



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	22.33	23.13	33	PASS
				RB1#13	22.93	23.73	33	PASS
				RB1#24	22.07	22.87	33	PASS
				RB12#0	22	22.8	33	PASS
				RB12#6	22.1	22.9	33	PASS
				RB12#13	21.91	22.71	33	PASS
				RB25#0	21.94	22.74	33	PASS
			MCH	RB1#0	22.13	22.93	33	PASS
				RB1#13	23.05	23.85	33	PASS
				RB1#24	22.23	23.03	33	PASS
				RB12#0	22.06	22.86	33	PASS
				RB12#6	22.05	22.85	33	PASS
				RB12#13	21.88	22.68	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.89	22.69	33	PASS
			HCH	RB1#0	22.03	22.83	33	PASS
				RB1#13	22.68	23.48	33	PASS
				RB1#24	22.13	22.93	33	PASS
				RB12#0	21.87	22.67	33	PASS
				RB12#6	21.95	22.75	33	PASS
				RB12#13	21.78	22.58	33	PASS
				RB25#0	21.77	22.57	33	PASS
		10	LCH	RB1#0	22.44	23.24	33	PASS
				RB1#25	22.89	23.69	33	PASS
				RB1#49	22.52	23.32	33	PASS
				RB25#0	22.08	22.88	33	PASS
				RB25#13	21.93	22.73	33	PASS
				RB25#25	21.8	22.6	33	PASS
				RB50#0	22.02	22.82	33	PASS
			MCH	RB1#0	22.51	23.31	33	PASS
				RB1#25	23.03	23.83	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.82	23.62	33	PASS
				RB25#0	22.03	22.83	33	PASS
				RB25#13	21.96	22.76	33	PASS
				RB25#25	22.03	22.83	33	PASS
				RB50#0	21.88	22.68	33	PASS
			HCH	RB1#0	22.29	23.09	33	PASS
				RB1#25	22.64	23.44	33	PASS
				RB1#49	22.57	23.37	33	PASS
				RB25#0	21.72	22.52	33	PASS
				RB25#13	21.81	22.61	33	PASS
				RB25#25	21.77	22.57	33	PASS
				RB50#0	21.75	22.55	33	PASS
		15	LCH	RB1#0	22.81	23.61	33	PASS
				RB1#38	22.89	23.69	33	PASS
				RB1#74	22.31	23.11	33	PASS
				RB36#0	22.13	22.93	33	PASS
				RB36#18	21.95	22.75	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	21.76	22.56	33	PASS
				RB75#0	21.94	22.74	33	PASS
			MCH	RB1#0	22.58	23.38	33	PASS
				RB1#38	23.02	23.82	33	PASS
				RB1#74	22.72	23.52	33	PASS
				RB36#0	22.05	22.85	33	PASS
				RB36#18	22.09	22.89	33	PASS
				RB36#39	22.06	22.86	33	PASS
				RB75#0	21.98	22.78	33	PASS
			HCH	RB1#0	22.35	23.15	33	PASS
				RB1#38	22.5	23.3	33	PASS
				RB1#74	22.43	23.23	33	PASS
				RB36#0	21.72	22.52	33	PASS
				RB36#18	21.75	22.55	33	PASS
				RB36#39	21.72	22.52	33	PASS
				RB75#0	21.79	22.59	33	PASS
		20	LCH	RB1#0	23.17	23.97	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	22.76	23.56	33	PASS
				RB1#99	22.56	23.36	33	PASS
				RB50#0	22.21	23.01	33	PASS
				RB50#25	21.86	22.66	33	PASS
				RB50#50	21.65	22.45	33	PASS
				RB100#0	21.98	22.78	33	PASS
			MCH	RB1#0	22.85	23.65	33	PASS
				RB1#50	23.06	23.86	33	PASS
				RB1#99	23.08	23.88	33	PASS
				RB50#0	21.93	22.73	33	PASS
				RB50#25	22.01	22.81	33	PASS
				RB50#50	22.15	22.95	33	PASS
				RB100#0	22.05	22.85	33	PASS
			HCH	RB1#0	23.02	23.82	33	PASS
				RB1#50	22.48	23.28	33	PASS
				RB1#99	22.77	23.57	33	PASS
				RB50#0	22.2	23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	21.9	22.7	33	PASS
				RB50#50	21.74	22.54	33	PASS
				RB100#0	22.05	22.85	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.4	22.2	33	PASS
				RB1#13	22.25	23.05	33	PASS
				RB1#24	21.36	22.16	33	PASS
				RB12#0	21.09	21.89	33	PASS
				RB12#6	21.15	21.95	33	PASS
				RB12#13	20.92	21.72	33	PASS
				RB25#0	20.94	21.74	33	PASS
			MCH	RB1#0	21.63	22.43	33	PASS
				RB1#13	22.22	23.02	33	PASS
				RB1#24	21.48	22.28	33	PASS
				RB12#0	21.29	22.09	33	PASS
				RB12#6	21.29	22.09	33	PASS
				RB12#13	21.09	21.89	33	PASS
				RB25#0	20.98	21.78	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.62	22.42	33	PASS
				RB1#13	22.18	22.98	33	PASS
				RB1#24	21.53	22.33	33	PASS
				RB12#0	21.04	21.84	33	PASS
				RB12#6	21.08	21.88	33	PASS
				RB12#13	20.92	21.72	33	PASS
				RB25#0	20.85	21.65	33	PASS
		10	LCH	RB1#0	21.89	22.69	33	PASS
				RB1#25	22.26	23.06	33	PASS
				RB1#49	21.83	22.63	33	PASS
				RB25#0	21.04	21.84	33	PASS
				RB25#13	20.93	21.73	33	PASS
				RB25#25	20.82	21.62	33	PASS
				RB50#0	21	21.8	33	PASS
			MCH	RB1#0	21.93	22.73	33	PASS
				RB1#25	22.35	23.15	33	PASS
				RB1#49	22.2	23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.15	21.95	33	PASS
				RB25#13	21.12	21.92	33	PASS
				RB25#25	21.1	21.9	33	PASS
				RB50#0	20.99	21.79	33	PASS
			HCH	RB1#0	21.35	22.15	33	PASS
				RB1#25	21.88	22.68	33	PASS
				RB1#49	21.79	22.59	33	PASS
				RB25#0	20.88	21.68	33	PASS
				RB25#13	20.86	21.66	33	PASS
				RB25#25	20.84	21.64	33	PASS
				RB50#0	20.86	21.66	33	PASS
		15	LCH	RB1#0	22.04	22.84	33	PASS
				RB1#38	22.15	22.95	33	PASS
				RB1#74	21.56	22.36	33	PASS
				RB36#0	21.06	21.86	33	PASS
				RB36#18	20.96	21.76	33	PASS
				RB36#39	20.66	21.46	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.87	21.67	33	PASS
			MCH	RB1#0	21.95	22.75	33	PASS
				RB1#38	22.32	23.12	33	PASS
				RB1#74	22.1	22.9	33	PASS
				RB36#0	21.13	21.93	33	PASS
				RB36#18	21.17	21.97	33	PASS
				RB36#39	21.13	21.93	33	PASS
				RB75#0	21.03	21.83	33	PASS
			HCH	RB1#0	21.78	22.58	33	PASS
				RB1#38	21.98	22.78	33	PASS
				RB1#74	21.94	22.74	33	PASS
				RB36#0	20.84	21.64	33	PASS
				RB36#18	20.93	21.73	33	PASS
				RB36#39	20.9	21.7	33	PASS
				RB75#0	20.91	21.71	33	PASS
		20	LCH	RB1#0	22.57	23.37	33	PASS
				RB1#50	22.27	23.07	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.99	22.79	33	PASS
				RB50#0	21.15	21.95	33	PASS
				RB50#25	20.82	21.62	33	PASS
				RB50#50	20.65	21.45	33	PASS
				RB100#0	20.94	21.74	33	PASS
			MCH	RB1#0	22.25	23.05	33	PASS
				RB1#50	22.42	23.22	33	PASS
				RB1#99	22.49	23.29	33	PASS
				RB50#0	21.03	21.83	33	PASS
				RB50#25	21.13	21.93	33	PASS
				RB50#50	21.21	22.01	33	PASS
				RB100#0	21.1	21.9	33	PASS
			HCH	RB1#0	22.44	23.24	33	PASS
				RB1#50	22.07	22.87	33	PASS
				RB1#99	22.32	23.12	33	PASS
				RB50#0	21.21	22.01	33	PASS
				RB50#25	21.05	21.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.84	21.64	33	PASS
				RB100#0	21.09	21.89	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:

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

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

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

$$\text{SET Sweep time} = \text{auto-couple.}$$

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	4.54	13	PASS
				RB1#13	4.27	13	PASS
				RB1#24	4.57	13	PASS
				RB12#0	5.55	13	PASS
				RB12#6	5.45	13	PASS
				RB12#13	5.66	13	PASS
				RB25#0	5.99	13	PASS
			MCH	RB1#0	4.76	13	PASS
				RB1#13	4.46	13	PASS
				RB1#24	4.65	13	PASS
				RB12#0	5.82	13	PASS
				RB12#6	5.7	13	PASS
				RB12#13	5.83	13	PASS
				RB25#0	6.18	13	PASS
			HCH	RB1#0	4.98	13	PASS
				RB1#13	4.97	13	PASS
				RB1#24	5.06	13	PASS
				RB12#0	5.7	13	PASS
				RB12#6	5.76	13	PASS
				RB12#13	5.74	13	PASS
				RB25#0	6.02	13	PASS
		10	LCH	RB1#0	4.37	13	PASS
				RB1#25	4.3	13	PASS
				RB1#49	4.86	13	PASS
				RB25#0	5.59	13	PASS
				RB25#13	5.71	13	PASS
				RB25#25	5.86	13	PASS
				RB50#0	6.1	13	PASS
			MCH	RB1#0	4.93	13	PASS
				RB1#25	4.47	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.59	13	PASS
				RB25#0	5.93	13	PASS
				RB25#13	5.88	13	PASS
				RB25#25	5.87	13	PASS
				RB50#0	6.32	13	PASS
			HCH	RB1#0	5.03	13	PASS
				RB1#25	4.82	13	PASS
				RB1#49	4.99	13	PASS
				RB25#0	5.79	13	PASS
				RB25#13	5.9	13	PASS
				RB25#25	5.8	13	PASS
				RB50#0	6.28	13	PASS
		15	LCH	RB1#0	4.61	13	PASS
				RB1#38	4.63	13	PASS
				RB1#74	5.22	13	PASS
				RB36#0	5.74	13	PASS
				RB36#18	6.04	13	PASS
				RB36#39	6.28	13	PASS
				RB75#0	6.38	13	PASS
			MCH	RB1#0	5.18	13	PASS
				RB1#38	4.45	13	PASS
				RB1#74	4.66	13	PASS
				RB36#0	6.08	13	PASS
				RB36#18	5.92	13	PASS
				RB36#39	5.96	13	PASS
				RB75#0	6.32	13	PASS
			HCH	RB1#0	5.3	13	PASS
				RB1#38	4.91	13	PASS
				RB1#74	5.1	13	PASS
				RB36#0	6.32	13	PASS
				RB36#18	6.23	13	PASS
				RB36#39	6.13	13	PASS
				RB75#0	6.48	13	PASS
		20	LCH	RB1#0	4.46	13	PASS
				RB1#50	4.94	13	PASS
				RB1#99	5.59	13	PASS
				RB50#0	5.81	13	PASS
				RB50#25	6.28	13	PASS
				RB50#50	6.31	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	6.33	13	PASS
			MCH	RB1#0	5.36	13	PASS
				RB1#50	4.54	13	PASS
				RB1#99	4.81	13	PASS
				RB50#0	6.24	13	PASS
				RB50#25	6.04	13	PASS
				RB50#50	5.92	13	PASS
				RB100#0	6.26	13	PASS
			HCH	RB1#0	4.99	13	PASS
				RB1#50	4.88	13	PASS
				RB1#99	5	13	PASS
				RB50#0	6.13	13	PASS
				RB50#25	6.15	13	PASS
				RB50#50	6.11	13	PASS
				RB100#0	6.25	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.02	13	PASS
				RB1#13	4.99	13	PASS
				RB1#24	5.21	13	PASS
				RB12#0	6.49	13	PASS
				RB12#6	6.24	13	PASS
				RB12#13	6.35	13	PASS
				RB25#0	6.45	13	PASS
			MCH	RB1#0	5.4	13	PASS
				RB1#13	5.3	13	PASS
				RB1#24	5.42	13	PASS
				RB12#0	6.59	13	PASS
				RB12#6	6.55	13	PASS
				RB12#13	6.61	13	PASS
				RB25#0	6.89	13	PASS
			HCH	RB1#0	5.51	13	PASS
				RB1#13	5.7	13	PASS
				RB1#24	5.63	13	PASS
				RB12#0	6.63	13	PASS
				RB12#6	6.61	13	PASS
				RB12#13	6.41	13	PASS
				RB25#0	7.08	13	PASS
		10	LCH	RB1#0	5.06	13	PASS
				RB1#25	5.11	13	PASS
				RB1#49	5.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.25	13	PASS
				RB25#13	6.49	13	PASS
				RB25#25	6.6	13	PASS
				RB50#0	6.9	13	PASS
			MCH	RB1#0	5.5	13	PASS
				RB1#25	5.19	13	PASS
				RB1#49	5.25	13	PASS
				RB25#0	6.59	13	PASS
				RB25#13	6.57	13	PASS
				RB25#25	6.59	13	PASS
				RB50#0	7.02	13	PASS
			HCH	RB1#0	5.69	13	PASS
				RB1#25	5.81	13	PASS
				RB1#49	5.78	13	PASS
				RB25#0	6.46	13	PASS
				RB25#13	6.78	13	PASS
				RB25#25	6.5	13	PASS
				RB50#0	6.89	13	PASS
		15	LCH	RB1#0	5.42	13	PASS
				RB1#38	5.4	13	PASS
				RB1#74	6.09	13	PASS
				RB36#0	6.31	13	PASS
				RB36#18	6.58	13	PASS
				RB36#39	6.71	13	PASS
				RB75#0	7.1	13	PASS
			MCH	RB1#0	5.9	13	PASS
				RB1#38	5.12	13	PASS
				RB1#74	5.39	13	PASS
				RB36#0	6.68	13	PASS
				RB36#18	6.59	13	PASS
				RB36#39	6.6	13	PASS
				RB75#0	7.32	13	PASS
			HCH	RB1#0	6.18	13	PASS
				RB1#38	5.98	13	PASS
				RB1#74	5.84	13	PASS
				RB36#0	6.61	13	PASS
				RB36#18	6.73	13	PASS
				RB36#39	6.63	13	PASS
				RB75#0	7.37	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	4.99	13	PASS
				RB1#50	5.27	13	PASS
				RB1#99	5.74	13	PASS
				RB50#0	6.45	13	PASS
				RB50#25	6.8	13	PASS
				RB50#50	7.2	13	PASS
				RB100#0	7.46	13	PASS
			MCH	RB1#0	5.58	13	PASS
				RB1#50	4.93	13	PASS
				RB1#99	5.13	13	PASS
				RB50#0	6.84	13	PASS
				RB50#25	6.74	13	PASS
				RB50#50	6.65	13	PASS
				RB100#0	7.27	13	PASS
			HCH	RB1#0	5.37	13	PASS
				RB1#50	5.43	13	PASS
				RB1#99	5.4	13	PASS
				RB50#0	6.59	13	PASS
				RB50#25	6.81	13	PASS
				RB50#50	6.73	13	PASS
				RB100#0	7.19	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

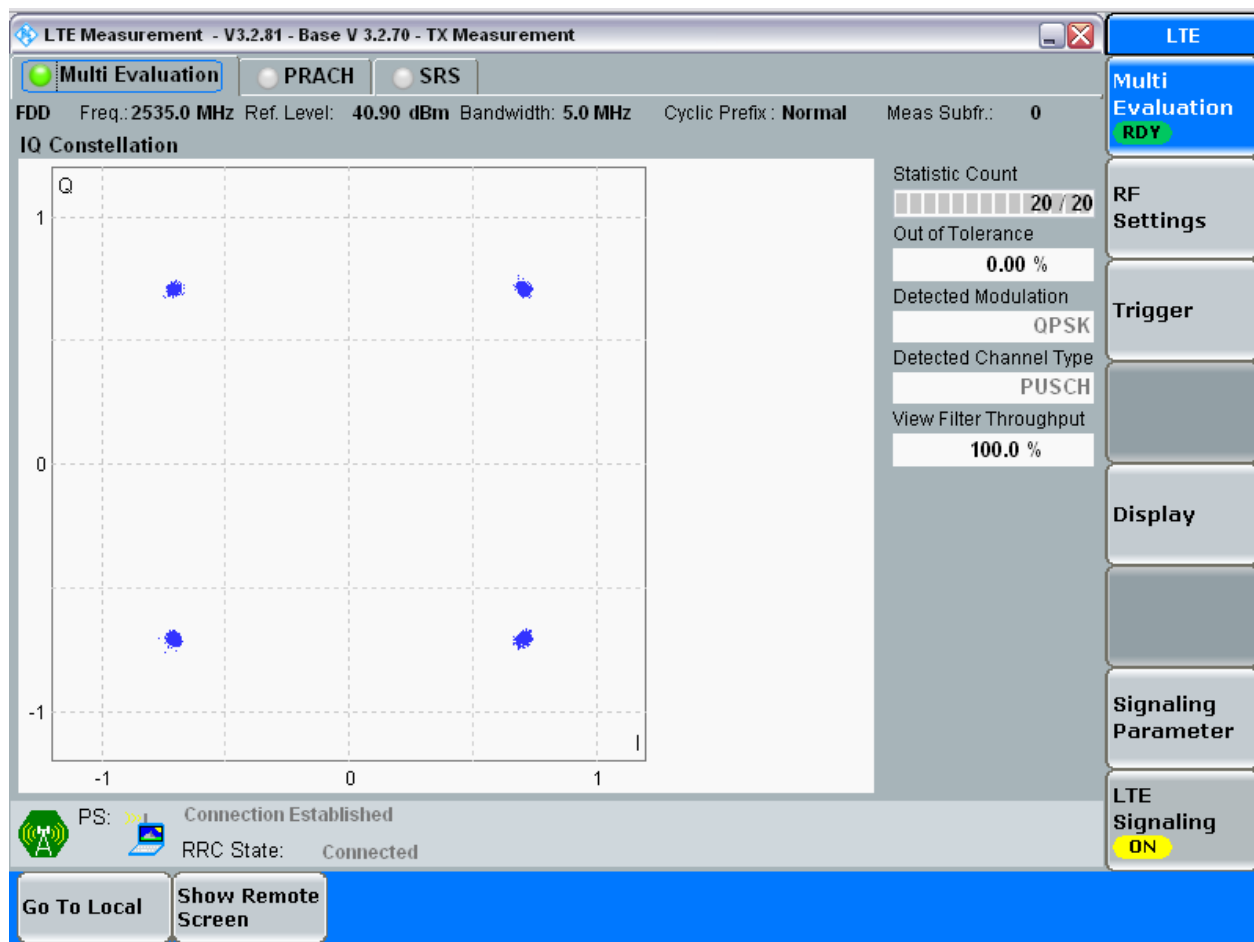
3.1.1 Test Band = BAND7

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

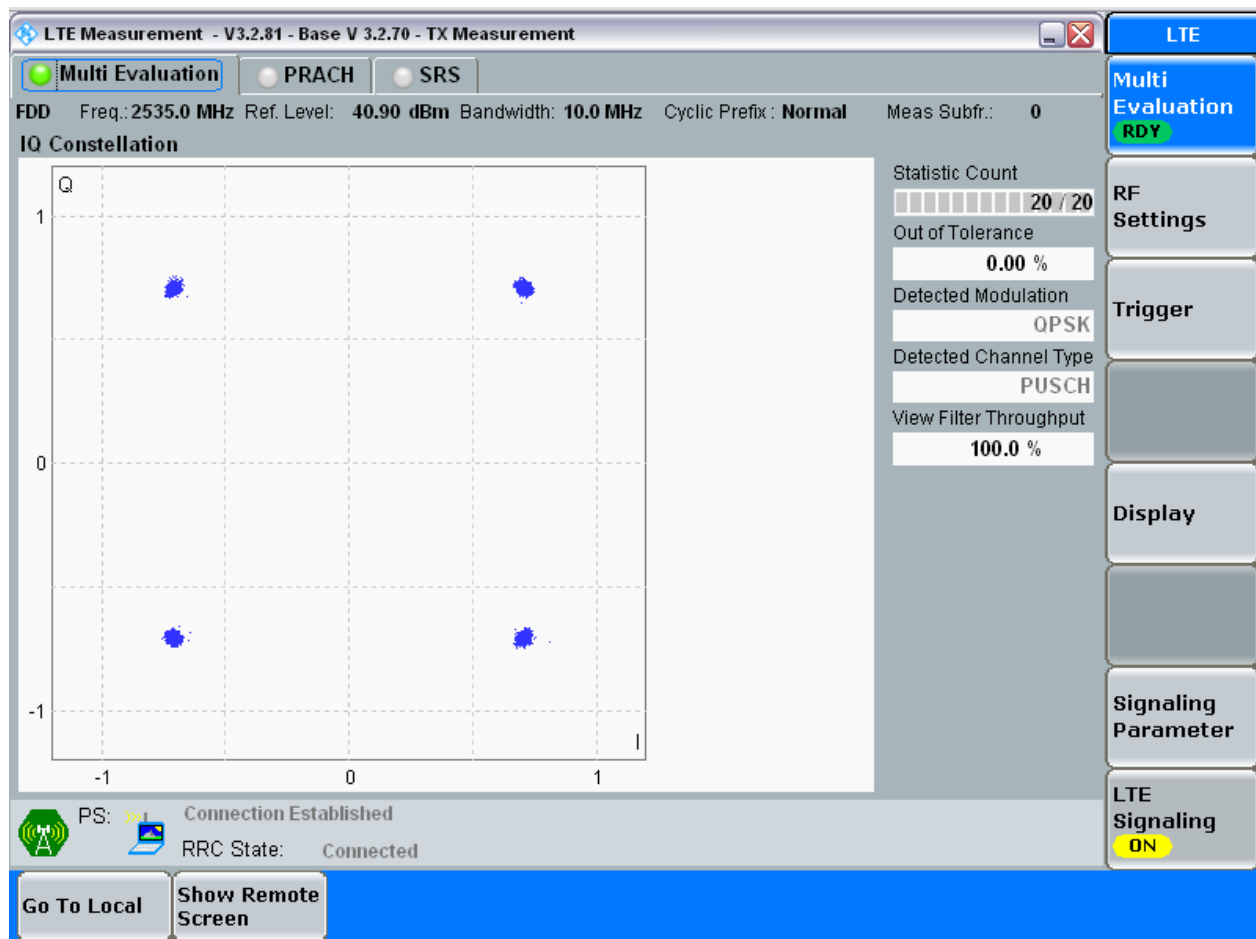
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

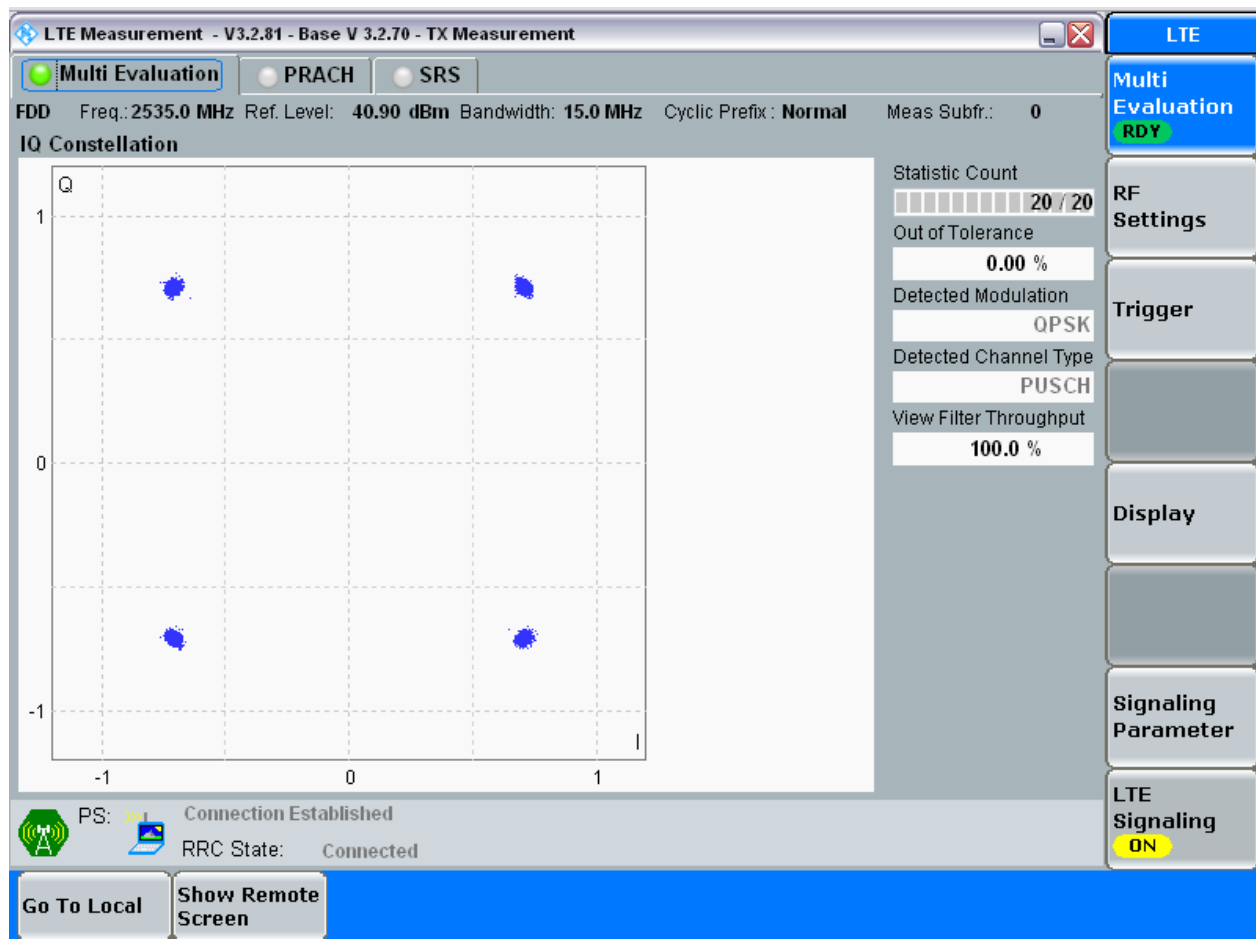
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

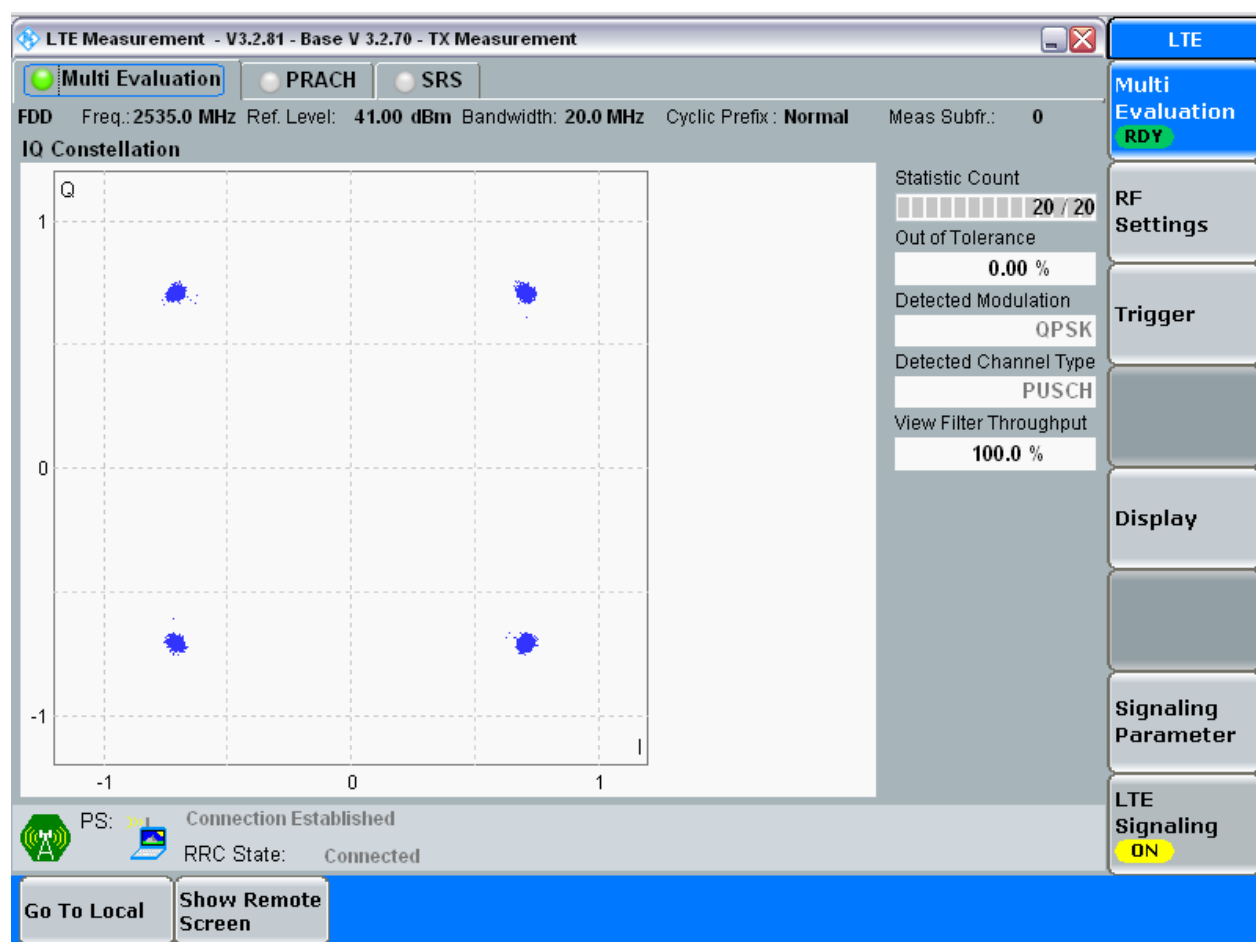
3.1.1.1.3.1.1 Test RB = RB75#0



3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0

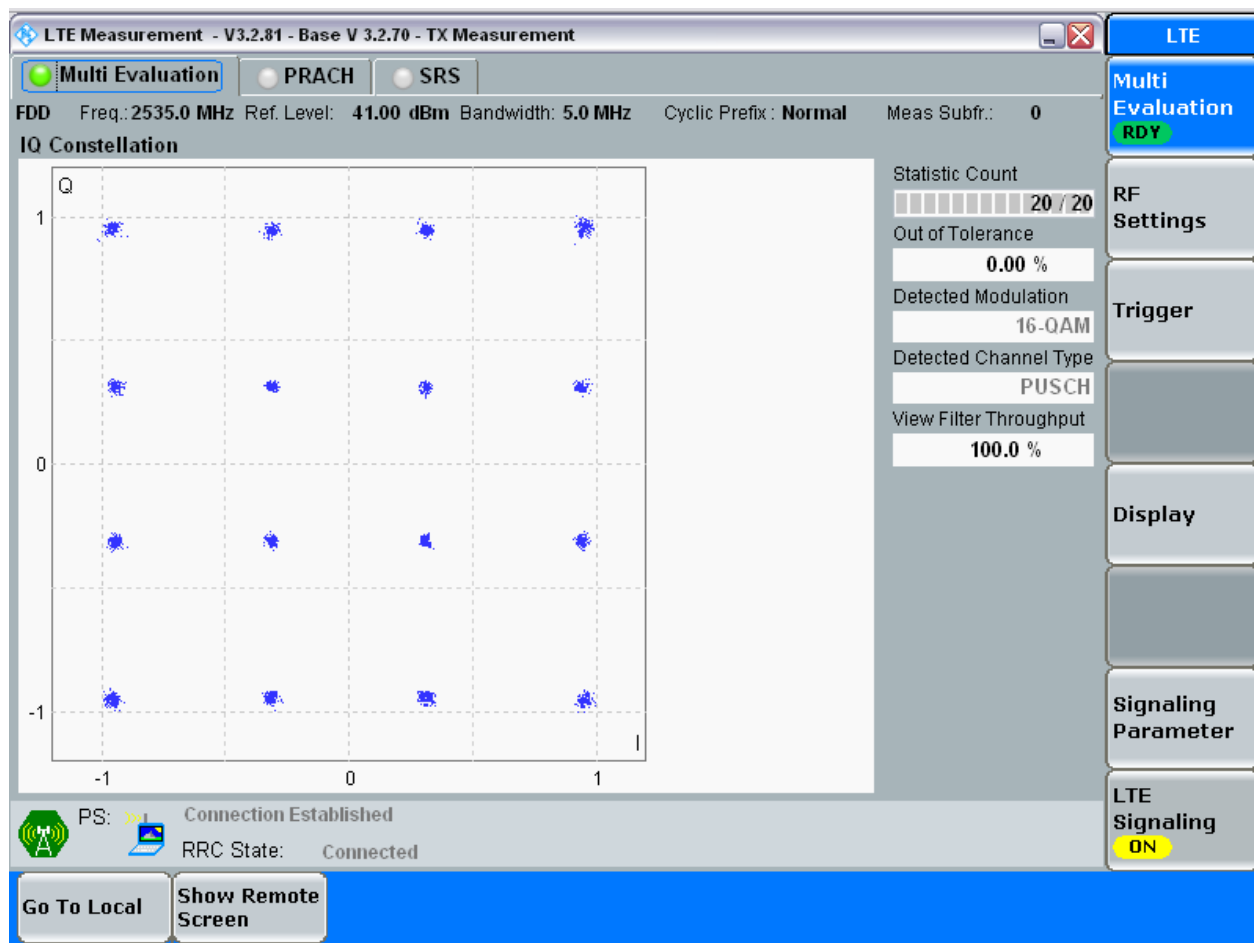


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

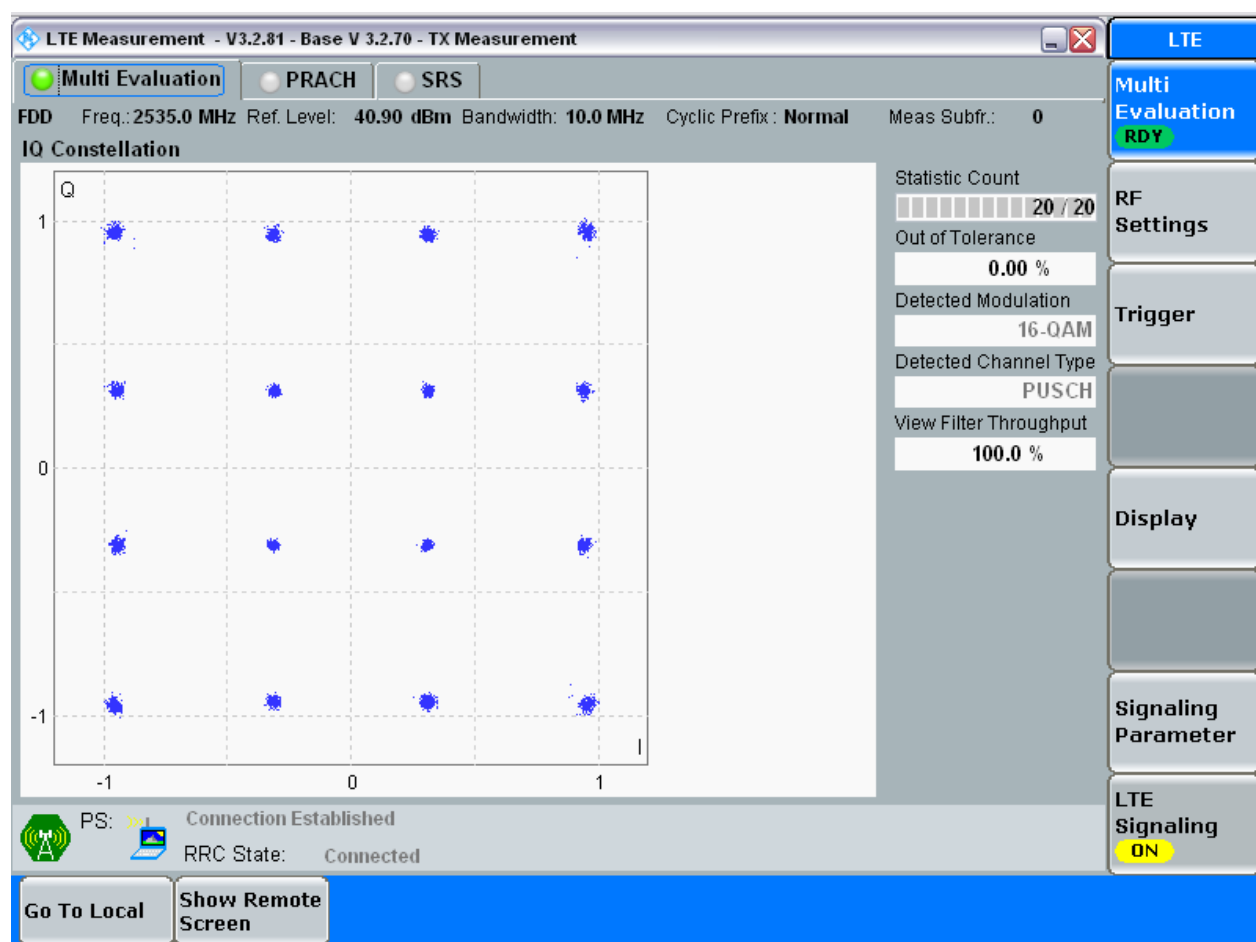
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

