



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	20.73	20.23	33	PASS
				RB1#13	21.3	20.8	33	PASS
				RB1#24	21.73	21.23	33	PASS
				RB12#0	20.74	20.24	33	PASS
				RB12#6	20.91	20.41	33	PASS
				RB12#13	20.69	20.19	33	PASS
				RB25#0	20.68	20.18	33	PASS
			MCH	RB1#0	20.97	20.47	33	PASS
				RB1#13	21.51	21.01	33	PASS
				RB1#24	21.61	21.11	33	PASS
				RB12#0	20.72	20.22	33	PASS
				RB12#6	20.84	20.34	33	PASS
				RB12#13	20.68	20.18	33	PASS
				RB25#0	20.74	20.24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.07	20.57	33	PASS
				RB1#13	21.47	20.97	33	PASS
				RB1#24	21.62	21.12	33	PASS
				RB12#0	20.79	20.29	33	PASS
				RB12#6	20.94	20.44	33	PASS
				RB12#13	20.7	20.2	33	PASS
				RB25#0	20.74	20.24	33	PASS
		10	LCH	RB1#0	20.91	20.41	33	PASS
				RB1#25	21.51	21.01	33	PASS
				RB1#49	20.55	20.05	33	PASS
				RB25#0	20.52	20.02	33	PASS
				RB25#13	20.77	20.27	33	PASS
				RB25#25	20.62	20.12	33	PASS
				RB50#0	20.49	19.99	33	PASS
			MCH	RB1#0	21.04	20.54	33	PASS
				RB1#25	21.41	20.91	33	PASS
				RB1#49	20.34	19.84	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.6	20.1	33	PASS
				RB25#13	20.71	20.21	33	PASS
				RB25#25	20.41	19.91	33	PASS
				RB50#0	20.55	20.05	33	PASS
			HCH	RB1#0	21.2	20.7	33	PASS
				RB1#25	21.63	21.13	33	PASS
				RB1#49	20.34	19.84	33	PASS
				RB25#0	20.85	20.35	33	PASS
				RB25#13	20.83	20.33	33	PASS
				RB25#25	20.54	20.04	33	PASS
				RB50#0	20.63	20.13	33	PASS
		15	LCH	RB1#0	21.42	20.92	33	PASS
				RB1#38	21.54	21.04	33	PASS
				RB1#74	21.45	20.95	33	PASS
				RB36#0	20.74	20.24	33	PASS
				RB36#18	20.91	20.41	33	PASS
				RB36#39	21.05	20.55	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.87	20.37	33	PASS
			MCH	RB1#0	21.65	21.15	33	PASS
				RB1#38	21.36	20.86	33	PASS
				RB1#74	20.9	20.4	33	PASS
				RB36#0	20.89	20.39	33	PASS
				RB36#18	20.72	20.22	33	PASS
				RB36#39	20.66	20.16	33	PASS
				RB75#0	20.77	20.27	33	PASS
			HCH	RB1#0	21.75	21.25	33	PASS
				RB1#38	21.66	21.16	33	PASS
				RB1#74	20.84	20.34	33	PASS
				RB36#0	21.15	20.65	33	PASS
				RB36#18	21.13	20.63	33	PASS
				RB36#39	20.77	20.27	33	PASS
				RB75#0	20.99	20.49	33	PASS
		20	LCH	RB1#0	21.67	21.17	33	PASS
				RB1#50	21.77	21.27	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.91	21.41	33	PASS
				RB50#0	21.01	20.51	33	PASS
				RB50#25	21.14	20.64	33	PASS
				RB50#50	21.34	20.84	33	PASS
				RB100#0	21.15	20.65	33	PASS
			MCH	RB1#0	22.01	21.51	33	PASS
				RB1#50	21.37	20.87	33	PASS
				RB1#99	21.14	20.64	33	PASS
				RB50#0	21.41	20.91	33	PASS
				RB50#25	21.04	20.54	33	PASS
				RB50#50	21.05	20.55	33	PASS
				RB100#0	21.17	20.67	33	PASS
			HCH	RB1#0	22.11	21.61	33	PASS
				RB1#50	21.93	21.43	33	PASS
				RB1#99	21.24	20.74	33	PASS
				RB50#0	21.52	21.02	33	PASS
				RB50#25	21.37	20.87	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.21	20.71	33	PASS
				RB100#0	21.3	20.8	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.43	19.93	33	PASS
				RB1#13	21.03	20.53	33	PASS
				RB1#24	21.24	20.74	33	PASS
				RB12#0	19.57	19.07	33	PASS
				RB12#6	19.76	19.26	33	PASS
				RB12#13	19.57	19.07	33	PASS
				RB25#0	19.57	19.07	33	PASS
			MCH	RB1#0	20.35	19.85	33	PASS
				RB1#13	20.89	20.39	33	PASS
				RB1#24	21	20.5	33	PASS
				RB12#0	19.59	19.09	33	PASS
				RB12#6	19.72	19.22	33	PASS
				RB12#13	19.57	19.07	33	PASS
				RB25#0	19.62	19.12	33	PASS
			HCH	RB1#0	20.63	20.13	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.12	20.62	33	PASS
				RB1#24	21.22	20.72	33	PASS
				RB12#0	19.69	19.19	33	PASS
				RB12#6	19.84	19.34	33	PASS
				RB12#13	19.61	19.11	33	PASS
				RB25#0	19.63	19.13	33	PASS
		10	LCH	RB1#0	20.64	20.14	33	PASS
				RB1#25	21.25	20.75	33	PASS
				RB1#49	20.34	19.84	33	PASS
				RB25#0	19.46	18.96	33	PASS
				RB25#13	19.73	19.23	33	PASS
				RB25#25	19.6	19.1	33	PASS
				RB50#0	19.47	18.97	33	PASS
			MCH	RB1#0	20.8	20.3	33	PASS
				RB1#25	21.14	20.64	33	PASS
				RB1#49	20.13	19.63	33	PASS
				RB25#0	19.56	19.06	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	19.68	19.18	33	PASS
				RB25#25	19.4	18.9	33	PASS
				RB50#0	19.53	19.03	33	PASS
			HCH	RB1#0	20.97	20.47	33	PASS
				RB1#25	21.3	20.8	33	PASS
				RB1#49	20.07	19.57	33	PASS
				RB25#0	19.81	19.31	33	PASS
				RB25#13	19.77	19.27	33	PASS
				RB25#25	19.52	19.02	33	PASS
				RB50#0	19.59	19.09	33	PASS
		15	LCH	RB1#0	21.17	20.67	33	PASS
				RB1#38	21.29	20.79	33	PASS
				RB1#74	21.17	20.67	33	PASS
				RB36#0	19.72	19.22	33	PASS
				RB36#18	19.9	19.4	33	PASS
				RB36#39	20.05	19.55	33	PASS
				RB75#0	19.84	19.34	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.31	20.81	33	PASS
				RB1#38	21.05	20.55	33	PASS
				RB1#74	20.62	20.12	33	PASS
				RB36#0	19.86	19.36	33	PASS
				RB36#18	19.7	19.2	33	PASS
				RB36#39	19.66	19.16	33	PASS
				RB75#0	19.74	19.24	33	PASS
			HCH	RB1#0	21.34	20.84	33	PASS
				RB1#38	21.27	20.77	33	PASS
				RB1#74	20.49	19.99	33	PASS
				RB36#0	20.36	19.86	33	PASS
				RB36#18	20.33	19.83	33	PASS
				RB36#39	19.77	19.27	33	PASS
				RB75#0	19.86	19.36	33	PASS
		20	LCH	RB1#0	21.61	21.11	33	PASS
				RB1#50	21.74	21.24	33	PASS
				RB1#99	21.81	21.31	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.01	19.51	33	PASS
				RB50#25	20.12	19.62	33	PASS
				RB50#50	20.33	19.83	33	PASS
				RB100#0	20.17	19.67	33	PASS
			MCH	RB1#0	21.88	21.38	33	PASS
				RB1#50	21.25	20.75	33	PASS
				RB1#99	21.08	20.58	33	PASS
				RB50#0	20.38	19.88	33	PASS
				RB50#25	20.02	19.52	33	PASS
				RB50#50	19.83	19.33	33	PASS
				RB100#0	19.94	19.44	33	PASS
			HCH	RB1#0	21.78	21.28	33	PASS
				RB1#50	21.75	21.25	33	PASS
				RB1#99	21.07	20.57	33	PASS
				RB50#0	20.49	19.99	33	PASS
				RB50#25	20.33	19.83	33	PASS
				RB50#50	20.19	19.69	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.28	19.78	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: RBW > emission bandwidth, VBW > 3 x RBW.

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	4.6	13	PASS
				RB1#13	4.35	13	PASS
				RB1#24	4.22	13	PASS
				RB12#0	5.53	13	PASS
				RB12#6	5.39	13	PASS
				RB12#13	5.69	13	PASS
				RB25#0	5.7	13	PASS
			MCH	RB1#0	4.62	13	PASS
				RB1#13	4.29	13	PASS
				RB1#24	4.19	13	PASS
				RB12#0	5.41	13	PASS
				RB12#6	5.21	13	PASS
				RB12#13	5.48	13	PASS
				RB25#0	5.57	13	PASS
			HCH	RB1#0	4.2	13	PASS
				RB1#13	3.78	13	PASS
				RB1#24	3.63	13	PASS
				RB12#0	5.05	13	PASS
				RB12#6	4.67	13	PASS
				RB12#13	4.95	13	PASS
				RB25#0	5.33	13	PASS
		10	LCH	RB1#0	4.33	13	PASS
				RB1#25	4.26	13	PASS
				RB1#49	4.44	13	PASS
				RB25#0	5.95	13	PASS
				RB25#13	5.71	13	PASS
				RB25#25	5.94	13	PASS
				RB50#0	6.06	13	PASS
			MCH	RB1#0	4.43	13	PASS
				RB1#25	4.21	13	PASS
				RB1#49	4.52	13	PASS
				RB25#0	5.68	13	PASS
				RB25#13	5.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.76	13	PASS
				RB50#0	5.91	13	PASS
			HCH	RB1#0	4.13	13	PASS
				RB1#25	3.78	13	PASS
				RB1#49	3.96	13	PASS
				RB25#0	5.29	13	PASS
				RB25#13	4.94	13	PASS
				RB25#25	5.24	13	PASS
				RB50#0	5.76	13	PASS
		15	LCH	RB1#0	4.32	13	PASS
				RB1#38	4.43	13	PASS
				RB1#74	4.25	13	PASS
				RB36#0	5.88	13	PASS
				RB36#18	5.77	13	PASS
				RB36#39	5.72	13	PASS
				RB75#0	6.09	13	PASS
			MCH	RB1#0	4.17	13	PASS
				RB1#38	4.36	13	PASS
				RB1#74	4.27	13	PASS
				RB36#0	5.57	13	PASS
				RB36#18	5.45	13	PASS
				RB36#39	5.65	13	PASS
				RB75#0	6	13	PASS
			HCH	RB1#0	3.98	13	PASS
				RB1#38	3.92	13	PASS
				RB1#74	3.73	13	PASS
				RB36#0	5.27	13	PASS
				RB36#18	4.98	13	PASS
				RB36#39	5.16	13	PASS
				RB75#0	5.78	13	PASS
		20	LCH	RB1#0	4.32	13	PASS
				RB1#50	4.54	13	PASS
				RB1#99	4.06	13	PASS
				RB50#0	5.9	13	PASS
				RB50#25	5.67	13	PASS
				RB50#50	5.59	13	PASS
				RB100#0	6.09	13	PASS
			MCH	RB1#0	4.11	13	PASS
				RB1#50	4.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.15	13	PASS
				RB50#0	5.41	13	PASS
				RB50#25	5.45	13	PASS
				RB50#50	5.57	13	PASS
				RB100#0	5.94	13	PASS
			HCH	RB1#0	4.16	13	PASS
				RB1#50	4.03	13	PASS
				RB1#99	3.62	13	PASS
				RB50#0	5.27	13	PASS
				RB50#25	5.02	13	PASS
				RB50#50	5.05	13	PASS
				RB100#0	5.69	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.35	13	PASS
				RB1#13	5.21	13	PASS
				RB1#24	5.02	13	PASS
				RB12#0	6.19	13	PASS
				RB12#6	6.07	13	PASS
				RB12#13	6.35	13	PASS
				RB25#0	6.41	13	PASS
			MCH	RB1#0	5.48	13	PASS
				RB1#13	5.02	13	PASS
				RB1#24	4.92	13	PASS
				RB12#0	6.17	13	PASS
				RB12#6	5.94	13	PASS
				RB12#13	6.24	13	PASS
				RB25#0	6.25	13	PASS
			HCH	RB1#0	4.85	13	PASS
				RB1#13	4.47	13	PASS
				RB1#24	4.17	13	PASS
				RB12#0	5.69	13	PASS
				RB12#6	5.39	13	PASS
				RB12#13	5.6	13	PASS
				RB25#0	5.9	13	PASS
		10	LCH	RB1#0	5.31	13	PASS
				RB1#25	5.16	13	PASS
				RB1#49	5.55	13	PASS
				RB25#0	6.52	13	PASS
				RB25#13	6.26	13	PASS
				RB25#25	6.59	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.85	13	PASS
			MCH	RB1#0	5.26	13	PASS
				RB1#25	5.02	13	PASS
				RB1#49	5.32	13	PASS
				RB25#0	6.29	13	PASS
				RB25#13	5.95	13	PASS
				RB25#25	6.35	13	PASS
				RB50#0	6.59	13	PASS
			HCH	RB1#0	4.89	13	PASS
				RB1#25	4.4	13	PASS
				RB1#49	4.75	13	PASS
				RB25#0	5.83	13	PASS
				RB25#13	5.5	13	PASS
				RB25#25	5.82	13	PASS
				RB50#0	6.21	13	PASS
		15	LCH	RB1#0	5	13	PASS
				RB1#38	5.15	13	PASS
				RB1#74	4.8	13	PASS
				RB36#0	6.37	13	PASS
				RB36#18	6.23	13	PASS
				RB36#39	6.33	13	PASS
				RB75#0	6.76	13	PASS
			MCH	RB1#0	4.73	13	PASS
				RB1#38	4.83	13	PASS
				RB1#74	4.84	13	PASS
				RB36#0	6.06	13	PASS
				RB36#18	5.99	13	PASS
				RB36#39	6.19	13	PASS
				RB75#0	6.61	13	PASS
			HCH	RB1#0	4.64	13	PASS
				RB1#38	4.43	13	PASS
				RB1#74	4.31	13	PASS
				RB36#0	5.75	13	PASS
				RB36#18	5.47	13	PASS
				RB36#39	5.66	13	PASS
				RB75#0	6.34	13	PASS
		20	LCH	RB1#0	4.76	13	PASS
				RB1#50	4.91	13	PASS
				RB1#99	4.54	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.36	13	PASS
				RB50#25	6.29	13	PASS
				RB50#50	6.27	13	PASS
				RB100#0	6.74	13	PASS
			MCH	RB1#0	4.44	13	PASS
				RB1#50	4.67	13	PASS
				RB1#99	4.71	13	PASS
				RB50#0	5.86	13	PASS
				RB50#25	5.96	13	PASS
				RB50#50	6.09	13	PASS
				RB100#0	6.56	13	PASS
			HCH	RB1#0	4.38	13	PASS
				RB1#50	4.24	13	PASS
				RB1#99	4.38	13	PASS
				RB50#0	5.84	13	PASS
				RB50#25	5.57	13	PASS
				RB50#50	5.66	13	PASS
				RB100#0	6.24	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

