	20.99	33	PASS
				RB50#25	20.76	20.76	33	PASS
				RB50#50	20.69	20.69	33	PASS
				RB100#0	21.01	21.01	33	PASS
			MCH	RB1#0	22.2	22.2	33	PASS
				RB1#50	22.43	22.43	33	PASS
				RB1#99	22.23	22.23	33	PASS
				RB50#0	21.25	21.25	33	PASS
				RB50#25	21.15	21.15	33	PASS
				RB50#50	21.05	21.05	33	PASS
				RB100#0	21.08	21.08	33	PASS
			HCH	RB1#0	22.35	22.35	33	PASS
				RB1#50	22.52	22.52	33	PASS
				RB1#99	22.11	22.11	33	PASS
				RB50#0	21.37	21.37	33	PASS
				RB50#25	21.22	21.22	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.91	20.91	33	PASS
				RB100#0	21.22	21.22	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:

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

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

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

$$\text{SET Sweep time} = \text{auto-couple.}$$

Detector:RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND41	LTE/TM1	5	LCH	RB1#0	4.25	13	PASS
				RB1#13	4.27	13	PASS
				RB1#24	4.4	13	PASS
				RB12#0	5.96	13	PASS
				RB12#6	5.8	13	PASS
				RB12#13	6.05	13	PASS
				RB25#0	5.63	13	PASS
			MCH	RB1#0	4.72	13	PASS
				RB1#13	4.36	13	PASS
				RB1#24	4.68	13	PASS
				RB12#0	5.63	13	PASS
				RB12#6	5.48	13	PASS
				RB12#13	5.68	13	PASS
				RB25#0	5.83	13	PASS
			HCH	RB1#0	4.82	13	PASS
				RB1#13	4.67	13	PASS
				RB1#24	4.71	13	PASS
				RB12#0	5.65	13	PASS
				RB12#6	5.67	13	PASS
				RB12#13	5.45	13	PASS
				RB25#0	5.75	13	PASS
		10	LCH	RB1#0	5.29	13	PASS
				RB1#25	4.88	13	PASS
				RB1#49	5.25	13	PASS
				RB25#0	6.09	13	PASS
				RB25#13	6.25	13	PASS
				RB25#25	5.96	13	PASS
				RB50#0	6.05	13	PASS
			MCH	RB1#0	4.58	13	PASS
				RB1#25	4.14	13	PASS
				RB1#49	4.23	13	PASS
				RB25#0	5.78	13	PASS
				RB25#13	5.69	13	PASS
				RB25#25	5.73	13	PASS
				RB50#0	6.1	13	PASS
			HCH	RB1#0	4.97	13	PASS
				RB1#25	4.85	13	PASS
				RB1#49	4.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.96	13	PASS
				RB25#13	5.97	13	PASS
				RB25#25	5.71	13	PASS
				RB50#0	6.16	13	PASS
		15	LCH	RB1#0	5.3	13	PASS
				RB1#38	4.72	13	PASS
				RB1#74	5.21	13	PASS
				RB36#0	5.96	13	PASS
				RB36#18	5.94	13	PASS
				RB36#39	6.02	13	PASS
				RB75#0	6.15	13	PASS
			MCH	RB1#0	5.26	13	PASS
				RB1#38	4.38	13	PASS
				RB1#74	4.29	13	PASS
				RB36#0	6.02	13	PASS
				RB36#18	5.82	13	PASS
				RB36#39	5.83	13	PASS
				RB75#0	6.24	13	PASS
			HCH	RB1#0	4.88	13	PASS
				RB1#38	4.91	13	PASS
				RB1#74	4.95	13	PASS
				RB36#0	6.14	13	PASS
				RB36#18	6.29	13	PASS
				RB36#39	6.22	13	PASS
				RB75#0	6.48	13	PASS
		20	LCH	RB1#0	5.04	13	PASS
				RB1#50	4.8	13	PASS
				RB1#99	5.01	13	PASS
				RB50#0	5.96	13	PASS
				RB50#25	5.98	13	PASS
				RB50#50	6.02	13	PASS
				RB100#0	6.53	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#50	4.19	13	PASS
				RB1#99	3.84	13	PASS
				RB50#0	6.02	13	PASS
				RB50#25	5.81	13	PASS
				RB50#50	5.77	13	PASS
				RB100#0	6.28	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	4.65	13	PASS
				RB1#50	4.75	13	PASS
				RB1#99	4.83	13	PASS
				RB50#0	6.06	13	PASS
				RB50#25	6.3	13	PASS
				RB50#50	6.09	13	PASS
				RB100#0	6.26	13	PASS
		5	LCH	RB1#0	5.89	13	PASS
				RB1#13	5.67	13	PASS
				RB1#24	5.99	13	PASS
				RB12#0	6.75	13	PASS
				RB12#6	6.36	13	PASS
				RB12#13	6.59	13	PASS
				RB25#0	6.49	13	PASS
			MCH	RB1#0	5.27	13	PASS
				RB1#13	4.9	13	PASS
				RB1#24	5.22	13	PASS
				RB12#0	6.37	13	PASS
				RB12#6	6.25	13	PASS
				RB12#13	6.42	13	PASS
				RB25#0	6.6	13	PASS
			HCH	RB1#0	5.61	13	PASS
				RB1#13	5.33	13	PASS
				RB1#24	5.41	13	PASS
				RB12#0	6.73	13	PASS
				RB12#6	6.73	13	PASS
				RB12#13	6.68	13	PASS
				RB25#0	7	13	PASS
		10	LCH	RB1#0	6.01	13	PASS
				RB1#25	5.52	13	PASS
				RB1#49	5.76	13	PASS
				RB25#0	6.74	13	PASS
				RB25#13	6.64	13	PASS
				RB25#25	6.77	13	PASS
				RB50#0	6.81	13	PASS
			MCH	RB1#0	5.75	13	PASS
				RB1#25	5.1	13	PASS
				RB1#49	5.17	13	PASS
				RB25#0	6.81	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	6.59	13	PASS
				RB25#25	6.61	13	PASS
				RB50#0	6.65	13	PASS
			HCH	RB1#0	5.55	13	PASS
				RB1#25	5.48	13	PASS
				RB1#49	5.45	13	PASS
				RB25#0	6.93	13	PASS
				RB25#13	7.11	13	PASS
				RB25#25	6.9	13	PASS
				RB50#0	7.19	13	PASS
		15	LCH	RB1#0	5.38	13	PASS
				RB1#38	5.03	13	PASS
				RB1#74	5.35	13	PASS
				RB36#0	6.44	13	PASS
				RB36#18	6.47	13	PASS
				RB36#39	6.64	13	PASS
				RB75#0	7.06	13	PASS
			MCH	RB1#0	6.12	13	PASS
				RB1#38	5.15	13	PASS
				RB1#74	5.04	13	PASS
				RB36#0	7.1	13	PASS
				RB36#18	6.74	13	PASS
				RB36#39	6.7	13	PASS
				RB75#0	7.18	13	PASS
			HCH	RB1#0	6.06	13	PASS
				RB1#38	5.95	13	PASS
				RB1#74	5.75	13	PASS
				RB36#0	6.62	13	PASS
				RB36#18	6.64	13	PASS
				RB36#39	6.64	13	PASS
				RB75#0	7.45	13	PASS
		20	LCH	RB1#0	5.79	13	PASS
				RB1#50	5.38	13	PASS
				RB1#99	5.9	13	PASS
				RB50#0	6.9	13	PASS
				RB50#25	7.06	13	PASS
				RB50#50	7.01	13	PASS
				RB100#0	7.11	13	PASS
			MCH	RB1#0	6.13	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	5.1	13	PASS
				RB1#99	4.75	13	PASS
				RB50#0	7.15	13	PASS
				RB50#25	6.55	13	PASS
				RB50#50	6.76	13	PASS
				RB100#0	7.02	13	PASS
			HCH	RB1#0	5.5	13	PASS
				RB1#50	5.73	13	PASS
				RB1#99	5.47	13	PASS
				RB50#0	6.46	13	PASS
				RB50#25	6.53	13	PASS
				RB50#50	6.49	13	PASS
				RB100#0	7.05	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

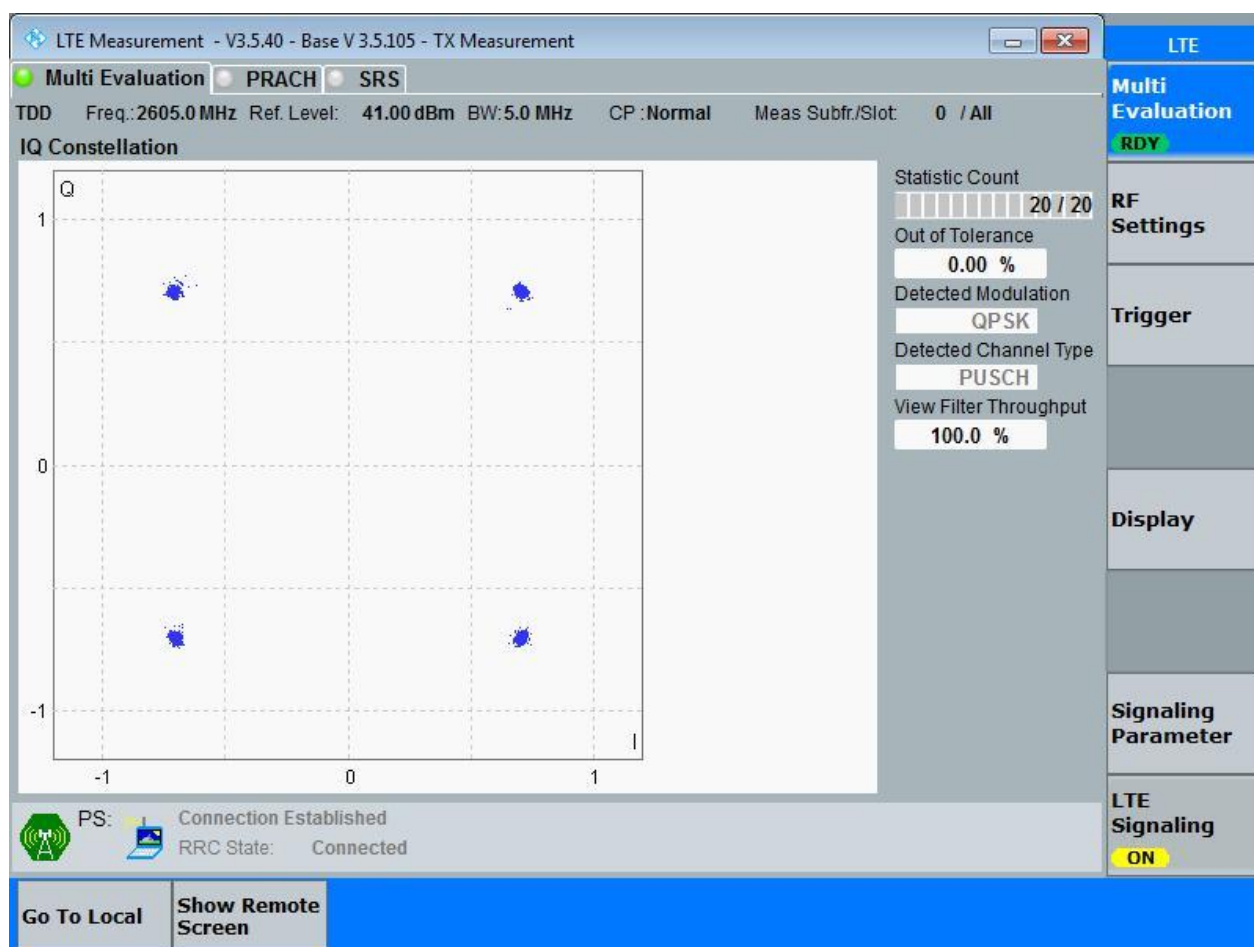
3.1.1 Test Band = BAND41

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

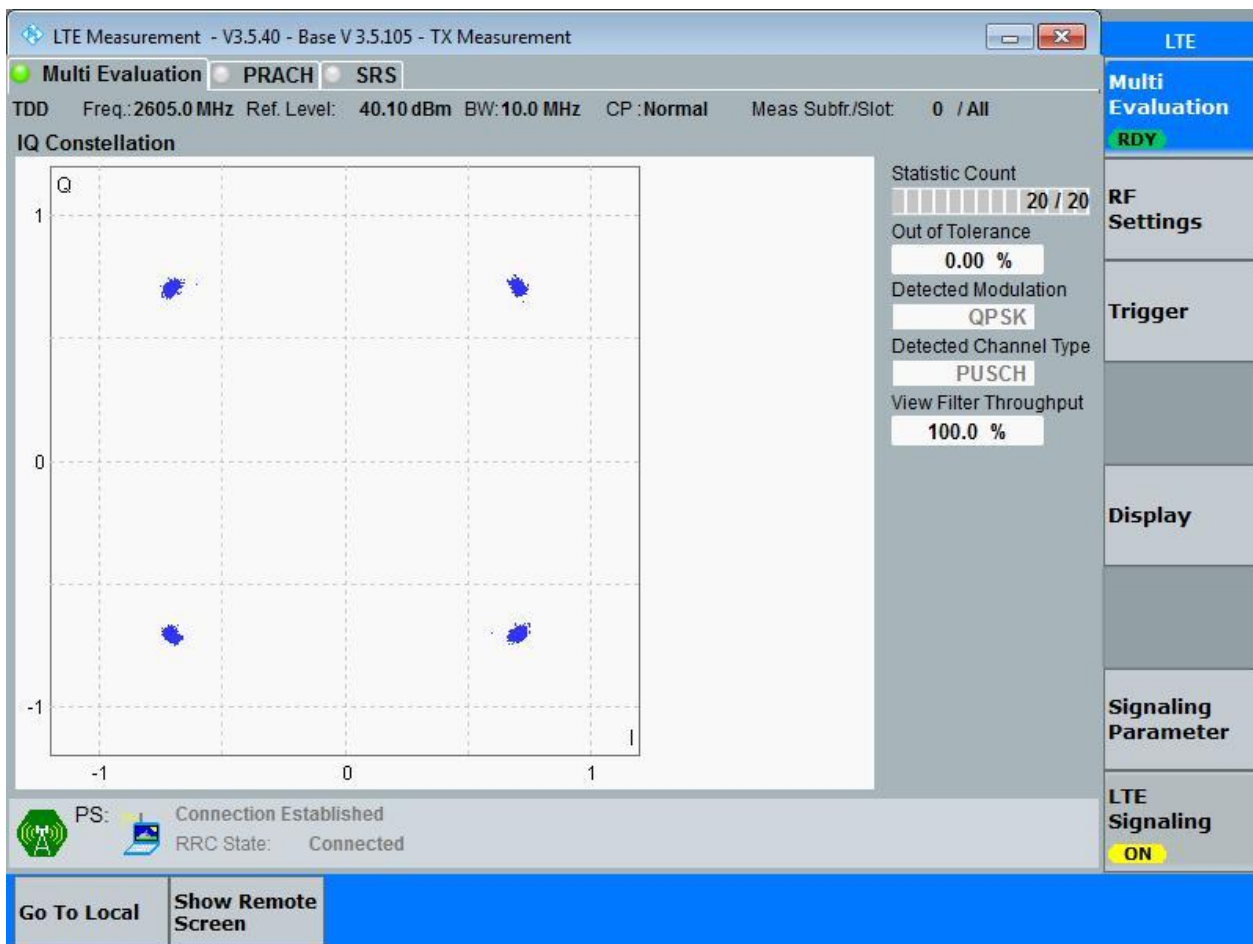
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

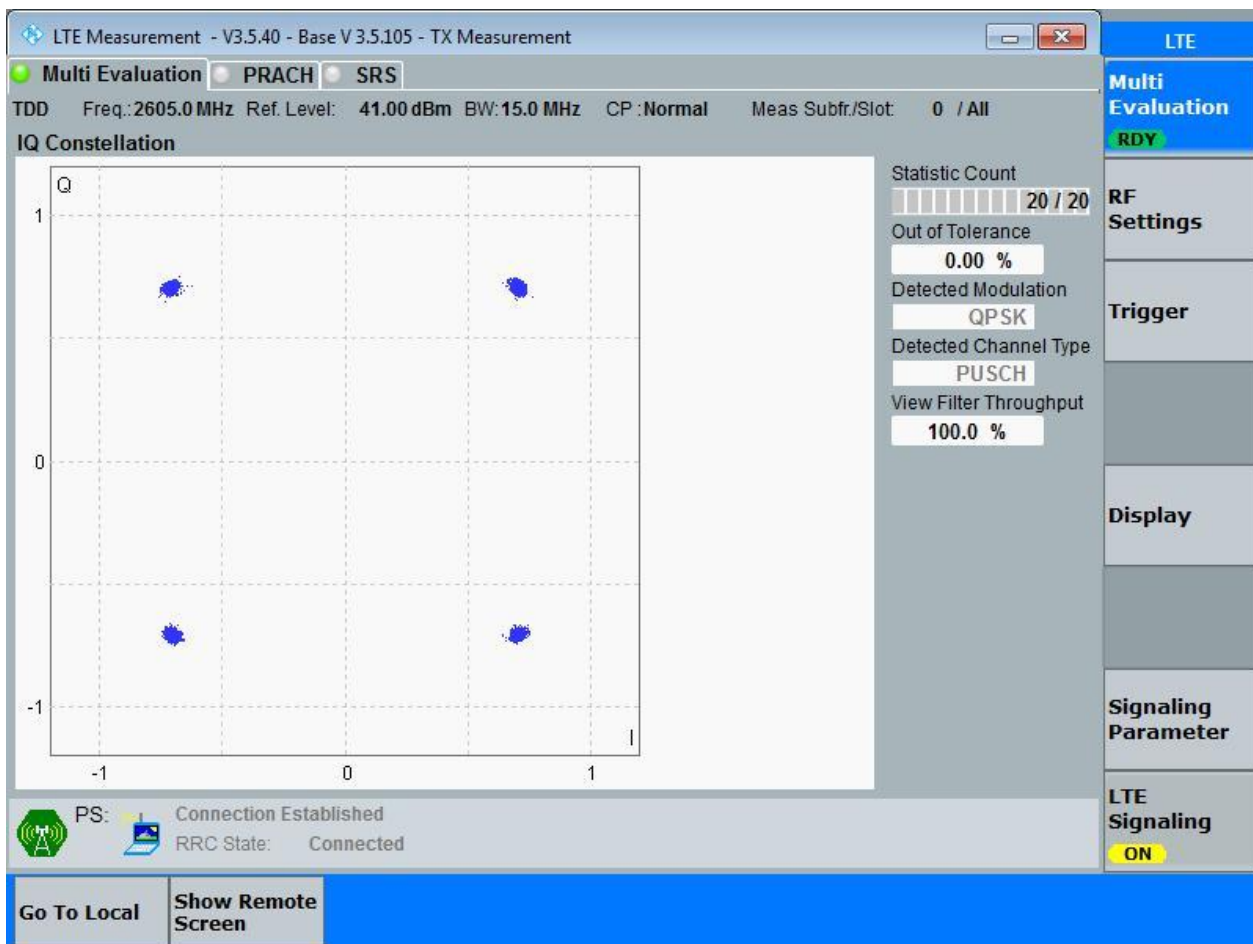
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

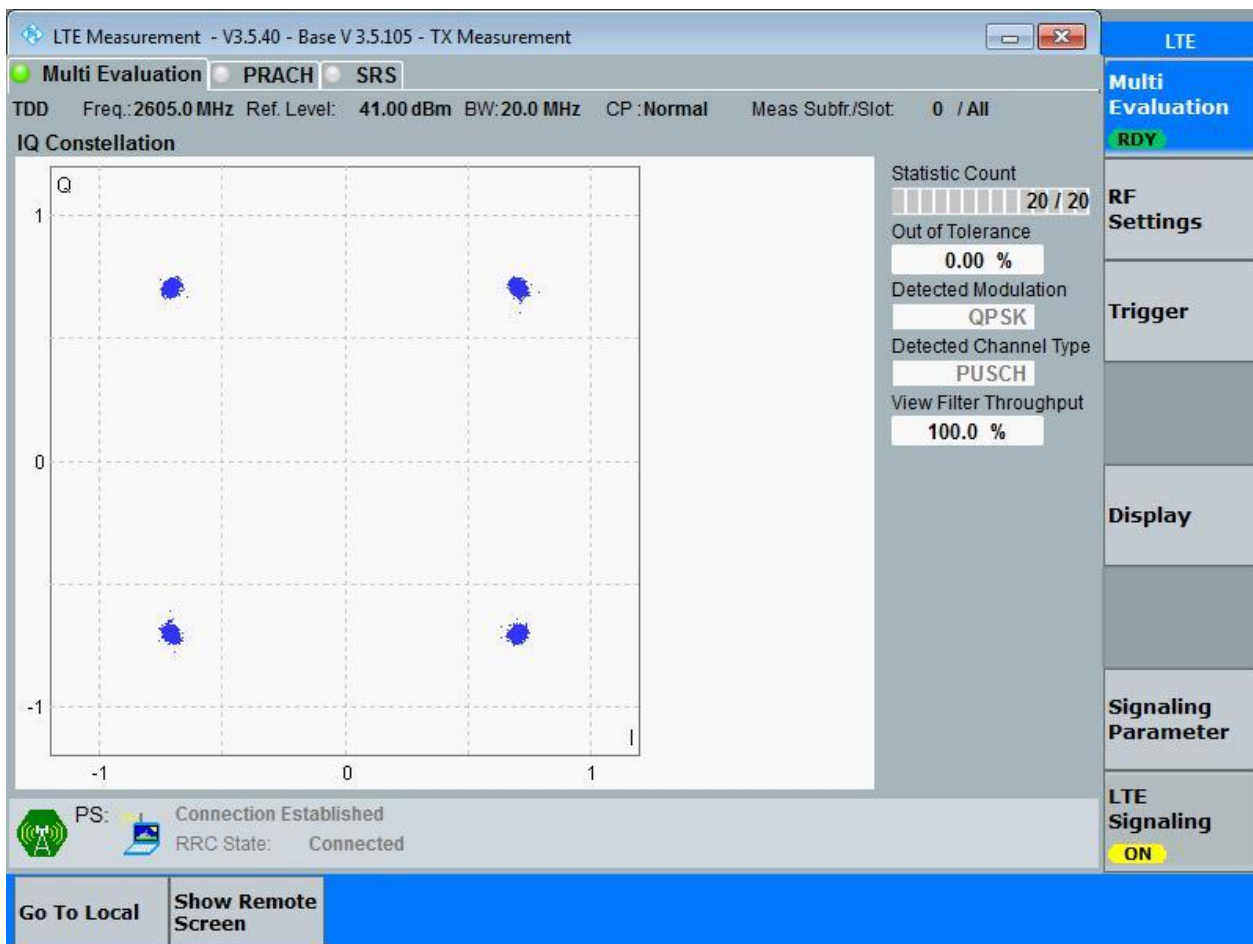
3.1.1.1.3.1.1 Test RB = RB75#0



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

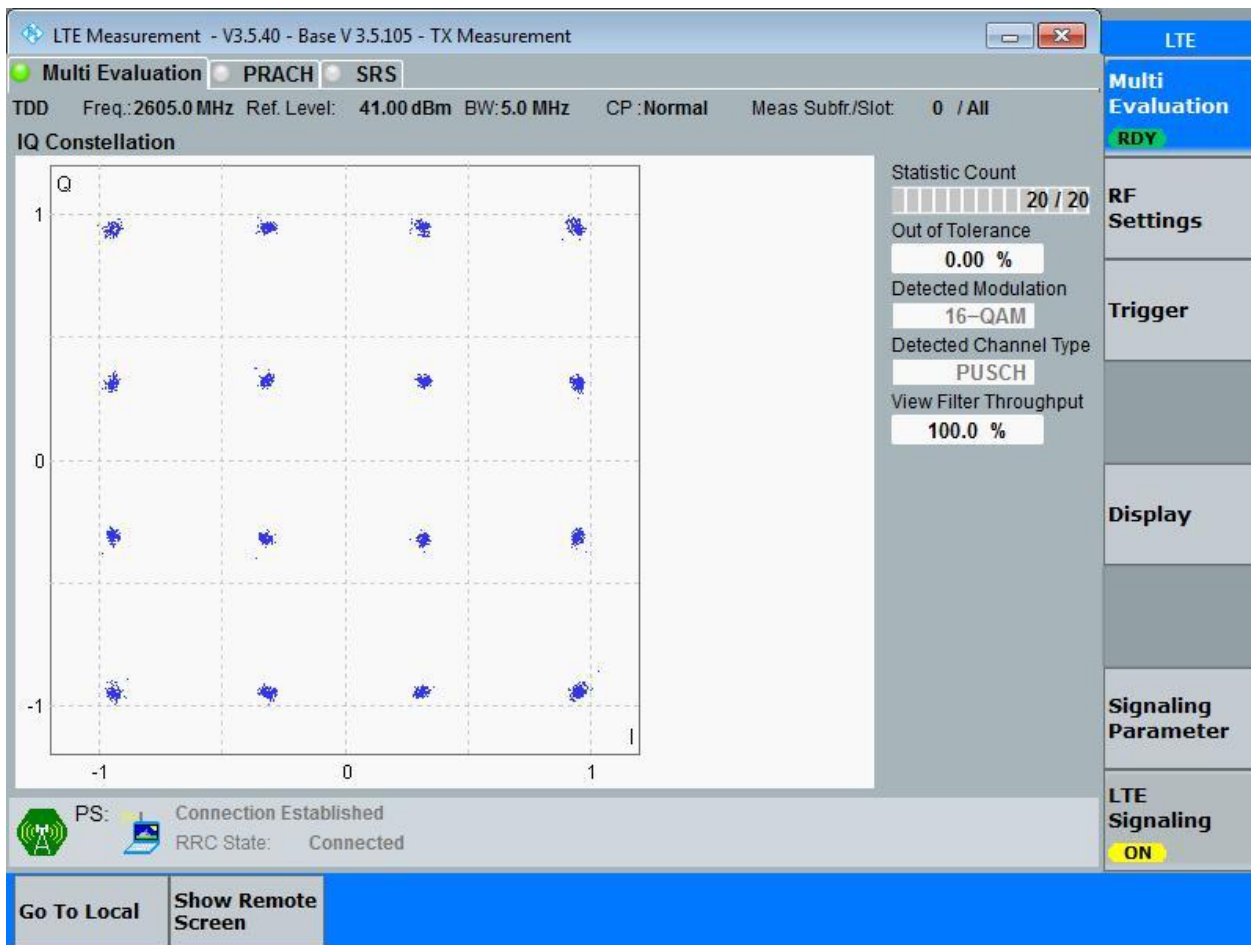


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

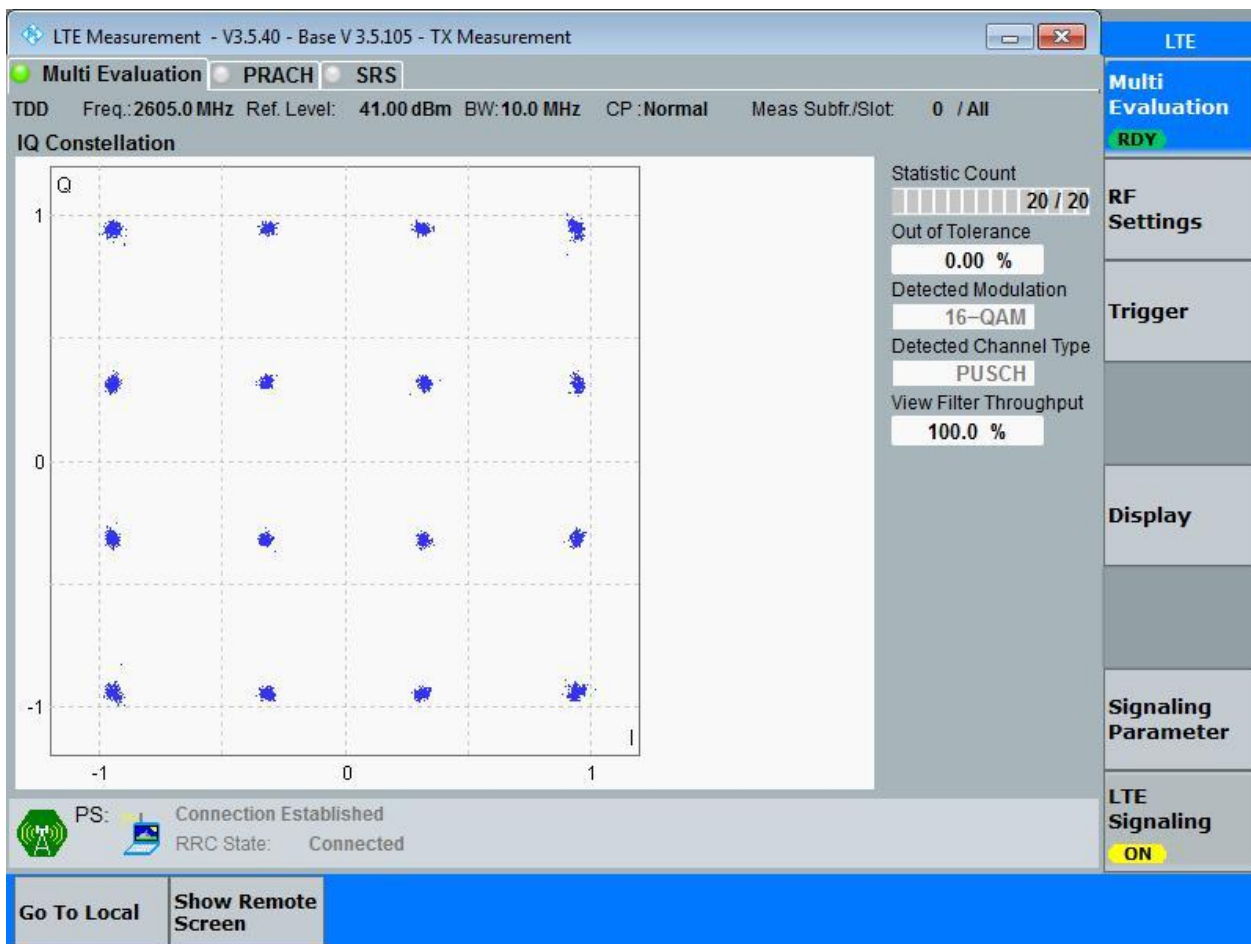
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

