



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
BAND7	LTE/TM1	5	LCH	RB1#0	21.84	21.41	33	PASS
				RB1#13	22.1	21.67	33	PASS
				RB1#24	21.59	21.16	33	PASS
				RB12#0	21.26	20.83	33	PASS
				RB12#6	21.29	20.86	33	PASS
				RB12#13	21.11	20.68	33	PASS
			MCH	RB25#0	21.15	20.72	33	PASS
				RB1#0	21.83	21.4	33	PASS
				RB1#13	22.02	21.59	33	PASS
				RB1#24	21.66	21.23	33	PASS
				RB12#0	21.18	20.75	33	PASS
				RB12#6	21.28	20.85	33	PASS
				RB12#13	21.04	20.61	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#0	21.1	20.67	33	PASS
			HCH	RB1#0	21.64	21.21	33	PASS
				RB1#13	21.84	21.41	33	PASS
				RB1#24	21.49	21.06	33	PASS
				RB12#0	21.02	20.59	33	PASS
				RB12#6	21.04	20.61	33	PASS
				RB12#13	20.88	20.45	33	PASS
				RB25#0	20.93	20.5	33	PASS
		10	LCH	RB1#0	21.75	21.32	33	PASS
				RB1#25	22.09	21.66	33	PASS
				RB1#49	21.5	21.07	33	PASS
				RB25#0	21.29	20.86	33	PASS
				RB25#13	21.25	20.82	33	PASS
				RB25#25	21.12	20.69	33	PASS
				RB50#0	21.48	21.05	33	PASS
			MCH	RB1#0	21.51	21.08	33	PASS
				RB1#25	21.96	21.53	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#49	21.79	21.36	33	PASS
				RB25#0	20.99	20.56	33	PASS
				RB25#13	21.17	20.74	33	PASS
				RB25#25	21.13	20.7	33	PASS
				RB50#0	21.12	20.69	33	PASS
			HCH	RB1#0	21.48	21.05	33	PASS
				RB1#25	21.66	21.23	33	PASS
				RB1#49	21.39	20.96	33	PASS
				RB25#0	20.88	20.45	33	PASS
				RB25#13	20.9	20.47	33	PASS
				RB25#25	20.83	20.4	33	PASS
				RB50#0	20.87	20.44	33	PASS
		15	LCH	RB1#0	21.55	21.12	33	PASS
				RB1#38	22.1	21.67	33	PASS
				RB1#74	21.02	20.59	33	PASS
				RB36#0	21.31	20.88	33	PASS
				RB36#18	21.13	20.7	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB36#39	20.66	20.23	33	PASS
				RB75#0	21.11	20.68	33	PASS
			MCH	RB1#0	21.18	20.75	33	PASS
				RB1#38	21.94	21.51	33	PASS
				RB1#74	21.64	21.21	33	PASS
				RB36#0	20.87	20.44	33	PASS
				RB36#18	21.11	20.68	33	PASS
				RB36#39	21.13	20.7	33	PASS
				RB75#0	20.99	20.56	33	PASS
			HCH	RB1#0	21.32	20.89	33	PASS
				RB1#38	21.67	21.24	33	PASS
				RB1#74	21.21	20.78	33	PASS
				RB36#0	20.77	20.34	33	PASS
				RB36#18	20.9	20.47	33	PASS
				RB36#39	20.75	20.32	33	PASS
				RB75#0	20.96	20.53	33	PASS
		20	LCH	RB1#0	21.88	21.45	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#50	21.78	21.35	33	PASS
				RB1#99	21.21	20.78	33	PASS
				RB50#0	21.31	20.88	33	PASS
				RB50#25	20.82	20.39	33	PASS
				RB50#50	20.54	20.11	33	PASS
				RB100#0	21.05	20.62	33	PASS
			MCH	RB1#0	21.3	20.87	33	PASS
				RB1#50	21.99	21.56	33	PASS
				RB1#99	21.77	21.34	33	PASS
				RB50#0	20.81	20.38	33	PASS
				RB50#25	21.14	20.71	33	PASS
				RB50#50	21.4	20.97	33	PASS
				RB100#0	21.1	20.67	33	PASS
			HCH	RB1#0	21.85	21.42	33	PASS
				RB1#50	21.66	21.23	33	PASS
				RB1#99	21.52	21.09	33	PASS
				RB50#0	21.21	20.78	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
	LTE/TM2	5		RB50#25	21.12	20.69	33	PASS
				RB50#50	20.8	20.37	33	PASS
				RB100#0	21.12	20.69	33	PASS
			LCH	RB1#0	21.25	20.82	33	PASS
				RB1#13	21.51	21.08	33	PASS
				RB1#24	20.95	20.52	33	PASS
				RB12#0	20.81	20.38	33	PASS
				RB12#6	20.85	20.42	33	PASS
				RB12#13	20.58	20.15	33	PASS
				RB25#0	20.66	20.23	33	PASS
			MCH	RB1#0	21.12	20.69	33	PASS
				RB1#13	21.33	20.9	33	PASS
				RB1#24	21.08	20.65	33	PASS
				RB12#0	20.6	20.17	33	PASS
				RB12#6	20.72	20.29	33	PASS
				RB12#13	20.45	20.02	33	PASS
				RB25#0	20.61	20.18	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	20.95	20.52	33	PASS
				RB1#13	21.14	20.71	33	PASS
				RB1#24	20.79	20.36	33	PASS
				RB12#0	20.44	20.01	33	PASS
				RB12#6	20.48	20.05	33	PASS
				RB12#13	20.33	19.9	33	PASS
				RB25#0	20.39	19.96	33	PASS
		10	LCH	RB1#0	21.2	20.77	33	PASS
				RB1#25	21.4	20.97	33	PASS
				RB1#49	20.79	20.36	33	PASS
				RB25#0	20.74	20.31	33	PASS
				RB25#13	20.64	20.21	33	PASS
				RB25#25	20.56	20.13	33	PASS
				RB50#0	20.92	20.49	33	PASS
			MCH	RB1#0	20.87	20.44	33	PASS
				RB1#25	21.32	20.89	33	PASS
				RB1#49	21.19	20.76	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.59	20.16	33	PASS
				RB25#13	20.7	20.27	33	PASS
				RB25#25	20.62	20.19	33	PASS
				RB50#0	20.65	20.22	33	PASS
			HCH	RB1#0	20.8	20.37	33	PASS
				RB1#25	21.03	20.6	33	PASS
				RB1#49	20.71	20.28	33	PASS
				RB25#0	20.37	19.94	33	PASS
				RB25#13	20.39	19.96	33	PASS
				RB25#25	20.33	19.9	33	PASS
				RB50#0	20.35	19.92	33	PASS
		15	LCH	RB1#0	20.91	20.48	33	PASS
				RB1#38	21.25	20.82	33	PASS
				RB1#74	20.33	19.9	33	PASS
				RB36#0	20.87	20.44	33	PASS
				RB36#18	20.61	20.18	33	PASS
				RB36#39	20.14	19.71	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB75#0	20.58	20.15	33	PASS
			MCH	RB1#0	20.6	20.17	33	PASS
				RB1#38	21.25	20.82	33	PASS
				RB1#74	20.97	20.54	33	PASS
				RB36#0	20.45	20.02	33	PASS
				RB36#18	20.73	20.3	33	PASS
				RB36#39	20.61	20.18	33	PASS
				RB75#0	20.55	20.12	33	PASS
			HCH	RB1#0	20.62	20.19	33	PASS
				RB1#38	21	20.57	33	PASS
				RB1#74	20.63	20.2	33	PASS
				RB36#0	20.24	19.81	33	PASS
				RB36#18	20.37	19.94	33	PASS
				RB36#39	20.23	19.8	33	PASS
				RB75#0	20.46	20.03	33	PASS
		20	LCH	RB1#0	21.55	21.12	33	PASS
				RB1#50	21.31	20.88	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#99	20.78	20.35	33	PASS
				RB50#0	20.73	20.3	33	PASS
				RB50#25	20.26	19.83	33	PASS
				RB50#50	19.96	19.53	33	PASS
				RB100#0	20.49	20.06	33	PASS
			MCH	RB1#0	21	20.57	33	PASS
				RB1#50	21.5	21.07	33	PASS
				RB1#99	21.4	20.97	33	PASS
				RB50#0	20.34	19.91	33	PASS
				RB50#25	20.71	20.28	33	PASS
				RB50#50	20.84	20.41	33	PASS
				RB100#0	20.63	20.2	33	PASS
			HCH	RB1#0	21.33	20.9	33	PASS
				RB1#50	21.18	20.75	33	PASS
				RB1#99	20.96	20.53	33	PASS
				RB50#0	20.62	20.19	33	PASS
				RB50#25	20.55	20.12	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#50	20.25	19.82	33	PASS
				RB100#0	20.57	20.14	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
BAND7	LTE/TM1	5	LCH	RB1#0	3.82	13	PASS
				RB1#13	3.31	13	PASS
				RB1#24	3.62	13	PASS
				RB12#0	4.59	13	PASS
				RB12#6	4.38	13	PASS
				RB12#13	4.7	13	PASS
				RB25#0	5.32	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#13	4.07	13	PASS
				RB1#24	4.41	13	PASS
				RB12#0	5.34	13	PASS
				RB12#6	5.19	13	PASS
				RB12#13	5.31	13	PASS
				RB25#0	5.67	13	PASS
			HCH	RB1#0	4.11	13	PASS
				RB1#13	3.73	13	PASS
				RB1#24	3.96	13	PASS
				RB12#0	5.09	13	PASS
				RB12#6	5	13	PASS
				RB12#13	5.08	13	PASS
				RB25#0	5.56	13	PASS
		10	LCH	RB1#0	3.52	13	PASS
				RB1#25	3.23	13	PASS
				RB1#49	3.9	13	PASS
				RB25#0	4.85	13	PASS
				RB25#13	4.75	13	PASS
				RB25#25	4.88	13	PASS
				RB50#0	5.35	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#25	4.09	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.33	13	PASS
				RB25#0	5.58	13	PASS
				RB25#13	5.6	13	PASS
				RB25#25	5.49	13	PASS
				RB50#0	6.08	13	PASS
			HCH	RB1#0	4.09	13	PASS
				RB1#25	3.77	13	PASS
				RB1#49	3.94	13	PASS
				RB25#0	5.34	13	PASS
				RB25#13	5.26	13	PASS
				RB25#25	5.26	13	PASS
				RB50#0	5.93	13	PASS
		15	LCH	RB1#0	3.66	13	PASS
				RB1#38	3.39	13	PASS
				RB1#74	4.36	13	PASS
				RB36#0	4.87	13	PASS
				RB36#18	4.86	13	PASS
				RB36#39	5.33	13	PASS
				RB75#0	5.6	13	PASS
			MCH	RB1#0	4.39	13	PASS
				RB1#38	3.97	13	PASS
				RB1#74	4.2	13	PASS
				RB36#0	5.62	13	PASS
				RB36#18	5.61	13	PASS
				RB36#39	5.53	13	PASS
				RB75#0	6.06	13	PASS
			HCH	RB1#0	4.18	13	PASS
				RB1#38	3.88	13	PASS
				RB1#74	4.08	13	PASS
				RB36#0	5.57	13	PASS
				RB36#18	5.4	13	PASS
				RB36#39	5.48	13	PASS
				RB75#0	5.94	13	PASS
		20	LCH	RB1#0	3.74	13	PASS
				RB1#50	3.87	13	PASS
				RB1#99	4.69	13	PASS
				RB50#0	4.86	13	PASS
				RB50#25	5.25	13	PASS
				RB50#50	5.49	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	5.62	13	PASS
			MCH	RB1#0	4.45	13	PASS
				RB1#50	4.1	13	PASS
				RB1#99	4.14	13	PASS
				RB50#0	5.7	13	PASS
				RB50#25	5.6	13	PASS
				RB50#50	5.39	13	PASS
				RB100#0	6.19	13	PASS
			HCH	RB1#0	4	13	PASS
				RB1#50	4.01	13	PASS
				RB1#99	3.94	13	PASS
				RB50#0	5.49	13	PASS
				RB50#25	5.33	13	PASS
				RB50#50	5.46	13	PASS
				RB100#0	5.82	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.22	13	PASS
				RB1#13	4	13	PASS
				RB1#24	4.37	13	PASS
				RB12#0	5.1	13	PASS
				RB12#6	4.87	13	PASS
				RB12#13	5.15	13	PASS
				RB25#0	5.79	13	PASS
			MCH	RB1#0	4.98	13	PASS
				RB1#13	4.93	13	PASS
				RB1#24	4.96	13	PASS
				RB12#0	5.72	13	PASS
				RB12#6	5.71	13	PASS
				RB12#13	5.9	13	PASS
				RB25#0	6.18	13	PASS
			HCH	RB1#0	4.81	13	PASS
				RB1#13	4.61	13	PASS
				RB1#24	4.73	13	PASS
				RB12#0	5.53	13	PASS
				RB12#6	5.39	13	PASS
				RB12#13	5.53	13	PASS
				RB25#0	6.12	13	PASS
		10	LCH	RB1#0	4.4	13	PASS
				RB1#25	4.23	13	PASS
				RB1#49	4.82	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.22	13	PASS
				RB25#13	5.16	13	PASS
				RB25#25	5.37	13	PASS
				RB50#0	5.76	13	PASS
			MCH	RB1#0	4.99	13	PASS
				RB1#25	4.82	13	PASS
				RB1#49	4.89	13	PASS
				RB25#0	5.82	13	PASS
				RB25#13	5.87	13	PASS
				RB25#25	6.05	13	PASS
				RB50#0	6.53	13	PASS
			HCH	RB1#0	4.79	13	PASS
				RB1#25	4.69	13	PASS
				RB1#49	4.7	13	PASS
				RB25#0	5.8	13	PASS
				RB25#13	5.72	13	PASS
				RB25#25	5.71	13	PASS
				RB50#0	6.41	13	PASS
		15	LCH	RB1#0	4.68	13	PASS
				RB1#38	4.36	13	PASS
				RB1#74	5.14	13	PASS
				RB36#0	5.22	13	PASS
				RB36#18	5.35	13	PASS
				RB36#39	5.77	13	PASS
				RB75#0	6.27	13	PASS
			MCH	RB1#0	5.3	13	PASS
				RB1#38	4.97	13	PASS
				RB1#74	4.96	13	PASS
				RB36#0	5.98	13	PASS
				RB36#18	5.94	13	PASS
				RB36#39	6.2	13	PASS
				RB75#0	6.82	13	PASS
			HCH	RB1#0	5.18	13	PASS
				RB1#38	4.73	13	PASS
				RB1#74	4.93	13	PASS
				RB36#0	6.11	13	PASS
				RB36#18	5.91	13	PASS
				RB36#39	5.91	13	PASS
				RB75#0	6.62	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	4.51	13	PASS
				RB1#50	4.26	13	PASS
				RB1#99	4.96	13	PASS
				RB50#0	5.39	13	PASS
				RB50#25	5.71	13	PASS
				RB50#50	6.11	13	PASS
				RB100#0	6.21	13	PASS
			MCH	RB1#0	5	13	PASS
				RB1#50	4.7	13	PASS
				RB1#99	4.82	13	PASS
				RB50#0	6.08	13	PASS
				RB50#25	6.08	13	PASS
				RB50#50	6.03	13	PASS
				RB100#0	6.5	13	PASS
			HCH	RB1#0	4.61	13	PASS
				RB1#50	4.51	13	PASS
				RB1#99	4.8	13	PASS
				RB50#0	5.9	13	PASS
				RB50#25	5.88	13	PASS
				RB50#50	6.11	13	PASS
				RB100#0	6.48	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

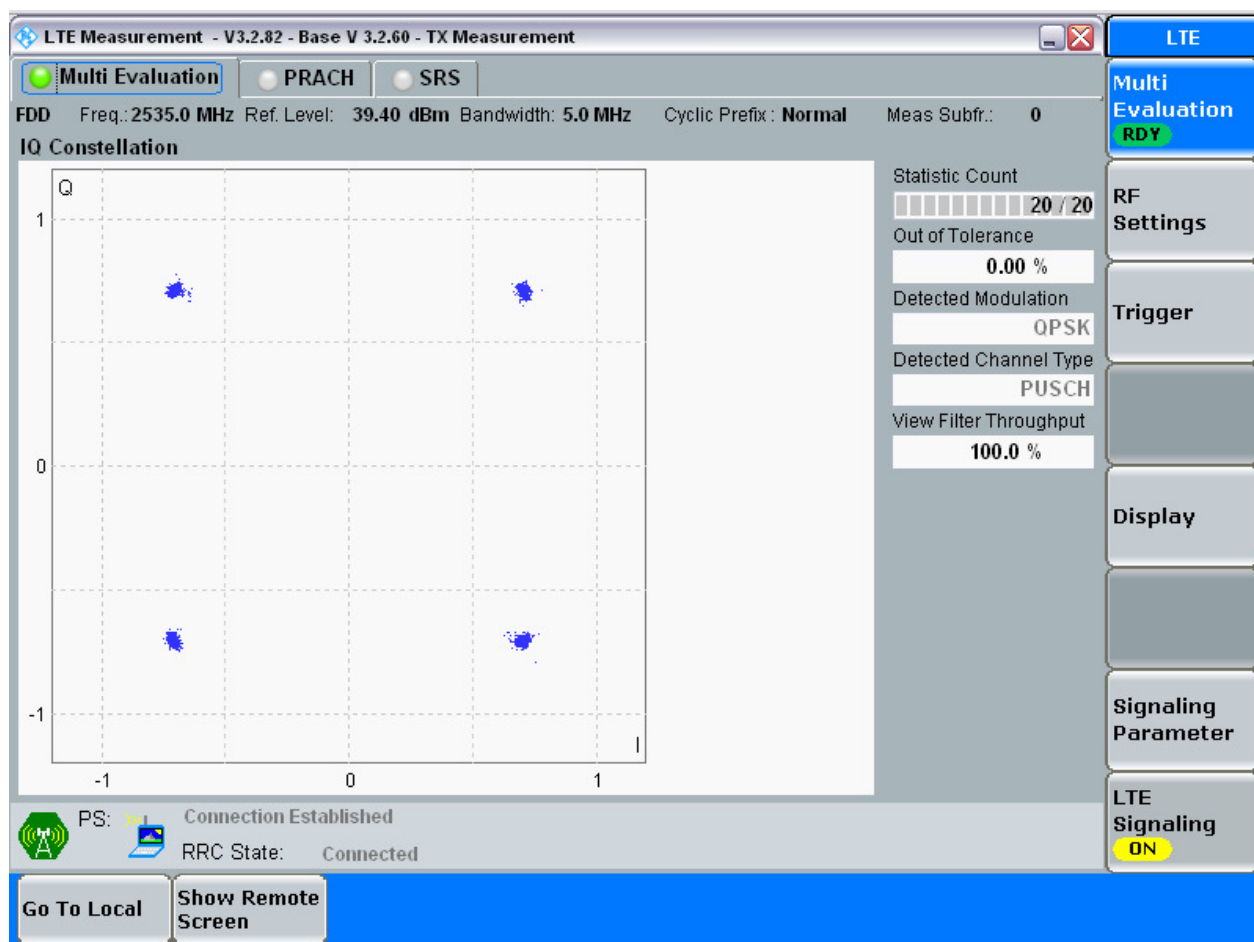
3.1.1 Test Band = BAND7

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

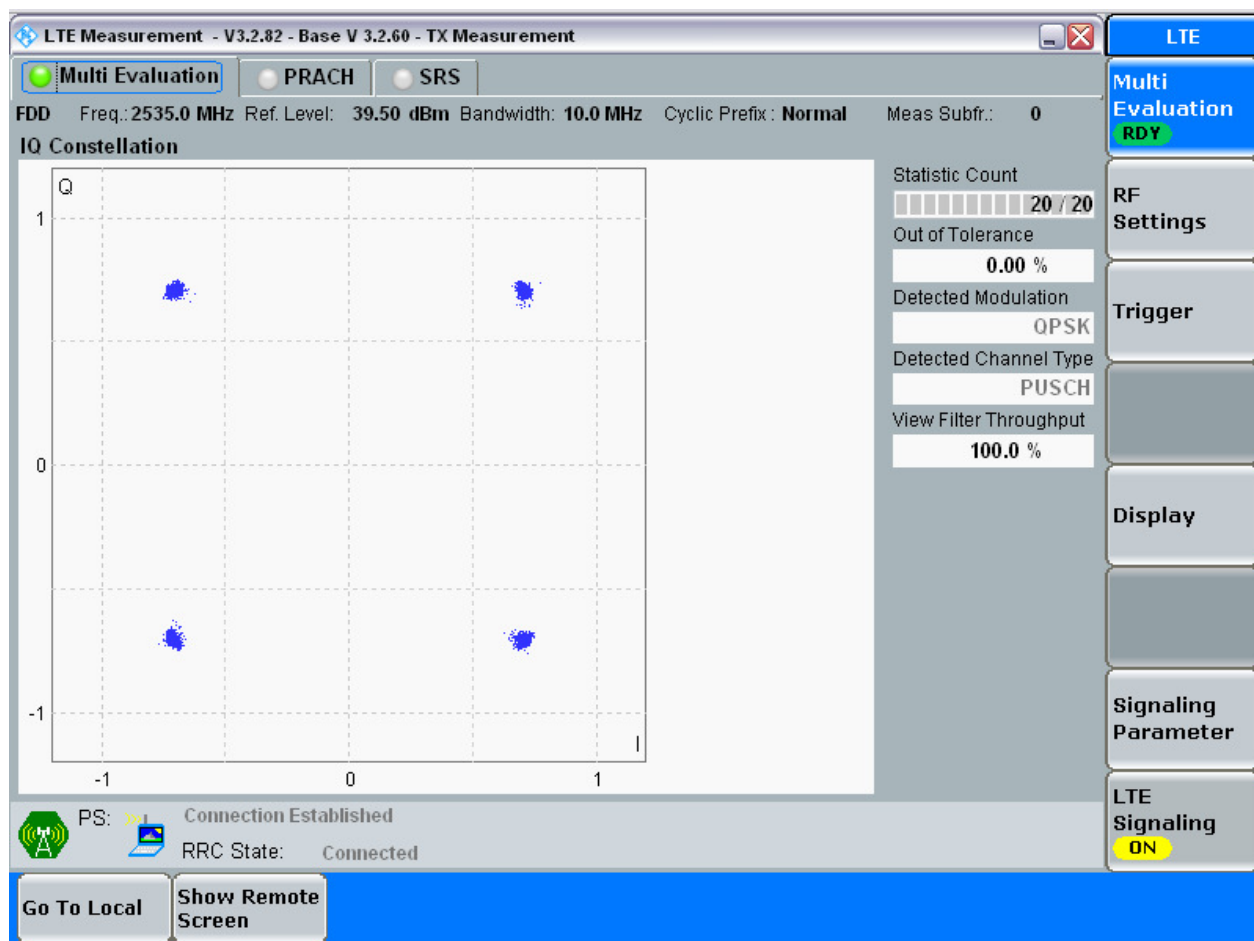
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

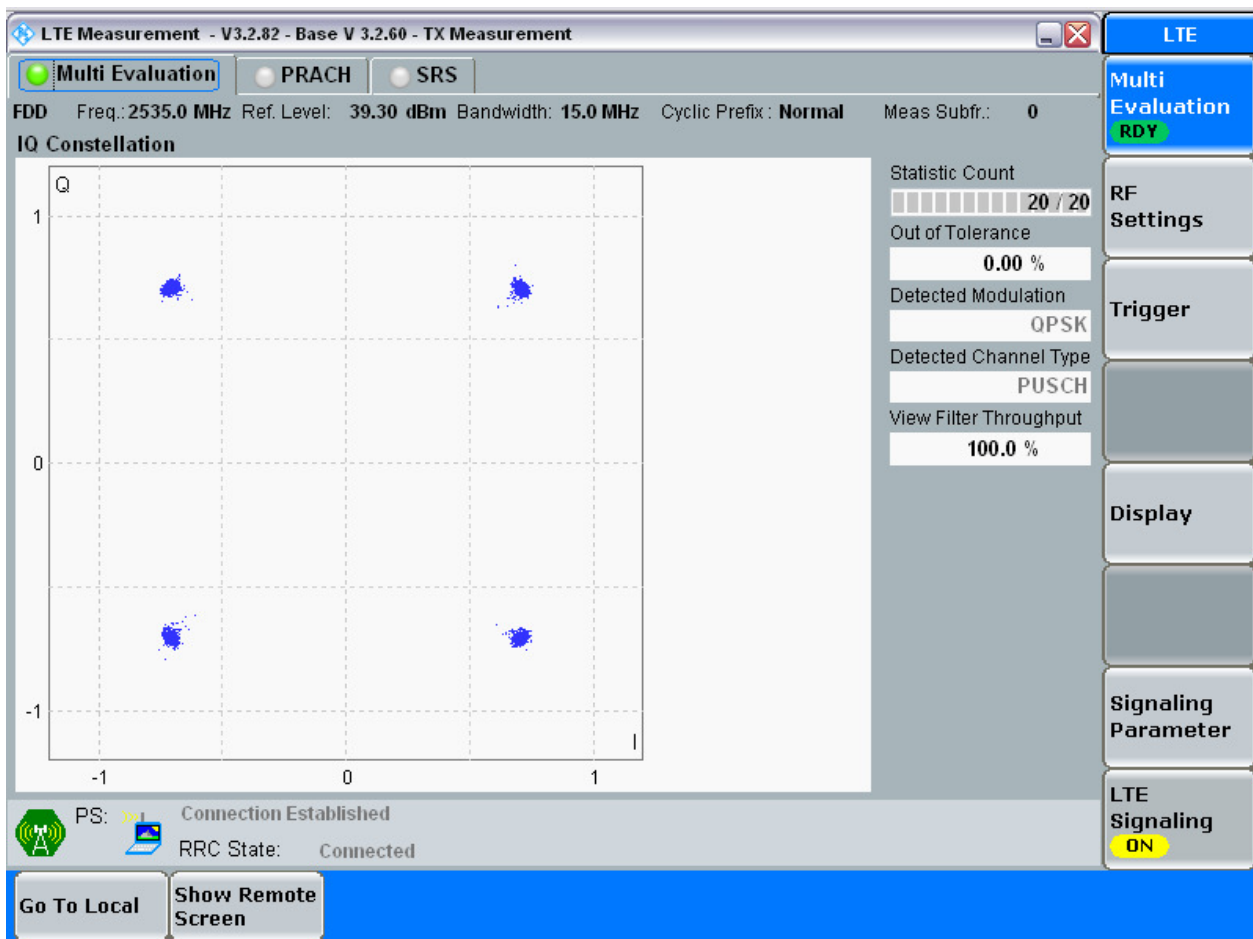
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

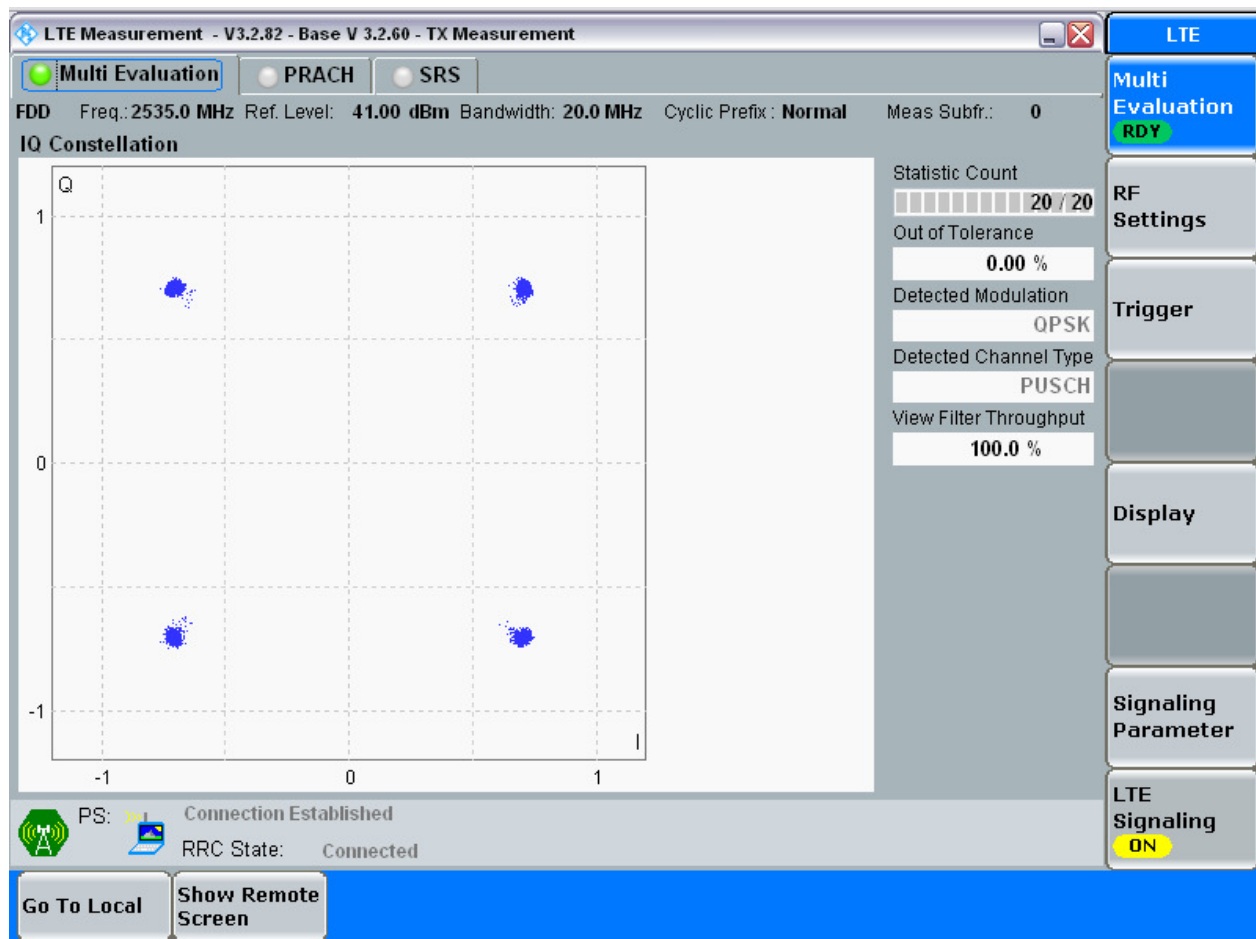
3.1.1.1.3.1.1 Test RB = RB75#0



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

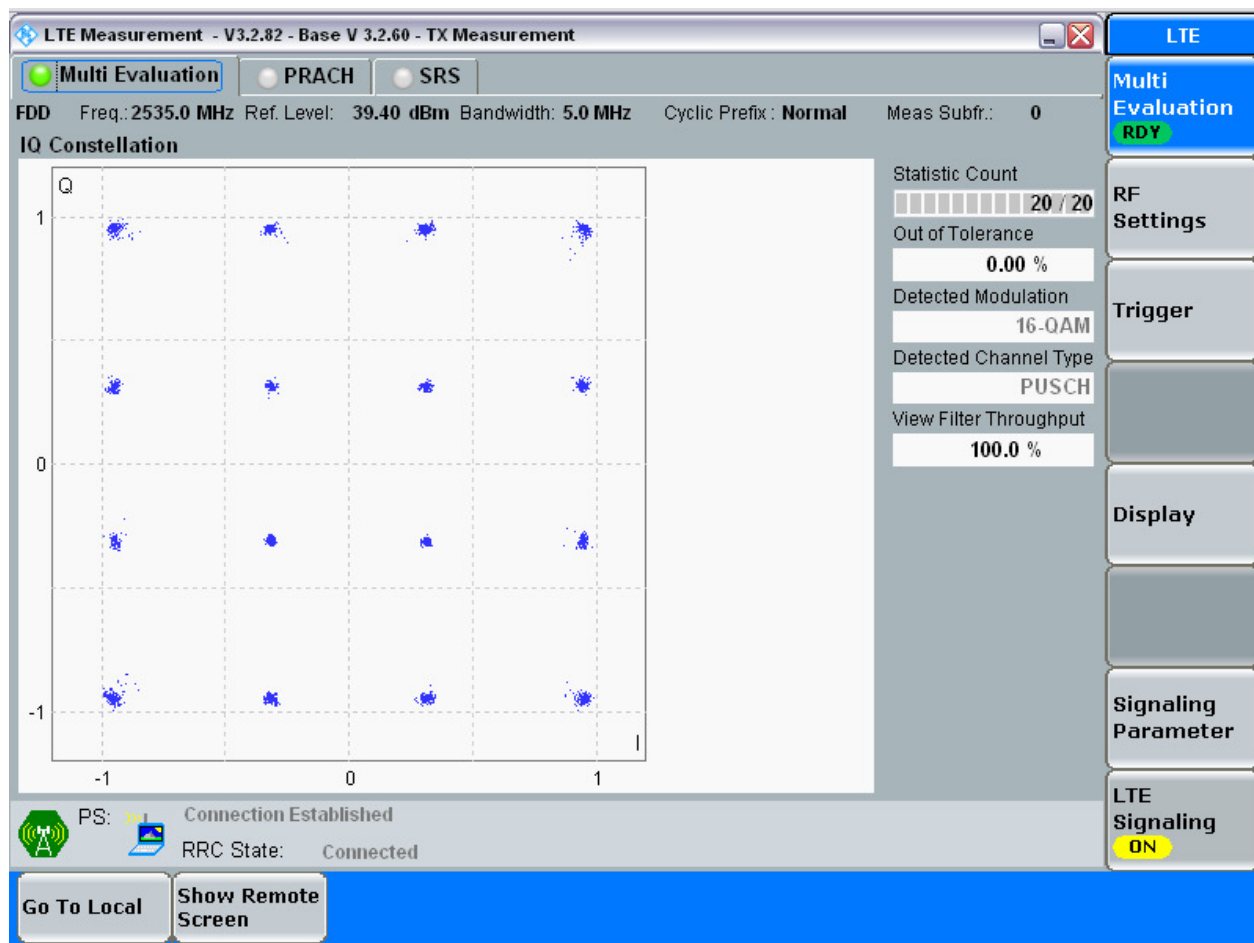


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

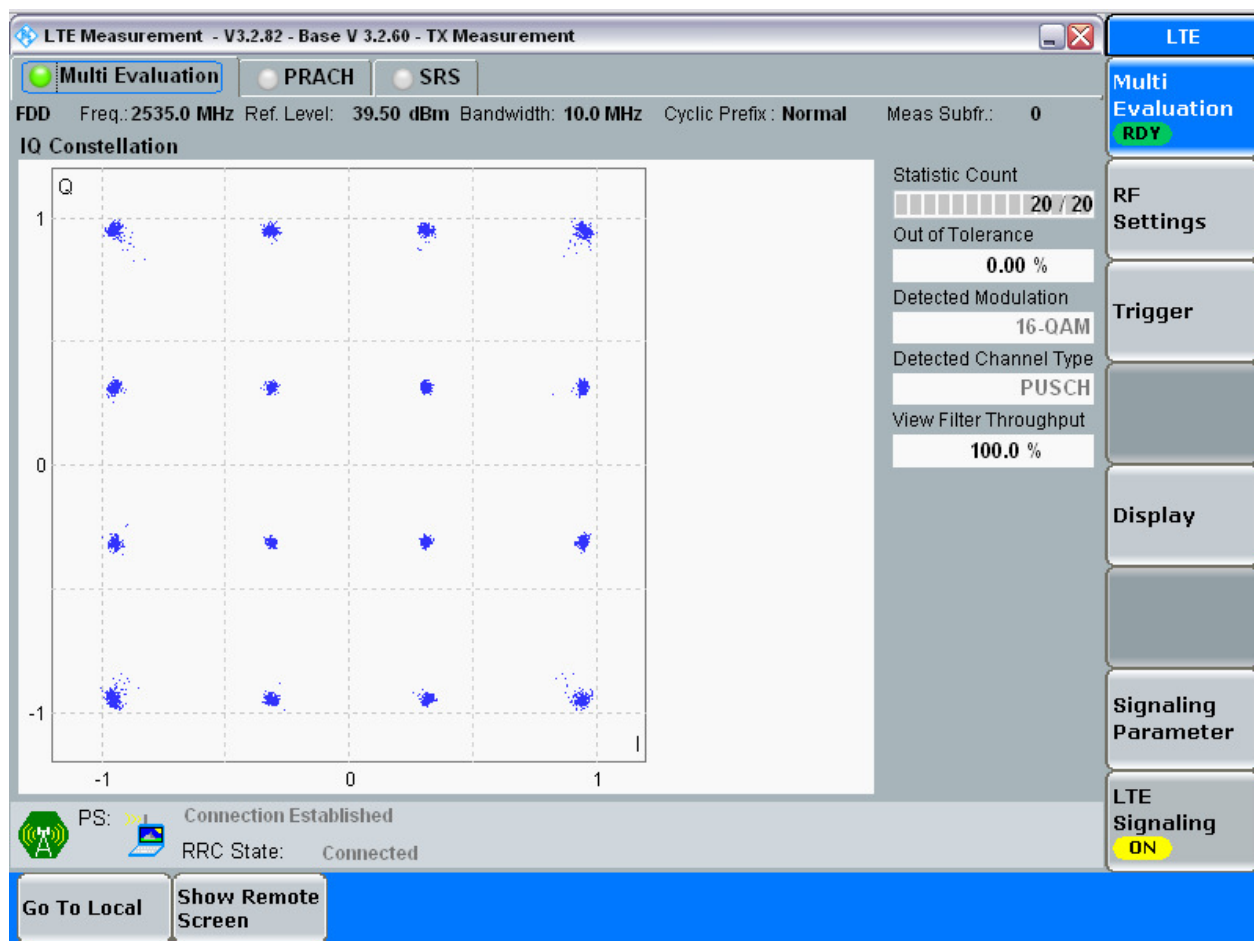
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

