



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	20.35	19.75	33	PASS
				RB1#13	20.5	19.98	33	PASS
				RB1#24	20.42	19.88	33	PASS
				RB12#0	21.33	20.97	33	PASS
				RB12#6	21.42	20.89	33	PASS
				RB12#13	21.39	20.90	33	PASS
				RB25#0	21.38	20.79	33	PASS
			MCH	RB1#0	20.54	19.92	33	PASS
				RB1#13	20.66	20.25	33	PASS
				RB1#24	20.6	20.15	33	PASS
				RB12#0	21.57	20.97	33	PASS
				RB12#6	21.61	21.22	33	PASS
				RB12#13	21.57	21.21	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.64	21.03	33	PASS
			HCH	RB1#0	20.71	20.15	33	PASS
				RB1#13	20.76	20.22	33	PASS
				RB1#24	20.67	20.31	33	PASS
				RB12#0	21.78	21.38	33	PASS
				RB12#6	21.82	21.46	33	PASS
				RB12#13	21.75	21.19	33	PASS
				RB25#0	21.77	21.15	33	PASS
		10	LCH	RB1#0	20.39	19.86	33	PASS
				RB1#25	20.66	20.14	33	PASS
				RB1#49	20.44	20.02	33	PASS
				RB25#0	21.5	20.90	33	PASS
				RB25#13	21.54	21.18	33	PASS
				RB25#25	21.6	20.99	33	PASS
				RB50#0	21.52	20.90	33	PASS
			MCH	RB1#0	20.75	20.15	33	PASS
				RB1#25	20.88	20.51	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	20.79	20.31	33	PASS
				RB25#0	21.81	21.24	33	PASS
				RB25#13	21.8	21.32	33	PASS
				RB25#25	21.86	21.47	33	PASS
				RB50#0	21.86	21.35	33	PASS
			HCH	RB1#0	20.84	20.25	33	PASS
				RB1#25	20.98	20.45	33	PASS
				RB1#49	20.79	20.19	33	PASS
				RB25#0	21.86	21.26	33	PASS
				RB25#13	21.83	21.45	33	PASS
				RB25#25	21.84	21.39	33	PASS
				RB50#0	21.86	21.25	33	PASS
		15	LCH	RB1#0	20.3	19.75	33	PASS
				RB1#38	20.45	19.93	33	PASS
				RB1#74	20.35	19.90	33	PASS
				RB36#0	21.53	21.00	33	PASS
				RB36#18	21.6	21.10	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	21.56	20.97	33	PASS
				RB75#0	21.59	21.14	33	PASS
			MCH	RB1#0	20.69	20.34	33	PASS
				RB1#38	20.77	20.45	33	PASS
				RB1#74	20.74	20.40	33	PASS
				RB36#0	21.92	21.32	33	PASS
				RB36#18	21.91	21.42	33	PASS
				RB36#39	21.92	21.33	33	PASS
				RB75#0	21.96	21.38	33	PASS
			HCH	RB1#0	20.83	20.44	33	PASS
				RB1#38	20.89	20.38	33	PASS
				RB1#74	20.74	20.17	33	PASS
				RB36#0	21.93	21.42	33	PASS
				RB36#18	21.91	21.44	33	PASS
				RB36#39	21.86	21.38	33	PASS
				RB75#0	21.97	21.58	33	PASS
		20	LCH	RB1#0	20.12	19.70	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	20.62	20.06	33	PASS
				RB1#99	20.23	19.89	33	PASS
				RB50#0	21.41	20.87	33	PASS
				RB50#25	21.49	20.88	33	PASS
				RB50#50	21.47	20.96	33	PASS
				RB100#0	21.49	21.00	33	PASS
			MCH	RB1#0	20.43	20.04	33	PASS
				RB1#50	20.92	20.50	33	PASS
				RB1#99	20.58	19.97	33	PASS
				RB50#0	21.77	21.39	33	PASS
				RB50#25	21.84	21.40	33	PASS
				RB50#50	21.8	21.45	33	PASS
				RB100#0	21.82	21.37	33	PASS
			HCH	RB1#0	20.48	19.93	33	PASS
				RB1#50	20.94	20.35	33	PASS
				RB1#99	20.46	19.84	33	PASS
				RB50#0	21.88	21.29	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	21.83	21.22	33	PASS
				RB50#50	21.78	21.21	33	PASS
				RB100#0	21.79	21.32	33	PASS
	LTE/TM2	5	LCH	RB1#0	19.49	19.14	33	PASS
				RB1#13	19.68	19.21	33	PASS
				RB1#24	19.57	19.14	33	PASS
				RB12#0	20.35	19.95	33	PASS
				RB12#6	20.48	19.86	33	PASS
				RB12#13	20.42	19.98	33	PASS
				RB25#0	20.3	19.71	33	PASS
			MCH	RB1#0	19.72	19.26	33	PASS
				RB1#13	19.82	19.45	33	PASS
				RB1#24	19.73	19.23	33	PASS
				RB12#0	20.73	20.17	33	PASS
				RB12#6	20.79	20.34	33	PASS
				RB12#13	20.74	20.39	33	PASS
				RB25#0	20.83	20.33	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	20.2	19.64	33	PASS
				RB1#13	20.31	19.93	33	PASS
				RB1#24	20.16	19.73	33	PASS
				RB12#0	20.9	20.47	33	PASS
				RB12#6	20.83	20.46	33	PASS
				RB12#13	20.78	20.23	33	PASS
				RB25#0	20.79	20.39	33	PASS
		10	LCH	RB1#0	19.72	19.24	33	PASS
				RB1#25	19.94	19.49	33	PASS
				RB1#49	19.8	19.32	33	PASS
				RB25#0	20.37	19.80	33	PASS
				RB25#13	20.46	19.99	33	PASS
				RB25#25	20.54	20.19	33	PASS
				RB50#0	20.5	20.11	33	PASS
			MCH	RB1#0	19.92	19.45	33	PASS
				RB1#25	20.11	19.77	33	PASS
				RB1#49	20.01	19.45	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.81	20.45	33	PASS
				RB25#13	20.83	20.24	33	PASS
				RB25#25	20.83	20.28	33	PASS
				RB50#0	20.86	20.52	33	PASS
			HCH	RB1#0	19.89	19.40	33	PASS
				RB1#25	20.08	19.47	33	PASS
				RB1#49	19.86	19.47	33	PASS
				RB25#0	20.94	20.43	33	PASS
				RB25#13	20.95	20.37	33	PASS
				RB25#25	20.87	20.41	33	PASS
				RB50#0	20.82	20.23	33	PASS
		15	LCH	RB1#0	19.69	19.21	33	PASS
				RB1#38	19.86	19.51	33	PASS
				RB1#74	19.74	19.40	33	PASS
				RB36#0	20.46	20.08	33	PASS
				RB36#18	20.55	20.12	33	PASS
				RB36#39	20.57	20.10	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.48	20.10	33	PASS
			MCH	RB1#0	19.81	19.48	33	PASS
				RB1#38	19.96	19.58	33	PASS
				RB1#74	19.82	19.31	33	PASS
				RB36#0	20.76	20.38	33	PASS
				RB36#18	20.77	20.21	33	PASS
				RB36#39	20.85	20.41	33	PASS
				RB75#0	20.85	20.50	33	PASS
			HCH	RB1#0	19.88	19.42	33	PASS
				RB1#38	19.9	19.36	33	PASS
				RB1#74	19.81	19.44	33	PASS
				RB36#0	20.95	20.38	33	PASS
				RB36#18	20.93	20.38	33	PASS
				RB36#39	20.87	20.26	33	PASS
				RB75#0	20.9	20.45	33	PASS
		20	LCH	RB1#0	19.62	19.09	33	PASS
				RB1#50	20.16	19.73	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	19.78	19.36	33	PASS
				RB50#0	20.43	20.08	33	PASS
				RB50#25	20.51	19.96	33	PASS
				RB50#50	20.48	19.90	33	PASS
				RB100#0	20.46	19.84	33	PASS
			MCH	RB1#0	19.71	19.28	33	PASS
				RB1#50	20.24	19.88	33	PASS
				RB1#99	19.86	19.43	33	PASS
				RB50#0	20.78	20.21	33	PASS
				RB50#25	20.84	20.24	33	PASS
				RB50#50	20.79	20.38	33	PASS
				RB100#0	20.8	20.47	33	PASS
			HCH	RB1#0	19.7	19.17	33	PASS
				RB1#50	20.11	19.51	33	PASS
				RB1#99	19.67	19.25	33	PASS
				RB50#0	20.84	20.29	33	PASS
				RB50#25	20.87	20.26	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.77	20.20	33	PASS
				RB100#0	20.79	20.33	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:

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

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

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

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	4.49	13	PASS
				RB1#13	4.46	13	PASS
				RB1#24	4.57	13	PASS
				RB12#0	4.99	13	PASS
				RB12#6	4.88	13	PASS
				RB12#13	5.05	13	PASS
				RB25#0	5.23	13	PASS
			MCH	RB1#0	4.74	13	PASS
				RB1#13	4.74	13	PASS
				RB1#24	4.81	13	PASS
				RB12#0	5.05	13	PASS
				RB12#6	4.91	13	PASS
				RB12#13	5.11	13	PASS
				RB25#0	5.65	13	PASS
			HCH	RB1#0	5.21	13	PASS
				RB1#13	5.2	13	PASS
				RB1#24	5.16	13	PASS
				RB12#0	5.24	13	PASS
				RB12#6	5.15	13	PASS
				RB12#13	5.26	13	PASS
				RB25#0	5.67	13	PASS
		10	LCH	RB1#0	4.62	13	PASS
				RB1#25	4.59	13	PASS
				RB1#49	4.79	13	PASS
				RB25#0	4.95	13	PASS
				RB25#13	4.94	13	PASS
				RB25#25	5.08	13	PASS
				RB50#0	5.58	13	PASS
			MCH	RB1#0	4.55	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.66	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.09	13	PASS
				RB25#13	5	13	PASS
				RB25#25	5.19	13	PASS
				RB50#0	5.69	13	PASS
			HCH	RB1#0	5.11	13	PASS
				RB1#25	5.03	13	PASS
				RB1#49	5.12	13	PASS
				RB25#0	5.33	13	PASS
				RB25#13	5.31	13	PASS
				RB25#25	5.39	13	PASS
				RB50#0	5.52	13	PASS
		15	LCH	RB1#0	4.65	13	PASS
				RB1#38	4.72	13	PASS
				RB1#74	4.85	13	PASS
				RB36#0	5.15	13	PASS
				RB36#18	5.15	13	PASS
				RB36#39	5.41	13	PASS
				RB75#0	5.99	13	PASS
			MCH	RB1#0	4.81	13	PASS
				RB1#38	4.81	13	PASS
				RB1#74	4.97	13	PASS
				RB36#0	5	13	PASS
				RB36#18	4.87	13	PASS
				RB36#39	5.13	13	PASS
				RB75#0	5.67	13	PASS
			HCH	RB1#0	5.15	13	PASS
				RB1#38	5.13	13	PASS
				RB1#74	5.15	13	PASS
				RB36#0	5.33	13	PASS
				RB36#18	5.28	13	PASS
				RB36#39	5.36	13	PASS
				RB75#0	5.97	13	PASS
		20	LCH	RB1#0	5.09	13	PASS
				RB1#50	5.08	13	PASS
				RB1#99	5.28	13	PASS
				RB50#0	5.39	13	PASS
				RB50#25	5.37	13	PASS
				RB50#50	5.52	13	PASS
				RB100#0	5.72	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	5.12	13	PASS
				RB1#50	4.94	13	PASS
				RB1#99	5.32	13	PASS
				RB50#0	5.12	13	PASS
				RB50#25	5.09	13	PASS
				RB50#50	5.32	13	PASS
				RB100#0	5.88	13	PASS
			HCH	RB1#0	5.19	13	PASS
				RB1#50	5.04	13	PASS
				RB1#99	5.26	13	PASS
				RB50#0	5.42	13	PASS
				RB50#25	5.38	13	PASS
				RB50#50	5.42	13	PASS
				RB100#0	5.91	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.79	13	PASS
				RB1#13	5.81	13	PASS
				RB1#24	5.91	13	PASS
				RB12#0	5.81	13	PASS
				RB12#6	5.69	13	PASS
				RB12#13	5.84	13	PASS
				RB25#0	6.35	13	PASS
			MCH	RB1#0	5.74	13	PASS
				RB1#13	5.75	13	PASS
				RB1#24	5.81	13	PASS
				RB12#0	5.73	13	PASS
				RB12#6	5.65	13	PASS
				RB12#13	5.79	13	PASS
				RB25#0	6.59	13	PASS
		10	HCH	RB1#0	4.95	13	PASS
				RB1#13	4.93	13	PASS
				RB1#24	4.92	13	PASS
				RB12#0	5.88	13	PASS
				RB12#6	5.79	13	PASS
				RB12#13	5.9	13	PASS
				RB25#0	6.67	13	PASS
			LCH	RB1#0	6.04	13	PASS
				RB1#25	6.02	13	PASS
				RB1#49	6.2	13	PASS
				RB25#0	6.3	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	6.17	13	PASS
				RB25#25	6.42	13	PASS
				RB50#0	6.69	13	PASS
			MCH	RB1#0	5.69	13	PASS
				RB1#25	5.64	13	PASS
				RB1#49	5.8	13	PASS
				RB25#0	6.12	13	PASS
				RB25#13	5.99	13	PASS
				RB25#25	6.22	13	PASS
				RB50#0	6.39	13	PASS
			HCH	RB1#0	5.71	13	PASS
				RB1#25	5.67	13	PASS
				RB1#49	5.74	13	PASS
				RB25#0	6.26	13	PASS
				RB25#13	6.25	13	PASS
				RB25#25	6.32	13	PASS
				RB50#0	6.46	13	PASS
		15	LCH	RB1#0	6.04	13	PASS
				RB1#38	6.16	13	PASS
				RB1#74	6.31	13	PASS
				RB36#0	6.36	13	PASS
				RB36#18	6.27	13	PASS
				RB36#39	6.53	13	PASS
				RB75#0	6.74	13	PASS
			MCH	RB1#0	6.19	13	PASS
				RB1#38	6.16	13	PASS
				RB1#74	6.33	13	PASS
				RB36#0	6.15	13	PASS
				RB36#18	6.02	13	PASS
				RB36#39	6.28	13	PASS
				RB75#0	6.55	13	PASS
			HCH	RB1#0	5.79	13	PASS
				RB1#38	5.81	13	PASS
				RB1#74	5.88	13	PASS
				RB36#0	6.6	13	PASS
				RB36#18	6.52	13	PASS
				RB36#39	6.6	13	PASS
				RB75#0	6.8	13	PASS
		20	LCH	RB1#0	4.83	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.85	13	PASS
				RB1#99	4.98	13	PASS
				RB50#0	6.35	13	PASS
				RB50#25	6.3	13	PASS
				RB50#50	6.52	13	PASS
				RB100#0	6.65	13	PASS
			MCH	RB1#0	5.84	13	PASS
				RB1#50	5.75	13	PASS
				RB1#99	6.01	13	PASS
				RB50#0	6.25	13	PASS
				RB50#25	6.14	13	PASS
				RB50#50	6.41	13	PASS
				RB100#0	6.68	13	PASS
			HCH	RB1#0	6.52	13	PASS
				RB1#50	6.34	13	PASS
				RB1#99	6.77	13	PASS
				RB50#0	6.59	13	PASS
				RB50#25	6.54	13	PASS
				RB50#50	6.73	13	PASS
				RB100#0	6.88	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

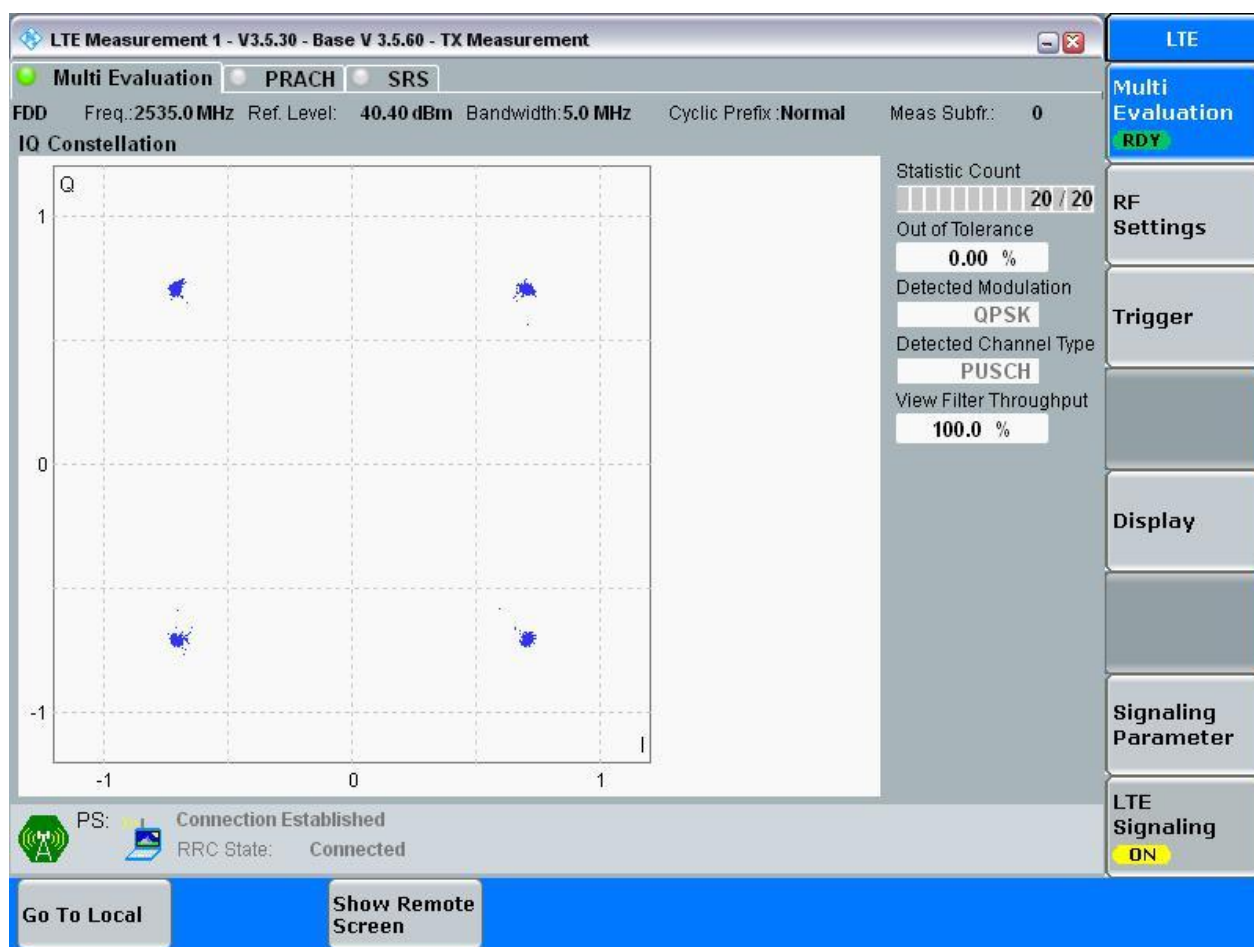
3.1.1 Test Band = BAND7

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

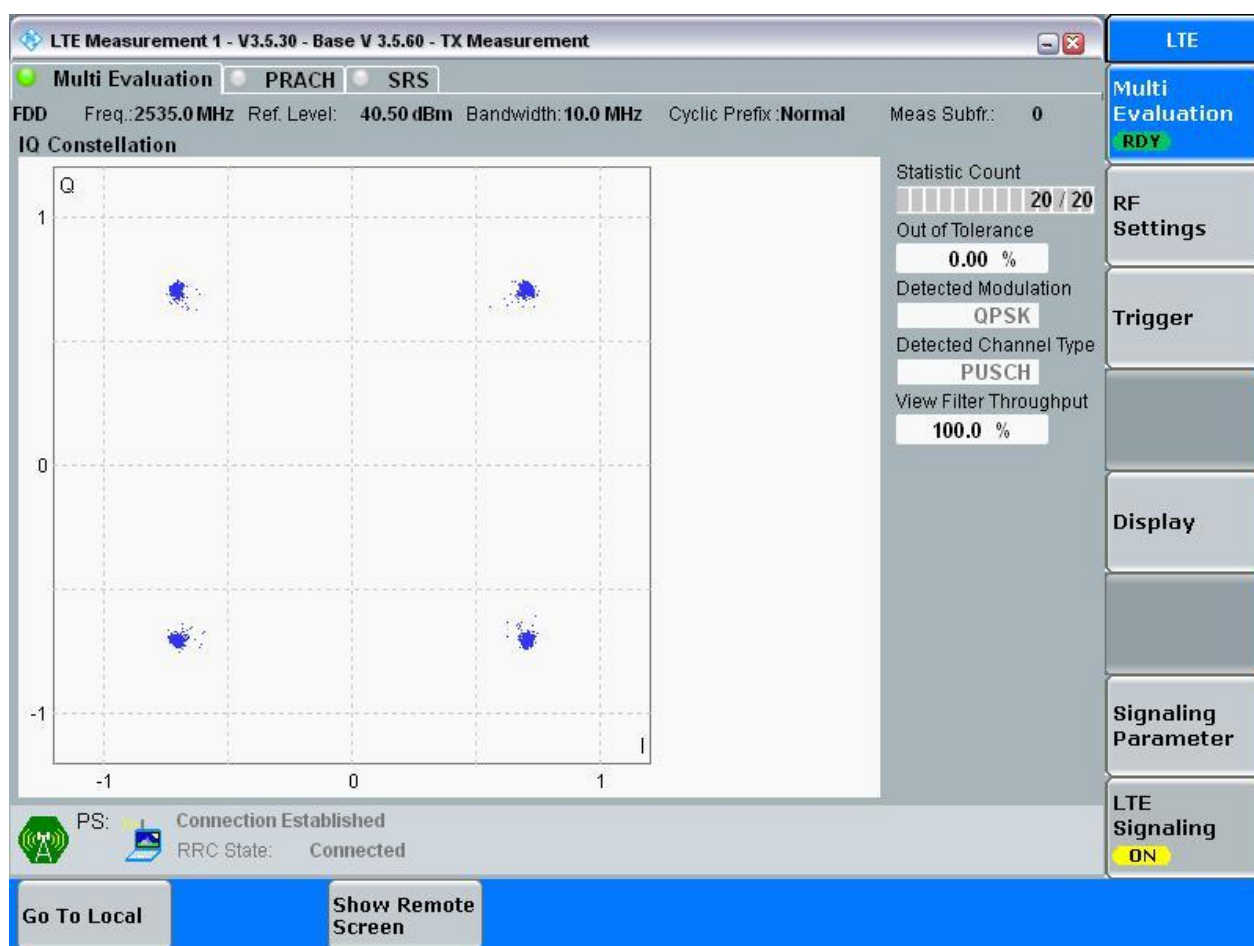
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

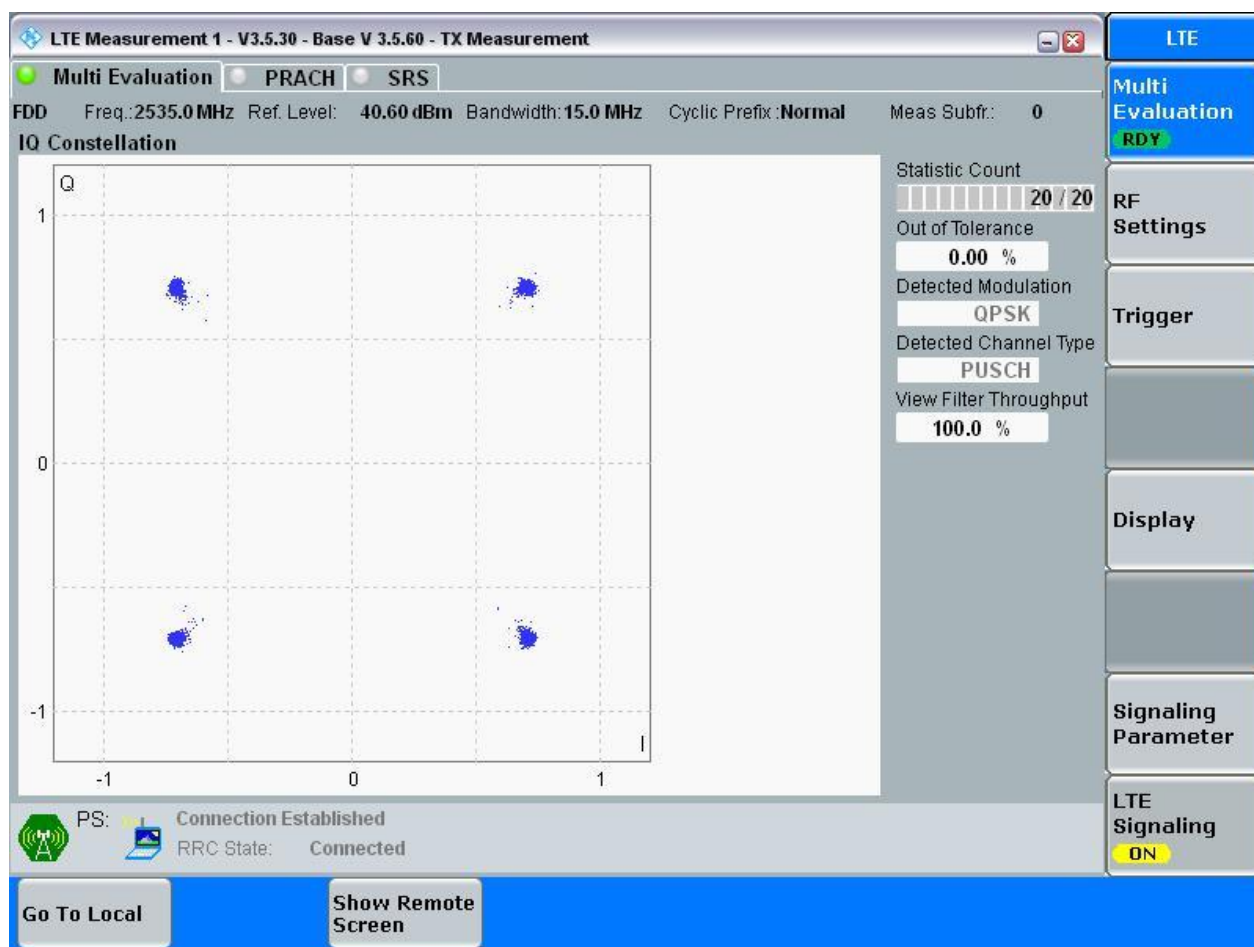
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