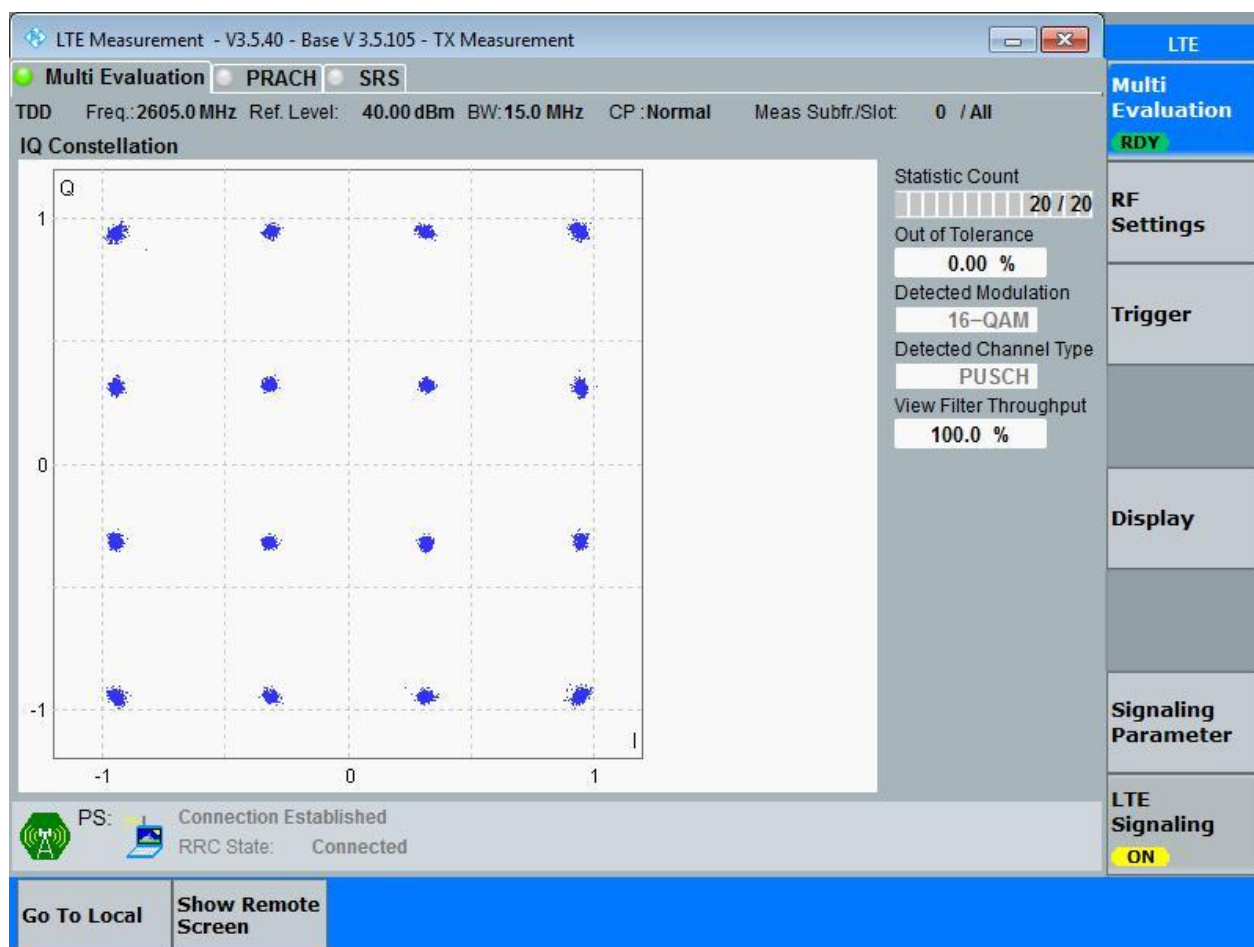
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

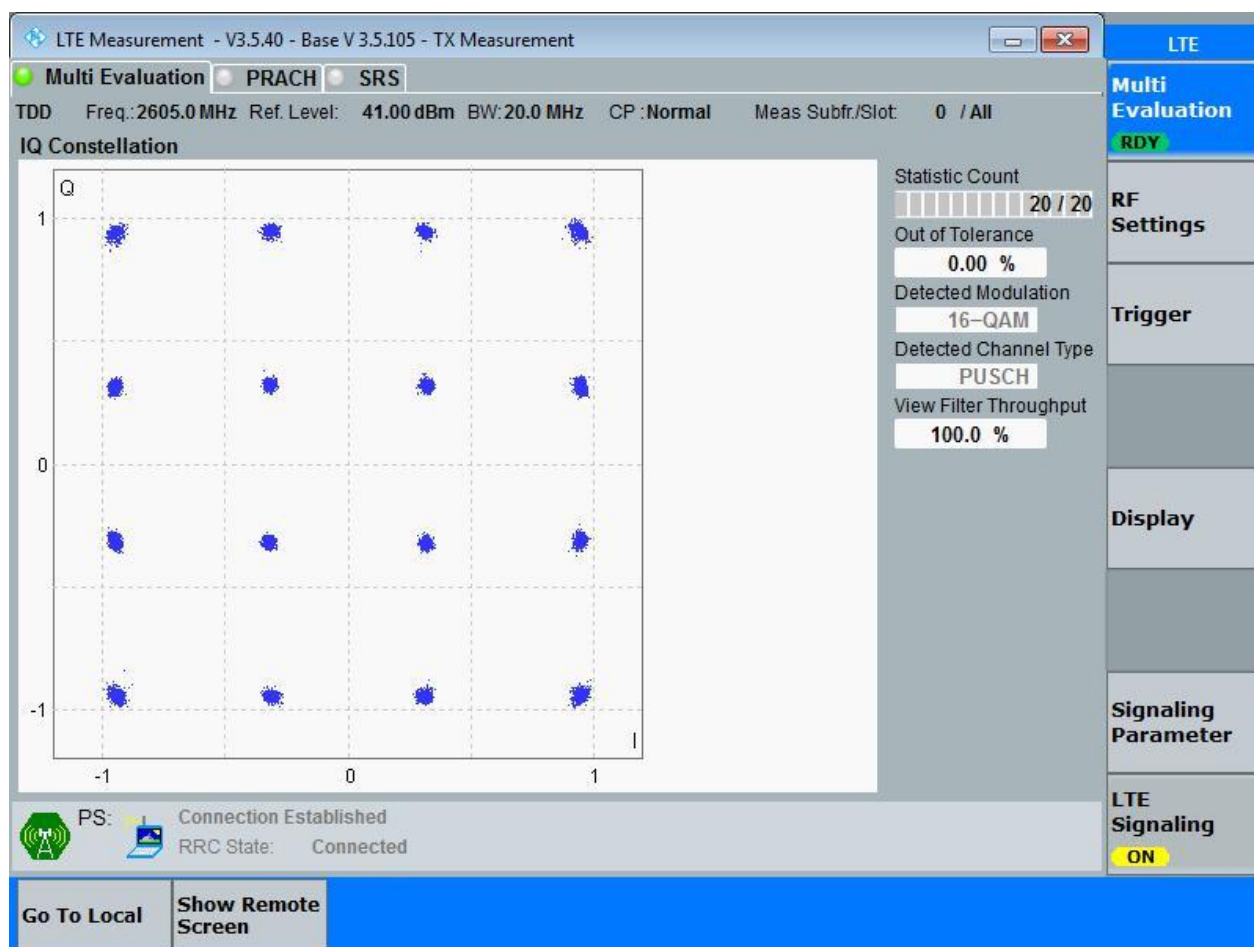
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.51	4.90	Pass
			MCH	RB25#0	4.47	4.93	Pass
			HCH	RB25#0	4.49	4.92	Pass
		10	LCH	RB50#0	9.00	9.71	Pass
			MCH	RB50#0	8.98	9.75	Pass
			HCH	RB50#0	8.99	9.75	Pass
		15	LCH	RB75#0	13.30	14.82	Pass
			MCH	RB75#0	13.42	14.85	Pass
			HCH	RB75#0	13.51	14.78	Pass
		20	LCH	RB100#0	17.81	19.51	Pass
			MCH	RB100#0	17.67	19.51	Pass
			HCH	RB100#0	17.85	19.45	Pass
	LTE/TM2	5	LCH	RB25#0	4.45	4.93	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.46	4.90	Pass
		10	LCH	RB50#0	8.97	9.74	Pass
			MCH	RB50#0	8.99	9.81	Pass
			HCH	RB50#0	9.00	9.78	Pass
		15	LCH	RB75#0	13.45	14.61	Pass
			MCH	RB75#0	13.44	14.72	Pass
			HCH	RB75#0	13.18	14.87	Pass
		20	LCH	RB100#0	17.98	19.36	Pass
			MCH	RB100#0	17.97	19.45	Pass
			HCH	RB100#0	17.90	19.93	Pass



Part II - Test Plots

4.1 For LTE

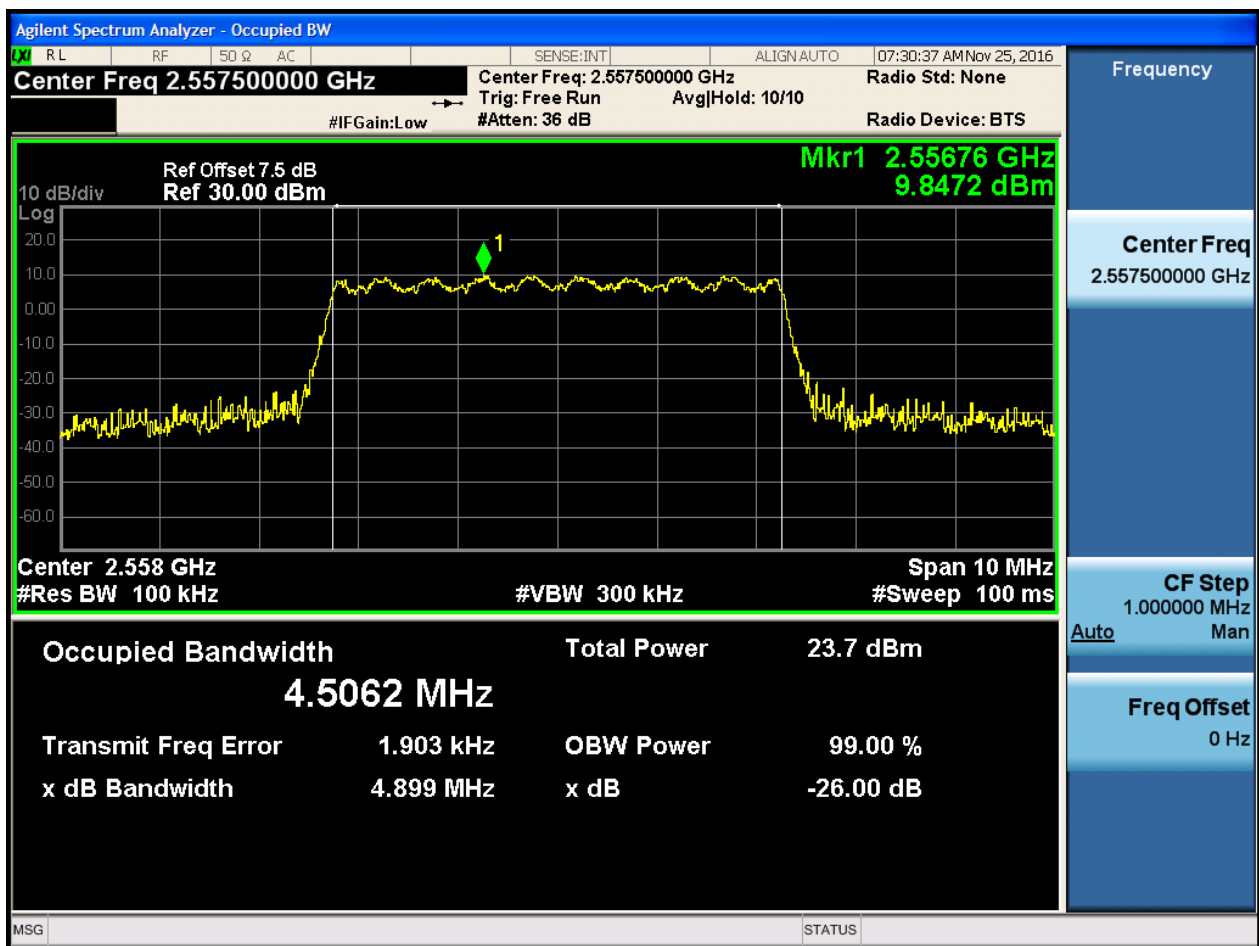
4.1.1 Test Band = BAND41

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

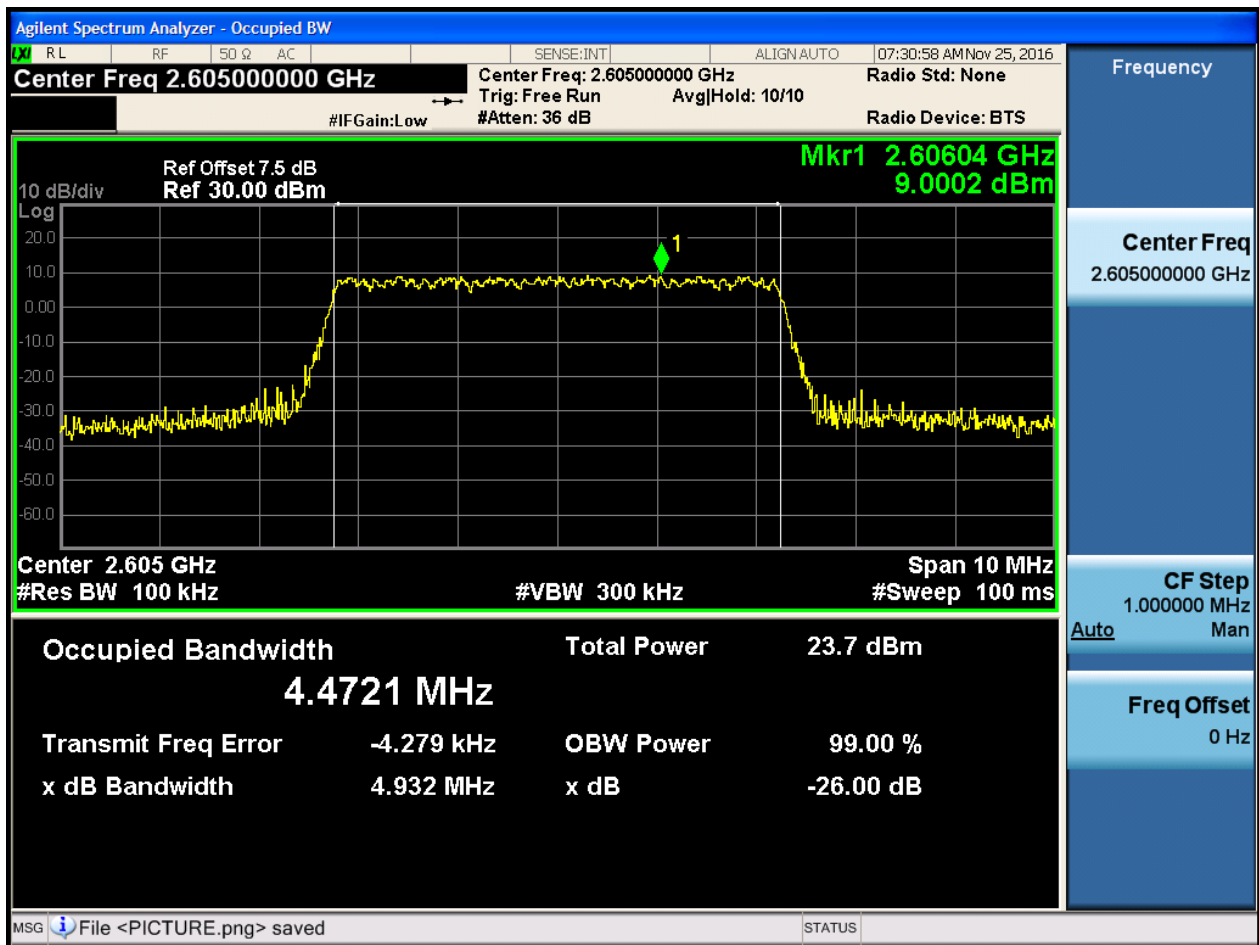
4.1.1.1.1.1.1 Test RB = RB25#0





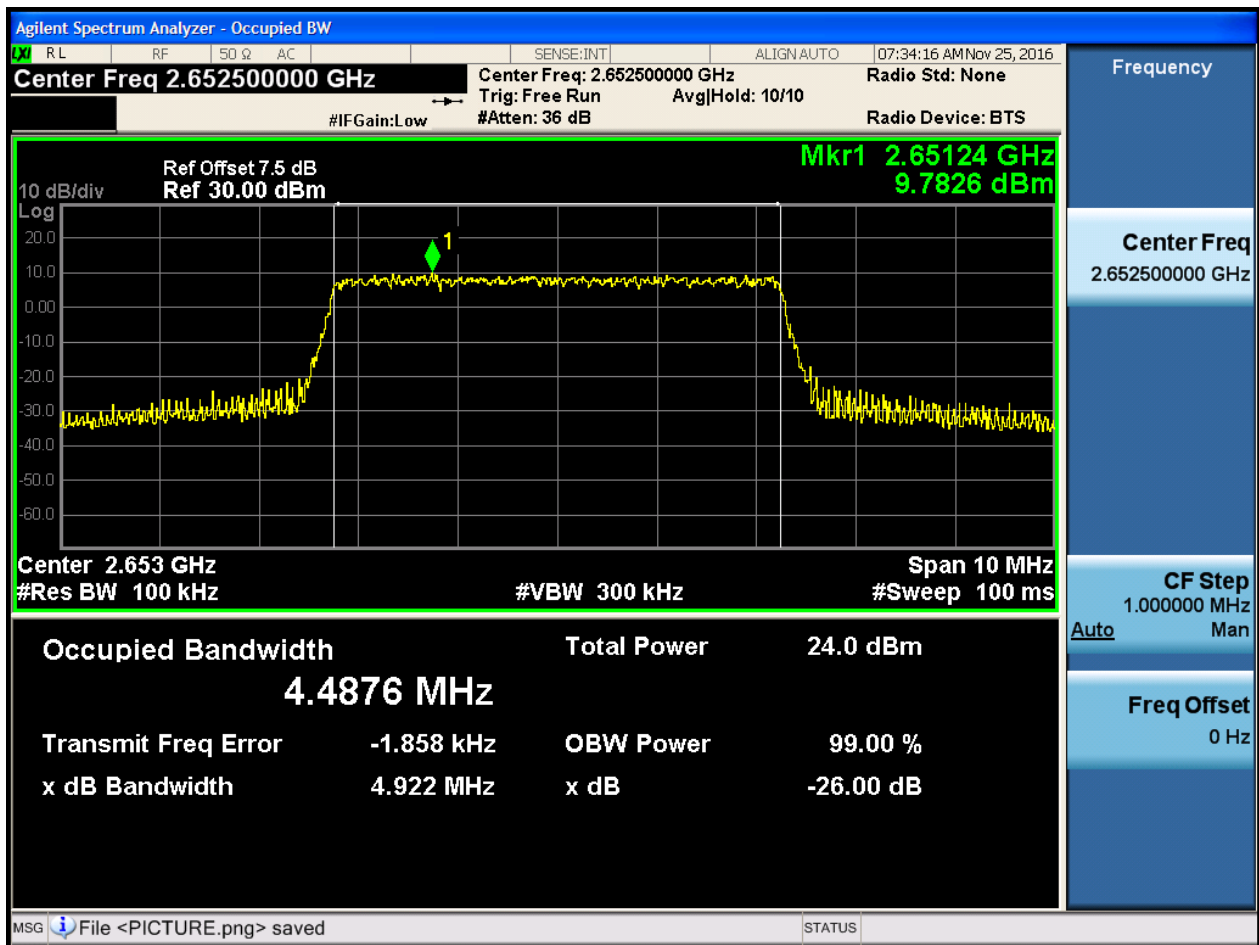
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

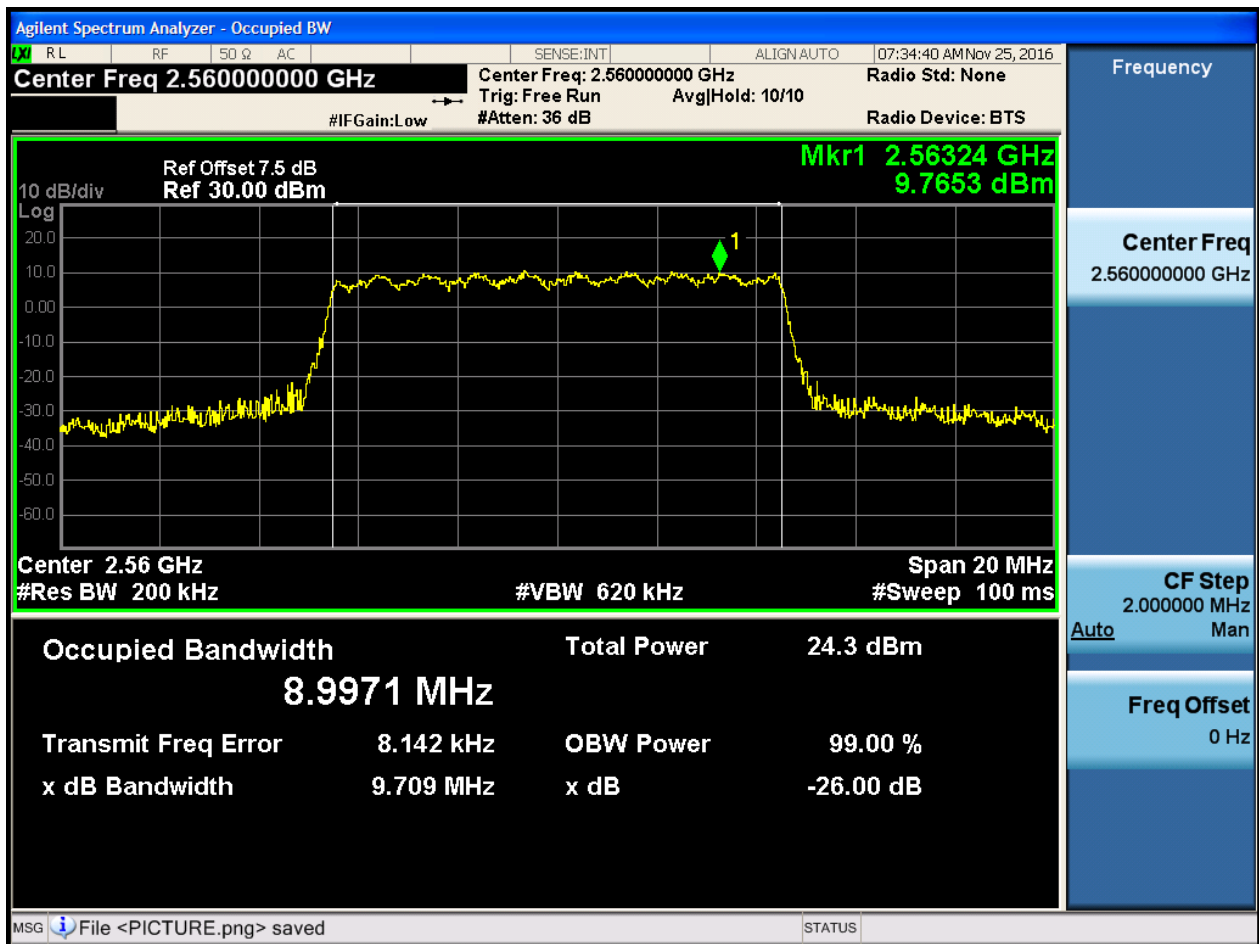




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

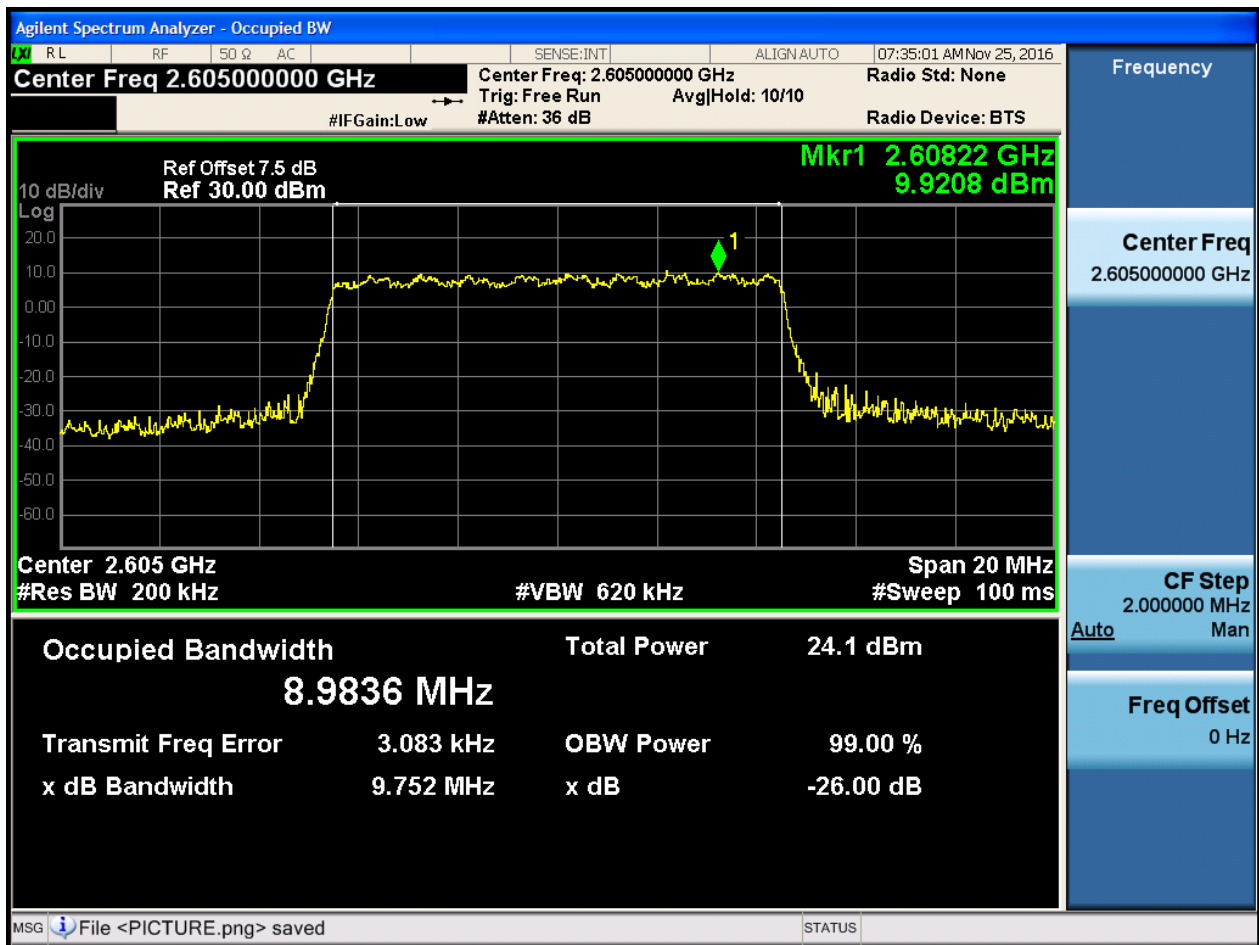
4.1.1.1.2.1.1 Test RB = RB50#0





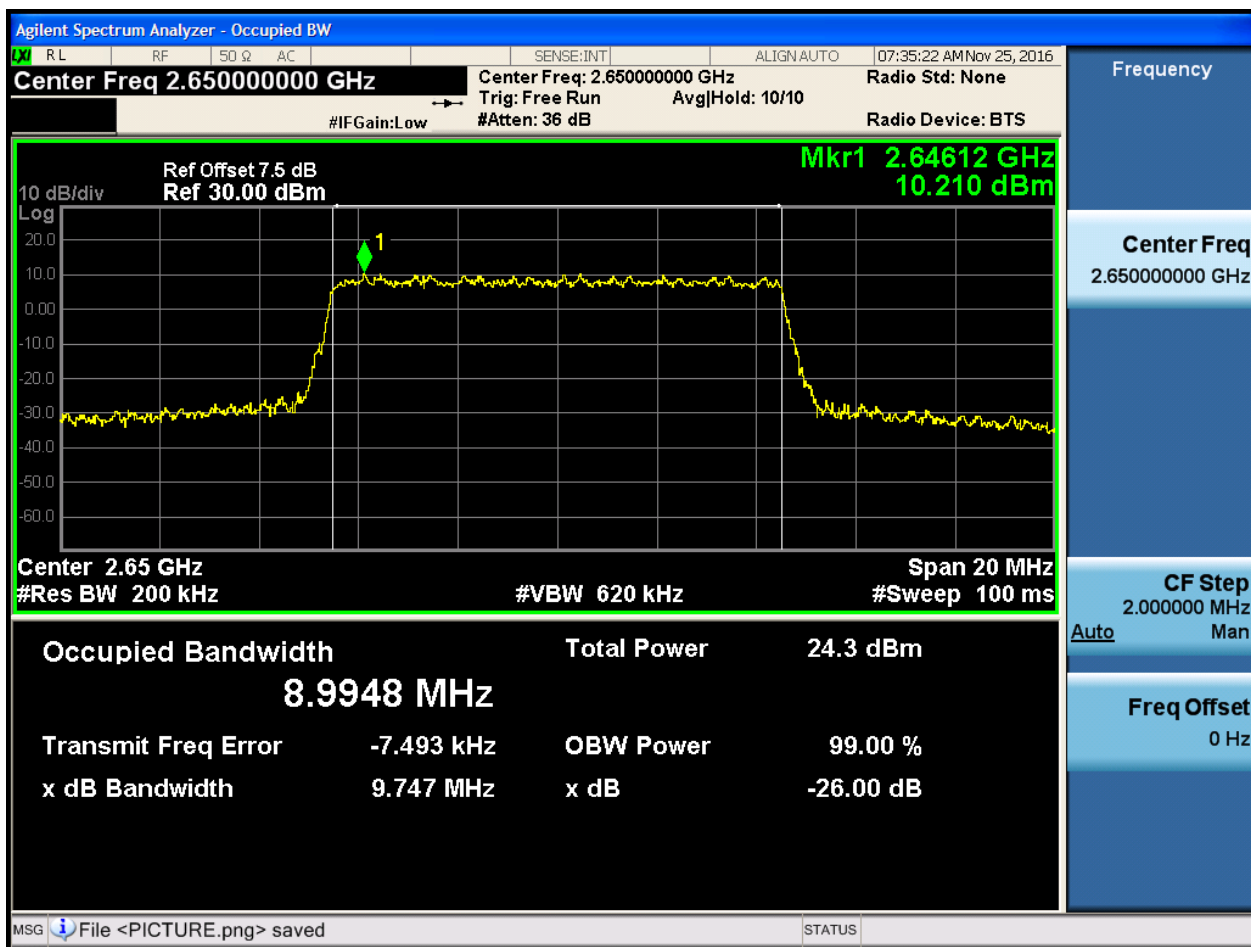
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