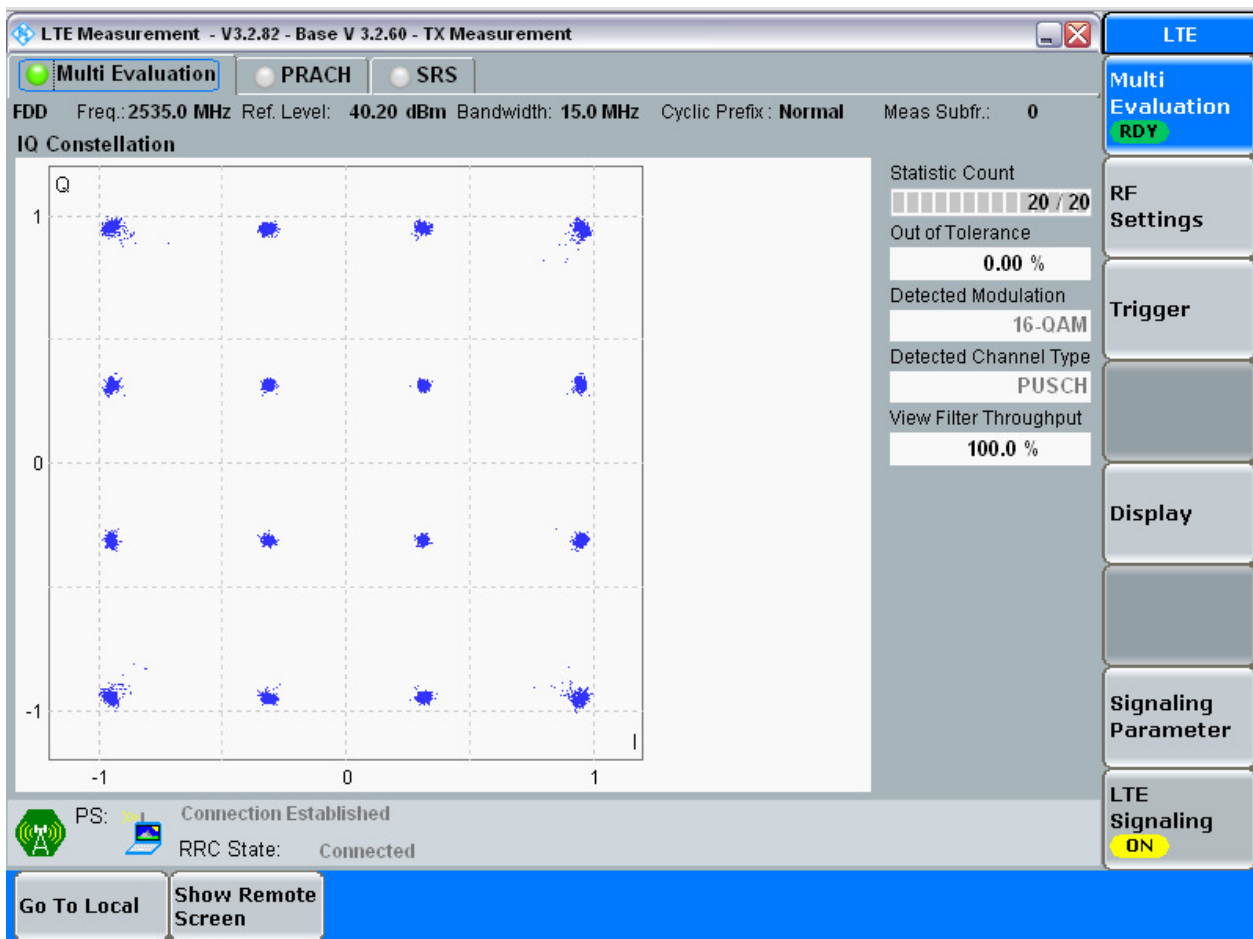
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

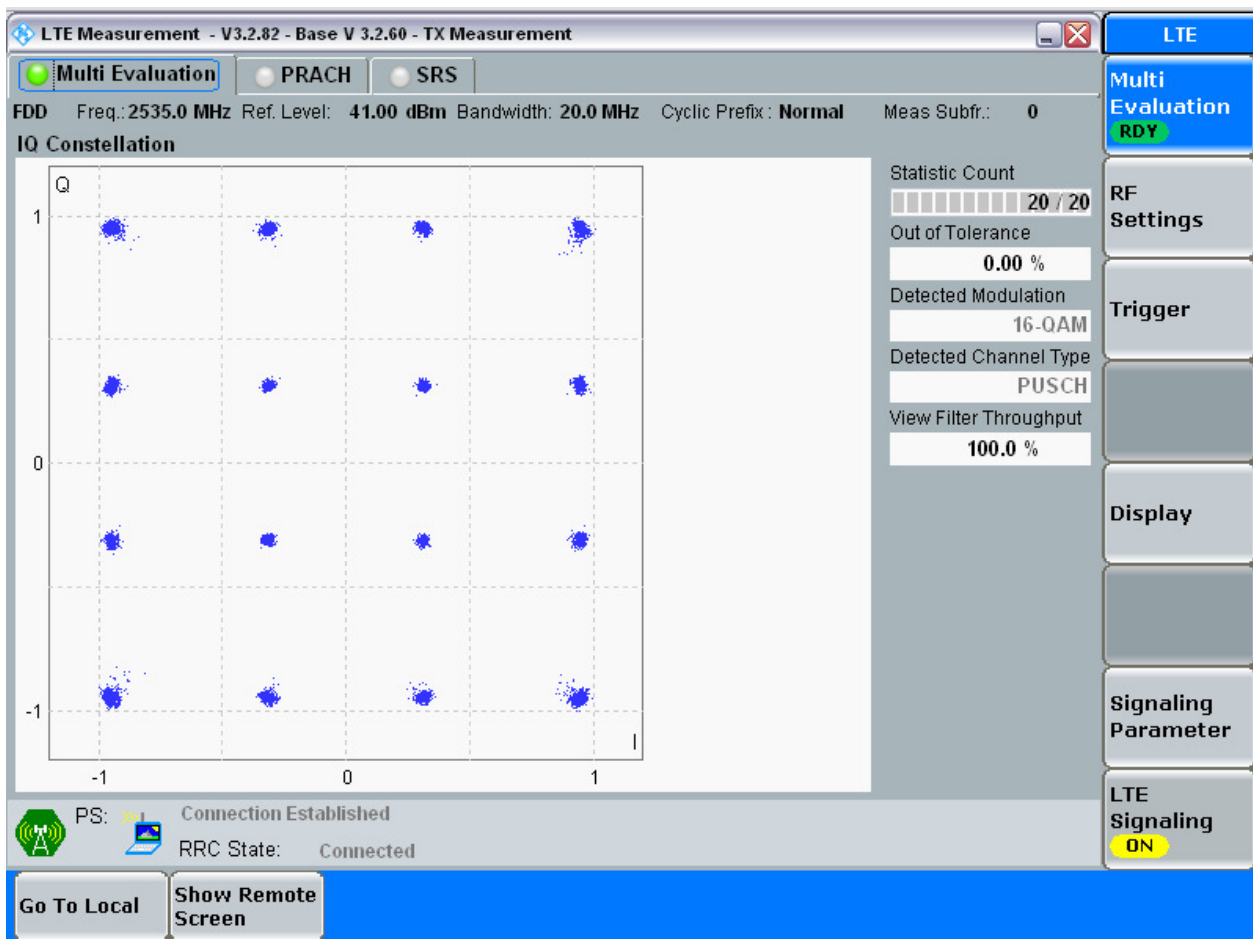
3.1.1.2.3.1.1 Test RB = RB75#0



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
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.86	Pass
			MCH	RB25#0	4.50	4.86	Pass
			HCH	RB25#0	4.50	4.84	Pass
		10	LCH	RB50#0	8.98	9.65	Pass
			MCH	RB50#0	8.98	9.62	Pass
			HCH	RB50#0	8.98	9.62	Pass
		15	LCH	RB75#0	13.45	14.34	Pass
			MCH	RB75#0	13.48	14.35	Pass
			HCH	RB75#0	13.47	14.39	Pass
		20	LCH	RB100#0	17.91	19.03	Pass
			MCH	RB100#0	17.95	19.08	Pass
			HCH	RB100#0	17.98	19.05	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.85	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	9.00	9.67	Pass
			MCH	RB50#0	9.01	9.64	Pass
			HCH	RB50#0	9.00	9.60	Pass
		15	LCH	RB75#0	13.46	14.38	Pass
			MCH	RB75#0	13.47	14.40	Pass
			HCH	RB75#0	13.49	14.40	Pass
		20	LCH	RB100#0	17.91	19.03	Pass
			MCH	RB100#0	17.97	19.09	Pass
			HCH	RB100#0	17.98	19.09	Pass



Part II - Test Plots

4.1 For LTE

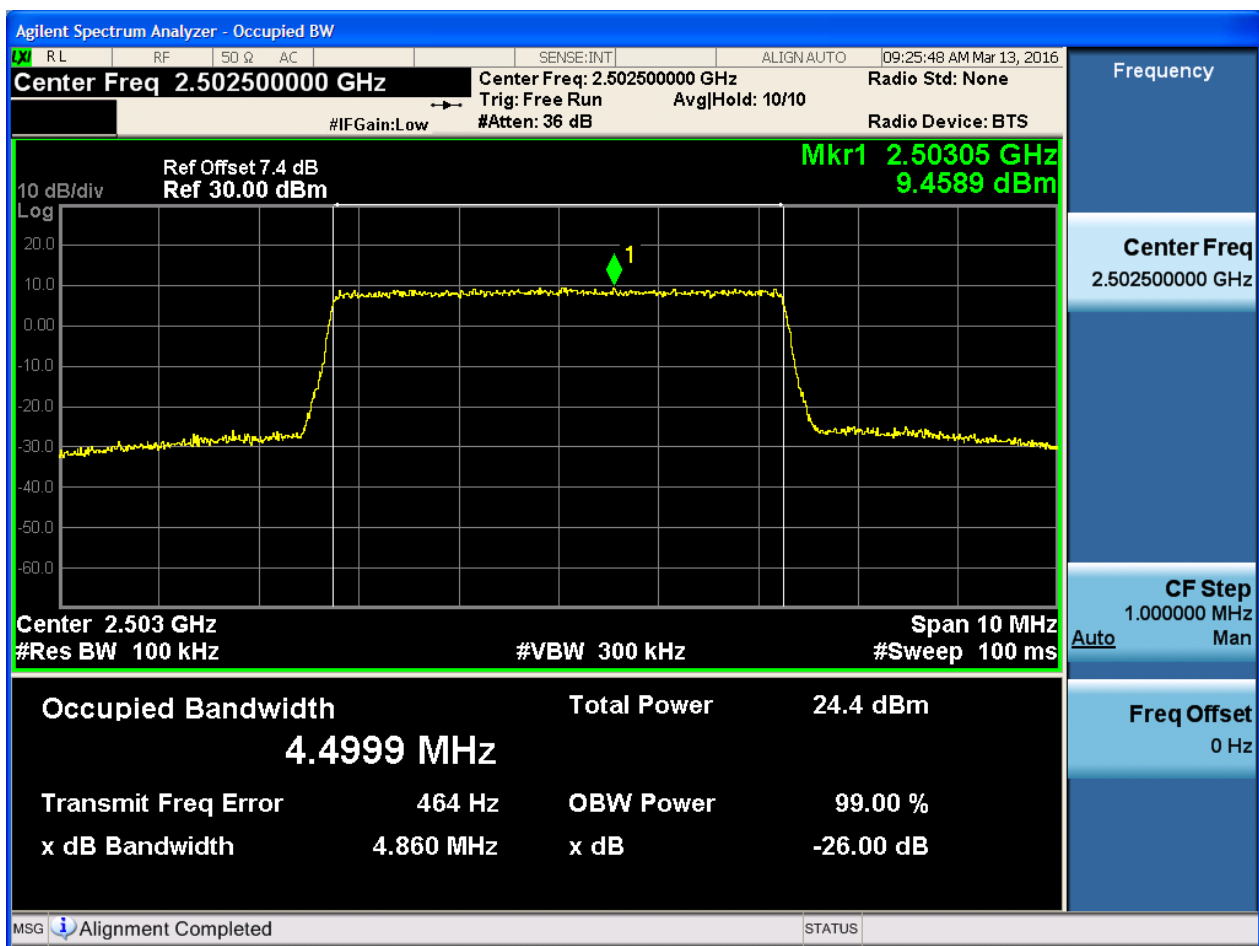
4.1.1 Test Band = BAND7

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

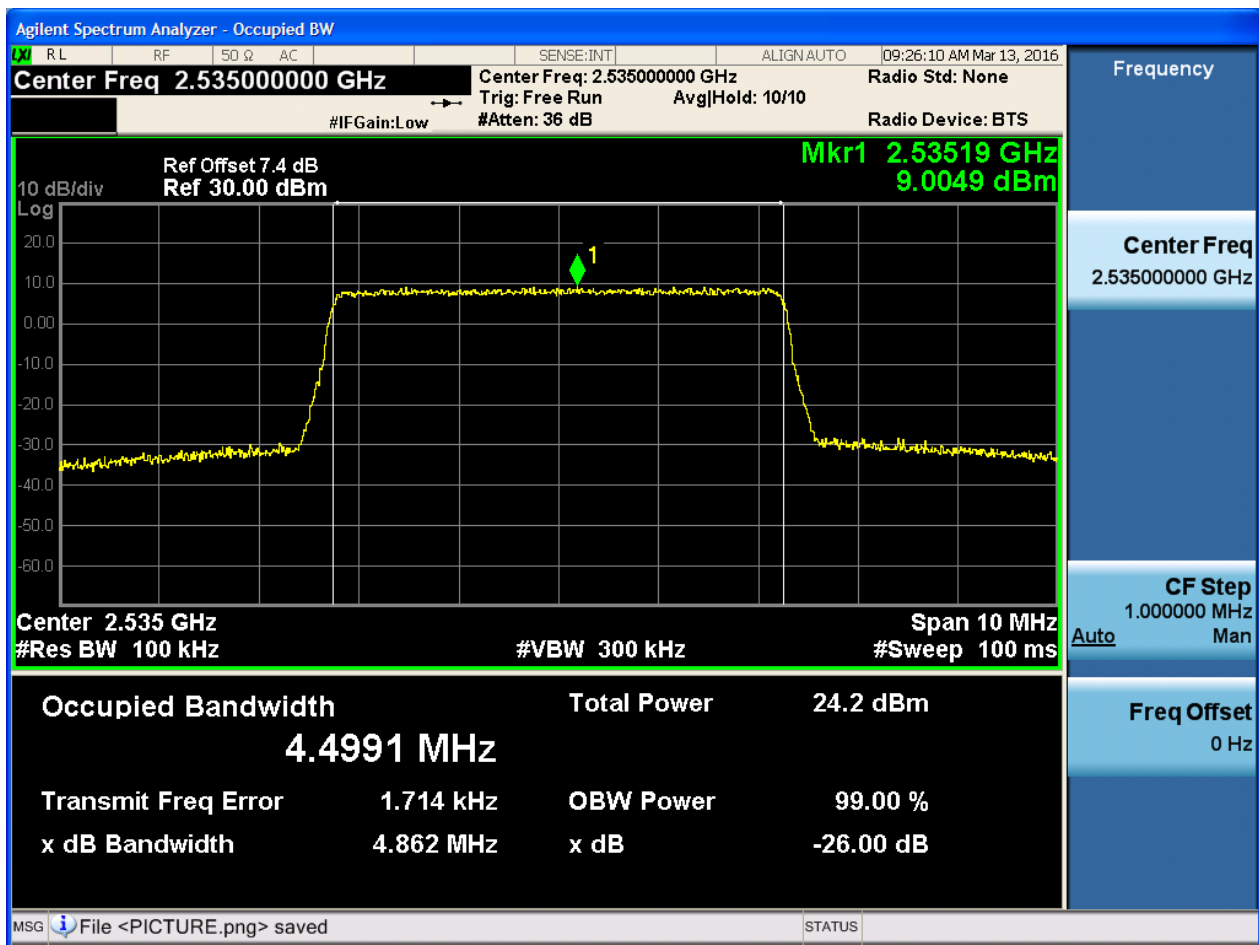
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

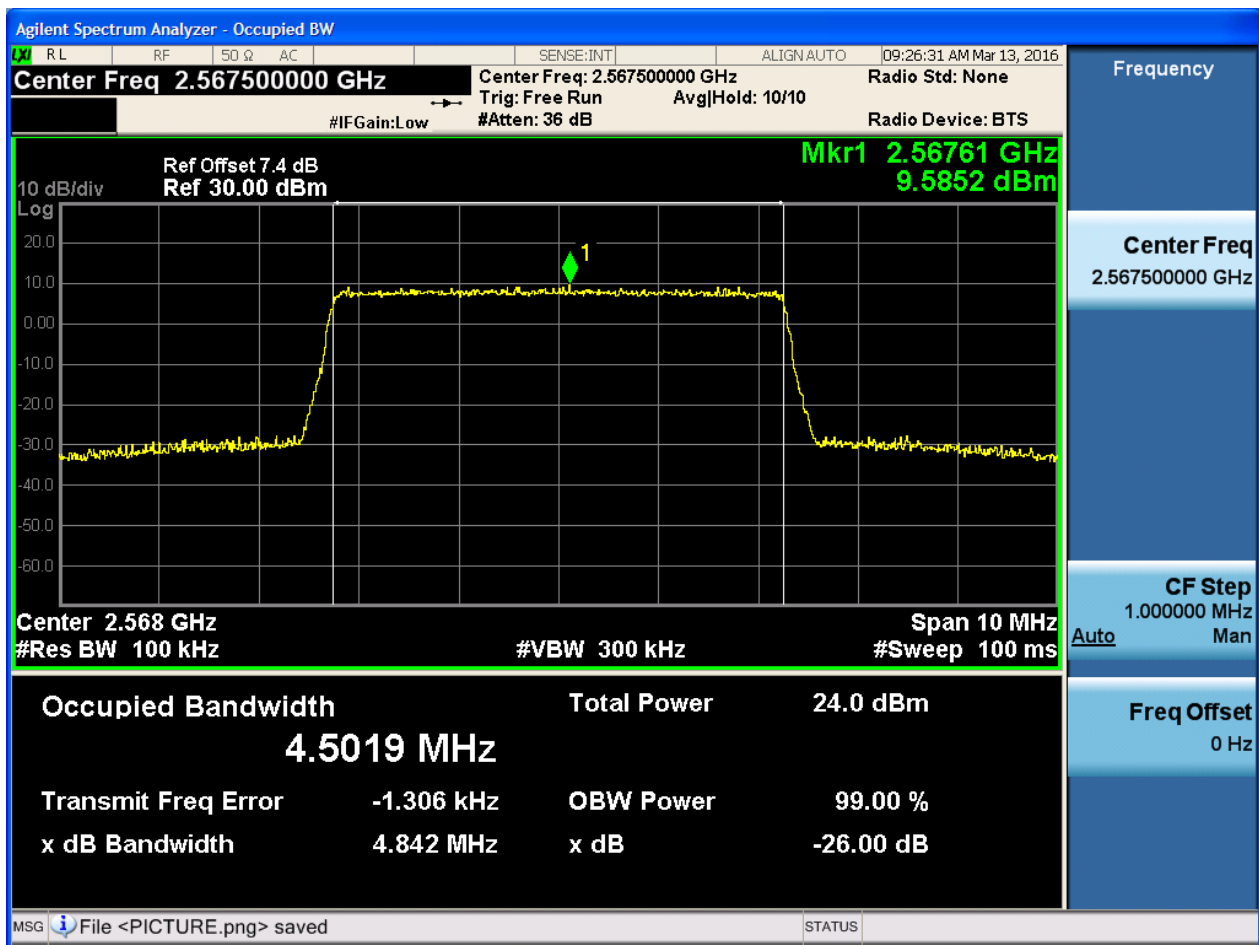
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

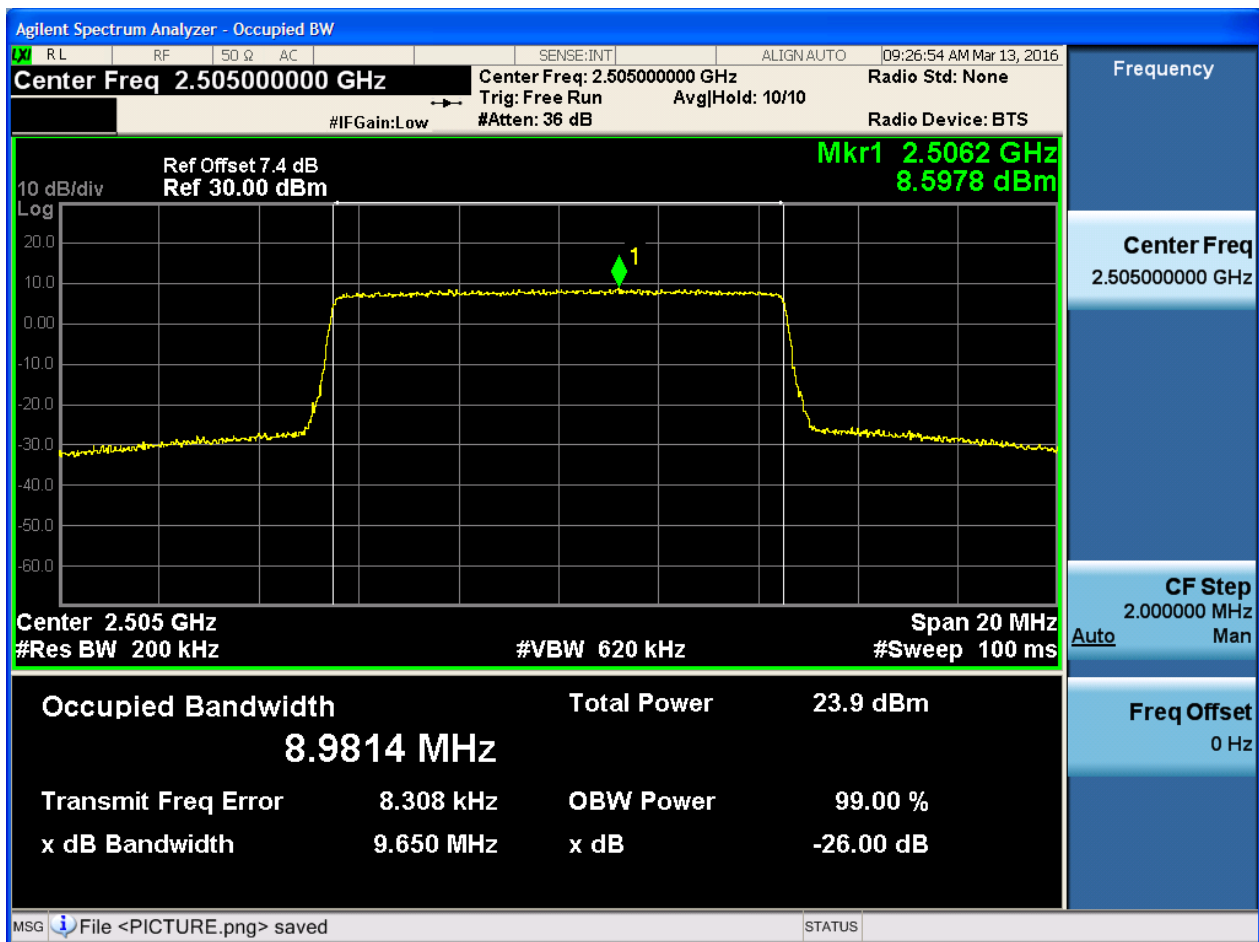




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

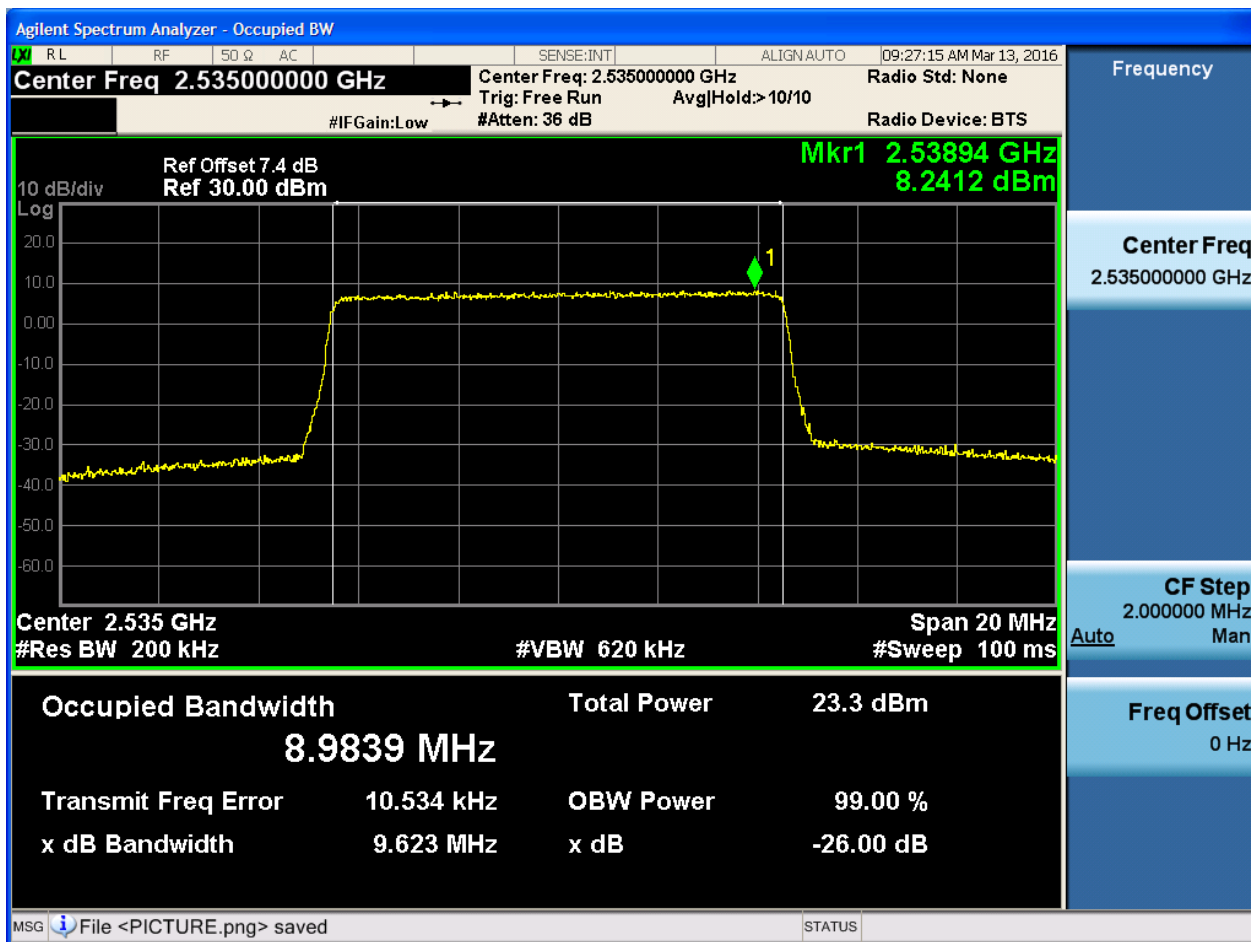
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

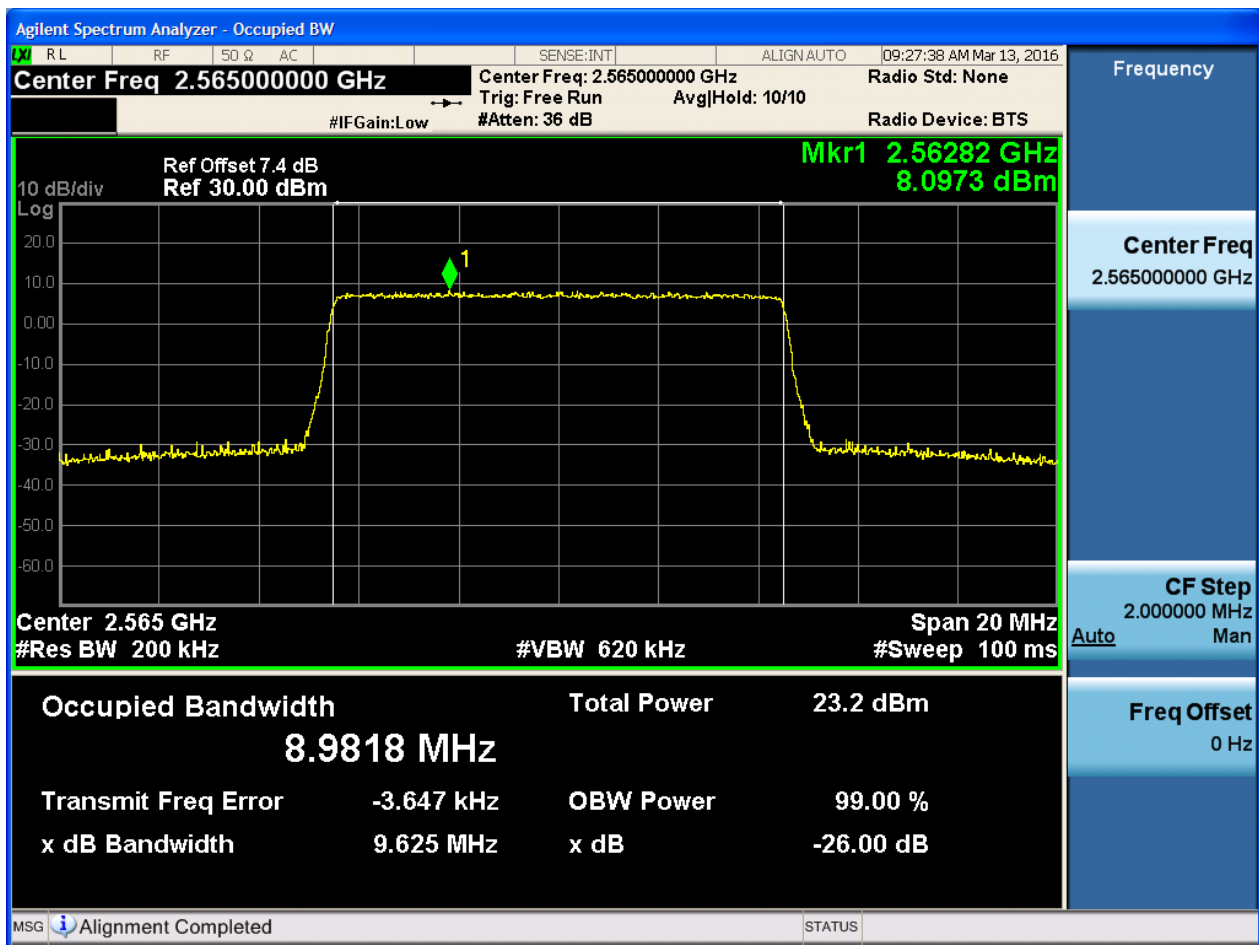
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

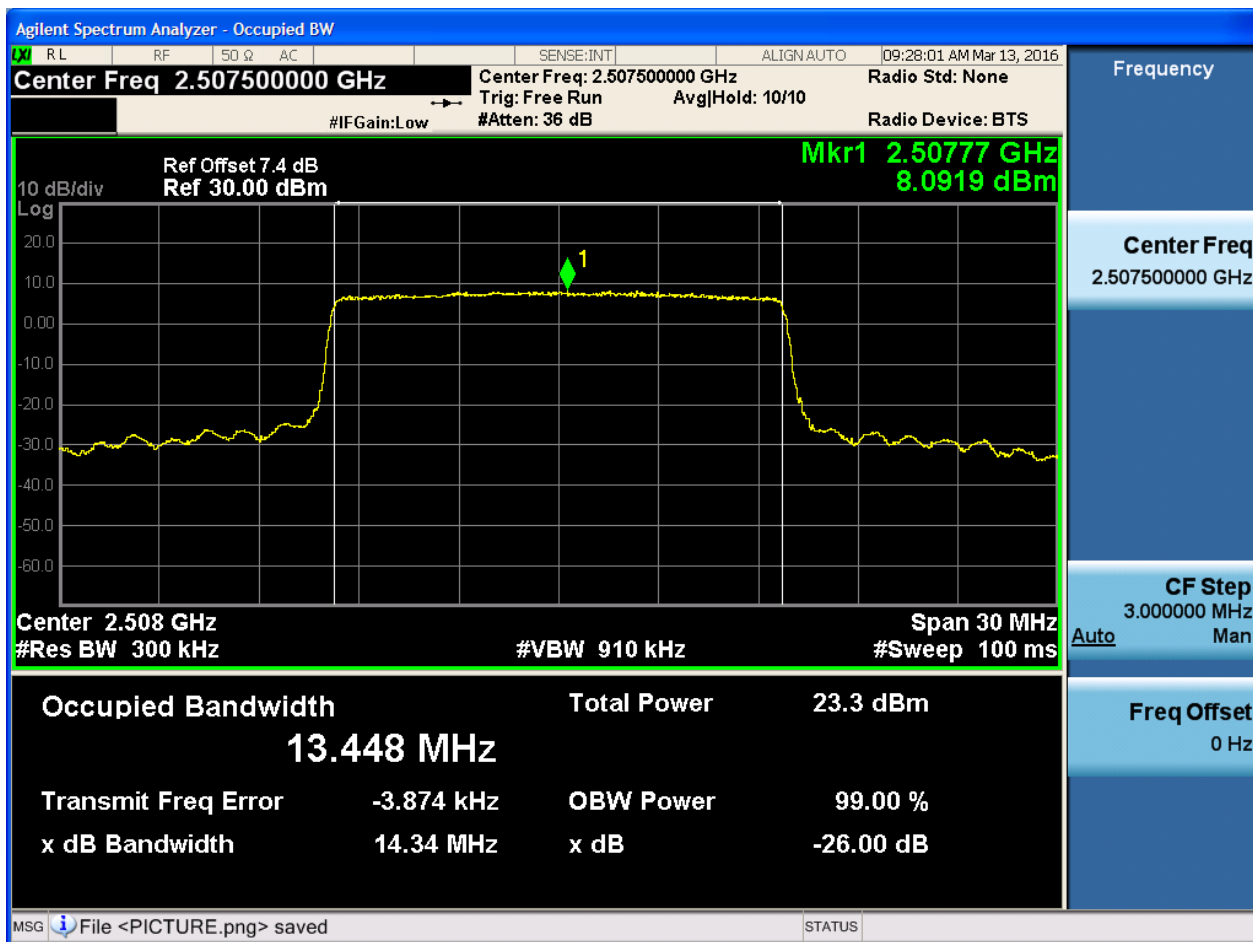




4.1.1.1.3 Test Bandwidth = 15

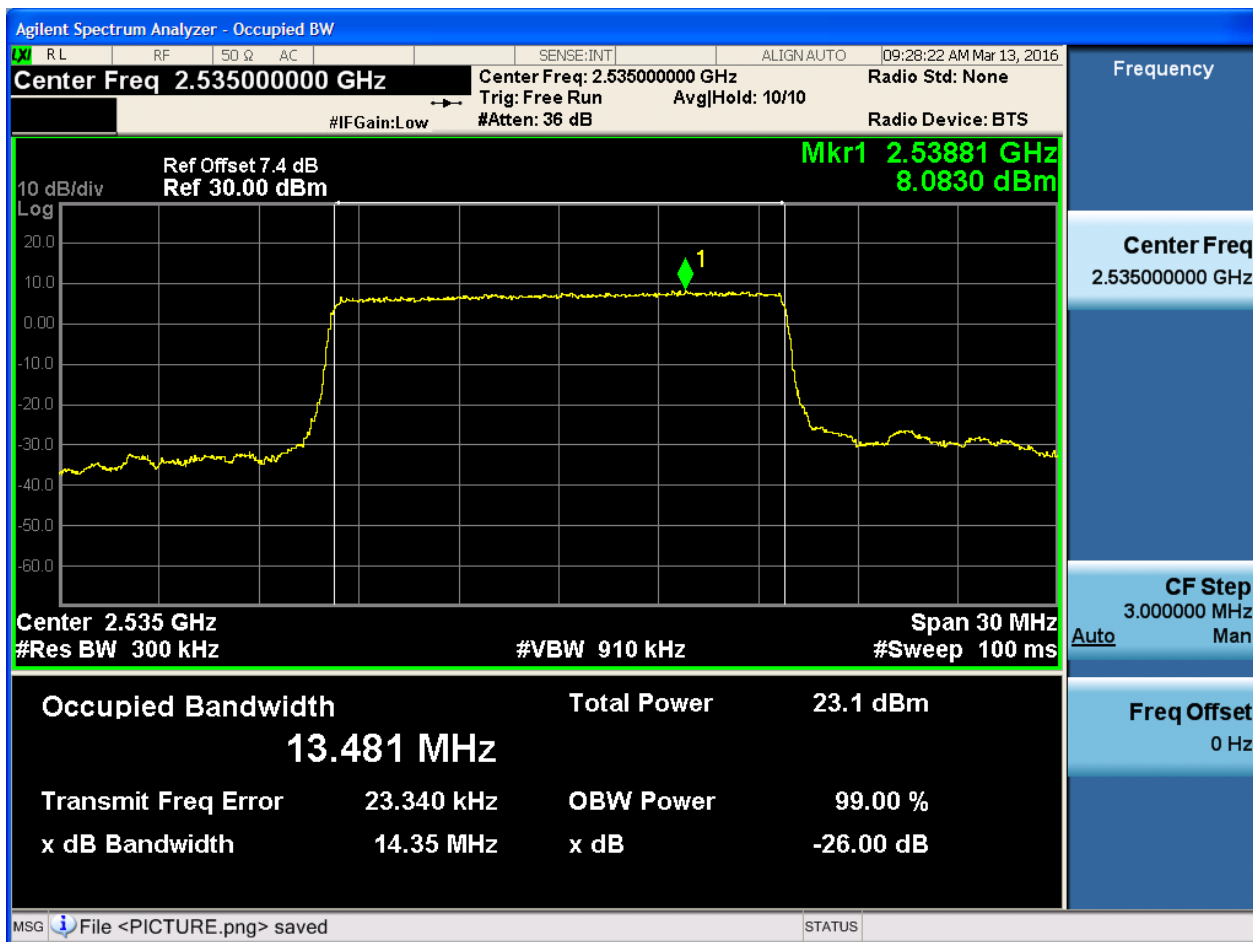
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



