



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
BAND41	LTE/TM1	5	LCH	RB1#0	21.87	25.25	33	PASS
				RB1#13	21.9	25.34	33	PASS
				RB1#24	21.9	25.30	33	PASS
				RB12#0	20.94	24.54	33	PASS
				RB12#6	21.01	24.55	33	PASS
				RB12#13	21.02	24.53	33	PASS
				RB25#0	20.97	24.61	33	PASS
			MCH	RB1#0	21.87	25.46	33	PASS
				RB1#13	21.98	25.36	33	PASS
				RB1#24	21.91	25.40	33	PASS
				RB12#0	20.88	24.44	33	PASS
				RB12#6	20.96	24.57	33	PASS
				RB12#13	20.89	24.20	33	PASS
				RB25#0	20.95	24.48	33	PASS
			HCH	RB1#0	22.02	25.56	33	PASS
				RB1#13	21.95	25.65	33	PASS
				RB1#24	21.92	25.28	33	PASS
				RB12#0	20.93	24.55	33	PASS
				RB12#6	20.96	24.33	33	PASS
				RB12#13	20.93	24.44	33	PASS
				RB25#0	20.94	24.31	33	PASS
		10	LCH	RB1#0	21.81	25.40	33	PASS
				RB1#25	21.99	25.50	33	PASS
				RB1#49	21.91	25.21	33	PASS
				RB25#0	20.83	24.21	33	PASS
				RB25#13	20.96	24.57	33	PASS
				RB25#25	20.89	24.23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			MCH	RB50#0	20.83	24.28	33	PASS
				RB1#0	21.9	25.26	33	PASS
				RB1#25	22.05	25.35	33	PASS
				RB1#49	21.87	25.54	33	PASS
				RB25#0	20.88	24.33	33	PASS
				RB25#13	20.94	24.59	33	PASS
				RB25#25	20.92	24.23	33	PASS
				RB50#0	20.91	24.37	33	PASS
				RB1#0	21.9	25.27	33	PASS
				RB1#25	22.08	25.67	33	PASS
				RB1#49	21.88	25.44	33	PASS
				RB25#0	20.94	24.45	33	PASS
				RB25#13	21.04	24.41	33	PASS
				RB25#25	20.96	24.28	33	PASS
				RB50#0	20.92	24.45	33	PASS
		15	LCH	RB1#0	21.72	25.11	33	PASS
				RB1#38	21.99	25.40	33	PASS
				RB1#74	21.78	25.25	33	PASS
				RB36#0	20.79	24.33	33	PASS
				RB36#18	20.93	24.41	33	PASS
				RB36#39	20.86	24.25	33	PASS
				RB75#0	20.85	24.50	33	PASS
			MCH	RB1#0	21.81	25.41	33	PASS
				RB1#38	21.96	25.40	33	PASS
				RB1#74	21.71	25.28	33	PASS
				RB36#0	20.86	24.30	33	PASS
				RB36#18	20.86	24.41	33	PASS
				RB36#39	20.84	24.52	33	PASS
				RB75#0	20.87	24.25	33	PASS
			HCH	RB1#0	21.88	25.47	33	PASS
				RB1#38	21.99	25.46	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#74	21.76	25.08	33	PASS
				RB36#0	20.97	24.30	33	PASS
				RB36#18	20.92	24.33	33	PASS
				RB36#39	20.9	24.43	33	PASS
				RB75#0	20.91	24.37	33	PASS
		20	LCH	RB1#0	21.88	25.41	33	PASS
				RB1#50	21.89	25.23	33	PASS
				RB1#99	22.01	25.63	33	PASS
				RB50#0	20.9	24.54	33	PASS
				RB50#25	20.91	24.52	33	PASS
				RB50#50	20.92	24.32	33	PASS
				RB100#0	20.93	24.46	33	PASS
			MCH	RB1#0	22.09	25.66	33	PASS
				RB1#50	22.07	25.50	33	PASS
				RB1#99	22.01	25.60	33	PASS
				RB50#0	20.9	24.41	33	PASS
				RB50#25	20.87	24.38	33	PASS
				RB50#50	20.91	24.55	33	PASS
				RB100#0	20.92	24.23	33	PASS
			HCH	RB1#0	22.03	25.38	33	PASS
				RB1#50	21.98	25.38	33	PASS
				RB1#99	21.97	25.38	33	PASS
				RB50#0	20.94	24.37	33	PASS
				RB50#25	20.97	24.56	33	PASS
				RB50#50	20.89	24.37	33	PASS
				RB100#0	20.96	24.54	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.12	24.51	33	PASS
				RB1#13	21.23	24.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#24	21.11	24.71	33	PASS
				RB12#0	19.88	23.56	33	PASS
				RB12#6	19.95	23.56	33	PASS
				RB12#13	19.96	23.48	33	PASS
				RB25#0	19.87	23.52	33	PASS
			MCH	RB1#0	21.25	24.74	33	PASS
				RB1#13	21.28	24.63	33	PASS
				RB1#24	21.22	24.67	33	PASS
				RB12#0	19.83	23.38	33	PASS
				RB12#6	19.84	23.44	33	PASS
				RB12#13	19.74	23.17	33	PASS
				RB25#0	19.89	23.45	33	PASS
			HCH	RB1#0	20.86	24.25	33	PASS
				RB1#13	20.87	24.54	33	PASS
				RB1#24	20.76	24.39	33	PASS
				RB12#0	19.8	23.11	33	PASS
				RB12#6	19.83	23.47	33	PASS
				RB12#13	19.79	23.45	33	PASS
				RB25#0	19.88	23.52	33	PASS
		10	LCH	RB1#0	21.12	24.61	33	PASS
				RB1#25	21.29	24.97	33	PASS
				RB1#49	21.19	24.49	33	PASS
				RB25#0	19.74	23.07	33	PASS
				RB25#13	19.77	23.33	33	PASS
				RB25#25	19.83	23.38	33	PASS
				RB50#0	19.84	23.53	33	PASS
			MCH	RB1#0	20.82	24.40	33	PASS
				RB1#25	21.01	24.61	33	PASS
				RB1#49	20.95	24.58	33	PASS
				RB25#0	19.73	23.23	33	PASS
				RB25#13	19.79	23.28	33	PASS
				RB25#25	19.77	23.16	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#0	19.85	23.19	33	PASS
			HCH	RB1#0	21.39	25.01	33	PASS
				RB1#25	21.56	25.17	33	PASS
				RB1#49	21.4	24.77	33	PASS
				RB25#0	19.88	23.32	33	PASS
				RB25#13	19.96	23.53	33	PASS
				RB25#25	19.89	23.19	33	PASS
				RB50#0	19.83	23.33	33	PASS
		15	LCH	RB1#0	20.82	24.12	33	PASS
				RB1#38	21.08	24.76	33	PASS
				RB1#74	20.86	24.51	33	PASS
				RB36#0	19.82	23.37	33	PASS
				RB36#18	19.87	23.42	33	PASS
				RB36#39	19.77	23.35	33	PASS
				RB75#0	19.77	23.20	33	PASS
			MCH	RB1#0	20.95	24.34	33	PASS
				RB1#38	21.11	24.67	33	PASS
				RB1#74	20.85	24.45	33	PASS
				RB36#0	19.83	23.43	33	PASS
				RB36#18	19.9	23.50	33	PASS
				RB36#39	19.82	23.19	33	PASS
				RB75#0	19.79	23.24	33	PASS
			HCH	RB1#0	21.24	24.59	33	PASS
				RB1#38	21.27	24.61	33	PASS
				RB1#74	21.11	24.58	33	PASS
				RB36#0	19.83	23.15	33	PASS
				RB36#18	19.85	23.50	33	PASS
				RB36#39	19.83	23.32	33	PASS
				RB75#0	19.88	23.24	33	PASS
		20	LCH	RB1#0	21.35	25.04	33	PASS
				RB1#50	21.36	24.83	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#99	21.36	24.86	33	PASS
				RB50#0	19.71	23.10	33	PASS
				RB50#25	19.76	23.20	33	PASS
				RB50#50	19.84	23.42	33	PASS
				RB100#0	19.85	23.30	33	PASS
			MCH	RB1#0	21.09	24.74	33	PASS
				RB1#50	21.07	24.66	33	PASS
				RB1#99	20.99	24.31	33	PASS
				RB50#0	19.82	23.52	33	PASS
				RB50#25	19.79	23.31	33	PASS
				RB50#50	19.76	23.34	33	PASS
				RB100#0	19.84	23.33	33	PASS
			HCH	RB1#0	21.27	24.69	33	PASS
				RB1#50	21.23	24.53	33	PASS
				RB1#99	21.14	24.52	33	PASS
				RB50#0	19.84	23.51	33	PASS
				RB50#25	19.87	23.35	33	PASS
				RB50#50	19.79	23.42	33	PASS
				RB100#0	19.88	23.33	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:

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

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

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

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
BAND41	LTE/TM1	5	LCH	RB1#0	4.08	13	PASS
				RB1#13	4.08	13	PASS
				RB1#24	4.29	13	PASS
				RB12#0	5.65	13	PASS
				RB12#6	5.63	13	PASS
				RB12#13	5.69	13	PASS
				RB25#0	6.37	13	PASS
			MCH	RB1#0	5.41	13	PASS
				RB1#13	5.37	13	PASS
				RB1#24	5.39	13	PASS
				RB12#0	5.93	13	PASS
				RB12#6	5.95	13	PASS
				RB12#13	5.98	13	PASS
				RB25#0	6.61	13	PASS
			HCH	RB1#0	4.65	13	PASS
				RB1#13	4.67	13	PASS
				RB1#24	4.79	13	PASS
				RB12#0	5.84	13	PASS
				RB12#6	5.88	13	PASS
				RB12#13	5.94	13	PASS
				RB25#0	6.53	13	PASS
		10	LCH	RB1#0	4.78	13	PASS
				RB1#25	4.79	13	PASS
				RB1#49	4.88	13	PASS
				RB25#0	6.24	13	PASS
				RB25#13	6.07	13	PASS
				RB25#25	6.23	13	PASS
				RB50#0	6.25	13	PASS
			MCH	RB1#0	4.78	13	PASS
				RB1#25	4.74	13	PASS
				RB1#49	4.74	13	PASS
				RB25#0	6.56	13	PASS
				RB25#13	6.53	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	6.63	13	PASS
				RB50#0	6.39	13	PASS
			HCH	RB1#0	4.61	13	PASS
				RB1#25	4.65	13	PASS
				RB1#49	4.84	13	PASS
				RB25#0	6.1	13	PASS
				RB25#13	6.11	13	PASS
				RB25#25	6.31	13	PASS
				RB50#0	6.14	13	PASS
		15	LCH	RB1#0	4.72	13	PASS
				RB1#38	4.74	13	PASS
				RB1#74	4.91	13	PASS
				RB36#0	6.23	13	PASS
				RB36#18	6.25	13	PASS
				RB36#39	6.31	13	PASS
				RB75#0	6.69	13	PASS
			MCH	RB1#0	4.76	13	PASS
				RB1#38	4.65	13	PASS
				RB1#74	4.66	13	PASS
				RB36#0	6.37	13	PASS
				RB36#18	6.44	13	PASS
				RB36#39	6.38	13	PASS
				RB75#0	6.47	13	PASS
			HCH	RB1#0	4.44	13	PASS
				RB1#38	4.48	13	PASS
				RB1#74	4.73	13	PASS
				RB36#0	6.09	13	PASS
				RB36#18	6.01	13	PASS
				RB36#39	6.2	13	PASS
				RB75#0	6.44	13	PASS
		20	LCH	RB1#0	4.44	13	PASS
				RB1#50	4.5	13	PASS
				RB1#99	4.56	13	PASS
				RB50#0	6.15	13	PASS
				RB50#25	6.33	13	PASS
				RB50#50	6.29	13	PASS
				RB100#0	6.32	13	PASS
			MCH	RB1#0	5.17	13	PASS
				RB1#50	5.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	5.02	13	PASS
				RB50#0	6.87	13	PASS
				RB50#25	6.8	13	PASS
				RB50#50	6.8	13	PASS
				RB100#0	6.51	13	PASS
			HCH	RB1#0	4.44	13	PASS
				RB1#50	4.61	13	PASS
				RB1#99	4.86	13	PASS
				RB50#0	6.21	13	PASS
				RB50#25	6.32	13	PASS
				RB50#50	6.49	13	PASS
				RB100#0	6.47	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.66	13	PASS
				RB1#13	5.67	13	PASS
				RB1#24	5.75	13	PASS
				RB12#0	6.94	13	PASS
				RB12#6	6.95	13	PASS
				RB12#13	7.06	13	PASS
				RB25#0	7.14	13	PASS
			MCH	RB1#0	6.11	13	PASS
				RB1#13	6.03	13	PASS
				RB1#24	6.05	13	PASS
				RB12#0	7.05	13	PASS
				RB12#6	7.07	13	PASS
				RB12#13	7	13	PASS
				RB25#0	7.48	13	PASS
			HCH	RB1#0	5.91	13	PASS
				RB1#13	5.92	13	PASS
				RB1#24	6.05	13	PASS
				RB12#0	6.88	13	PASS
				RB12#6	6.83	13	PASS
				RB12#13	7.04	13	PASS
				RB25#0	6.91	13	PASS
		10	LCH	RB1#0	5.25	13	PASS
				RB1#25	5.26	13	PASS
				RB1#49	5.34	13	PASS
				RB25#0	6.77	13	PASS
				RB25#13	6.53	13	PASS
				RB25#25	6.54	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	7.19	13	PASS
				RB1#0	5.84	13	PASS
			MCH	RB1#25	5.71	13	PASS
				RB1#49	5.8	13	PASS
				RB25#0	7.28	13	PASS
				RB25#13	7.32	13	PASS
				RB25#25	7.22	13	PASS
				RB50#0	7.33	13	PASS
			HCH	RB1#0	5.11	13	PASS
				RB1#25	4.98	13	PASS
				RB1#49	5.15	13	PASS
				RB25#0	6.97	13	PASS
				RB25#13	6.97	13	PASS
				RB25#25	7.11	13	PASS
				RB50#0	7.1	13	PASS
		15	LCH	RB1#0	5.43	13	PASS
				RB1#38	5.41	13	PASS
				RB1#74	5.65	13	PASS
				RB36#0	6.95	13	PASS
				RB36#18	6.73	13	PASS
				RB36#39	6.9	13	PASS
				RB75#0	7.61	13	PASS
			MCH	RB1#0	5.69	13	PASS
				RB1#38	5.55	13	PASS
				RB1#74	5.62	13	PASS
				RB36#0	7.49	13	PASS
				RB36#18	7.51	13	PASS
				RB36#39	7.55	13	PASS
				RB75#0	7.88	13	PASS
			HCH	RB1#0	5.16	13	PASS
				RB1#38	5.22	13	PASS
				RB1#74	5.54	13	PASS
				RB36#0	7.12	13	PASS
				RB36#18	7.13	13	PASS
				RB36#39	7.2	13	PASS
				RB75#0	7.3	13	PASS
		20	LCH	RB1#0	5.32	13	PASS
				RB1#50	5.36	13	PASS
				RB1#99	5.44	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.97	13	PASS
				RB50#25	6.79	13	PASS
				RB50#50	6.9	13	PASS
				RB100#0	7.53	13	PASS
			MCH	RB1#0	5.1	13	PASS
				RB1#50	5.06	13	PASS
				RB1#99	5.03	13	PASS
				RB50#0	7.13	13	PASS
				RB50#25	7.11	13	PASS
				RB50#50	7.08	13	PASS
				RB100#0	7.41	13	PASS
			HCH	RB1#0	5.04	13	PASS
				RB1#50	5.19	13	PASS
				RB1#99	5.54	13	PASS
				RB50#0	6.97	13	PASS
				RB50#25	6.96	13	PASS
				RB50#50	7.14	13	PASS
				RB100#0	7.37	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

