



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	21.24	21.54	33	PASS
				RB1#13	21.57	21.98	33	PASS
				RB1#24	21.45	21.84	33	PASS
				RB12#0	20.53	20.97	33	PASS
				RB12#6	20.65	20.91	33	PASS
				RB12#13	19.87	20.22	33	PASS
				RB25#0	19.91	20.22	33	PASS
			MCH	RB1#0	21.57	22.01	33	PASS
				RB1#13	21.84	22.26	33	PASS
				RB1#24	21.58	22.11	33	PASS
				RB12#0	20.87	21.14	33	PASS
				RB12#6	20.92	21.29	33	PASS
				RB12#13	19.98	20.42	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.03	20.36	33	PASS
			HCH	RB1#0	21.44	21.95	33	PASS
				RB1#13	21.79	22.33	33	PASS
				RB1#24	21.59	21.87	33	PASS
				RB12#0	20.8	21.15	33	PASS
				RB12#6	20.77	21.12	33	PASS
				RB12#13	19.86	20.22	33	PASS
				RB25#0	19.91	20.16	33	PASS
		10	LCH	RB1#0	21.44	21.86	33	PASS
				RB1#25	21.7	22.12	33	PASS
				RB1#49	21.6	21.91	33	PASS
				RB25#0	20.74	21.20	33	PASS
				RB25#13	20.82	21.16	33	PASS
				RB25#25	20.46	20.92	33	PASS
				RB50#0	20.56	20.95	33	PASS
			MCH	RB1#0	21.74	22.06	33	PASS
				RB1#25	21.84	22.24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.73	22.13	33	PASS
				RB25#0	20.77	21.29	33	PASS
				RB25#13	20.79	21.26	33	PASS
				RB25#25	20.33	20.62	33	PASS
				RB50#0	20.32	20.71	33	PASS
			HCH	RB1#0	21.61	21.90	33	PASS
				RB1#25	21.56	22.07	33	PASS
				RB1#49	21.53	21.99	33	PASS
				RB25#0	20.58	20.90	33	PASS
				RB25#13	20.65	21.11	33	PASS
				RB25#25	20.12	20.65	33	PASS
				RB50#0	20.27	20.64	33	PASS
		15	LCH	RB1#0	21.19	21.48	33	PASS
				RB1#38	21.62	21.88	33	PASS
				RB1#74	21.43	21.76	33	PASS
				RB36#0	20.55	21.07	33	PASS
				RB36#18	20.68	21.06	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	20.56	20.84	33	PASS
				RB75#0	20.62	21.15	33	PASS
			MCH	RB1#0	21.27	21.59	33	PASS
				RB1#38	21.6	22.03	33	PASS
				RB1#74	21.68	22.02	33	PASS
				RB36#0	20.48	20.92	33	PASS
				RB36#18	20.63	20.97	33	PASS
				RB36#39	20.5	20.81	33	PASS
				RB75#0	20.46	21.00	33	PASS
			HCH	RB1#0	21.42	21.74	33	PASS
				RB1#38	21.4	21.84	33	PASS
				RB1#74	21.56	21.81	33	PASS
				RB36#0	20.47	20.94	33	PASS
				RB36#18	20.42	20.93	33	PASS
				RB36#39	20.44	20.74	33	PASS
				RB75#0	20.52	20.99	33	PASS
		20	LCH	RB1#0	21.14	21.61	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	21.54	21.93	33	PASS
				RB1#99	21.44	21.80	33	PASS
				RB50#0	20.69	21.15	33	PASS
				RB50#25	20.71	20.96	33	PASS
				RB50#50	20.47	20.80	33	PASS
				RB100#0	20.63	21.07	33	PASS
			MCH	RB1#0	21.15	21.44	33	PASS
				RB1#50	21.56	21.95	33	PASS
				RB1#99	21.66	22.09	33	PASS
				RB50#0	20.35	20.69	33	PASS
				RB50#25	20.56	21.10	33	PASS
				RB50#50	20.72	21.13	33	PASS
				RB100#0	20.54	20.80	33	PASS
			HCH	RB1#0	21.58	21.91	33	PASS
				RB1#50	21.45	21.77	33	PASS
				RB1#99	21.55	21.97	33	PASS
				RB50#0	20.69	21.24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	20.46	20.73	33	PASS
				RB50#50	20.47	20.88	33	PASS
				RB100#0	20.92	21.20	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.46	20.75	33	PASS
				RB1#13	20.81	21.33	33	PASS
				RB1#24	20.64	21.00	33	PASS
				RB12#0	20.57	20.92	33	PASS
				RB12#6	20.63	20.98	33	PASS
				RB12#13	19.85	20.20	33	PASS
				RB25#0	19.94	20.38	33	PASS
			MCH	RB1#0	20.95	21.50	33	PASS
				RB1#13	20.99	21.38	33	PASS
				RB1#24	20.92	21.34	33	PASS
				RB12#0	20.76	21.29	33	PASS
				RB12#6	20.81	21.07	33	PASS
				RB12#13	19.91	20.19	33	PASS
				RB25#0	19.93	20.37	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	20.72	21.09	33	PASS
				RB1#13	20.89	21.43	33	PASS
				RB1#24	20.69	21.00	33	PASS
				RB12#0	20.72	20.99	33	PASS
				RB12#6	20.71	21.12	33	PASS
				RB12#13	19.8	20.26	33	PASS
				RB25#0	19.81	20.29	33	PASS
		10	LCH	RB1#0	20.63	21.11	33	PASS
				RB1#25	20.8	21.28	33	PASS
				RB1#49	20.68	20.97	33	PASS
				RB25#0	20.66	20.92	33	PASS
				RB25#13	20.63	20.93	33	PASS
				RB25#25	20.3	20.76	33	PASS
				RB50#0	20.39	20.73	33	PASS
			MCH	RB1#0	20.82	21.27	33	PASS
				RB1#25	20.87	21.14	33	PASS
				RB1#49	20.79	21.07	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.64	21.01	33	PASS
				RB25#13	20.66	21.15	33	PASS
				RB25#25	20.17	20.47	33	PASS
				RB50#0	20.22	20.56	33	PASS
			HCH	RB1#0	20.86	21.37	33	PASS
				RB1#25	20.95	21.20	33	PASS
				RB1#49	20.76	21.28	33	PASS
				RB25#0	20.48	20.87	33	PASS
				RB25#13	20.56	20.84	33	PASS
				RB25#25	20.04	20.33	33	PASS
				RB50#0	20.18	20.58	33	PASS
		15	LCH	RB1#0	20.18	20.52	33	PASS
				RB1#38	20.66	21.19	33	PASS
				RB1#74	20.39	20.72	33	PASS
				RB36#0	20.4	20.70	33	PASS
				RB36#18	20.54	20.94	33	PASS
				RB36#39	20.41	20.79	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.48	20.88	33	PASS
			MCH	RB1#0	20.47	20.91	33	PASS
				RB1#38	20.86	21.11	33	PASS
				RB1#74	20.92	21.21	33	PASS
				RB36#0	20.39	20.70	33	PASS
				RB36#18	20.52	20.98	33	PASS
				RB36#39	20.41	20.94	33	PASS
				RB75#0	20.38	20.83	33	PASS
			HCH	RB1#0	20.67	21.20	33	PASS
				RB1#38	20.59	20.97	33	PASS
				RB1#74	20.55	20.90	33	PASS
				RB36#0	20.32	20.72	33	PASS
				RB36#18	20.34	20.73	33	PASS
				RB36#39	20.35	20.67	33	PASS
				RB75#0	20.36	20.71	33	PASS
		20	LCH	RB1#0	20.28	20.65	33	PASS
				RB1#50	20.74	21.08	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	20.49	20.83	33	PASS
				RB50#0	20.55	20.87	33	PASS
				RB50#25	20.51	20.88	33	PASS
				RB50#50	20.29	20.77	33	PASS
				RB100#0	20.43	20.91	33	PASS
			MCH	RB1#0	20.39	20.89	33	PASS
				RB1#50	20.87	21.41	33	PASS
				RB1#99	21.04	21.41	33	PASS
				RB50#0	20.3	20.62	33	PASS
				RB50#25	20.5	20.81	33	PASS
				RB50#50	20.65	21.17	33	PASS
				RB100#0	20.47	20.77	33	PASS
			HCH	RB1#0	20.92	21.44	33	PASS
				RB1#50	20.7	21.11	33	PASS
				RB1#99	20.72	21.10	33	PASS
				RB50#0	20.54	20.80	33	PASS
				RB50#25	20.37	20.78	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.32	20.61	33	PASS
				RB100#0	20.74	21.18	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 wxceed 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	3.82	13	PASS
				RB1#13	3.41	13	PASS
				RB1#24	3.4	13	PASS
				RB12#0	4.63	13	PASS
				RB12#6	4.33	13	PASS
				RB12#13	4.94	13	PASS
				RB25#0	5.33	13	PASS
			MCH	RB1#0	3.97	13	PASS
				RB1#13	3.86	13	PASS
				RB1#24	3.9	13	PASS
				RB12#0	4.99	13	PASS
				RB12#6	4.97	13	PASS
				RB12#13	5.4	13	PASS
				RB25#0	5.75	13	PASS
			HCH	RB1#0	4.01	13	PASS
				RB1#13	3.6	13	PASS
				RB1#24	3.45	13	PASS
				RB12#0	5.17	13	PASS
				RB12#6	4.9	13	PASS
				RB12#13	5.32	13	PASS
				RB25#0	5.53	13	PASS
		10	LCH	RB1#0	3.69	13	PASS
				RB1#25	3.14	13	PASS
				RB1#49	3.21	13	PASS
				RB25#0	4.54	13	PASS
				RB25#13	4.32	13	PASS
				RB25#25	4.67	13	PASS
				RB50#0	5.16	13	PASS
			MCH	RB1#0	3.77	13	PASS
				RB1#25	3.76	13	PASS
				RB1#49	3.75	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.21	13	PASS
				RB25#13	5.12	13	PASS
				RB25#25	5.56	13	PASS
				RB50#0	5.86	13	PASS
			HCH	RB1#0	3.7	13	PASS
				RB1#25	3.73	13	PASS
				RB1#49	3.44	13	PASS
				RB25#0	5.14	13	PASS
				RB25#13	5.09	13	PASS
				RB25#25	5.22	13	PASS
				RB50#0	5.57	13	PASS
		15	LCH	RB1#0	3.86	13	PASS
				RB1#38	3.17	13	PASS
				RB1#74	3.52	13	PASS
				RB36#0	4.78	13	PASS
				RB36#18	4.39	13	PASS
				RB36#39	4.71	13	PASS
				RB75#0	5.33	13	PASS
			MCH	RB1#0	4.35	13	PASS
				RB1#38	4.08	13	PASS
				RB1#74	3.8	13	PASS
				RB36#0	5.44	13	PASS
				RB36#18	5.23	13	PASS
				RB36#39	5.45	13	PASS
				RB75#0	5.83	13	PASS
			HCH	RB1#0	3.8	13	PASS
				RB1#38	4.1	13	PASS
				RB1#74	3.7	13	PASS
				RB36#0	5.43	13	PASS
				RB36#18	5.32	13	PASS
				RB36#39	5.38	13	PASS
				RB75#0	5.75	13	PASS
		20	LCH	RB1#0	3.79	13	PASS
				RB1#50	3.16	13	PASS
				RB1#99	3.61	13	PASS
				RB50#0	4.6	13	PASS
				RB50#25	4.32	13	PASS
				RB50#50	4.76	13	PASS
				RB100#0	5.15	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.43	13	PASS
				RB1#50	4.14	13	PASS
				RB1#99	3.81	13	PASS
				RB50#0	5.37	13	PASS
				RB50#25	5.23	13	PASS
				RB50#50	5.18	13	PASS
				RB100#0	5.68	13	PASS
			HCH	RB1#0	3.85	13	PASS
				RB1#50	3.99	13	PASS
				RB1#99	4.13	13	PASS
				RB50#0	4.92	13	PASS
				RB50#25	5.11	13	PASS
				RB50#50	5.24	13	PASS
				RB100#0	5.55	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.67	13	PASS
				RB1#13	4.29	13	PASS
				RB1#24	4.21	13	PASS
				RB12#0	4.81	13	PASS
				RB12#6	4.59	13	PASS
				RB12#13	5.17	13	PASS
				RB25#0	5.64	13	PASS
			MCH	RB1#0	4.56	13	PASS
				RB1#13	4.47	13	PASS
				RB1#24	4.48	13	PASS
				RB12#0	5.27	13	PASS
				RB12#6	5.11	13	PASS
				RB12#13	5.72	13	PASS
				RB25#0	6.2	13	PASS
			HCH	RB1#0	4.96	13	PASS
				RB1#13	4.68	13	PASS
				RB1#24	4.45	13	PASS
				RB12#0	5.25	13	PASS
				RB12#6	5.04	13	PASS
				RB12#13	5.43	13	PASS
				RB25#0	5.97	13	PASS
		10	LCH	RB1#0	4.51	13	PASS
				RB1#25	4.04	13	PASS
				RB1#49	4.11	13	PASS
				RB25#0	4.79	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	4.52	13	PASS
				RB25#25	4.91	13	PASS
				RB50#0	5.58	13	PASS
			MCH	RB1#0	5.02	13	PASS
				RB1#25	4.95	13	PASS
				RB1#49	4.87	13	PASS
				RB25#0	5.5	13	PASS
				RB25#13	5.42	13	PASS
				RB25#25	5.85	13	PASS
				RB50#0	6.34	13	PASS
			HCH	RB1#0	4.64	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.26	13	PASS
				RB25#0	5.5	13	PASS
				RB25#13	5.42	13	PASS
				RB25#25	5.6	13	PASS
				RB50#0	6.2	13	PASS
		15	LCH	RB1#0	4.77	13	PASS
				RB1#38	4.04	13	PASS
				RB1#74	4.32	13	PASS
				RB36#0	4.98	13	PASS
				RB36#18	4.52	13	PASS
				RB36#39	4.85	13	PASS
				RB75#0	5.68	13	PASS
			MCH	RB1#0	5.25	13	PASS
				RB1#38	5.07	13	PASS
				RB1#74	4.78	13	PASS
				RB36#0	5.7	13	PASS
				RB36#18	5.49	13	PASS
				RB36#39	5.7	13	PASS
				RB75#0	6.5	13	PASS
			HCH	RB1#0	4.59	13	PASS
				RB1#38	4.71	13	PASS
				RB1#74	4.73	13	PASS
				RB36#0	5.66	13	PASS
				RB36#18	5.64	13	PASS
				RB36#39	5.75	13	PASS
				RB75#0	6.08	13	PASS
		20	LCH	RB1#0	4.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	3.87	13	PASS
				RB1#99	4.62	13	PASS
				RB50#0	4.91	13	PASS
				RB50#25	4.59	13	PASS
				RB50#50	5.01	13	PASS
				RB100#0	5.61	13	PASS
			MCH	RB1#0	5.04	13	PASS
				RB1#50	4.78	13	PASS
				RB1#99	4.35	13	PASS
				RB50#0	5.83	13	PASS
				RB50#25	5.63	13	PASS
				RB50#50	5.6	13	PASS
				RB100#0	6.18	13	PASS
			HCH	RB1#0	4.26	13	PASS
				RB1#50	4.76	13	PASS
				RB1#99	4.61	13	PASS
				RB50#0	5.19	13	PASS
				RB50#25	5.47	13	PASS
				RB50#50	5.55	13	PASS
				RB100#0	5.93	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

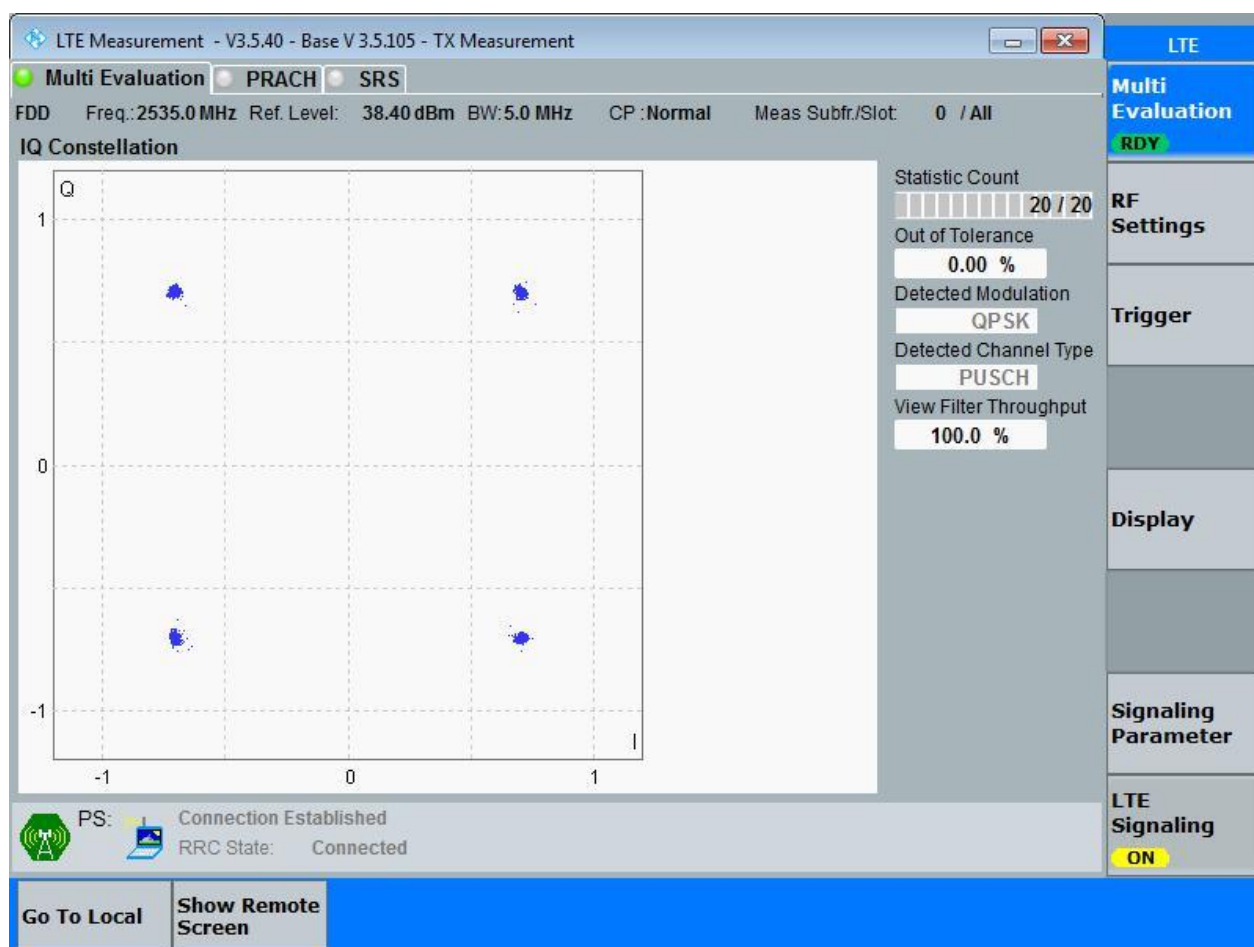
3.1.1 Test Band = BAND7

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

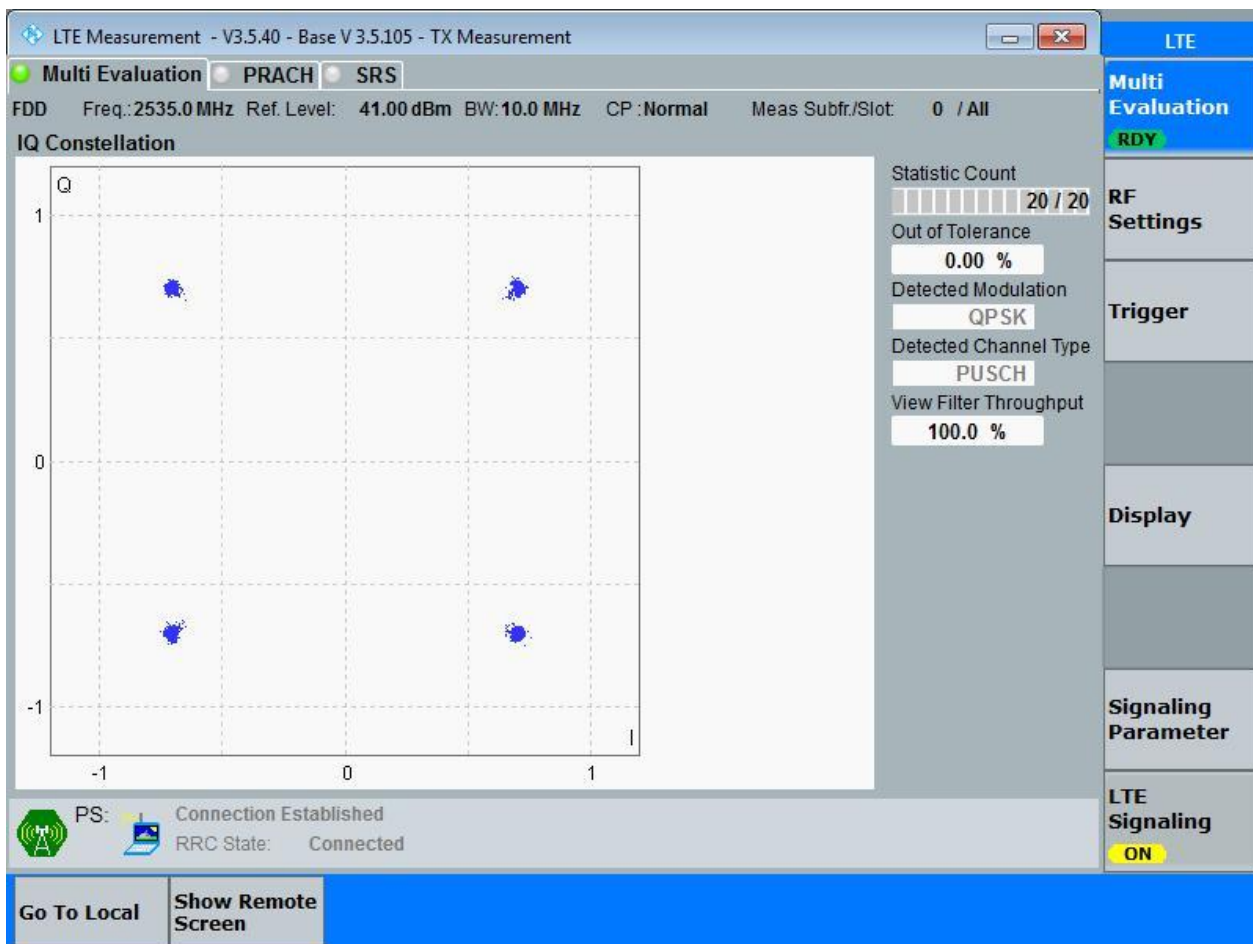
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