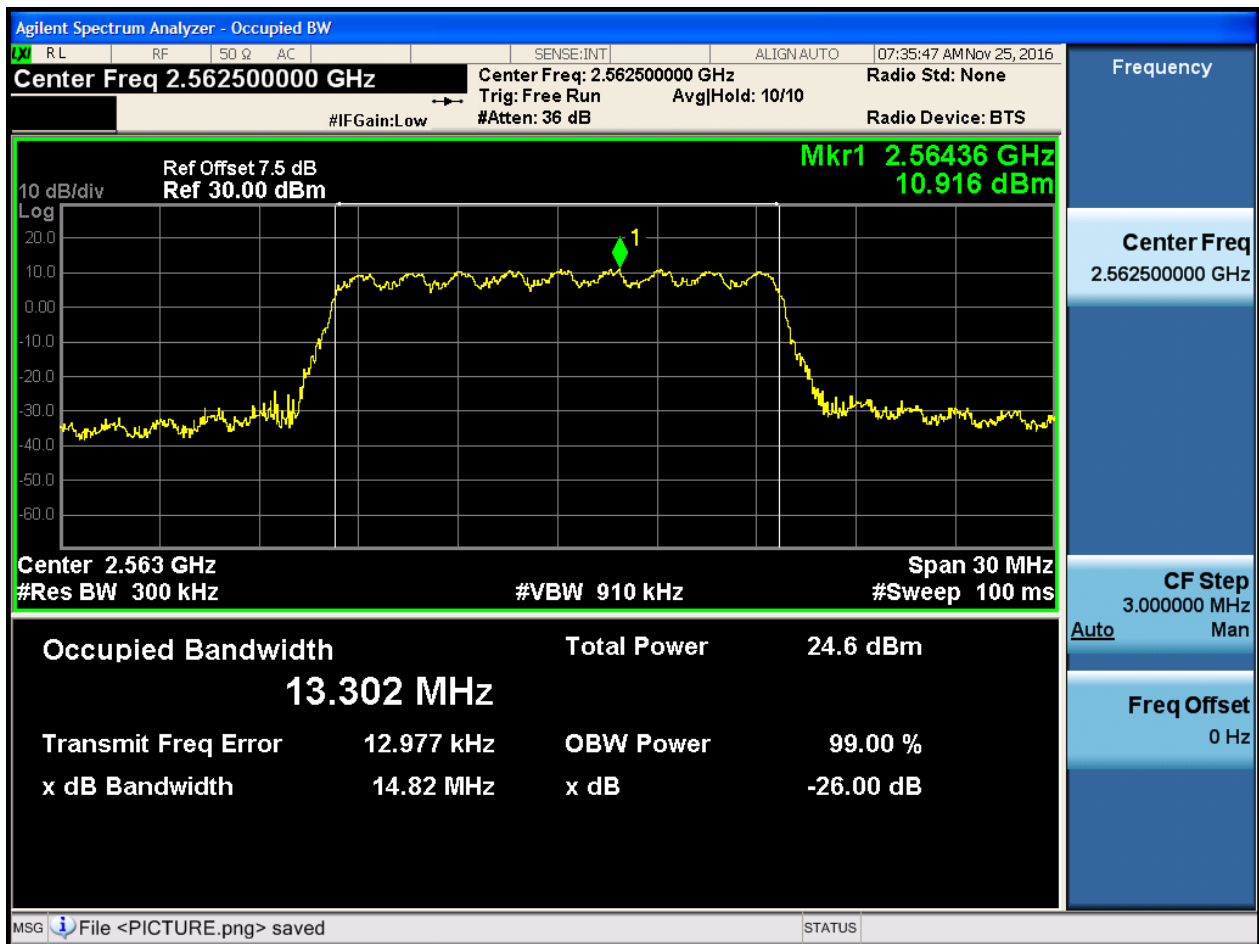




4.1.1.1.3 Test Bandwidth = 15

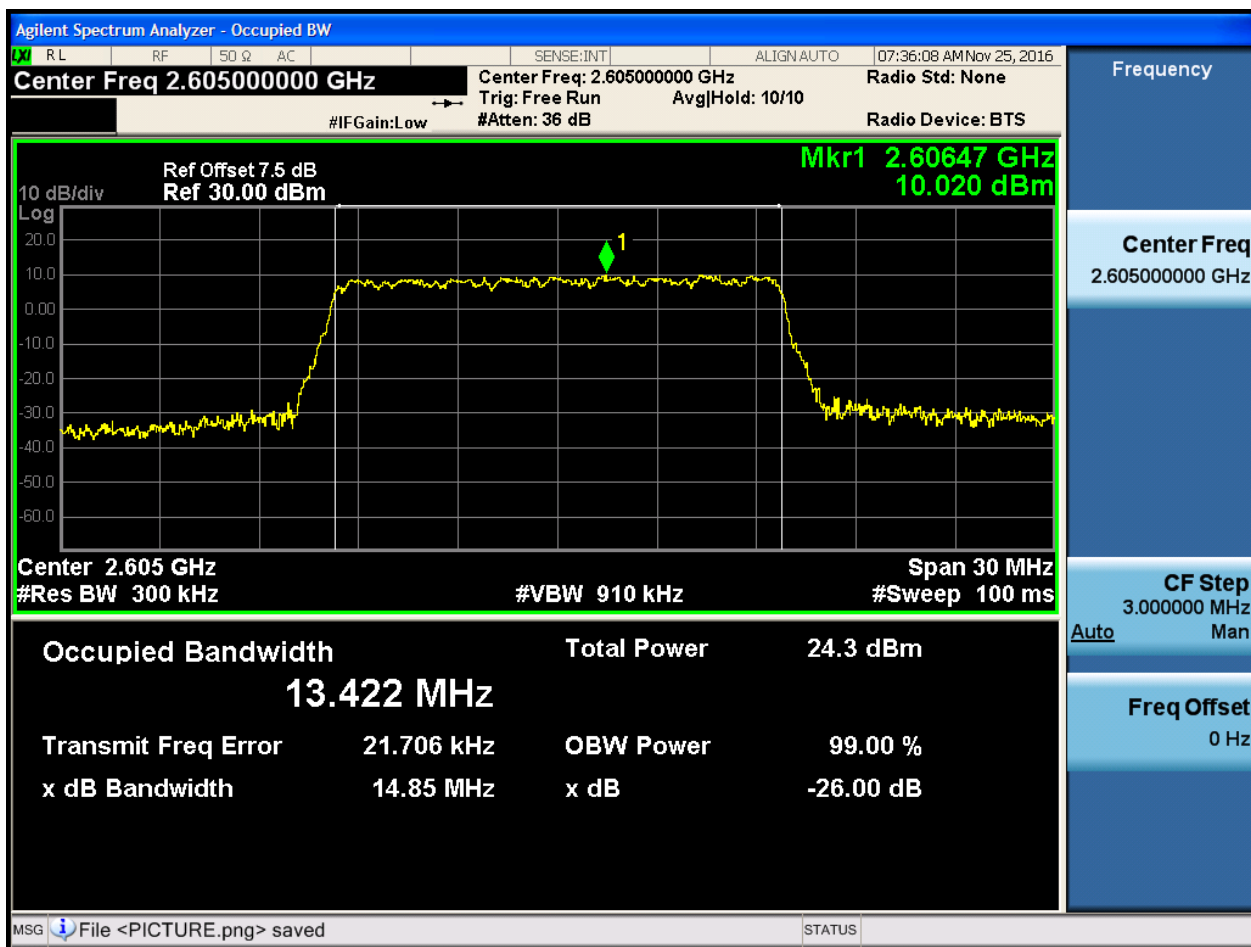
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



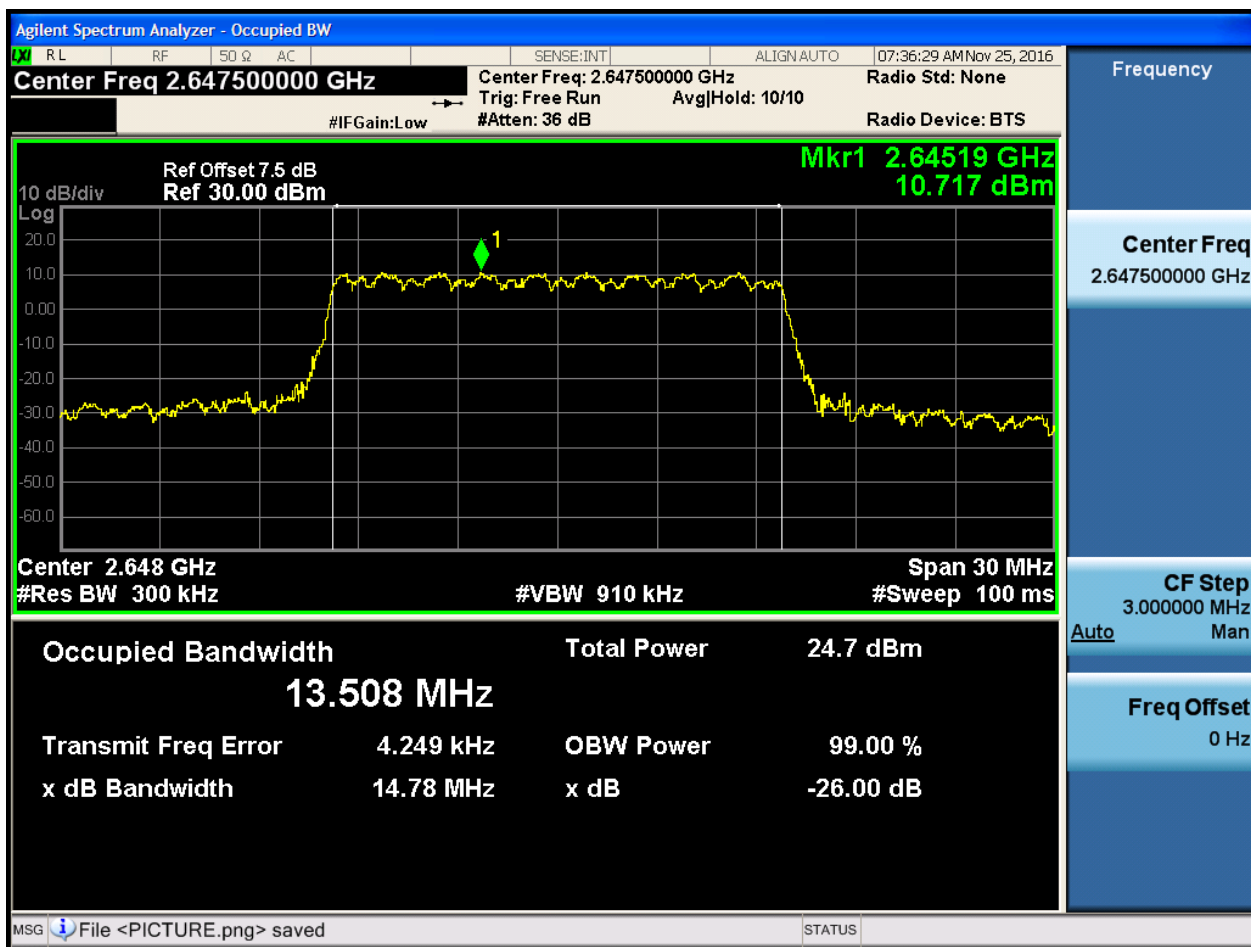
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0



4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

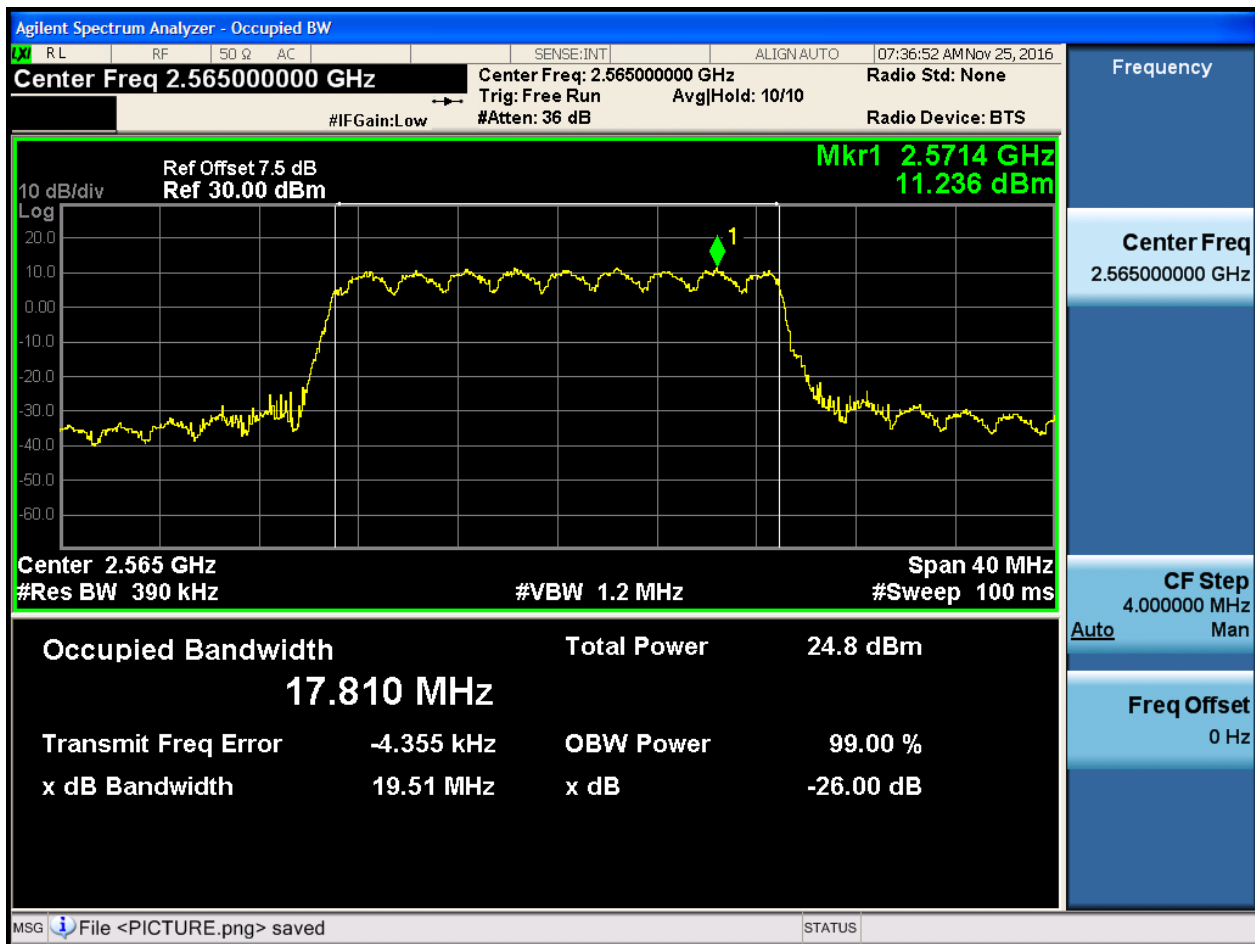




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

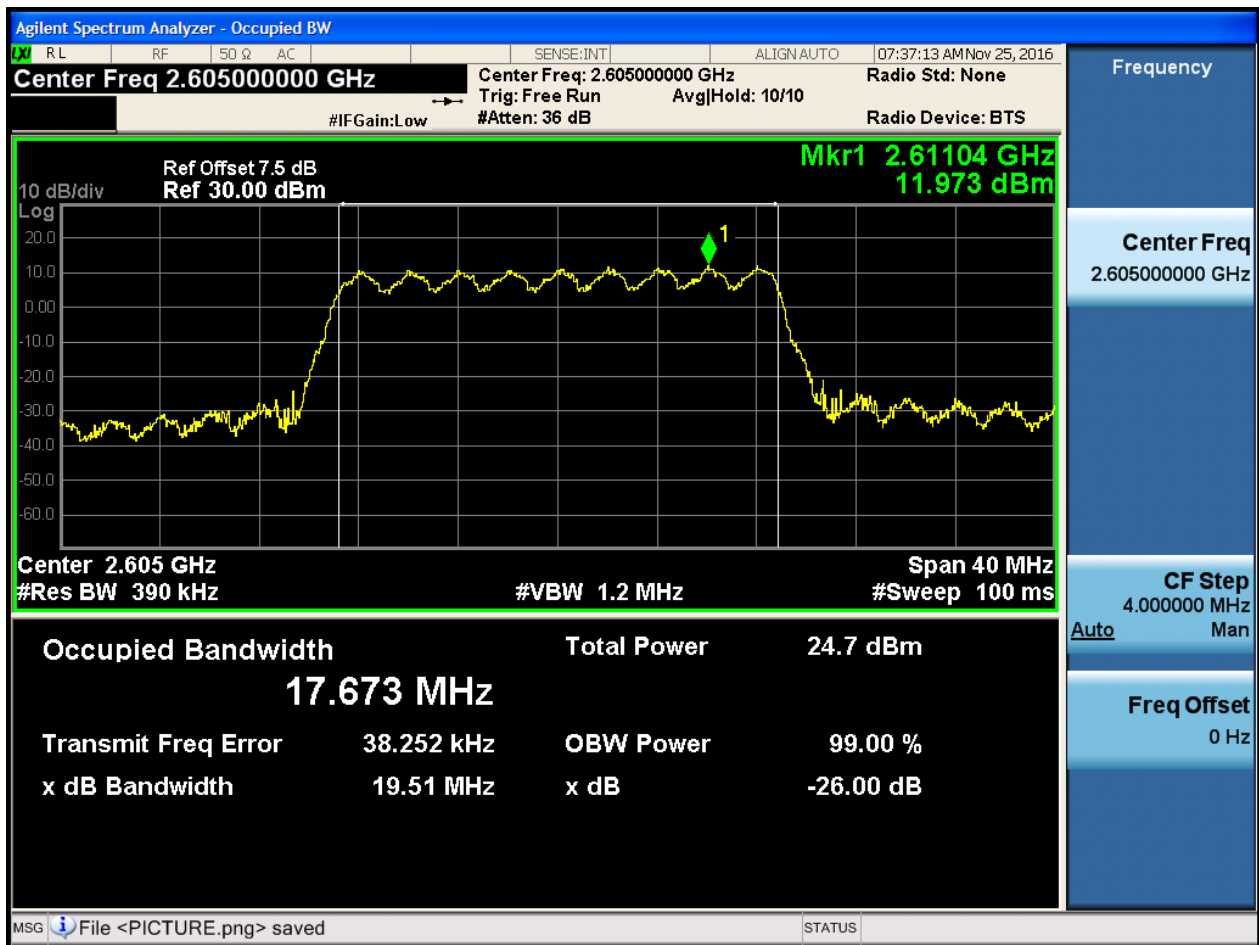
4.1.1.1.4.1.1 Test RB = RB100#0





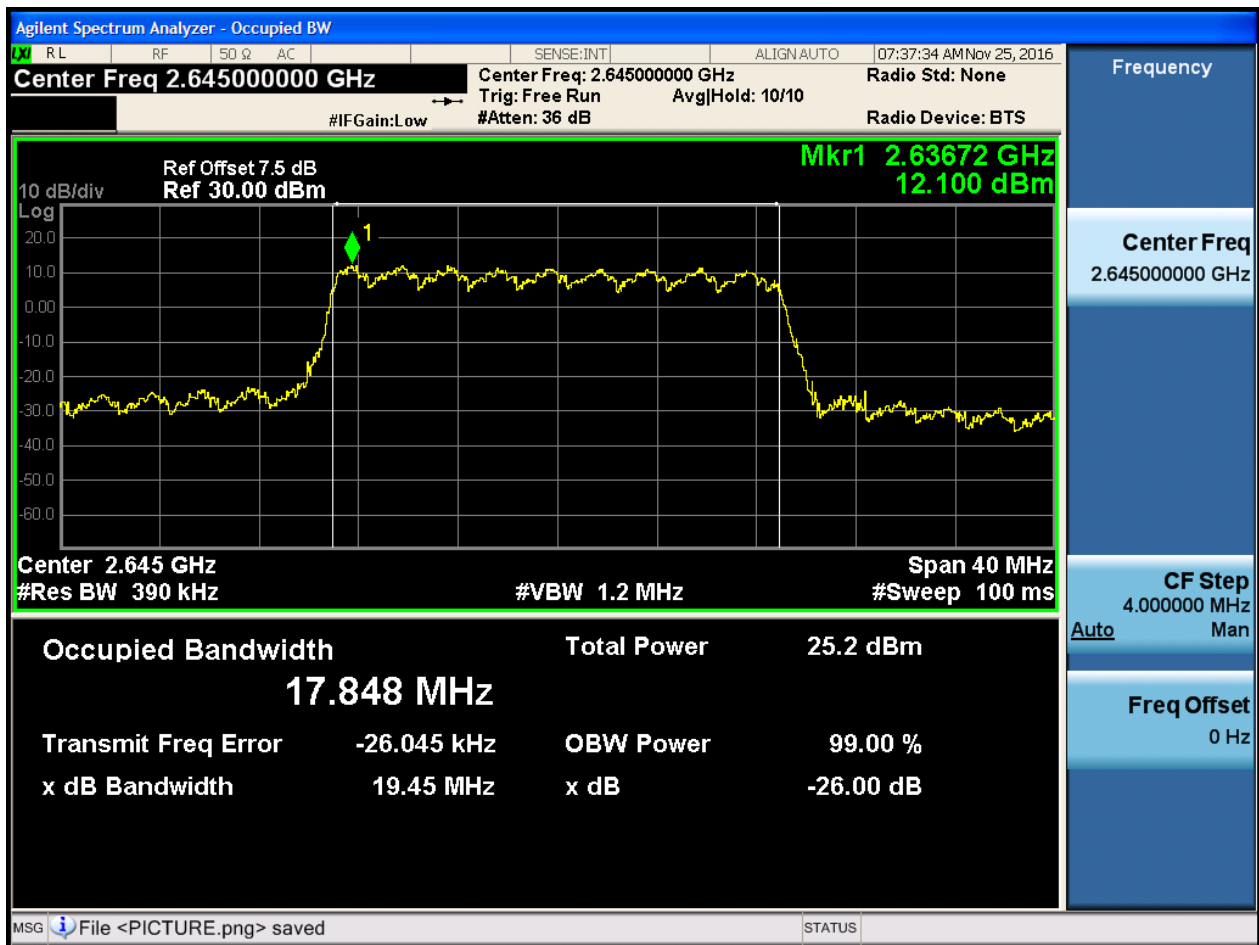
4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB100#0



4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



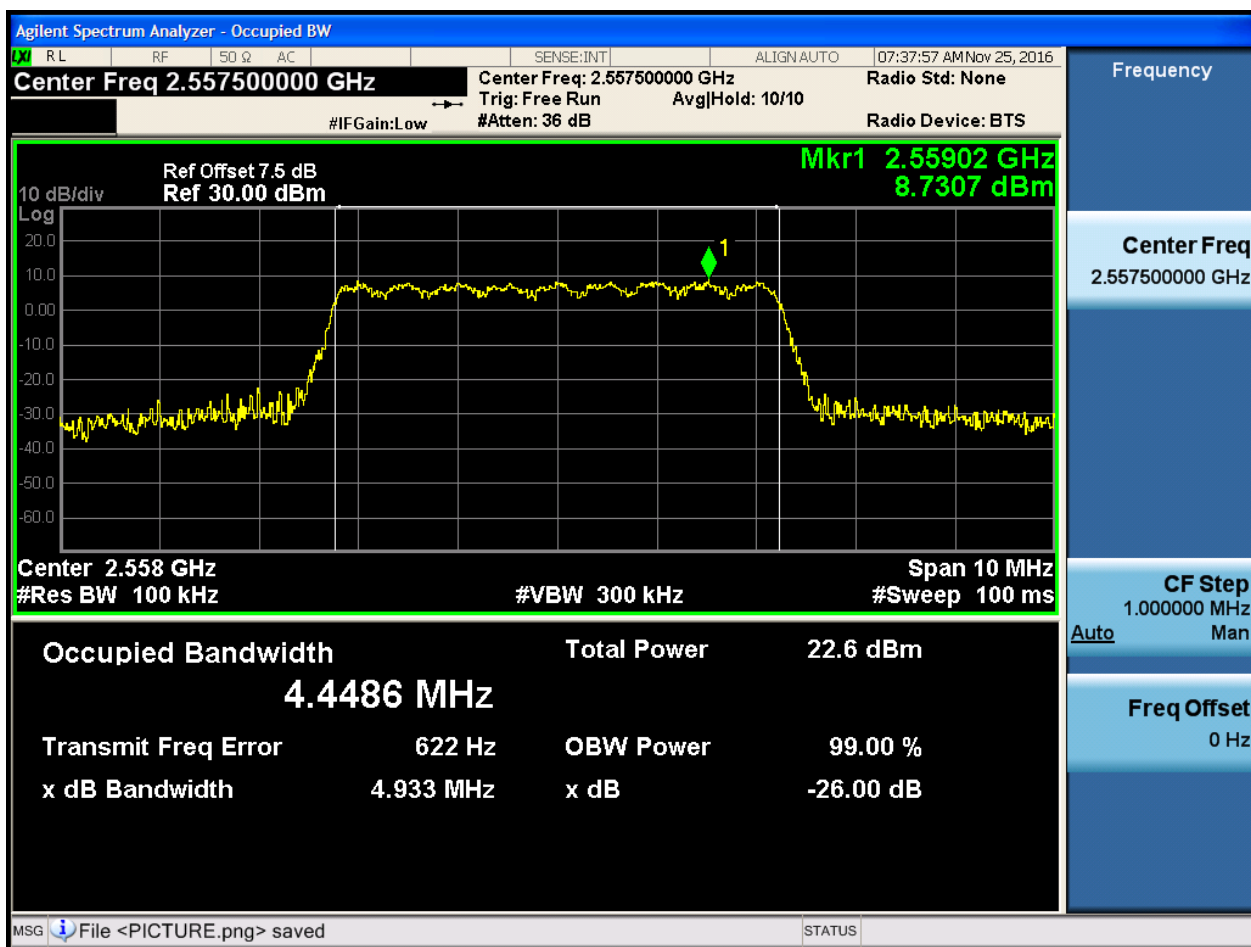


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

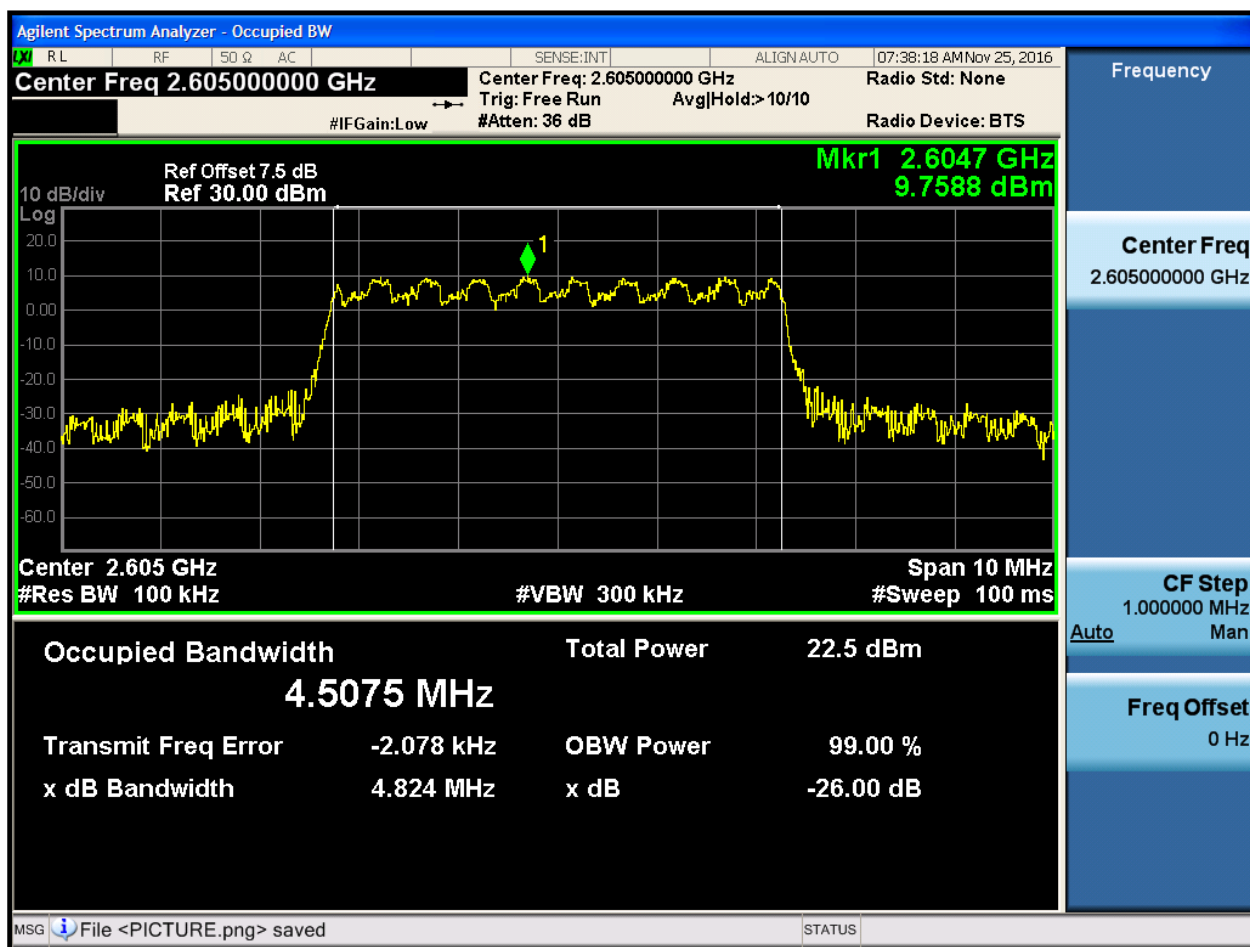
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



