



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	21.2	22.7	33	PASS
				RB1#13	21.2	22.7	33	PASS
				RB1#24	21.15	22.65	33	PASS
				RB12#0	20.12	21.62	33	PASS
				RB12#6	20.12	21.62	33	PASS
				RB12#13	20.13	21.63	33	PASS
				RB25#0	20.08	21.58	33	PASS
			MCH	RB1#0	21.11	22.61	33	PASS
				RB1#13	21.12	22.62	33	PASS
				RB1#24	21.07	22.57	33	PASS
				RB12#0	20.15	21.65	33	PASS
				RB12#6	20.16	21.66	33	PASS
				RB12#13	20.11	21.61	33	PASS
				RB25#0	20.09	21.59	33	PASS
			HCH	RB1#0	21.03	22.53	33	PASS
				RB1#13	21	22.5	33	PASS
				RB1#24	20.99	22.49	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#0	20.09	21.59	33	PASS
				RB12#6	20.1	21.6	33	PASS
				RB12#13	20.08	21.58	33	PASS
				RB25#0	20.03	21.53	33	PASS
		10	LCH	RB1#0	21.1	22.6	33	PASS
				RB1#25	21.13	22.63	33	PASS
				RB1#49	21.14	22.64	33	PASS
				RB25#0	20.11	21.61	33	PASS
				RB25#13	20.12	21.62	33	PASS
				RB25#25	20.12	21.62	33	PASS
				RB50#0	20.12	21.62	33	PASS
			MCH	RB1#0	21.02	22.52	33	PASS
				RB1#25	21.06	22.56	33	PASS
				RB1#49	21.03	22.53	33	PASS
				RB25#0	20.12	21.62	33	PASS
				RB25#13	20.12	21.62	33	PASS
				RB25#25	20.08	21.58	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB50#0	20.12	21.62	33	PASS
				RB1#0	21.05	22.55	33	PASS
				RB1#25	21.09	22.59	33	PASS
				RB1#49	21.04	22.54	33	PASS
				RB25#0	20.05	21.55	33	PASS
				RB25#13	20.02	21.52	33	PASS
				RB25#25	20.05	21.55	33	PASS
				RB50#0	20.07	21.57	33	PASS
		15	LCH	RB1#0	21.16	22.66	33	PASS
				RB1#38	21.16	22.66	33	PASS
				RB1#74	21.09	22.59	33	PASS
				RB36#0	20.2	21.7	33	PASS
				RB36#18	20.23	21.73	33	PASS
				RB36#39	20.19	21.69	33	PASS
				RB75#0	20.24	21.74	33	PASS
			MCH	RB1#0	21.07	22.57	33	PASS
				RB1#38	21.13	22.63	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#74	21.1	22.6	33	PASS
				RB36#0	20.11	21.61	33	PASS
				RB36#18	20.12	21.62	33	PASS
				RB36#39	20.12	21.62	33	PASS
				RB75#0	20.12	21.62	33	PASS
			HCH	RB1#0	21.11	22.61	33	PASS
				RB1#38	21.08	22.58	33	PASS
				RB1#74	21.09	22.59	33	PASS
				RB36#0	20.1	21.6	33	PASS
				RB36#18	20.1	21.6	33	PASS
				RB36#39	20.09	21.59	33	PASS
				RB75#0	20.12	21.62	33	PASS
		20	LCH	RB1#0	21.19	22.69	33	PASS
				RB1#50	21.16	22.66	33	PASS
				RB1#99	21.11	22.61	33	PASS
				RB50#0	20.13	21.63	33	PASS
				RB50#25	20.11	21.61	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.06	21.56	33	PASS
				RB100#0	20.09	21.59	33	PASS
			MCH	RB1#0	21.11	22.61	33	PASS
				RB1#50	21.11	22.61	33	PASS
				RB1#99	21.09	22.59	33	PASS
				RB50#0	20.1	21.6	33	PASS
				RB50#25	20.12	21.62	33	PASS
				RB50#50	20.09	21.59	33	PASS
				RB100#0	20.1	21.6	33	PASS
			HCH	RB1#0	21.11	22.61	33	PASS
				RB1#50	21.04	22.54	33	PASS
				RB1#99	21.09	22.59	33	PASS
				RB50#0	20.02	21.52	33	PASS
				RB50#25	20.05	21.55	33	PASS
				RB50#50	20.09	21.59	33	PASS
				RB100#0	20.05	21.55	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.33	21.83	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	20.3	21.8	33	PASS
				RB1#24	20.24	21.74	33	PASS
				RB12#0	19.13	20.63	33	PASS
				RB12#6	19.12	20.62	33	PASS
				RB12#13	19.09	20.59	33	PASS
				RB25#0	19.02	20.52	33	PASS
			MCH	RB1#0	20.19	21.69	33	PASS
				RB1#13	20.18	21.68	33	PASS
				RB1#24	20.14	21.64	33	PASS
				RB12#0	19.11	20.61	33	PASS
				RB12#6	19.1	20.6	33	PASS
				RB12#13	19.08	20.58	33	PASS
				RB25#0	19.11	20.61	33	PASS
			HCH	RB1#0	20.63	22.13	33	PASS
				RB1#13	20.61	22.11	33	PASS
				RB1#24	20.56	22.06	33	PASS
				RB12#0	19.14	20.64	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#6	19.15	20.65	33	PASS
				RB12#13	19.14	20.64	33	PASS
				RB25#0	19.07	20.57	33	PASS
		10	LCH	RB1#0	20.47	21.97	33	PASS
				RB1#25	20.44	21.94	33	PASS
				RB1#49	20.37	21.87	33	PASS
				RB25#0	19.04	20.54	33	PASS
				RB25#13	19.05	20.55	33	PASS
				RB25#25	19.05	20.55	33	PASS
				RB50#0	19.07	20.57	33	PASS
			MCH	RB1#0	20.28	21.78	33	PASS
				RB1#25	20.33	21.83	33	PASS
				RB1#49	20.26	21.76	33	PASS
				RB25#0	19.11	20.61	33	PASS
				RB25#13	19.11	20.61	33	PASS
				RB25#25	19.08	20.58	33	PASS
				RB50#0	19.13	20.63	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	20.1	21.6	33	PASS
				RB1#25	20.16	21.66	33	PASS
				RB1#49	20.13	21.63	33	PASS
				RB25#0	19.14	20.64	33	PASS
				RB25#13	19.15	20.65	33	PASS
				RB25#25	19.18	20.68	33	PASS
				RB50#0	19.06	20.56	33	PASS
		15	LCH	RB1#0	20.48	21.98	33	PASS
				RB1#38	20.42	21.92	33	PASS
				RB1#74	20.36	21.86	33	PASS
				RB36#0	19.13	20.63	33	PASS
				RB36#18	19.16	20.66	33	PASS
				RB36#39	19.11	20.61	33	PASS
				RB75#0	19.15	20.65	33	PASS
			MCH	RB1#0	20.22	21.72	33	PASS
				RB1#38	20.27	21.77	33	PASS
				RB1#74	20.14	21.64	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#0	19.06	20.56	33	PASS
				RB36#18	19.04	20.54	33	PASS
				RB36#39	19.03	20.53	33	PASS
				RB75#0	19.09	20.59	33	PASS
			HCH	RB1#0	20.08	21.58	33	PASS
				RB1#38	20.11	21.61	33	PASS
				RB1#74	20.18	21.68	33	PASS
				RB36#0	19.03	20.53	33	PASS
				RB36#18	19.11	20.61	33	PASS
				RB36#39	19.1	20.6	33	PASS
				RB75#0	19.1	20.6	33	PASS
		20	LCH	RB1#0	20.69	22.19	33	PASS
				RB1#50	20.59	22.09	33	PASS
				RB1#99	20.61	22.11	33	PASS
				RB50#0	19.08	20.58	33	PASS
				RB50#25	19.05	20.55	33	PASS
				RB50#50	19.02	20.52	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	19.07	20.57	33	PASS
				RB1#0	20.41	21.91	33	PASS
			MCH	RB1#50	20.39	21.89	33	PASS
				RB1#99	20.27	21.77	33	PASS
				RB50#0	19.1	20.6	33	PASS
				RB50#25	19.11	20.61	33	PASS
				RB50#50	19.07	20.57	33	PASS
				RB100#0	19.1	20.6	33	PASS
			HCH	RB1#0	20.13	21.63	33	PASS
				RB1#50	20.08	21.58	33	PASS
				RB1#99	20.23	21.73	33	PASS
				RB50#0	18.96	20.46	33	PASS
				RB50#25	19.01	20.51	33	PASS
				RB50#50	19.08	20.58	33	PASS
				RB100#0	19.02	20.52	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:

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

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

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

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
BAND7	LTE/TM1	5	LCH	RB1#0	3.12	13	PASS
				RB1#13	2.85	13	PASS
				RB1#24	2.65	13	PASS
				RB12#0	4.58	13	PASS
				RB12#6	4.18	13	PASS
				RB12#13	4.33	13	PASS
				RB25#0	5.25	13	PASS
			MCH	RB1#0	3.83	13	PASS
				RB1#13	3.7	13	PASS
				RB1#24	3.68	13	PASS
				RB12#0	5.47	13	PASS
				RB12#6	5.21	13	PASS
				RB12#13	5.3	13	PASS
				RB25#0	5.7	13	PASS
			HCH	RB1#0	3.22	13	PASS
				RB1#13	3.36	13	PASS
				RB1#24	3.3	13	PASS
				RB12#0	5.31	13	PASS
				RB12#6	5.11	13	PASS
				RB12#13	5.32	13	PASS
				RB25#0	5.71	13	PASS
		10	LCH	RB1#0	2.92	13	PASS
				RB1#25	2.49	13	PASS
				RB1#49	2.17	13	PASS
				RB25#0	4.41	13	PASS
				RB25#13	3.85	13	PASS
				RB25#25	3.96	13	PASS
				RB50#0	4.87	13	PASS
			MCH	RB1#0	3.56	13	PASS
				RB1#25	3.53	13	PASS
				RB1#49	3.33	13	PASS
				RB25#0	5.33	13	PASS
				RB25#13	5.18	13	PASS
				RB25#25	5.14	13	PASS
				RB50#0	5.63	13	PASS
			HCH	RB1#0	2.81	13	PASS
				RB1#25	3.24	13	PASS
				RB1#49	3.36	13	PASS
				RB25#0	4.83	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		15		RB25#13	4.9	13	PASS
				RB25#25	5.13	13	PASS
				RB50#0	5.47	13	PASS
			LCH	RB1#0	2.88	13	PASS
				RB1#38	2.26	13	PASS
				RB1#74	2.16	13	PASS
				RB36#0	4.24	13	PASS
				RB36#18	3.62	13	PASS
				RB36#39	3.87	13	PASS
				RB75#0	5.15	13	PASS
			MCH	RB1#0	3.33	13	PASS
				RB1#38	3.54	13	PASS
				RB1#74	3.16	13	PASS
				RB36#0	5.41	13	PASS
				RB36#18	5.26	13	PASS
				RB36#39	5.1	13	PASS
				RB75#0	6.01	13	PASS
			HCH	RB1#0	2.21	13	PASS
				RB1#38	2.77	13	PASS
				RB1#74	3.13	13	PASS
				RB36#0	4.26	13	PASS
				RB36#18	4.42	13	PASS
				RB36#39	5.04	13	PASS
				RB75#0	5.46	13	PASS
		20	LCH	RB1#0	2.94	13	PASS
				RB1#50	2.19	13	PASS
				RB1#99	2.55	13	PASS
				RB50#0	4.44	13	PASS
				RB50#25	3.84	13	PASS
				RB50#50	4.06	13	PASS
				RB100#0	5.06	13	PASS
			MCH	RB1#0	3.28	13	PASS
				RB1#50	3.64	13	PASS
				RB1#99	2.95	13	PASS
				RB50#0	5.54	13	PASS
				RB50#25	5.4	13	PASS
				RB50#50	5.17	13	PASS
				RB100#0	5.52	13	PASS
			HCH	RB1#0	2.19	13	PASS
				RB1#50	2.56	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2			RB1#99	3.17	13	PASS
				RB50#0	4.29	13	PASS
				RB50#25	4.36	13	PASS
				RB50#50	5.08	13	PASS
				RB100#0	5.53	13	PASS
			LCH	RB1#0	4.17	13	PASS
				RB1#13	3.96	13	PASS
				RB1#24	3.78	13	PASS
				RB12#0	5.24	13	PASS
				RB12#6	4.97	13	PASS
				RB12#13	5.06	13	PASS
				RB25#0	6.02	13	PASS
		5	MCH	RB1#0	4.75	13	PASS
				RB1#13	4.69	13	PASS
				RB1#24	4.65	13	PASS
				RB12#0	6.11	13	PASS
				RB12#6	5.94	13	PASS
				RB12#13	6.01	13	PASS
				RB25#0	6.87	13	PASS
			HCH	RB1#0	3.65	13	PASS
				RB1#13	3.75	13	PASS
				RB1#24	3.75	13	PASS
				RB12#0	5.81	13	PASS
				RB12#6	5.68	13	PASS
				RB12#13	5.84	13	PASS
				RB25#0	6.25	13	PASS
		10	LCH	RB1#0	4.23	13	PASS
				RB1#25	3.8	13	PASS
				RB1#49	3.51	13	PASS
				RB25#0	5.47	13	PASS
				RB25#13	4.97	13	PASS
				RB25#25	5.06	13	PASS
				RB50#0	5.75	13	PASS
			MCH	RB1#0	4.85	13	PASS
				RB1#25	4.84	13	PASS
				RB1#49	4.64	13	PASS
				RB25#0	6.54	13	PASS
				RB25#13	6.37	13	PASS
				RB25#25	6.34	13	PASS
				RB50#0	6.58	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	3.84	13	PASS
				RB1#25	4.2	13	PASS
				RB1#49	4.37	13	PASS
				RB25#0	5.7	13	PASS
				RB25#13	5.81	13	PASS
				RB25#25	6.17	13	PASS
				RB50#0	6.32	13	PASS
		15	LCH	RB1#0	4.21	13	PASS
				RB1#38	3.58	13	PASS
				RB1#74	3.5	13	PASS
				RB36#0	5.38	13	PASS
				RB36#18	4.74	13	PASS
				RB36#39	4.86	13	PASS
				RB75#0	5.82	13	PASS
			MCH	RB1#0	4.7	13	PASS
				RB1#38	4.83	13	PASS
				RB1#74	4.43	13	PASS
				RB36#0	6.57	13	PASS
				RB36#18	6.36	13	PASS
				RB36#39	6.21	13	PASS
				RB75#0	6.61	13	PASS
			HCH	RB1#0	3.35	13	PASS
				RB1#38	3.92	13	PASS
				RB1#74	4.29	13	PASS
				RB36#0	5.36	13	PASS
				RB36#18	5.46	13	PASS
				RB36#39	6.12	13	PASS
				RB75#0	6.3	13	PASS
		20	LCH	RB1#0	3.33	13	PASS
				RB1#50	2.76	13	PASS
				RB1#99	3.14	13	PASS
				RB50#0	5.27	13	PASS
				RB50#25	4.69	13	PASS
				RB50#50	4.99	13	PASS
				RB100#0	6	13	PASS
			MCH	RB1#0	3.66	13	PASS
				RB1#50	3.91	13	PASS
				RB1#99	3.36	13	PASS
				RB50#0	6.47	13	PASS
				RB50#25	6.33	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#50	6.13	13	PASS
				RB100#0	6.48	13	PASS
			HCH	RB1#0	3.16	13	PASS
				RB1#50	3.53	13	PASS
				RB1#99	4.08	13	PASS
				RB50#0	5.15	13	PASS
				RB50#25	5.27	13	PASS
				RB50#50	5.95	13	PASS
				RB100#0	6.05	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

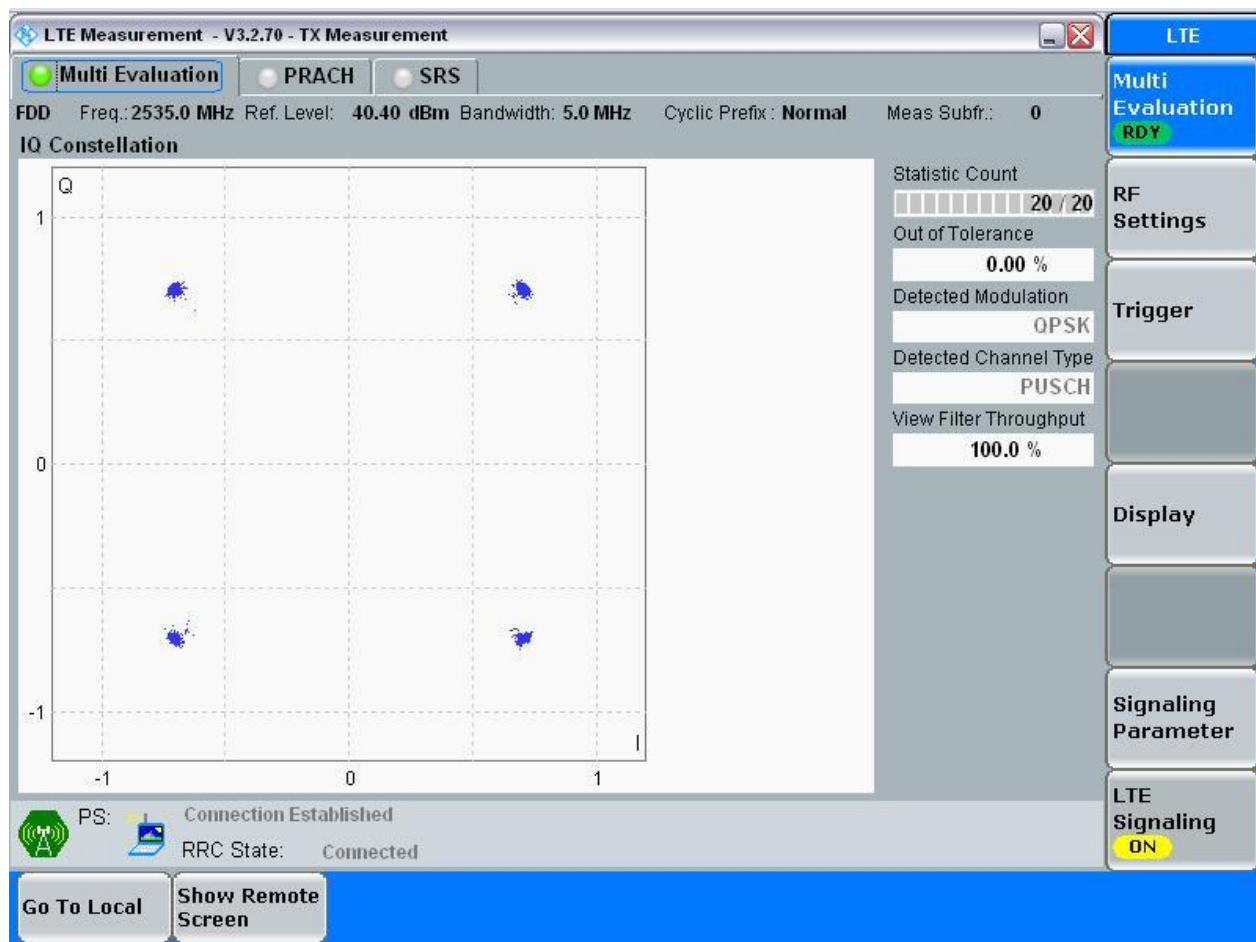
3.1.1 Test Band = BAND7

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

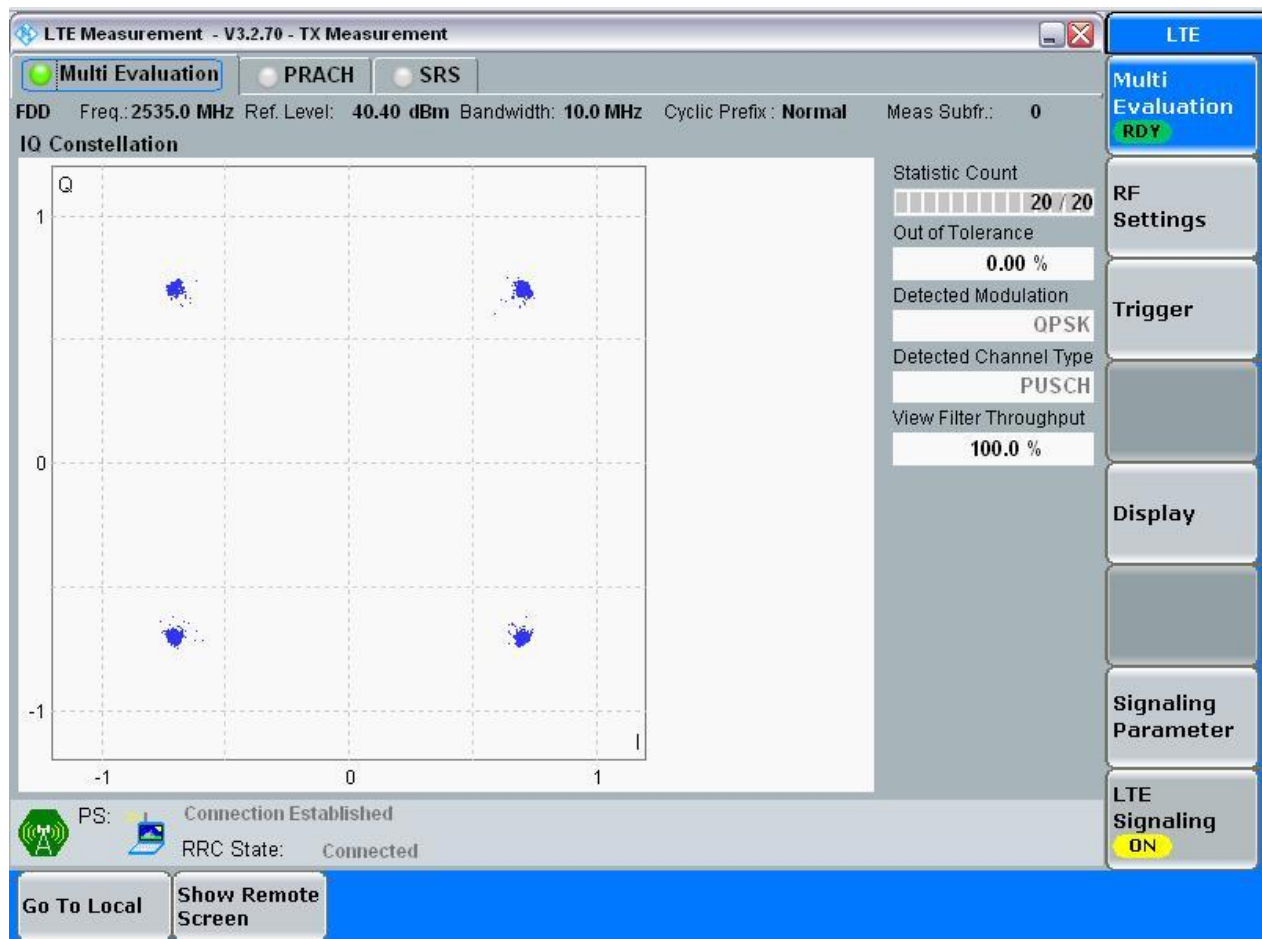
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

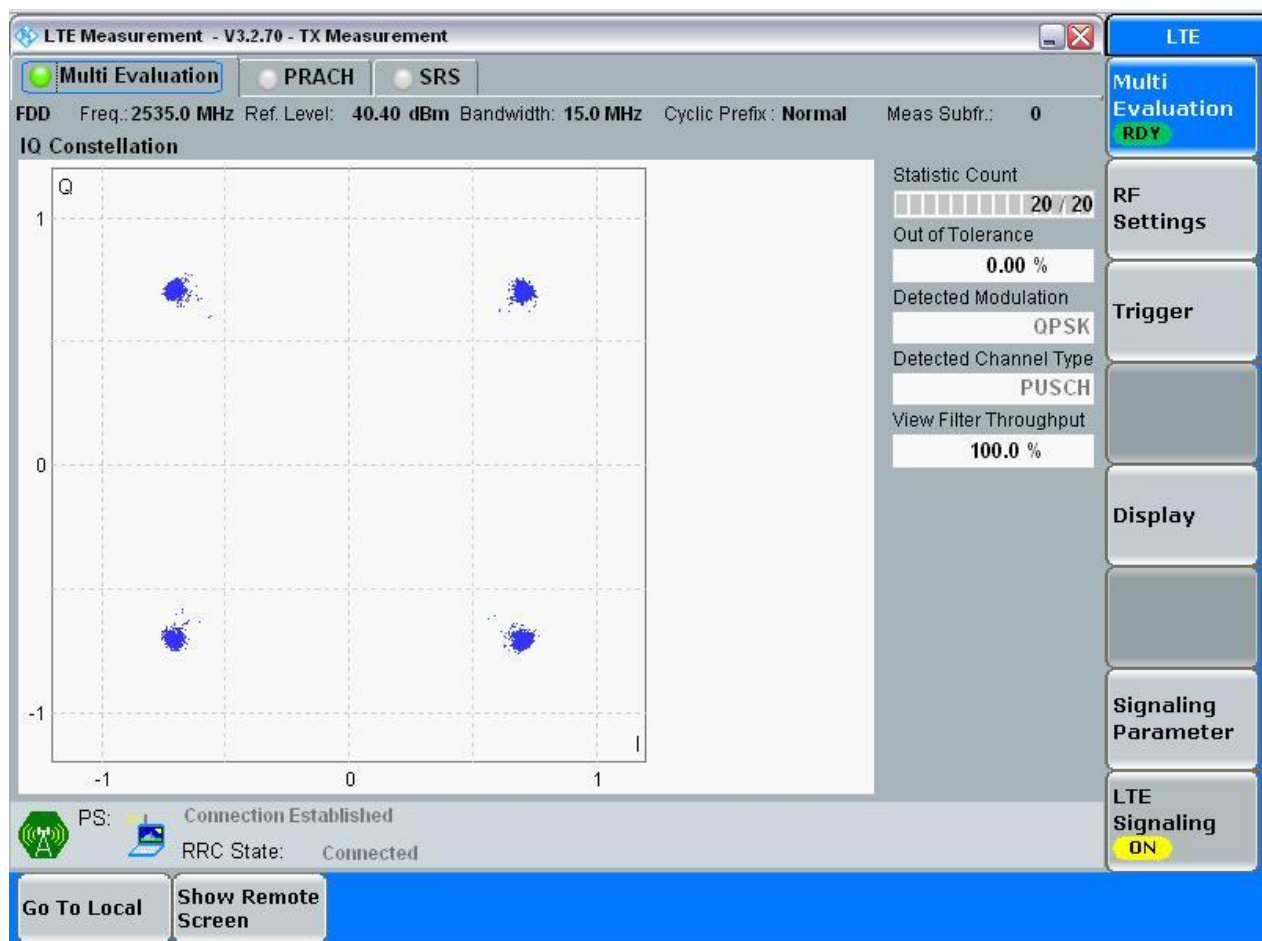
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