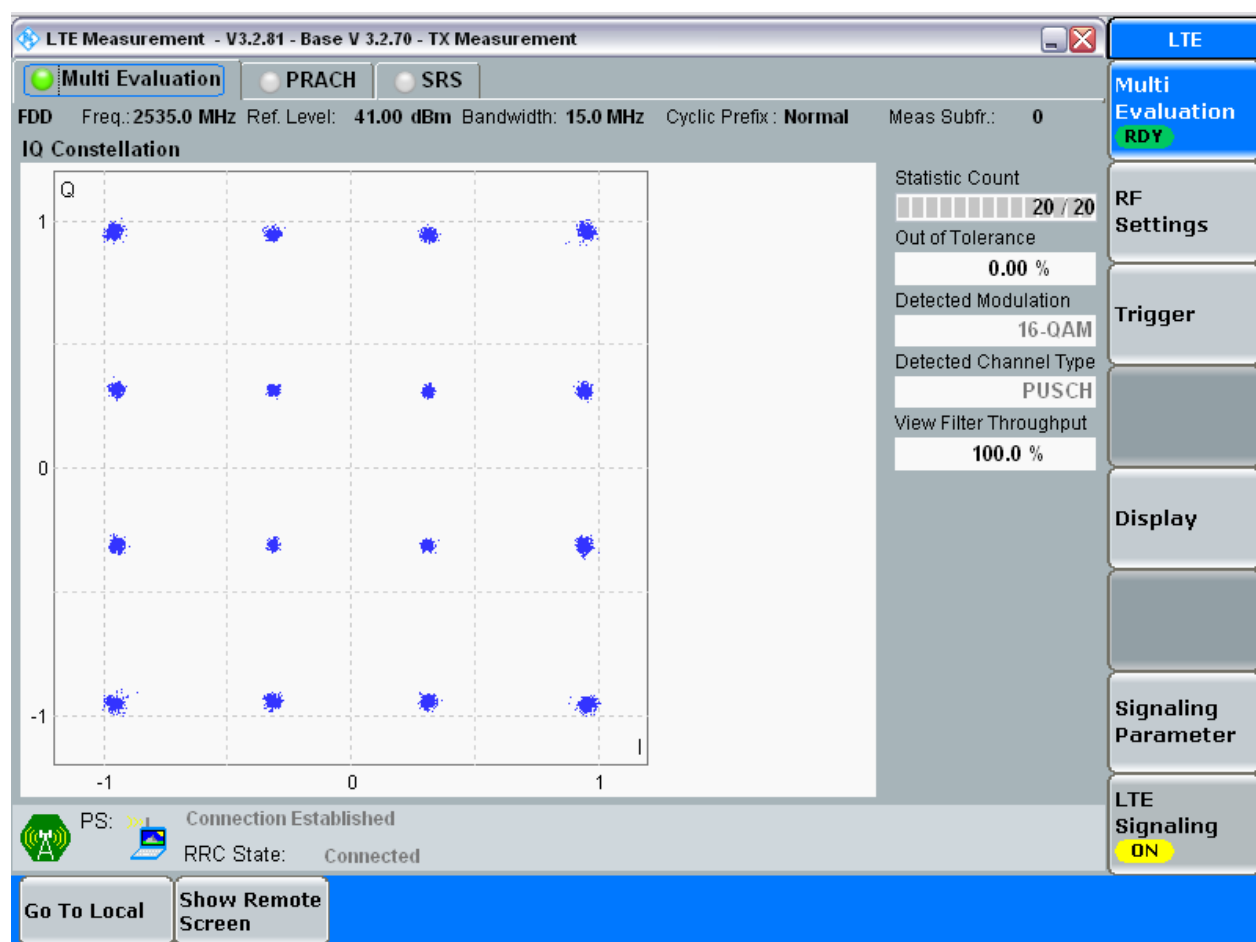
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

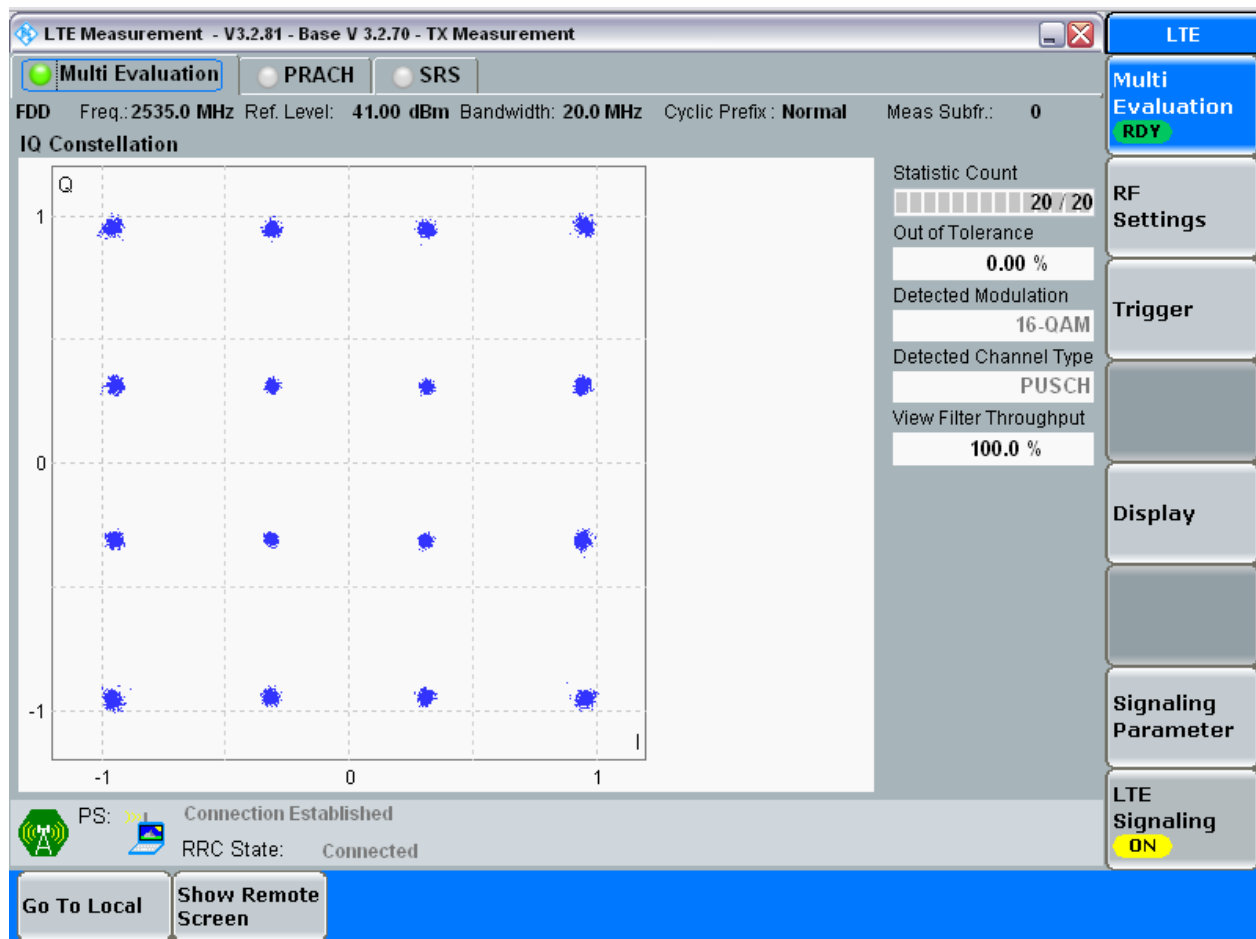
3.1.1.2.3.1.1 Test RB = RB75#0



3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB100#0



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.51	4.87	Pass
			HCH	RB25#0	4.51	4.87	Pass
		10	LCH	RB50#0	8.98	9.63	Pass
			MCH	RB50#0	8.99	9.62	Pass
			HCH	RB50#0	9.00	9.61	Pass
		15	LCH	RB75#0	13.46	14.35	Pass
			MCH	RB75#0	13.47	14.42	Pass
			HCH	RB75#0	13.49	14.36	Pass
		20	LCH	RB100#0	17.93	19.05	Pass
			MCH	RB100#0	17.96	19.05	Pass
			HCH	RB100#0	17.98	19.15	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.50	4.89	Pass
			HCH	RB25#0	4.50	4.89	Pass
		10	LCH	RB50#0	8.98	9.64	Pass
			MCH	RB50#0	8.99	9.60	Pass
			HCH	RB50#0	8.99	9.59	Pass
		15	LCH	RB75#0	13.46	14.35	Pass
			MCH	RB75#0	13.47	14.36	Pass
			HCH	RB75#0	13.50	14.44	Pass
		20	LCH	RB100#0	17.93	19.08	Pass
			MCH	RB100#0	17.95	19.09	Pass
			HCH	RB100#0	17.98	19.10	Pass



Part II - Test Plots

4.1 For LTE

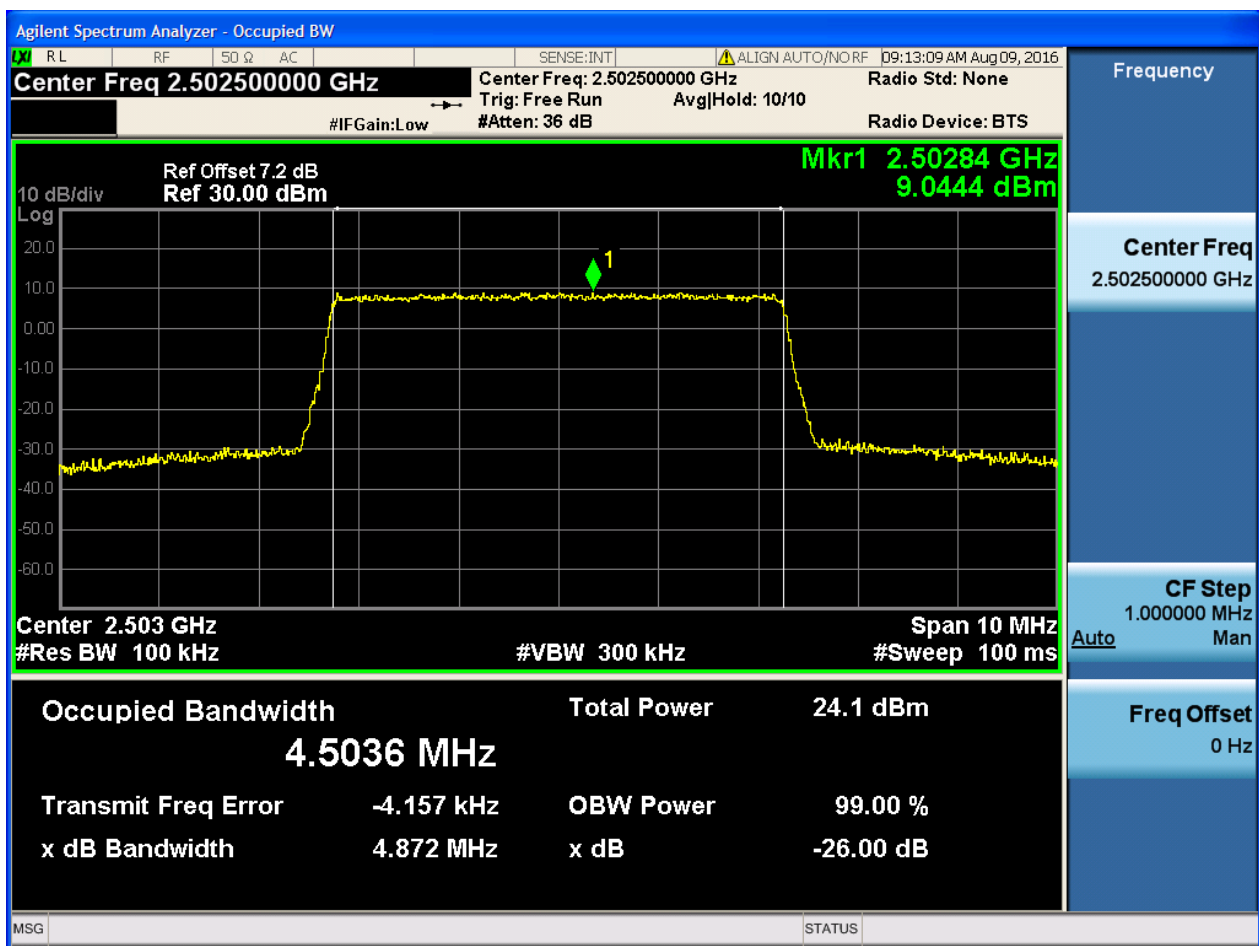
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

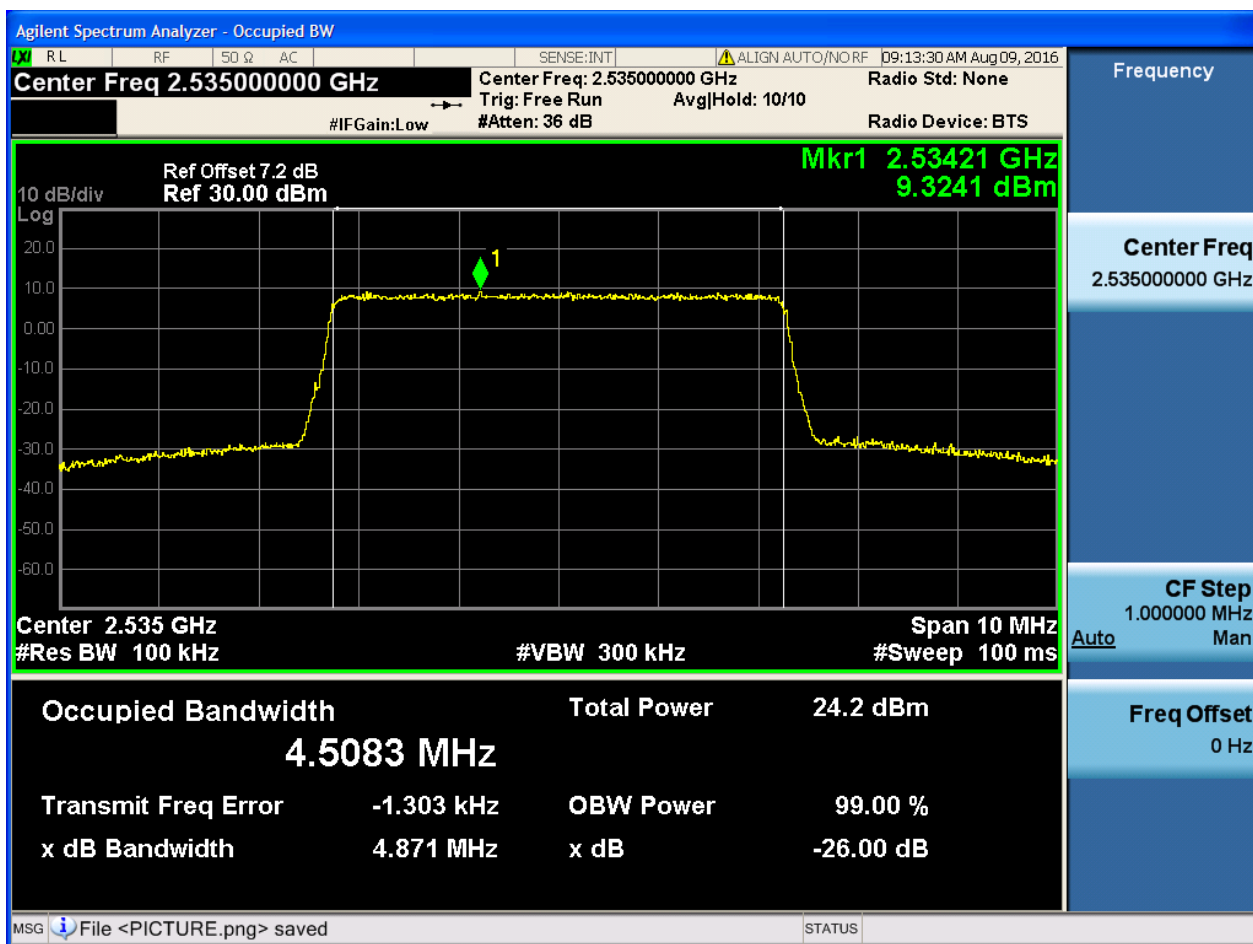
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

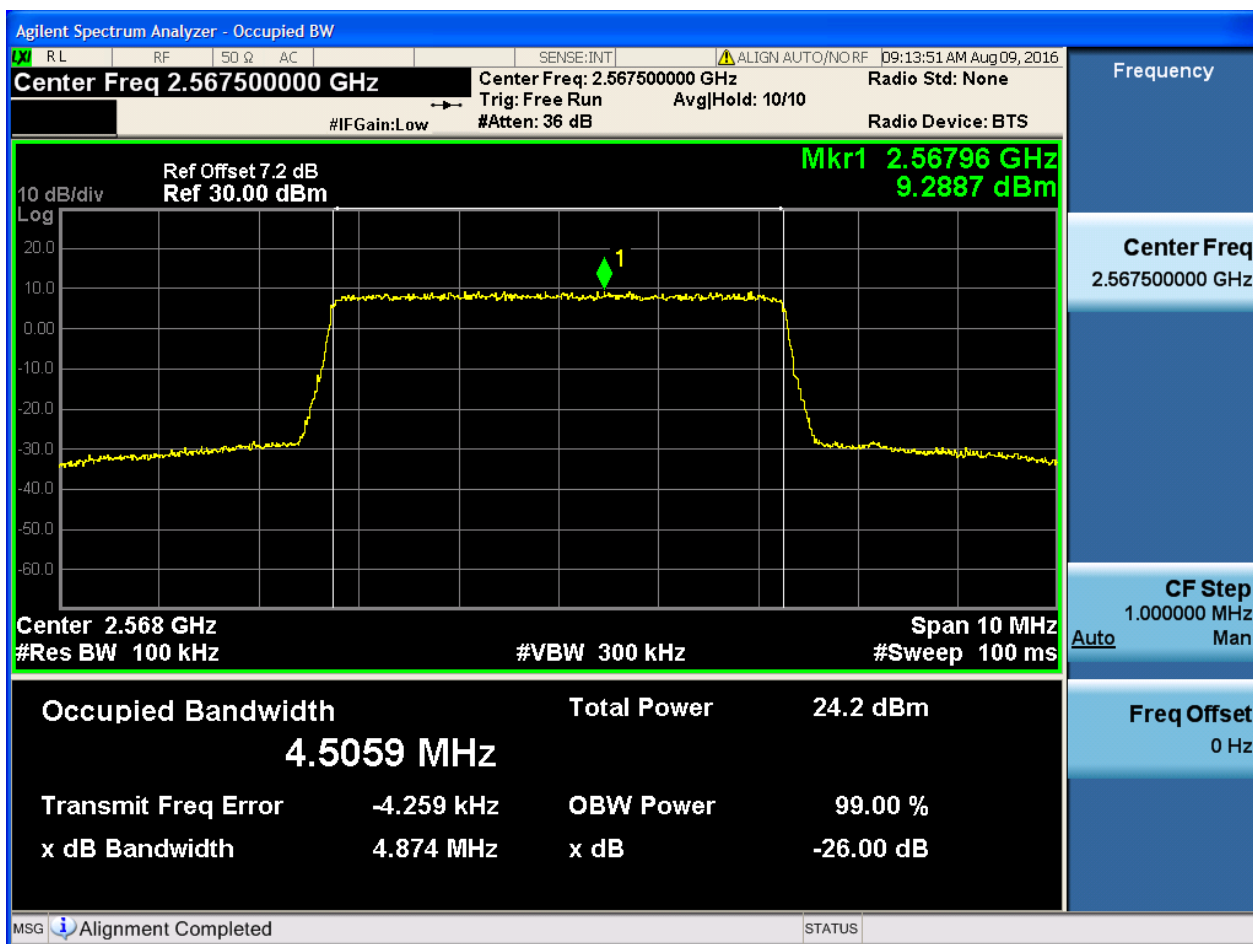
4.1.1.1.1.2.1 Test RB = RB25#0





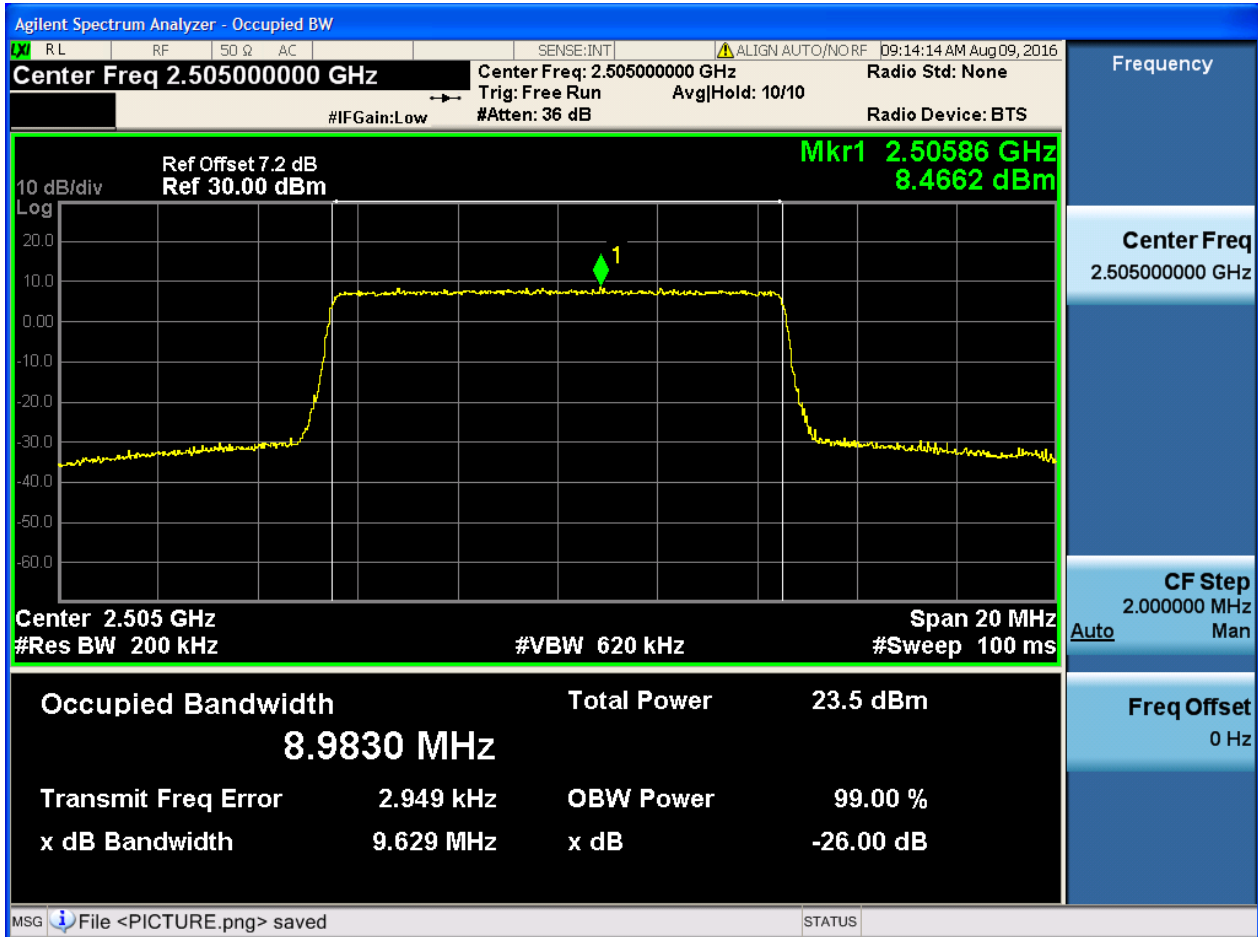
4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0





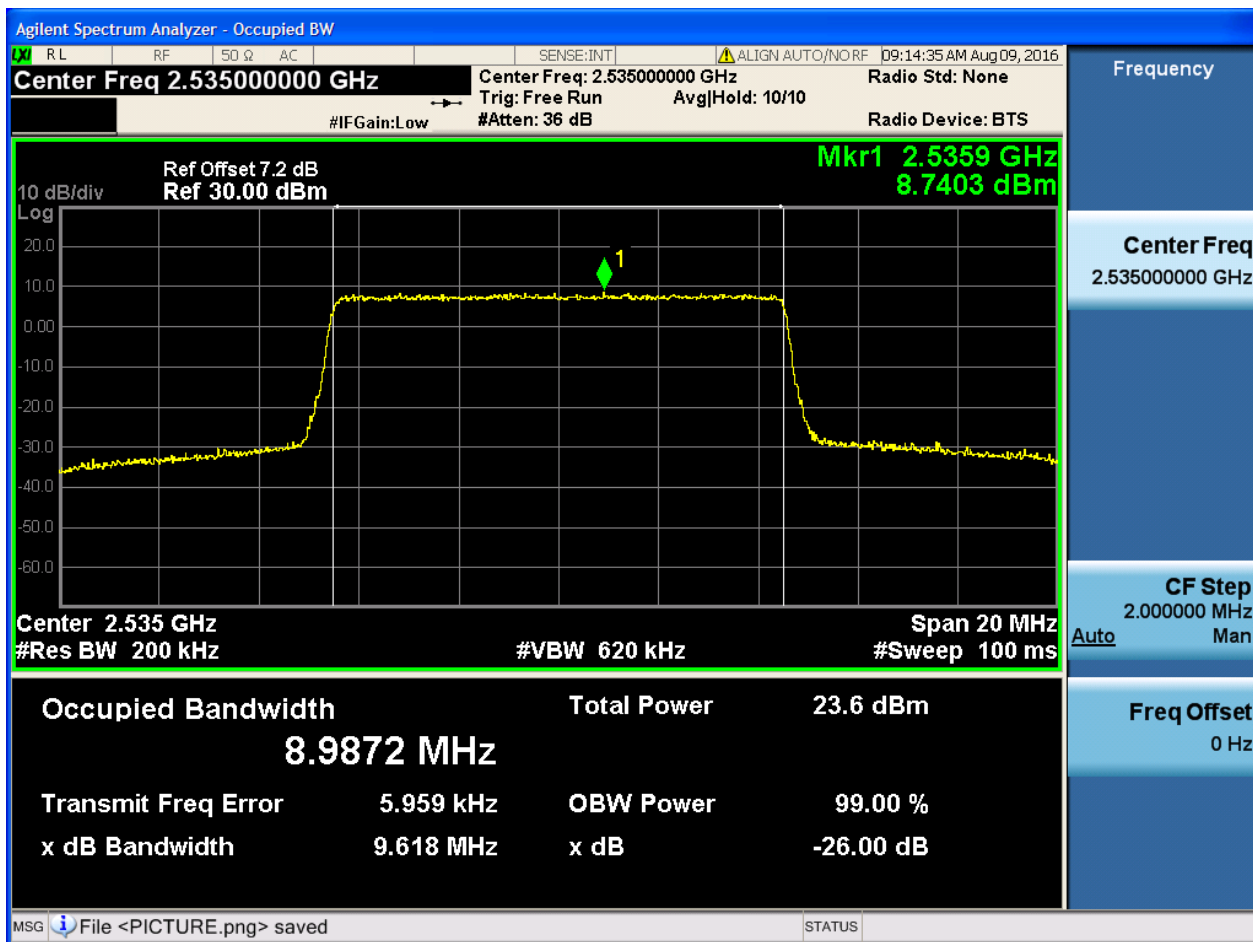
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

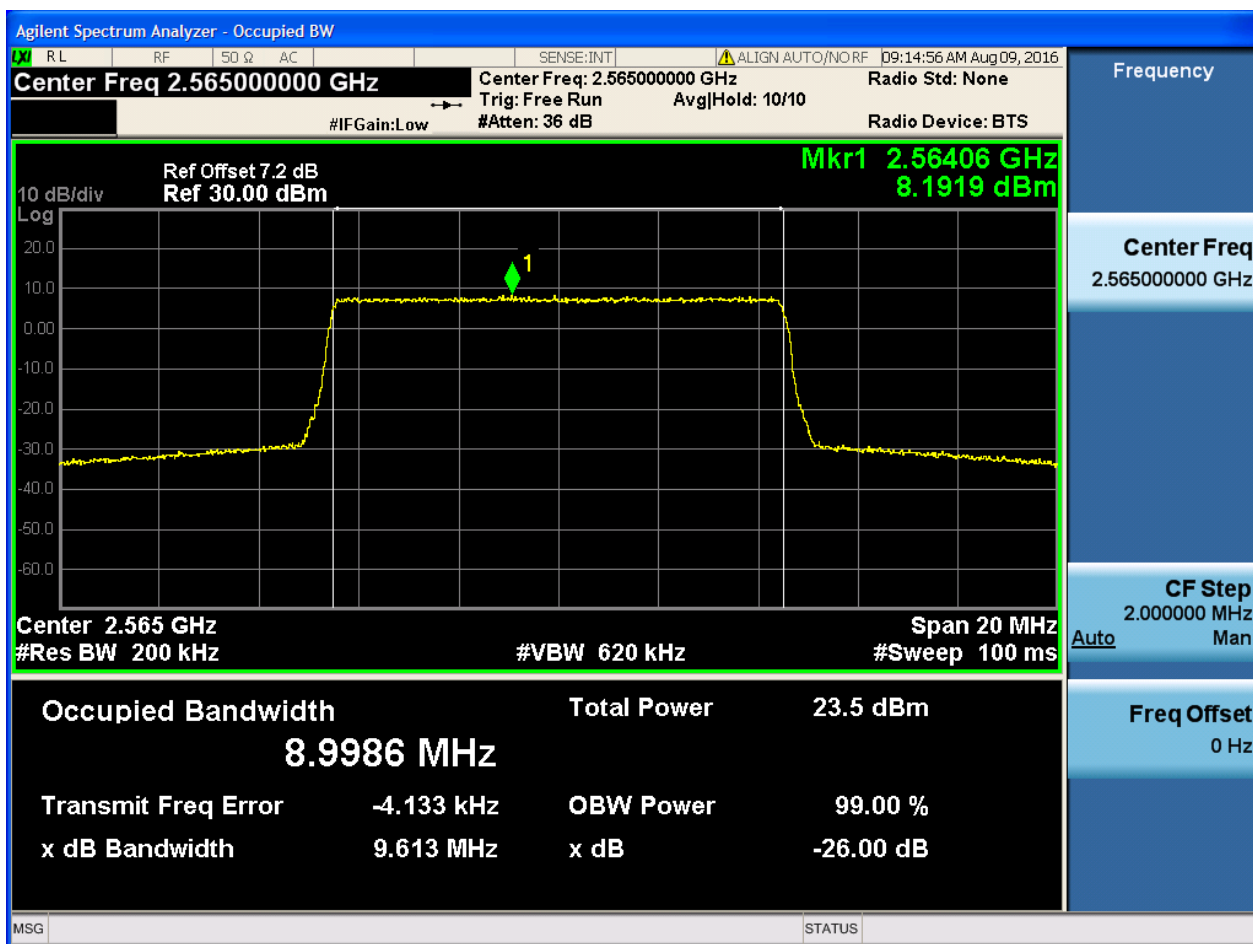
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

