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	21.36	22.86	33	PASS
				RB1#13	21.6	23.1	33	PASS
				RB1#24	21.35	22.85	33	PASS
				RB12#0	21.81	23.31	33	PASS
				RB12#6	21.88	23.38	33	PASS
				RB12#13	21.77	23.27	33	PASS
				RB25#0	21.8	23.3	33	PASS
			MCH	RB1#0	21.86	23.36	33	PASS
				RB1#13	21.94	23.44	33	PASS
				RB1#24	21.5	23	33	PASS
				RB12#0	22.28	23.78	33	PASS
				RB12#6	22.24	23.74	33	PASS
				RB12#13	22.06	23.56	33	PASS
				RB25#0	22.17	23.67	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.94	23.44	33	PASS
				RB1#13	22.14	23.64	33	PASS
				RB1#24	21.72	23.22	33	PASS
				RB12#0	22.32	23.82	33	PASS
				RB12#6	22.34	23.84	33	PASS
				RB12#13	22.28	23.78	33	PASS
				RB25#0	22.33	23.83	33	PASS
		10	LCH	RB1#0	21.31	22.81	33	PASS
				RB1#25	21.81	23.31	33	PASS
				RB1#49	21.63	23.13	33	PASS
				RB25#0	21.91	23.41	33	PASS
				RB25#13	22.06	23.56	33	PASS
				RB25#25	22.01	23.51	33	PASS
				RB50#0	21.87	23.37	33	PASS
			MCH	RB1#0	21.66	23.16	33	PASS
				RB1#25	21.97	23.47	33	PASS
				RB1#49	21.71	23.21	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.19	23.69	33	PASS
				RB25#13	22.21	23.71	33	PASS
				RB25#25	22.09	23.59	33	PASS
				RB50#0	22.18	23.68	33	PASS
			HCH	RB1#0	21.79	23.29	33	PASS
				RB1#25	22.13	23.63	33	PASS
				RB1#49	21.78	23.28	33	PASS
				RB25#0	22.18	23.68	33	PASS
				RB25#13	22.27	23.77	33	PASS
				RB25#25	22.25	23.75	33	PASS
				RB50#0	22.29	23.79	33	PASS
		15	LCH	RB1#0	21.18	22.68	33	PASS
				RB1#38	21.9	23.4	33	PASS
				RB1#74	21.49	22.99	33	PASS
				RB36#0	21.84	23.34	33	PASS
				RB36#18	22.09	23.59	33	PASS
				RB36#39	22.09	23.59	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	22	23.5	33	PASS
			MCH	RB1#0	21.54	23.04	33	PASS
				RB1#38	21.93	23.43	33	PASS
				RB1#74	21.6	23.1	33	PASS
				RB36#0	22.05	23.55	33	PASS
				RB36#18	22.21	23.71	33	PASS
				RB36#39	22.14	23.64	33	PASS
				RB75#0	22.12	23.62	33	PASS
			HCH	RB1#0	21.54	23.04	33	PASS
				RB1#38	22.05	23.55	33	PASS
				RB1#74	21.67	23.17	33	PASS
				RB36#0	22.16	23.66	33	PASS
				RB36#18	22.28	23.78	33	PASS
				RB36#39	22.23	23.73	33	PASS
				RB75#0	22.23	23.73	33	PASS
		20	LCH	RB1#0	21.34	22.84	33	PASS
				RB1#50	21.95	23.45	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.82	23.32	33	PASS
				RB50#0	21.95	23.45	33	PASS
				RB50#25	22.23	23.73	33	PASS
				RB50#50	22.27	23.77	33	PASS
				RB100#0	22.1	23.6	33	PASS
			MCH	RB1#0	21.67	23.17	33	PASS
				RB1#50	21.94	23.44	33	PASS
				RB1#99	21.74	23.24	33	PASS
				RB50#0	22.3	23.8	33	PASS
				RB50#25	22.23	23.73	33	PASS
				RB50#50	22.1	23.6	33	PASS
				RB100#0	22.17	23.67	33	PASS
			HCH	RB1#0	21.86	23.36	33	PASS
				RB1#50	22.02	23.52	33	PASS
				RB1#99	21.81	23.31	33	PASS
				RB50#0	22.05	23.55	33	PASS
				RB50#25	22.2	23.7	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	22.22	23.72	33	PASS
				RB100#0	22.18	23.68	33	PASS
			LCH	RB1#0	21.56	23.06	33	PASS
				RB1#13	21.76	23.26	33	PASS
				RB1#24	21.5	23	33	PASS
				RB12#0	21.37	22.87	33	PASS
				RB12#6	21.41	22.91	33	PASS
				RB12#13	21.32	22.82	33	PASS
				RB25#0	21.33	22.83	33	PASS
	LTE/TM2	5		RB1#0	22.04	23.54	33	PASS
				RB1#13	22.18	23.68	33	PASS
				RB1#24	21.8	23.3	33	PASS
			MCH	RB12#0	21.81	23.31	33	PASS
				RB12#6	21.78	23.28	33	PASS
				RB12#13	21.6	23.1	33	PASS
				RB25#0	21.7	23.2	33	PASS
			HCH	RB1#0	22.25	23.75	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.39	23.89	33	PASS
				RB1#24	22.06	23.56	33	PASS
				RB12#0	21.93	23.43	33	PASS
				RB12#6	21.95	23.45	33	PASS
				RB12#13	21.84	23.34	33	PASS
				RB25#0	21.83	23.33	33	PASS
			LCH	RB1#0	21.33	22.83	33	PASS
				RB1#25	21.85	23.35	33	PASS
				RB1#49	21.56	23.06	33	PASS
				RB25#0	21.4	22.9	33	PASS
				RB25#13	21.58	23.08	33	PASS
				RB25#25	21.53	23.03	33	PASS
		10		RB50#0	21.4	22.9	33	PASS
			MCH	RB1#0	21.86	23.36	33	PASS
				RB1#25	21.97	23.47	33	PASS
				RB1#49	21.87	23.37	33	PASS
				RB25#0	21.67	23.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.71	23.21	33	PASS
				RB25#25	21.57	23.07	33	PASS
				RB50#0	21.69	23.19	33	PASS
			HCH	RB1#0	21.96	23.46	33	PASS
				RB1#25	22.27	23.77	33	PASS
				RB1#49	21.97	23.47	33	PASS
				RB25#0	21.64	23.14	33	PASS
				RB25#13	21.86	23.36	33	PASS
				RB25#25	21.77	23.27	33	PASS
				RB50#0	21.81	23.31	33	PASS
		15	LCH	RB1#0	21.25	22.75	33	PASS
				RB1#38	21.94	23.44	33	PASS
				RB1#74	21.54	23.04	33	PASS
				RB36#0	21.34	22.84	33	PASS
				RB36#18	21.6	23.1	33	PASS
				RB36#39	21.6	23.1	33	PASS
				RB75#0	21.5	23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.82	23.32	33	PASS
				RB1#38	22.18	23.68	33	PASS
				RB1#74	21.78	23.28	33	PASS
				RB36#0	21.66	23.16	33	PASS
				RB36#18	21.77	23.27	33	PASS
				RB36#39	21.69	23.19	33	PASS
				RB75#0	21.66	23.16	33	PASS
			HCH	RB1#0	21.64	23.14	33	PASS
				RB1#38	22.11	23.61	33	PASS
				RB1#74	21.76	23.26	33	PASS
				RB36#0	21.71	23.21	33	PASS
				RB36#18	21.84	23.34	33	PASS
				RB36#39	21.79	23.29	33	PASS
				RB75#0	21.79	23.29	33	PASS
		20	LCH	RB1#0	21.67	23.17	33	PASS
				RB1#50	22.26	23.76	33	PASS
				RB1#99	22.16	23.66	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.43	22.93	33	PASS
				RB50#25	21.74	23.24	33	PASS
				RB50#50	21.78	23.28	33	PASS
				RB100#0	21.64	23.14	33	PASS
			MCH	RB1#0	21.92	23.42	33	PASS
				RB1#50	22.14	23.64	33	PASS
				RB1#99	21.92	23.42	33	PASS
				RB50#0	21.85	23.35	33	PASS
				RB50#25	21.78	23.28	33	PASS
				RB50#50	21.65	23.15	33	PASS
				RB100#0	21.74	23.24	33	PASS
			HCH	RB1#0	22.16	23.66	33	PASS
				RB1#50	22.26	23.76	33	PASS
				RB1#99	22.09	23.59	33	PASS
				RB50#0	21.65	23.15	33	PASS
				RB50#25	21.76	23.26	33	PASS
				RB50#50	21.77	23.27	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	21.77	23.27	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,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + 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	5.11	13	PASS
				RB1#13	5.02	13	PASS
				RB1#24	5.09	13	PASS
				RB12#0	5.52	13	PASS
				RB12#6	5.38	13	PASS
				RB12#13	5.65	13	PASS
				RB25#0	5.77	13	PASS
			MCH	RB1#0	5.02	13	PASS
				RB1#13	4.91	13	PASS
				RB1#24	5.02	13	PASS
				RB12#0	5.41	13	PASS
				RB12#6	5.35	13	PASS
				RB12#13	5.41	13	PASS
				RB25#0	5.77	13	PASS
			HCH	RB1#0	4.87	13	PASS
				RB1#13	4.78	13	PASS
				RB1#24	4.88	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.34	13	PASS
				RB12#13	5.48	13	PASS
				RB25#0	5.79	13	PASS
		10	LCH	RB1#0	4.63	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.83	13	PASS
				RB25#0	5.55	13	PASS
				RB25#13	5.5	13	PASS
				RB25#25	5.65	13	PASS
				RB50#0	5.86	13	PASS
			MCH	RB1#0	4.72	13	PASS
				RB1#25	4.67	13	PASS
				RB1#49	4.74	13	PASS
				RB25#0	5.72	13	PASS
				RB25#13	5.61	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.56	13	PASS
				RB50#0	5.92	13	PASS
			HCH	RB1#0	4.77	13	PASS
				RB1#25	4.74	13	PASS
				RB1#49	4.87	13	PASS
				RB25#0	5.55	13	PASS
				RB25#13	5.58	13	PASS
				RB25#25	5.61	13	PASS
				RB50#0	5.93	13	PASS
			LCH	RB1#0	4.94	13	PASS
				RB1#38	4.75	13	PASS
				RB1#74	4.88	13	PASS
				RB36#0	5.71	13	PASS
				RB36#18	5.58	13	PASS
				RB36#39	5.62	13	PASS
				RB75#0	6.11	13	PASS
		15	MCH	RB1#0	4.73	13	PASS
				RB1#38	4.65	13	PASS
				RB1#74	4.73	13	PASS
				RB36#0	5.84	13	PASS
				RB36#18	5.7	13	PASS
				RB36#39	5.67	13	PASS
				RB75#0	6.19	13	PASS
			HCH	RB1#0	4.95	13	PASS
				RB1#38	4.73	13	PASS
				RB1#74	4.86	13	PASS
				RB36#0	5.77	13	PASS
				RB36#18	5.67	13	PASS
				RB36#39	5.66	13	PASS
				RB75#0	6.15	13	PASS
		20	LCH	RB1#0	4.96	13	PASS
				RB1#50	4.95	13	PASS
				RB1#99	5.12	13	PASS
				RB50#0	5.74	13	PASS
				RB50#25	5.76	13	PASS
				RB50#50	5.74	13	PASS
				RB100#0	5.98	13	PASS
			MCH	RB1#0	5.02	13	PASS
				RB1#50	4.84	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	5	13	PASS
				RB50#0	5.79	13	PASS
				RB50#25	5.67	13	PASS
				RB50#50	5.64	13	PASS
				RB100#0	6.17	13	PASS
			HCH	RB1#0	5.07	13	PASS
				RB1#50	4.93	13	PASS
				RB1#99	5	13	PASS
				RB50#0	5.83	13	PASS
				RB50#25	5.66	13	PASS
				RB50#50	5.68	13	PASS
				RB100#0	6.07	13	PASS
			LCH	RB1#0	5.71	13	PASS
				RB1#13	5.58	13	PASS
				RB1#24	5.71	13	PASS
				RB12#0	6.34	13	PASS
				RB12#6	6.18	13	PASS
				RB12#13	6.16	13	PASS
				RB25#0	6.57	13	PASS
			MCH	RB1#0	5.61	13	PASS
	LTE/TM2	5		RB1#13	5.42	13	PASS
				RB1#24	5.51	13	PASS
				RB12#0	5.75	13	PASS
				RB12#6	5.88	13	PASS
				RB12#13	6.08	13	PASS
				RB25#0	6.34	13	PASS
			HCH	RB1#0	5.13	13	PASS
				RB1#13	4.94	13	PASS
				RB1#24	5.04	13	PASS
				RB12#0	5.57	13	PASS
				RB12#6	5.72	13	PASS
				RB12#13	5.66	13	PASS
				RB25#0	6.02	13	PASS
		10	LCH	RB1#0	5.46	13	PASS
				RB1#25	5.04	13	PASS
				RB1#49	5.44	13	PASS
				RB25#0	6.07	13	PASS
				RB25#13	5.95	13	PASS
				RB25#25	6.04	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.37	13	PASS
			MCH	RB1#0	5.42	13	PASS
				RB1#25	5.01	13	PASS
				RB1#49	5.37	13	PASS
				RB25#0	6.03	13	PASS
				RB25#13	6.23	13	PASS
				RB25#25	6.25	13	PASS
				RB50#0	6.66	13	PASS
			HCH	RB1#0	5.46	13	PASS
				RB1#25	5.26	13	PASS
				RB1#49	5.21	13	PASS
				RB25#0	6.04	13	PASS
				RB25#13	5.94	13	PASS
				RB25#25	5.91	13	PASS
				RB50#0	6.46	13	PASS
			LCH	RB1#0	5.77	13	PASS
				RB1#38	5.4	13	PASS
				RB1#74	5.83	13	PASS
				RB36#0	6.32	13	PASS
				RB36#18	6.35	13	PASS
				RB36#39	6.31	13	PASS
				RB75#0	6.94	13	PASS
		15	MCH	RB1#0	5.68	13	PASS
				RB1#38	5.14	13	PASS
				RB1#74	5.31	13	PASS
				RB36#0	6.21	13	PASS
				RB36#18	6.19	13	PASS
				RB36#39	6.3	13	PASS
				RB75#0	6.69	13	PASS
			HCH	RB1#0	5.62	13	PASS
				RB1#38	5.14	13	PASS
				RB1#74	5.44	13	PASS
				RB36#0	6.07	13	PASS
				RB36#18	5.99	13	PASS
				RB36#39	5.94	13	PASS
				RB75#0	6.57	13	PASS
		20	LCH	RB1#0	5.47	13	PASS
				RB1#50	4.99	13	PASS
				RB1#99	5.27	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.42	13	PASS
				RB50#25	6.23	13	PASS
				RB50#50	6.36	13	PASS
				RB100#0	6.74	13	PASS
			MCH	RB1#0	5.46	13	PASS
				RB1#50	5.13	13	PASS
				RB1#99	5.33	13	PASS
				RB50#0	6.1	13	PASS
				RB50#25	6.35	13	PASS
				RB50#50	6.28	13	PASS
				RB100#0	6.53	13	PASS
			HCH	RB1#0	5.2	13	PASS
				RB1#50	5.19	13	PASS
				RB1#99	5.21	13	PASS
				RB50#0	6.09	13	PASS
				RB50#25	6.12	13	PASS
				RB50#50	6.01	13	PASS
				RB100#0	6.56	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = BAND7

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB25#0
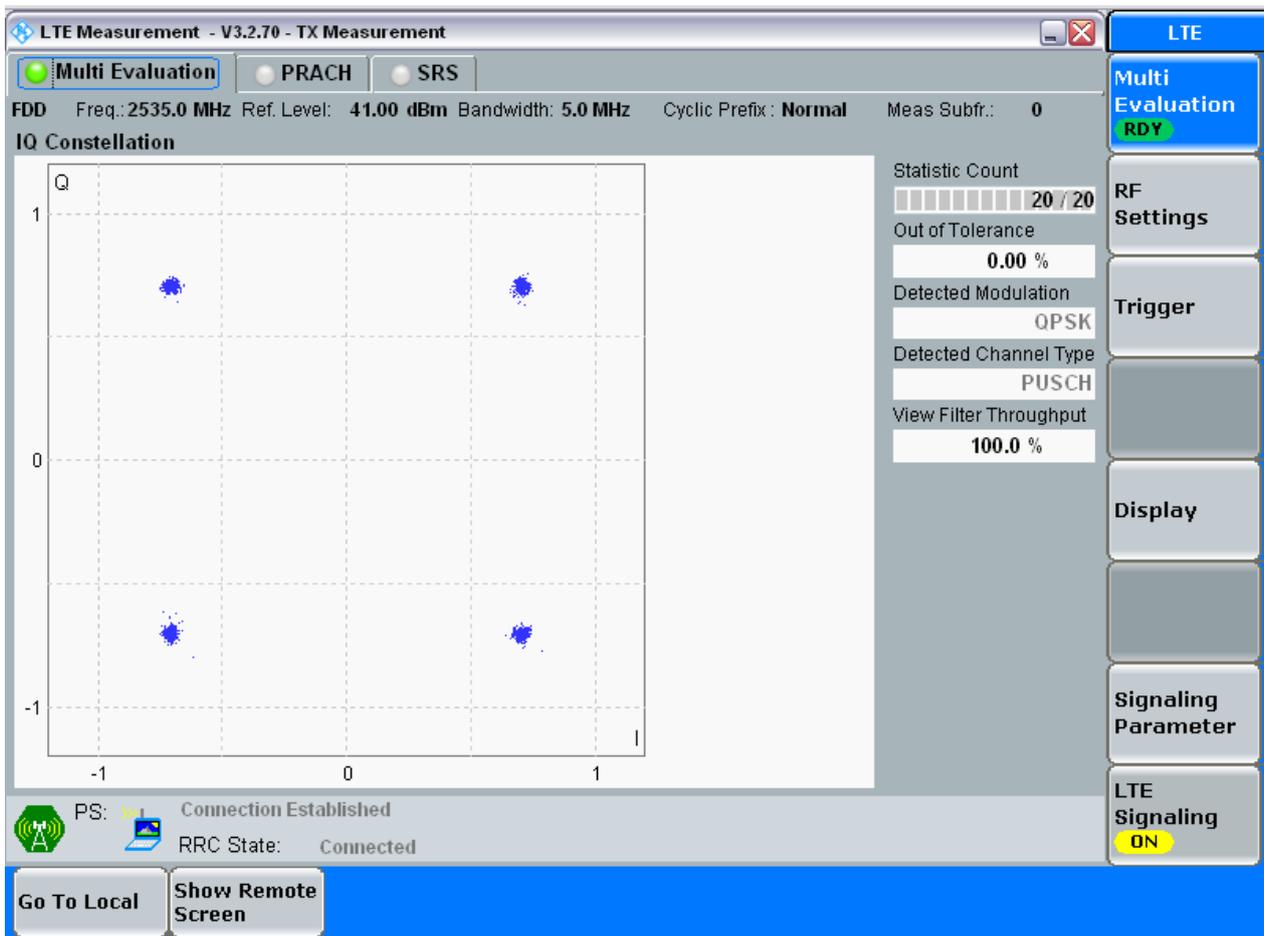
3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0
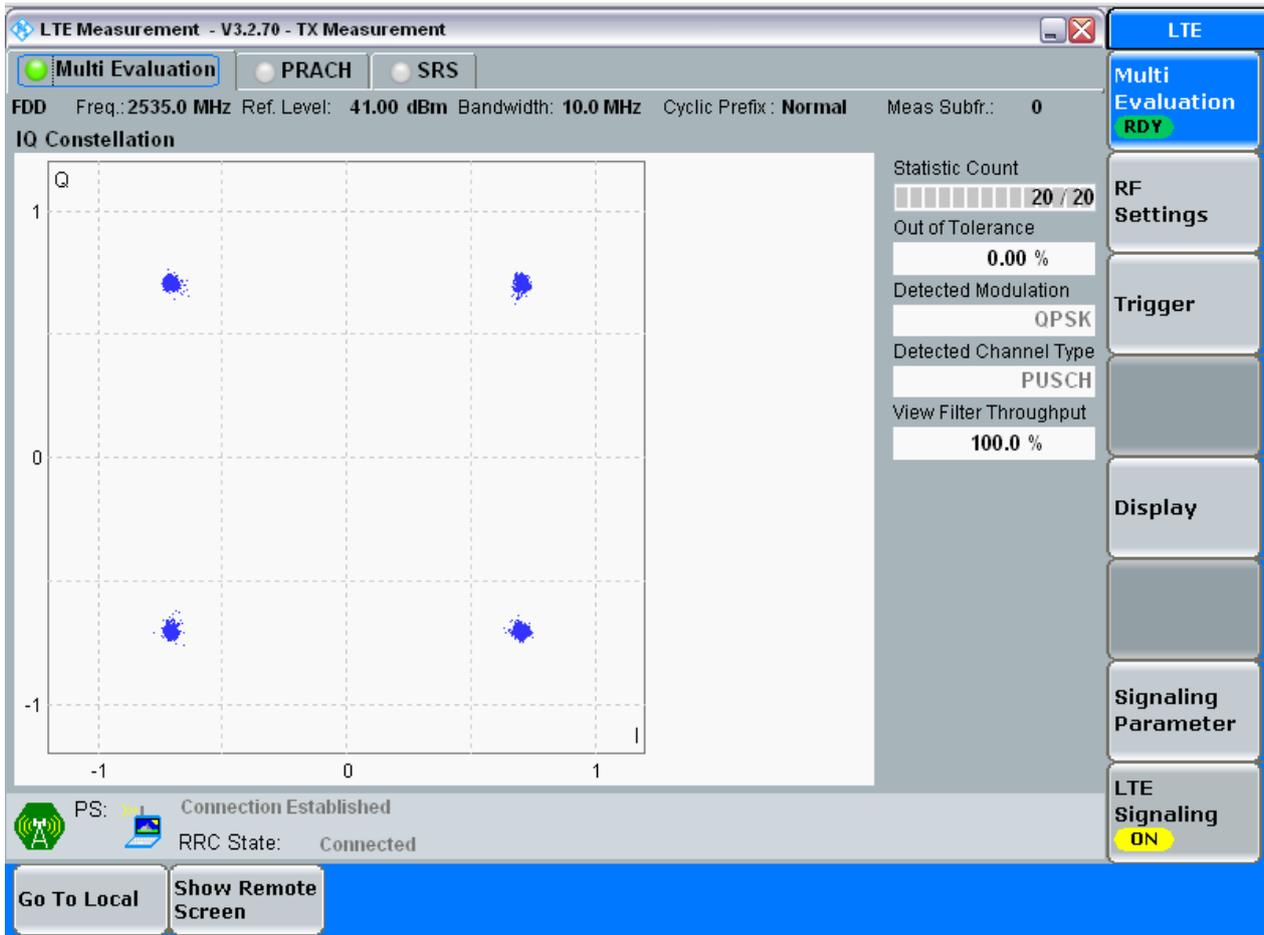
3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

