



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	19.98	20.78	33	PASS
				RB1#13	20.84	21.64	33	PASS
				RB1#24	20.22	21.02	33	PASS
				RB12#0	19.84	20.64	33	PASS
				RB12#6	19.98	20.78	33	PASS
				RB12#13	19.87	20.67	33	PASS
				RB25#0	19.42	20.22	33	PASS
			MCH	RB1#0	19.81	20.61	33	PASS
				RB1#13	20.7	21.5	33	PASS
				RB1#24	19.87	20.67	33	PASS
				RB12#0	19.8	20.6	33	PASS
				RB12#6	19.82	20.62	33	PASS
				RB12#13	19.62	20.42	33	PASS
				RB25#0	19.68	20.48	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	19.91	20.71	33	PASS
				RB1#13	20.76	21.56	33	PASS
				RB1#24	19.97	20.77	33	PASS
				RB12#0	19.85	20.65	33	PASS
				RB12#6	19.76	20.56	33	PASS
				RB12#13	19.7	20.5	33	PASS
				RB25#0	19.56	20.36	33	PASS
		10	LCH	RB1#0	20.27	21.07	33	PASS
				RB1#25	21.09	21.89	33	PASS
				RB1#49	20.86	21.66	33	PASS
				RB25#0	19.61	20.41	33	PASS
				RB25#13	20.15	20.95	33	PASS
				RB25#25	20.25	21.05	33	PASS
				RB50#0	19.69	20.49	33	PASS
			MCH	RB1#0	20.12	20.92	33	PASS
				RB1#25	20.75	21.55	33	PASS
				RB1#49	20.3	21.1	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#0	19.63	20.43	33	PASS
				RB25#13	19.74	20.54	33	PASS
				RB25#25	19.64	20.44	33	PASS
				RB50#0	19.59	20.39	33	PASS
			HCH	RB1#0	20.54	21.34	33	PASS
				RB1#25	20.78	21.58	33	PASS
				RB1#49	20.15	20.95	33	PASS
				RB25#0	19.86	20.66	33	PASS
				RB25#13	19.62	20.42	33	PASS
				RB25#25	19.53	20.33	33	PASS
				RB50#0	19.73	20.53	33	PASS
		15	LCH	RB1#0	21.3	22.1	33	PASS
				RB1#38	21.38	22.18	33	PASS
				RB1#74	22	22.8	33	PASS
				RB36#0	19.64	20.44	33	PASS
				RB36#18	20.09	20.89	33	PASS
				RB36#39	20.52	21.32	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB75#0	19.9	20.7	33	PASS
			MCH	RB1#0	21.16	21.96	33	PASS
				RB1#38	20.64	21.44	33	PASS
				RB1#74	21.44	22.24	33	PASS
				RB36#0	19.32	20.12	33	PASS
				RB36#18	19.67	20.47	33	PASS
				RB36#39	19.78	20.58	33	PASS
				RB75#0	19.5	20.3	33	PASS
			HCH	RB1#0	21.85	22.65	33	PASS
				RB1#38	20.85	21.65	33	PASS
				RB1#74	21.18	21.98	33	PASS
				RB36#0	20.05	20.85	33	PASS
				RB36#18	19.86	20.66	33	PASS
				RB36#39	19.52	20.32	33	PASS
				RB75#0	19.79	20.59	33	PASS
		20	LCH	RB1#0	20.4	21.2	33	PASS
				RB1#50	21.52	22.32	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#99	20.68	21.48	33	PASS
				RB50#0	19.94	20.74	33	PASS
				RB50#25	20.56	21.36	33	PASS
				RB50#50	20.22	21.02	33	PASS
				RB100#0	20.07	20.87	33	PASS
			MCH	RB1#0	20.2	21	33	PASS
				RB1#50	20.58	21.38	33	PASS
				RB1#99	20.69	21.49	33	PASS
				RB50#0	19.48	20.28	33	PASS
				RB50#25	19.62	20.42	33	PASS
				RB50#50	19.84	20.64	33	PASS
				RB100#0	19.59	20.39	33	PASS
			HCH	RB1#0	21.17	21.97	33	PASS
				RB1#50	21.01	21.81	33	PASS
				RB1#99	20.38	21.18	33	PASS
				RB50#0	20.28	21.08	33	PASS
				RB50#25	20.16	20.96	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
	LTE/TM2	5		RB50#50	19.69	20.49	33	PASS
				RB100#0	20.09	20.89	33	PASS
			LCH	RB1#0	19.79	20.59	33	PASS
				RB1#13	20.19	20.99	33	PASS
				RB1#24	19.65	20.45	33	PASS
				RB12#0	18.92	19.72	33	PASS
				RB12#6	18.97	19.77	33	PASS
				RB12#13	18.99	19.79	33	PASS
				RB25#0	18.55	19.35	33	PASS
			MCH	RB1#0	19.42	20.22	33	PASS
				RB1#13	19.89	20.69	33	PASS
				RB1#24	19.04	19.84	33	PASS
				RB12#0	18.73	19.53	33	PASS
				RB12#6	18.76	19.56	33	PASS
				RB12#13	18.58	19.38	33	PASS
				RB25#0	18.61	19.41	33	PASS
			HCH	RB1#0	19.79	20.59	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#13	20.16	20.96	33	PASS
				RB1#24	19.31	20.11	33	PASS
				RB12#0	18.89	19.69	33	PASS
				RB12#6	18.92	19.72	33	PASS
				RB12#13	18.74	19.54	33	PASS
				RB25#0	18.59	19.39	33	PASS
		10	LCH	RB1#0	19.77	20.57	33	PASS
				RB1#25	20.47	21.27	33	PASS
				RB1#49	20.3	21.1	33	PASS
				RB25#0	18.62	19.42	33	PASS
				RB25#13	19.29	20.09	33	PASS
				RB25#25	19.33	20.13	33	PASS
				RB50#0	18.71	19.51	33	PASS
			MCH	RB1#0	19.6	20.4	33	PASS
				RB1#25	20.29	21.09	33	PASS
				RB1#49	19.78	20.58	33	PASS
				RB25#0	18.54	19.34	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#13	18.66	19.46	33	PASS
				RB25#25	18.57	19.37	33	PASS
				RB50#0	18.52	19.32	33	PASS
			HCH	RB1#0	19.59	20.39	33	PASS
				RB1#25	20.04	20.84	33	PASS
				RB1#49	19.5	20.3	33	PASS
				RB25#0	18.88	19.68	33	PASS
				RB25#13	18.68	19.48	33	PASS
				RB25#25	18.61	19.41	33	PASS
				RB50#0	18.79	19.59	33	PASS
		15	LCH	RB1#0	20.63	21.43	33	PASS
				RB1#38	20.72	21.52	33	PASS
				RB1#74	21.33	22.13	33	PASS
				RB36#0	18.63	19.43	33	PASS
				RB36#18	19.08	19.88	33	PASS
				RB36#39	19.5	20.3	33	PASS
				RB75#0	18.95	19.75	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	20.46	21.26	33	PASS
				RB1#38	20.01	20.81	33	PASS
				RB1#74	20.79	21.59	33	PASS
				RB36#0	18.33	19.13	33	PASS
				RB36#18	18.62	19.42	33	PASS
				RB36#39	18.73	19.53	33	PASS
				RB75#0	18.55	19.35	33	PASS
			HCH	RB1#0	21.17	21.97	33	PASS
				RB1#38	20.14	20.94	33	PASS
				RB1#74	20.45	21.25	33	PASS
				RB36#0	19.05	19.85	33	PASS
				RB36#18	18.93	19.73	33	PASS
				RB36#39	18.63	19.43	33	PASS
				RB75#0	18.8	19.6	33	PASS
		20	LCH	RB1#0	19.96	20.76	33	PASS
				RB1#50	20.96	21.76	33	PASS
				RB1#99	20.13	20.93	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#0	18.9	19.7	33	PASS
				RB50#25	19.56	20.36	33	PASS
				RB50#50	19.13	19.93	33	PASS
				RB100#0	18.99	19.79	33	PASS
			MCH	RB1#0	19.51	20.31	33	PASS
				RB1#50	19.99	20.79	33	PASS
				RB1#99	20.05	20.85	33	PASS
				RB50#0	18.42	19.22	33	PASS
				RB50#25	18.56	19.36	33	PASS
				RB50#50	18.78	19.58	33	PASS
				RB100#0	18.59	19.39	33	PASS
			HCH	RB1#0	20.6	21.4	33	PASS
				RB1#50	20.46	21.26	33	PASS
				RB1#99	19.88	20.68	33	PASS
				RB50#0	19.25	20.05	33	PASS
				RB50#25	19.09	19.89	33	PASS
				RB50#50	18.75	19.55	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB100#0	19.04	19.84	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:

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

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

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

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
BAND7	LTE/TM1	5	LCH	RB1#0	5.23	13	PASS
				RB1#13	4.77	13	PASS
				RB1#24	5.16	13	PASS
				RB12#0	5.83	13	PASS
				RB12#6	5.77	13	PASS
				RB12#13	5.74	13	PASS
				RB25#0	6.09	13	PASS
			MCH	RB1#0	5.82	13	PASS
				RB1#13	5.38	13	PASS
				RB1#24	5.76	13	PASS
				RB12#0	5.95	13	PASS
				RB12#6	5.98	13	PASS
				RB12#13	6	13	PASS
				RB25#0	6	13	PASS
			HCH	RB1#0	5.34	13	PASS
				RB1#13	4.73	13	PASS
				RB1#24	5.41	13	PASS
				RB12#0	5.67	13	PASS
				RB12#6	5.69	13	PASS
				RB12#13	5.7	13	PASS
				RB25#0	5.99	13	PASS
		10	LCH	RB1#0	4.9	13	PASS
				RB1#25	4.64	13	PASS
				RB1#49	4.7	13	PASS
				RB25#0	6.09	13	PASS
				RB25#13	5.79	13	PASS
				RB25#25	5.81	13	PASS
				RB50#0	6.27	13	PASS
			MCH	RB1#0	5.11	13	PASS
				RB1#25	4.88	13	PASS
				RB1#49	5.35	13	PASS
				RB25#0	5.99	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	6.05	13	PASS
				RB25#25	5.99	13	PASS
				RB50#0	6.22	13	PASS
			HCH	RB1#0	4.63	13	PASS
				RB1#25	4.42	13	PASS
				RB1#49	5.02	13	PASS
				RB25#0	5.54	13	PASS
				RB25#13	5.73	13	PASS
				RB25#25	5.69	13	PASS
				RB50#0	6.15	13	PASS
		15	LCH	RB1#0	4.36	13	PASS
				RB1#38	4.47	13	PASS
				RB1#74	4.04	13	PASS
				RB36#0	6.24	13	PASS
				RB36#18	5.95	13	PASS
				RB36#39	5.76	13	PASS
				RB75#0	6.32	13	PASS
			MCH	RB1#0	5.11	13	PASS
				RB1#38	5.24	13	PASS
				RB1#74	4.74	13	PASS
				RB36#0	6.07	13	PASS
				RB36#18	6.37	13	PASS
				RB36#39	6.2	13	PASS
				RB75#0	6.53	13	PASS
			HCH	RB1#0	3.77	13	PASS
				RB1#38	4.46	13	PASS
				RB1#74	4.52	13	PASS
				RB36#0	5.59	13	PASS
				RB36#18	5.63	13	PASS
				RB36#39	5.75	13	PASS
				RB75#0	6.17	13	PASS
		20	LCH	RB1#0	4.98	13	PASS
				RB1#50	4.24	13	PASS
				RB1#99	5.07	13	PASS
				RB50#0	6.05	13	PASS
				RB50#25	5.6	13	PASS
				RB50#50	5.74	13	PASS
				RB100#0	6.16	13	PASS
			MCH	RB1#0	5.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	5.04	13	PASS
				RB1#99	5.07	13	PASS
				RB50#0	6.14	13	PASS
				RB50#25	6.37	13	PASS
				RB50#50	6.27	13	PASS
				RB100#0	6.53	13	PASS
			HCH	RB1#0	4.4	13	PASS
				RB1#50	4.28	13	PASS
				RB1#99	5.08	13	PASS
				RB50#0	5.47	13	PASS
				RB50#25	5.52	13	PASS
				RB50#50	5.84	13	PASS
				RB100#0	5.99	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.65	13	PASS
				RB1#13	5.48	13	PASS
				RB1#24	5.96	13	PASS
				RB12#0	6.5	13	PASS
				RB12#6	6.61	13	PASS
				RB12#13	6.29	13	PASS
				RB25#0	6.75	13	PASS
			MCH	RB1#0	6.13	13	PASS
				RB1#13	5.85	13	PASS
				RB1#24	6.12	13	PASS
				RB12#0	6.53	13	PASS
				RB12#6	6.76	13	PASS
				RB12#13	6.58	13	PASS
				RB25#0	6.9	13	PASS
		10	HCH	RB1#0	5.51	13	PASS
				RB1#13	5.24	13	PASS
				RB1#24	5.96	13	PASS
				RB12#0	6.01	13	PASS
				RB12#6	6.36	13	PASS
				RB12#13	6.36	13	PASS
				RB25#0	6.52	13	PASS
			LCH	RB1#0	5.85	13	PASS
				RB1#25	5.41	13	PASS
				RB1#49	5.65	13	PASS
				RB25#0	6.77	13	PASS
				RB25#13	6.49	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	6.42	13	PASS
				RB50#0	6.78	13	PASS
			MCH	RB1#0	6.32	13	PASS
				RB1#25	5.99	13	PASS
				RB1#49	5.91	13	PASS
				RB25#0	6.63	13	PASS
				RB25#13	6.66	13	PASS
				RB25#25	6.65	13	PASS
				RB50#0	6.93	13	PASS
			HCH	RB1#0	5.24	13	PASS
				RB1#25	5.18	13	PASS
				RB1#49	5.41	13	PASS
				RB25#0	6.13	13	PASS
				RB25#13	6.39	13	PASS
				RB25#25	6.27	13	PASS
				RB50#0	6.72	13	PASS
		15	LCH	RB1#0	5.29	13	PASS
				RB1#38	5.12	13	PASS
				RB1#74	4.65	13	PASS
				RB36#0	6.74	13	PASS
				RB36#18	6.75	13	PASS
				RB36#39	6.44	13	PASS
				RB75#0	7.21	13	PASS
			MCH	RB1#0	5.52	13	PASS
				RB1#38	5.91	13	PASS
				RB1#74	5.33	13	PASS
				RB36#0	6.97	13	PASS
				RB36#18	6.92	13	PASS
				RB36#39	6.7	13	PASS
				RB75#0	7.12	13	PASS
			HCH	RB1#0	4.44	13	PASS
				RB1#38	4.9	13	PASS
				RB1#74	4.85	13	PASS
				RB36#0	6.34	13	PASS
				RB36#18	6.4	13	PASS
				RB36#39	6.47	13	PASS
				RB75#0	7	13	PASS
		20	LCH	RB1#0	5.47	13	PASS
				RB1#50	4.67	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	5.46	13	PASS
				RB50#0	6.72	13	PASS
				RB50#25	6.44	13	PASS
				RB50#50	6.54	13	PASS
				RB100#0	7.24	13	PASS
			MCH	RB1#0	6	13	PASS
				RB1#50	6.18	13	PASS
				RB1#99	5.82	13	PASS
				RB50#0	6.9	13	PASS
				RB50#25	6.92	13	PASS
				RB50#50	6.74	13	PASS
				RB100#0	7.29	13	PASS
			HCH	RB1#0	5.02	13	PASS
				RB1#50	4.97	13	PASS
				RB1#99	5.61	13	PASS
				RB50#0	6.25	13	PASS
				RB50#25	6.31	13	PASS
				RB50#50	6.36	13	PASS
				RB100#0	6.83	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

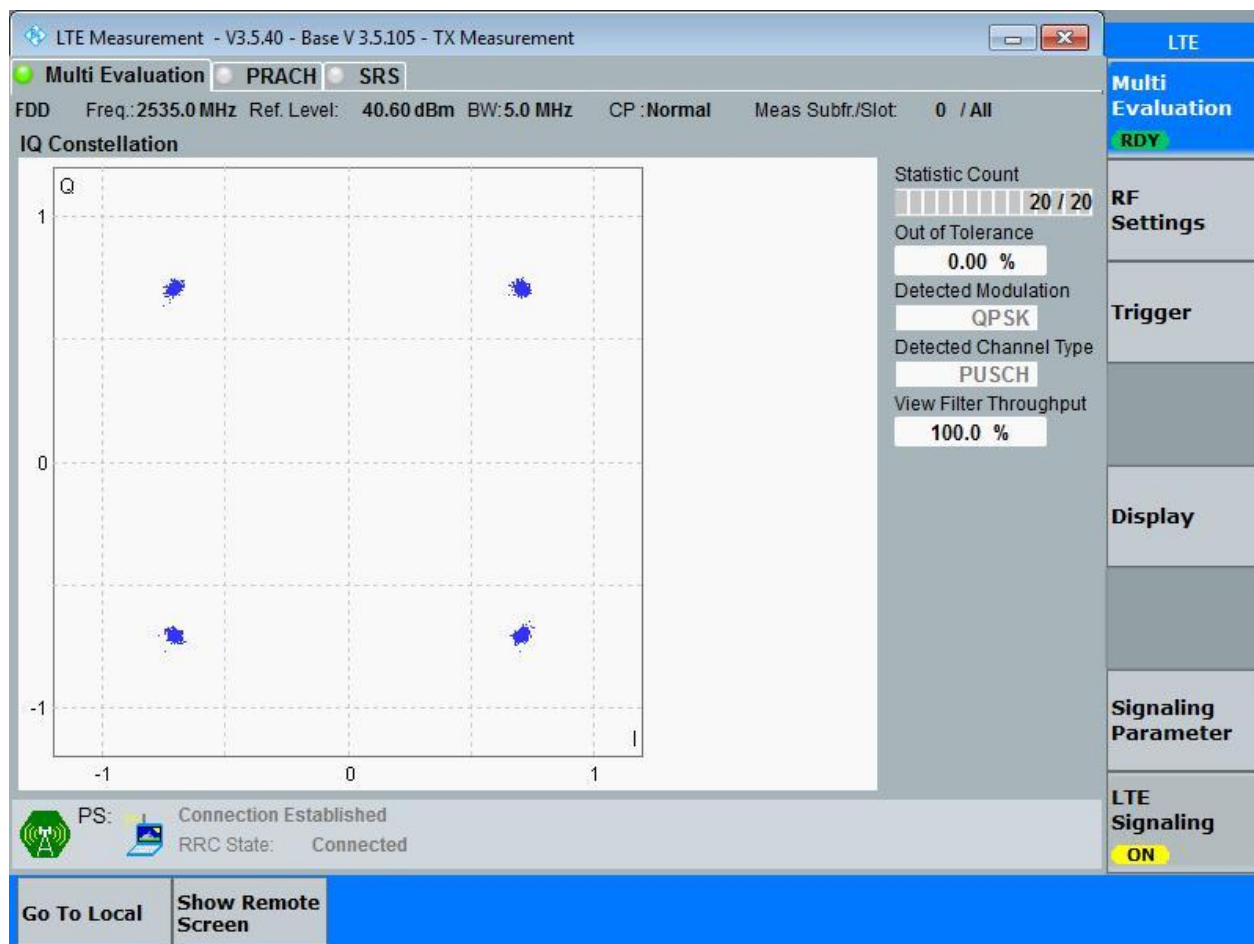
3.1.1 Test Band = BAND7

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

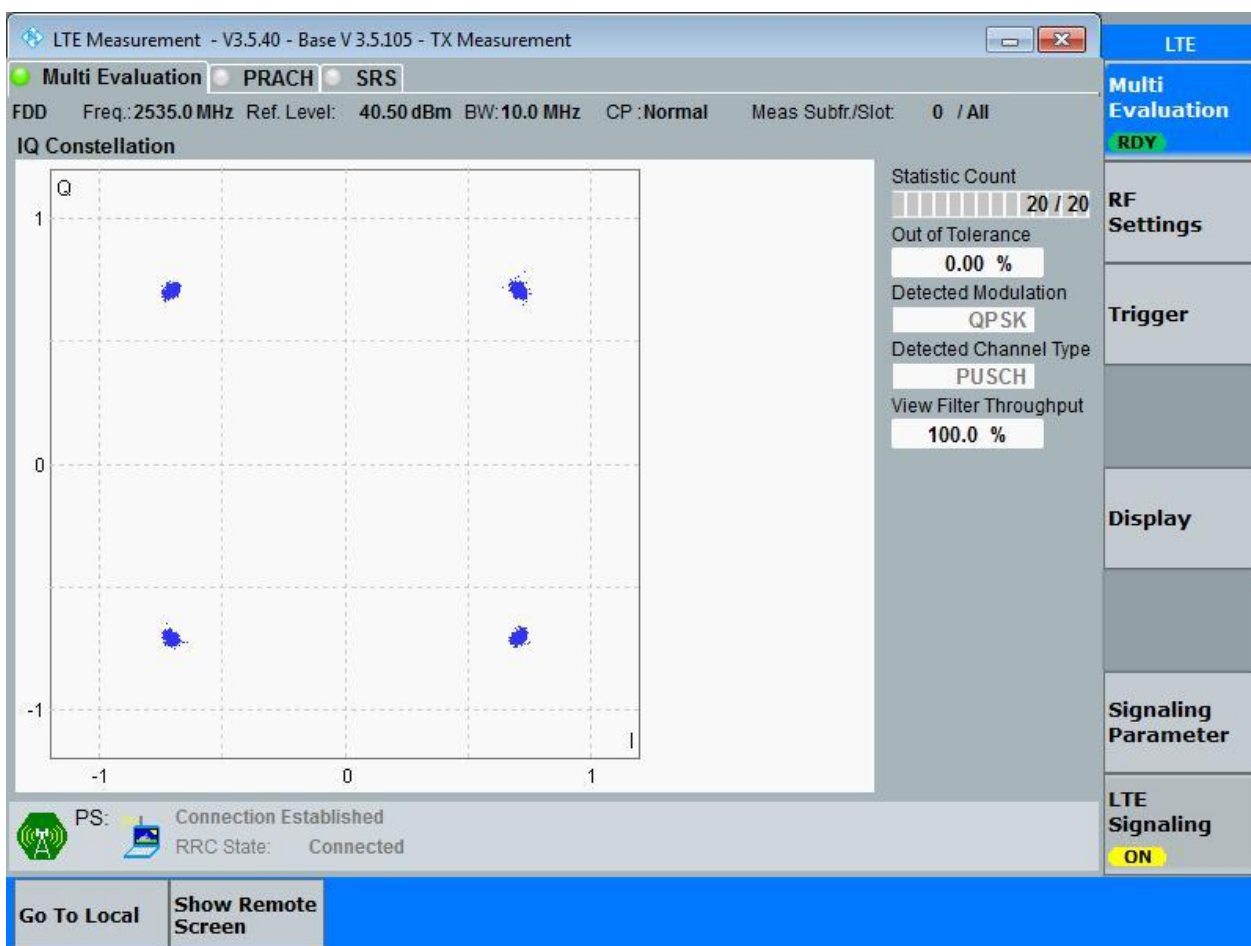
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

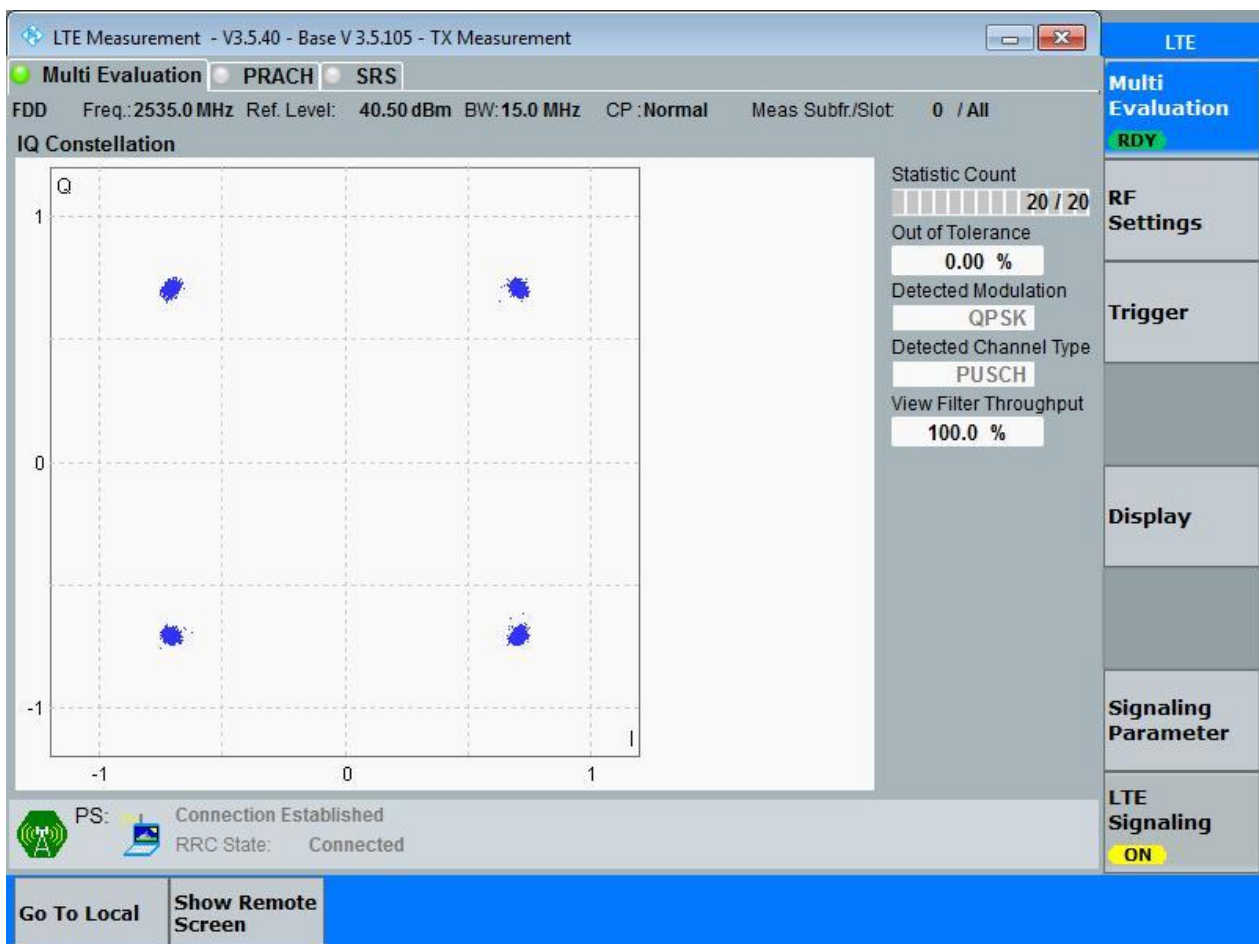
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

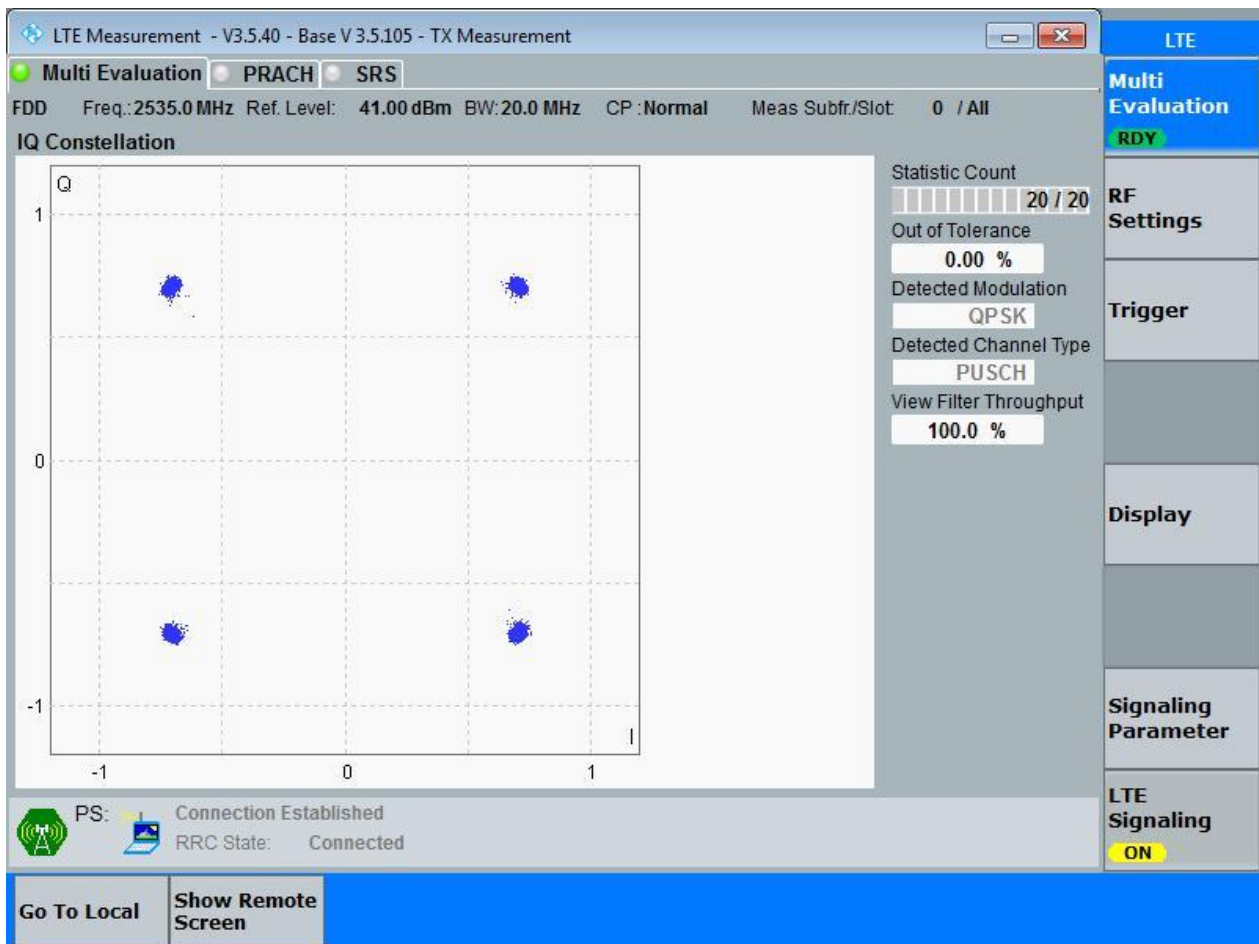
3.1.1.1.3.1.1 Test RB = RB75#0



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

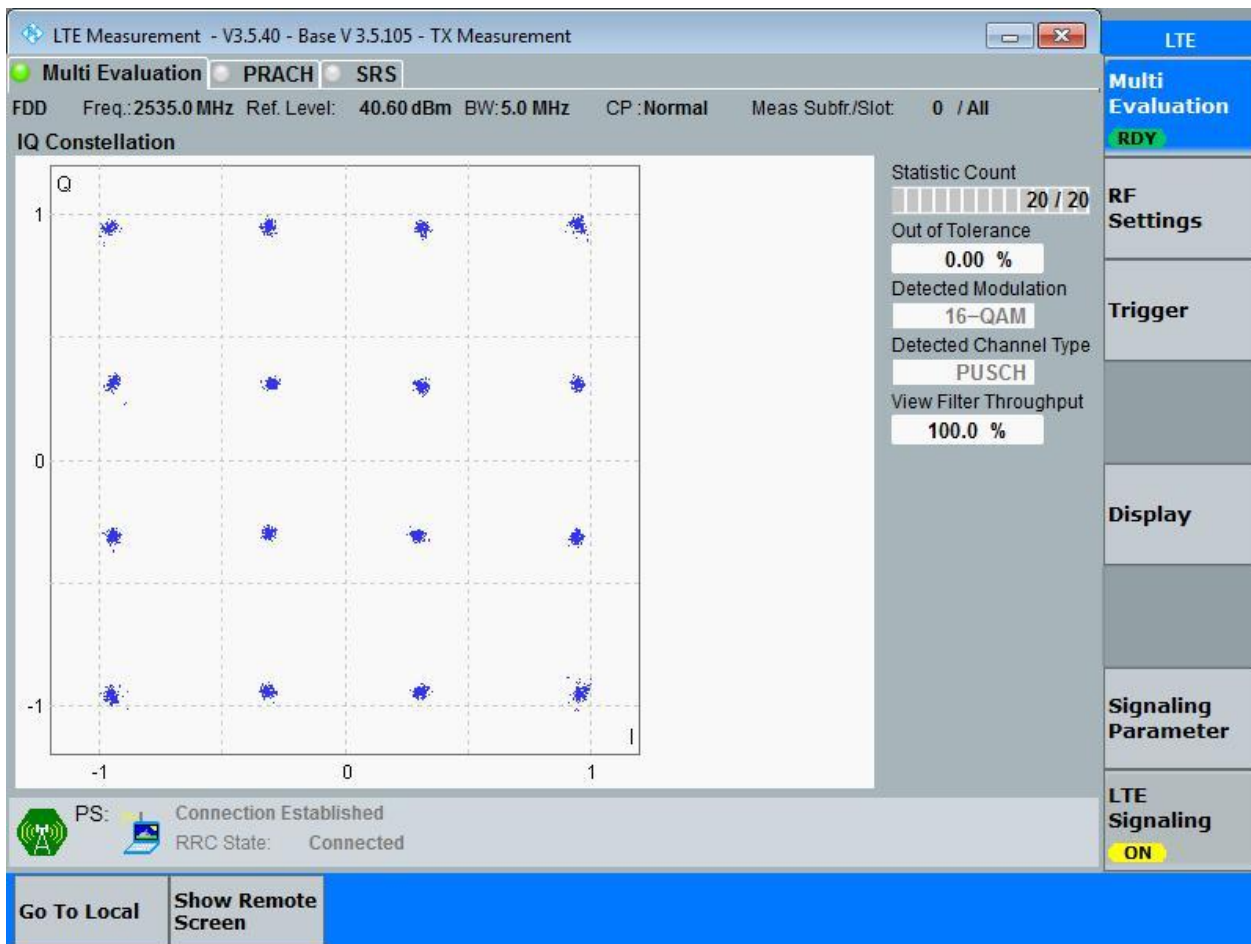


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

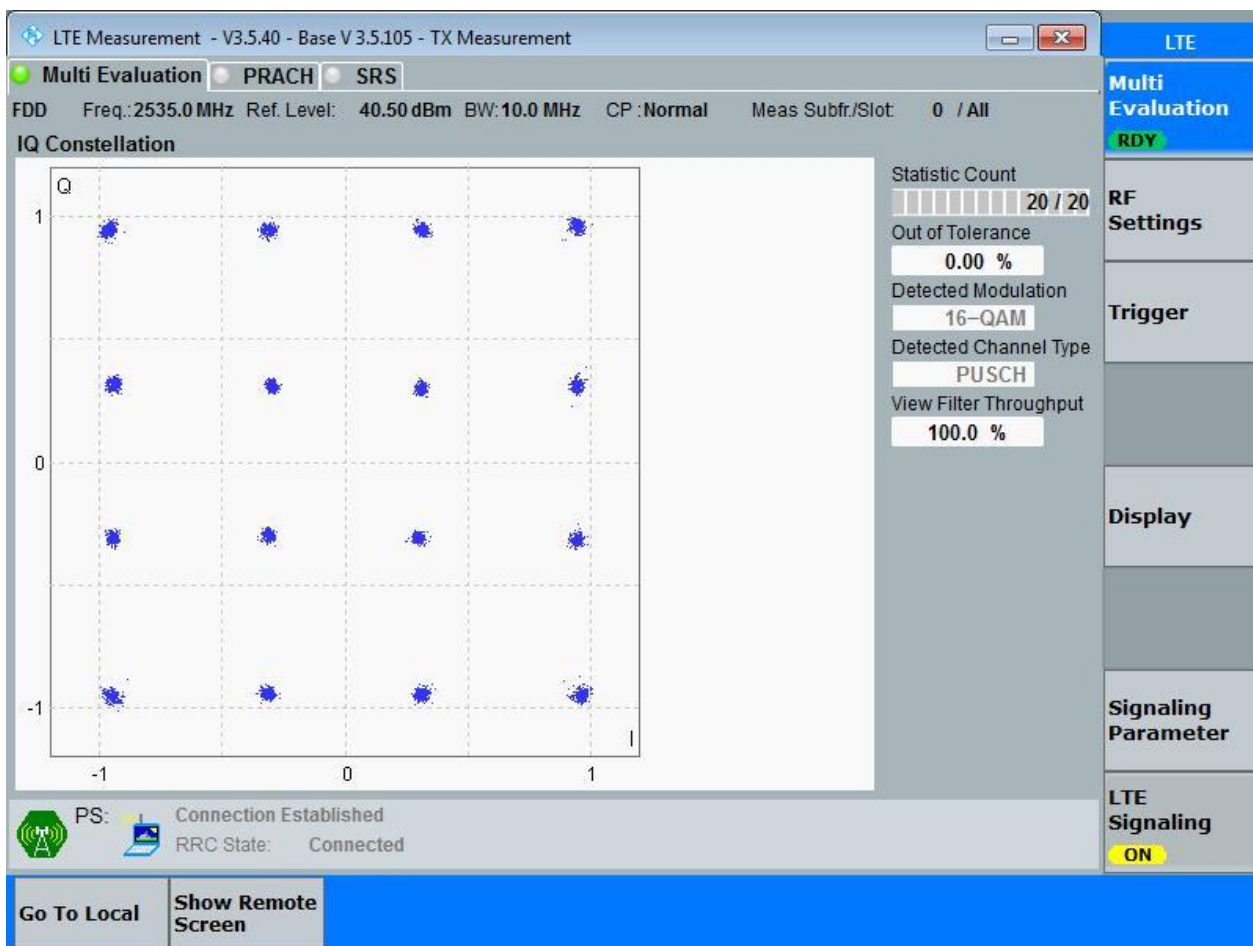
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

