



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	22.95	20.85	33	PASS
				RB1#13	23.2	21.1	33	PASS
				RB1#24	23.05	20.95	33	PASS
				RB12#0	22.17	20.07	33	PASS
				RB12#6	22.21	20.11	33	PASS
				RB12#13	22.19	20.09	33	PASS
				RB25#0	22.12	20.02	33	PASS
			MCH	RB1#0	22.99	20.89	33	PASS
				RB1#13	23.09	20.99	33	PASS
				RB1#24	22.85	20.75	33	PASS
				RB12#0	22.11	20.01	33	PASS
				RB12#6	22.12	20.02	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.07	19.97	33	PASS
				RB25#0	22.12	20.02	33	PASS
			HCH	RB1#0	23.19	21.09	33	PASS
				RB1#13	23.17	21.07	33	PASS
				RB1#24	23.09	20.99	33	PASS
				RB12#0	22.18	20.08	33	PASS
				RB12#6	22.2	20.1	33	PASS
				RB12#13	22.15	20.05	33	PASS
				RB25#0	22.21	20.11	33	PASS
		10	LCH	RB1#0	23.34	21.24	33	PASS
				RB1#25	23.48	21.38	33	PASS
				RB1#49	23.19	21.09	33	PASS
				RB25#0	22.18	20.08	33	PASS
				RB25#13	22.29	20.19	33	PASS
				RB25#25	22.12	20.02	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	22.26	20.16	33	PASS
				RB1#0	23.21	21.11	33	PASS
			MCH	RB1#25	23.46	21.36	33	PASS
				RB1#49	23.52	21.42	33	PASS
				RB25#0	22.25	20.15	33	PASS
				RB25#13	22.31	20.21	33	PASS
				RB25#25	22.2	20.1	33	PASS
				RB50#0	22.27	20.17	33	PASS
			HCH	RB1#0	23.31	21.21	33	PASS
				RB1#25	23.42	21.32	33	PASS
				RB1#49	23.21	21.11	33	PASS
				RB25#0	22.3	20.2	33	PASS
				RB25#13	22.32	20.22	33	PASS
				RB25#25	22.27	20.17	33	PASS
				RB50#0	22.28	20.18	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
		15	LCH	RB1#0	23.48	21.38	33	PASS
				RB1#38	22.93	20.83	33	PASS
				RB1#74	23.21	21.11	33	PASS
				RB38#0	22.18	20.08	33	PASS
				RB38#19	22.19	20.09	33	PASS
				RB38#39	22.22	20.12	33	PASS
				RB75#0	22.11	20.01	33	PASS
			MCH	RB1#0	23.52	21.42	33	PASS
				RB1#38	23.04	20.94	33	PASS
				RB1#74	23.19	21.09	33	PASS
				RB38#0	22.19	20.09	33	PASS
				RB38#19	22.2	20.1	33	PASS
				RB38#39	22.16	20.06	33	PASS
				RB75#0	22.22	20.12	33	PASS
			HCH	RB1#0	23.08	20.98	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#38	23.14	21.04	33	PASS
				RB1#74	23.25	21.15	33	PASS
				RB38#0	22.17	20.07	33	PASS
				RB38#19	22.26	20.16	33	PASS
				RB38#39	22.09	19.99	33	PASS
				RB75#0	22.14	20.04	33	PASS
		20	LCH	RB1#0	22.67	20.57	33	PASS
				RB1#50	23.01	20.91	33	PASS
				RB1#99	22.69	20.59	33	PASS
				RB50#0	22.2	20.1	33	PASS
				RB50#25	22.2	20.1	33	PASS
				RB50#50	22.09	19.99	33	PASS
				RB100#0	22.18	20.08	33	PASS
			MCH	RB1#0	22.72	20.62	33	PASS
				RB1#50	22.97	20.87	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.58	20.48	33	PASS
				RB50#0	22.29	20.19	33	PASS
				RB50#25	22.16	20.06	33	PASS
				RB50#50	22.17	20.07	33	PASS
				RB100#0	22.2	20.1	33	PASS
			HCH	RB1#0	23.04	20.94	33	PASS
				RB1#50	23.38	21.28	33	PASS
				RB1#99	23	20.9	33	PASS
				RB50#0	22.26	20.16	33	PASS
				RB50#25	22.23	20.13	33	PASS
				RB50#50	22.17	20.07	33	PASS
				RB100#0	22.23	20.13	33	PASS
	LTE/TM2	5	LCH	RB1#0	22.22	20.12	33	PASS
				RB1#13	22.36	20.26	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.42	20.32	33	PASS
				RB12#0	21.28	19.18	33	PASS
				RB12#6	21.16	19.06	33	PASS
				RB12#13	21.14	19.04	33	PASS
				RB25#0	21.19	19.09	33	PASS
			MCH	RB1#0	22.27	20.17	33	PASS
				RB1#13	22.29	20.19	33	PASS
				RB1#24	21.69	19.59	33	PASS
				RB12#0	21.38	19.28	33	PASS
				RB12#6	21.38	19.28	33	PASS
				RB12#13	21.33	19.23	33	PASS
				RB25#0	21.12	19.02	33	PASS
			HCH	RB1#0	22.29	20.19	33	PASS
				RB1#13	22.35	20.25	33	PASS
				RB1#24	22.11	20.01	33	PASS
				RB12#0	21.18	19.08	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#6	21.21	19.11	33	PASS
				RB12#13	21.07	18.97	33	PASS
				RB25#0	21.11	19.01	33	PASS
		10	LCH	RB1#0	22.21	20.11	33	PASS
				RB1#25	22.34	20.24	33	PASS
				RB1#49	22.09	19.99	33	PASS
				RB25#0	21.17	19.07	33	PASS
				RB25#13	21.18	19.08	33	PASS
				RB25#25	21.04	18.94	33	PASS
				RB50#0	21.18	19.08	33	PASS
			MCH	RB1#0	22.24	20.14	33	PASS
				RB1#25	22.16	20.06	33	PASS
				RB1#49	21.29	19.19	33	PASS
				RB25#0	21.1	19	33	PASS
				RB25#13	21.13	19.03	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.03	18.93	33	PASS
				RB50#0	21.14	19.04	33	PASS
			HCH	RB1#0	21.97	19.87	33	PASS
				RB1#25	22.33	20.23	33	PASS
				RB1#49	22.31	20.21	33	PASS
				RB25#0	21.4	19.3	33	PASS
				RB25#13	21.42	19.32	33	PASS
				RB25#25	21.38	19.28	33	PASS
				RB50#0	21.39	19.29	33	PASS
		15	LCH	RB1#0	22.13	20.03	33	PASS
				RB1#38	22.18	20.08	33	PASS
				RB1#74	22.43	20.33	33	PASS
				RB38#0	21.15	19.05	33	PASS
				RB38#19	21.16	19.06	33	PASS
				RB38#39	21.13	19.03	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.17	19.07	33	PASS
				RB1#0	22.35	20.25	33	PASS
			MCH	RB1#38	22.34	20.24	33	PASS
				RB1#74	22.06	19.96	33	PASS
				RB38#0	21.18	19.08	33	PASS
				RB38#19	21.2	19.1	33	PASS
				RB38#39	21.14	19.04	33	PASS
				RB75#0	21.2	19.1	33	PASS
			HCH	RB1#0	22.04	19.94	33	PASS
				RB1#38	22.41	20.31	33	PASS
				RB1#74	22.02	19.92	33	PASS
				RB38#0	21.15	19.05	33	PASS
				RB38#19	21.15	19.05	33	PASS
				RB38#39	21.06	18.96	33	PASS
				RB75#0	21.15	19.05	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
		20	LCH	RB1#0	22.02	19.92	33	PASS
				RB1#50	22.55	20.45	33	PASS
				RB1#99	21.92	19.82	33	PASS
				RB50#0	21.26	19.16	33	PASS
				RB50#25	21.33	19.23	33	PASS
				RB50#50	21.24	19.14	33	PASS
				RB100#0	21.18	19.08	33	PASS
			MCH	RB1#0	22.3	20.2	33	PASS
				RB1#50	22.27	20.17	33	PASS
				RB1#99	22.31	20.21	33	PASS
				RB50#0	21.37	19.27	33	PASS
				RB50#25	21.33	19.23	33	PASS
				RB50#50	21.14	19.04	33	PASS
				RB100#0	21.12	19.02	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.29	20.19	33	PASS
				RB1#50	22.56	20.46	33	PASS
				RB1#99	21.91	19.81	33	PASS
				RB50#0	21.2	19.1	33	PASS
				RB50#25	21.26	19.16	33	PASS
				RB50#50	21.1	19	33	PASS
				RB100#0	21.26	19.16	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:

SET Span=1.5*OBW

SET RBW=1%of the OBW,not to exceed 1MHz

SET VBW>= 3*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	3.92	13	PASS
				RB1#13	3.93	13	PASS
				RB1#24	4.13	13	PASS
				RB12#0	4.76	13	PASS
				RB12#6	4.7	13	PASS
				RB12#13	4.82	13	PASS
				RB25#0	5.34	13	PASS
			MCH	RB1#0	3.92	13	PASS
				RB1#13	3.9	13	PASS
				RB1#24	4.14	13	PASS
				RB12#0	4.72	13	PASS
				RB12#6	4.75	13	PASS
				RB12#13	4.88	13	PASS
				RB25#0	5.37	13	PASS
			HCH	RB1#0	3.62	13	PASS
				RB1#13	3.66	13	PASS
				RB1#24	3.82	13	PASS
				RB12#0	4.6	13	PASS
				RB12#6	4.43	13	PASS
				RB12#13	4.71	13	PASS
				RB25#0	5.13	13	PASS
		10	LCH	RB1#0	3.94	13	PASS
				RB1#25	3.93	13	PASS
				RB1#49	4.03	13	PASS
				RB25#0	4.8	13	PASS
				RB25#13	4.78	13	PASS
				RB25#25	4.91	13	PASS
				RB50#0	5.56	13	PASS
			MCH	RB1#0	3.76	13	PASS
				RB1#25	3.86	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.08	13	PASS
				RB25#0	4.76	13	PASS
				RB25#13	4.72	13	PASS
				RB25#25	4.92	13	PASS
				RB50#0	4.96	13	PASS
			HCH	RB1#0	3.14	13	PASS
				RB1#25	3.41	13	PASS
				RB1#49	3.8	13	PASS
				RB25#0	4.21	13	PASS
				RB25#13	4.32	13	PASS
				RB25#25	4.58	13	PASS
				RB50#0	4.74	13	PASS
		15	LCH	RB1#0	3.8	13	PASS
				RB1#38	3.93	13	PASS
				RB1#74	3.79	13	PASS
				RB38#0	4.86	13	PASS
				RB38#19	4.85	13	PASS
				RB38#39	4.79	13	PASS
				RB75#0	5.53	13	PASS
			MCH	RB1#0	3.48	13	PASS
				RB1#38	3.89	13	PASS
				RB1#74	3.85	13	PASS
				RB38#0	4.69	13	PASS
				RB38#19	4.81	13	PASS
				RB38#39	4.98	13	PASS
				RB75#0	5.57	13	PASS
			HCH	RB1#0	3.11	13	PASS
				RB1#38	3.29	13	PASS
				RB1#74	3.73	13	PASS
				RB38#0	4.14	13	PASS
				RB38#19	4.12	13	PASS
				RB38#39	4.52	13	PASS
				RB75#0	5.09	13	PASS
		20	LCH	RB1#0	4.02	13	PASS
				RB1#50	4.07	13	PASS
				RB1#99	3.96	13	PASS
				RB50#0	4.88	13	PASS
				RB50#25	4.76	13	PASS
				RB50#50	4.7	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	5.6	13	PASS
			MCH	RB1#0	3.83	13	PASS
				RB1#50	4	13	PASS
				RB1#99	4.19	13	PASS
				RB50#0	4.69	13	PASS
				RB50#25	4.77	13	PASS
				RB50#50	5	13	PASS
				RB100#0	5.19	13	PASS
			HCH	RB1#0	3.51	13	PASS
				RB1#50	3.03	13	PASS
				RB1#99	3.89	13	PASS
				RB50#0	4.17	13	PASS
				RB50#25	4.02	13	PASS
				RB50#50	4.45	13	PASS
				RB100#0	4.86	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.85	13	PASS
				RB1#13	4.96	13	PASS
				RB1#24	5.04	13	PASS
				RB12#0	5.65	13	PASS
				RB12#6	5.58	13	PASS
				RB12#13	5.69	13	PASS
				RB25#0	6.03	13	PASS
			MCH	RB1#0	4.92	13	PASS
				RB1#13	4.89	13	PASS
				RB1#24	5.15	13	PASS
				RB12#0	5.72	13	PASS
				RB12#6	5.62	13	PASS
				RB12#13	5.83	13	PASS
				RB25#0	6.38	13	PASS
			HCH	RB1#0	4.43	13	PASS
				RB1#13	4.3	13	PASS
				RB1#24	4.37	13	PASS
				RB12#0	5.39	13	PASS
				RB12#6	5.35	13	PASS
				RB12#13	5.6	13	PASS
				RB25#0	5.95	13	PASS
		10	LCH	RB1#0	4.89	13	PASS
				RB1#25	4.96	13	PASS
				RB1#49	5.19	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.81	13	PASS
				RB25#13	5.68	13	PASS
				RB25#25	5.89	13	PASS
				RB50#0	6.71	13	PASS
			MCH	RB1#0	4.74	13	PASS
				RB1#25	5	13	PASS
				RB1#49	5.06	13	PASS
				RB25#0	5.73	13	PASS
				RB25#13	5.69	13	PASS
				RB25#25	5.99	13	PASS
				RB50#0	6.61	13	PASS
			HCH	RB1#0	4.24	13	PASS
				RB1#25	4.36	13	PASS
				RB1#49	4.73	13	PASS
				RB25#0	5.04	13	PASS
				RB25#13	5.01	13	PASS
				RB25#25	5.45	13	PASS
				RB50#0	6.09	13	PASS
		15	LCH	RB1#0	4.89	13	PASS
				RB1#38	4.94	13	PASS
				RB1#74	4.79	13	PASS
				RB38#0	5.88	13	PASS
				RB38#19	5.81	13	PASS
				RB38#39	5.94	13	PASS
				RB75#0	6.33	13	PASS
			MCH	RB1#0	4.6	13	PASS
				RB1#38	4.97	13	PASS
				RB1#74	5.22	13	PASS
				RB38#0	5.67	13	PASS
				RB38#19	5.7	13	PASS
				RB38#39	5.98	13	PASS
				RB75#0	6.29	13	PASS
			HCH	RB1#0	3.69	13	PASS
				RB1#38	3.63	13	PASS
				RB1#74	4.24	13	PASS
				RB38#0	5.11	13	PASS
				RB38#19	5.08	13	PASS
				RB38#39	5.46	13	PASS
				RB75#0	5.88	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	4.77	13	PASS
				RB1#50	4.67	13	PASS
				RB1#99	4.54	13	PASS
				RB50#0	5.81	13	PASS
				RB50#25	5.68	13	PASS
				RB50#50	5.8	13	PASS
				RB100#0	6.31	13	PASS
			MCH	RB1#0	4.4	13	PASS
				RB1#50	4.68	13	PASS
				RB1#99	5.01	13	PASS
				RB50#0	5.58	13	PASS
				RB50#25	5.71	13	PASS
				RB50#50	5.87	13	PASS
				RB100#0	6.06	13	PASS
			HCH	RB1#0	4.4	13	PASS
				RB1#50	4.09	13	PASS
				RB1#99	4.57	13	PASS
				RB50#0	5.14	13	PASS
				RB50#25	4.92	13	PASS
				RB50#50	5.33	13	PASS
				RB100#0	5.72	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

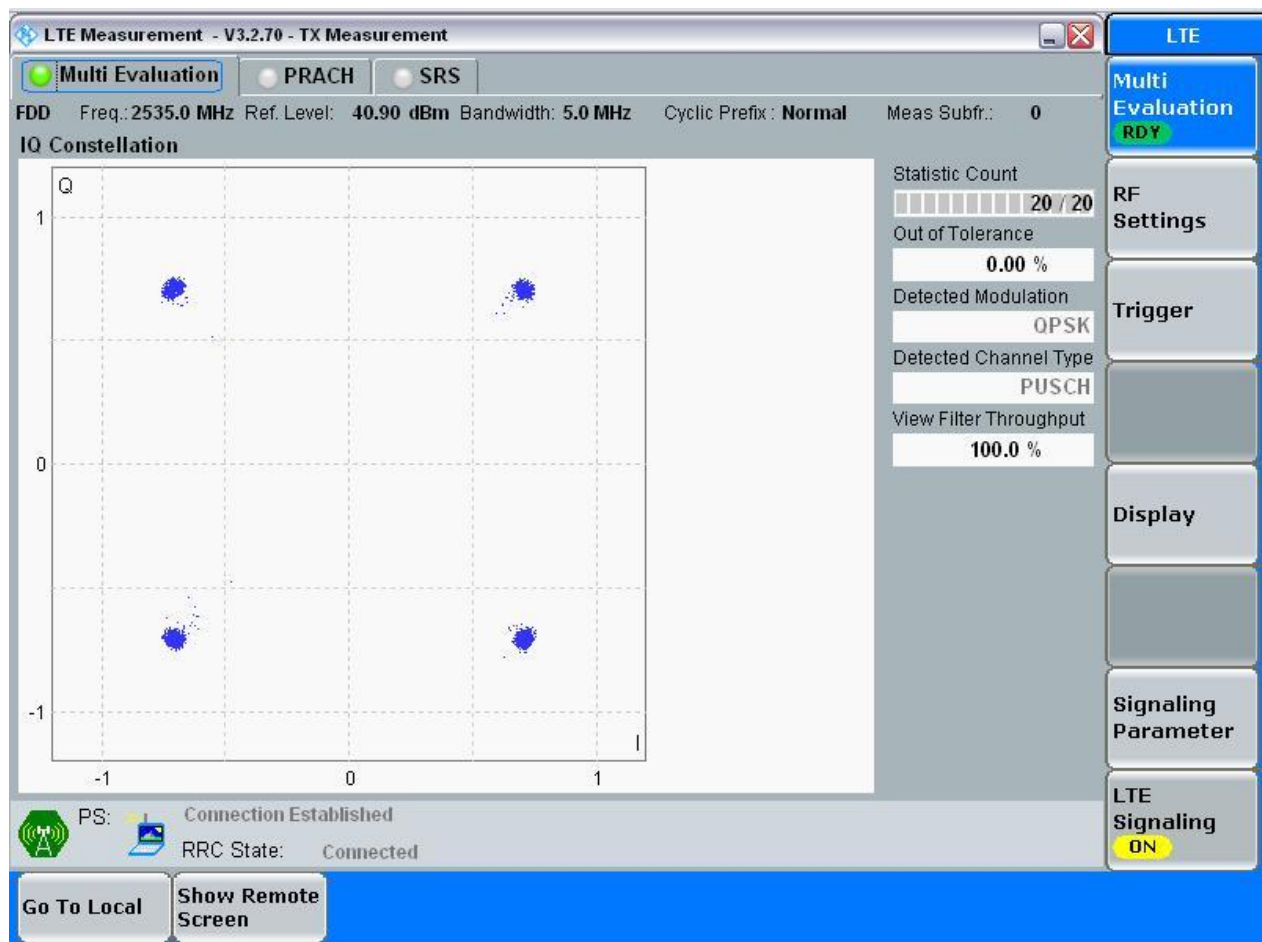
3.1.1 Test Band = BAND7

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

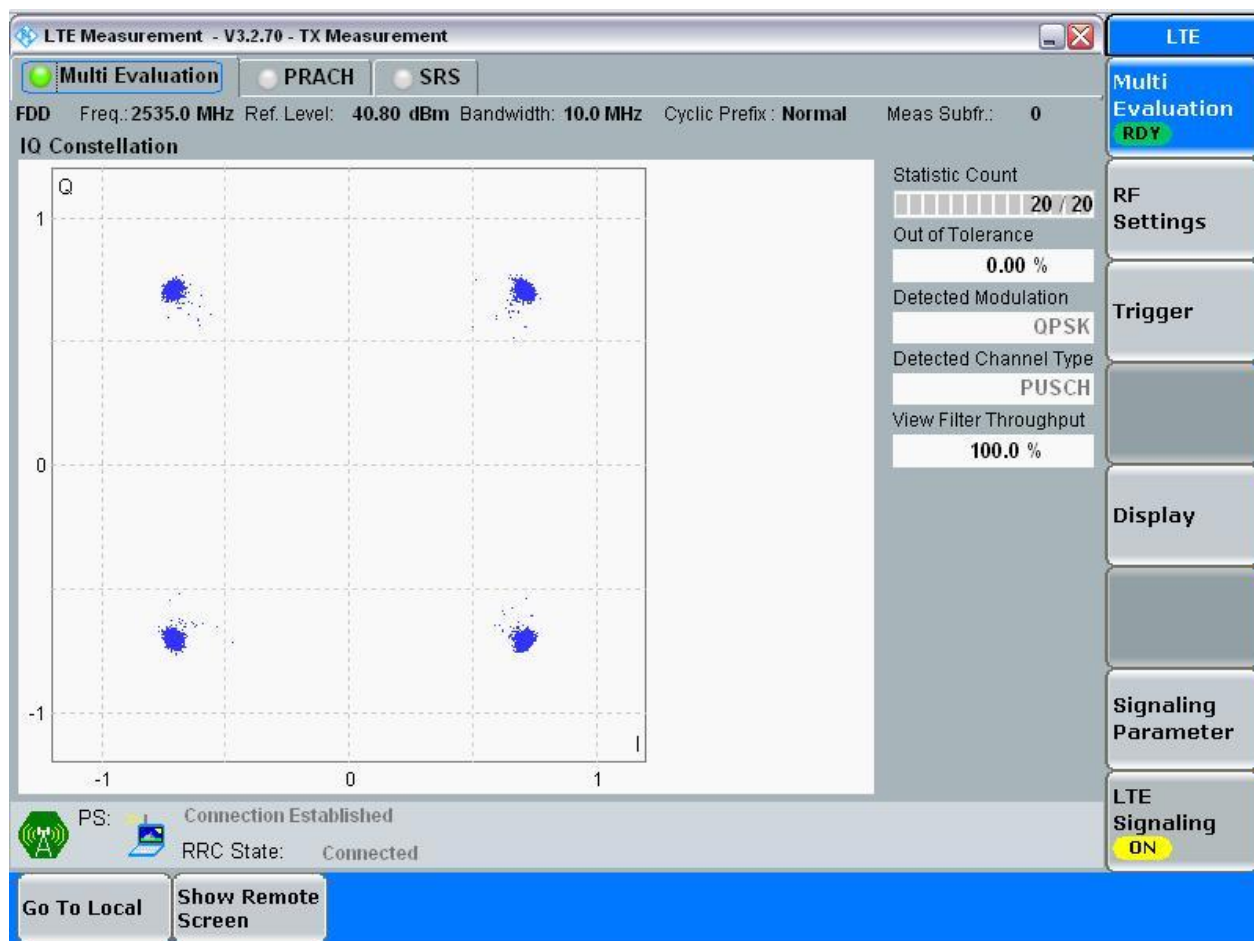
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

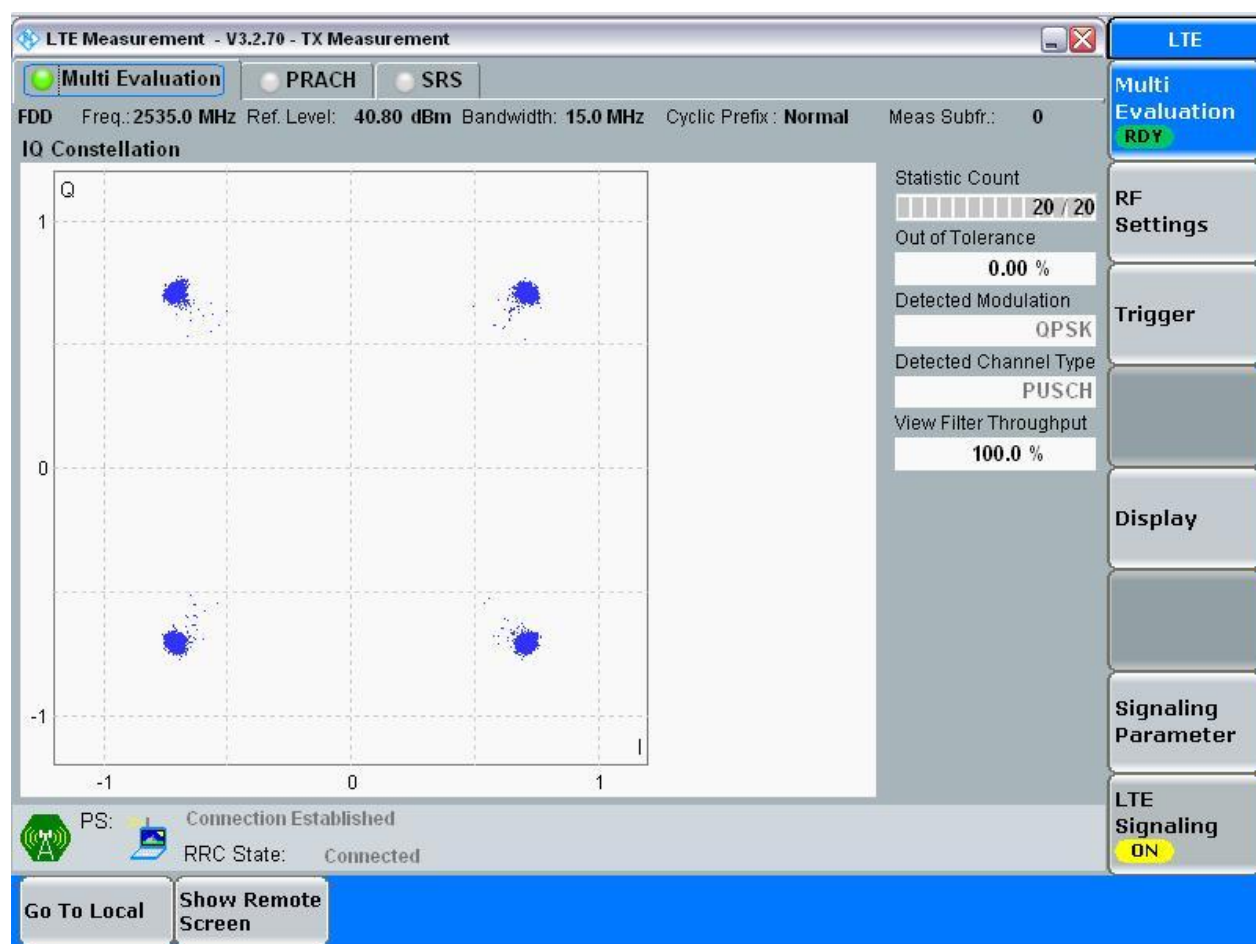
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