4.1.1.2.1.2 Test Channel = MCH

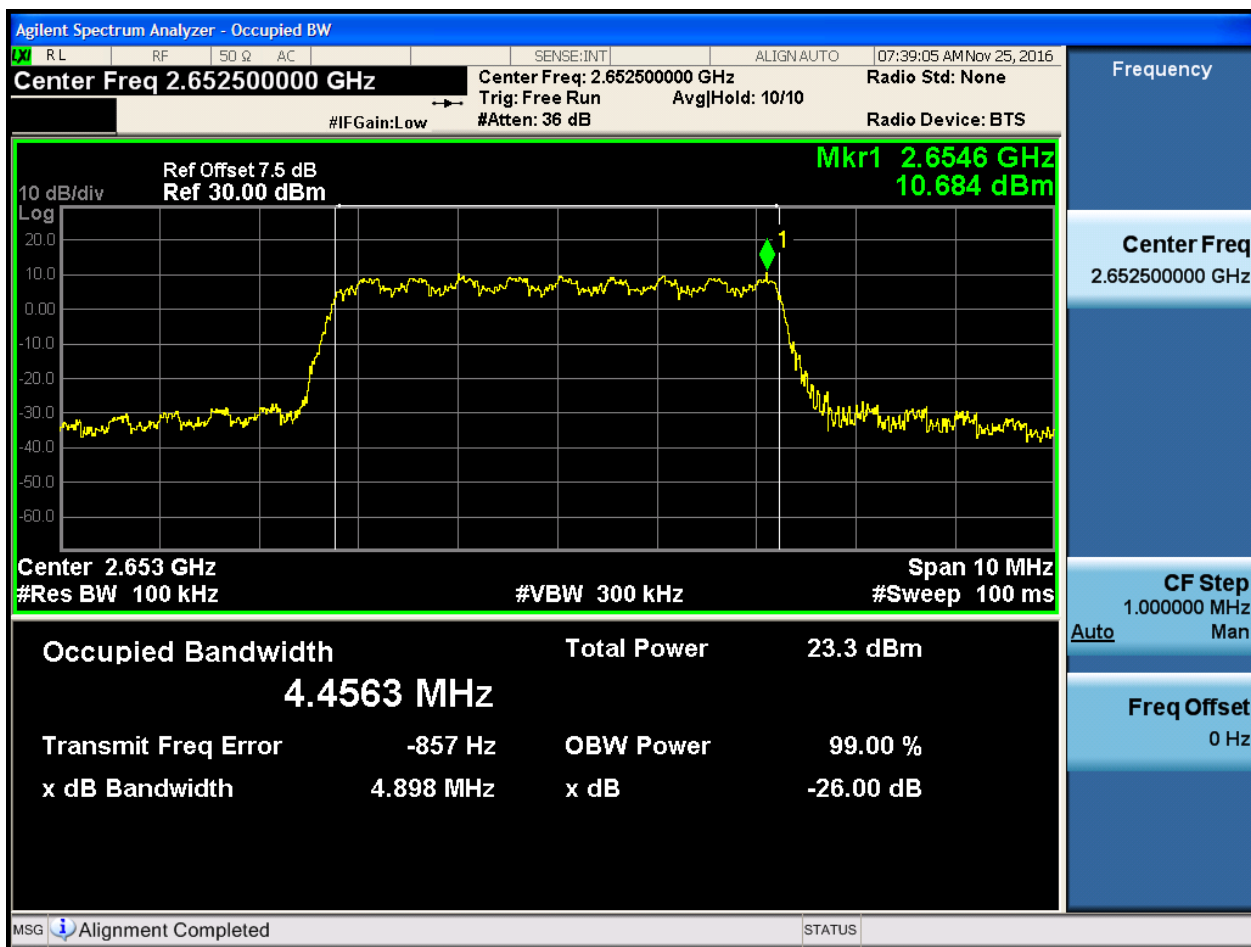
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

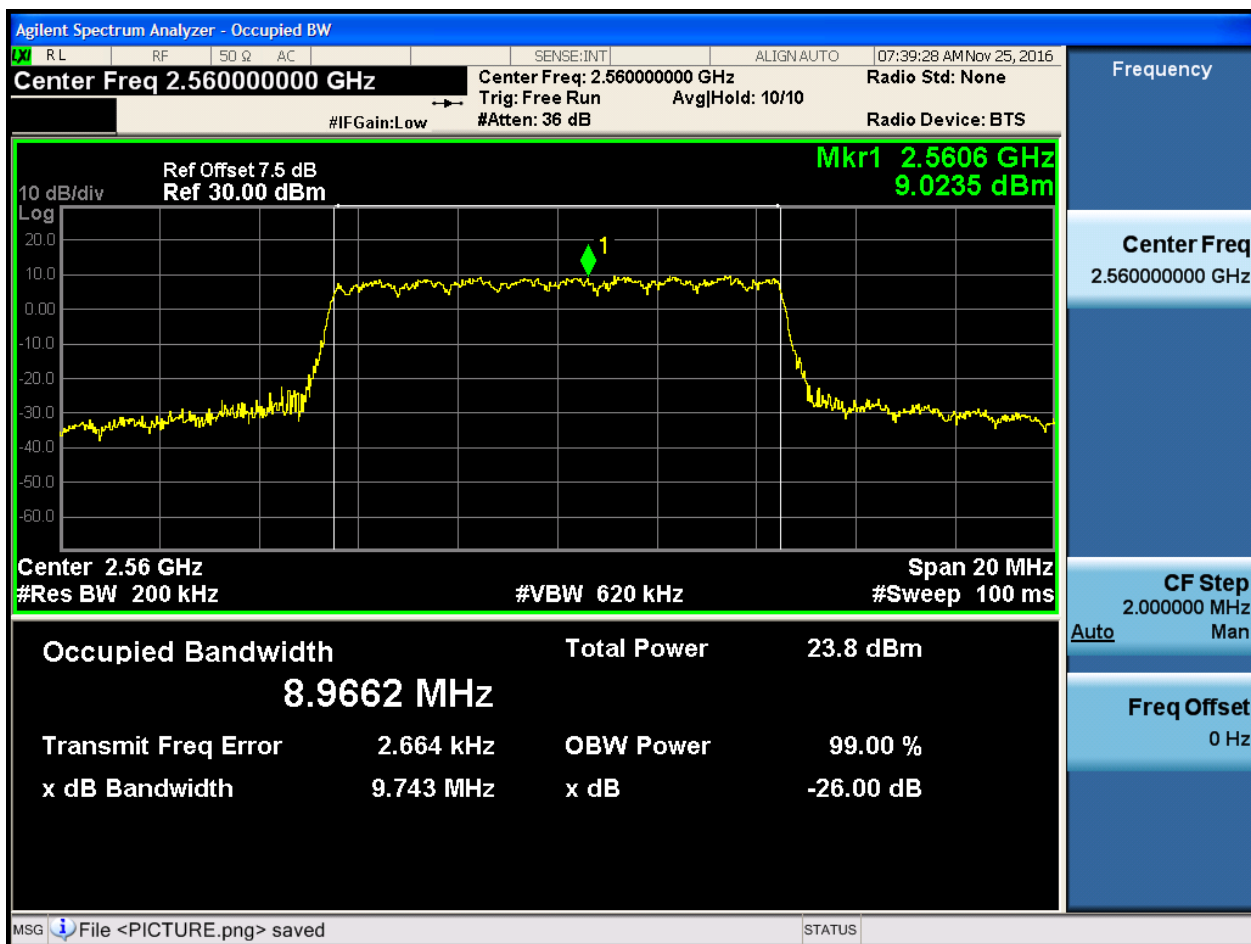




4.1.1.2.2 Test Bandwidth = 10

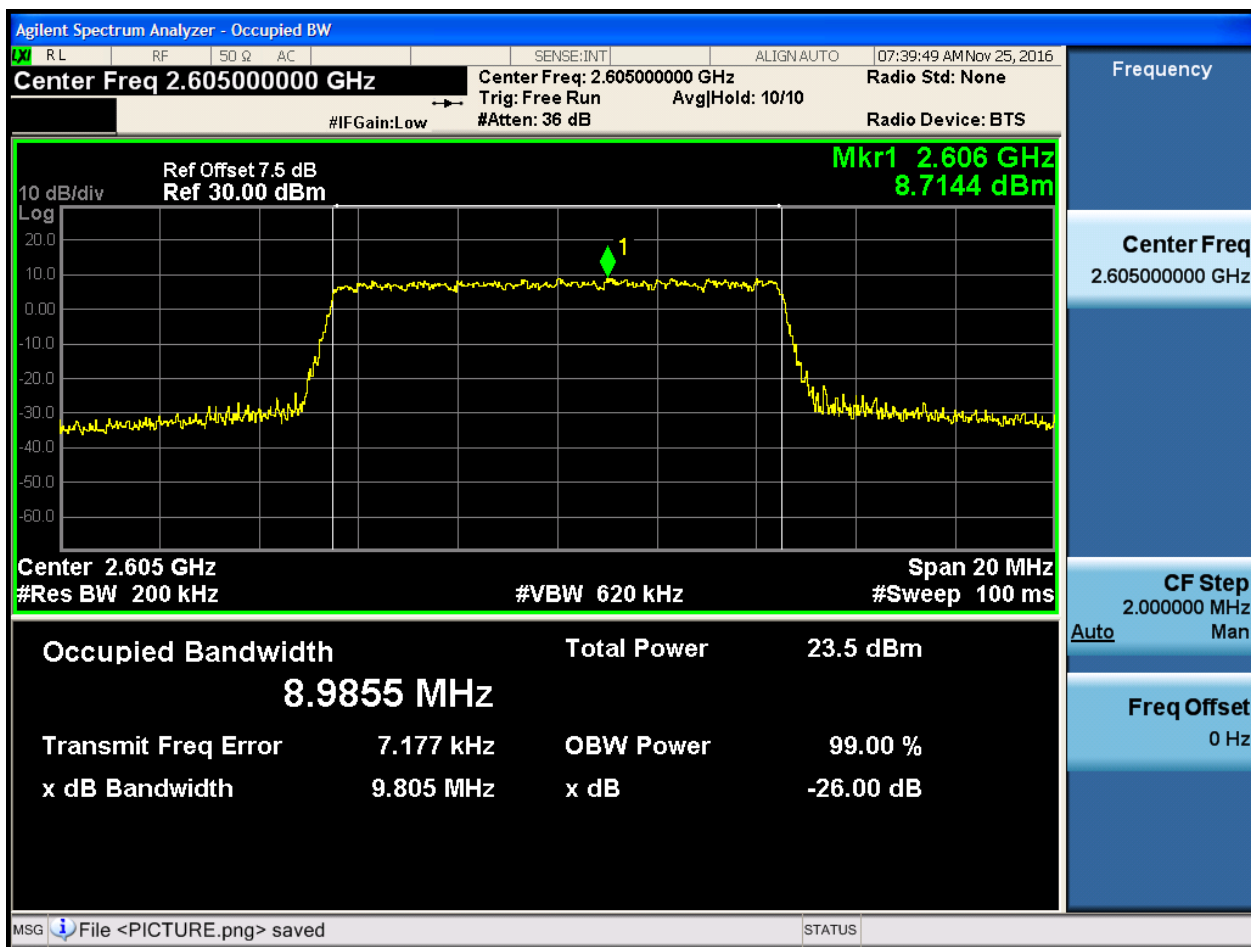
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB50#0



4.1.1.2.2.2 Test Channel = MCH

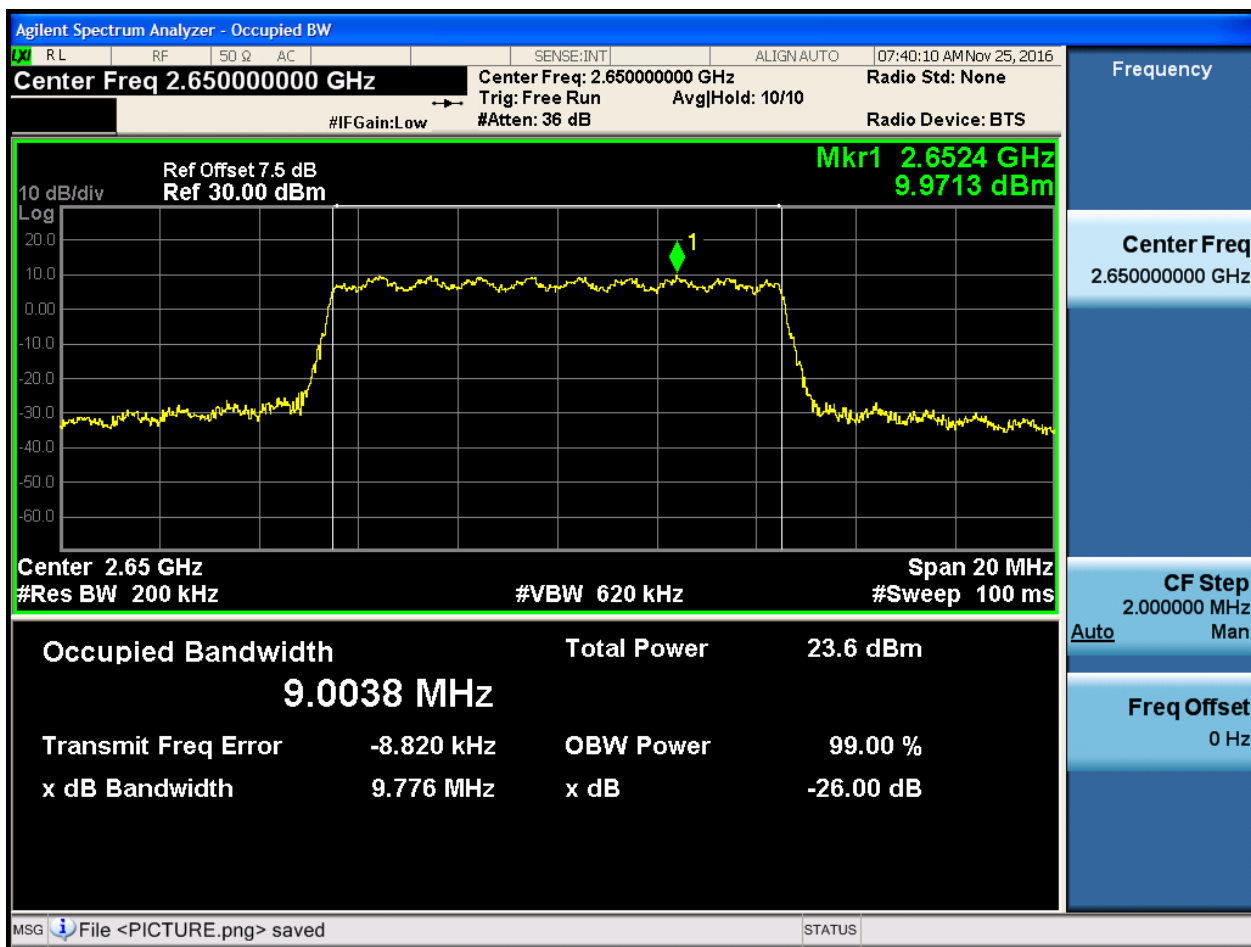
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

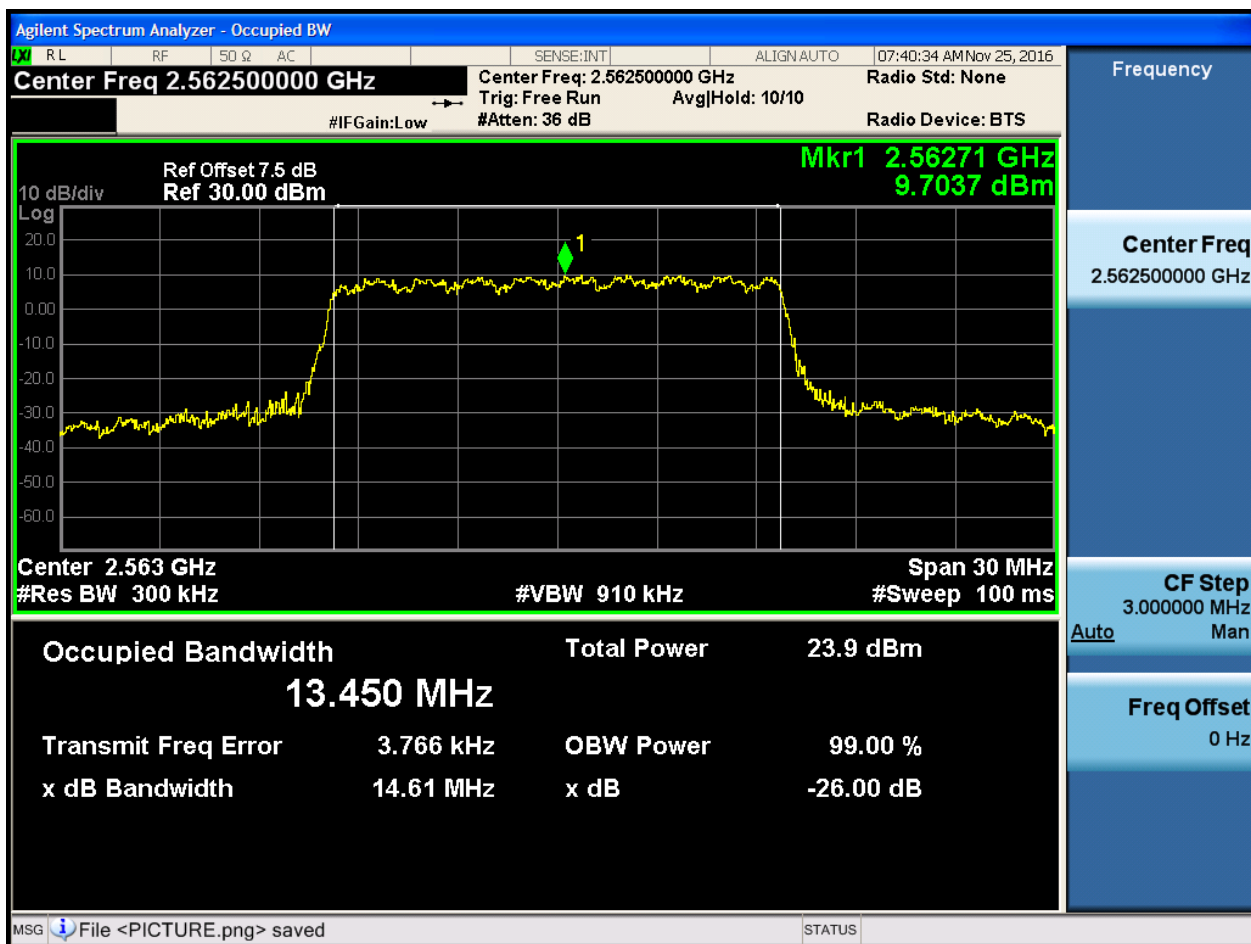




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

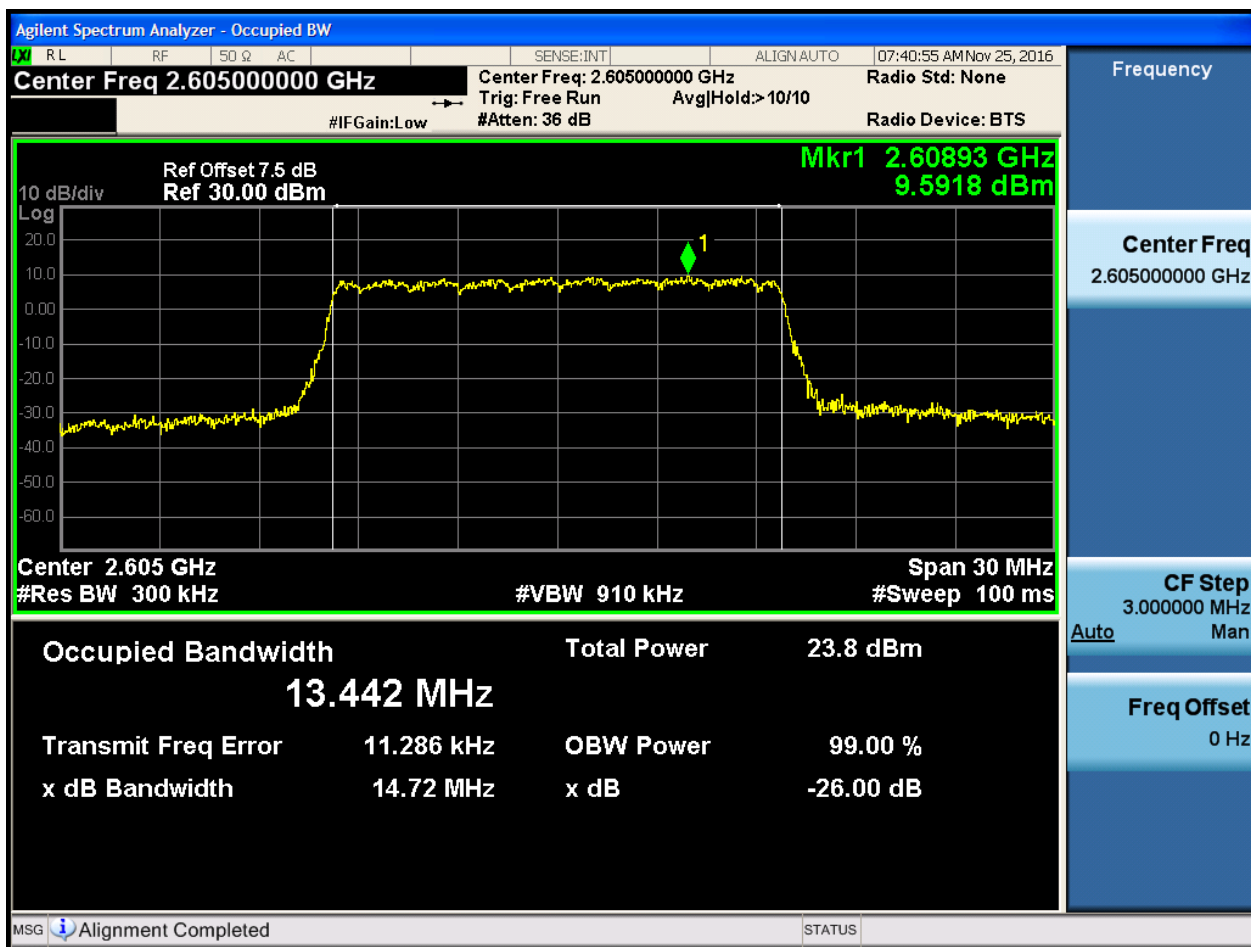
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

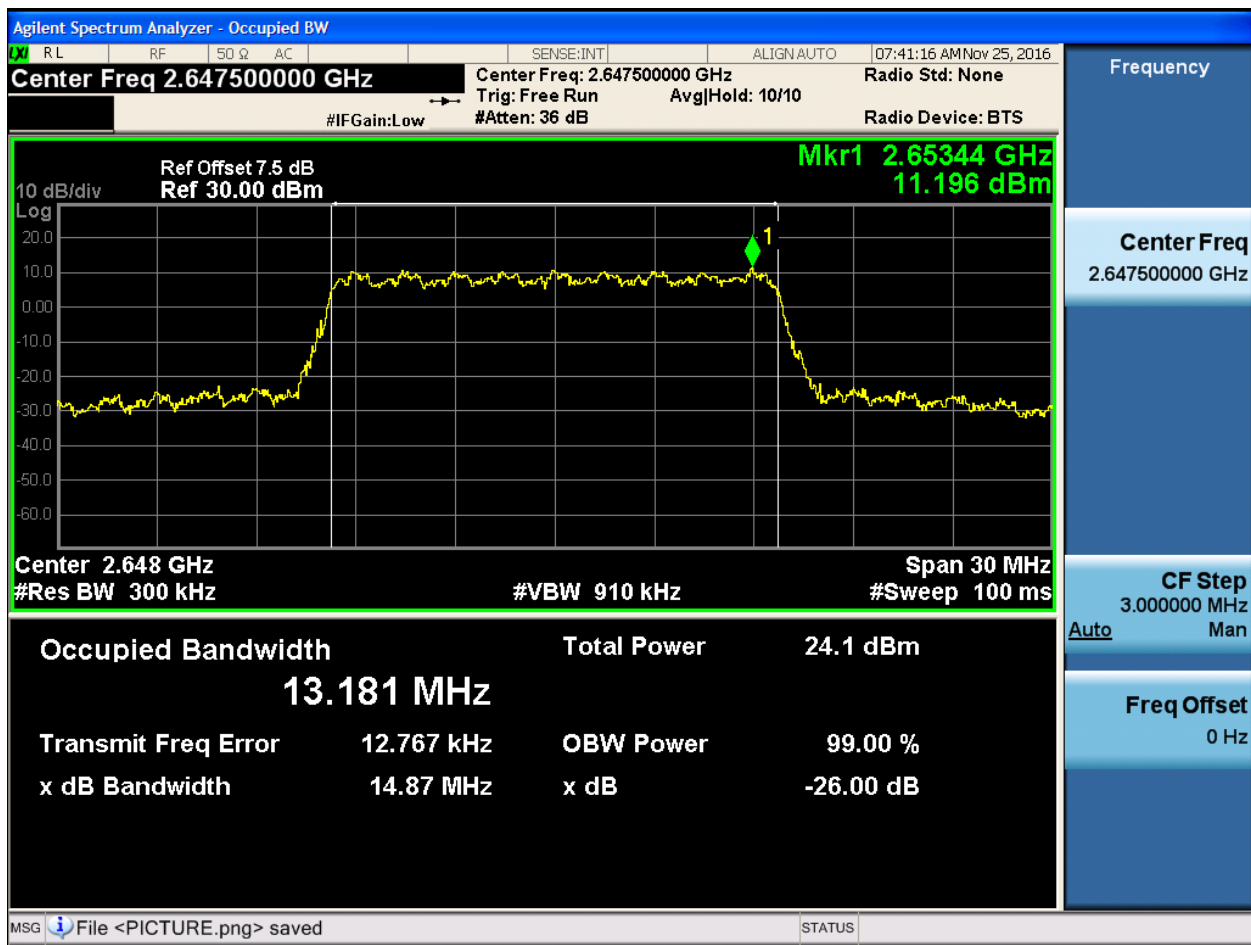
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