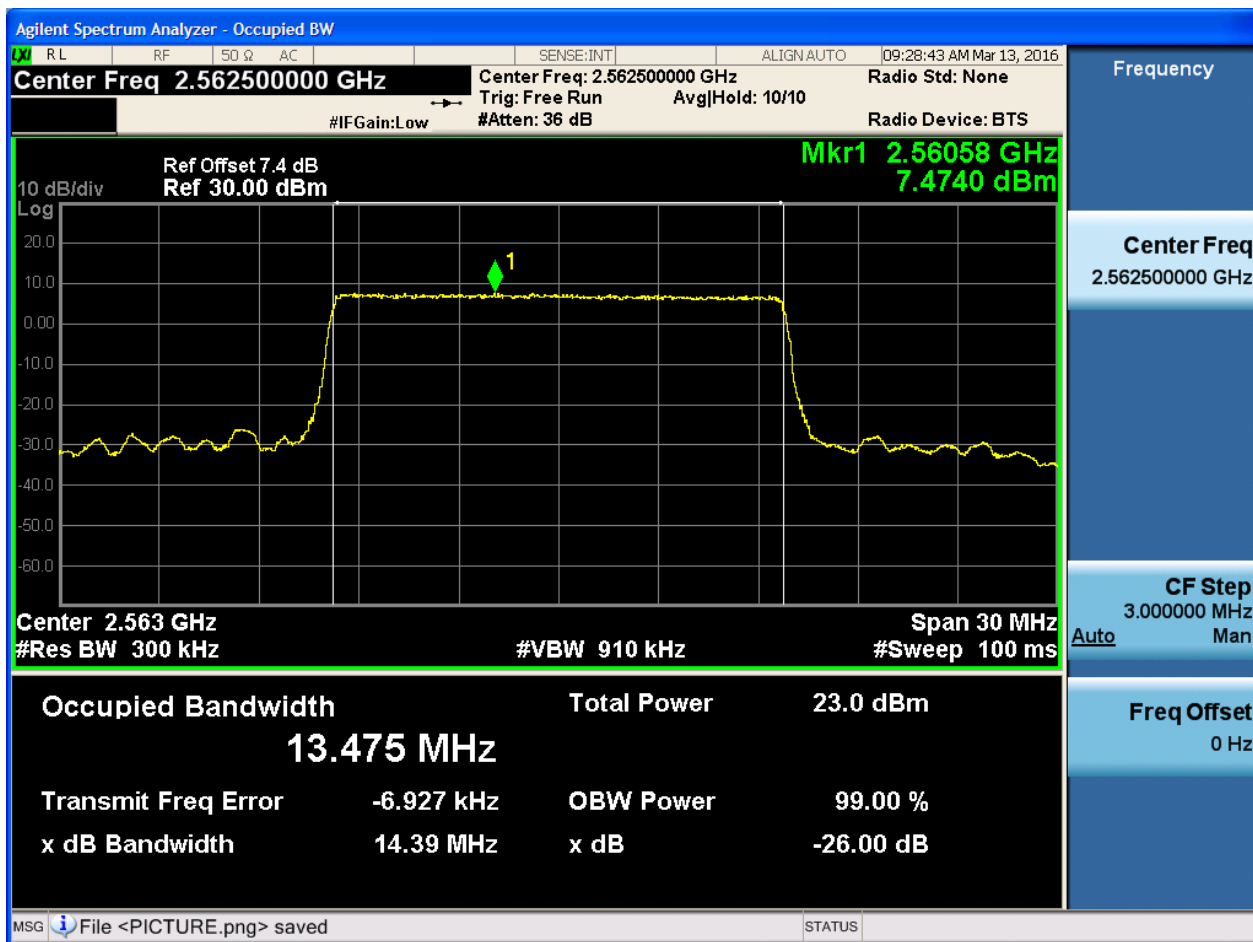
4.1.1.1.3.2 Test Channel = MCH

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

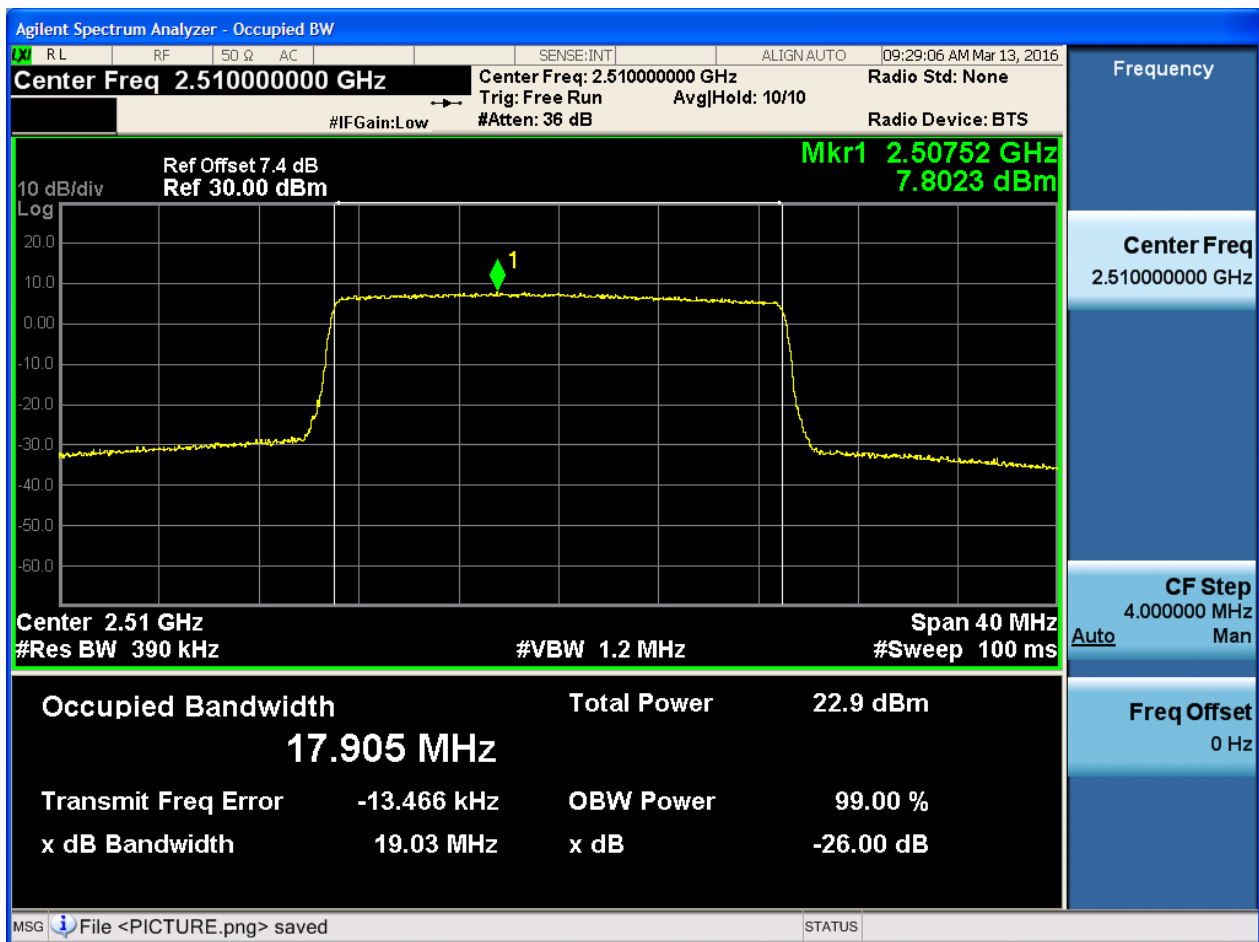




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

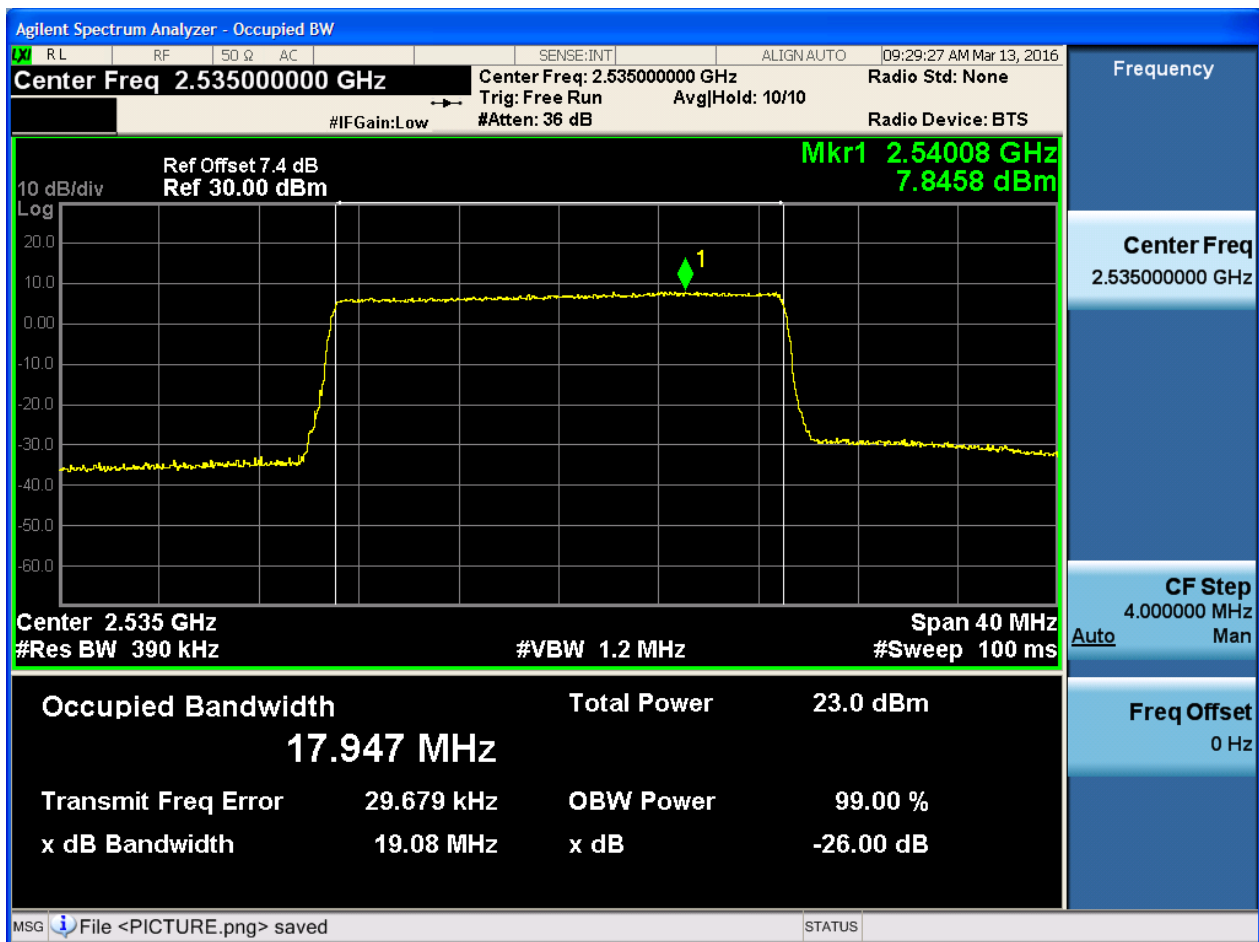
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

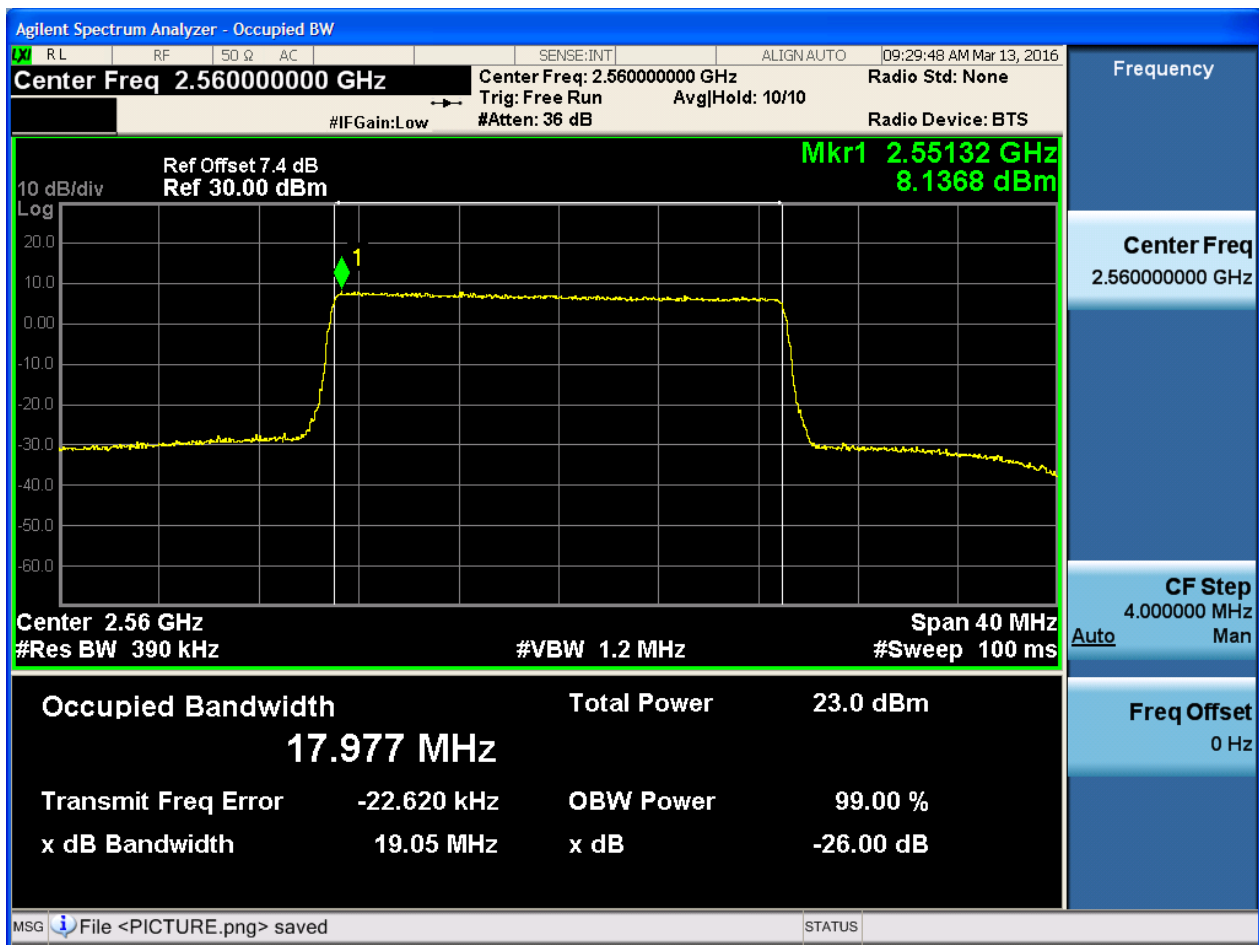
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



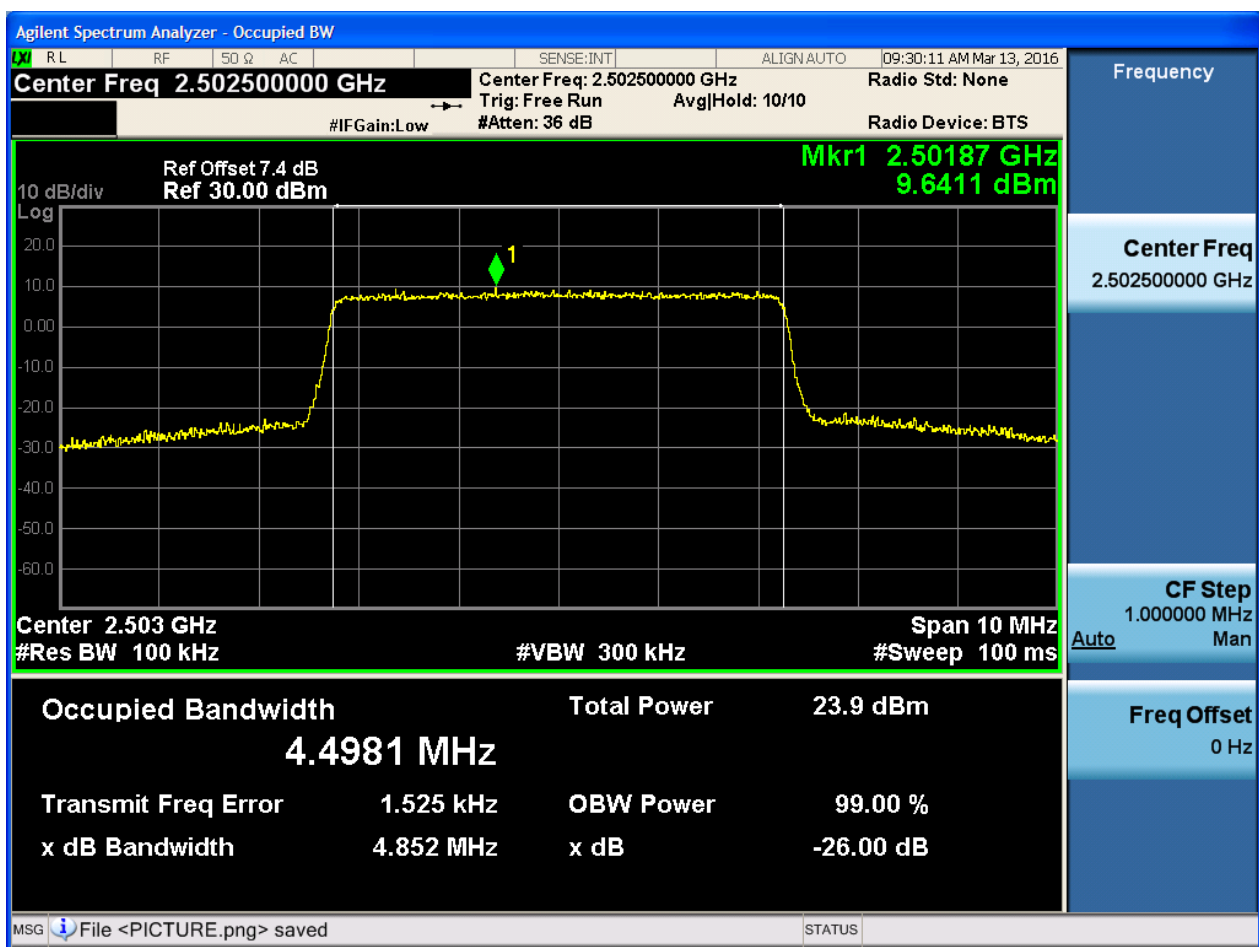


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

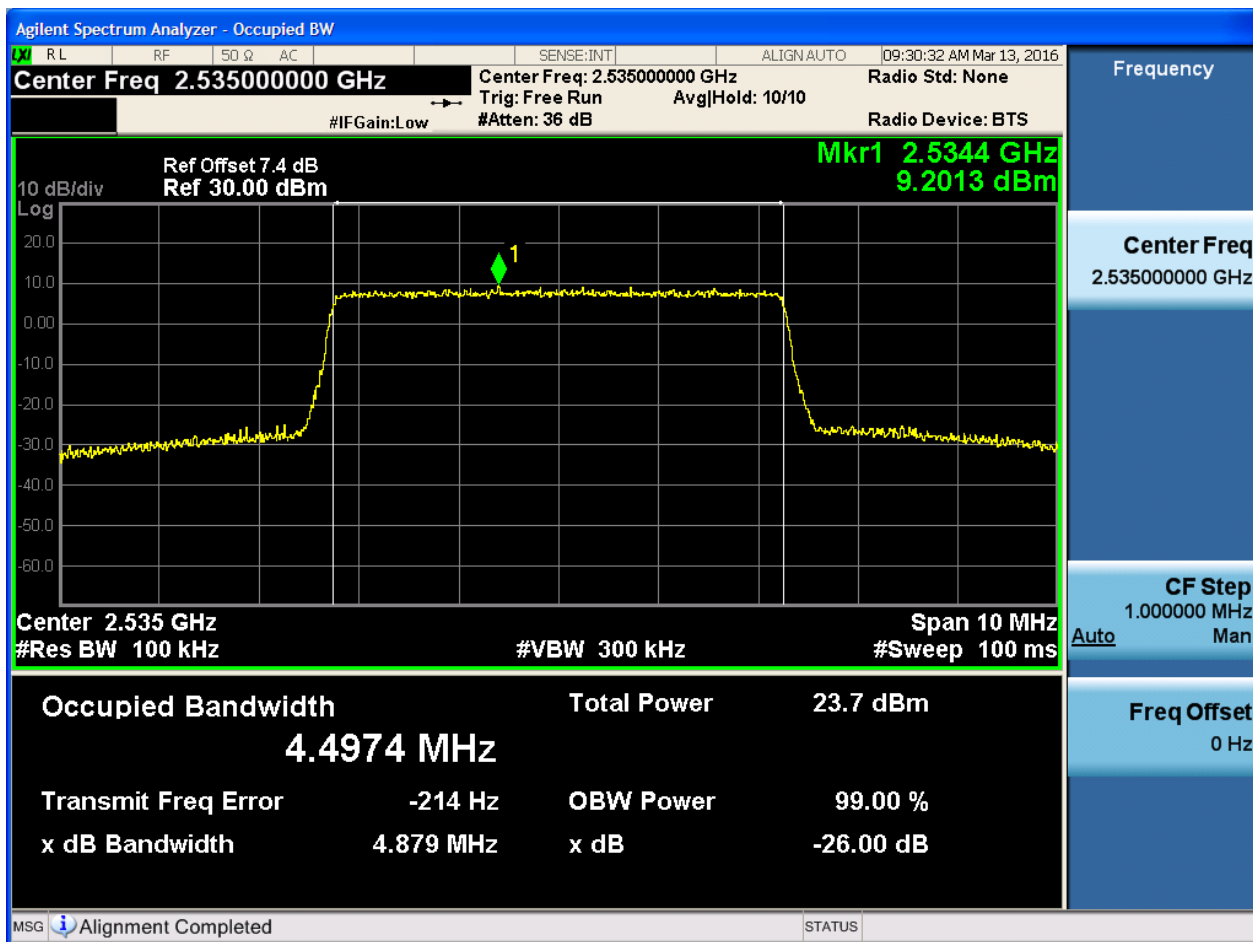
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

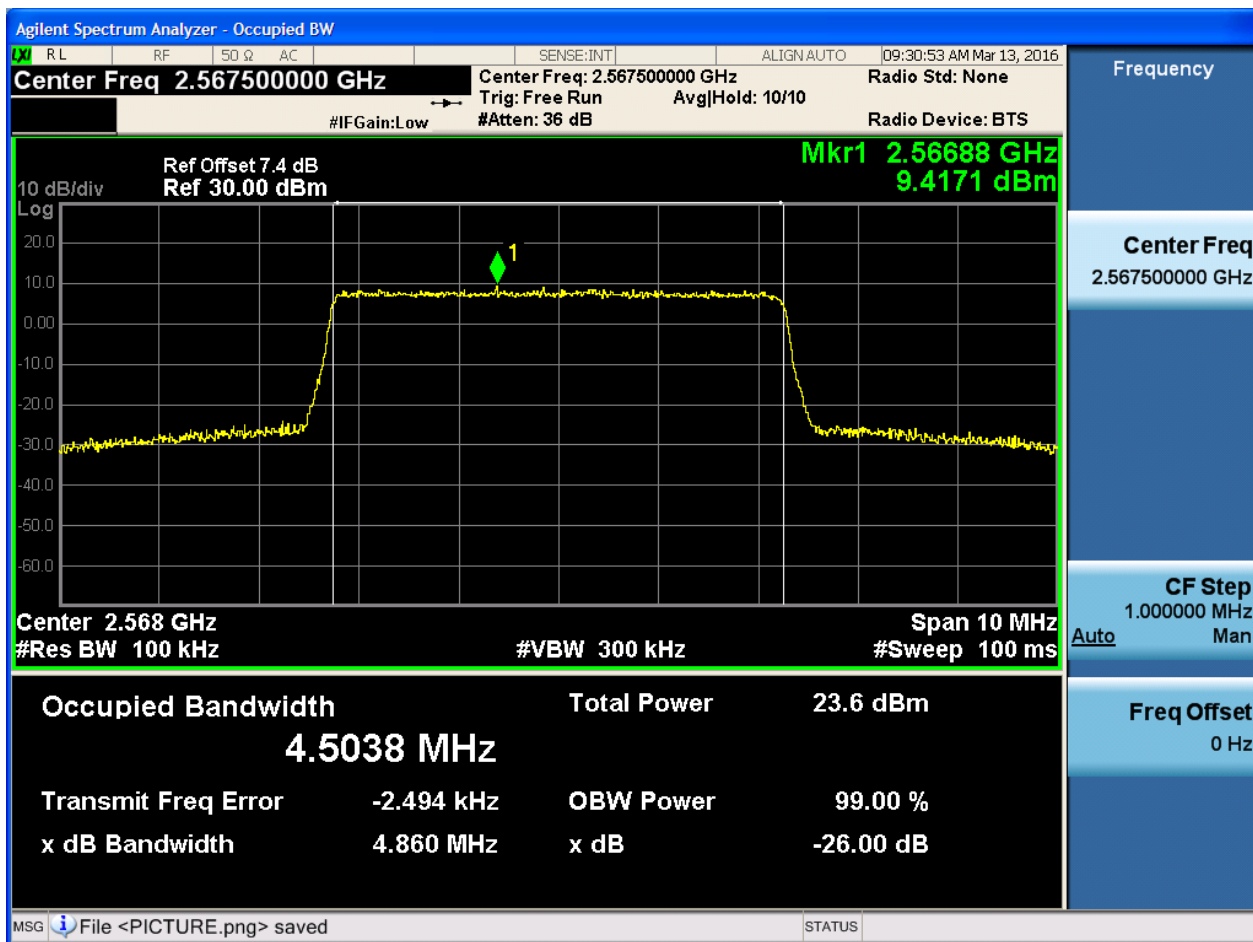
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

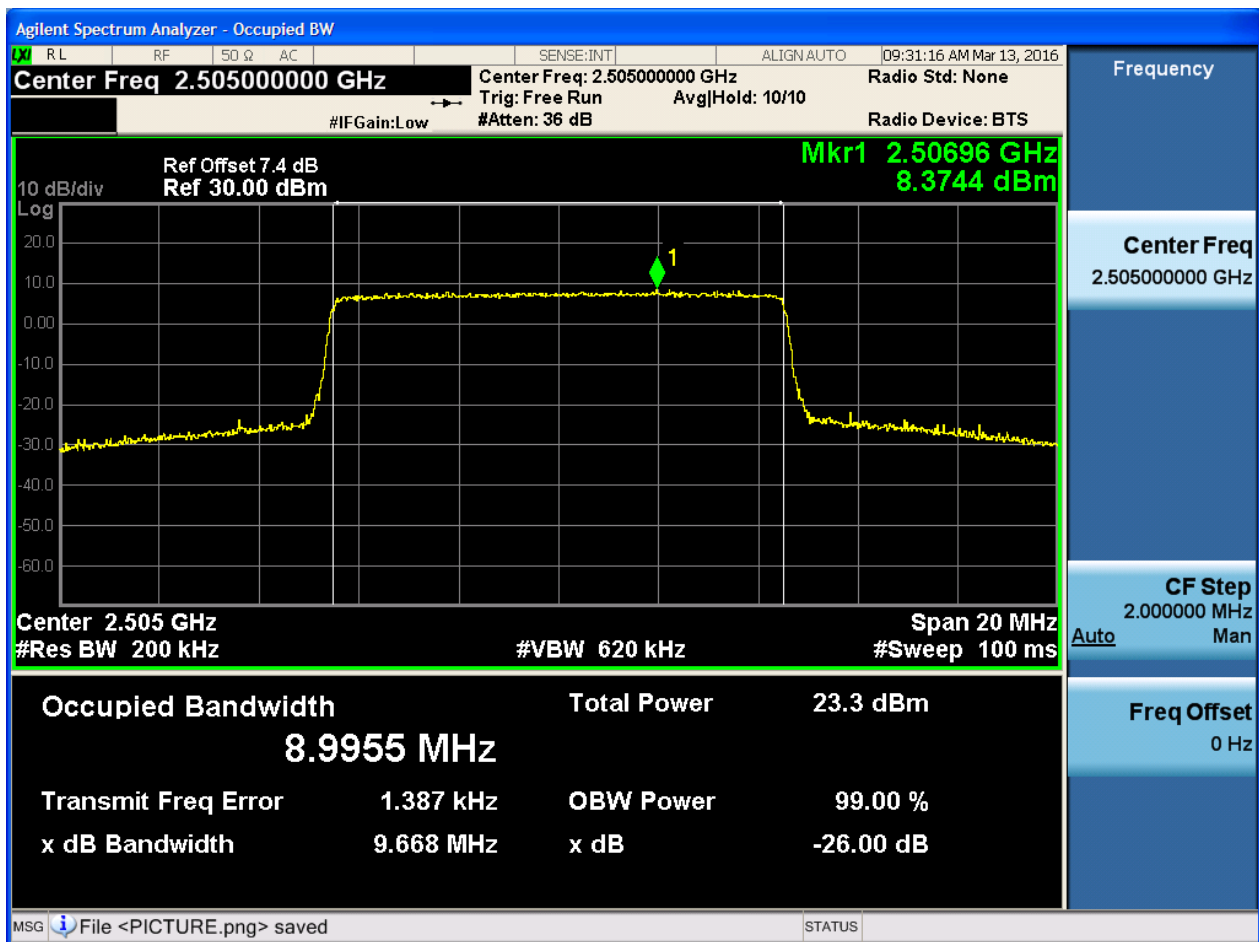




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

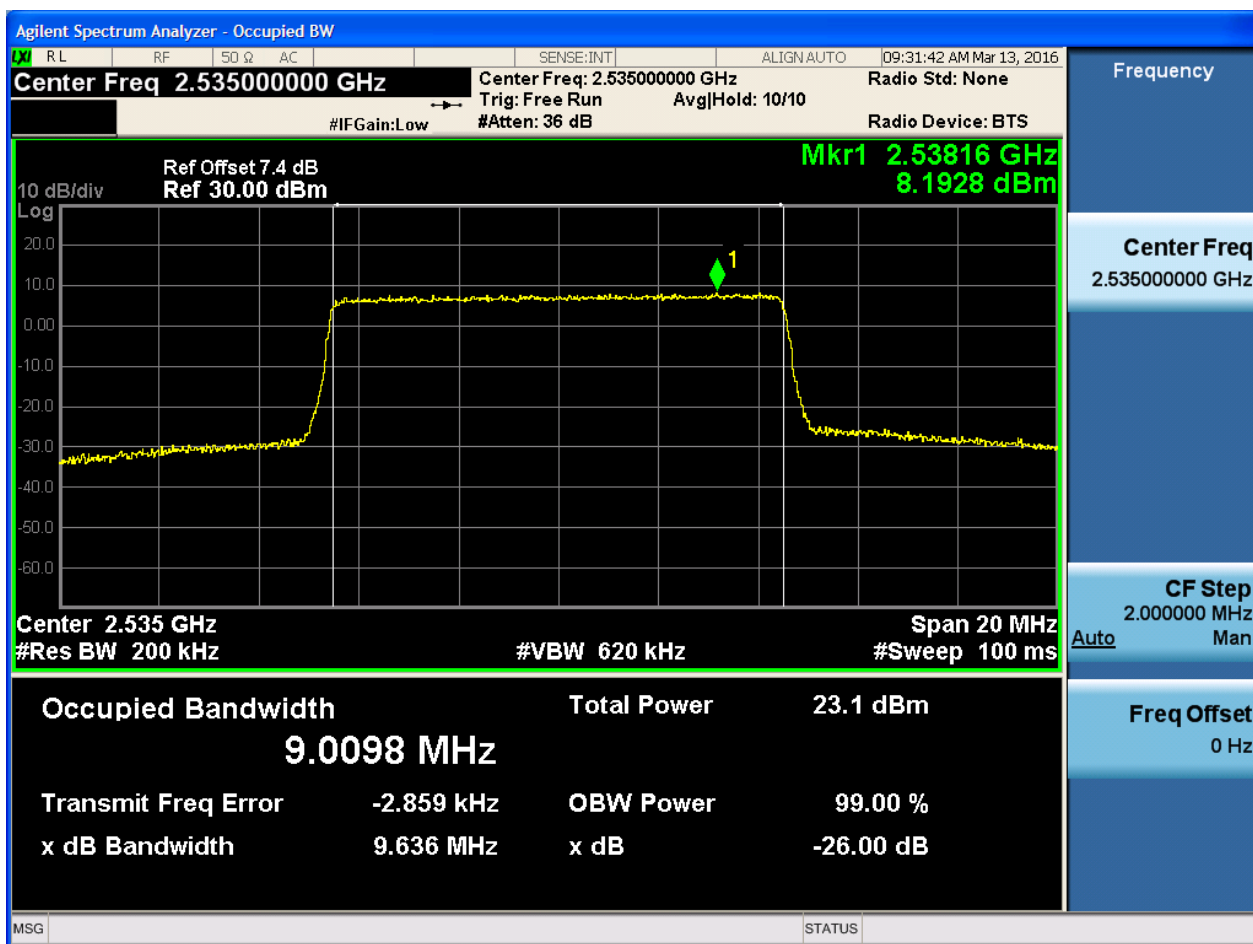
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

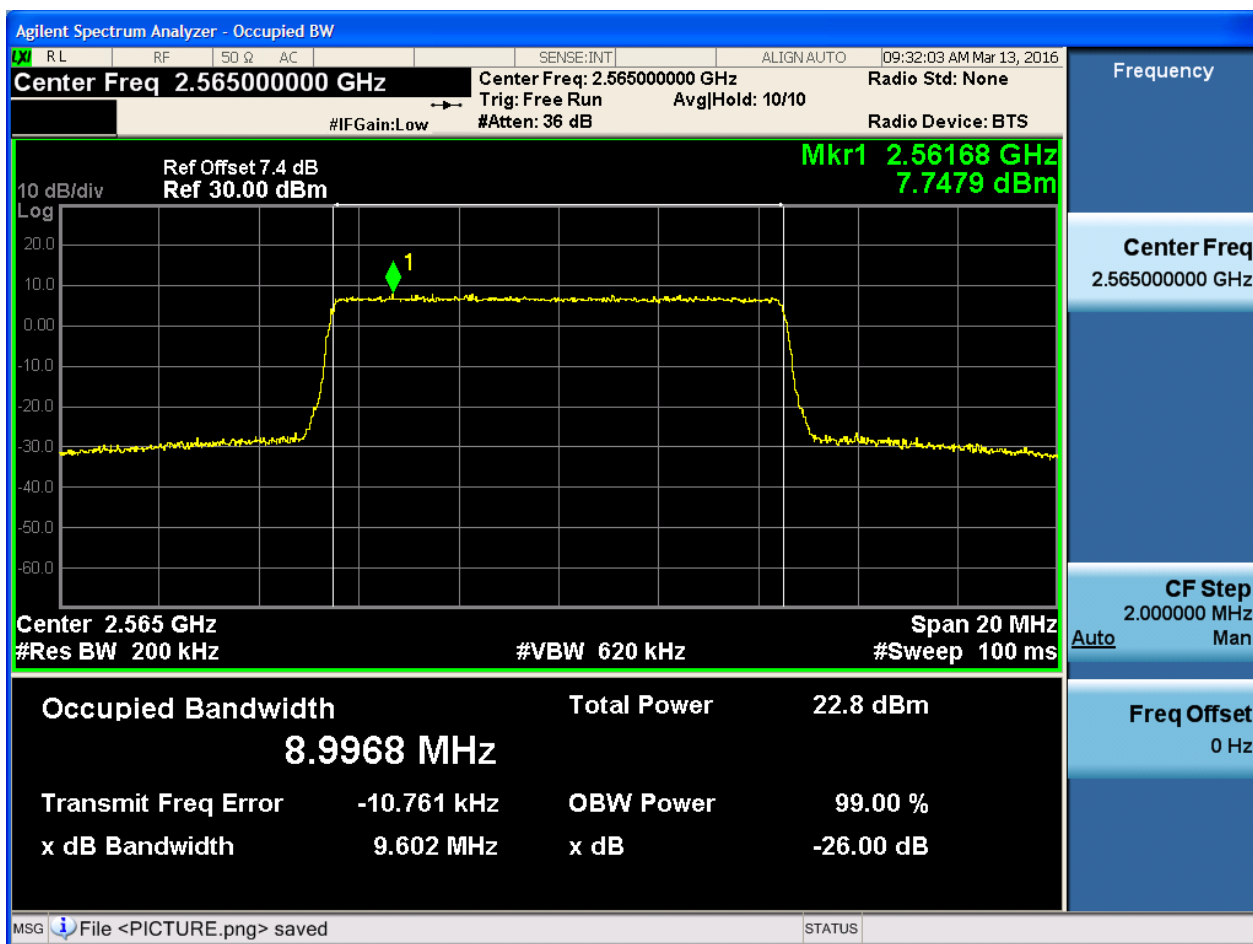
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