3.1.1.1.3.1.1 Test RB = RB75#0
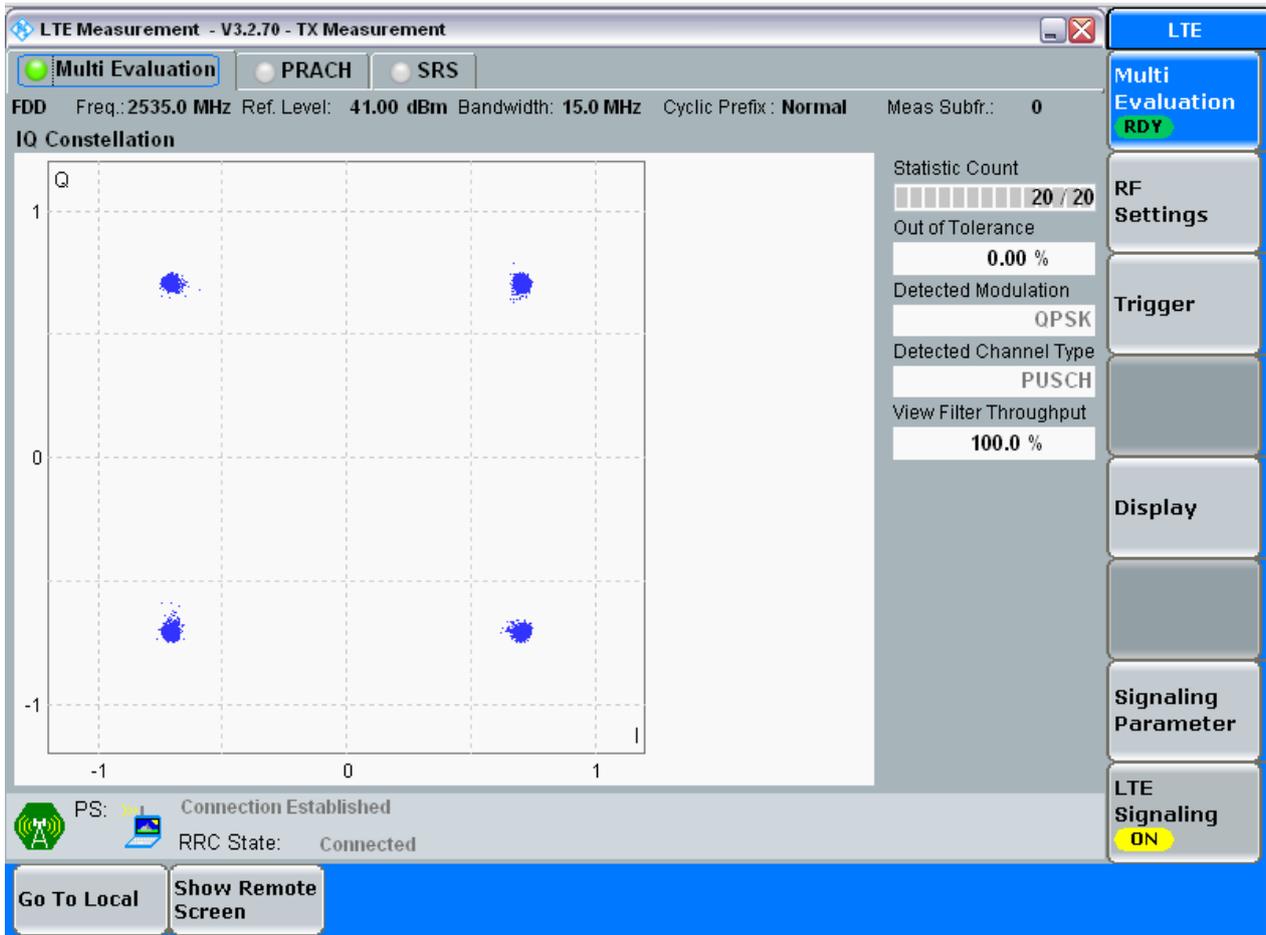
3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0
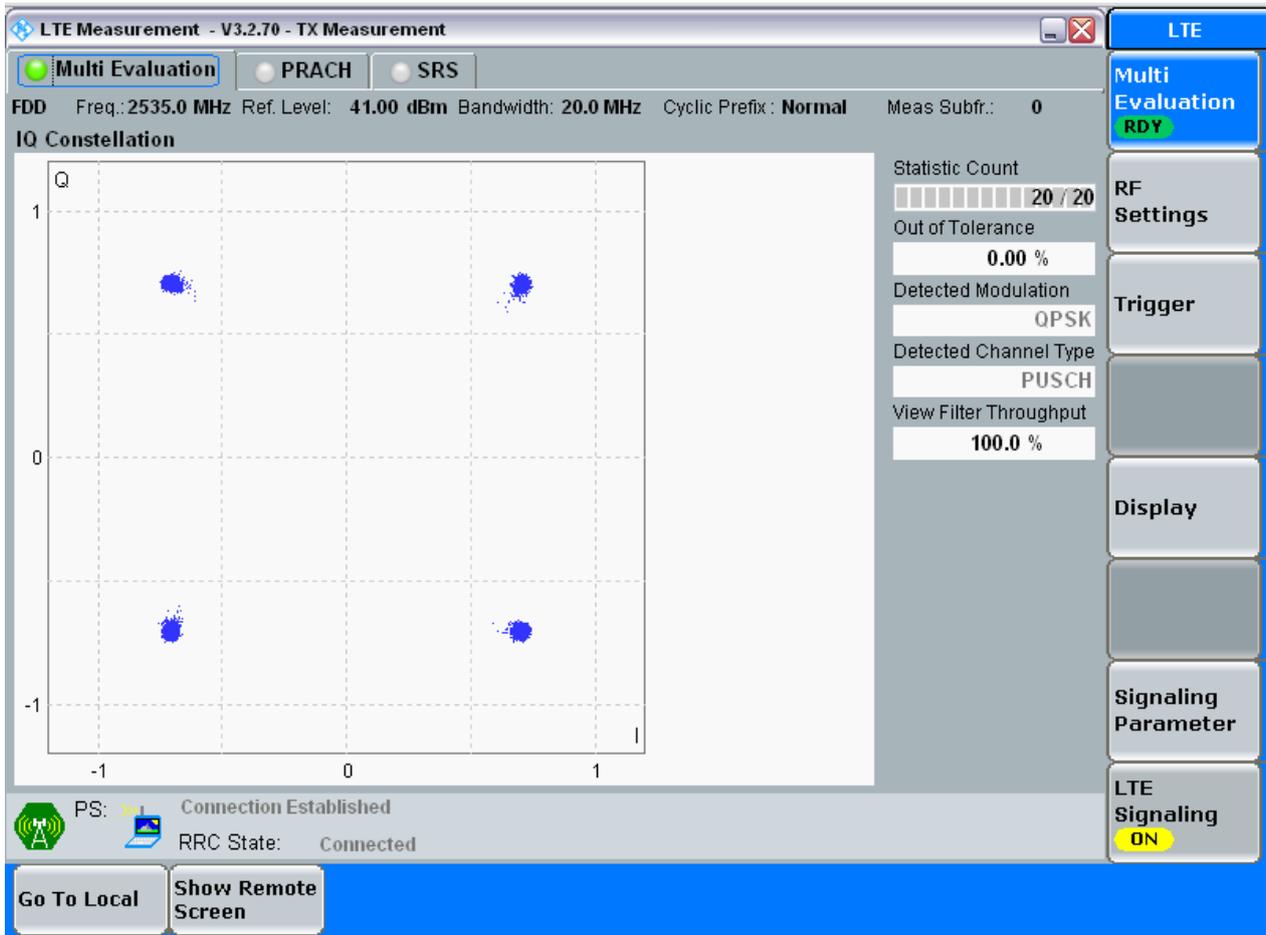
3.1.1.2 Test Mode = LTE/TM2

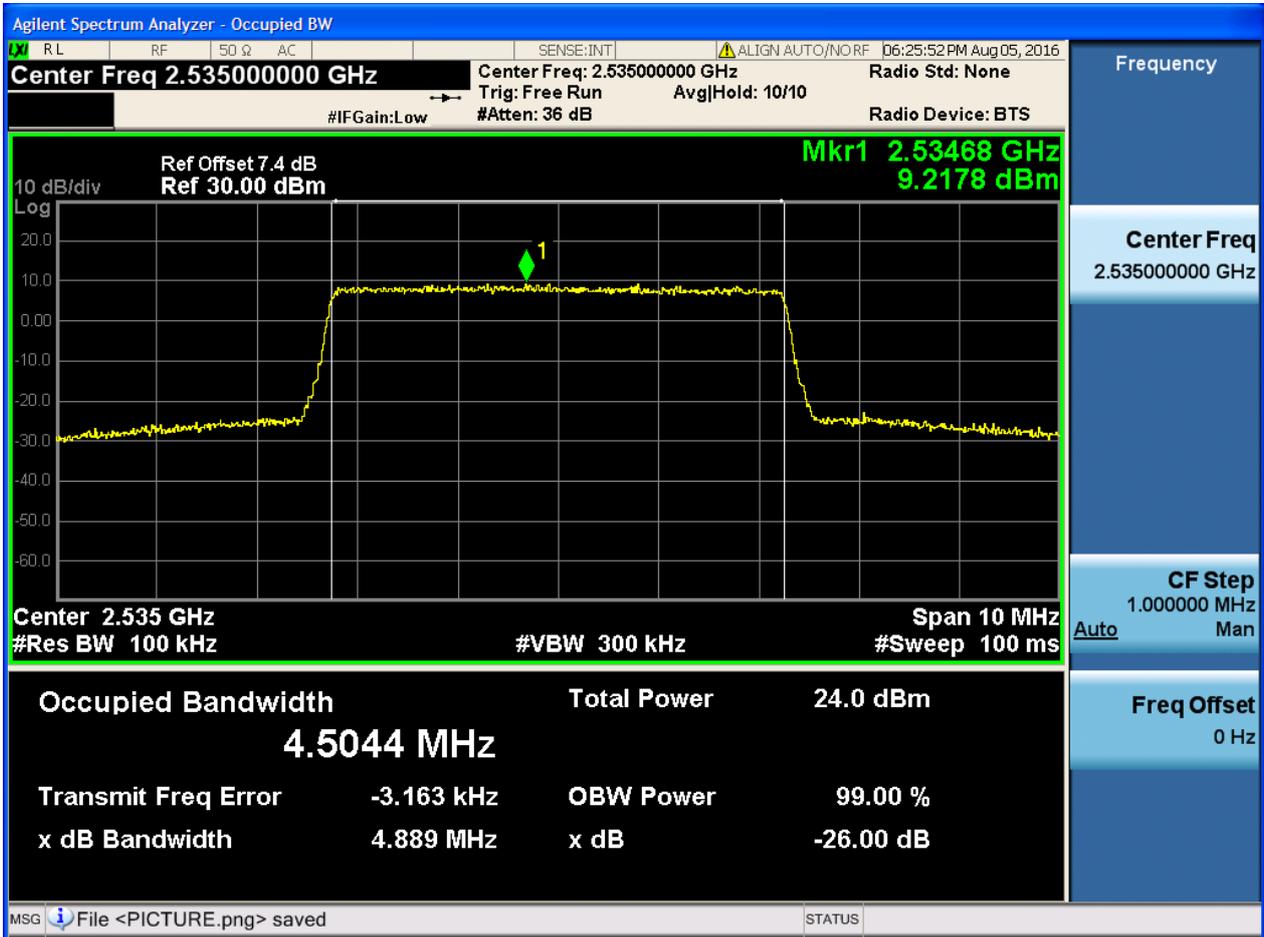### 3.1.1.2.1 Test Bandwidth = 5

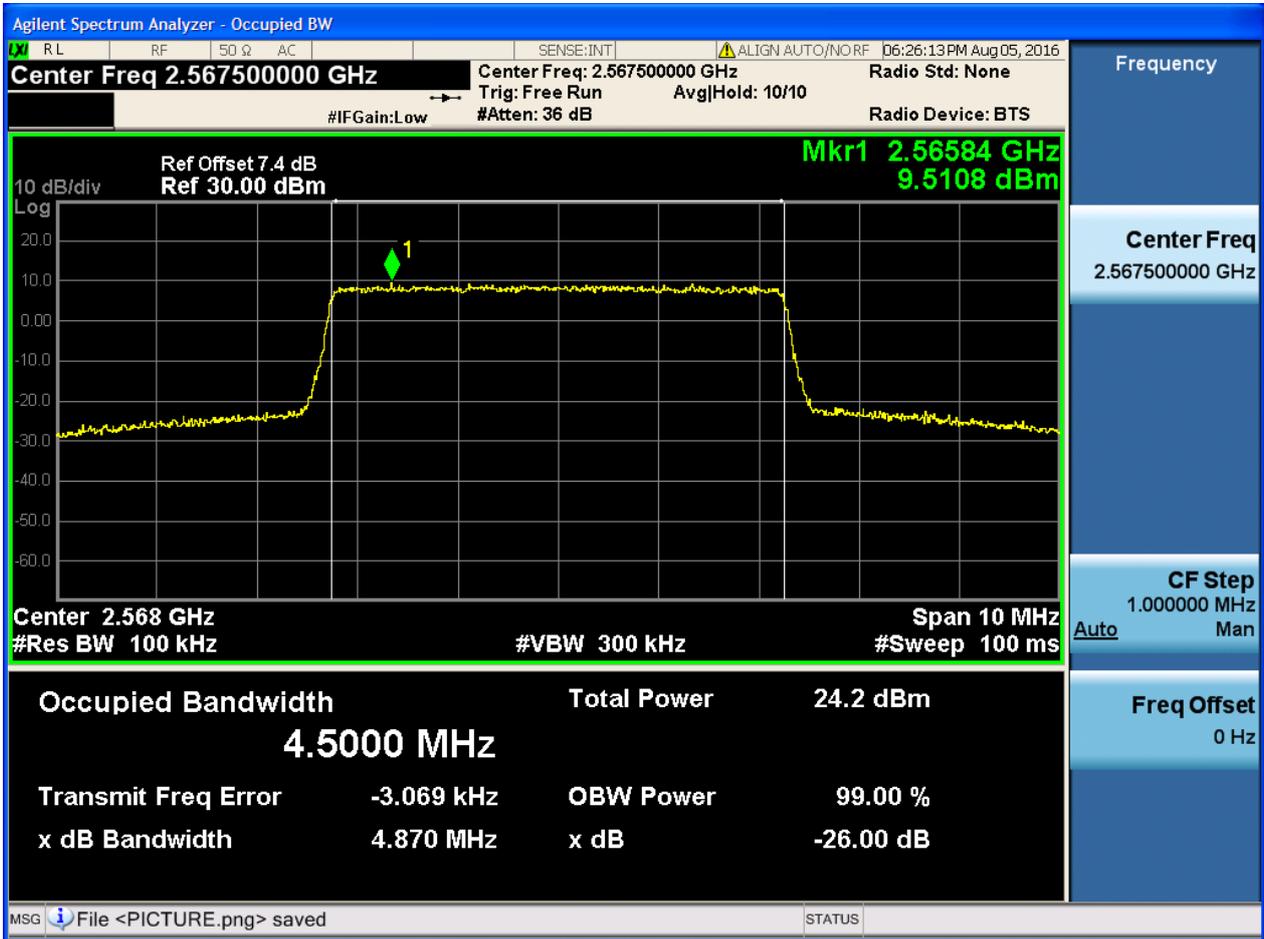### 3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 Test RB = RB25#0
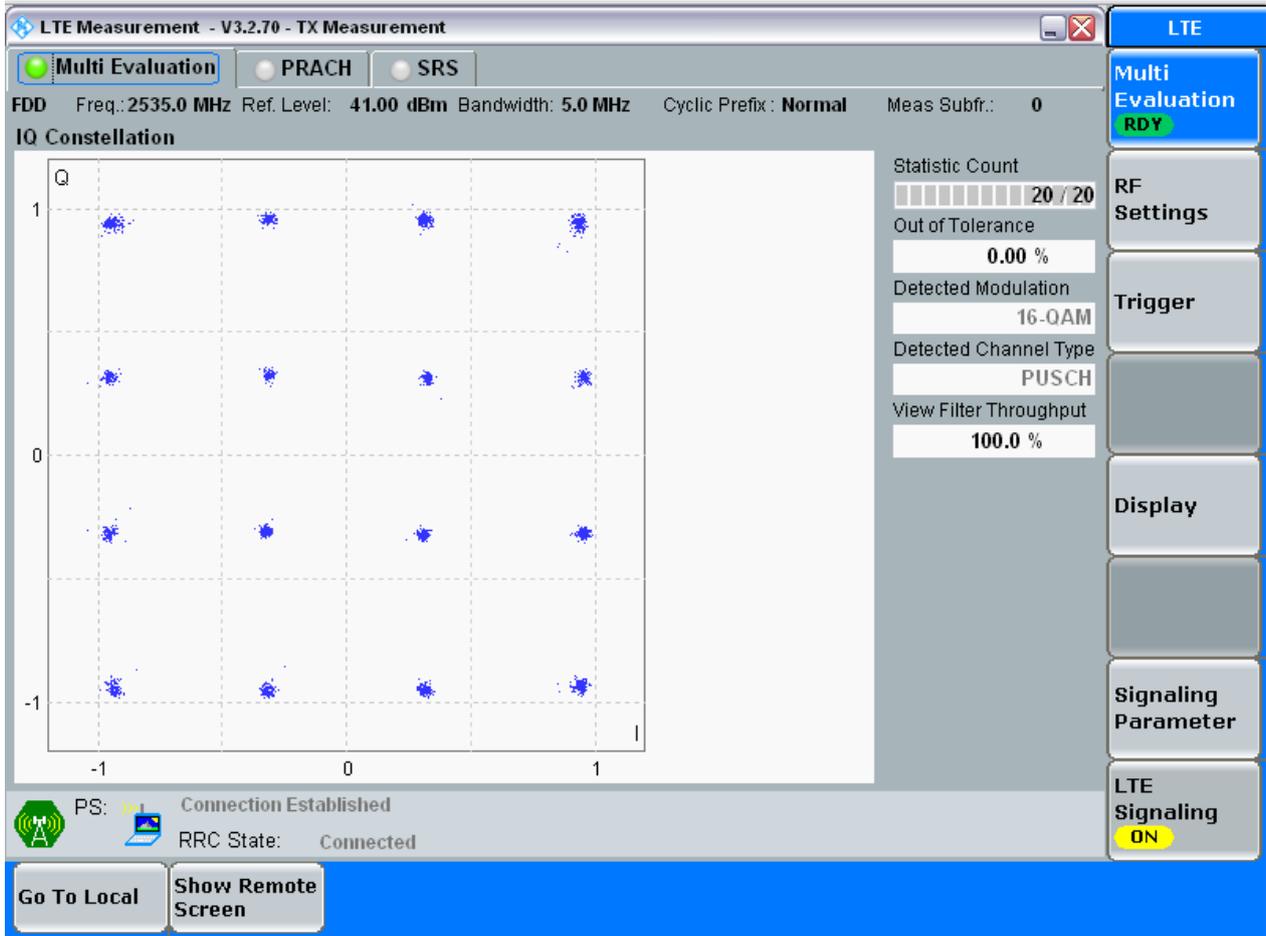
3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0
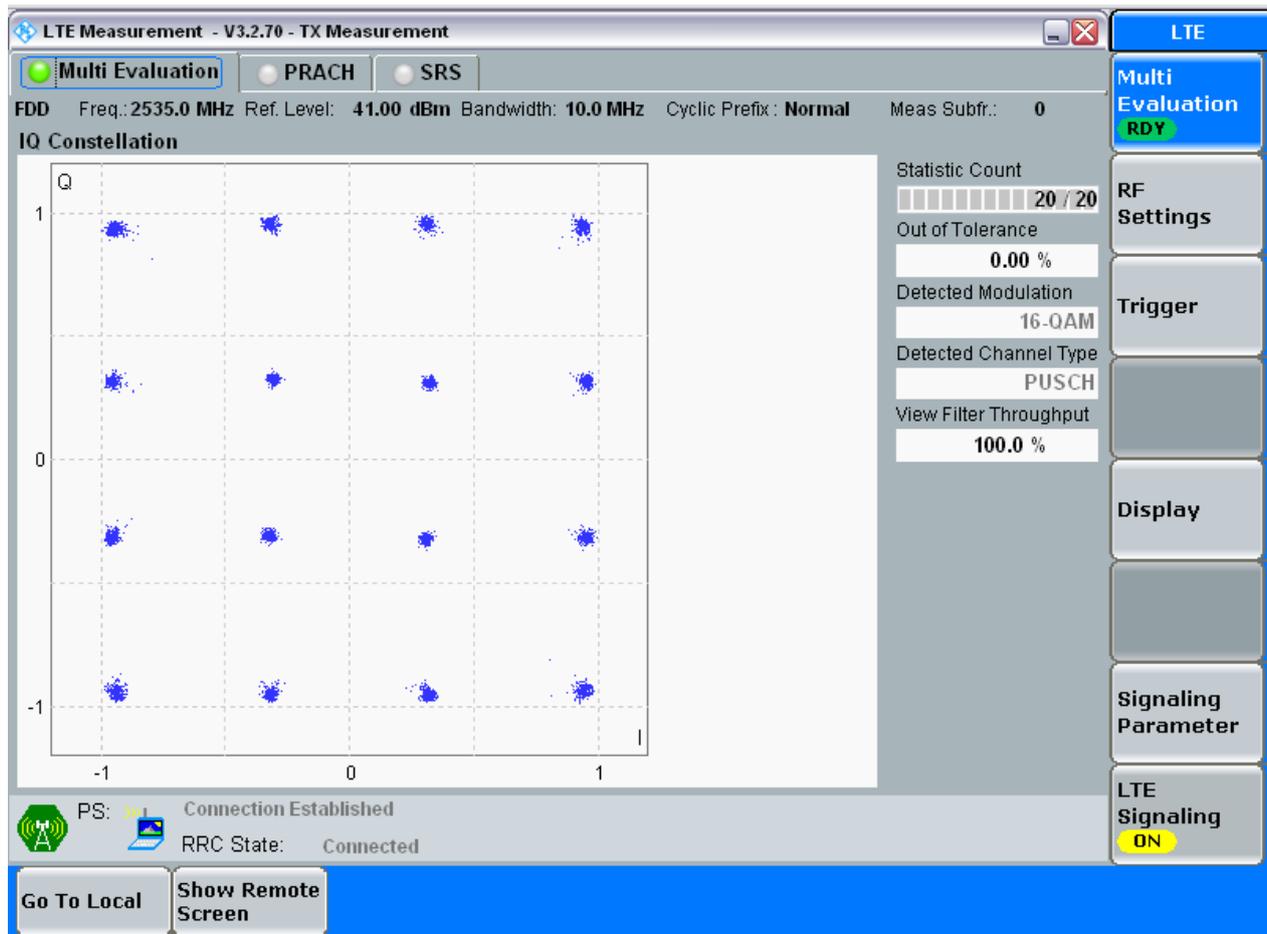
3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