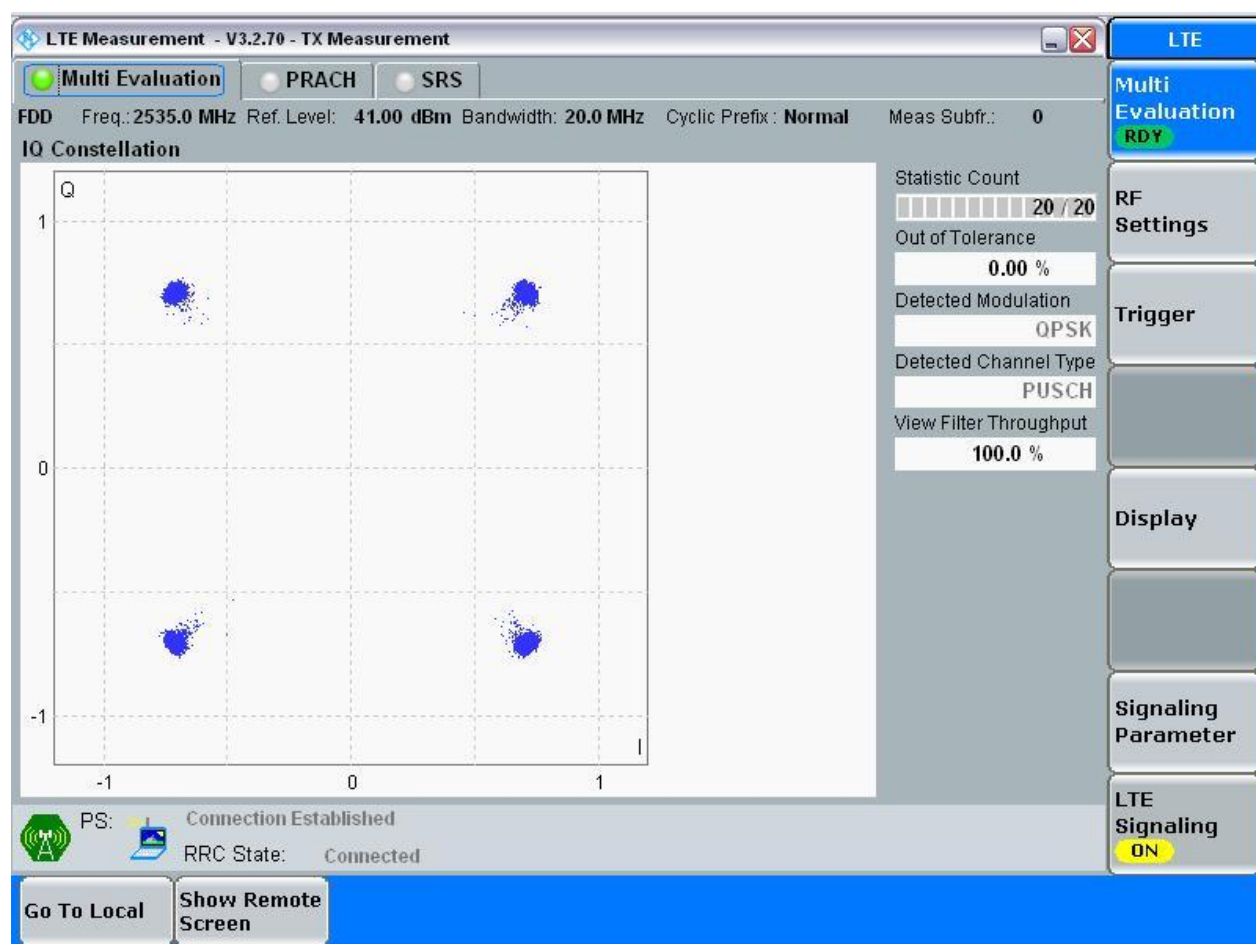
3.1.1.1.3.1.1 Test RB = RB75#0



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

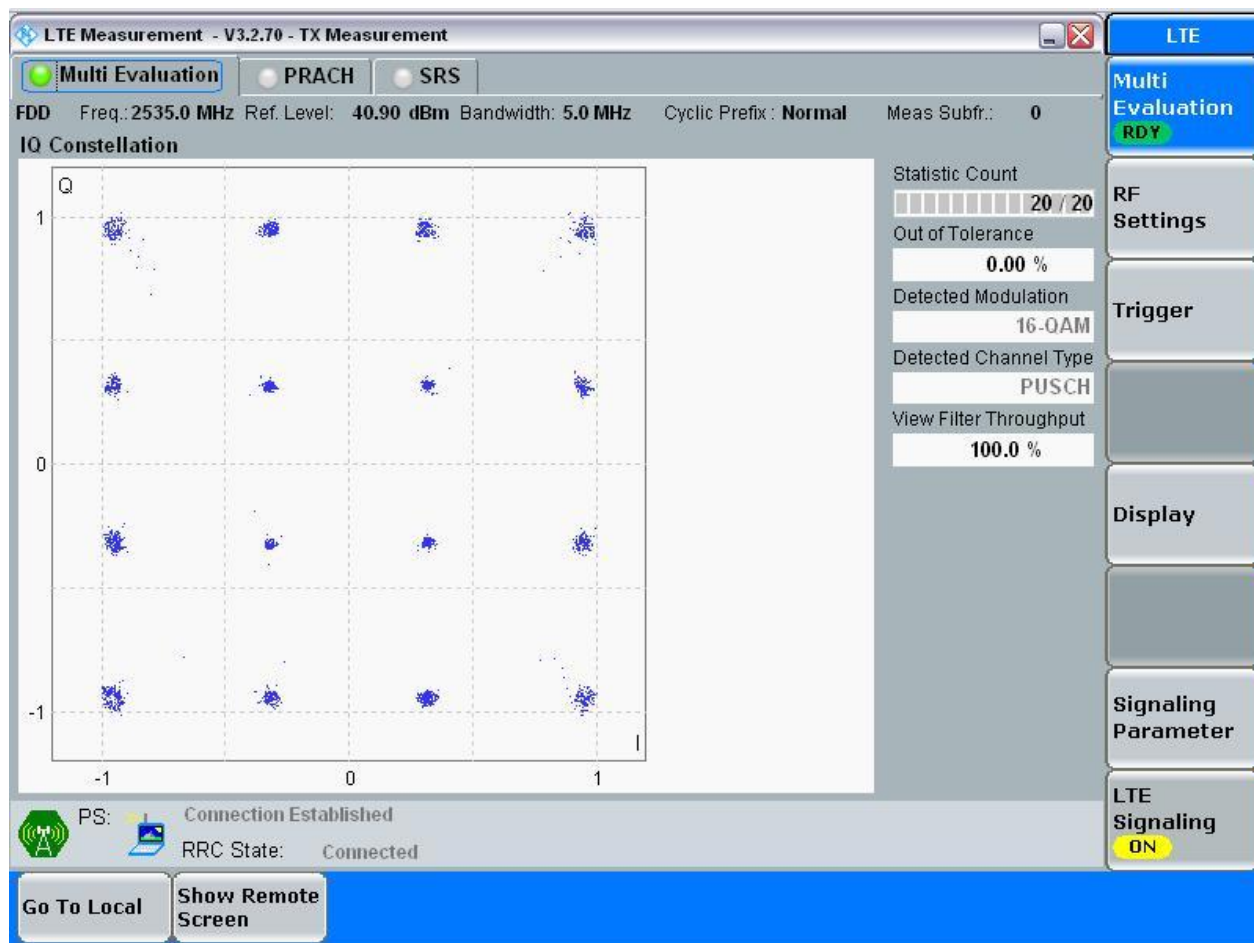


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

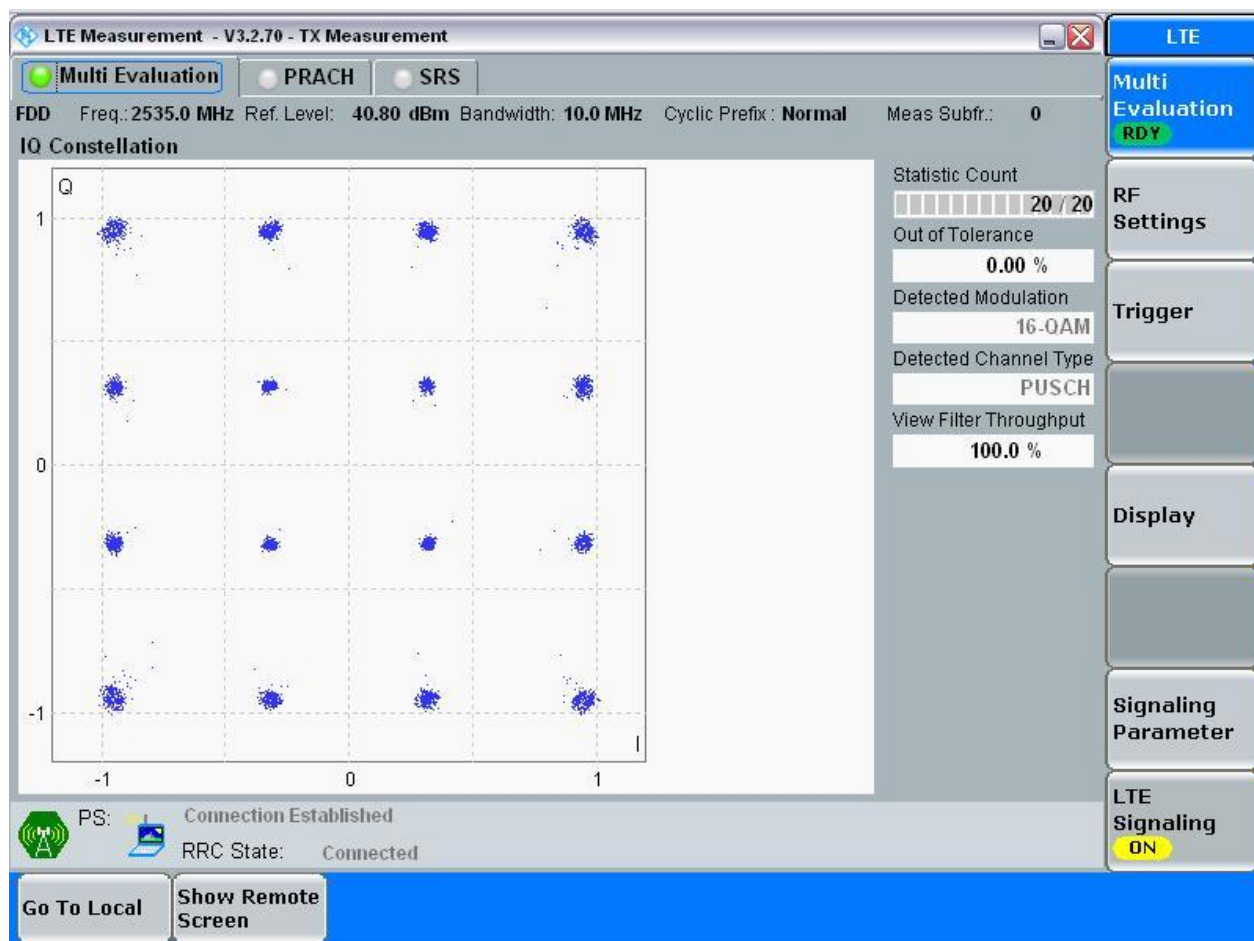
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

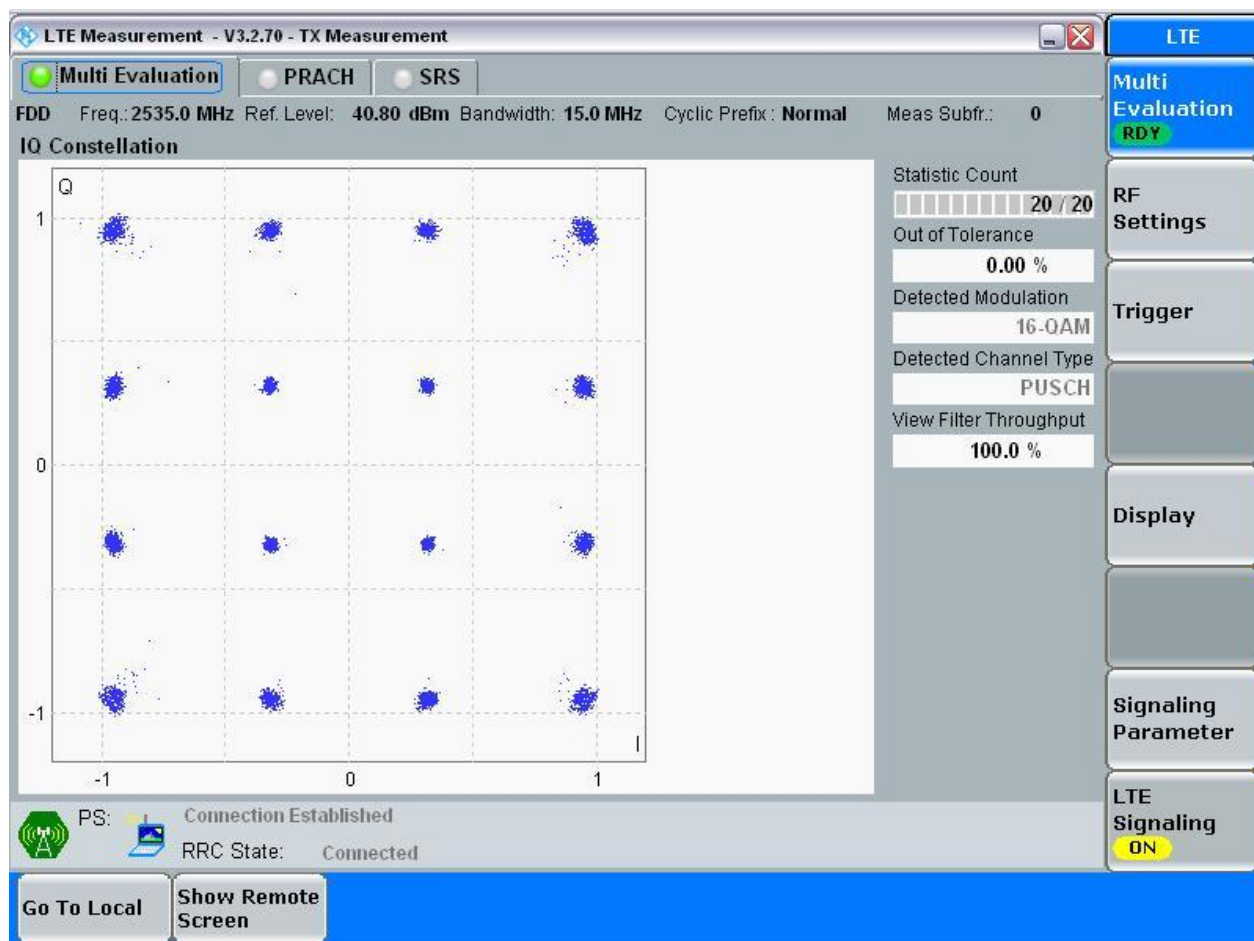
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

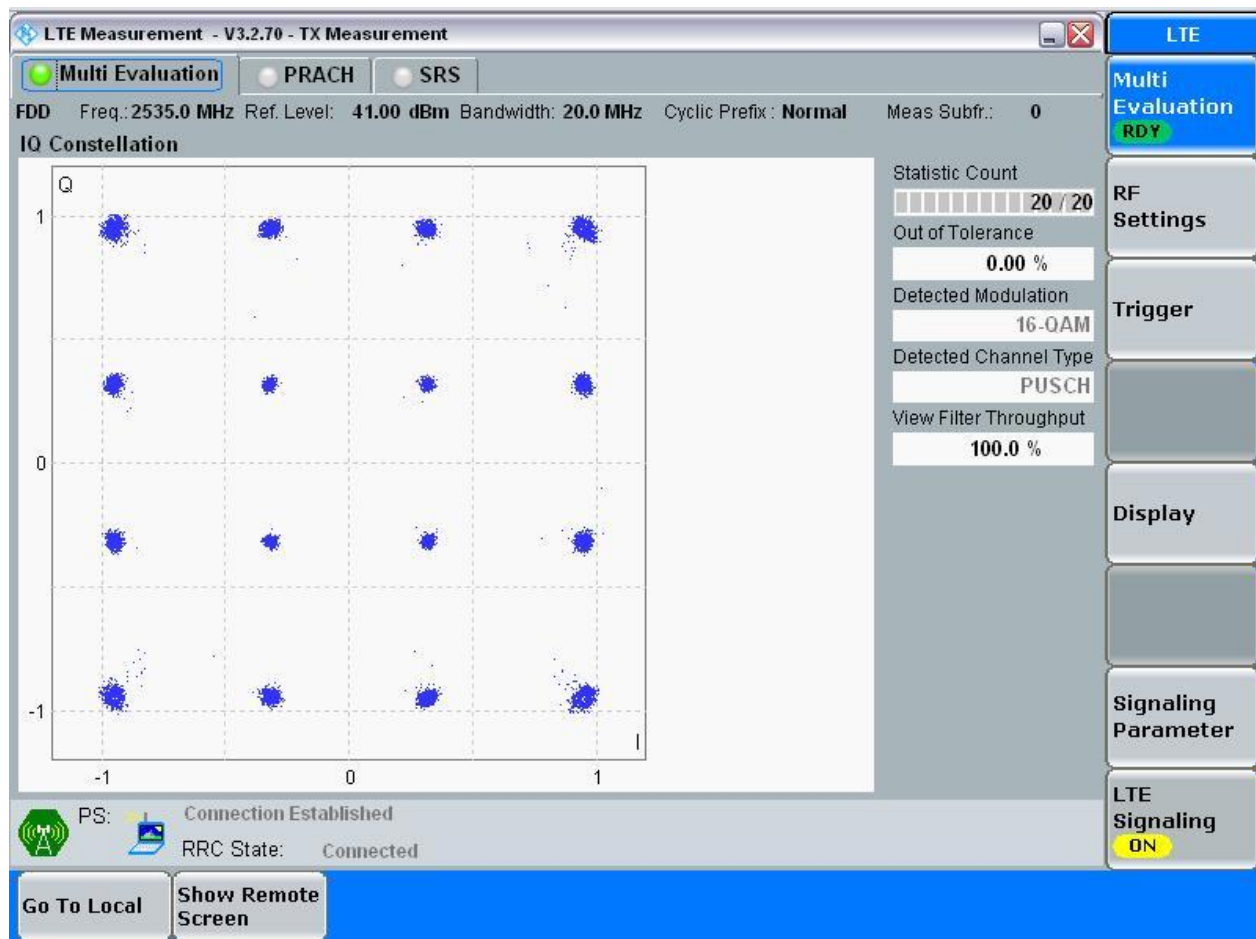
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.51	5.00	Pass
			MCH	RB25#0	4.51	4.98	Pass
			HCH	RB25#0	4.50	5.00	Pass
		10	LCH	RB50#0	8.98	9.92	Pass
			MCH	RB50#0	8.98	9.93	Pass
			HCH	RB50#0	8.96	9.89	Pass
		15	LCH	RB75#0	13.46	14.83	Pass
			MCH	RB75#0	13.46	14.84	Pass
			HCH	RB75#0	13.45	14.74	Pass
		20	LCH	RB100#0	17.92	19.41	Pass
			MCH	RB100#0	17.92	19.43	Pass
			HCH	RB100#0	17.92	19.59	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	5.01	Pass
			MCH	RB25#0	4.51	5.01	Pass
			HCH	RB25#0	4.51	5.04	Pass
		10	LCH	RB50#0	8.98	9.93	Pass
			MCH	RB50#0	8.98	9.93	Pass
			HCH	RB50#0	8.99	9.90	Pass
		15	LCH	RB75#0	13.45	14.75	Pass
			MCH	RB75#0	13.45	14.76	Pass
			HCH	RB75#0	13.43	14.74	Pass
		20	LCH	RB100#0	17.90	19.44	Pass
			MCH	RB100#0	17.92	19.50	Pass
			HCH	RB100#0	17.89	19.53	Pass



Part II - Test Plots

4.1 For LTE

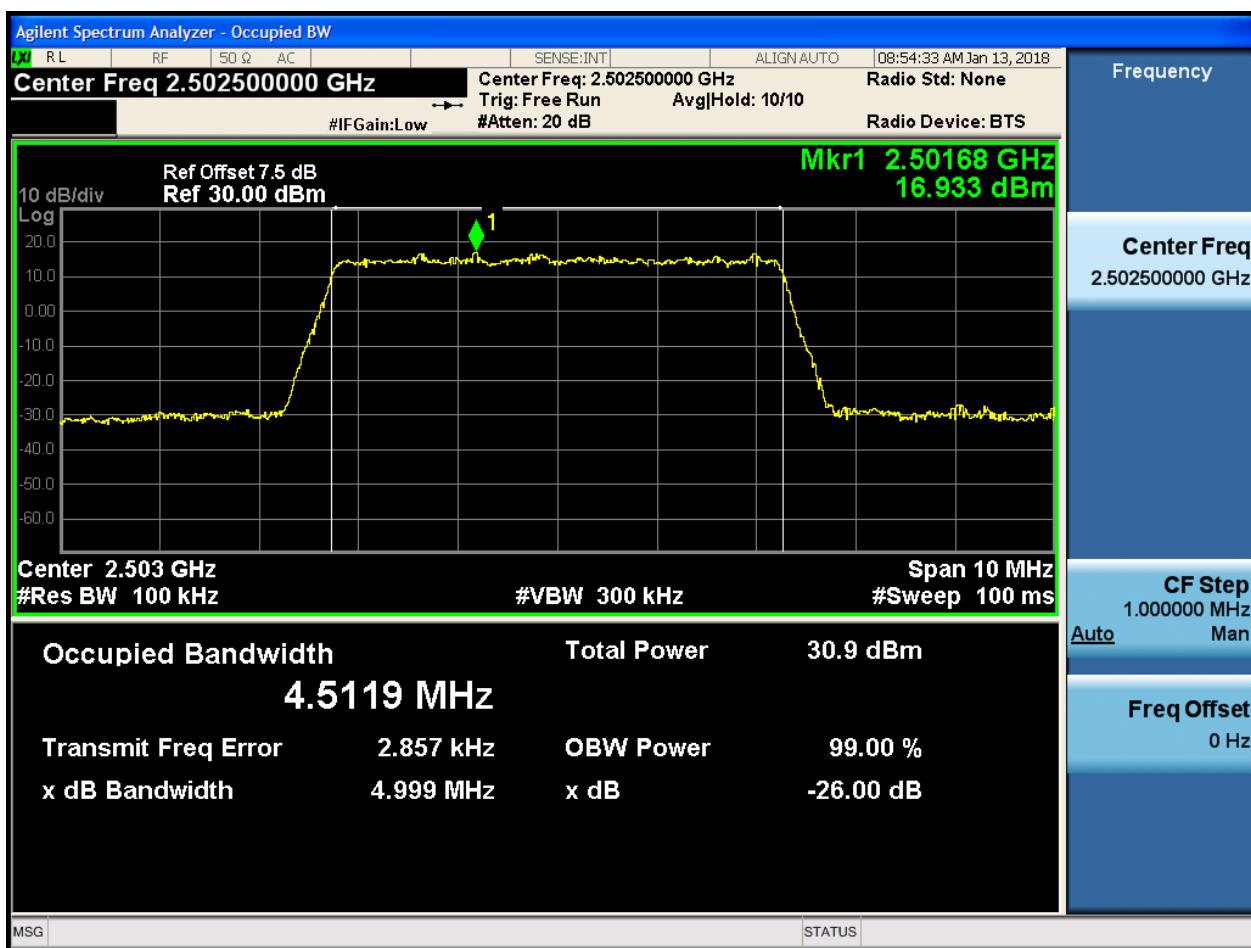
4.1.1 Test Band = BAND7

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

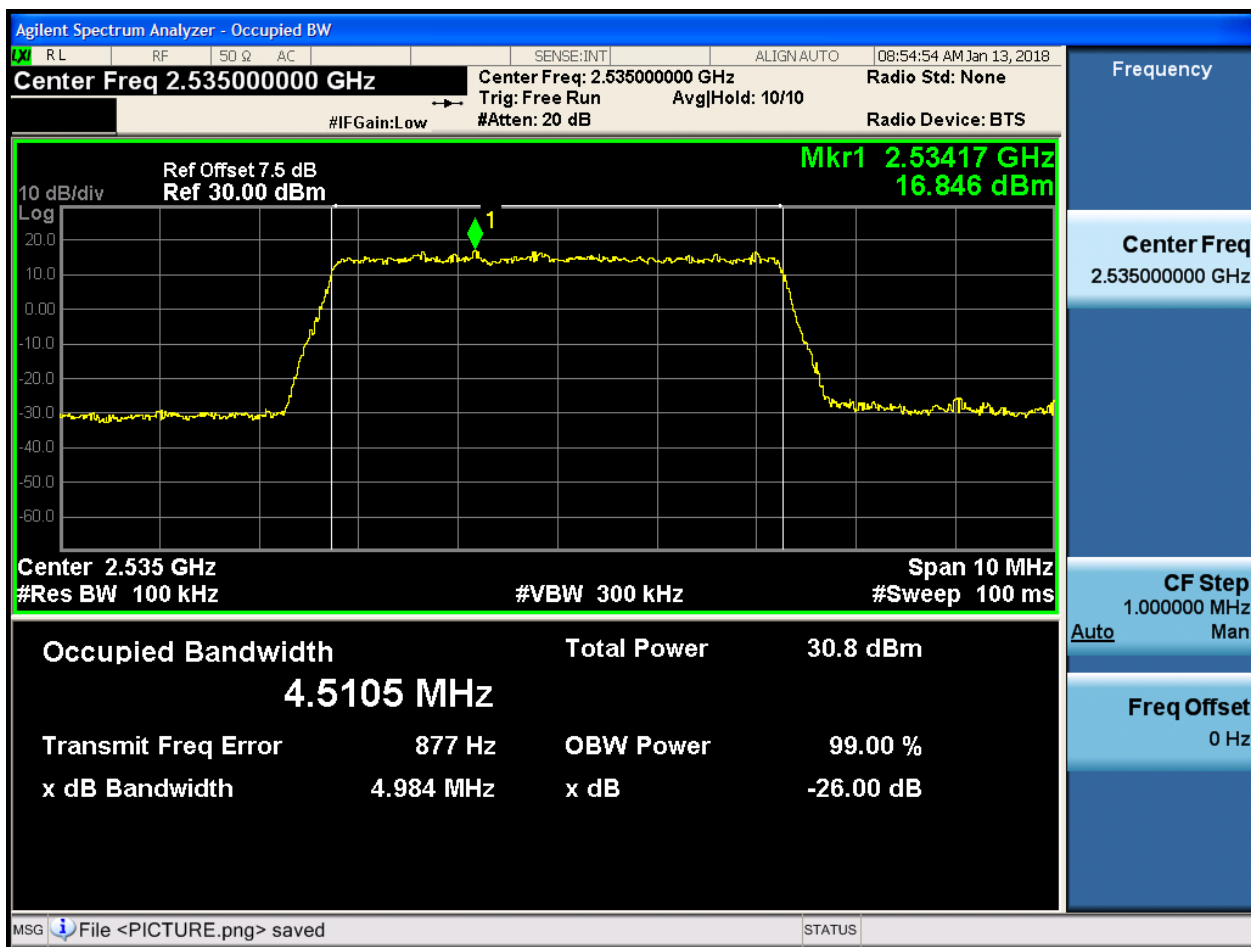
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

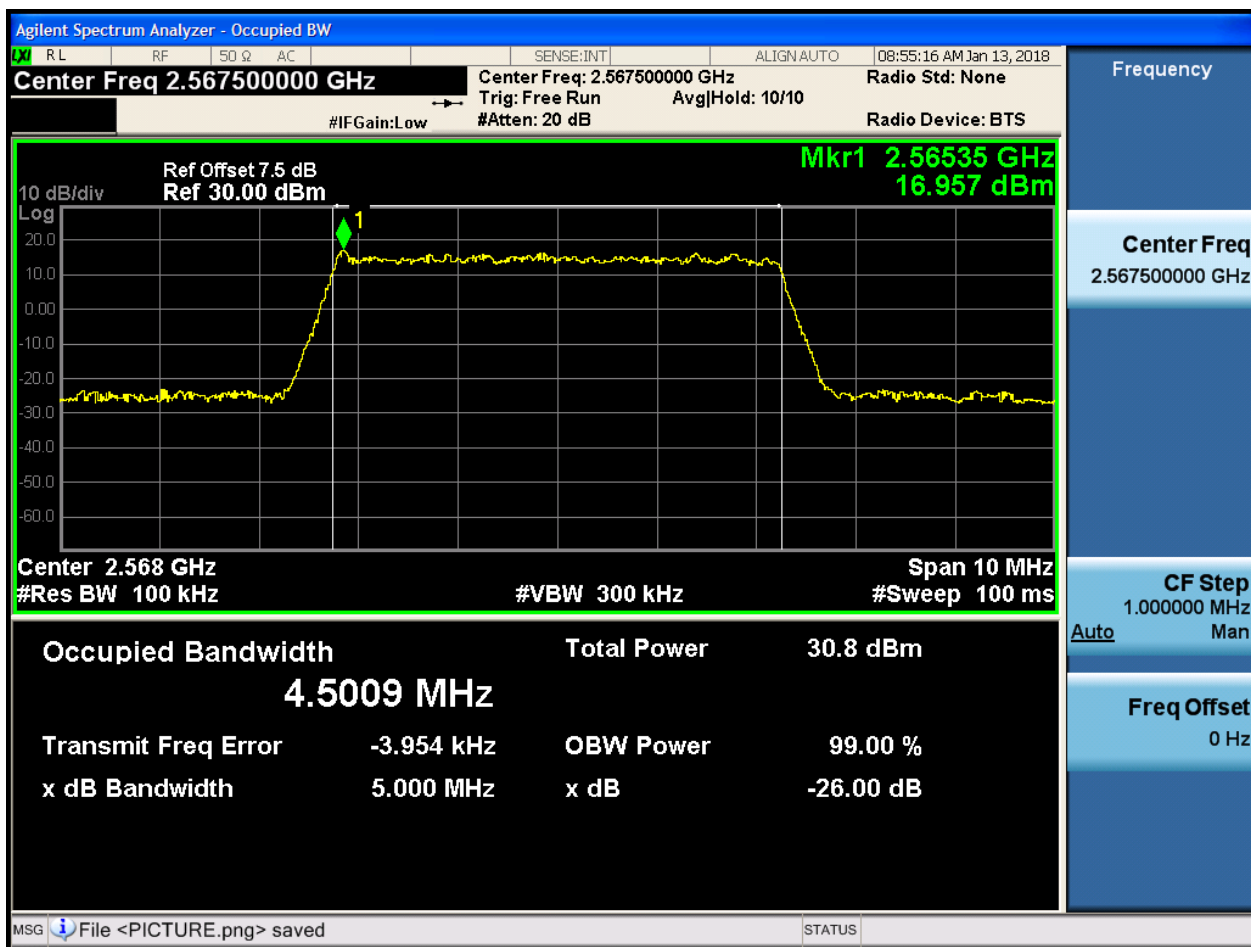
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

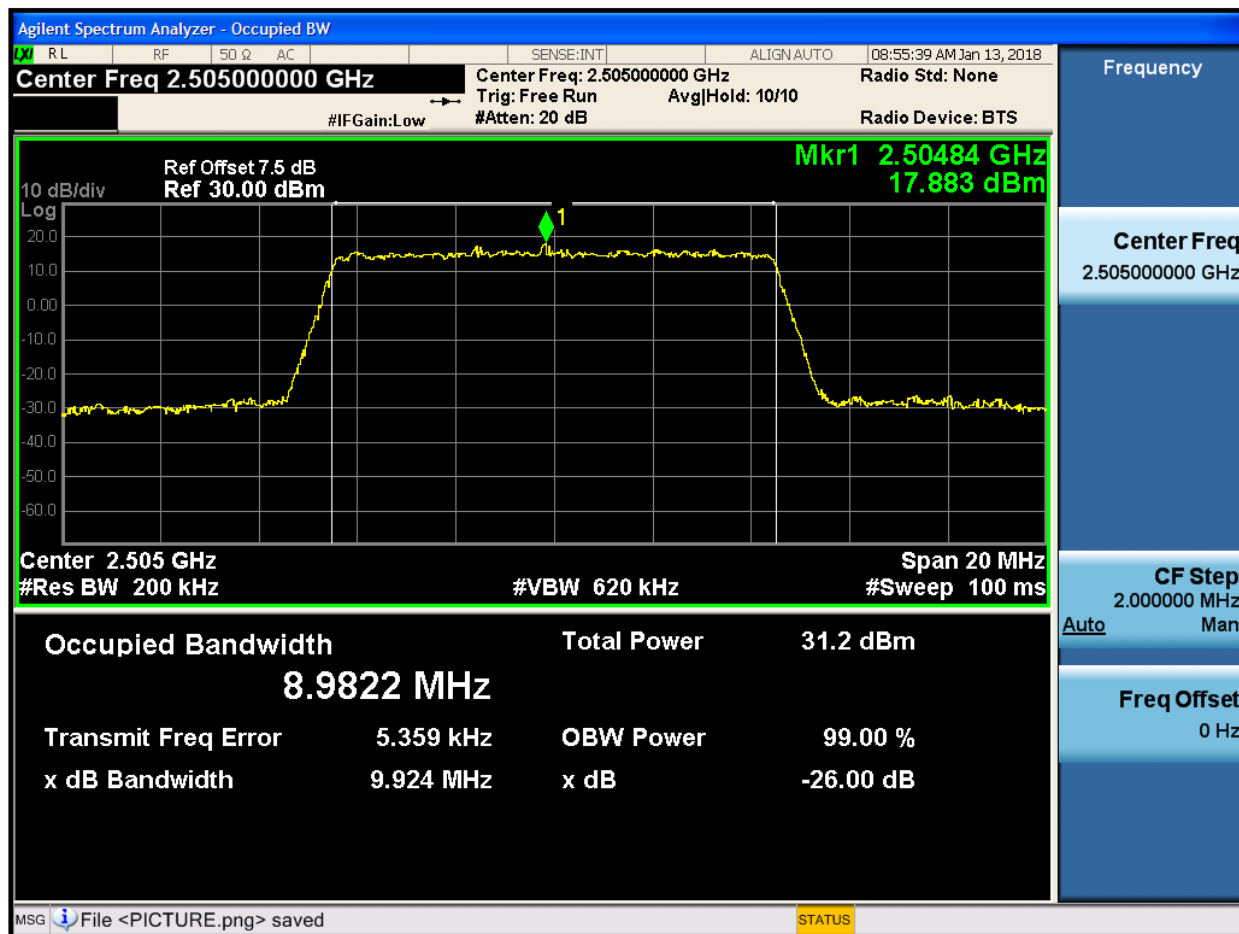




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

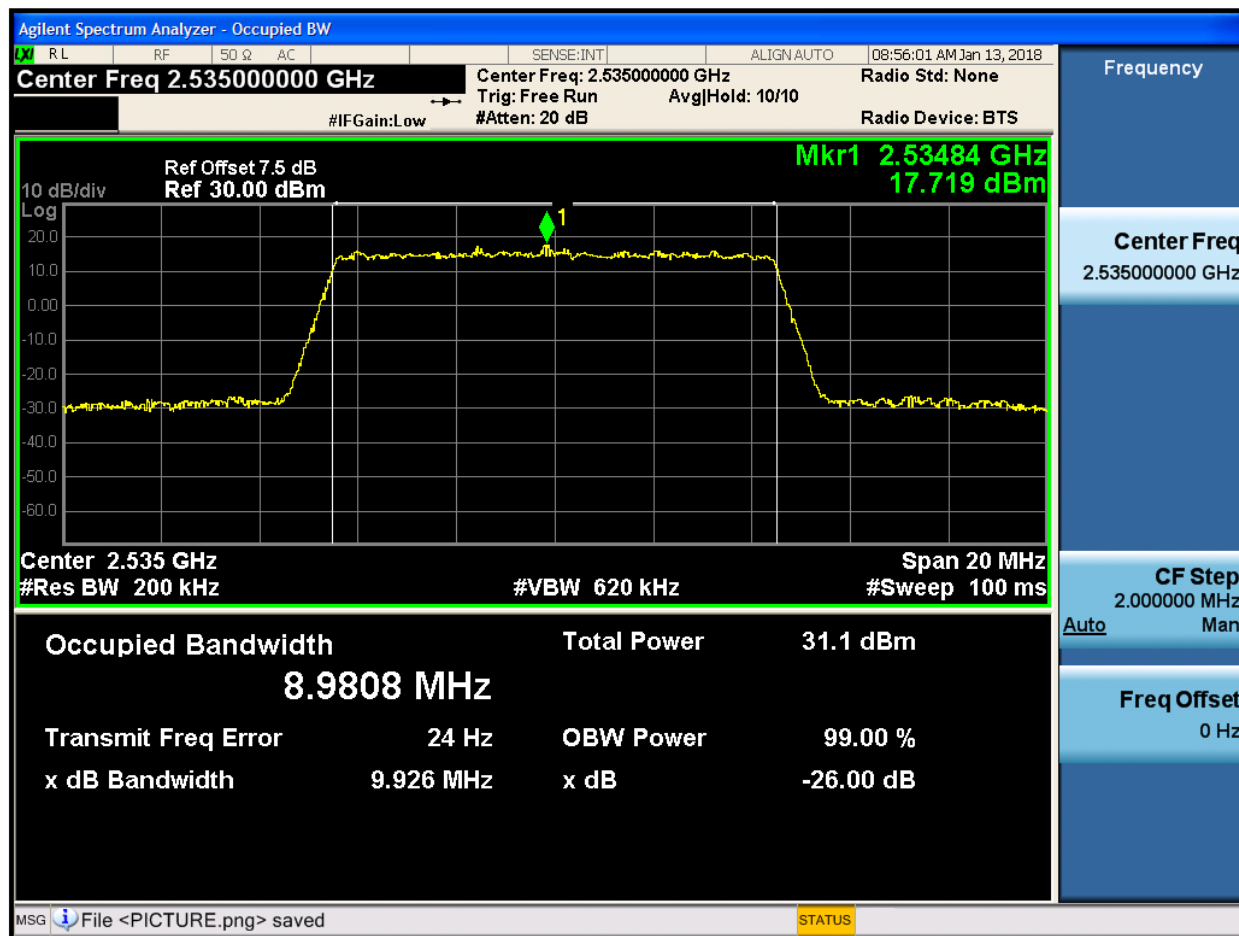
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