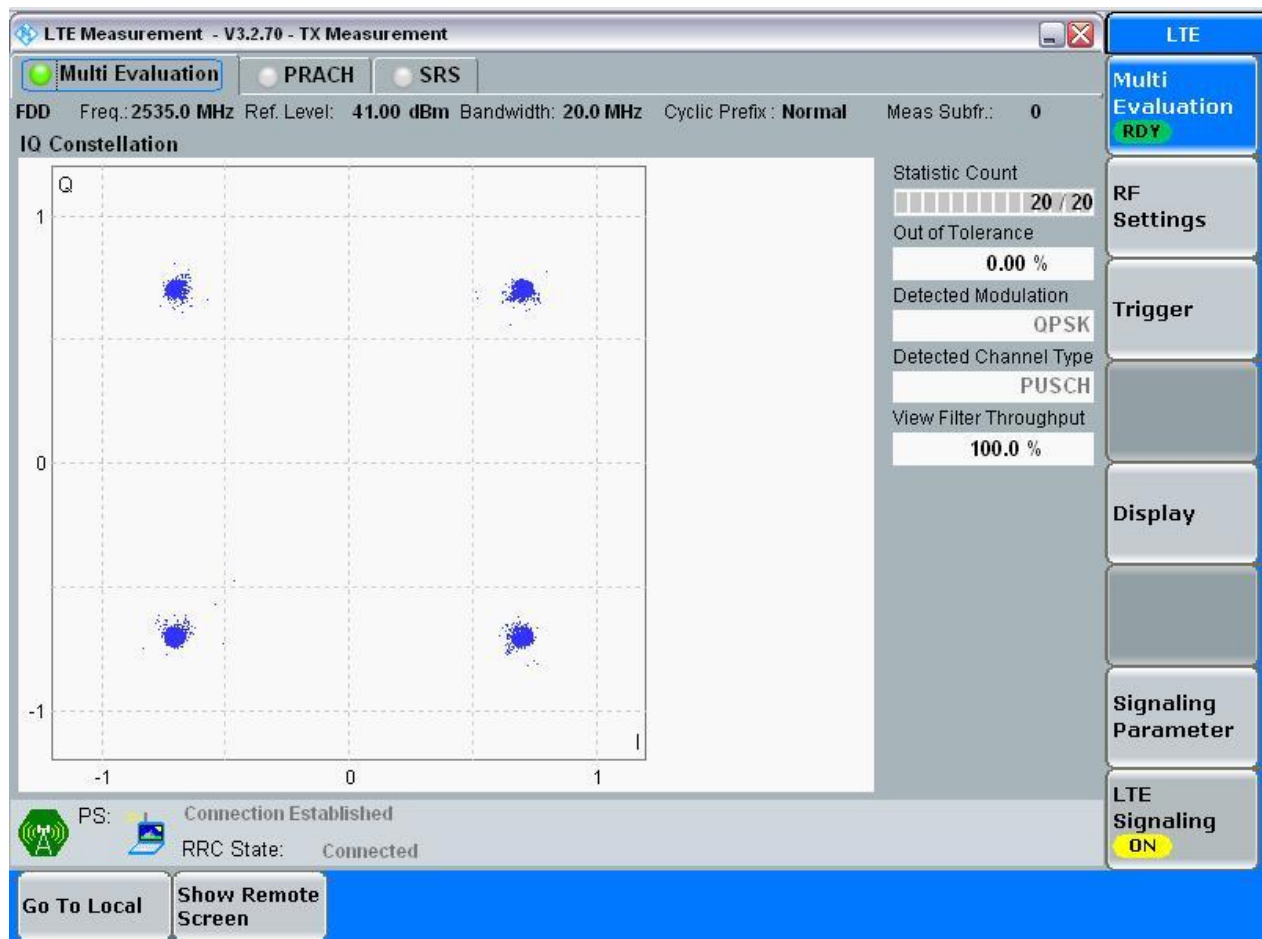
3.1.1.1.3.1.1 Test RB = RB75#0



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

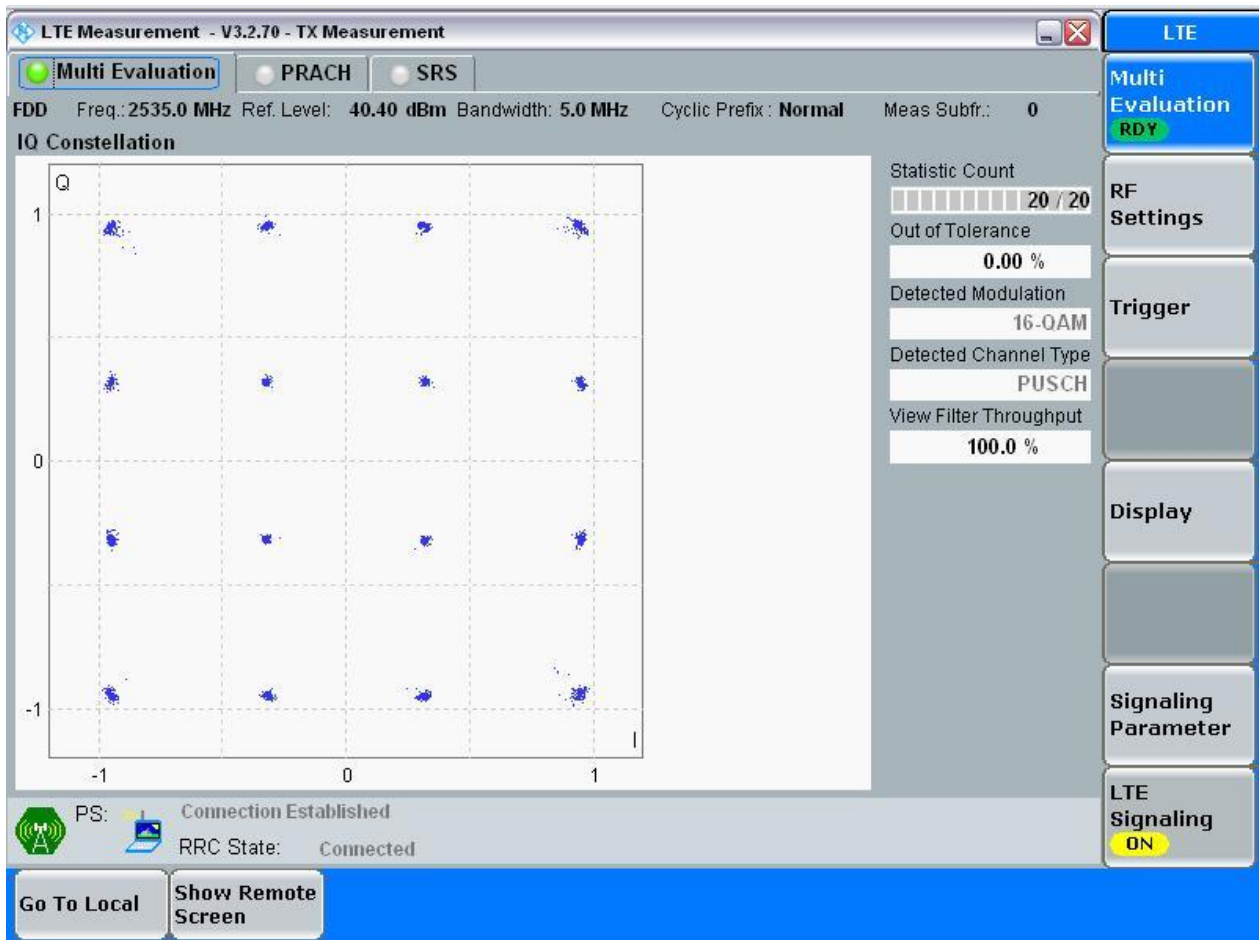


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

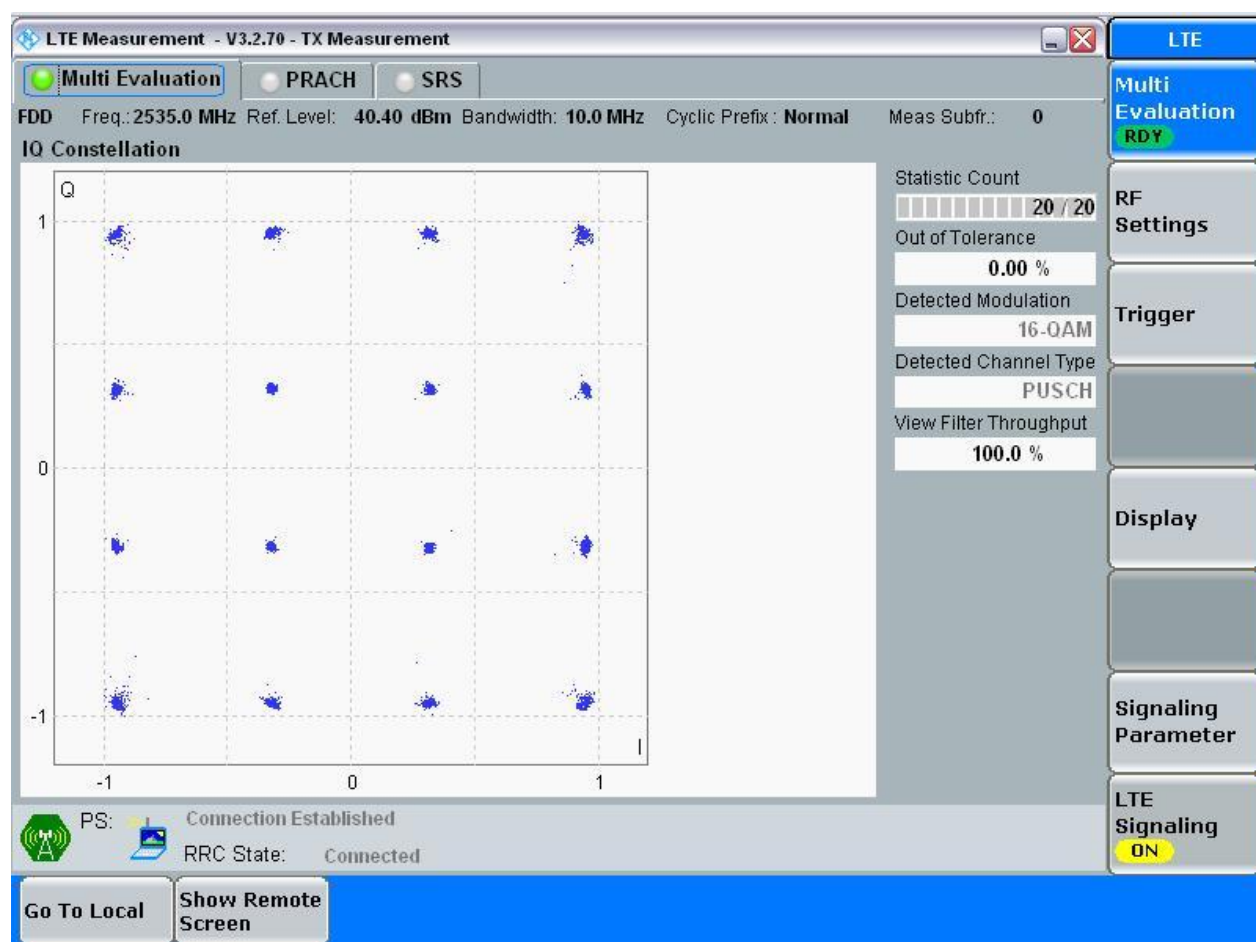
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

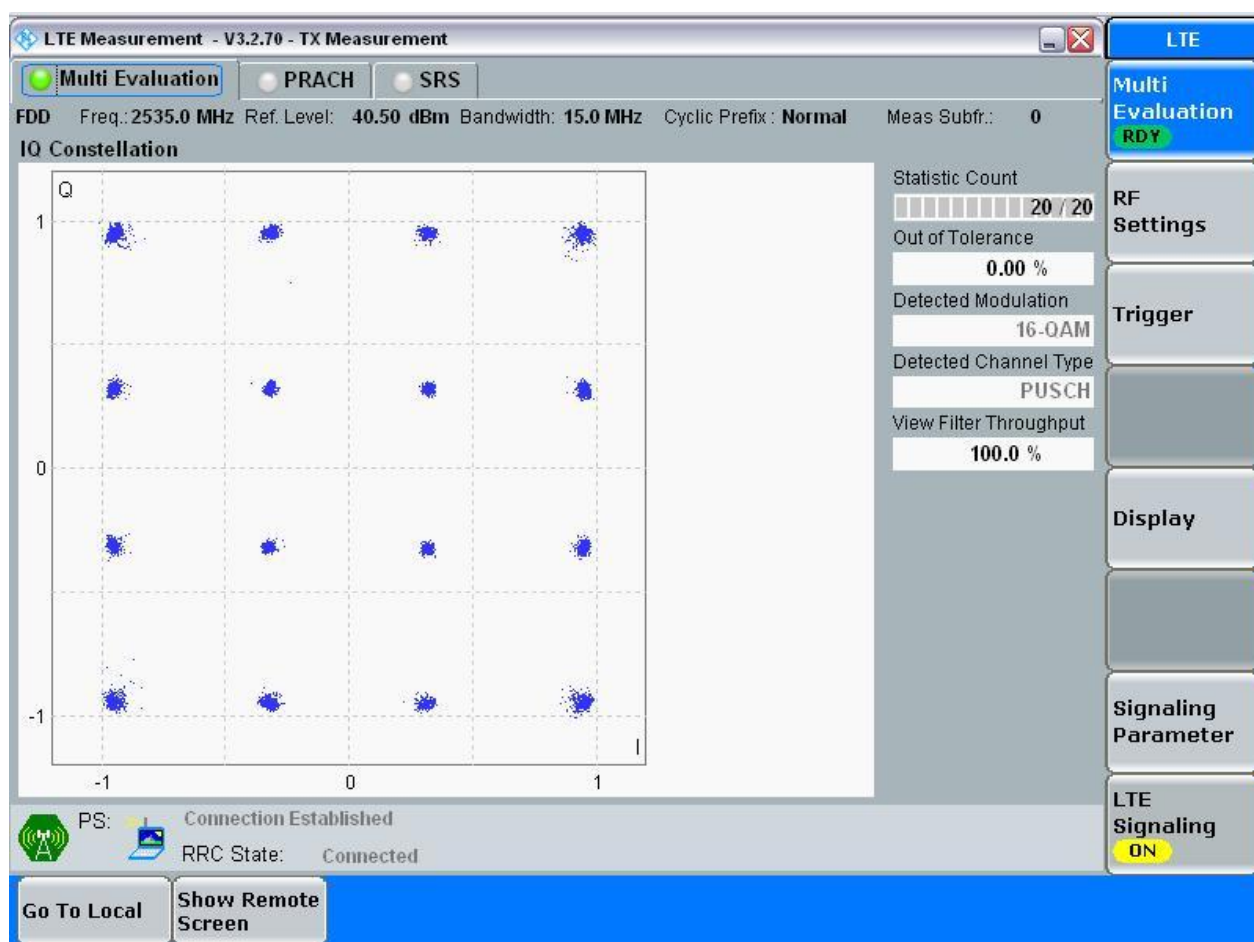
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

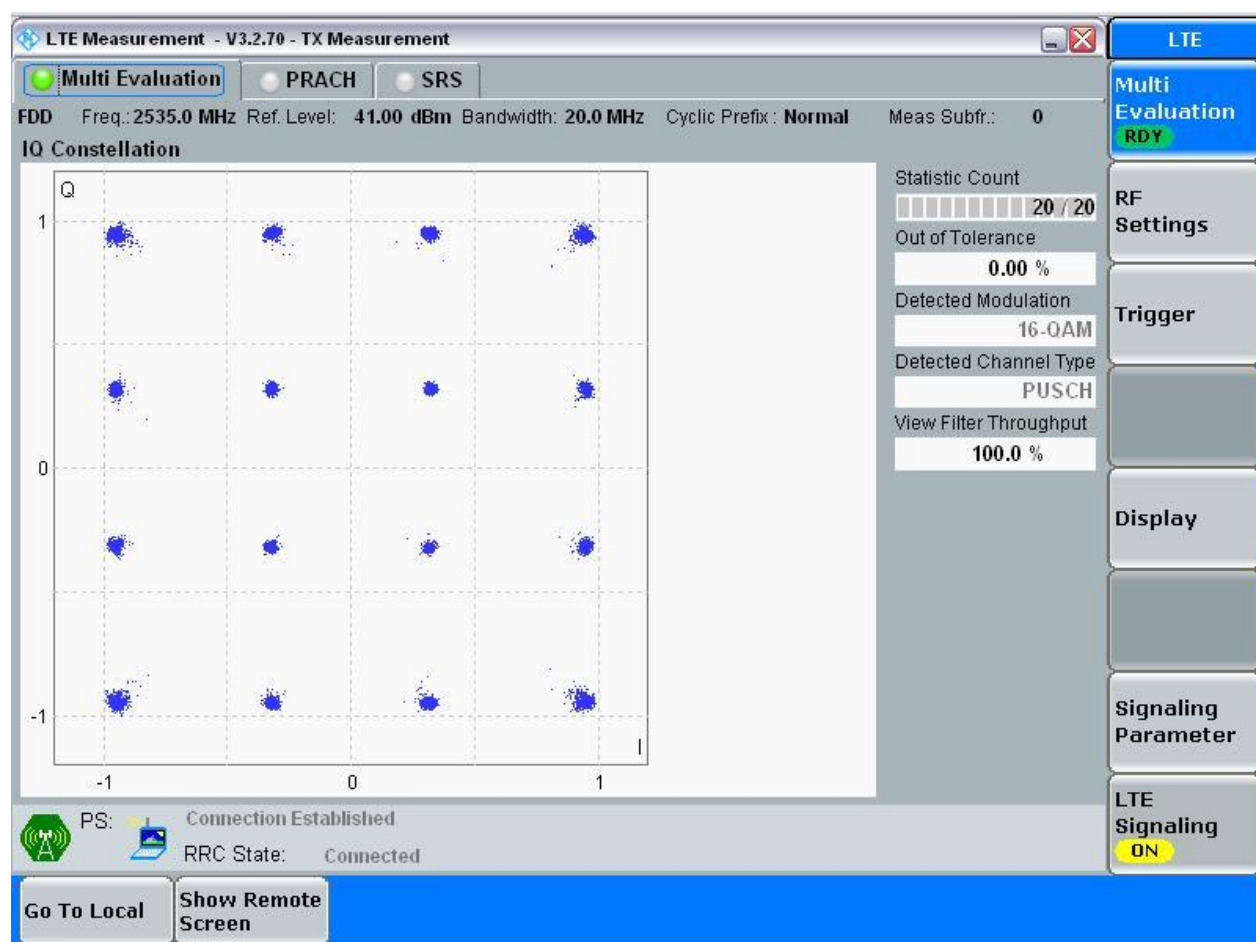
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.92	Pass
			MCH	RB25#0	4.51	4.87	Pass
			HCH	RB25#0	4.51	4.89	Pass
		10	LCH	RB50#0	9.00	9.81	Pass
			MCH	RB50#0	8.99	9.64	Pass
			HCH	RB50#0	8.99	9.61	Pass
		15	LCH	RB75#0	13.52	15.84	Pass
			MCH	RB75#0	13.49	14.32	Pass
			HCH	RB75#0	13.52	15.72	Pass
		20	LCH	RB100#0	18.00	19.11	Pass
			MCH	RB100#0	17.94	18.99	Pass
			HCH	RB100#0	18.06	20.28	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.89	Pass
			MCH	RB25#0	4.51	4.88	Pass
			HCH	RB25#0	4.52	4.90	Pass
		10	LCH	RB50#0	8.99	9.64	Pass
			MCH	RB50#0	8.98	9.62	Pass
			HCH	RB50#0	9.00	9.60	Pass
		15	LCH	RB75#0	13.49	14.37	Pass
			MCH	RB75#0	13.47	14.28	Pass
			HCH	RB75#0	13.50	14.35	Pass
		20	LCH	RB100#0	17.98	19.06	Pass
			MCH	RB100#0	17.94	18.99	Pass
			HCH	RB100#0	18.02	19.04	Pass