3.1.1.2.3.1.1 Test RB = RB75#0
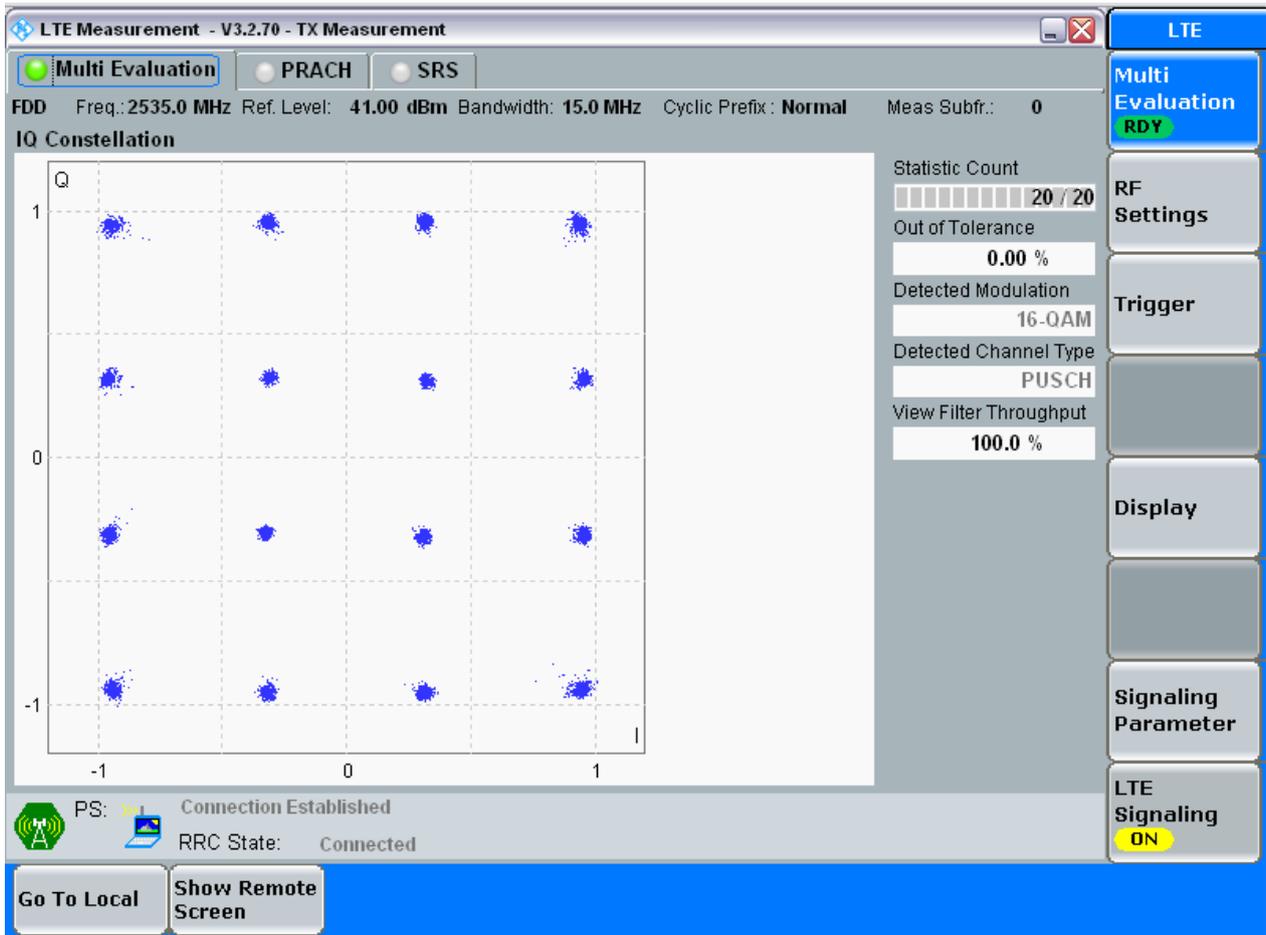
3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB100#0
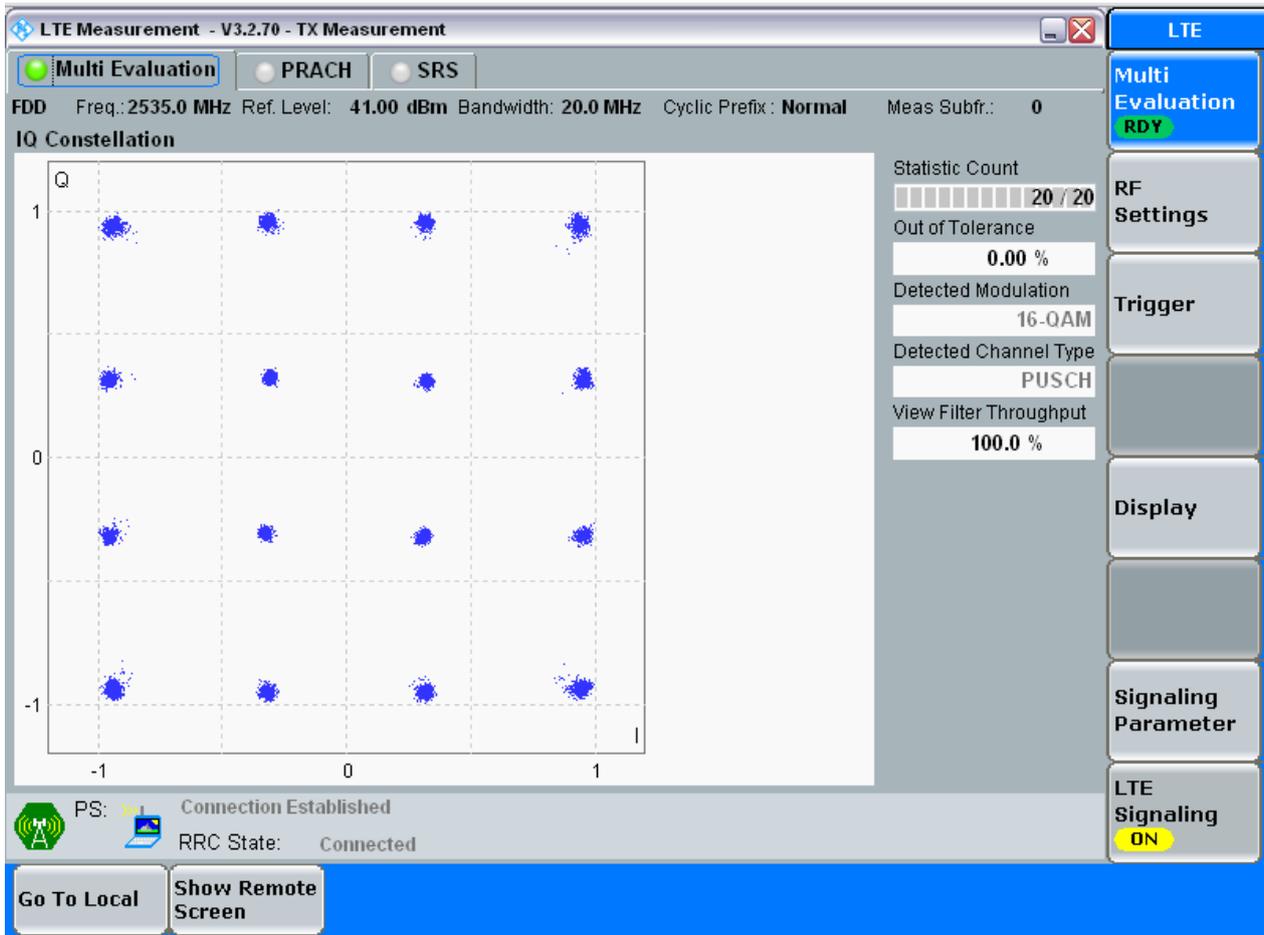
4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.91	Pass
		5	MCH	RB25#0	4.50	4.88	Pass
		5	HCH	RB25#0	4.50	4.90	Pass
		10	LCH	RB50#0	8.99	9.67	Pass
		10	MCH	RB50#0	8.99	9.60	Pass
		10	HCH	RB50#0	8.99	9.64	Pass
		15	LCH	RB75#0	13.48	14.39	Pass
		15	MCH	RB75#0	13.49	14.32	Pass
		15	HCH	RB75#0	13.47	14.42	Pass
		20	LCH	RB100#0	17.98	19.09	Pass
		20	MCH	RB100#0	17.98	19.10	Pass
		20	HCH	RB100#0	17.95	19.17	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.89	Pass
		5	MCH	RB25#0	4.50	4.89	Pass
		5	HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.99	9.67	Pass
		10	MCH	RB50#0	9.01	9.67	Pass
		10	HCH	RB50#0	9.00	9.65	Pass
		15	LCH	RB75#0	13.49	14.48	Pass
		15	MCH	RB75#0	13.47	14.35	Pass
		15	HCH	RB75#0	13.47	14.49	Pass
		20	LCH	RB100#0	18.00	19.17	Pass
		20	MCH	RB100#0	17.97	19.07	Pass
		20	HCH	RB100#0	17.97	19.12	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
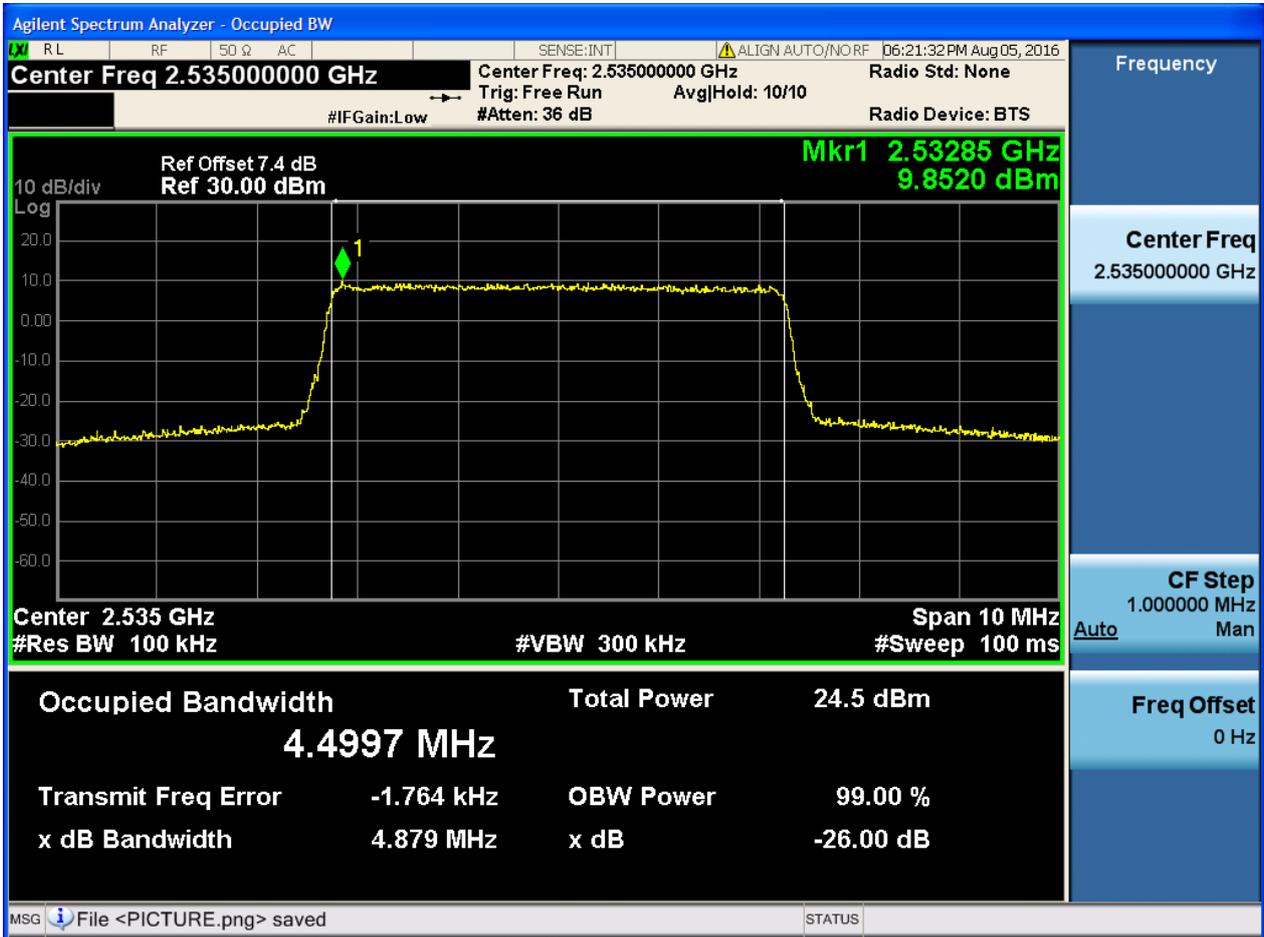
4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0
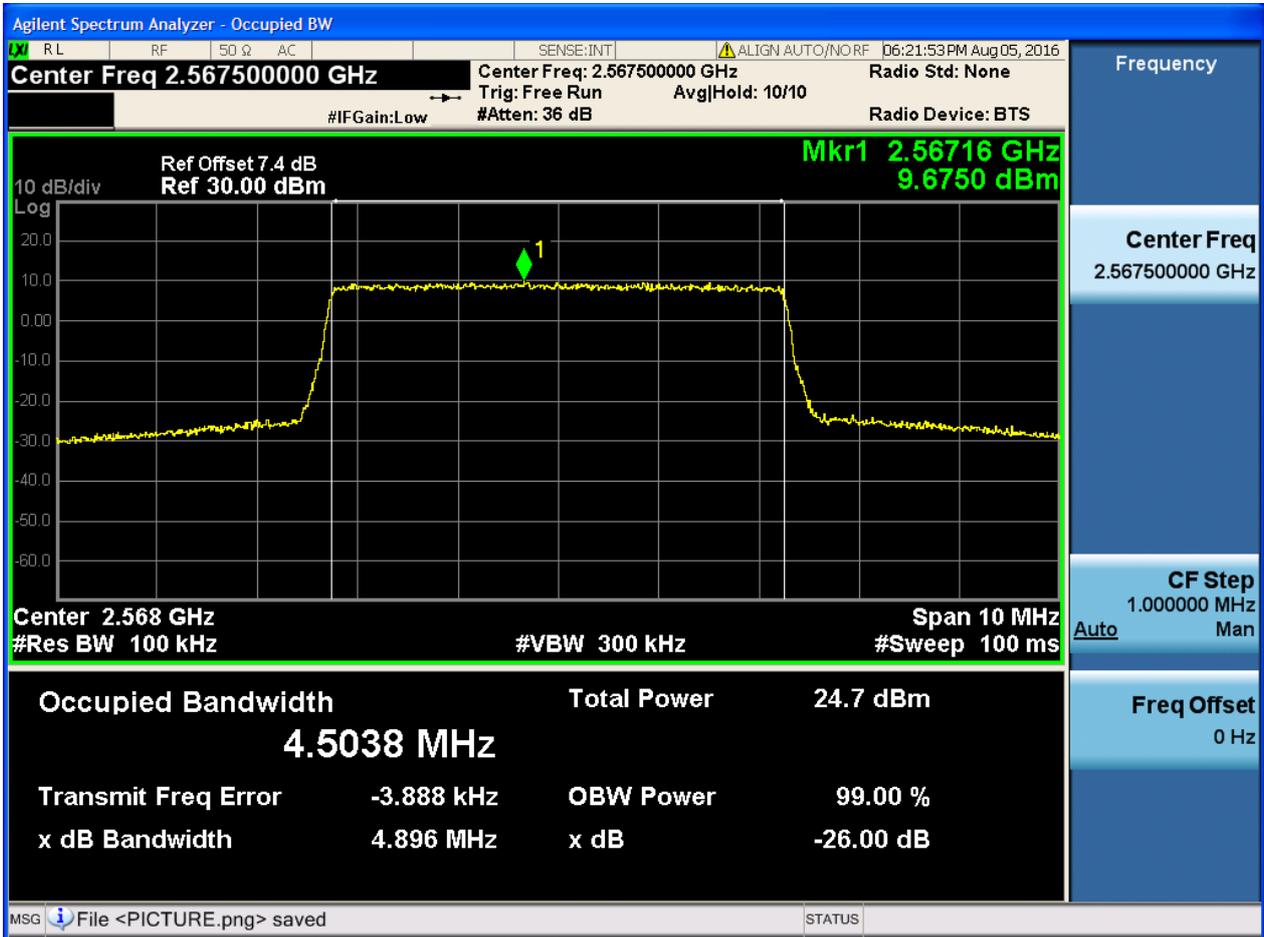
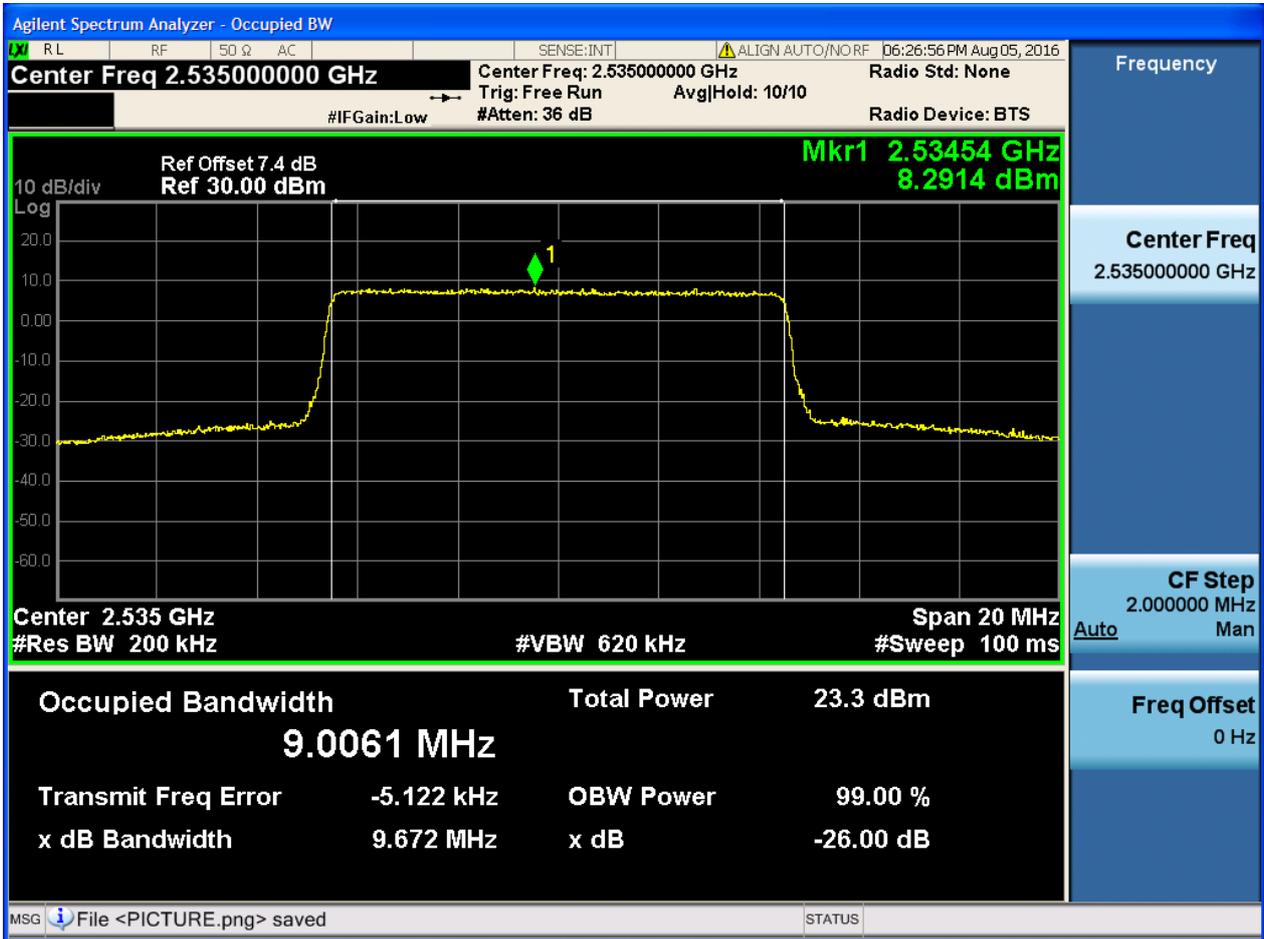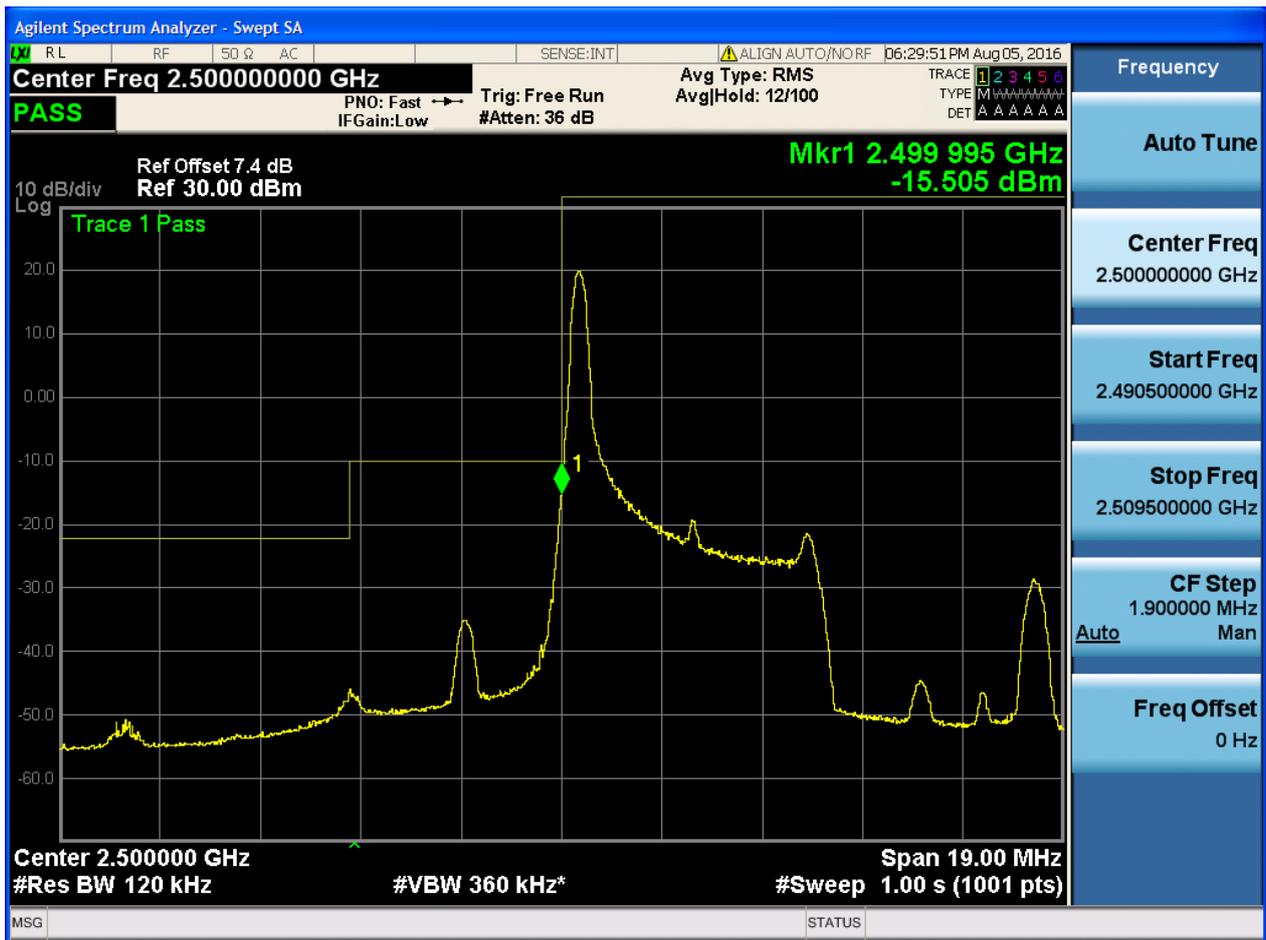## 4.1.1.1.2 Test Bandwidth = 10