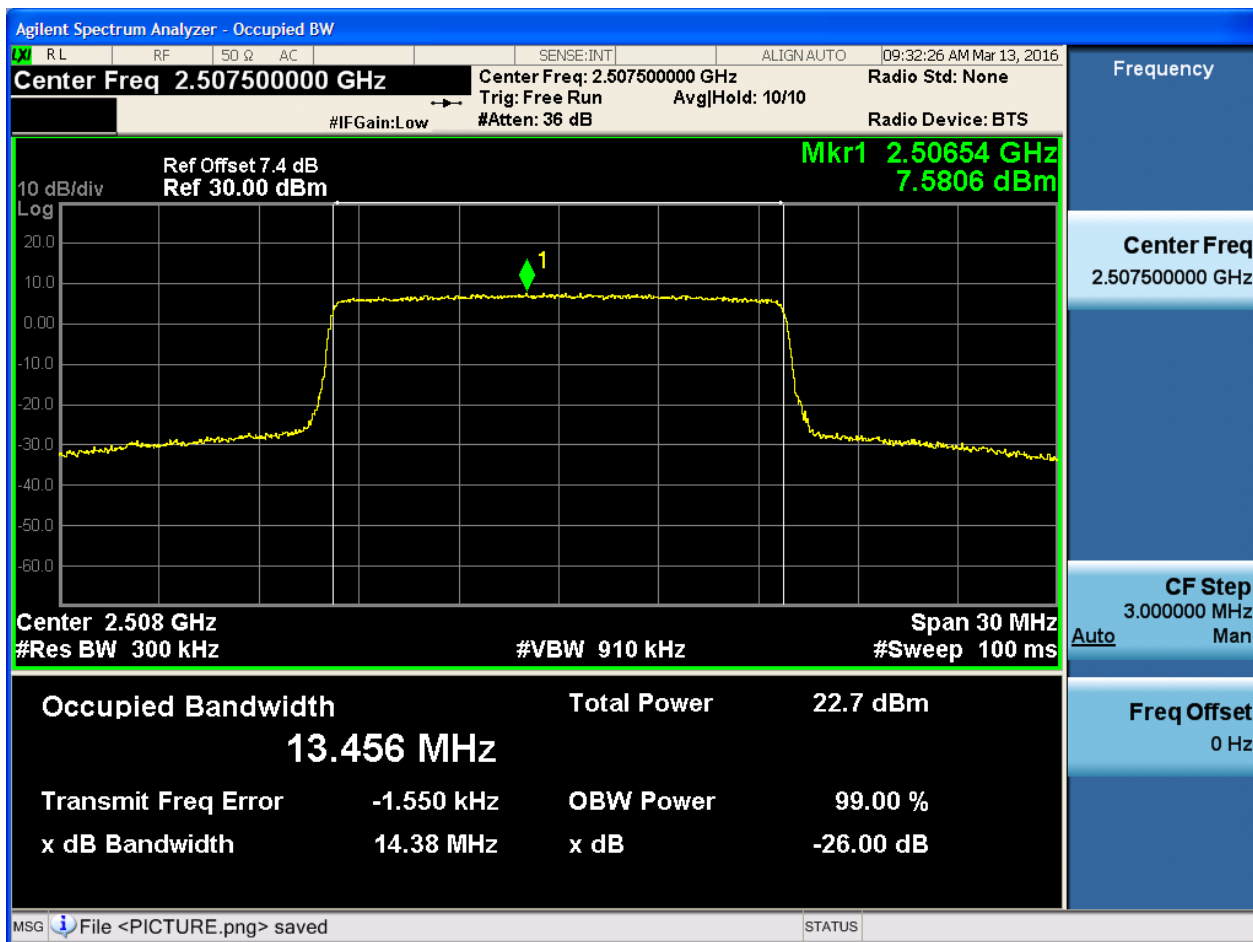




4.1.1.2.3 Test Bandwidth = 15

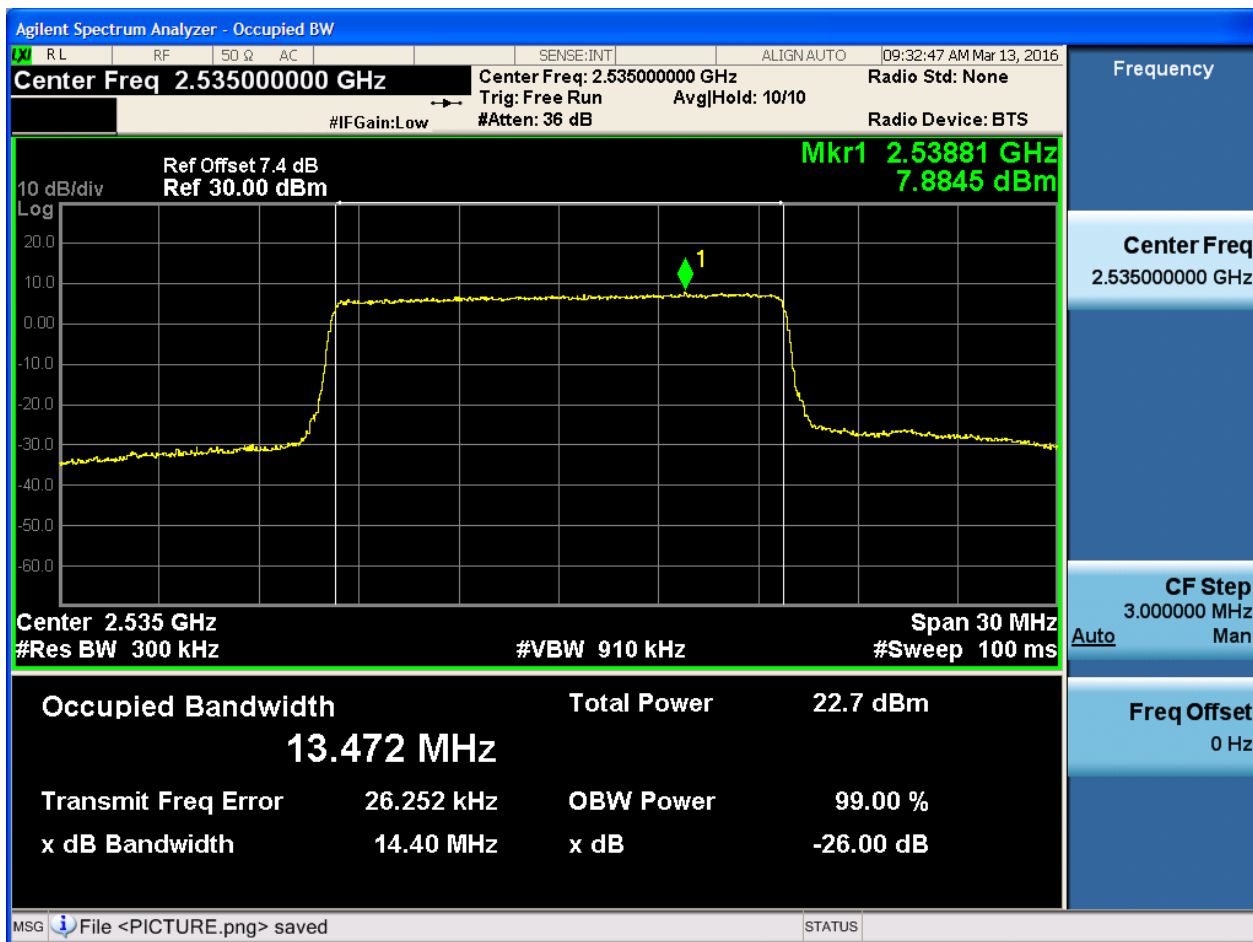
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



4.1.1.2.3.2 Test Channel = MCH

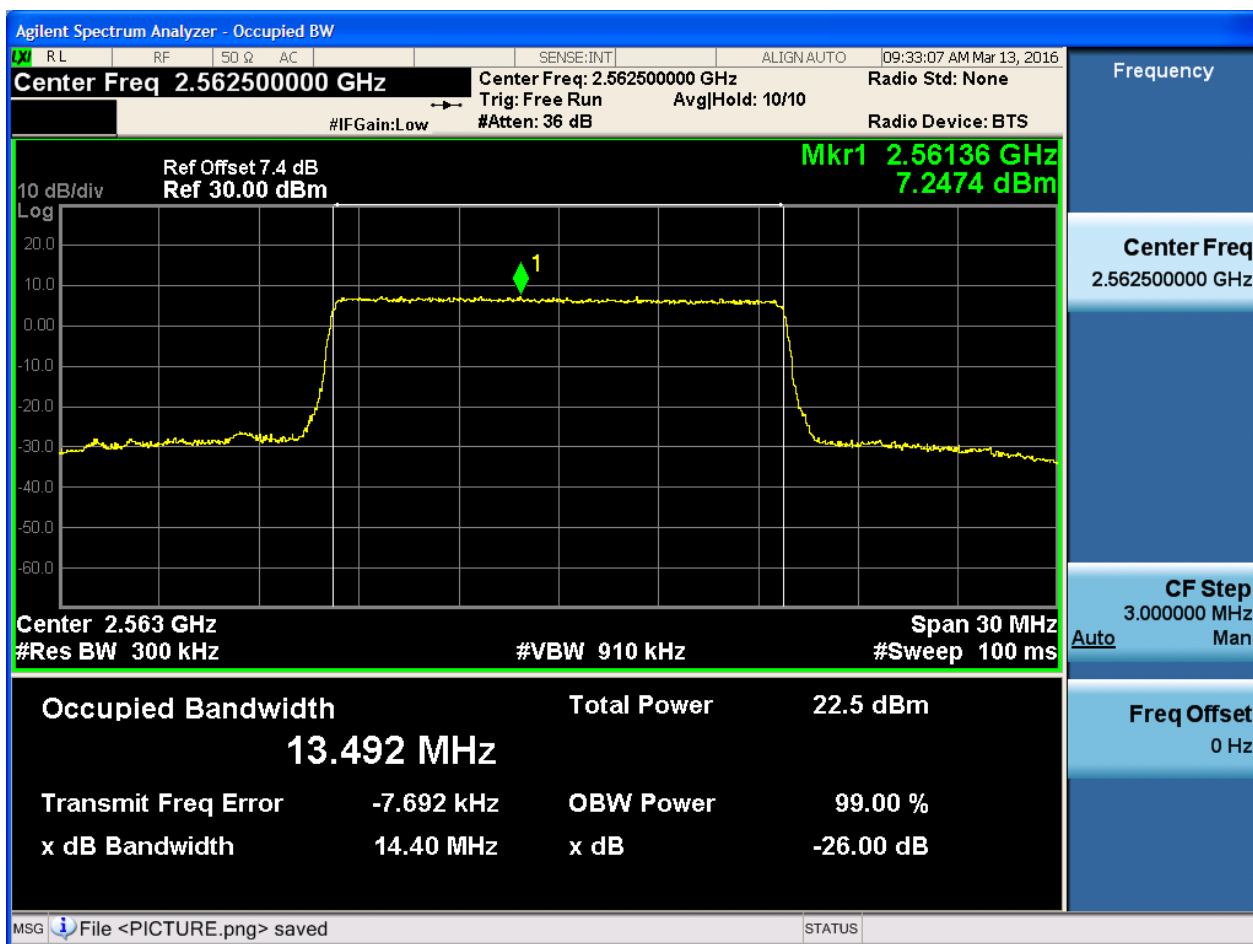
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

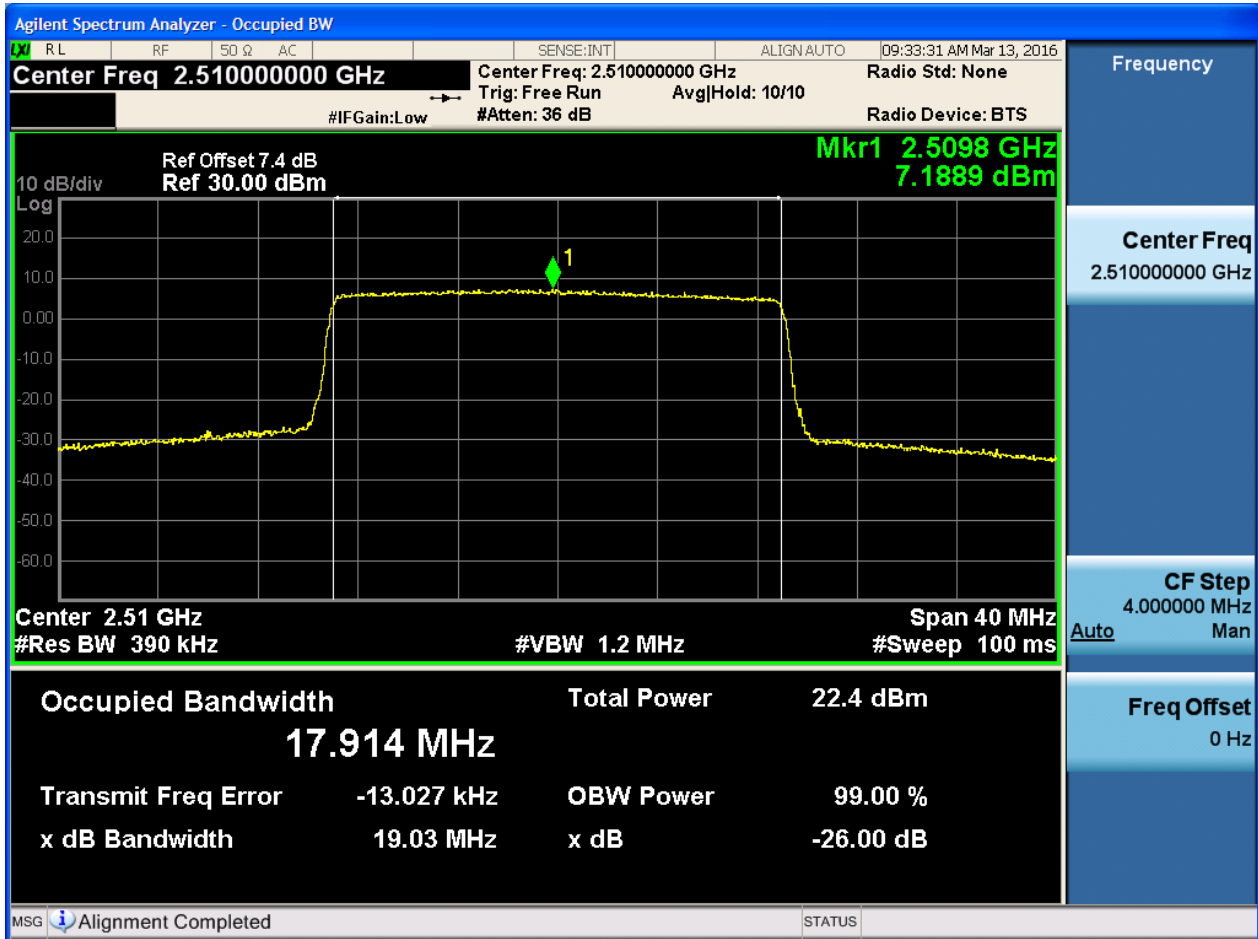




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

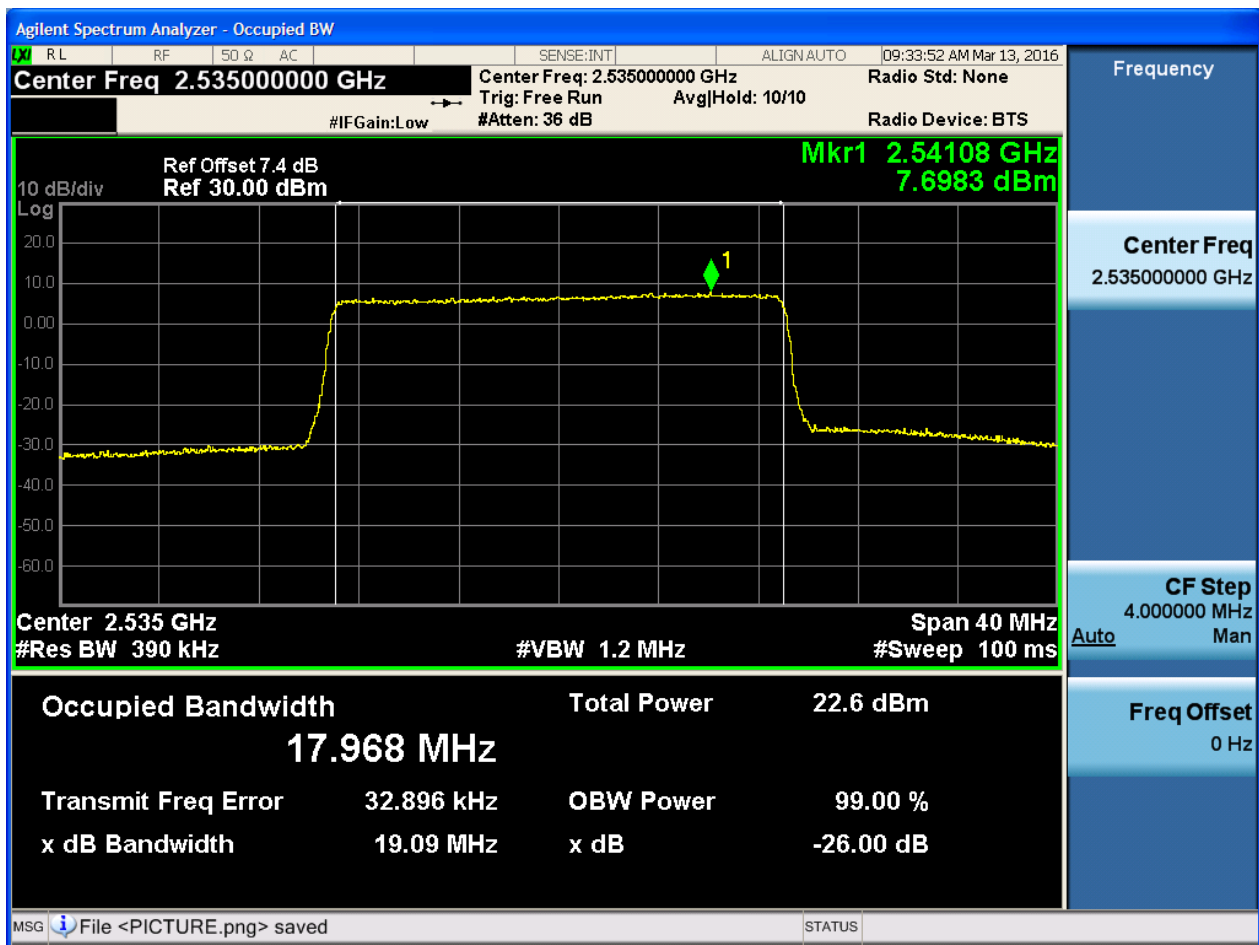
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

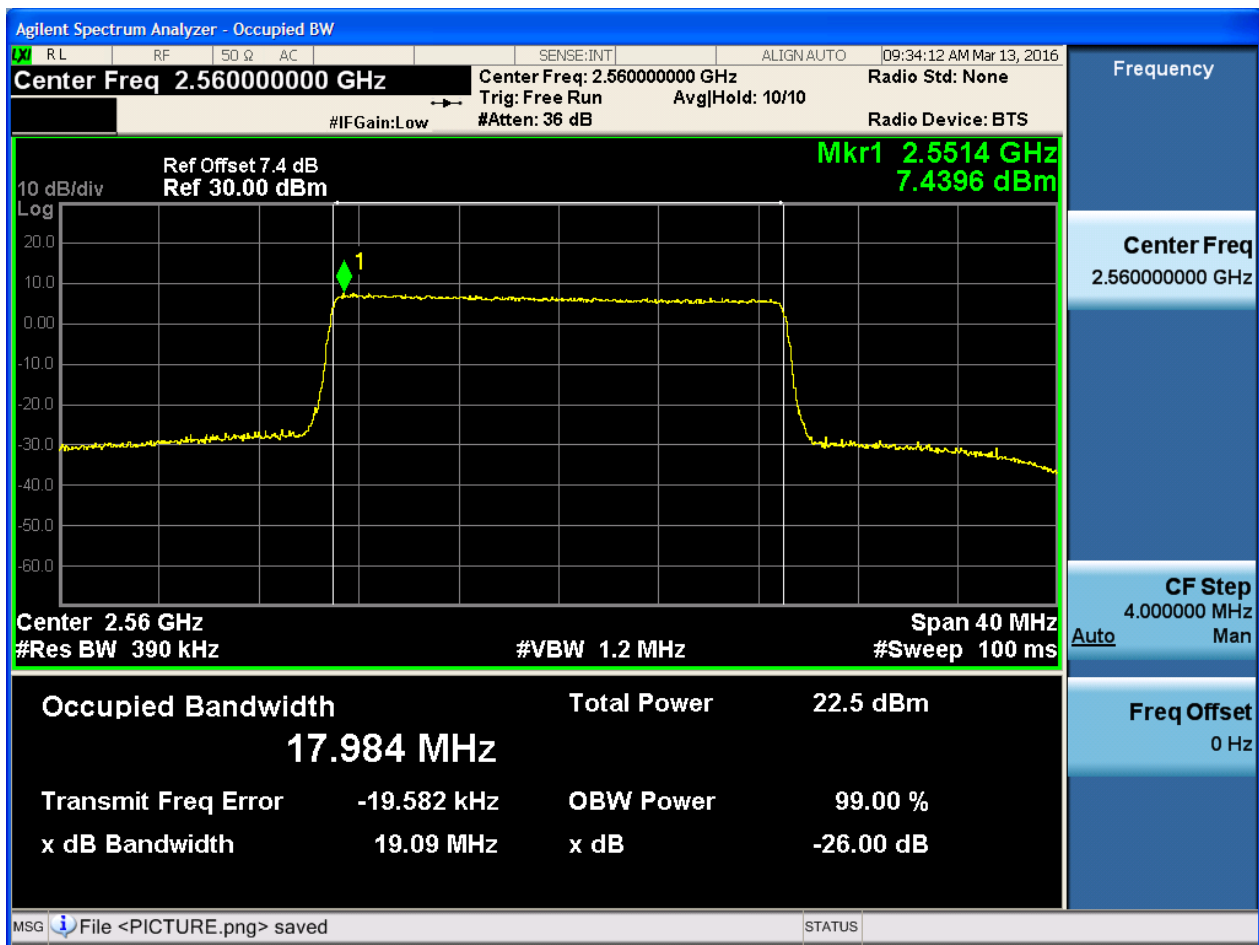
4.1.1.2.4.2.1 Test RB = RB100#0





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

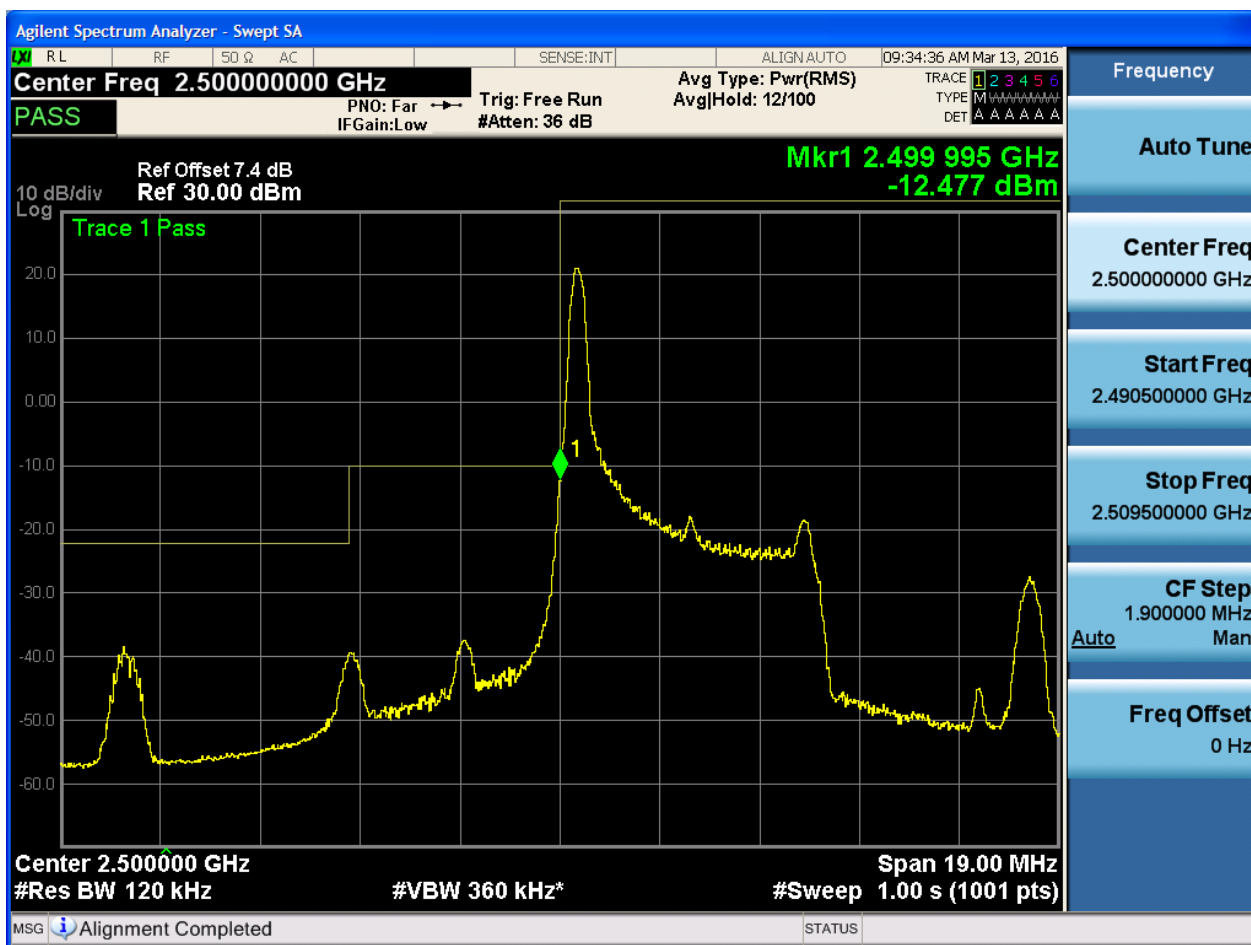
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

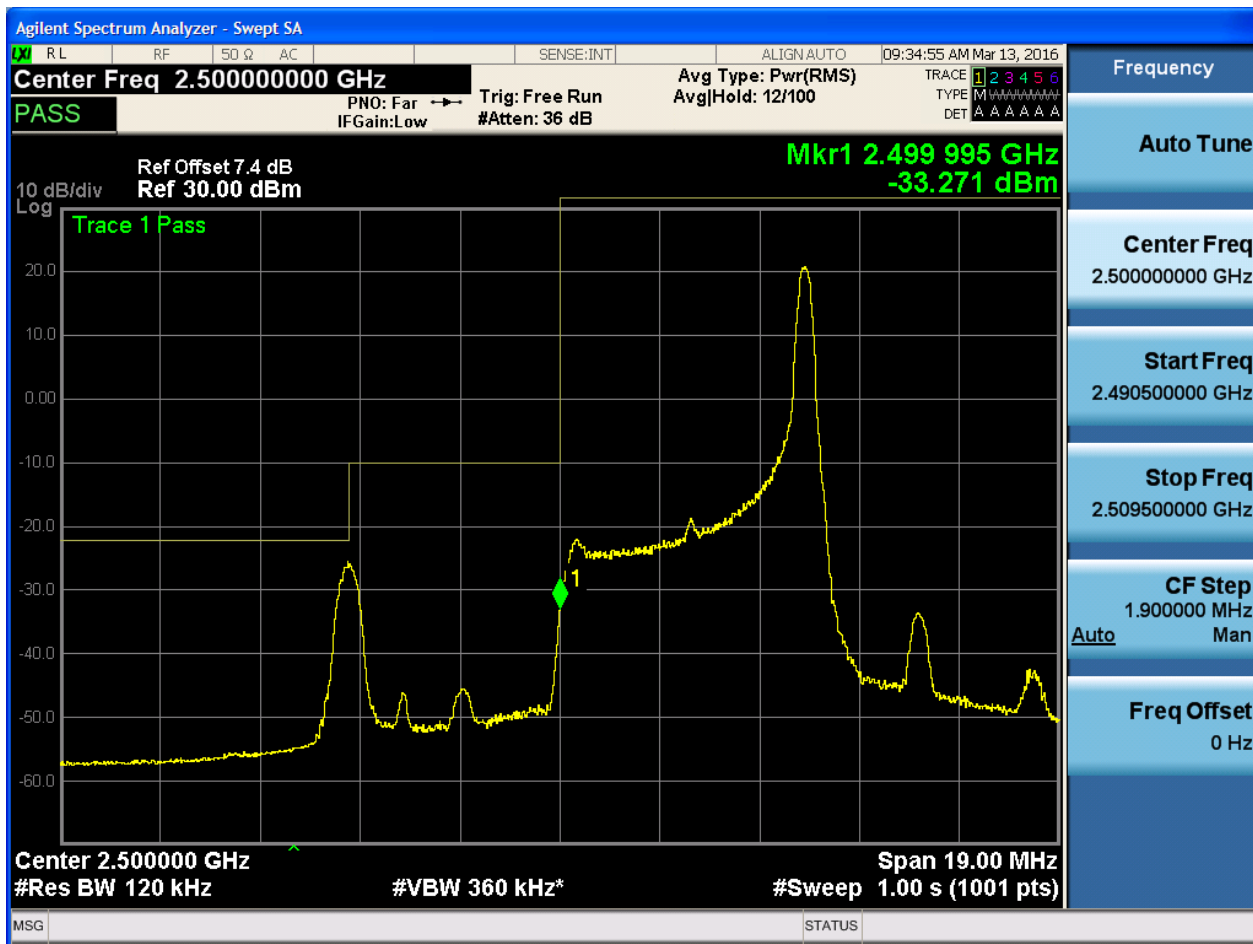
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