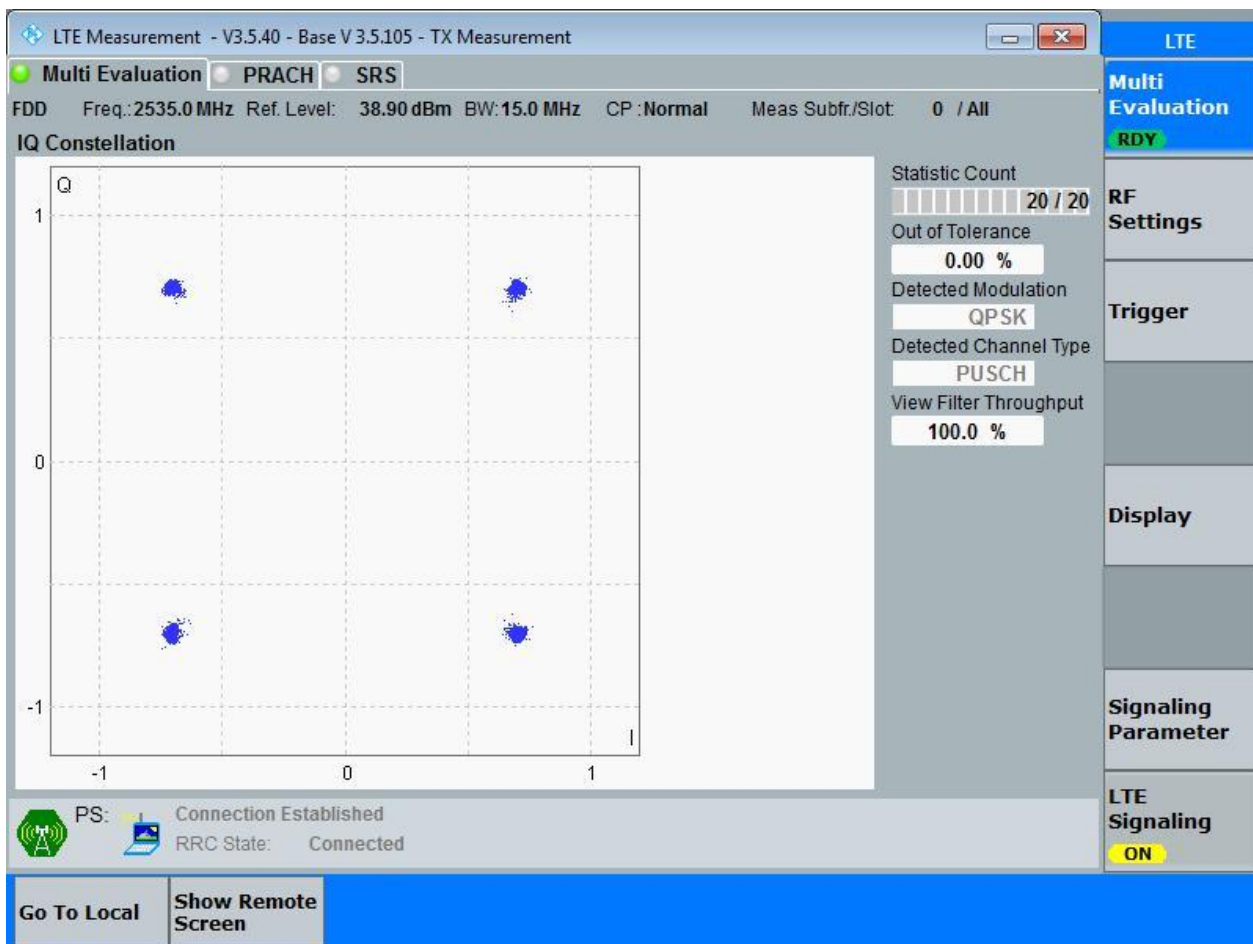
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

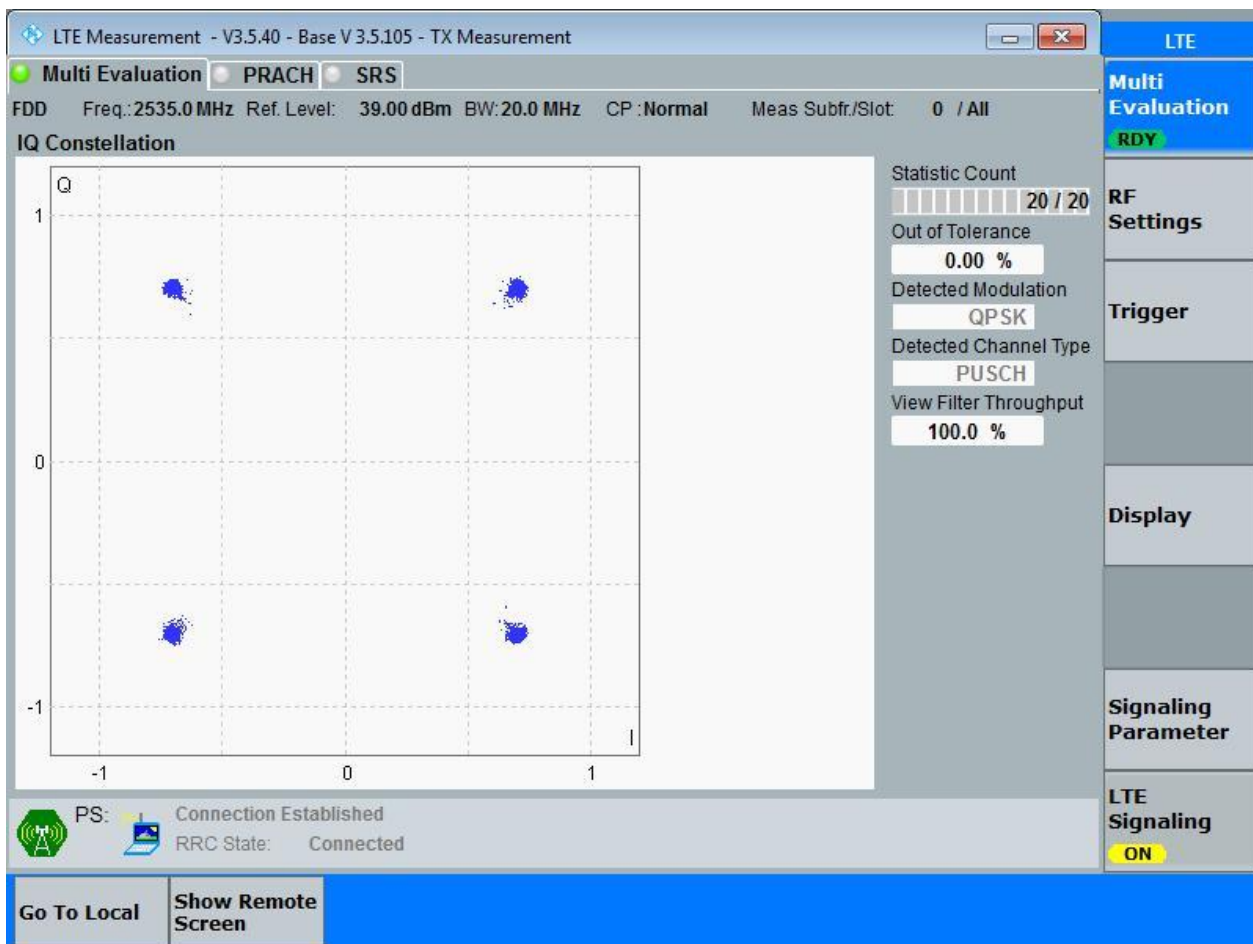
3.1.1.1.3.1.1 Test RB = RB75#0



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

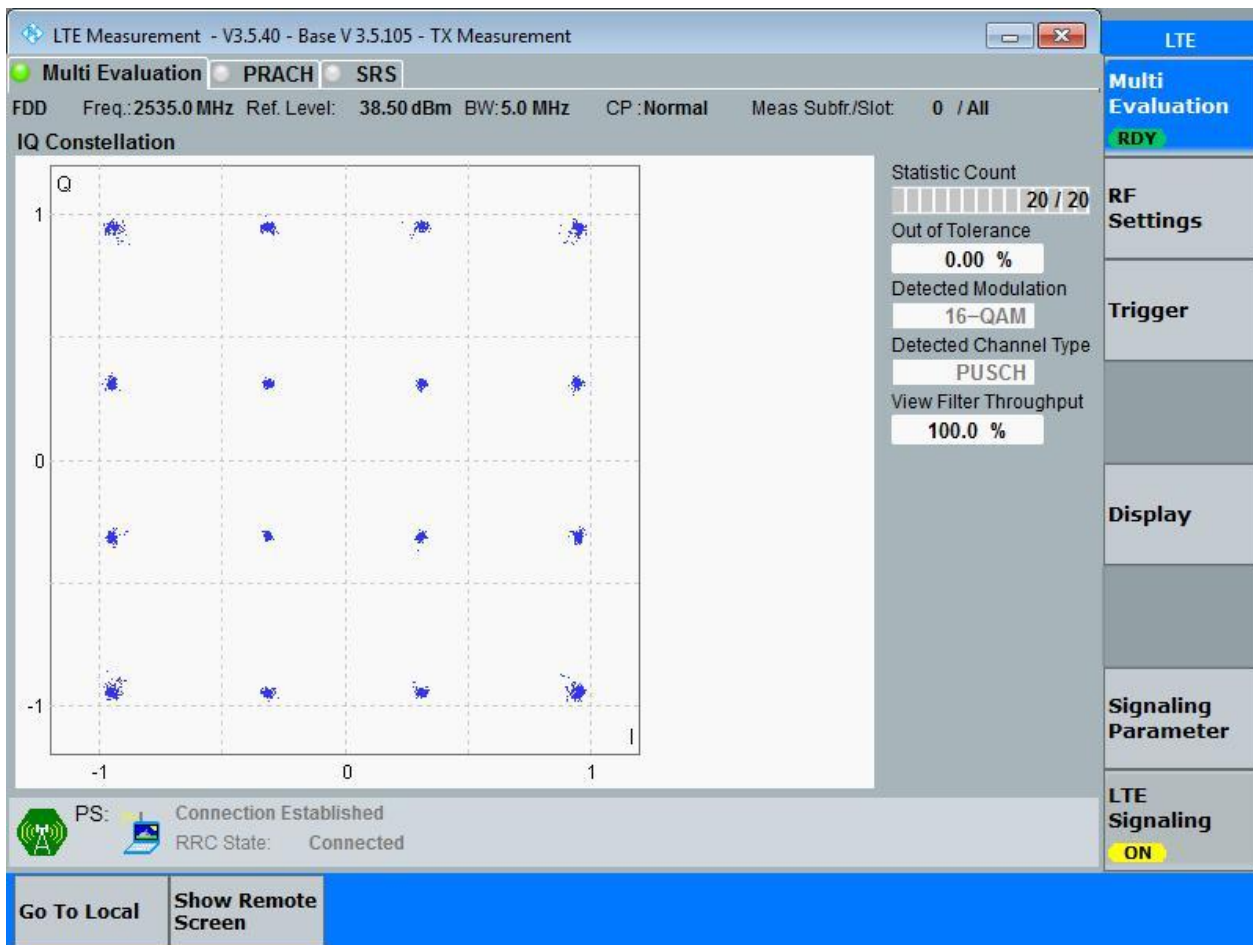


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

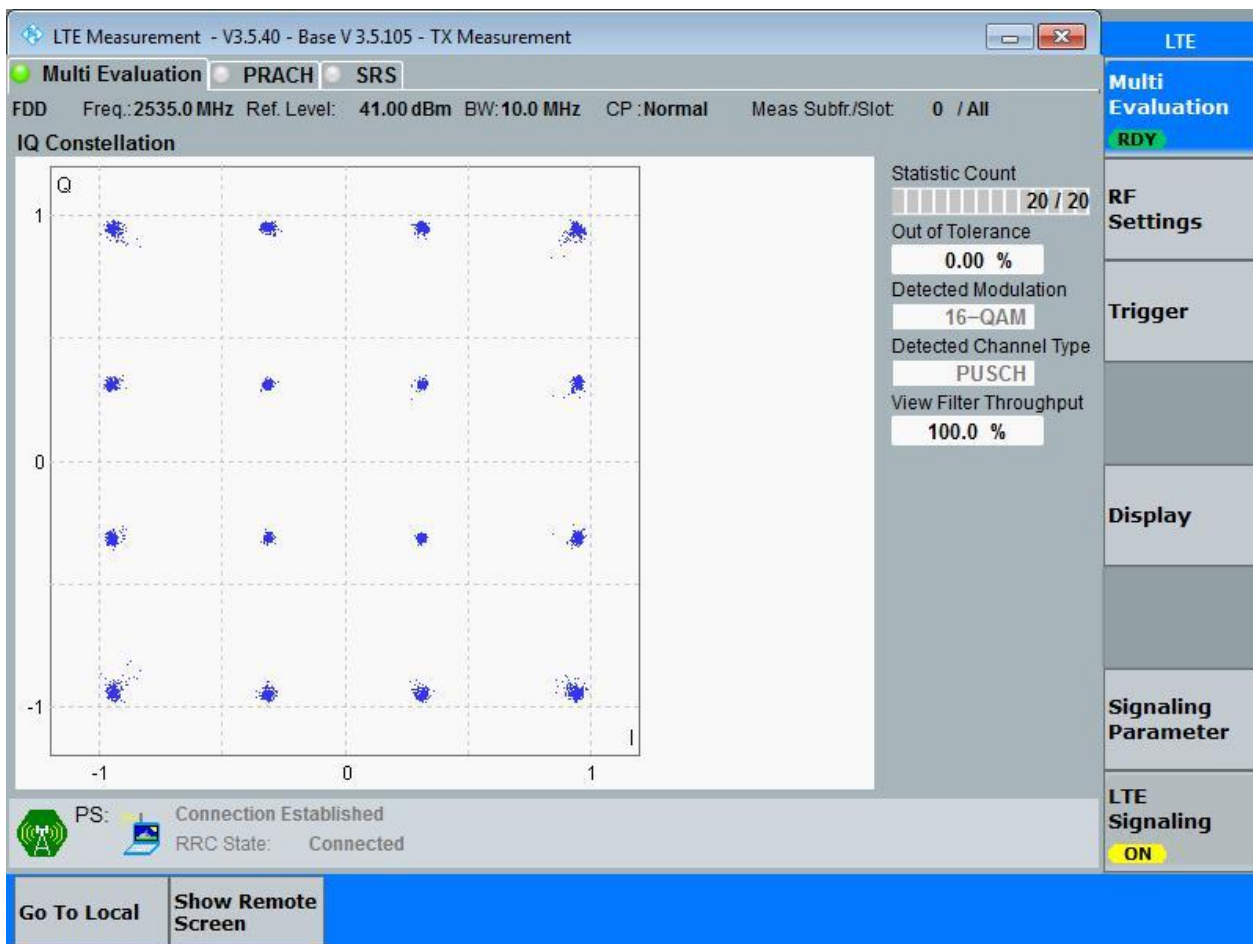
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

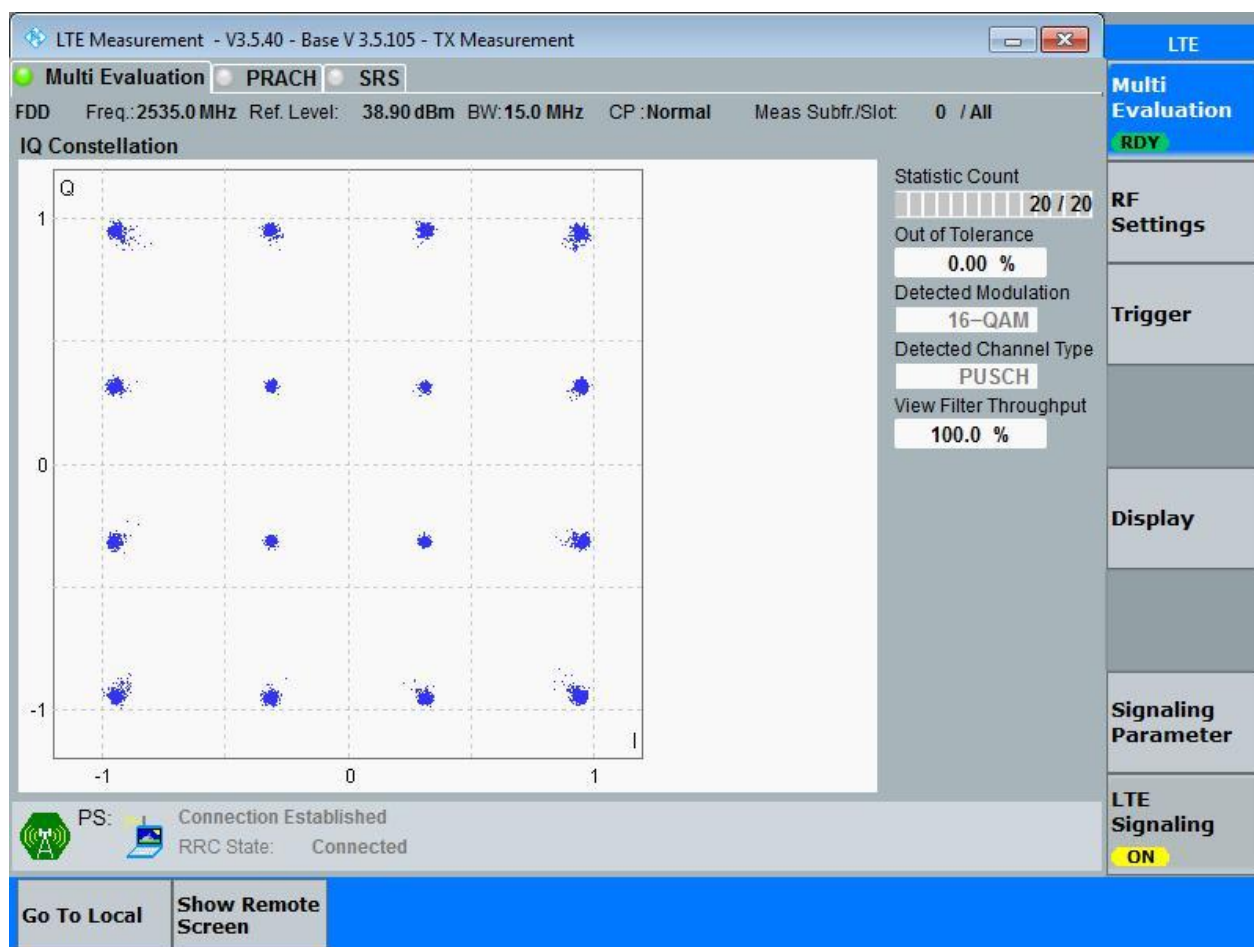
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

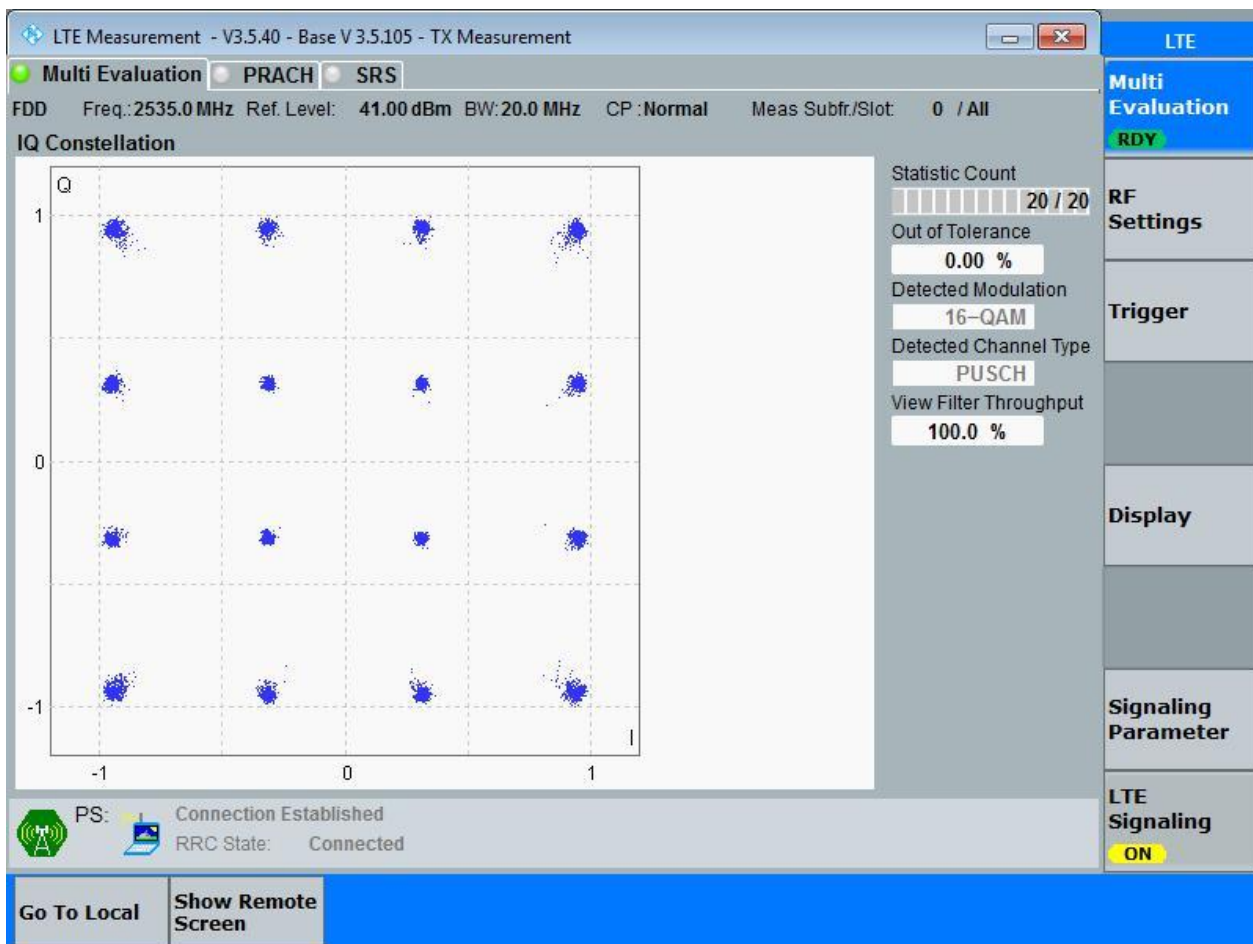
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.94	Pass
			HCH	RB25#0	4.51	4.98	Pass
		10	LCH	RB50#0	8.98	9.89	Pass
			MCH	RB50#0	8.98	9.90	Pass
			HCH	RB50#0	9.00	9.89	Pass
		15	LCH	RB75#0	13.45	14.96	Pass
			MCH	RB75#0	13.51	15.06	Pass
			HCH	RB75#0	13.52	15.17	Pass
		20	LCH	RB100#0	17.97	19.83	Pass
			MCH	RB100#0	17.98	19.77	Pass
			HCH	RB100#0	18.01	19.84	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	4.99	Pass
			MCH	RB25#0	4.51	4.97	Pass
			HCH	RB25#0	4.51	4.97	Pass
		10	LCH	RB50#0	9.04	10.00	Pass
			MCH	RB50#0	9.00	9.95	Pass
			HCH	RB50#0	9.02	9.94	Pass
		15	LCH	RB75#0	13.46	15.04	Pass
			MCH	RB75#0	13.51	15.11	Pass
			HCH	RB75#0	13.52	14.99	Pass
		20	LCH	RB100#0	17.96	19.72	Pass
			MCH	RB100#0	18.02	19.95	Pass
			HCH	RB100#0	18.00	20.42	Pass



