



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

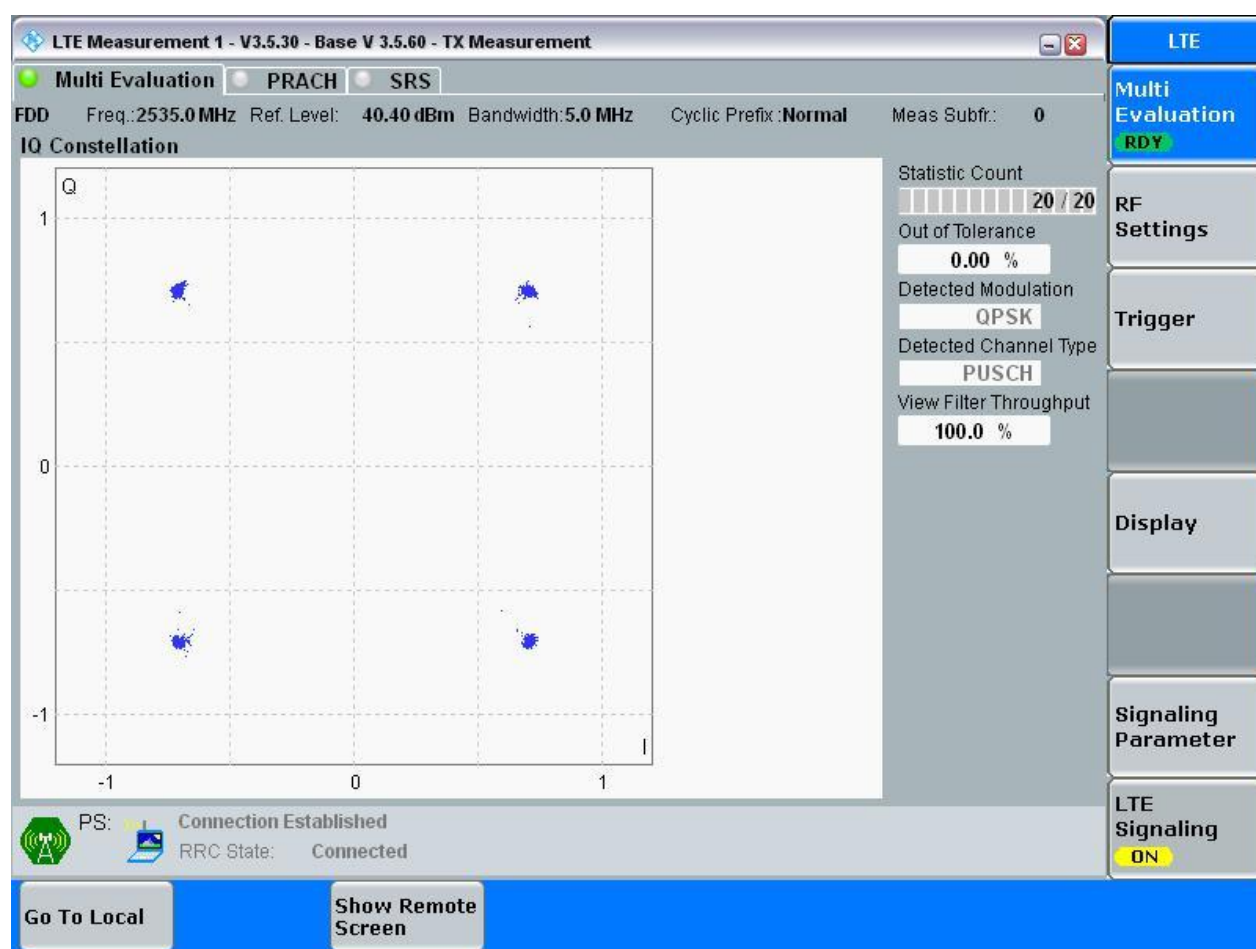
3.1.1 Test Band = BAND7

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

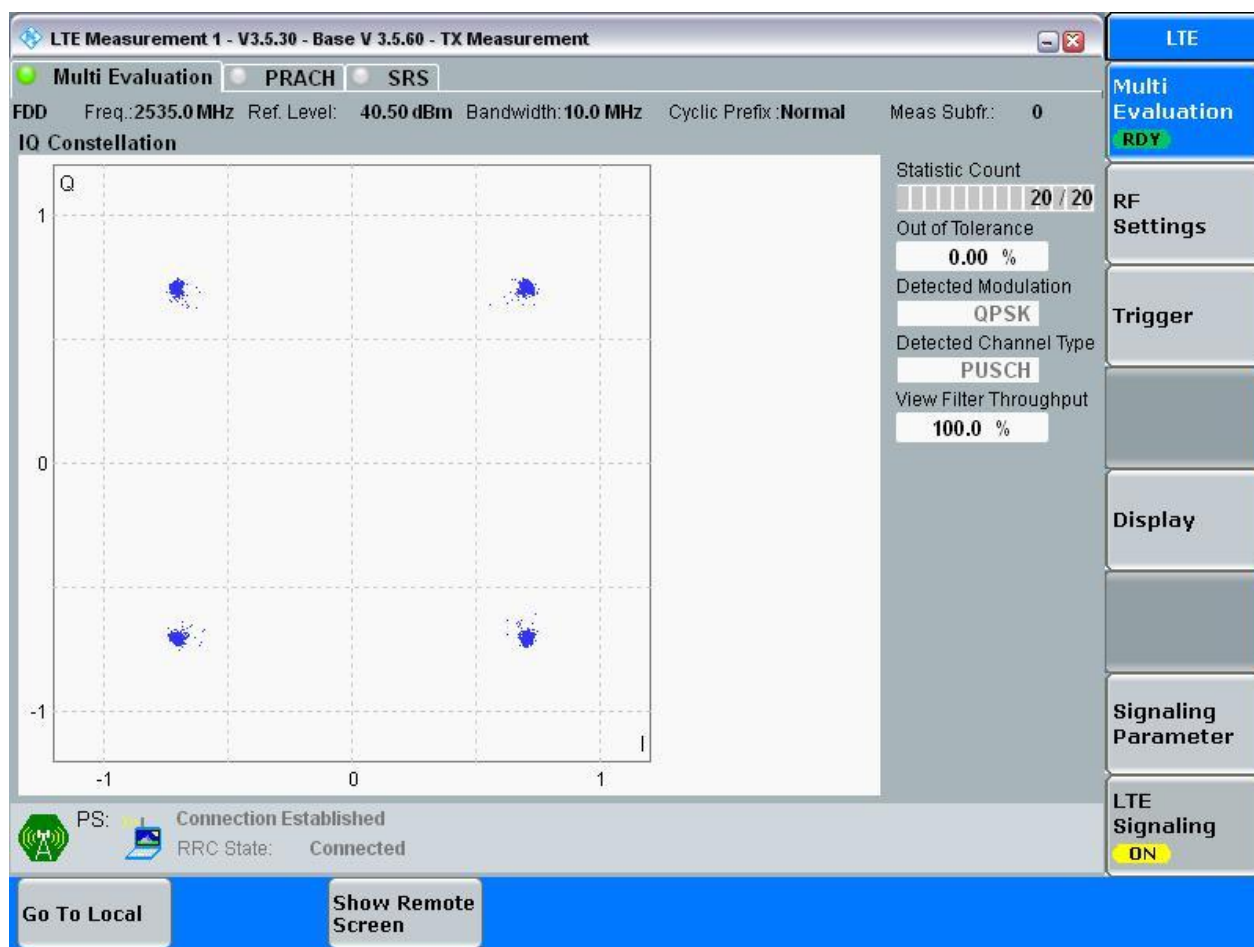
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

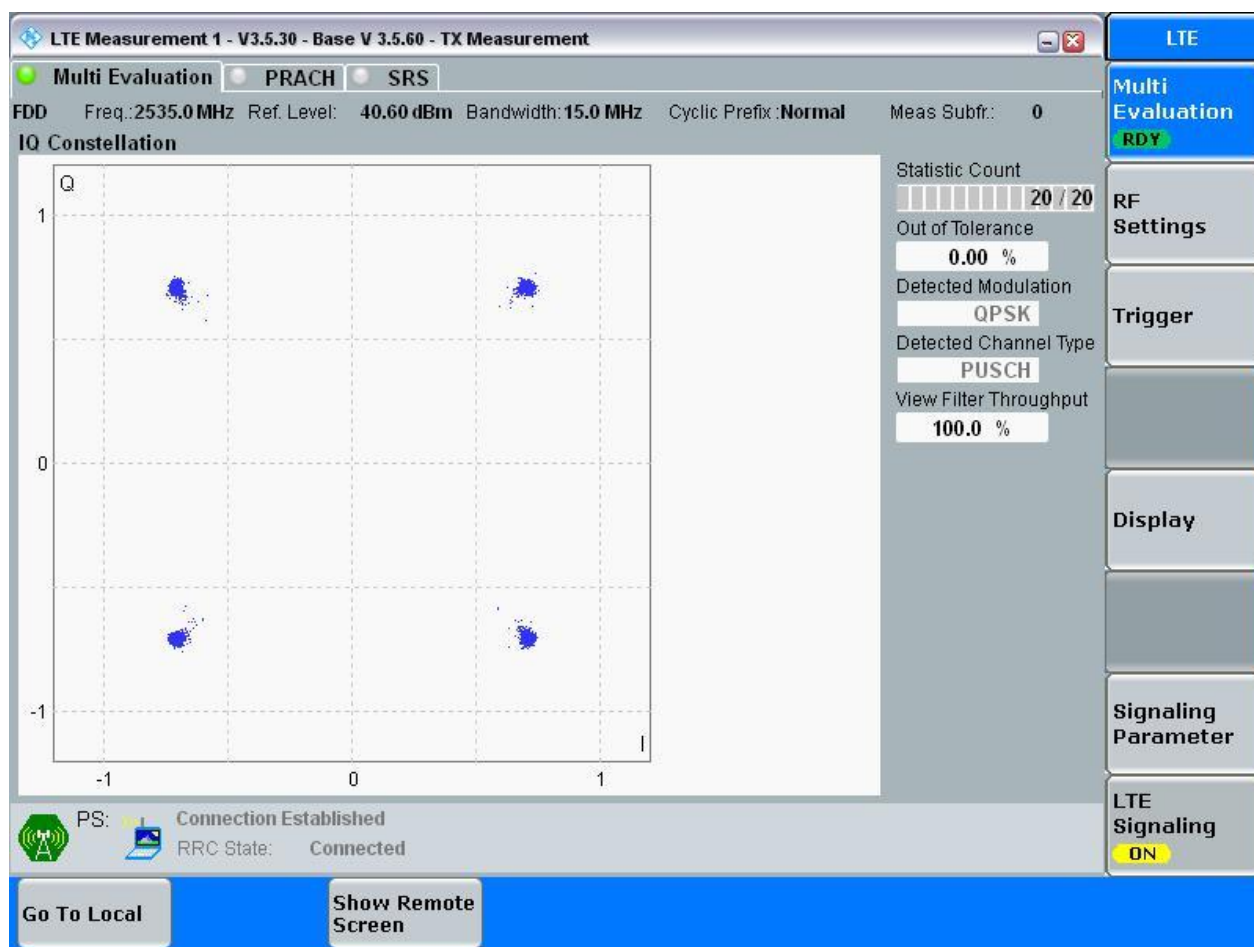
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

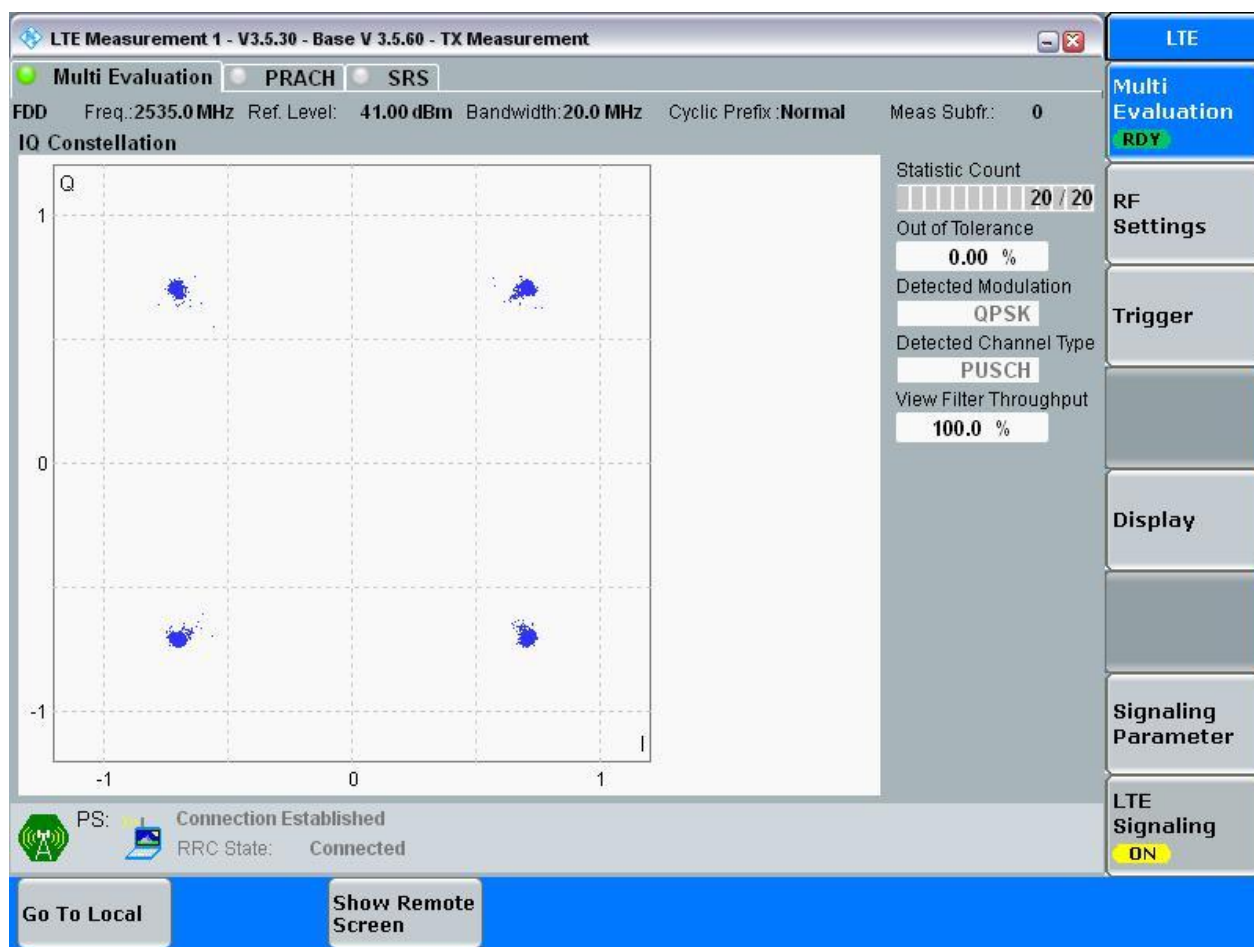
3.1.1.1.3.1.1 Test RB = RB75#0



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

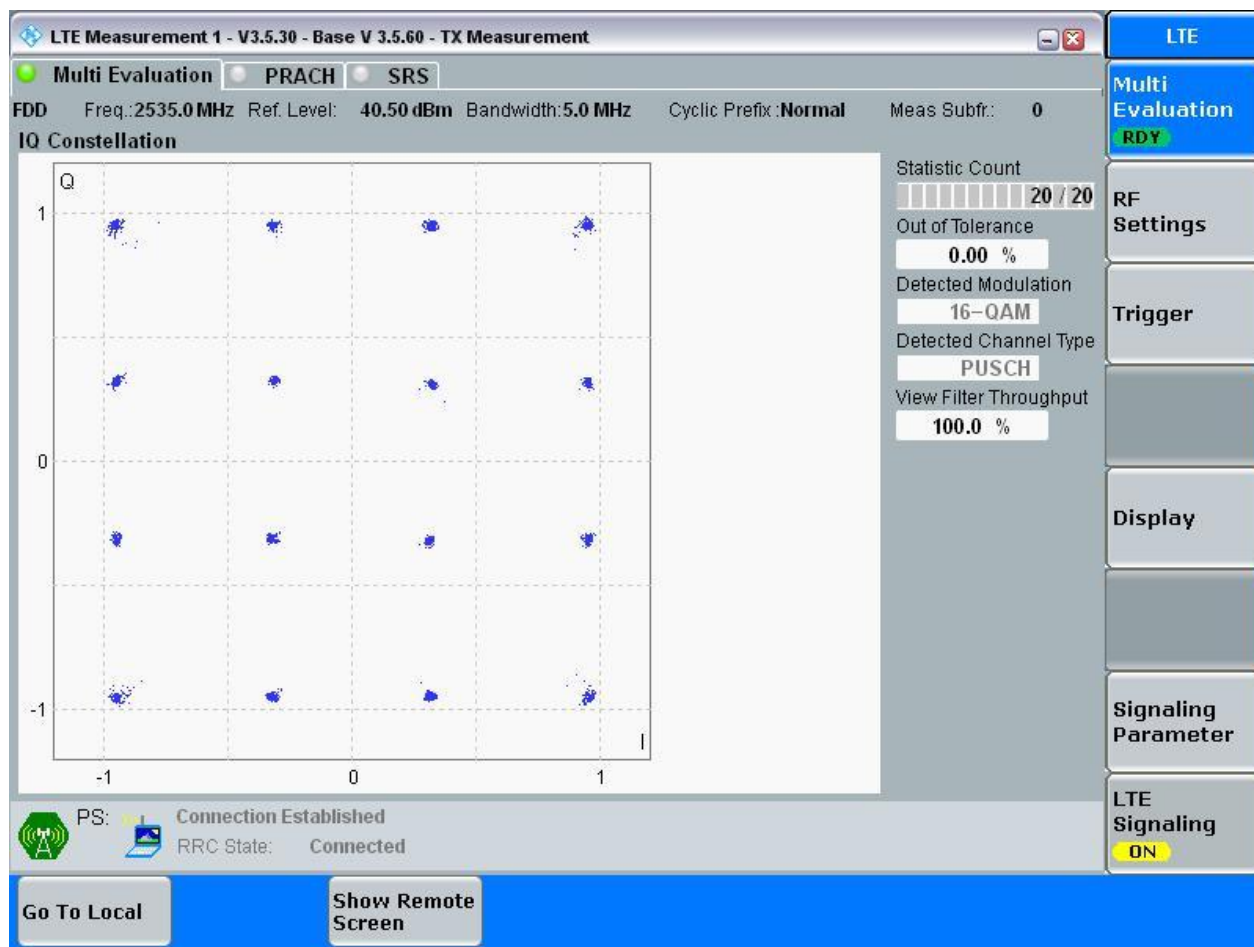


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

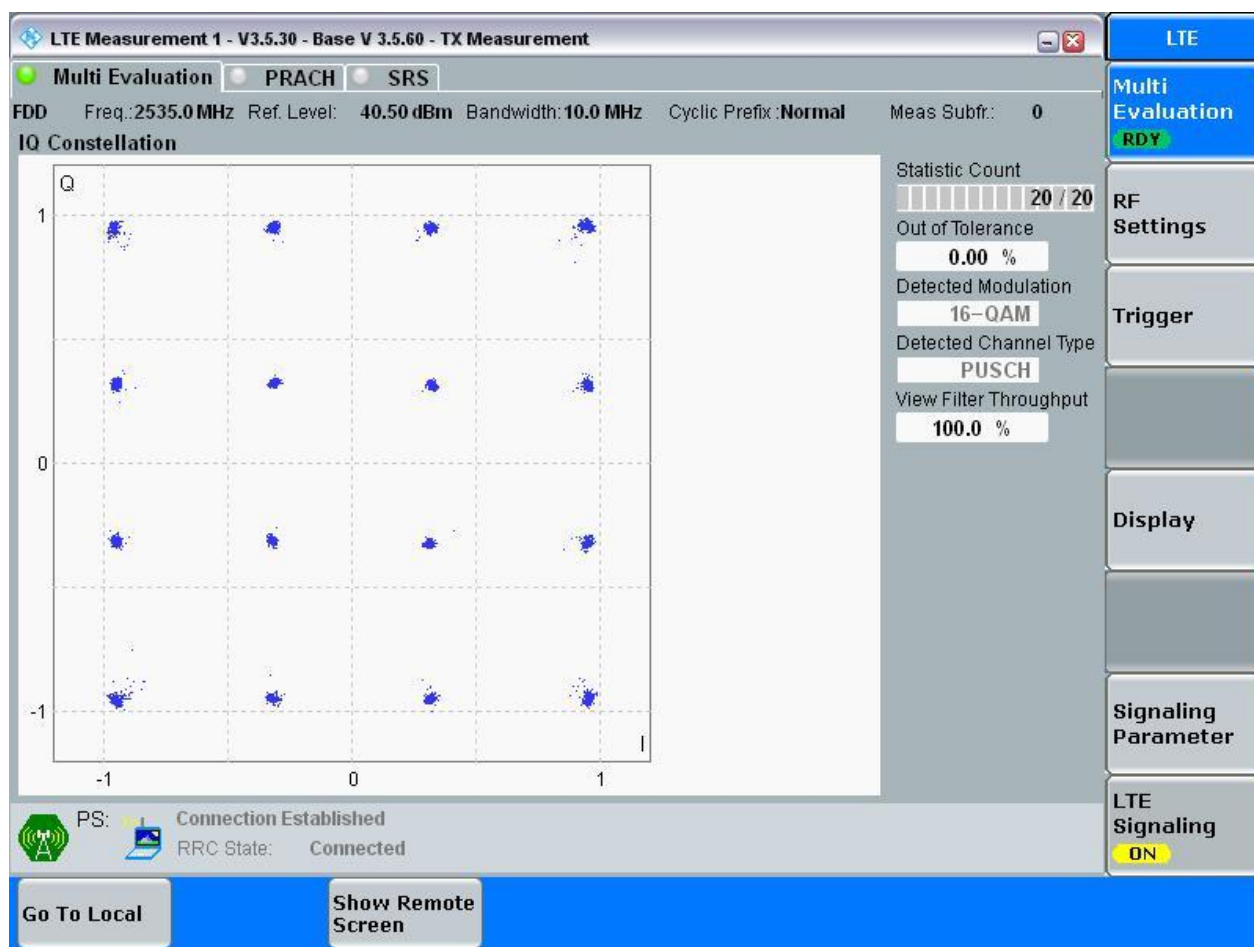
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

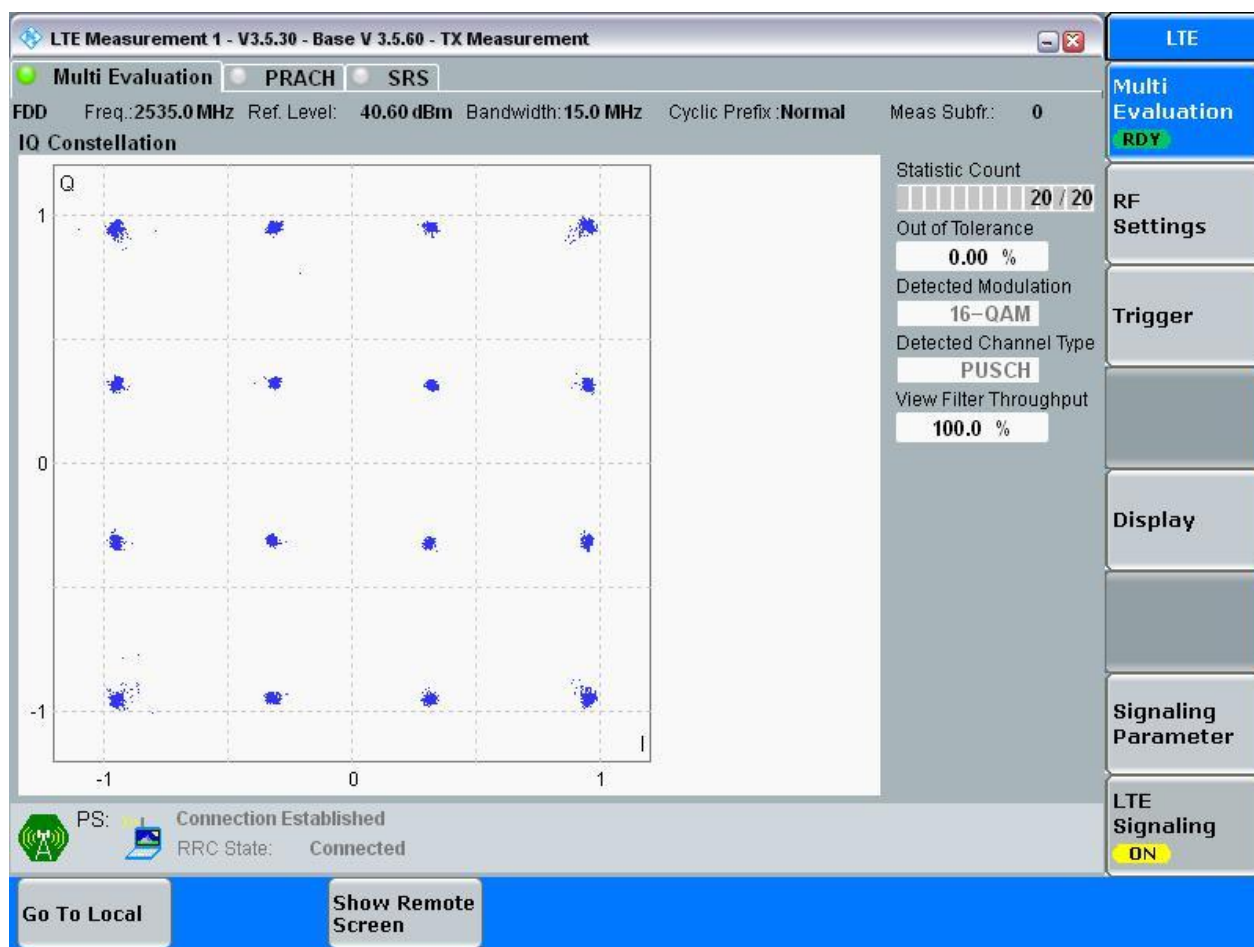
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