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
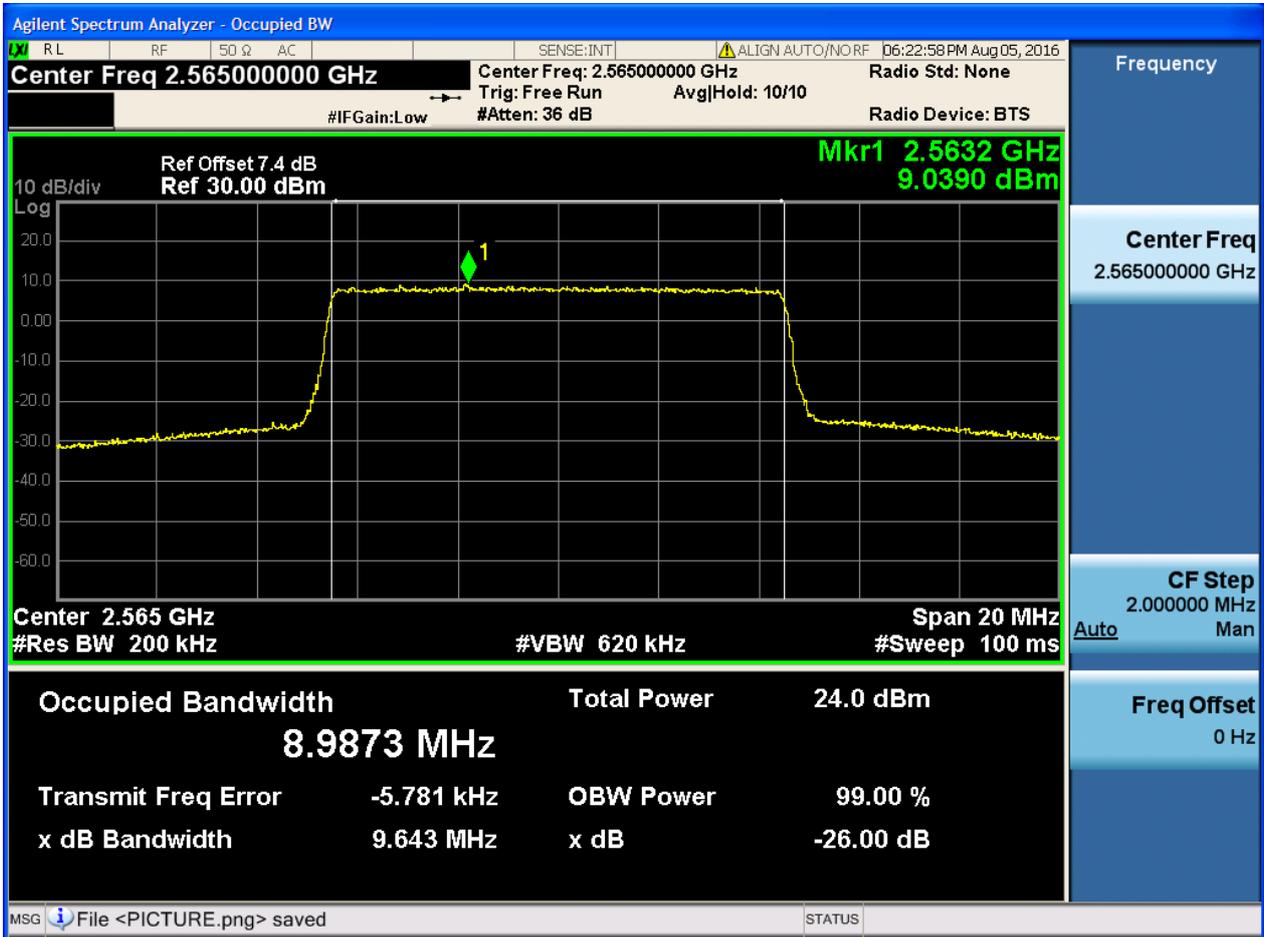
4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0
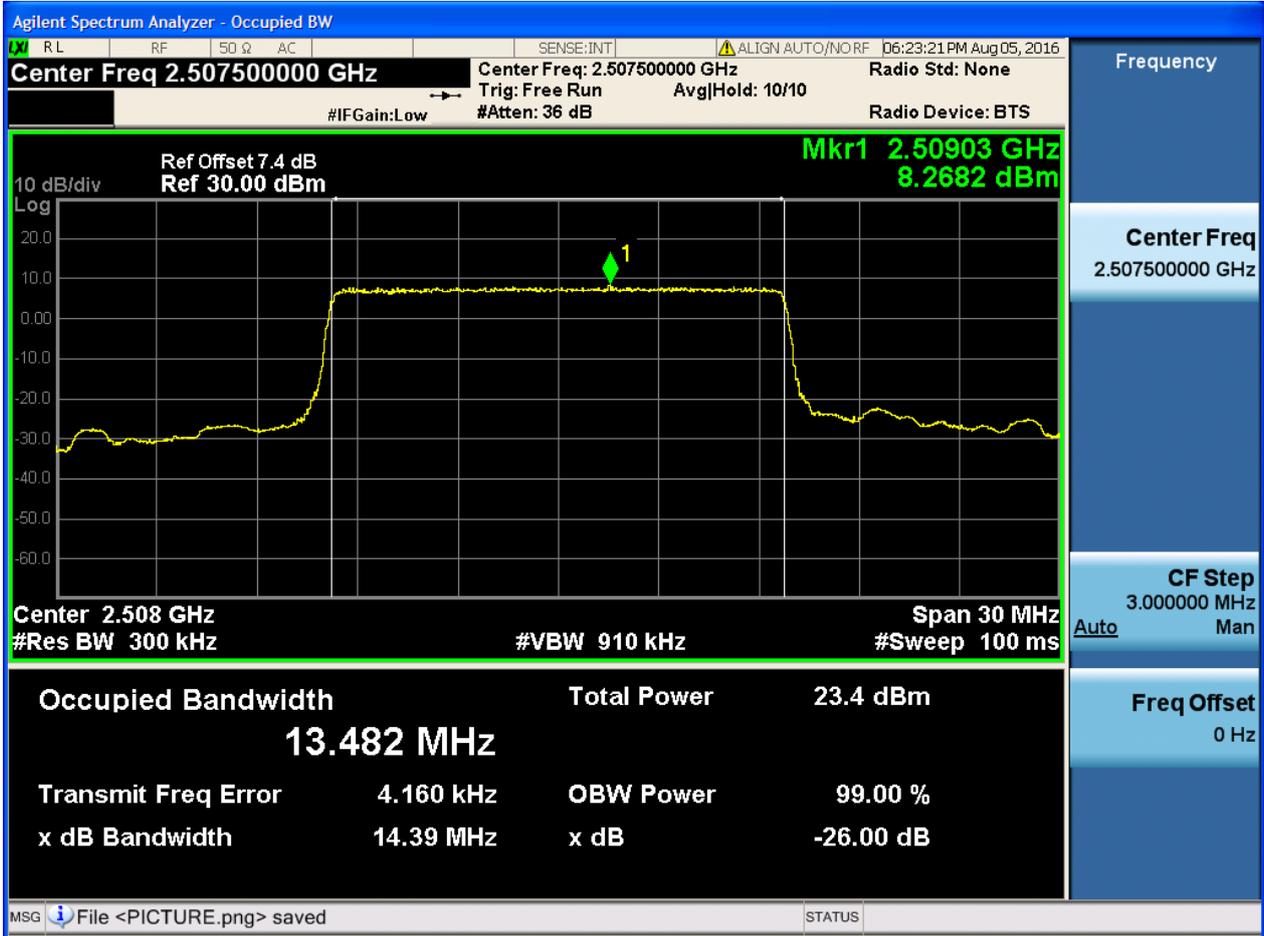
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0
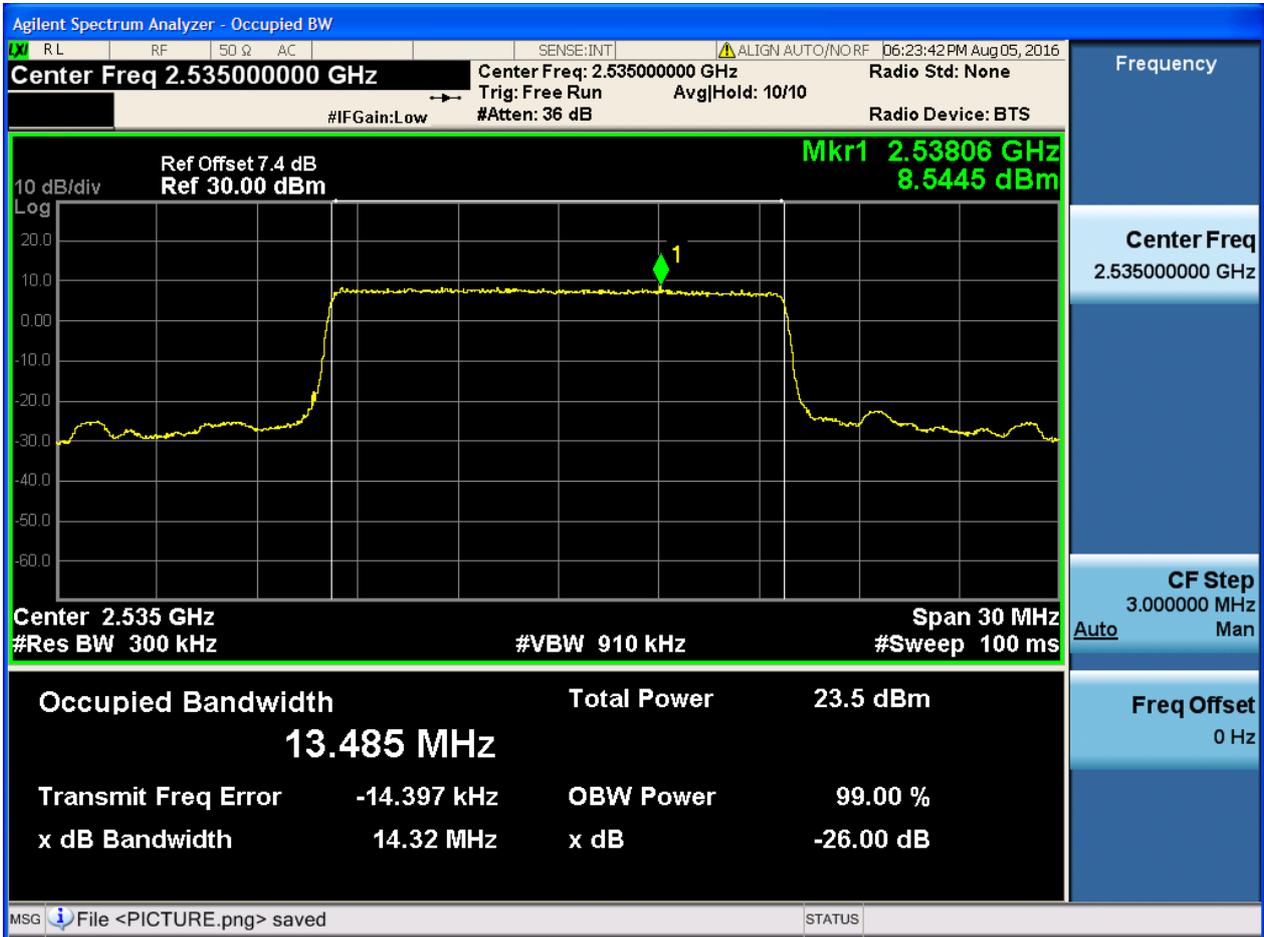
4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0
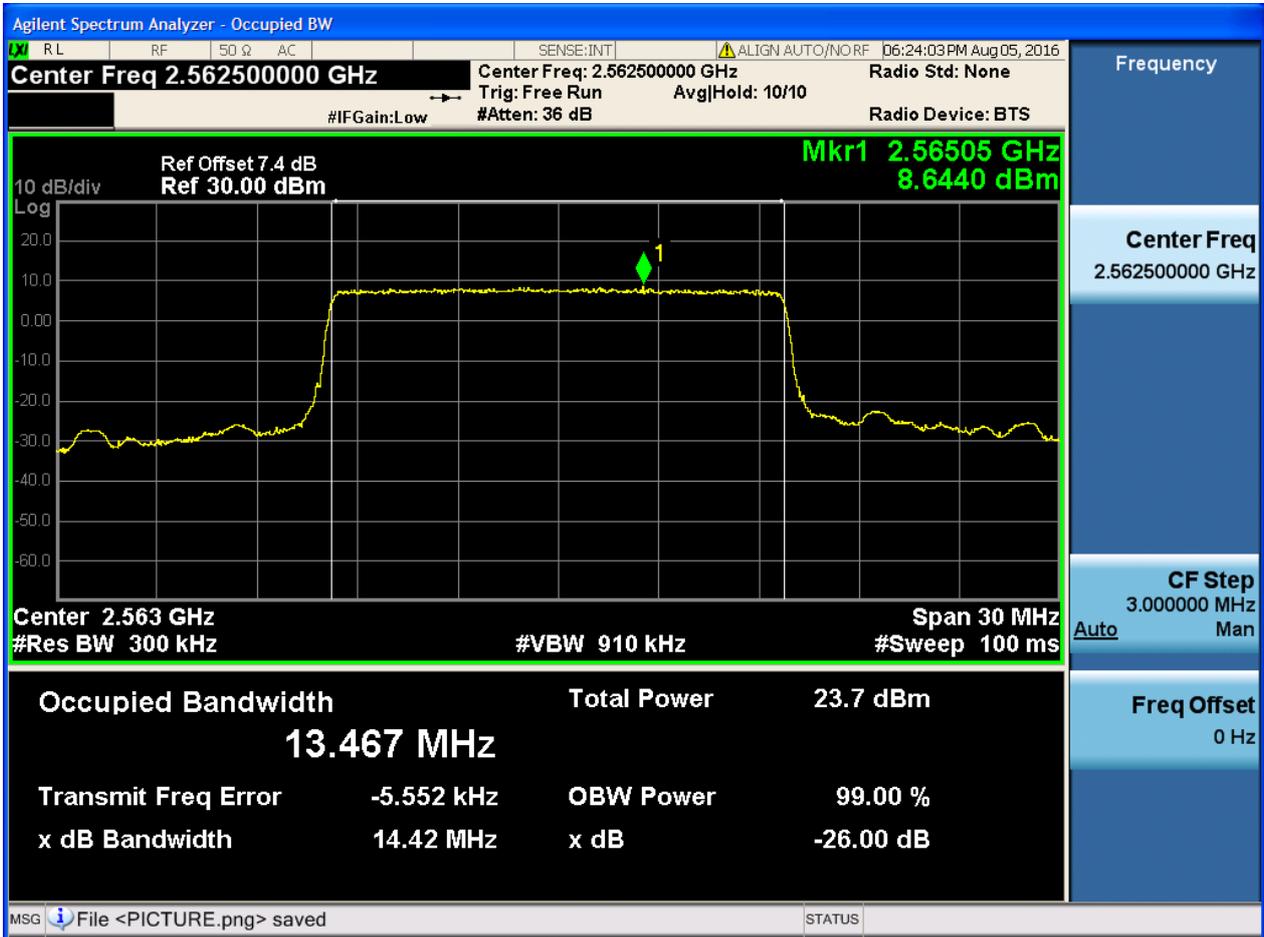
4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0
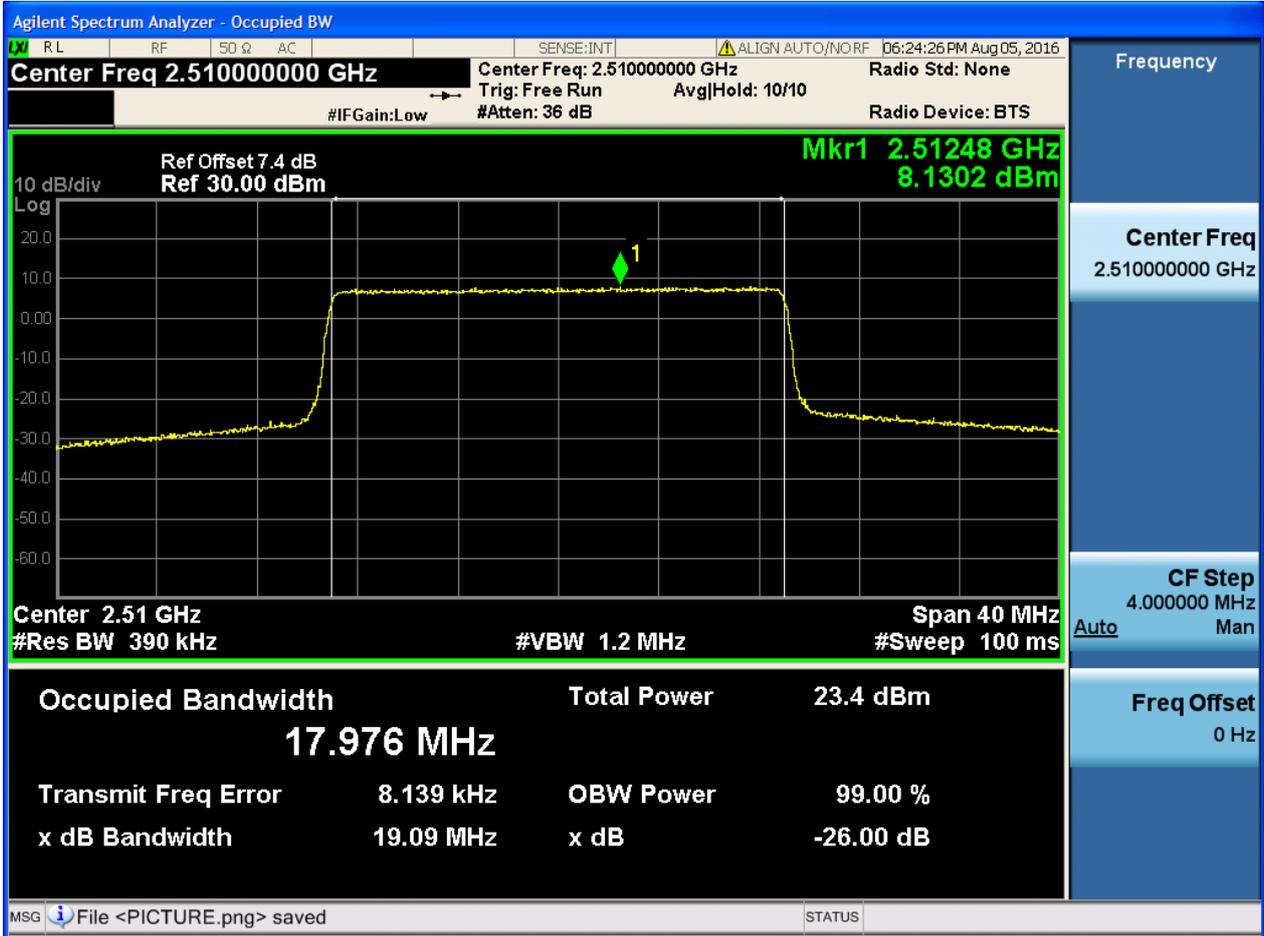
4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB100#0
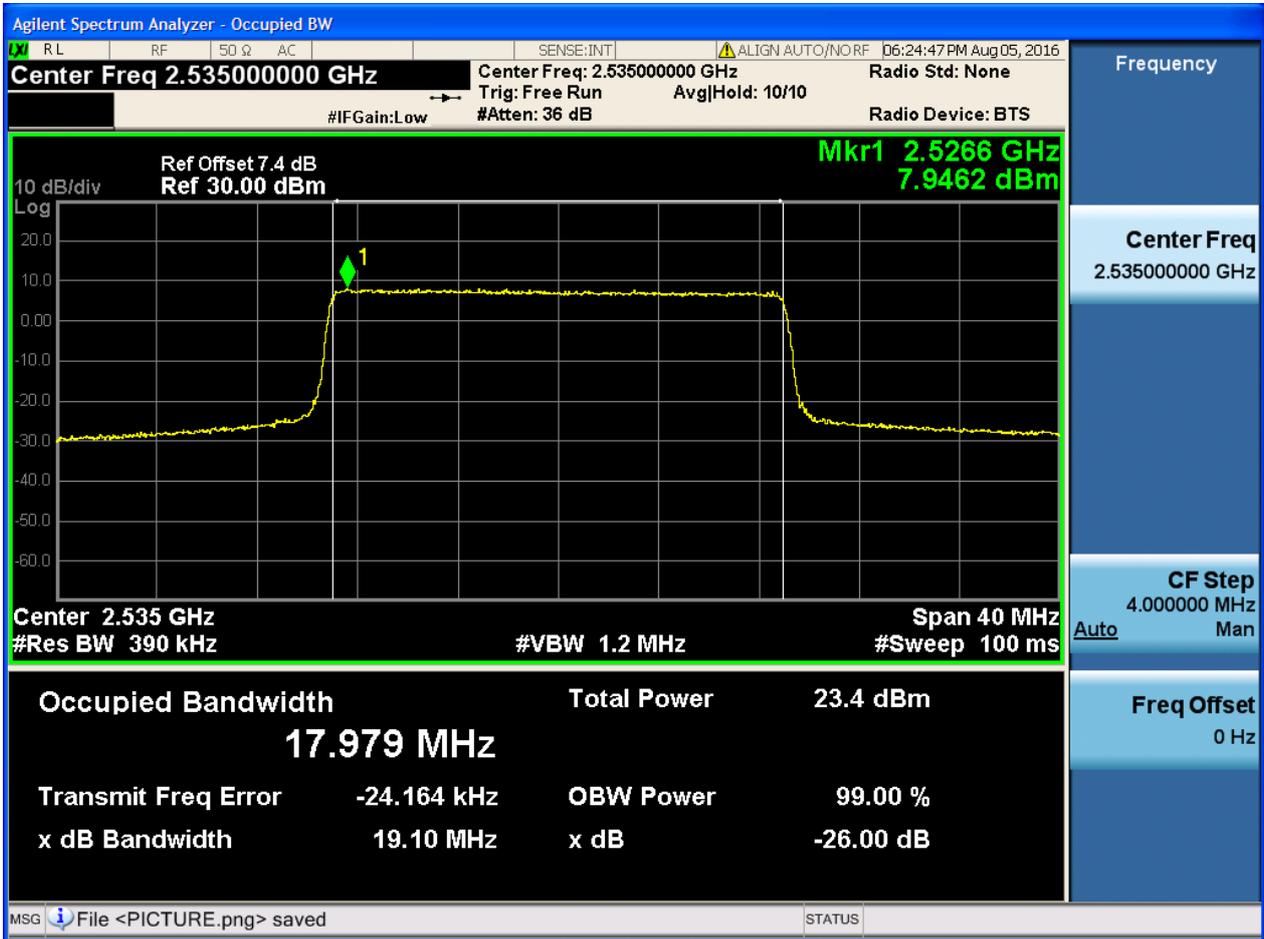
4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0
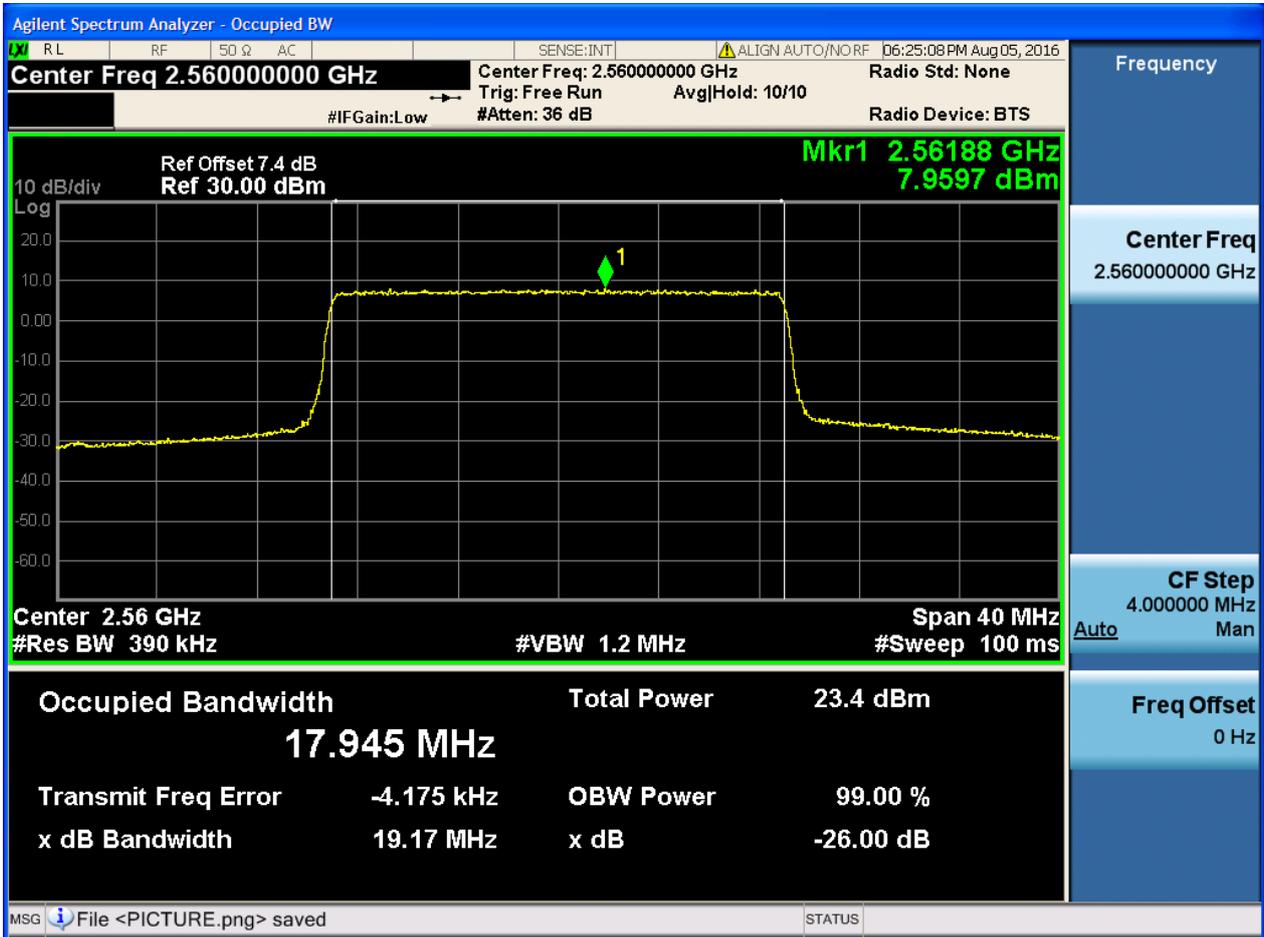
4.1.1.2 Test Mode = LTE/TM2

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
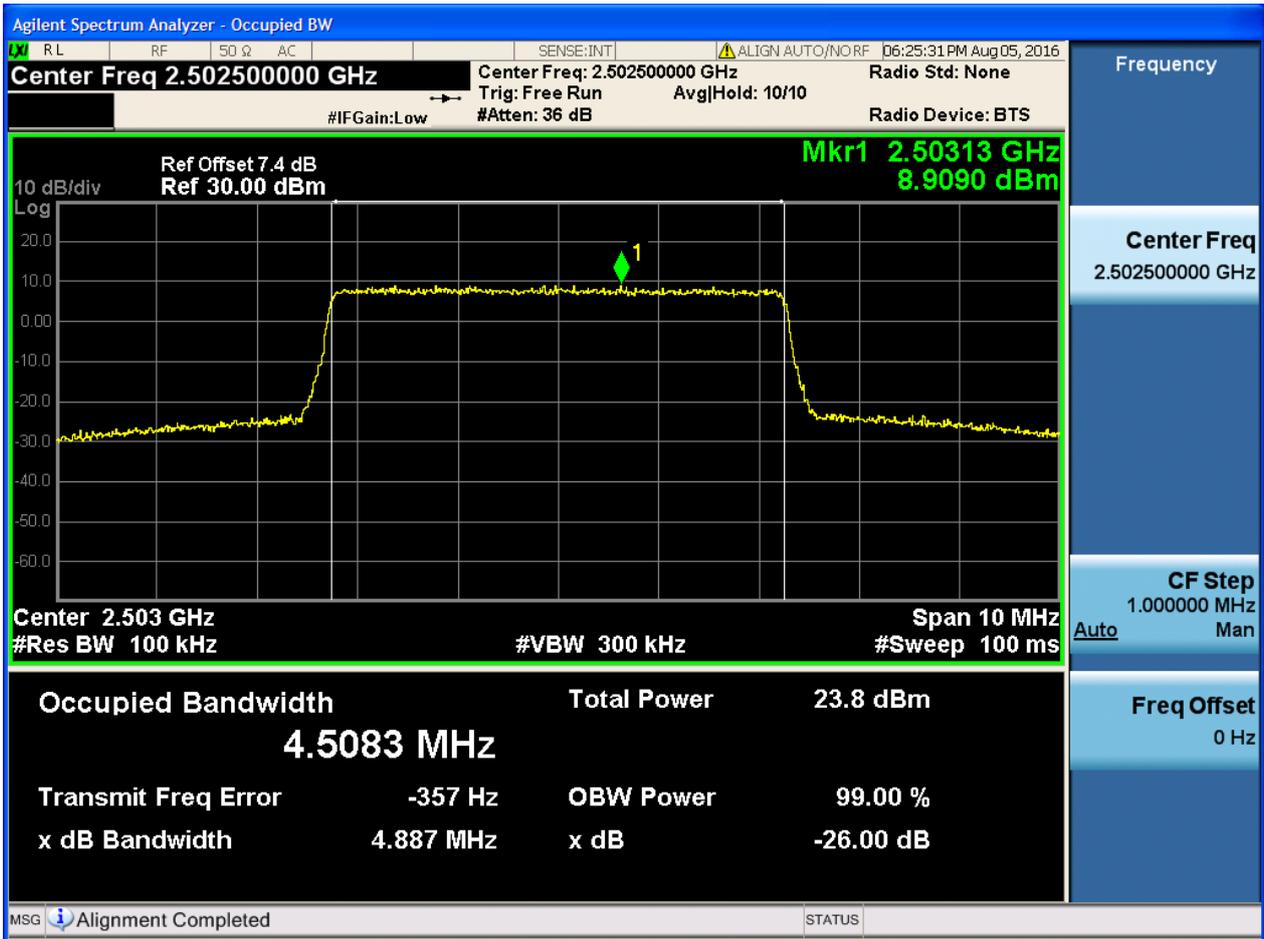
4.1.1.2.1.2 Test Channel = MCH

