



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	22.87	22.06	33	PASS
				RB1#13	22.96	22.15	33	PASS
				RB1#24	22.84	22.03	33	PASS
				RB12#0	21.9	21.09	33	PASS
				RB12#6	21.88	21.07	33	PASS
				RB12#13	21.85	21.04	33	PASS
				RB25#0	21.81	21	33	PASS
			MCH	RB1#0	22.73	21.92	33	PASS
				RB1#13	22.8	21.99	33	PASS
				RB1#24	22.79	21.98	33	PASS
				RB12#0	21.93	21.12	33	PASS
				RB12#6	21.86	21.05	33	PASS
				RB12#13	21.92	21.11	33	PASS
				RB25#0	21.86	21.05	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.79	21.98	33	PASS
				RB1#13	22.83	22.02	33	PASS
				RB1#24	22.86	22.05	33	PASS
				RB12#0	21.84	21.03	33	PASS
				RB12#6	21.73	20.92	33	PASS
				RB12#13	21.88	21.07	33	PASS
				RB25#0	21.82	21.01	33	PASS
		10	LCH	RB1#0	22.87	22.06	33	PASS
				RB1#25	22.77	21.96	33	PASS
				RB1#49	22.89	22.08	33	PASS
				RB25#0	21.86	21.05	33	PASS
				RB25#13	21.84	21.03	33	PASS
				RB25#25	21.91	21.1	33	PASS
				RB50#0	21.9	21.09	33	PASS
			MCH	RB1#0	22.92	22.11	33	PASS
				RB1#25	22.96	22.15	33	PASS
				RB1#49	22.87	22.06	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.86	21.05	33	PASS
				RB25#13	21.85	21.04	33	PASS
				RB25#25	21.94	21.13	33	PASS
				RB50#0	21.89	21.08	33	PASS
			HCH	RB1#0	22.78	21.97	33	PASS
				RB1#25	23.06	22.25	33	PASS
				RB1#49	22.83	22.02	33	PASS
				RB25#0	21.81	21	33	PASS
				RB25#13	21.83	21.02	33	PASS
				RB25#25	21.85	21.04	33	PASS
				RB50#0	21.82	21.01	33	PASS
		15	LCH	RB1#0	22.84	22.03	33	PASS
				RB1#38	22.94	22.13	33	PASS
				RB1#74	22.78	21.97	33	PASS
				RB36#0	21.89	21.08	33	PASS
				RB36#18	21.86	21.05	33	PASS
				RB36#39	21.88	21.07	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.83	21.02	33	PASS
			MCH	RB1#0	22.81	22	33	PASS
				RB1#38	22.88	22.07	33	PASS
				RB1#74	22.79	21.98	33	PASS
				RB36#0	21.95	21.14	33	PASS
				RB36#18	21.9	21.09	33	PASS
				RB36#39	21.9	21.09	33	PASS
				RB75#0	21.89	21.08	33	PASS
			HCH	RB1#0	22.8	21.99	33	PASS
				RB1#38	22.86	22.05	33	PASS
				RB1#74	22.88	22.07	33	PASS
				RB36#0	21.85	21.04	33	PASS
				RB36#18	21.85	21.04	33	PASS
				RB36#39	21.86	21.05	33	PASS
				RB75#0	21.81	21	33	PASS
		20	LCH	RB1#0	22.98	22.17	33	PASS
				RB1#50	22.91	22.1	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.92	22.11	33	PASS
				RB50#0	21.87	21.06	33	PASS
				RB50#25	21.84	21.03	33	PASS
				RB50#50	21.86	21.05	33	PASS
				RB100#0	21.86	21.05	33	PASS
			MCH	RB1#0	22.87	22.06	33	PASS
				RB1#50	22.7	21.89	33	PASS
				RB1#99	22.89	22.08	33	PASS
				RB50#0	21.9	21.09	33	PASS
				RB50#25	21.88	21.07	33	PASS
				RB50#50	21.89	21.08	33	PASS
				RB100#0	21.88	21.07	33	PASS
			HCH	RB1#0	22.87	22.06	33	PASS
				RB1#50	22.82	22.01	33	PASS
				RB1#99	22.88	22.07	33	PASS
				RB50#0	21.82	21.01	33	PASS
				RB50#25	21.85	21.04	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.87	21.06	33	PASS
				RB100#0	21.88	21.07	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.9	21.09	33	PASS
				RB1#13	21.91	21.1	33	PASS
				RB1#24	21.89	21.08	33	PASS
				RB12#0	20.83	20.02	33	PASS
				RB12#6	20.81	20	33	PASS
				RB12#13	20.85	20.04	33	PASS
				RB25#0	20.84	20.03	33	PASS
			MCH	RB1#0	22.14	21.33	33	PASS
				RB1#13	22.04	21.23	33	PASS
				RB1#24	22.18	21.37	33	PASS
				RB12#0	20.87	20.06	33	PASS
				RB12#6	20.93	20.12	33	PASS
				RB12#13	20.9	20.09	33	PASS
				RB25#0	20.75	19.94	33	PASS
			HCH	RB1#0	22.25	21.44	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.91	21.1	33	PASS
				RB1#24	22.32	21.51	33	PASS
				RB12#0	20.85	20.04	33	PASS
				RB12#6	20.58	19.77	33	PASS
				RB12#13	20.8	19.99	33	PASS
				RB25#0	20.77	19.96	33	PASS
		10	LCH	RB1#0	22.2	21.39	33	PASS
				RB1#25	21.67	20.86	33	PASS
				RB1#49	22.18	21.37	33	PASS
				RB25#0	20.83	20.02	33	PASS
				RB25#13	20.86	20.05	33	PASS
				RB25#25	20.82	20.01	33	PASS
				RB50#0	20.78	19.97	33	PASS
			MCH	RB1#0	21.88	21.07	33	PASS
				RB1#25	21.81	21	33	PASS
				RB1#49	21.91	21.1	33	PASS
				RB25#0	20.87	20.06	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.88	20.07	33	PASS
				RB25#25	20.88	20.07	33	PASS
				RB50#0	20.83	20.02	33	PASS
			HCH	RB1#0	22.25	21.44	33	PASS
				RB1#25	21.83	21.02	33	PASS
				RB1#49	22.28	21.47	33	PASS
				RB25#0	20.73	19.92	33	PASS
				RB25#13	20.68	19.87	33	PASS
				RB25#25	20.77	19.96	33	PASS
				RB50#0	20.77	19.96	33	PASS
		15	LCH	RB1#0	22.08	21.27	33	PASS
				RB1#38	22.05	21.24	33	PASS
				RB1#74	22.04	21.23	33	PASS
				RB36#0	20.87	20.06	33	PASS
				RB36#18	20.77	19.96	33	PASS
				RB36#39	20.81	20	33	PASS
				RB75#0	20.77	19.96	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.1	21.29	33	PASS
				RB1#38	22.1	21.29	33	PASS
				RB1#74	22.05	21.24	33	PASS
				RB36#0	20.83	20.02	33	PASS
				RB36#18	20.82	20.01	33	PASS
				RB36#39	20.9	20.09	33	PASS
				RB75#0	20.75	19.94	33	PASS
			HCH	RB1#0	21.95	21.14	33	PASS
				RB1#38	21.96	21.15	33	PASS
				RB1#74	21.92	21.11	33	PASS
				RB36#0	20.74	19.93	33	PASS
				RB36#18	20.73	19.92	33	PASS
				RB36#39	20.81	20	33	PASS
				RB75#0	20.78	19.97	33	PASS
		20	LCH	RB1#0	22.22	21.41	33	PASS
				RB1#50	21.63	20.82	33	PASS
				RB1#99	22.18	21.37	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.78	19.97	33	PASS
				RB50#25	20.78	19.97	33	PASS
				RB50#50	20.83	20.02	33	PASS
				RB100#0	20.74	19.93	33	PASS
			MCH	RB1#0	22.11	21.3	33	PASS
				RB1#50	21.76	20.95	33	PASS
				RB1#99	22.17	21.36	33	PASS
				RB50#0	20.82	20.01	33	PASS
				RB50#25	20.83	20.02	33	PASS
				RB50#50	20.78	19.97	33	PASS
				RB100#0	20.81	20	33	PASS
			HCH	RB1#0	22.24	21.43	33	PASS
				RB1#50	21.9	21.09	33	PASS
				RB1#99	22.26	21.45	33	PASS
				RB50#0	20.77	19.96	33	PASS
				RB50#25	20.73	19.92	33	PASS
				RB50#50	20.83	20.02	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.8	19.99	33	PASS

Note1:

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

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

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

b, SGP=Signal Generator Level

Note2:

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

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

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

SET Sweep time=auto-couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	3.75	13	PASS
				RB1#13	3.7	13	PASS
				RB1#24	3.76	13	PASS
				RB12#0	4.82	13	PASS
				RB12#6	4.75	13	PASS
				RB12#13	4.99	13	PASS
				RB25#0	5.32	13	PASS
			MCH	RB1#0	3.98	13	PASS
				RB1#13	3.96	13	PASS
				RB1#24	4.03	13	PASS
				RB12#0	4.67	13	PASS
				RB12#6	4.5	13	PASS
				RB12#13	4.74	13	PASS
				RB25#0	5.16	13	PASS
			HCH	RB1#0	3.95	13	PASS
				RB1#13	3.92	13	PASS
				RB1#24	3.89	13	PASS
				RB12#0	4.74	13	PASS
				RB12#6	4.5	13	PASS
				RB12#13	4.68	13	PASS
				RB25#0	5.13	13	PASS
		10	LCH	RB1#0	3.52	13	PASS
				RB1#25	3.78	13	PASS
				RB1#49	3.85	13	PASS
				RB25#0	4.84	13	PASS
				RB25#13	4.8	13	PASS
				RB25#25	5.07	13	PASS
				RB50#0	5.44	13	PASS
			MCH	RB1#0	3.97	13	PASS
				RB1#25	3.85	13	PASS
				RB1#49	3.95	13	PASS
				RB25#0	4.72	13	PASS
				RB25#13	4.61	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	4.85	13	PASS
				RB50#0	5.3	13	PASS
			HCH	RB1#0	3.84	13	PASS
				RB1#25	4.05	13	PASS
				RB1#49	4.06	13	PASS
				RB25#0	4.96	13	PASS
				RB25#13	4.65	13	PASS
				RB25#25	4.84	13	PASS
				RB50#0	5.42	13	PASS
		15	LCH	RB1#0	3.74	13	PASS
				RB1#38	3.86	13	PASS
				RB1#74	4.16	13	PASS
				RB36#0	5.11	13	PASS
				RB36#18	5.03	13	PASS
				RB36#39	5.51	13	PASS
				RB75#0	5.59	13	PASS
			MCH	RB1#0	3.98	13	PASS
				RB1#38	3.98	13	PASS
				RB1#74	4.05	13	PASS
				RB36#0	4.88	13	PASS
				RB36#18	4.64	13	PASS
				RB36#39	5.07	13	PASS
				RB75#0	5.59	13	PASS
			HCH	RB1#0	3.87	13	PASS
				RB1#38	3.88	13	PASS
				RB1#74	4.01	13	PASS
				RB36#0	5.2	13	PASS
				RB36#18	4.86	13	PASS
				RB36#39	4.9	13	PASS
				RB75#0	5.52	13	PASS
		20	LCH	RB1#0	3.63	13	PASS
				RB1#50	4.39	13	PASS
				RB1#99	4.11	13	PASS
				RB50#0	5.06	13	PASS
				RB50#25	5.14	13	PASS
				RB50#50	5.38	13	PASS
				RB100#0	5.52	13	PASS
			MCH	RB1#0	3.97	13	PASS
				RB1#50	4.17	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.02	13	PASS
				RB50#0	4.93	13	PASS
				RB50#25	4.69	13	PASS
				RB50#50	5.12	13	PASS
				RB100#0	5.62	13	PASS
			HCH	RB1#0	3.85	13	PASS
				RB1#50	4.08	13	PASS
				RB1#99	4.07	13	PASS
				RB50#0	5.11	13	PASS
				RB50#25	4.87	13	PASS
				RB50#50	4.91	13	PASS
				RB100#0	5.45	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.5	13	PASS
				RB1#13	4.57	13	PASS
				RB1#24	4.62	13	PASS
				RB12#0	5.71	13	PASS
				RB12#6	5.58	13	PASS
				RB12#13	5.84	13	PASS
				RB25#0	6.36	13	PASS
			MCH	RB1#0	4.47	13	PASS
				RB1#13	4.35	13	PASS
				RB1#24	4.43	13	PASS
				RB12#0	5.58	13	PASS
				RB12#6	5.45	13	PASS
				RB12#13	5.68	13	PASS
				RB25#0	6.23	13	PASS
			HCH	RB1#0	4.33	13	PASS
				RB1#13	4.18	13	PASS
				RB1#24	4.21	13	PASS
				RB12#0	5.5	13	PASS
				RB12#6	5.37	13	PASS
				RB12#13	5.53	13	PASS
				RB25#0	5.89	13	PASS
		10	LCH	RB1#0	4.37	13	PASS
				RB1#25	4.9	13	PASS
				RB1#49	4.82	13	PASS
				RB25#0	5.84	13	PASS
				RB25#13	5.85	13	PASS
				RB25#25	6.09	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.3	13	PASS
				RB1#0	4.67	13	PASS
			MCH	RB1#25	5.02	13	PASS
				RB1#49	4.9	13	PASS
				RB25#0	5.69	13	PASS
				RB25#13	5.5	13	PASS
				RB25#25	5.76	13	PASS
				RB50#0	6.25	13	PASS
			HCH	RB1#0	4.37	13	PASS
				RB1#25	4.4	13	PASS
				RB1#49	4.48	13	PASS
				RB25#0	5.86	13	PASS
				RB25#13	5.5	13	PASS
				RB25#25	5.64	13	PASS
				RB50#0	6.07	13	PASS
		15	LCH	RB1#0	4.88	13	PASS
				RB1#38	4.8	13	PASS
				RB1#74	5.12	13	PASS
				RB36#0	5.86	13	PASS
				RB36#18	5.95	13	PASS
				RB36#39	6.28	13	PASS
				RB75#0	6.51	13	PASS
			MCH	RB1#0	4.94	13	PASS
				RB1#38	4.85	13	PASS
				RB1#74	5.05	13	PASS
				RB36#0	5.76	13	PASS
				RB36#18	5.62	13	PASS
				RB36#39	5.94	13	PASS
				RB75#0	6.49	13	PASS
			HCH	RB1#0	4.43	13	PASS
				RB1#38	4.28	13	PASS
				RB1#74	4.48	13	PASS
				RB36#0	6.12	13	PASS
				RB36#18	5.76	13	PASS
				RB36#39	5.8	13	PASS
				RB75#0	6.42	13	PASS
		20	LCH	RB1#0	4.42	13	PASS
				RB1#50	4.92	13	PASS
				RB1#99	4.8	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.14	13	PASS
				RB50#25	6.16	13	PASS
				RB50#50	6.5	13	PASS
				RB100#0	6.53	13	PASS
			MCH	RB1#0	4.72	13	PASS
				RB1#50	4.83	13	PASS
				RB1#99	4.83	13	PASS
				RB50#0	5.76	13	PASS
				RB50#25	5.58	13	PASS
				RB50#50	5.96	13	PASS
				RB100#0	6.29	13	PASS
			HCH	RB1#0	4.56	13	PASS
				RB1#50	4.69	13	PASS
				RB1#99	4.36	13	PASS
				RB50#0	6.17	13	PASS
				RB50#25	5.92	13	PASS
				RB50#50	5.75	13	PASS
				RB100#0	6.5	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

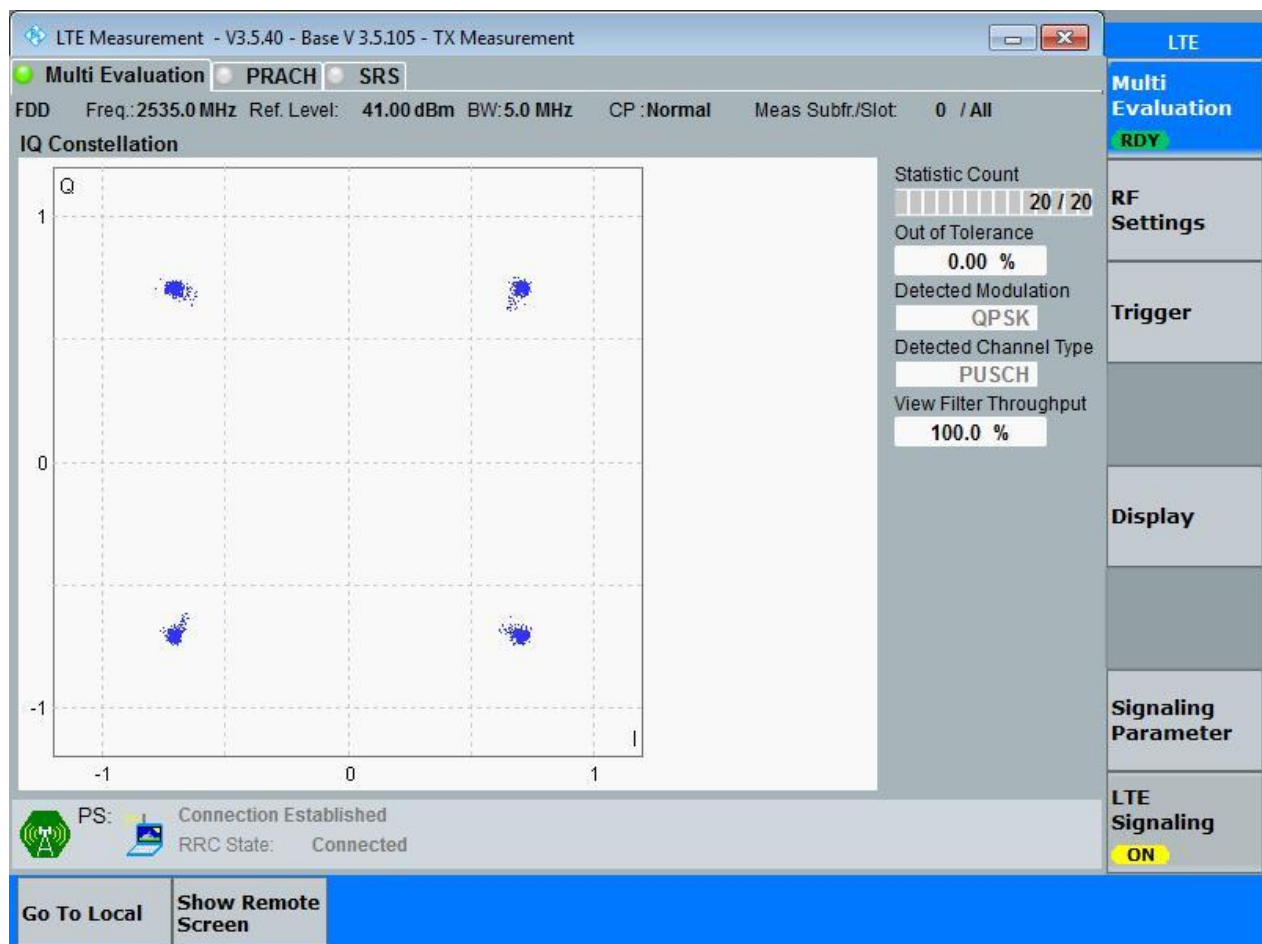
3.1.1 Test Band = BAND7

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

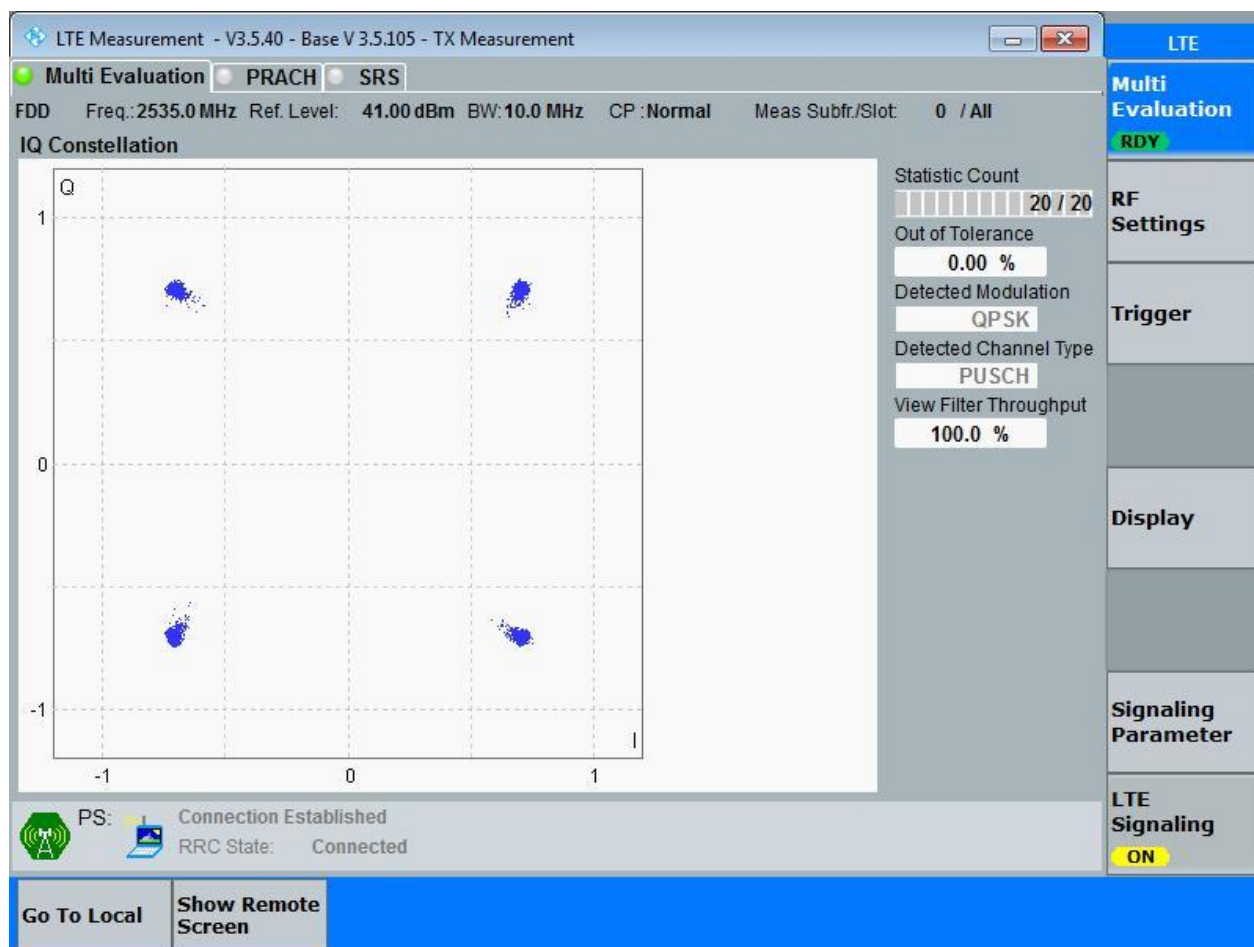
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

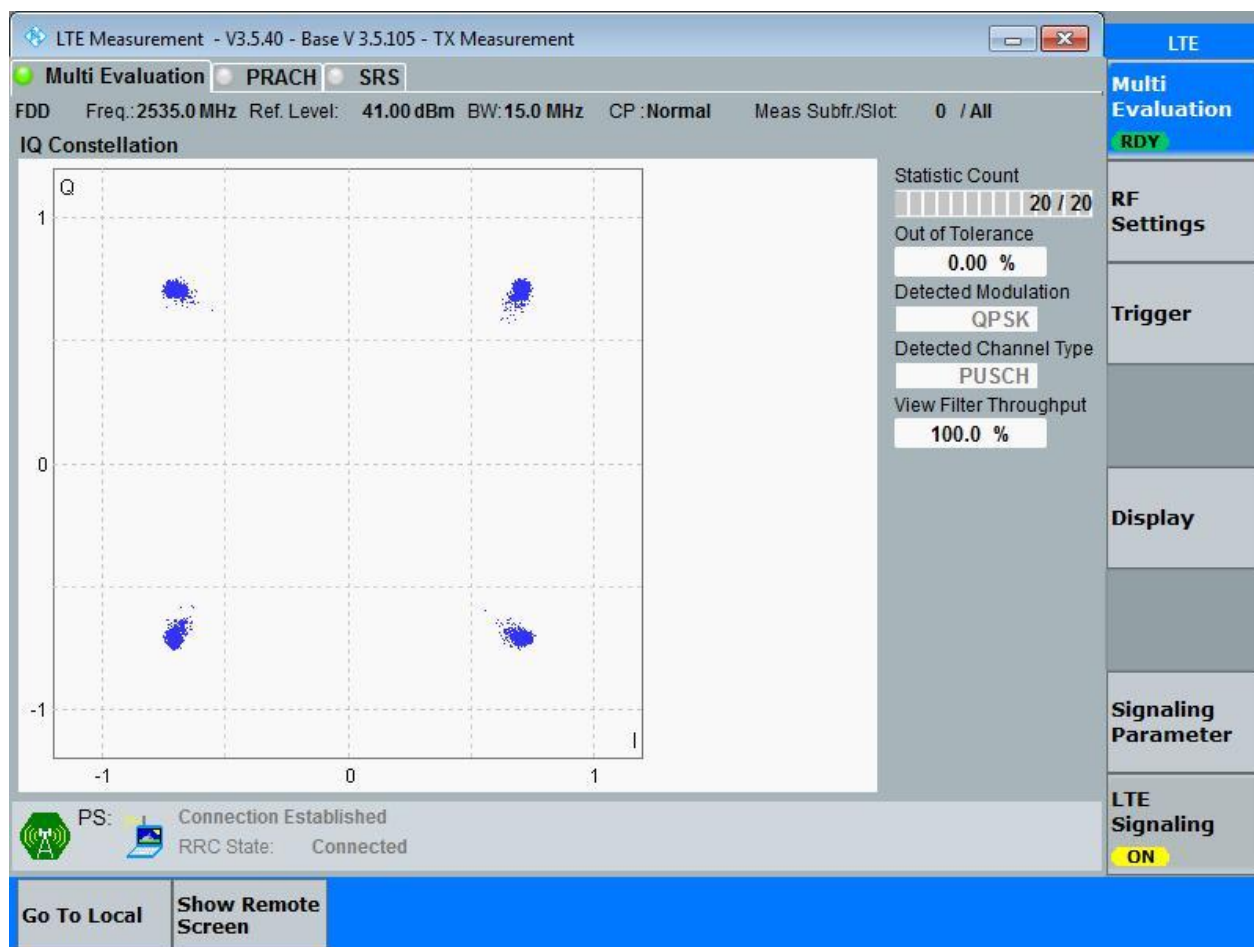
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

