



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	21.79	21.79	33	PASS
				RB1#13	22.33	22.33	33	PASS
				RB1#24	21.48	21.48	33	PASS
				RB12#0	21.28	21.28	33	PASS
				RB12#6	21.4	21.4	33	PASS
				RB12#13	21.32	21.32	33	PASS
				RB25#0	21.27	21.27	33	PASS
			MCH	RB1#0	21.42	21.42	33	PASS
				RB1#13	22.74	22.74	33	PASS
				RB1#24	21.8	21.8	33	PASS
				RB12#0	21.9	21.9	33	PASS
				RB12#6	21.79	21.79	33	PASS
				RB12#13	21.57	21.57	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.67	21.67	33	PASS
			HCH	RB1#0	22.08	22.08	33	PASS
				RB1#13	22.75	22.75	33	PASS
				RB1#24	22.23	22.23	33	PASS
				RB12#0	22.04	22.04	33	PASS
				RB12#6	22.04	22.04	33	PASS
				RB12#13	21.87	21.87	33	PASS
				RB25#0	21.94	21.94	33	PASS
		10	LCH	RB1#0	22.25	22.25	33	PASS
				RB1#25	22.26	22.26	33	PASS
				RB1#49	22.03	22.03	33	PASS
				RB25#0	21.32	21.32	33	PASS
				RB25#13	21.38	21.38	33	PASS
				RB25#25	21.6	21.6	33	PASS
				RB50#0	21.54	21.54	33	PASS
			MCH	RB1#0	22.54	22.54	33	PASS
				RB1#25	22.72	22.72	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.9	21.9	33	PASS
				RB25#0	21.81	21.81	33	PASS
				RB25#13	21.72	21.72	33	PASS
				RB25#25	21.58	21.58	33	PASS
				RB50#0	21.7	21.7	33	PASS
			HCH	RB1#0	22.58	22.58	33	PASS
				RB1#25	22.74	22.74	33	PASS
				RB1#49	22.28	22.28	33	PASS
				RB25#0	21.97	21.97	33	PASS
				RB25#13	21.93	21.93	33	PASS
				RB25#25	21.9	21.9	33	PASS
				RB50#0	22.06	22.06	33	PASS
		15	LCH	RB1#0	21.61	21.61	33	PASS
				RB1#38	22.53	22.53	33	PASS
				RB1#74	22.51	22.51	33	PASS
				RB36#0	21.36	21.36	33	PASS
				RB36#18	21.68	21.68	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	21.82	21.82	33	PASS
				RB75#0	21.45	21.45	33	PASS
			MCH	RB1#0	22.1	22.1	33	PASS
				RB1#38	22.66	22.66	33	PASS
				RB1#74	22.1	22.1	33	PASS
				RB36#0	21.83	21.83	33	PASS
				RB36#18	21.85	21.85	33	PASS
				RB36#39	21.57	21.57	33	PASS
				RB75#0	21.66	21.66	33	PASS
			HCH	RB1#0	22.15	22.15	33	PASS
				RB1#38	22.8	22.8	33	PASS
				RB1#74	22.42	22.42	33	PASS
				RB36#0	21.86	21.86	33	PASS
				RB36#18	21.95	21.95	33	PASS
				RB36#39	21.91	21.91	33	PASS
				RB75#0	22.3	22.3	33	PASS
		20	LCH	RB1#0	22.01	22.01	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	22.75	22.75	33	PASS
				RB1#99	22.61	22.61	33	PASS
				RB50#0	21.56	21.56	33	PASS
				RB50#25	21.72	21.72	33	PASS
				RB50#50	21.72	21.72	33	PASS
				RB100#0	21.63	21.63	33	PASS
			MCH	RB1#0	22.33	22.33	33	PASS
				RB1#50	22.64	22.64	33	PASS
				RB1#99	21.98	21.98	33	PASS
				RB50#0	21.67	21.67	33	PASS
				RB50#25	21.82	21.82	33	PASS
				RB50#50	21.95	21.95	33	PASS
				RB100#0	21.9	21.9	33	PASS
			HCH	RB1#0	22.2	22.2	33	PASS
				RB1#50	22.88	22.88	33	PASS
				RB1#99	22.42	22.42	33	PASS
				RB50#0	22.19	22.19	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	22.44	22.44	33	PASS
				RB50#50	21.96	21.96	33	PASS
				RB100#0	22.49	22.49	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.14	21.14	33	PASS
				RB1#13	21.58	21.58	33	PASS
				RB1#24	20.78	20.78	33	PASS
				RB12#0	20.52	20.52	33	PASS
				RB12#6	20.59	20.59	33	PASS
				RB12#13	20.33	20.33	33	PASS
				RB25#0	20.43	20.43	33	PASS
			MCH	RB1#0	21.31	21.31	33	PASS
				RB1#13	21.98	21.98	33	PASS
				RB1#24	21.12	21.12	33	PASS
				RB12#0	20.93	20.93	33	PASS
				RB12#6	20.94	20.94	33	PASS
				RB12#13	20.74	20.74	33	PASS
				RB25#0	20.79	20.79	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.43	22.43	33	PASS
				RB1#13	22.38	22.38	33	PASS
				RB1#24	21.82	21.82	33	PASS
				RB12#0	21.31	21.31	33	PASS
				RB12#6	21.26	21.26	33	PASS
				RB12#13	21.15	21.15	33	PASS
				RB25#0	21.21	21.21	33	PASS
		10	LCH	RB1#0	21.23	21.23	33	PASS
				RB1#25	21.57	21.57	33	PASS
				RB1#49	21.28	21.28	33	PASS
				RB25#0	20.41	20.41	33	PASS
				RB25#13	20.33	20.33	33	PASS
				RB25#25	20.79	20.79	33	PASS
				RB50#0	20.66	20.66	33	PASS
			MCH	RB1#0	21.67	21.67	33	PASS
				RB1#25	21.87	21.87	33	PASS
				RB1#49	20.94	20.94	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.93	20.93	33	PASS
				RB25#13	20.87	20.87	33	PASS
				RB25#25	20.79	20.79	33	PASS
				RB50#0	20.85	20.85	33	PASS
			HCH	RB1#0	21.95	21.95	33	PASS
				RB1#25	22.31	22.31	33	PASS
				RB1#49	21.66	21.66	33	PASS
				RB25#0	21.28	21.28	33	PASS
				RB25#13	21.28	21.28	33	PASS
				RB25#25	21.28	21.28	33	PASS
				RB50#0	21.47	21.47	33	PASS
		15	LCH	RB1#0	21.04	21.04	33	PASS
				RB1#38	21.99	21.99	33	PASS
				RB1#74	22.02	22.02	33	PASS
				RB36#0	20.66	20.66	33	PASS
				RB36#18	20.95	20.95	33	PASS
				RB36#39	21.16	21.16	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.75	20.75	33	PASS
			MCH	RB1#0	21.7	21.7	33	PASS
				RB1#38	21.99	21.99	33	PASS
				RB1#74	21.43	21.43	33	PASS
				RB36#0	20.98	20.98	33	PASS
				RB36#18	20.97	20.97	33	PASS
				RB36#39	20.75	20.75	33	PASS
				RB75#0	20.89	20.89	33	PASS
			HCH	RB1#0	21.54	21.54	33	PASS
				RB1#38	22.38	22.38	33	PASS
				RB1#74	21.94	21.94	33	PASS
				RB36#0	21.08	21.08	33	PASS
				RB36#18	21.17	21.17	33	PASS
				RB36#39	21.31	21.31	33	PASS
				RB75#0	21.61	21.61	33	PASS
		20	LCH	RB1#0	21.46	21.46	33	PASS
				RB1#50	22.32	22.32	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.21	22.21	33	PASS
				RB50#0	20.84	20.84	33	PASS
				RB50#25	20.99	20.99	33	PASS
				RB50#50	21.05	21.05	33	PASS
				RB100#0	20.92	20.92	33	PASS
			MCH	RB1#0	21.7	21.7	33	PASS
				RB1#50	21.8	21.8	33	PASS
				RB1#99	21.23	21.23	33	PASS
				RB50#0	20.89	20.89	33	PASS
				RB50#25	20.98	20.98	33	PASS
				RB50#50	21.16	21.16	33	PASS
				RB100#0	21.04	21.04	33	PASS
			HCH	RB1#0	21.79	21.79	33	PASS
				RB1#50	22.51	22.51	33	PASS
				RB1#99	22.17	22.17	33	PASS
				RB50#0	21.51	21.51	33	PASS
				RB50#25	21.66	21.66	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.3	21.3	33	PASS
				RB100#0	21.71	21.71	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,

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

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

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	4.59	13	PASS
				RB1#13	4.03	13	PASS
				RB1#24	4.71	13	PASS
				RB12#0	5.44	13	PASS
				RB12#6	5.24	13	PASS
				RB12#13	5.49	13	PASS
				RB25#0	5.54	13	PASS
			MCH	RB1#0	5.19	13	PASS
				RB1#13	4.08	13	PASS
				RB1#24	4.68	13	PASS
				RB12#0	5.56	13	PASS
				RB12#6	5.15	13	PASS
				RB12#13	5.29	13	PASS
				RB25#0	5.67	13	PASS
			HCH	RB1#0	5.36	13	PASS
				RB1#13	4.26	13	PASS
				RB1#24	4.49	13	PASS
				RB12#0	5.45	13	PASS
				RB12#6	5.36	13	PASS
				RB12#13	5.42	13	PASS
				RB25#0	5.68	13	PASS
		10	LCH	RB1#0	4.34	13	PASS
				RB1#25	4.05	13	PASS
				RB1#49	4.5	13	PASS
				RB25#0	5.28	13	PASS
				RB25#13	5.21	13	PASS
				RB25#25	5.17	13	PASS
				RB50#0	5.78	13	PASS
			MCH	RB1#0	4.36	13	PASS
				RB1#25	3.93	13	PASS
				RB1#49	4.21	13	PASS
				RB25#0	5.57	13	PASS
				RB25#13	5.23	13	PASS
				RB25#25	5.32	13	PASS
				RB50#0	5.61	13	PASS
			HCH	RB1#0	4.51	13	PASS
				RB1#25	4.2	13	PASS
				RB1#49	4.32	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.42	13	PASS
				RB25#13	5.28	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	5.72	13	PASS
		15	LCH	RB1#0	4.62	13	PASS
				RB1#38	3.81	13	PASS
				RB1#74	4.32	13	PASS
				RB36#0	5.35	13	PASS
				RB36#18	5.14	13	PASS
				RB36#39	5.43	13	PASS
				RB75#0	5.83	13	PASS
			MCH	RB1#0	5	13	PASS
				RB1#38	4.17	13	PASS
				RB1#74	3.97	13	PASS
				RB36#0	5.83	13	PASS
				RB36#18	5.45	13	PASS
				RB36#39	5.38	13	PASS
				RB75#0	5.88	13	PASS
			HCH	RB1#0	4.34	13	PASS
				RB1#38	4.26	13	PASS
				RB1#74	4.36	13	PASS
				RB36#0	5.75	13	PASS
				RB36#18	5.67	13	PASS
				RB36#39	5.74	13	PASS
				RB75#0	5.94	13	PASS
		20	LCH	RB1#0	4.59	13	PASS
				RB1#50	3.99	13	PASS
				RB1#99	4.86	13	PASS
				RB50#0	5.21	13	PASS
				RB50#25	5.29	13	PASS
				RB50#50	5.7	13	PASS
				RB100#0	5.8	13	PASS
			MCH	RB1#0	5.09	13	PASS
				RB1#50	4.16	13	PASS
				RB1#99	3.97	13	PASS
				RB50#0	5.96	13	PASS
				RB50#25	5.28	13	PASS
				RB50#50	5.08	13	PASS
				RB100#0	5.85	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2		HCH	RB1#0	4.1	13	PASS
				RB1#50	4.36	13	PASS
				RB1#99	4.72	13	PASS
				RB50#0	4.83	13	PASS
				RB50#25	5.13	13	PASS
				RB50#50	5.37	13	PASS
				RB100#0	5.67	13	PASS
		5	LCH	RB1#0	5.46	13	PASS
				RB1#13	4.82	13	PASS
				RB1#24	5.42	13	PASS
				RB12#0	6.11	13	PASS
				RB12#6	6.06	13	PASS
				RB12#13	6.25	13	PASS
				RB25#0	6.41	13	PASS
			MCH	RB1#0	5.23	13	PASS
				RB1#13	4.45	13	PASS
				RB1#24	4.95	13	PASS
				RB12#0	6.04	13	PASS
				RB12#6	5.93	13	PASS
				RB12#13	5.95	13	PASS
				RB25#0	6.53	13	PASS
			HCH	RB1#0	5.36	13	PASS
				RB1#13	4.7	13	PASS
				RB1#24	5	13	PASS
				RB12#0	6.02	13	PASS
				RB12#6	5.86	13	PASS
				RB12#13	5.96	13	PASS
				RB25#0	6.47	13	PASS
		10	LCH	RB1#0	5.01	13	PASS
				RB1#25	4.62	13	PASS
				RB1#49	4.89	13	PASS
				RB25#0	6.15	13	PASS
				RB25#13	6	13	PASS
				RB25#25	5.98	13	PASS
				RB50#0	6.45	13	PASS
			MCH	RB1#0	5.4	13	PASS
				RB1#25	4.73	13	PASS
				RB1#49	5.1	13	PASS
				RB25#0	6.35	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	6.16	13	PASS
				RB25#25	6.22	13	PASS
				RB50#0	6.54	13	PASS
			HCH	RB1#0	5.12	13	PASS
				RB1#25	4.7	13	PASS
				RB1#49	5.2	13	PASS
				RB25#0	6.3	13	PASS
				RB25#13	6.31	13	PASS
				RB25#25	6.16	13	PASS
				RB50#0	6.61	13	PASS
		15	LCH	RB1#0	5.62	13	PASS
				RB1#38	4.69	13	PASS
				RB1#74	5.08	13	PASS
				RB36#0	6.19	13	PASS
				RB36#18	5.86	13	PASS
				RB36#39	6.09	13	PASS
				RB75#0	6.73	13	PASS
			MCH	RB1#0	5.84	13	PASS
				RB1#38	4.8	13	PASS
				RB1#74	4.58	13	PASS
				RB36#0	6.16	13	PASS
				RB36#18	6.12	13	PASS
				RB36#39	6.2	13	PASS
				RB75#0	6.84	13	PASS
			HCH	RB1#0	4.96	13	PASS
				RB1#38	4.74	13	PASS
				RB1#74	5.03	13	PASS
				RB36#0	6.14	13	PASS
				RB36#18	5.97	13	PASS
				RB36#39	6.37	13	PASS
				RB75#0	6.71	13	PASS
		20	LCH	RB1#0	5.09	13	PASS
				RB1#50	4.44	13	PASS
				RB1#99	5.35	13	PASS
				RB50#0	6.02	13	PASS
				RB50#25	6.01	13	PASS
				RB50#50	6.25	13	PASS
				RB100#0	6.59	13	PASS
			MCH	RB1#0	5.56	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.72	13	PASS
				RB1#99	4.68	13	PASS
				RB50#0	6.18	13	PASS
				RB50#25	6.1	13	PASS
				RB50#50	5.83	13	PASS
				RB100#0	6.77	13	PASS
			HCH	RB1#0	4.69	13	PASS
				RB1#50	5.06	13	PASS
				RB1#99	5.54	13	PASS
				RB50#0	5.64	13	PASS
				RB50#25	5.71	13	PASS
				RB50#50	6.3	13	PASS
				RB100#0	6.26	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

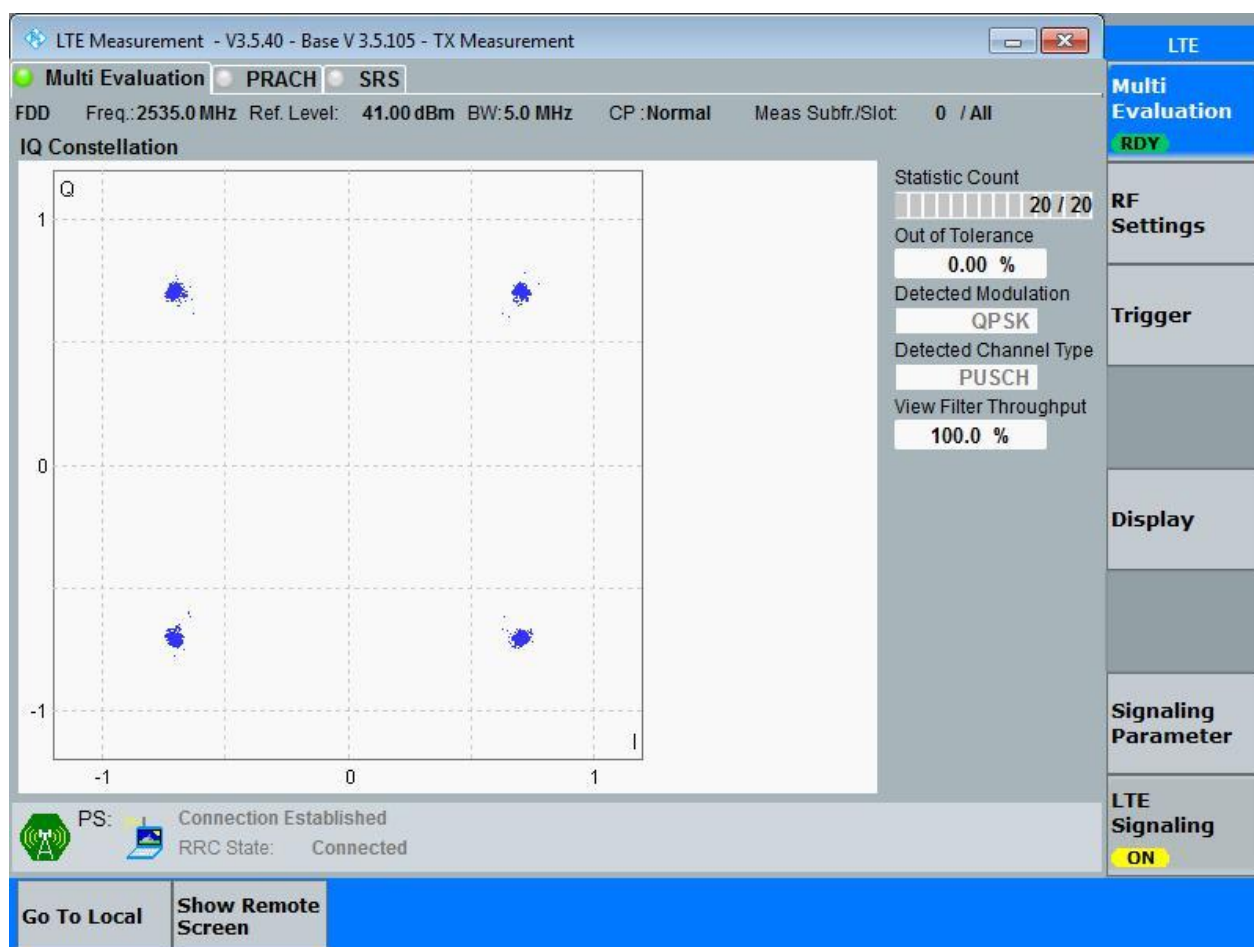
3.1.1 Test Band = BAND7

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

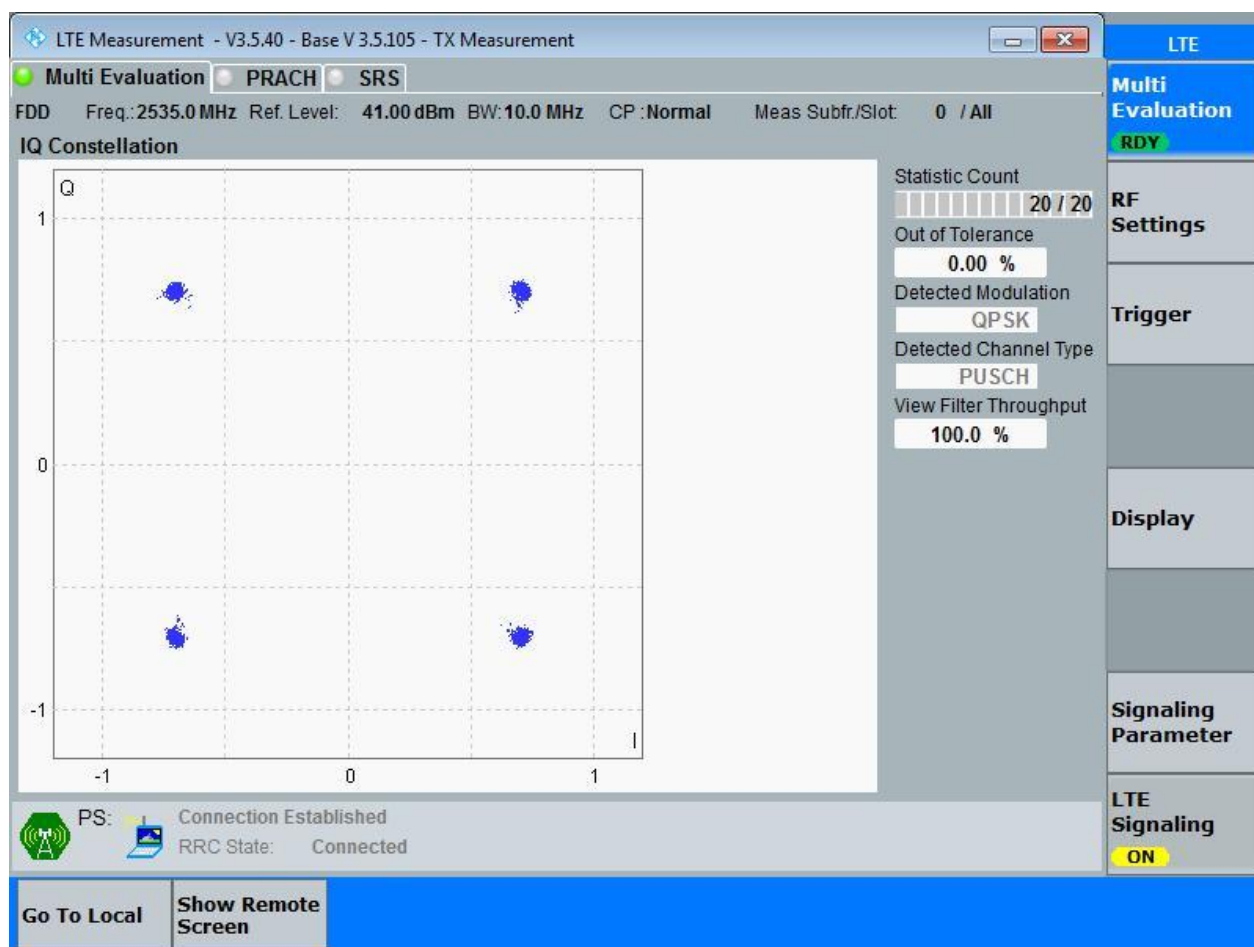
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

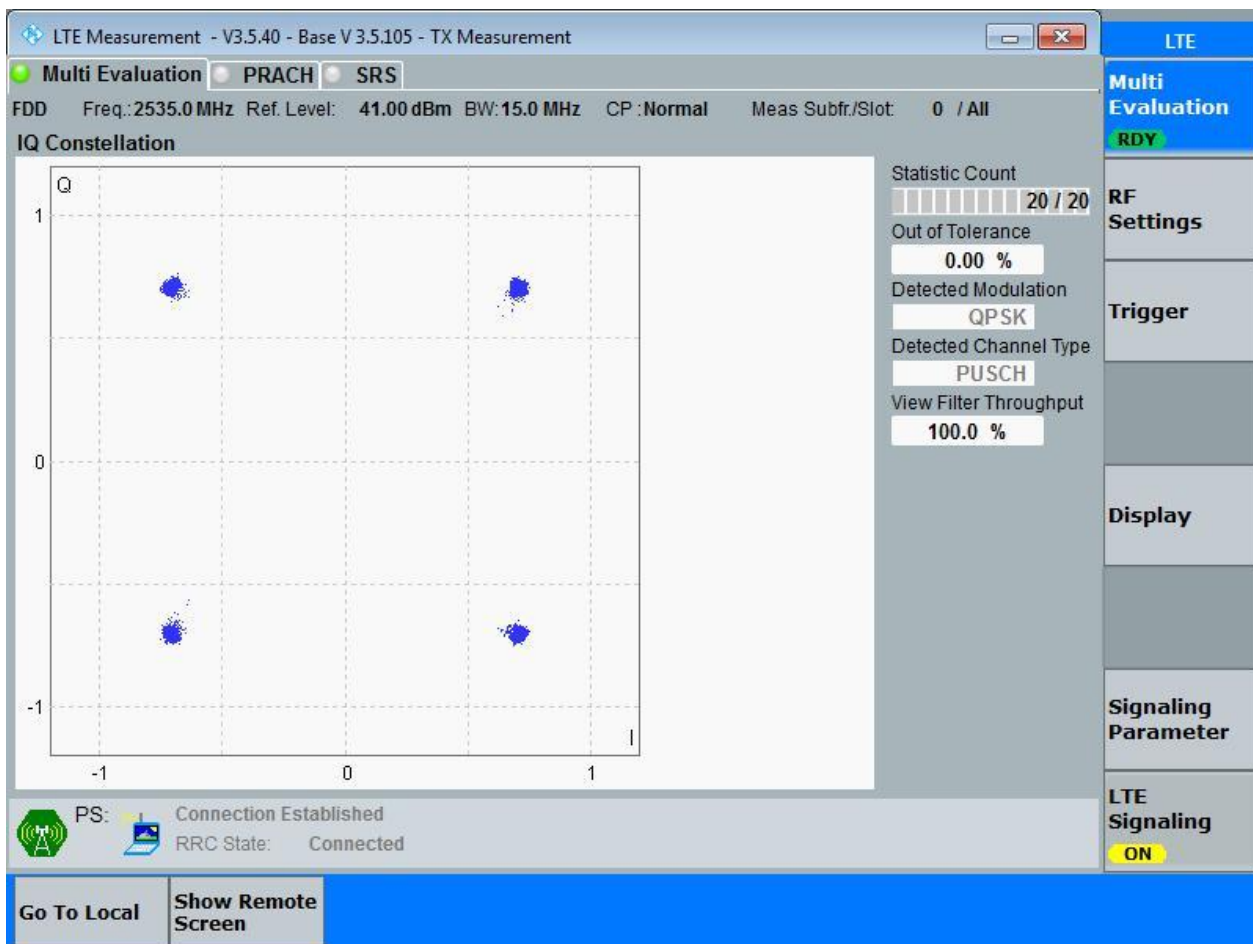
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

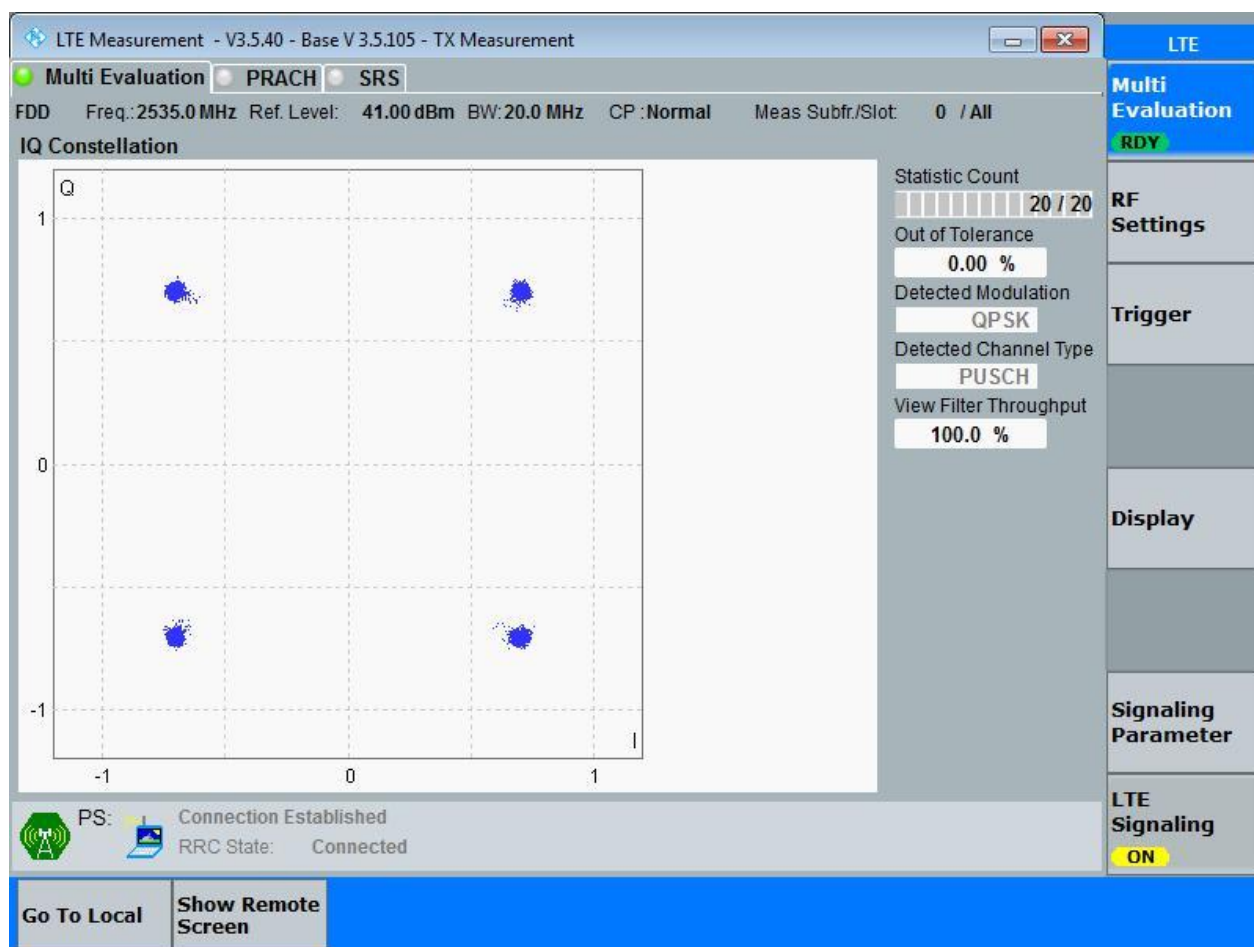
3.1.1.1.3.1.1 Test RB = RB75#0



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

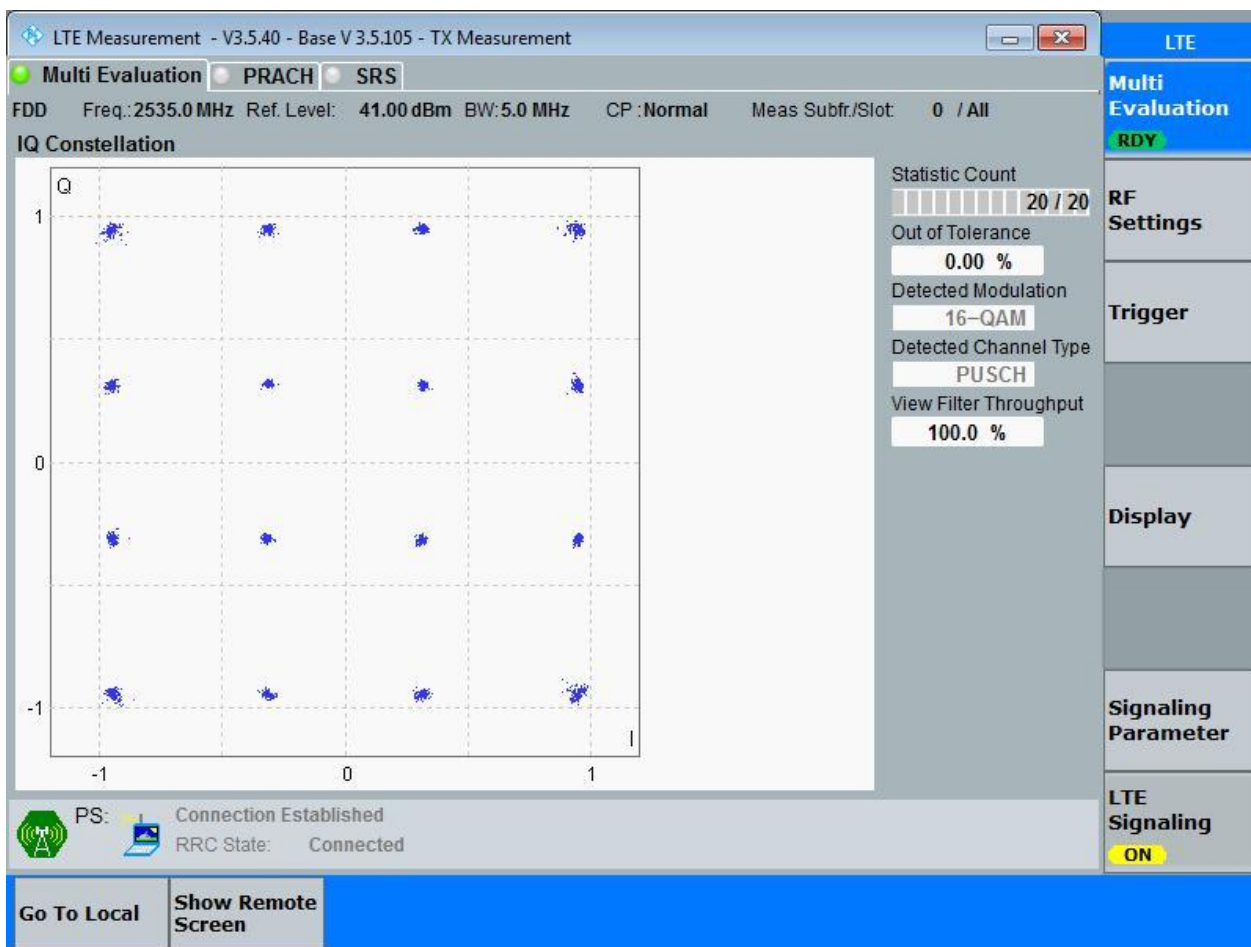


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

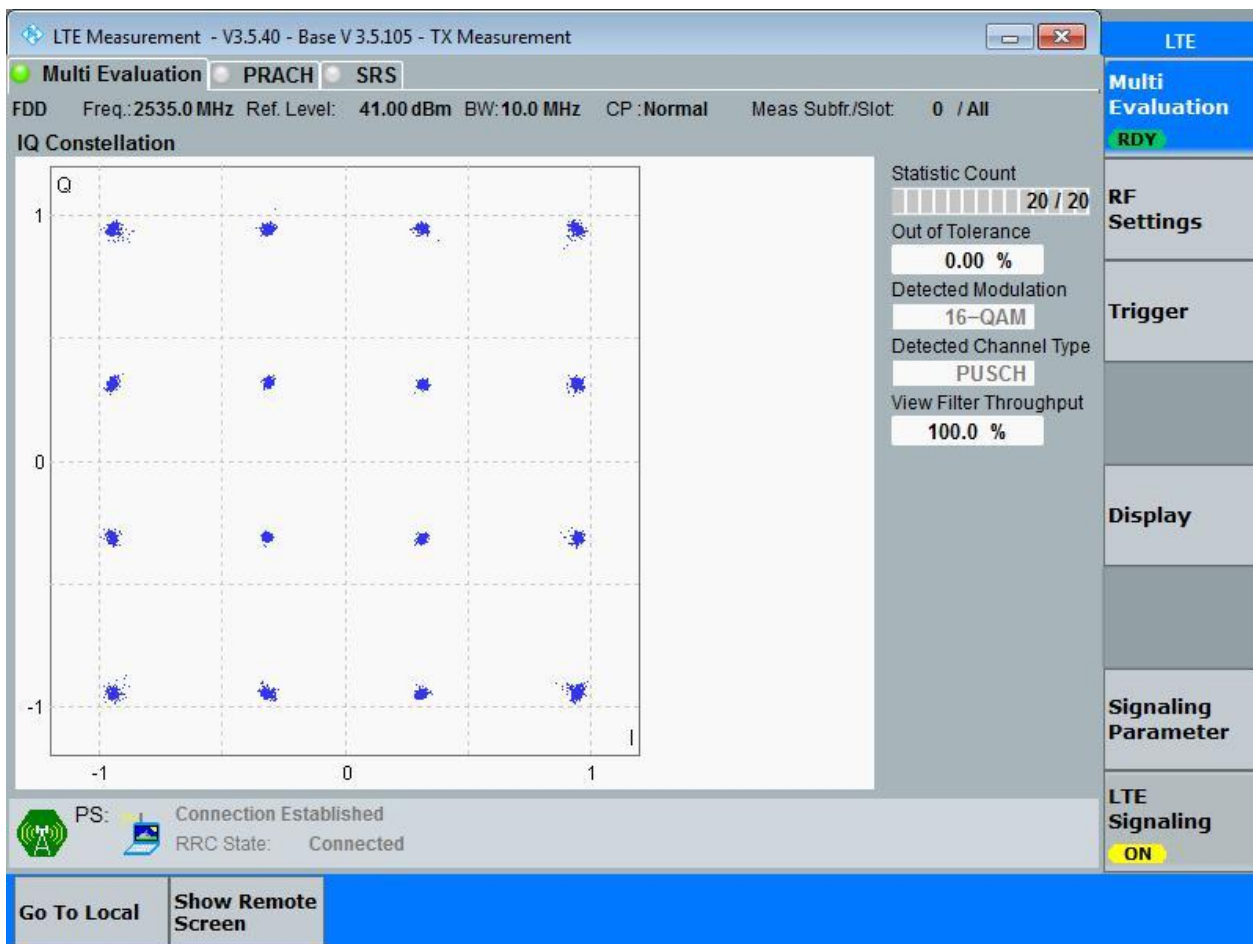
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