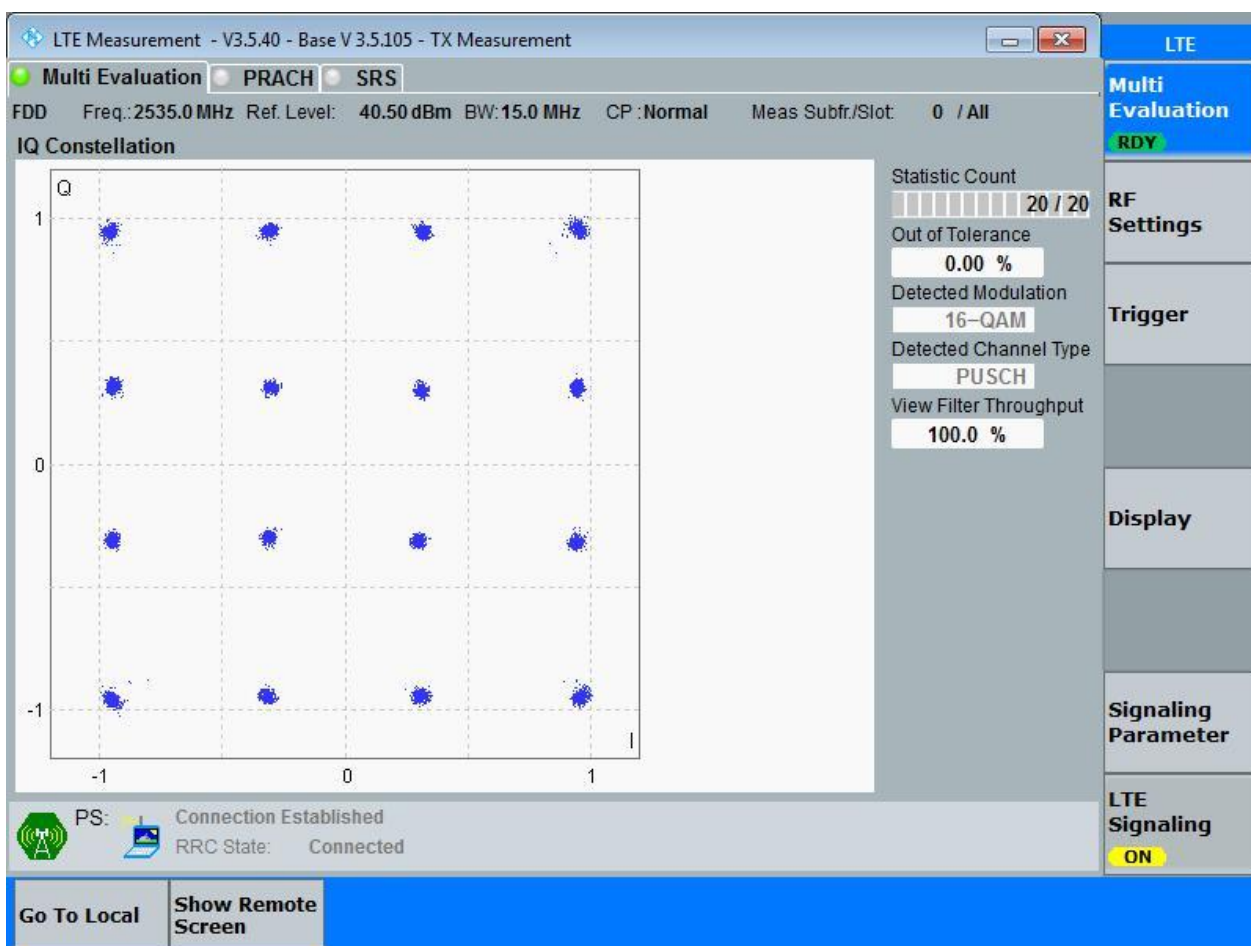
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

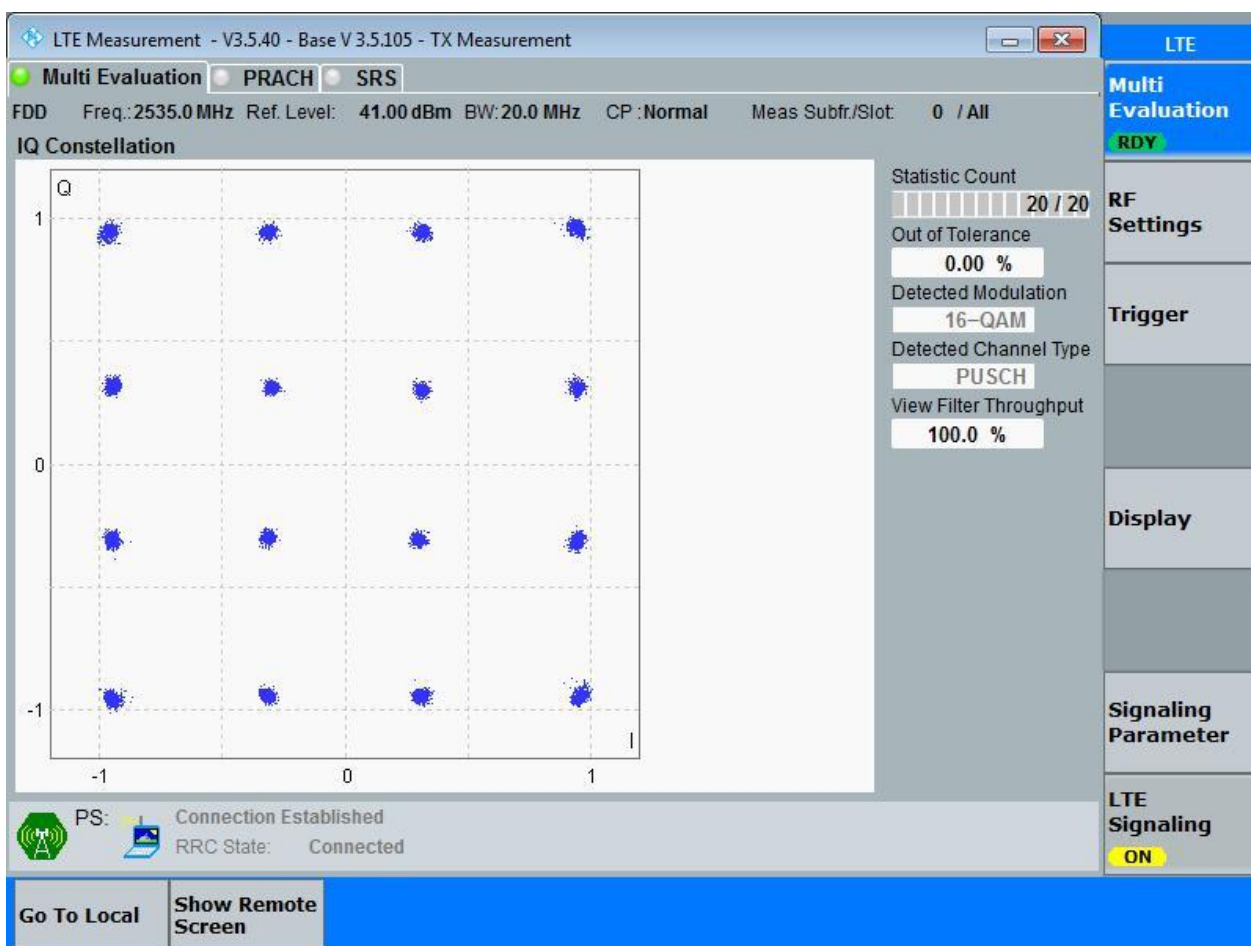
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.89	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.99	9.65	Pass
			MCH	RB50#0	8.99	9.66	Pass
			HCH	RB50#0	8.98	9.60	Pass
		15	LCH	RB75#0	13.47	14.38	Pass
			MCH	RB75#0	13.46	14.35	Pass
			HCH	RB75#0	13.46	14.38	Pass
		20	LCH	RB100#0	17.96	19.05	Pass
			MCH	RB100#0	17.97	19.05	Pass
			HCH	RB100#0	17.92	19.04	Pass
	LTE/TM2	5	LCH	RB25#0	4.49	4.88	Pass
			MCH	RB25#0	4.51	4.87	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	9.00	9.66	Pass
			MCH	RB50#0	9.00	9.64	Pass
			HCH	RB50#0	8.97	9.60	Pass
		15	LCH	RB75#0	13.48	14.46	Pass
			MCH	RB75#0	13.47	14.36	Pass
			HCH	RB75#0	13.45	14.37	Pass
		20	LCH	RB100#0	17.97	19.07	Pass
			MCH	RB100#0	17.96	19.10	Pass
			HCH	RB100#0	17.93	19.07	Pass

Part II - Test Plots

4.1 For LTE

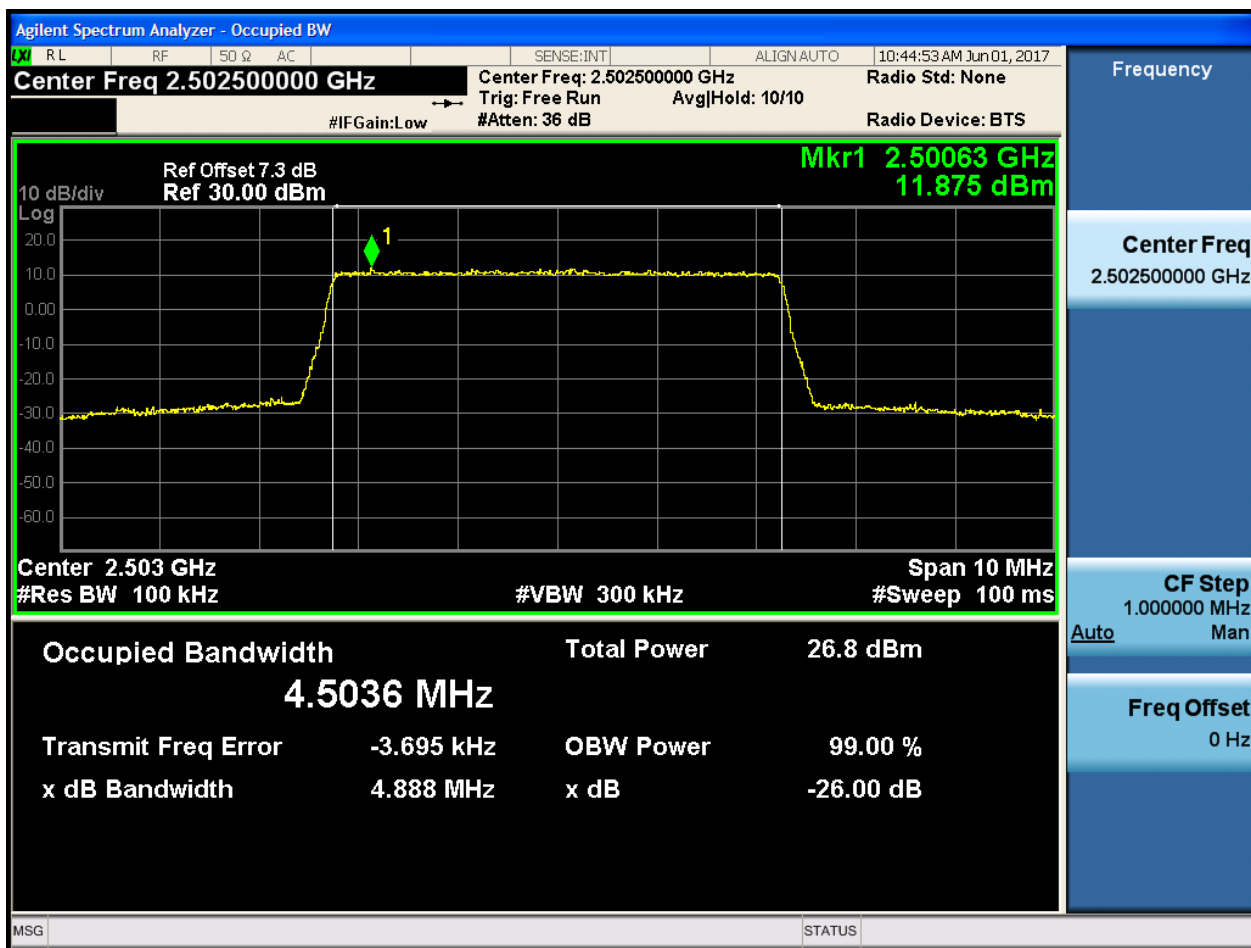
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

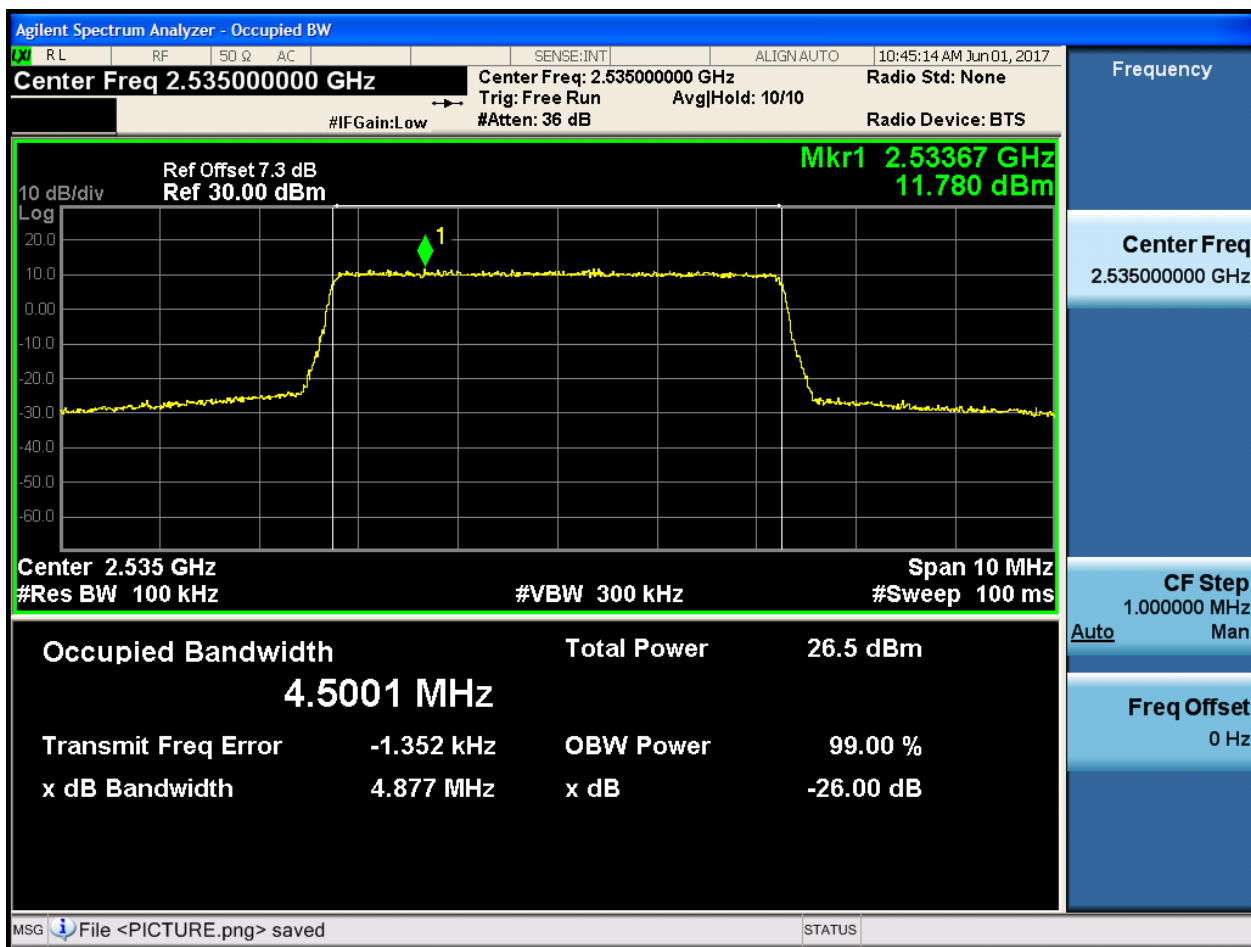
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0



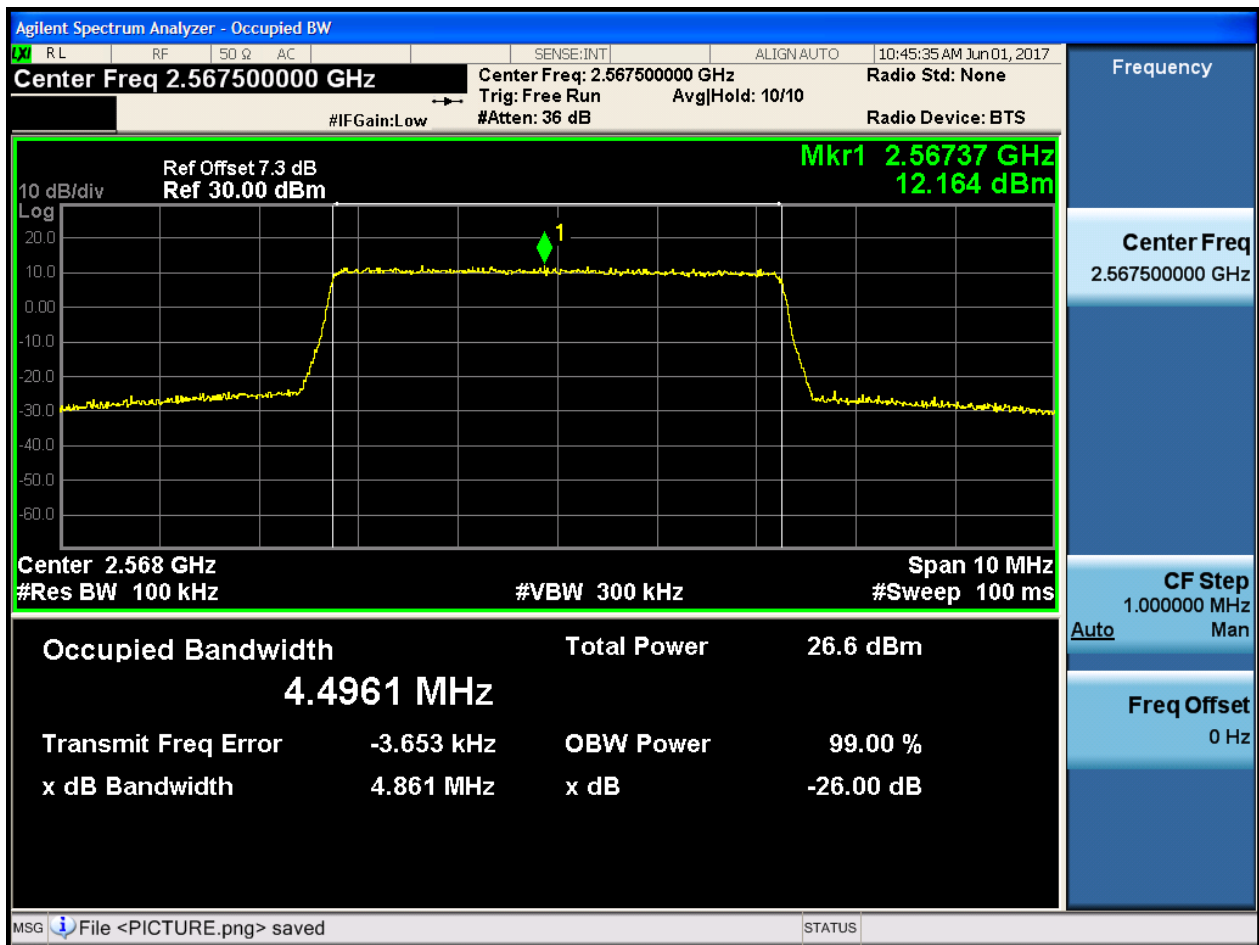
4. 1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



4.1.1.1.1.3 Test Channel = HCH

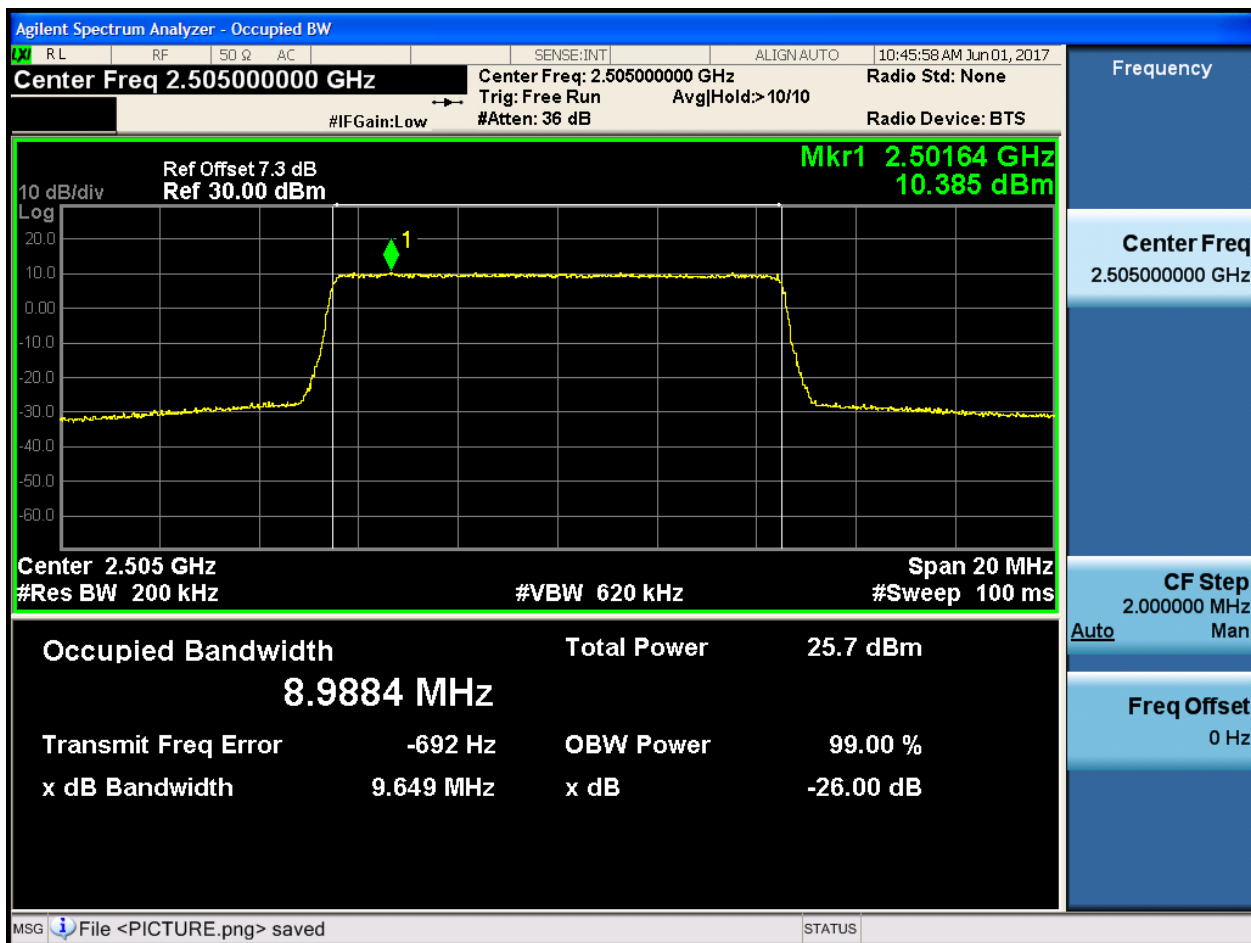
4.1.1.1.1.3.1 Test RB = RB25#0



4.1.1.1.2 Test Bandwidth = 10

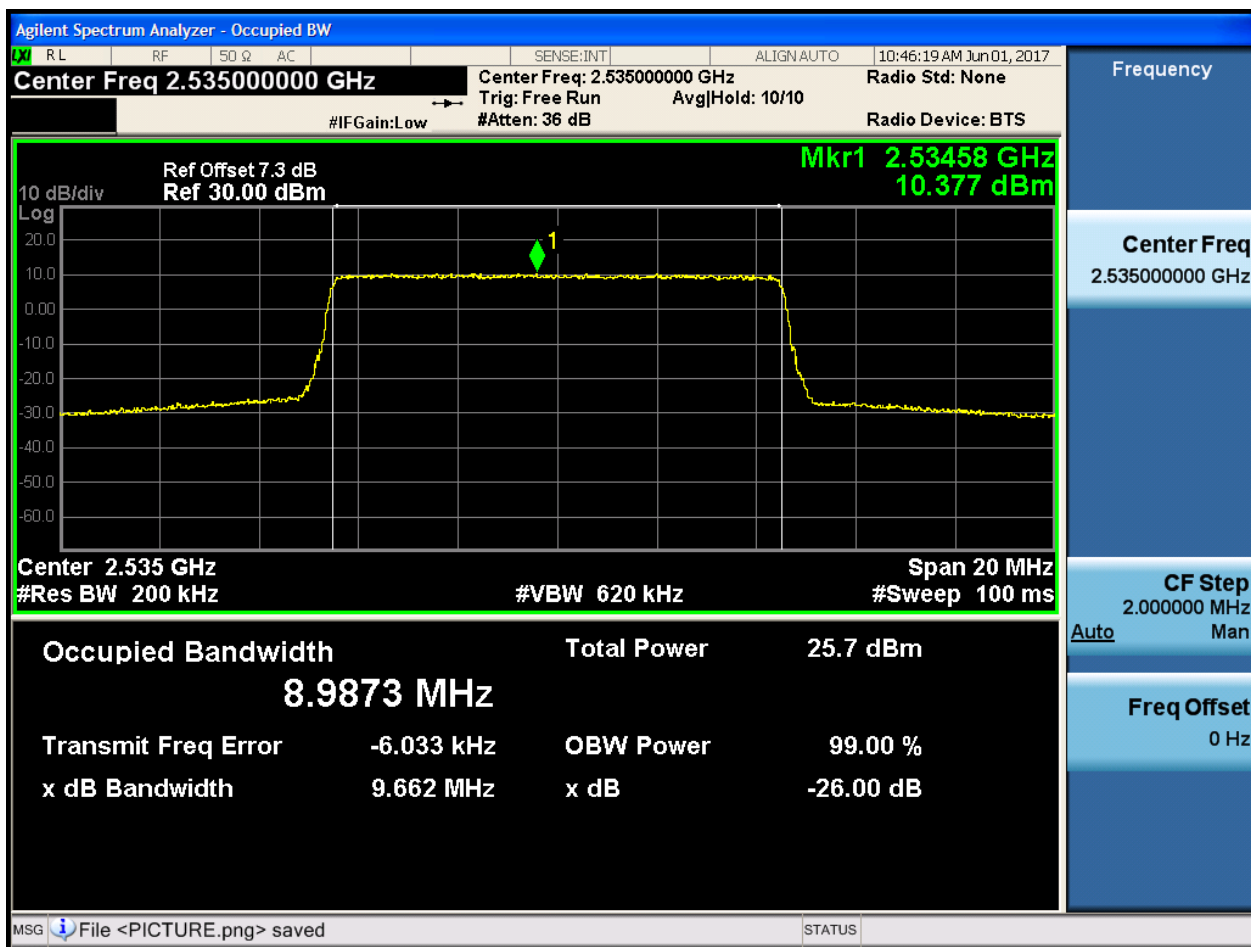
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



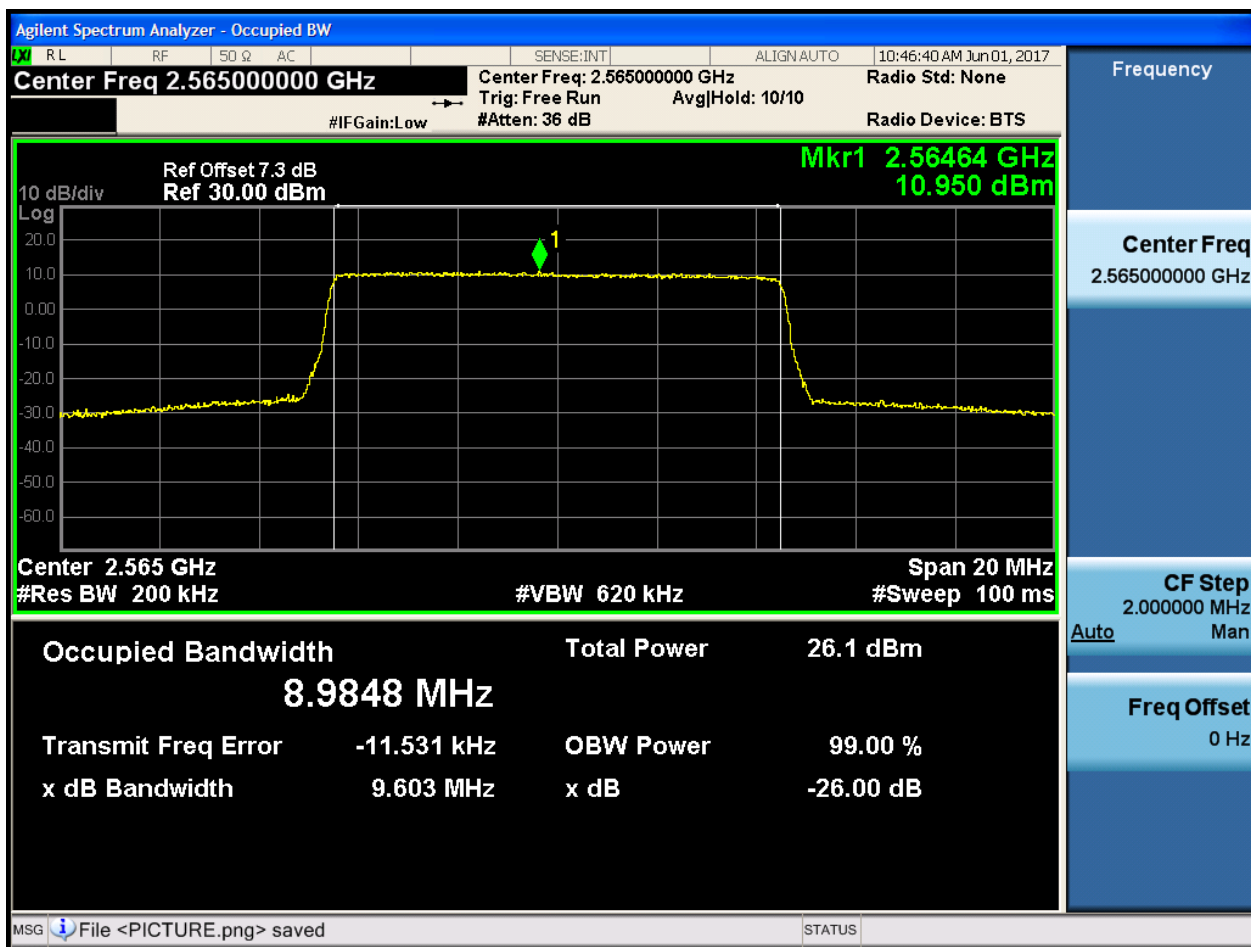
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