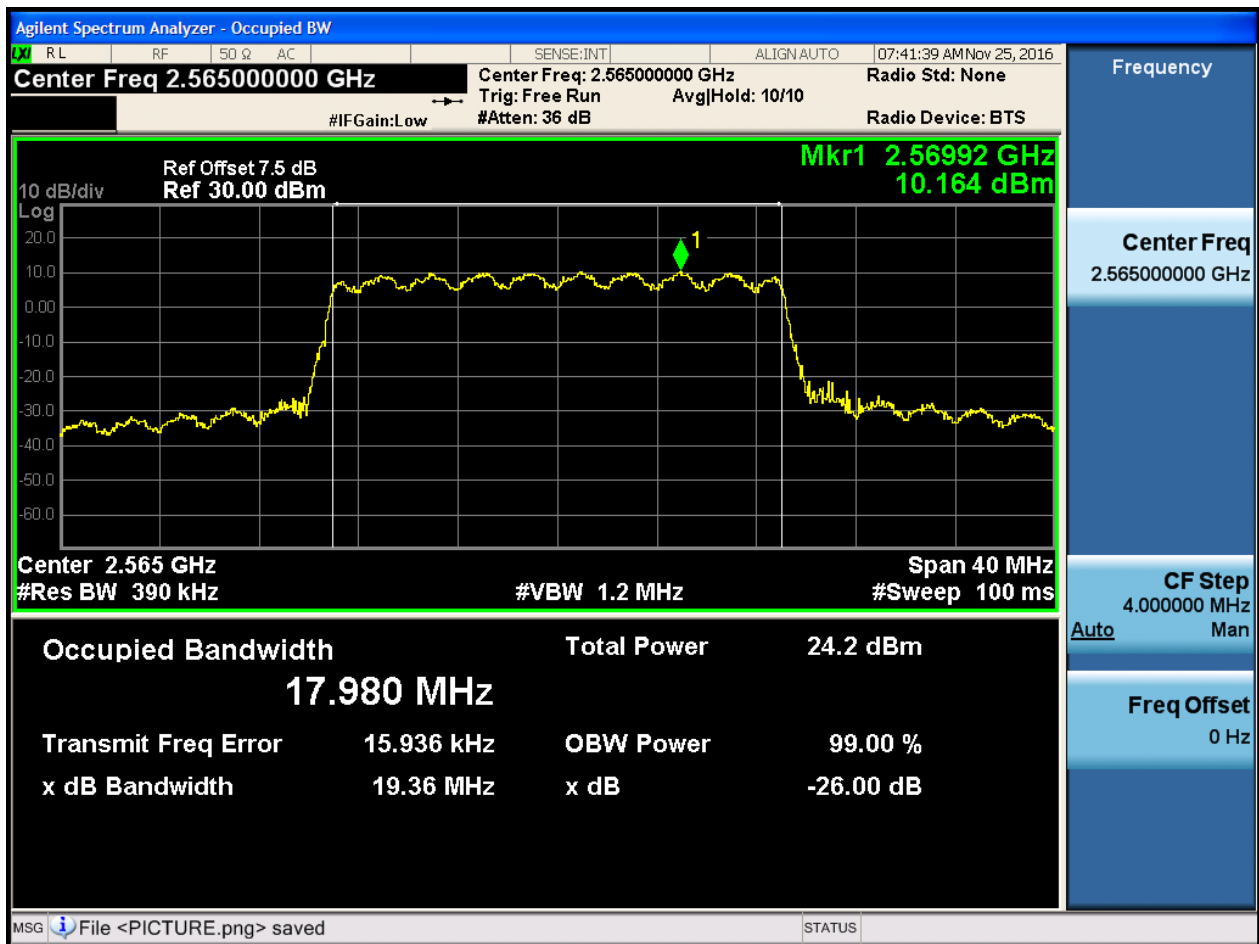




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

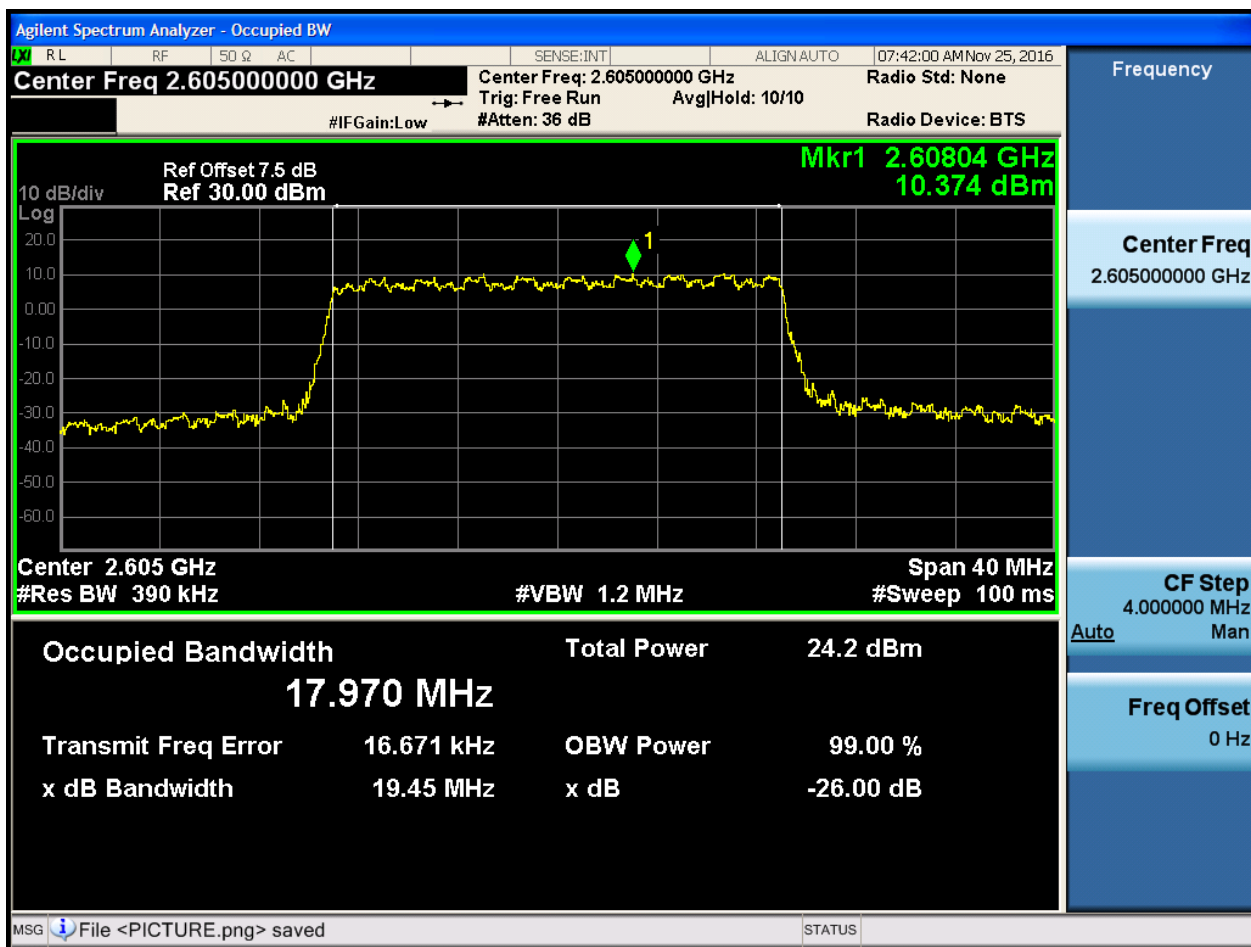
4.1.1.2.4.1.1 Test RB = RB100#0





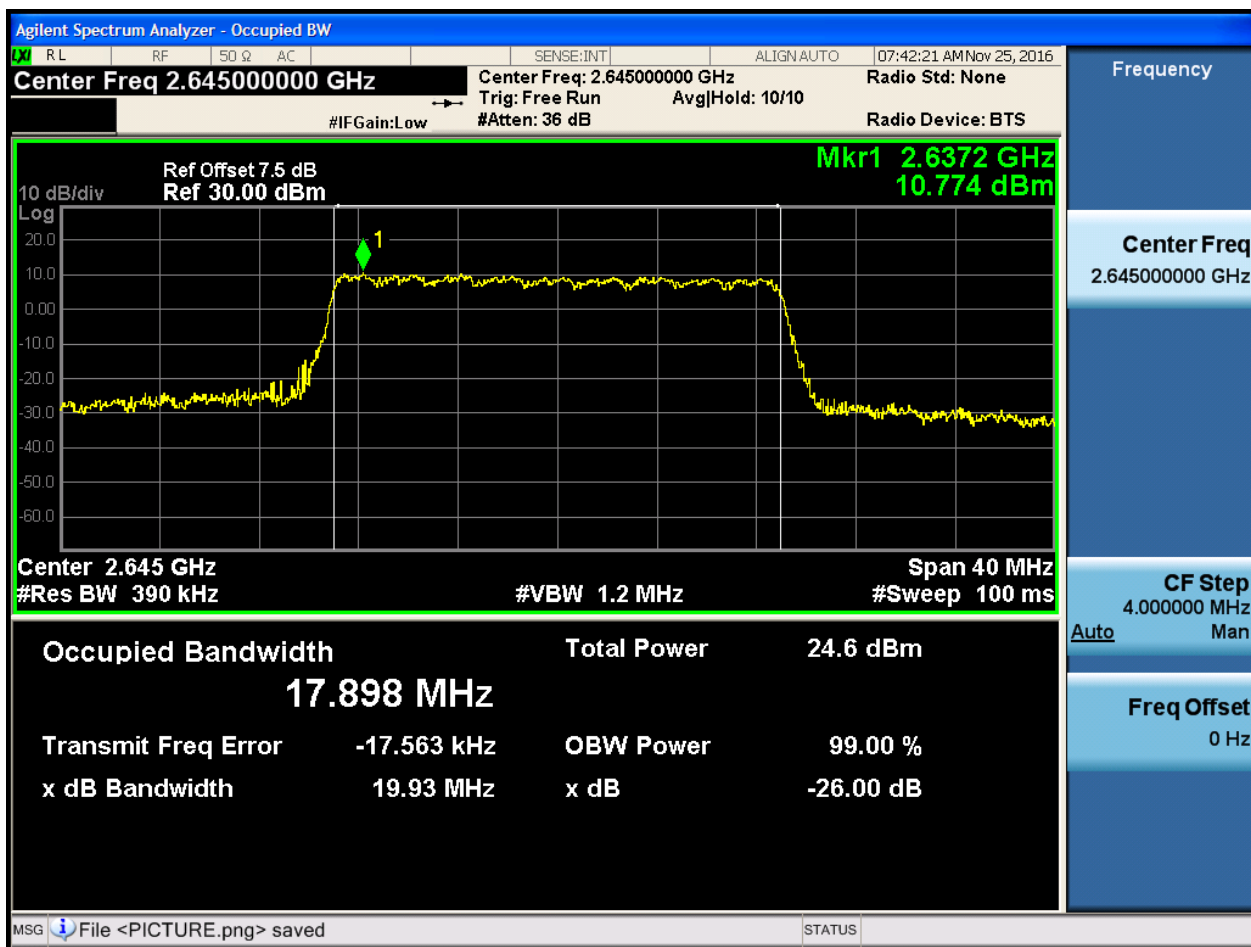
4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB100#0



4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

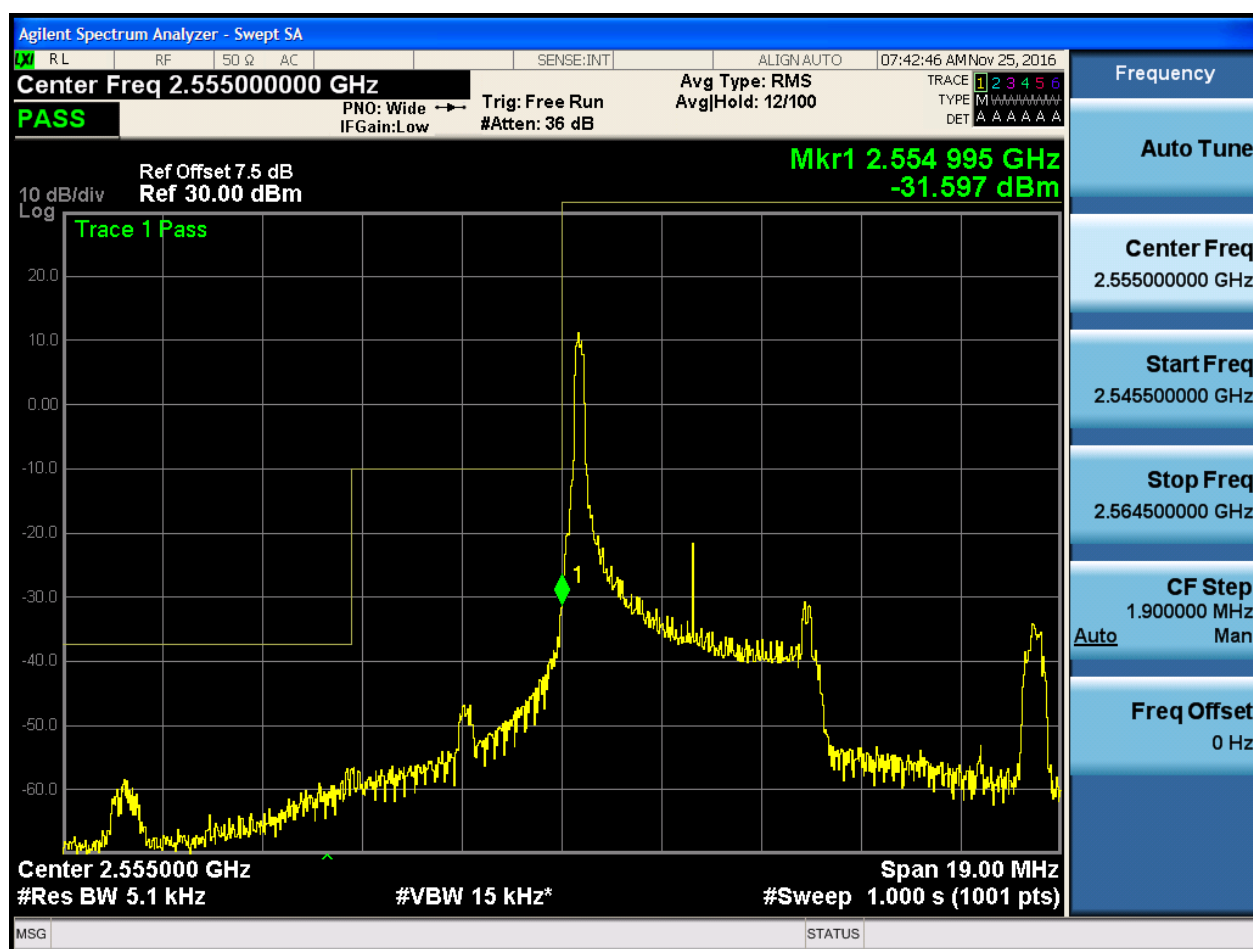
5.1.1 Test Band = BAND41

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

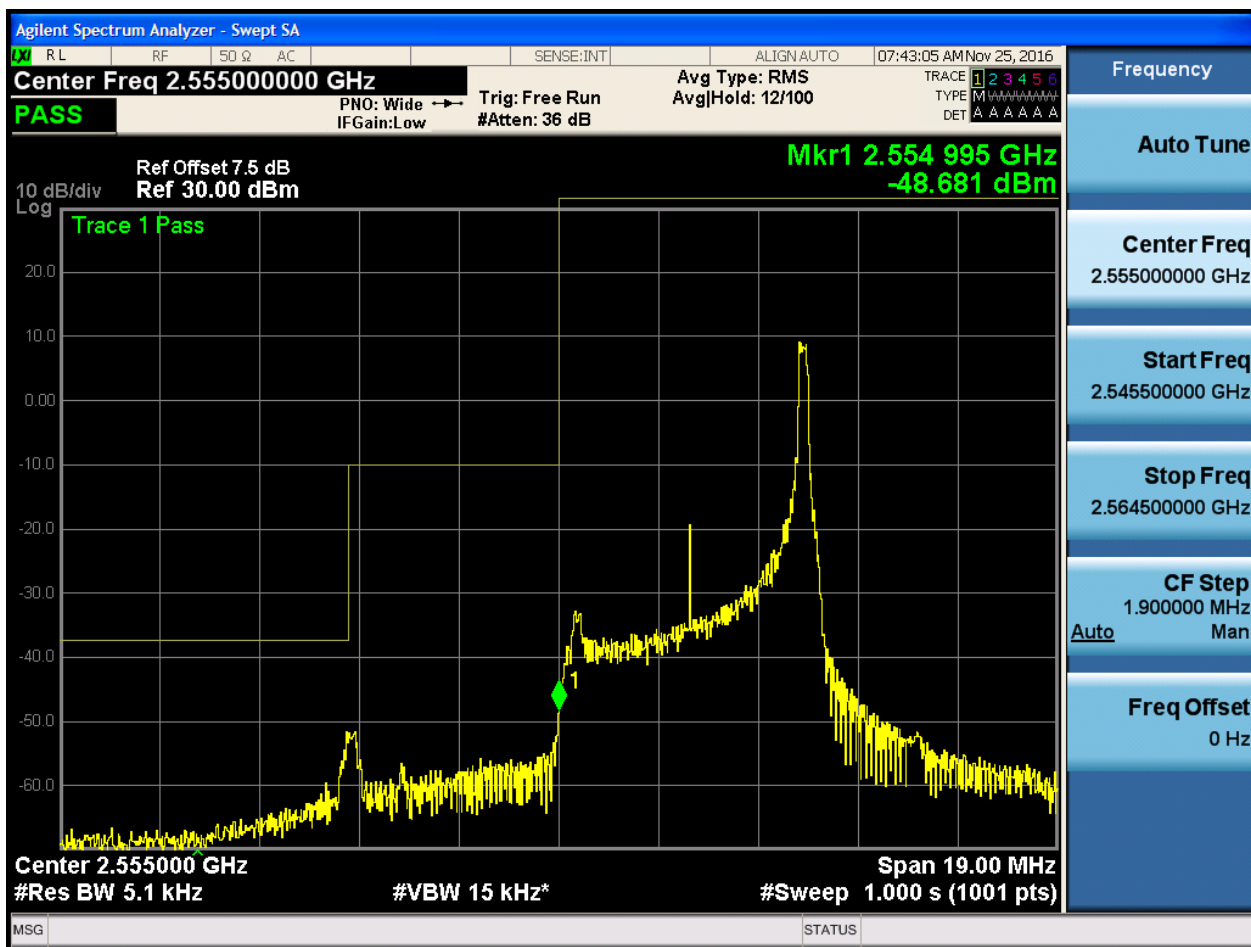
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



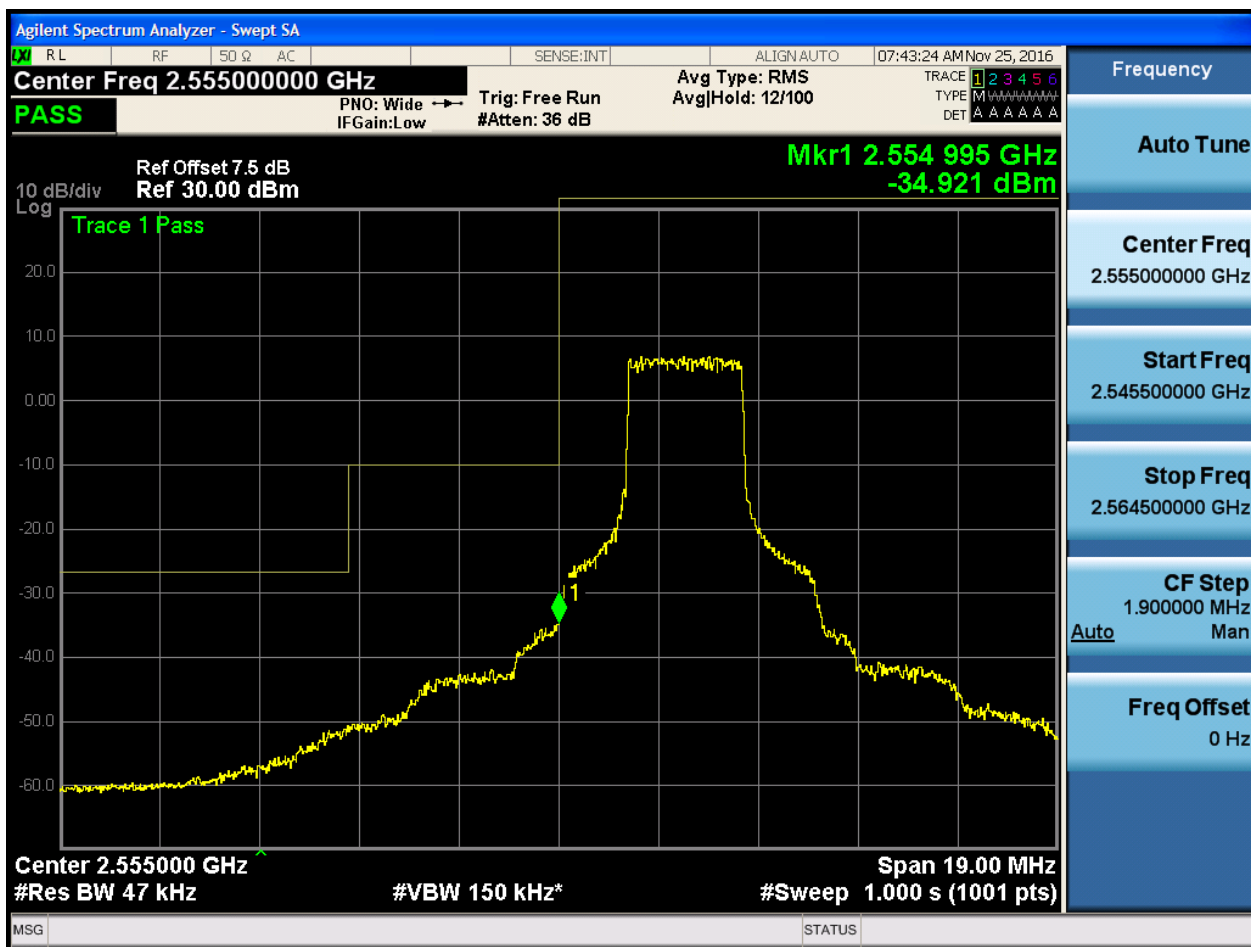


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:43:42 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-28.106 dBm

10 dB/div
Log

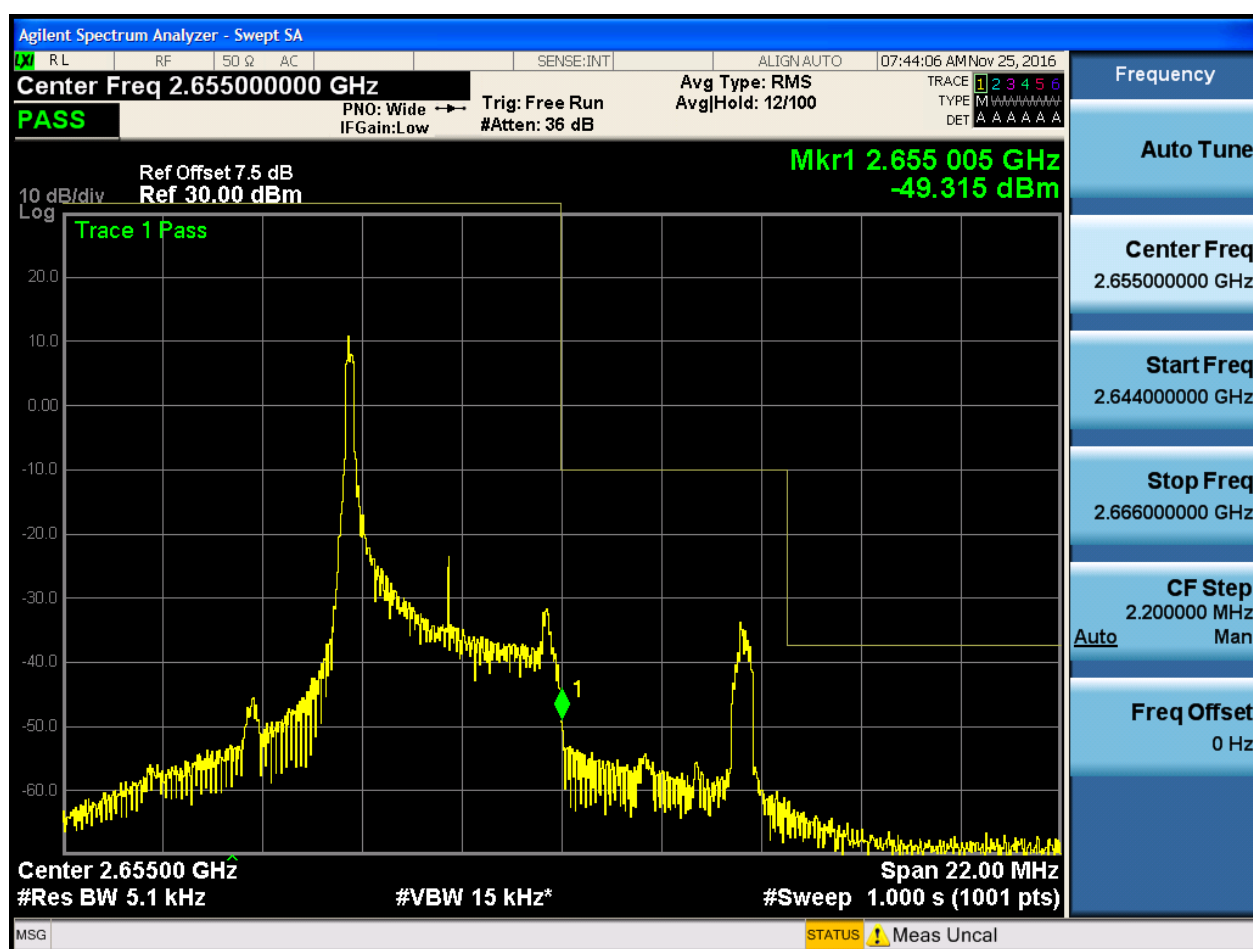
Trace 1 Pass

Center 2.555000 GHz
#Res BW 91 kHz #VBW 270 kHz* Span 19.00 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#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:44:44 AM Nov 25, 2016

Center Freq 2.655000000 GHz Avg Type: RMS
#Res BW 47 kHz IF Gain: Low Trig: Free Run #Atten: 36 dB

PASS PNO: Wide TYPE M DET A A A A A A

Ref Offset 7.5 dB Mkr1 2.655 005 GHz
Ref 30.00 dBm -33.454 dBm

10 dB/div Log

Trace 1 Pass

Center 2.65500 GHz Span 22.00 MHz
#VBW 150 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.655000000 GHz

Start Freq
2.644000000 GHz

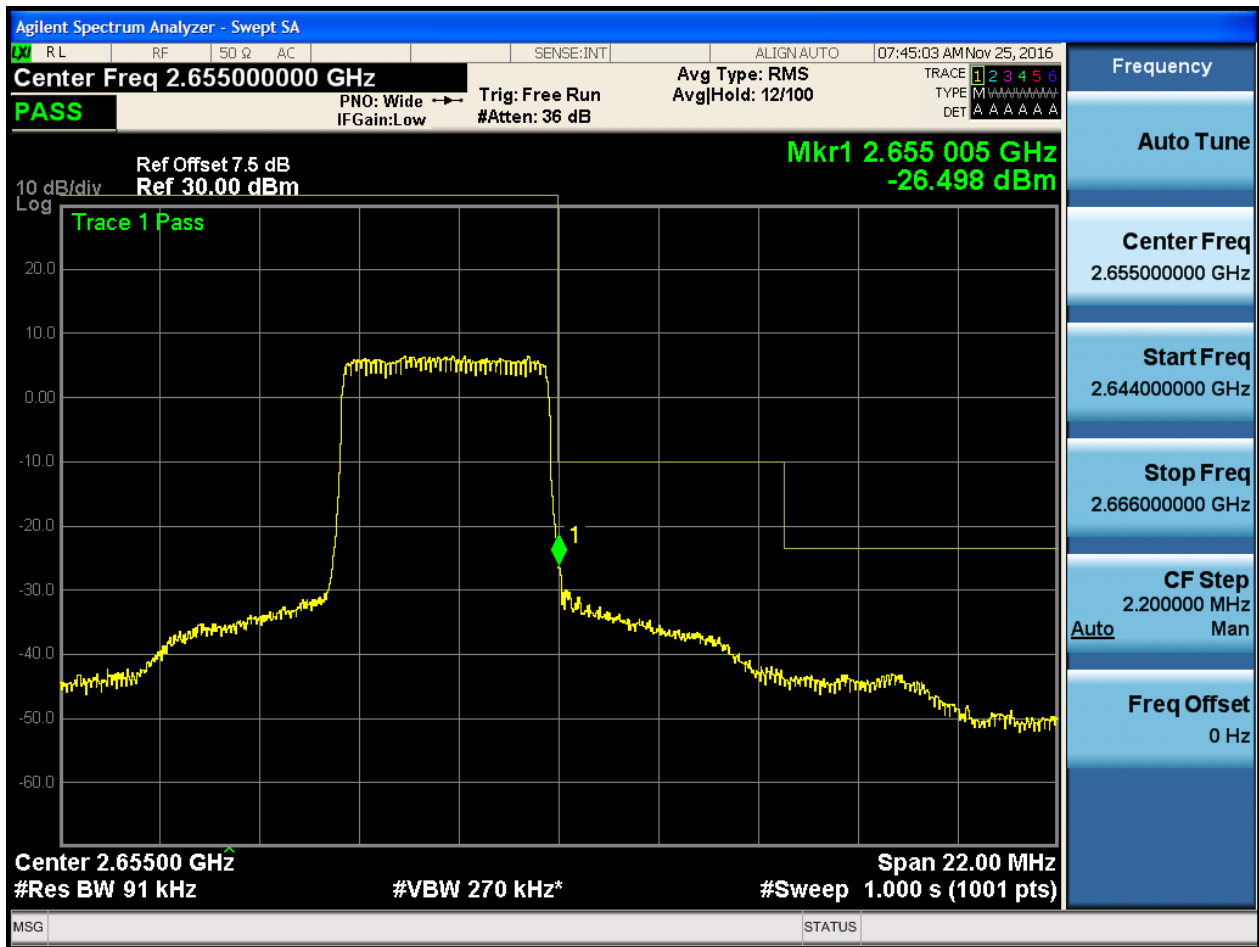
Stop Freq
2.666000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.1.2.4 Test RB = RB25#0

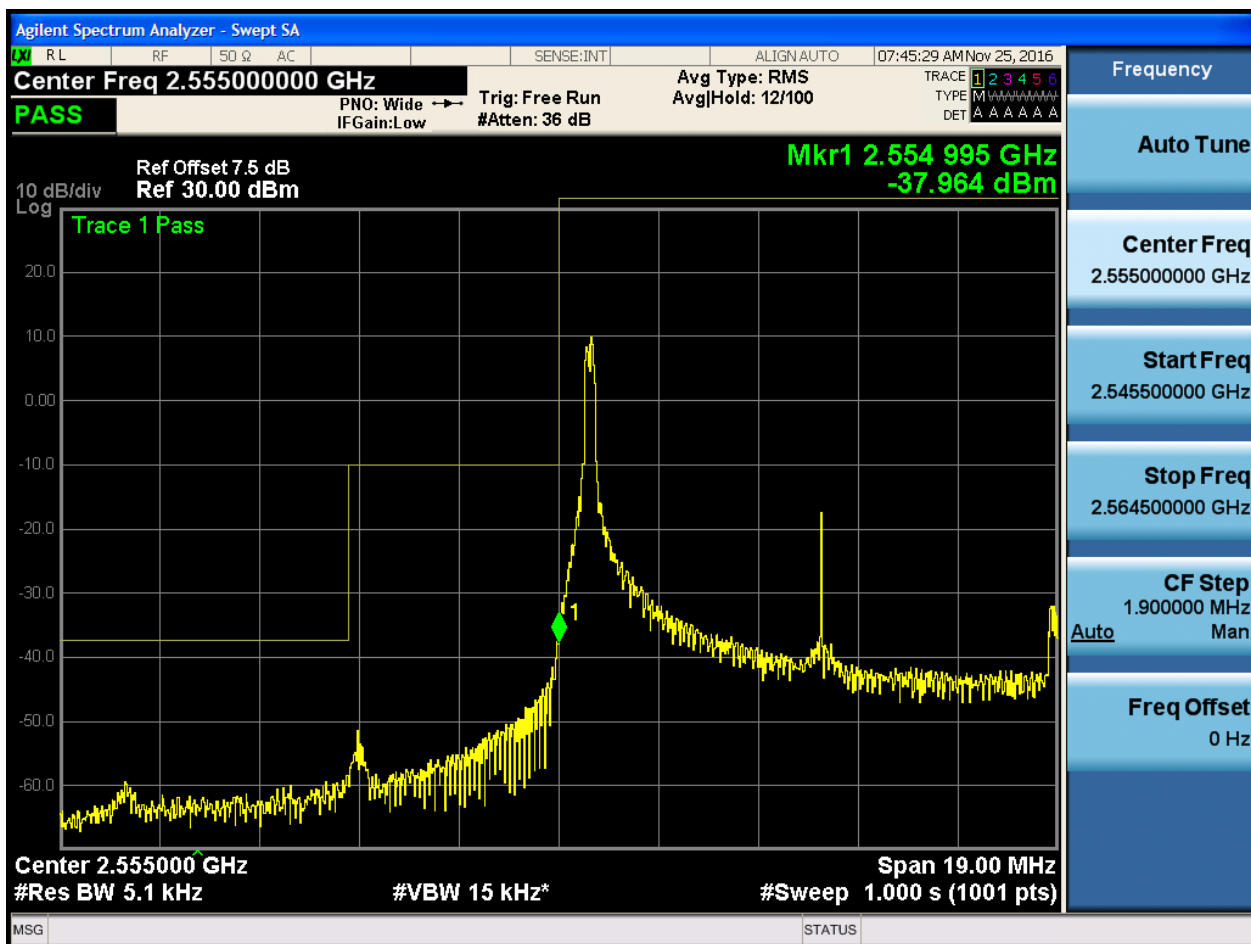




5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.555000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-54.137 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz
#Res BW 5.1 kHz