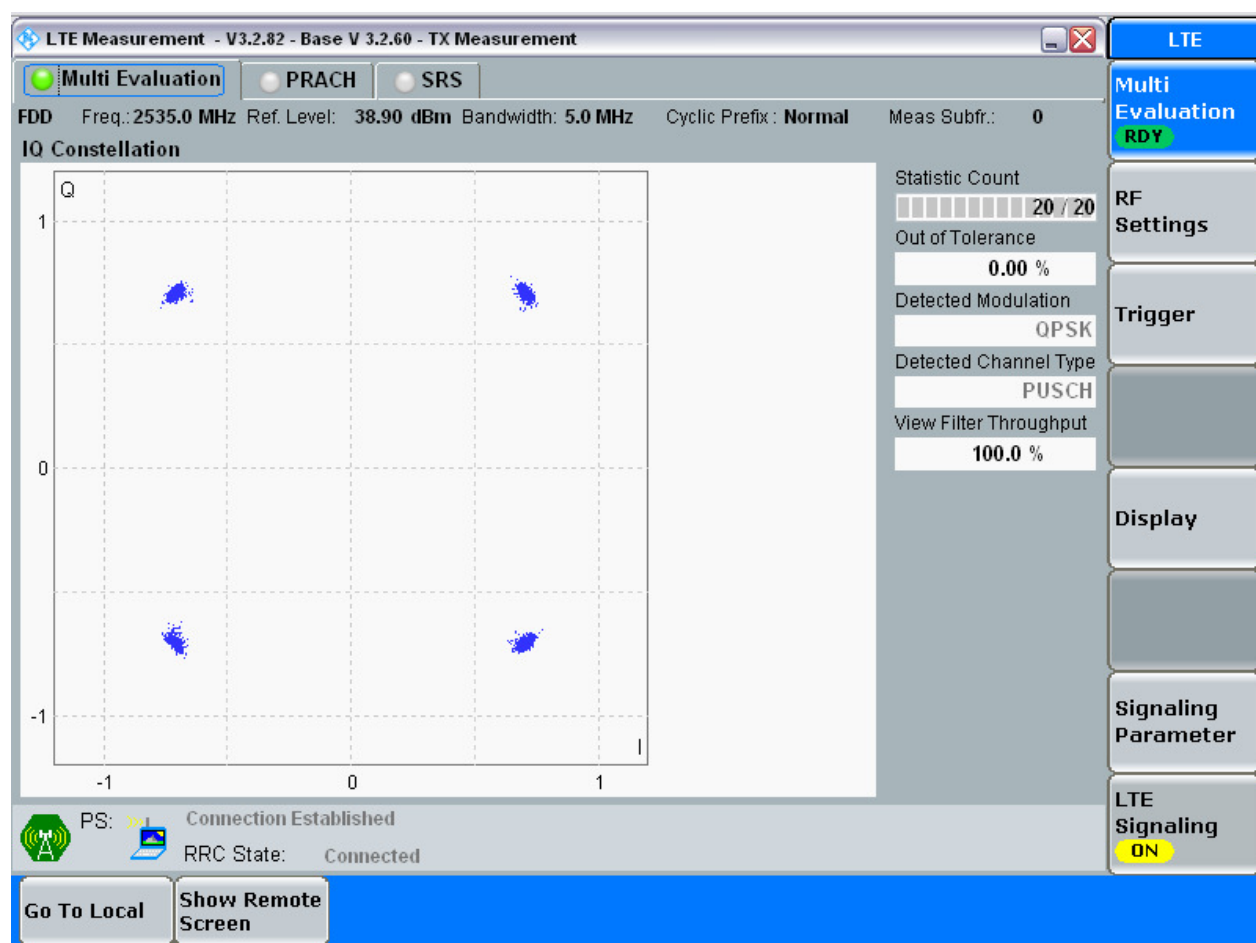
3.1.1 Test Band = BAND7

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

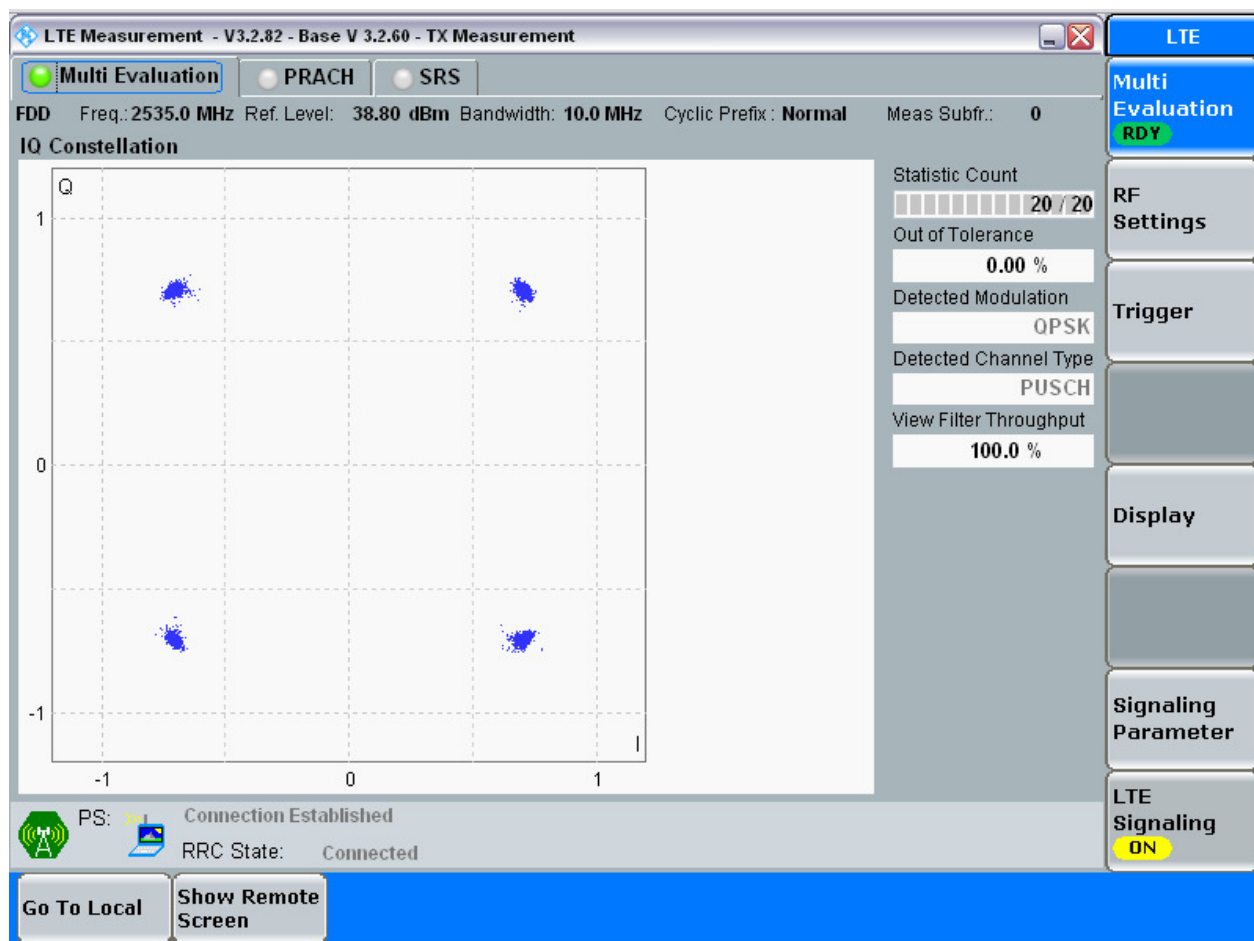
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

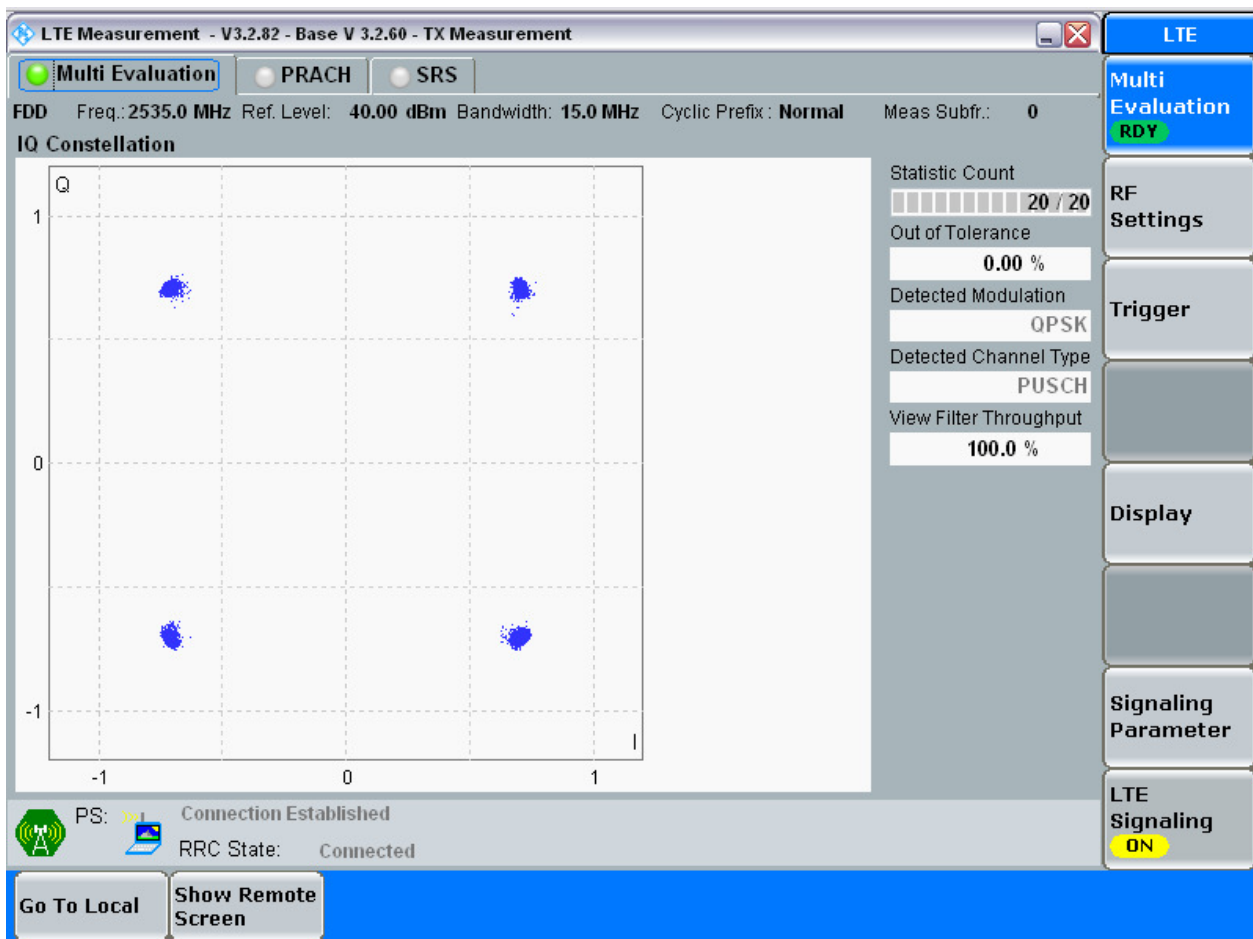
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