Part II - Test Plots

4.2 For LTE

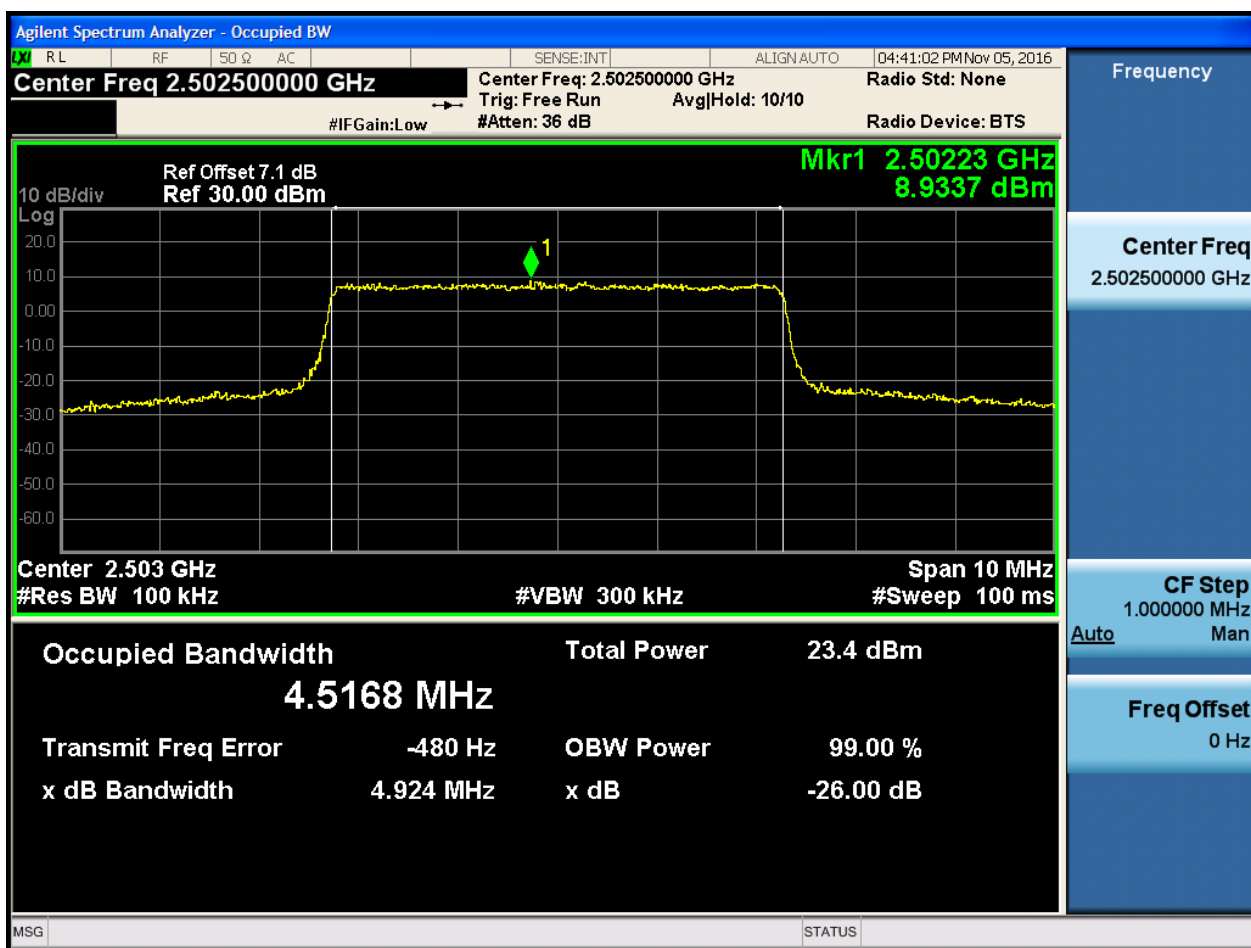
4.2.1 Test Band = BAND7

4.2.1.1 Test Mode = LTE/TM1

4.2.1.1.1 Test Bandwidth = 5

4.2.1.1.1.1 Test Channel = LCH

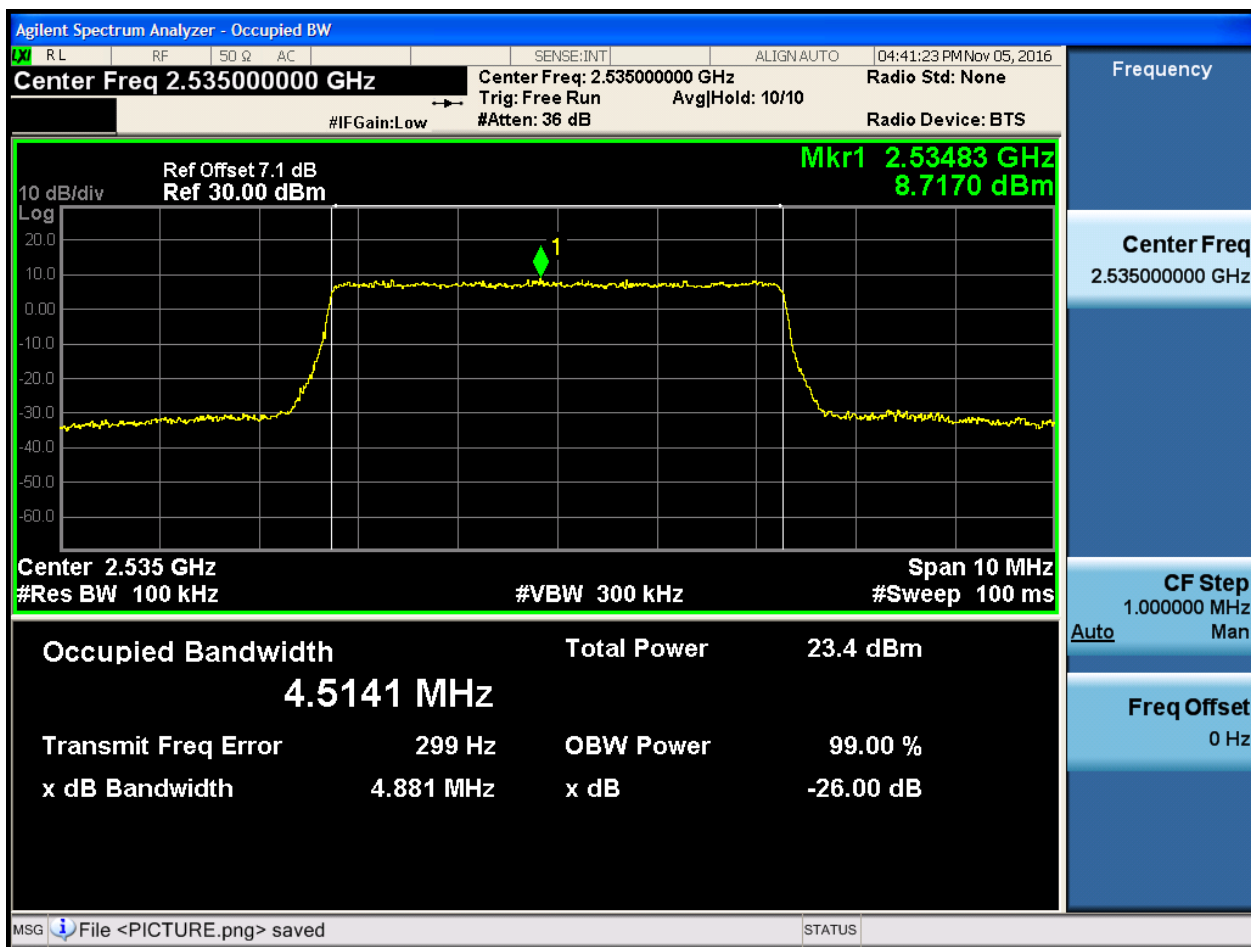
4.2.1.1.1.1.1 Test RB = RB25#0





4.2.1.1.1.2 Test Channel = MCH

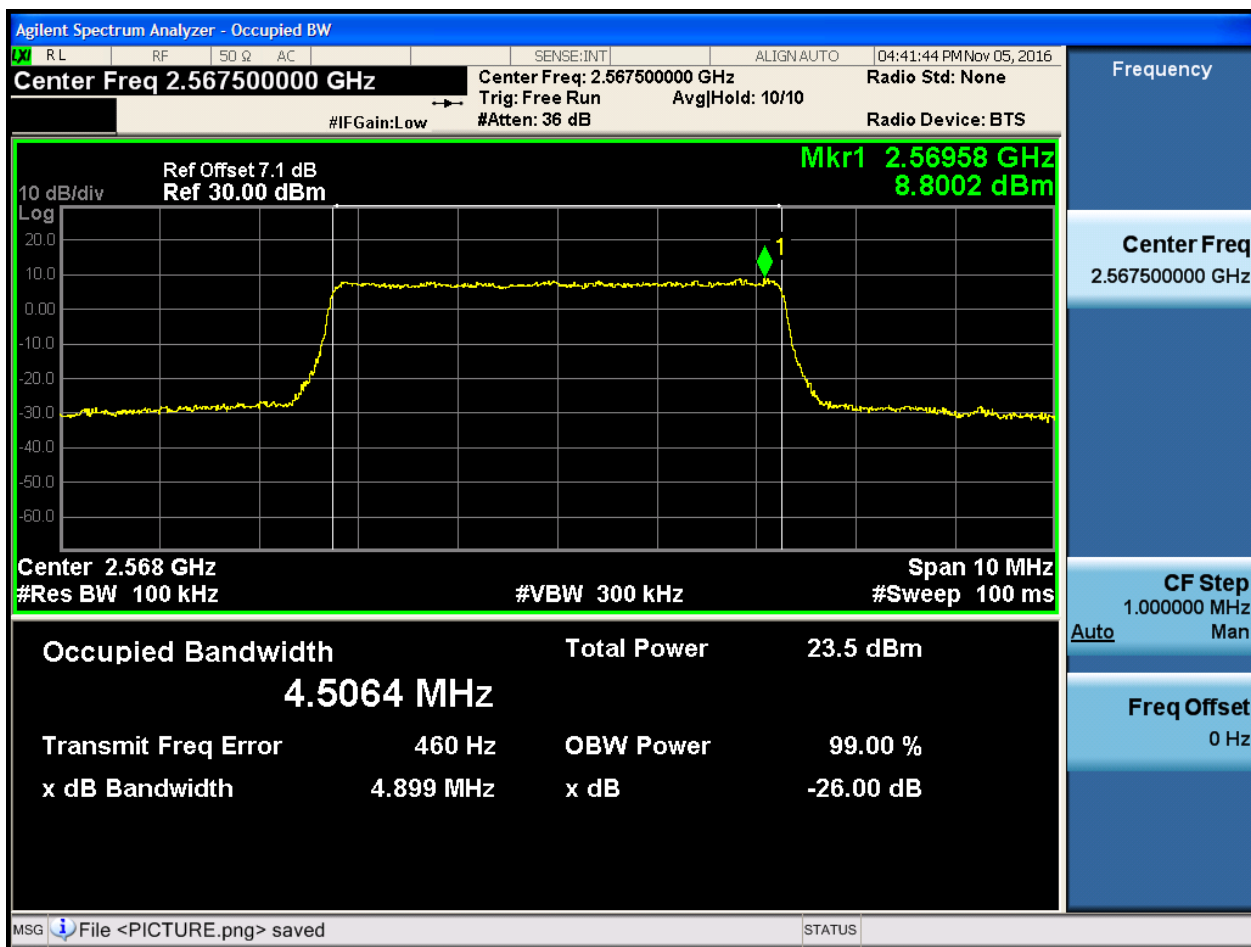
4.2.1.1.1.2.1 Test RB = RB25#0





4.2.1.1.1.3 Test Channel = HCH

4.2.1.1.1.3.1 Test RB = RB25#0

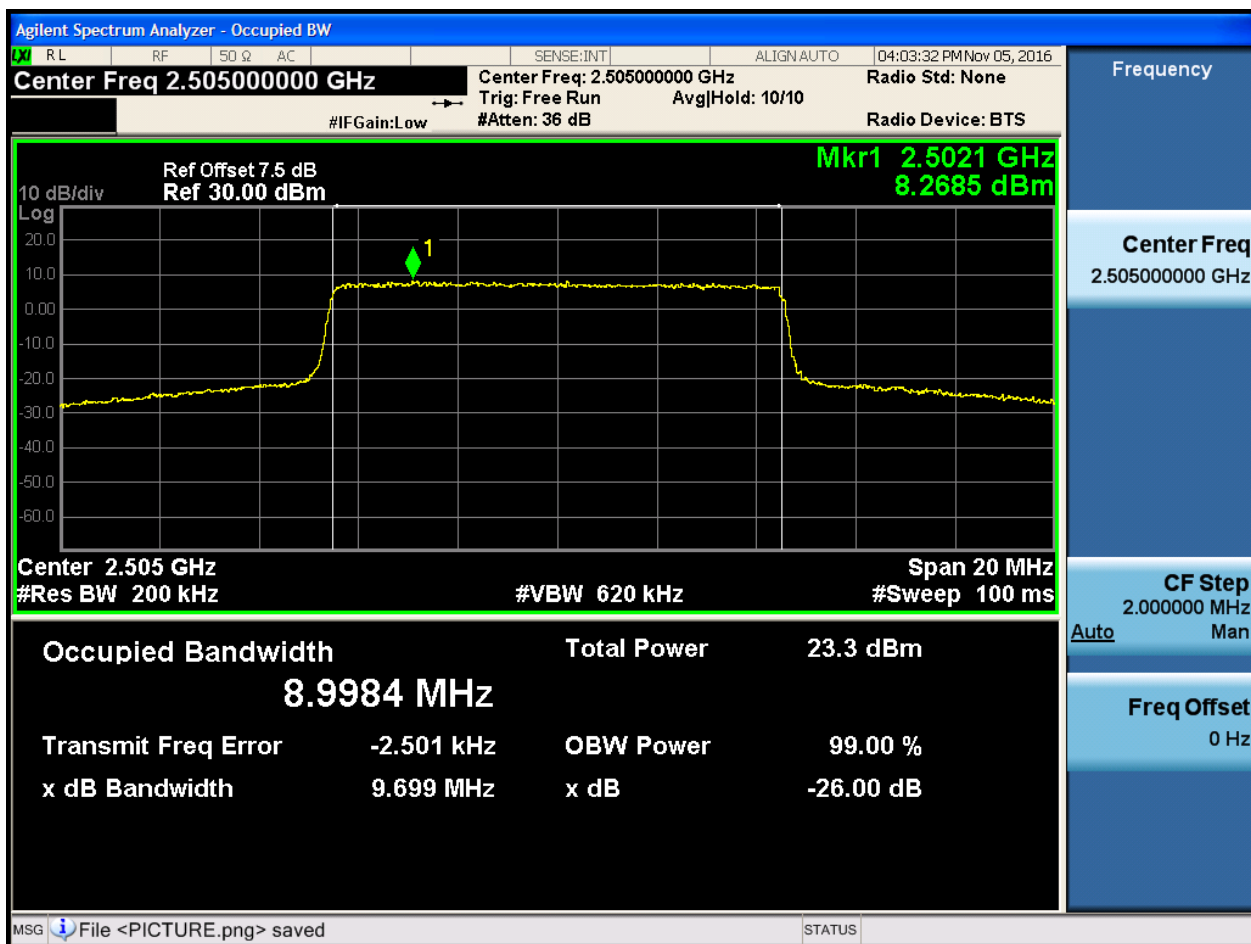




4.2.1.1.2 Test Bandwidth = 10

4.2.1.1.2.1 Test Channel = LCH

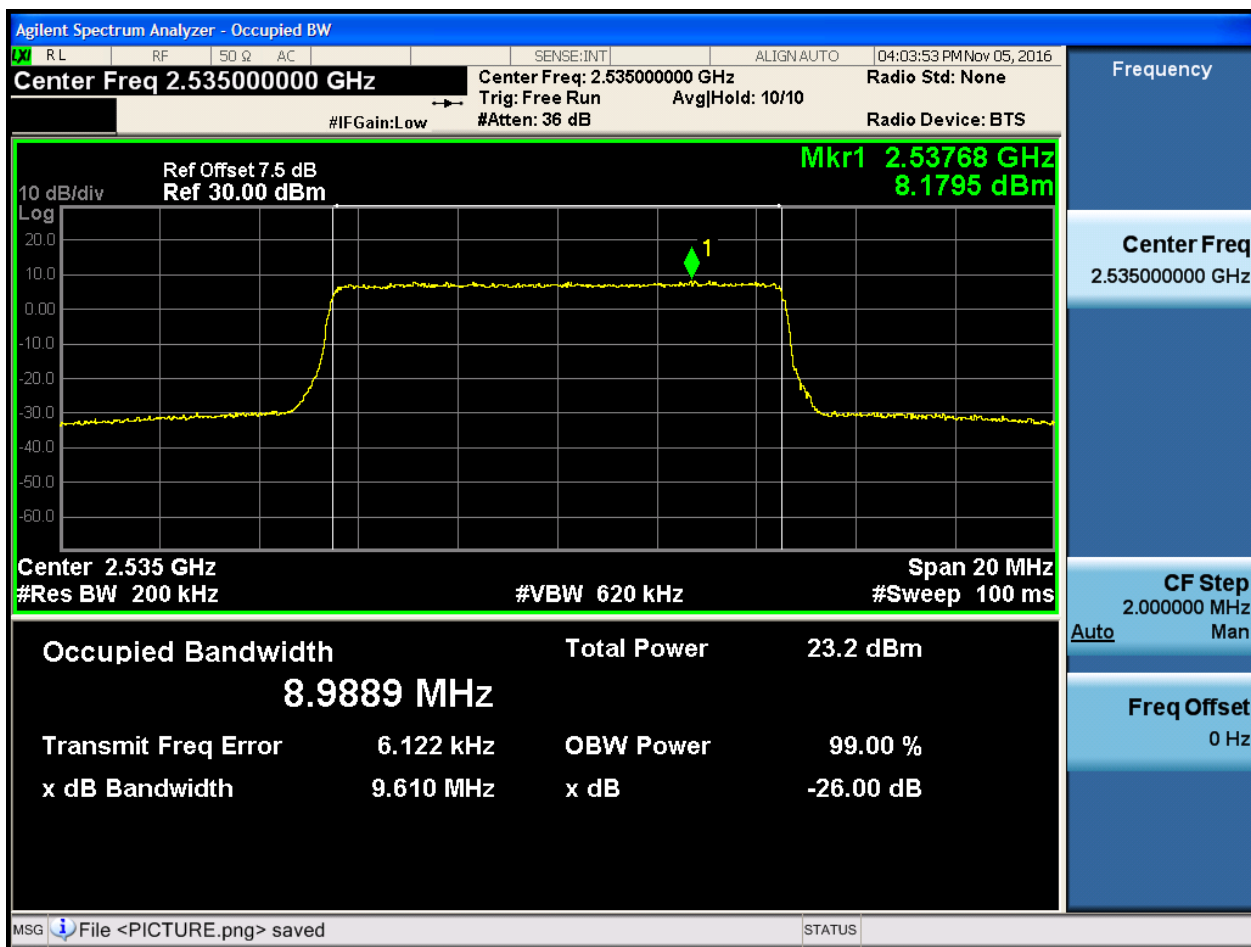
4.2.1.1.2.1.1 Test RB = RB50#0





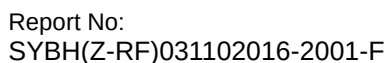
4.2.1.1.2.2 Test Channel = MCH

4.2.1.1.2.2.1 Test RB = RB50#0





4.2.1.1.2.3.1 Test RB = RB50#0

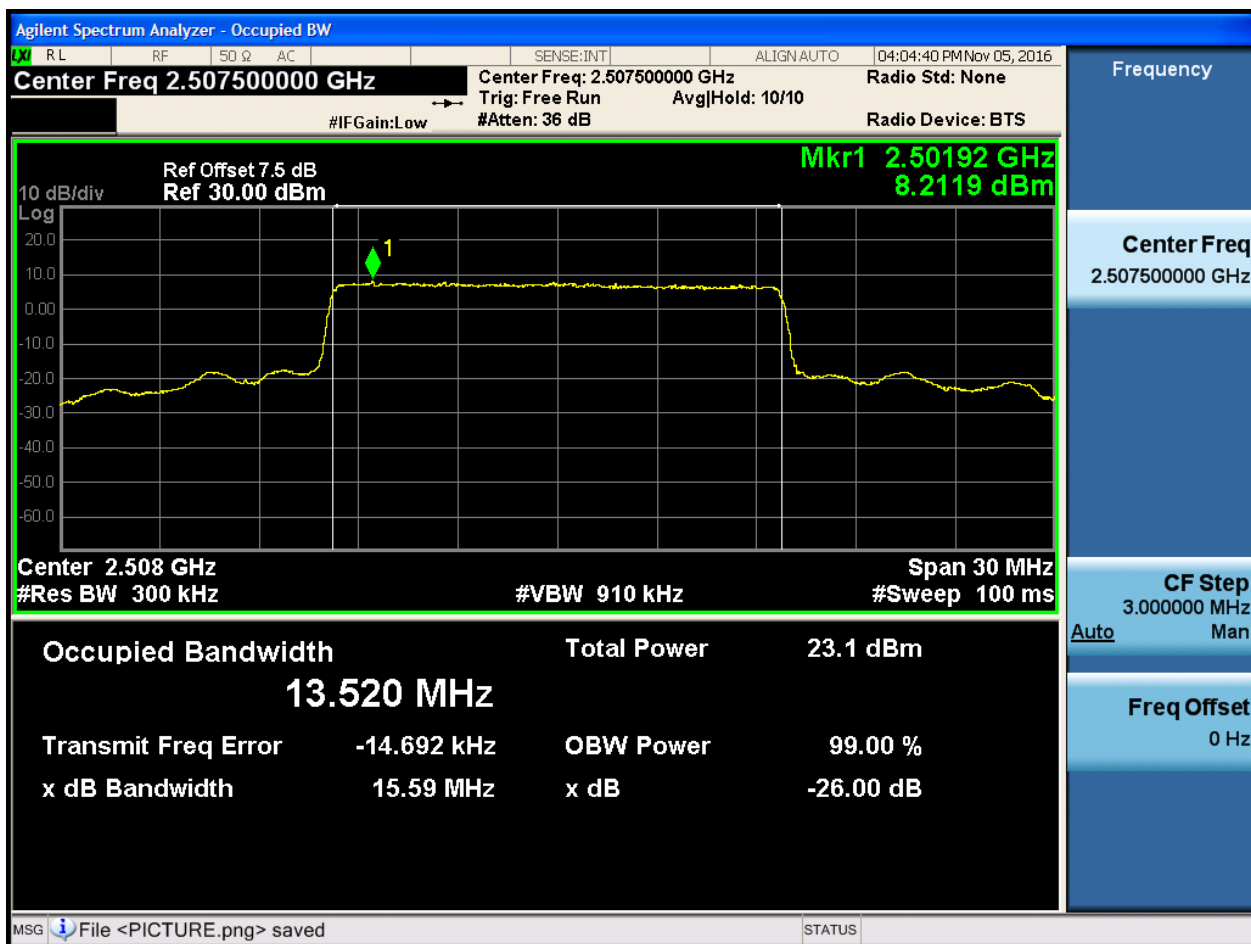




4.2.1.1.3 Test Bandwidth = 15

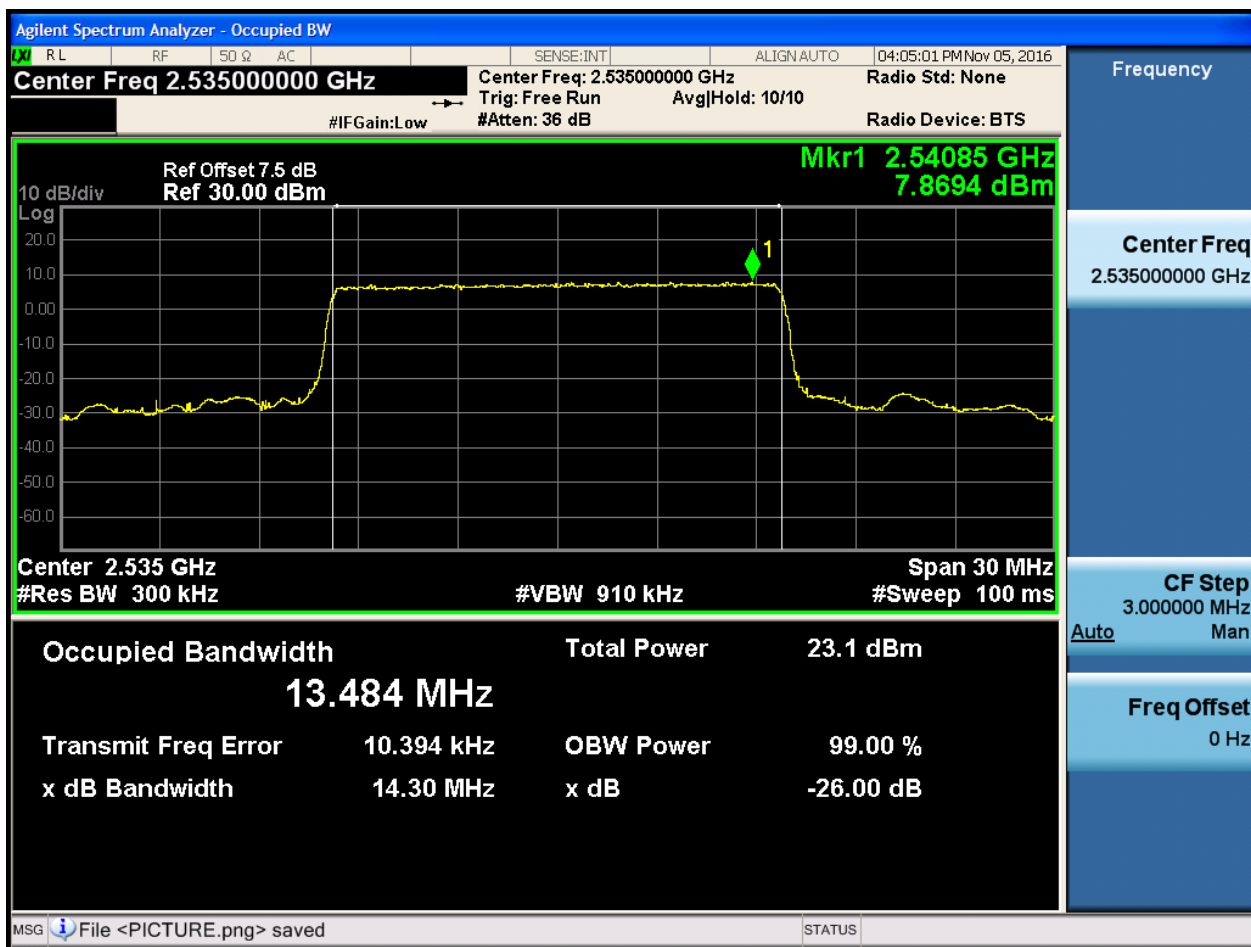
4.2.1.1.3.1 Test Channel = LCH

4.2.1.1.3.1.1 Test RB = RB75#0



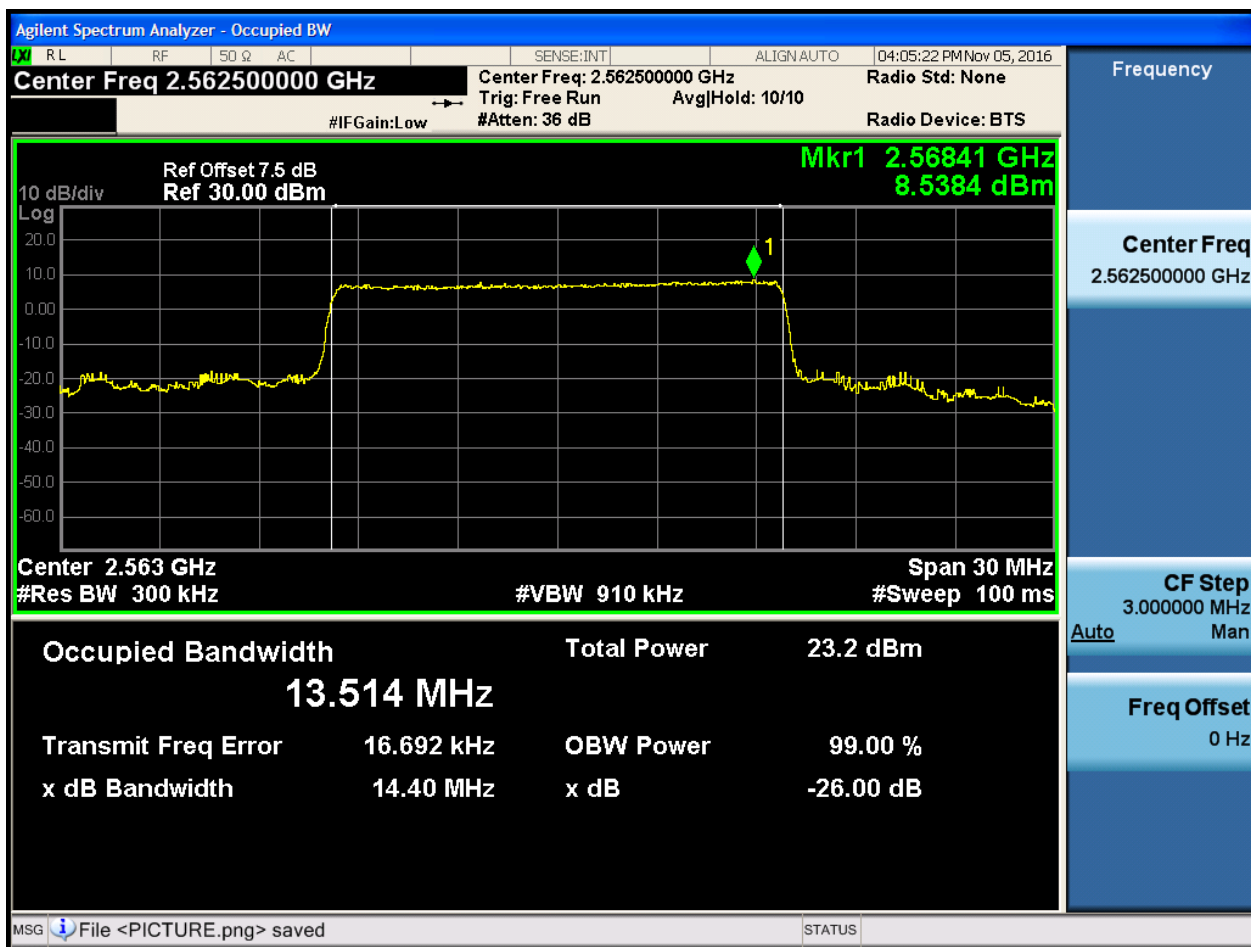
4.2.1.1.3.2 Test Channel = MCH

4.2.1.1.3.2.1 Test RB = RB75#0



4.2.1.1.3.3 Test Channel = HCH

4.2.1.1.3.3.1 Test RB = RB75#0

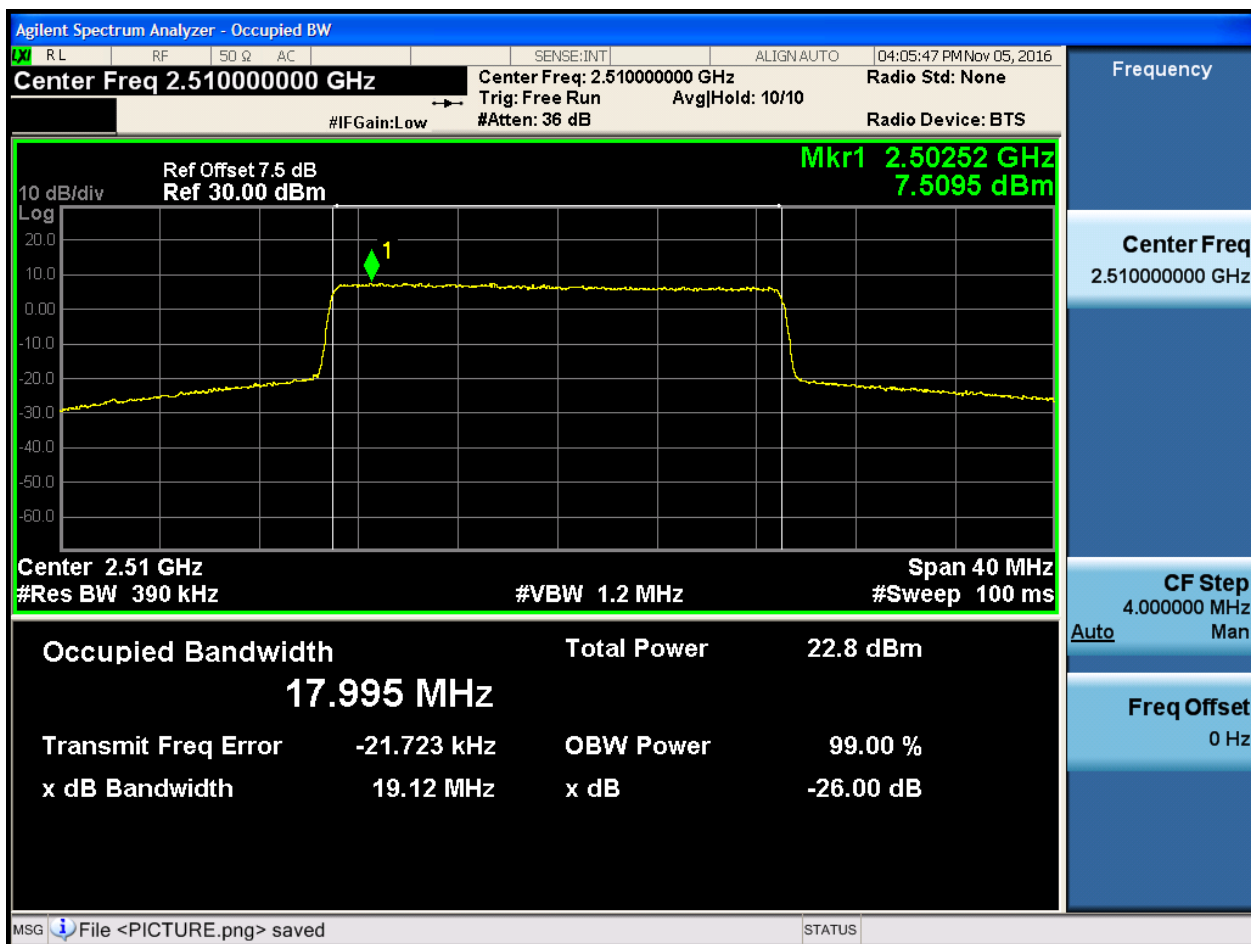




4.2.1.1.4 Test Bandwidth = 20

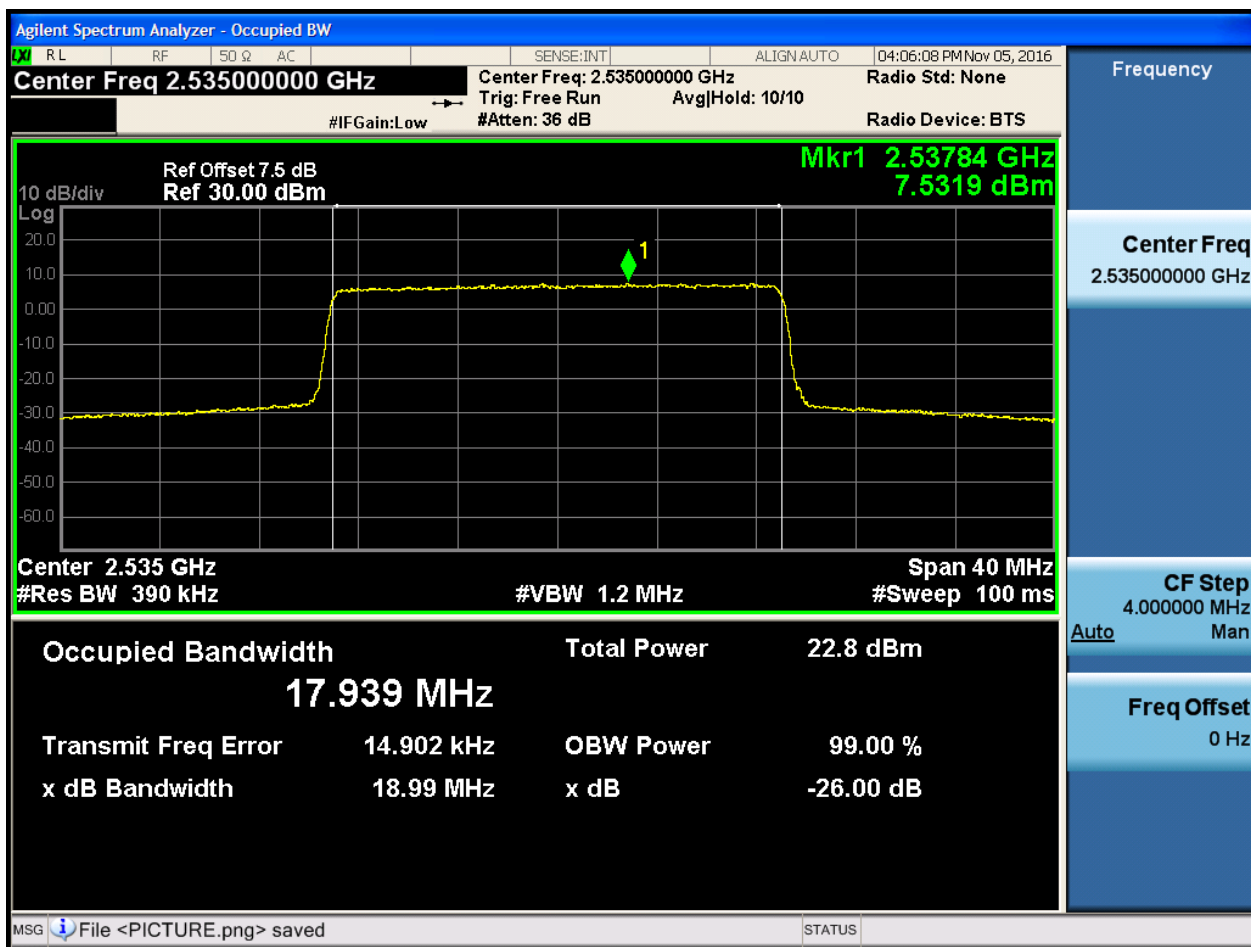
4.2.1.1.4.1 Test Channel = LCH