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

Agilent Spectrum Analyzer - Occupied BW

LXI R L   RF   50 Ω   AC   SENSE:INT   ⚠ ALIGN AUTO/NO RF   06:26:56 PM Aug 05, 2016

Center Freq 2.535000000 GHz   Center Freq: 2.535000000 GHz   Radio Std: None
                                            Trig: Free Run   Avg|Hold: 10/10
                                 #IFGain:Low   #Atten: 36 dB   Radio Device: BTS

Ref Offset 7.4 dB   Mkr1 2.53454 GHz
10 dB/div   **Ref 30.00 dBm**   8.2914 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 2.535 GHz   Span 20 MHz
#Res BW 200 kHz   #VBW 620 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	23.3 dBm
9.0061 MHz			
Transmit Freq Error	-5.122 kHz	OBW Power	99.00 %
x dB Bandwidth	9.672 MHz	x dB	-26.00 dB

MSG ⓘ File <PICTURE.png> saved   STATUS

Frequency

Center Freq
2.535000000 GHz

CF Step
2.000000 MHz
Auto   Man

Freq Offset
0 Hz

4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0
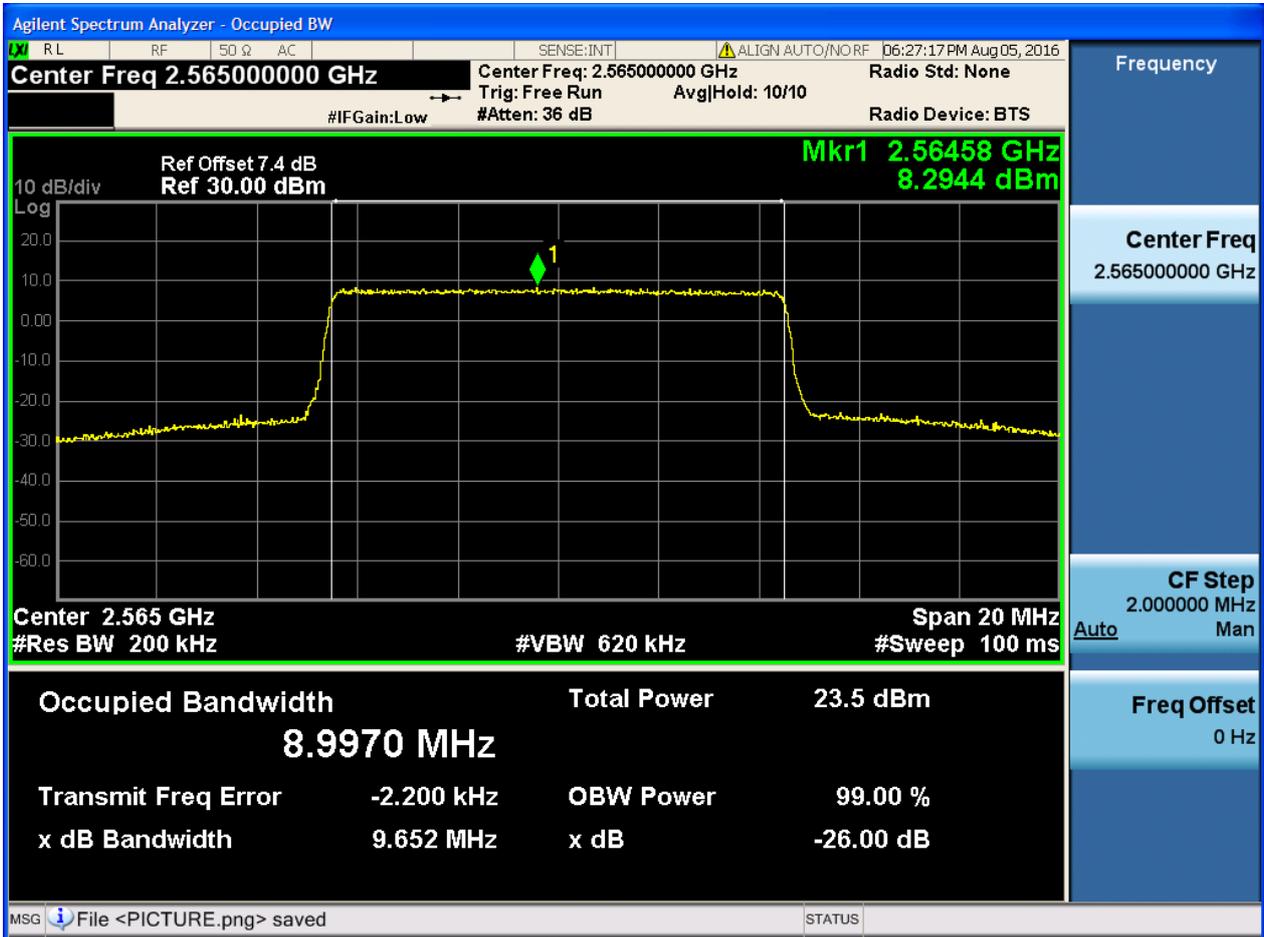
4.1.1.2.3 Test Bandwidth = 15

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
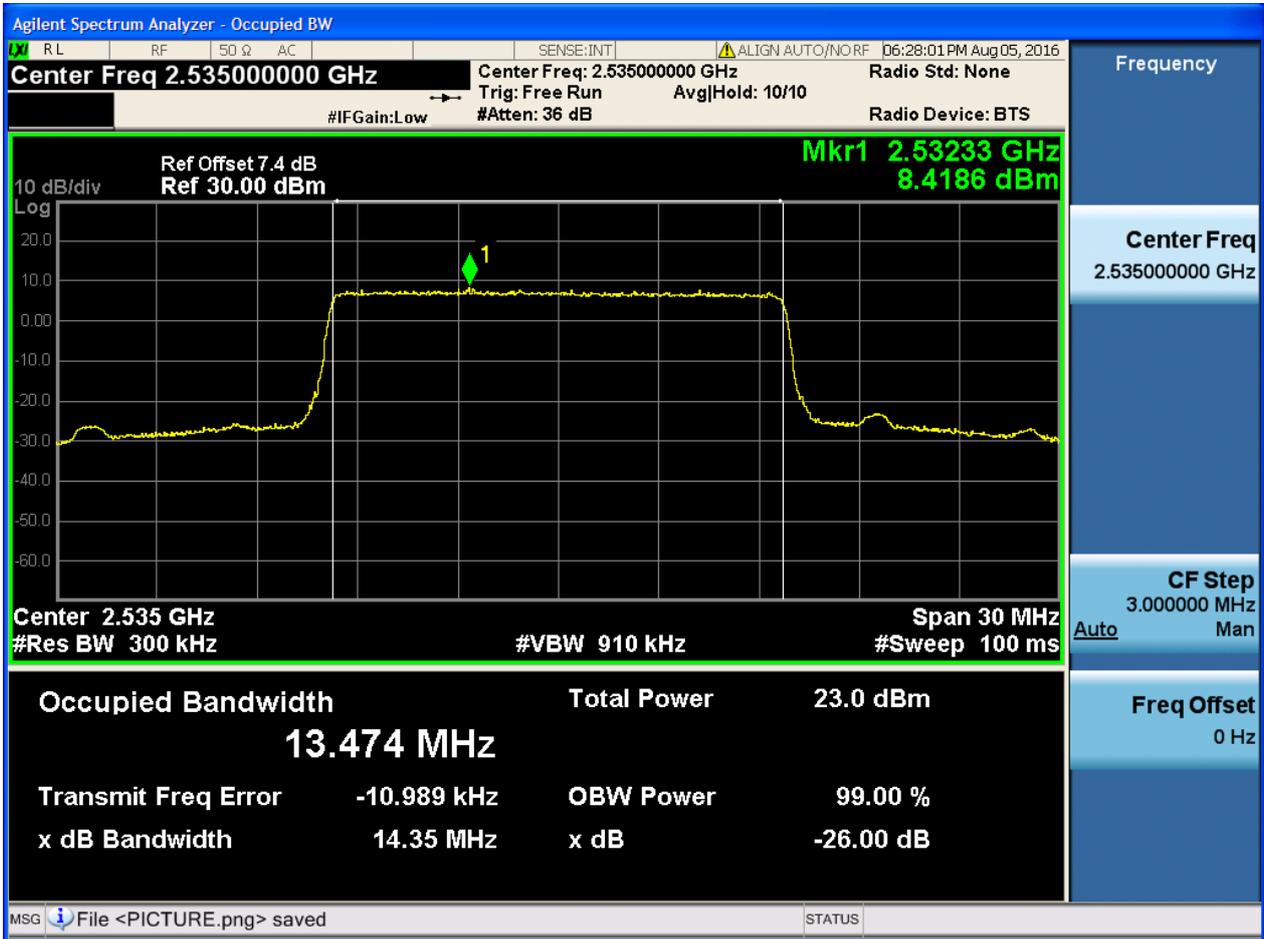
4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0
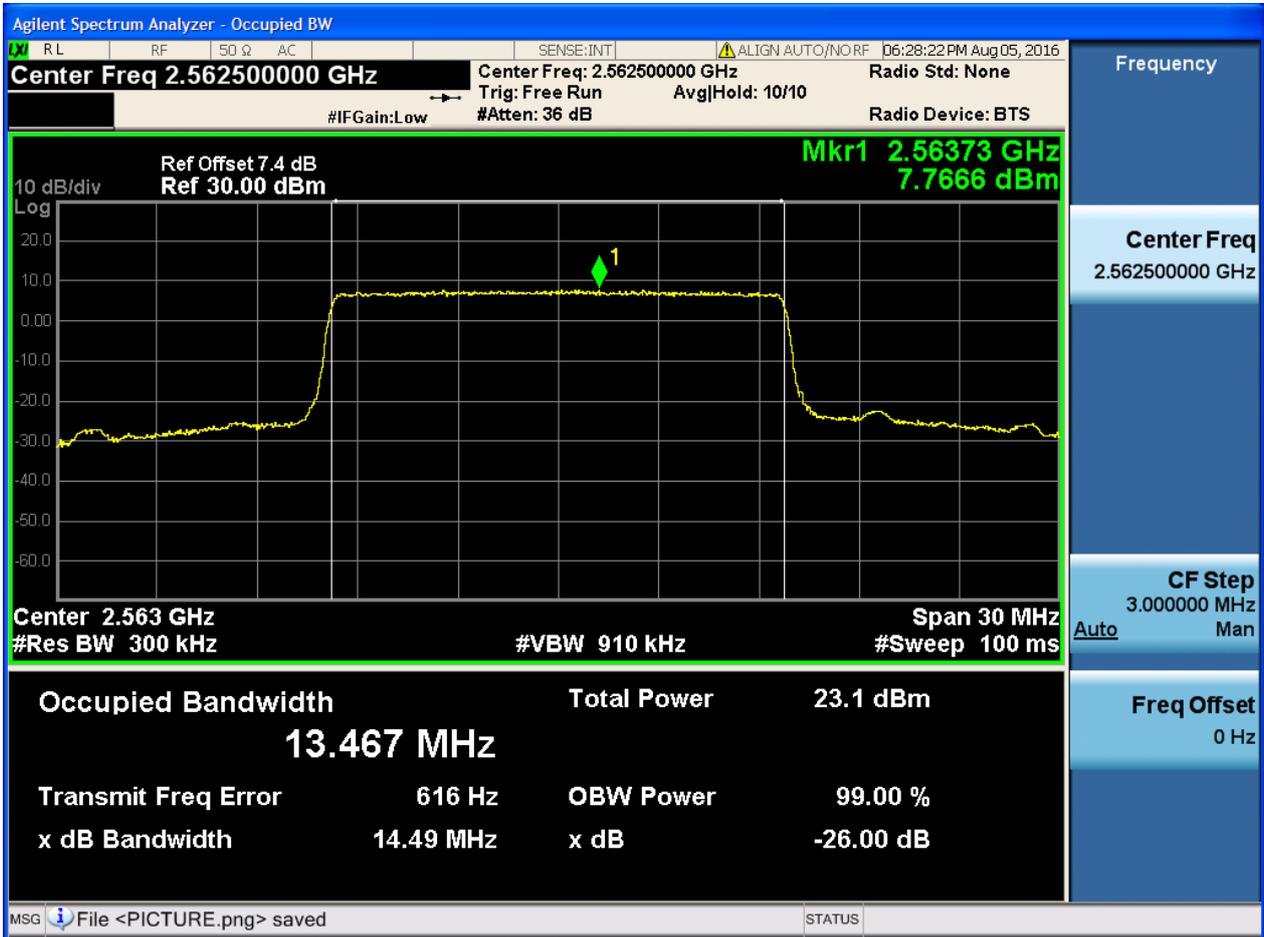
4.1.1.2.4 Test Bandwidth = 20

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
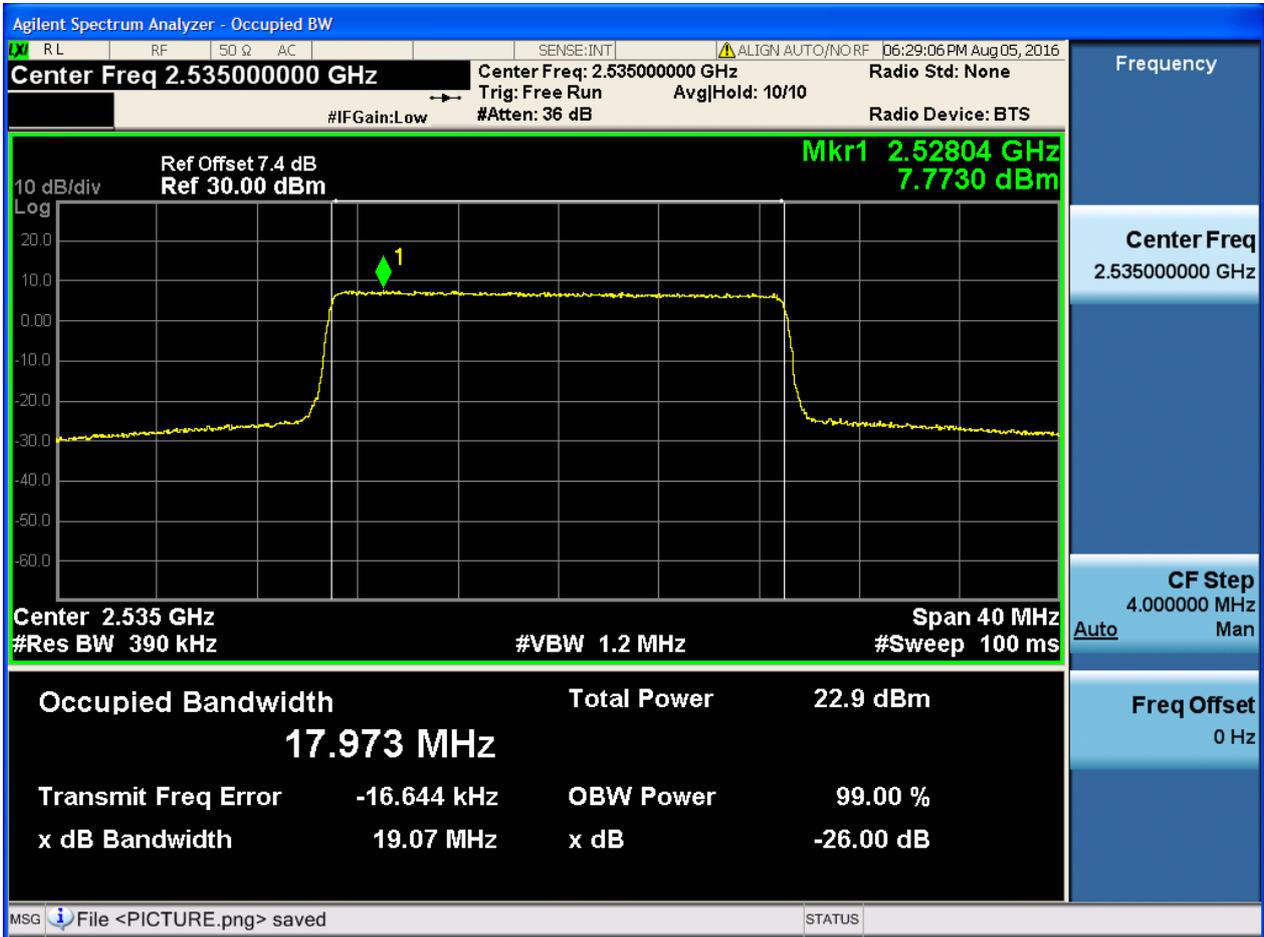
4.1.1.2.4.3 Test Channel = HCH

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

5.1.1.1.1.1.2 Test RB = RB1#24
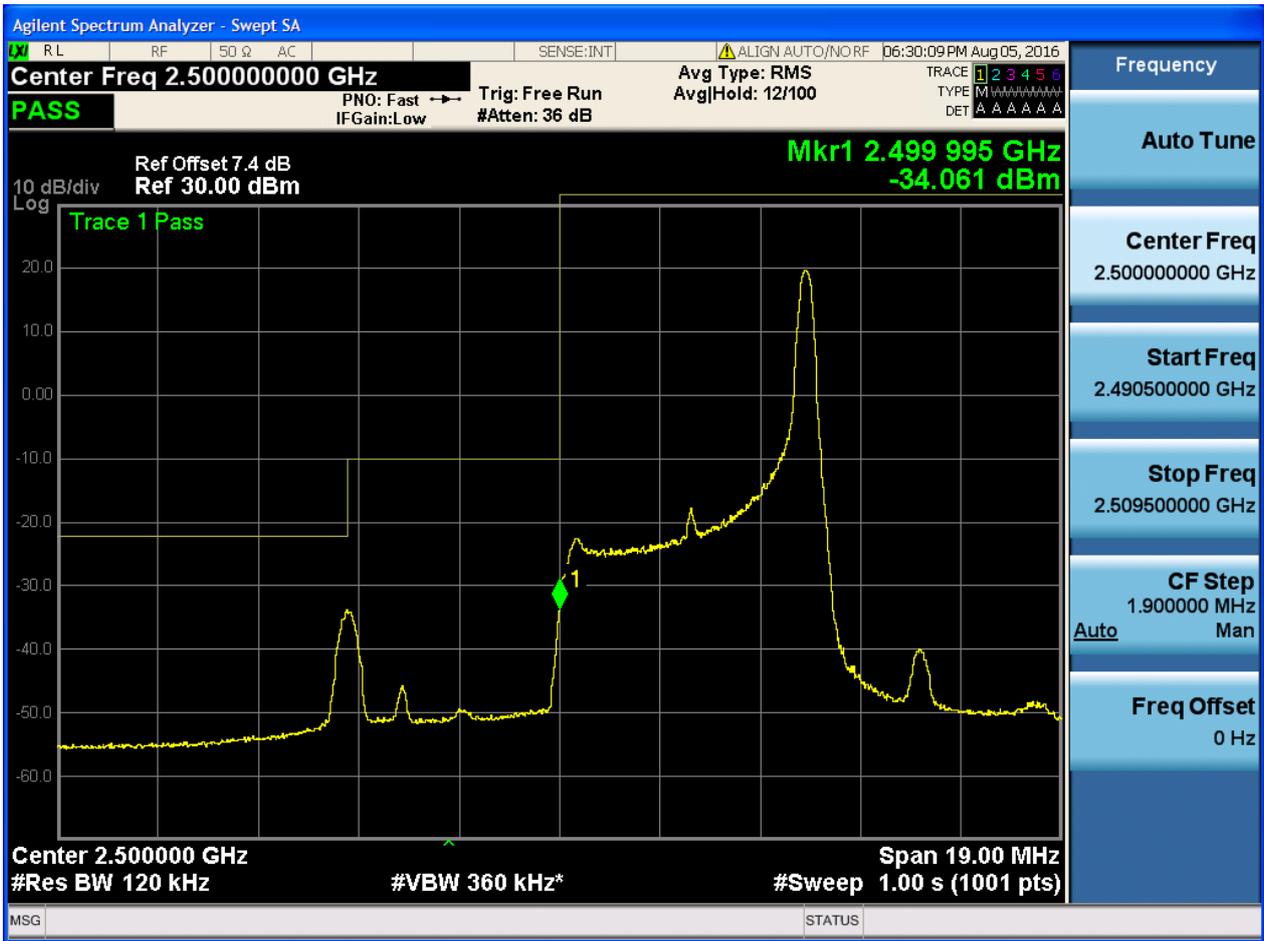
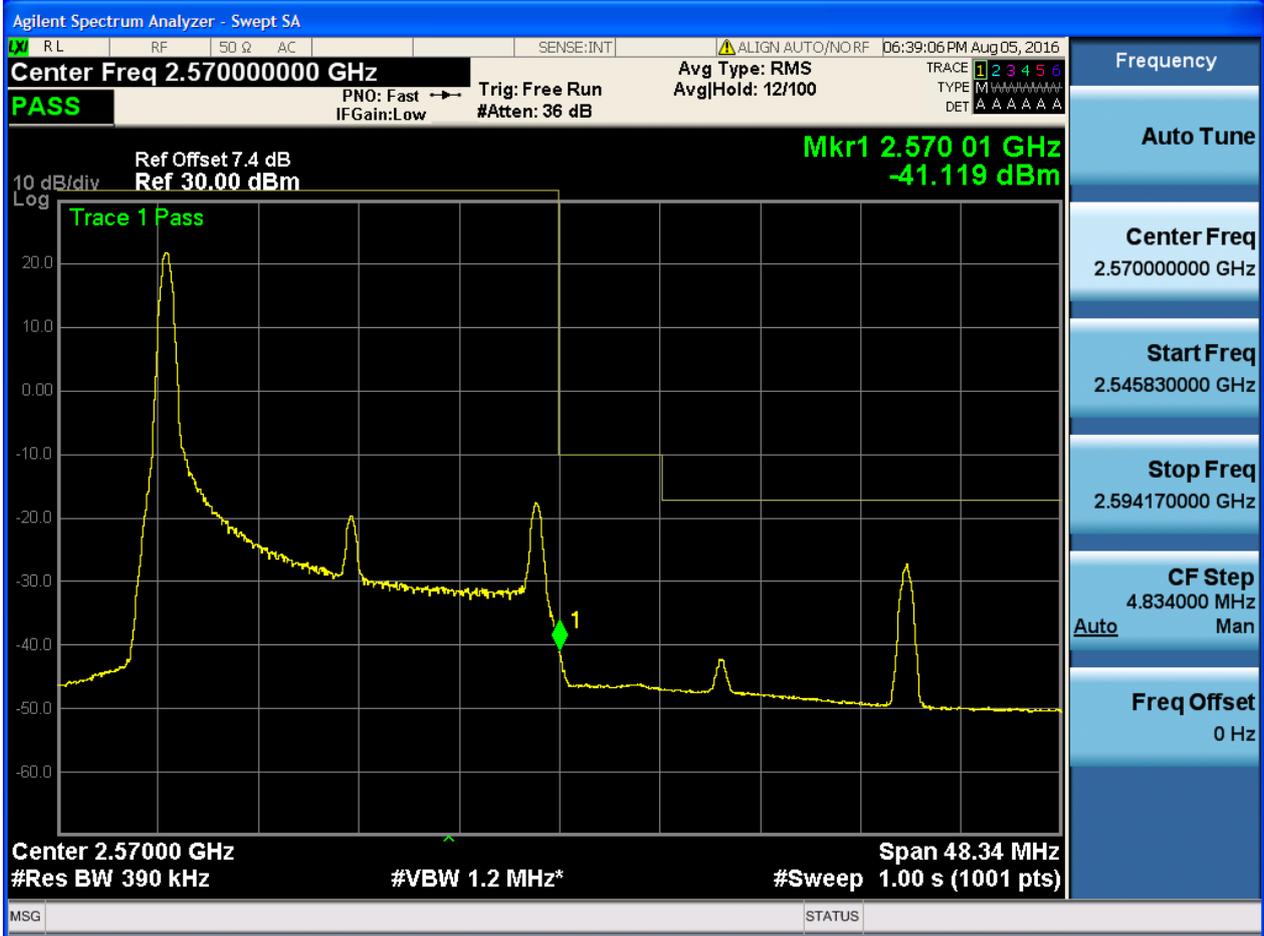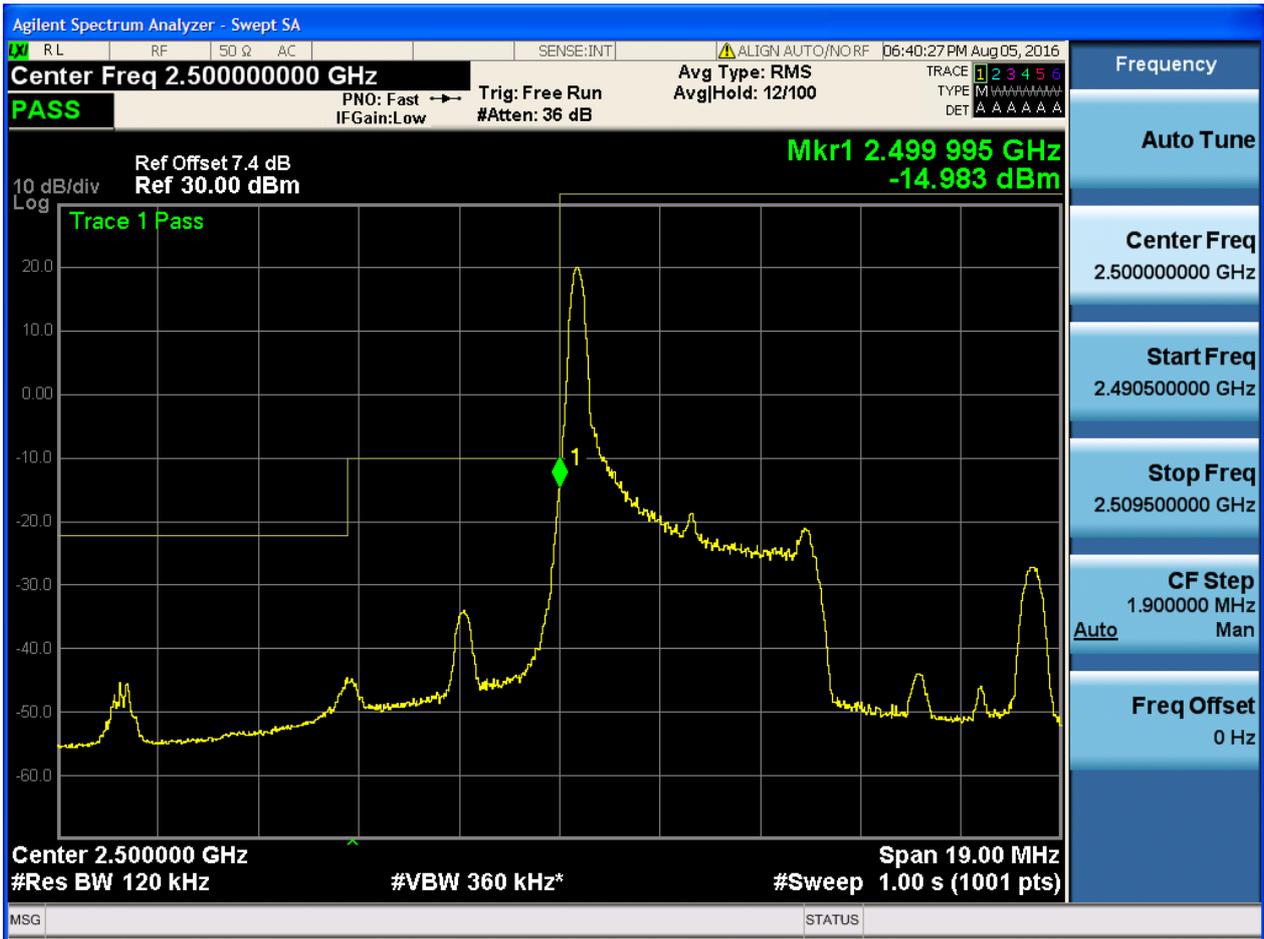## 5.1.1.1.1.1.3 Test RB = RB12#6