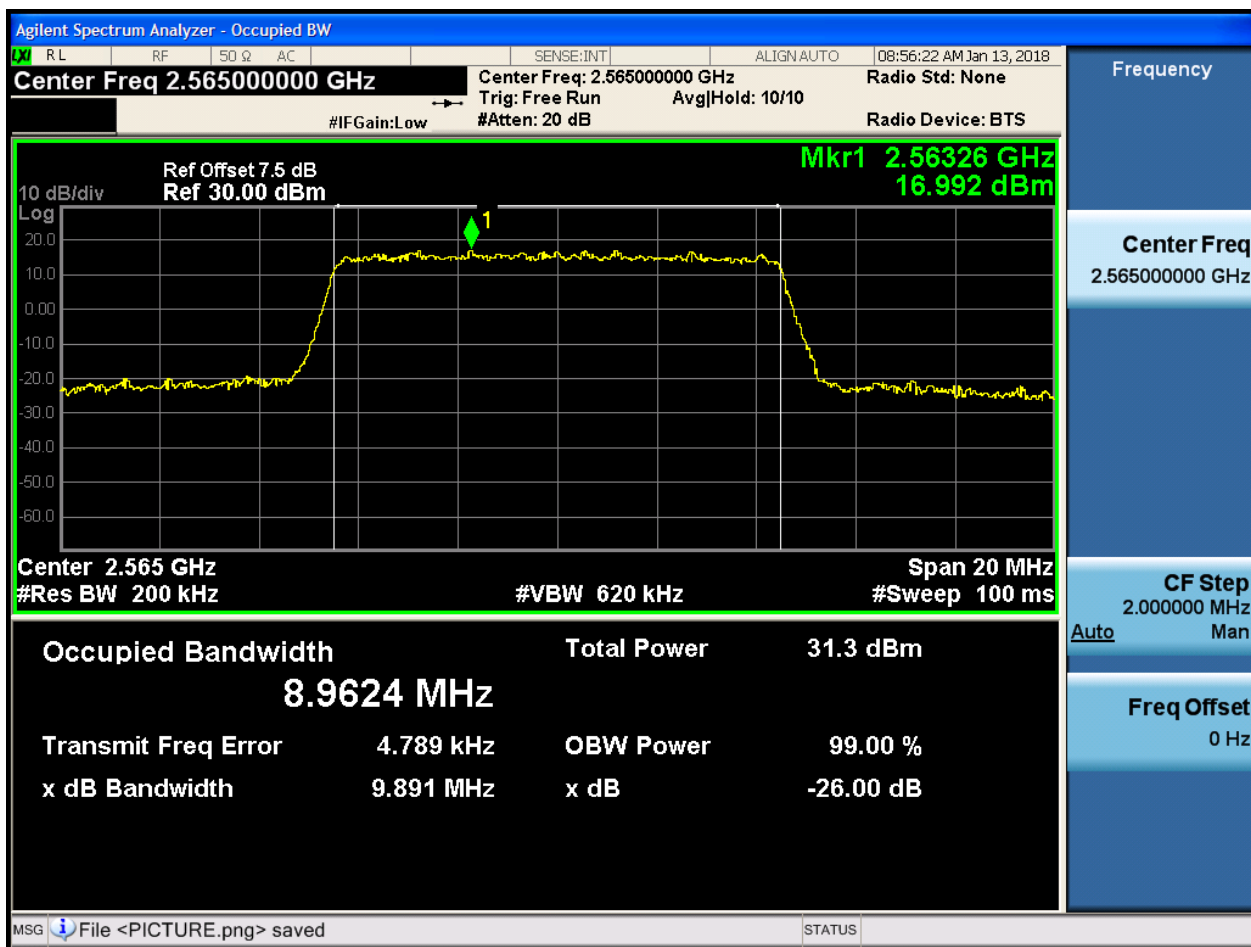
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

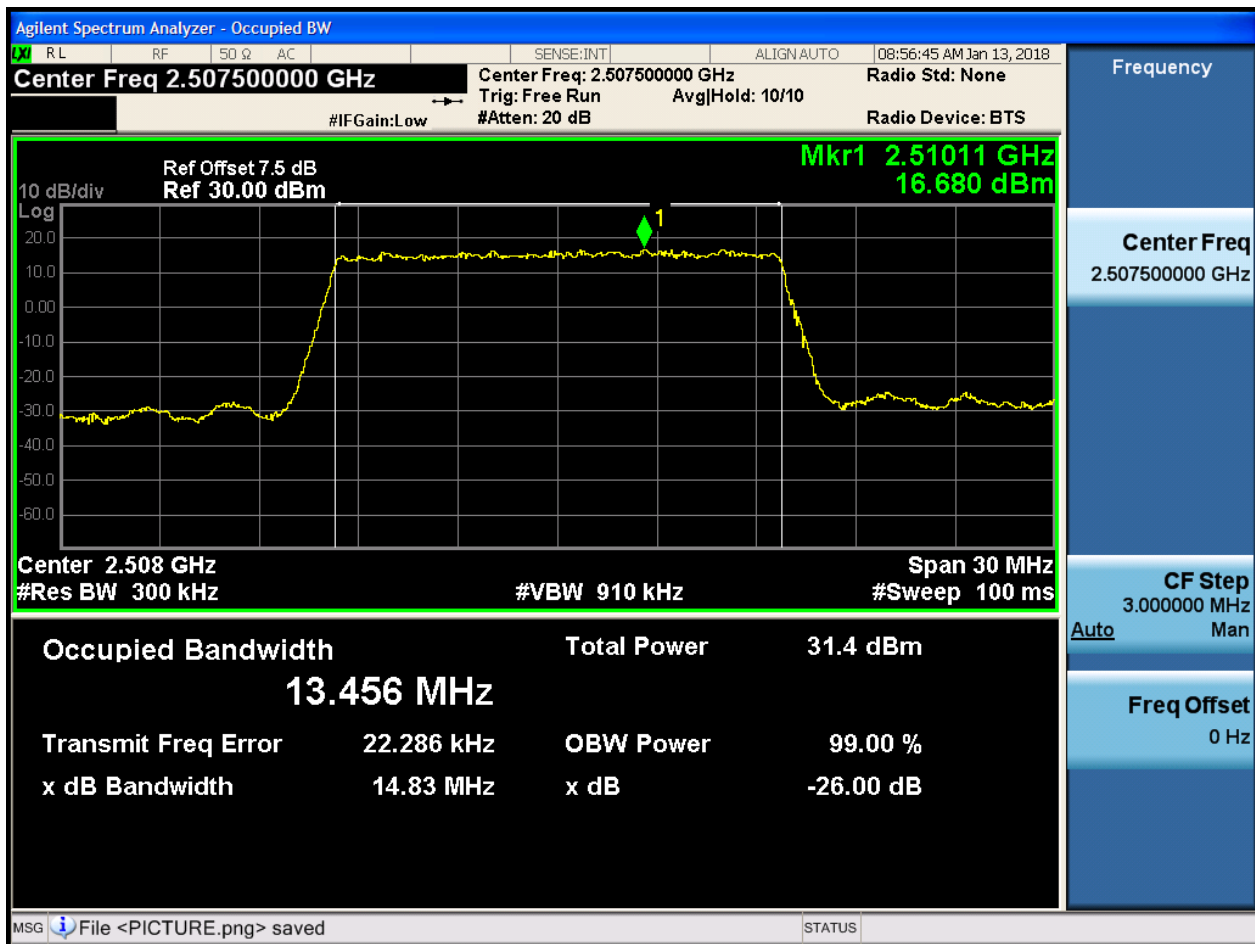




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

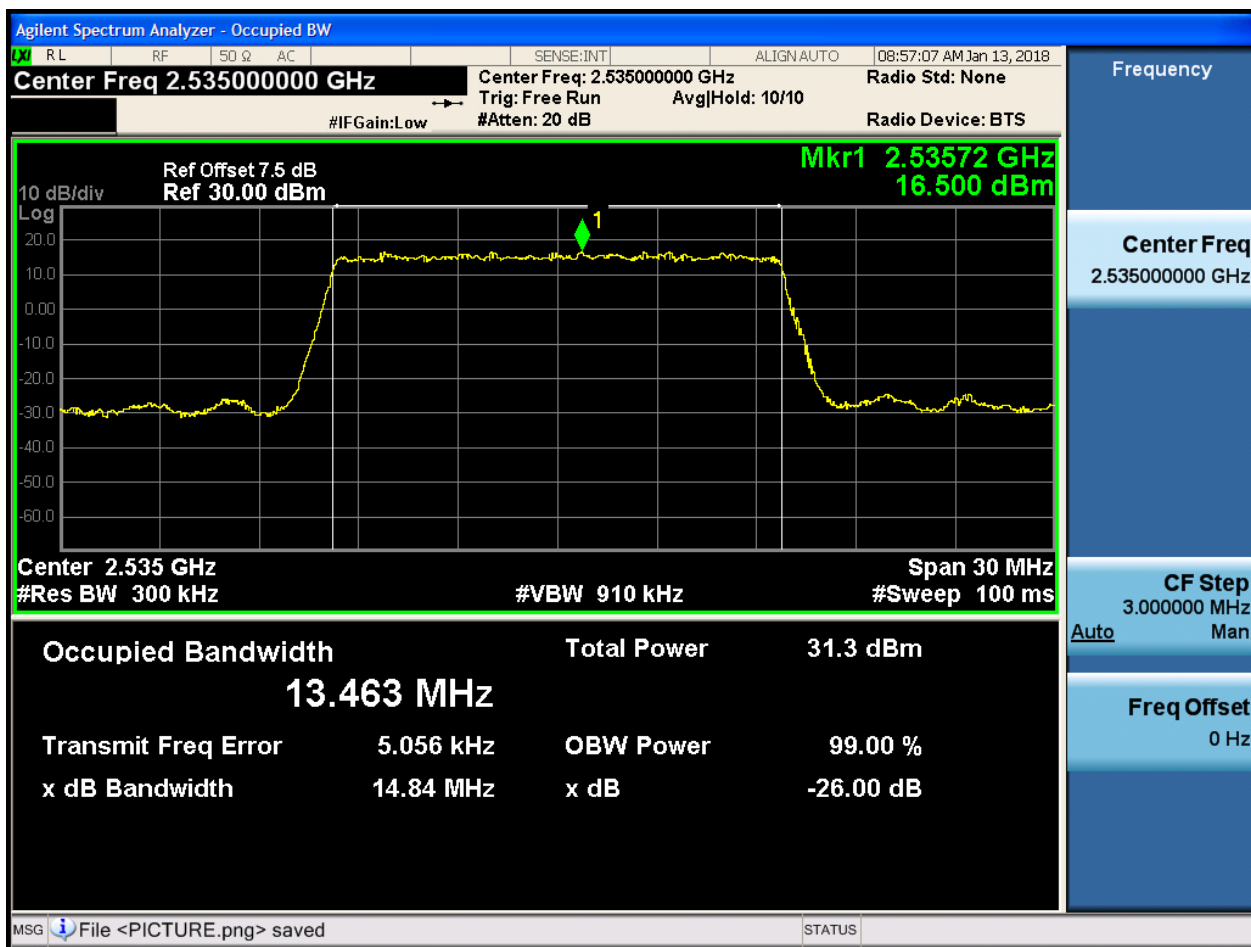
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

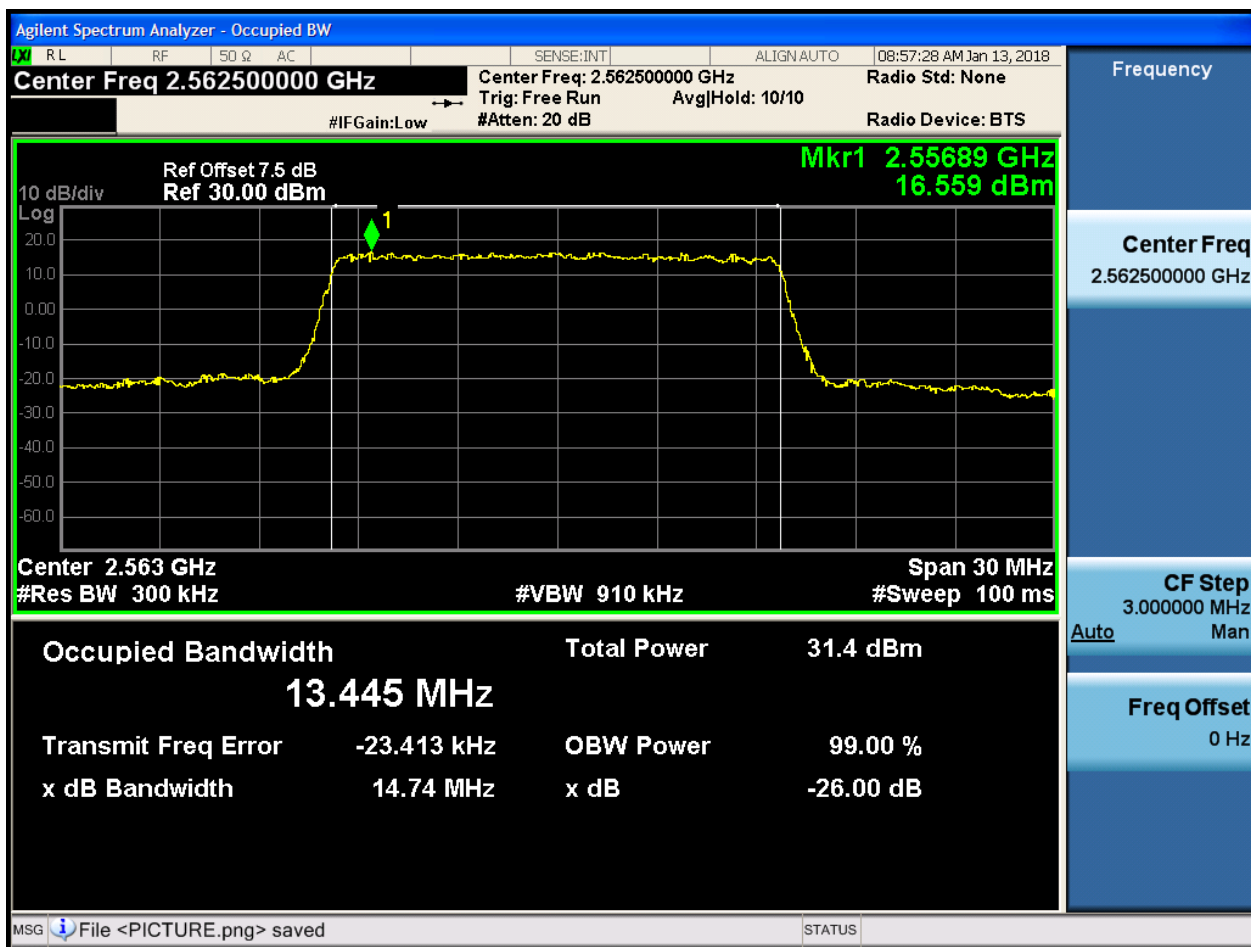
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

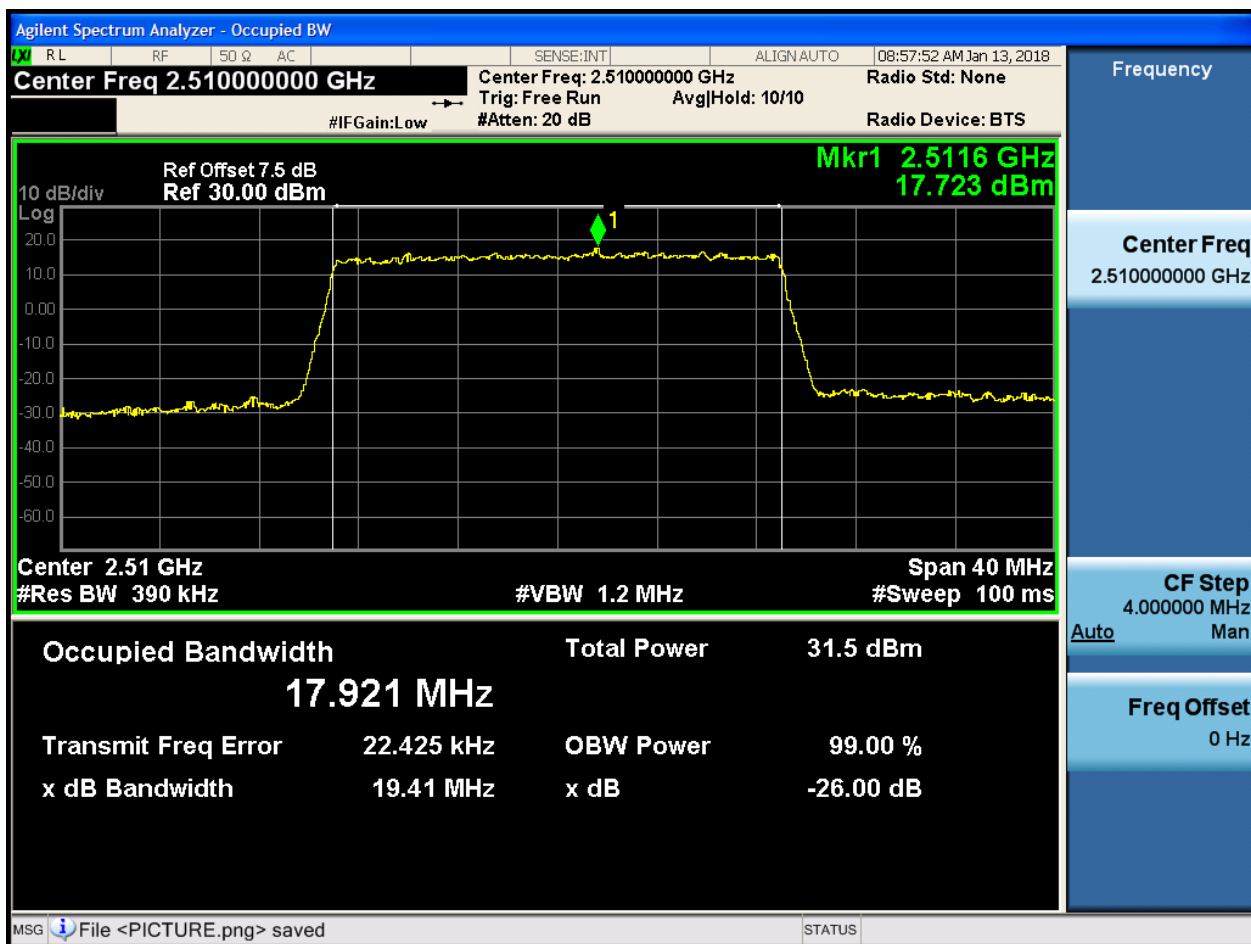




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

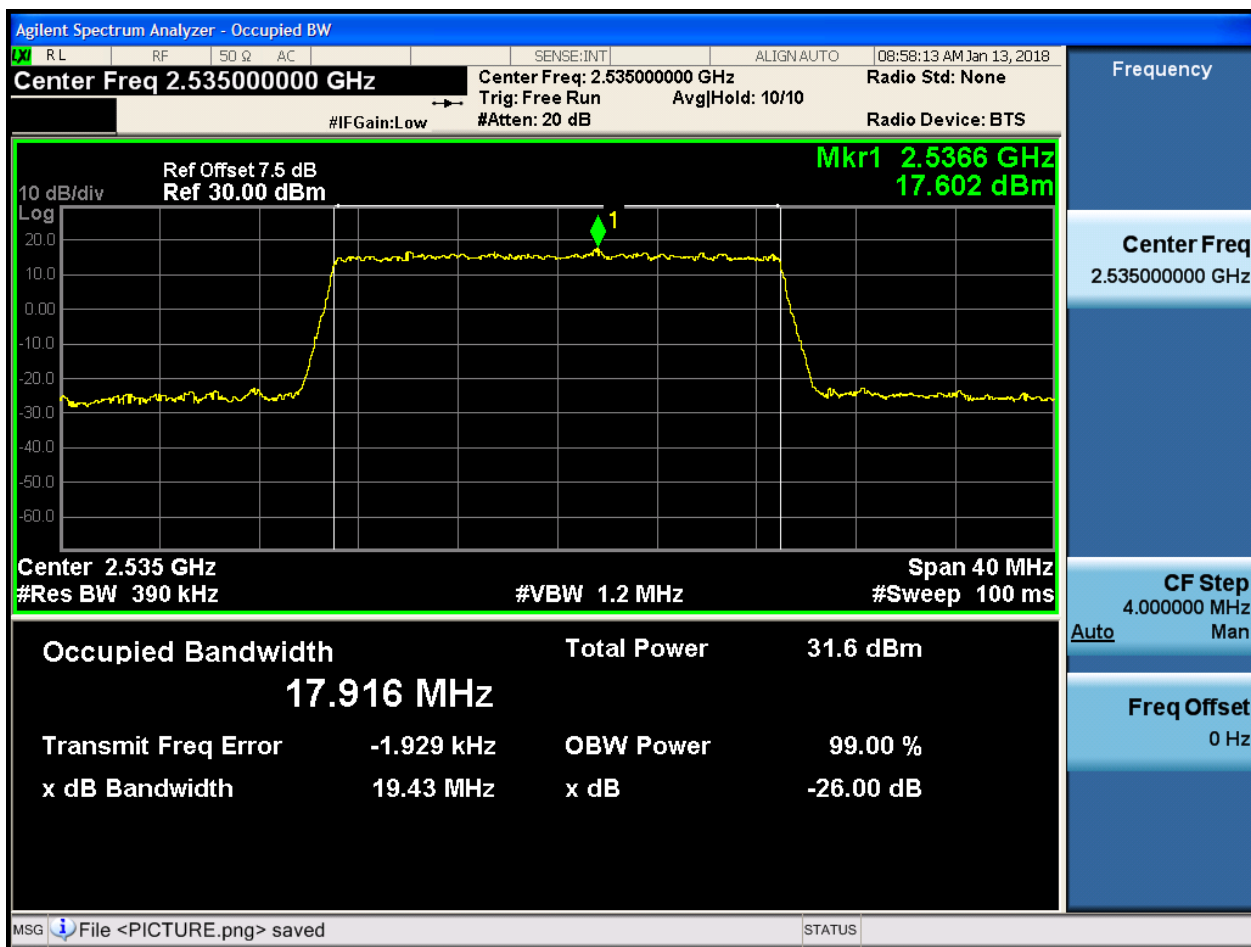
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

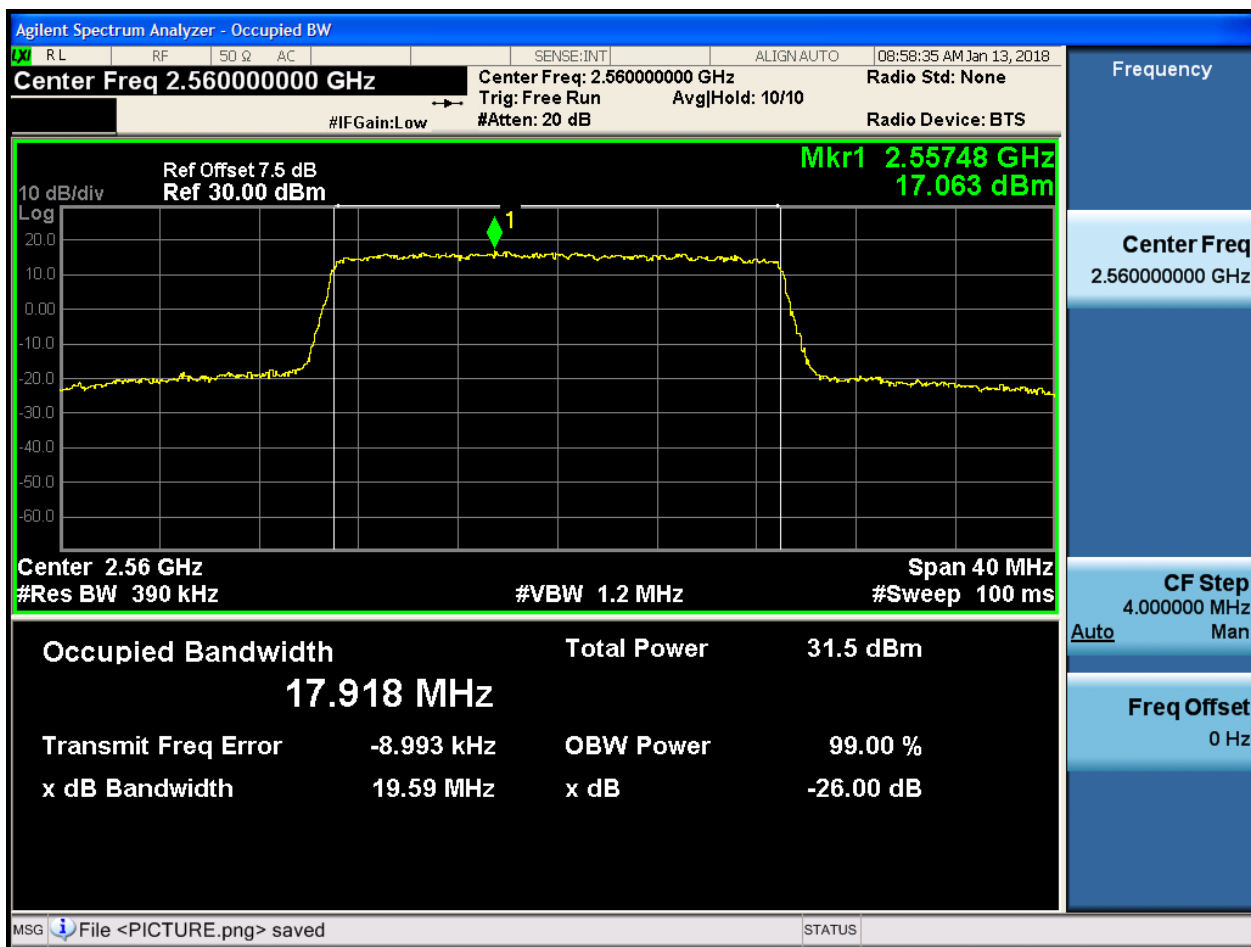
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