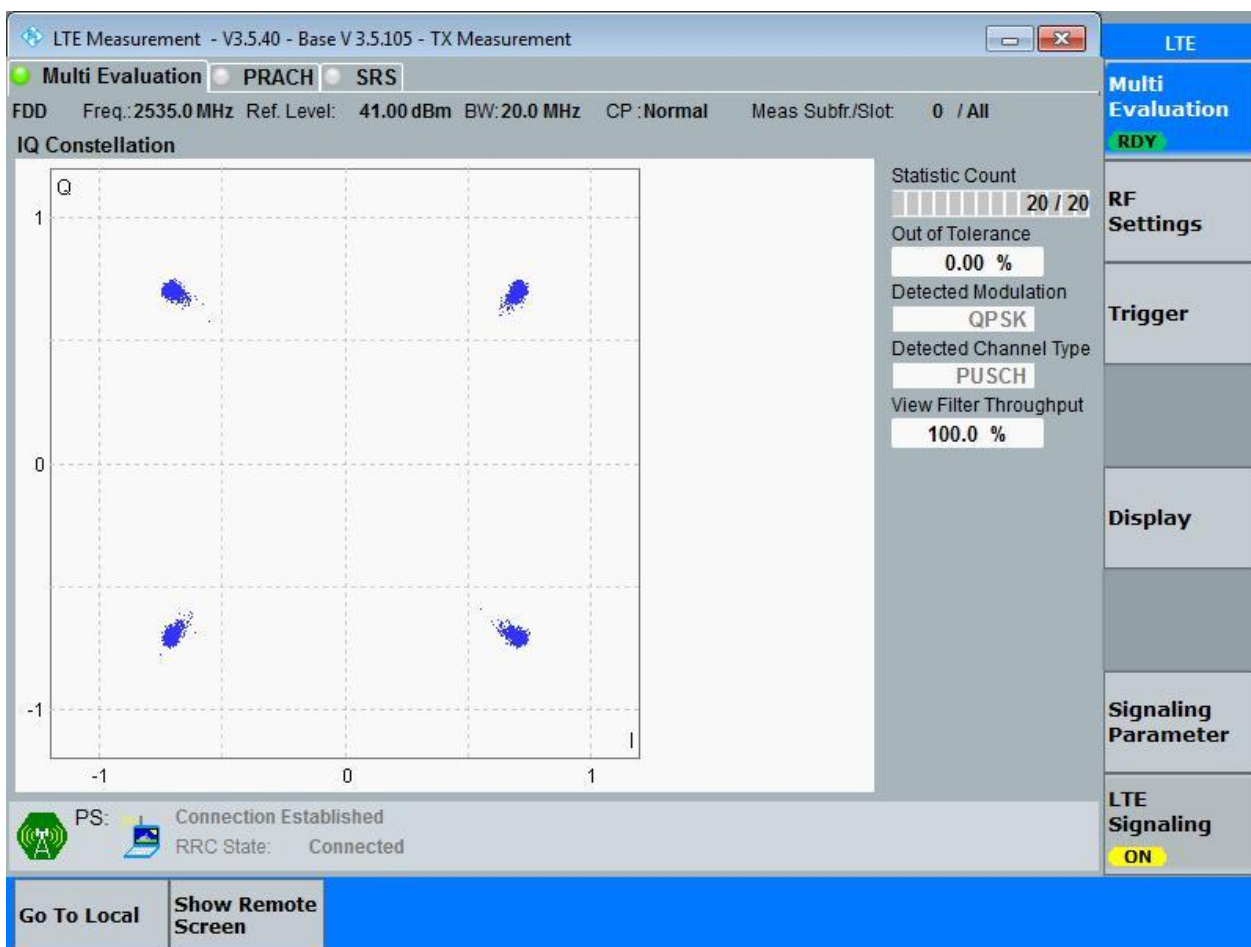
3.1.1.1.3.1.1 Test RB = RB75#0



3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0

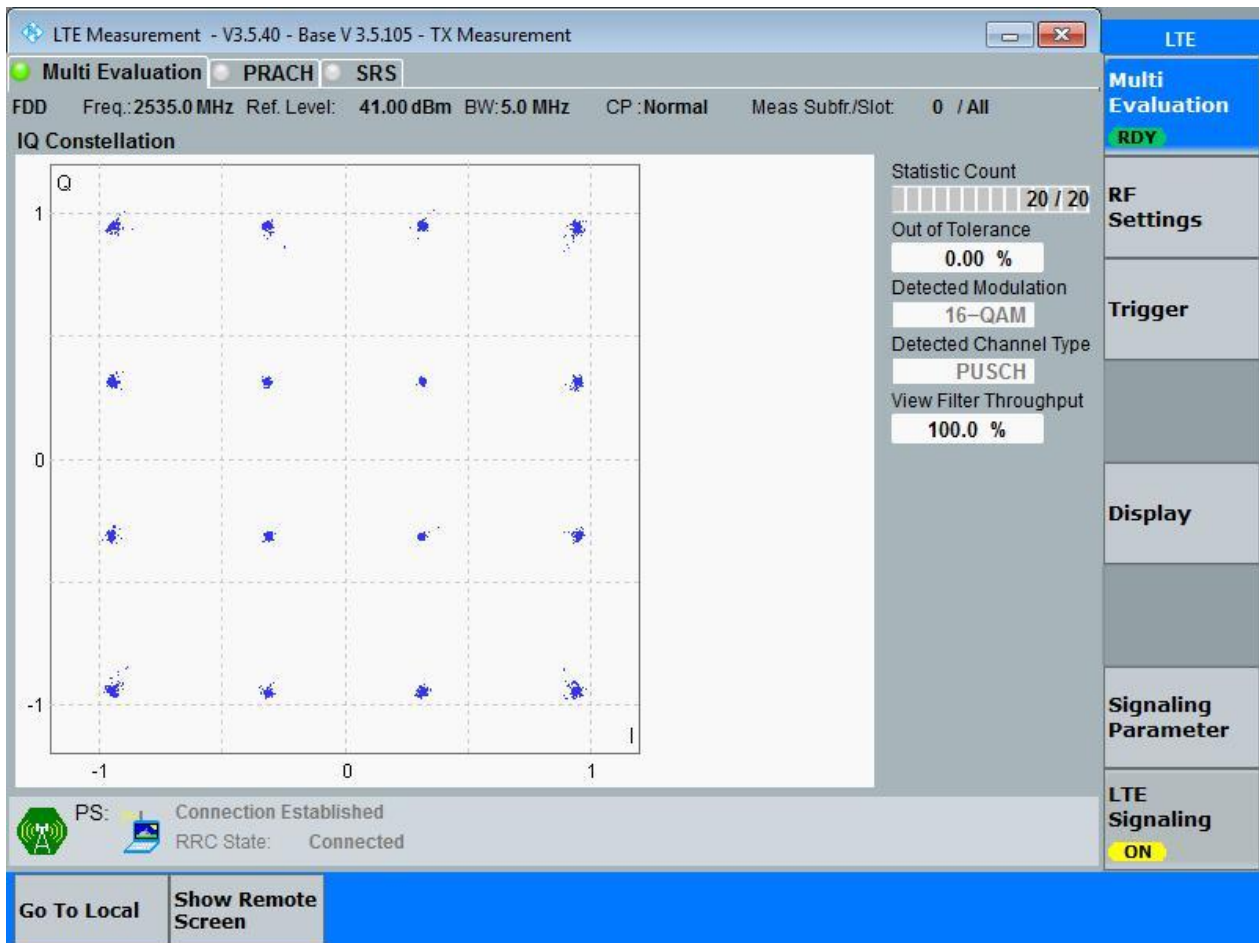


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

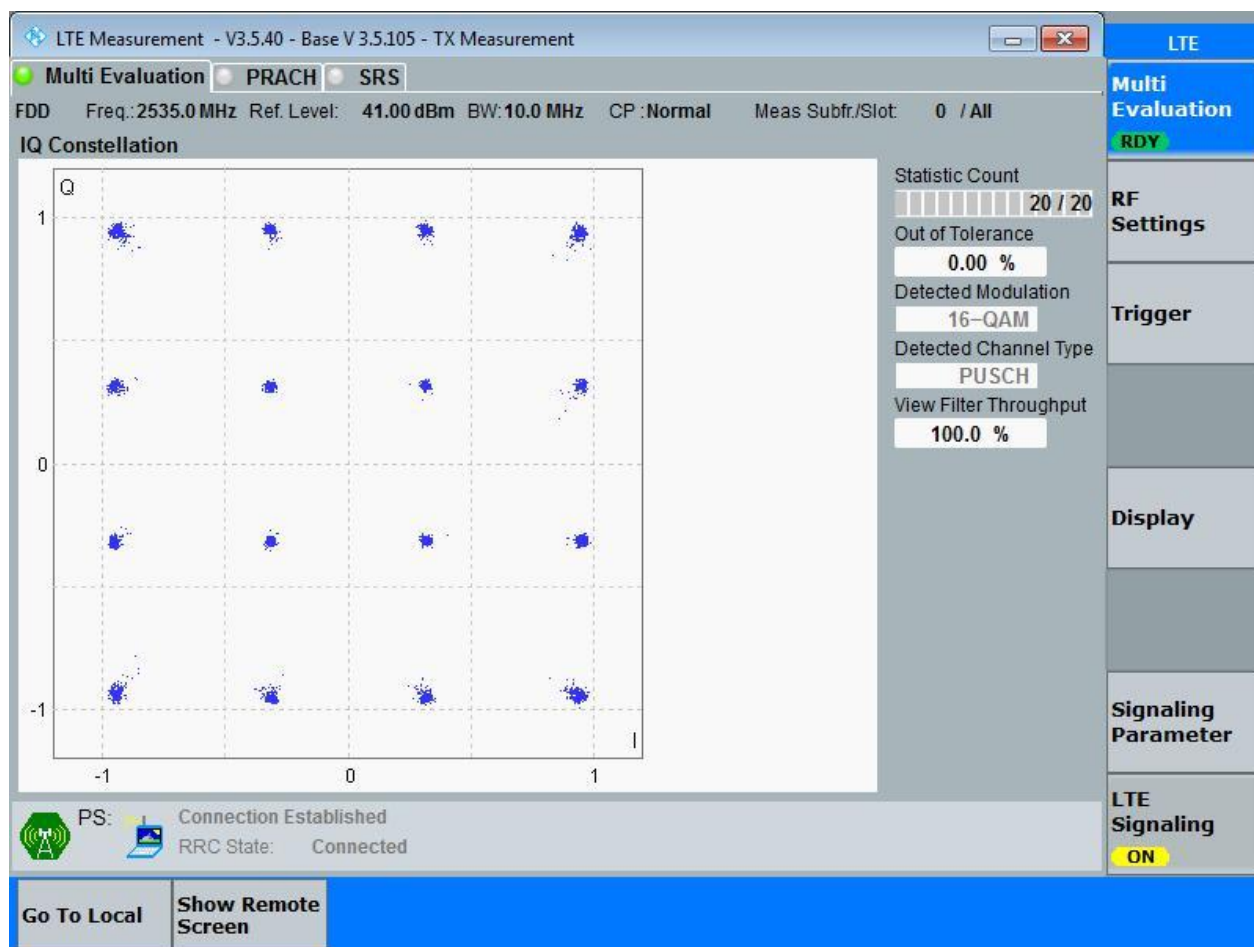
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

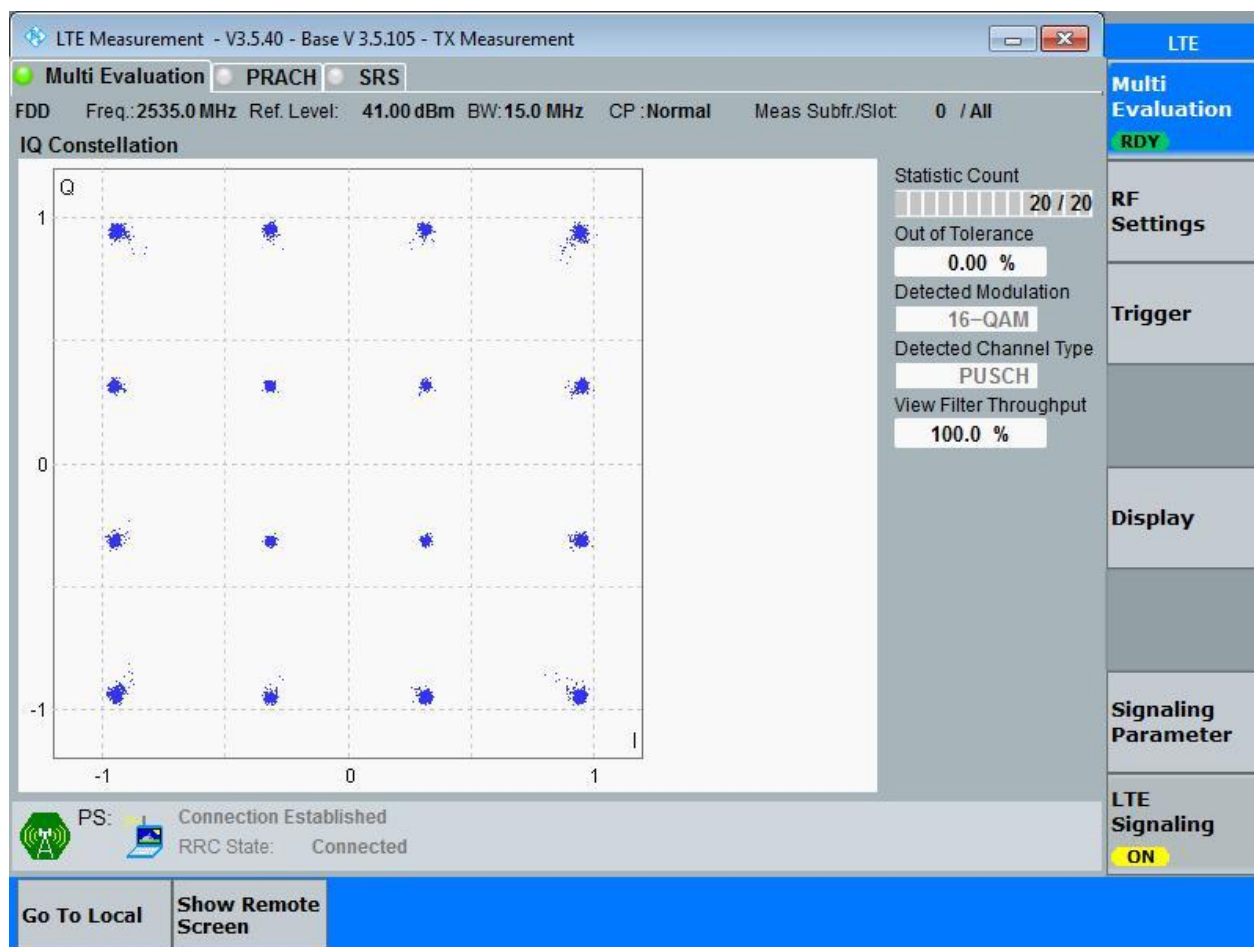
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

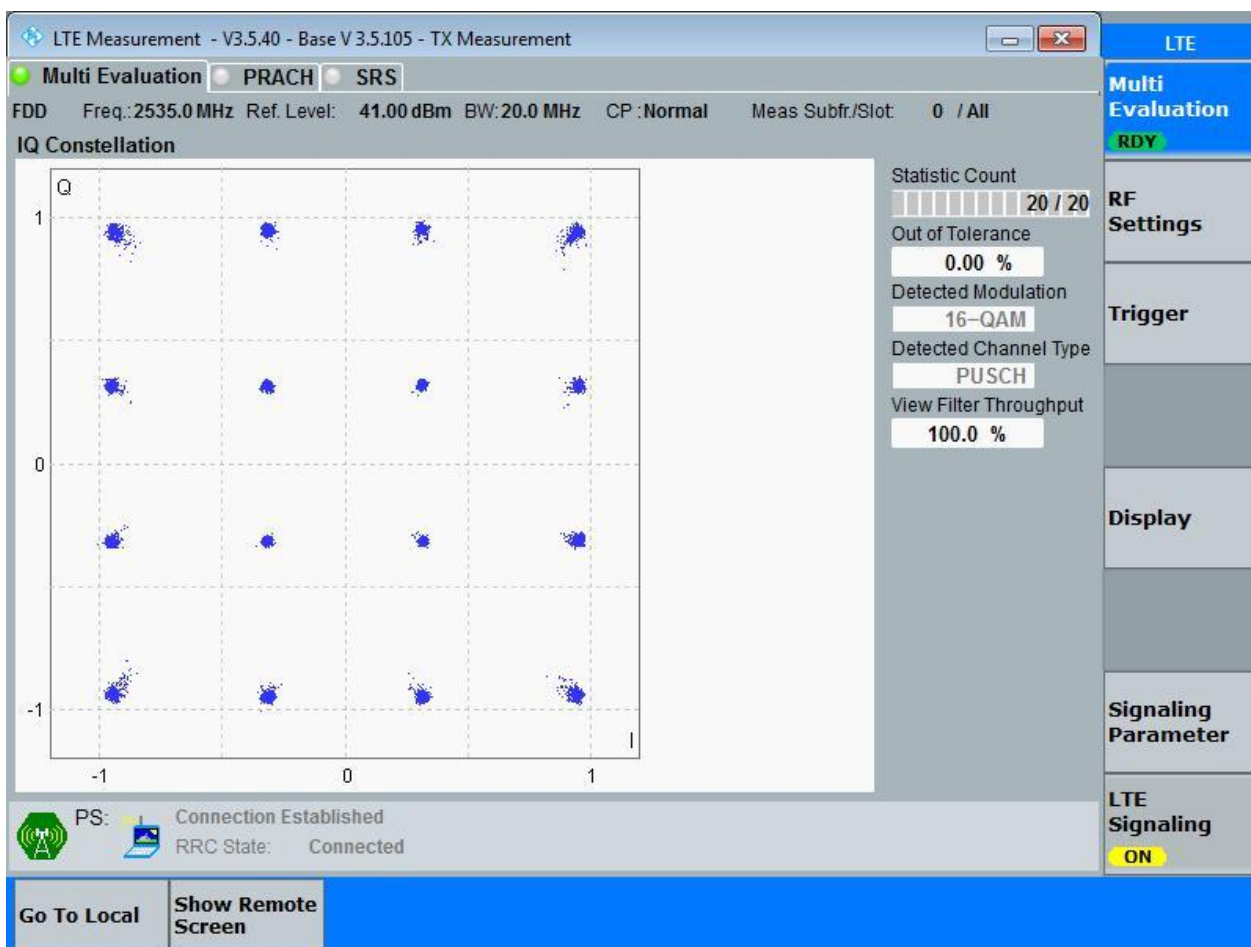
3.1.1.2.3.1.1 Test RB = RB75#0



3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB100#0



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND7	LTE/TM1	5	LCH	RB25#0	4.52	4.96	Pass
			MCH	RB25#0	4.50	4.97	Pass
			HCH	RB25#0	4.52	4.99	Pass
		10	LCH	RB50#0	9.01	9.93	Pass
			MCH	RB50#0	9.00	9.95	Pass
			HCH	RB50#0	9.01	9.92	Pass
		15	LCH	RB75#0	13.51	14.99	Pass
			MCH	RB75#0	13.50	15.02	Pass
			HCH	RB75#0	13.51	15.04	Pass
		20	LCH	RB100#0	17.98	19.83	Pass
			MCH	RB100#0	18.08	19.82	Pass
			HCH	RB100#0	18.02	19.89	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.52	4.99	Pass
			HCH	RB25#0	4.52	5.01	Pass
		10	LCH	RB50#0	9.01	9.90	Pass
			MCH	RB50#0	9.02	9.96	Pass
			HCH	RB50#0	9.01	9.92	Pass
		15	LCH	RB75#0	13.47	14.91	Pass
			MCH	RB75#0	13.52	15.05	Pass
			HCH	RB75#0	13.52	15.04	Pass
		20	LCH	RB100#0	18.00	19.90	Pass
			MCH	RB100#0	18.03	19.89	Pass
			HCH	RB100#0	18.00	19.76	Pass



Part II - Test Plots

4.1 For LTE

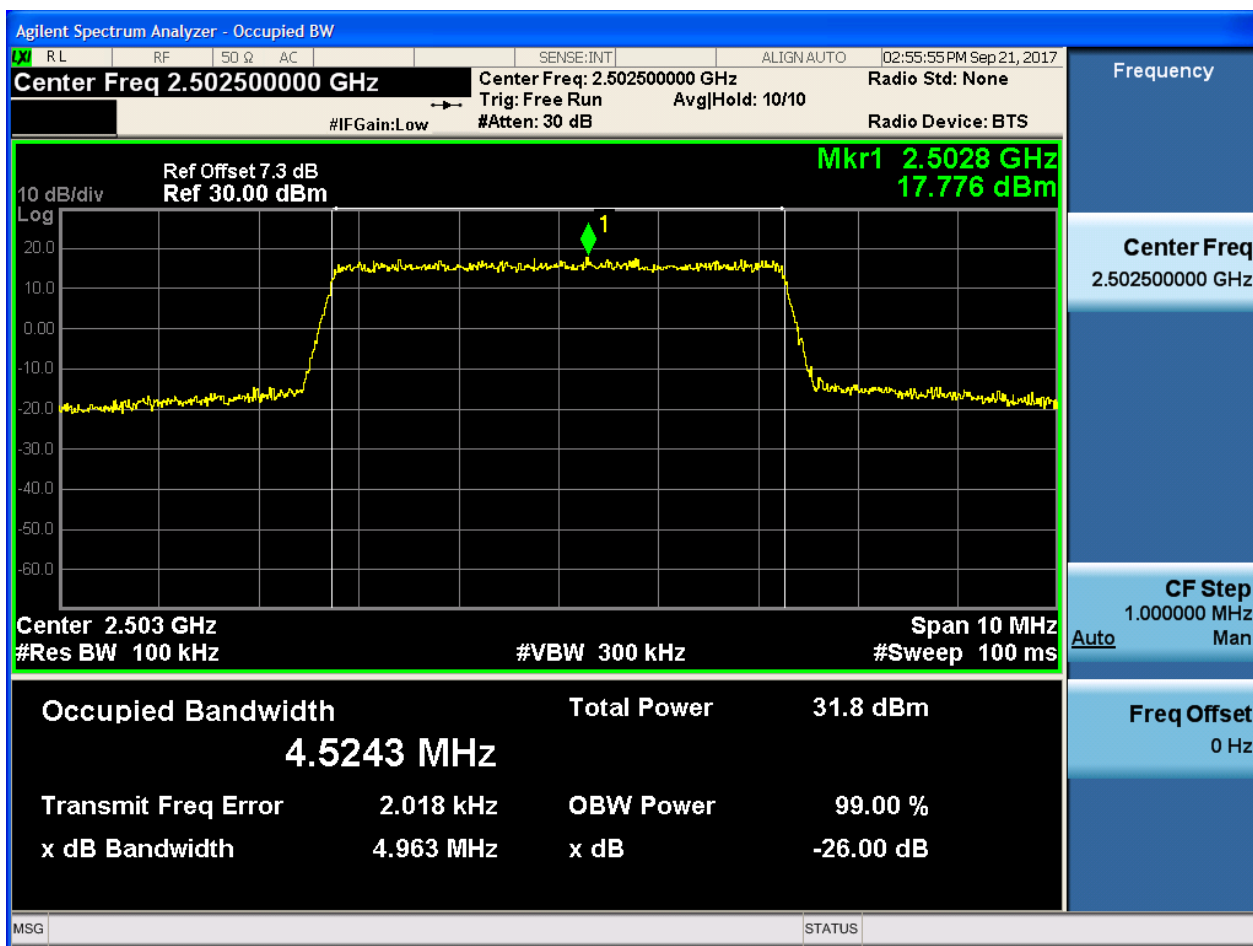
4.1.1 Test Band = BAND7

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

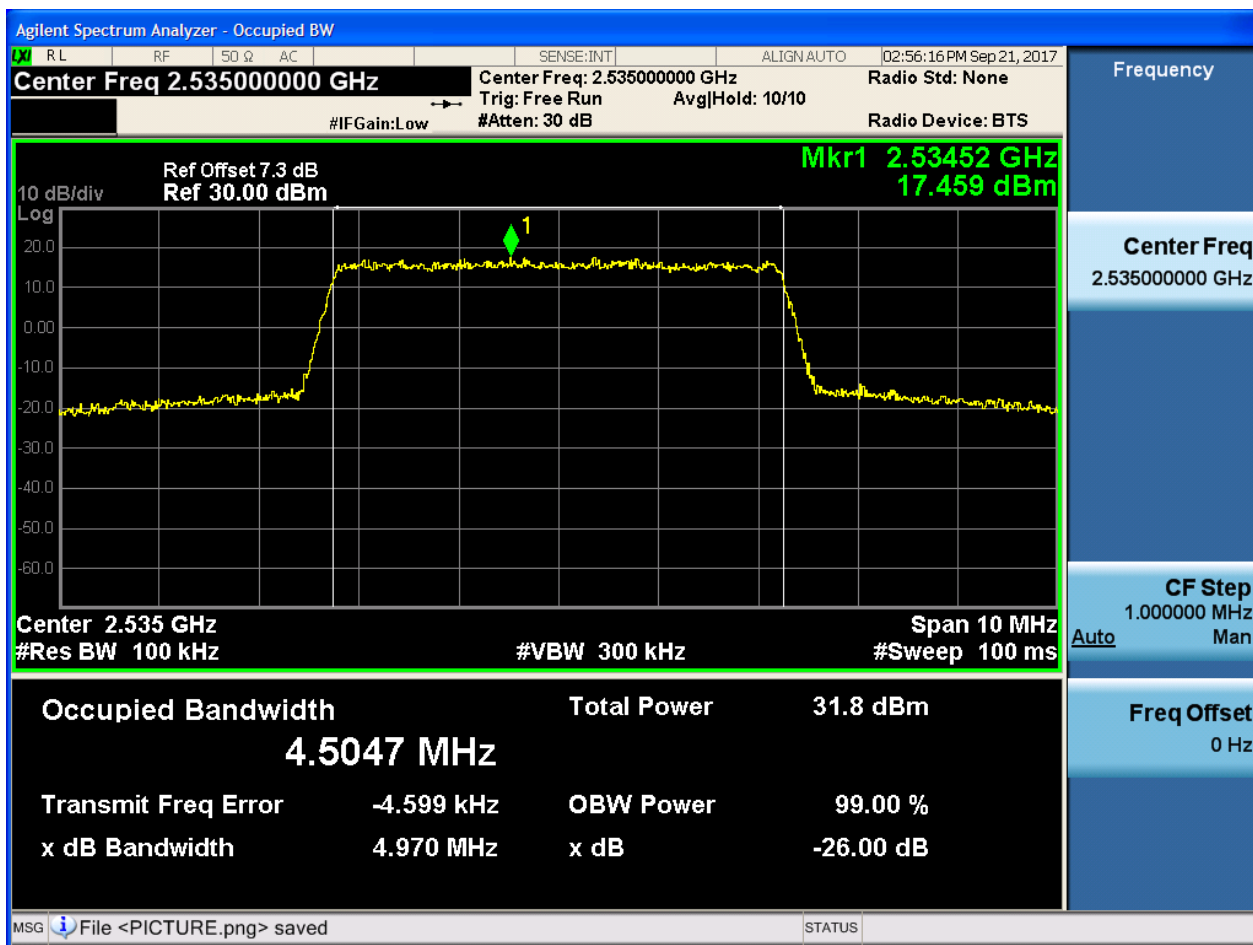
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

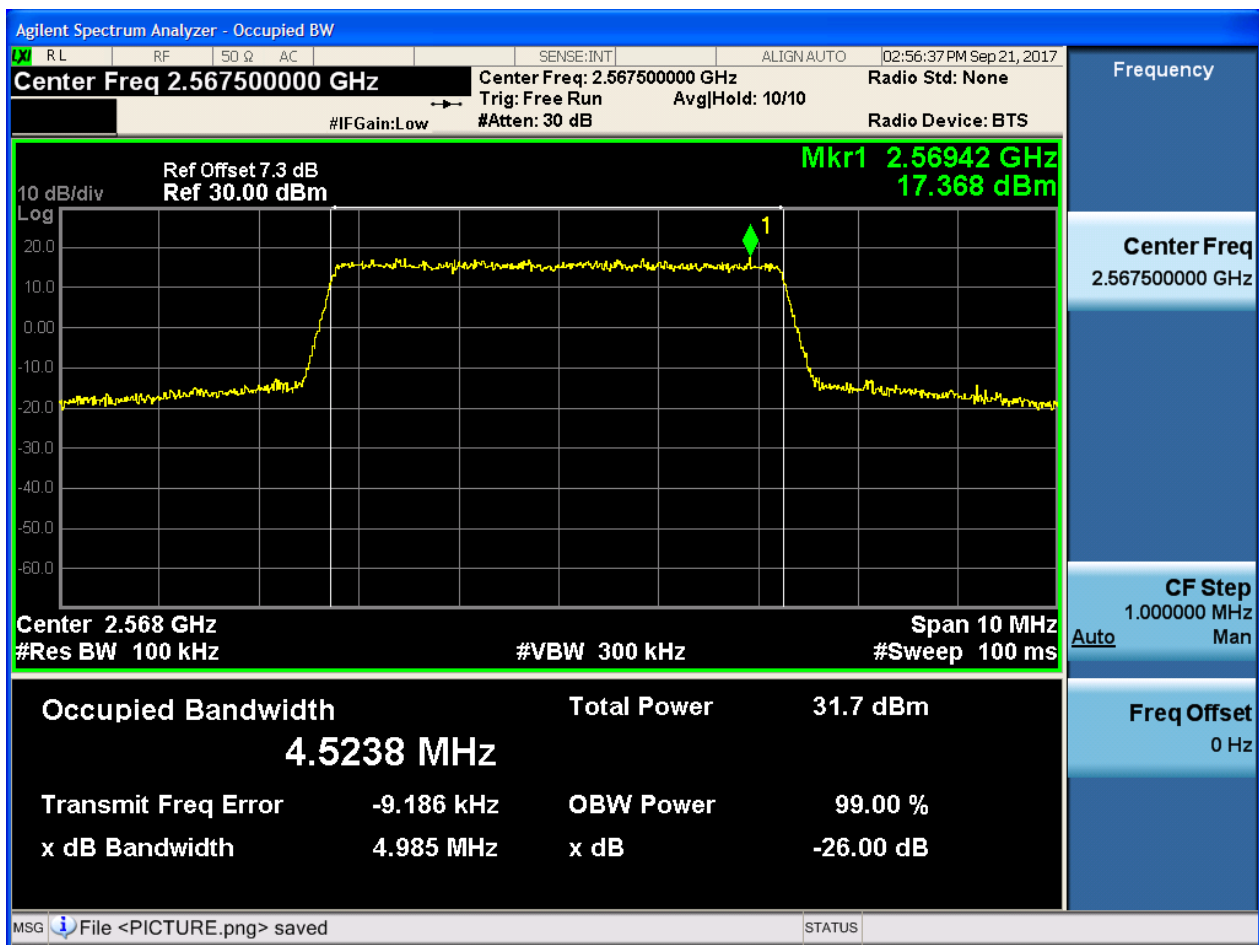
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