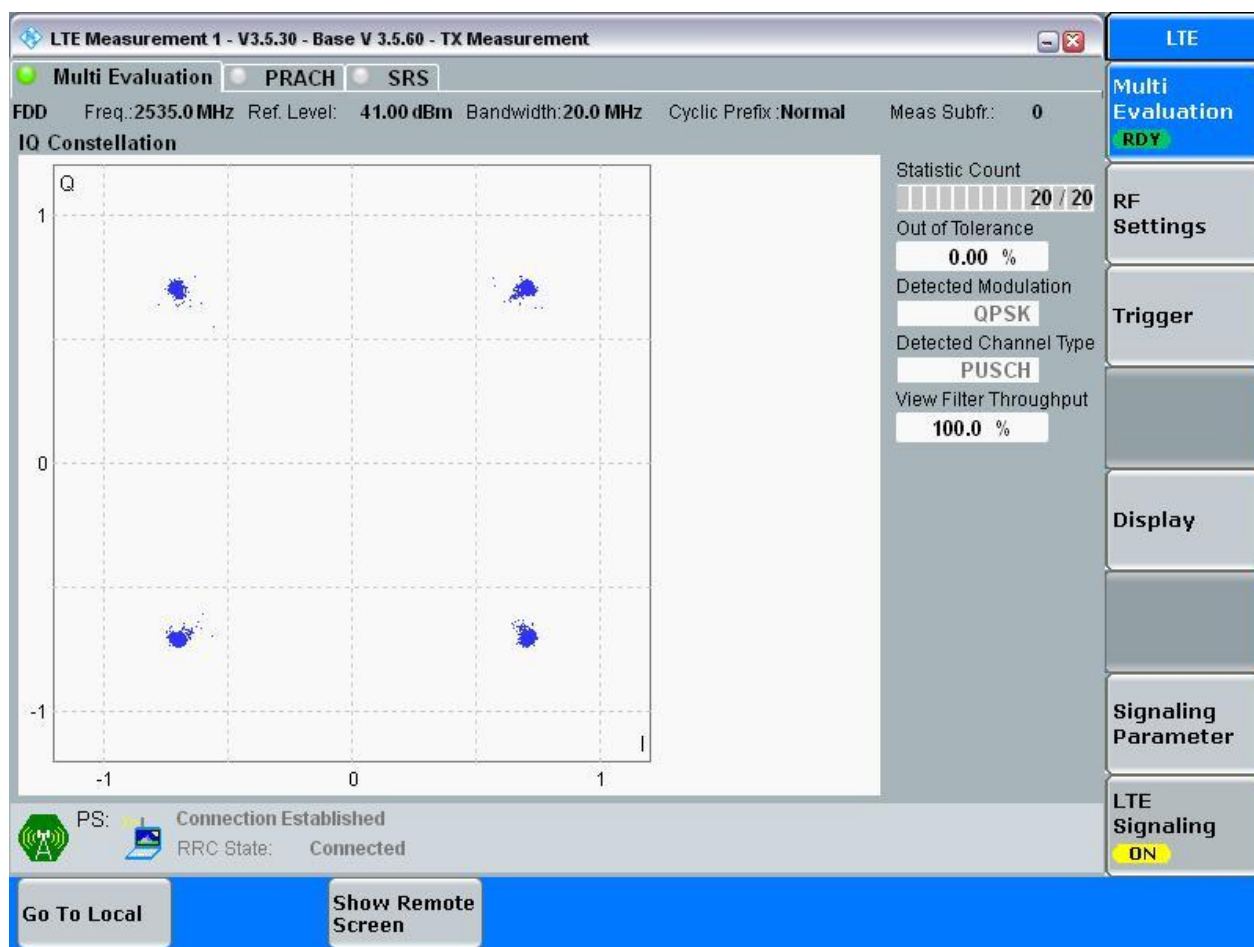
3.1.1.1.3.1.1 Test RB = RB75#0



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

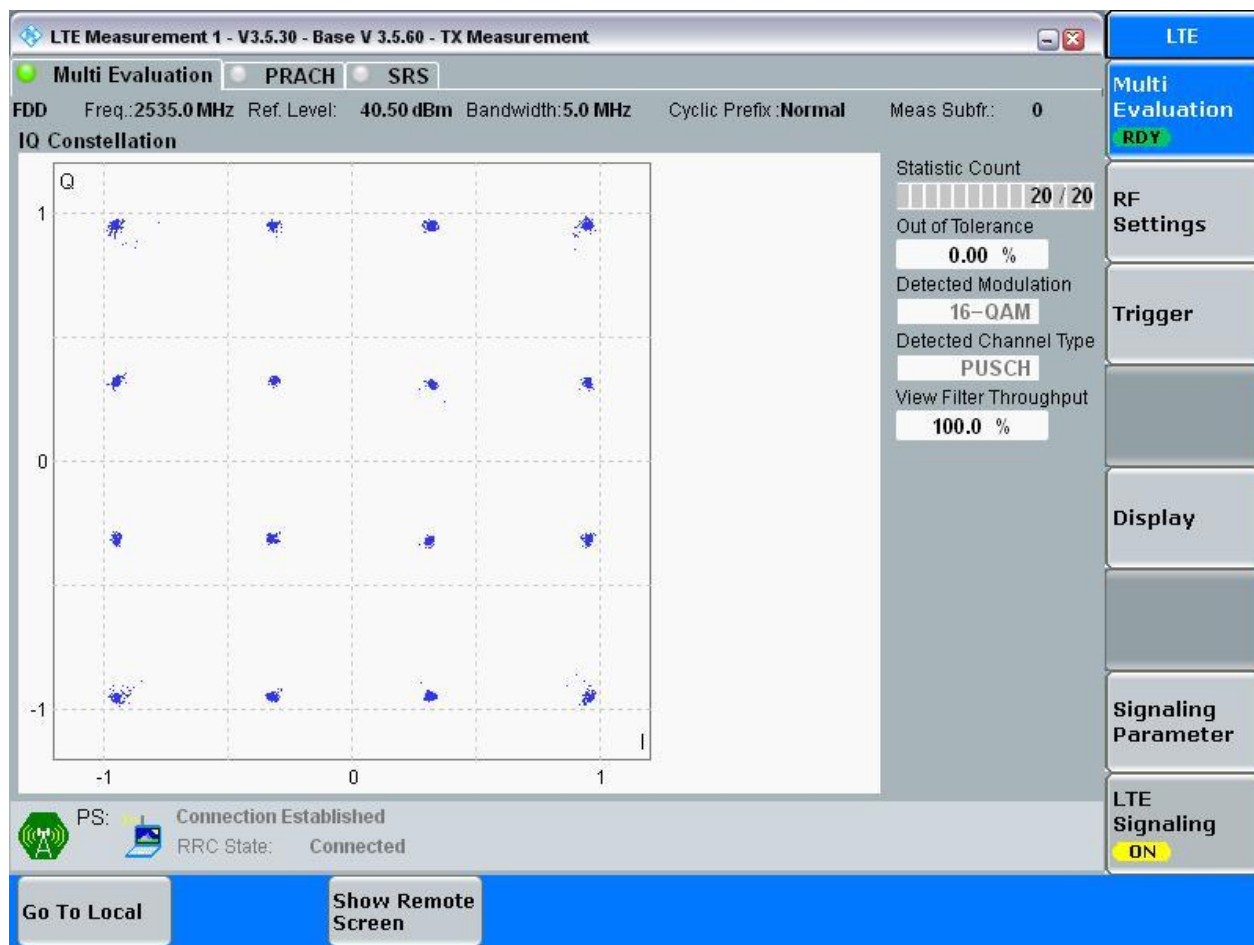


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

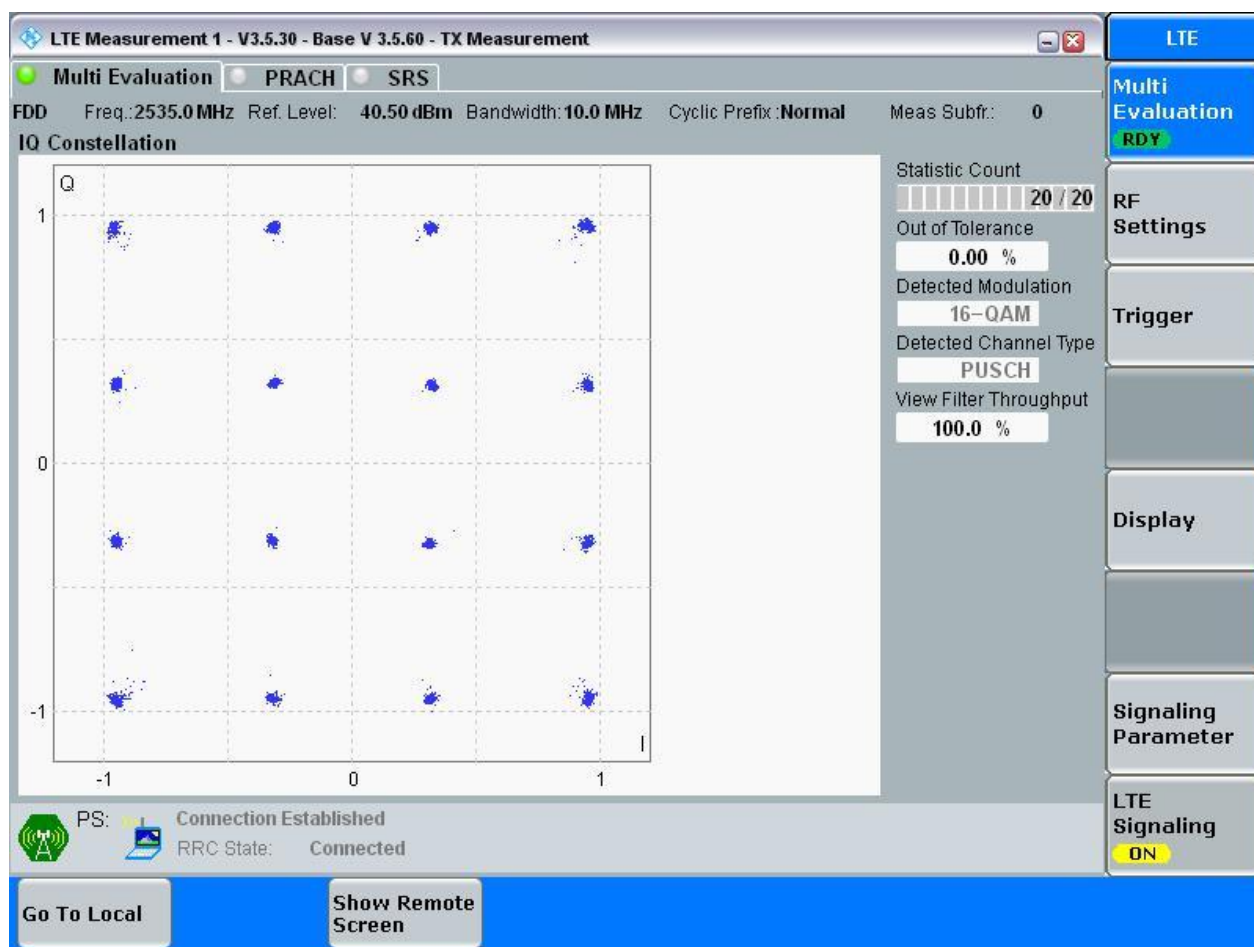
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

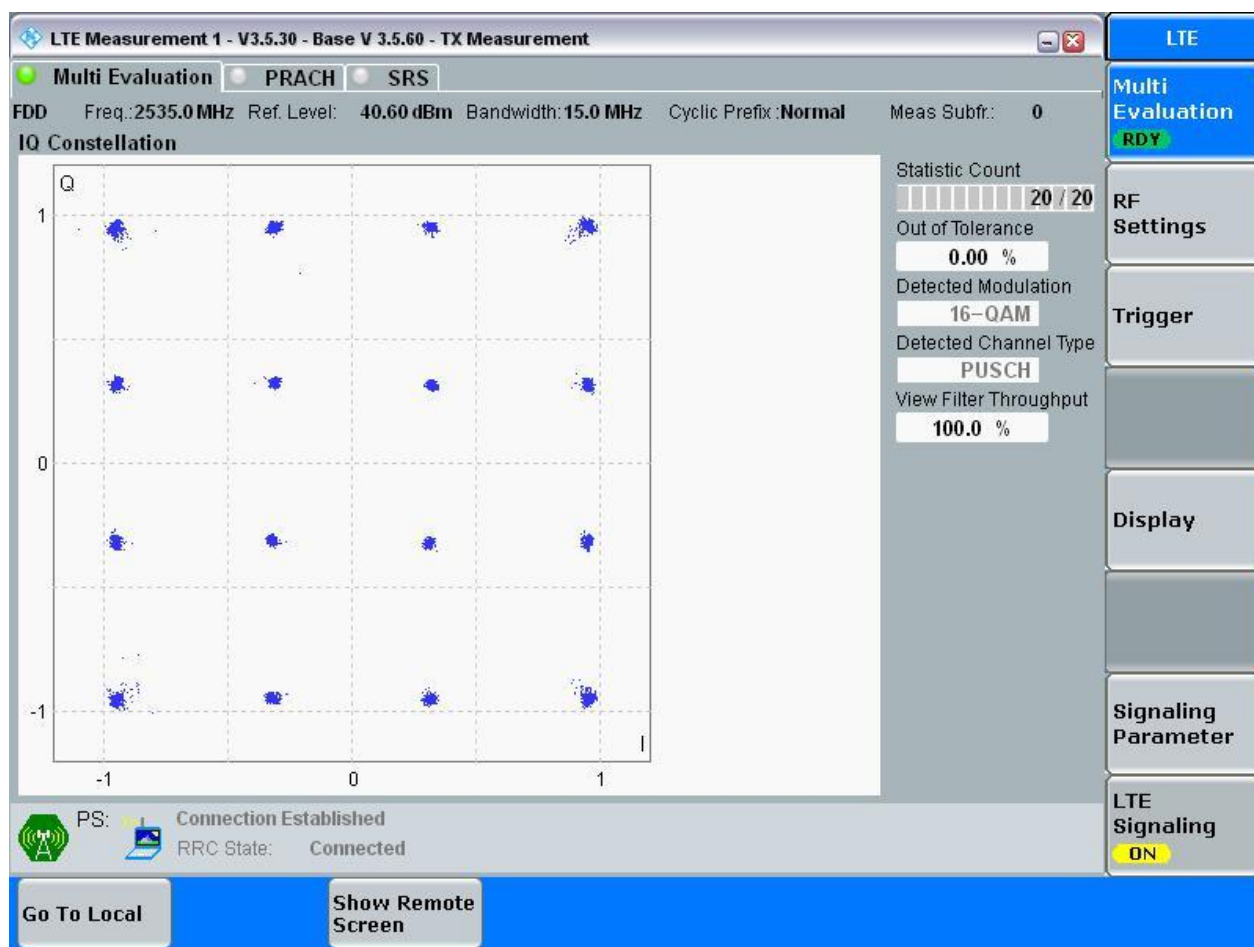
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

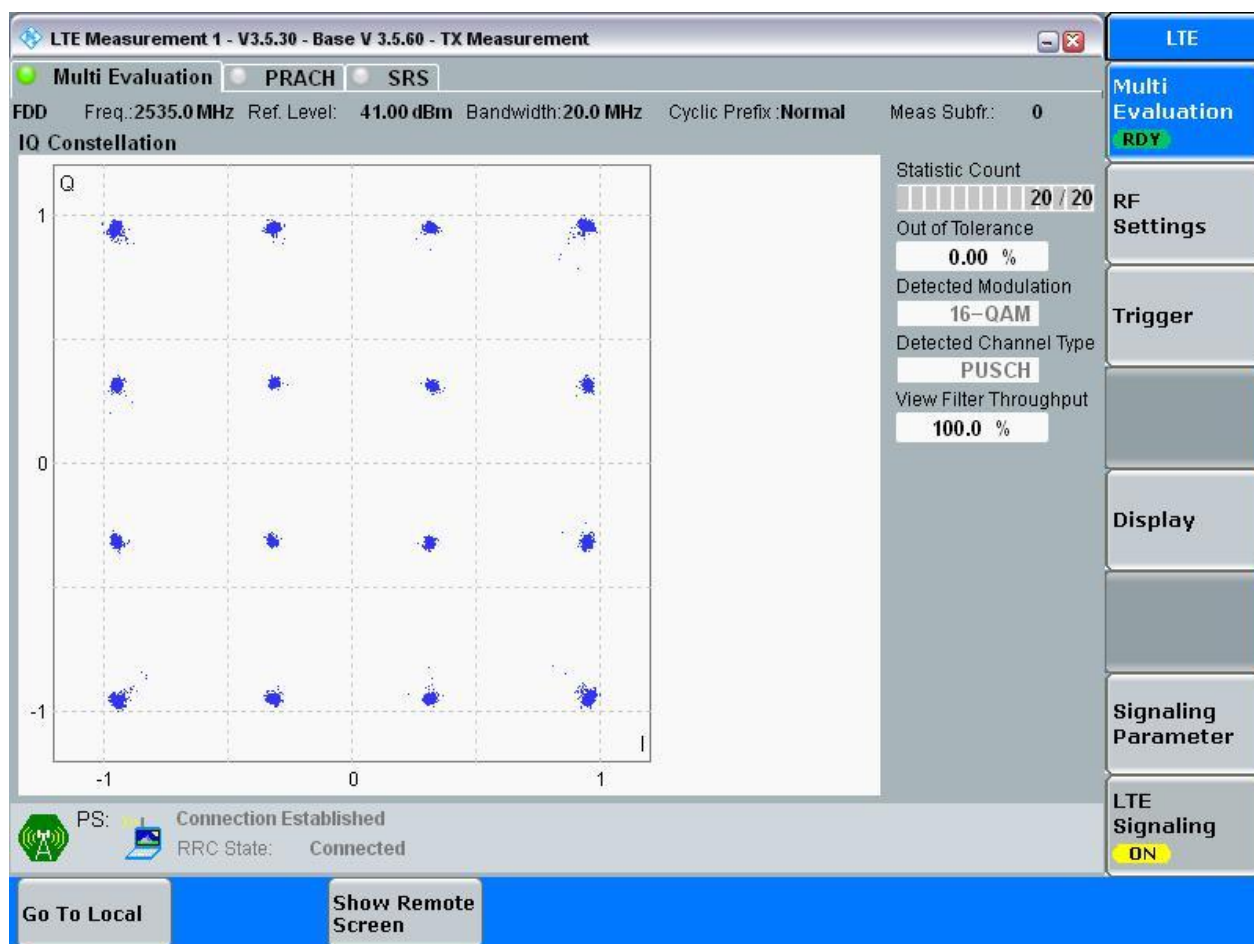
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.53	5.25	Pass
			MCH	RB25#0	4.51	5.17	Pass
			HCH	RB25#0	4.52	5.19	Pass
		10	LCH	RB50#0	9.02	10.20	Pass
			MCH	RB50#0	9.00	10.19	Pass
			HCH	RB50#0	9.02	10.28	Pass
		15	LCH	RB75#0	13.52	15.16	Pass
			MCH	RB75#0	13.52	15.22	Pass
			HCH	RB75#0	13.50	15.09	Pass
		20	LCH	RB100#0	17.97	19.78	Pass
			MCH	RB100#0	17.98	19.98	Pass
			HCH	RB100#0	17.99	19.66	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	5.22	Pass
			MCH	RB25#0	4.51	5.12	Pass
			HCH	RB25#0	4.51	5.16	Pass
		10	LCH	RB50#0	9.01	10.15	Pass
			MCH	RB50#0	9.02	10.16	Pass
			HCH	RB50#0	8.99	10.15	Pass
		15	LCH	RB75#0	13.50	15.38	Pass
			MCH	RB75#0	13.48	15.06	Pass
			HCH	RB75#0	13.50	15.02	Pass
		20	LCH	RB100#0	17.99	19.75	Pass
			MCH	RB100#0	17.95	19.90	Pass
			HCH	RB100#0	17.97	19.84	Pass



Part II - Test Plots

4.1 For LTE

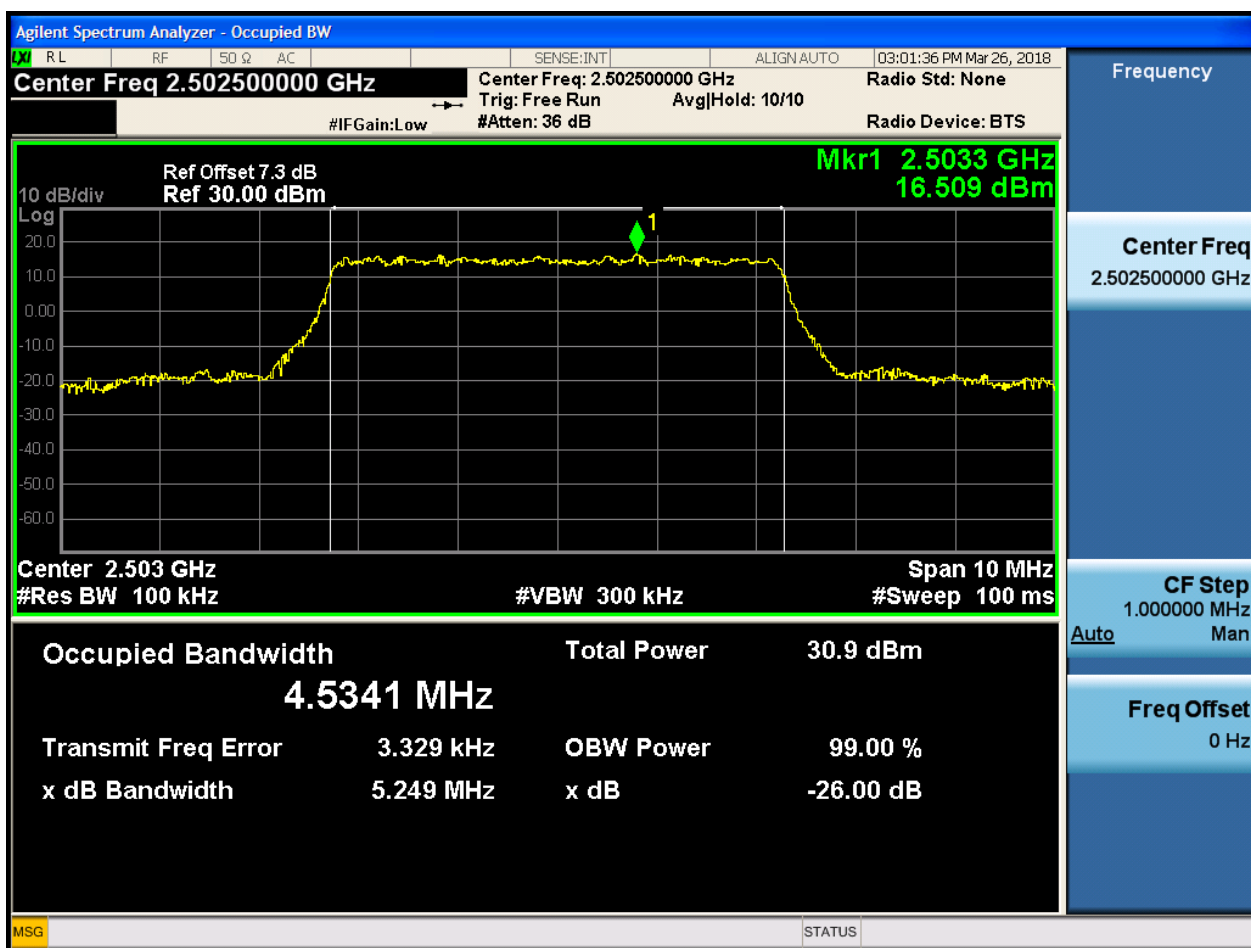
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

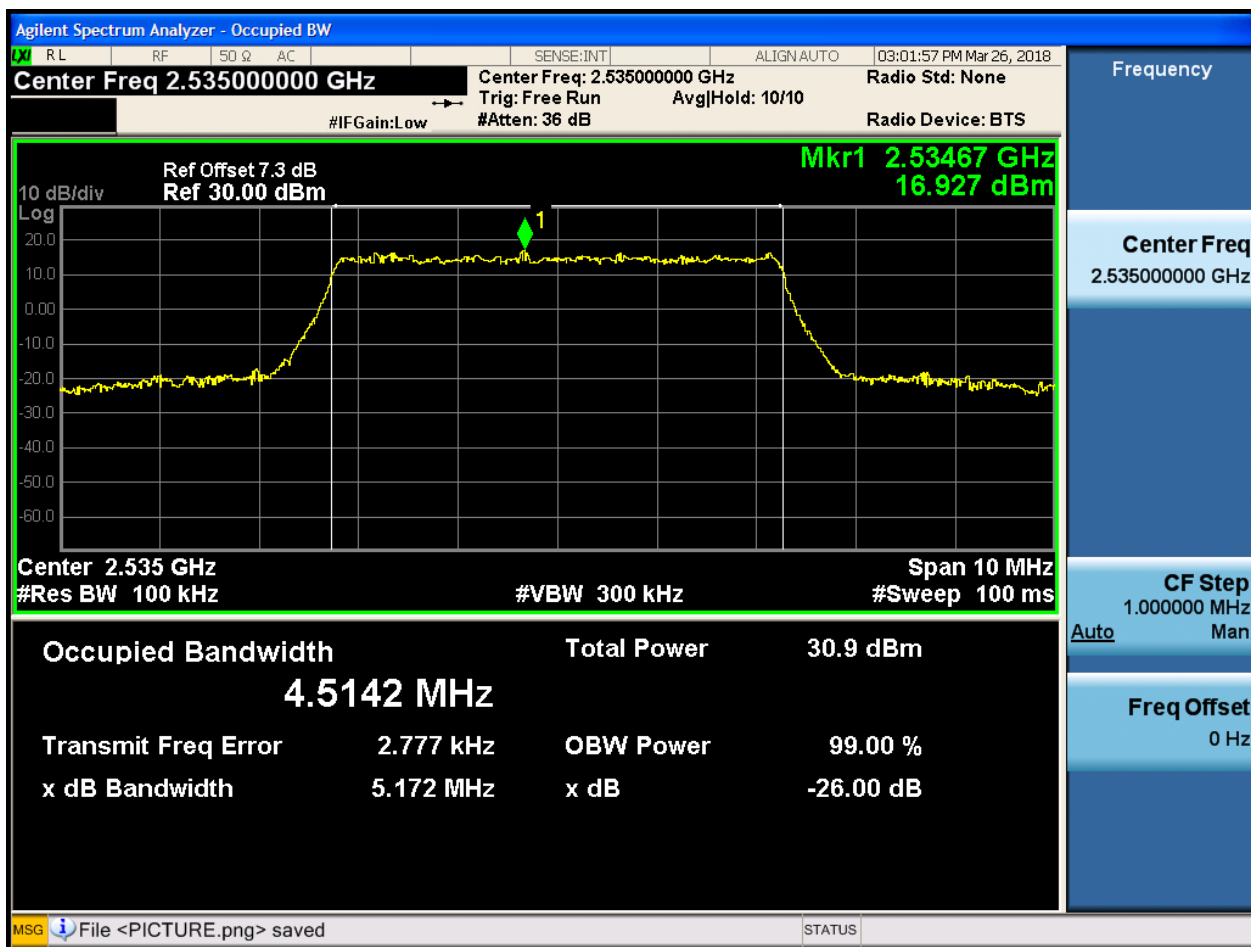
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0



4.1.1.1.1.2 Test Channel = MCH

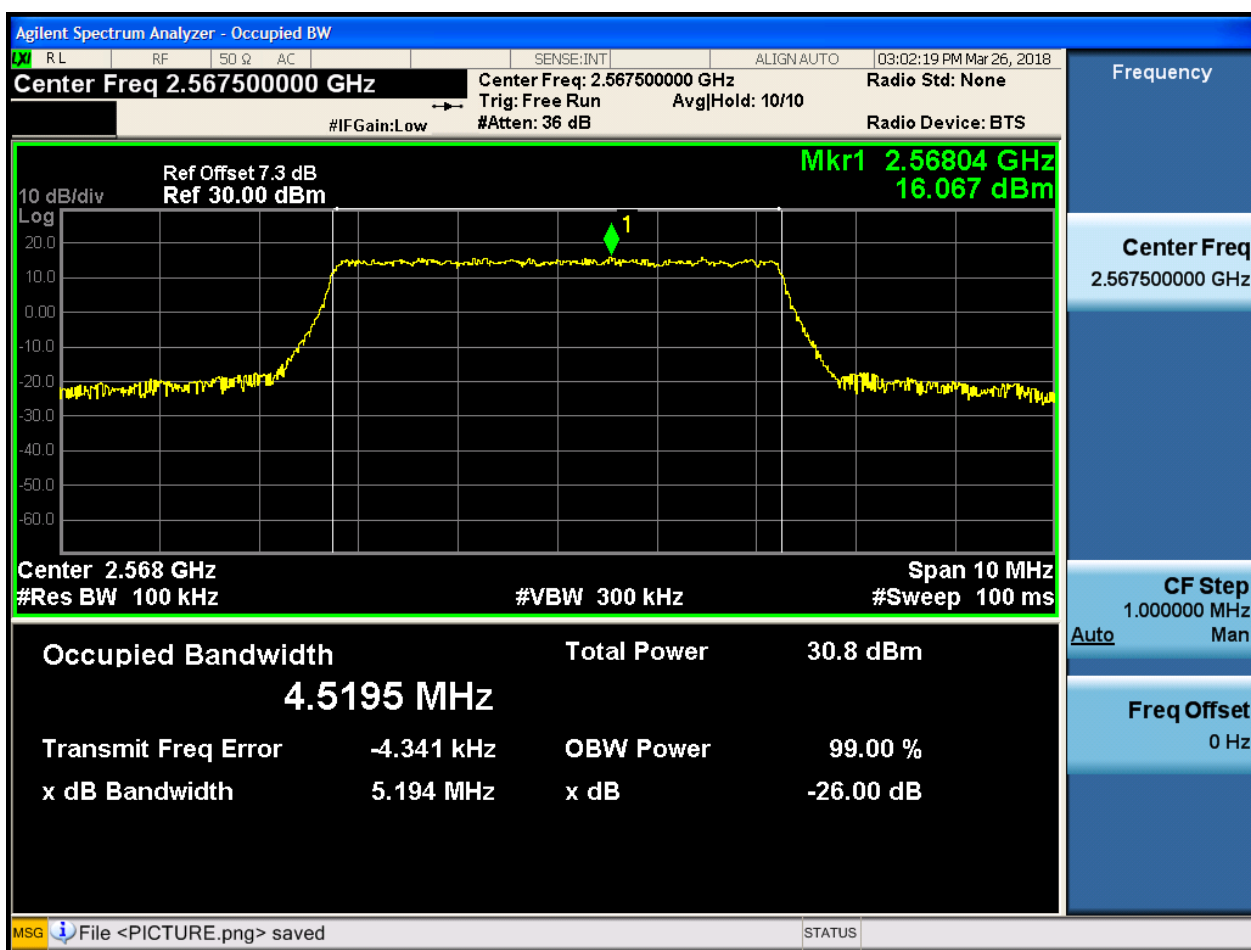
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