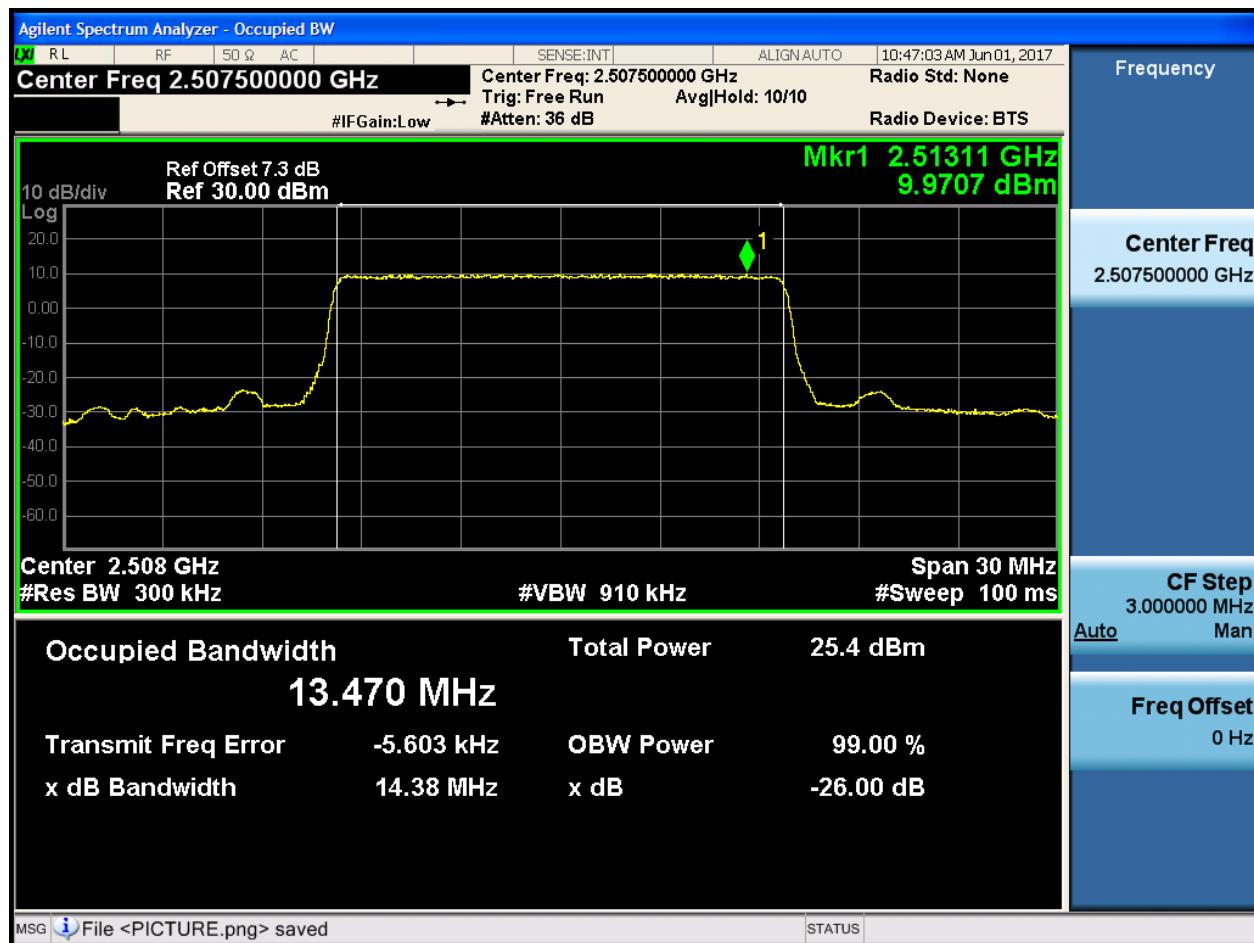
4.1.1.1.2.3.1 Test RB = RB50#0



4.1.1.1.3 Test Bandwidth = 15

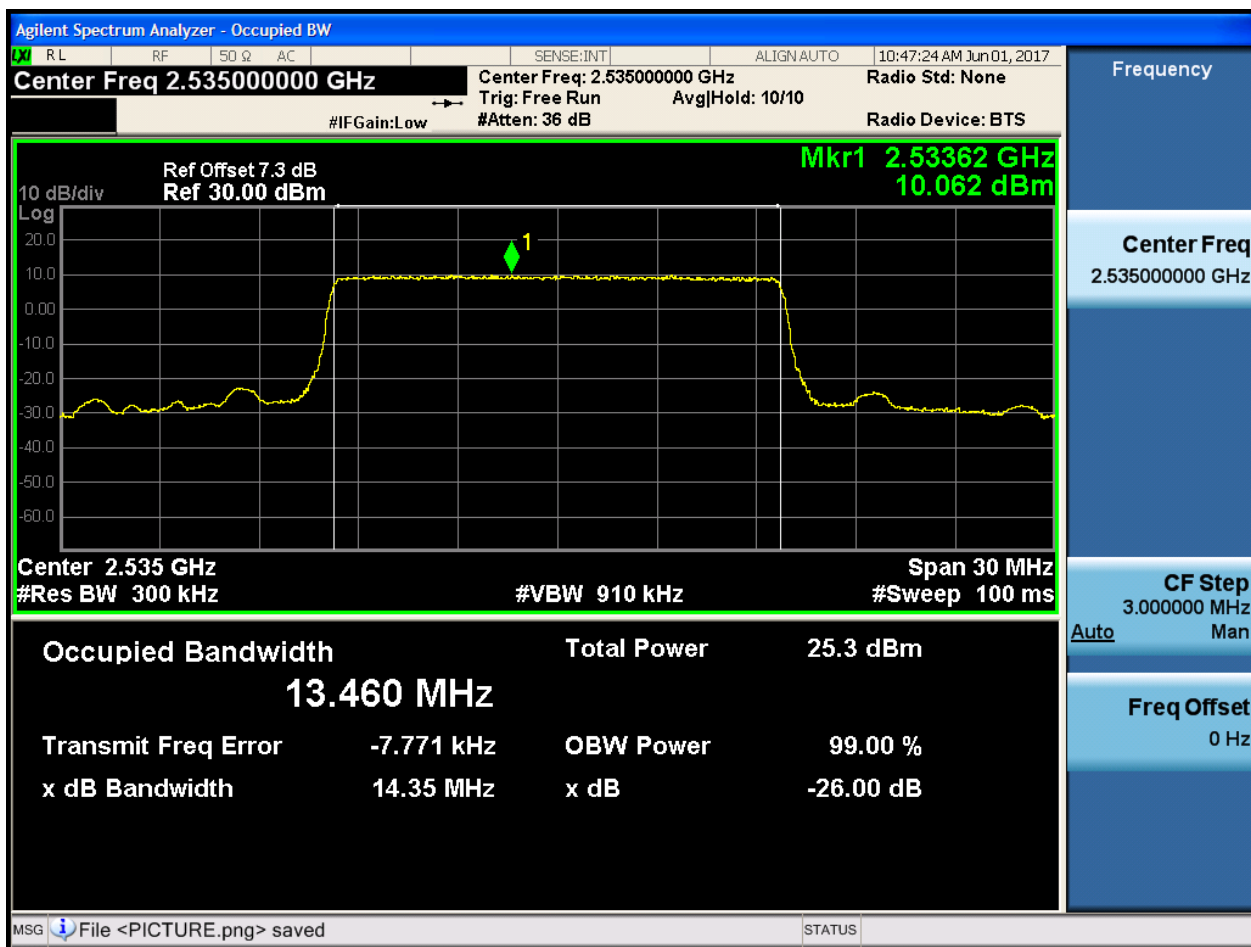
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



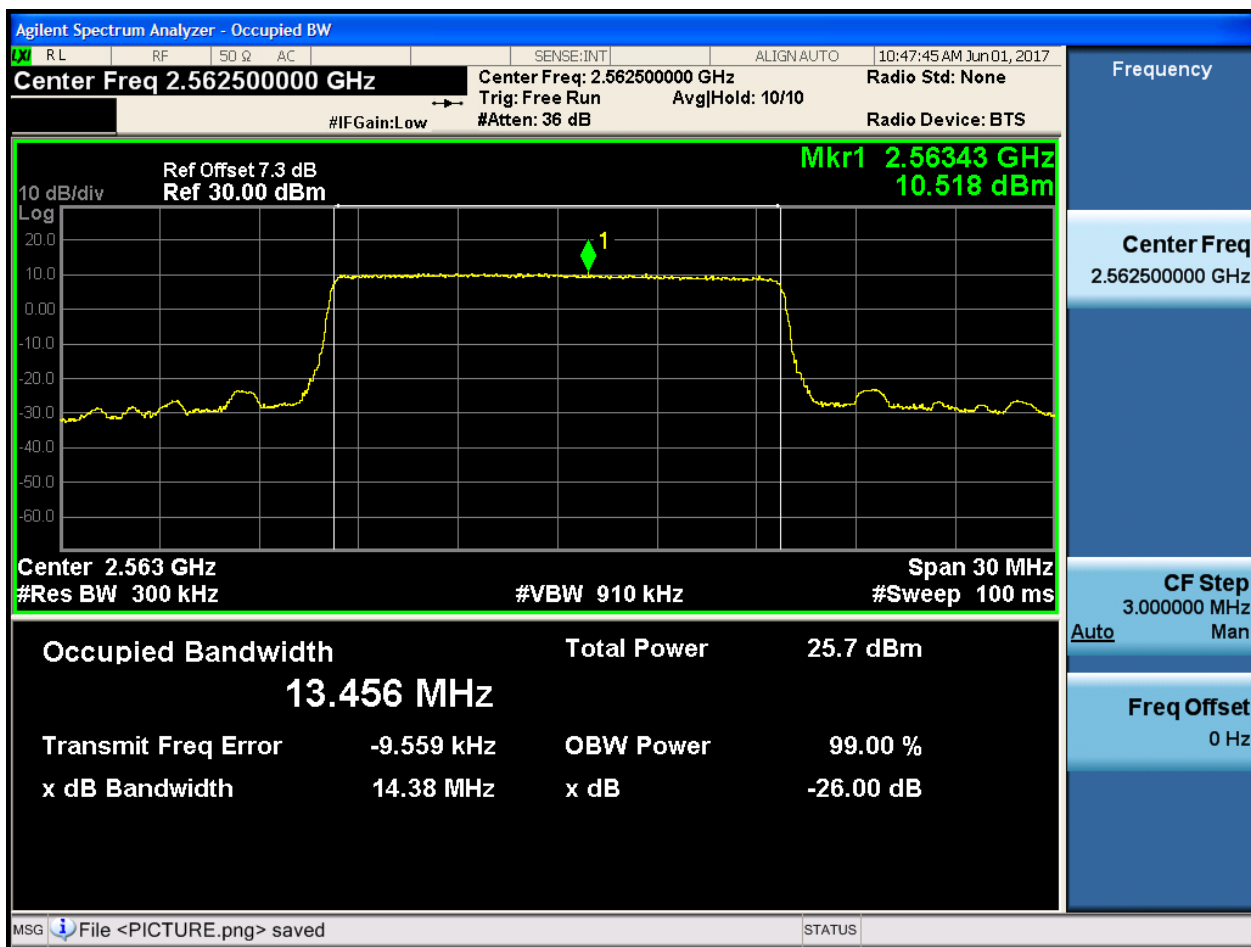
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0



4.1.1.1.3.3 Test Channel = HCH

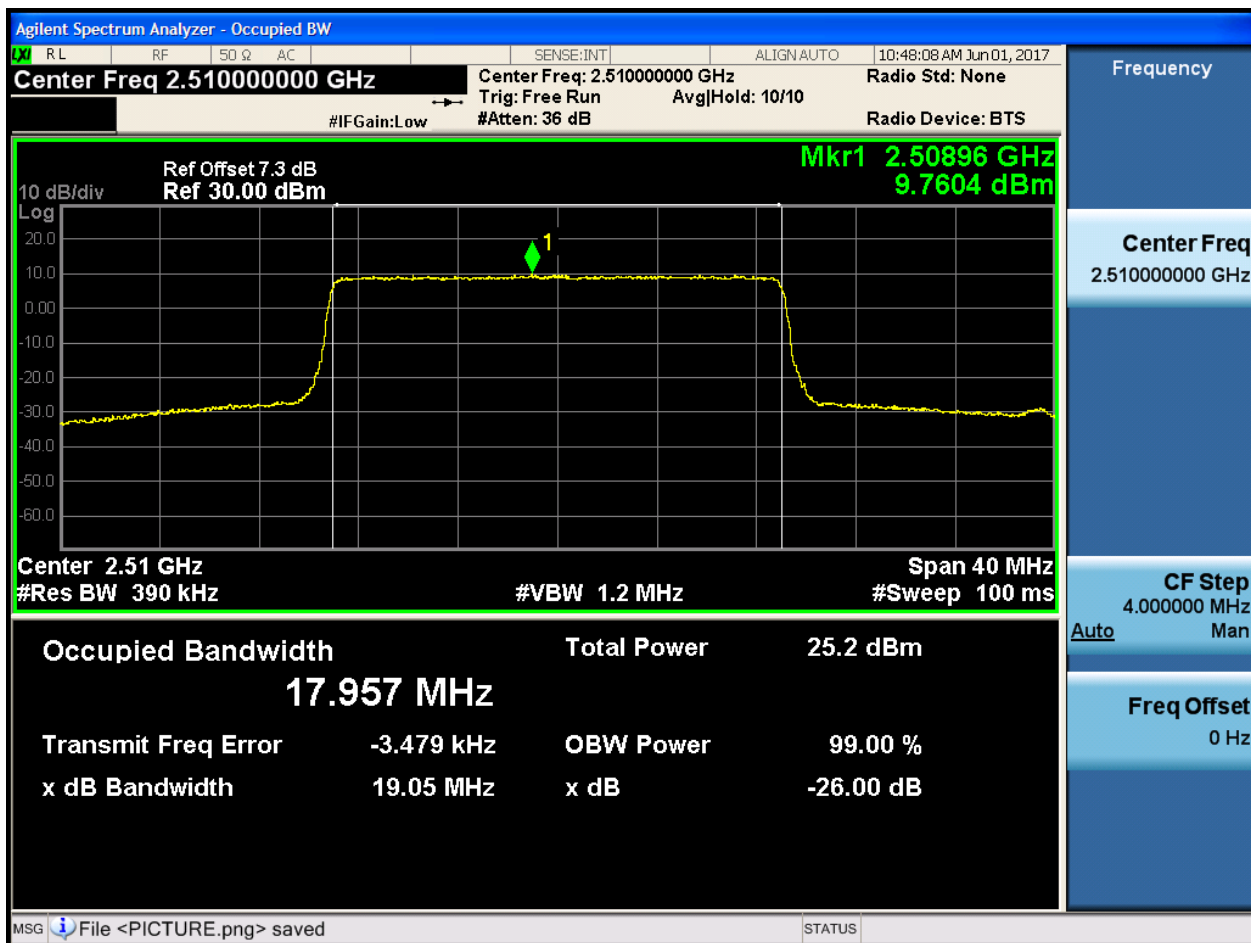
4.1.1.1.3.3.1 Test RB = RB75#0



4.1.1.1.4 Test Bandwidth = 20

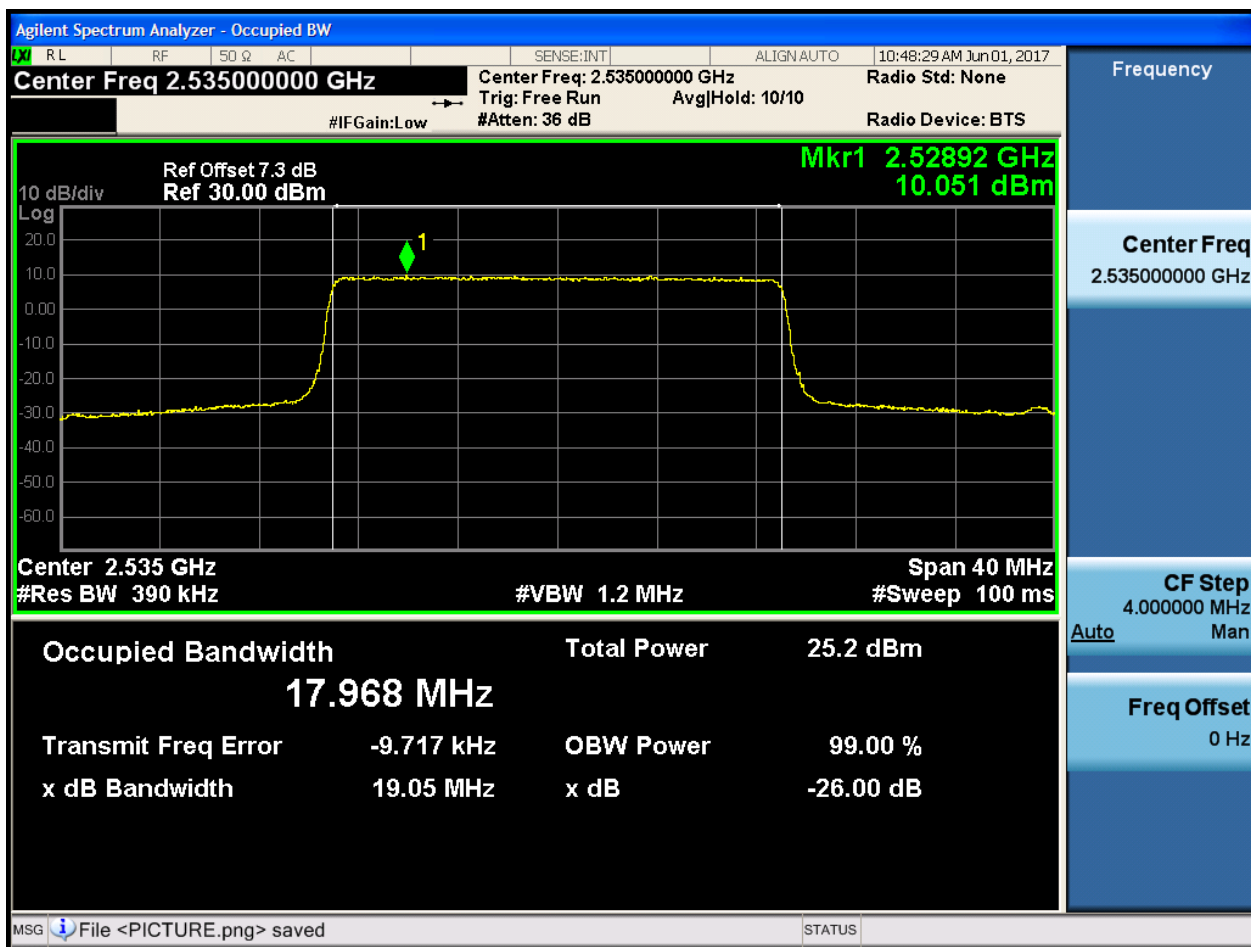
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



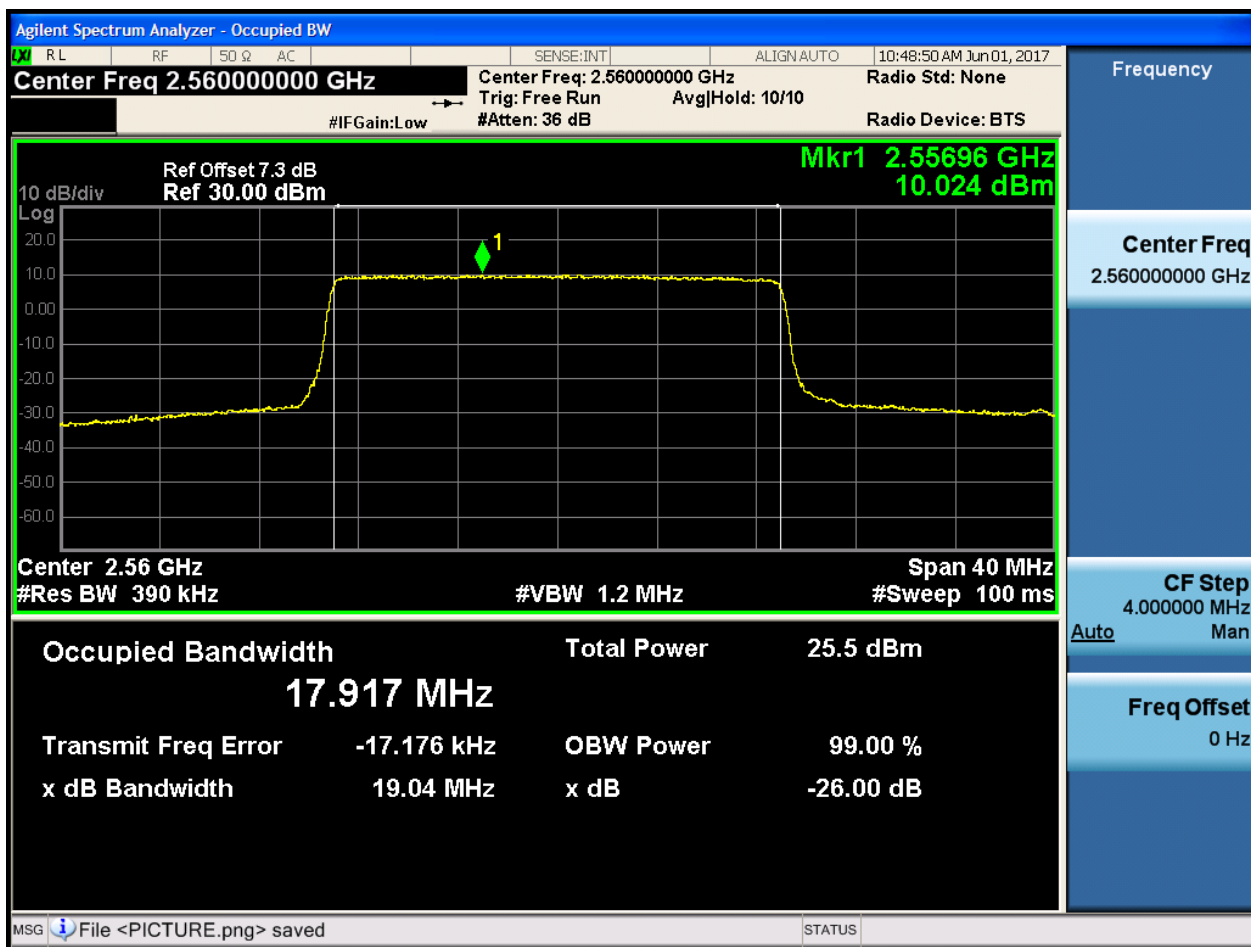
4.1.1.1.4.2 Test Channel = MCH

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

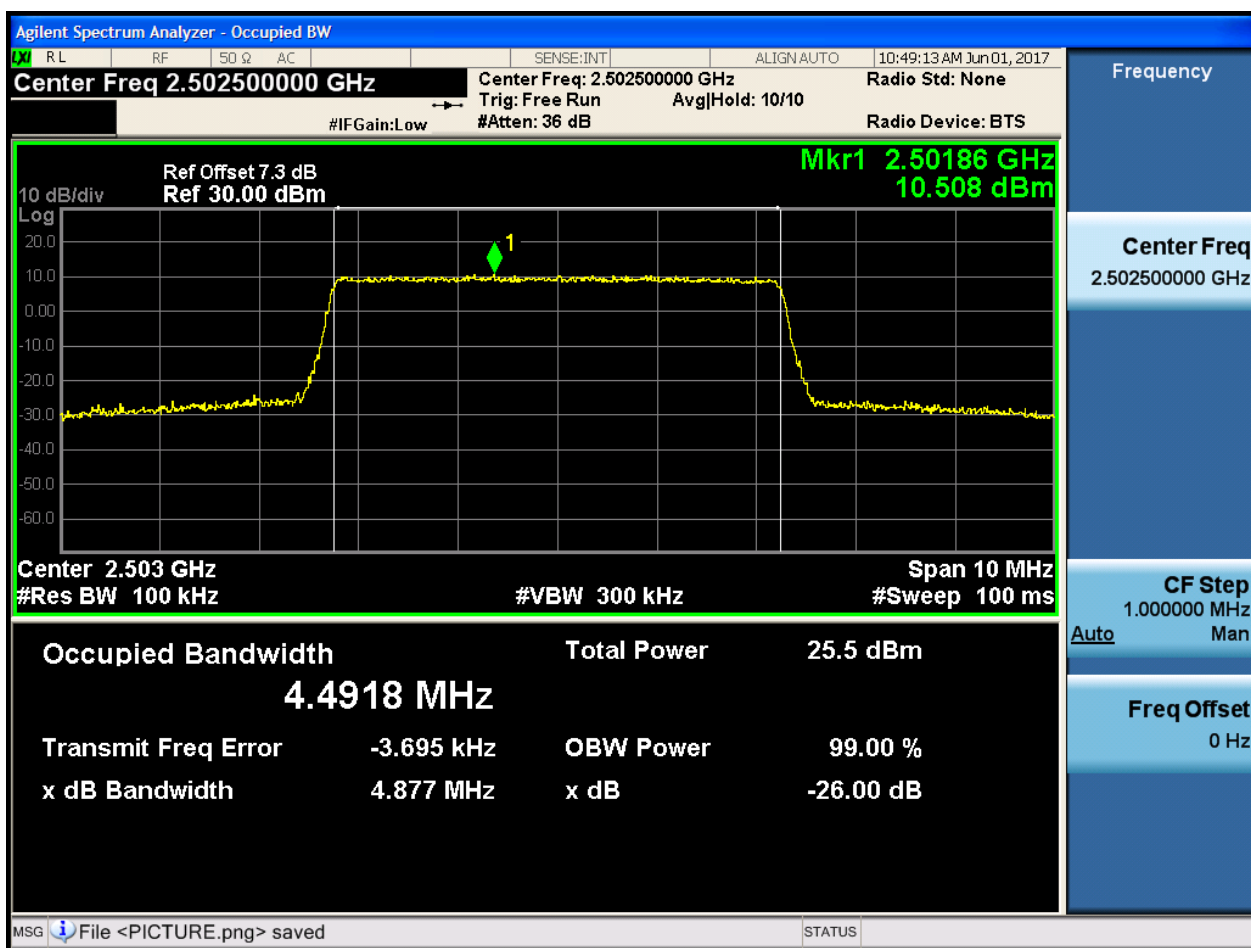


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

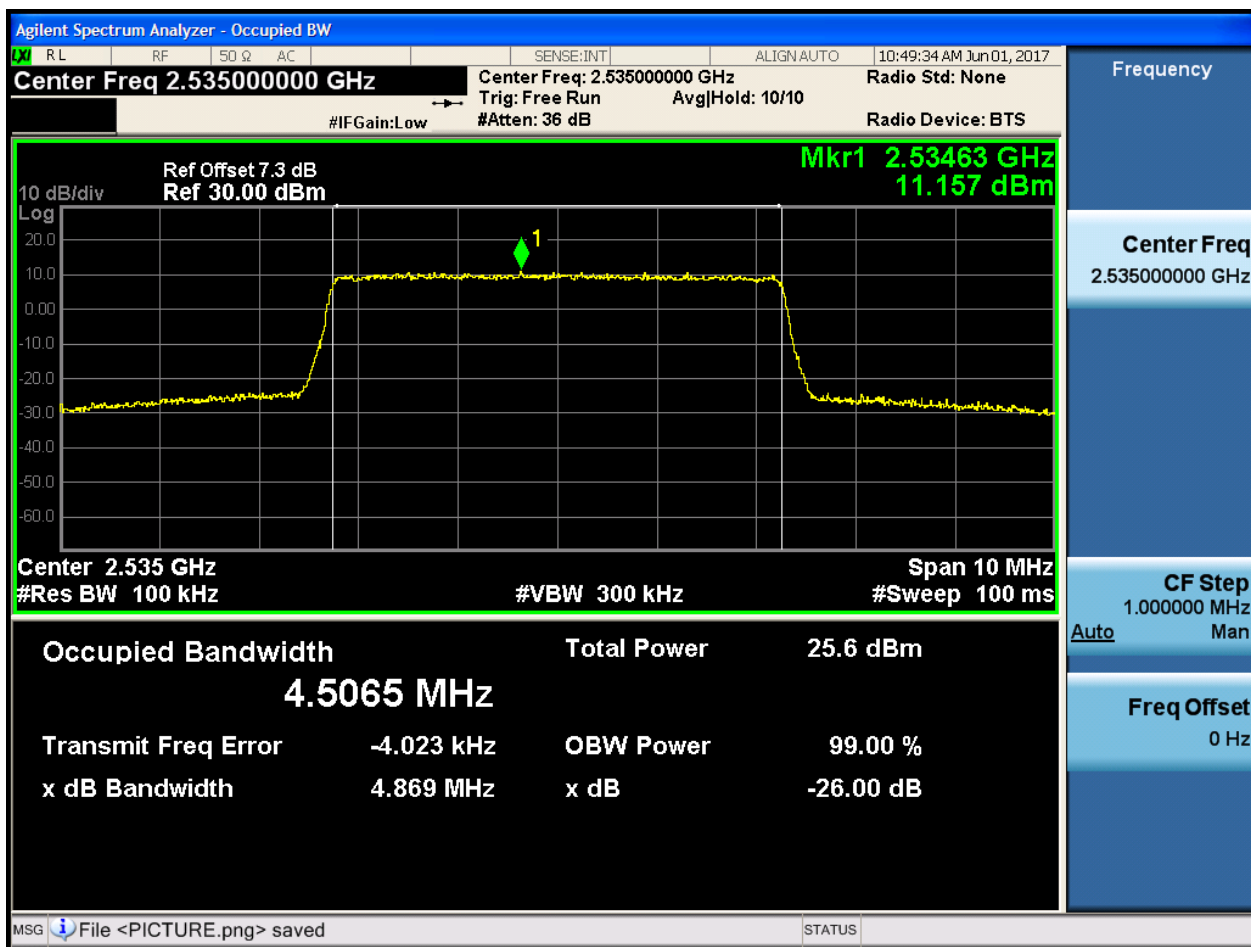
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



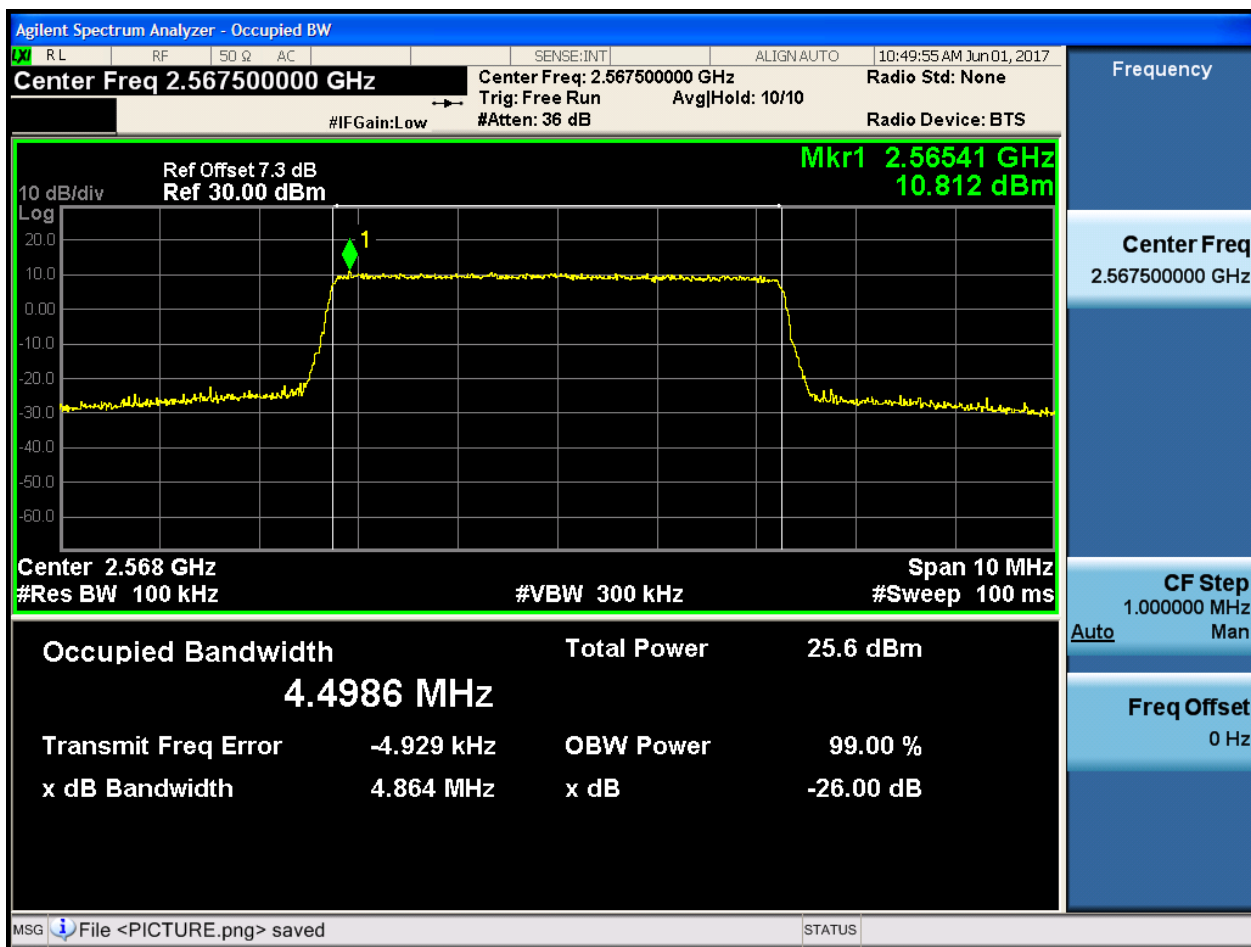
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB25#0