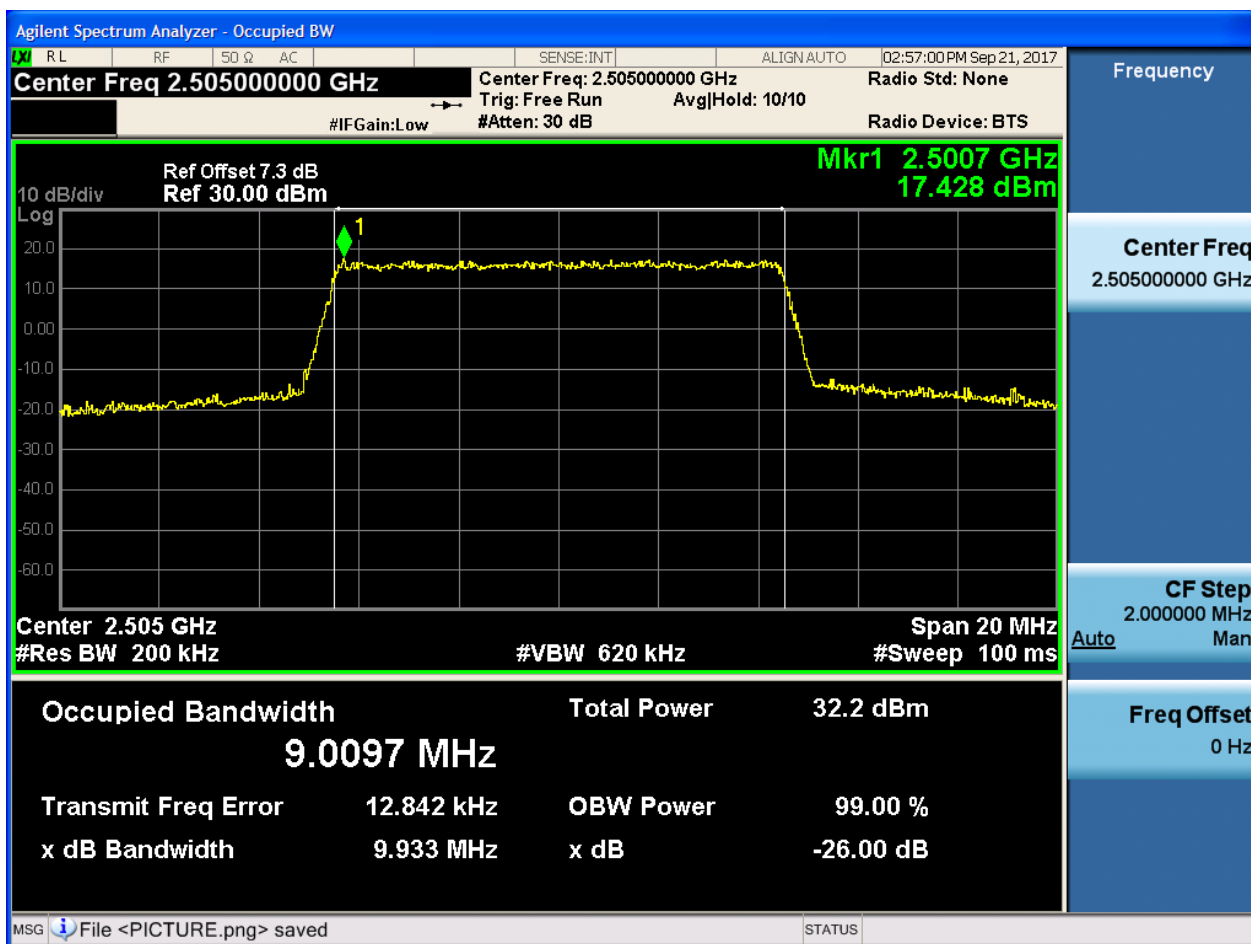




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

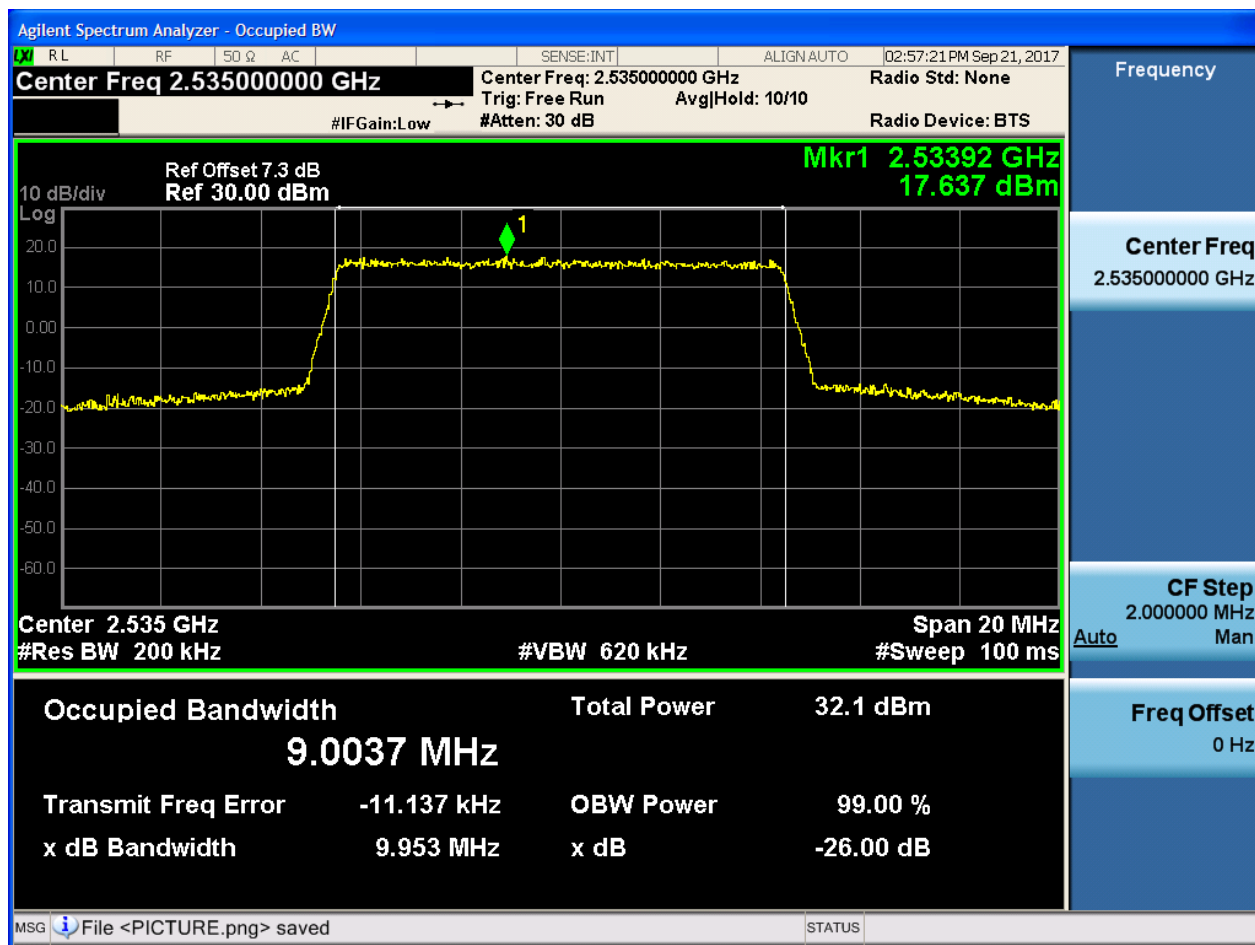
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

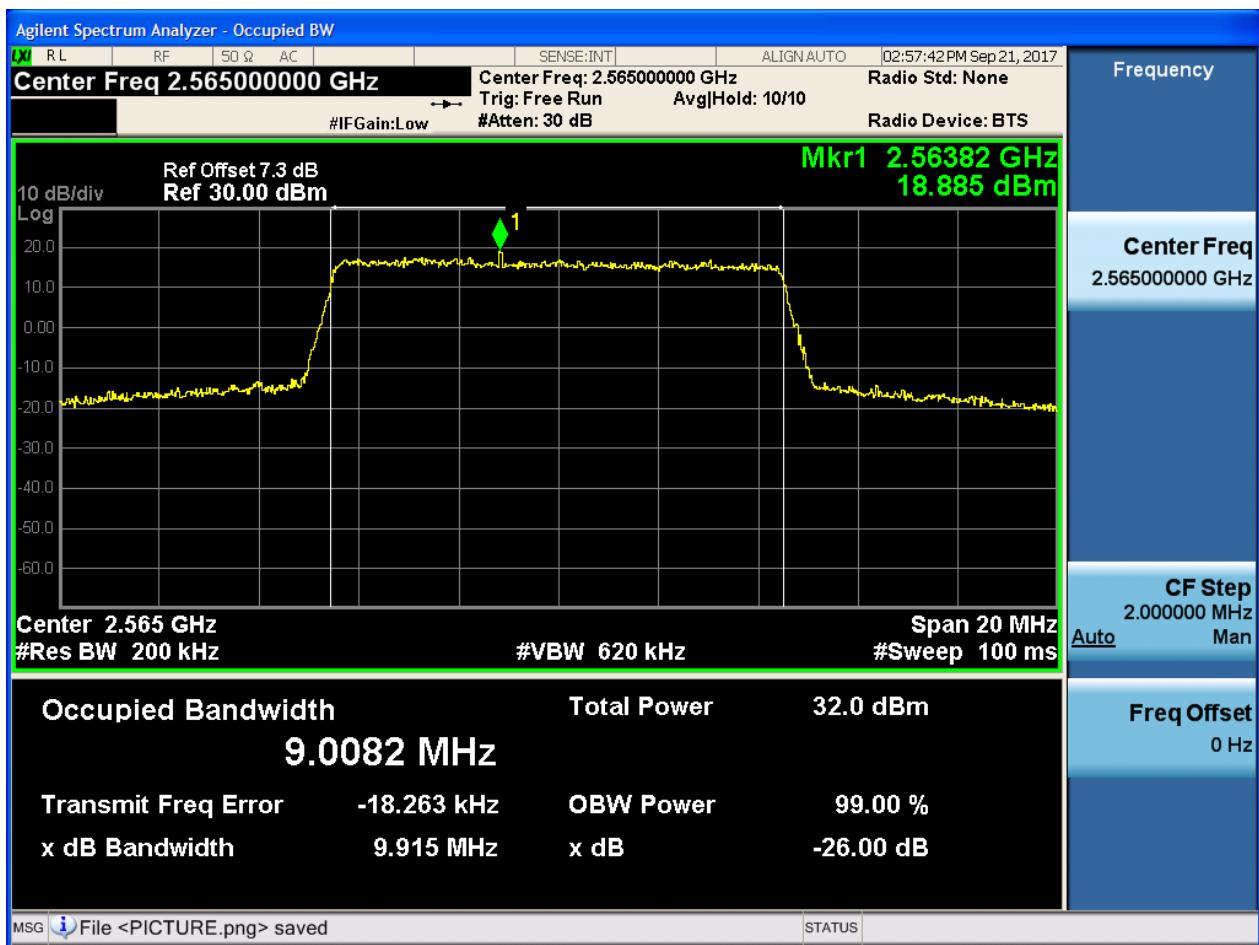
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

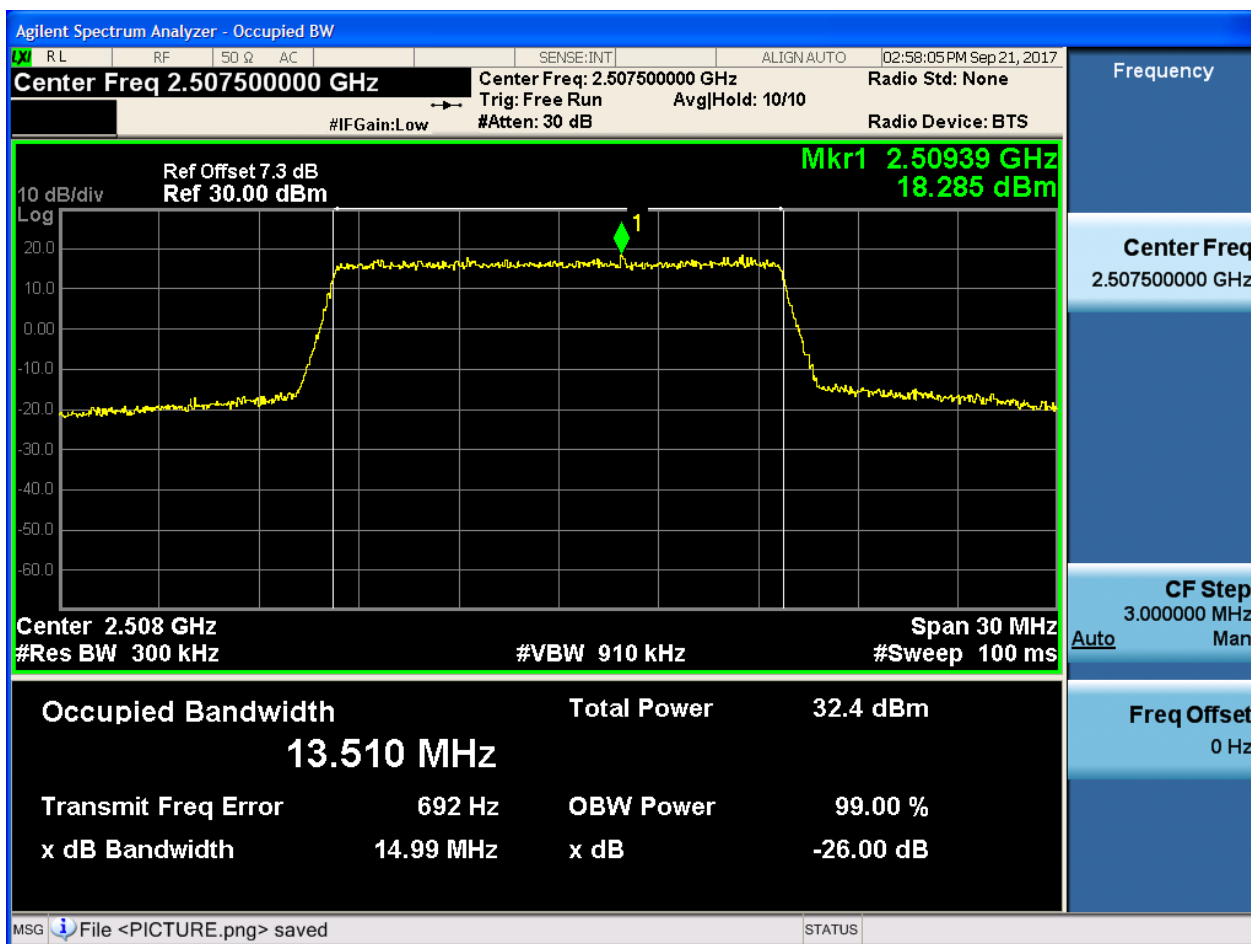




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

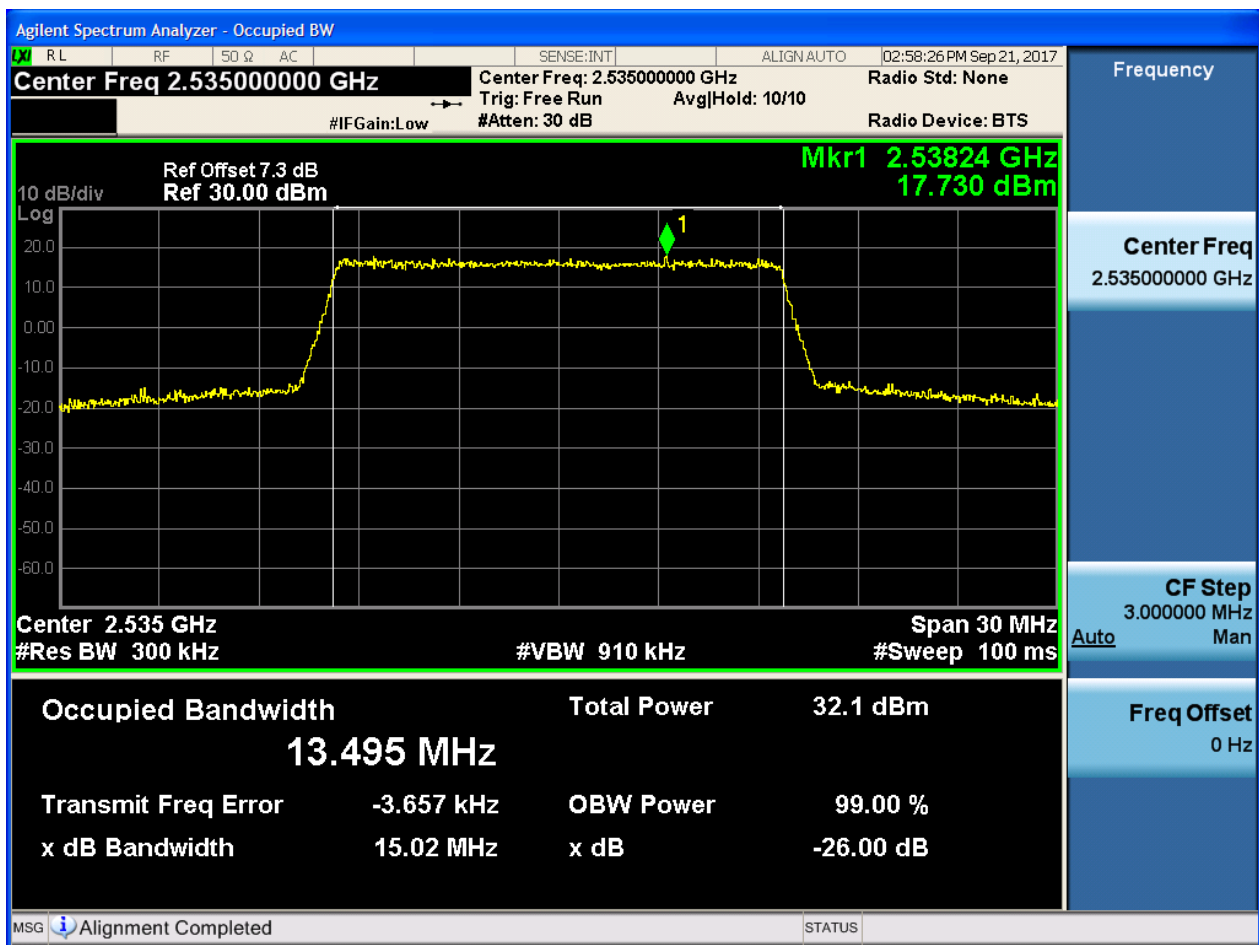
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

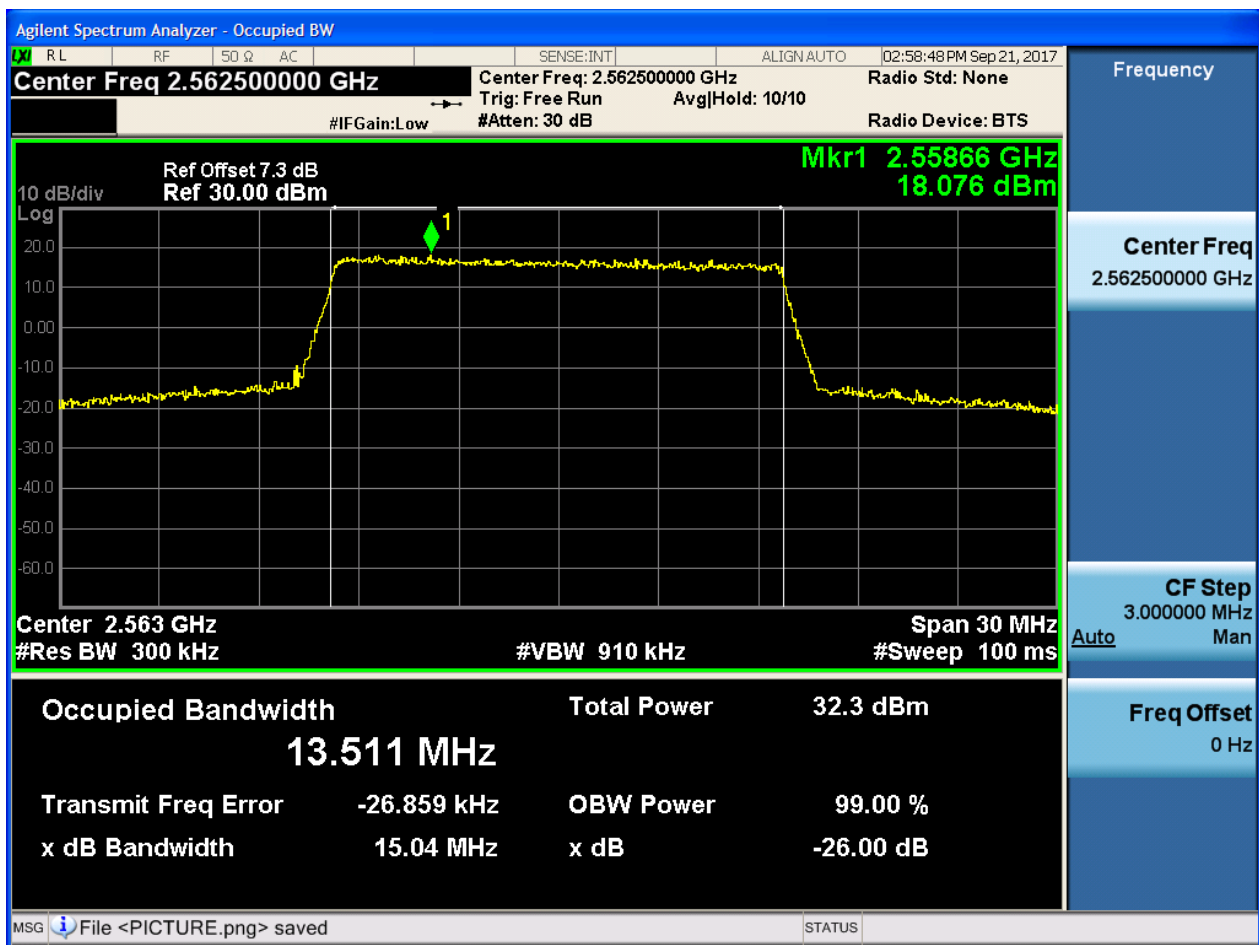
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

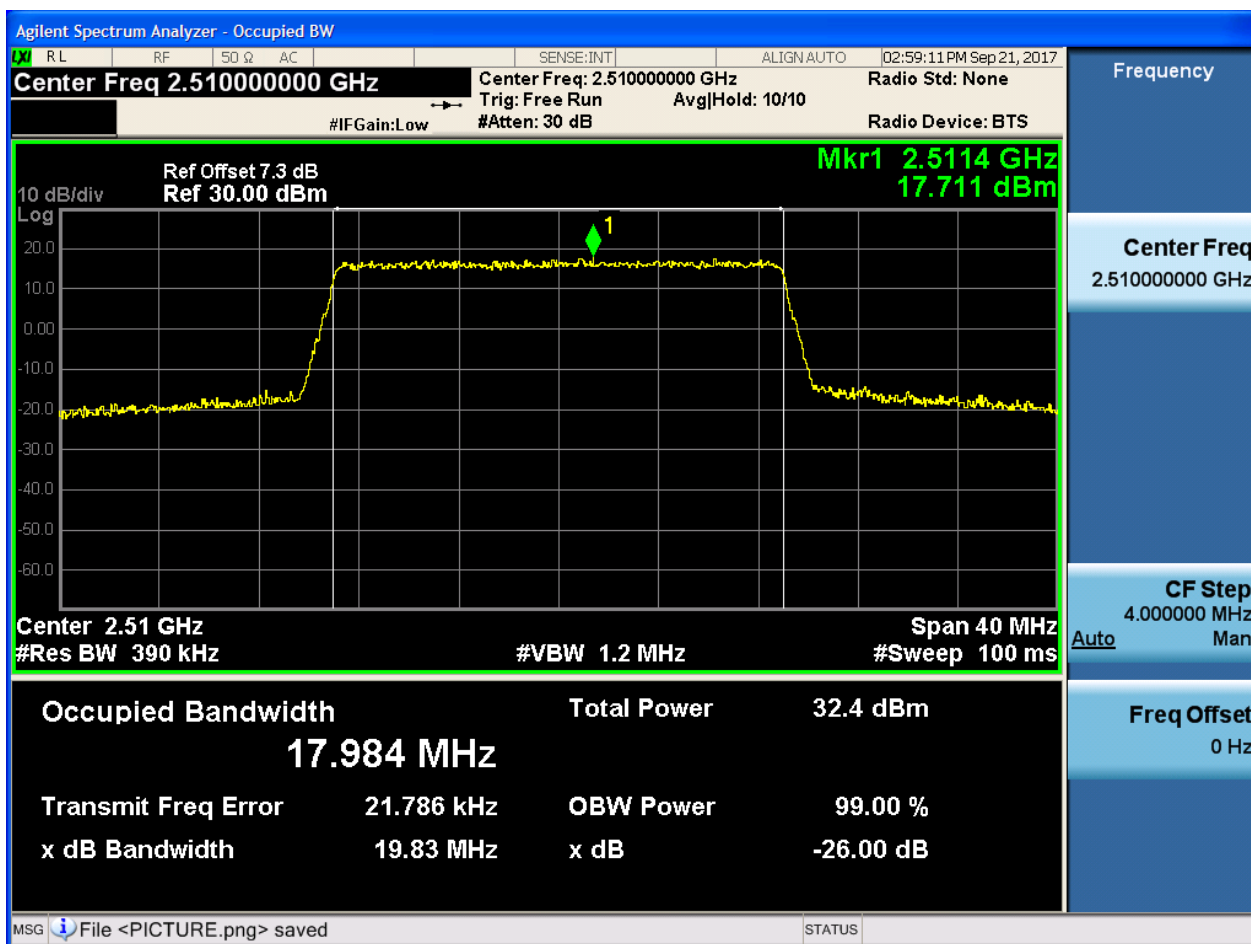




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

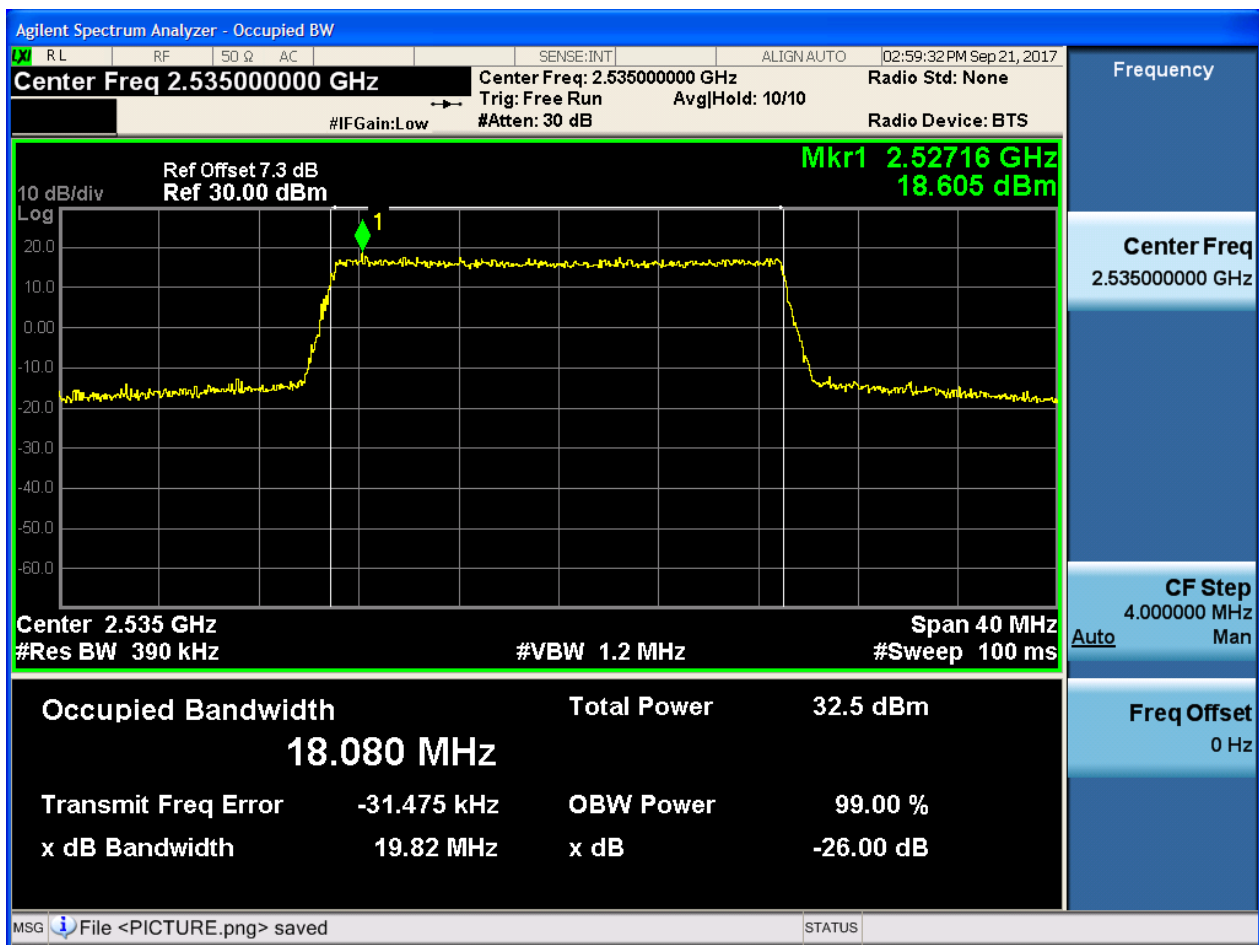
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

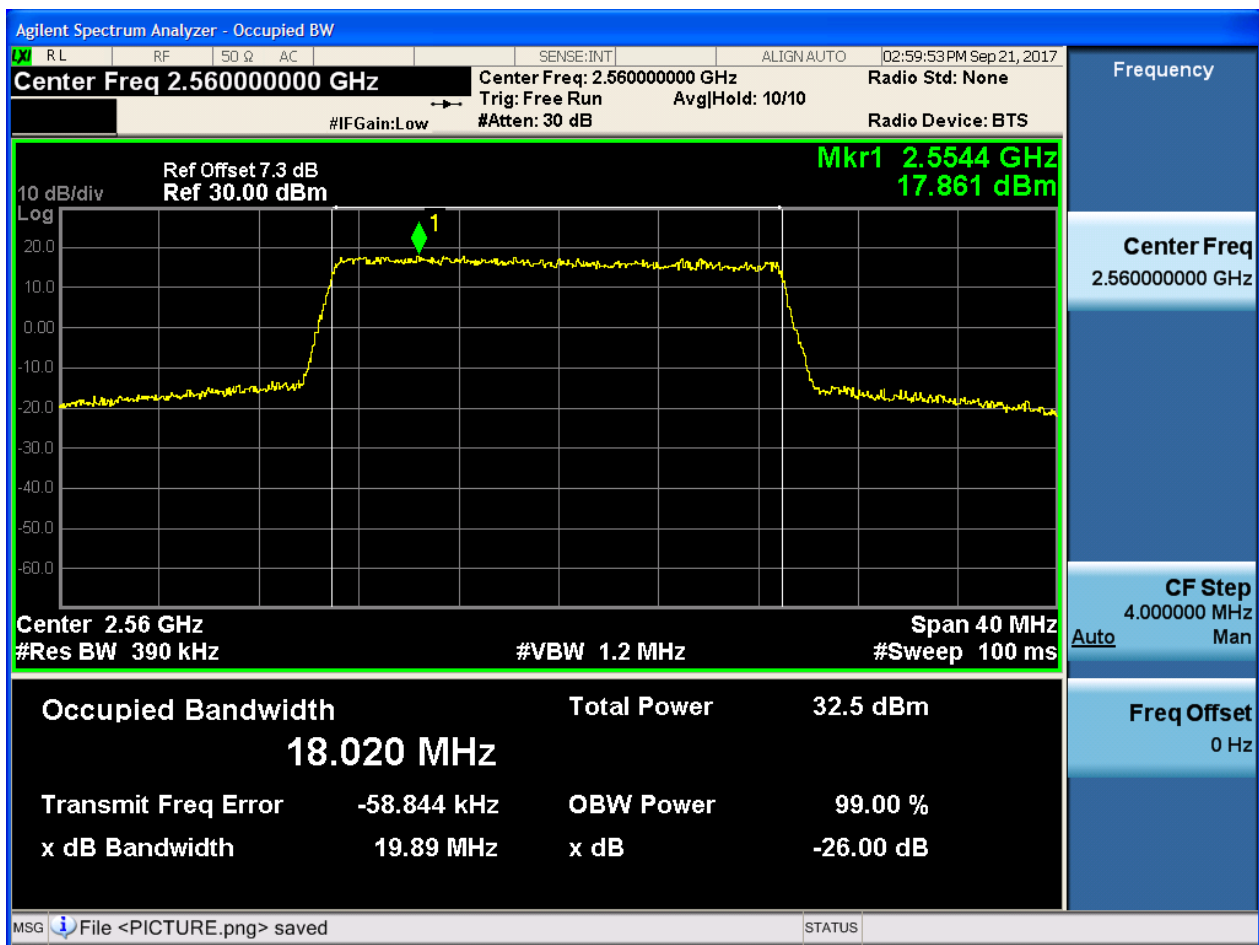
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