#VBW 15 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545500000 GHz

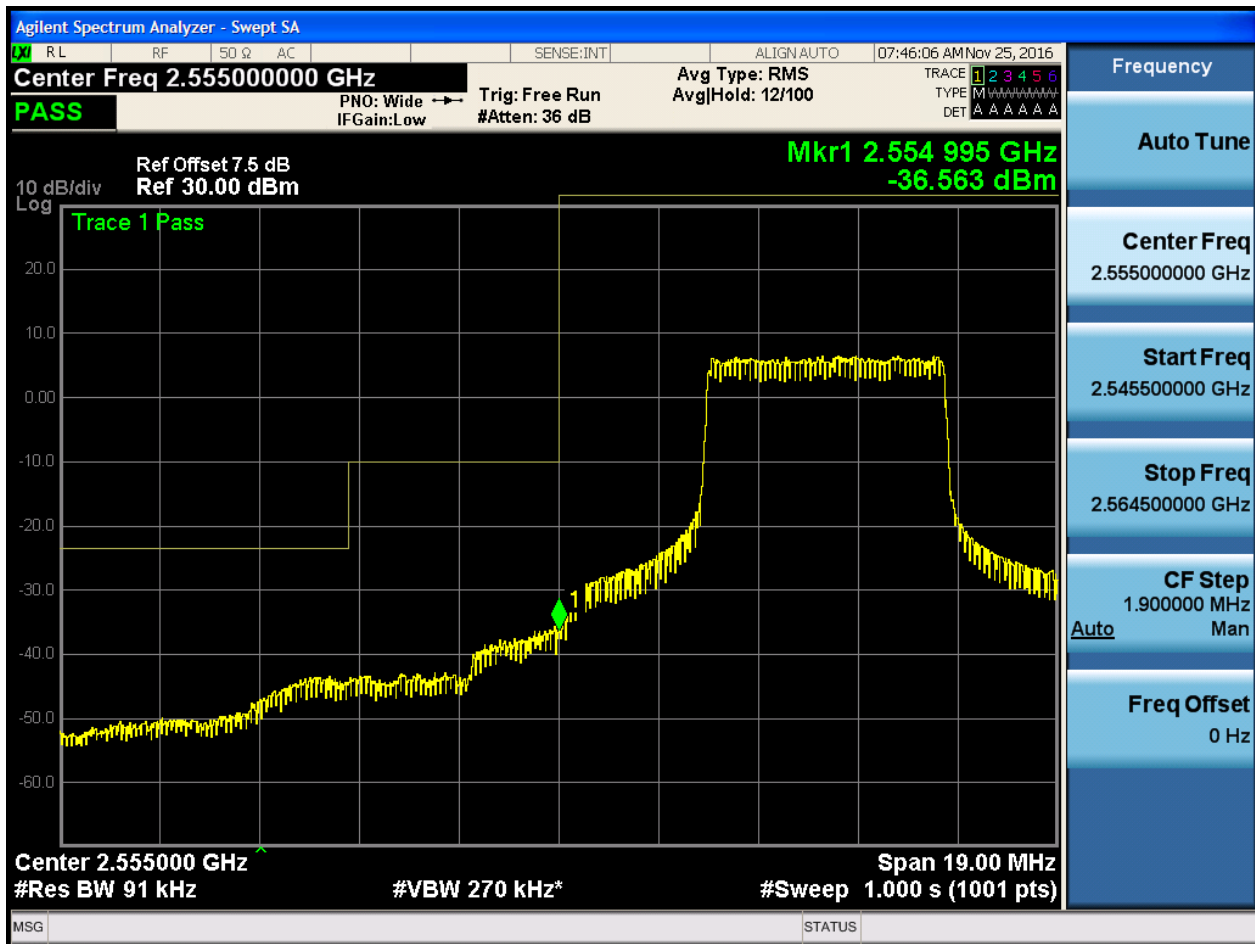
Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

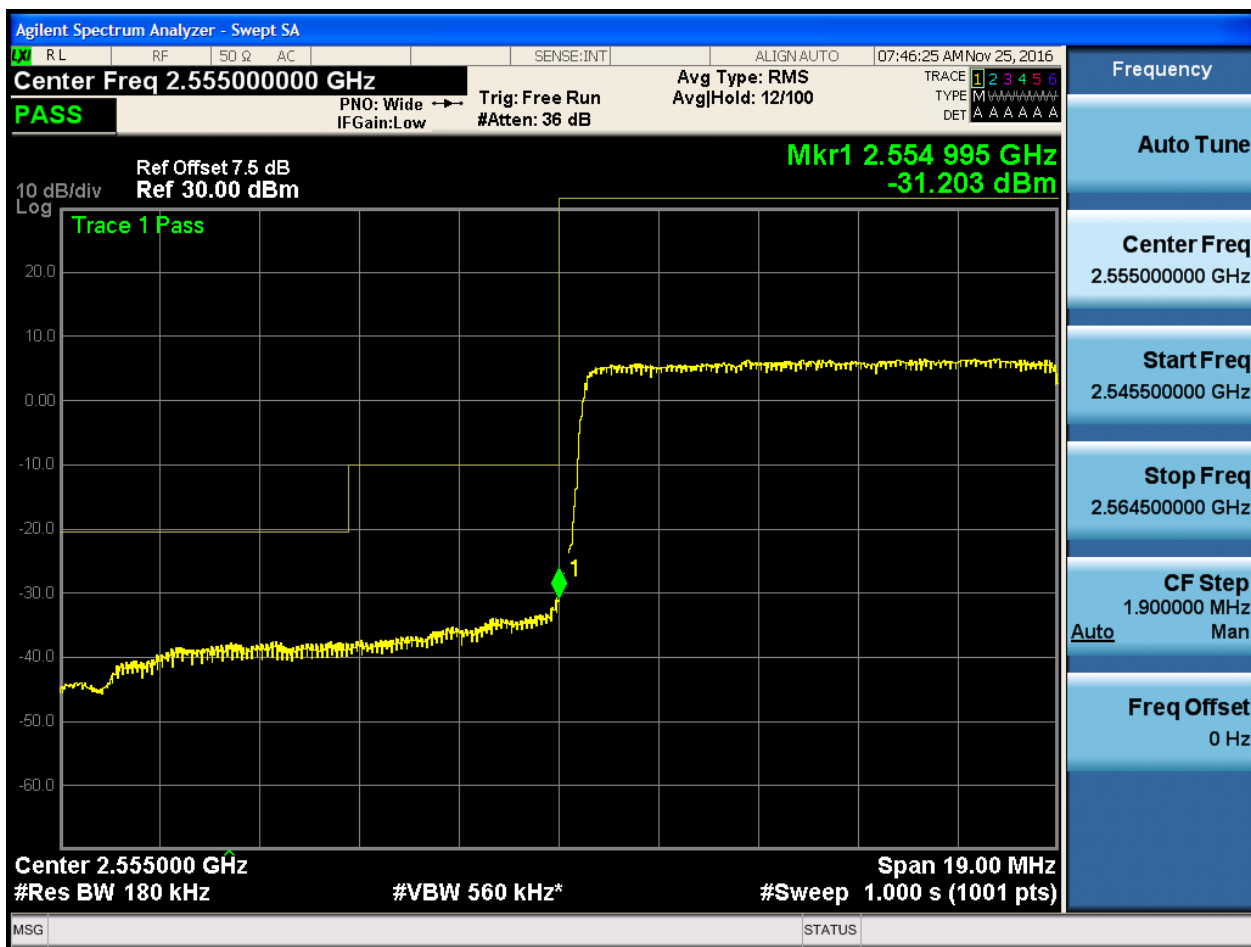


5.1.1.1.2.1.3 Test RB = RB25#13





5.1.1.1.2.1.4 Test RB = RB50#0





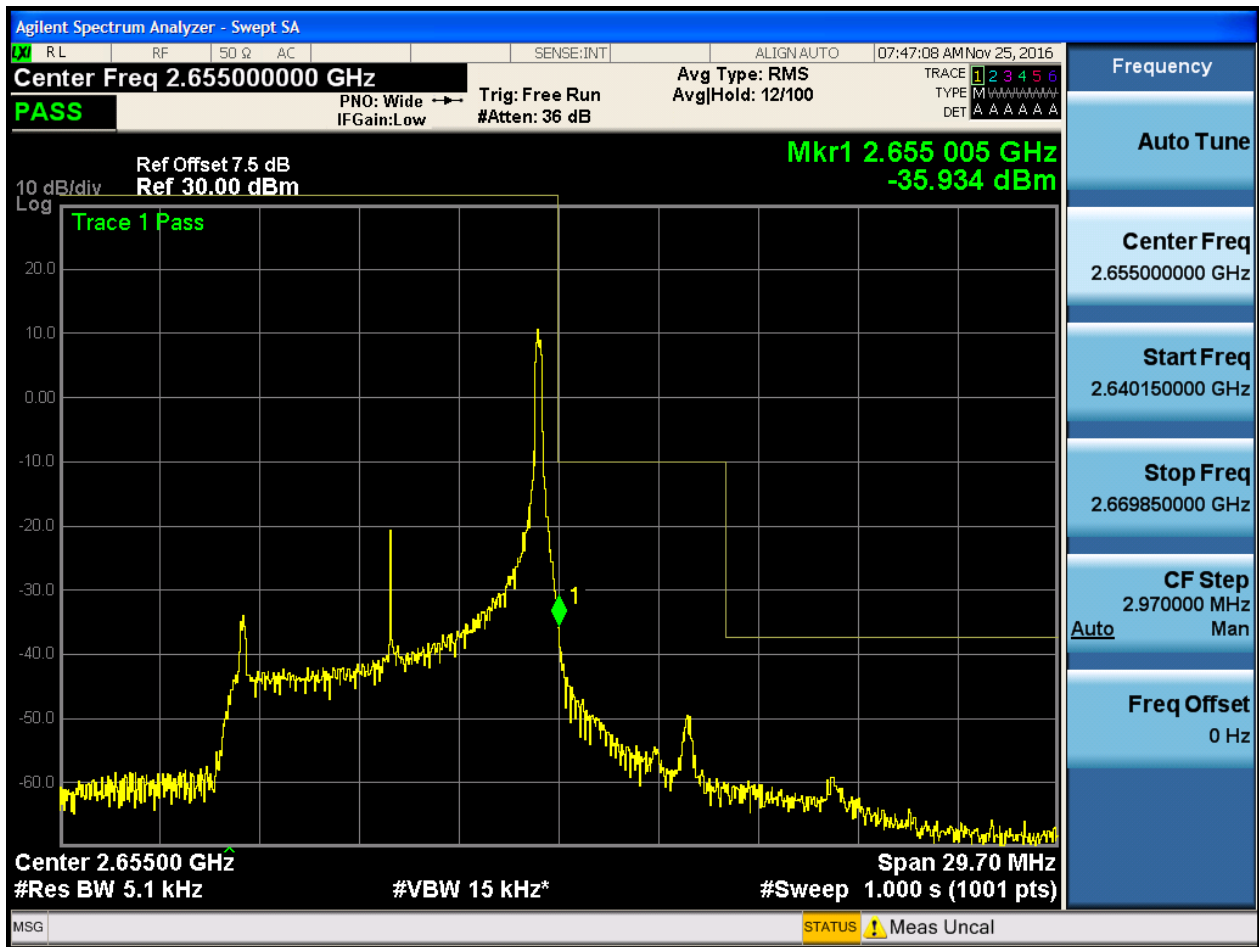
5.1.1.1.2.2 Test Channel = HCH

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





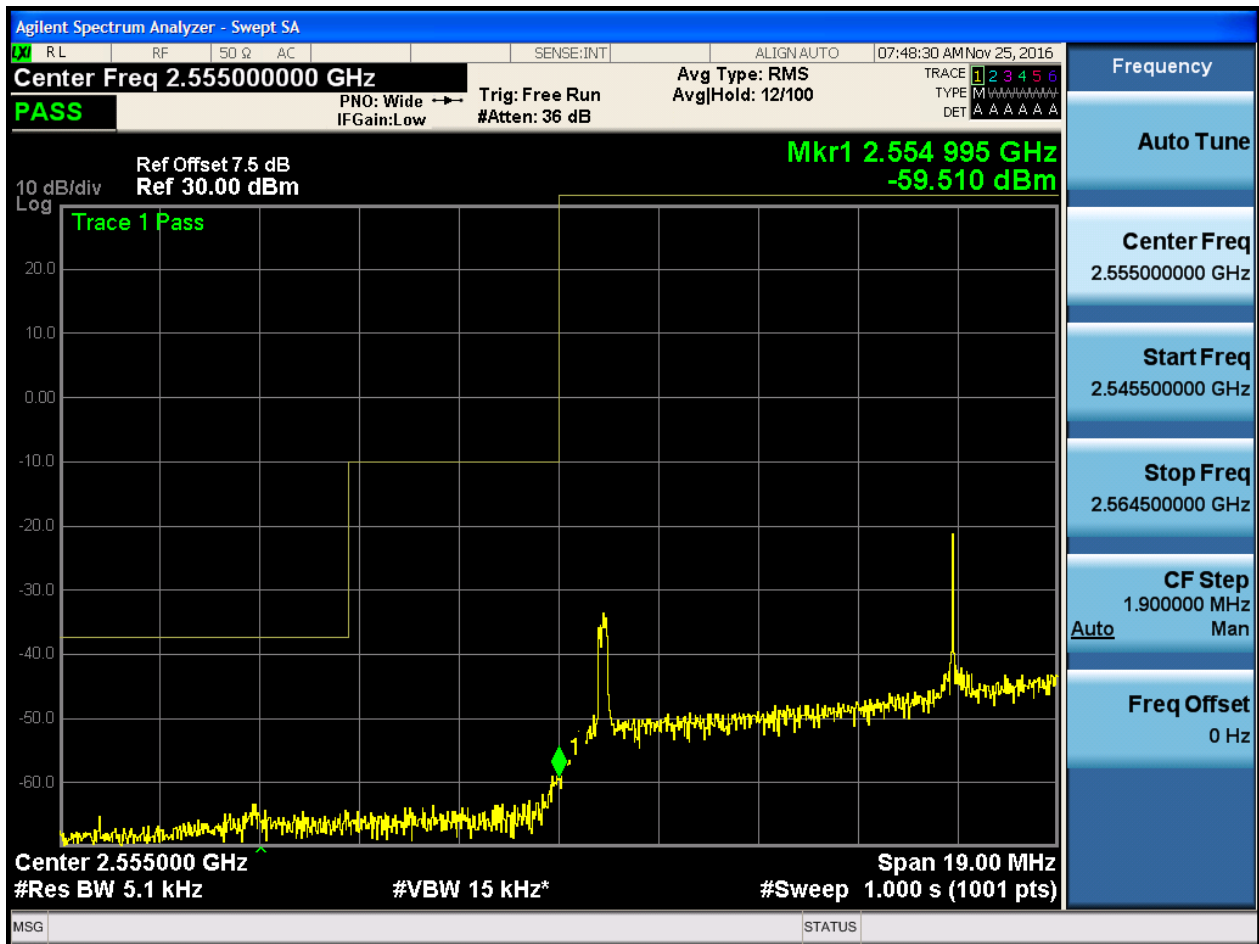
5.1.1.1.2.2.4 Test RB = RB50#0







5.1.1.1.3.1.2 Test RB = RB1#74



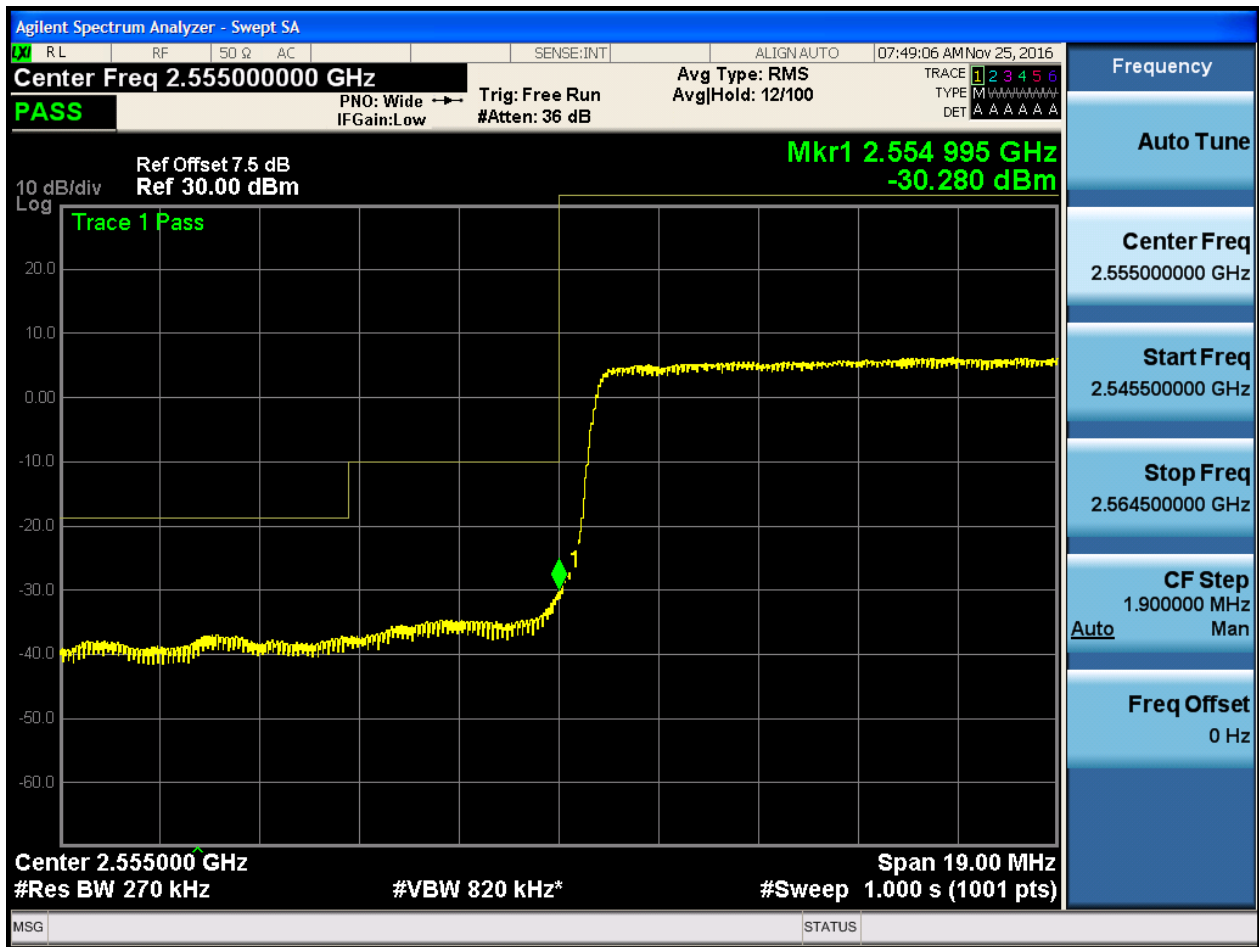


5.1.1.1.3.1.3 Test RB = RB36#18





5.1.1.1.3.1.4 Test RB = RB75#0





5.1.1.1.3.2 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 07:49:50 AM Nov 25, 2016

Center Freq 2.65500000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.655 01 GHz
-35.107 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.65500 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*
Span 39.28 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS Meas Uncal

Frequency

Auto Tune

Center Freq
2.65500000 GHz

Start Freq
2.635360000 GHz

Stop Freq
2.674640000 GHz

CF Step
3.928000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

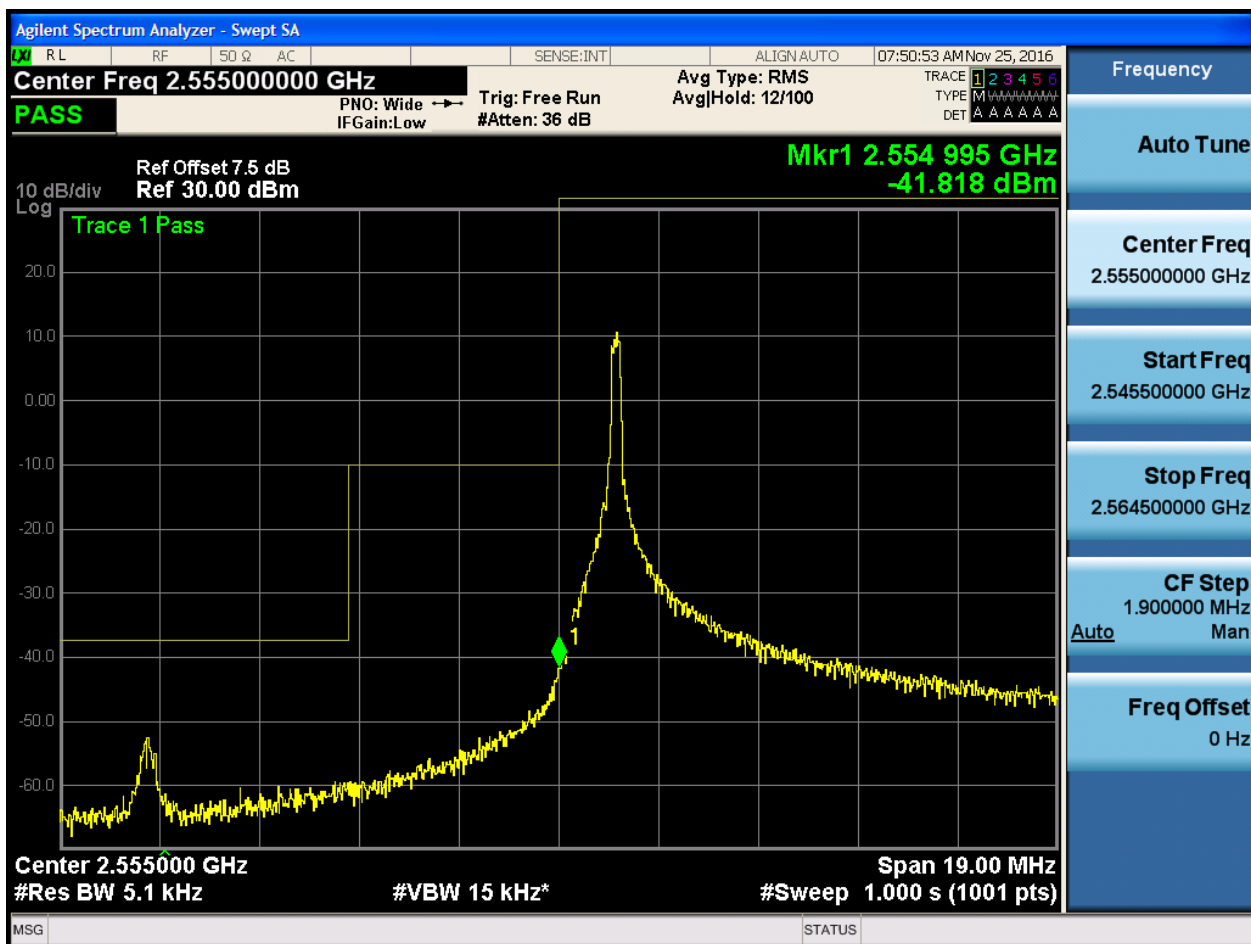




5.1.1.1.4 Test Bandwidth = 20

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

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-59.836 dBm

Trace 1 Pass

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

Span 19.00 MHz
#Sweep 1.000 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
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:51:30 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#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 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-38.266 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz
#Res BW 180 kHz #VBW 560 kHz* Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545500000 GHz

Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:51:49 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
#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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-32.544 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz
#Res BW 360 kHz

#VBW 1.1 MHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545500000 GHz

Stop Freq
2.564500000 GHz

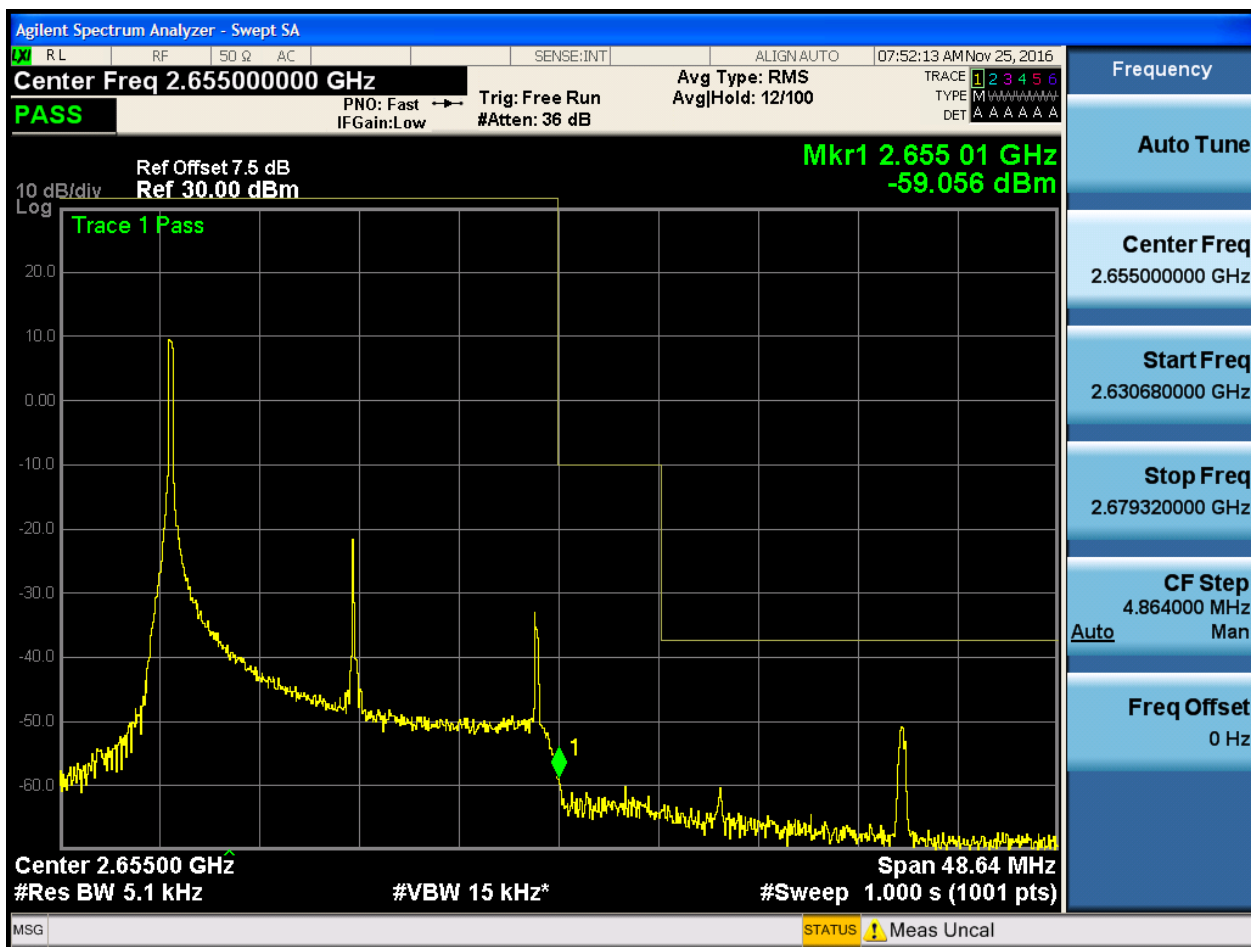
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



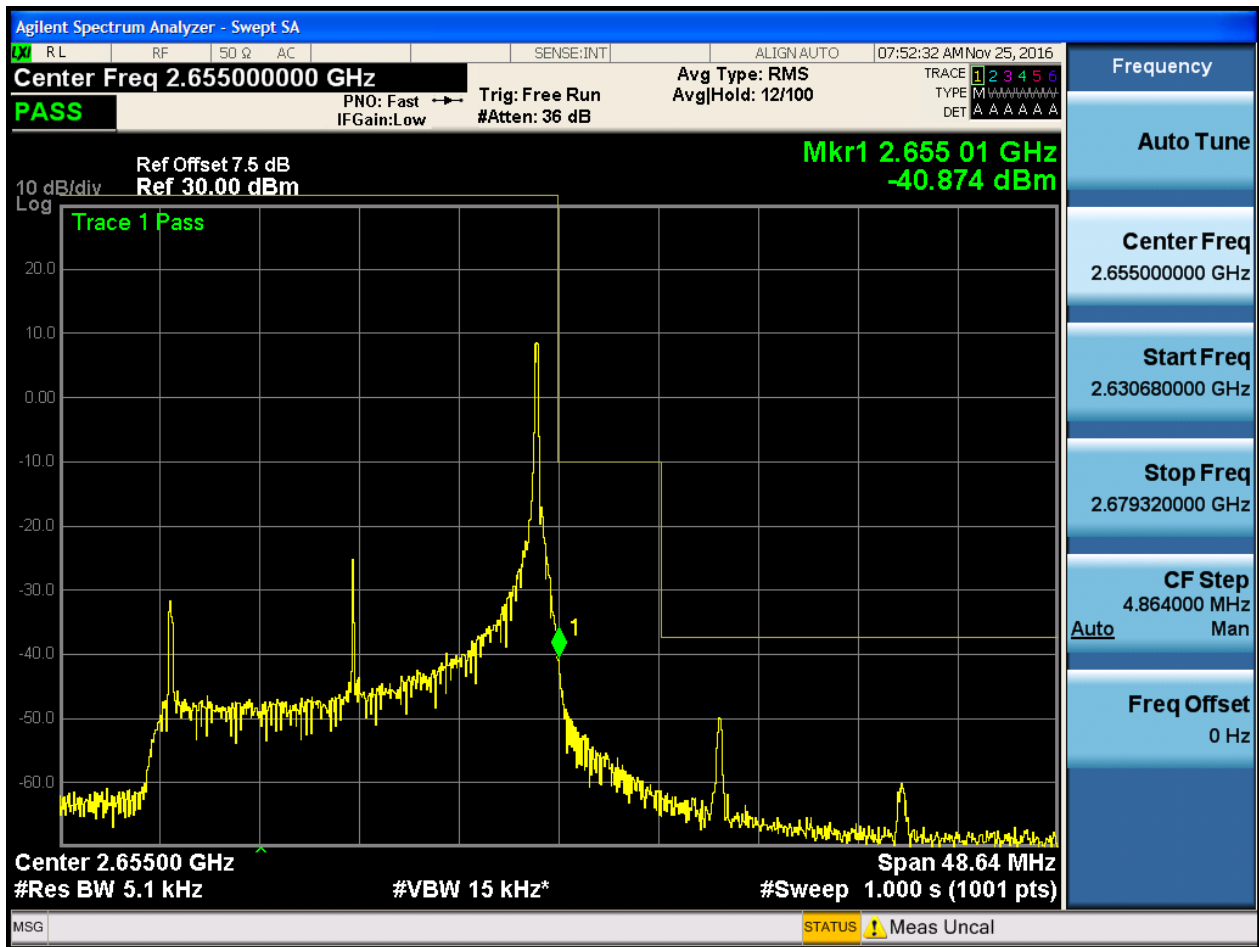
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