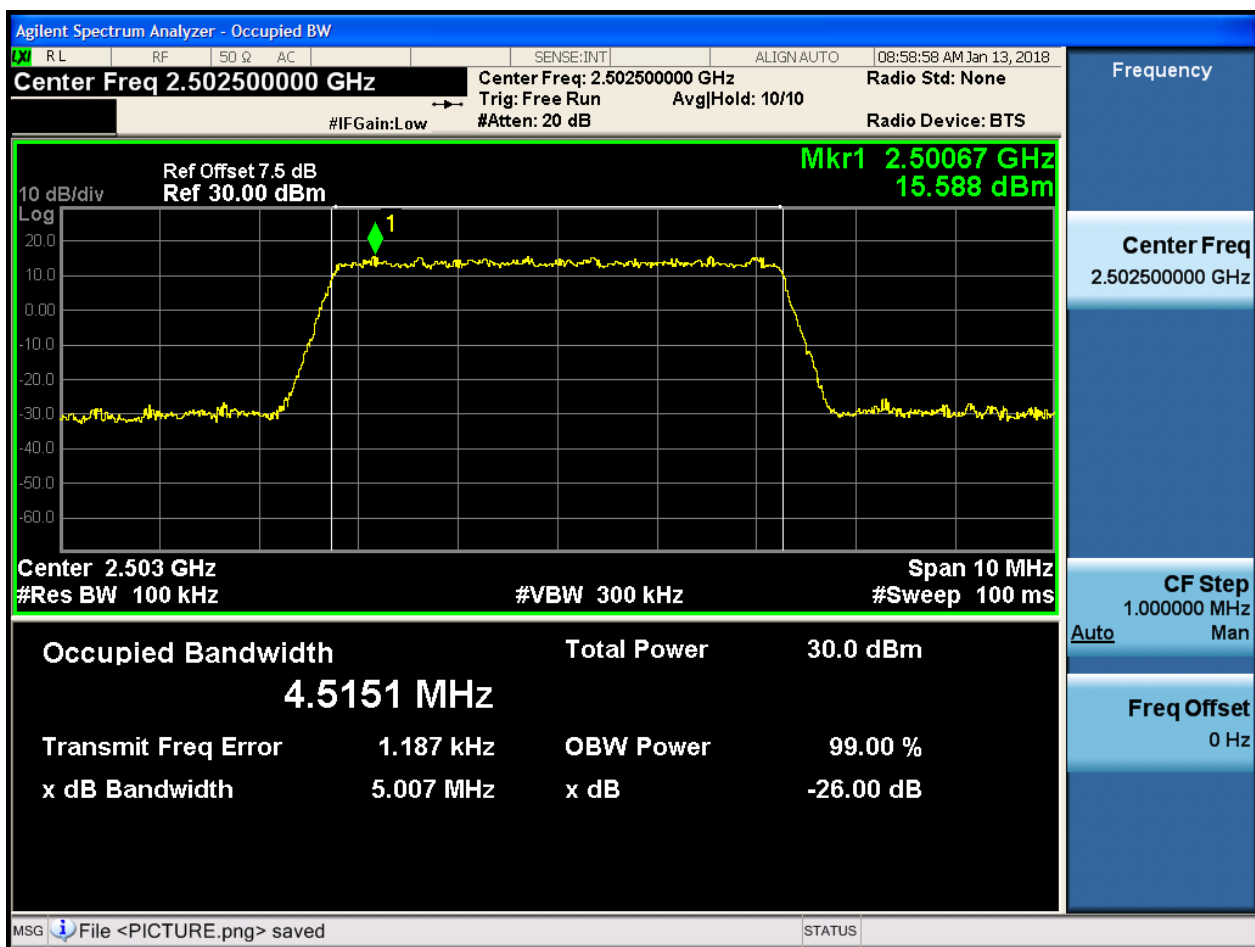


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

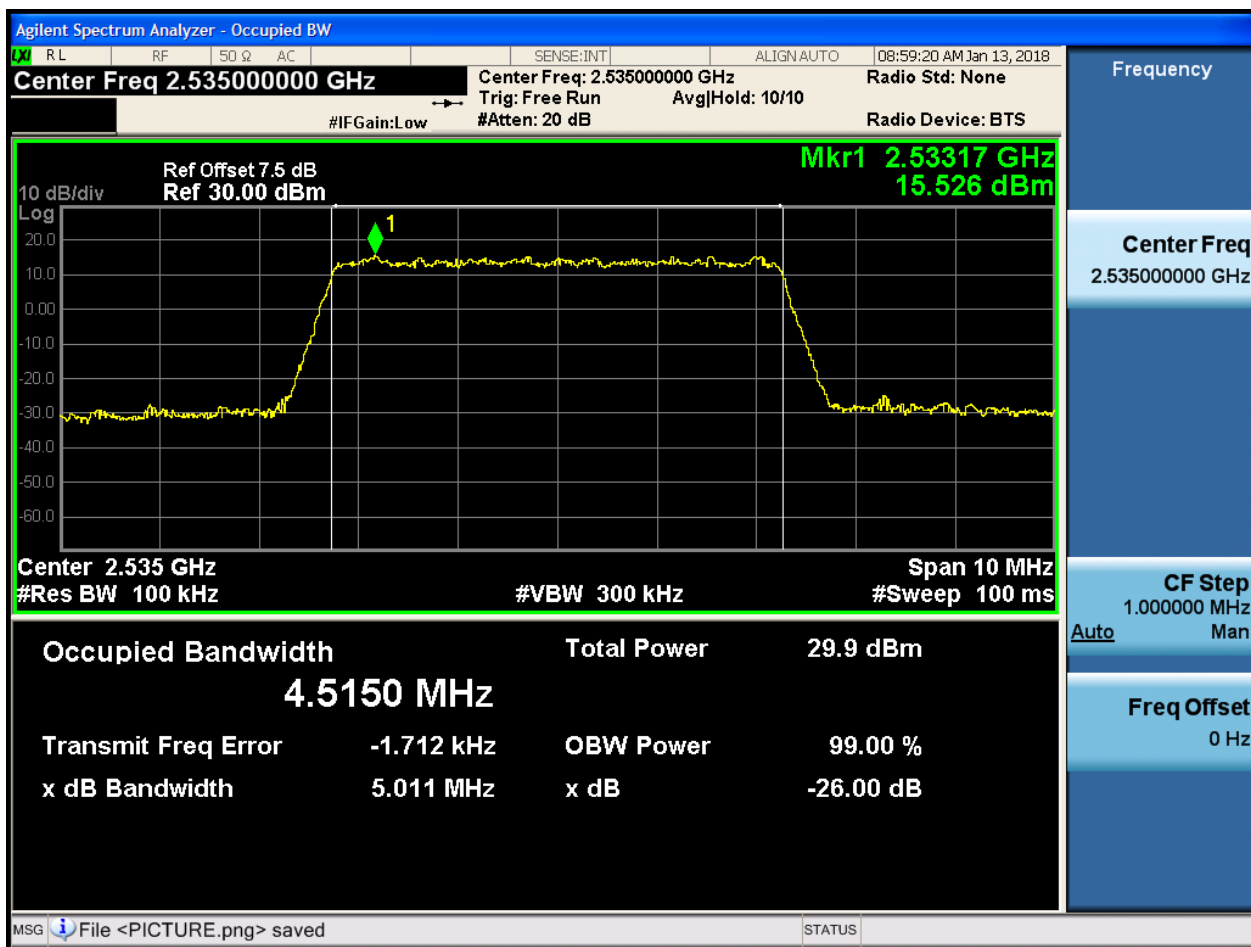
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

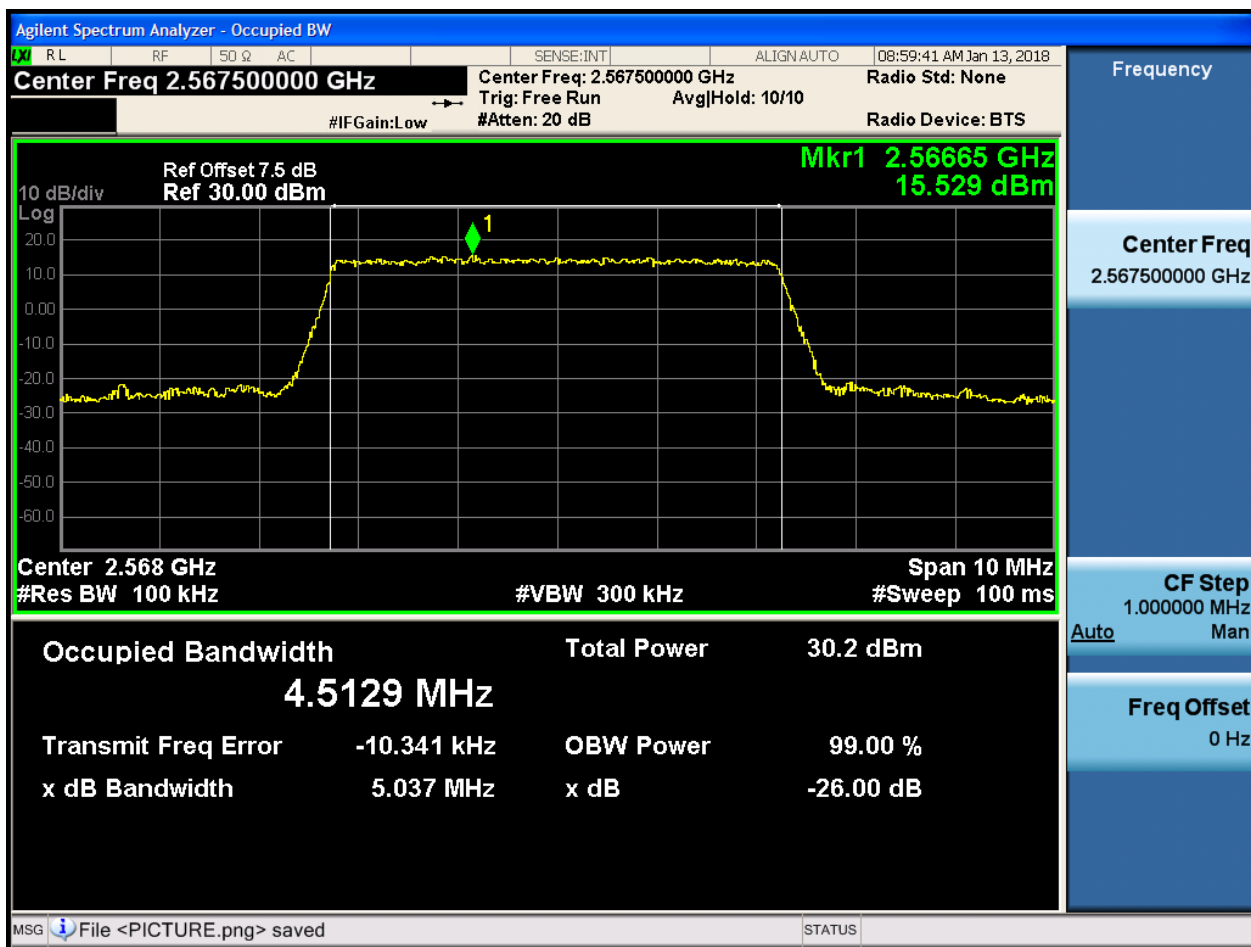
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

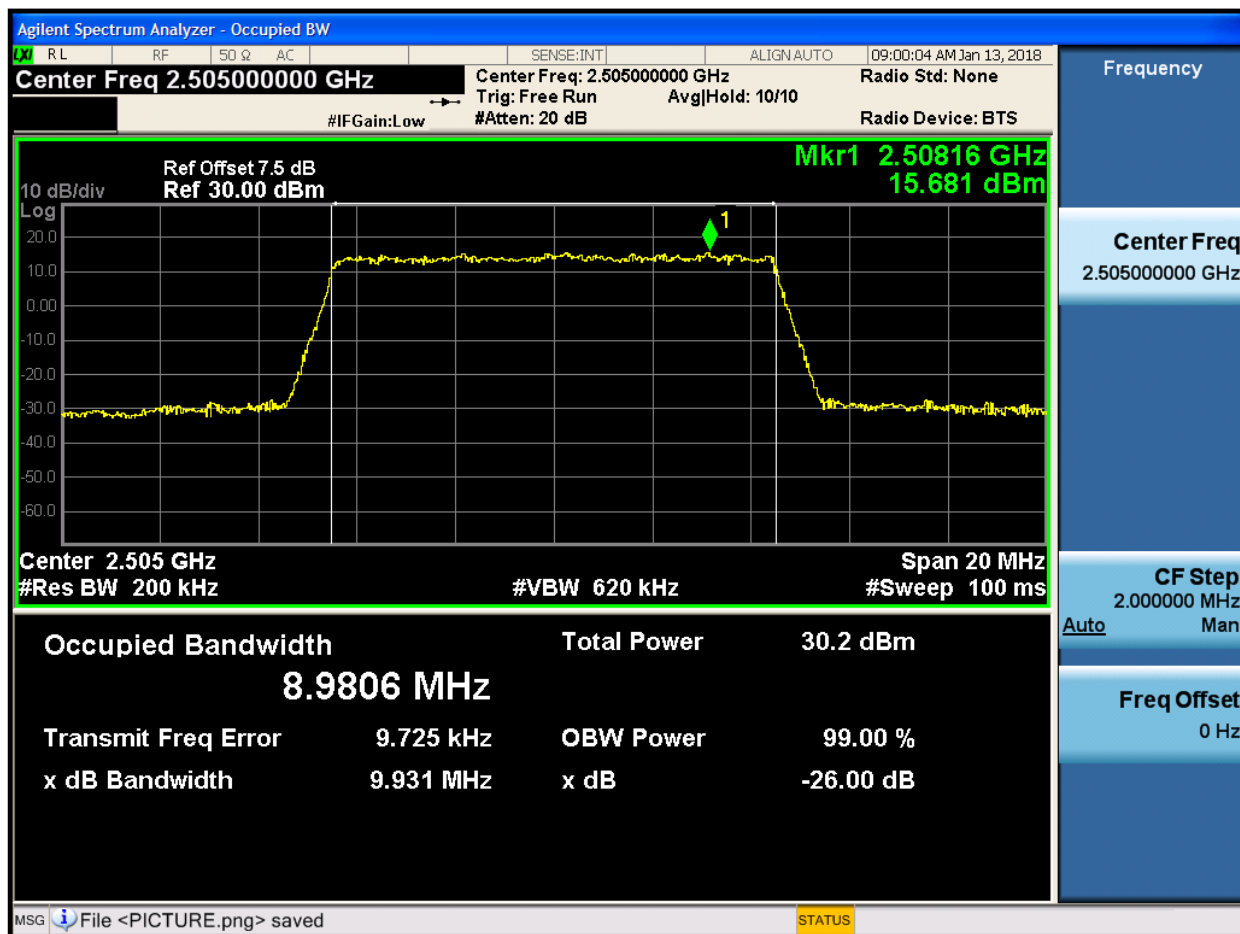




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

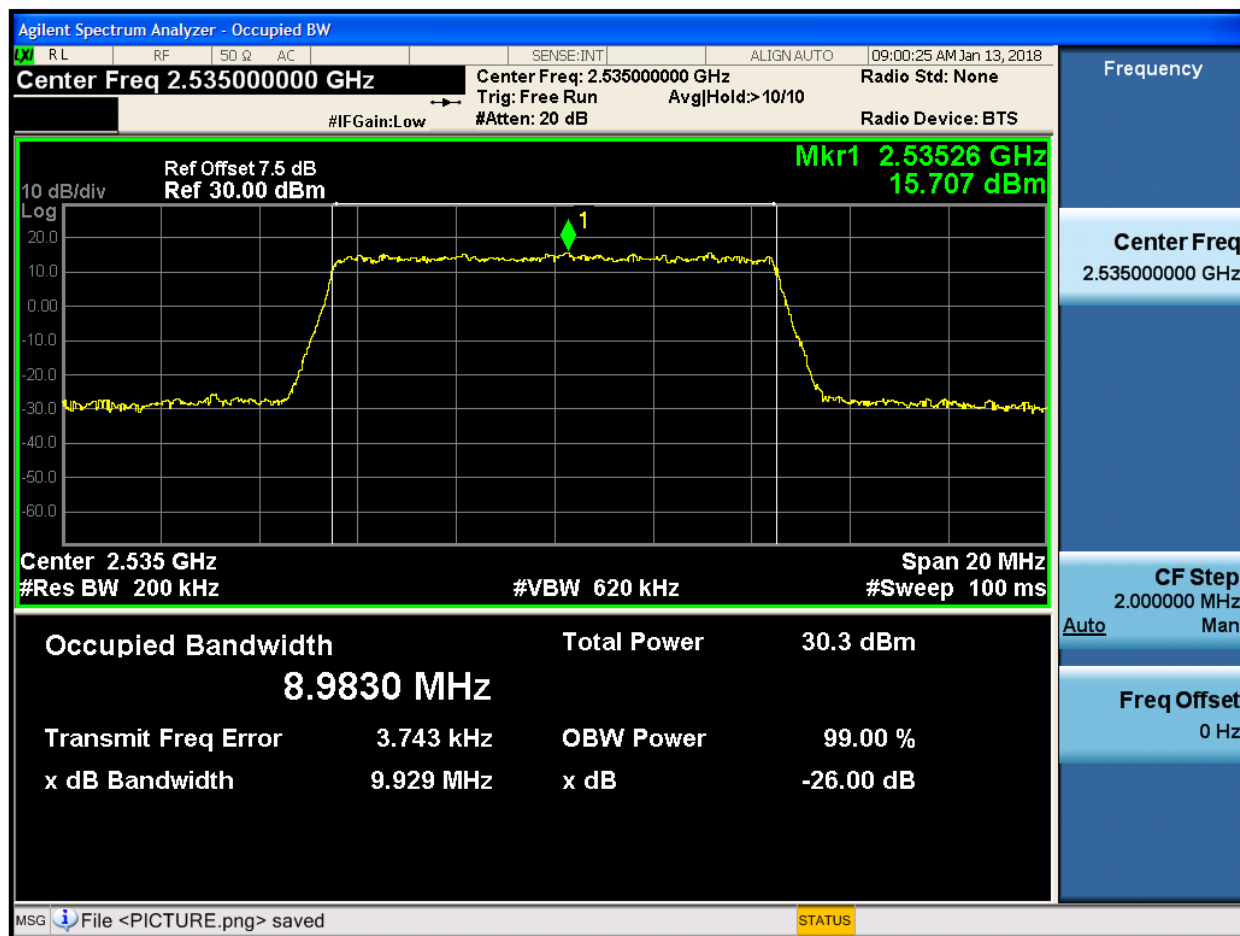
4.1.1.2.2.1.1 Test RB = RB50#0





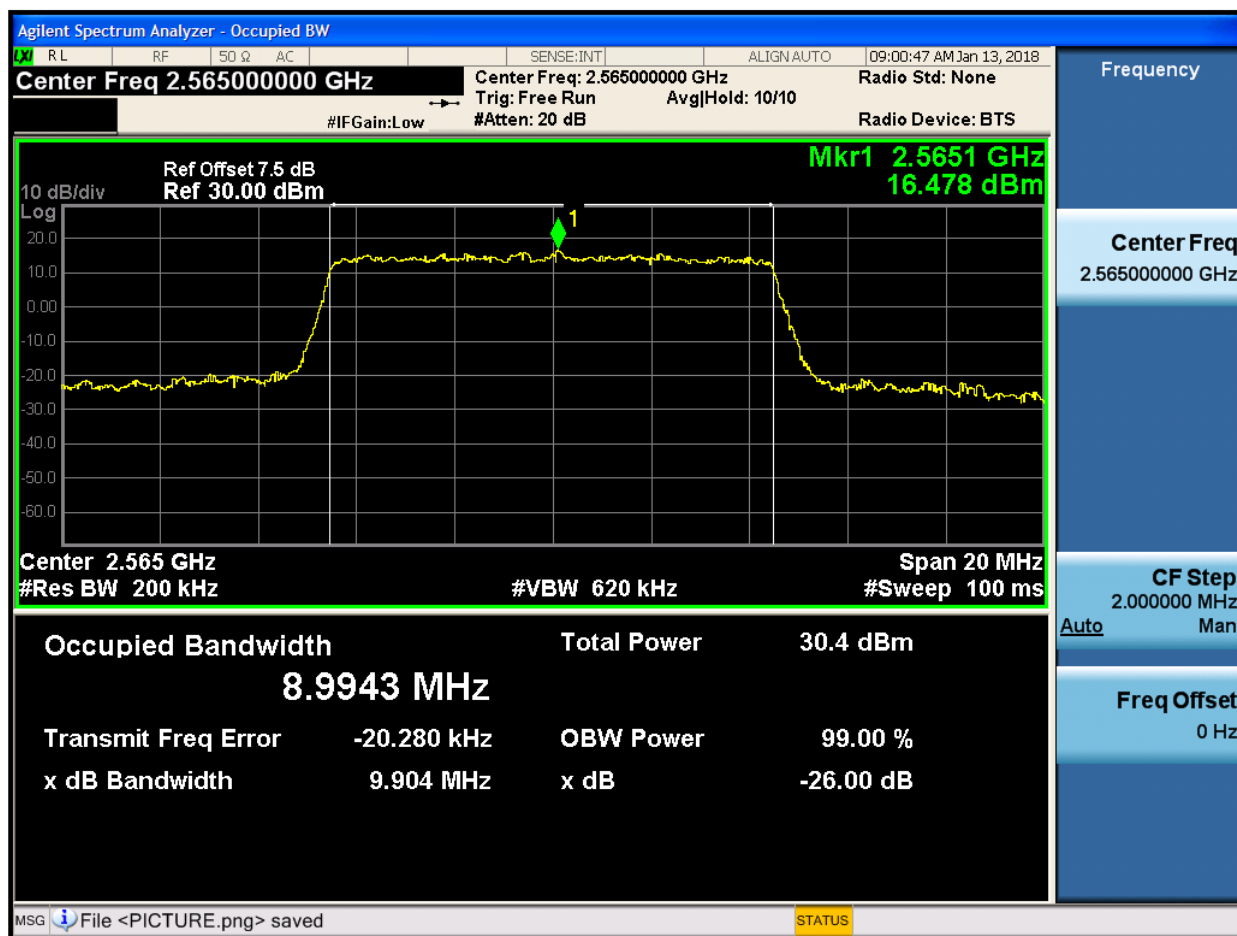
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0



4.1.1.2.2.3 Test Channel = HCH

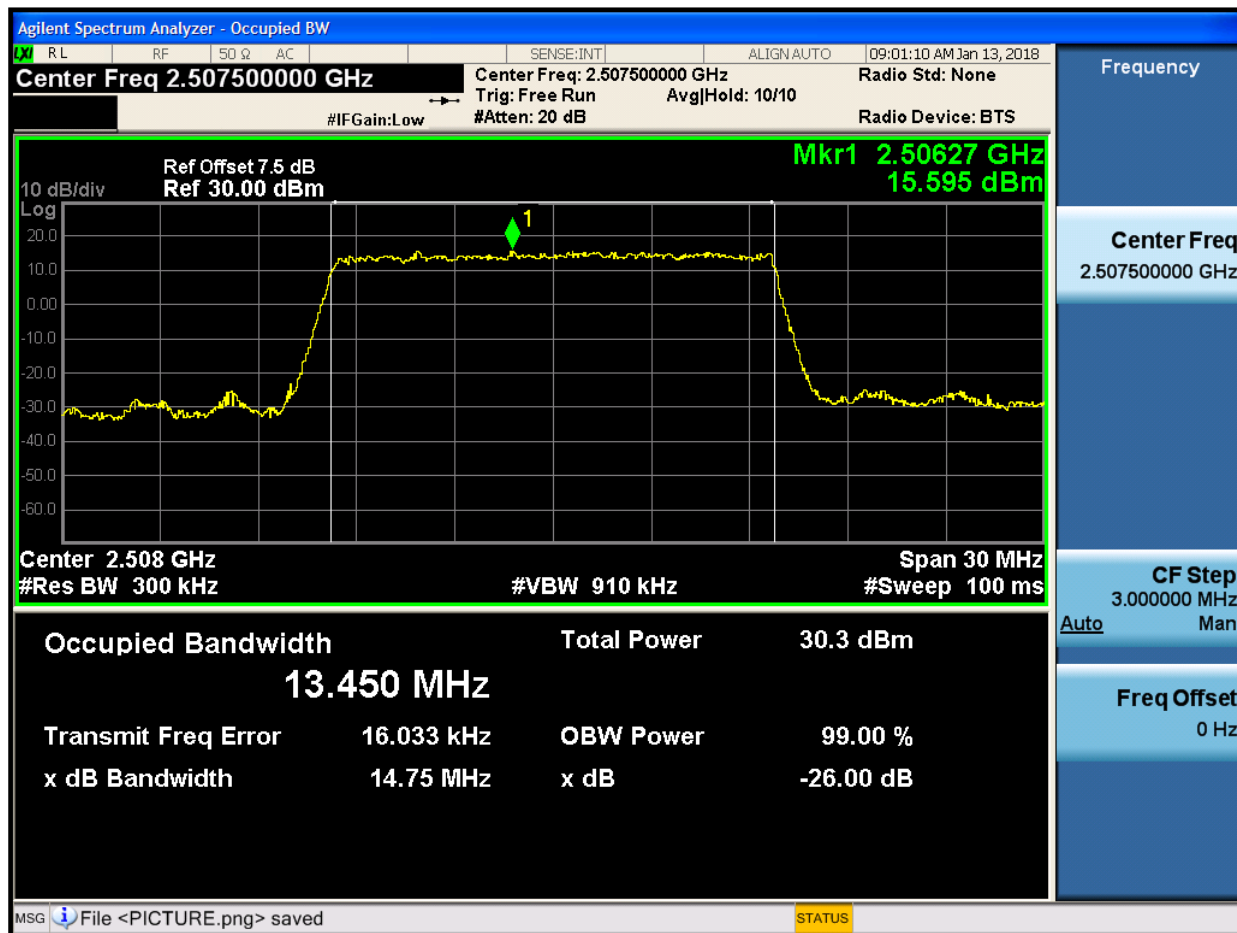
4.1.1.2.2.3.1 Test RB = RB50#0



4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

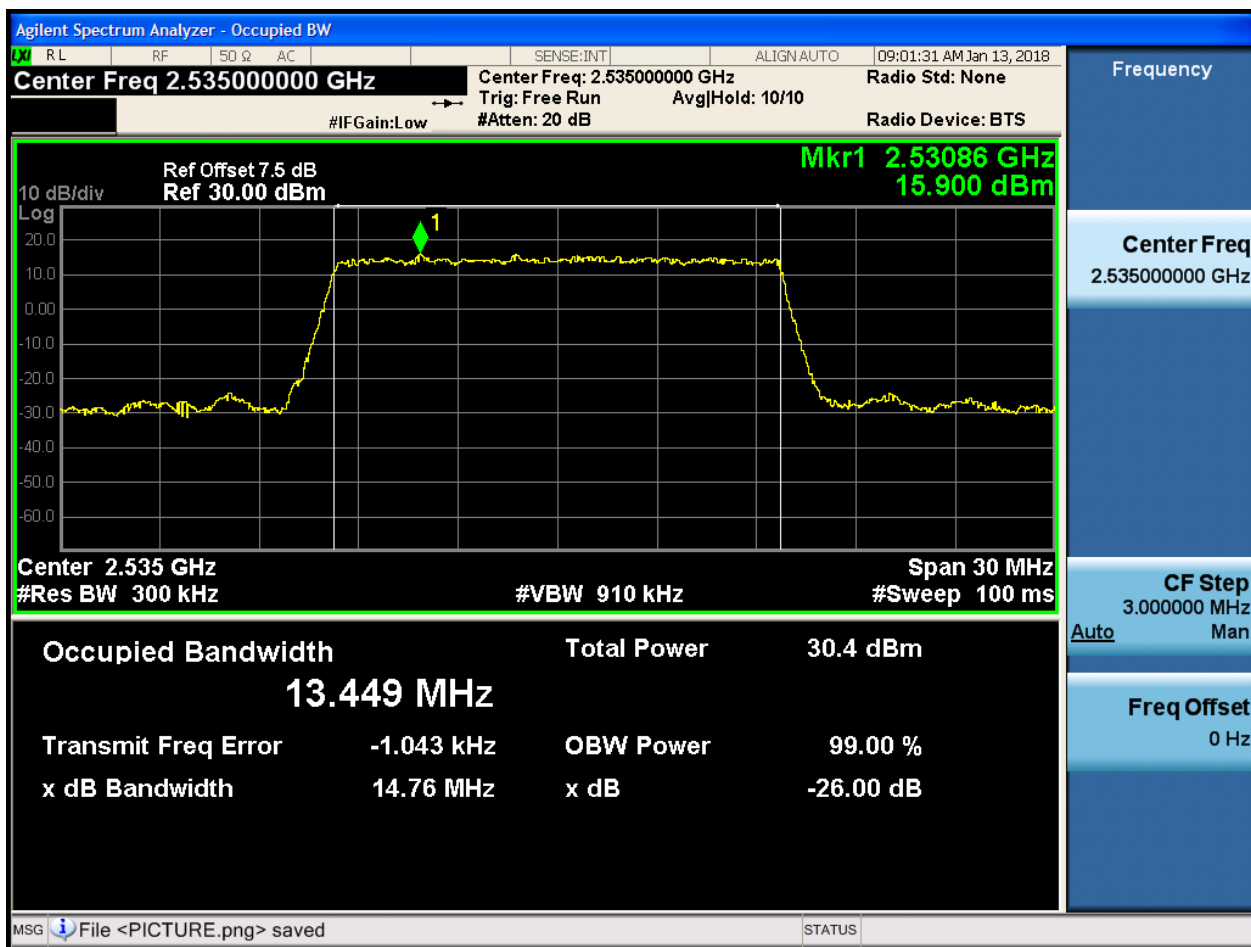
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

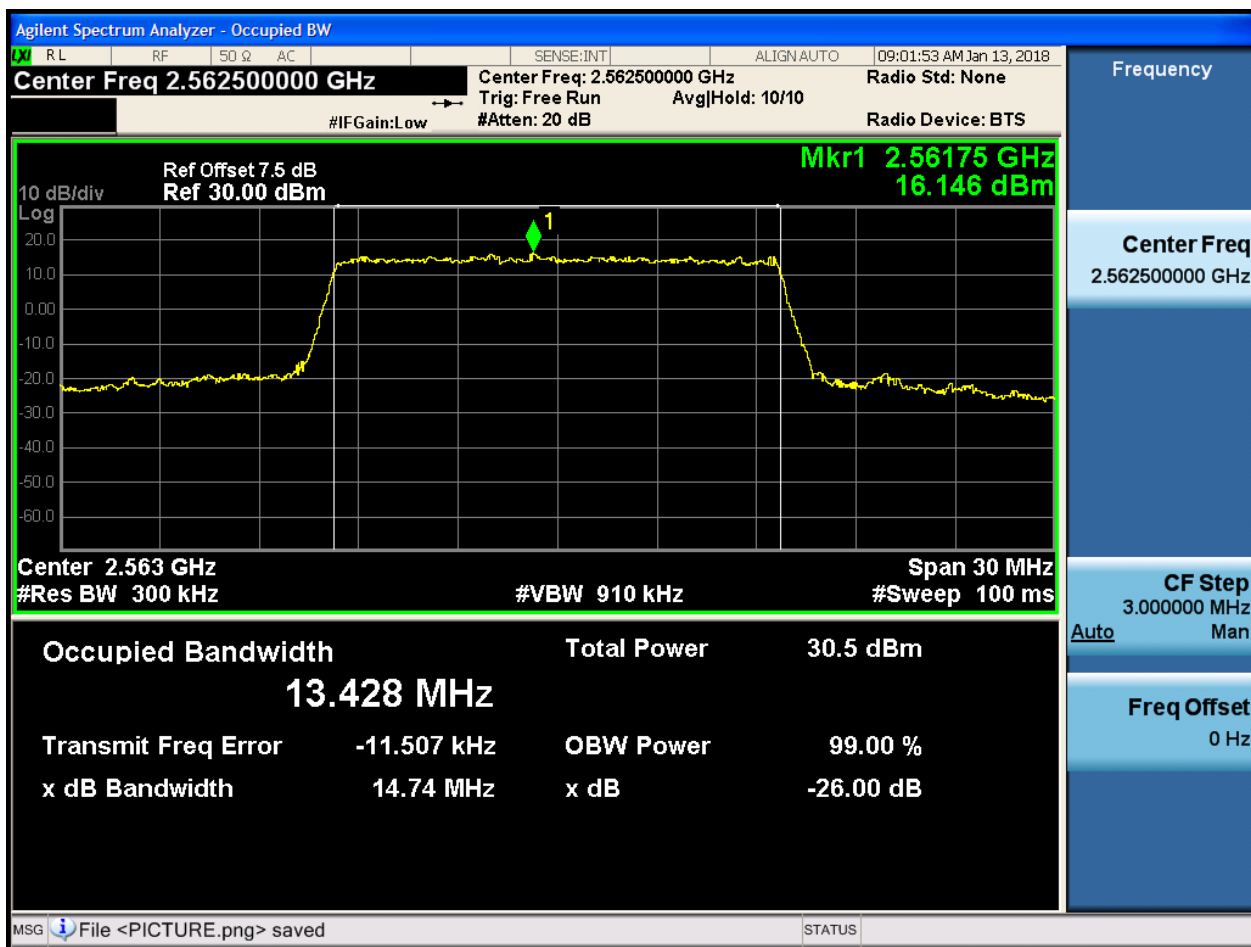
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