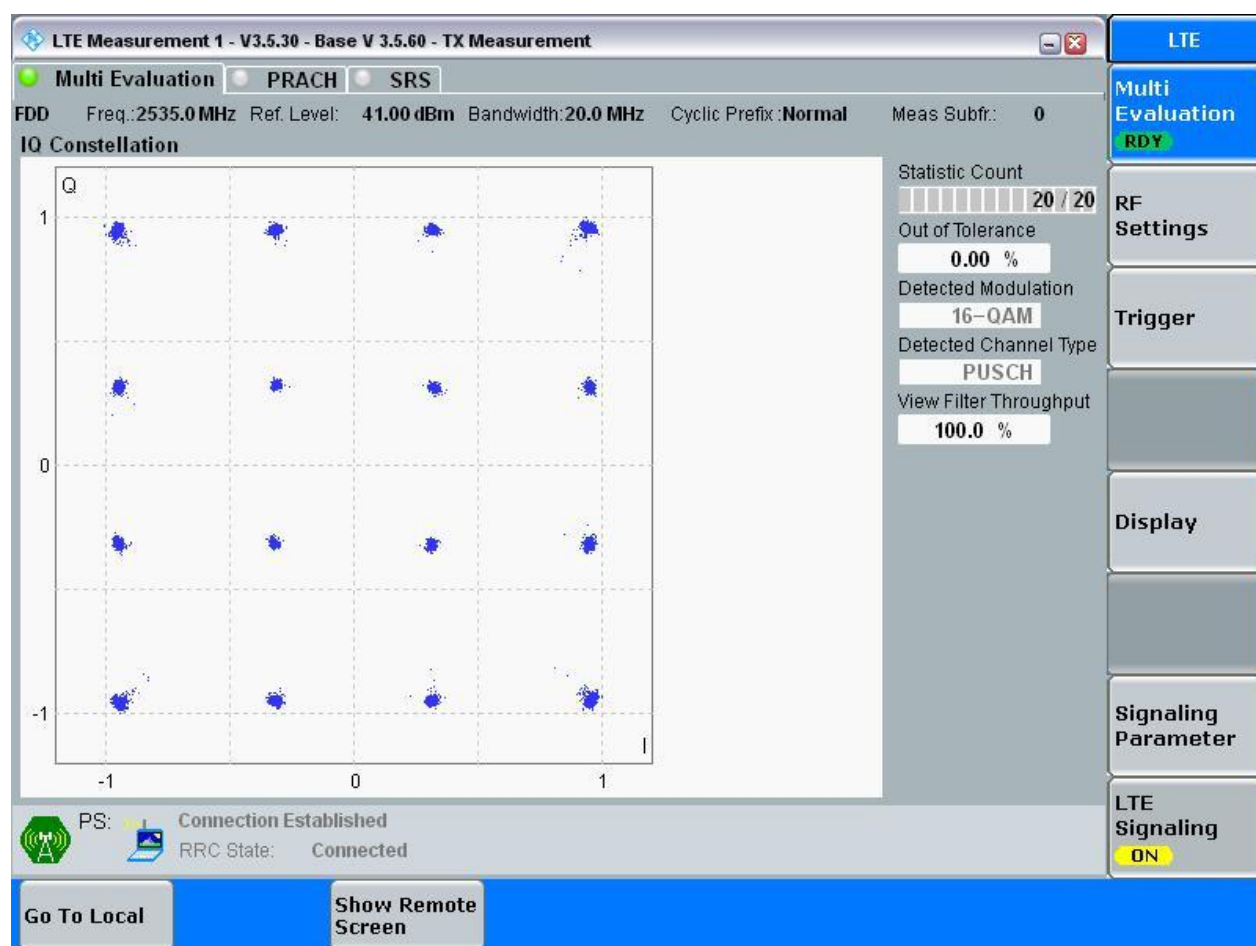
3.1.1.2.3.1.1 Test RB = RB75#0



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

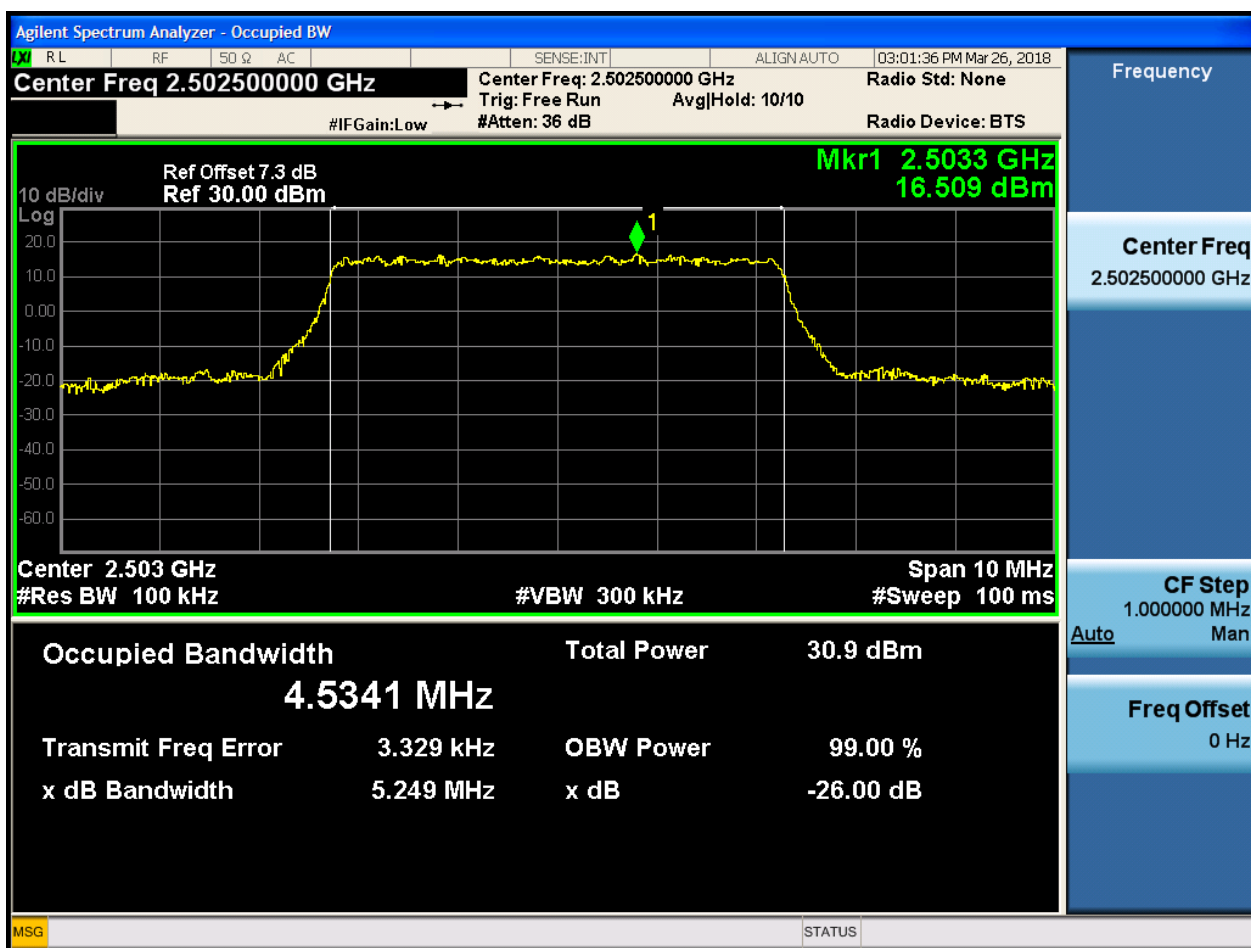
4.1.1 Test Band = BAND7

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

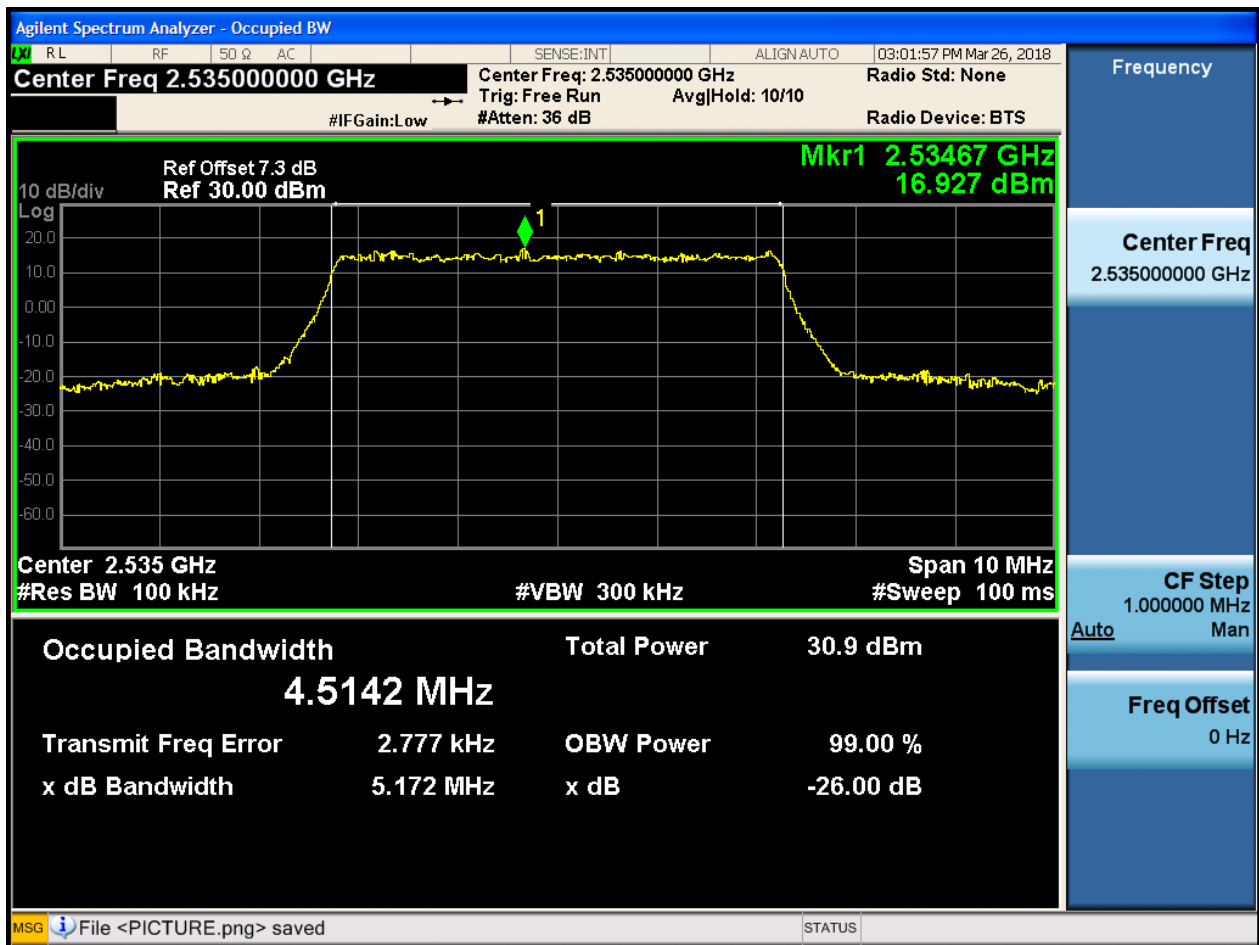
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

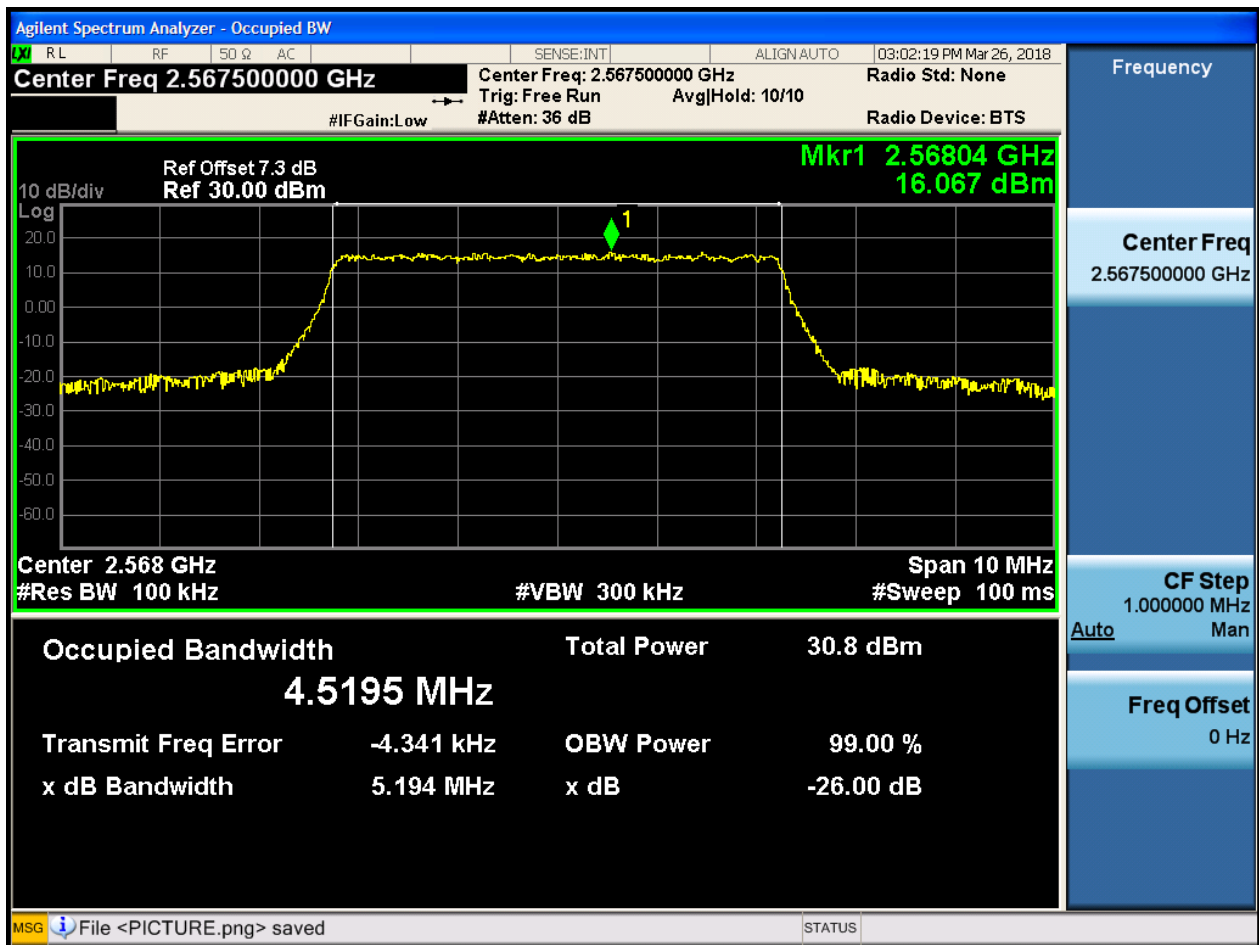
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

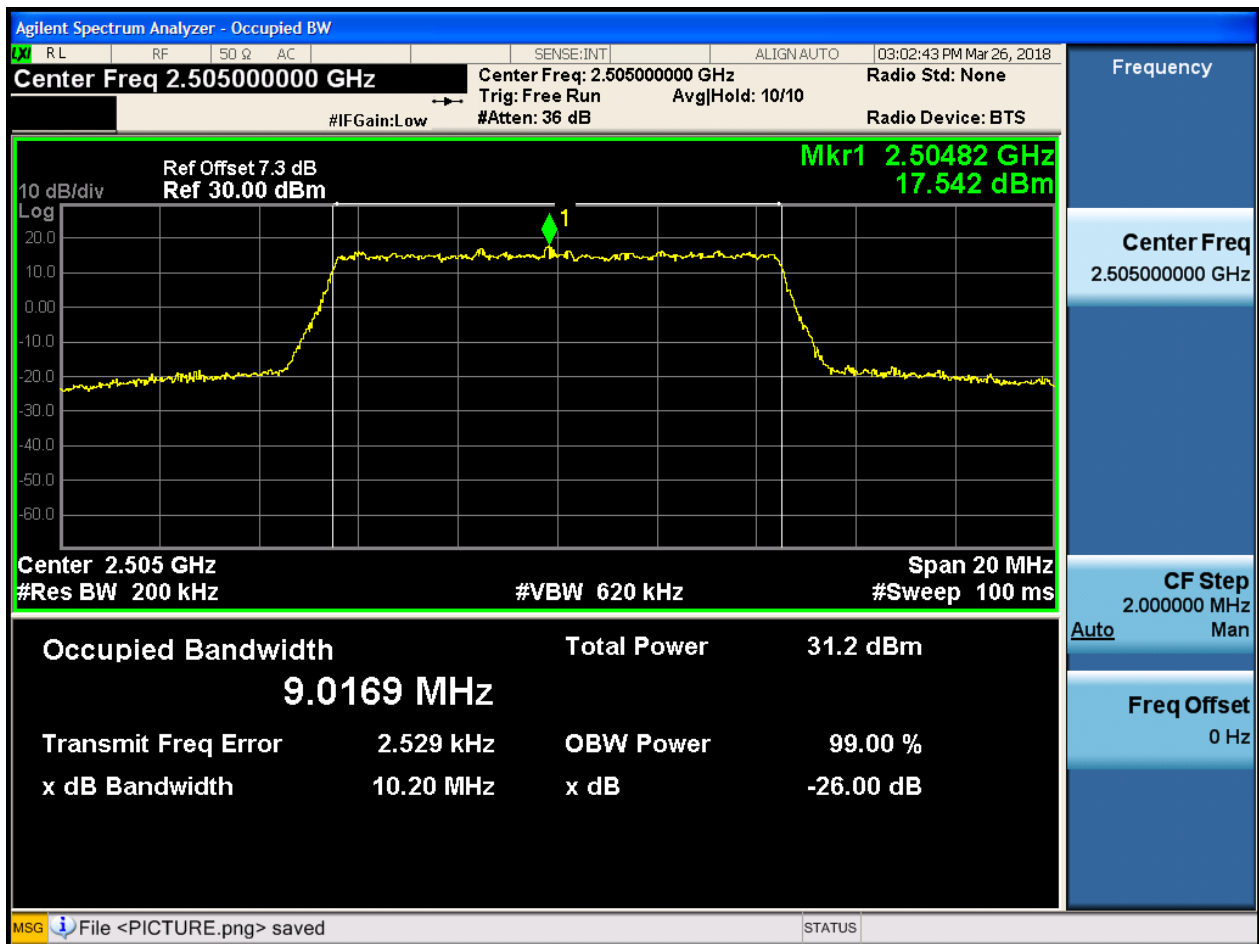




4.1.1.1.2 Test Bandwidth = 10

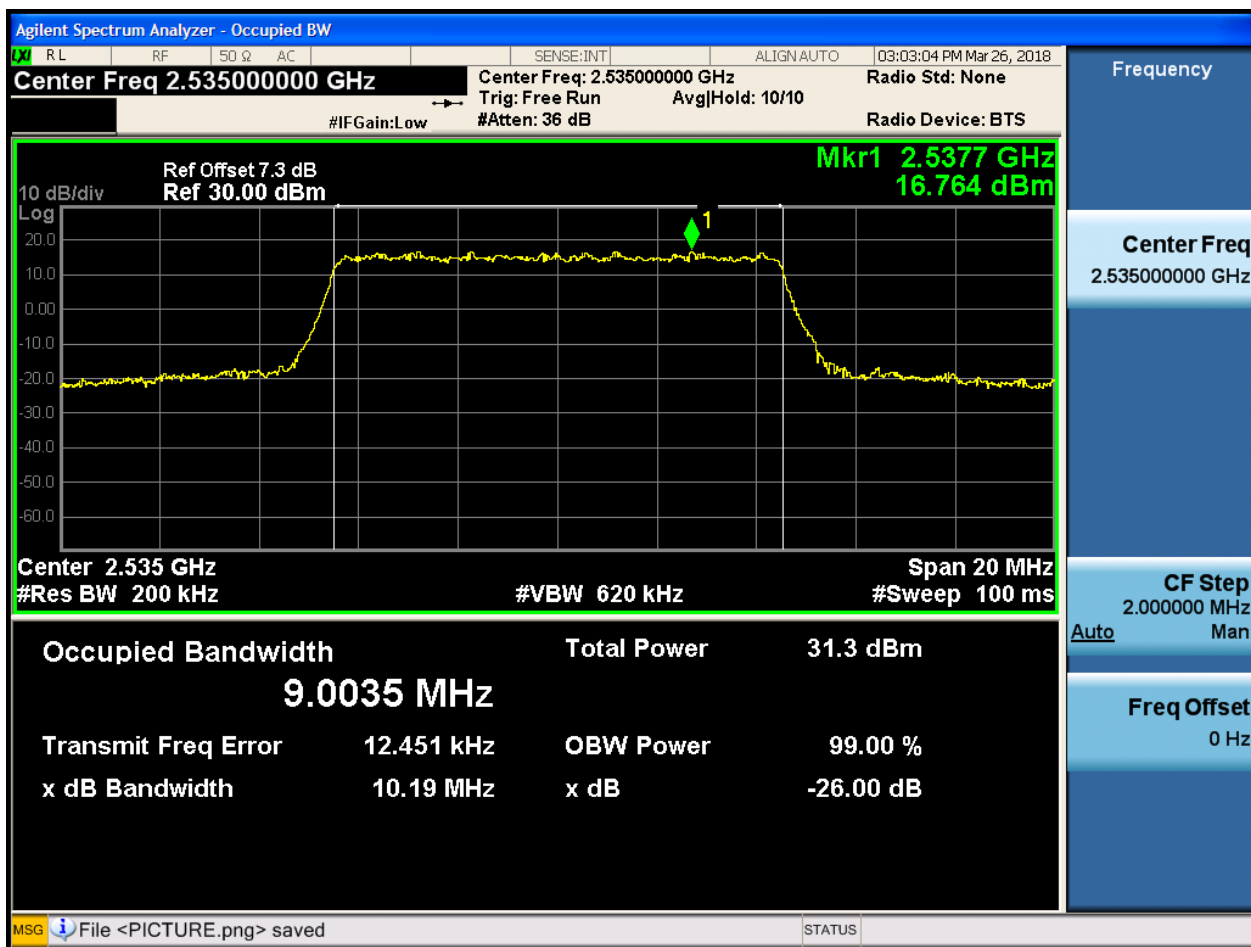
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



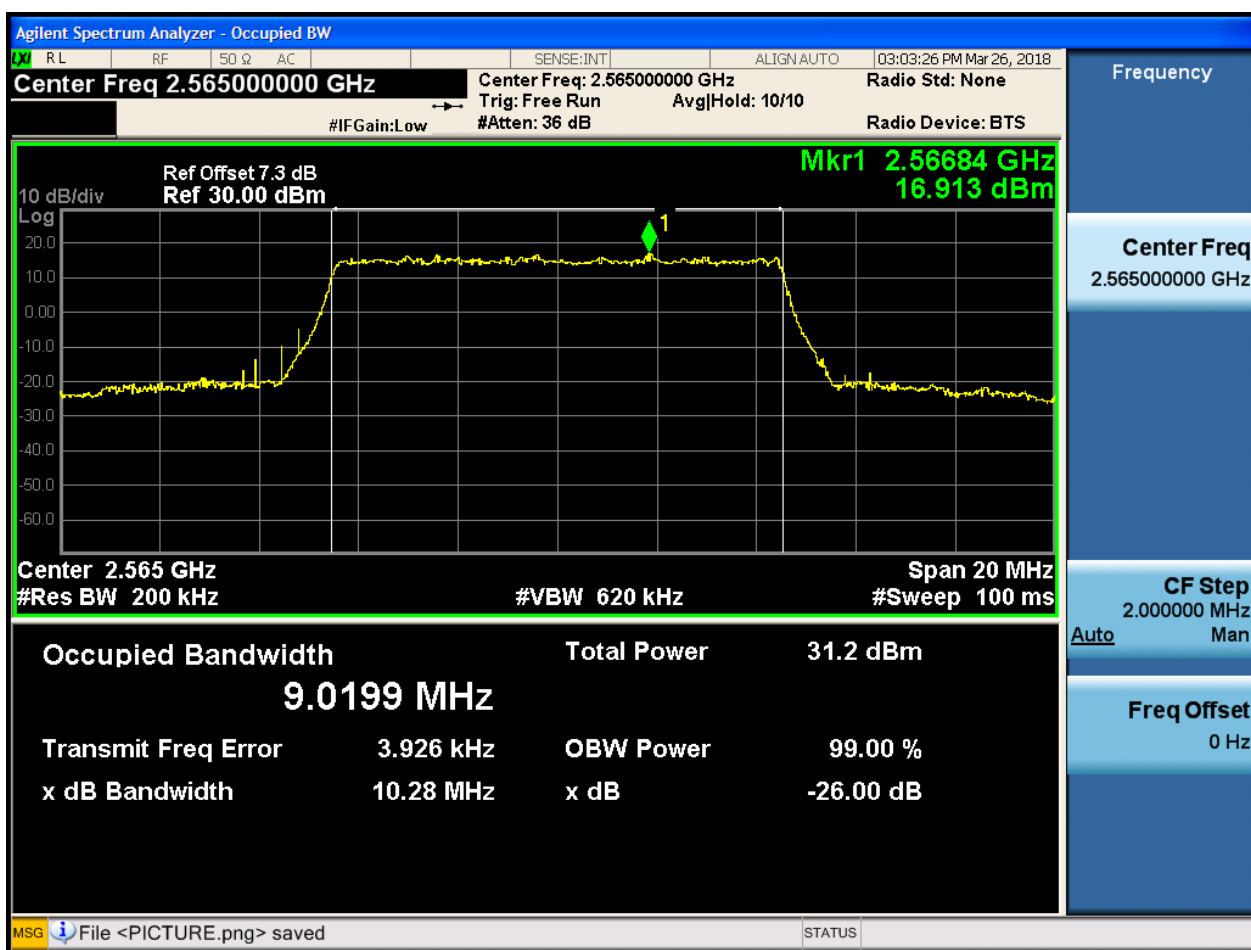
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

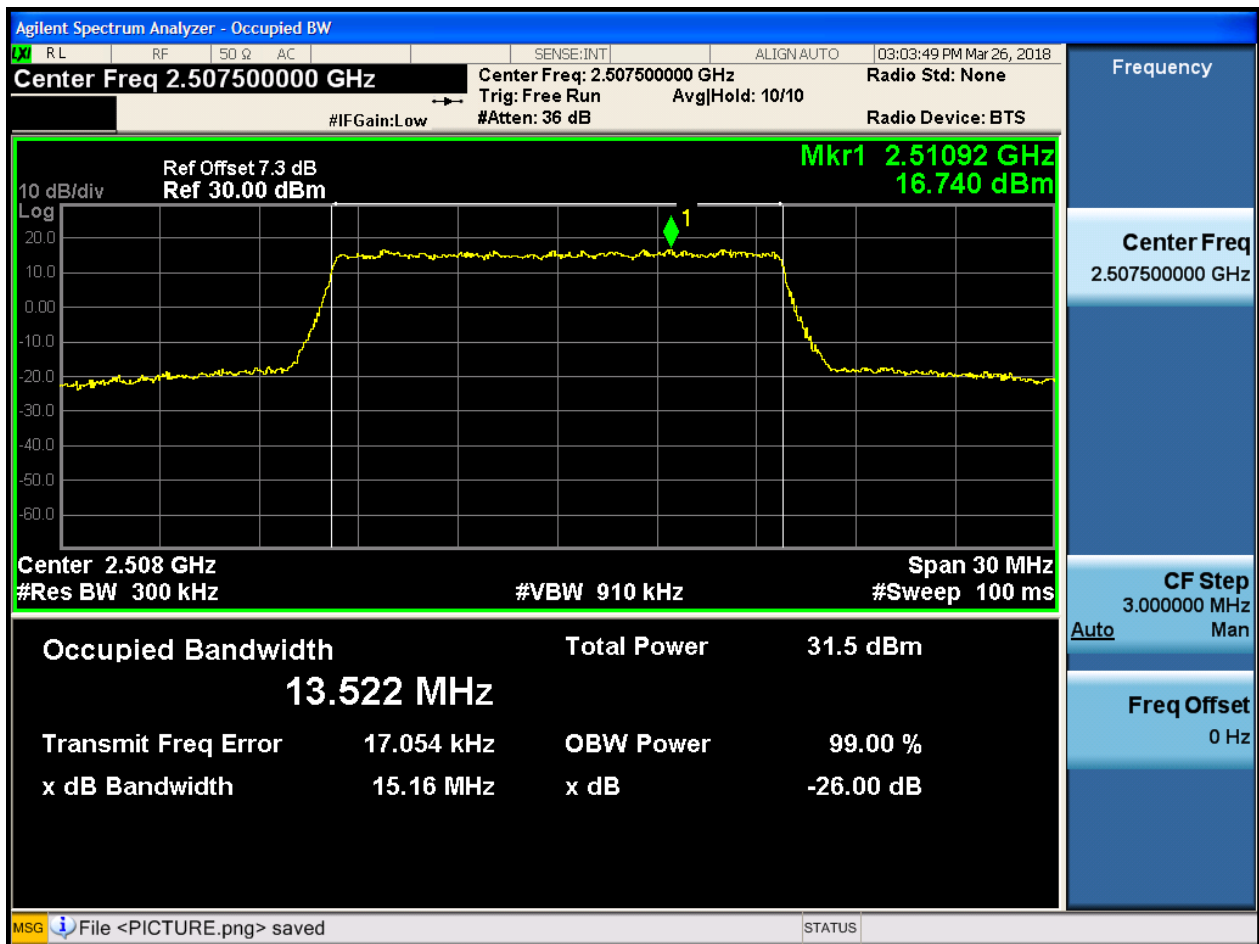
4.1.1.1.2.3.1 Test RB = RB50#0



4.1.1.1.3 Test Bandwidth = 15

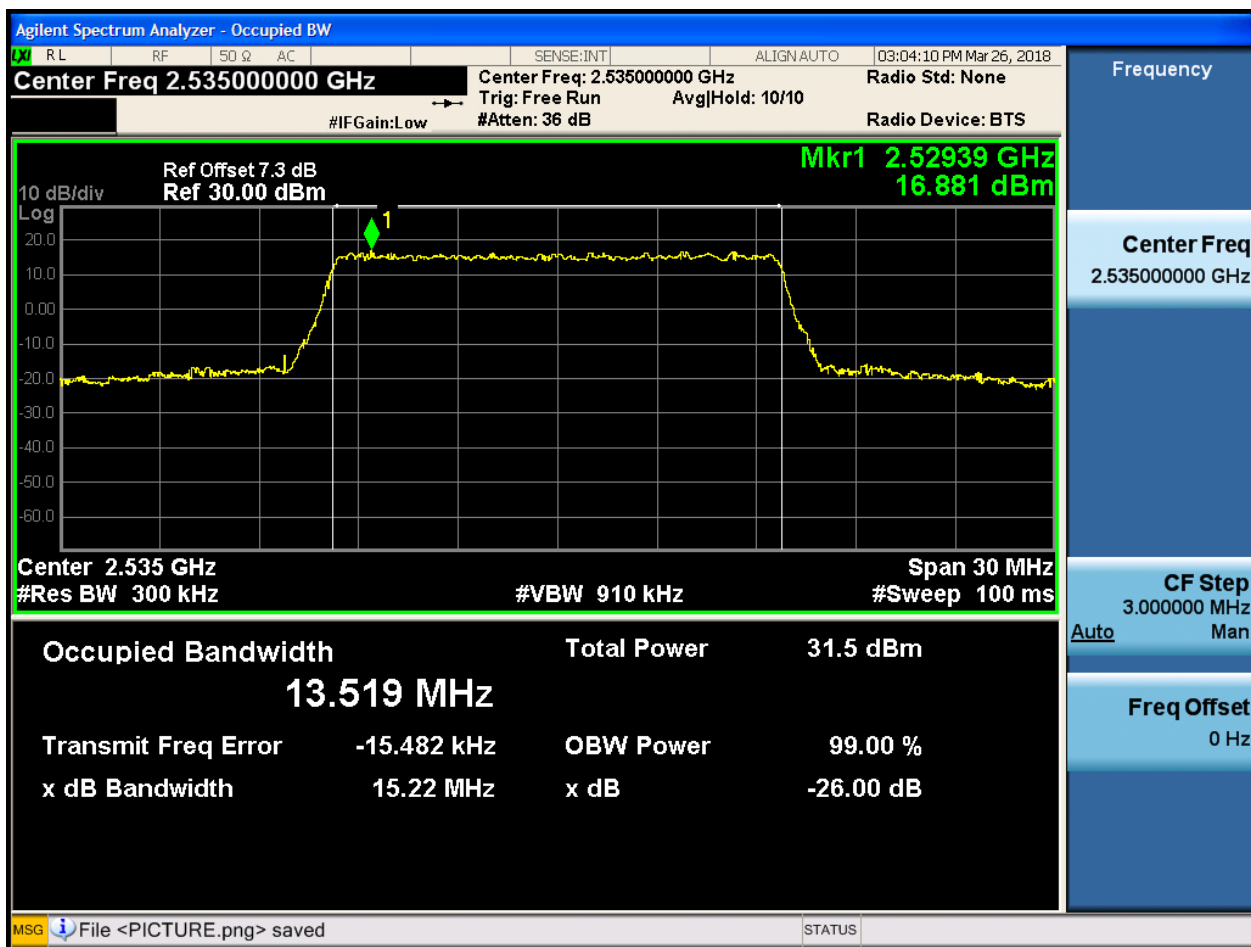
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1.3.2 Test Channel = MCH