4.2.1.1.4.1.1 Test RB = RB100#0



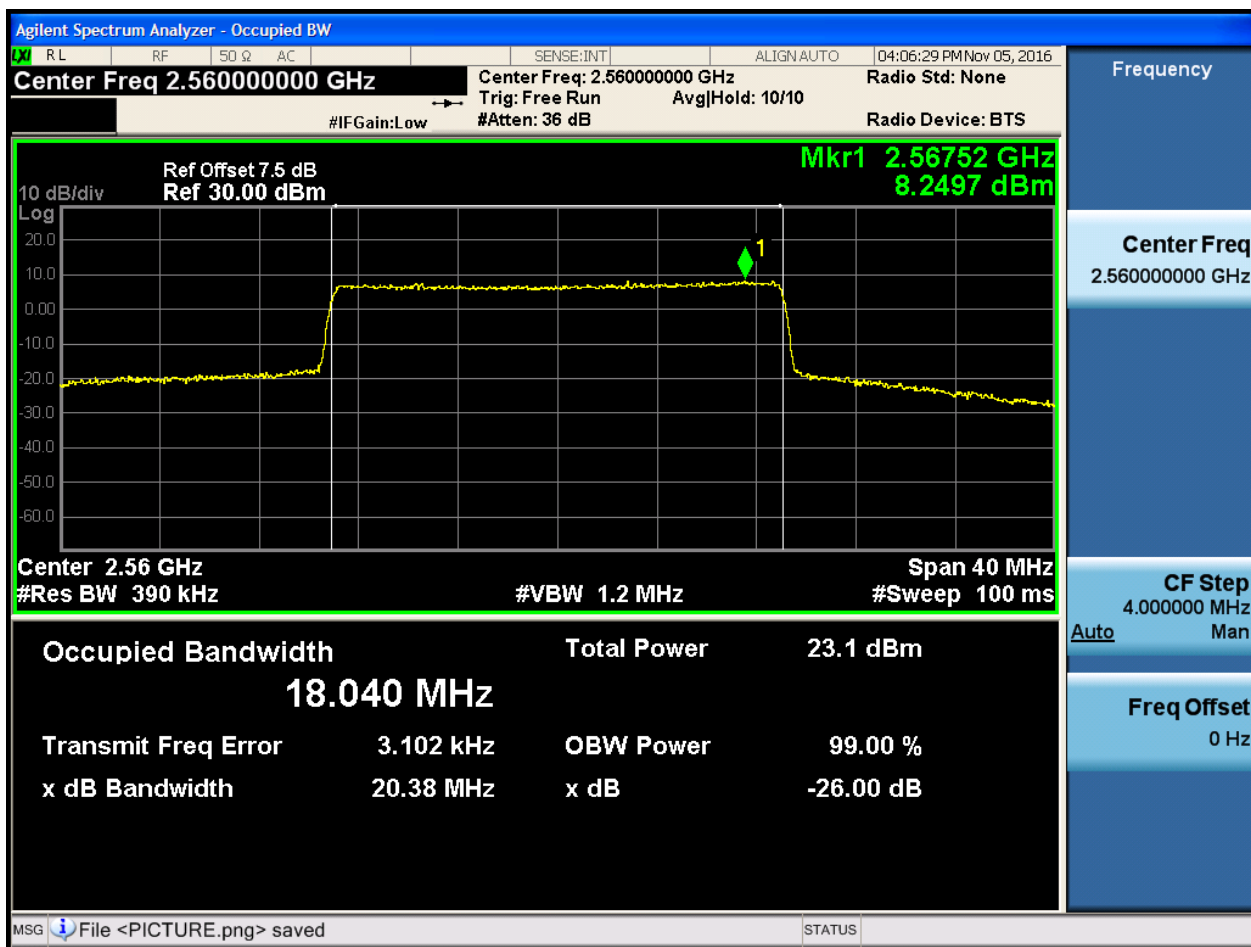
4.2.1.1.4.2 Test Channel = MCH

4.2.1.1.4.2.1 Test RB = RB100#0



4.2.1.1.4.3 Test Channel = HCH

4.2.1.1.4.3.1 Test RB = RB100#0



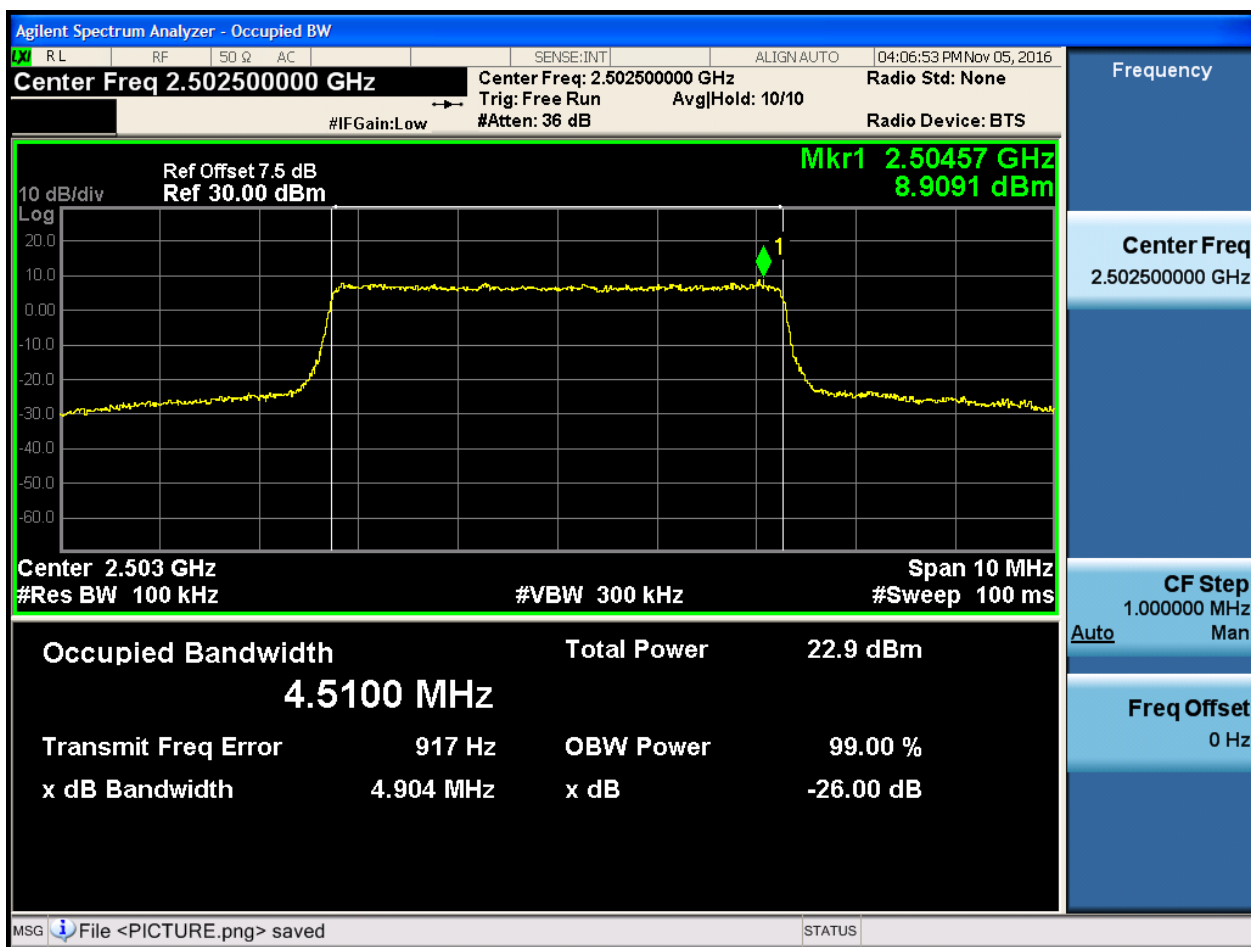


4.2.1.2 Test Mode = LTE/TM2

4.2.1.2.1 Test Bandwidth = 5

4.2.1.2.1.1 Test Channel = LCH

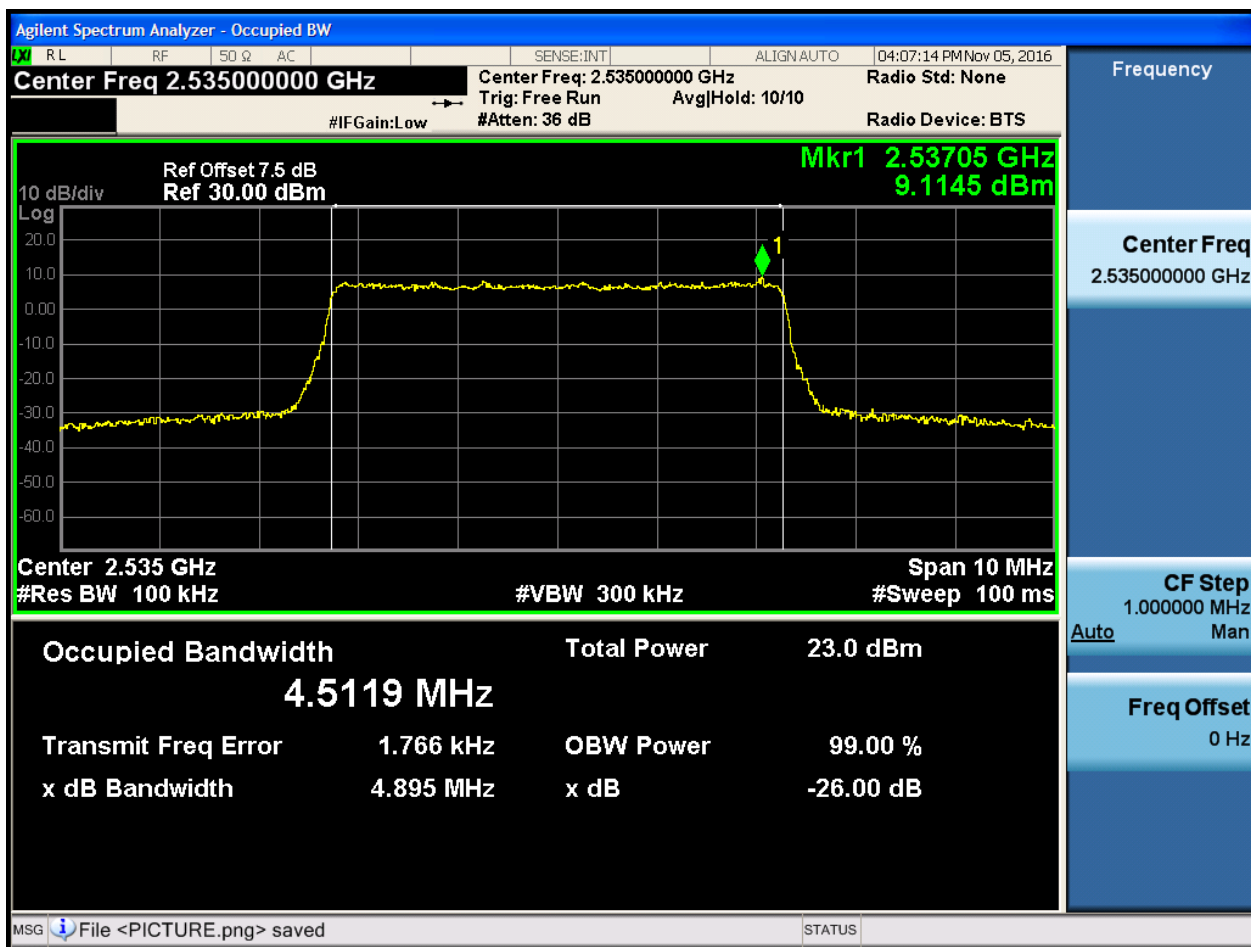
4.2.1.2.1.1.1 Test RB = RB25#0





4.2.1.2.1.2 Test Channel = MCH

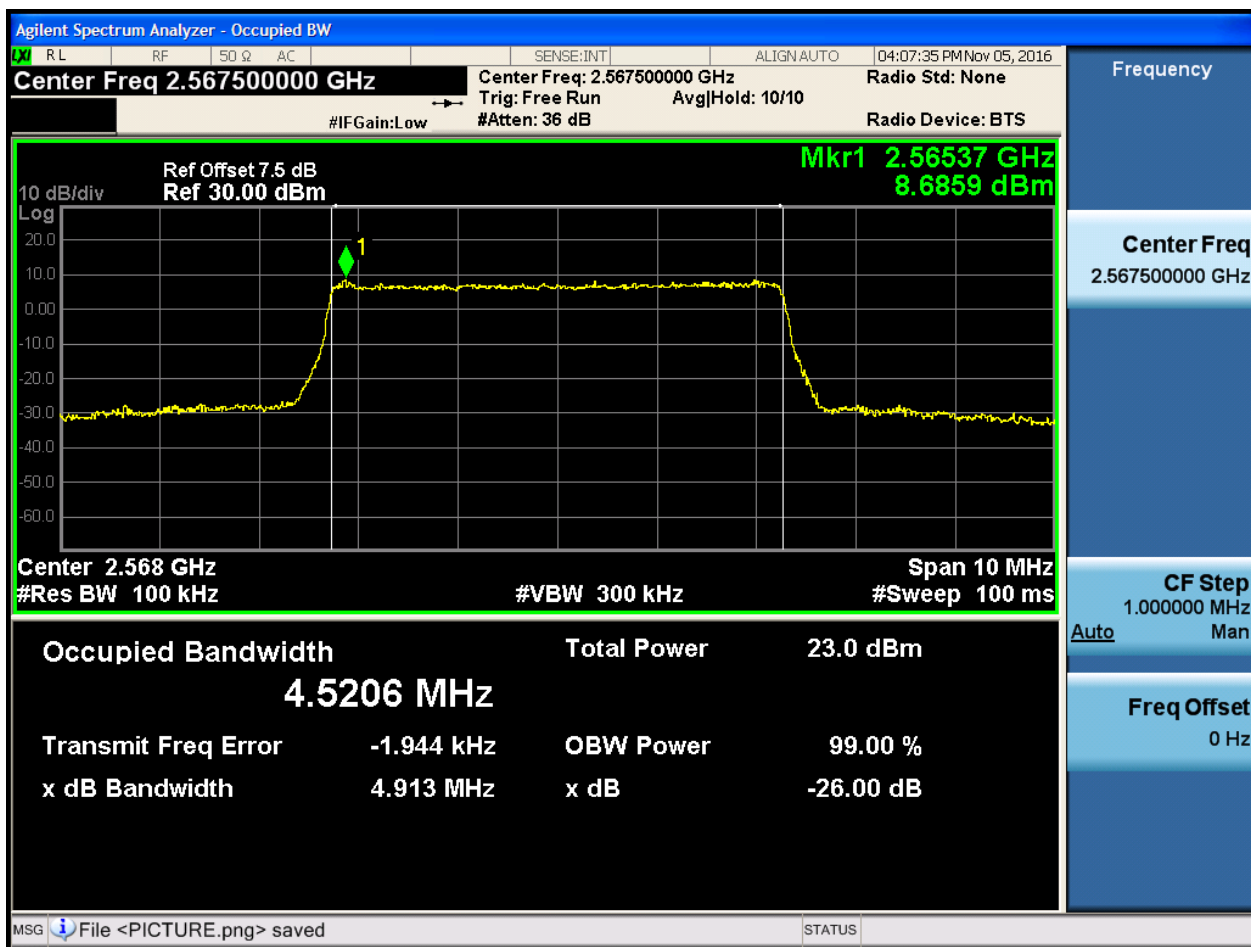
4.2.1.2.1.2.1 Test RB = RB25#0





4.2.1.2.1.3 Test Channel = HCH

4.2.1.2.1.3.1 Test RB = RB25#0

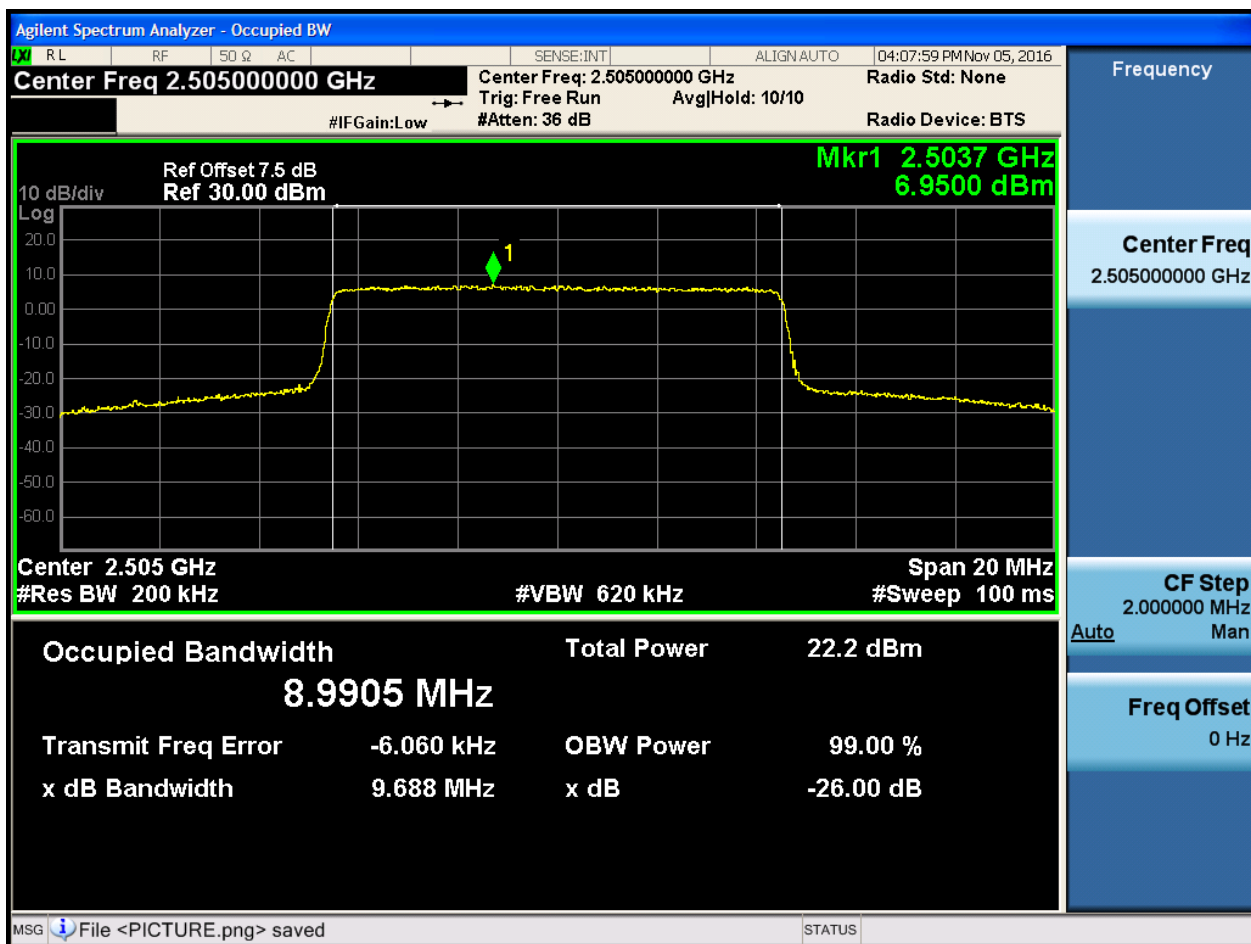




4.2.1.2.2 Test Bandwidth = 10

4.2.1.2.2.1 Test Channel = LCH

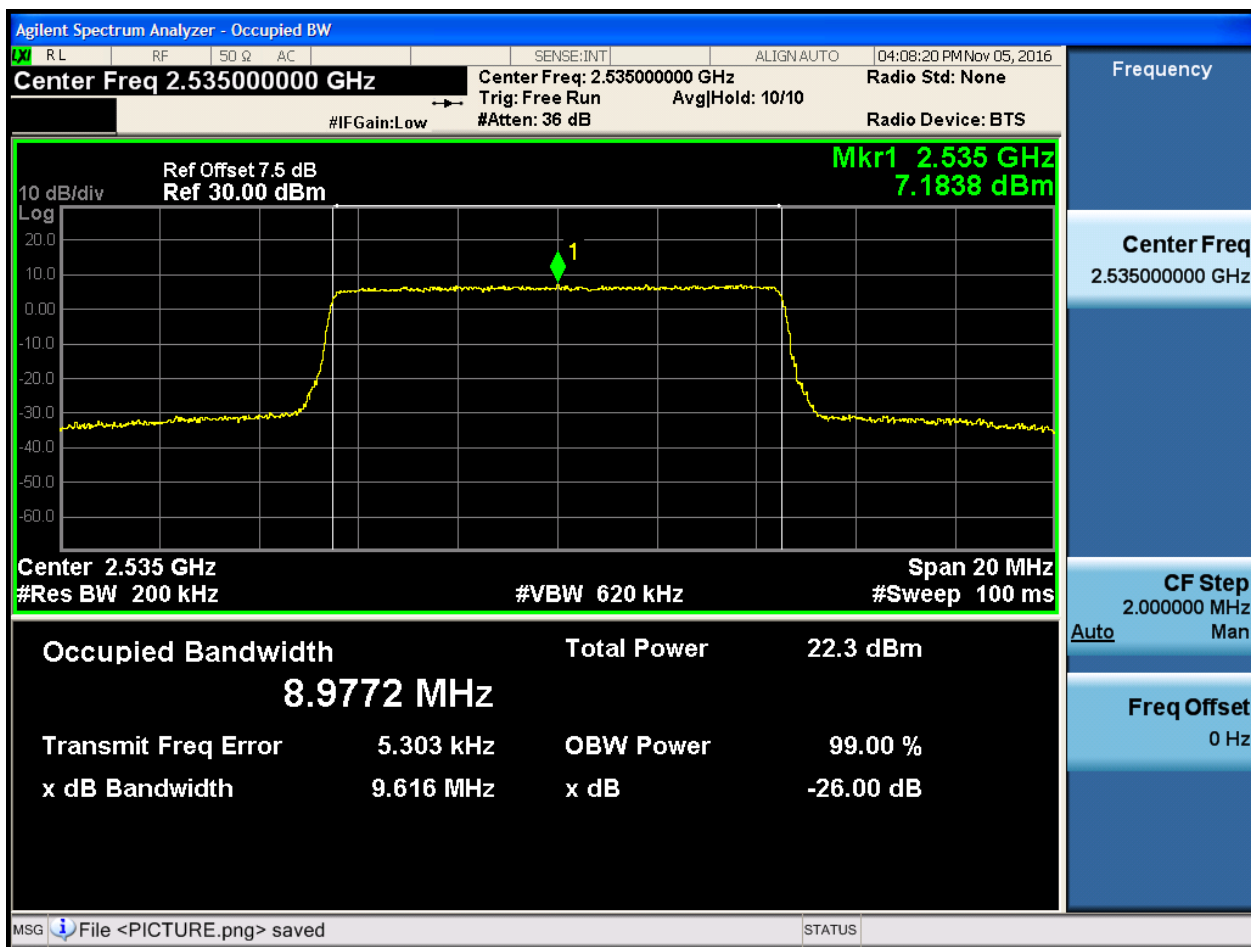
4.2.1.2.2.1.1 Test RB = RB50#0





4.2.1.2.2.2 Test Channel = MCH

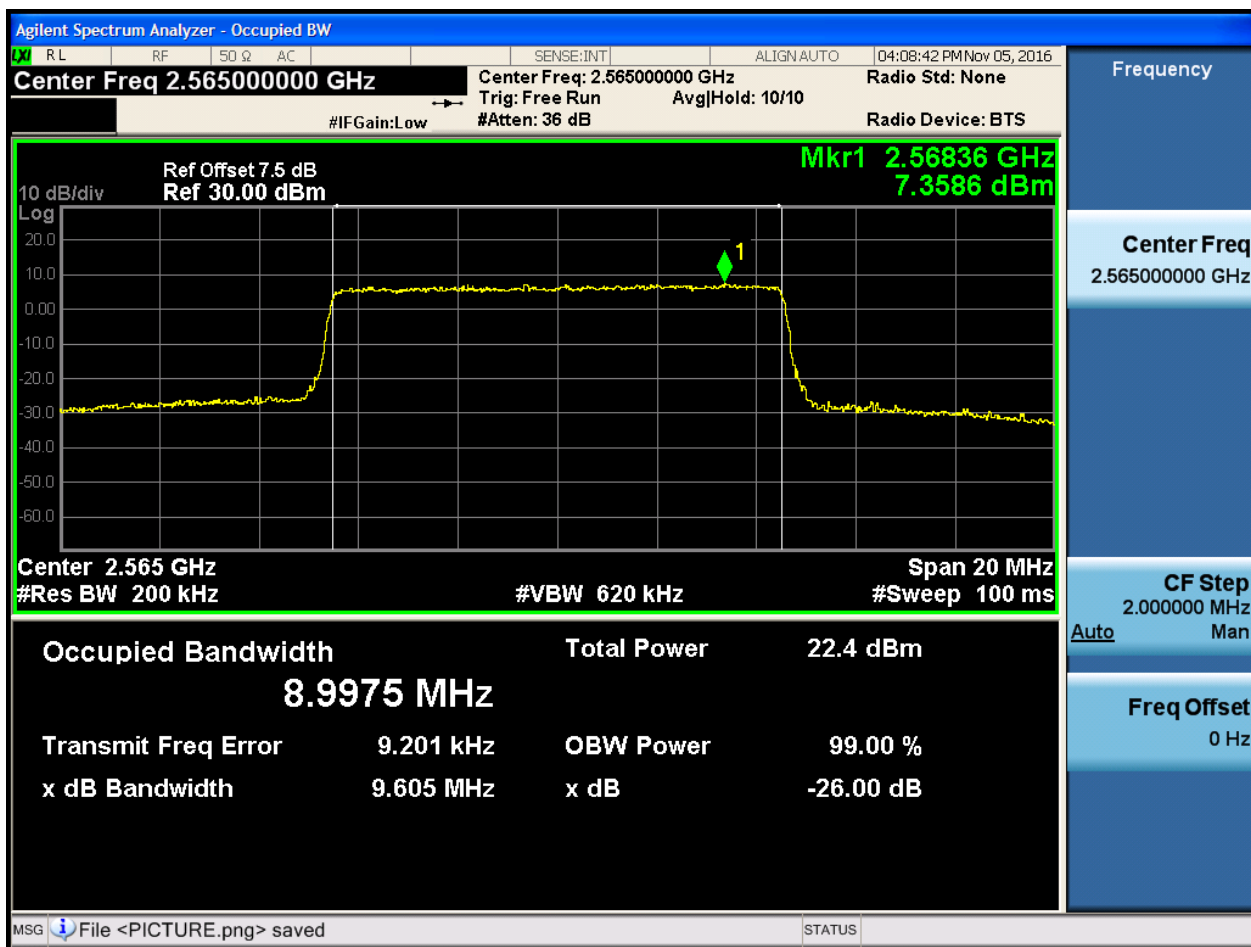
4.2.1.2.2.2.1 Test RB = RB50#0





4.2.1.2.2.3 Test Channel = HCH

4.2.1.2.2.3.1 Test RB = RB50#0

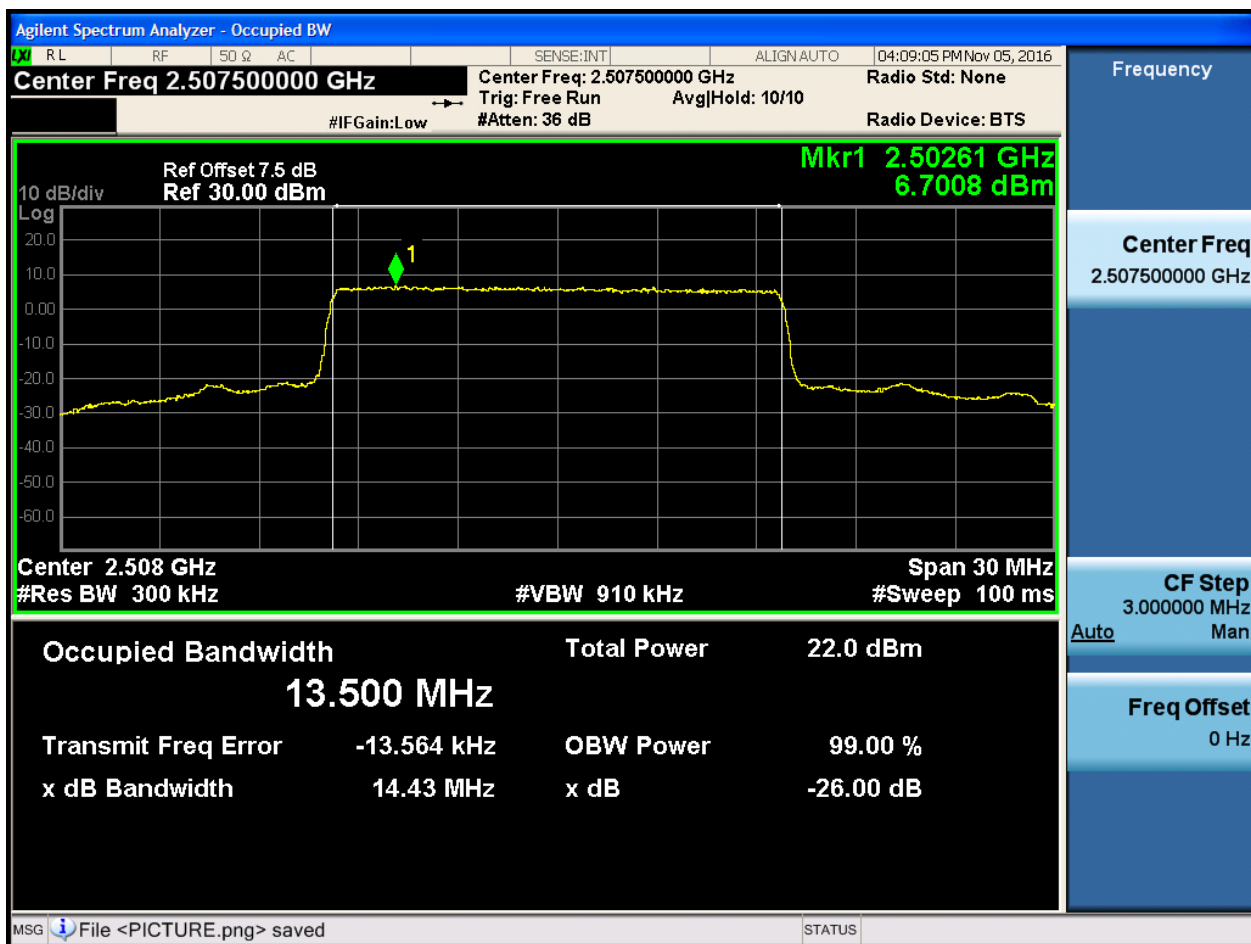




4.2.1.2.3 Test Bandwidth = 15

4.2.1.2.3.1 Test Channel = LCH

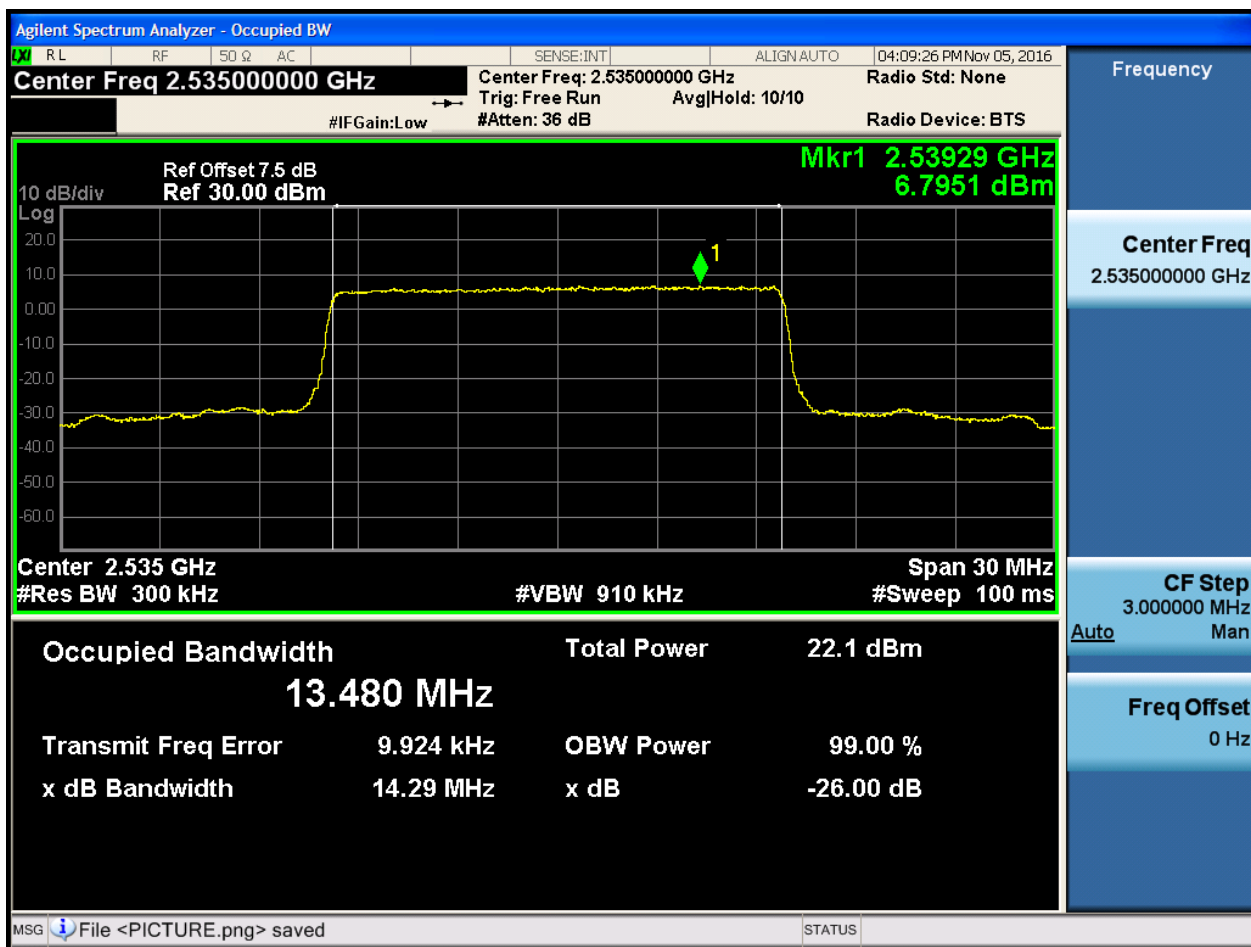
4.2.1.2.3.1.1 Test RB = RB75#0





4.2.1.2.3.2 Test Channel = MCH

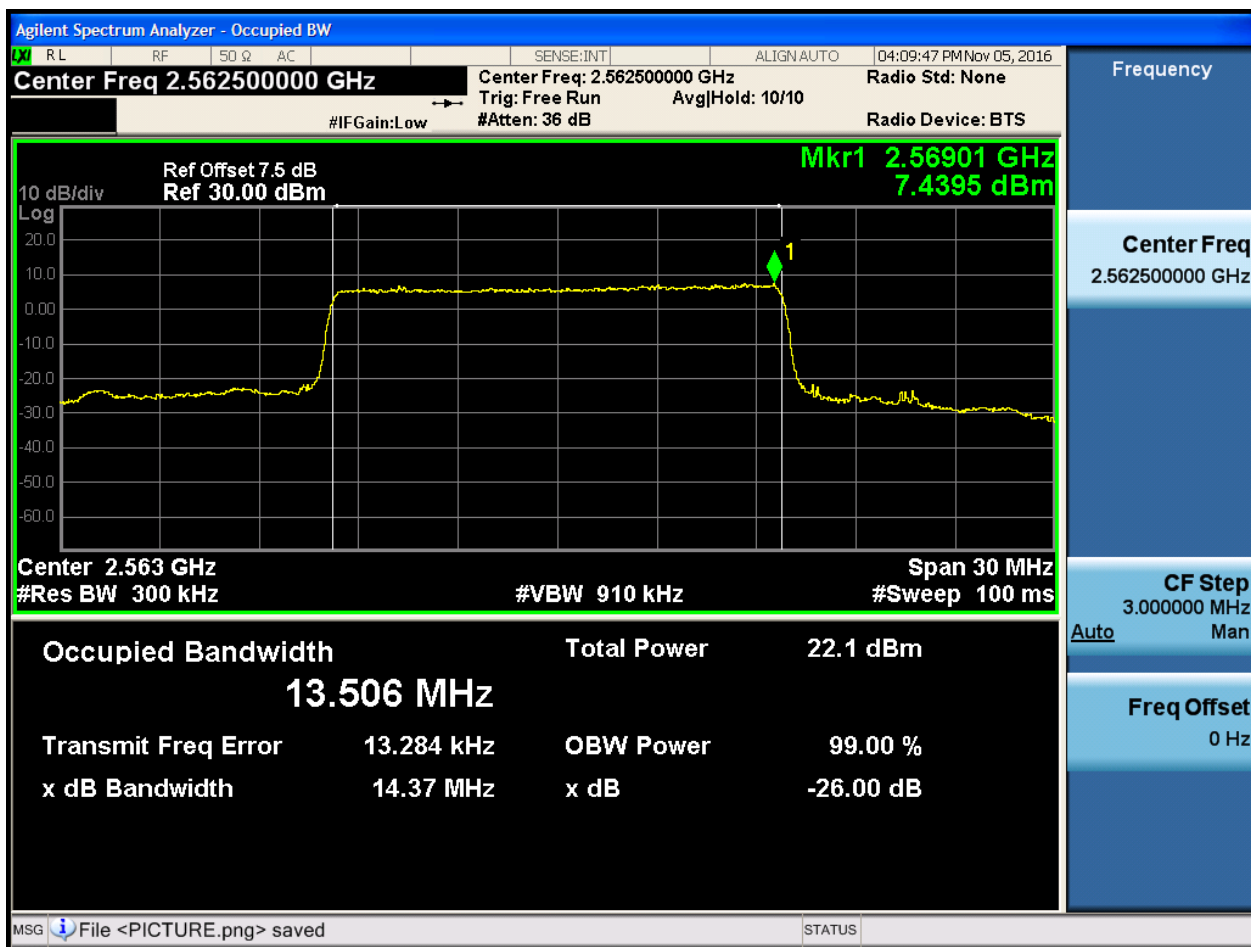
4.2.1.2.3.2.1 Test RB = RB75#0





4.2.1.2.3.3 Test Channel = HCH

4.2.1.2.3.3.1 Test RB = RB75#0