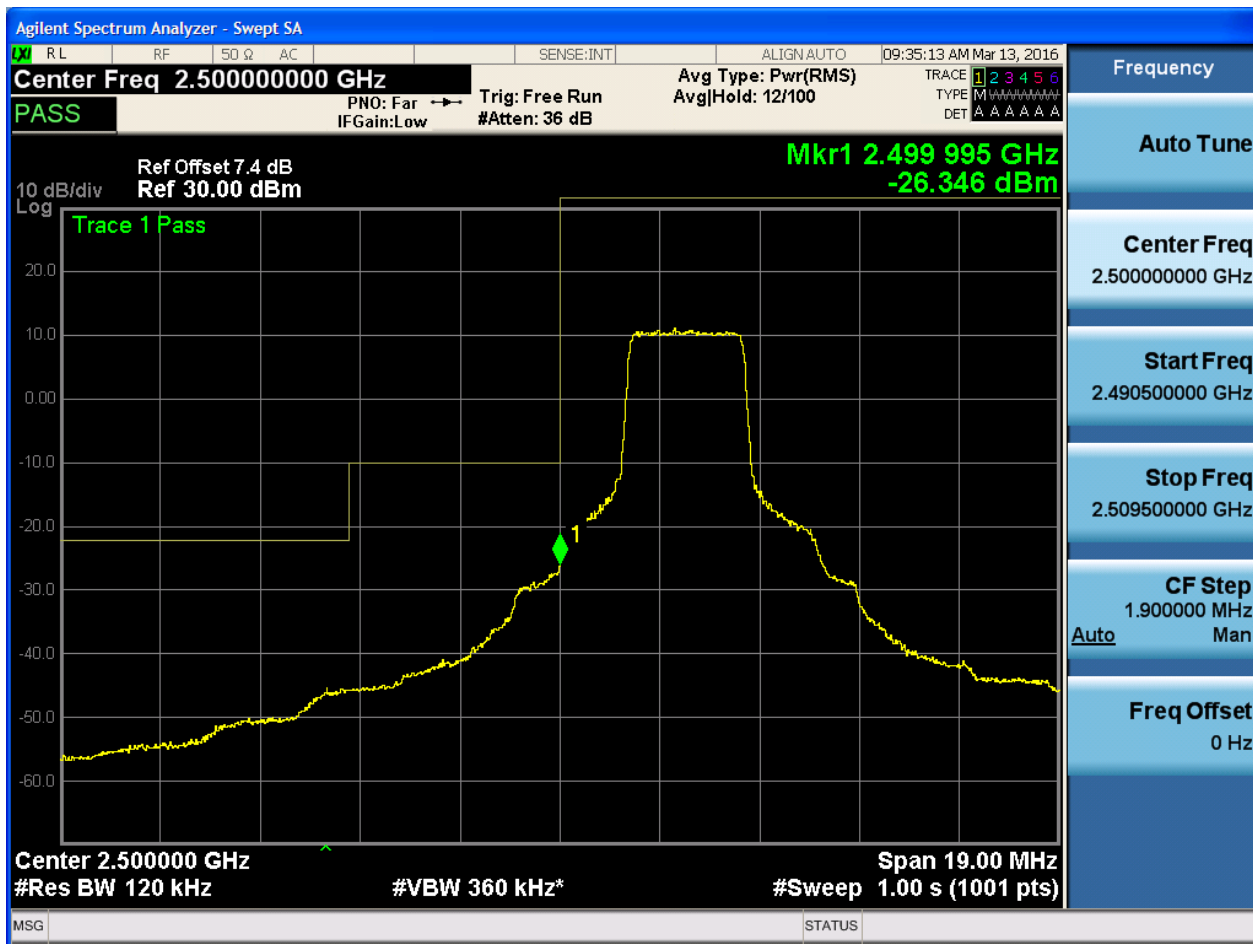


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6



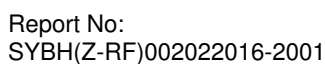


5.1.1.1.1.4 Test RB = RB25#0





5.1.1.1.1.2.1 Test RB = RB1#0



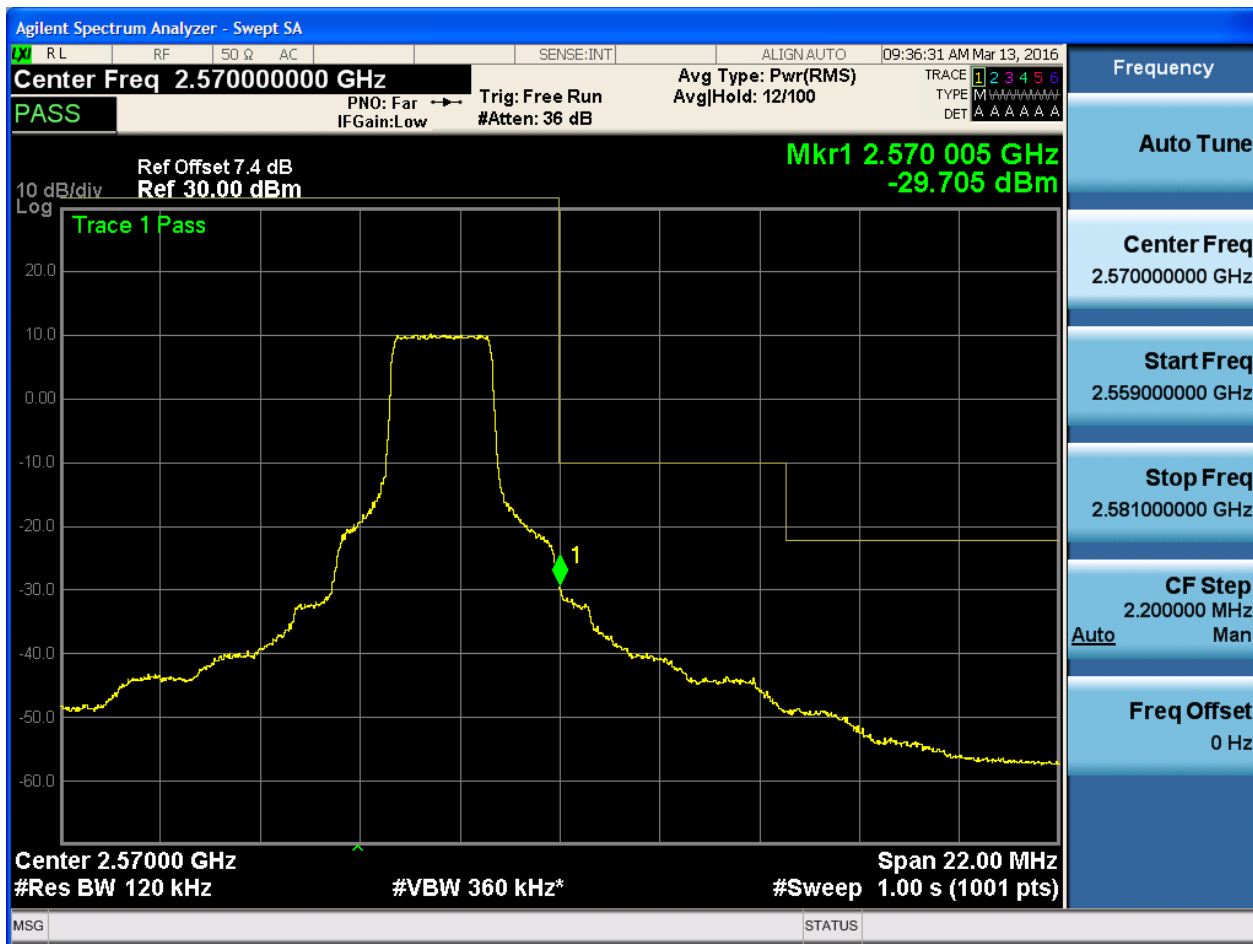


5.1.1.1.2.2 Test RB = RB1#24



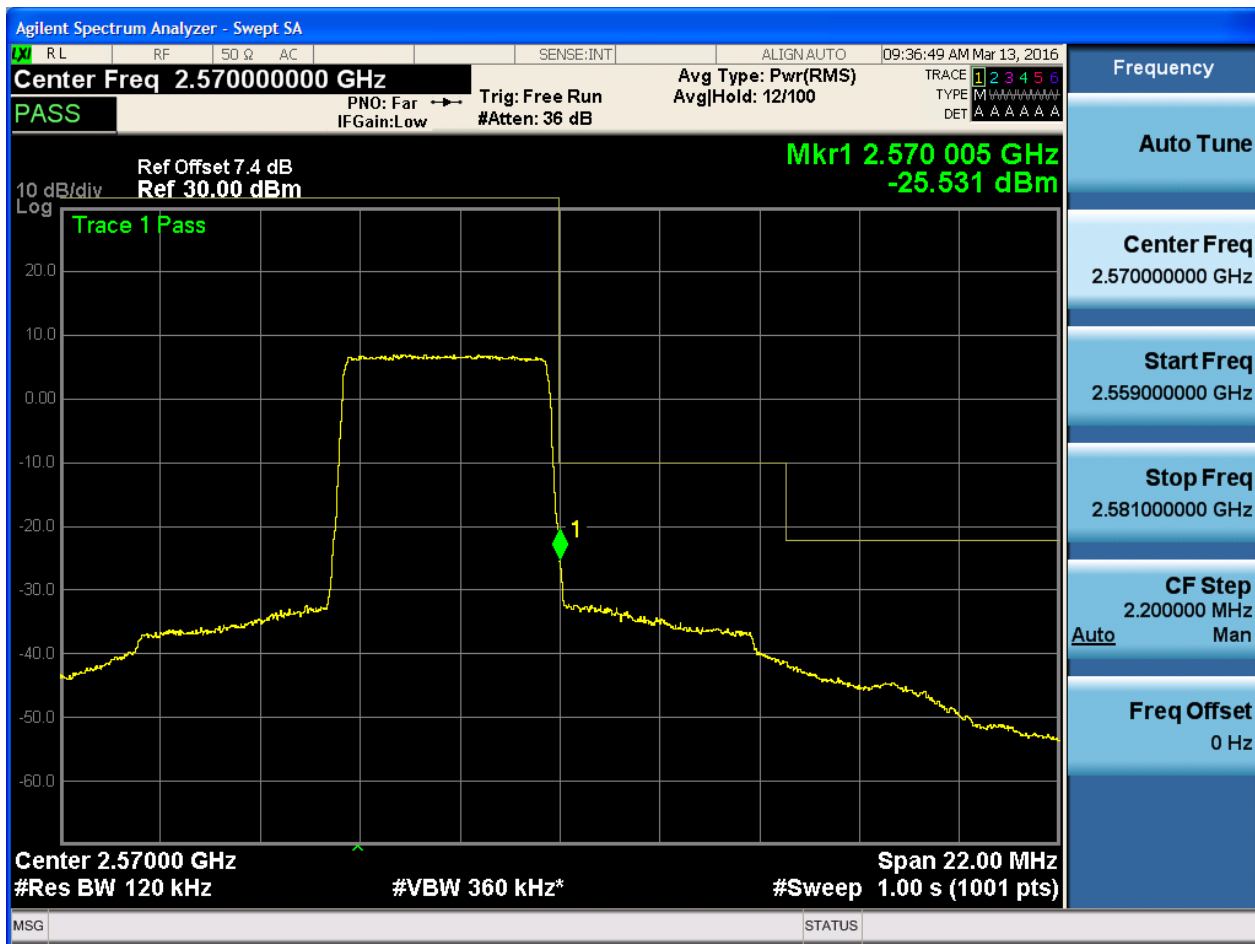


5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

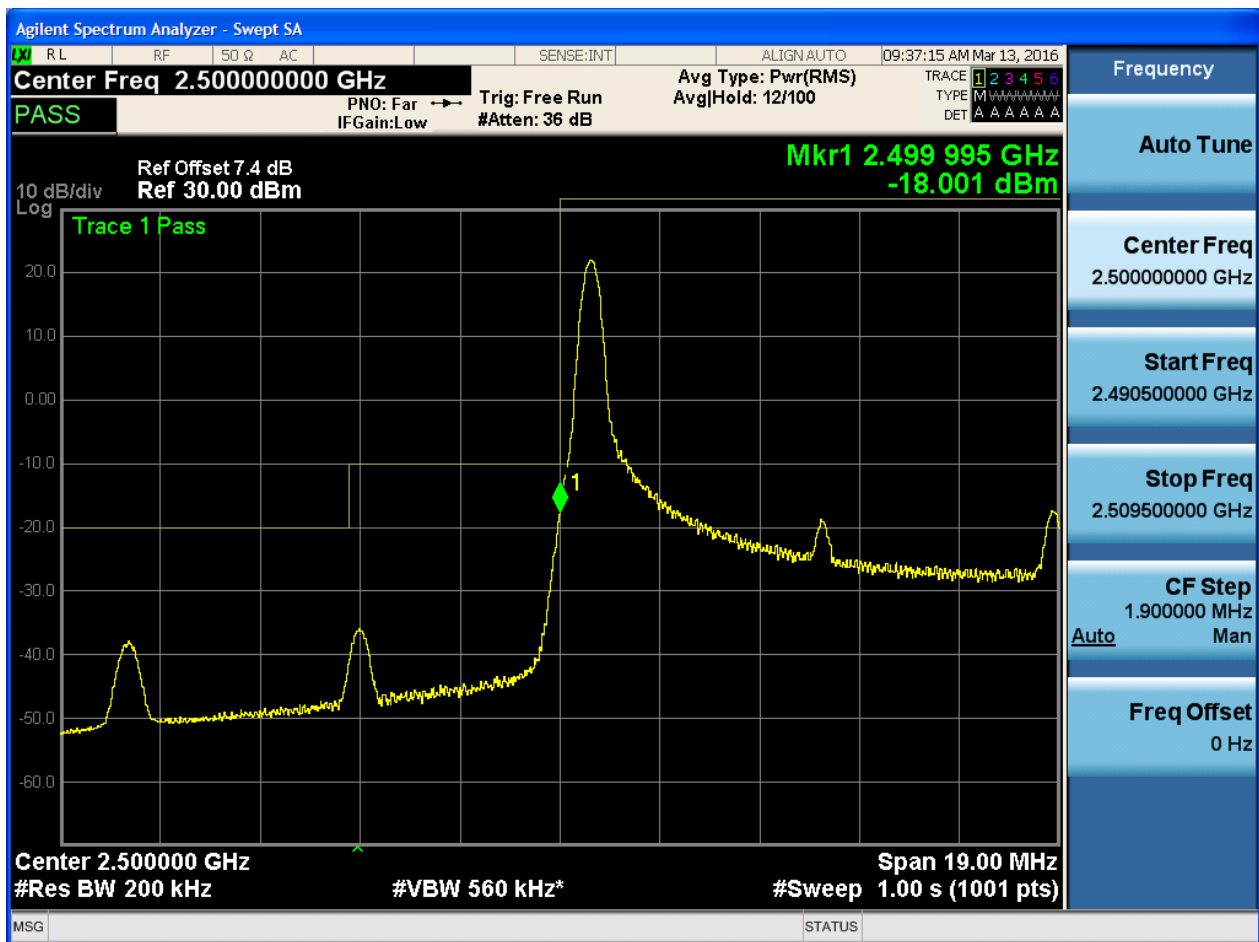




5.1.1.1.2 Test Bandwidth = 10

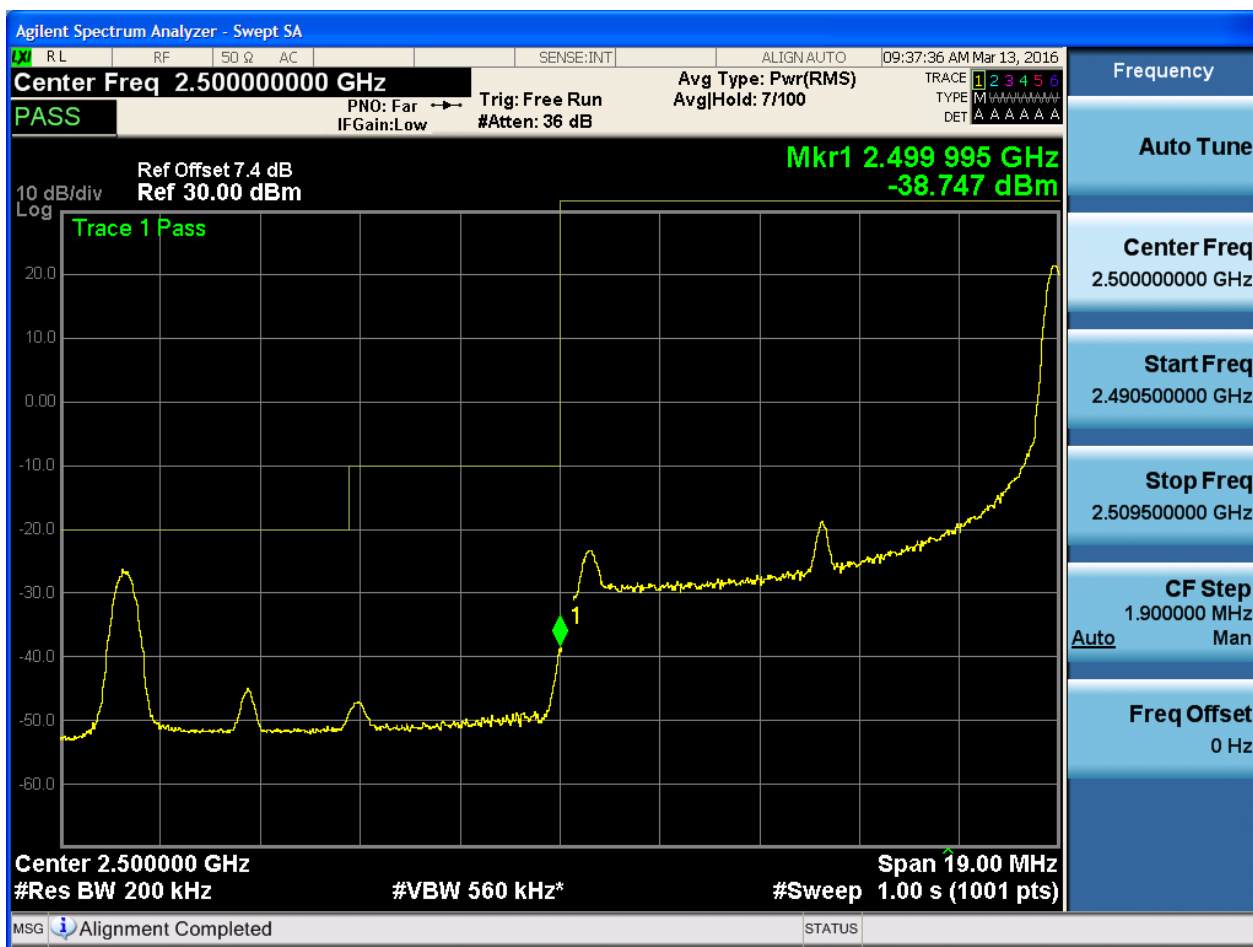
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49



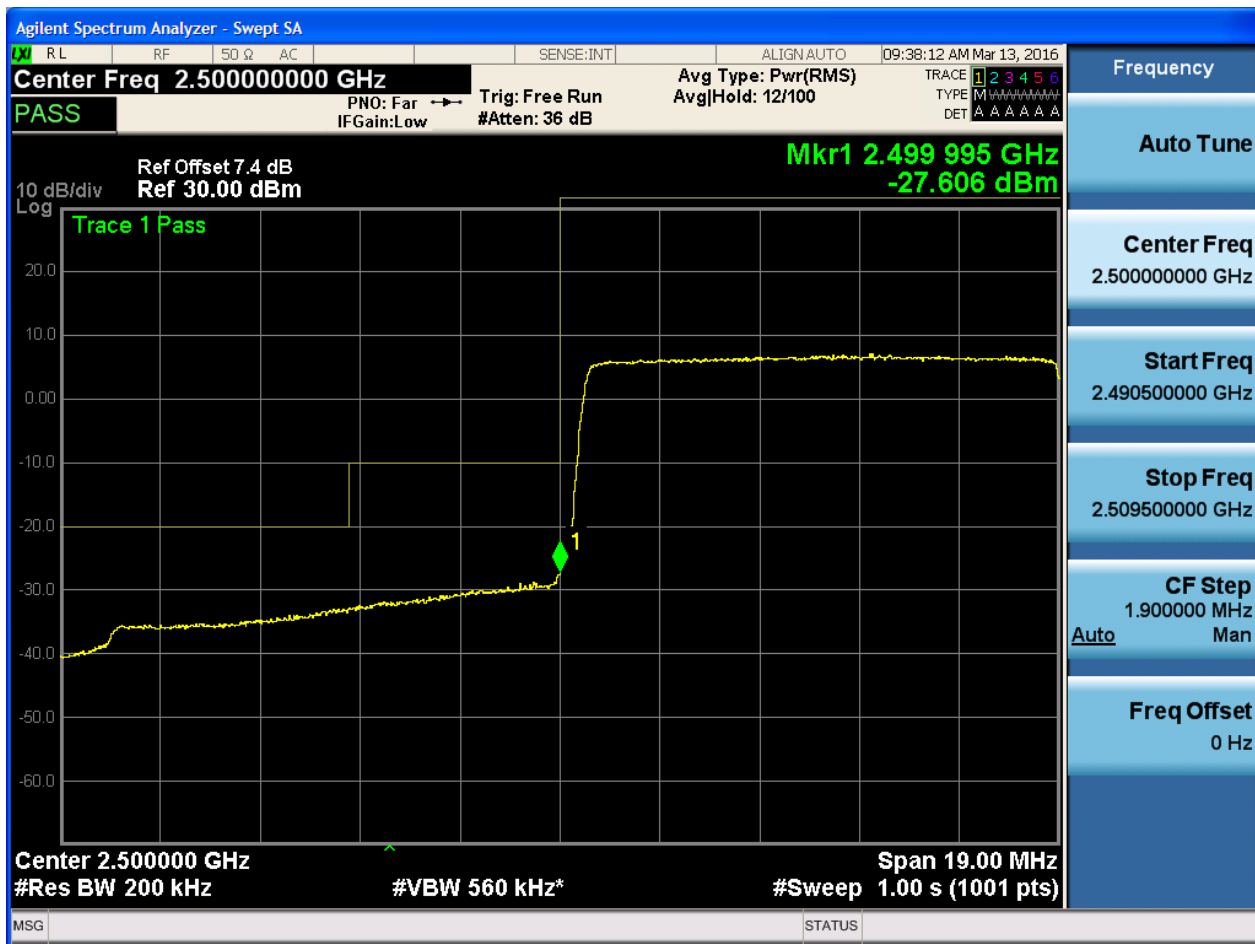


5.1.1.1.2.1.3 Test RB = RB25#13





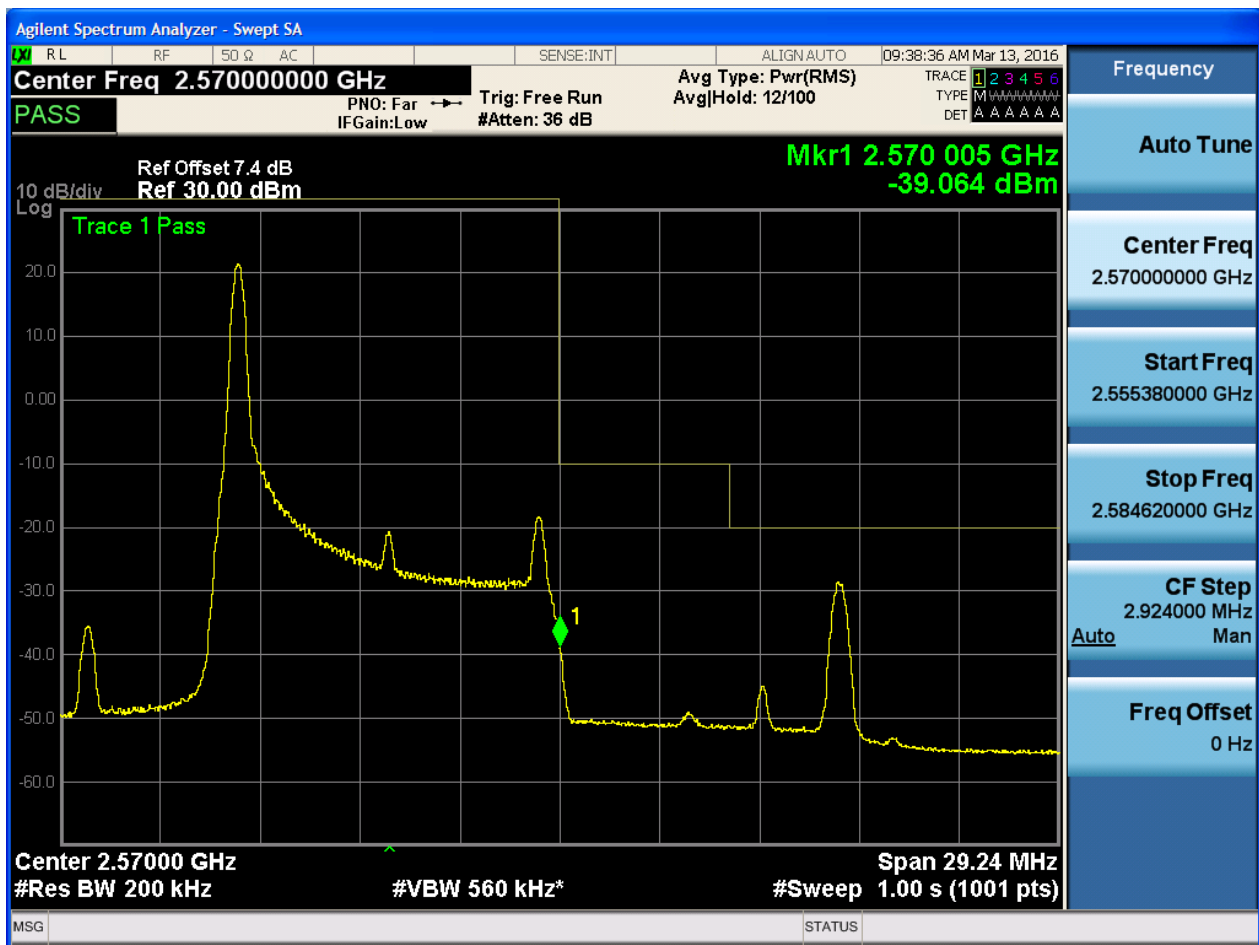
5.1.1.1.2.1.4 Test RB = RB50#0





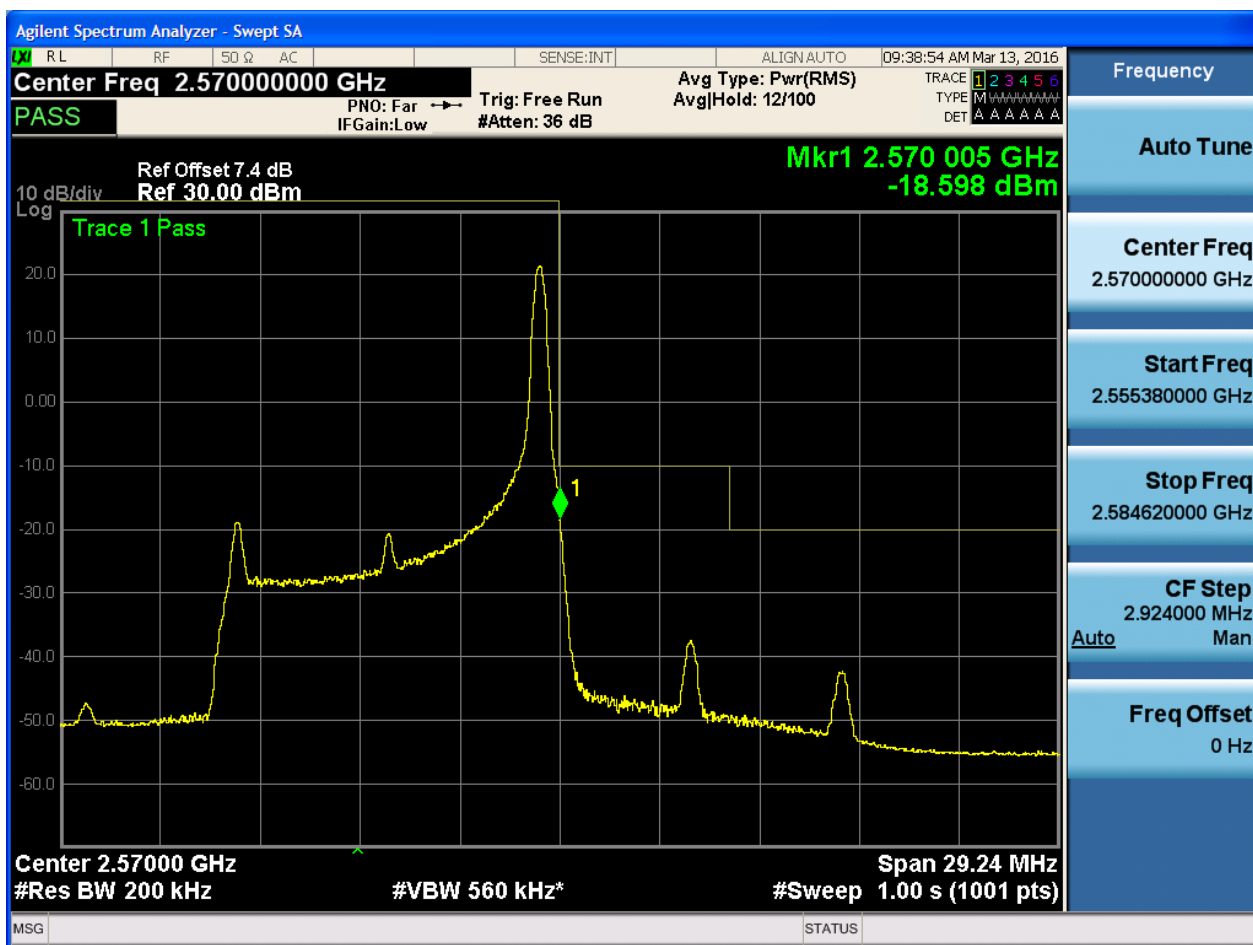
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49



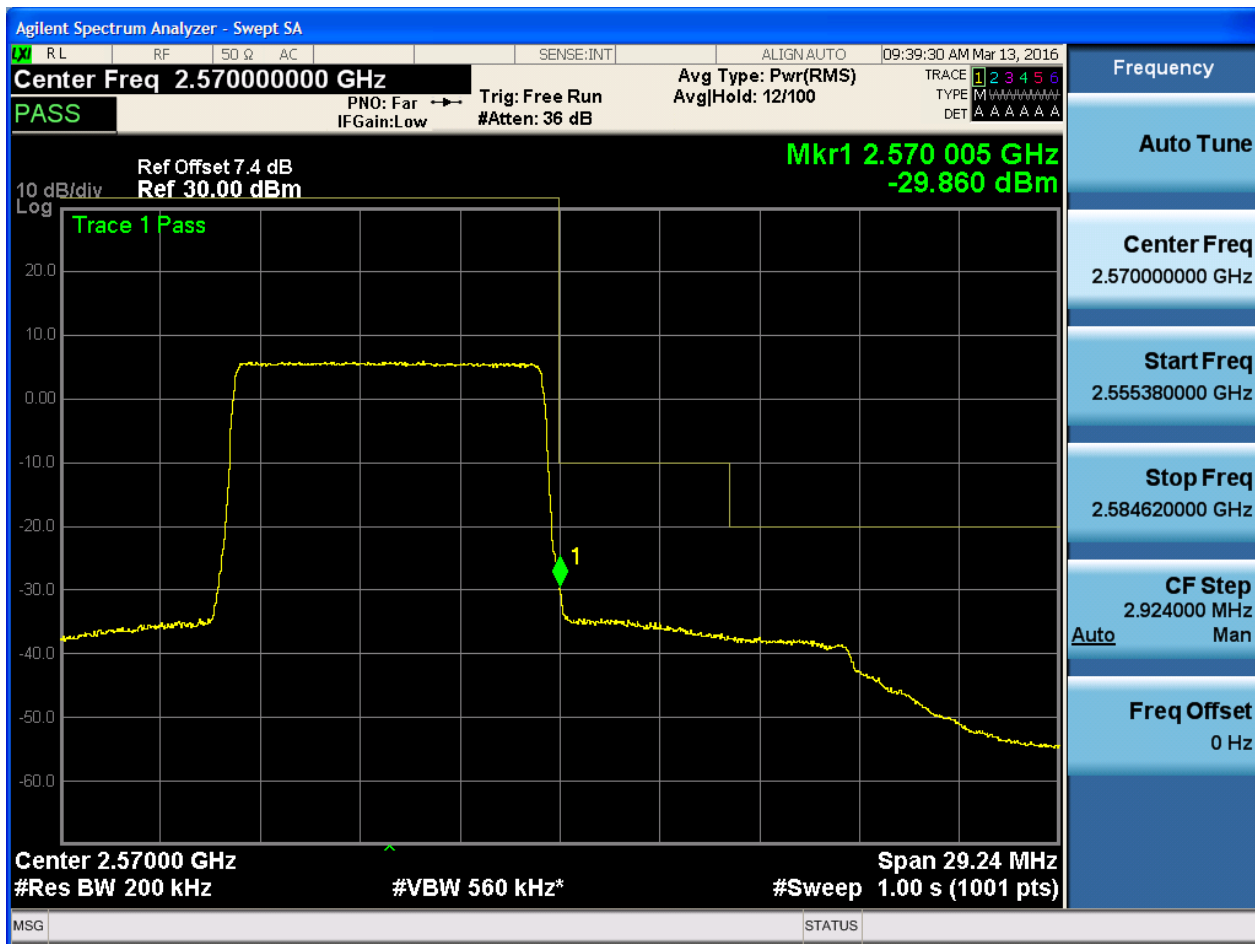


5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0







Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.4 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-41.112 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 300 kHz
#VBW 820 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.1.1.3.1.3 Test RB = RB36#18





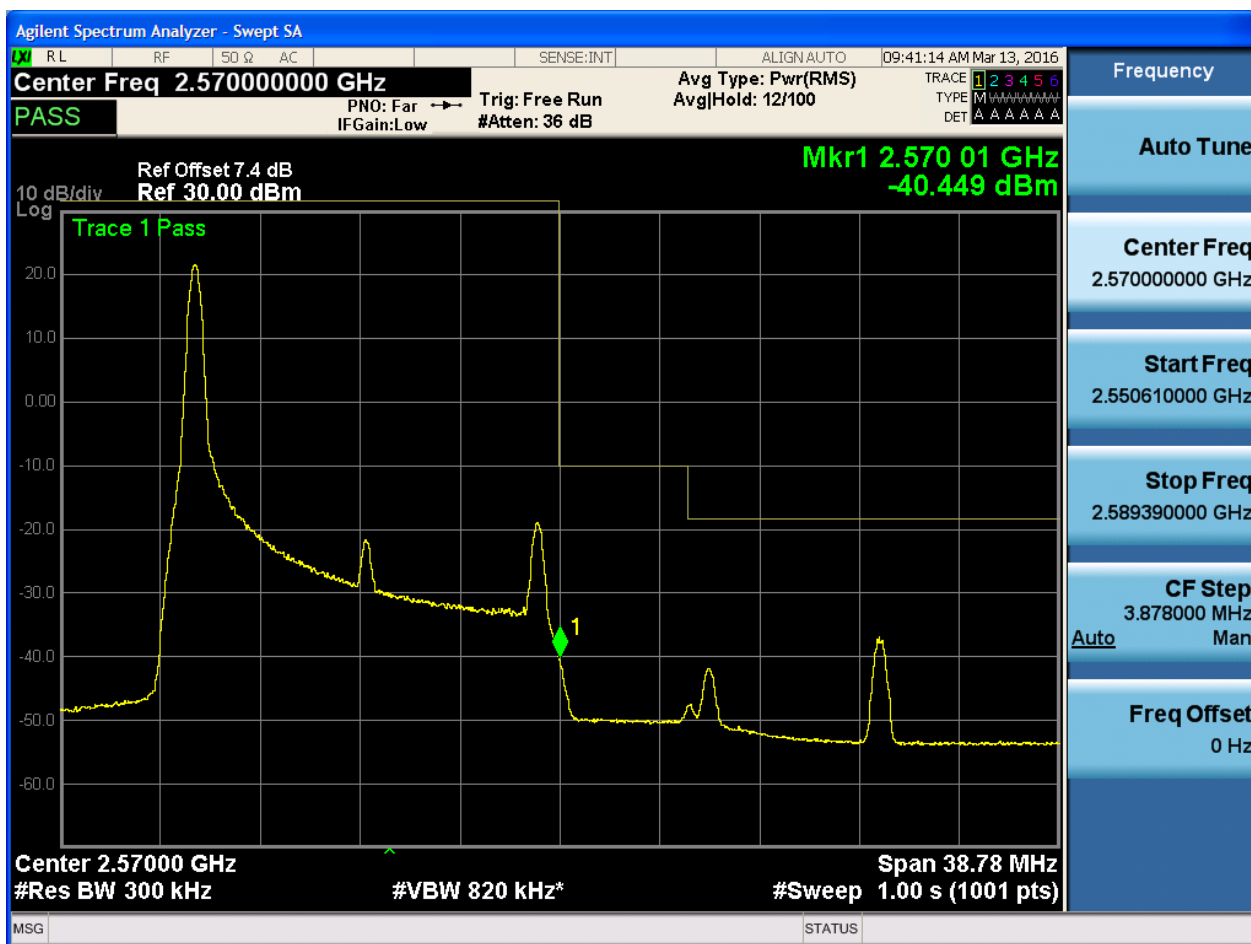
5.1.1.1.3.1.4 Test RB = RB75#0





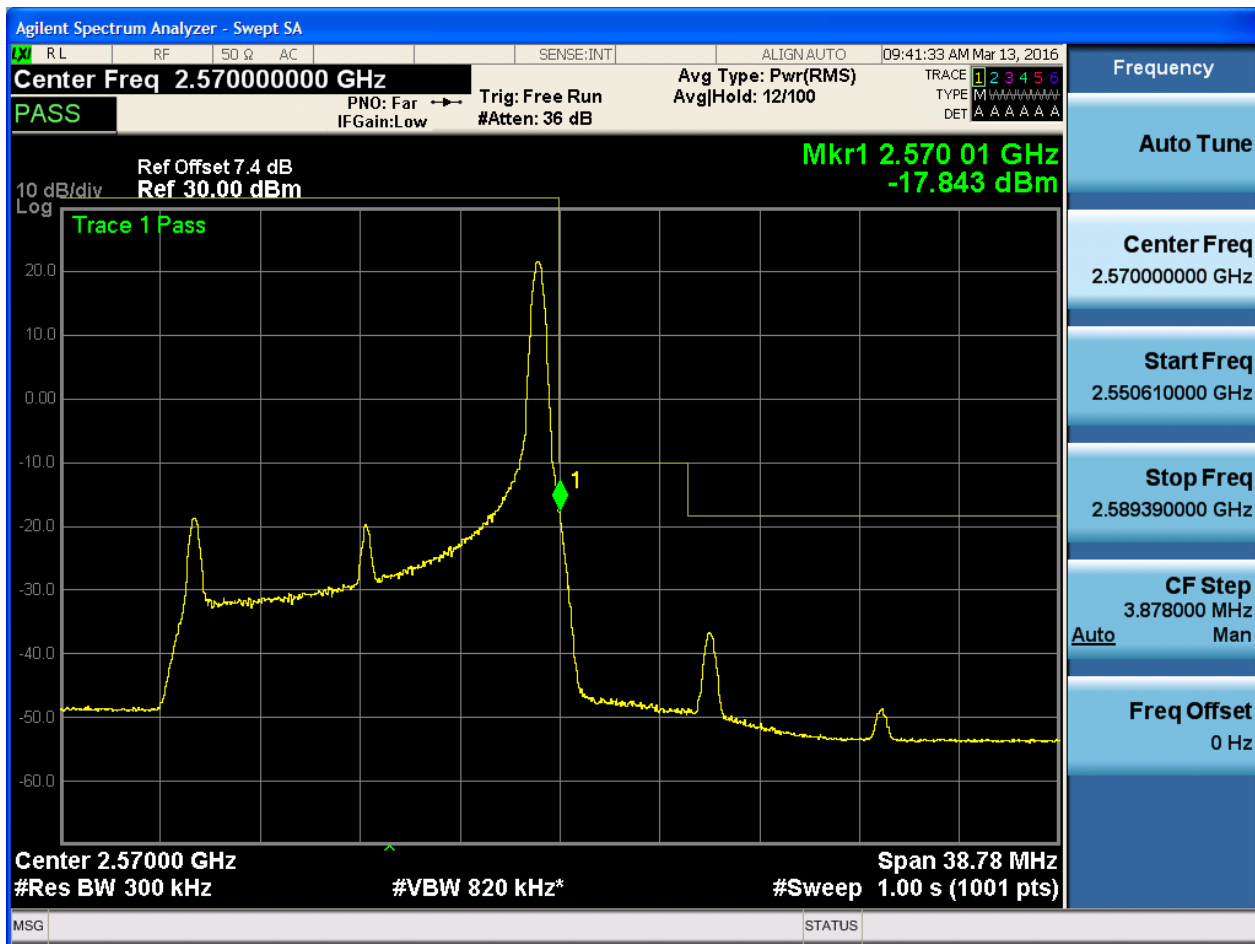
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0



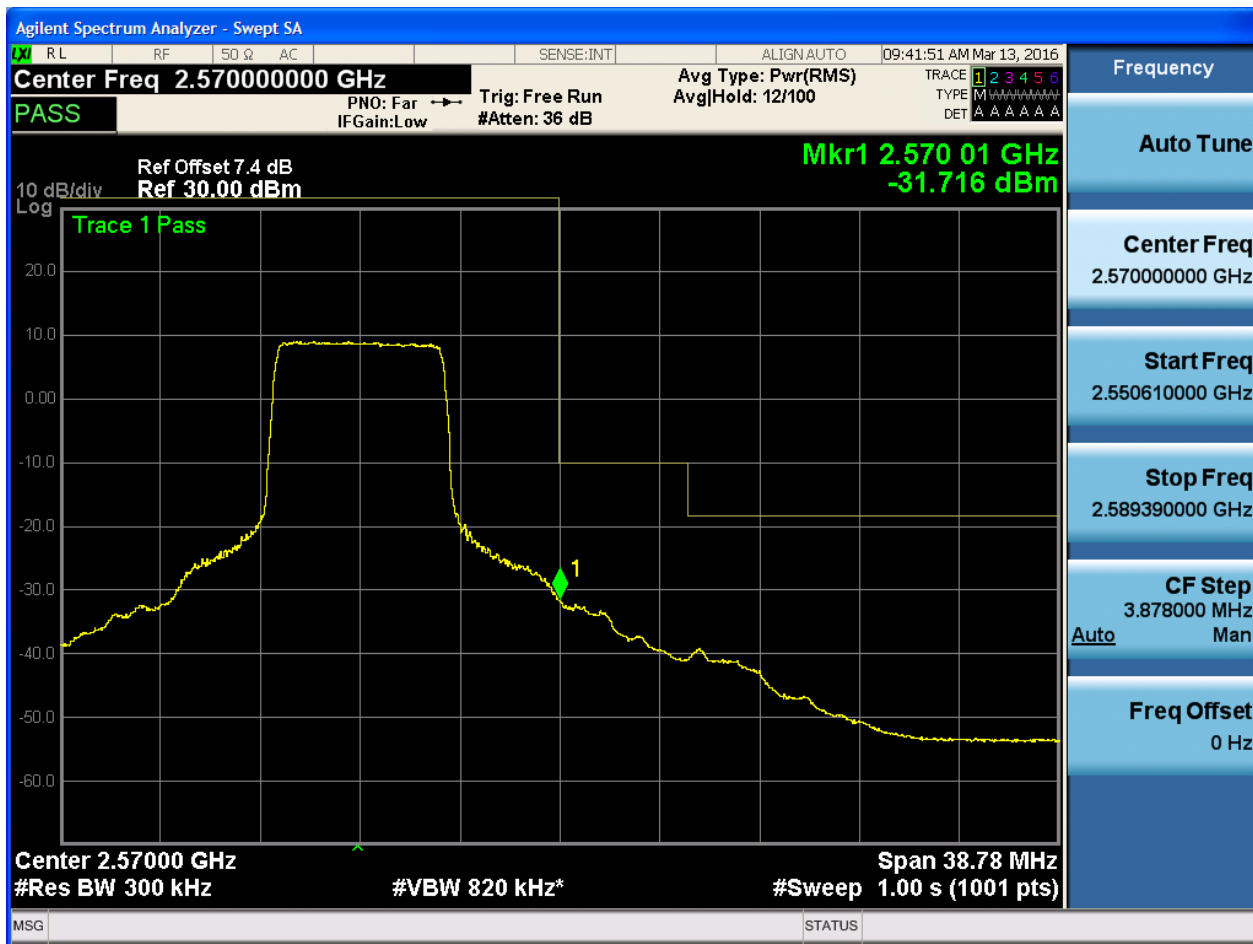


5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





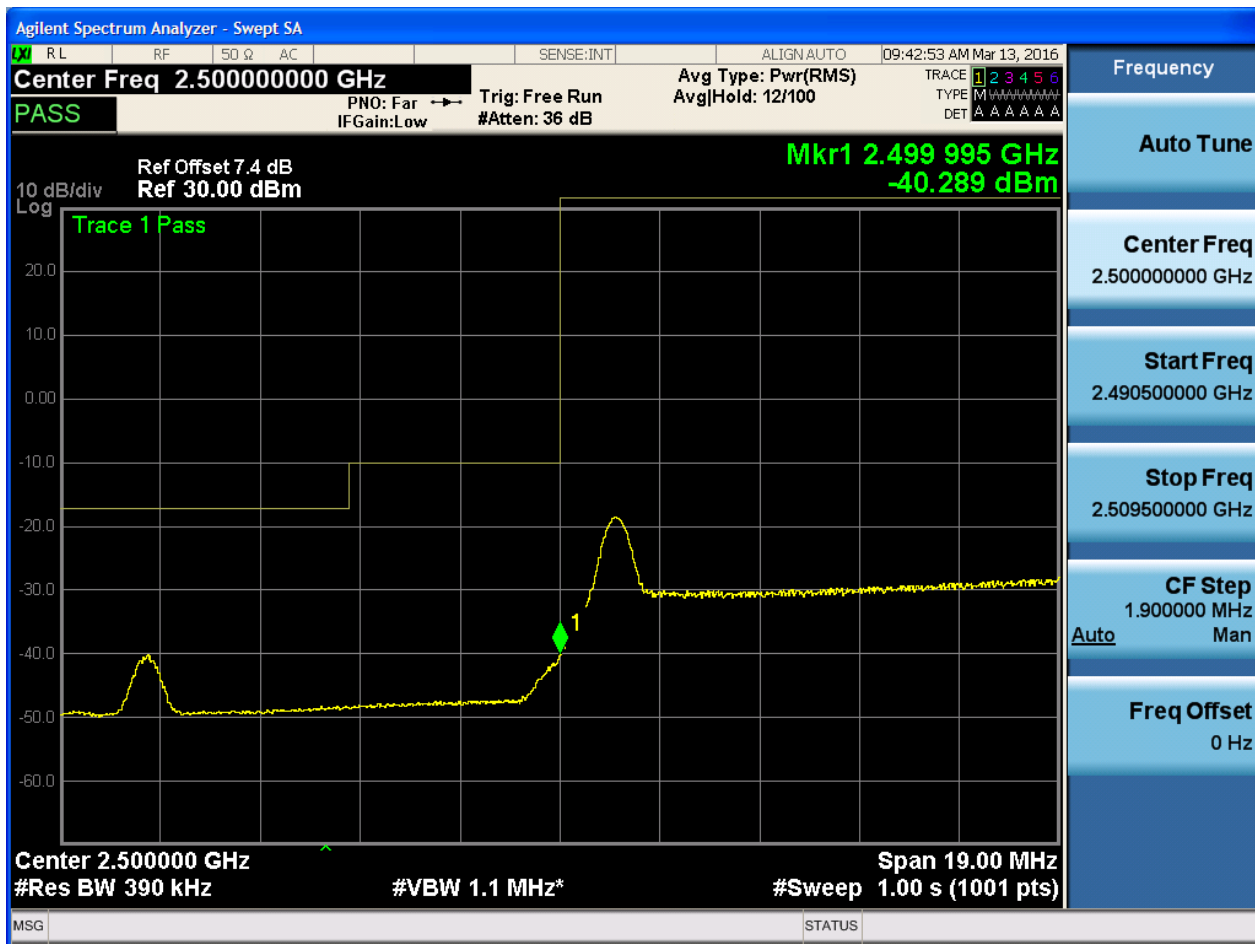
5.1.1.1.3.2.4 Test RB = RB75#0







5.1.1.1.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 09:43:11 AM Mar 13, 2016

Center Freq 2.50000000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PASS PNO: Far Trig: Free Run Avg|Hold: 12/100 TYPE M W W W W W W W
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.4 dB Mkr1 2.499 995 GHz
Ref 30.00 dBm -31.928 dBm

10 dB/div Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 390 kHz #VBW 1.1 MHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.50000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

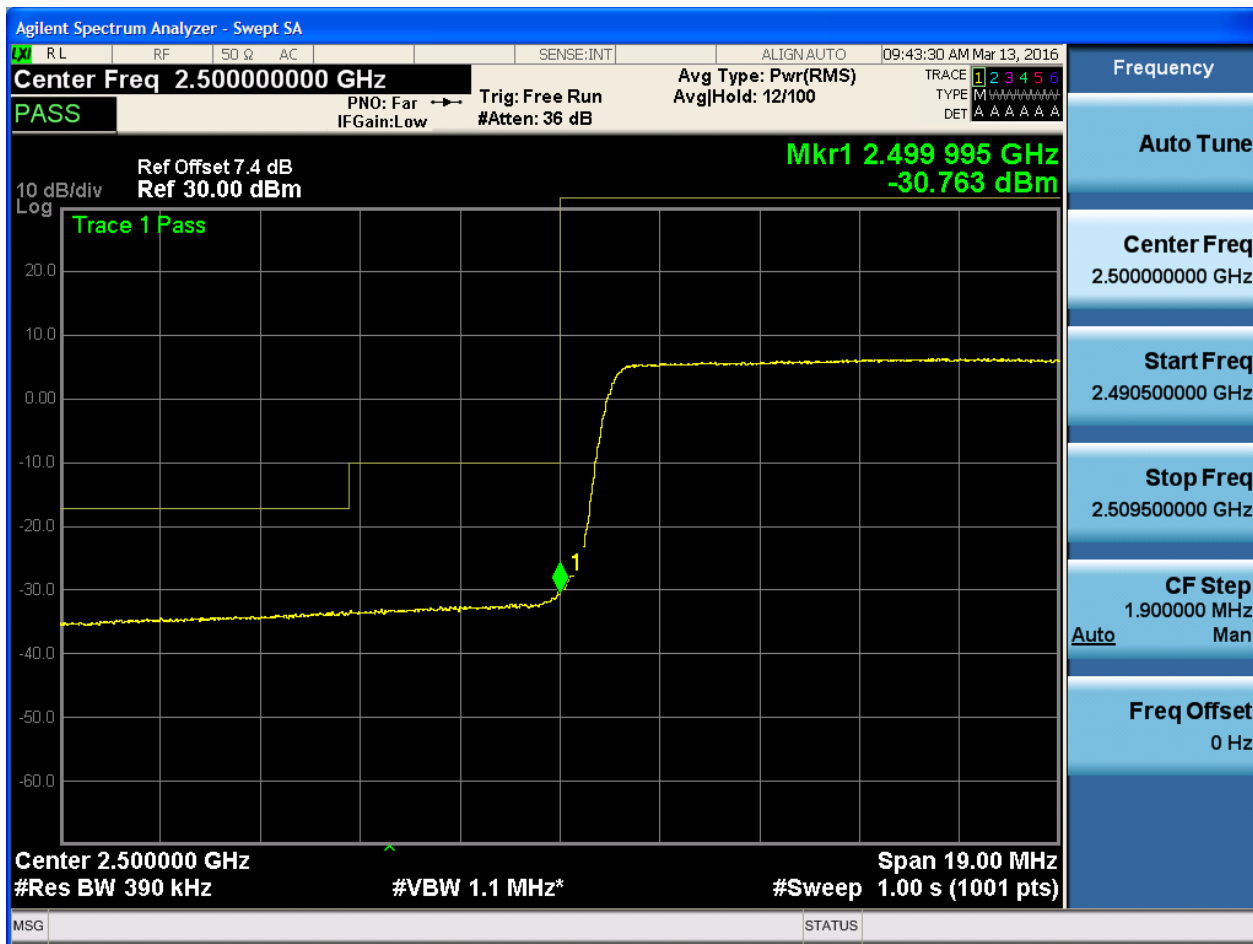
CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.1.1.4.1.4 Test RB = RB100#0