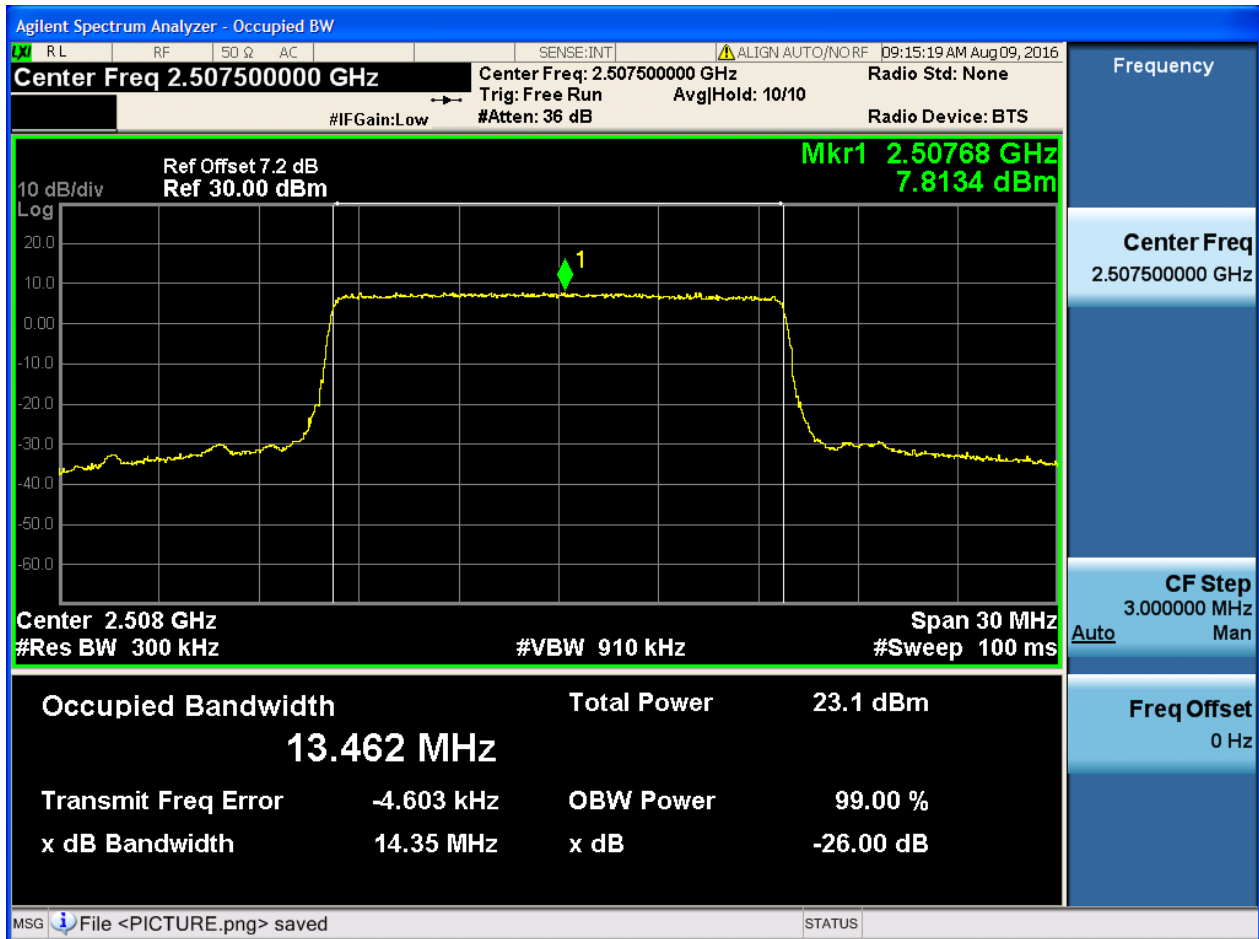




4.1.1.1.3 Test Bandwidth = 15

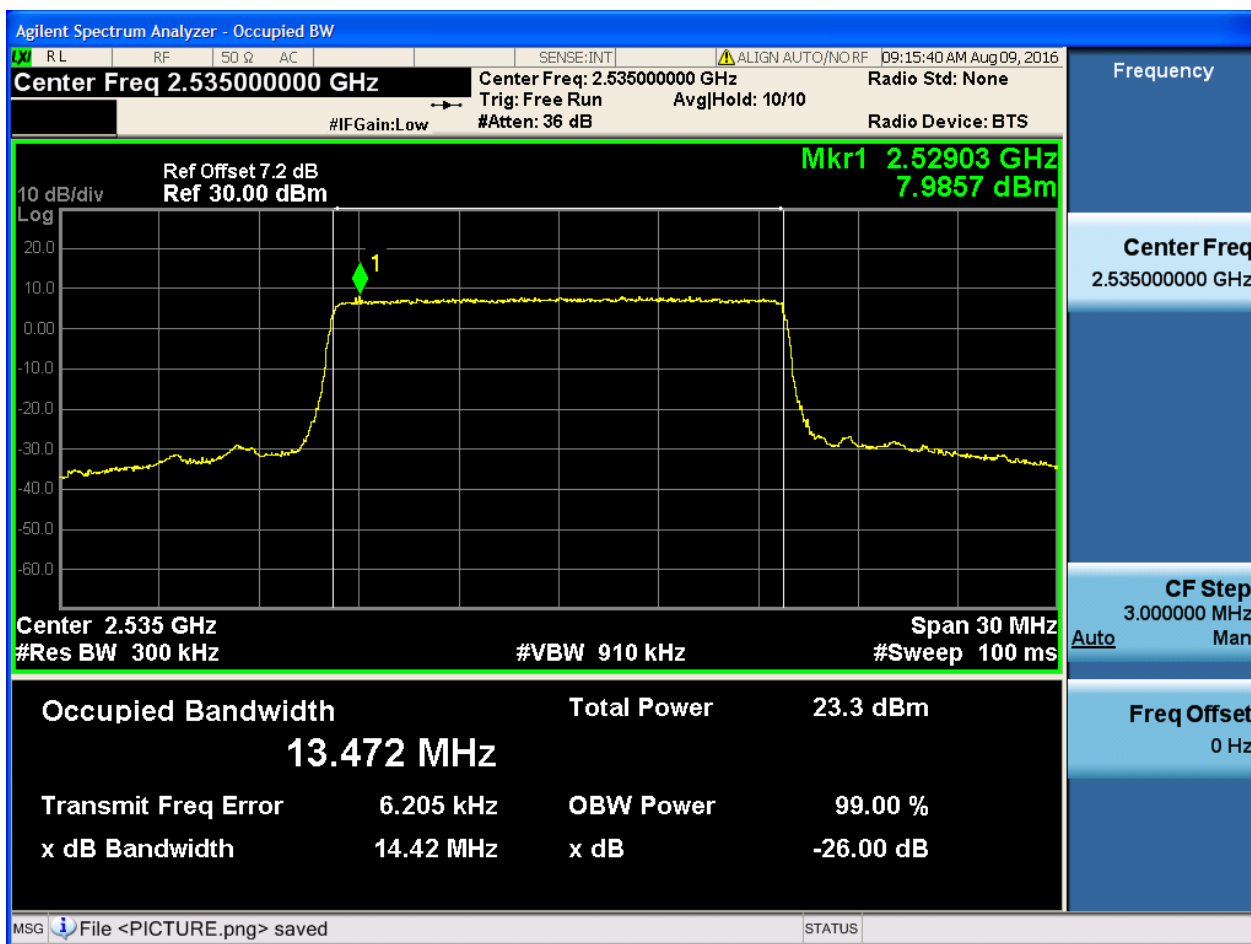
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1.3.2 Test Channel = MCH

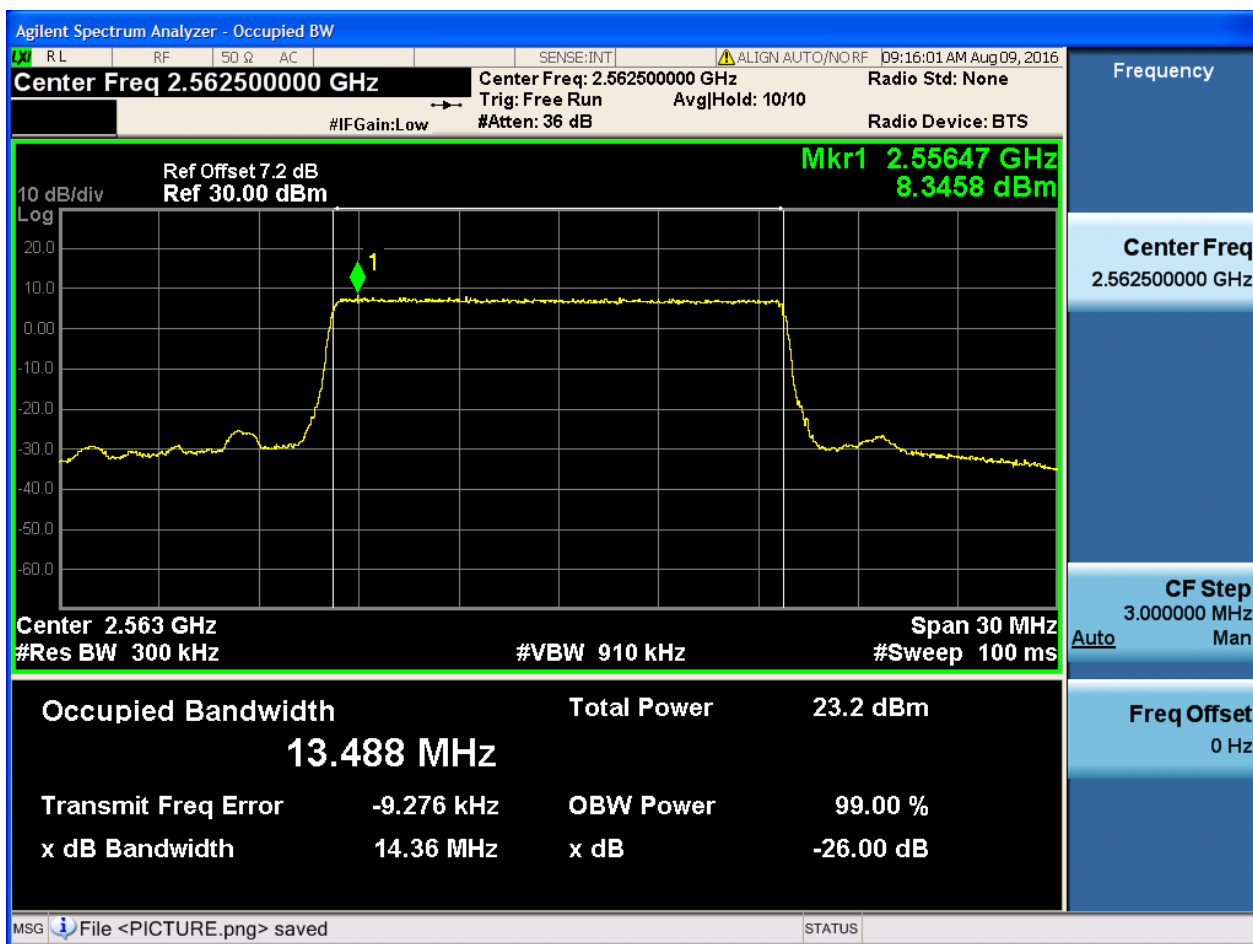
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

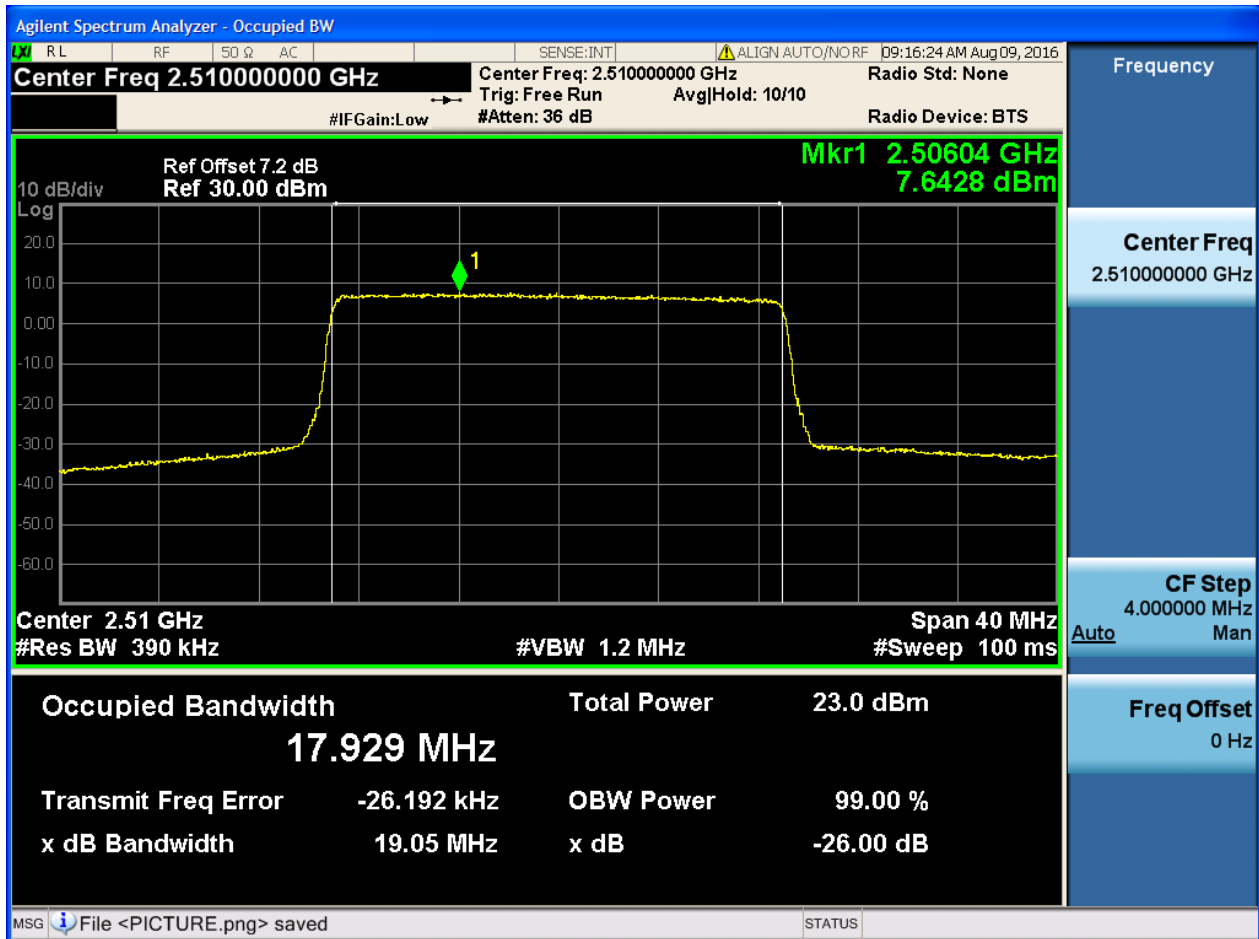




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

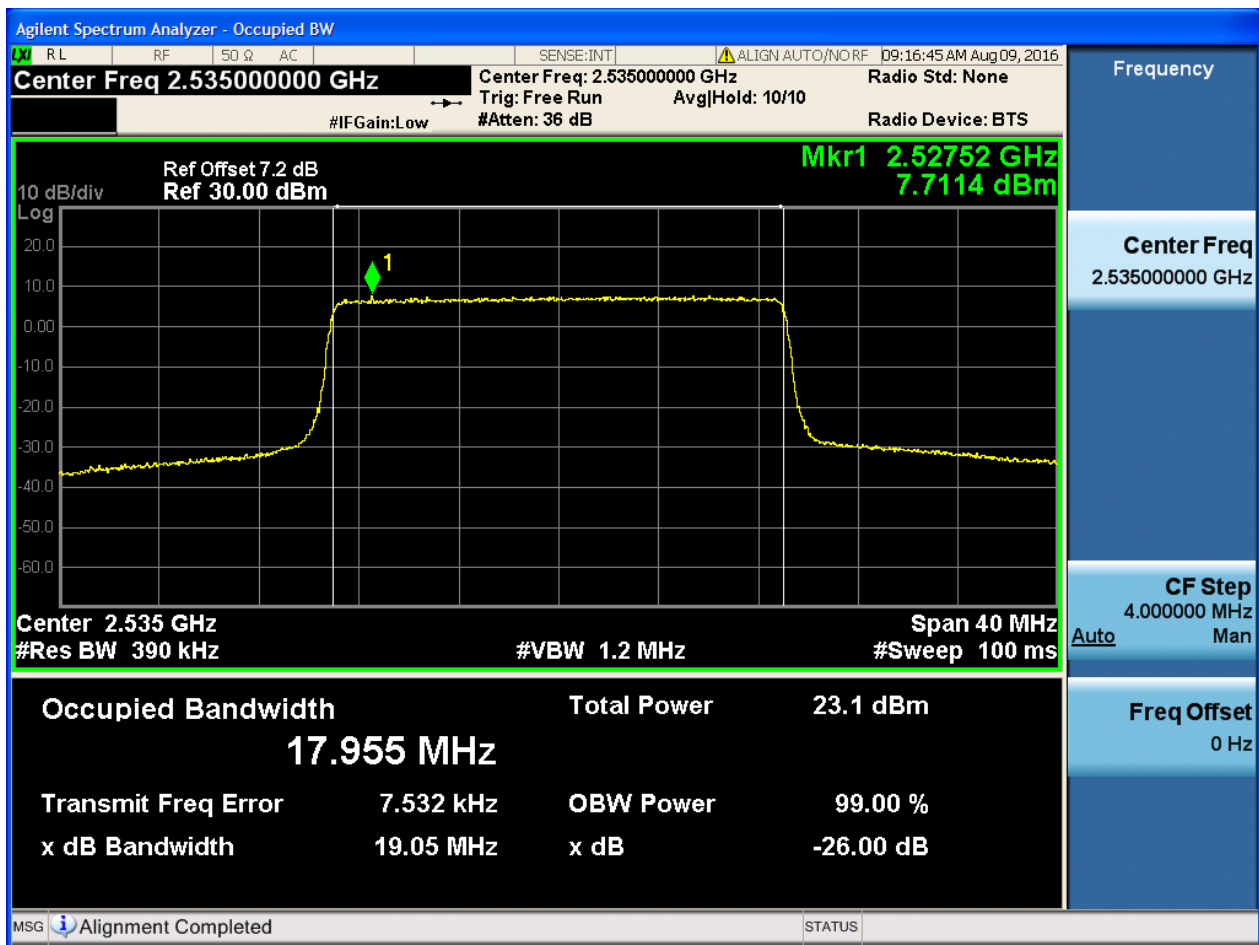
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

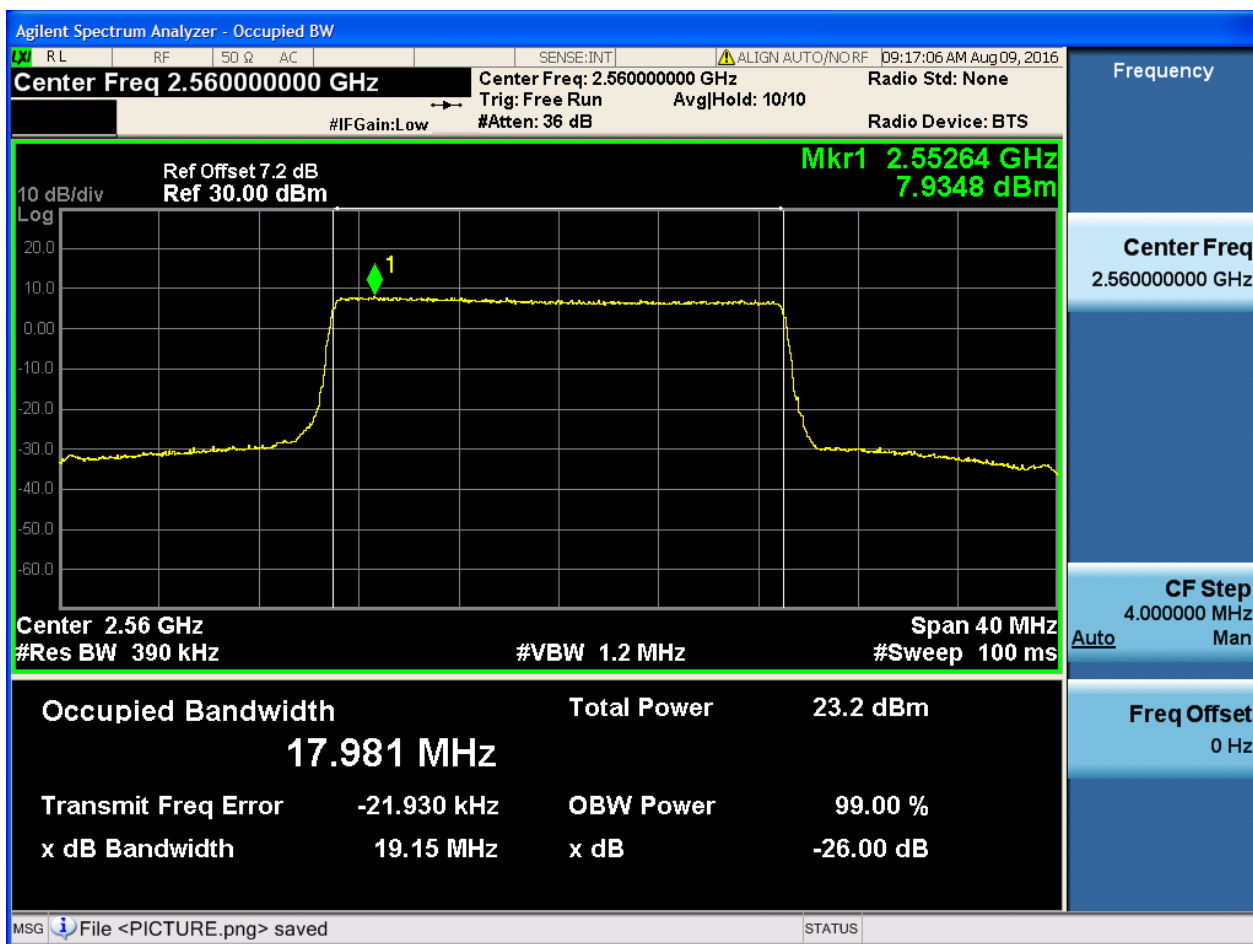
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



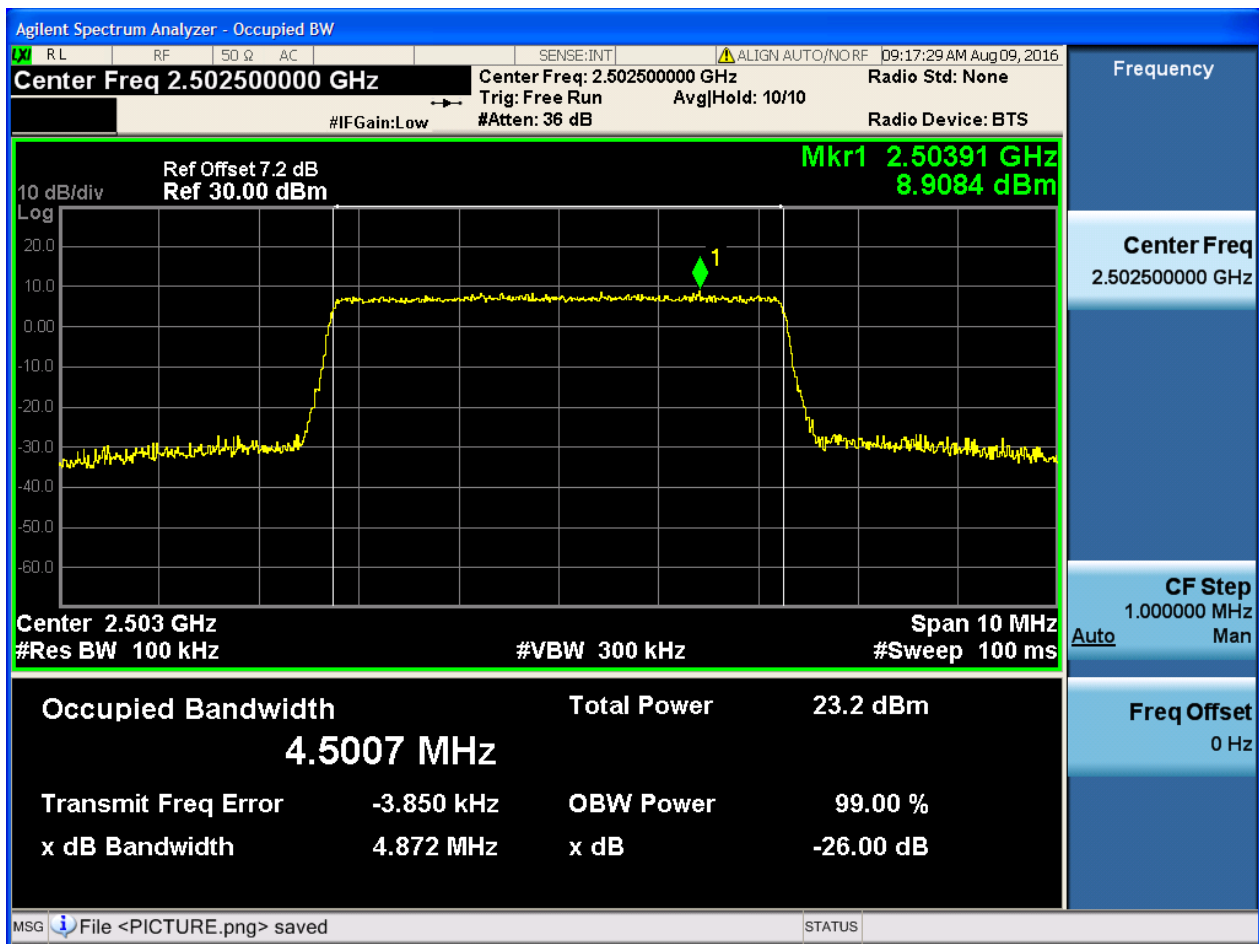


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

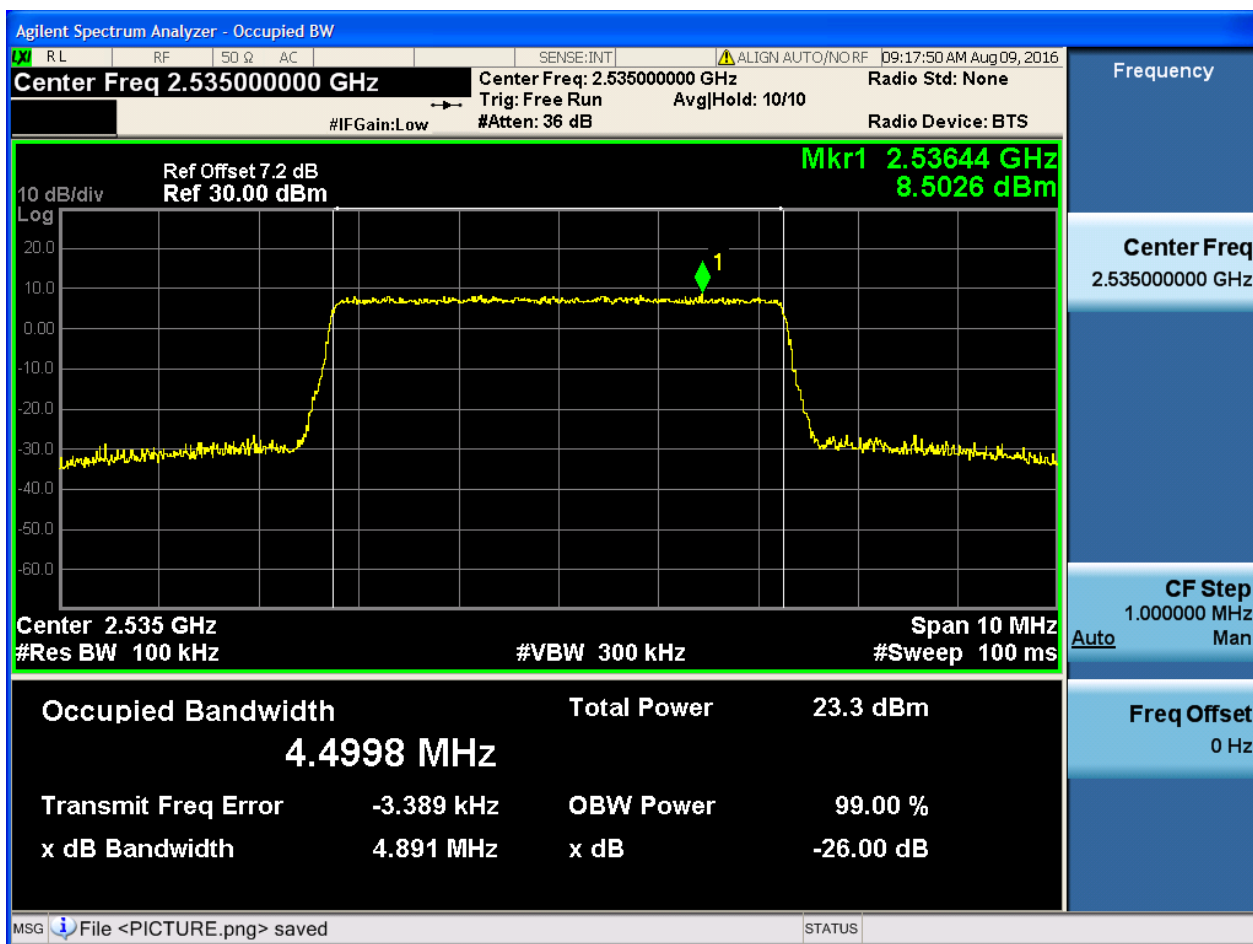
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

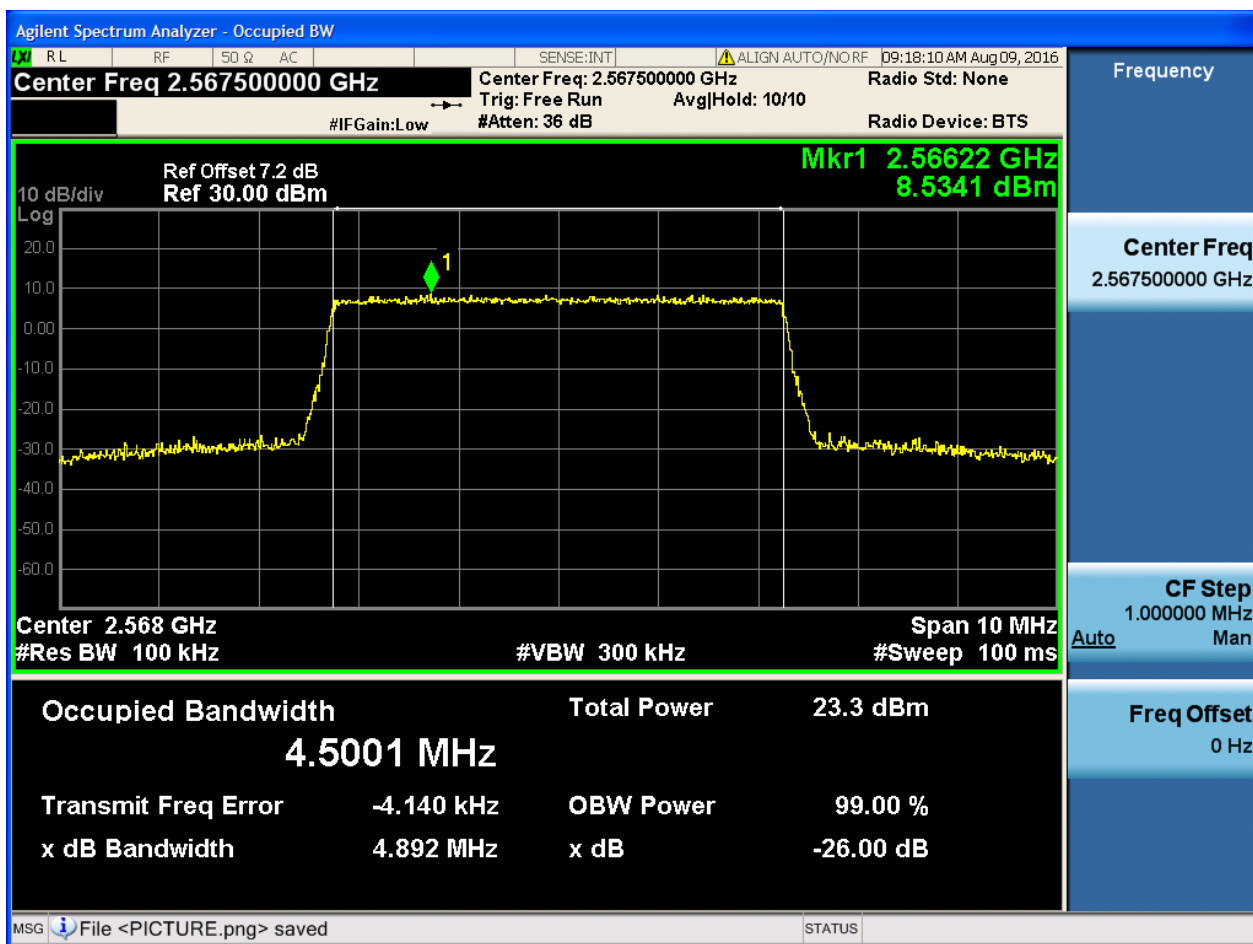
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