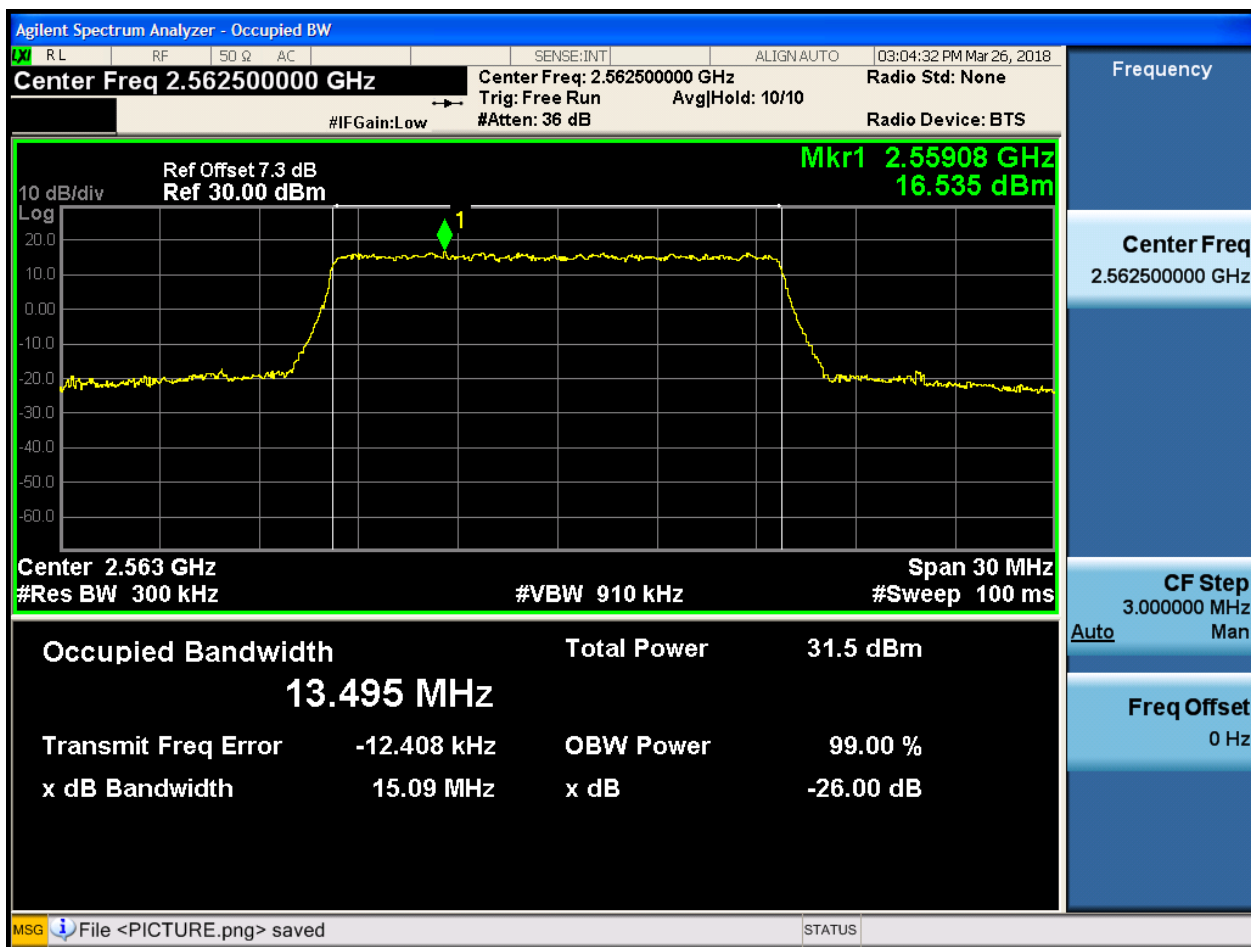
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

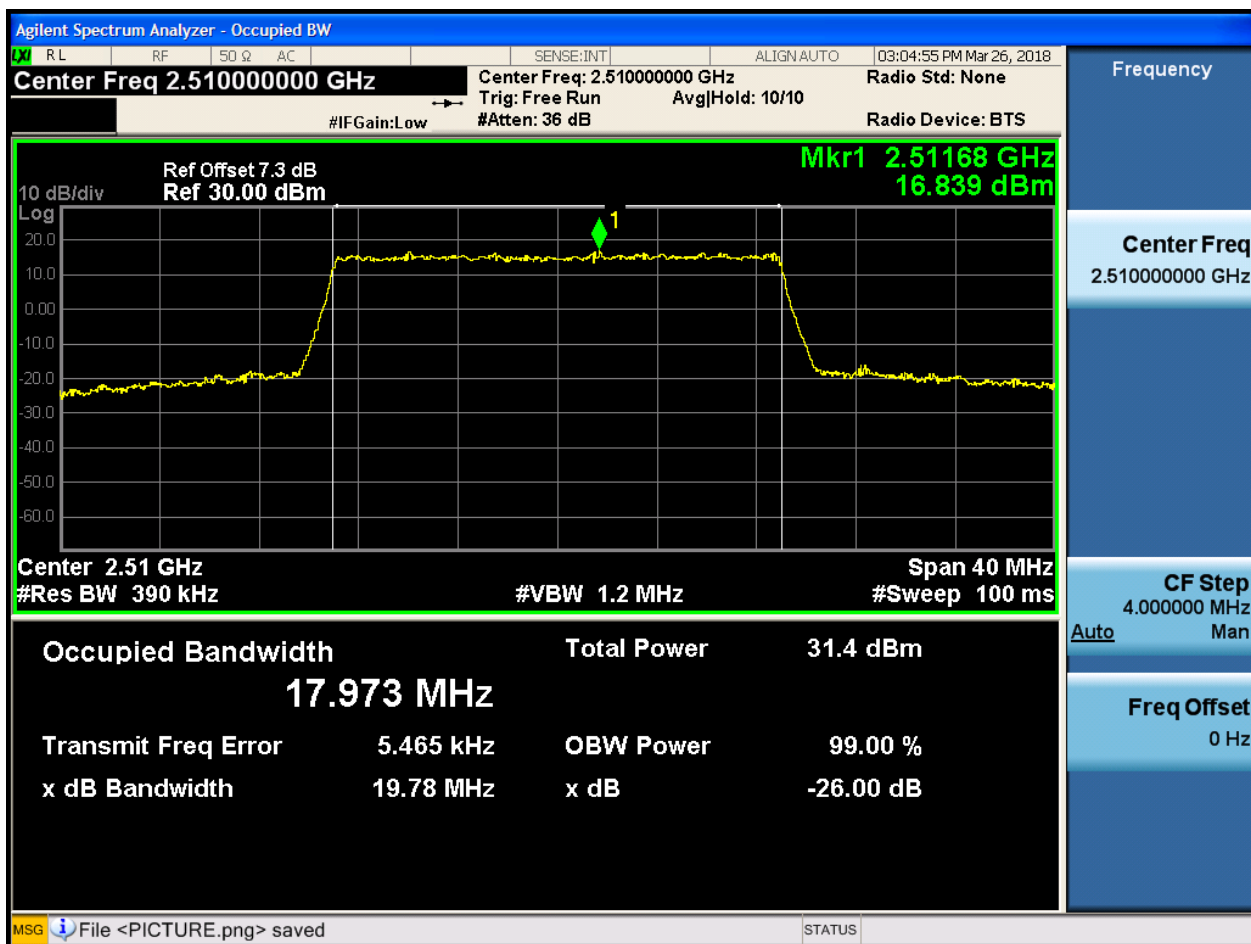
4.1.1.1.3.3.1 Test RB = RB75#0



4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

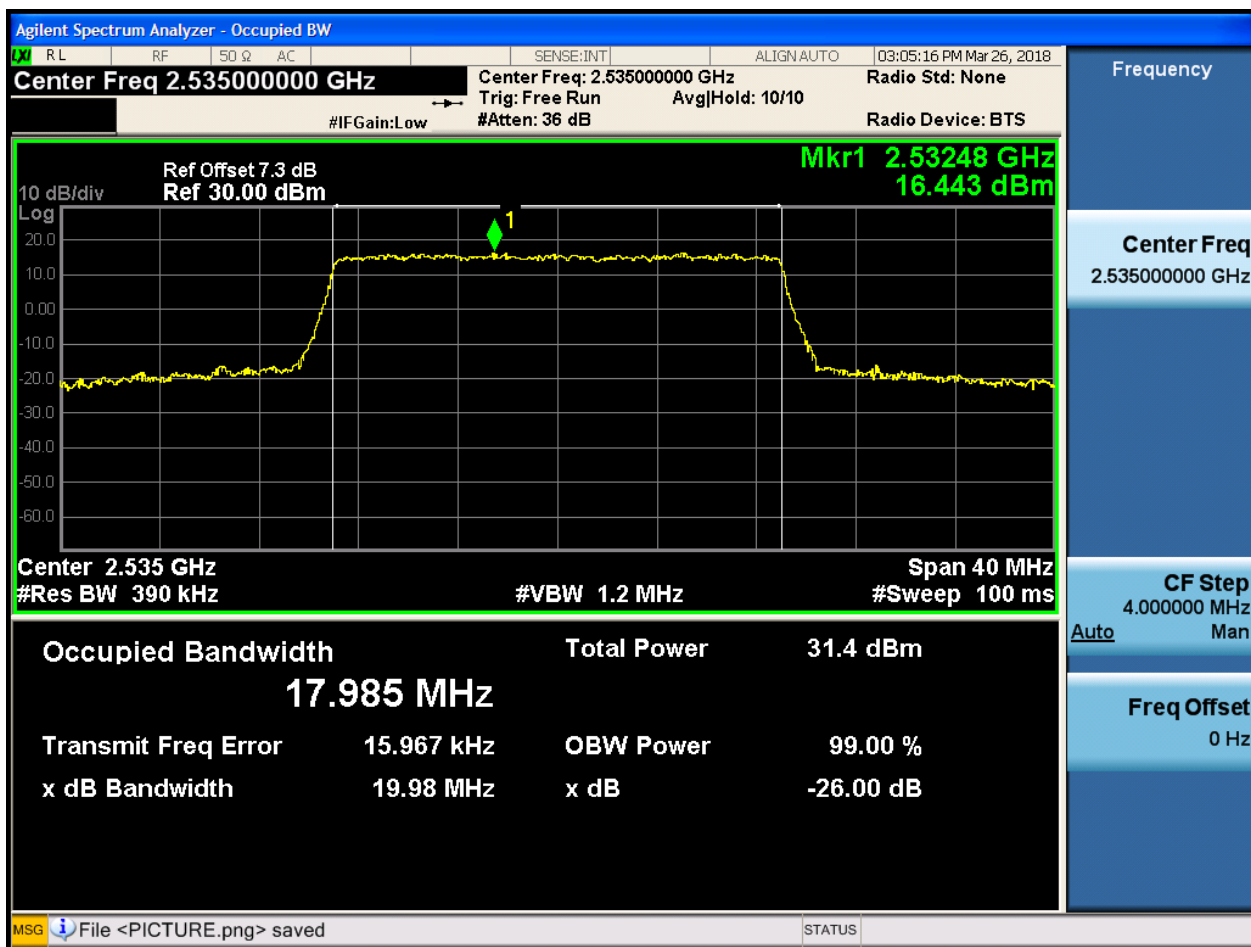
4.1.1.1.4.1.1 Test RB = RB100#0





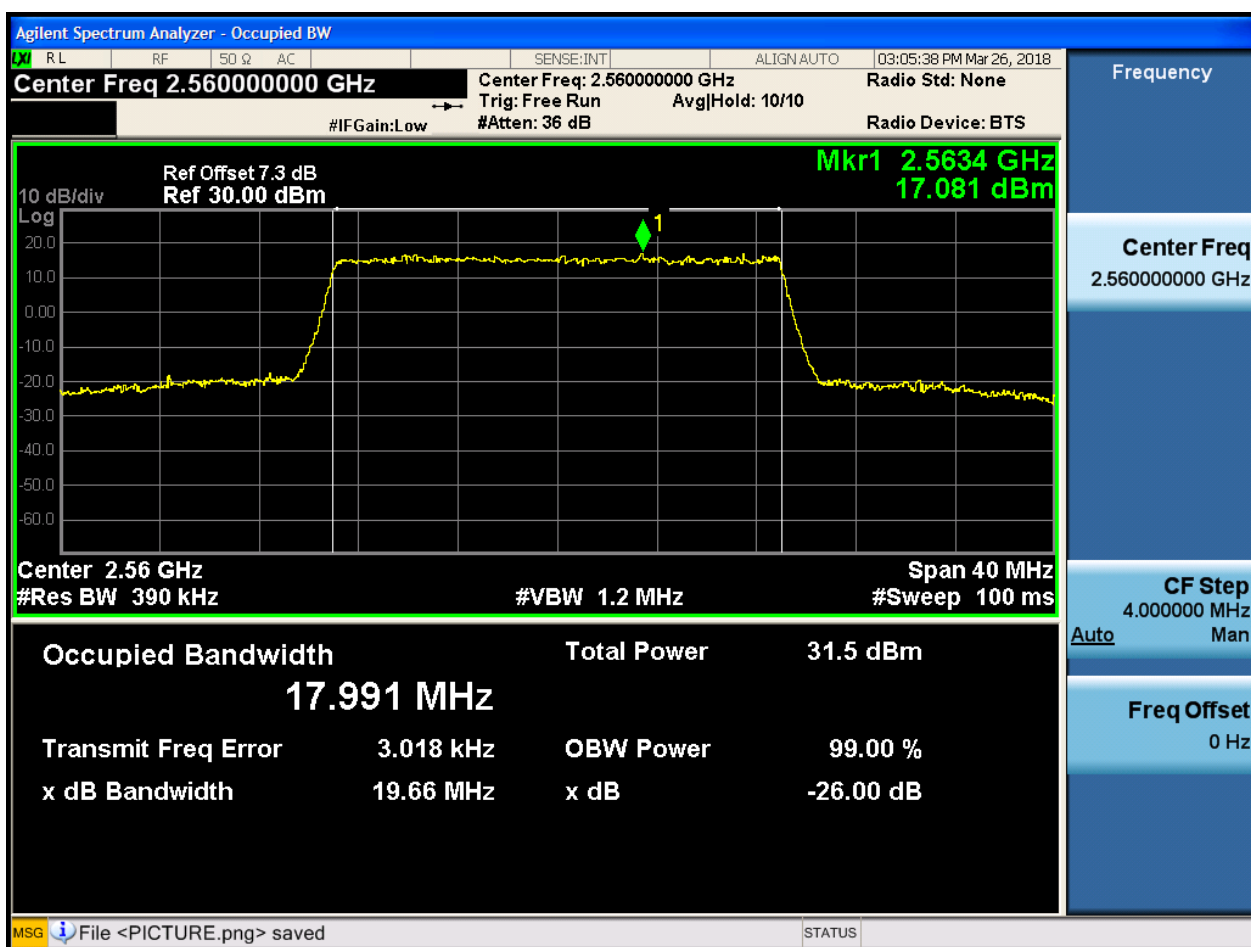
4.1.1.1.4.2 Test Channel = MCH

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

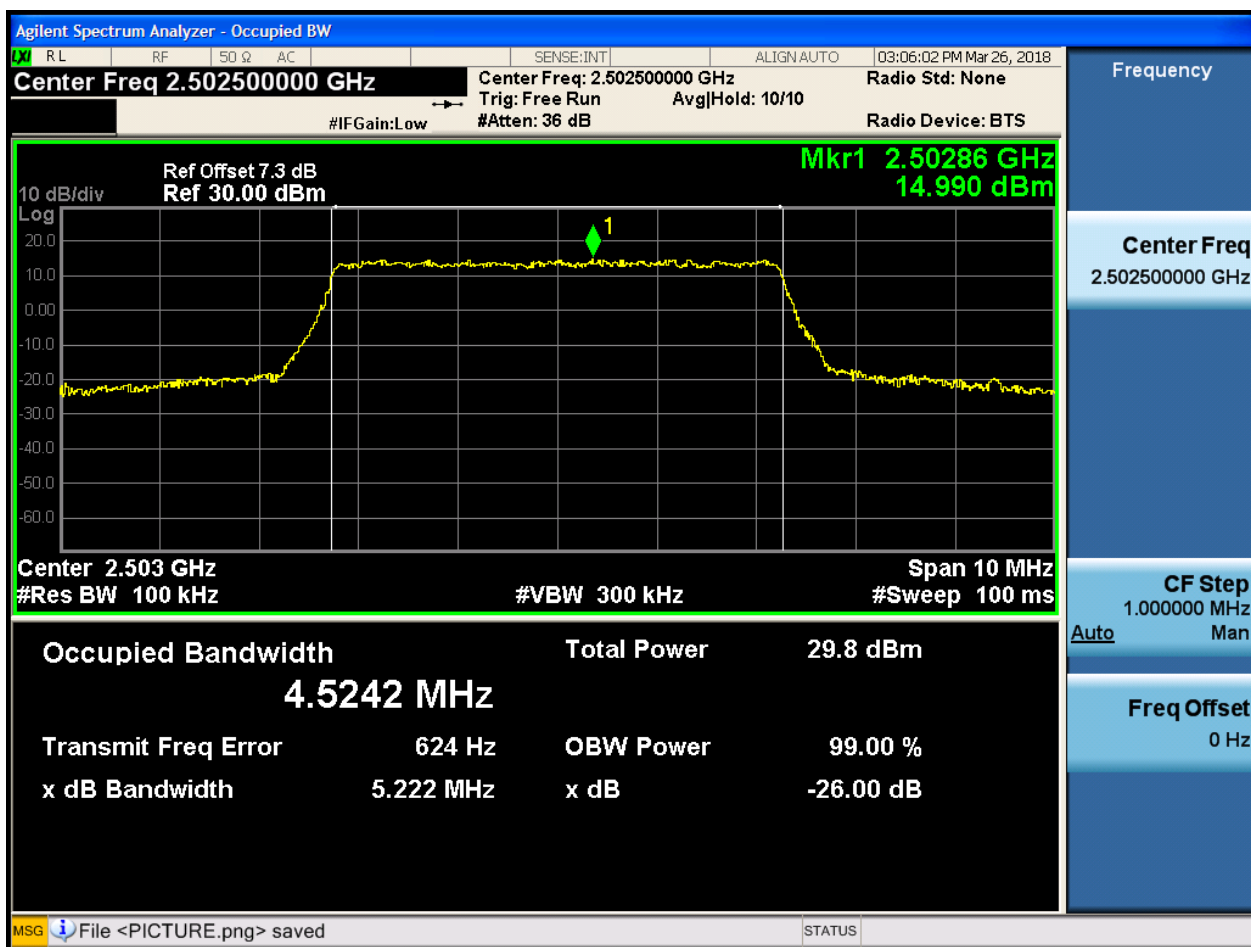


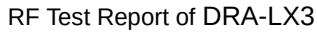
4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

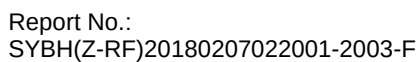
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0





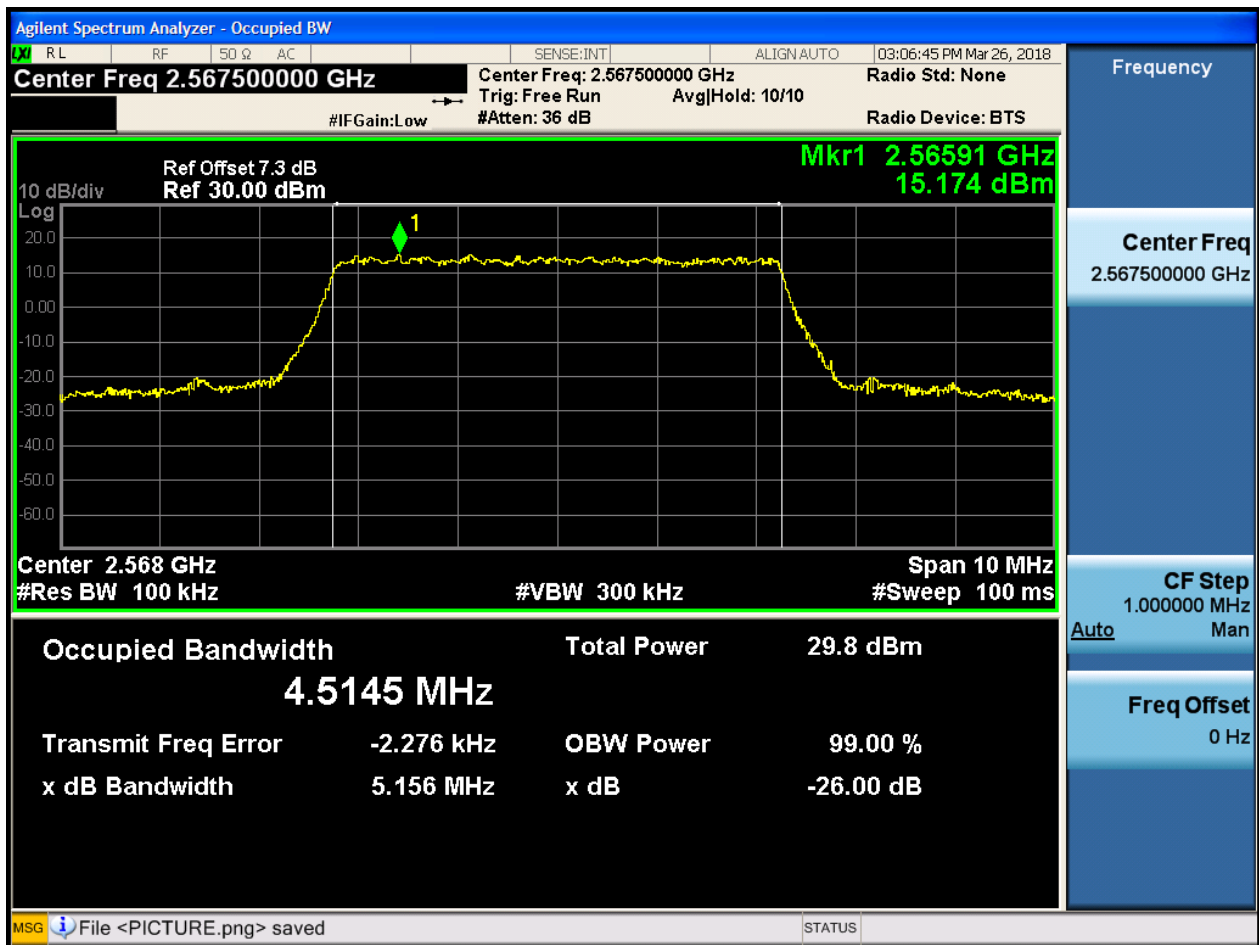
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

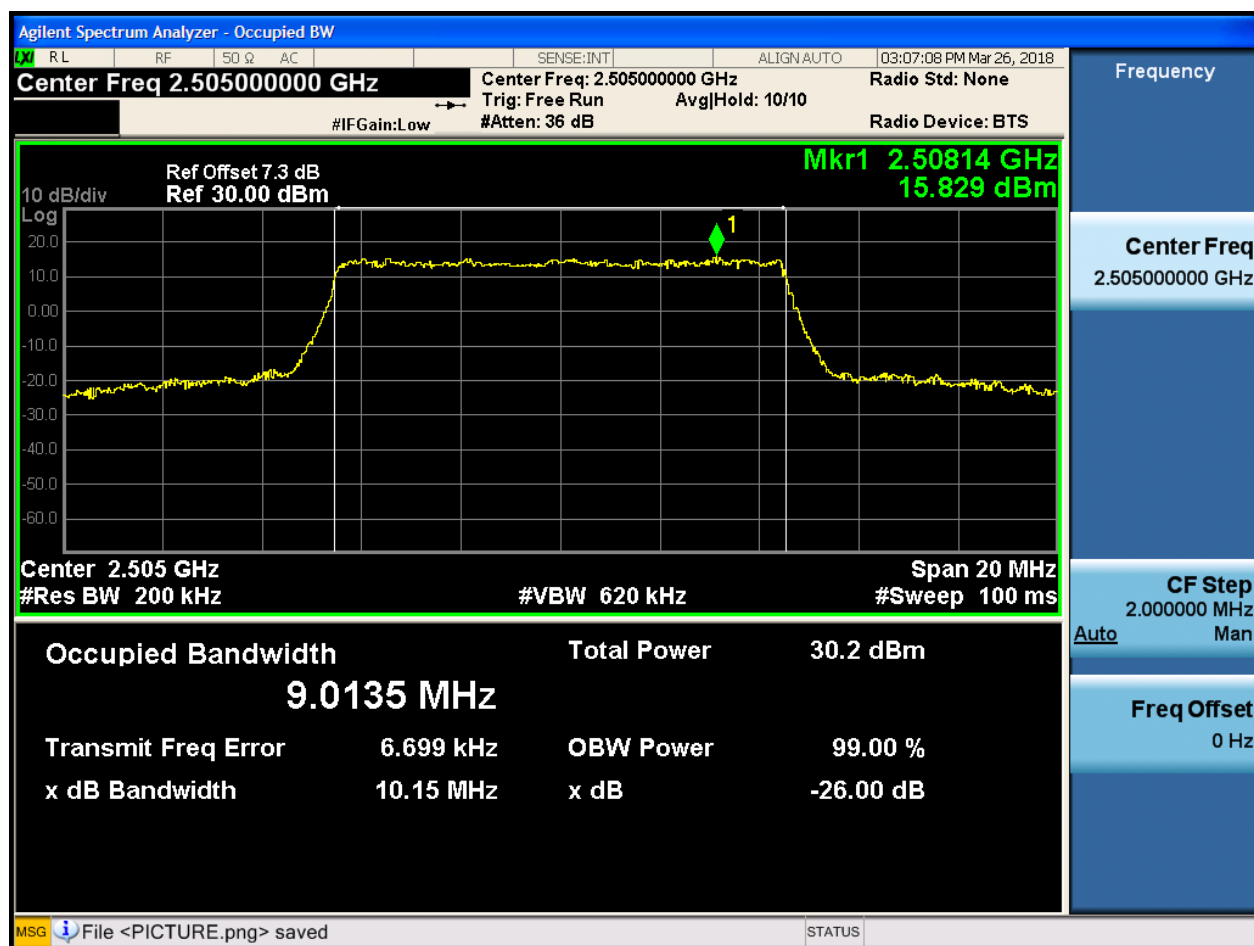
4.1.1.2.1.3.1 Test RB = RB25#0



4.1.1.2.2 Test Bandwidth = 10

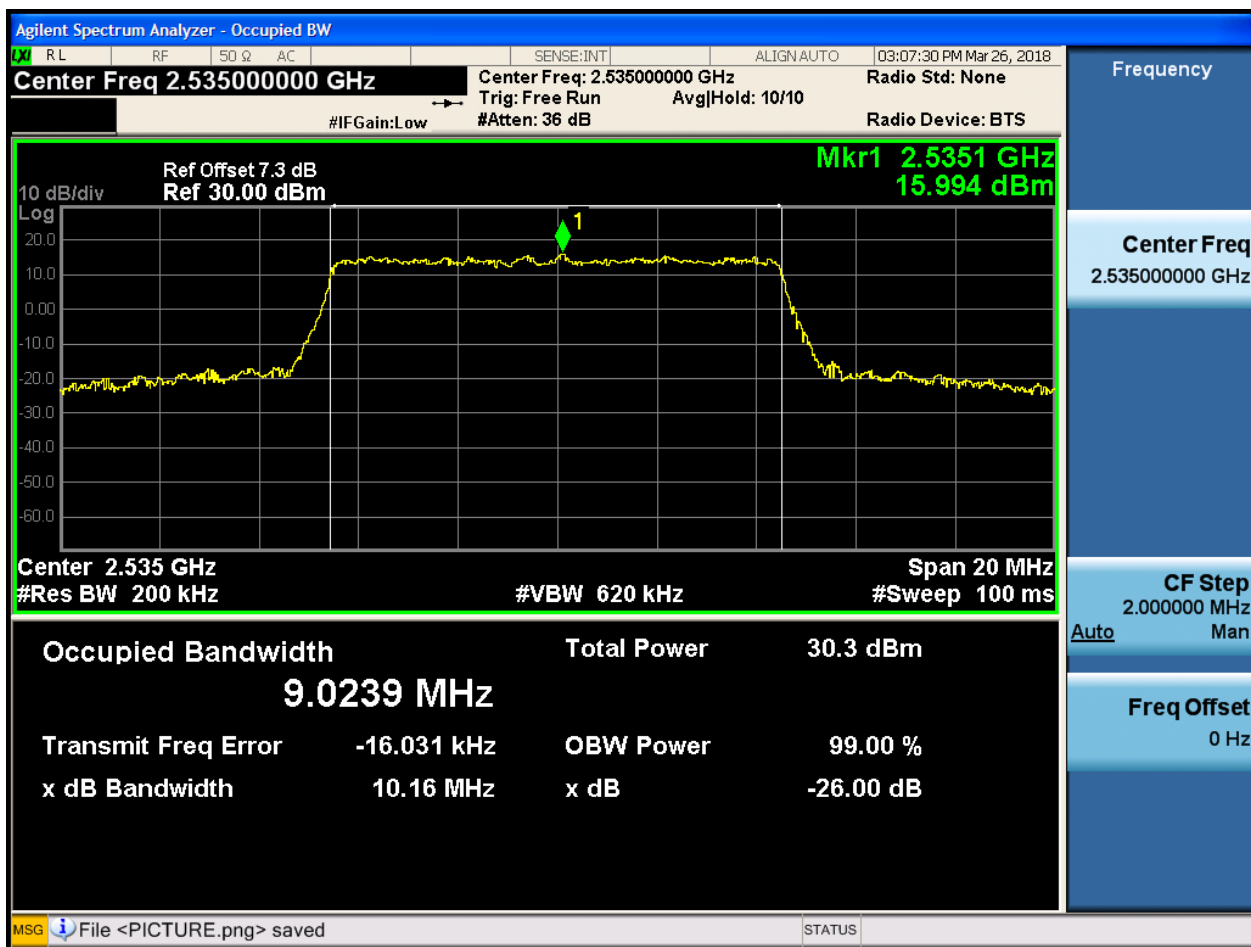
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB50#0