Part II - Test Plots

4.1 For LTE

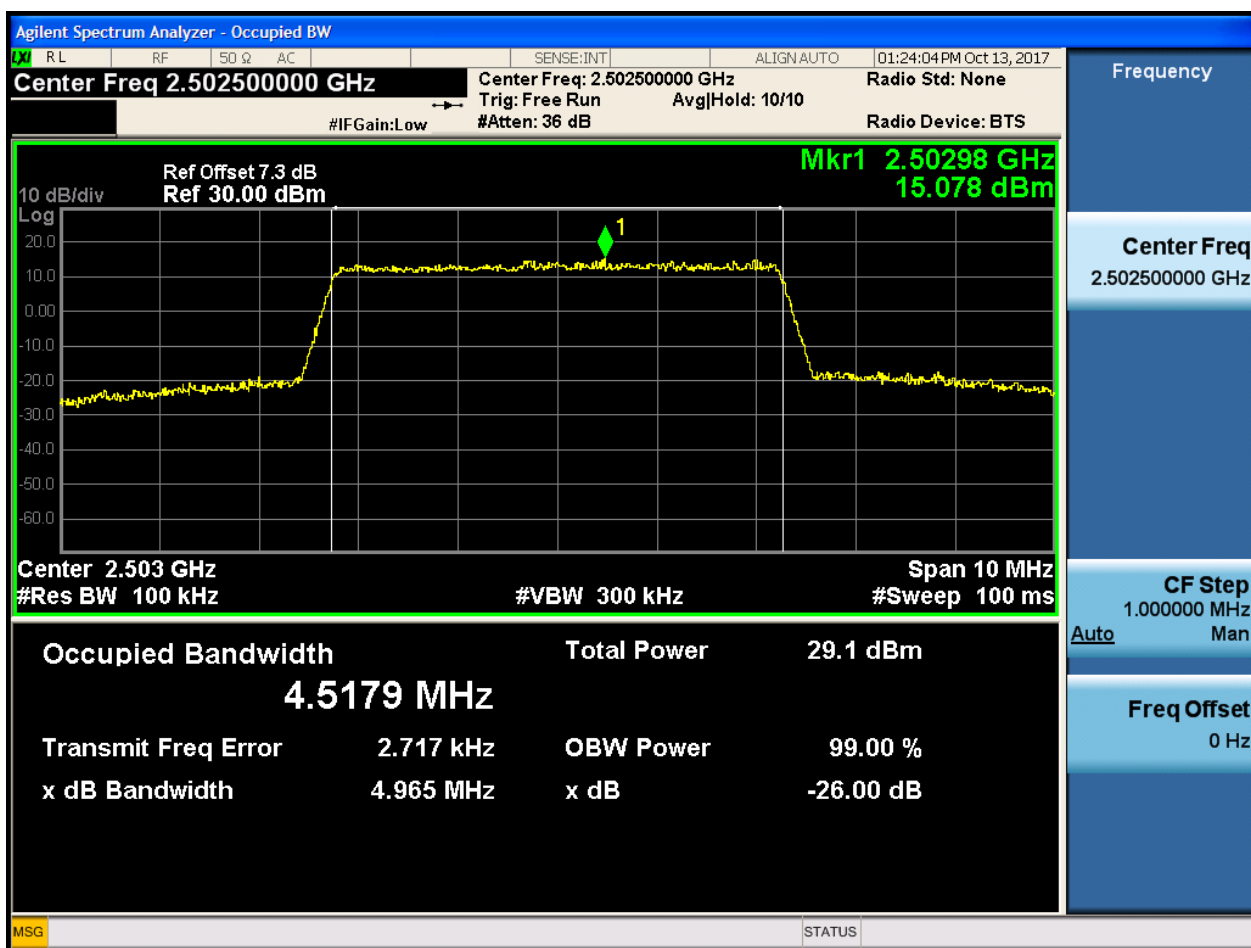
4.1.1 Test Band = BAND7

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

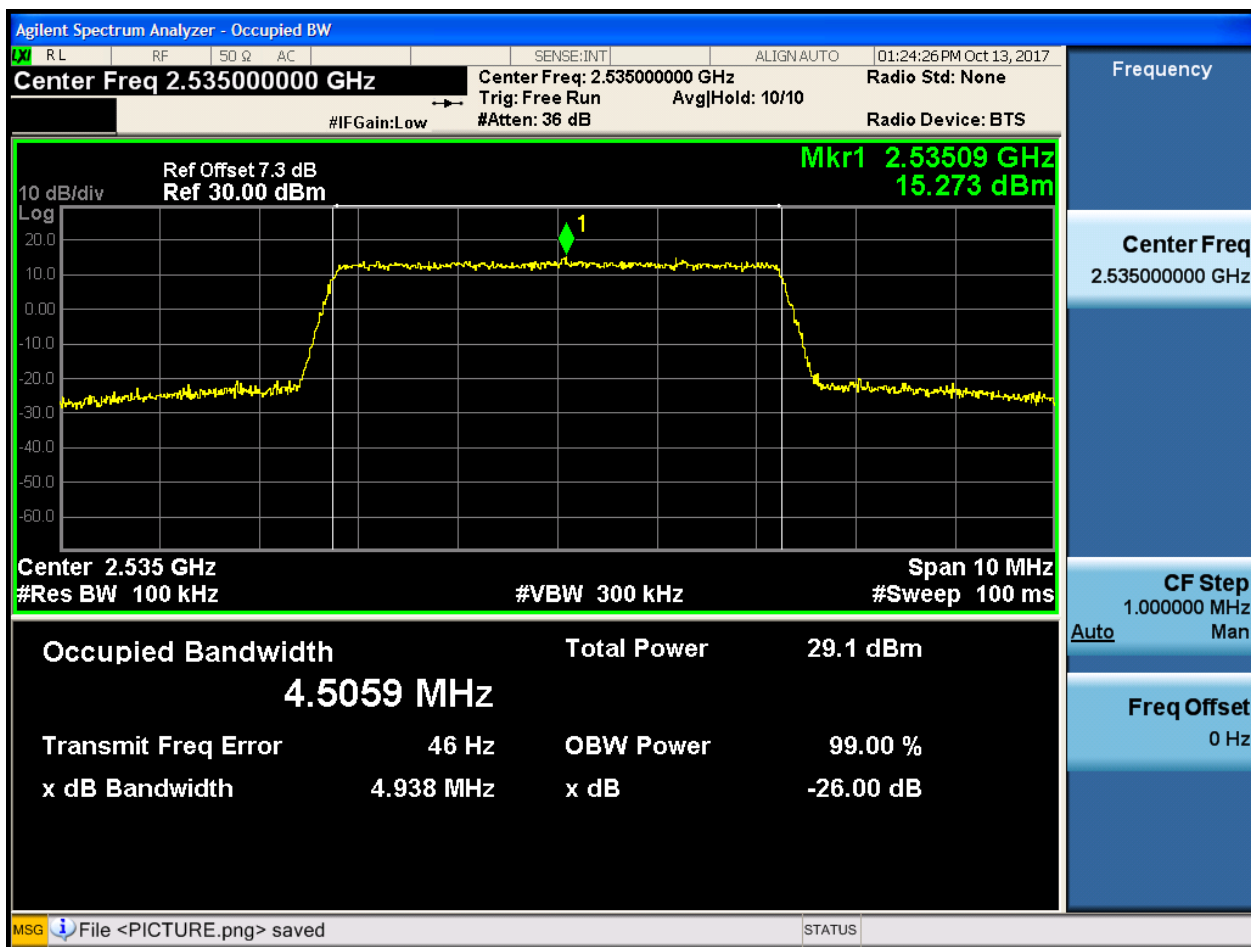
4.1.1.1.1.1.1 Test RB = RB25#0





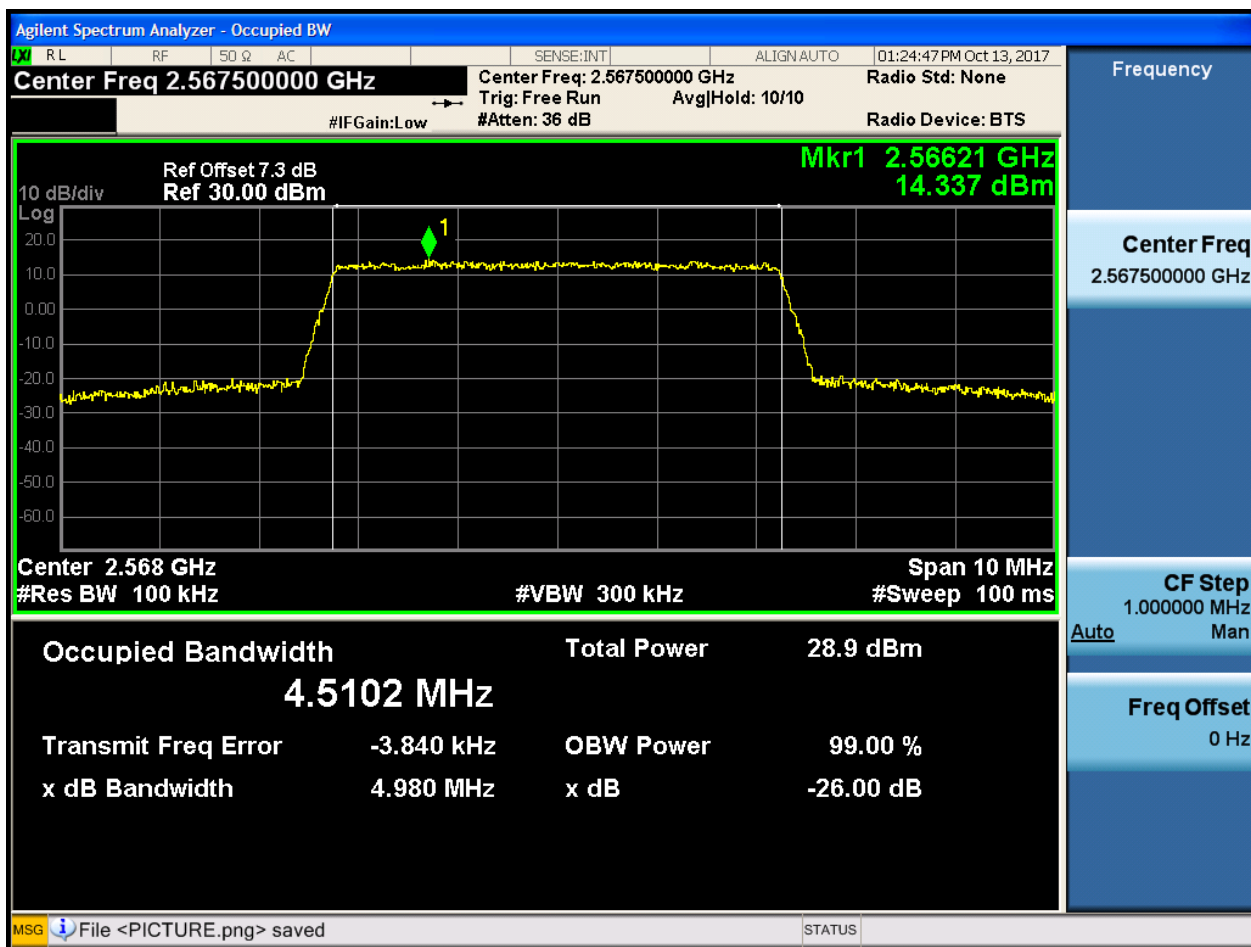
4.1.1.1.1.2 Test Channel = MCH

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

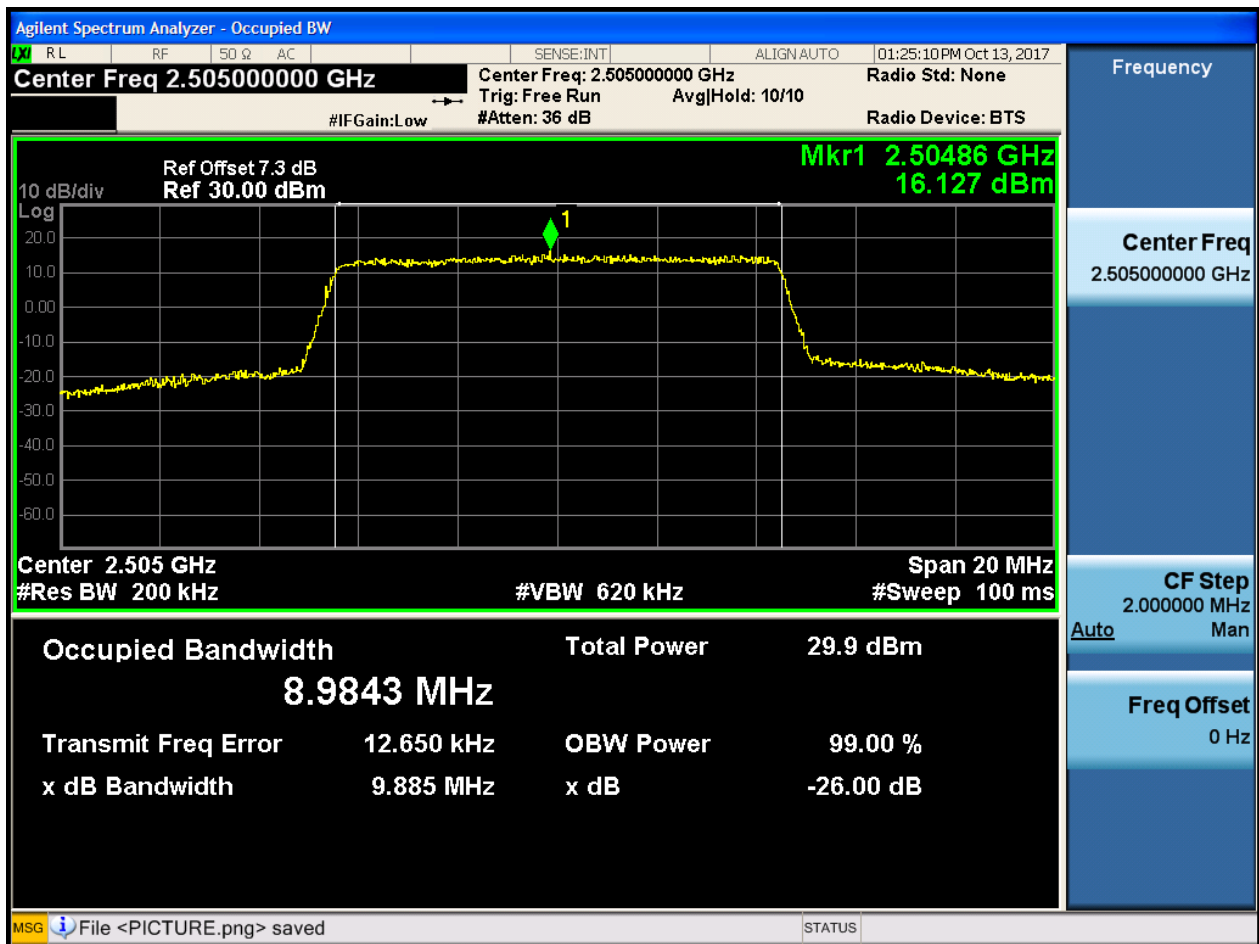




4.1.1.1.2 Test Bandwidth = 10

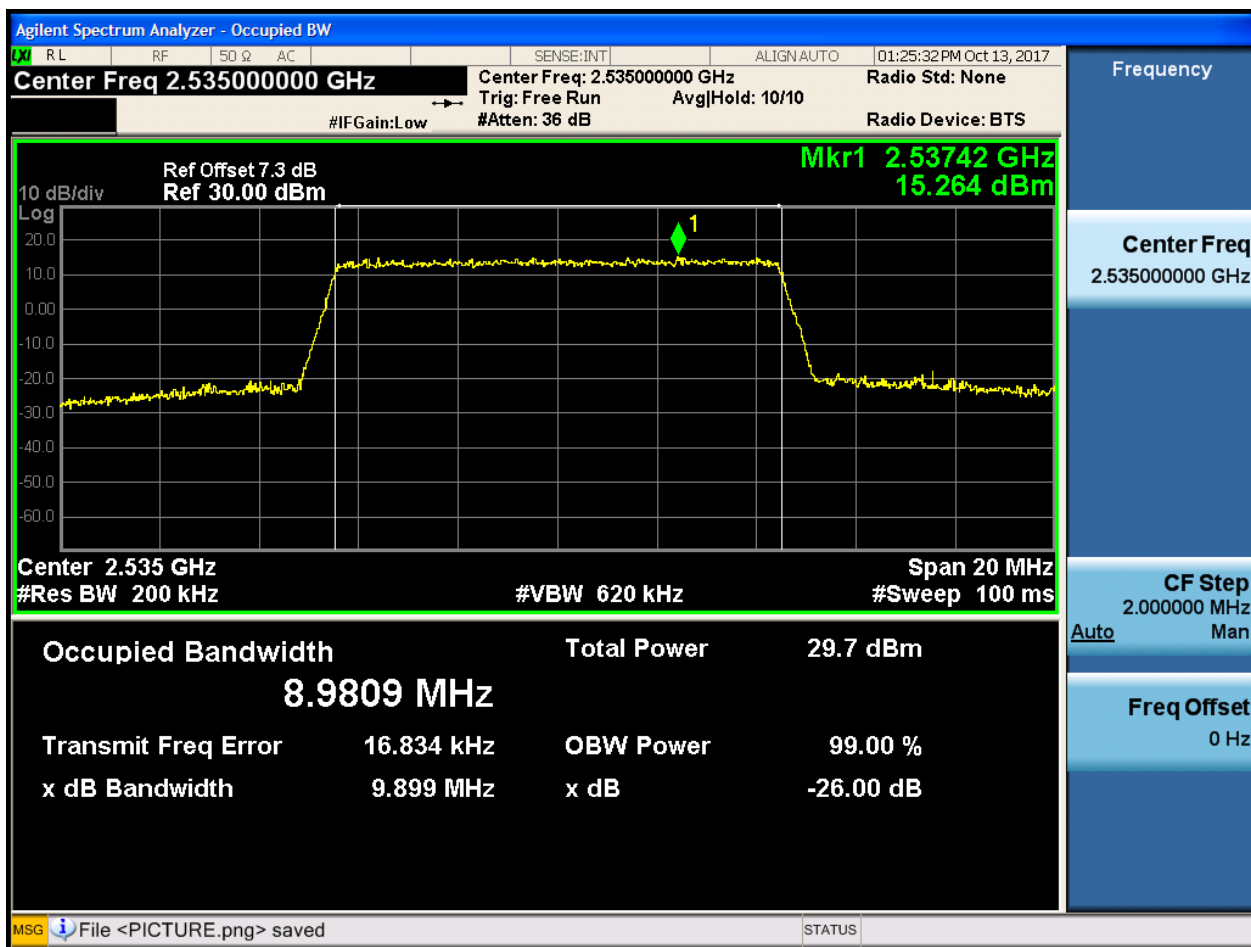
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