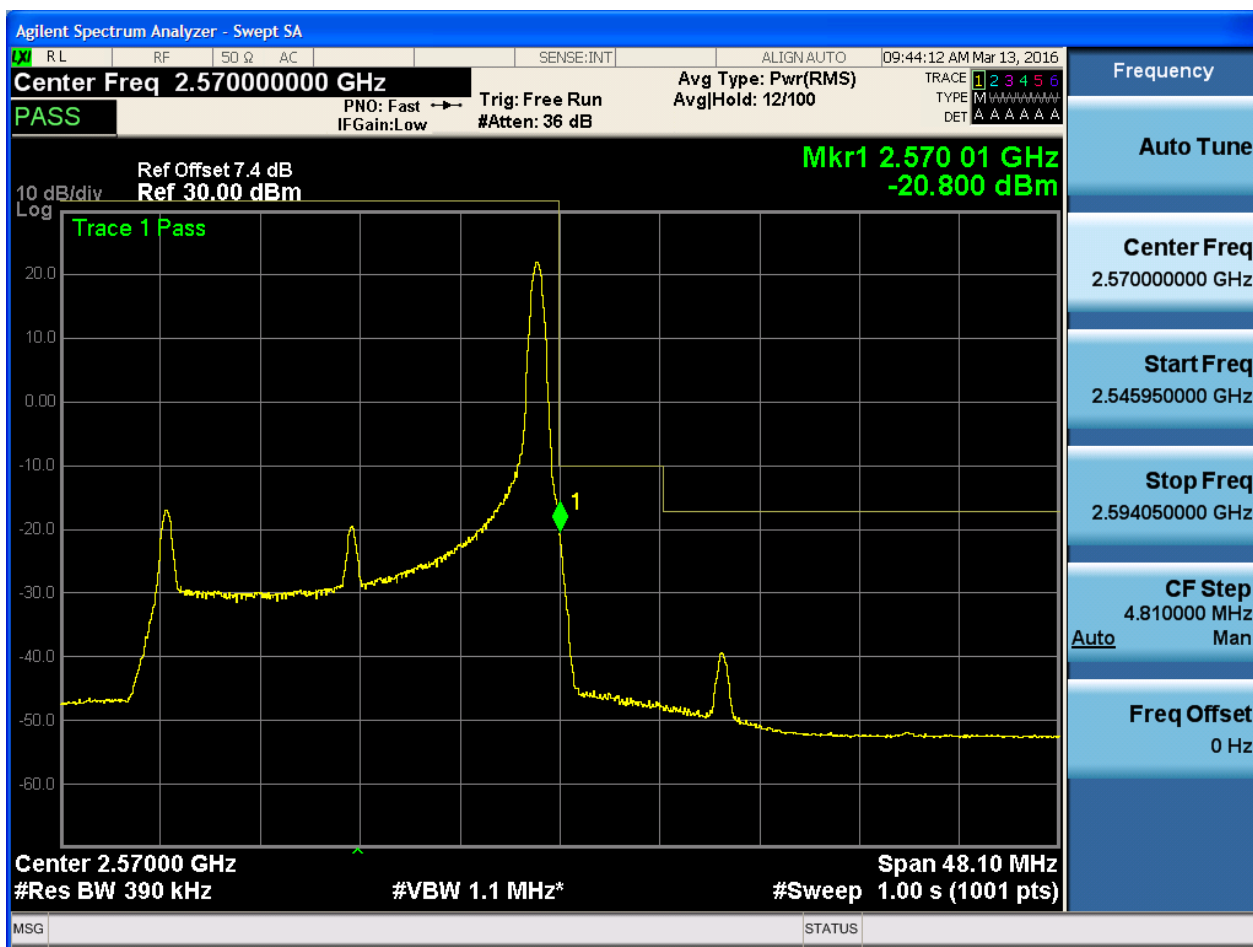
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



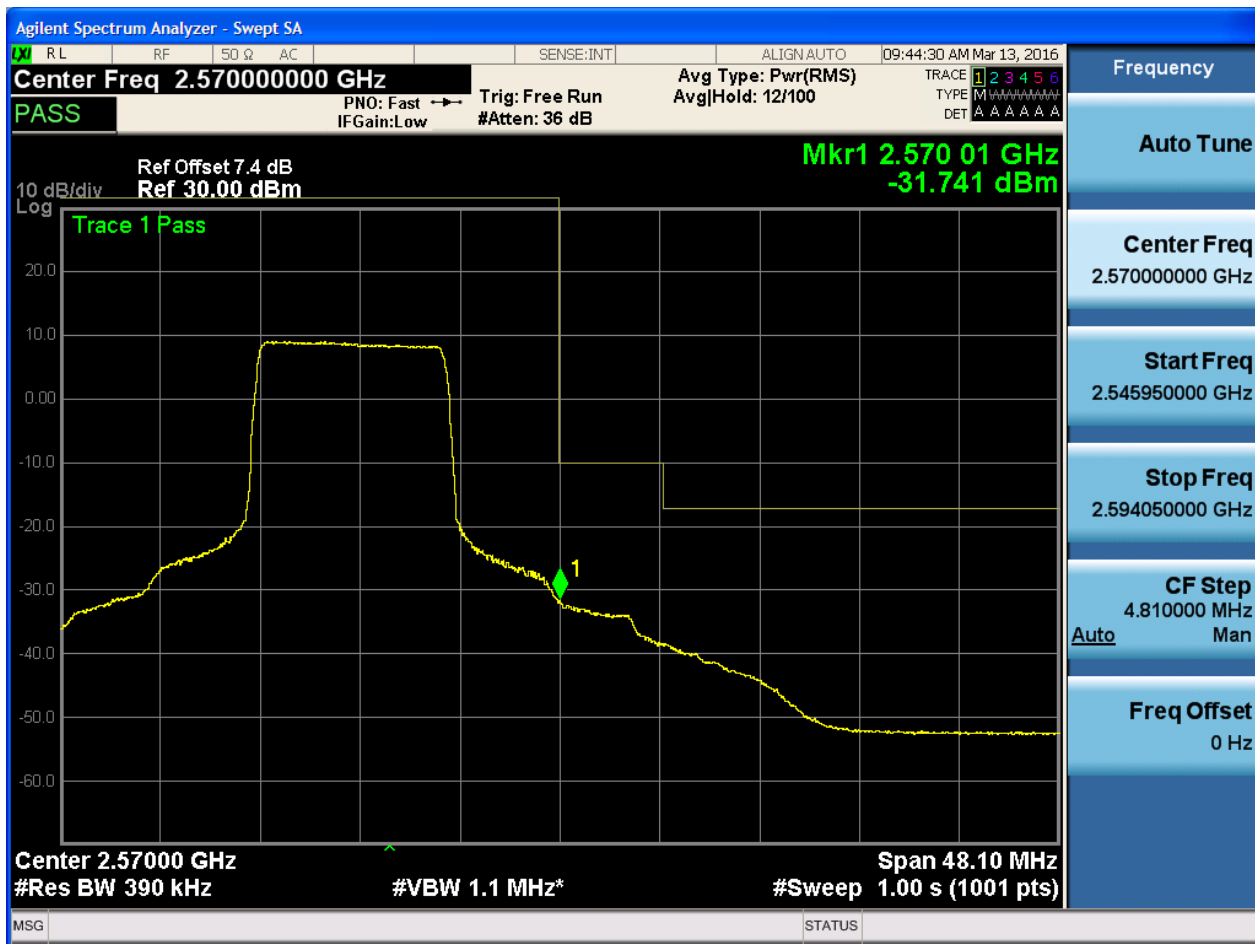


5.1.1.1.4.2.2 Test RB = RB1#99



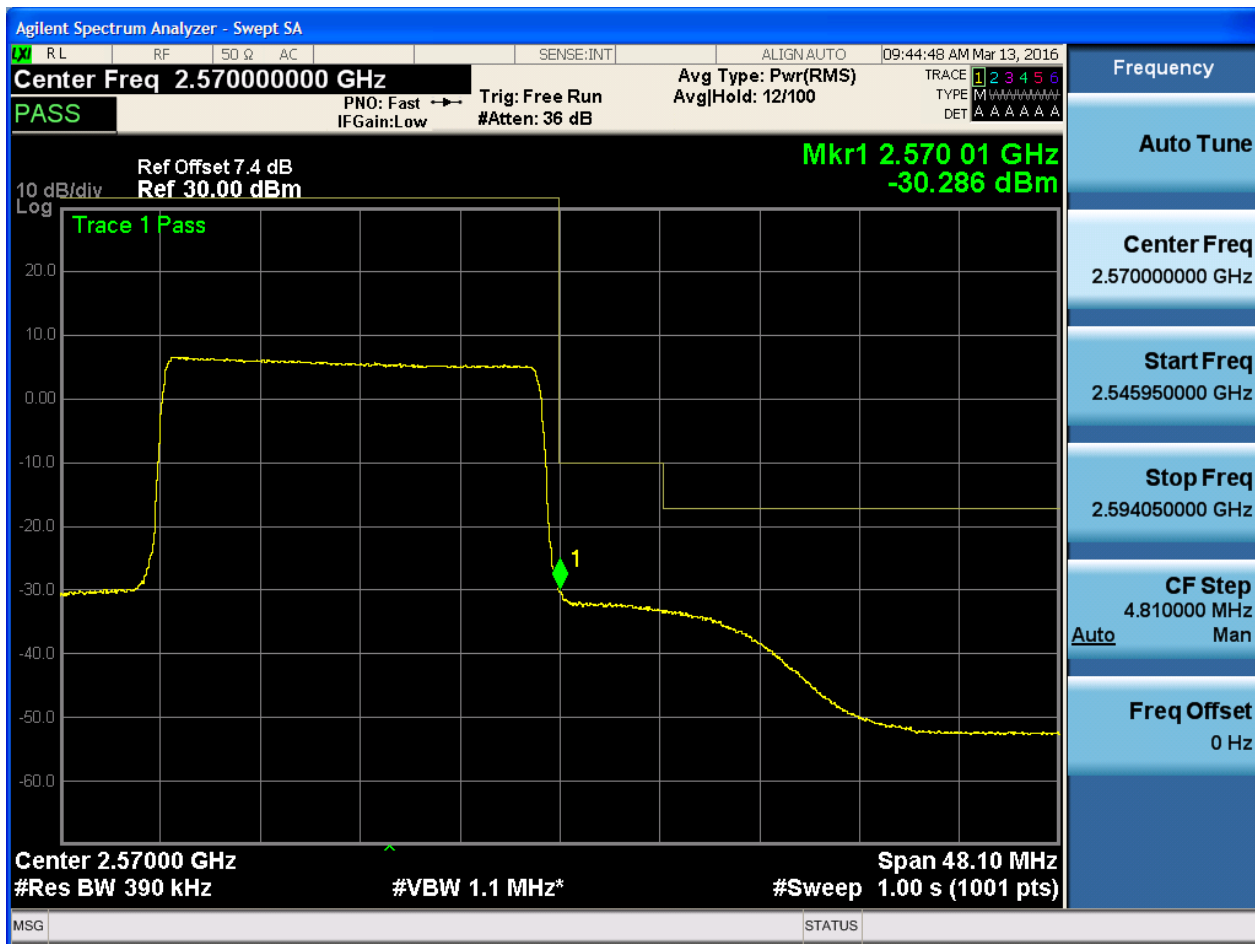


5.1.1.1.4.2.3 Test RB = RB50#25





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

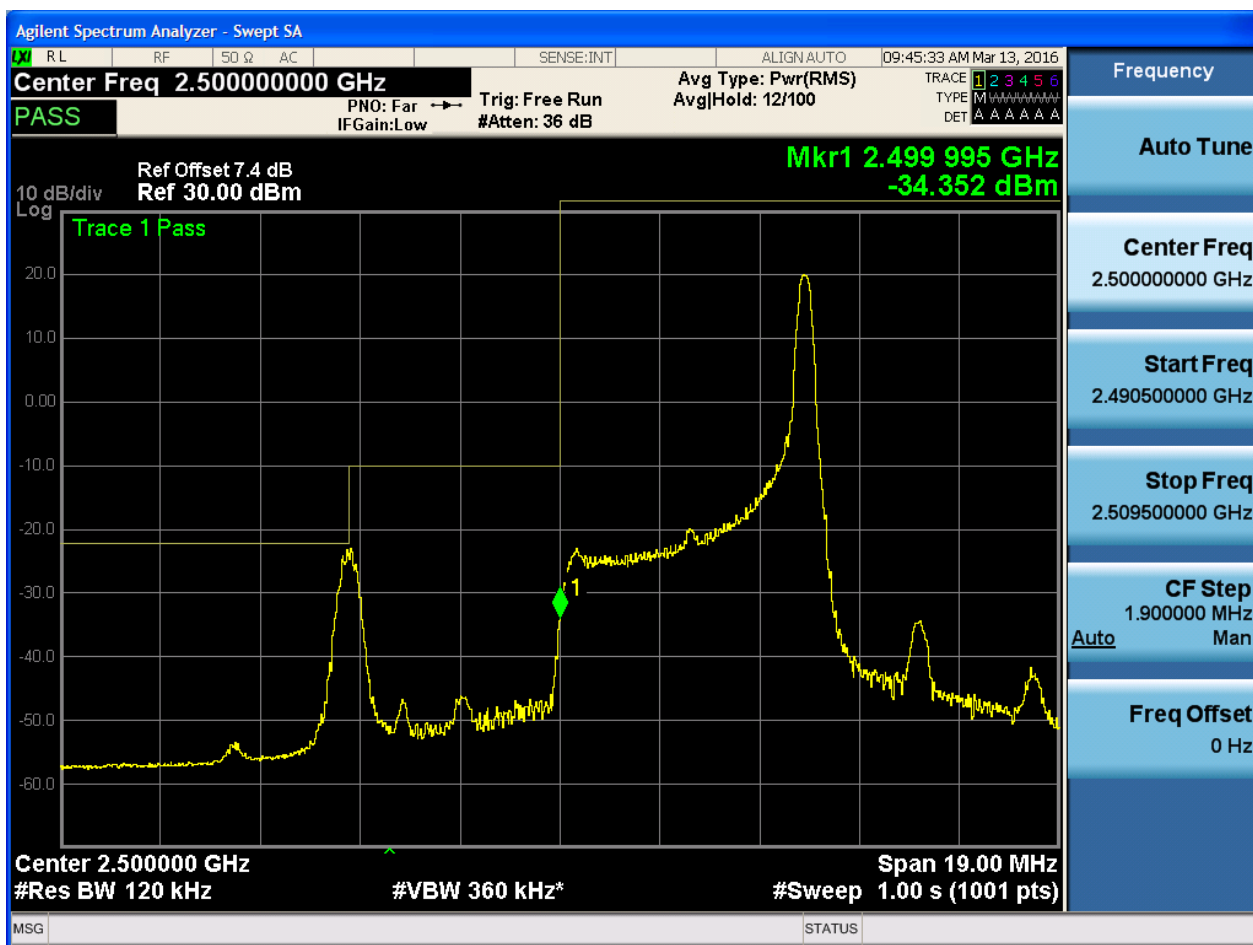
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

Ref Offset 7.4 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Trace 1 Pass

Mkr1 2.499 995 GHz
-25.776 dBm

Center 2.500000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.50000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz



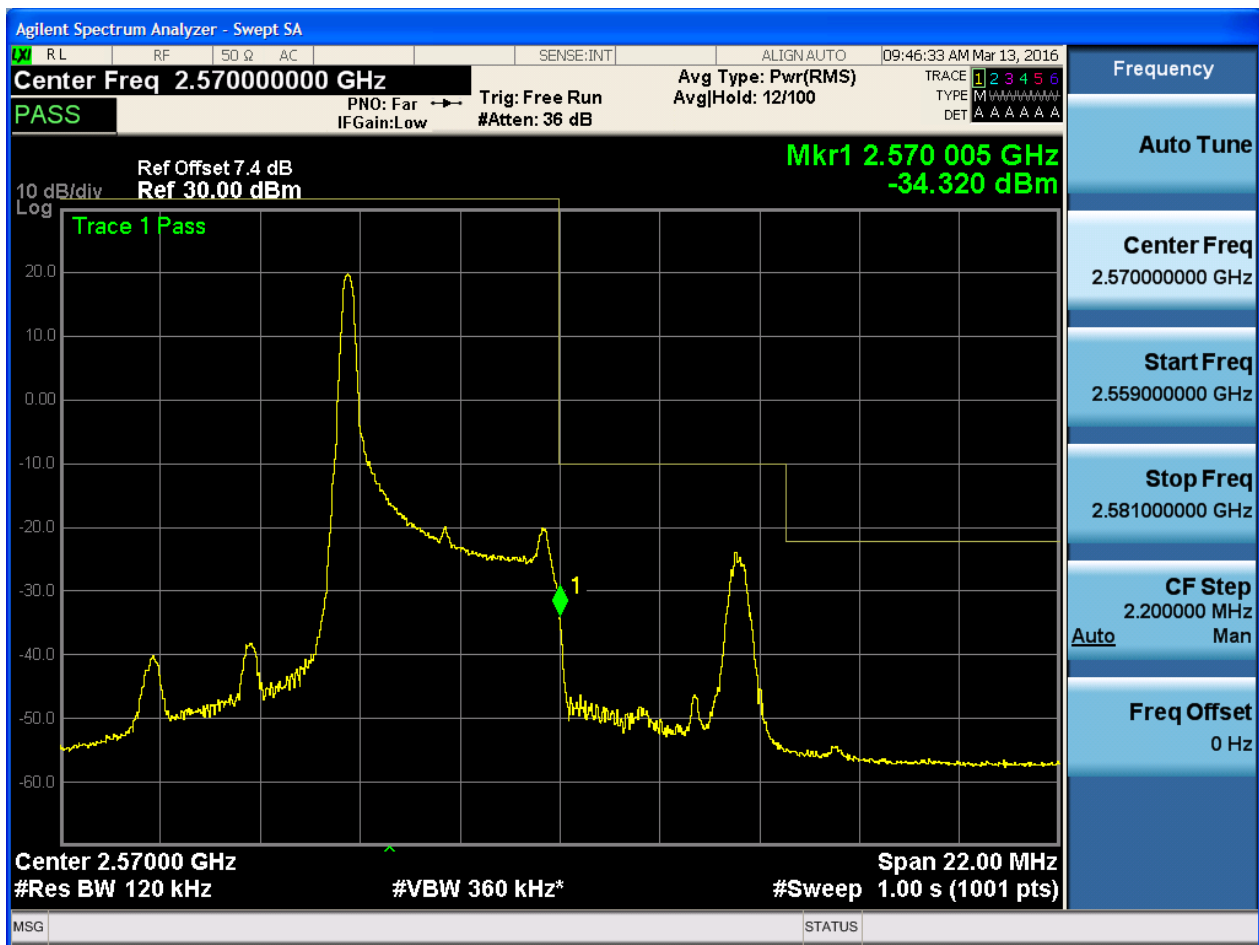
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



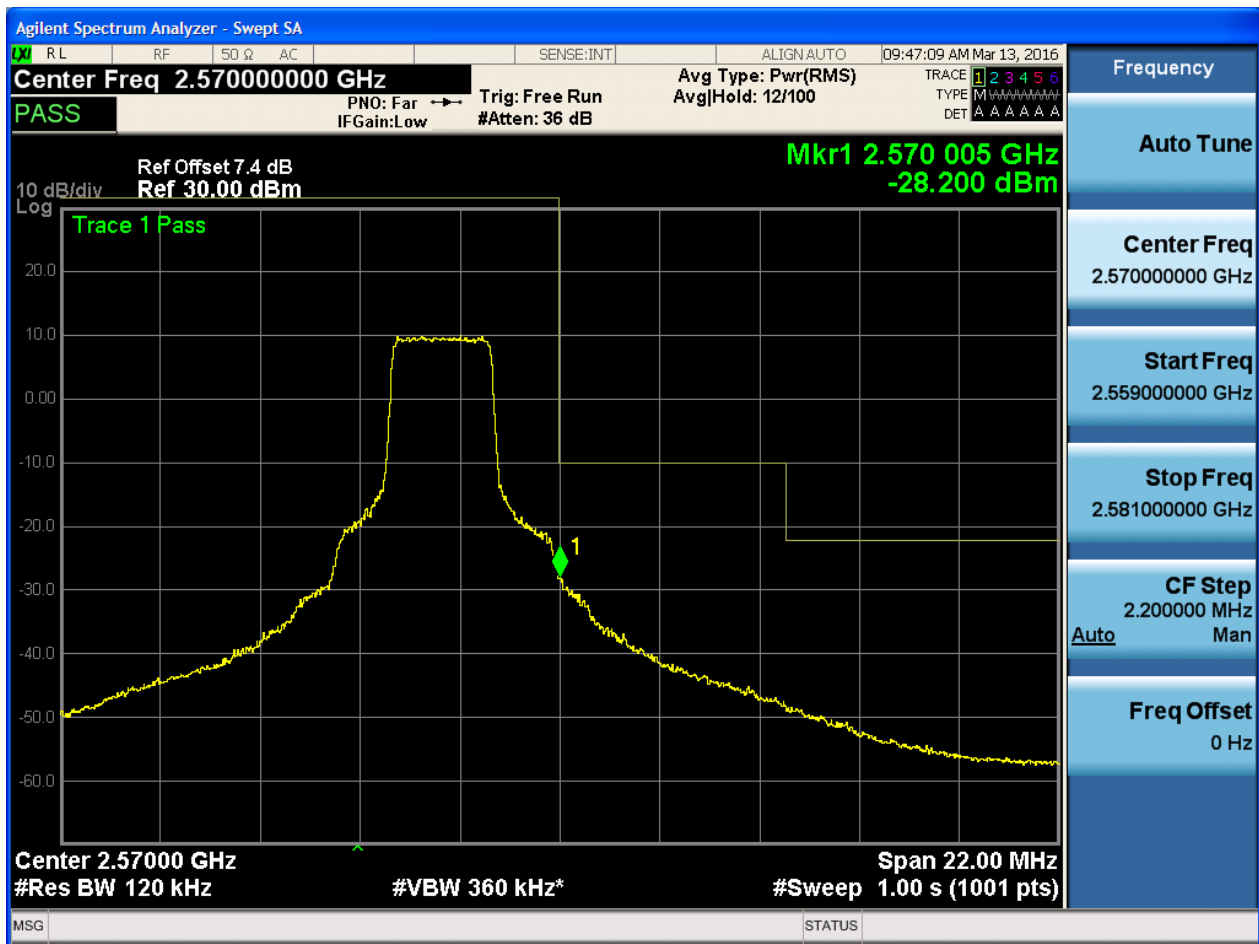


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

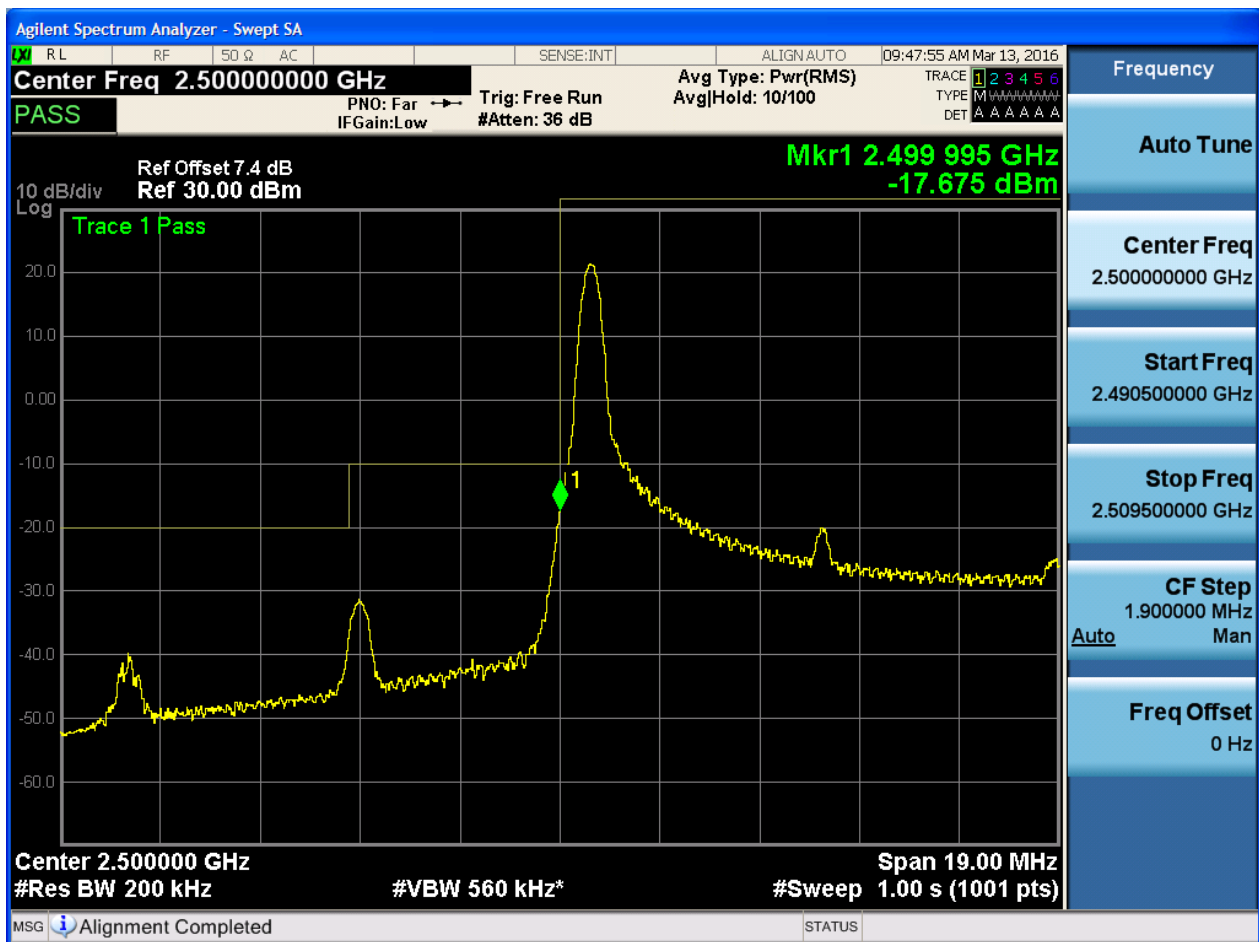




5.1.1.2.2 Test Bandwidth = 10

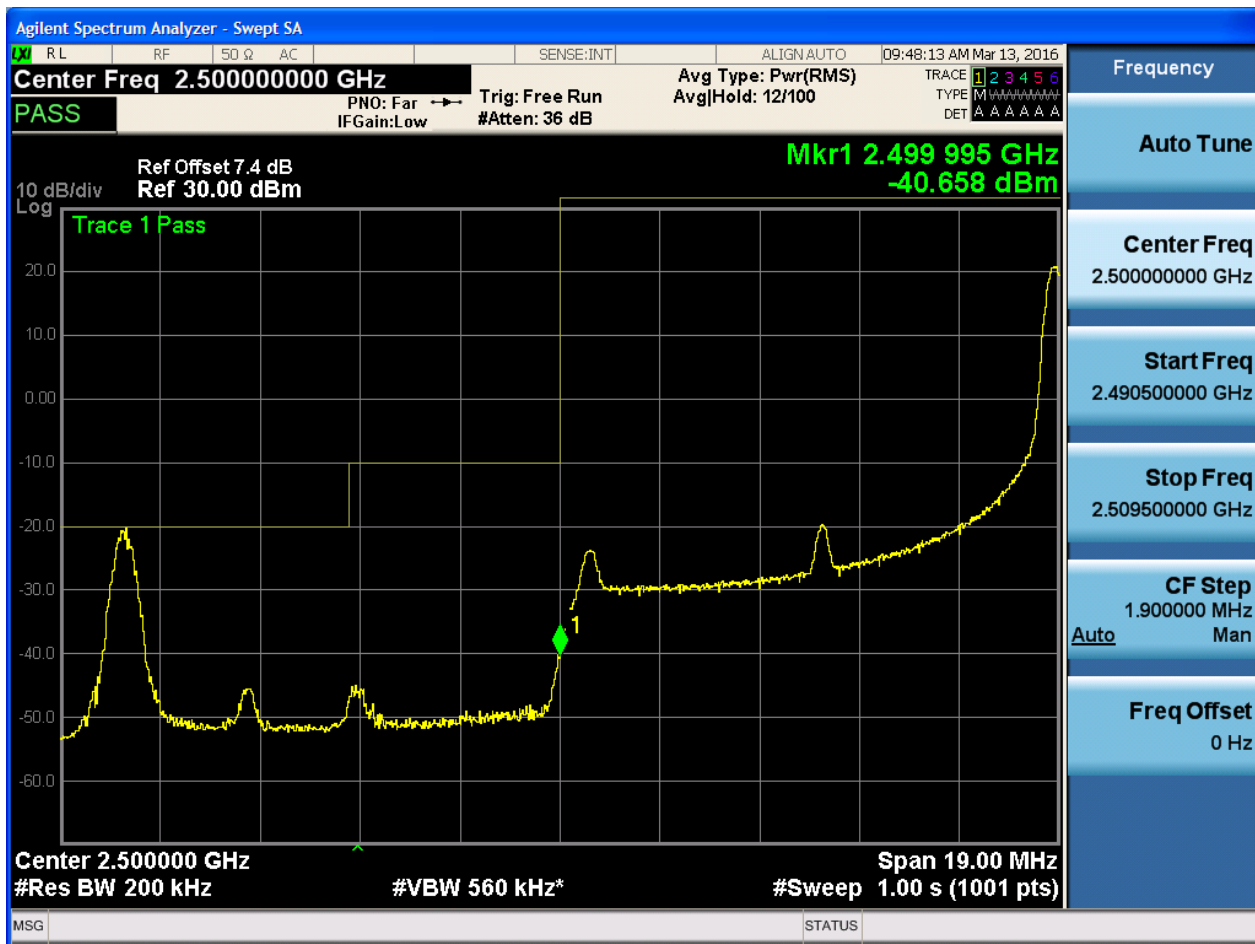
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49



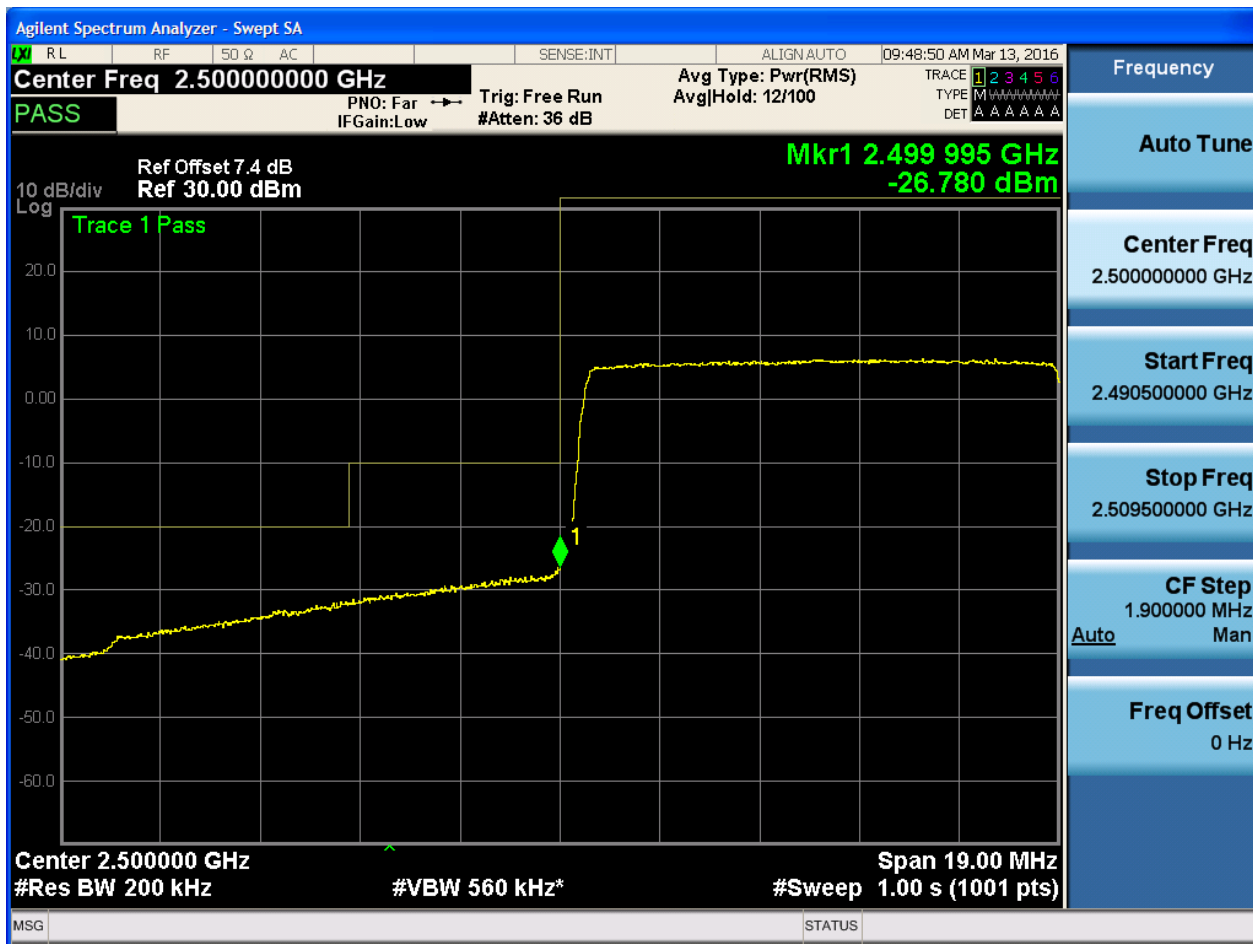


5.1.1.2.2.1.3 Test RB = RB25#13





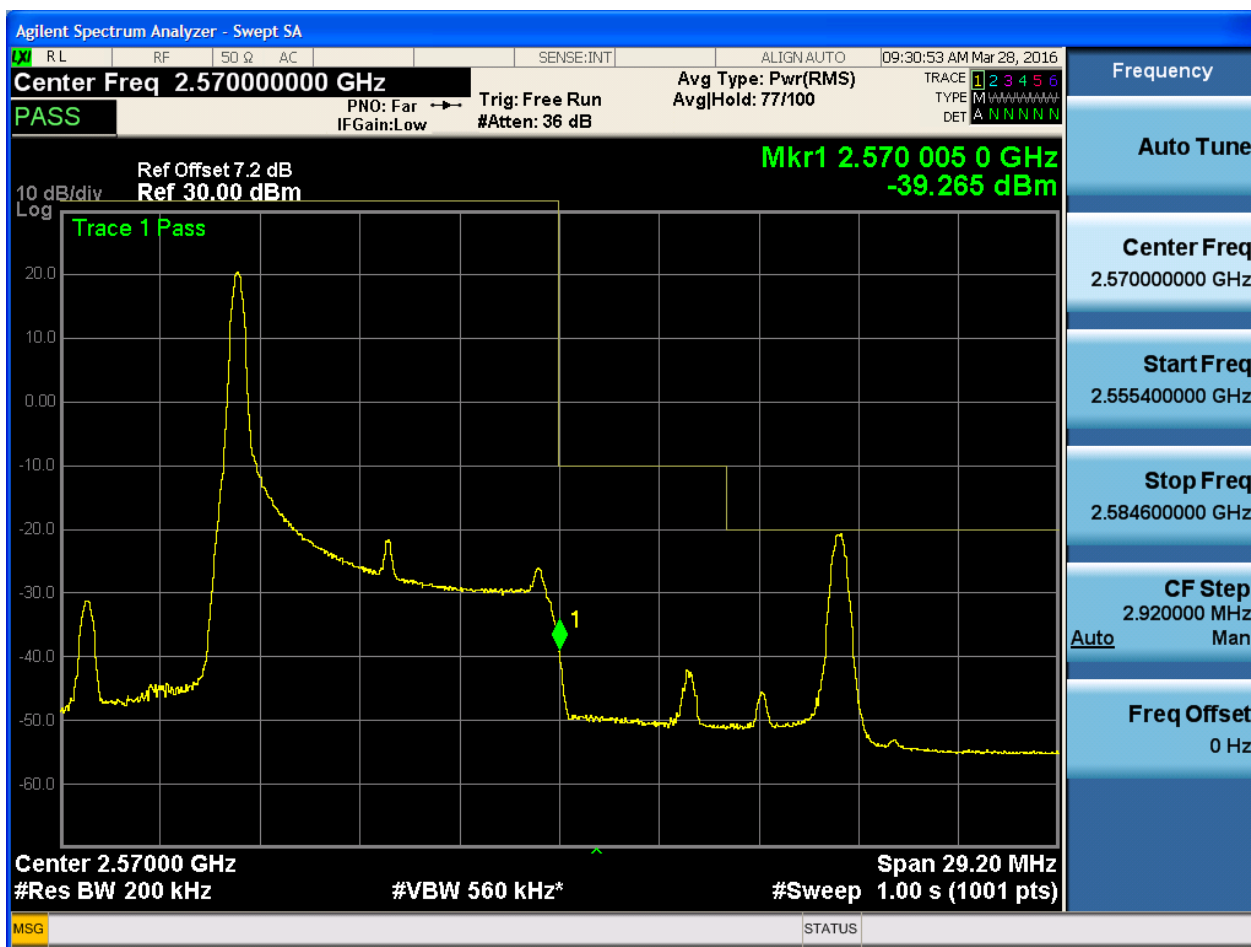
5.1.1.2.2.1.4 Test RB = RB50#0





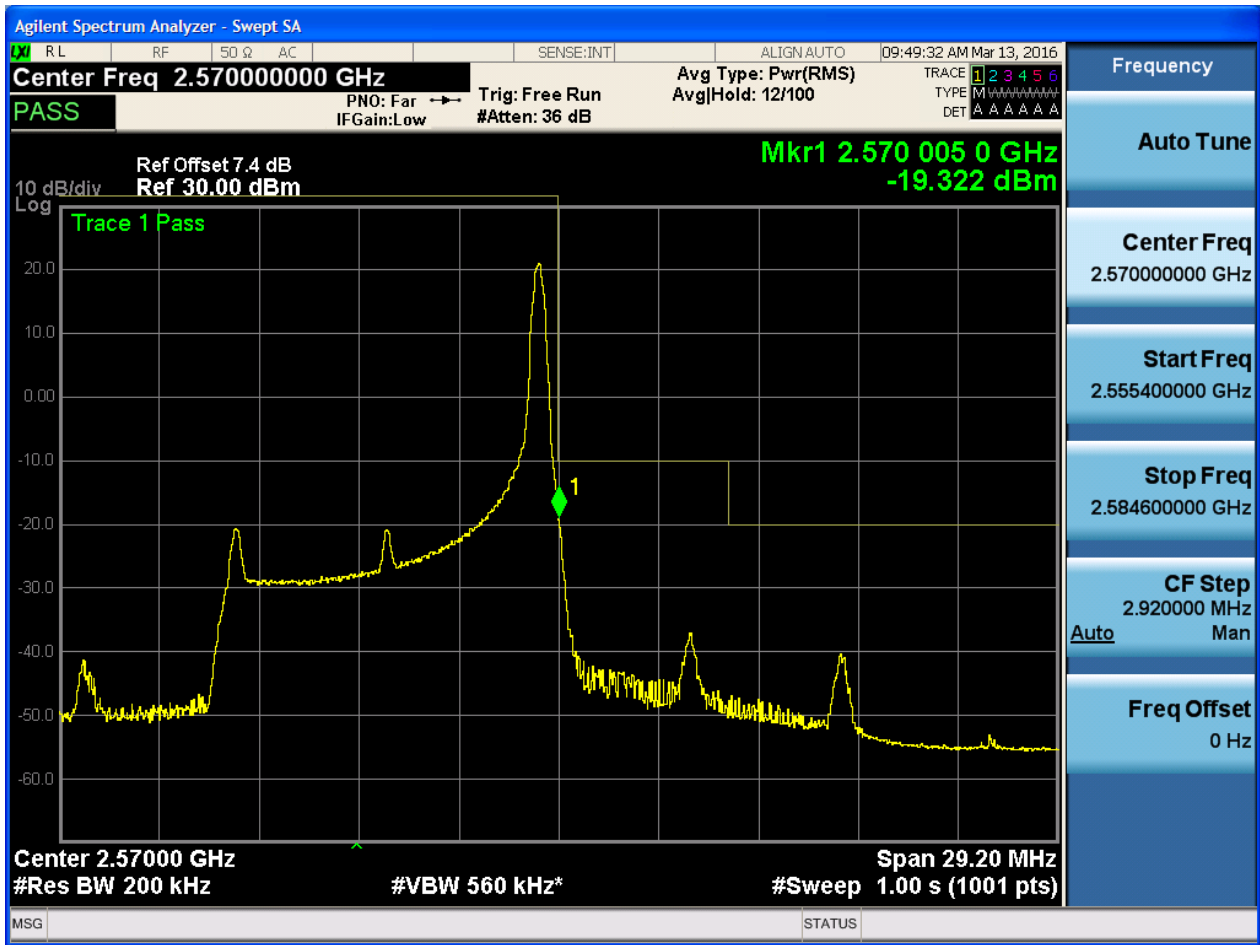
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