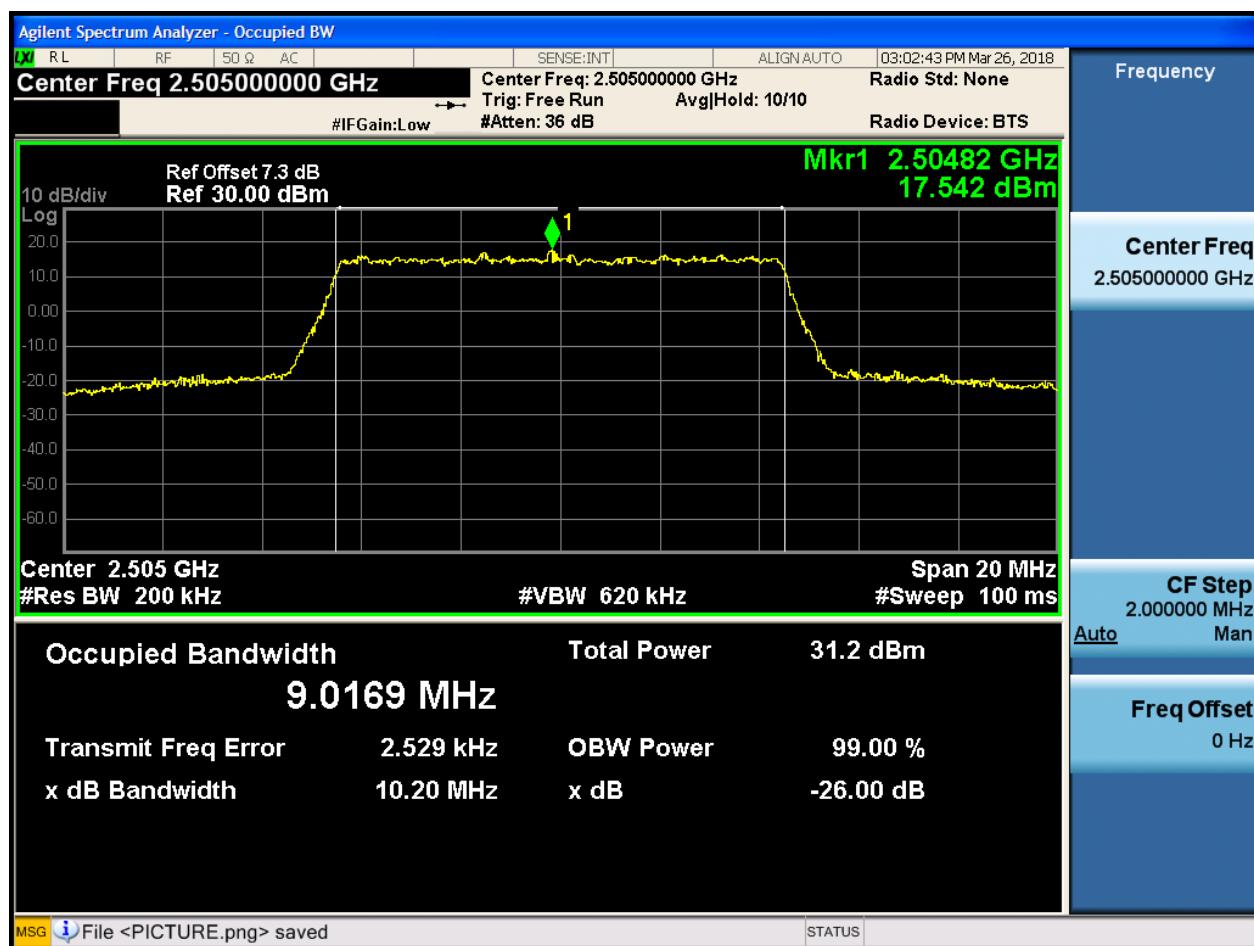
4.1.1.1.1.3.1 Test RB = RB25#0



4.1.1.1.2 Test Bandwidth = 10

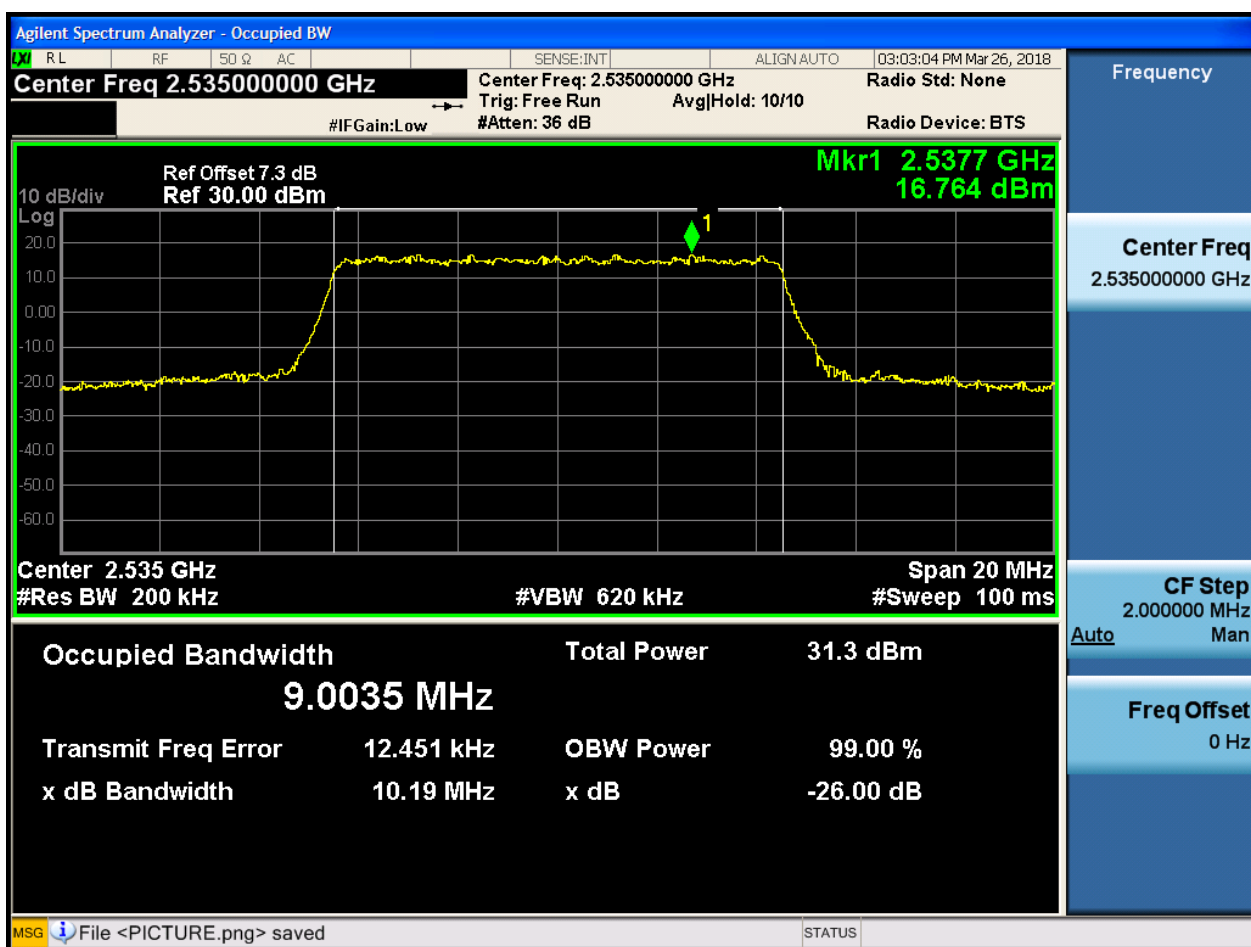
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



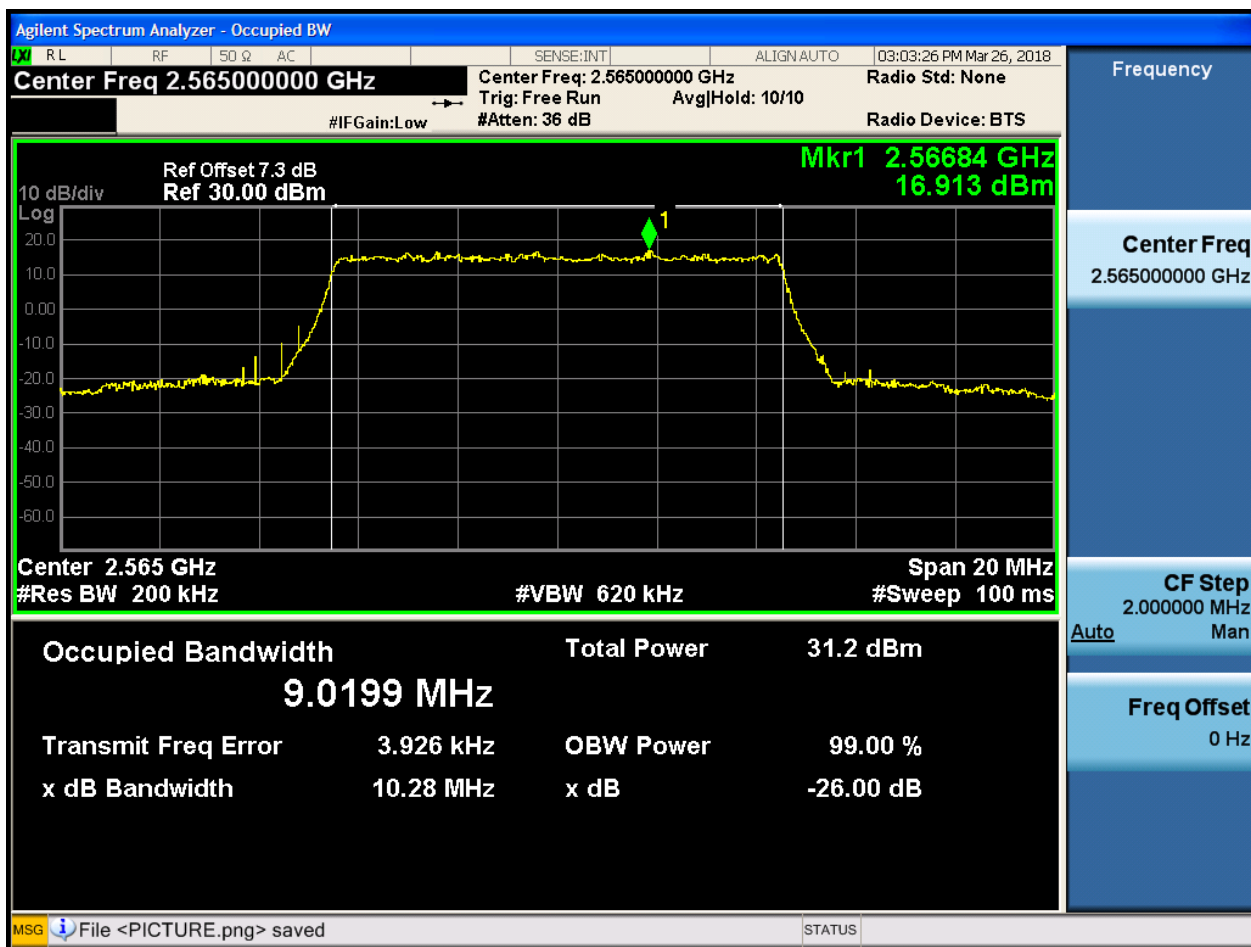
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

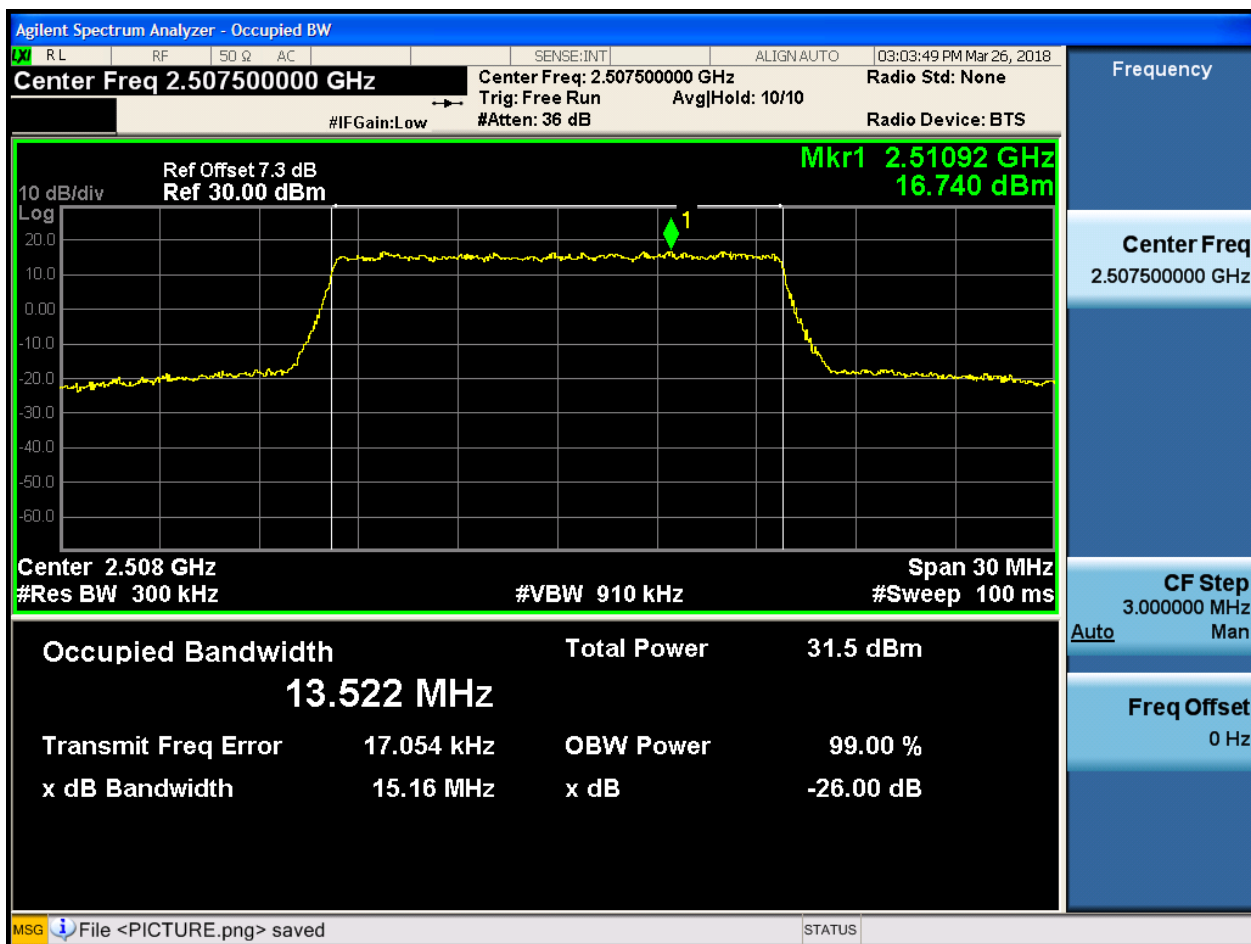
4.1.1.1.2.3.1 Test RB = RB50#0



4.1.1.1.3 Test Bandwidth = 15

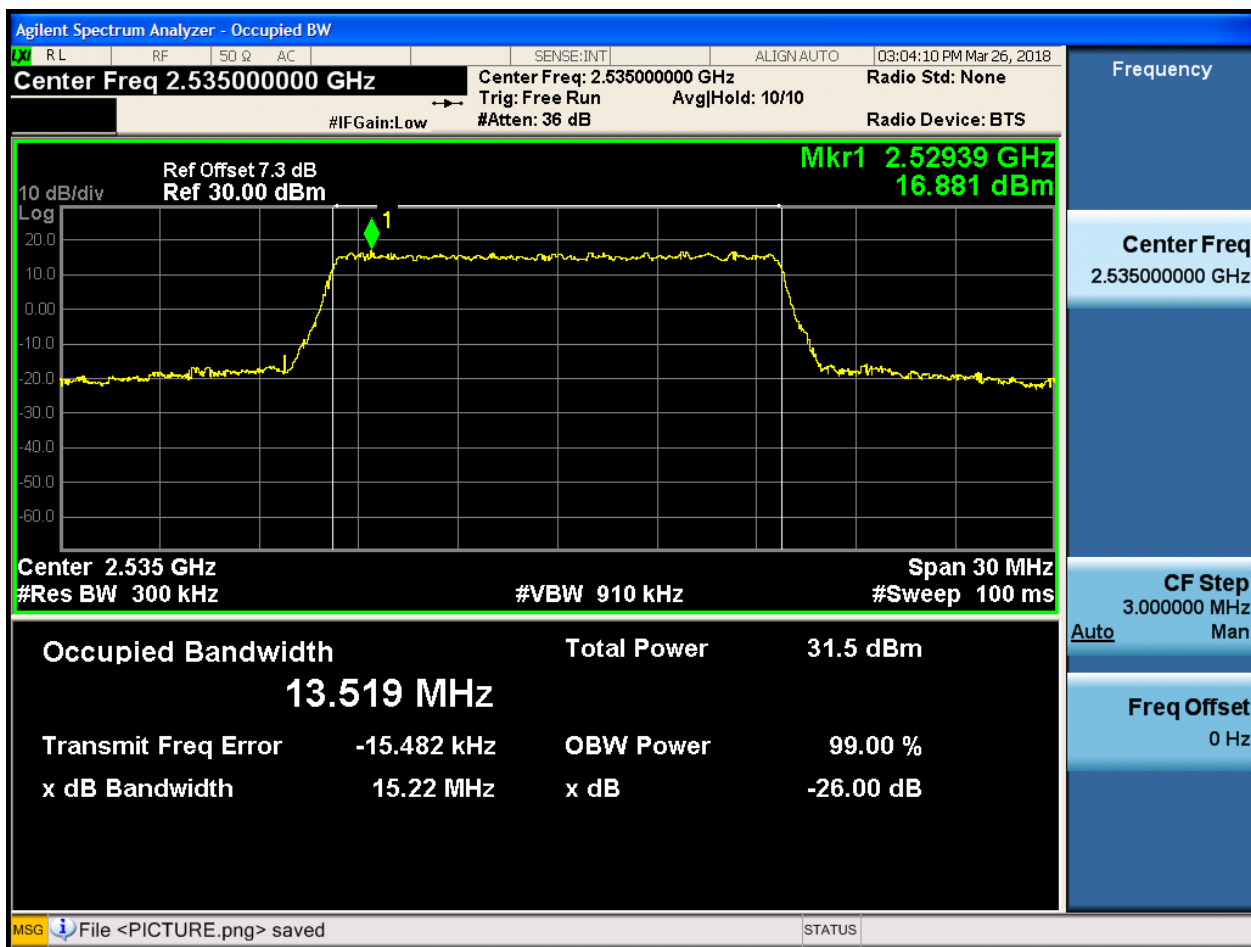
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1.3.2 Test Channel = MCH

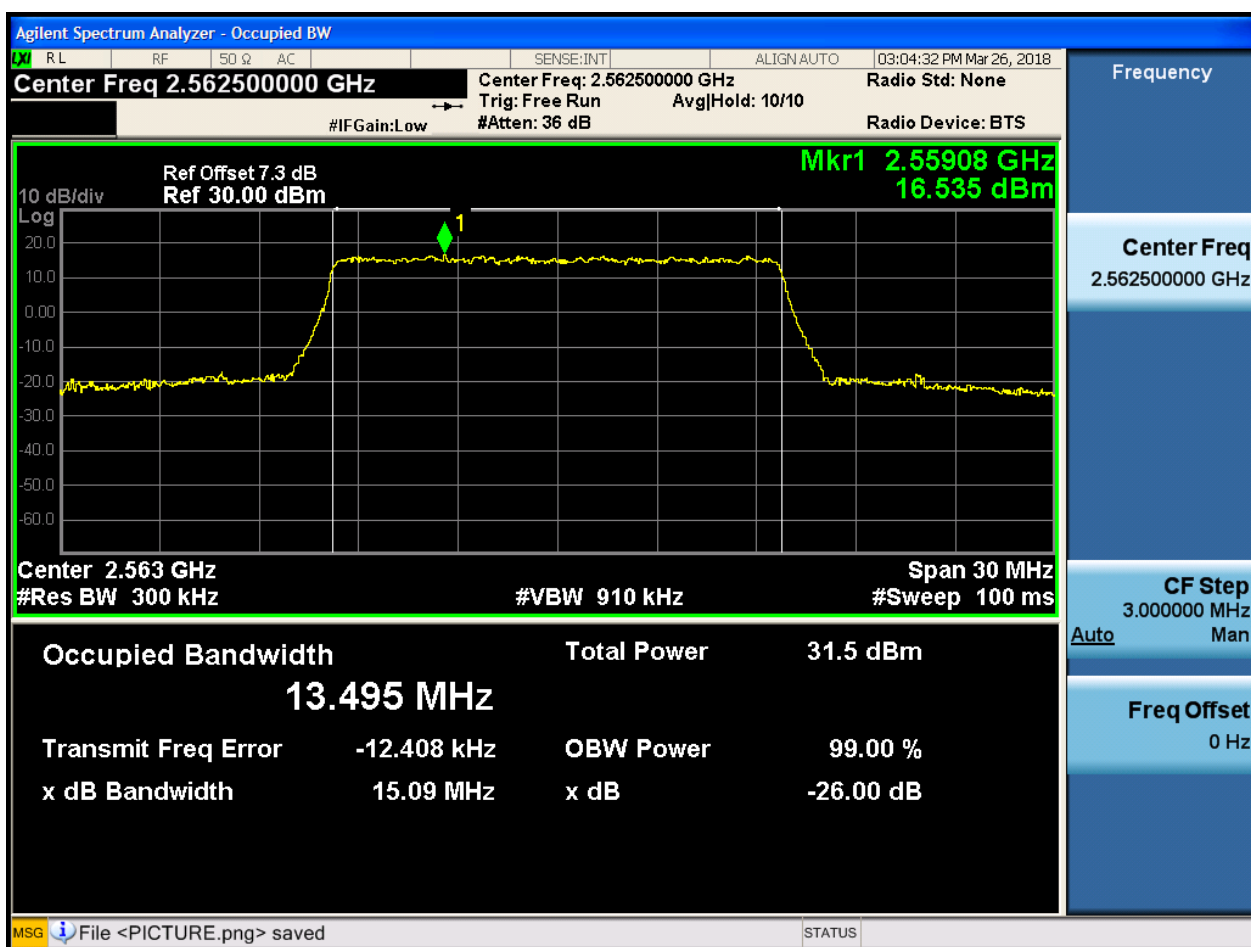
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