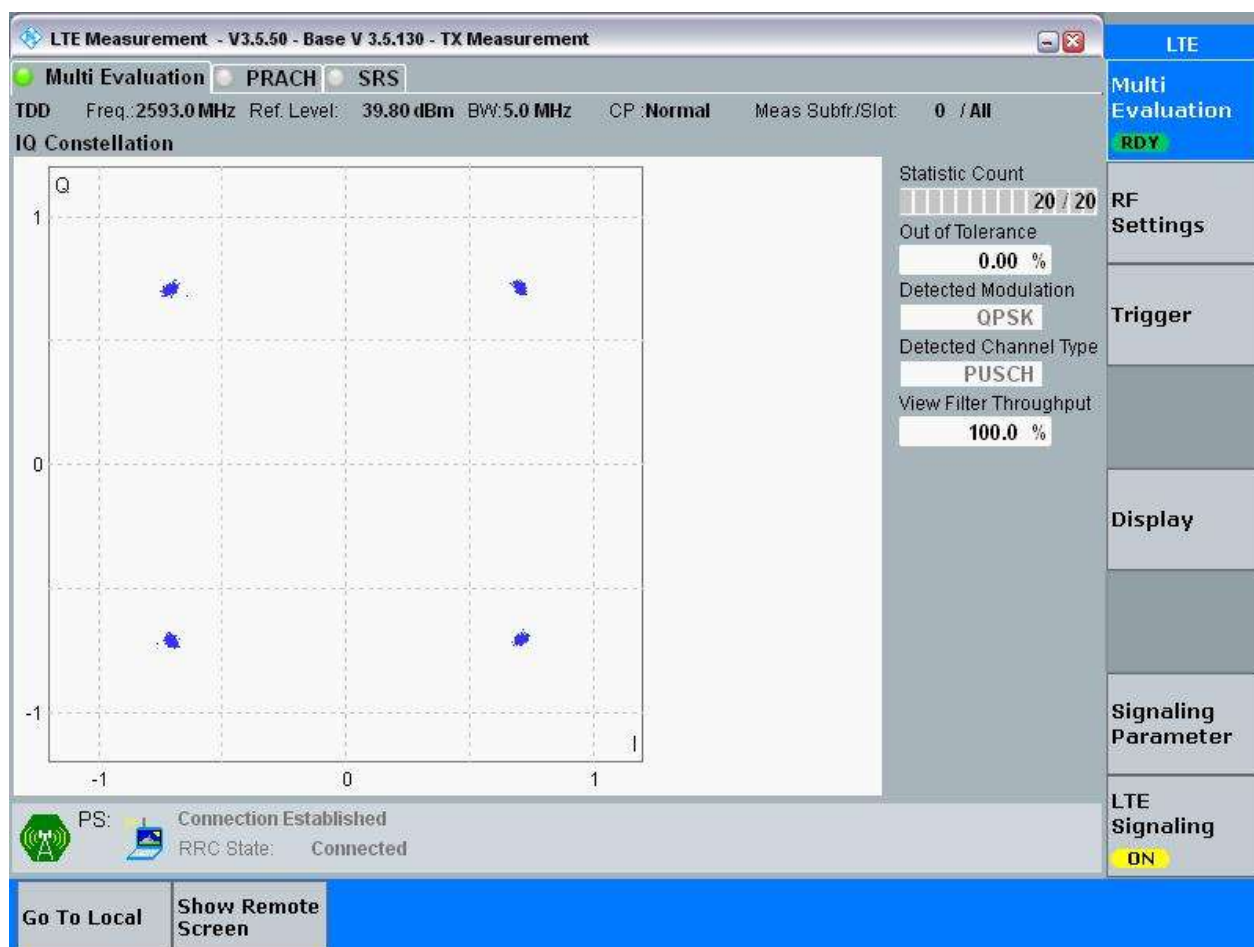
3.1.1 Test Band = BAND41

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

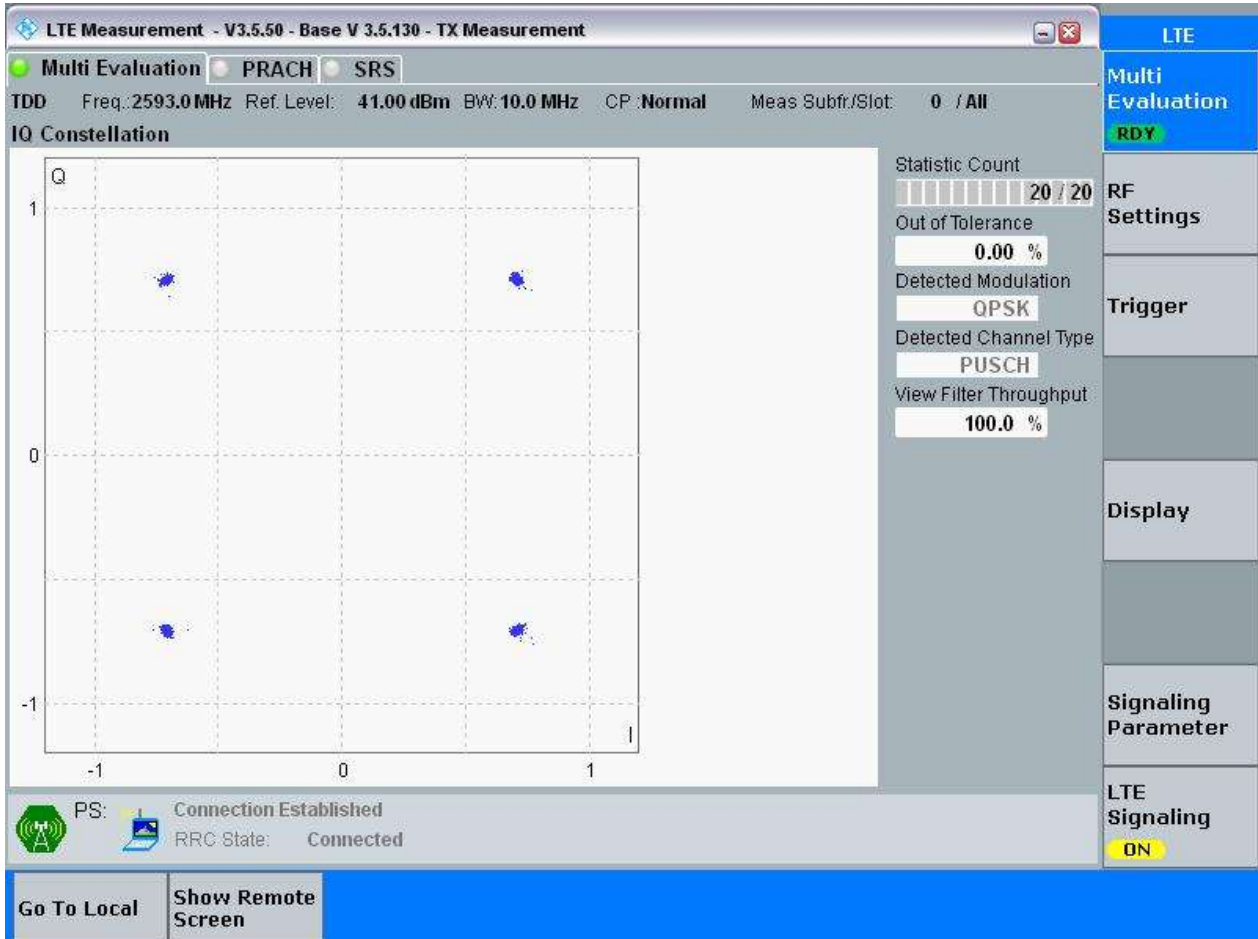
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

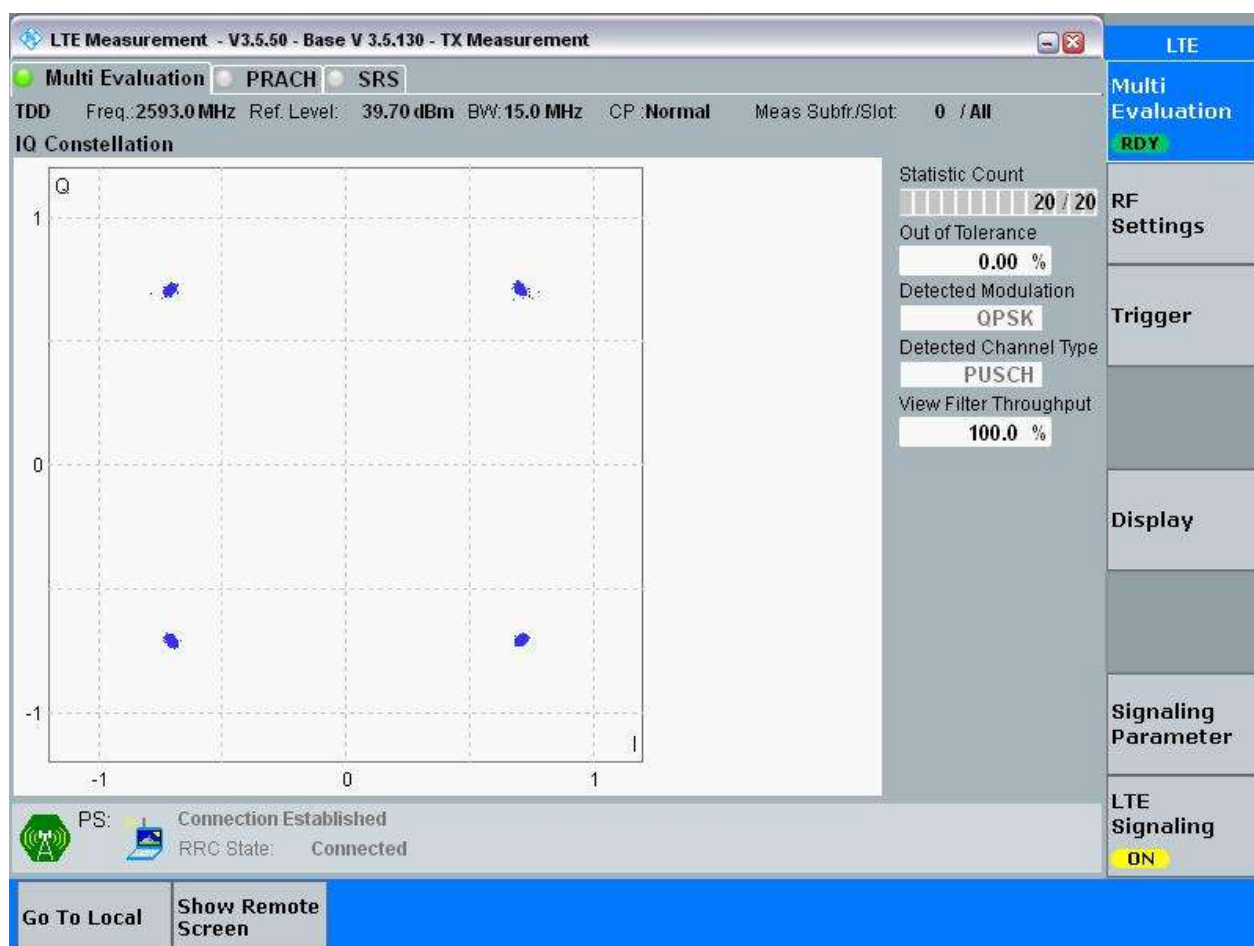
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