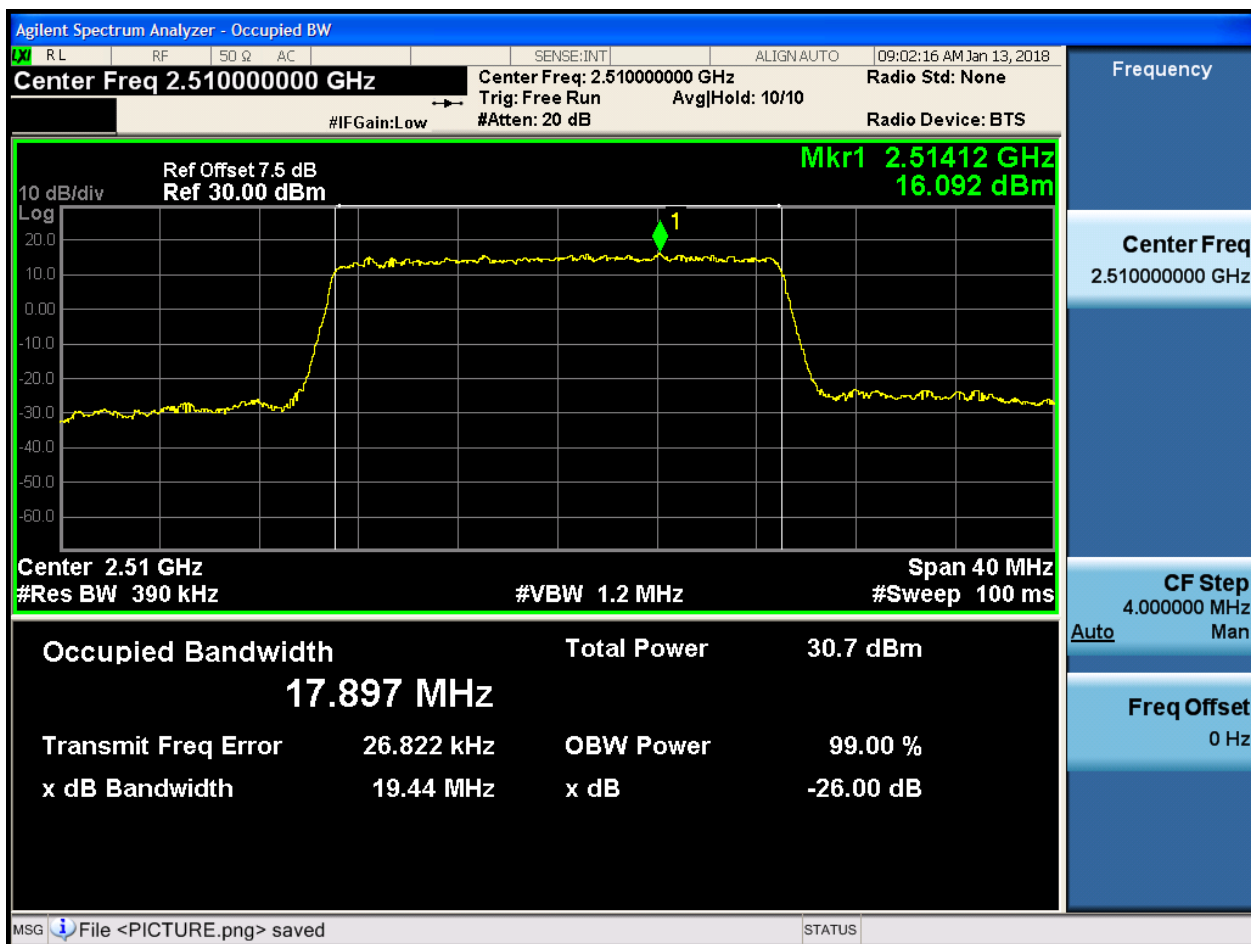




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

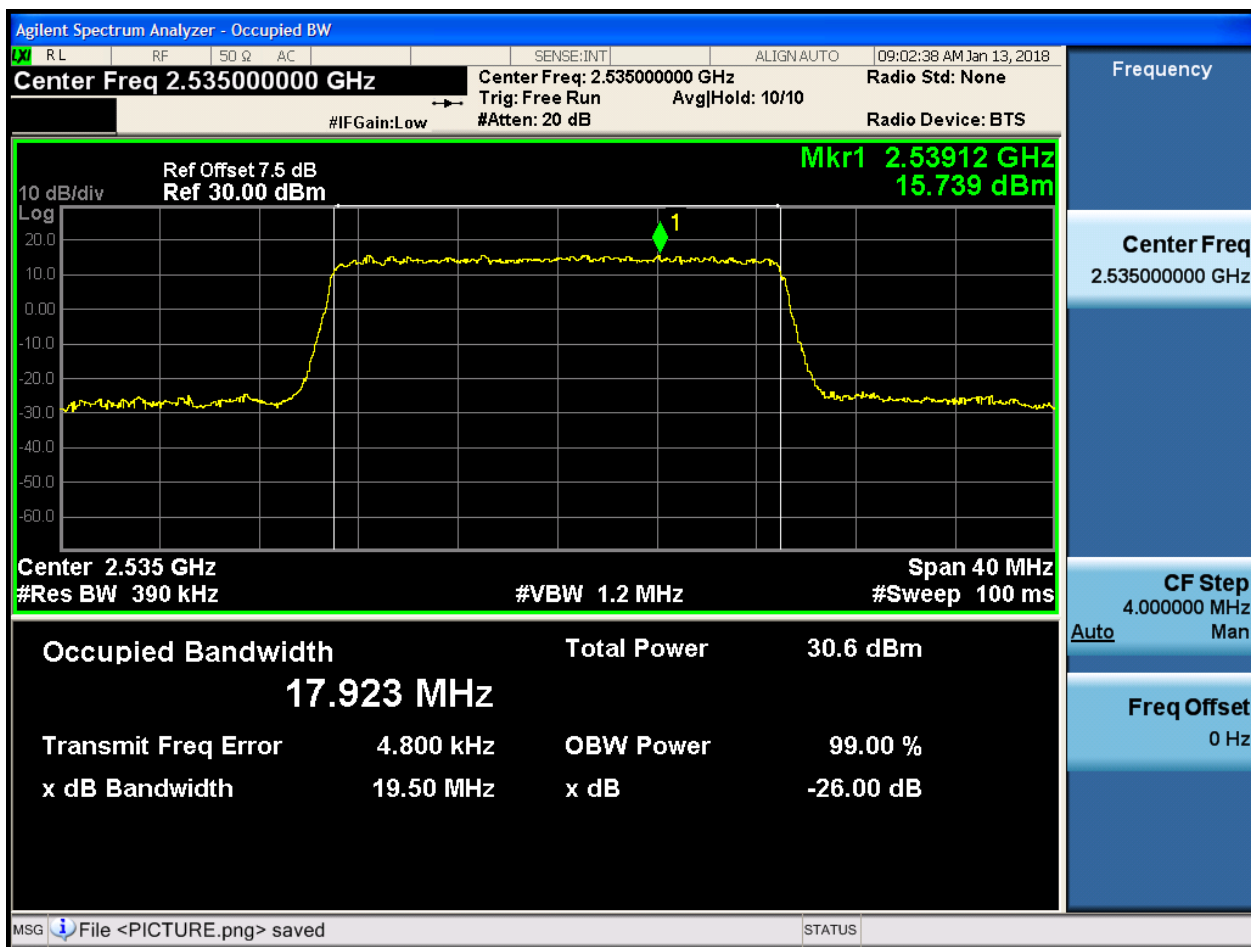
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

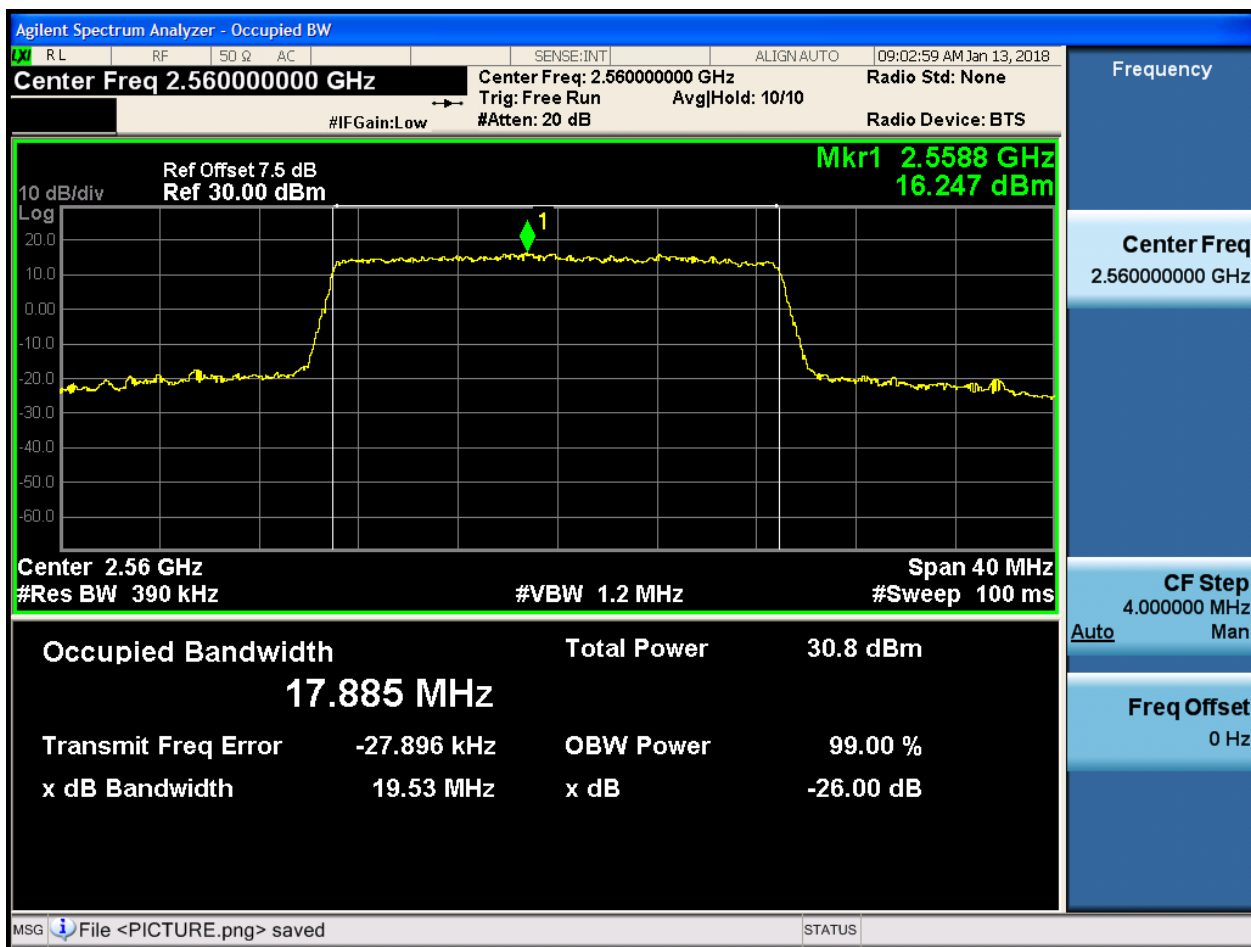
4.1.1.2.4.2.1 Test RB = RB100#0





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

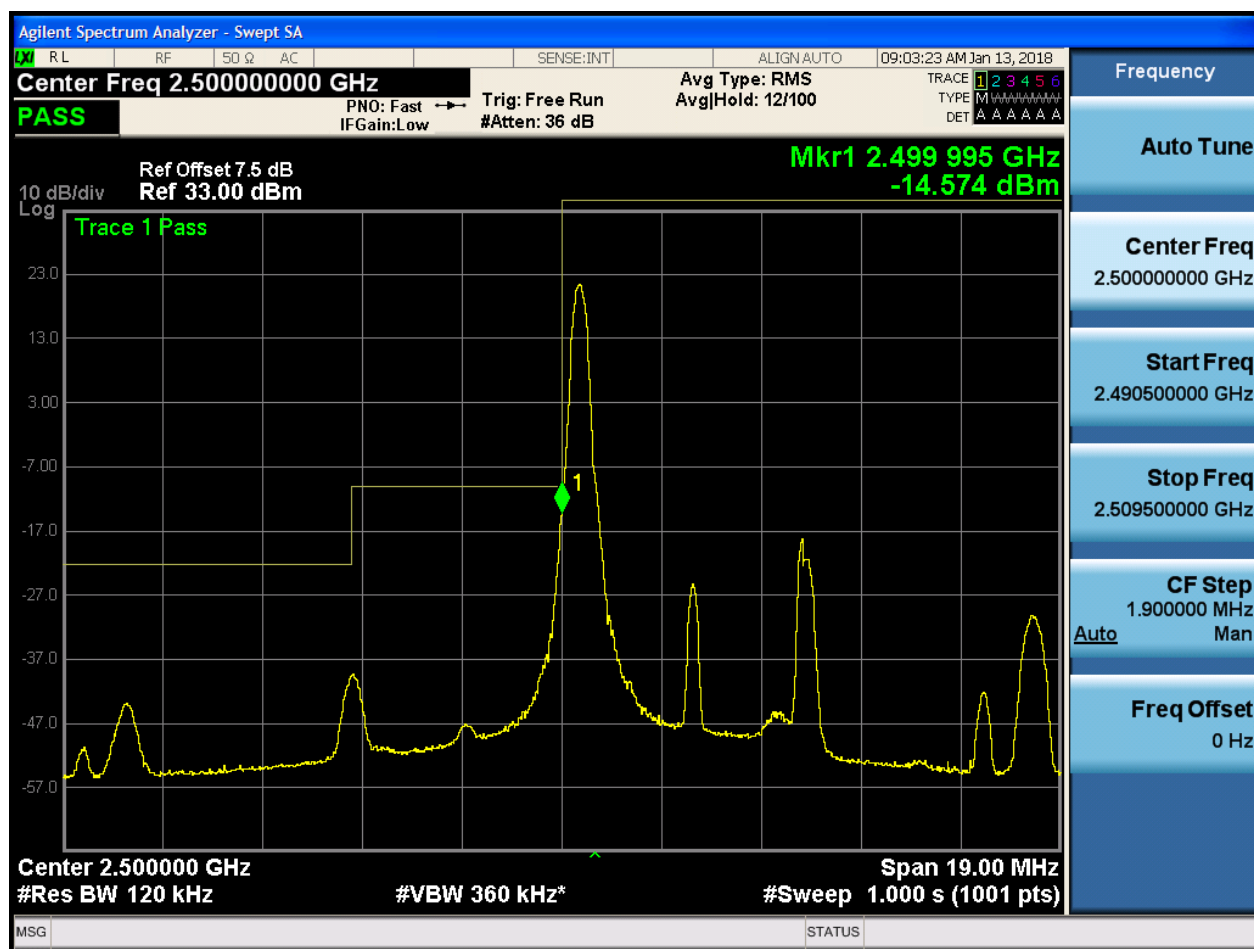
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

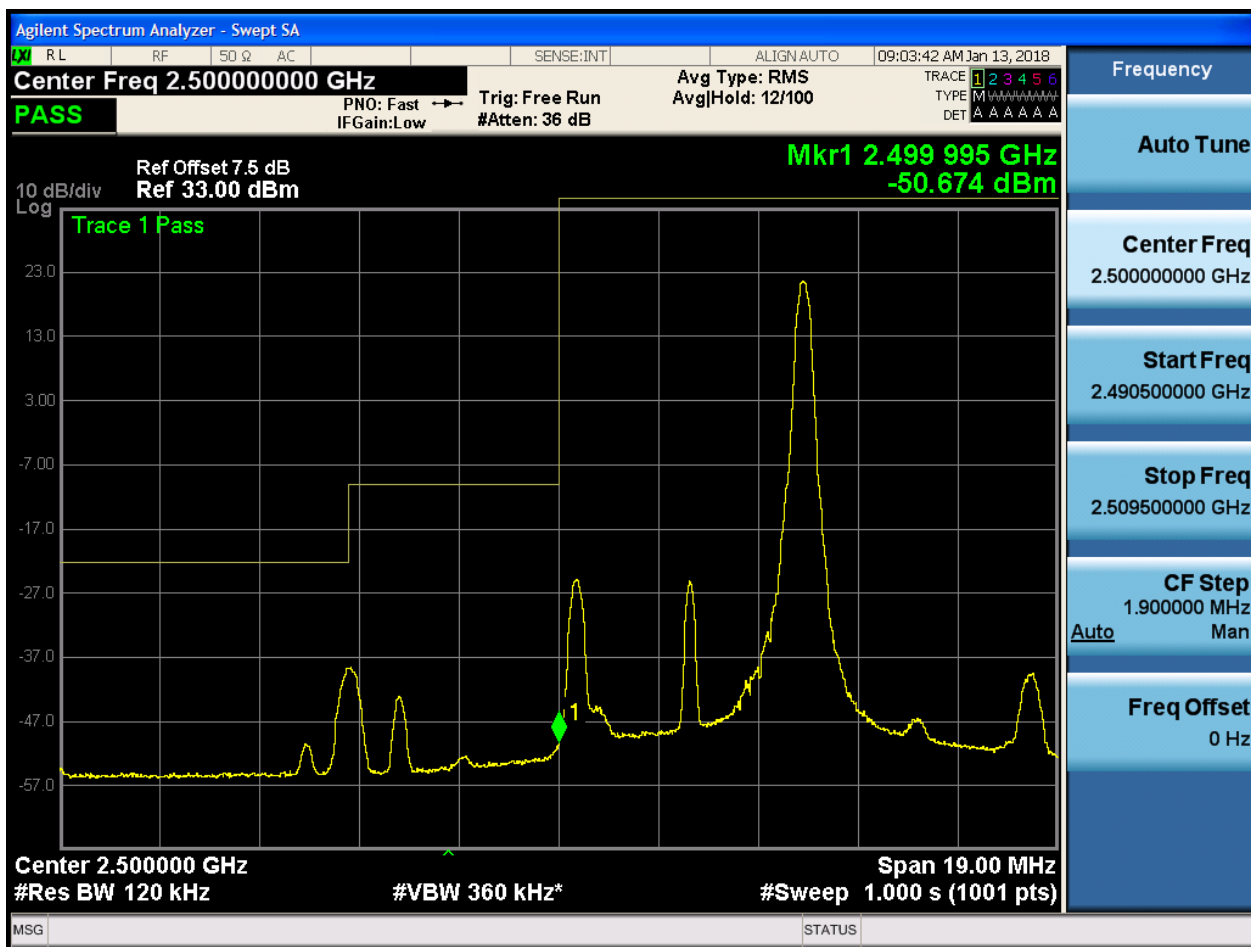
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



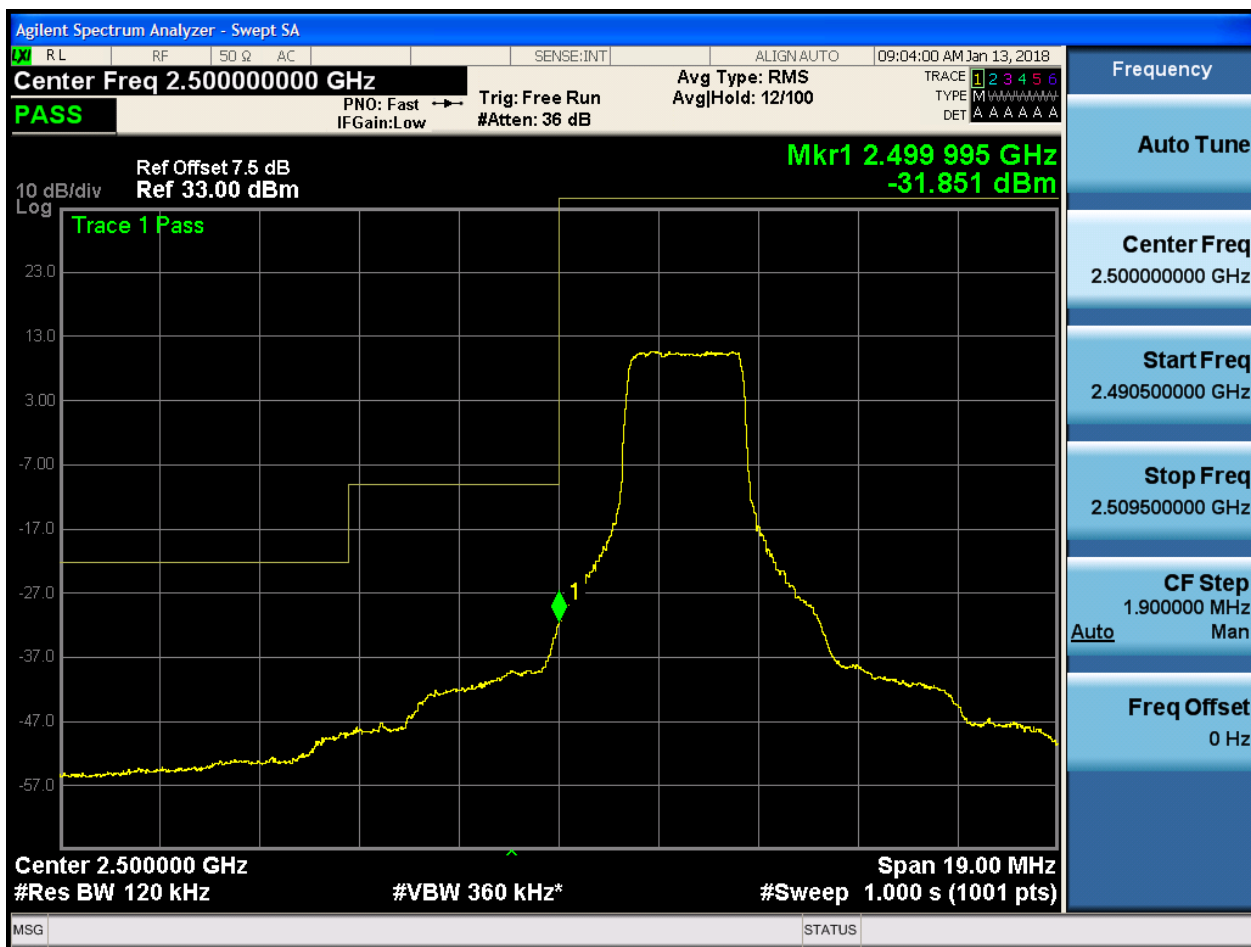


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:04:19 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run AvgHold: 12/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-23.810 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 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

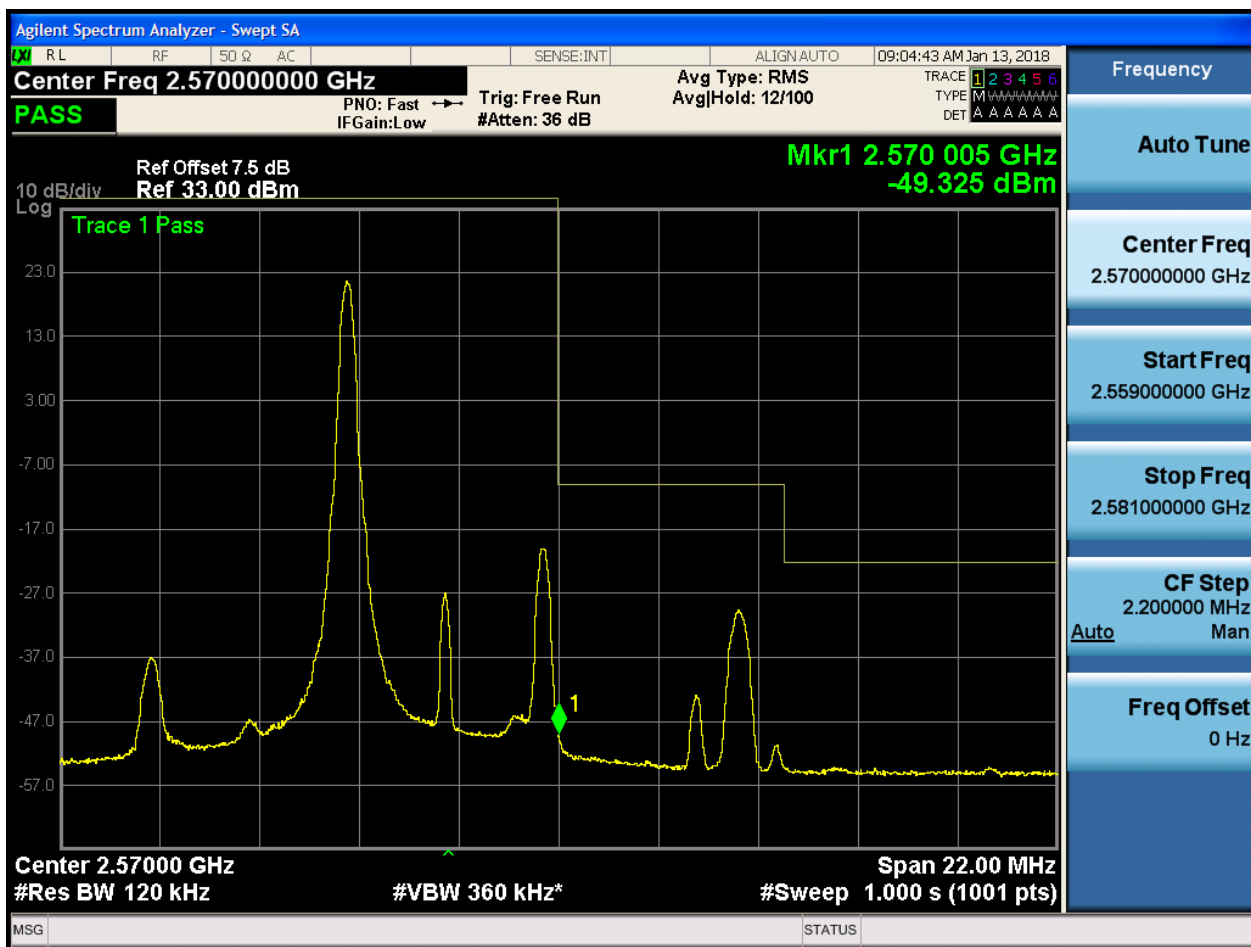
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



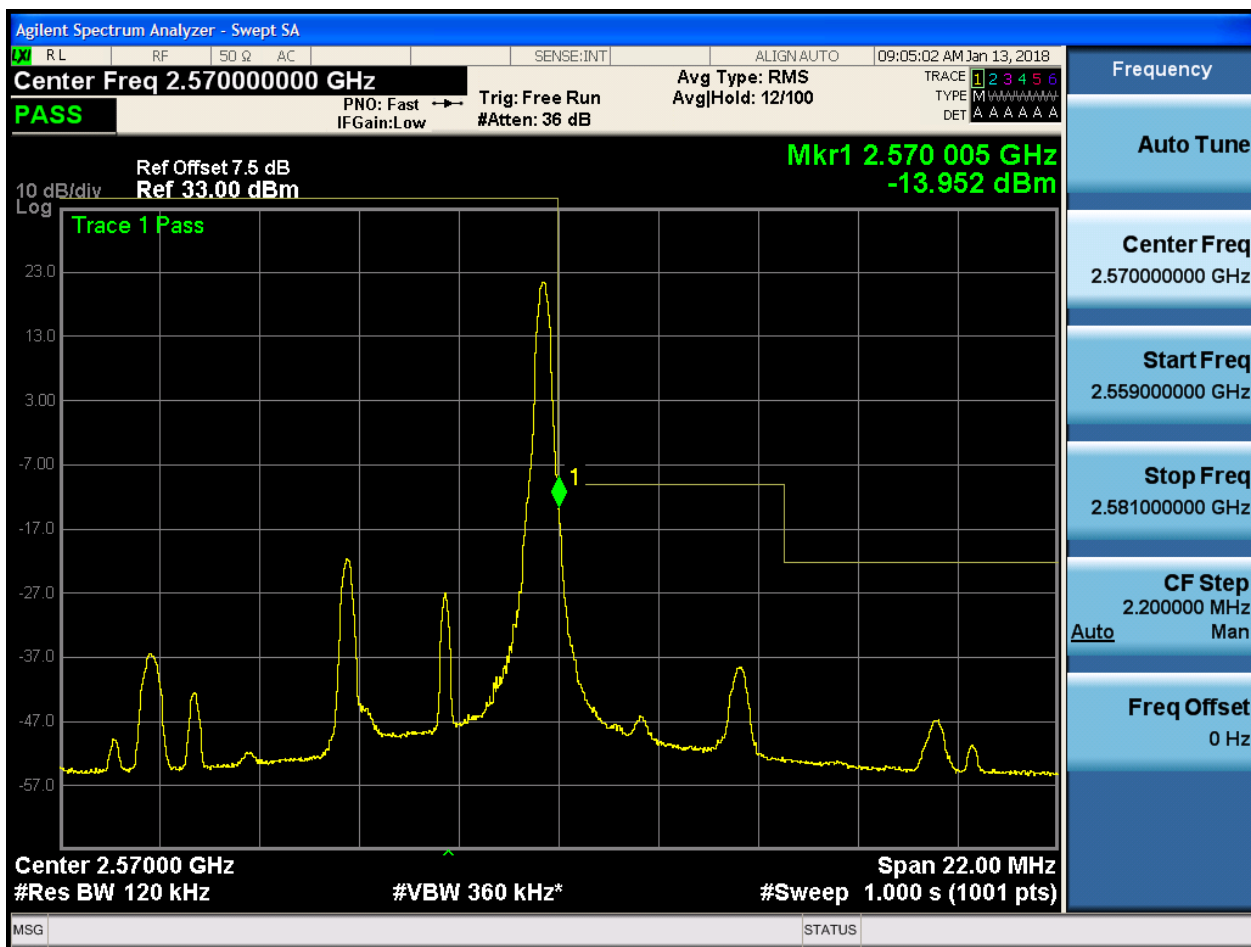
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