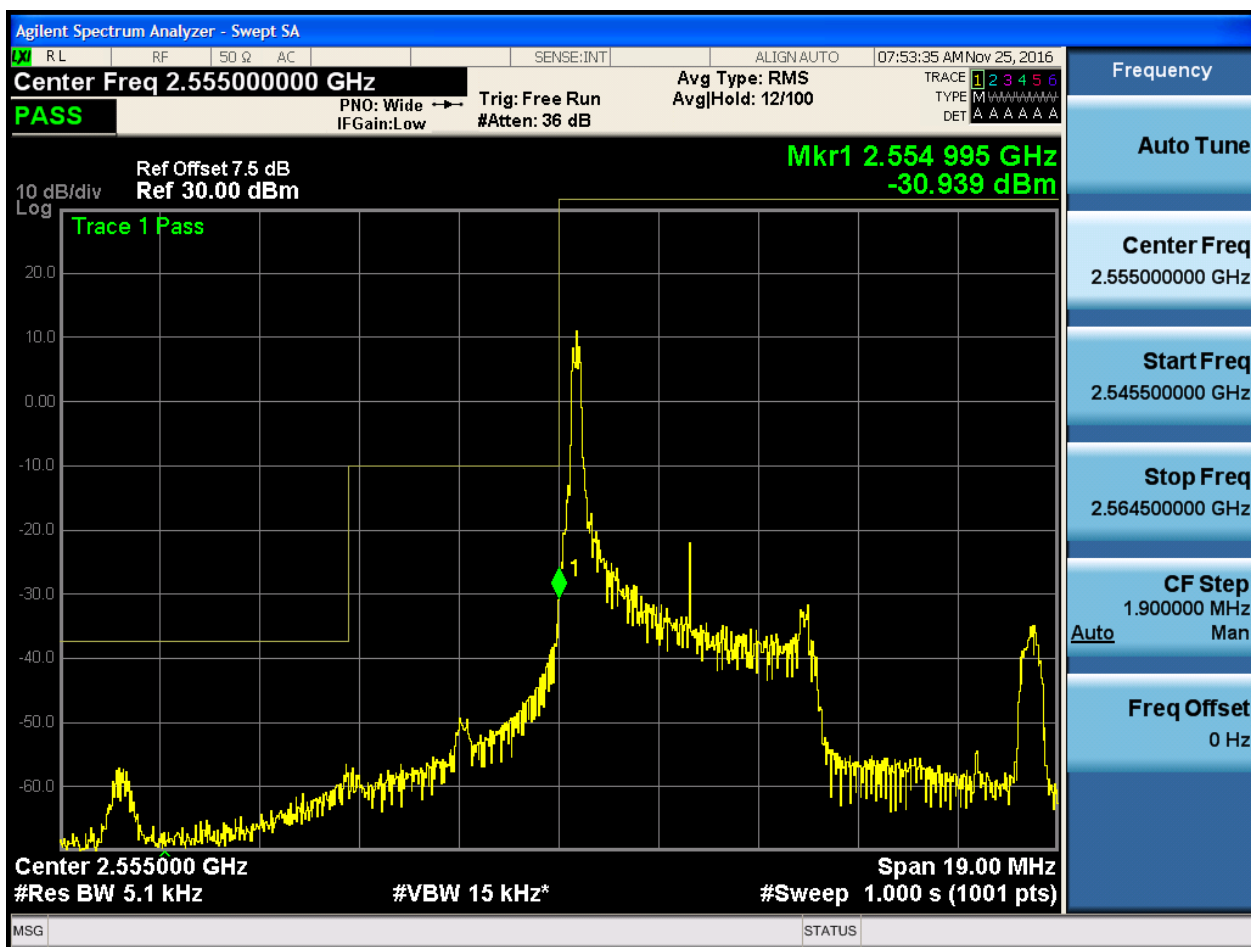


5.1.1.2 Test Mode = LTE/TM2

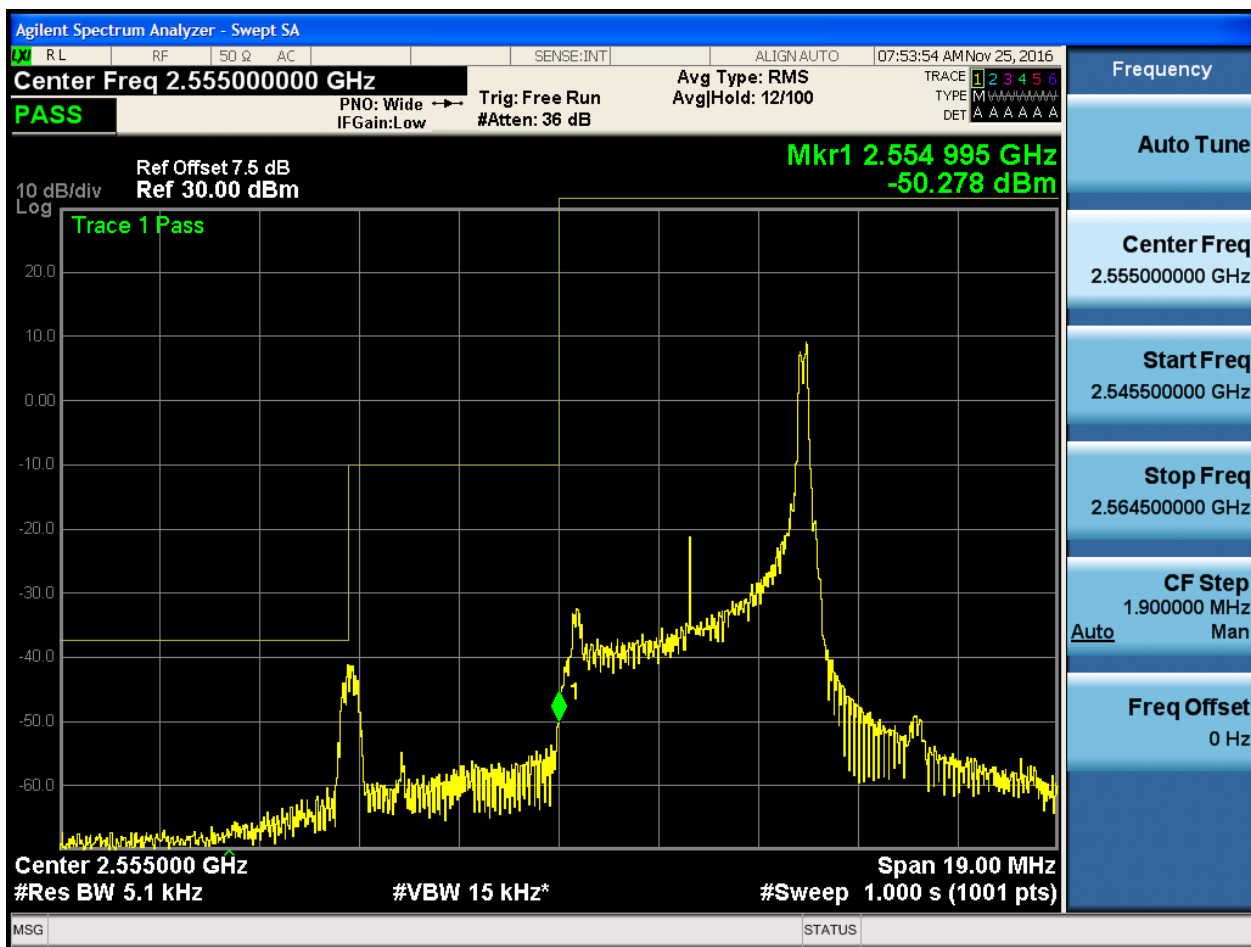
5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0

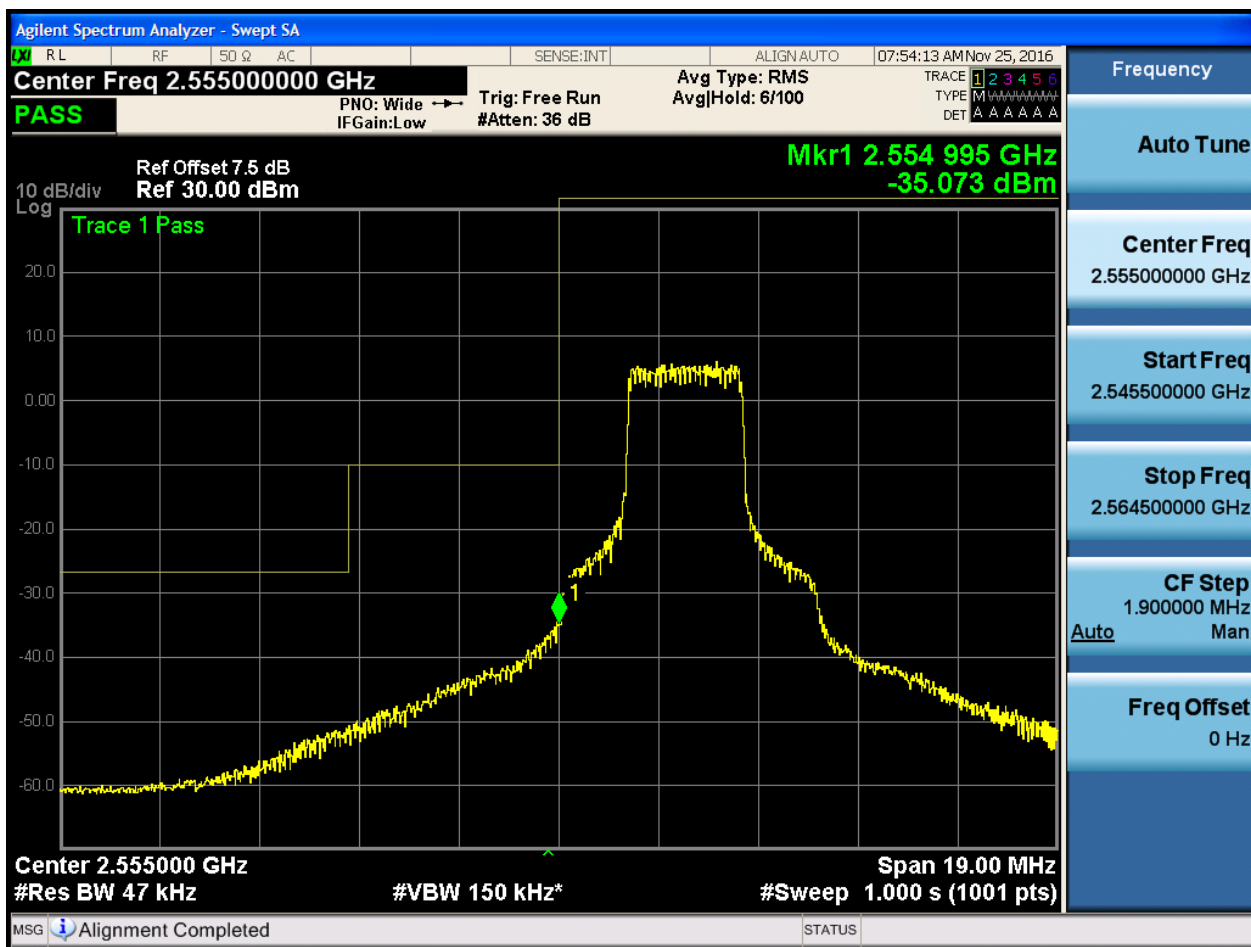


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:54:31 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
 PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
 #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 7.5 dB
 Ref 30.00 dBm

Mkr1 2.554 995 GHz
 -27.596 dBm

10 dB/div
 Log

Trace 1 Pass

Center 2.555000 GHz
 #Res BW 91 kHz #VBW 270 kHz* Span 19.00 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
 2.555000000 GHz

Start Freq
 2.545500000 GHz

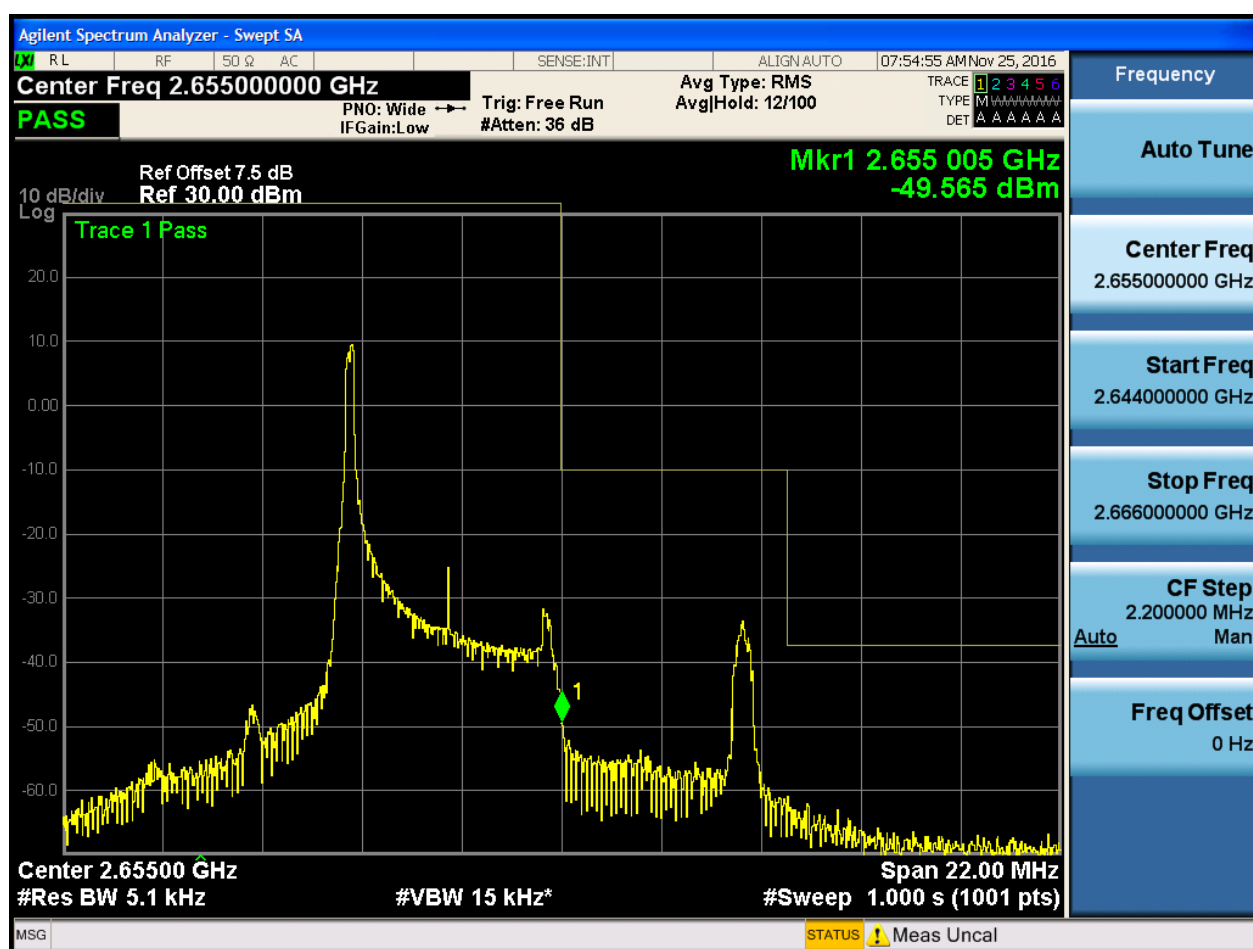
Stop Freq
 2.564500000 GHz

CF Step
 1.900000 MHz
 Auto Man

Freq Offset
 0 Hz

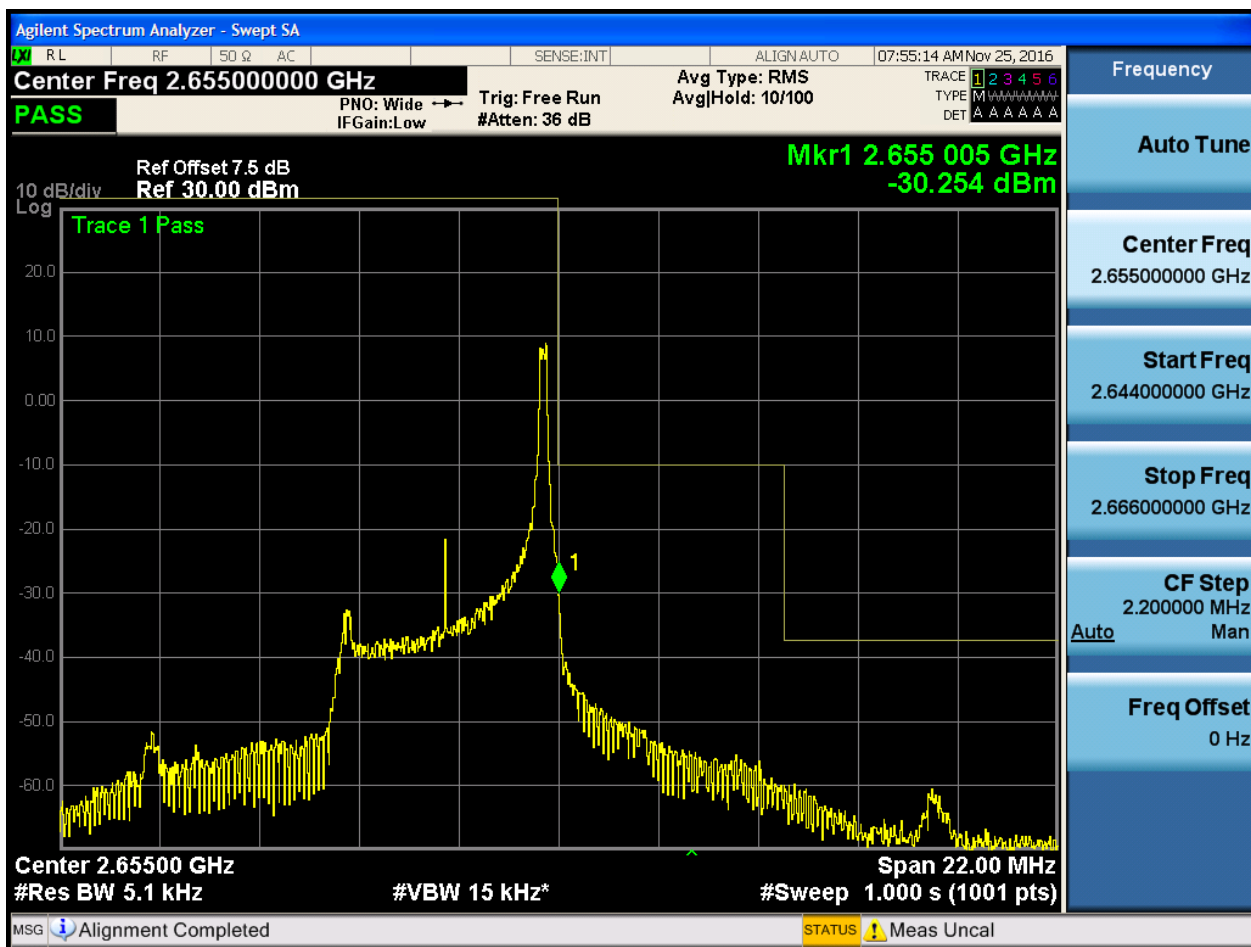
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:55:33 AM Nov 25, 2016

Center Freq 2.655000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
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 7.5 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-36.444 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.65500 GHz
#Res BW 47 kHz

#VBW 150 kHz*

Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.655000000 GHz

Start Freq
2.644000000 GHz

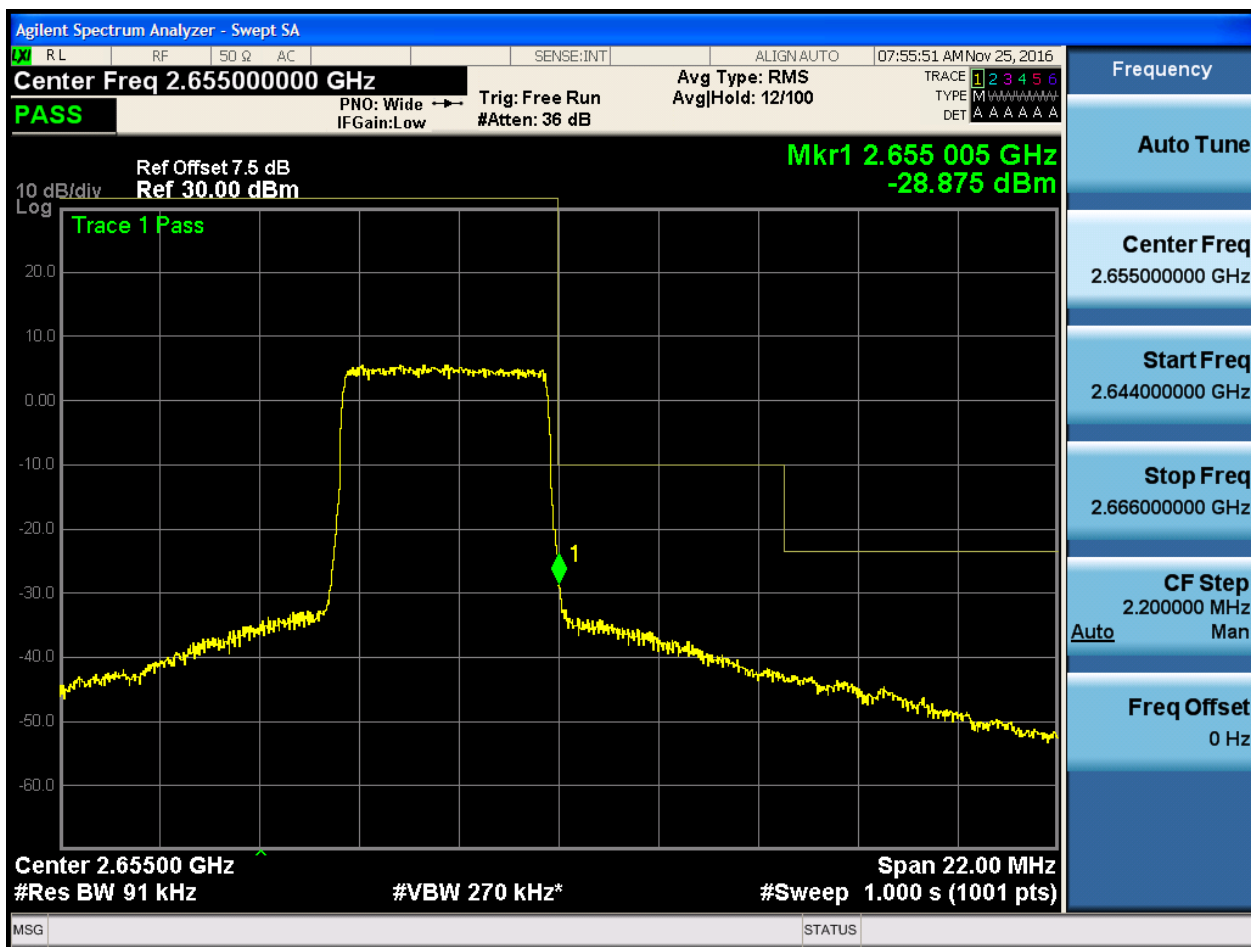
Stop Freq
2.666000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.1.2.4 Test RB = RB25#0

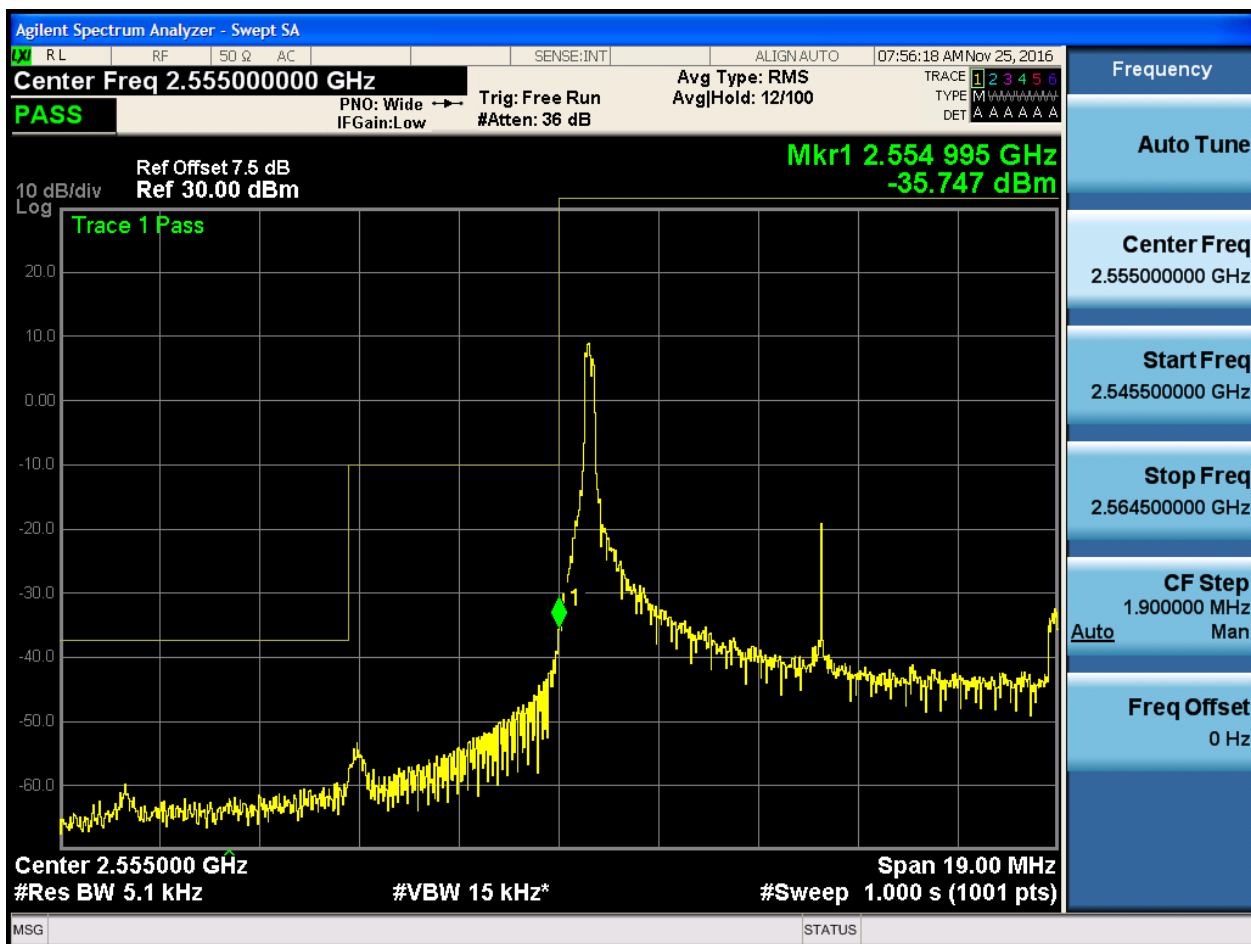




5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:56:37 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run AvgHold: 12/100
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 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-57.494 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz Span 19.00 MHz
#Res BW 5.1 kHz #VBW 15 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545500000 GHz

Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:56:55 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-37.465 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz Span 19.00 MHz
#Res BW 91 kHz #VBW 270 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545000000 GHz

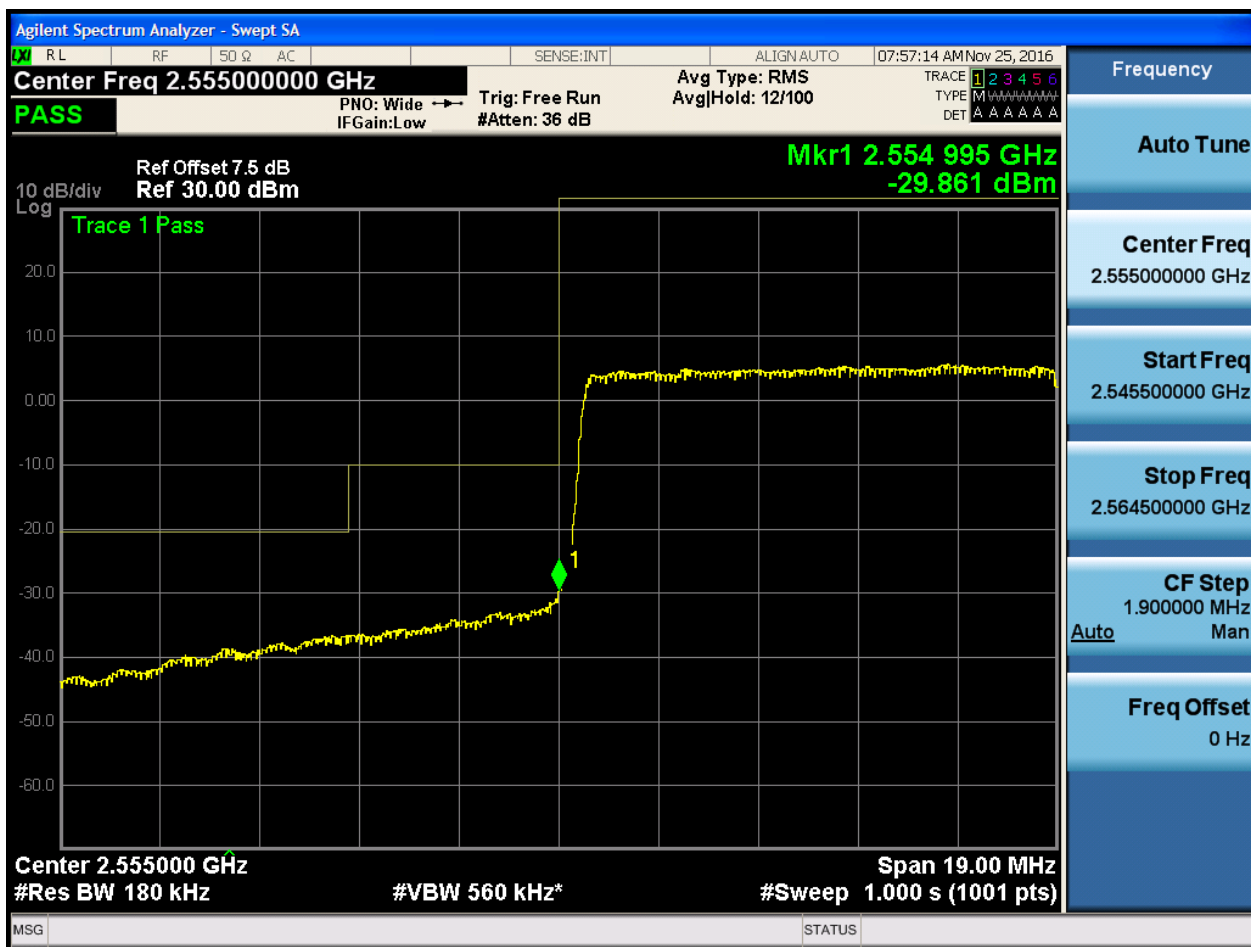
Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