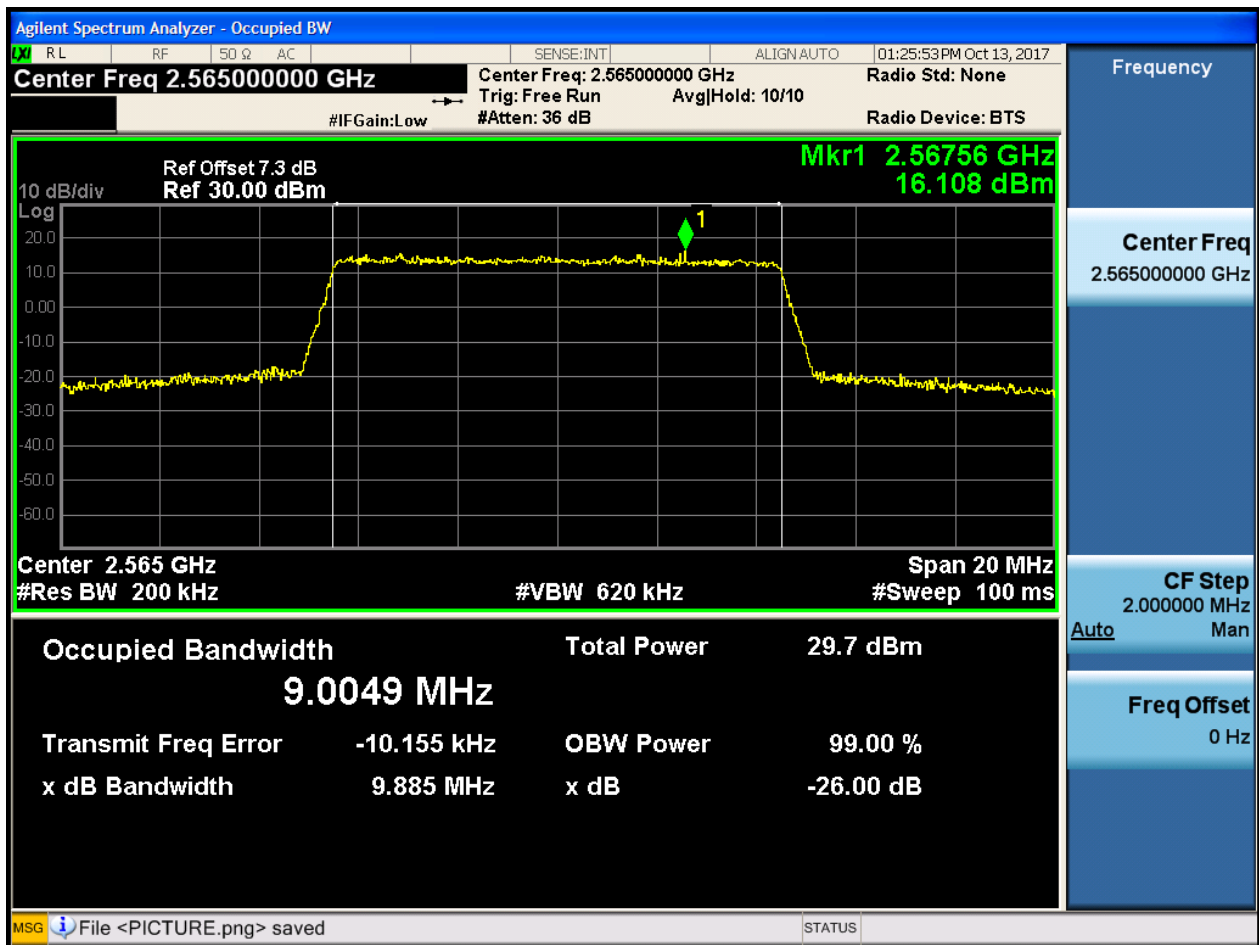
4.1.1.1.2.2 Test Channel = MCH

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

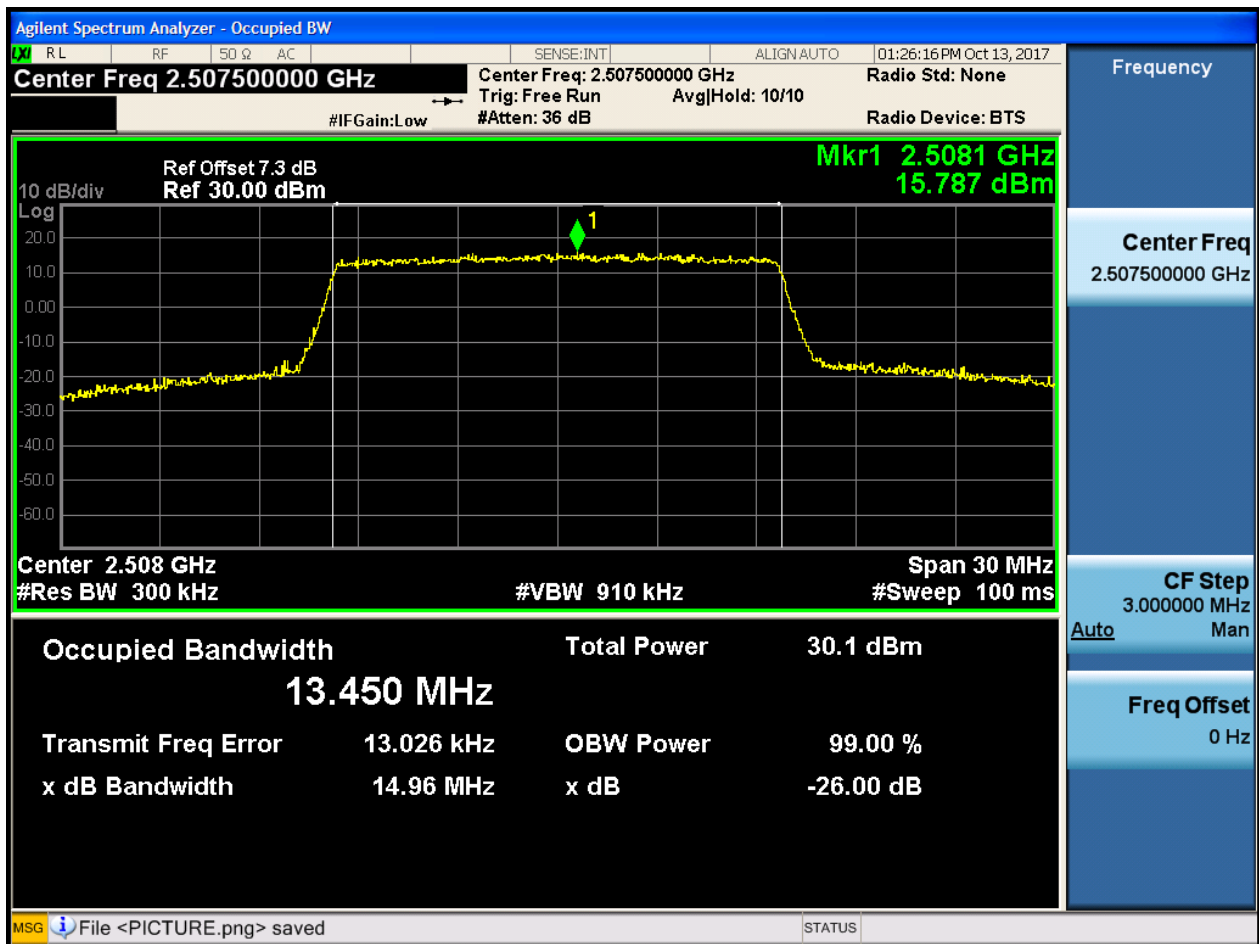




4.1.1.1.3 Test Bandwidth = 15

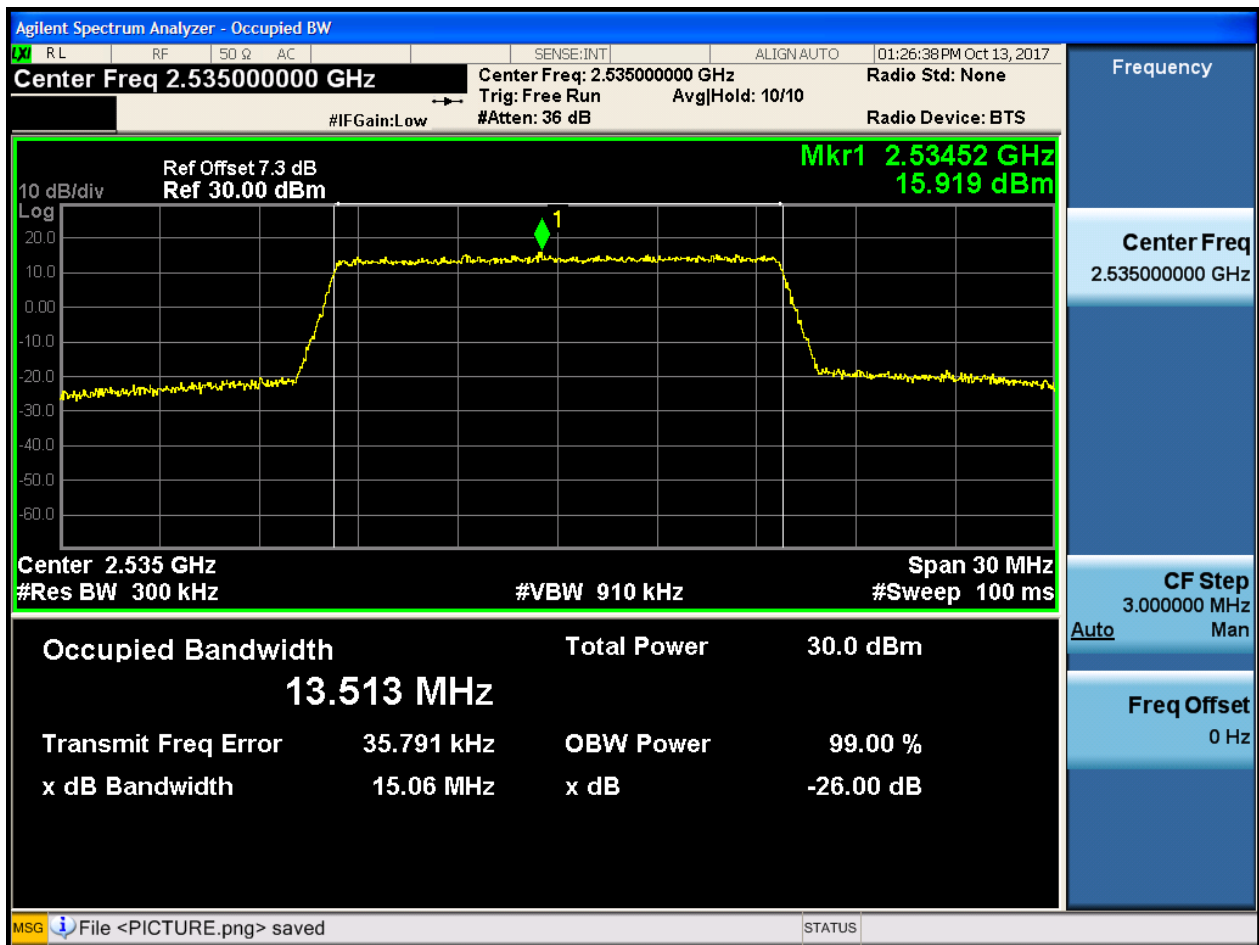
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



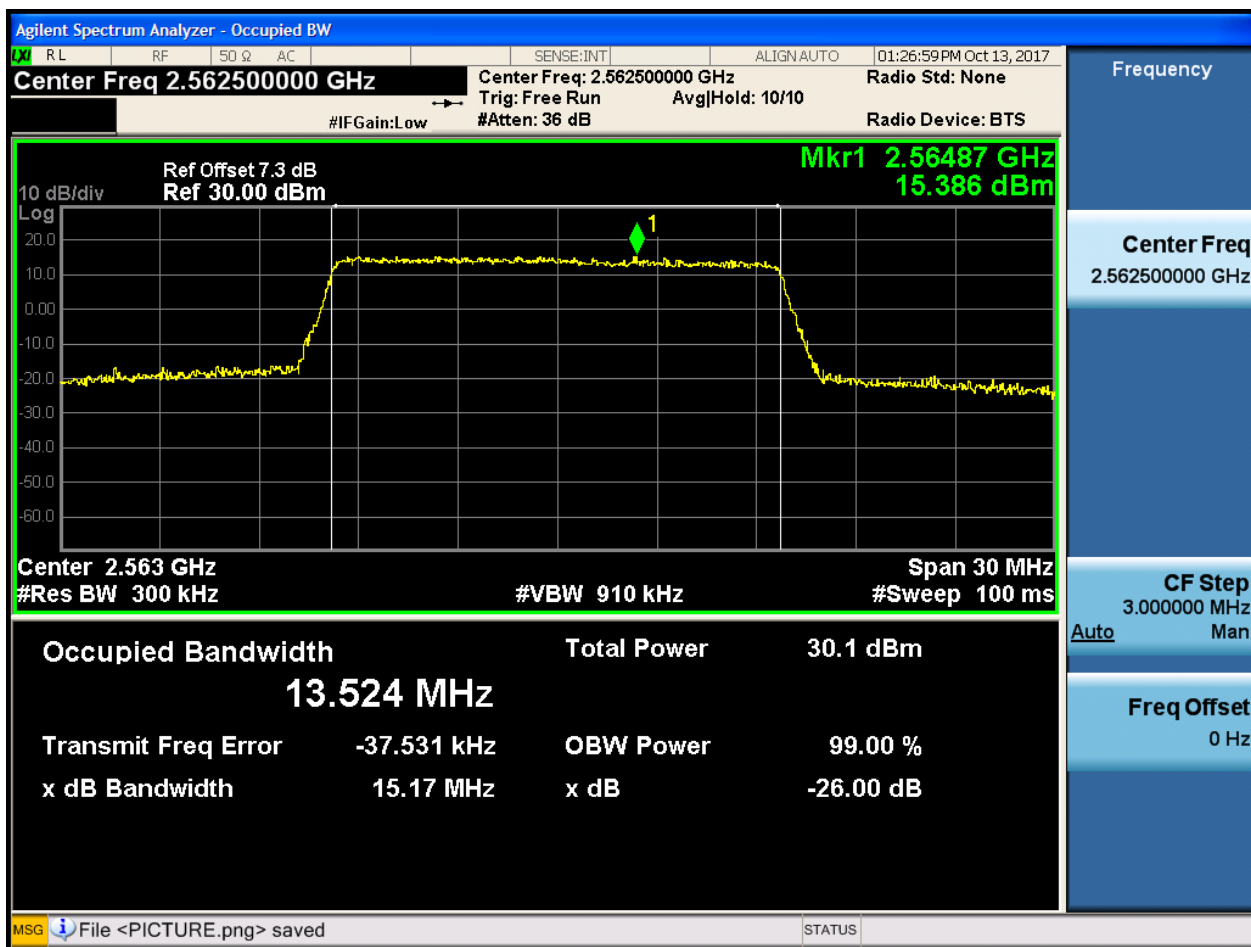
4.1.1.1.3.2 Test Channel = MCH

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

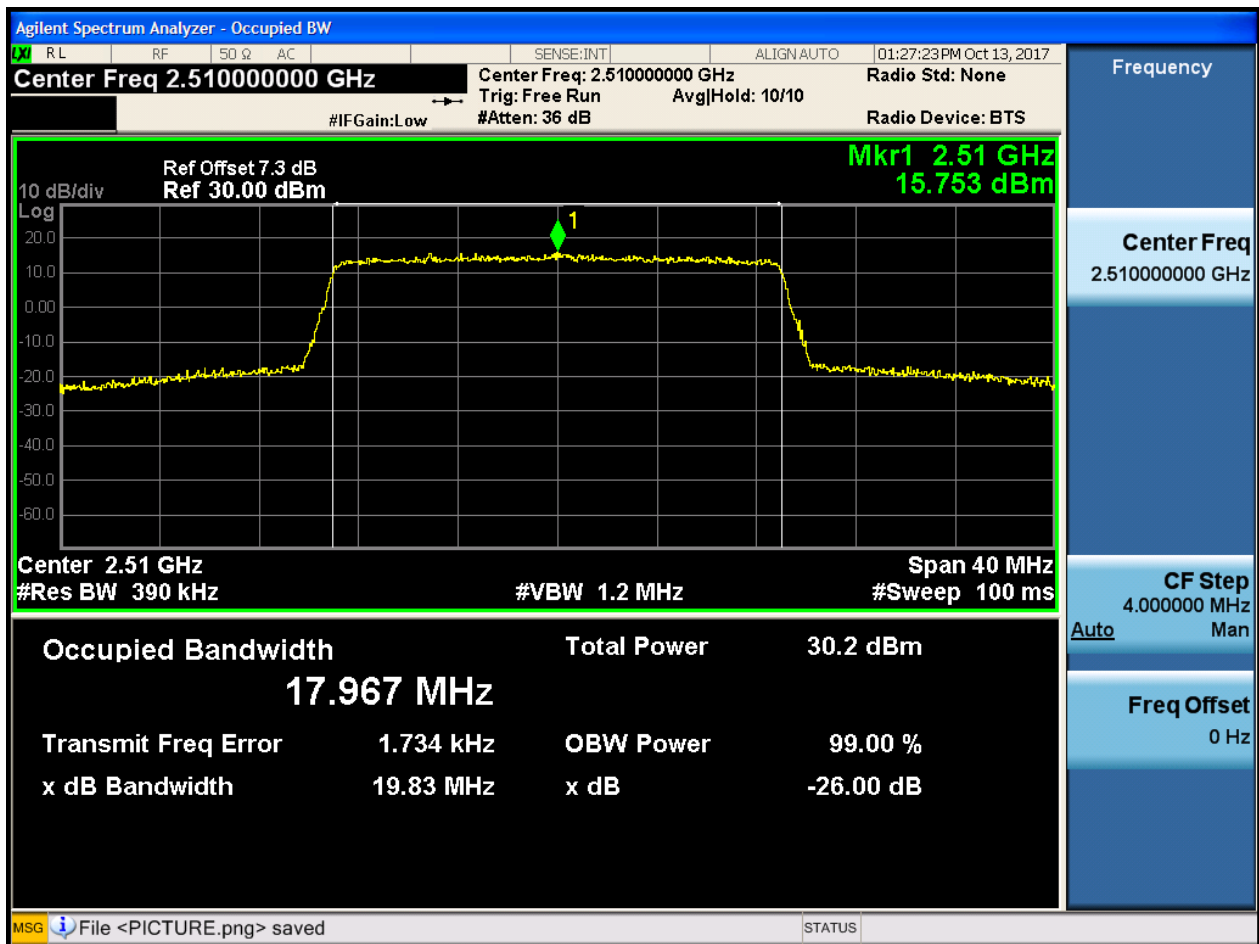




4.1.1.1.4 Test Bandwidth = 20

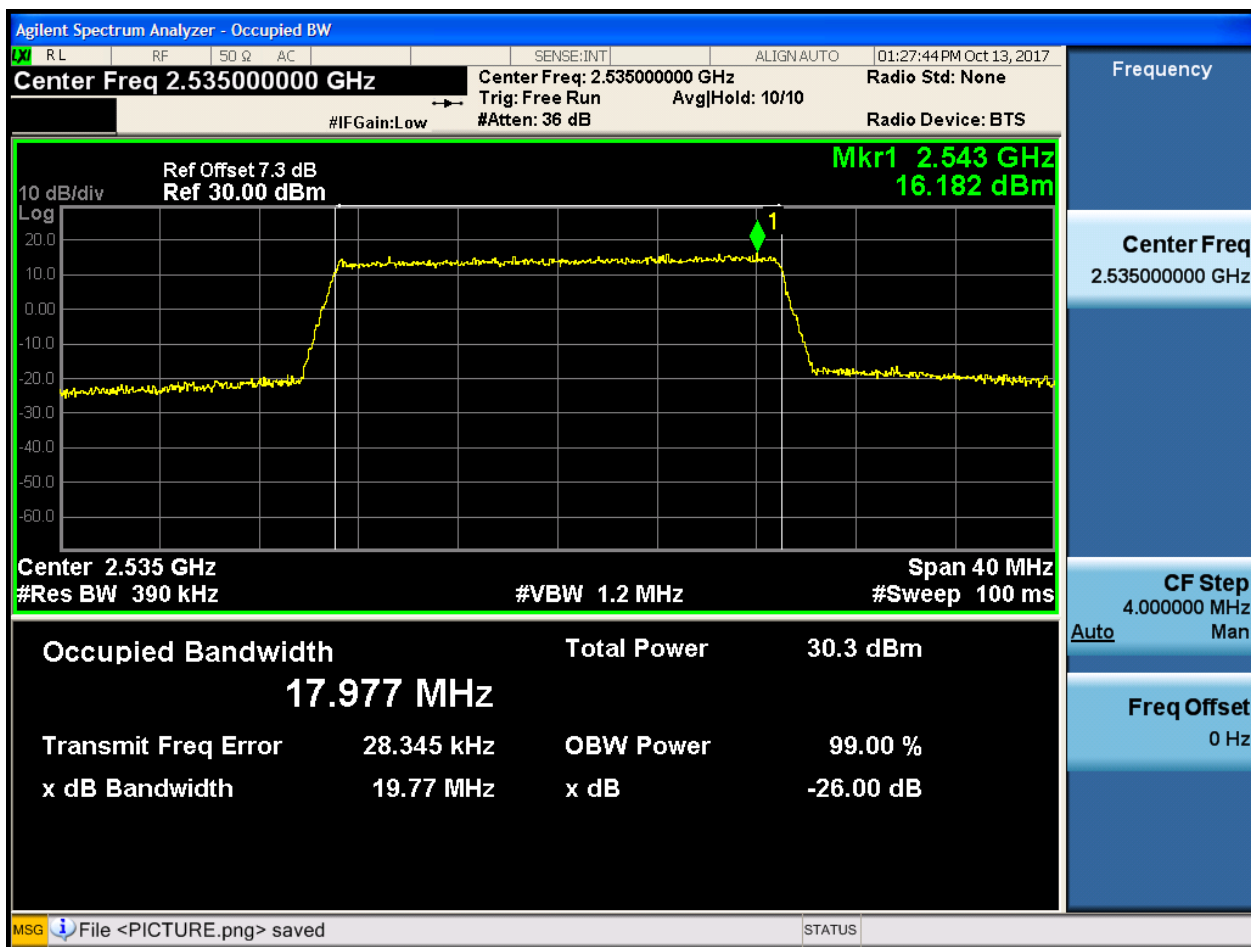
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