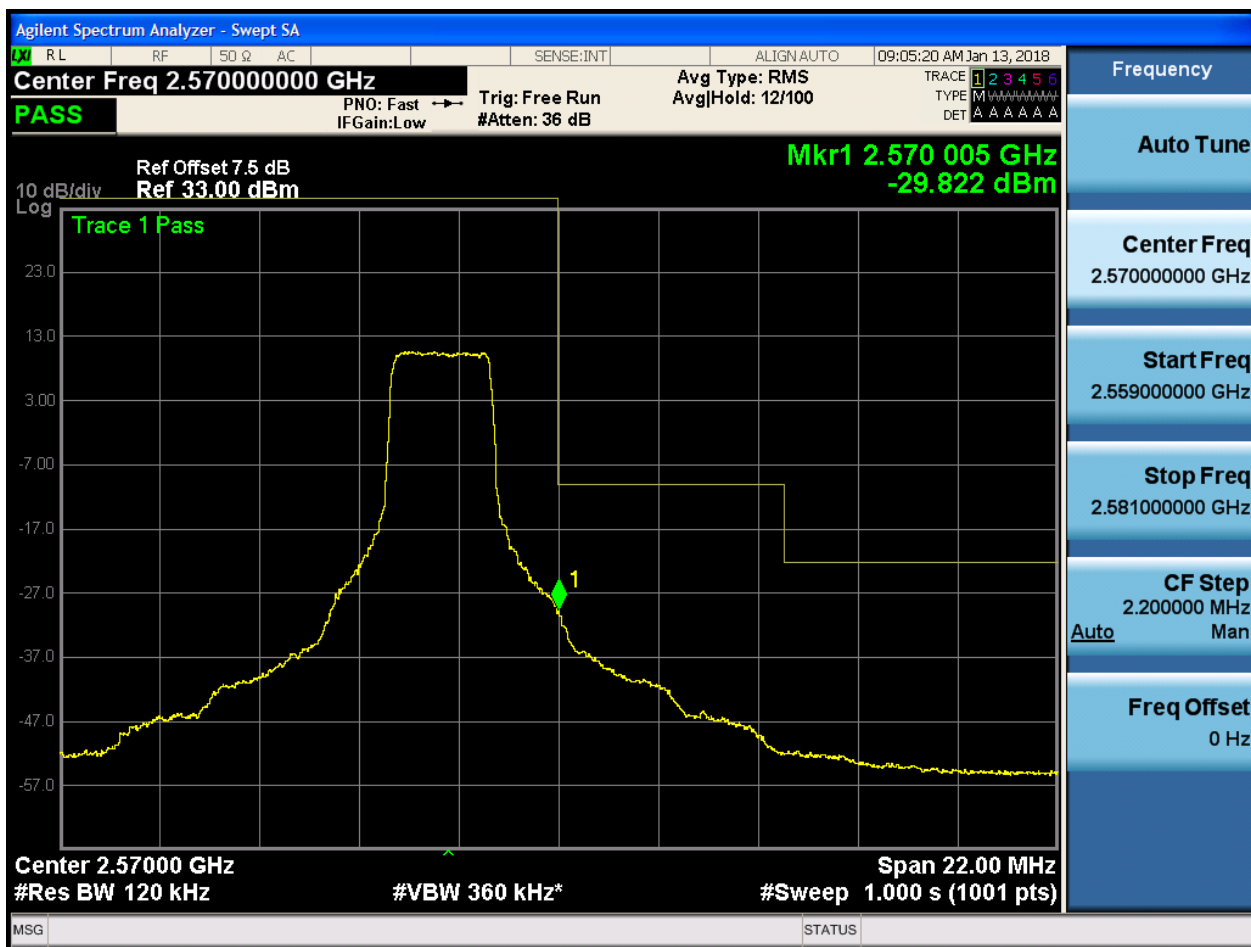


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:05:39 AM Jan 13, 2018

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-23.514 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

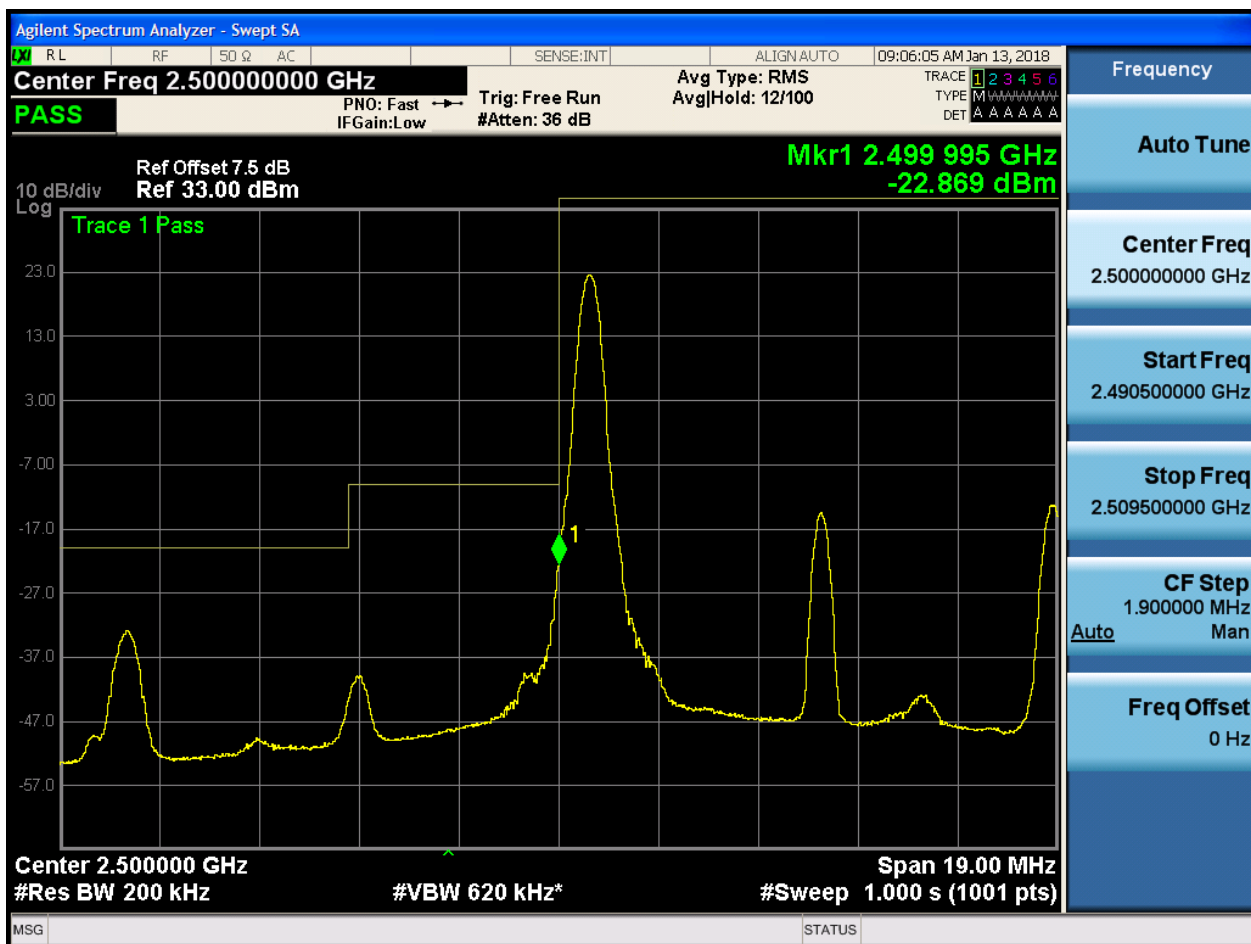
Freq Offset
0 Hz

MSG STATUS

5.1.1.1.2 Test Bandwidth = 10

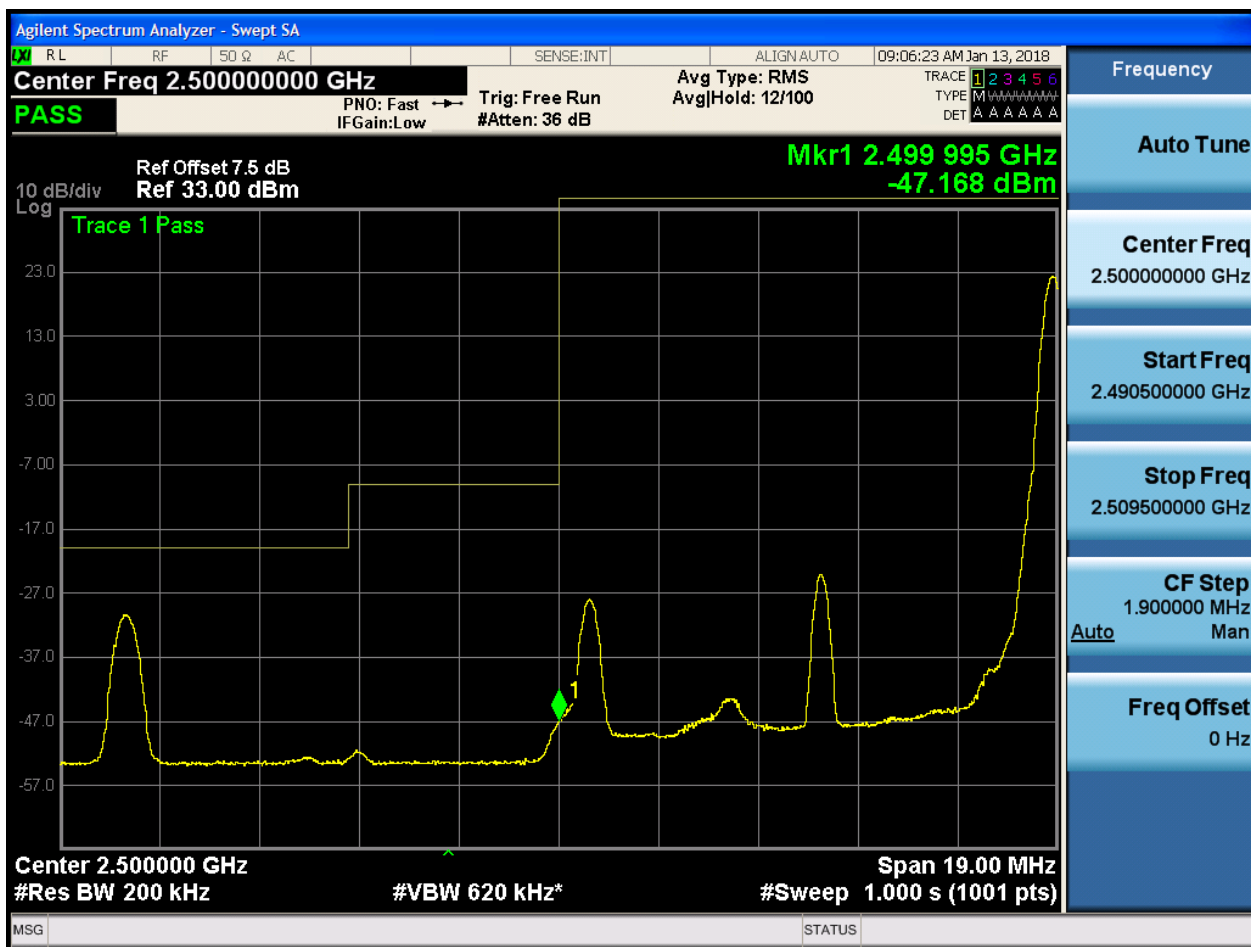
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



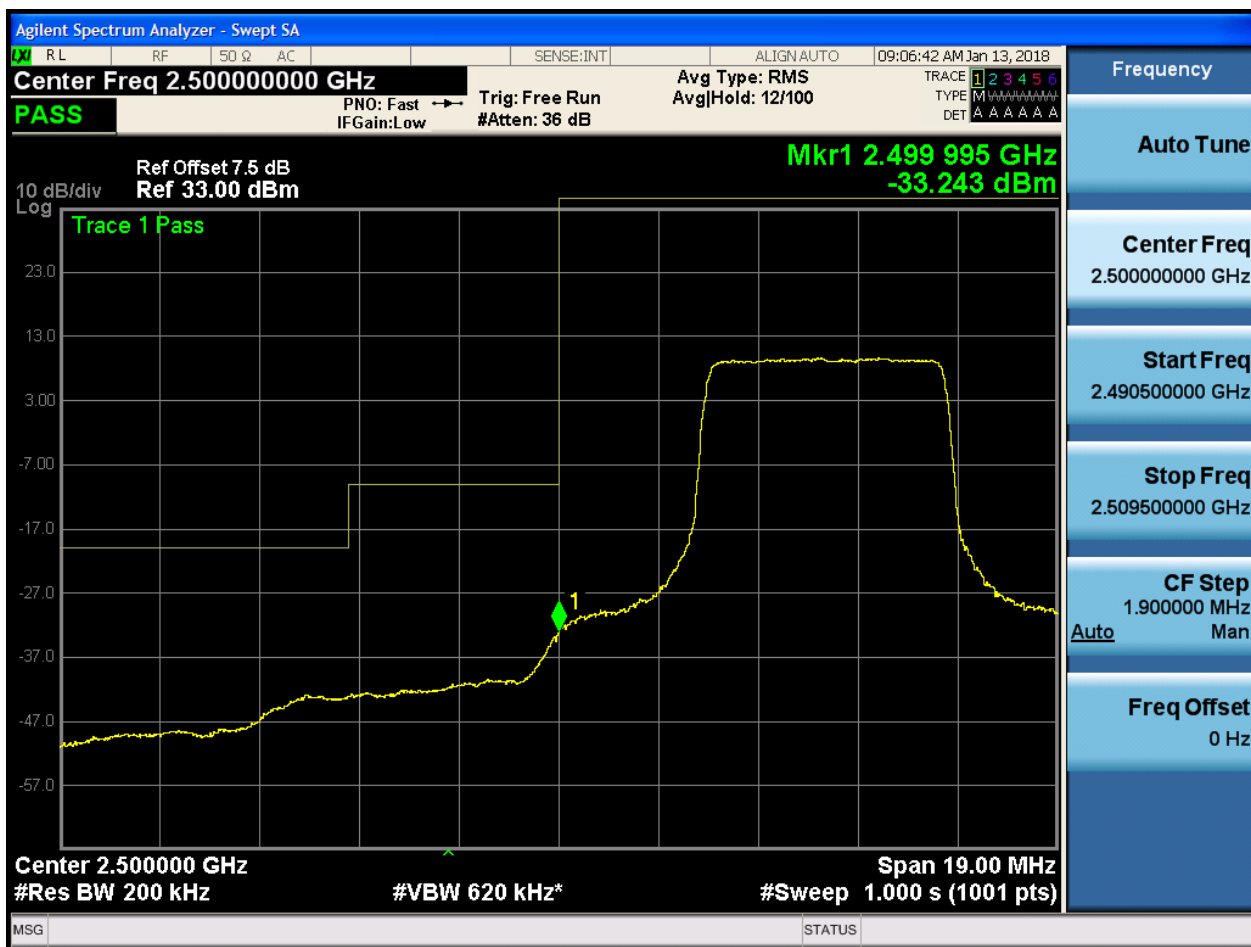


5.1.1.1.2.1.2 Test RB = RB1#49





5.1.1.1.2.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:07:00 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-28.601 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

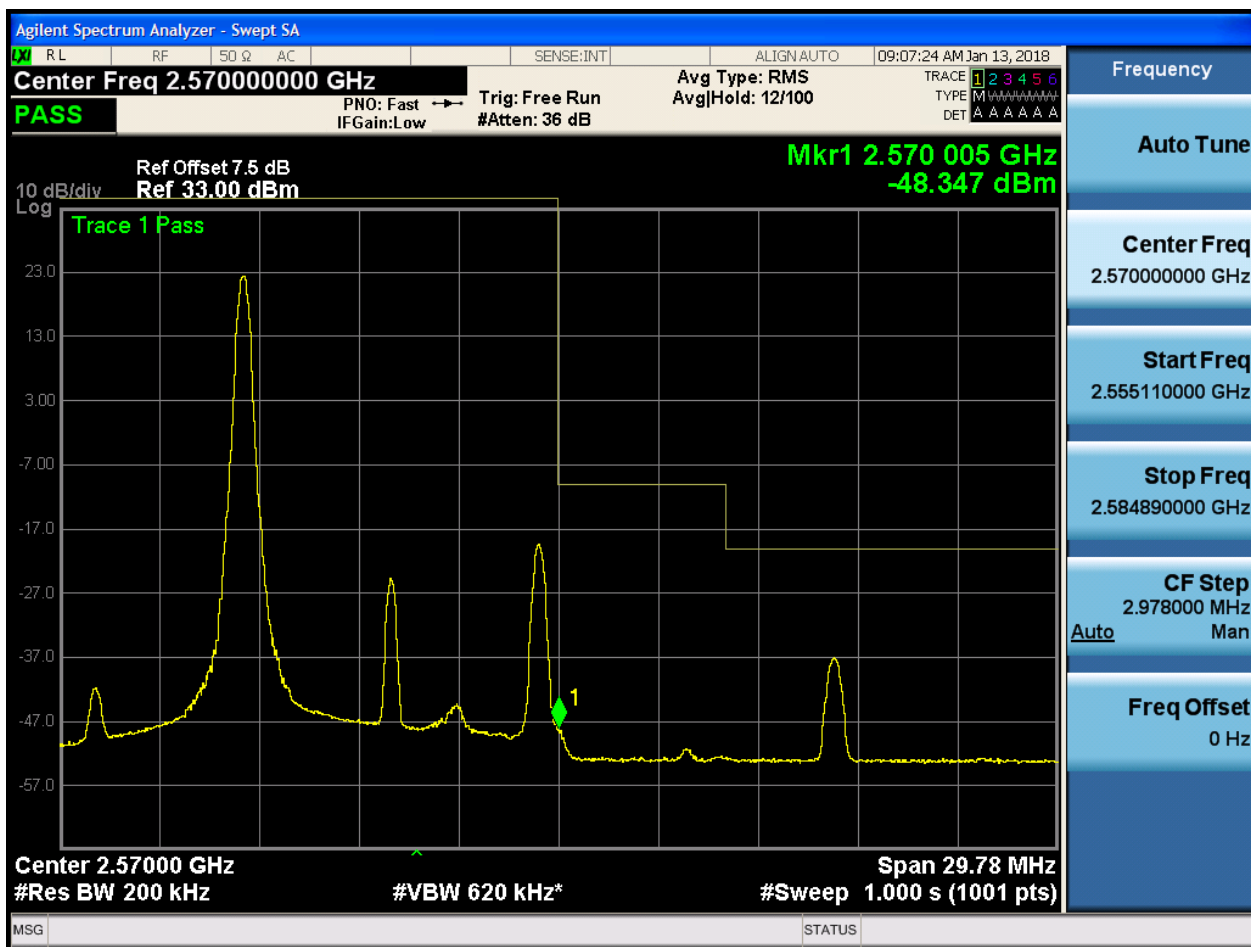
MSG STATUS

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:07:43 AM Jan 13, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast IFGain:Low Trig: Free Run #Atten: 36 dB
TYPE M DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-22.987 dBm

10 dB/div
Log

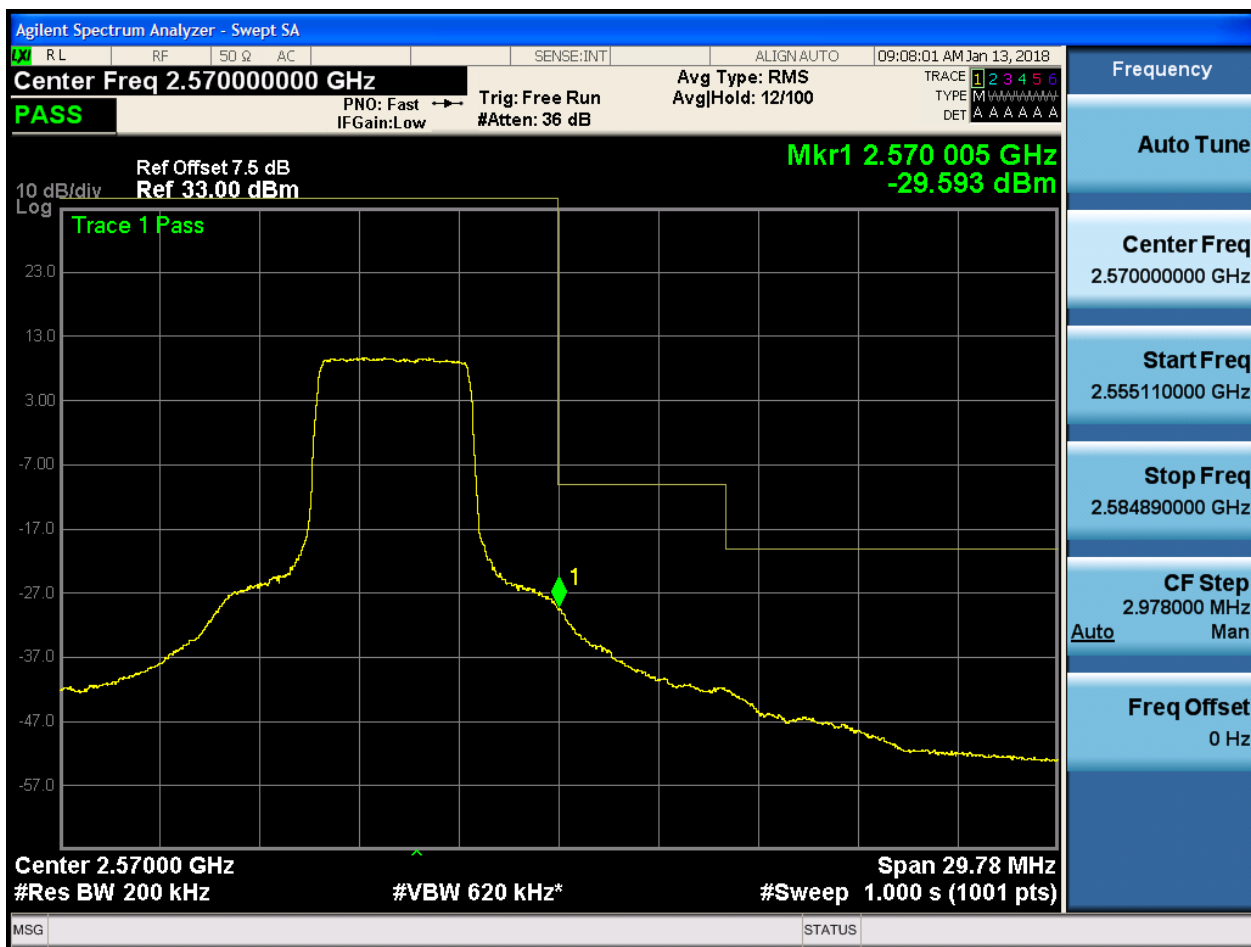
Trace 1 Pass

Center 2.57000 GHz
#Res BW 200 kHz #VBW 620 kHz* Span 29.78 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.5 dB
Ref 33.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.570 005 GHz
-26.575 dBm

Center 2.57000 GHz
#Res BW 200 kHz
#VBW 620 kHz*

Span 29.92 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.555040000 GHz

Stop Freq
2.584960000 GHz

CF Step
2.992000 MHz
Auto Man

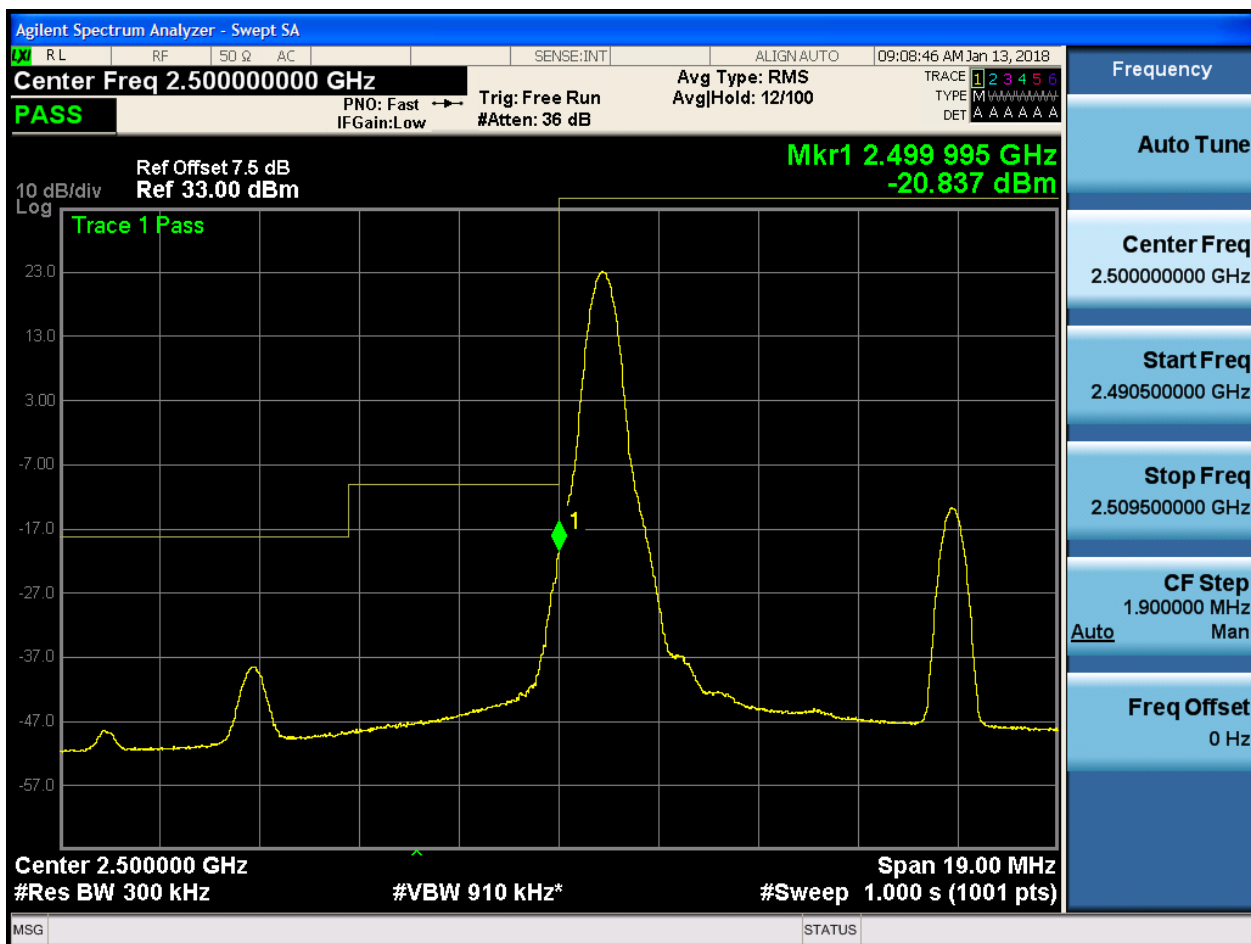
Freq Offset
0 Hz



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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:09:04 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-48.931 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 300 kHz #VBW 910 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

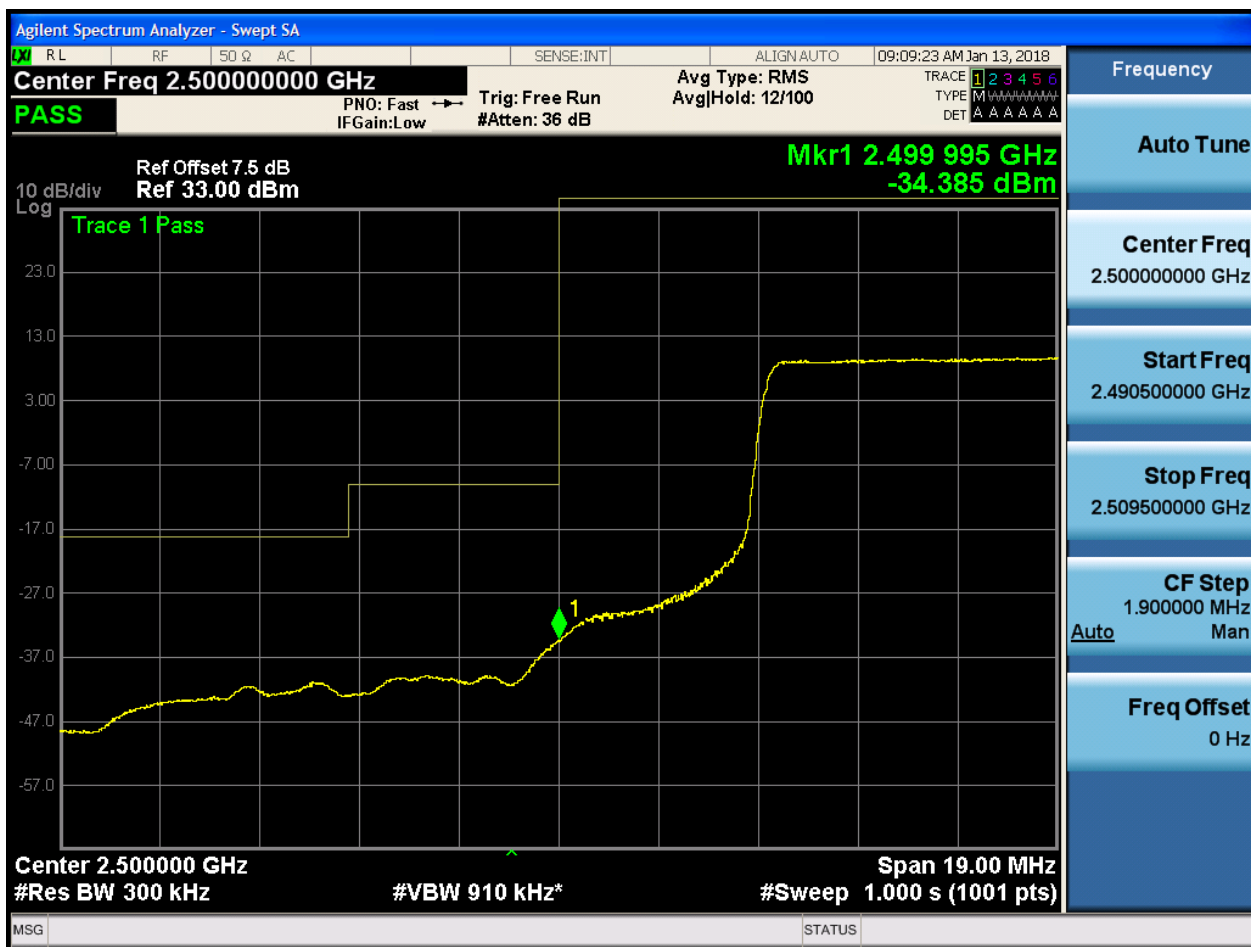
Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.3.1.3 Test RB = RB36#18