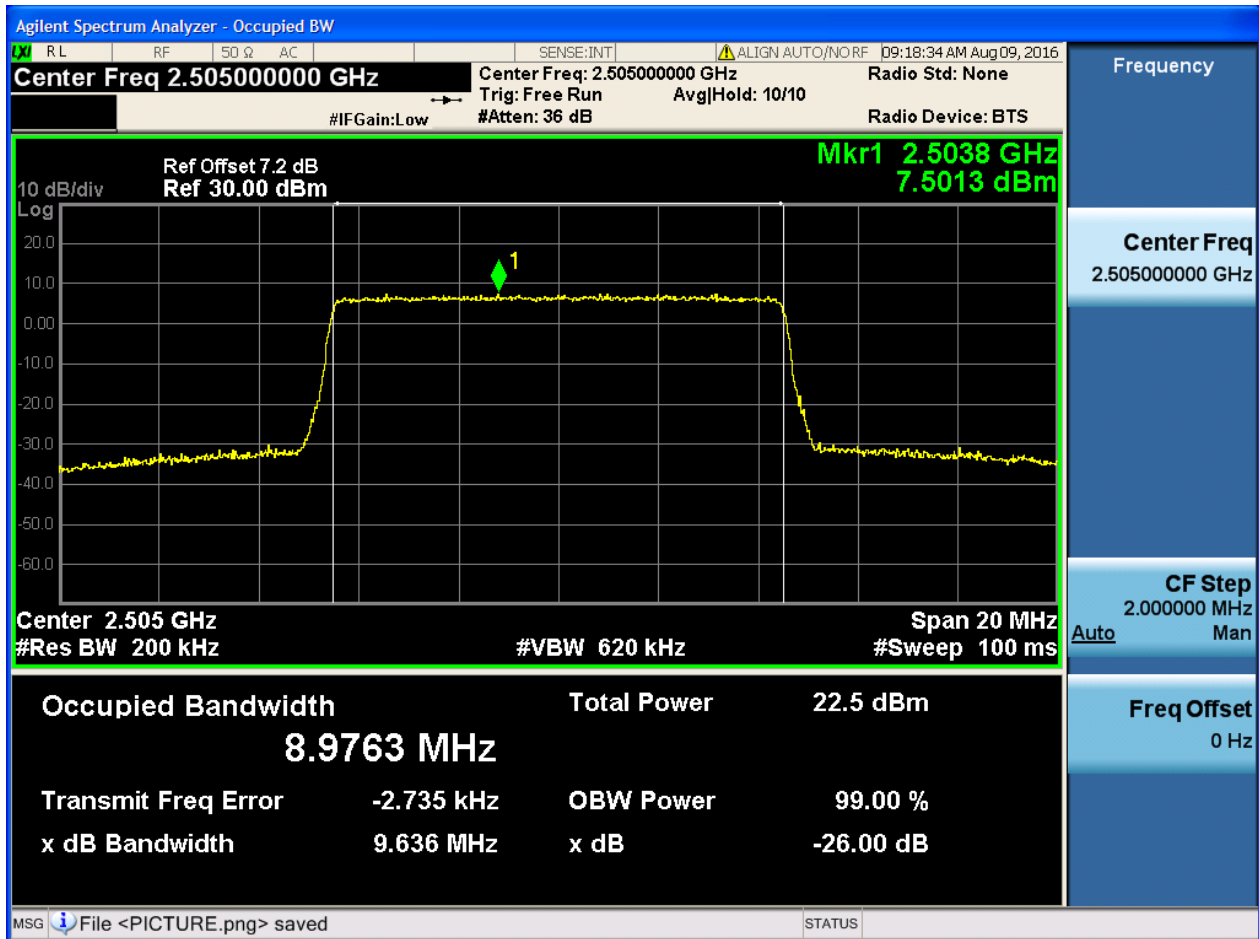




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

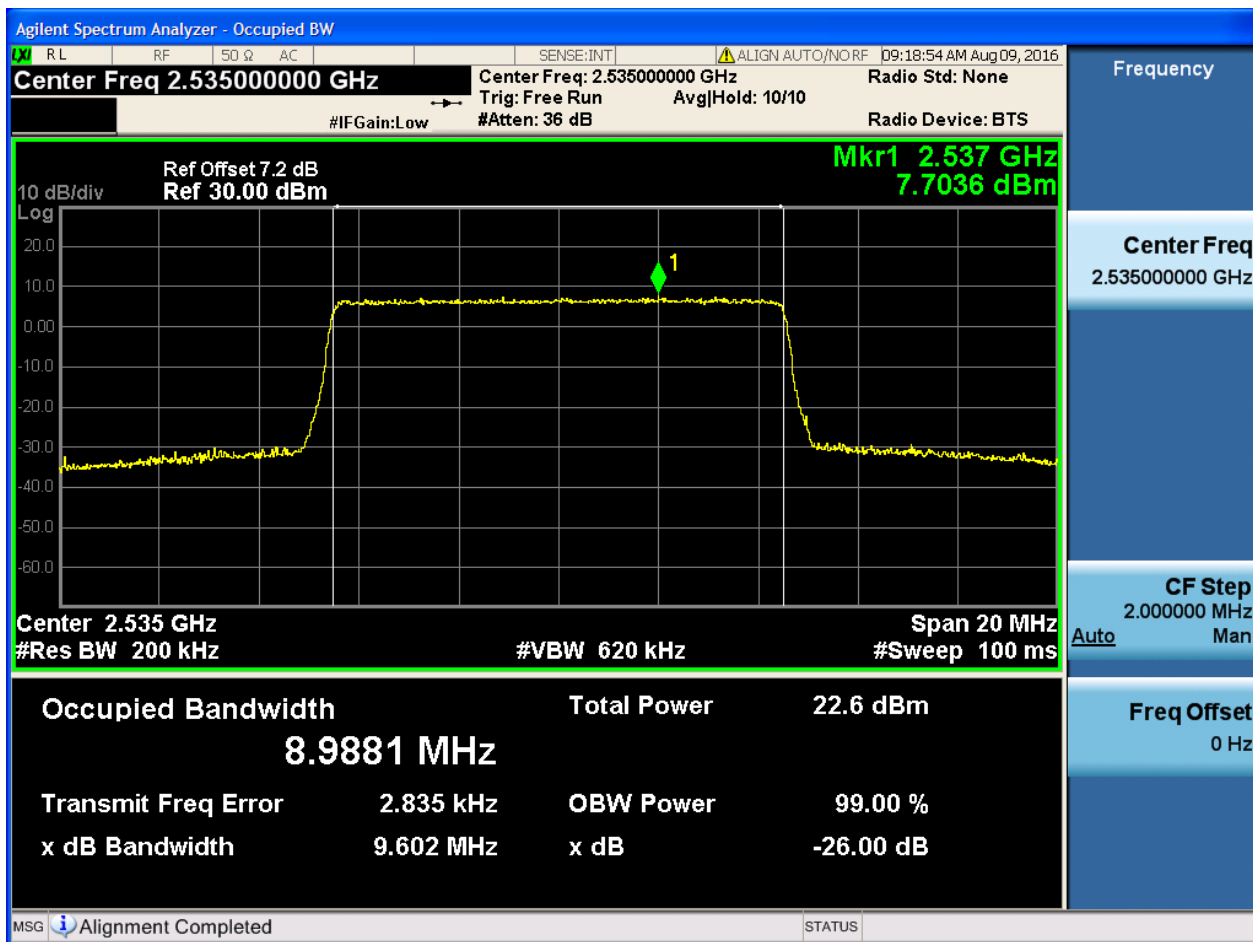
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

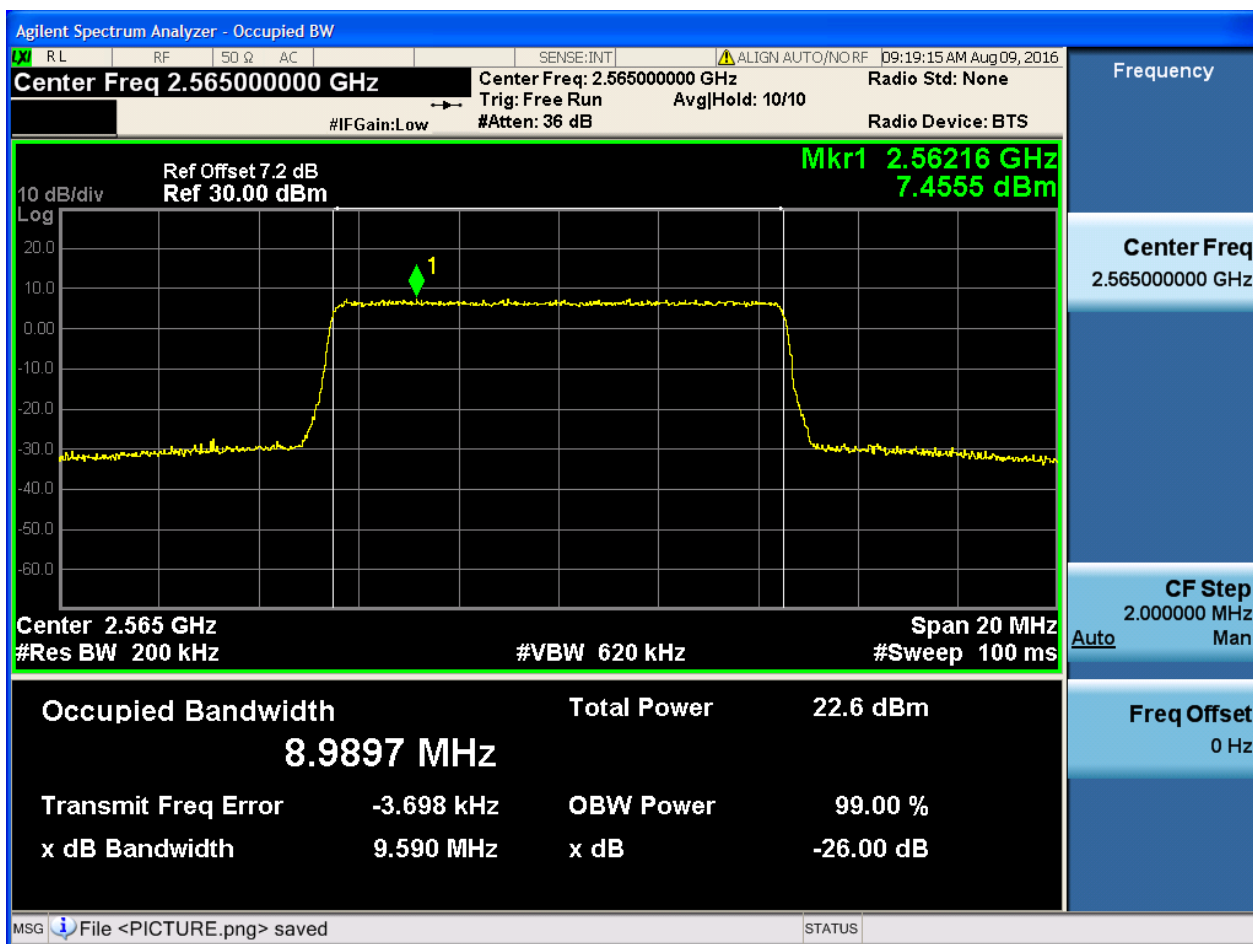
4.1.1.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

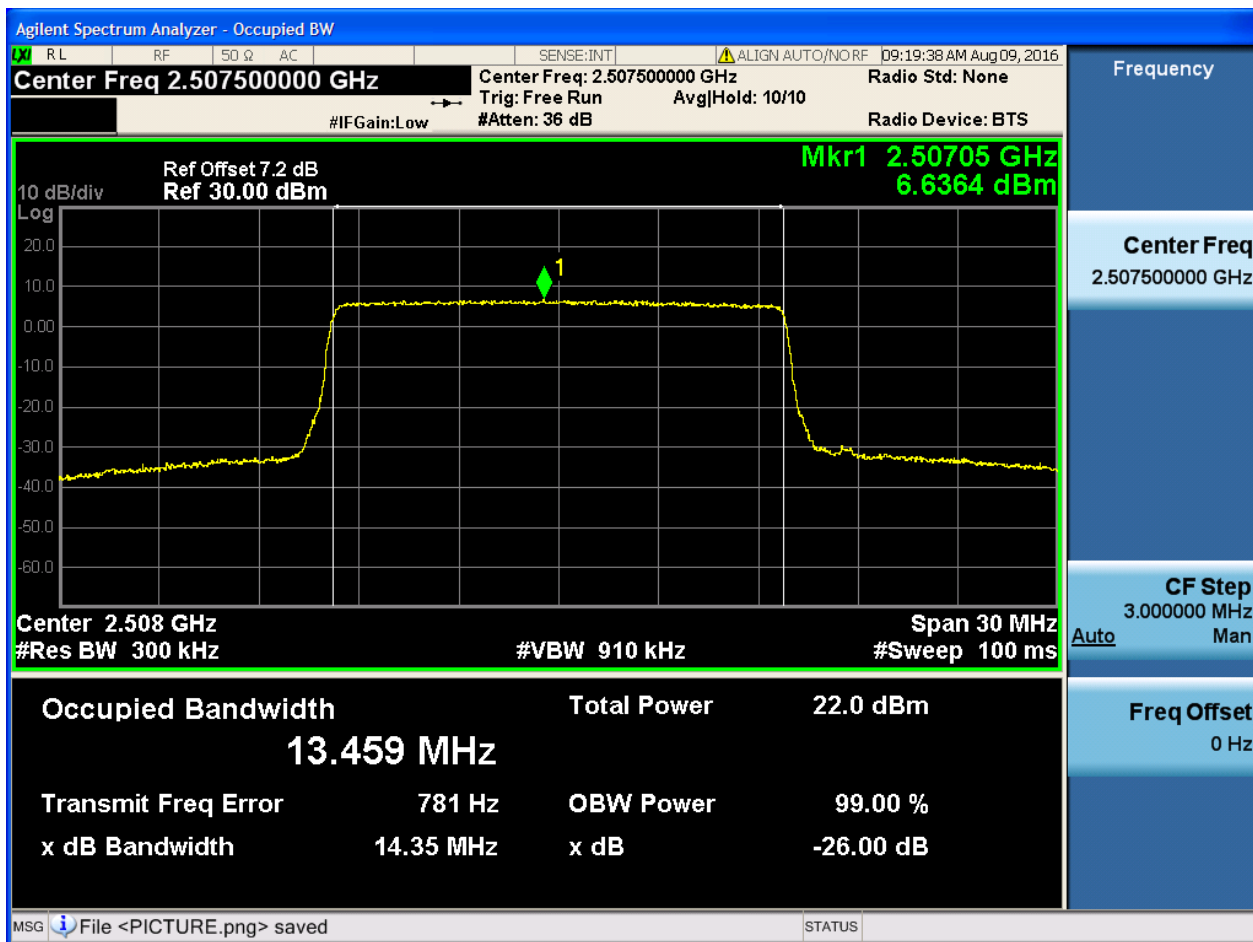




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

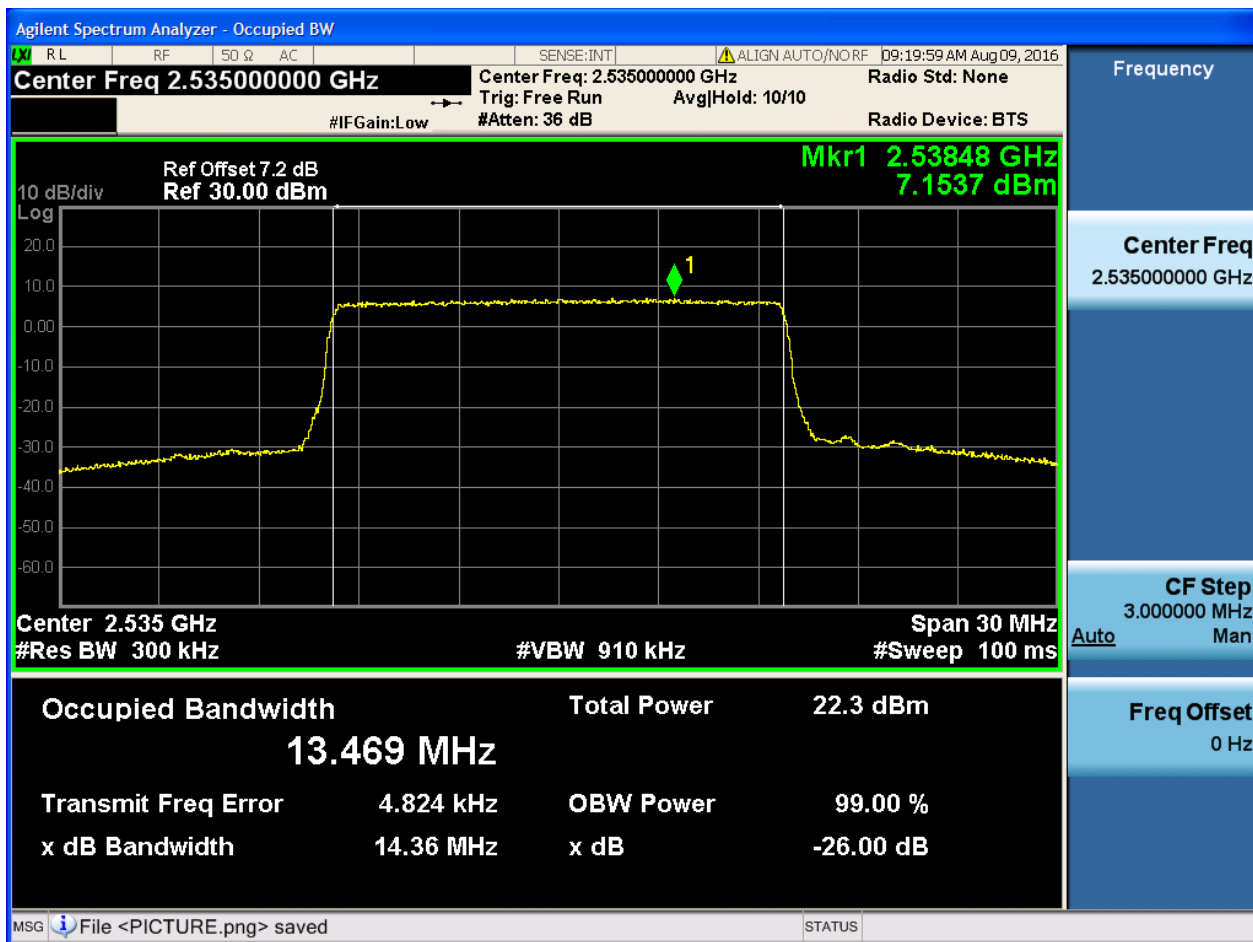
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

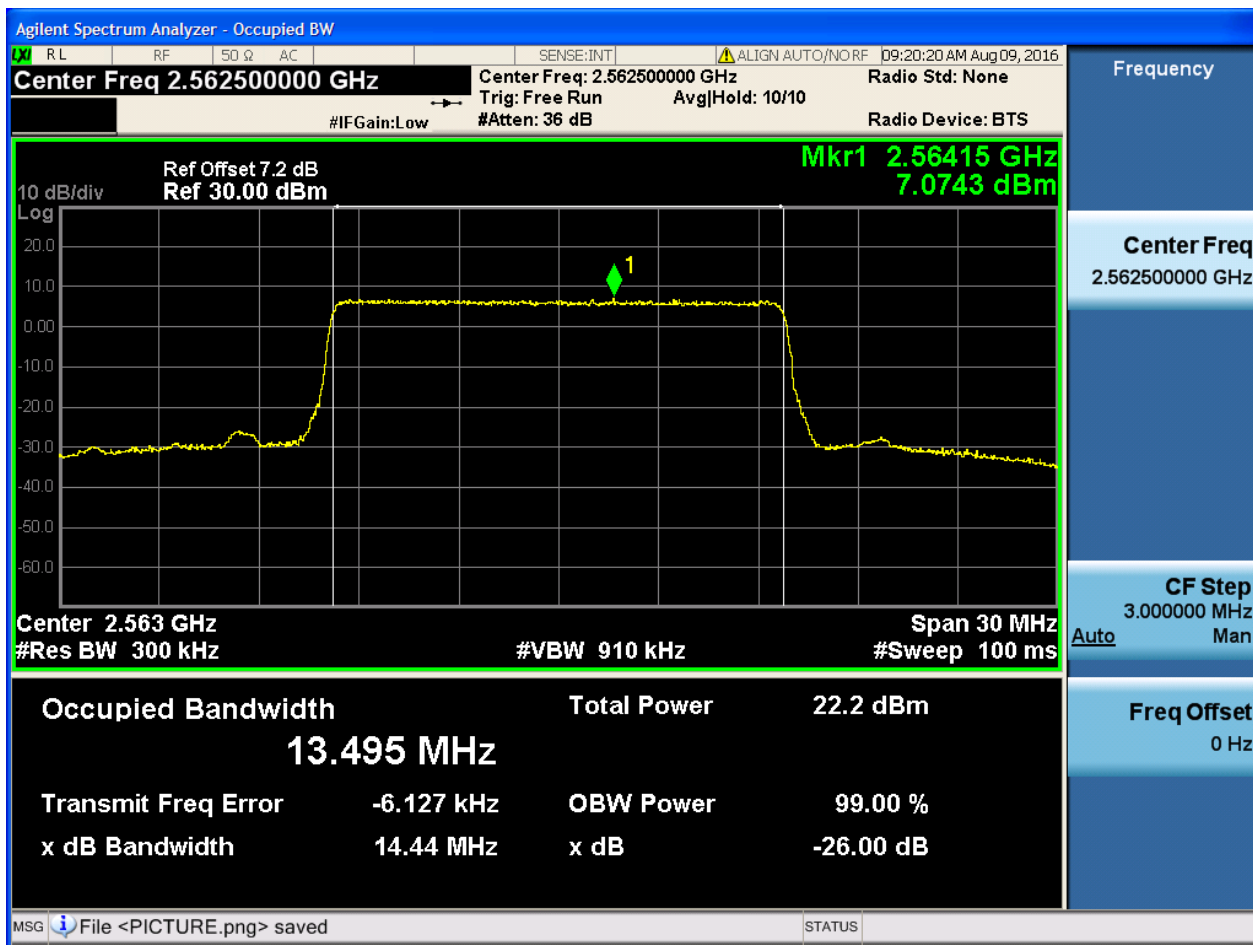
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

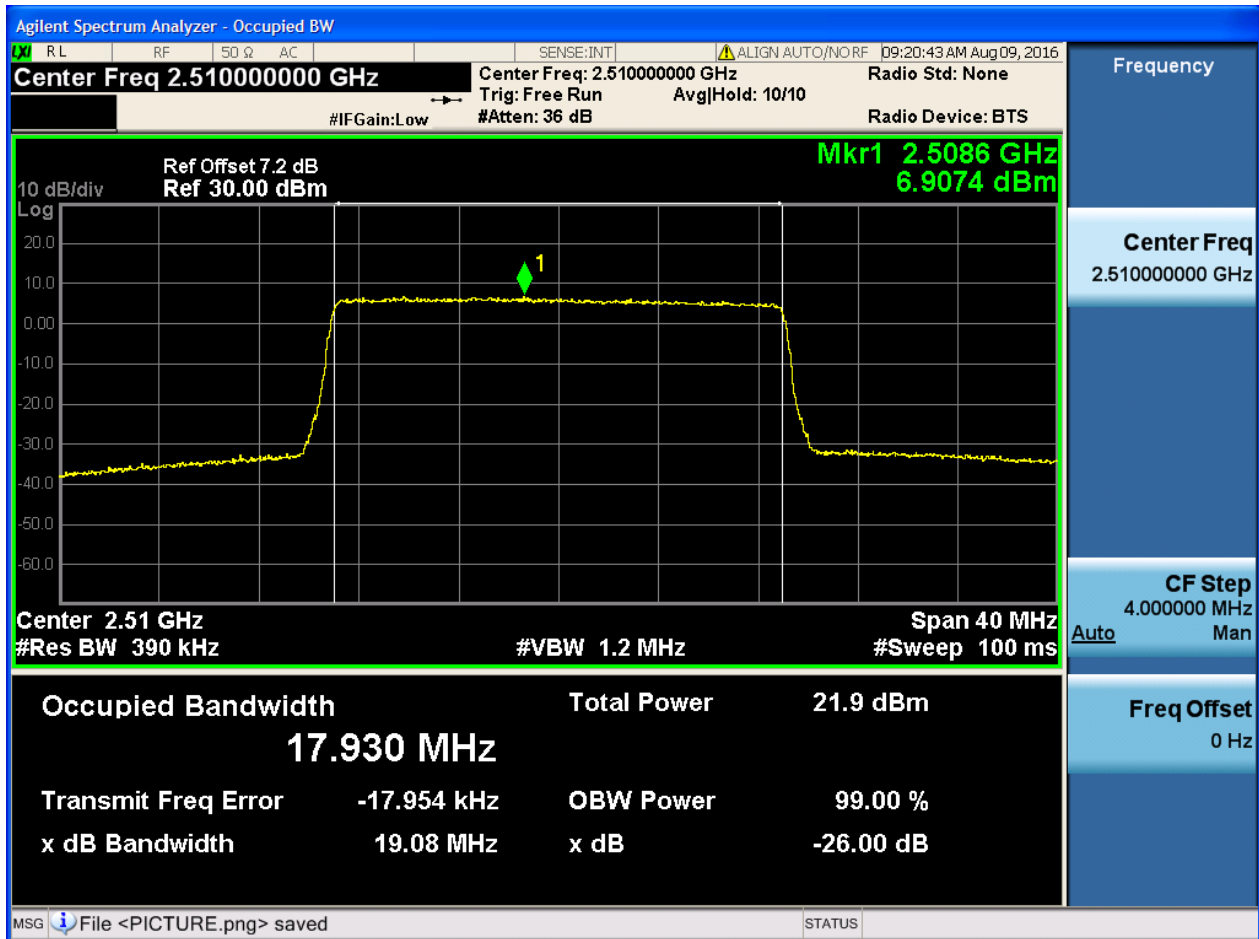




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

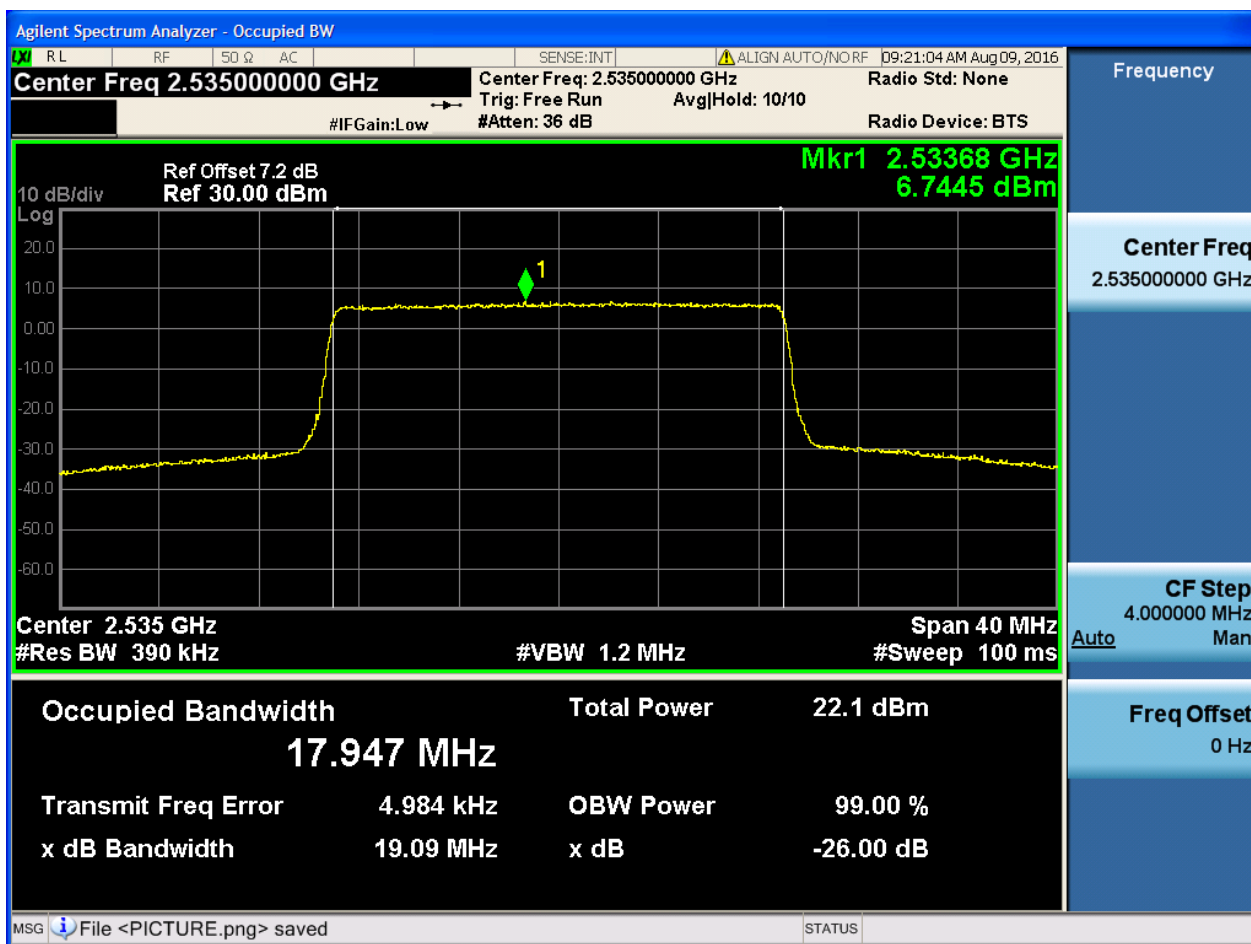
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

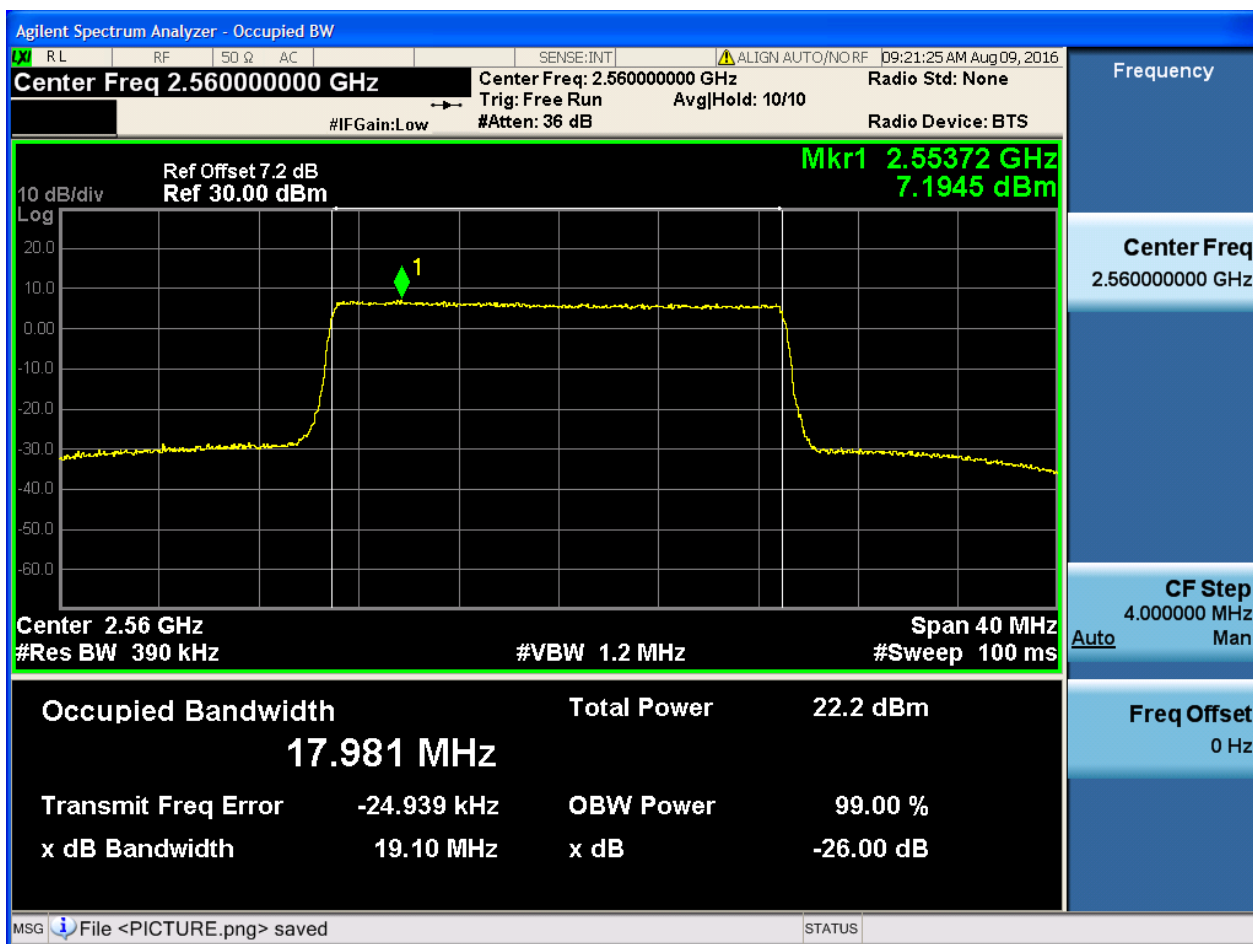
4.1.1.2.4.2.1 Test RB = RB100#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

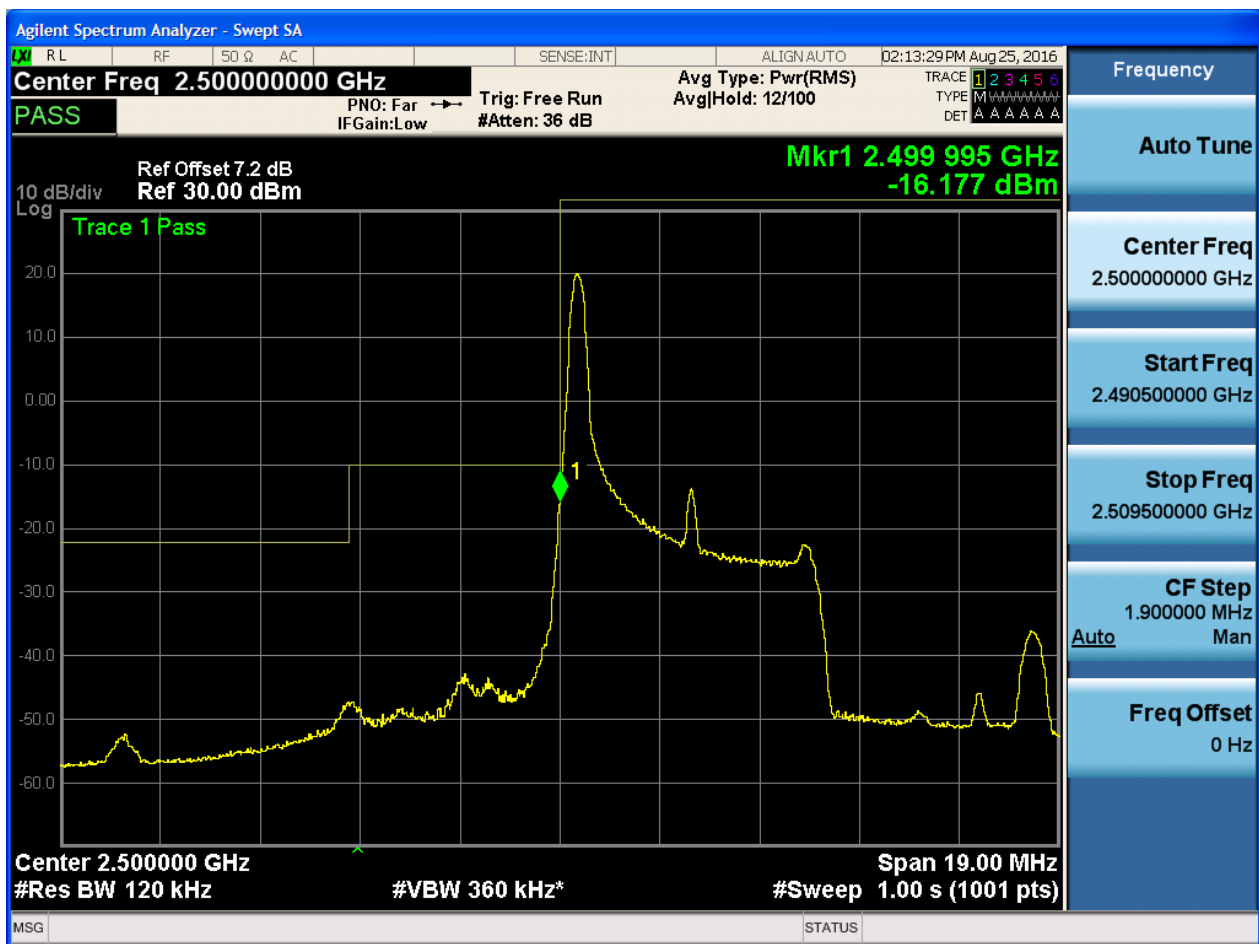
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