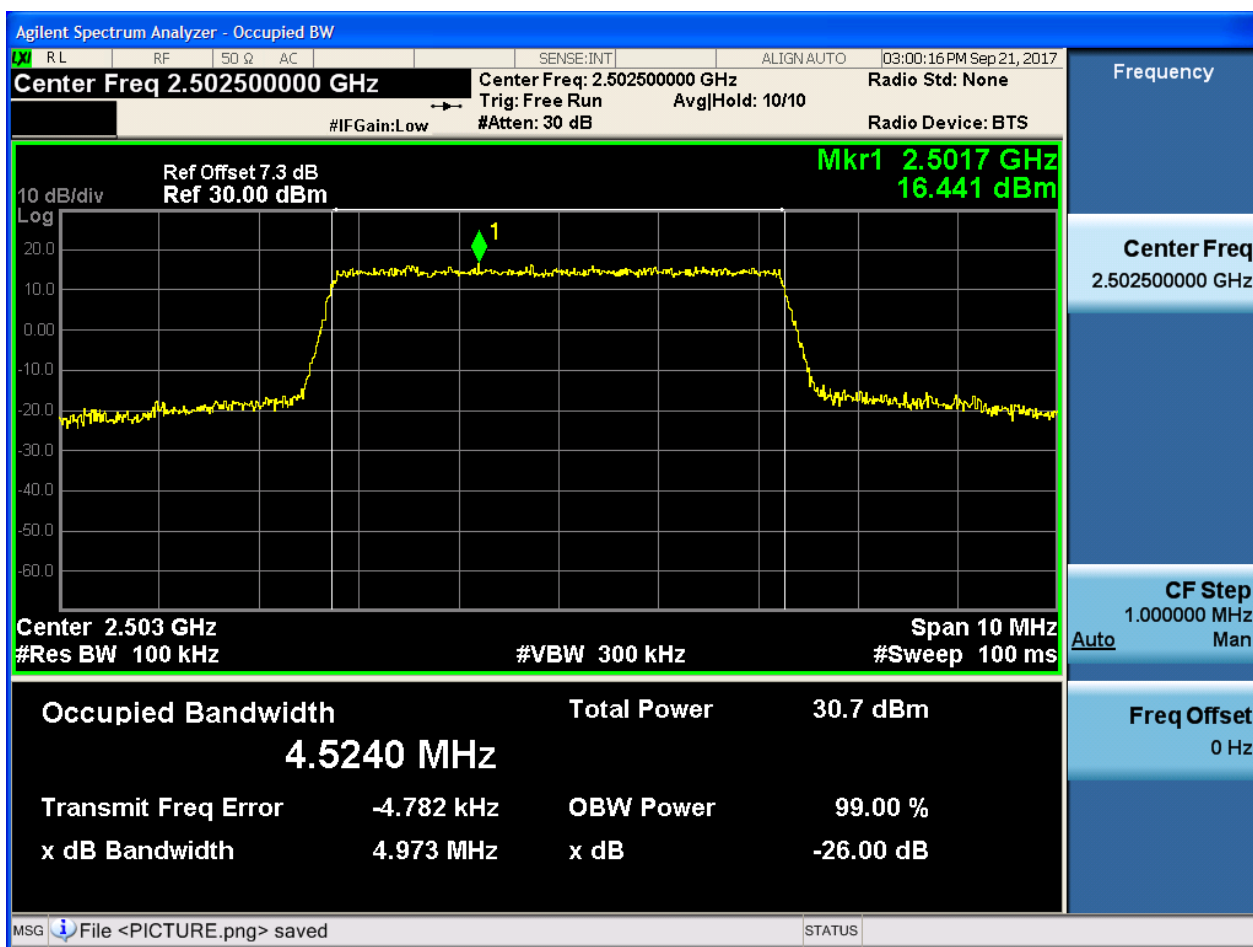


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

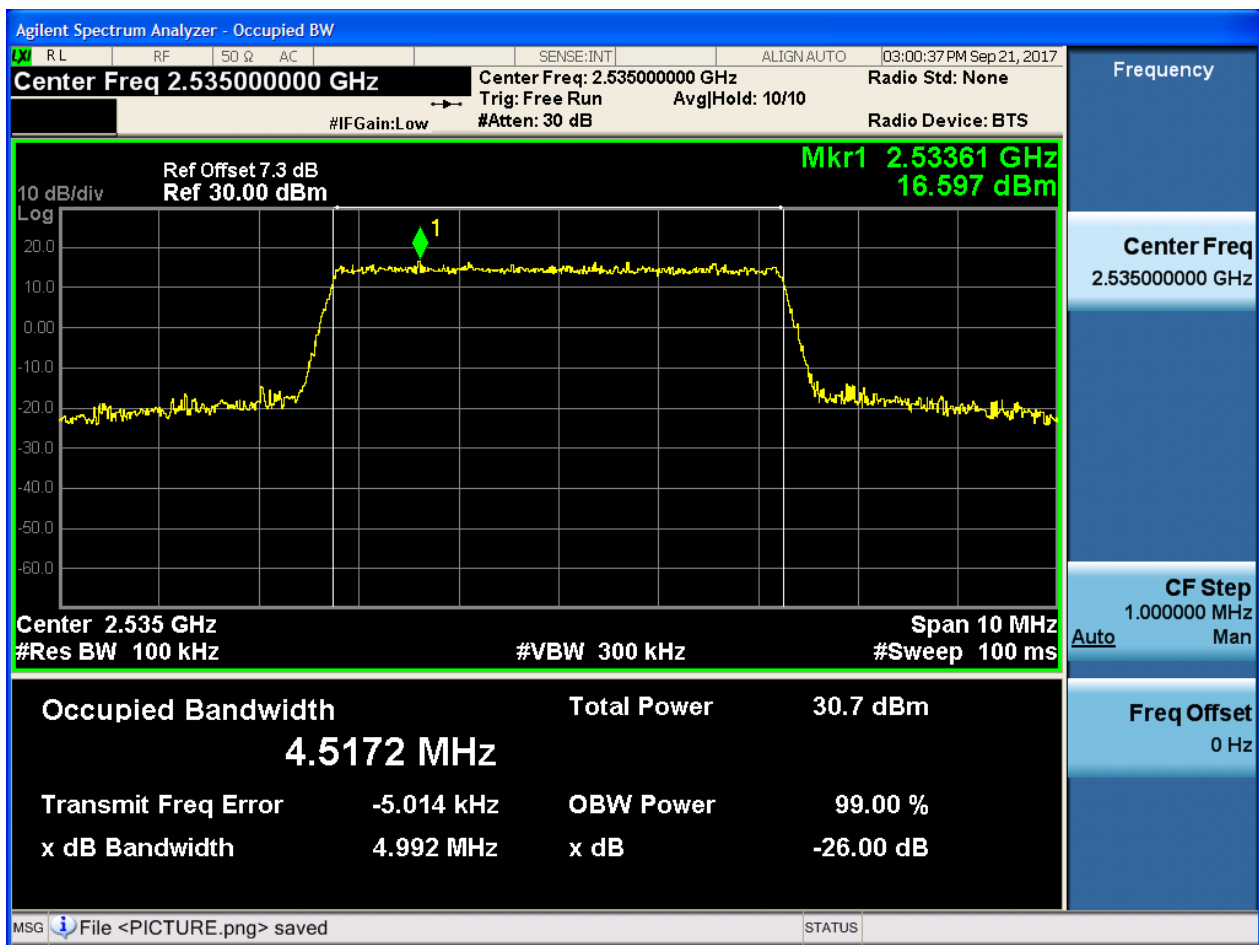
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

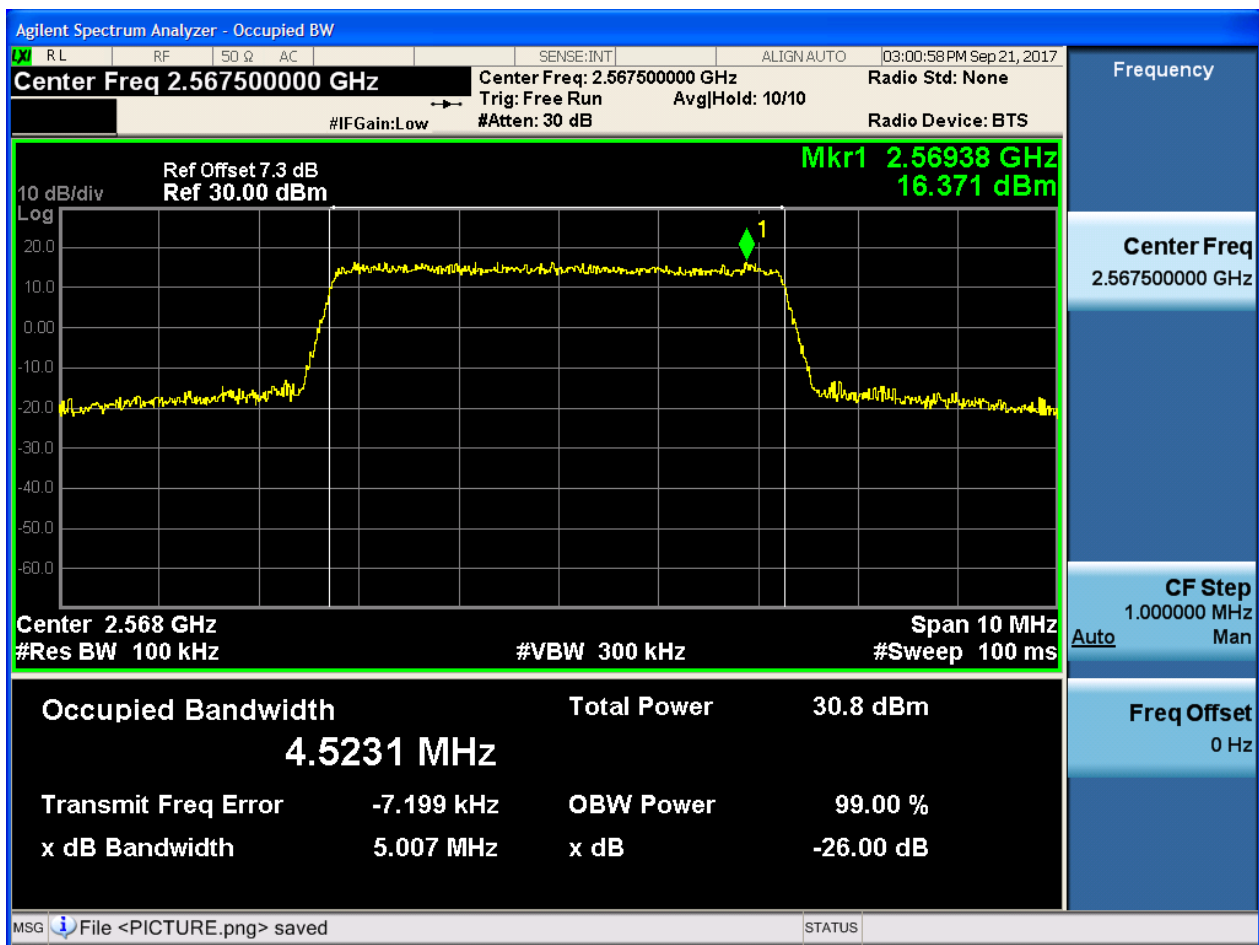
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

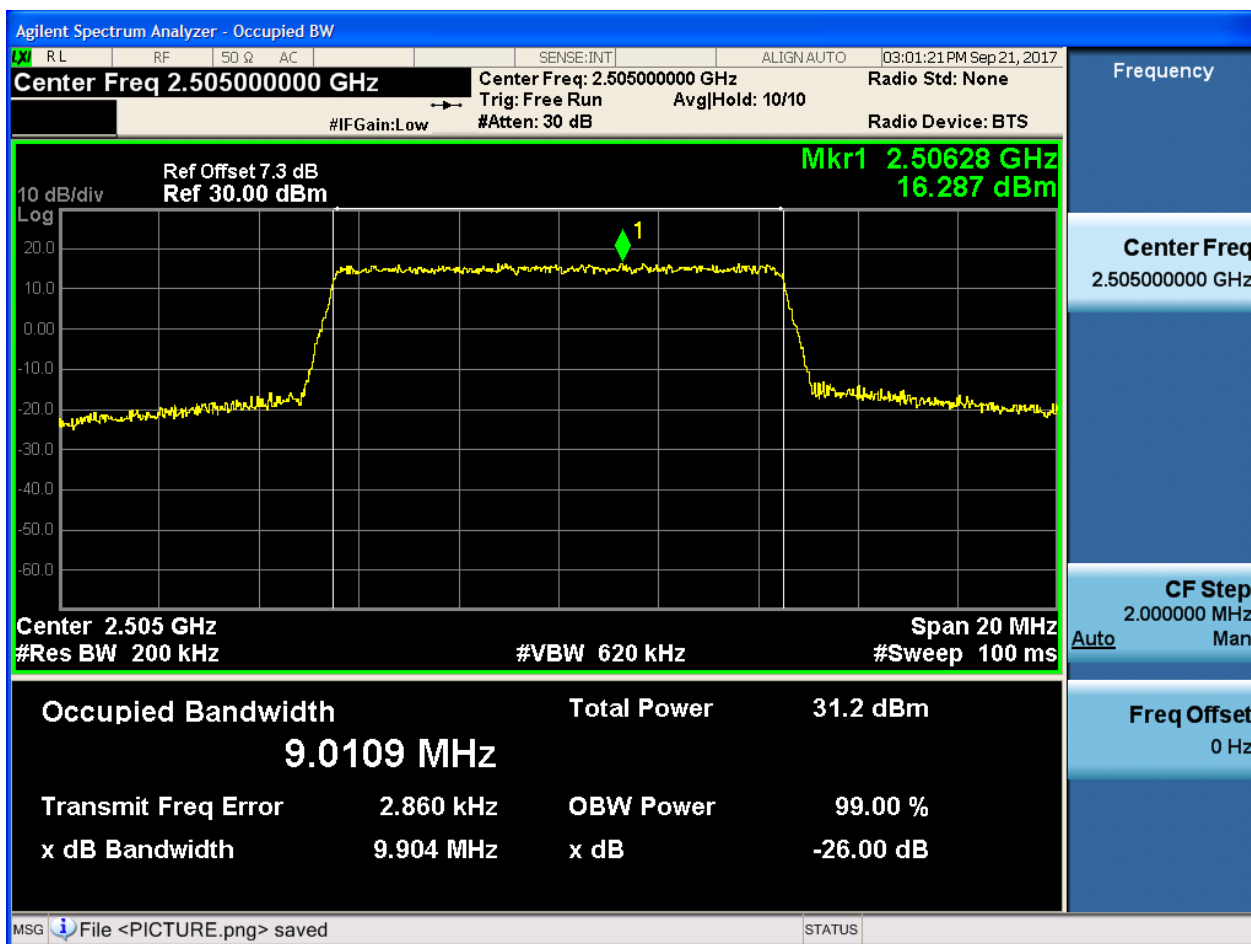




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

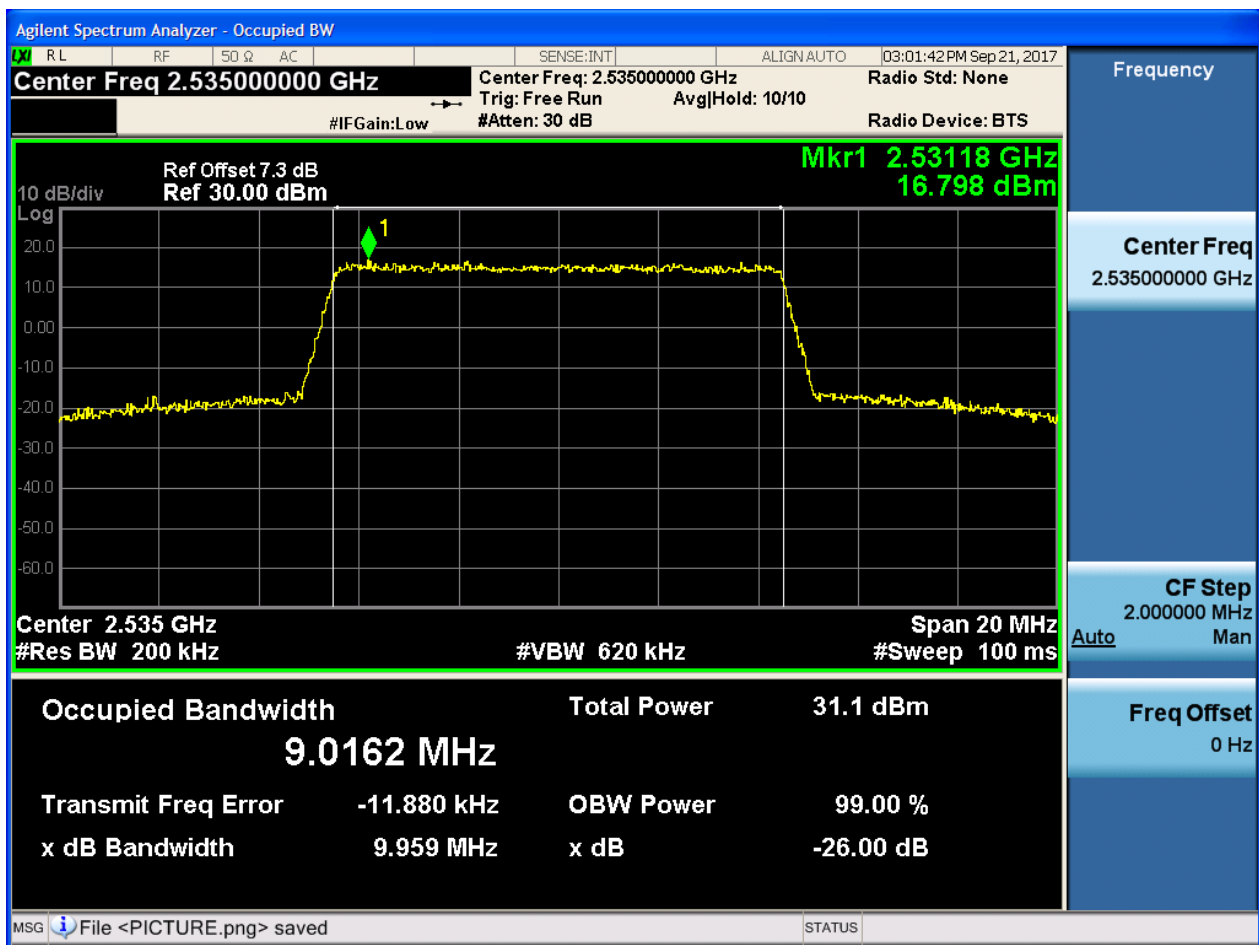
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

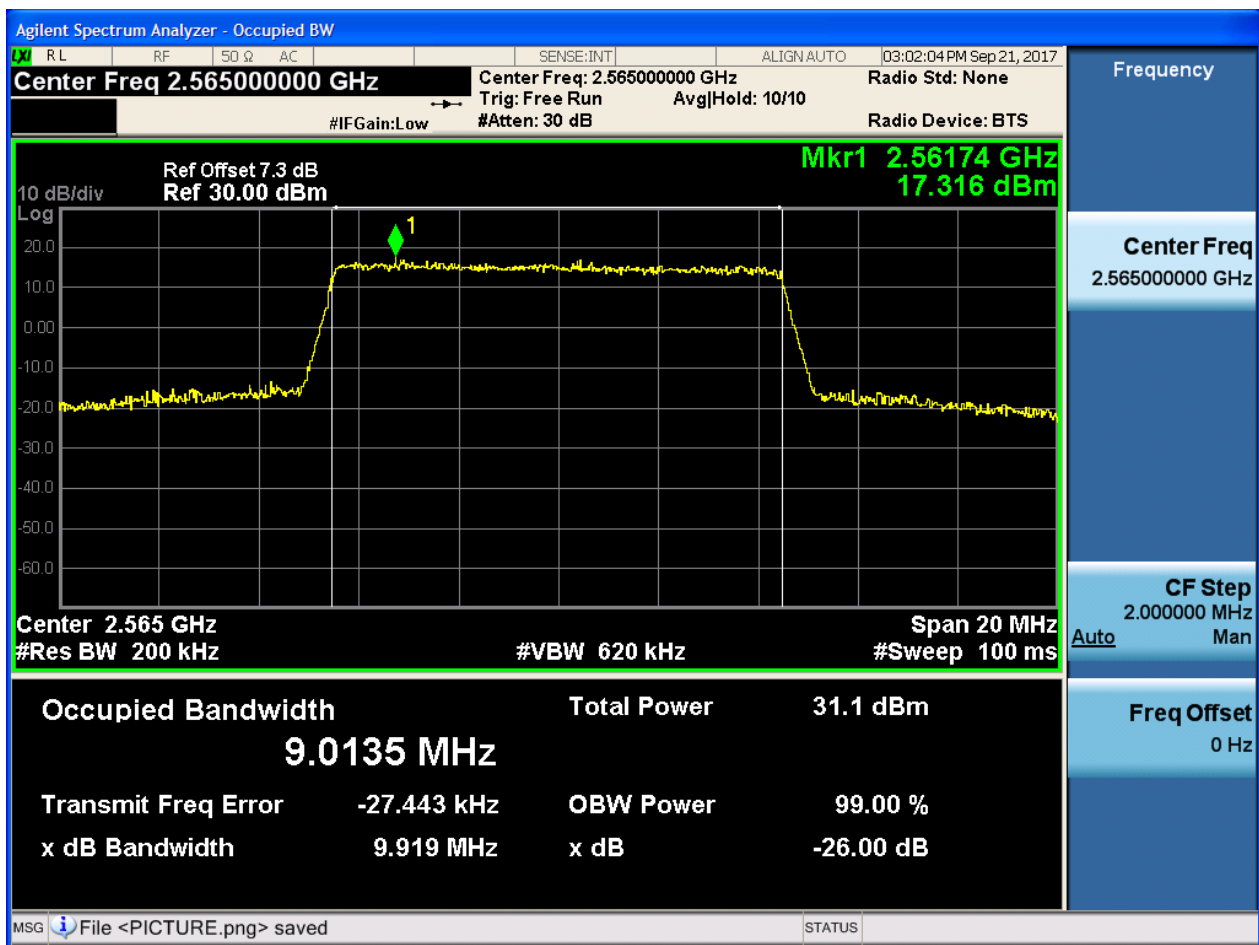
4.1.1.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

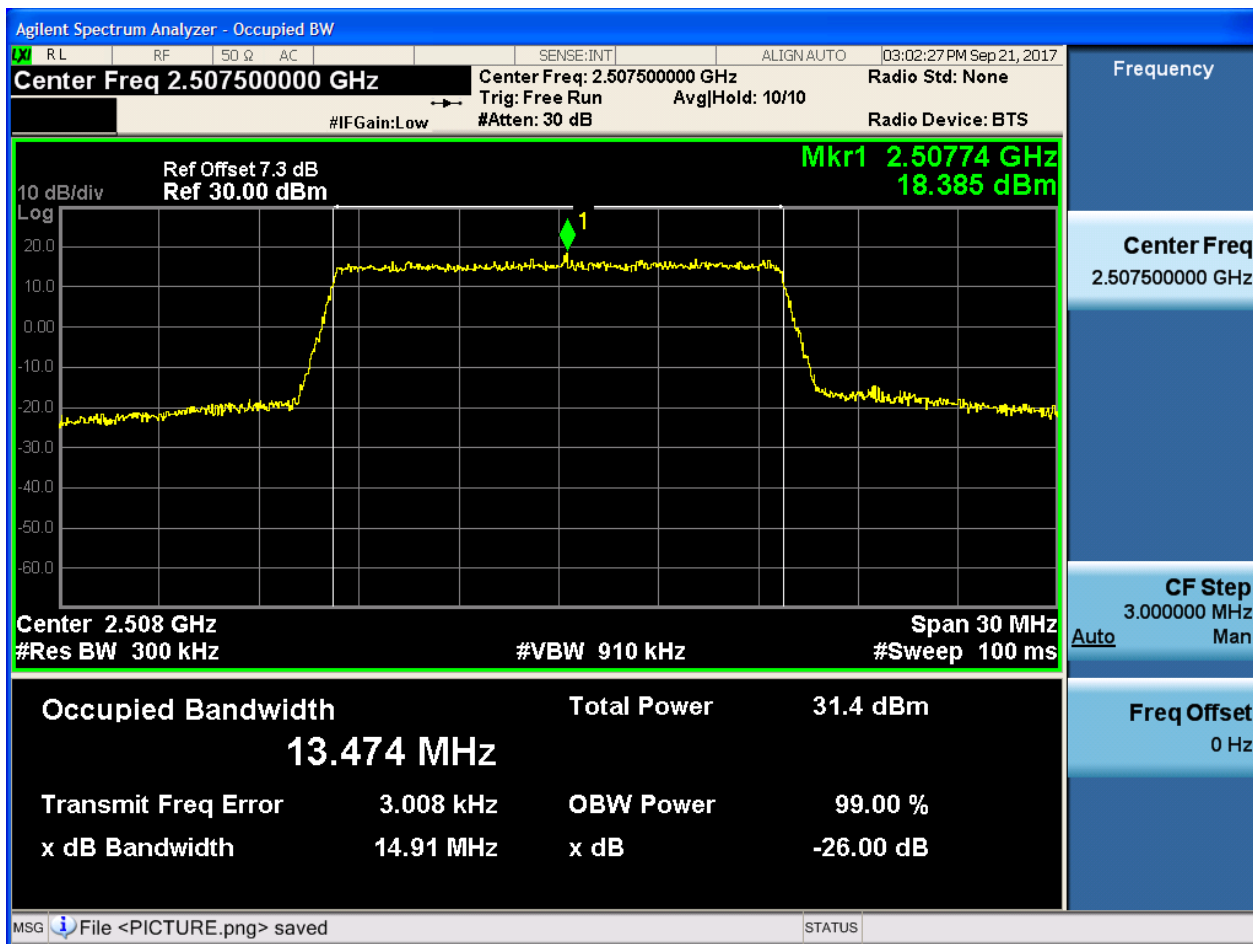




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

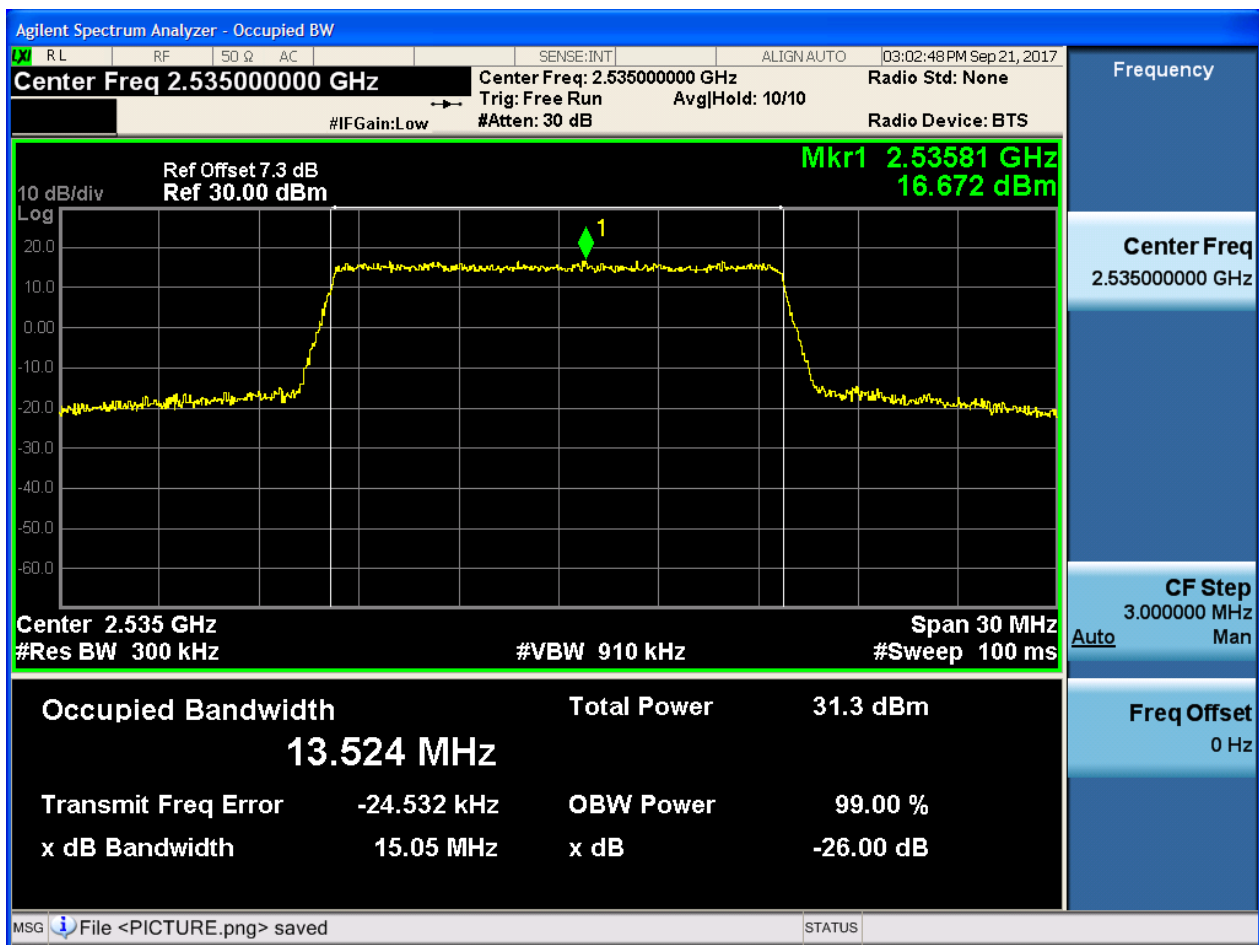
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