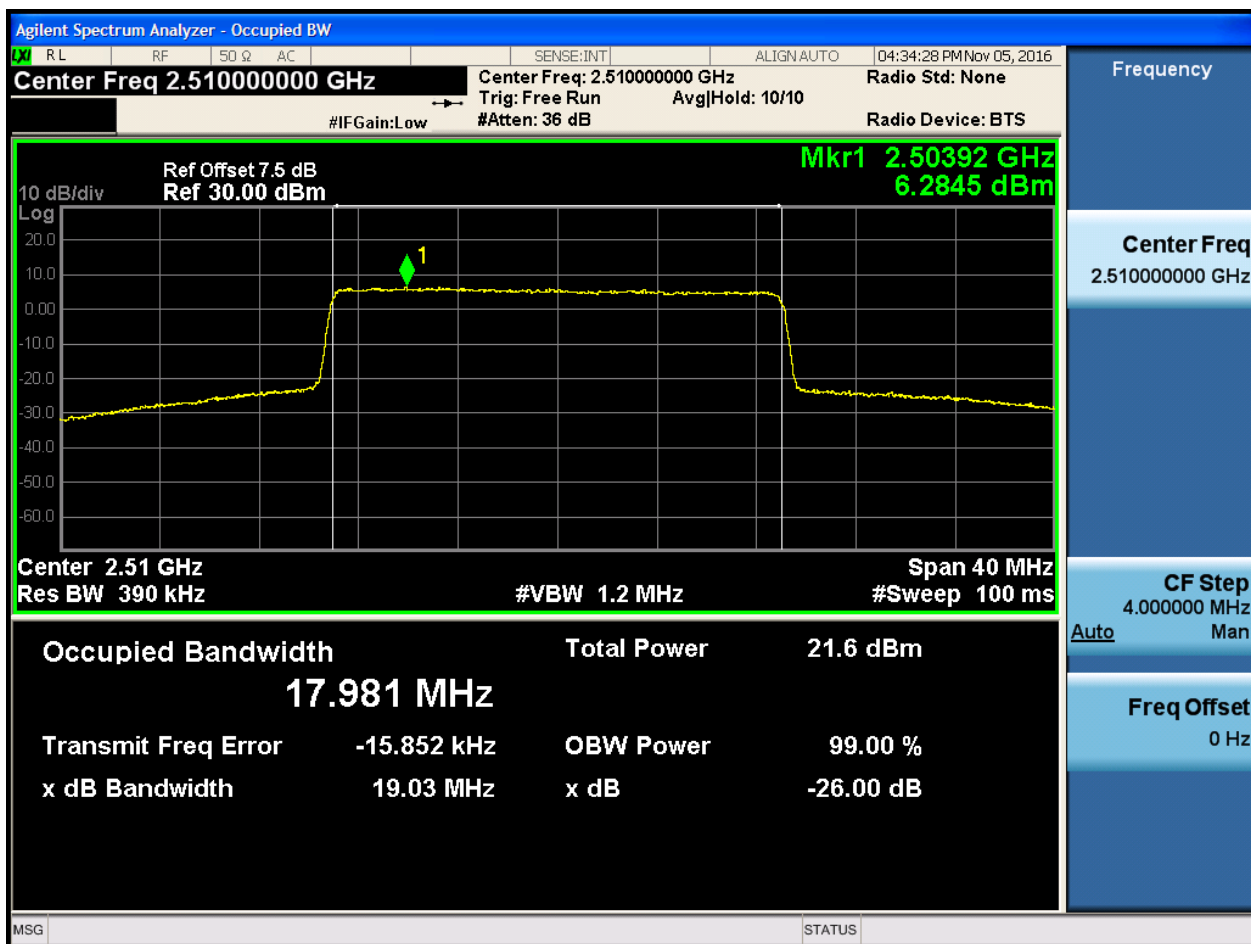




4.2.1.2.4 Test Bandwidth = 20

4.2.1.2.4.1 Test Channel = LCH

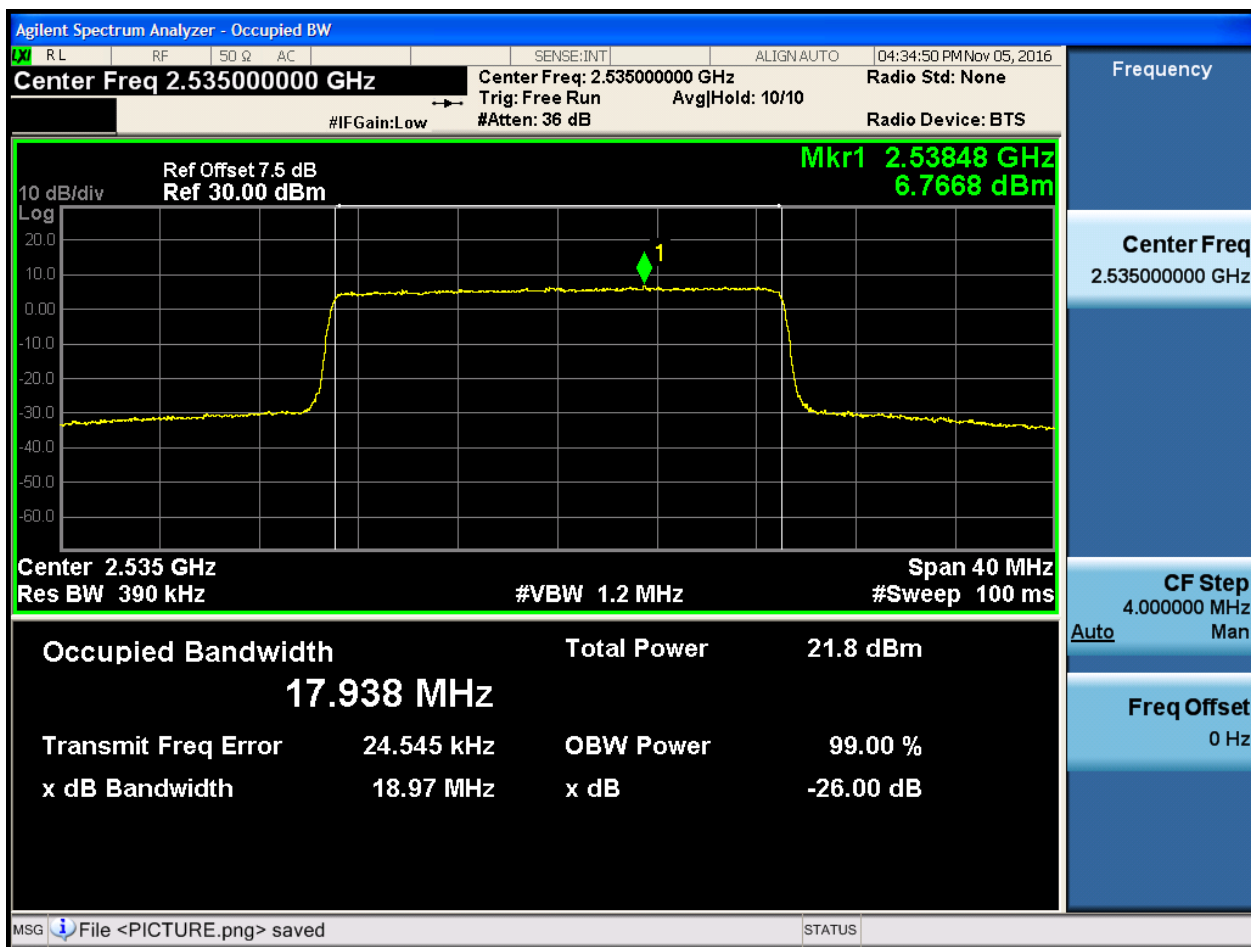
4.2.1.2.4.1.1 Test RB = RB100#0





4.2.1.2.4.2 Test Channel = MCH

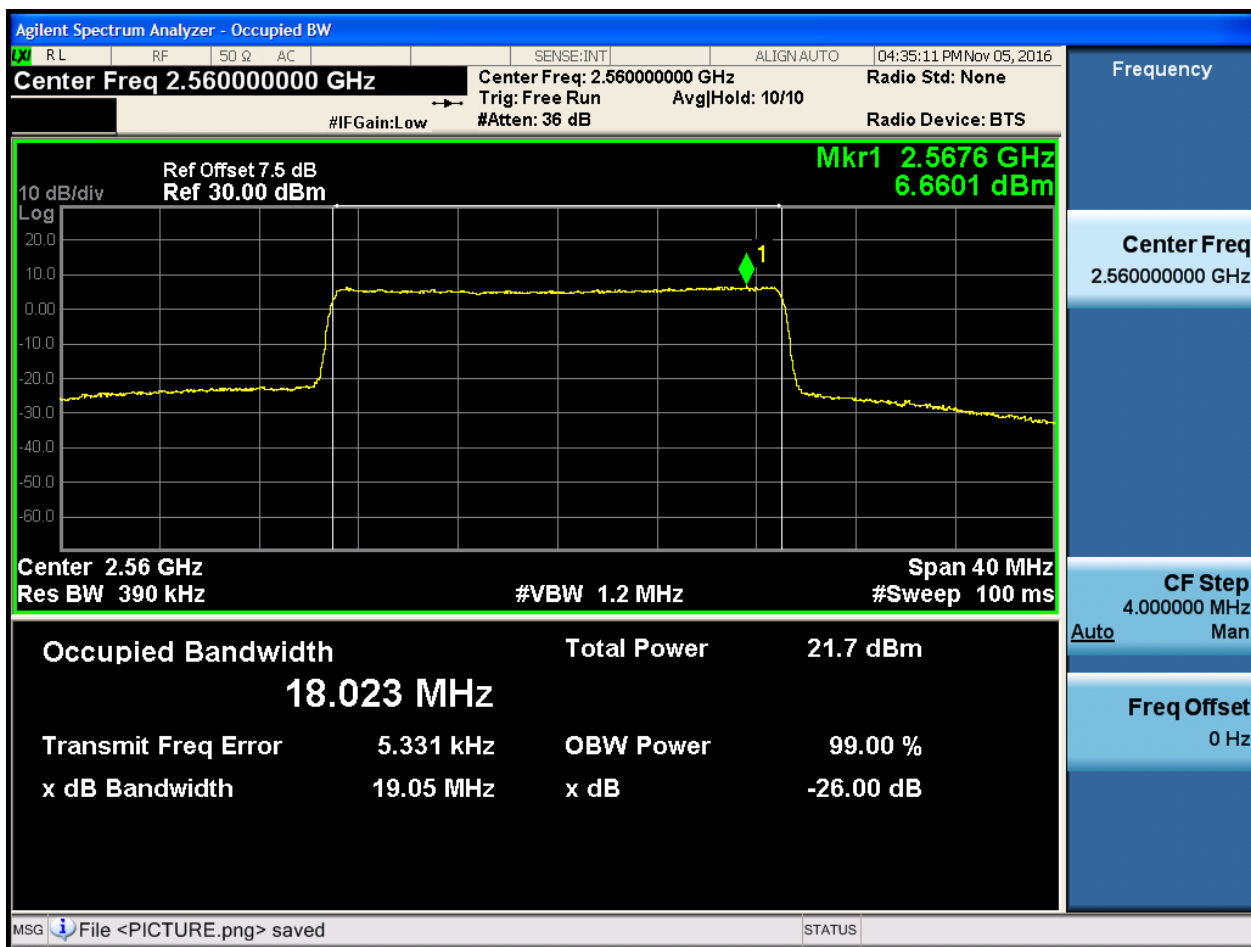
4.2.1.2.4.2.1 Test RB = RB100#0





4.2.1.2.4.3 Test Channel = HCH

4.2.1.2.4.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.3 For LTE

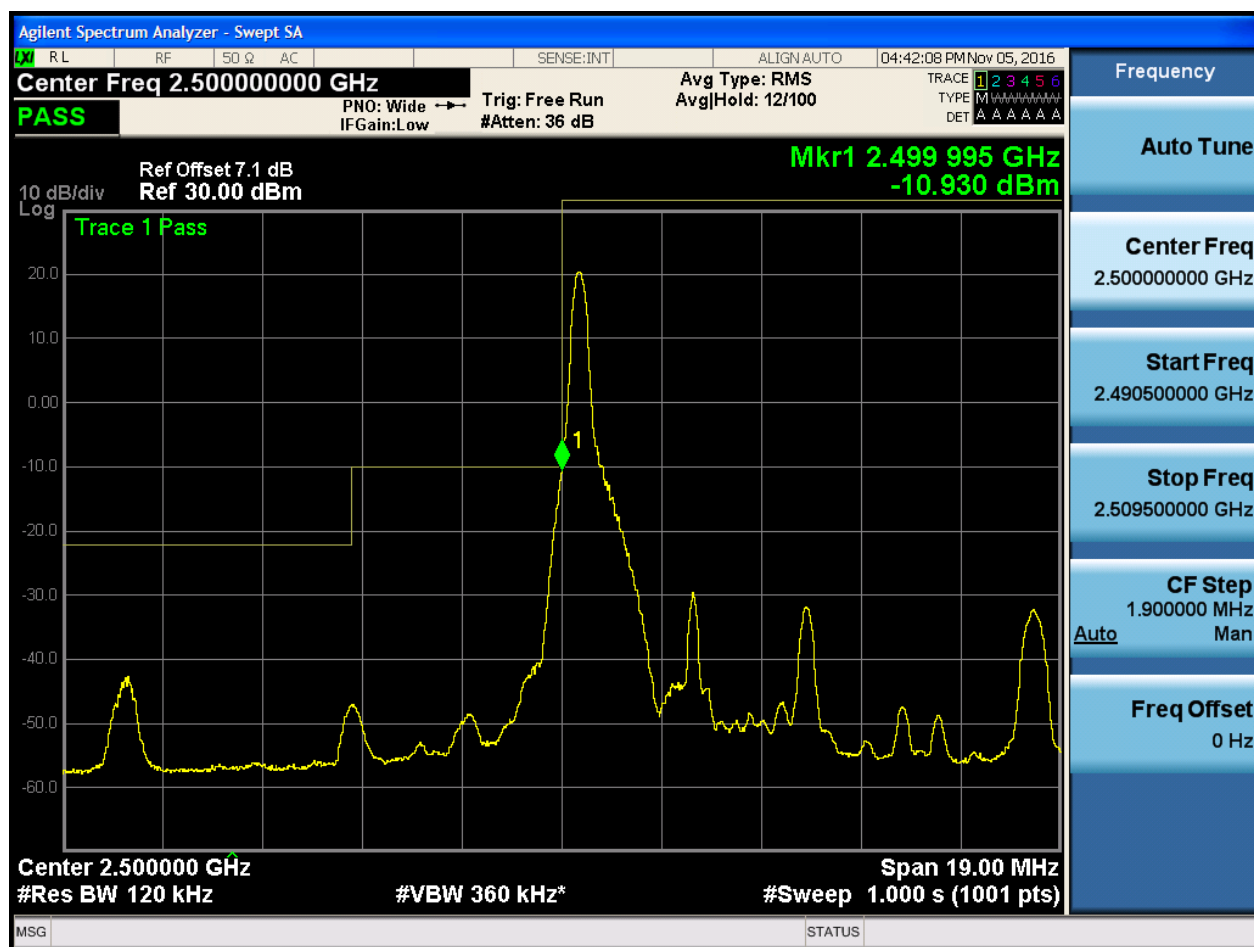
5.3.6 Test Band = BAND7

5.3.6.1 Test Mode = LTE/TM1

5.3.6.1.1 Test Bandwidth = 5

5.3.6.1.1.1 Test Channel = LCH

5.3.6.1.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:42:26 PM Nov 05, 2016

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 120 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-51.325 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:42:45 PM Nov 05, 2016

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

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-26.133 dBm

10 dB/div
Log

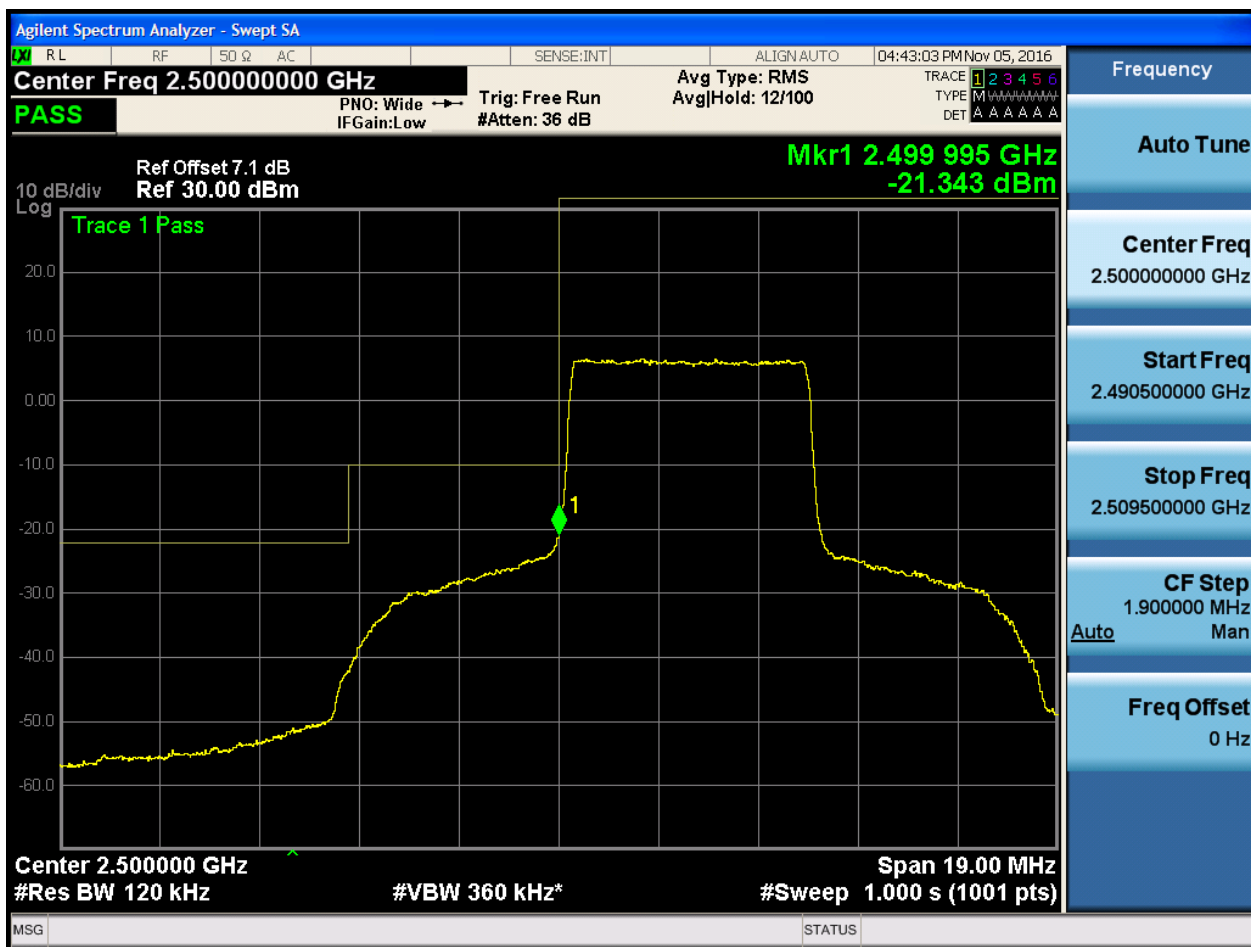
Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



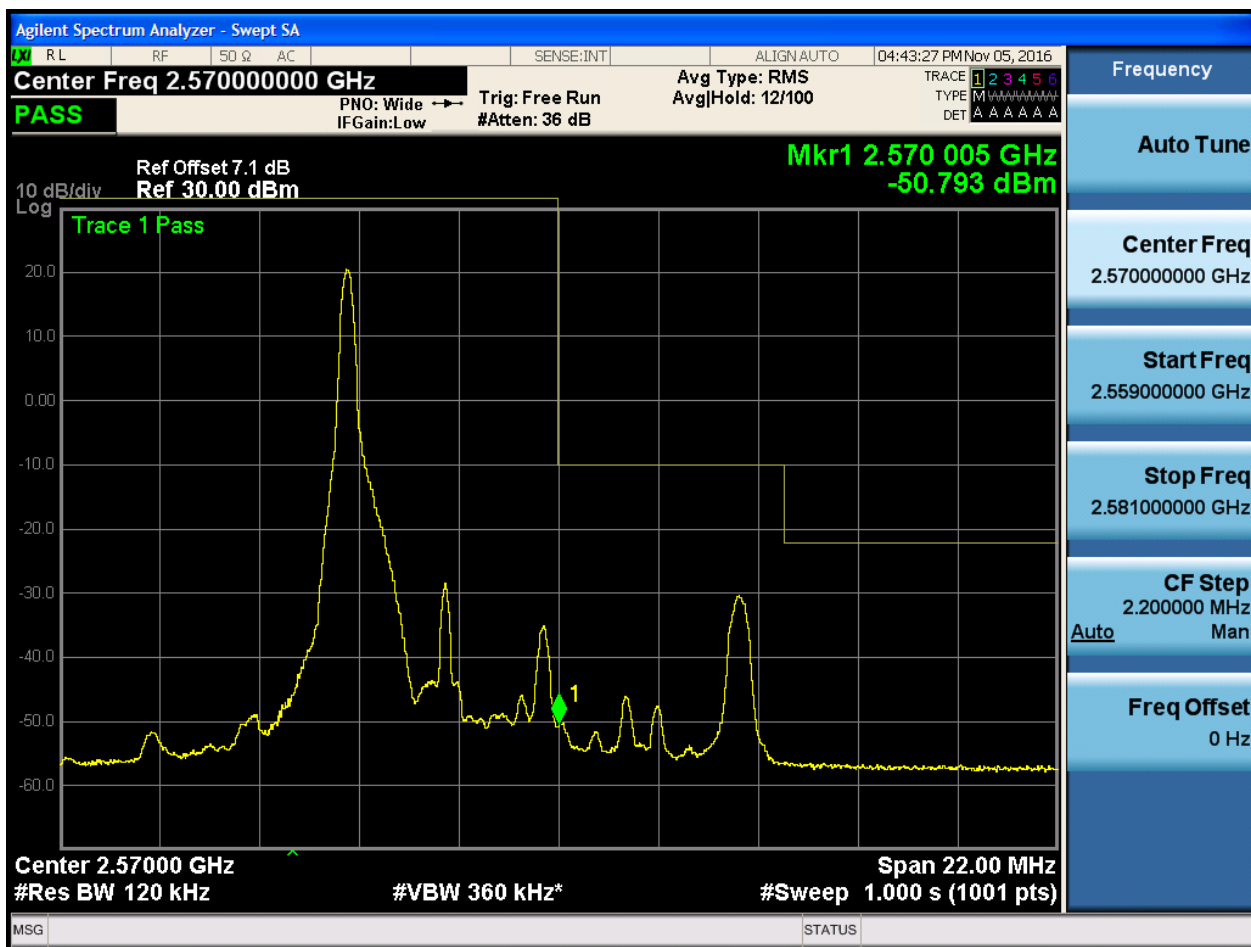
5.3.6.1.1.1.4 Test RB = RB25#0





5.3.6.1.1.2 Test Channel = HCH

5.3.6.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:43:45 PM Nov 05, 2016