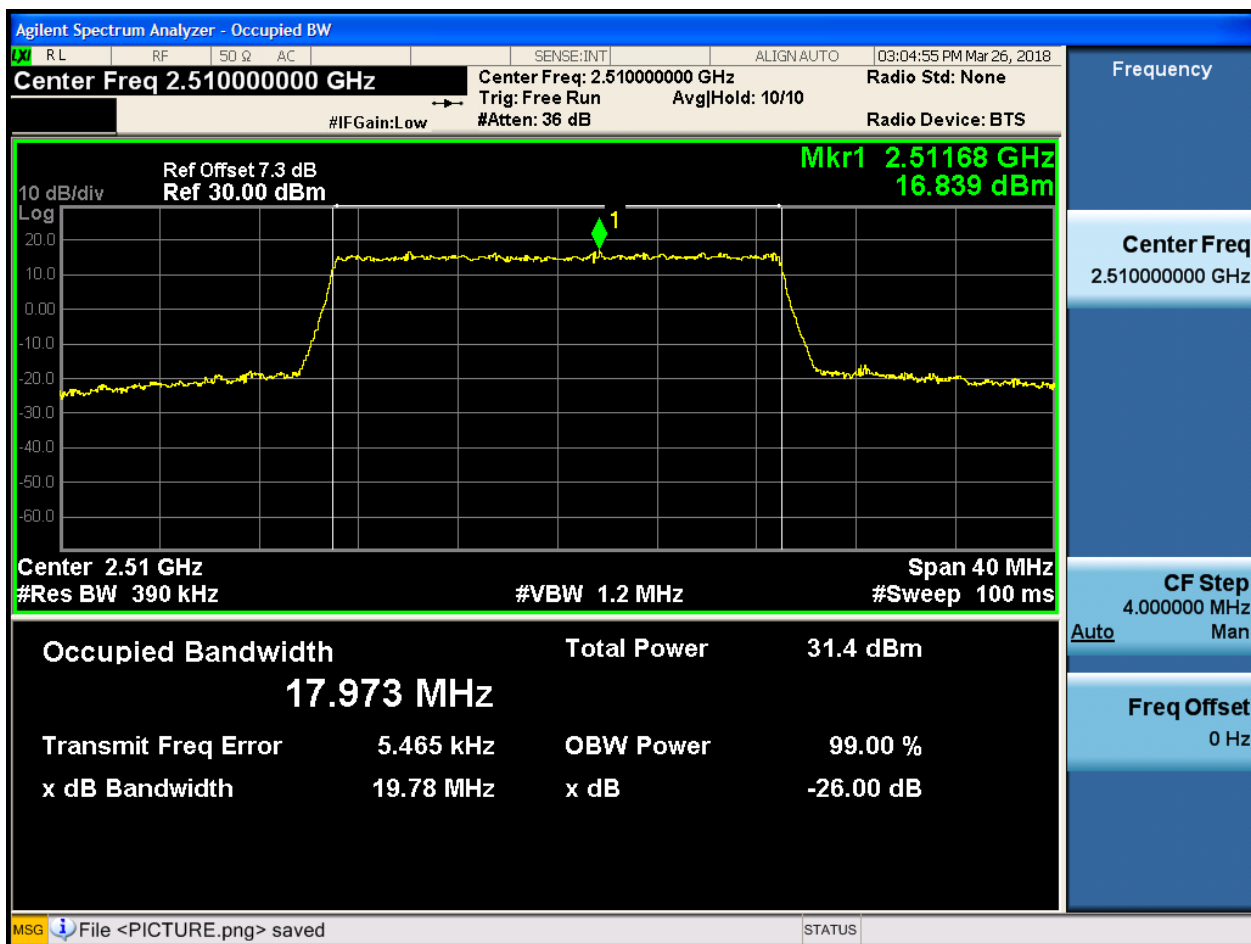
4.1.1.1.3.3.1 Test RB = RB75#0



4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

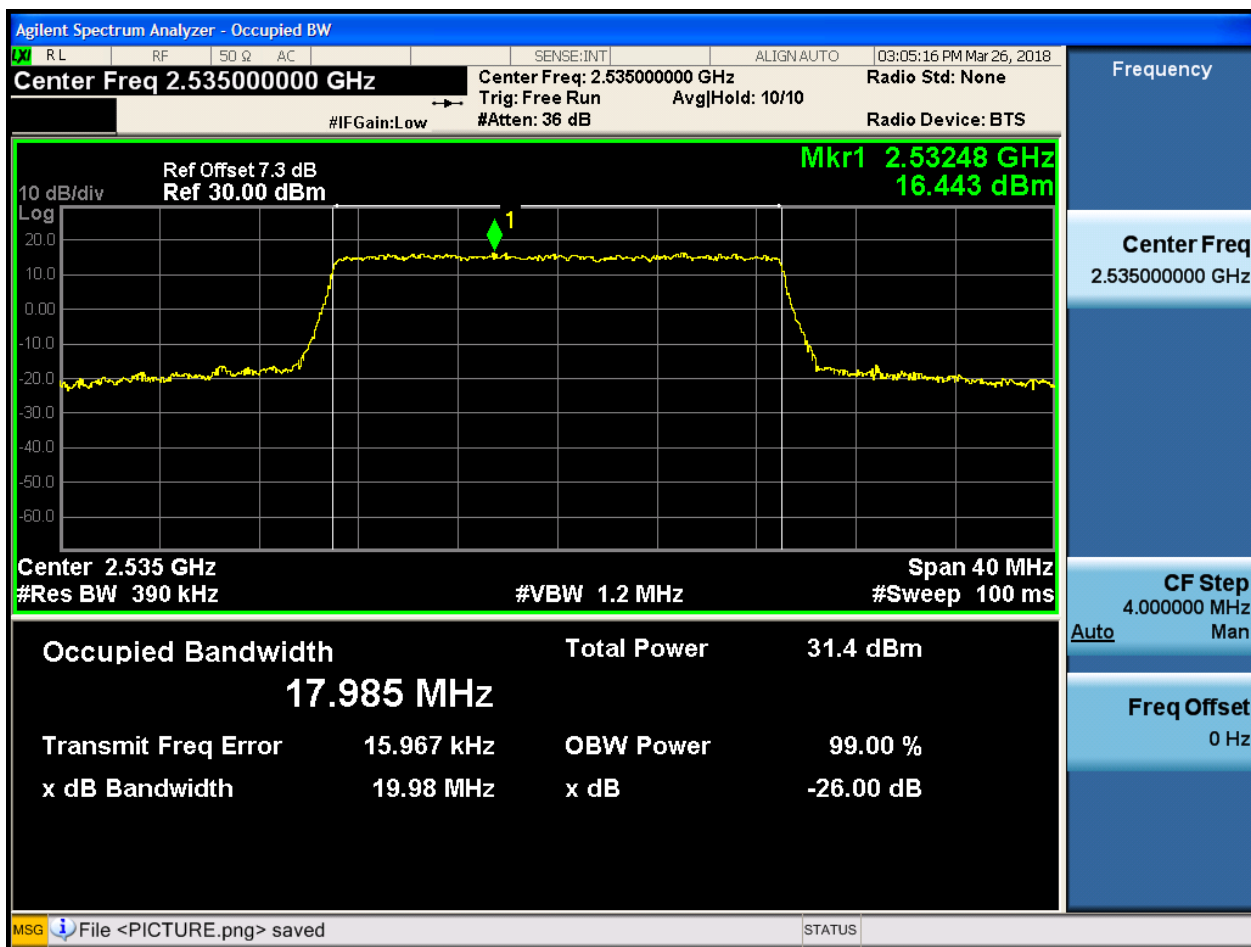
4.1.1.1.4.1.1 Test RB = RB100#0





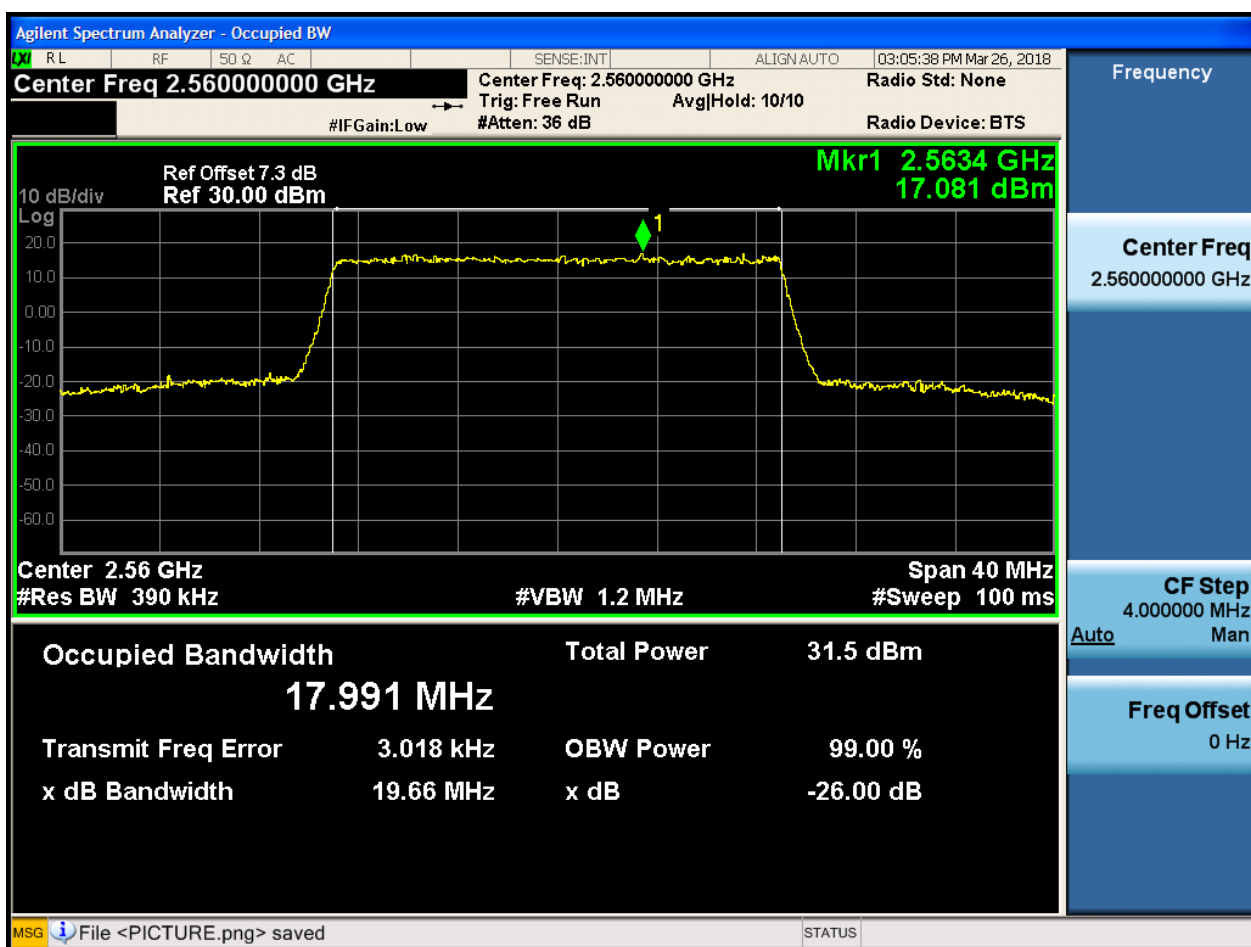
4.1.1.1.4.2 Test Channel = MCH

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

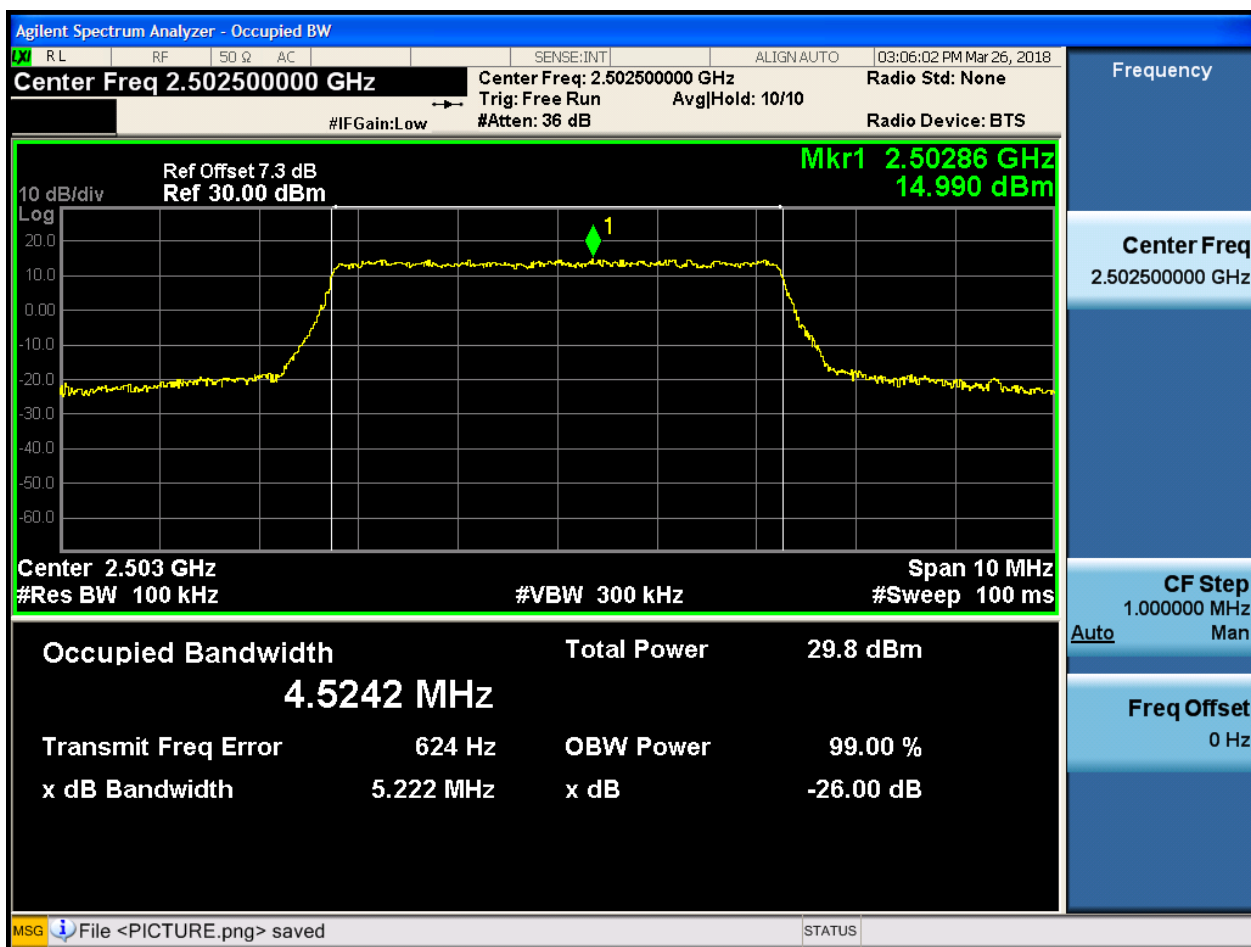


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

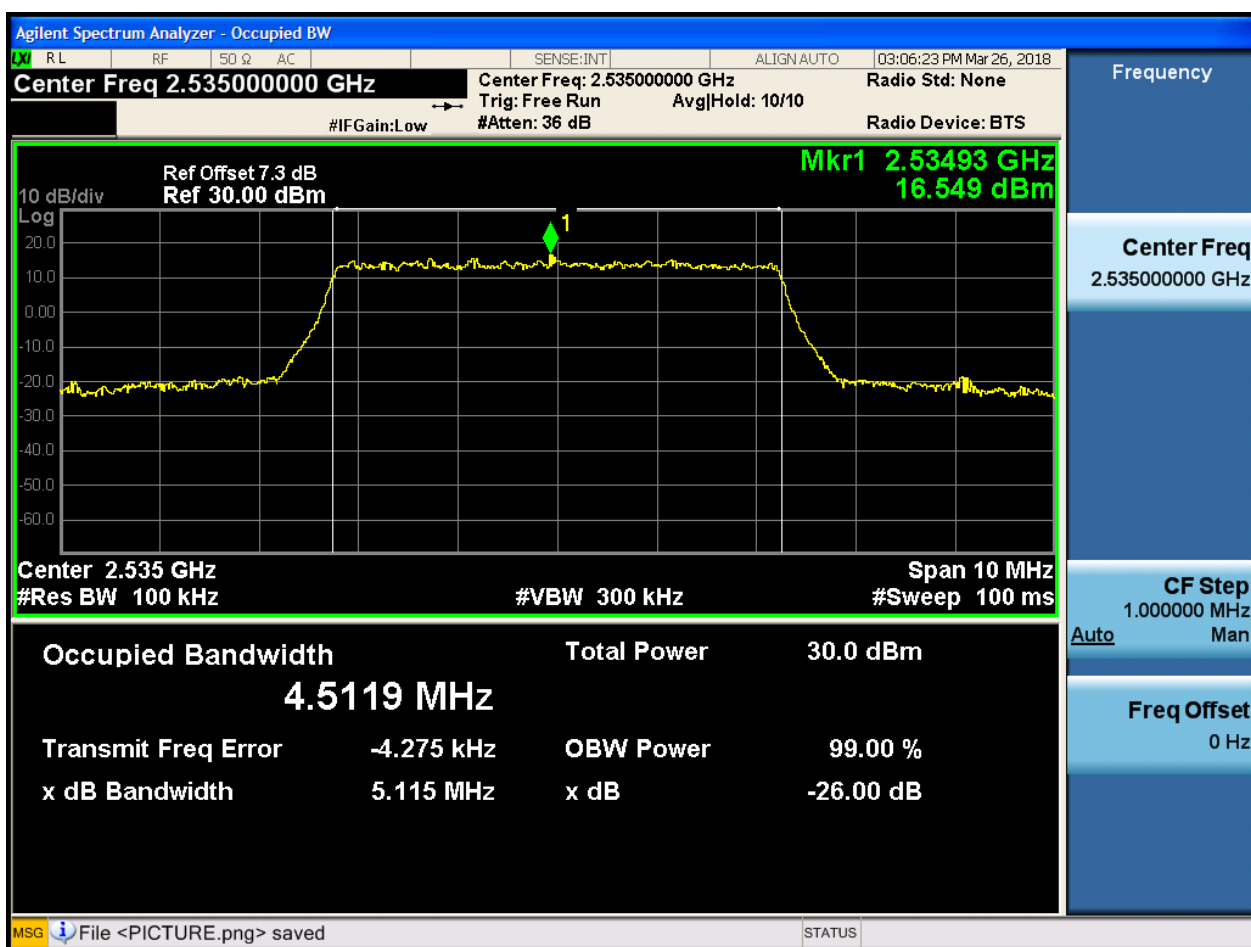
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



4.1.1.2.1.2 Test Channel = MCH

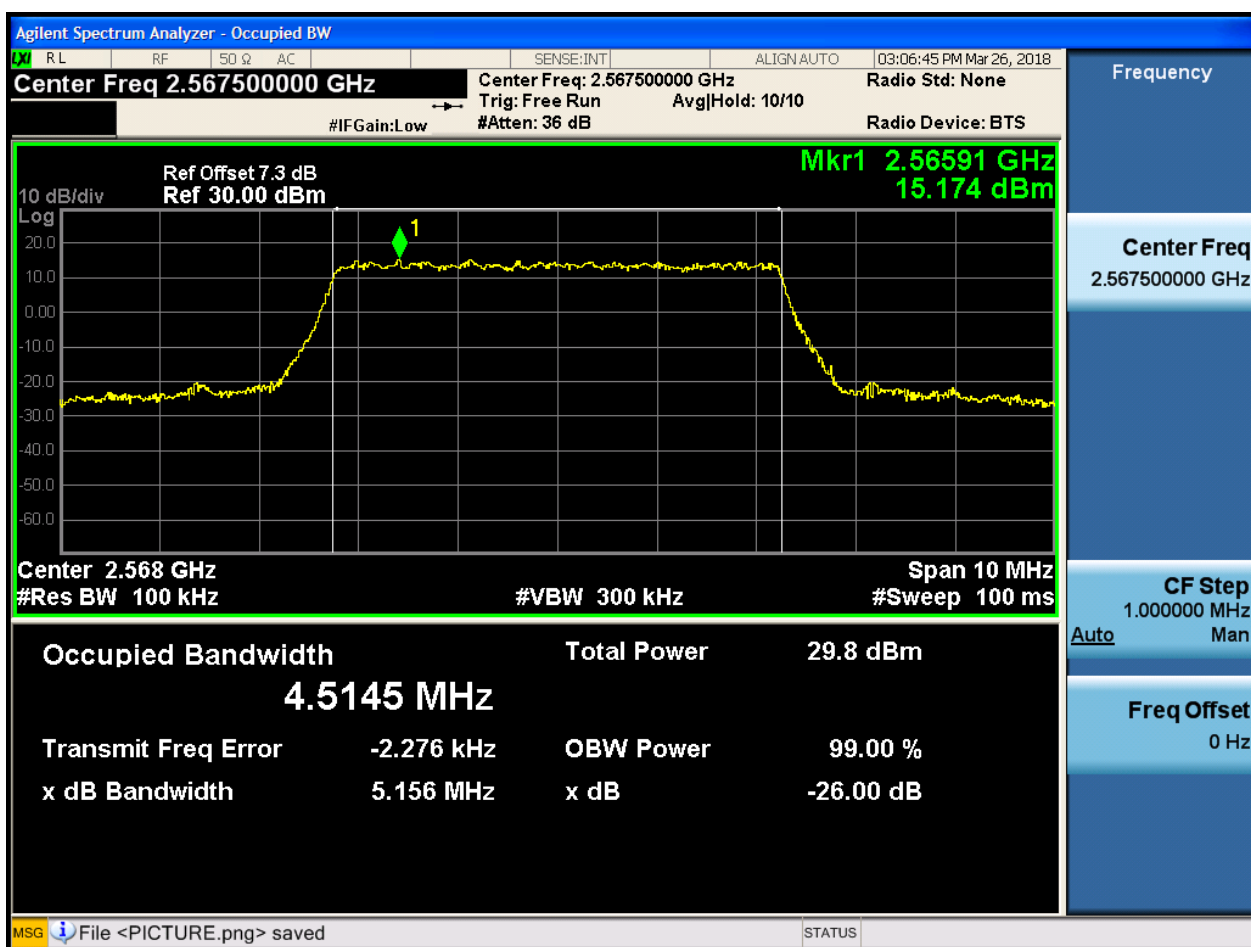
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

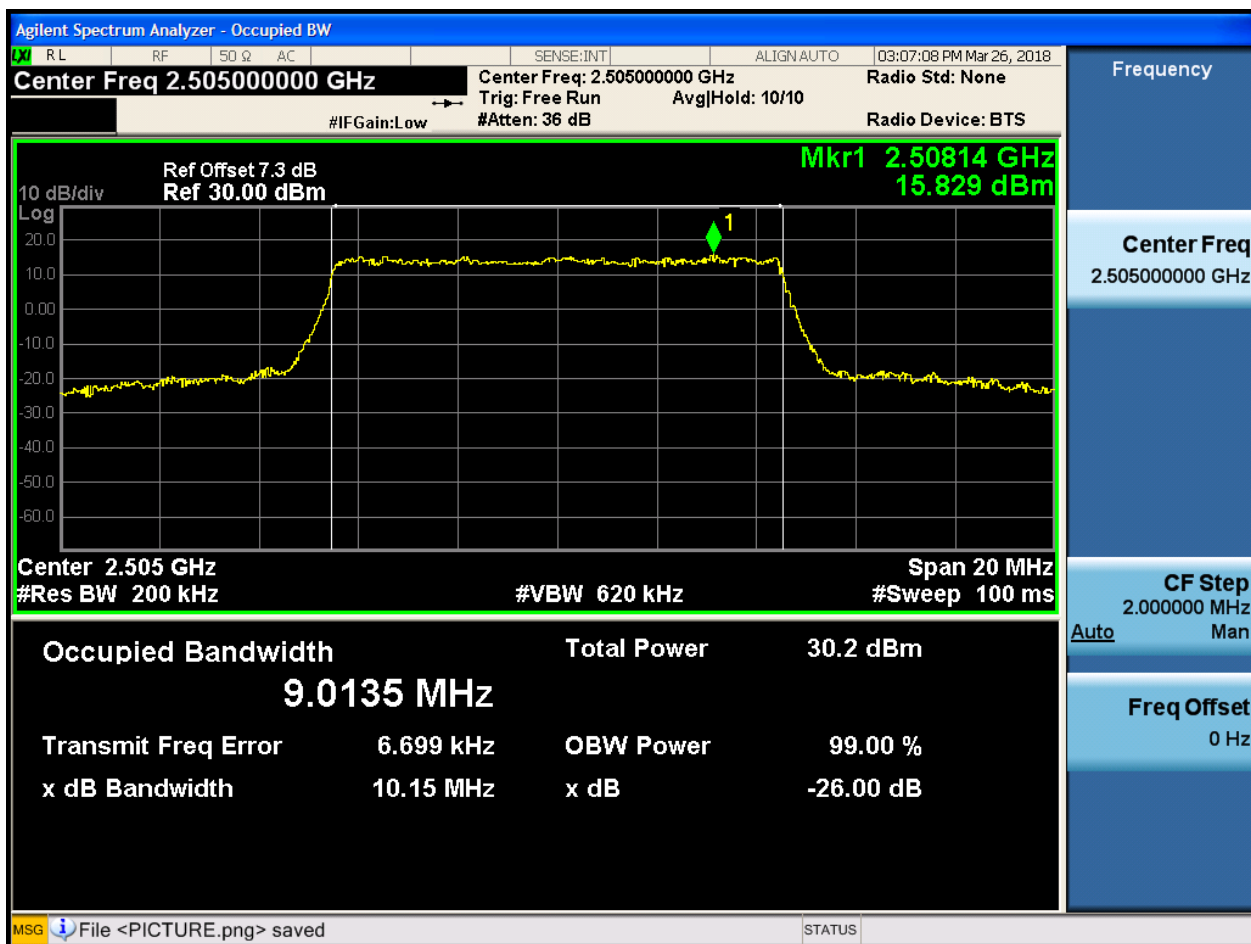
4.1.1.2.1.3.1 Test RB = RB25#0



4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

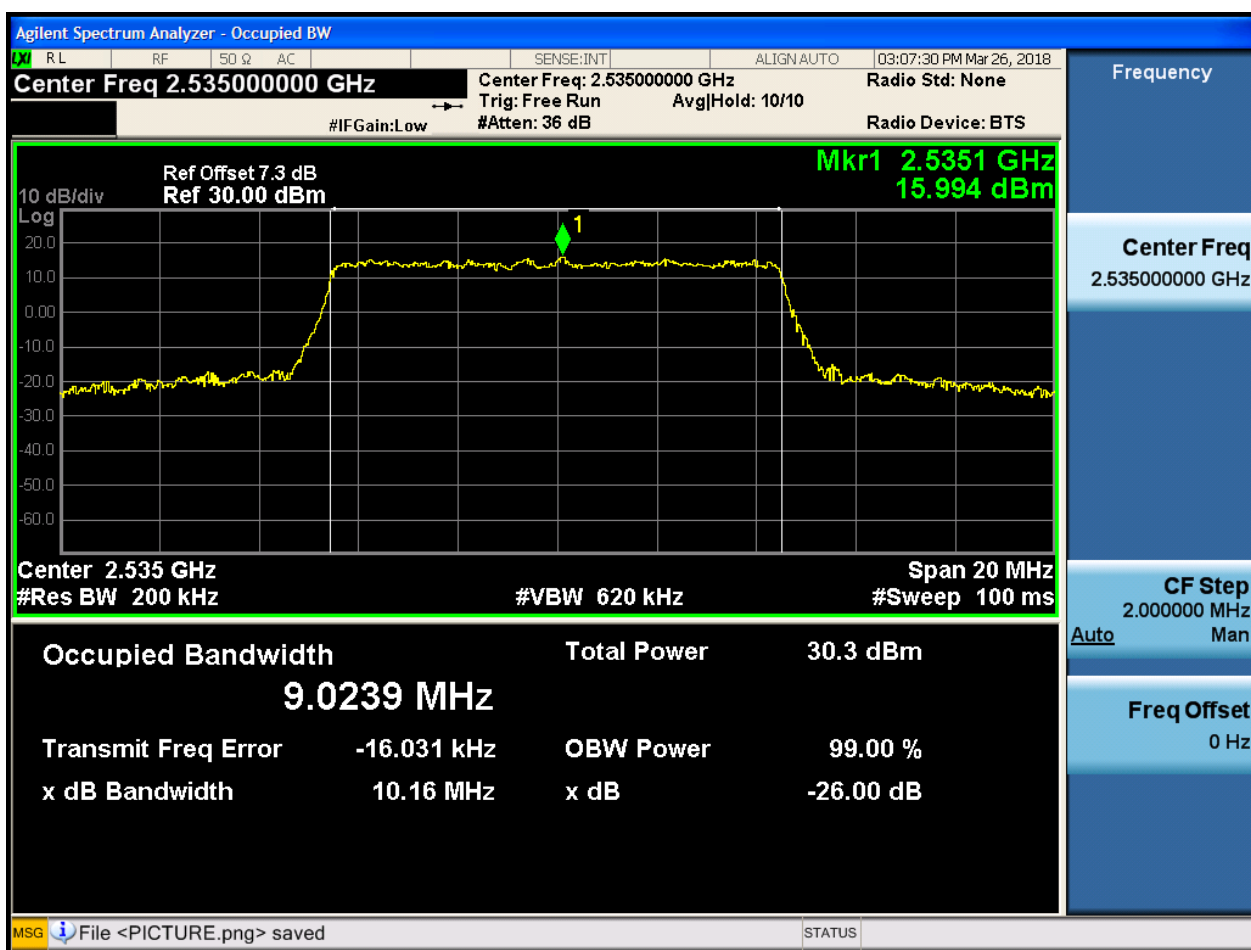
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

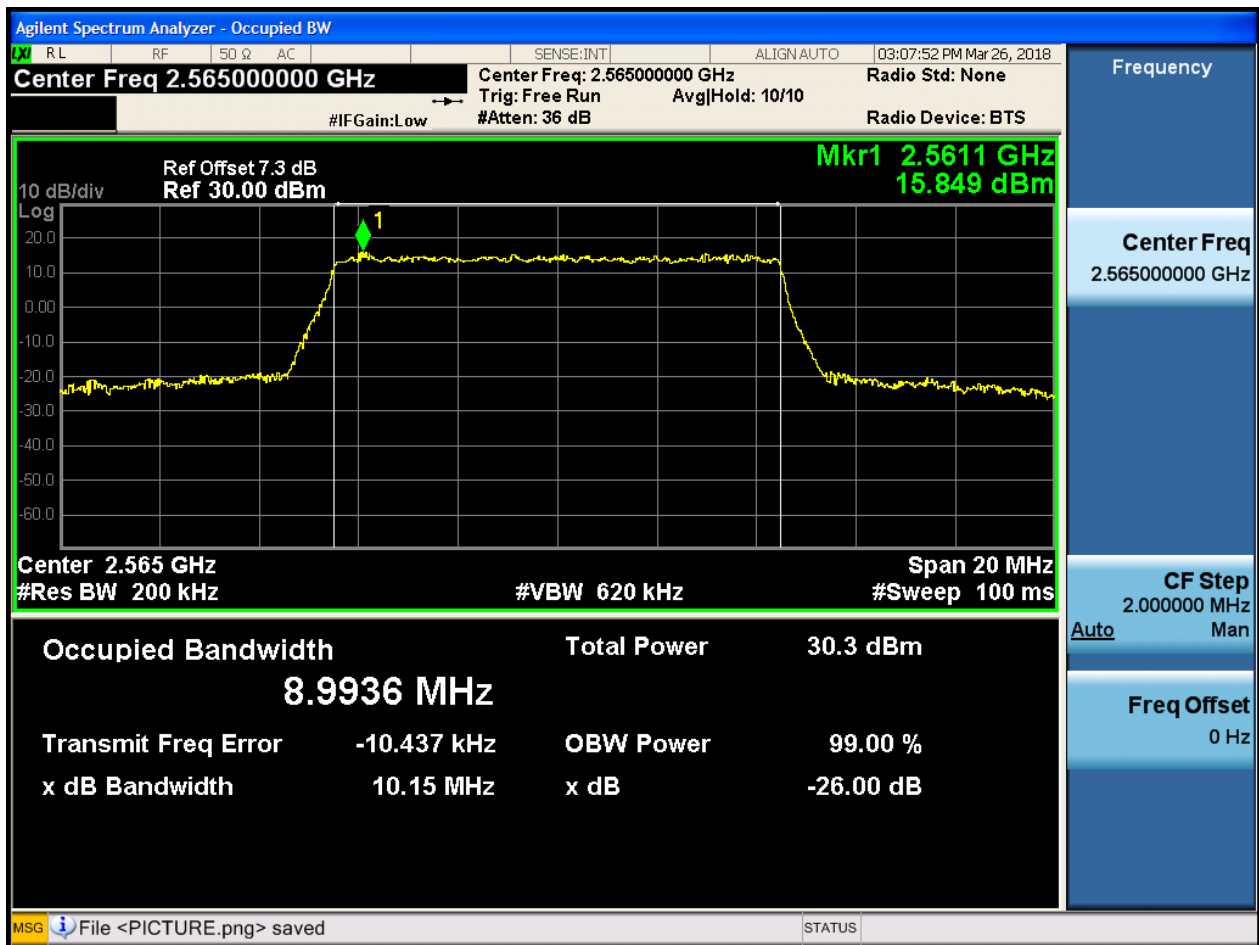
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

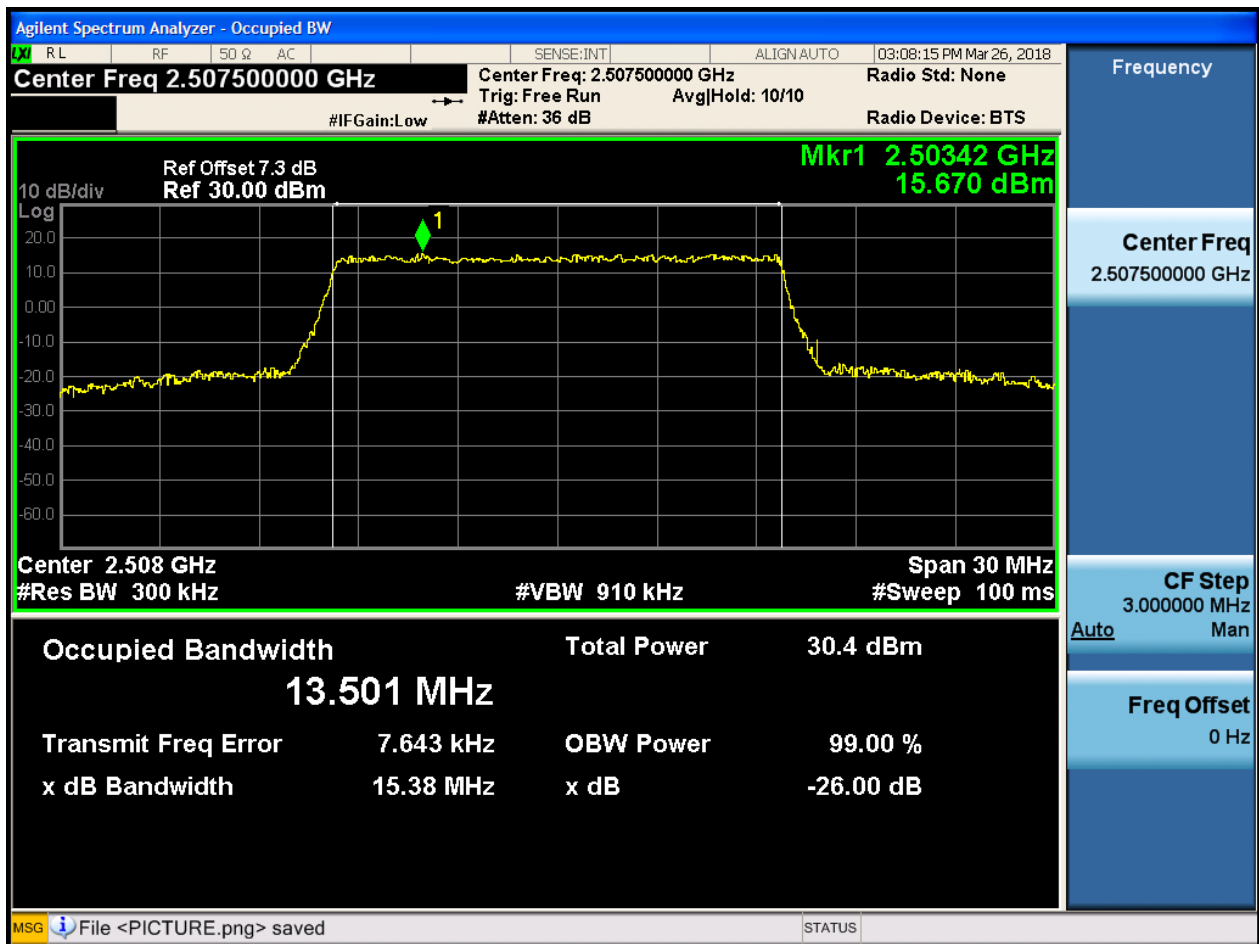




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

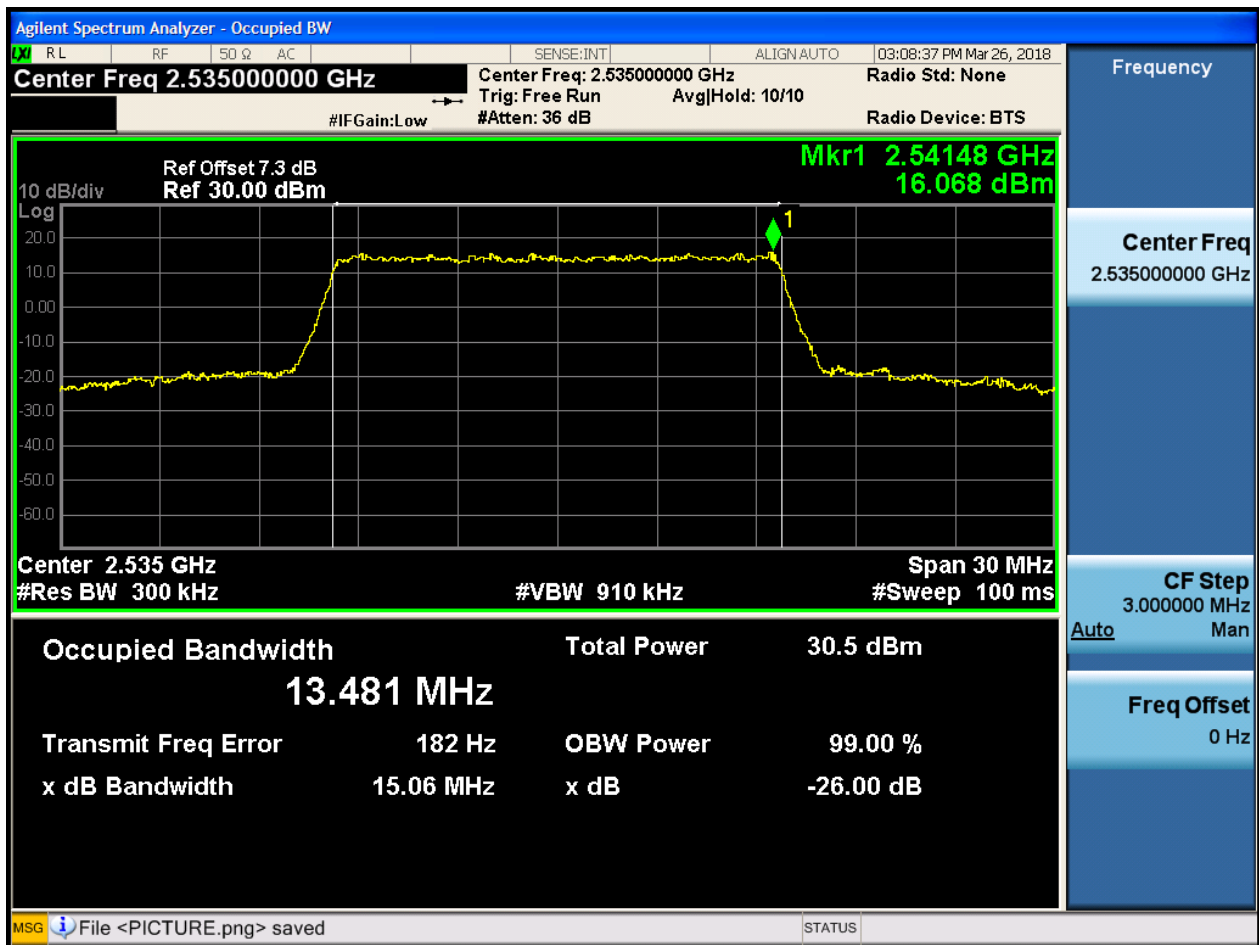
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