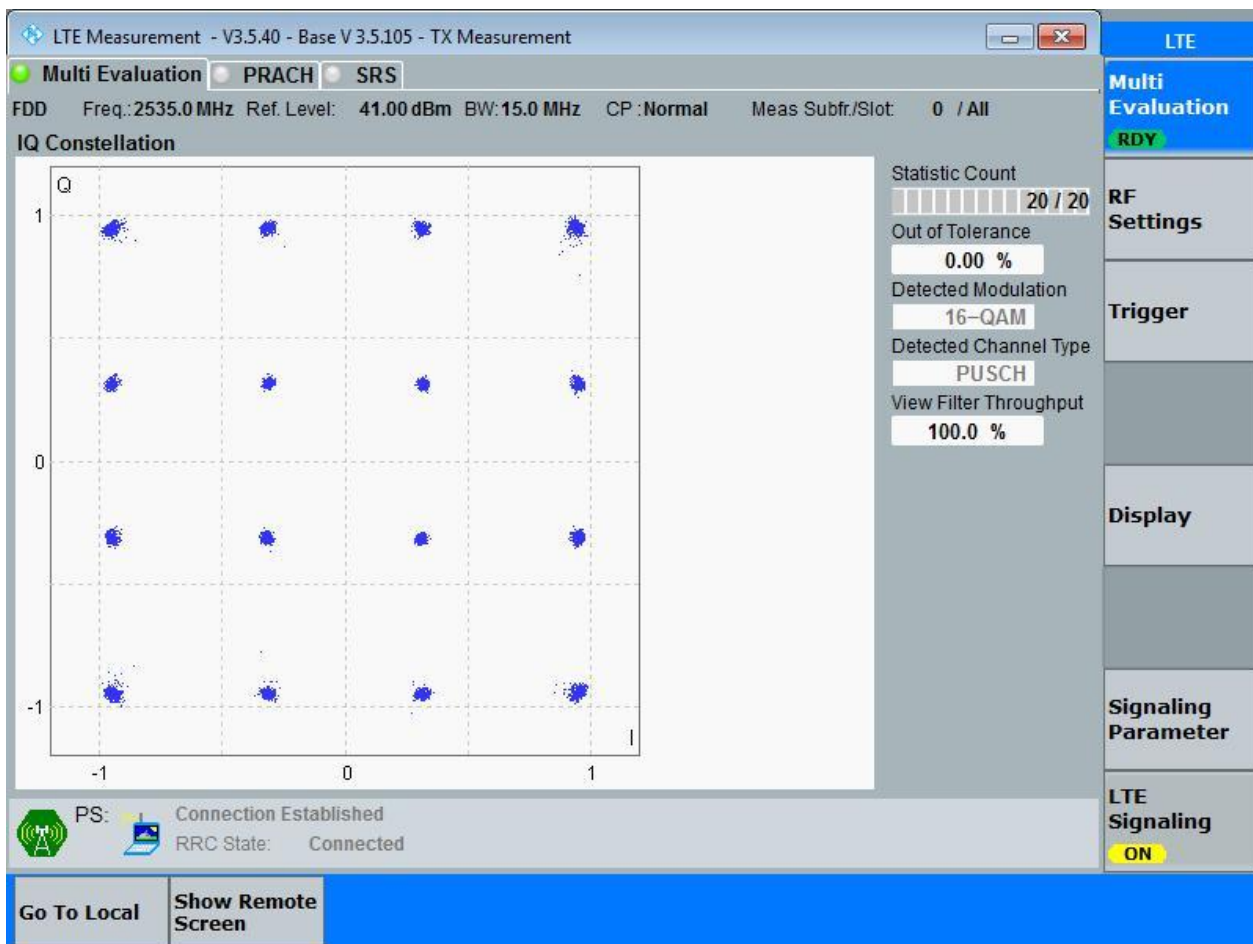
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

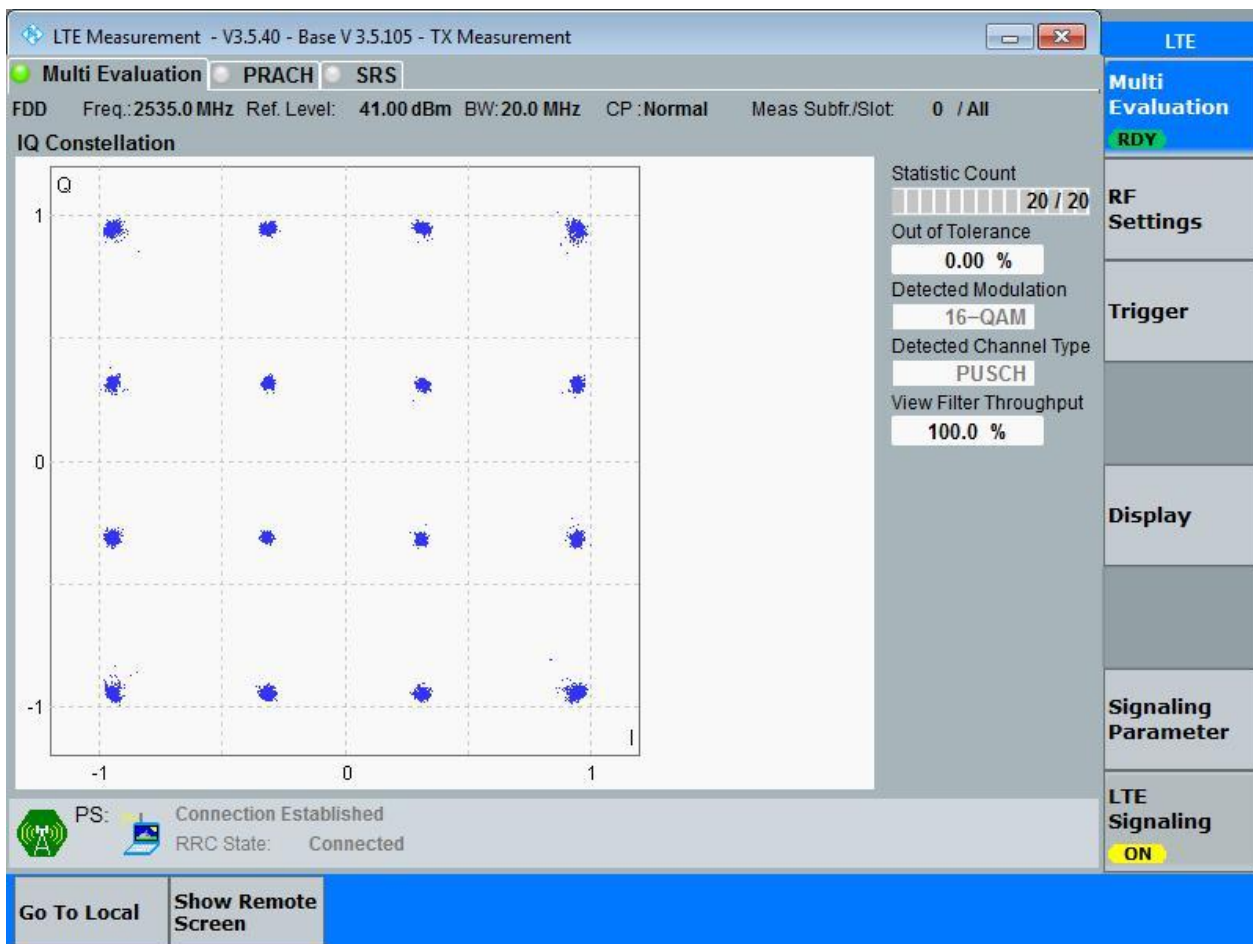
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.49	4.89	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.99	9.64	Pass
			MCH	RB50#0	8.99	9.61	Pass
			HCH	RB50#0	8.99	9.60	Pass
		15	LCH	RB75#0	13.45	14.30	Pass
			MCH	RB75#0	13.47	14.45	Pass
			HCH	RB75#0	13.47	14.35	Pass
		20	LCH	RB100#0	17.91	19.05	Pass
			MCH	RB100#0	17.98	19.10	Pass
			HCH	RB100#0	17.94	19.09	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.86	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.51	4.87	Pass
		10	LCH	RB50#0	8.98	9.59	Pass
			MCH	RB50#0	8.99	9.62	Pass
			HCH	RB50#0	9.00	9.69	Pass
		15	LCH	RB75#0	13.44	14.41	Pass
			MCH	RB75#0	13.48	14.45	Pass
			HCH	RB75#0	13.47	14.35	Pass
		20	LCH	RB100#0	17.91	19.05	Pass
			MCH	RB100#0	17.98	19.13	Pass
			HCH	RB100#0	17.94	19.04	Pass



Part II - Test Plots

4.1 For LTE

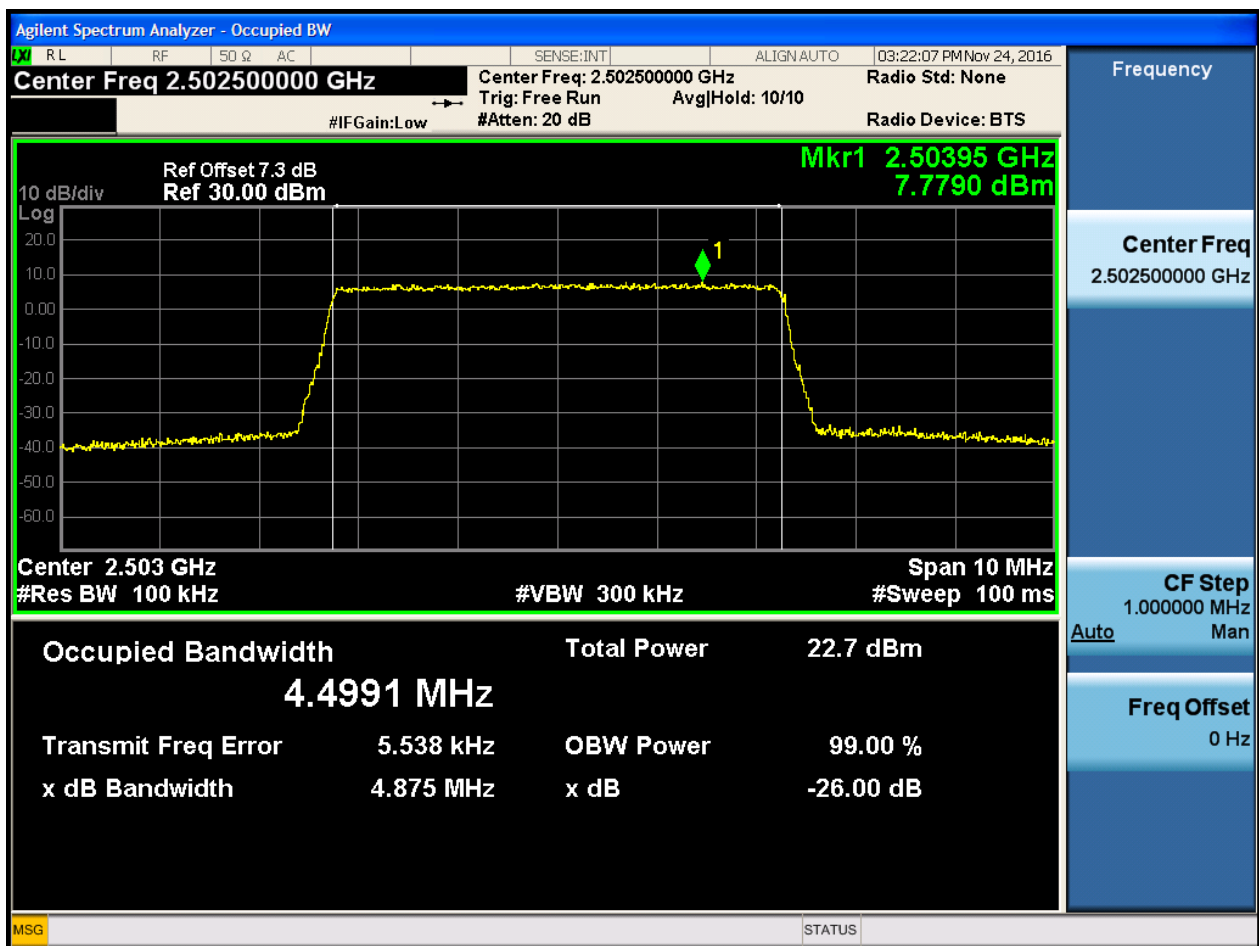
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

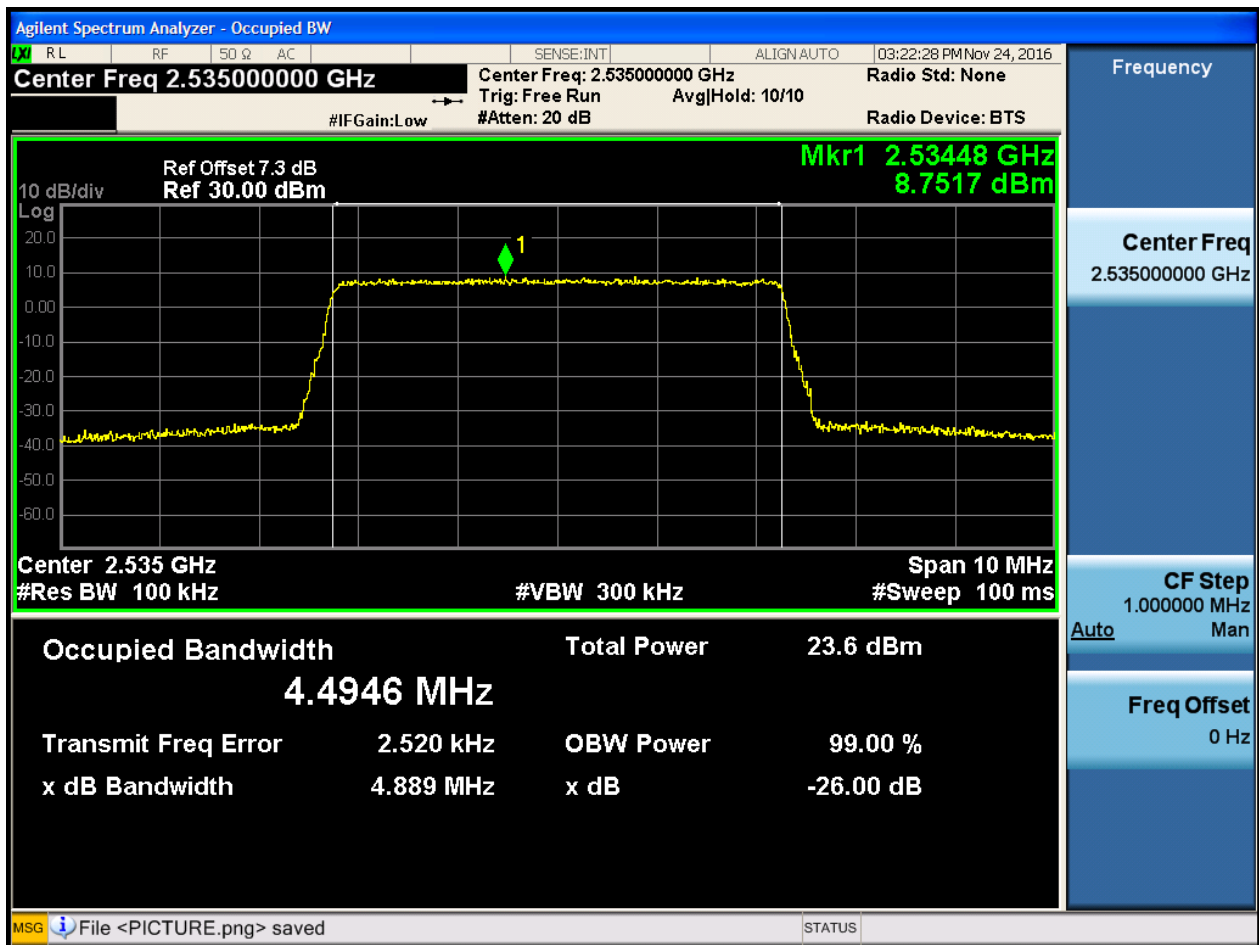
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

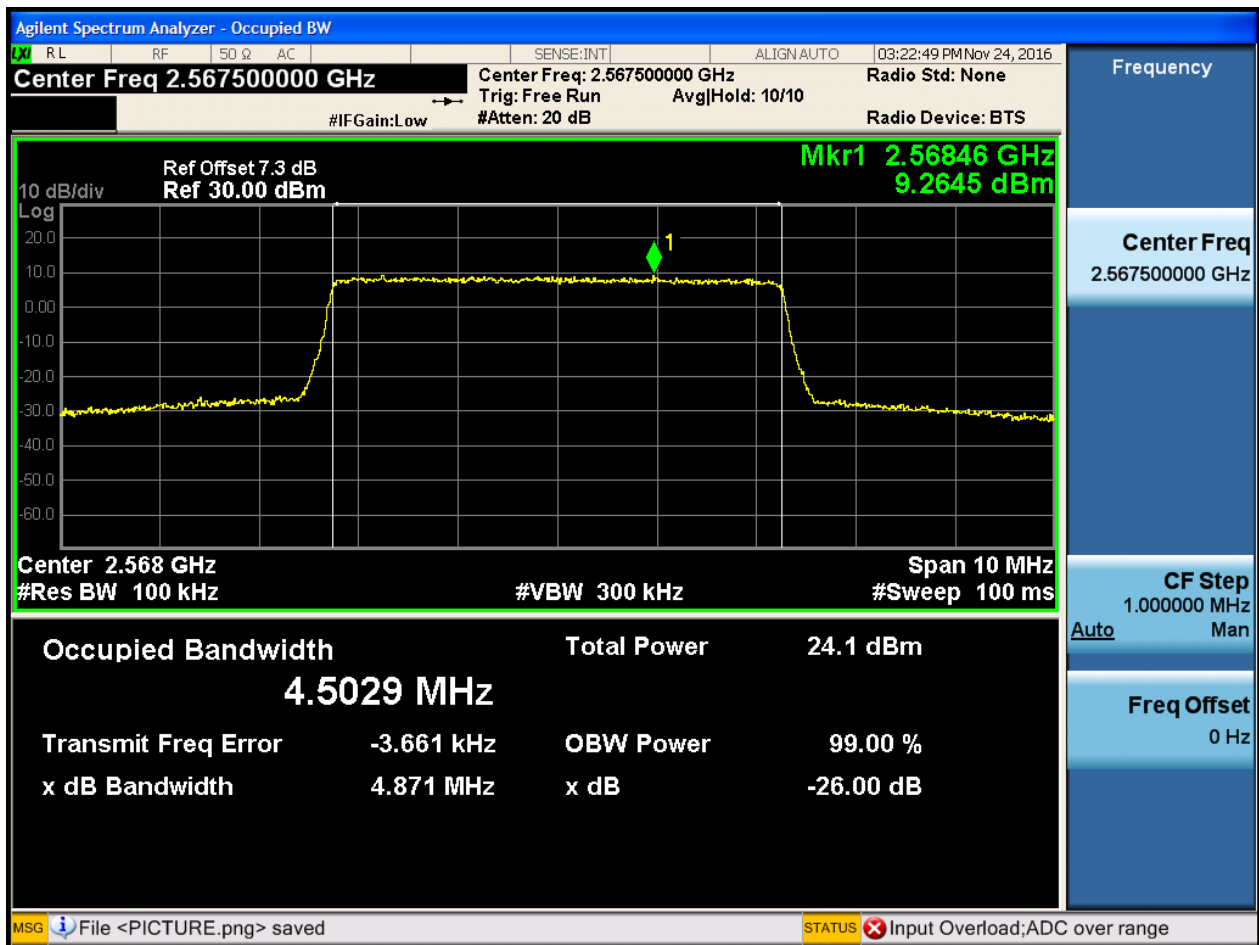
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

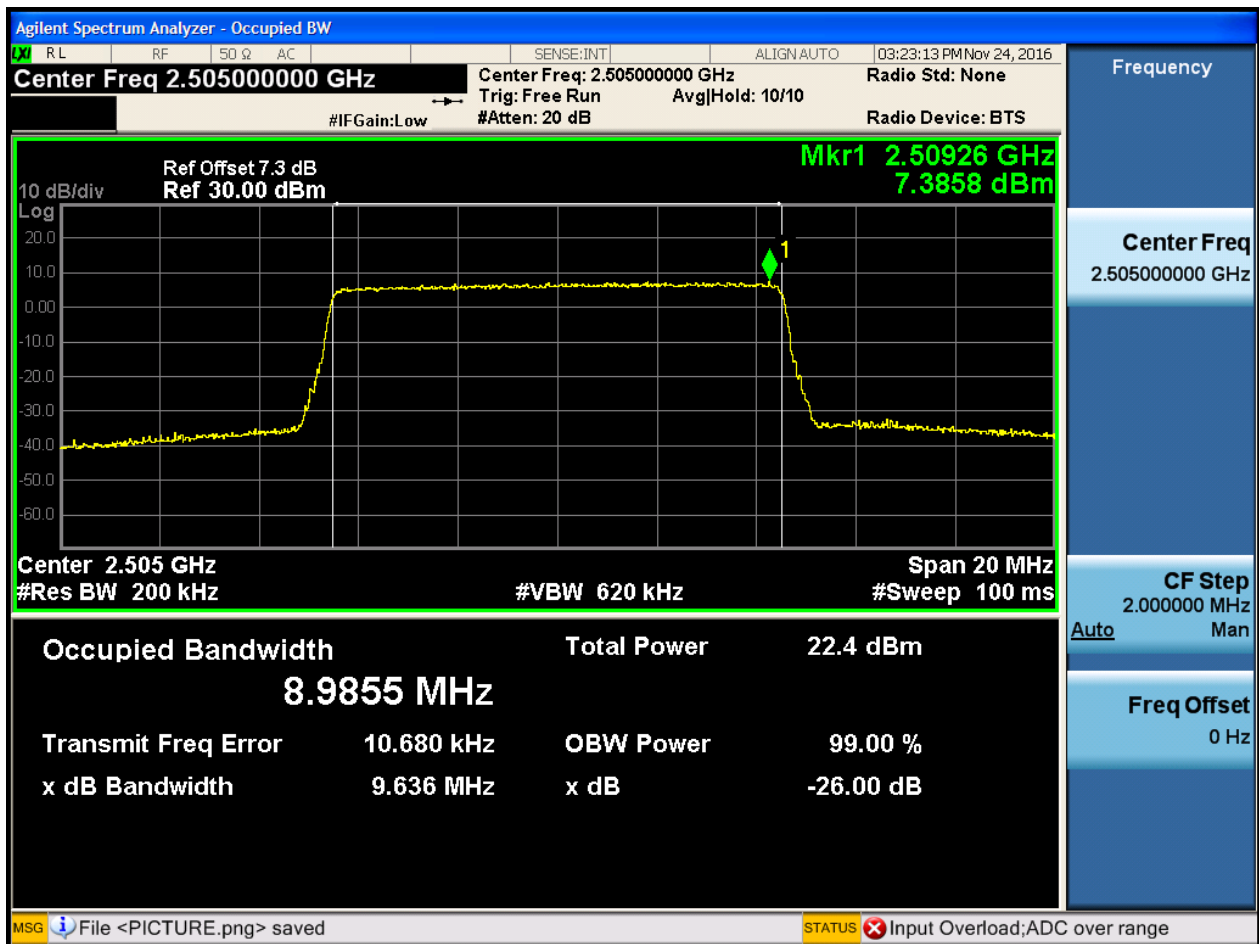




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

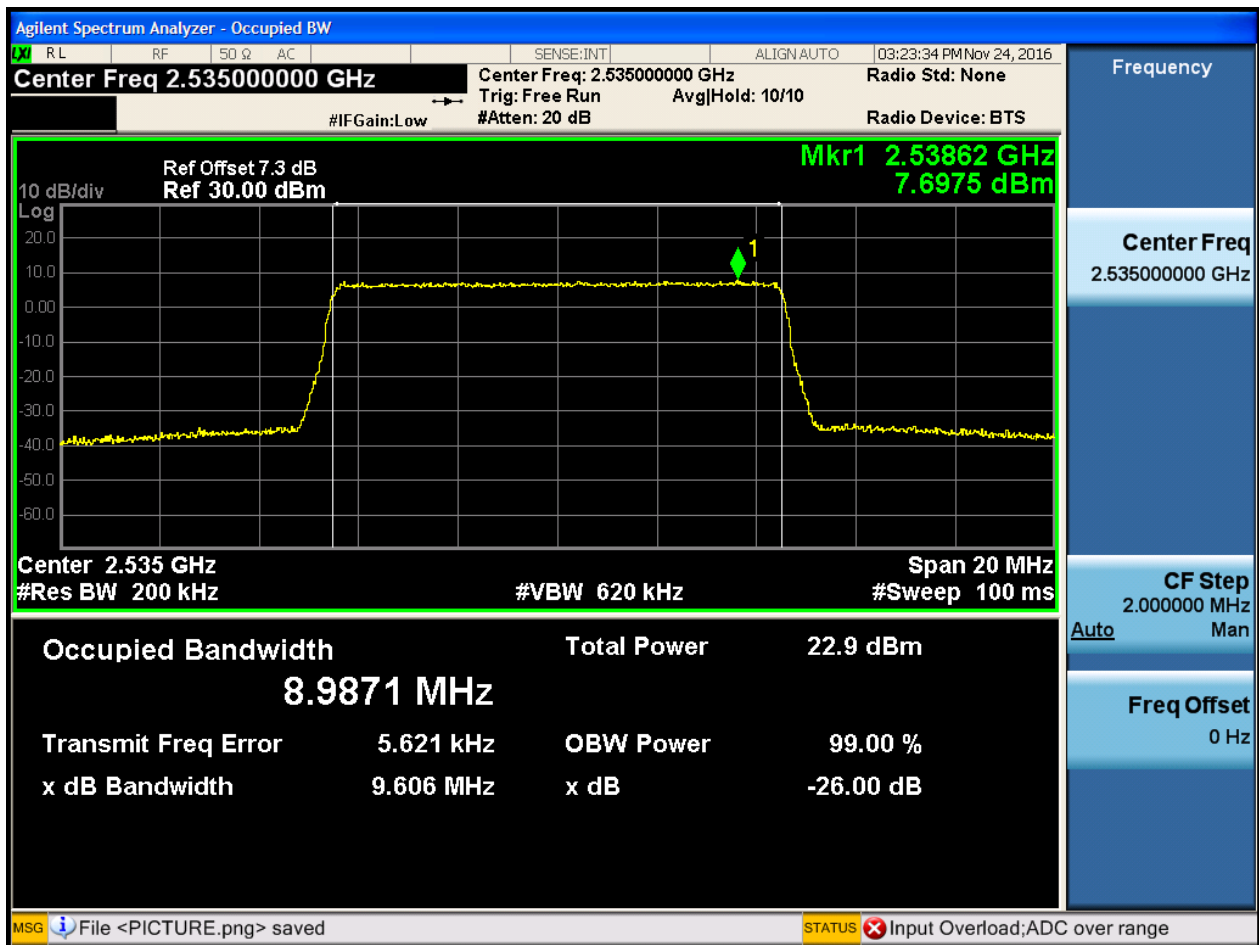
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

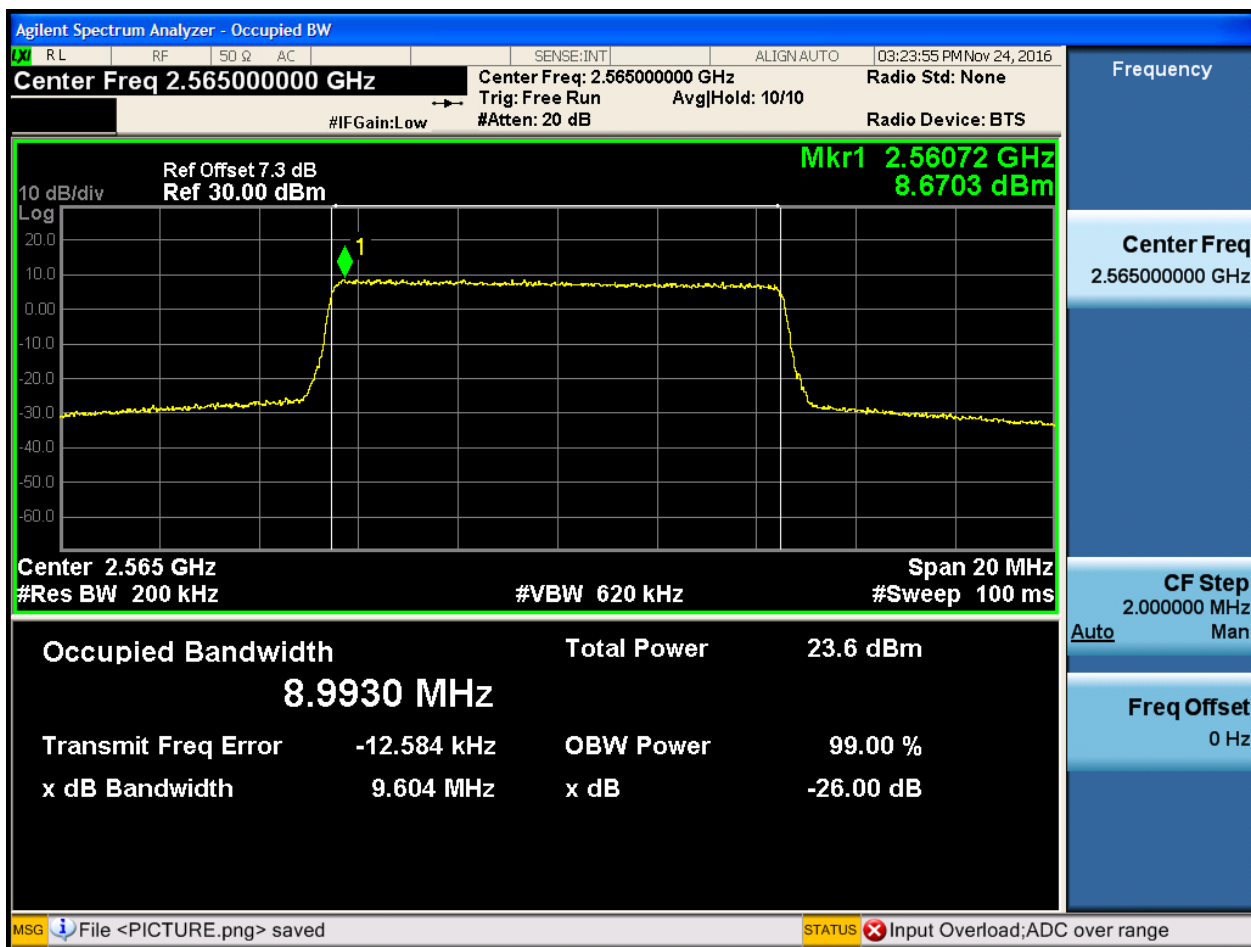
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

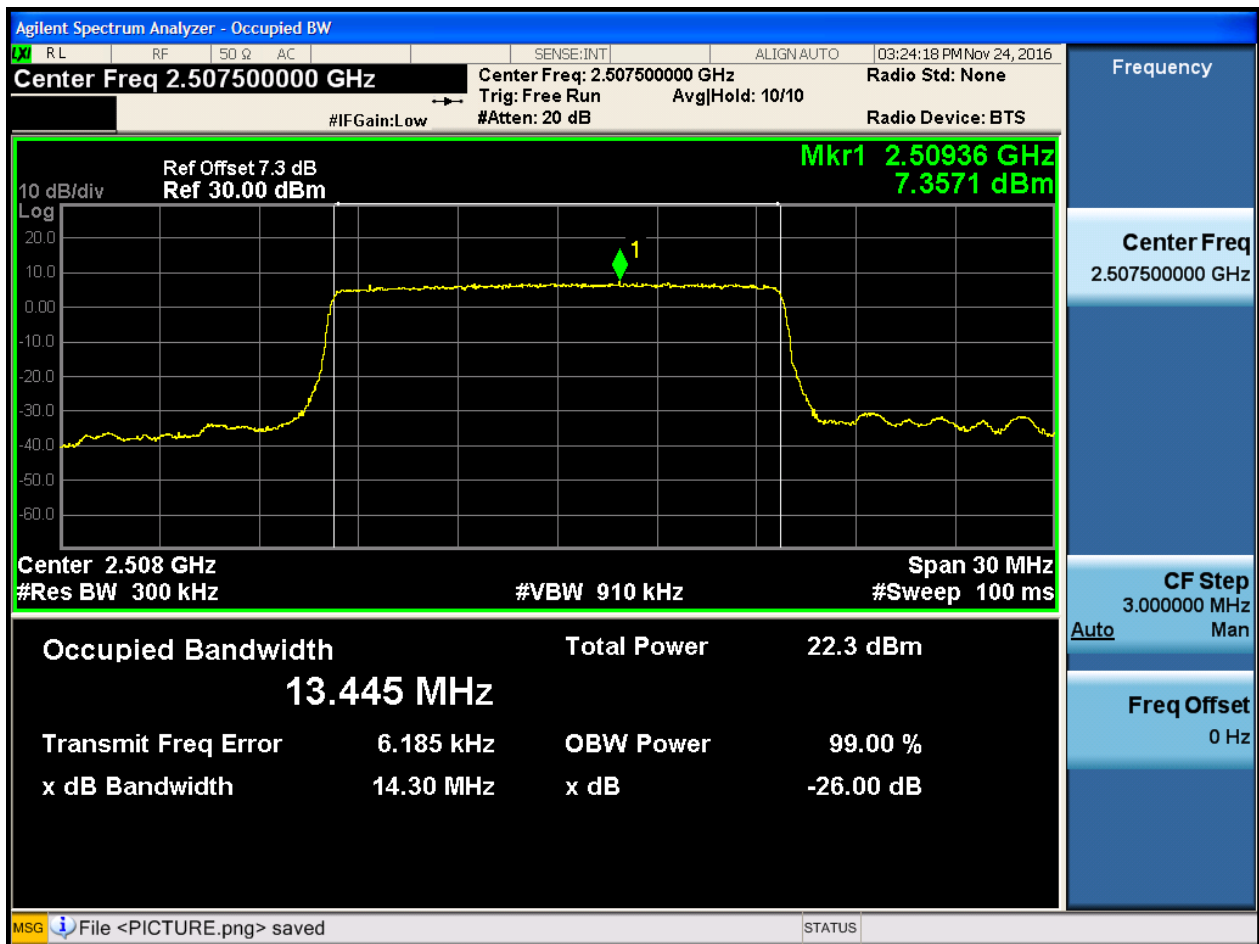




4.1.1.1.3 Test Bandwidth = 15

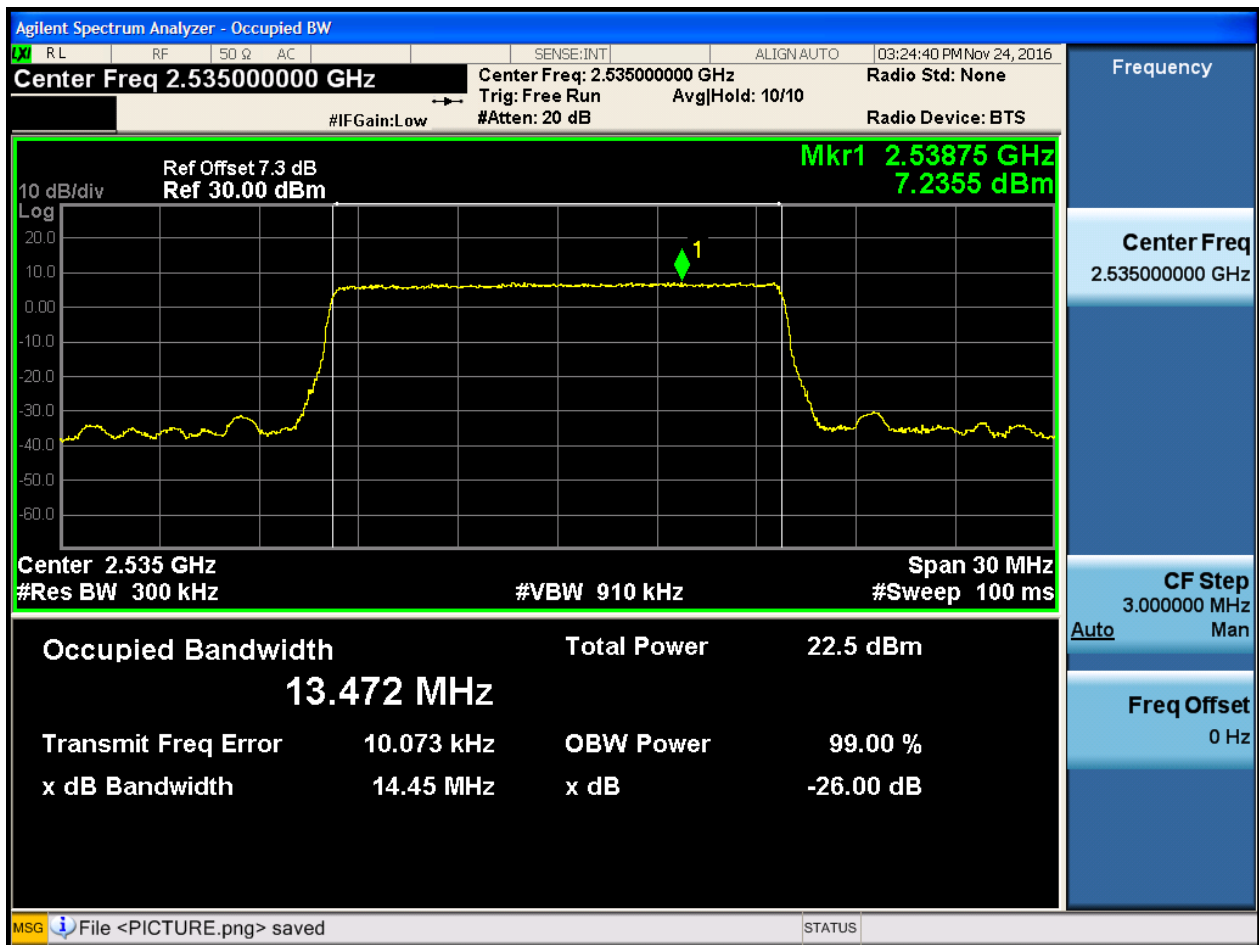
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1.3.2 Test Channel = MCH