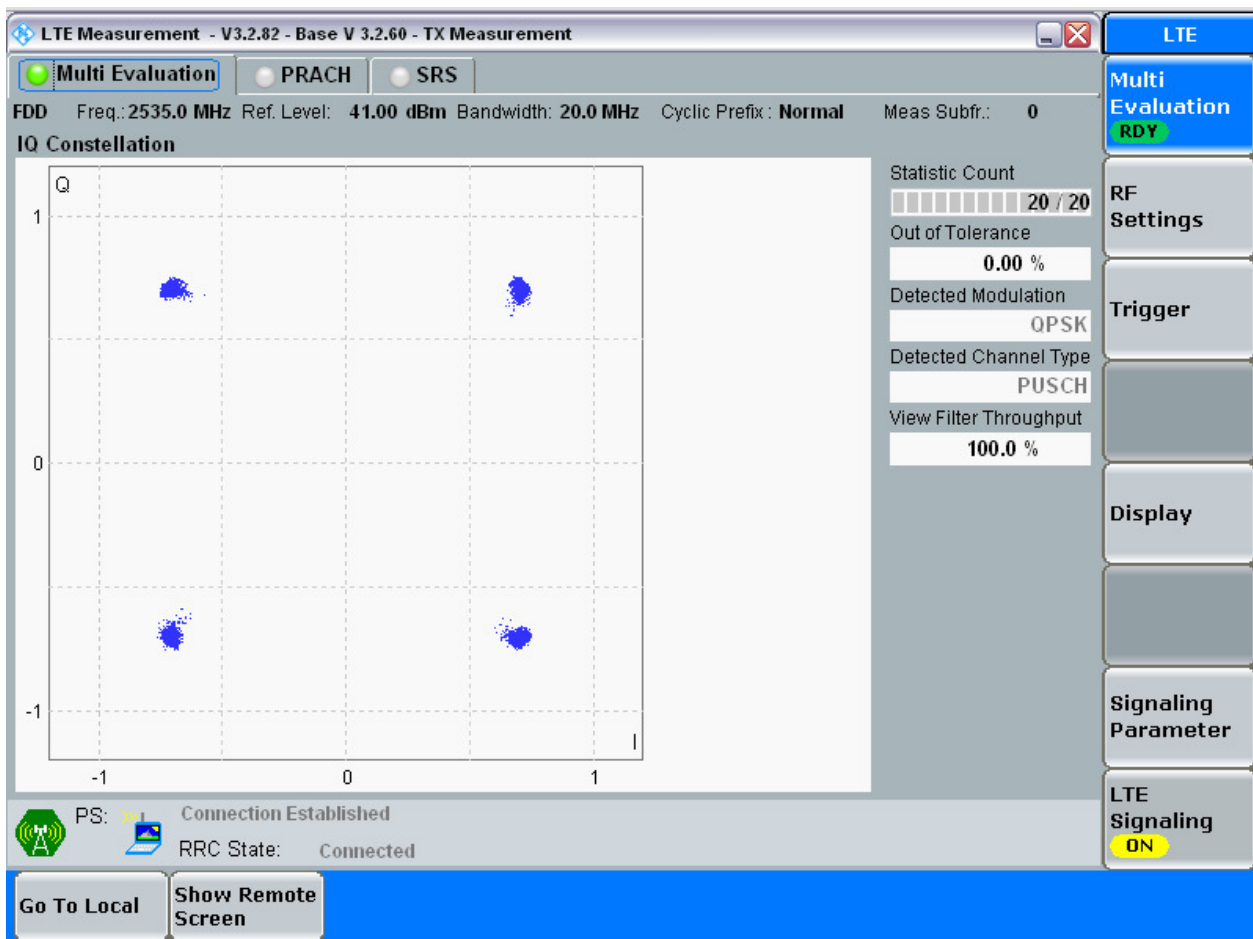
3.1.1.1.3.1.1 Test RB = RB75#0



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

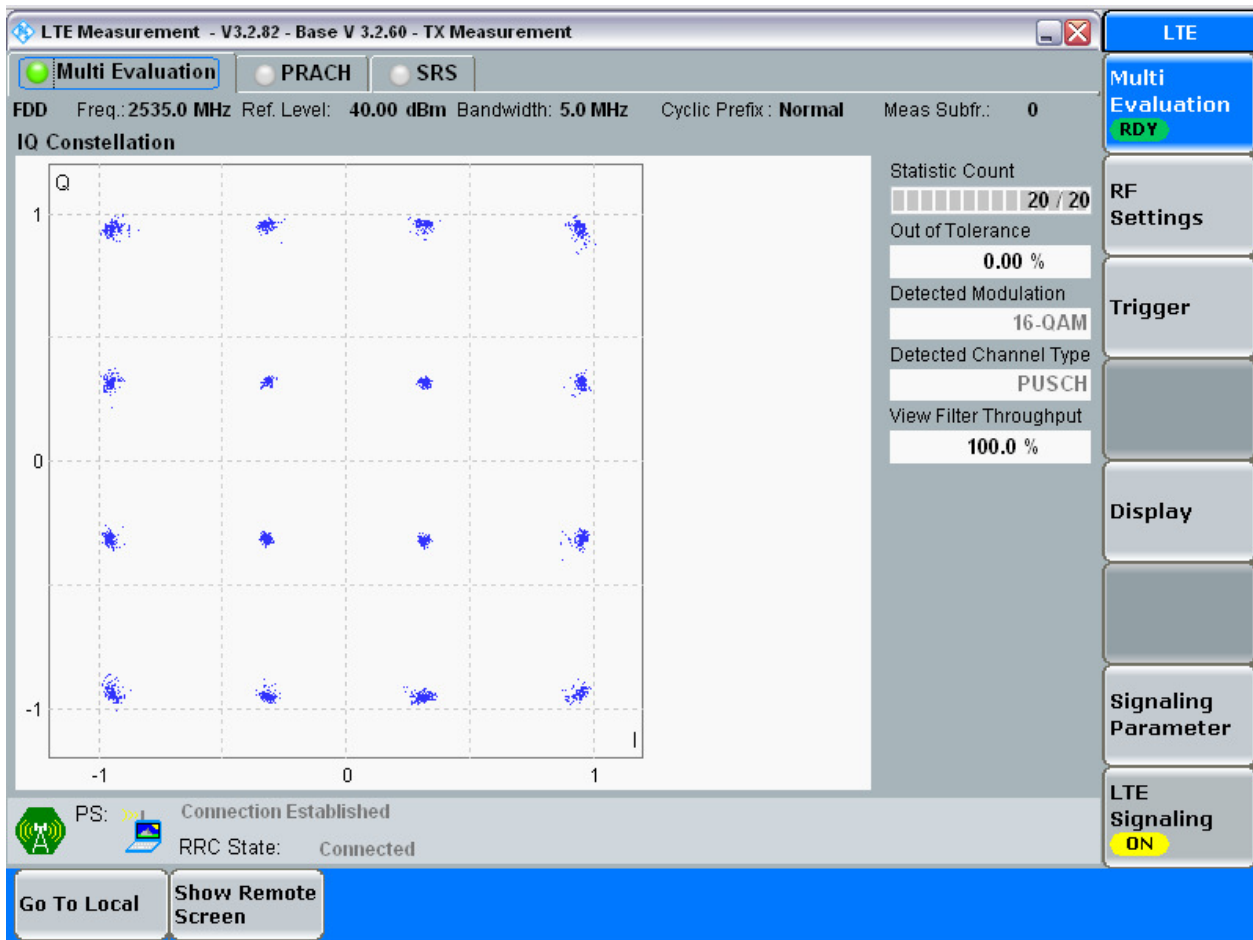


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

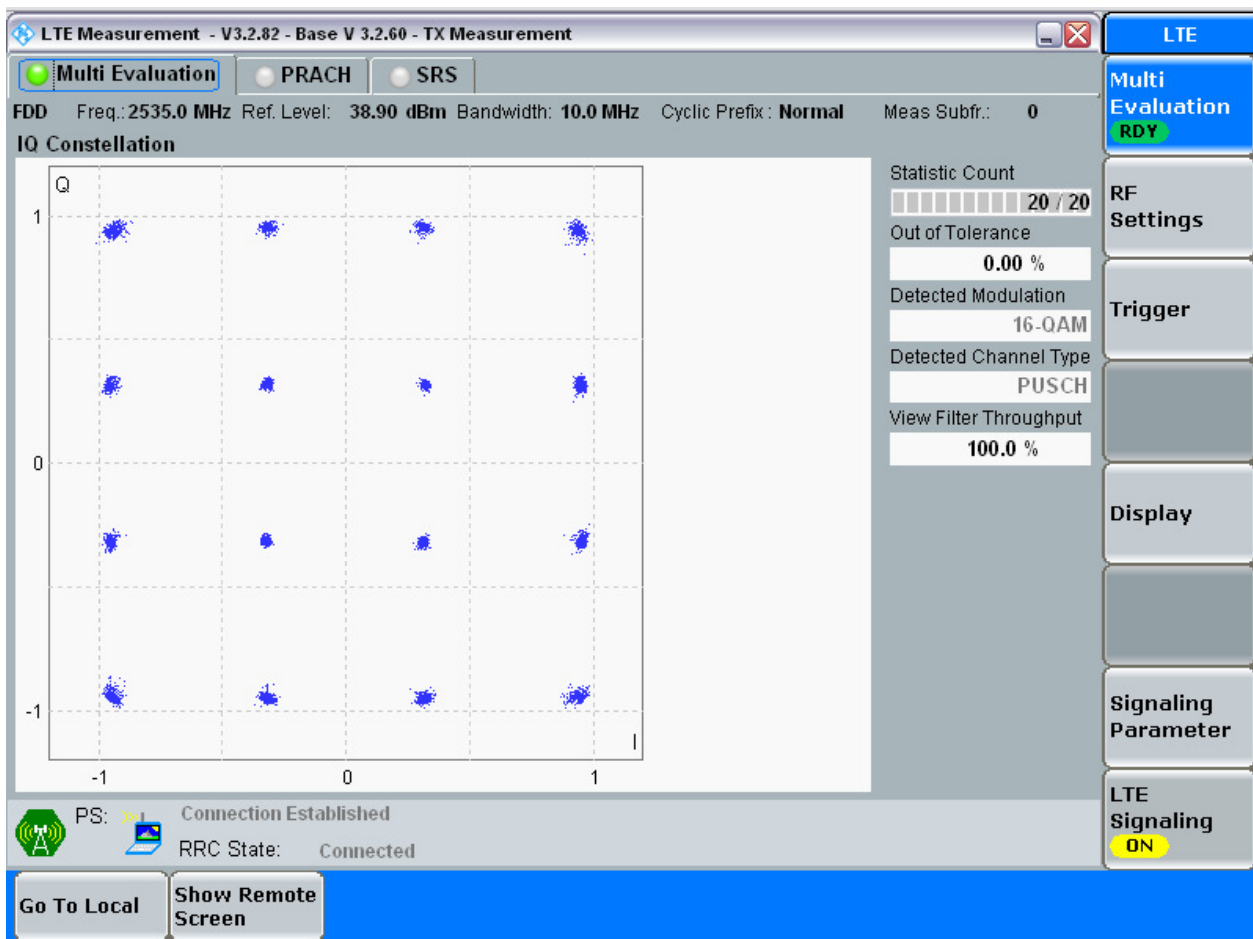
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

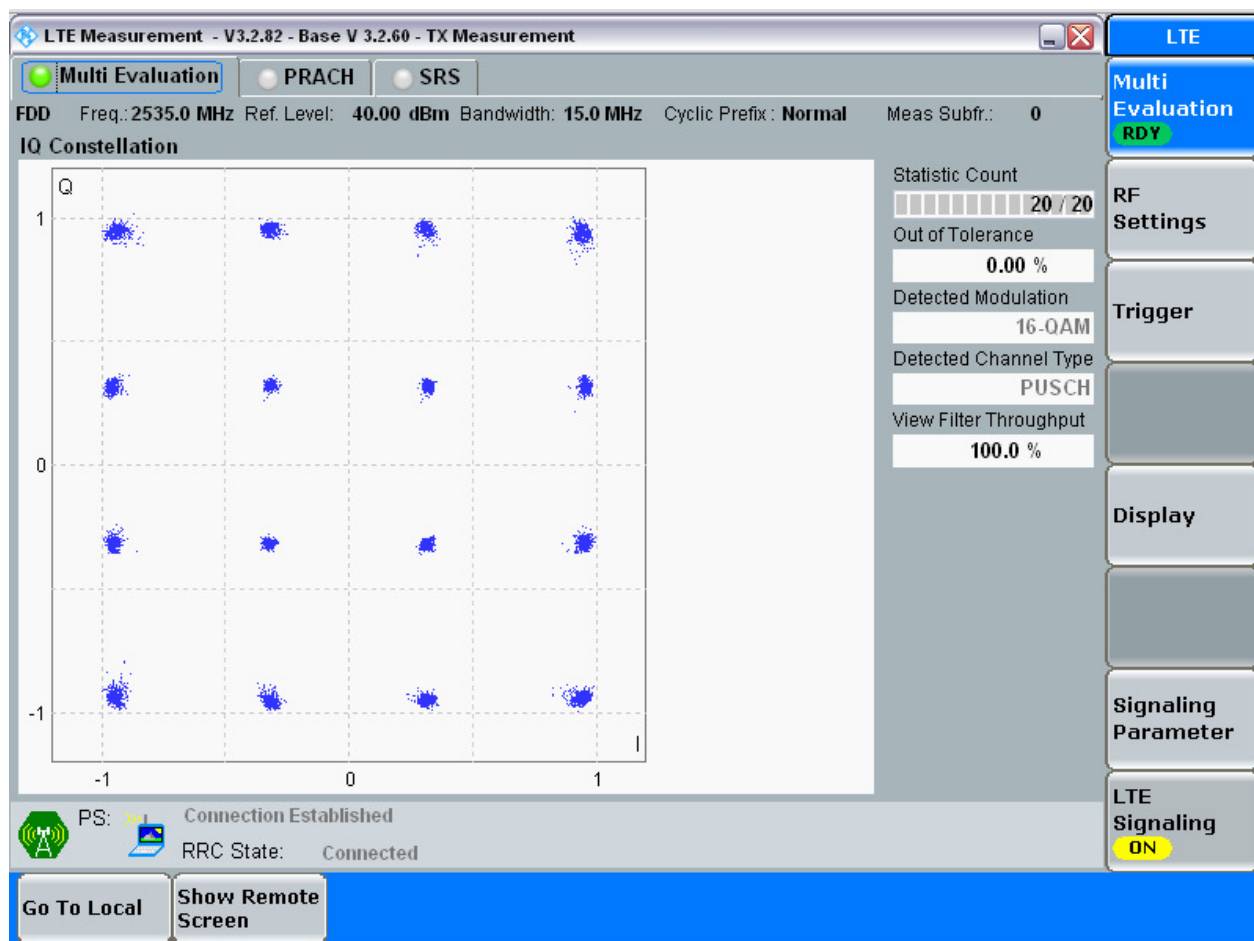
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