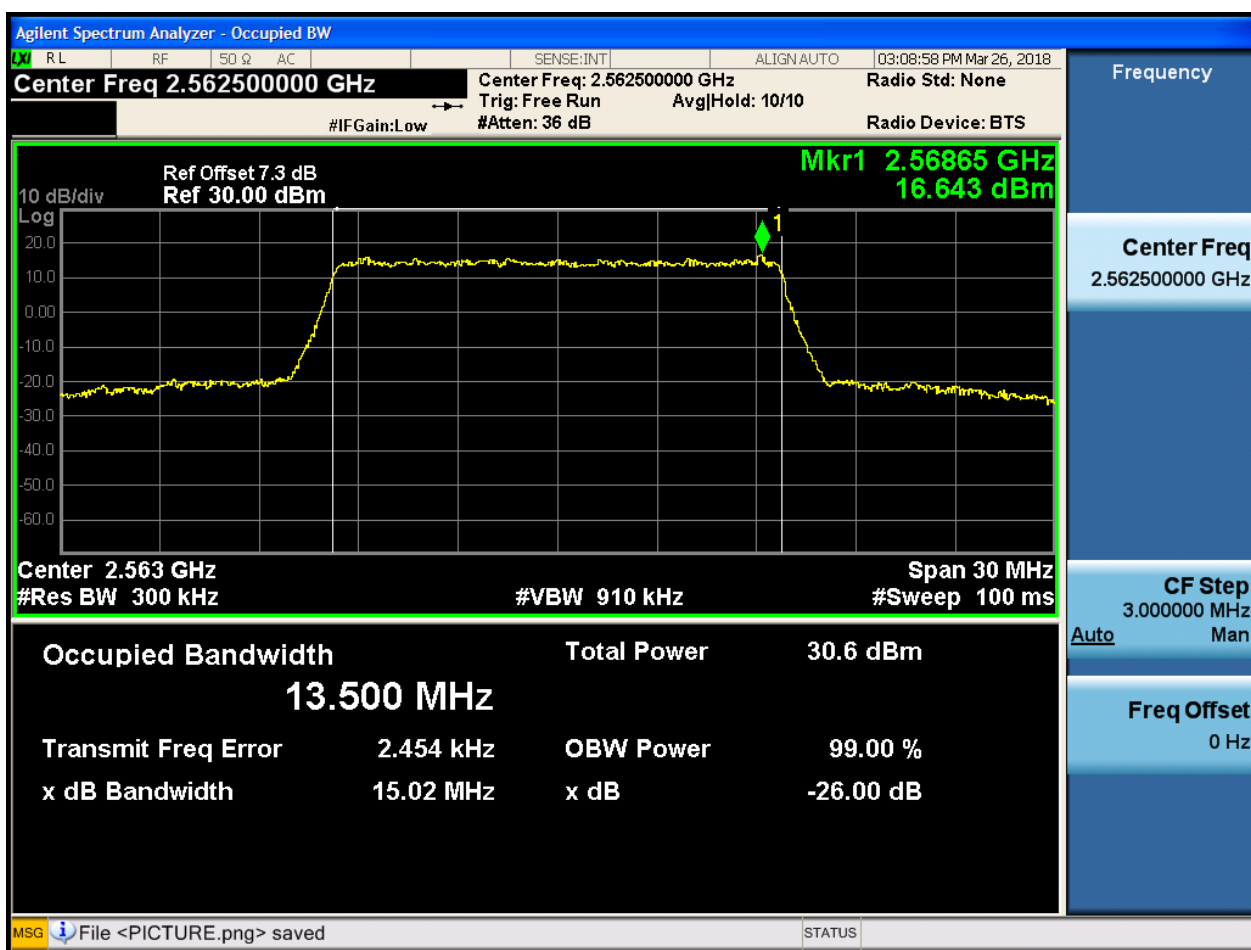
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

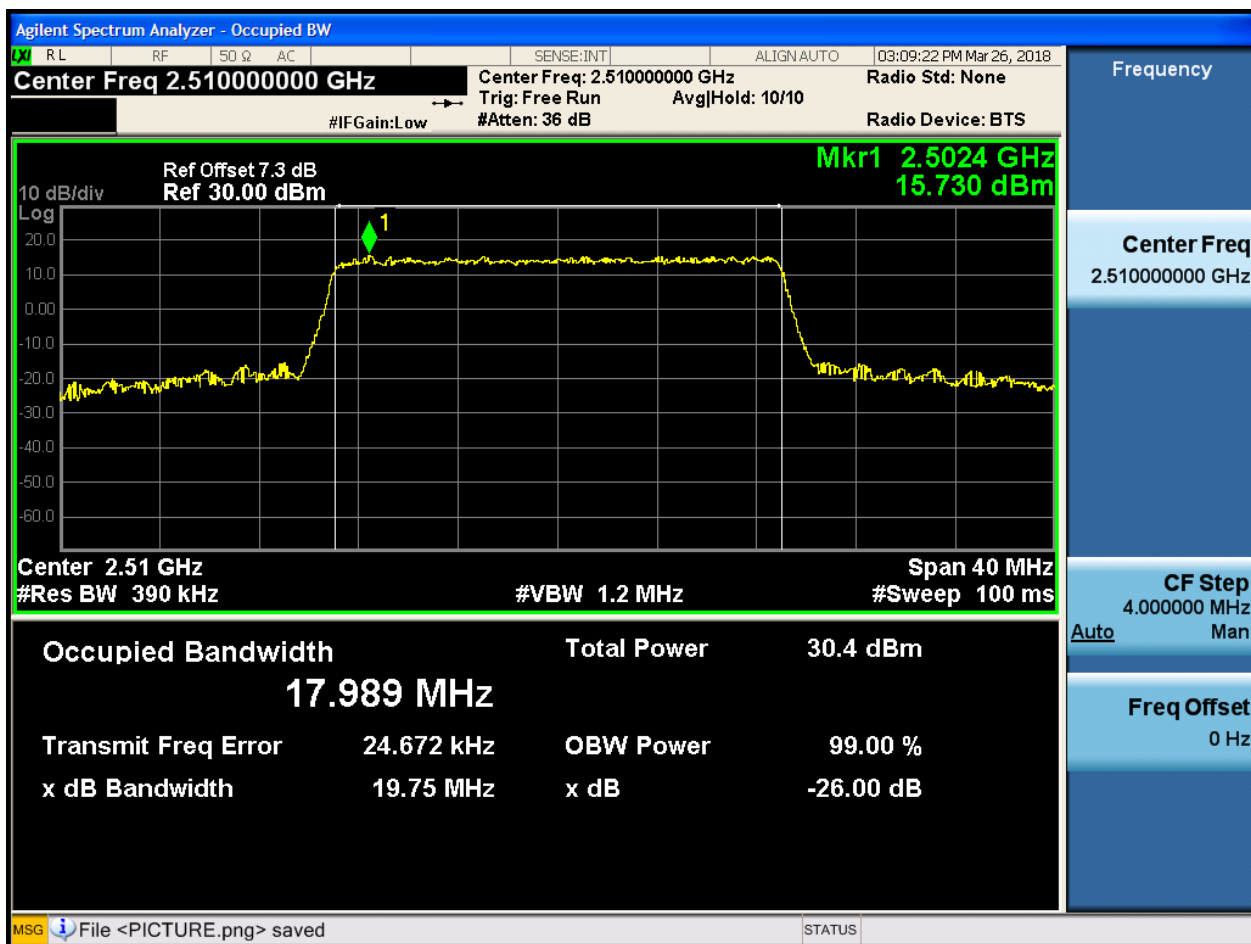




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

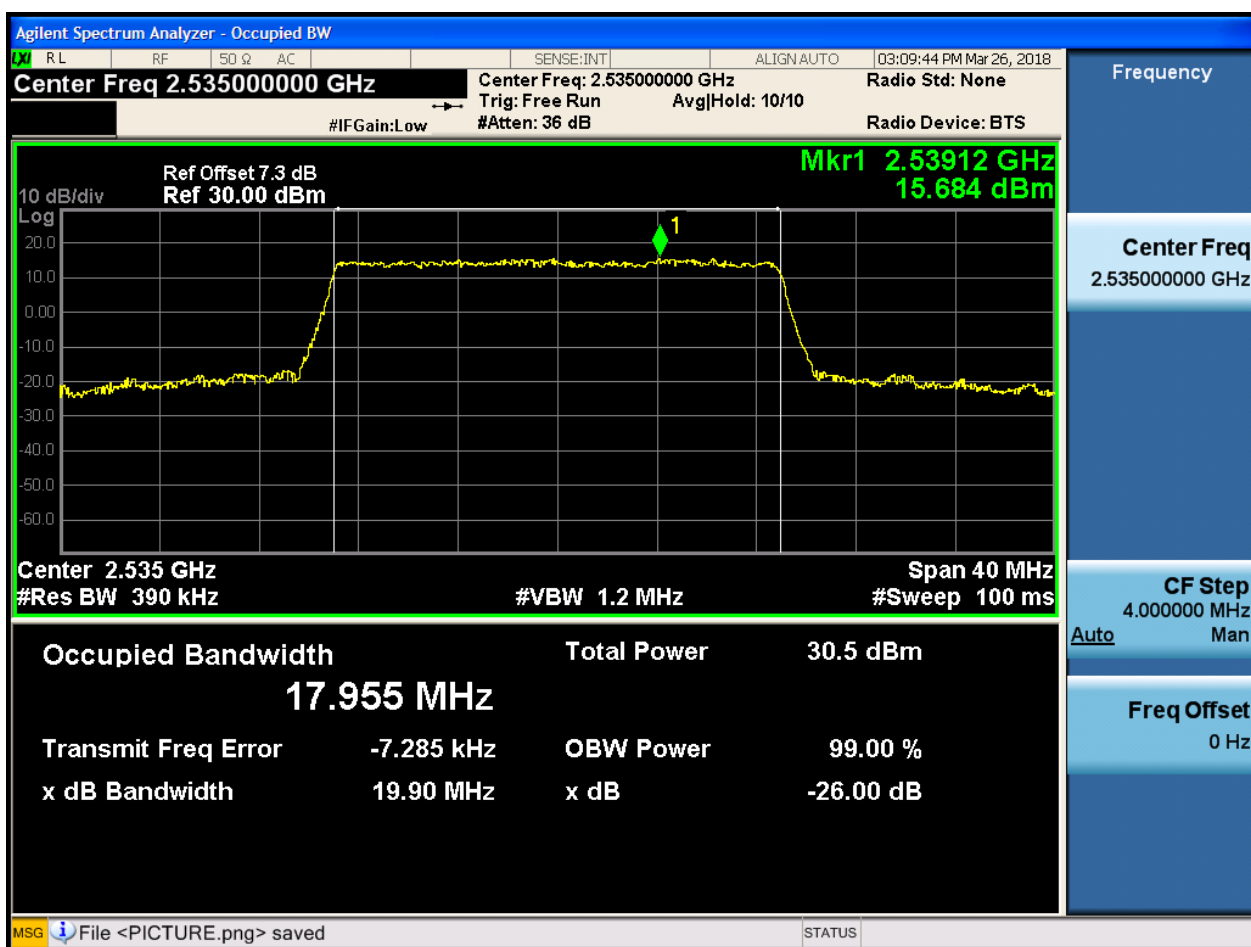
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

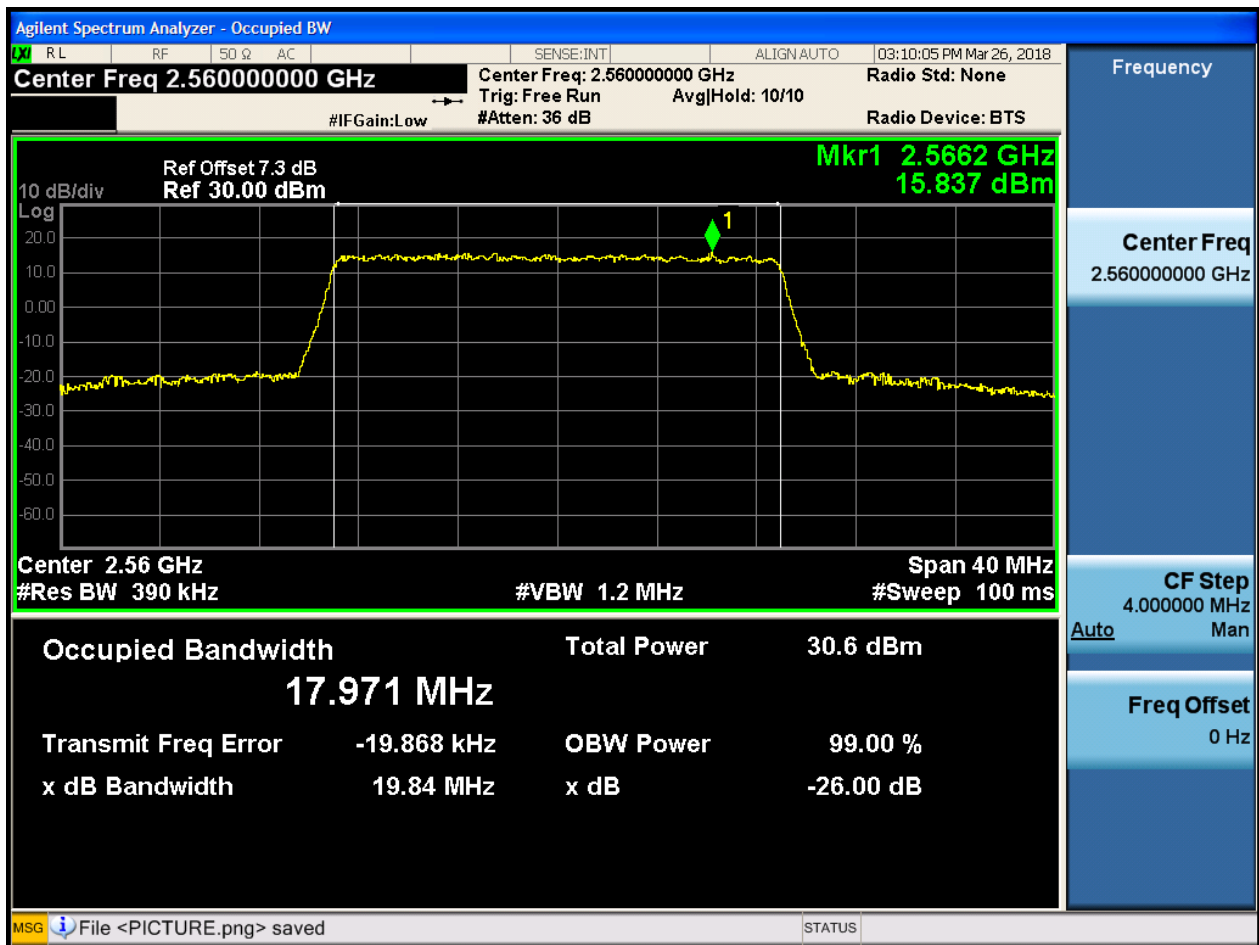
4.1.1.2.4.2.1 Test RB = RB100#0





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

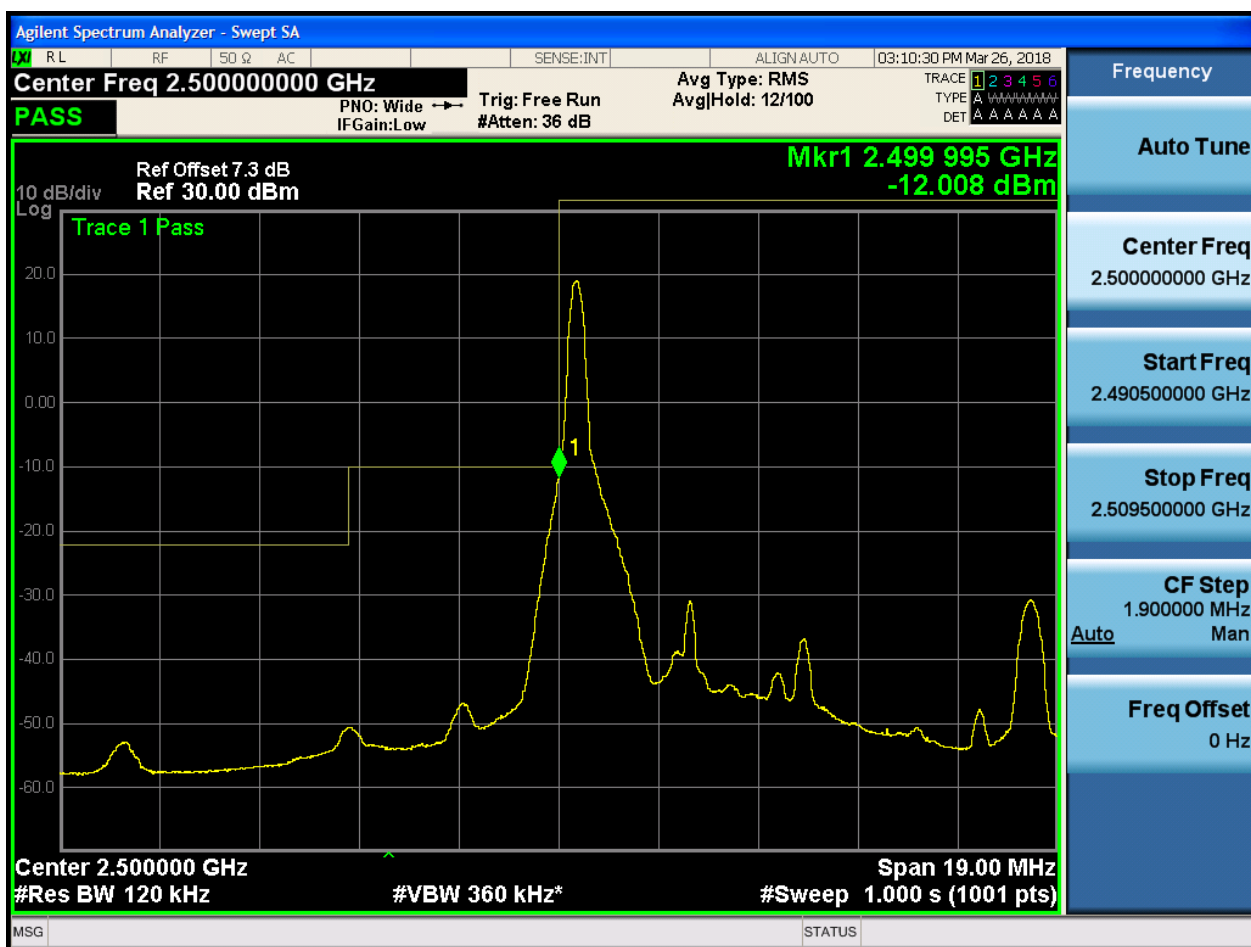
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

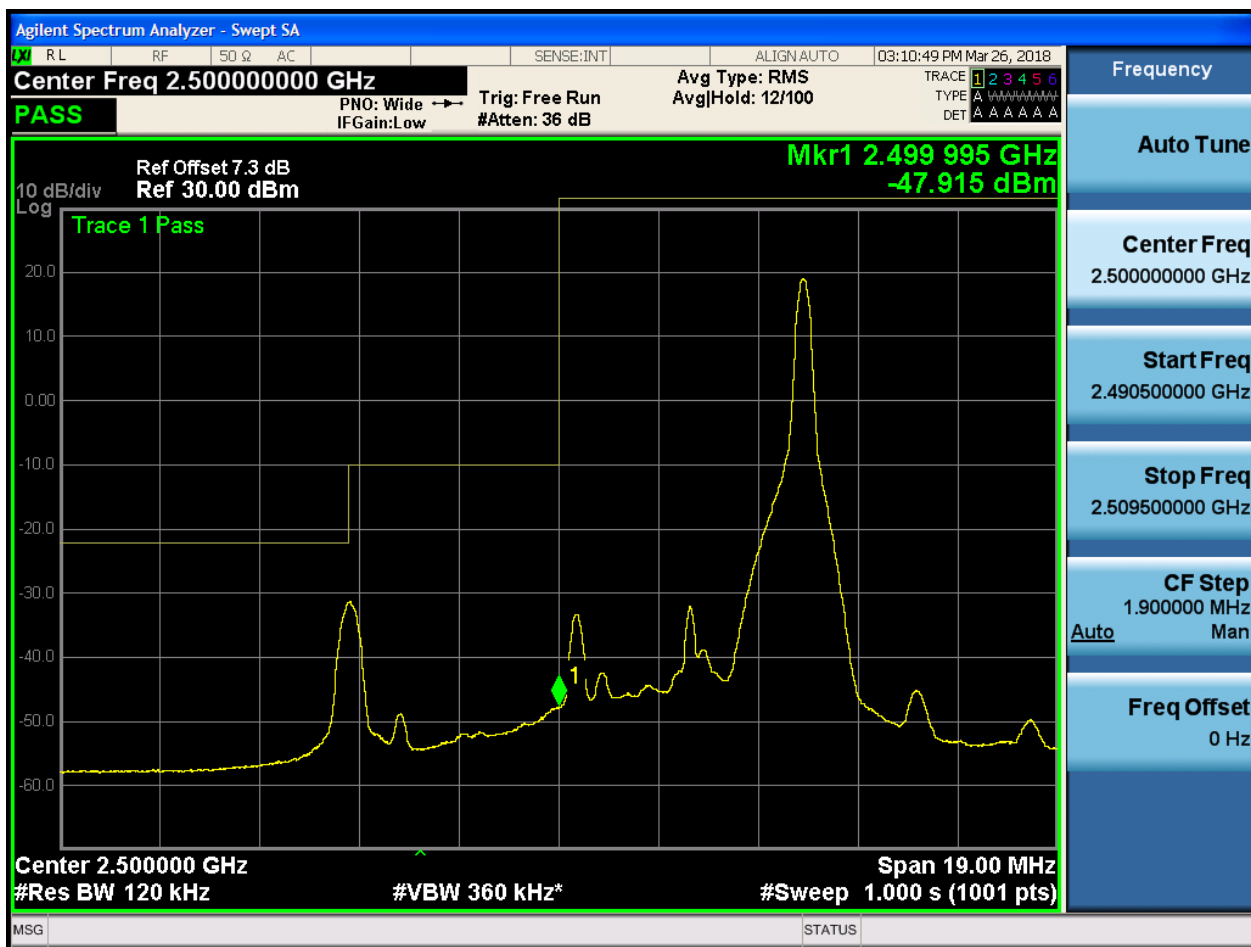
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



