



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	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND38	LTE/TM1	5	LCH	RB1#0	22.51	20.71	33	PASS
				RB1#13	22.44	20.64	33	PASS
				RB1#24	22.43	20.63	33	PASS
				RB12#0	21.6	19.8	33	PASS
				RB12#6	21.44	19.64	33	PASS
				RB12#13	21.41	19.61	33	PASS
				RB25#0	21.52	19.72	33	PASS
			MCH	RB1#0	22.54	20.74	33	PASS
				RB1#13	22.54	20.74	33	PASS
				RB1#24	22.46	20.66	33	PASS
				RB12#0	21.69	19.89	33	PASS
				RB12#6	21.62	19.82	33	PASS
				RB12#13	21.47	19.67	33	PASS
				RB25#0	21.69	19.89	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.66	20.86	33	PASS
				RB1#13	22.68	20.88	33	PASS
				RB1#24	22.66	20.86	33	PASS
				RB12#0	21.67	19.87	33	PASS
				RB12#6	21.69	19.89	33	PASS
				RB12#13	21.72	19.92	33	PASS
				RB25#0	21.67	19.87	33	PASS
		10	LCH	RB1#0	22.55	20.75	33	PASS
				RB1#25	22.52	20.72	33	PASS
				RB1#49	22.56	20.76	33	PASS
				RB25#0	21.6	19.8	33	PASS
				RB25#13	21.64	19.84	33	PASS
				RB25#25	21.63	19.83	33	PASS
				RB50#0	21.66	19.86	33	PASS
			MCH	RB1#0	22.68	20.88	33	PASS
				RB1#25	22.55	20.75	33	PASS
				RB1#49	22.64	20.84	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.77	19.97	33	PASS
				RB25#13	21.74	19.94	33	PASS
				RB25#25	21.68	19.88	33	PASS
				RB50#0	21.67	19.87	33	PASS
			HCH	RB1#0	22.49	20.69	33	PASS
				RB1#25	22.71	20.91	33	PASS
				RB1#49	22.51	20.71	33	PASS
				RB25#0	21.63	19.83	33	PASS
				RB25#13	21.61	19.81	33	PASS
				RB25#25	21.74	19.94	33	PASS
				RB50#0	21.63	19.83	33	PASS
		15	LCH	RB1#0	22.66	20.86	33	PASS
				RB1#38	22.44	20.64	33	PASS
				RB1#74	22.4	20.6	33	PASS
				RB38#0	21.66	19.86	33	PASS
				RB38#19	21.67	19.87	33	PASS
				RB38#39	21.57	19.77	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.61	19.81	33	PASS
			MCH	RB1#0	22.68	20.88	33	PASS
				RB1#38	22.38	20.58	33	PASS
				RB1#74	22.45	20.65	33	PASS
				RB38#0	21.75	19.95	33	PASS
				RB38#19	21.73	19.93	33	PASS
				RB38#39	21.63	19.83	33	PASS
				RB75#0	21.68	19.88	33	PASS
			HCH	RB1#0	22.8	21	33	PASS
				RB1#38	22.64	20.84	33	PASS
				RB1#74	22.55	20.75	33	PASS
				RB38#0	21.66	19.86	33	PASS
				RB38#19	21.66	19.86	33	PASS
				RB38#39	21.59	19.79	33	PASS
				RB75#0	21.59	19.79	33	PASS
		20	LCH	RB1#0	22.44	20.64	33	PASS
				RB1#50	22.54	20.74	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.43	20.63	33	PASS
				RB50#0	21.71	19.91	33	PASS
				RB50#25	21.7	19.9	33	PASS
				RB50#50	21.71	19.91	33	PASS
				RB100#0	21.64	19.84	33	PASS
			MCH	RB1#0	22.44	20.64	33	PASS
				RB1#50	22.7	20.9	33	PASS
				RB1#99	22.31	20.51	33	PASS
				RB50#0	21.76	19.96	33	PASS
				RB50#25	21.7	19.9	33	PASS
				RB50#50	21.63	19.83	33	PASS
				RB100#0	21.69	19.89	33	PASS
			HCH	RB1#0	22.67	20.87	33	PASS
				RB1#50	22.84	21.04	33	PASS
				RB1#99	22.79	20.99	33	PASS
				RB50#0	21.74	19.94	33	PASS
				RB50#25	21.63	19.83	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.67	19.87	33	PASS
				RB100#0	21.67	19.87	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.46	19.66	33	PASS
				RB1#13	21.39	19.59	33	PASS
				RB1#24	20.86	19.06	33	PASS
				RB12#0	20.51	18.71	33	PASS
				RB12#6	20.34	18.54	33	PASS
				RB12#13	20.32	18.52	33	PASS
				RB25#0	20.54	18.74	33	PASS
			MCH	RB1#0	21.56	19.76	33	PASS
				RB1#13	21.5	19.7	33	PASS
				RB1#24	20.9	19.1	33	PASS
				RB12#0	20.52	18.72	33	PASS
				RB12#6	20.8	19	33	PASS
				RB12#13	20.8	19	33	PASS
				RB25#0	20.73	18.93	33	PASS
			HCH	RB1#0	21.97	20.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.81	20.01	33	PASS
				RB1#24	21.75	19.95	33	PASS
				RB12#0	20.7	18.9	33	PASS
				RB12#6	20.71	18.91	33	PASS
				RB12#13	20.64	18.84	33	PASS
				RB25#0	20.69	18.89	33	PASS
		10	LCH	RB1#0	21.72	19.92	33	PASS
				RB1#25	22.28	20.48	33	PASS
				RB1#49	21.64	19.84	33	PASS
				RB25#0	20.45	18.65	33	PASS
				RB25#13	20.75	18.95	33	PASS
				RB25#25	20.47	18.67	33	PASS
				RB50#0	20.69	18.89	33	PASS
			MCH	RB1#0	21.72	19.92	33	PASS
				RB1#25	22.31	20.51	33	PASS
				RB1#49	21.69	19.89	33	PASS
				RB25#0	20.62	18.82	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.76	18.96	33	PASS
				RB25#25	20.71	18.91	33	PASS
				RB50#0	20.71	18.91	33	PASS
			HCH	RB1#0	21.61	19.81	33	PASS
				RB1#25	22.29	20.49	33	PASS
				RB1#49	21.61	19.81	33	PASS
				RB25#0	20.72	18.92	33	PASS
				RB25#13	20.7	18.9	33	PASS
				RB25#25	20.73	18.93	33	PASS
				RB50#0	20.69	18.89	33	PASS
		15	LCH	RB1#0	21.84	20.04	33	PASS
				RB1#38	21.66	19.86	33	PASS
				RB1#74	21.68	19.88	33	PASS
				RB38#0	20.69	18.89	33	PASS
				RB38#19	20.61	18.81	33	PASS
				RB38#39	20.5	18.7	33	PASS
				RB75#0	20.58	18.78	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.81	20.01	33	PASS
				RB1#38	21.59	19.79	33	PASS
				RB1#74	21.65	19.85	33	PASS
				RB38#0	20.61	18.81	33	PASS
				RB38#19	20.67	18.87	33	PASS
				RB38#39	20.56	18.76	33	PASS
				RB75#0	20.72	18.92	33	PASS
			HCH	RB1#0	21.84	20.04	33	PASS
				RB1#38	21.7	19.9	33	PASS
				RB1#74	21.75	19.95	33	PASS
				RB38#0	20.68	18.88	33	PASS
				RB38#19	20.7	18.9	33	PASS
				RB38#39	20.61	18.81	33	PASS
				RB75#0	20.62	18.82	33	PASS
		20	LCH	RB1#0	21.69	19.89	33	PASS
				RB1#50	22.18	20.38	33	PASS
				RB1#99	21.64	19.84	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.66	18.86	33	PASS
				RB50#25	20.66	18.86	33	PASS
				RB50#50	20.66	18.86	33	PASS
				RB100#0	20.61	18.81	33	PASS
			MCH	RB1#0	21.77	19.97	33	PASS
				RB1#50	21.8	20	33	PASS
				RB1#99	21.81	20.01	33	PASS
				RB50#0	20.68	18.88	33	PASS
				RB50#25	20.75	18.95	33	PASS
				RB50#50	20.69	18.89	33	PASS
				RB100#0	20.7	18.9	33	PASS
			HCH	RB1#0	21.14	19.34	33	PASS
				RB1#50	21.55	19.75	33	PASS
				RB1#99	21.09	19.29	33	PASS
				RB50#0	20.75	18.95	33	PASS
				RB50#25	20.71	18.91	33	PASS
				RB50#50	20.66	18.86	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.6	18.8	33	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2:

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

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

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

SET Sweep time=auto-couple.

Detector:RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND38	LTE/TM1	5	LCH	RB1#0	3.96	13	PASS
				RB1#13	3.83	13	PASS
				RB1#24	3.94	13	PASS
				RB12#0	4.7	13	PASS
				RB12#6	4.63	13	PASS
				RB12#13	4.71	13	PASS
				RB25#0	5.17	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#13	3.63	13	PASS
				RB1#24	3.72	13	PASS
				RB12#0	4.52	13	PASS
				RB12#6	4.39	13	PASS
				RB12#13	4.55	13	PASS
				RB25#0	5.05	13	PASS
			HCH	RB1#0	3.5	13	PASS
				RB1#13	3.34	13	PASS
				RB1#24	3.51	13	PASS
				RB12#0	4.41	13	PASS
				RB12#6	4.21	13	PASS
				RB12#13	4.35	13	PASS
				RB25#0	4.77	13	PASS
		10	LCH	RB1#0	4.04	13	PASS
				RB1#25	3.91	13	PASS
				RB1#49	3.95	13	PASS
				RB25#0	4.8	13	PASS
				RB25#13	4.63	13	PASS
				RB25#25	4.7	13	PASS
				RB50#0	5.31	13	PASS
			MCH	RB1#0	3.81	13	PASS
				RB1#25	3.7	13	PASS
				RB1#49	3.73	13	PASS
				RB25#0	4.56	13	PASS
				RB25#13	4.43	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	4.53	13	PASS
				RB50#0	5.09	13	PASS
			HCH	RB1#0	3.58	13	PASS
				RB1#25	3.31	13	PASS
				RB1#49	3.47	13	PASS
				RB25#0	4.4	13	PASS
				RB25#13	4.3	13	PASS
				RB25#25	4.34	13	PASS
				RB50#0	5	13	PASS
		15	LCH	RB1#0	4.03	13	PASS
				RB1#38	3.97	13	PASS
				RB1#74	3.98	13	PASS
				RB38#0	4.76	13	PASS
				RB38#19	4.66	13	PASS
				RB38#39	4.71	13	PASS
				RB75#0	5.26	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#38	3.81	13	PASS
				RB1#74	3.71	13	PASS
				RB38#0	4.58	13	PASS
				RB38#19	4.47	13	PASS
				RB38#39	4.57	13	PASS
				RB75#0	5.14	13	PASS
			HCH	RB1#0	3.62	13	PASS
				RB1#38	3.44	13	PASS
				RB1#74	3.47	13	PASS
				RB38#0	4.49	13	PASS
				RB38#19	4.39	13	PASS
				RB38#39	4.45	13	PASS
				RB75#0	5.14	13	PASS
		20	LCH	RB1#0	4.07	13	PASS
				RB1#50	3.73	13	PASS
				RB1#99	3.88	13	PASS
				RB50#0	4.73	13	PASS
				RB50#25	4.6	13	PASS
				RB50#50	4.6	13	PASS
				RB100#0	5.19	13	PASS
			MCH	RB1#0	3.91	13	PASS
				RB1#50	3.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	3.82	13	PASS
				RB50#0	4.57	13	PASS
				RB50#25	4.45	13	PASS
				RB50#50	4.48	13	PASS
				RB100#0	5.18	13	PASS
			HCH	RB1#0	3.62	13	PASS
				RB1#50	3.3	13	PASS
				RB1#99	3.4	13	PASS
				RB50#0	4.46	13	PASS
				RB50#25	4.41	13	PASS
				RB50#50	4.43	13	PASS
				RB100#0	5.08	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.29	13	PASS
				RB1#13	4.21	13	PASS
				RB1#24	4.62	13	PASS
				RB12#0	5.58	13	PASS
				RB12#6	5.47	13	PASS
				RB12#13	5.64	13	PASS
				RB25#0	5.95	13	PASS
			MCH	RB1#0	4.06	13	PASS
				RB1#13	4.24	13	PASS
				RB1#24	4.36	13	PASS
				RB12#0	5.43	13	PASS
				RB12#6	5.05	13	PASS
				RB12#13	5.45	13	PASS
				RB25#0	5.79	13	PASS
			HCH	RB1#0	4.68	13	PASS
				RB1#13	4.62	13	PASS
				RB1#24	5.1	13	PASS
				RB12#0	5.17	13	PASS
				RB12#6	5.11	13	PASS
				RB12#13	5.18	13	PASS
				RB25#0	5.61	13	PASS
		10	LCH	RB1#0	4.64	13	PASS
				RB1#25	4.35	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	5.71	13	PASS
				RB25#13	5.6	13	PASS
				RB25#25	5.56	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.35	13	PASS
			MCH	RB1#0	4.39	13	PASS
				RB1#25	4.14	13	PASS
				RB1#49	4.28	13	PASS
				RB25#0	5.42	13	PASS
				RB25#13	5.36	13	PASS
				RB25#25	5.38	13	PASS
				RB50#0	6.01	13	PASS
			HCH	RB1#0	4.19	13	PASS
				RB1#25	3.49	13	PASS
				RB1#49	4.08	13	PASS
				RB25#0	5.39	13	PASS
				RB25#13	5.23	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	6.03	13	PASS
		15	LCH	RB1#0	4.58	13	PASS
				RB1#38	4.5	13	PASS
				RB1#74	4.51	13	PASS
				RB38#0	5.76	13	PASS
				RB38#19	5.62	13	PASS
				RB38#39	5.76	13	PASS
				RB75#0	6.12	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#38	4.39	13	PASS
				RB1#74	4.35	13	PASS
				RB38#0	5.53	13	PASS
				RB38#19	5.44	13	PASS
				RB38#39	5.49	13	PASS
				RB75#0	6.06	13	PASS
			HCH	RB1#0	4.5	13	PASS
				RB1#38	4.24	13	PASS
				RB1#74	4.4	13	PASS
				RB38#0	5.47	13	PASS
				RB38#19	5.39	13	PASS
				RB38#39	5.47	13	PASS
				RB75#0	5.93	13	PASS
		20	LCH	RB1#0	4.9	13	PASS
				RB1#50	4.83	13	PASS
				RB1#99	4.86	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.66	13	PASS
				RB50#25	5.61	13	PASS
				RB50#50	5.57	13	PASS
				RB100#0	6.19	13	PASS
			MCH	RB1#0	4.89	13	PASS
				RB1#50	4.41	13	PASS
				RB1#99	4.77	13	PASS
				RB50#0	5.51	13	PASS
				RB50#25	5.43	13	PASS
				RB50#50	5.5	13	PASS
				RB100#0	6.01	13	PASS
			HCH	RB1#0	5.06	13	PASS
				RB1#50	4.72	13	PASS
				RB1#99	5	13	PASS
				RB50#0	5.4	13	PASS
				RB50#25	5.31	13	PASS
				RB50#50	5.39	13	PASS
				RB100#0	6.15	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

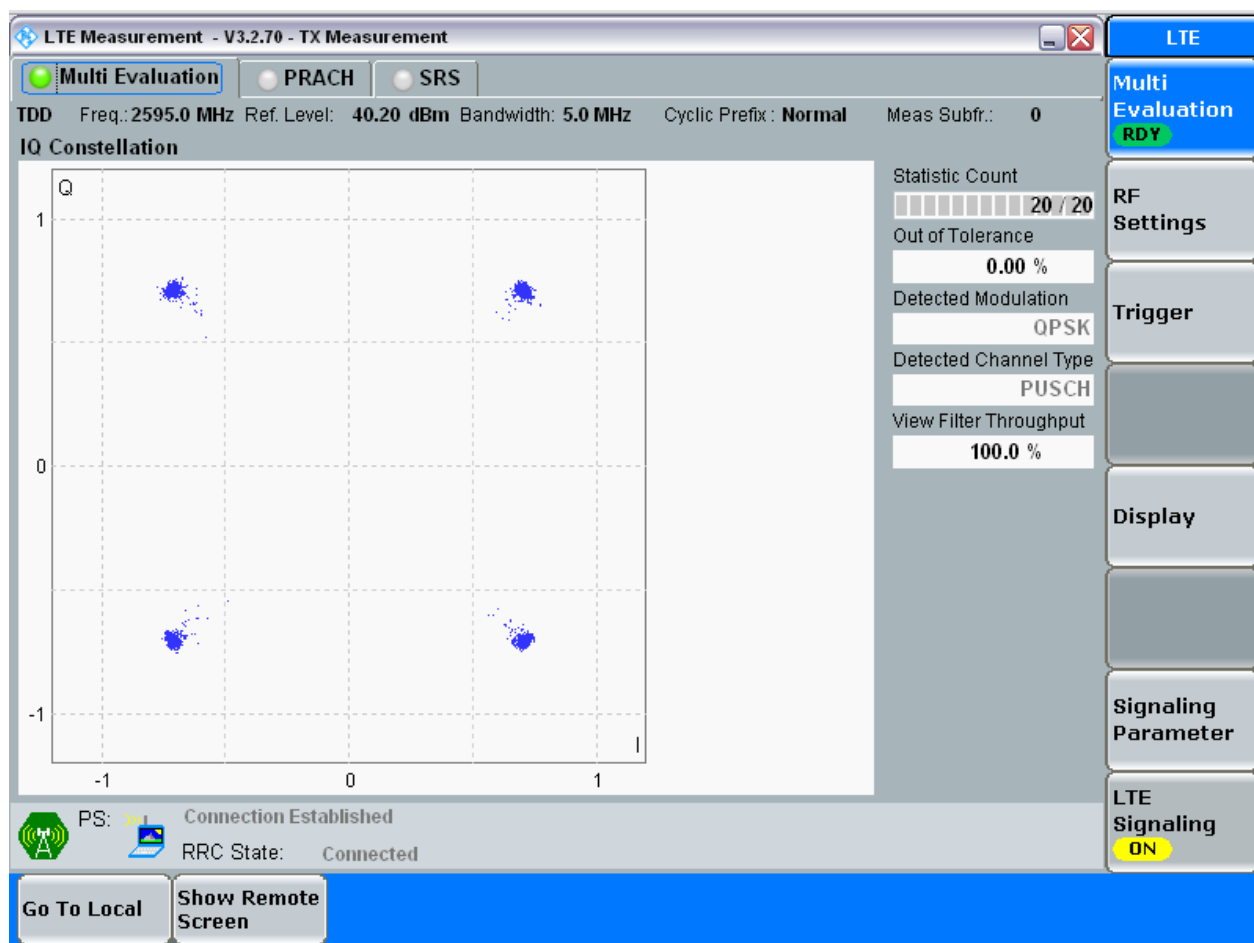
3.1.1 Test Band = BAND38

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

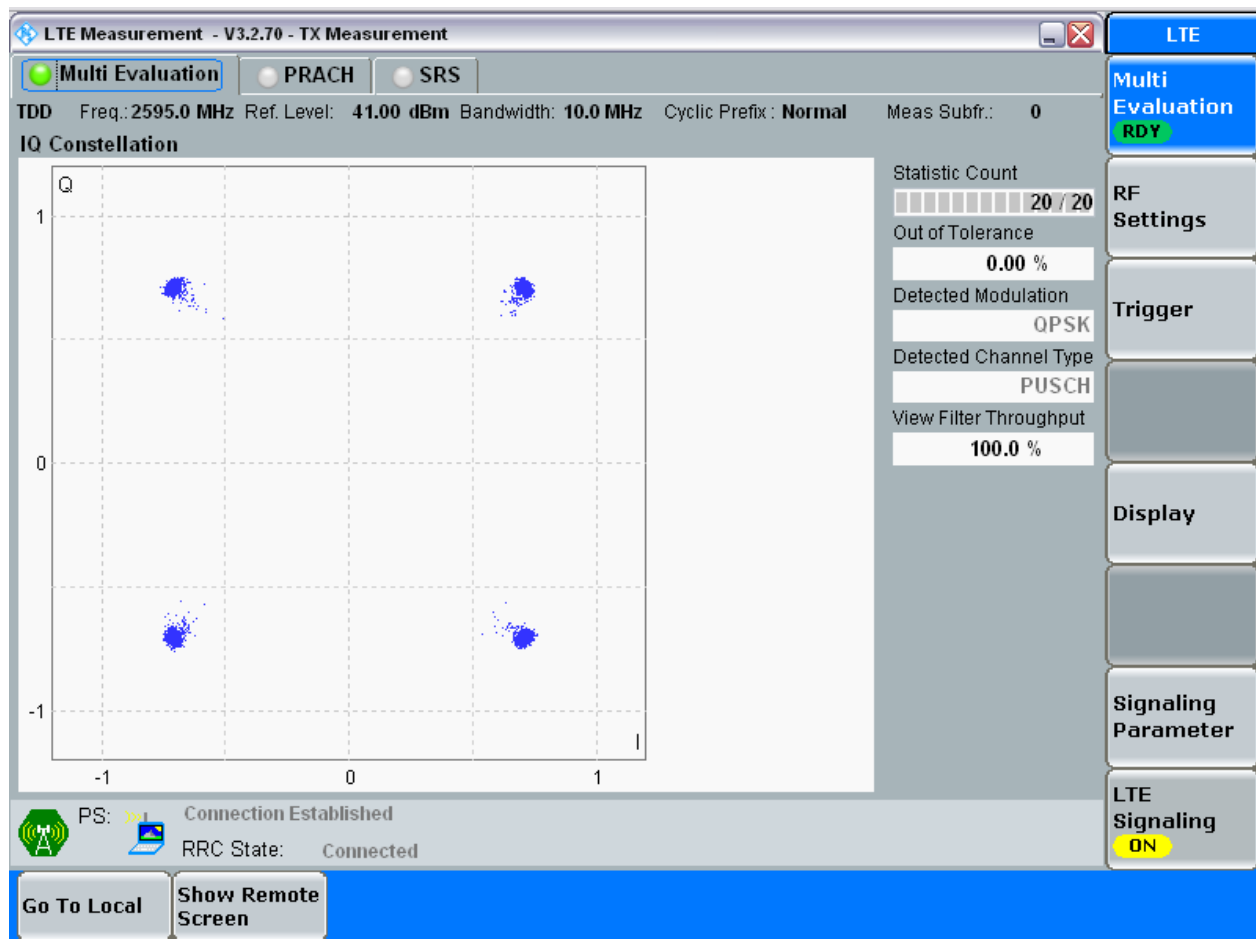
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

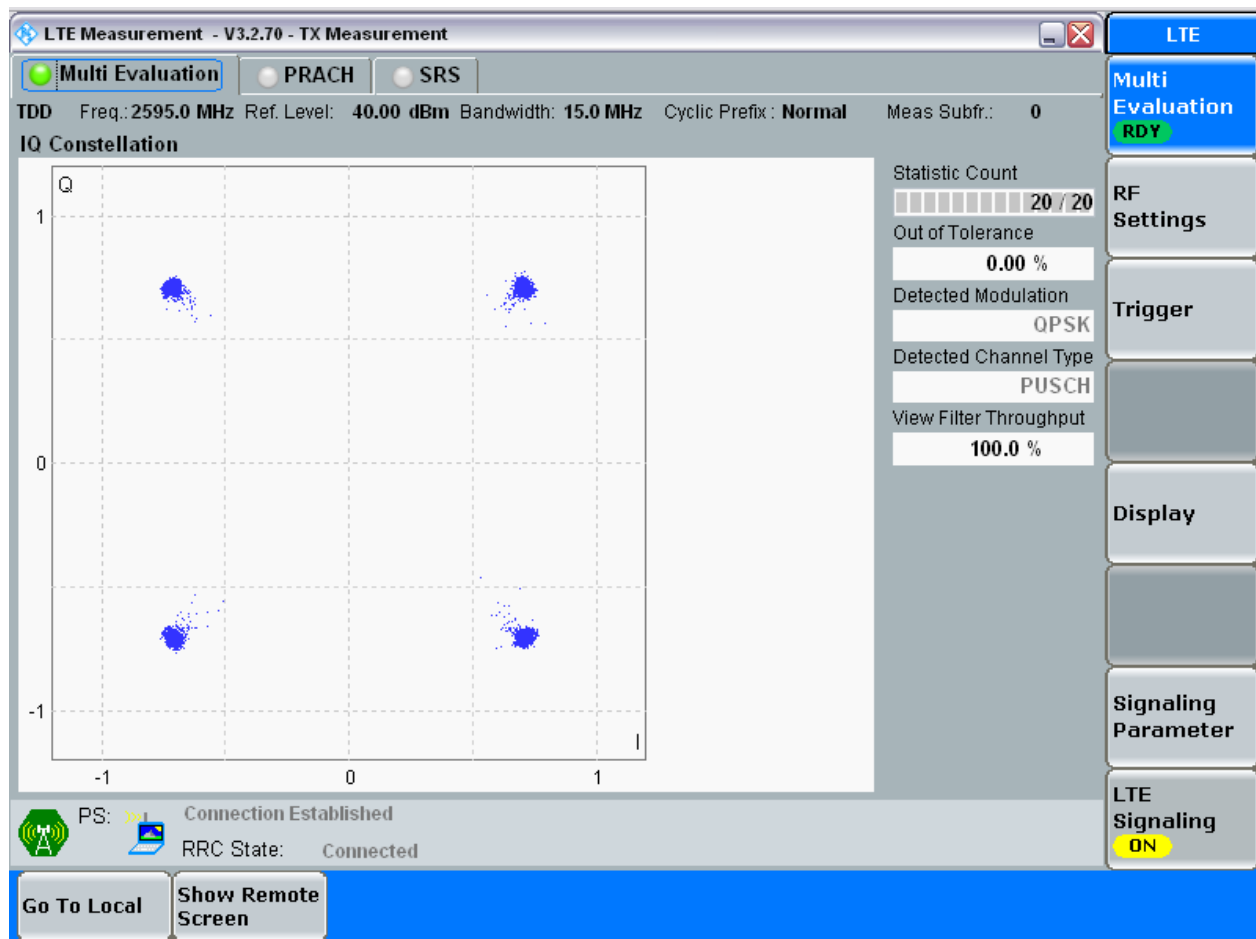
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

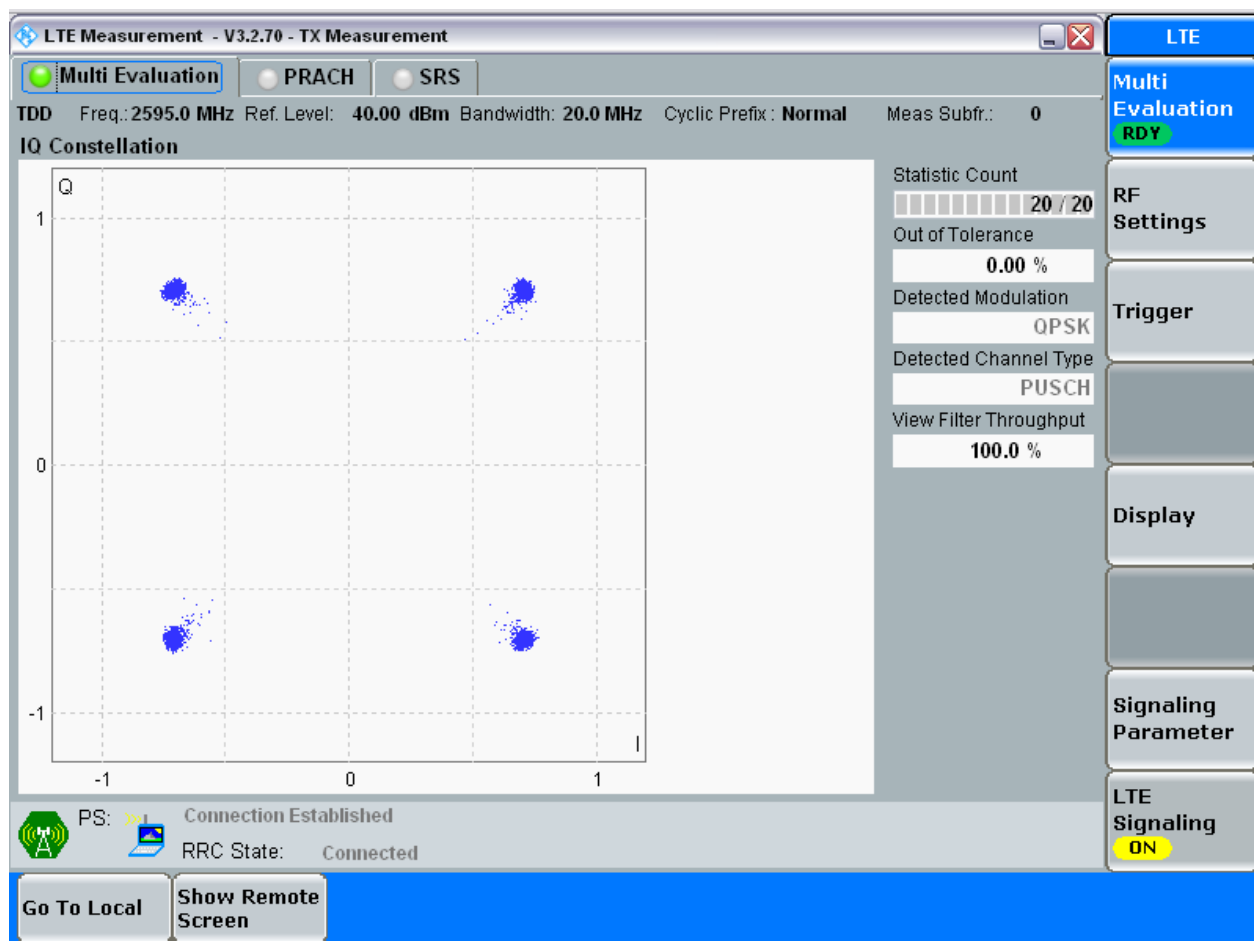
3.1.1.1.3.1.1 Test RB = RB75#0



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

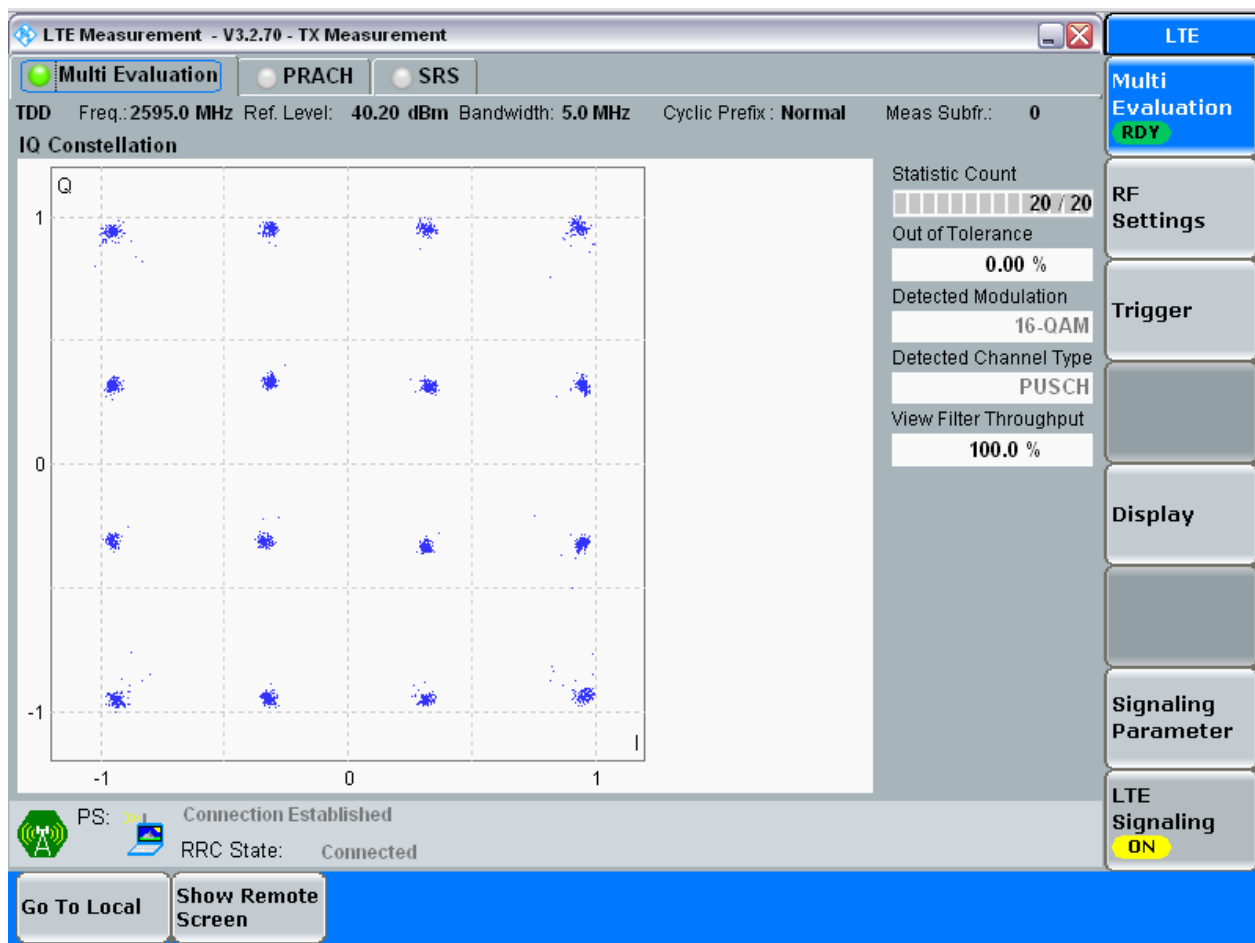


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

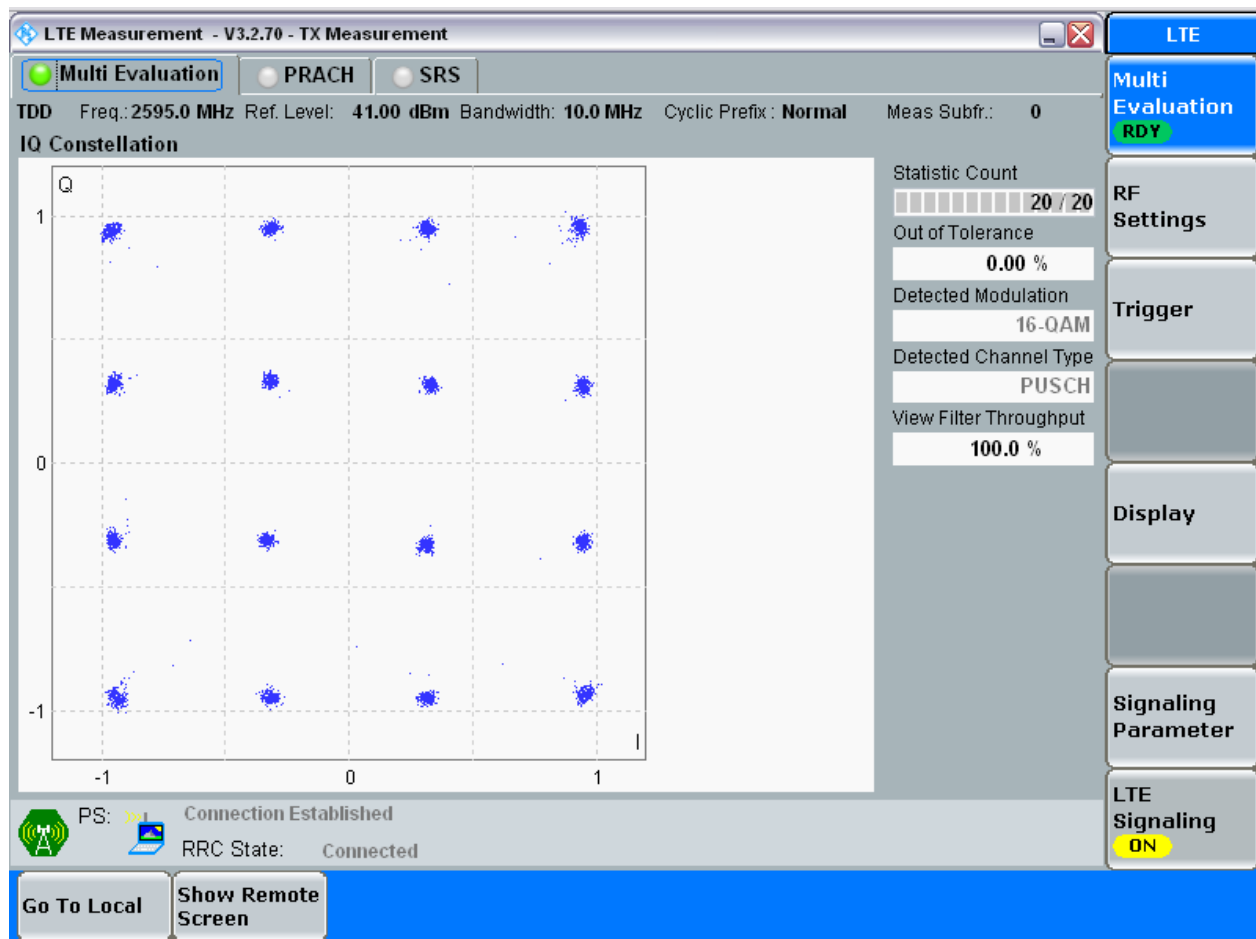
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