4.1.1.2.2.2 Test Channel = MCH

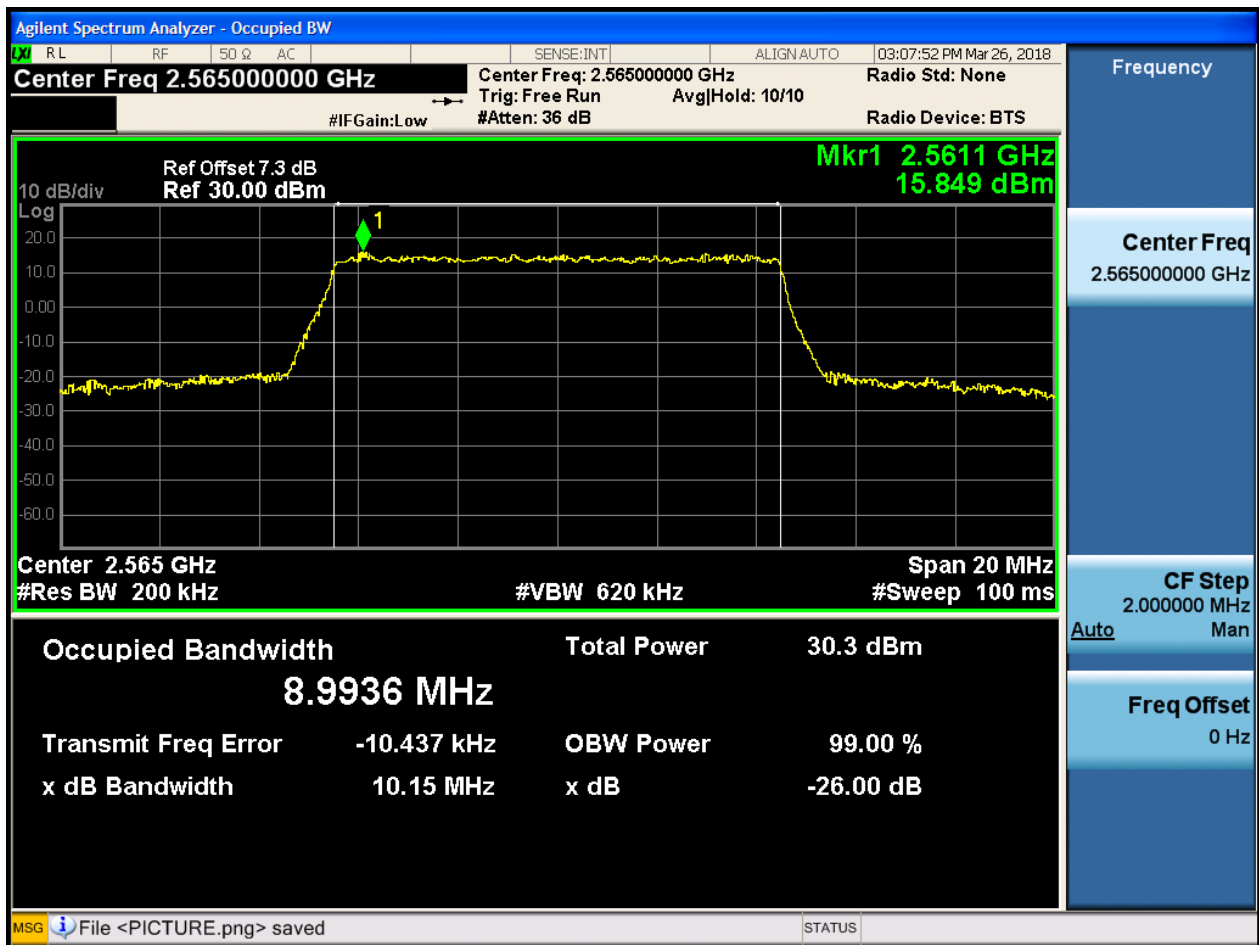
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

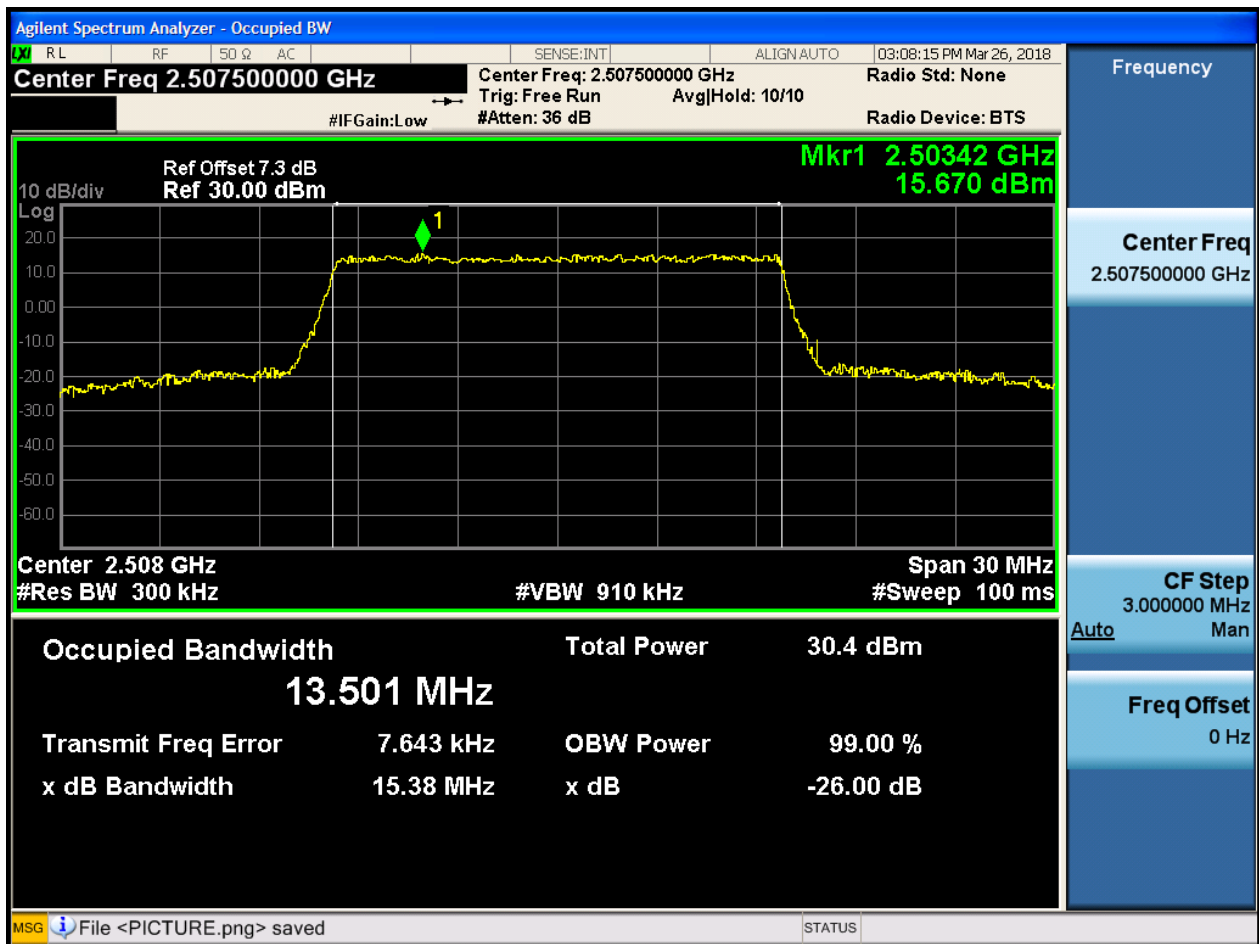




4.1.1.2.3 Test Bandwidth = 15

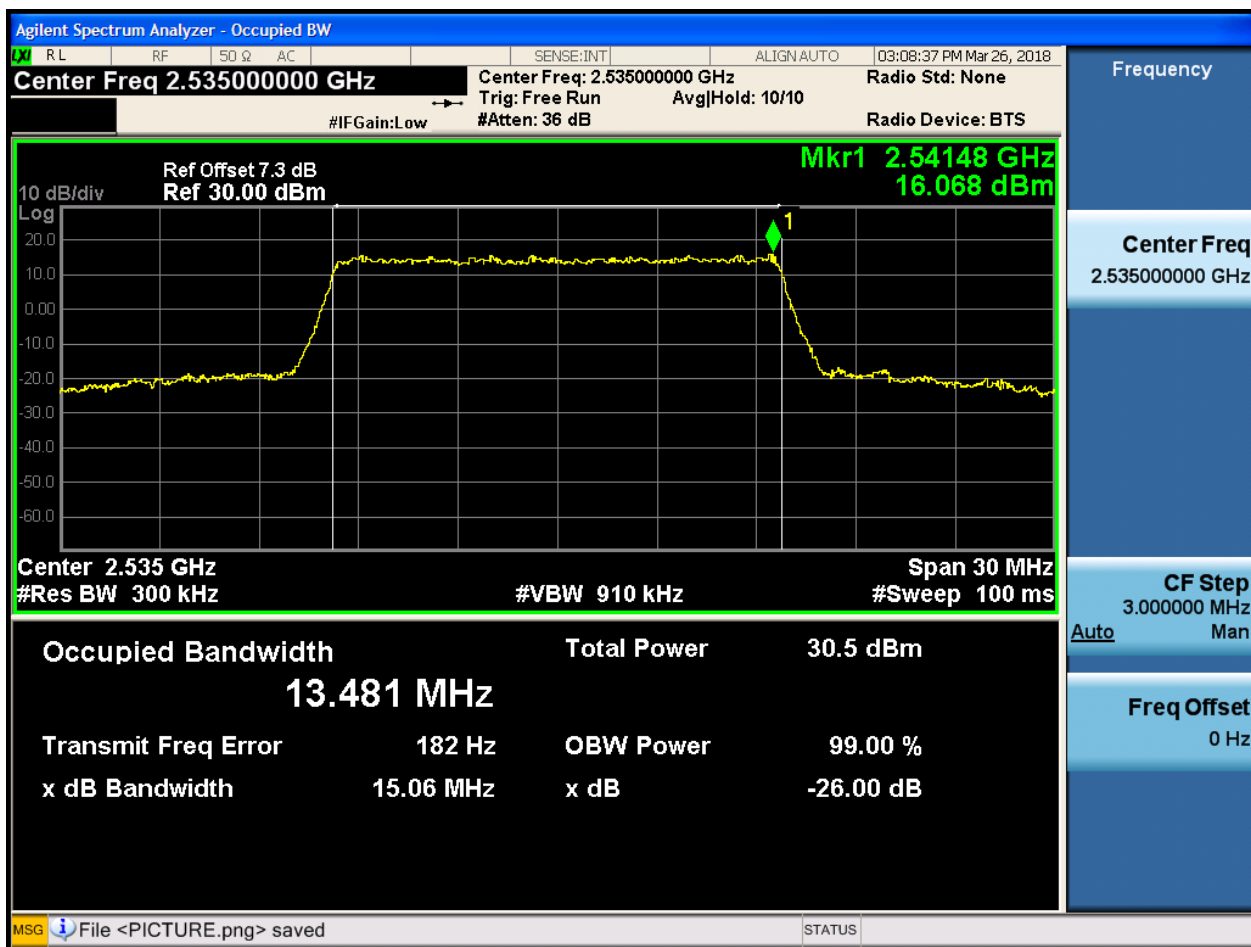
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



4.1.1.2.3.2 Test Channel = MCH

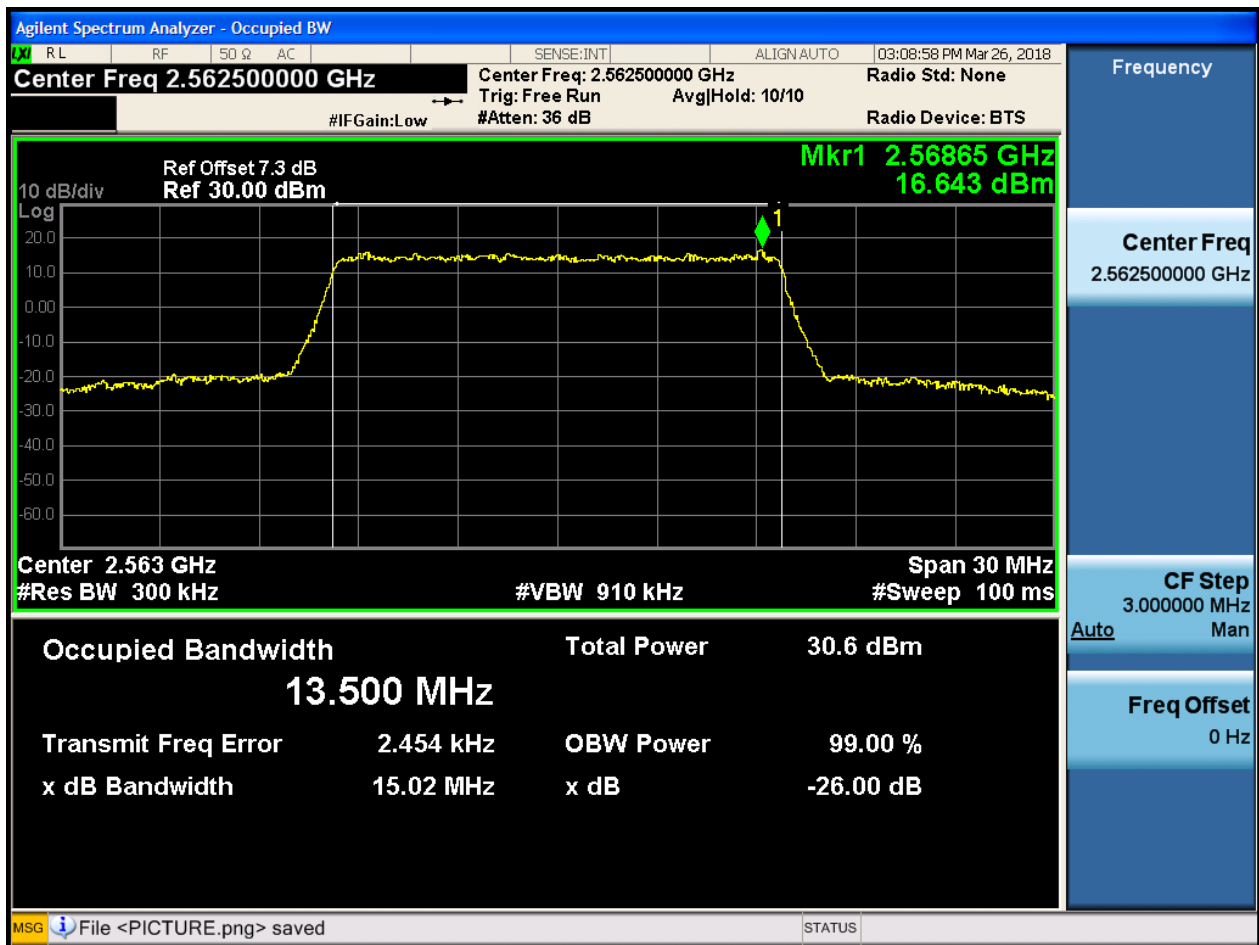
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

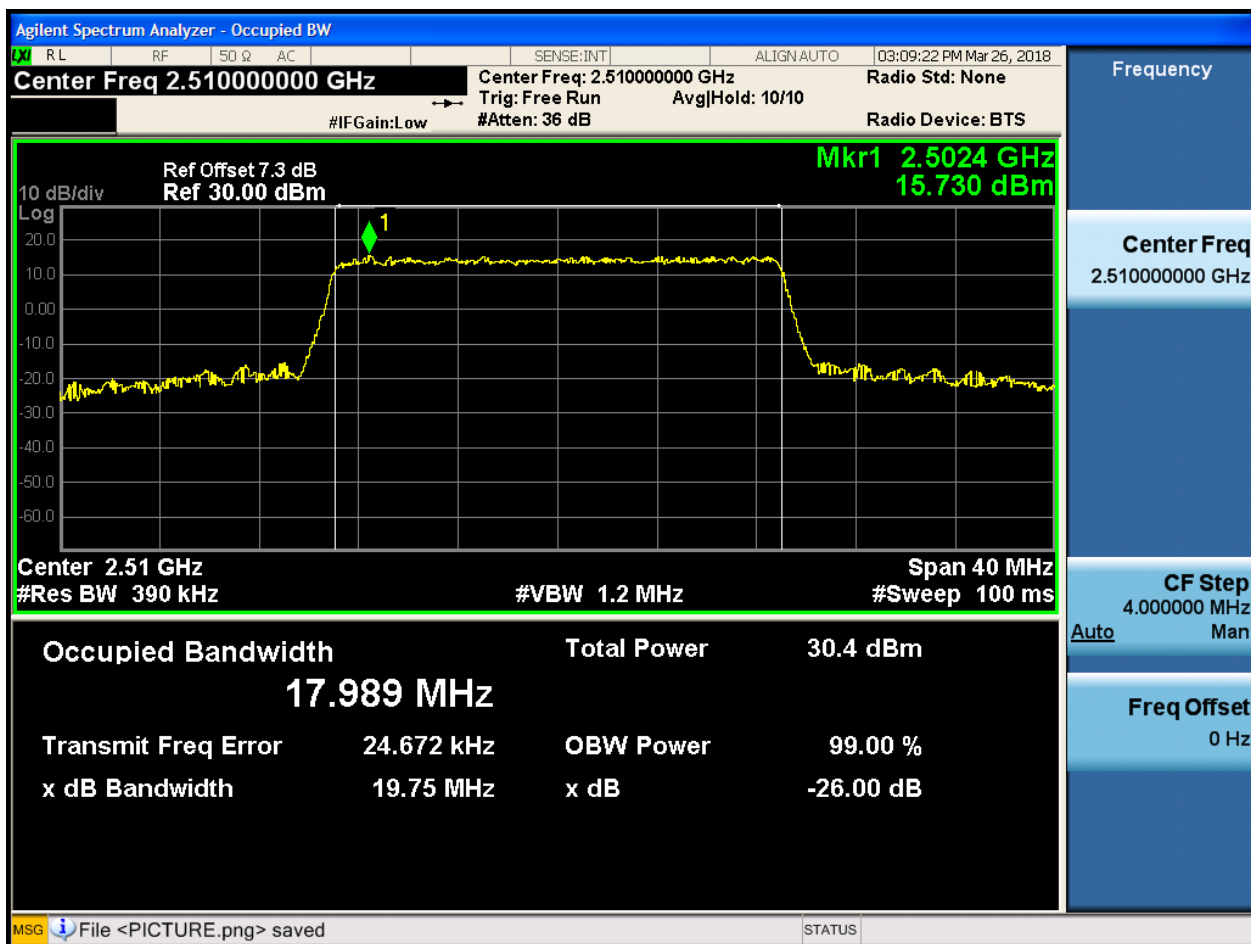




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

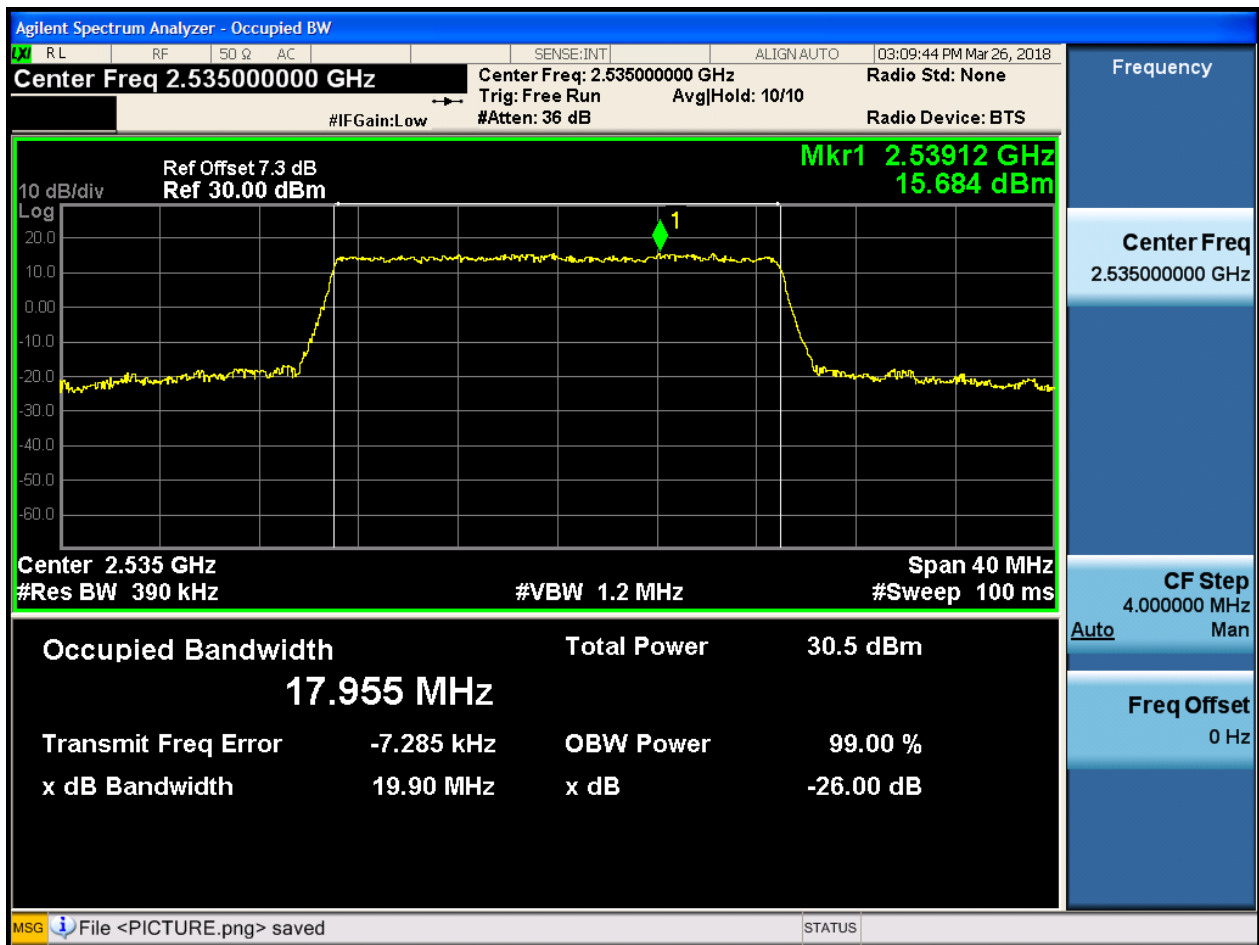
4.1.1.2.4.1.1 Test RB = RB100#0





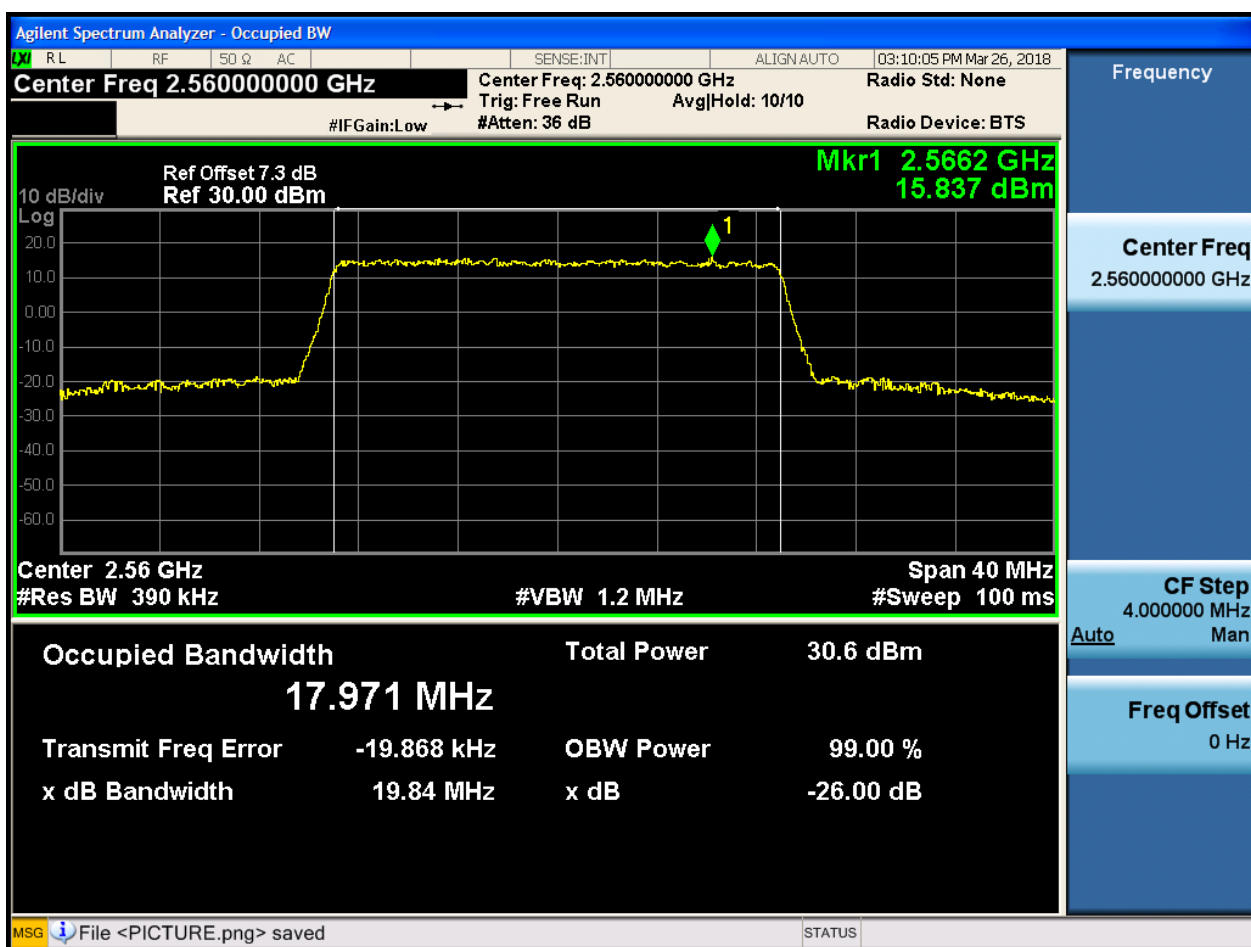
4.1.1.2.4.2 Test Channel = MCH

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

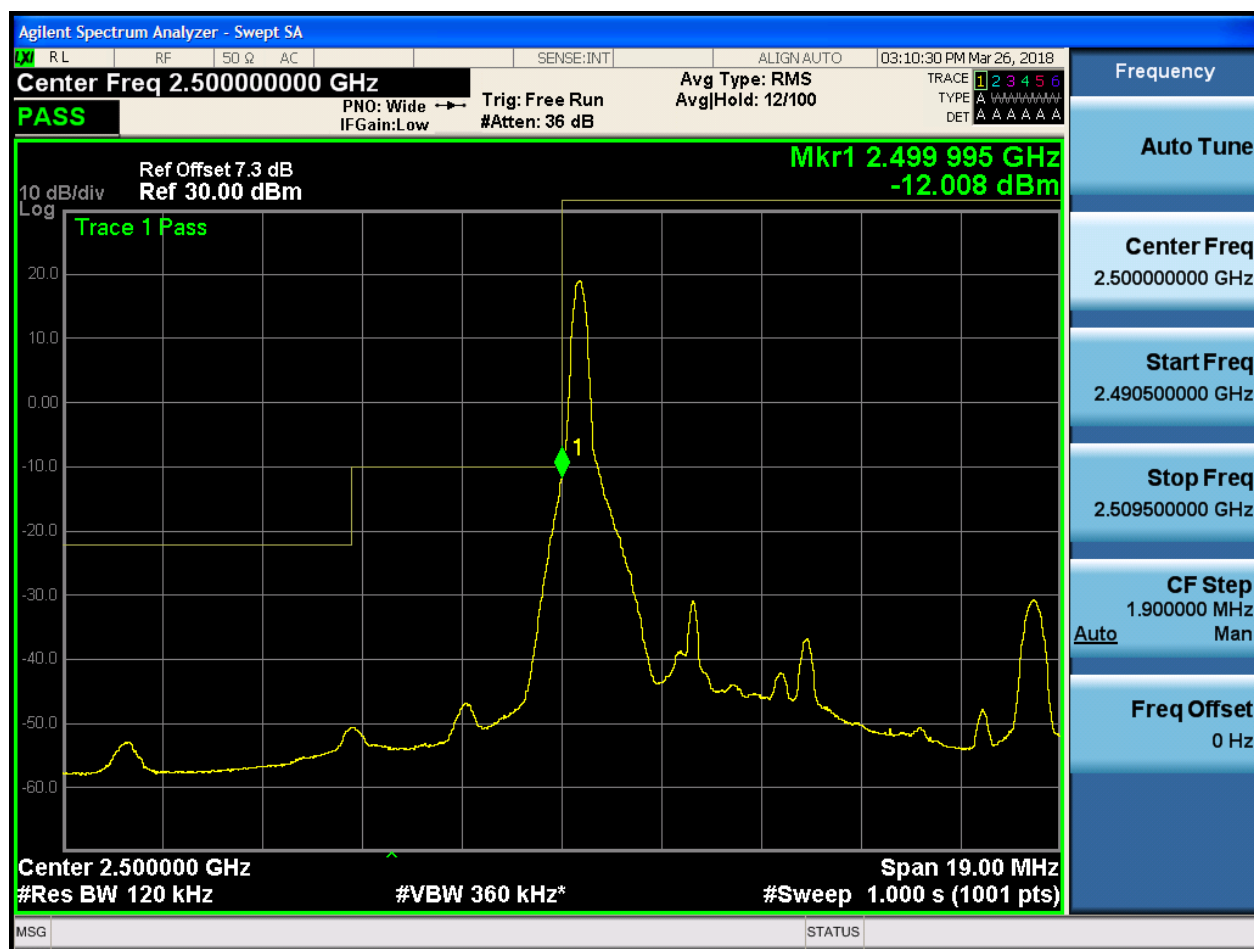
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