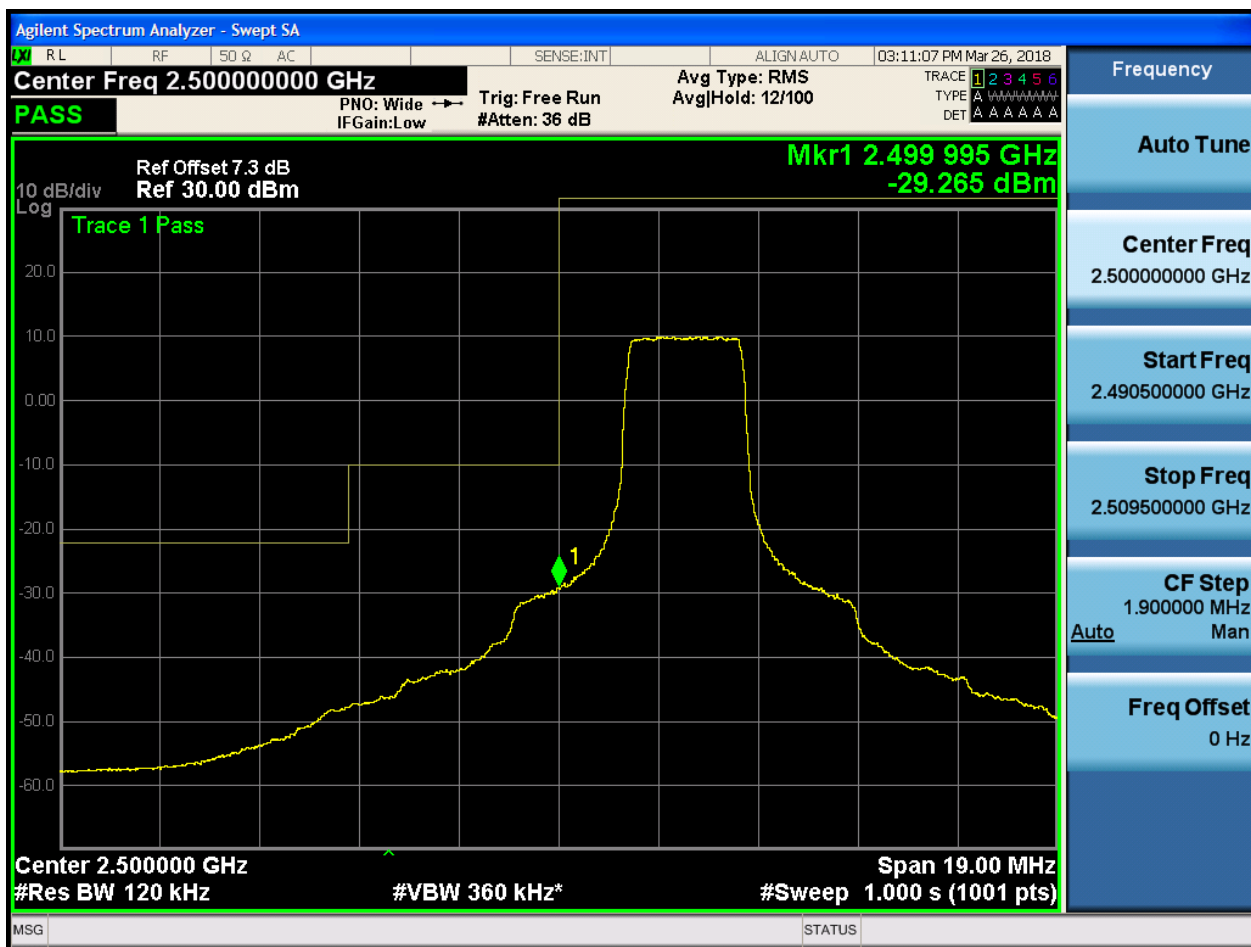


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6



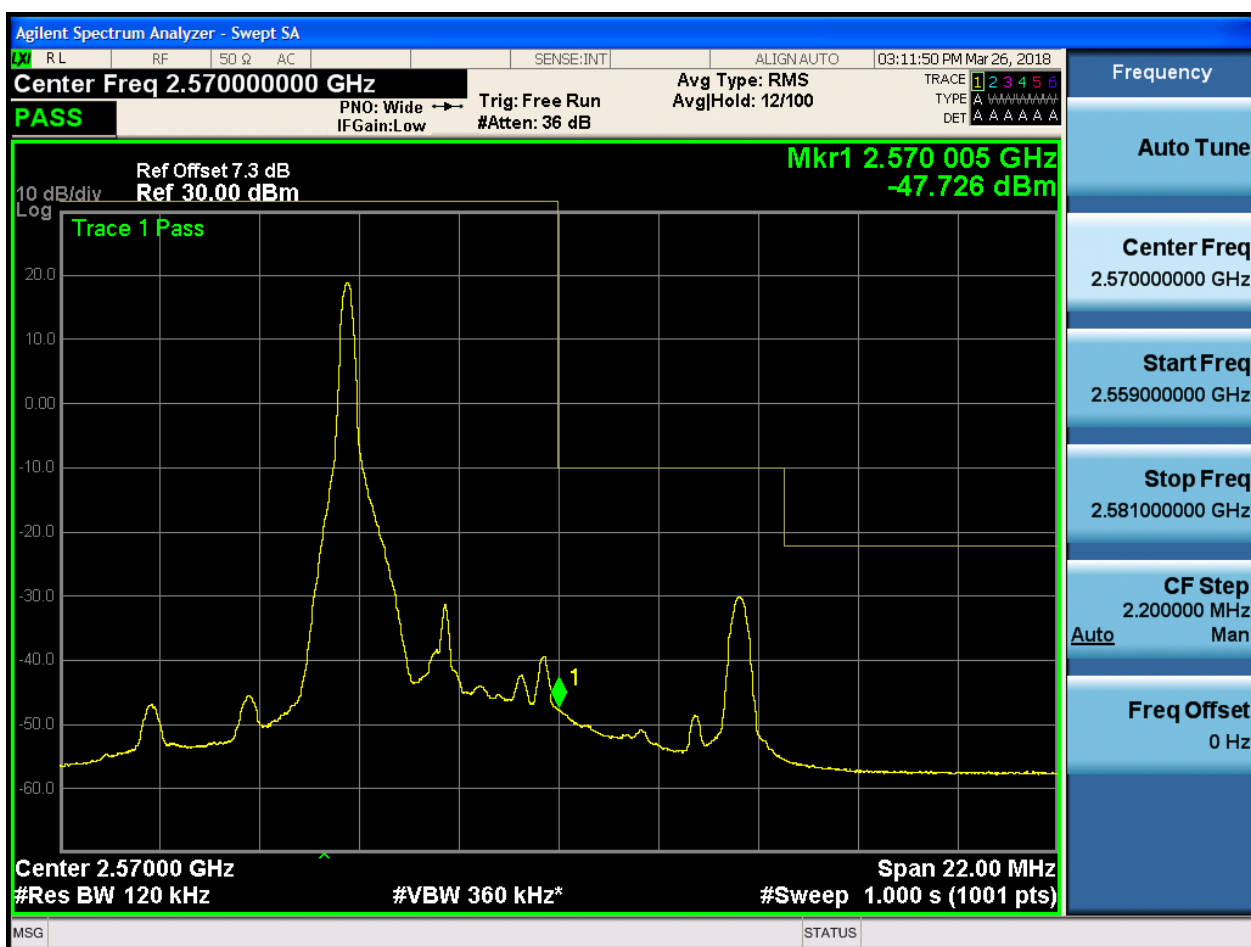


5.1.1.1.1.4 Test RB = RB25#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

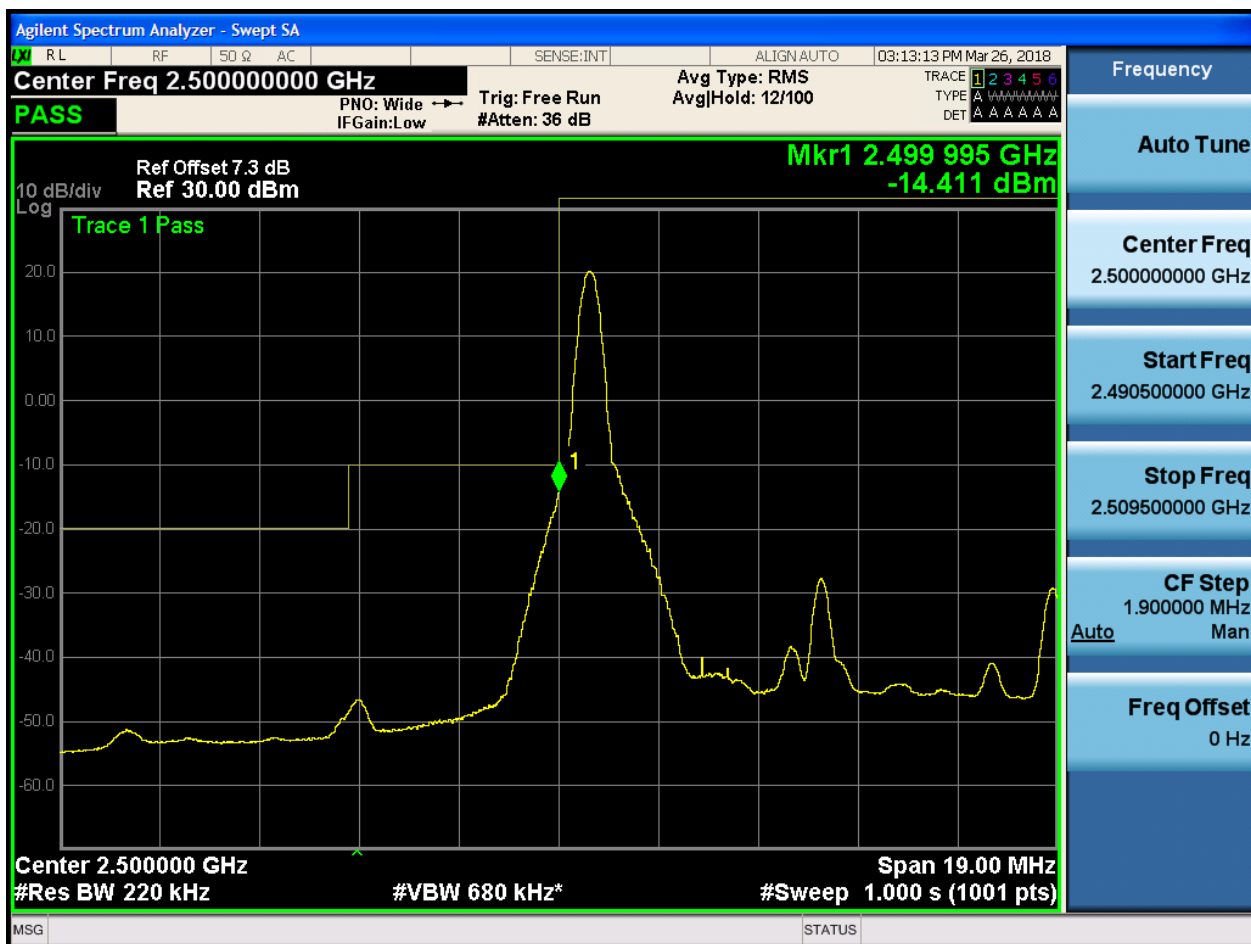




5.1.1.1.2 Test Bandwidth = 10

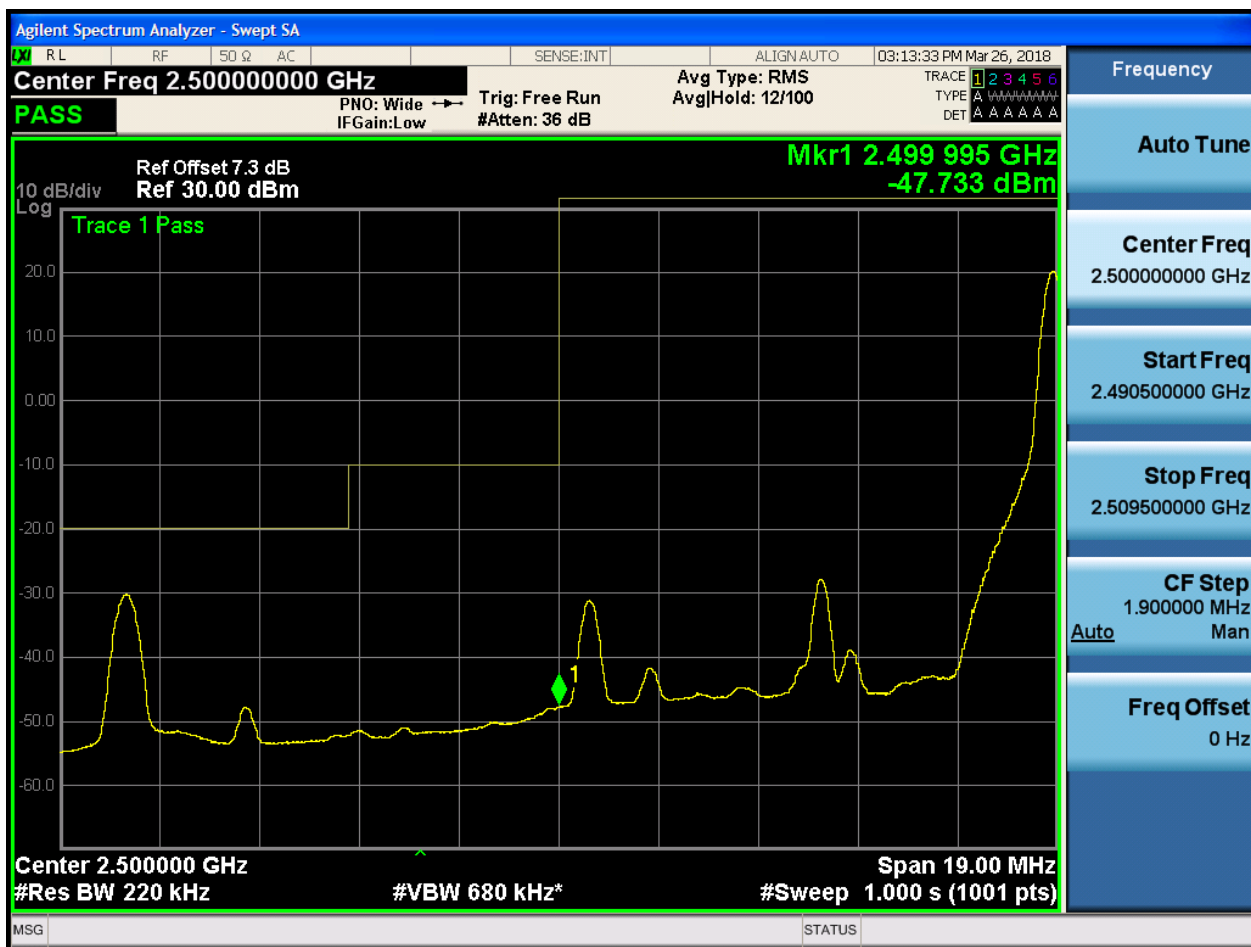
5.1.1.1.2.1 Test Channel = LCH

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



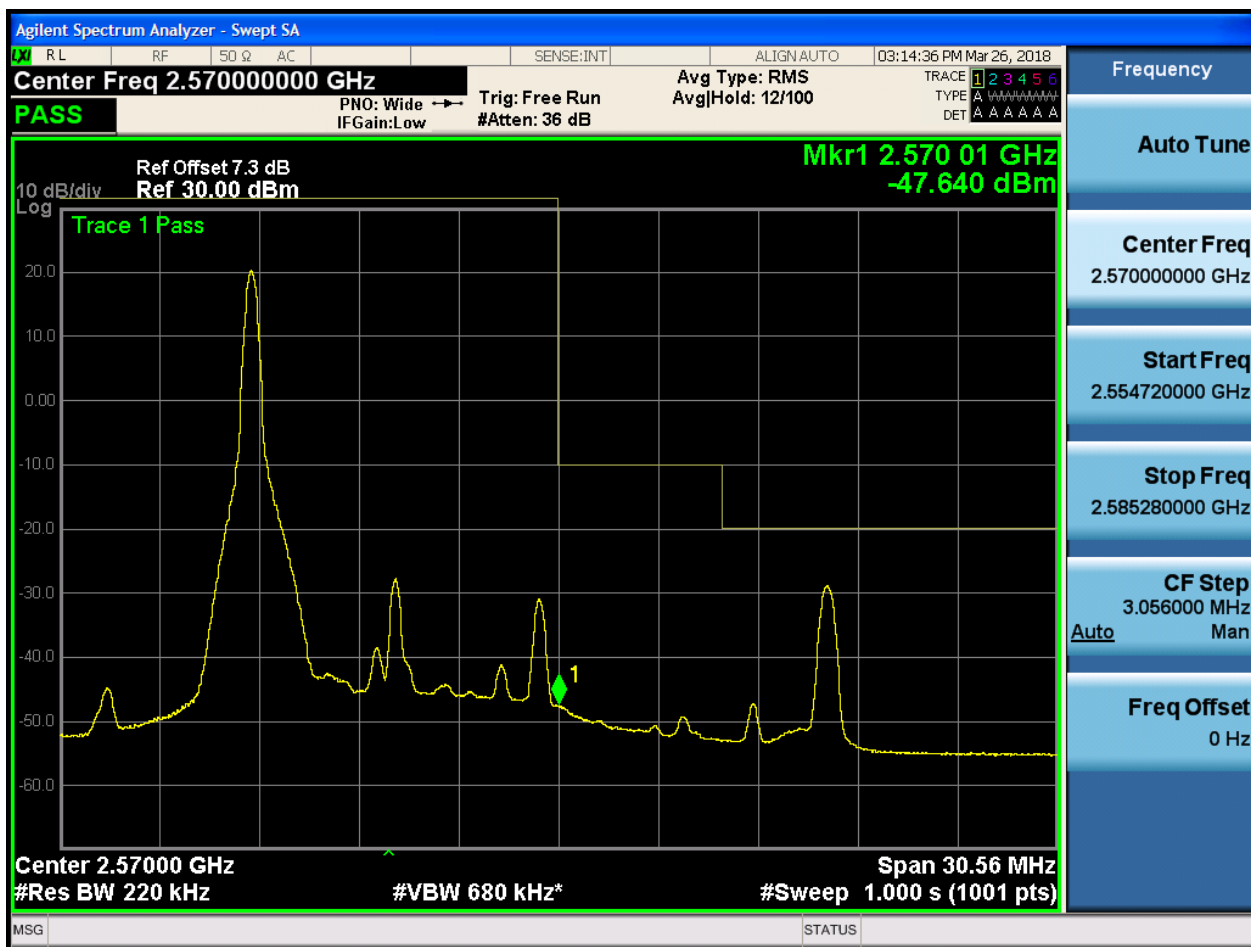


5.1.1.1.2.1.4 Test RB = RB50#0



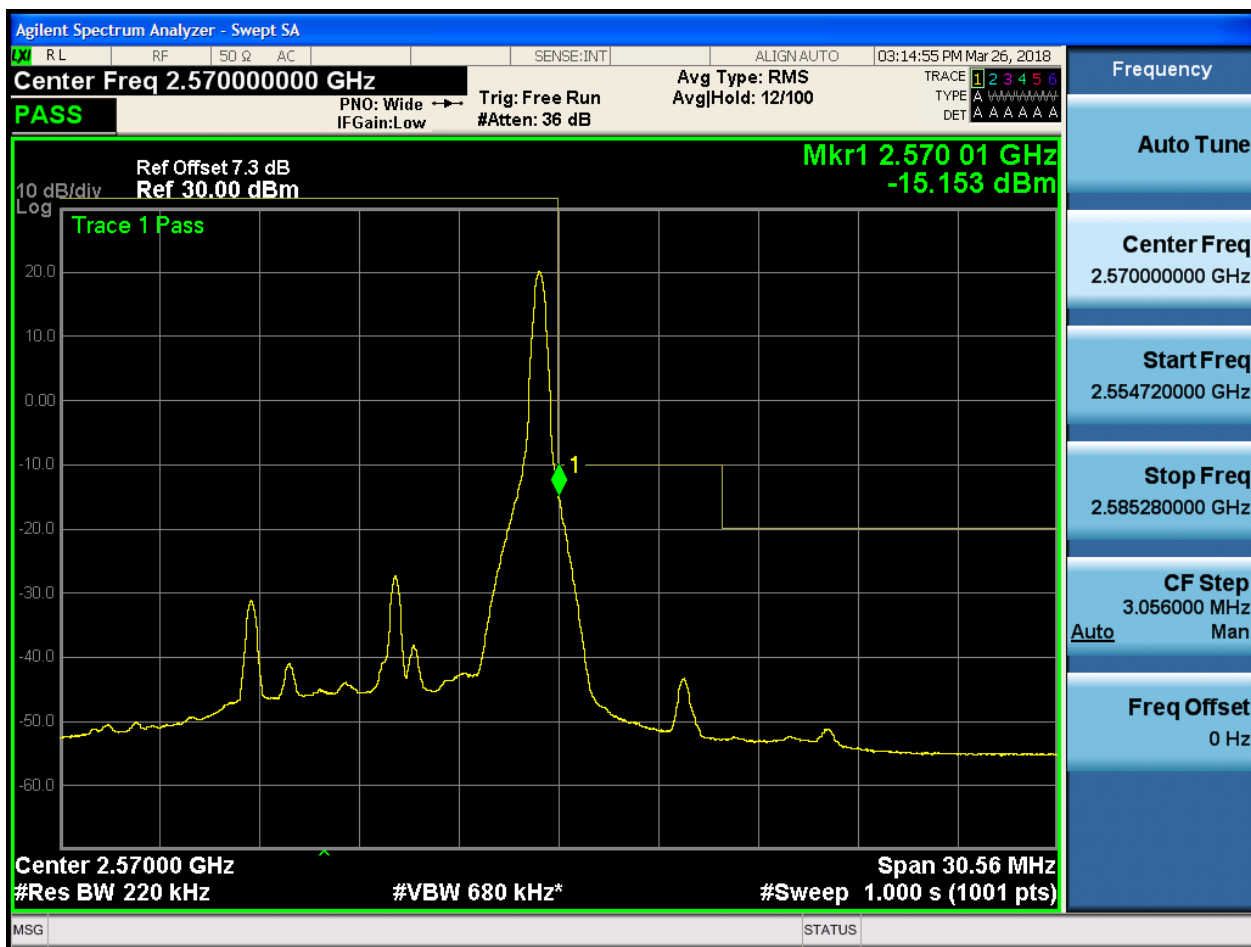
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





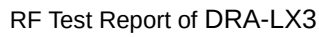
5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:15:34 PM Mar 26, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 220 kHz #VBW 680 kHz* #Sweep 1.000 s (1001 pts)

PASS PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-27.533 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 30.56 MHz
#Res BW 220 kHz #VBW 680 kHz* #Sweep 1.000 s (1001 pts)

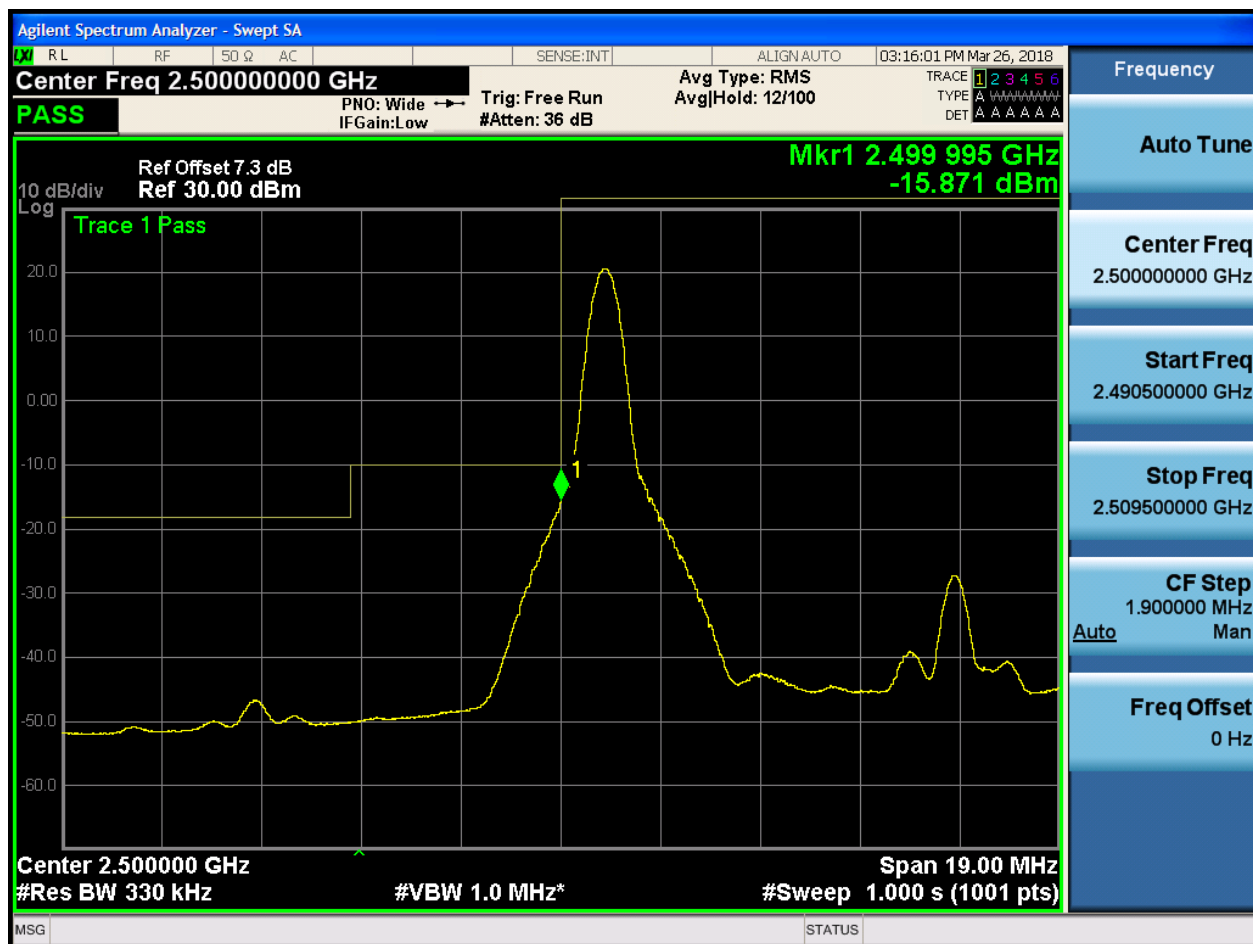
MSG STATUS

Frequency
Auto Tune
Center Freq 2.57000000 GHz
Start Freq 2.554720000 GHz
Stop Freq 2.585280000 GHz
CF Step 3.056000 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





5.1.1.1.3.1.2 Test RB = RB1#74





5.1.1.1.3.1.3 Test RB = RB36#18



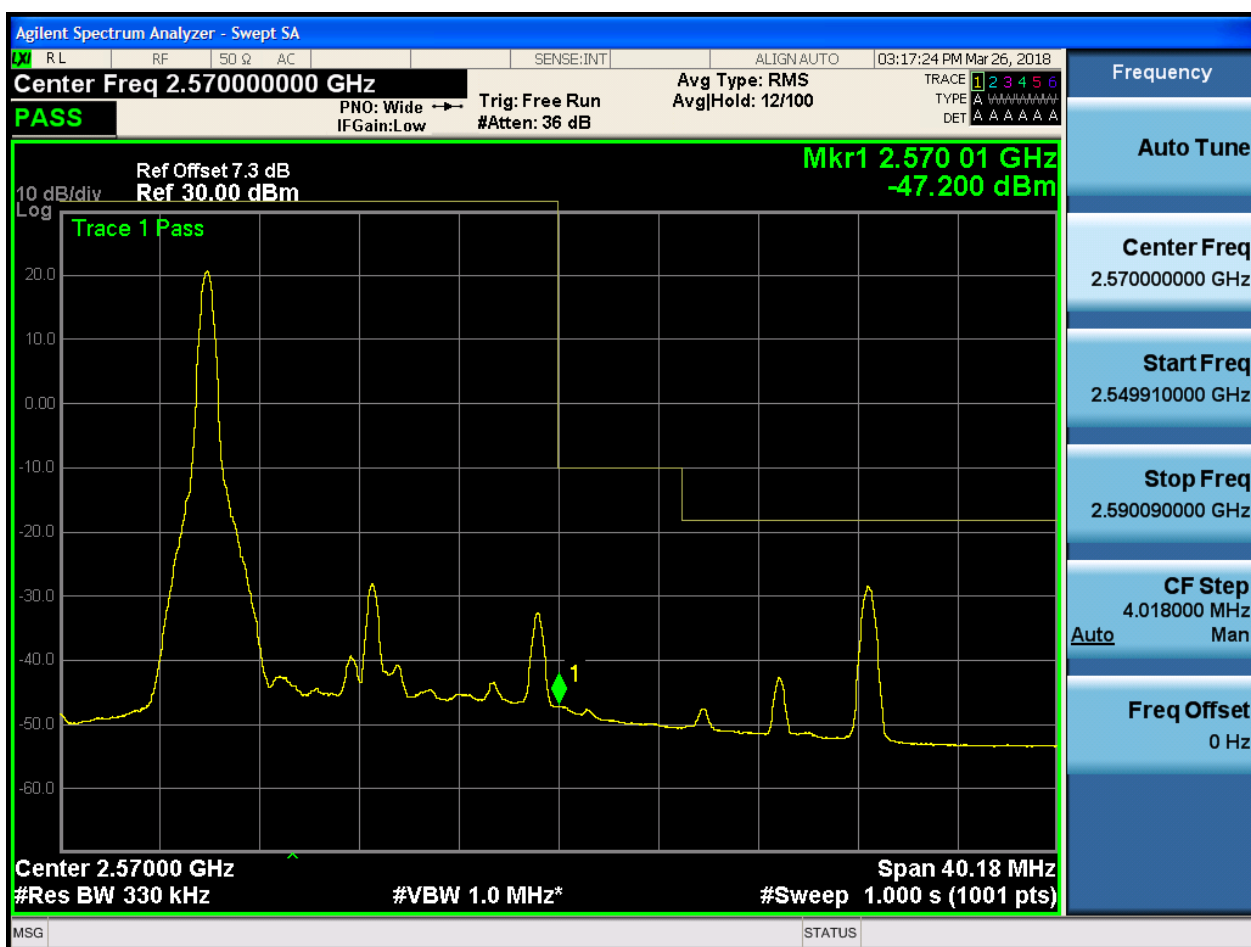


5.1.1.1.3.1.4 Test RB = RB75#0



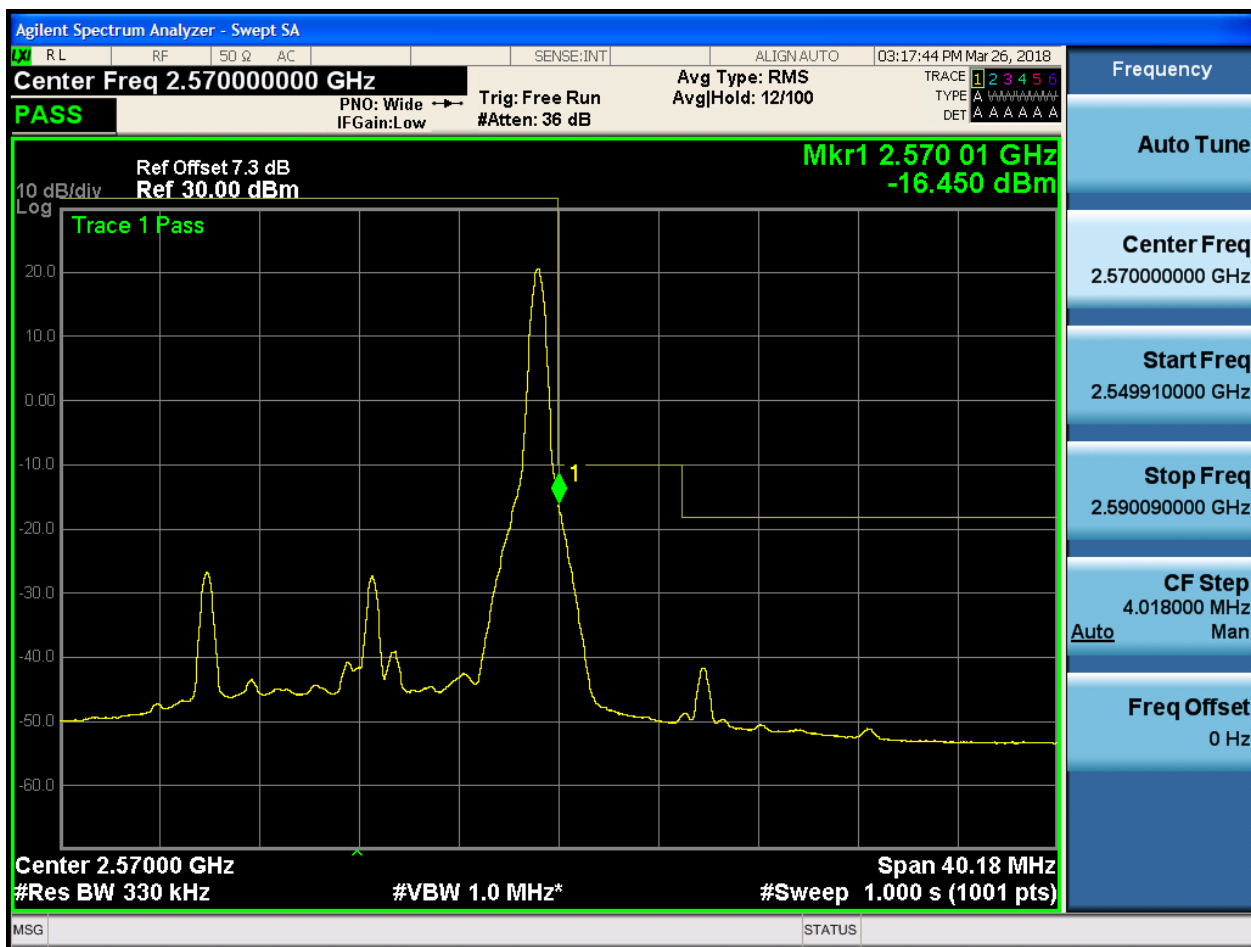
5.1.1.1.3.2 Test Channel = HCH

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

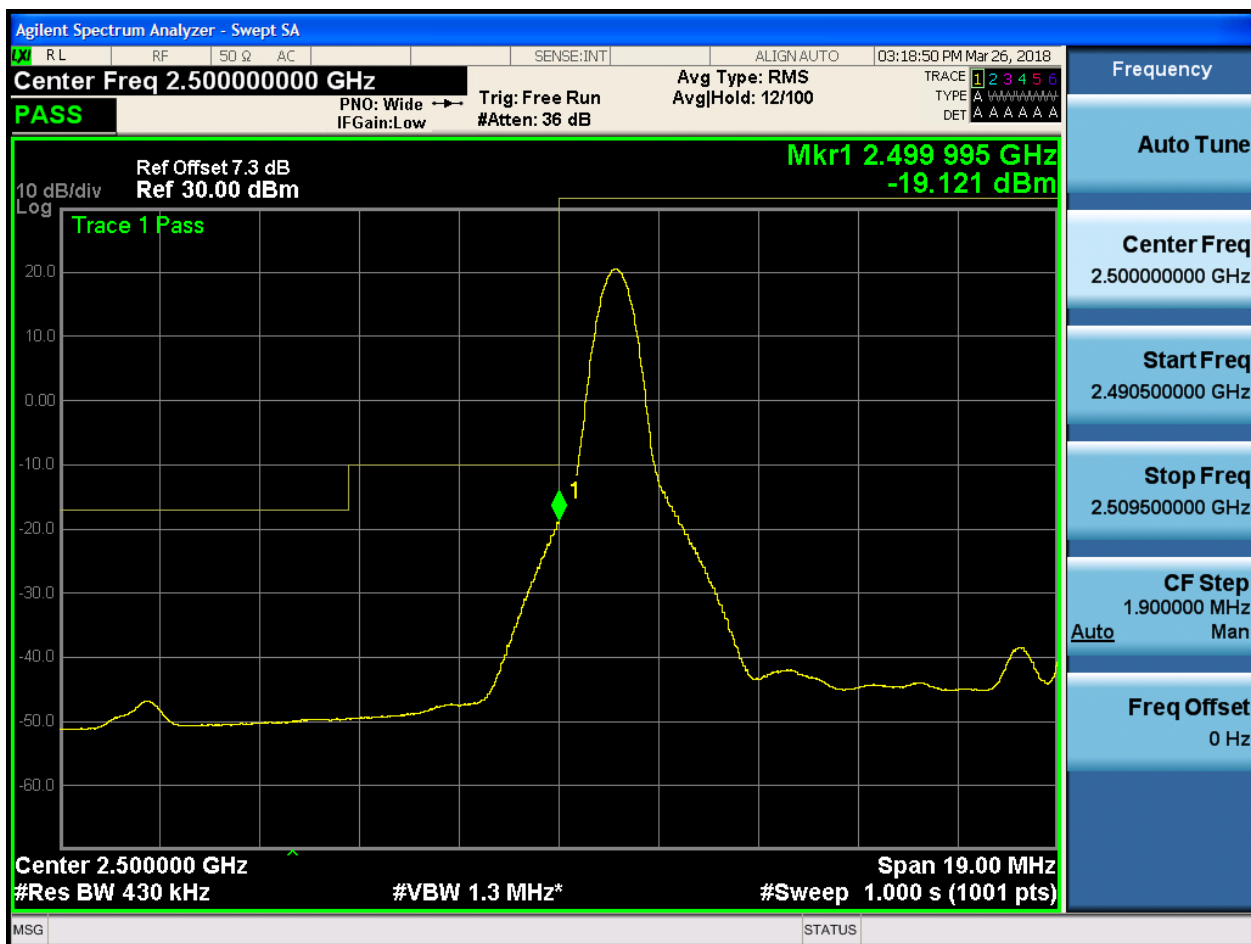


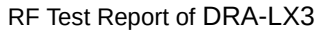


5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:19:10 PM Mar 26, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-47.576 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 430 kHz #VBW 1.3 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

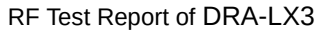
Center Freq
2.500000000 GHz

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 03:19:30 PM Mar 26, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-31.834 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 430 kHz #VBW 1.3 MHz #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