4.1.1.2.1.3 Test Channel = HCH

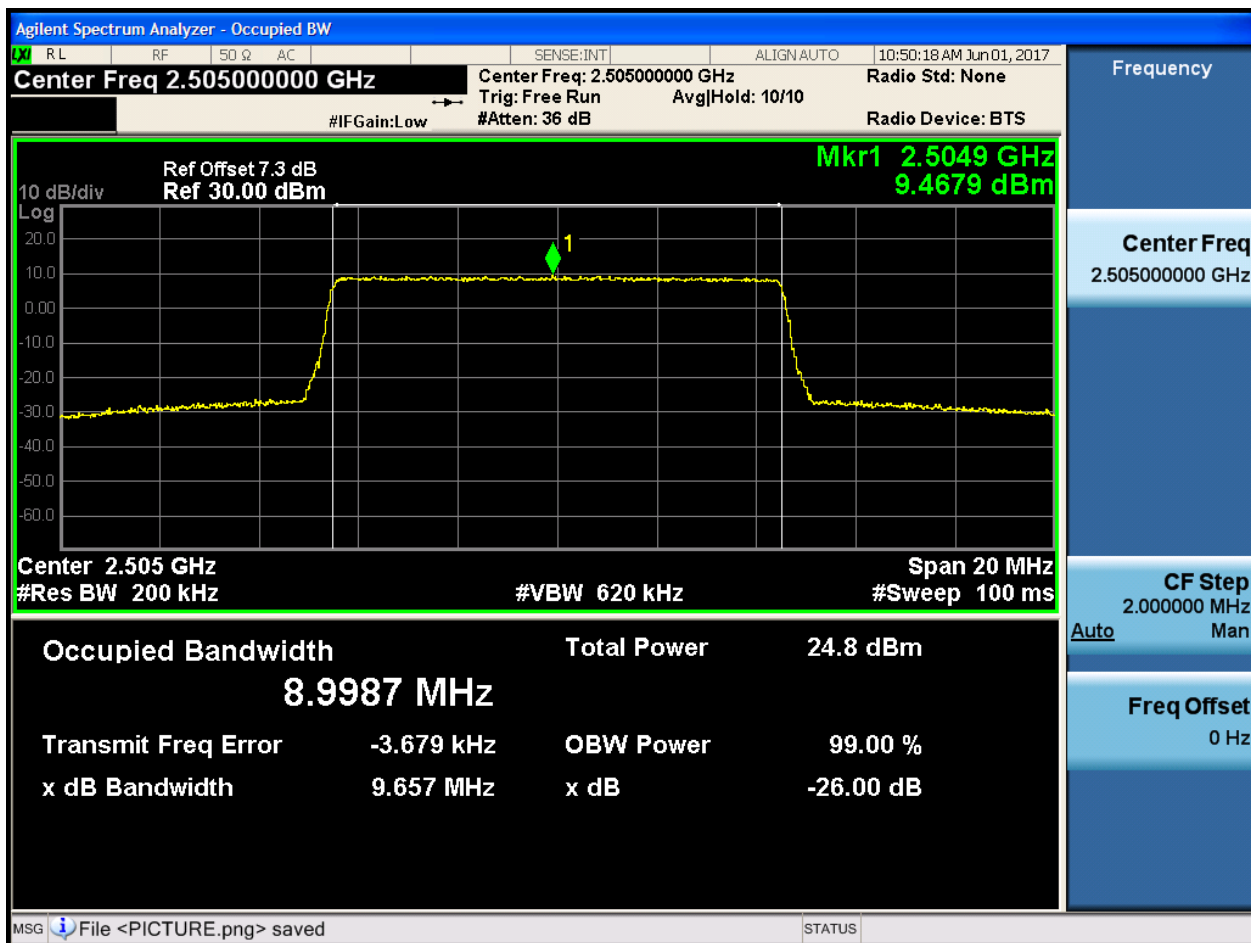
4.1.1.2.1.3.1 Test RB = RB25#0



4.1.1.2.2 Test Bandwidth = 10

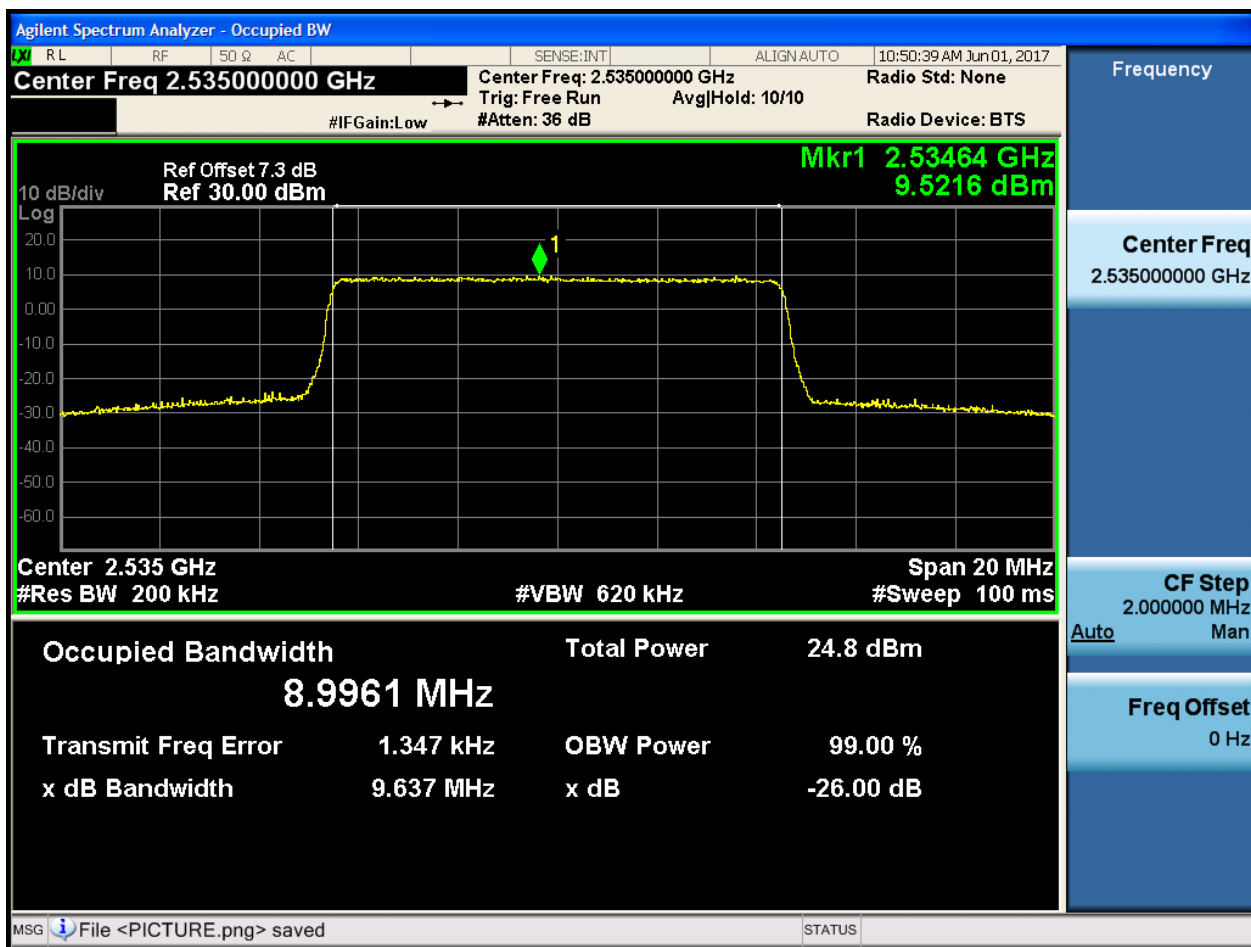
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB50#0



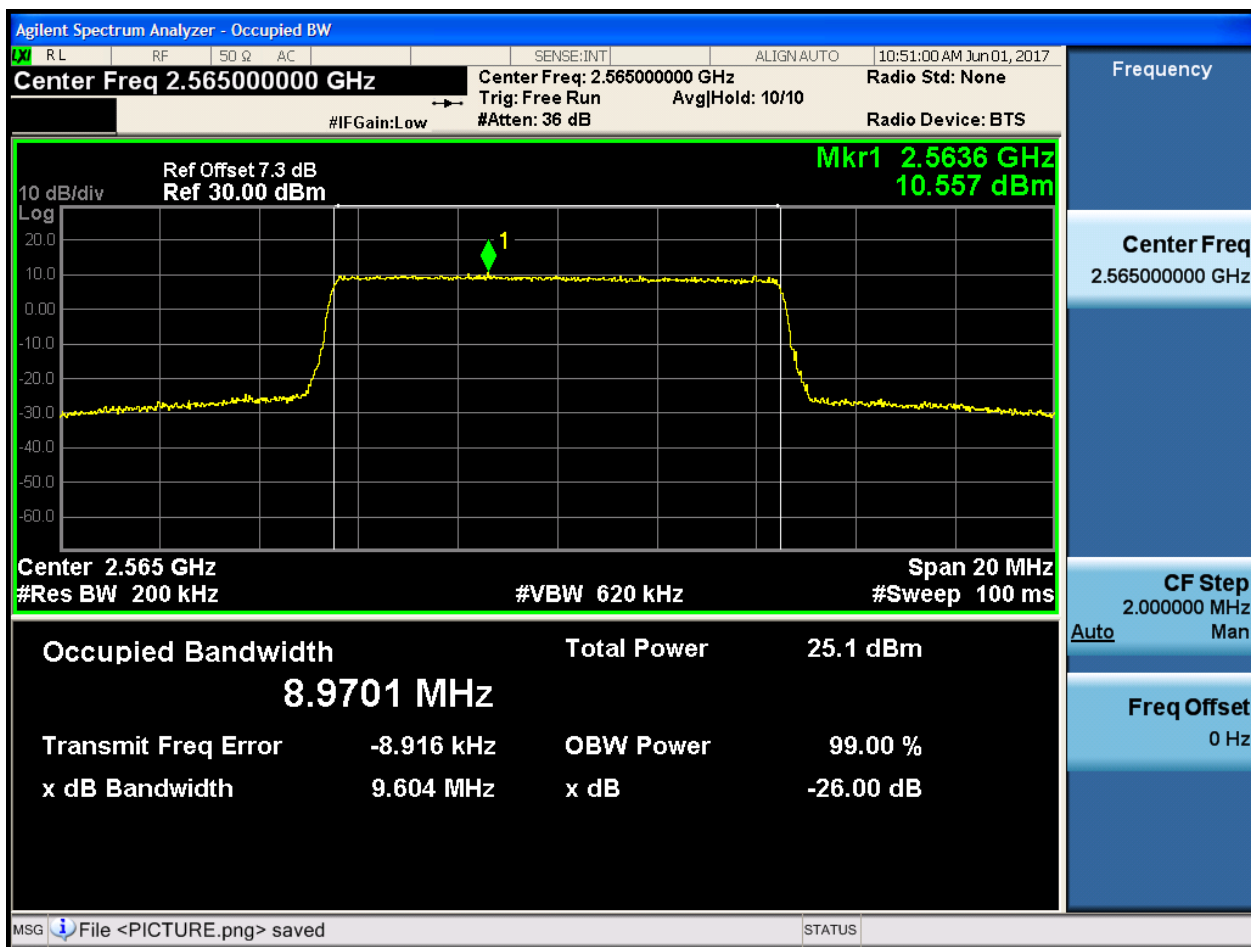
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0



4.1.1.2.2.3 Test Channel = HCH

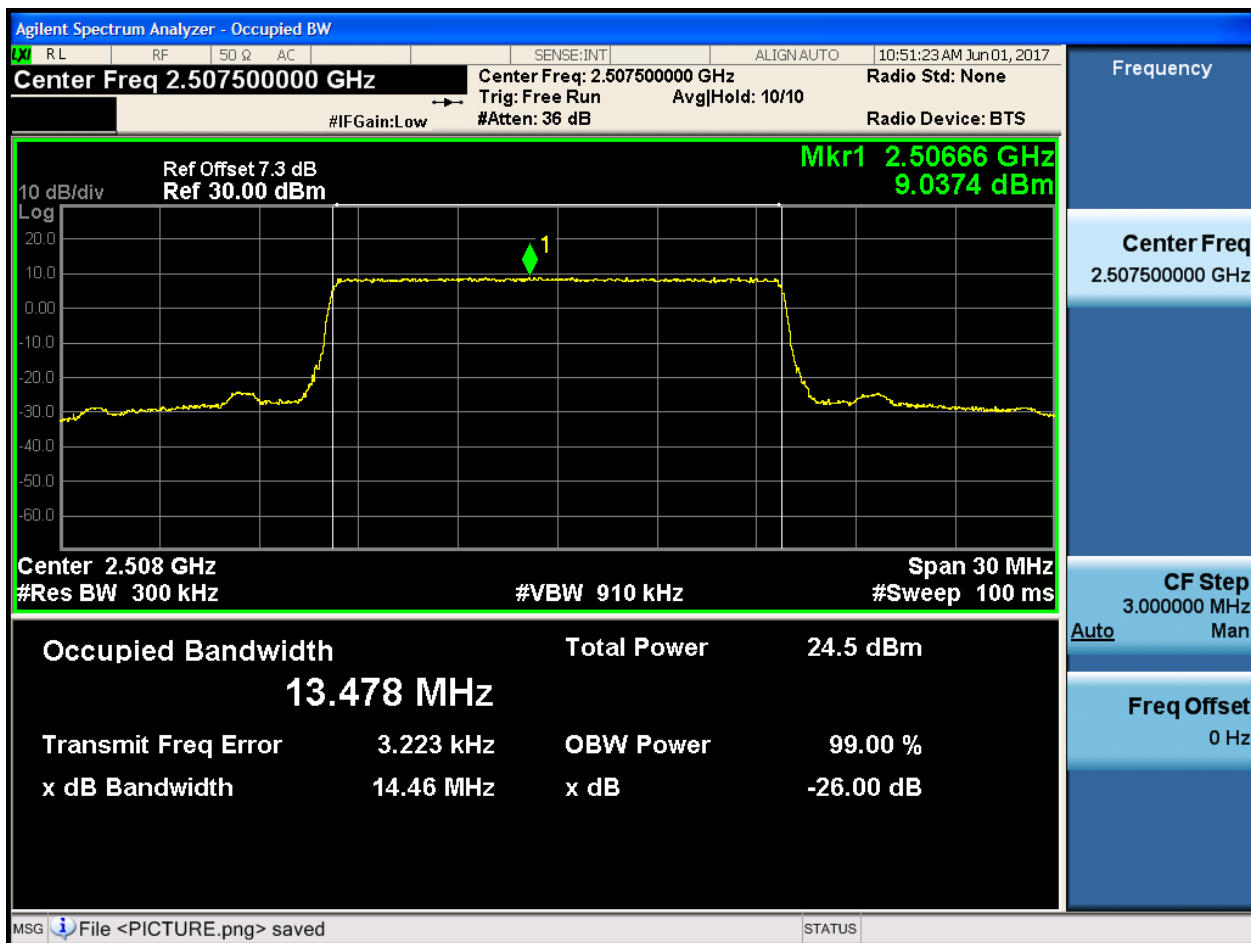
4.1.1.2.2.3.1 Test RB = RB50#0



4.1.1.2.3 Test Bandwidth = 15

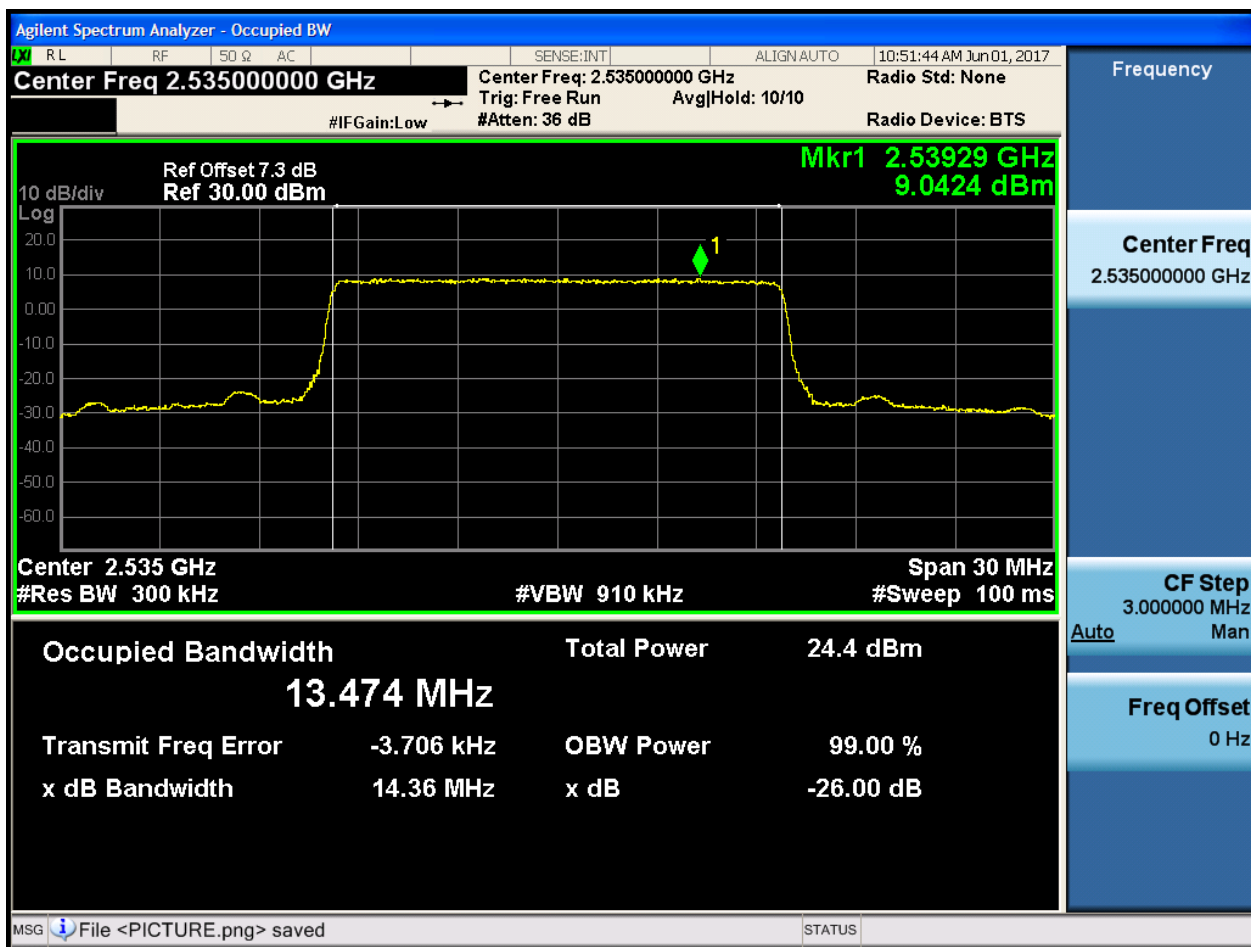
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



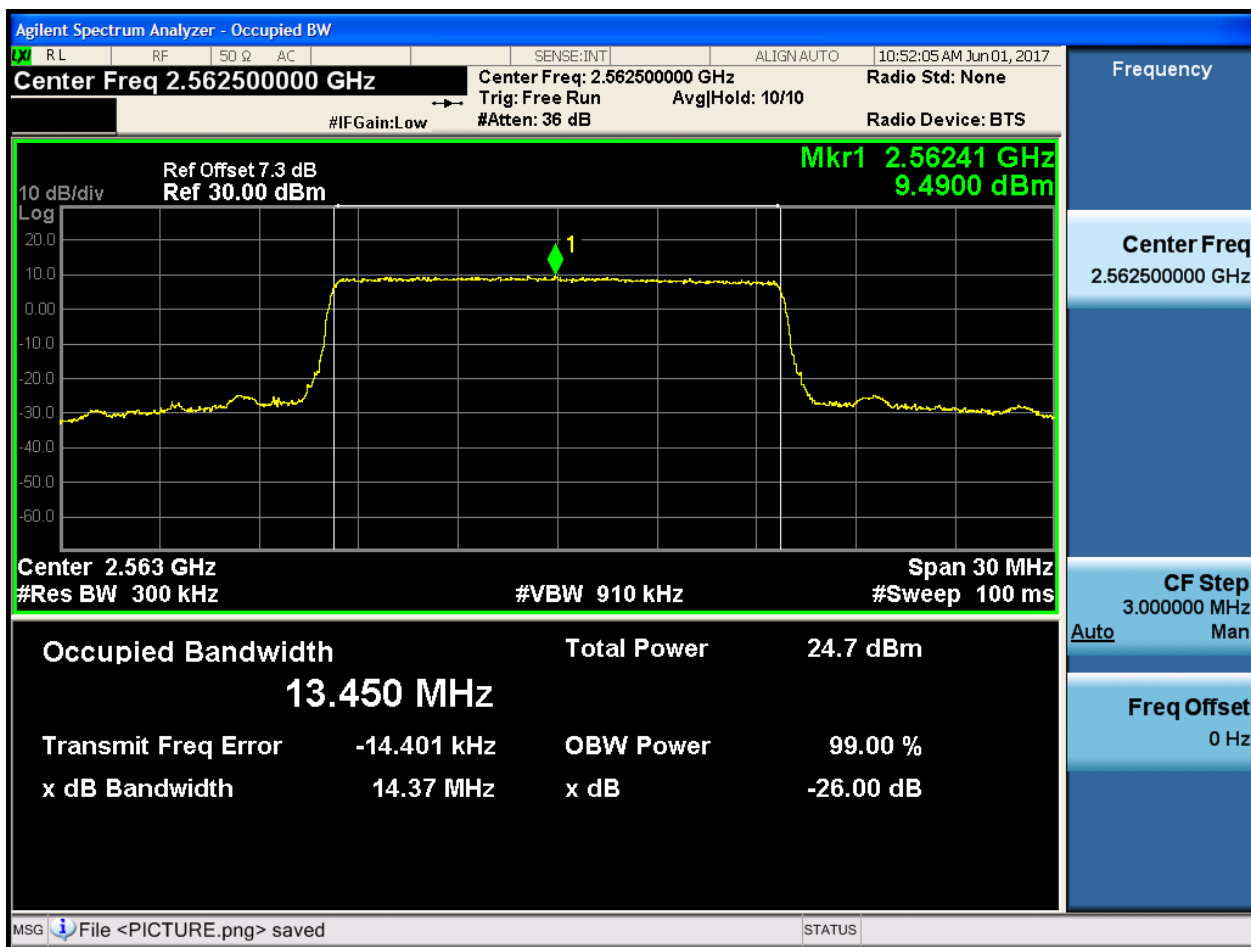
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB75#0



4.1.1.2.3.3 Test Channel = HCH

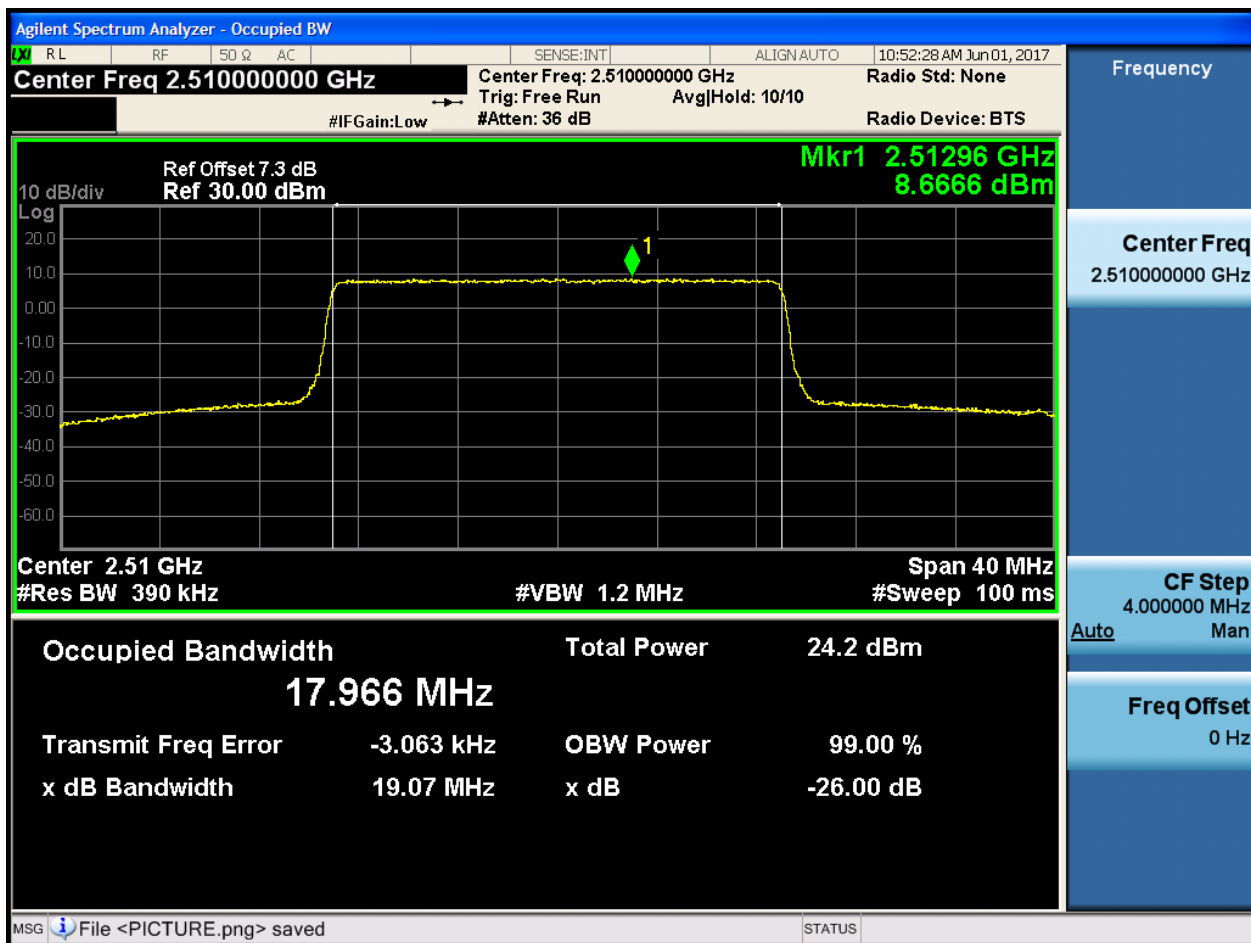
4.1.1.2.3.3.1 Test RB = RB75#0



4.1.1.2.4 Test Bandwidth = 20

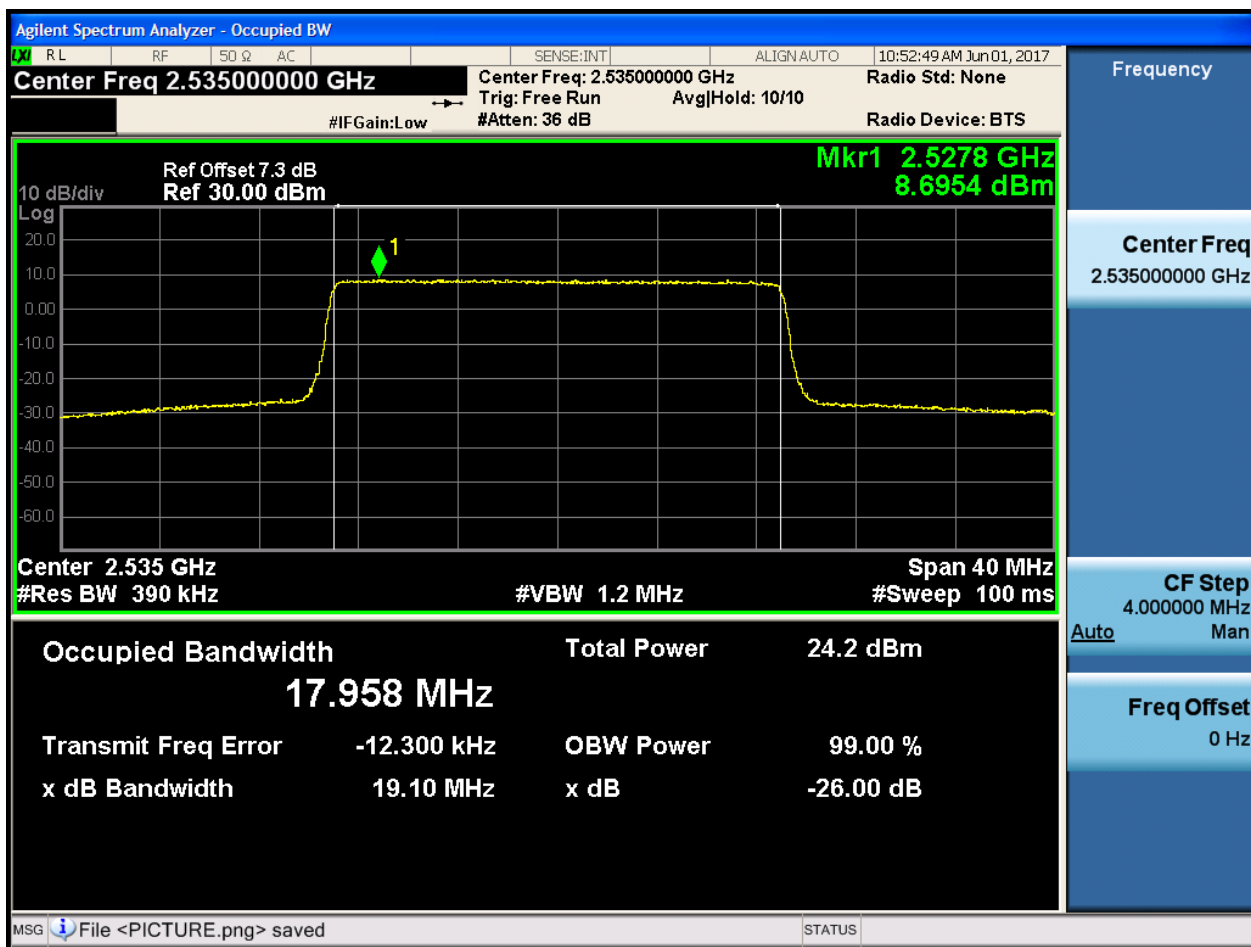
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



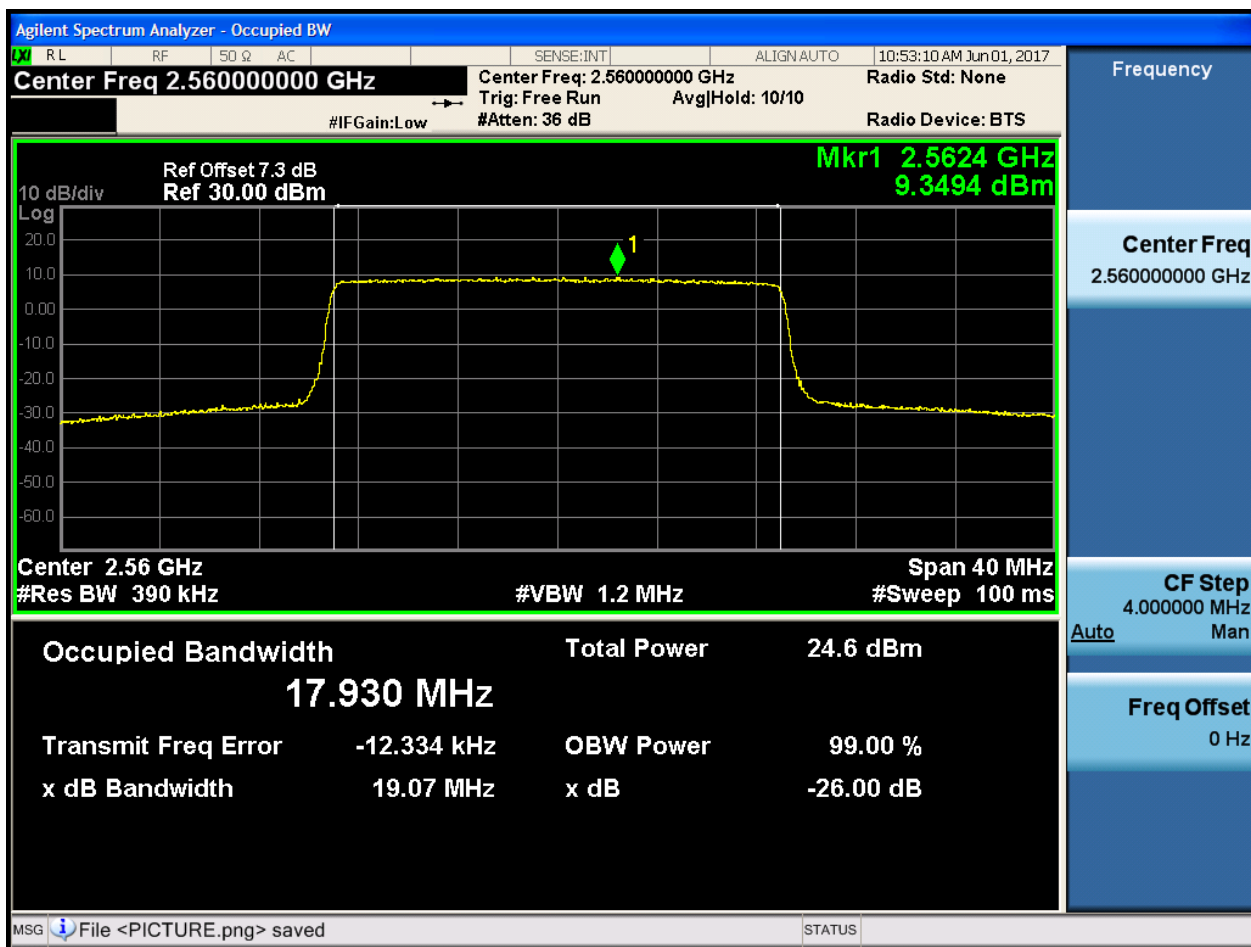
4.1.1.2.4.2 Test Channel = MCH

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

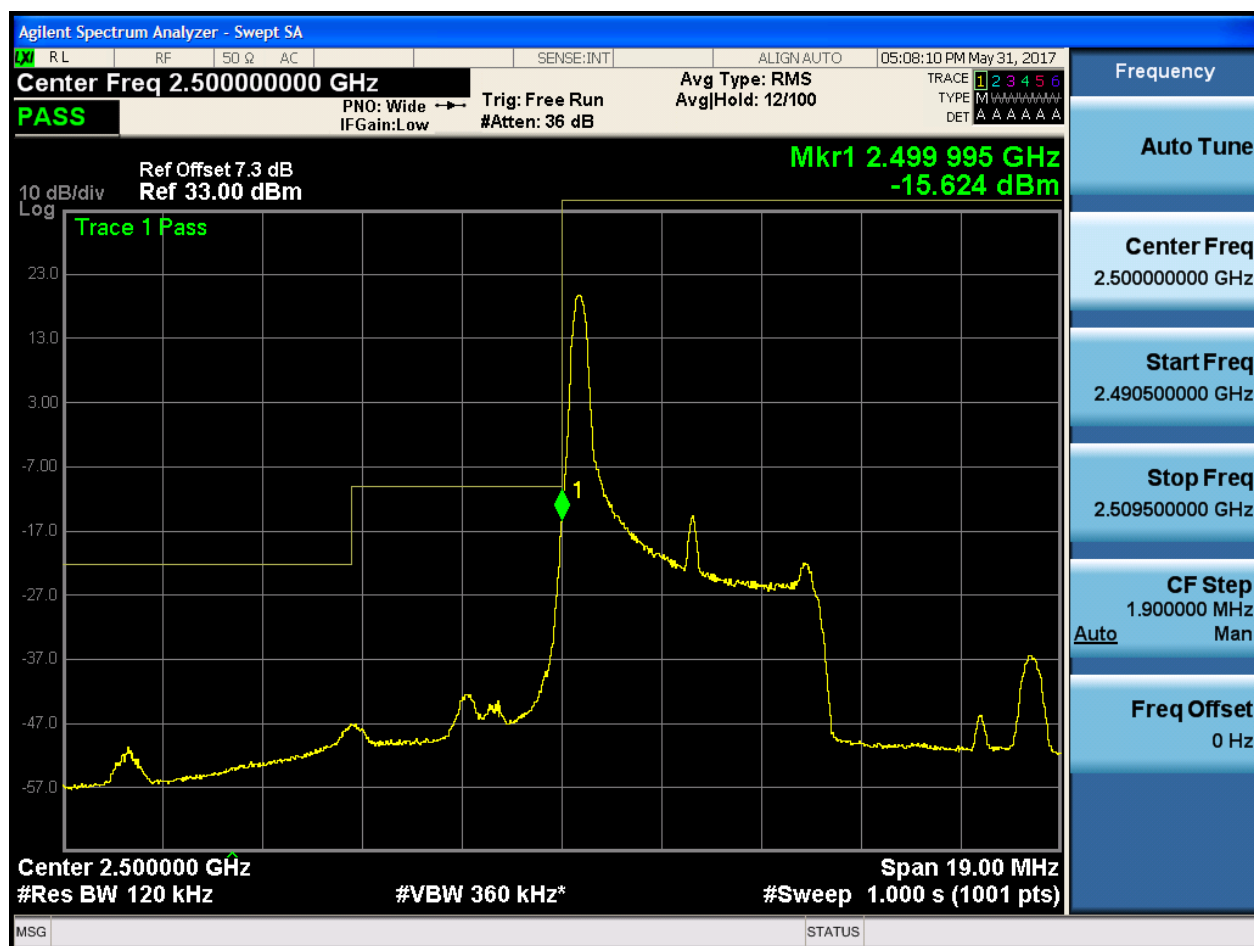
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