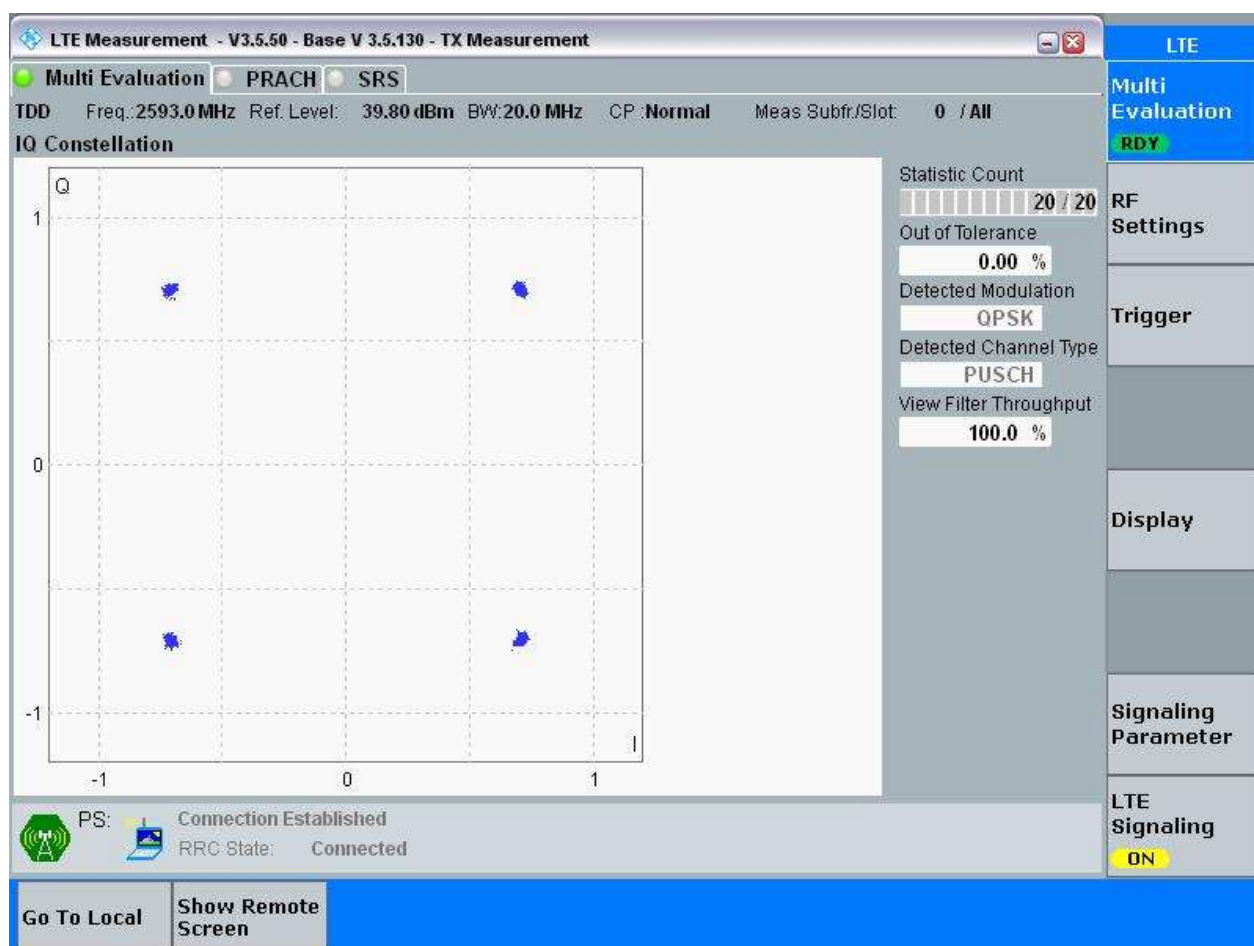
3.1.1.1.3.1.1 Test RB = RB75#0



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

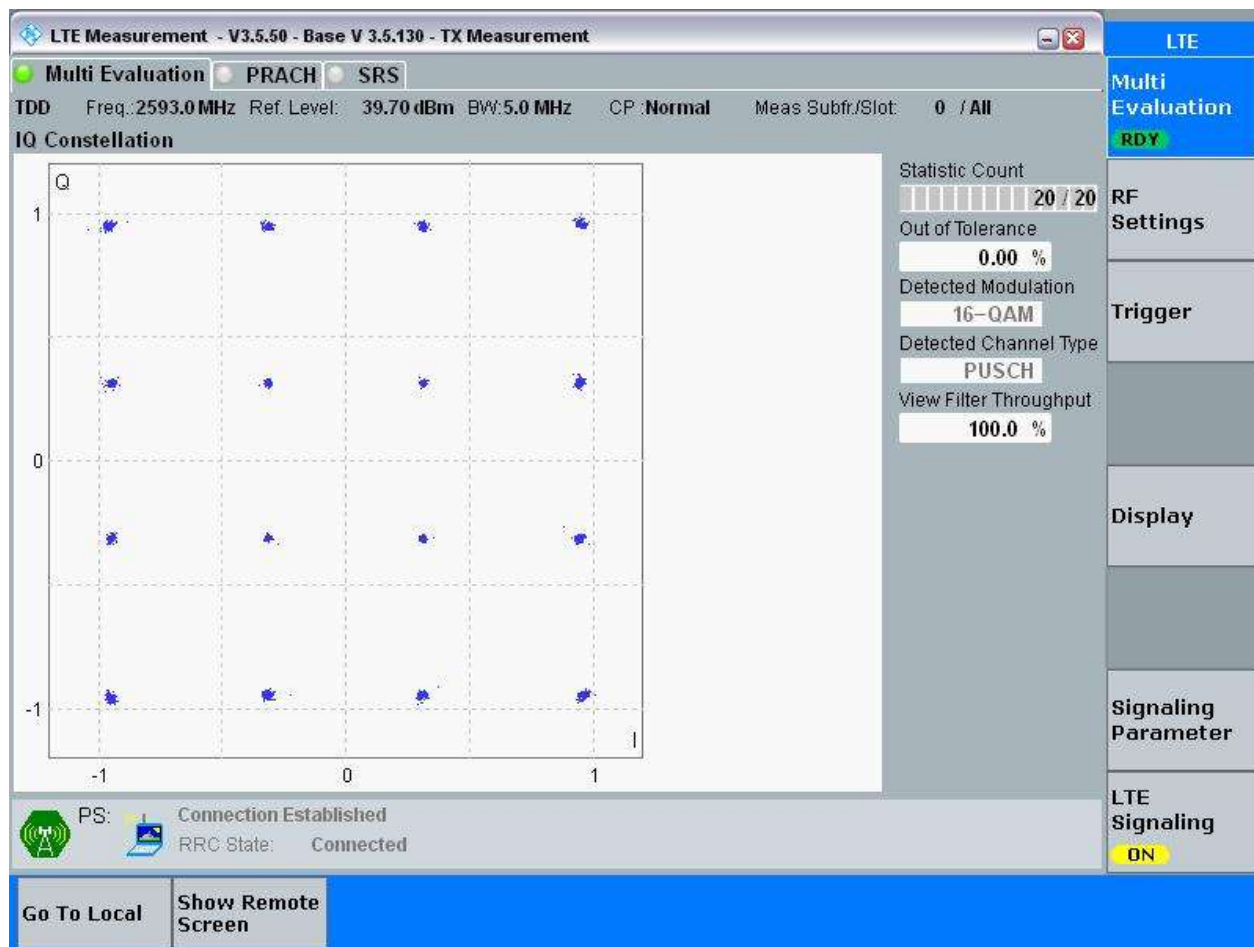


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

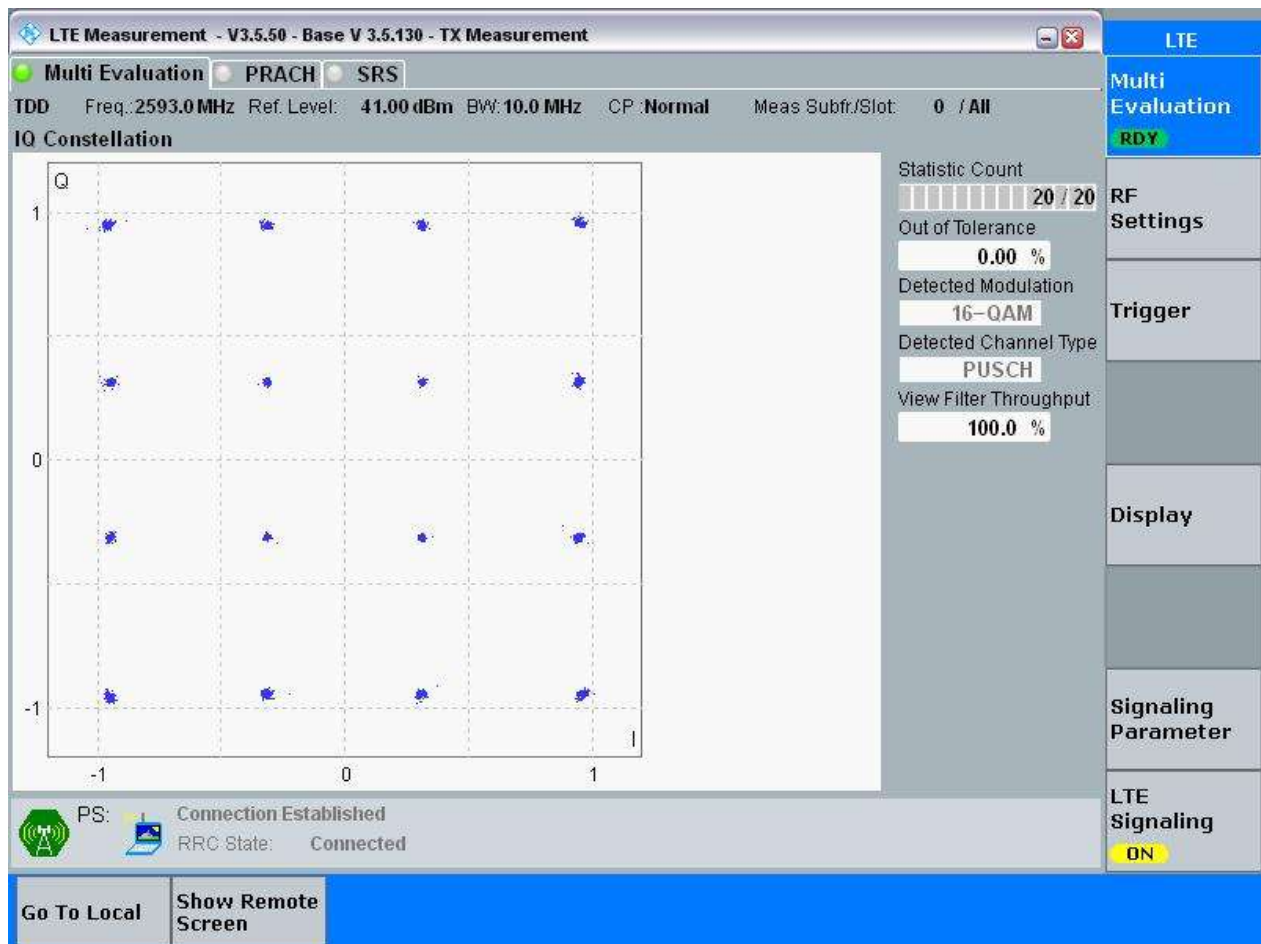
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

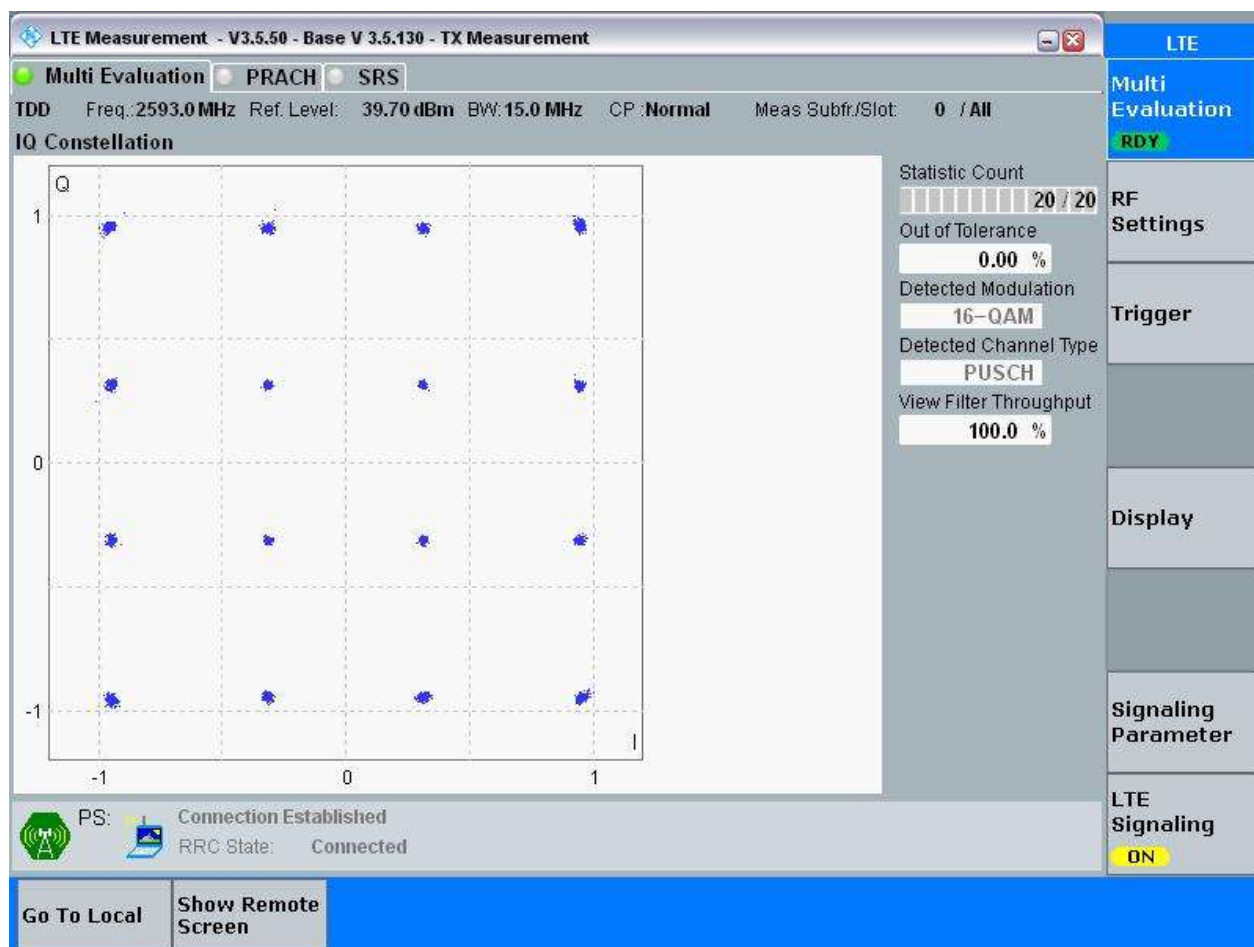
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