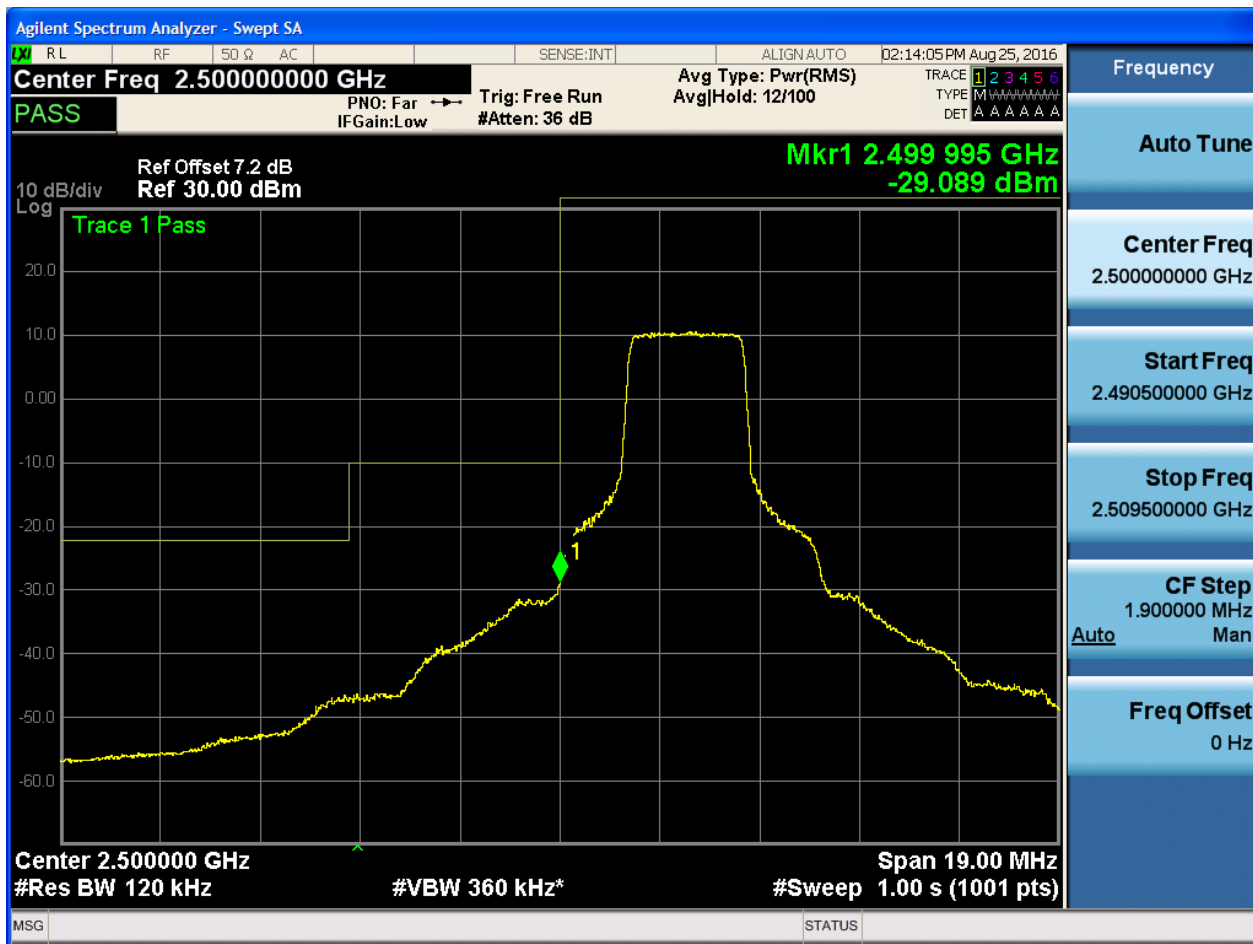


5.1.1.1.1.2 Test RB = RB1#24



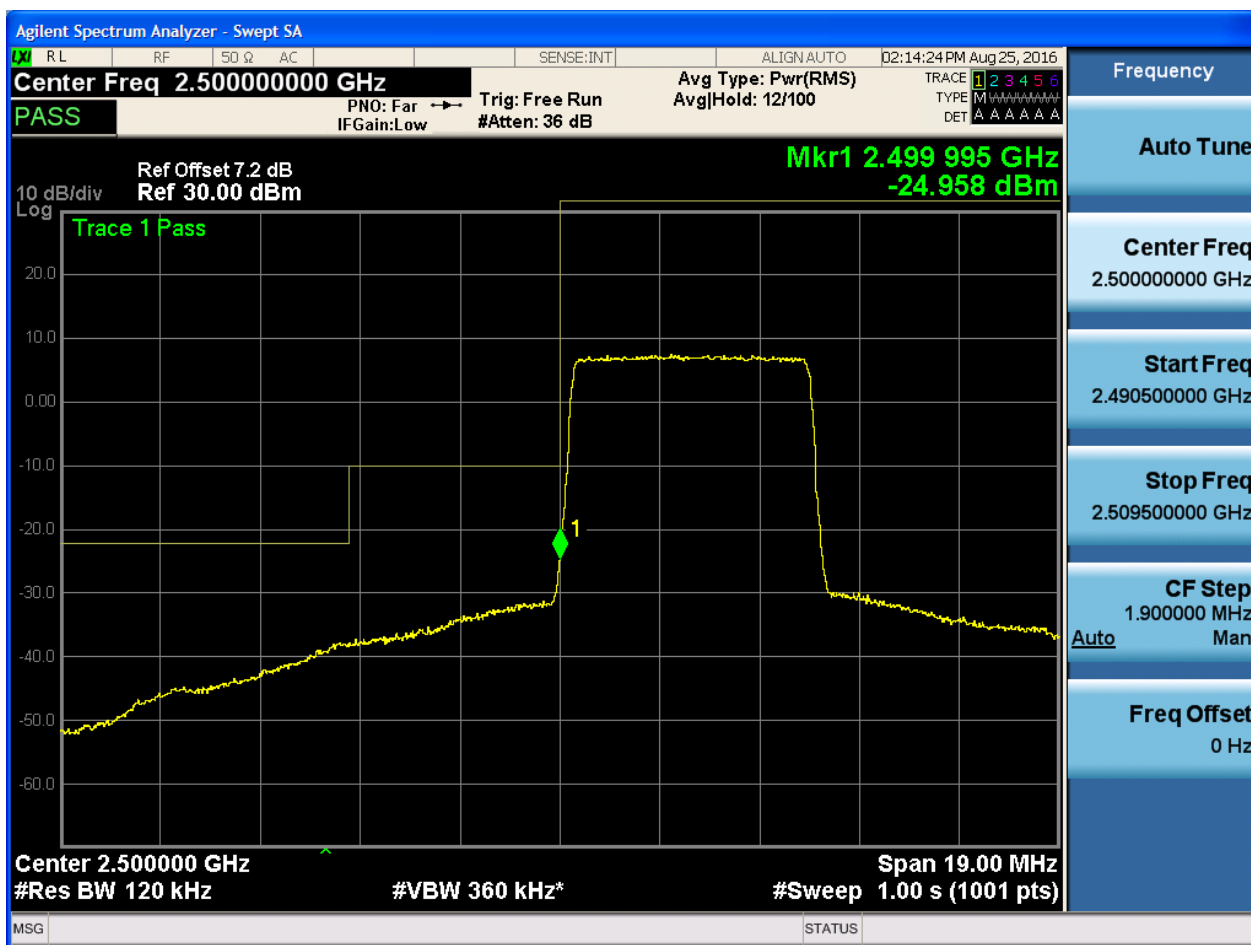


5.1.1.1.1.3 Test RB = RB12#6





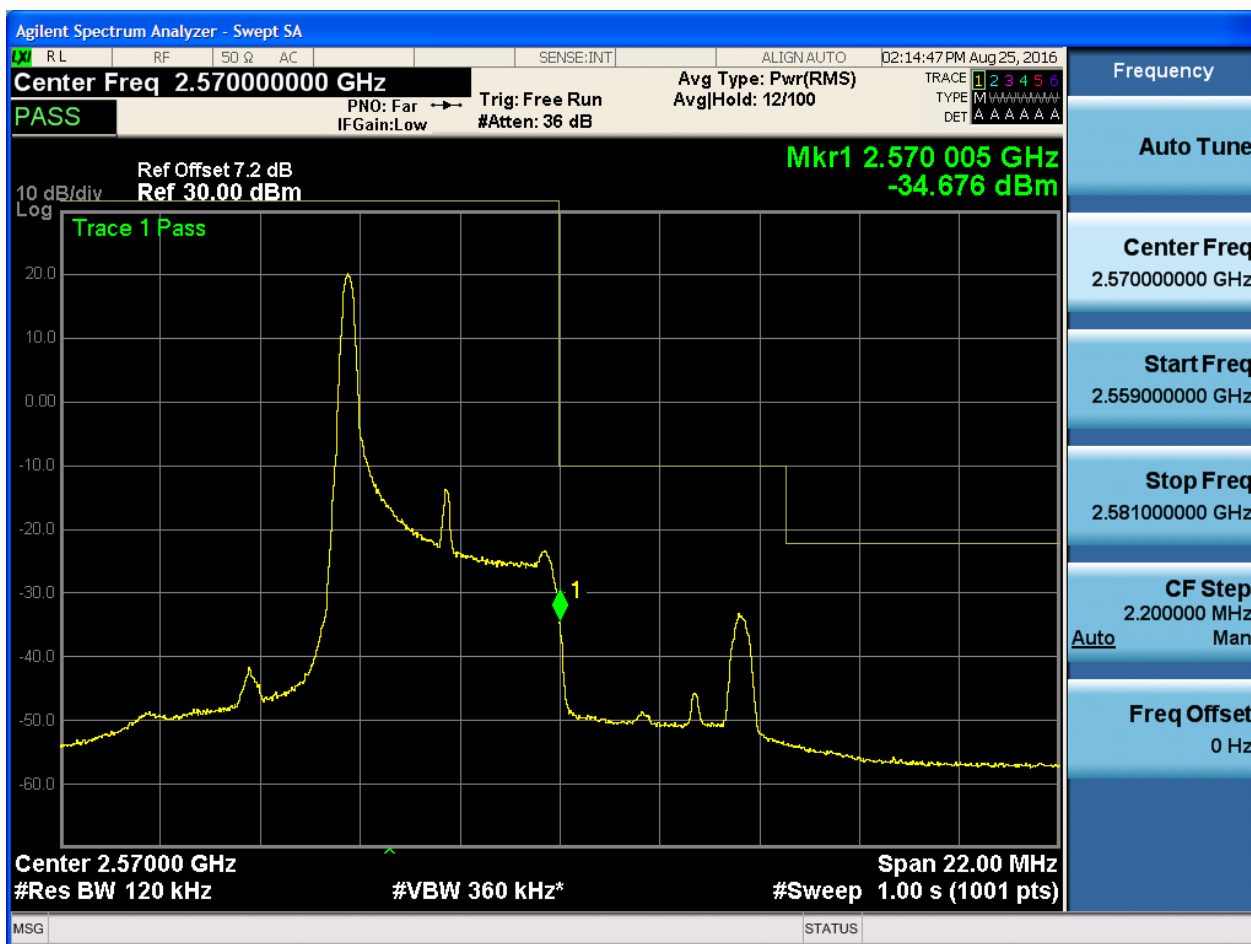
5.1.1.1.1.4 Test RB = RB25#0





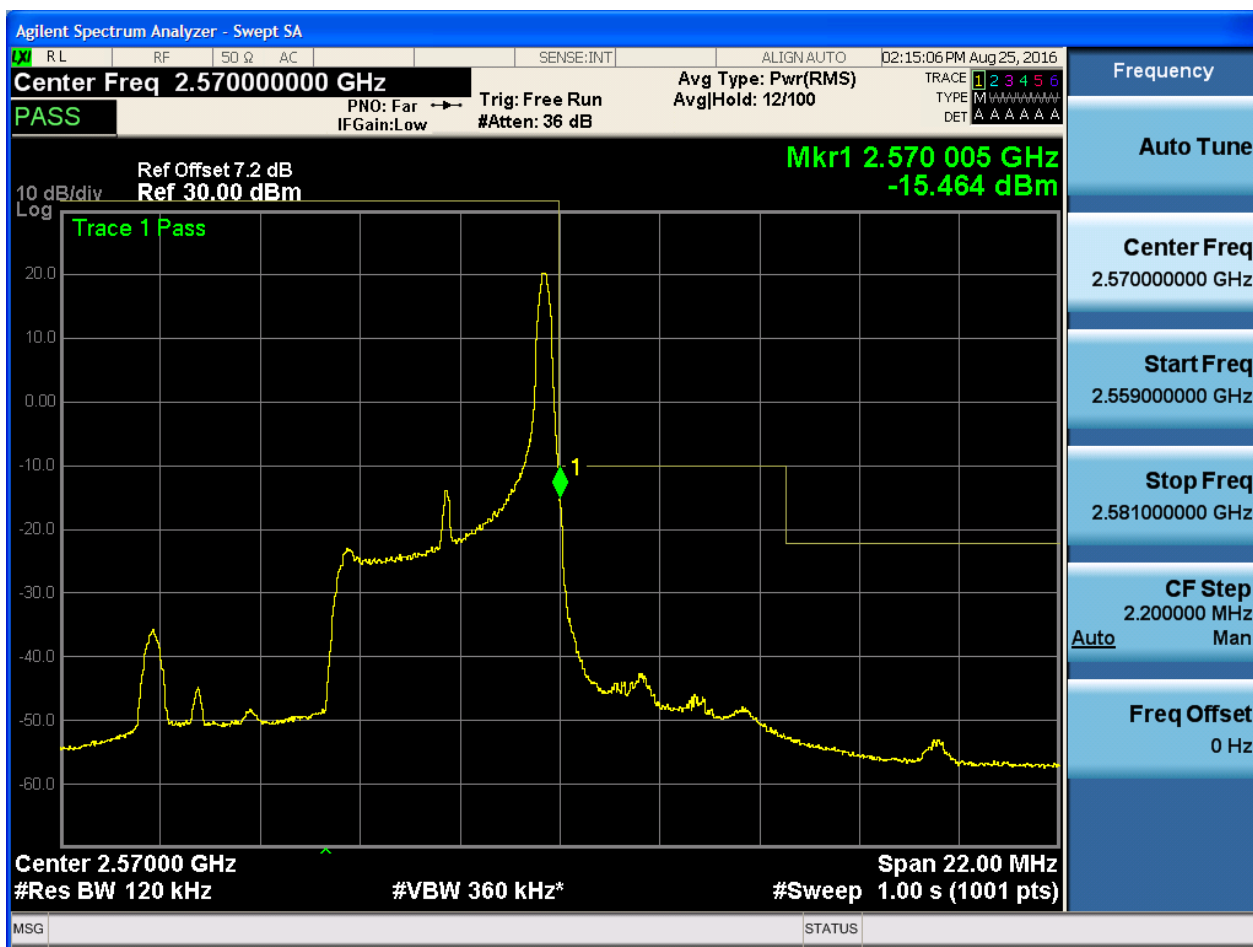
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



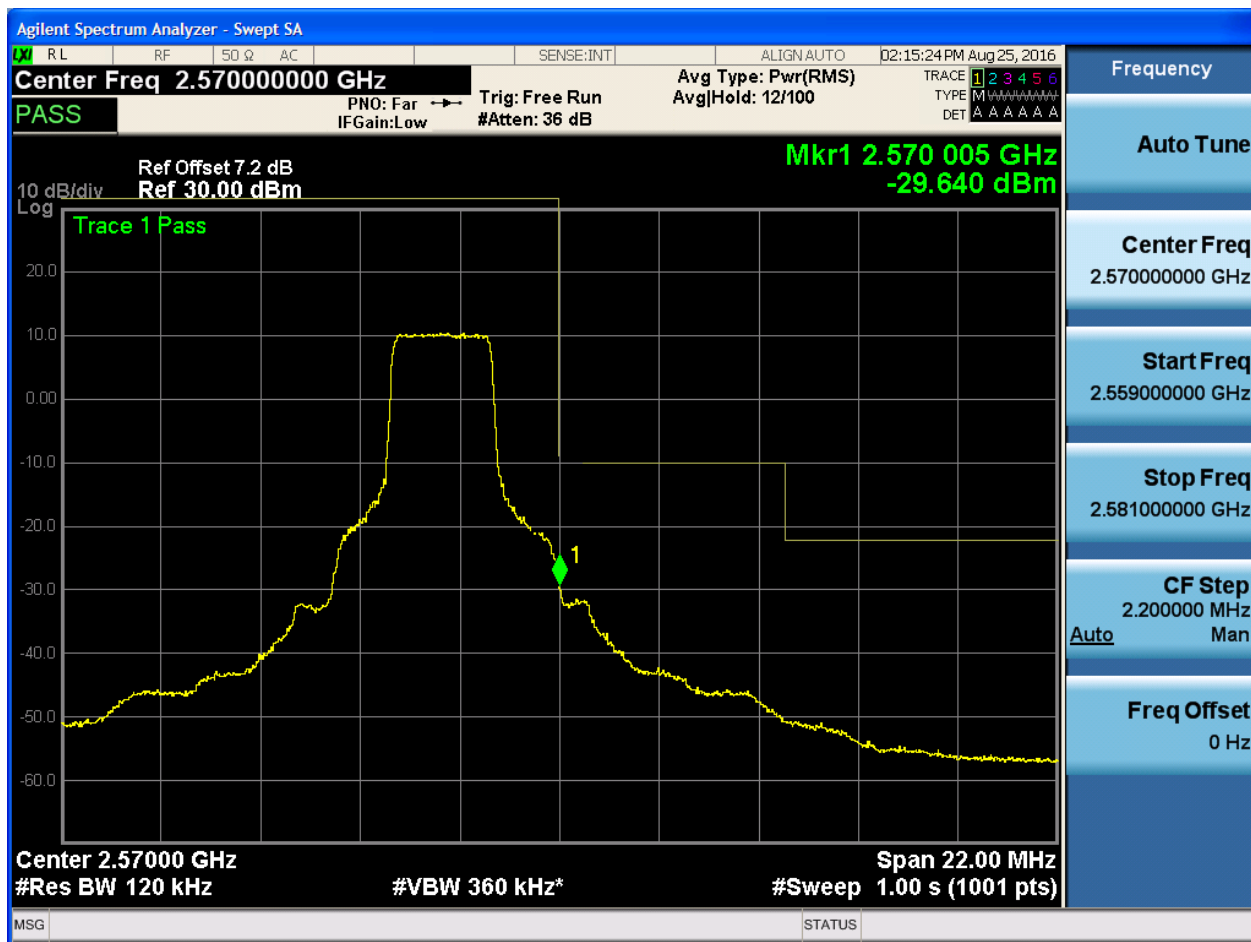


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

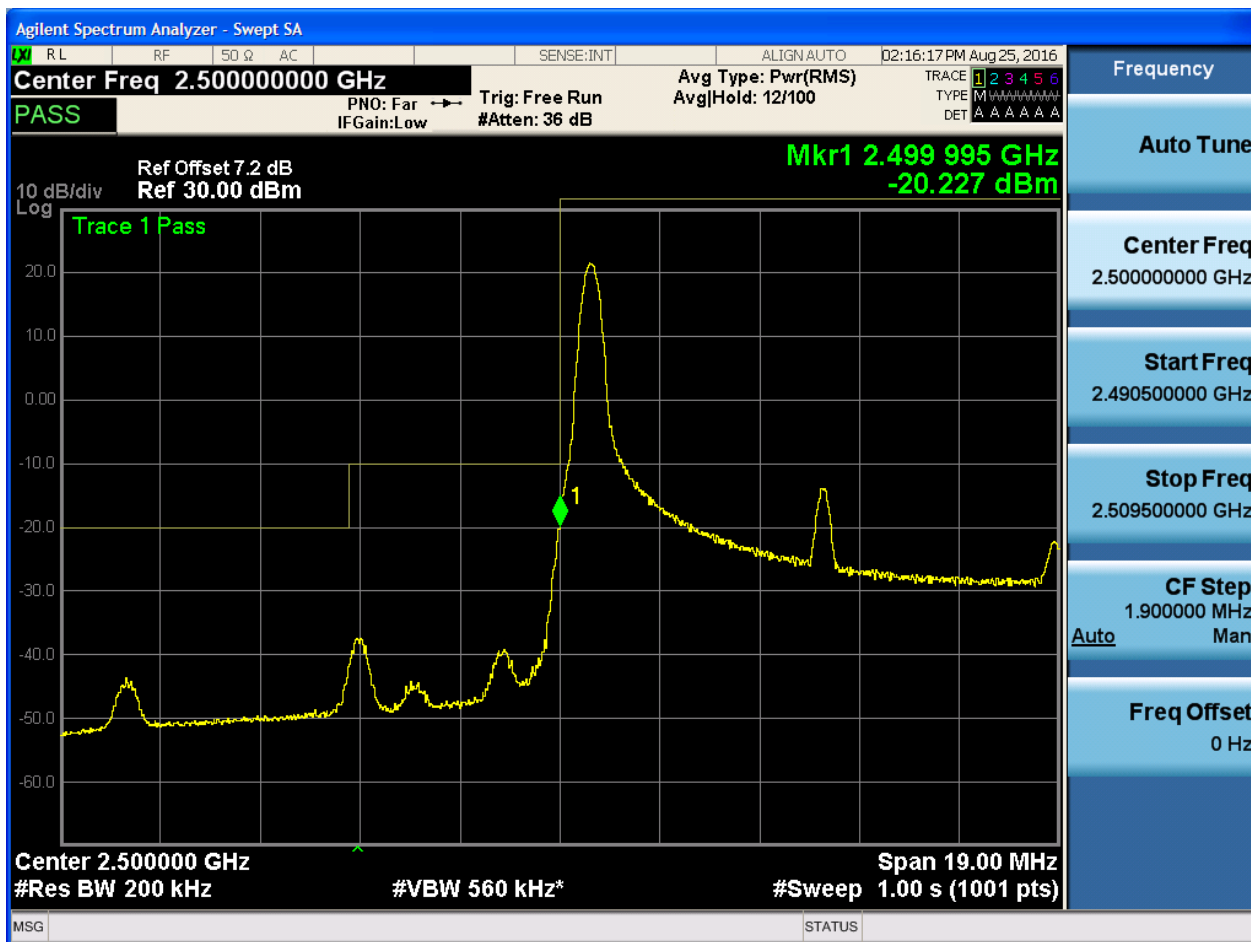




5.1.1.1.2 Test Bandwidth = 10

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:16:54 PM Aug 25, 2016

Center Freq 2.50000000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PASS PNO: Far Trig: Free Run Avg|Hold: 12/100 TYPE M W W W W W W W
IFGain: Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.2 dB Mkr1 2.499 995 GHz
Ref 30.00 dBm -33.047 dBm

10 dB/div Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 560 kHz* #Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.50000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz

MSG STATUS



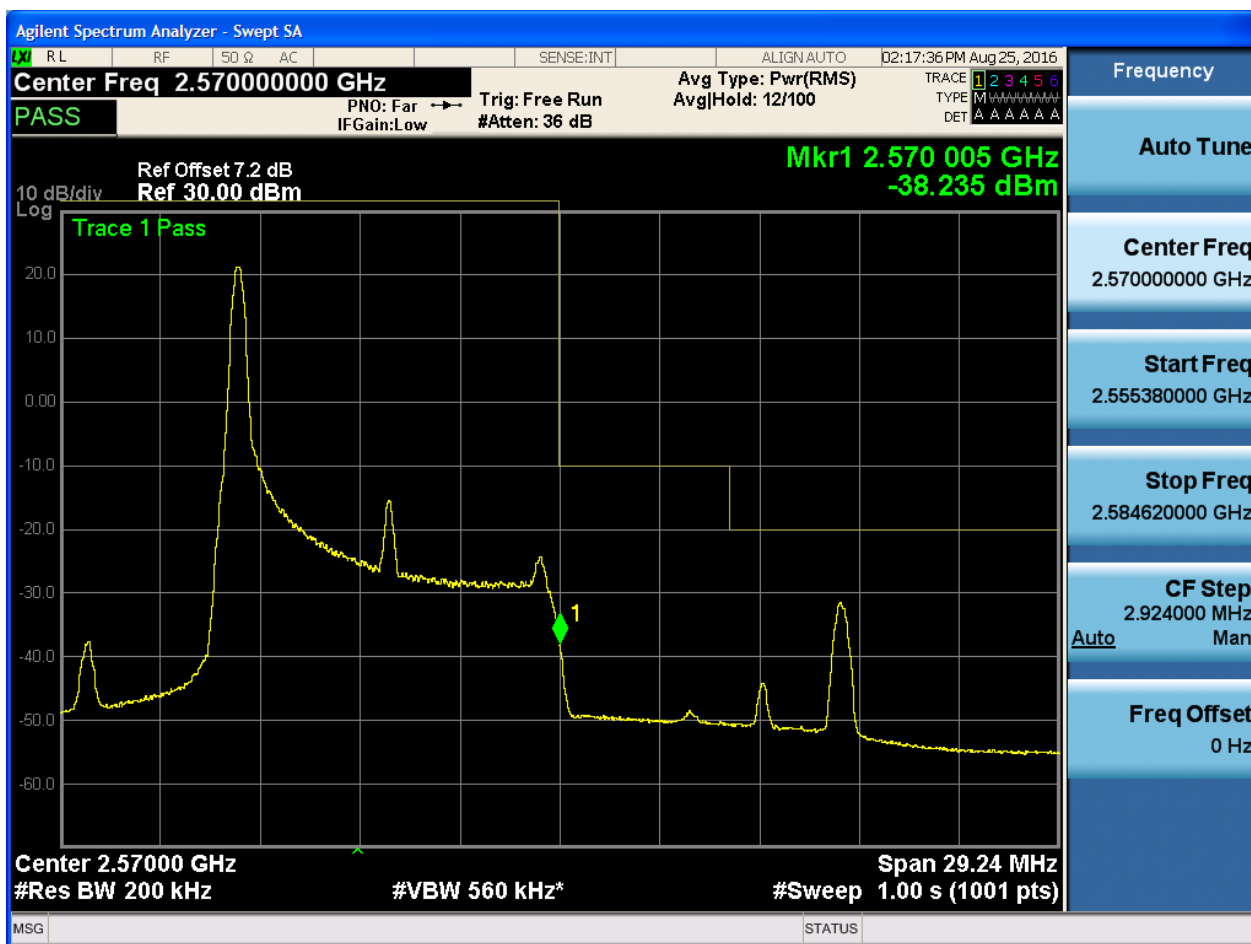
5.1.1.1.2.1.4 Test RB = RB50#0





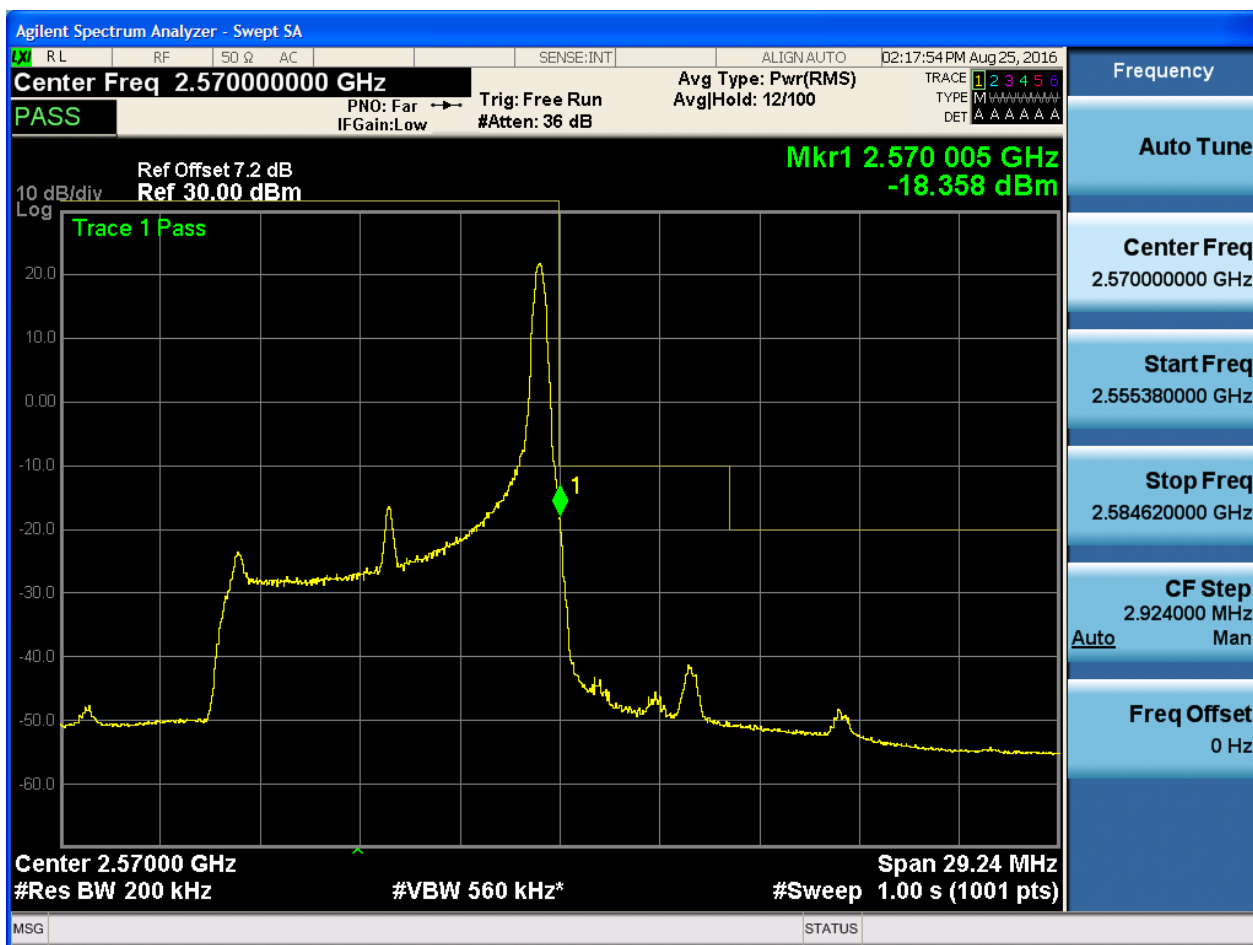
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49