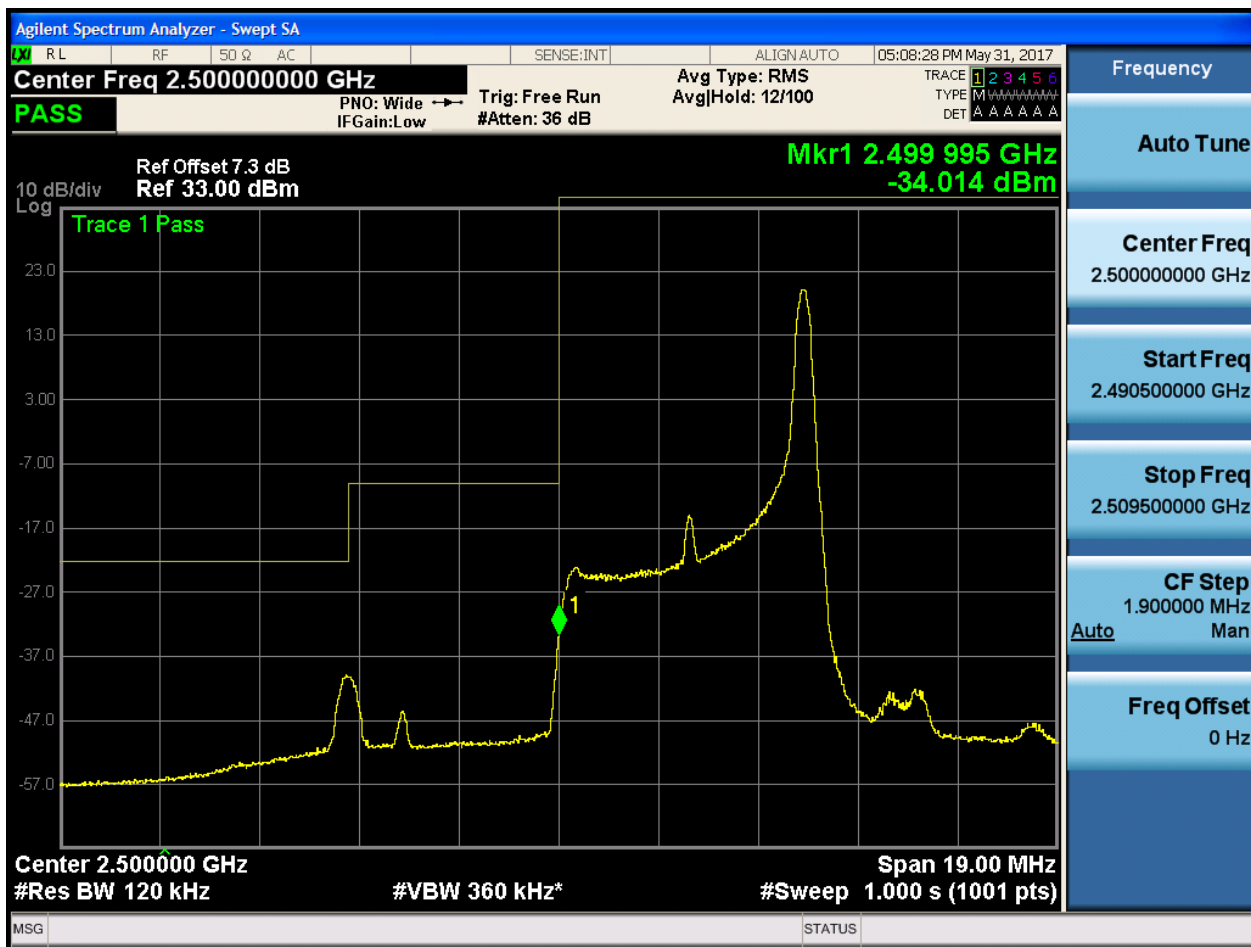
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





5.1.1.1.1.2 Test RB = RB1#24



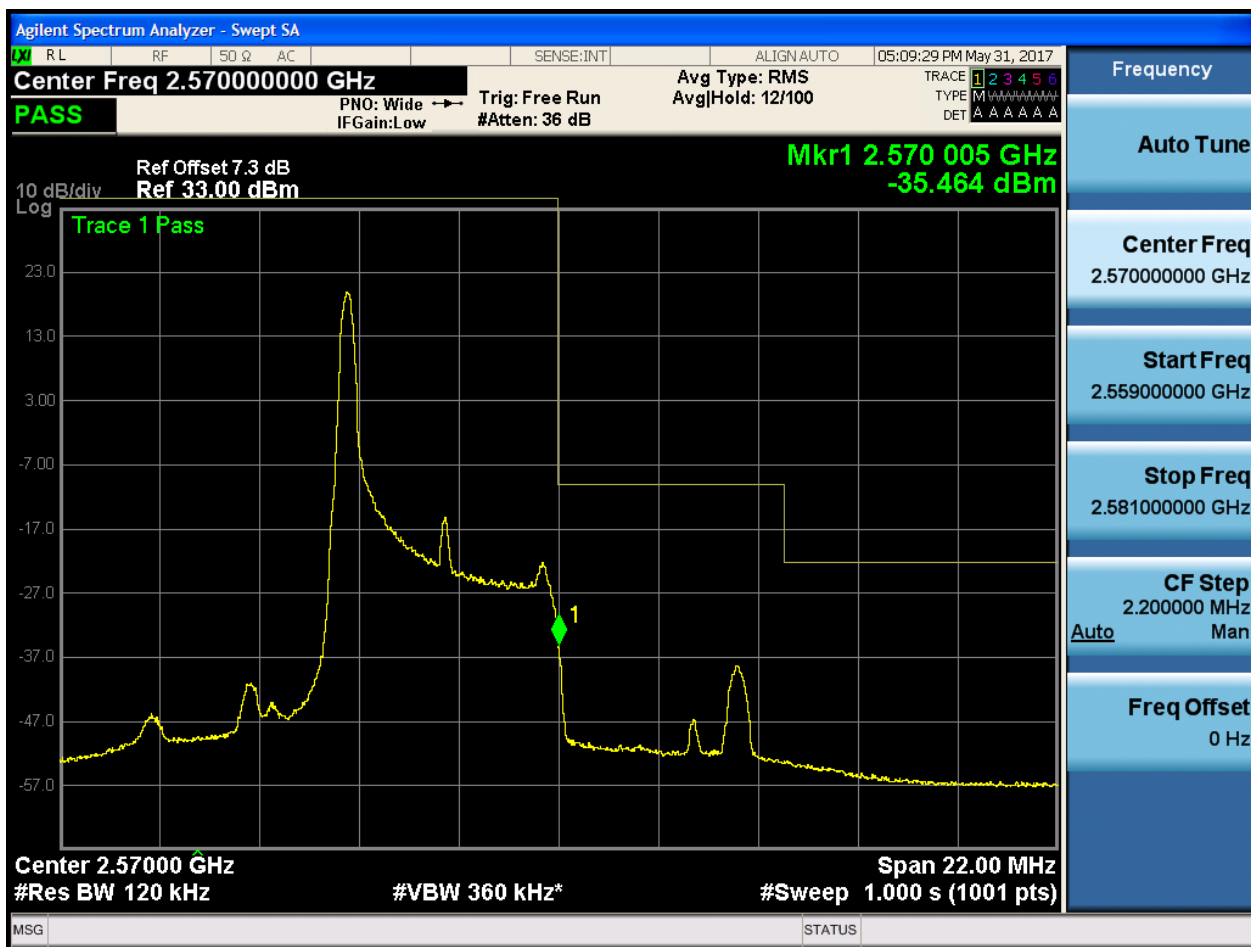


5.1.1.1.1.4 Test RB = RB25#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



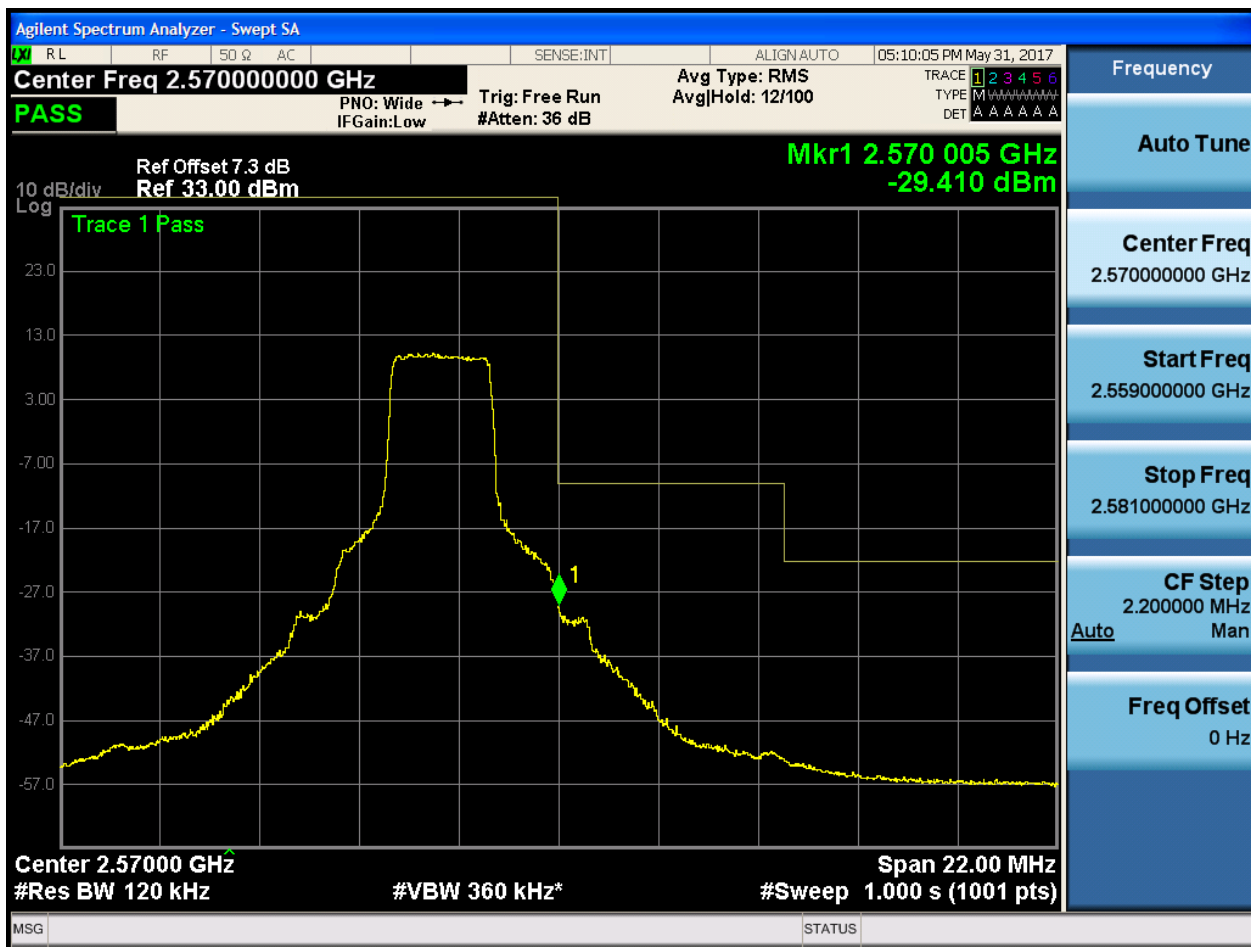


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





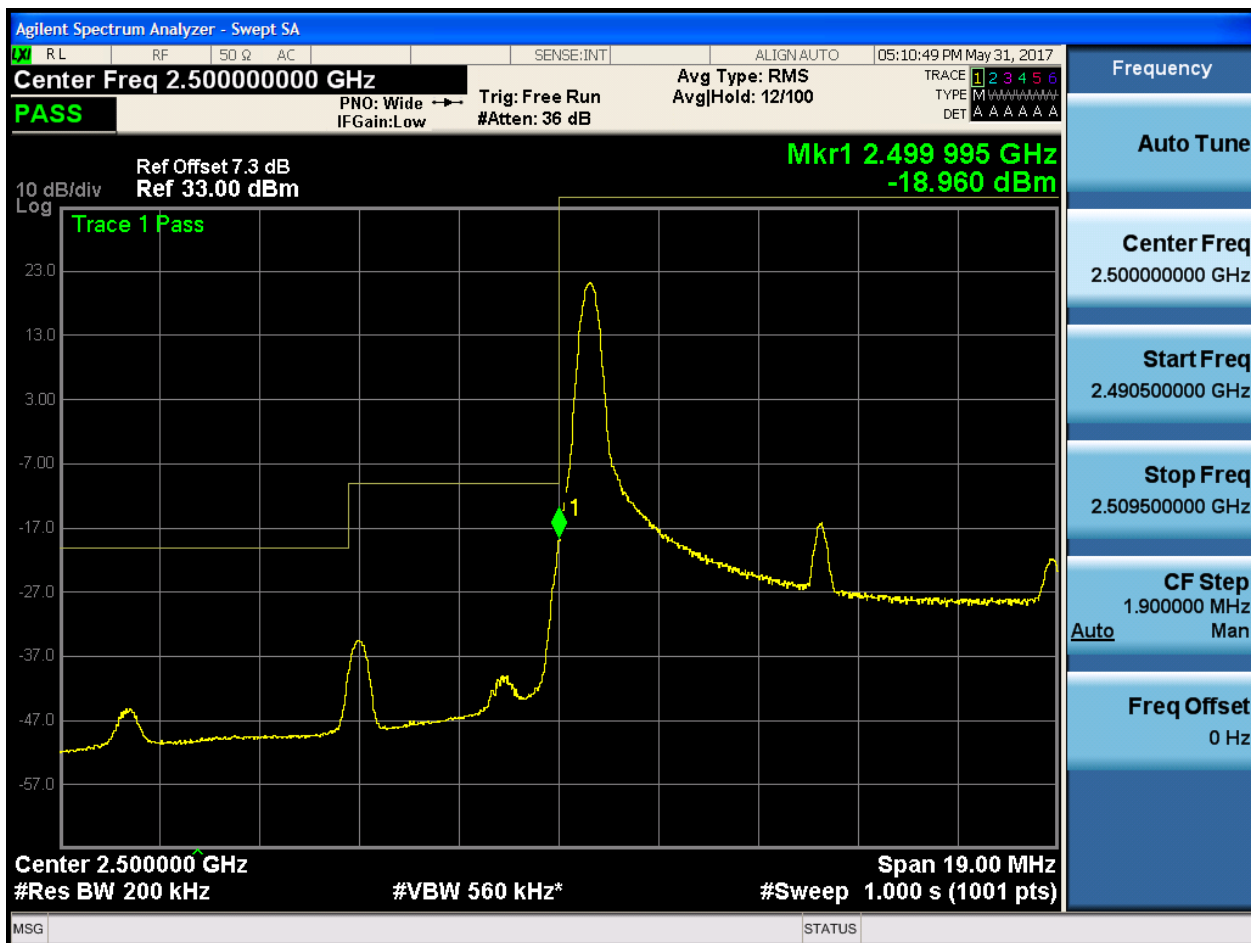
5.1.1.1.2.4 Test RB = RB25#0



5.1.1.1.2 Test Bandwidth = 10

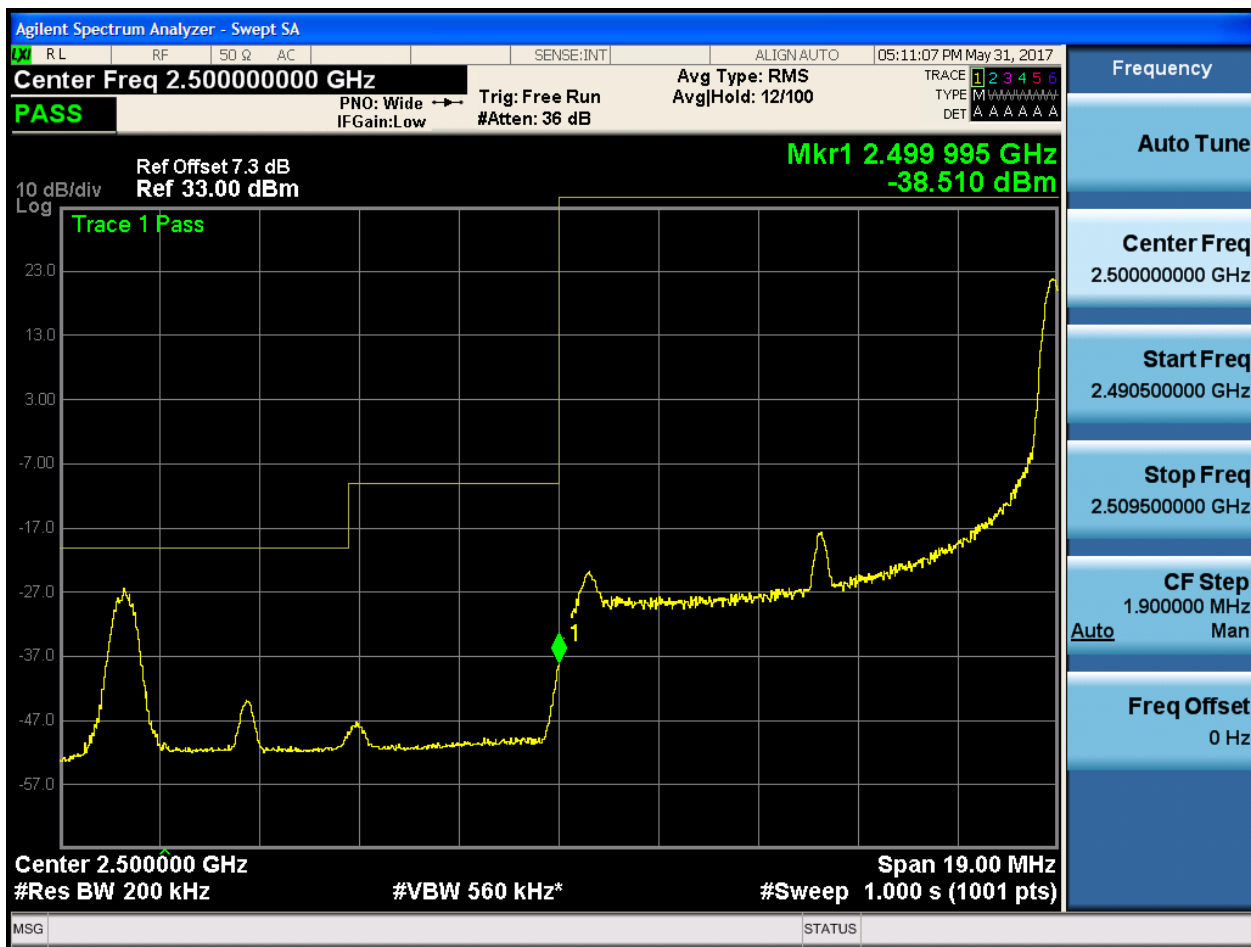
5.1.1.1.2.1 Test Channel = LCH

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:11:44 PM May 31, 2017

Center Freq 2.500000000 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
DET A A A A A A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-28.647 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 560 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

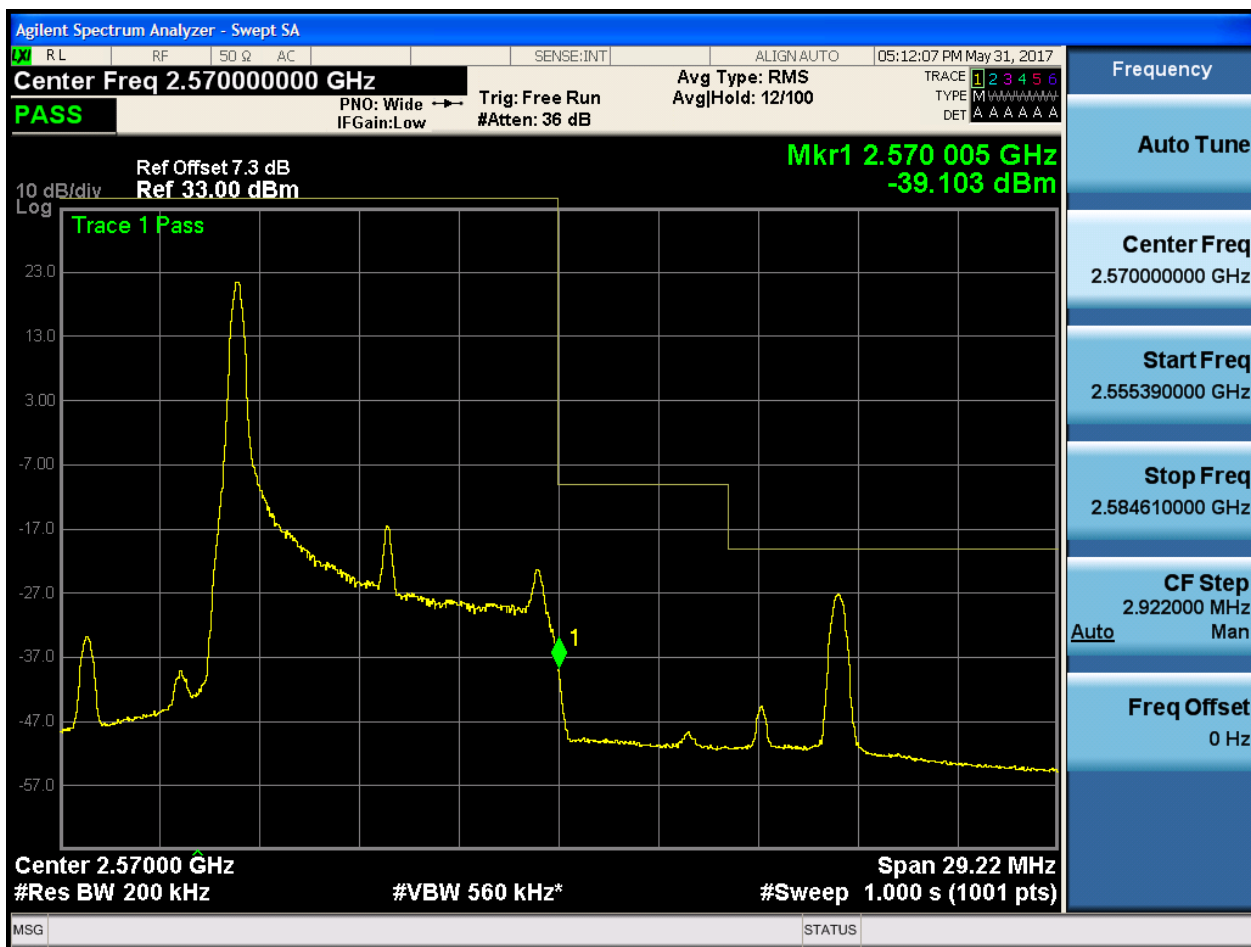
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

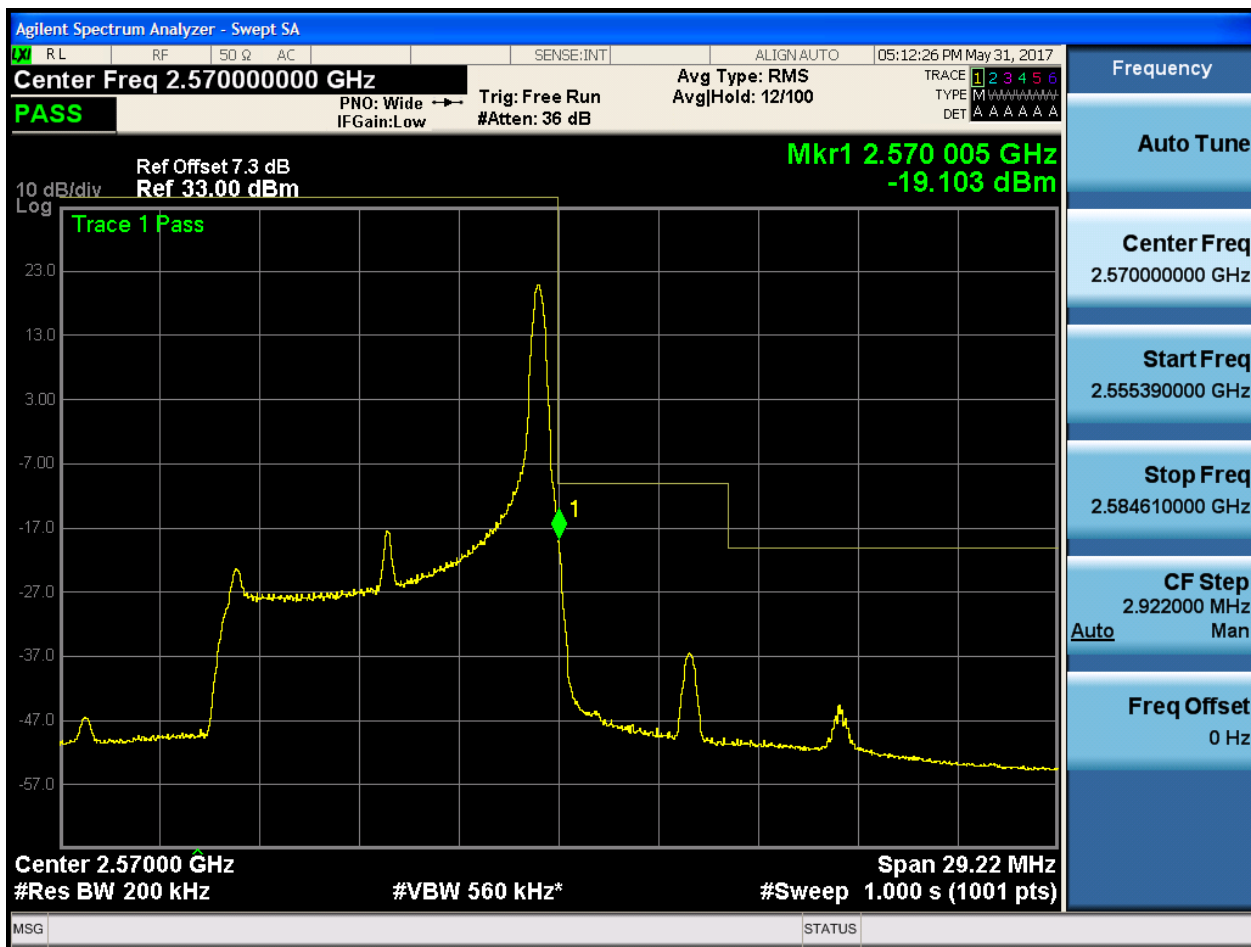
5.1.1.1.2.2 Test Channel = HCH

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





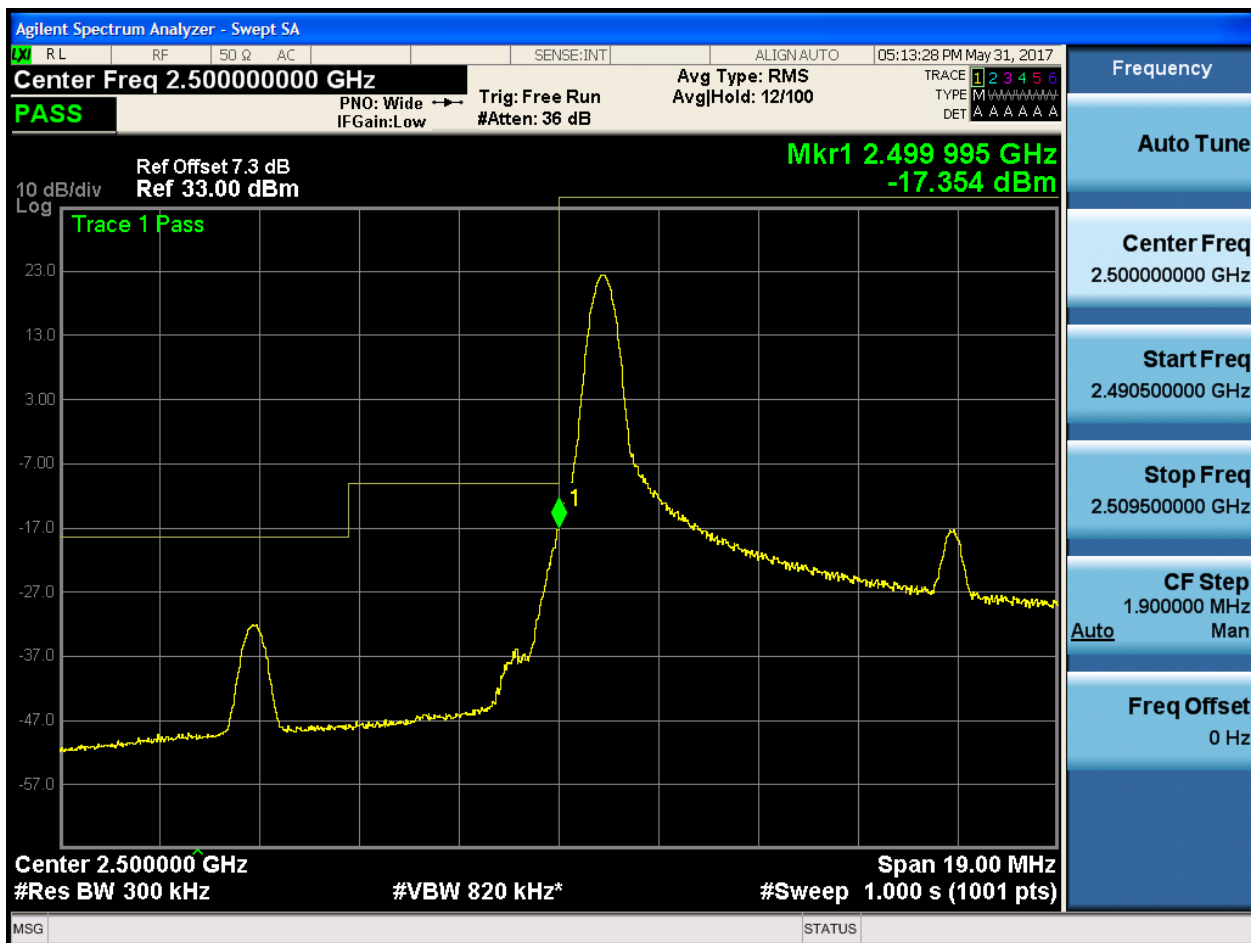
5.1.1.1.2.2.4 Test RB = RB50#0



5.1.1.1.3 Test Bandwidth = 15

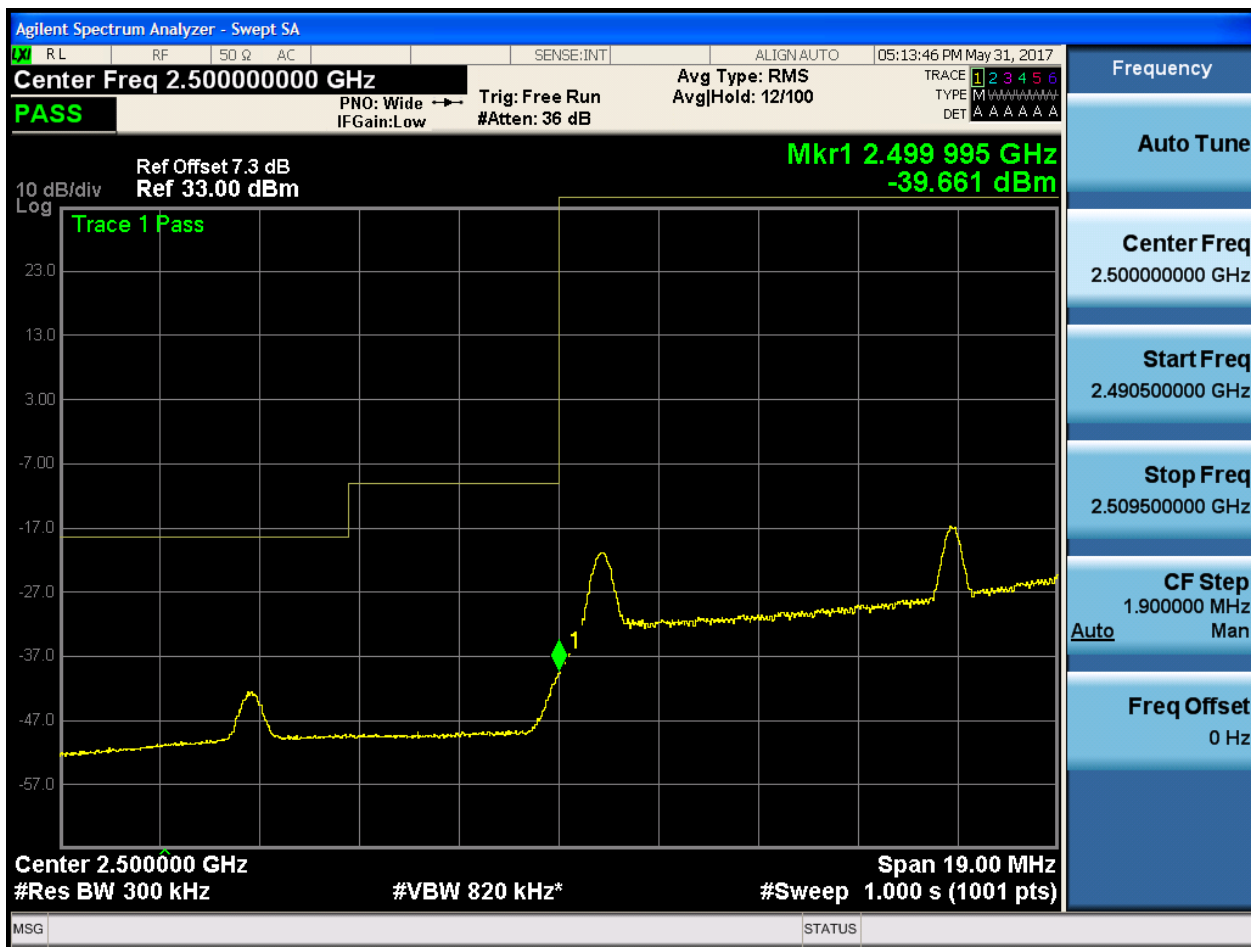
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#74