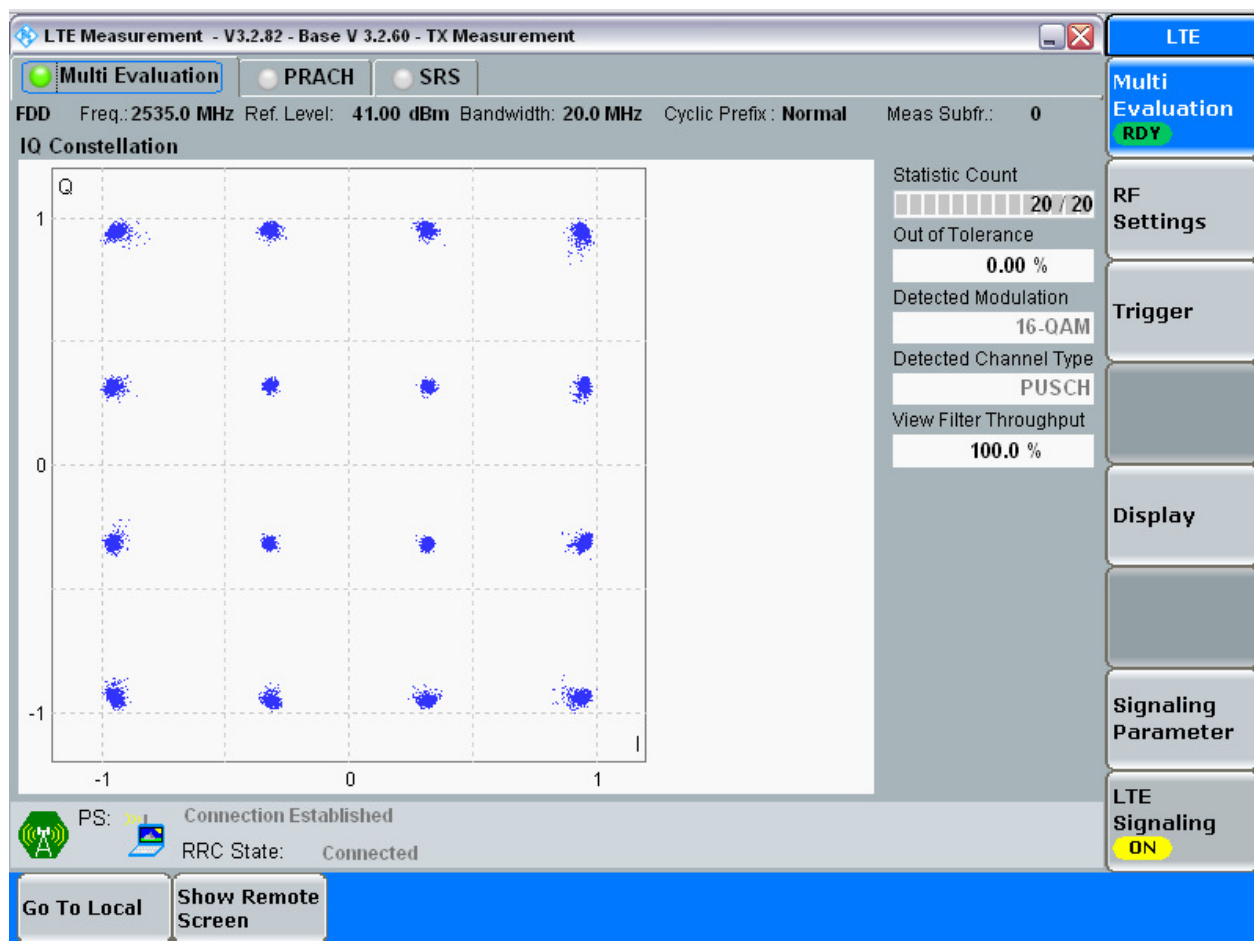
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.88	Pass
			MCH	RB25#0	4.50	5.25	Pass
			HCH	RB25#0	4.50	5.04	Pass
		10	LCH	RB50#0	9.00	9.82	Pass
			MCH	RB50#0	9.00	9.70	Pass
			HCH	RB50#0	9.00	9.92	Pass
		15	LCH	RB75#0	13.50	14.72	Pass
			MCH	RB75#0	13.51	14.93	Pass
			HCH	RB75#0	13.50	14.47	Pass
		20	LCH	RB100#0	17.99	19.14	Pass
			MCH	RB100#0	17.99	19.45	Pass
			HCH	RB100#0	17.99	19.08	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	5.03	Pass
			MCH	RB25#0	4.50	5.20	Pass
			HCH	RB25#0	4.50	5.20	Pass
		10	LCH	RB50#0	9.01	9.97	Pass
			MCH	RB50#0	9.02	10.40	Pass
			HCH	RB50#0	9.01	9.83	Pass
		15	LCH	RB75#0	13.51	14.97	Pass
			MCH	RB75#0	13.50	14.87	Pass
			HCH	RB75#0	13.50	14.66	Pass
		20	LCH	RB100#0	17.99	19.15	Pass
			MCH	RB100#0	17.99	19.15	Pass
			HCH	RB100#0	17.99	19.23	Pass



Part II - Test Plots

4.1 For LTE

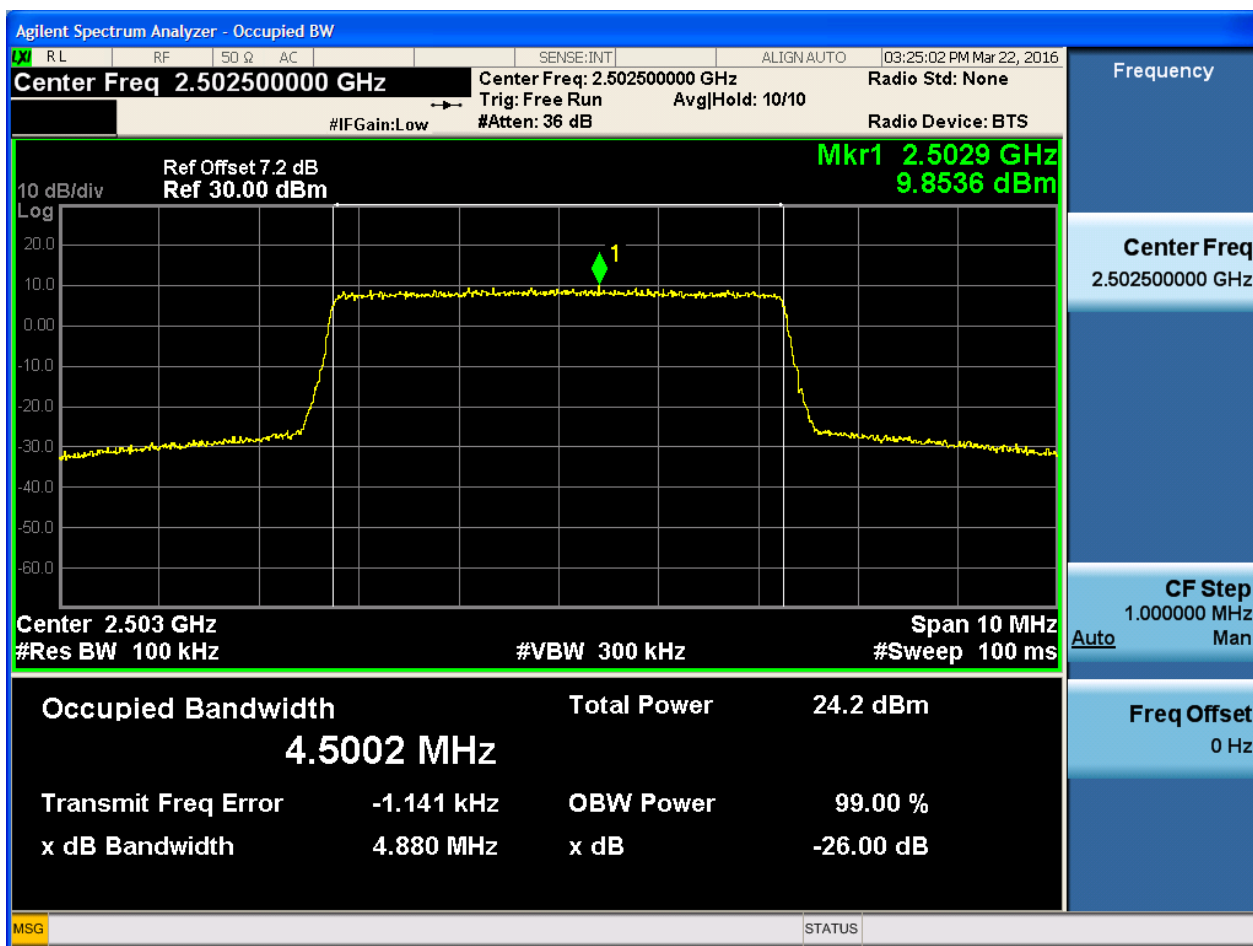
4.1.1 Test Band = BAND7

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

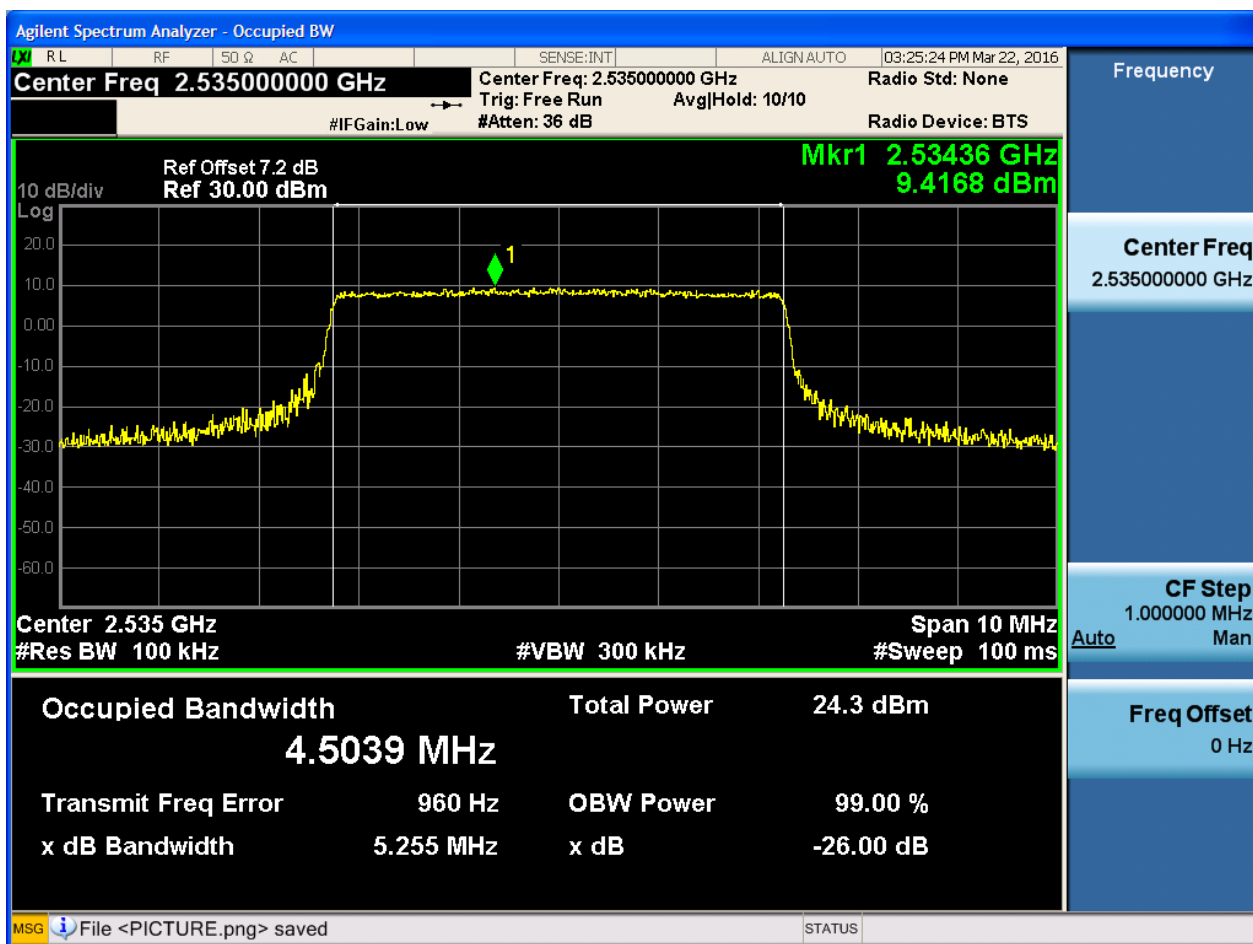
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