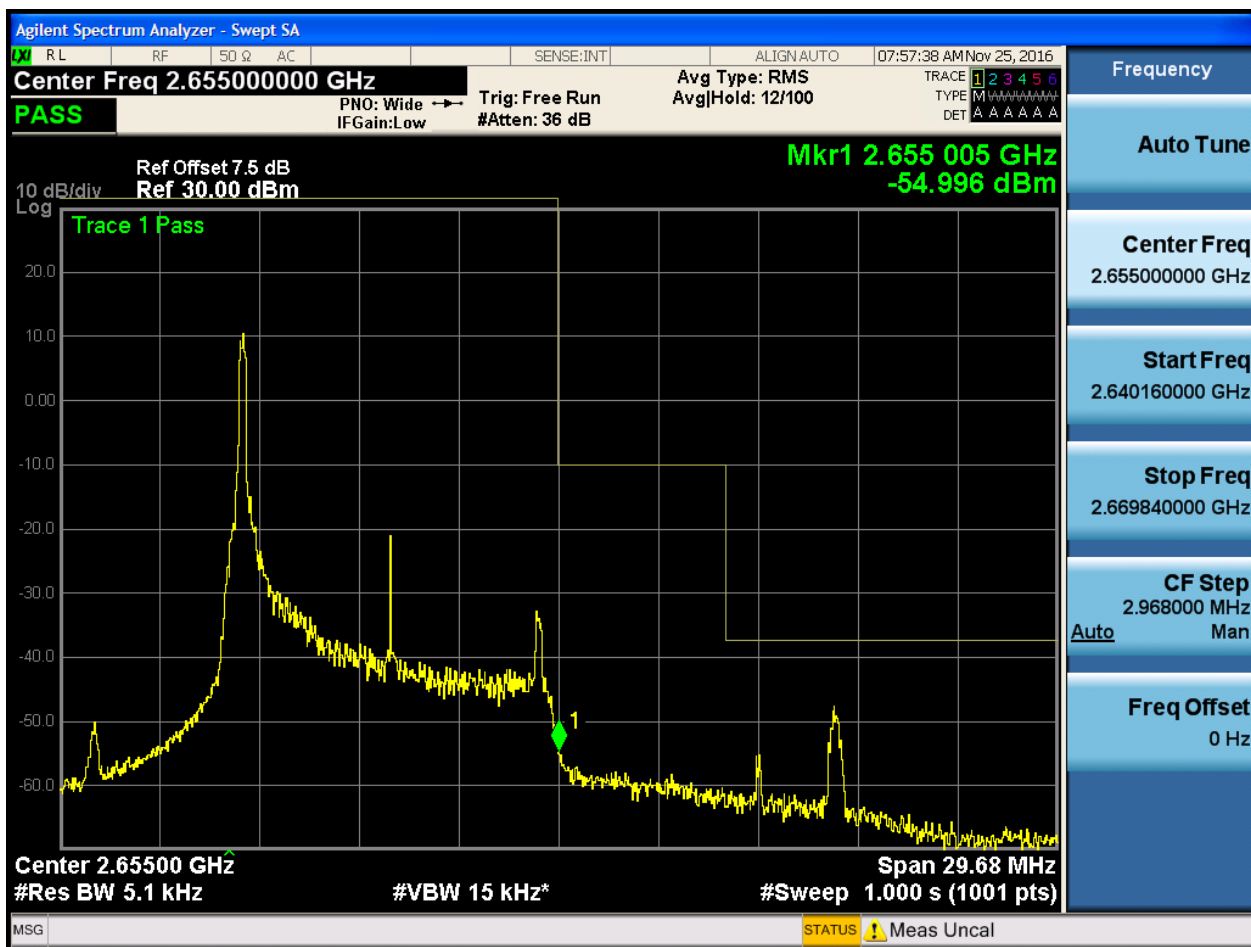
5.1.1.2.2.1.4 Test RB = RB50#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:57:57 AM Nov 25, 2016

Center Freq 2.655000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain: Low Trig: Free Run AvgHold: 12/100
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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-36.097 dBm

10 dB/div
Log

Trace 1 Pass

The spectrum analyzer display shows a signal trace with a peak at 2.655 GHz. The peak is labeled 'Mkr1 2.655 005 GHz -36.097 dBm'. The trace is labeled 'Trace 1 Pass'. The frequency range is from 2.640160000 GHz to 2.669840000 GHz. The center frequency is 2.655000000 GHz. The span is 29.68 MHz. The resolution bandwidth is 5.1 kHz. The video bandwidth is 15 kHz. The sweep time is 1.000 s (1001 pts). The reference level is 30.00 dBm. The reference offset is 7.5 dB. The peak is at -36.097 dBm. The trace is labeled 'Trace 1 Pass'.

Center Freq 2.655000000 GHz
Start Freq 2.640160000 GHz
Stop Freq 2.669840000 GHz
CF Step 2.968000 MHz
Auto Man
Freq Offset 0 Hz

Center 2.65500 GHz
#Res BW 5.1 kHz
#VBW 15 kHz*
Span 29.68 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS Meas Uncal



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:58:15 AM Nov 25, 2016

Center Freq 2.655000000 GHz Avg Type: RMS Trg: Free Run
#Res BW 91 kHz IF Gain: Low #Atten: 36 dB

PASS PNO: Wide TYPE M DET A A A A A A

Ref Offset 7.5 dB Mkr1 2.655 005 GHz
Ref 30.00 dBm -36.668 dBm

10 dB/div Log

Trace 1 Pass

Center 2.65500 GHz Span 29.68 MHz
#Res BW 91 kHz #VBW 270 kHz* #Sweep 1.000 s (1001 pts)

MSG Alignment Completed STATUS

Frequency

Auto Tune

Center Freq
2.655000000 GHz

Start Freq
2.640160000 GHz

Stop Freq
2.669840000 GHz

CF Step
2.968000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:58:34 AM Nov 25, 2016

Center Freq 2.655000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 7.5 dB
Ref 30.00 dBm

Mkr1 2.655 005 GHz
-30.329 dBm

10 dB/div
Log

Trace 1 Pass

The spectrum analyzer trace shows a signal at 2.655 GHz with a sharp drop at 2.66984 GHz. The signal level is approximately -30.3 dBm at the drop point. The trace is labeled 'Trace 1 Pass'.

Center Freq 2.655000000 GHz
Start Freq 2.640160000 GHz
Stop Freq 2.669840000 GHz
CF Step 2.968000 MHz
Auto Man
Freq Offset 0 Hz

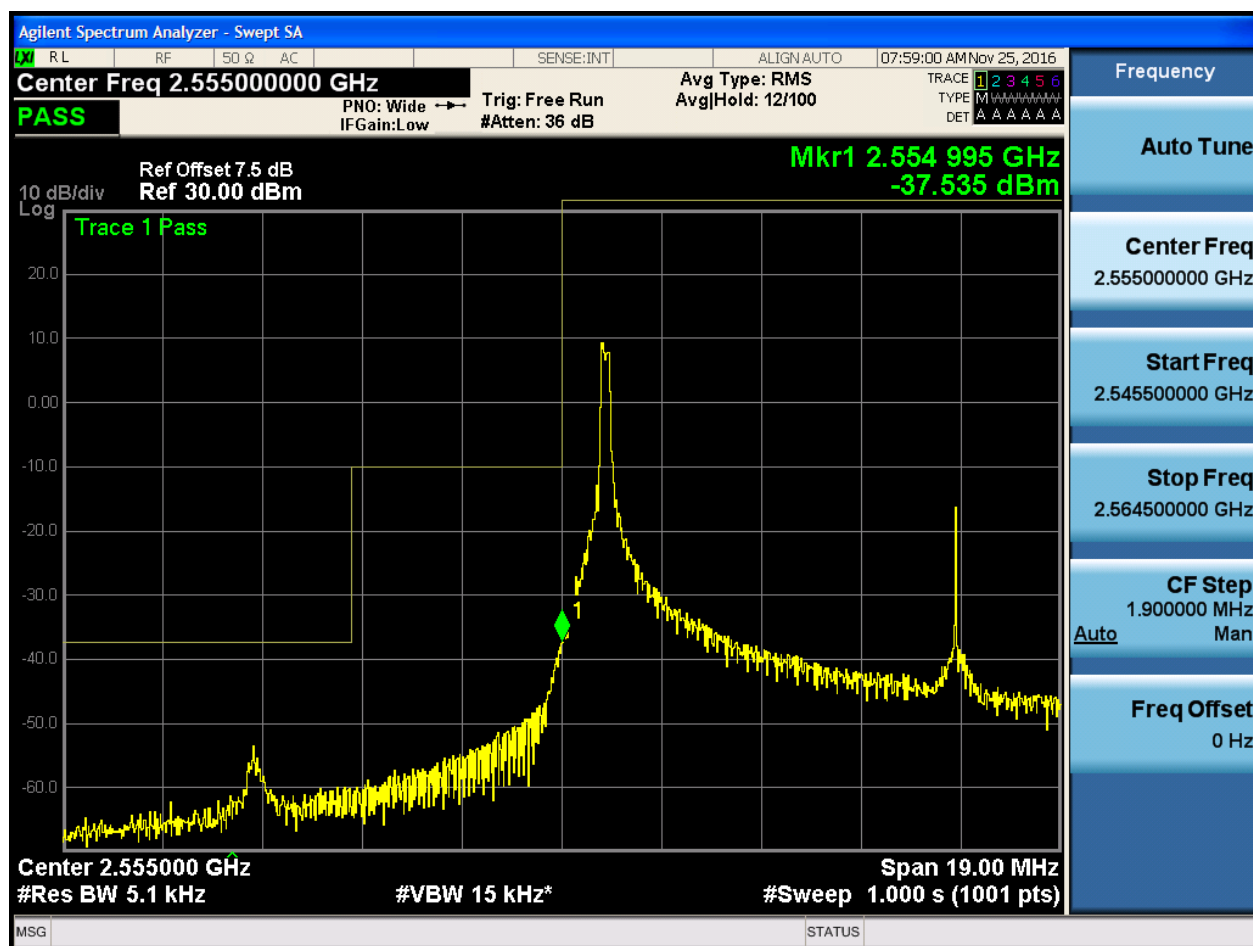
Center 2.65500 GHz
#Res BW 180 kHz
#VBW 560 kHz*
Span 29.68 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:59:19 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-59.860 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz Span 19.00 MHz
#Res BW 5.1 kHz #VBW 15 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545000000 GHz

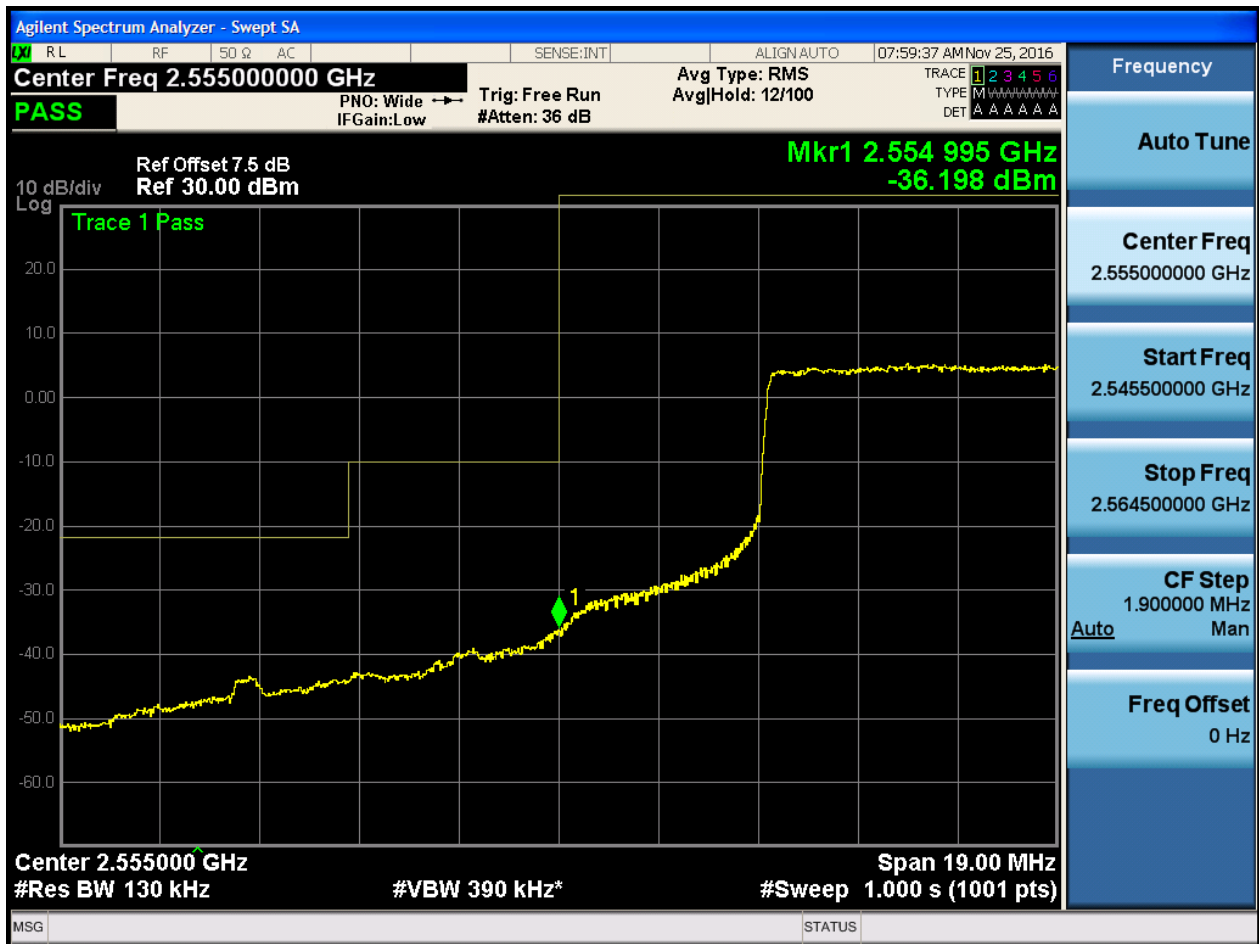
Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

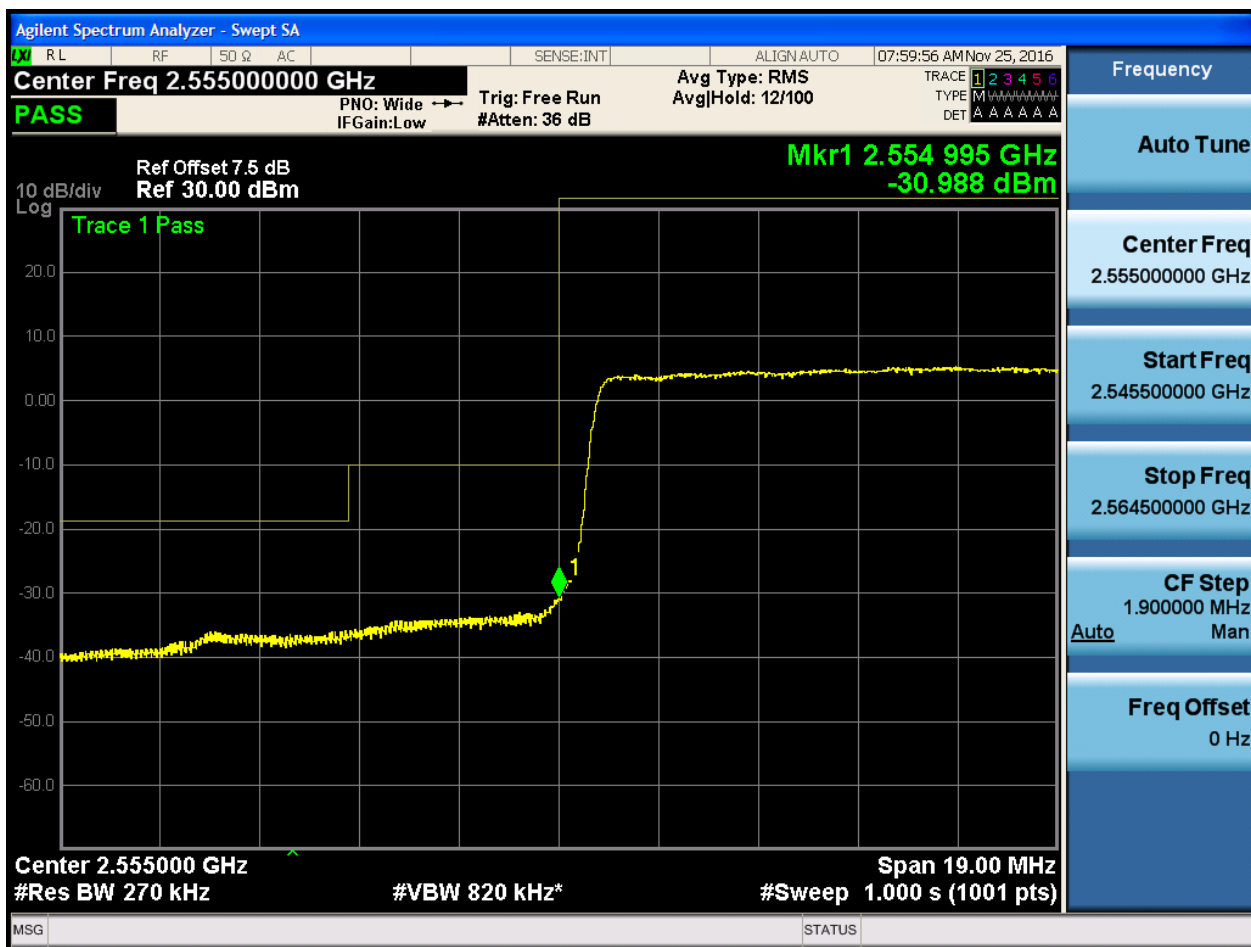


5.1.1.2.3.1.3 Test RB = RB36#18





5.1.1.2.3.1.4 Test RB = RB75#0



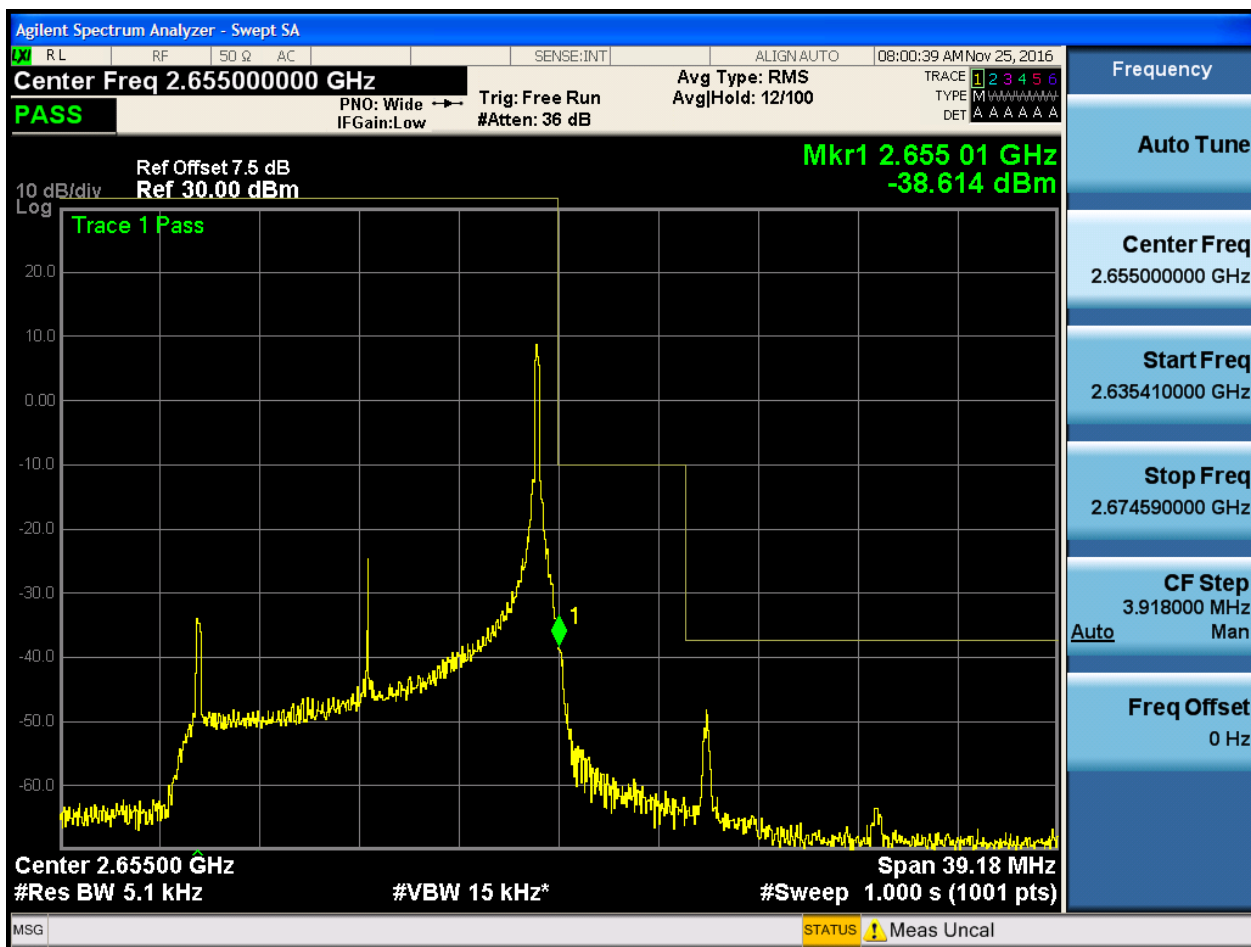


5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0

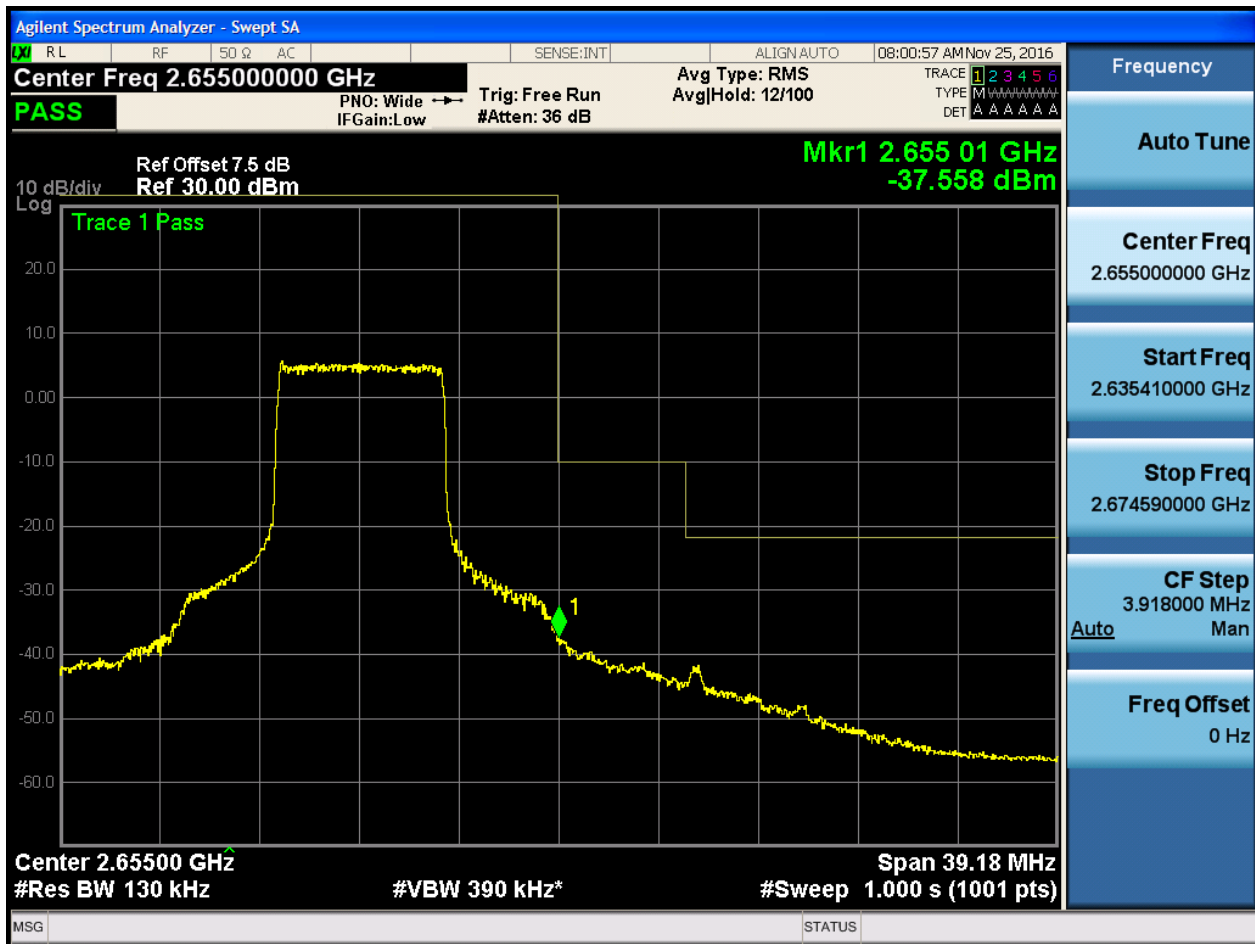


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

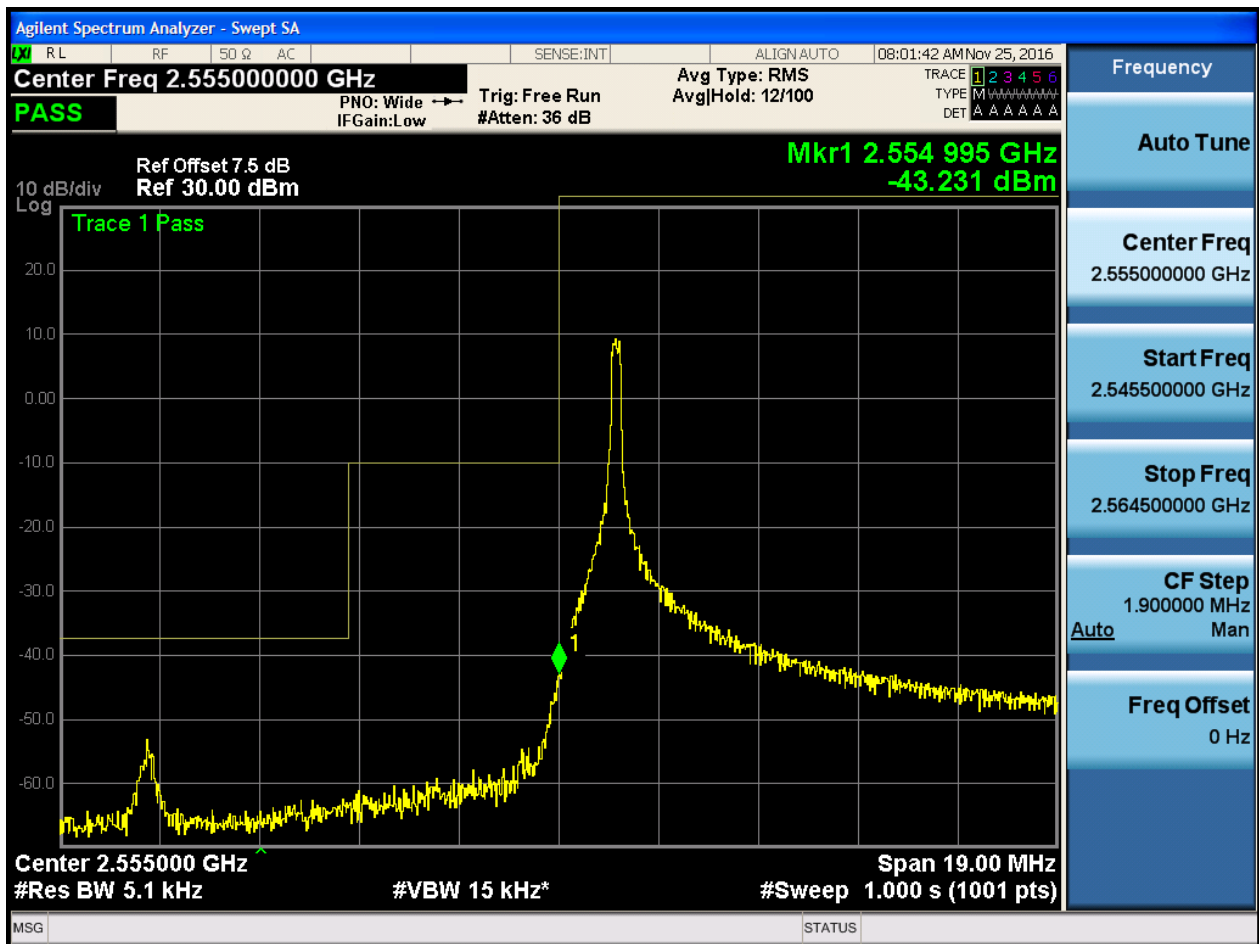




5.1.1.2.4 Test Bandwidth = 20

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 08:02:01 AM Nov 25, 2016

Center Freq 2.555000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.554 995 GHz
-61.203 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.555000 GHz Span 19.00 MHz
#Res BW 5.1 kHz #VBW 15 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.555000000 GHz

Start Freq
2.545000000 GHz

Stop Freq
2.564500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.4.1.3 Test RB = RB50#25