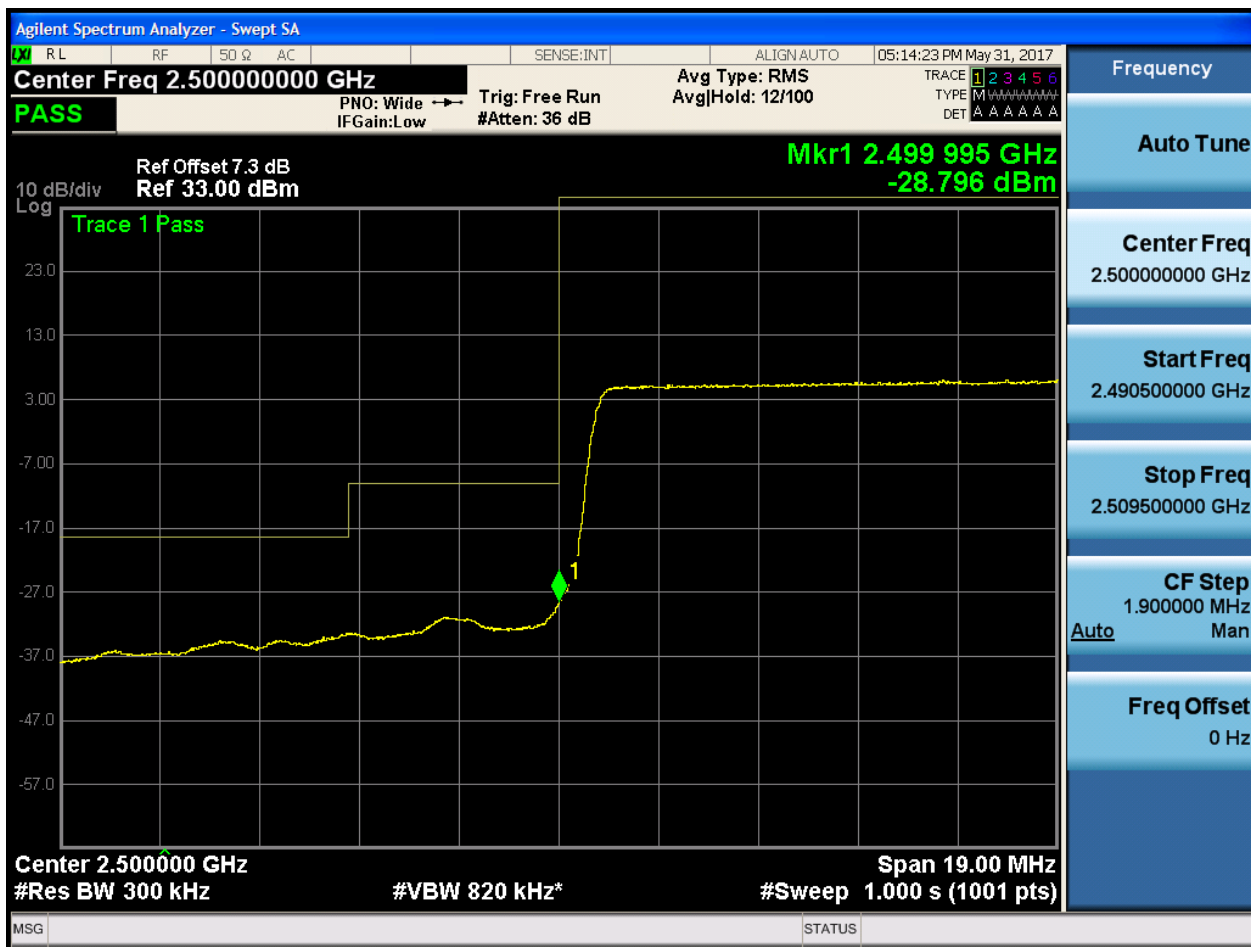


5.1.1.1.3.1.3 Test RB = RB36#18



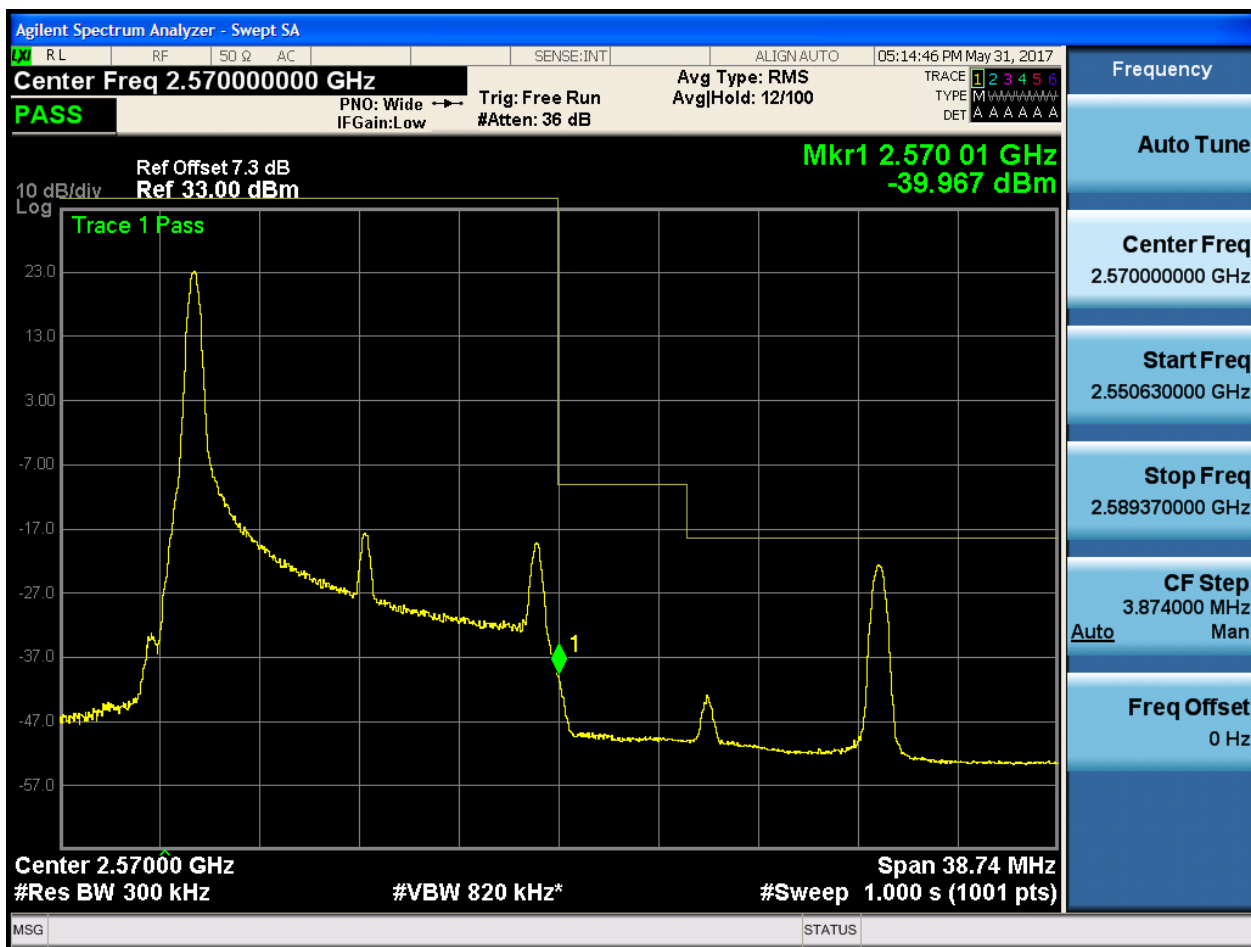


5.1.1.1.3.1.4 Test RB = RB75#0



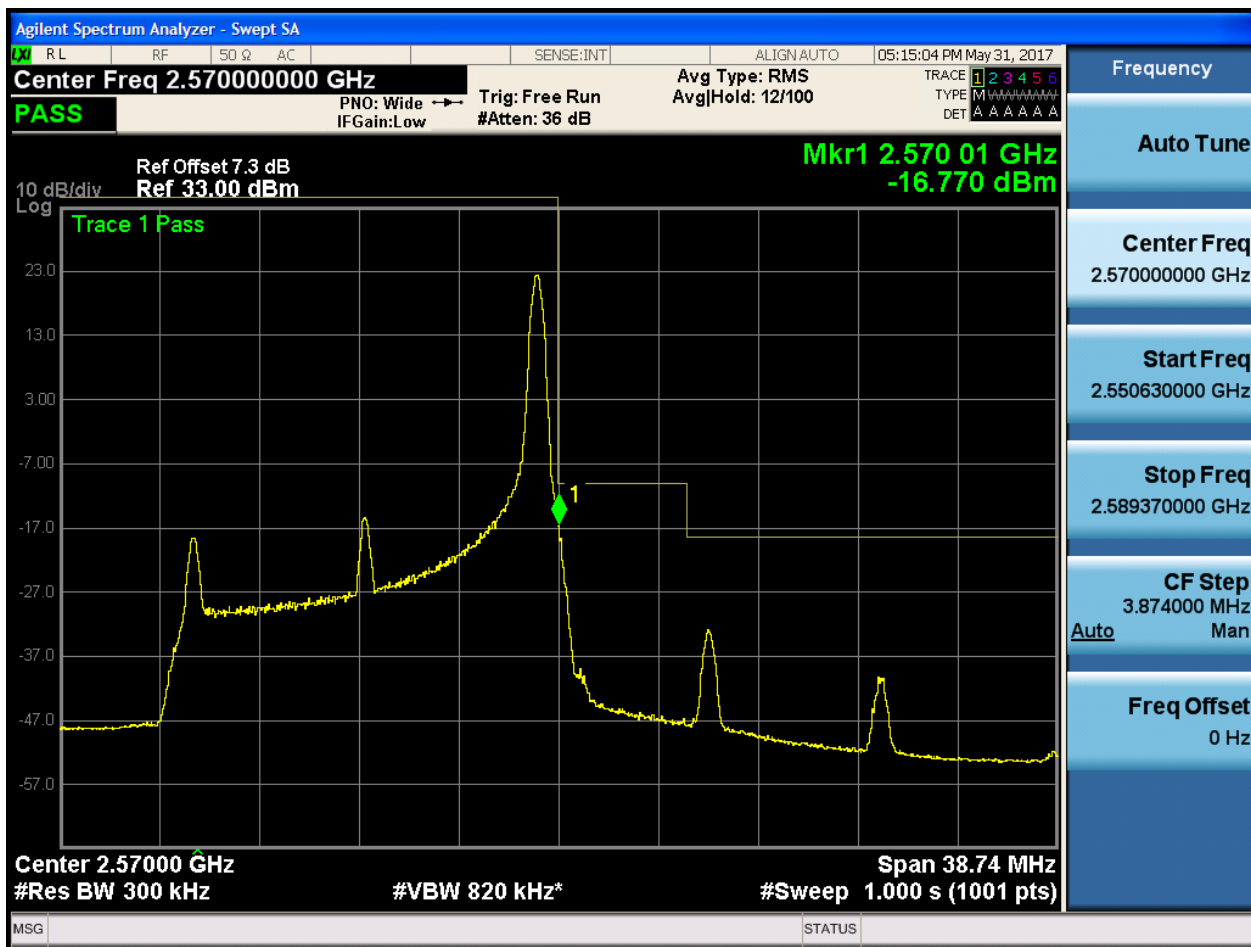
5.1.1.1.3.2 Test Channel = HCH

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



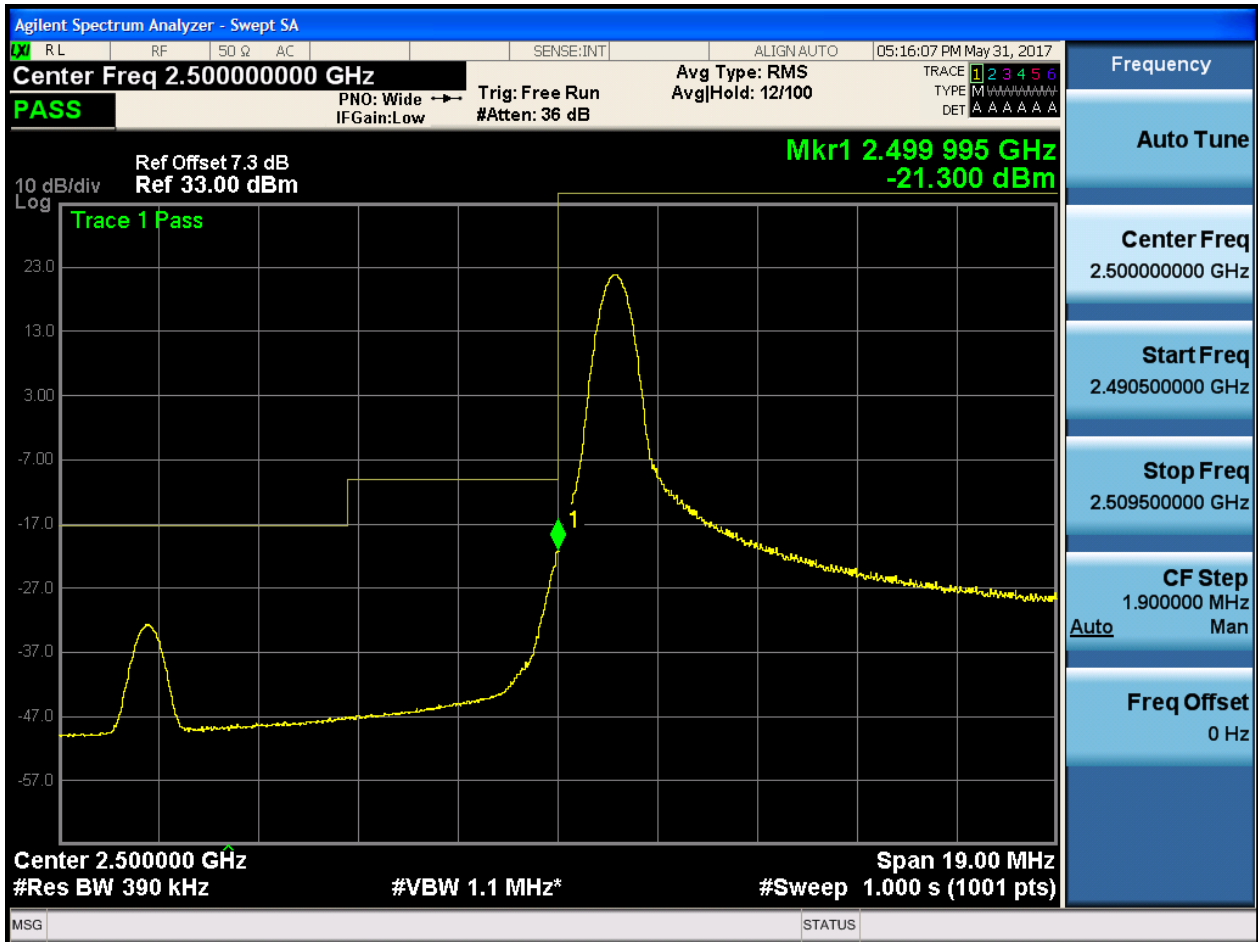


5.1.1.1.3.2.4 Test RB = RB75#0



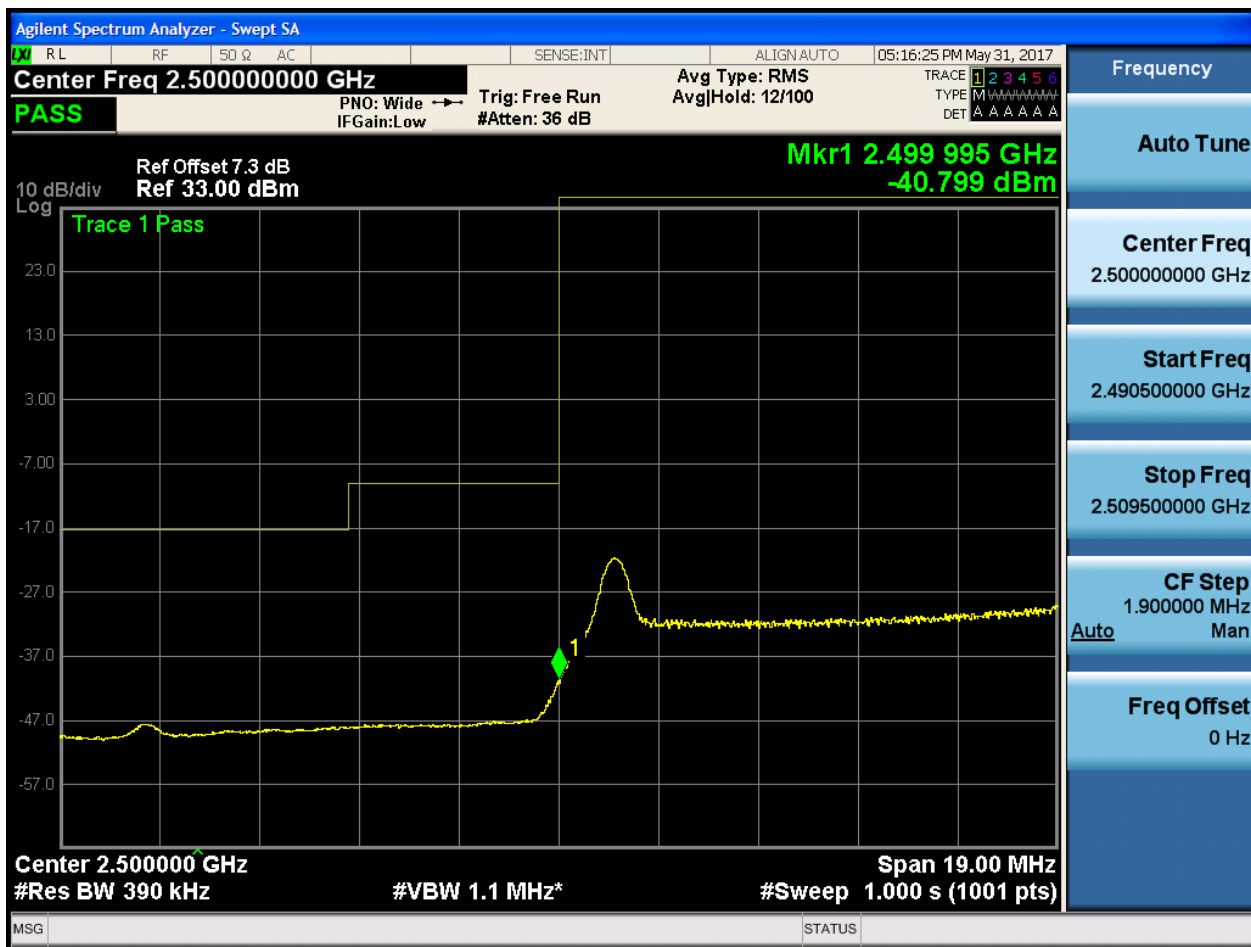


5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99



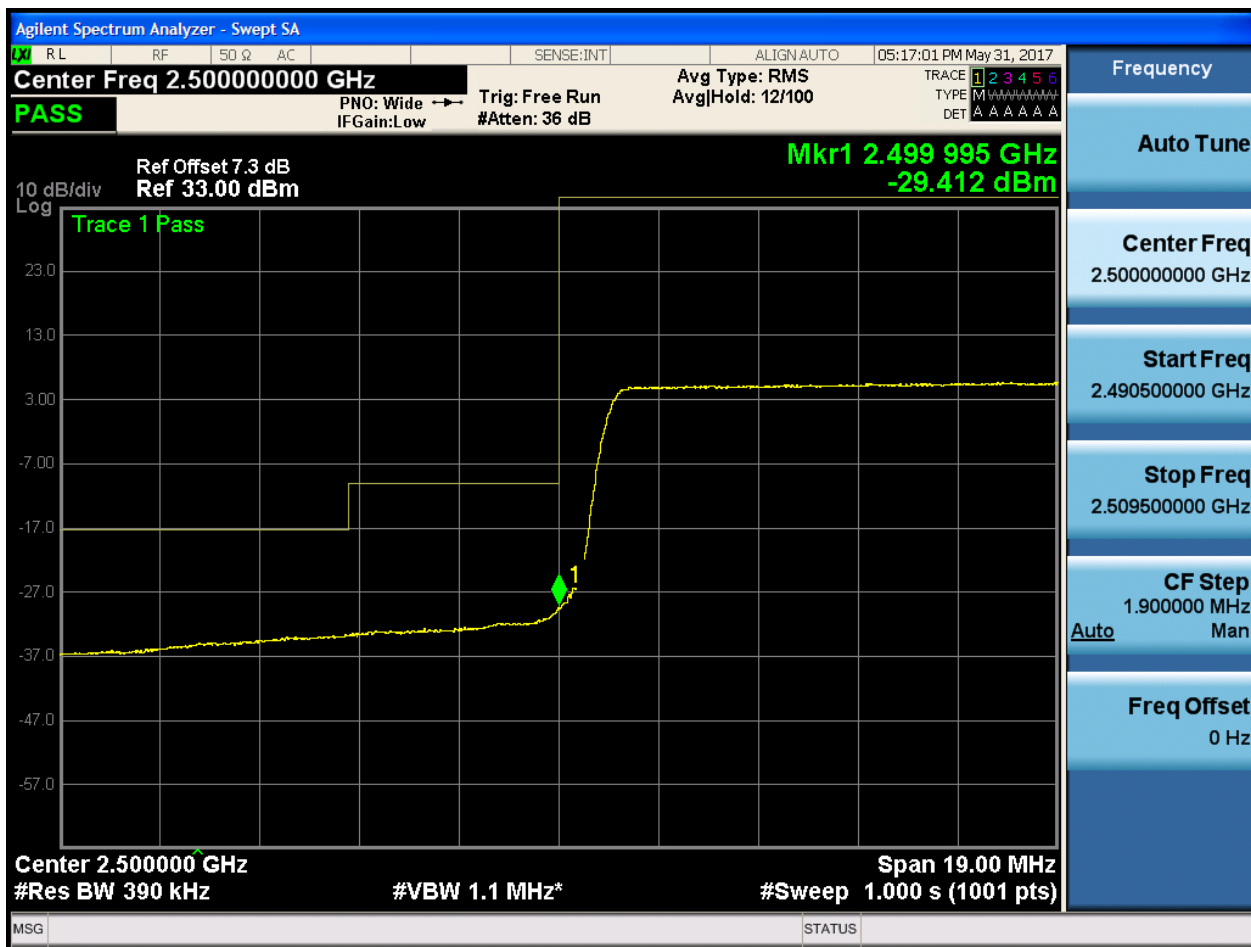


5.1.1.1.4.1.3 Test RB = RB50#25



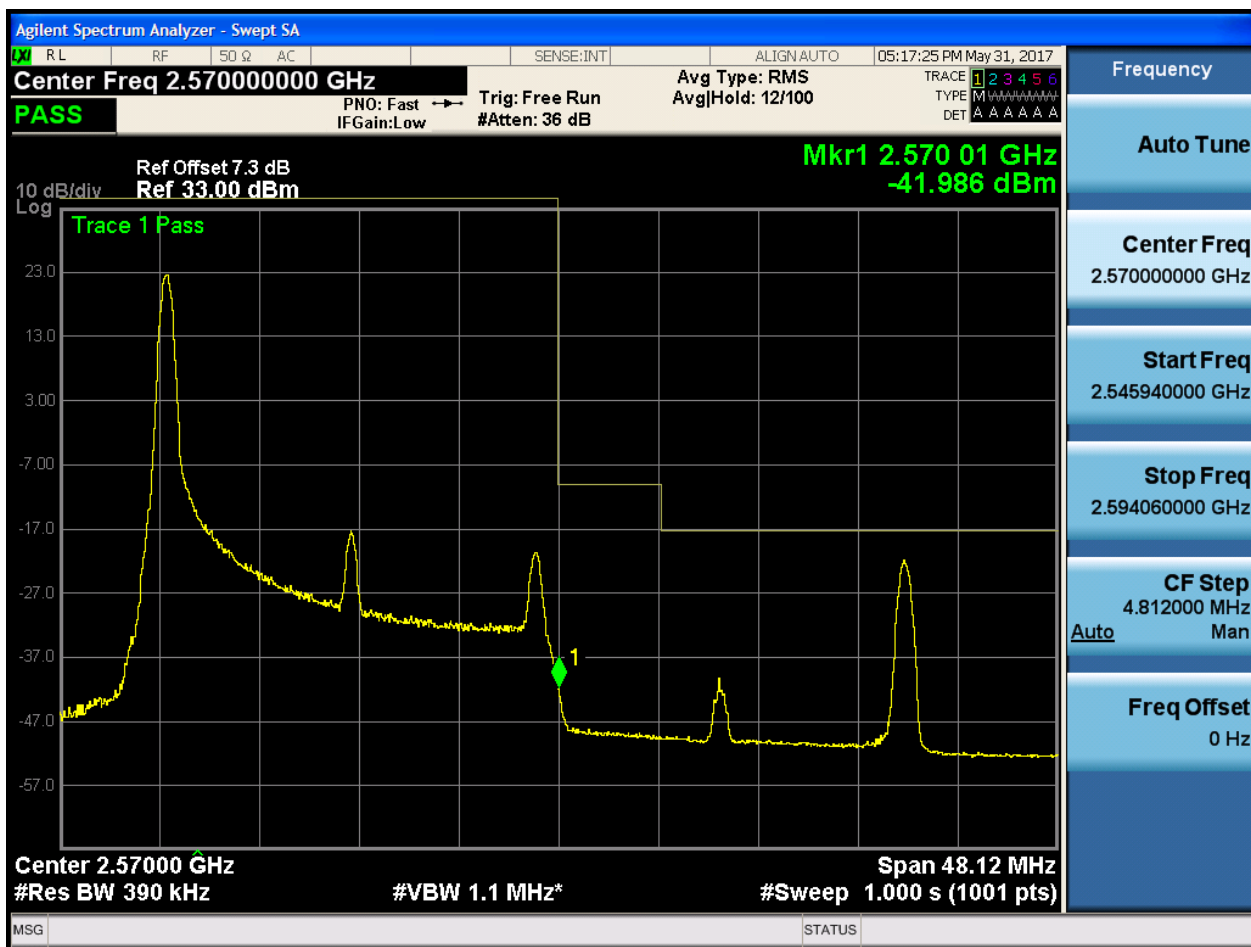


5.1.1.1.4.1.4 Test RB = RB100#0



5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-22.223 dBm

The figure shows a spectrum analyzer screen with a yellow trace on a black grid. The y-axis is labeled 'Log' and ranges from -57.0 to 23.0 dB/div. The x-axis represents frequency. A prominent peak is visible at approximately 2.57001 GHz, marked with a green diamond and labeled 'Mkr1'. Other smaller peaks are present at lower frequencies. The right side of the screen displays various parameters: Frequency (2.57000000 GHz), Auto Tune, Center Freq (2.57000000 GHz), Start Freq (2.545940000 GHz), Stop Freq (2.594060000 GHz), CF Step (4.812000 MHz Man), Freq Offset (0 Hz), Span (48.12 MHz), #Res BW (390 kHz), #VBW (1.1 MHz*), and #Sweep (1.000 s (1001 pts)).

Parameter	Value
Frequency	2.57000000 GHz
Auto Tune	
Center Freq	2.57000000 GHz
Start Freq	2.545940000 GHz
Stop Freq	2.594060000 GHz
CF Step	4.812000 MHz Man
Freq Offset	0 Hz
Span	48.12 MHz
#Res BW	390 kHz
#VBW	1.1 MHz*
#Sweep	1.000 s (1001 pts)



5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0

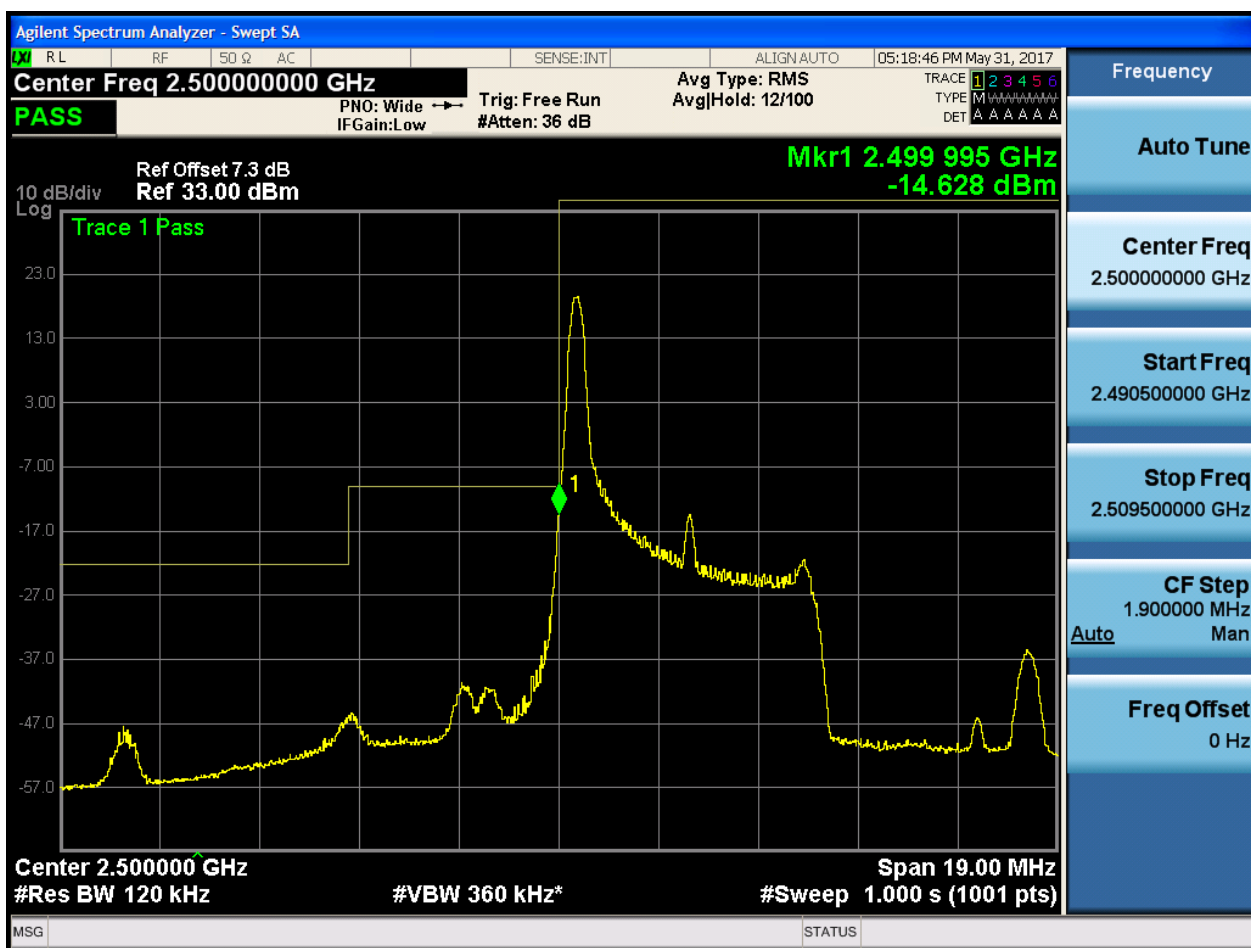


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

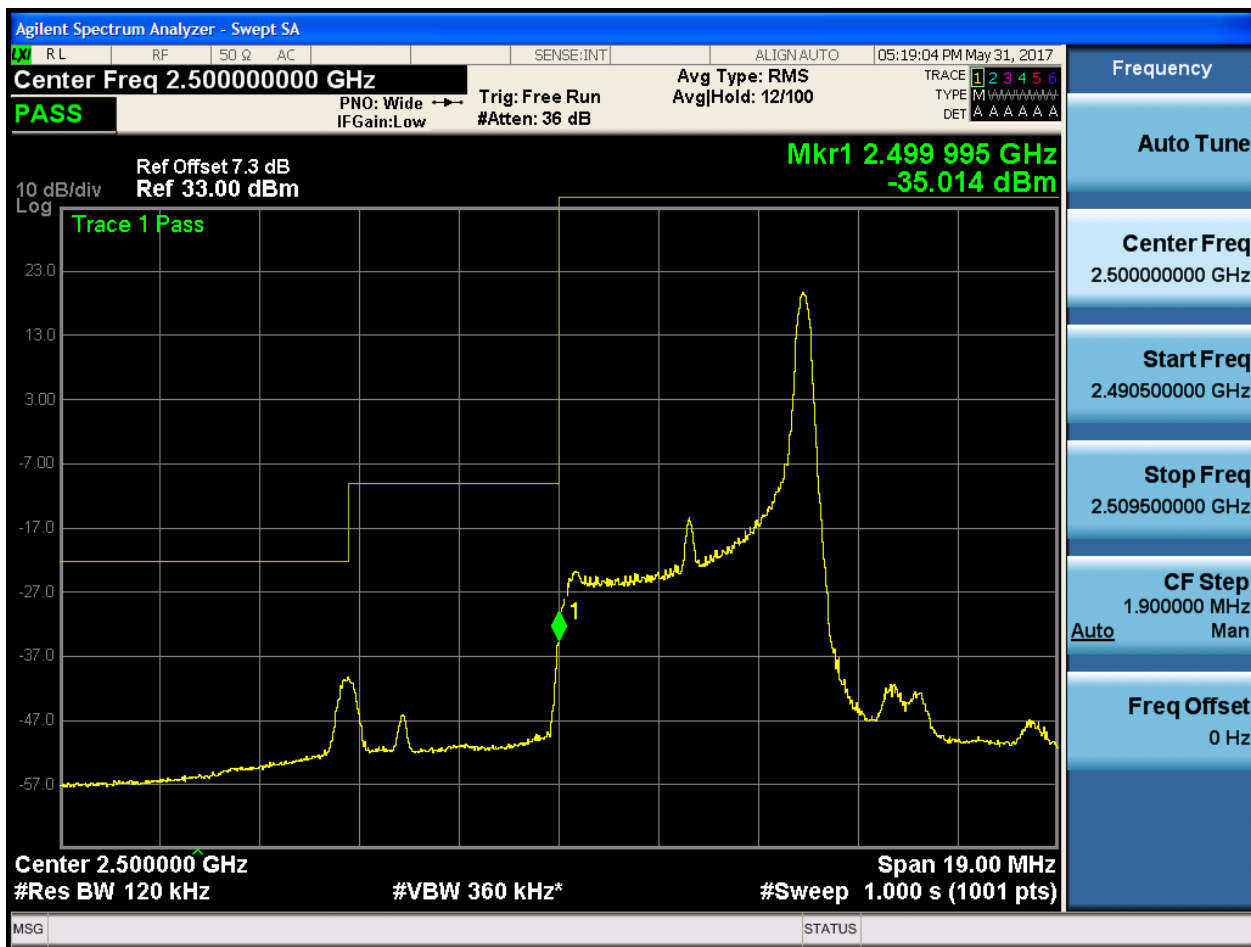
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