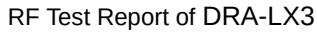
Center Freq
2.500000000 GHz

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

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.499 995 GHz
-29.176 dBm

Center 2.500000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

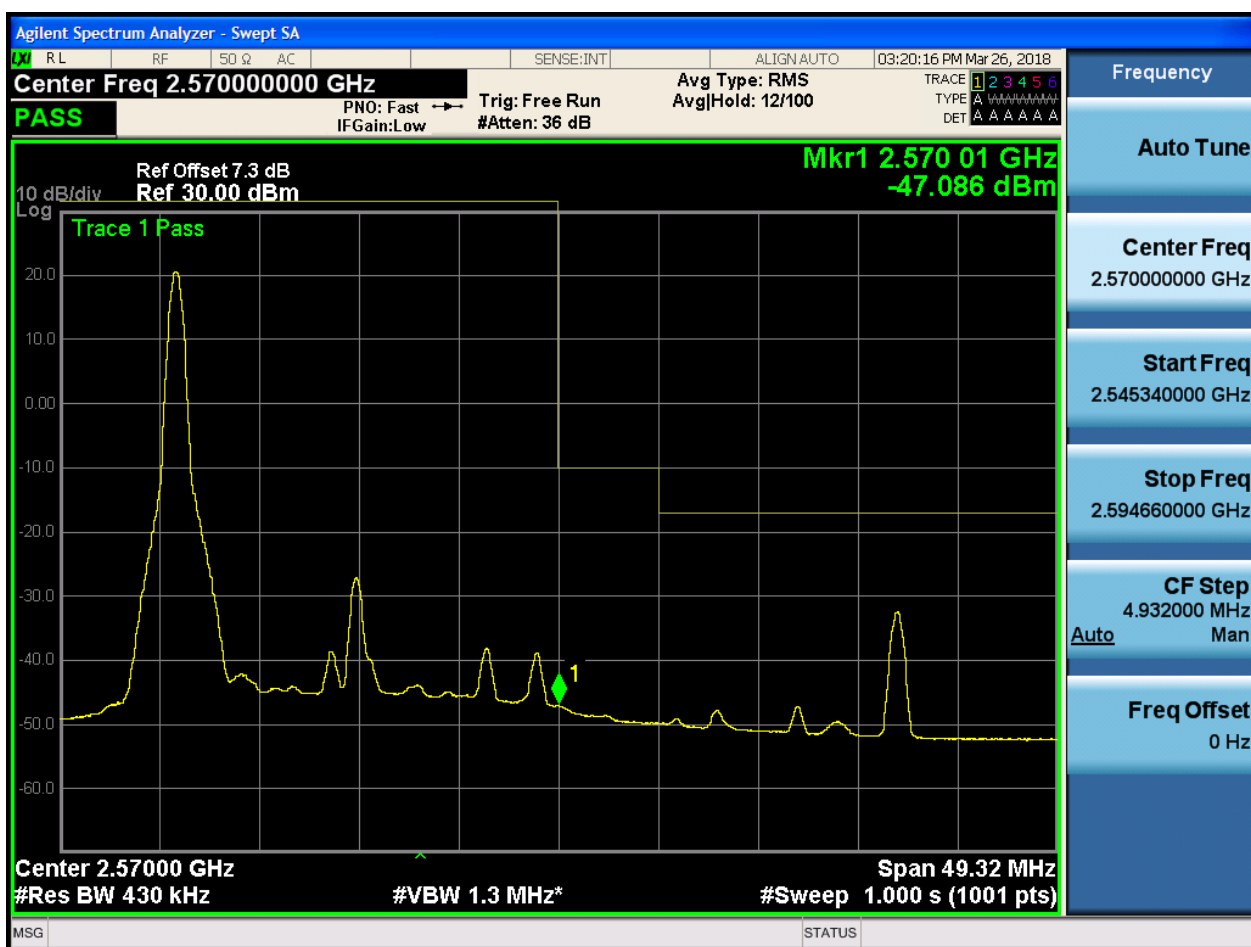
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



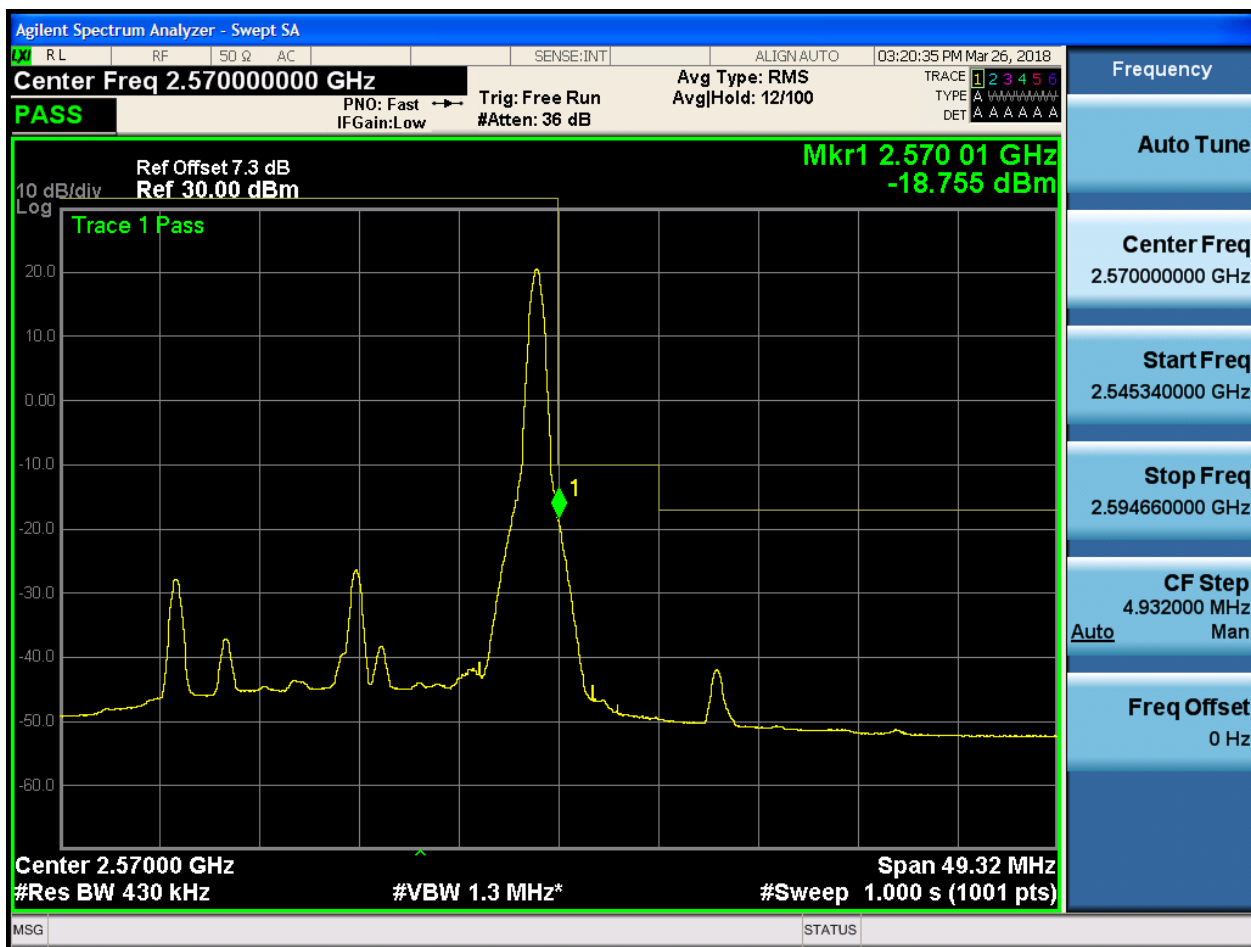
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





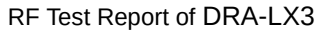
5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:21:15 PM Mar 26, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-30.273 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*
Span 49.32 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.545340000 GHz

Stop Freq
2.594660000 GHz

CF Step
4.932000 MHz
Auto Man

Freq Offset
0 Hz

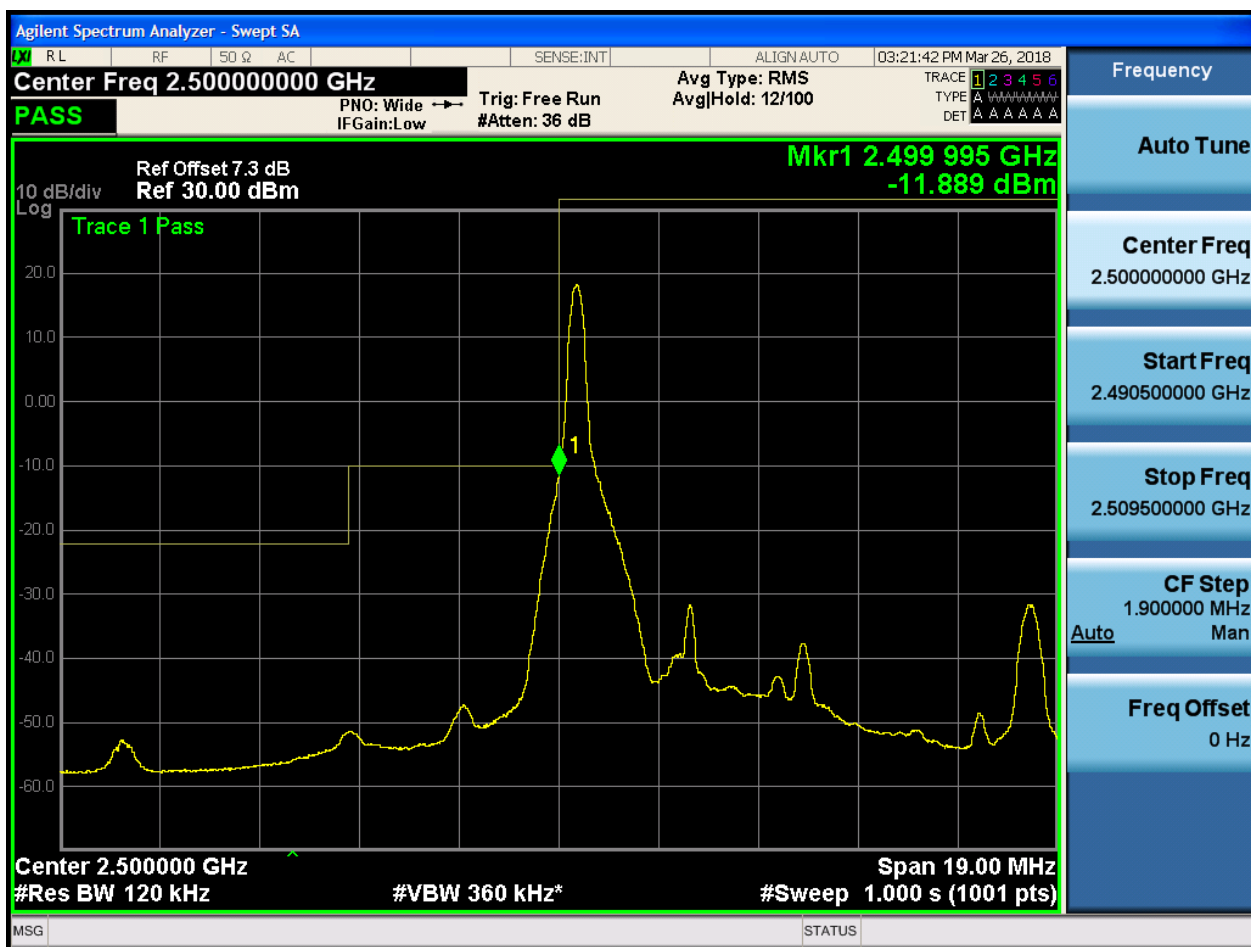


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

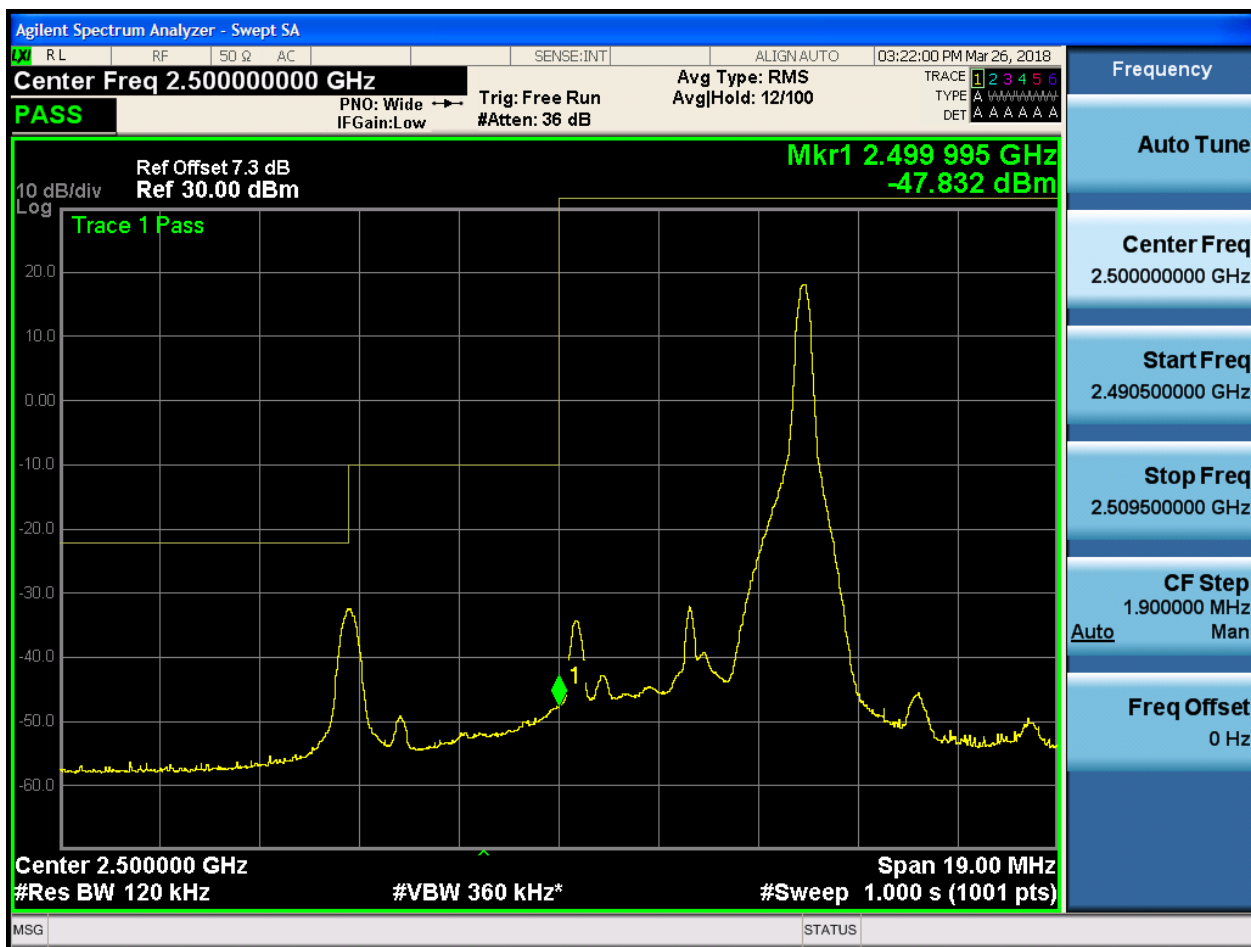
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



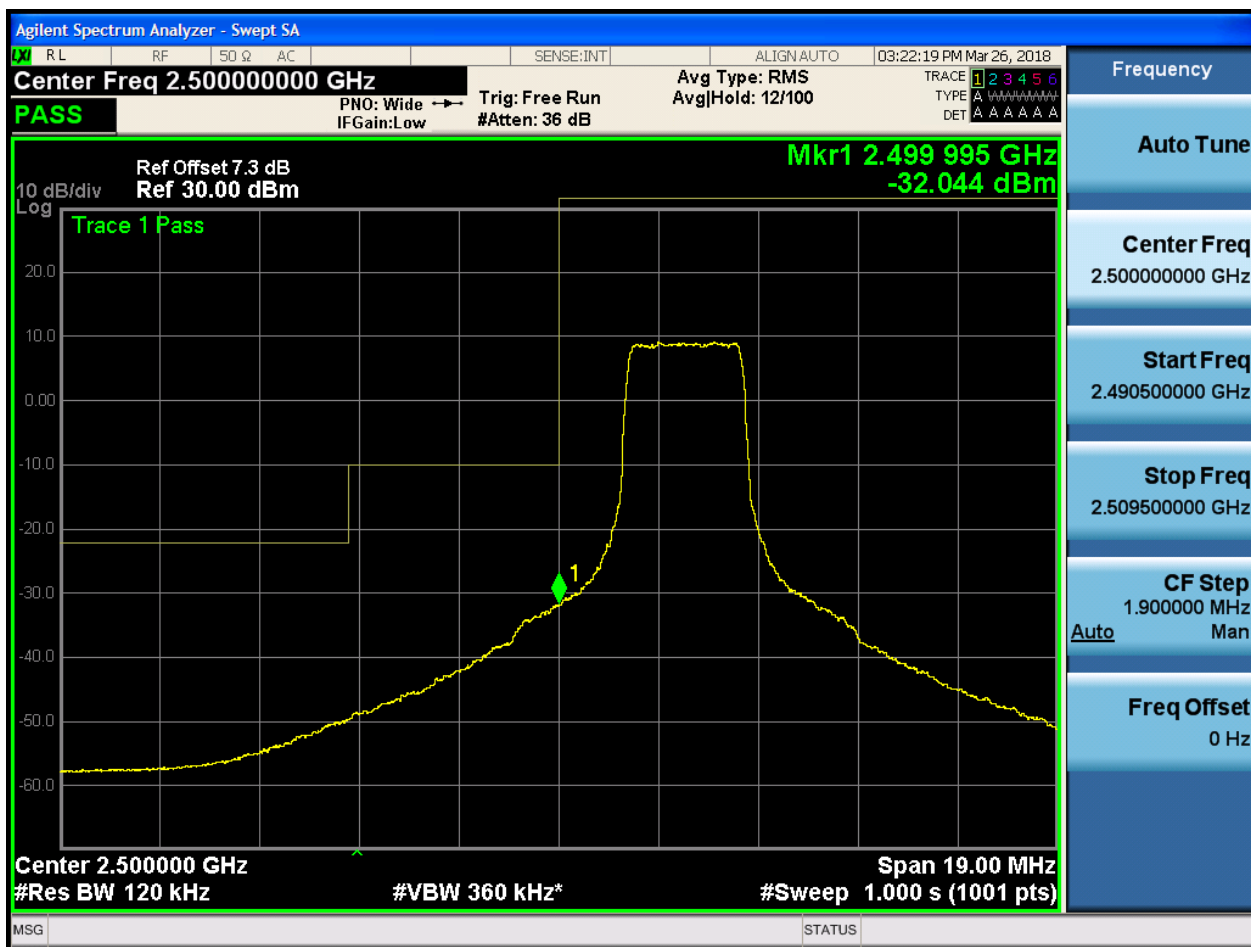


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6



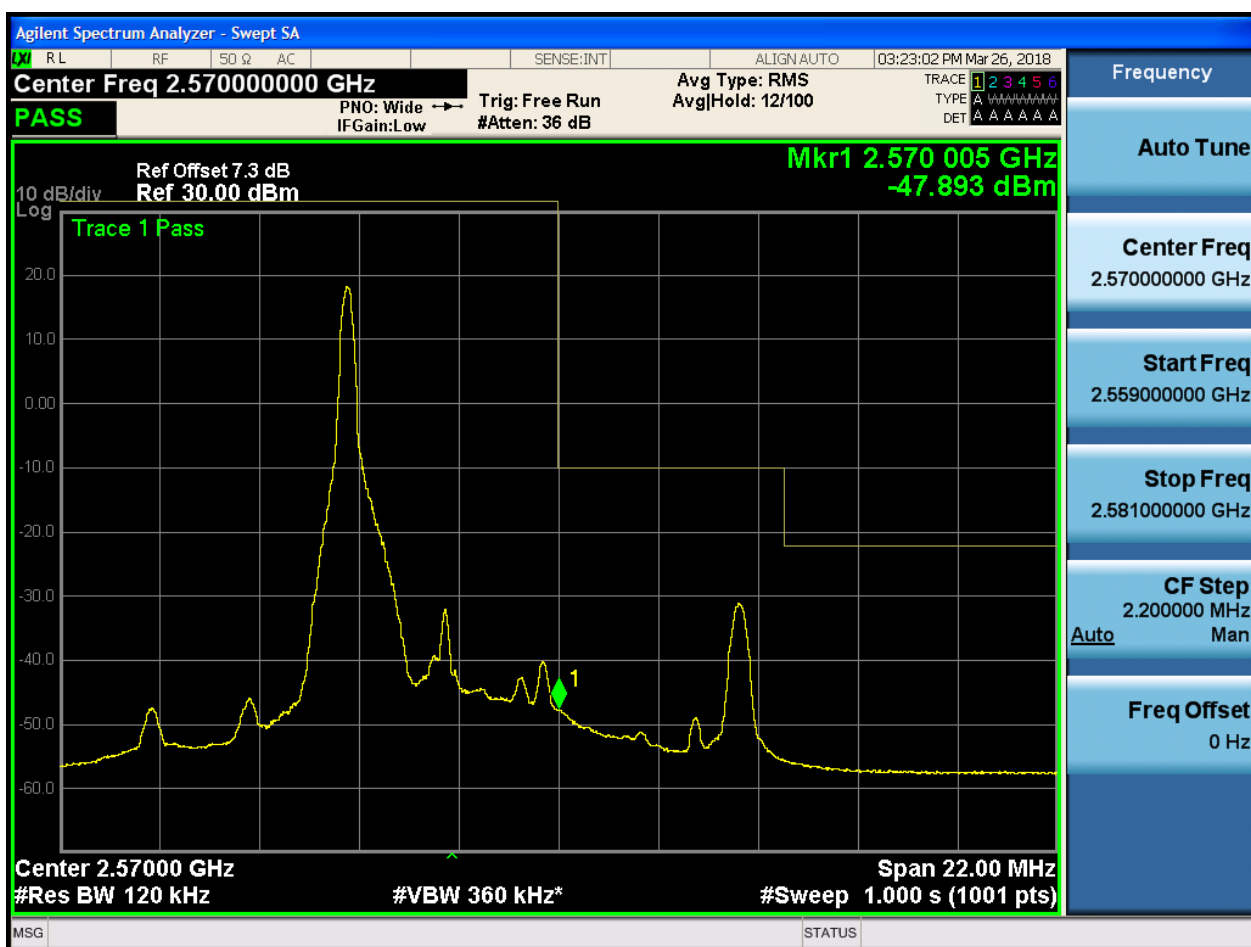


5.1.1.2.1.1.4 Test RB = RB25#0



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



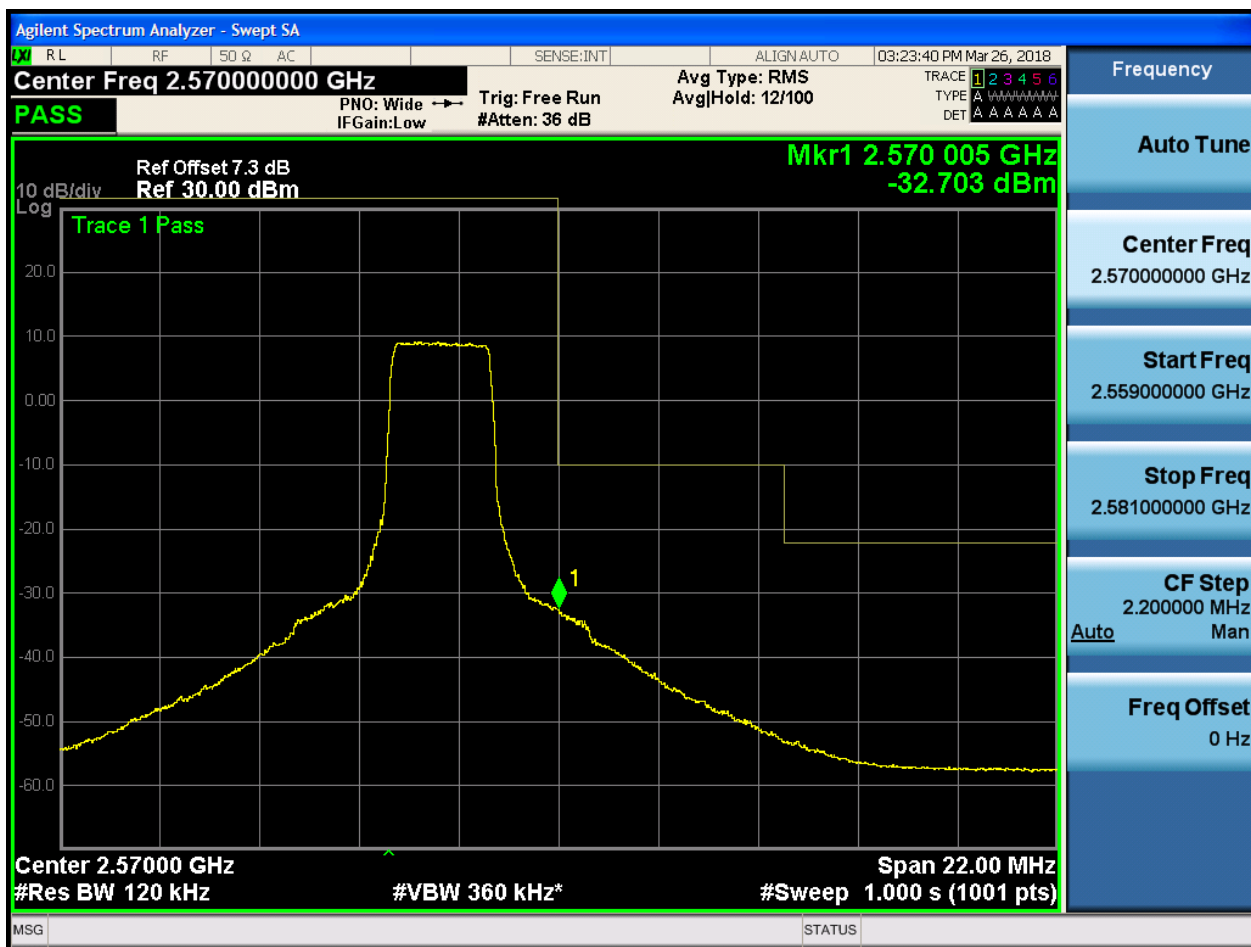


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

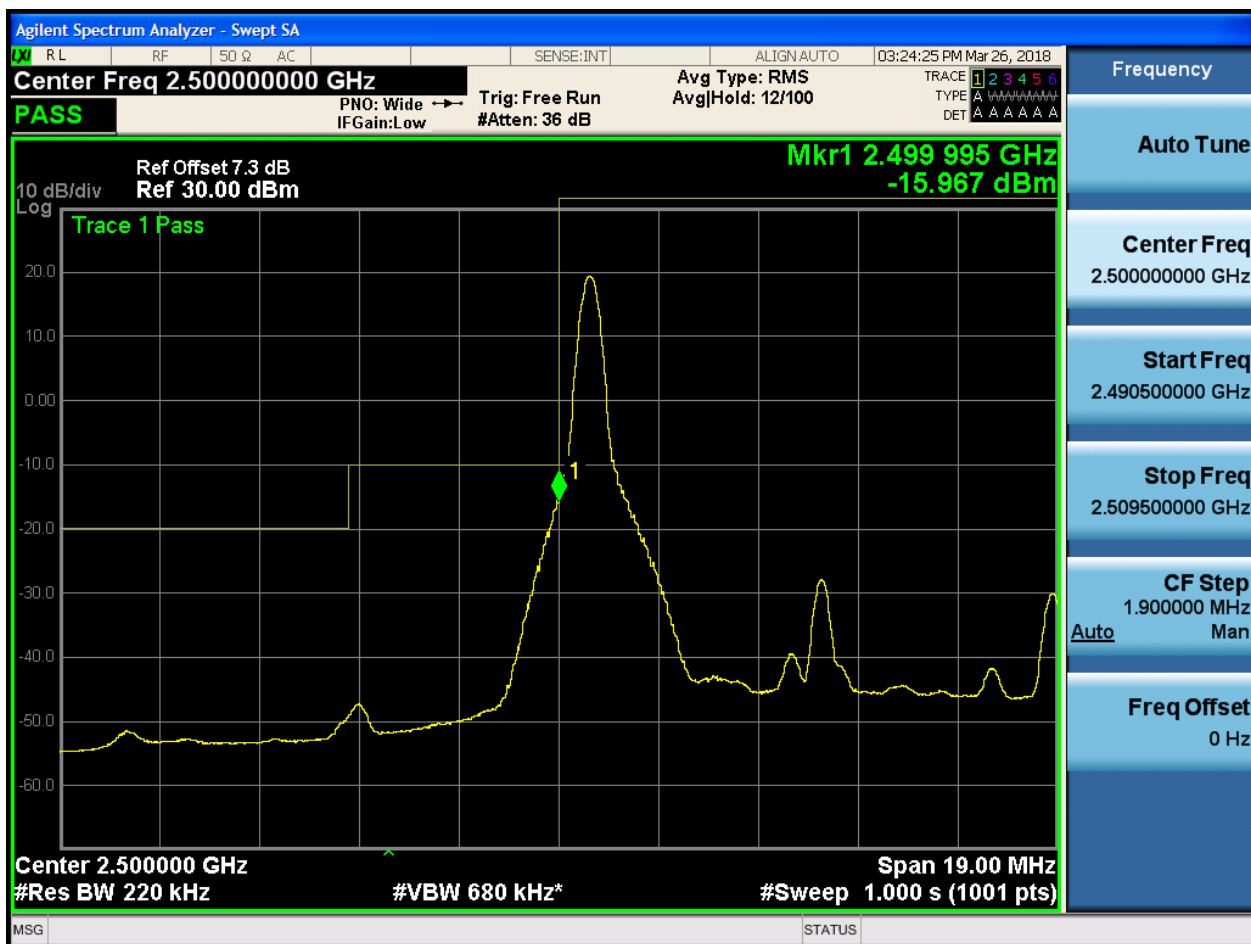




5.1.1.2.2 Test Bandwidth = 10

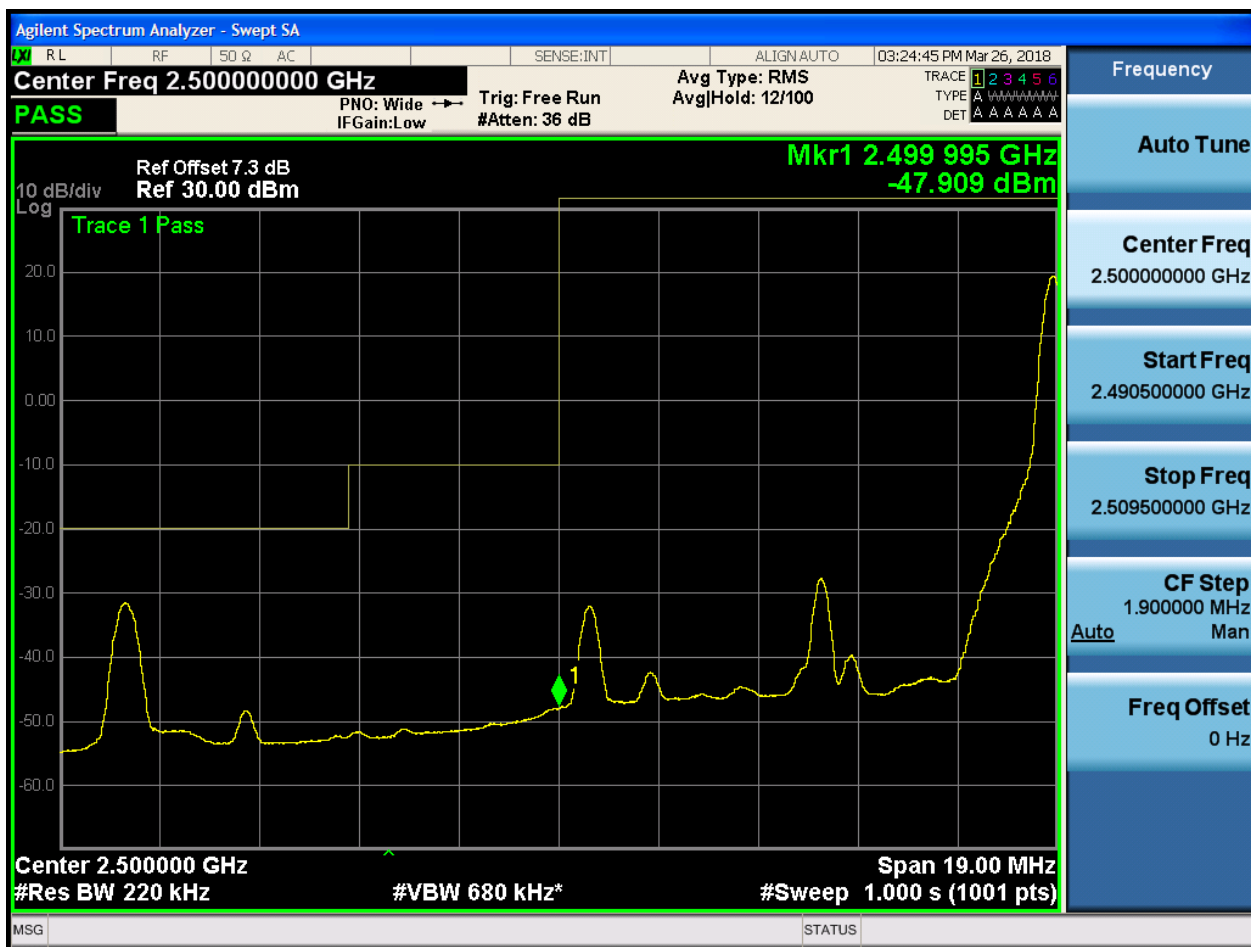
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