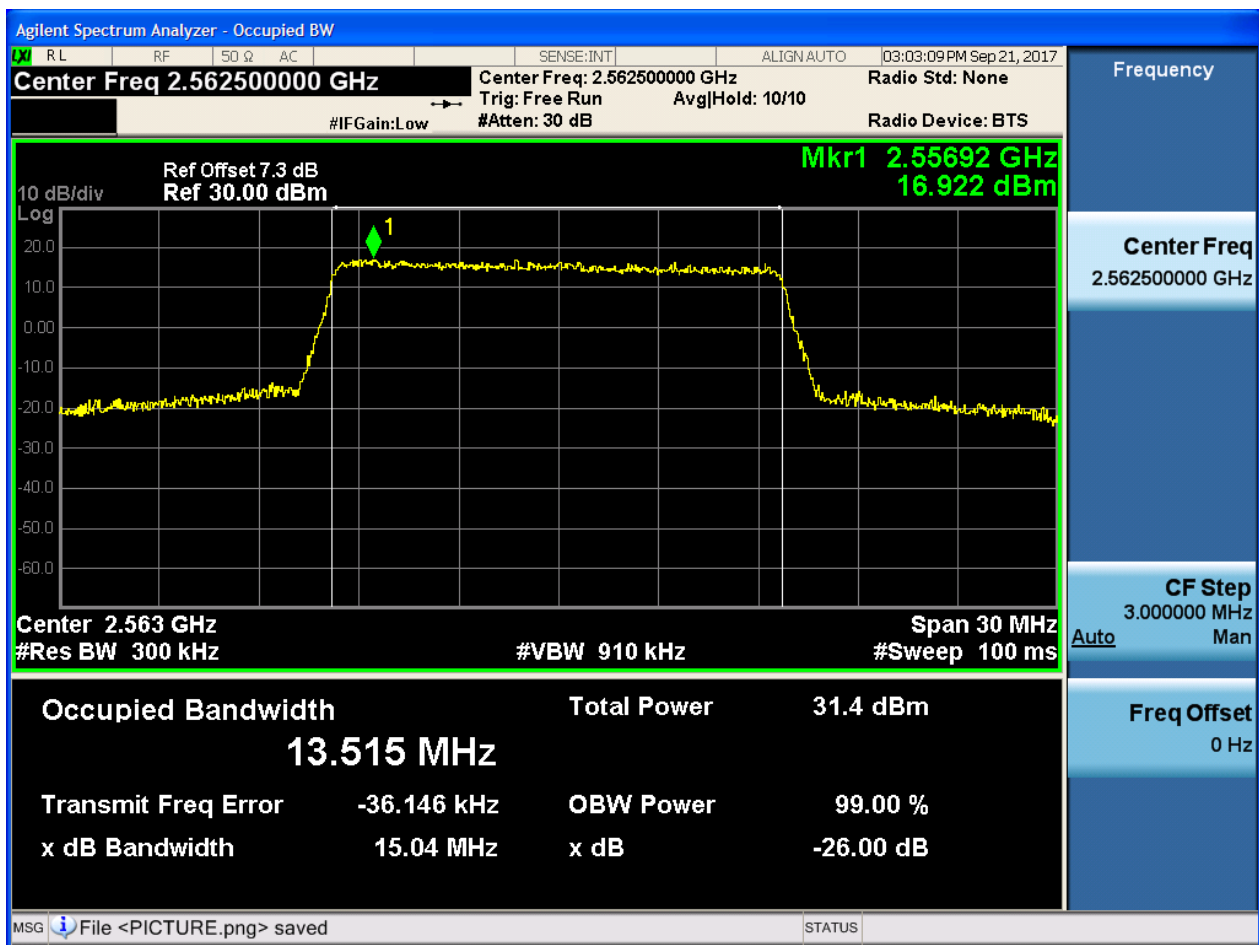
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

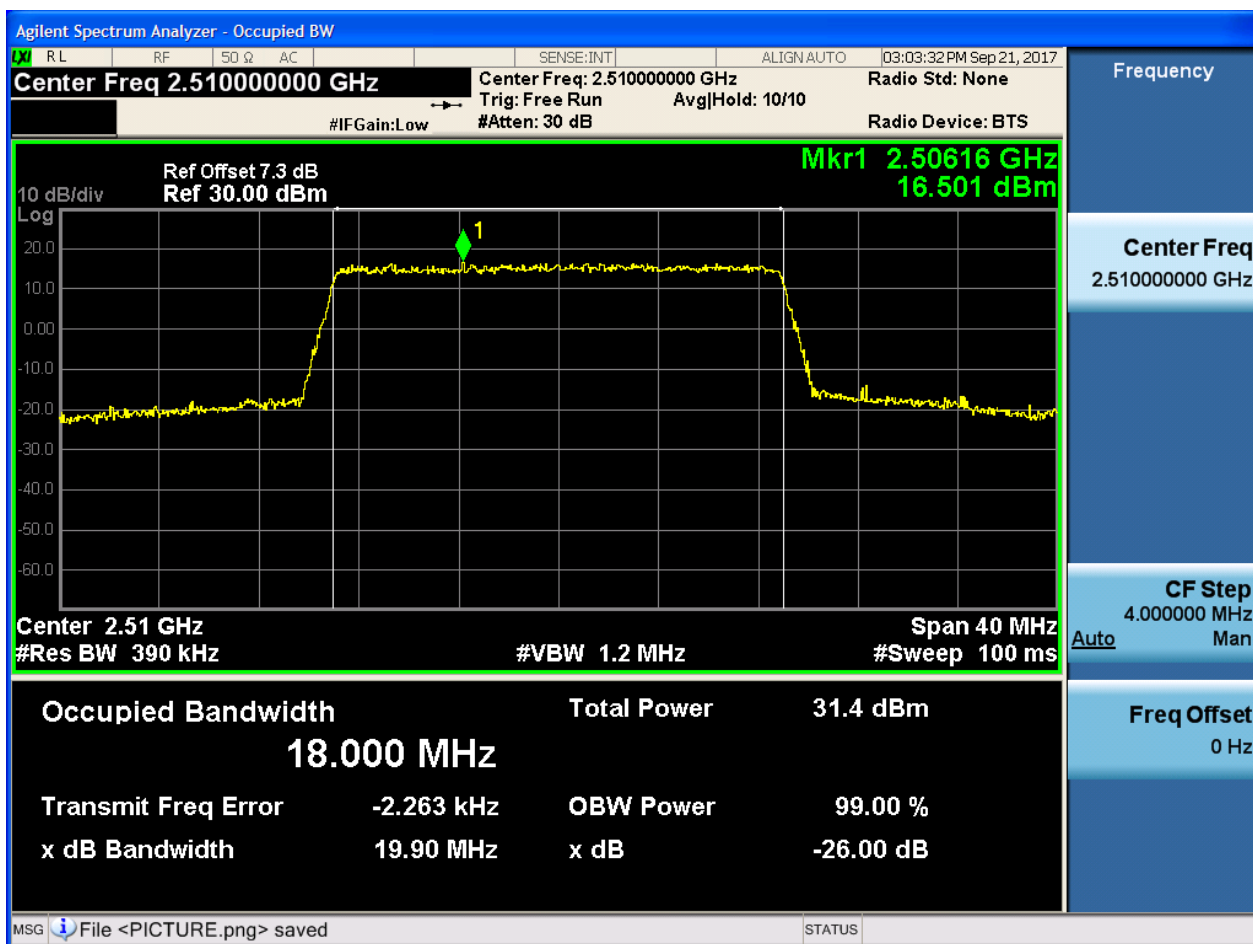




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

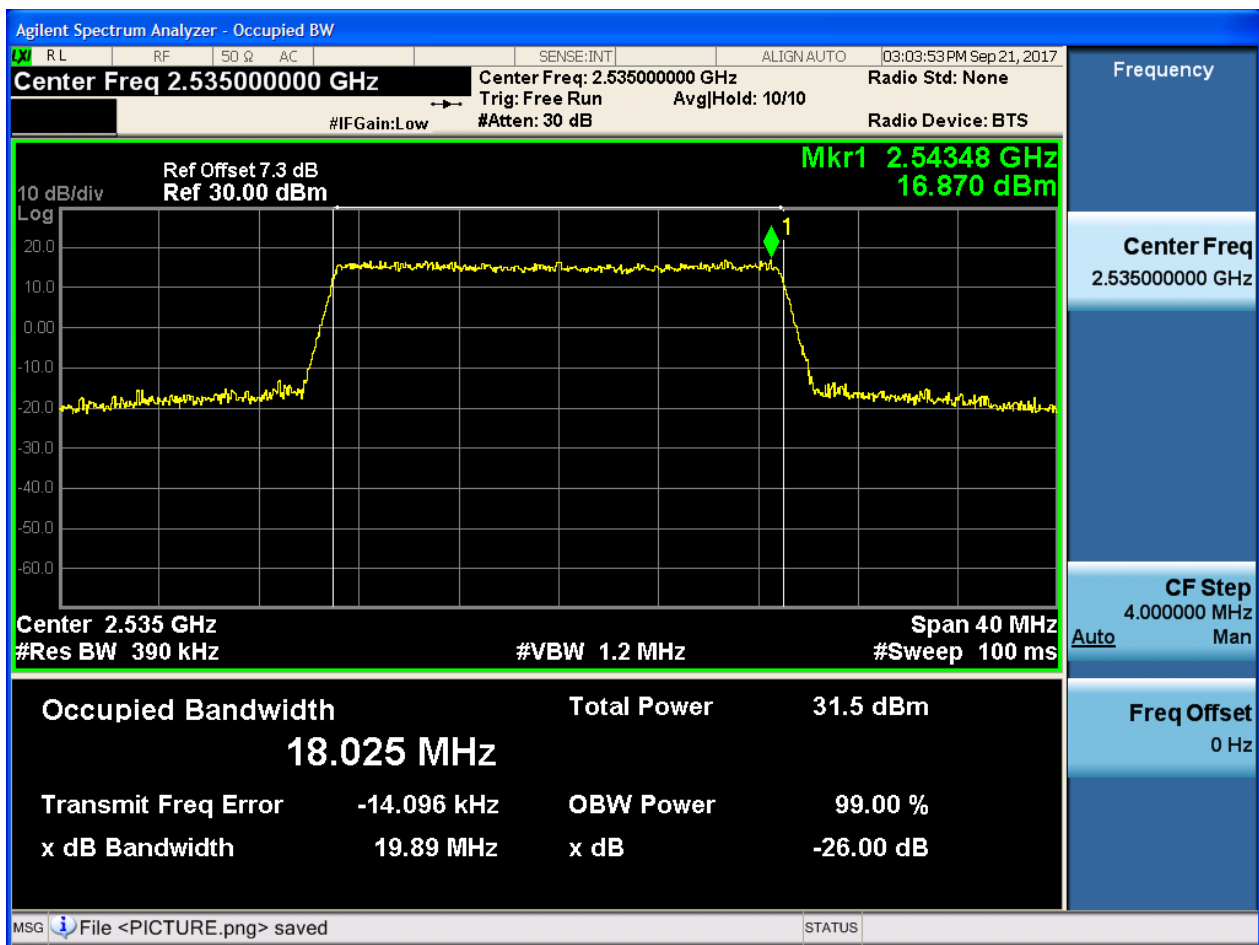
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

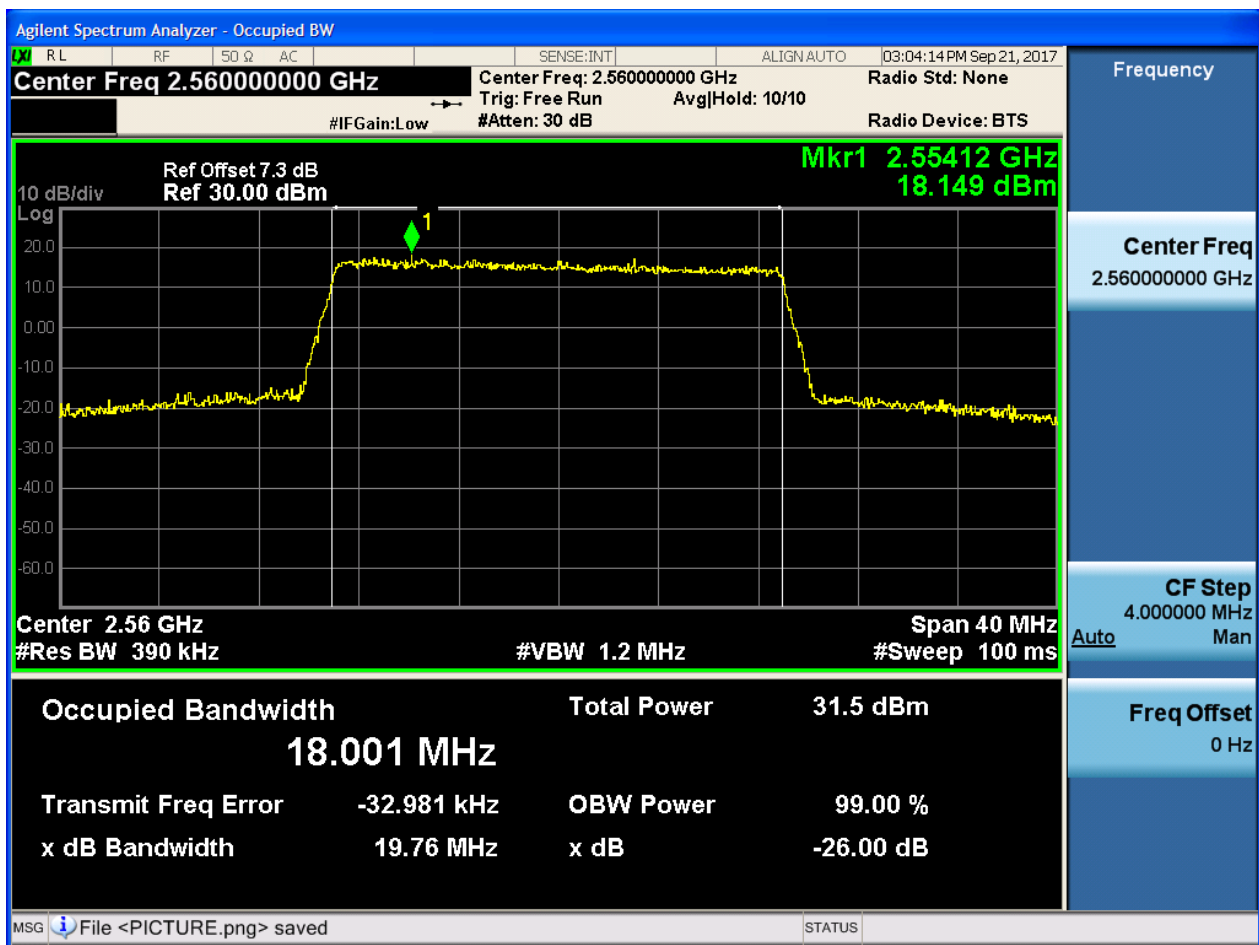
4.1.1.2.4.2.1 Test RB = RB100#0





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

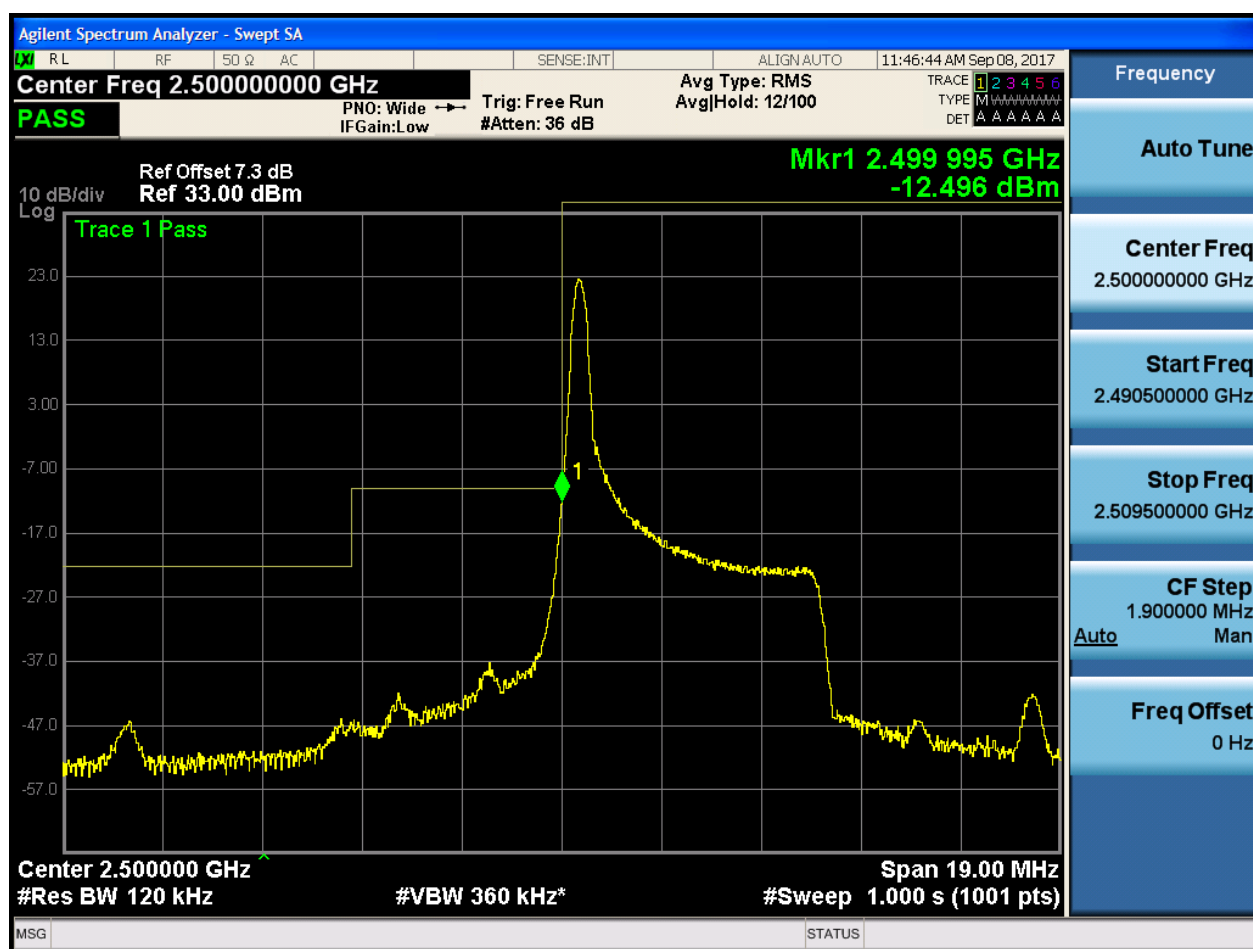
5.1.1 Test Band = BAND7

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:47:21 AM Sep 08, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-24.434 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz

#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

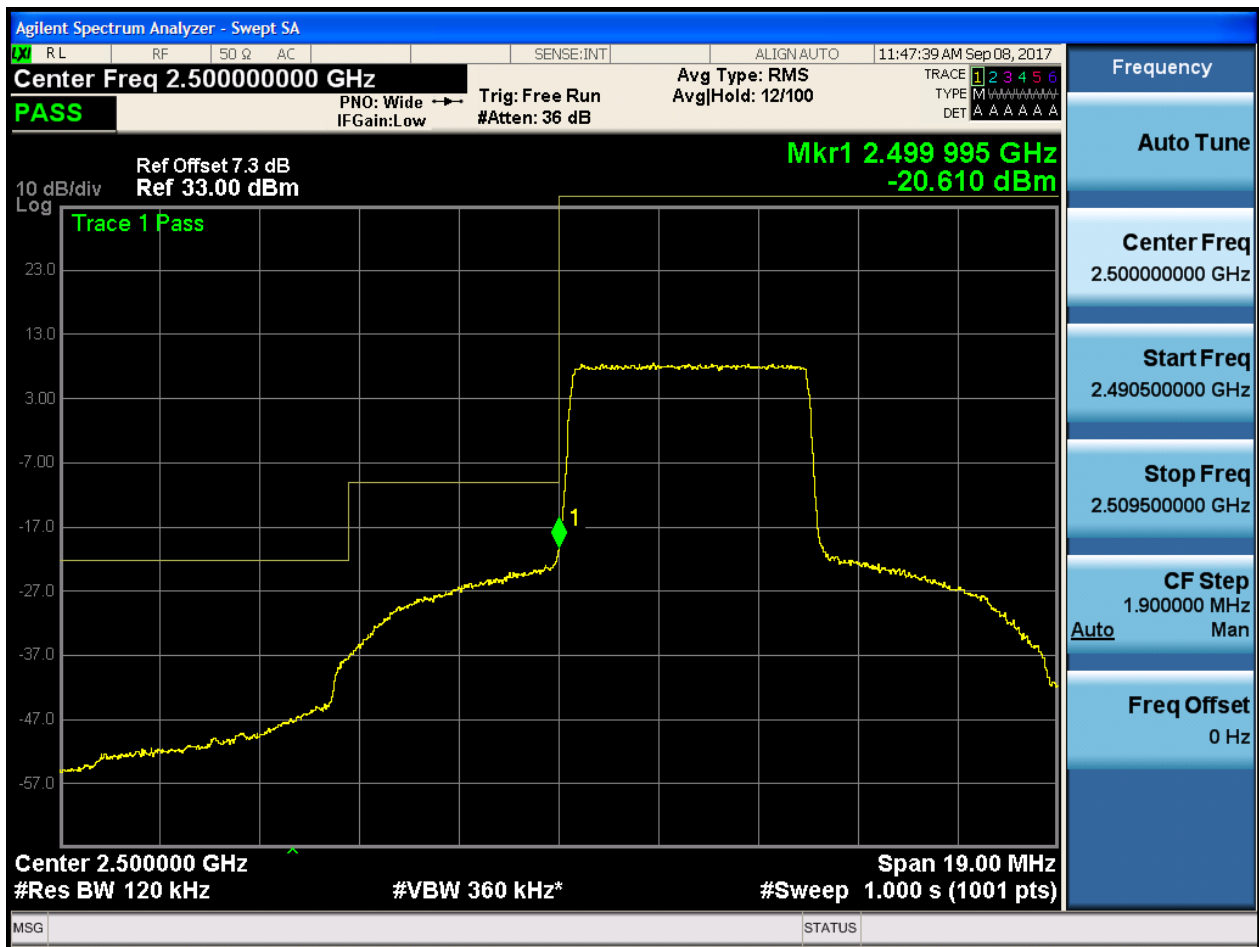
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



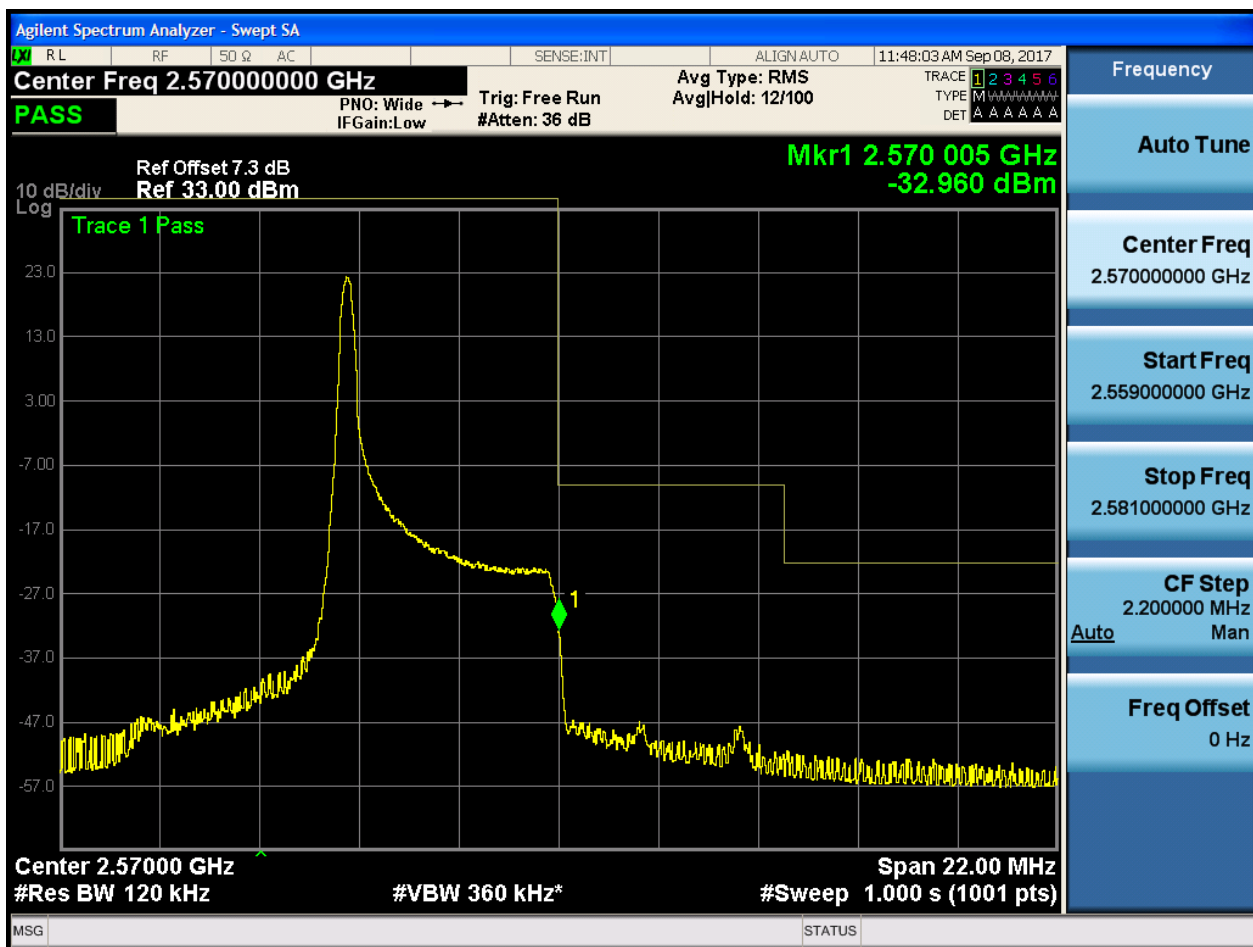
5.1.1.1.1.4 Test RB = RB25#0





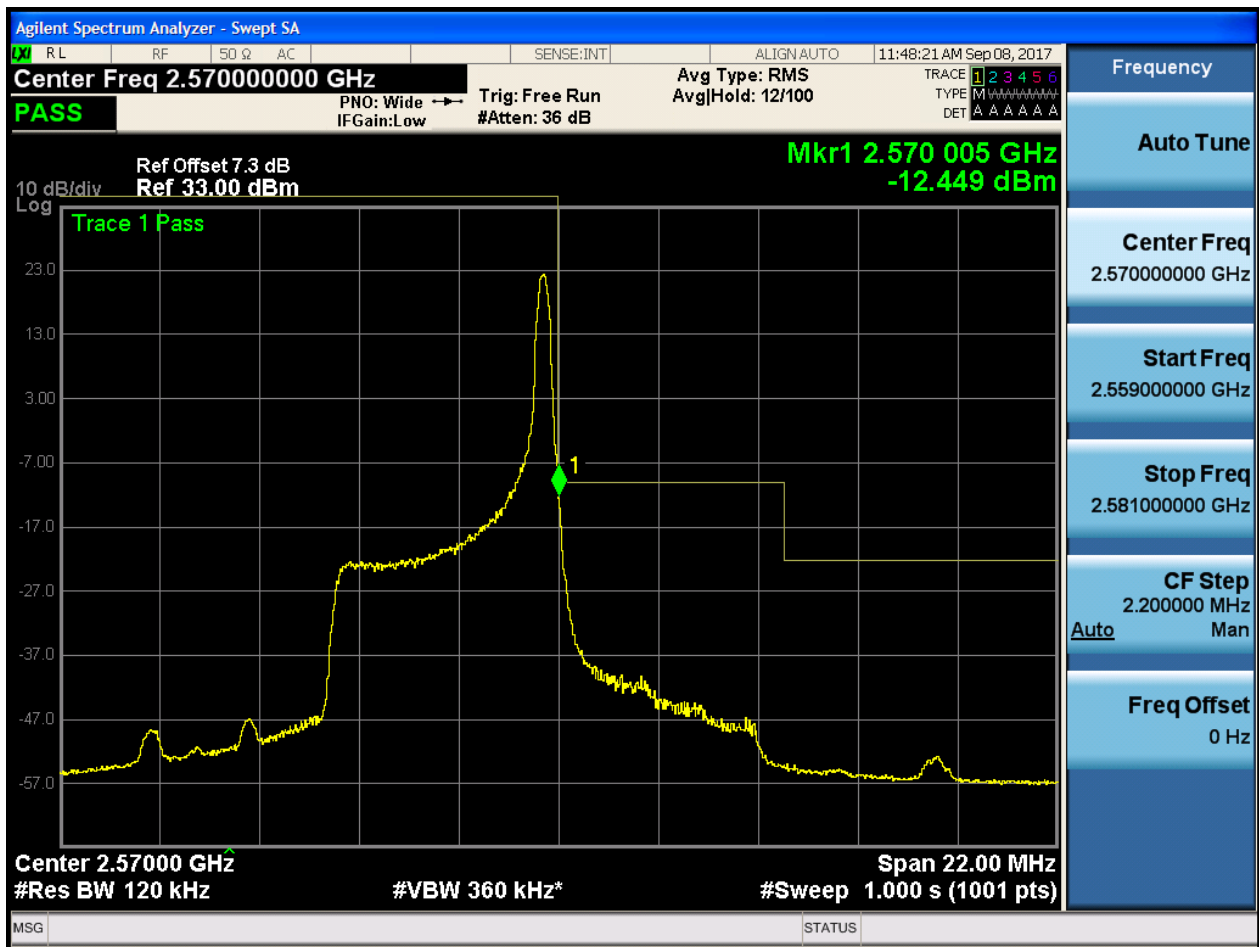
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