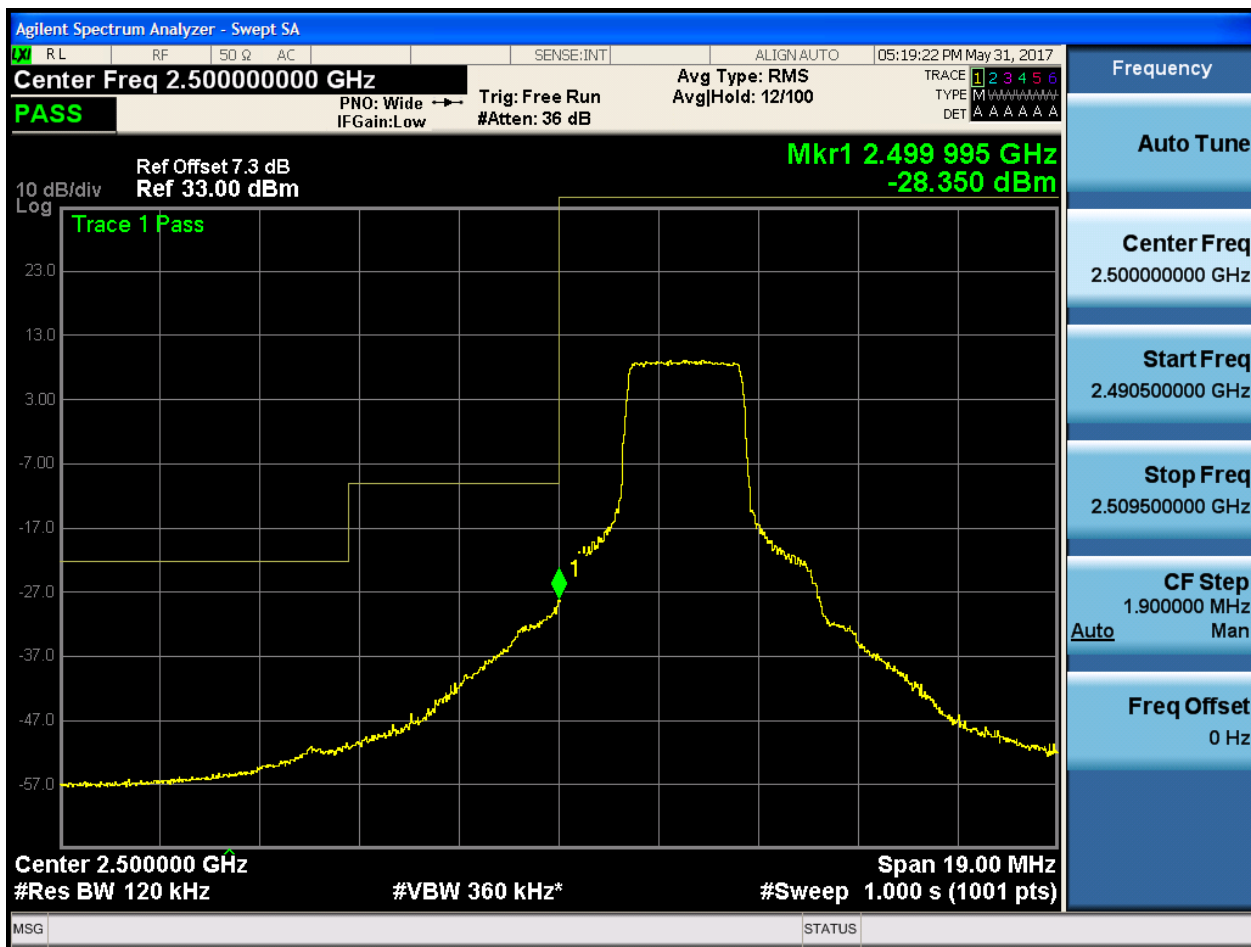


5.1.1.2.1.1.2 Test RB = RB1#24



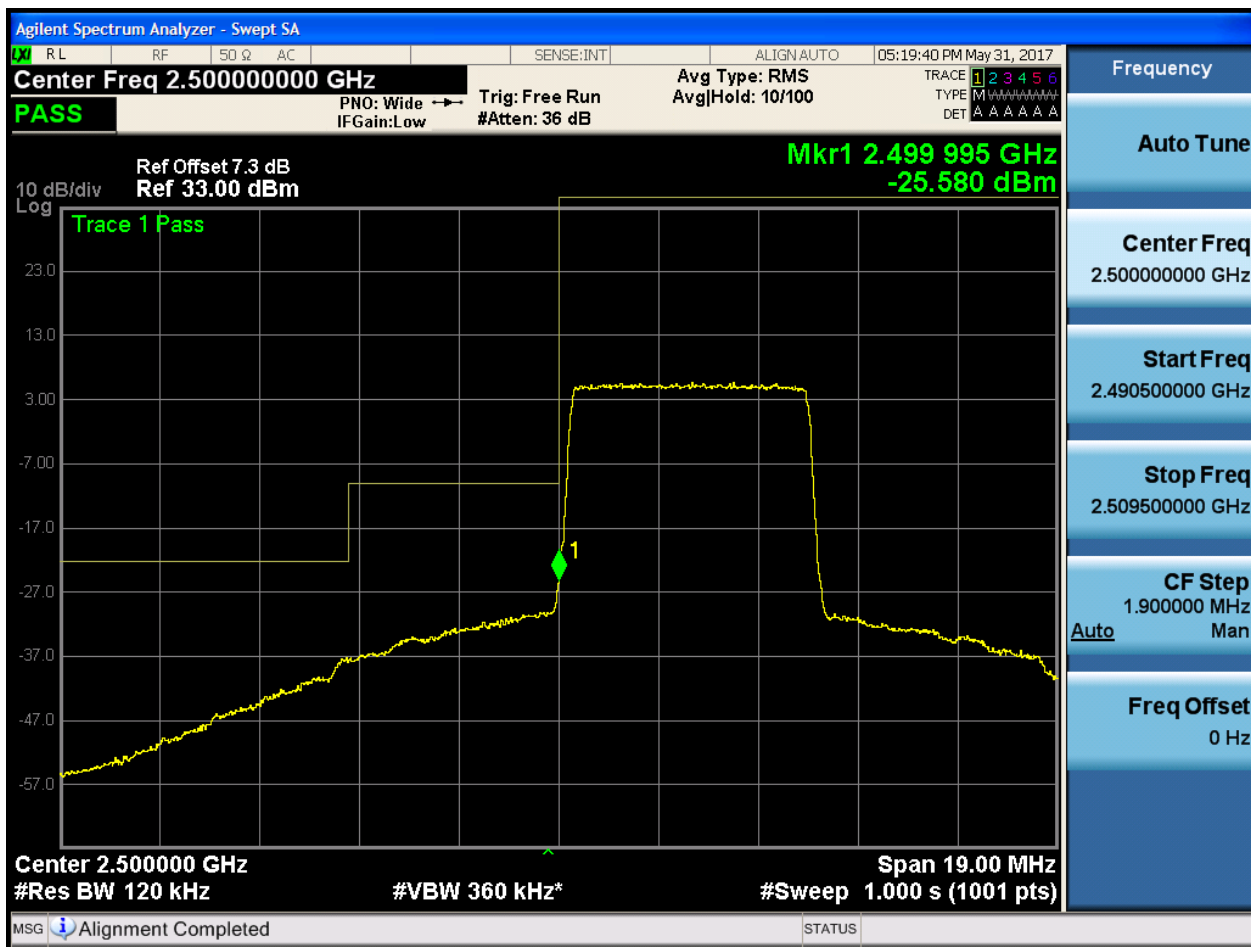


5.1.1.2.1.1.3 Test RB = RB12#6



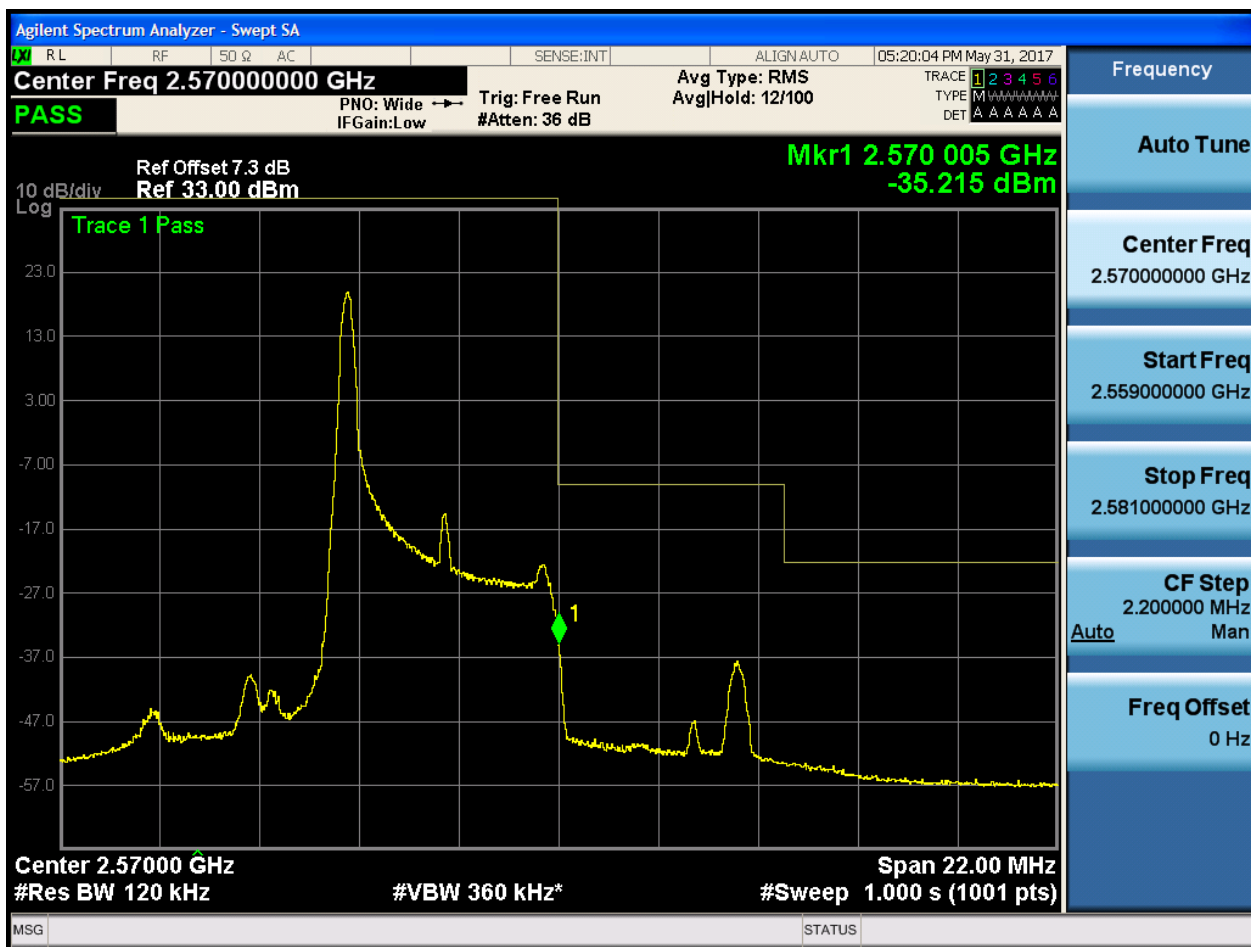


5.1.1.2.1.1.4 Test RB = RB25#0



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



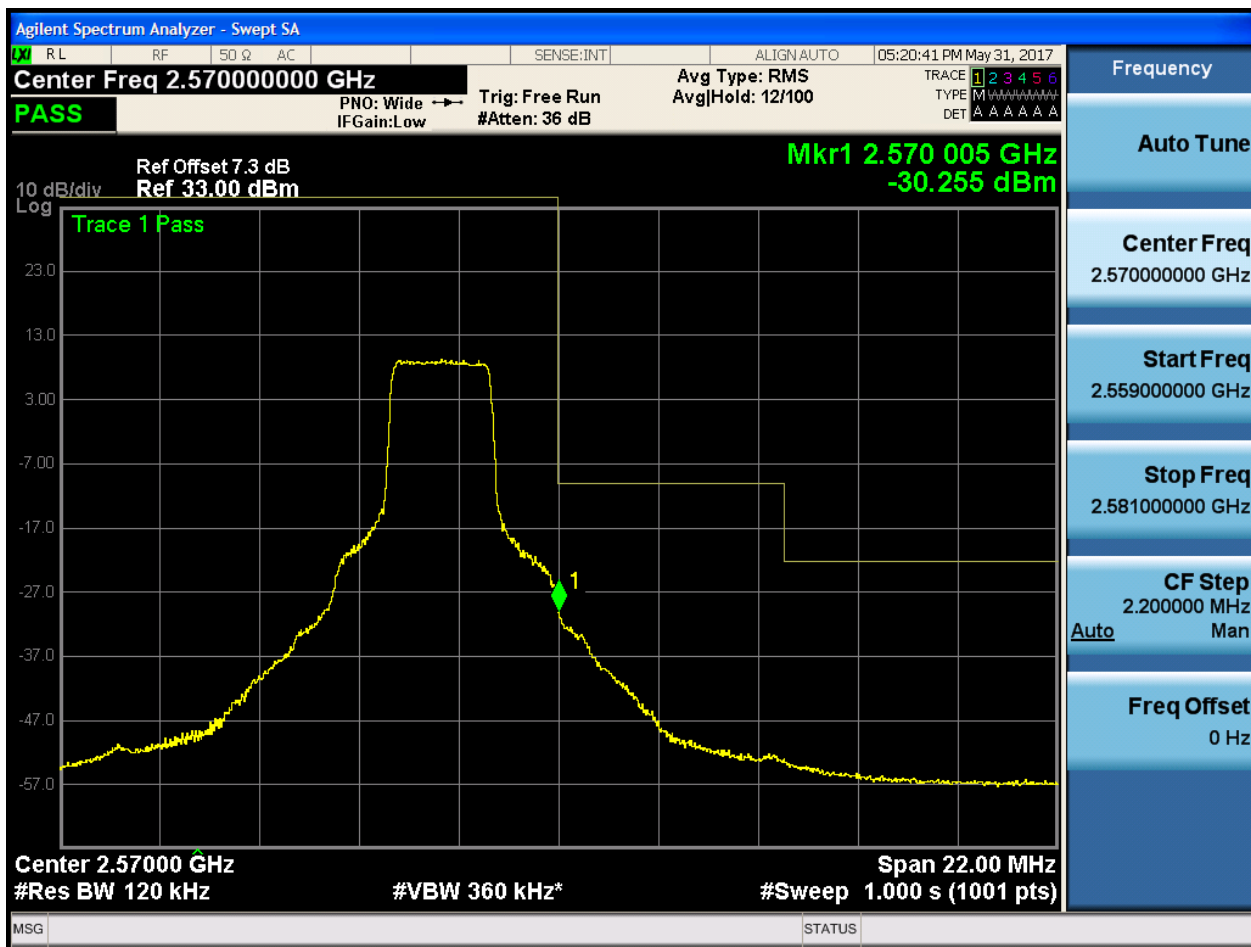


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





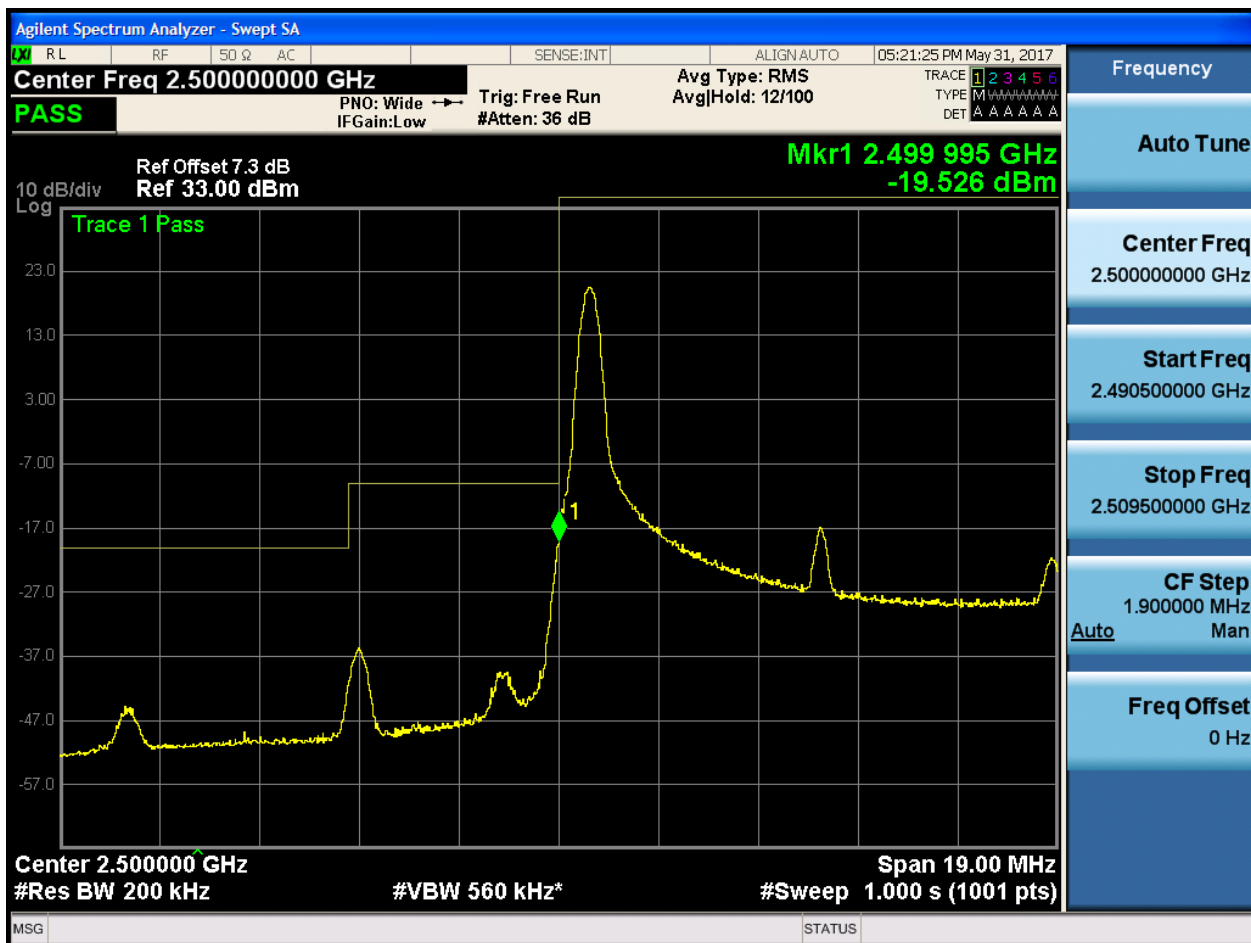
5.1.1.2.1.2.4 Test RB = RB25#0



5.1.1.2.2 Test Bandwidth = 10

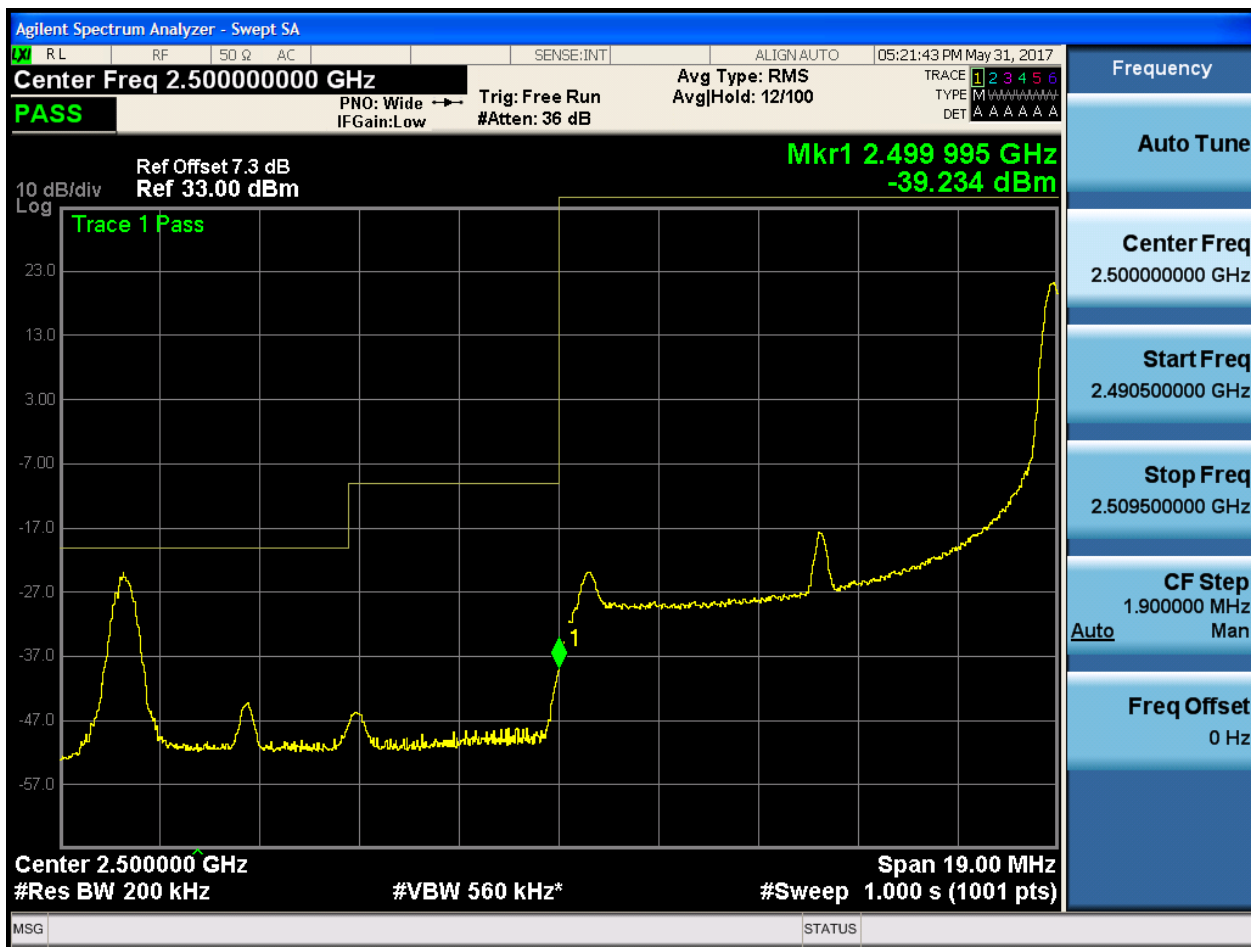
5.1.1.2.2.1 Test Channel = LCH

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



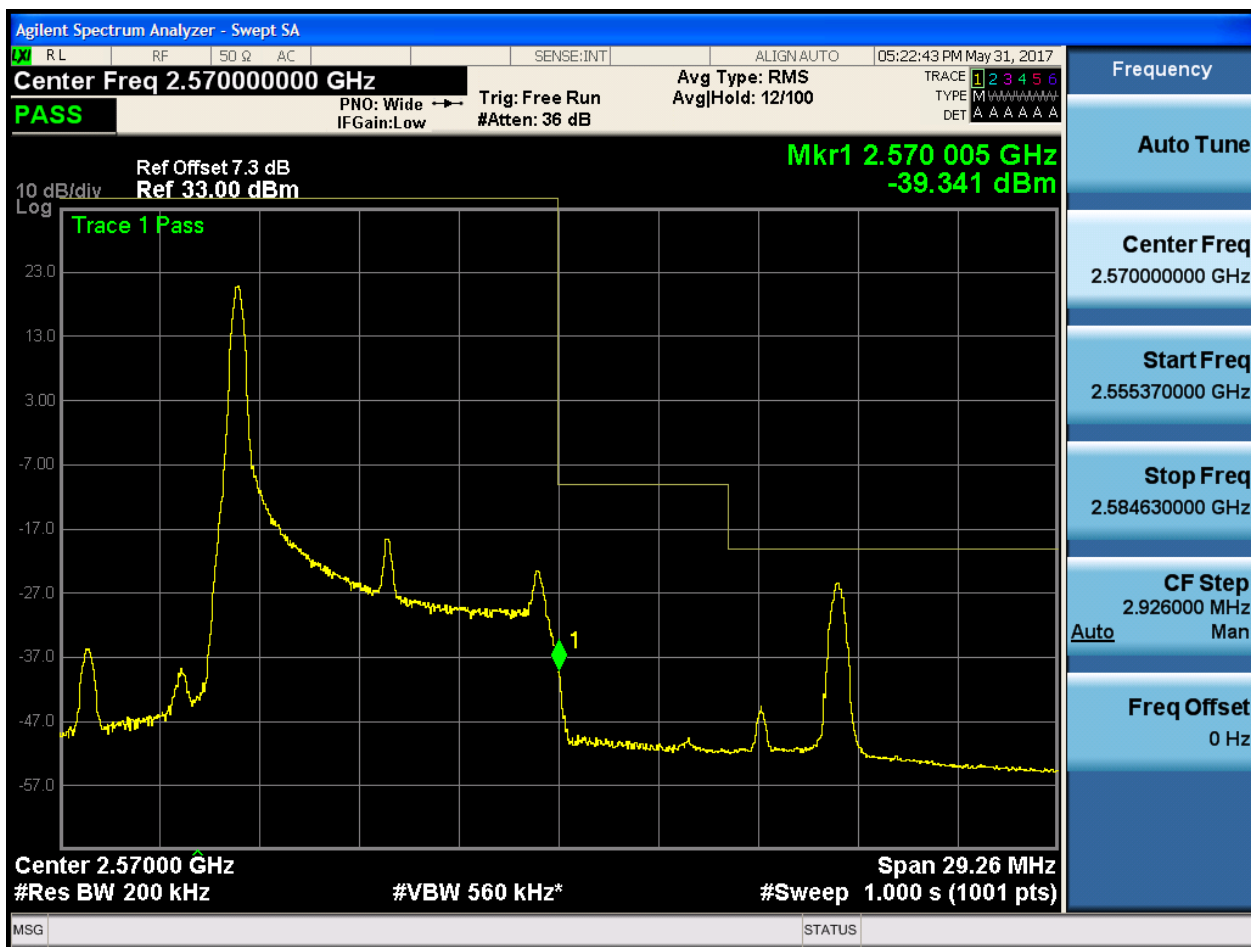


5.1.1.2.2.1.4 Test RB = RB50#0



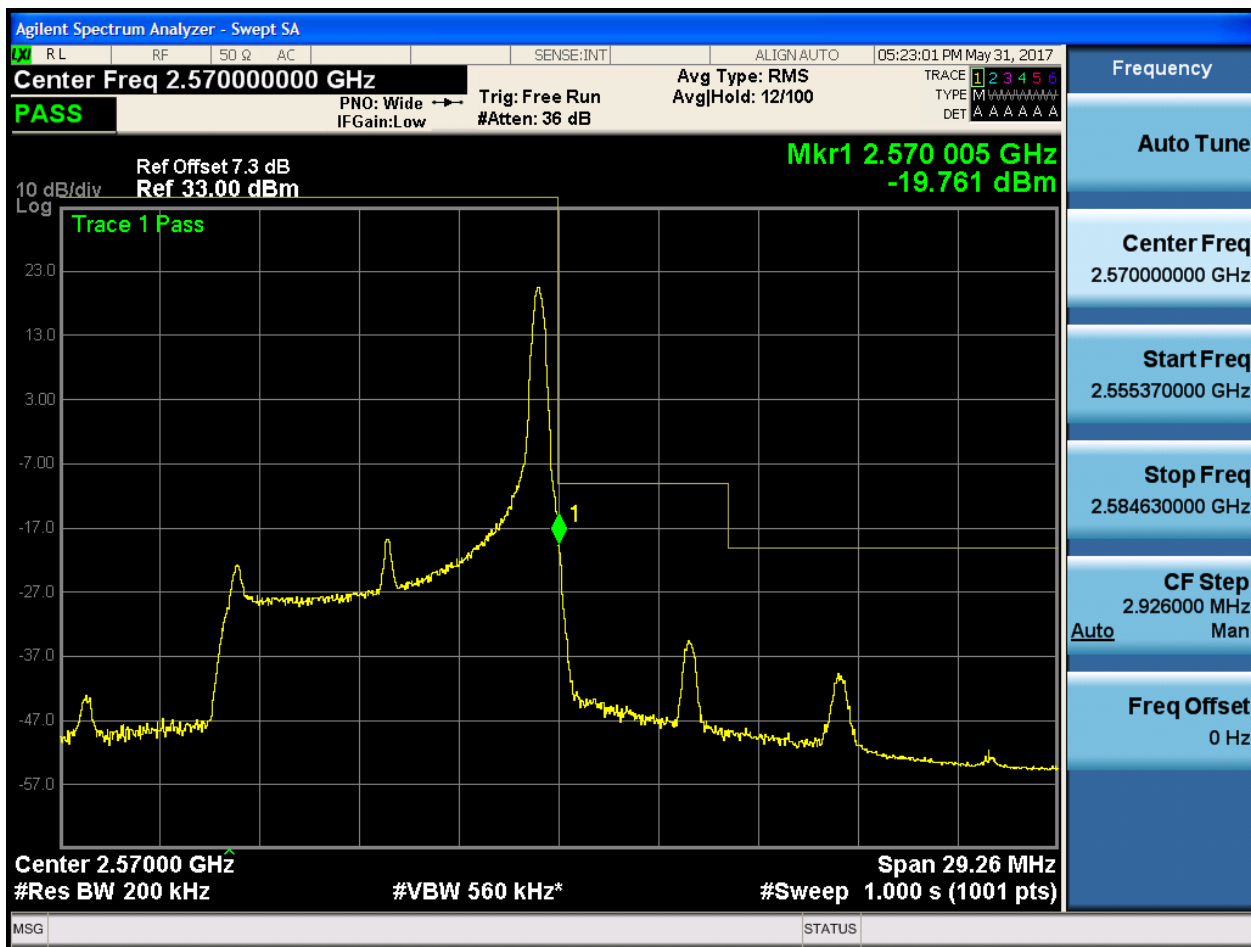
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