5.1.1.1.1.1.4 Test RB = RB25#0
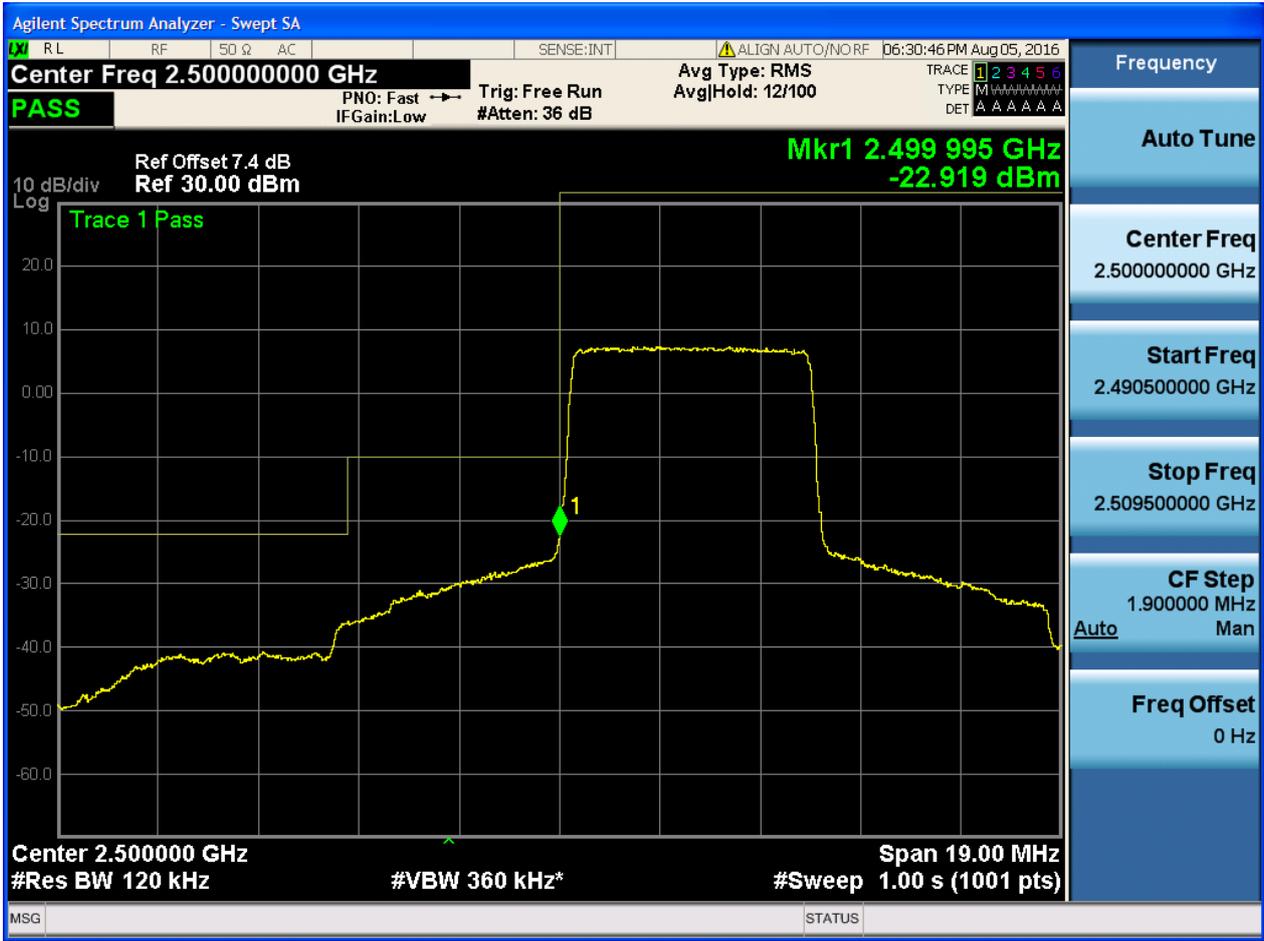
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0
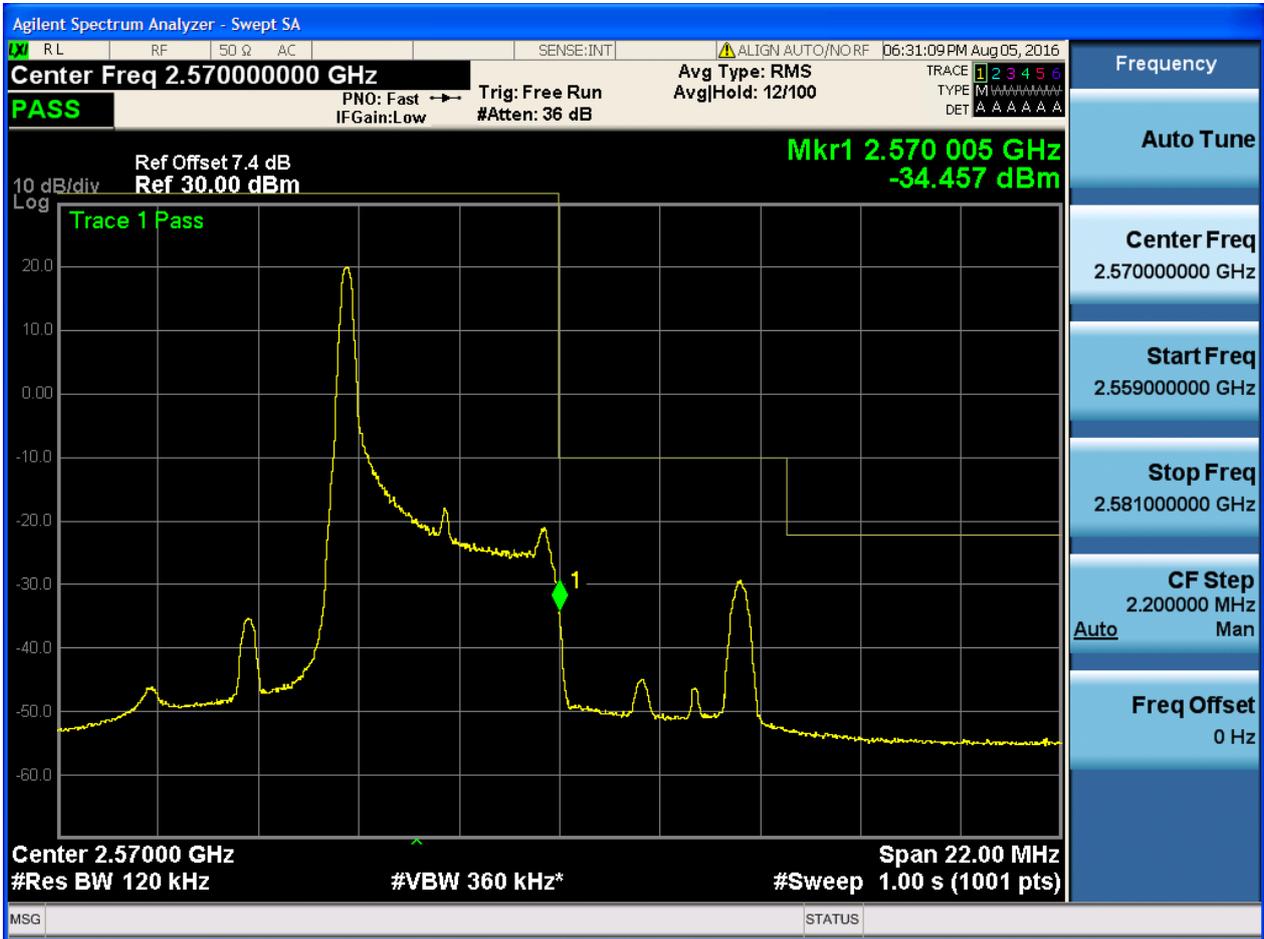
5.1.1.1.1.2.2 Test RB = RB1#24

5.1.1.1.1.2.3 Test RB = RB12#6
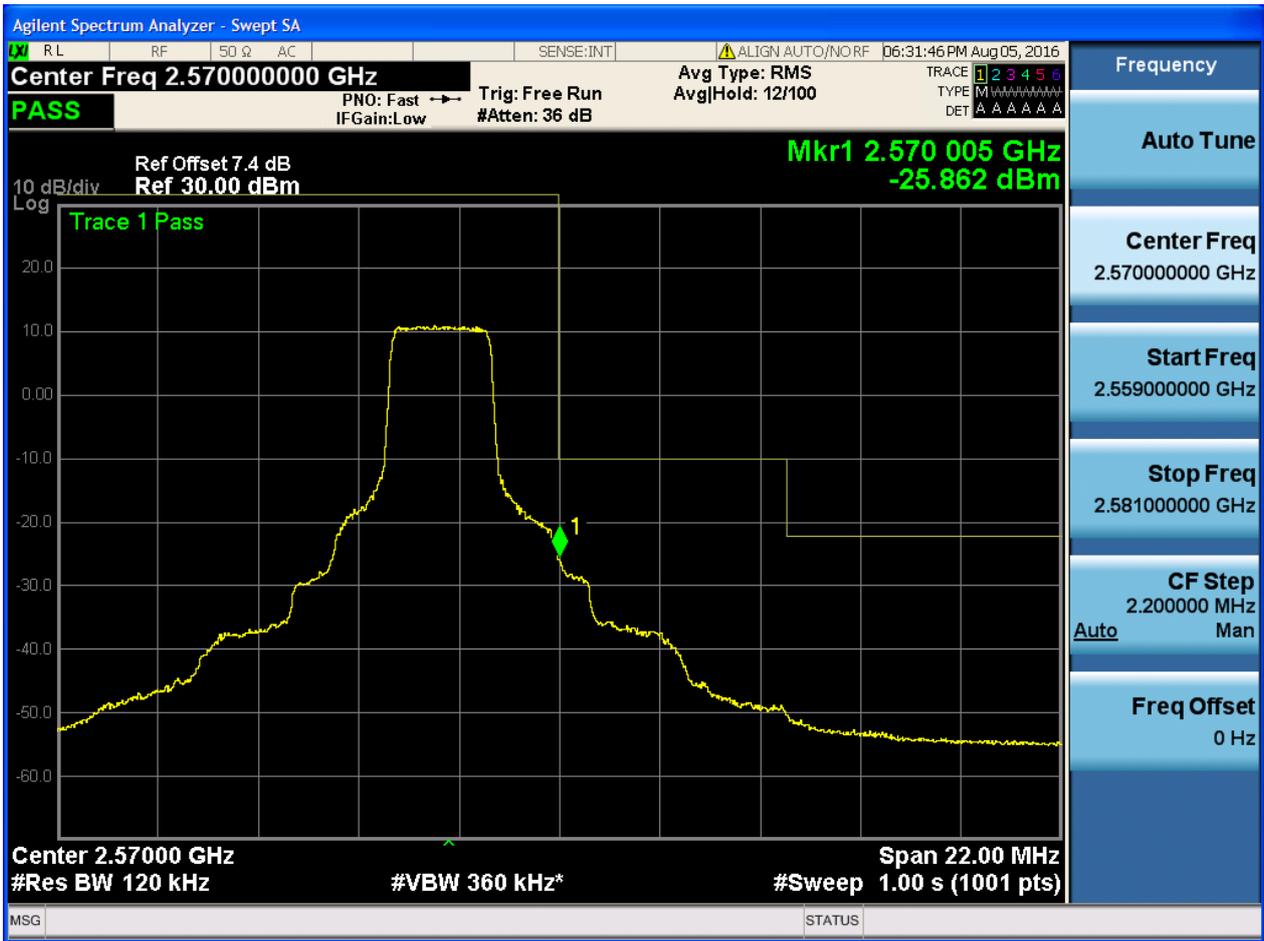
5.1.1.1.1.2.4 Test RB = RB25#0

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
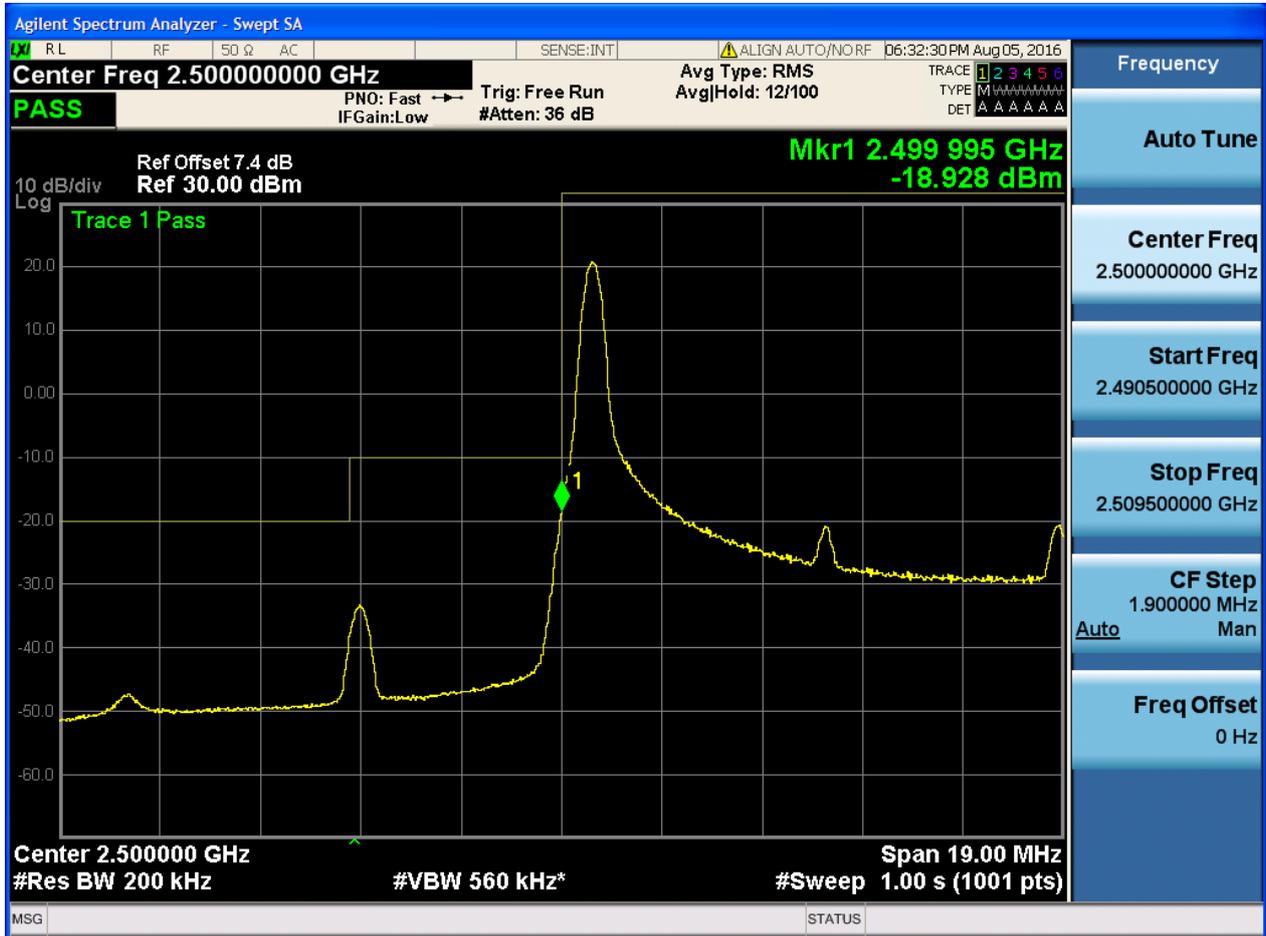
5.1.1.1.2.1.2 Test RB = RB1#49

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
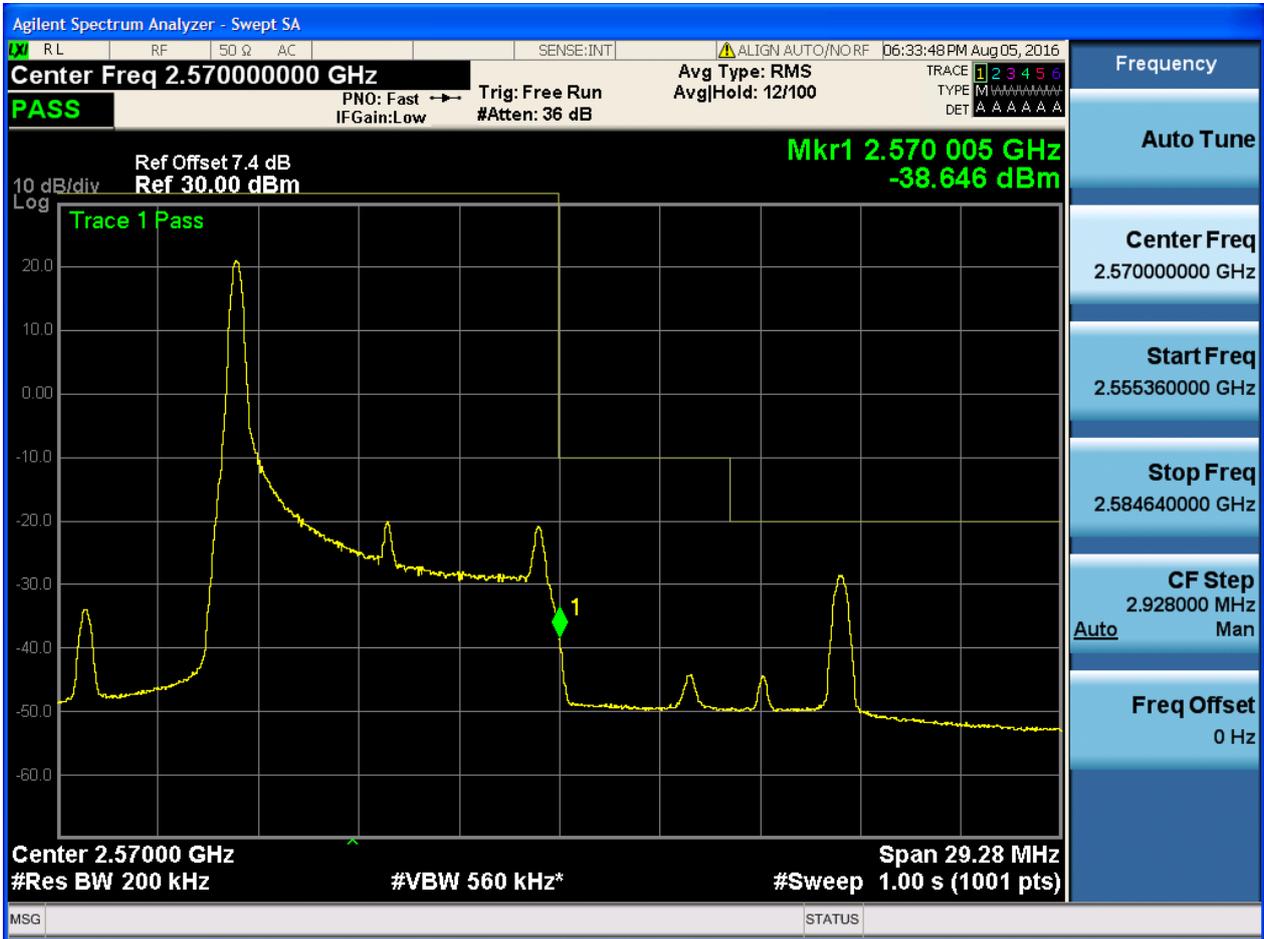
5.1.1.1.2.2.2 Test RB = RB1#49
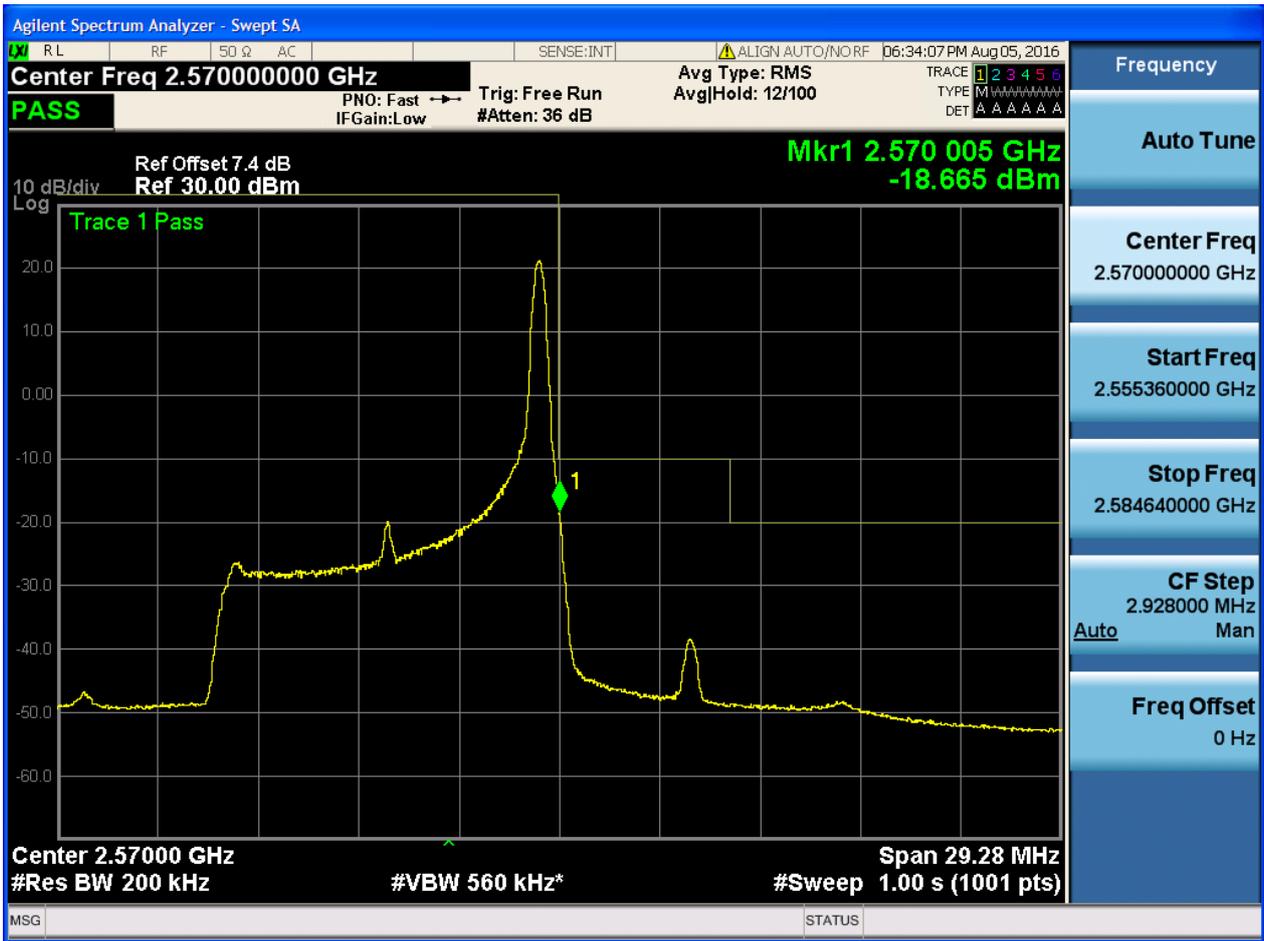
5.1.1.1.2.2.3 Test RB = RB25#13