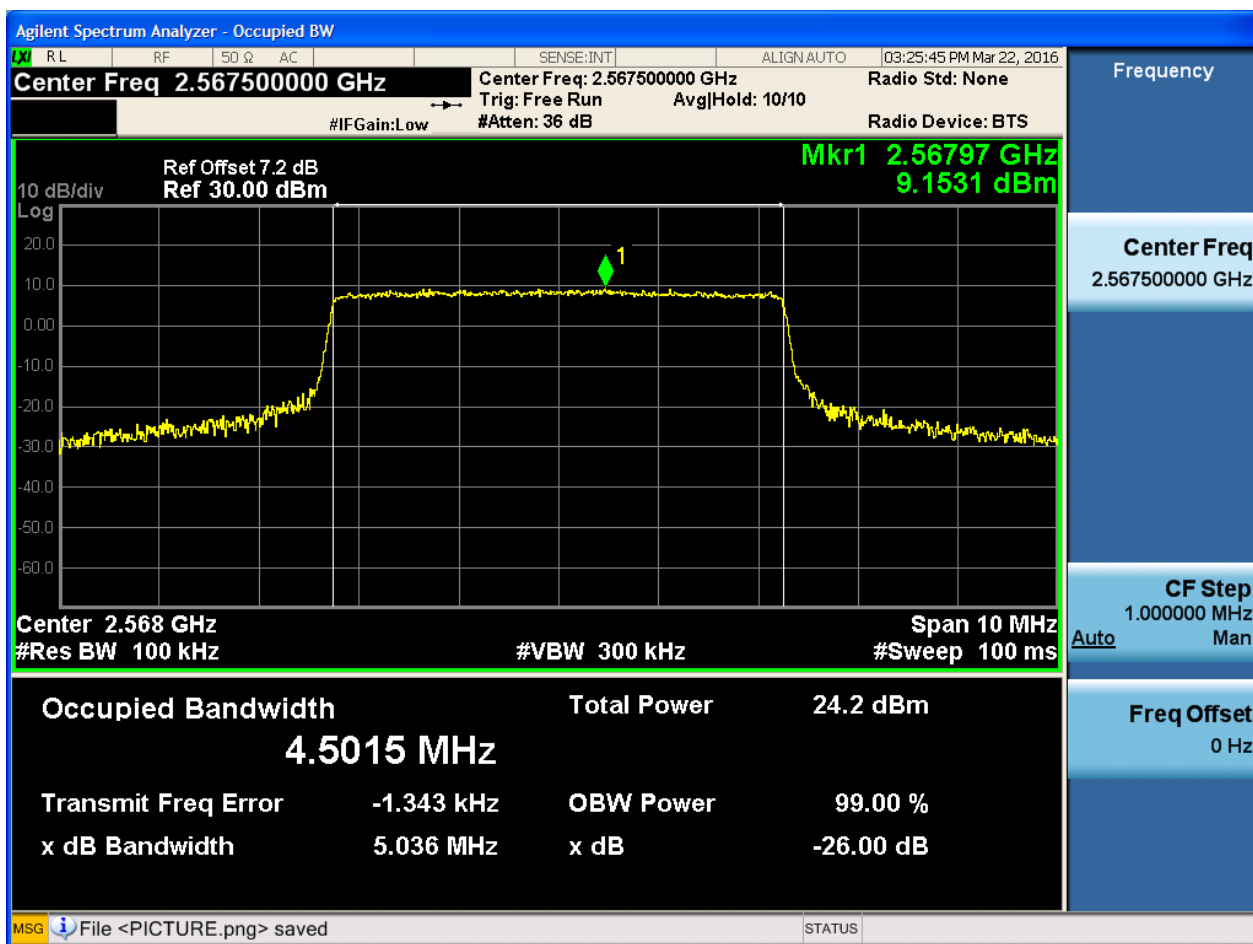
4.1.1.1.1.2.1 Test RB = RB25#0





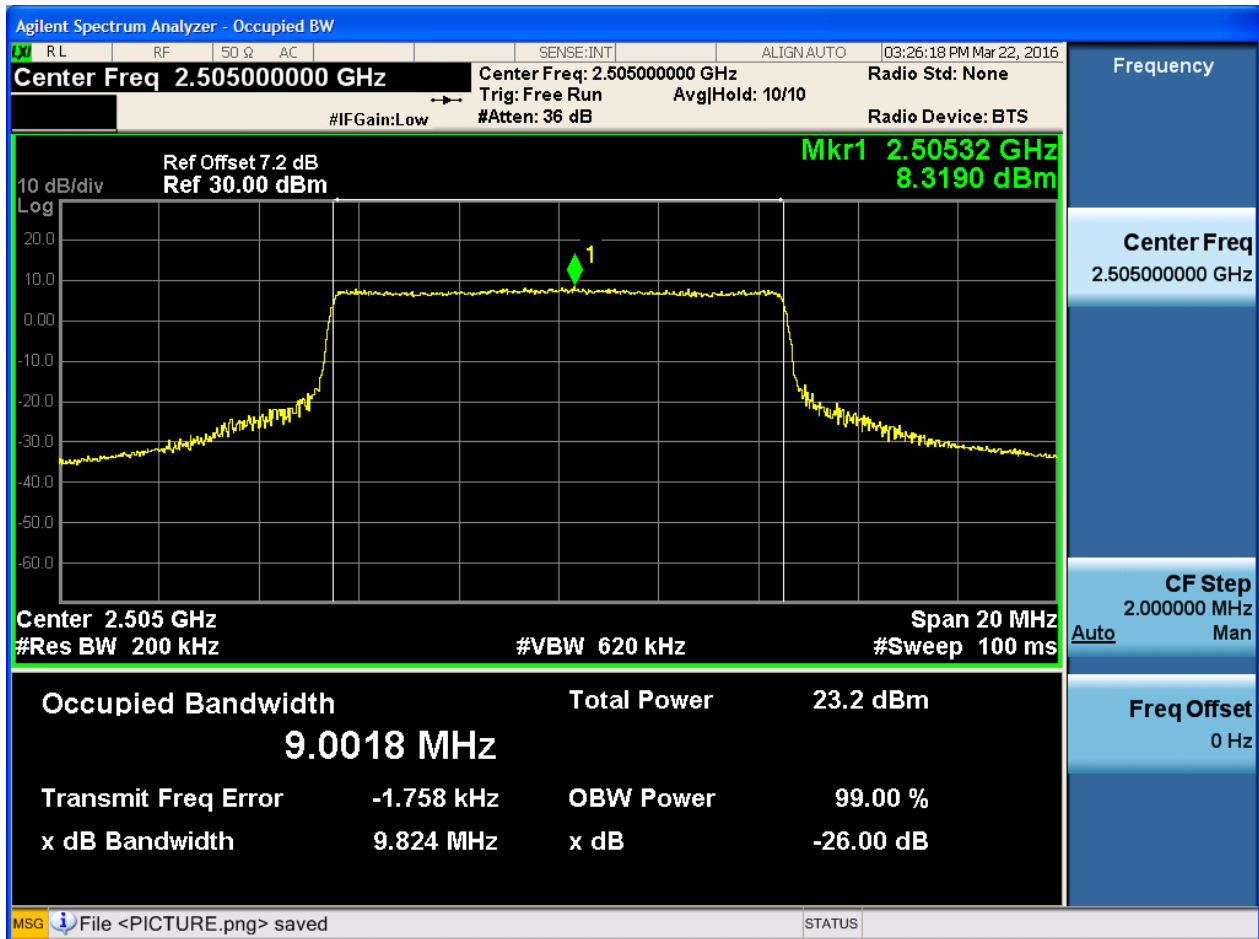
4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0





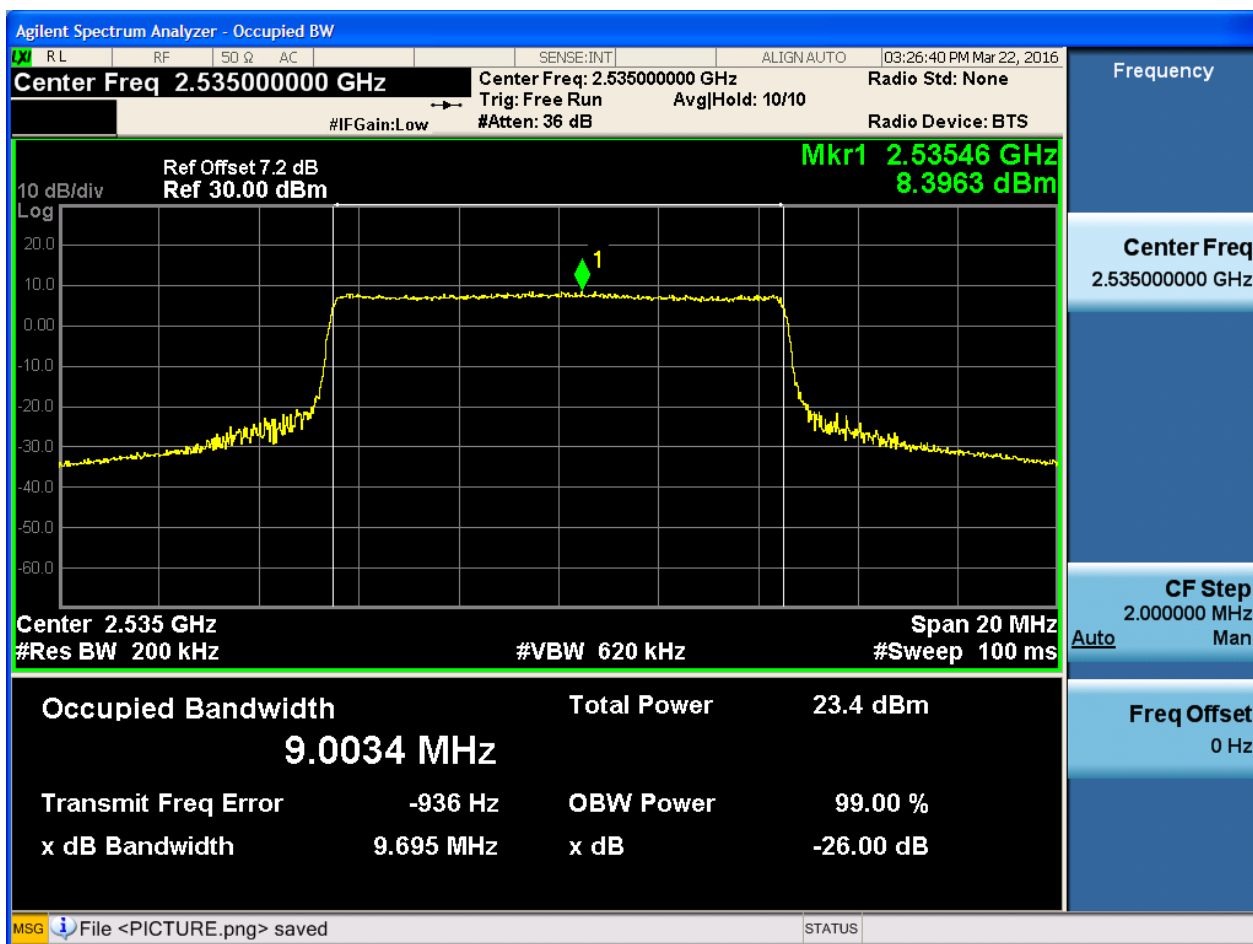
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

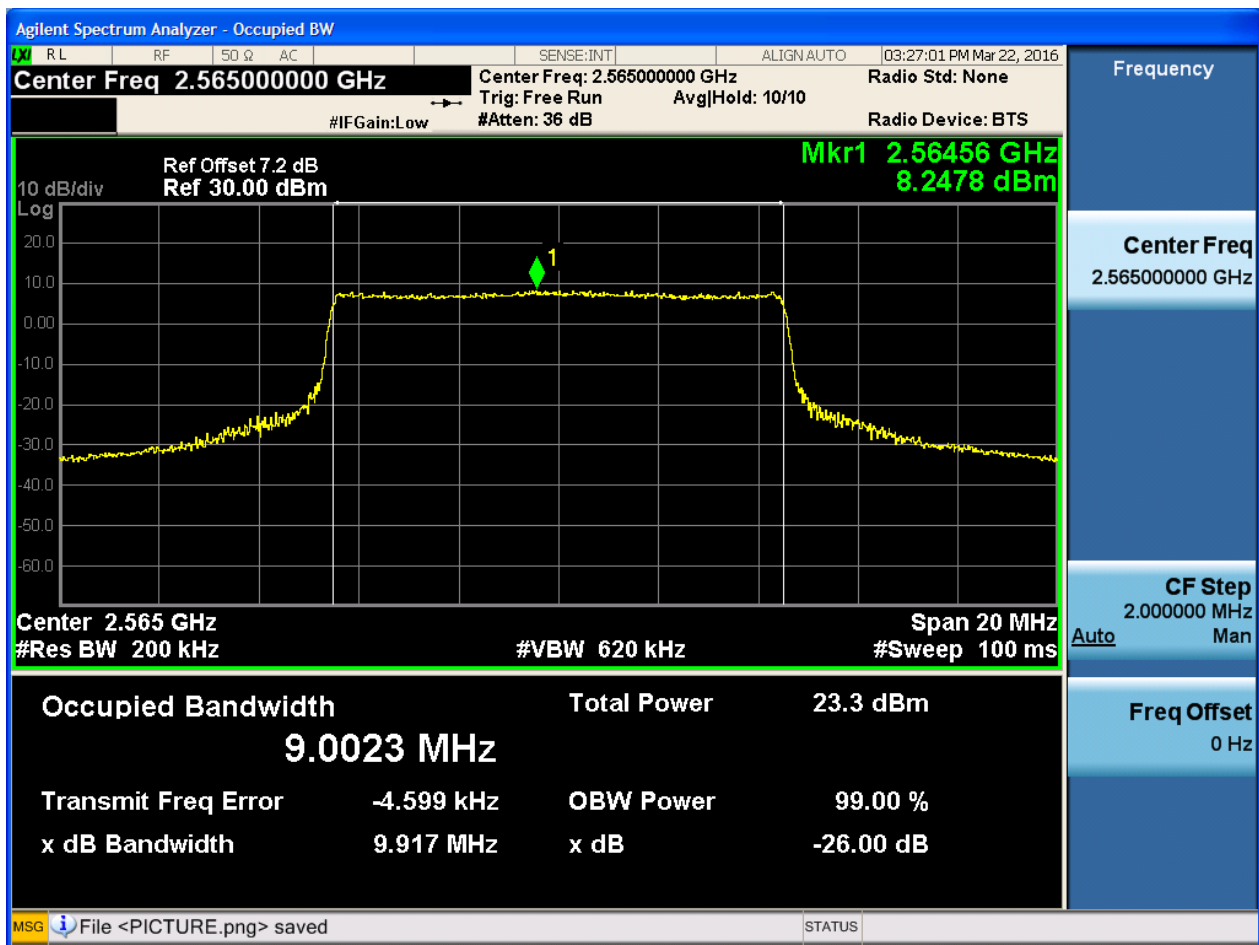
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