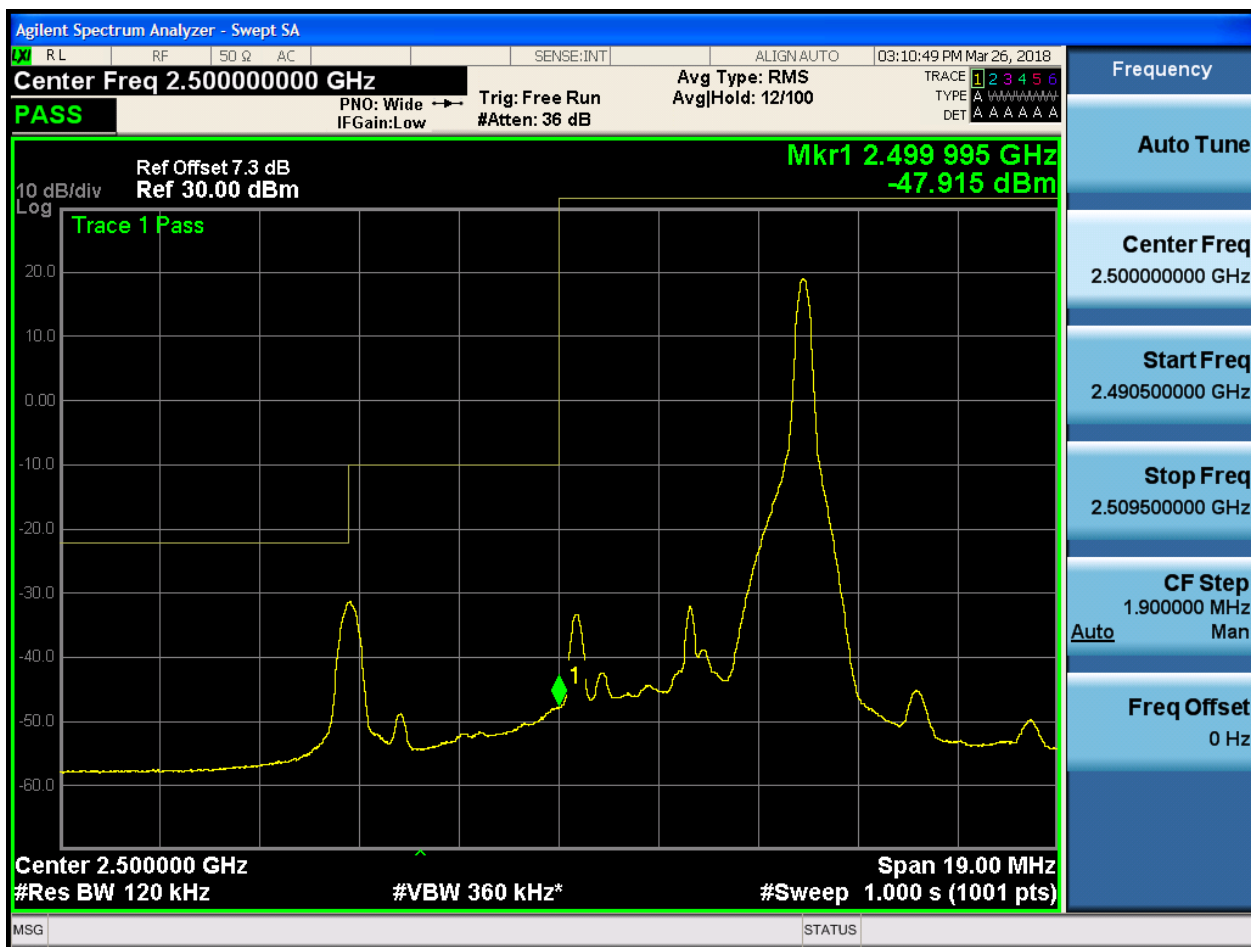
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



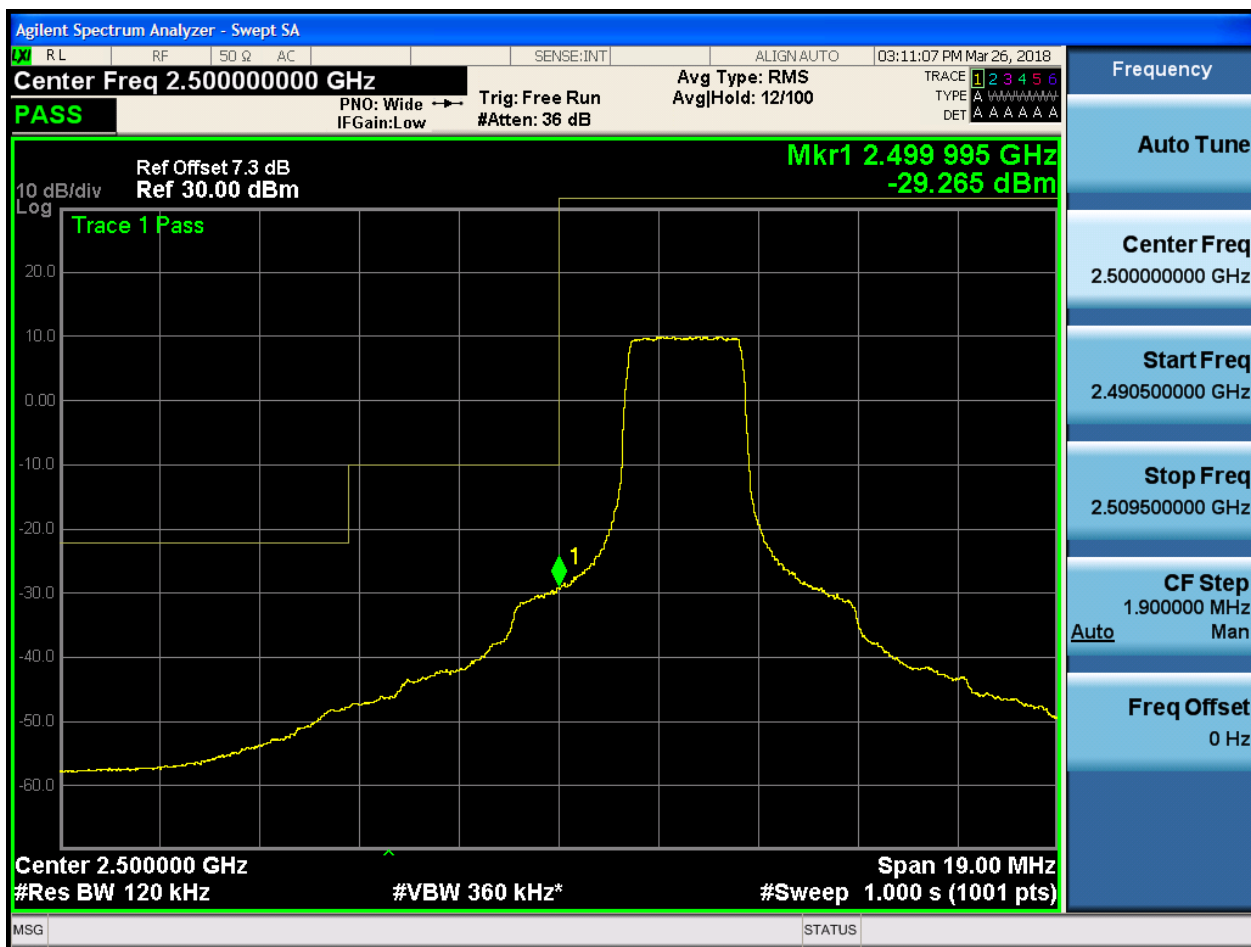


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6





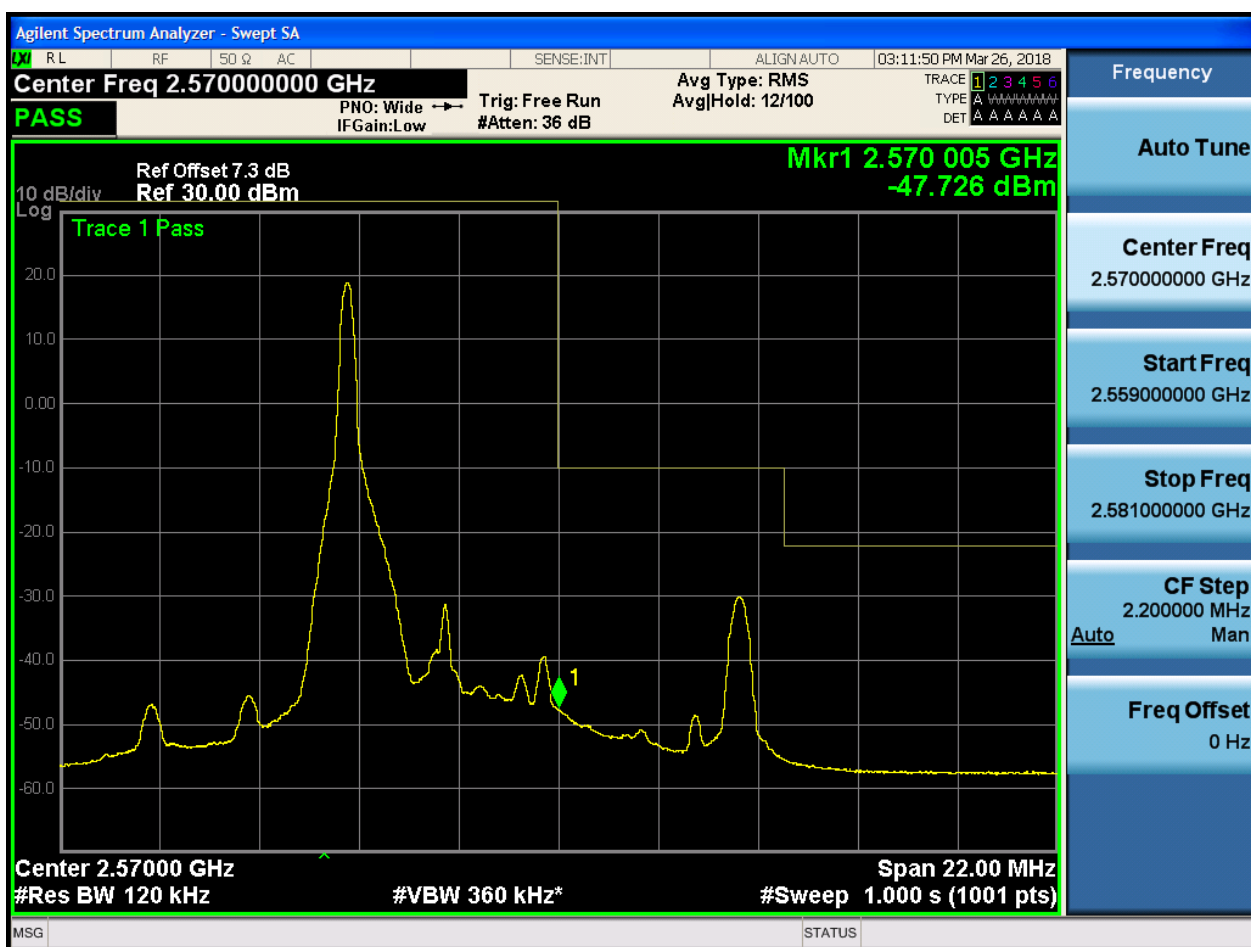
5.1.1.1.1.4 Test RB = RB25#0





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

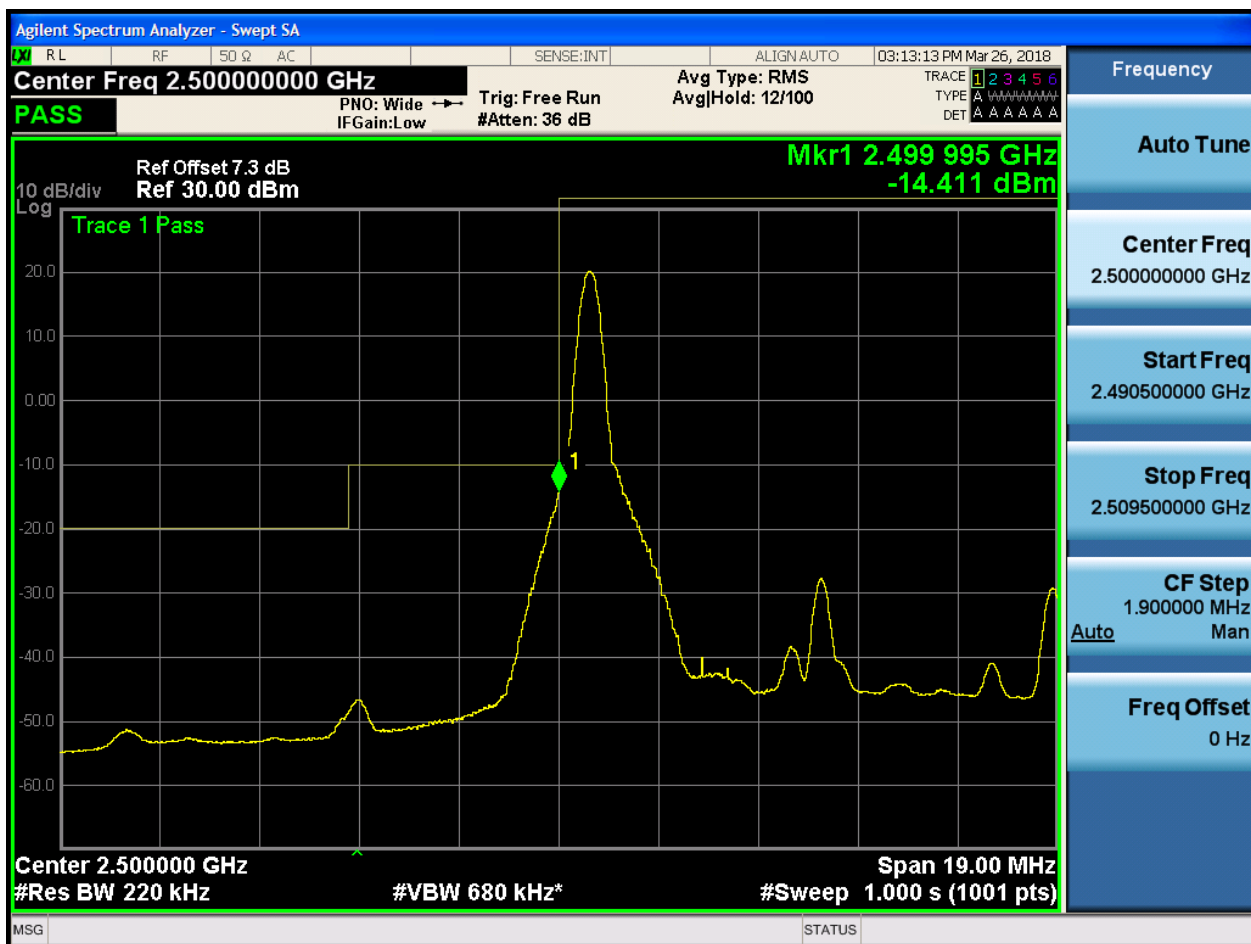




5.1.1.1.2 Test Bandwidth = 10

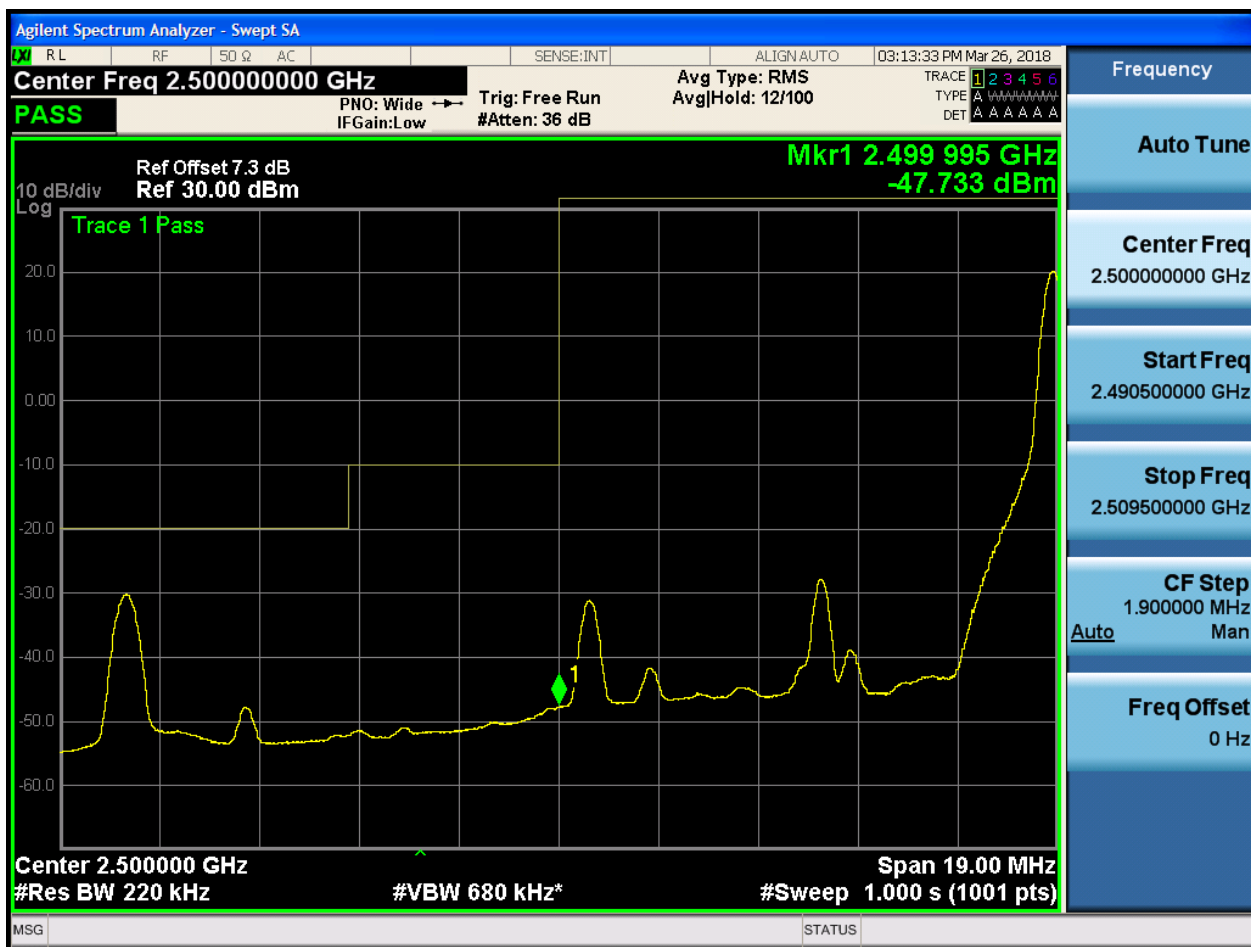
5.1.1.1.2.1 Test Channel = LCH

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



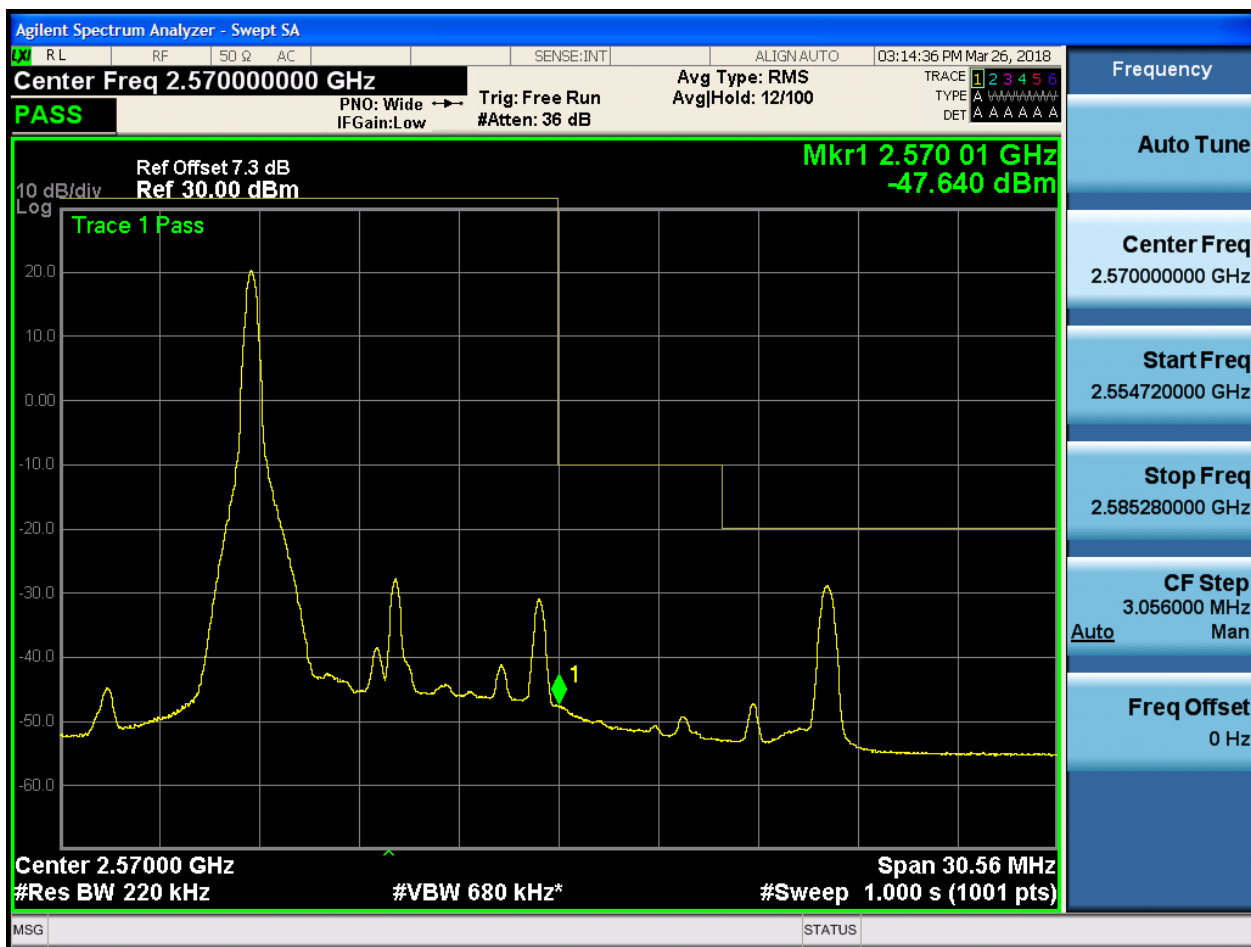


5.1.1.1.2.1.4 Test RB = RB50#0



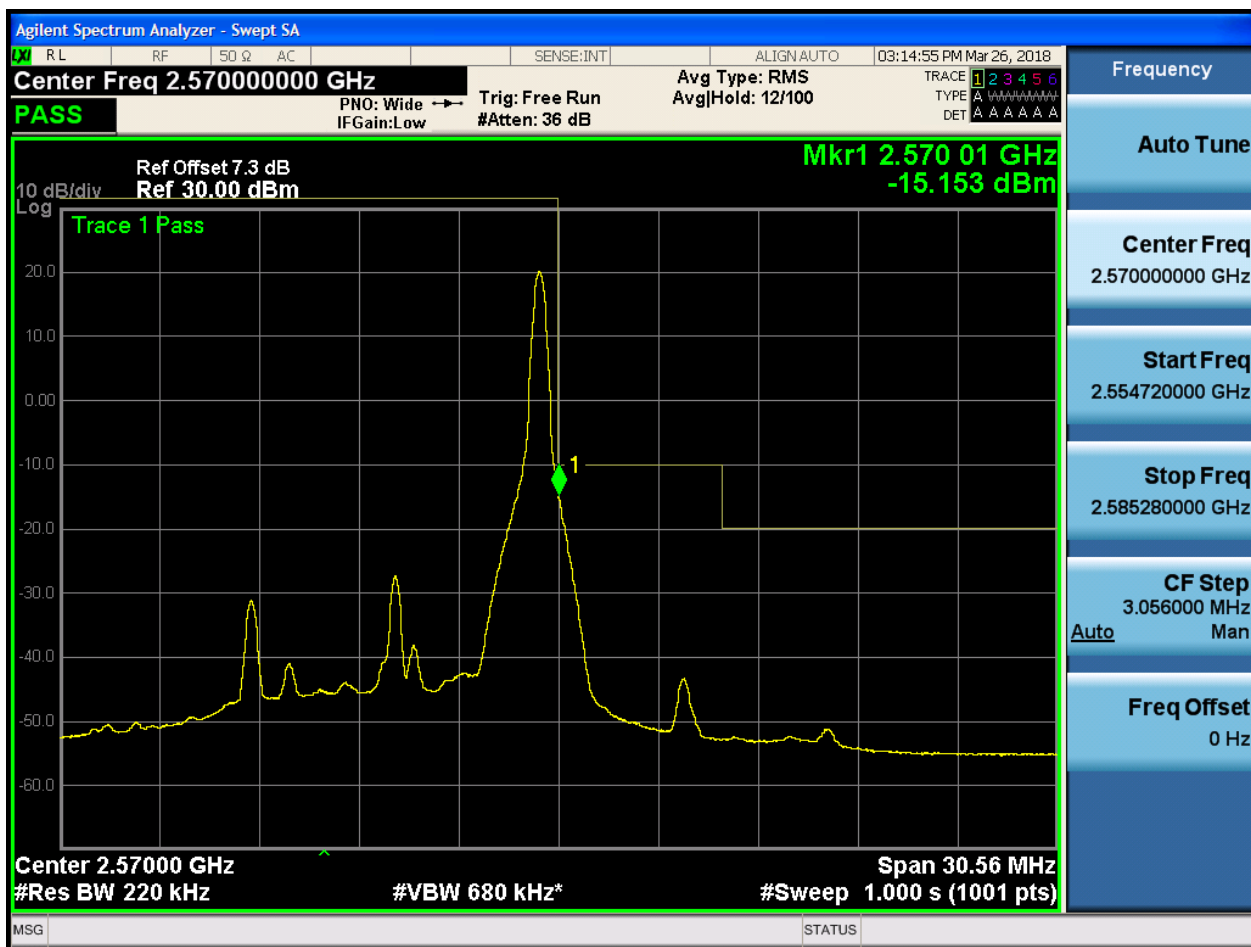
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