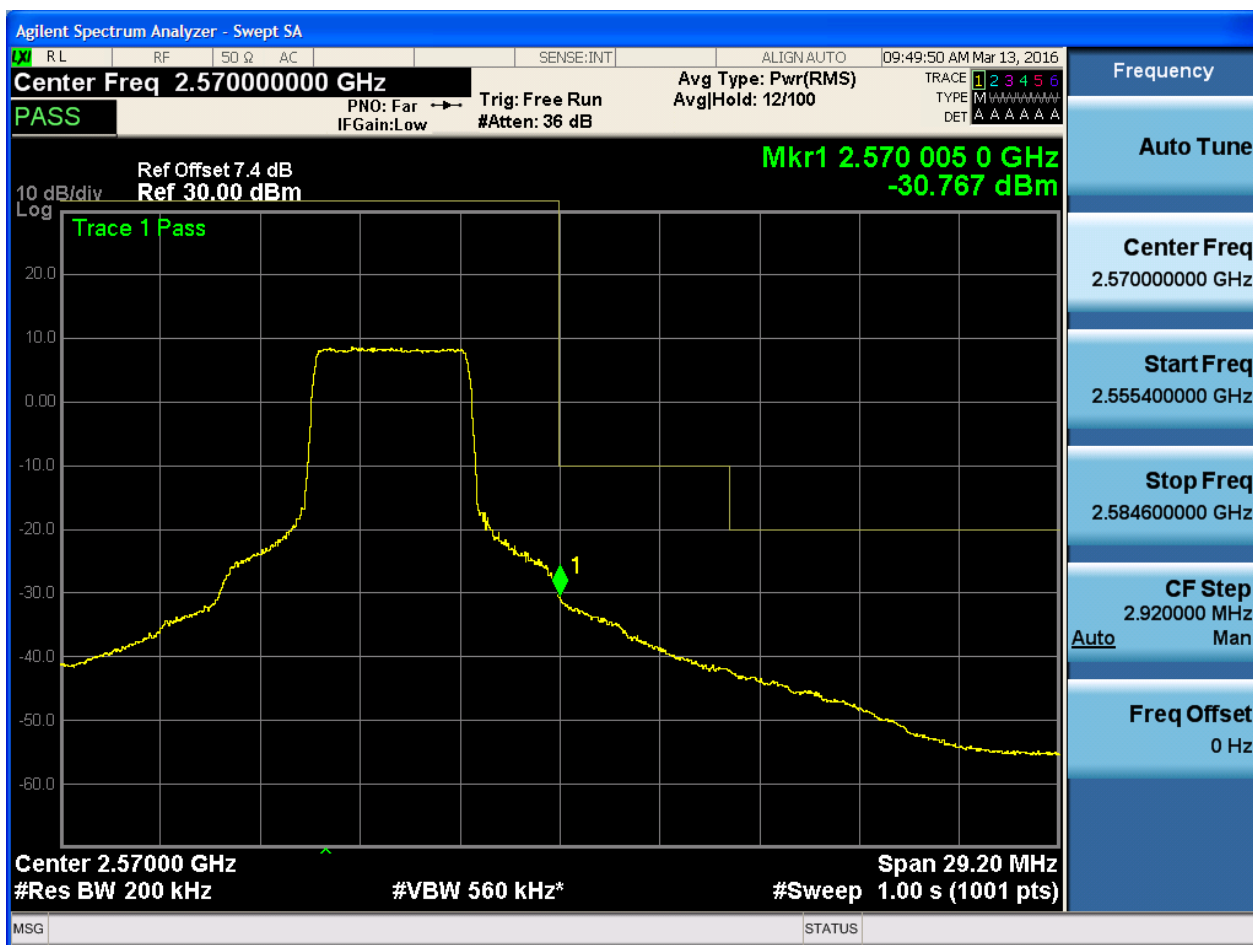


5.1.1.2.2.2.2 Test RB = RB1#49





5.1.1.2.2.2.3 Test RB = RB25#13





5.1.1.2.2.2.4 Test RB = RB50#0

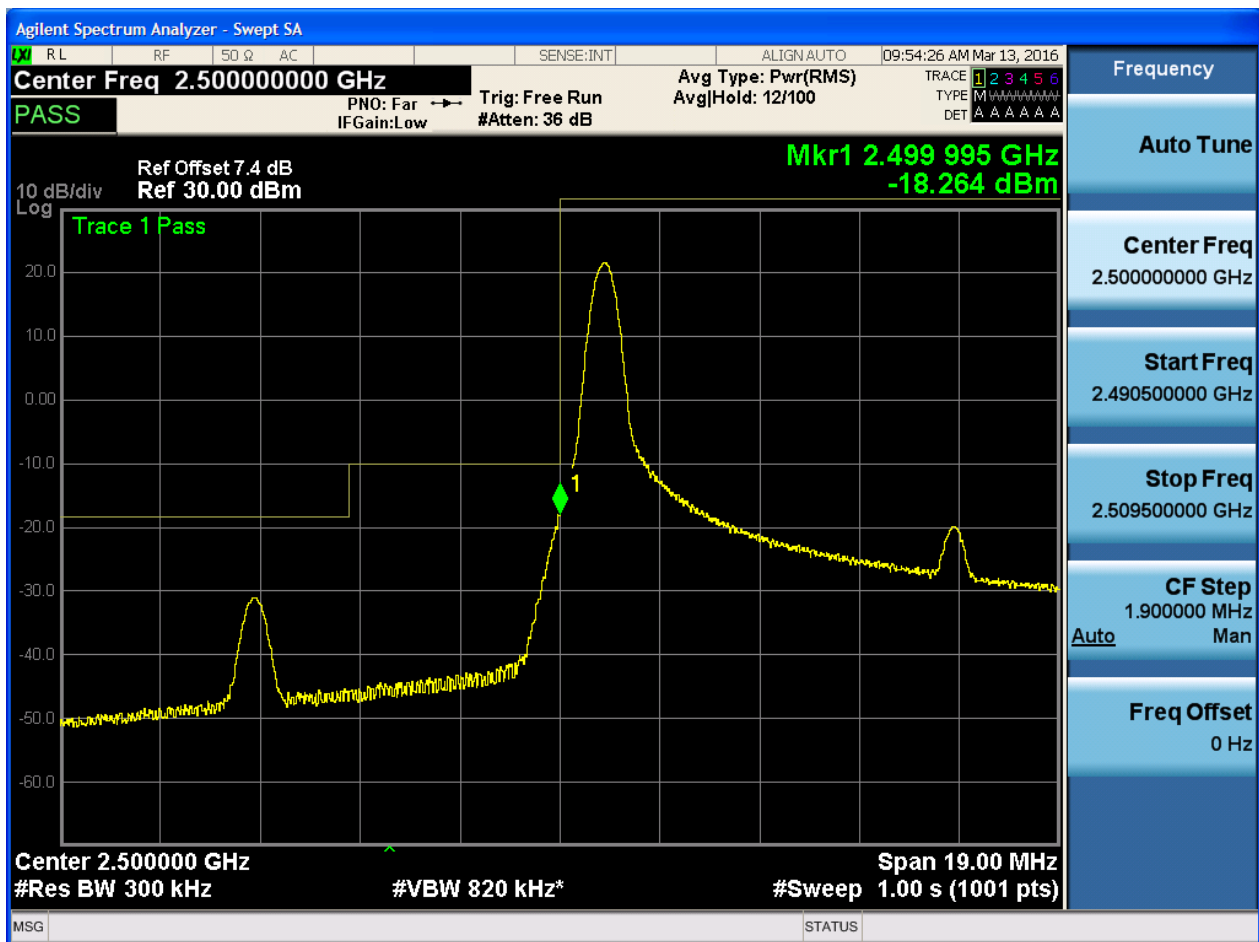




5.1.1.2.3 Test Bandwidth = 15

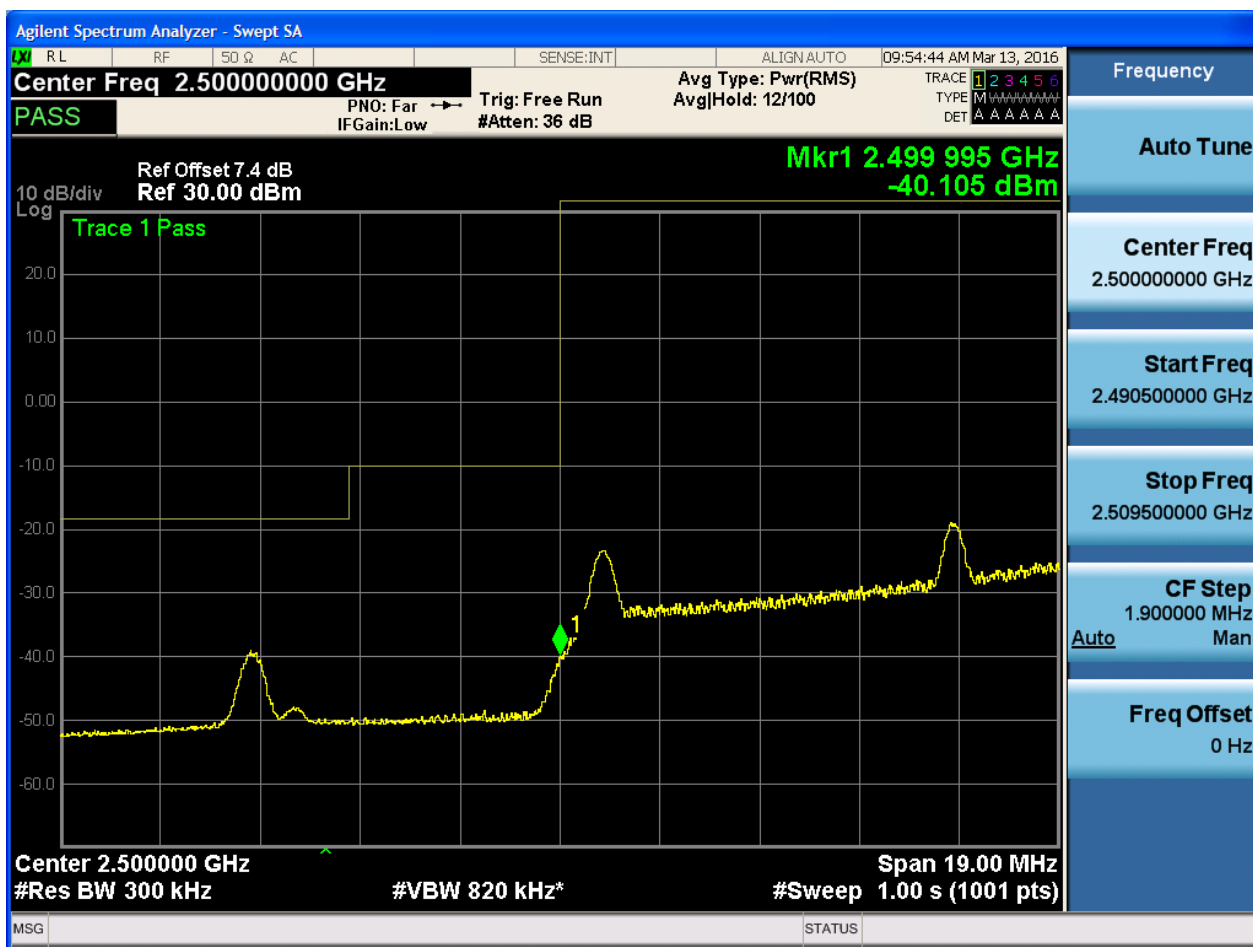
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



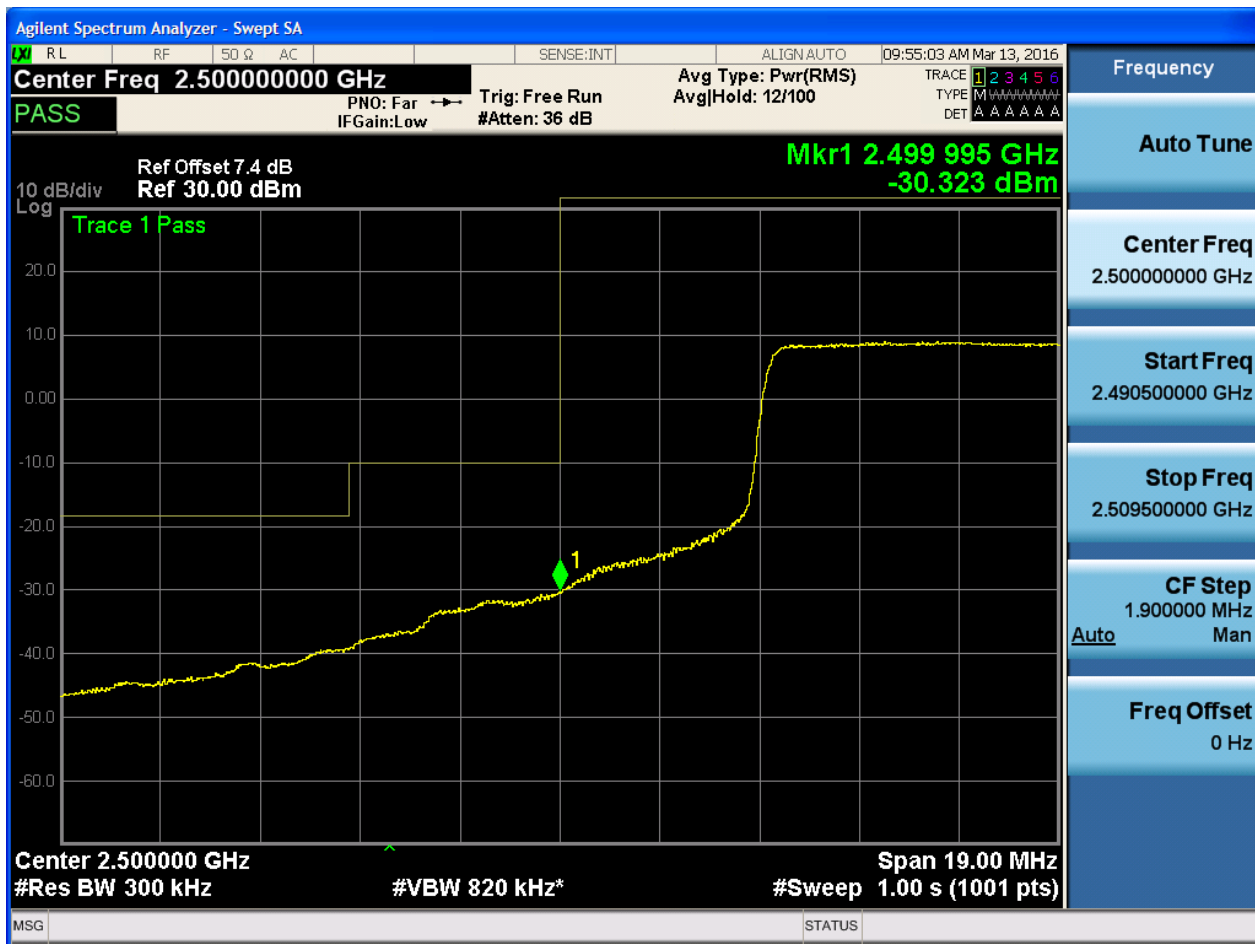


5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18





5.1.1.2.3.1.4 Test RB = RB75#0





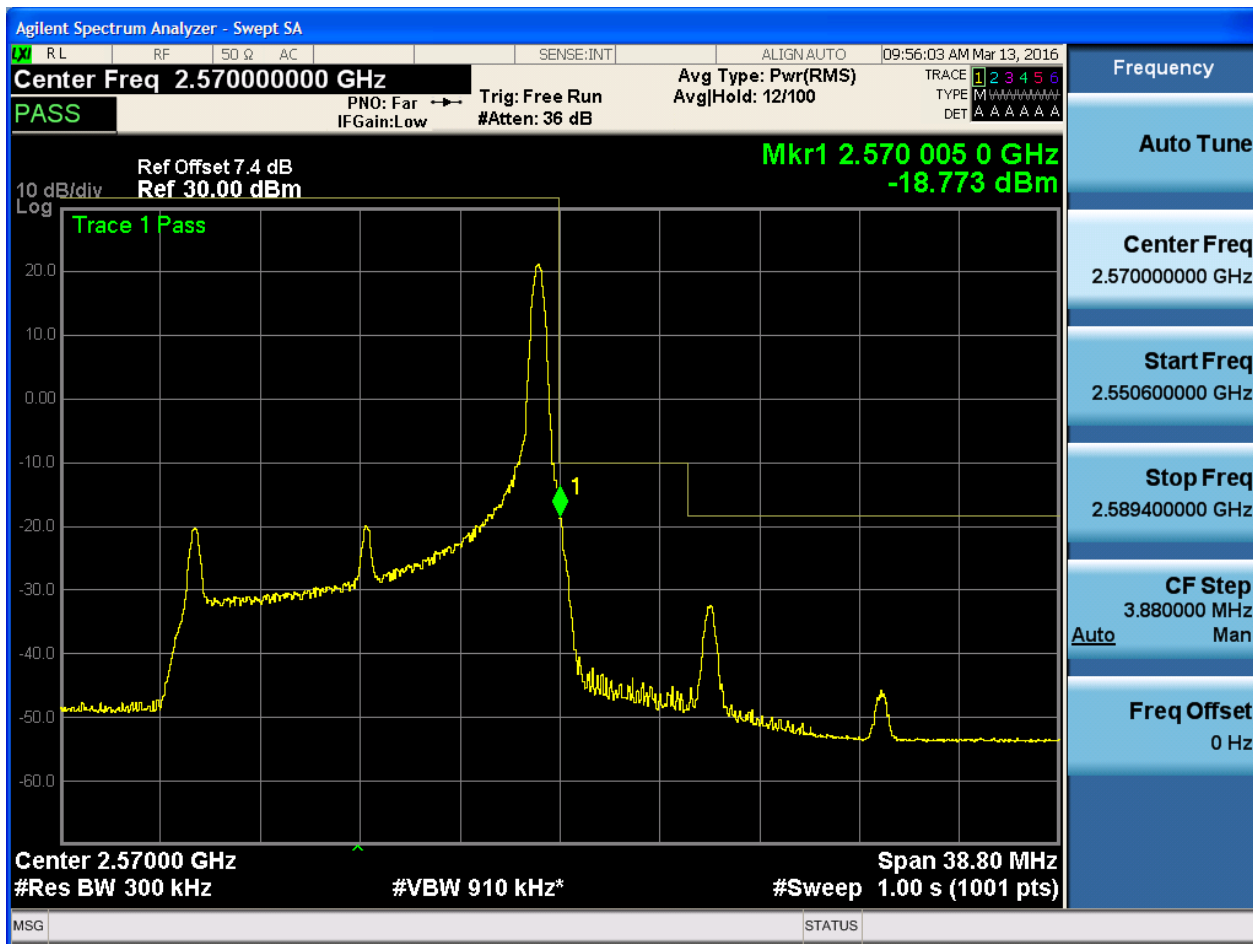
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



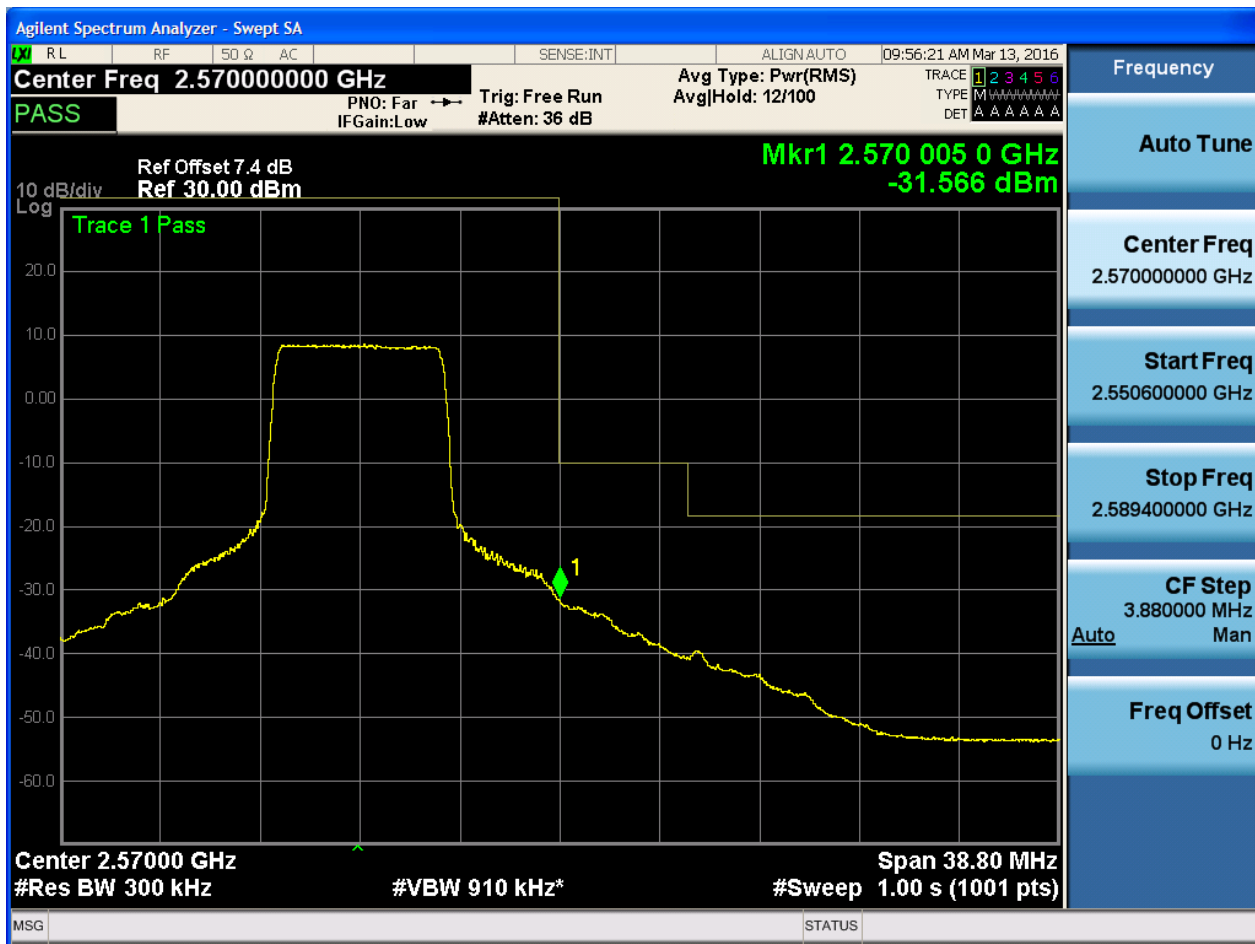


5.1.1.2.3.2.2 Test RB = RB1#74



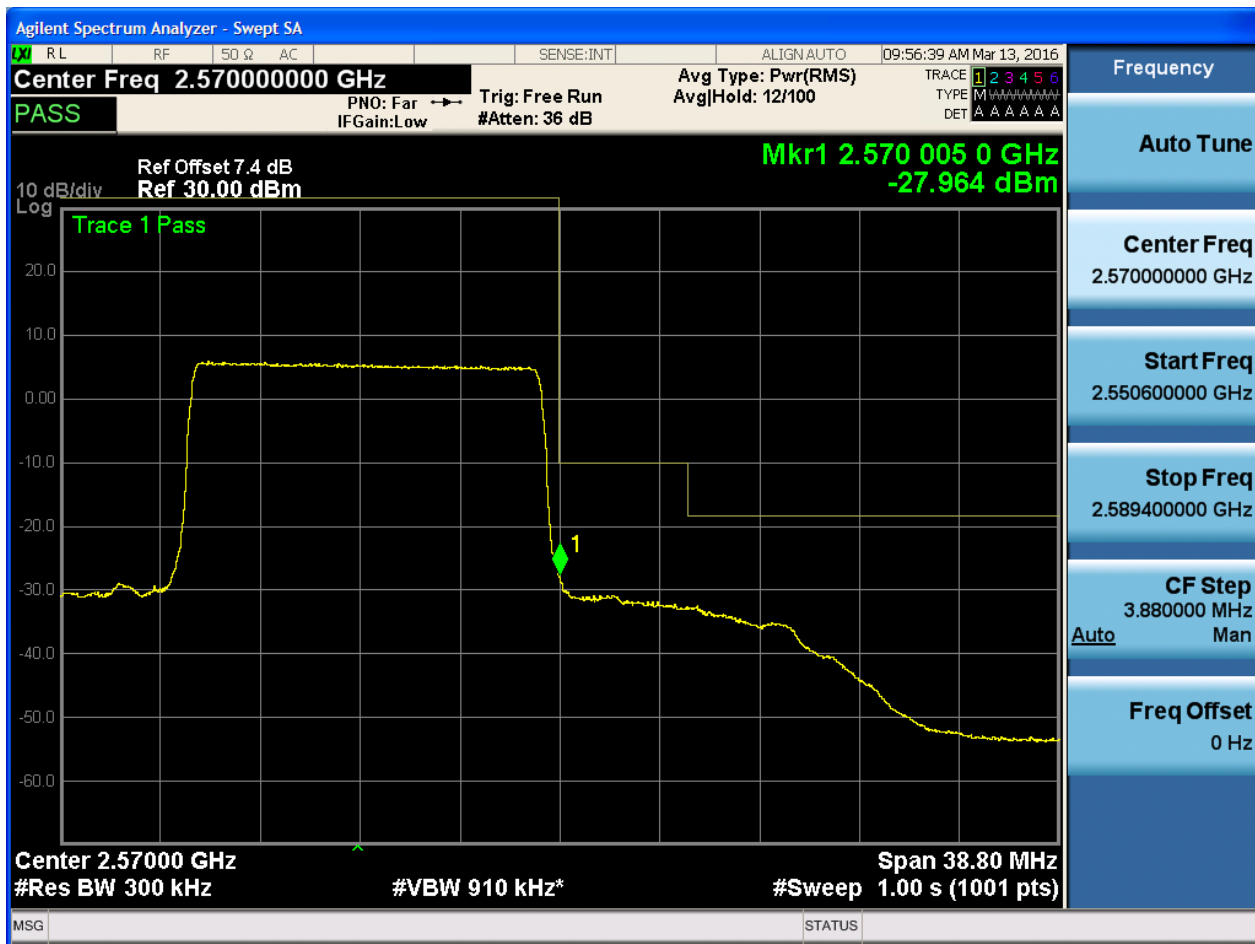


5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

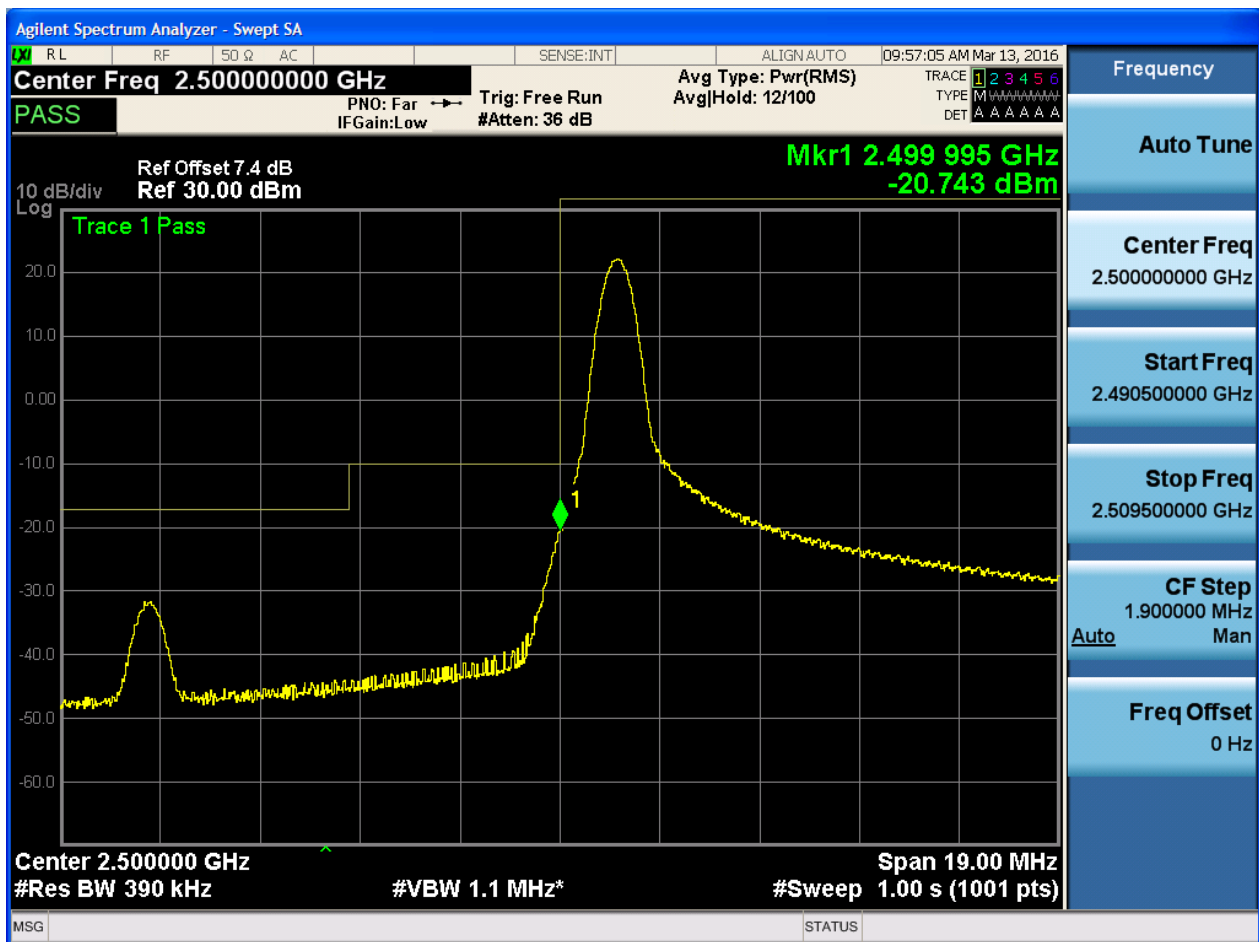




5.1.1.2.4 Test Bandwidth = 20

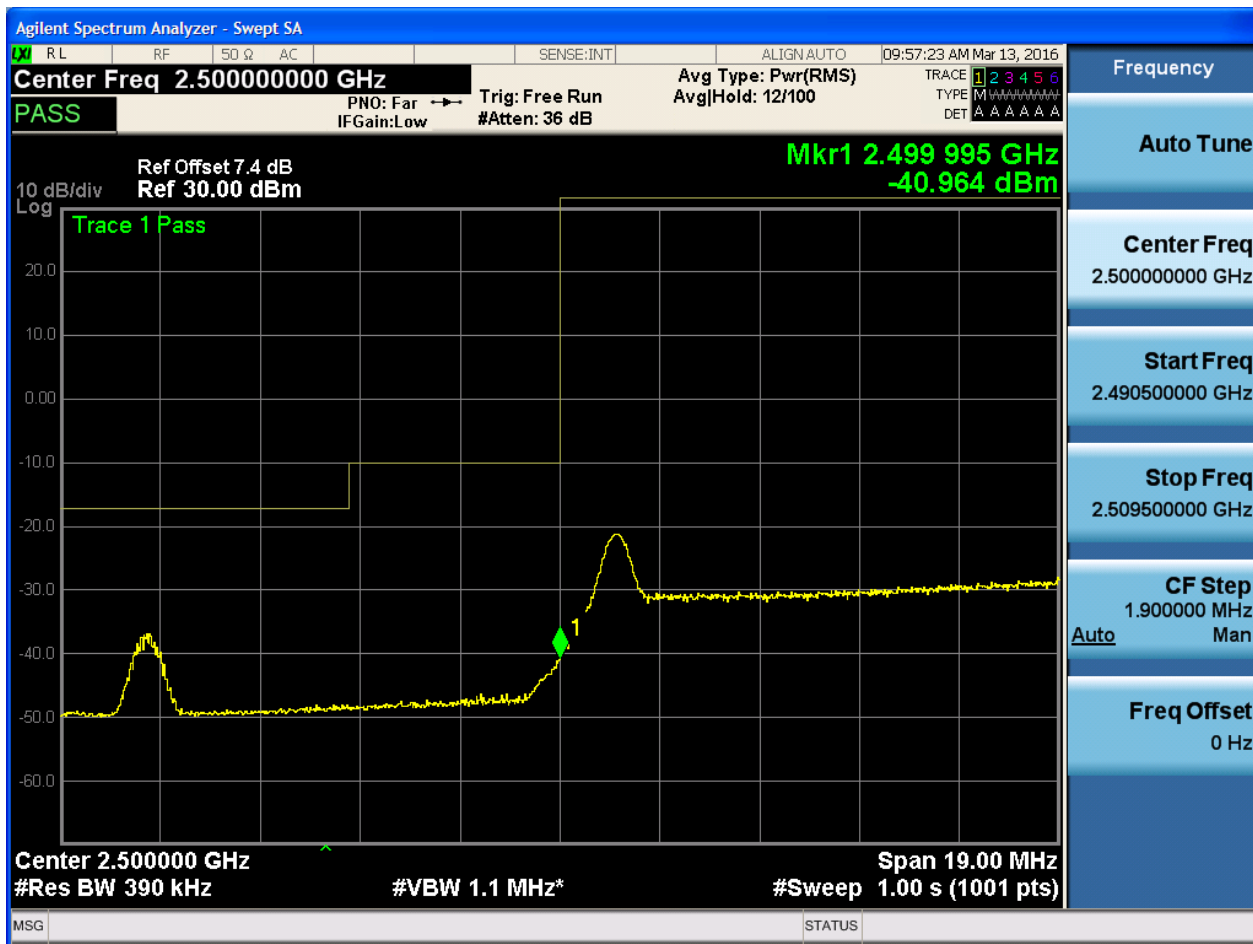
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99