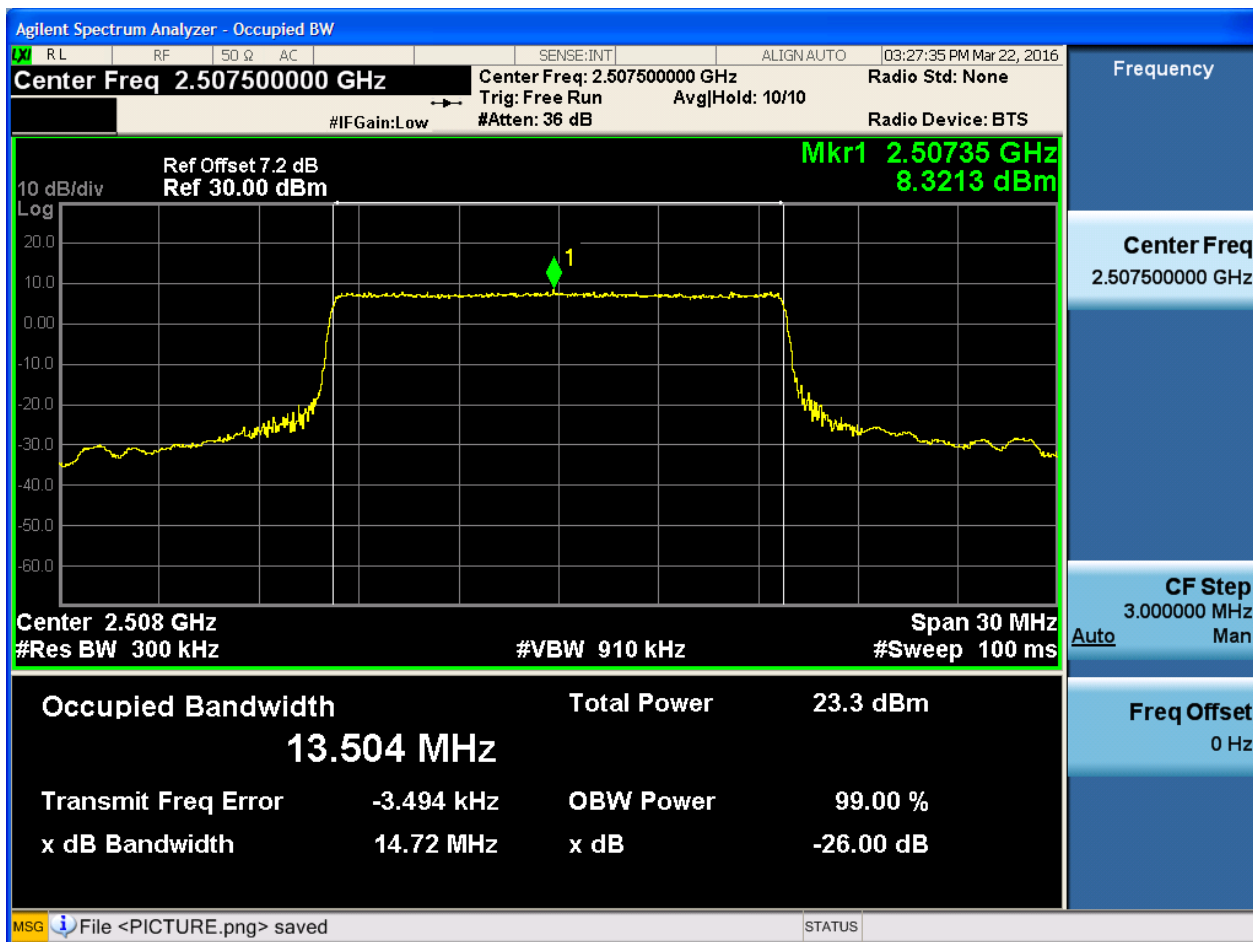




4.1.1.1.3 Test Bandwidth = 15

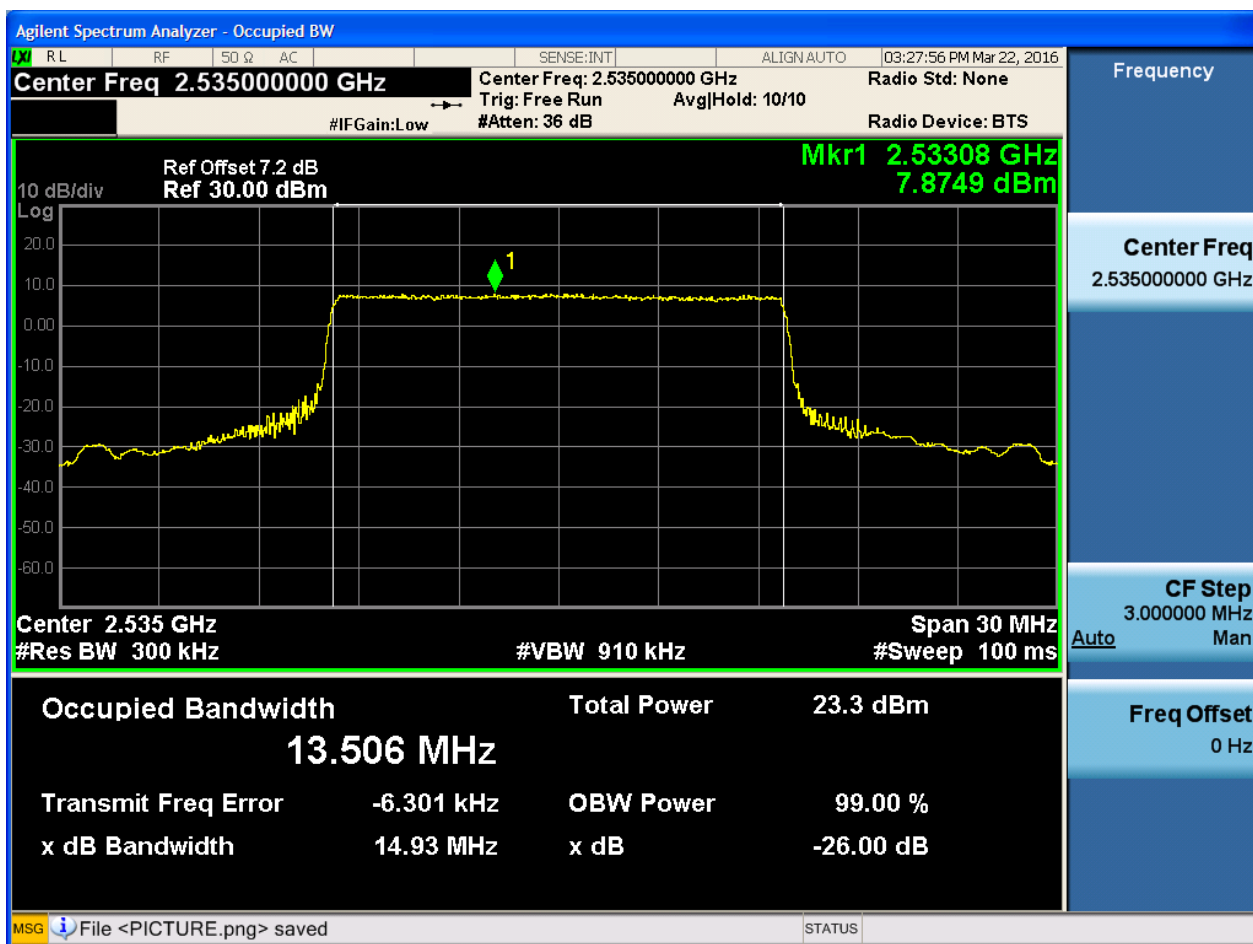
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