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 120 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-10.796 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:44:03 PM Nov 05, 2016

Center Freq 2.57000000 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
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-31.020 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#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



5.3.6.1.1.2.4 Test RB = RB25#0

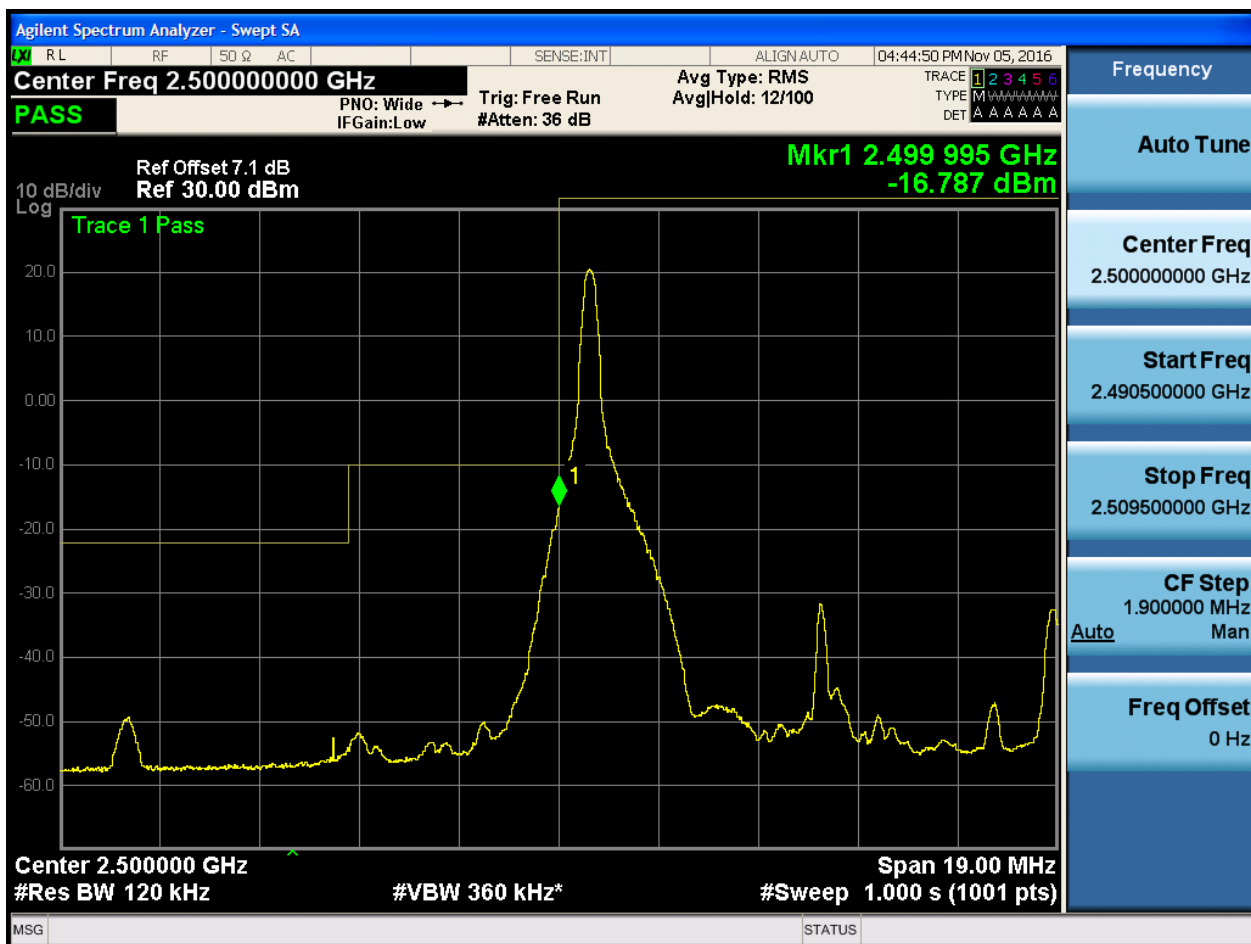




5.3.6.1.2 Test Bandwidth = 10

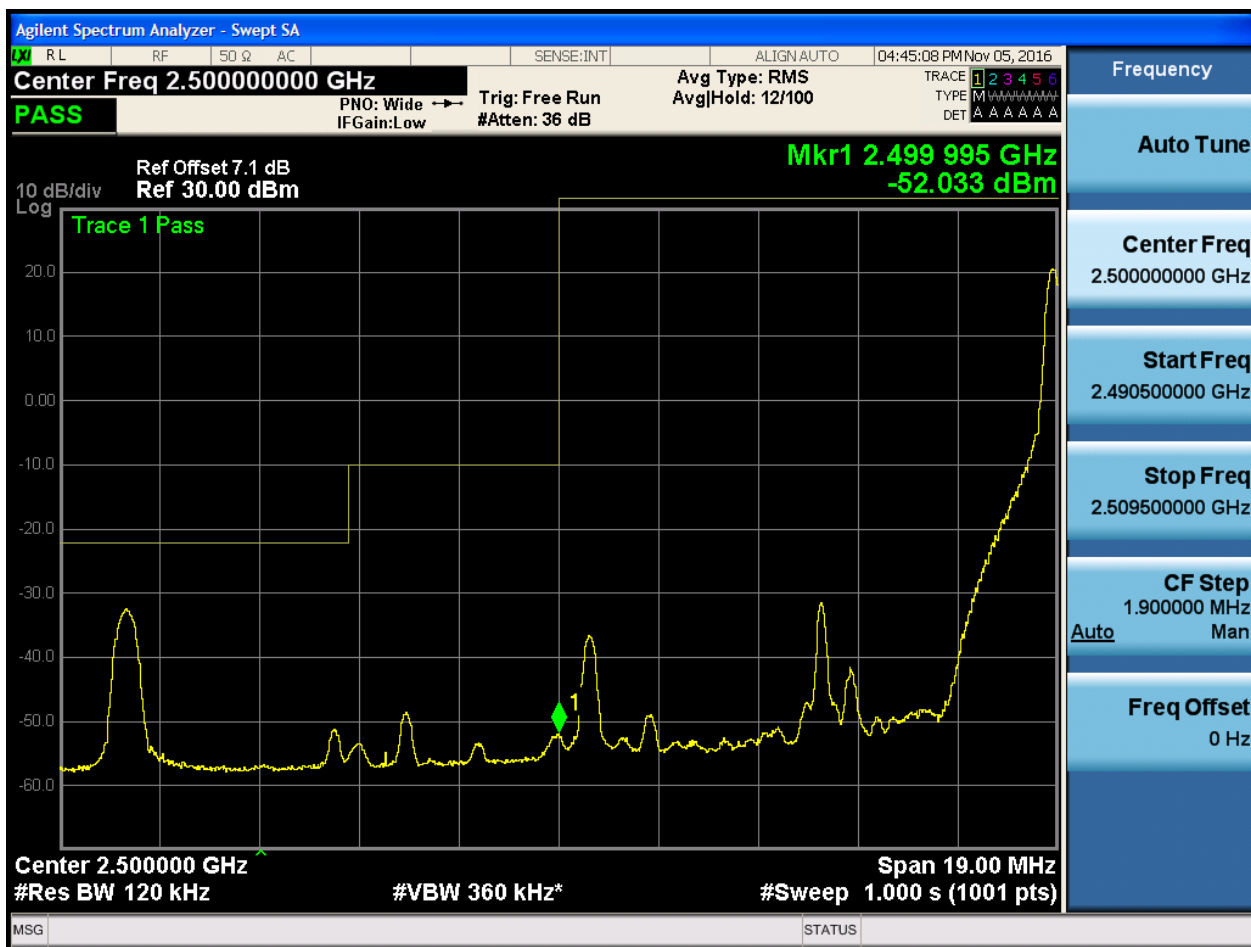
5.3.6.1.2.1 Test Channel = LCH

5.3.6.1.2.1.1 Test RB = RB1#0





5.3.6.1.2.1.2 Test RB = RB1#49



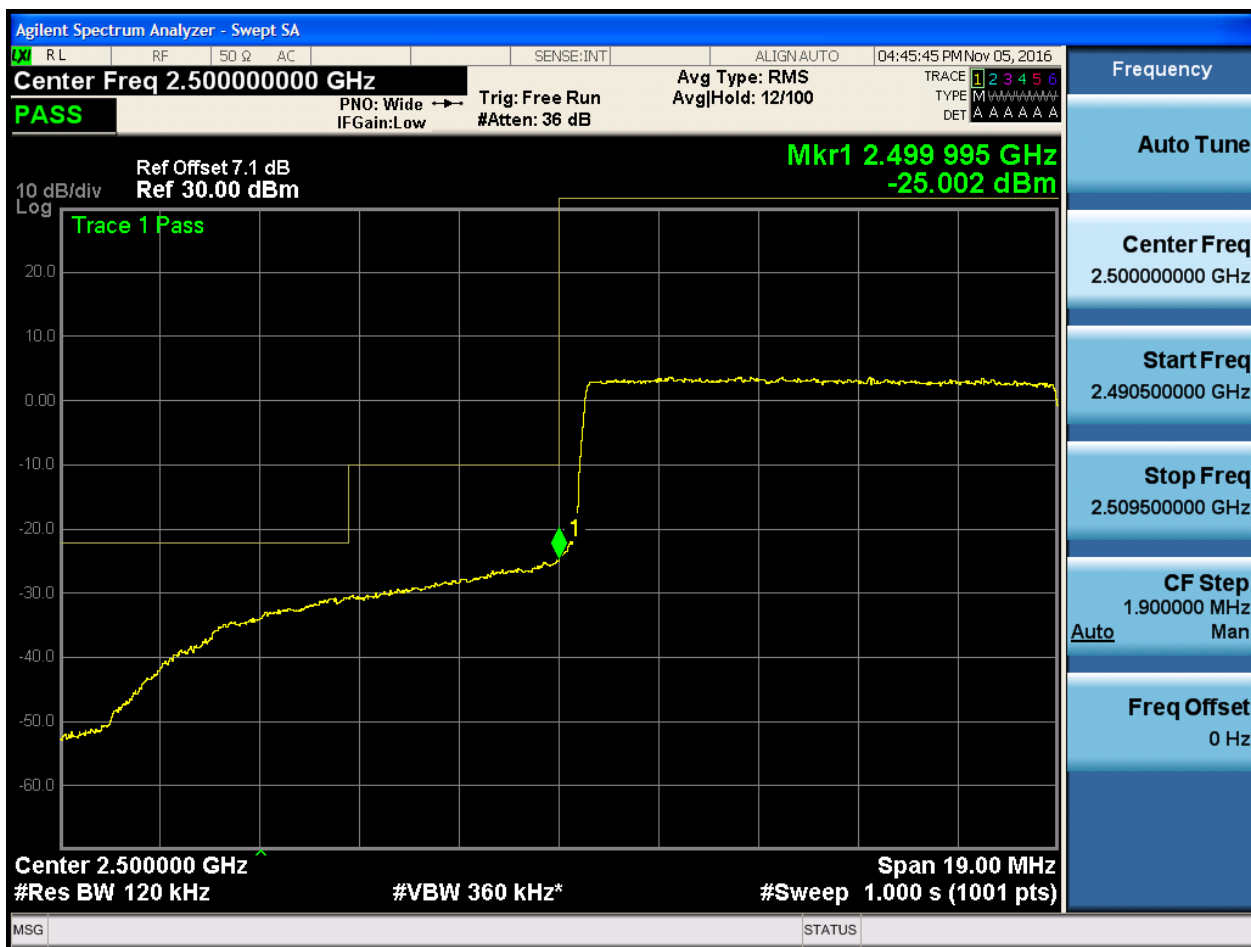


5.3.6.1.2.1.3 Test RB = RB25#13



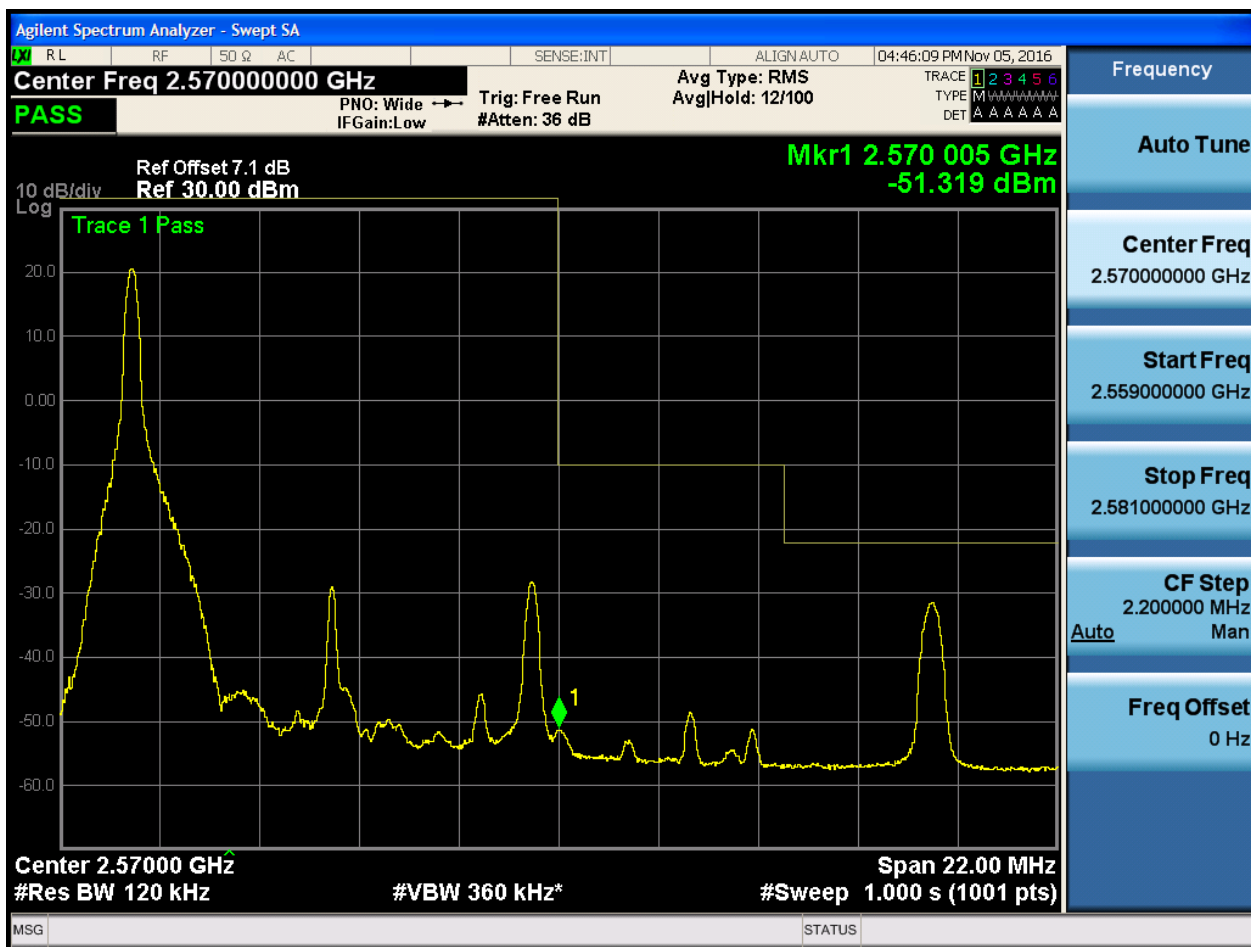


5.3.6.1.2.1.4 Test RB = RB50#0



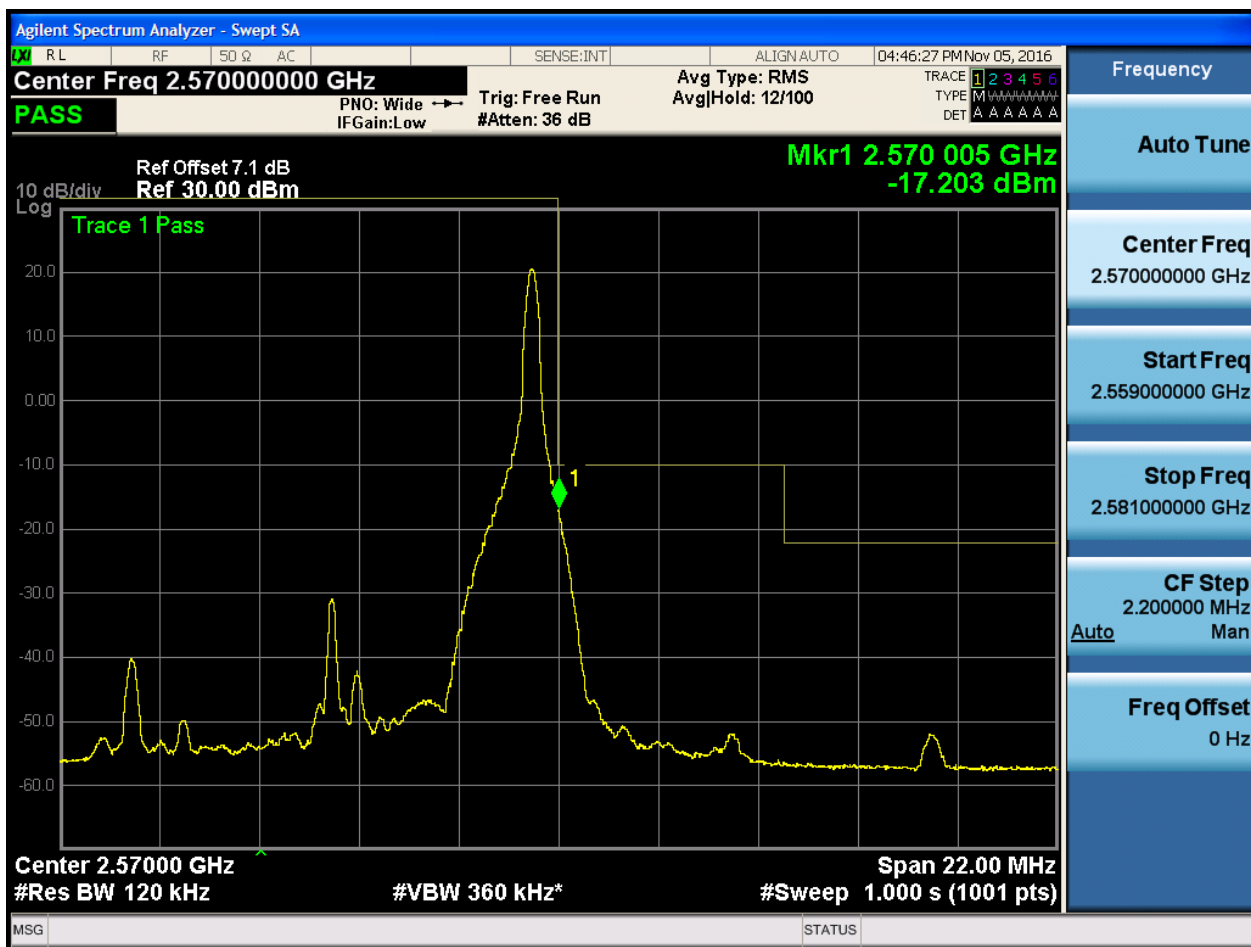
5.3.6.1.2.2 Test Channel = HCH

5.3.6.1.2.2.1 Test RB = RB1#0



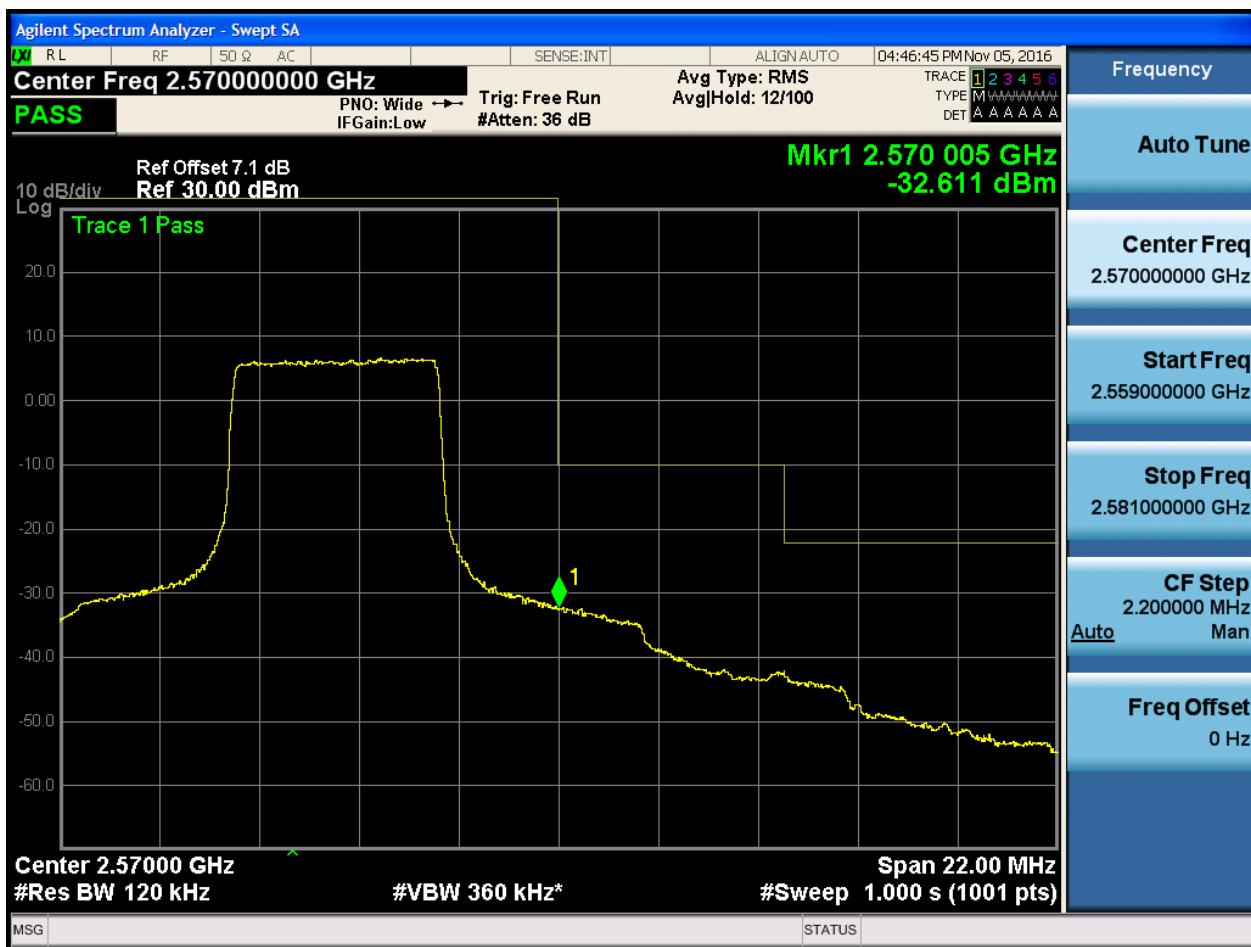


5.3.6.1.2.2.2 Test RB = RB1#49





5.3.6.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:47:04 PM Nov 05, 2016

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-29.095 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

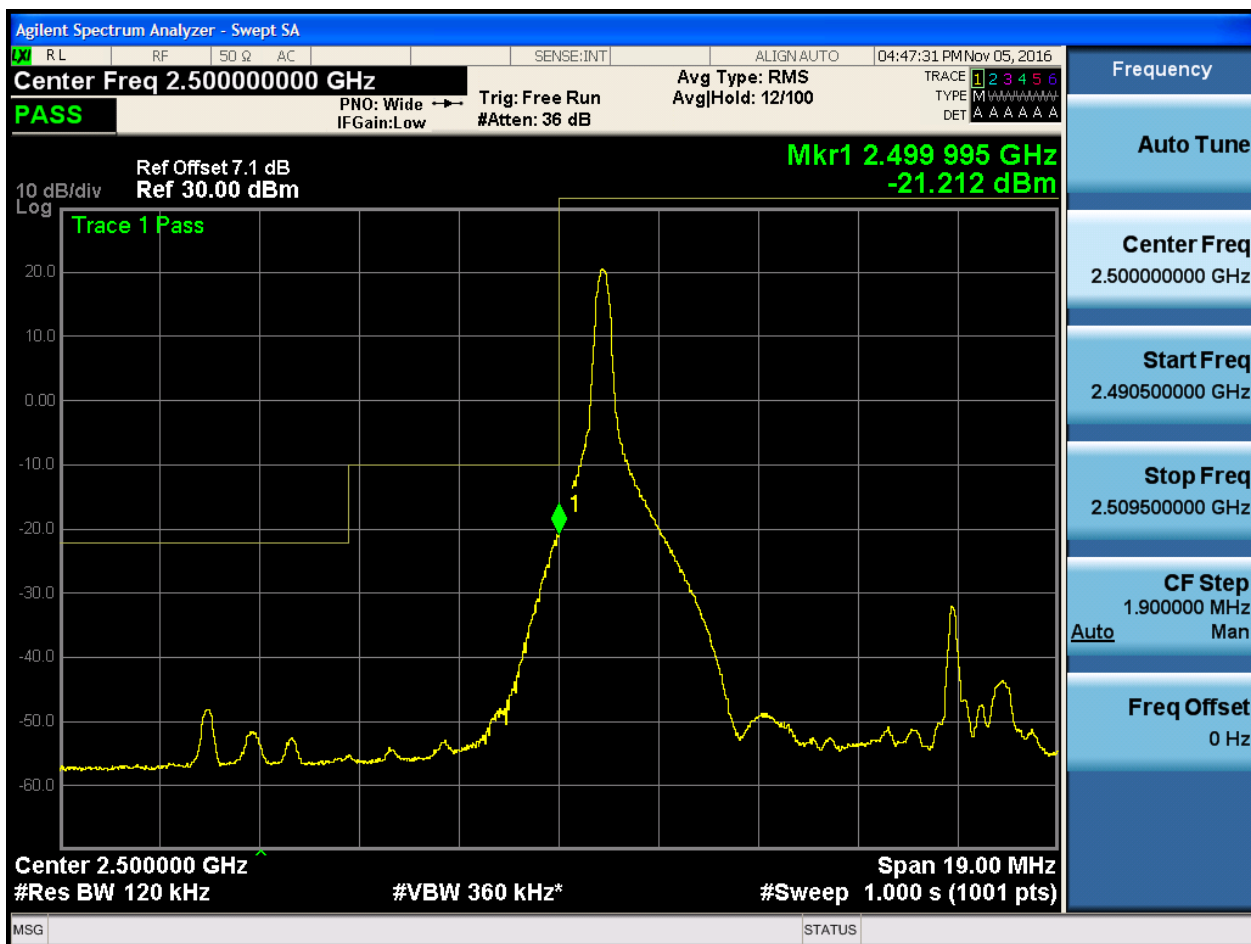
MSG STATUS



5.3.6.1.3 Test Bandwidth = 15

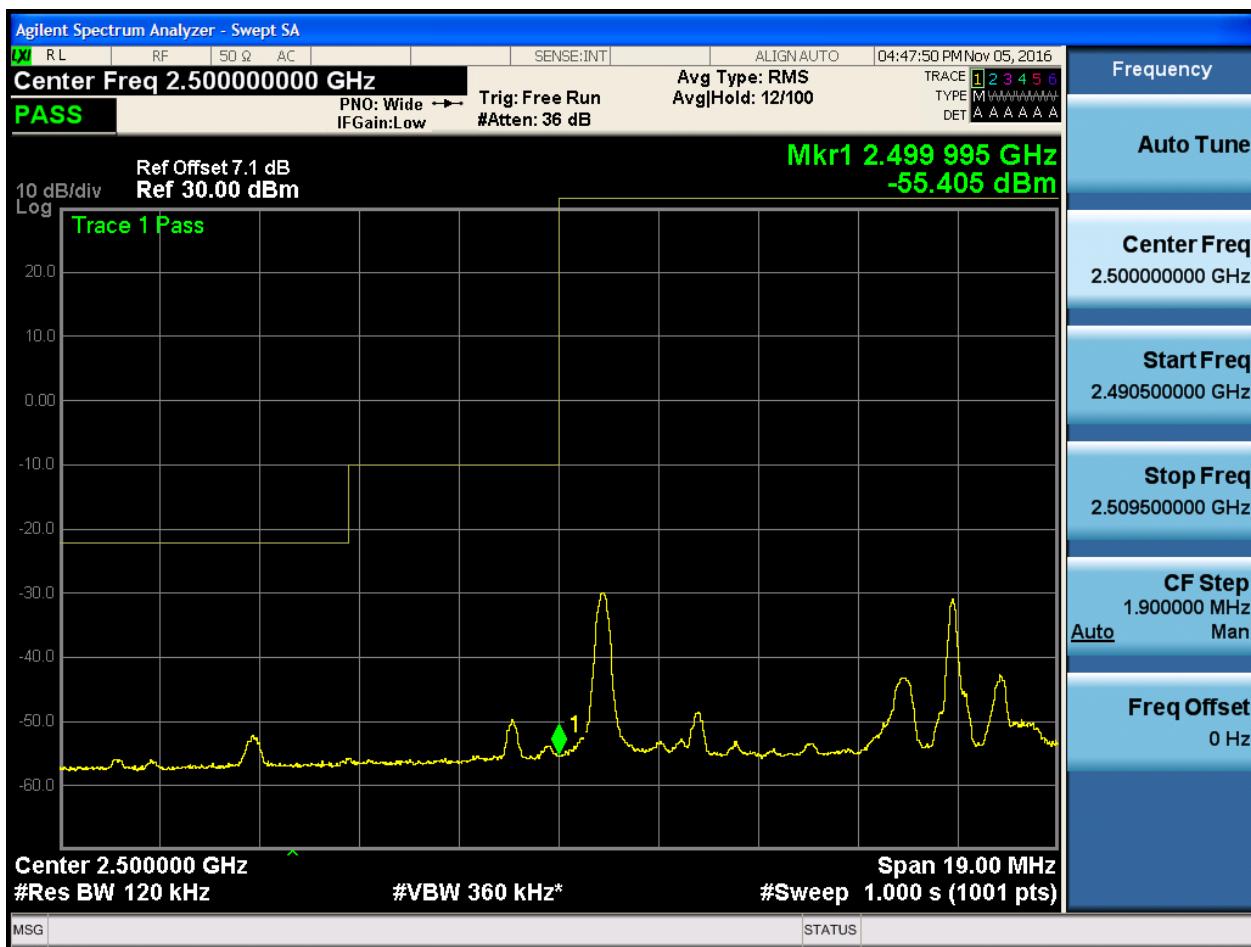
5.3.6.1.3.1 Test Channel = LCH

5.3.6.1.3.1.1 Test RB = RB1#0





5.3.6.1.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:48:08 PM Nov 05, 2016