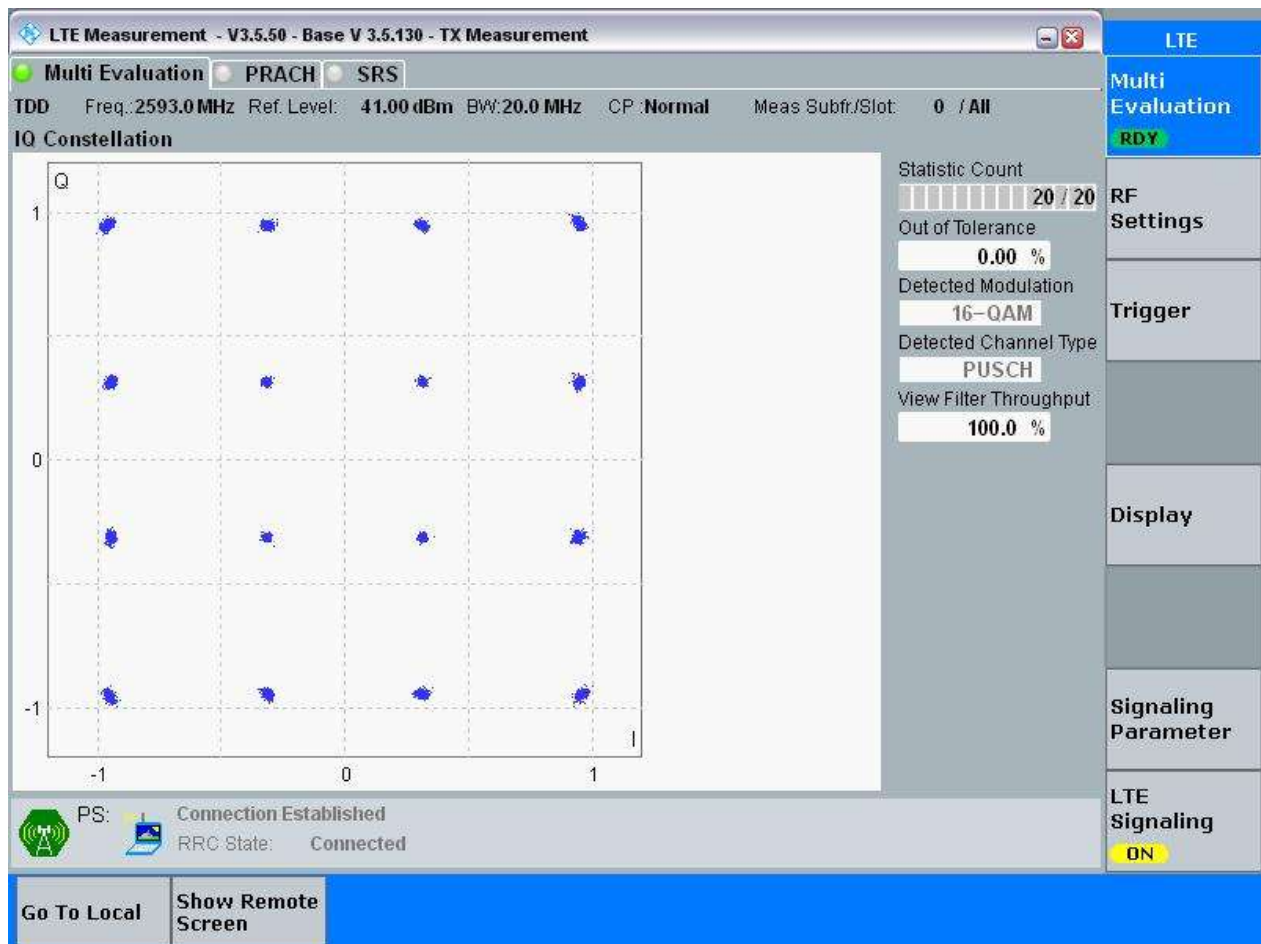
3.1.1.2.3.1.1 Test RB = RB75#0



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
BAND41	LTE/TM1	5	LCH	RB25#0	4.52	5.01	Pass
			MCH	RB25#0	4.51	4.97	Pass
			HCH	RB25#0	4.49	4.96	Pass
		10	LCH	RB50#0	8.98	9.90	Pass
			MCH	RB50#0	8.98	9.85	Pass
			HCH	RB50#0	8.99	9.89	Pass
		15	LCH	RB75#0	13.48	14.94	Pass
			MCH	RB75#0	13.48	14.99	Pass
			HCH	RB75#0	13.49	15.01	Pass
		20	LCH	RB100#0	17.96	19.78	Pass
			MCH	RB100#0	18.00	19.71	Pass
			HCH	RB100#0	17.97	19.75	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.95	Pass
			MCH	RB25#0	4.51	4.94	Pass
			HCH	RB25#0	4.51	4.95	Pass
		10	LCH	RB50#0	9.00	9.93	Pass
			MCH	RB50#0	9.03	9.93	Pass
			HCH	RB50#0	8.97	9.92	Pass
		15	LCH	RB75#0	13.51	14.96	Pass
			MCH	RB75#0	13.53	15.04	Pass
			HCH	RB75#0	13.49	14.97	Pass
		20	LCH	RB100#0	18.02	19.83	Pass
			MCH	RB100#0	18.04	19.87	Pass
			HCH	RB100#0	17.98	20.26	Pass



Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = BAND41

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

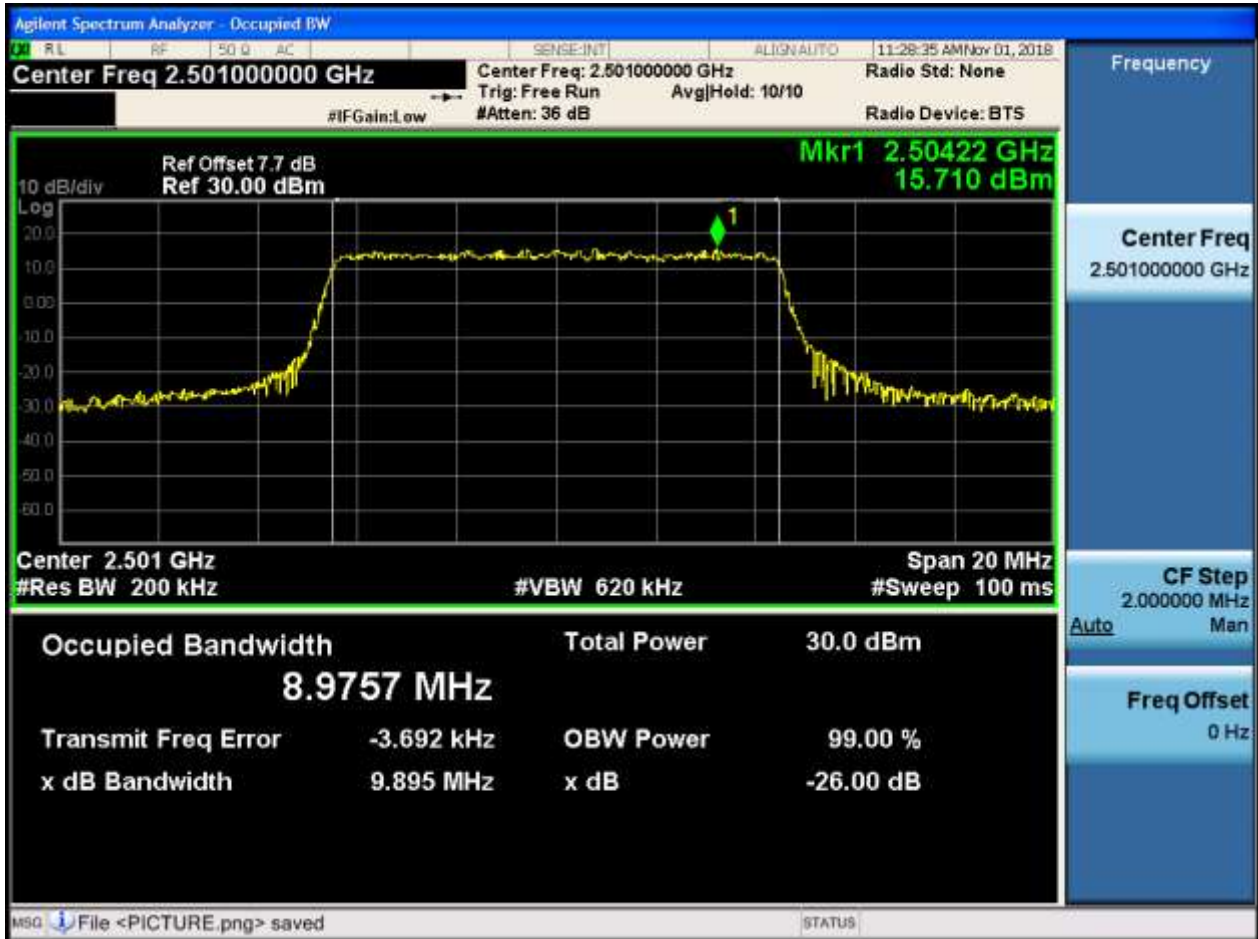




4.1.1.1.2 Test Bandwidth = 10

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

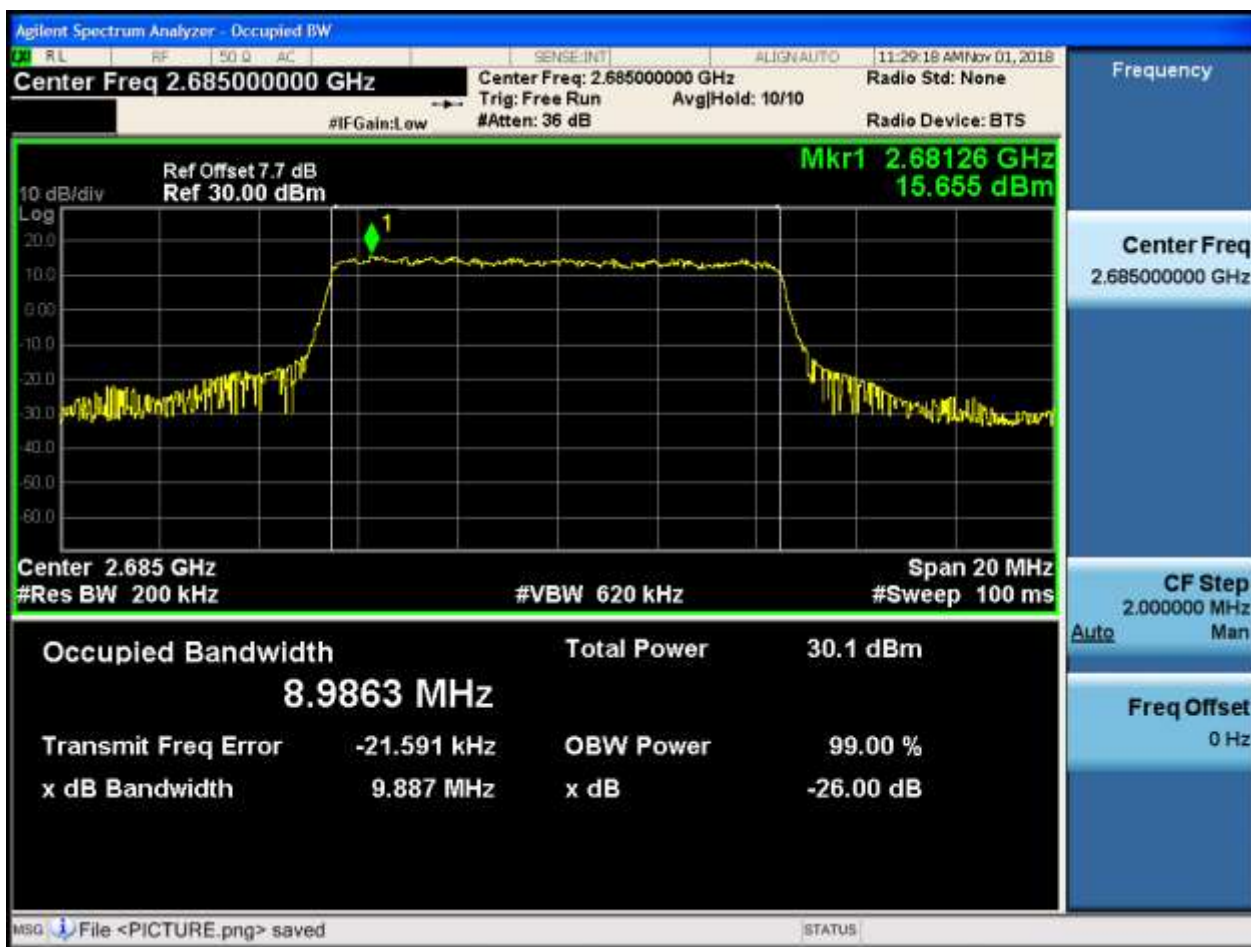
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