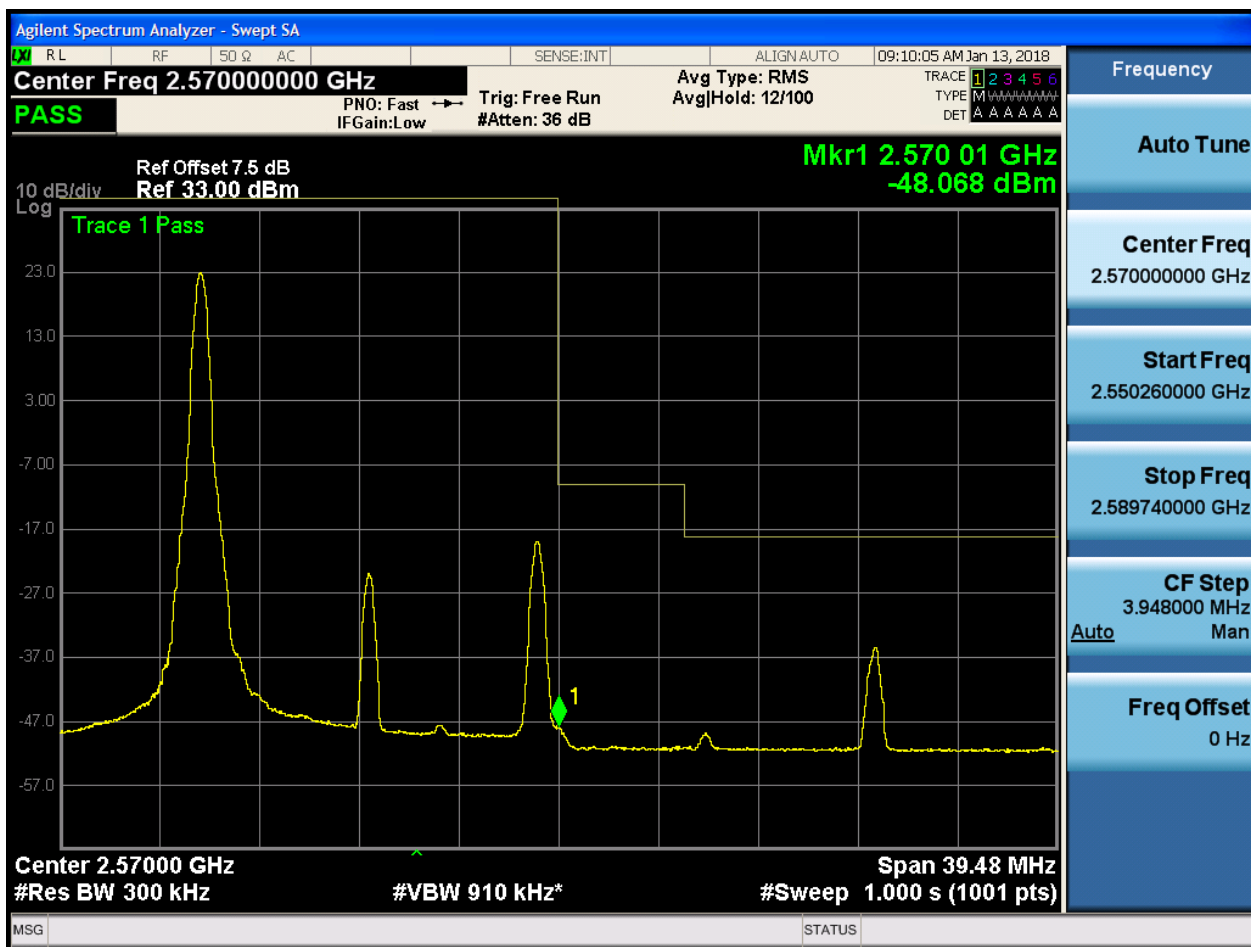
5.1.1.1.3.1.4 Test RB = RB75#0





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

Center Freq 2.570000000 GHz

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-21.600 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz

Span 39.48 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.550260000 GHz

Stop Freq
2.589740000 GHz

CF Step
3.948000 MHz
Auto

Freq Offset
0 Hz



5.1.1.1.3.2.3 Test RB = RB36#18





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:11:01 AM Jan 13, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run Avg/Hold: 12/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-25.862 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 39.48 MHz
#Res BW 300 kHz #VBW 910 kHz #Sweep 1.000 s (1001 pts)

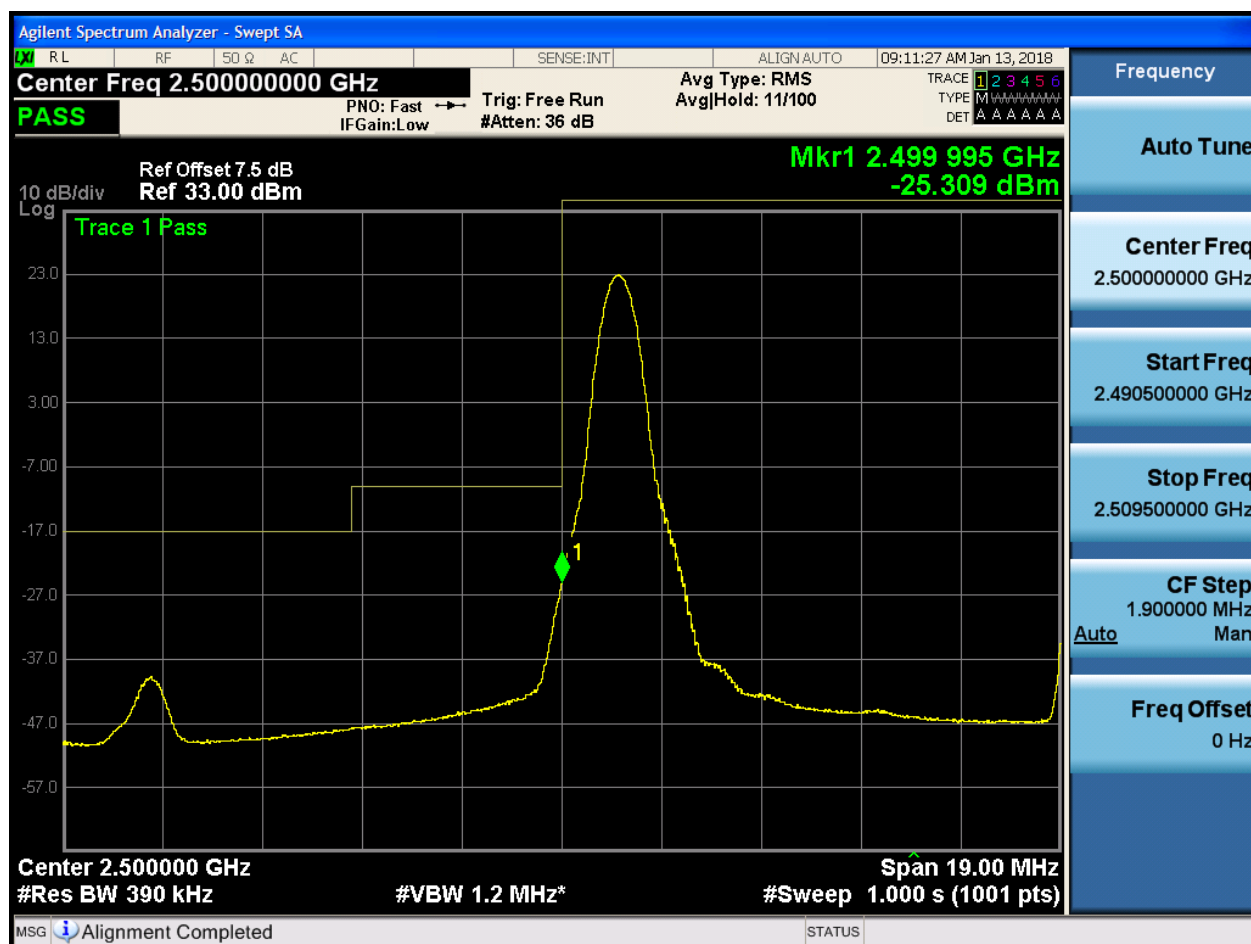
MSG STATUS

Frequency
Auto Tune
Center Freq 2.570000000 GHz
Start Freq 2.550260000 GHz
Stop Freq 2.589740000 GHz
CF Step 3.948000 MHz Auto Man
Freq Offset 0 Hz

5.1.1.1.4 Test Bandwidth = 20

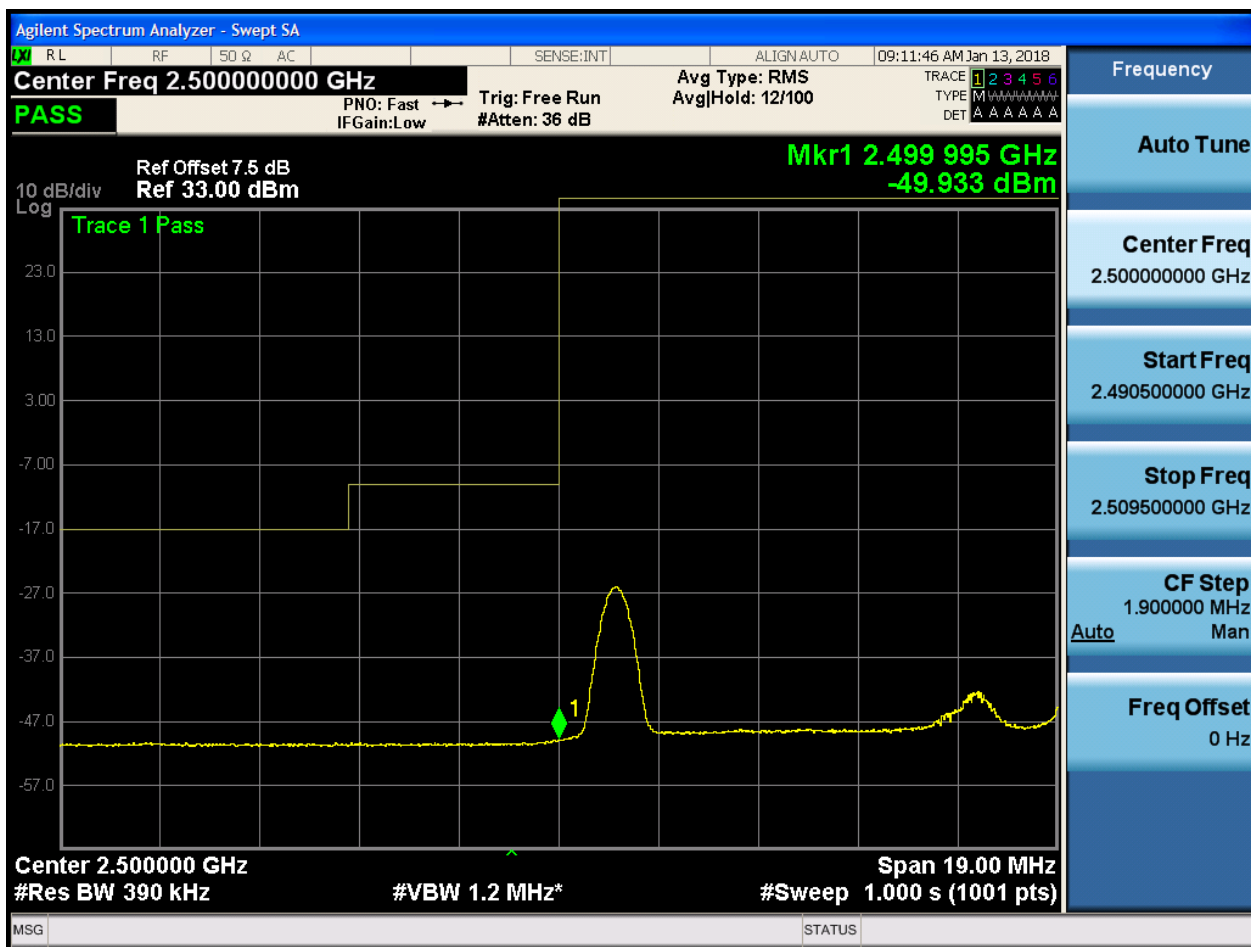
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





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 09:12:04 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-35.126 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 390 kHz #VBW 1.2 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:12:23 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-33.146 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz
Span 19.00 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

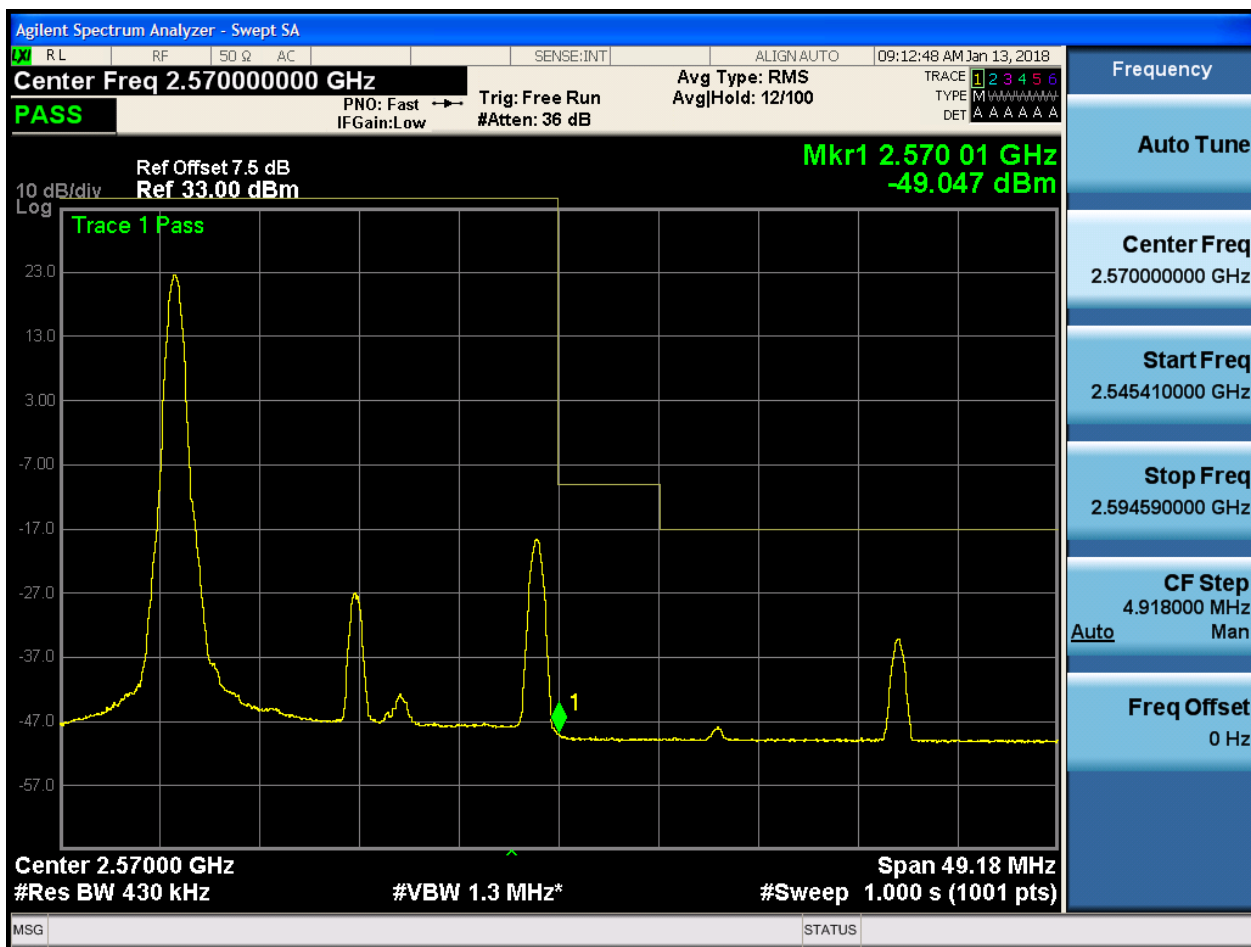
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



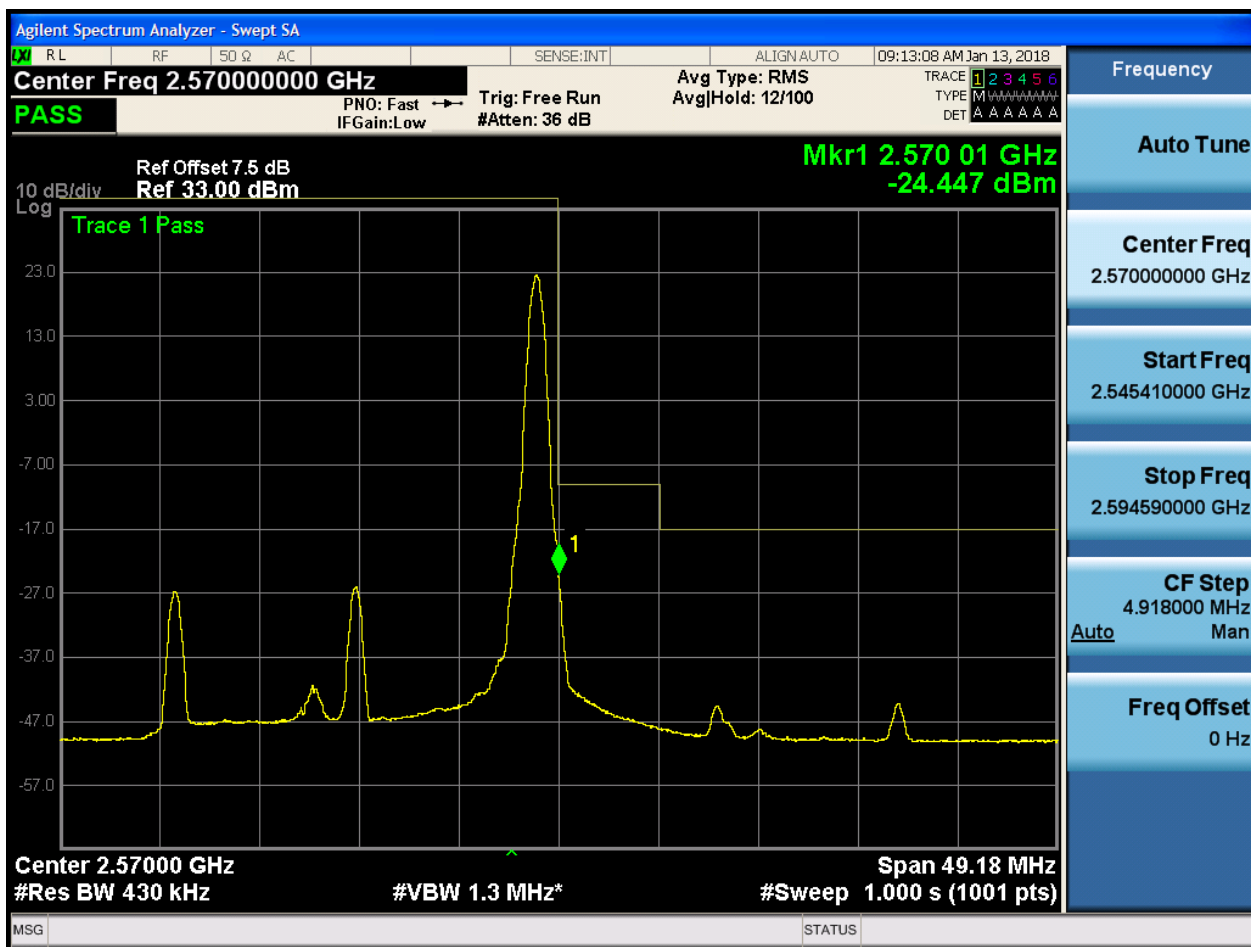
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:13:27 AM Jan 13, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast 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 33.00 dBm

Mkr1 2.570 01 GHz
-28.267 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*
Span 49.18 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.545410000 GHz

Stop Freq
2.594590000 GHz

CF Step
4.918000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.4.2.4 Test RB = RB100#0



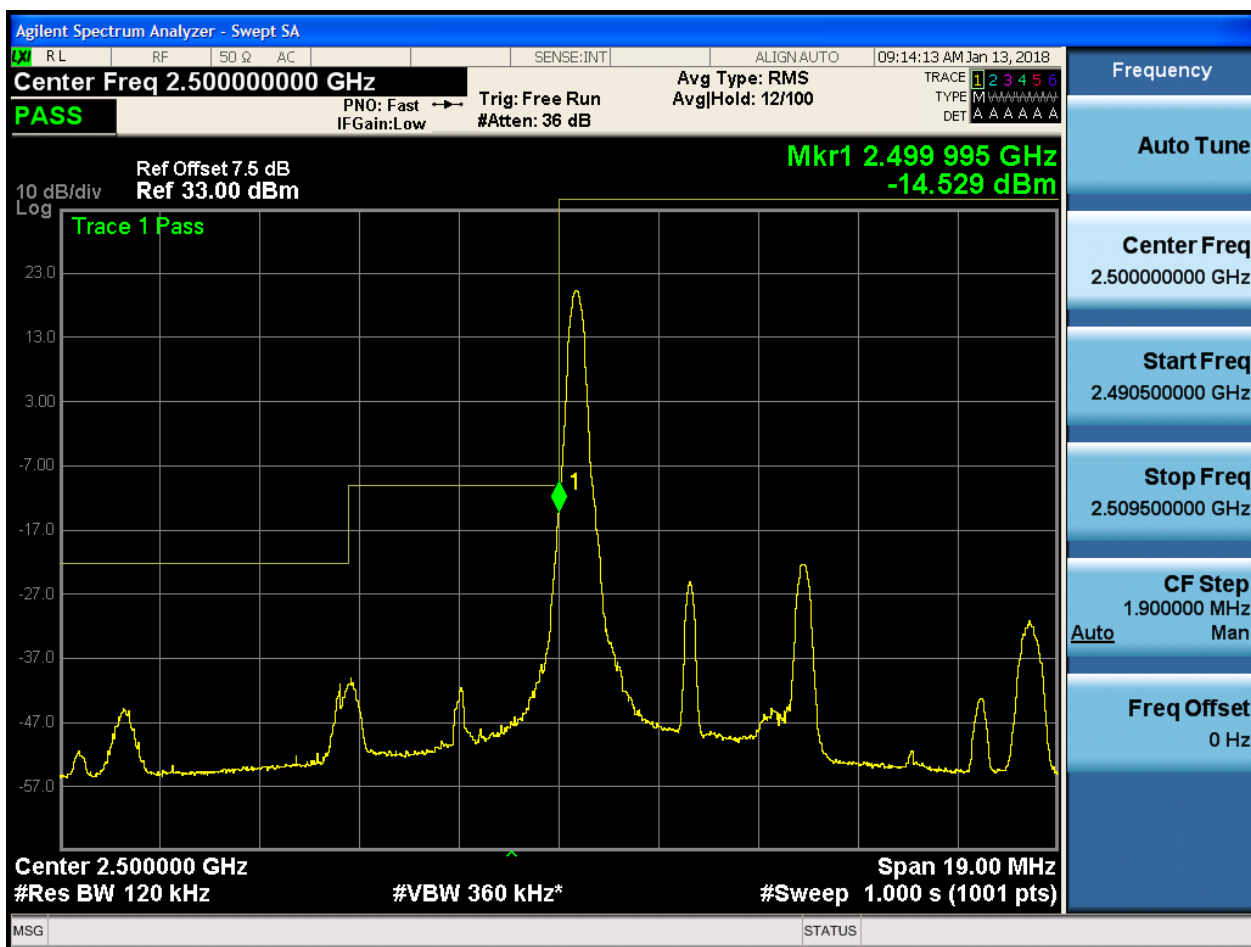


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

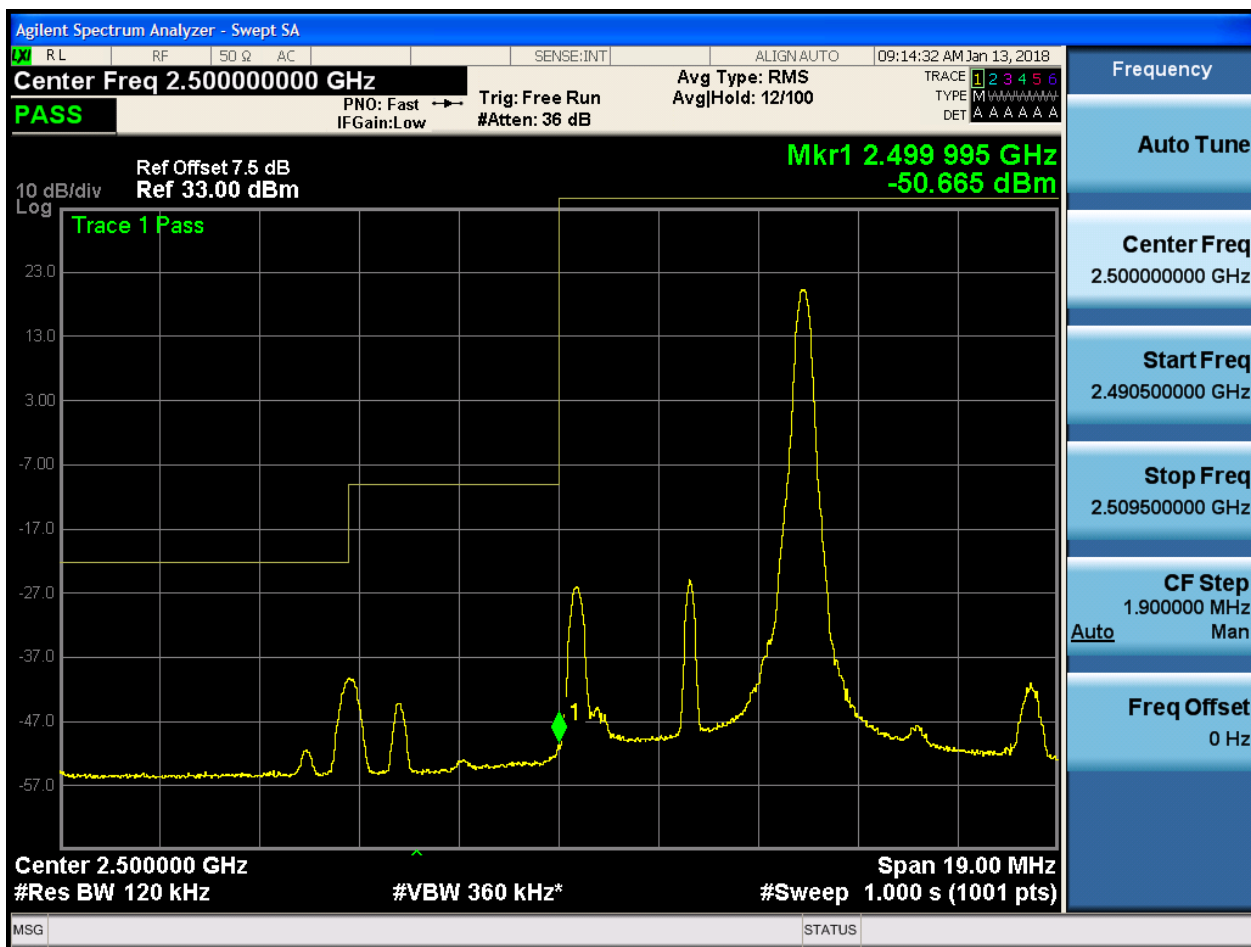
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



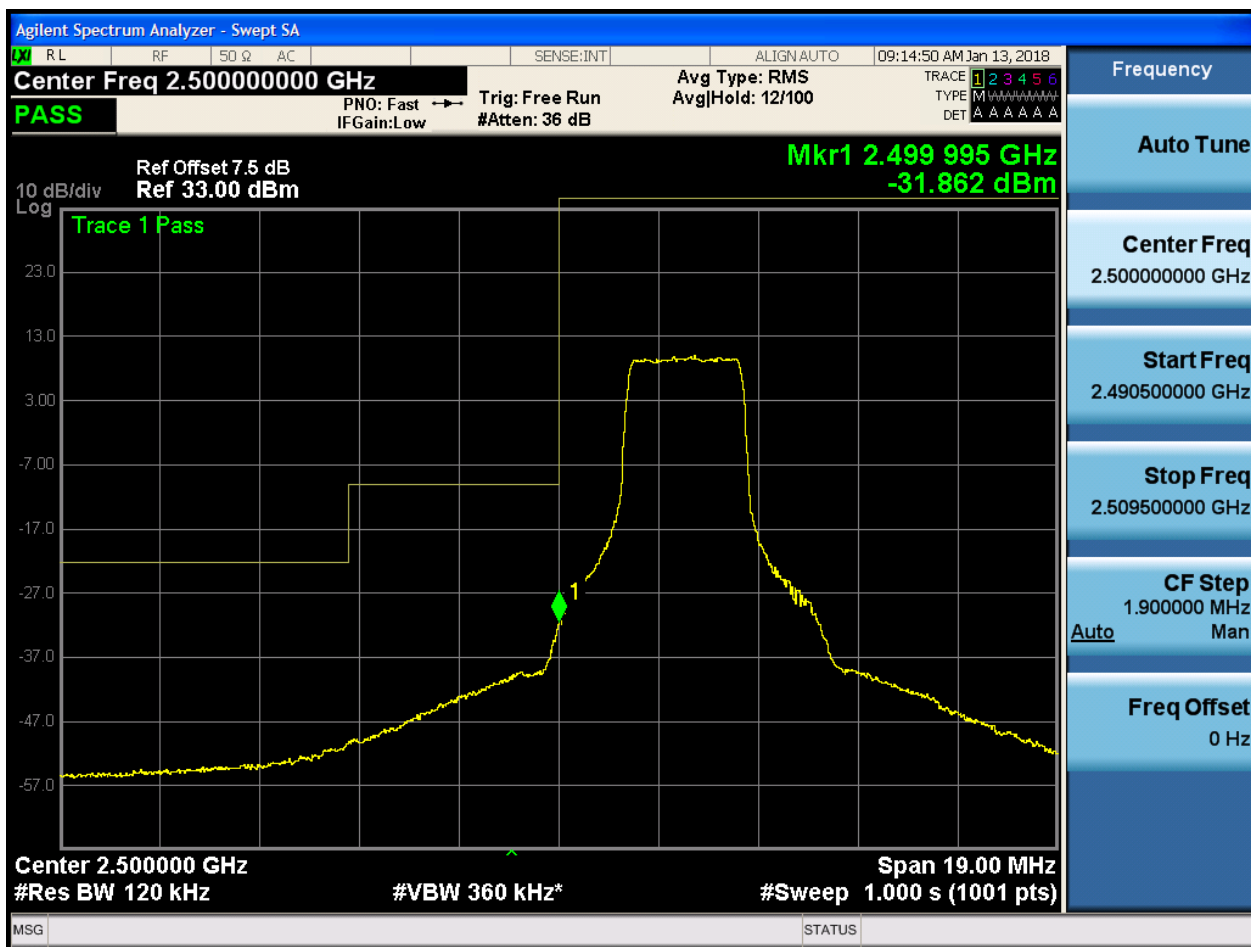


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





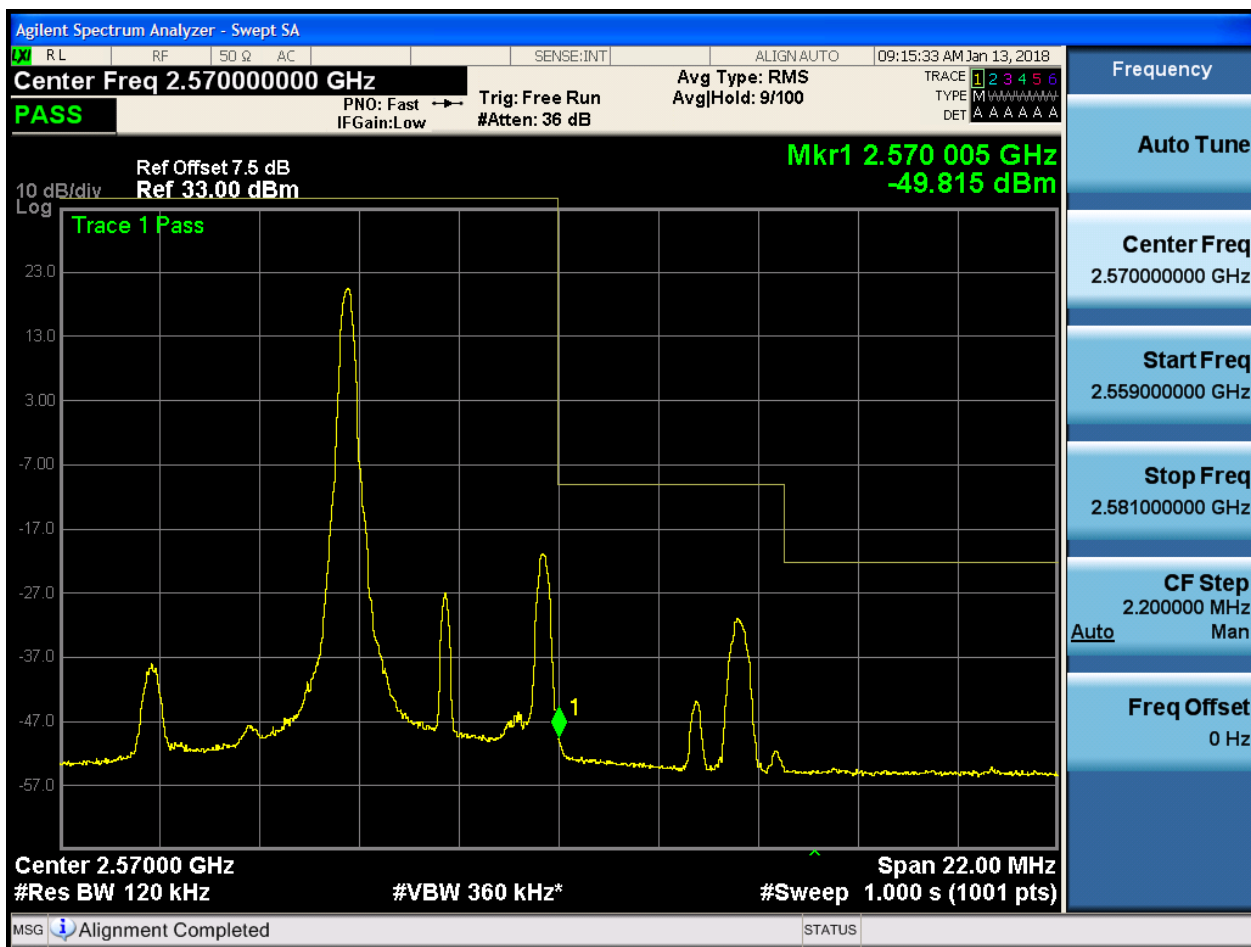
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:15:52 AM Jan 13, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run Avg|Hold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-15.493 dBm

10 dB/div
Log

Trace 1 Pass

The spectrum plot shows a yellow trace on a black grid. The vertical axis is labeled '10 dB/div Log' and ranges from -57.0 to 23.0 dBm. The horizontal axis represents frequency. A prominent peak is visible at 2.570005 GHz, marked with a yellow diamond and a cursor labeled '1'. The peak level is -15.493 dBm. Other smaller peaks are visible at approximately 2.568 GHz, 2.569 GHz, and 2.571 GHz. The baseline noise floor is around -57 dBm.