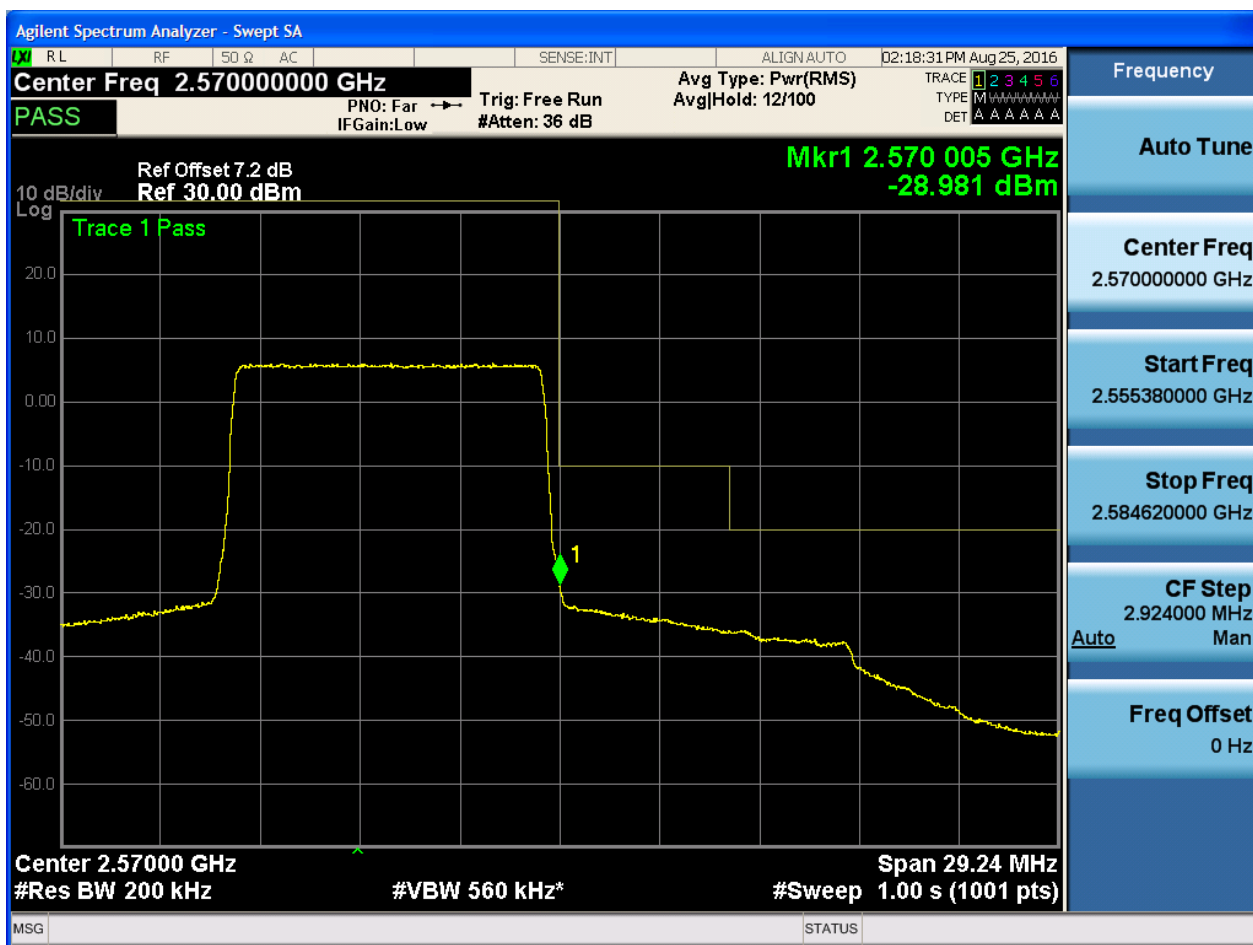


5.1.1.1.2.2.3 Test RB = RB25#13





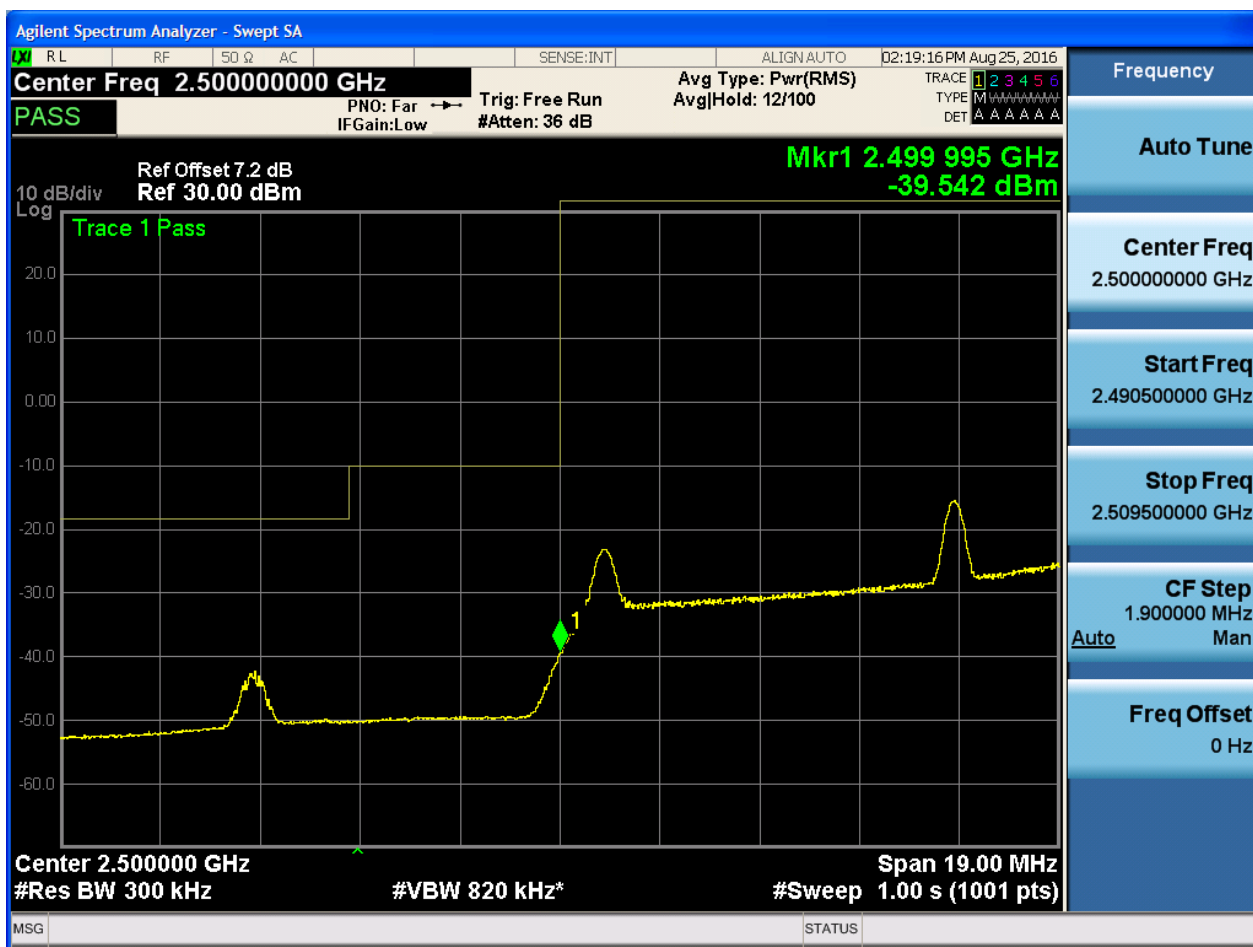
5.1.1.1.2.2.4 Test RB = RB50#0





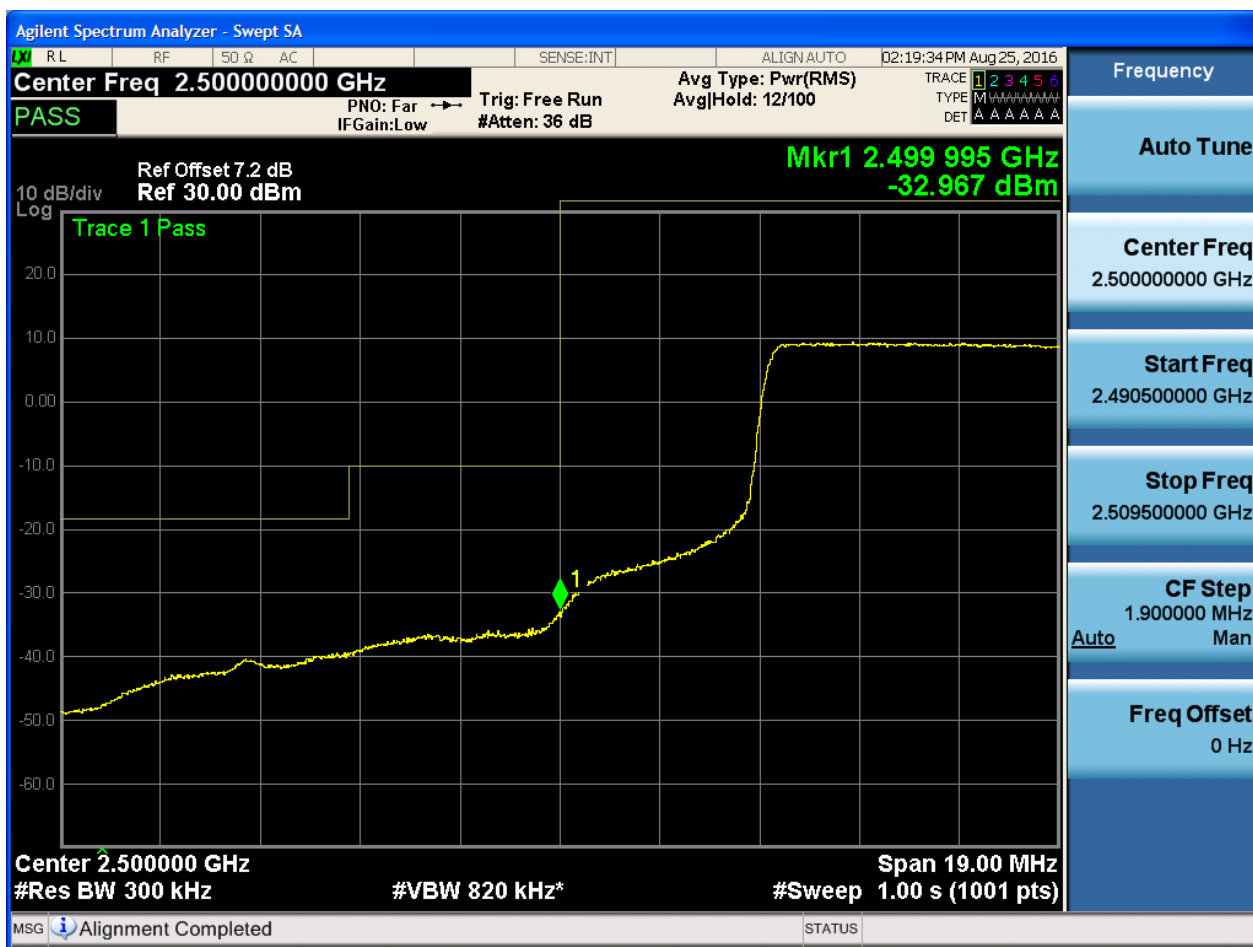


5.1.1.1.3.1.2 Test RB = RB1#74





5.1.1.1.3.1.3 Test RB = RB36#18



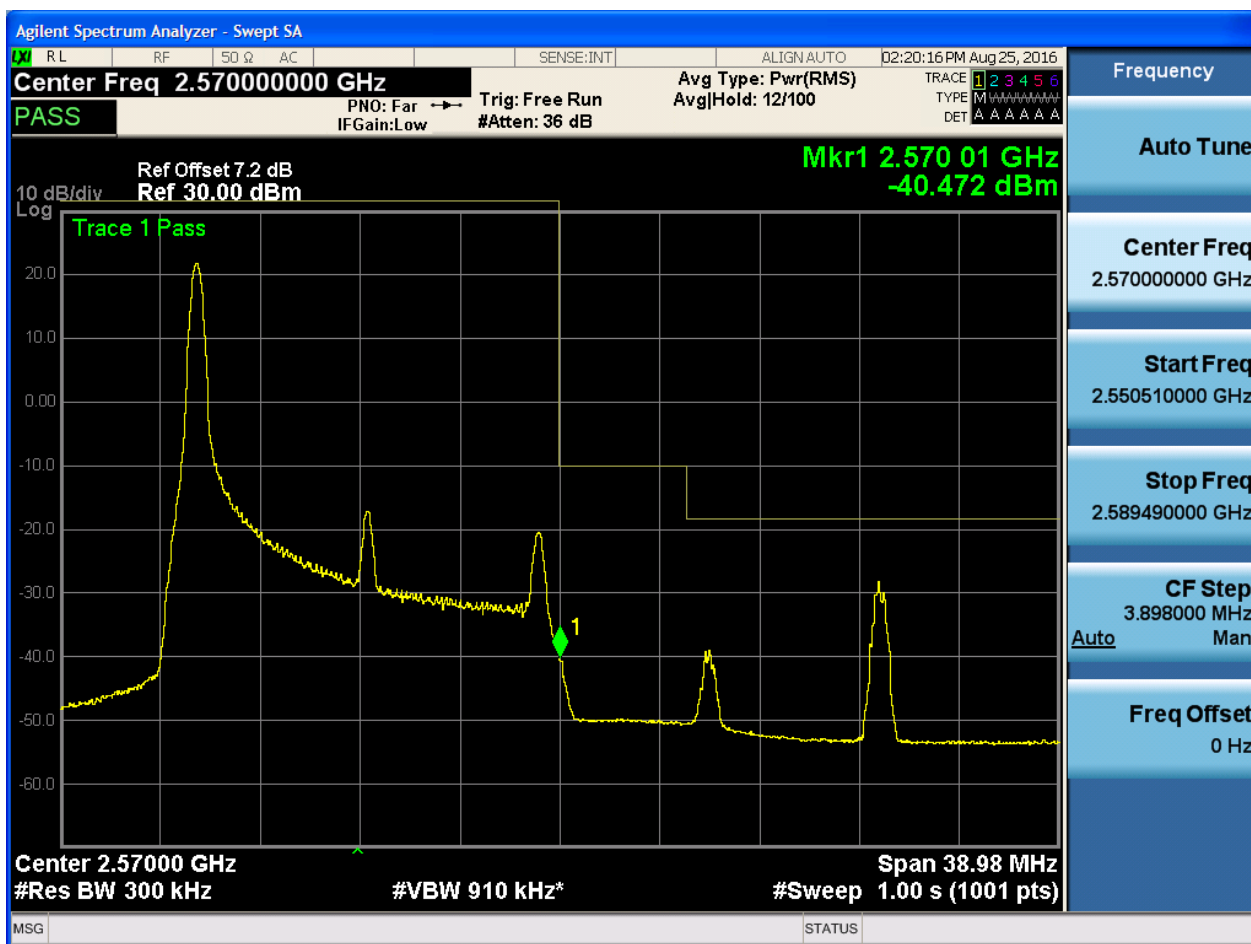


5.1.1.1.3.1.4 Test RB = RB75#0



5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





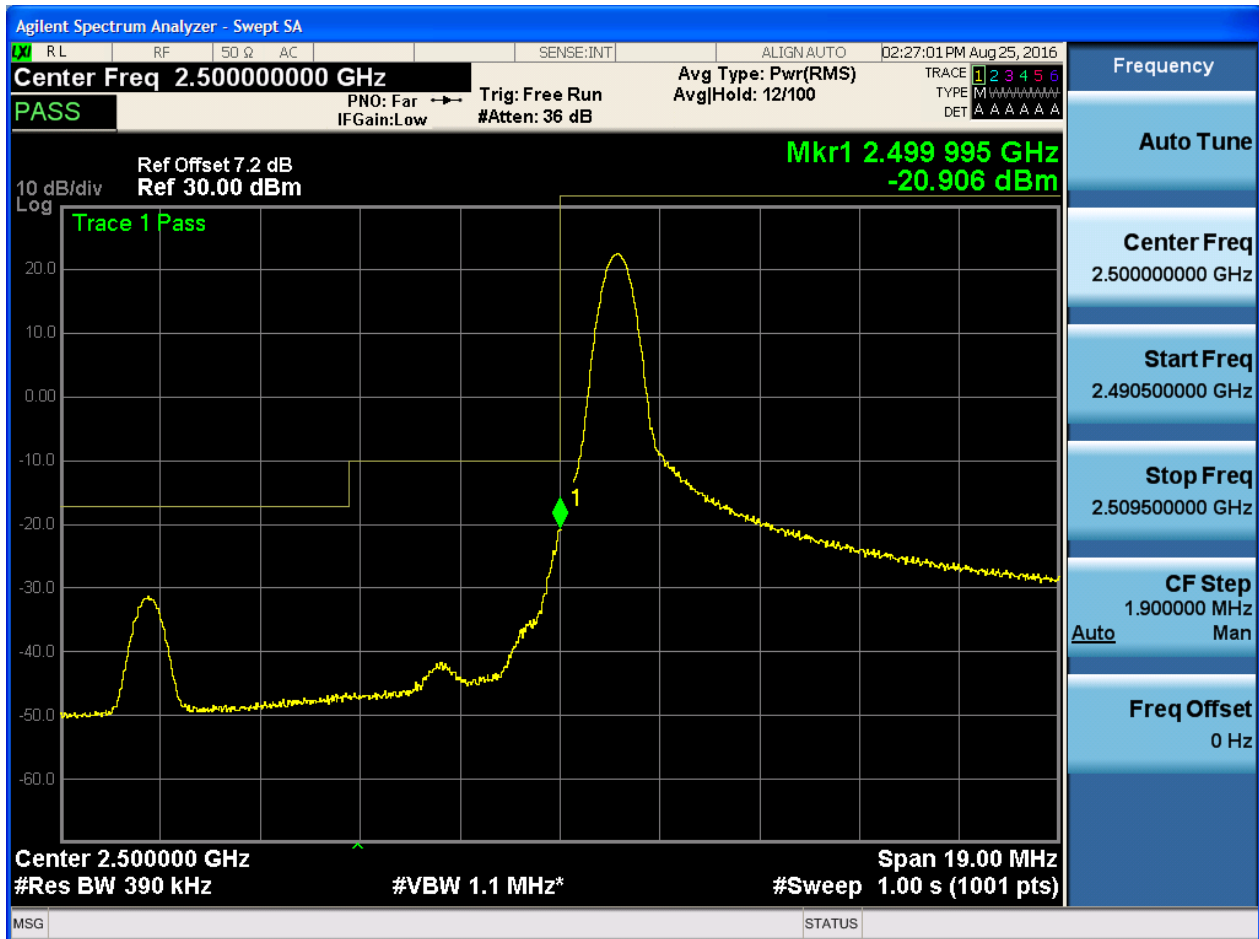
5.1.1.1.3.2.4 Test RB = RB75#0



5.1.1.1.4 Test Bandwidth = 20

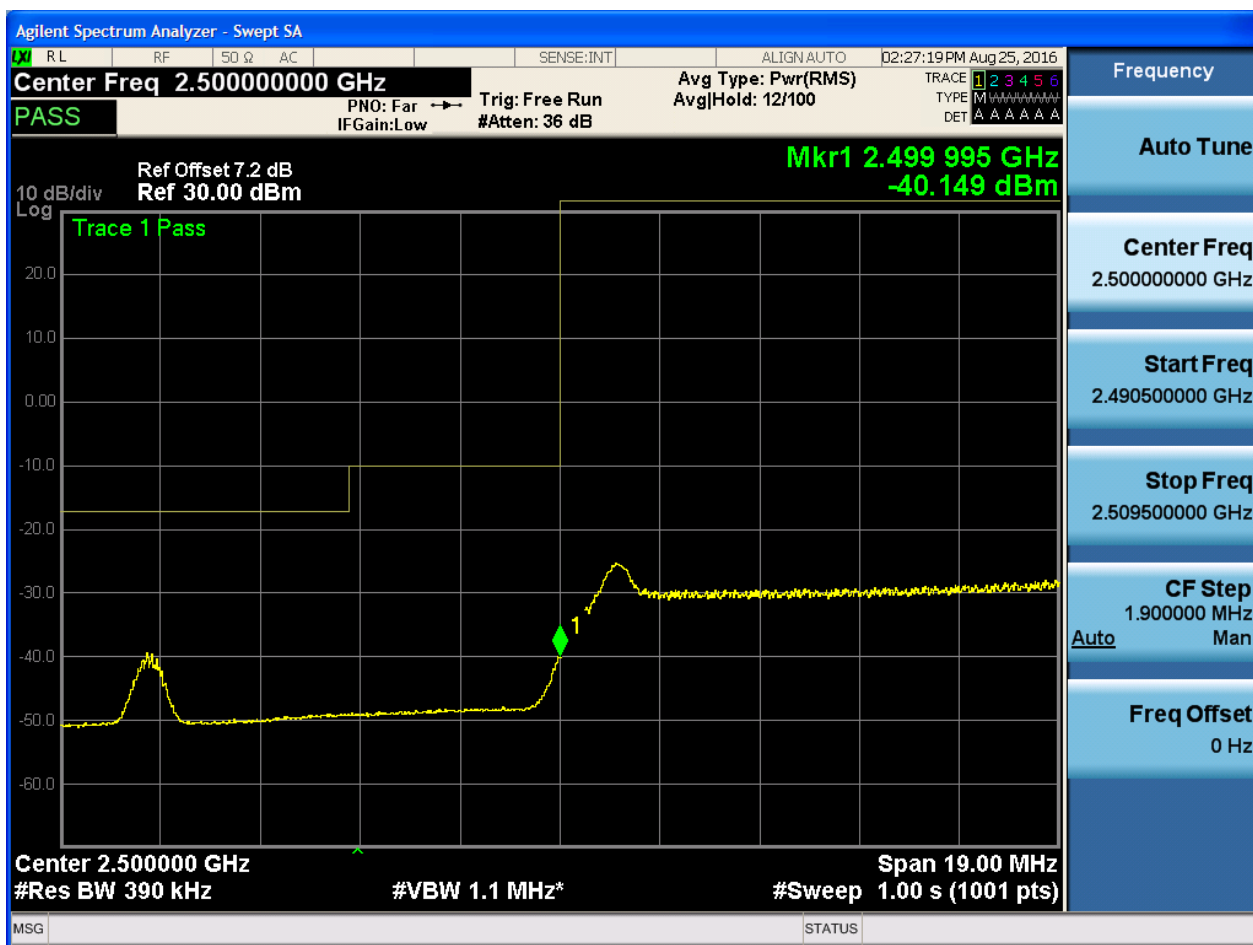
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.2 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-34.203 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 390 kHz
#VBW 1.1 MHz*

Span 19.00 MHz
#Sweep 1.00 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
Man

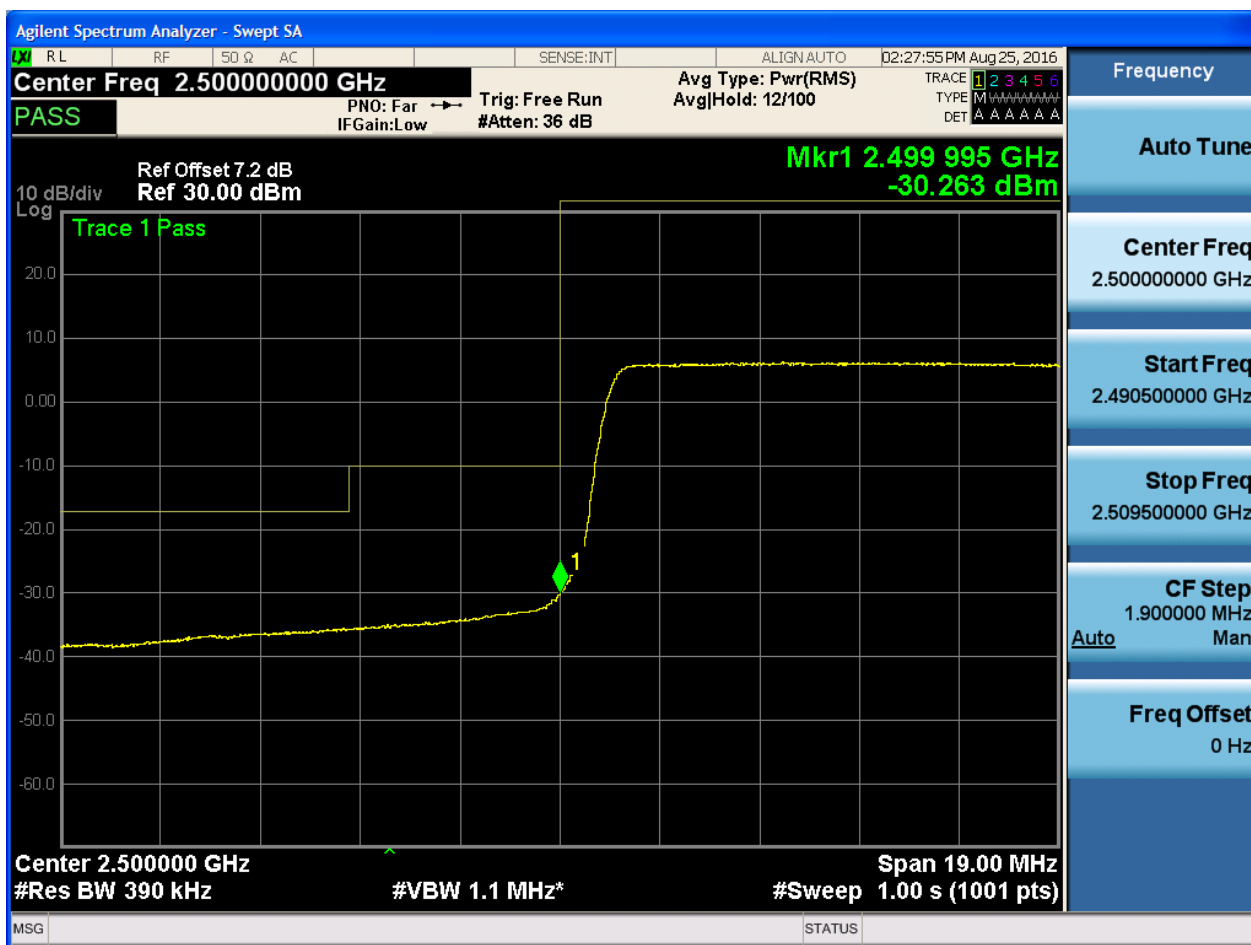
Freq Offset
0 Hz

MSG

STATUS



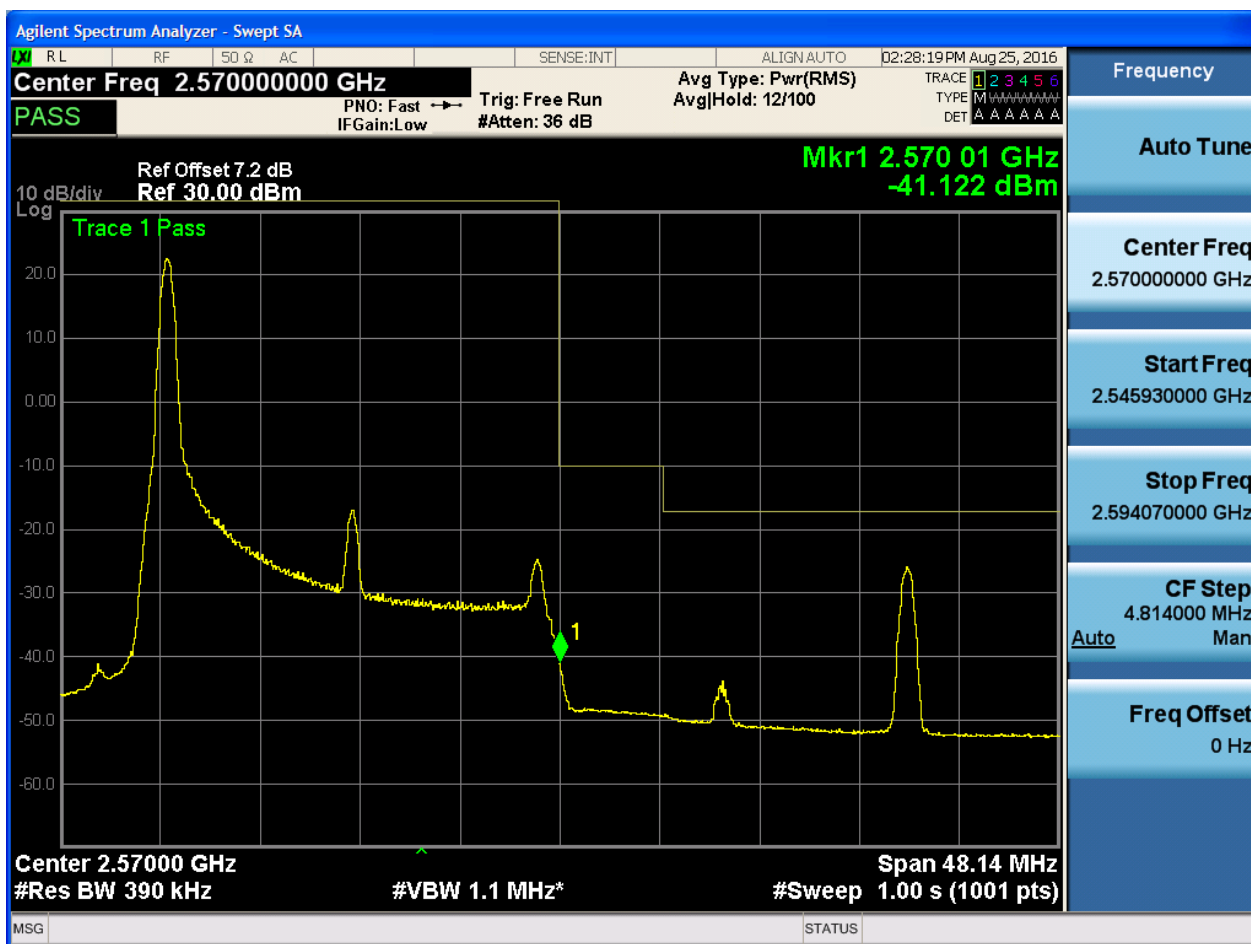
5.1.1.1.4.1.4 Test RB = RB100#0





5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0





5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



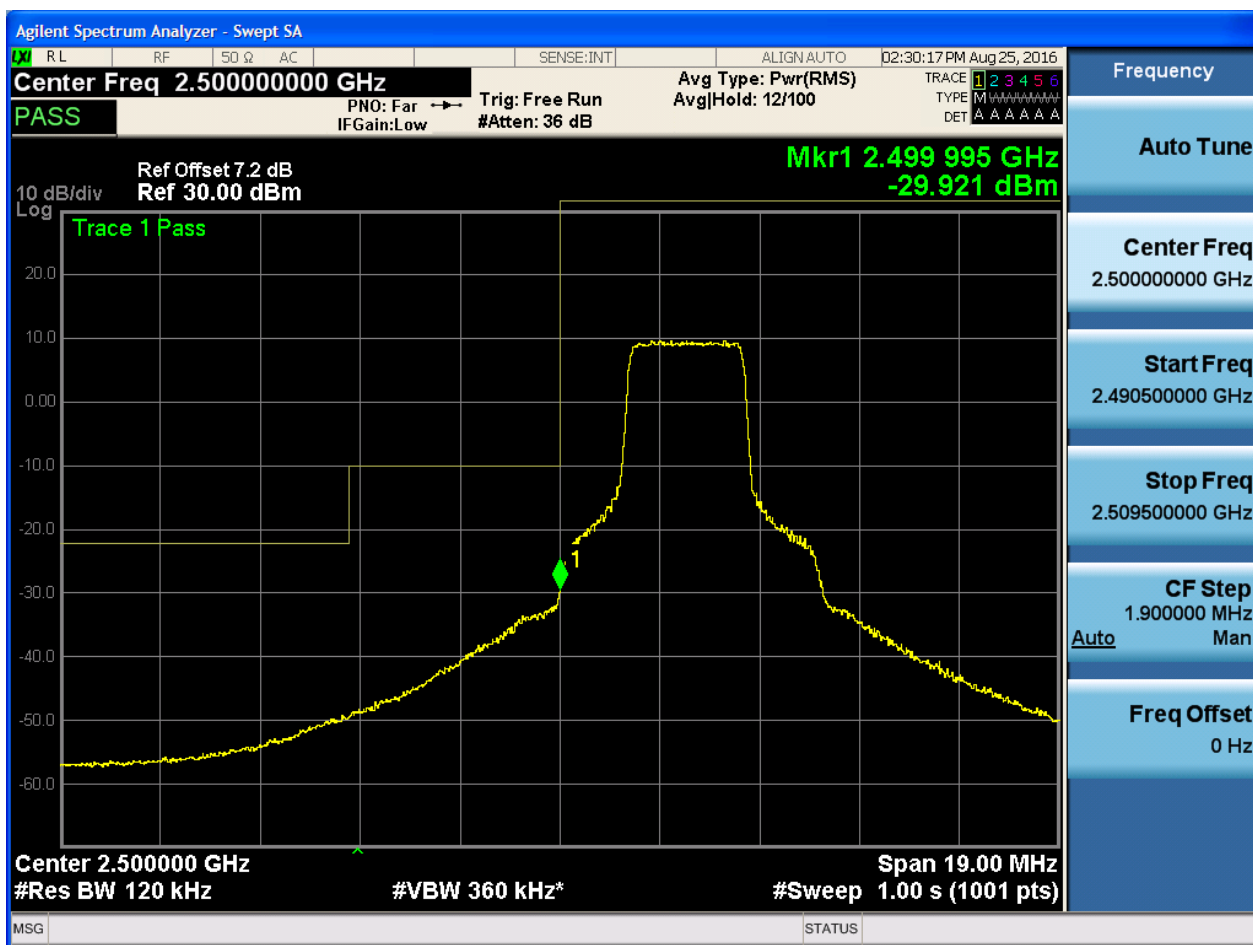


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





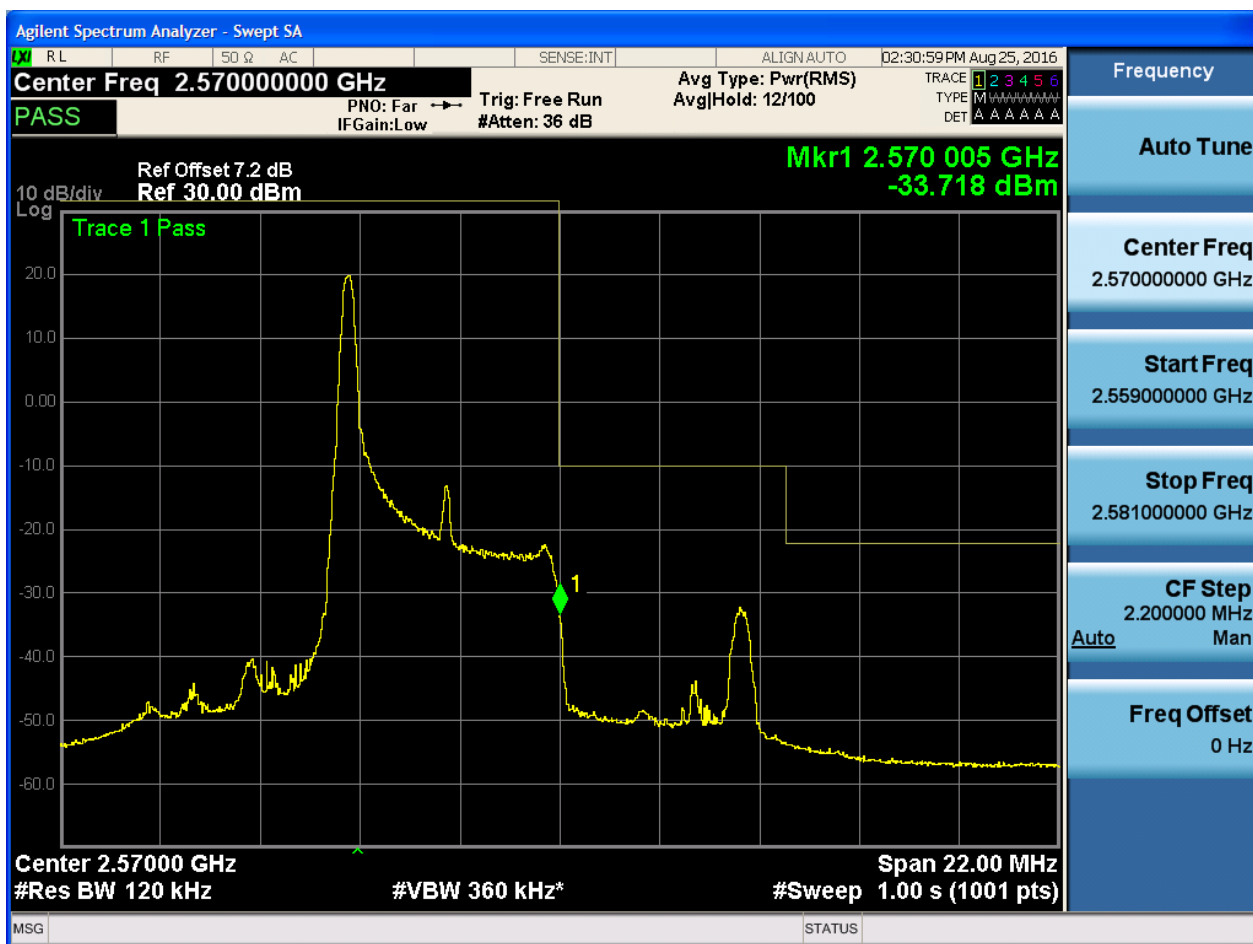
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