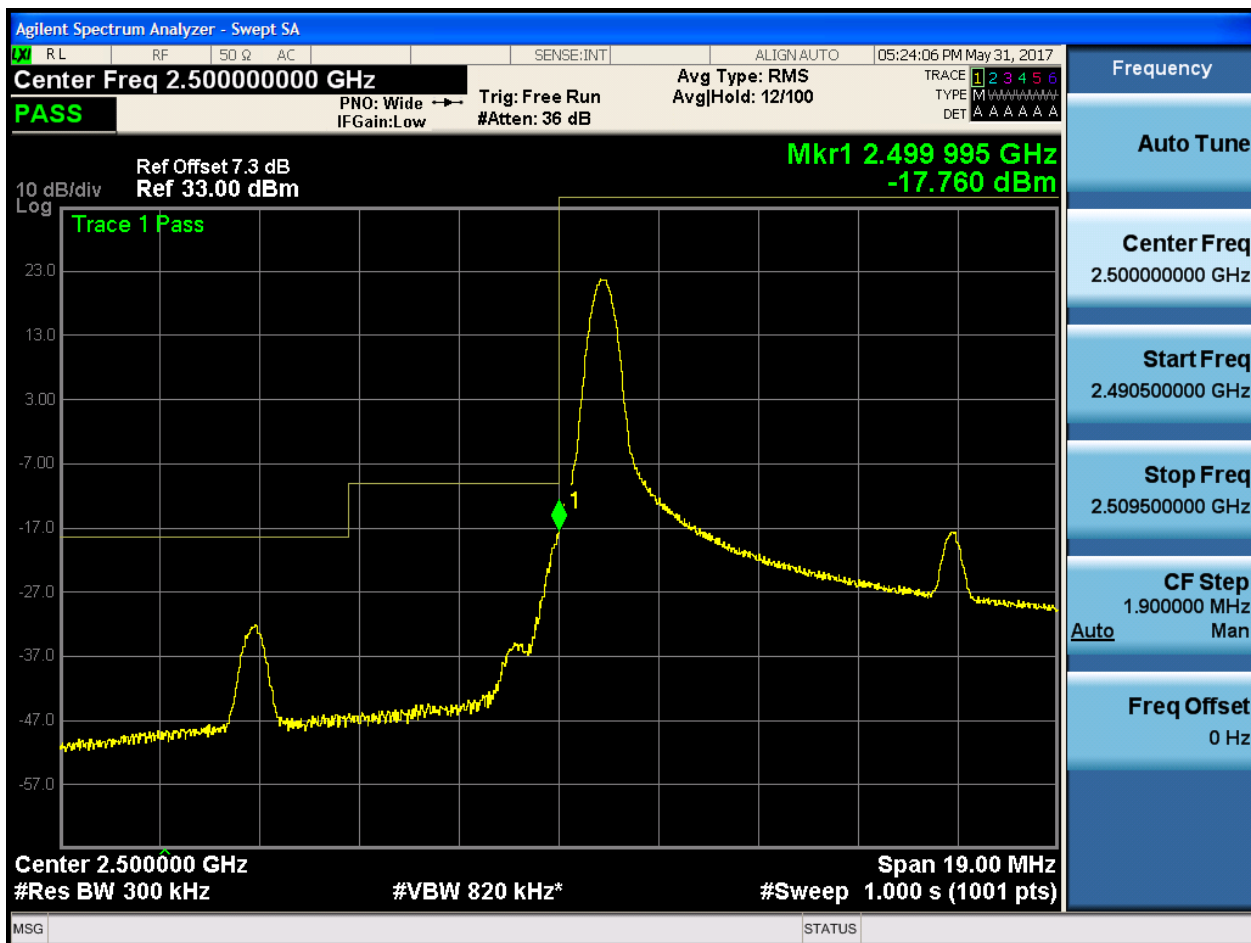
5.1.1.2.2.4 Test RB = RB50#0



5.1.1.2.3 Test Bandwidth = 15

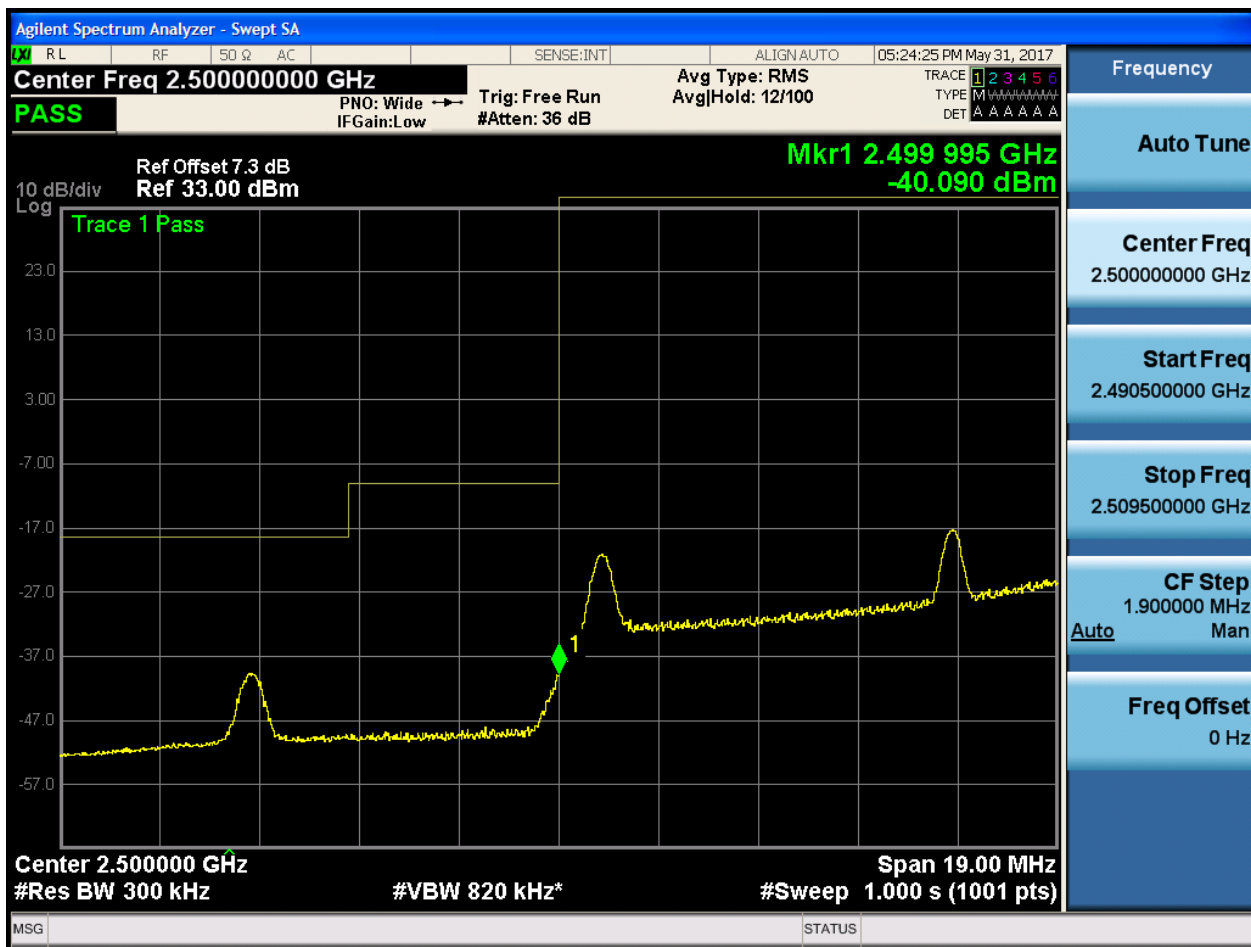
5.1.1.2.3.1 Test Channel = LCH

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





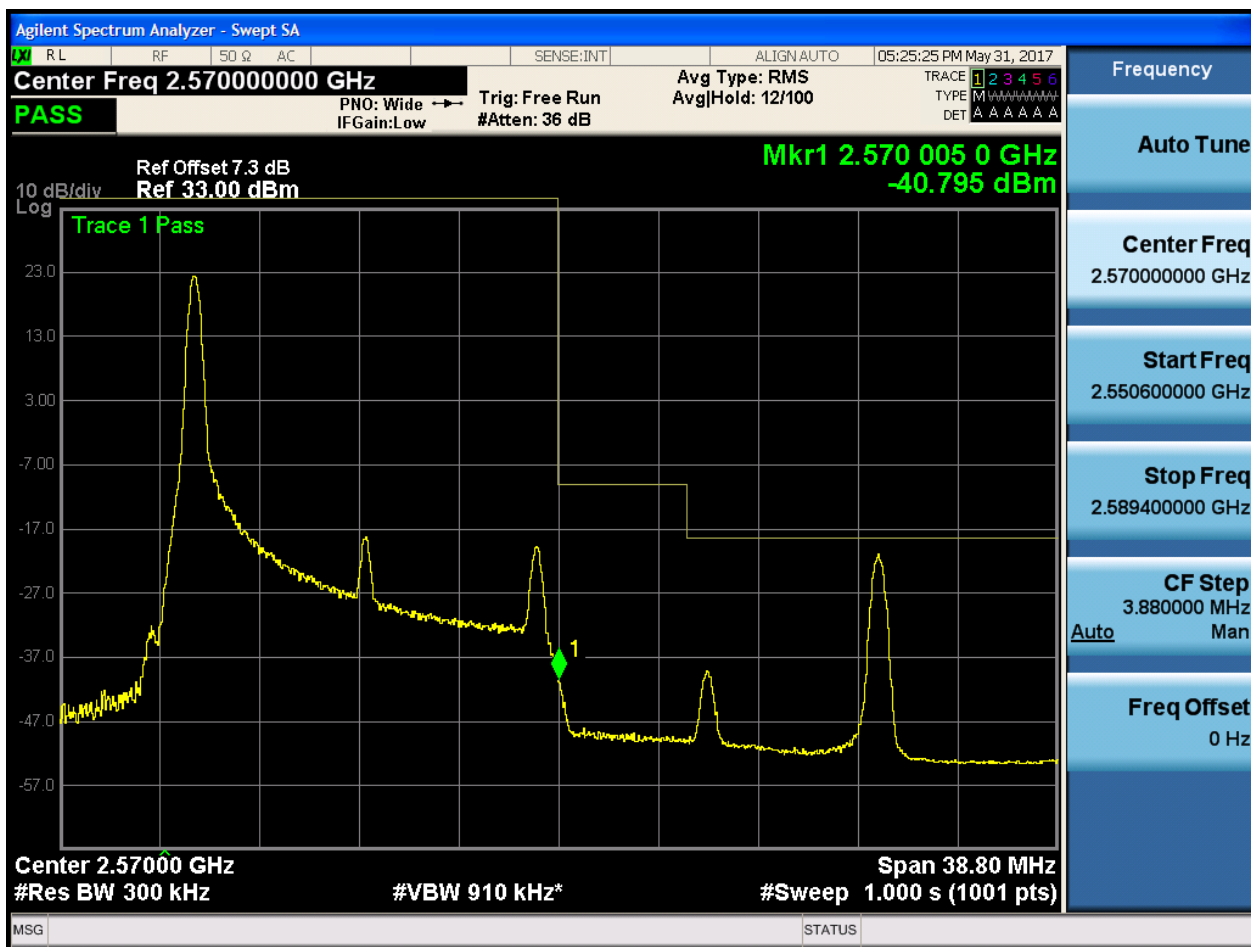
5.1.1.2.3.1.4 Test RB = RB75#0





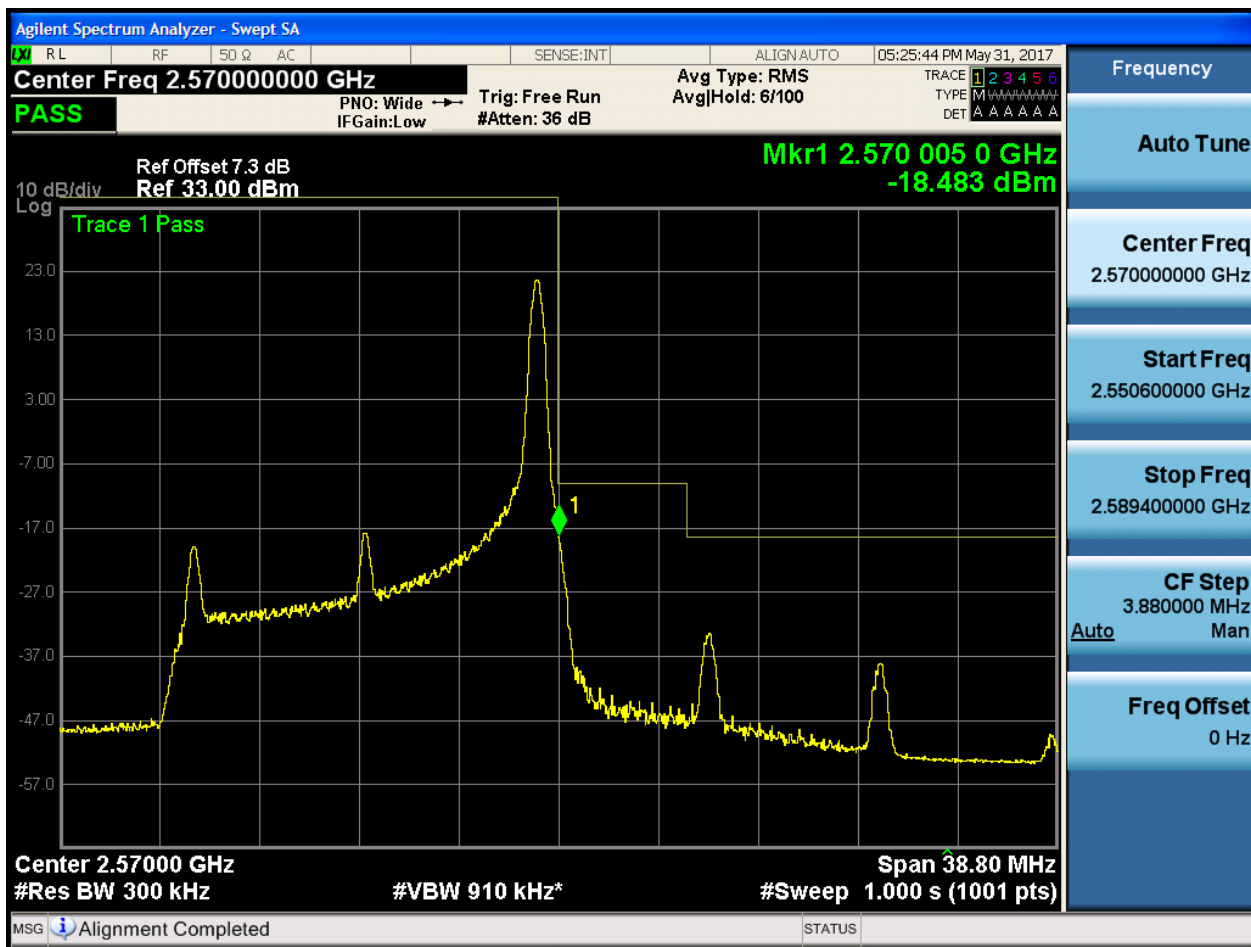
5.1.1.2.3.2 Test Channel = HCH

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:26:20 PM May 31, 2017

Center Freq 2.570000000 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 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 005 0 GHz
-29.230 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Span 38.80 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.550600000 GHz

Stop Freq
2.589400000 GHz

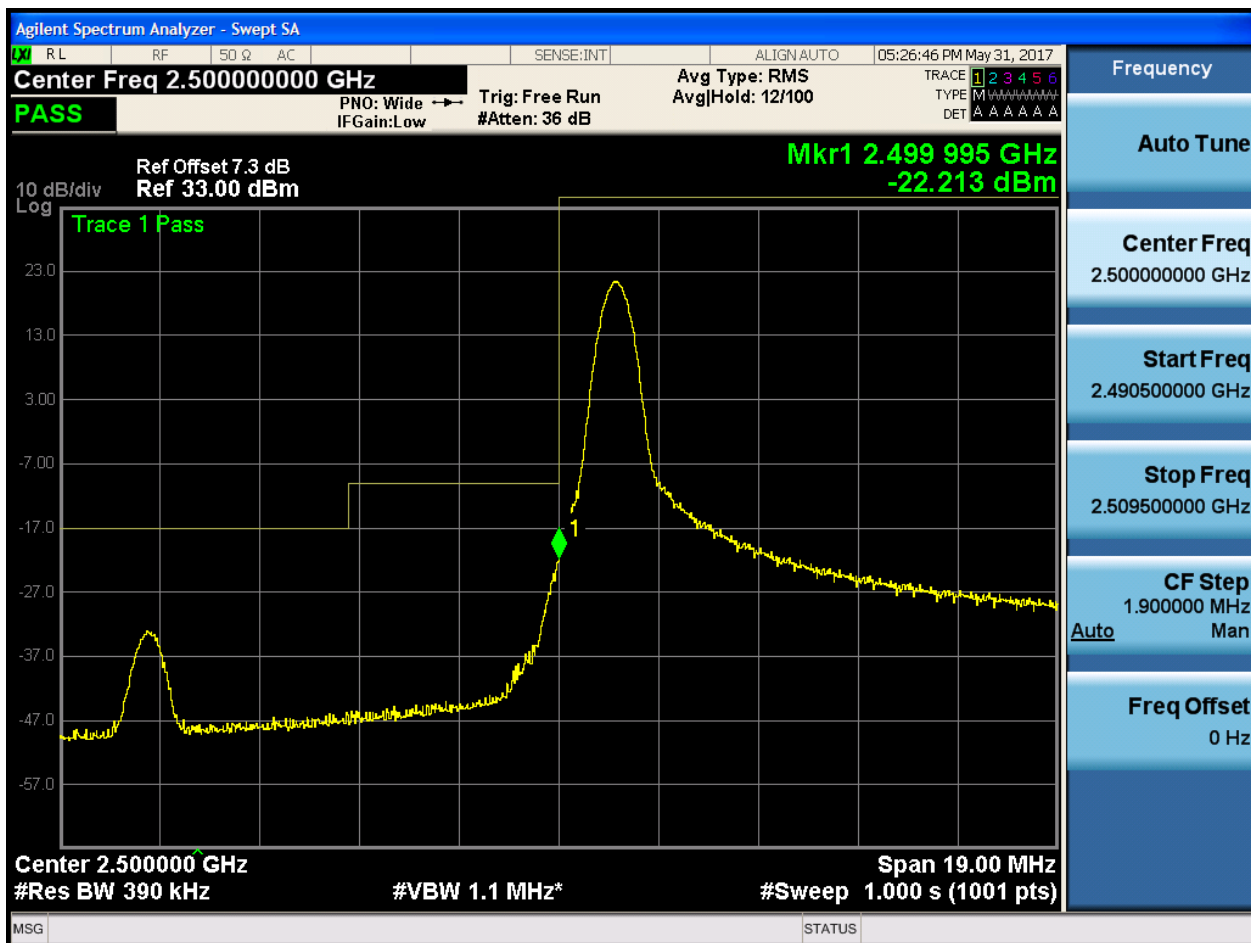
CF Step
3.880000 MHz
Auto Man

Freq Offset
0 Hz

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 05:27:04 PM May 31, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide 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 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-41.656 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 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.4.1.3 Test RB = RB50#25



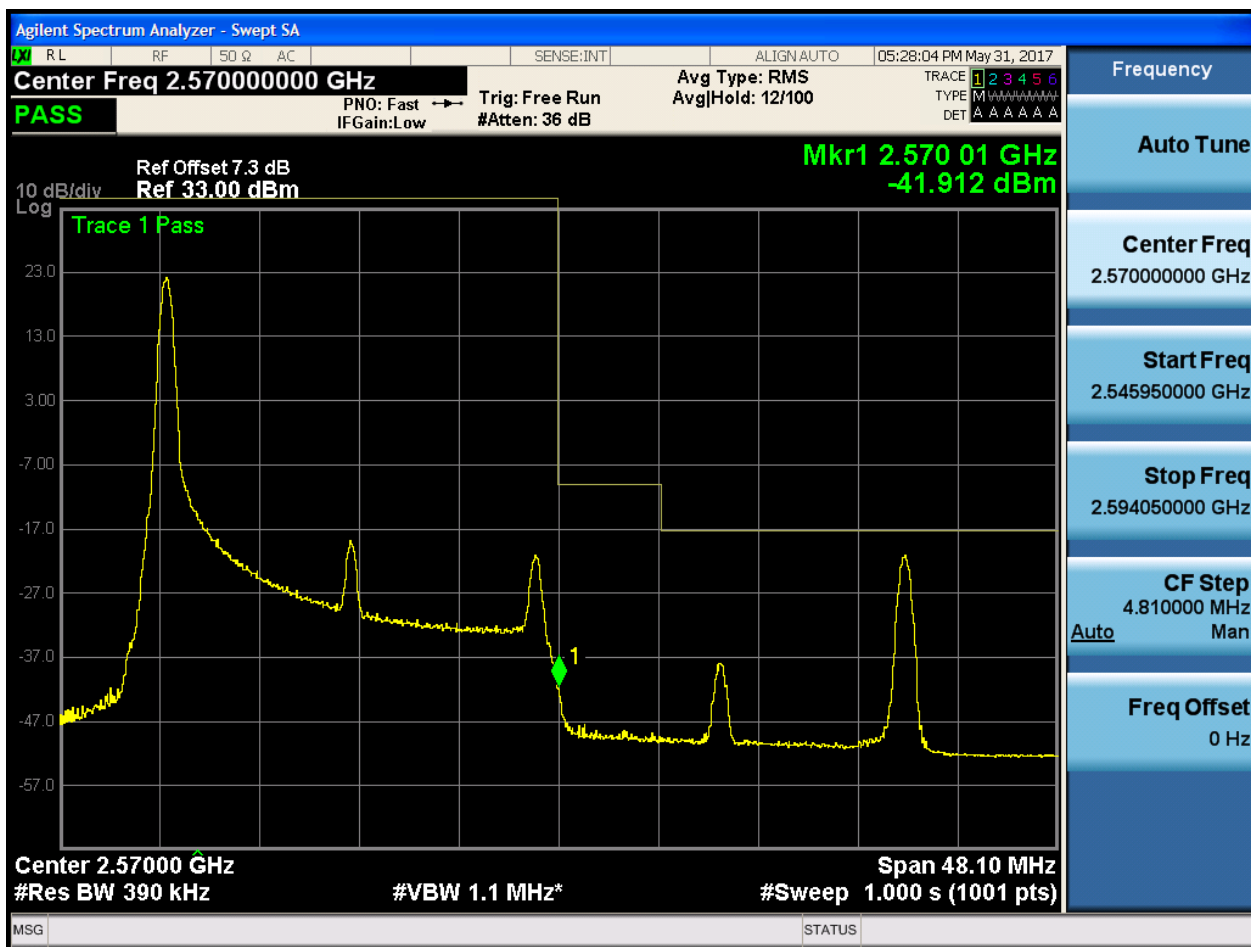


5.1.1.2.4.1.4 Test RB = RB100#0



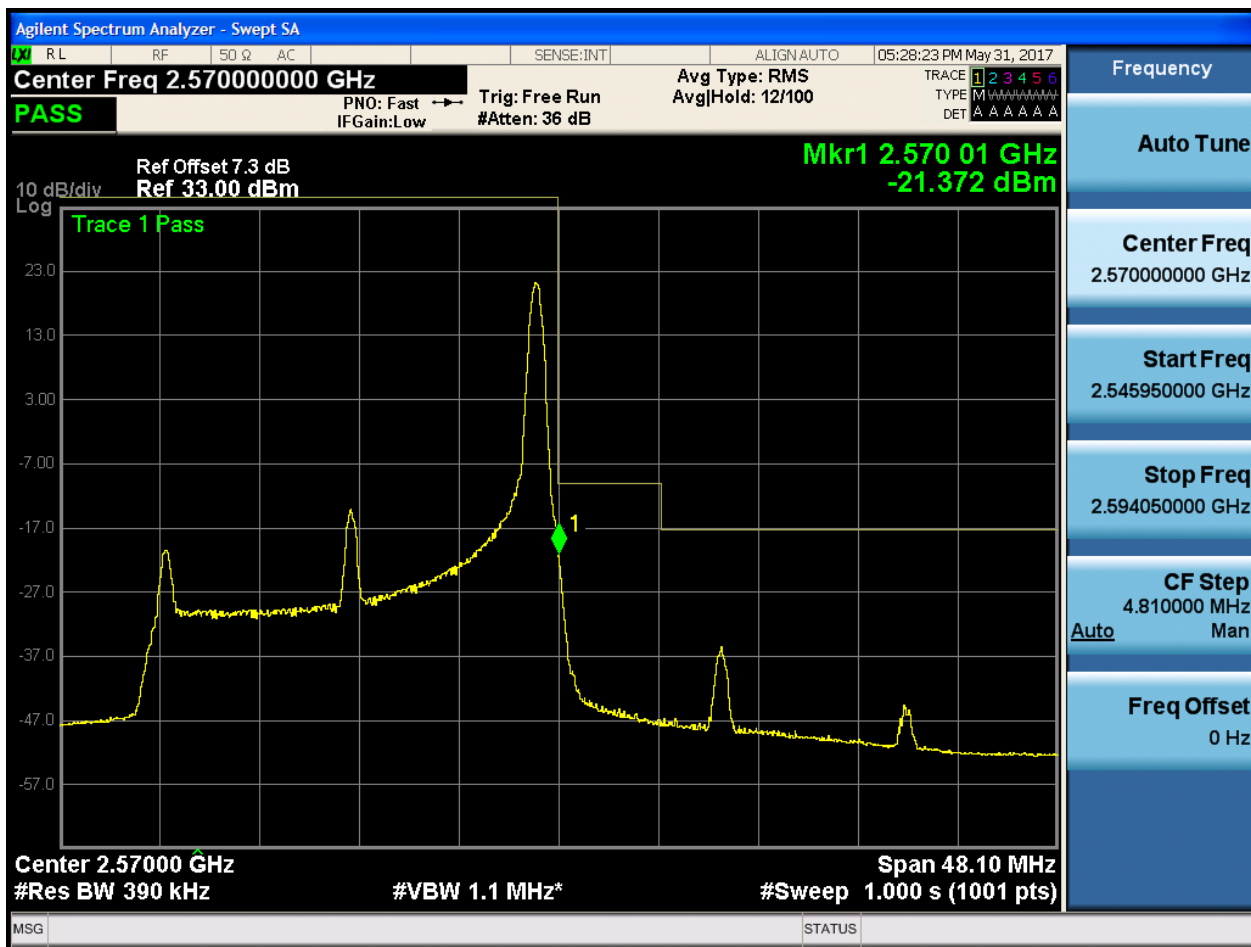
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



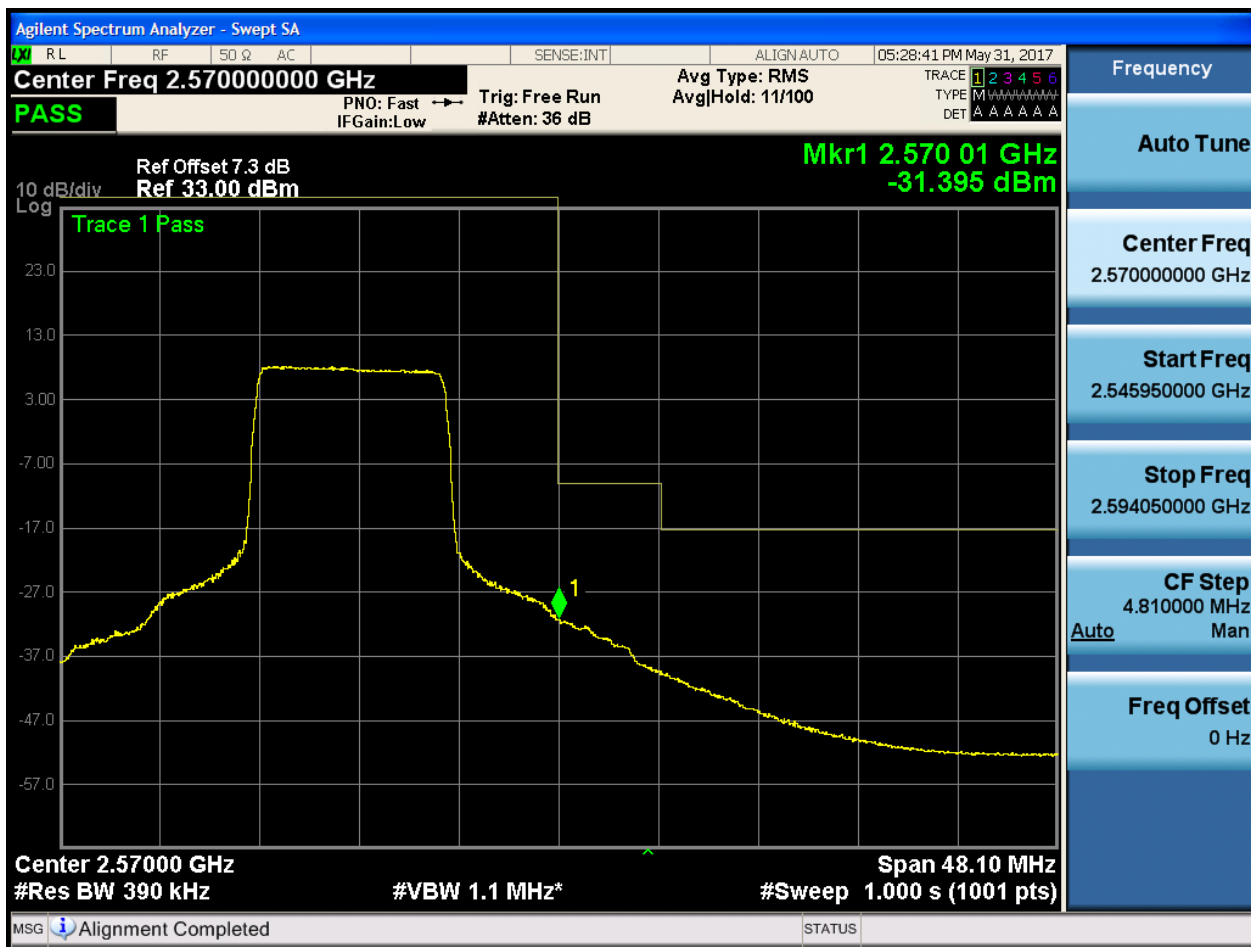


5.1.1.2.4.2.2 Test RB = RB1#99





5.1.1.2.4.2.3 Test RB = RB50#25





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

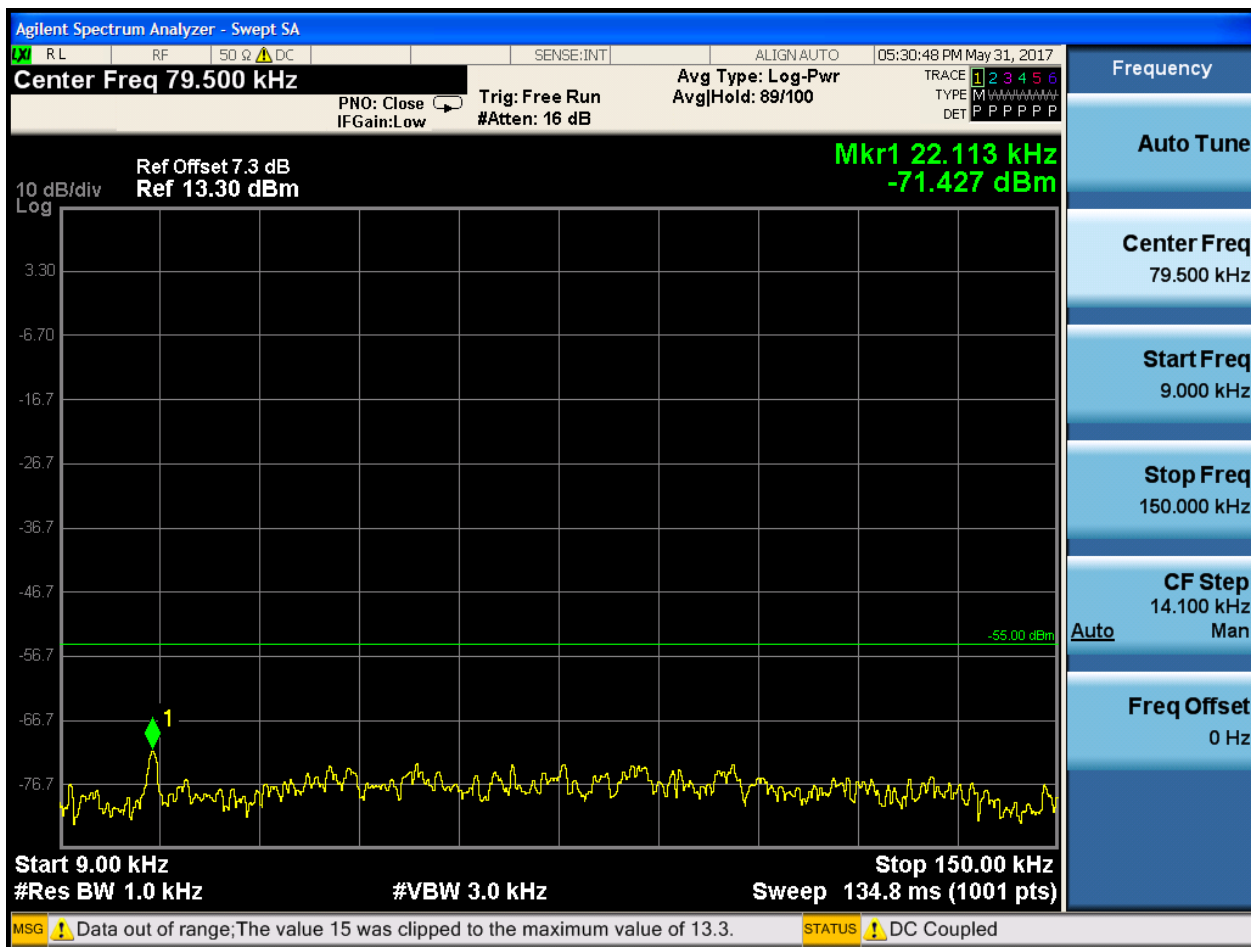
6.1.1 Test Band = BAND7

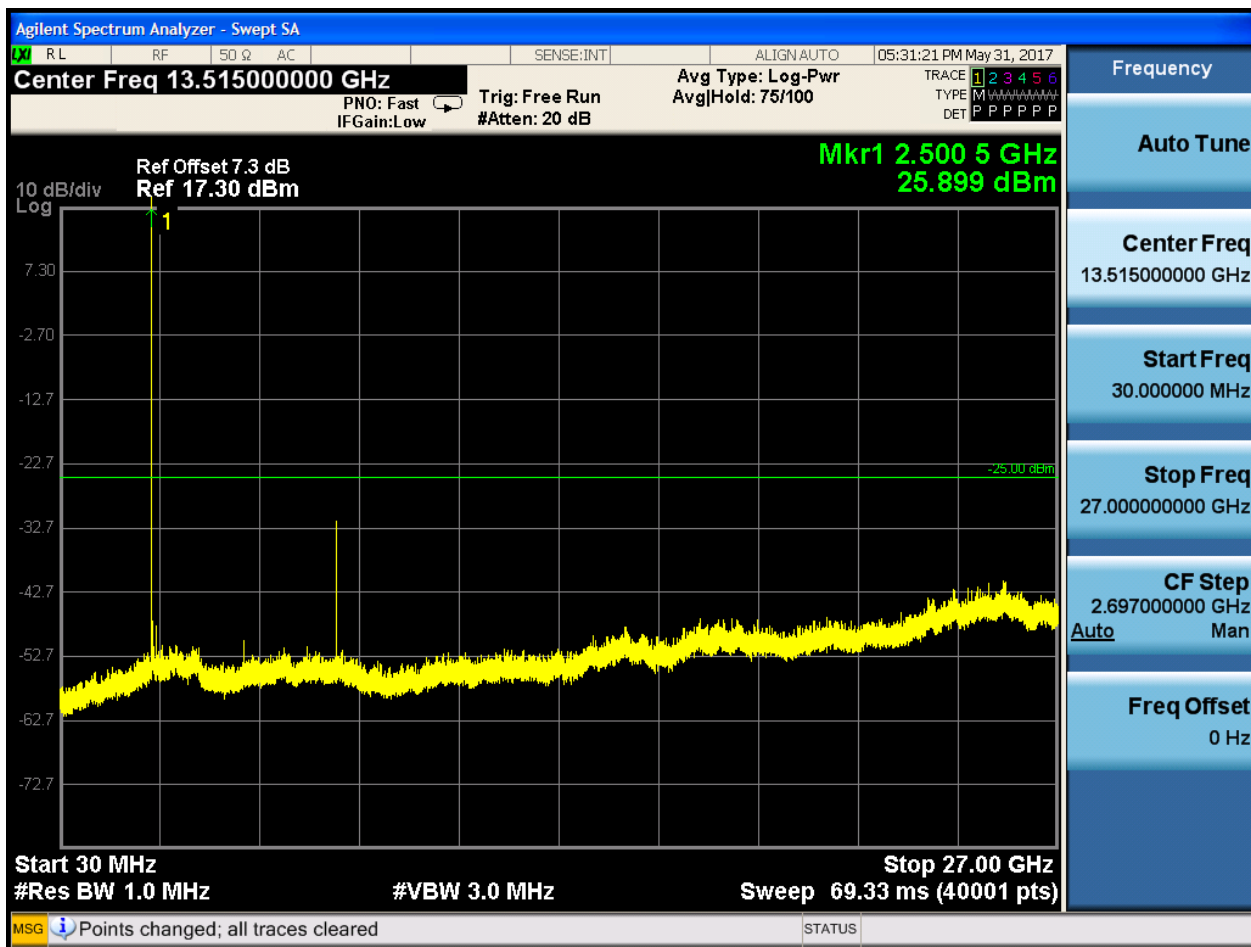
6.1.1.1 Test Mode = LTE/TM1

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