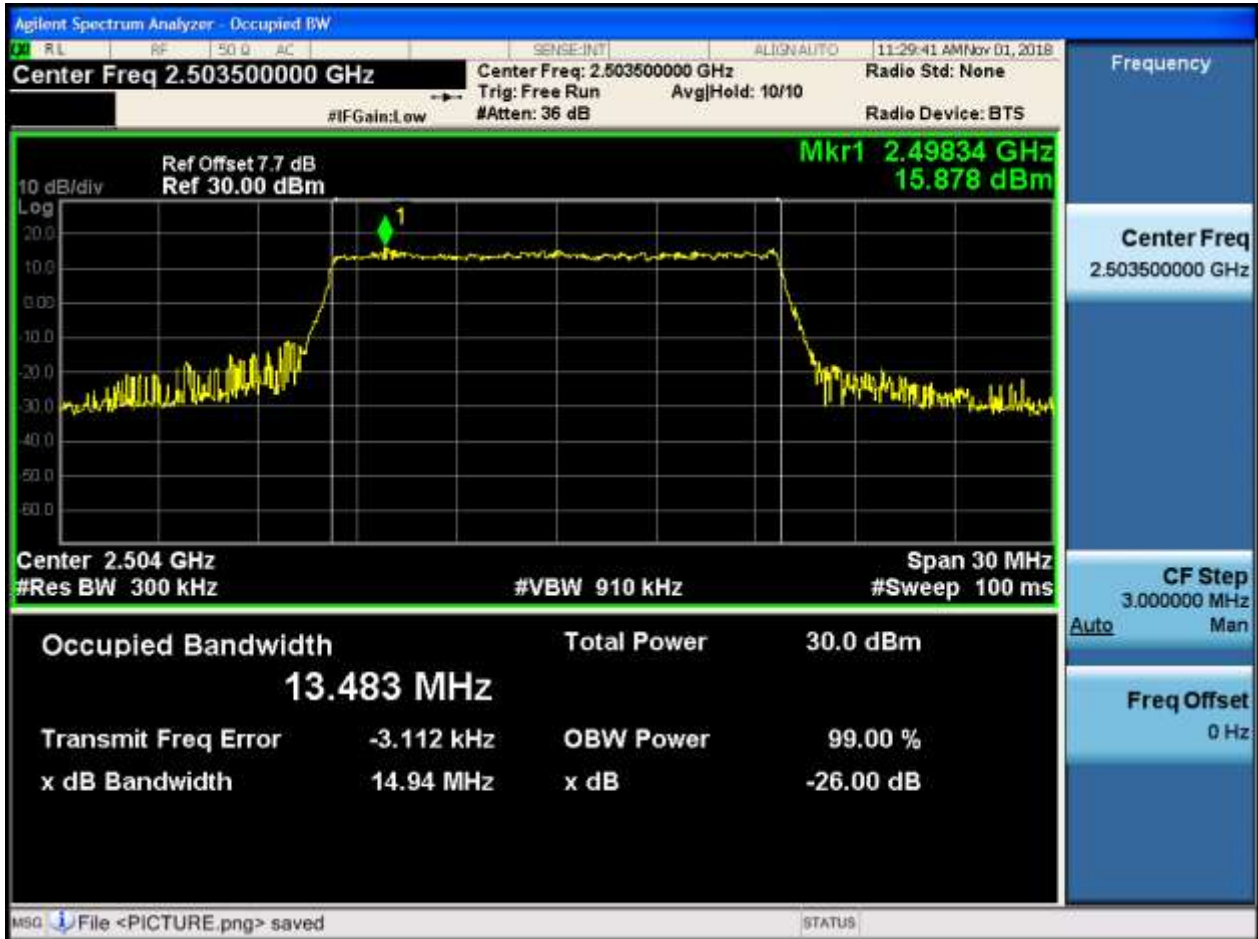




4.1.1.1.3 Test Bandwidth = 15

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

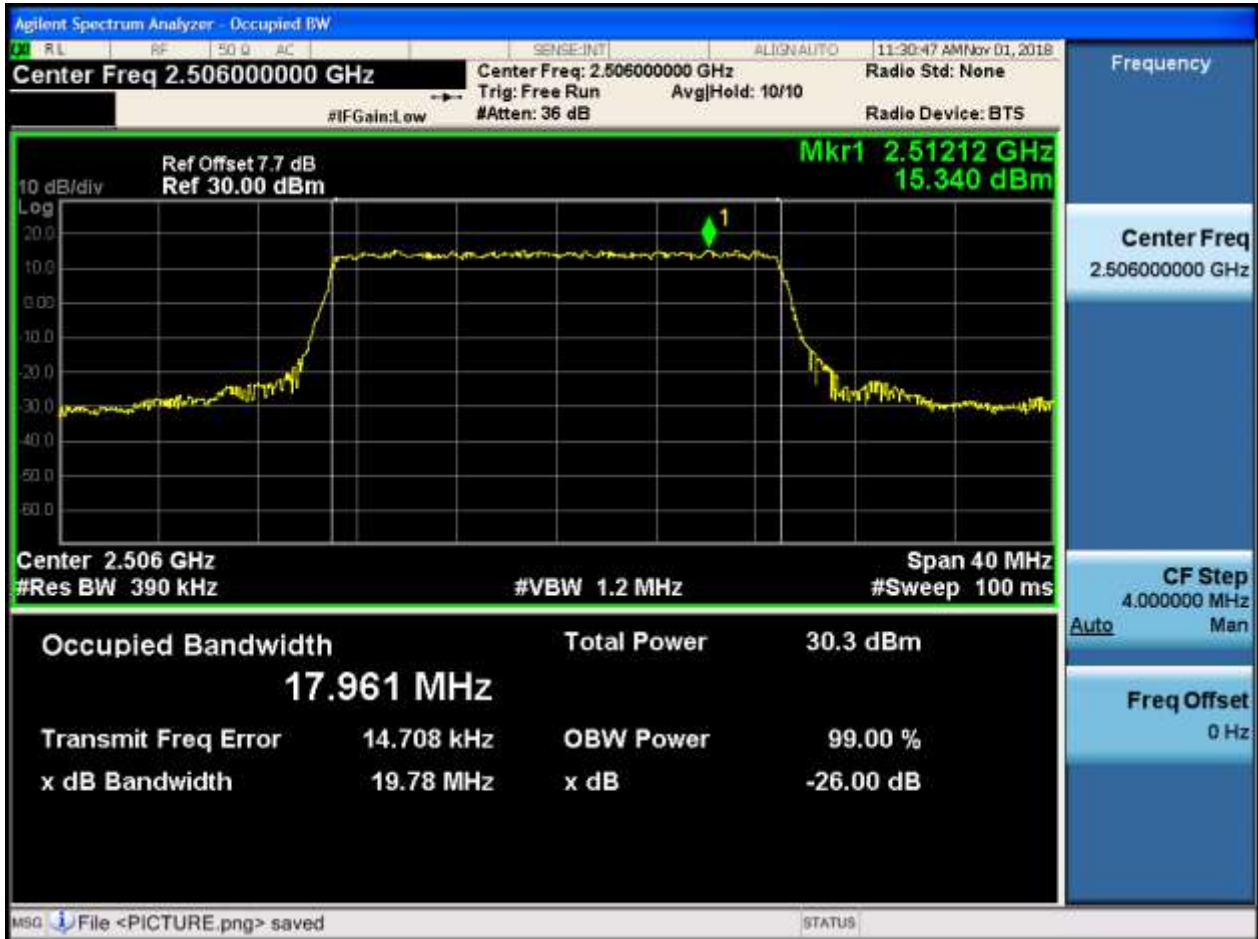




4.1.1.1.4 Test Bandwidth = 20

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

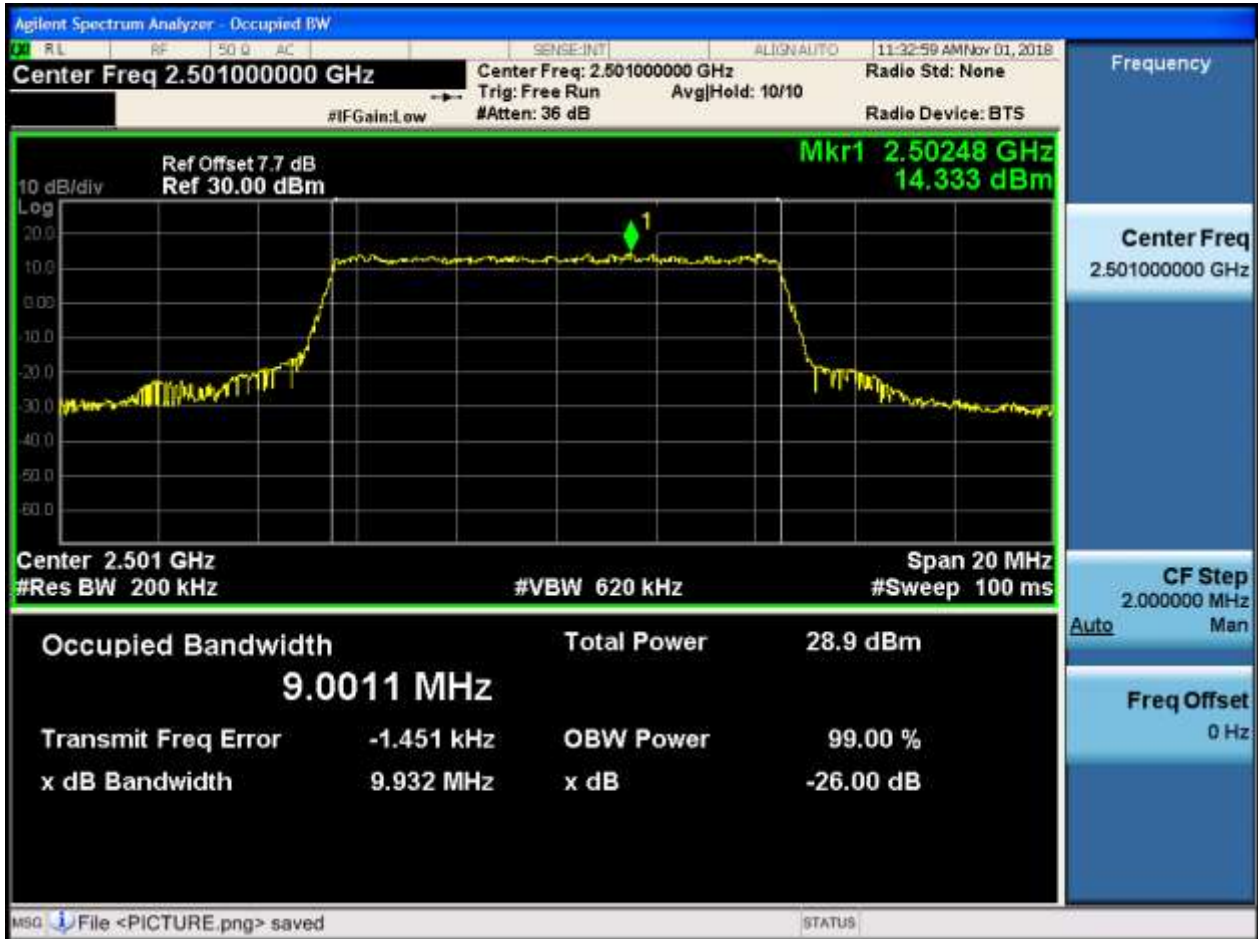




4.1.1.2.2 Test Bandwidth = 10

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

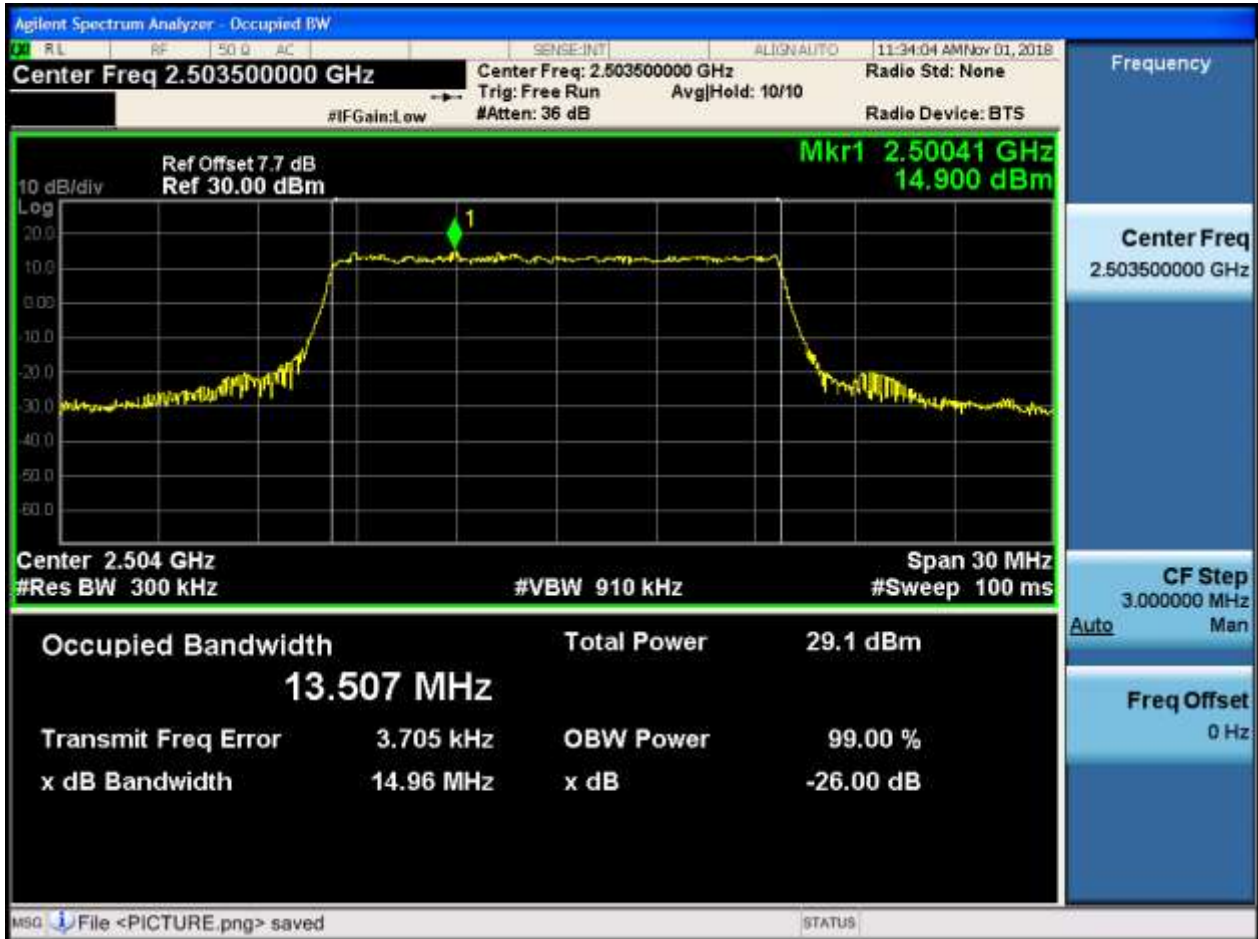




4.1.1.2.3 Test Bandwidth = 15

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

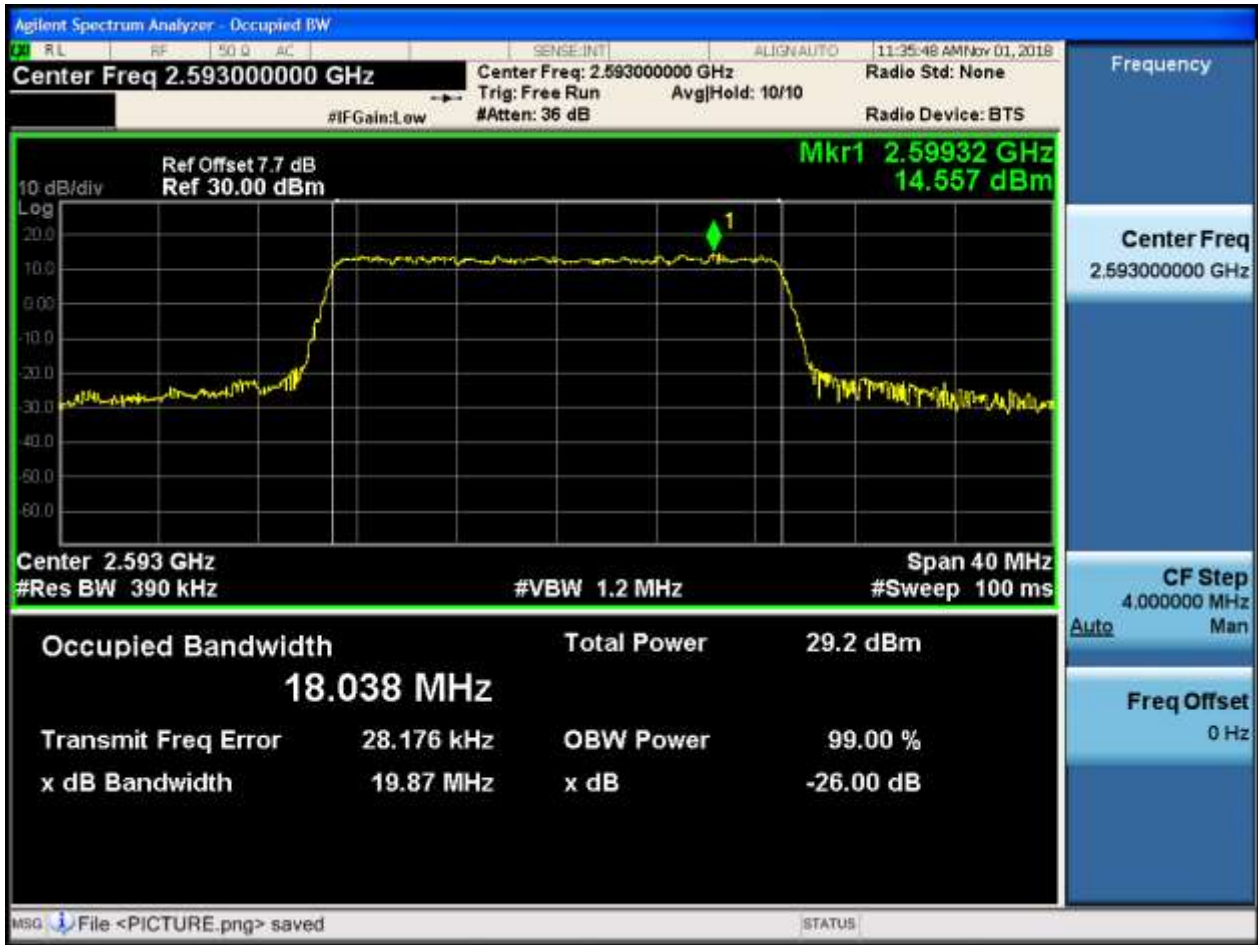
4.1.1.2.4.1 Test Channel = LCH

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

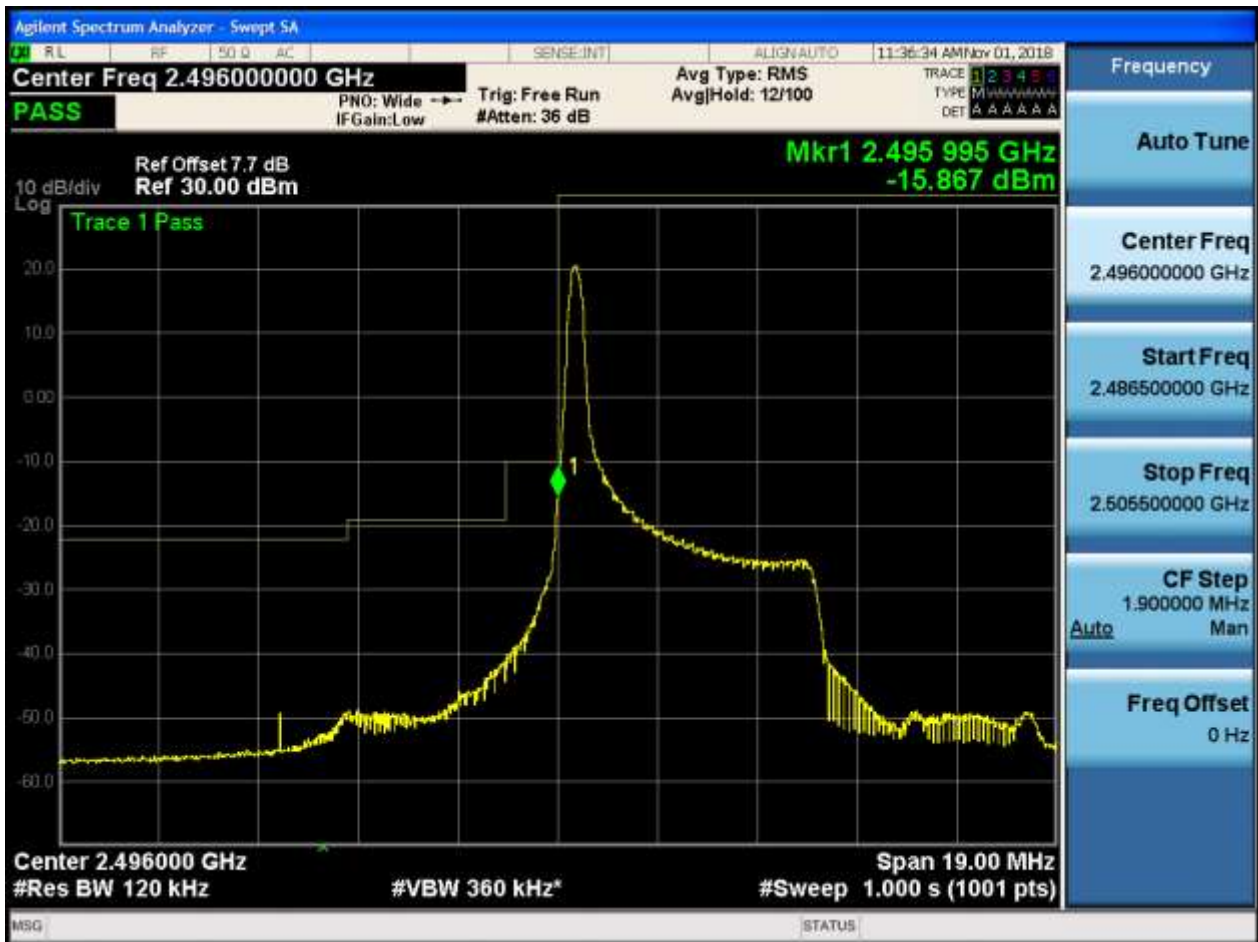
5.1.1 Test Band = BAND41

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





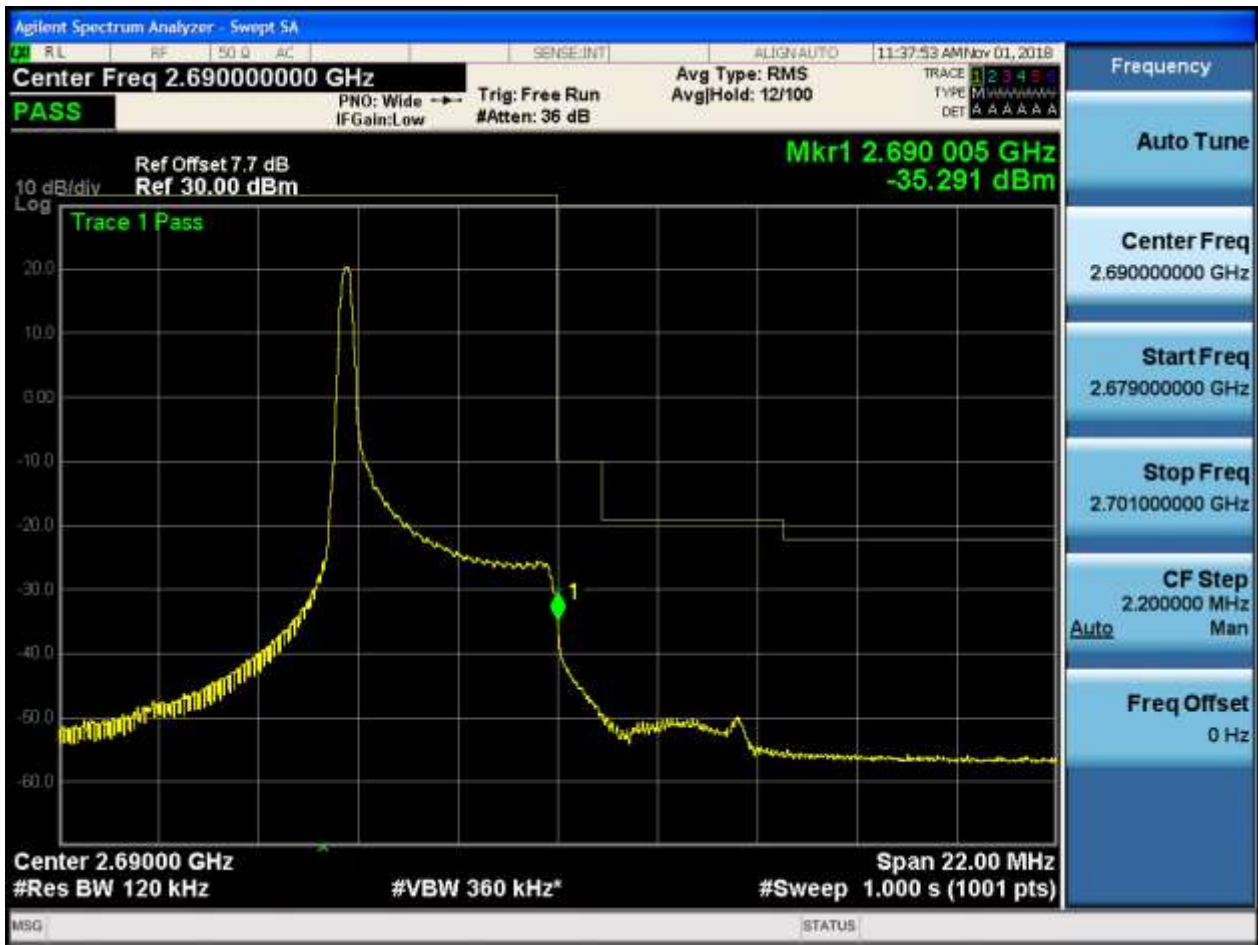
5.1.1.1.1.3 Test RB = RB12#6