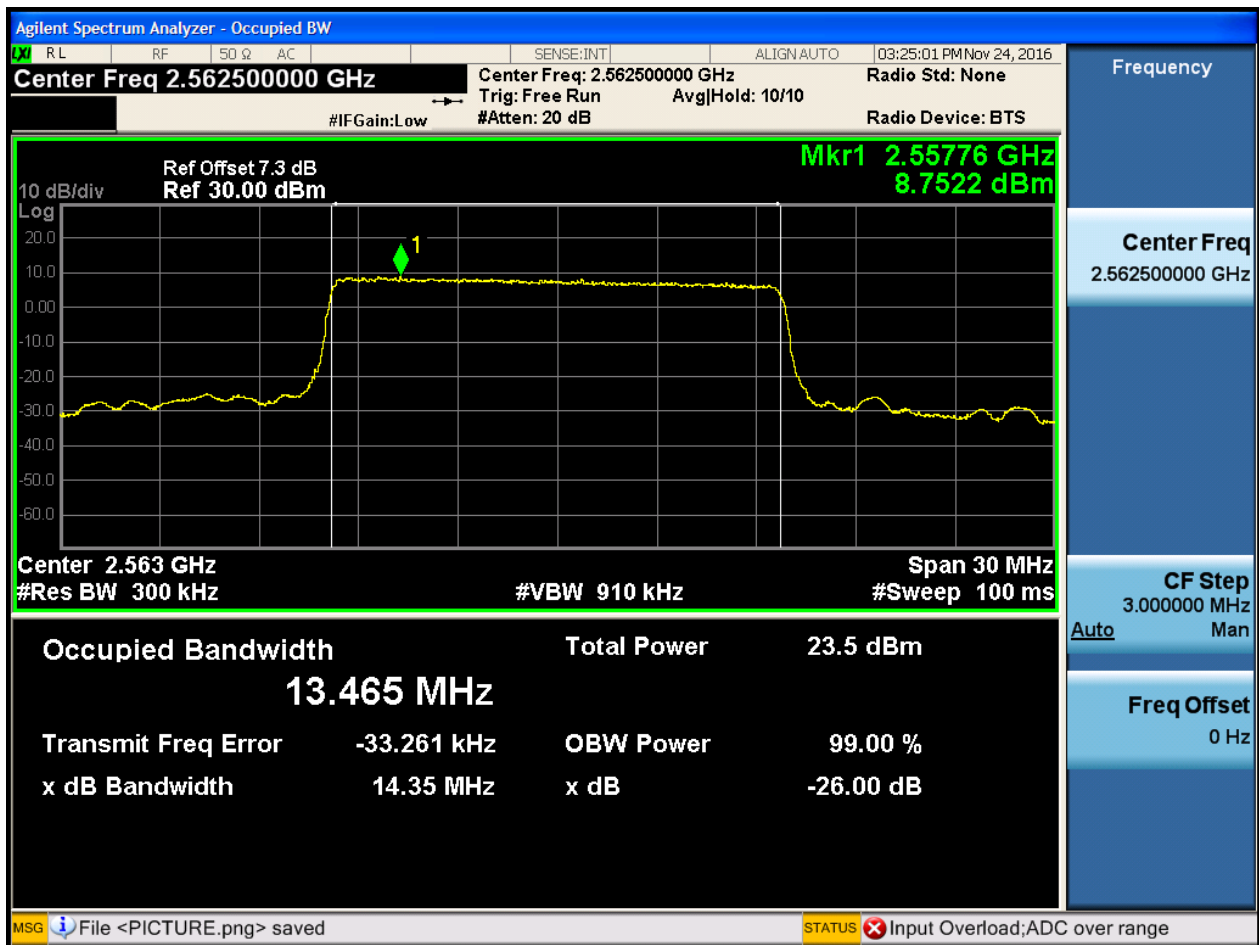
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

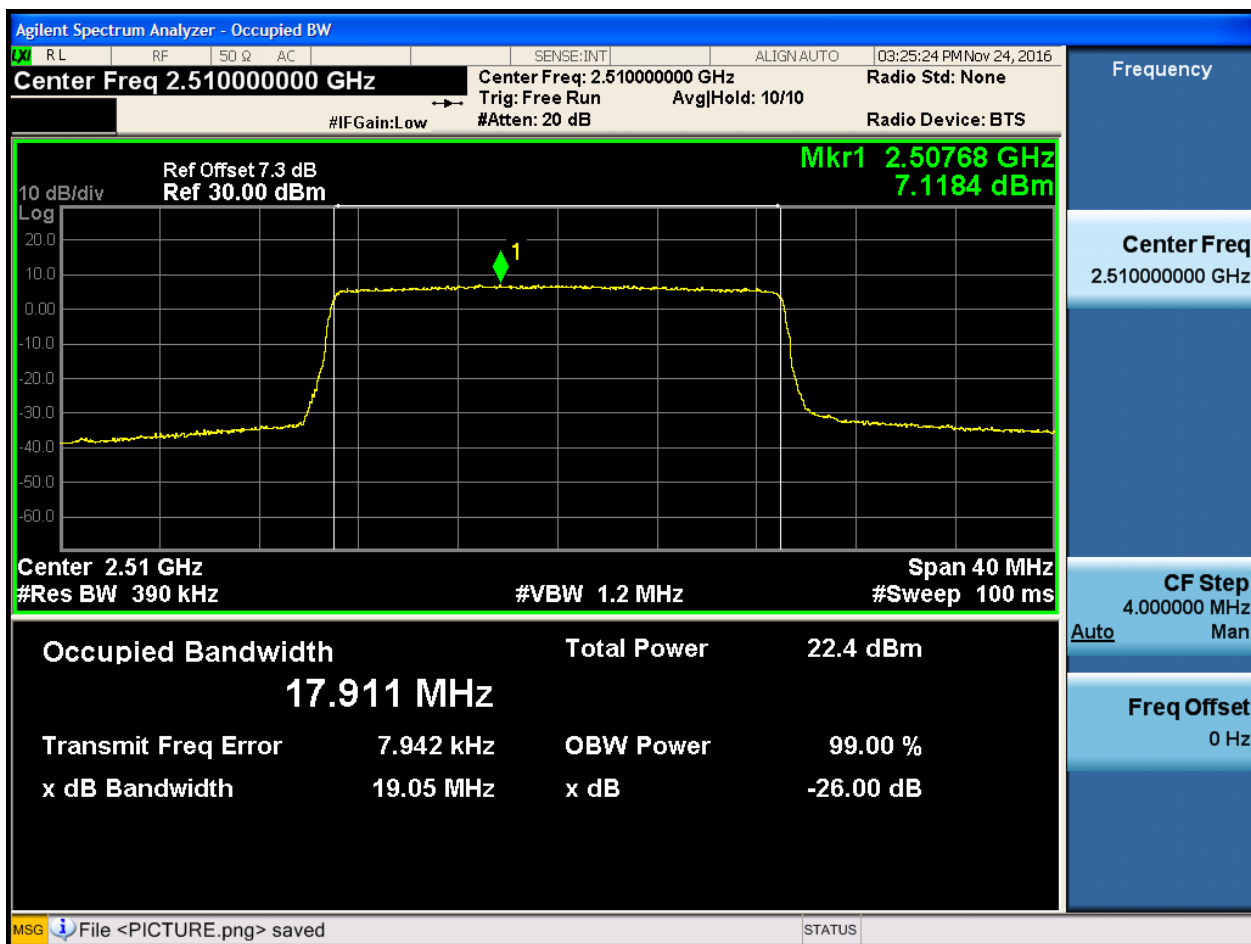




4.1.1.1.4 Test Bandwidth = 20

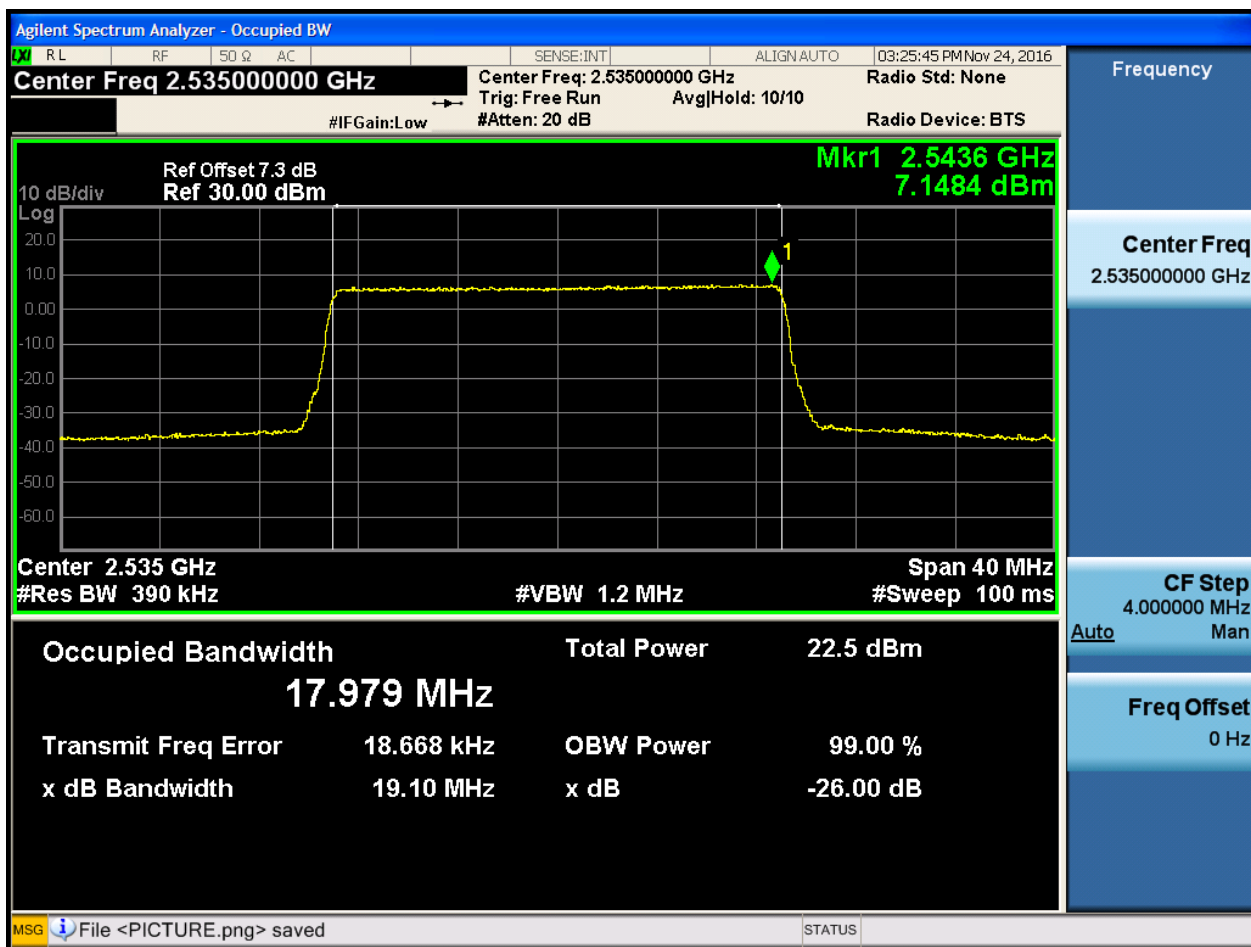
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



4.1.1.1.4.2 Test Channel = MCH

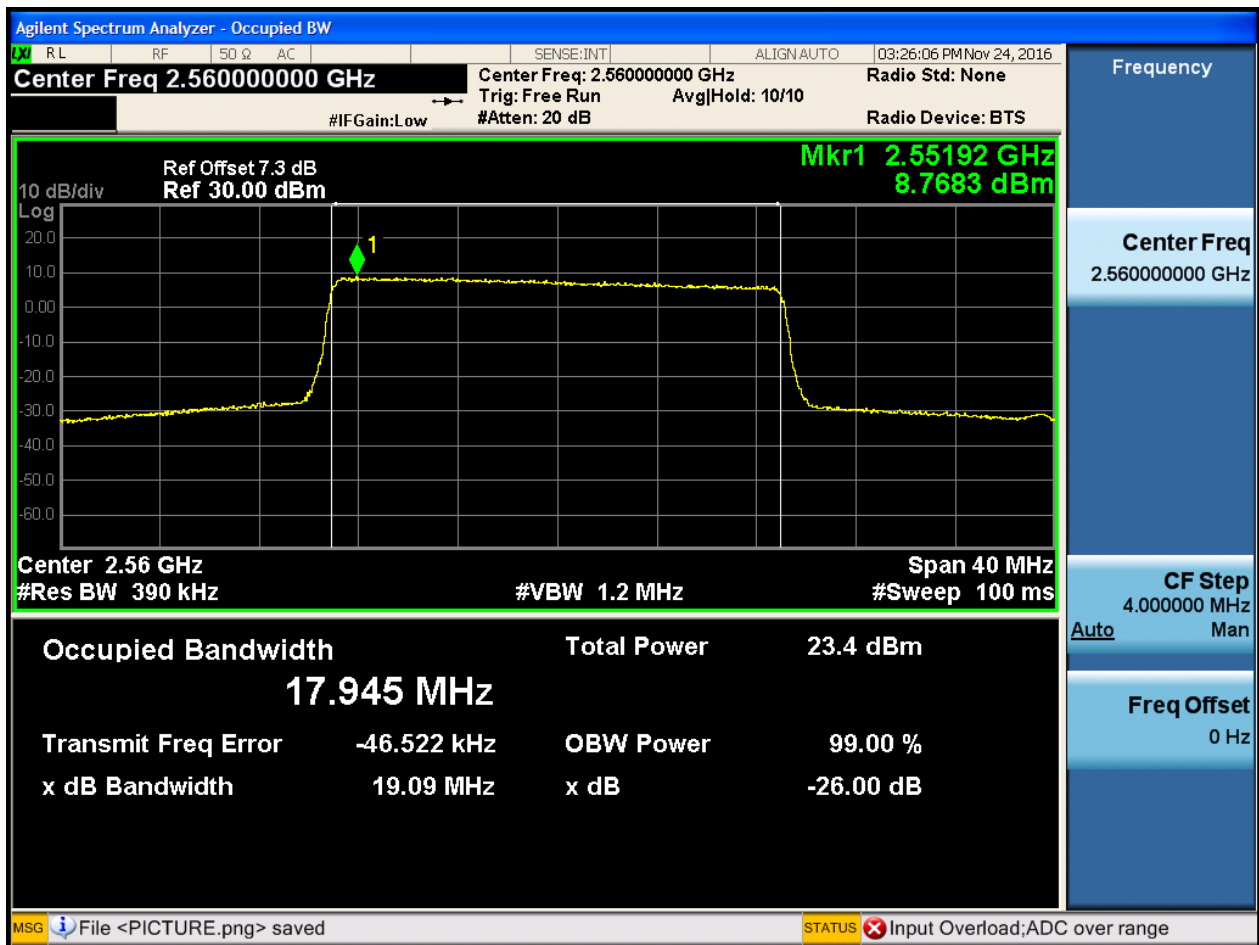
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



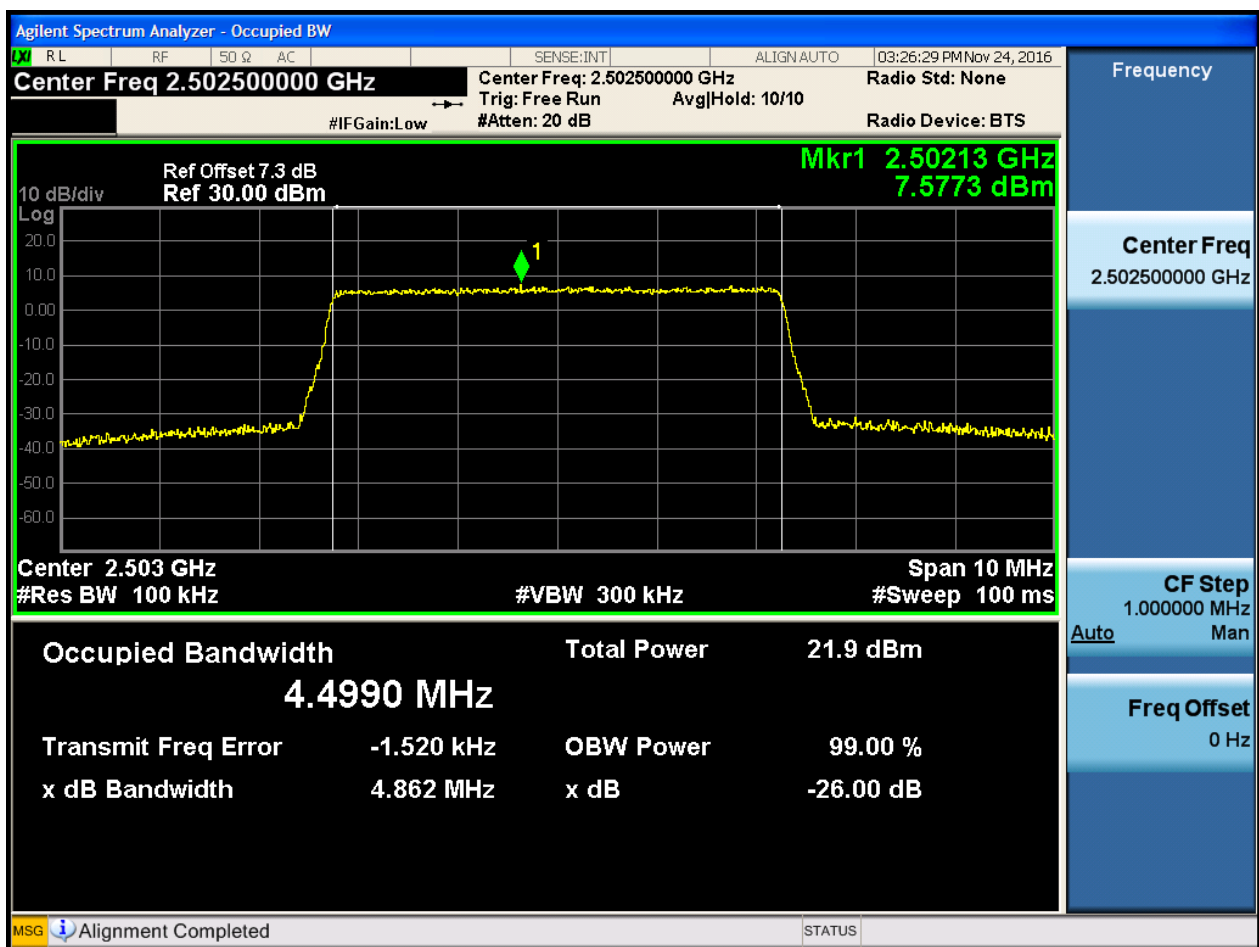


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

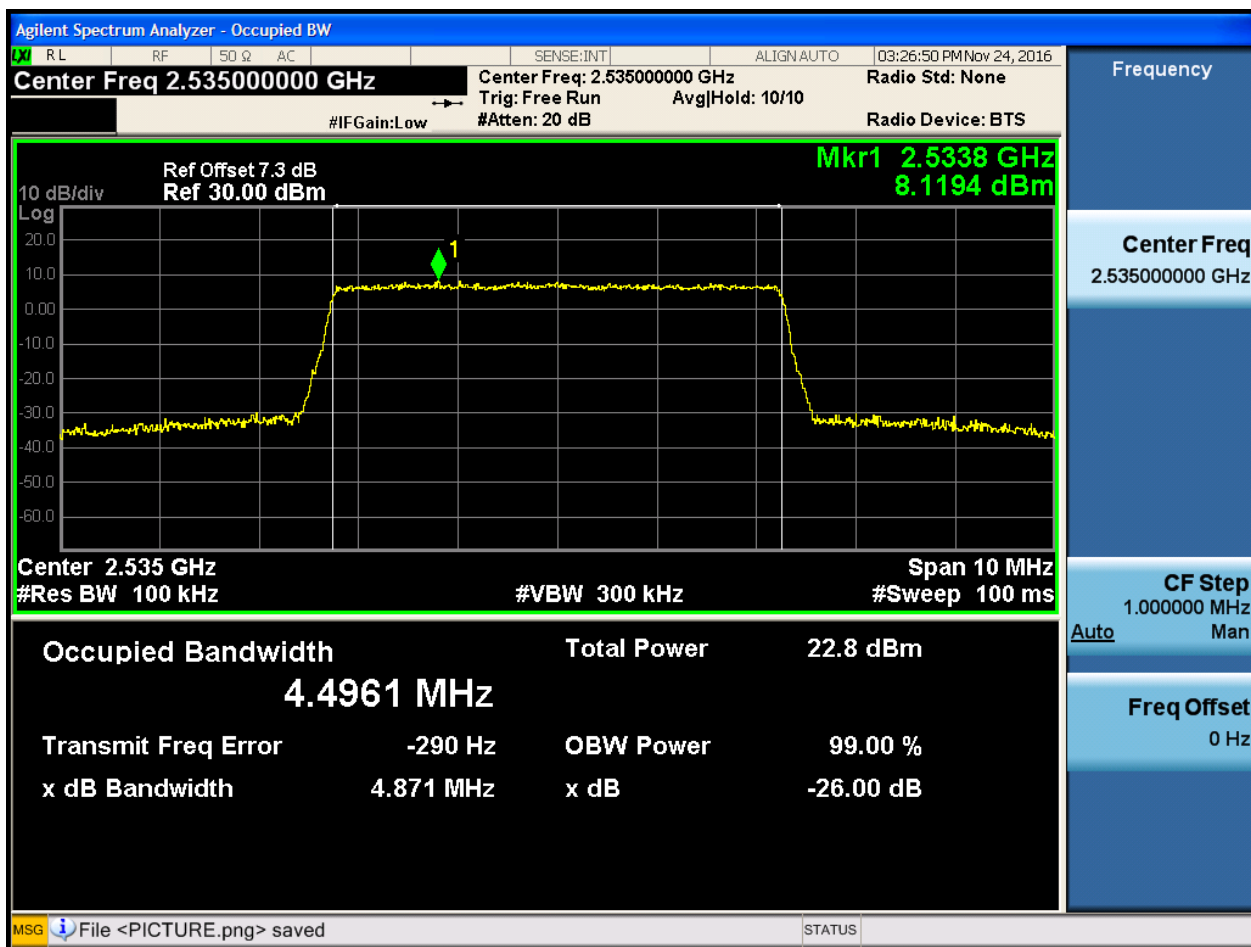
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

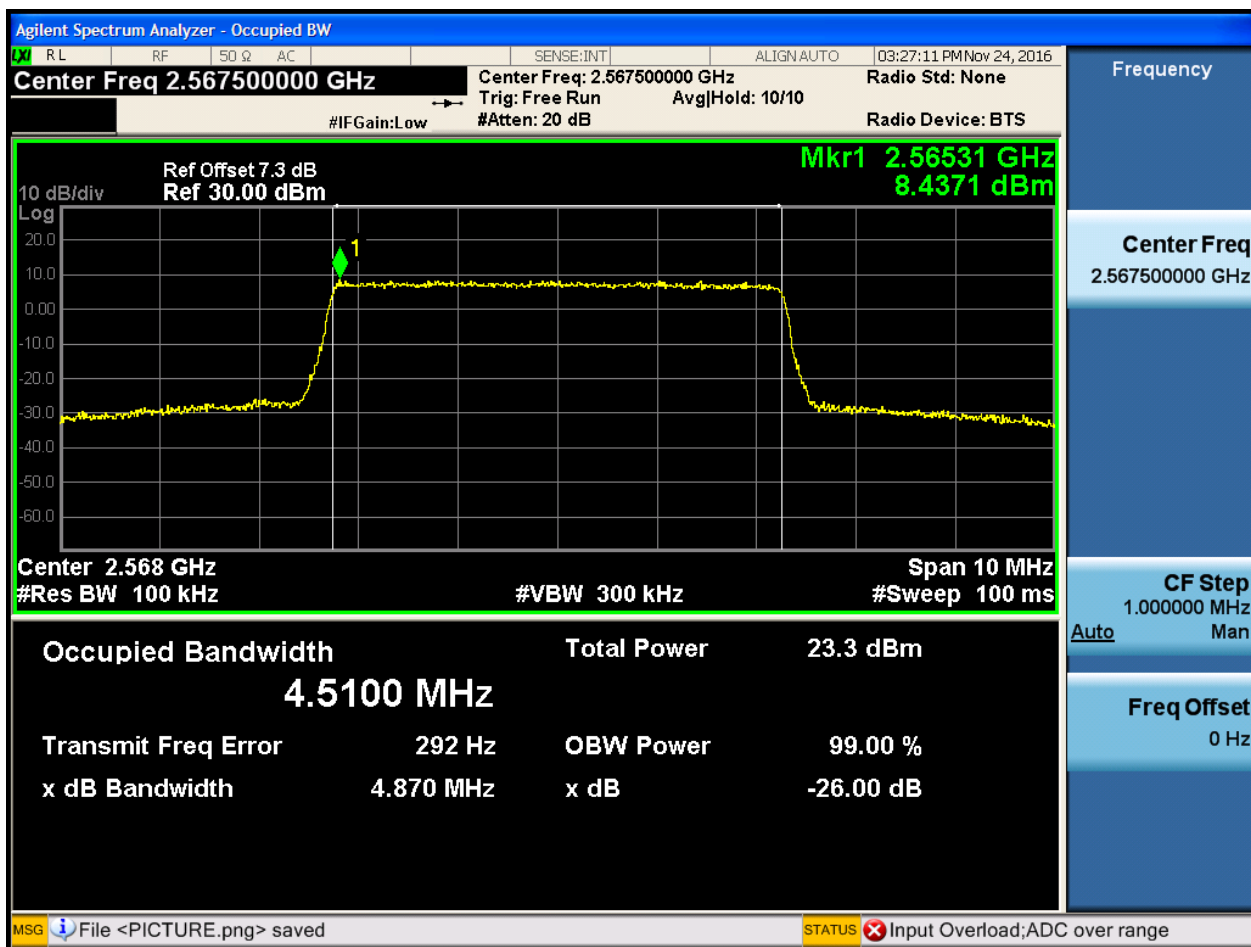
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

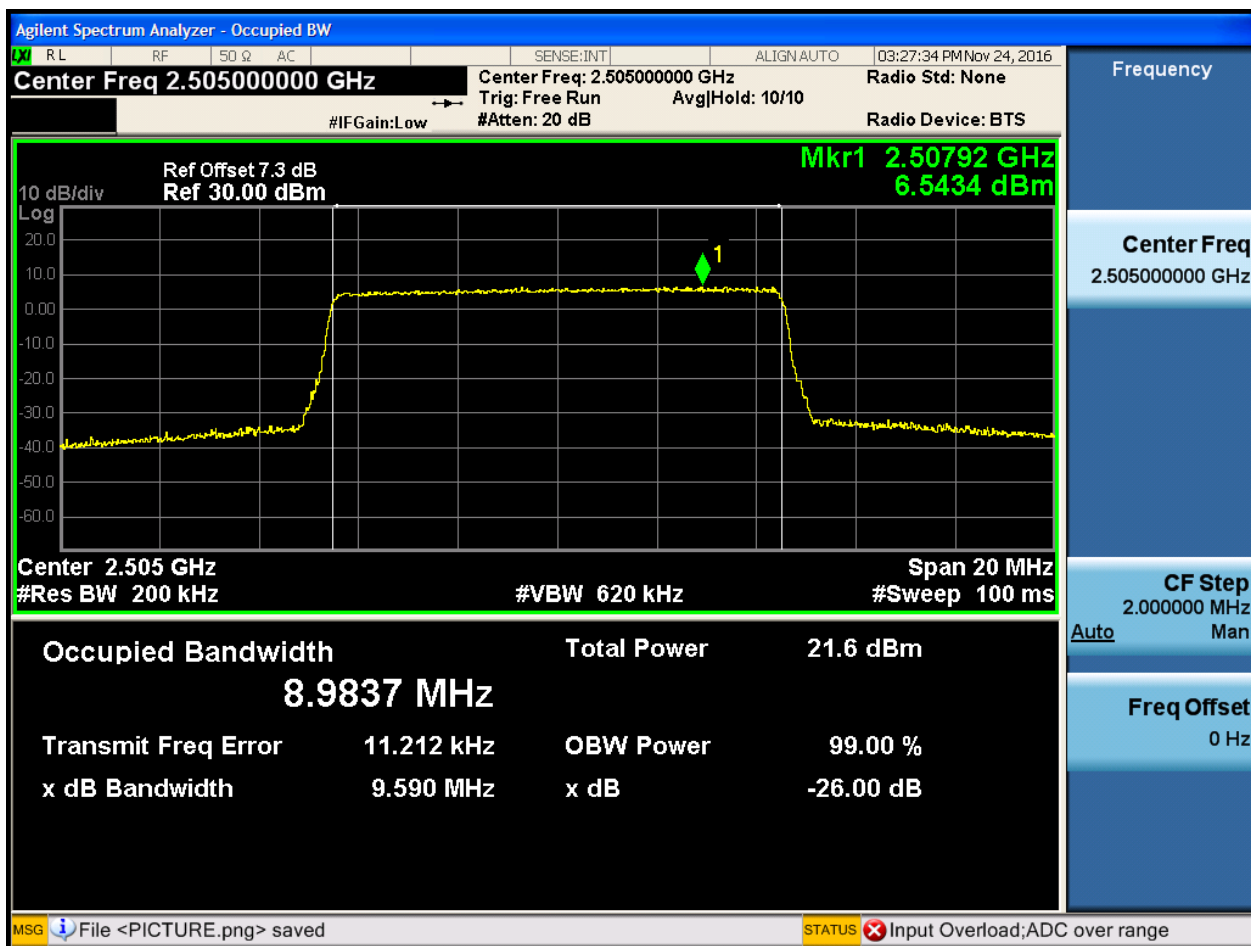




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

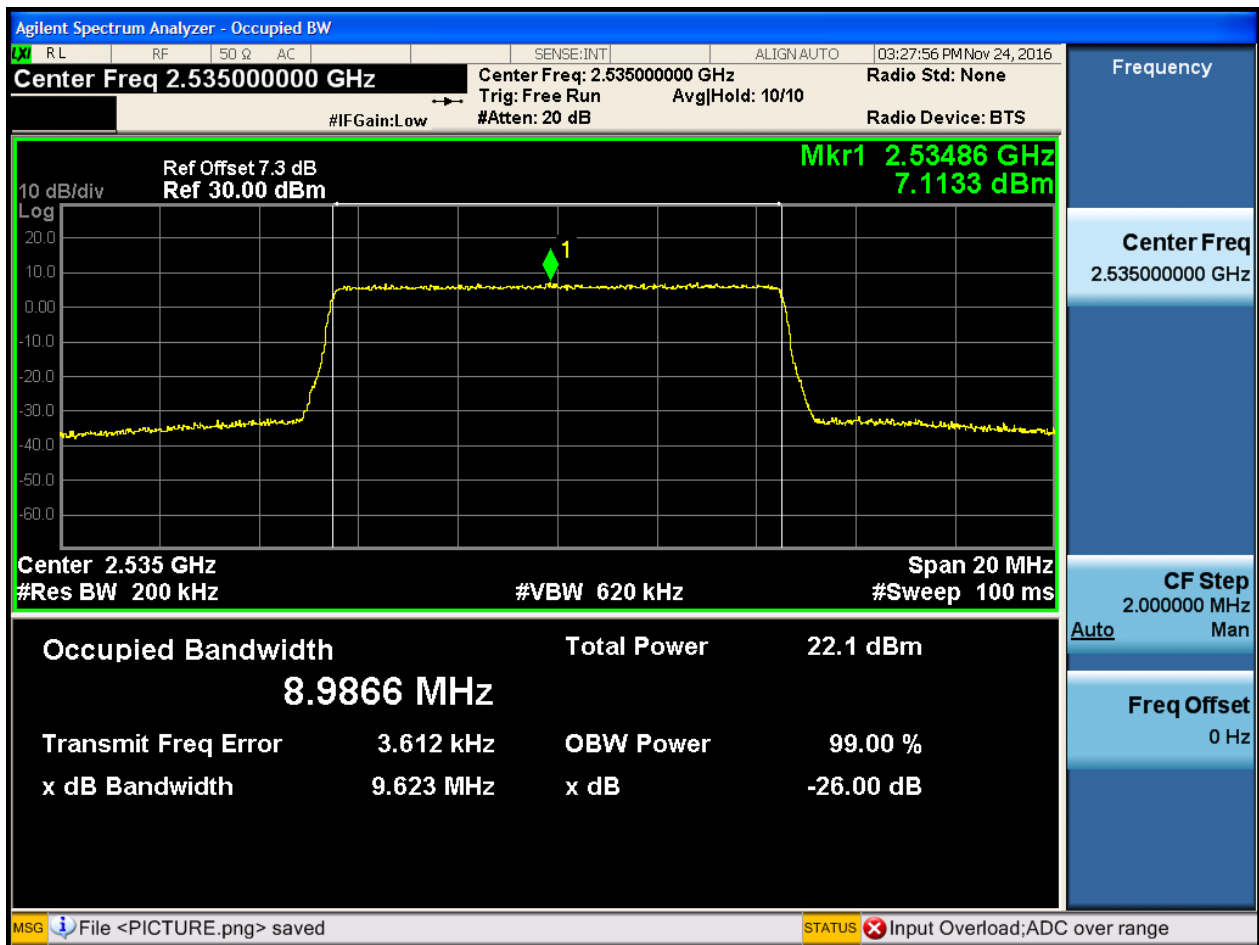
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