Center 2.57000 GHz Span 22.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq
2.57000000 GHz
Start Freq
2.559000000 GHz
Stop Freq
2.581000000 GHz
CF Step
2.200000 MHz
Auto Man
Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:16:10 AM Jan 13, 2018

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-31.258 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.559000000 GHz

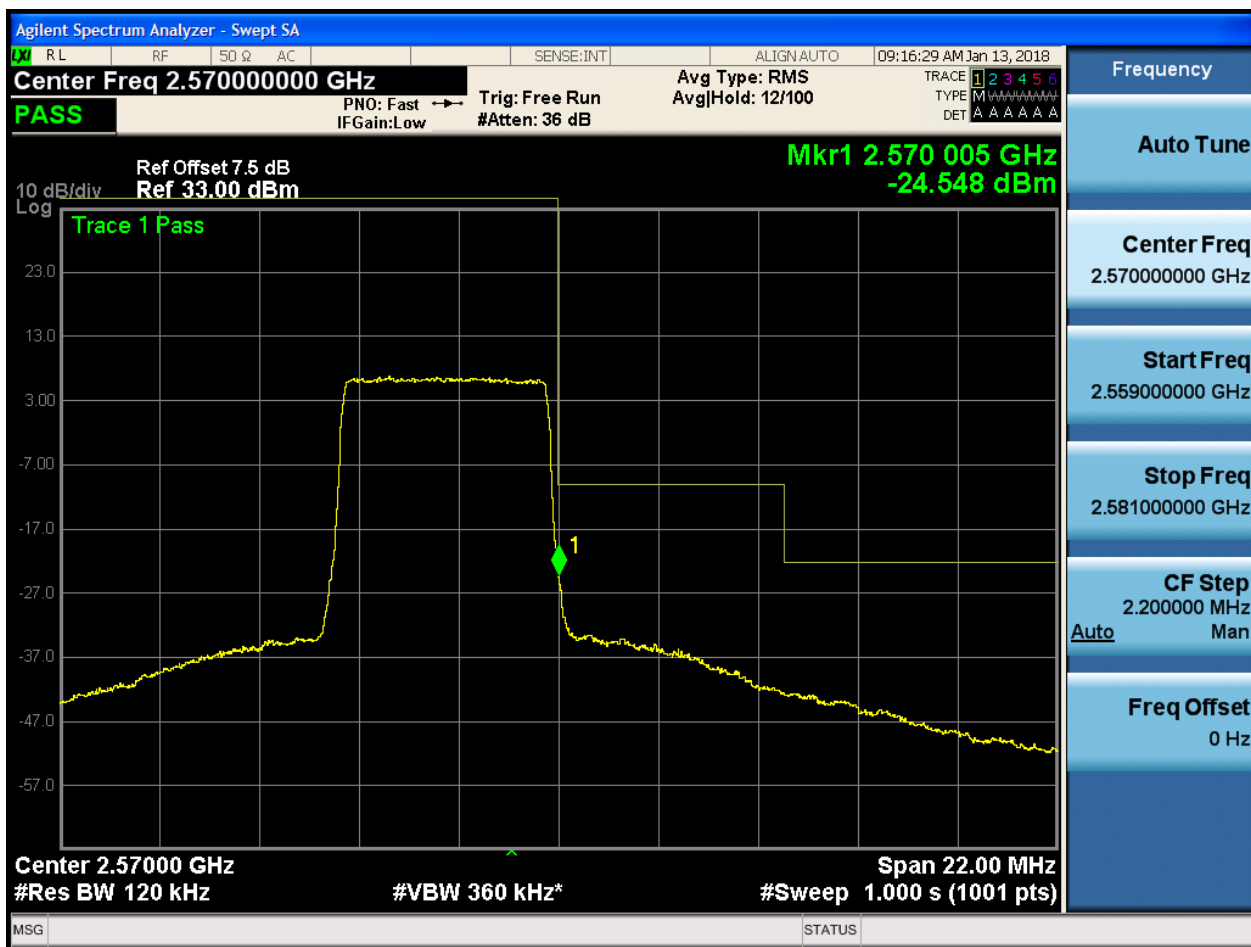
Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.1.2.4 Test RB = RB25#0

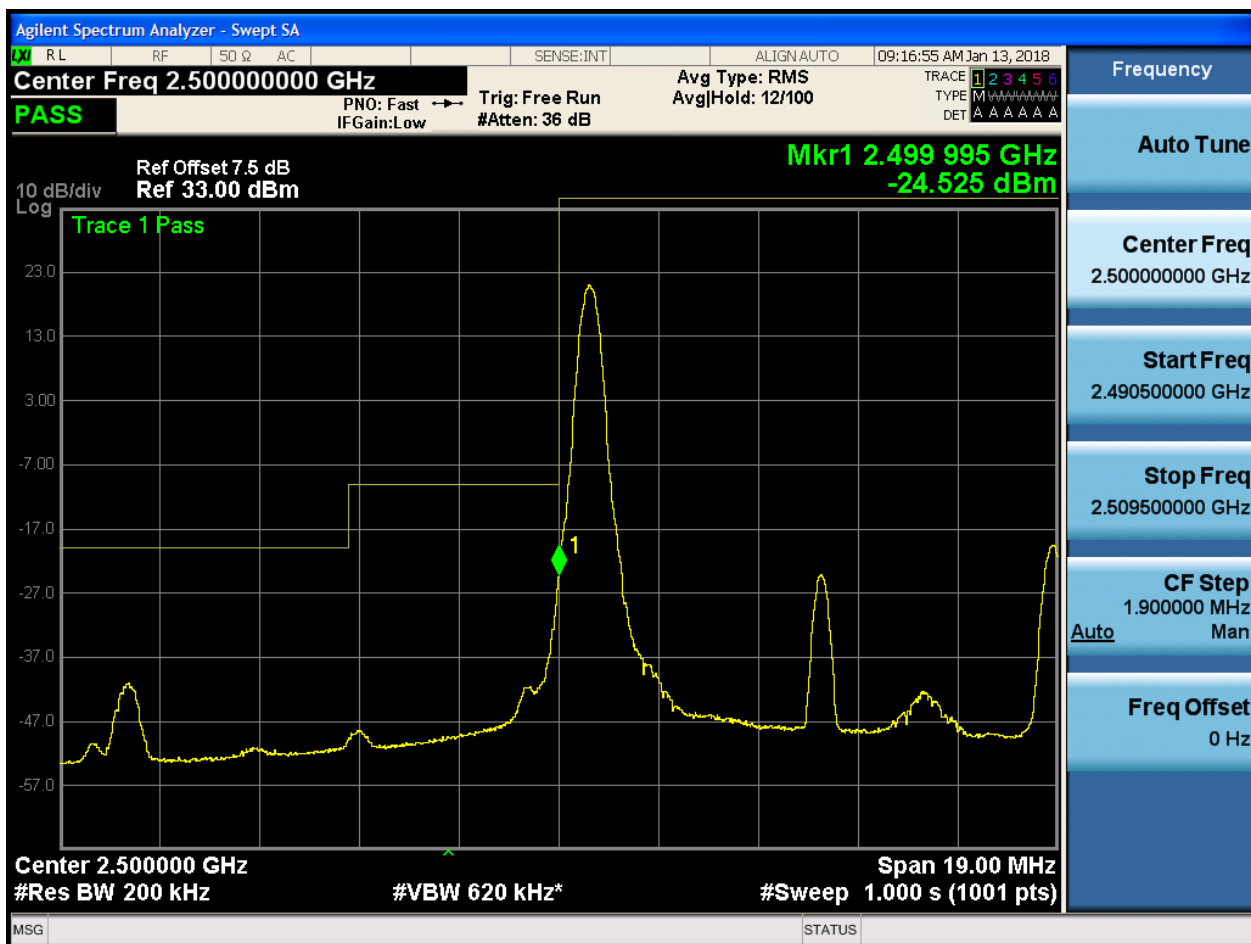




5.1.1.2.2 Test Bandwidth = 10

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 09:17:13 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run Avg/Hold: 12/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-46.542 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 620 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:17:32 AM Jan 13, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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
DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-35.632 dBm

10 dB/div
Log

Trace 1 Pass

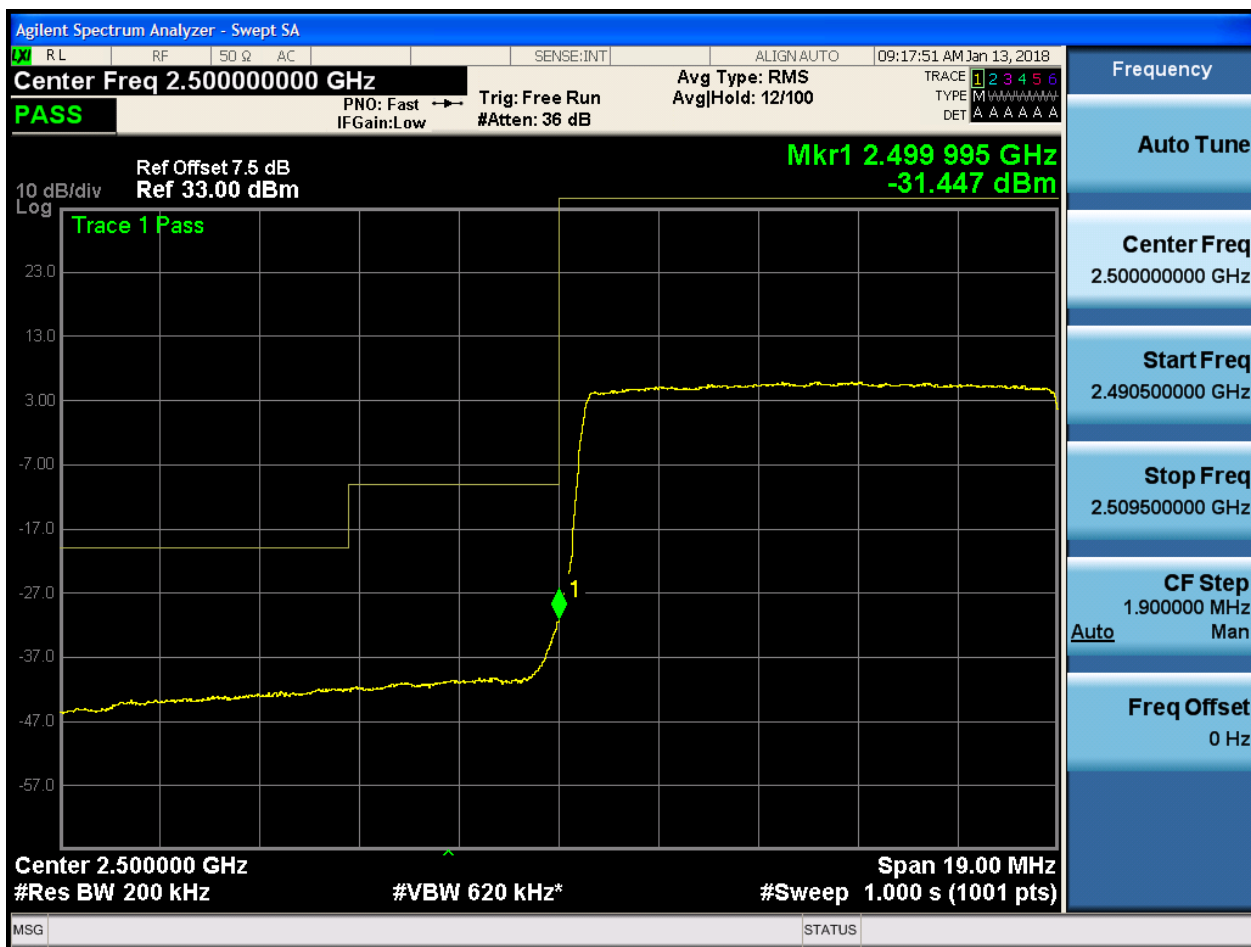
Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 1.000 s (1001 pts)

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



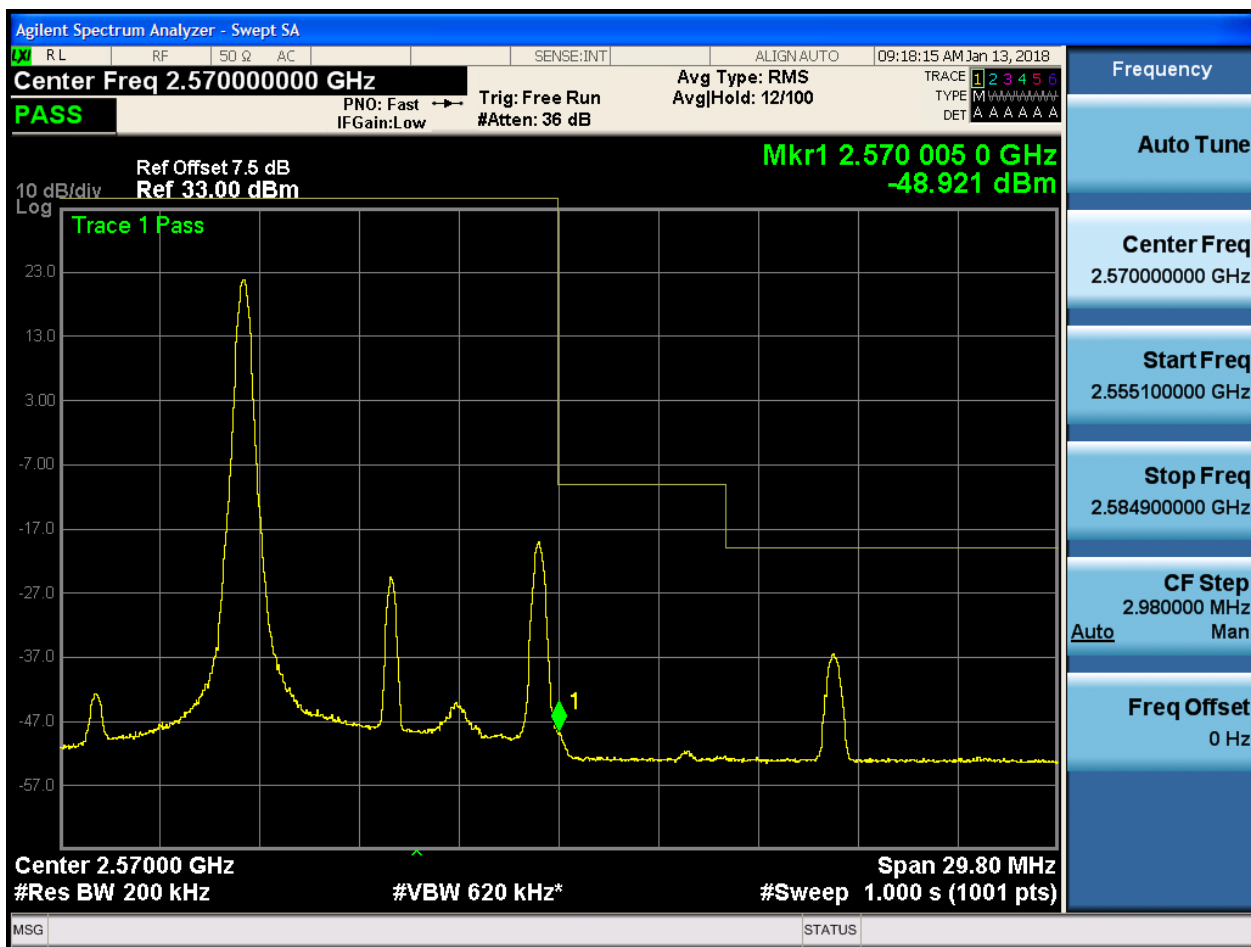
5.1.1.2.2.1.4 Test RB = RB50#0





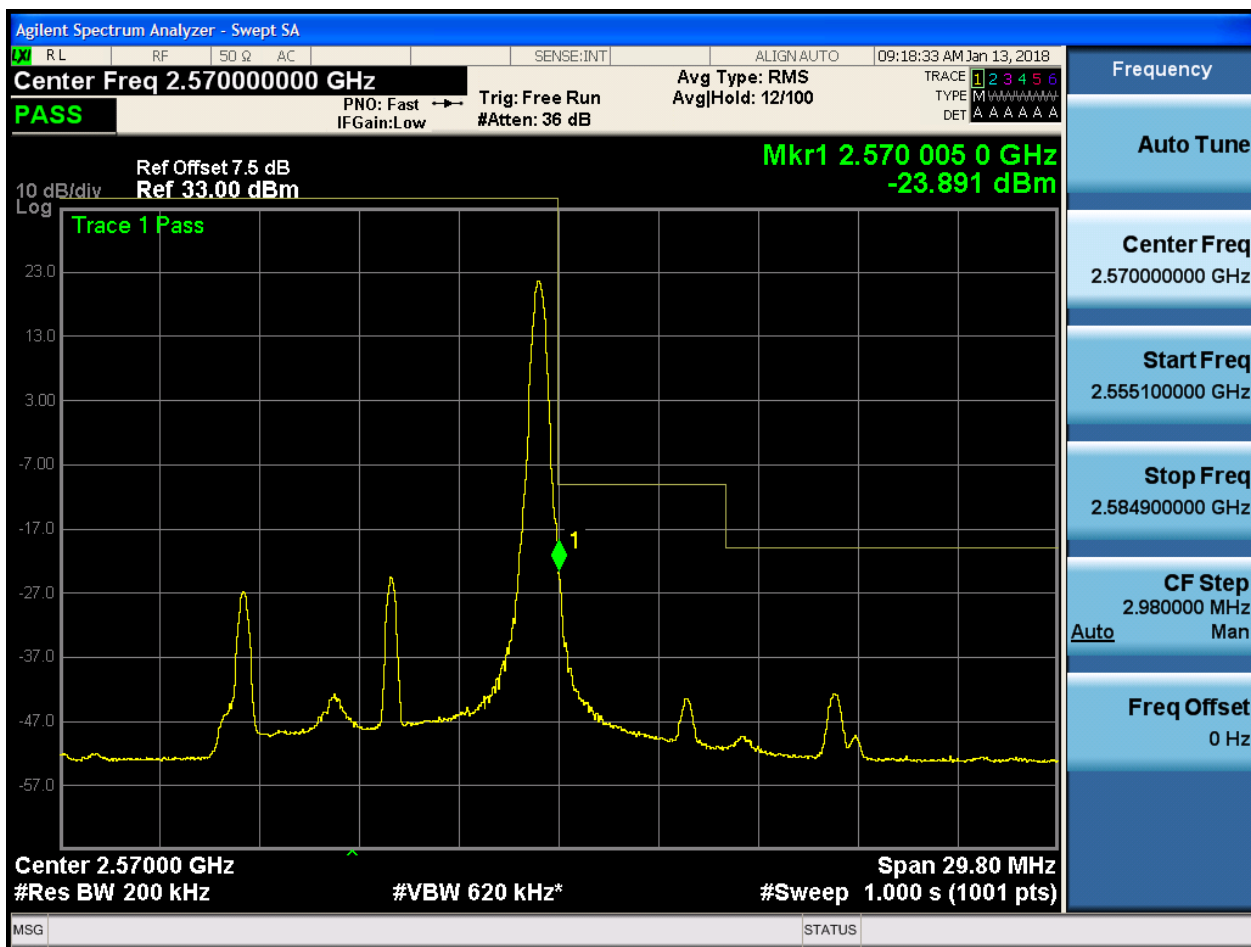
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



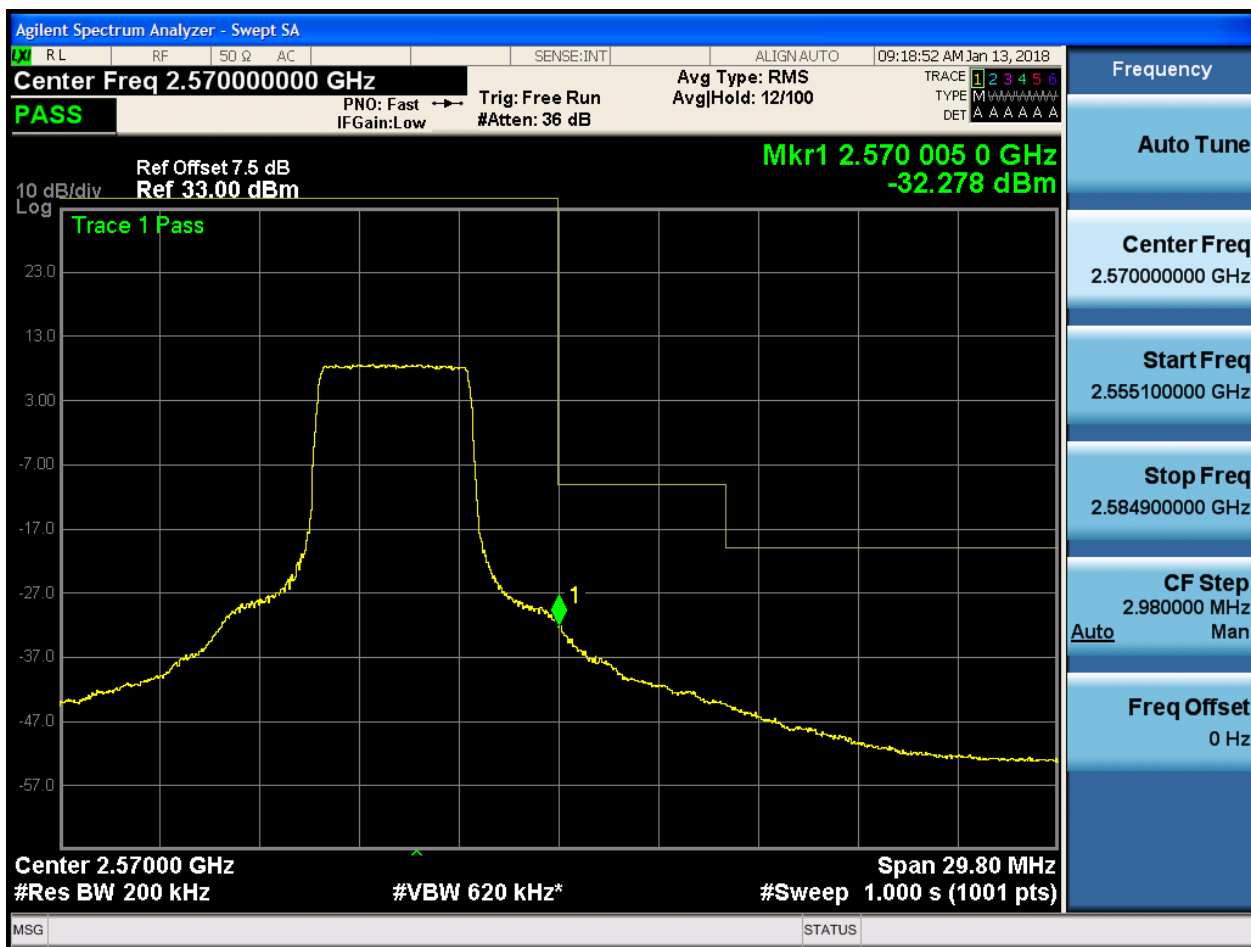


5.1.1.2.2.2 Test RB = RB1#49



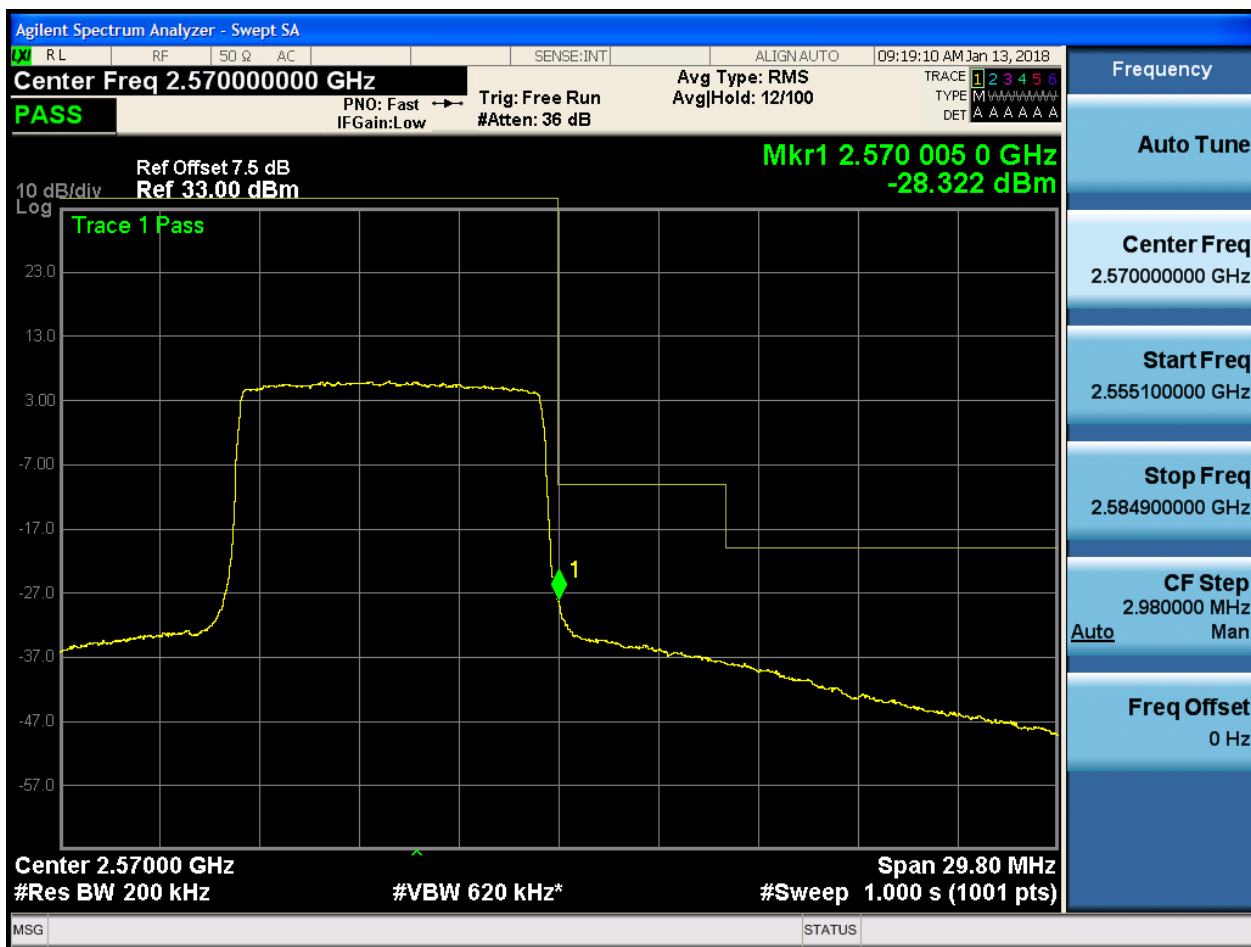


5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0





5.1.1.2.3 Test Bandwidth = 15

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