5.1.1.1.2.2.4 Test RB = RB50#0

5.1.1.1.3 Test Bandwidth = 15

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0
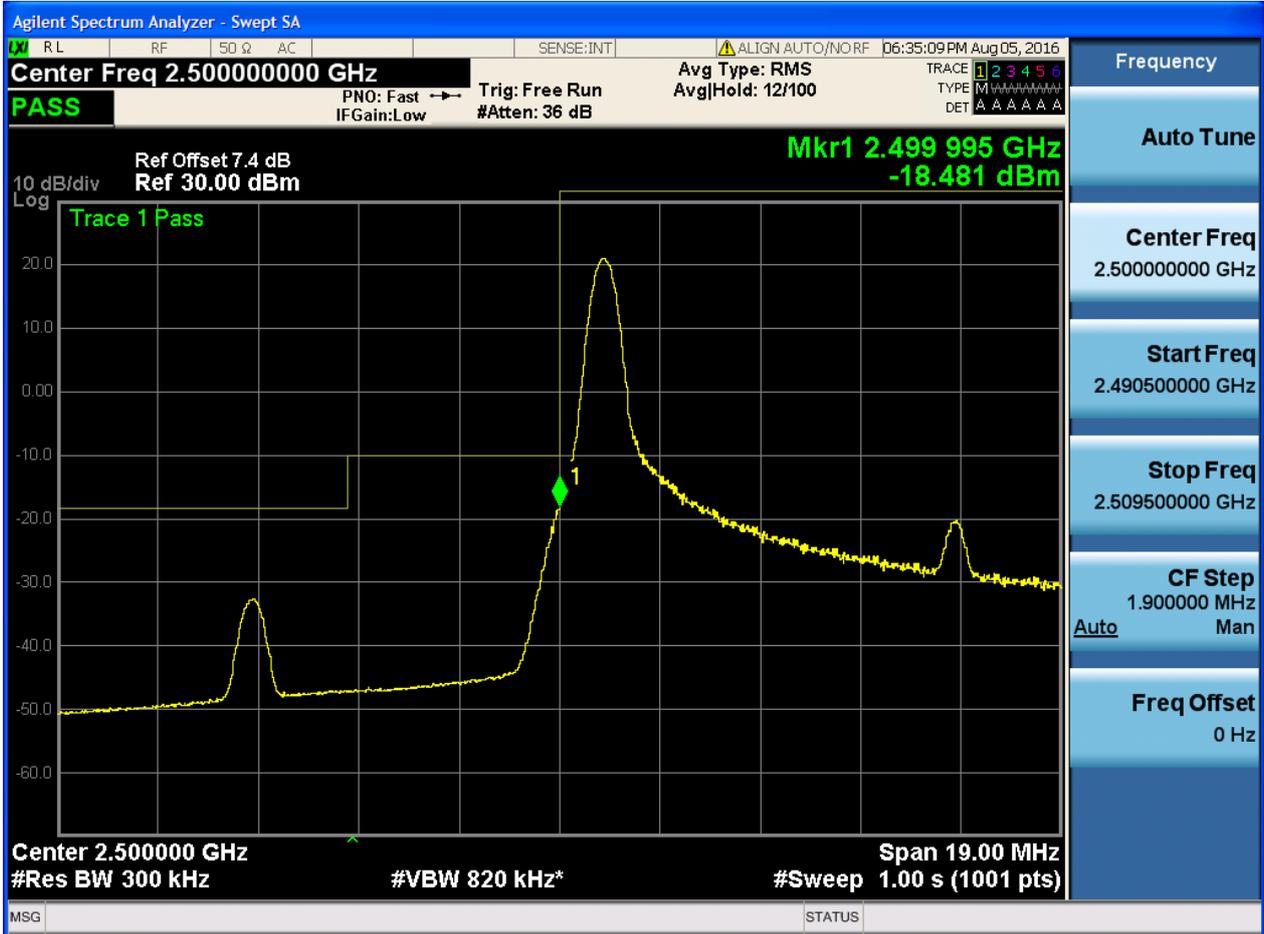
5.1.1.1.3.1.2 Test RB = RB1#74

5.1.1.1.3.1.3 Test RB = RB36#18

5.1.1.1.3.1.4 Test RB = RB75#0

5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0

5.1.1.1.3.2.2 Test RB = RB1#74

5.1.1.1.3.2.3 Test RB = RB36#18

5.1.1.1.3.2.4 Test RB = RB75#0

5.1.1.1.4 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

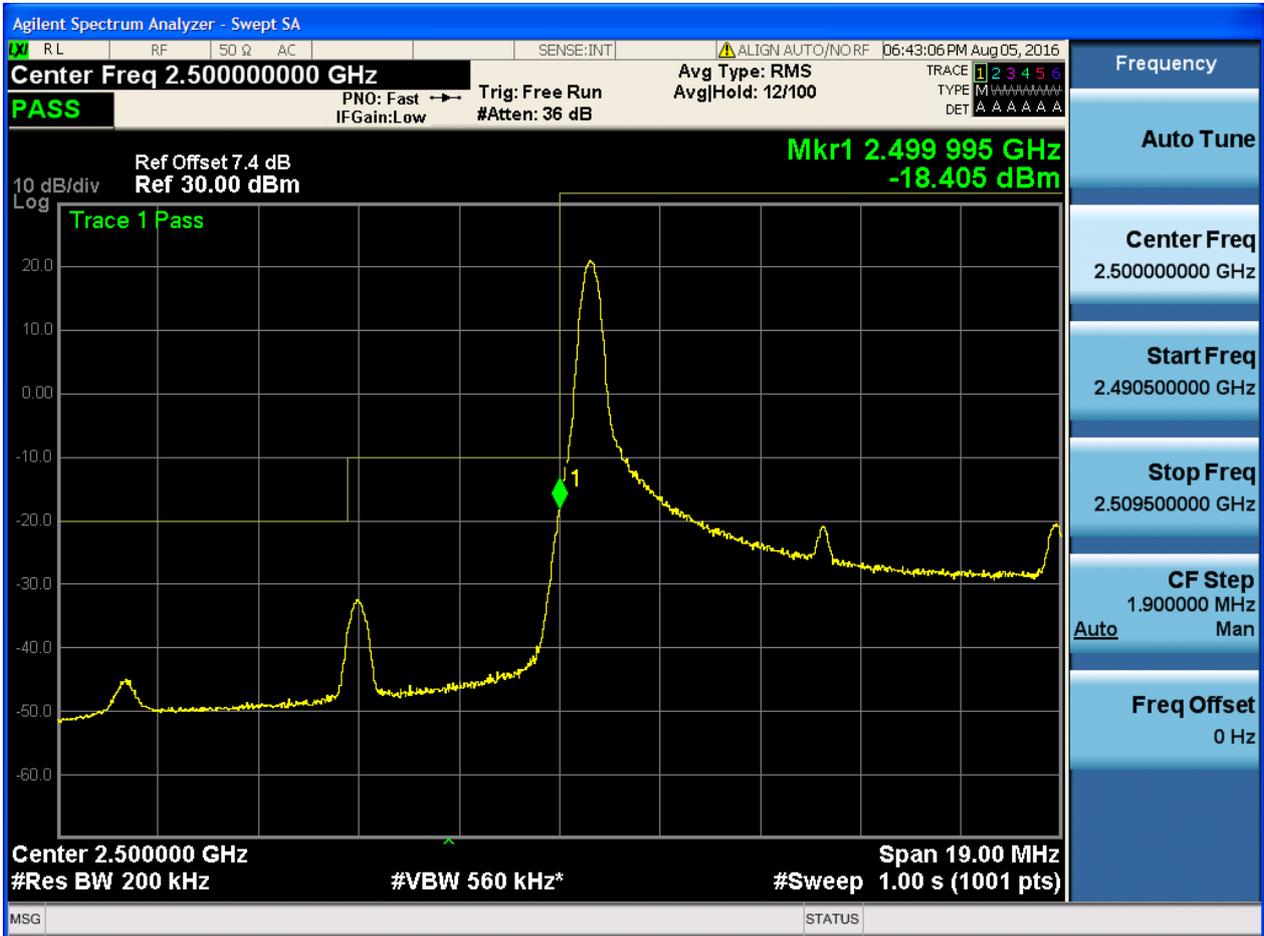## 5.1.1.2.1.1.3 Test RB = RB12#6
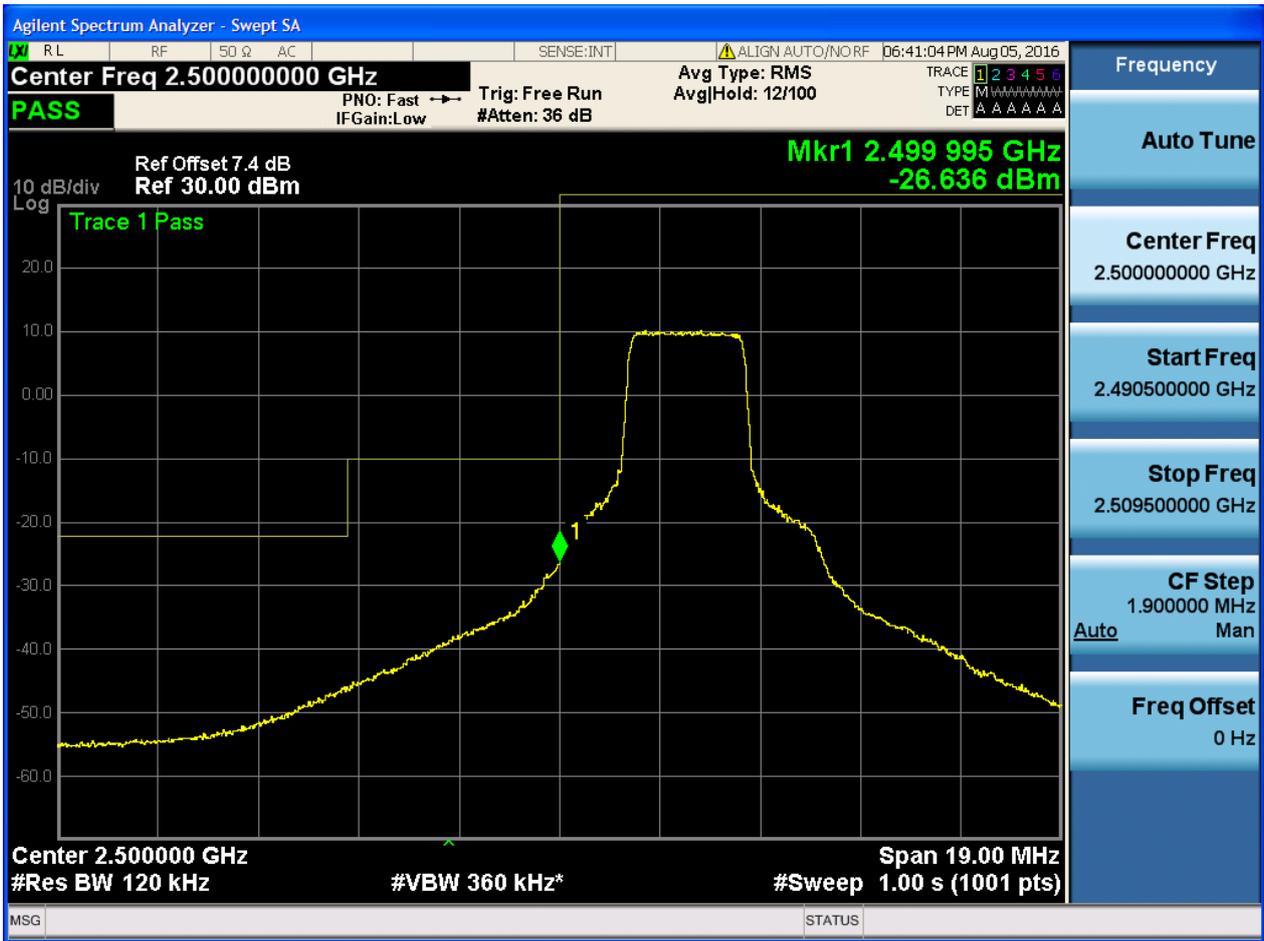
5.1.1.2.1.1.4 Test RB = RB25#0

5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0
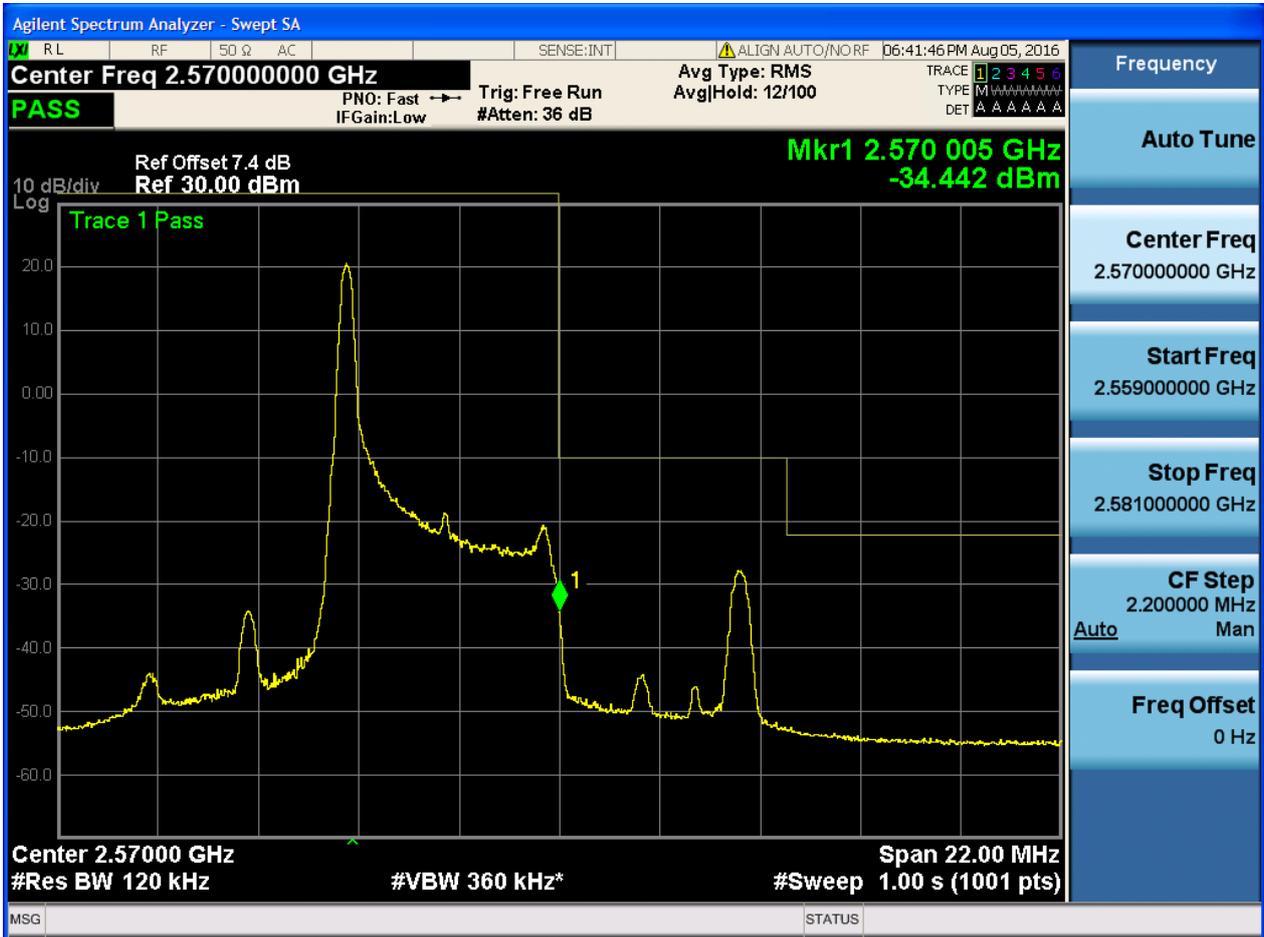
5.1.1.2.1.2.2 Test RB = RB1#24