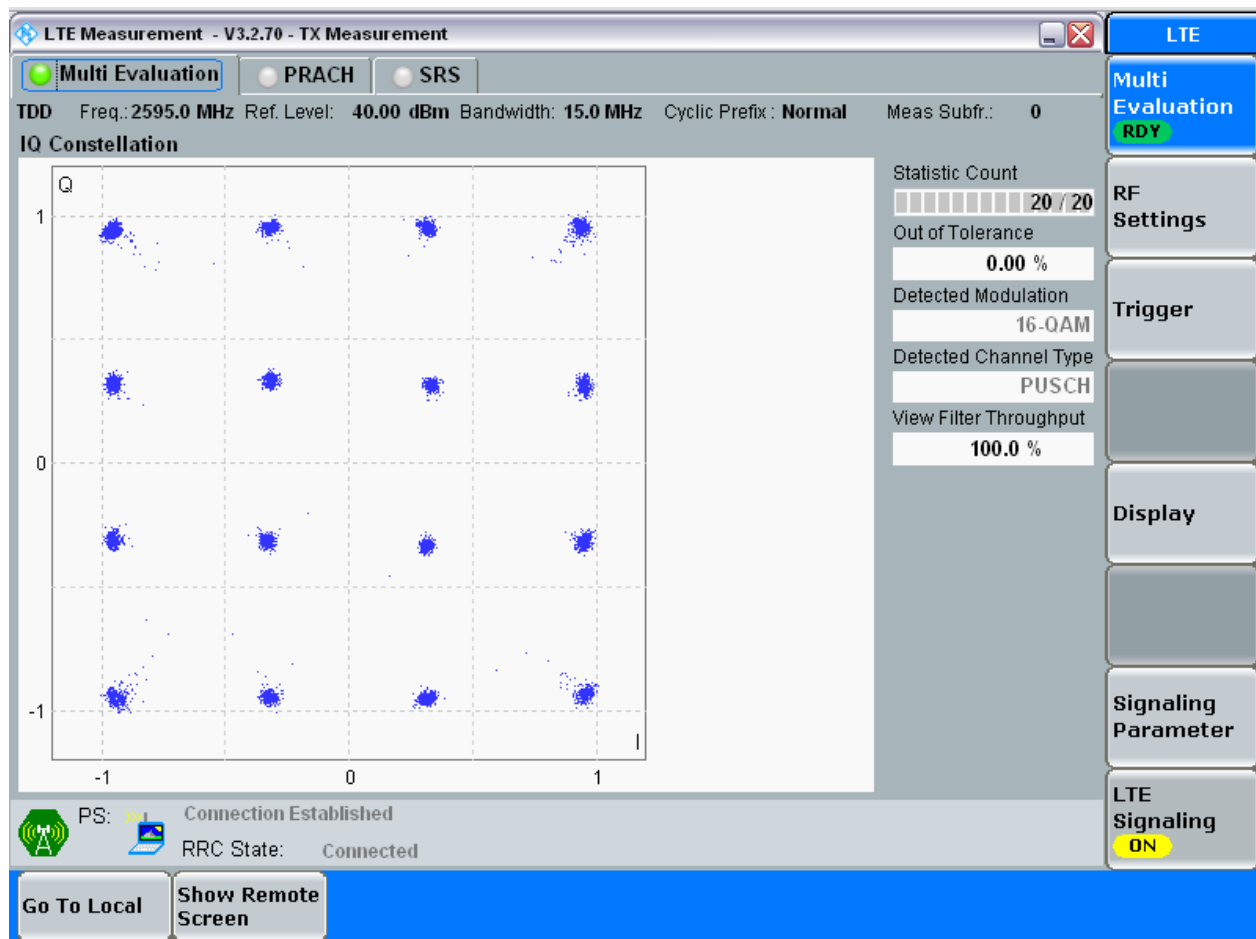
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

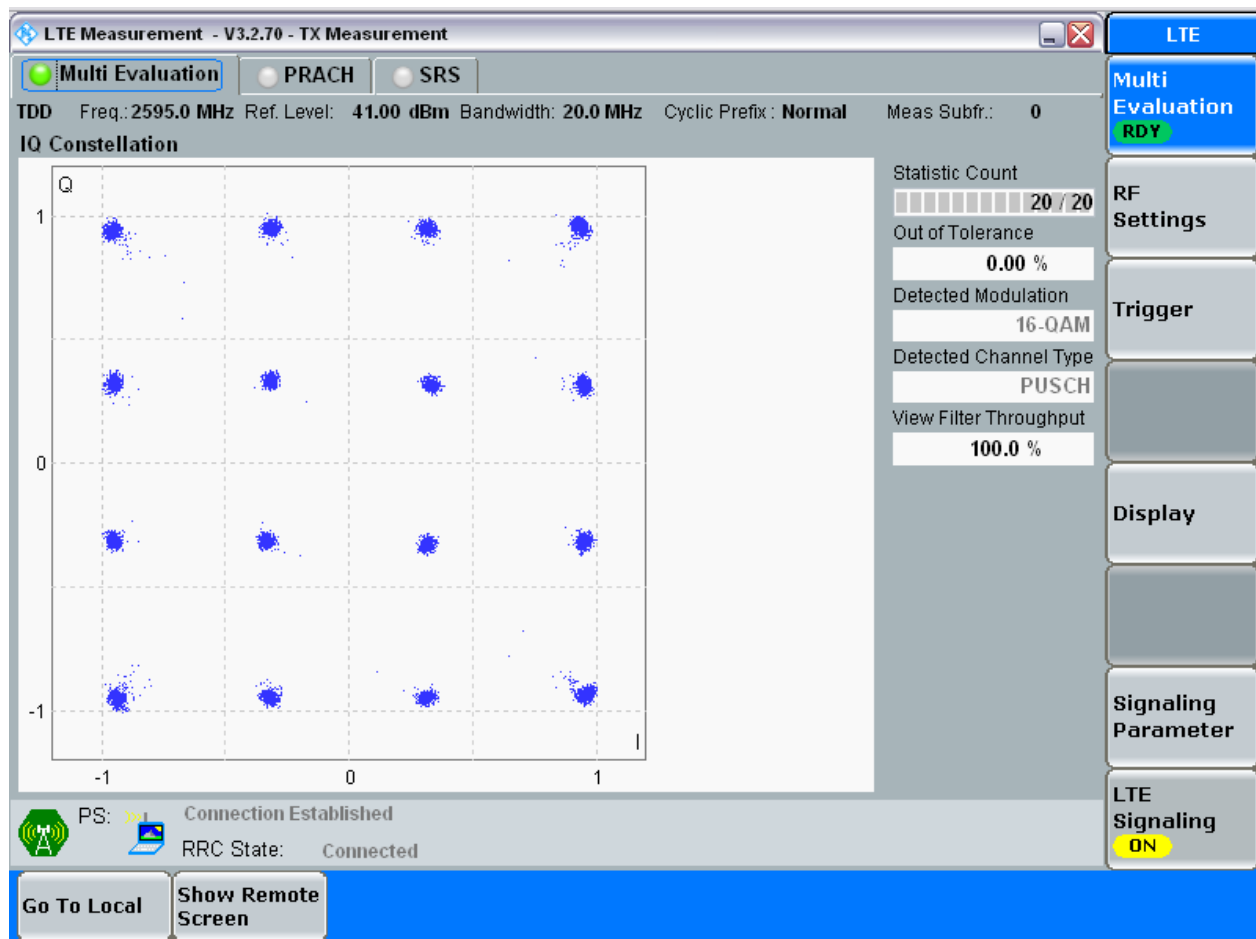
3.1.1.2.3.1.1 Test RB = RB75#0



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
BAND38	LTE/TM1	5	LCH	RB25#0	4.51	4.98	Pass
			MCH	RB25#0	4.49	4.97	Pass
			HCH	RB25#0	4.50	5.12	Pass
		10	LCH	RB50#0	8.97	10.39	Pass
			MCH	RB50#0	8.97	10.01	Pass
			HCH	RB50#0	8.97	10.51	Pass
		15	LCH	RB75#0	13.44	14.83	Pass
			MCH	RB75#0	13.46	14.81	Pass
			HCH	RB75#0	13.46	15.10	Pass
		20	LCH	RB100#0	17.93	19.59	Pass
			MCH	RB100#0	17.94	19.74	Pass
			HCH	RB100#0	17.90	20.85	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	5.32	Pass
			MCH	RB25#0	4.50	5.29	Pass
			HCH	RB25#0	4.50	5.24	Pass
		10	LCH	RB50#0	8.93	10.21	Pass
			MCH	RB50#0	8.92	10.18	Pass
			HCH	RB50#0	8.96	9.87	Pass
		15	LCH	RB75#0	13.44	15.44	Pass
			MCH	RB75#0	13.43	15.28	Pass
			HCH	RB75#0	13.46	15.51	Pass
		20	LCH	RB100#0	17.95	22.17	Pass
			MCH	RB100#0	17.93	22.53	Pass
			HCH	RB100#0	17.88	19.74	Pass



Part II - Test Plots

4.1 For LTE

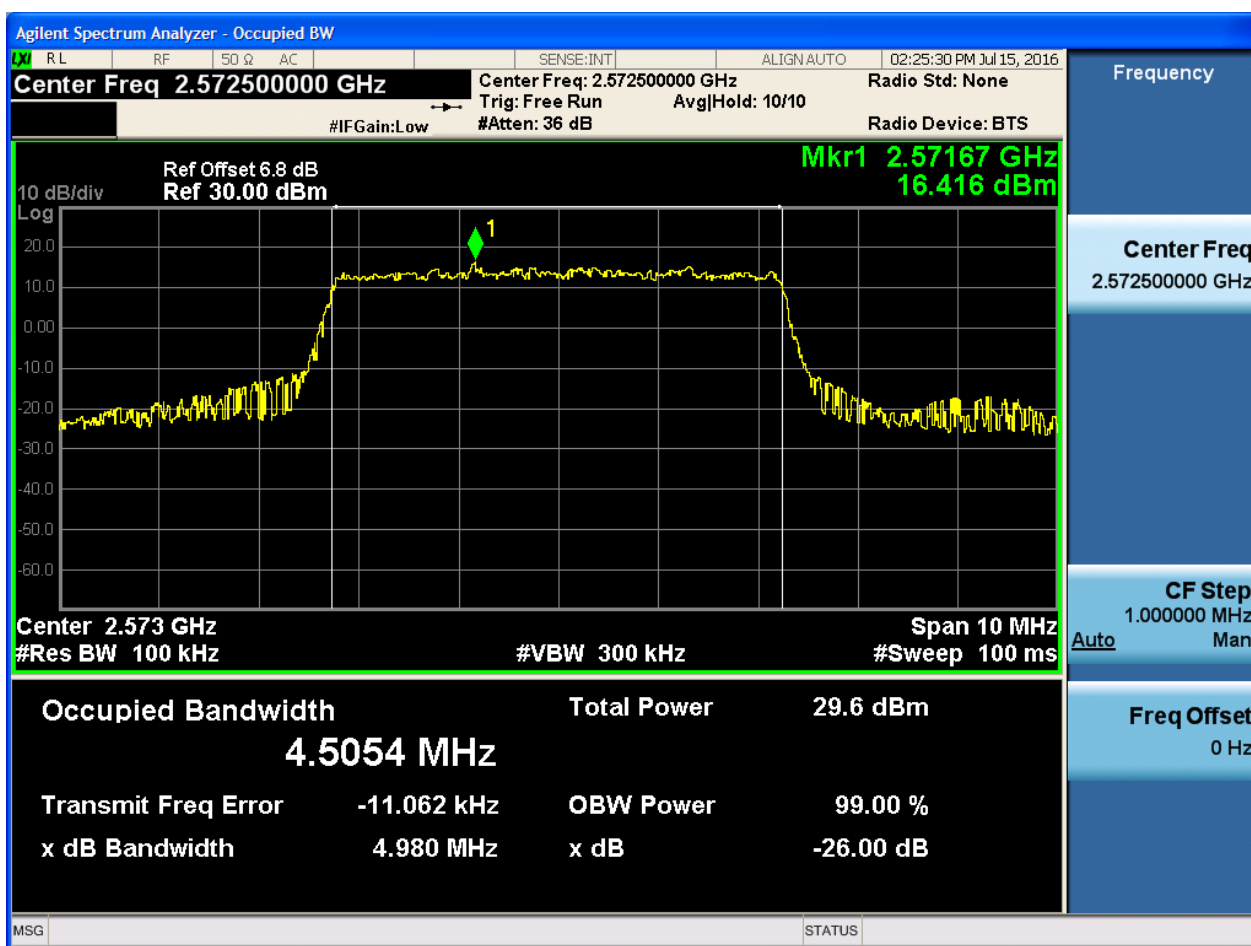
4.1.1 Test Band = BAND38

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

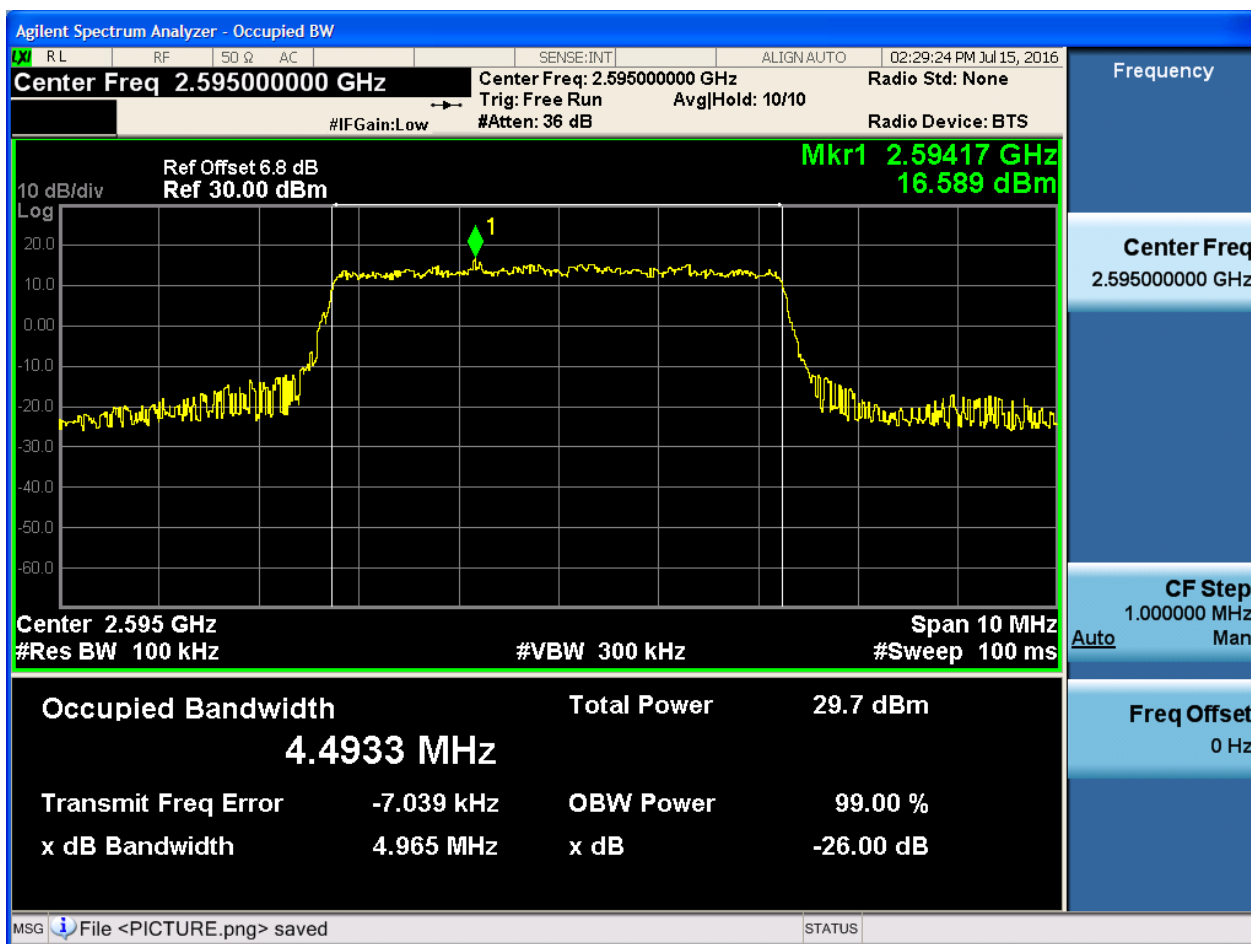
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

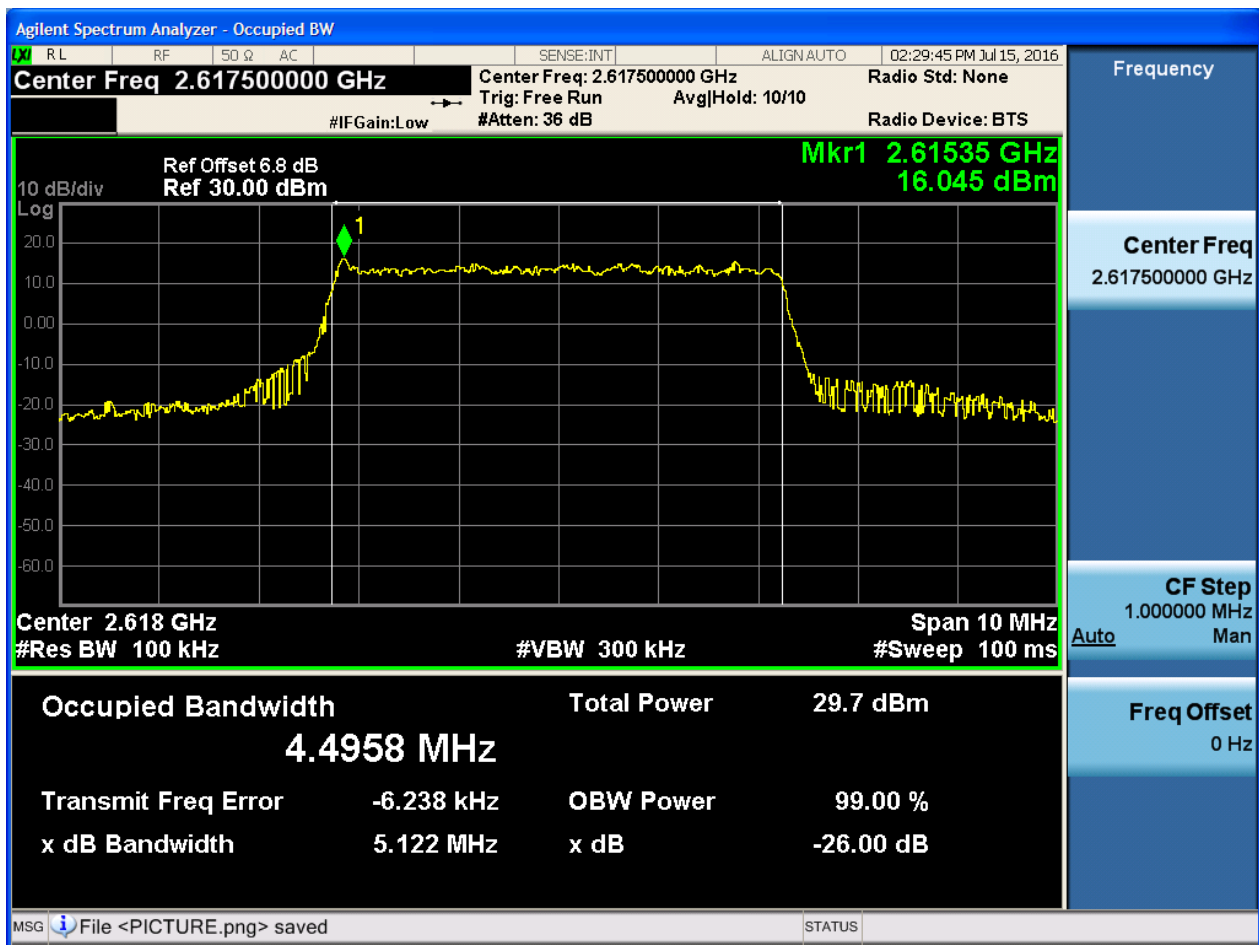
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

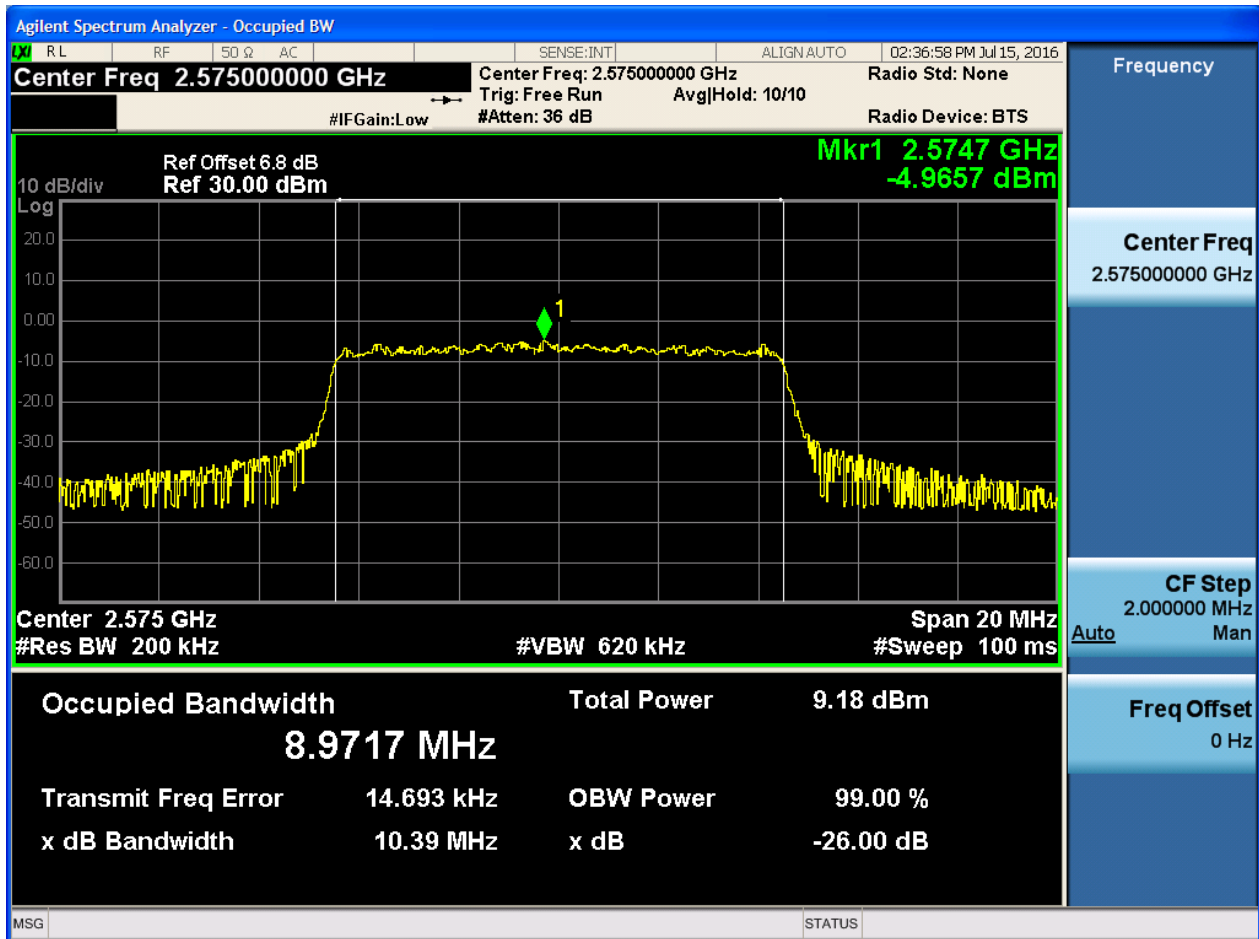




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

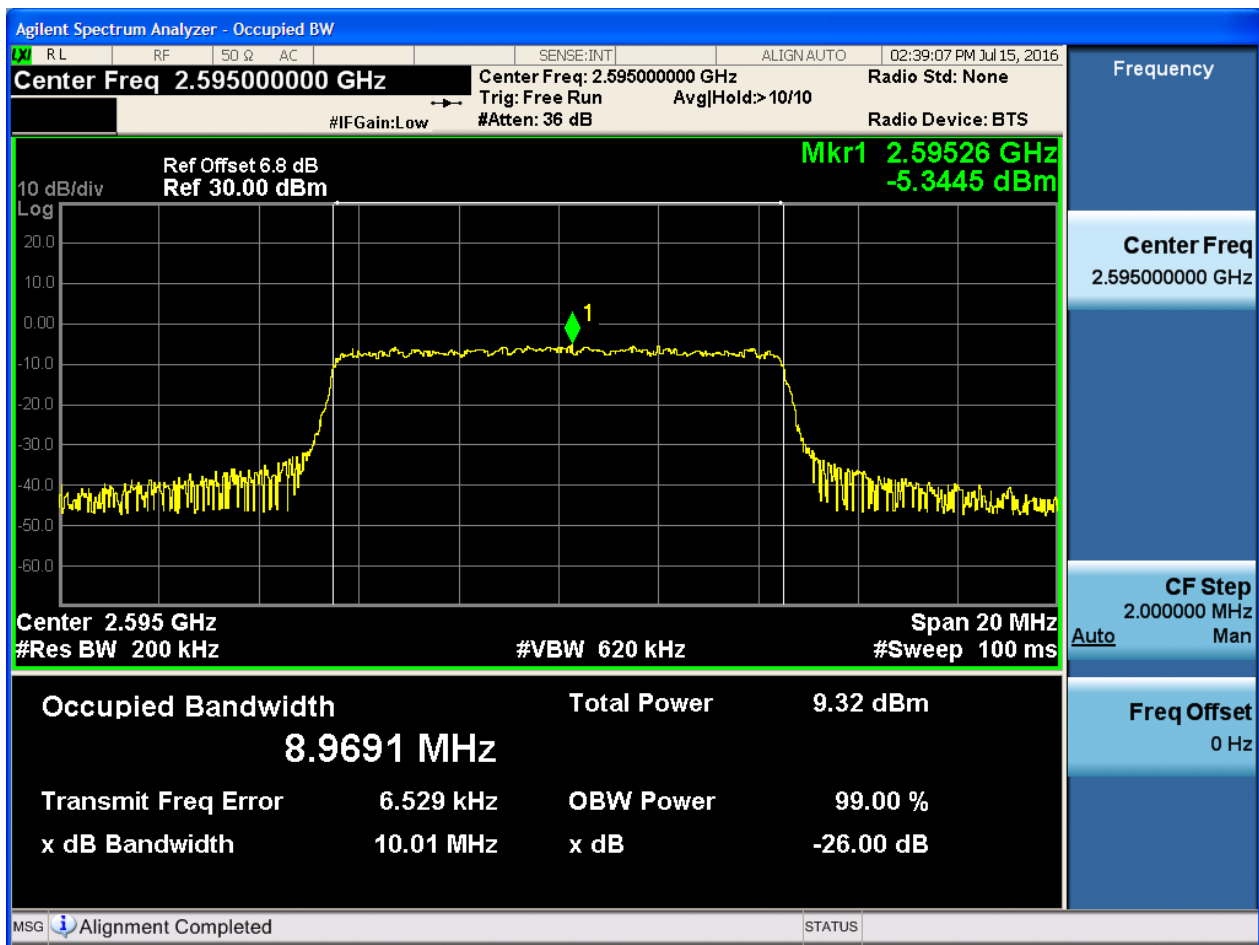
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

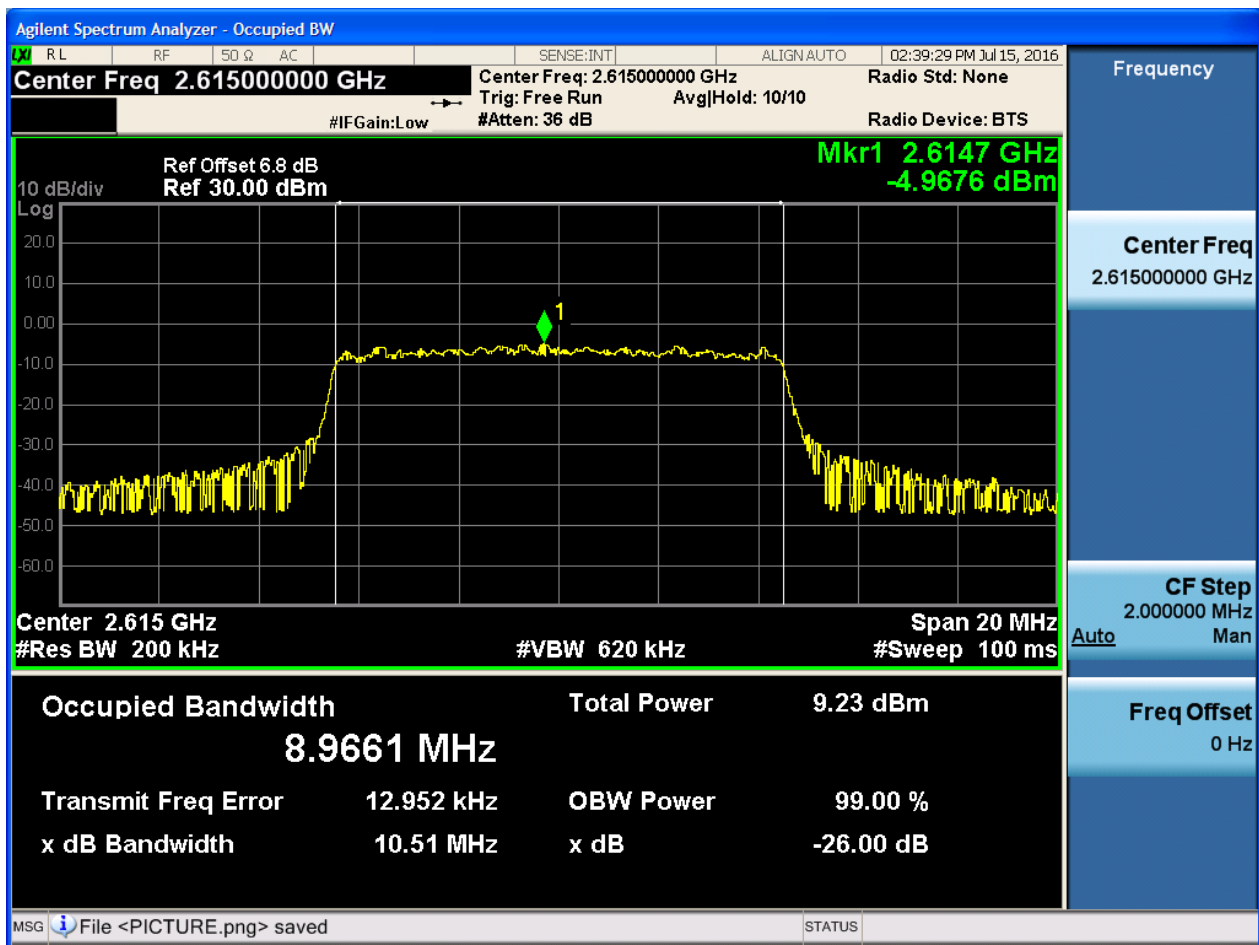
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