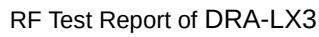
5.1.1.1.2.2.2 Test RB = RB1#49





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 IFGain:Low Trig: Free Run AvgHold: 12/100
PASS PNO: Wide → #Atten: 36 dB

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

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

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)

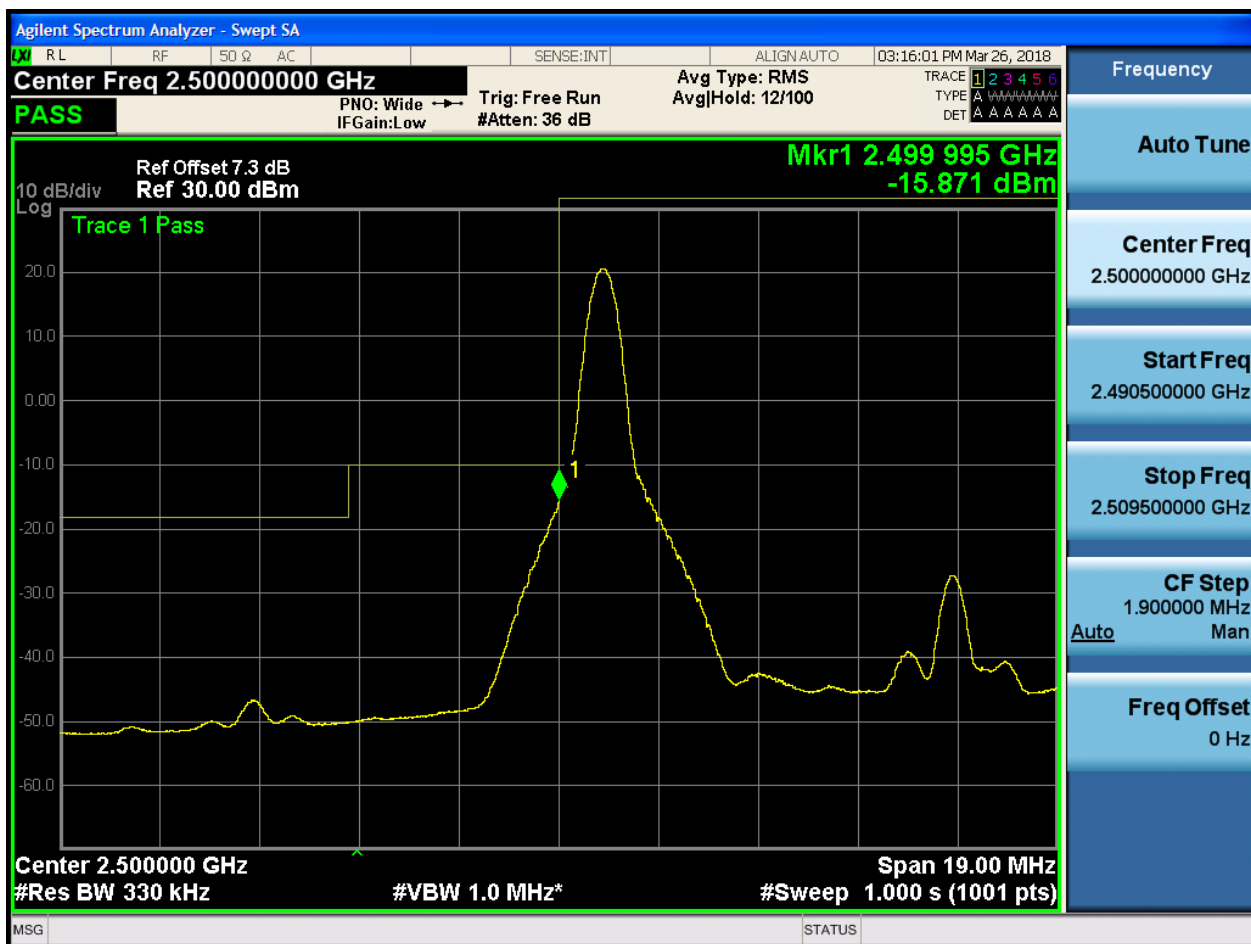
MSG STATUS

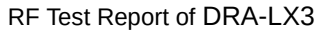


5.1.1.1.3 Test Bandwidth = 15

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 03:16:20 PM Mar 26, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
#Att: 36 dB

PASS PNO: Wide IFGain:Low Trig: Free Run

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
-47.327 dBm

10 dB/div
Log

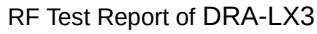
Trace 1 Pass

Center 2.500000 GHz
#Res BW 330 kHz

#VBW 1.0 MHz

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:16:40 PM Mar 26, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 330 kHz IFGain:Low Trig: Free Run AvgHold: 10/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-30.492 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

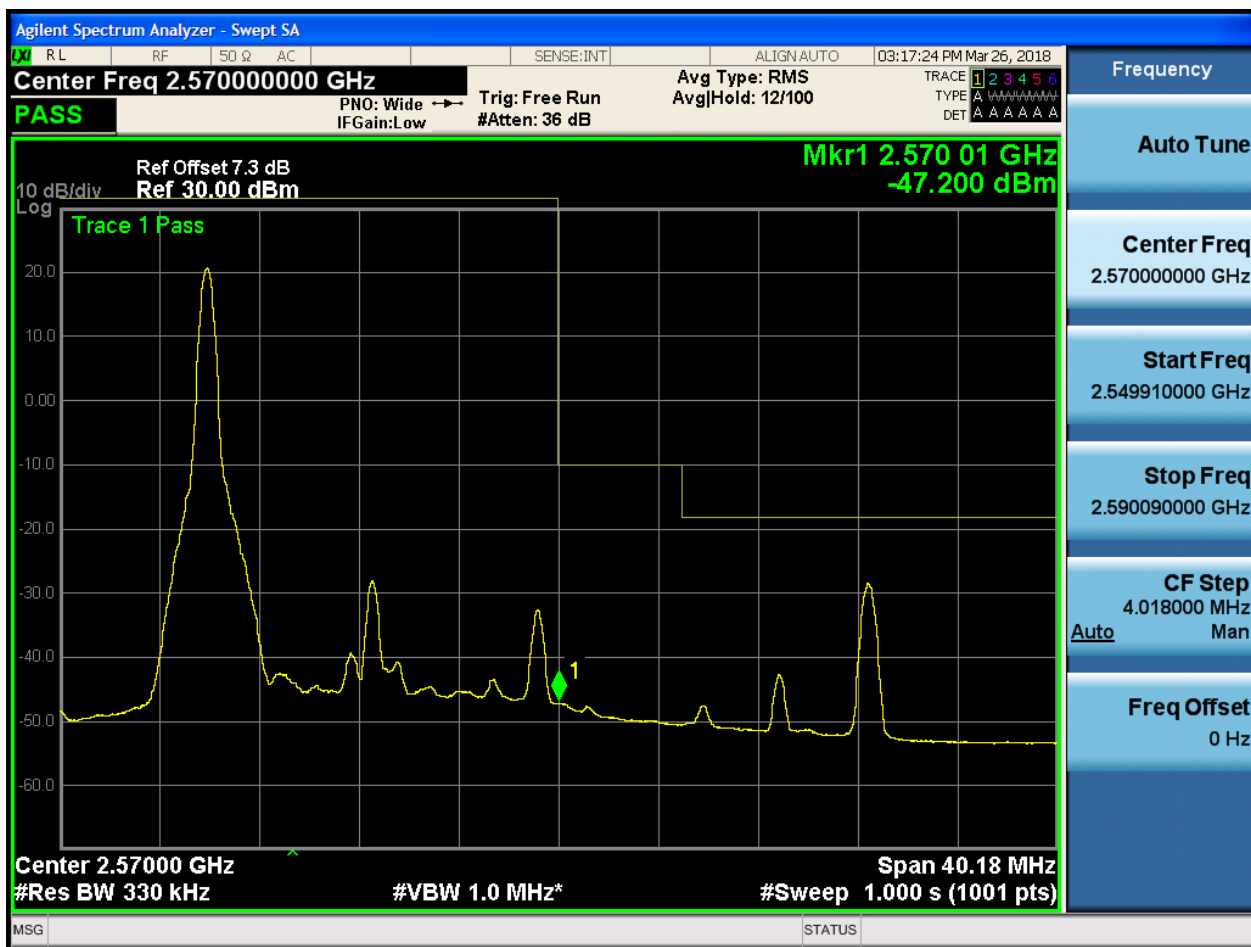


5.1.1.1.3.1.4 Test RB = RB75#0



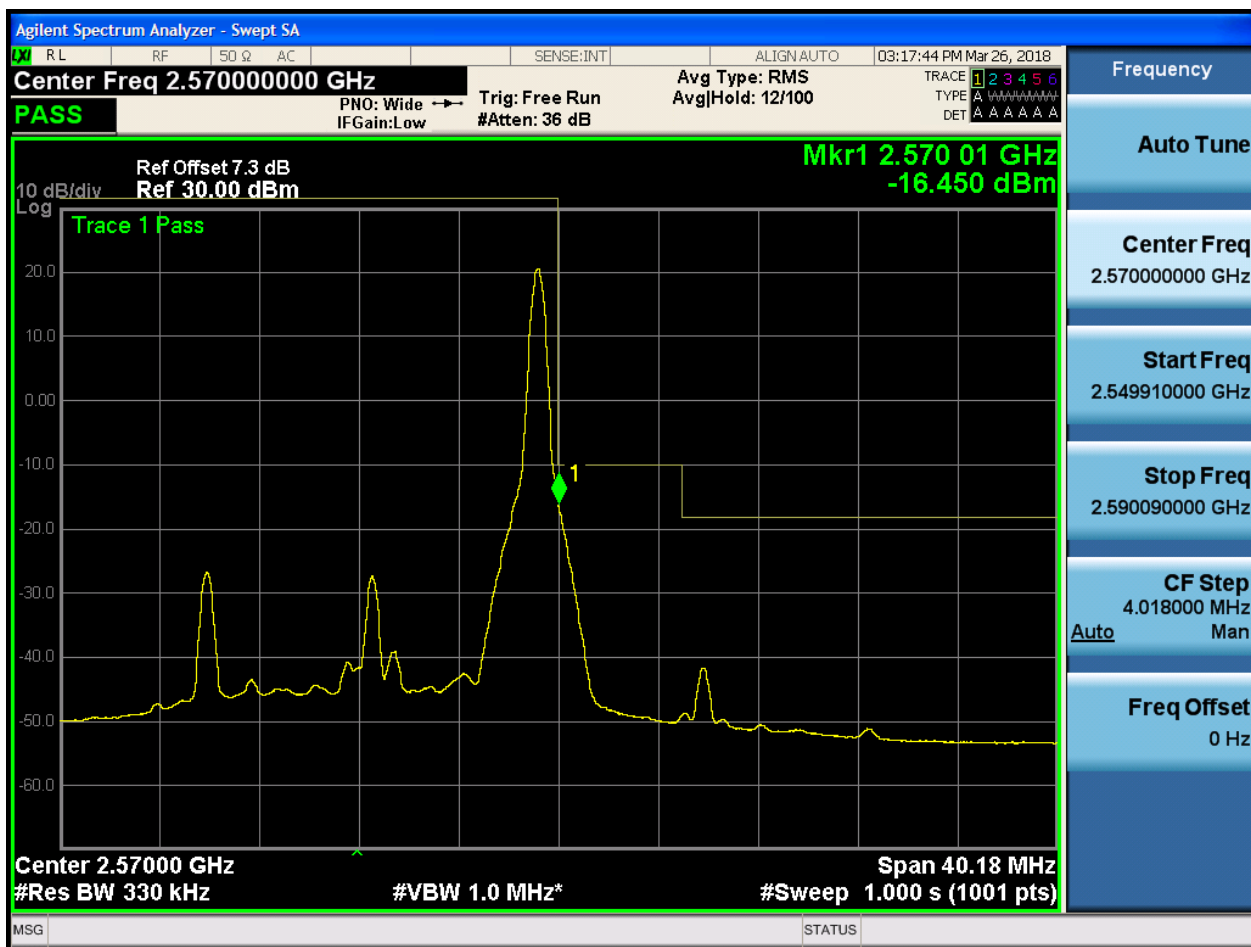
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





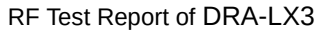
5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:18:23 PM Mar 26, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 330 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 2.570 01 GHz
-27.963 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 40.18 MHz
#Res BW 330 kHz #VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

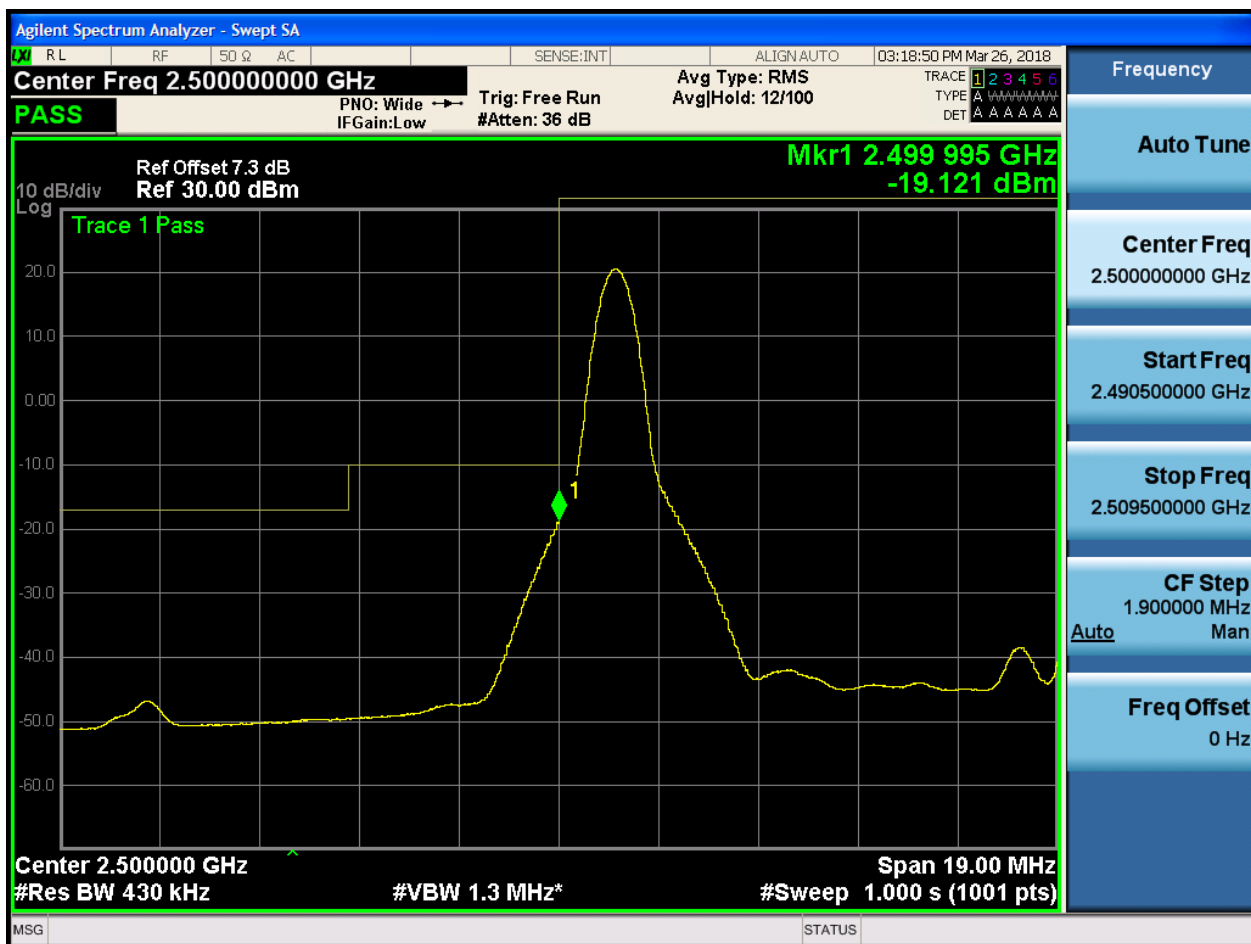
MSG STATUS

Frequency
Auto Tune
Center Freq 2.57000000 GHz
Start Freq 2.549910000 GHz
Stop Freq 2.590090000 GHz
CF Step 4.018000 MHz Auto Man
Freq Offset 0 Hz

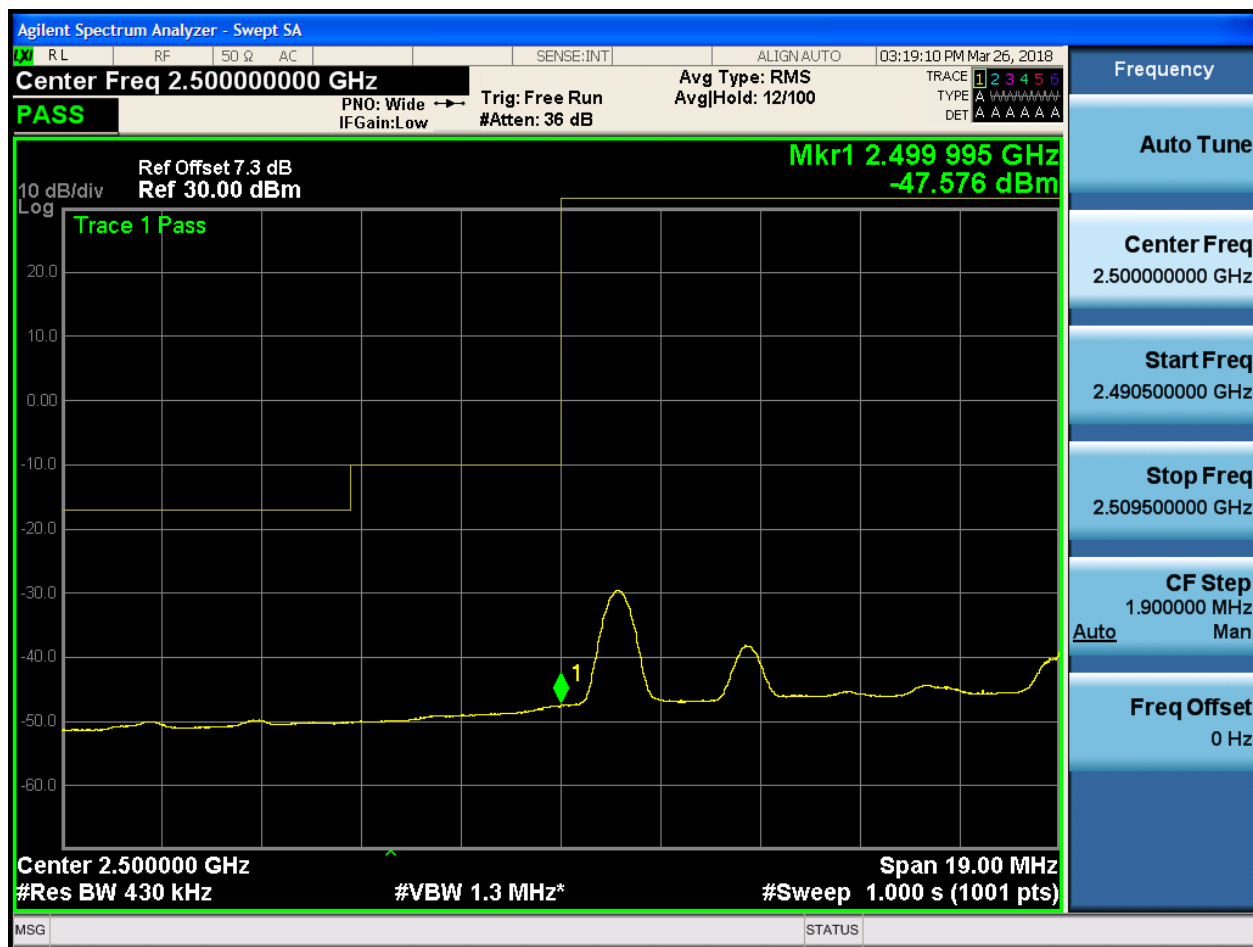
5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

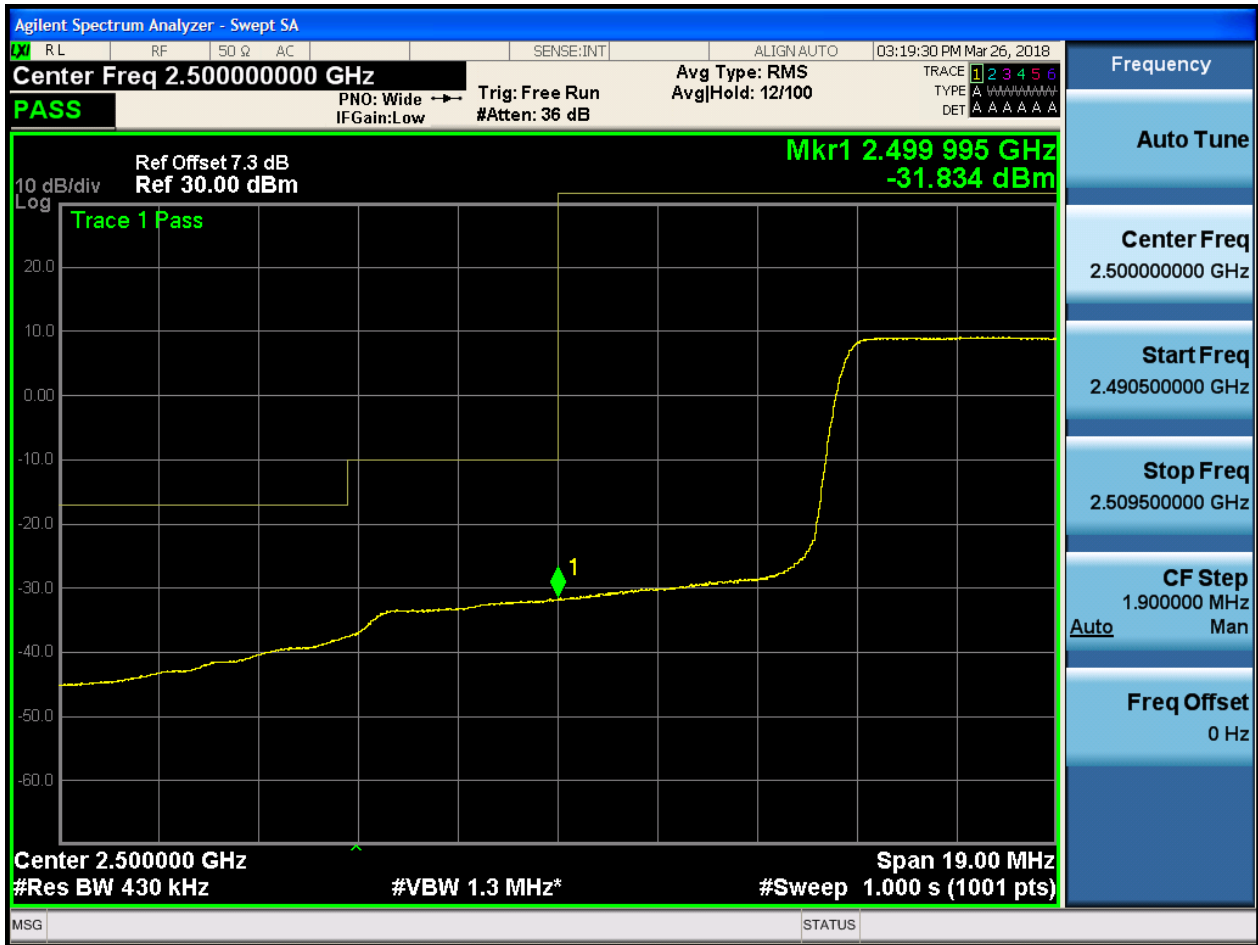
5.1.1.1.4.1.1 Test RB = RB1#0



5.1.1.1.4.1.2 Test RB = RB1#99



5.1.1.1.4.1.3 Test RB = RB50#25





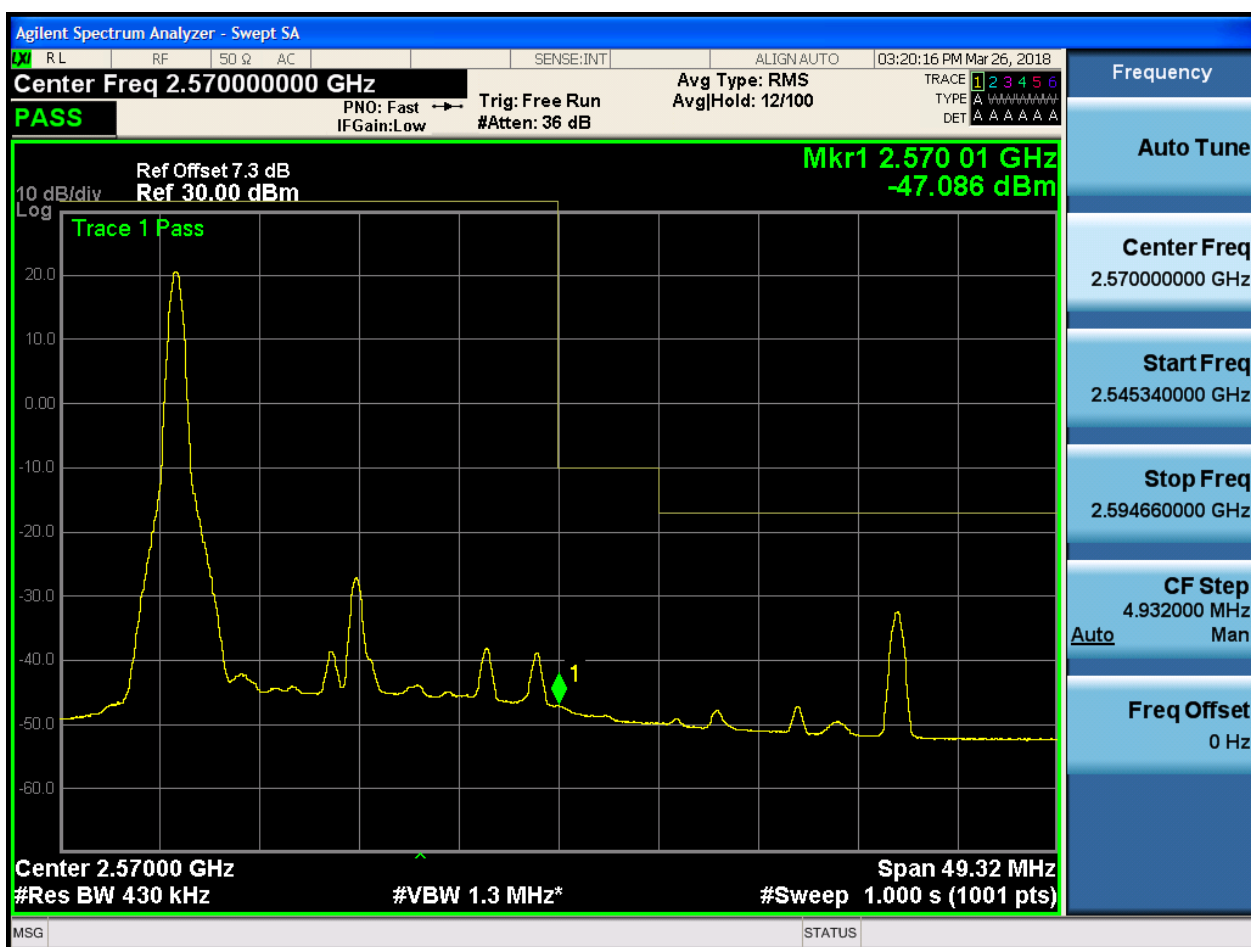
5.1.1.1.4.1.4 Test RB = RB100#0





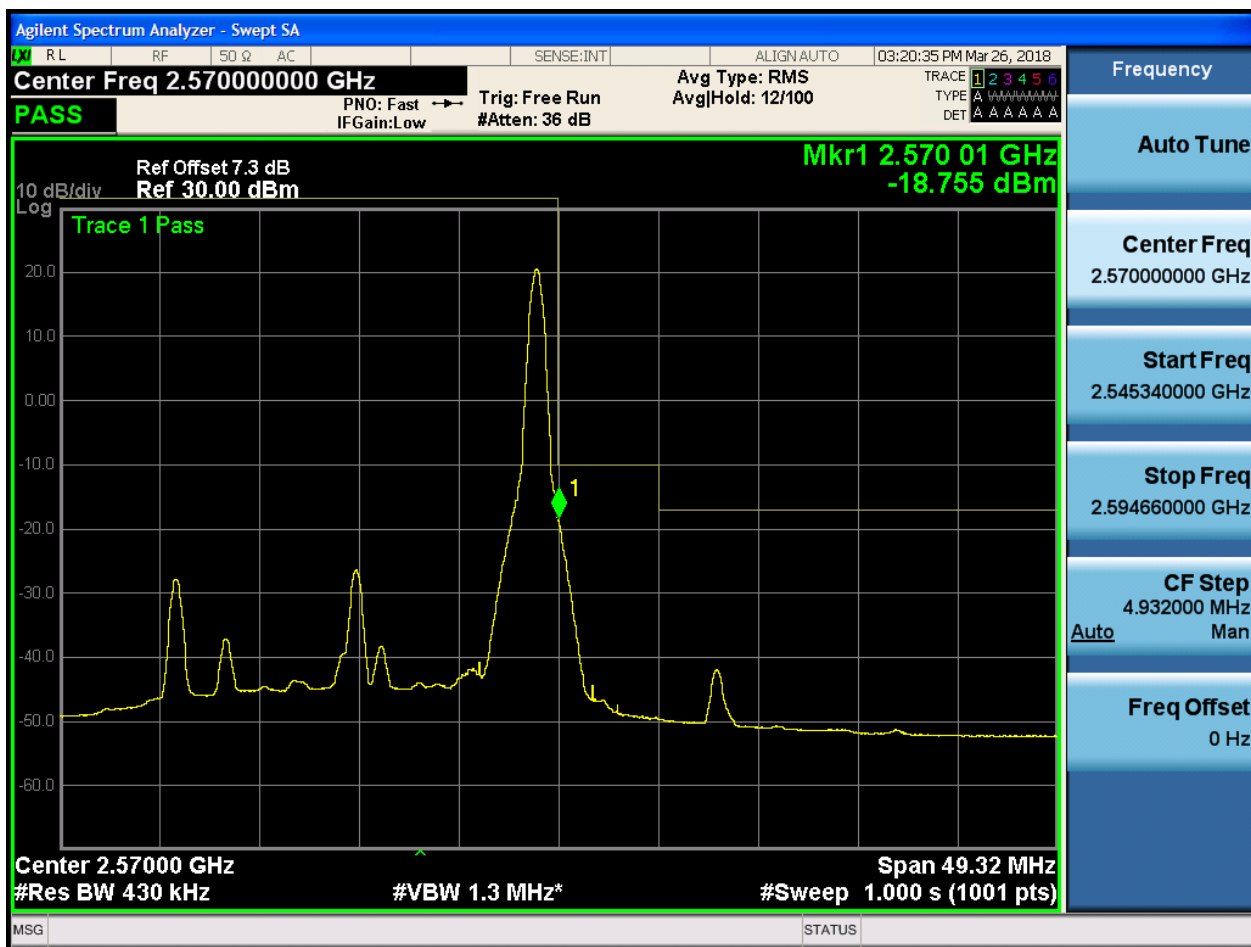
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0