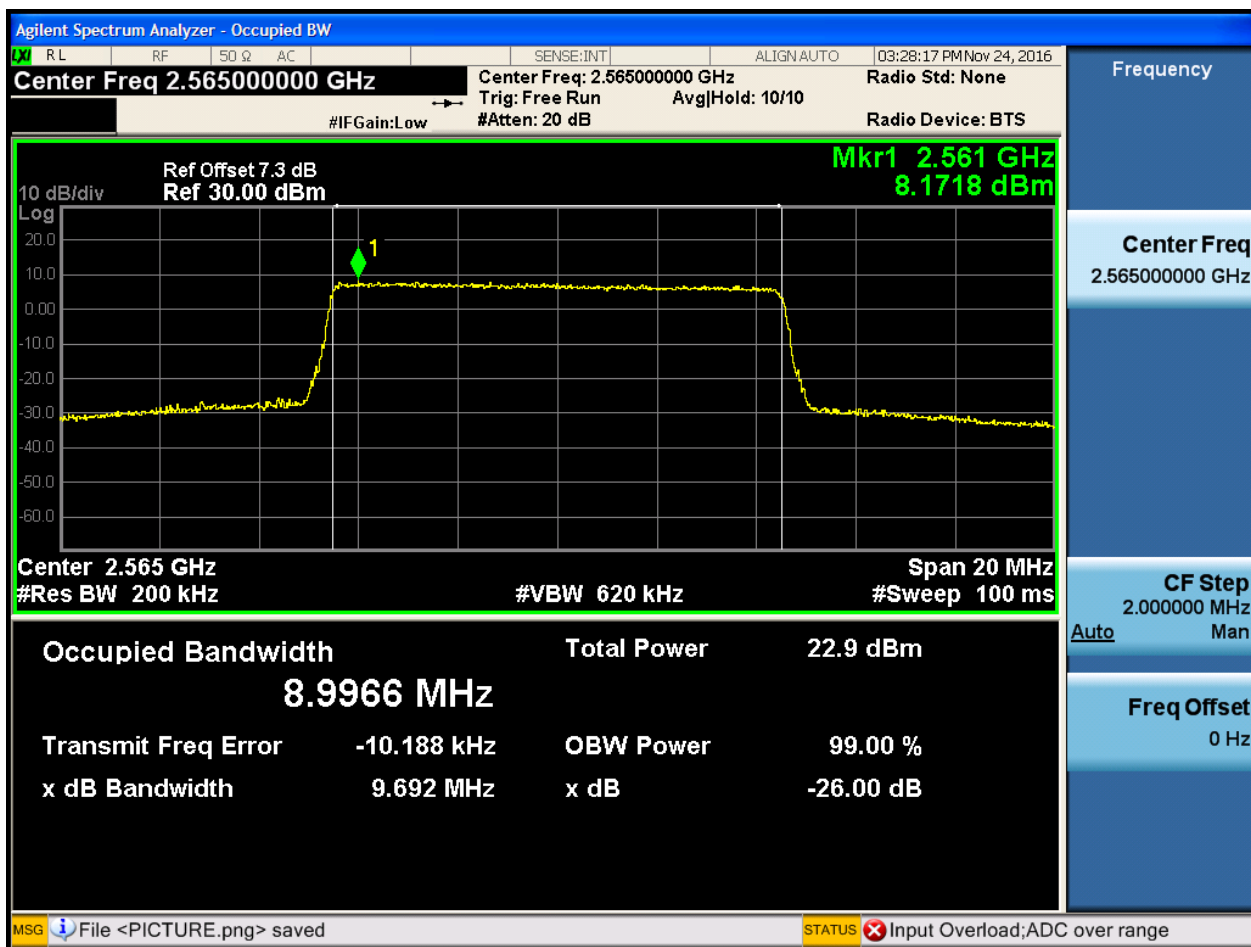
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

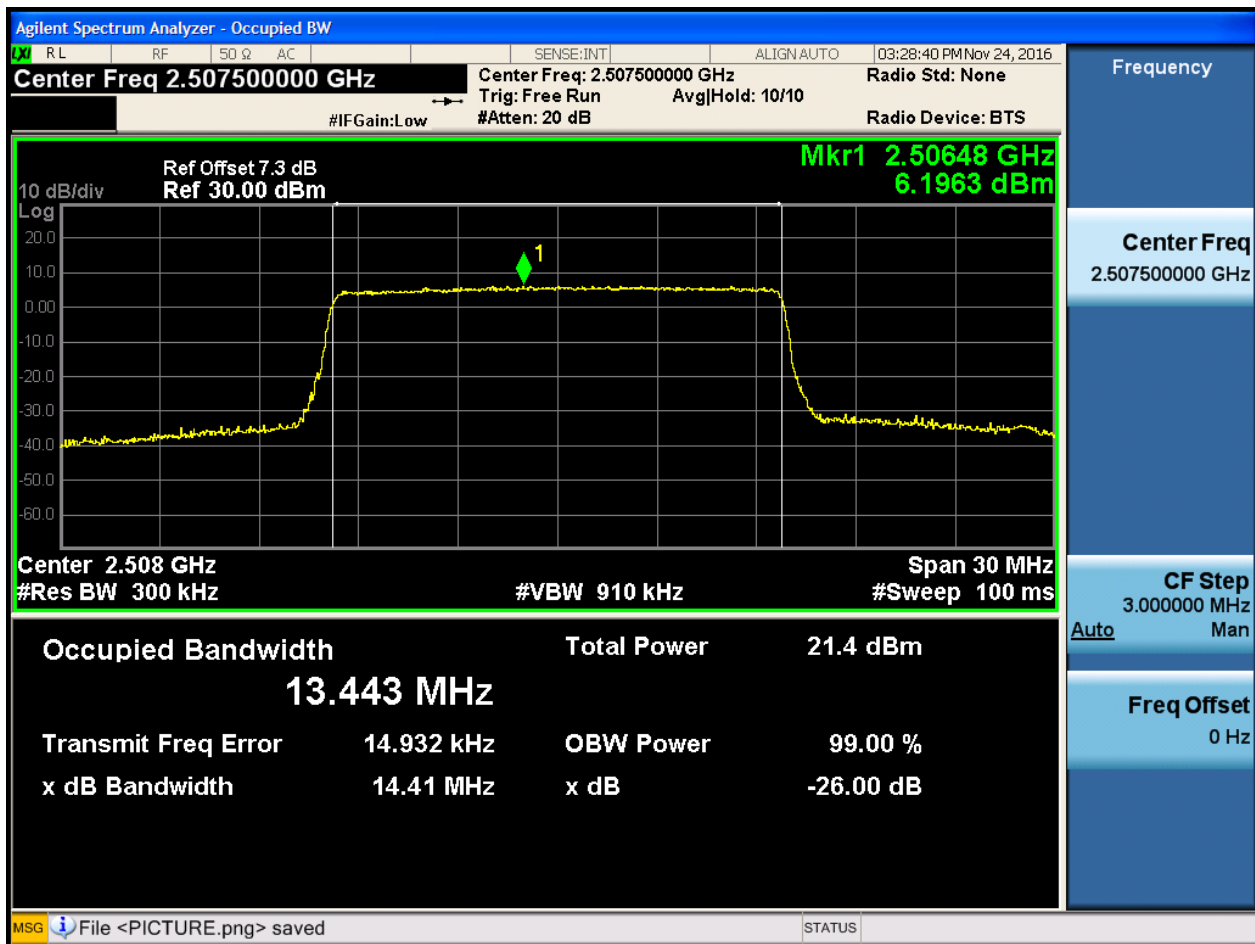




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

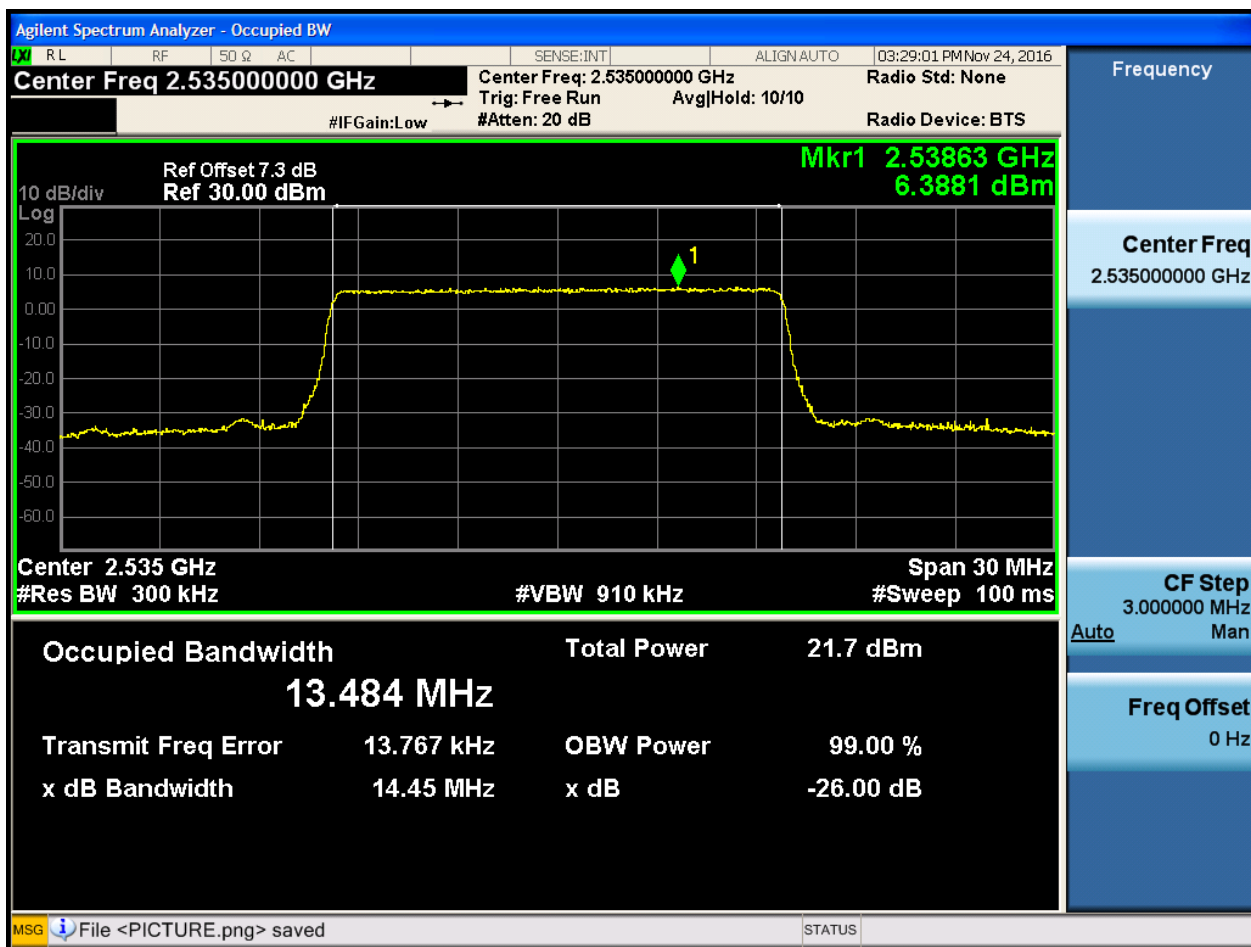
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

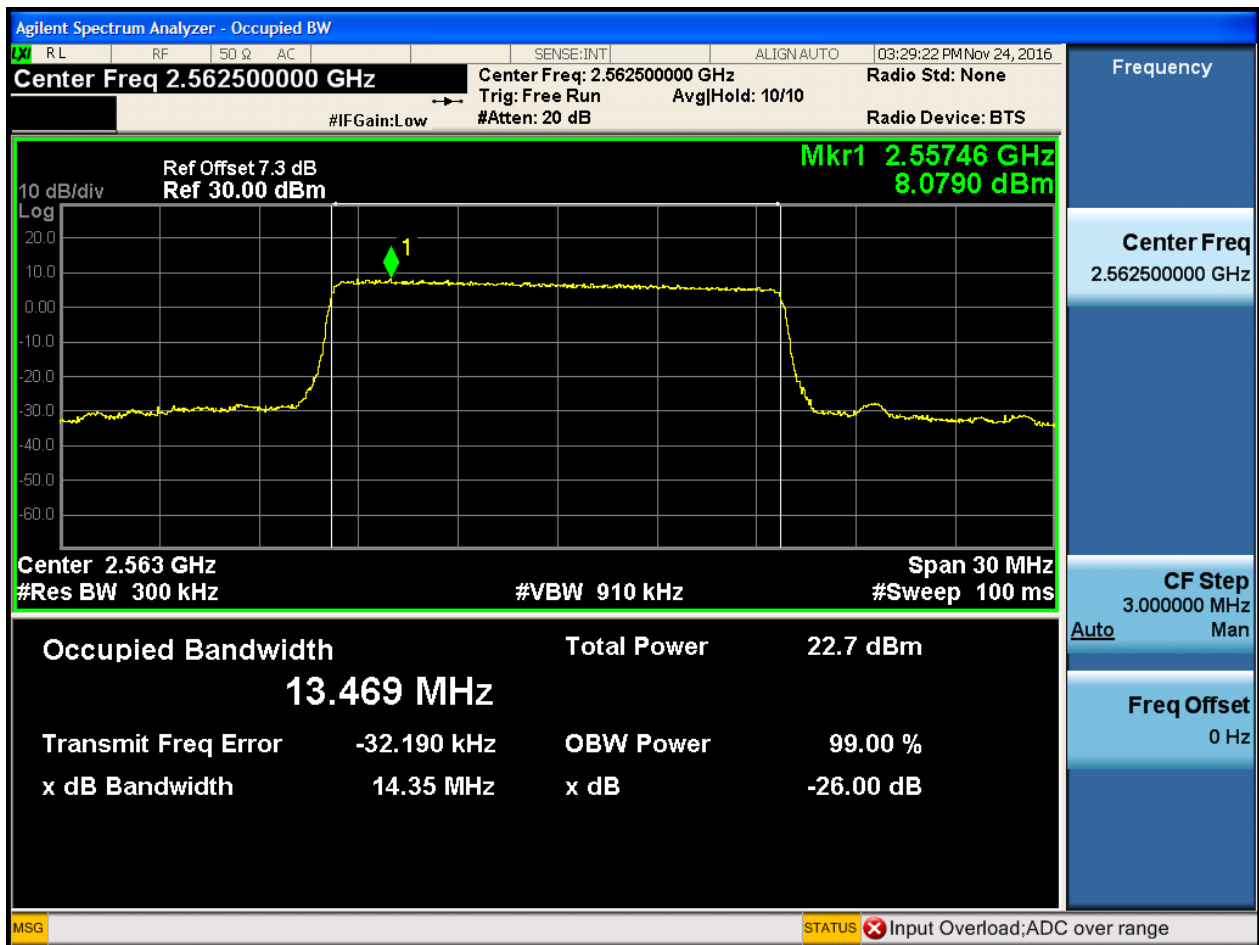
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

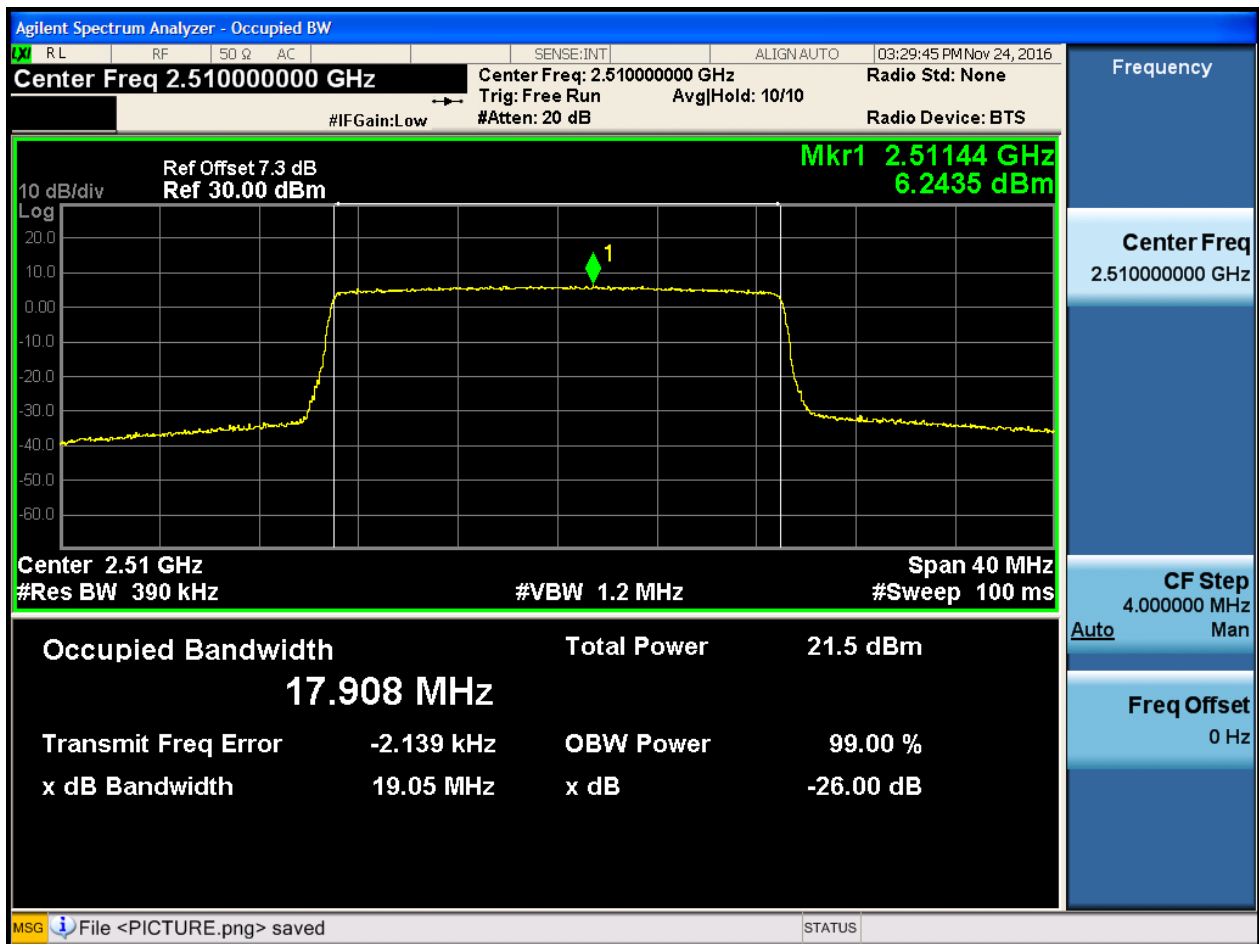




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

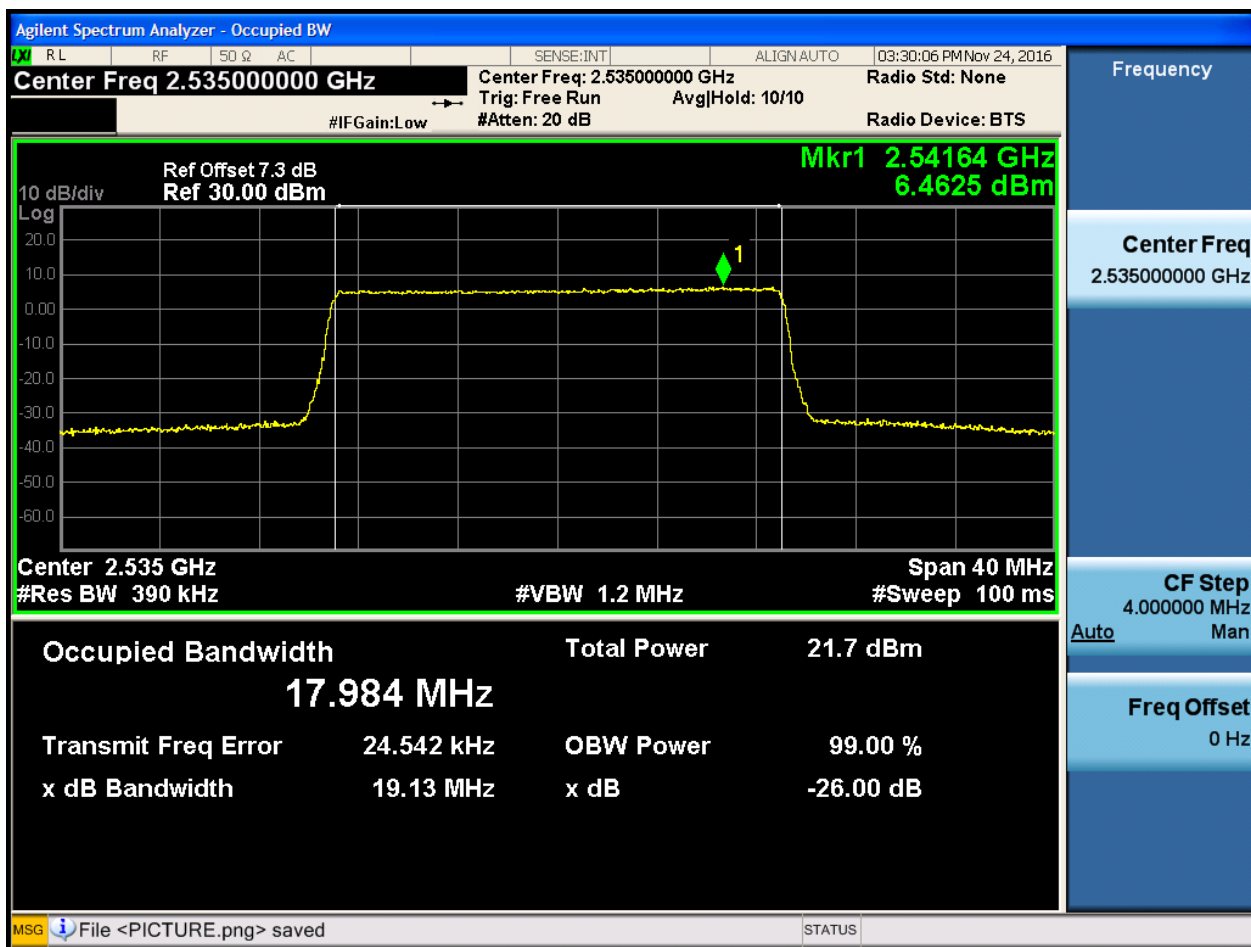
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

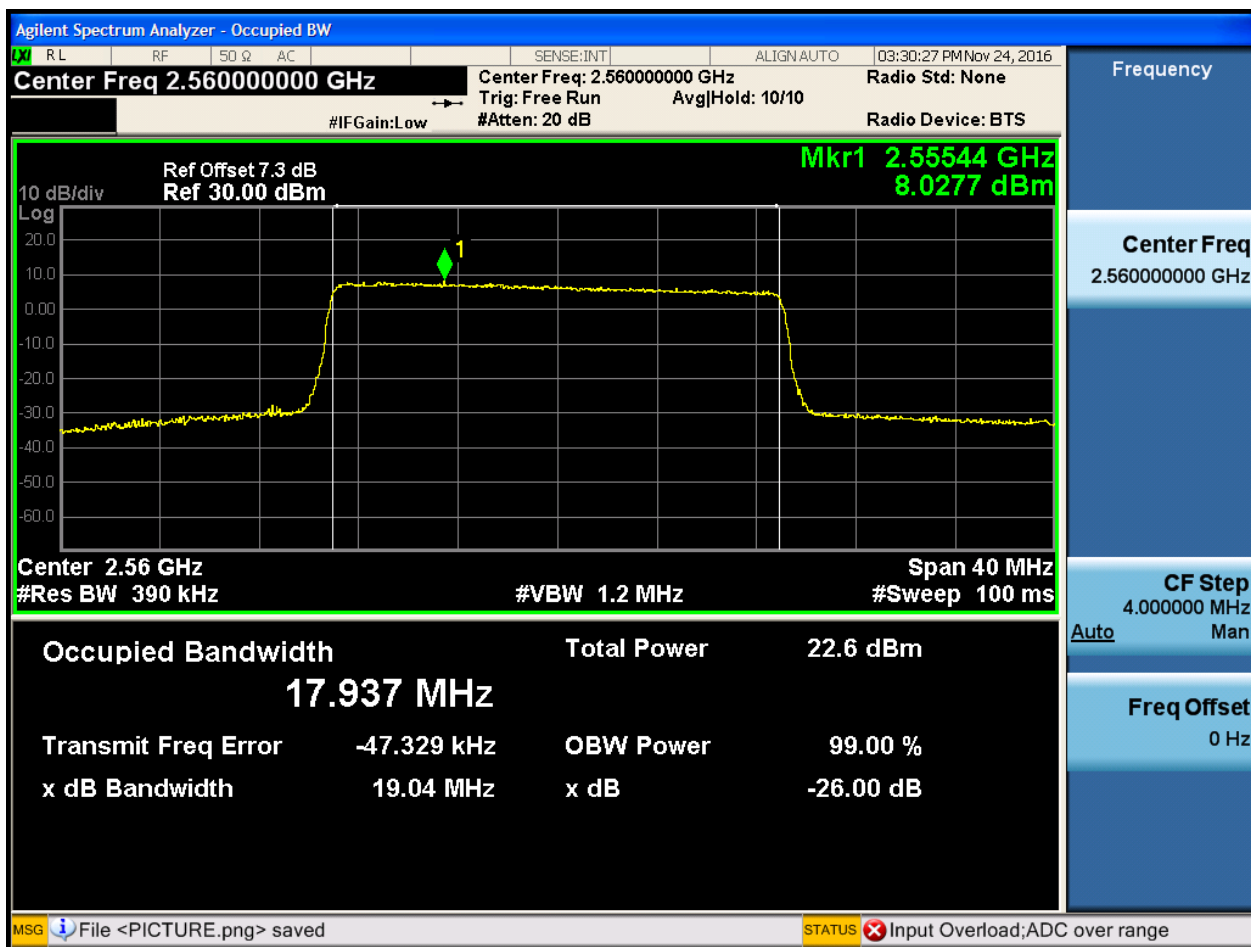
4.1.1.2.4.2.1 Test RB = RB100#0





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

5.2 For LTE

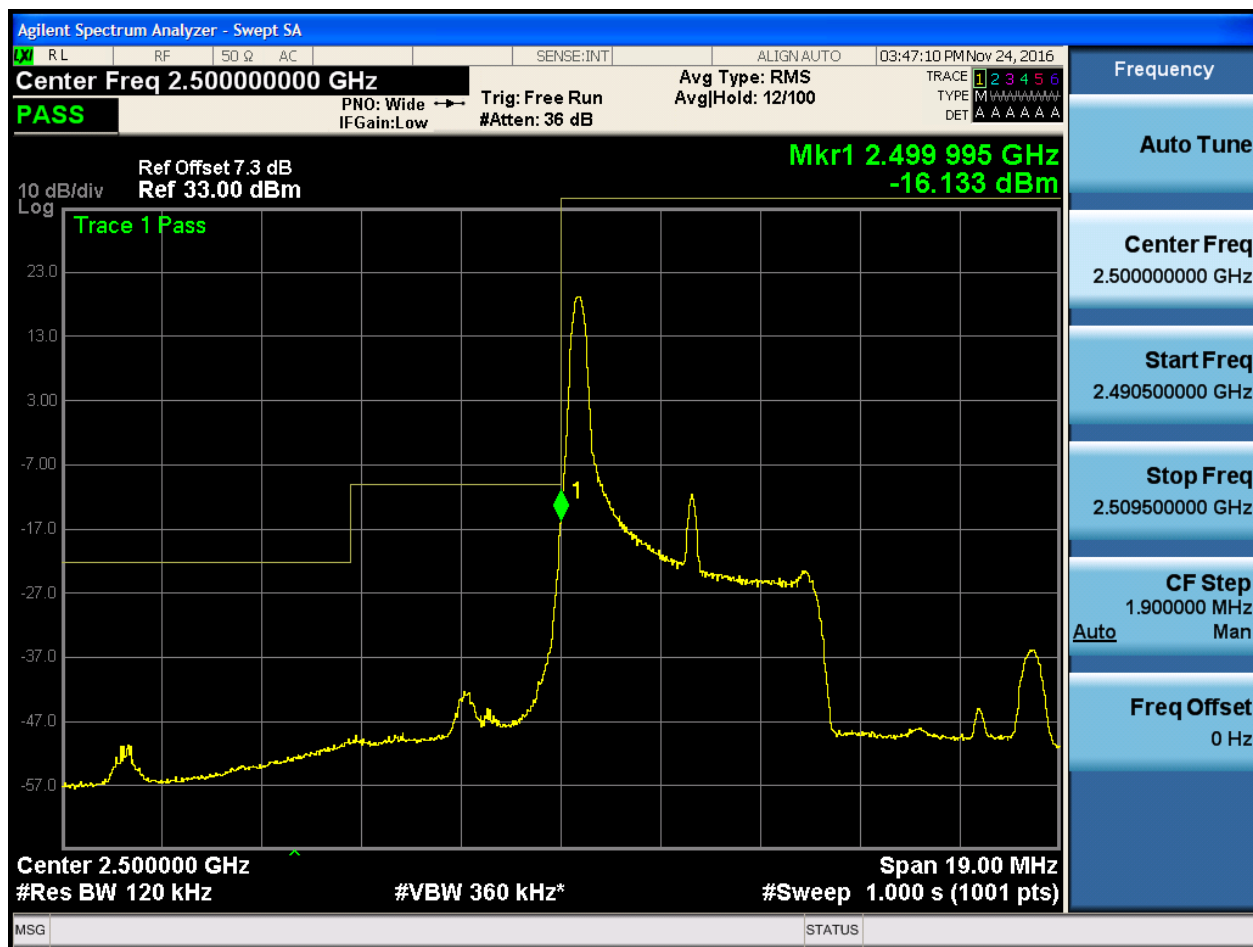
5.2.1 Test Band = BAND7

5.2.1.1 Test Mode = LTE/TM1

5.2.1.1.1 Test Bandwidth = 5

5.2.1.1.1.1 Test Channel = LCH

5.2.1.1.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS PNO: Wide IF Gain: Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg/Hold: 12/100

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

The spectrum analyzer displays a trace labeled "Trace 1 Pass". The main peak is identified as "Mkr1 2.499 995 GHz -35.525 dBm". The y-axis is logarithmic power from -57.0 to 23.0 dBm. The x-axis is frequency from 2.4905 to 2.5095 GHz. A yellow marker '1' is placed on the rising edge of the main peak.