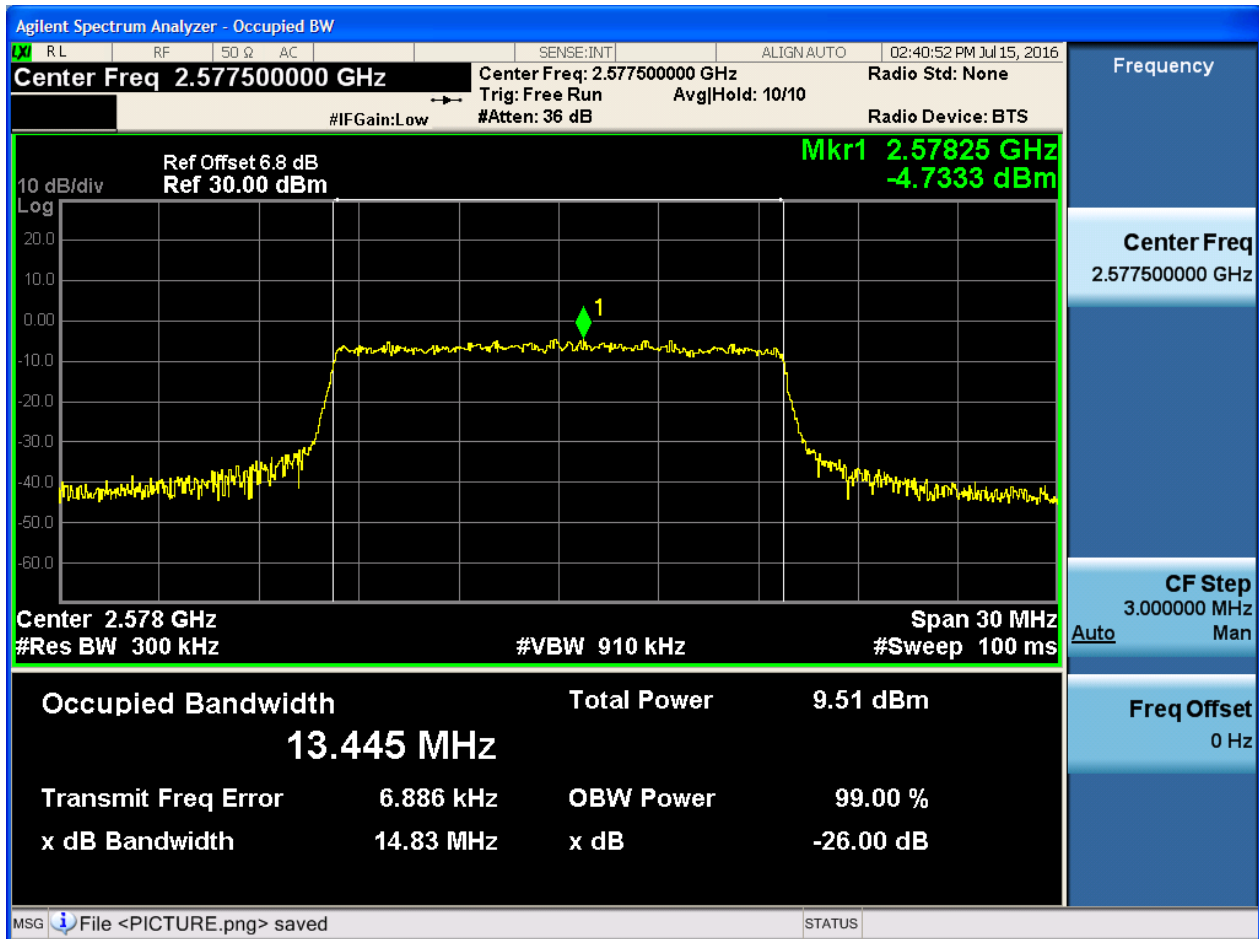




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

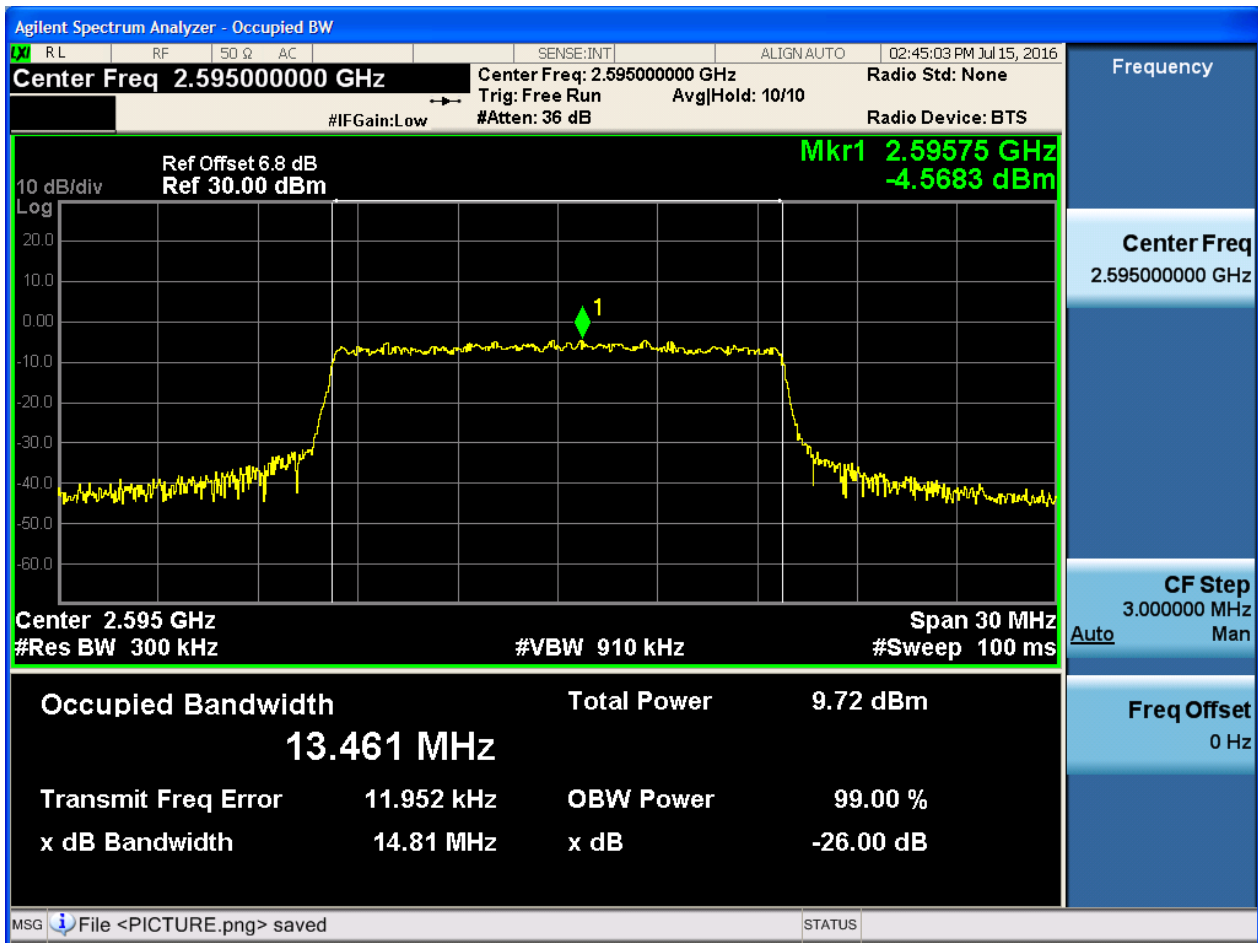
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

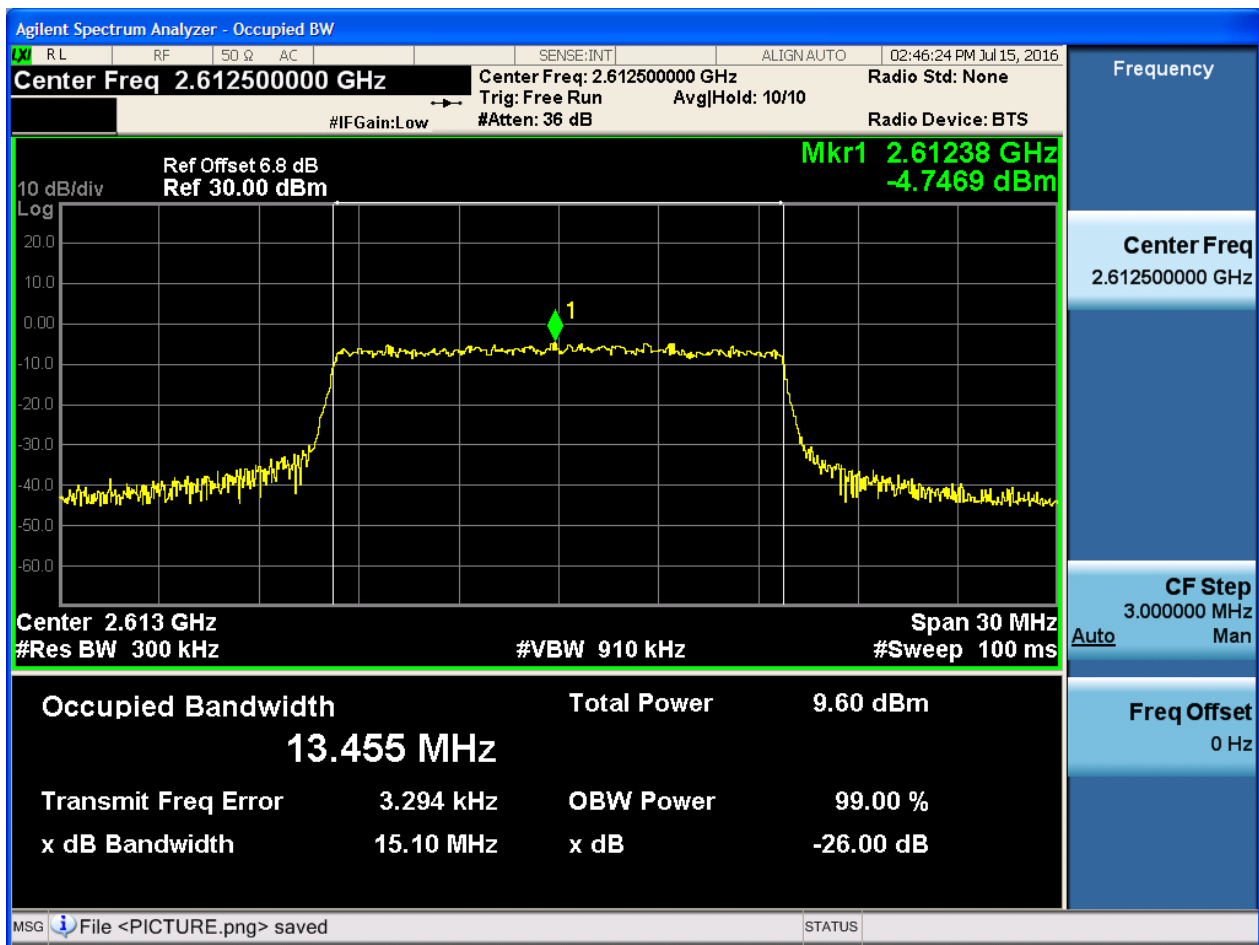
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

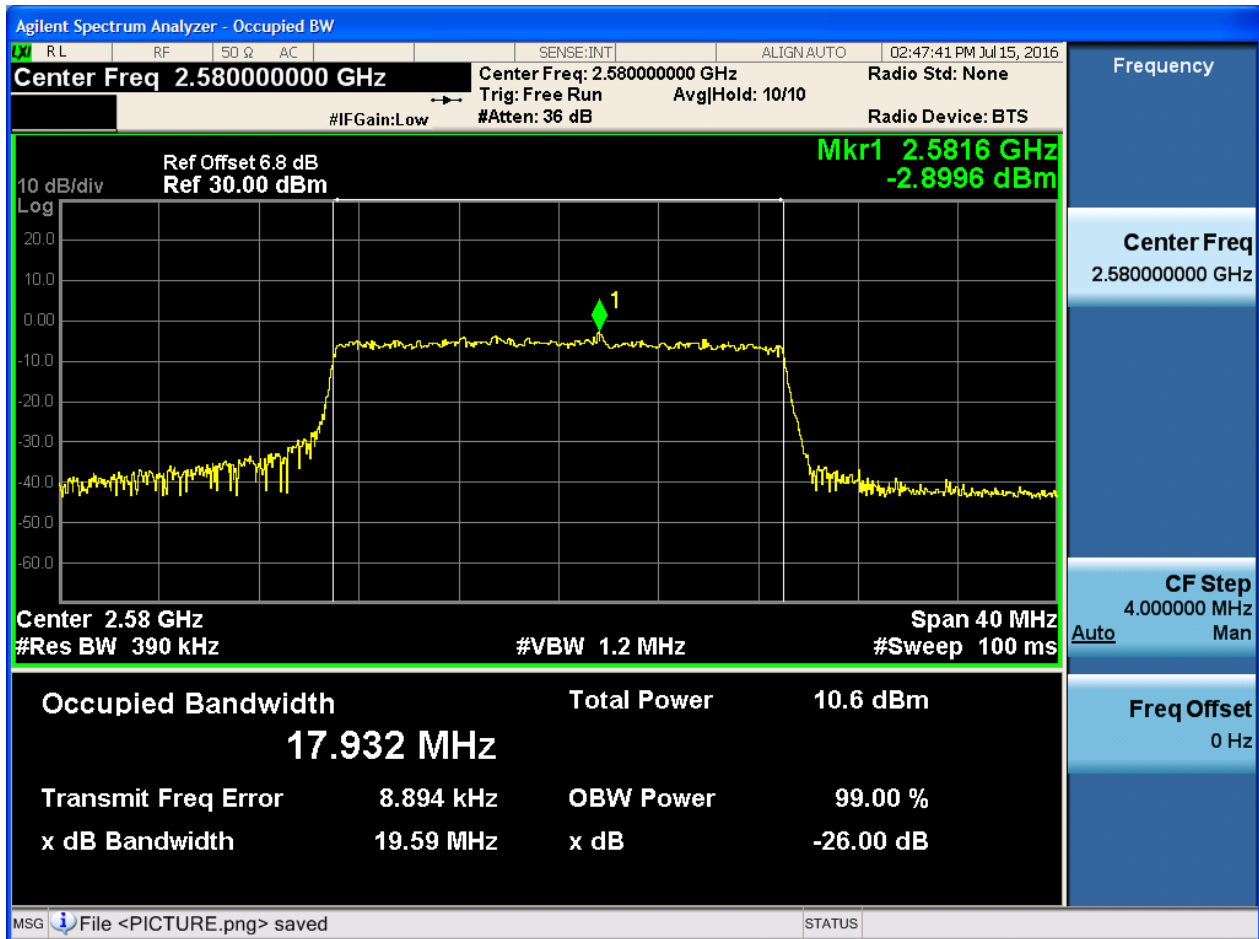


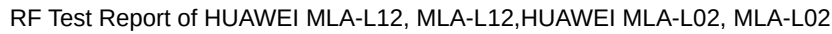


4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



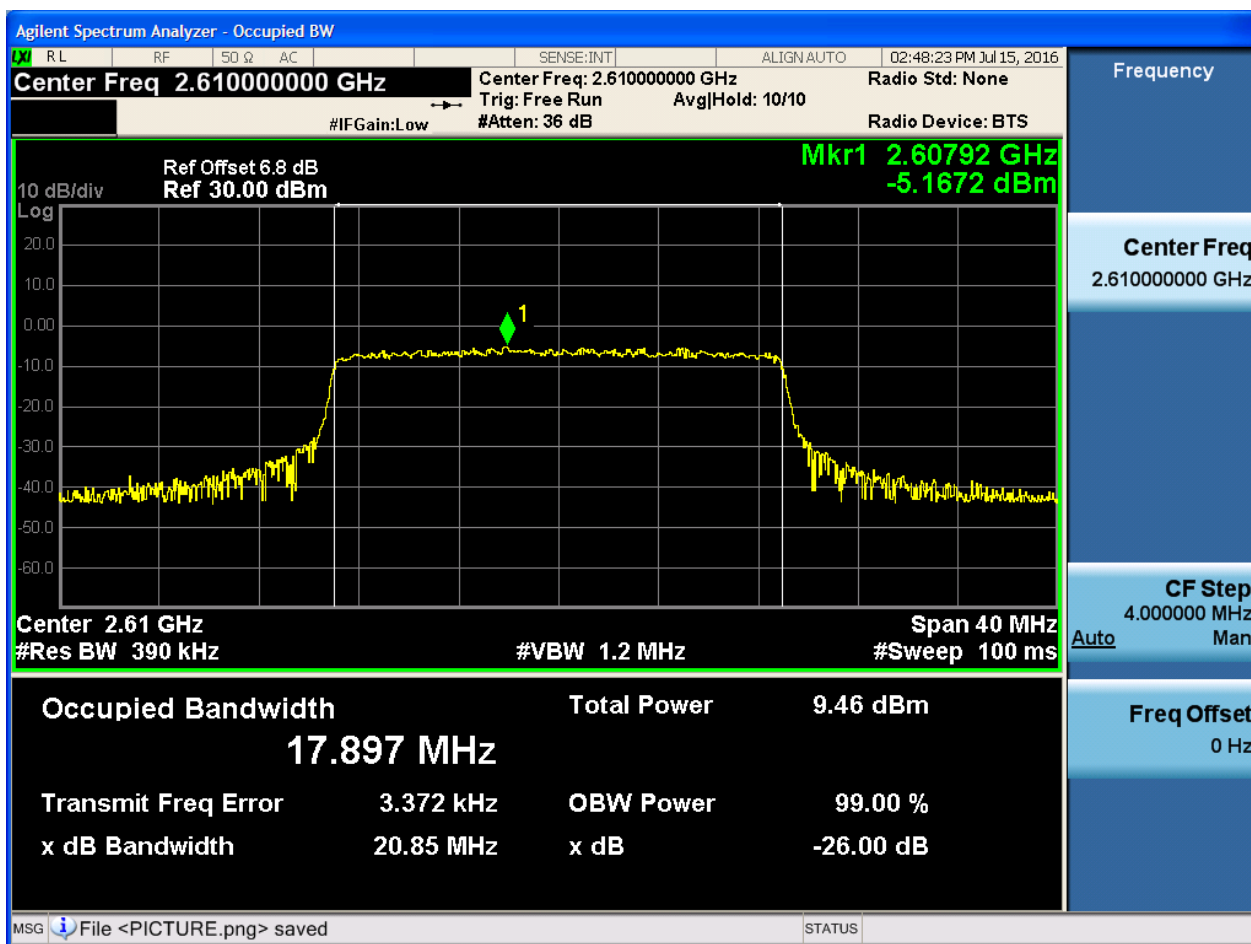


4.1.1.1.4.2.1 Test RB = RB100#0



4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



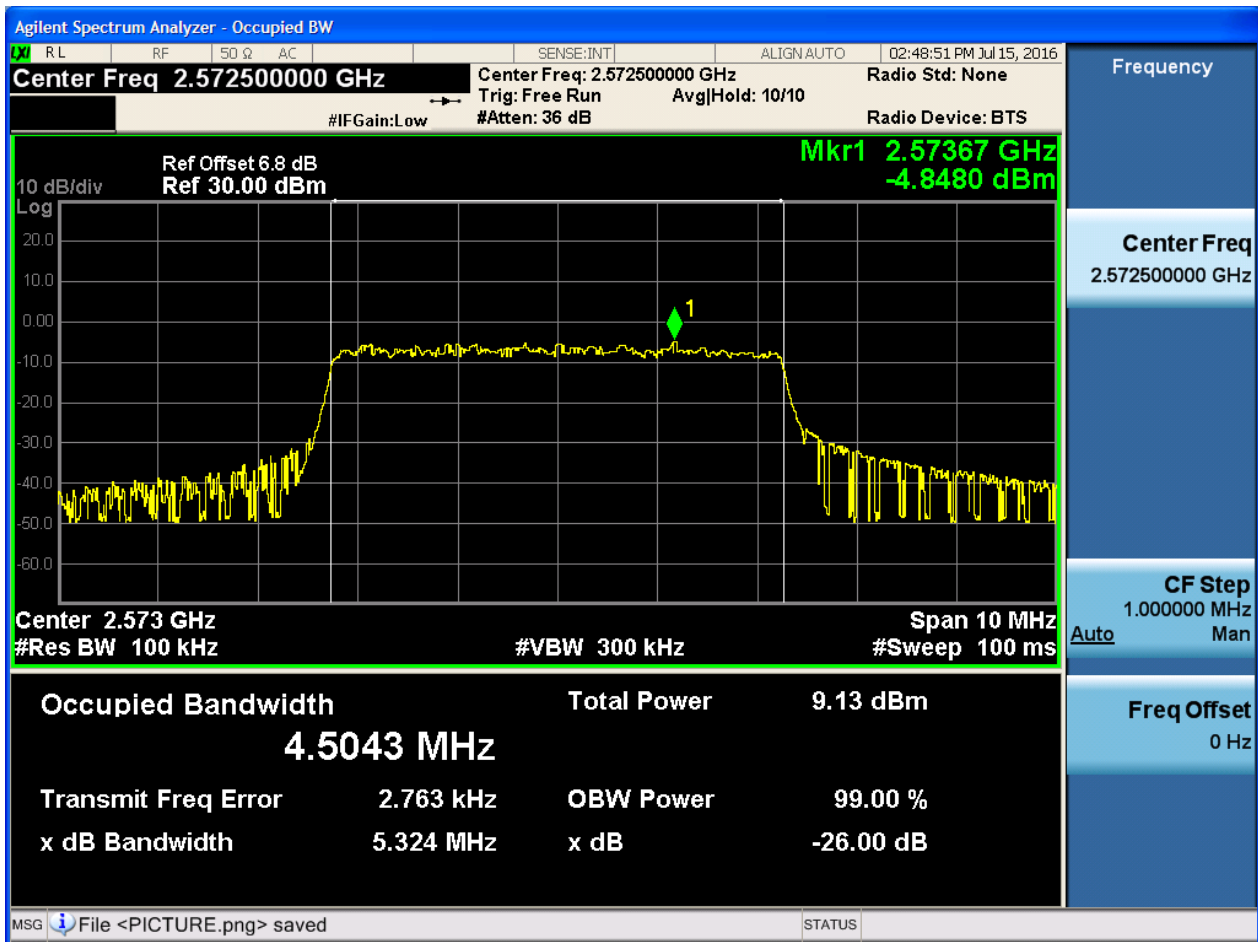


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

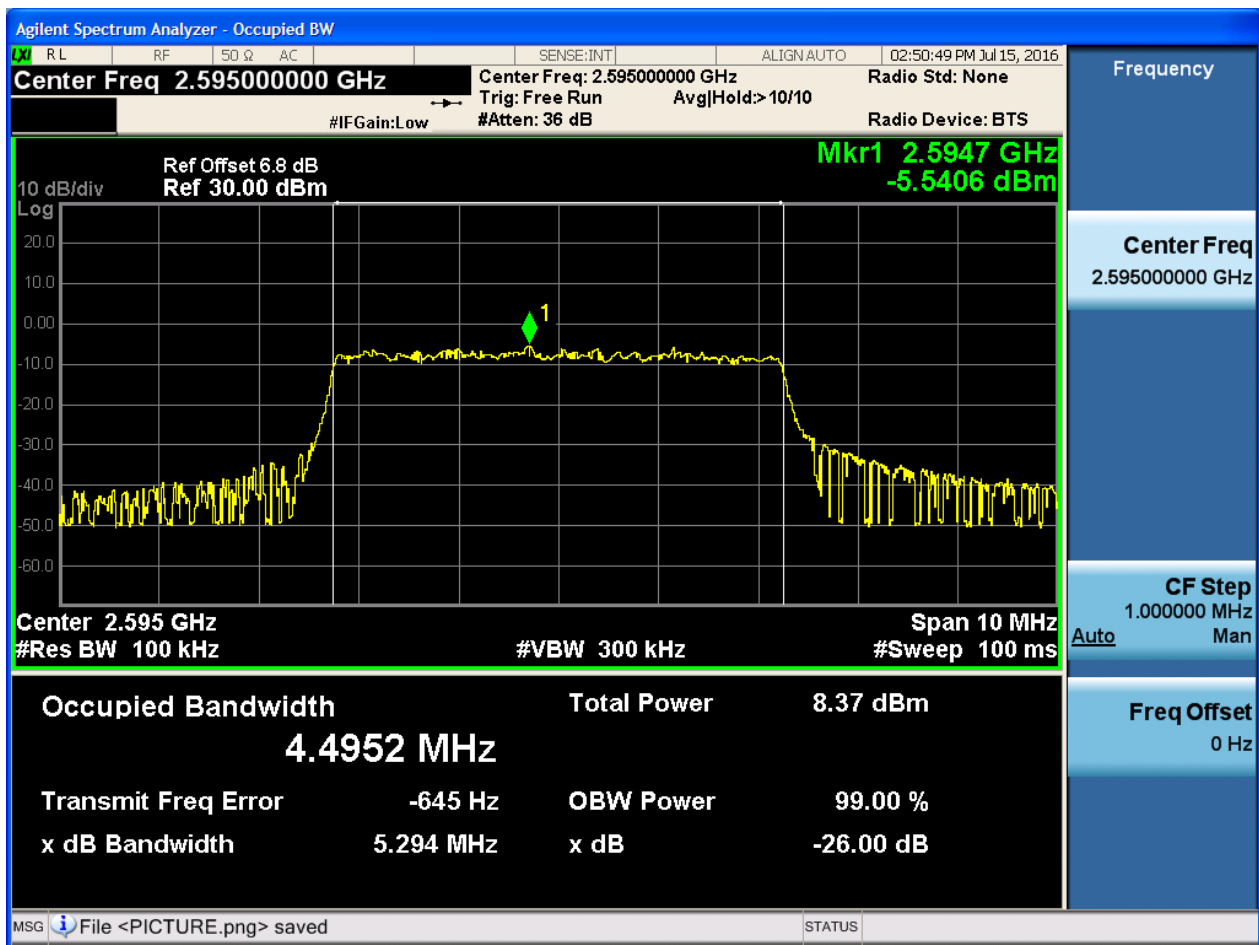
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

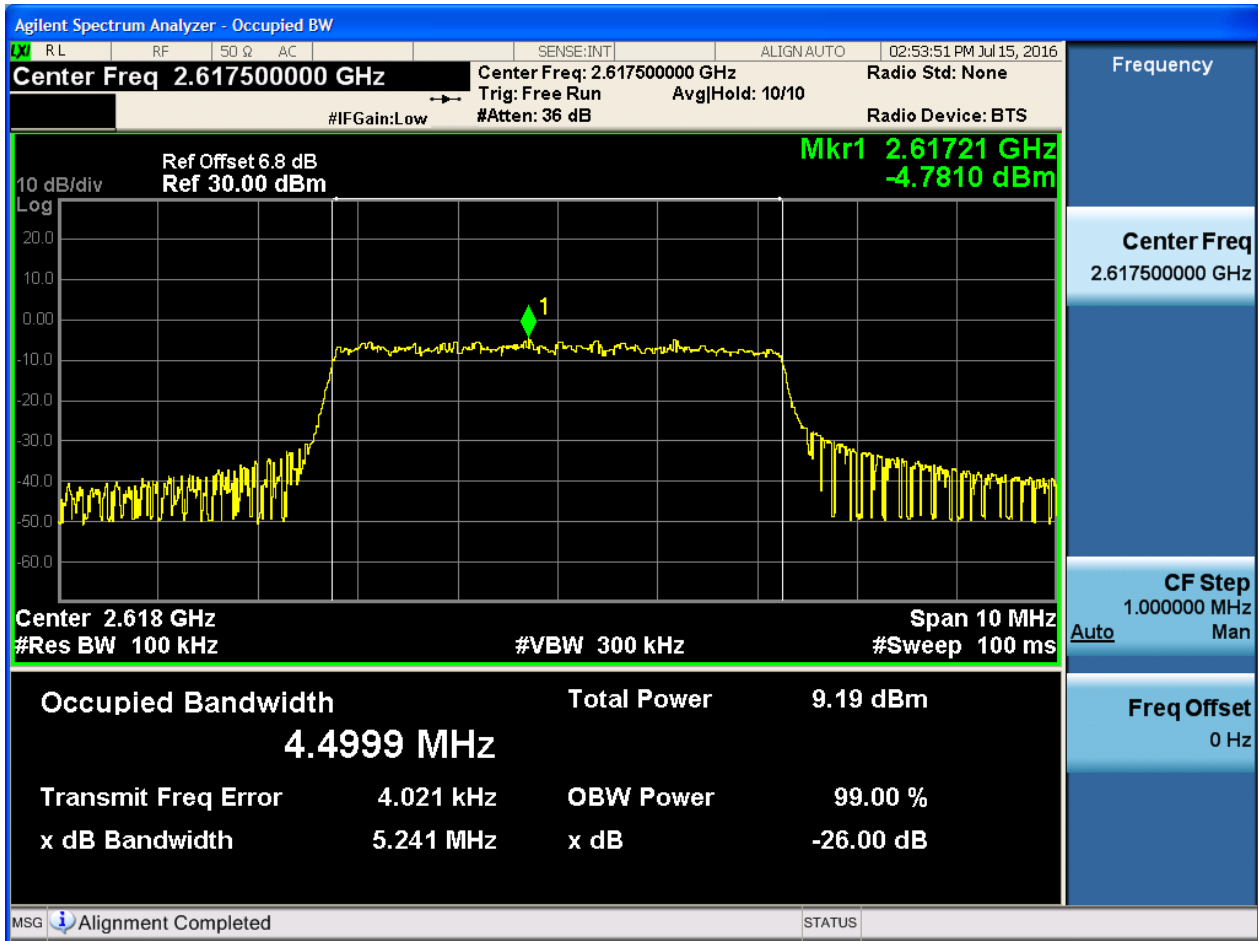
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

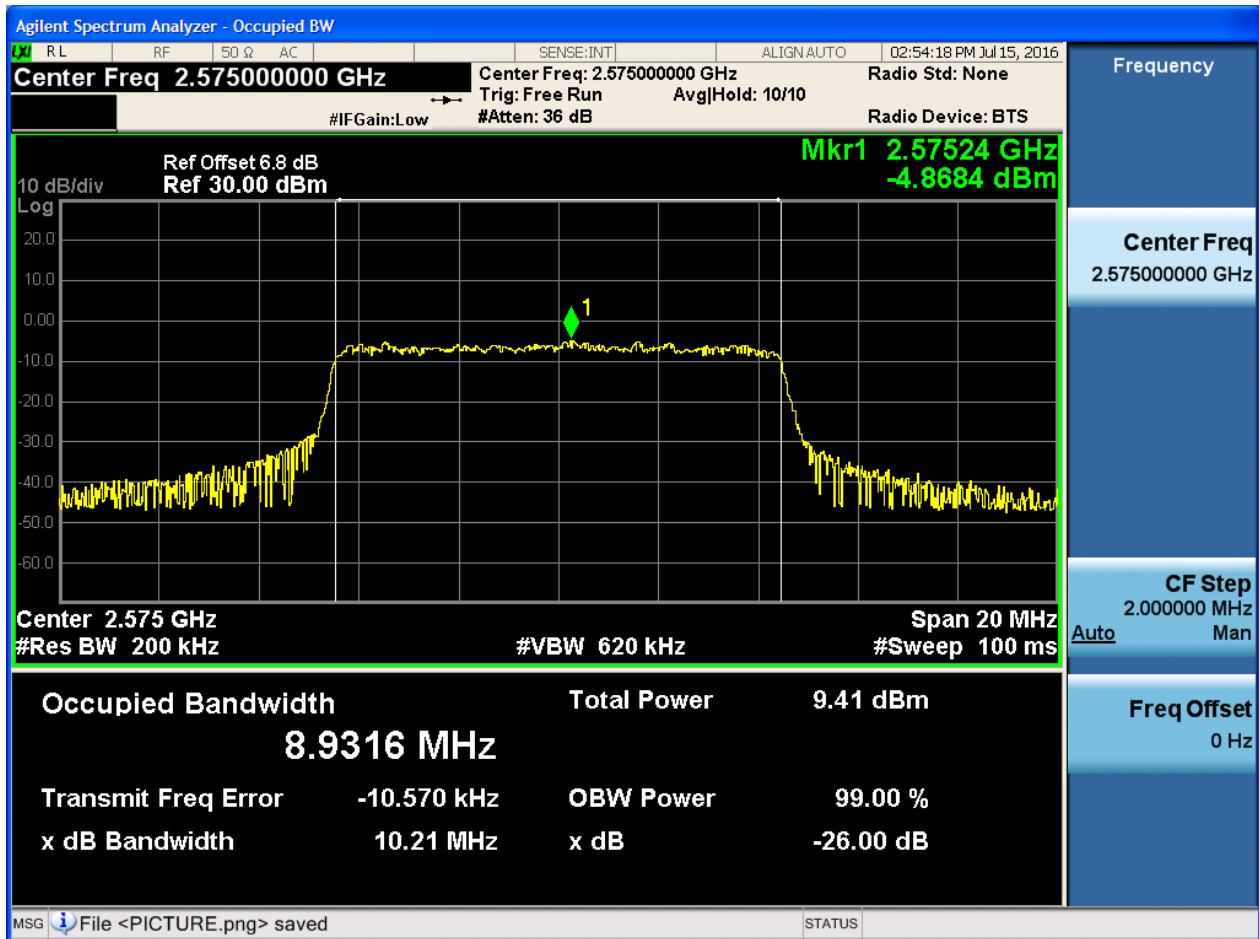




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

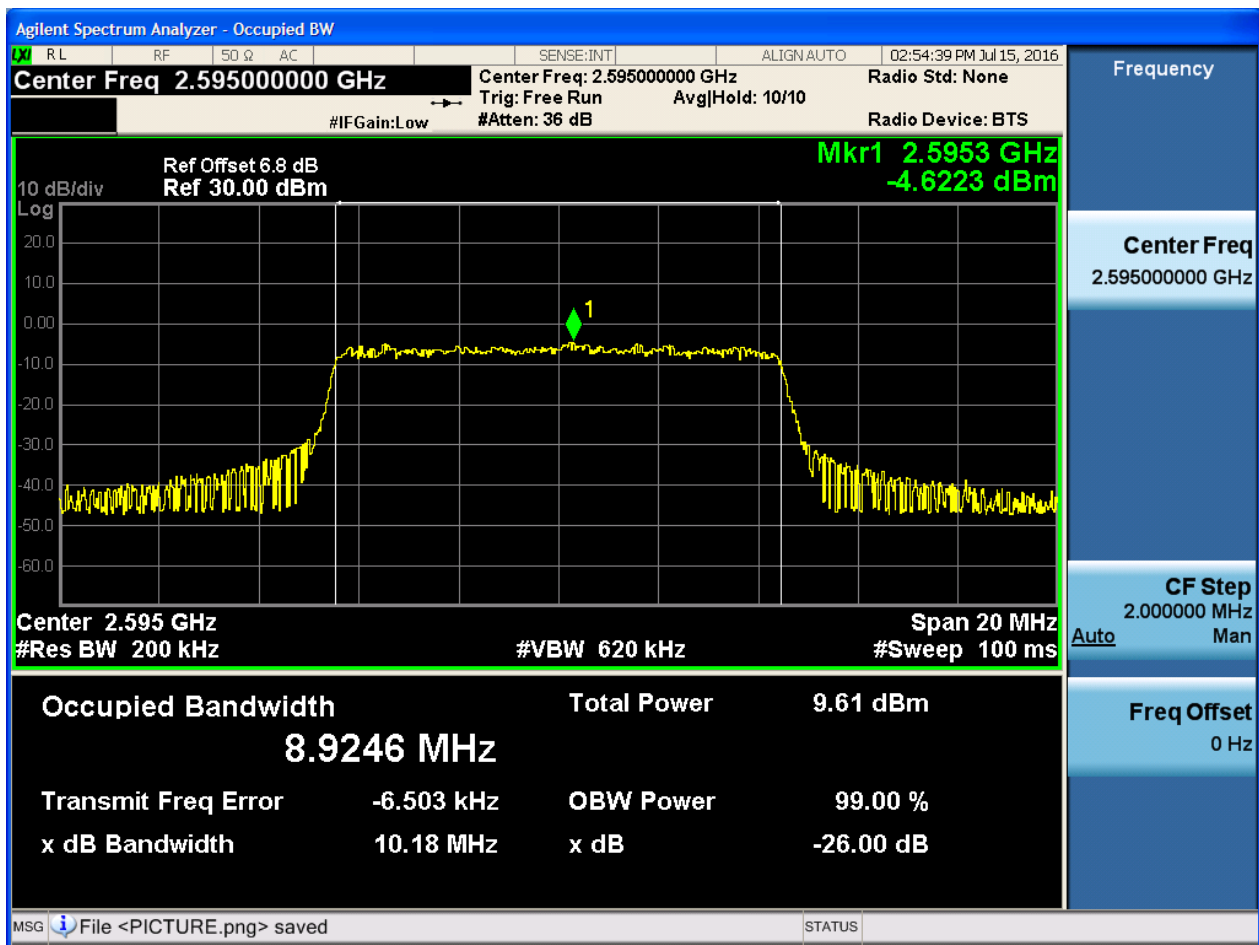
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