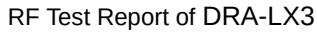
5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.499 995 GHz
-28.086 dBm

Center 2.500000 GHz
#Res BW 220 kHz
#VBW 680 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

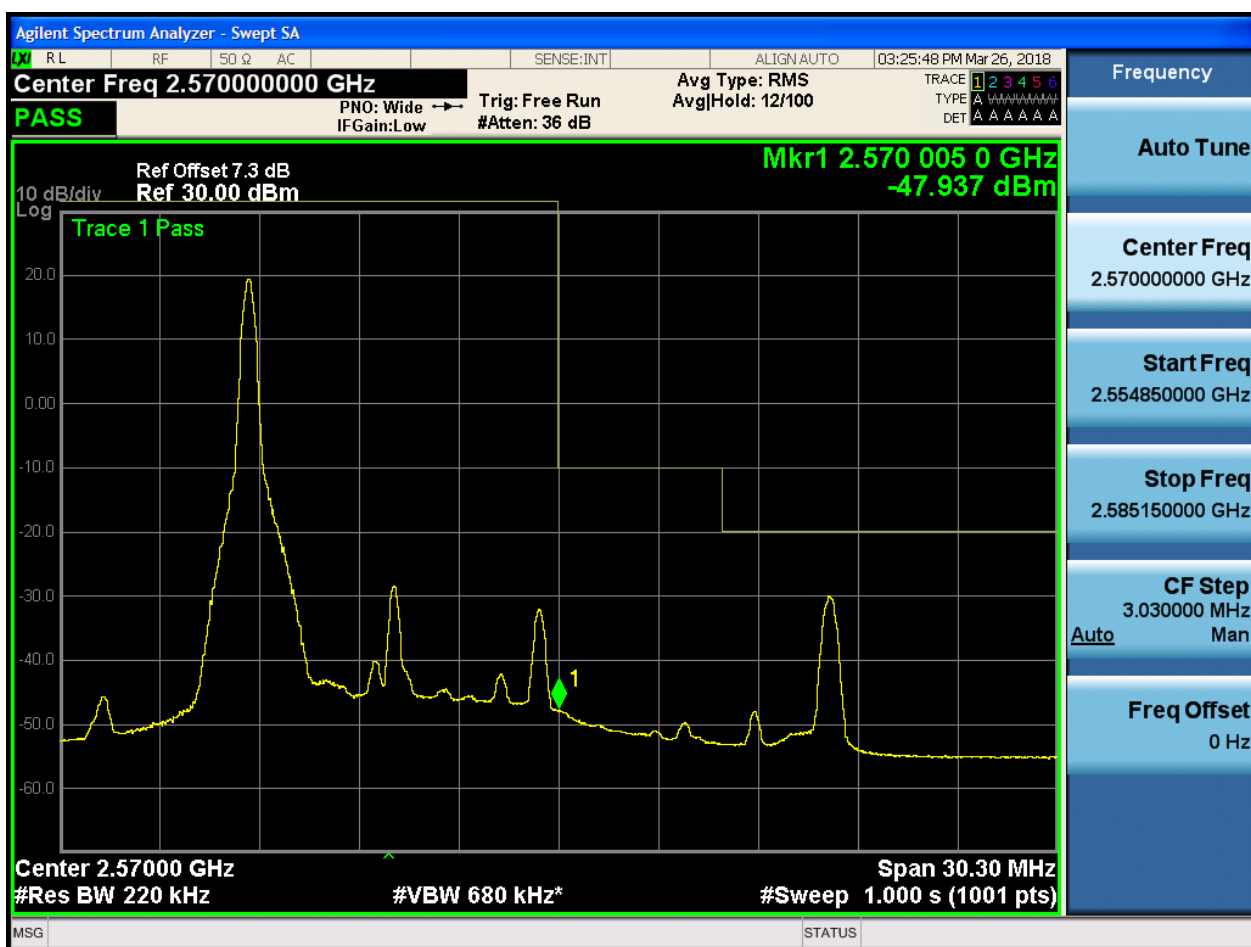
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

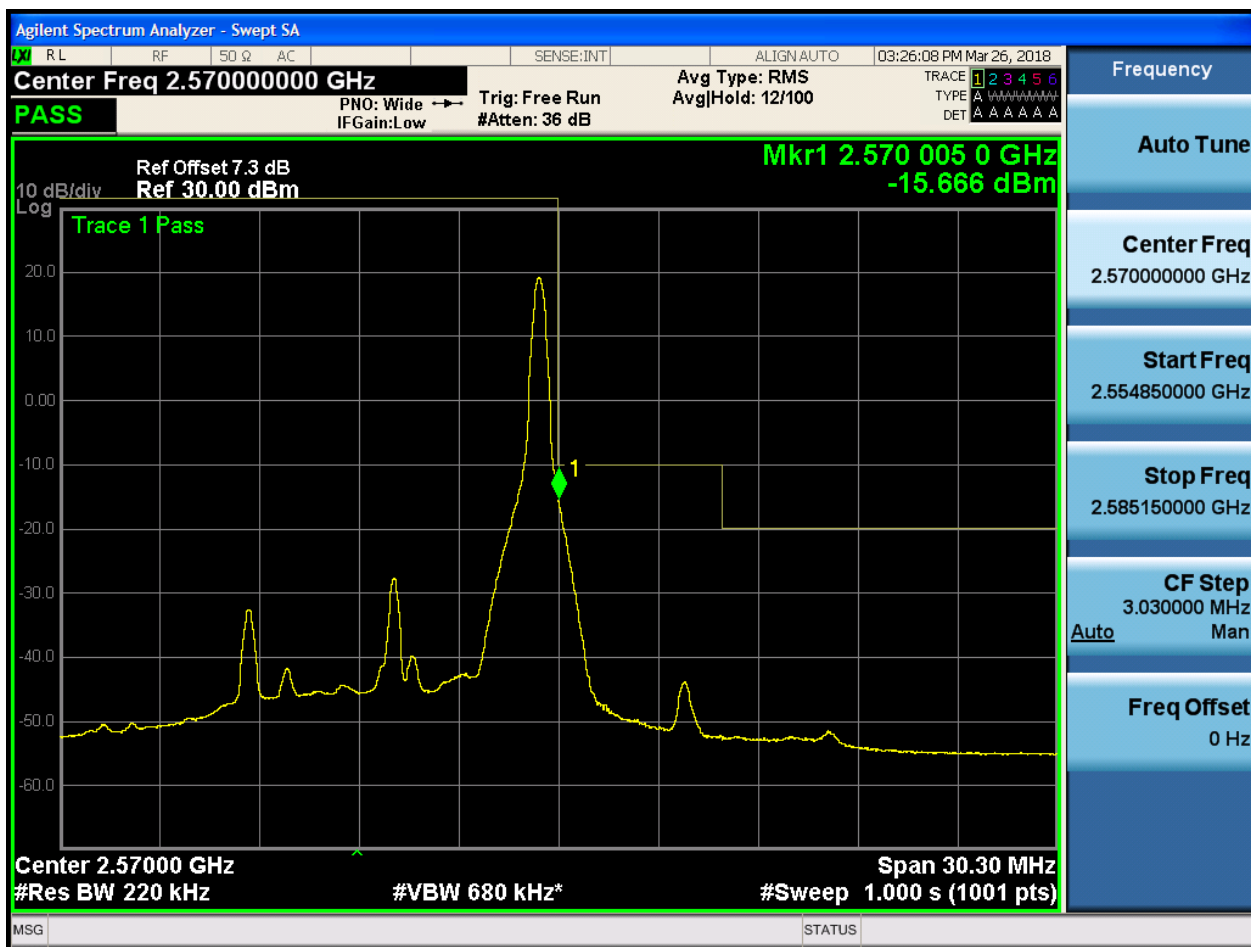
5.1.1.2.2.2 Test Channel = HCH

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

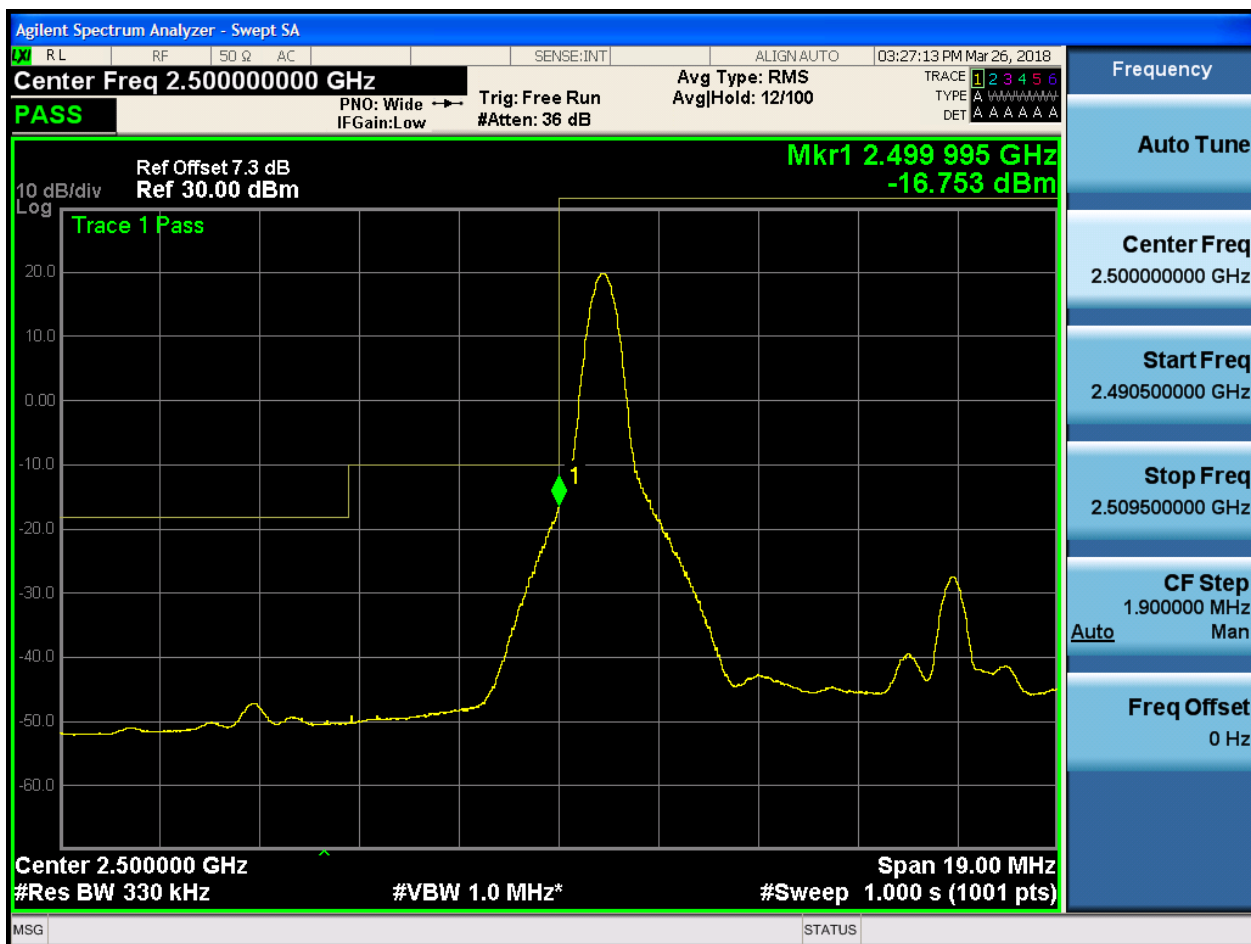


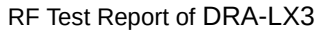


5.1.1.2.3 Test Bandwidth = 15

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:27:33 PM Mar 26, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-47.754 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 330 kHz #VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

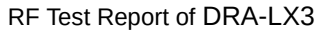
Center Freq
2.500000000 GHz

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

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-32.946 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 330 kHz
#VBW 1.0 MHz*
Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

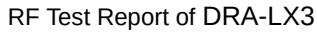
Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:28:12 PM Mar 26, 2018

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 A A A A A A
DET A A A A A A

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-28.920 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 330 kHz #VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

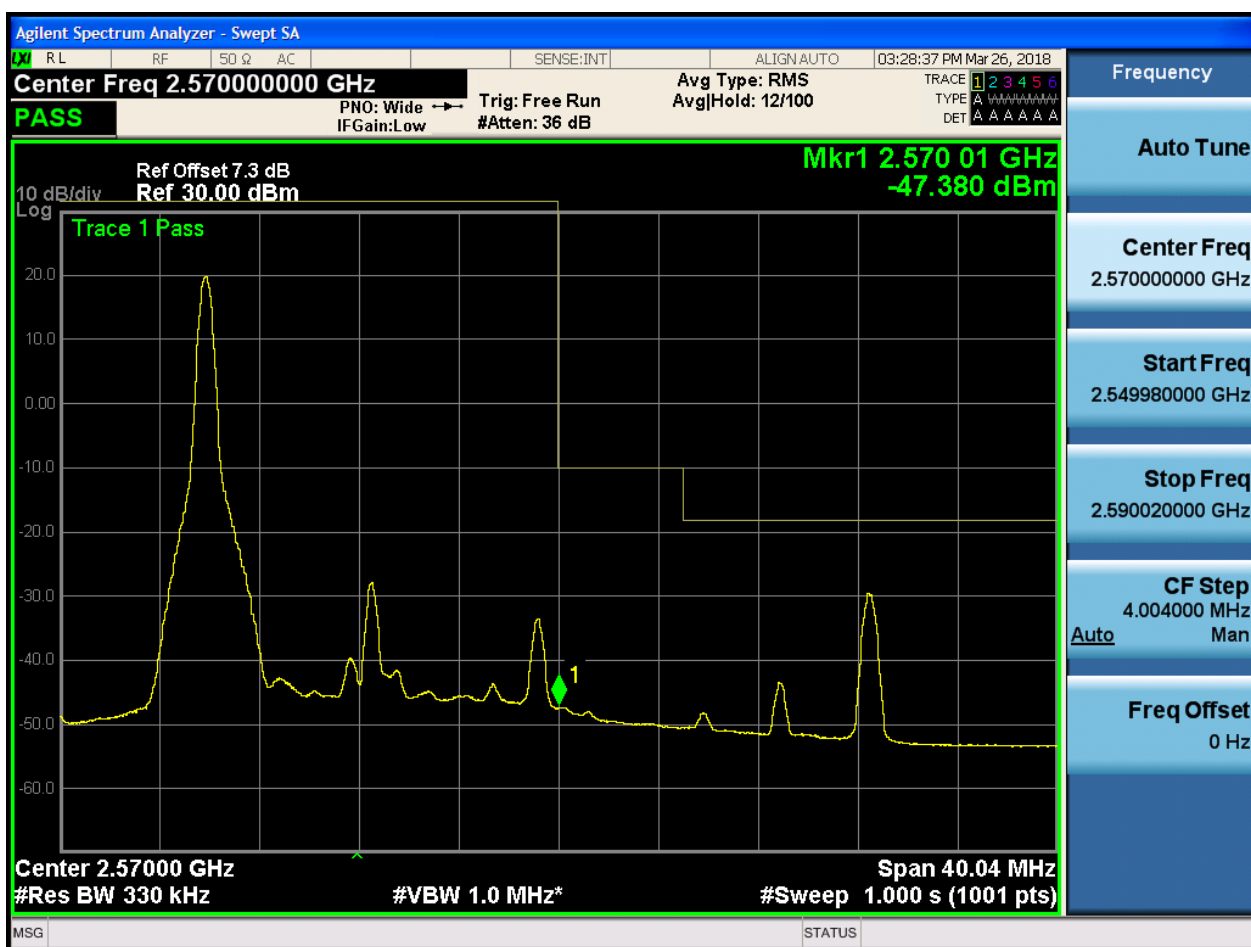
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

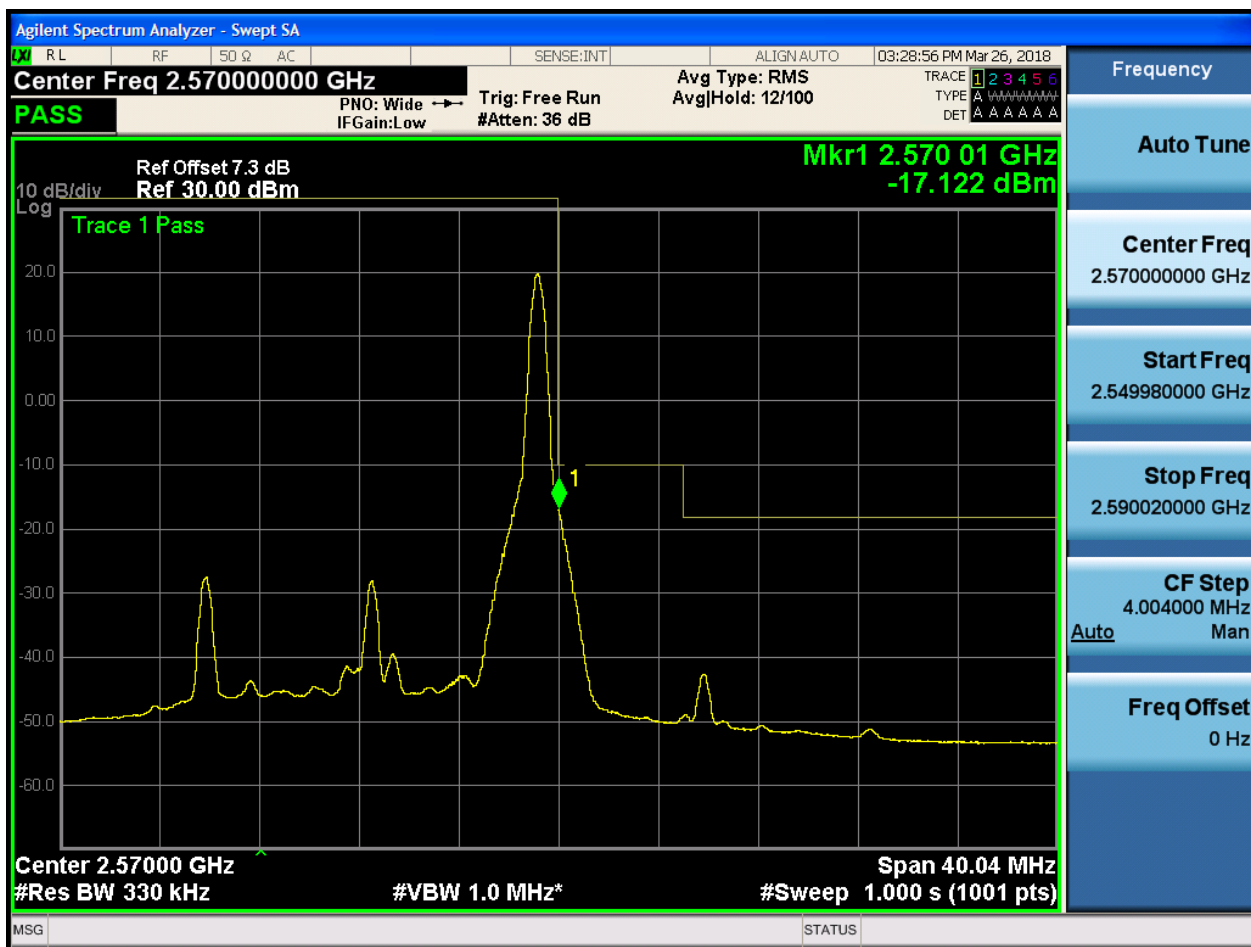
5.1.1.2.3.2 Test Channel = HCH

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

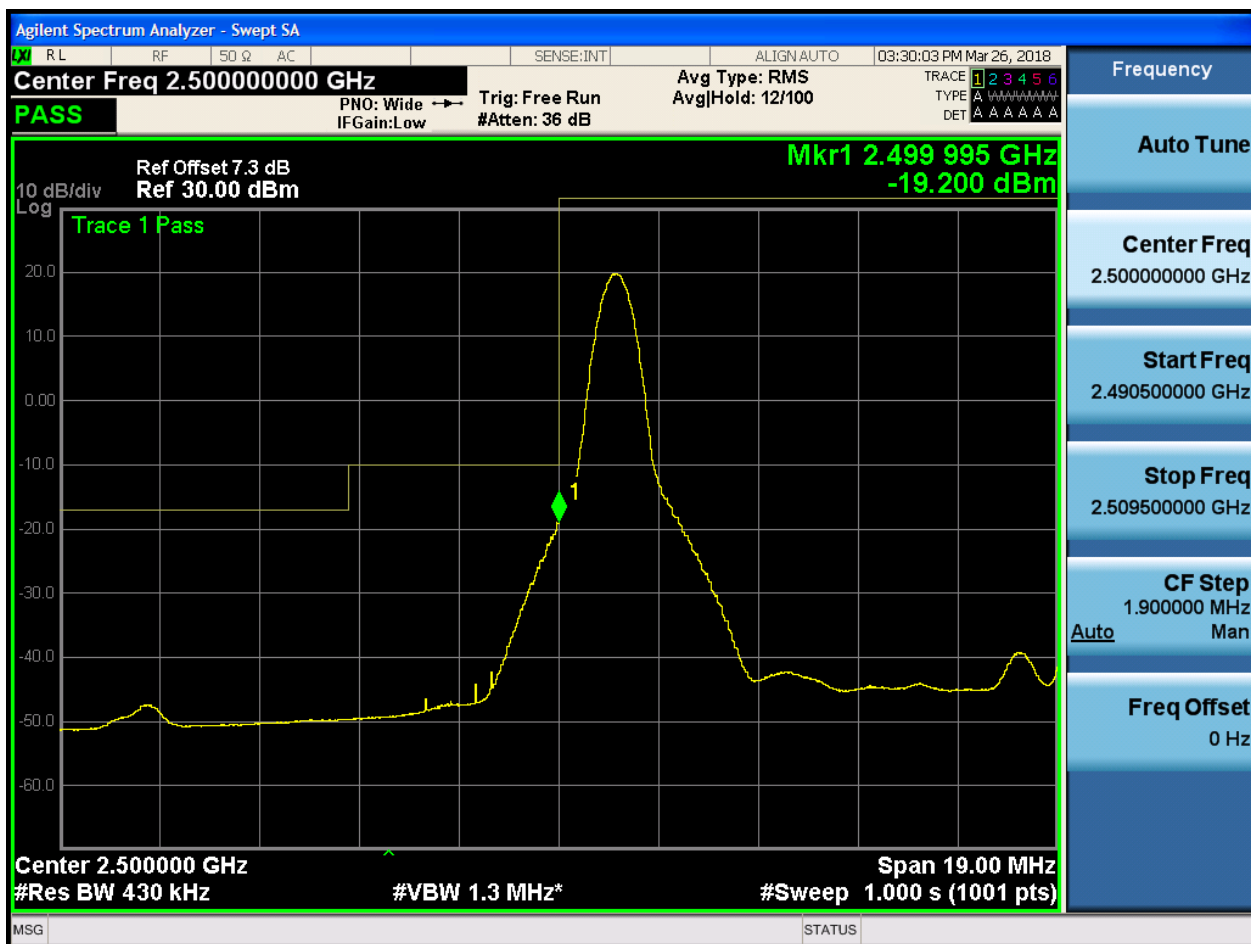




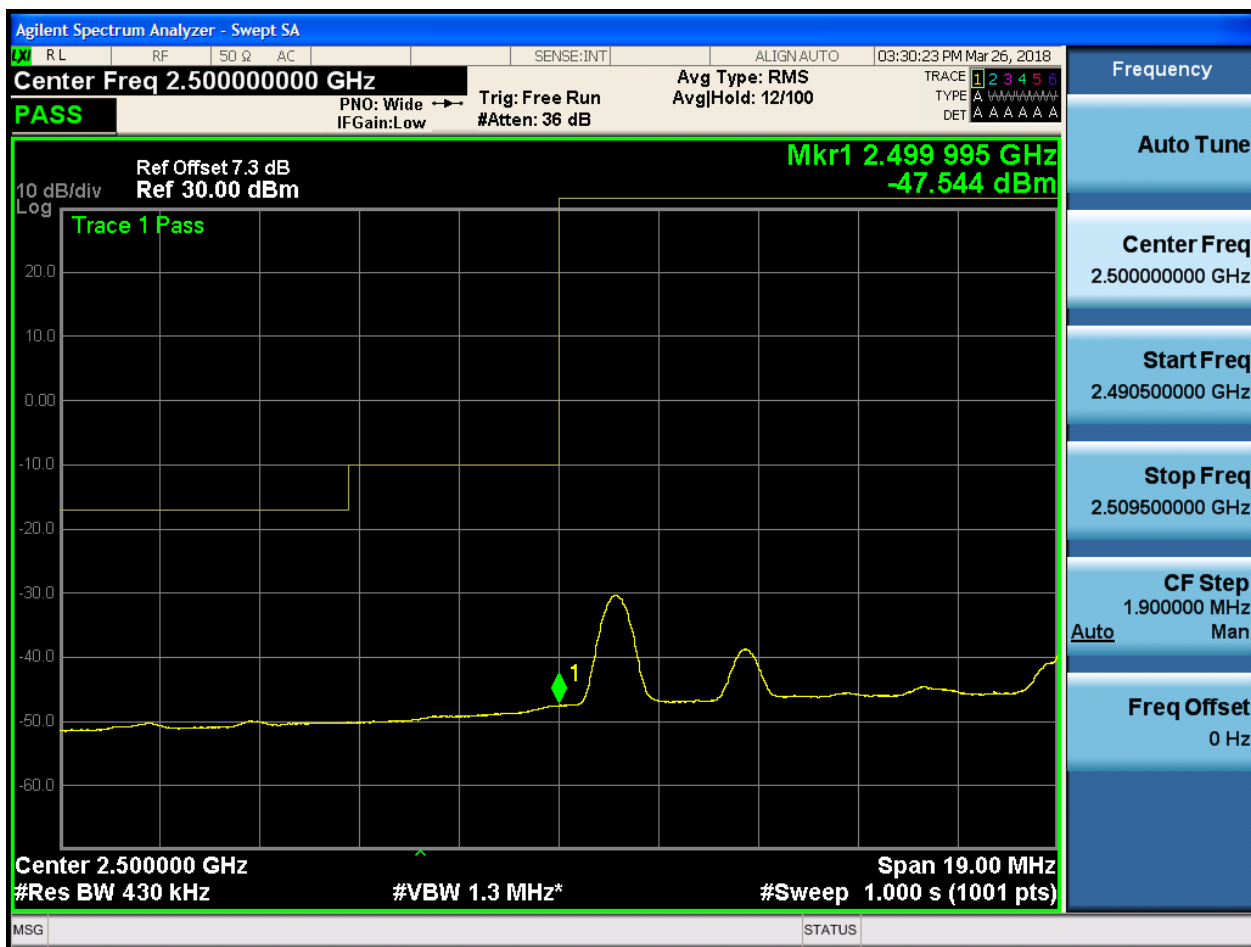
5.1.1.2.4 Test Bandwidth = 20

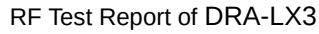
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



5.1.1.2.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-33.909 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

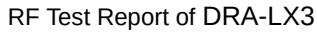
Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer interface. The main display is a log-frequency plot with a yellow trace. The trace shows a relatively flat signal level around -45 dBm from 2.49 GHz to 2.499 GHz, followed by a sharp rise to about -5 dBm at 2.509 GHz. A yellow marker labeled '1' is placed on the trace at approximately 2.499995 GHz with a level of -33.909 dBm. The top of the screen displays the center frequency as 2.500000000 GHz and the status as 'PASS'. The right side of the screen has a vertical menu with options like 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', and 'Freq Offset'. The bottom of the screen shows the span as 19.00 MHz, resolution bandwidth as 430 kHz, and sweep time as 1.000 s.



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:31:02 PM Mar 26, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 430 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-31.197 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 430 kHz #VBW 1.3 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



5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0