Ref Offset 7.3 dB Ref 33.00 dBm

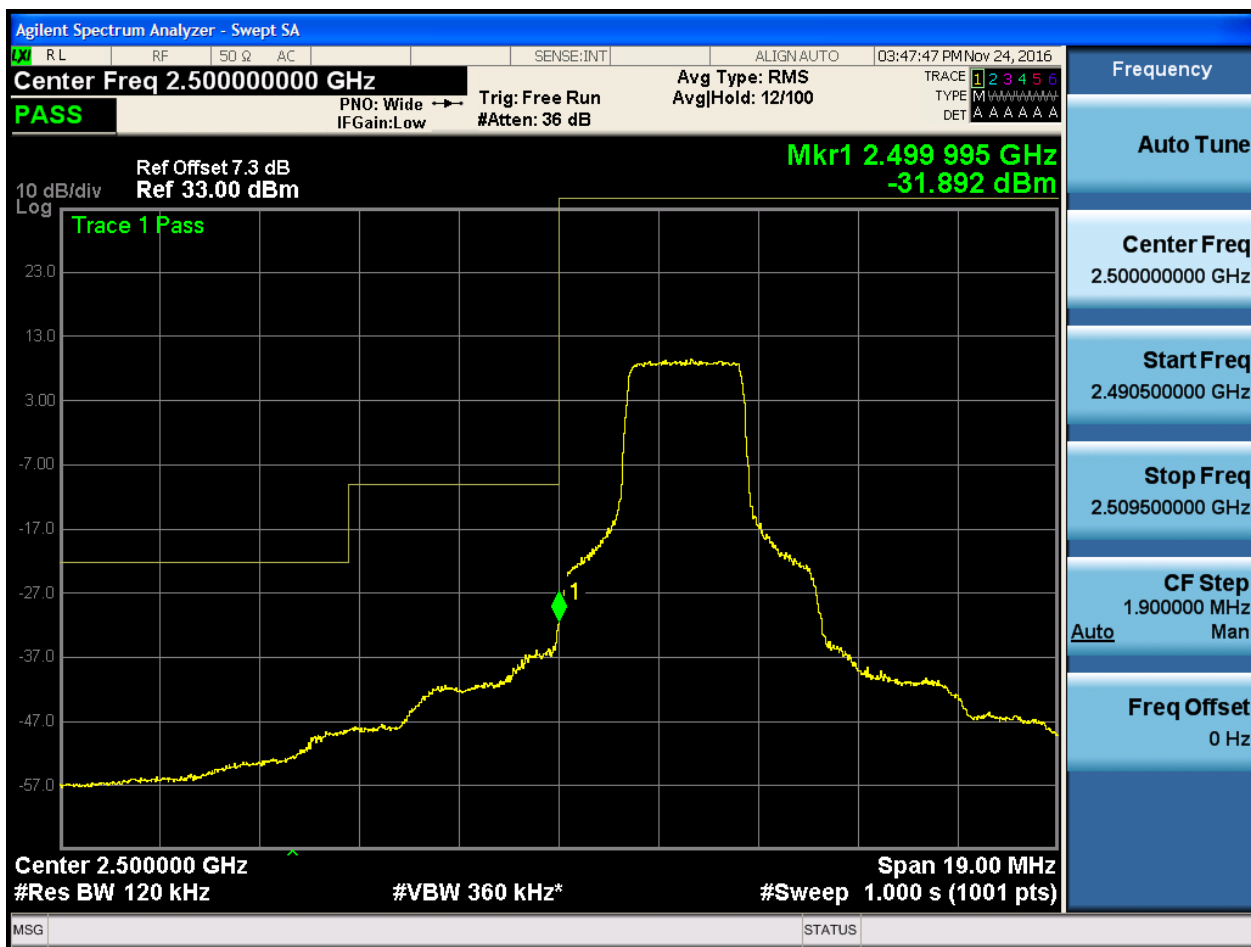
10 dB/div Log

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

Span 19.00 MHz #Sweep 1.000 s (1001 pts)



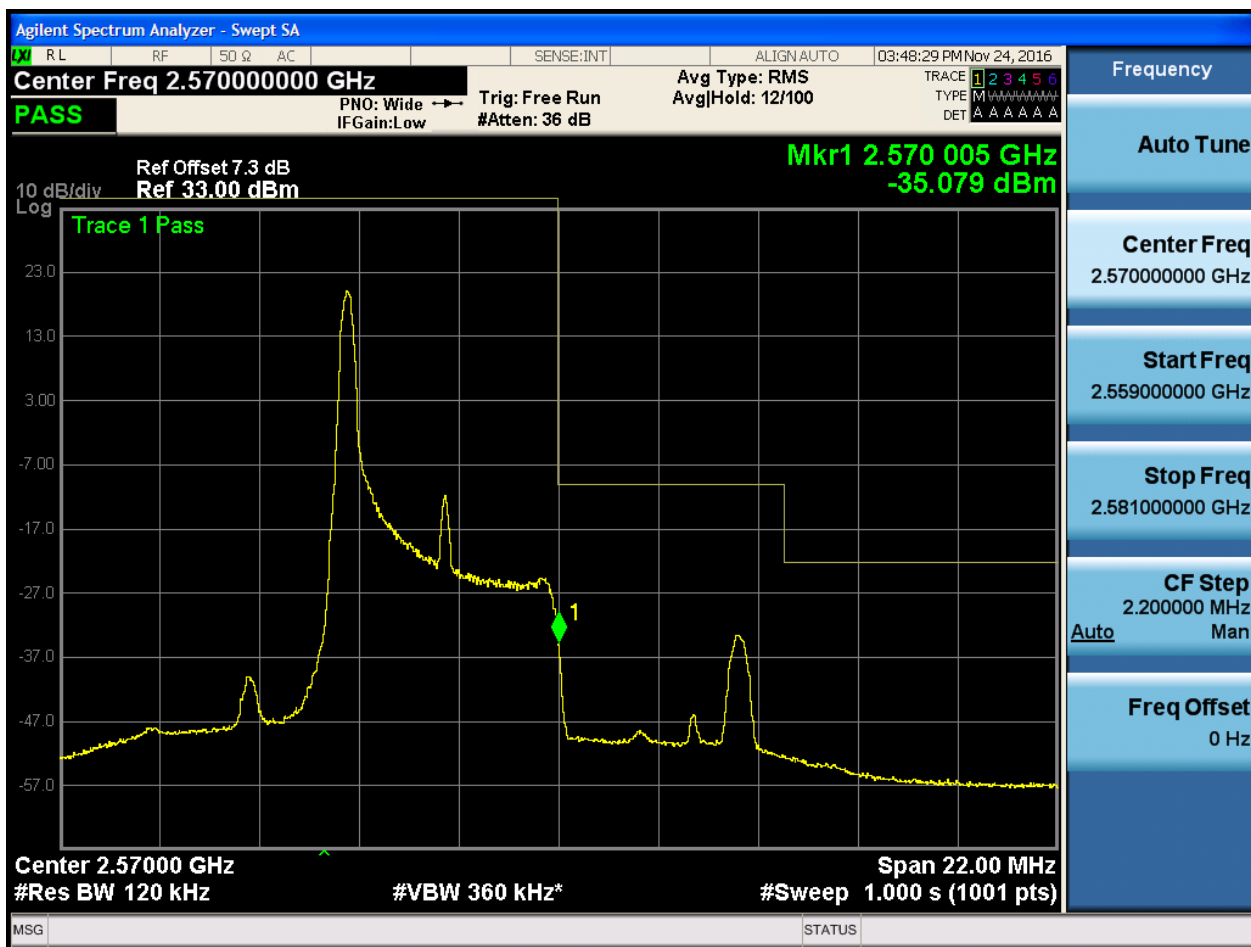
5.2.1.1.1.3 Test RB = RB12#6



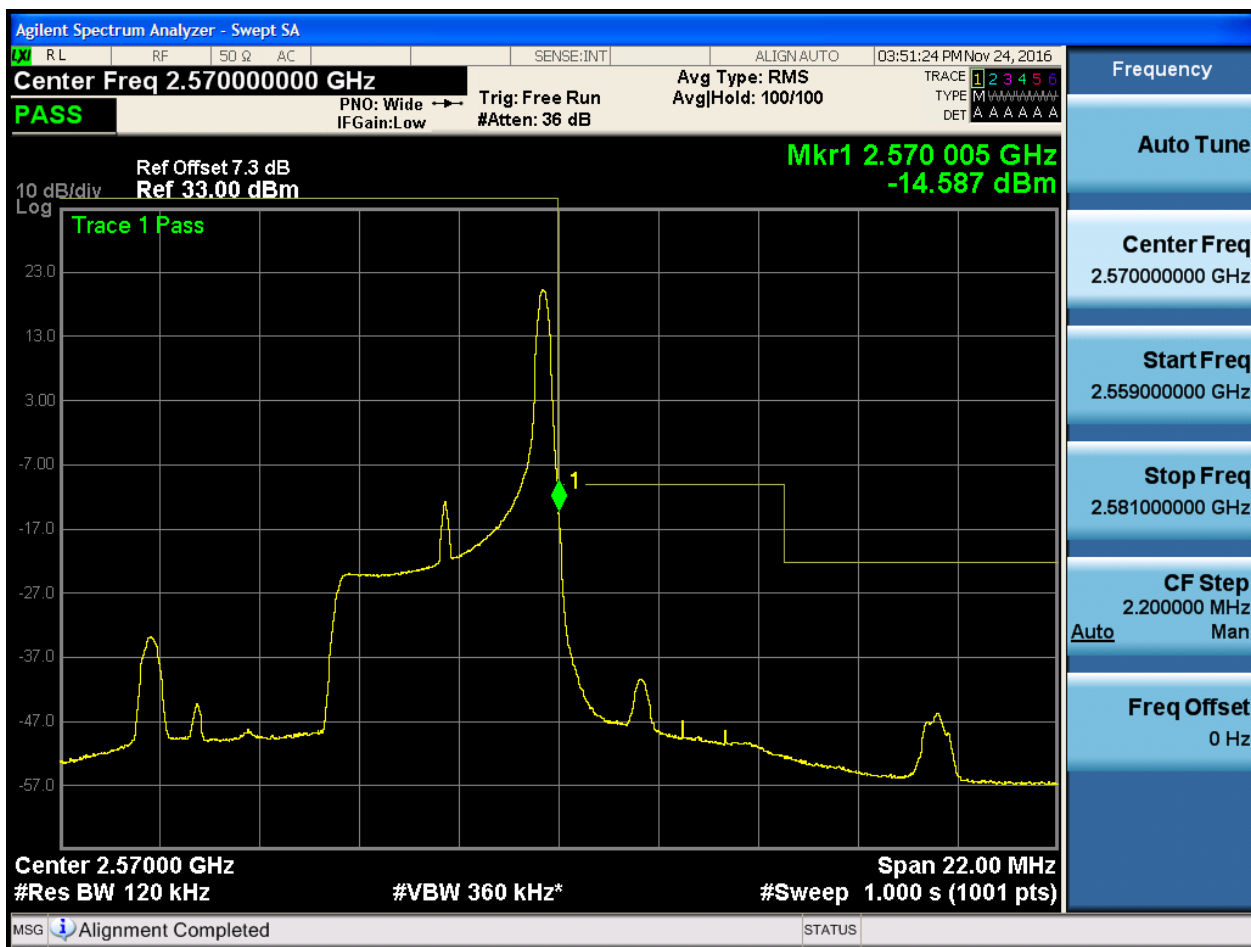
[illegible]

5.2.1.1.1.2 Test Channel = HCH

5.2.1.1.1.2.1 Test RB = RB1#0

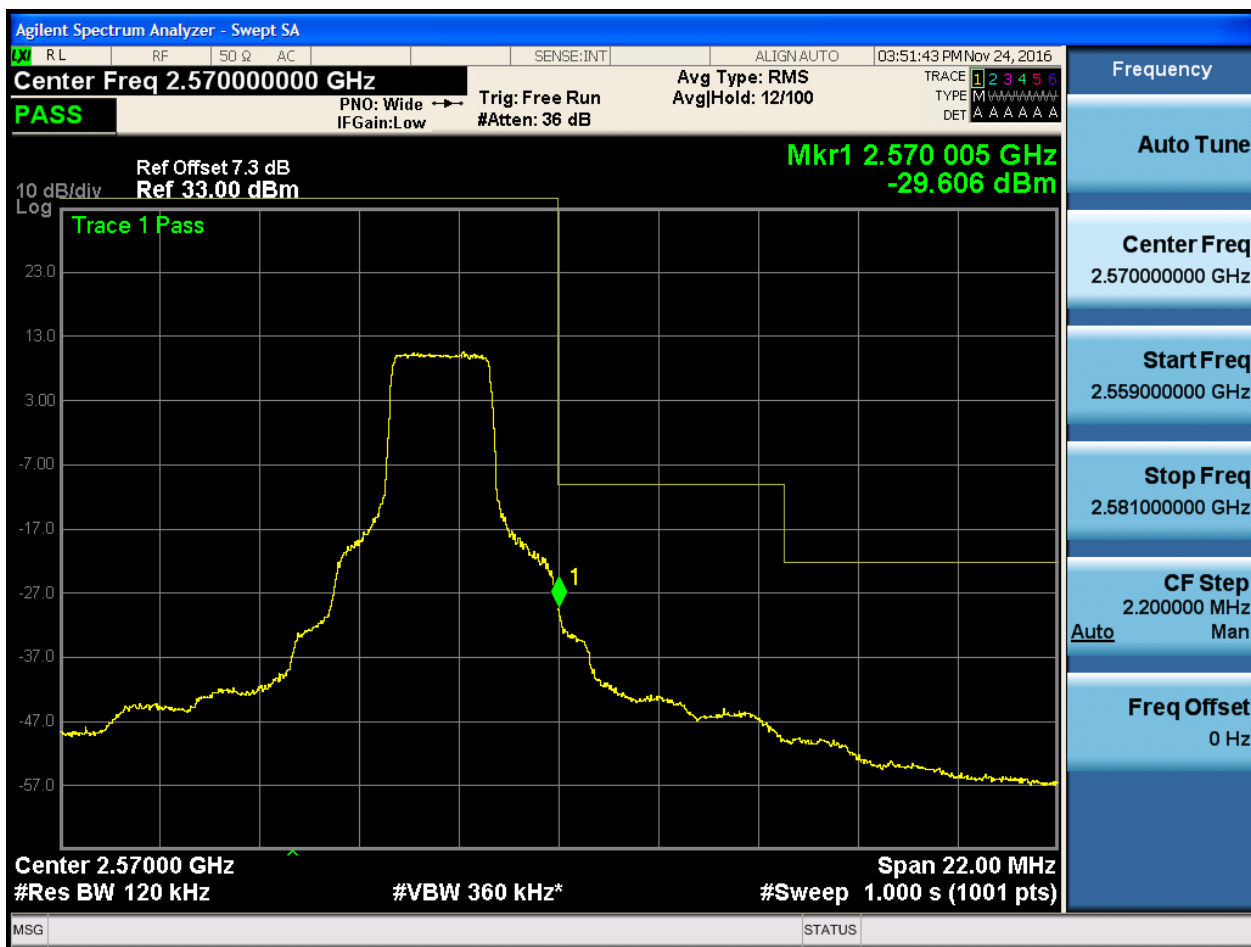


5.2.1.1.1.2.2 Test RB = RB1#24





5.2.1.1.1.2.3 Test RB = RB12#6





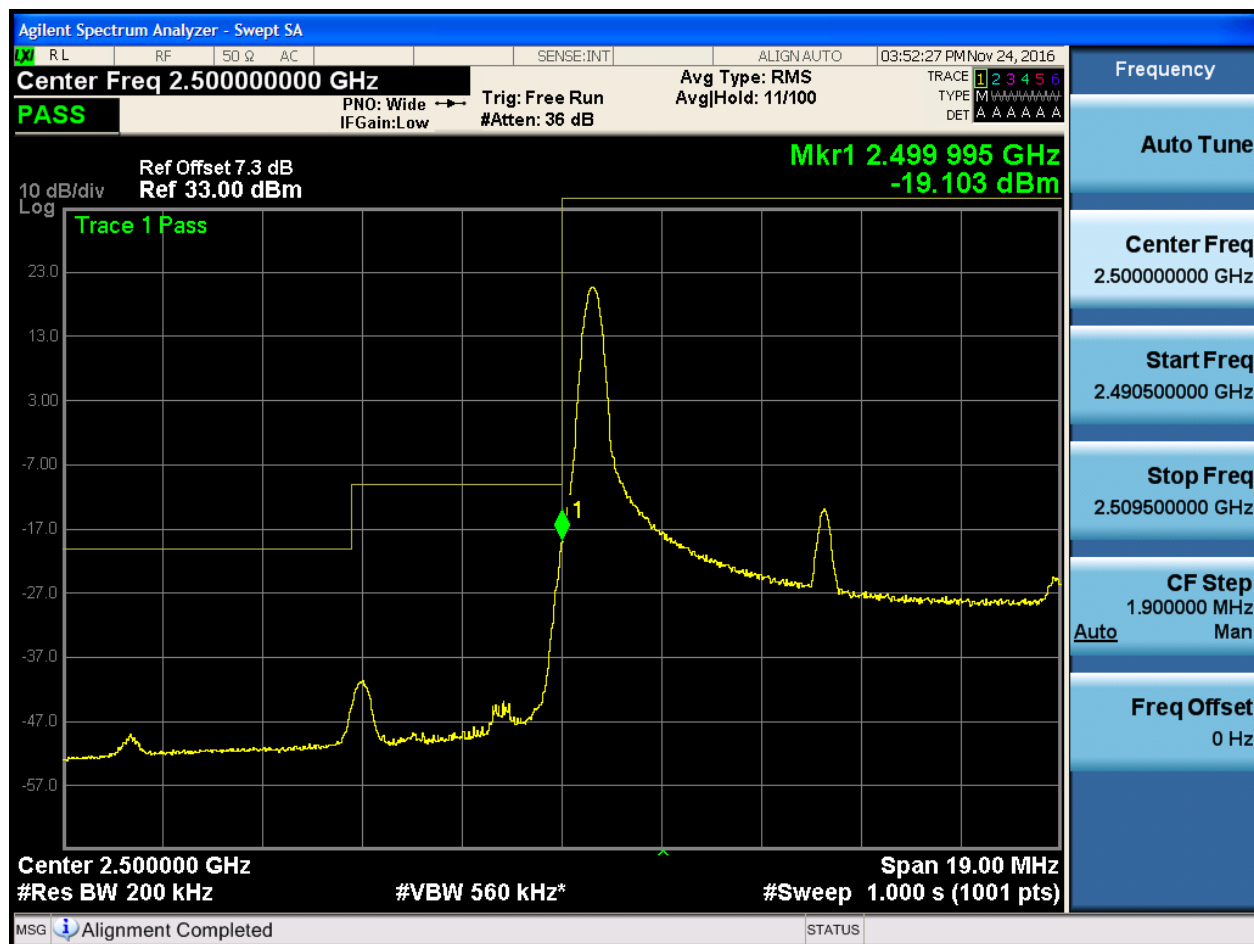
5.2.1.1.1.2.4 Test RB = RB25#0



5.2.1.1.2 Test Bandwidth = 10

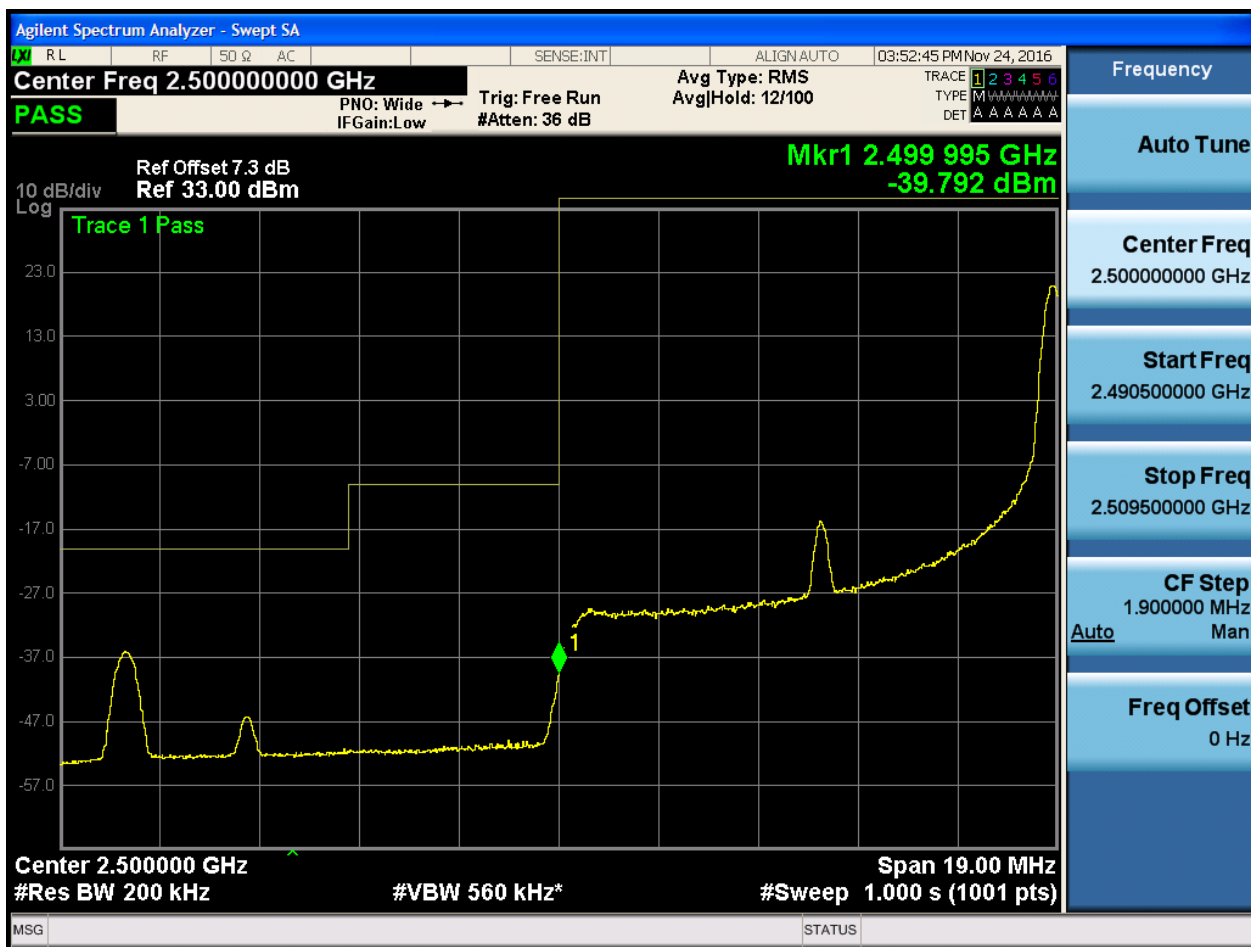
5.2.1.1.2.1 Test Channel = LCH

5.2.1.1.2.1.1 Test RB = RB1#0



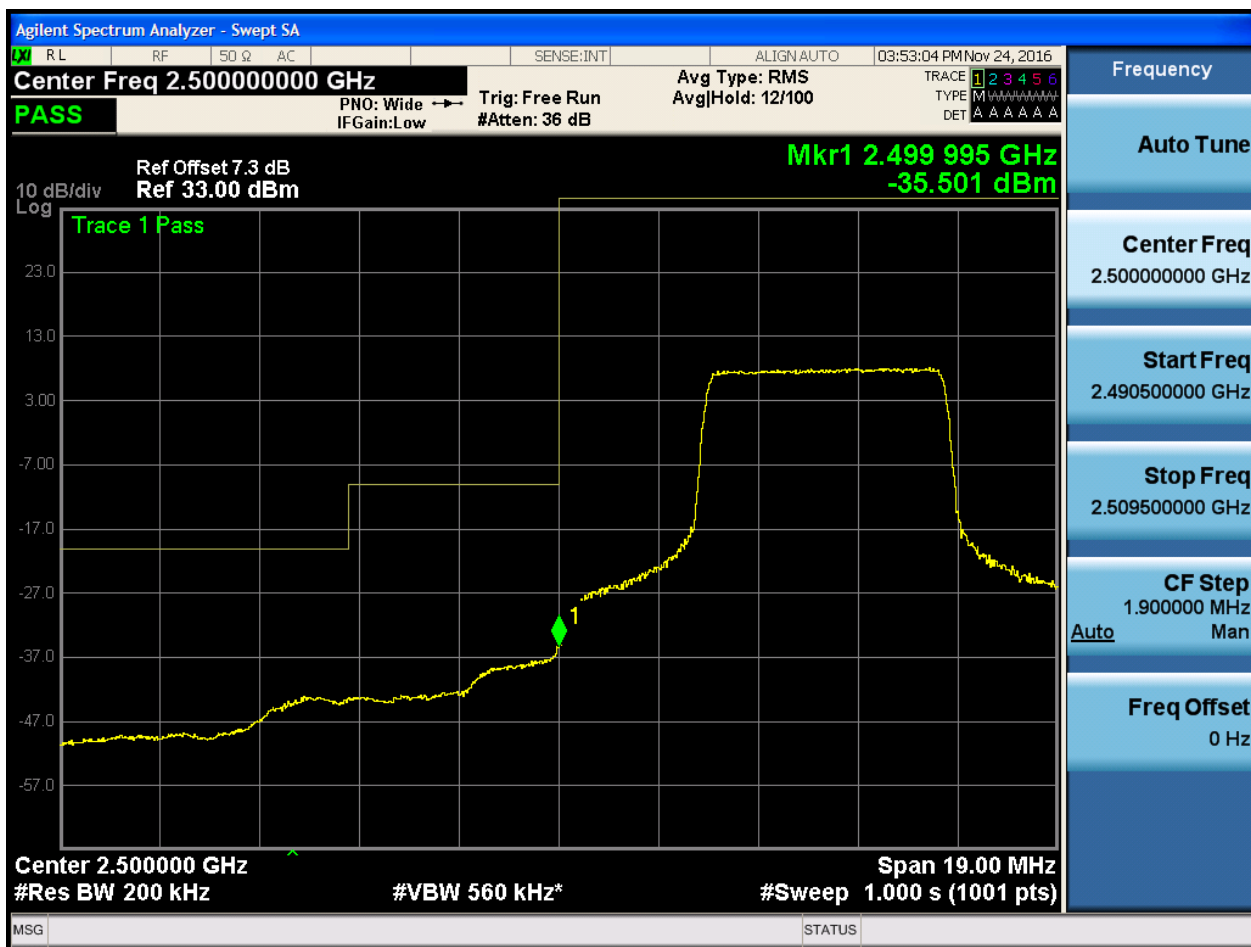


5.2.1.1.2.1.2 Test RB = RB1#49



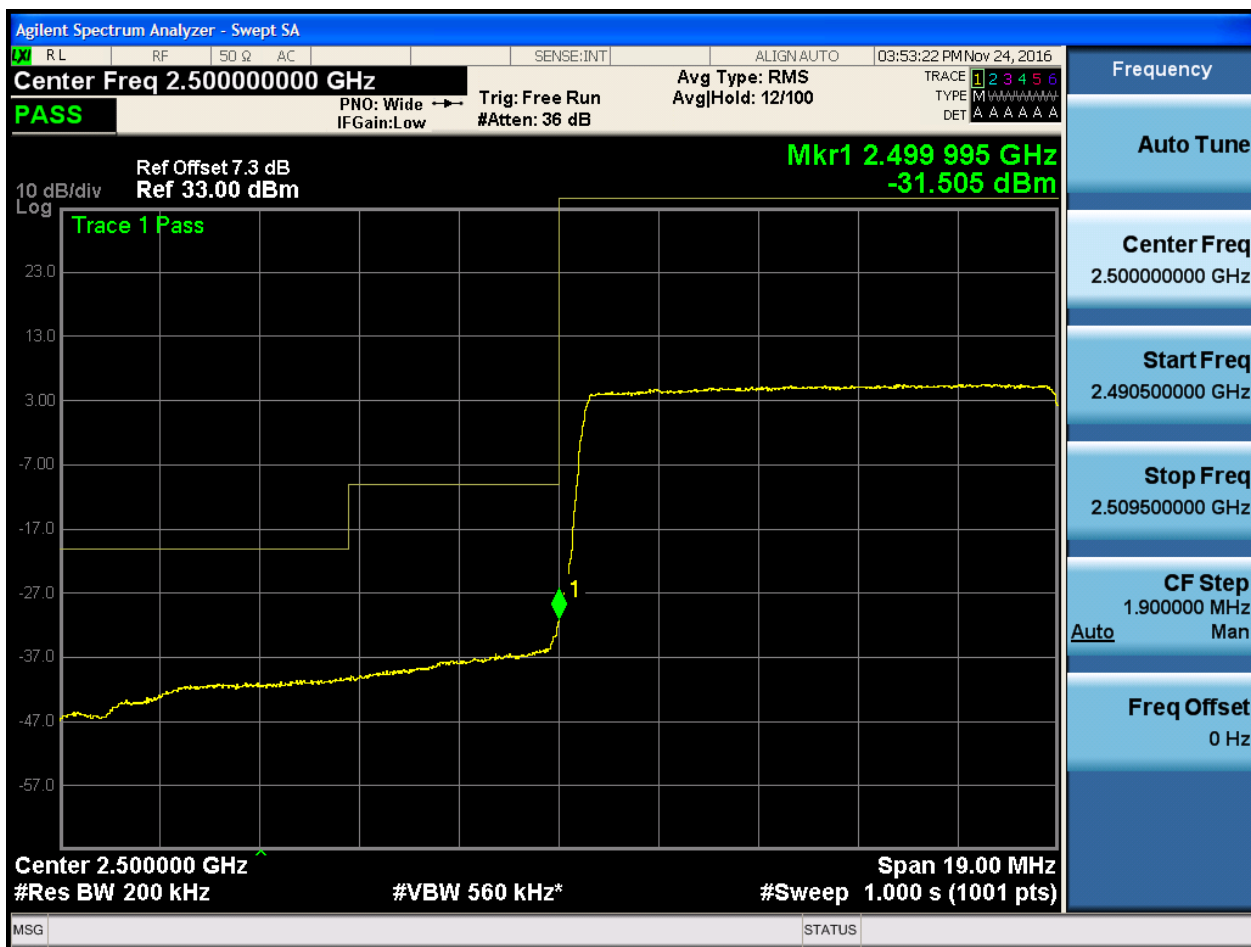


5.2.1.1.2.1.3 Test RB = RB25#13





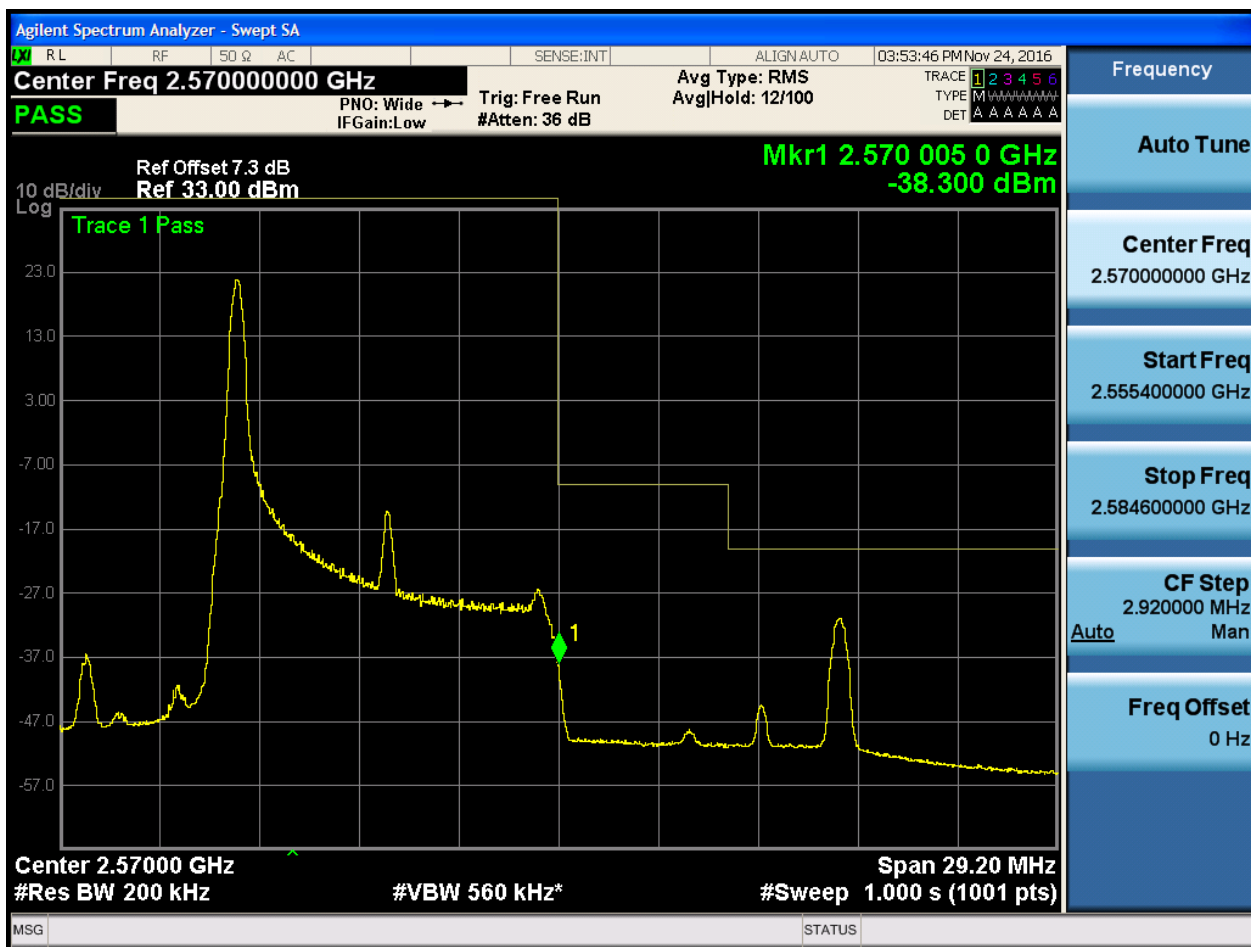
5.2.1.1.2.1.4 Test RB = RB50#0



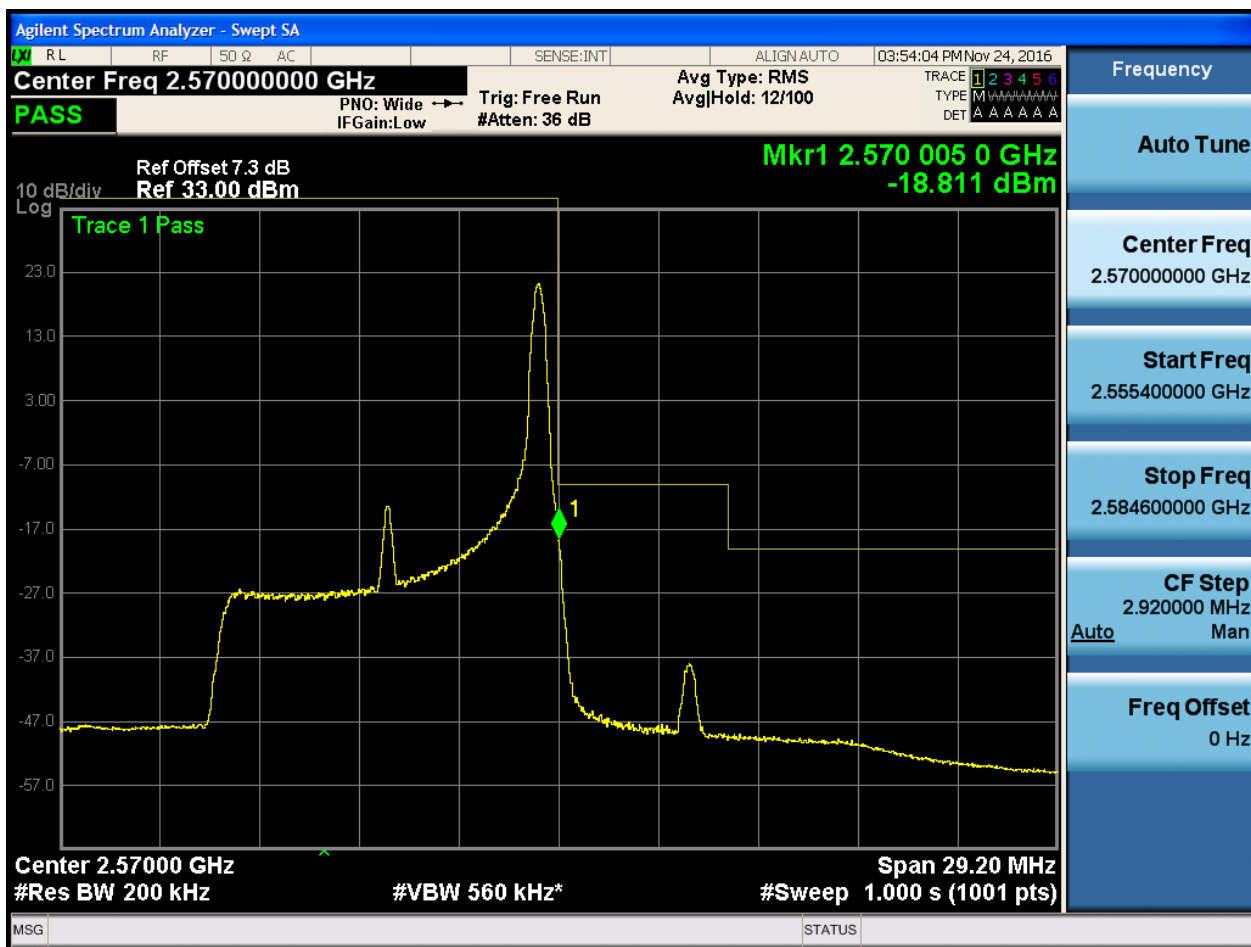


5.2.1.1.2.2 Test Channel = HCH

5.2.1.1.2.2.1 Test RB = RB1#0



5.2.1.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:54:23 PM Nov 24, 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 A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 005 0 GHz
-30.608 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 200 kHz #VBW 560 kHz* Span 29.20 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.555400000 GHz