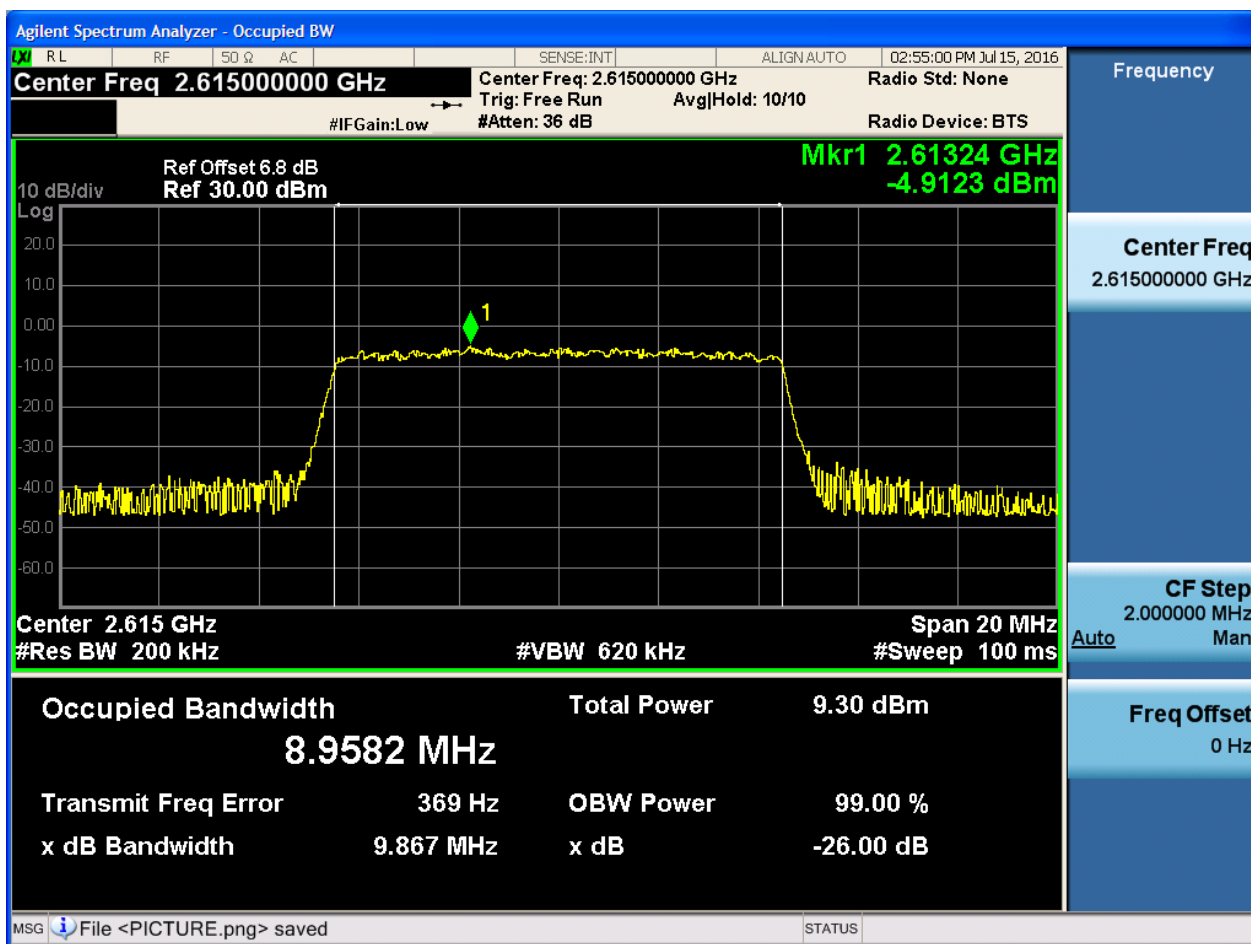
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

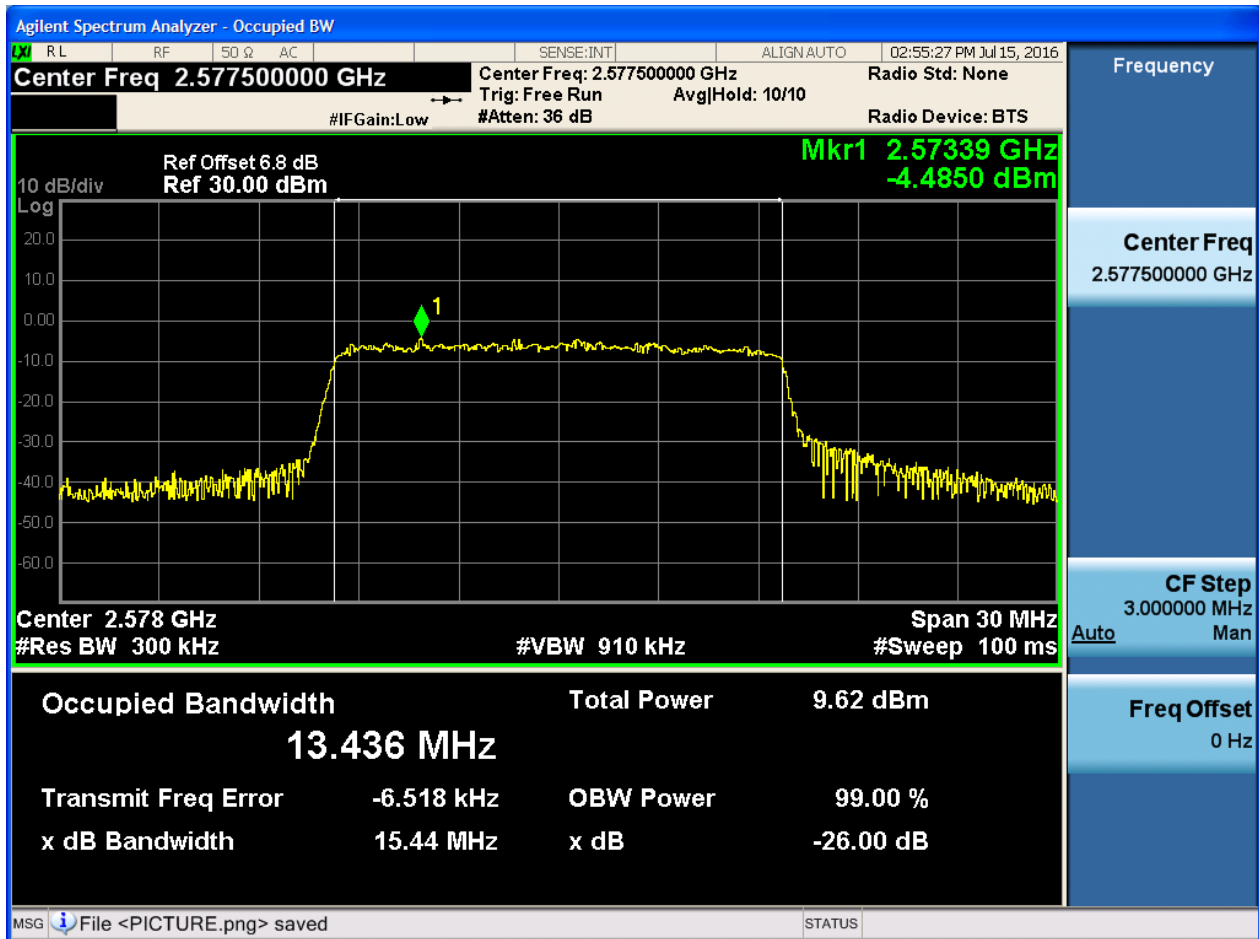




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

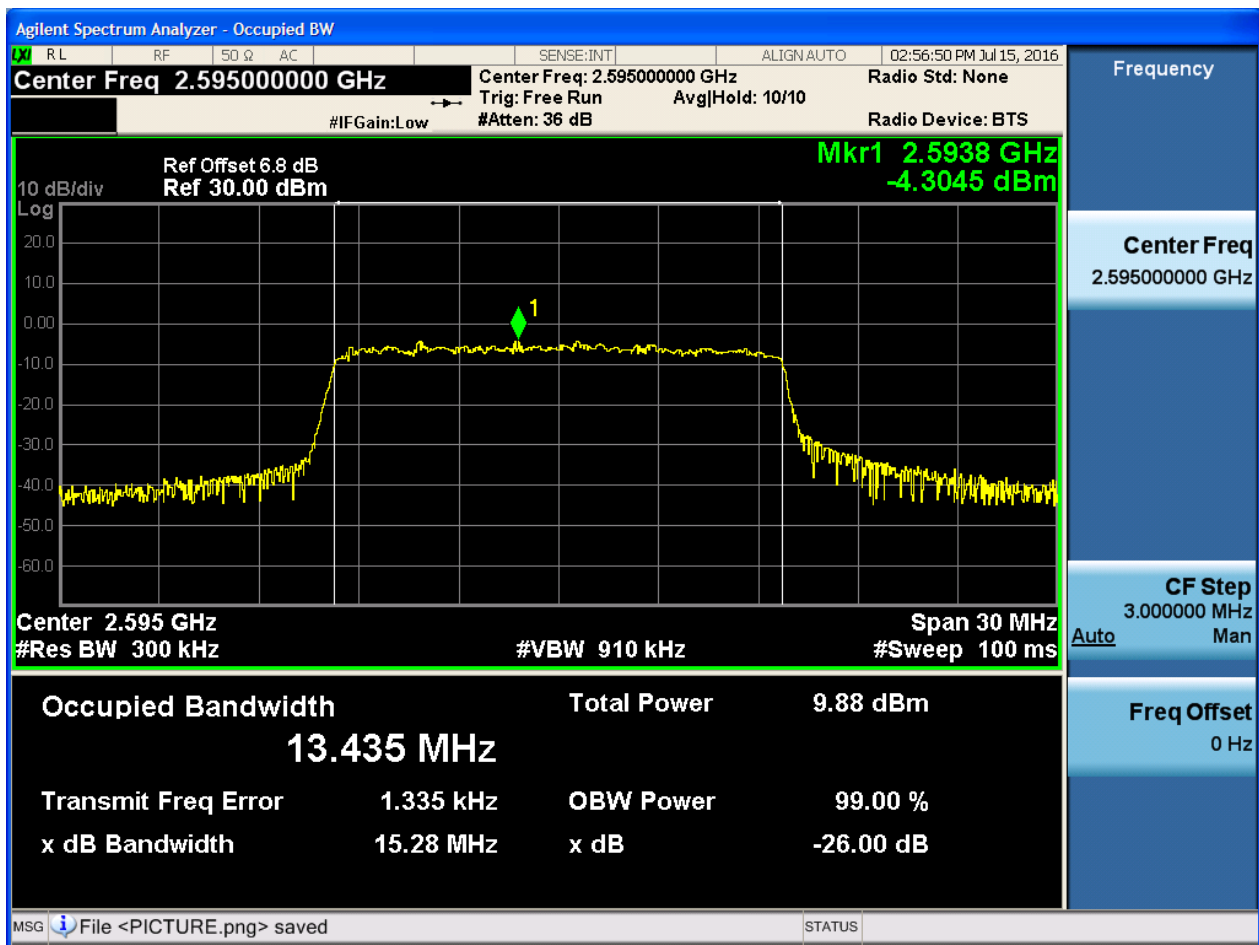
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

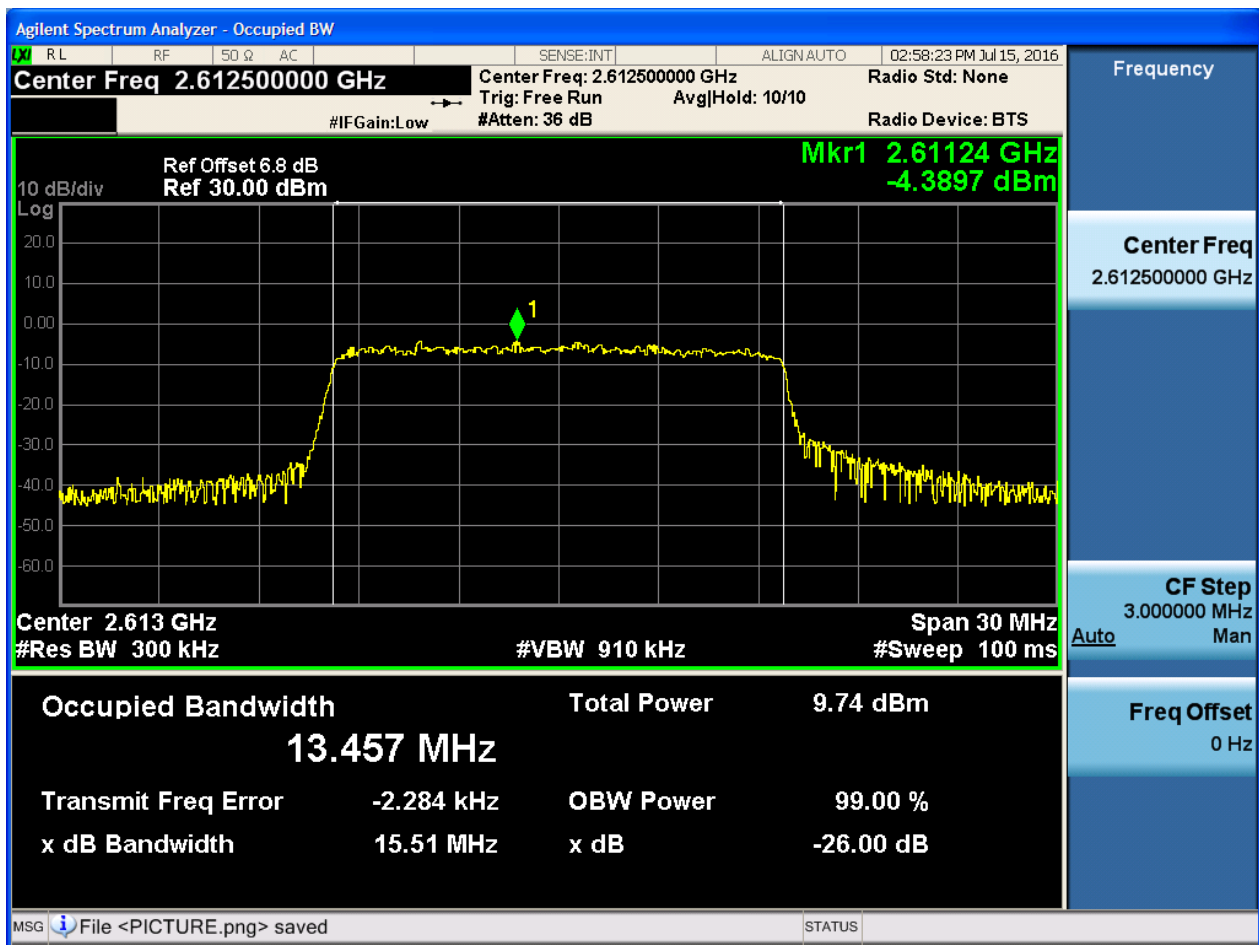
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

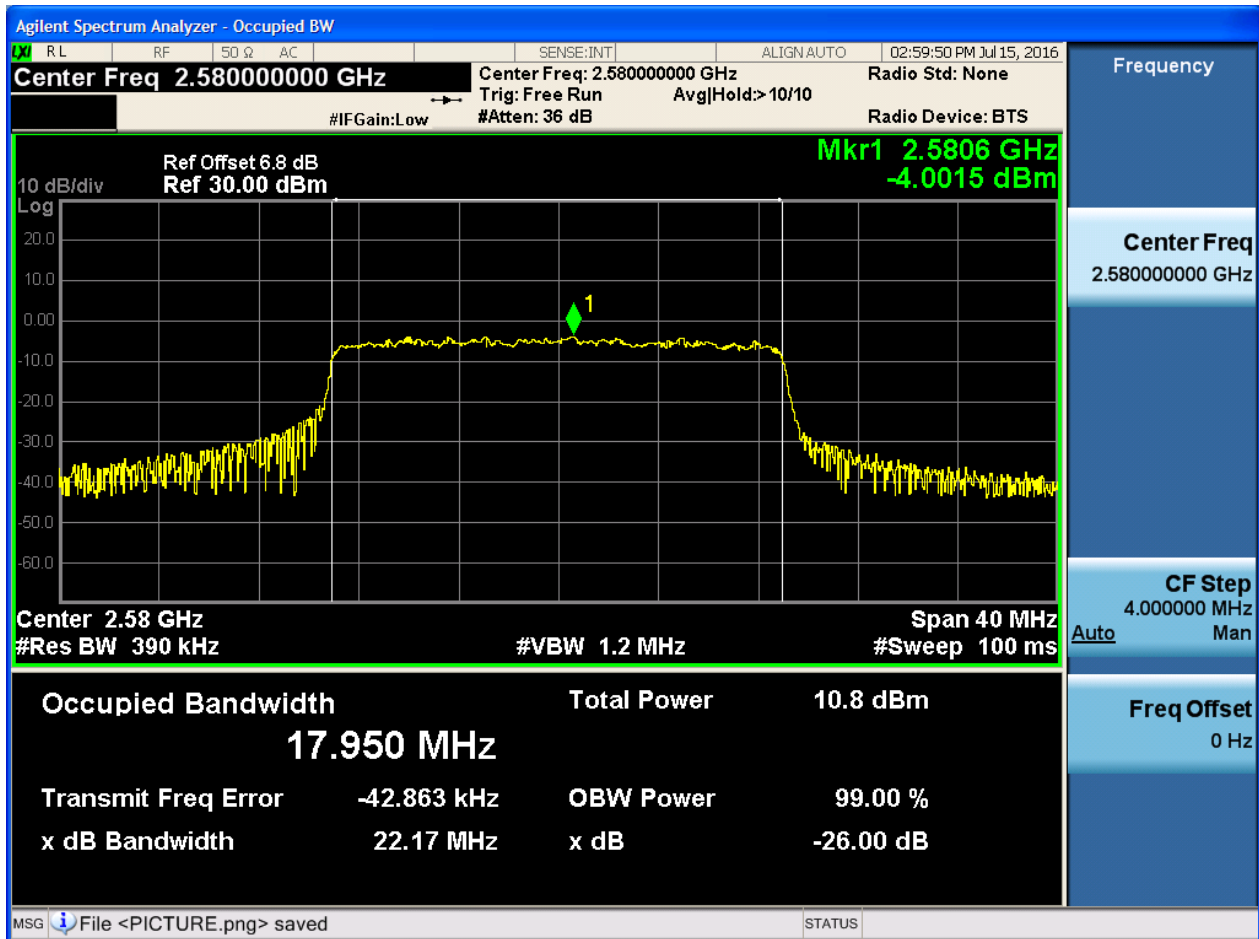




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

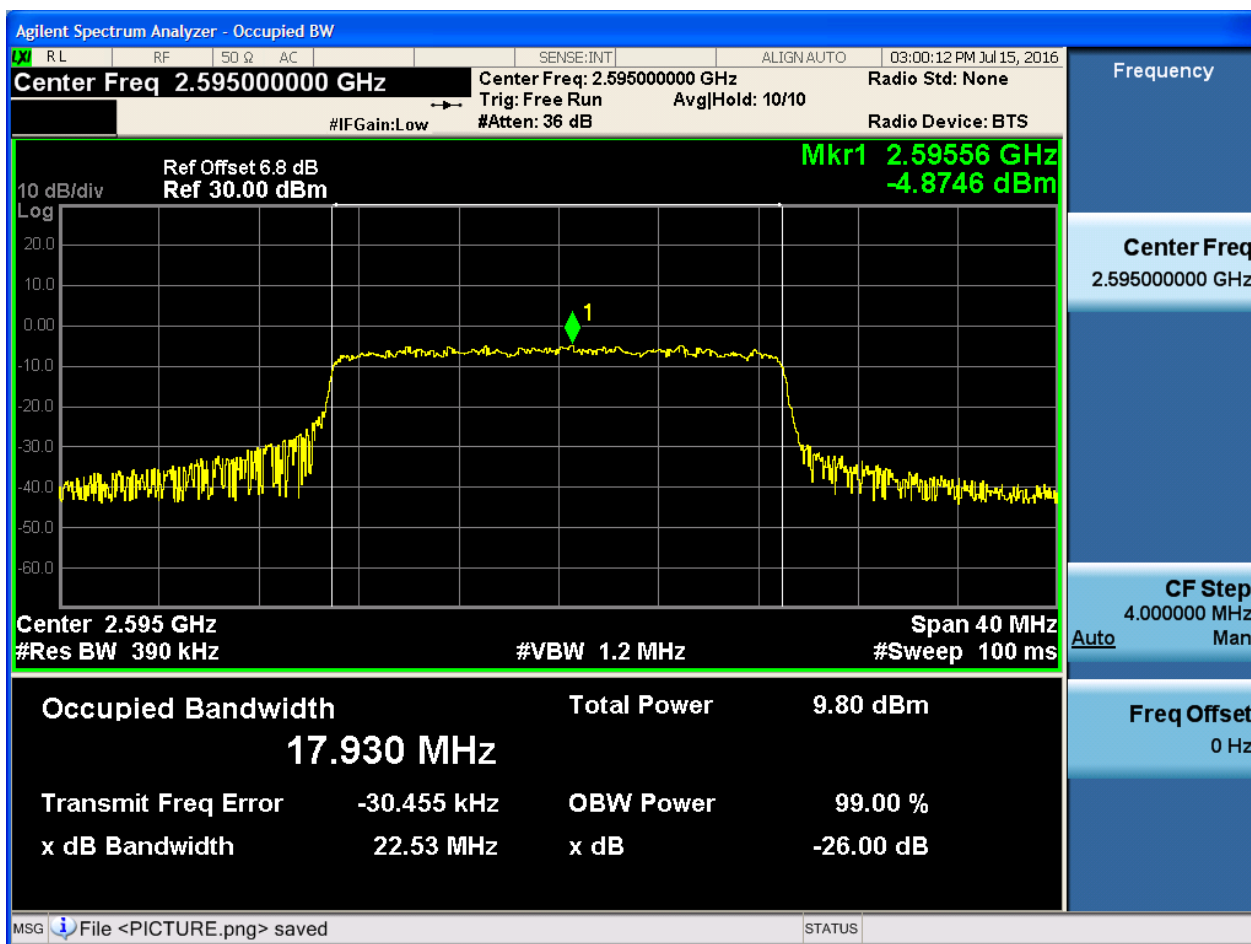
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

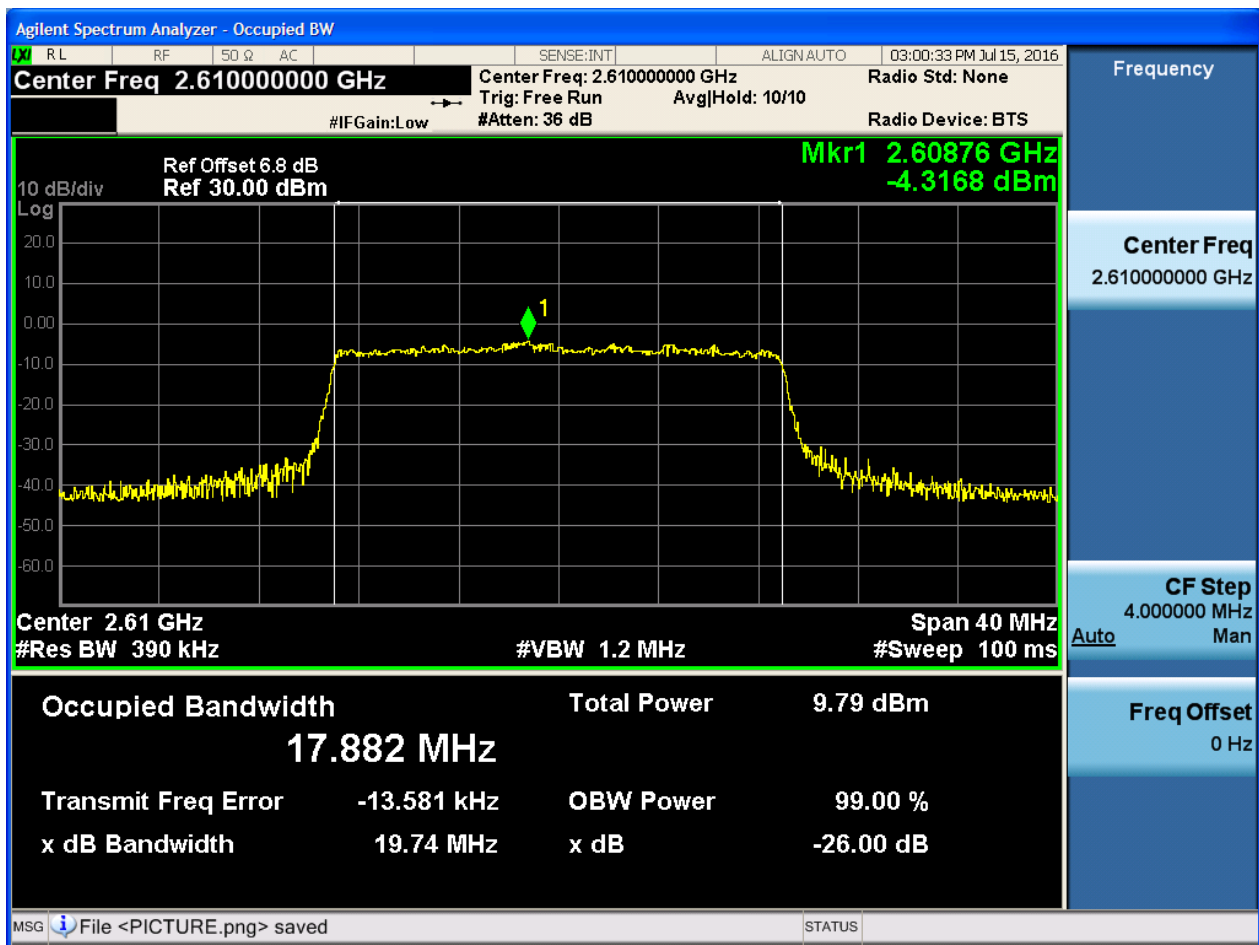
4.1.1.2.4.2.1 Test RB = RB100#0





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

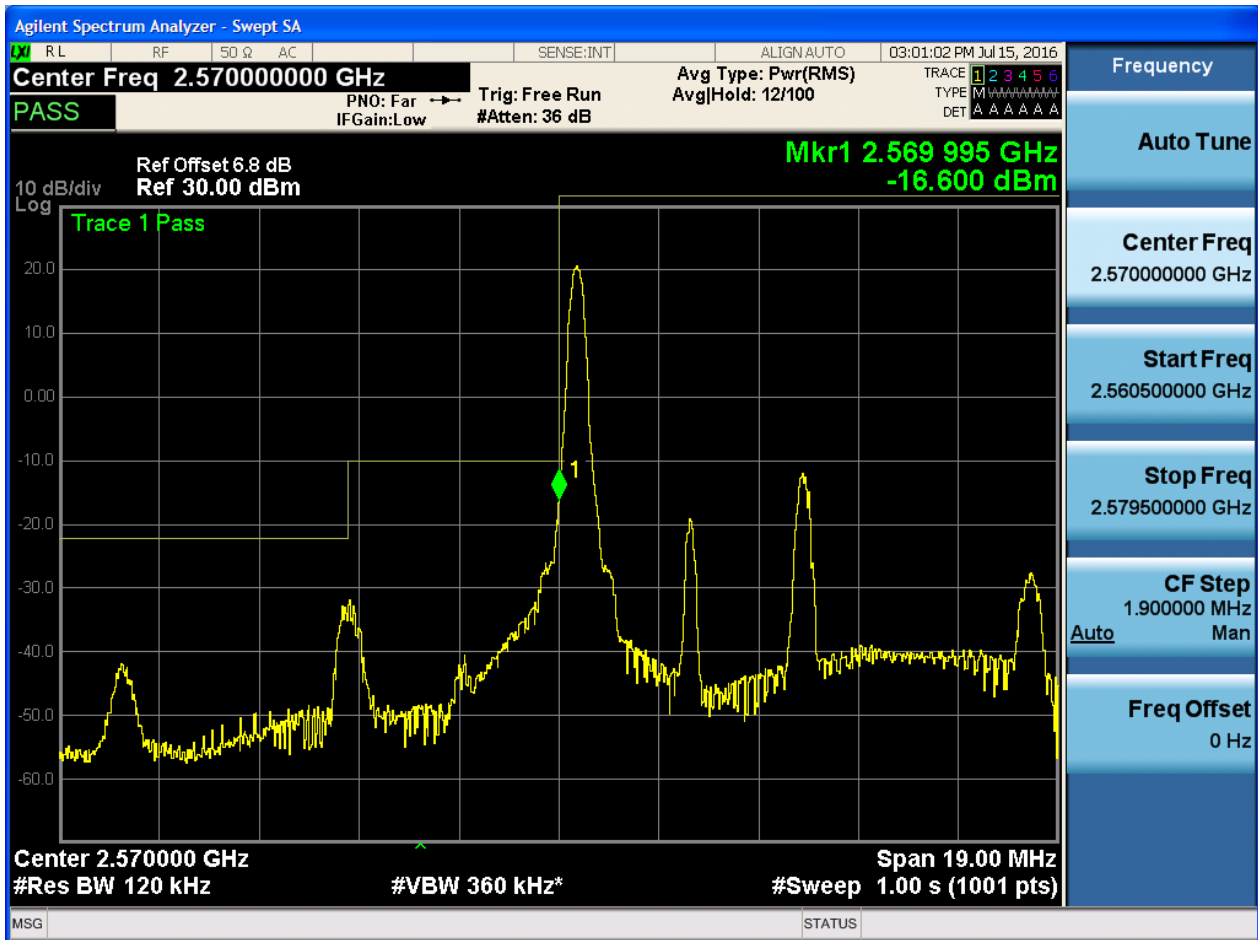
5.1.1 Test Band = BAND38

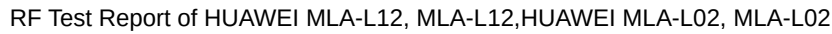
5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.570000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.569 995 GHz
-45.044 dBm

Center 2.570000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.560500000 GHz