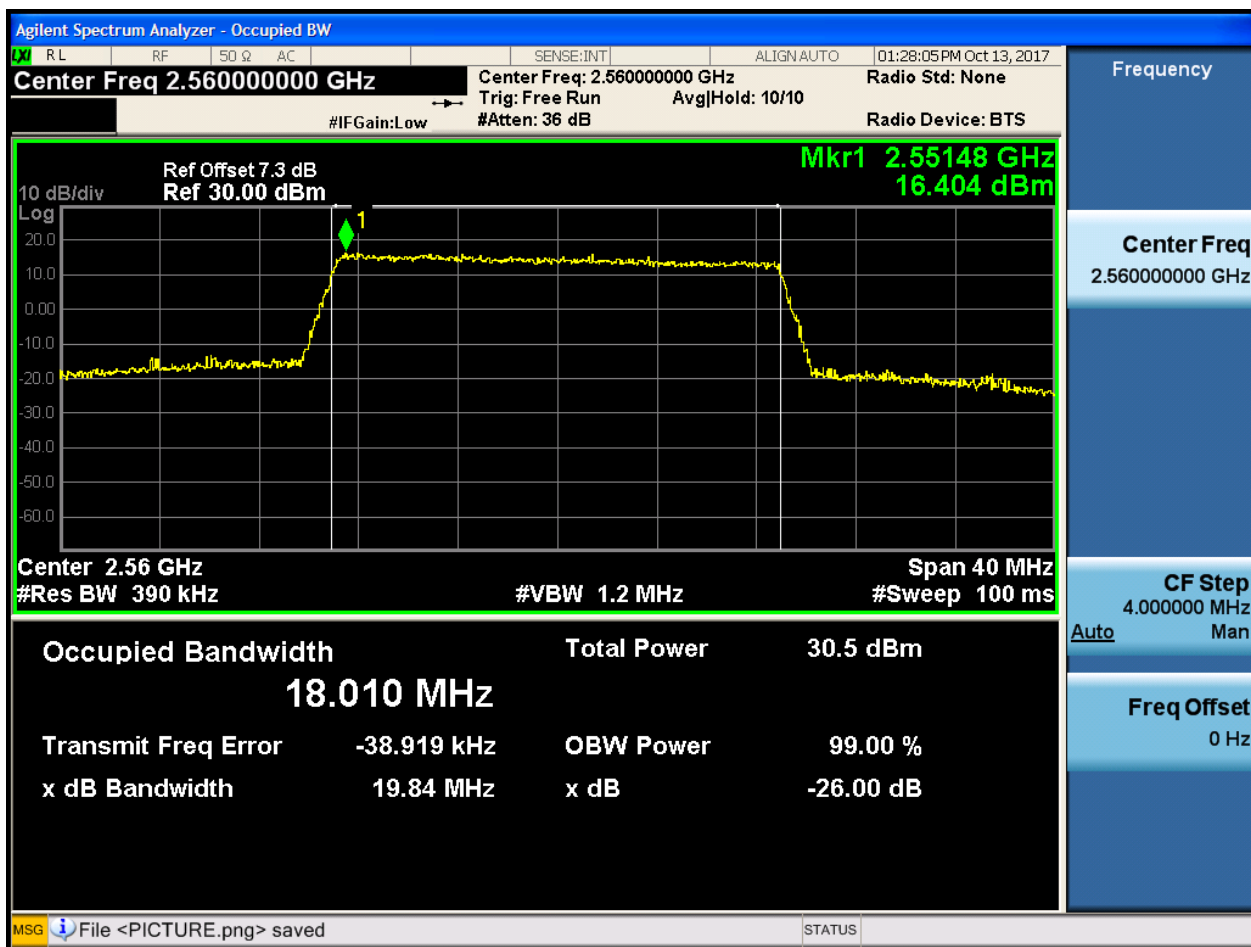
4.1.1.1.4.2 Test Channel = MCH

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



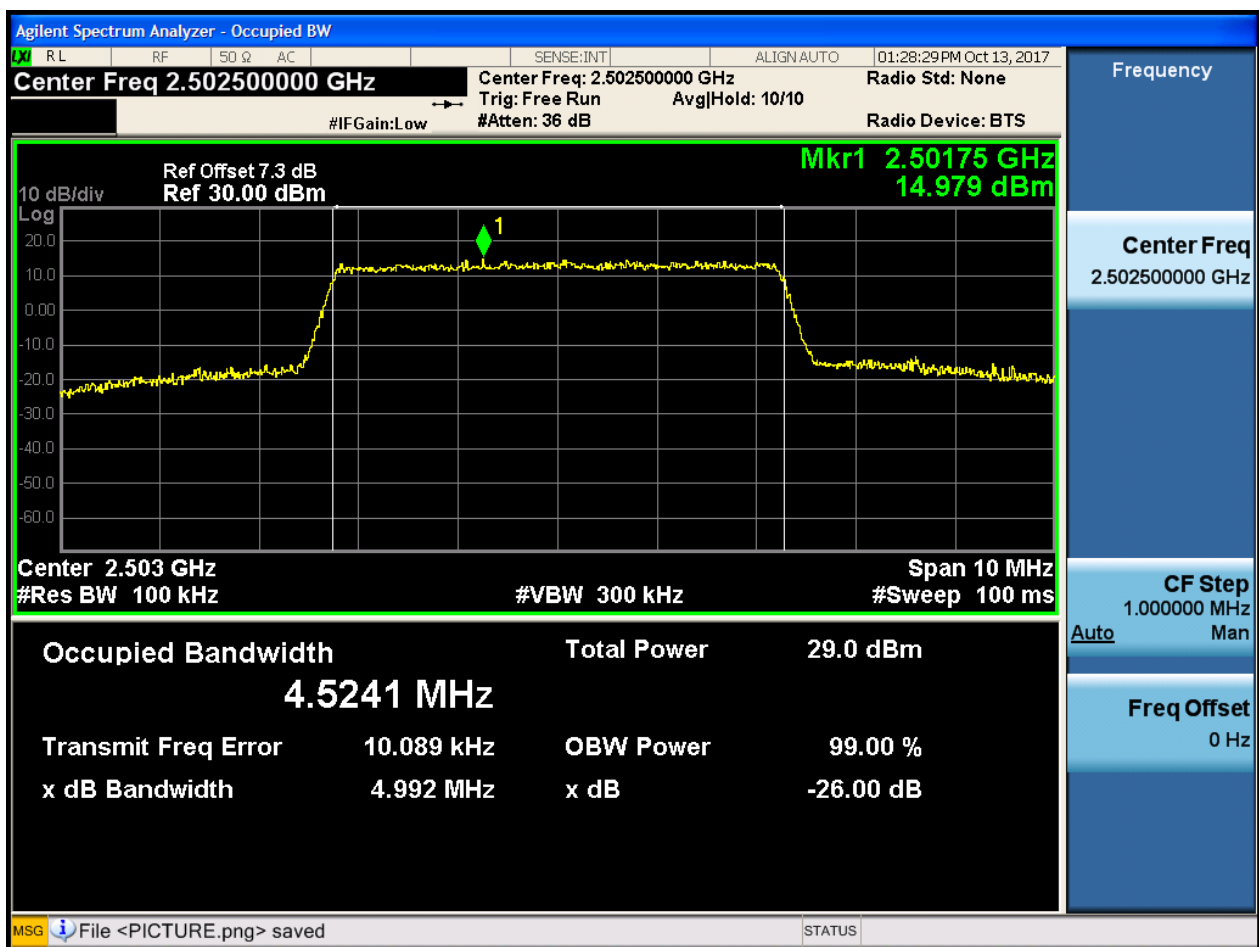


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

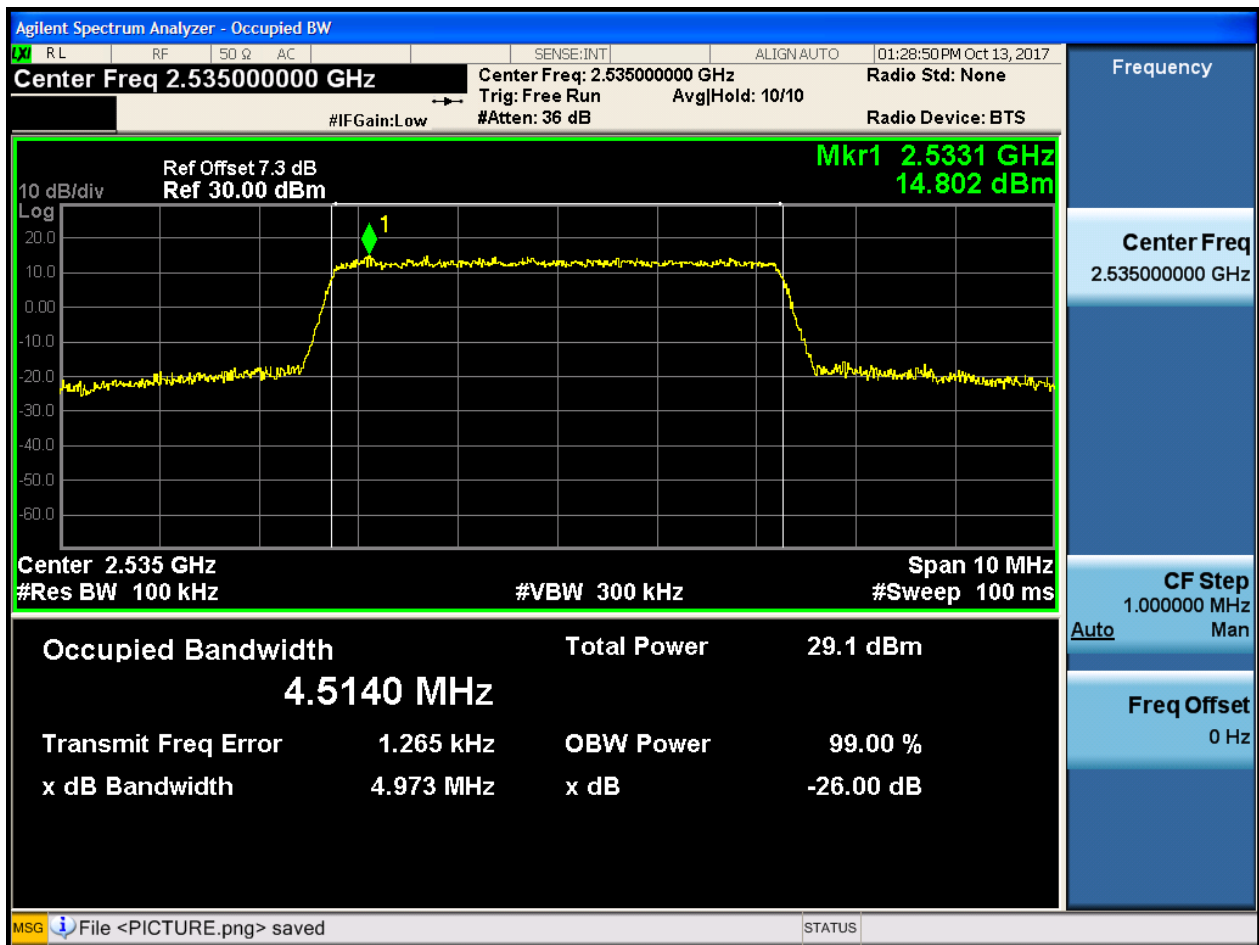
4.1.1.2.1.1.1 Test RB = RB25#0





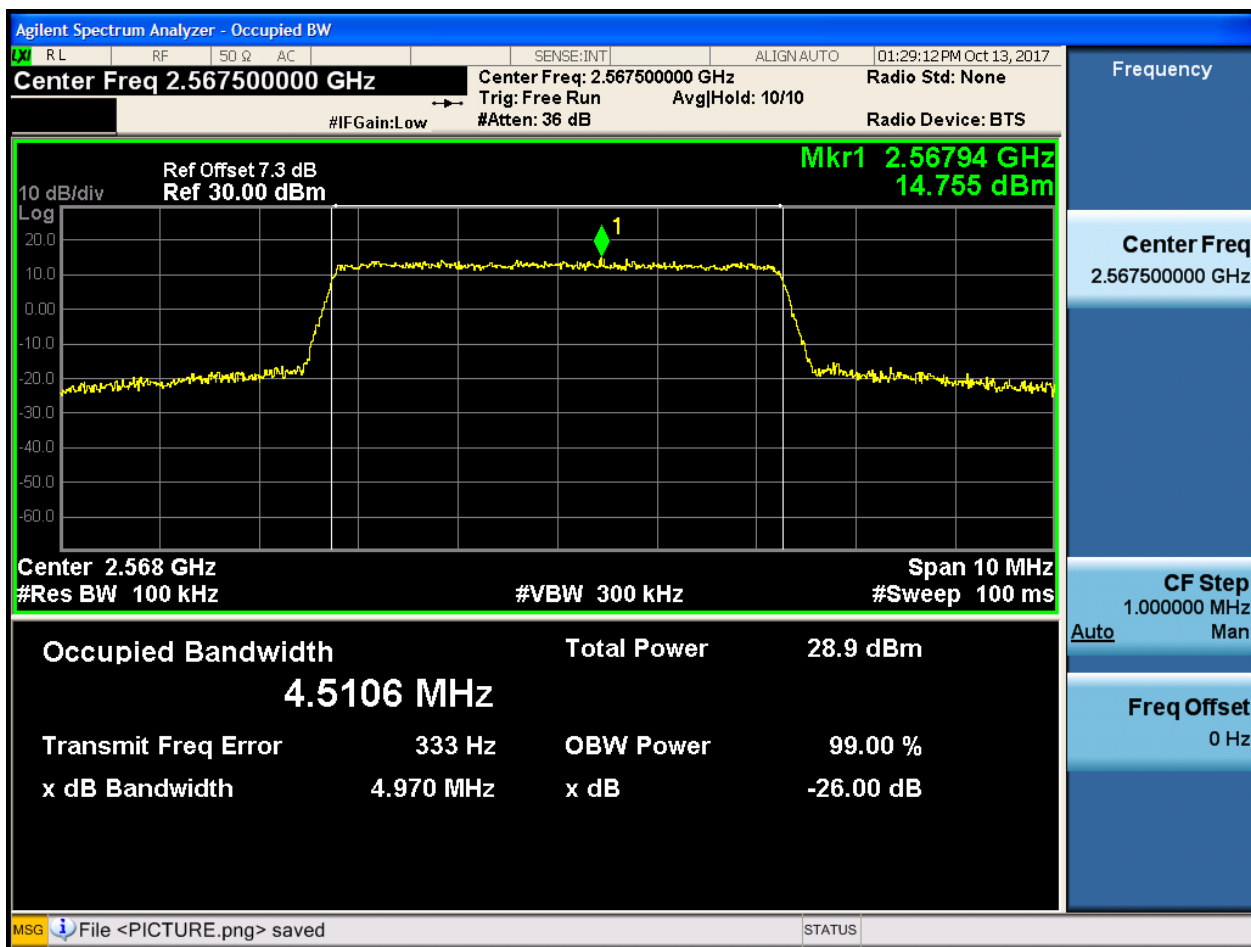
4.1.1.2.1.2 Test Channel = MCH

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

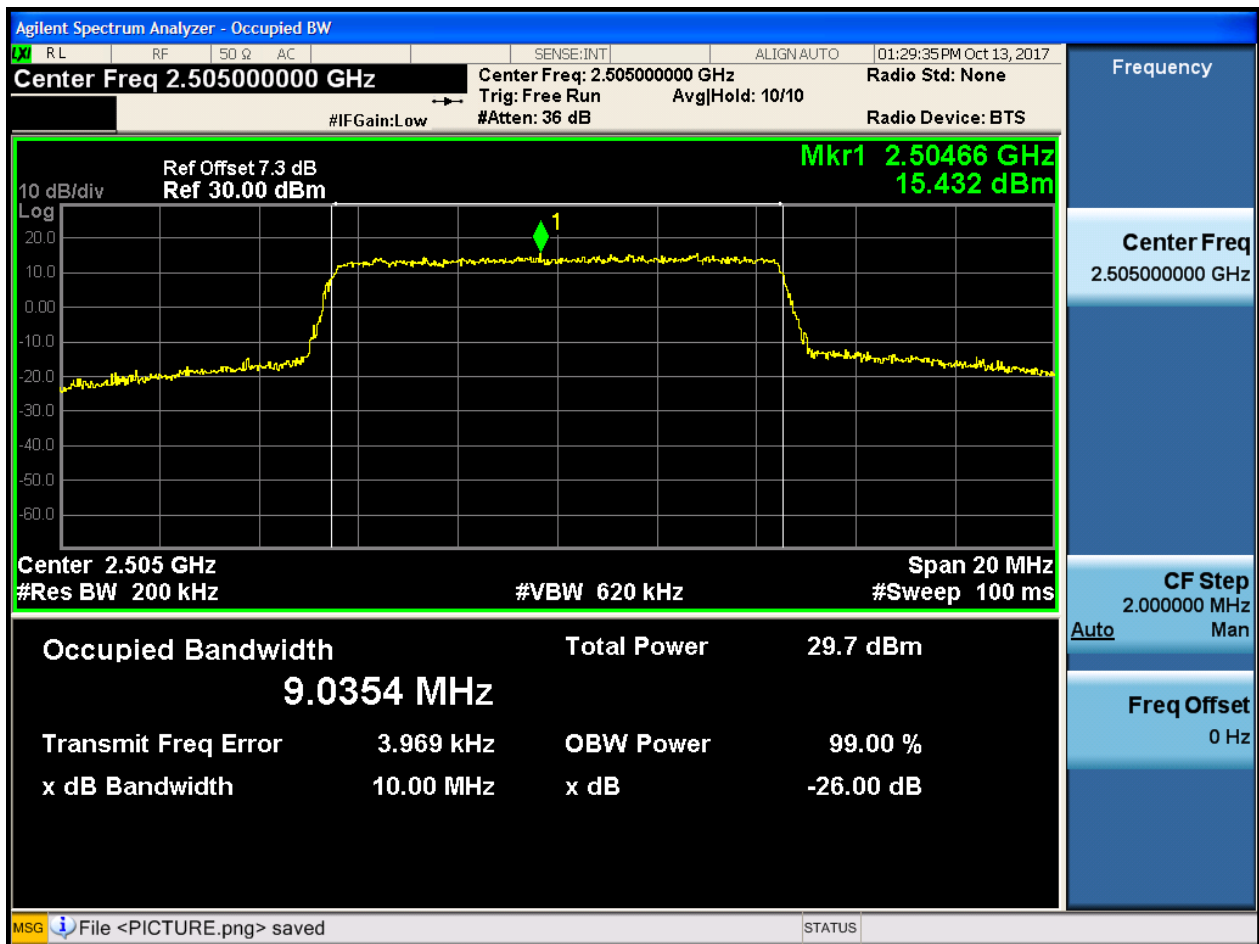




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

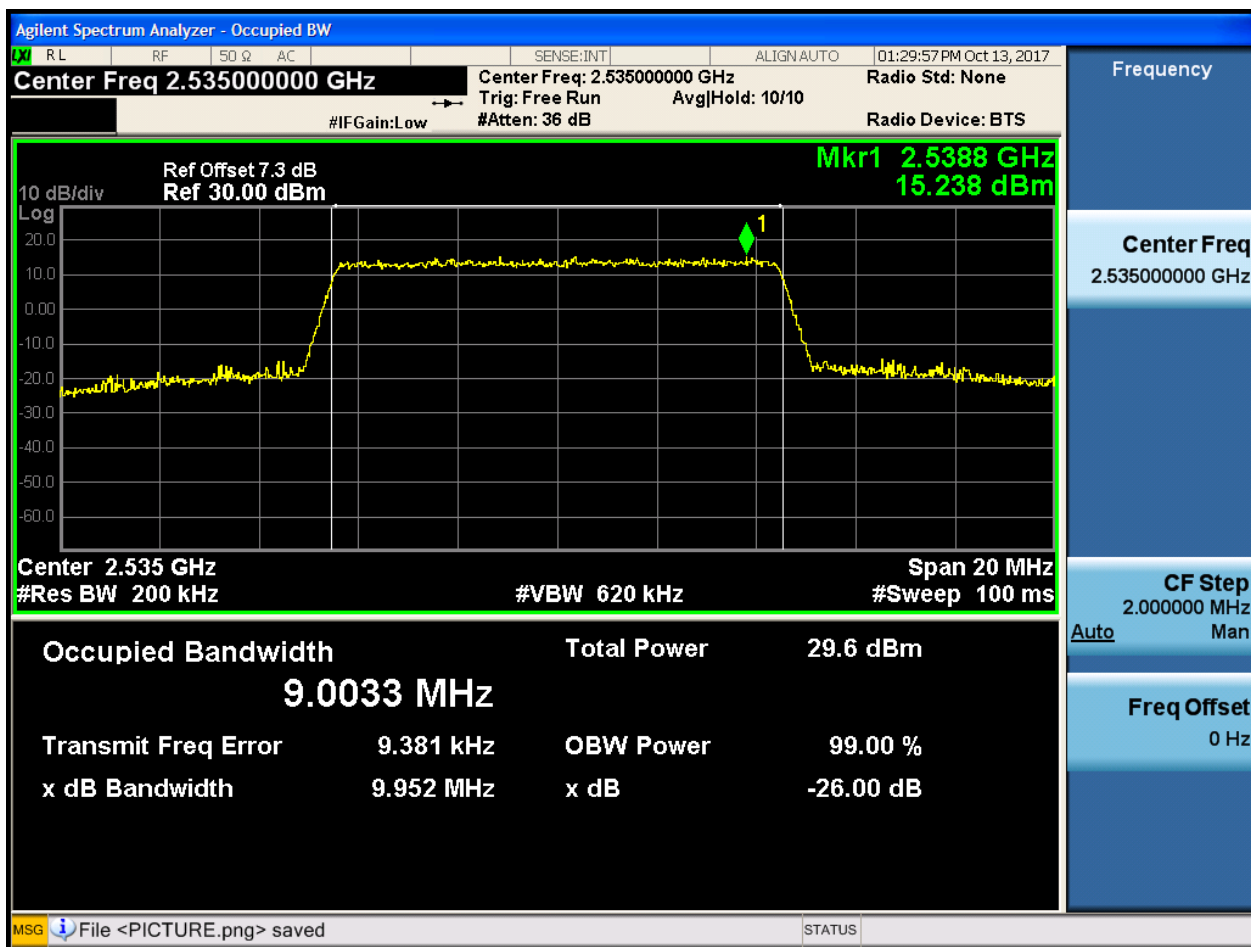
4.1.1.2.2.1.1 Test RB = RB50#0





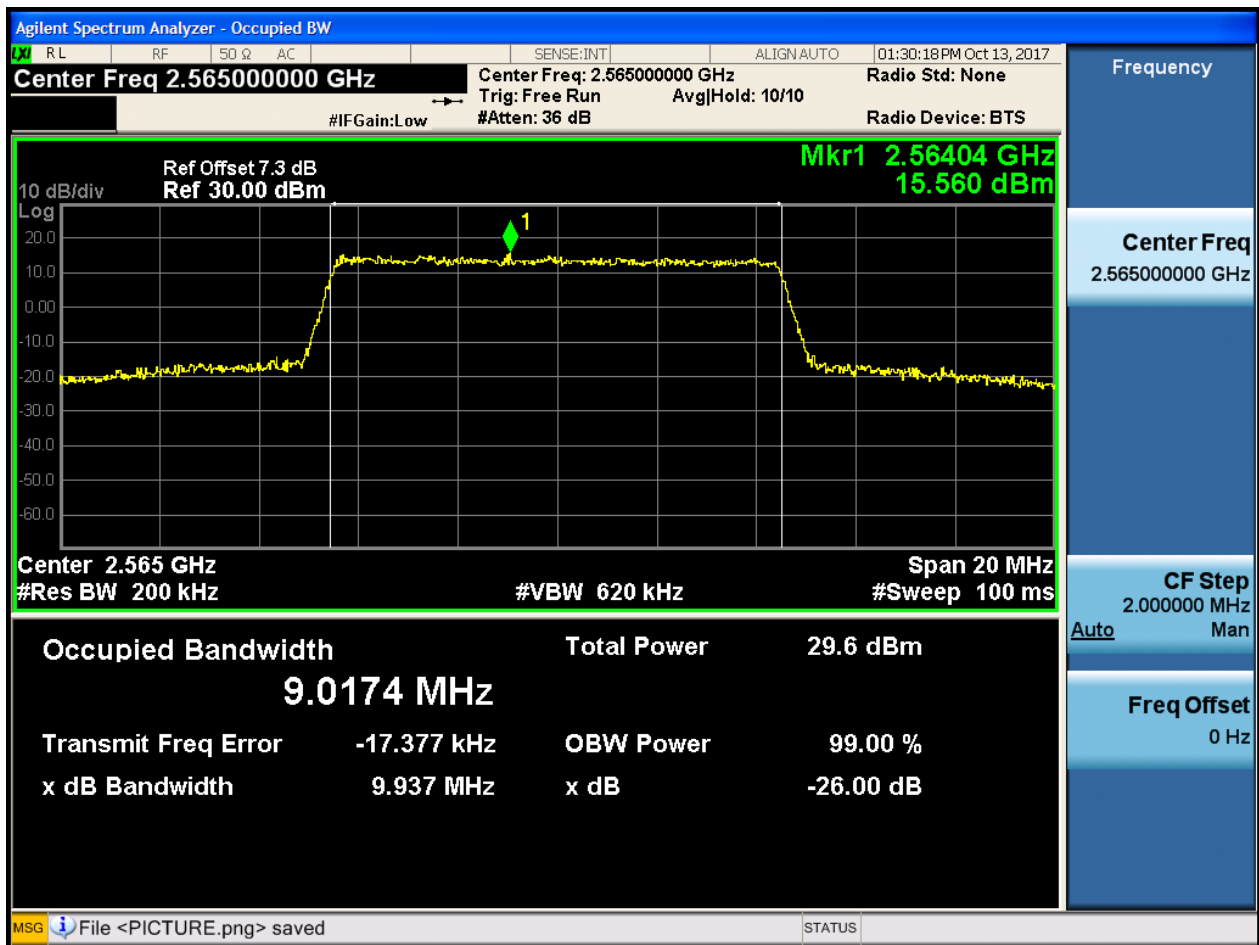
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.1 Test RB = RB50#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

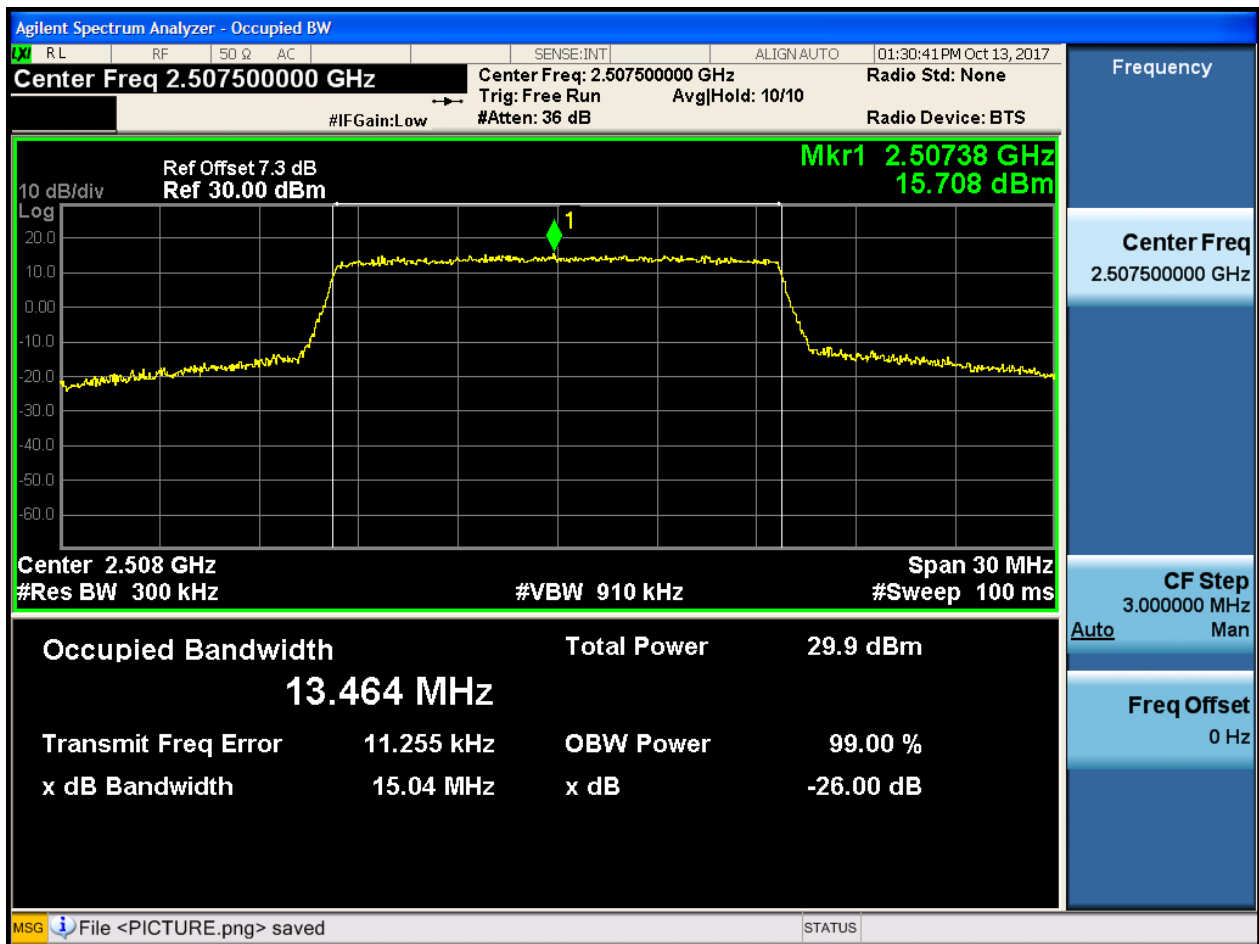




4.1.1.2.3 Test Bandwidth = 15

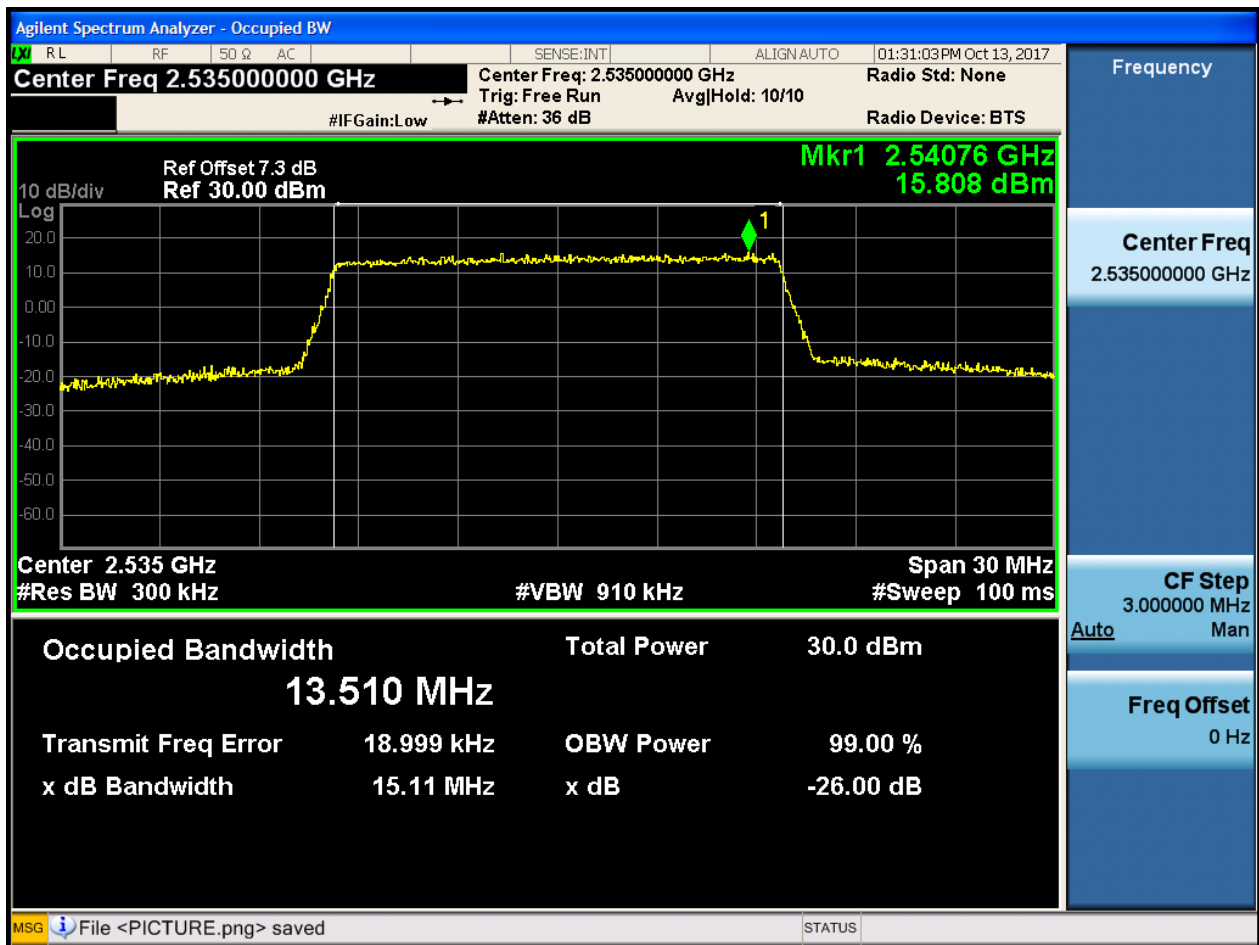
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