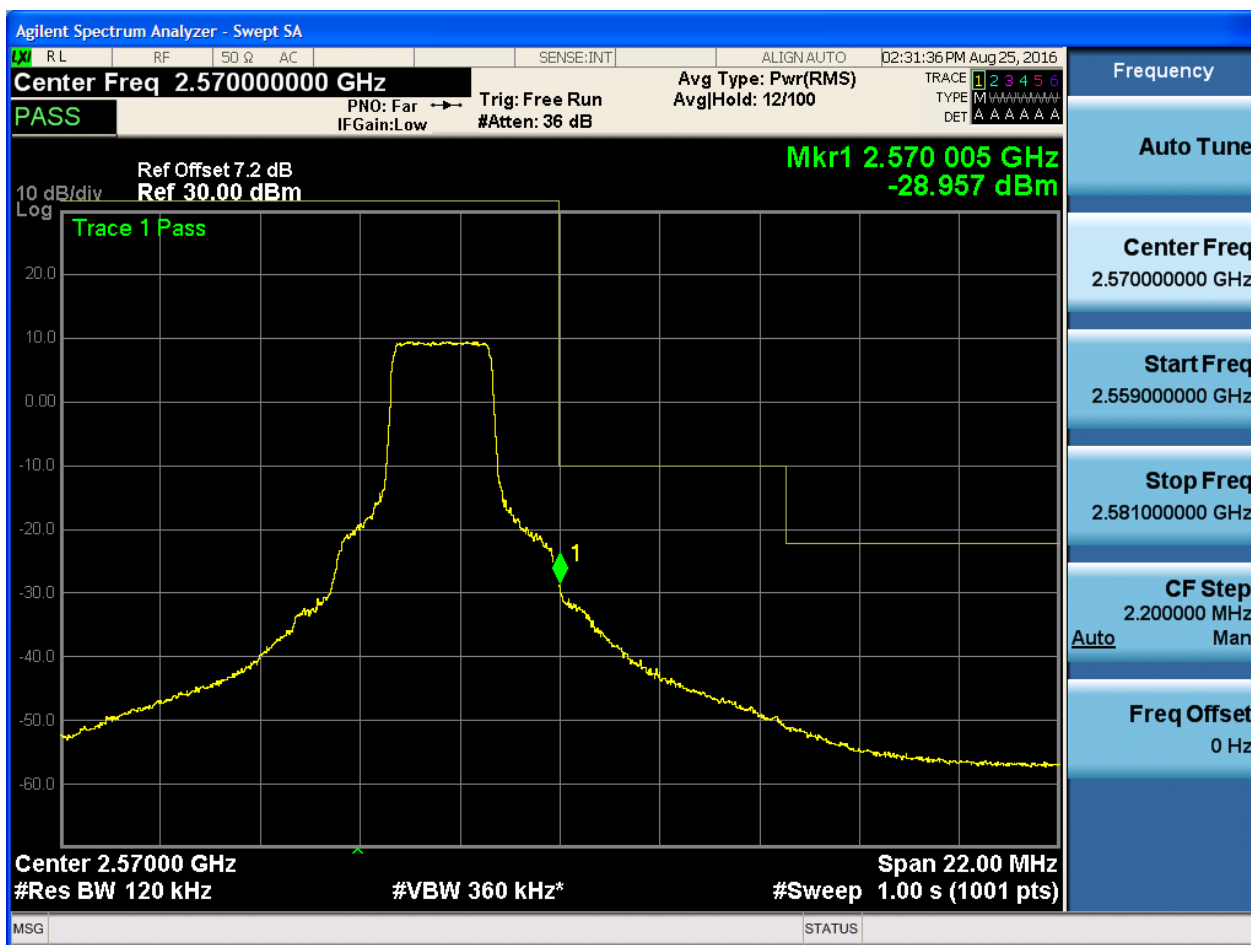


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





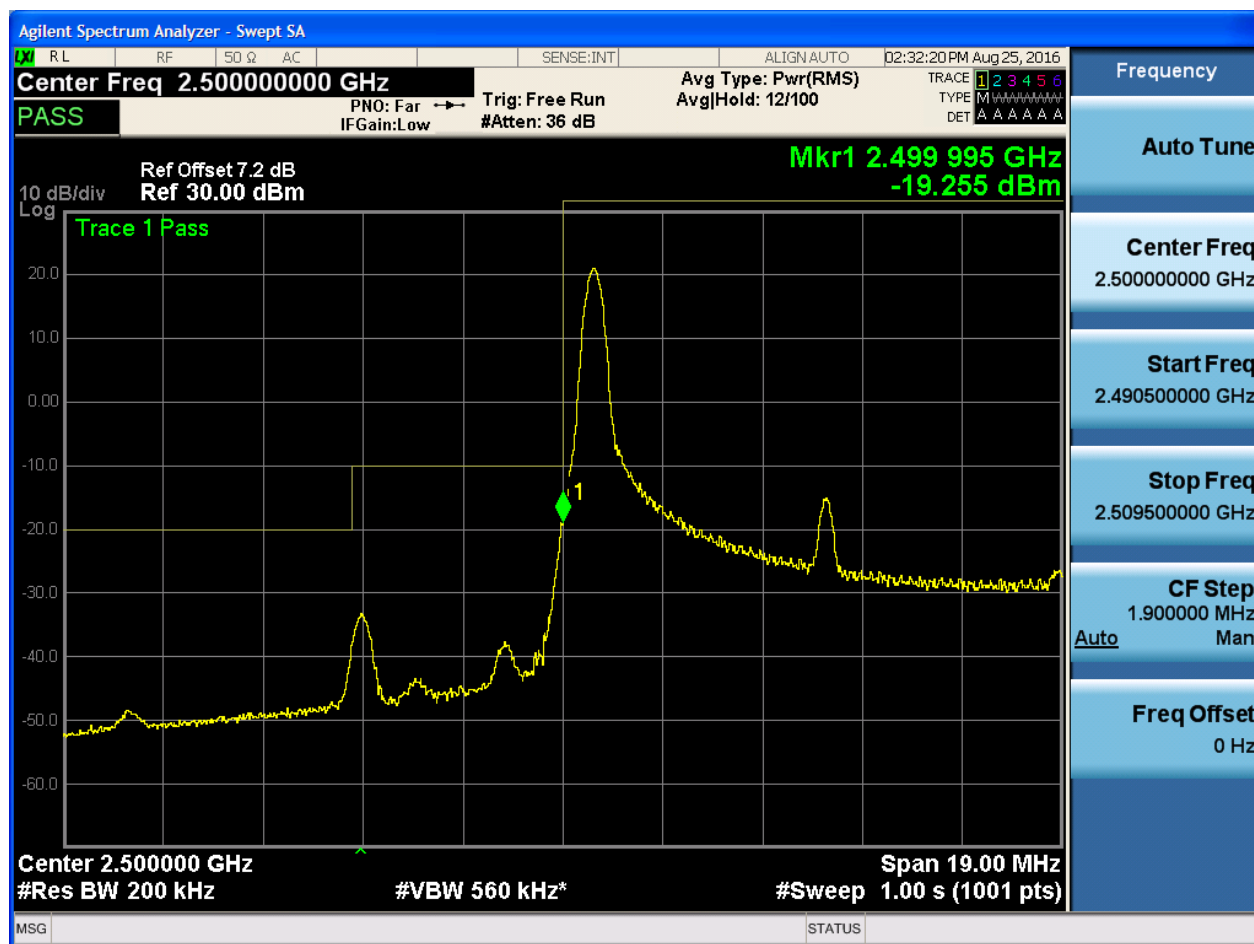
5.1.1.2.1.2.4 Test RB = RB25#0



5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



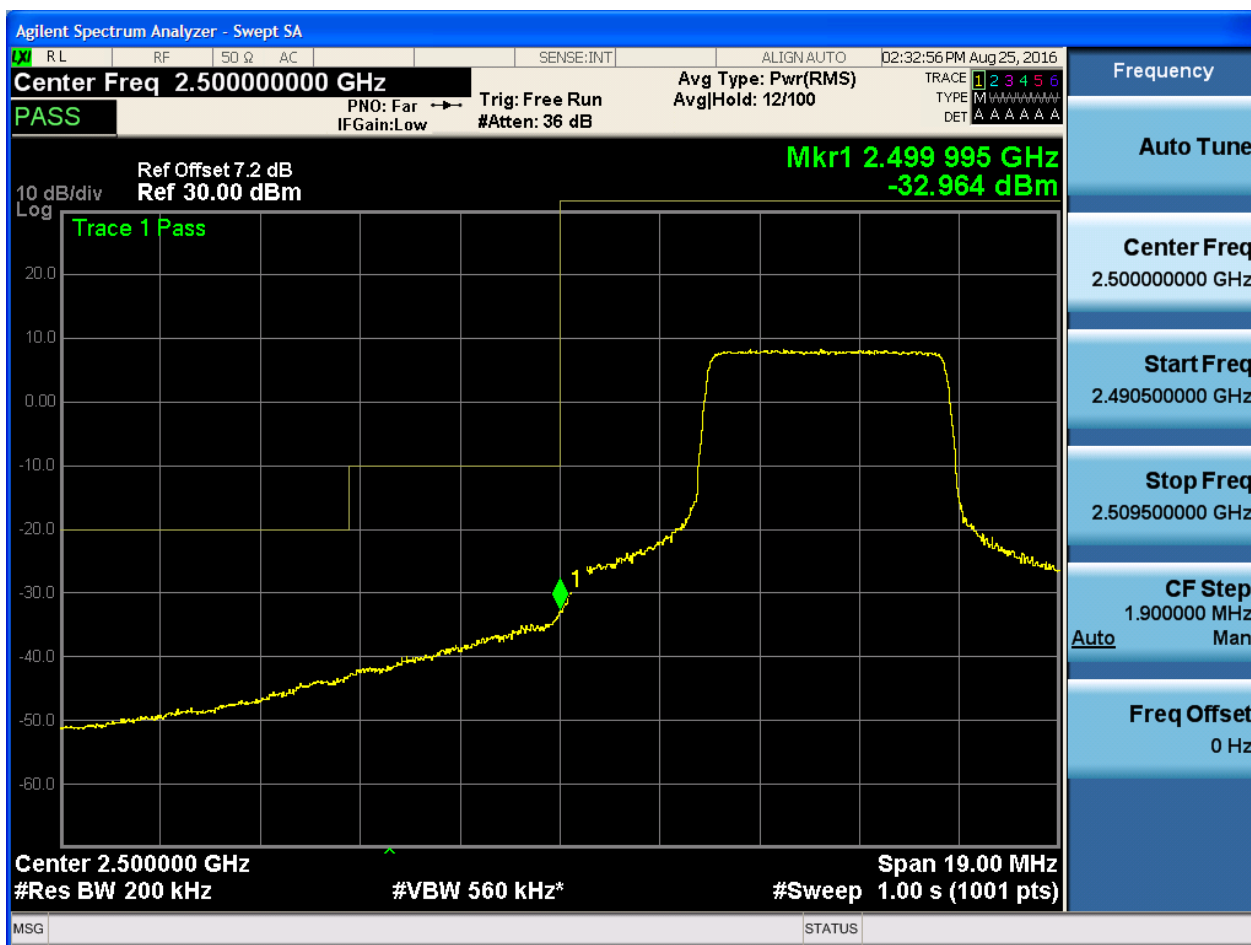


5.1.1.2.2.1.2 Test RB = RB1#49



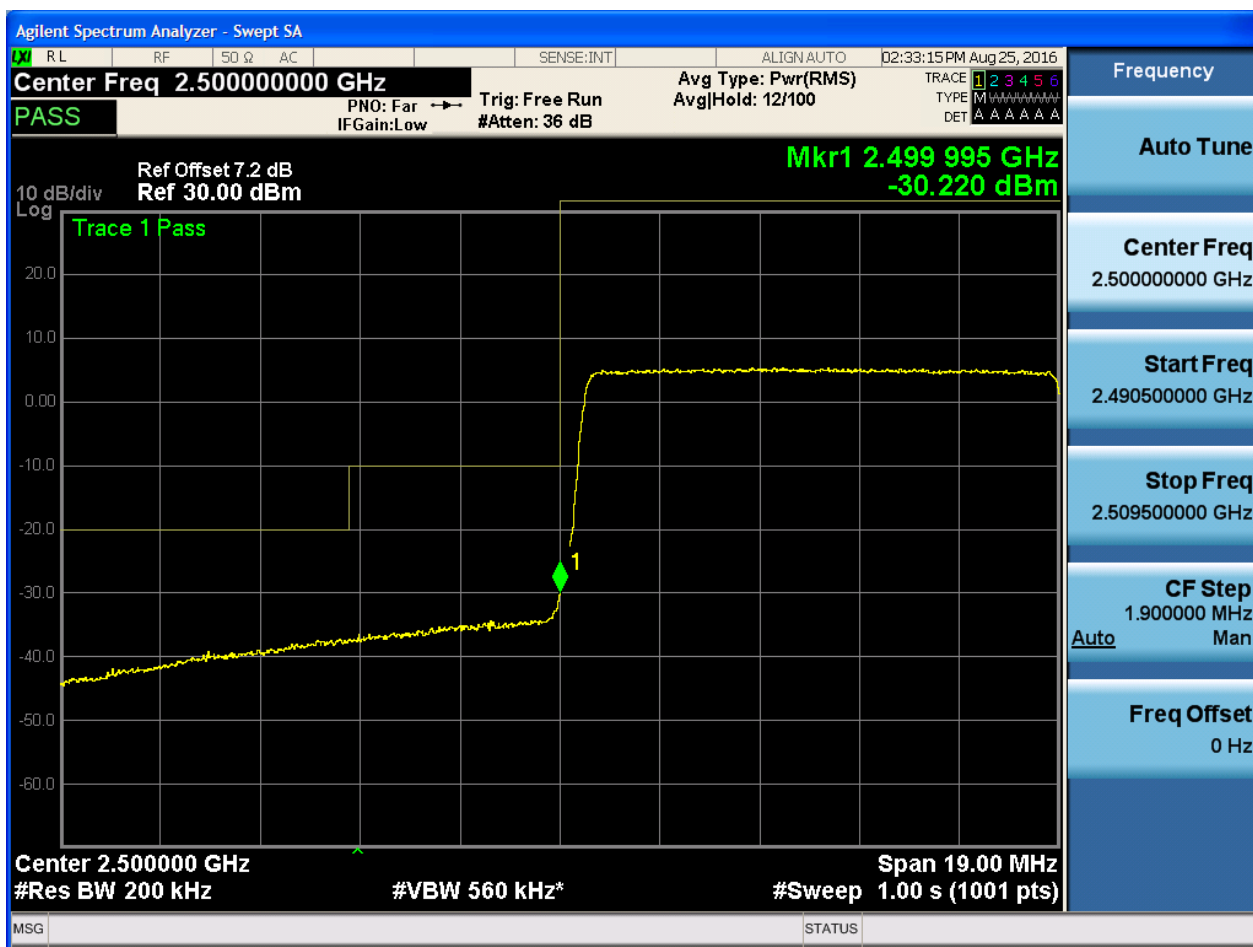


5.1.1.2.2.1.3 Test RB = RB25#13





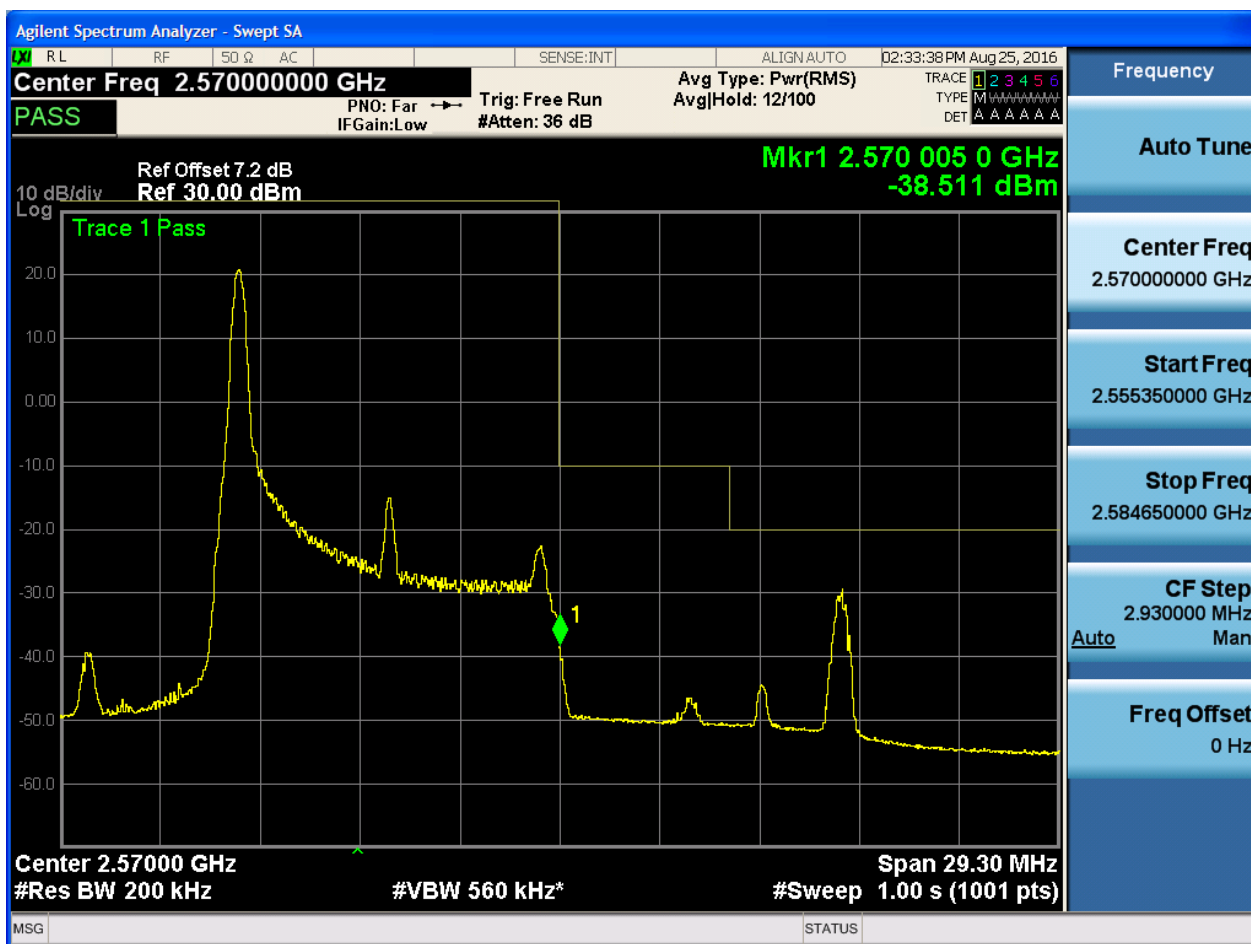
5.1.1.2.2.1.4 Test RB = RB50#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



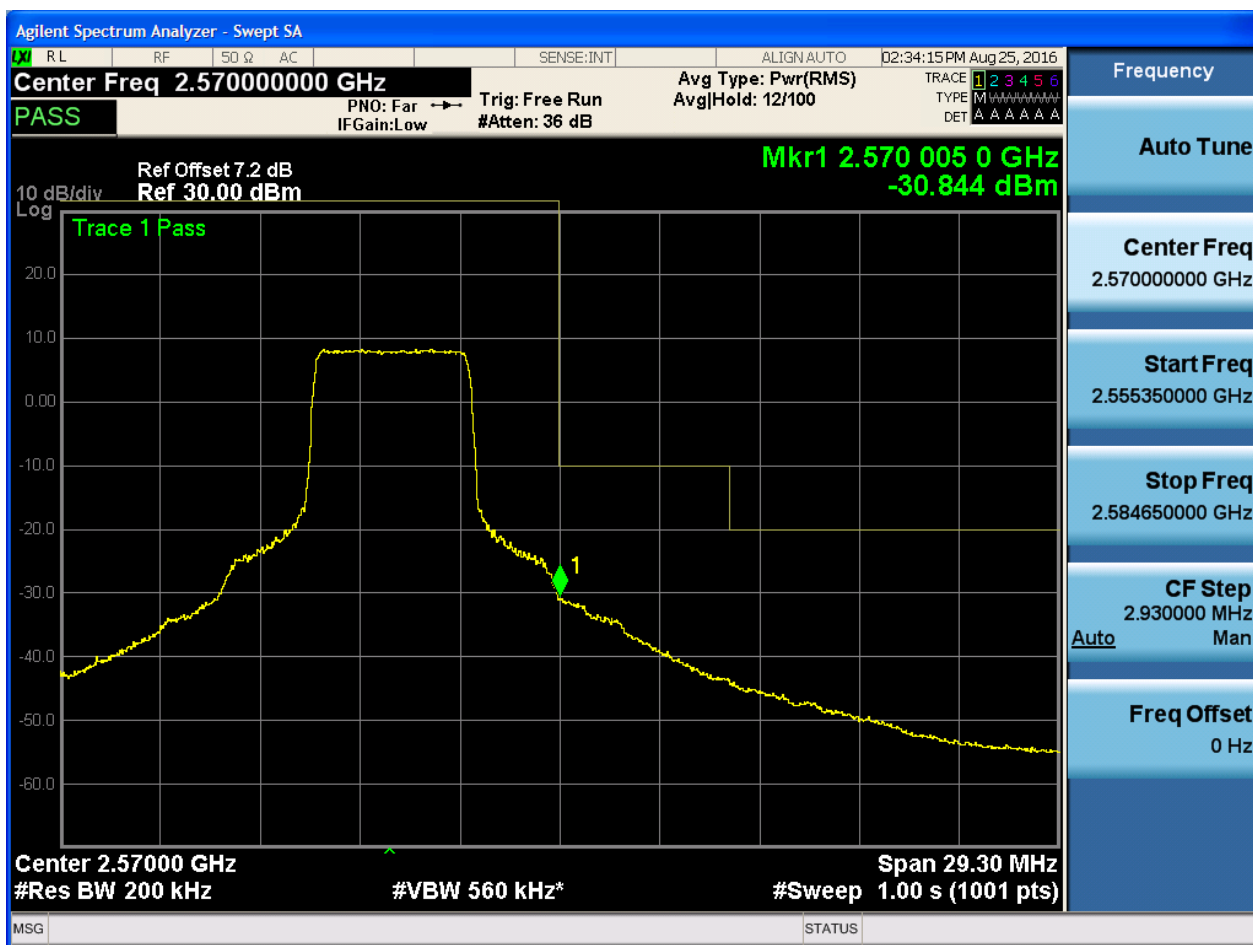


5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

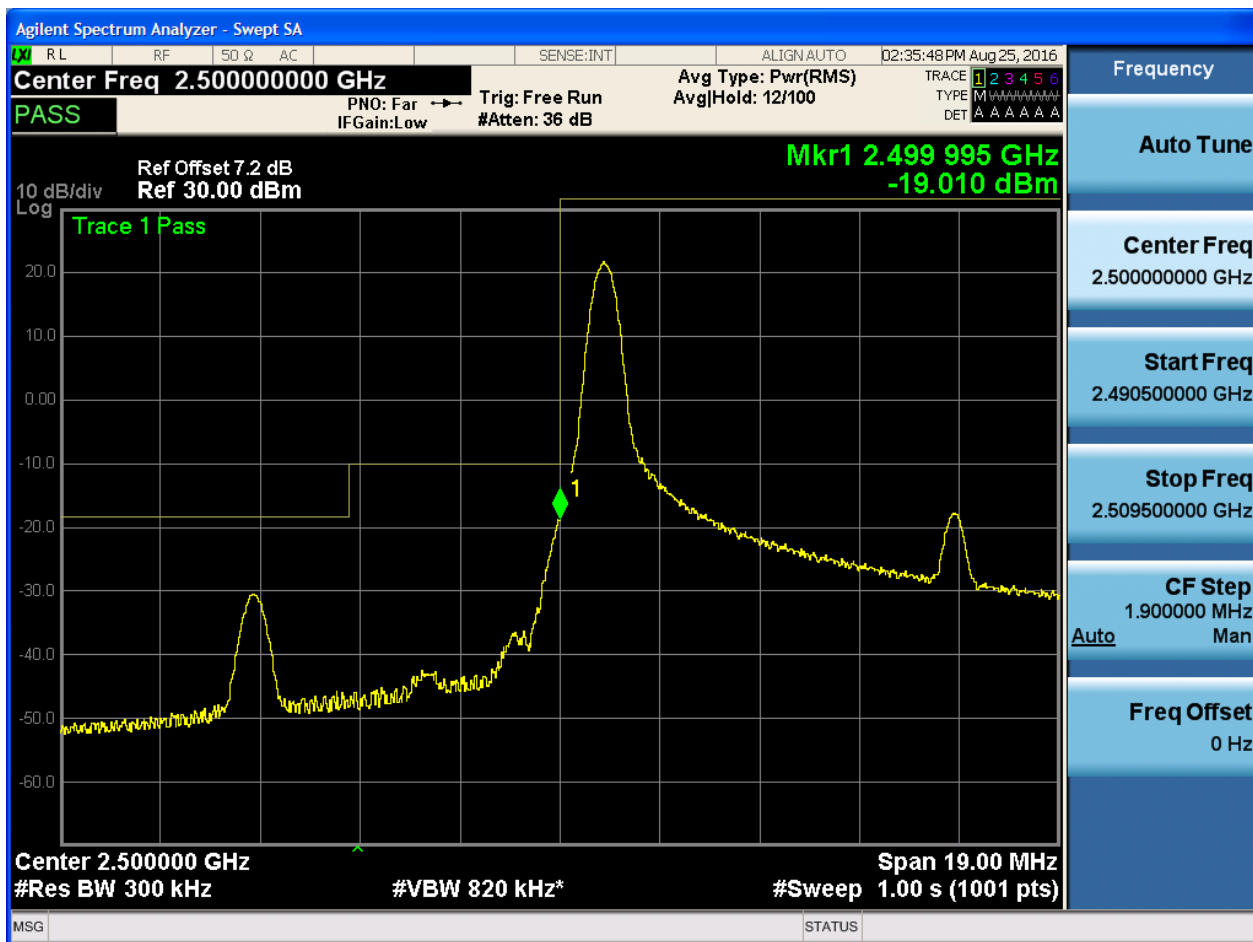




5.1.1.2.3 Test Bandwidth = 15

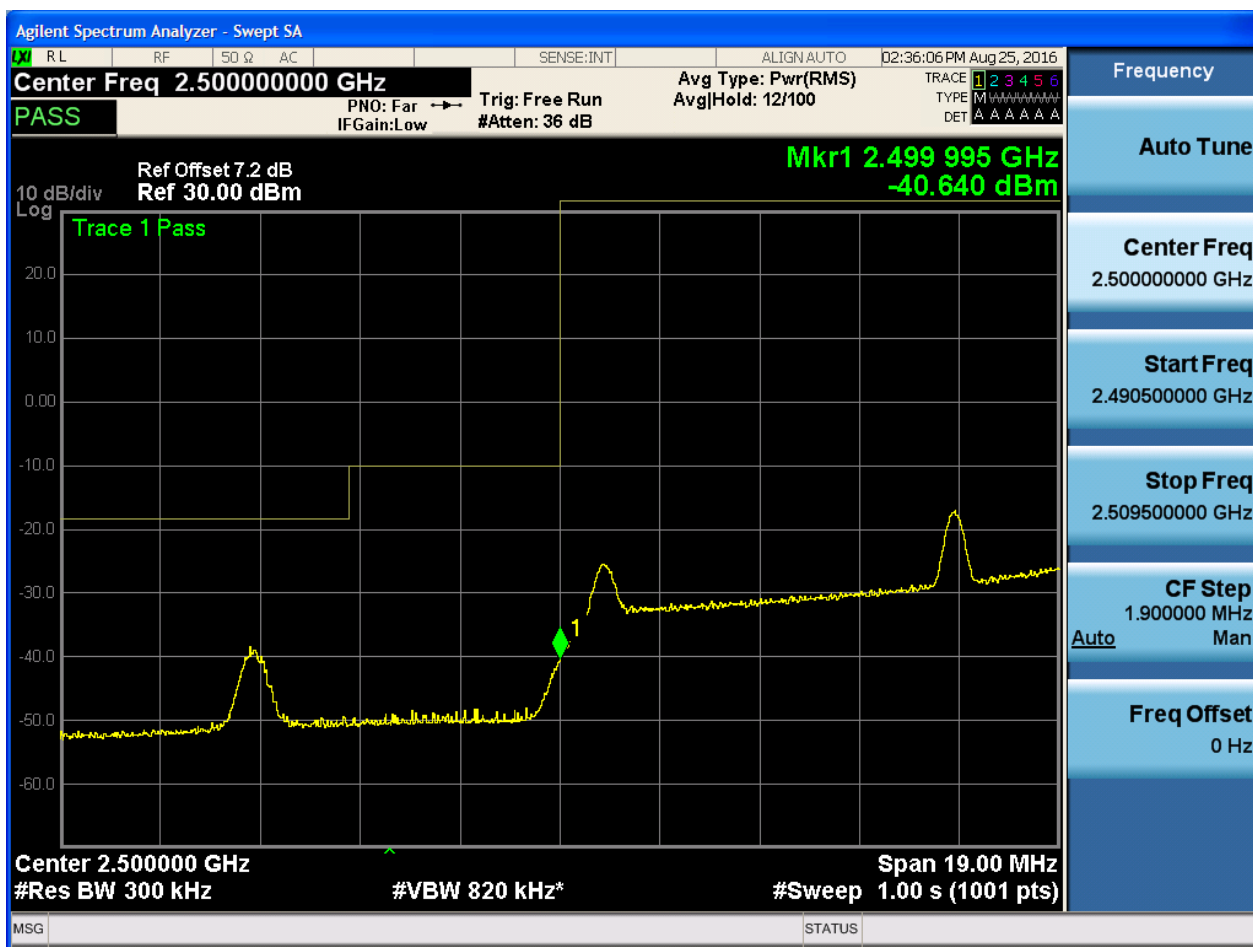
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74



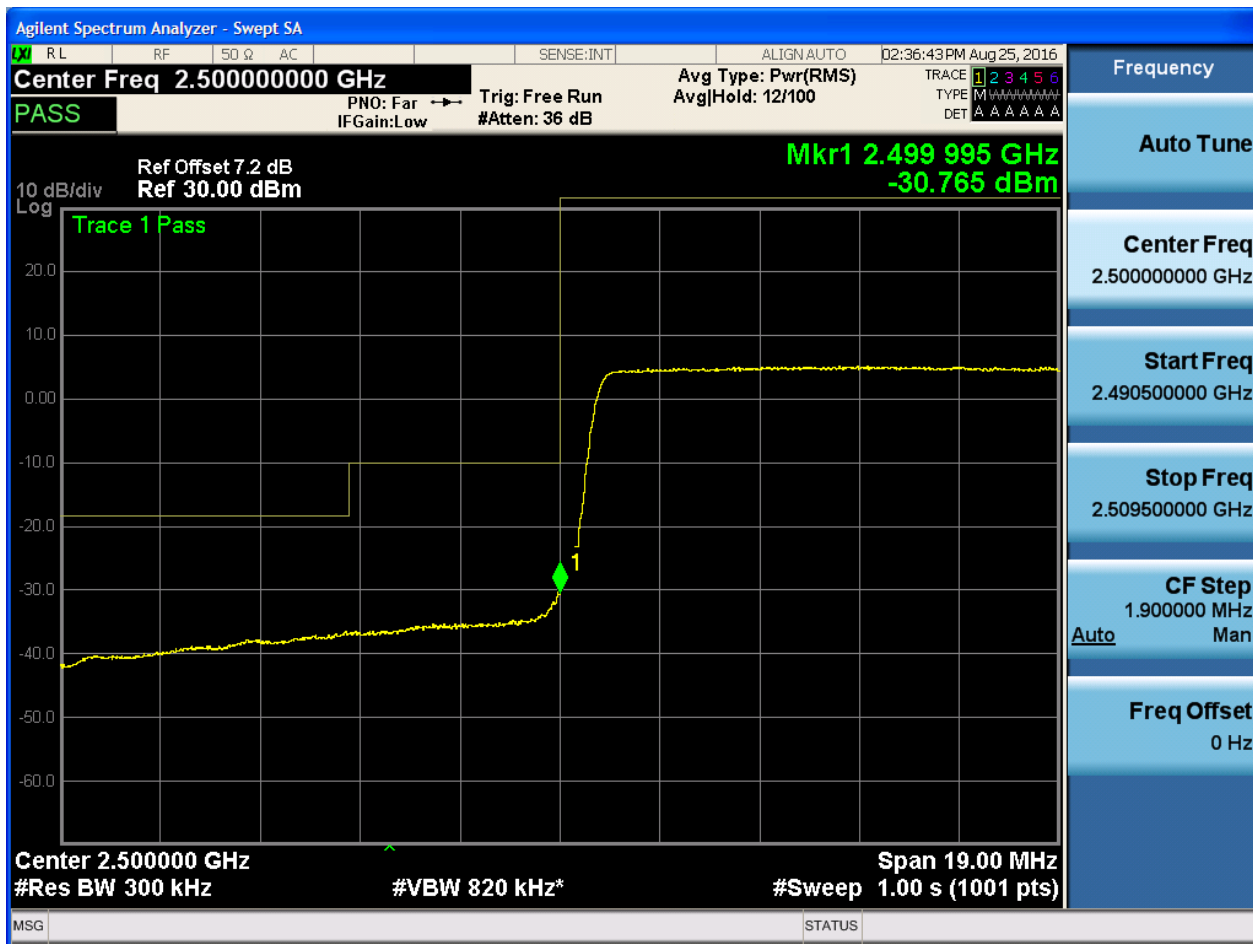


5.1.1.2.3.1.3 Test RB = RB36#18





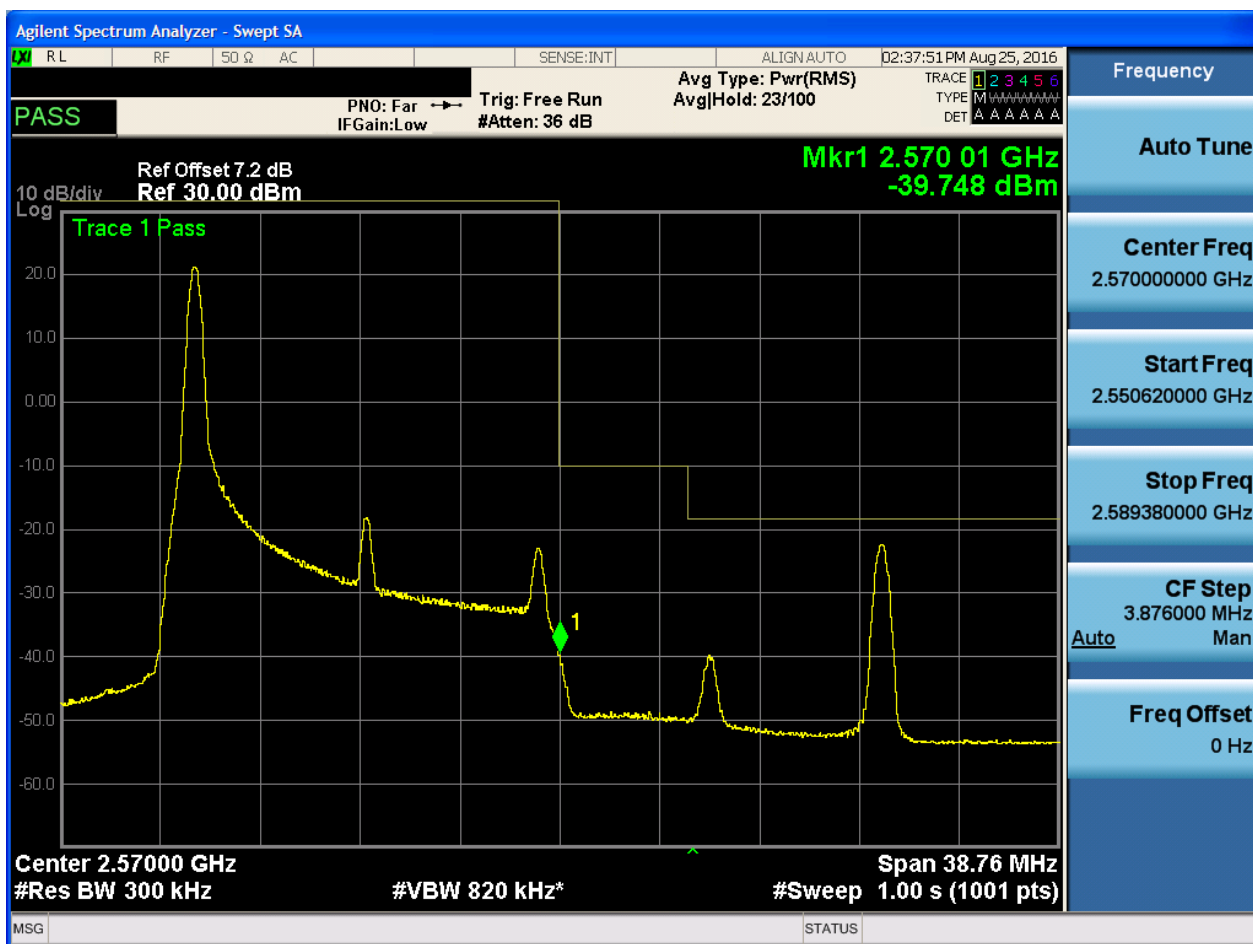
5.1.1.2.3.1.4 Test RB = RB75#0





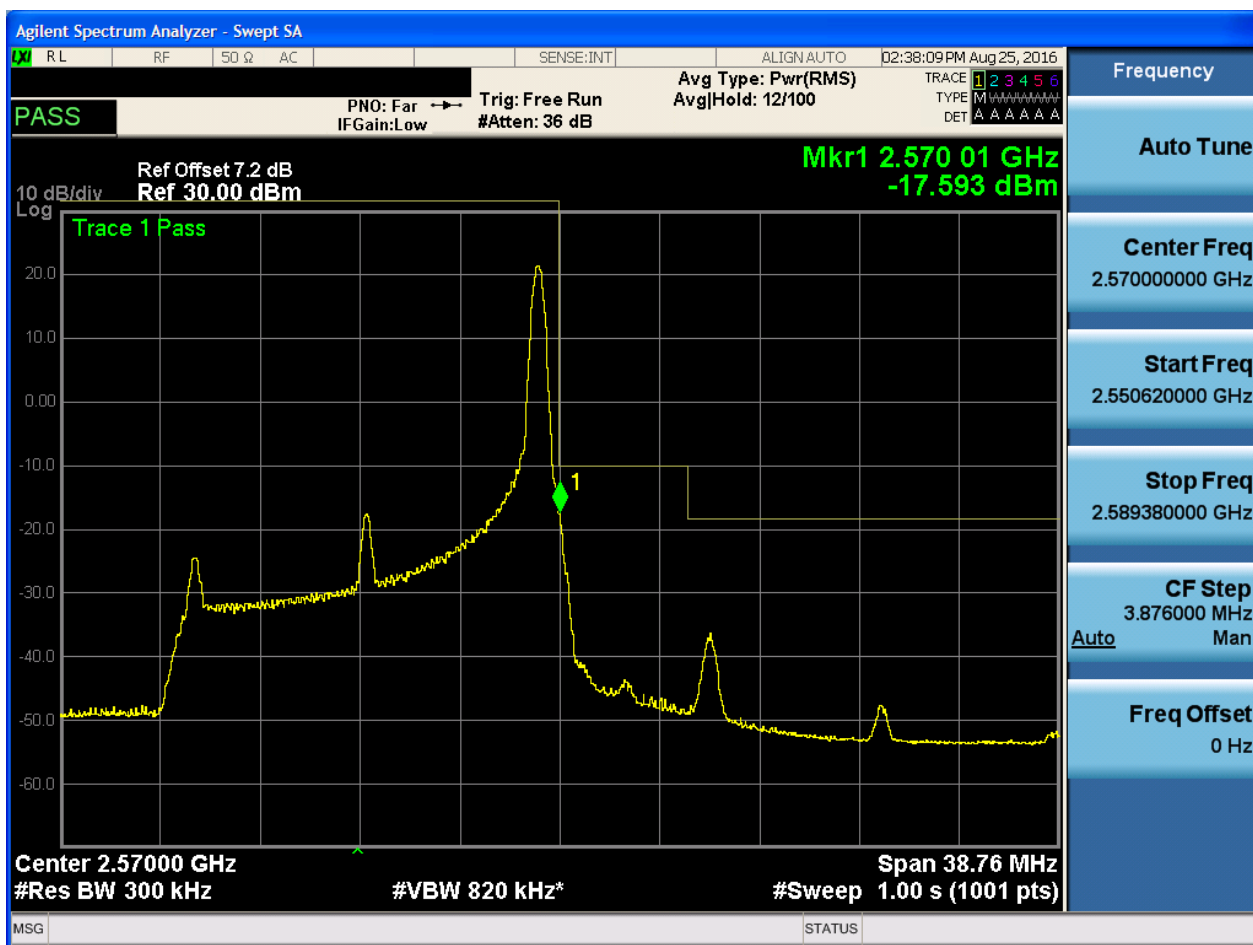
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