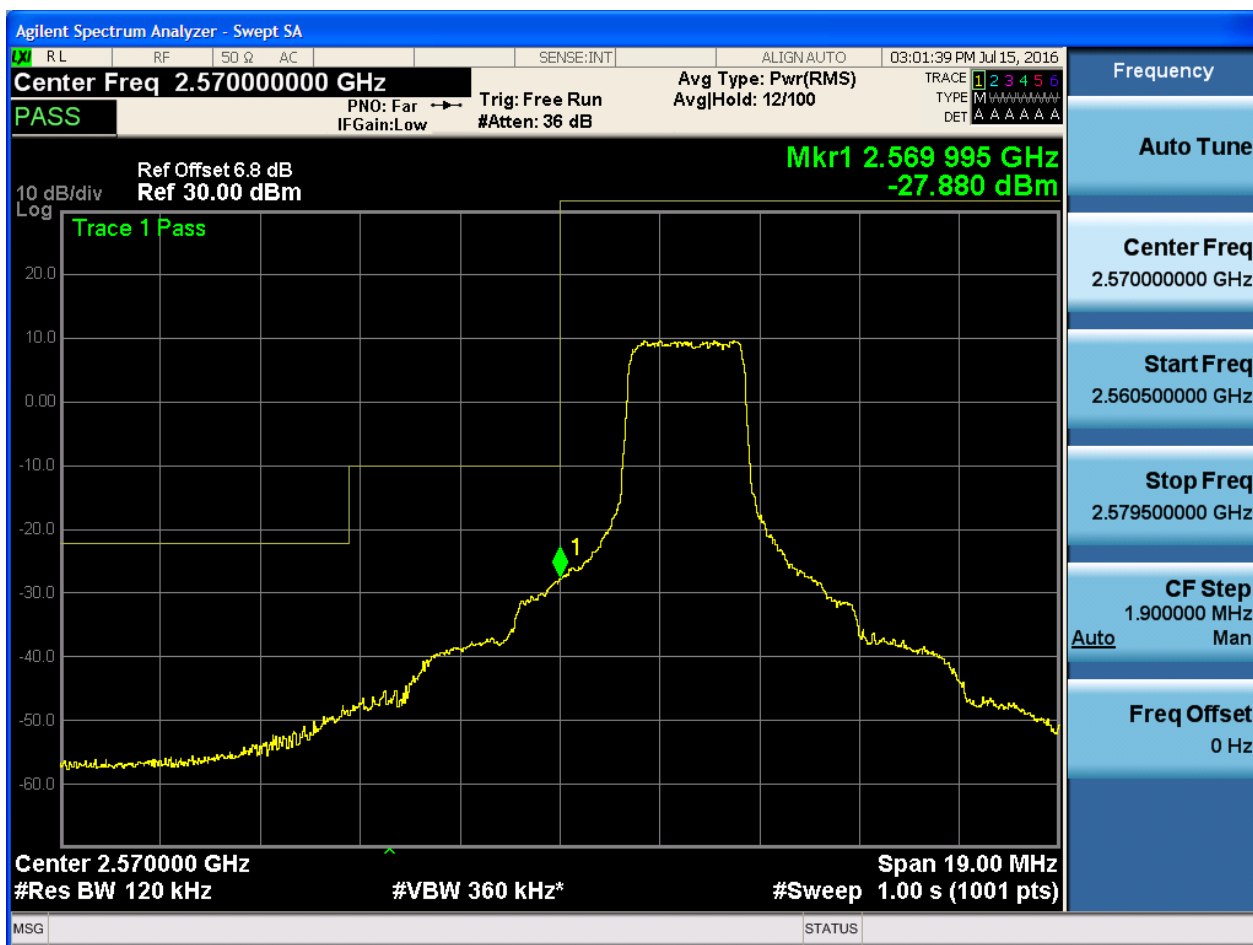
Stop Freq
2.579500000 GHz

CF Step
1.900000 MHz
Man

Freq Offset
0 Hz

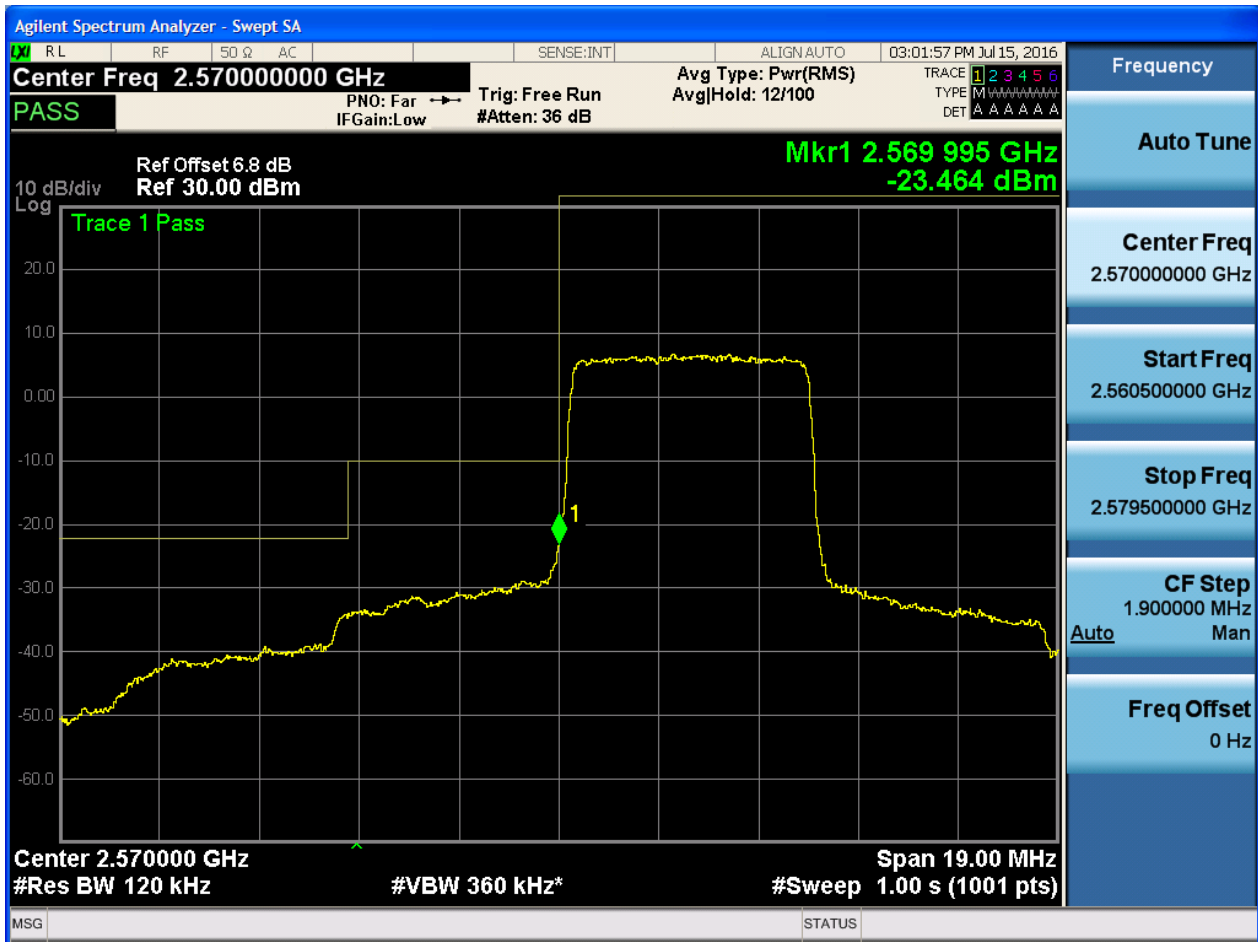


5.1.4.1.1.3 Test RB = RB12#6





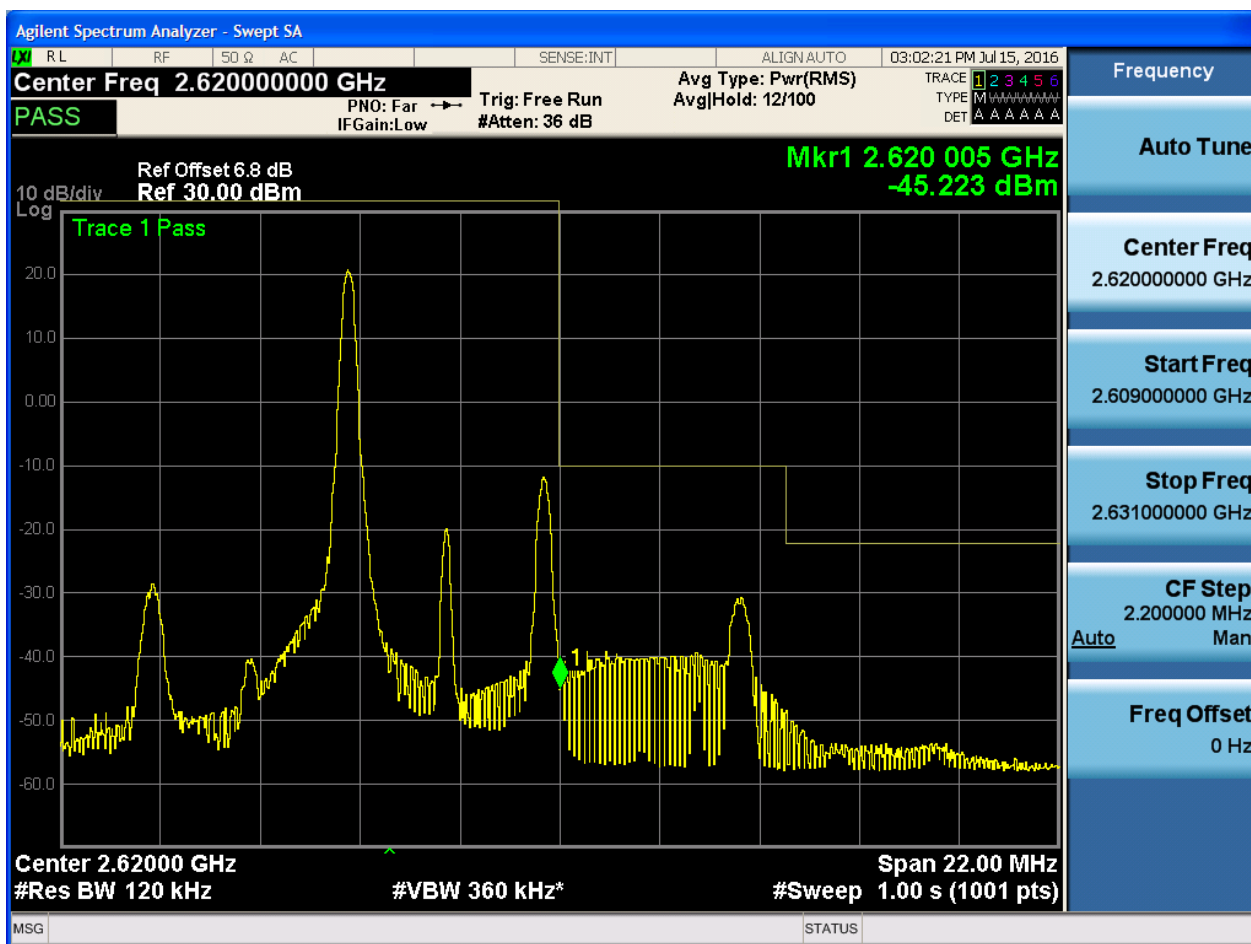
5.1.4.1.1.4 Test RB = RB25#0





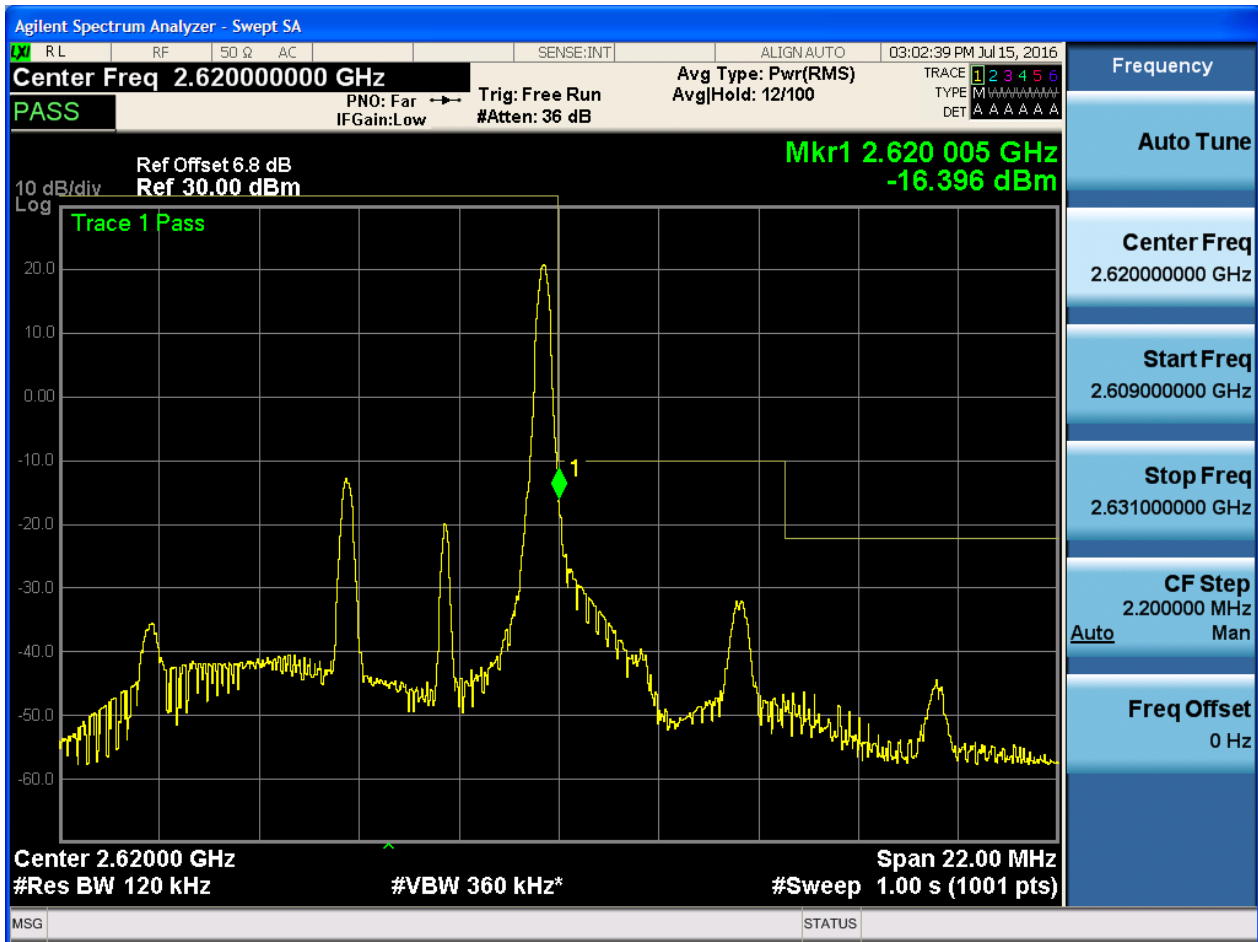
5.1.4.1.1.2 Test Channel = HCH

5.1.4.1.1.2.1 Test RB = RB1#0



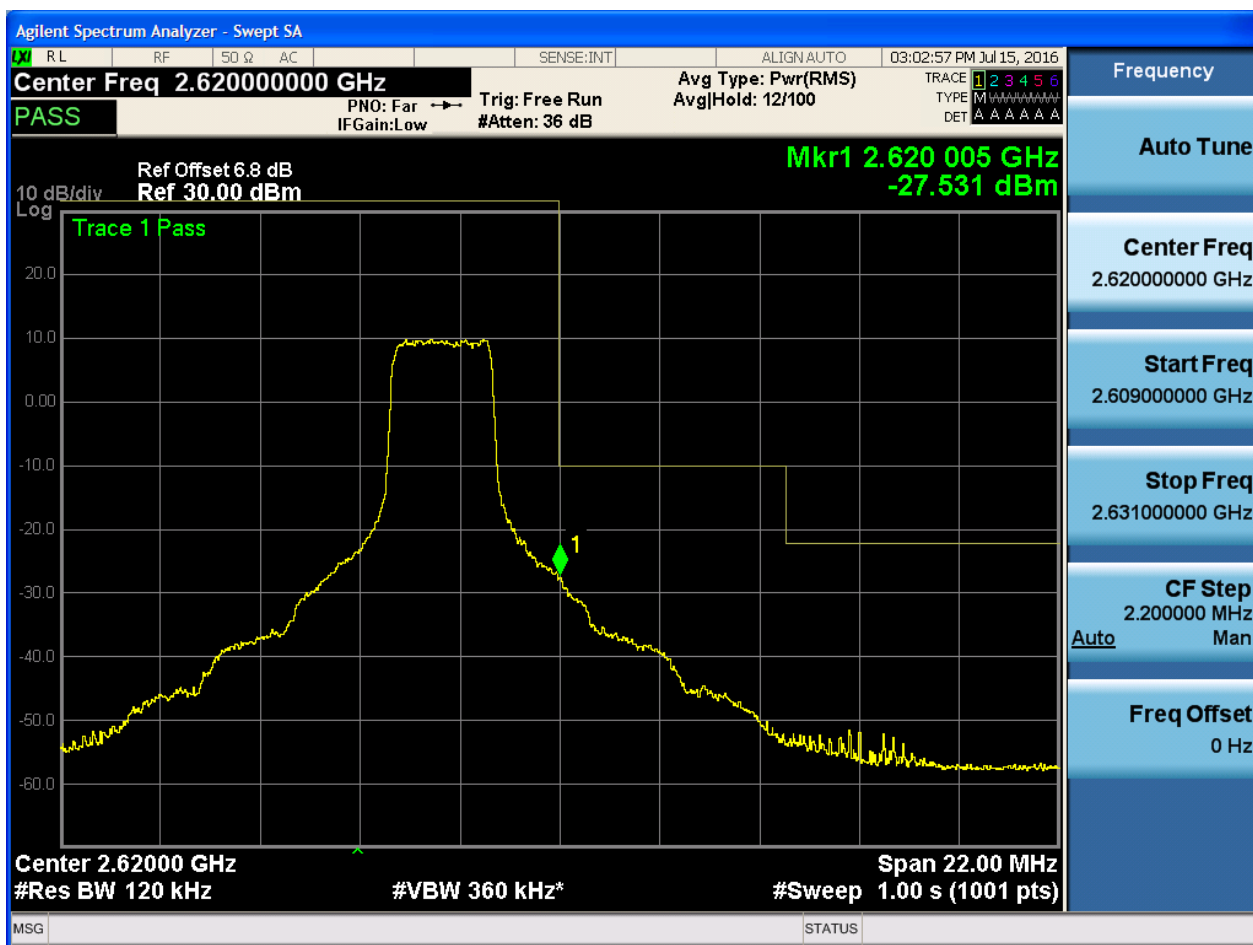


5.1.4.1.1.2.2 Test RB = RB1#24





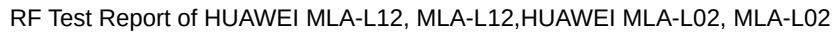
5.1.4.1.1.2.3 Test RB = RB12#6





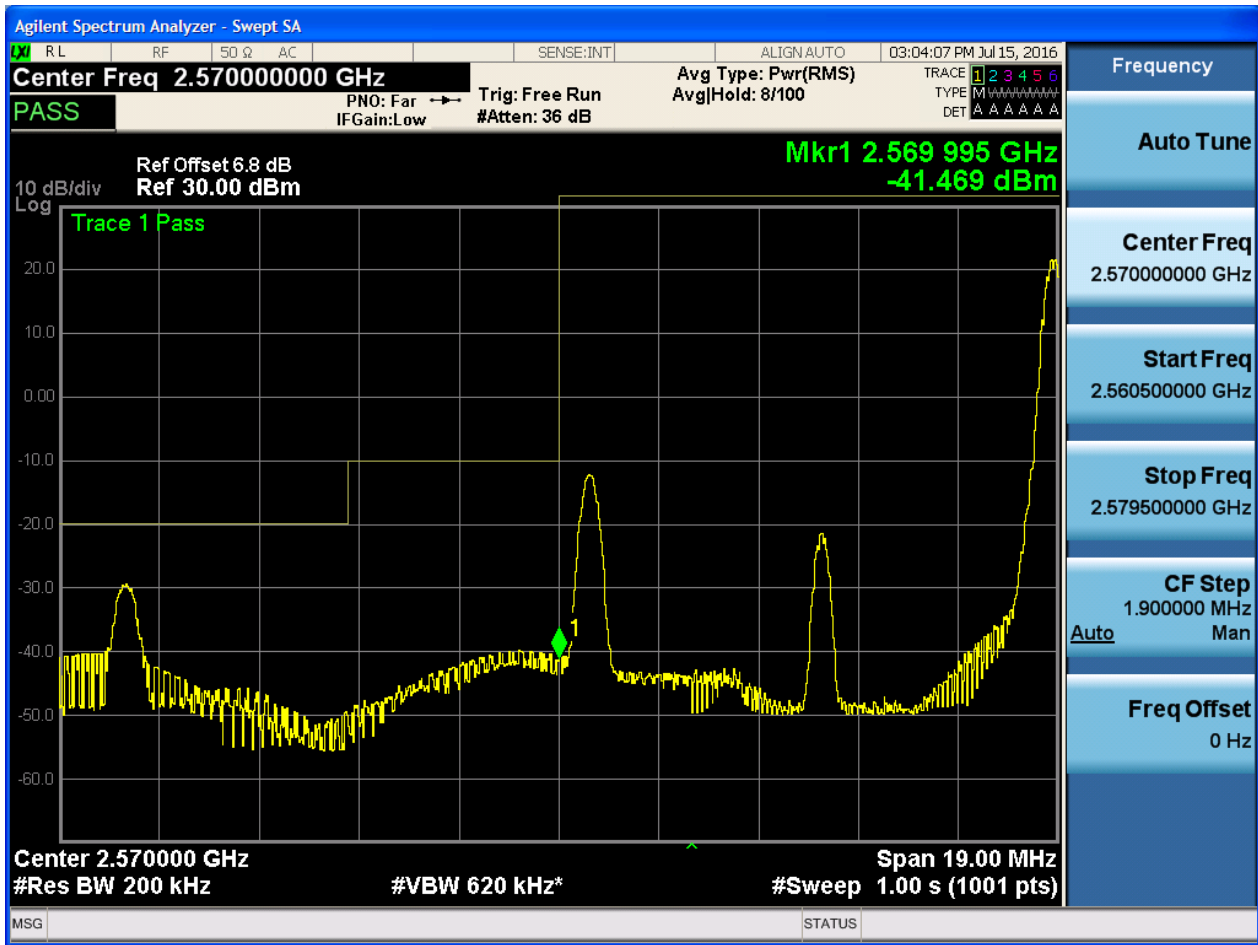
5.1.4.1.1.2.4 Test RB = RB25#0







5.1.4.1.2.1.2 Test RB = RB1#49



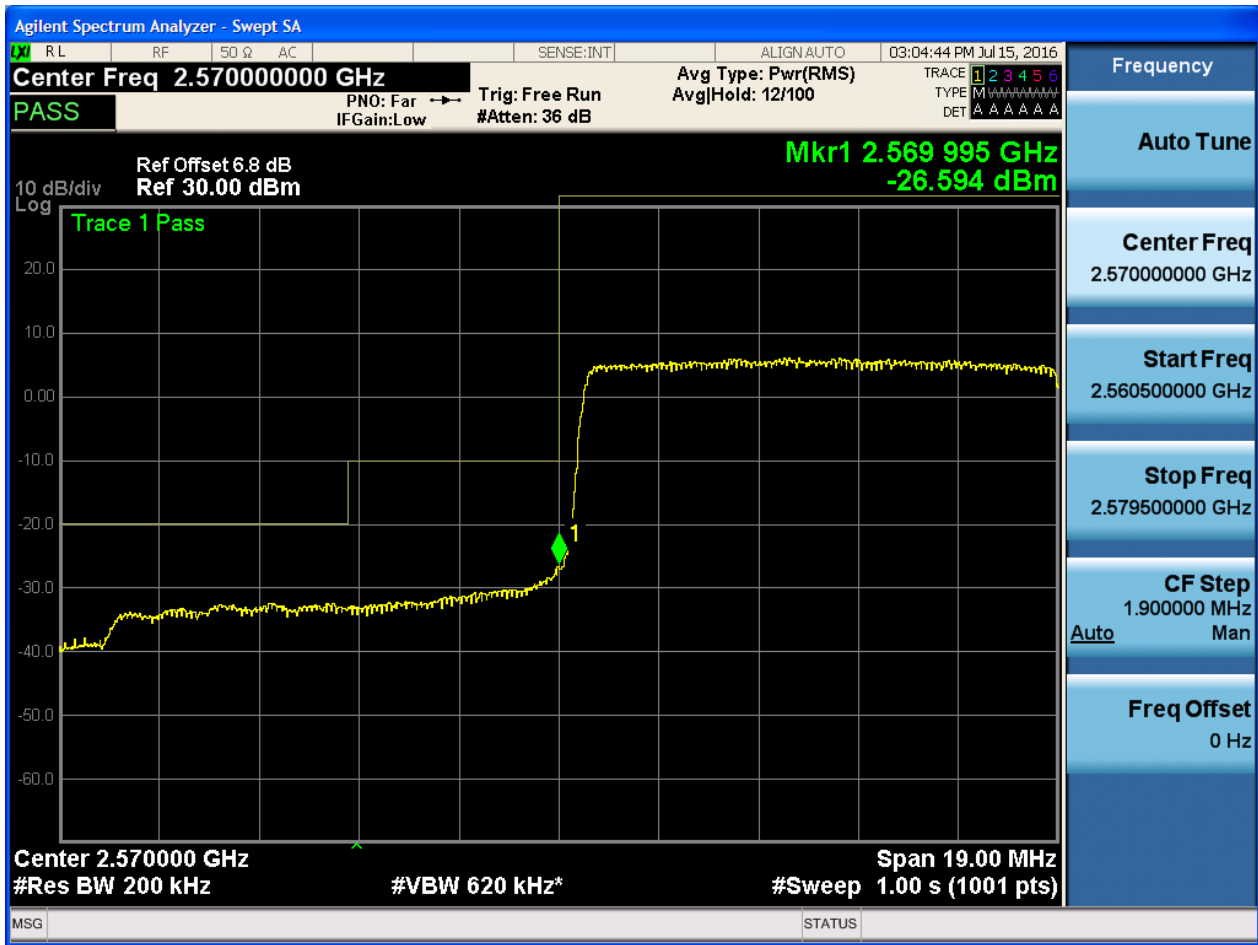


5.1.4.1.2.1.3 Test RB = RB25#13





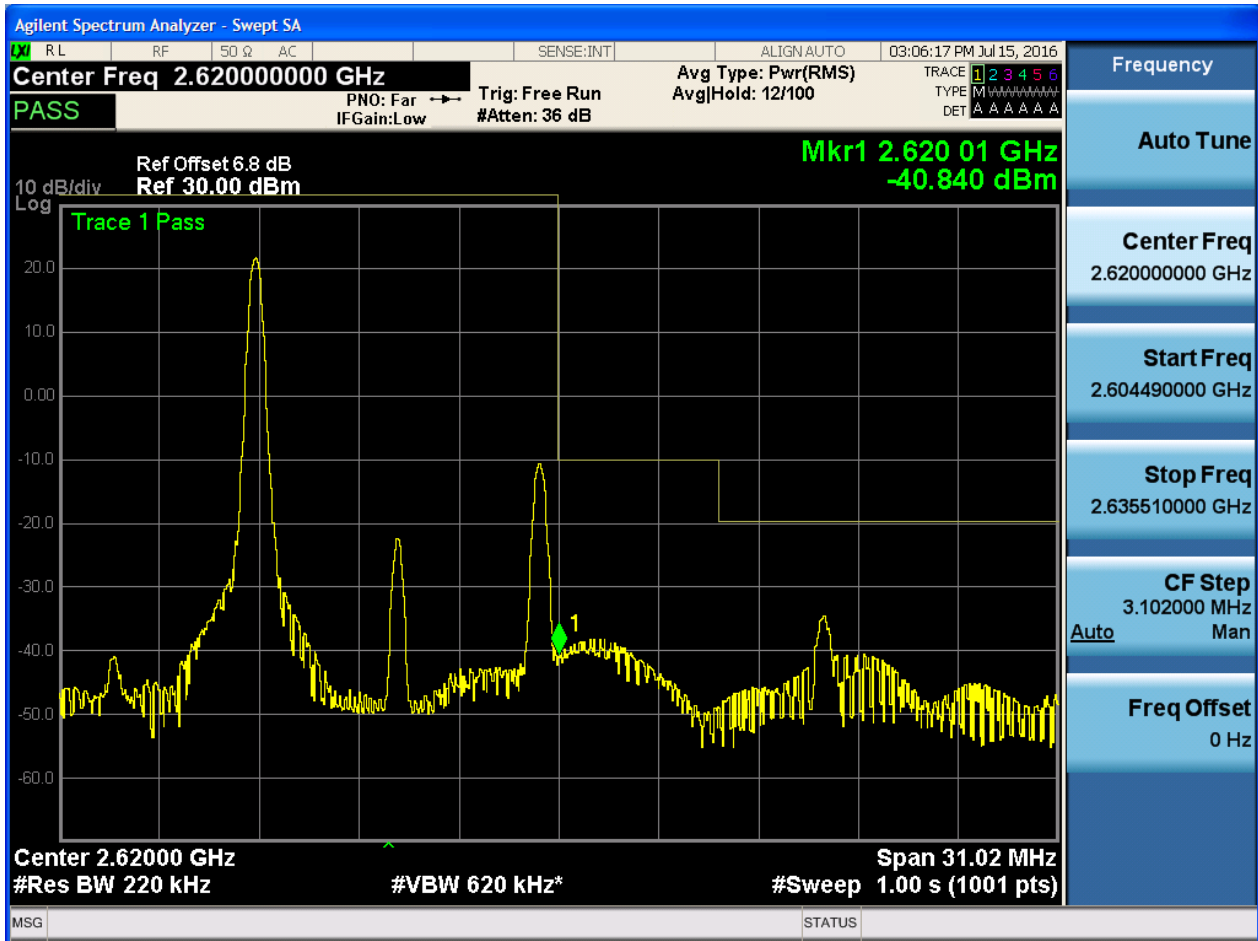
5.1.4.1.2.1.4 Test RB = RB50#0





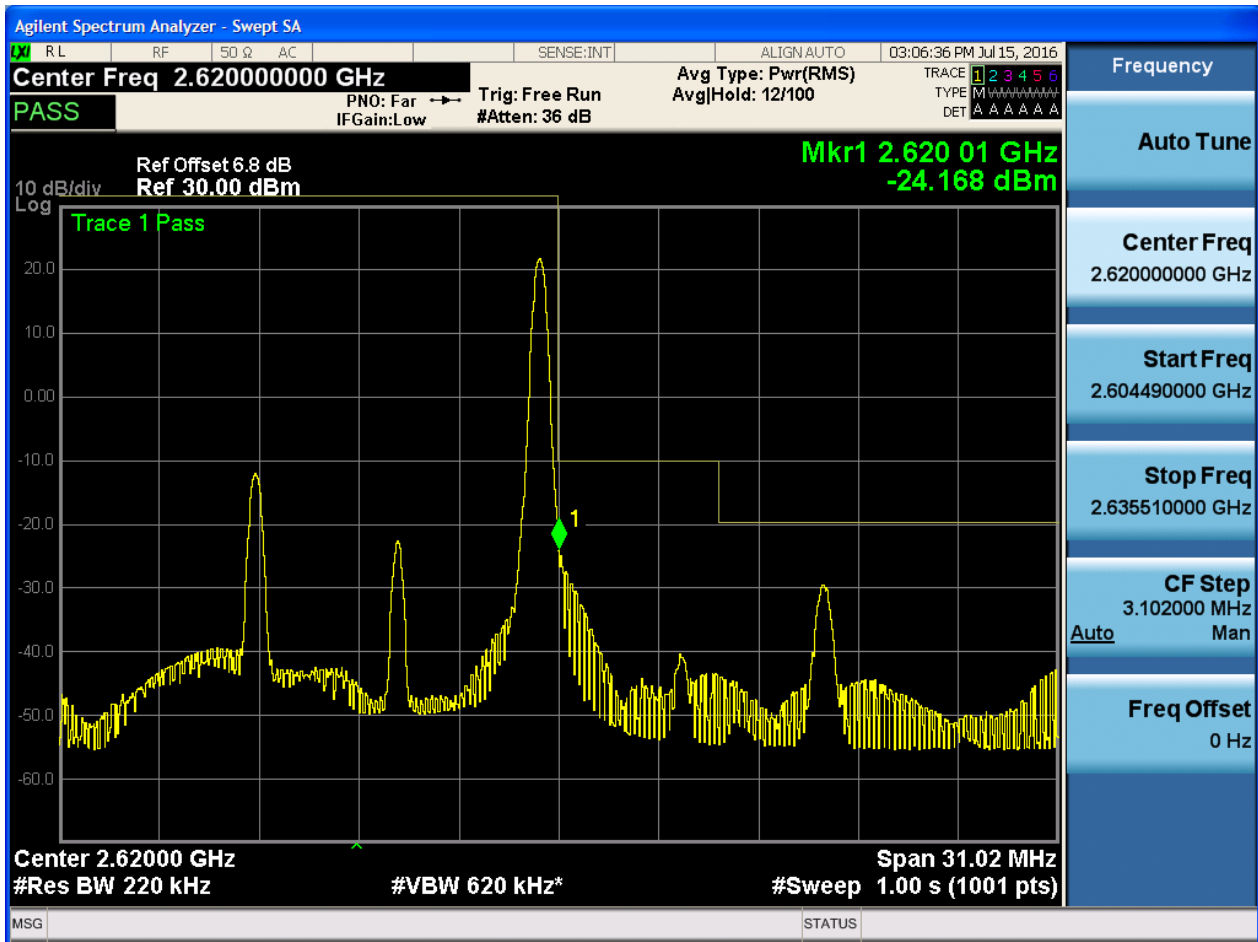
5.1.4.1.2.2 Test Channel = HCH

5.1.4.1.2.2.1 Test RB = RB1#0





5.1.4.1.2.2.2 Test RB = RB1#49





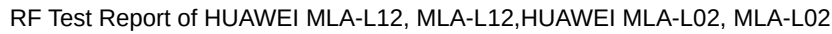
5.1.4.1.2.2.3 Test RB = RB25#13





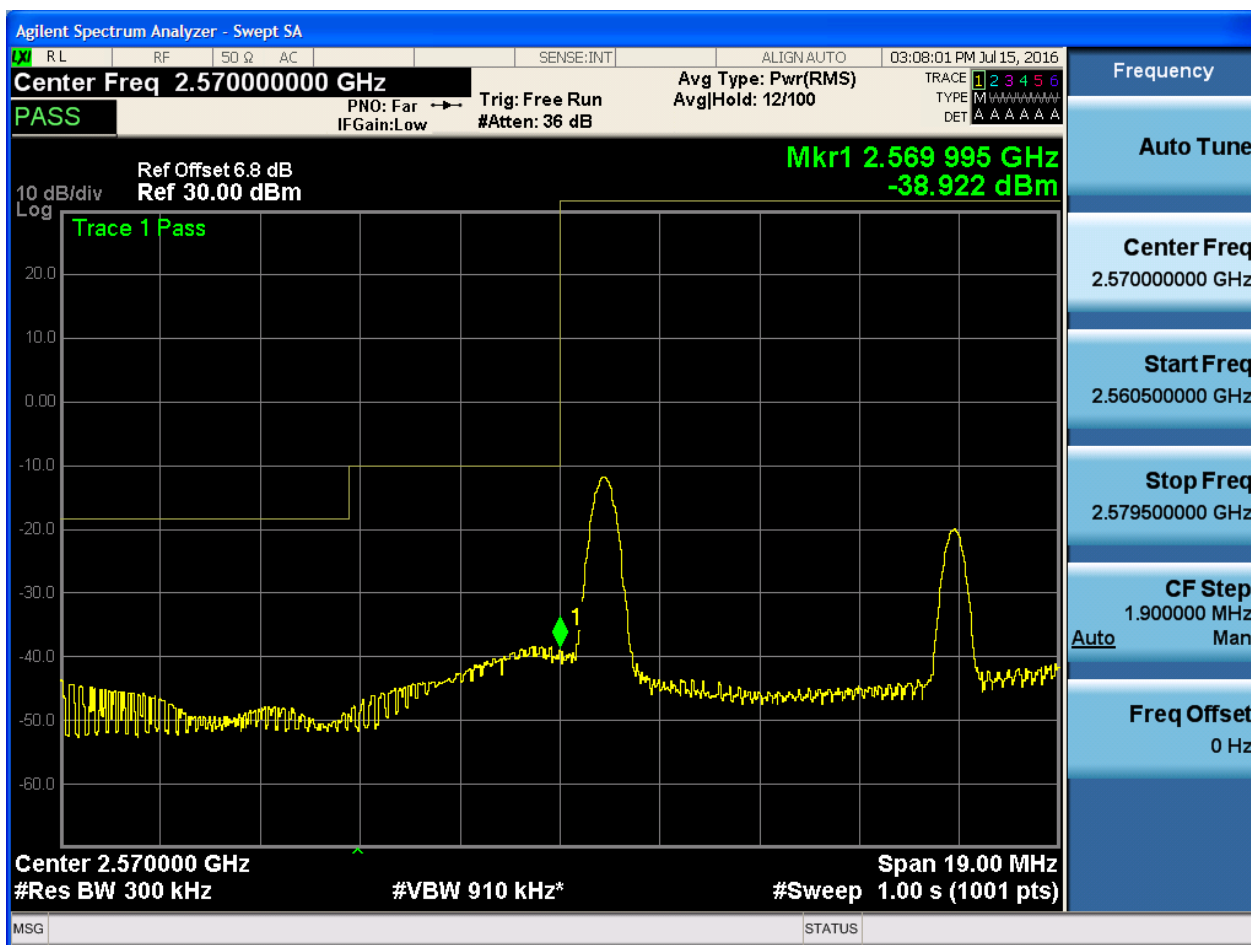
5.1.4.1.2.2.4 Test RB = RB50#0







5.1.4.1.3.1.2 Test RB = RB1#74



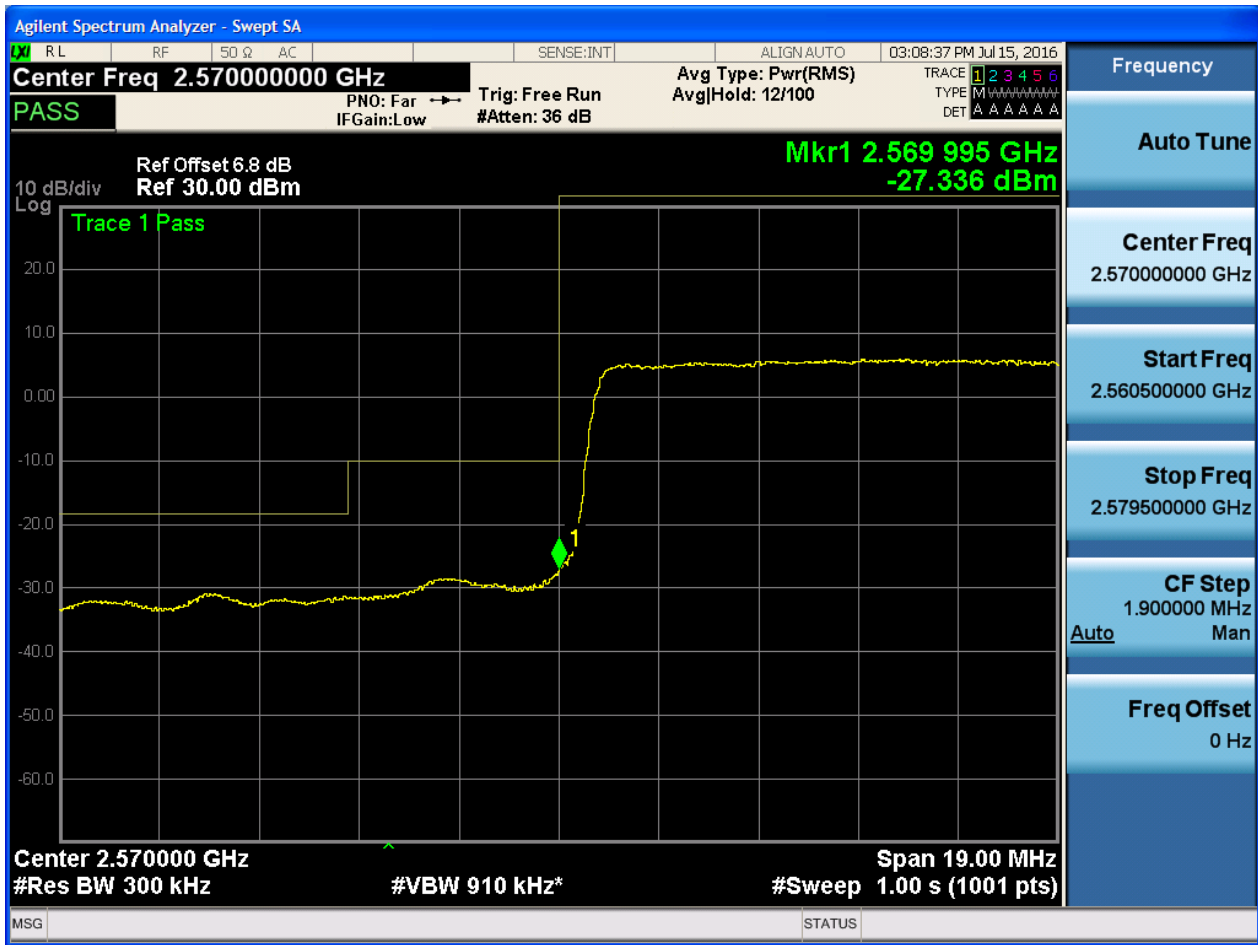


5.1.4.1.3.1.3 Test RB = RB36#18





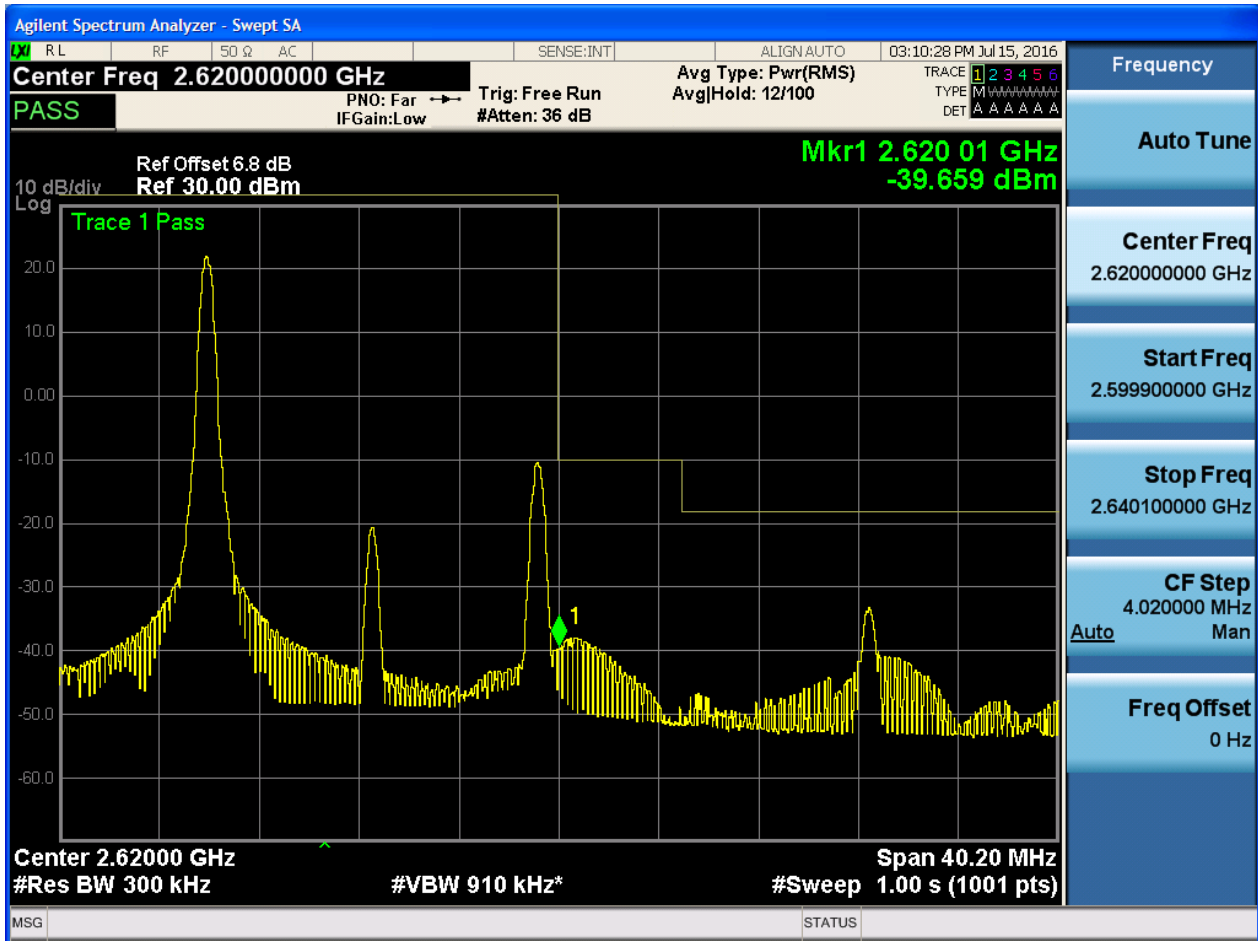
5.1.4.1.3.1.4 Test RB = RB75#0





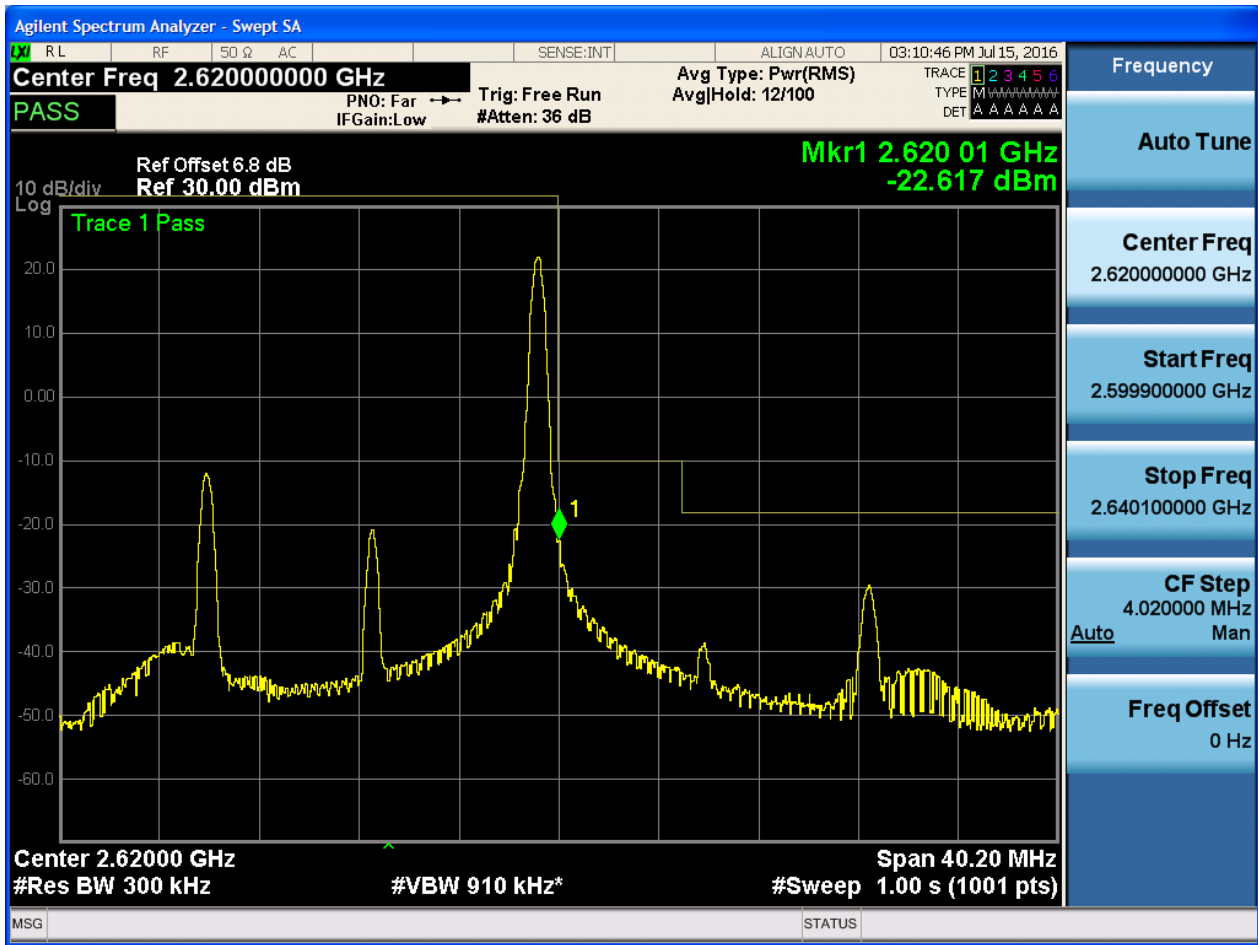
5.1.4.1.3.2 Test Channel = HCH

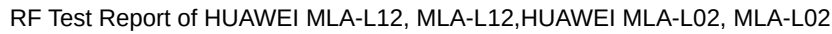
5.1.4.1.3.2.1 Test RB = RB1#0





5.1.4.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Trace 1 Pass

Mkr1 2.620 01 GHz
-28.956 dBm

Center 2.62000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 40.20 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.599900000 GHz

Stop Freq
2.640100000 GHz

CF Step
4.020000 MHz
Man

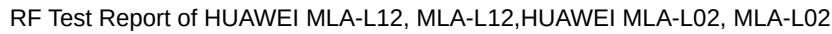
Auto

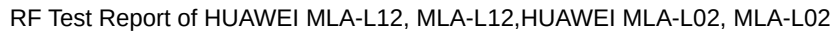
Freq Offset
0 Hz



5.1.4.1.3.2.4 Test RB = RB75#0







Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.569 995 GHz
-44.040 dBm

Trace 1 Pass

10 dB/div
Log

Center 2.57000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.560500000 GHz

Stop Freq
2.579500000 GHz

CF Step
1.900000 MHz
Man

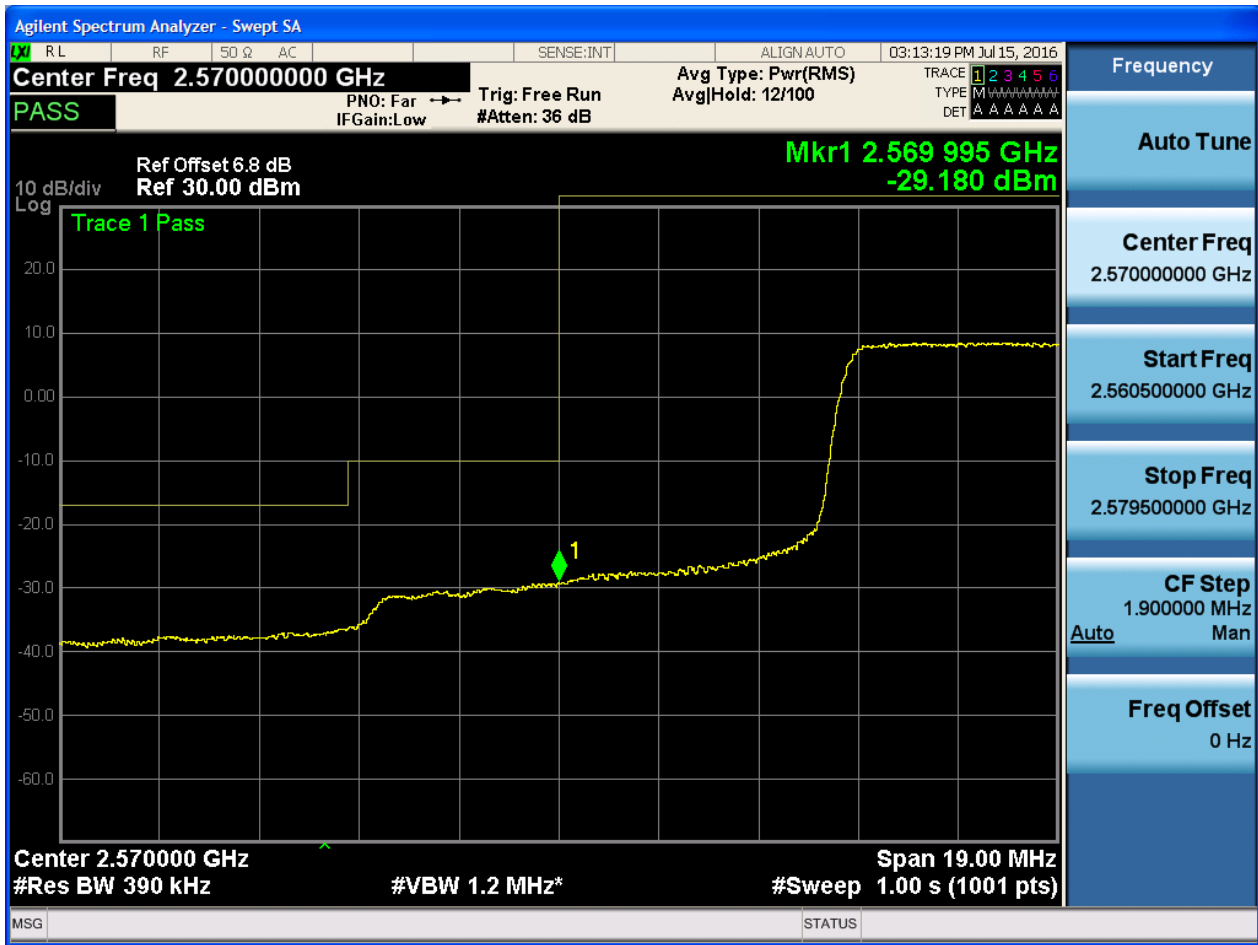
Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in swept SA mode. The main display is a log-scale plot of power (dBm) versus frequency (GHz). The y-axis ranges from -60.0 to 20.0 dBm, and the x-axis ranges from 2.5605 to 2.5795 GHz. A yellow trace shows the spectrum, with a prominent peak at 2.569995 GHz, marked with a green diamond and labeled '1'. The peak power is -44.040 dBm. The trace is labeled 'Trace 1 Pass'. The center frequency is 2.57000000 GHz, and the span is 19.00 MHz. The resolution bandwidth (Res BW) is 390 kHz, and the video bandwidth (VBW) is 1.2 MHz. The sweep time is 1.00 s (1001 pts). The reference level is 30.00 dBm, and the reference offset is 6.8 dB. The display also shows various settings like PNO: Far, IF Gain: Low, and Trig: Free Run. The status bar at the bottom shows 'MSG' and 'STATUS'.