4.1.1.2.3.2 Test Channel = MCH

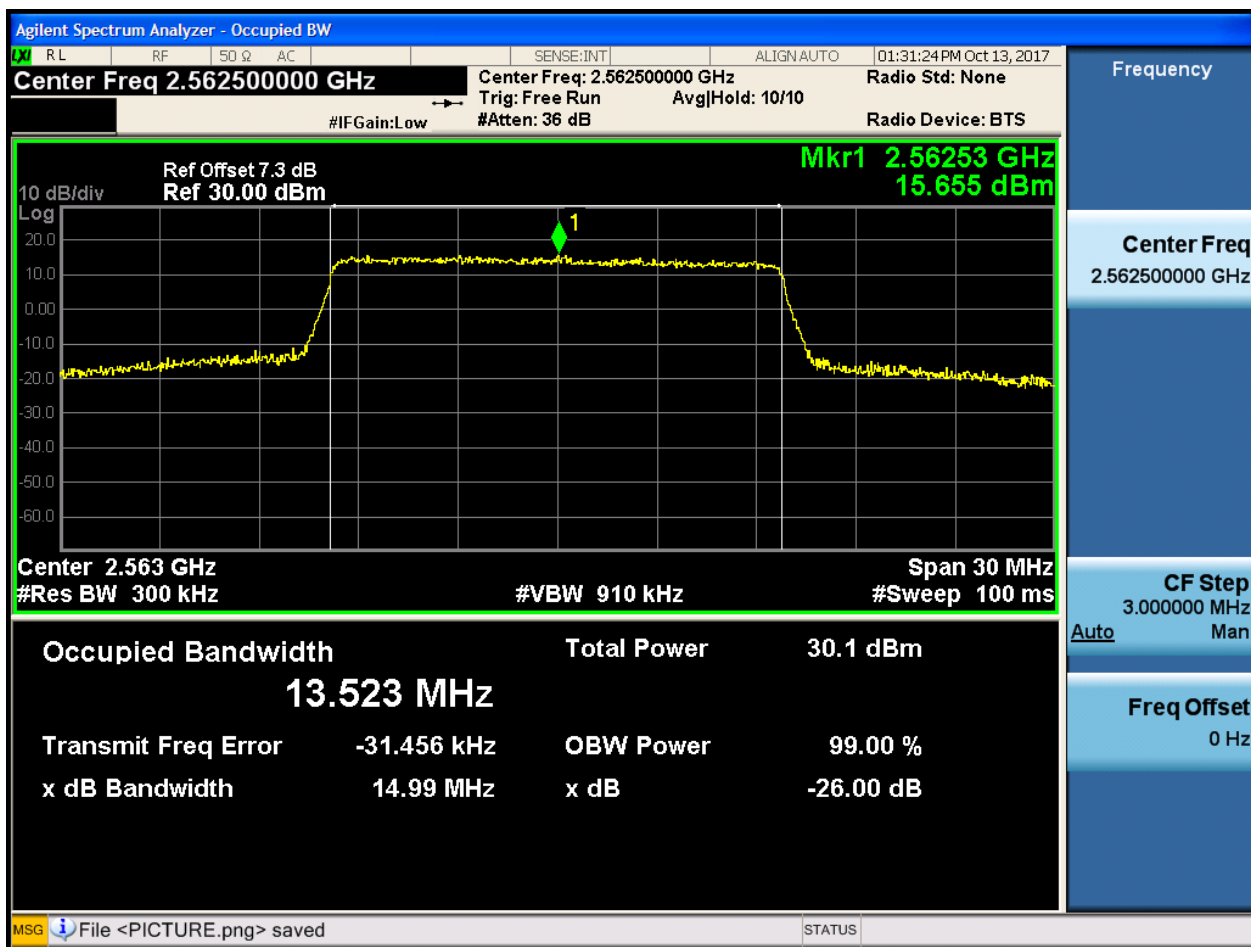
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

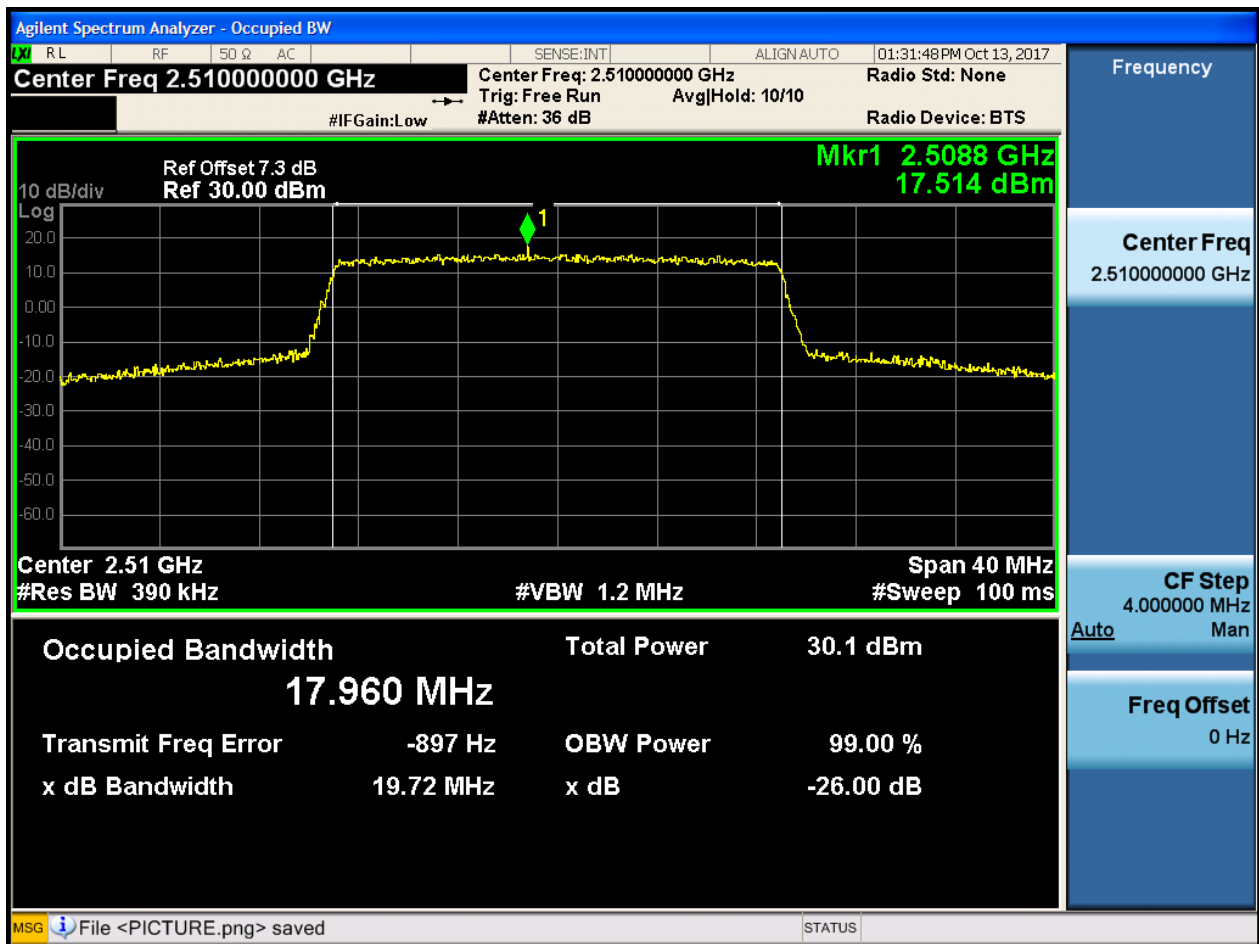




4.1.1.2.4 Test Bandwidth = 20

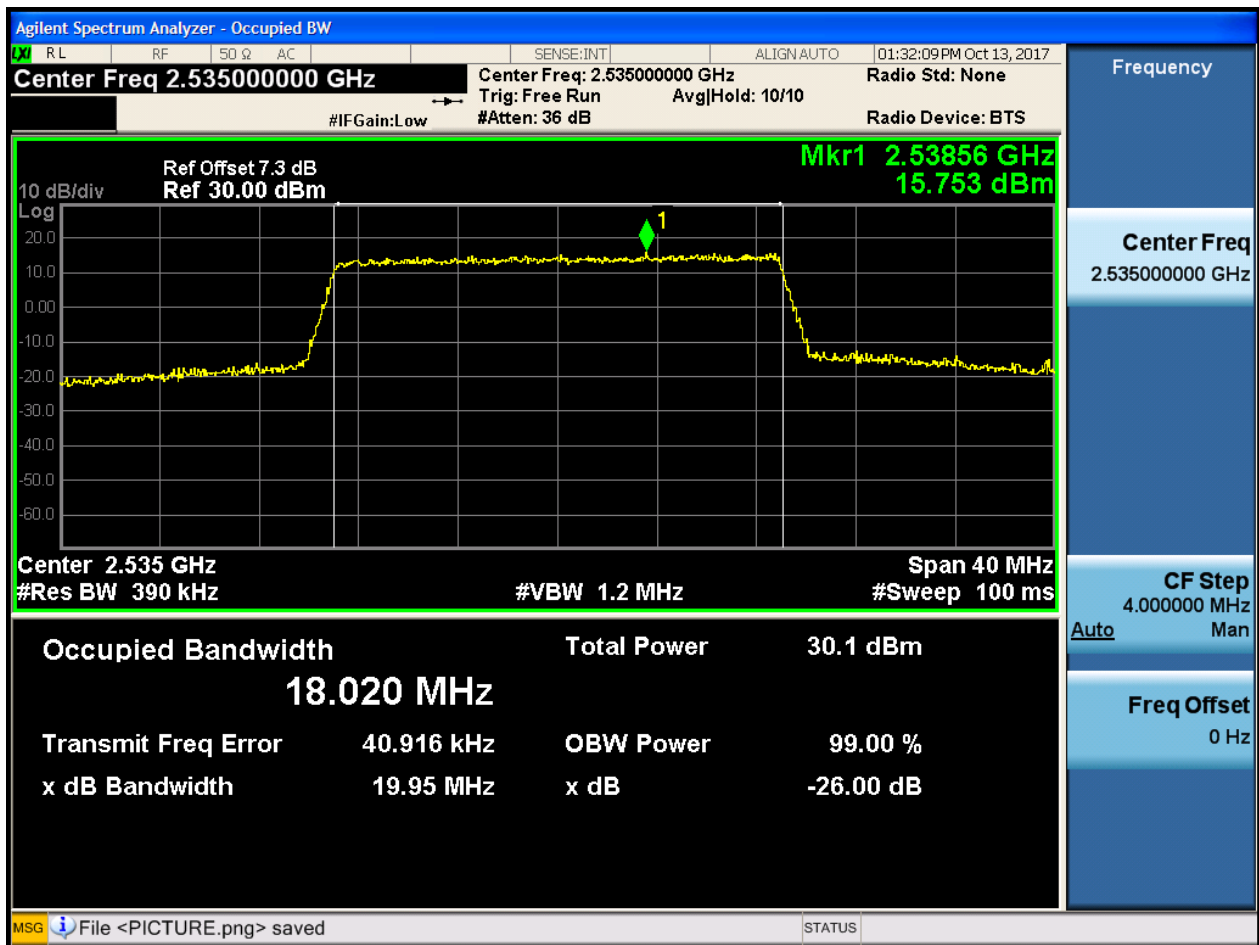
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



4.1.1.2.4.2 Test Channel = MCH

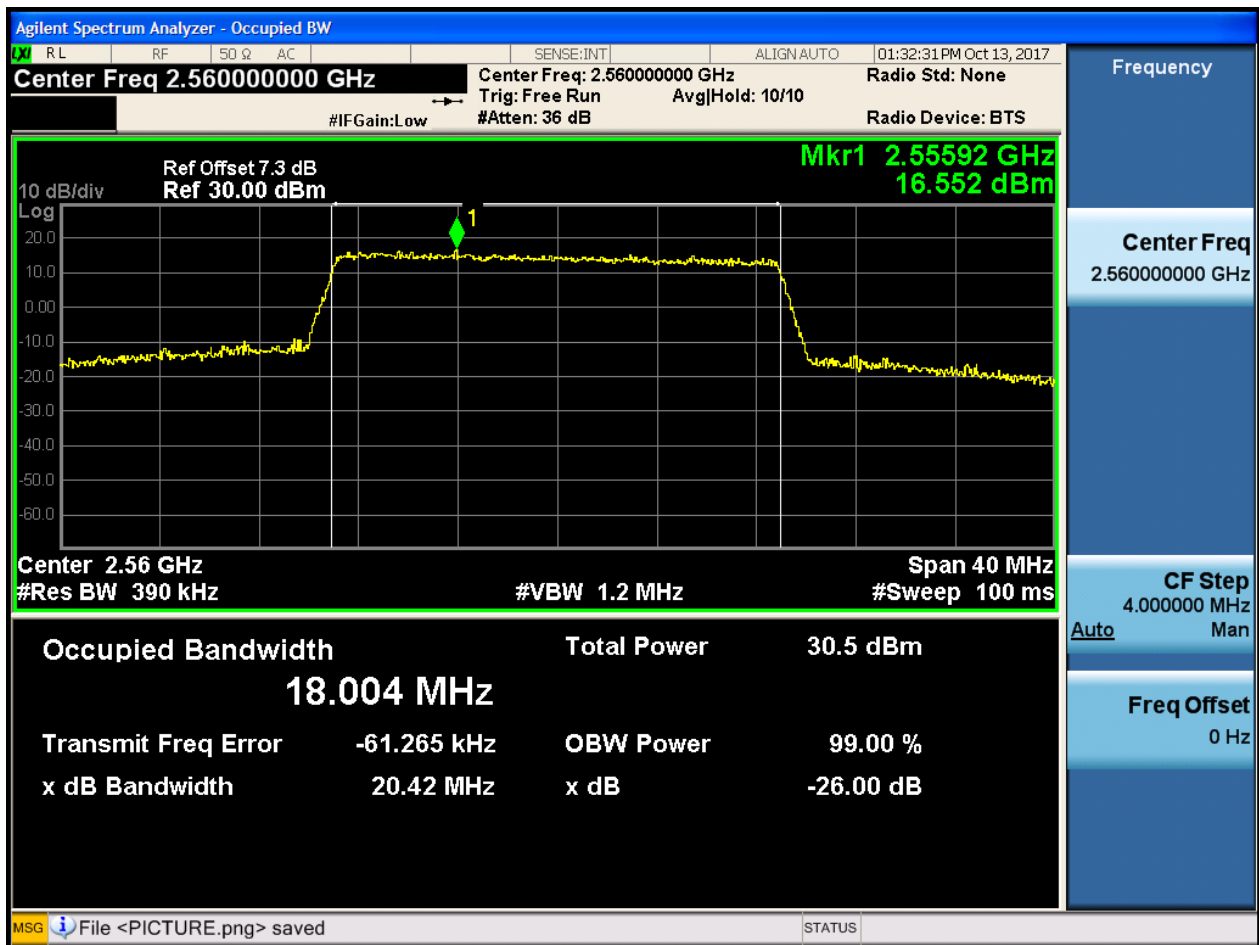
4.1.1.2.4.2.1 Test RB = RB100#0





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

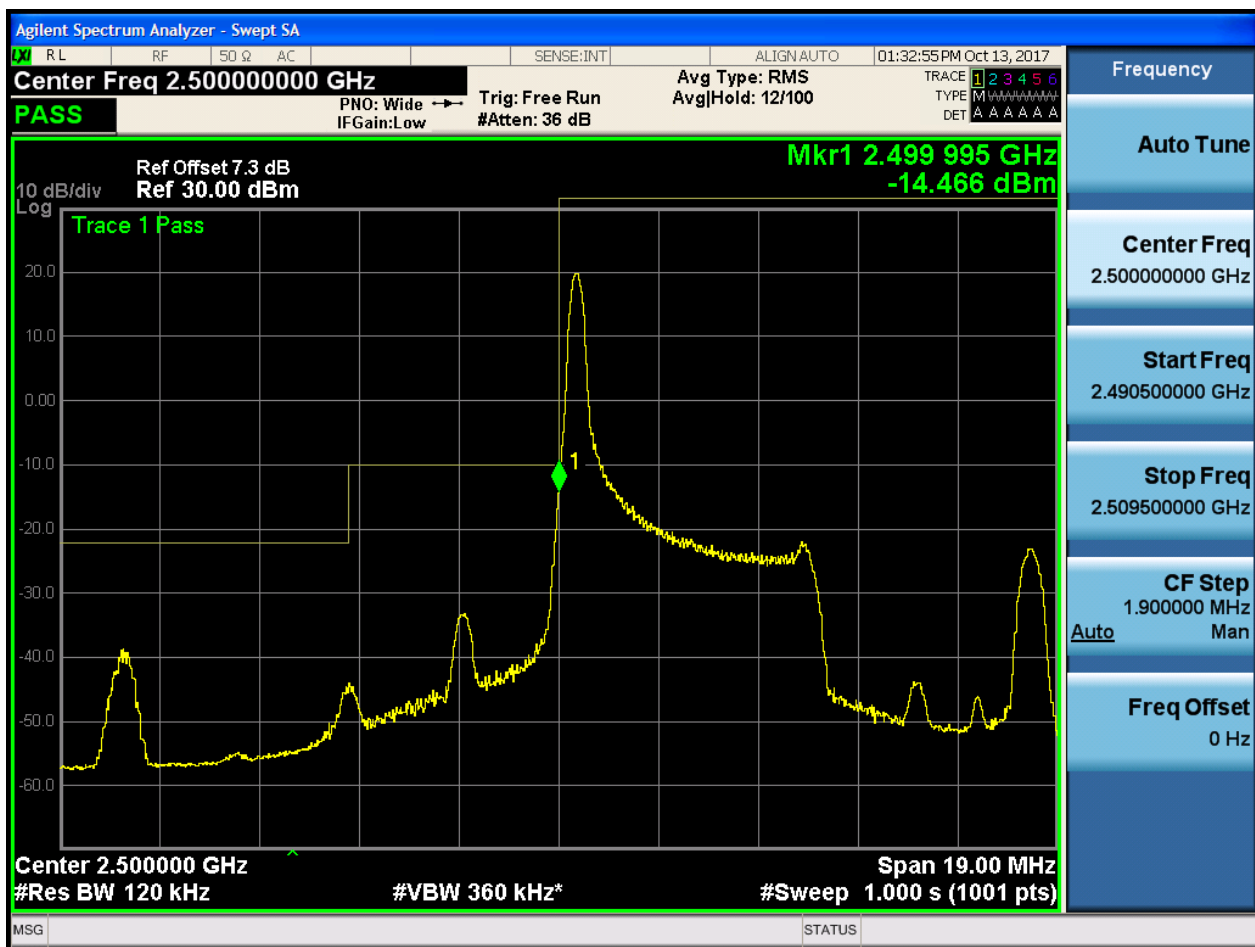
5.1.1 Test Band = BAND7

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:33:14PM Oct 13, 2017

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 M W W W W W W W W W
DET A A A A A A A

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-35.591 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



5.1.1.1.1.3 Test RB = RB12#6





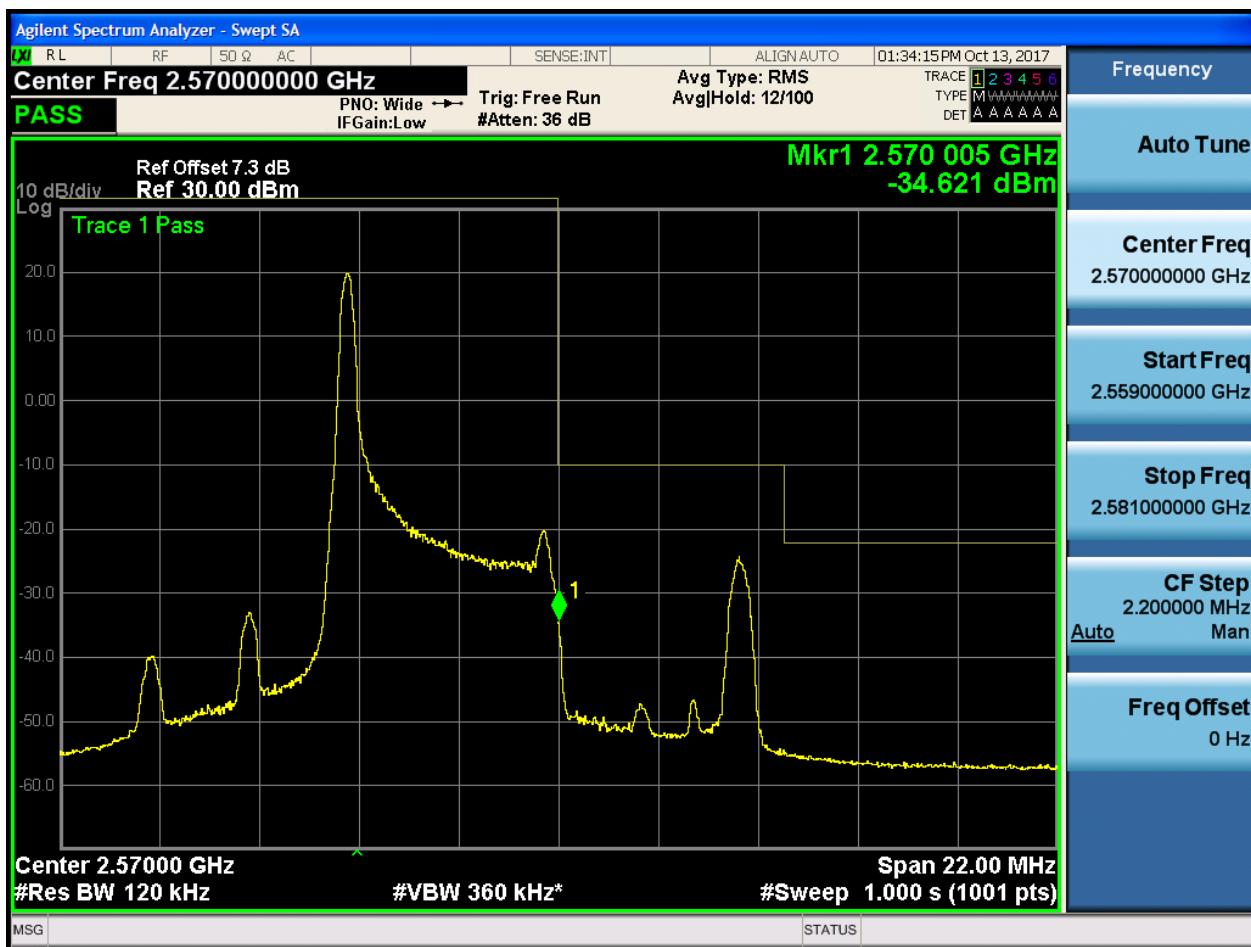
5.1.1.1.1.4 Test RB = RB25#0





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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:34:52 PM Oct 13, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
#Res BW 120 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
#VBW 360 kHz* #Atten: 36 dB