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 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.197 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



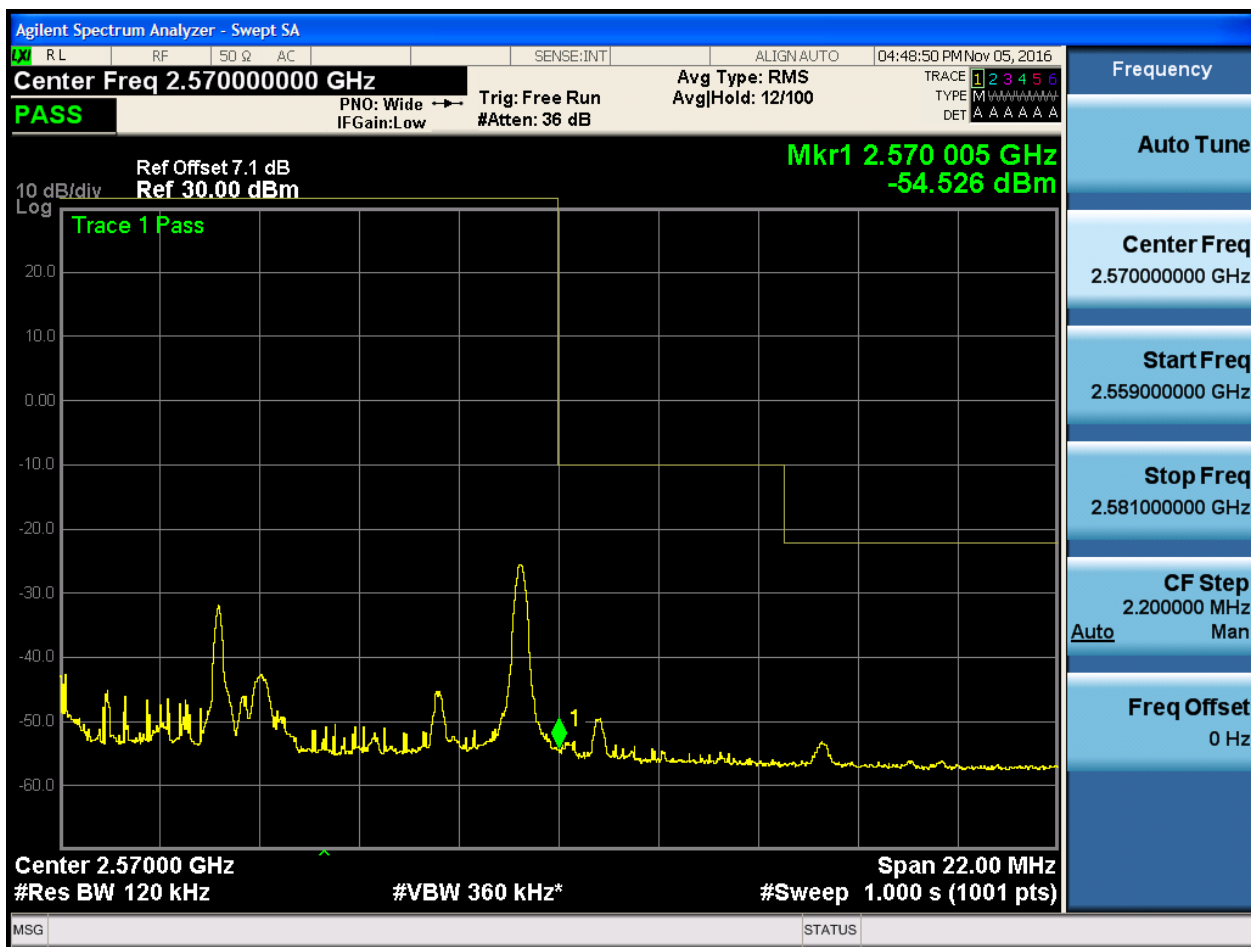
5.3.6.1.3.1.4 Test RB = RB75#0





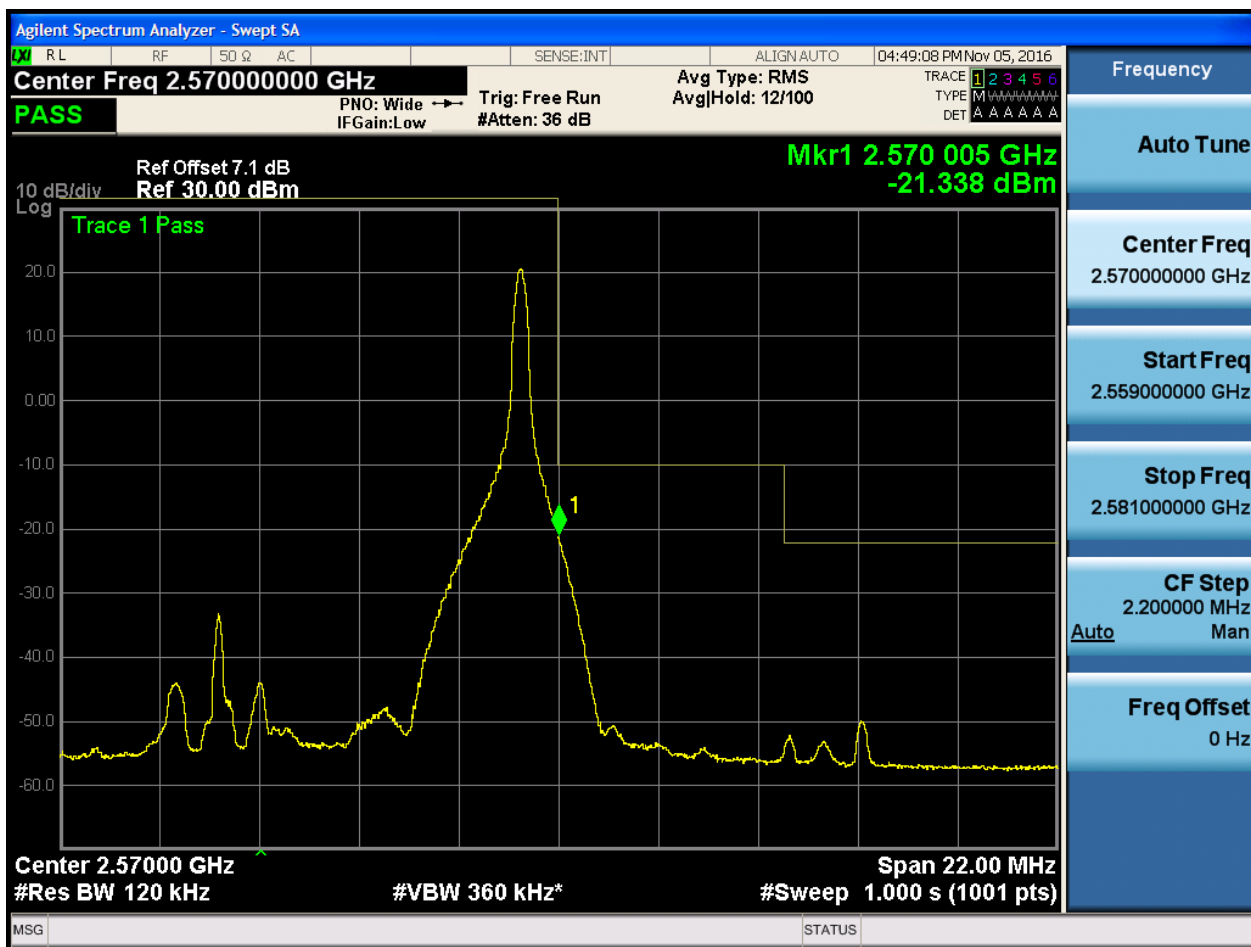
5.3.6.1.3.2 Test Channel = HCH

5.3.6.1.3.2.1 Test RB = RB1#0





5.3.6.1.3.2.2 Test RB = RB1#74



[illegible]



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:49:45 PM Nov 05, 2016

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
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 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-27.108 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

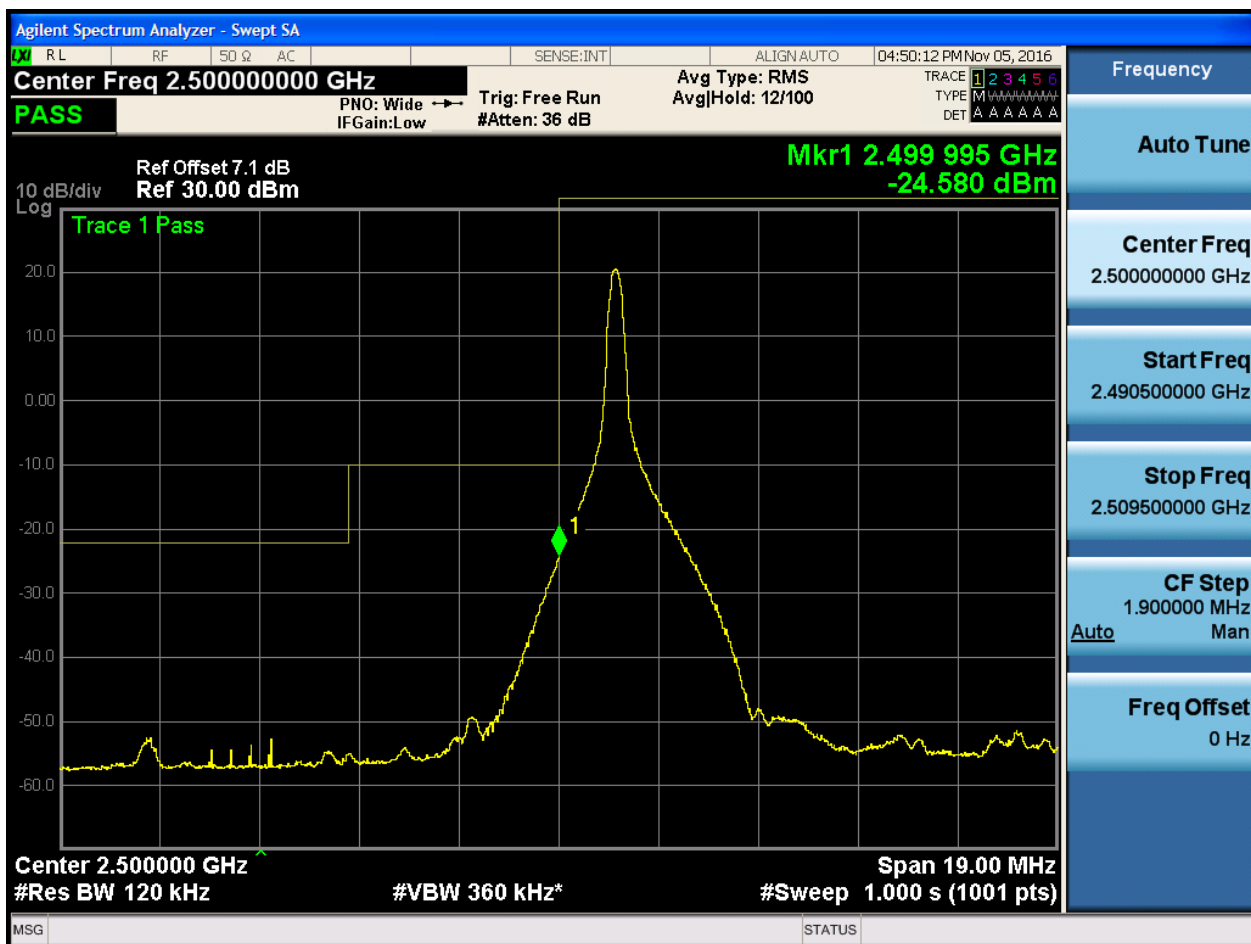
MSG STATUS



5.3.6.1.4 Test Bandwidth = 20

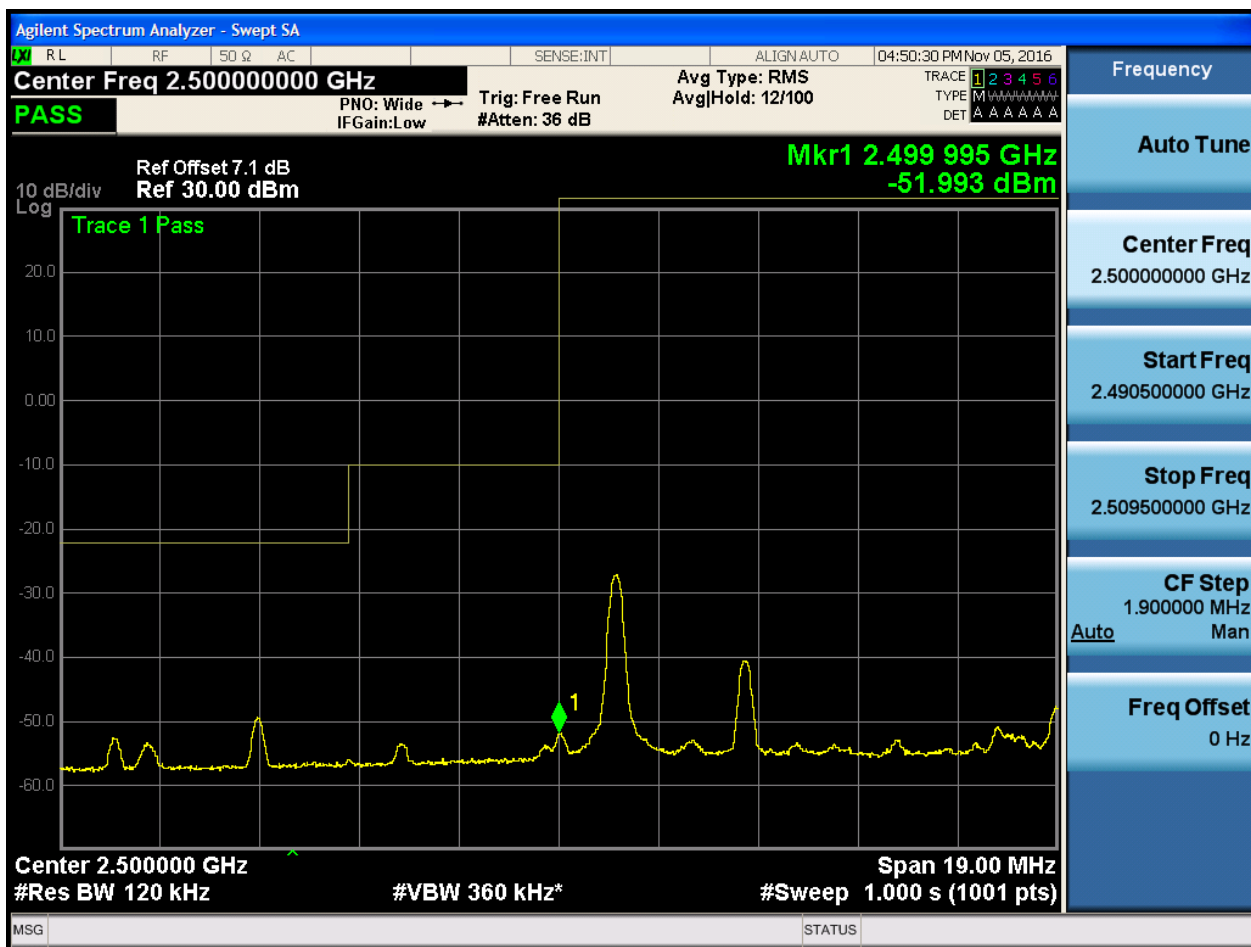
5.3.6.1.4.1 Test Channel = LCH

5.3.6.1.4.1.1 Test RB = RB1#0





5.3.6.1.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-29.059 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

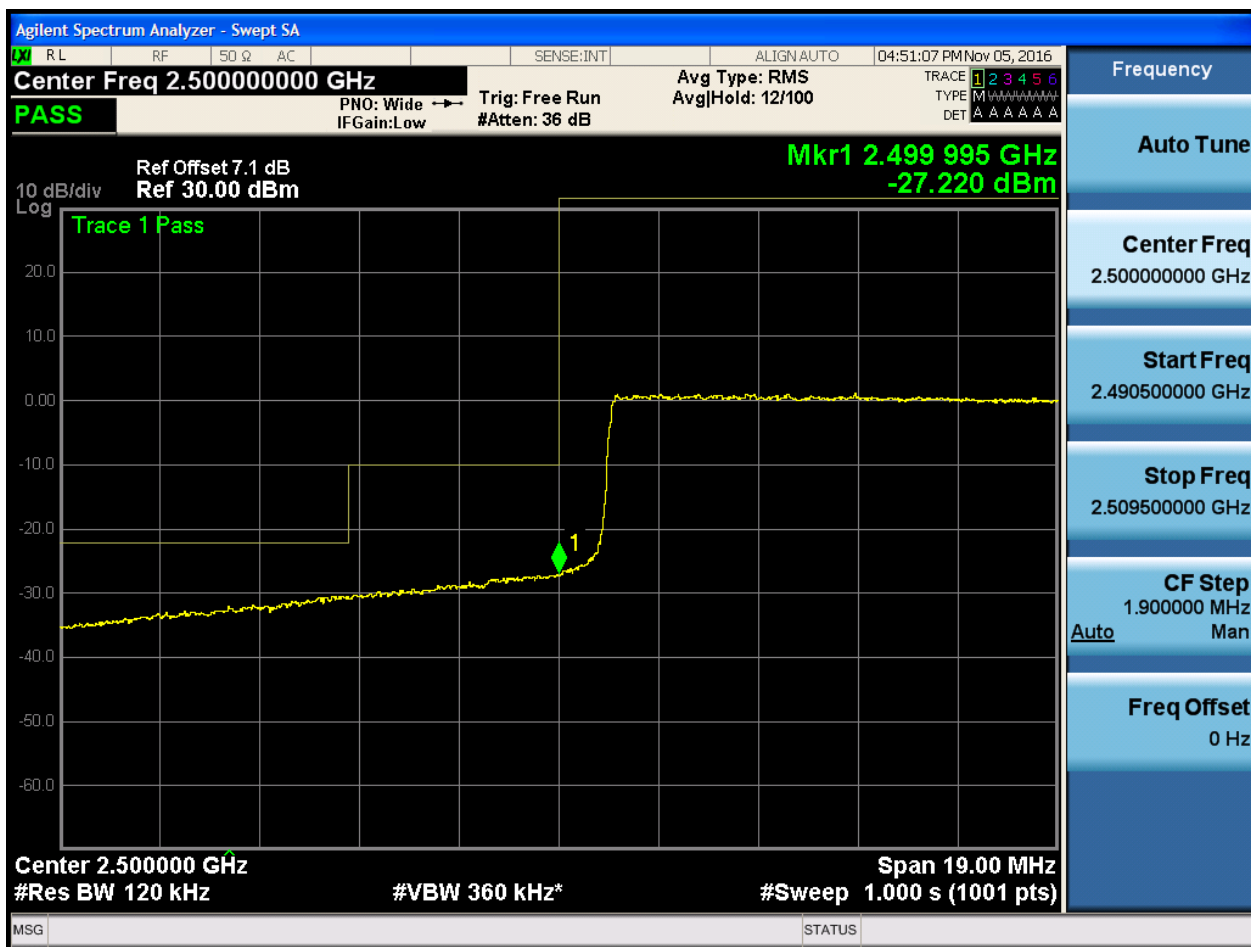
10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