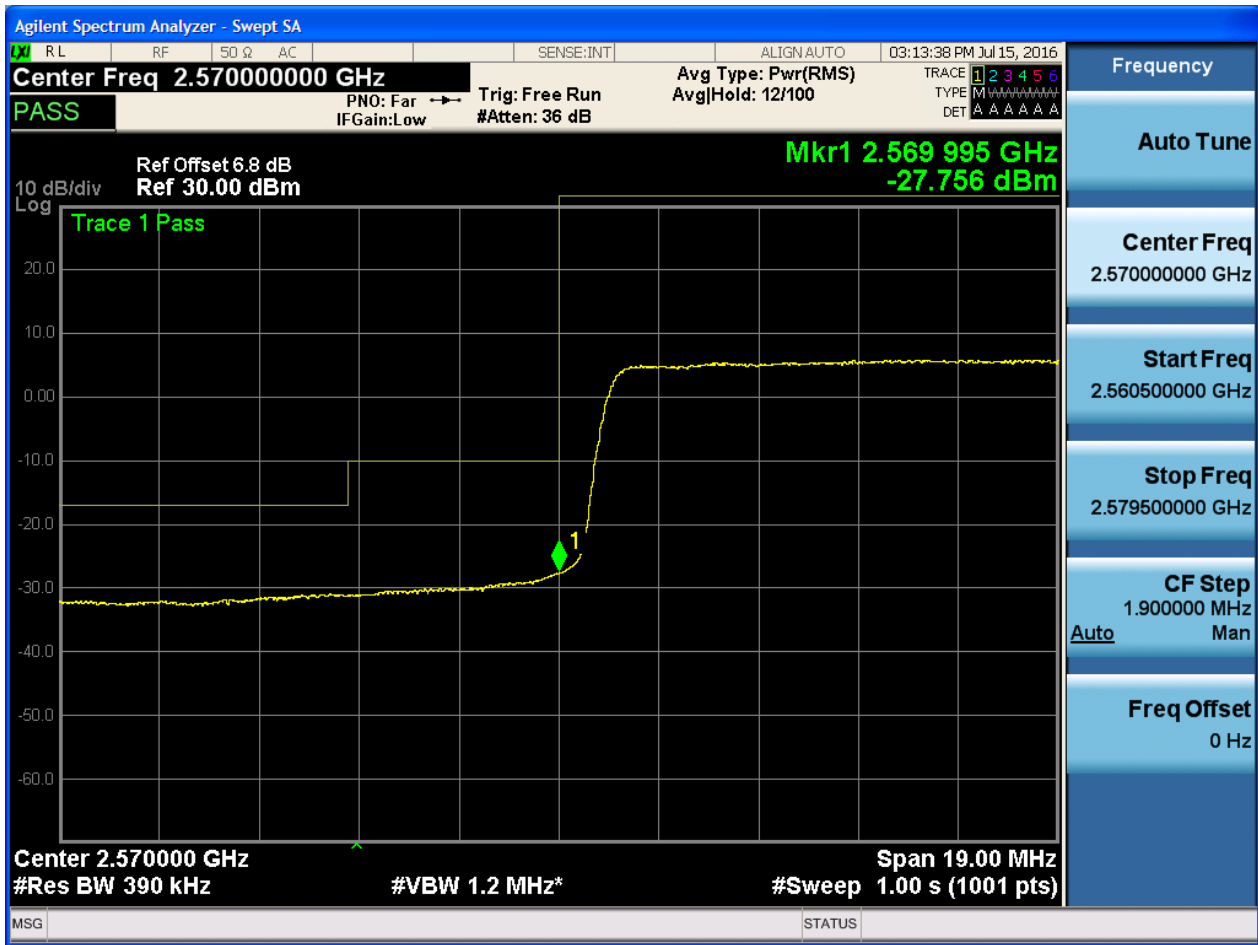


5.1.4.1.4.1.3 Test RB = RB50#25





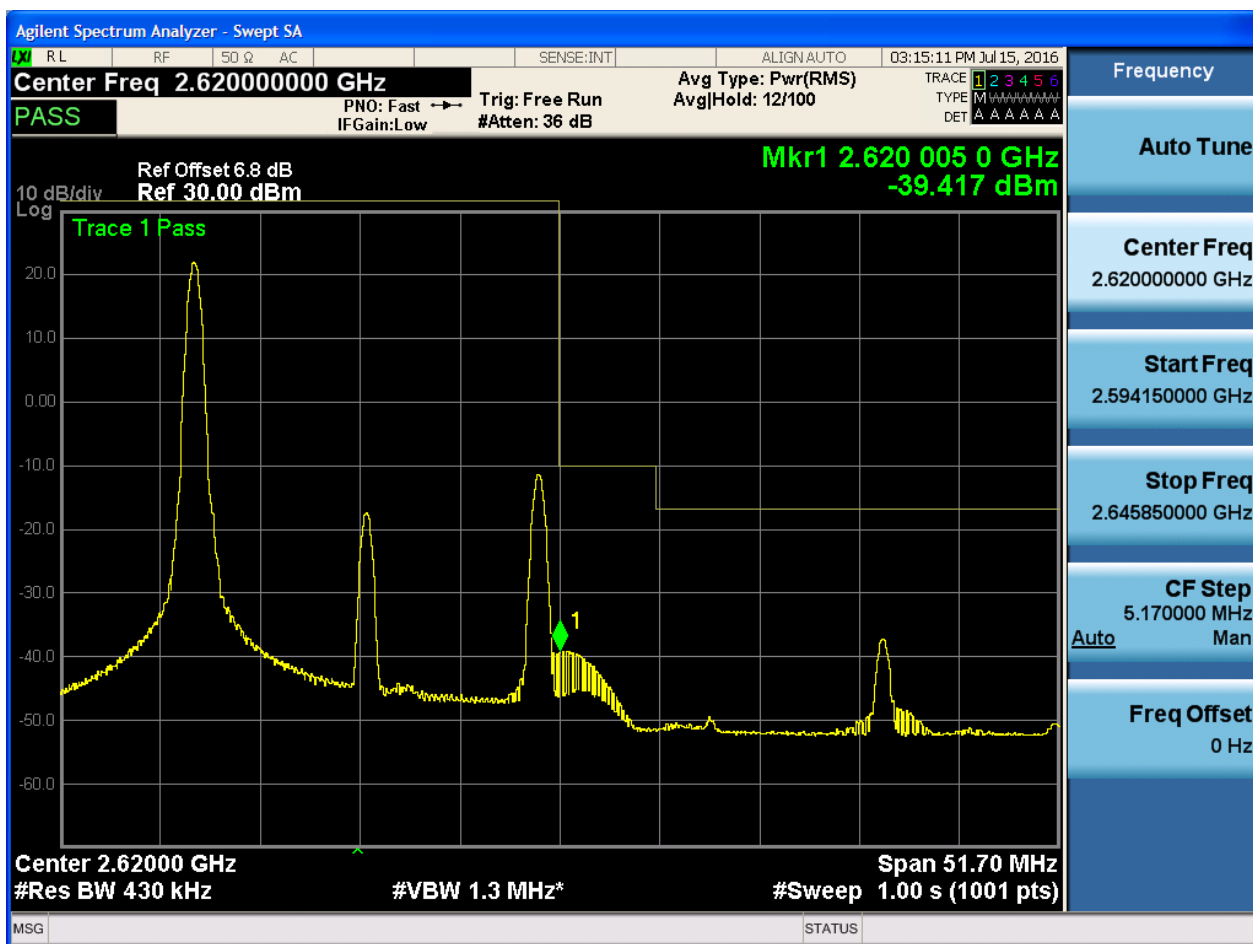
5.1.4.1.4.1.4 Test RB = RB100#0

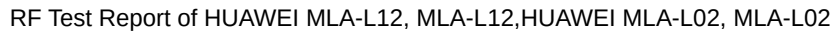




5.1.4.1.4.2 Test Channel = HCH

5.1.4.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.620 005 0 GHz
-26.034 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

Span 51.70 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.594150000 GHz

Stop Freq
2.645850000 GHz

CF Step
5.170000 MHz
Man

Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display area shows a swept spectrum plot with a yellow trace. A prominent peak is visible at 2.620005 GHz, marked with a green diamond and labeled '1'. The plot has a logarithmic scale on the y-axis, ranging from -60.0 to 20.0 dB/div. The x-axis represents frequency, with a center frequency of 2.620000 GHz and a span of 51.70 MHz. The resolution bandwidth (Res BW) is 430 kHz, and the video bandwidth (VBW) is 1.3 MHz. The sweep time is 1.00 s, resulting in 1001 points. The display also shows various control parameters such as PNO: Fast, IF Gain: Low, Trig: Free Run, and #Atten: 36 dB. The status bar at the bottom indicates the message (MSG) and status (STATUS) fields.



5.1.4.1.4.2.3 Test RB = RB50#25





5.1.4.1.4.2.4 Test RB = RB100#0



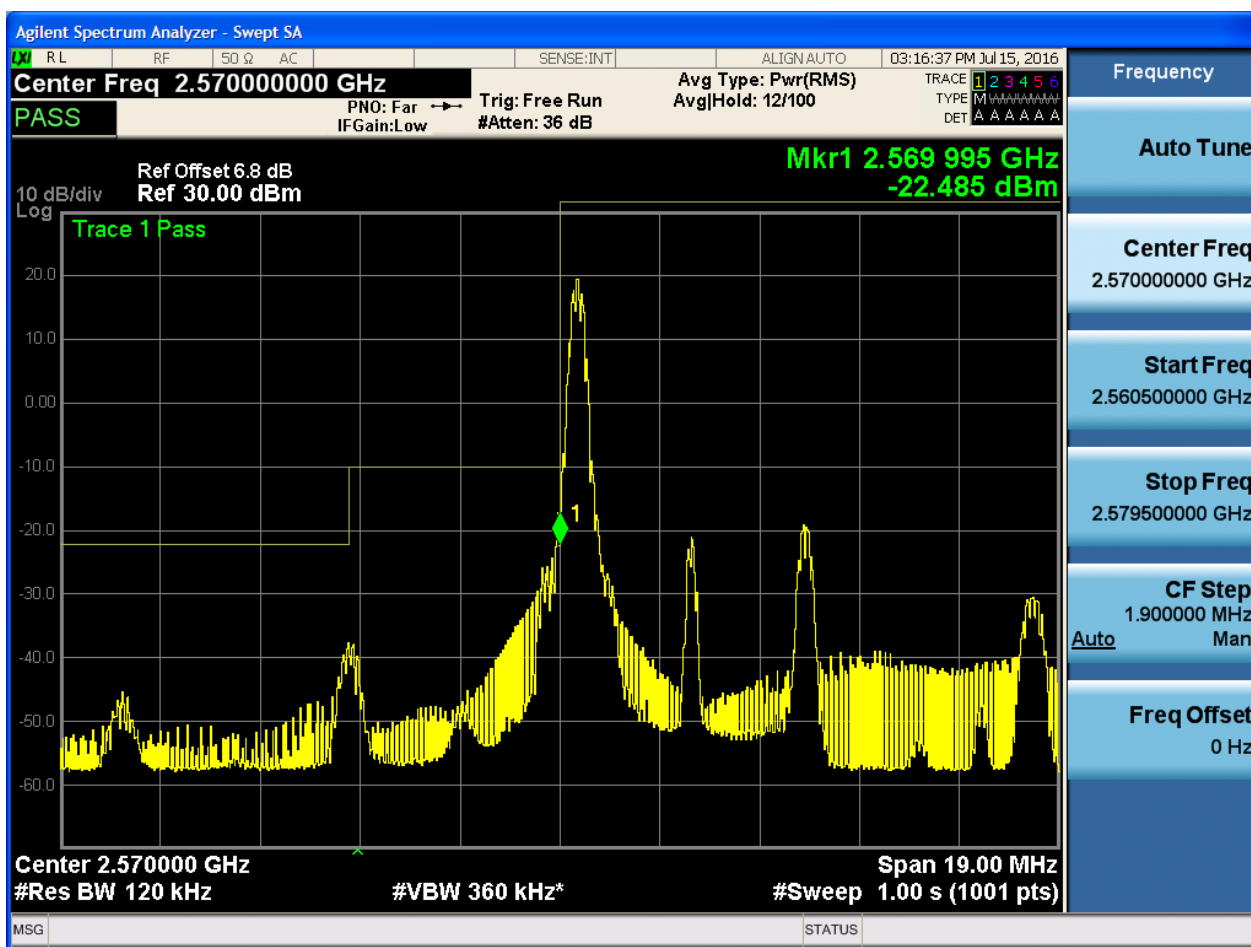


5.1.4.2 Test Mode = LTE/TM2

5.1.4.2.1 Test Bandwidth = 5

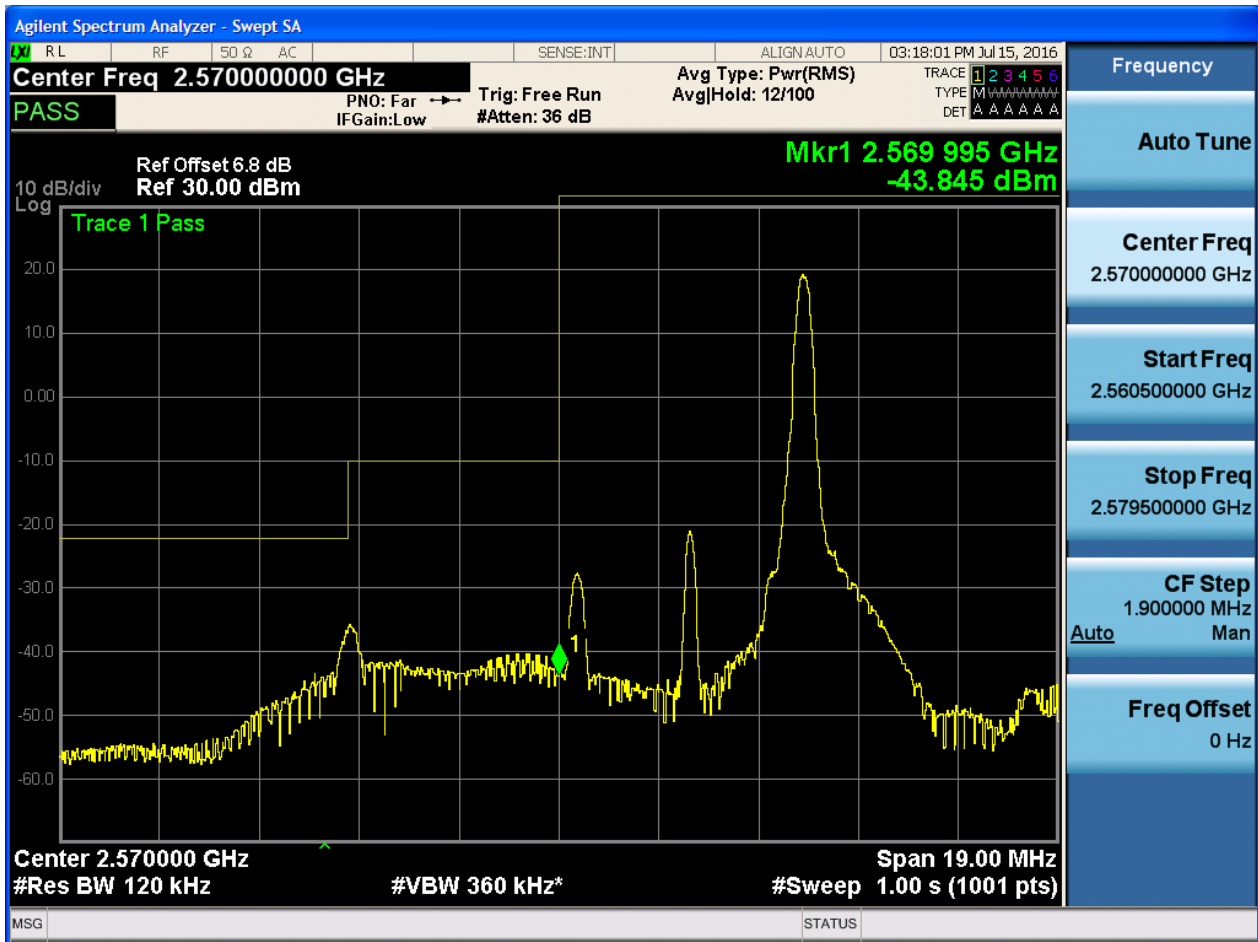
5.1.4.2.1.1 Test Channel = LCH

5.1.4.2.1.1.1 Test RB = RB1#0



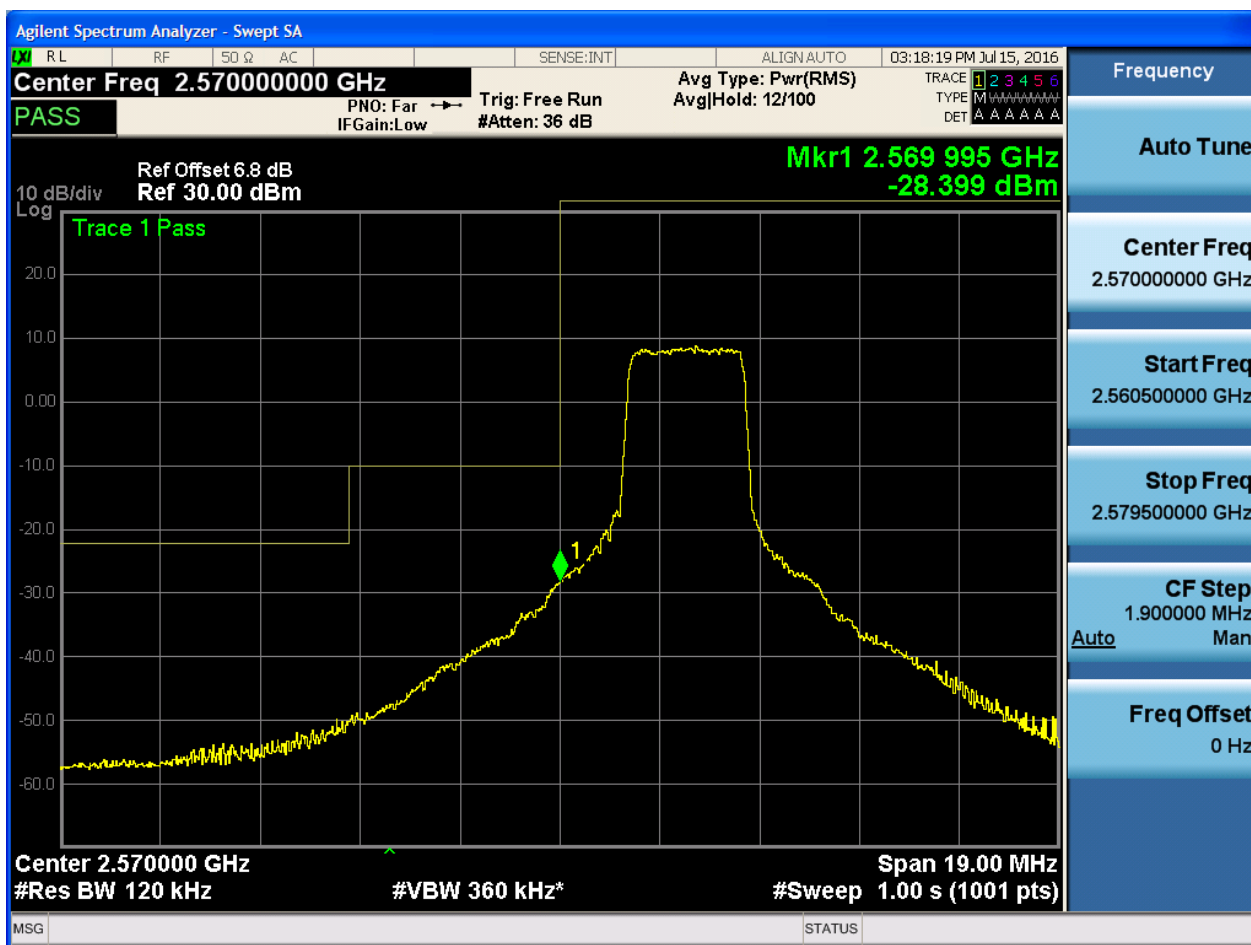


5.1.4.2.1.1.2 Test RB = RB1#24





5.1.4.2.1.1.3 Test RB = RB12#6





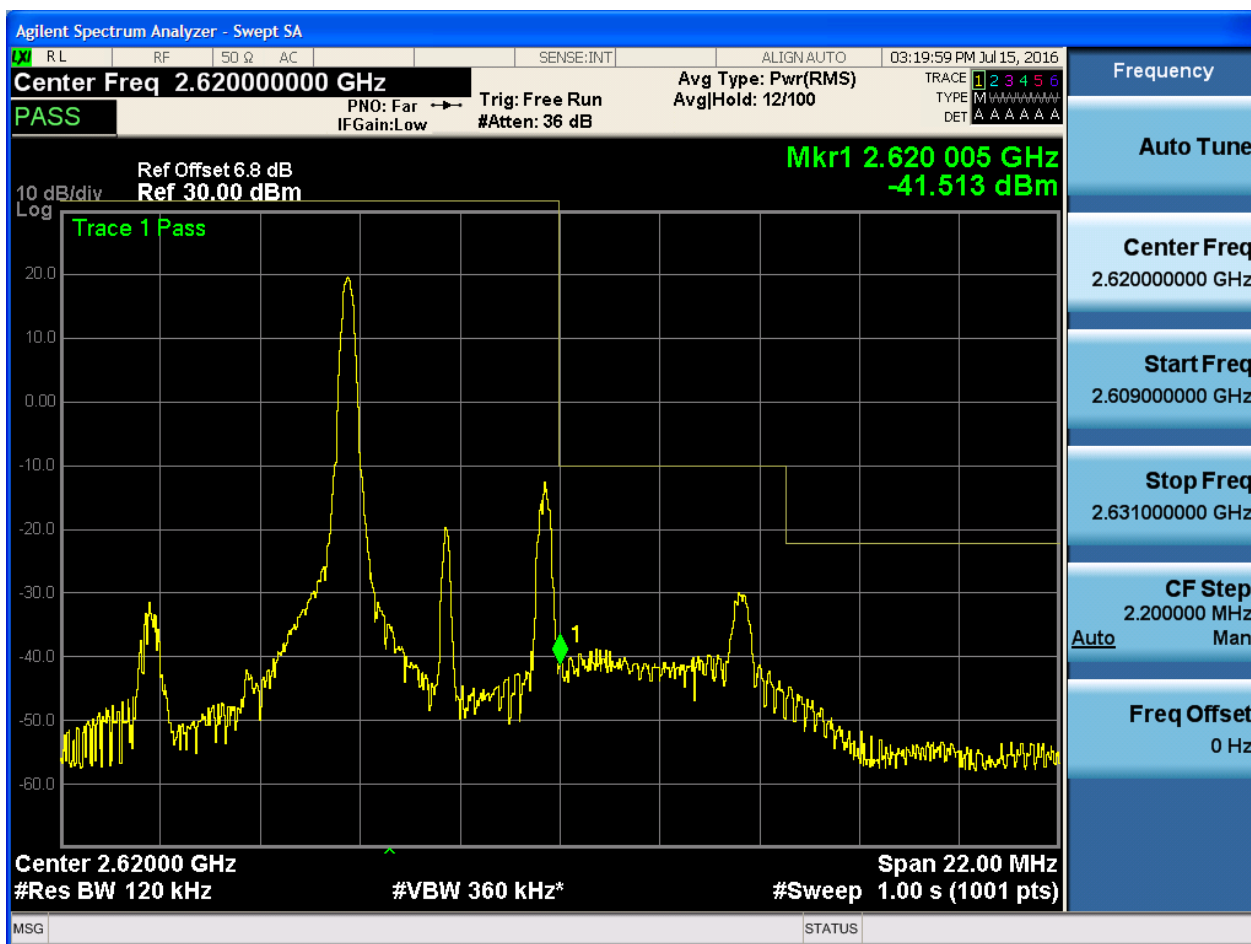
5.1.4.2.1.1.4 Test RB = RB25#0

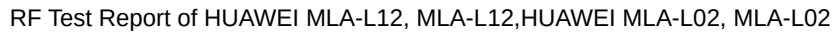




5.1.4.2.1.2 Test Channel = HCH

5.1.4.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-17.071 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

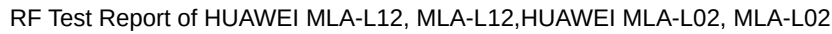
Start Freq
2.609000000 GHz

Stop Freq
2.631000000 GHz

CF Step
2.200000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of power spectral density (PSD) in dBm/Hz versus frequency. The plot shows a noisy baseline with several peaks. A prominent peak is marked with a green diamond and labeled '1'. The peak is at 2.620005 GHz with a power level of -17.071 dBm. The plot is labeled 'Trace 1 Pass'. The center frequency is 2.62000000 GHz, the resolution bandwidth (Res BW) is 120 kHz, and the video bandwidth (VBW) is 360 kHz. The span is 22.00 MHz. The sweep time is 1.00 s (1001 pts). The reference level is 30.00 dBm with a 6.8 dB offset. The marker is at 2.620005 GHz. The plot is labeled 'Mkr1 2.620 005 GHz -17.071 dBm'. The plot is labeled 'Trace 1 Pass'. The plot is labeled 'Center 2.62000 GHz #Res BW 120 kHz #VBW 360 kHz* Span 22.00 MHz #Sweep 1.00 s (1001 pts)'. The plot is labeled 'Frequency Auto Tune Center Freq 2.62000000 GHz Start Freq 2.609000000 GHz Stop Freq 2.631000000 GHz CF Step 2.200000 MHz Man Freq Offset 0 Hz'.