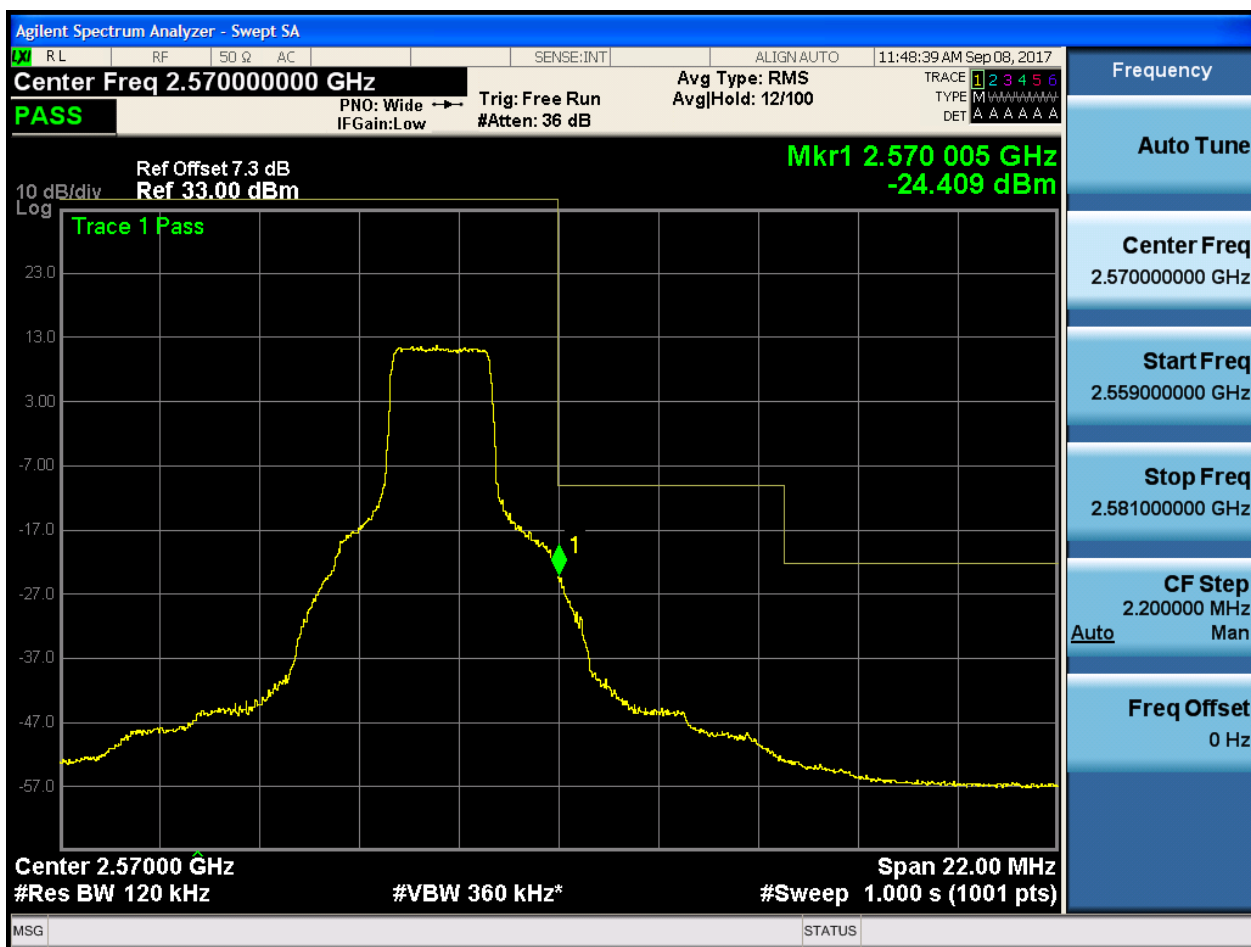


5.1.1.1.2.2 Test RB = RB1#24



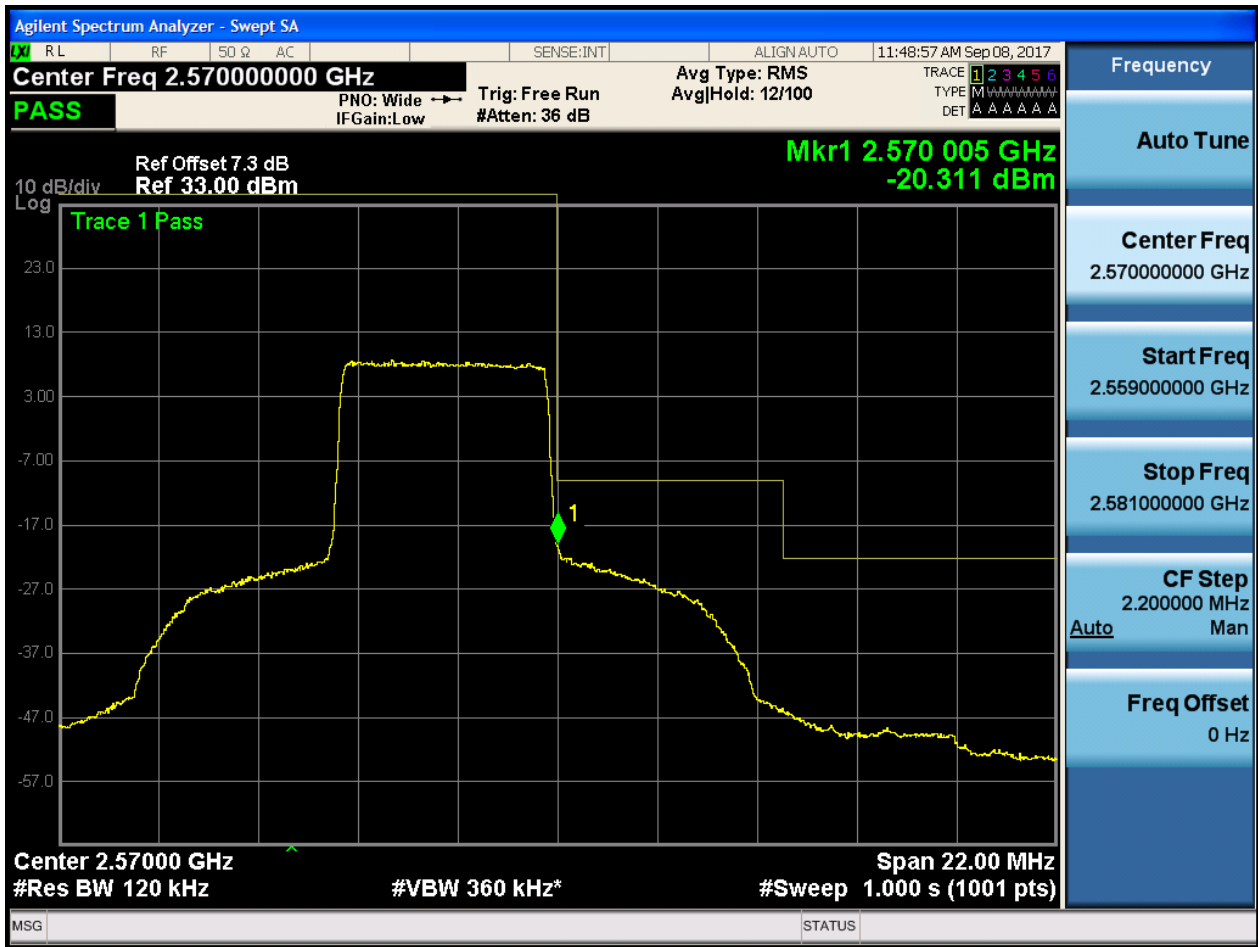


5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

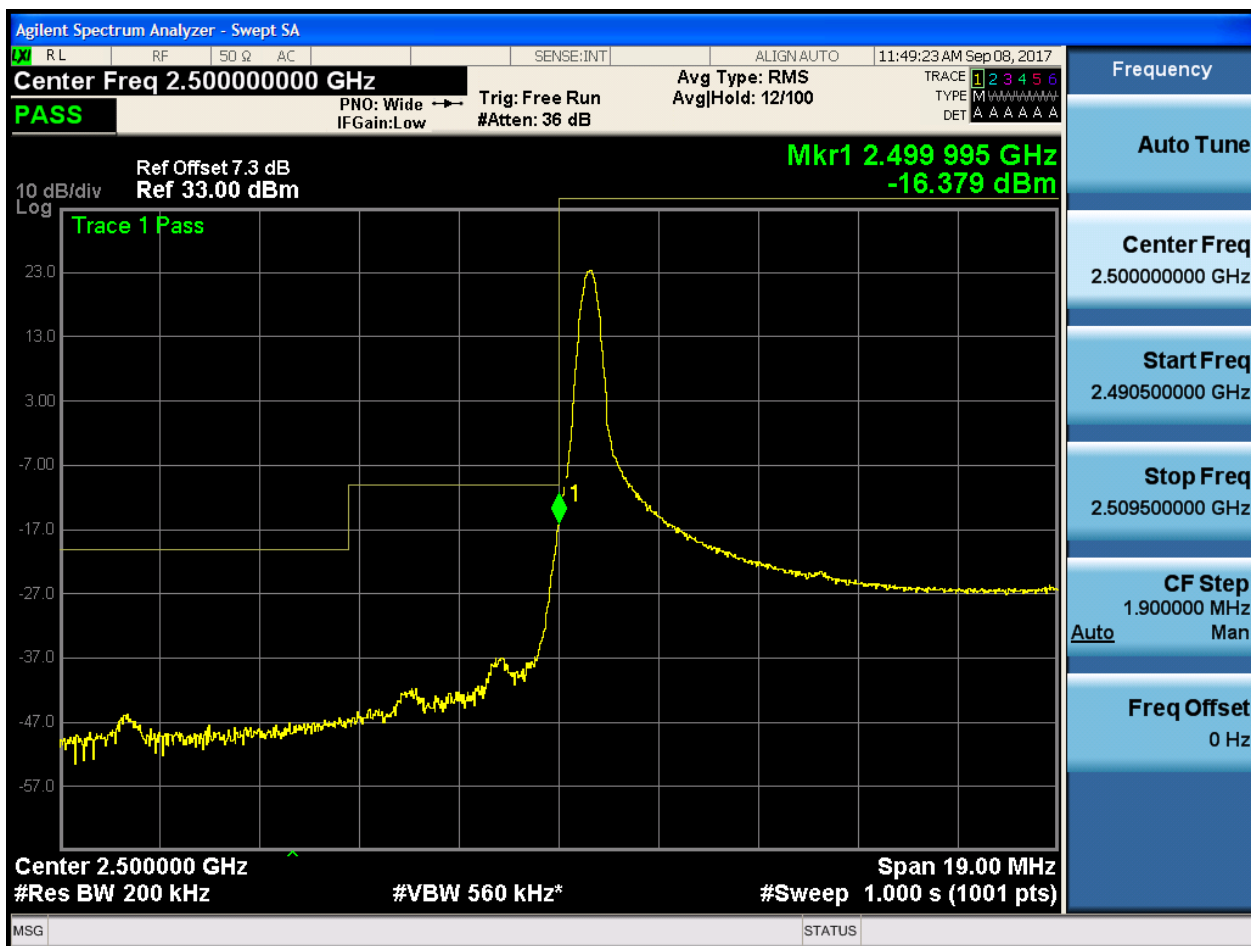




5.1.1.1.2 Test Bandwidth = 10

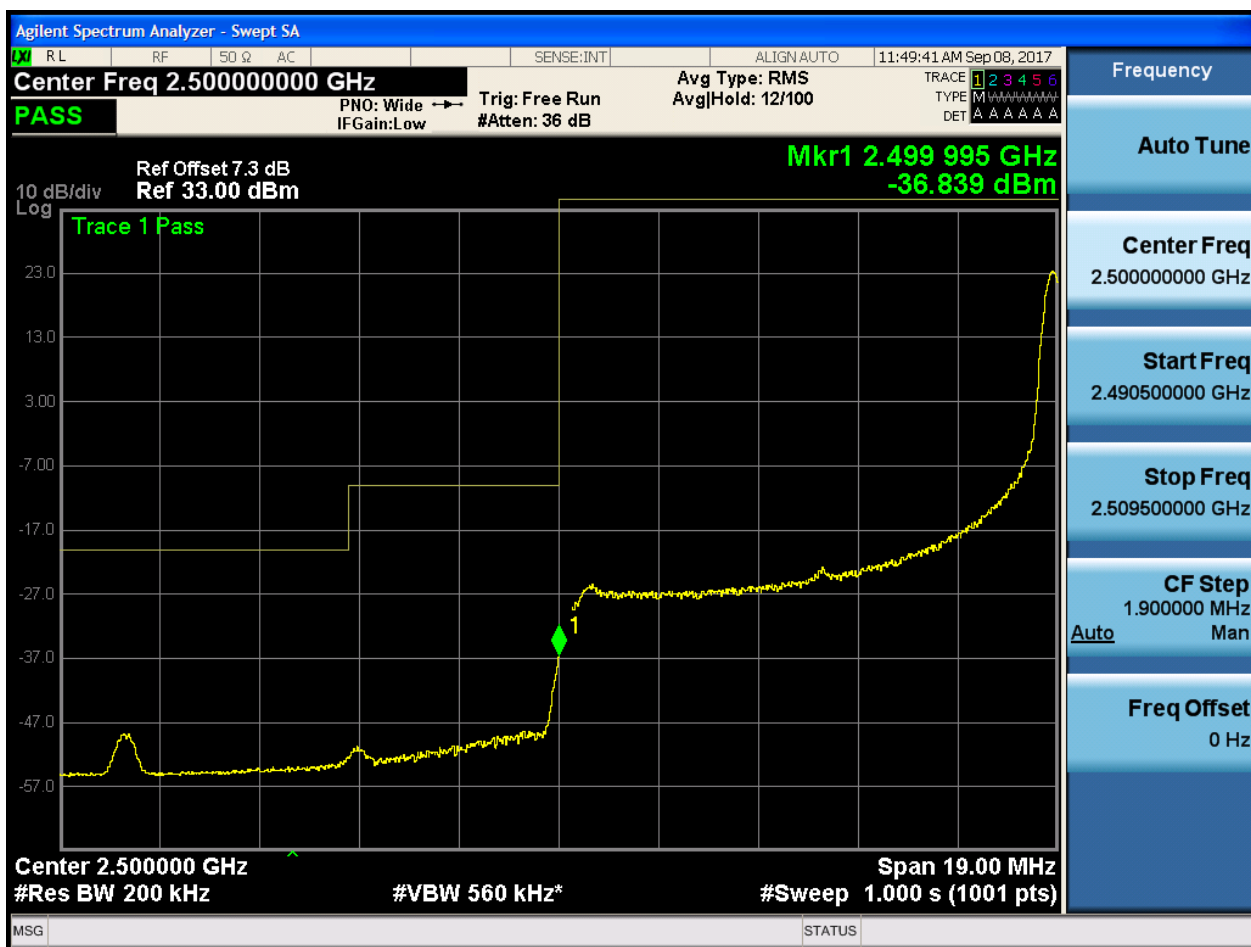
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