5.1.1.1.1.2 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

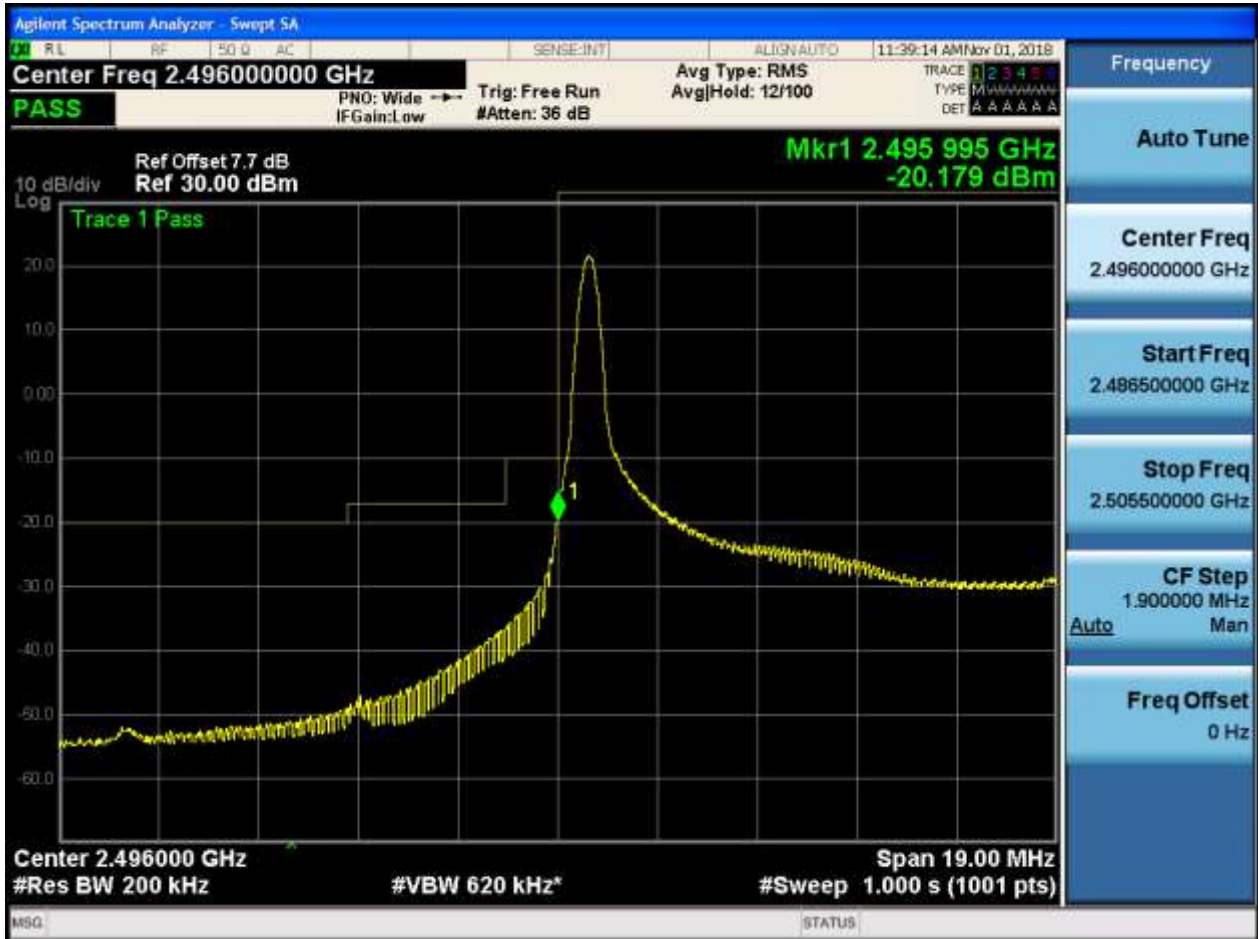




5.1.1.1.2 Test Bandwidth = 10

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





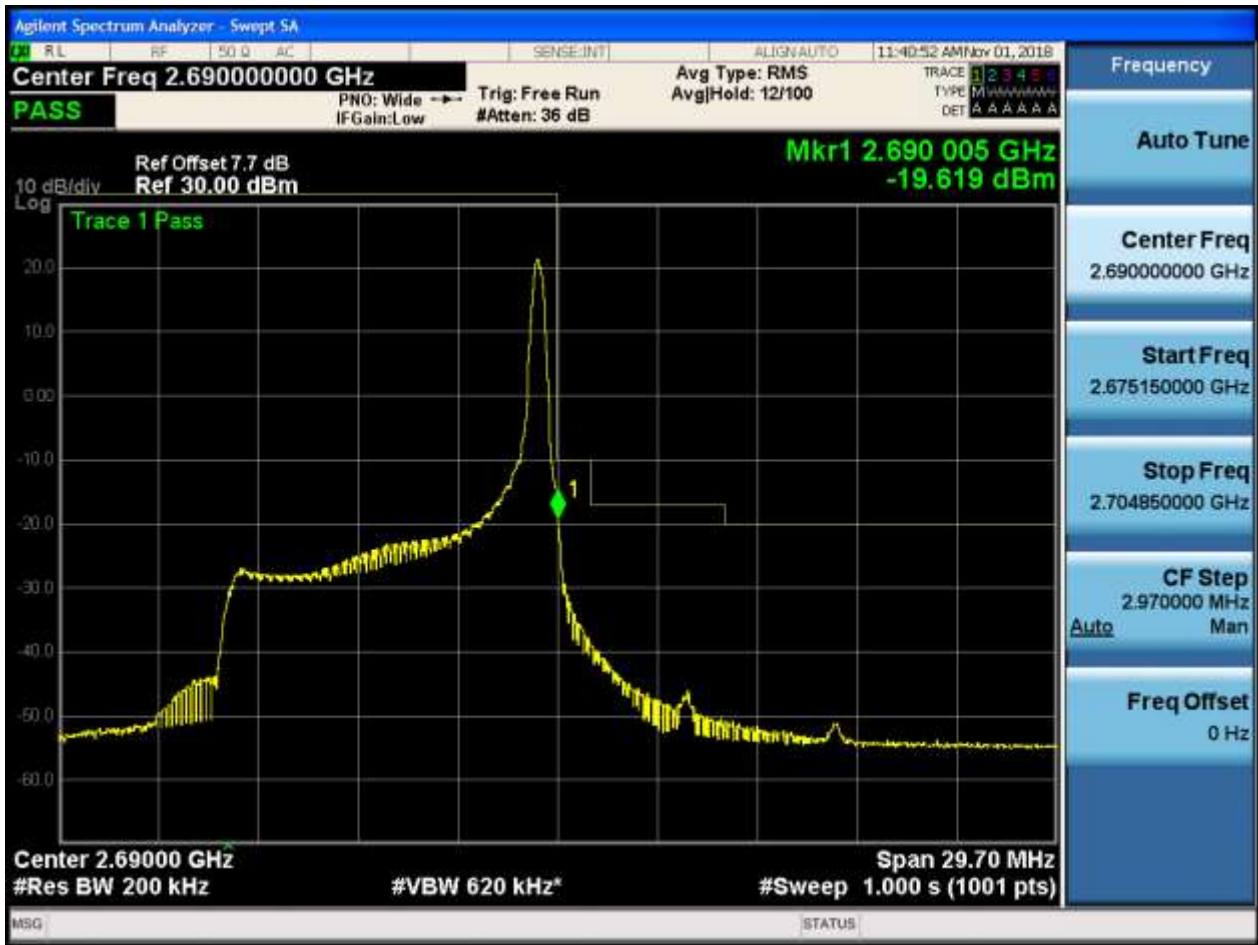
5.1.1.1.2.2 Test Channel = HCH

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





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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 11:43:45 AM Nov 01, 2018

Center Freq 2.690000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run #Atten: 36 dB
TRAC 1 2 3 4 5
TYPE M U W W W W W W W W
DET A A A A A A A A

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.690 01 GHz
-18.334 dBm

10 dB/div
Log

Trace 1 Pass

Center Freq 2.690000000 GHz
Start Freq 2.670360000 GHz
Stop Freq 2.709640000 GHz
CF Step 3.928000 MHz