PASS PNO: Wide Trace 1 2 3 4 5 6
IFGain:Low TYPE M A A A A A A
DET A A A A A A

Ref Offset 7.3 dB Mkr1 2.570 005 GHz
Ref 30.00 dBm -28.205 dBm

10 dB/div Log

Trace 1 Pass

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
2.570000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.4 Test RB = RB25#0

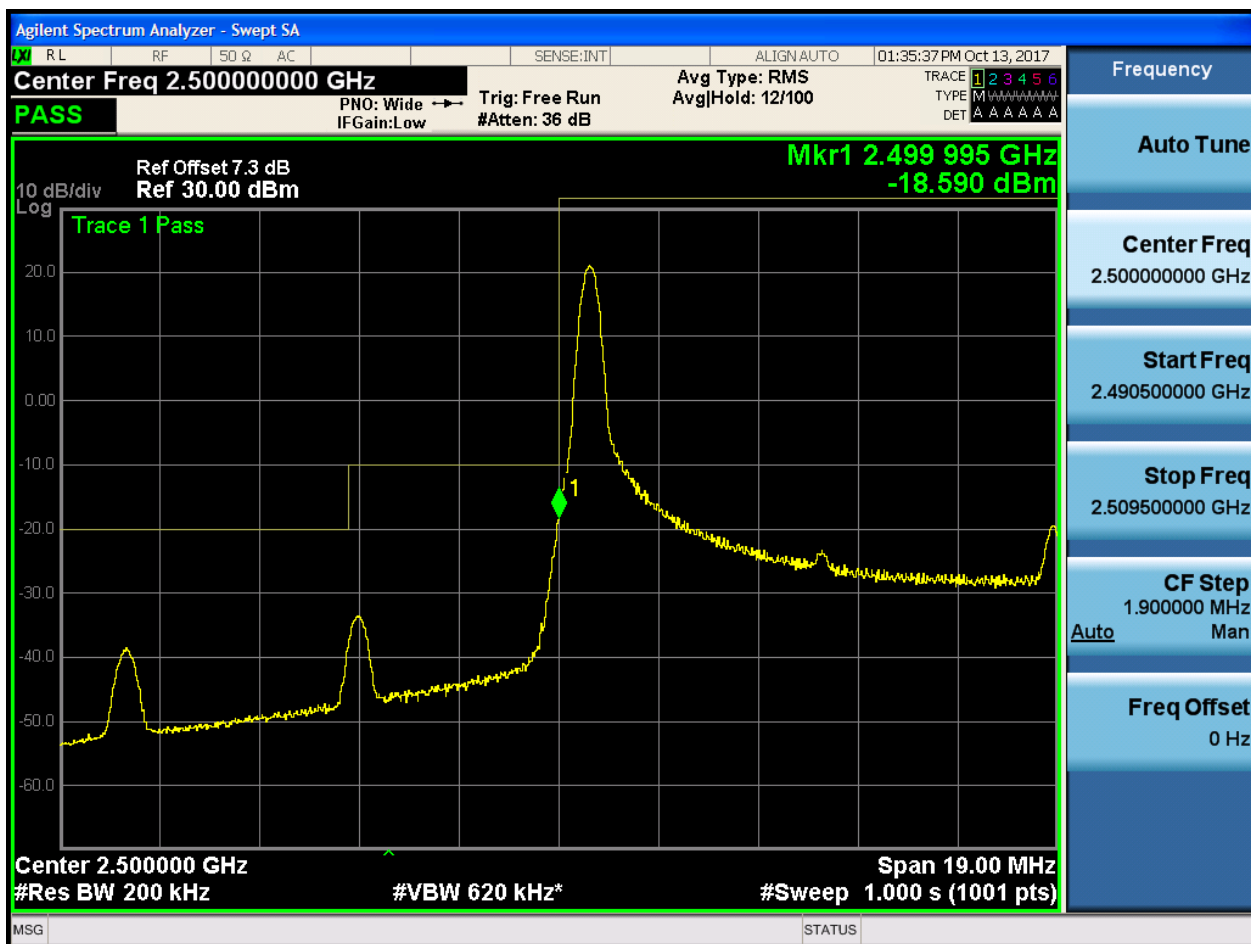




5.1.1.1.2 Test Bandwidth = 10

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:36:14 PM Oct 13, 2017

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 M W 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
-29.699 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



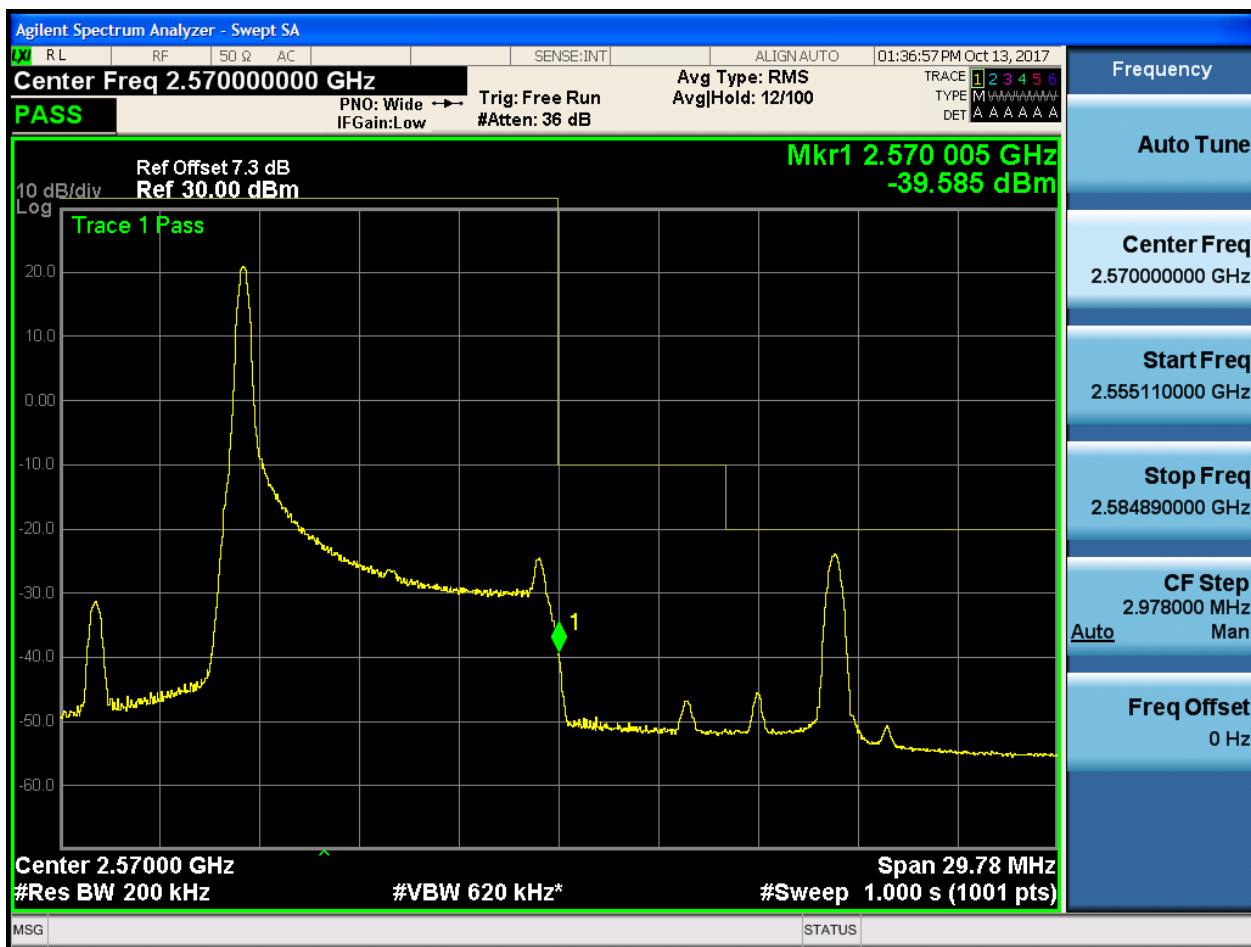
5.1.1.1.2.1.4 Test RB = RB50#0





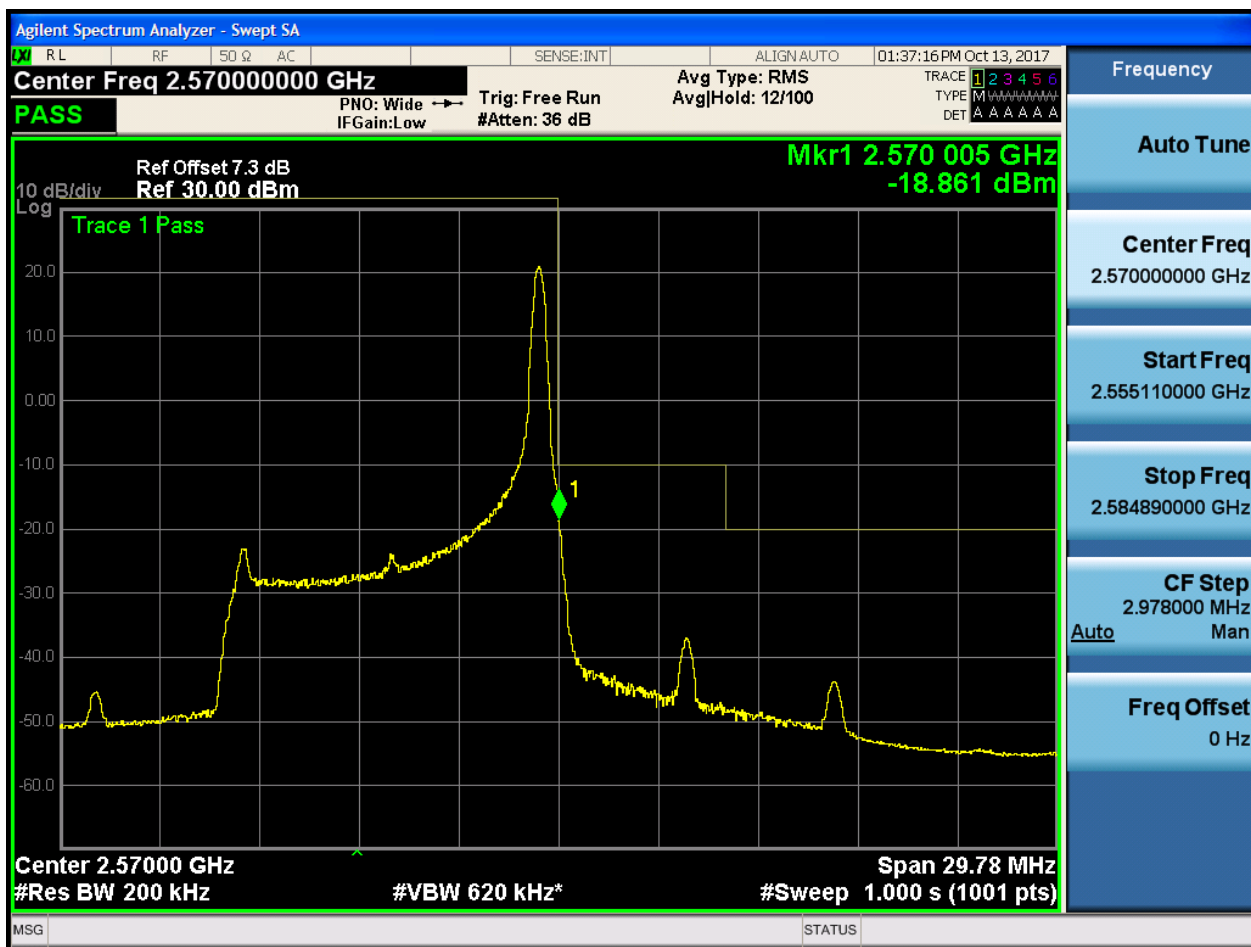
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13



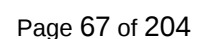


5.1.1.1.2.2.4 Test RB = RB50#0





5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:38:57 PM Oct 13, 2017

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 M W 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
-29.394 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



5.1.1.1.3.1.4 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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:40:00 PM Oct 13, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 330 kHz PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Att: 36 dB

PASS

Ref Offset 7.3 dB Ref 30.00 dBm

Mkr1 2.570 01 GHz -16.759 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 40.34 MHz
#VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.549830000 GHz

Stop Freq
2.590170000 GHz

CF Step
4.034000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

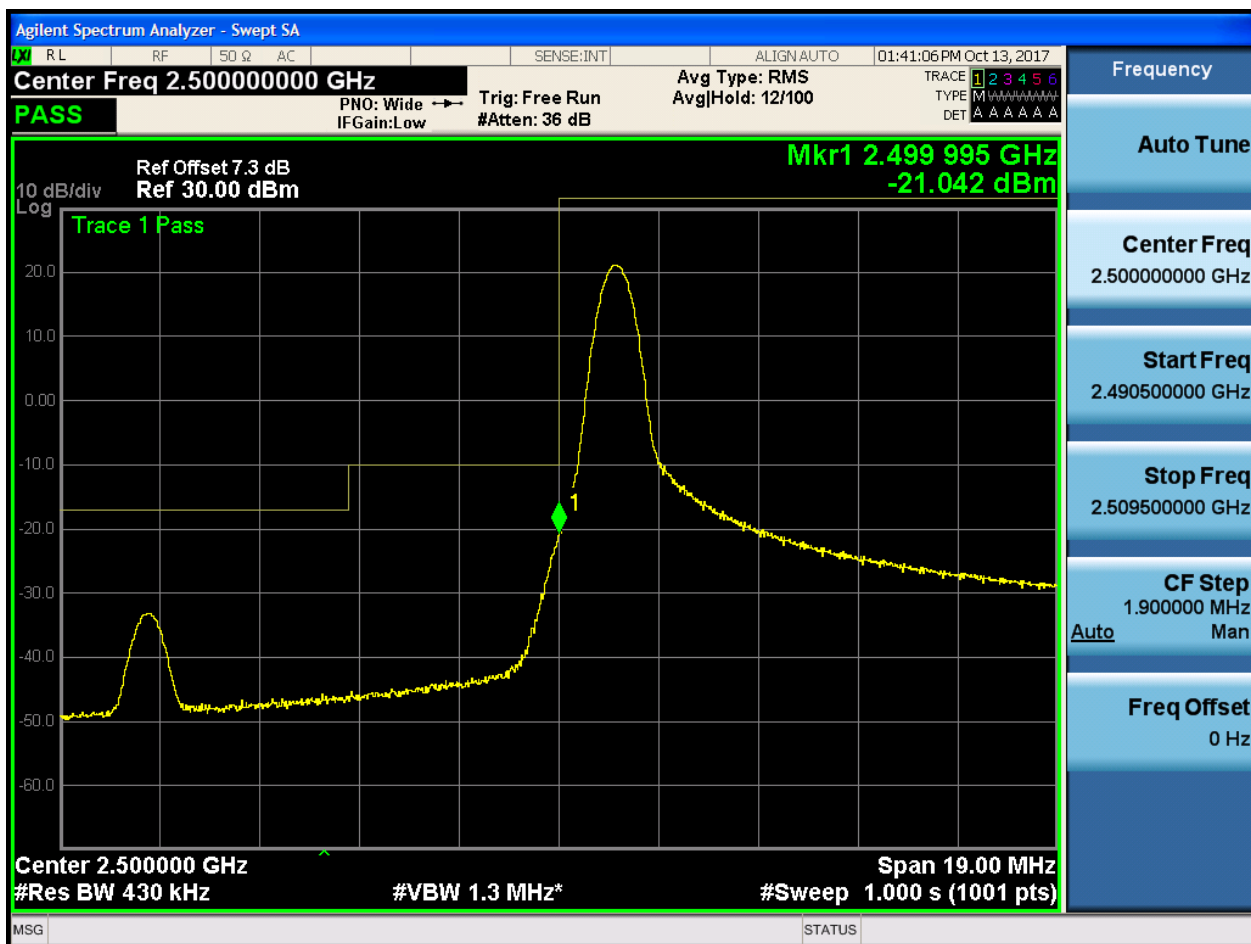




5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99





5.1.1.1.4.1.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

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

Ref Offset 7.3 dB Ref 30.00 dBm Mkr1 2.499 995 GHz -27.962 dBm

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)

Frequency
Auto Tune
Center Freq 2.500000000 GHz
Start Freq 2.490500000 GHz
Stop Freq 2.509500000 GHz
CF Step 1.900000 MHz <u>Auto</u> 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





5.1.1.1.4.2.4 Test RB = RB100#0

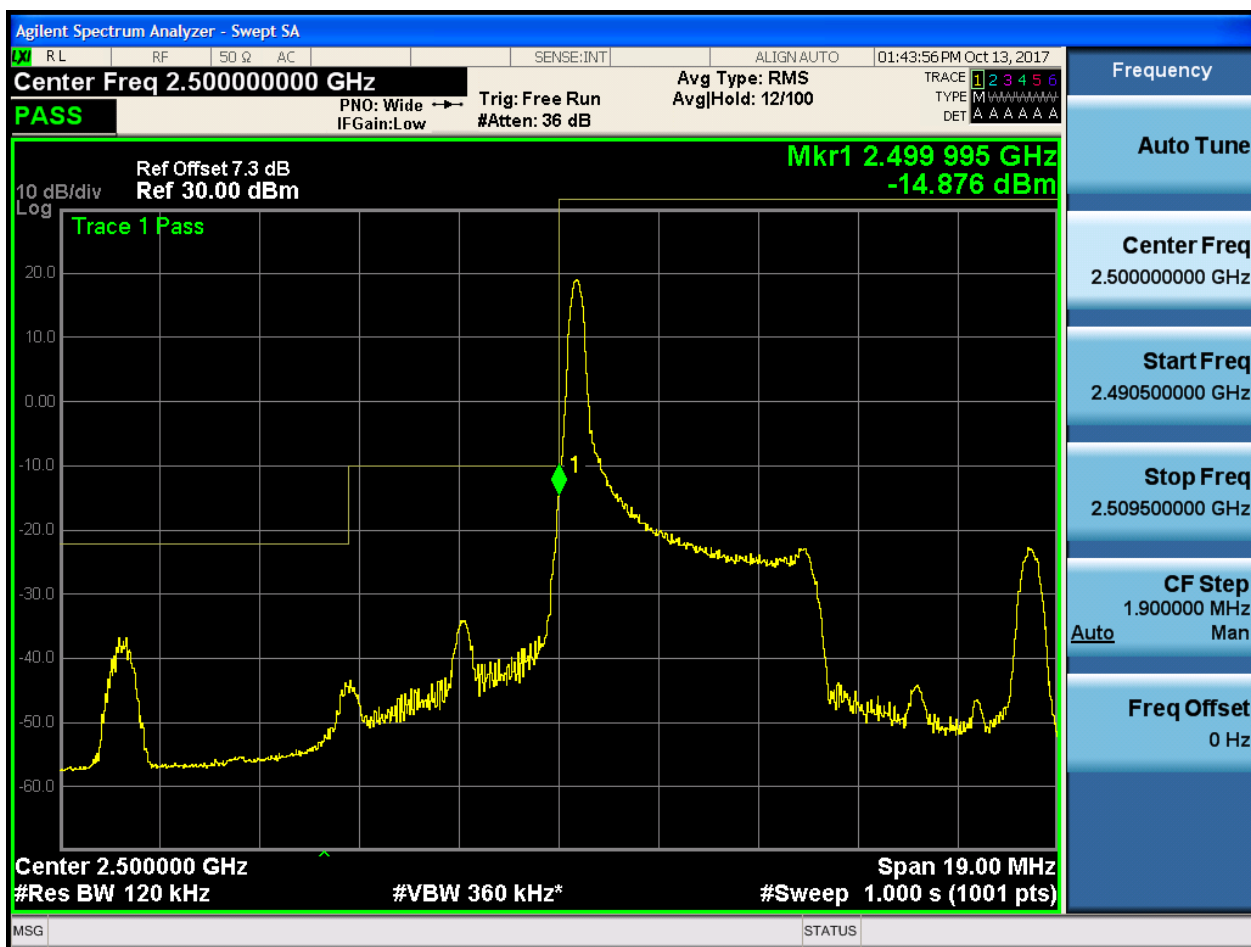


5.1.1.2 Test Mode = LTE/TM2

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:14PM Oct 13, 2017

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 M W 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
-35.700 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

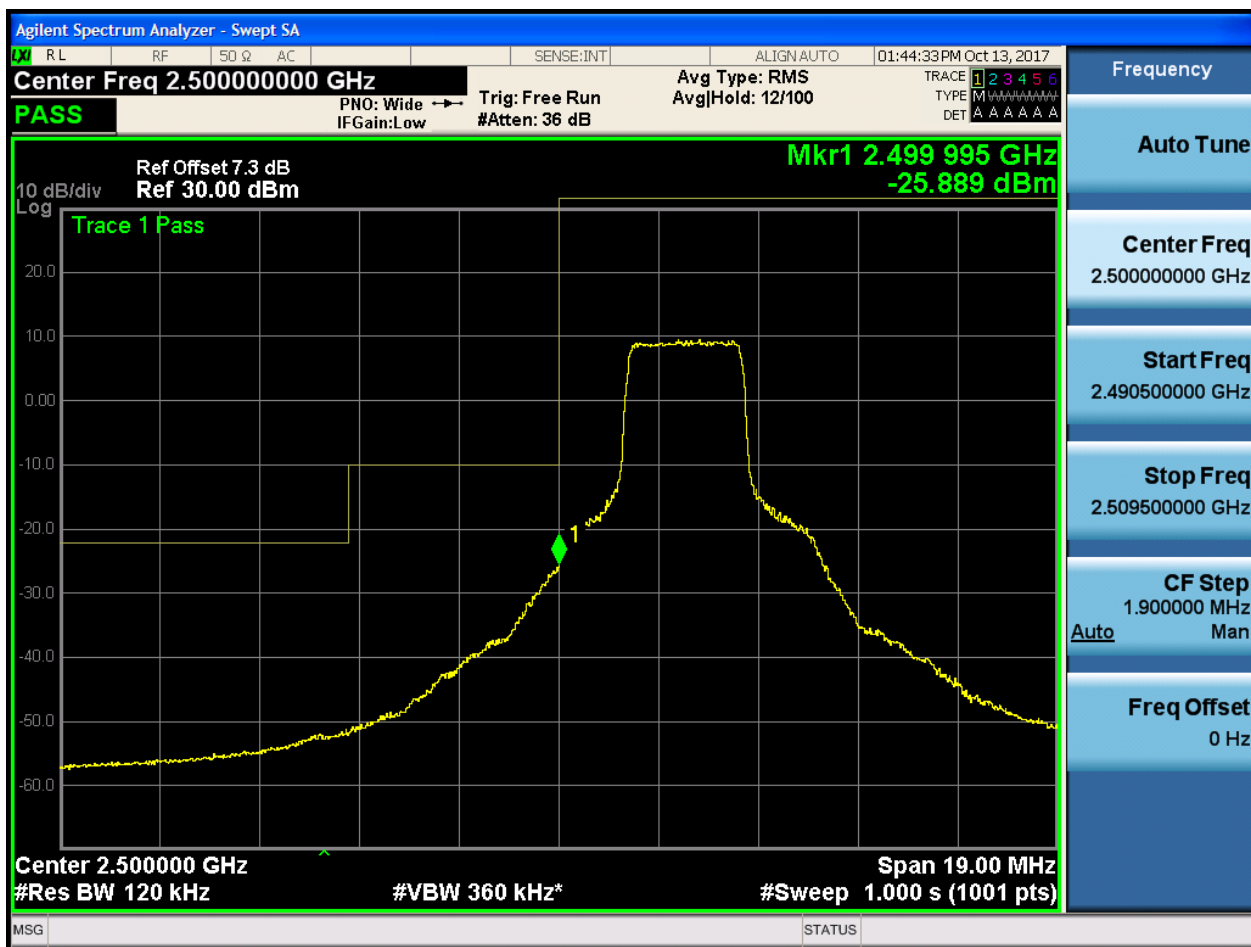
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.1.1.3 Test RB = RB12#6