Stop Freq
2.584600000 GHz

CF Step
2.920000 MHz
Auto Man

Freq Offset
0 Hz



5.2.1.1.2.2.4 Test RB = RB50#0

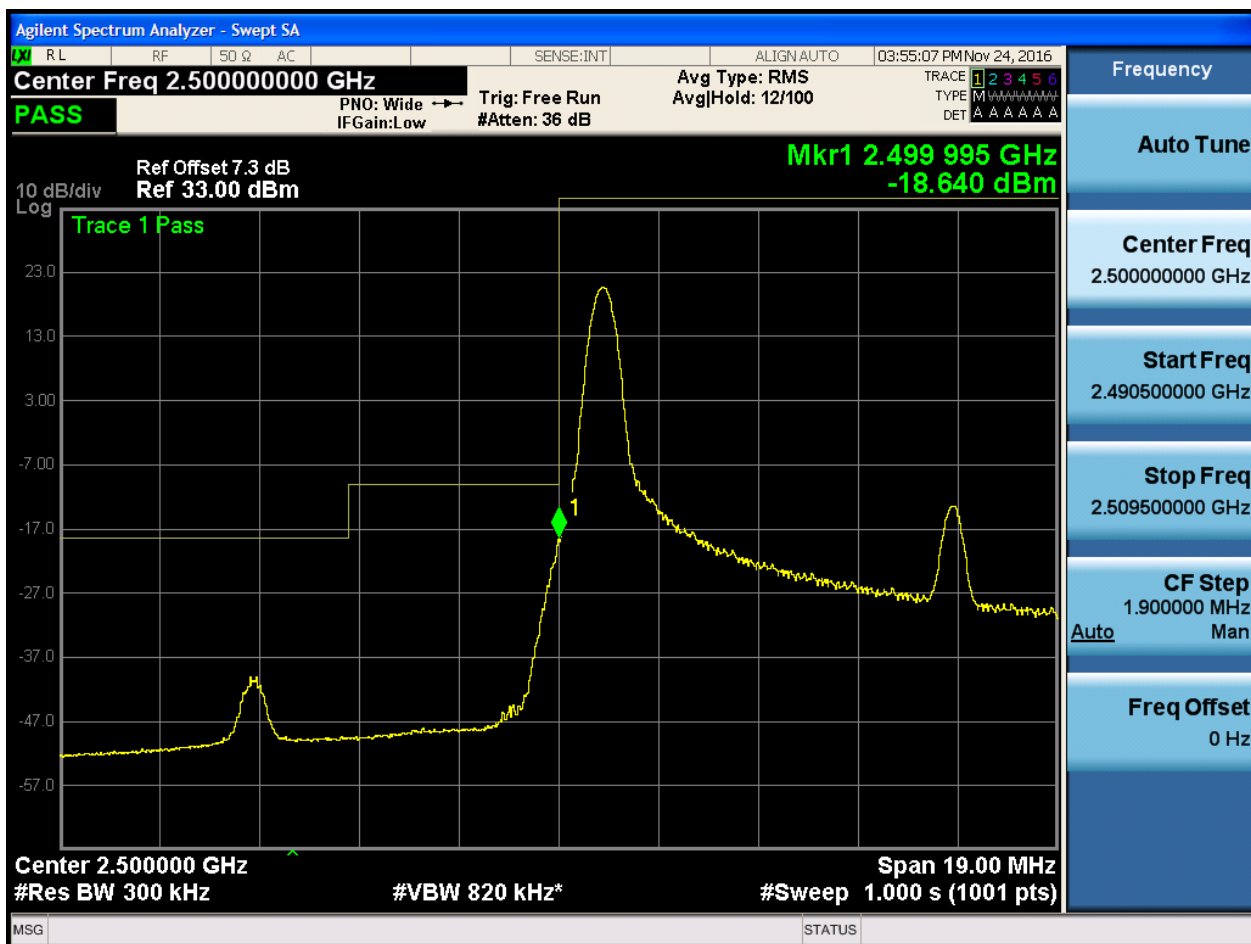




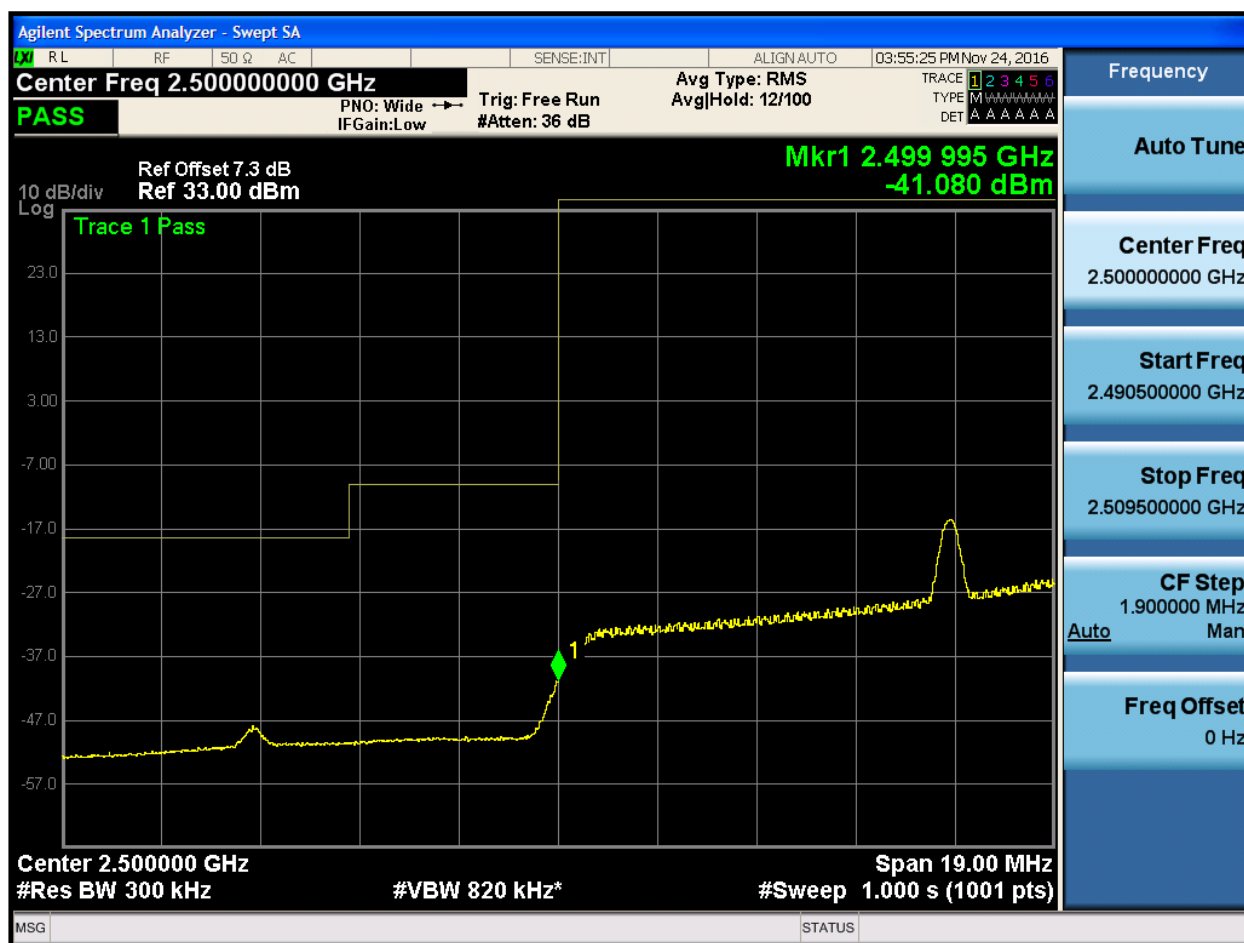
5.2.1.1.3 Test Bandwidth = 15

5.2.1.1.3.1 Test Channel = LCH

5.2.1.1.3.1.1 Test RB = RB1#0

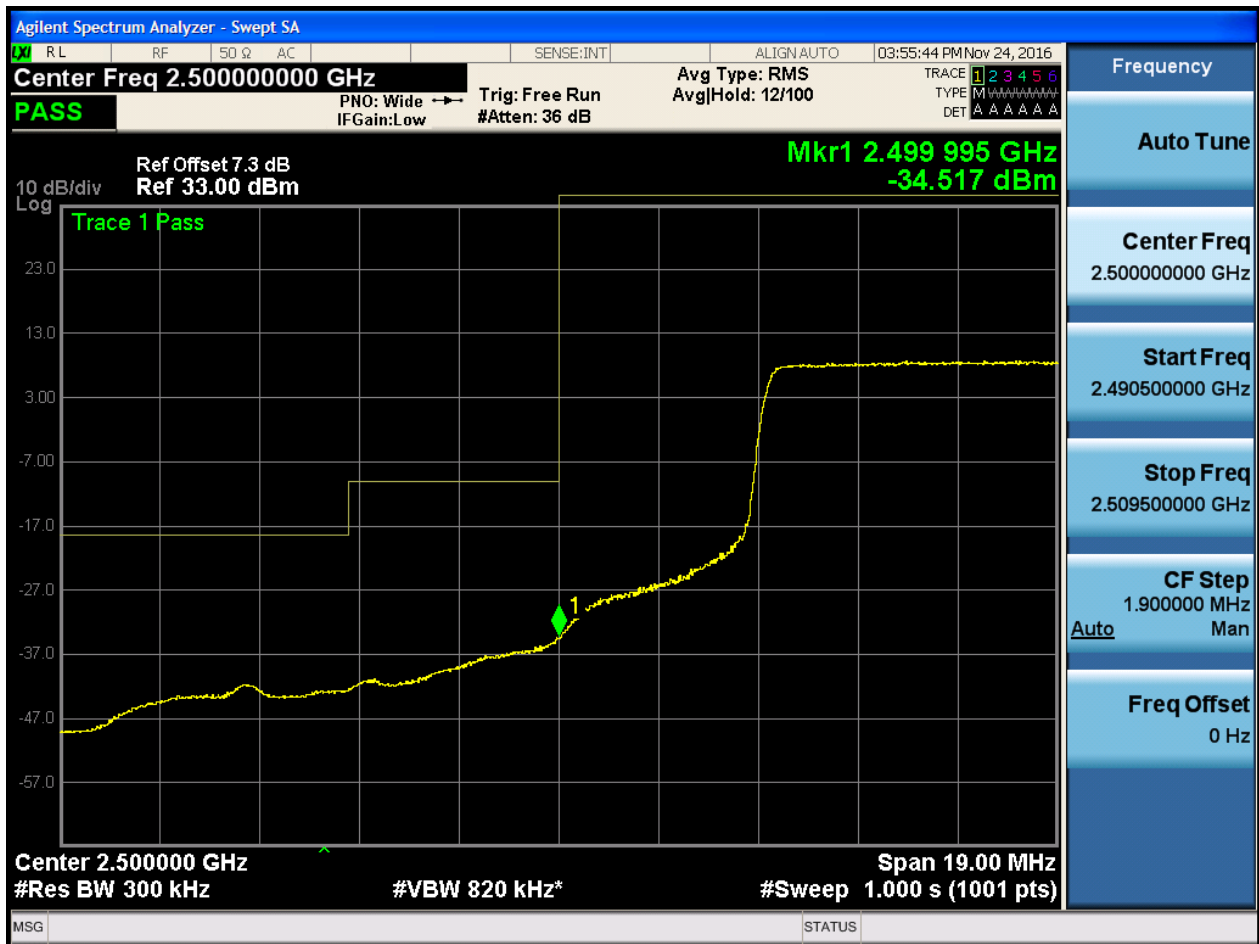


5.2.1.1.3.1.2 Test RB = RB1#74





5.2.1.1.3.1.3 Test RB = RB36#18





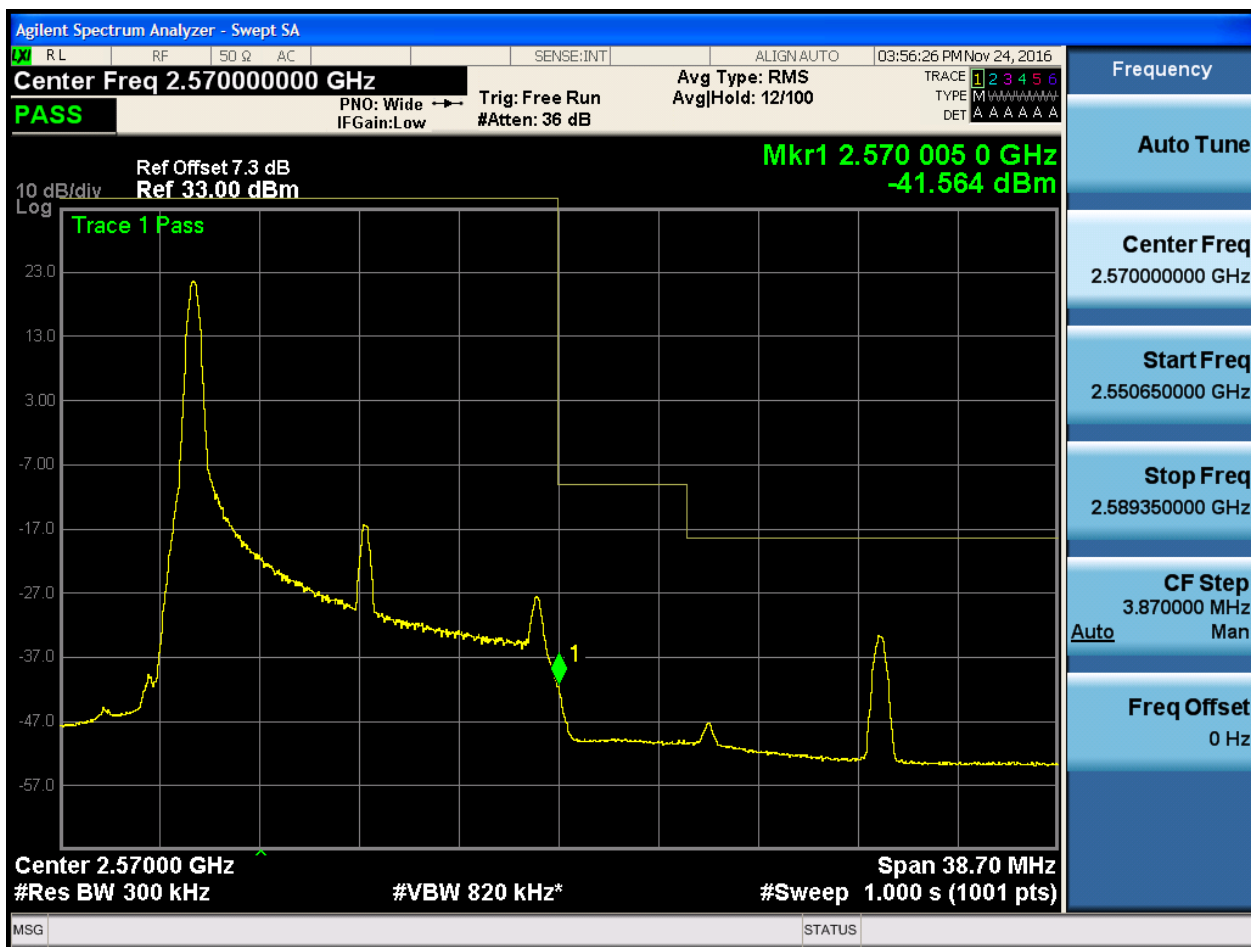
5.2.1.1.3.1.4 Test RB = RB75#0





5.2.1.1.3.2 Test Channel = HCH

5.2.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:56:44 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS
 PASS PNO: Wide Trg: 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 7.3 dB
 Ref 33.00 dBm

Mkr1 2.570 005 0 GHz
 -17.564 dBm

10 dB/div
 Log

Trace 1 Pass

Center 2.57000 GHz
 #Res BW 300 kHz
 #VBW 820 kHz*
 Span 38.70 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
 2.570000000 GHz

Start Freq
 2.550650000 GHz

Stop Freq
 2.589350000 GHz

CF Step
 3.870000 MHz
 Auto Man

Freq Offset
 0 Hz

5.2.1.1.3.2.3 Test RB = RB36#18





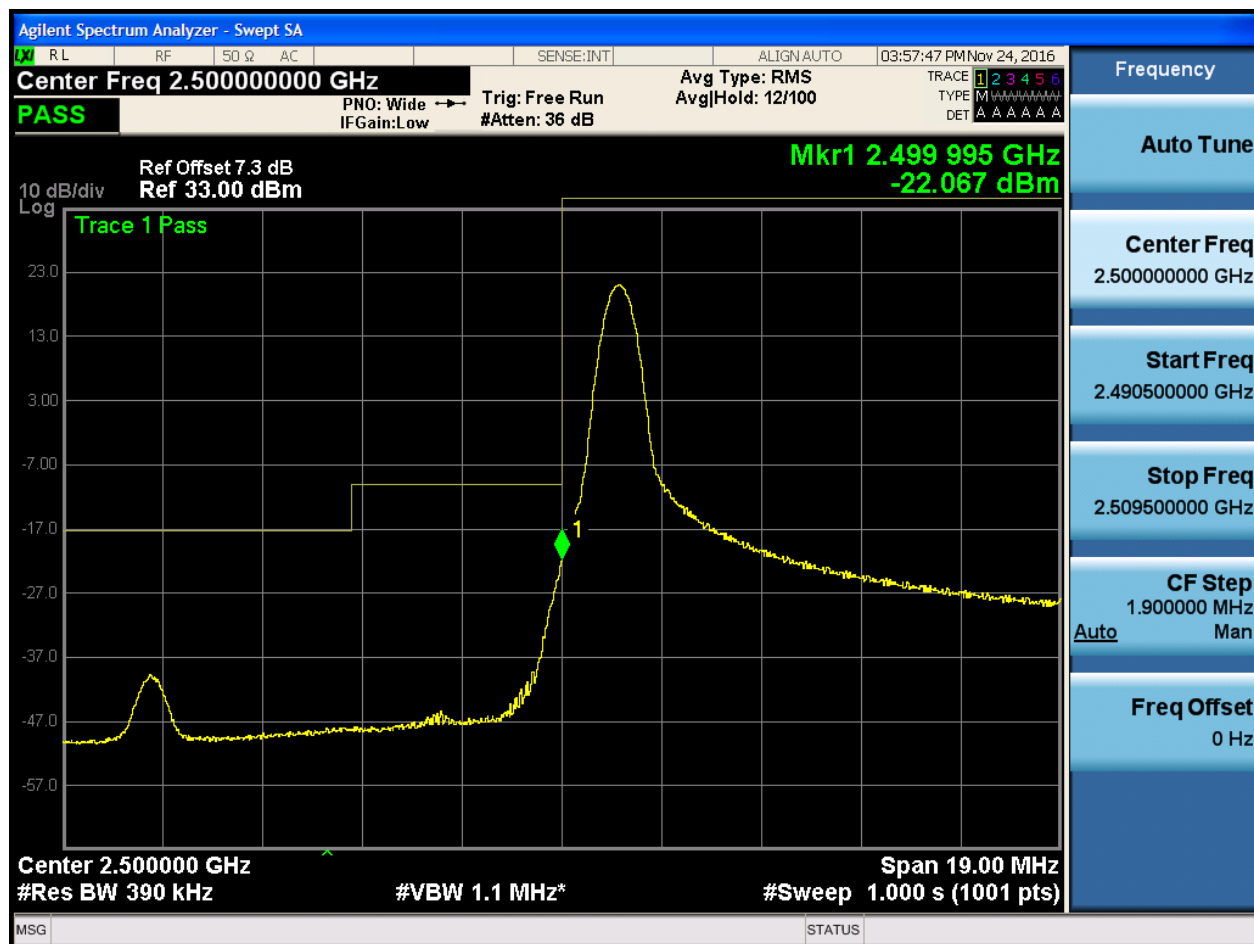
5.2.1.1.3.2.4 Test RB = RB75#0



5.2.1.1.4 Test Bandwidth = 20

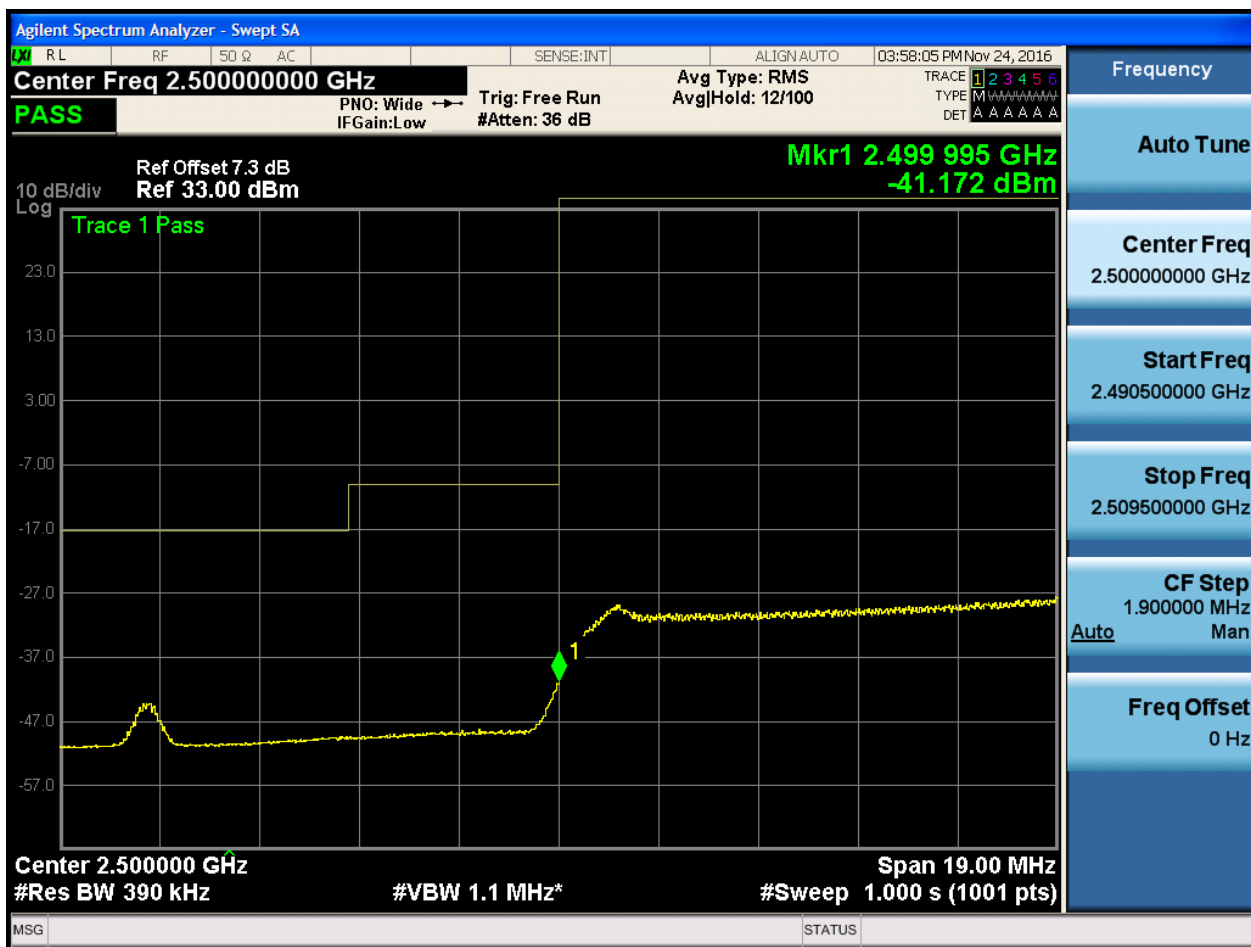
5.2.1.1.4.1 Test Channel = LCH

5.2.1.1.4.1.1 Test RB = RB1#0



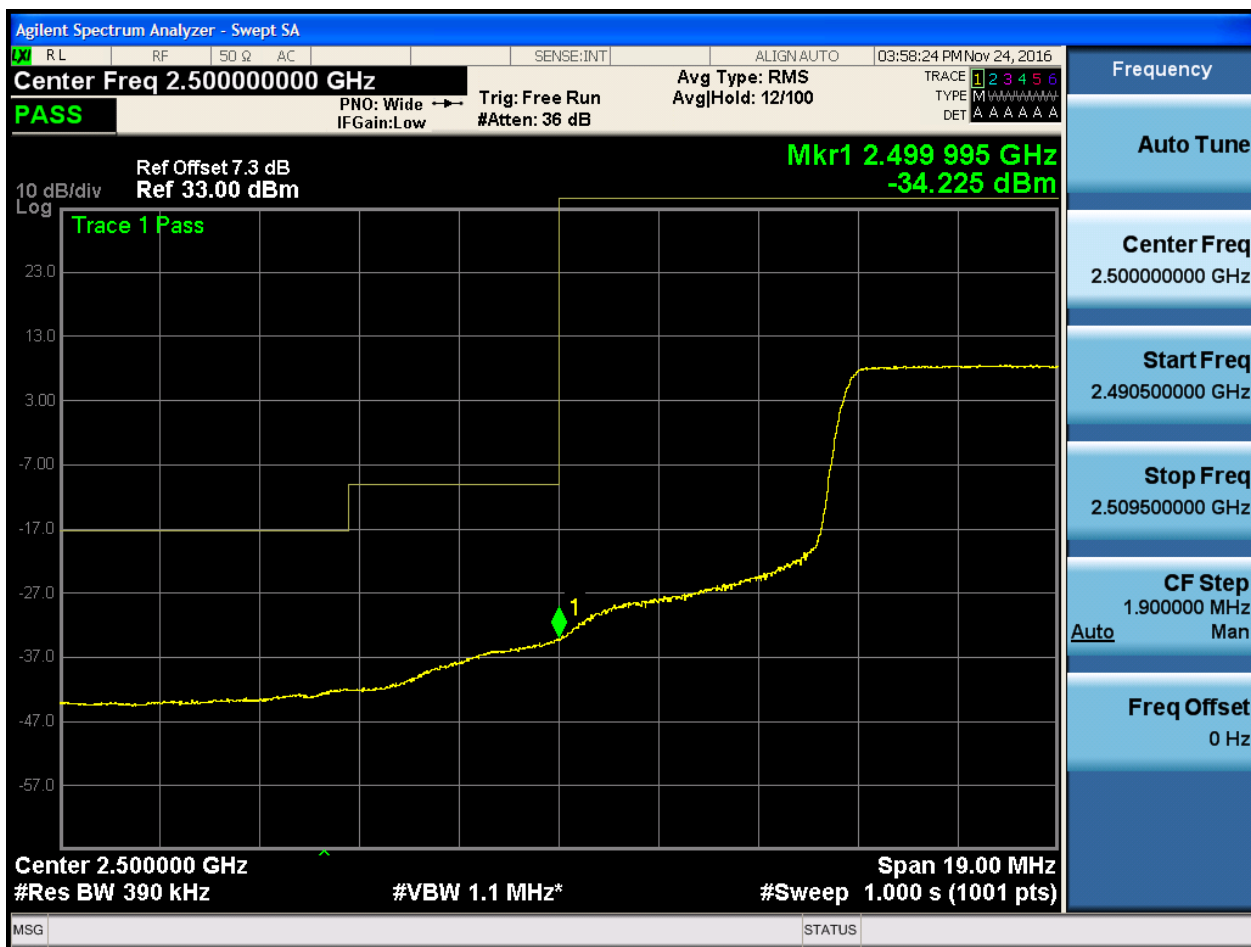


5.2.1.1.4.1.2 Test RB = RB1#99





5.2.1.1.4.1.3 Test RB = RB50#25





5.2.1.1.4.1.4 Test RB = RB100#0



5.2.1.1.4.2 Test Channel = HCH

5.2.1.1.4.2.1 Test RB = RB1#0



[illegible]



5.2.1.1.4.2.3 Test RB = RB50#25





5.2.1.1.4.2.4 Test RB = RB100#0



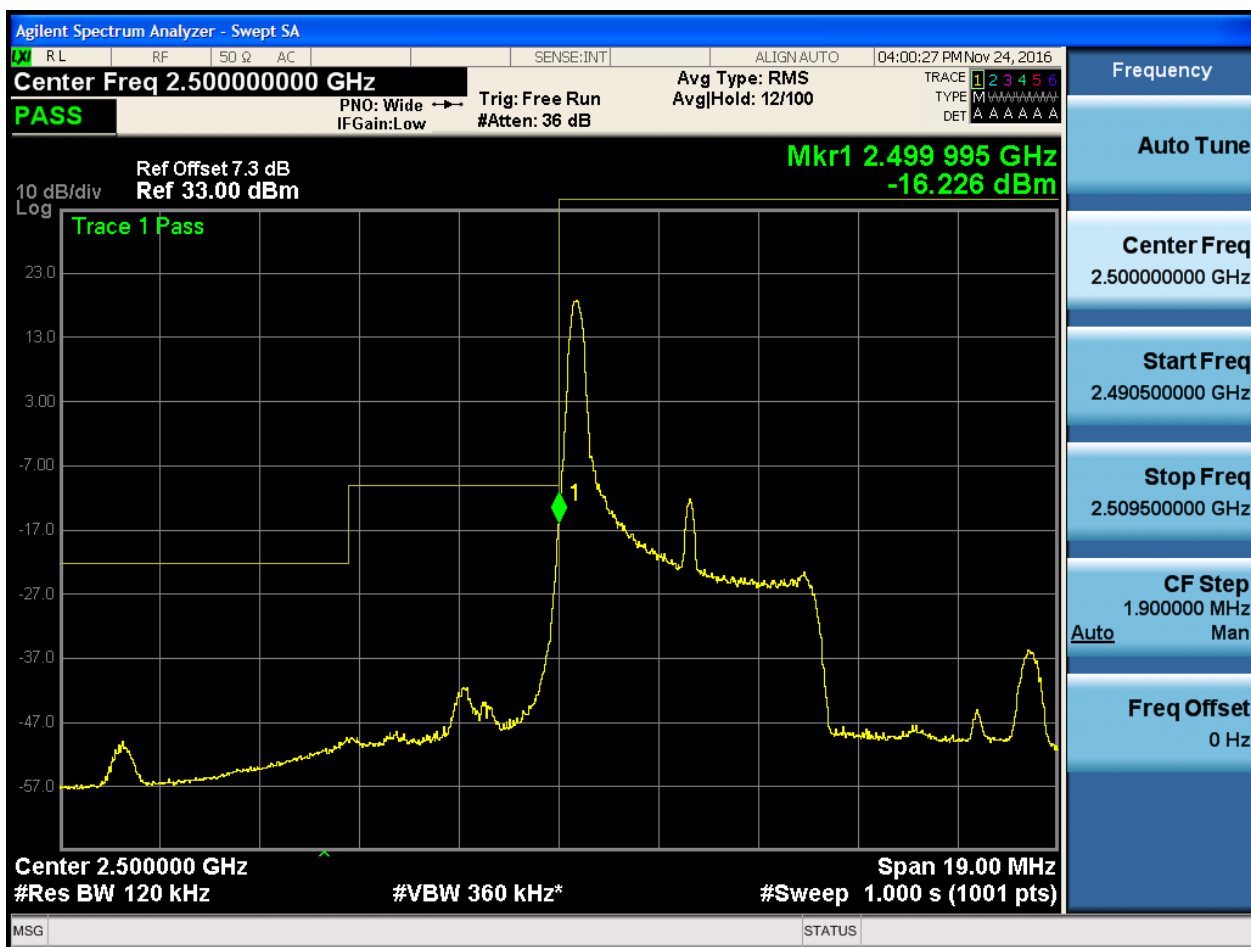


5.2.1.2 Test Mode = LTE/TM2

5.2.1.2.1 Test Bandwidth = 5

5.2.1.2.1.1 Test Channel = LCH

5.2.1.2.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-36.280 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)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

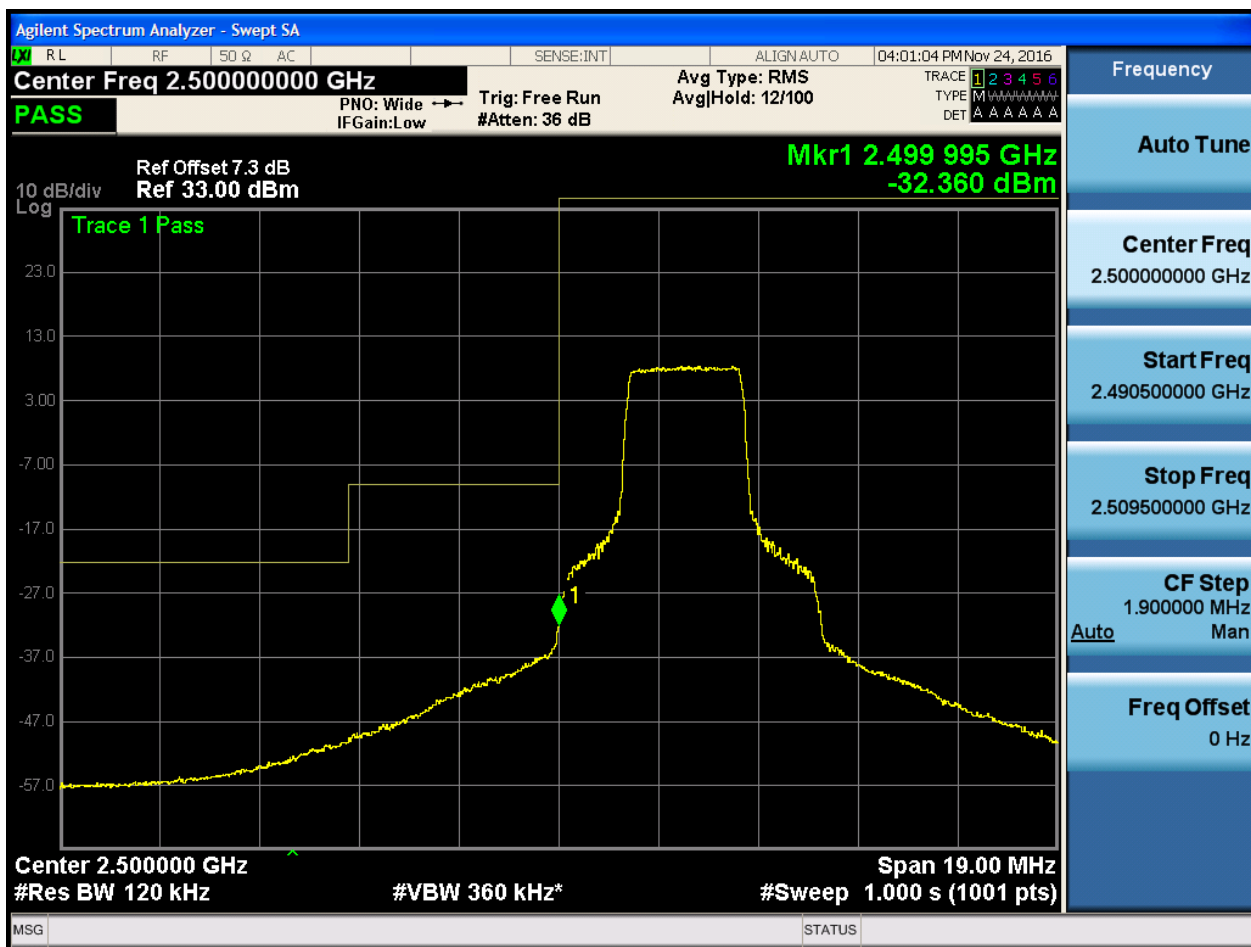
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