Auto Man
Freq Offset 0 Hz

Center 2.69000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Span 39.28 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

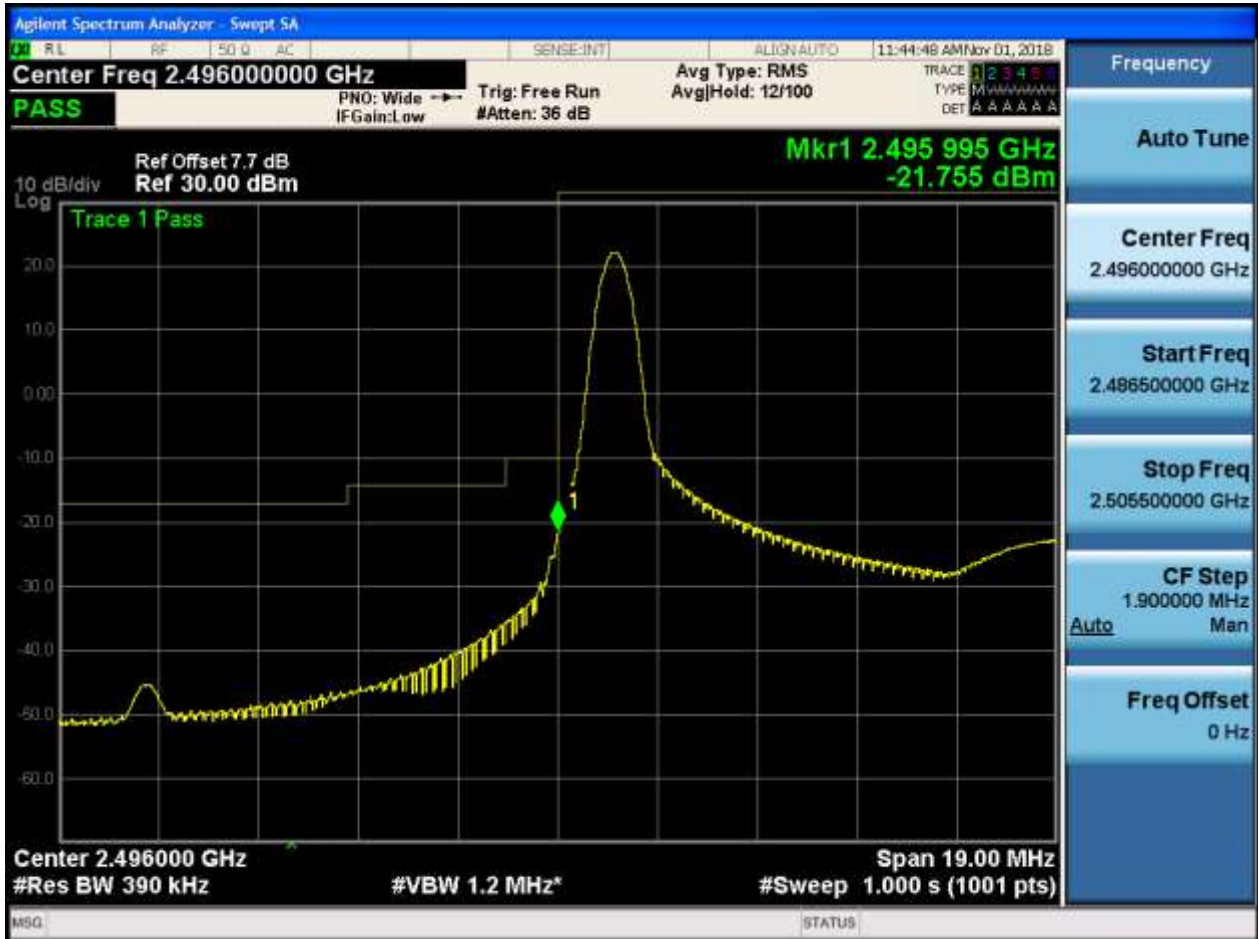




5.1.1.1.4 Test Bandwidth = 20

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



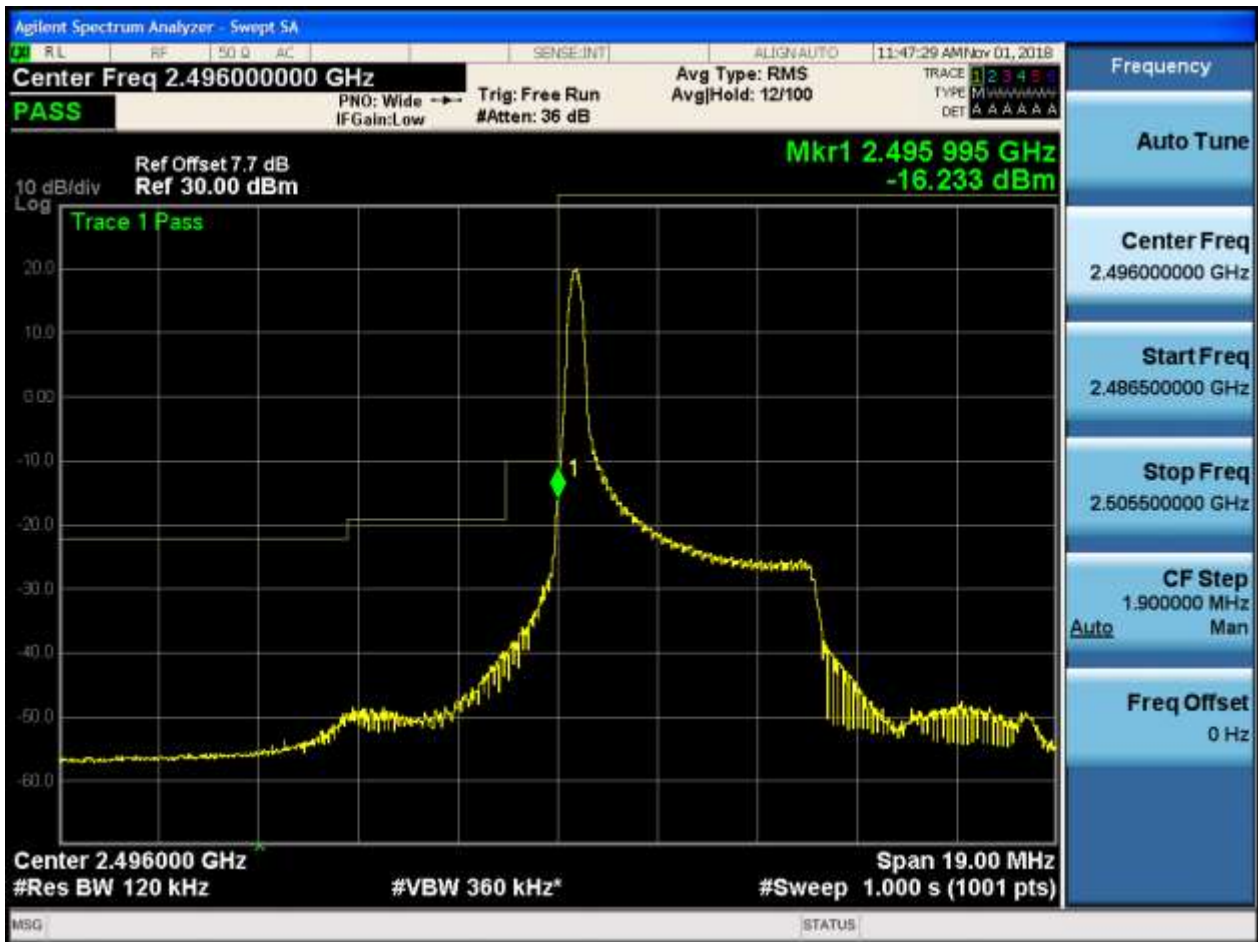


5.1.1.2 Test Mode = LTE/TM2

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





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.690000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.690 005 GHz
-15.542 dBm

Trace 1 Pass

Center 2.69000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.690000000 GHz

Start Freq
2.679000000 GHz

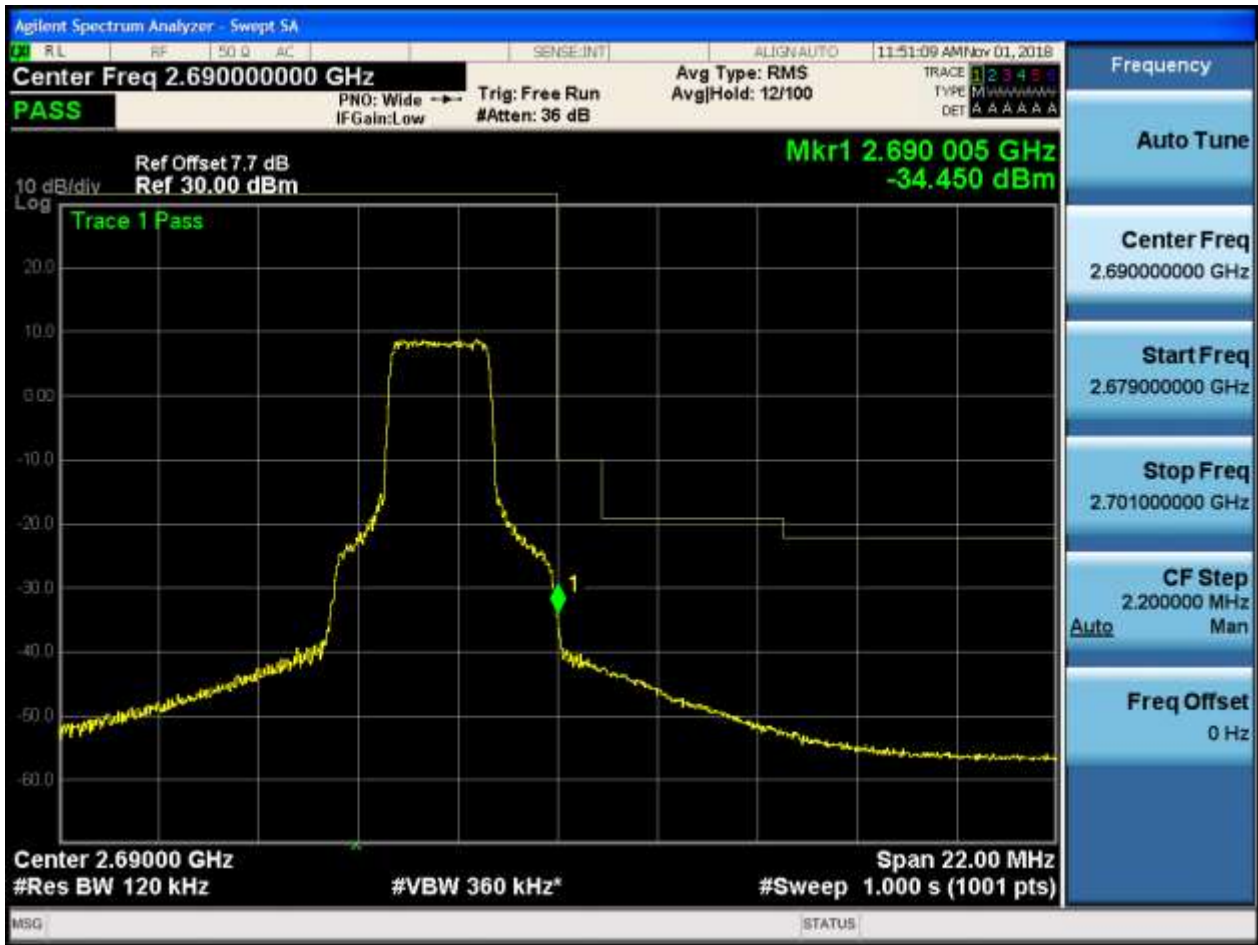
Stop Freq
2.701000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.1.2.3 Test RB = RB12#6