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-29.338 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

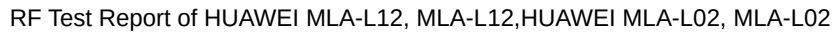
Center Freq
2.62000000 GHz

Start Freq
2.609000000 GHz

Stop Freq
2.631000000 GHz

CF Step
2.200000 MHz
Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Trace 1 Pass

Mkr1 2.620 005 GHz
-24.276 dBm

Center 2.62000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.609000000 GHz

Stop Freq
2.631000000 GHz

CF Step
2.200000 MHz
Man

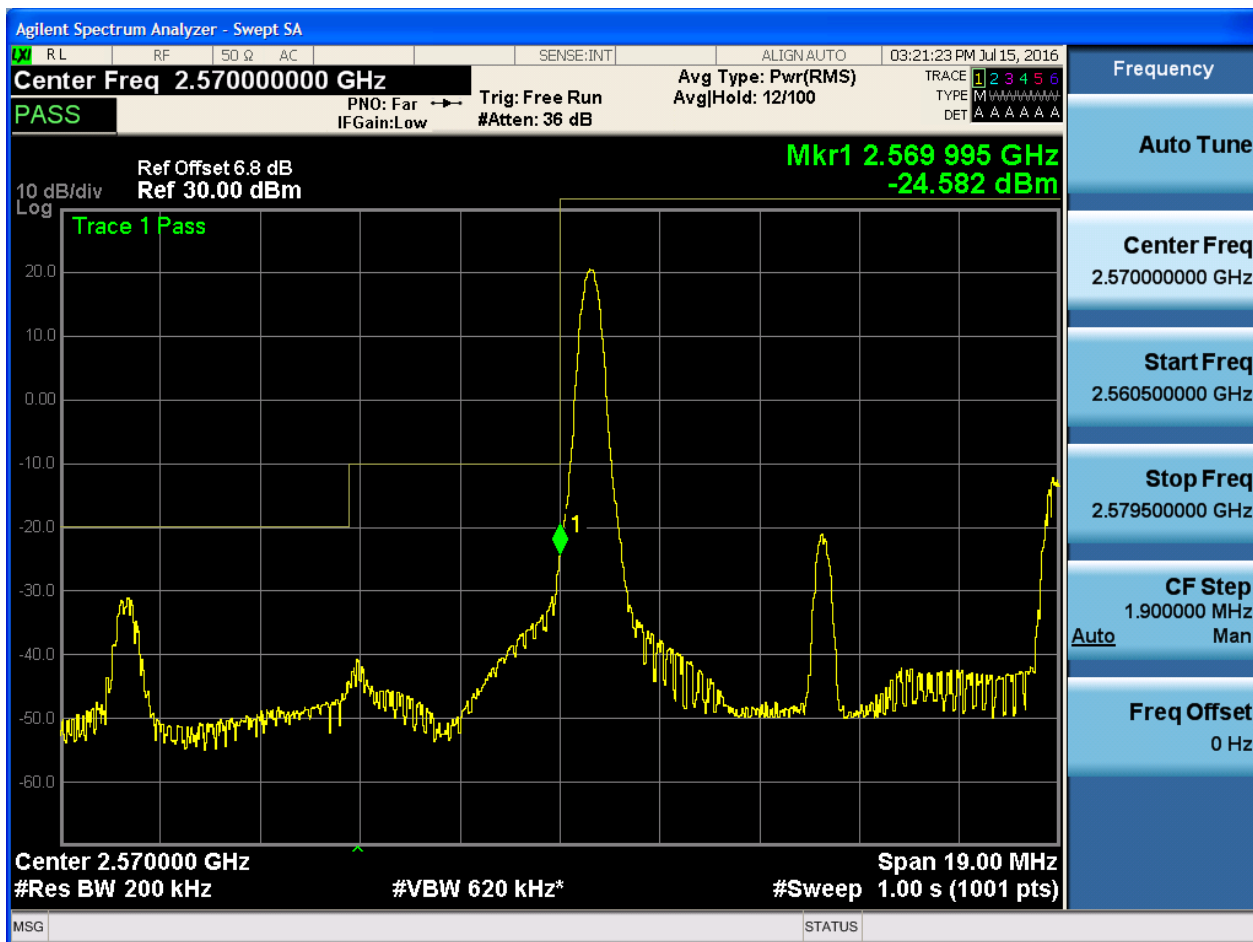
Freq Offset
0 Hz



5.1.4.2.2 Test Bandwidth = 10

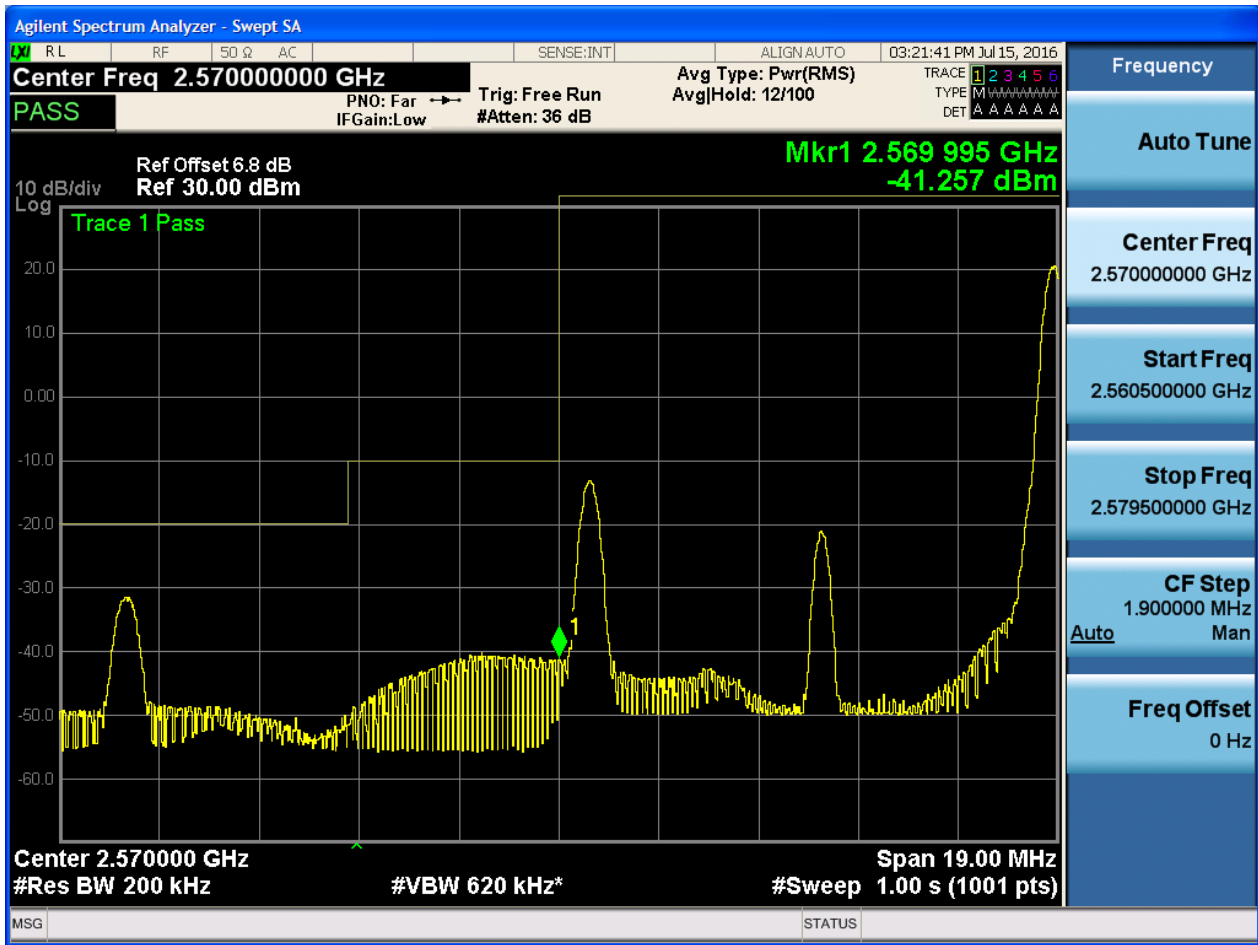
5.1.4.2.2.1 Test Channel = LCH

5.1.4.2.2.1.1 Test RB = RB1#0



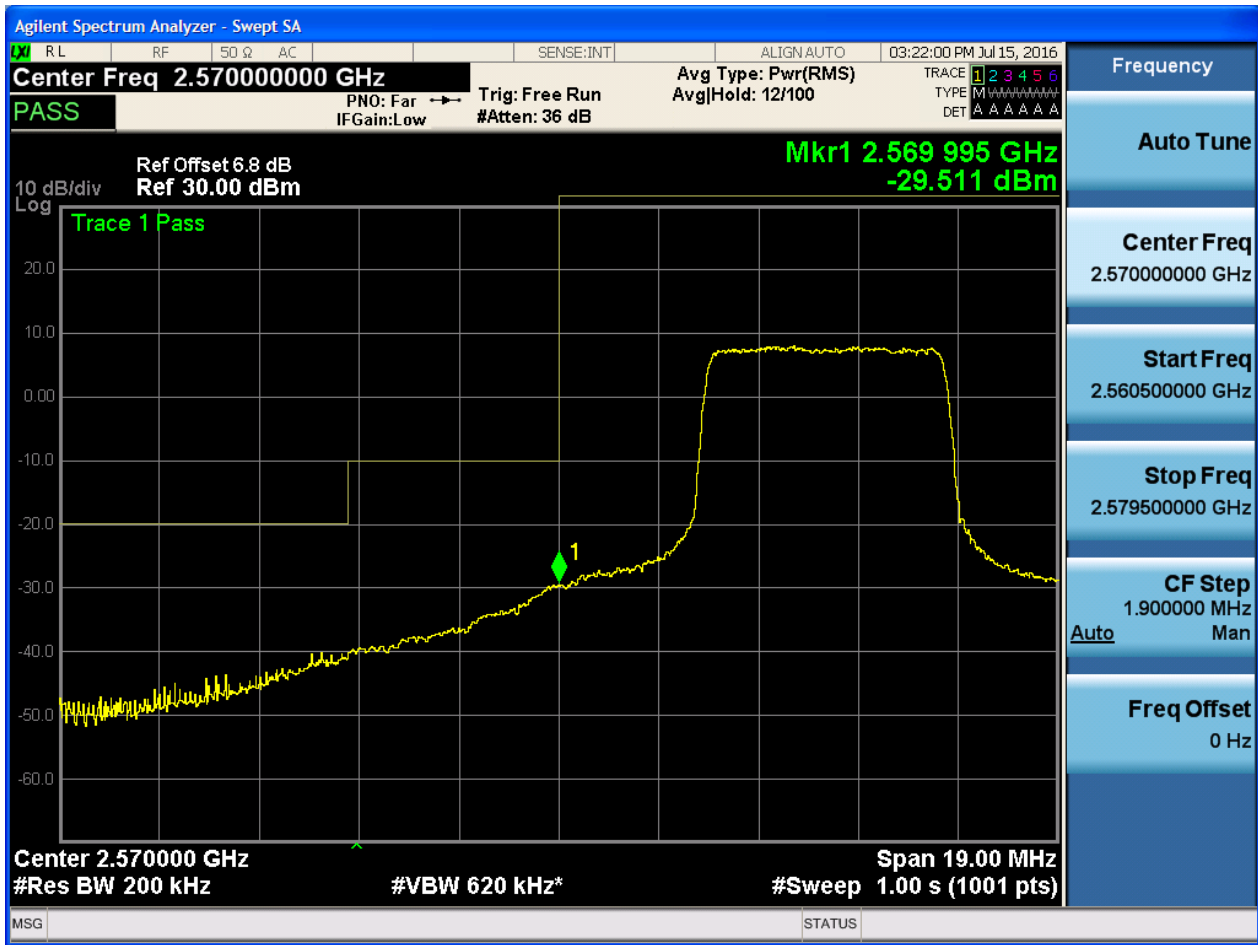


5.1.4.2.2.1.2 Test RB = RB1#49



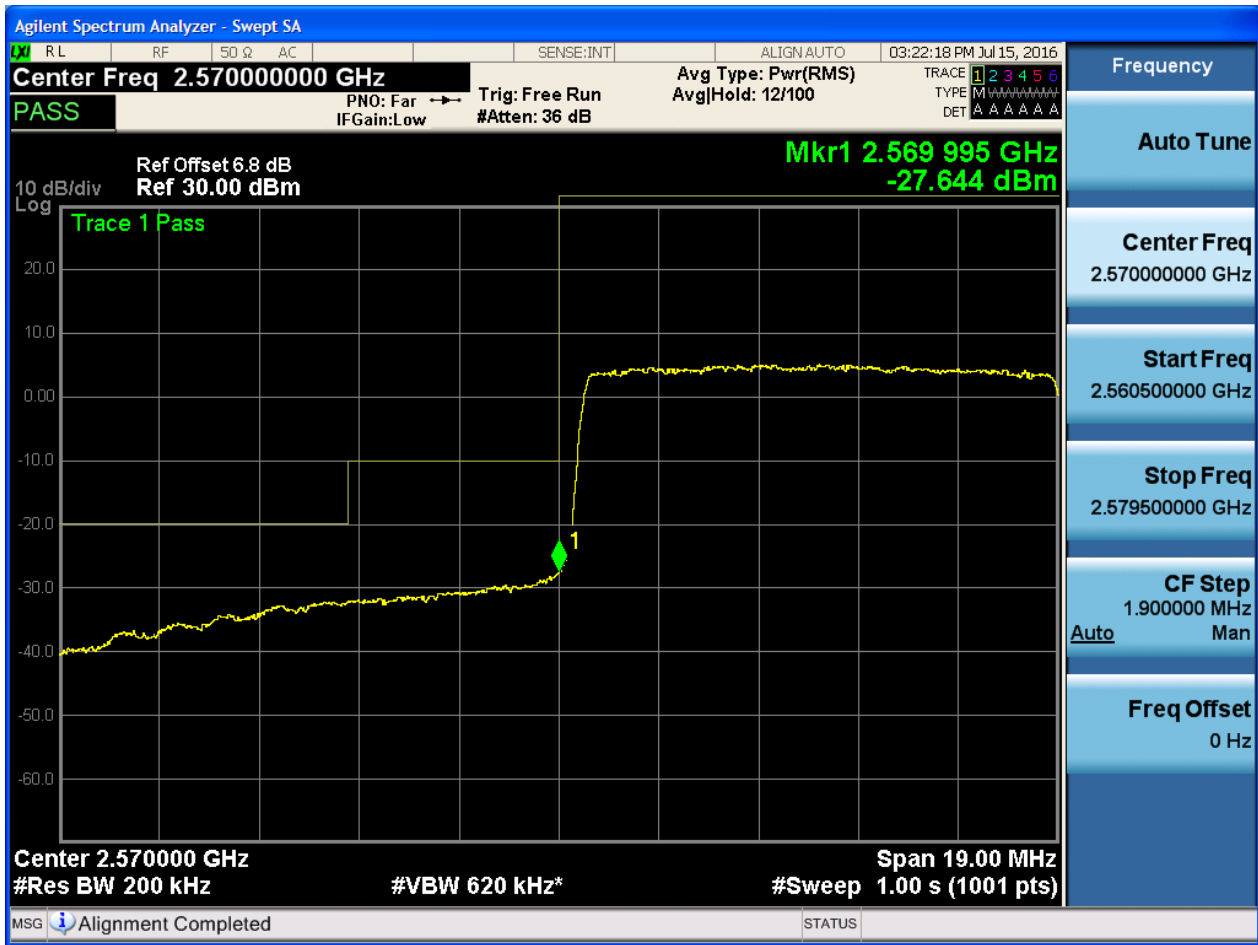


5.1.4.2.2.1.3 Test RB = RB25#13





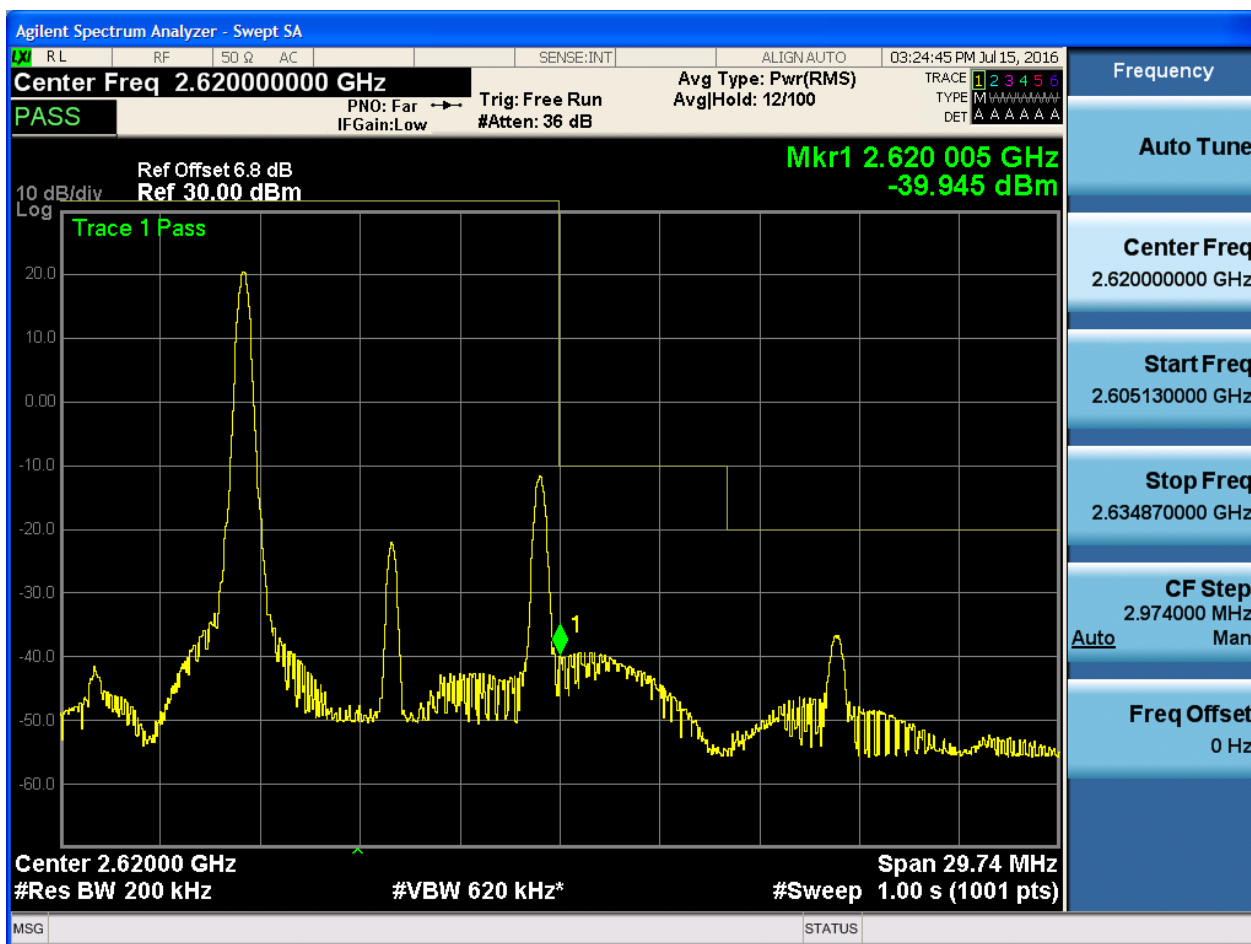
5.1.4.2.2.1.4 Test RB = RB50#0

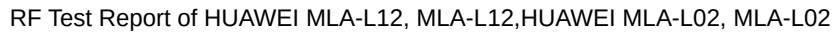




5.1.4.2.2.2 Test Channel = HCH

5.1.4.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.620 005 GHz
-25.351 dBm