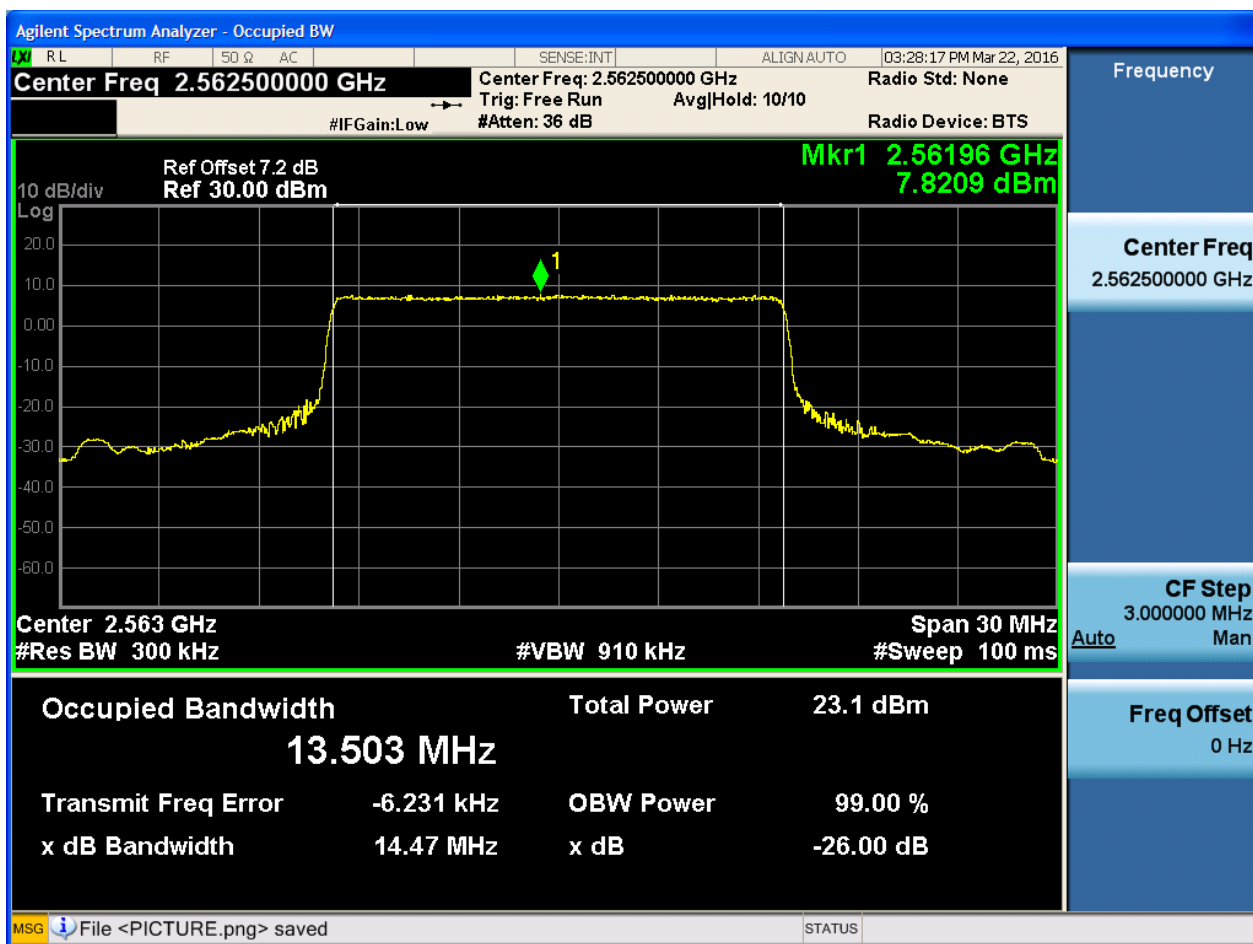
4.1.1.1.3.2 Test Channel = MCH

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

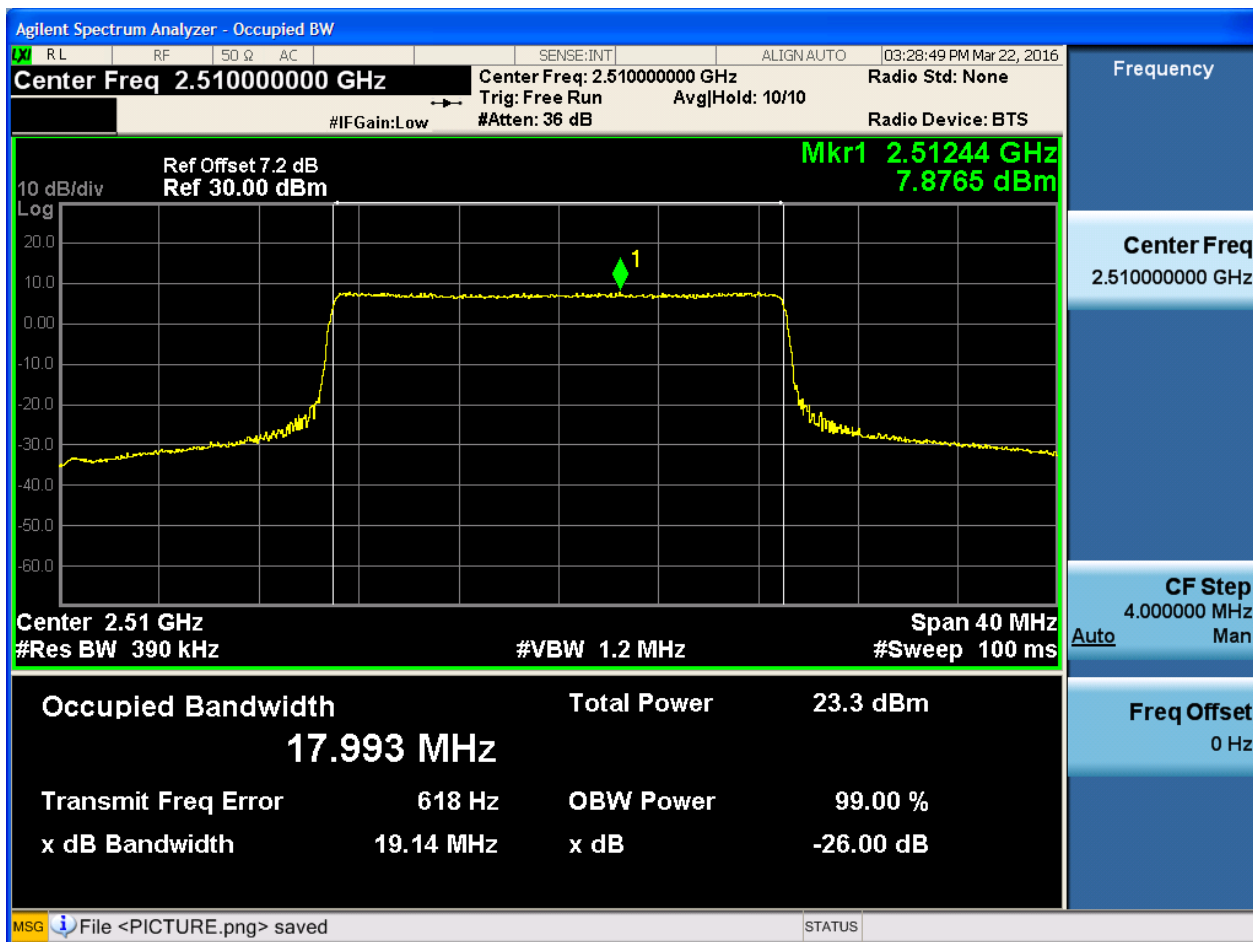




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

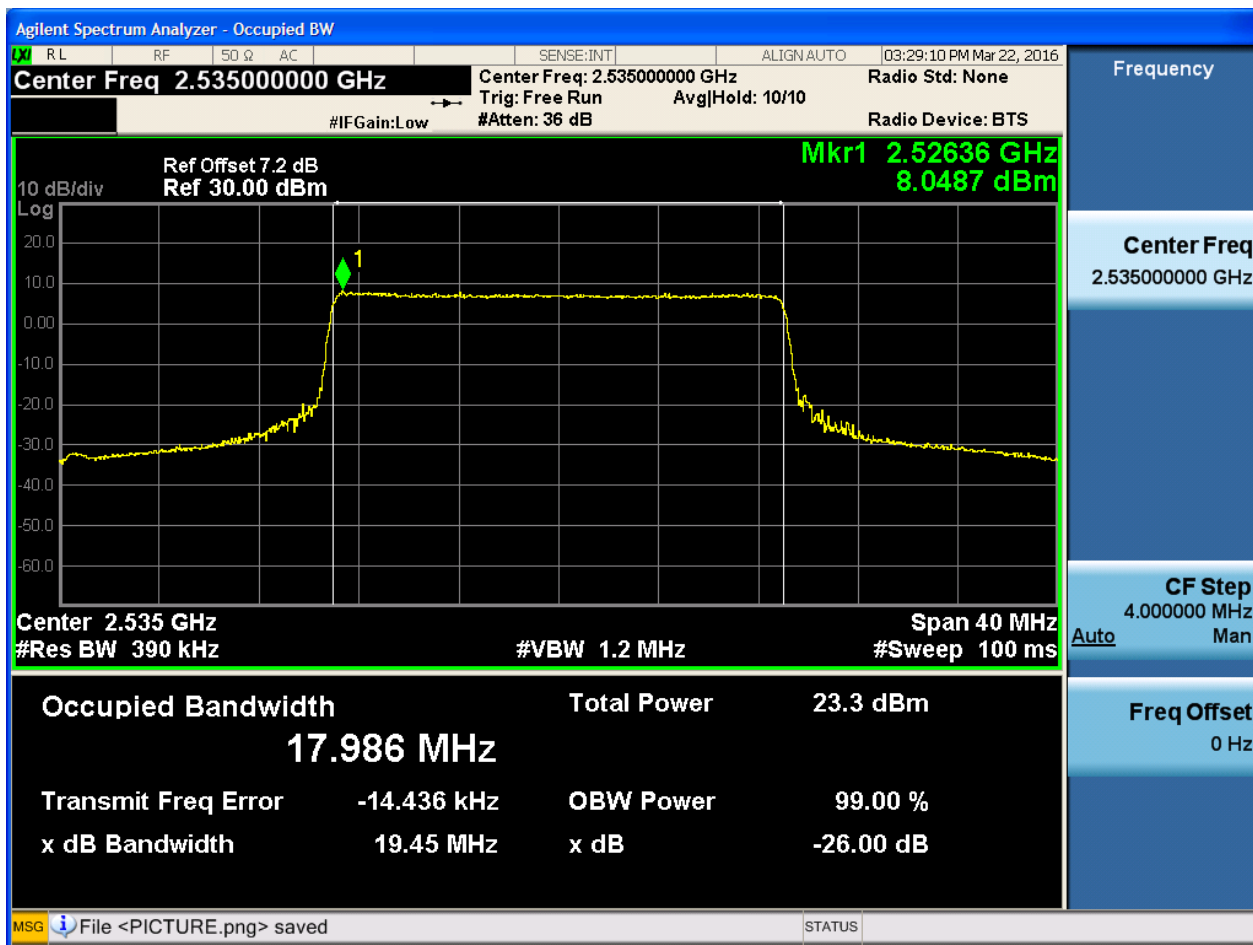
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

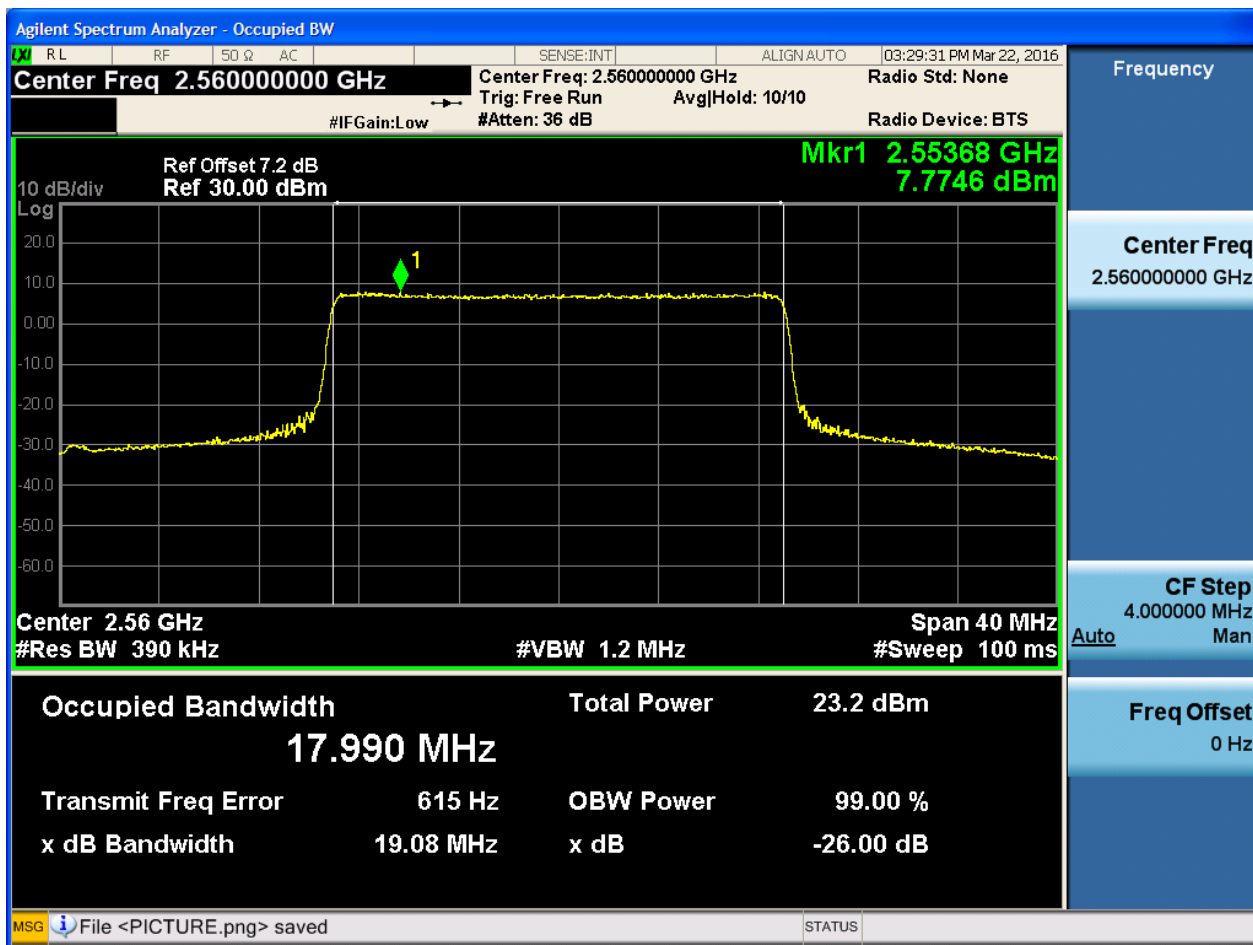
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0