MSG

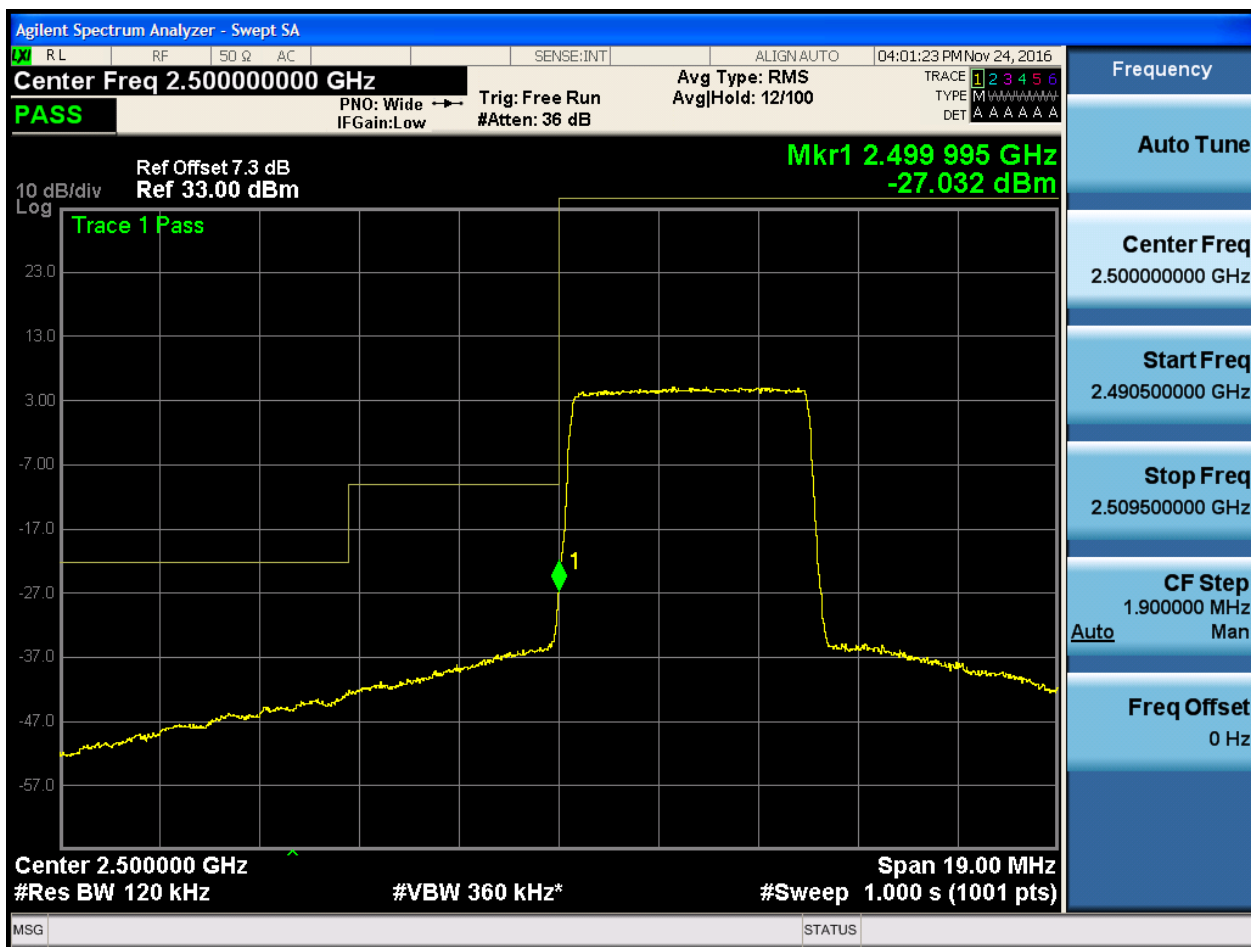
STATUS

5.2.1.2.1.1.3 Test RB = RB12#6



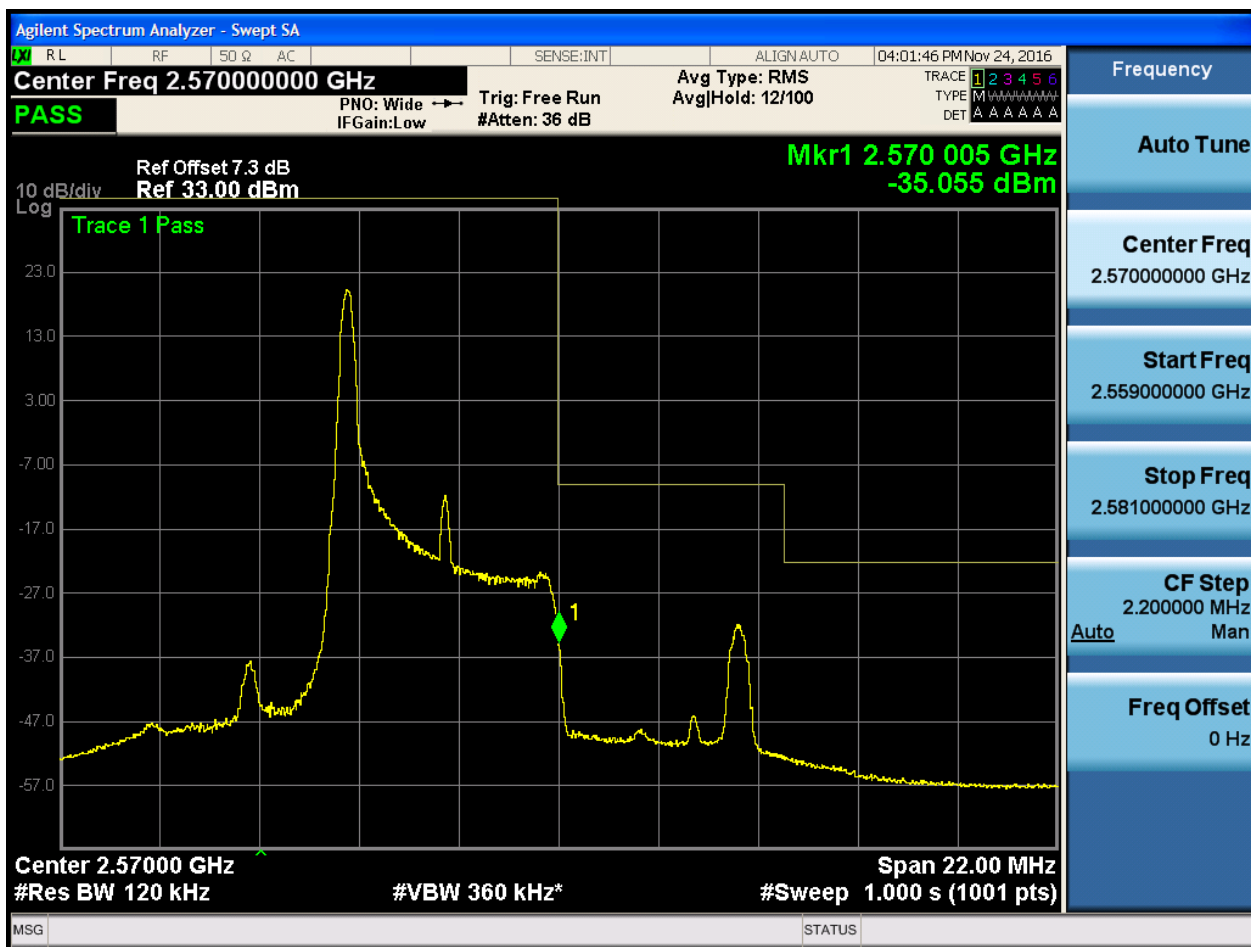


5.2.1.2.1.1.4 Test RB = RB25#0



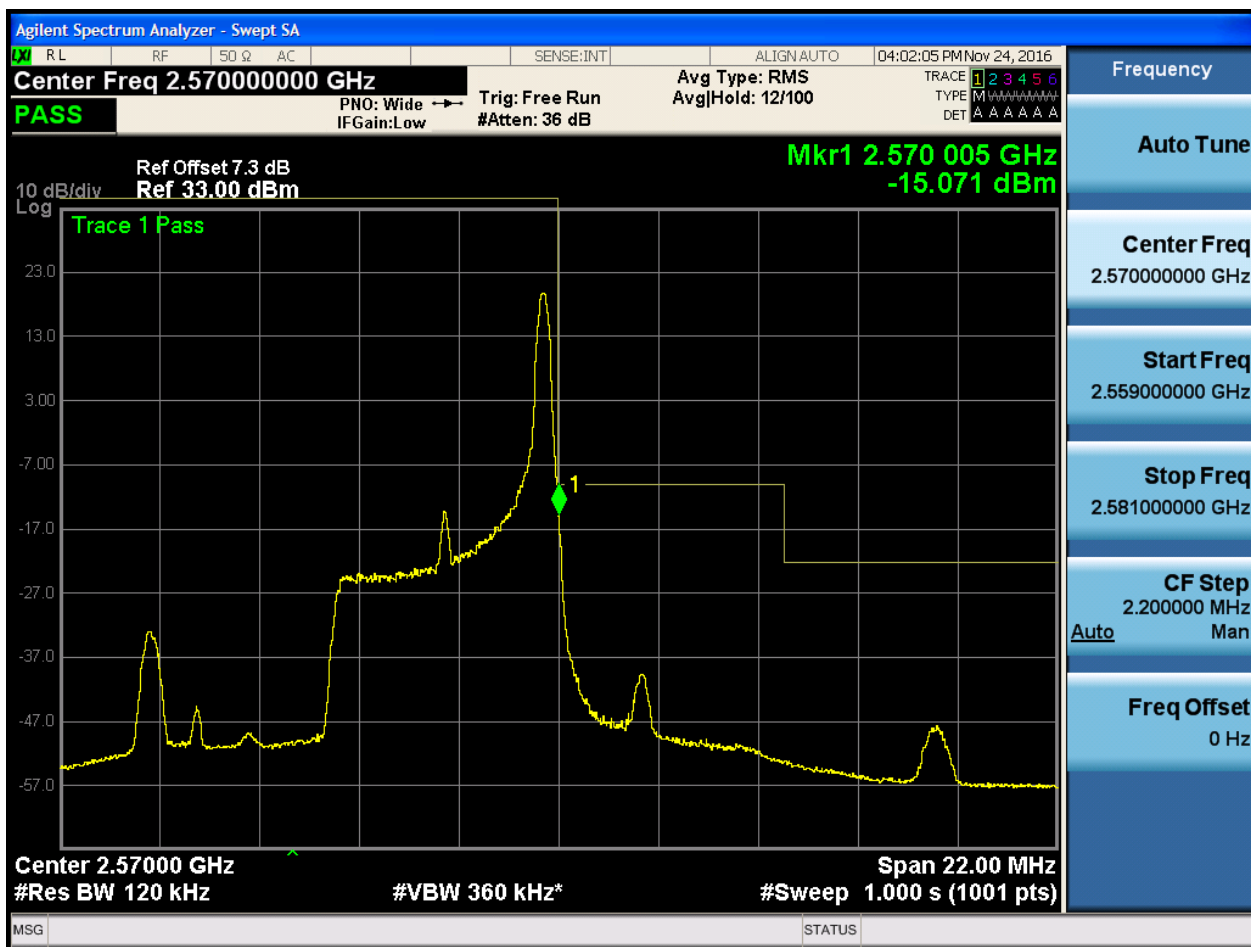
5.2.1.2.1.2 Test Channel = HCH

5.2.1.2.1.2.1 Test RB = RB1#0

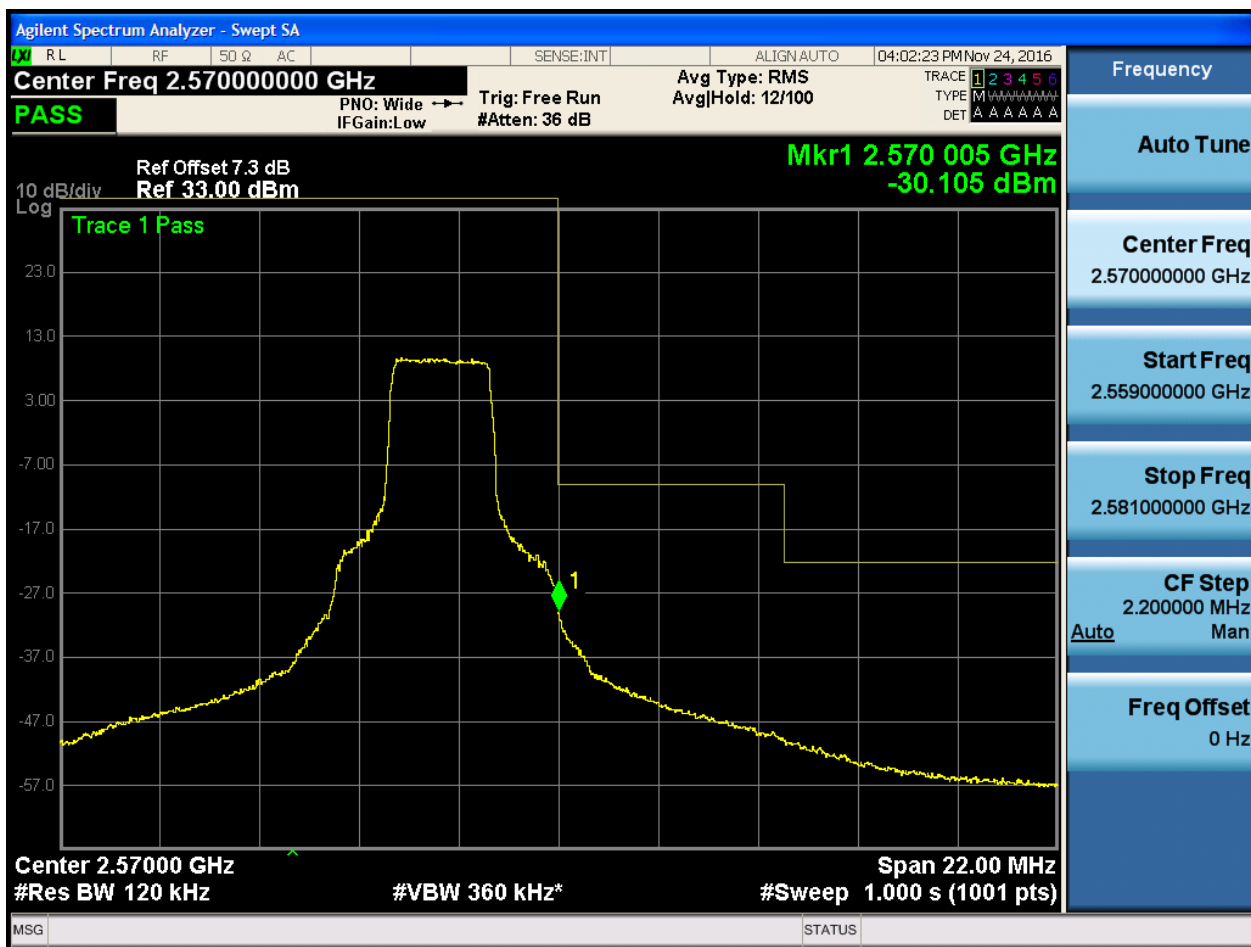




5.2.1.2.1.2.2 Test RB = RB1#24

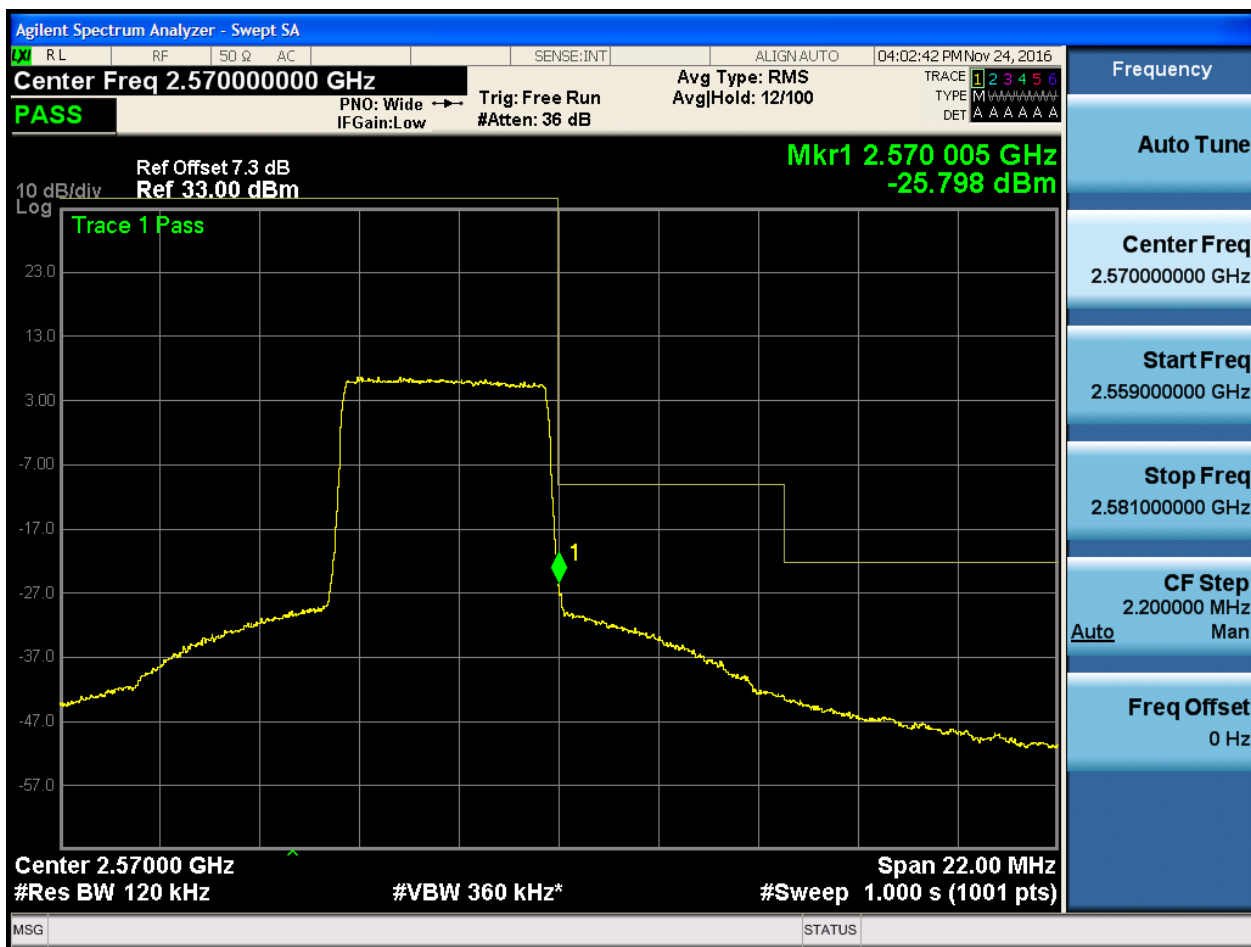


5.2.1.2.1.2.3 Test RB = RB12#6





5.2.1.2.1.2.4 Test RB = RB25#0

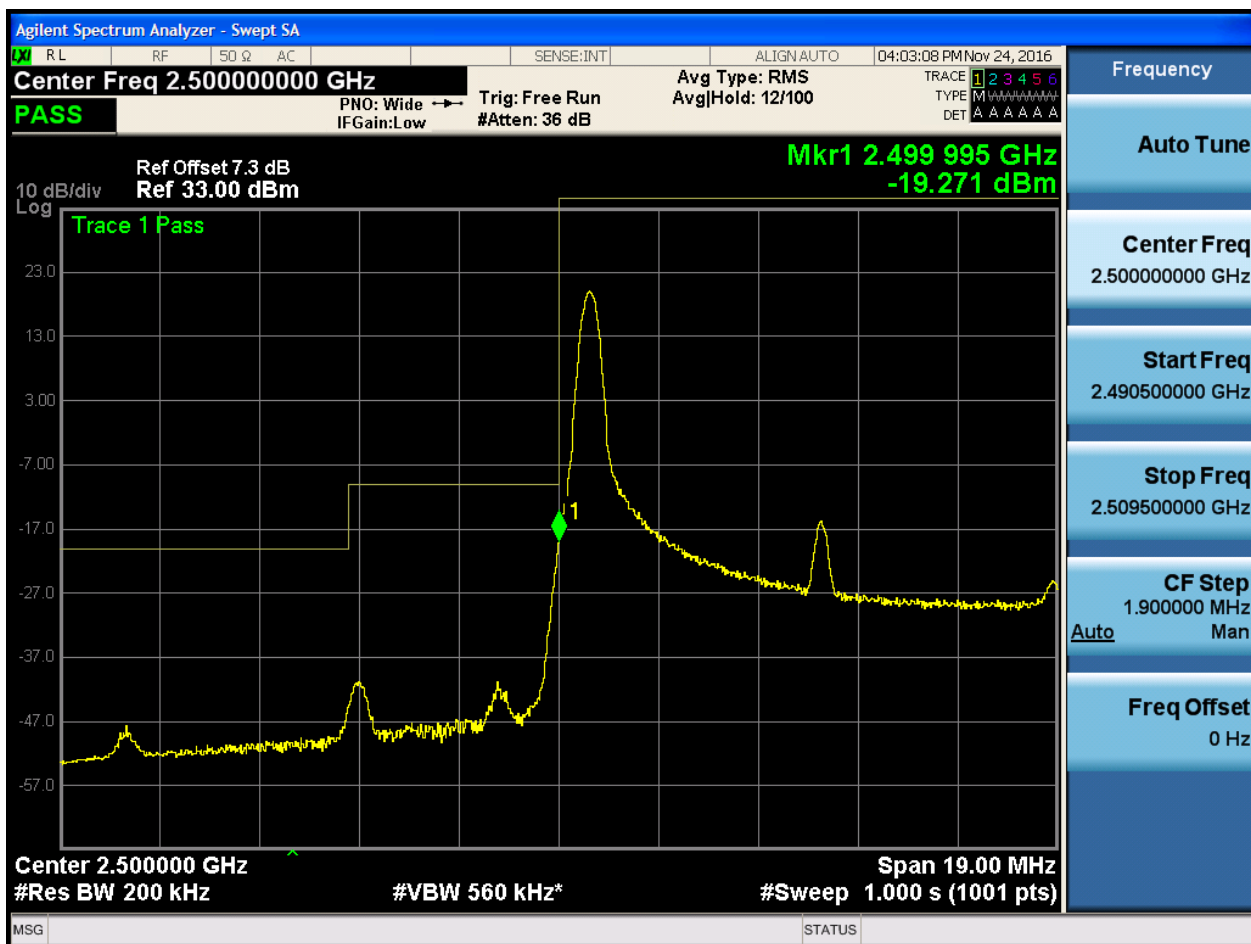




5.2.1.2.2 Test Bandwidth = 10

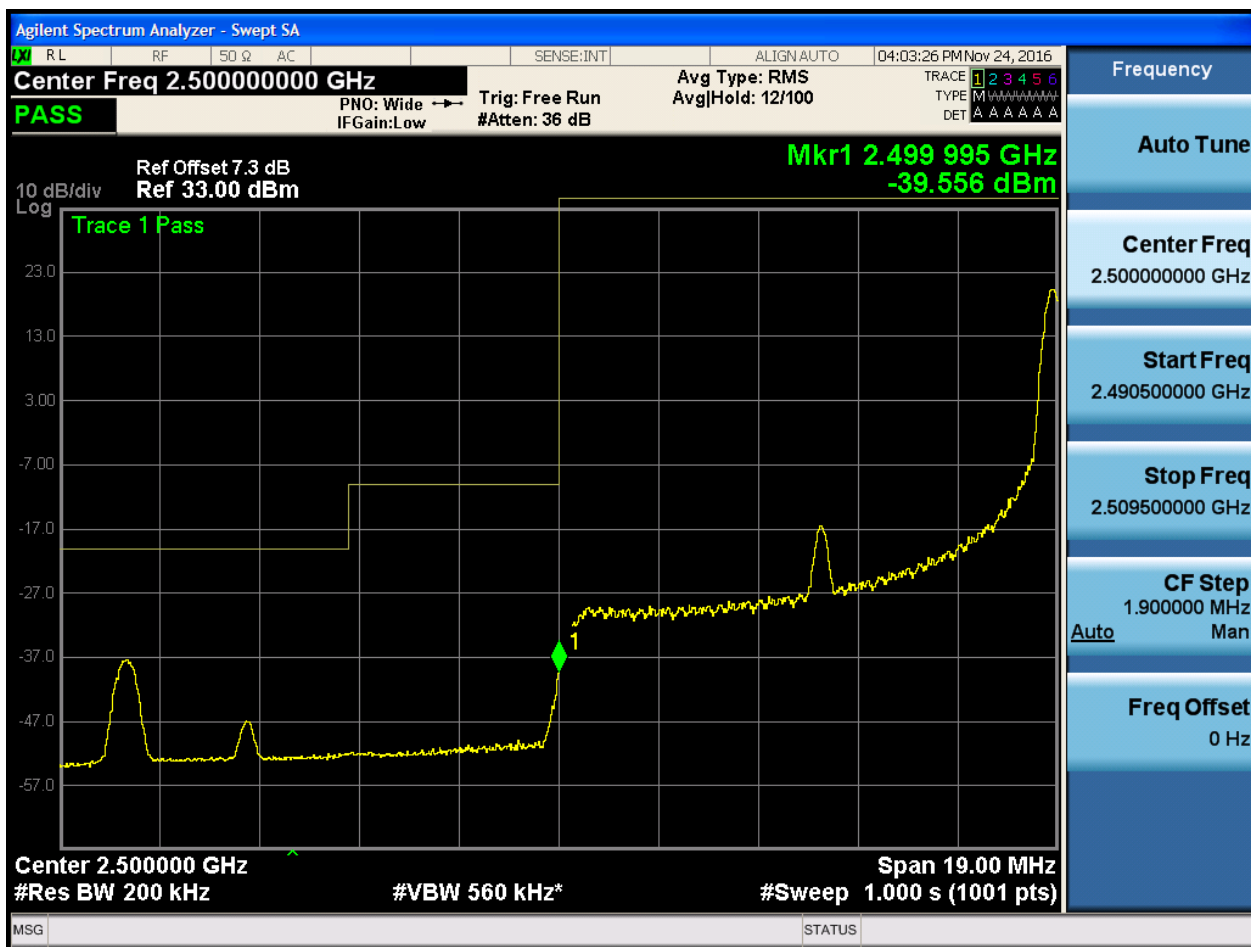
5.2.1.2.2.1 Test Channel = LCH

5.2.1.2.2.1.1 Test RB = RB1#0



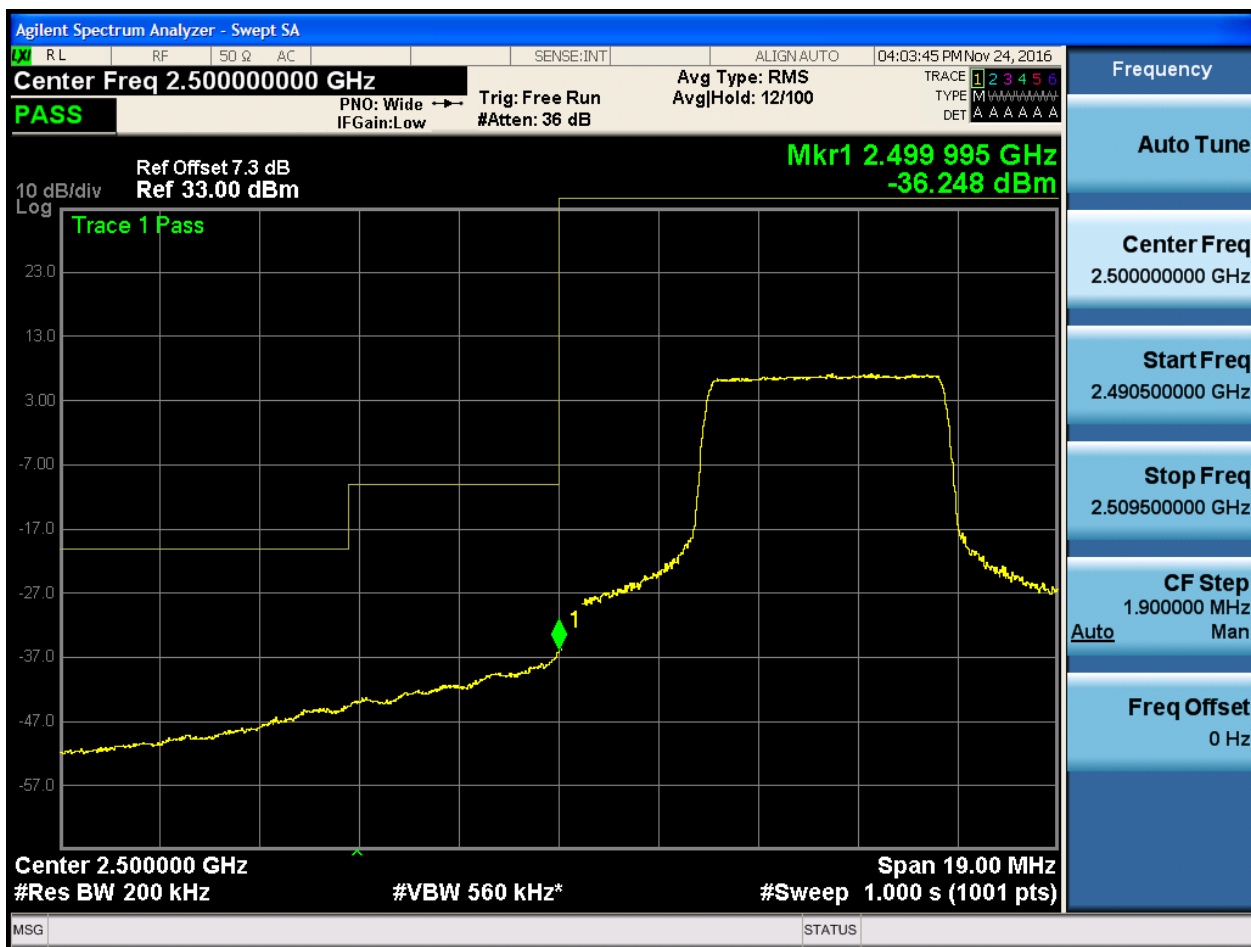


5.2.1.2.2.1.2 Test RB = RB1#49



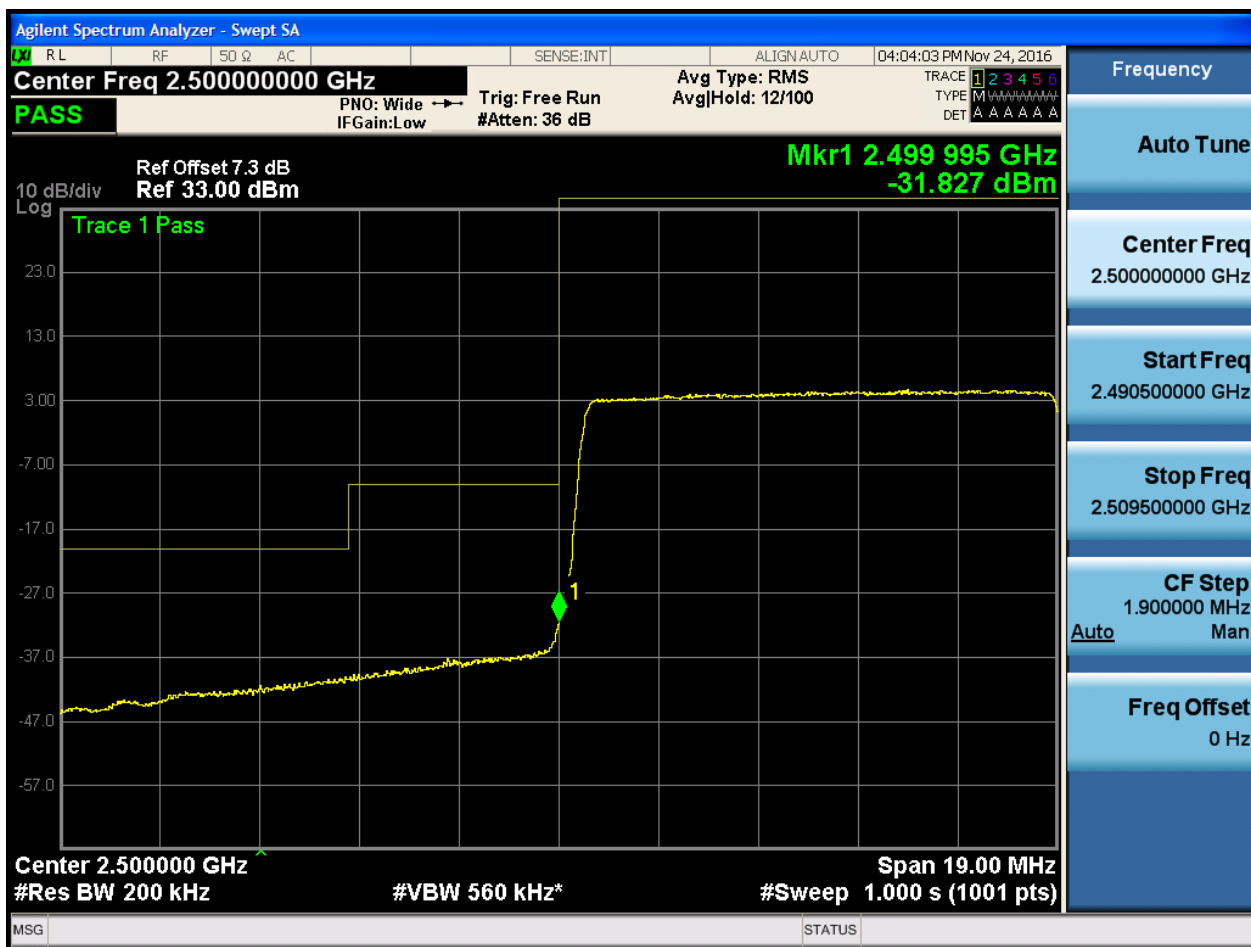


5.2.1.2.2.1.3 Test RB = RB25#13





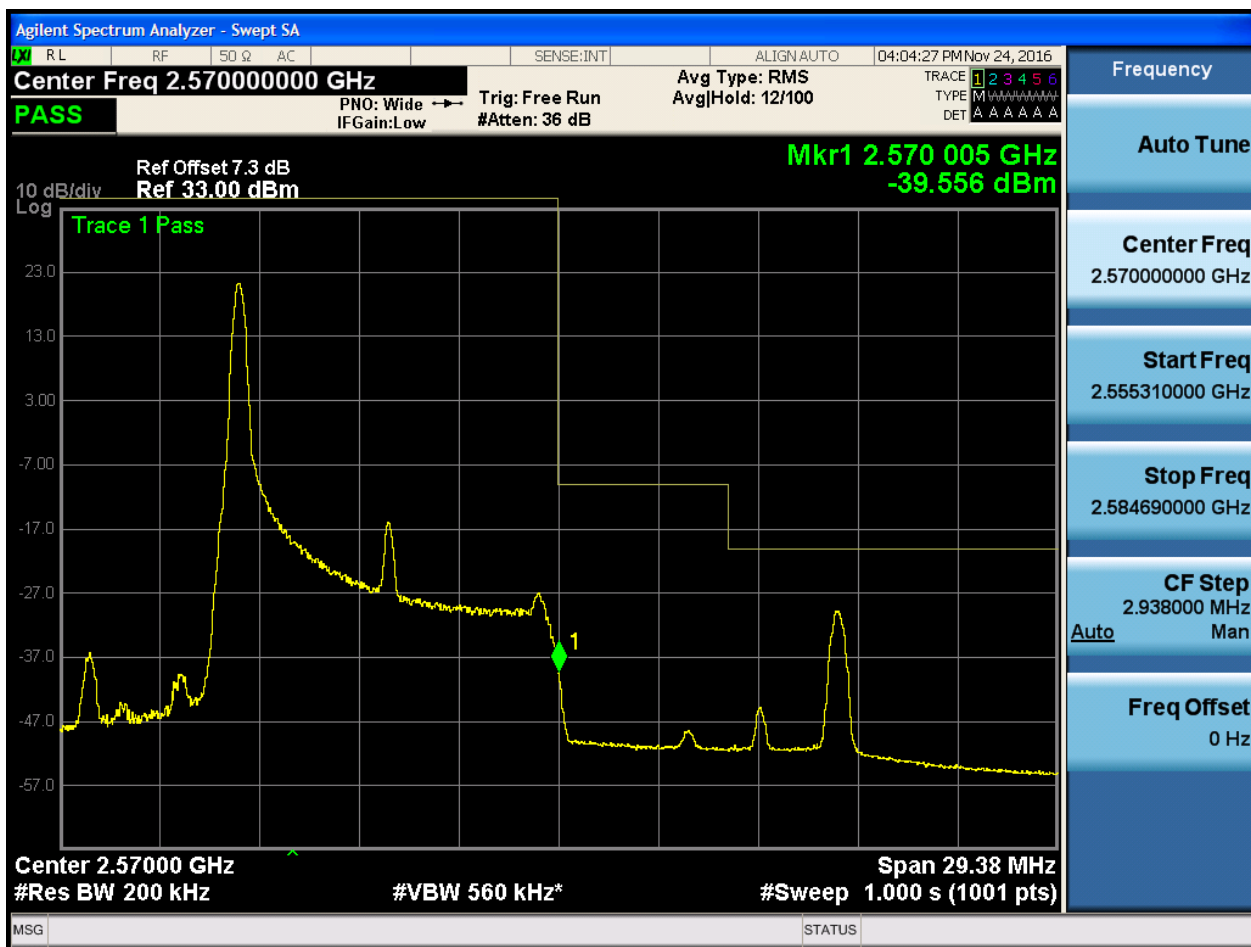
5.2.1.2.2.1.4 Test RB = RB50#0



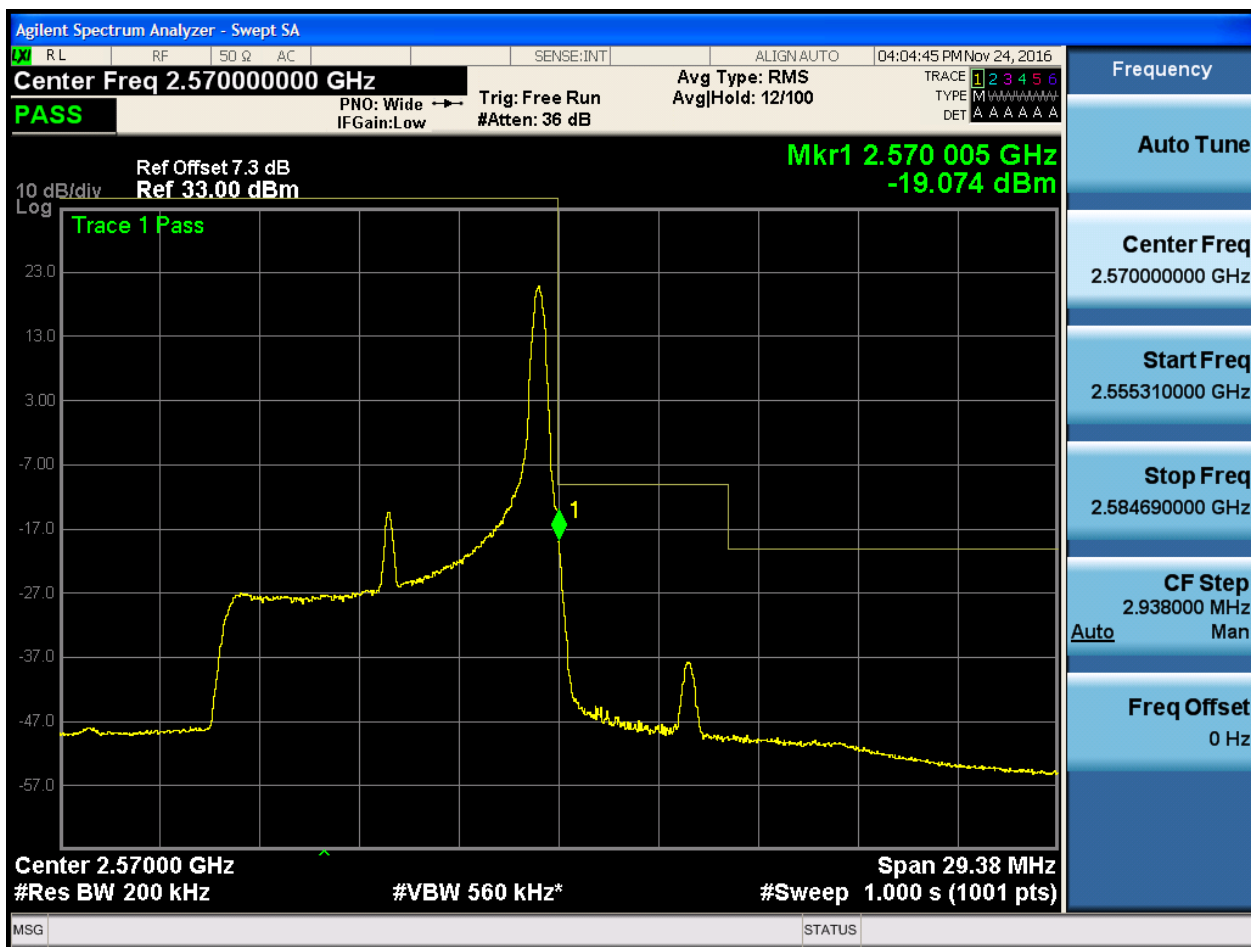


5.2.1.2.2.2 Test Channel = HCH

5.2.1.2.2.2.1 Test RB = RB1#0

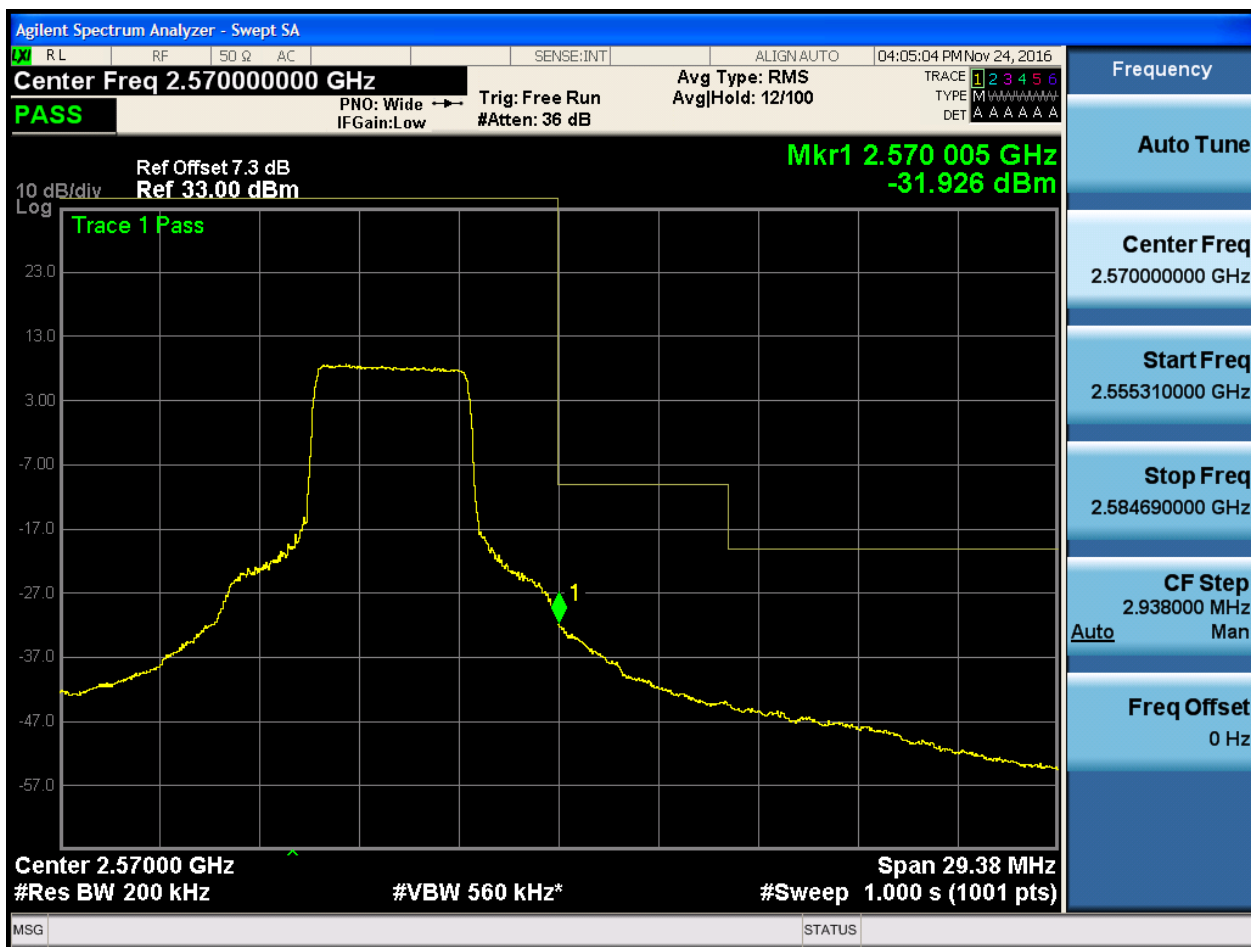


5.2.1.2.2.2.2 Test RB = RB1#49





5.2.1.2.2.3 Test RB = RB25#13





5.2.1.2.2.4 Test RB = RB50#0

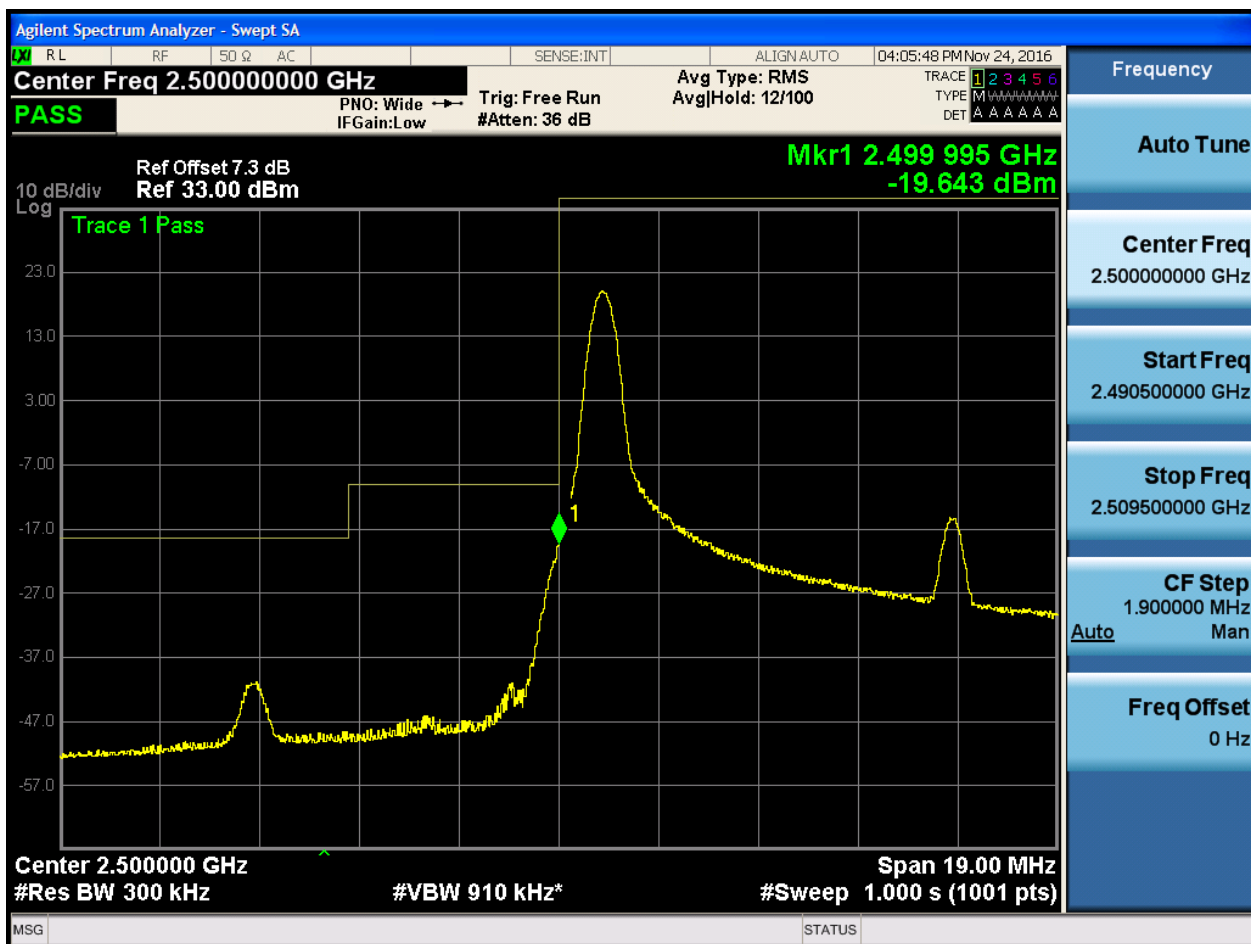




5.2.1.2.3 Test Bandwidth = 15

5.2.1.2.3.1 Test Channel = LCH

5.2.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:06:06 PM Nov 24, 2016

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 300 kHz IF Gain: Low Trig: Free Run Avg Hold: 12/100