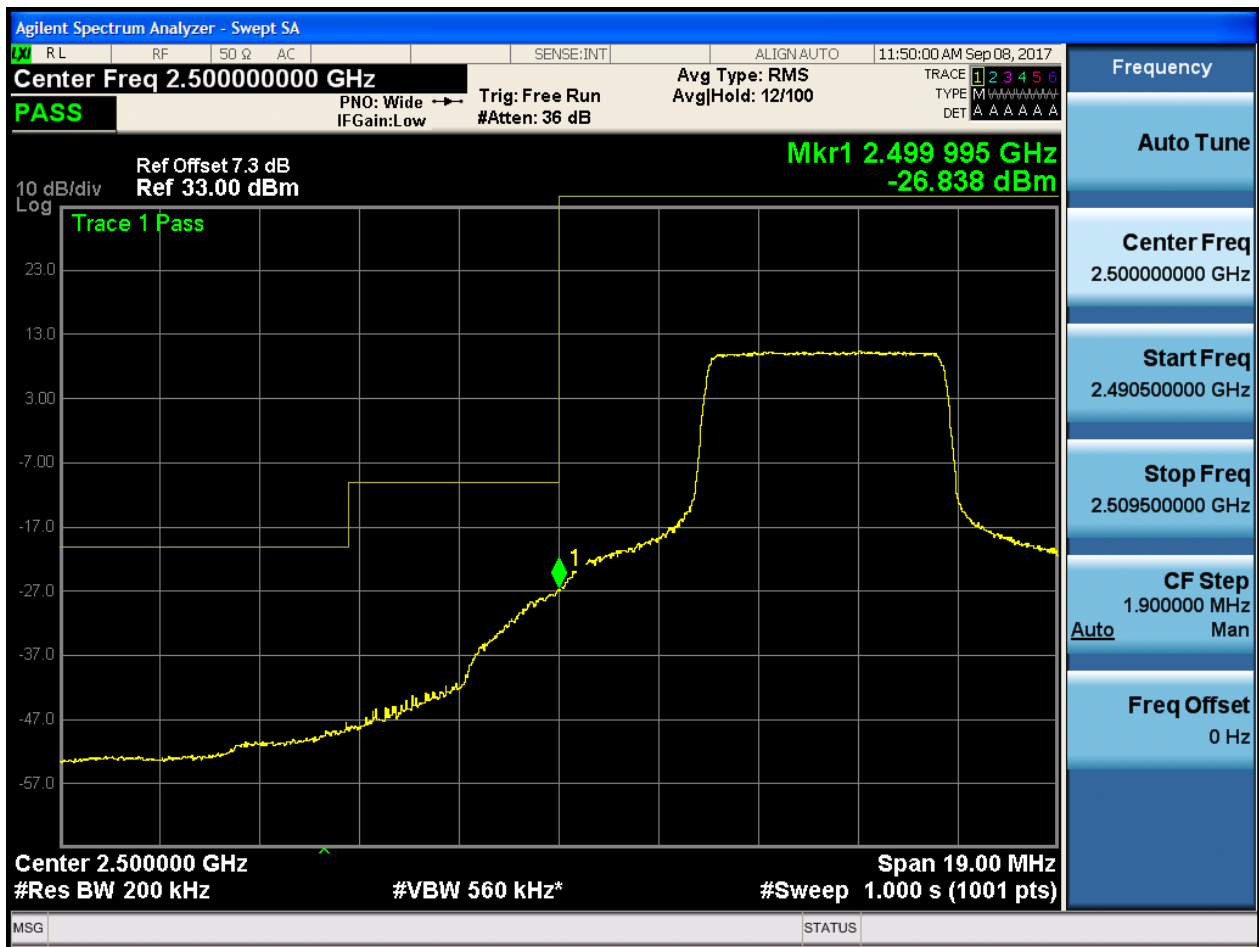


5.1.1.1.2.1.2 Test RB = RB1#49



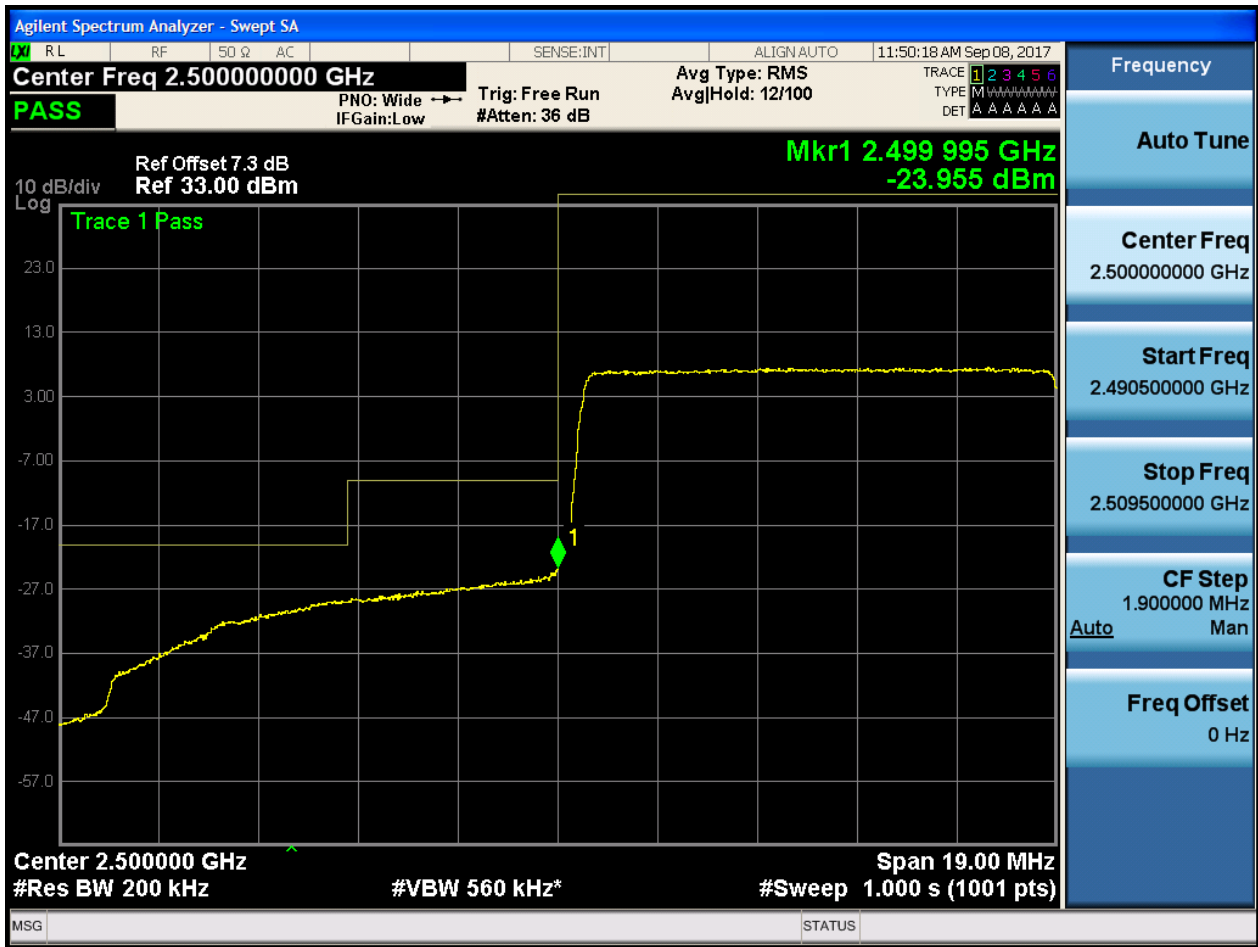


5.1.1.1.2.1.3 Test RB = RB25#13



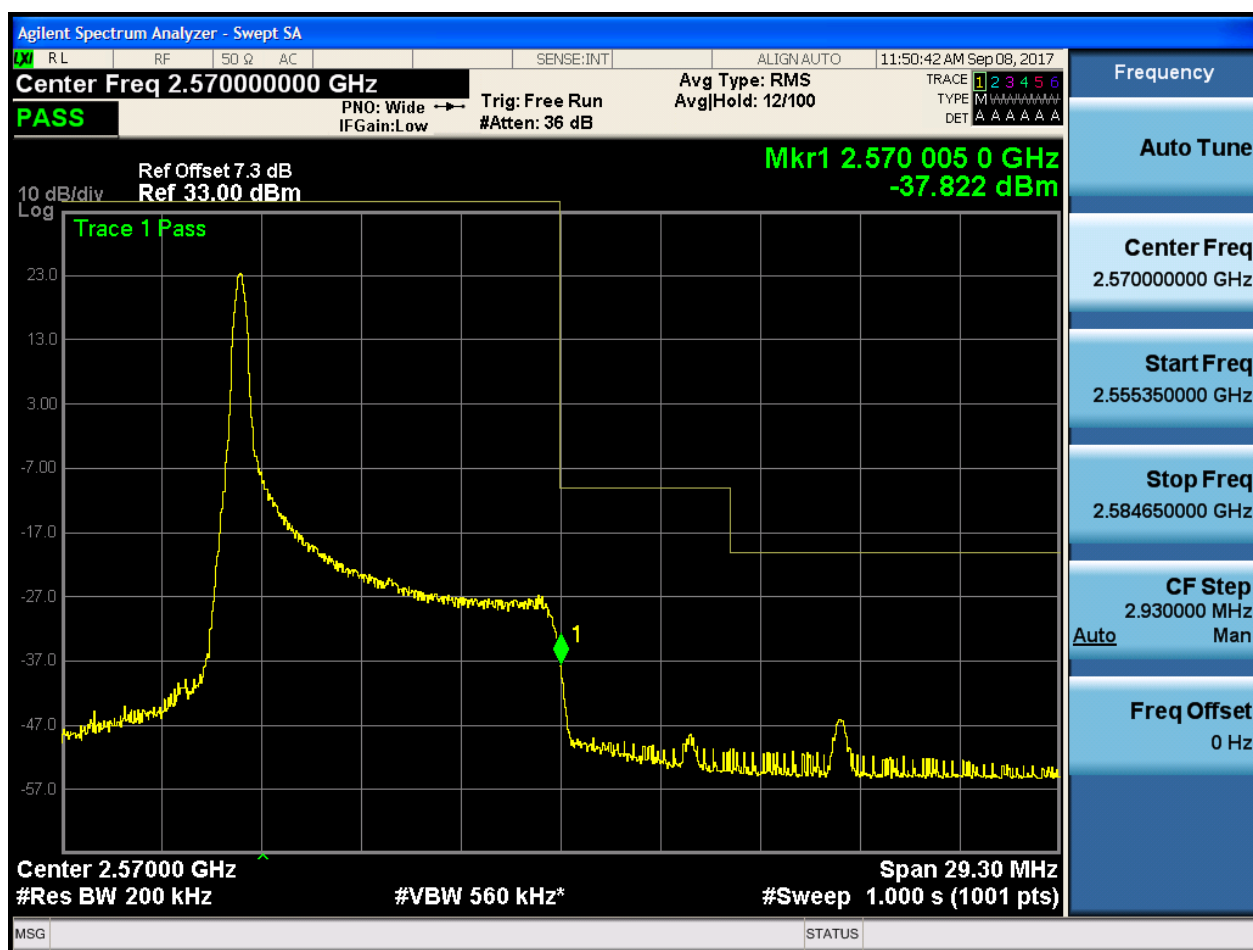


5.1.1.1.2.1.4 Test RB = RB50#0

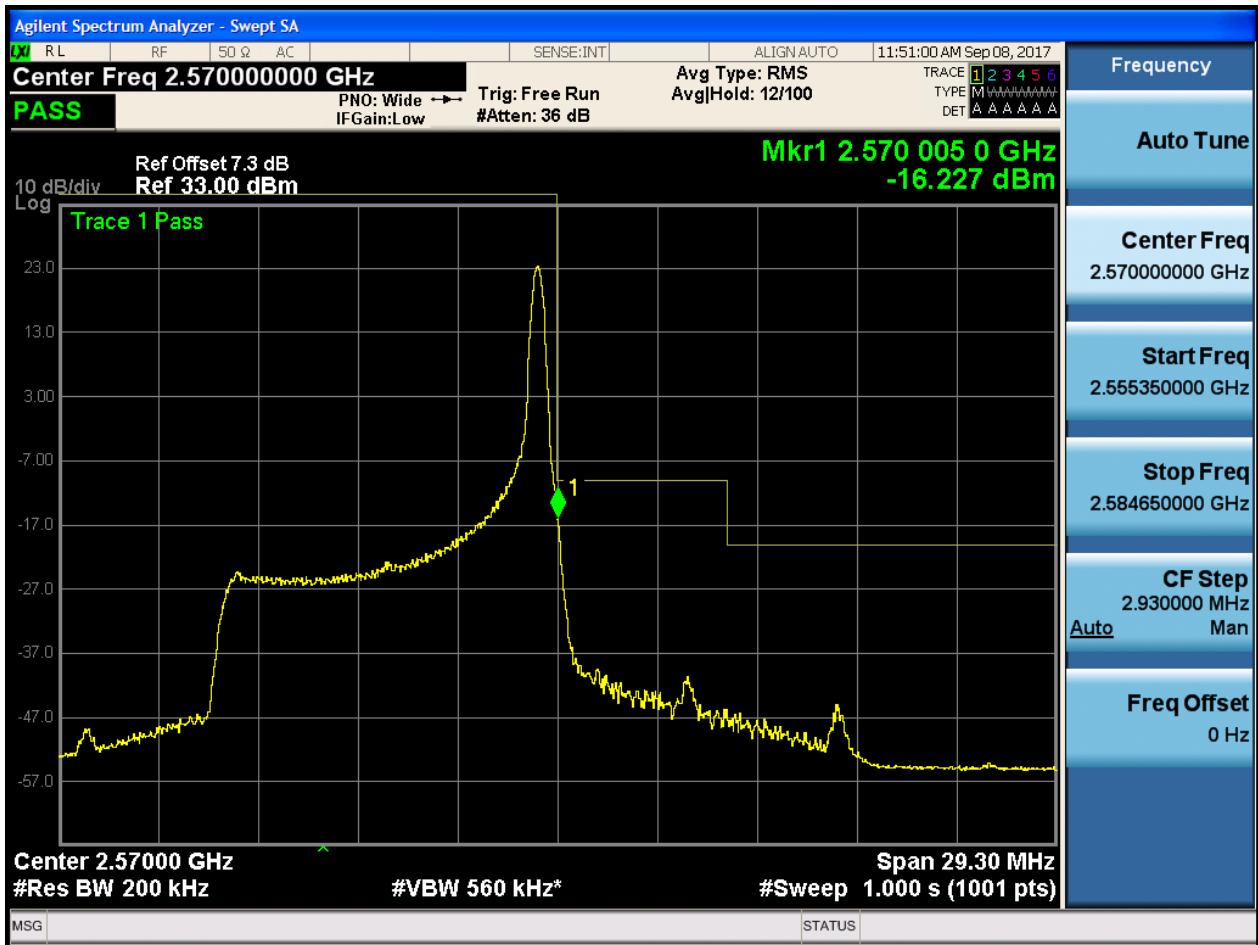


5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0

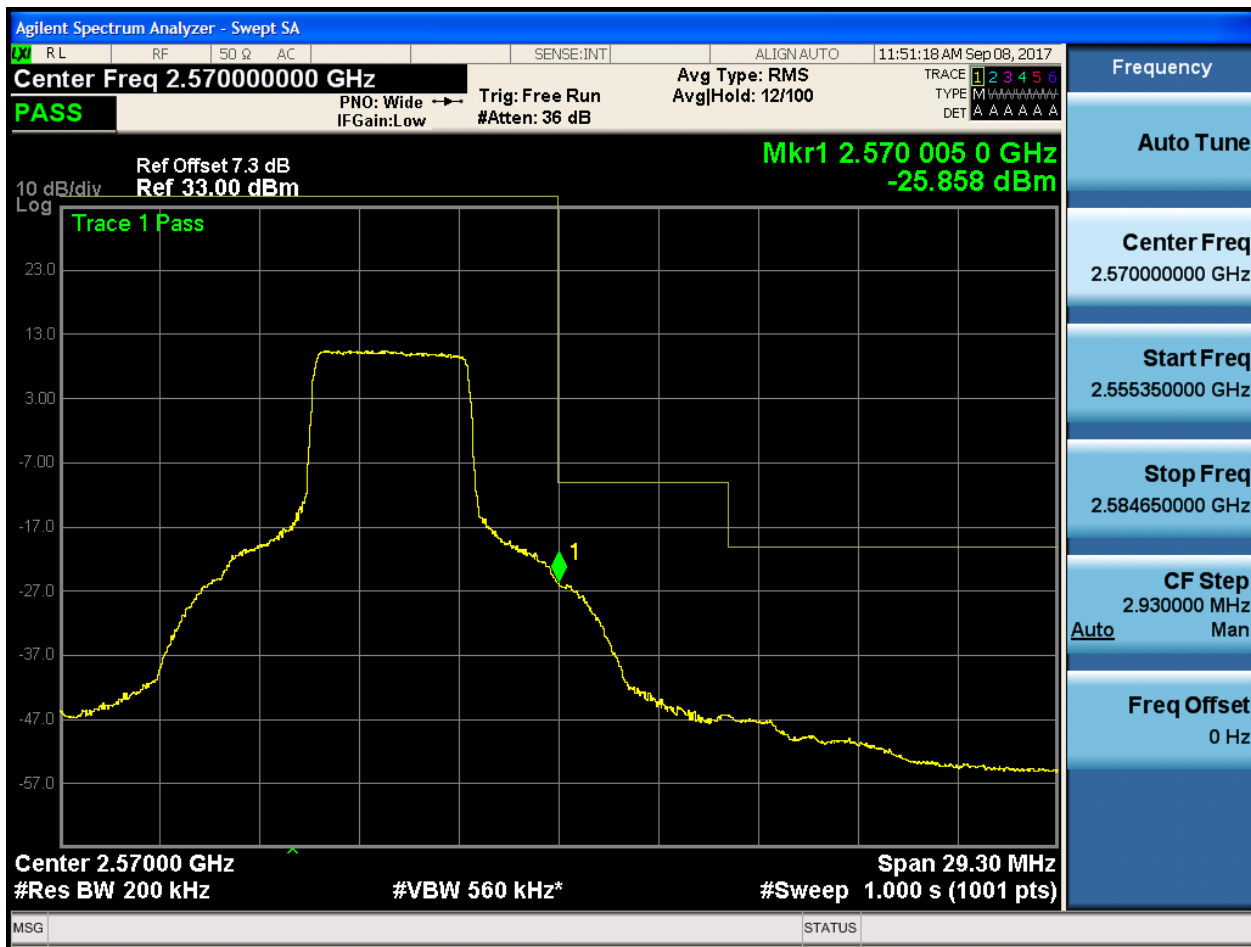


5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0

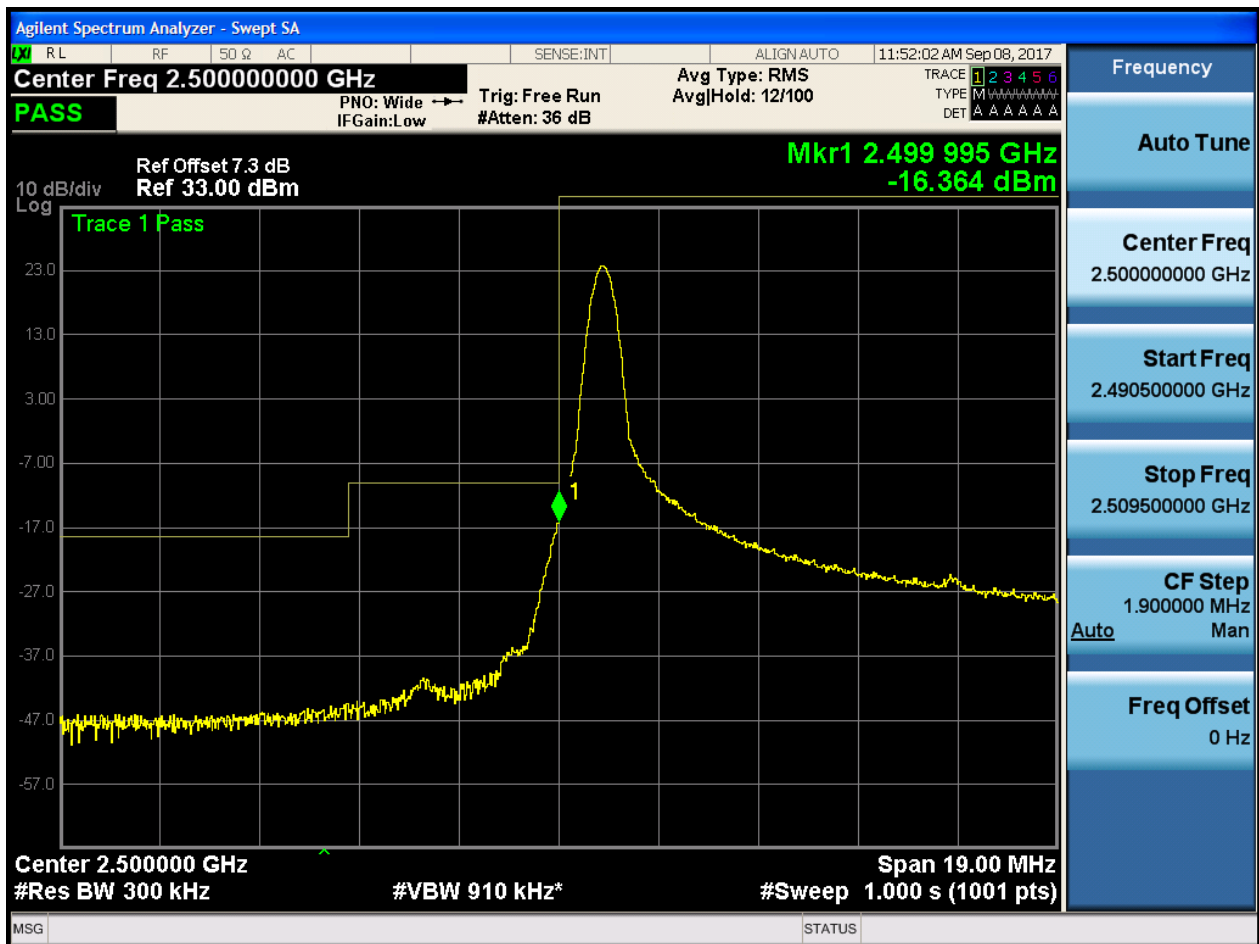




5.1.1.1.3 Test Bandwidth = 15

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:52:20 AM Sep 08, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trg: Free Run Avg|Hold: 12/100
 IFGain:Low #Atten: 36 dB TYPE M A A A A A A A DET A A A A A A A A

Ref Offset 7.3 dB
 Ref 33.00 dBm

Mkr1 2.499 995 GHz
-40.600 dBm

10 dB/div Log

Trace 1 Pass

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

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.499 995 GHz
-27.313 dBm

Center 2.500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

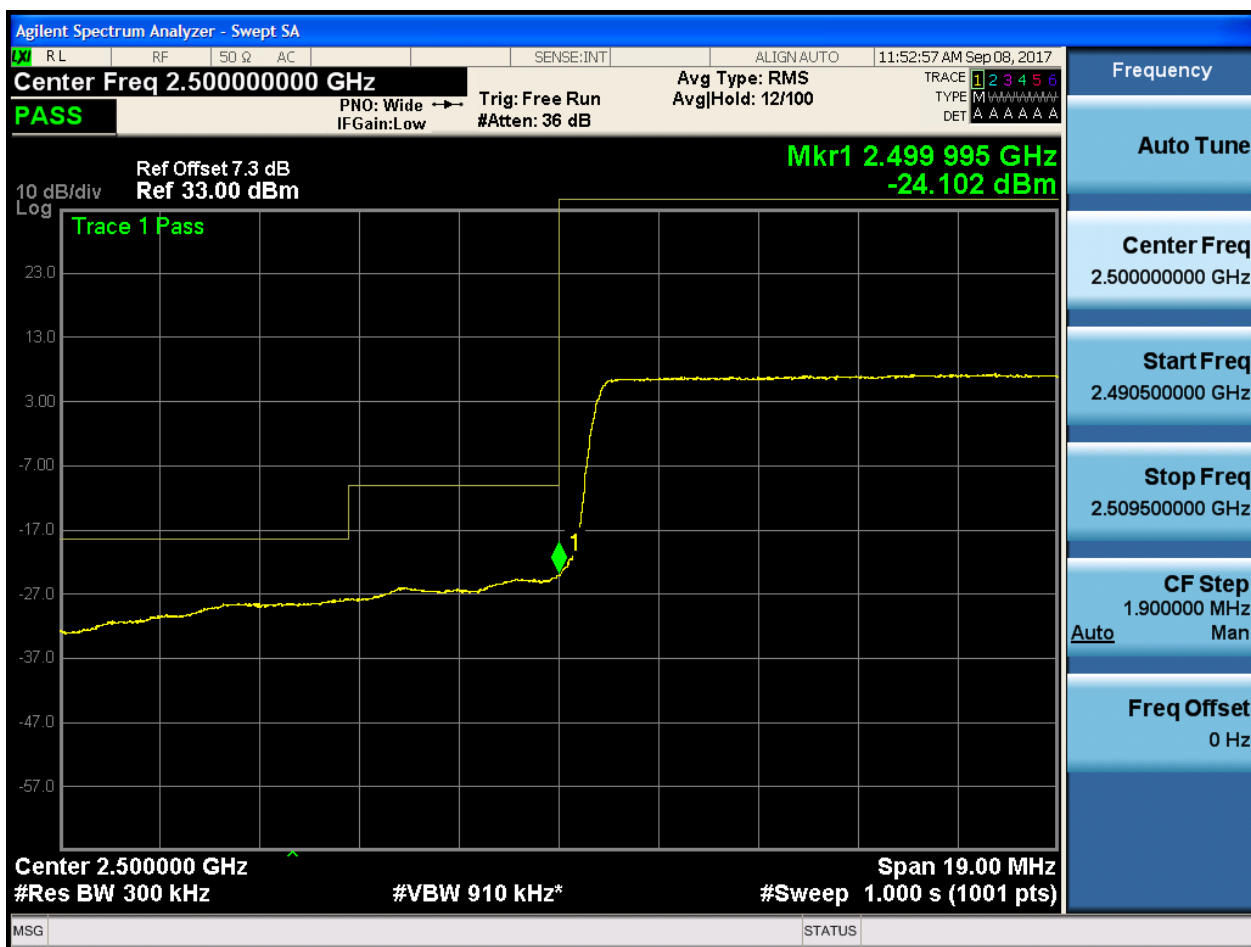
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

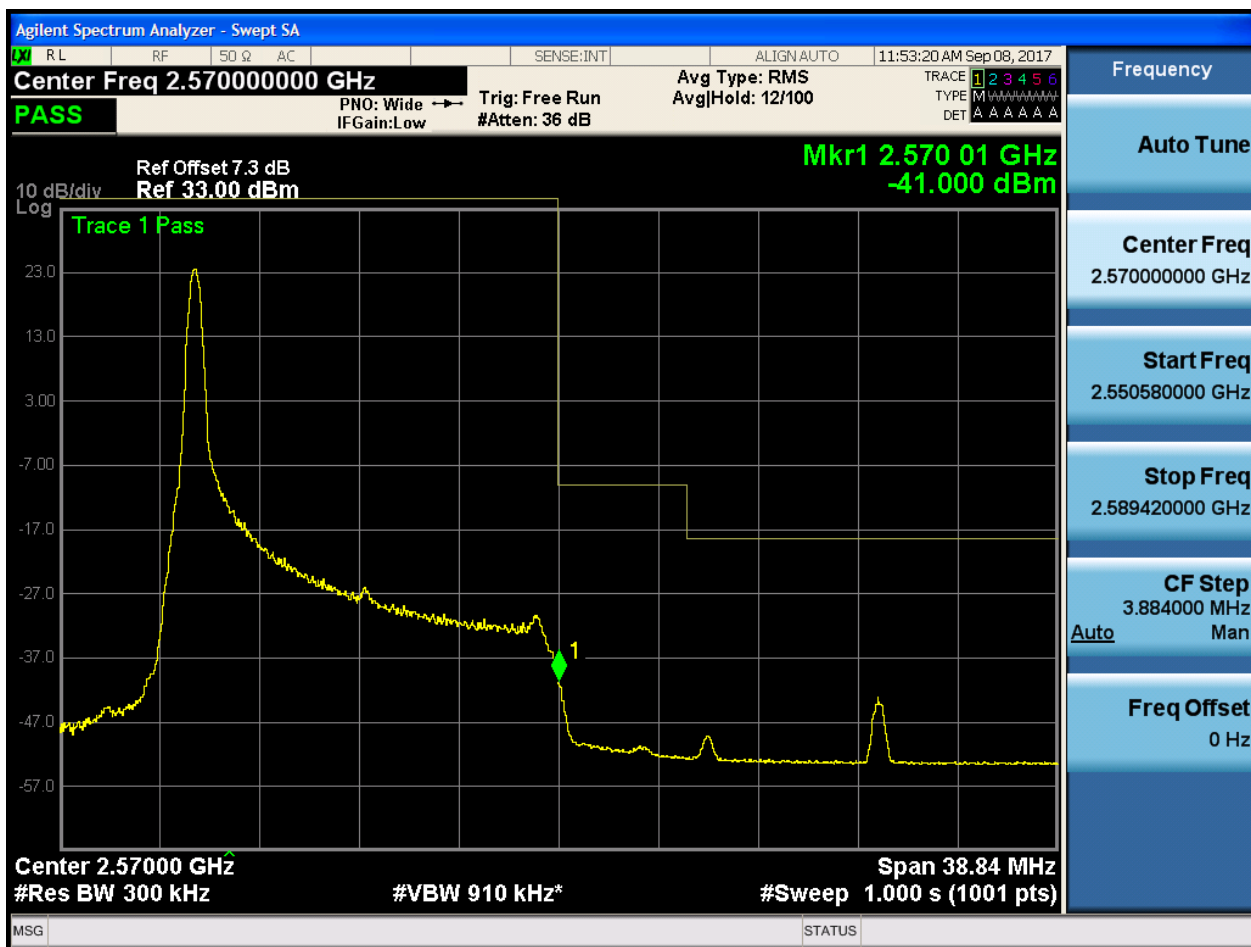


5.1.1.1.3.1.4 Test RB = RB75#0



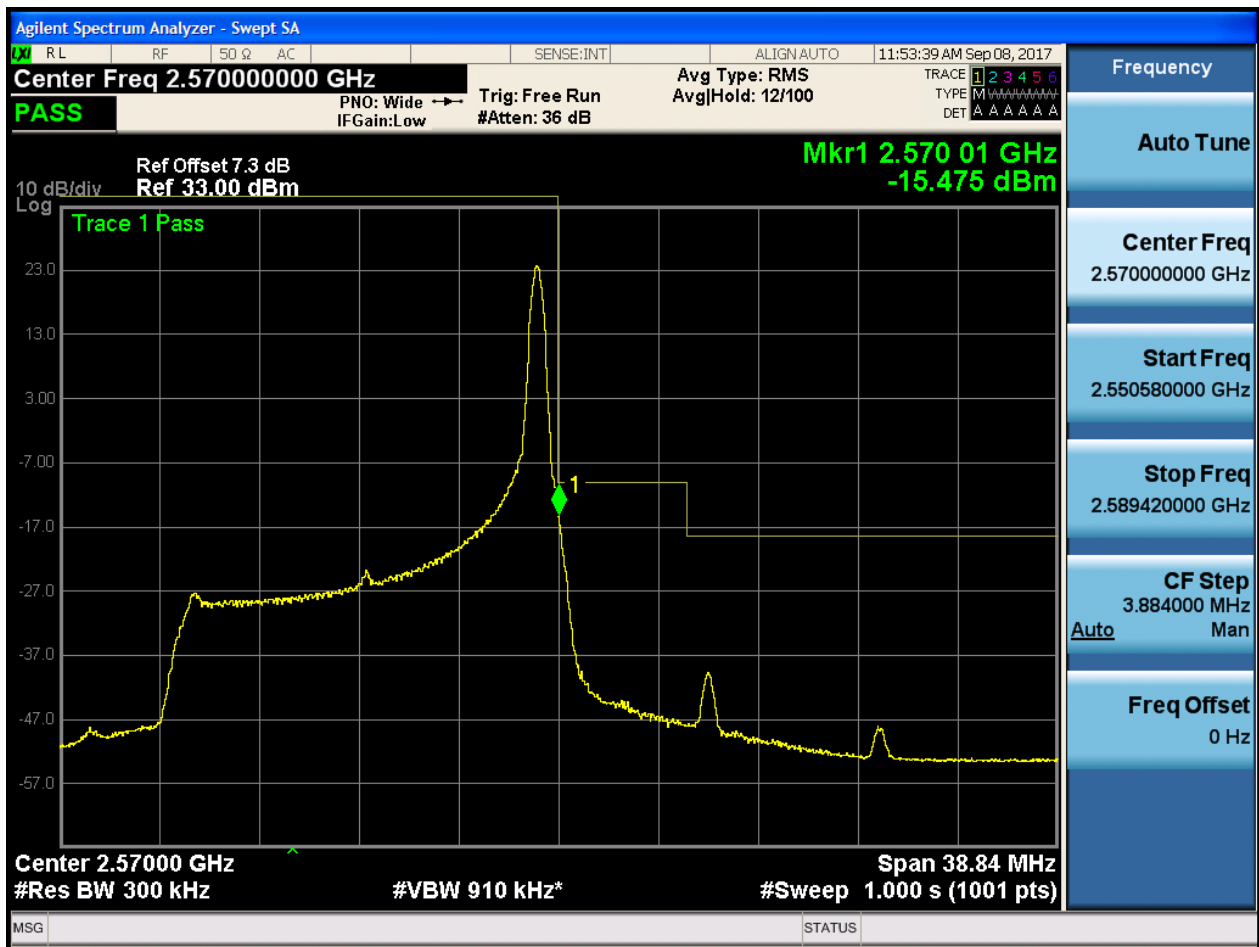
5.1.1.1.3.2 Test Channel = HCH

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

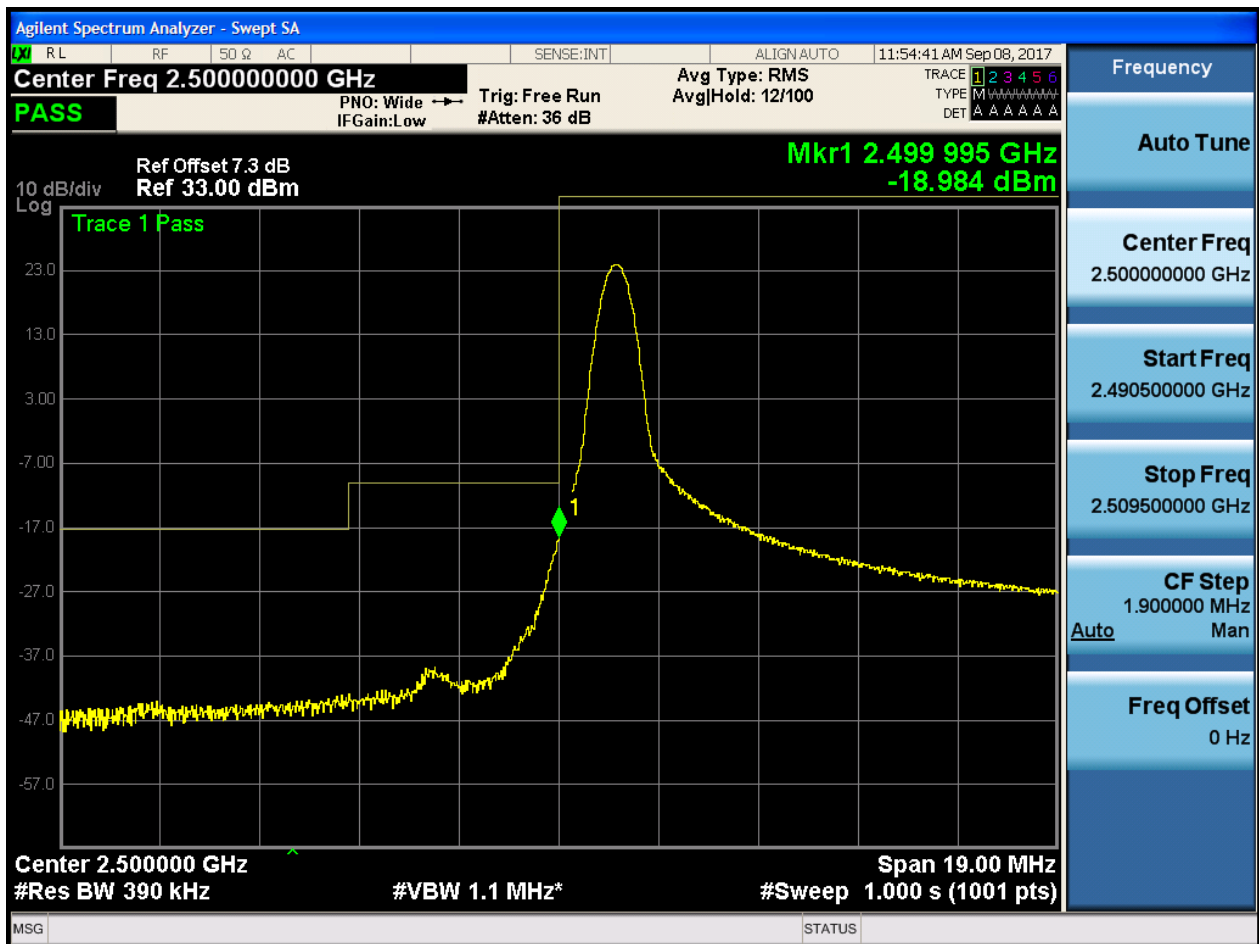




5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:54:59 AM Sep08, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 390 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide Trace 1 2 3 4 5 6
IFGain:Low #Atten: 36 dB TYPE M W W W W W W W W
DET A A A A A A A

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-39.176 dBm

10 dB/div
Log

Trace 1 Pass

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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:55:17 AM Sep08, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
 PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
 #Atten: 36 dB

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

Ref Offset 7.3 dB
 Ref 33.00 dBm

Mkr1 2.499 995 GHz
 -28.812 dBm

10 dB/div
 Log

Trace 1 Pass

Center 2.500000 GHz
 #Res BW 390 kHz
 #VBW 1.1 MHz*
 Span 19.00 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
 Auto Tune
 Center Freq
 2.500000000 GHz
 Start Freq
 2.490500000 GHz
 Stop Freq
 2.509500000 GHz
 CF Step
 1.900000 MHz
 Auto Man
 Freq Offset
 0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-25.089 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 390 kHz
#VBW 1.1 MHz*
Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 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

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 12/100

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.545890000 GHz

Stop Freq
2.594110000 GHz

CF Step
4.822000 MHz
Auto Man

Freq Offset
0 Hz

Mkr1 2.570 01 GHz
-18.188 dBm

1

Center 2.57000 GHz
#Res BW 390 kHz

#VBW 1.1 MHz*

Span 48.22 MHz
#Sweep 1.000 s (1001 pts)

[illegible]



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:56:54 AM Sep08, 2017

Center Freq 2.57000000 GHz Avg Type: RMS Trg: Free Run
PNO: Fast IFGain:Low #Atten: 36 dB

PASS

Ref Offset 7.3 dB Ref 33.00 dBm

Mkr1 2.570 01 GHz -23.761 dBm

10 dB/div Log

Trace 1 Pass

The spectrum analyzer trace shows a signal at 2.570 GHz with a sharp drop in power at 2.594 GHz. The signal is labeled 'Trace 1 Pass' and the drop is marked with a green arrow and '1'. The signal level is approximately -23.76 dBm at the center frequency.

Center Freq 2.57000000 GHz
Start Freq 2.545890000 GHz
Stop Freq 2.594110000 GHz
CF Step 4.822000 MHz
Auto Man
Freq Offset 0 Hz

Center 2.57000 GHz Span 48.22 MHz
#Res BW 390 kHz #VBW 1.1 MHz* #Sweep 1.000 s (1001 pts)

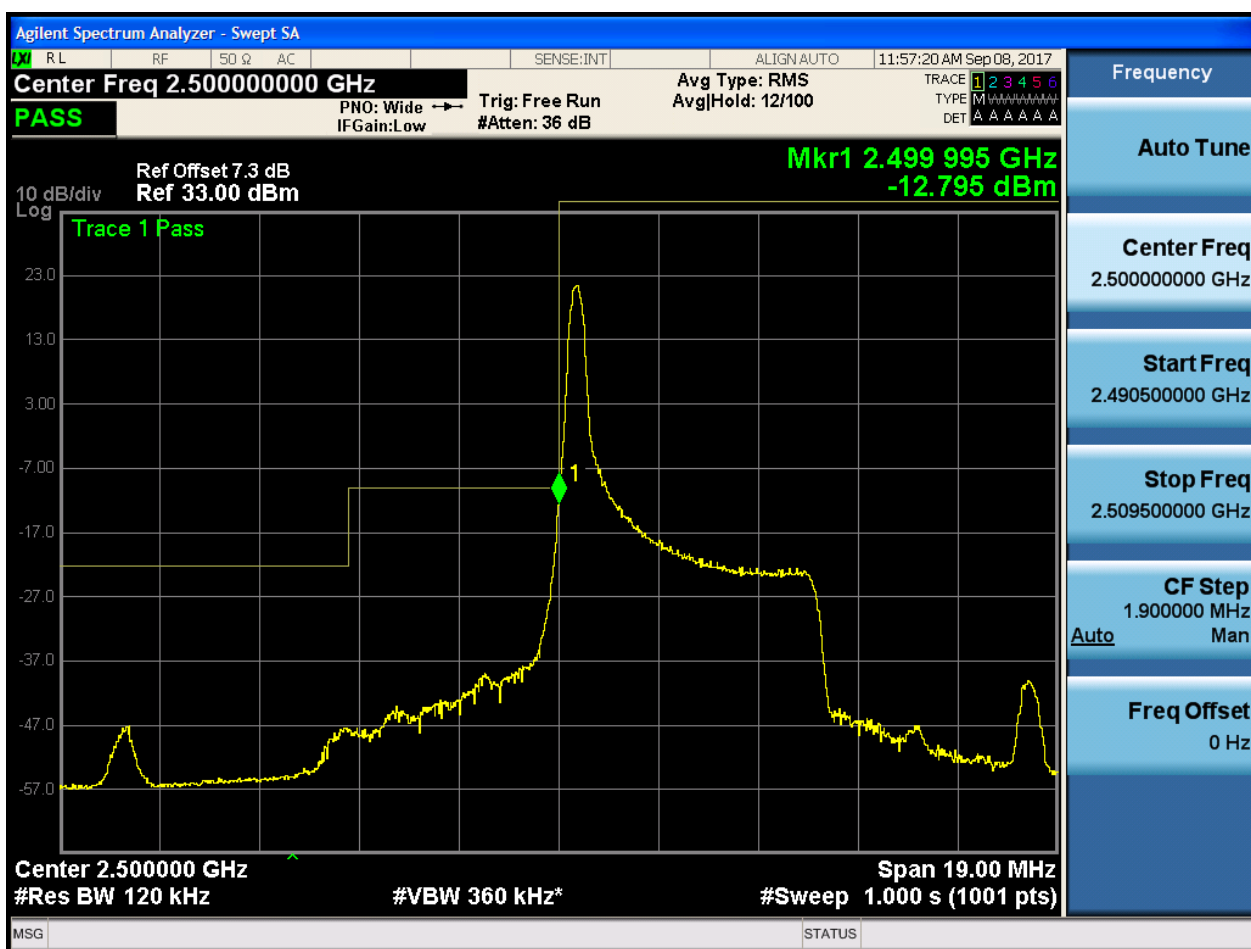
MSG STATUS

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:57:38 AM Sep 08, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-33.231 dBm

10 dB/div
Log

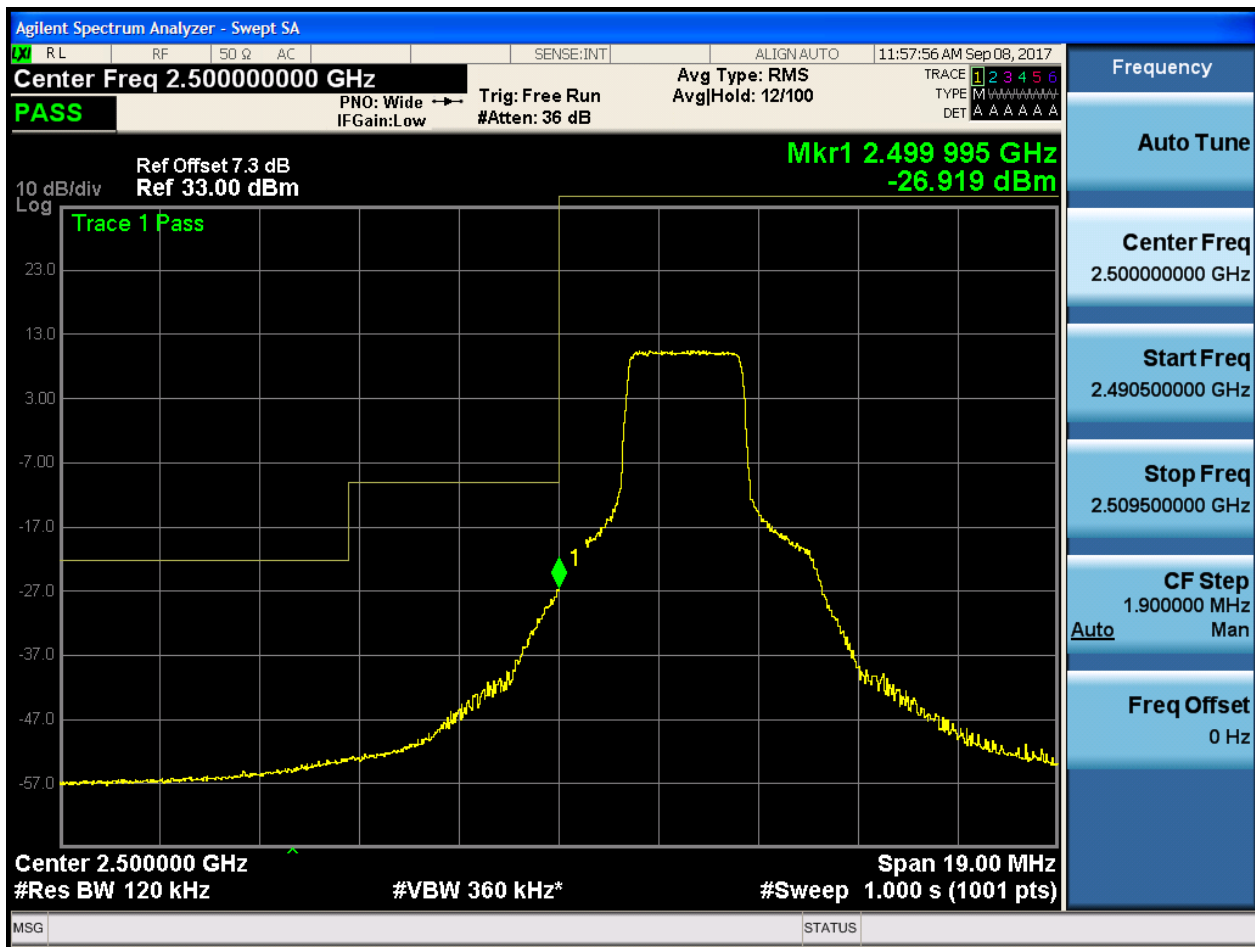
Trace 1 Pass

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

MSG STATUS



5.1.1.2.1.1.3 Test RB = RB12#6





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
-22.737 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