Center 2.62000 GHz
#Res BW 200 kHz
#VBW 620 kHz*

Span 29.74 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.605130000 GHz

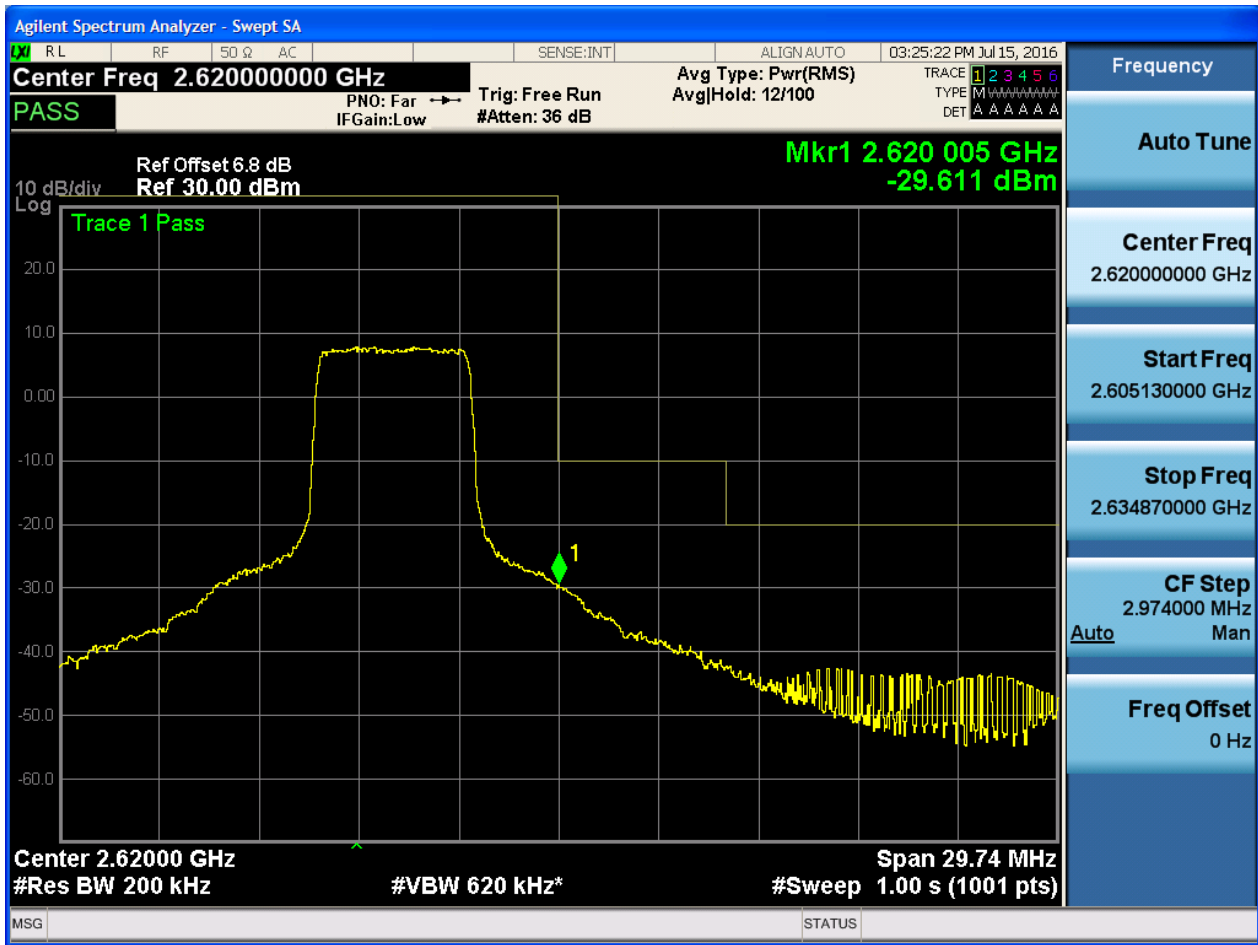
Stop Freq
2.634870000 GHz

CF Step
2.974000 MHz
Man

Freq Offset
0 Hz



5.1.4.2.2.3 Test RB = RB25#13





5.1.4.2.2.4 Test RB = RB50#0

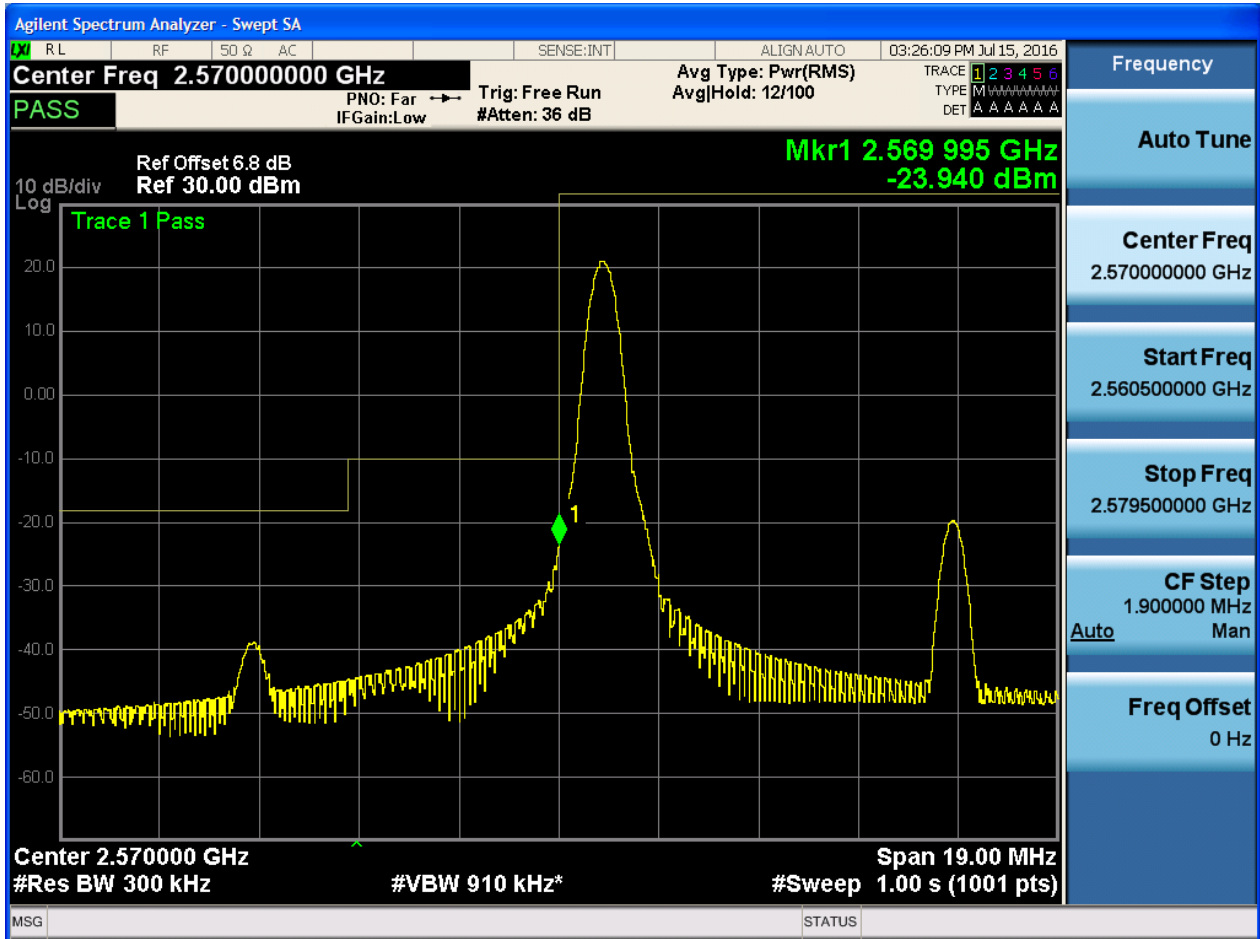




5.1.4.2.3 Test Bandwidth = 15

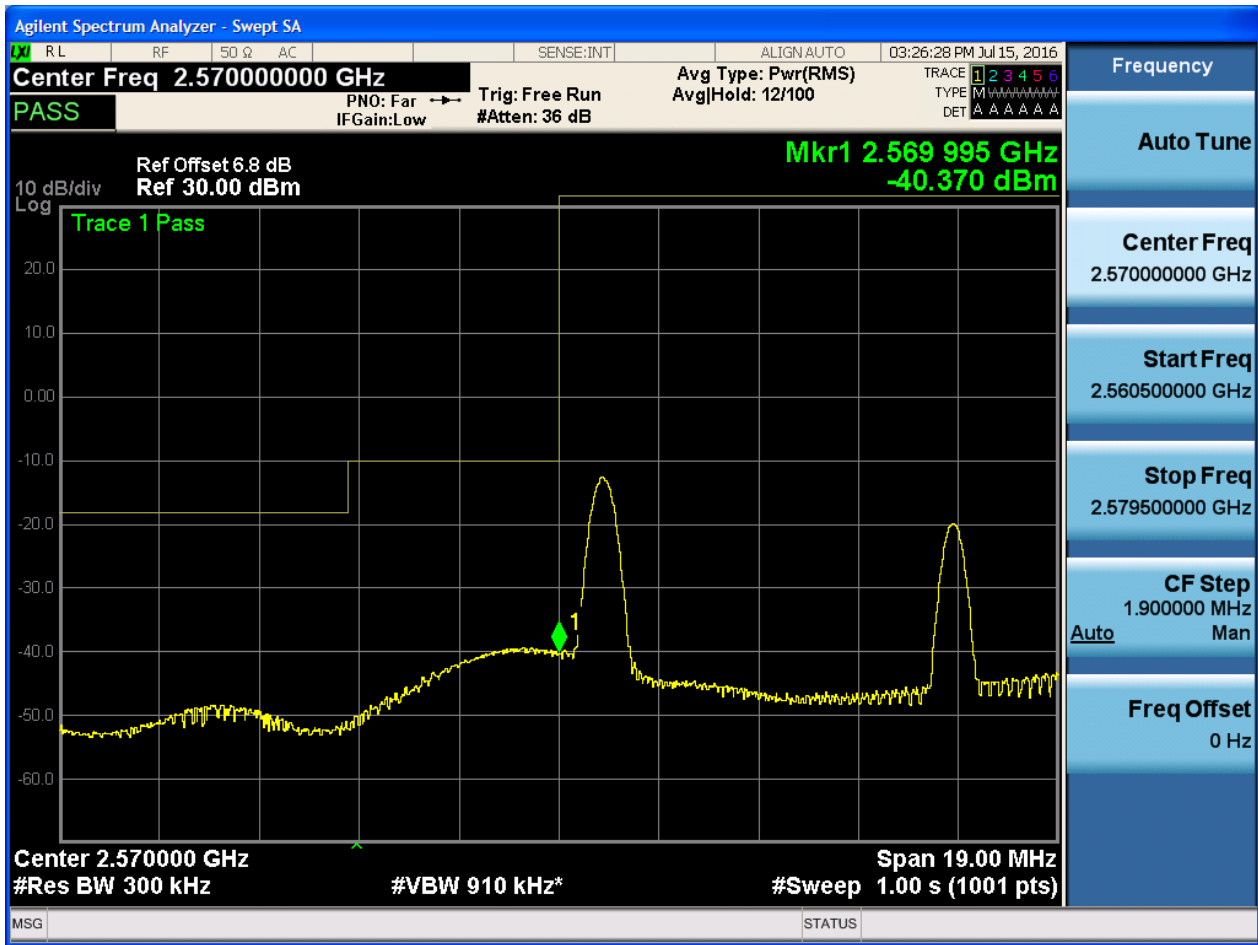
5.1.4.2.3.1 Test Channel = LCH

5.1.4.2.3.1.1 Test RB = RB1#0





5.1.4.2.3.1.2 Test RB = RB1#74



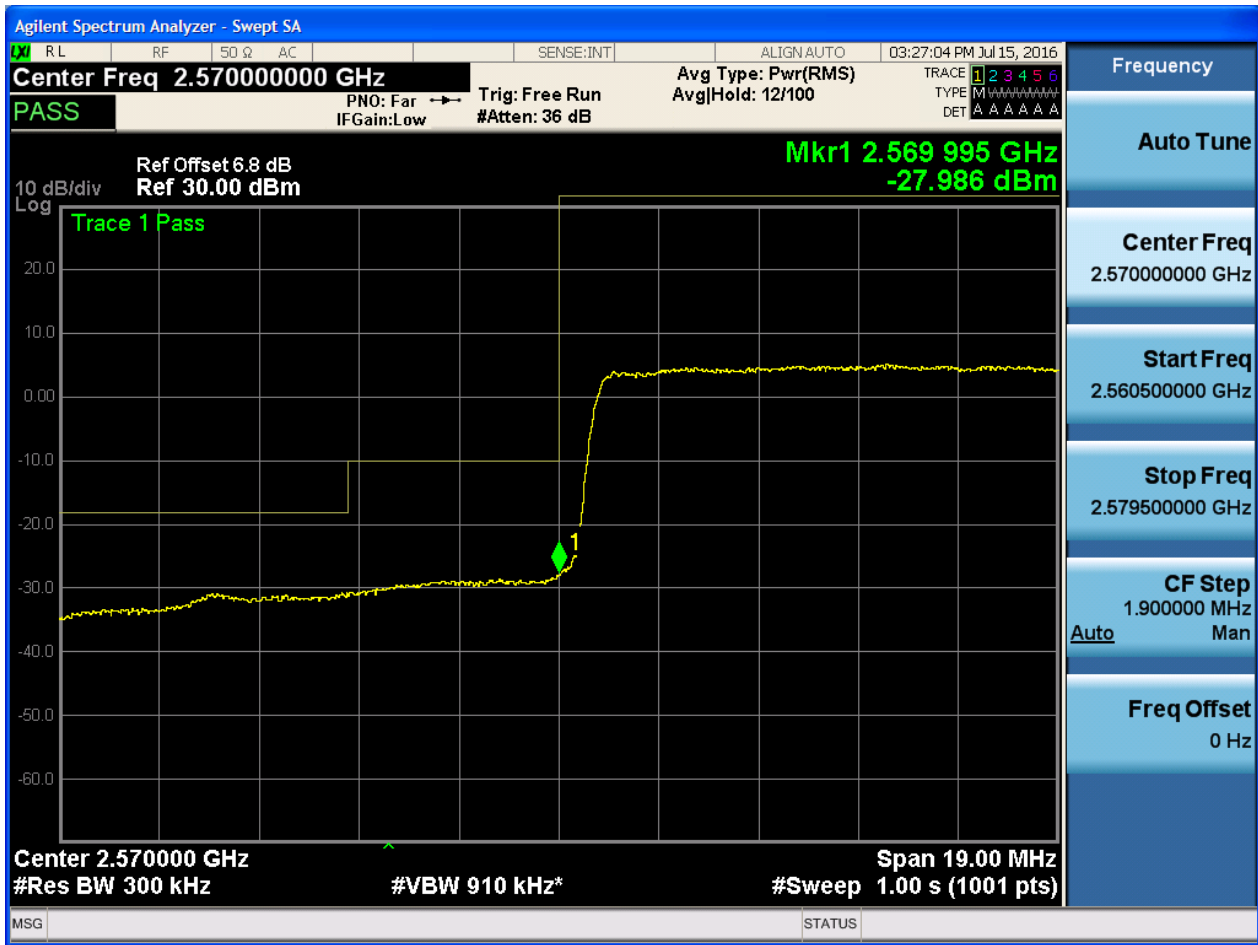


5.1.4.2.3.1.3 Test RB = RB36#18





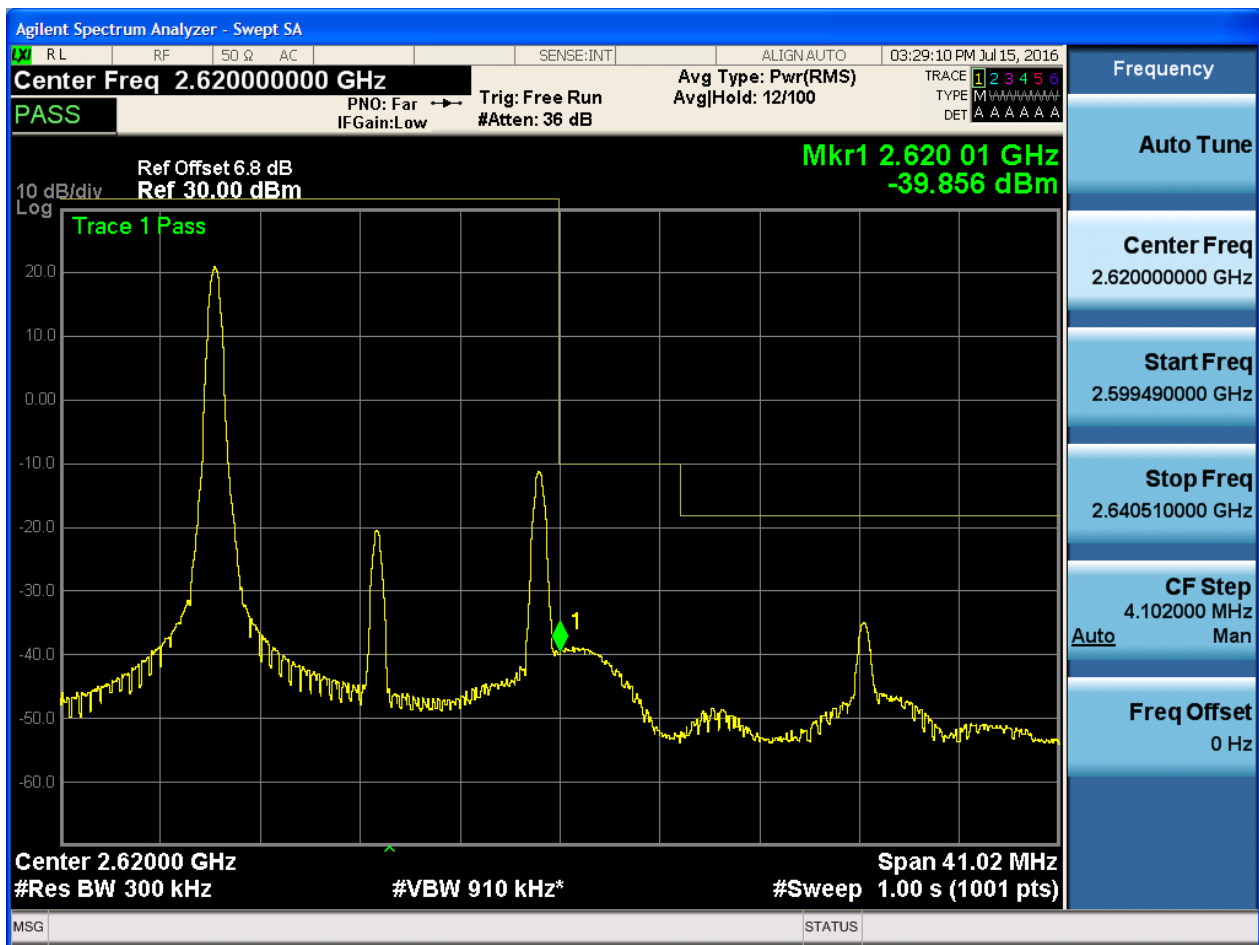
5.1.4.2.3.1.4 Test RB = RB75#0





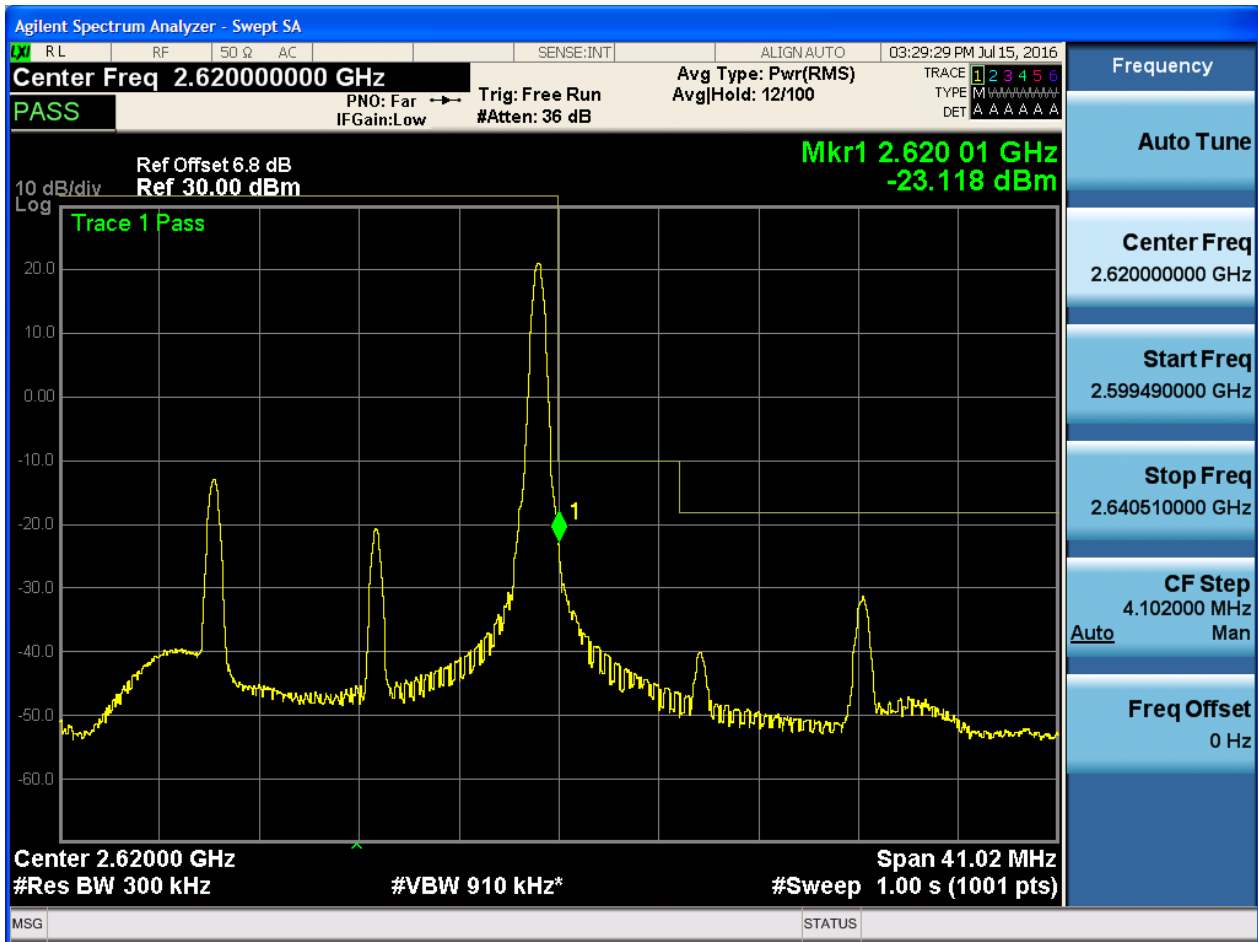
5.1.4.2.3.2 Test Channel = HCH

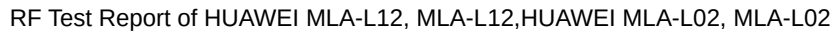
5.1.4.2.3.2.1 Test RB = RB1#0





5.1.4.2.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Mkr1 2.620 01 GHz
-31.389 dBm

Center 2.62000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 41.02 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.599490000 GHz

Stop Freq
2.640510000 GHz

CF Step
4.102000 MHz
Man

Freq Offset
0 Hz



5.1.4.2.3.2.4 Test RB = RB75#0

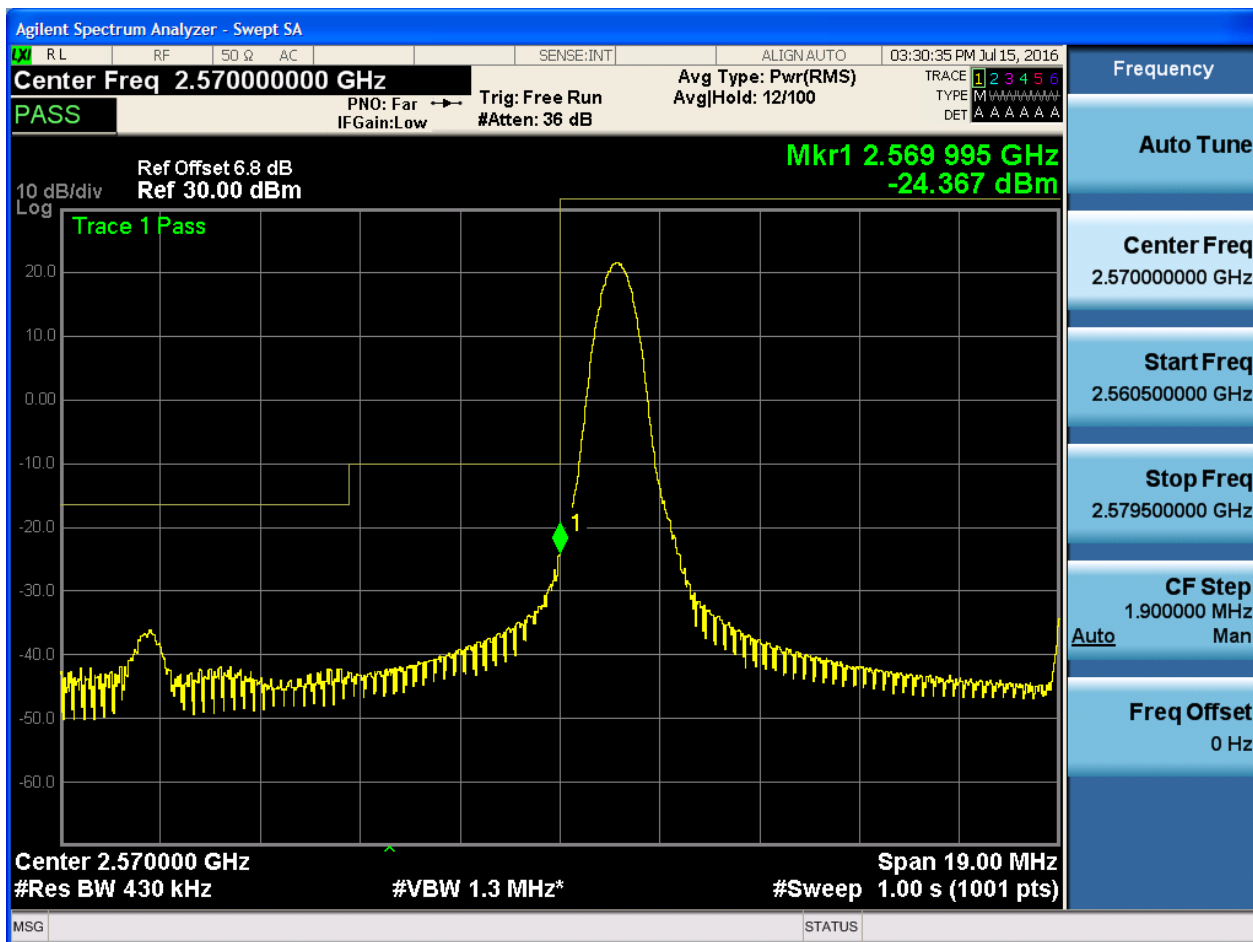




5.1.4.2.4 Test Bandwidth = 20

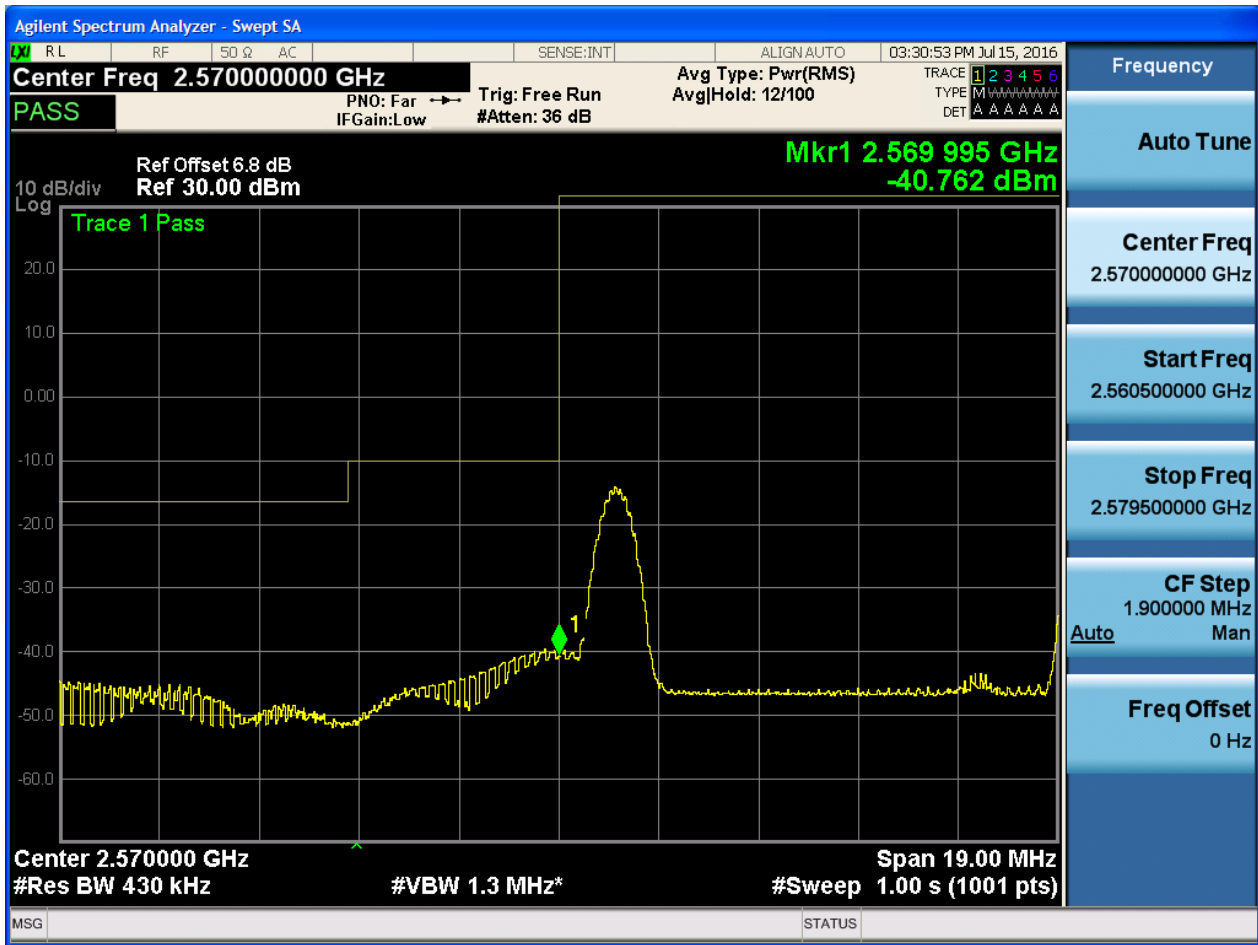
5.1.4.2.4.1 Test Channel = LCH

5.1.4.2.4.1.1 Test RB = RB1#0



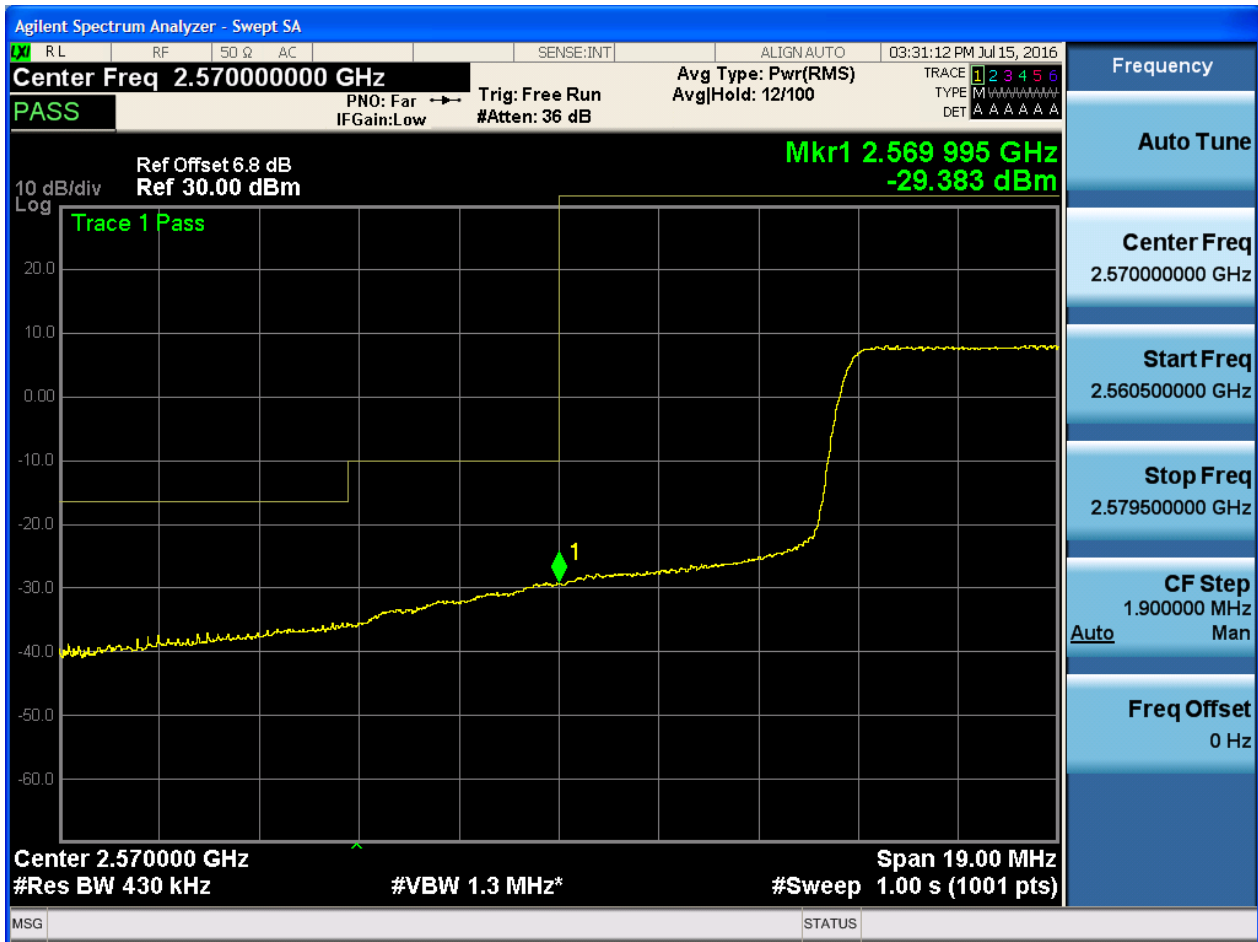


5.1.4.2.4.1.2 Test RB = RB1#99



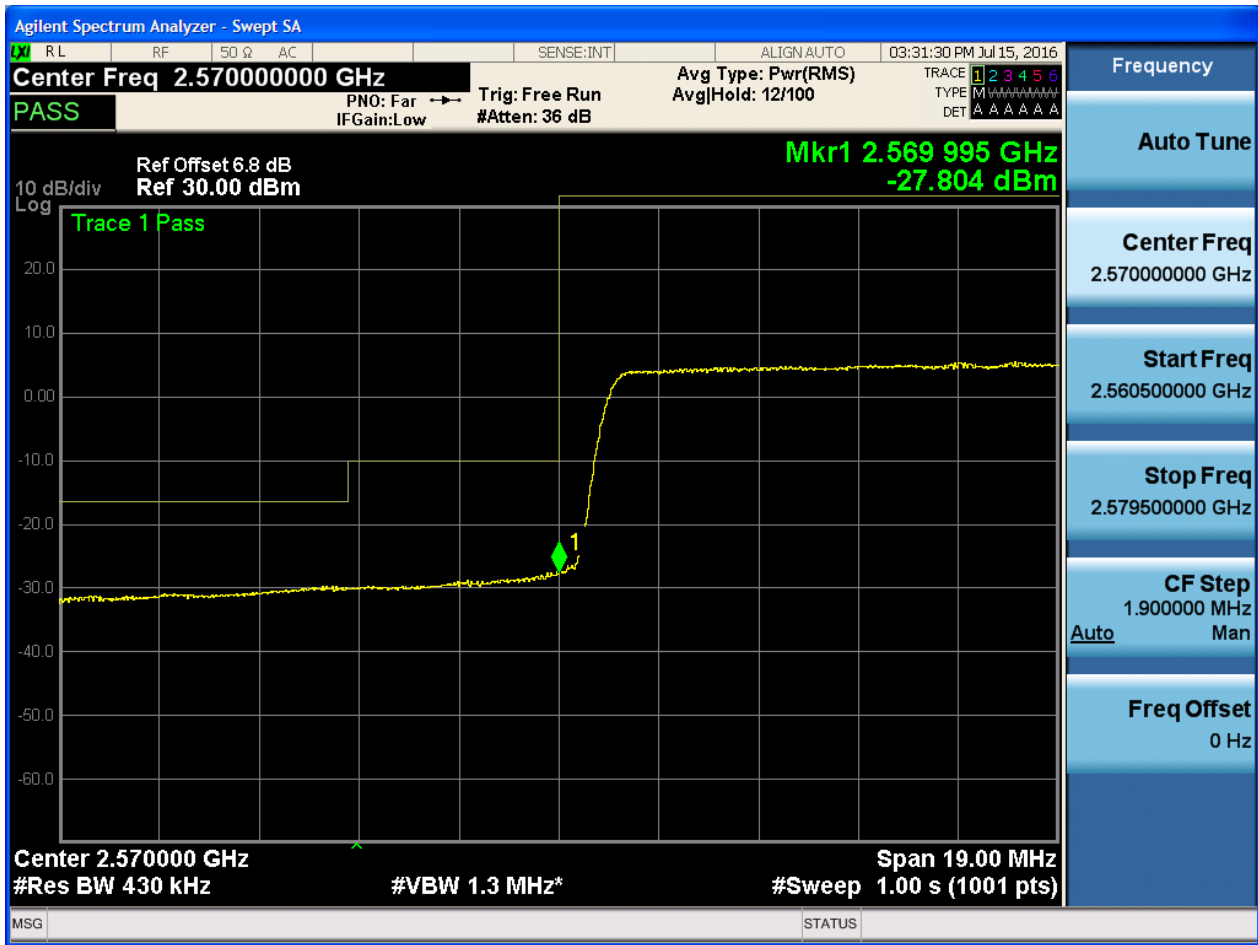


5.1.4.2.4.1.3 Test RB = RB50#25





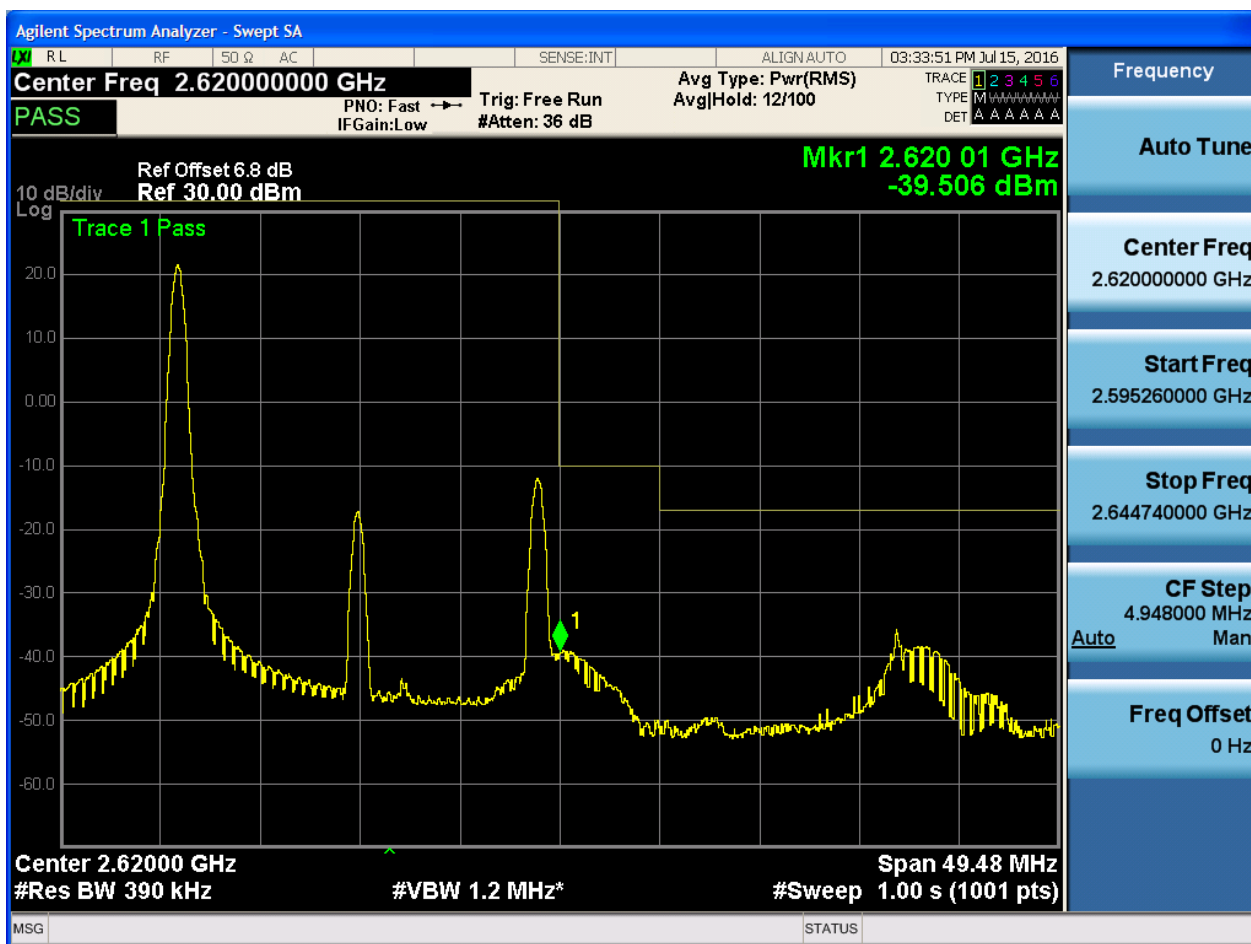
5.1.4.2.4.1.4 Test RB = RB100#0





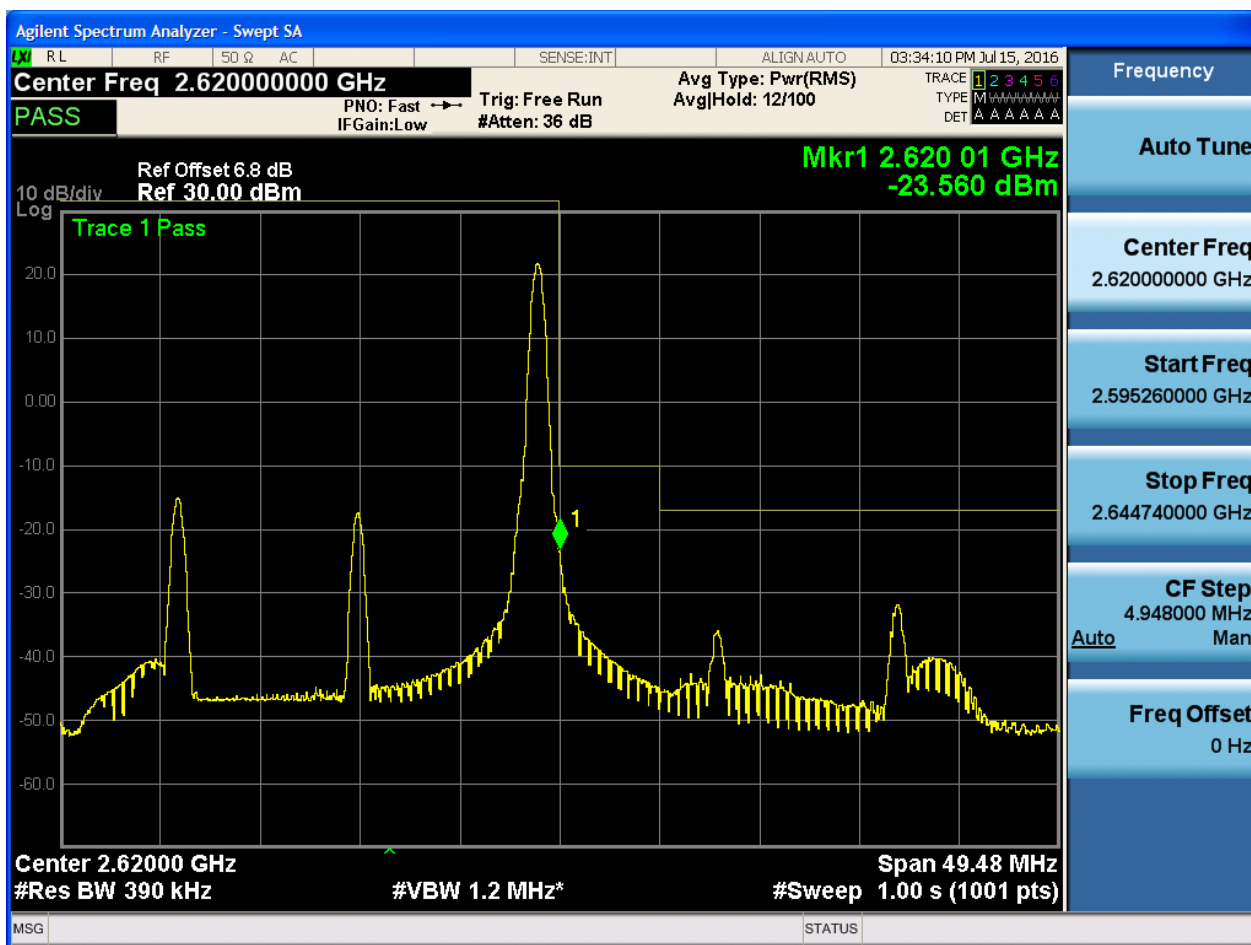
5.1.4.2.4.2 Test Channel = HCH

5.1.4.2.4.2.1 Test RB = RB1#0





5.1.4.2.4.2.2 Test RB = RB1#99





5.1.4.2.4.2.3 Test RB = RB50#25