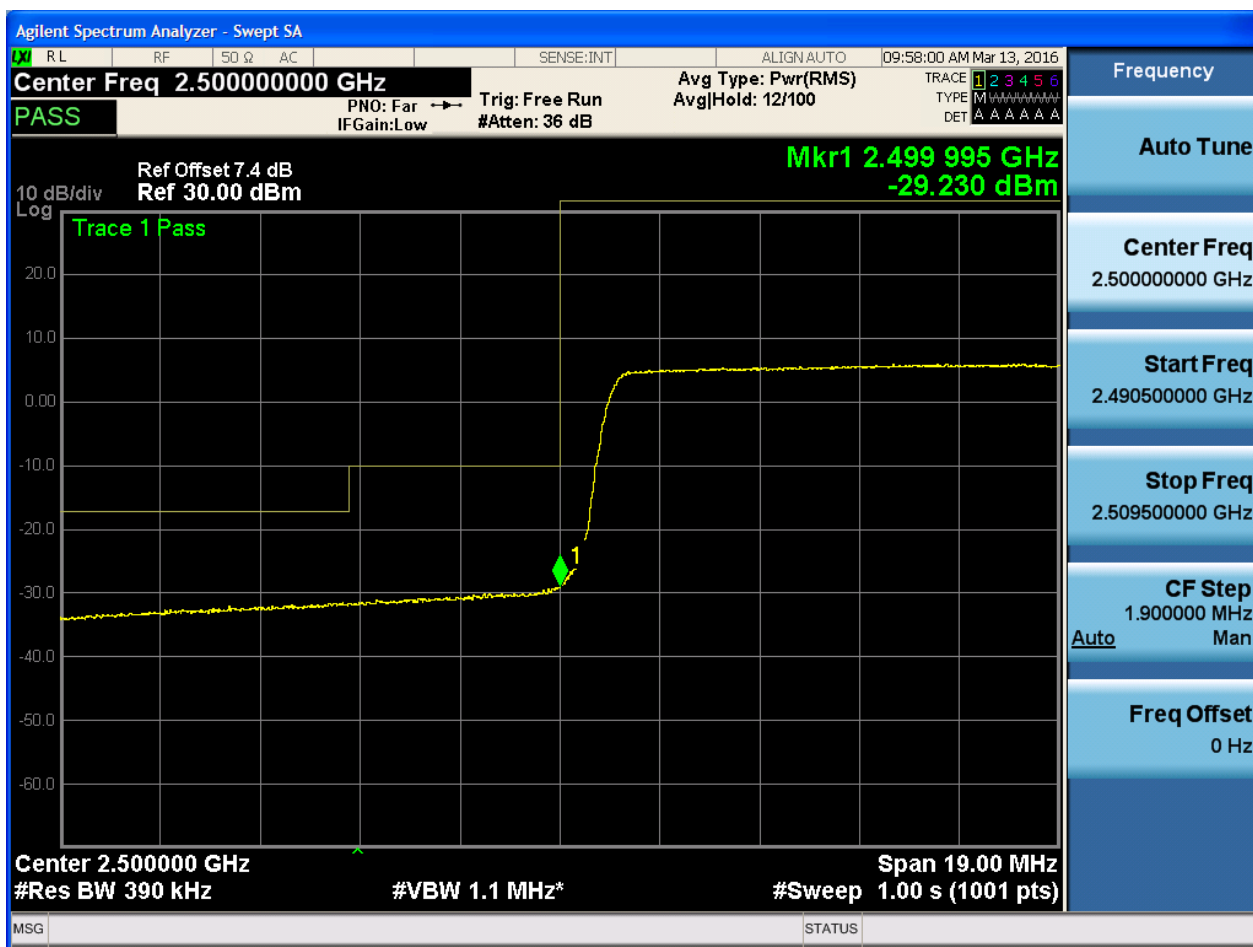


5.1.1.2.4.1.3 Test RB = RB50#25



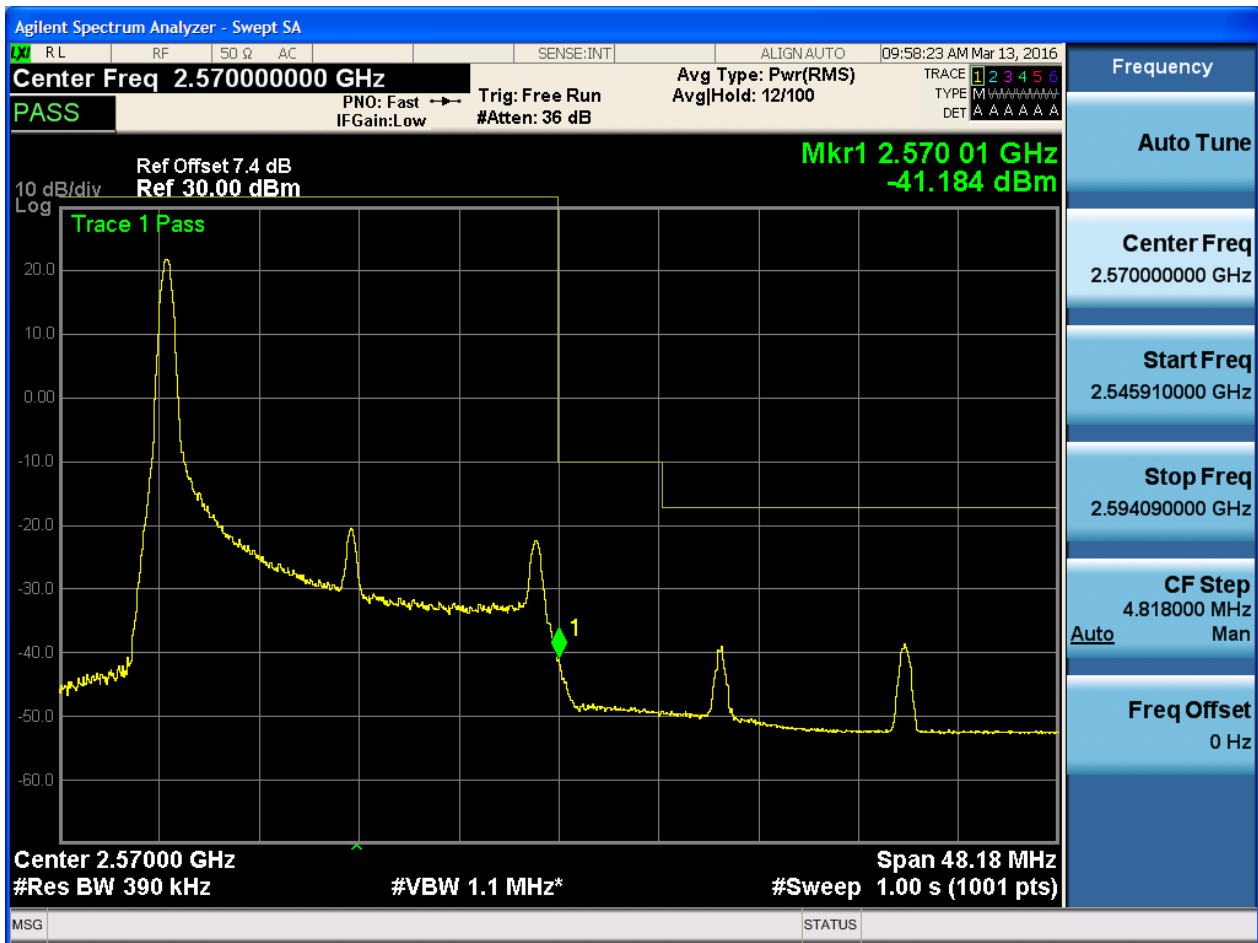


5.1.1.2.4.1.4 Test RB = RB100#0



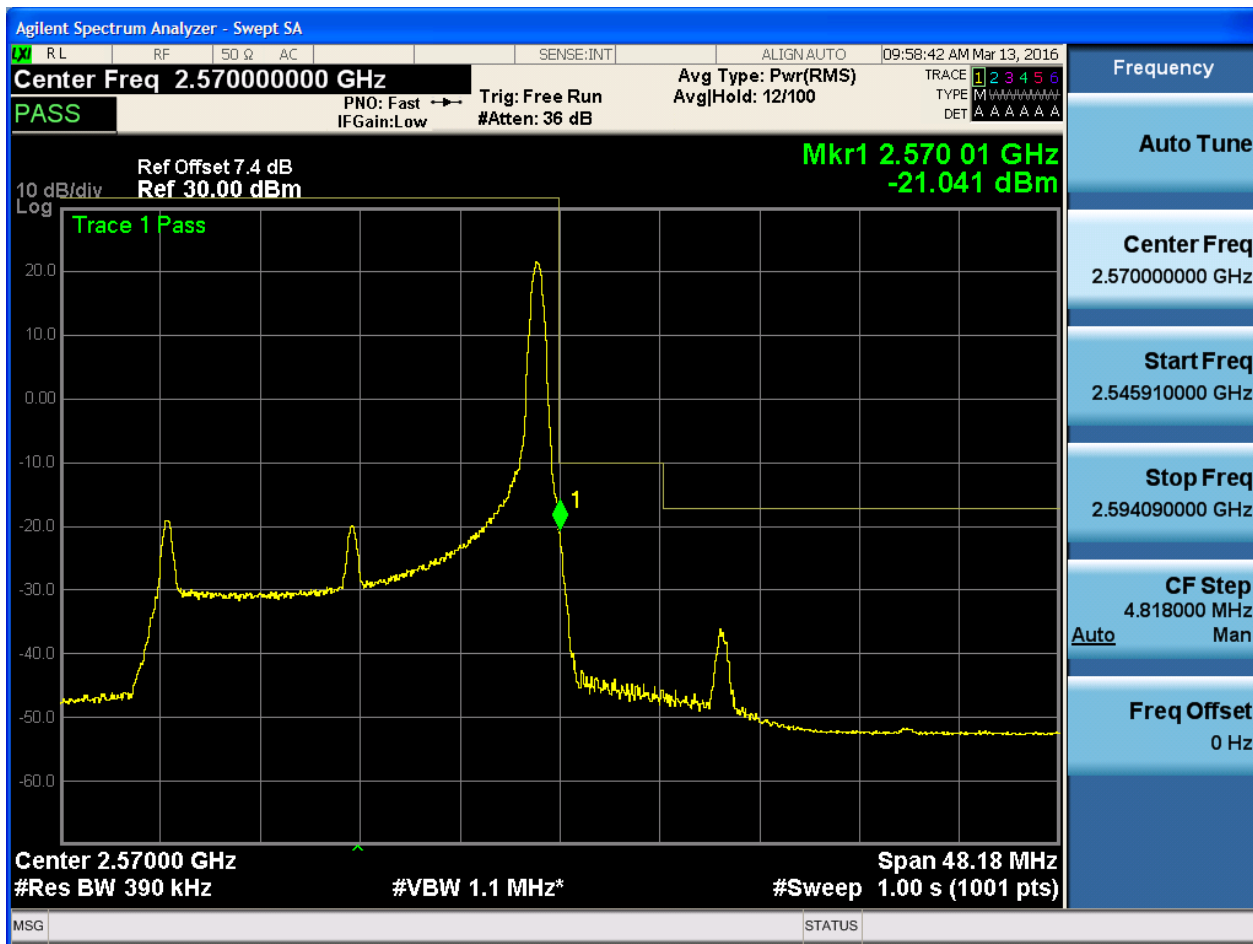


5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#99



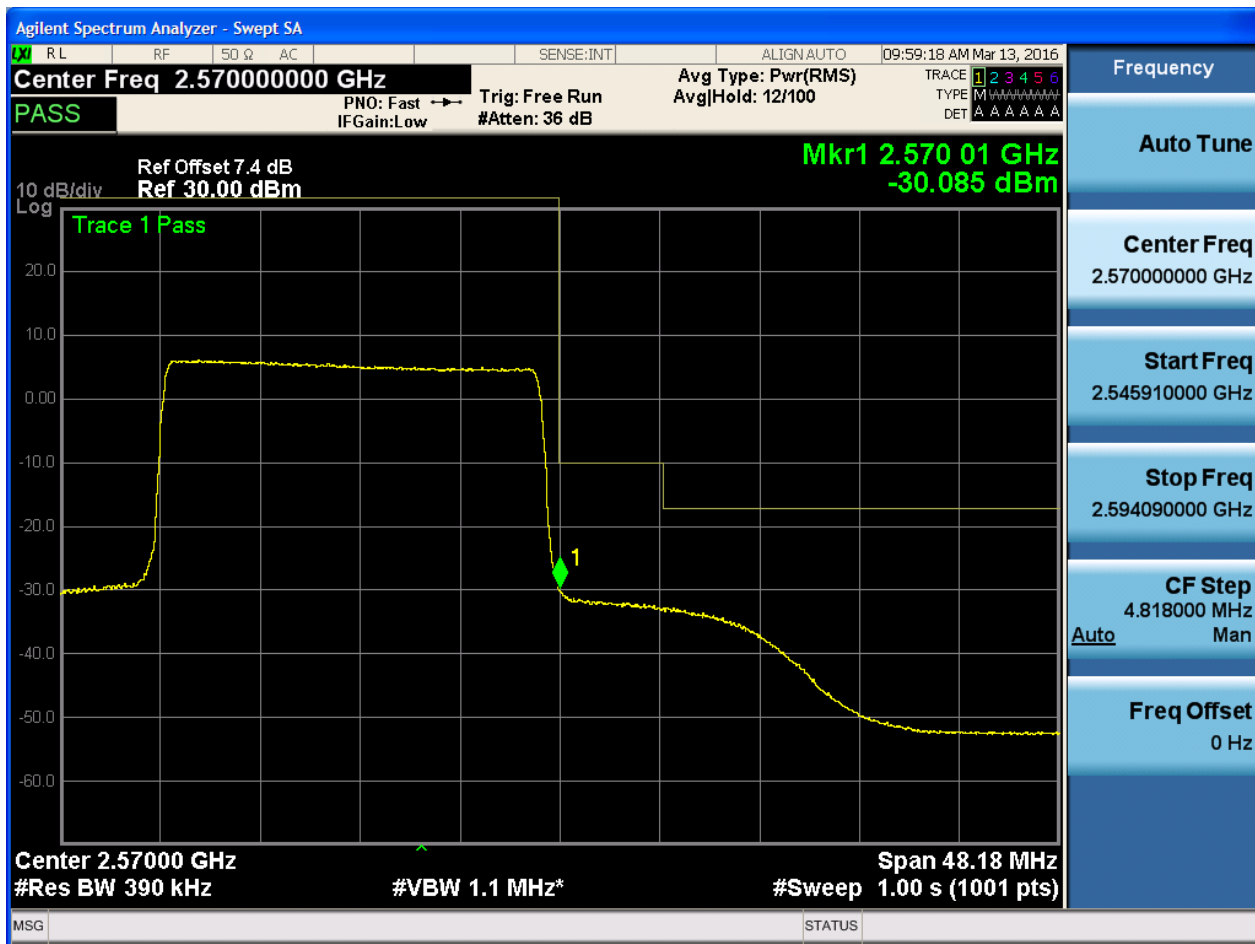


5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#0



6Appendix_F: Spurious Emission at Antenna Terminal

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

Part I - Test Plots

6.1 For LTE

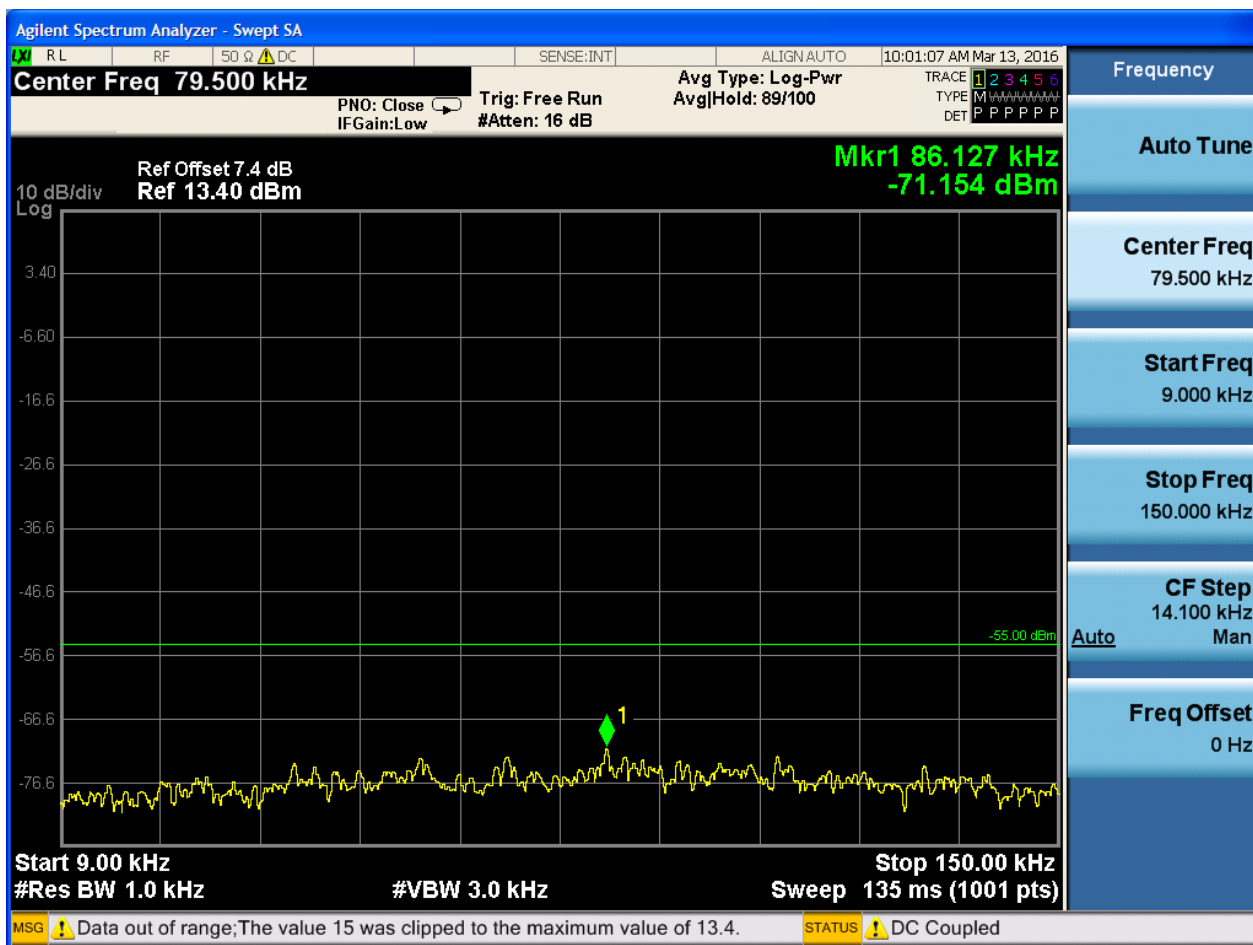
6.1.1 Test Band = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



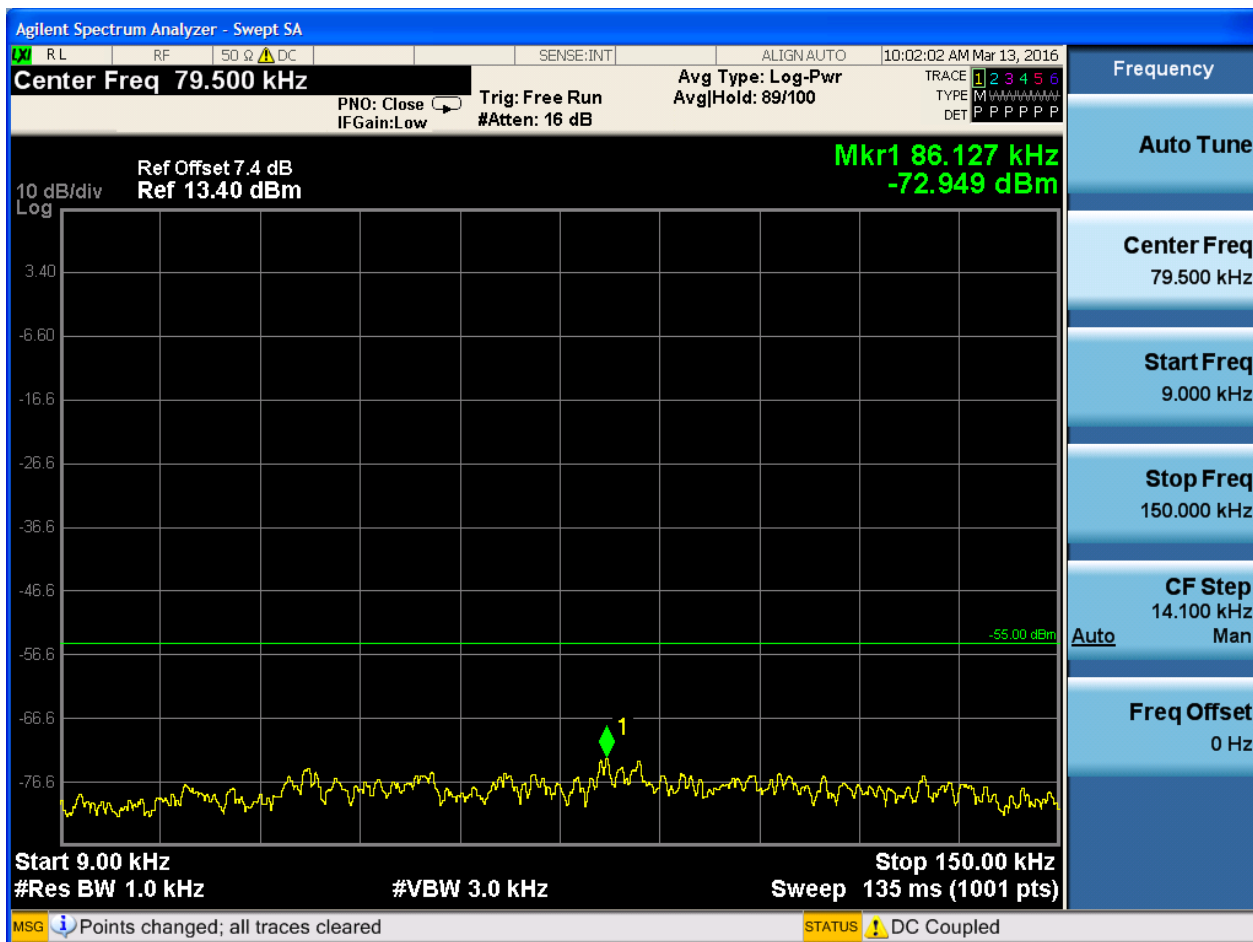


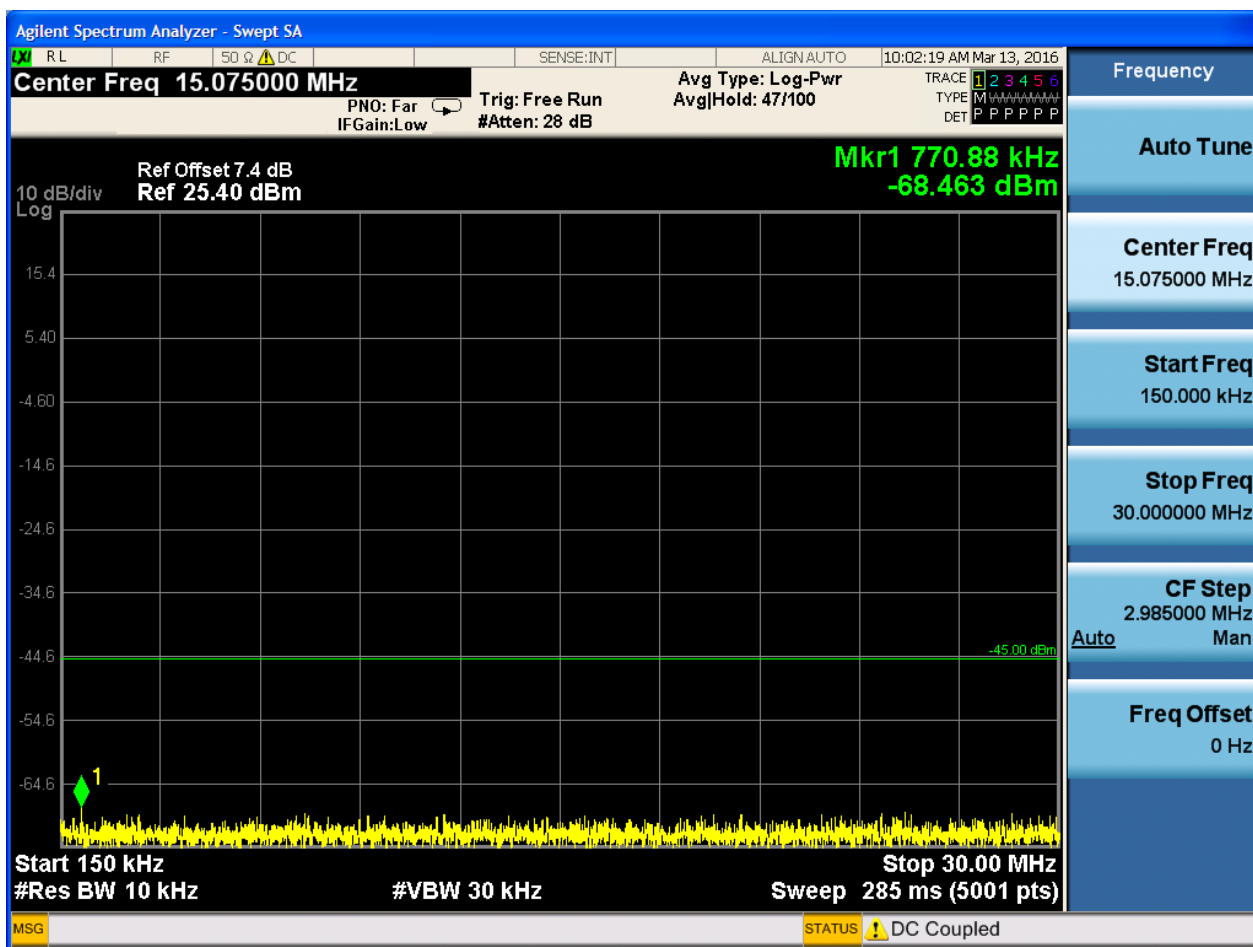


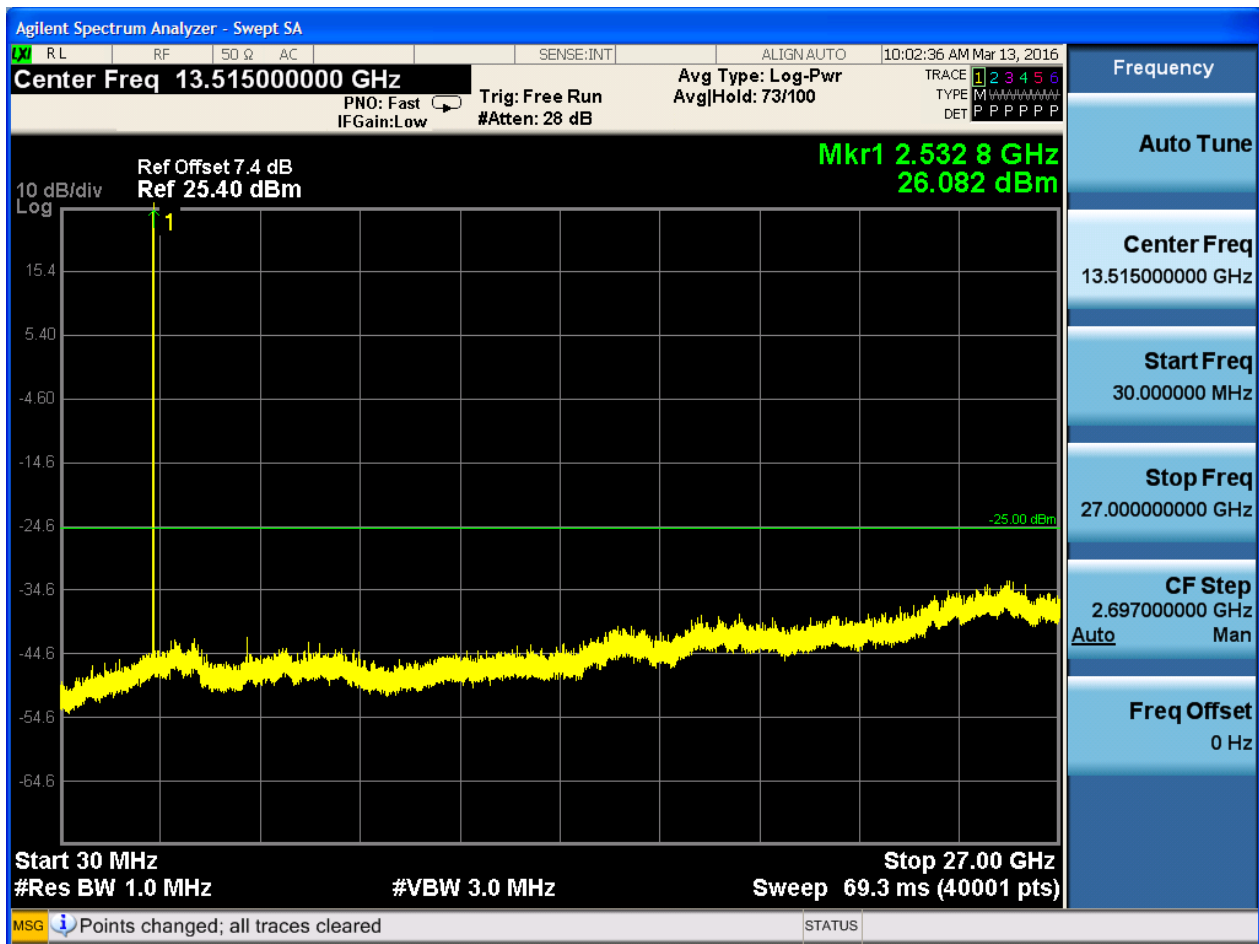


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



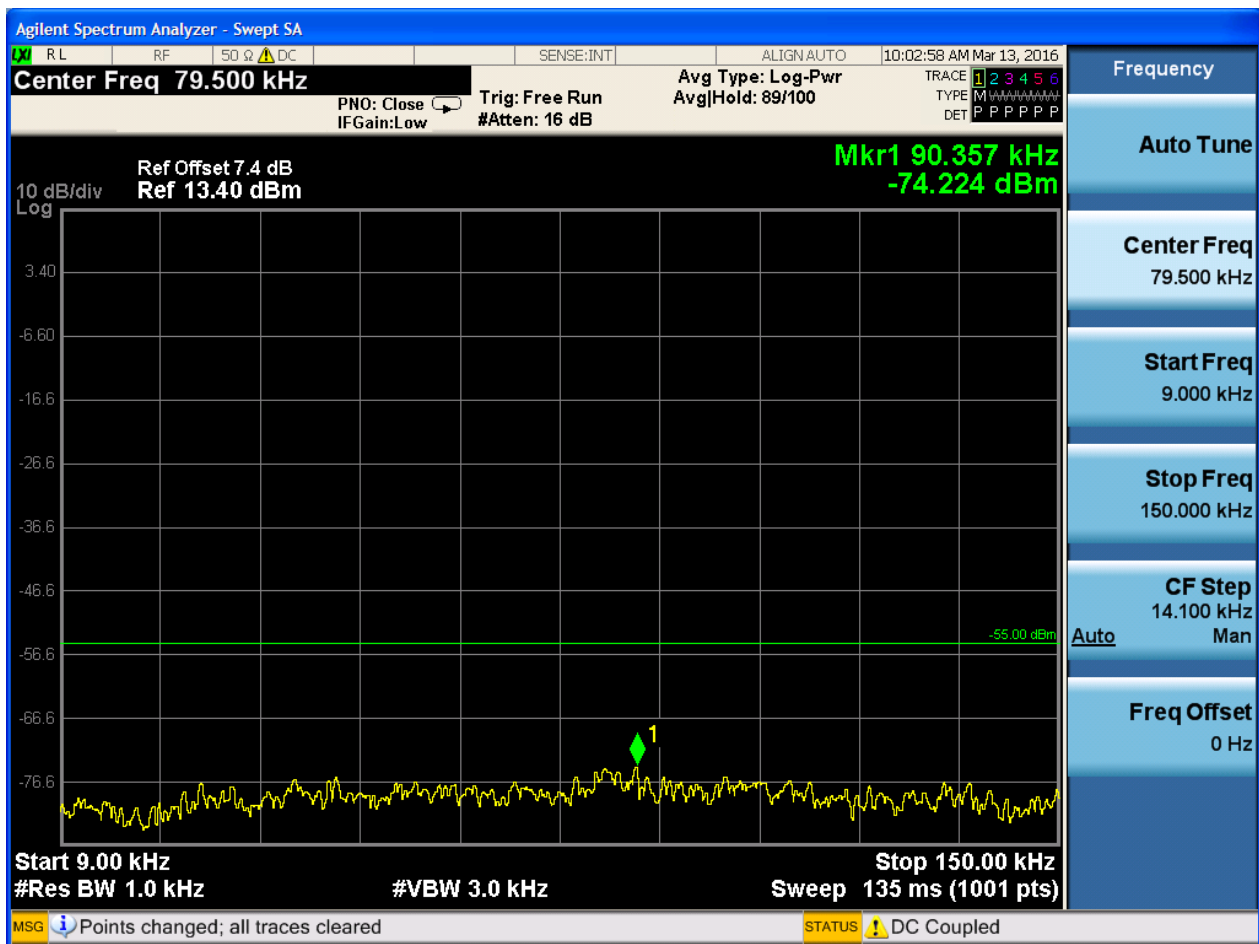


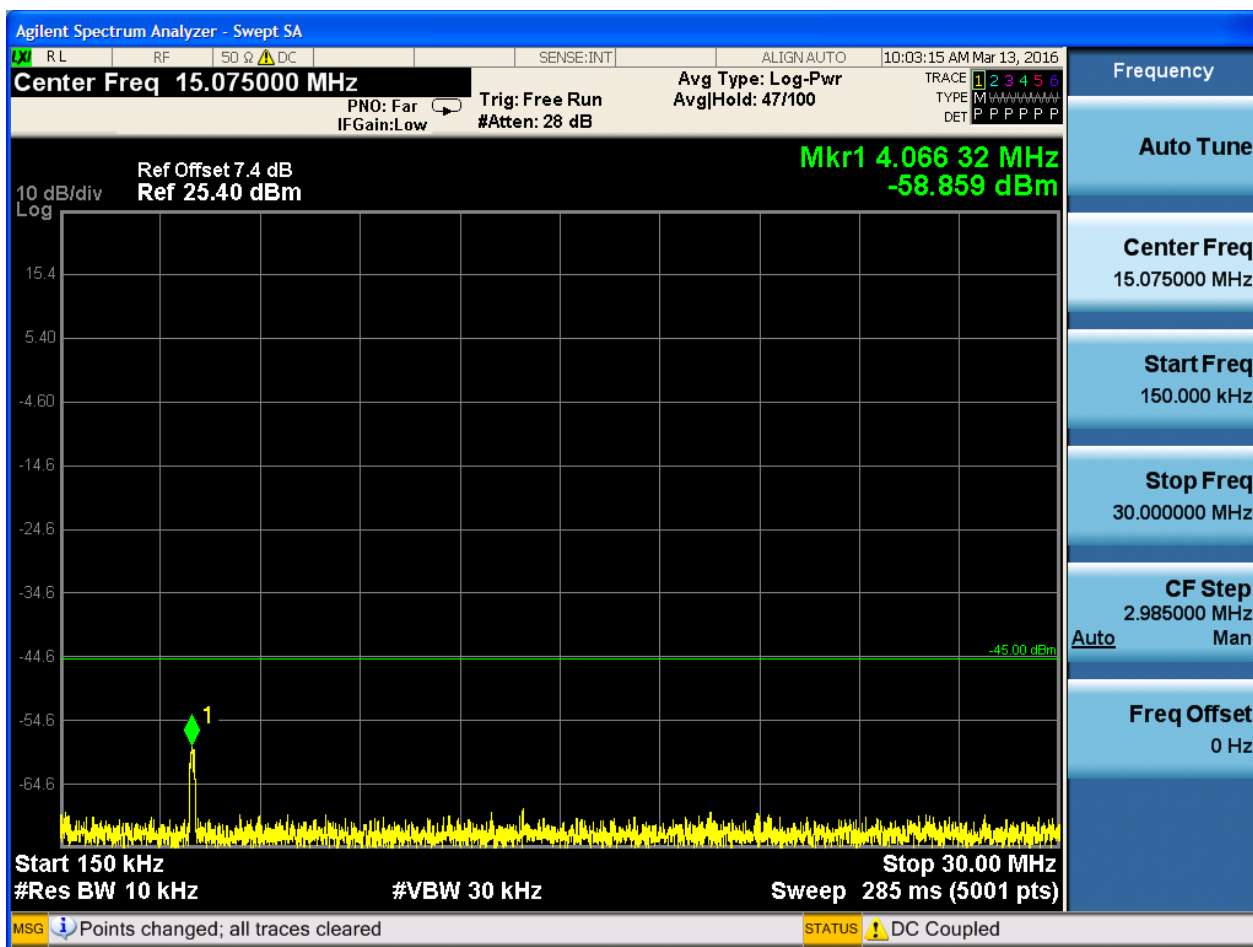


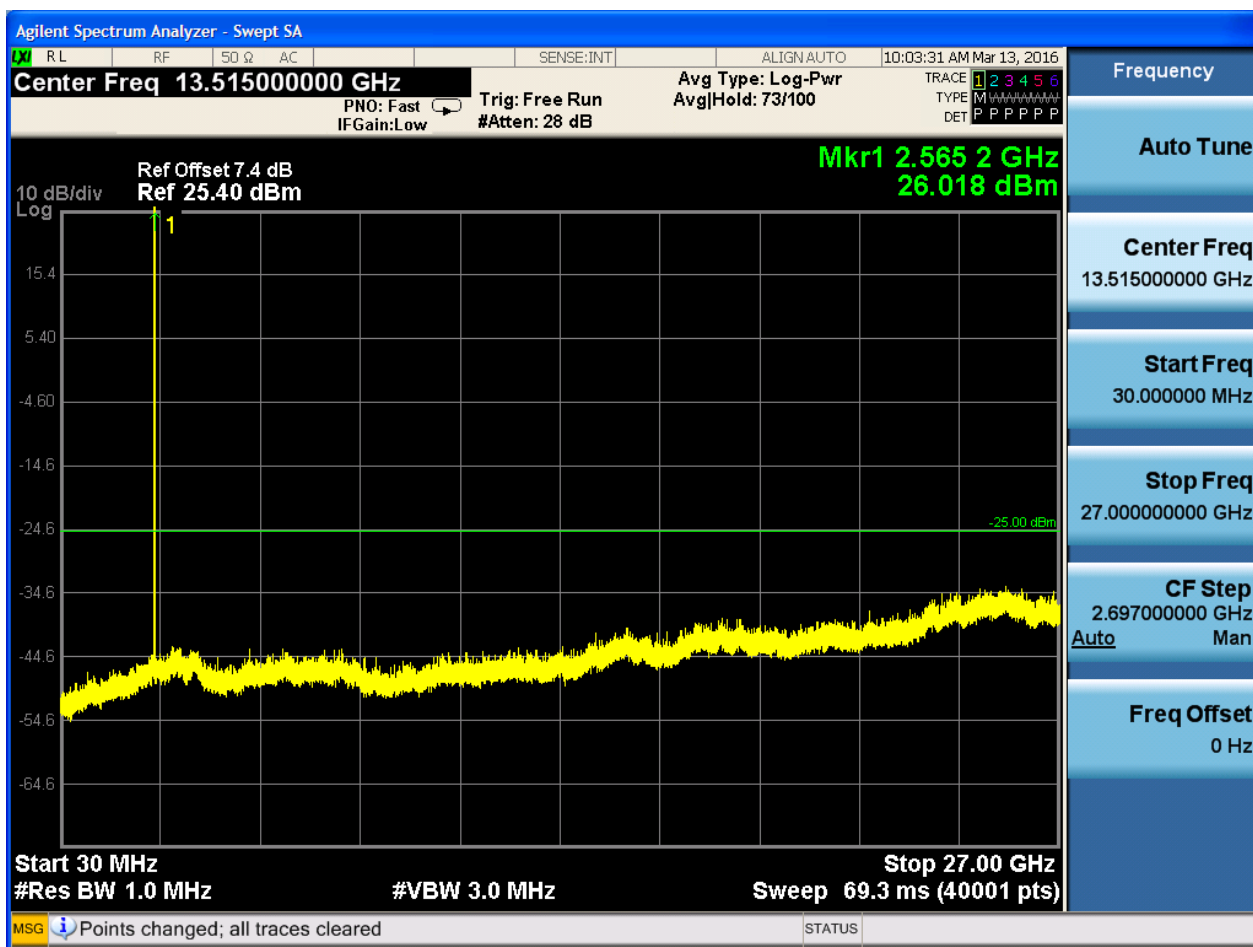


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0







6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