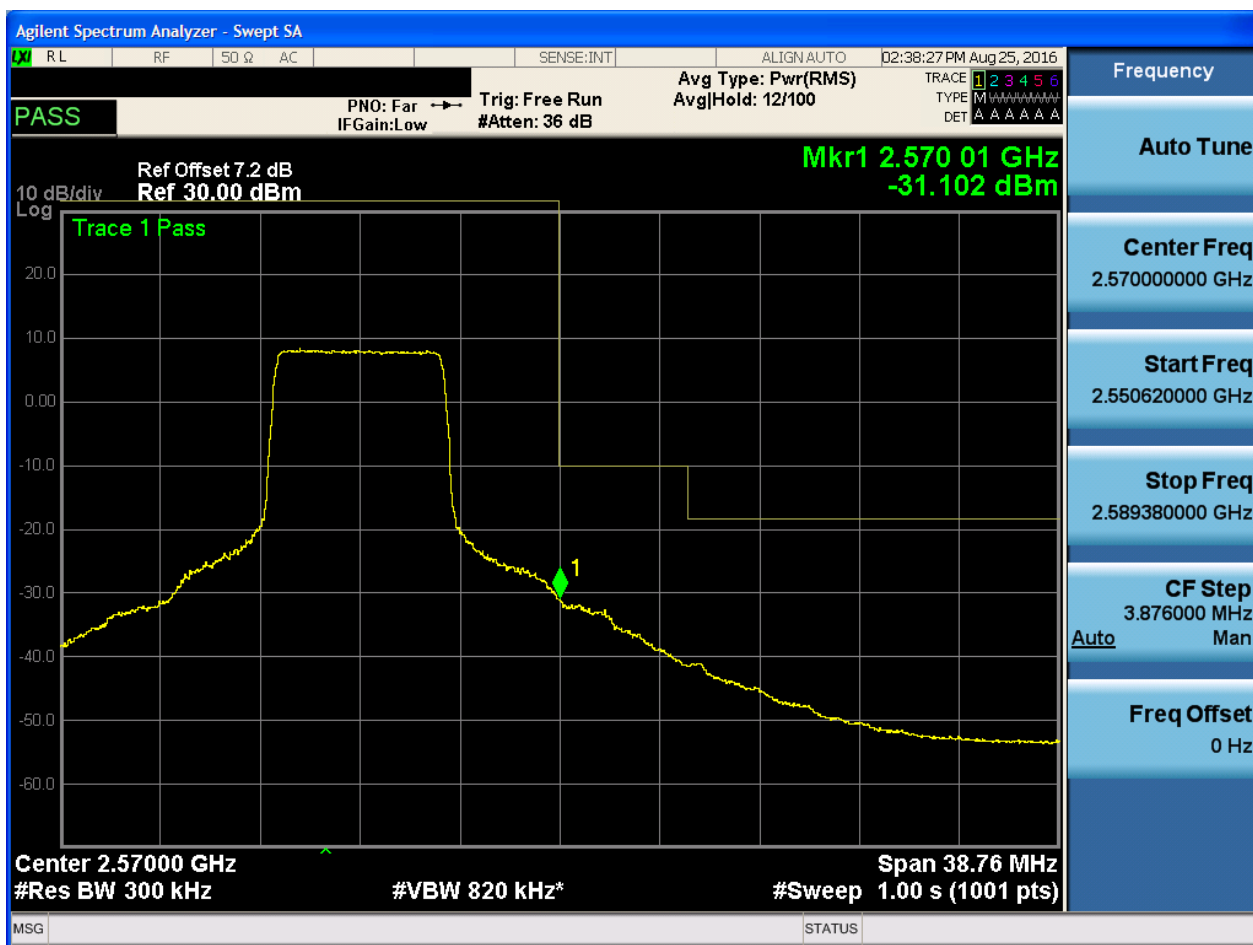


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





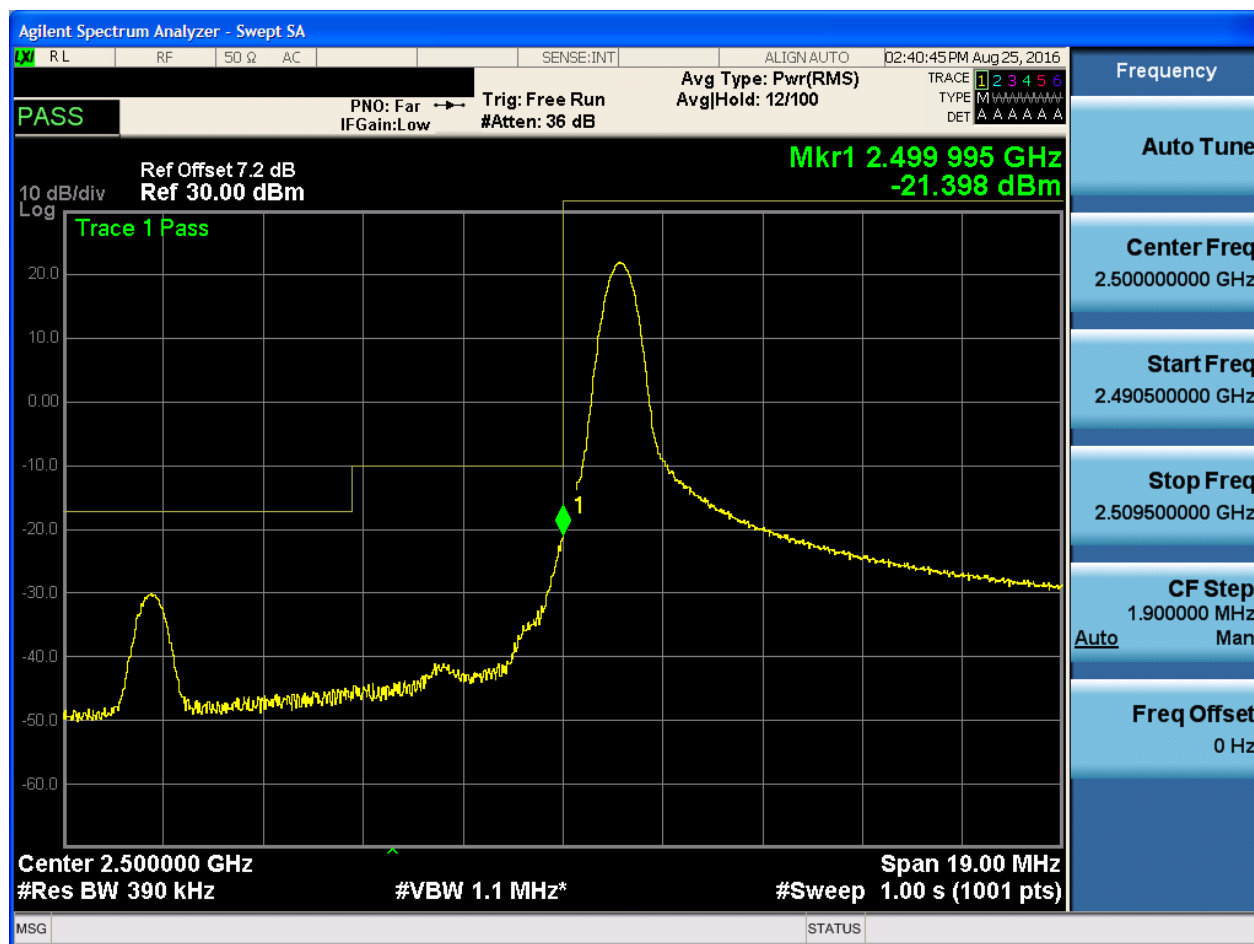
5.1.1.2.3.2.4 Test RB = RB75#0



5.1.1.2.4 Test Bandwidth = 20

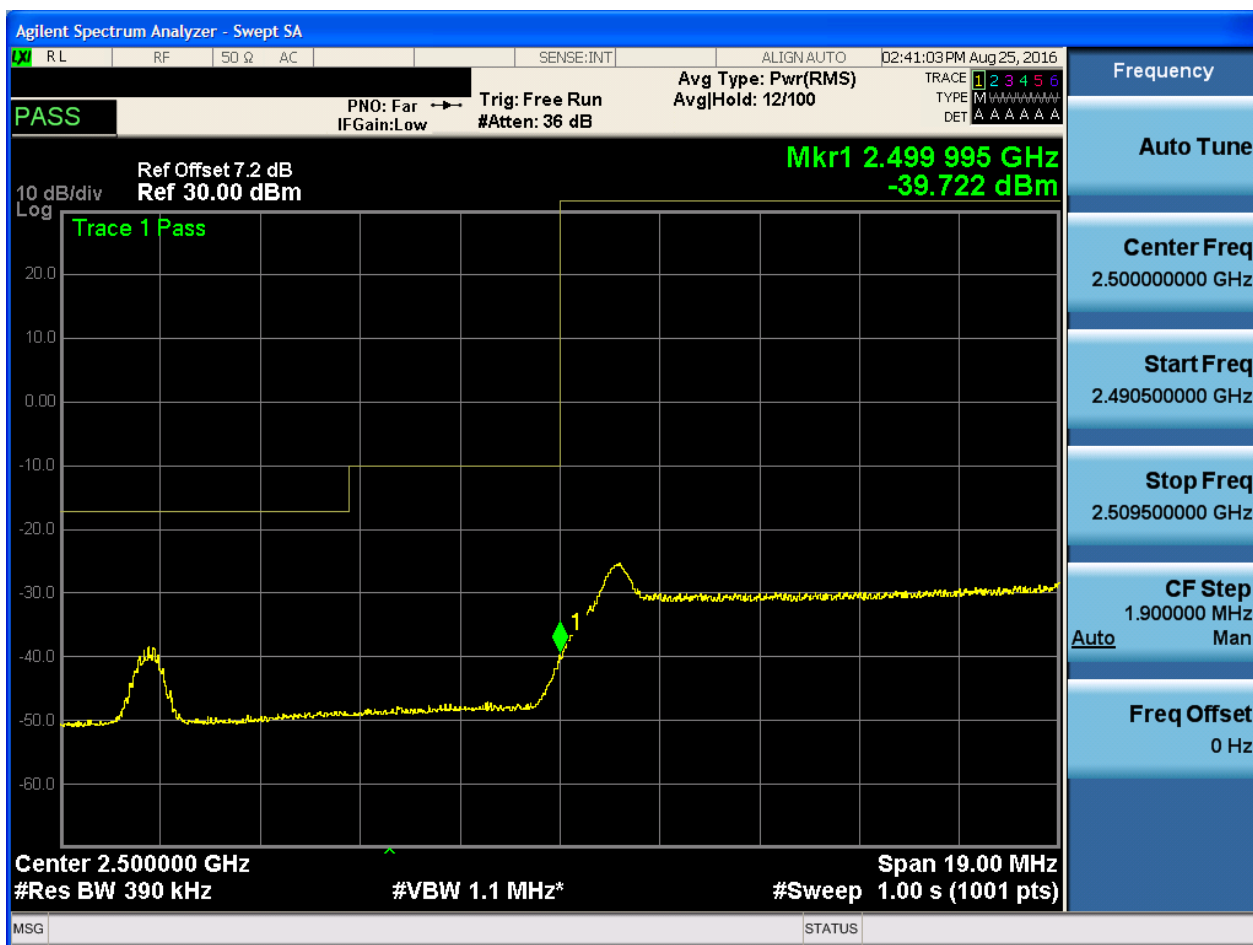
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



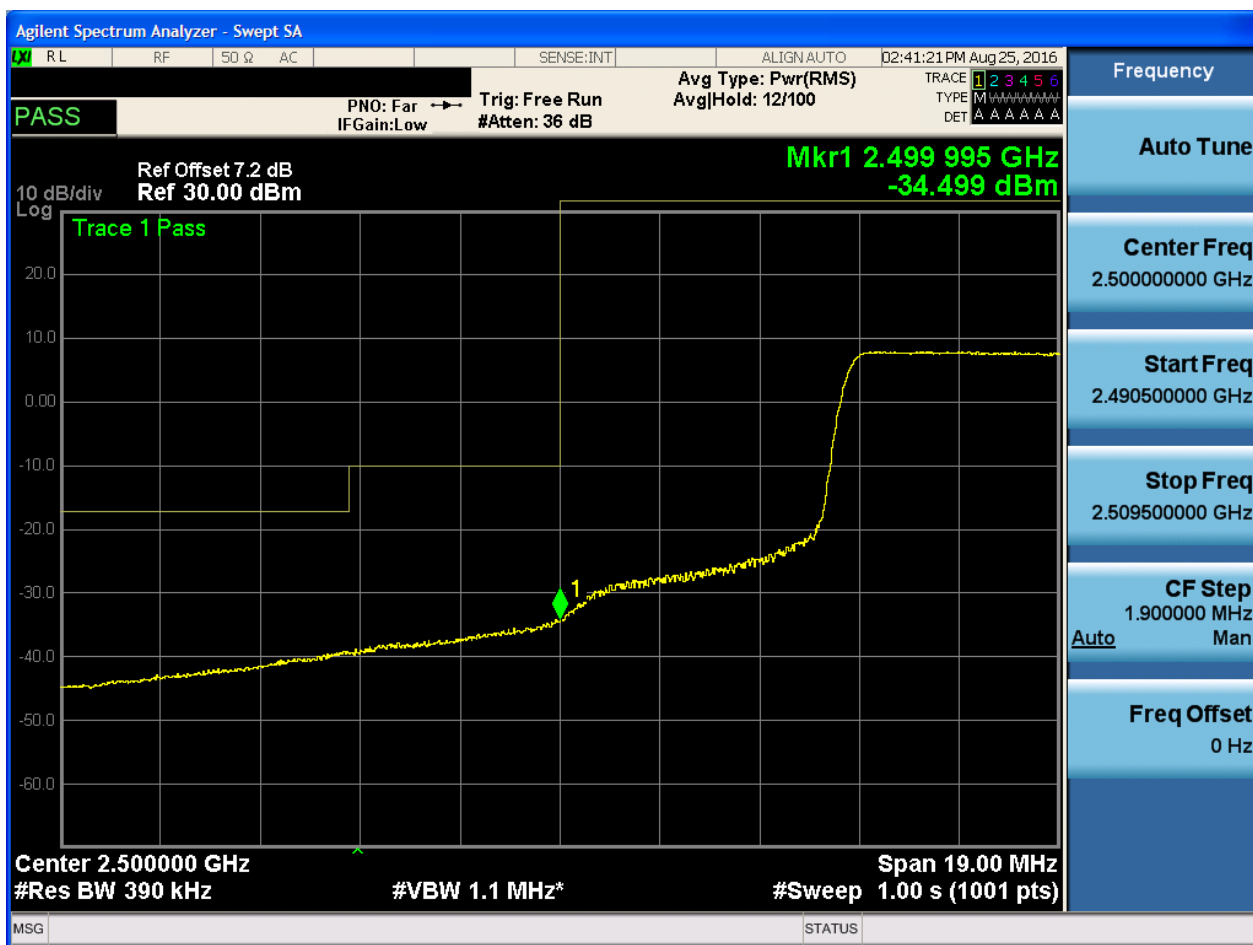


5.1.1.2.4.1.2 Test RB = RB1#99



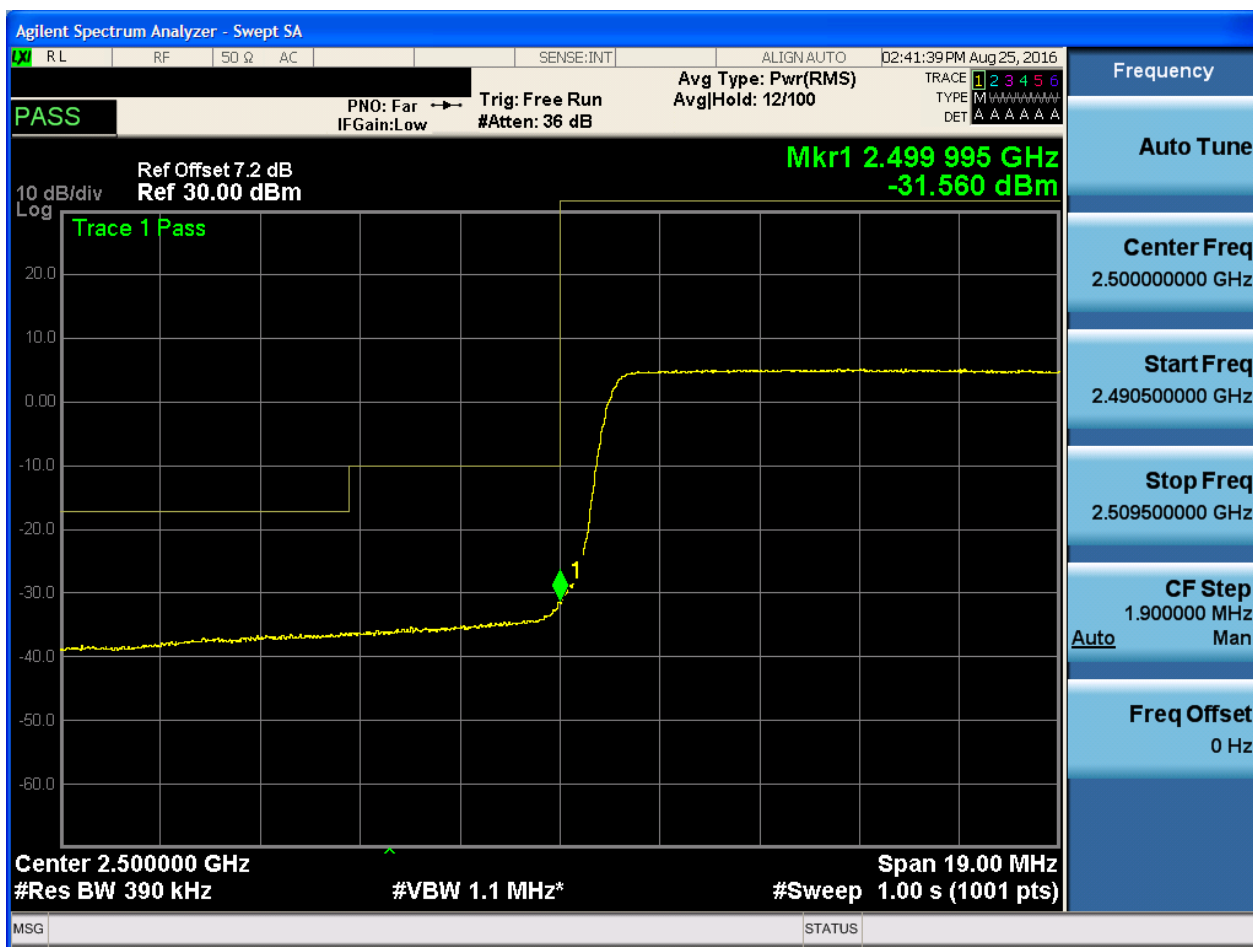


5.1.1.2.4.1.3 Test RB = RB50#25





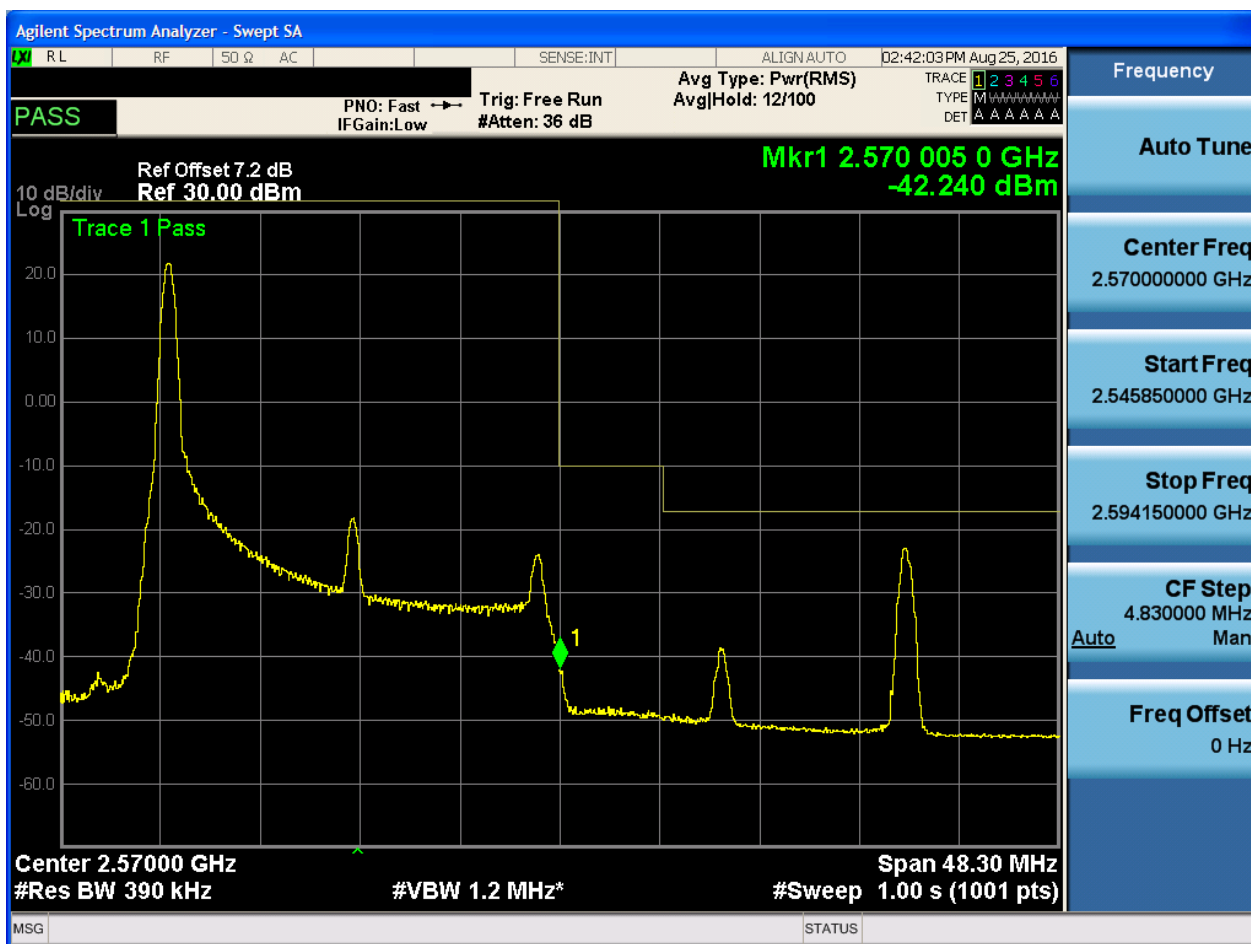
5.1.1.2.4.1.4 Test RB = RB100#0





5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:42:21 PM Aug 25, 2016

PASS PNO: Fast Trig: Free Run Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
IFGain: Low #Atten: 36 dB AvgHold: 12/100 TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7.2 dB Mkr1 2.570 005 0 GHz
Ref 30.00 dBm -20.856 dBm

10 dB/div Log

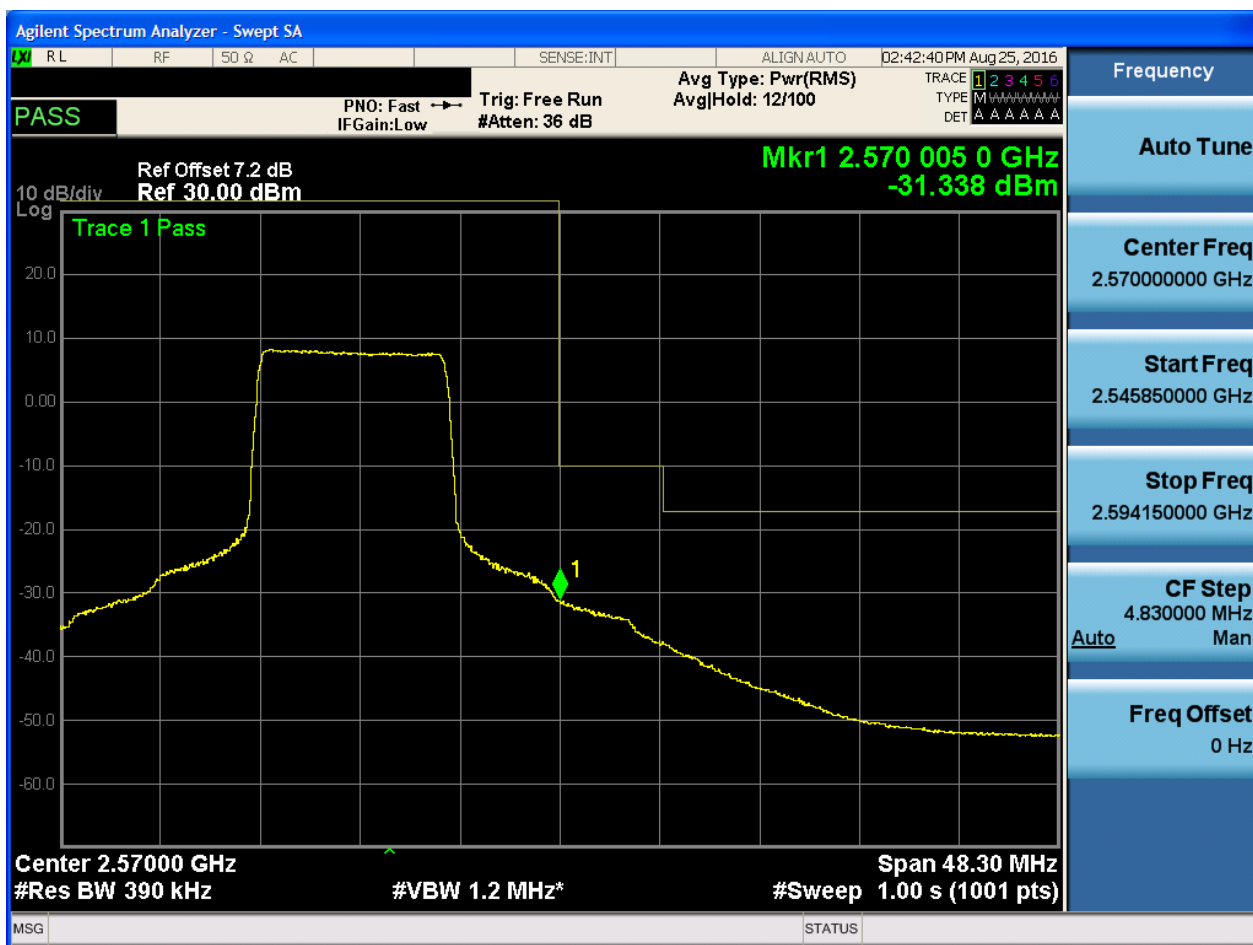
Trace 1 Pass

Center 2.57000 GHz Span 48.30 MHz
#Res BW 390 kHz #VBW 1.2 MHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

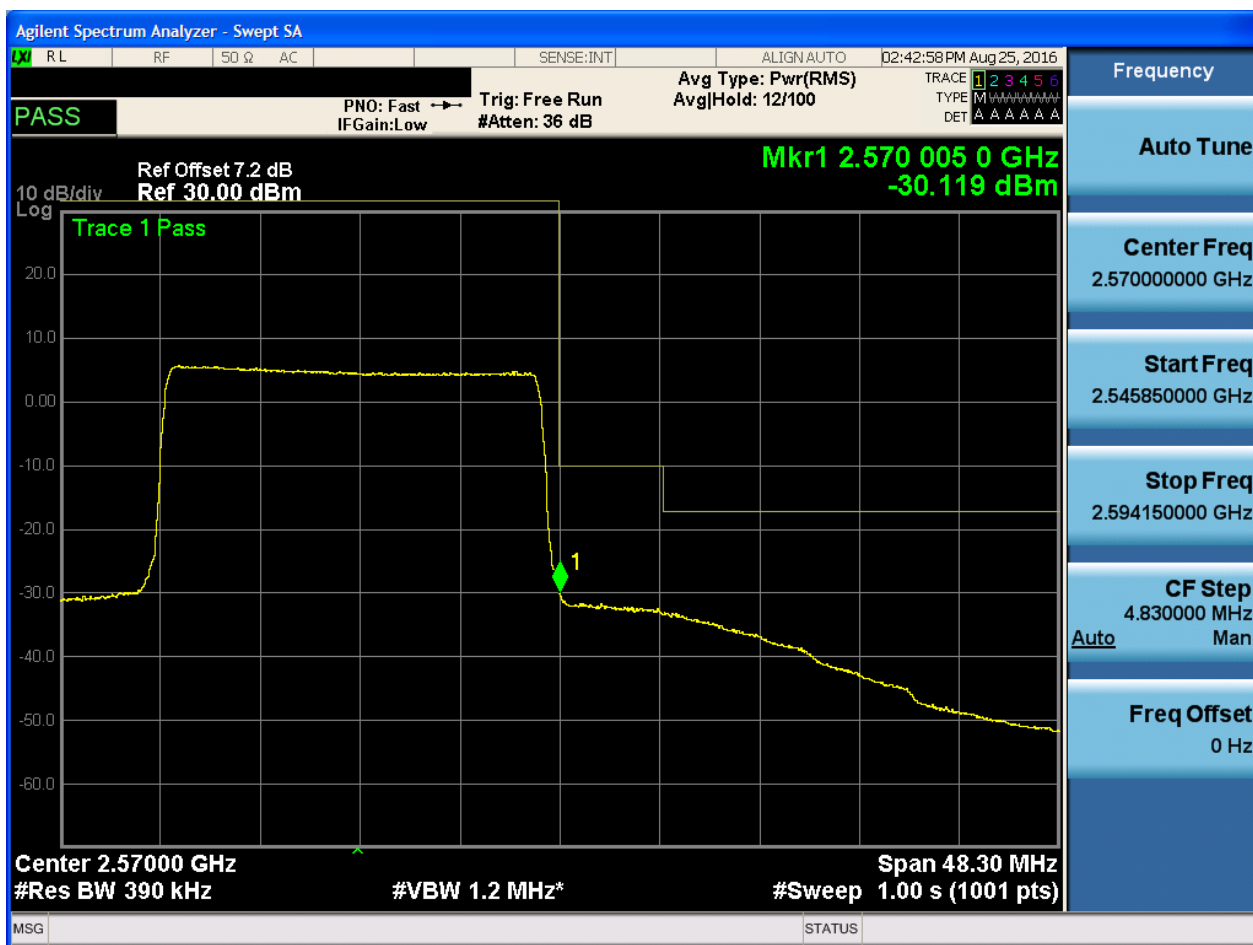


5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#0



6Appendix_F: Spurious Emission at Antenna Terminal

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

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