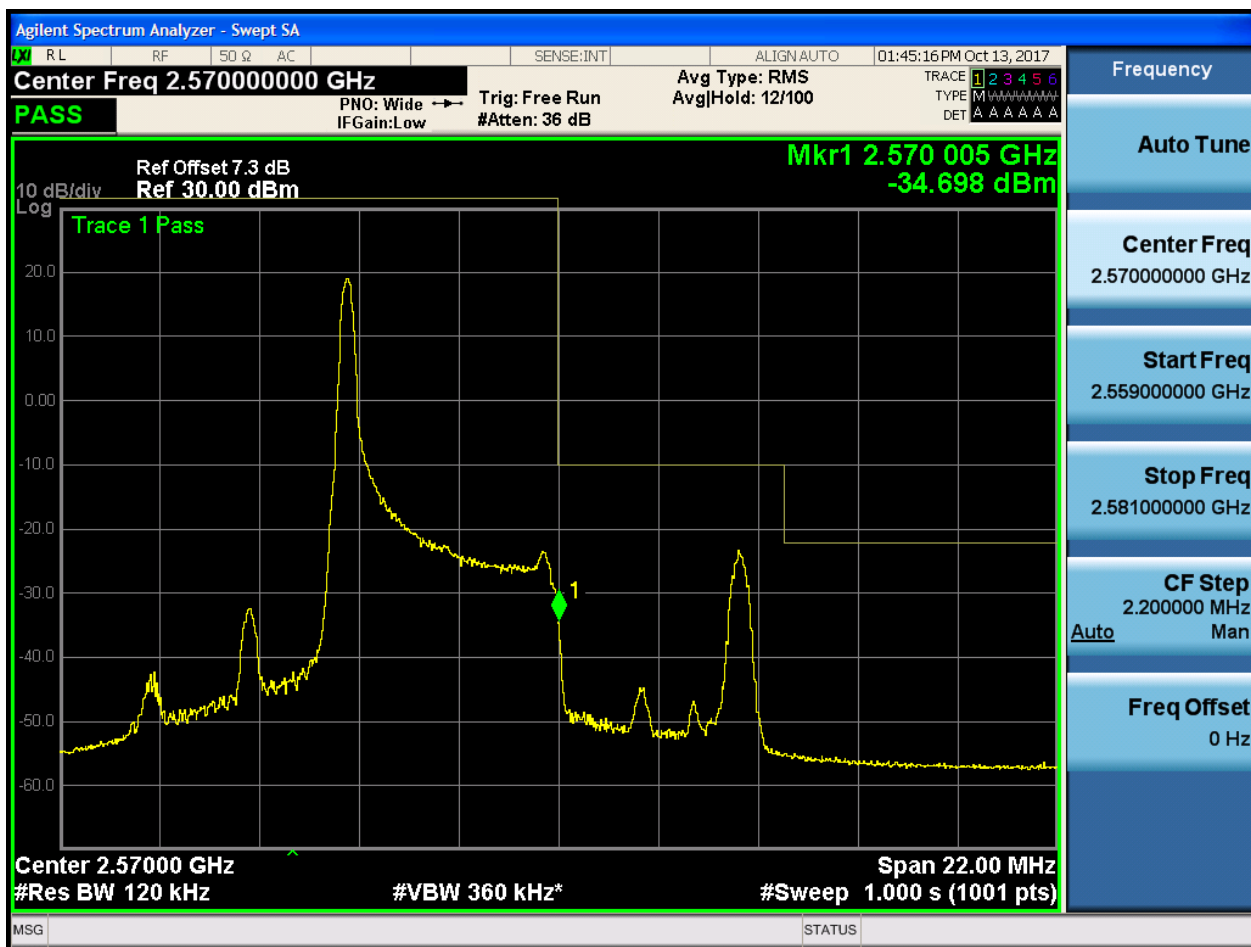


5.1.1.2.1.1.4 Test RB = RB25#0



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



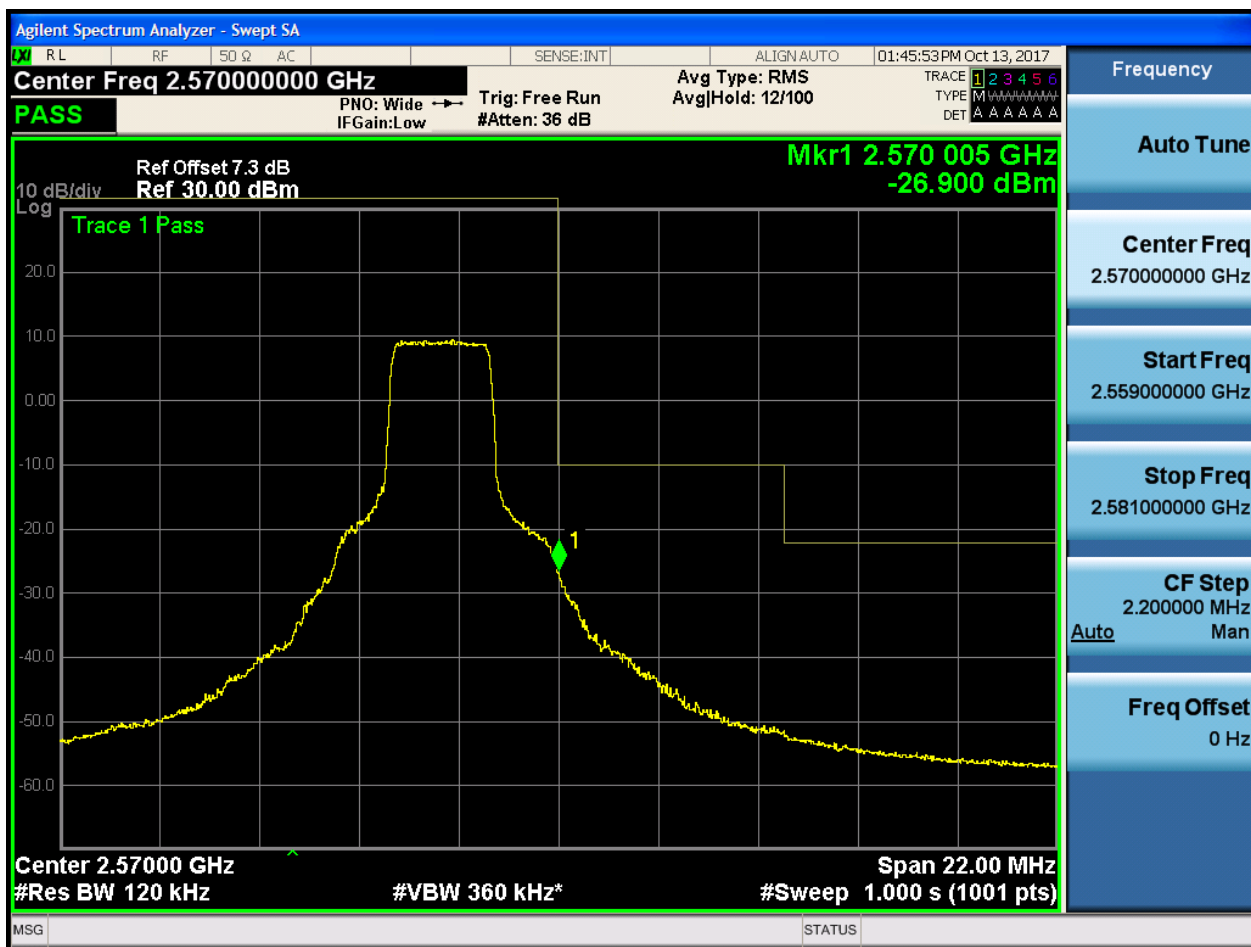


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





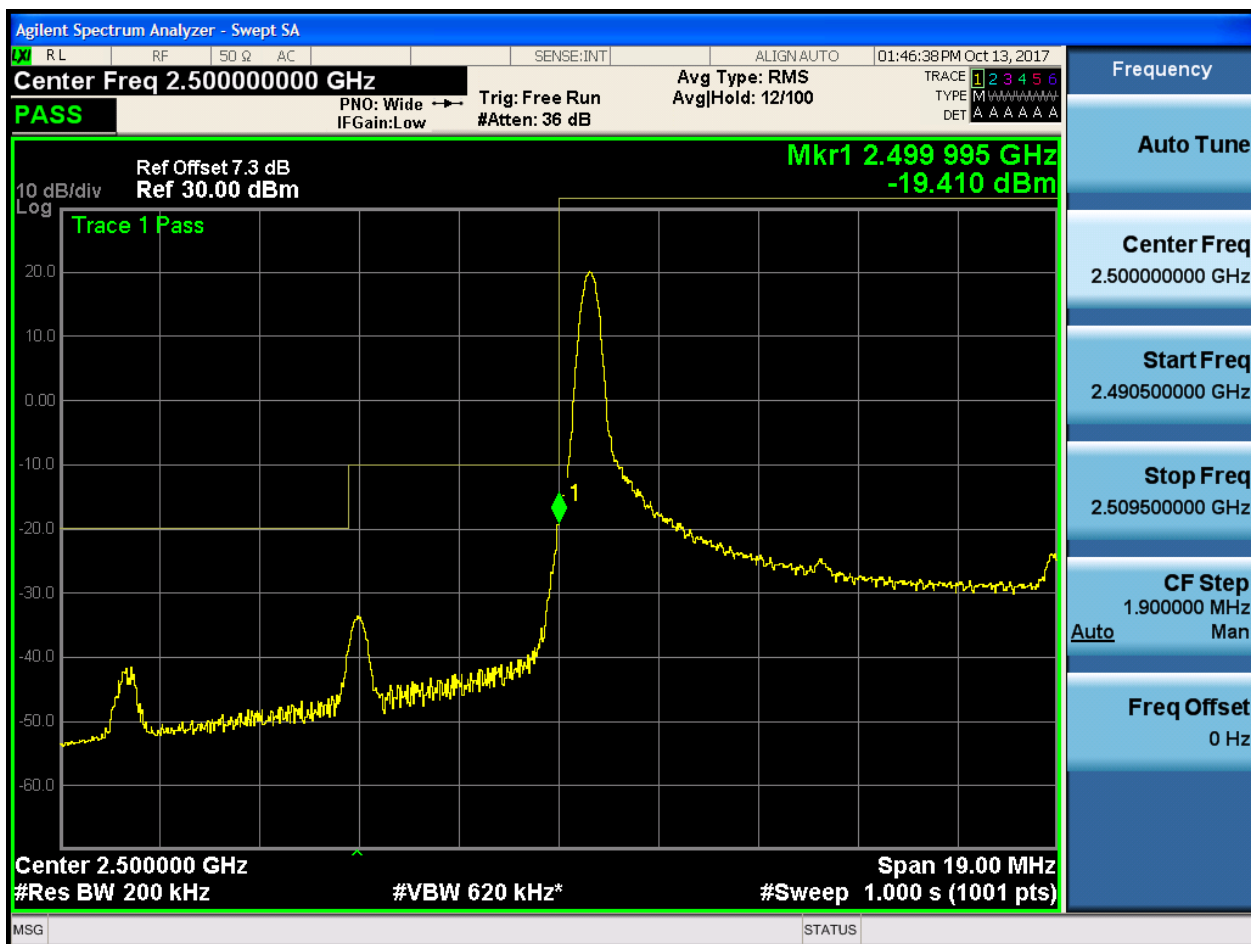
5.1.1.2.1.2.4 Test RB = RB25#0



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





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
-27.965 dBm

Center 2.500000 GHz
#Res BW 200 kHz
#VBW 620 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

Freq Offset
0 Hz



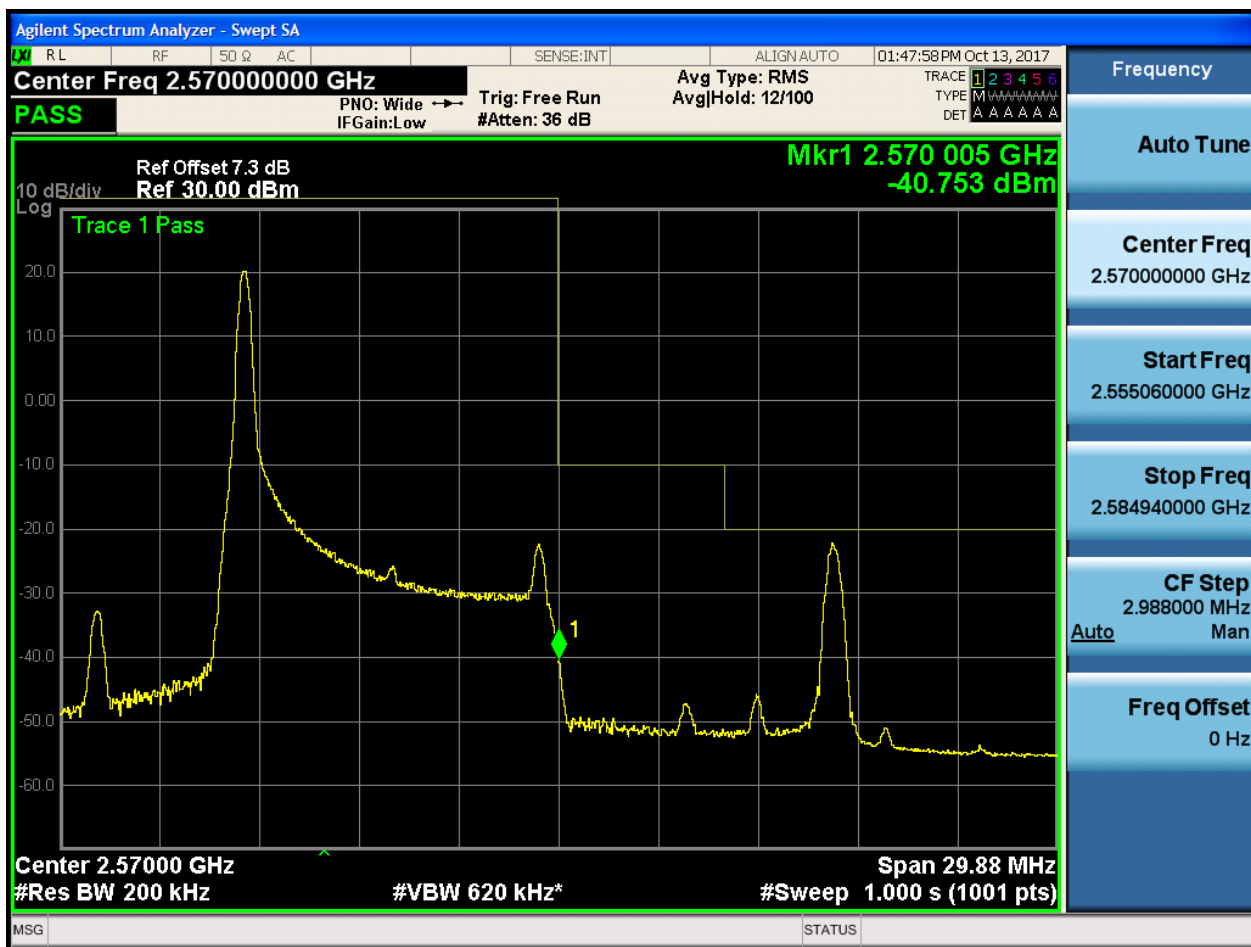
5.1.1.2.2.1.4 Test RB = RB50#0





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



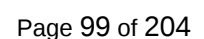


5.1.1.2.2.4 Test RB = RB50#0





5.1.1.2.3.1.1 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:51:02 PM Oct 13, 2017

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-17.858 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Span 39.98 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550010000 GHz

Stop Freq
2.589990000 GHz

CF Step
3.998000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.3.2.3 Test RB = RB36#18





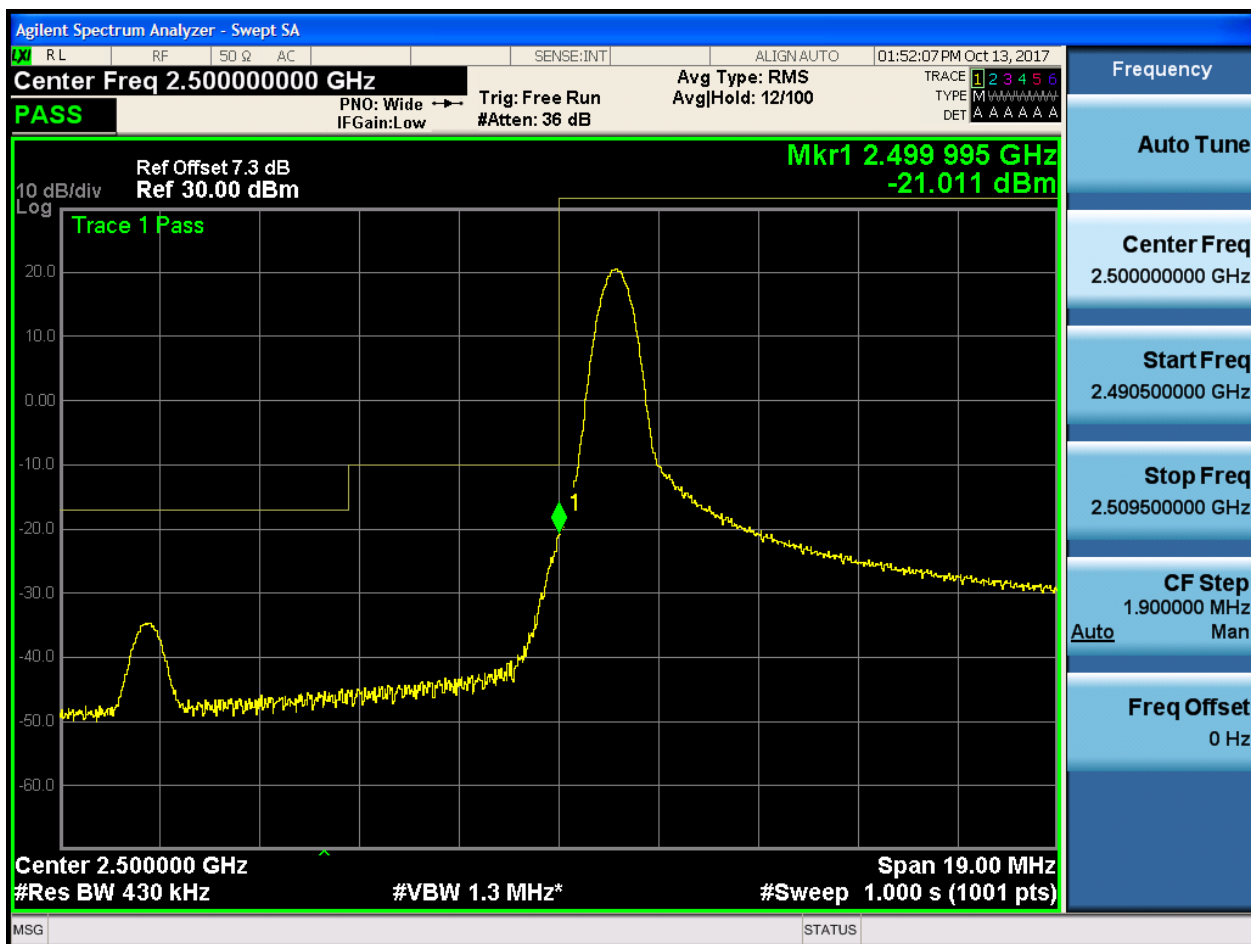
5.1.1.2.3.2.4 Test RB = RB75#0



5.1.1.2.4 Test Bandwidth = 20

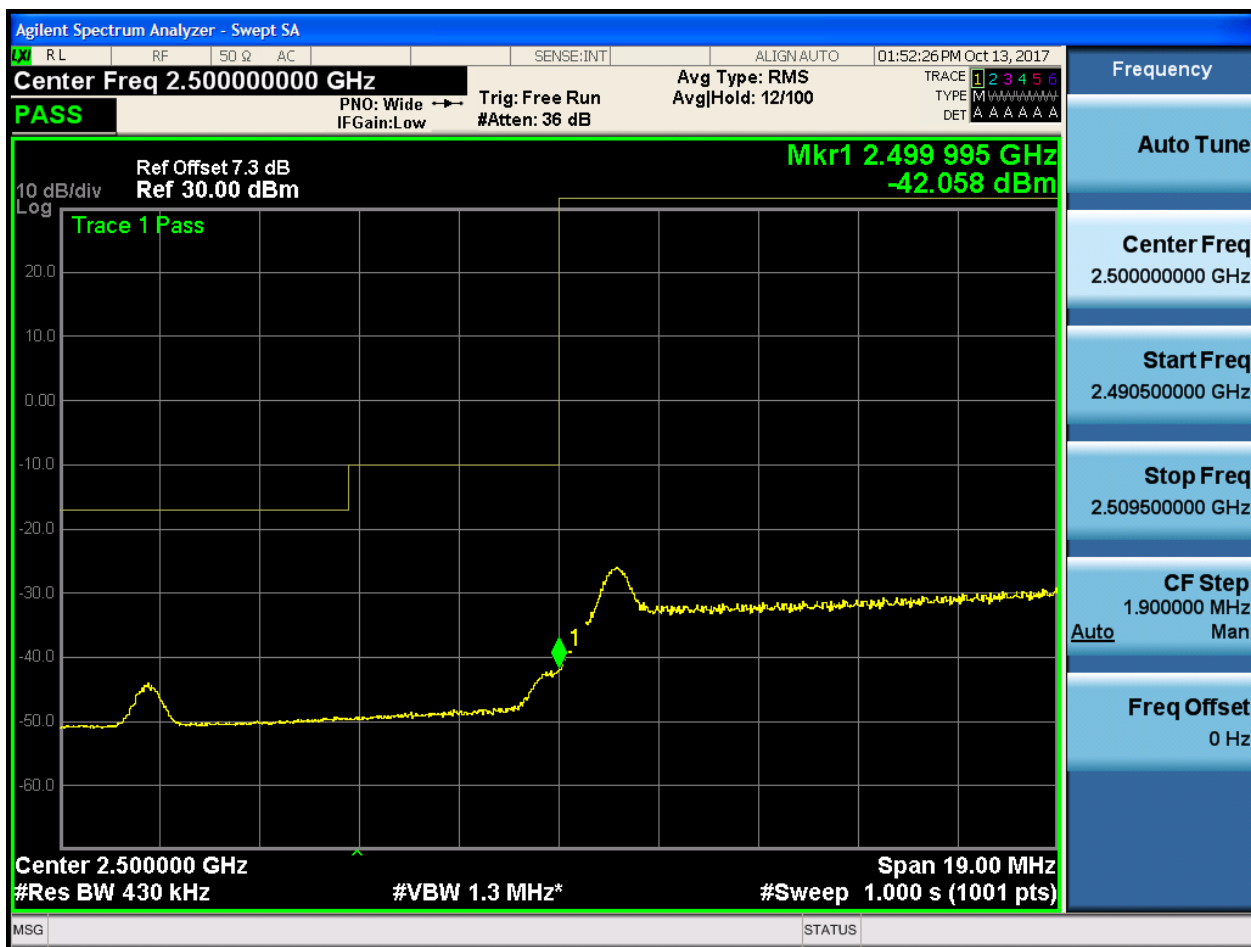
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99





5.1.1.2.4.1.3 Test RB = RB50#25





5.1.1.2.4.1.4 Test RB = RB100#0





5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0