5.1.1.2.1.2.3 Test RB = RB12#6
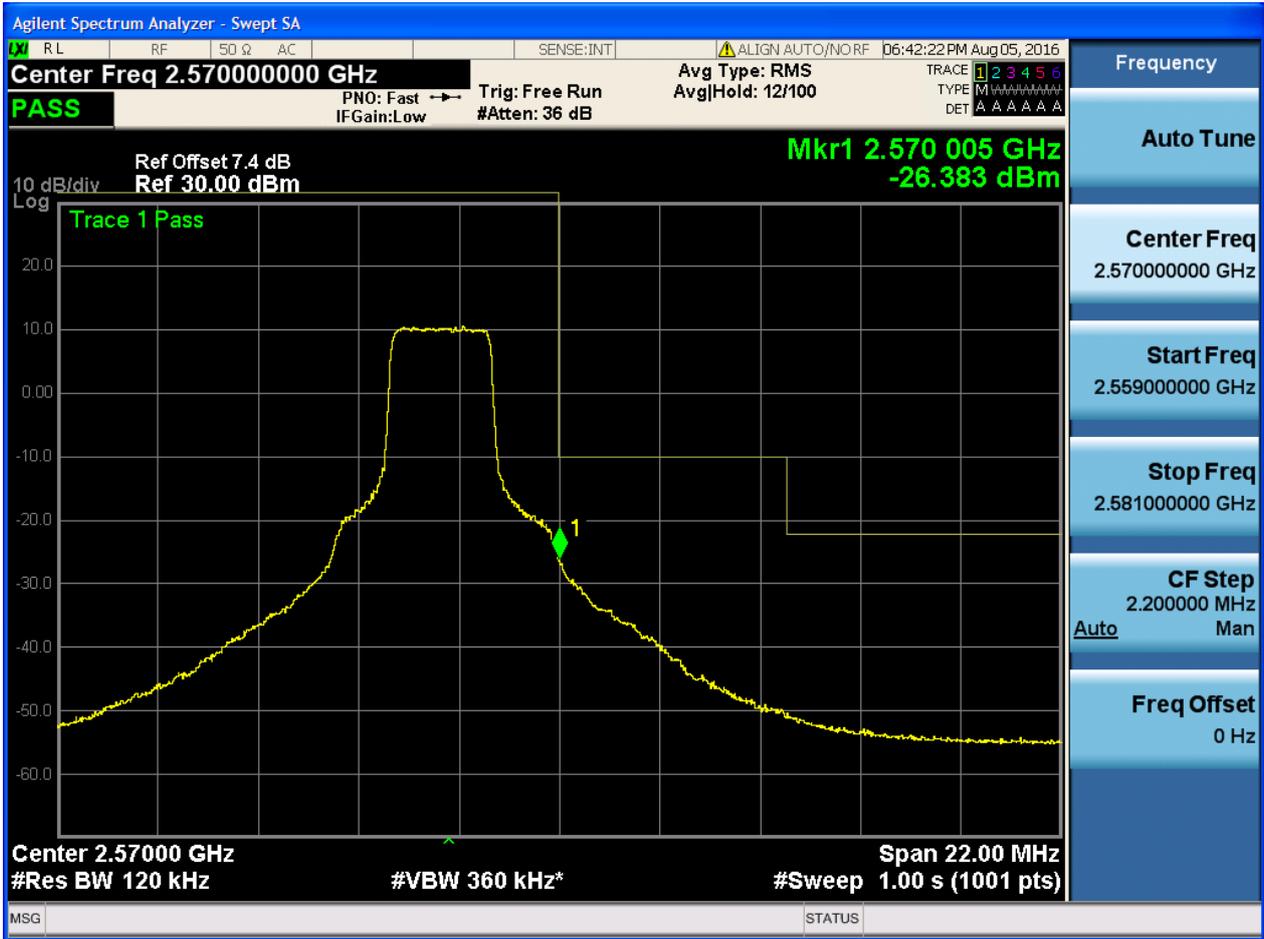
5.1.1.2.1.2.4 Test RB = RB25#0

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

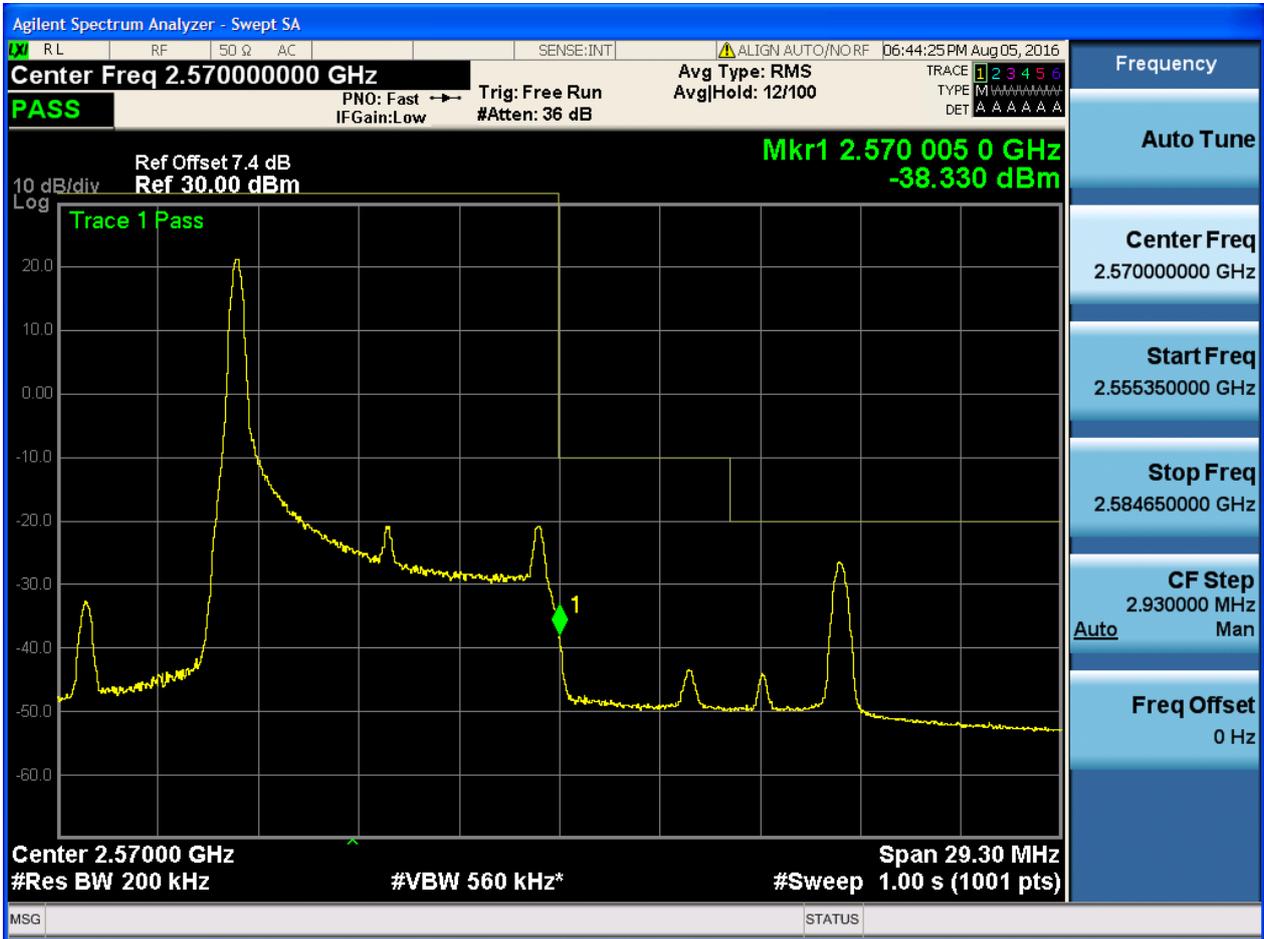## 5.1.1.2.2.1.2 Test RB = RB1#49

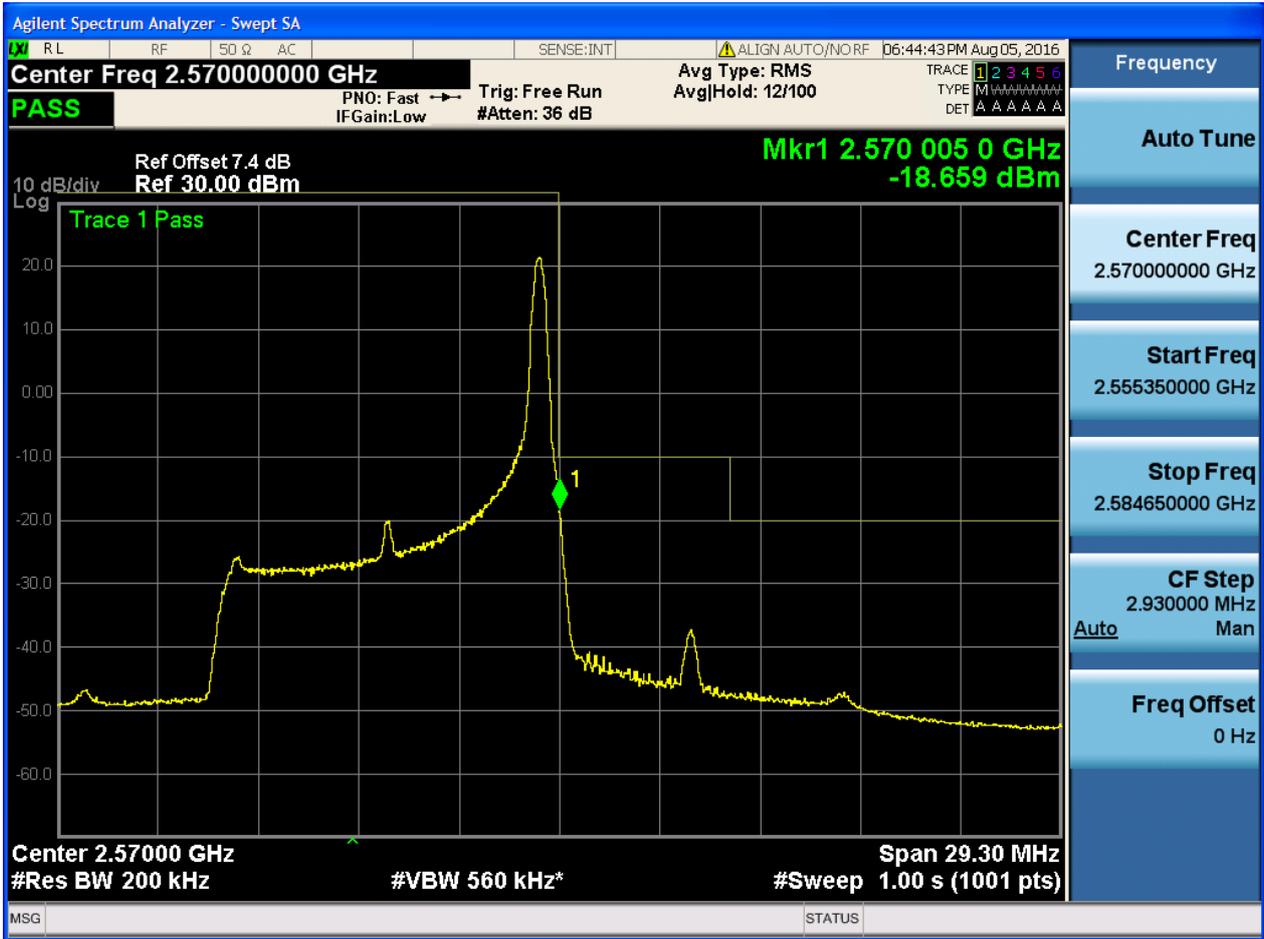## 5.1.1.2.2.1.3 Test RB = RB25#13

5.1.1.2.2.1.4 Test RB = RB50#0

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5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0

5.1.1.2.2.2.2 Test RB = RB1#49
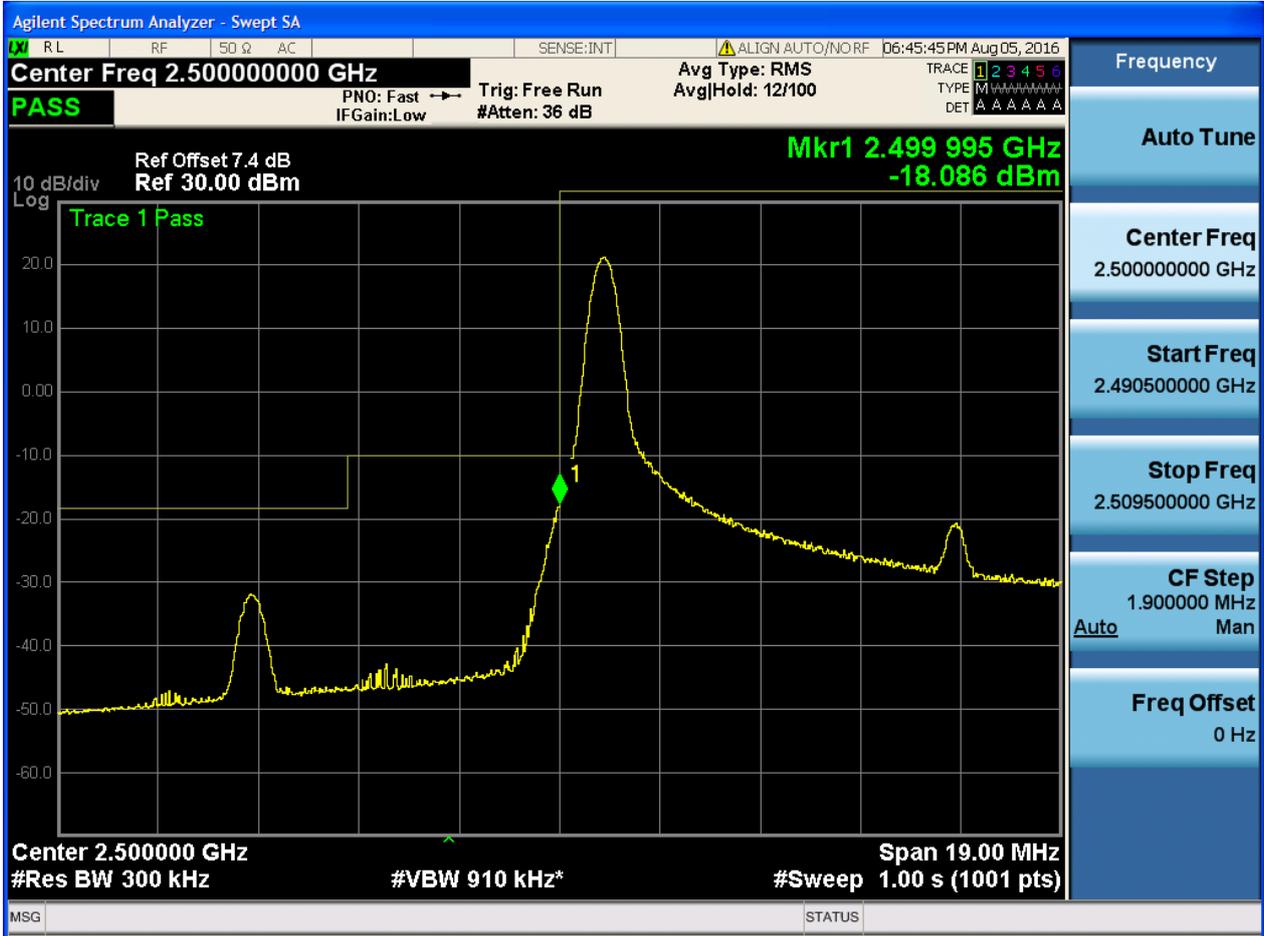
5.1.1.2.2.2.3 Test RB = RB25#13

5.1.1.2.2.2.4 Test RB = RB50#0

5.1.1.2.3 Test Bandwidth = 15

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

5.1.1.2.3.1.2 Test RB = RB1#74

5.1.1.2.3.1.3 Test RB = RB36#18

5.1.1.2.3.1.4 Test RB = RB75#0

5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0

5.1.1.2.3.2.2 Test RB = RB1#74

5.1.1.2.3.2.3 Test RB = RB36#18
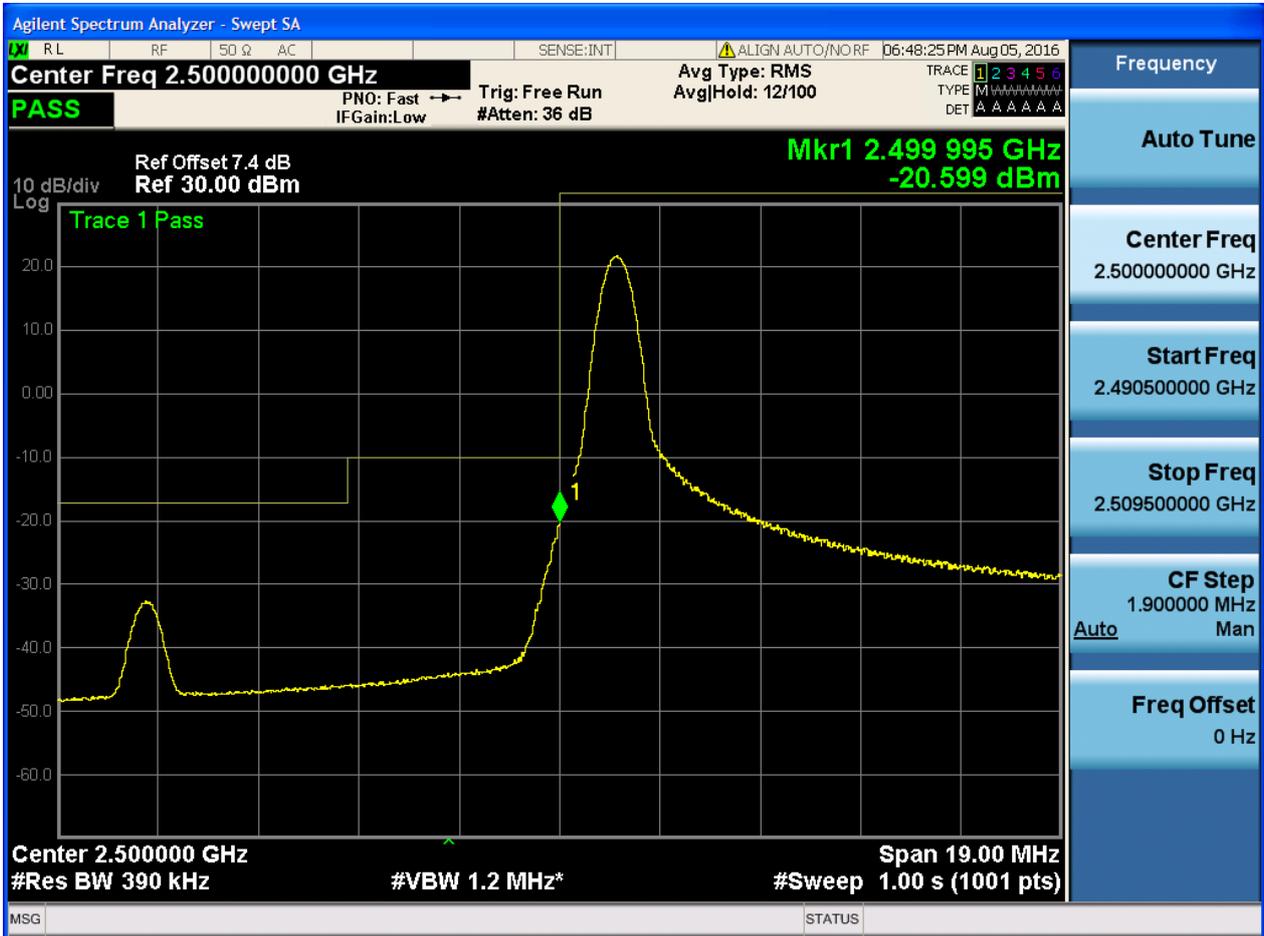
5.1.1.2.3.2.4 Test RB = RB75#0

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
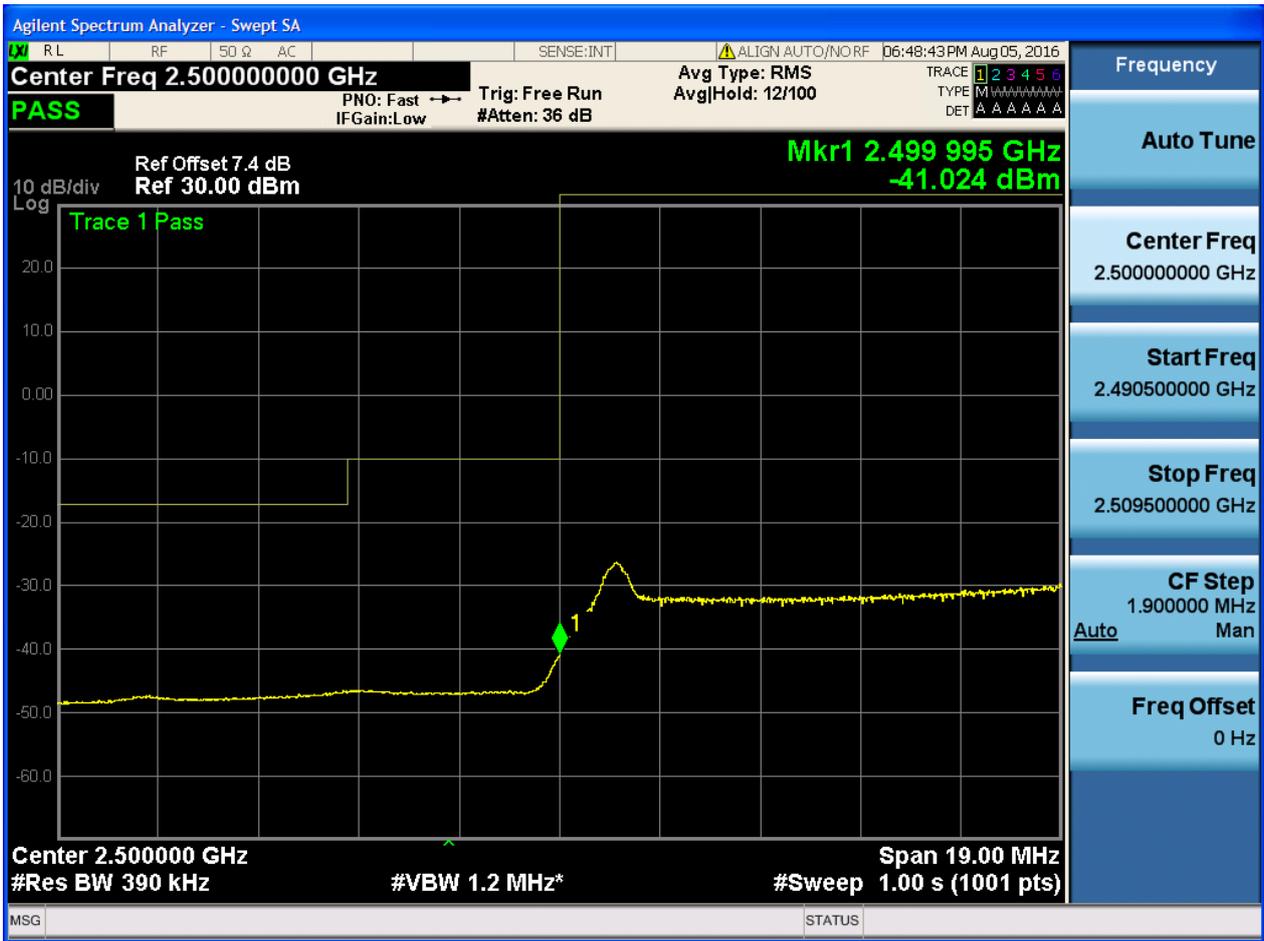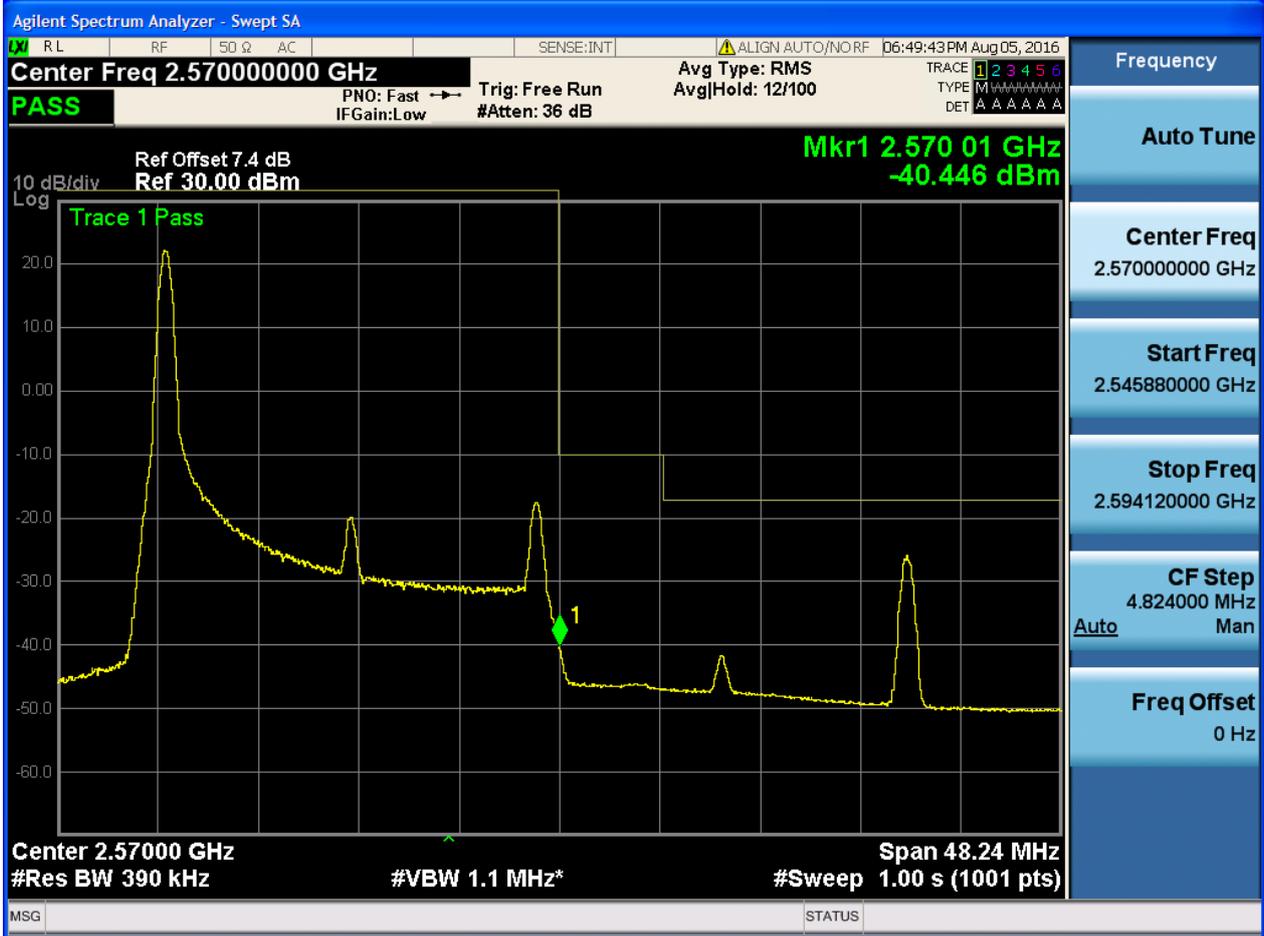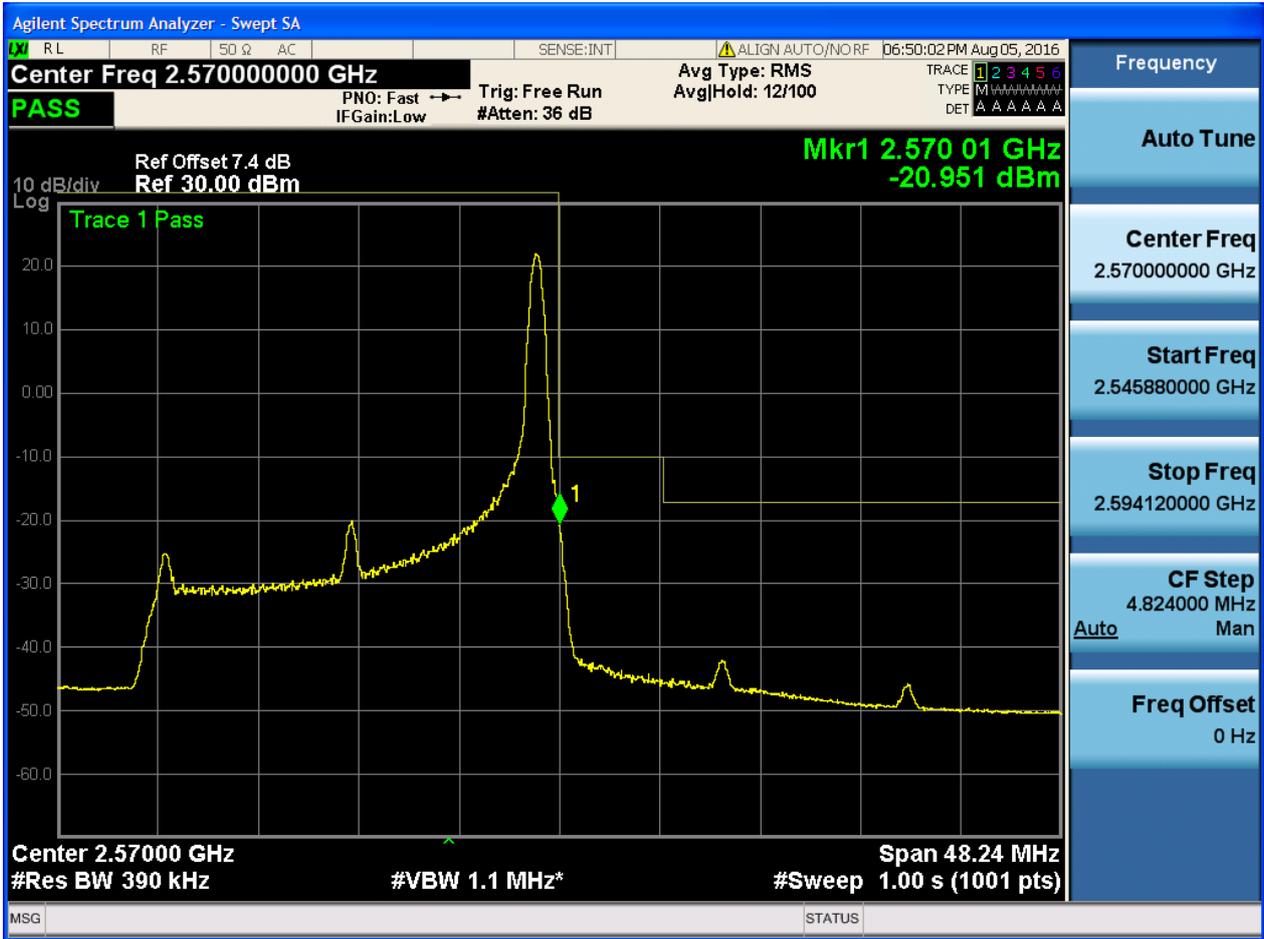
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0

5.1.1.2.4.2.2 Test RB = RB1#99

5.1.1.2.4.2.3 Test RB = RB50#25

5.1.1.2.4.2.4 Test RB = RB100#0

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

LXI R L   RF   50 Ω ⚠DC   SENSE:INT   ⚠ ALIGN AUTO/NO RF   06:52:27 PM Aug 05, 2016

Center Freq 79.500 kHz

Avg Type: Log-Pwr
Avg|Hold: 90/100

PNO: Wide ⤵
IFGain:Low

Trig: Free Run
#Atten: 16 dB

TRACE 1 2 3 4 5 6
TYPE M WWWWWWW
DET P P P P P

Ref Offset 7.4 dB
Ref 13.40 dBm

10 dB/div
Log

Mkr1 9.000 kHz
-57.685 dBm

3.40

-6.60

-16.6

-26.6

-36.6

-46.6

-56.6

-66.6

-76.6

1

-55.00 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

#VBW 3.0 kHz

Stop 150.00 kHz
Sweep   135 ms (1001 pts)

MSG ⚠ Data out of range;The value 15 was clipped to the maximum value of 13.4.   STATUS ⚠ DC Coupled

Frequency

Auto Tune

Center Freq
79.500 kHz

Start Freq
9.000 kHz

Stop Freq
150.000 kHz

CF Step
14.100 kHz
Auto   Man

Freq Offset
0 Hz