Freq Offset
0 Hz

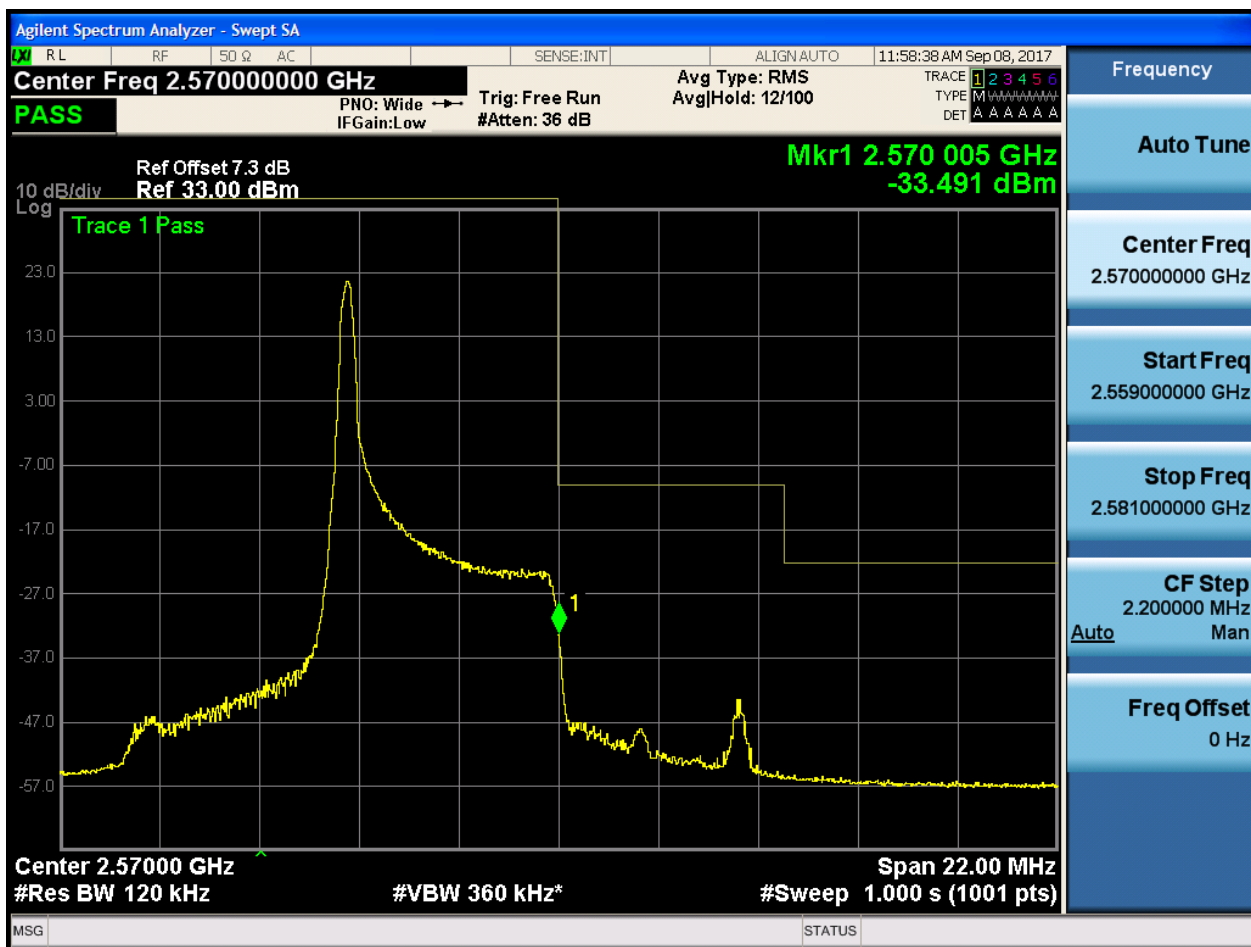
MSG

STATUS



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:58:56 AM Sep08, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-12.650 dBm

10 dB/div
Log

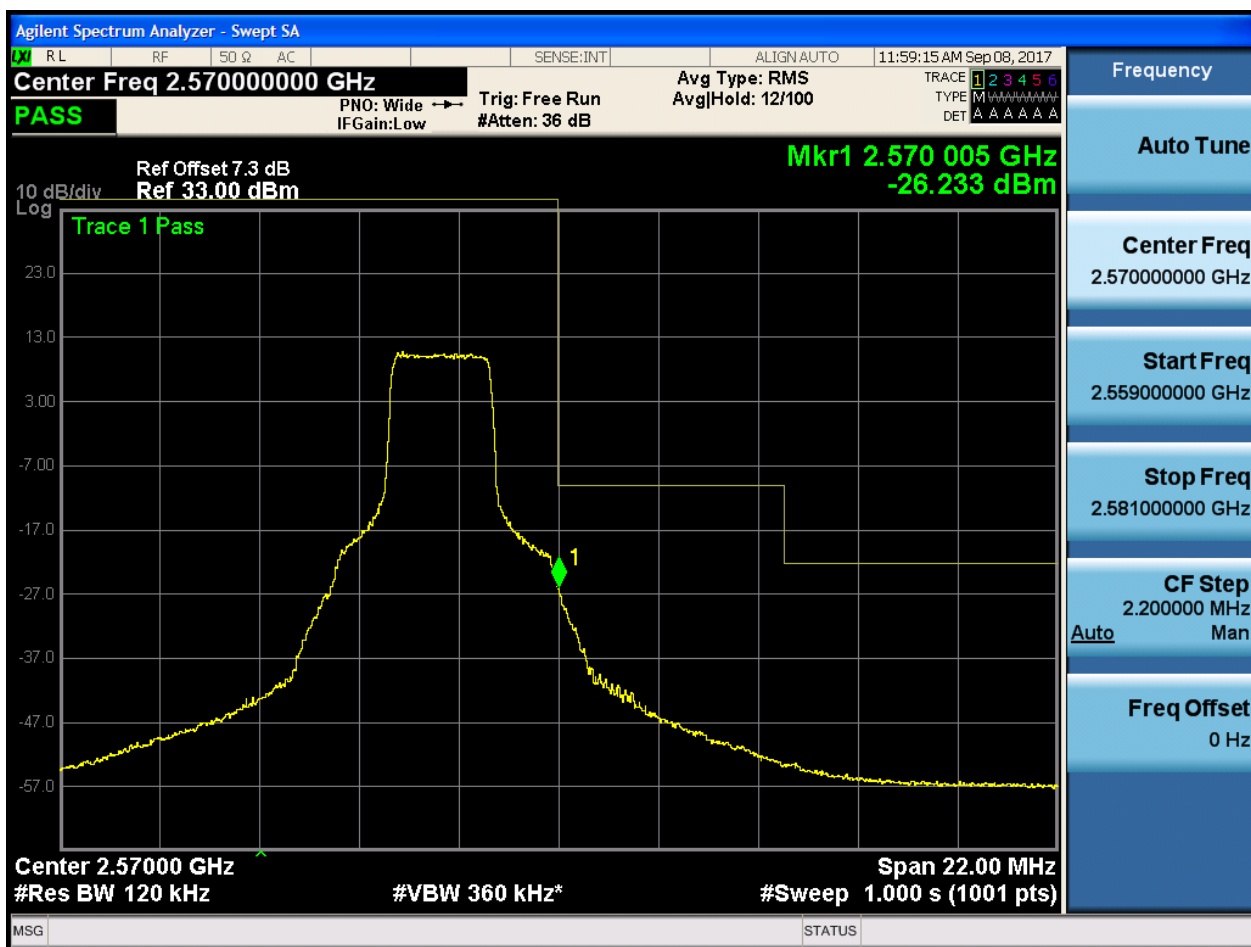
Trace 1 Pass

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

MSG STATUS



5.1.1.2.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:59:33 AM Sep08, 2017

Center Freq 2.57000000 GHz Avg Type: RMS Trg: Free Run
PNO: Wide IFGain:Low #Atten: 36 dB

PASS

Ref Offset 7.3 dB Mkr1 2.570 005 GHz
Ref 33.00 dBm -22.184 dBm

10 dB/div Log

Trace 1 Pass

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

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

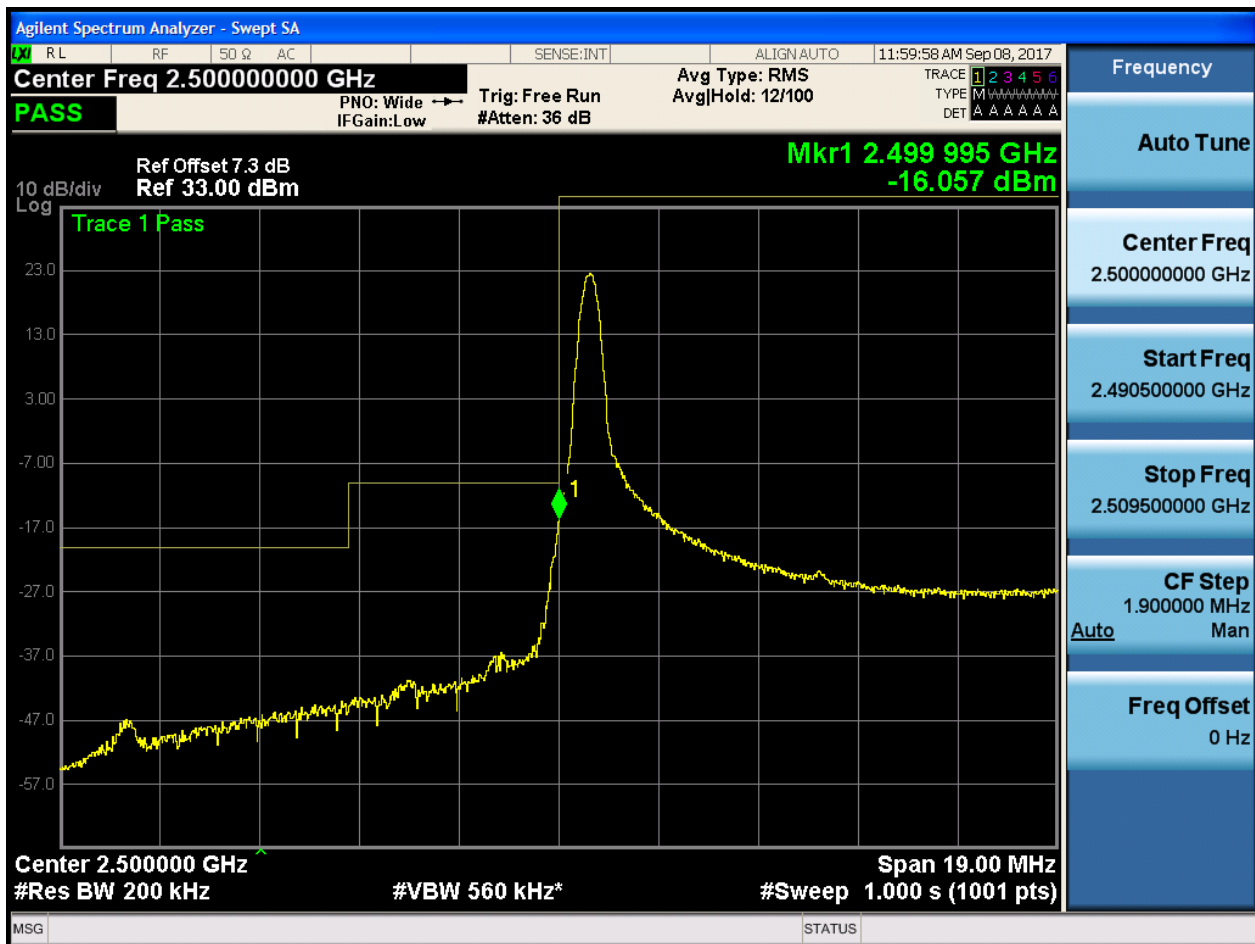
Freq Offset
0 Hz



5.1.1.2.2 Test Bandwidth = 10

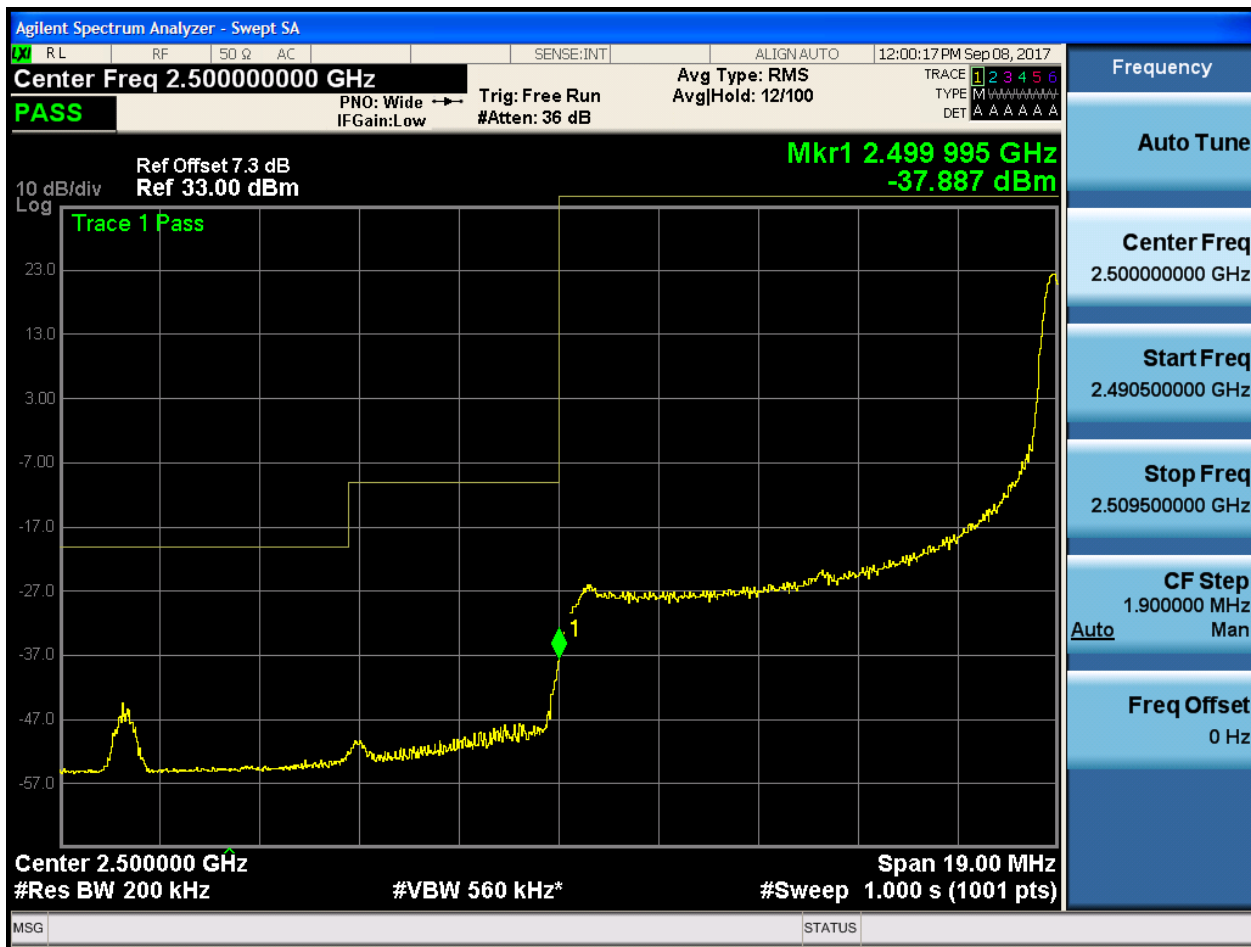
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



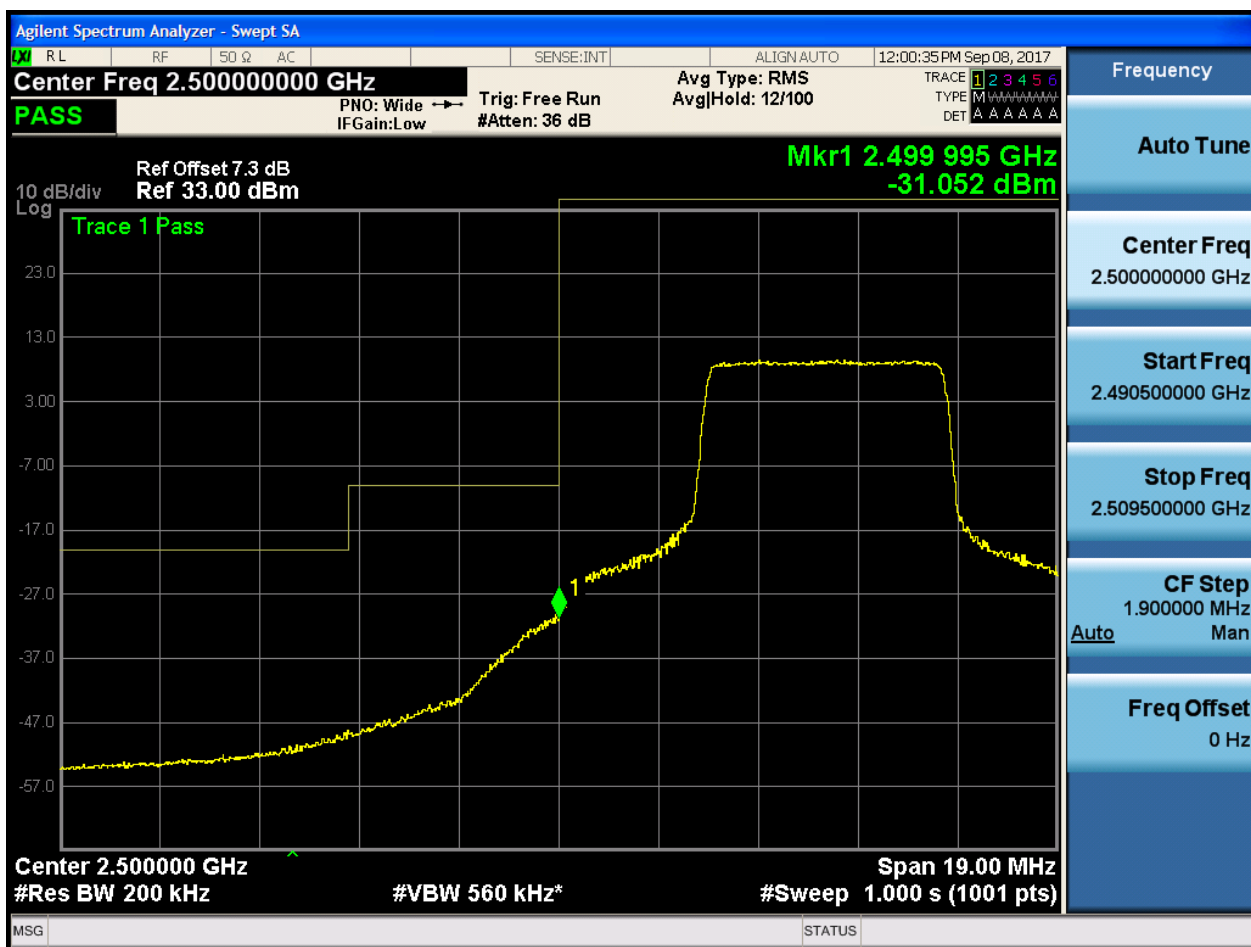


5.1.1.2.2.1.2 Test RB = RB1#49



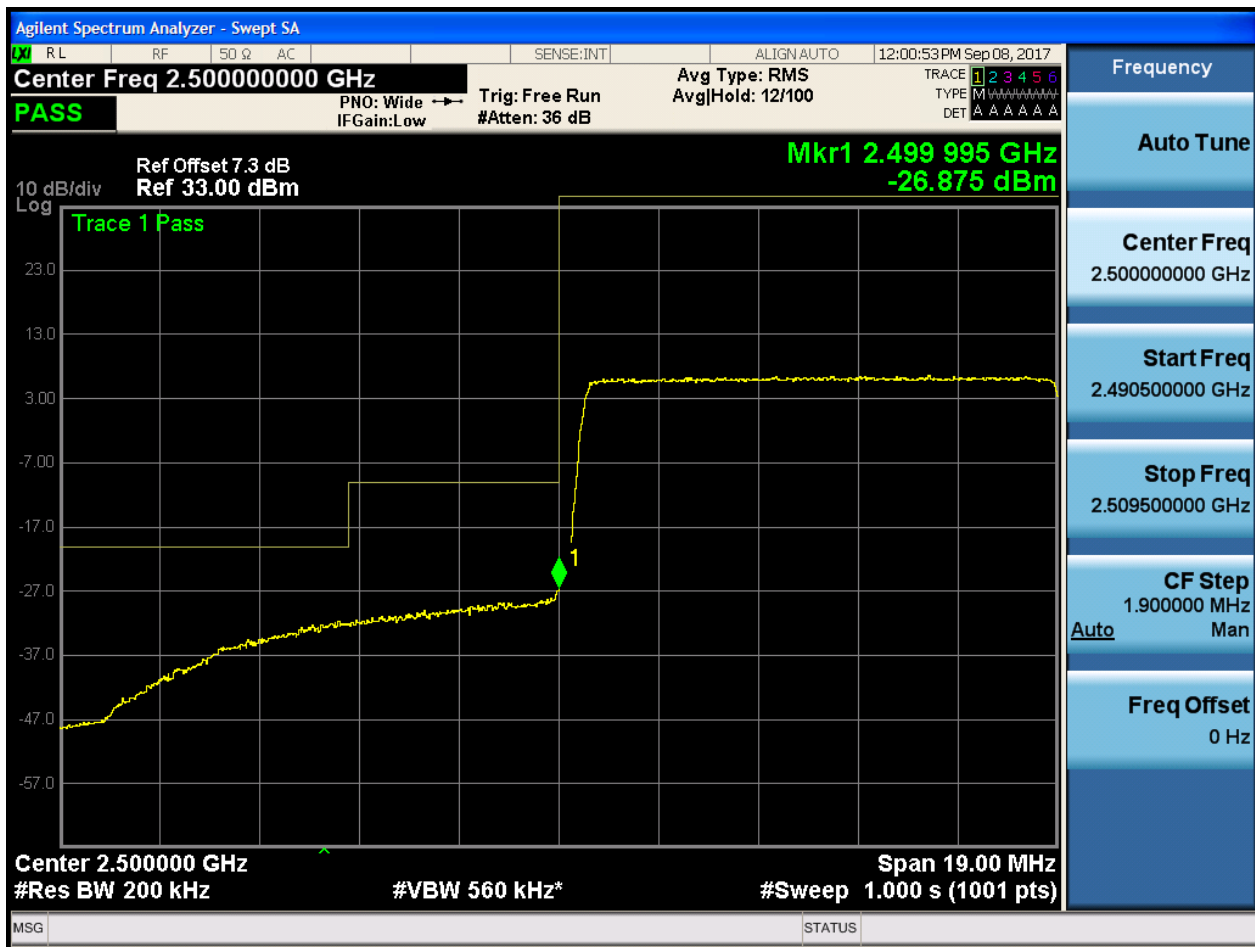


5.1.1.2.2.1.3 Test RB = RB25#13





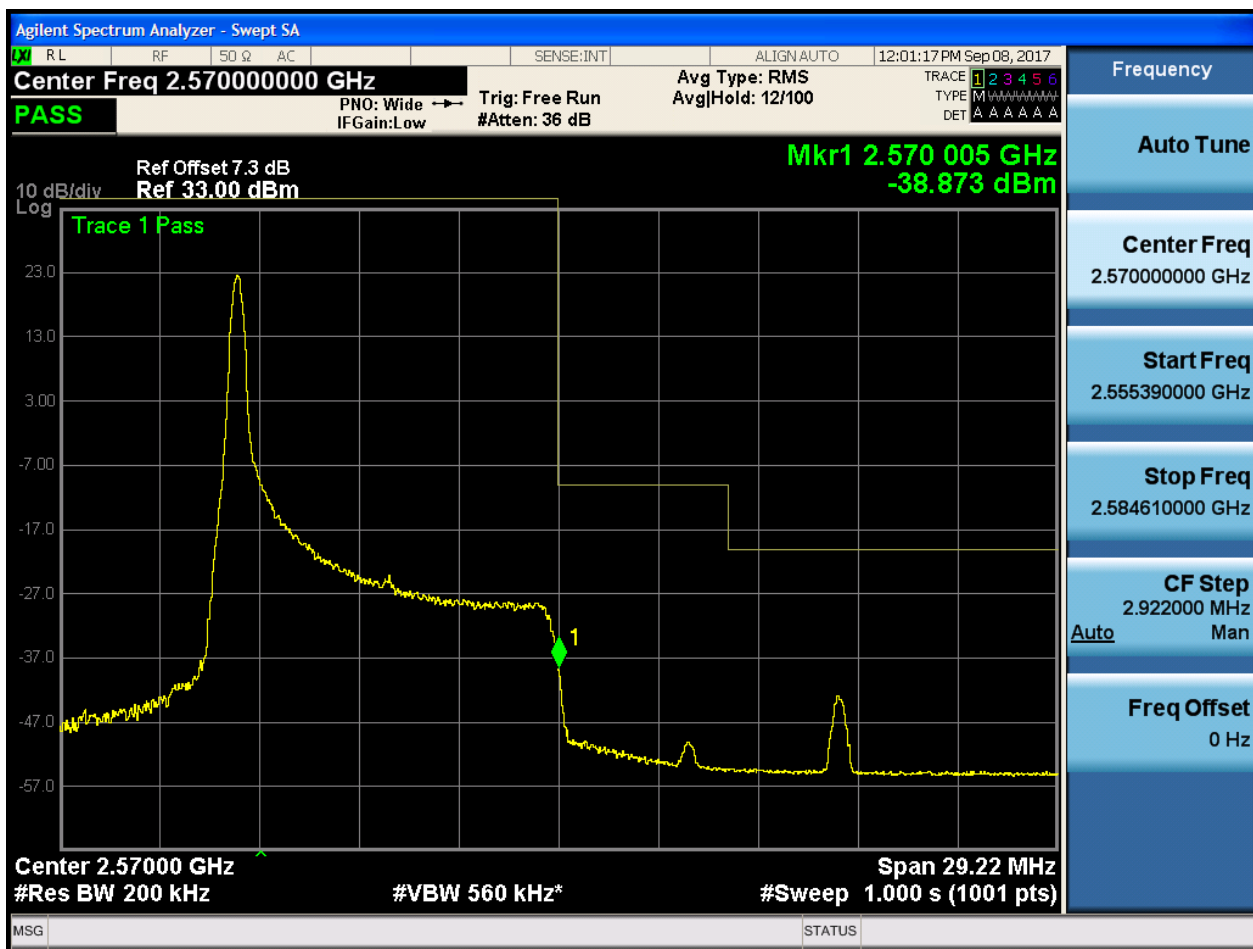
5.1.1.2.2.1.4 Test RB = RB50#0





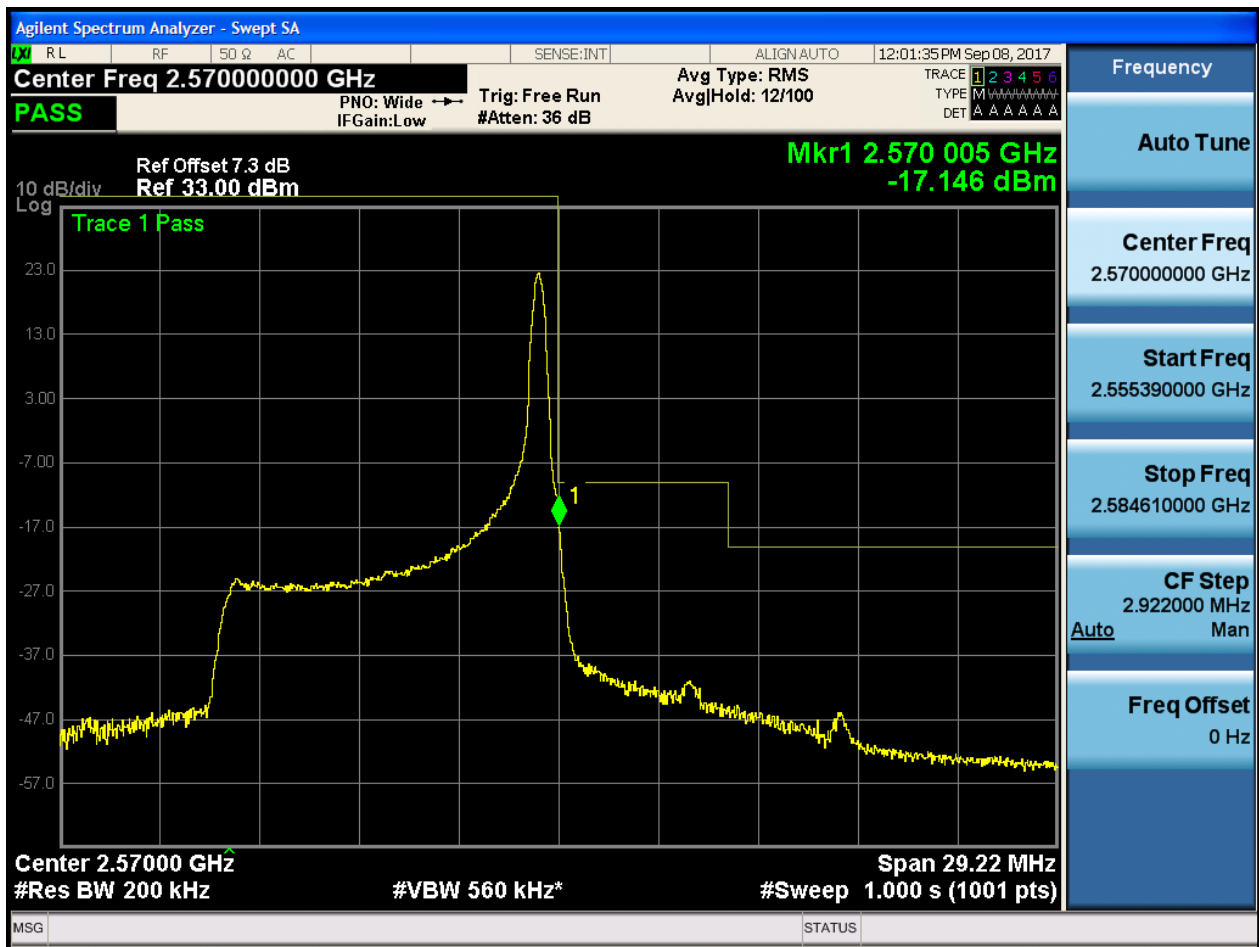
5.1.1.2.2.2 Test Channel = HCH

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