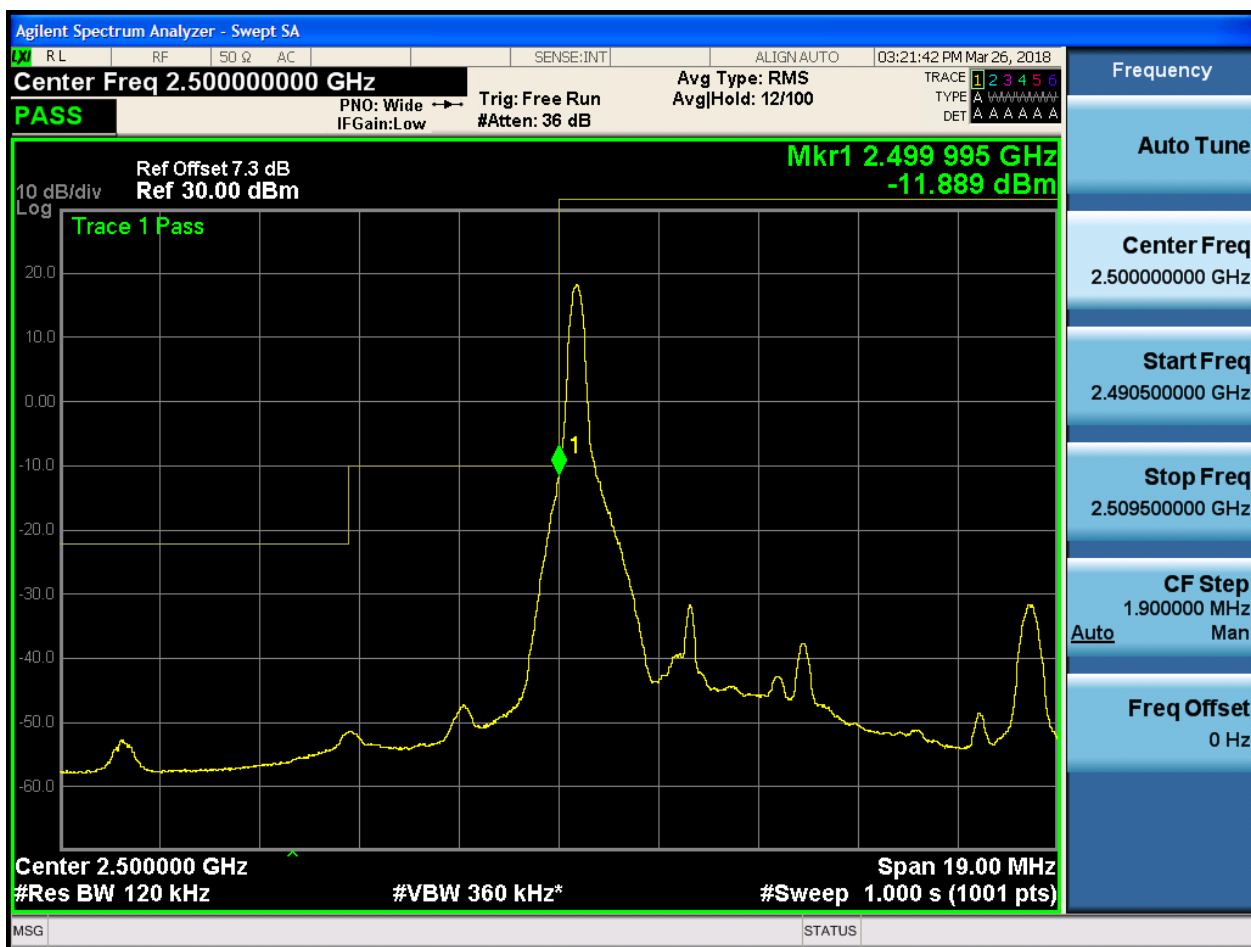


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

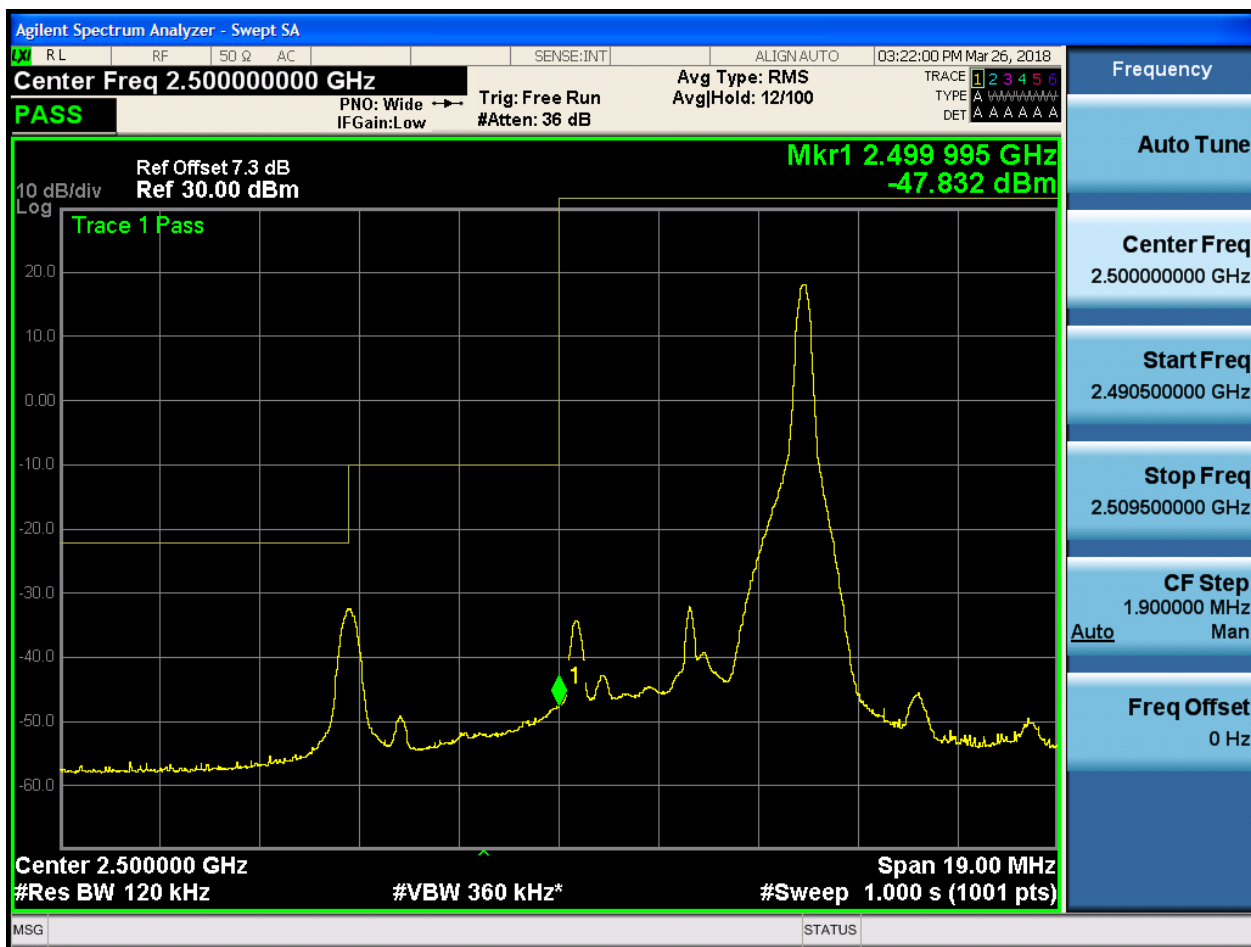
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



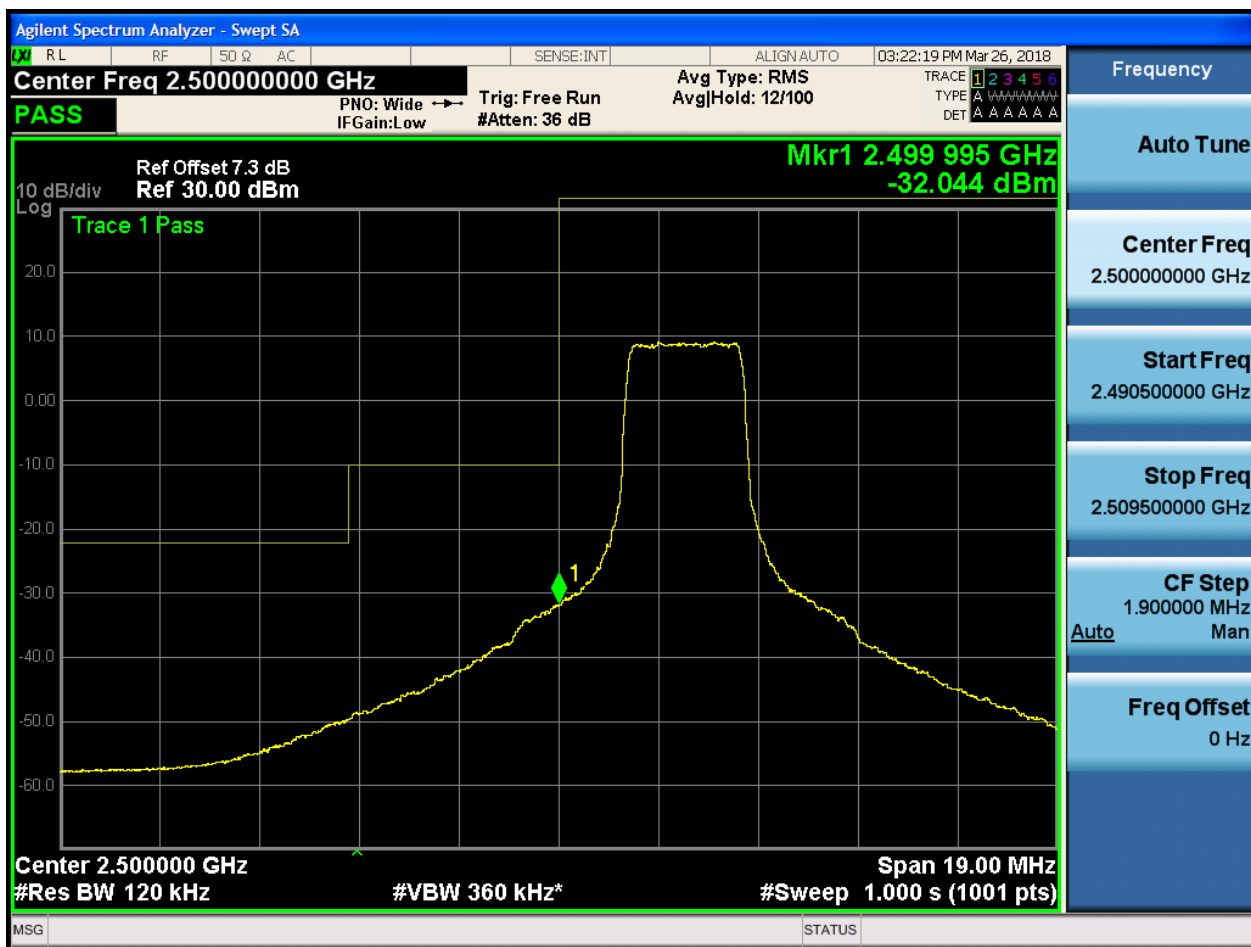


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6



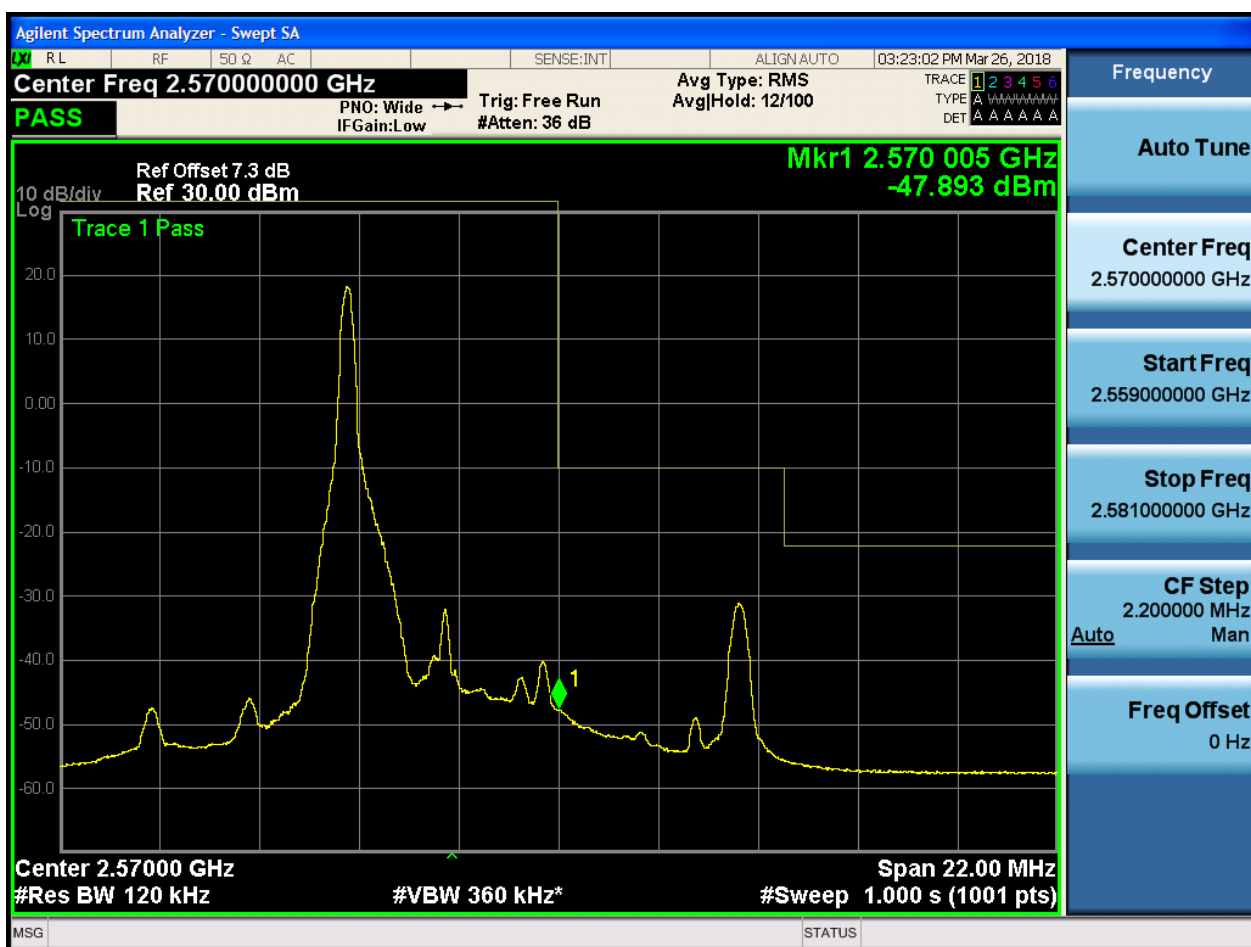


5.1.1.2.1.1.4 Test RB = RB25#0



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



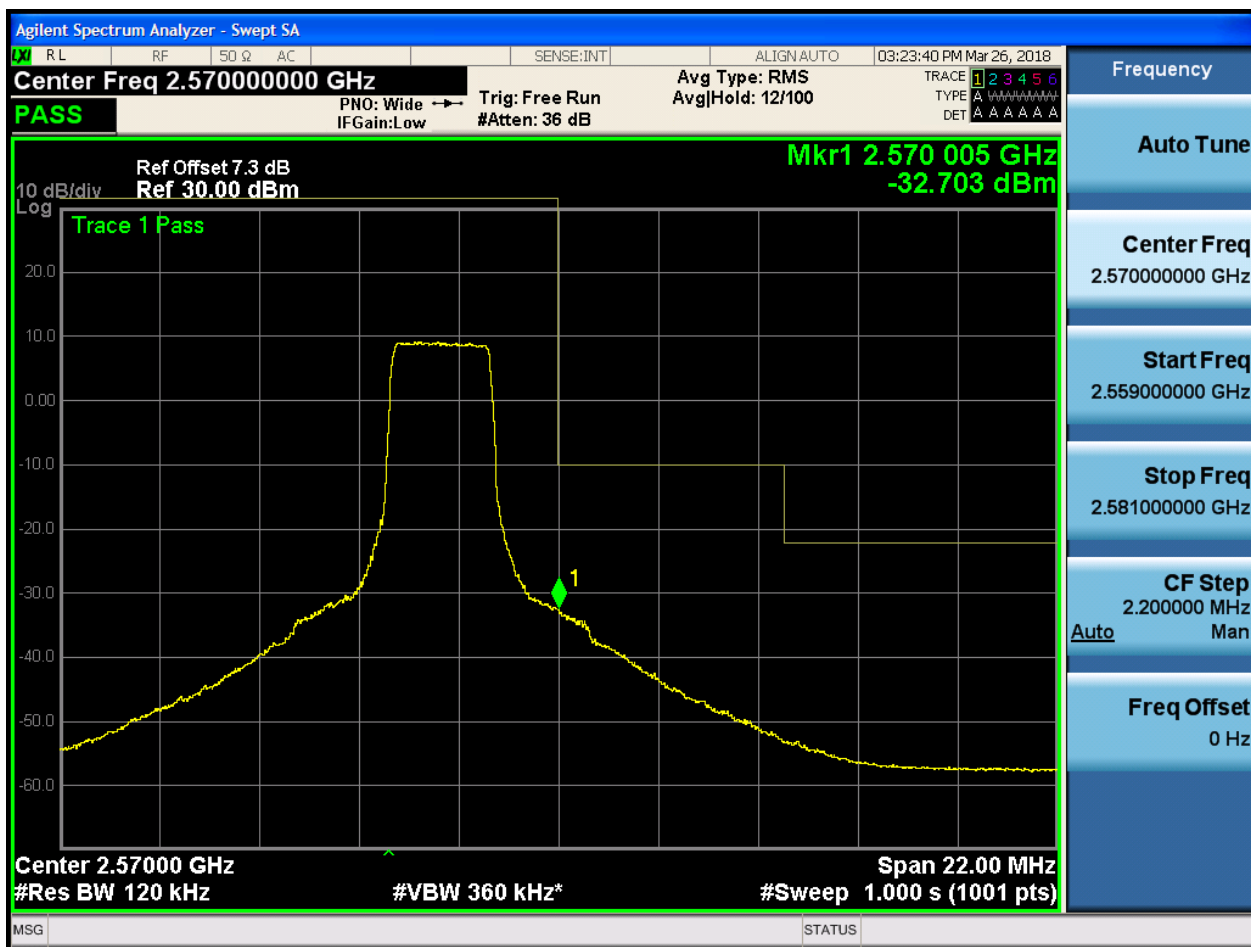


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

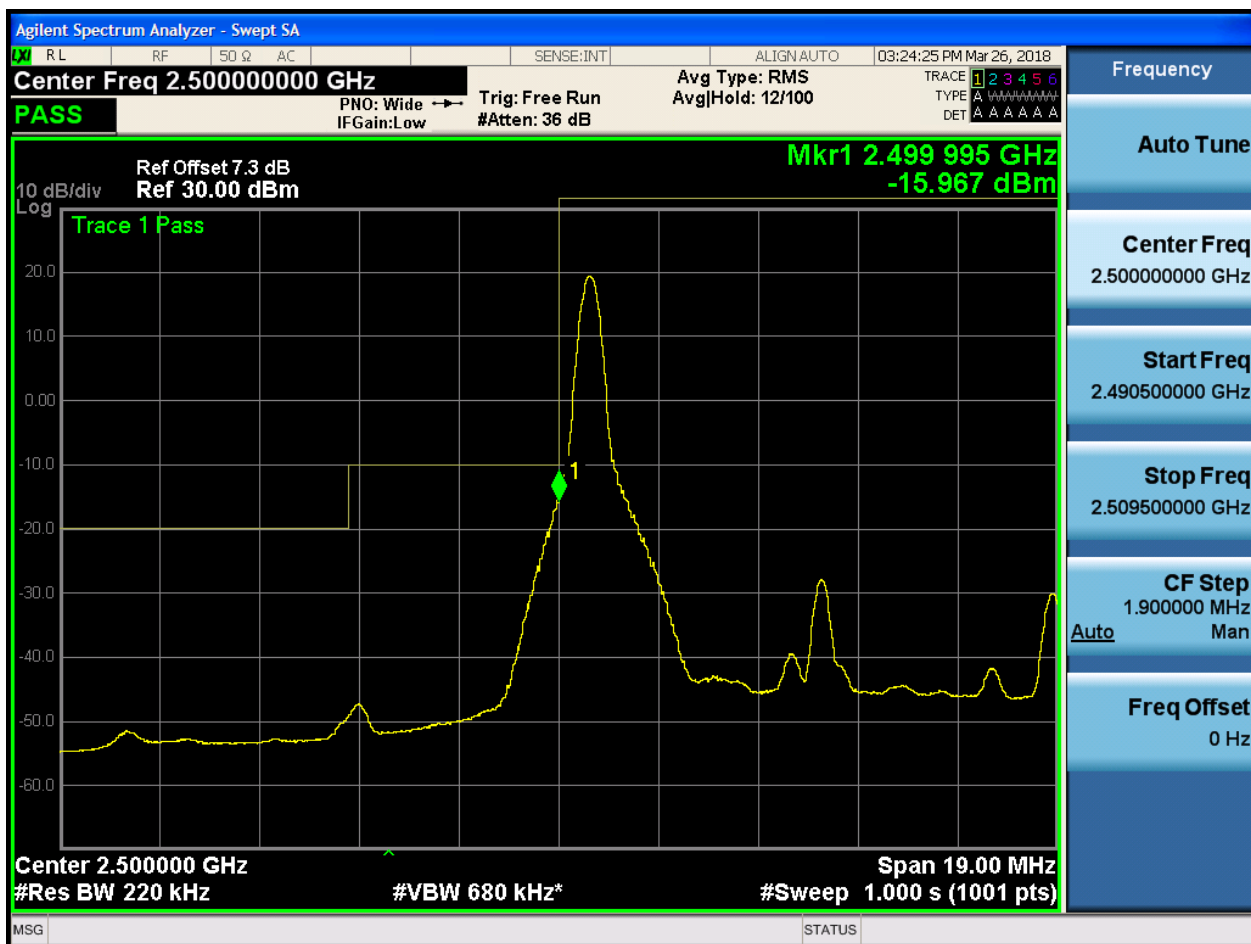




5.1.1.2.2 Test Bandwidth = 10

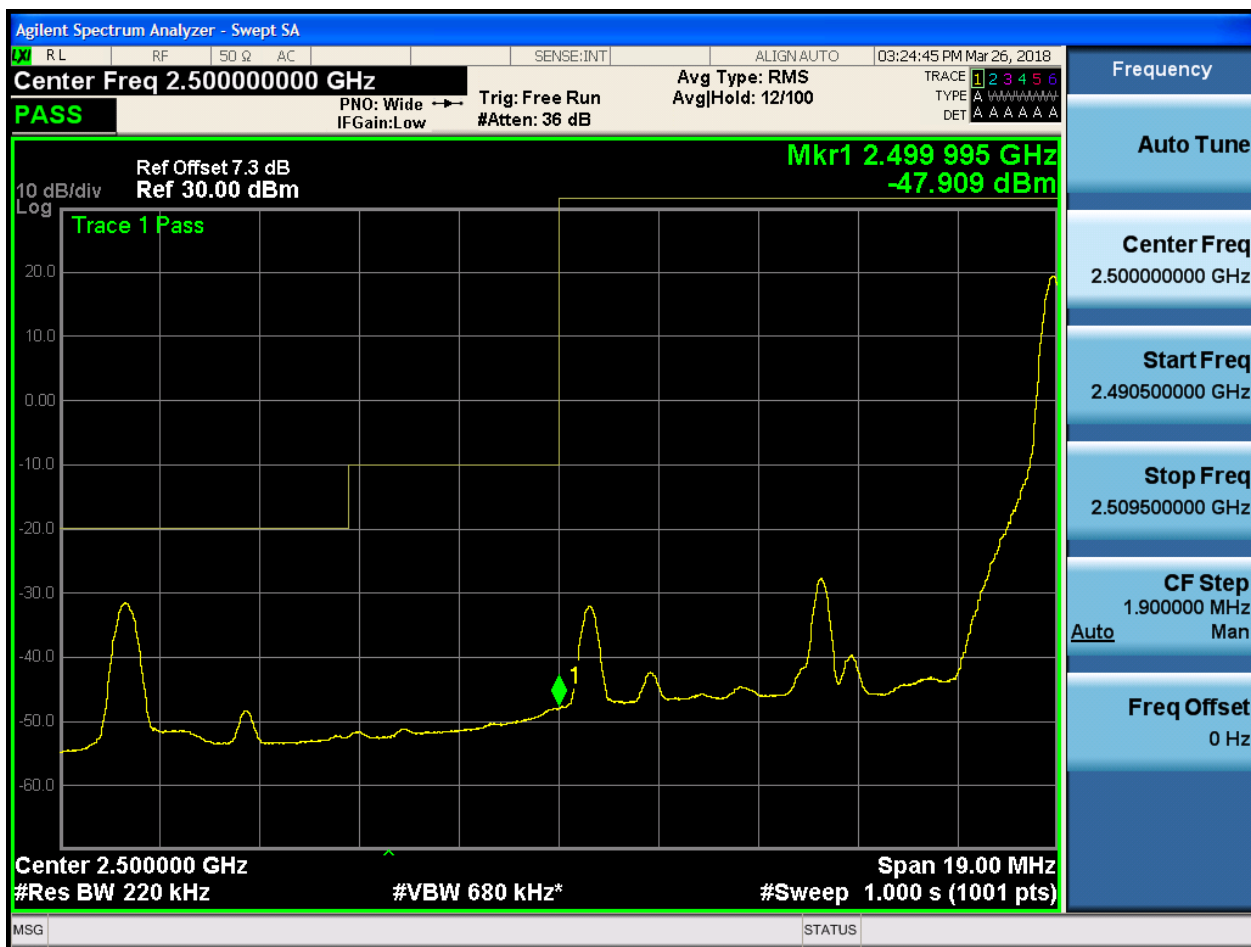
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13