PASS PNO: Wide IF Gain: 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

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

Ref Offset 7.3 dB
Ref 33.00 dBm

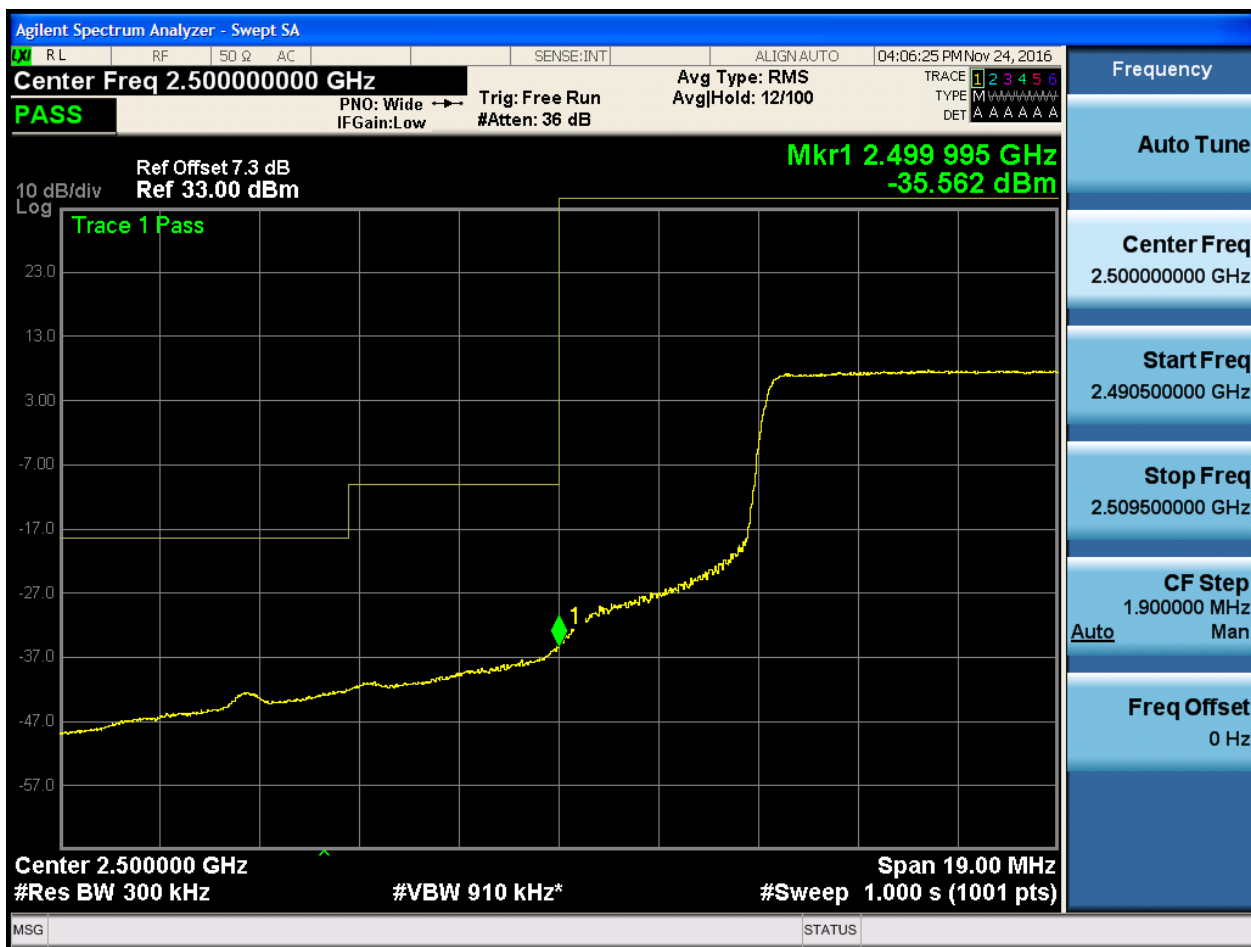
Mkr1 2.499 995 GHz
-39.900 dBm

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 300 kHz #VBW 910 kHz* #Sweep 1.000 s (1001 pts)

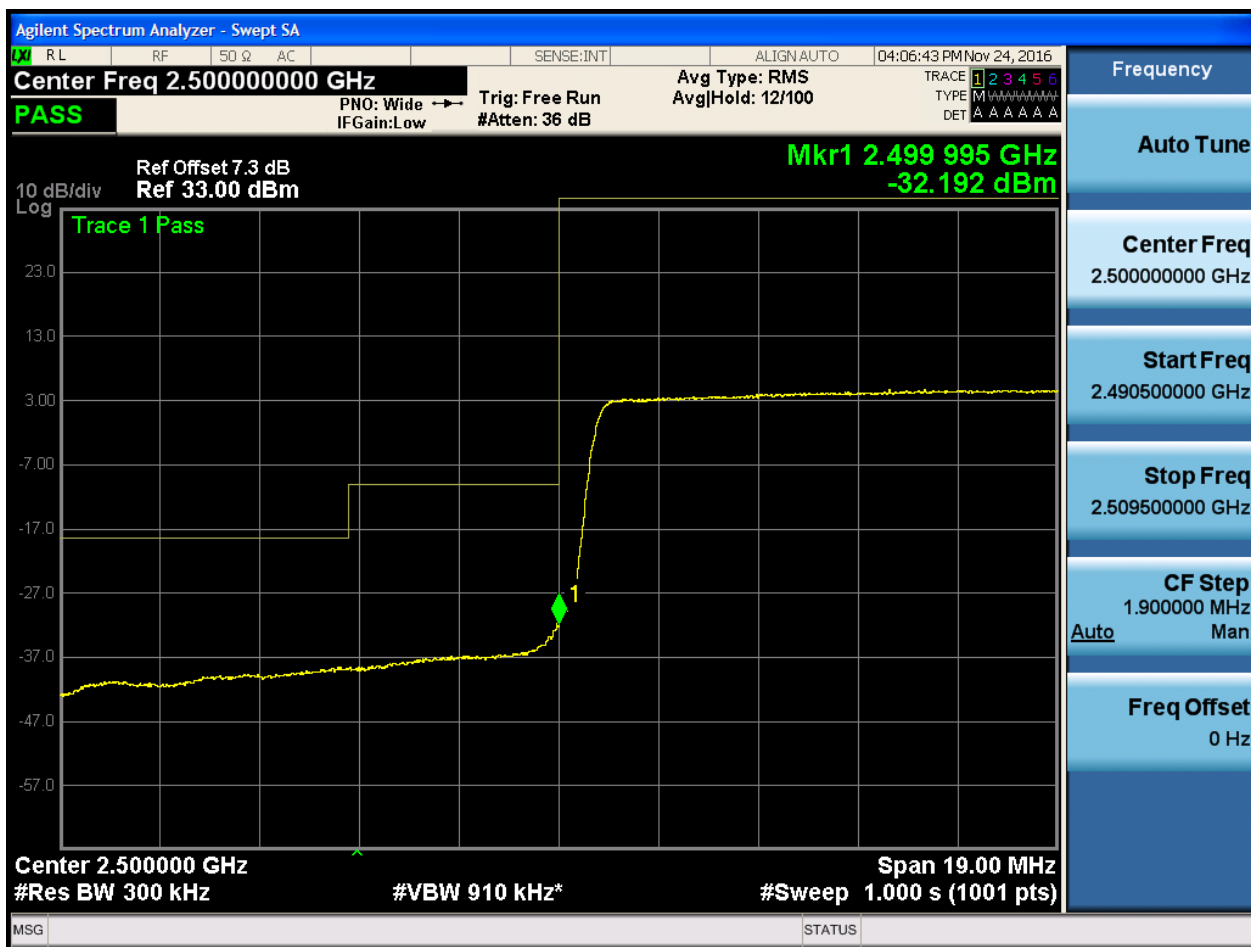
MSG STATUS

5.2.1.2.3.1.3 Test RB = RB36#18





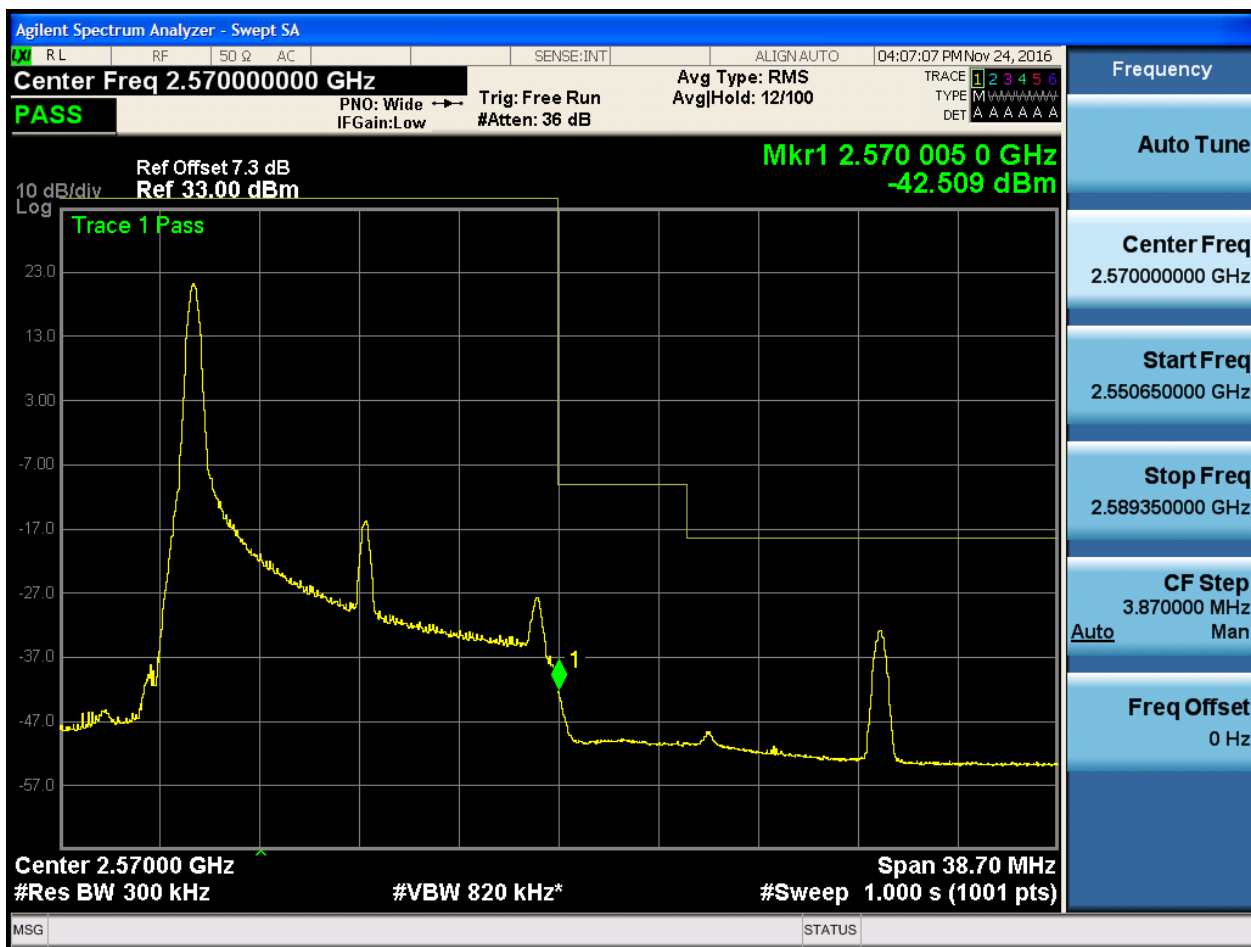
5.2.1.2.3.1.4 Test RB = RB75#0





5.2.1.2.3.2 Test Channel = HCH

5.2.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.3 dB
Ref 33.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.570 005 0 GHz
-18.313 dBm

Center 2.5700 GHz
#Res BW 300 kHz
#VBW 820 kHz*

Span 38.70 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550650000 GHz

Stop Freq
2.589350000 GHz

CF Step
3.870000 MHz
Auto

Freq Offset
0 Hz

5.2.1.2.3.2.3 Test RB = RB36#18



5.2.1.2.3.2.4 Test RB = RB75#0

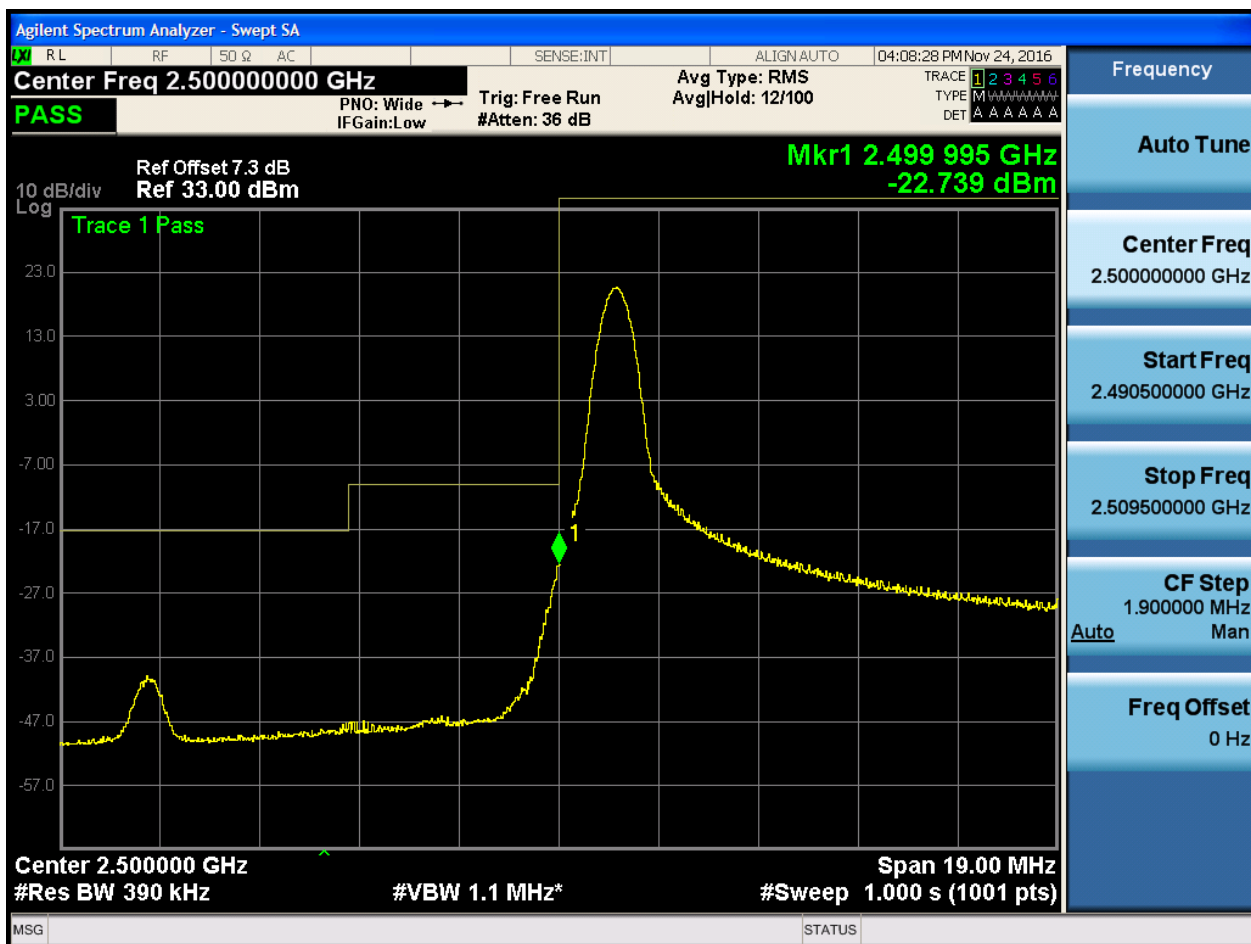




5.2.1.2.4 Test Bandwidth = 20

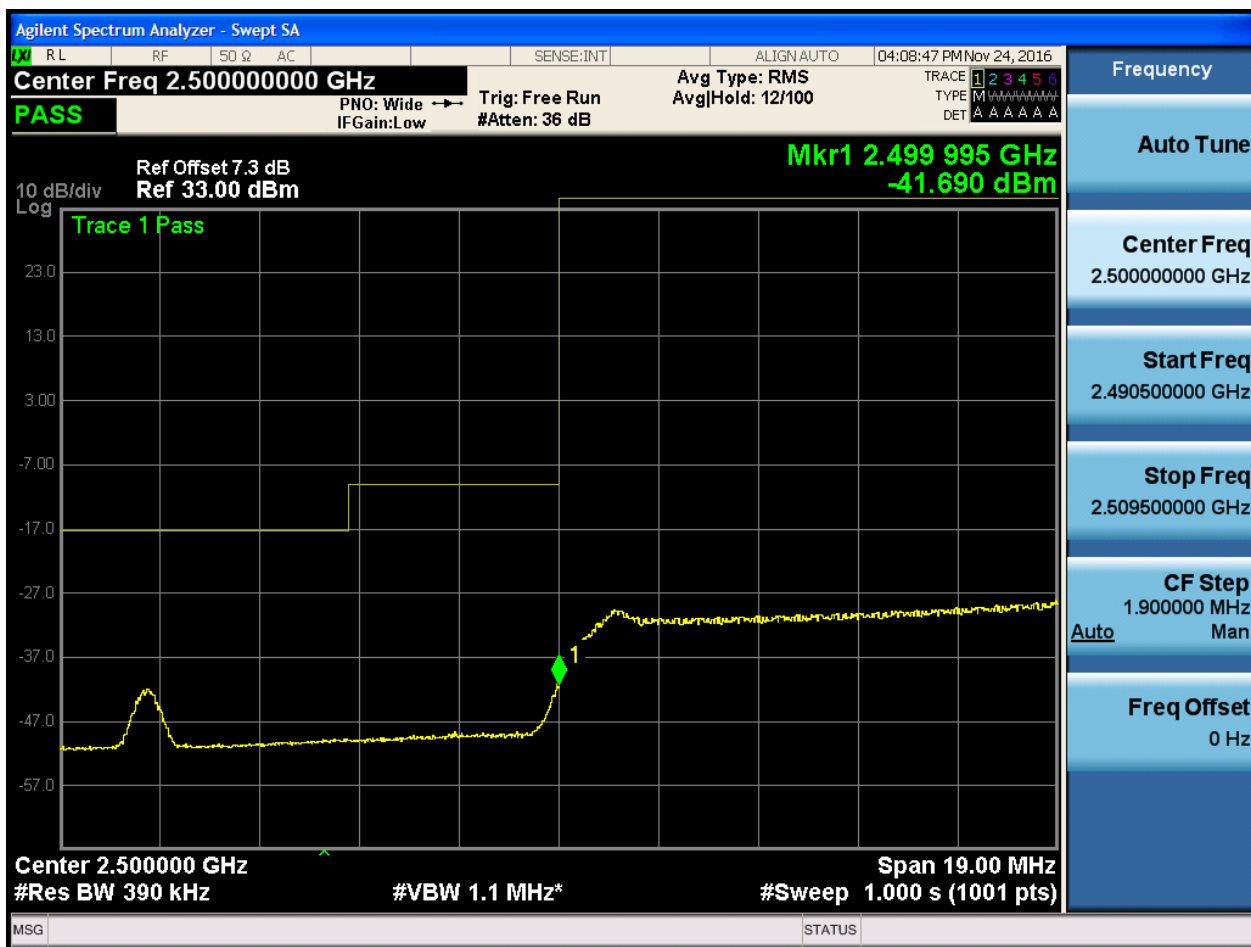
5.2.1.2.4.1 Test Channel = LCH

5.2.1.2.4.1.1 Test RB = RB1#0



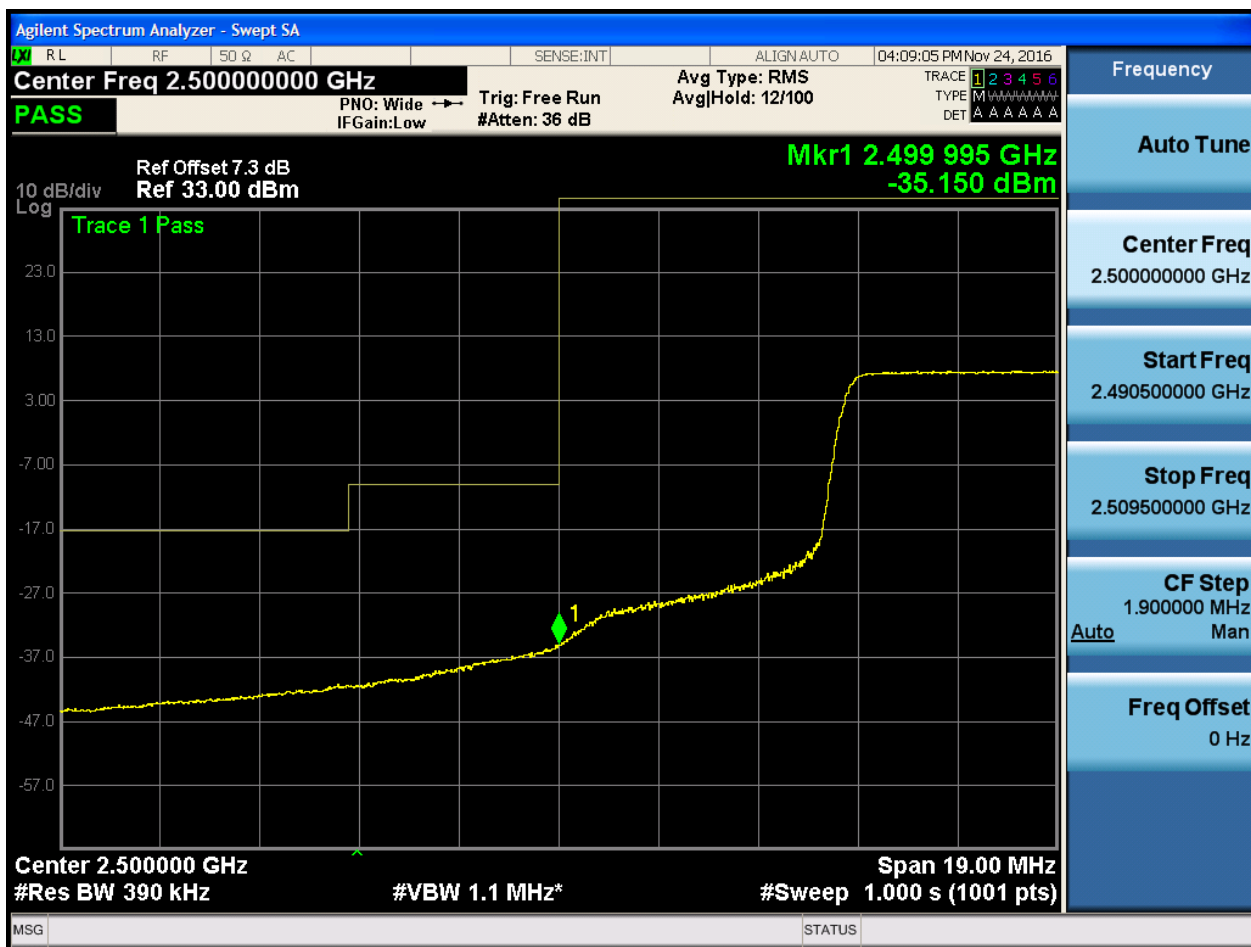


5.2.1.2.4.1.2 Test RB = RB1#99



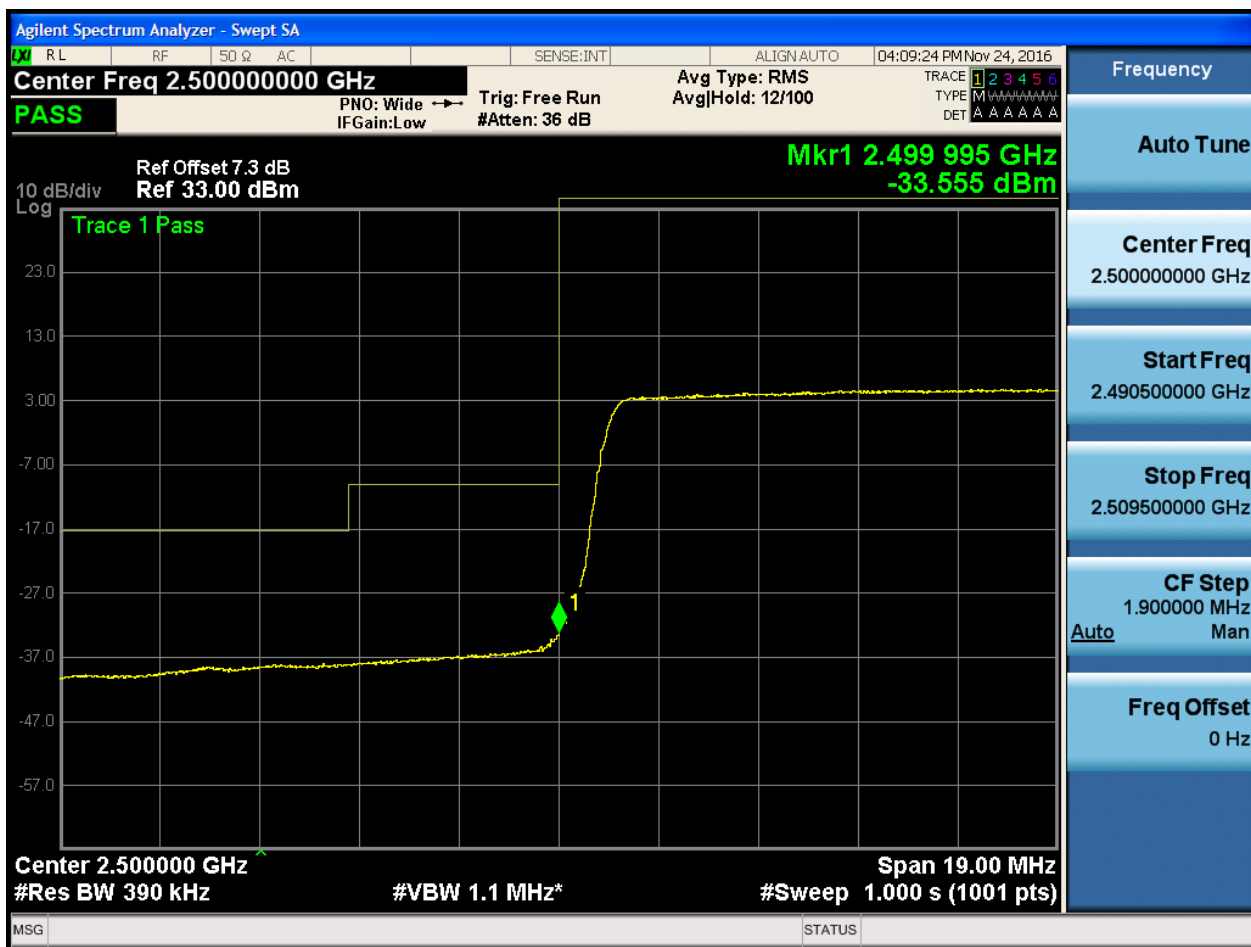


5.2.1.2.4.1.3 Test RB = RB50#25





5.2.1.2.4.1.4 Test RB = RB100#0





5.2.1.2.4.2 Test Channel = HCH

5.2.1.2.4.2.1 Test RB = RB1#0