5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13





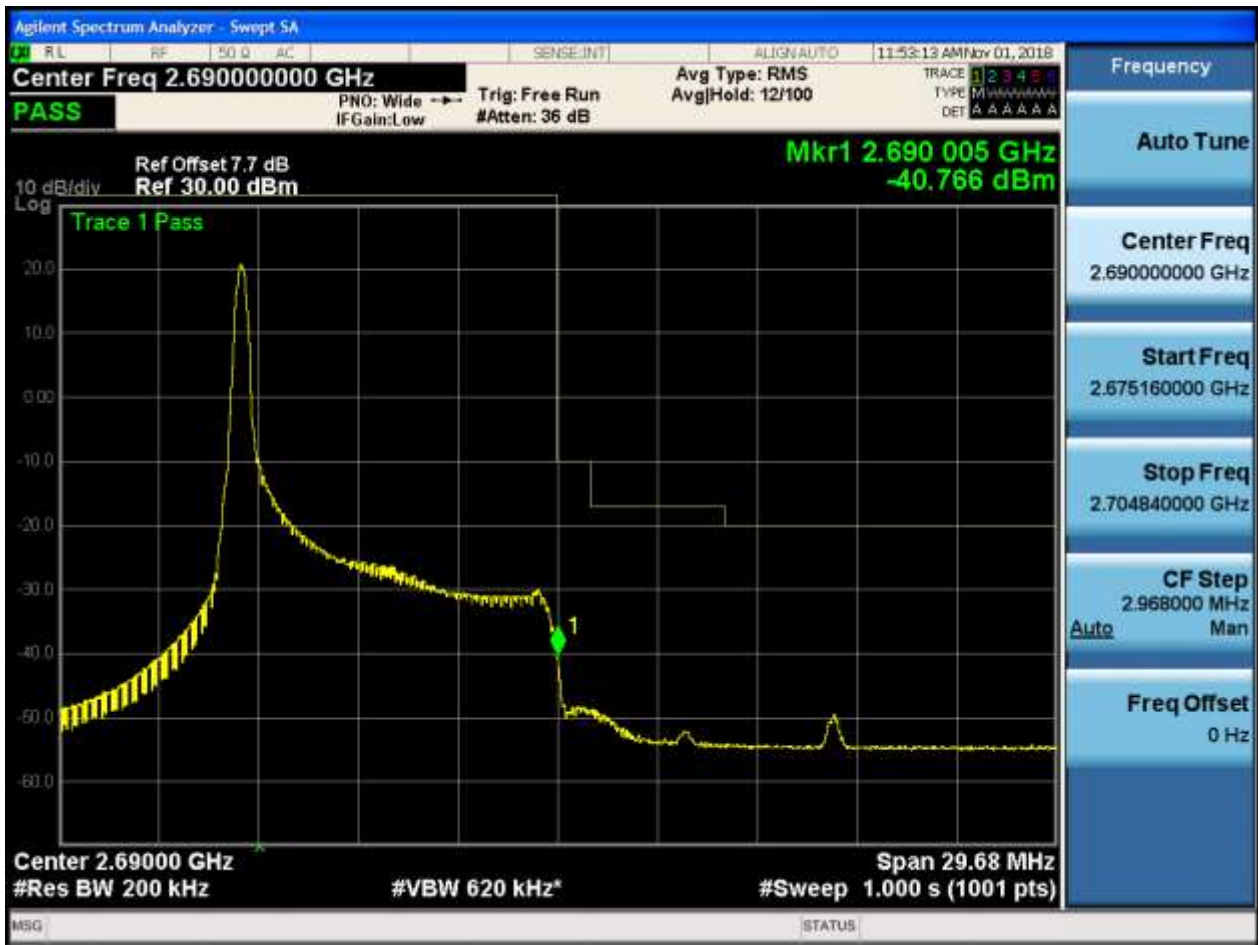
5.1.1.2.2.1.4 Test RB = RB50#0





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





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.690000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.690 005 GHz
-38.152 dBm

Trace 1 Pass

Center 2.69000 GHz
#Res BW 200 kHz

#VBW 620 kHz*

Span 29.68 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.690000000 GHz

Start Freq
2.675160000 GHz

Stop Freq
2.704840000 GHz

CF Step
2.968000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.4 Test RB = RB50#0

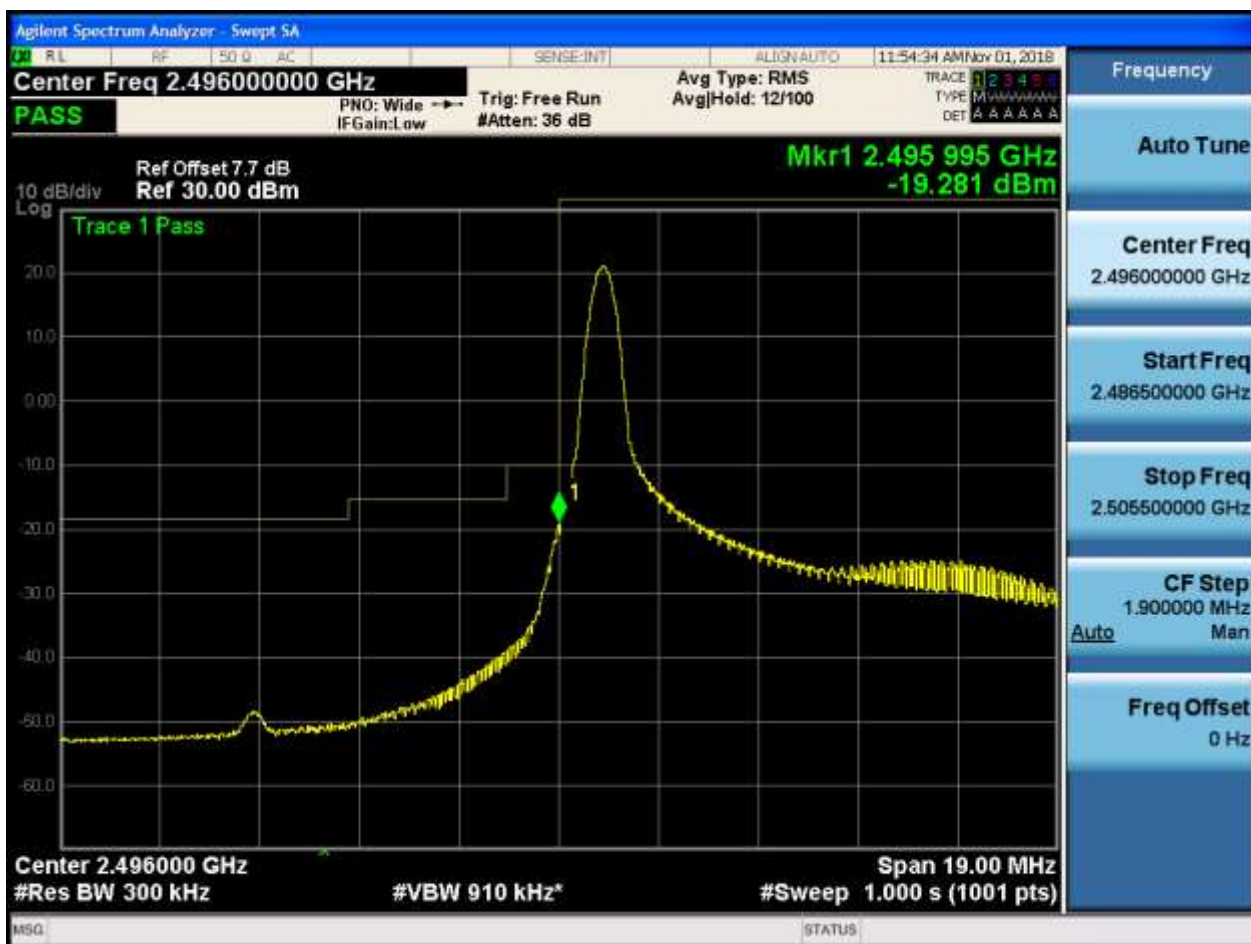




5.1.1.2.3 Test Bandwidth = 15

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 11:56:30 AM Nov 01, 2018

Center Freq 2.690000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run #Atten: 36 dB
TYPE: MAAAAAA
DET: AAAAAA

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.690 01 GHz
-37.989 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.69000 GHz
#Res BW 300 kHz #VBW 910 kHz*
Span 39.18 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.690000000 GHz

Start Freq
2.670410000 GHz

Stop Freq
2.709590000 GHz

CF Step
3.918000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.2.3.2.4 Test RB = RB75#0

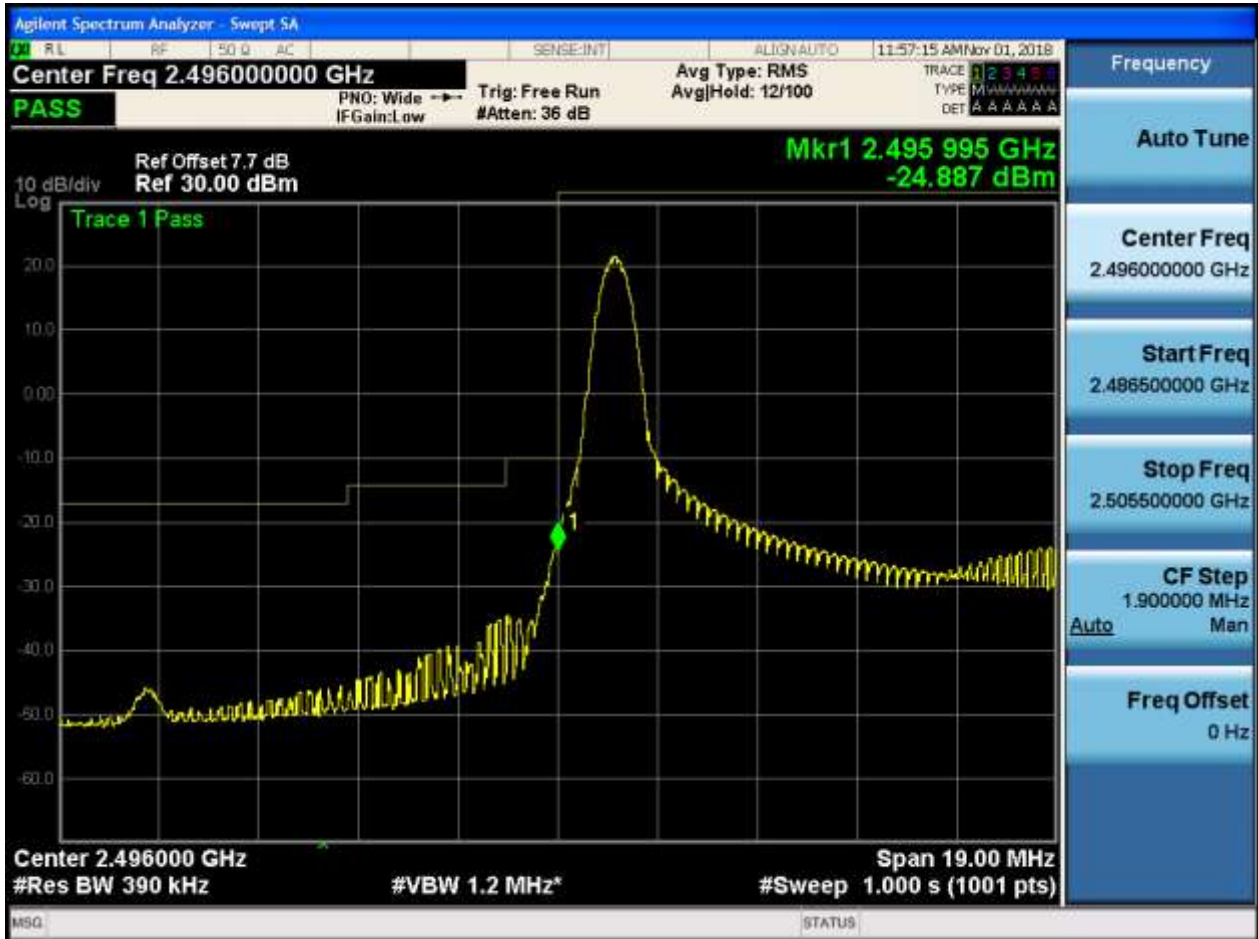




5.1.1.2.4 Test Bandwidth = 20

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





5.1.1.2.4.2.3 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 = BAND41

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