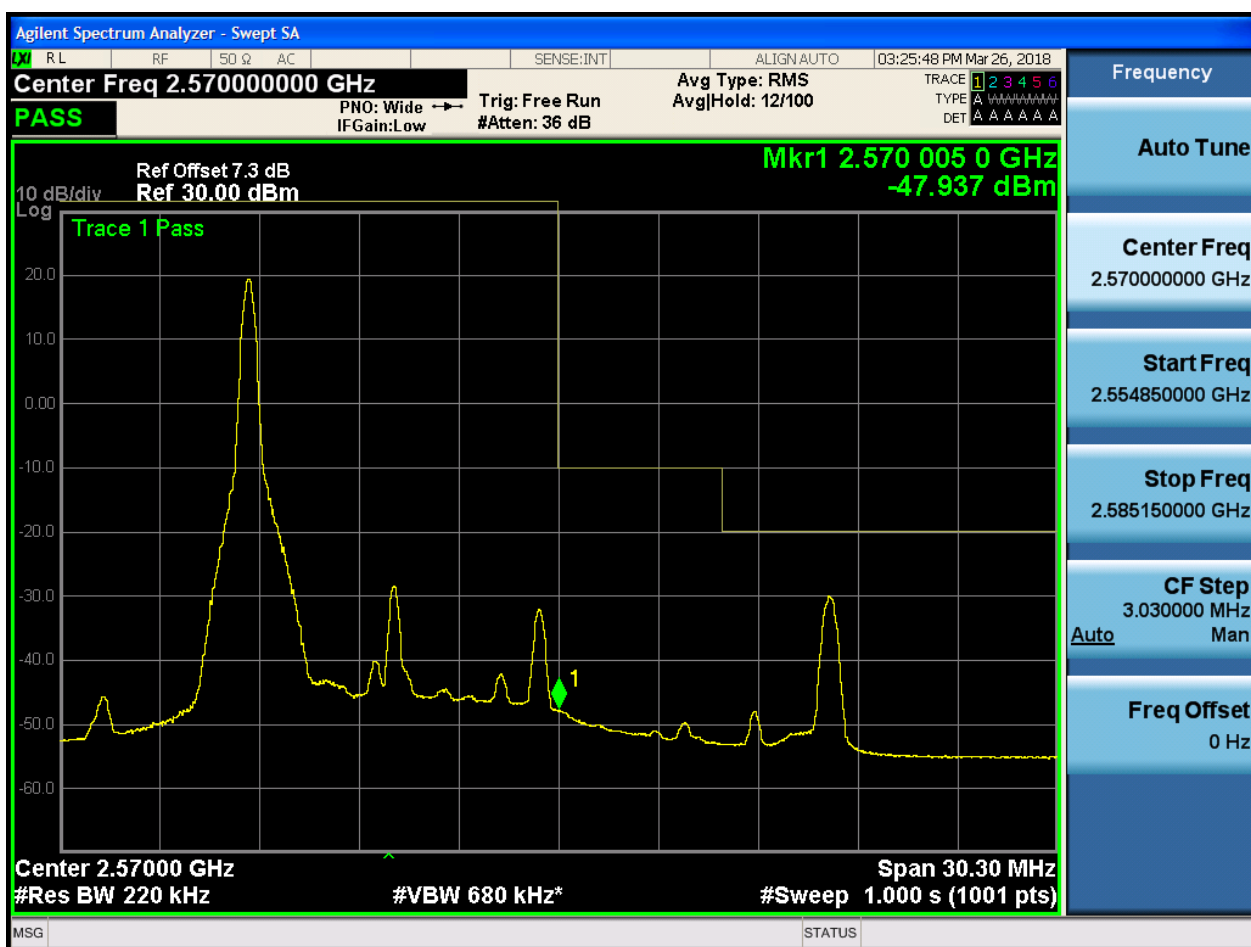


5.1.1.2.2.1.4 Test RB = RB50#0



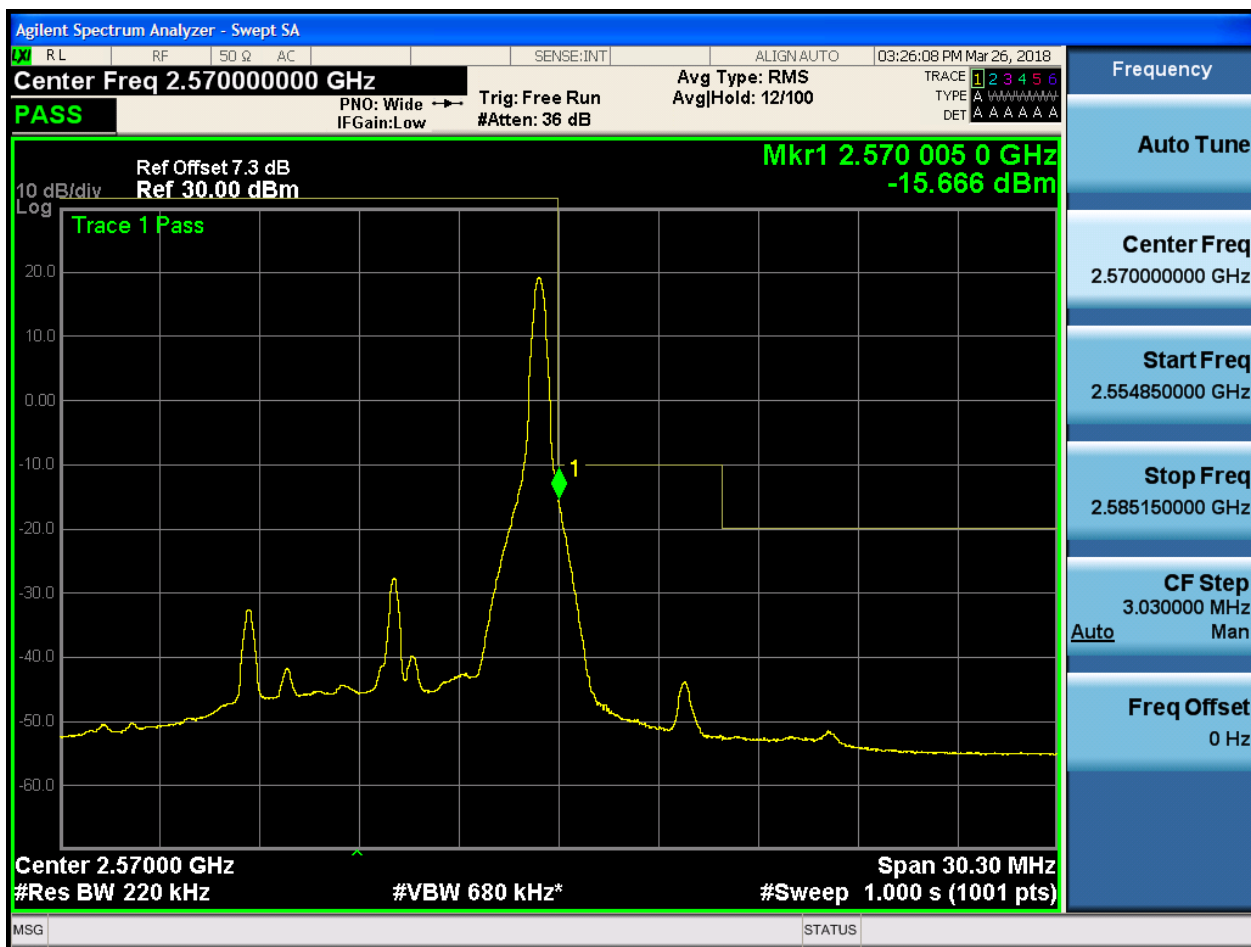
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

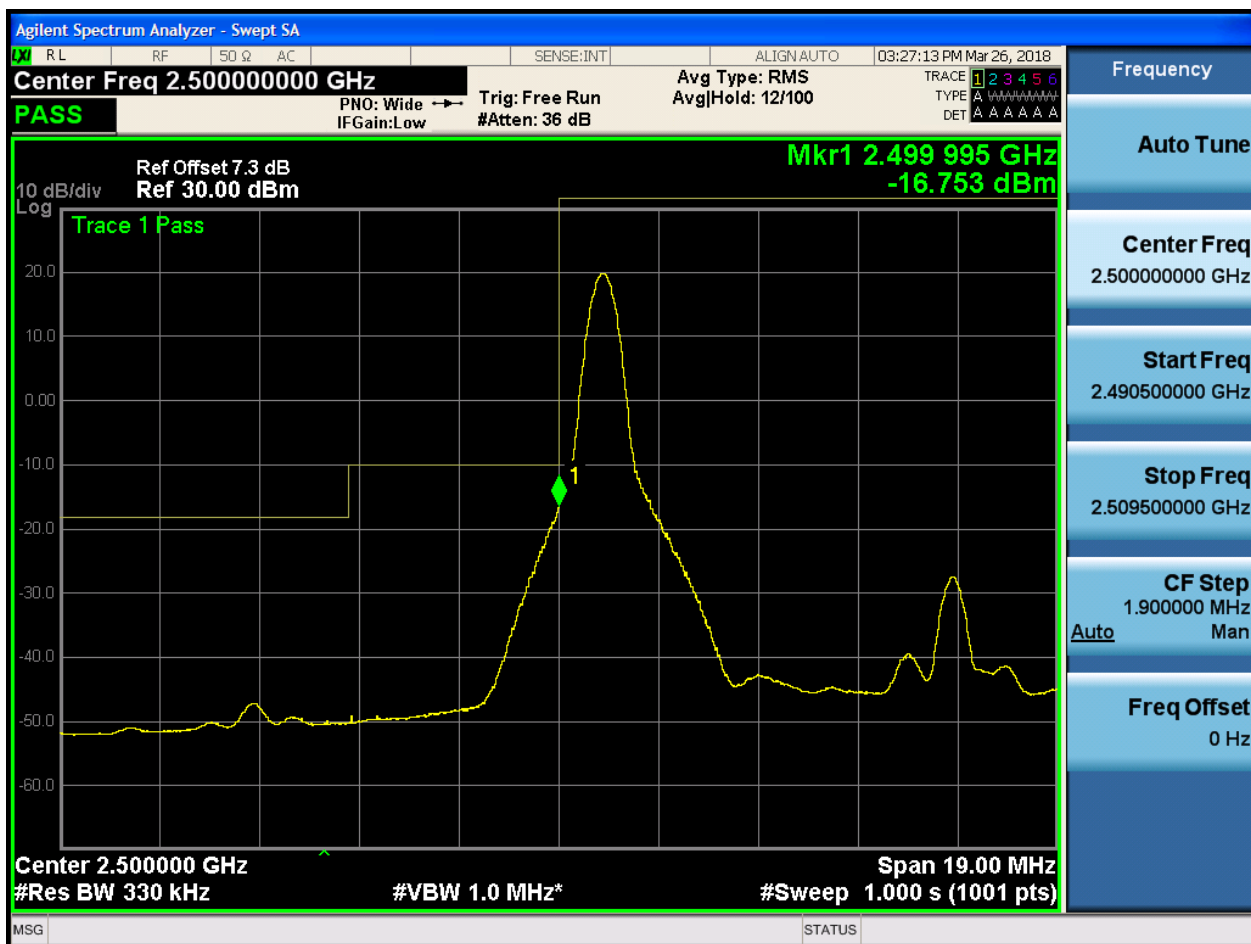




5.1.1.2.3 Test Bandwidth = 15

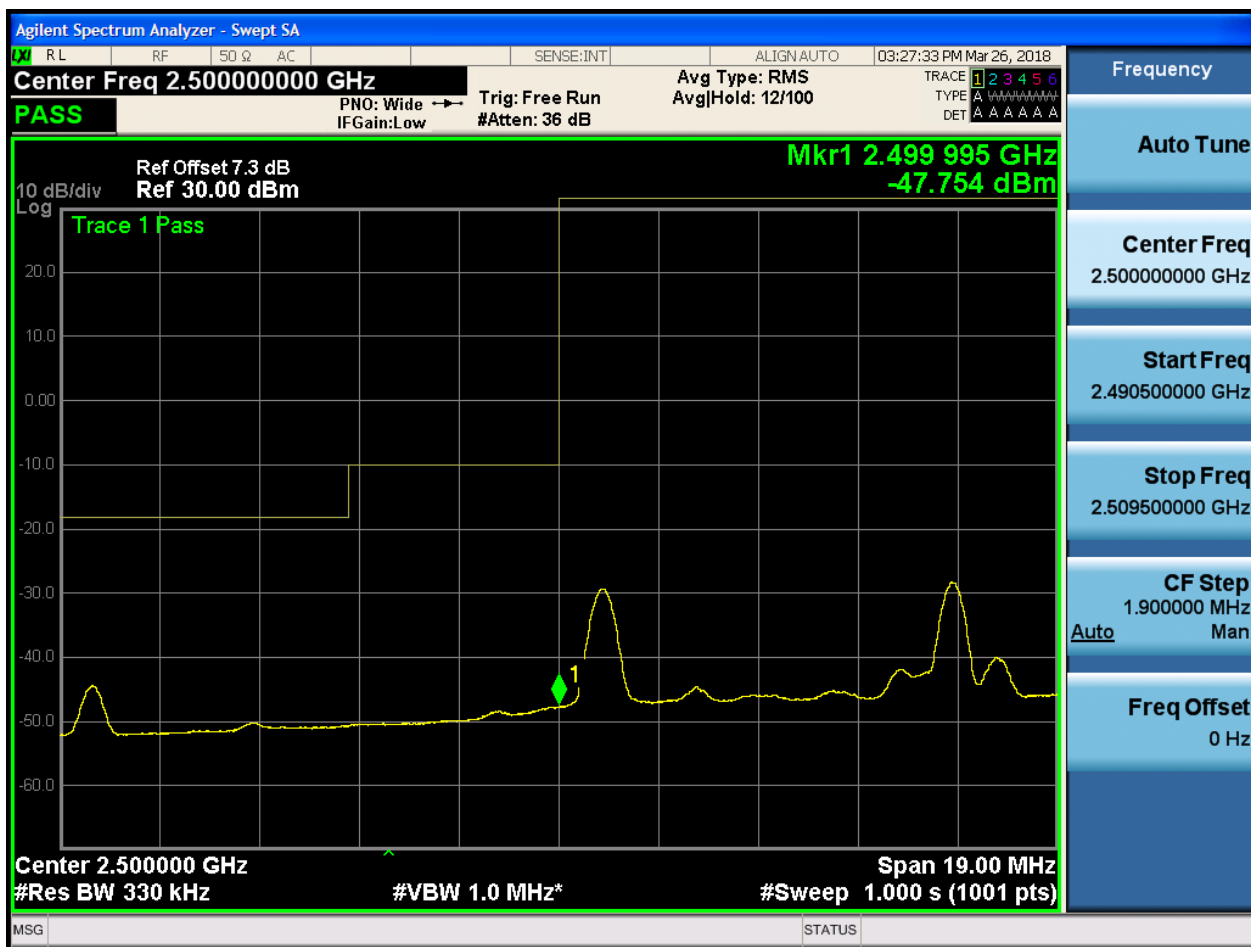
5.1.1.2.3.1 Test Channel = LCH

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

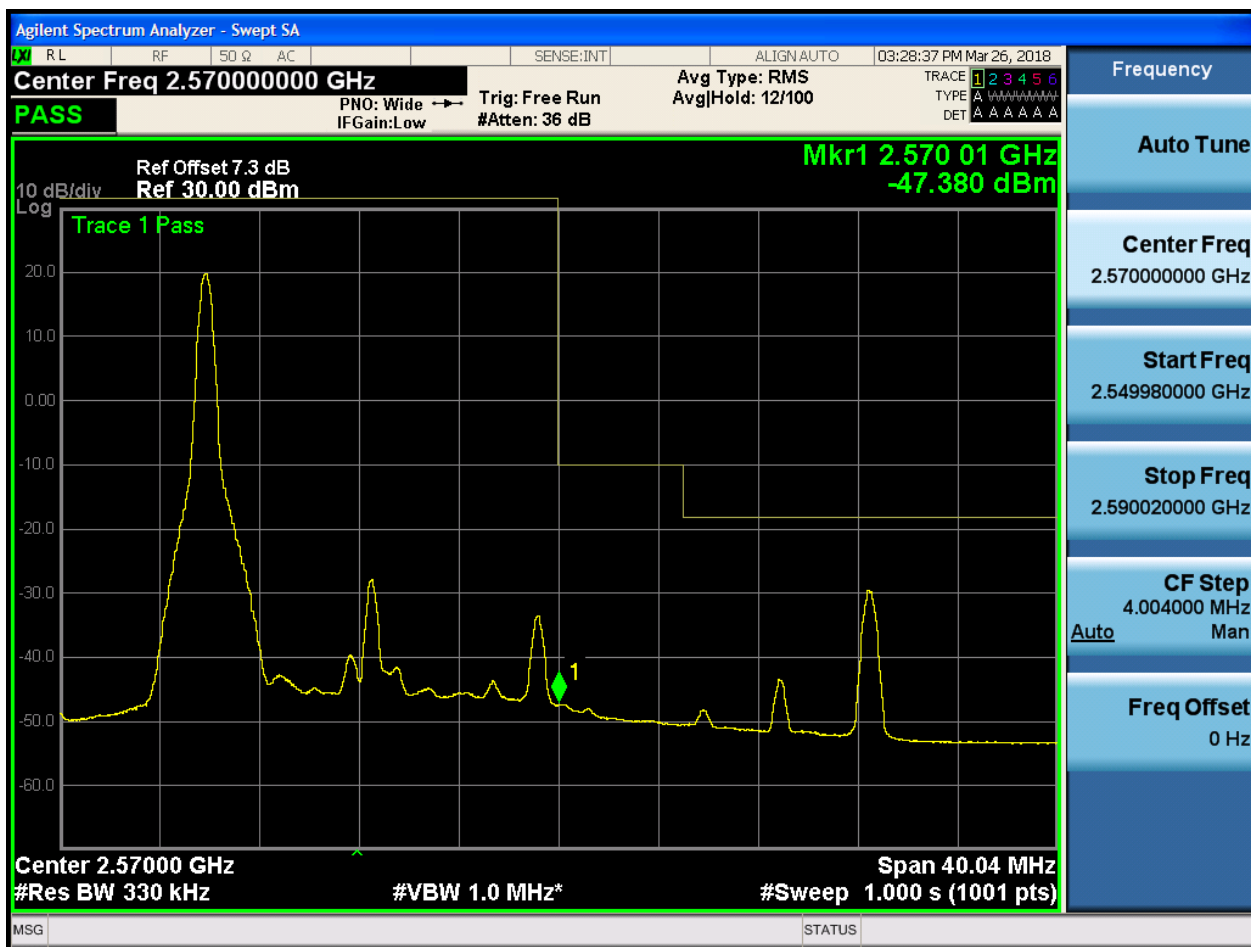


5.1.1.2.3.1.4 Test RB = RB75#0



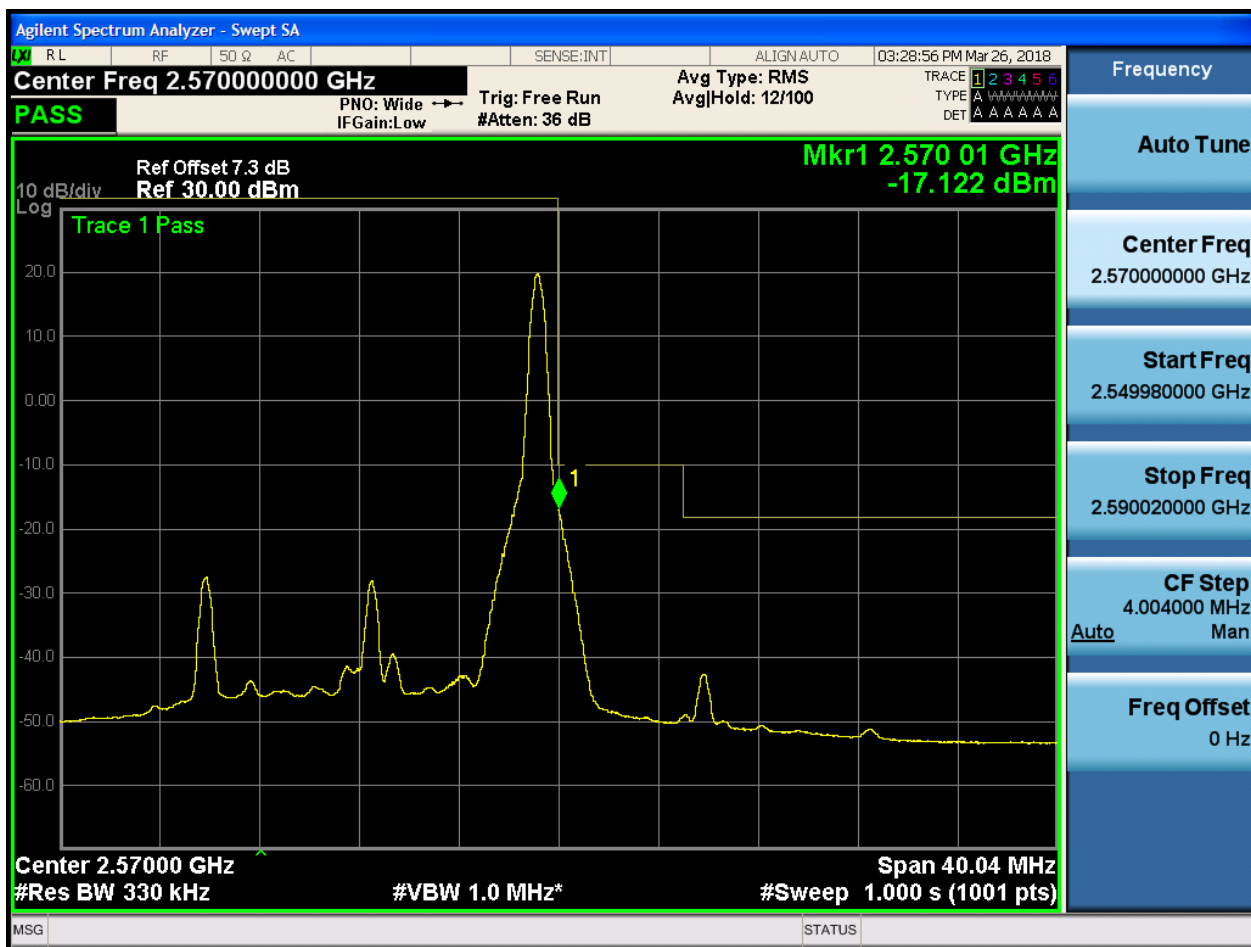
5.1.1.2.3.2 Test Channel = HCH

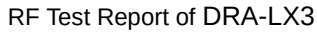
5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:29:16 PM Mar 26, 2018

Center Freq 2.57000000 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 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
-33.732 dBm

10 dB/div
Log

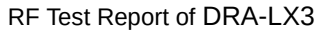
Trace 1 Pass

The spectrum analyzer display shows a signal trace with a peak at 2.57001 GHz. The peak is labeled '1' and has a value of -33.732 dBm. The trace is labeled 'Trace 1 Pass'. The display also shows the center frequency, span, resolution bandwidth, and sweep time.

Center 2.57000 GHz Span 40.04 MHz
#Res BW 330 kHz #VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 2.570000000 GHz
Start Freq 2.549980000 GHz
Stop Freq 2.590020000 GHz
CF Step 4.004000 MHz Auto Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:29:36 PM Mar 26, 2018

Center Freq 2.570000000 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 2.570 01 GHz
-28.898 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 330 kHz
#VBW 1.0 MHz*
Span 40.04 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.549980000 GHz

Stop Freq
2.590020000 GHz

CF Step
4.004000 MHz
Auto Man

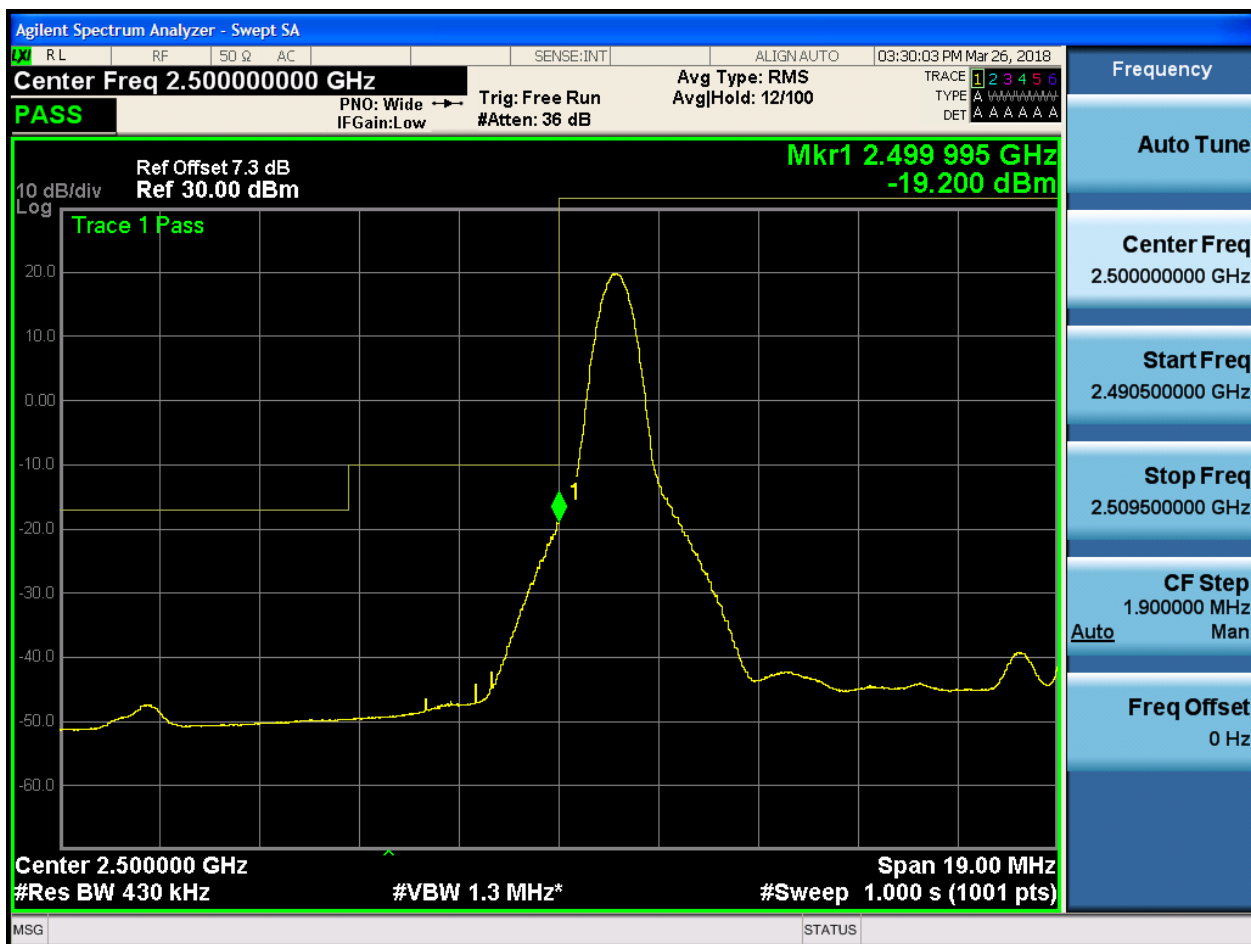
Freq Offset
0 Hz

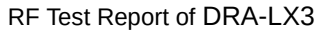


5.1.1.2.4 Test Bandwidth = 20

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 03:30:23 PM Mar 26, 2018

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

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-47.544 dBm

10 dB/div
Log

Trace 1 Pass

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

MSG STATUS

Frequency

Auto Tune

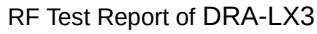
Center Freq
2.500000000 GHz

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 03:30:43 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

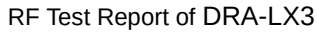
Mkr1 2.499 995 GHz
-33.909 dBm

10 dB/div
Log

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)

MSG STATUS



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 Trace 1 2 3 4 5 6
#Atten: 36 dB TYPE A A A A A A
DET A A A A A A

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
#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