MSG STATUS



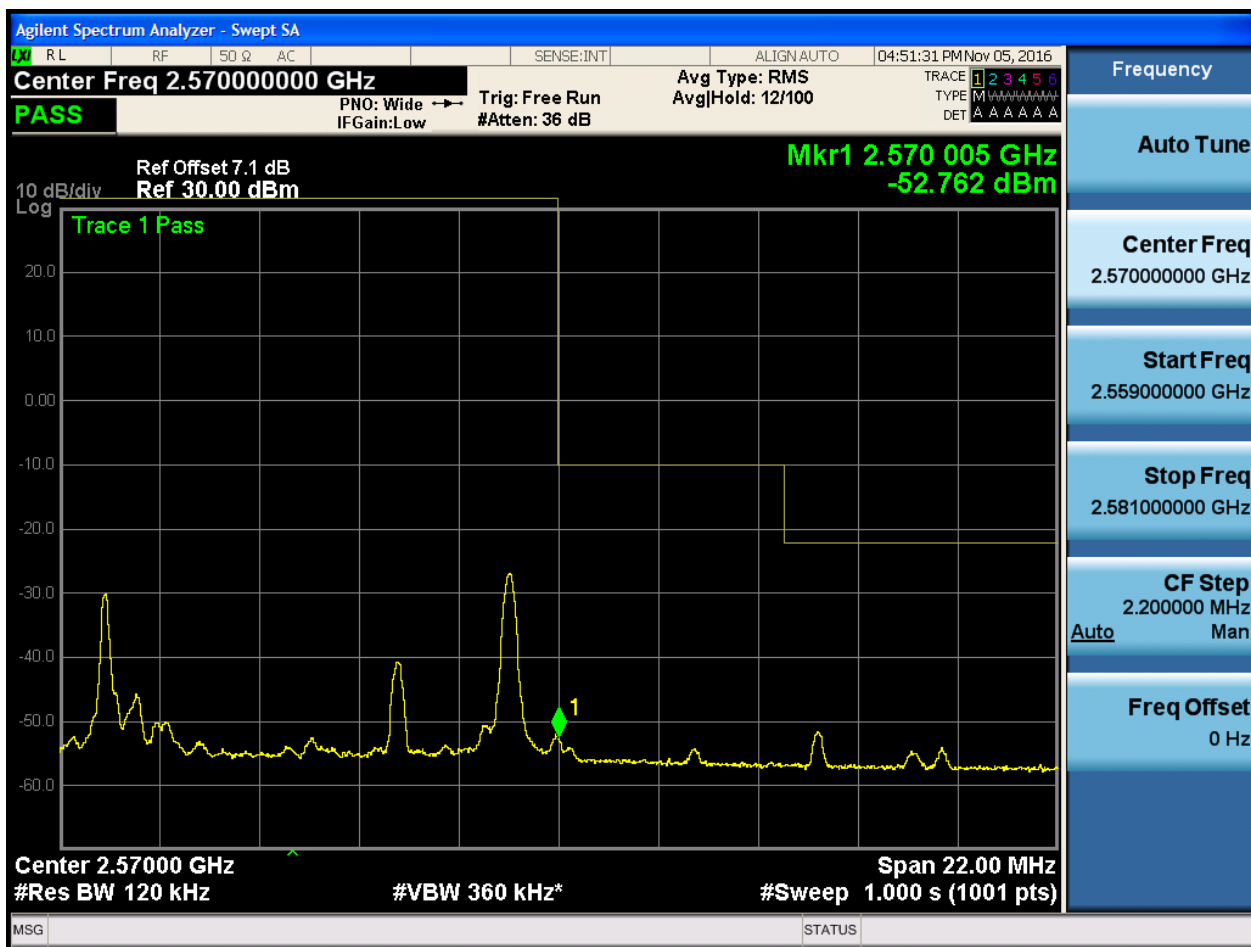
5.3.6.1.4.1.4 Test RB = RB100#0





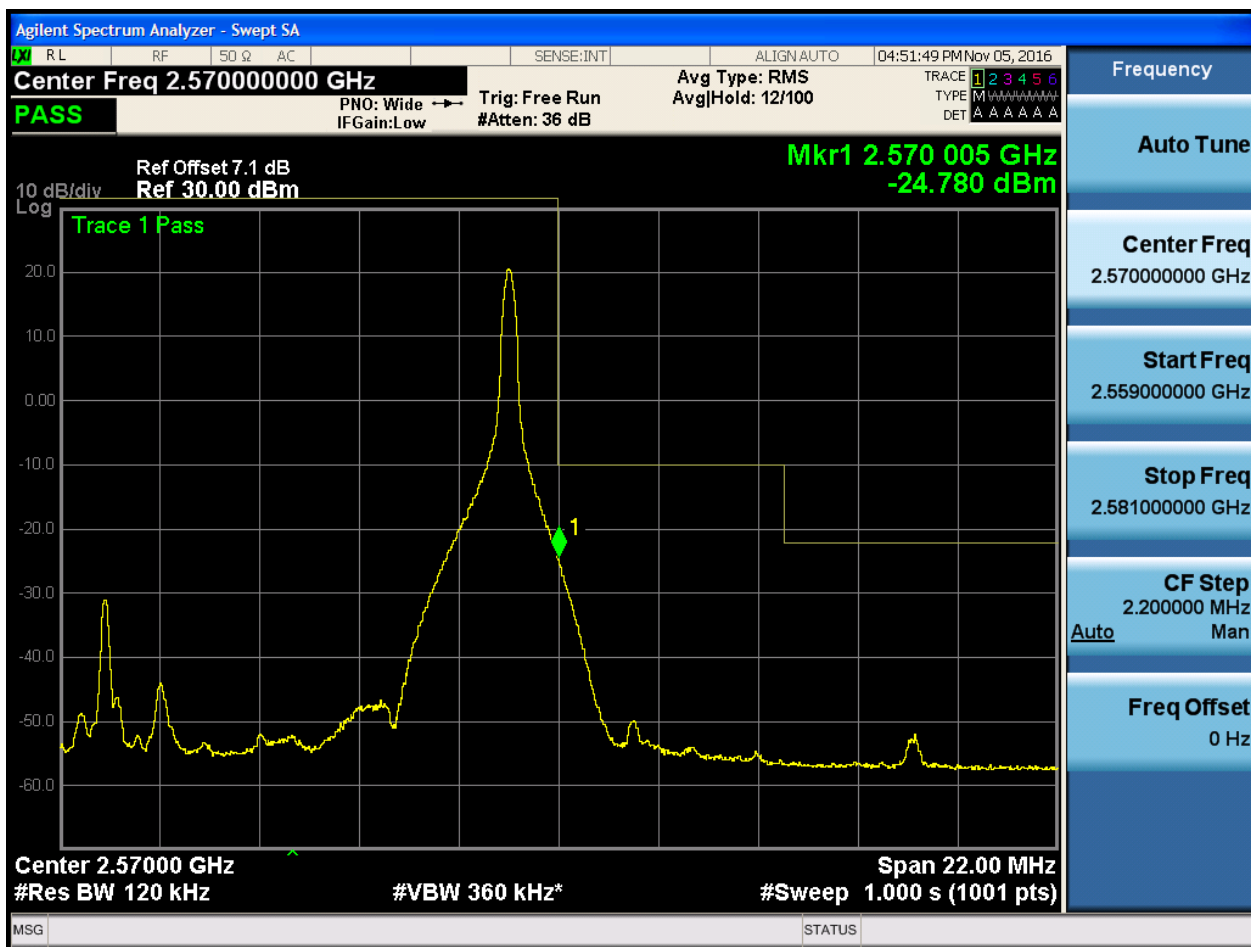
5.3.6.1.4.2 Test Channel = HCH

5.3.6.1.4.2.1 Test RB = RB1#0





5.3.6.1.4.2.2 Test RB = RB1#99



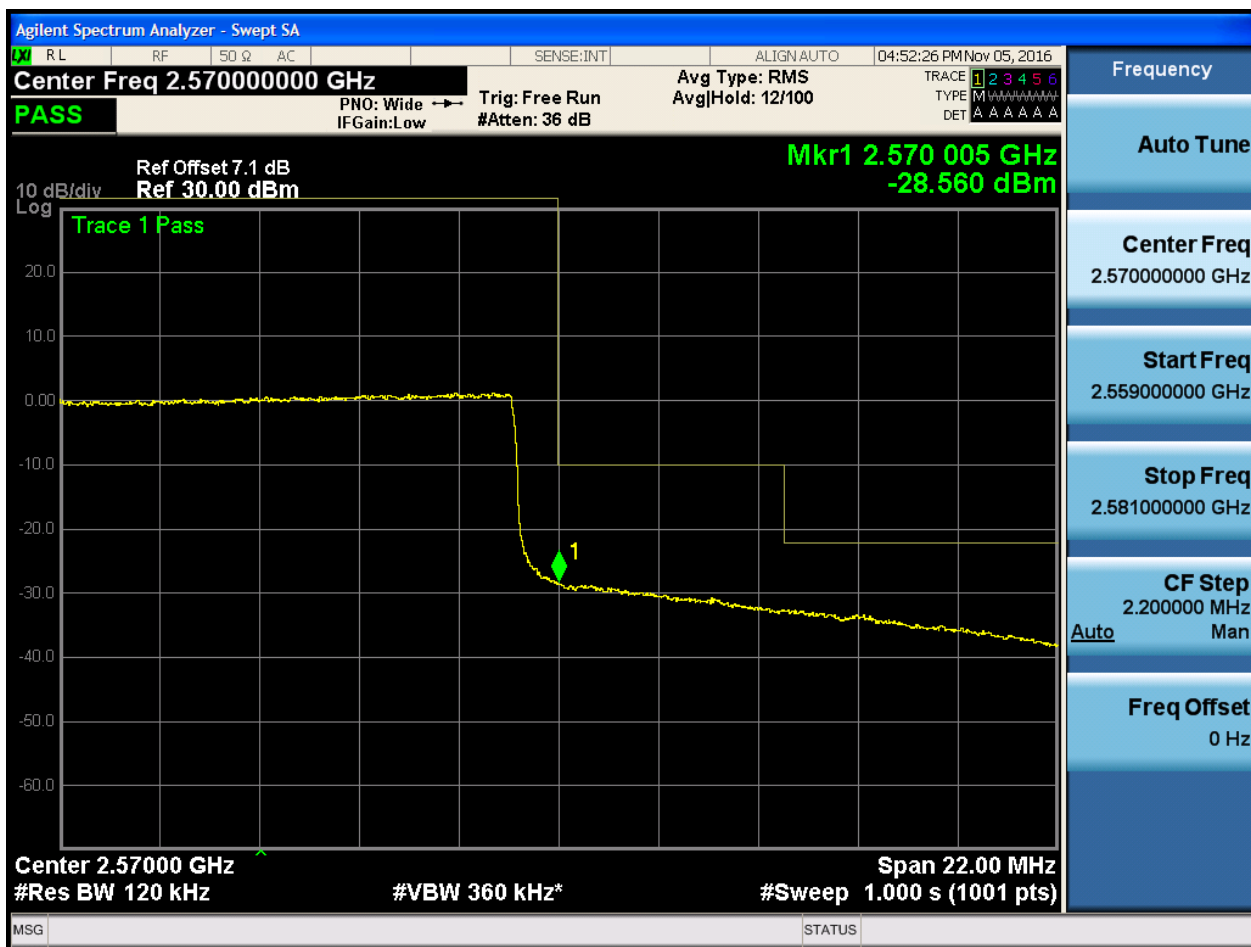


5.3.6.1.4.2.3 Test RB = RB50#25





5.3.6.1.4.2.4 Test RB = RB100#0



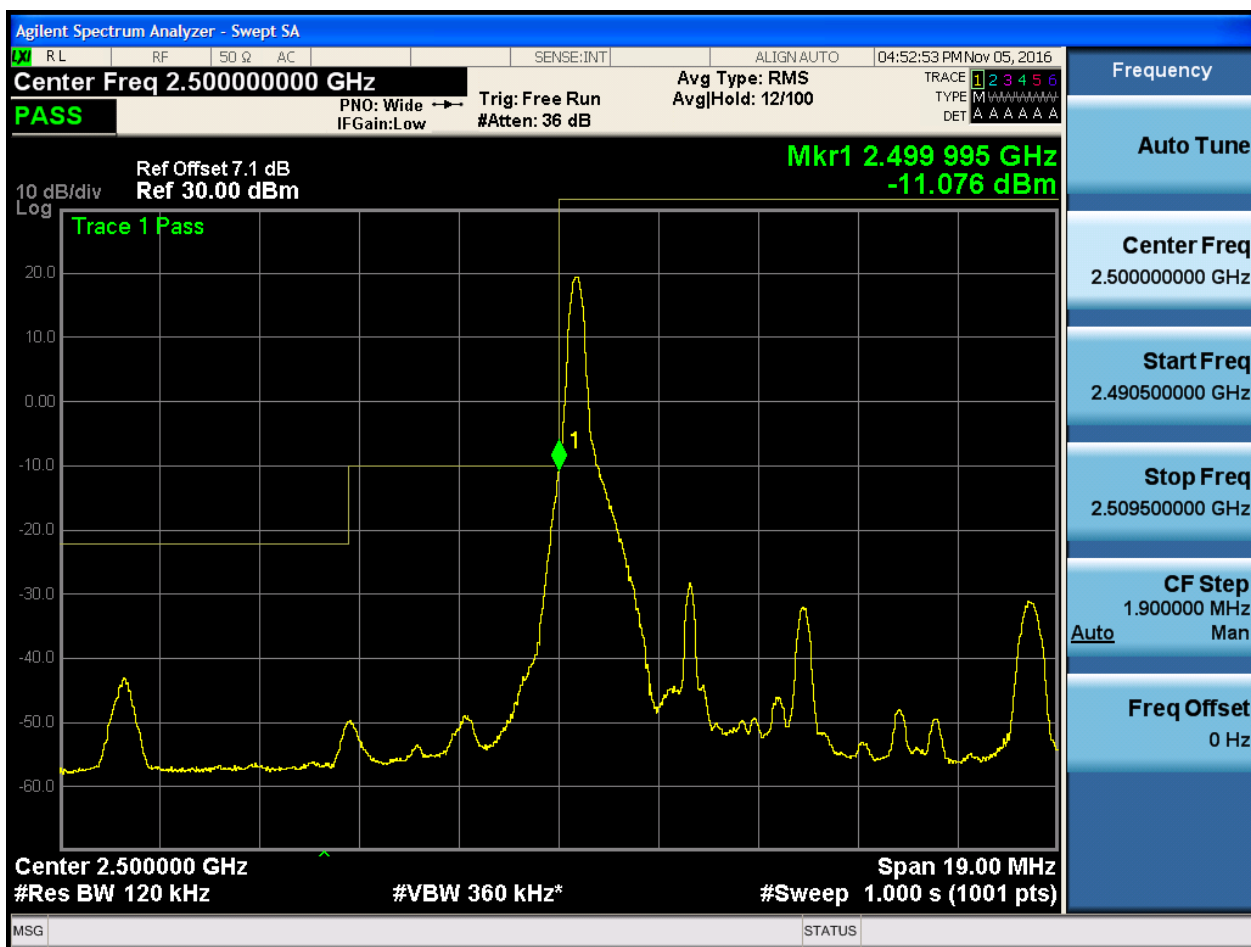


5.3.6.2 Test Mode = LTE/TM2

5.3.6.2.1 Test Bandwidth = 5

5.3.6.2.1.1 Test Channel = LCH

5.3.6.2.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:53:11 PM Nov 05, 2016

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 120 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-51.515 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:53:29 PM Nov 05, 2016

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
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-28.993 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:53:48 PM Nov 05, 2016

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
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-22.054 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

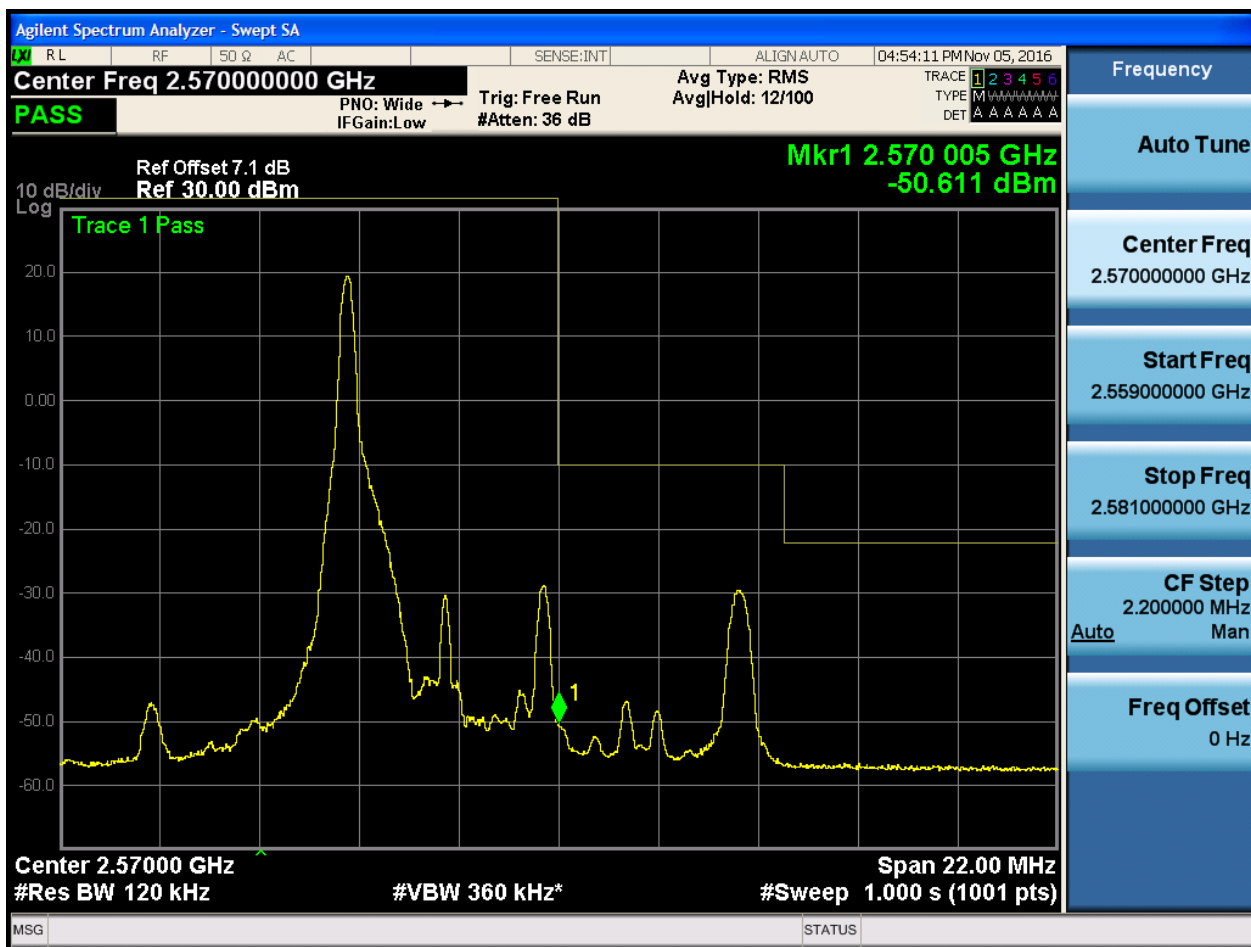
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.3.6.2.1.2 Test Channel = HCH

5.3.6.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:54:30 PM Nov 05, 2016

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

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-12.461 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:54:48 PM Nov 05, 2016

Center Freq 2.570000000 GHz Avg Type: RMS
#Res BW 120 kHz IF Gain: Low Trig: Free Run Avg Hold: 12/100
PASS PNO: Wide → #Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-32.198 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:55:06 PM Nov 05, 2016

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-24.742 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

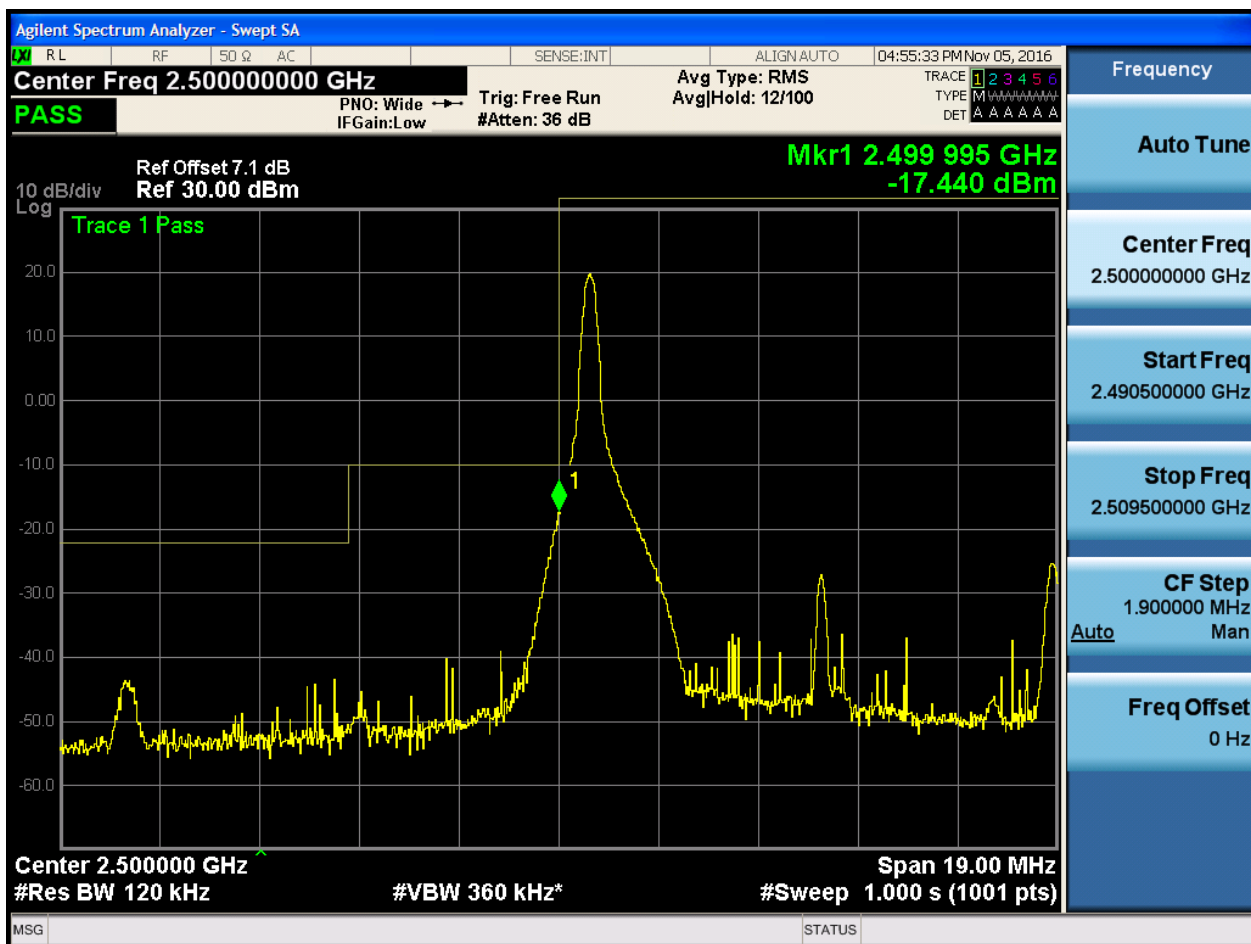
MSG STATUS



5.3.6.2.2 Test Bandwidth = 10

5.3.6.2.2.1 Test Channel = LCH

5.3.6.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-52.385 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

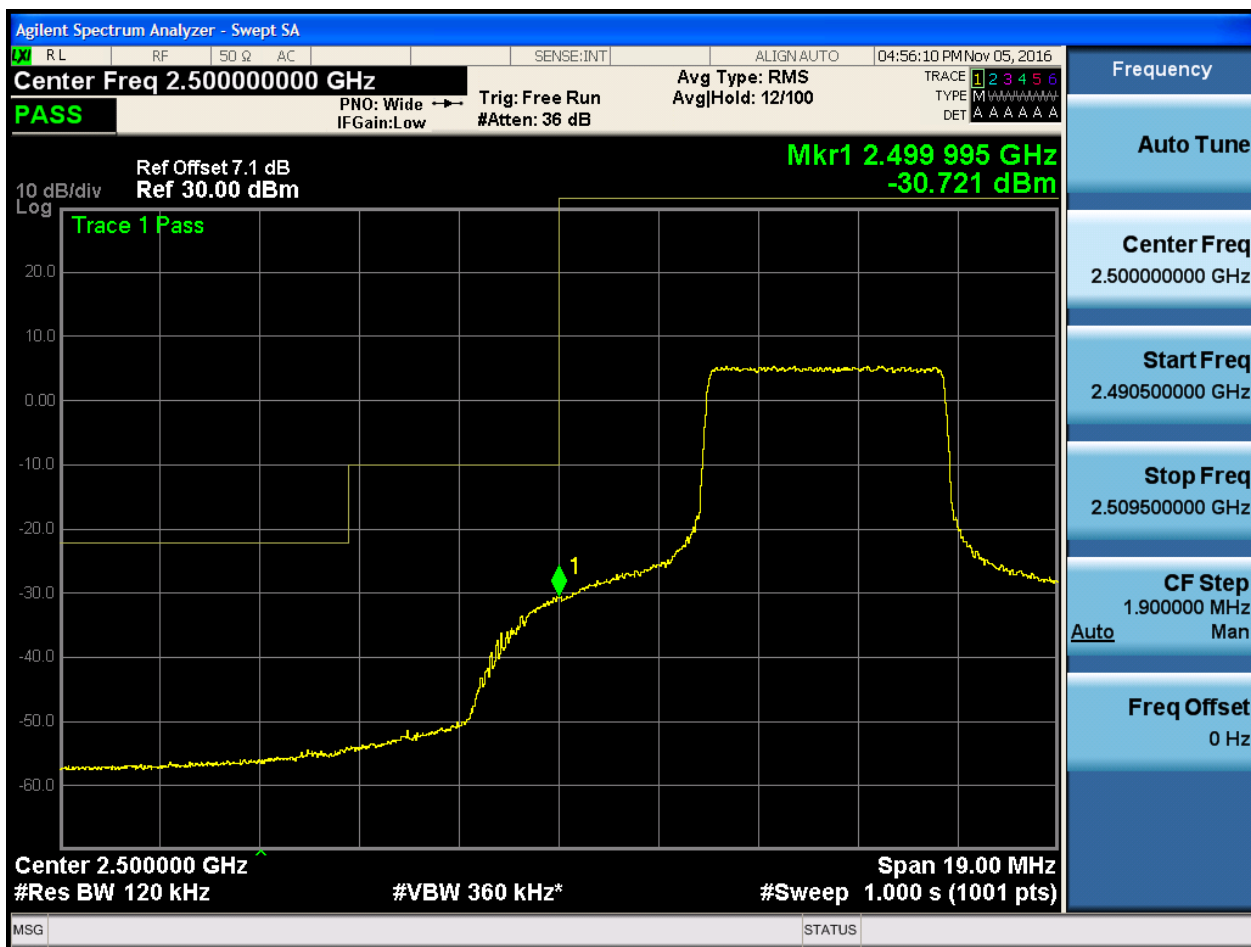
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

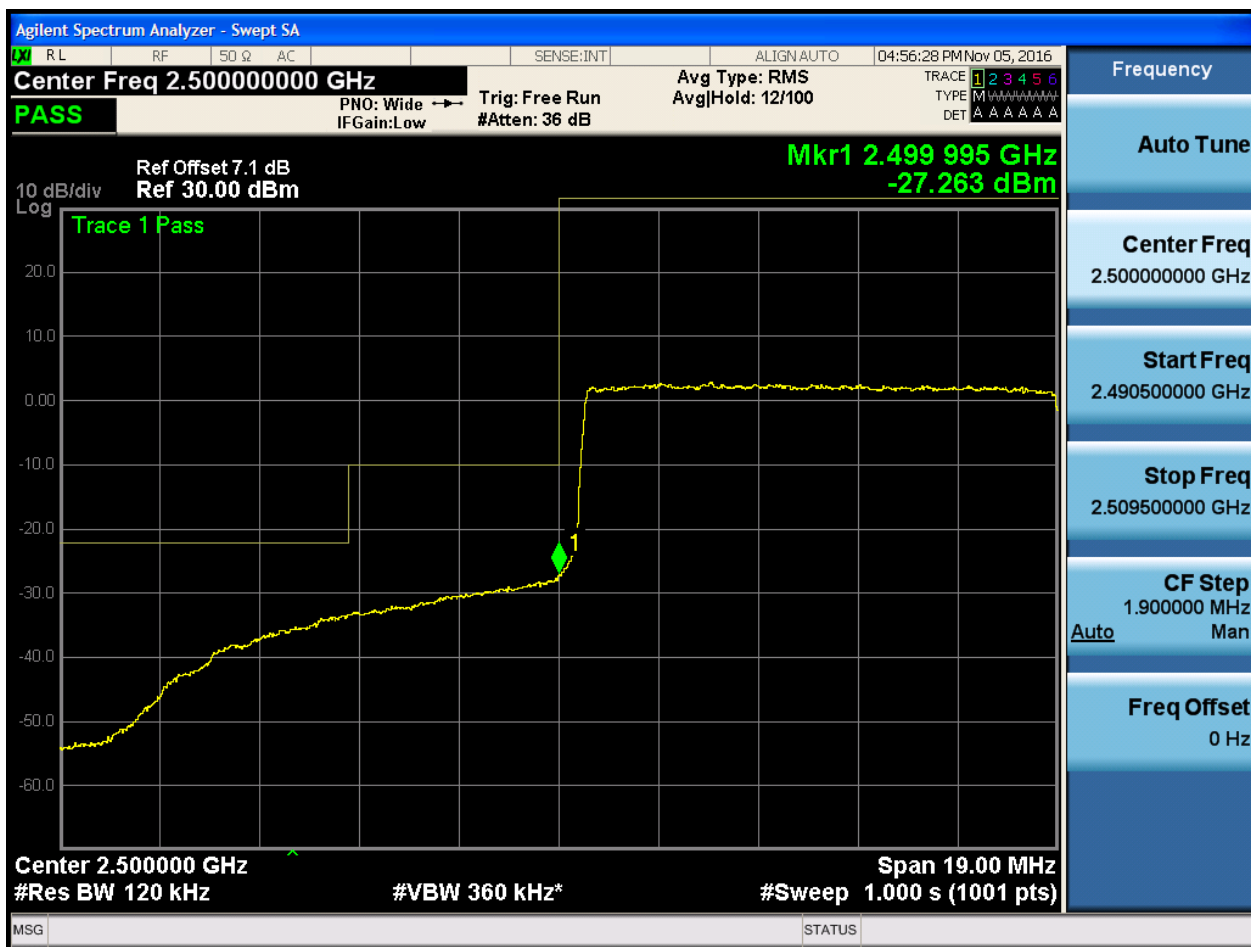


5.3.6.2.2.1.3 Test RB = RB25#13





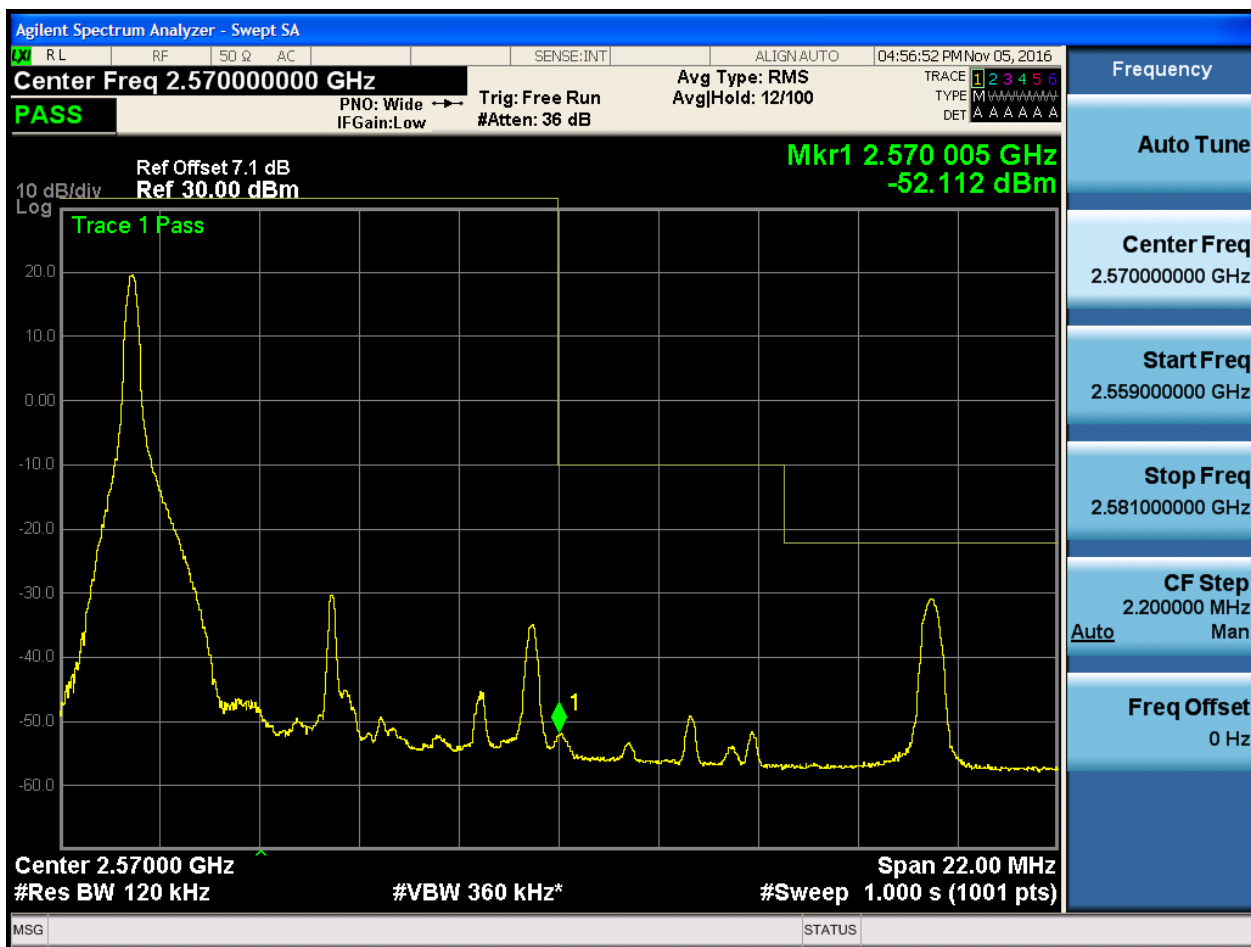
5.3.6.2.2.1.4 Test RB = RB50#0





5.3.6.2.2.2 Test Channel = HCH

5.3.6.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-18.921 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

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

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-linear plot of power spectral density. The x-axis represents frequency, ranging from 2.559 GHz to 2.581 GHz, with a center frequency of 2.570 GHz. The y-axis represents power in dBm, ranging from -60 dBm to 20 dBm. A prominent peak is visible at 2.570005 GHz, marked with a green diamond and labeled '1'. The peak power is -18.921 dBm. The spectrum shows a noisy baseline with several smaller peaks. The analyzer settings include a resolution bandwidth (RBW) of 120 kHz, a video bandwidth (VBW) of 360 kHz, and a sweep time of 1.000 s. The reference level is set to 30.00 dBm with a 7.1 dB offset. The display is in log scale and 10 dB/div. The status bar at the bottom shows 'MSG' and 'STATUS'.



5.3.6.2.2.3 Test RB = RB25#13