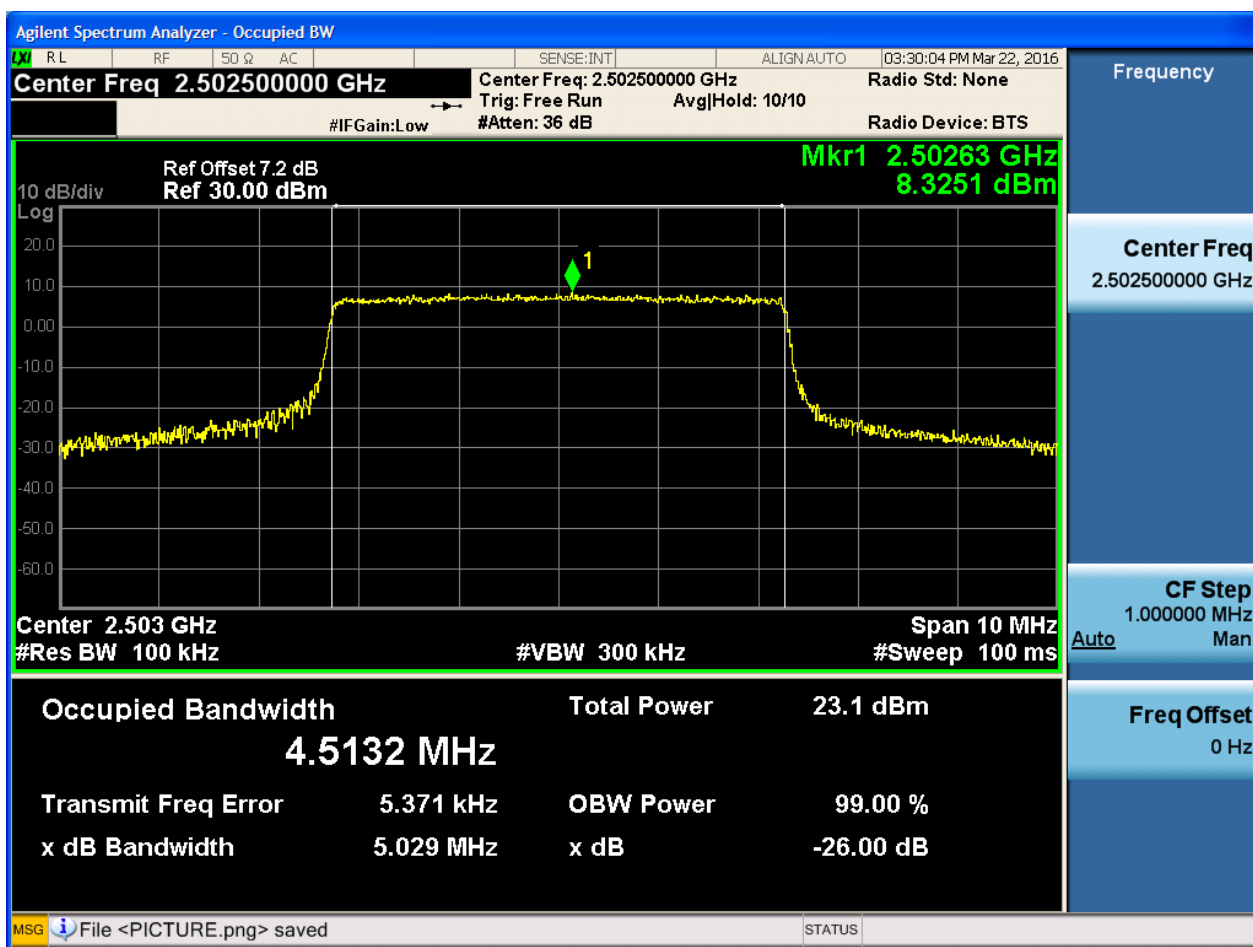


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

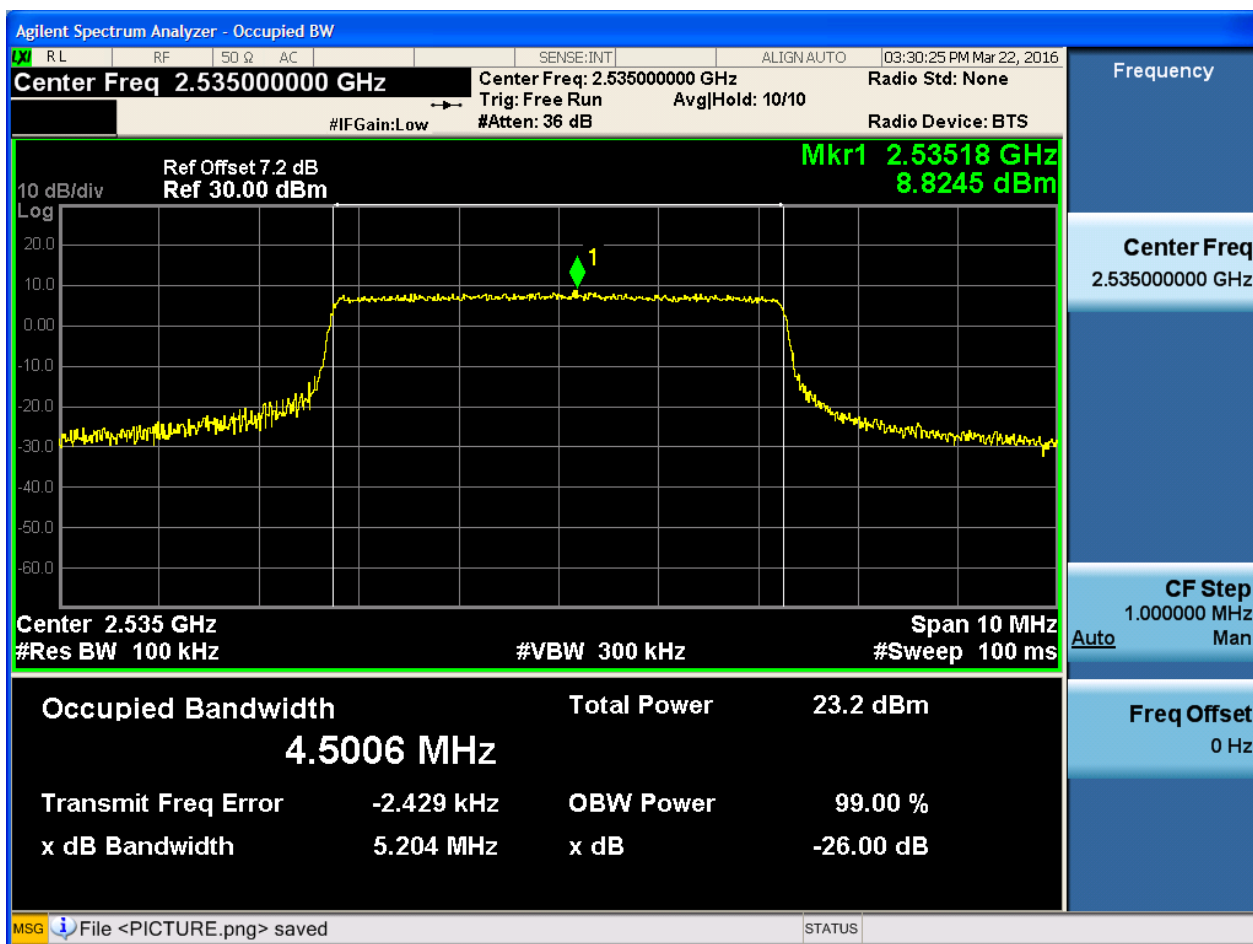
4.1.1.2.1.1.1 Test RB = RB25#0





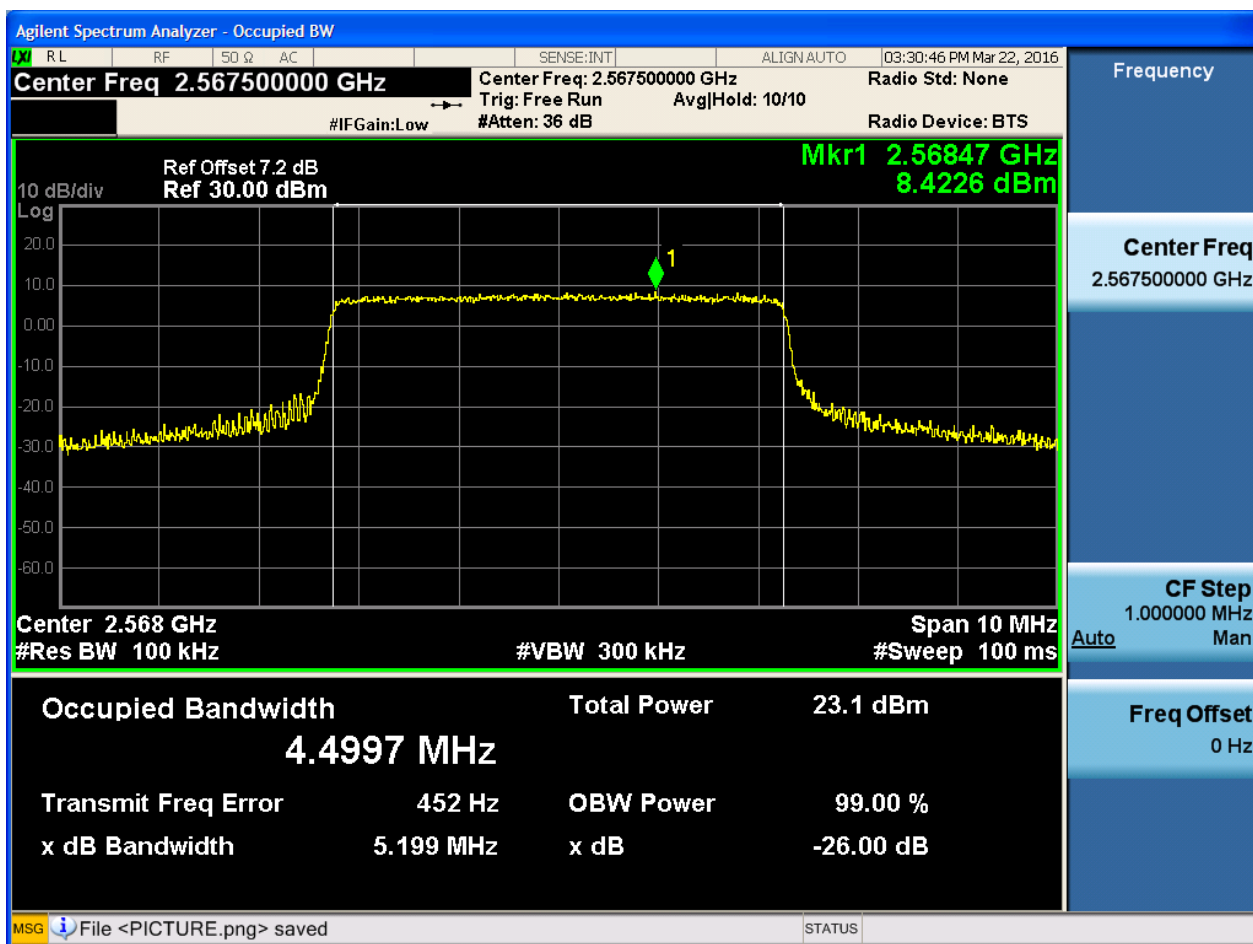
4.1.1.2.1.2 Test Channel = MCH

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

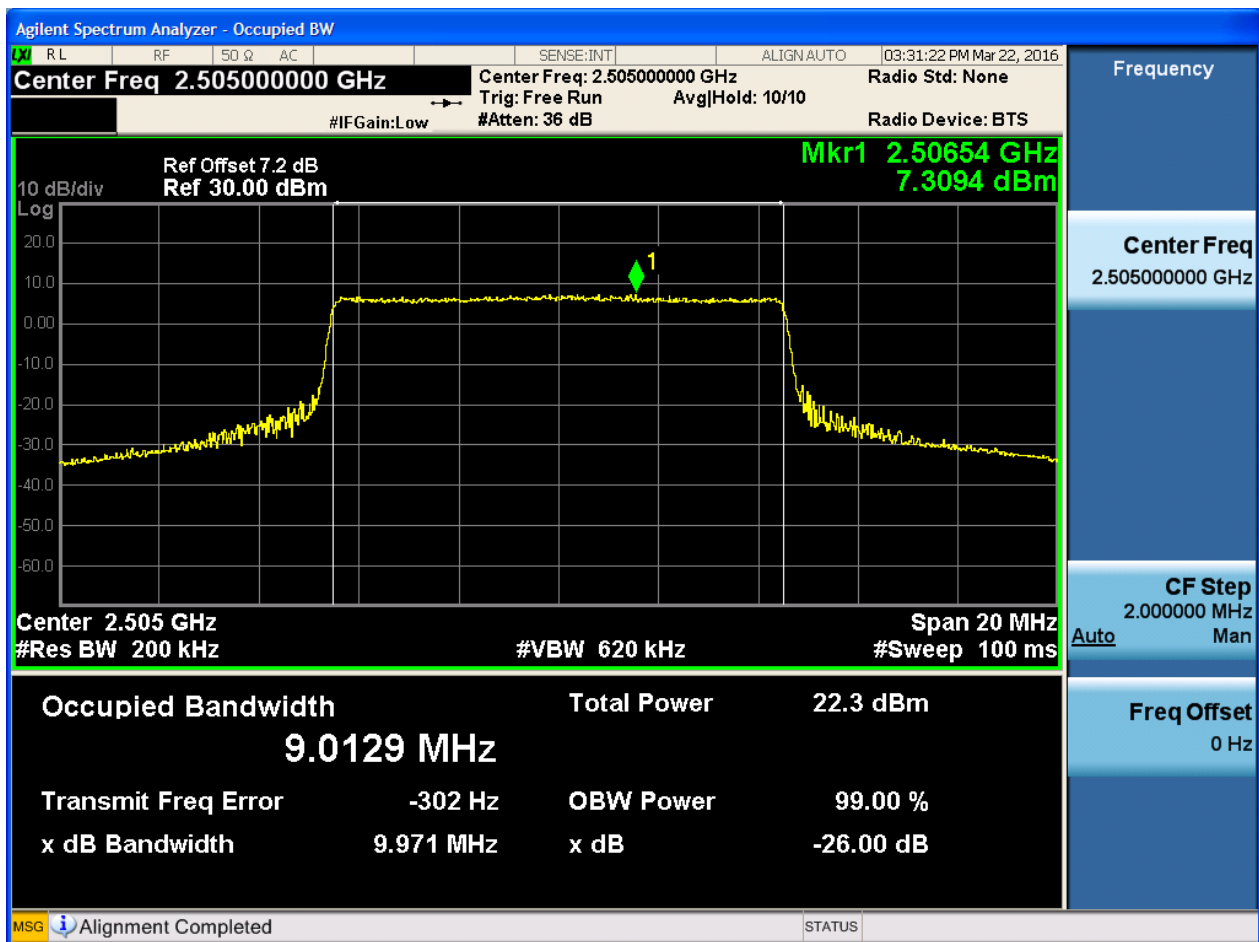




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

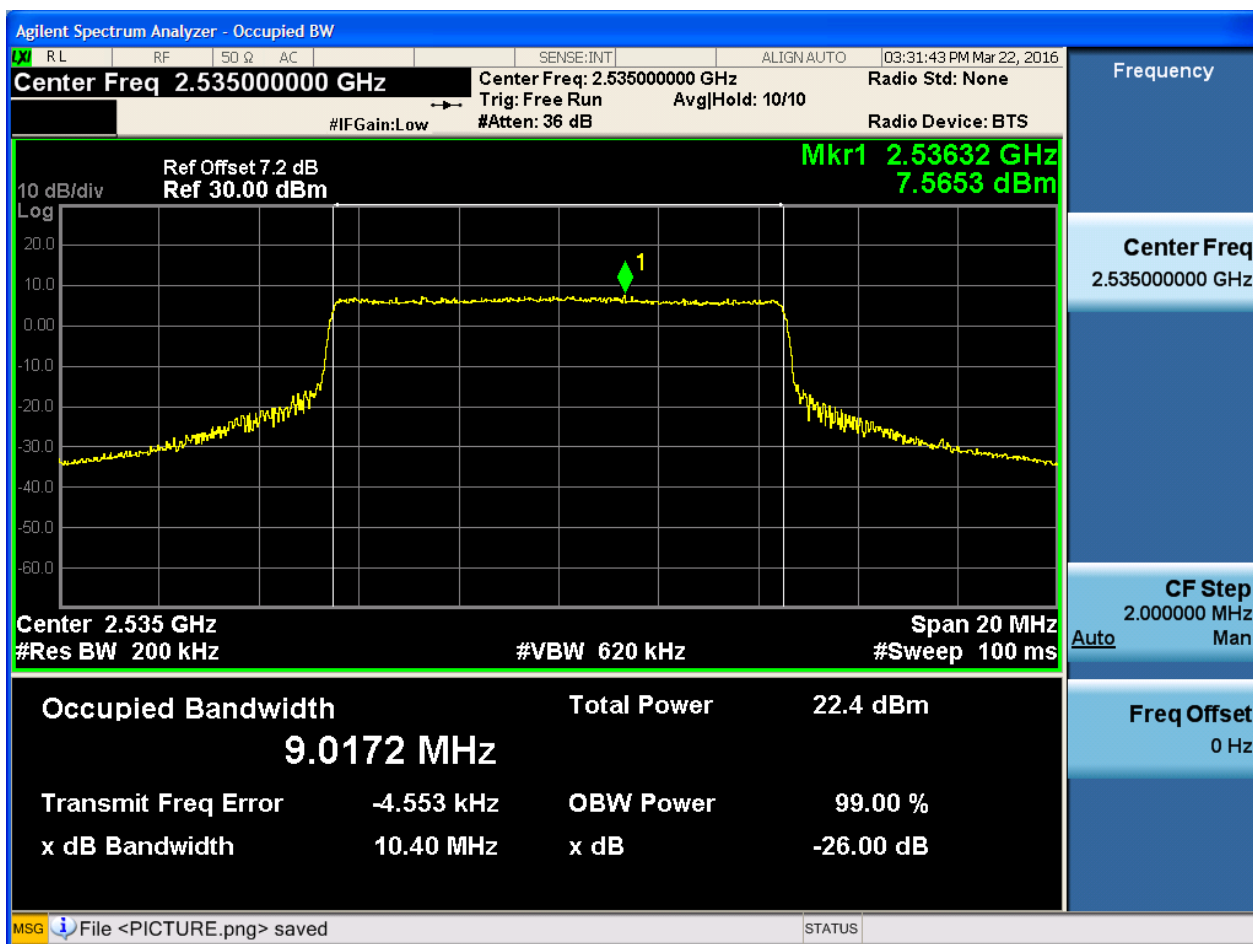
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

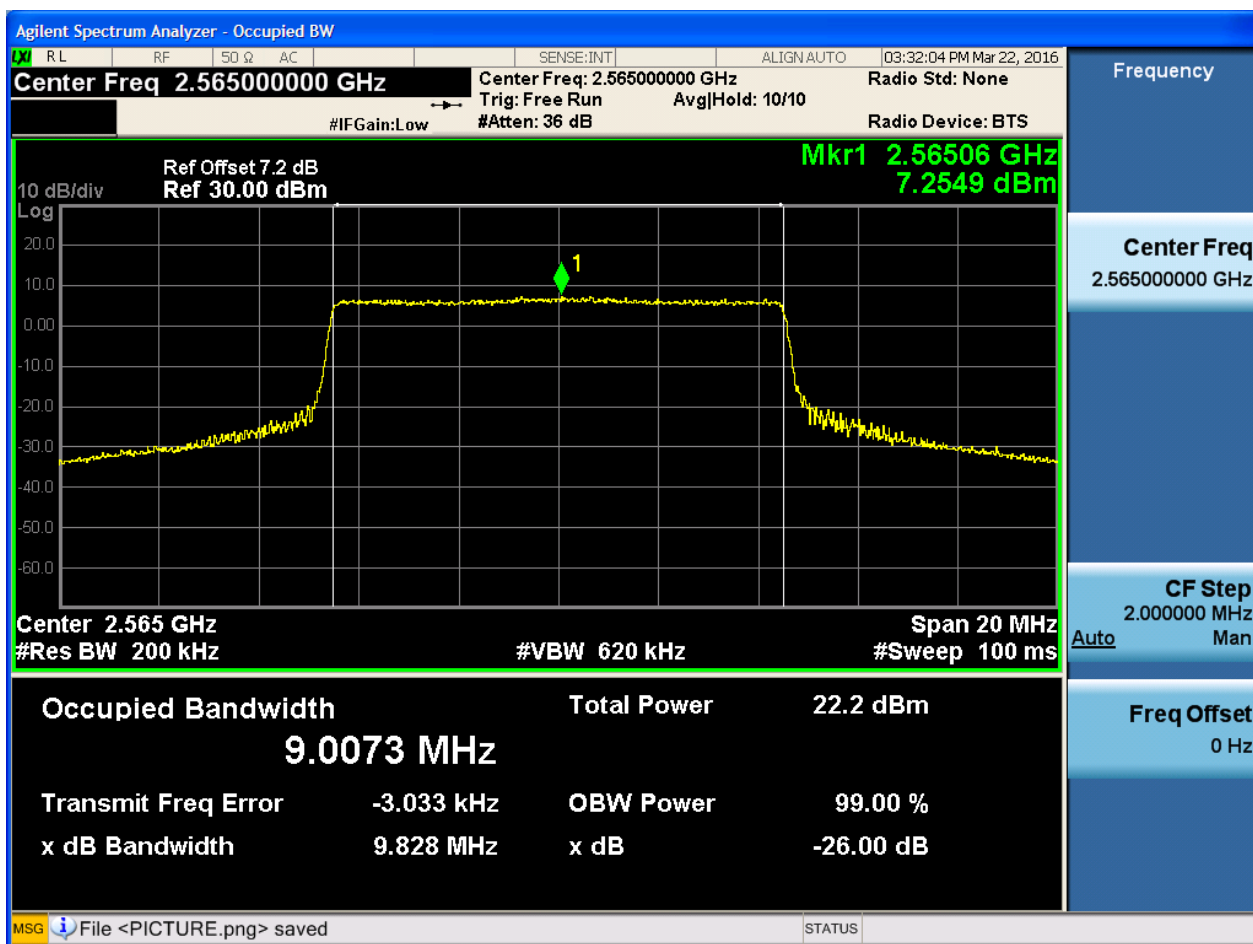
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

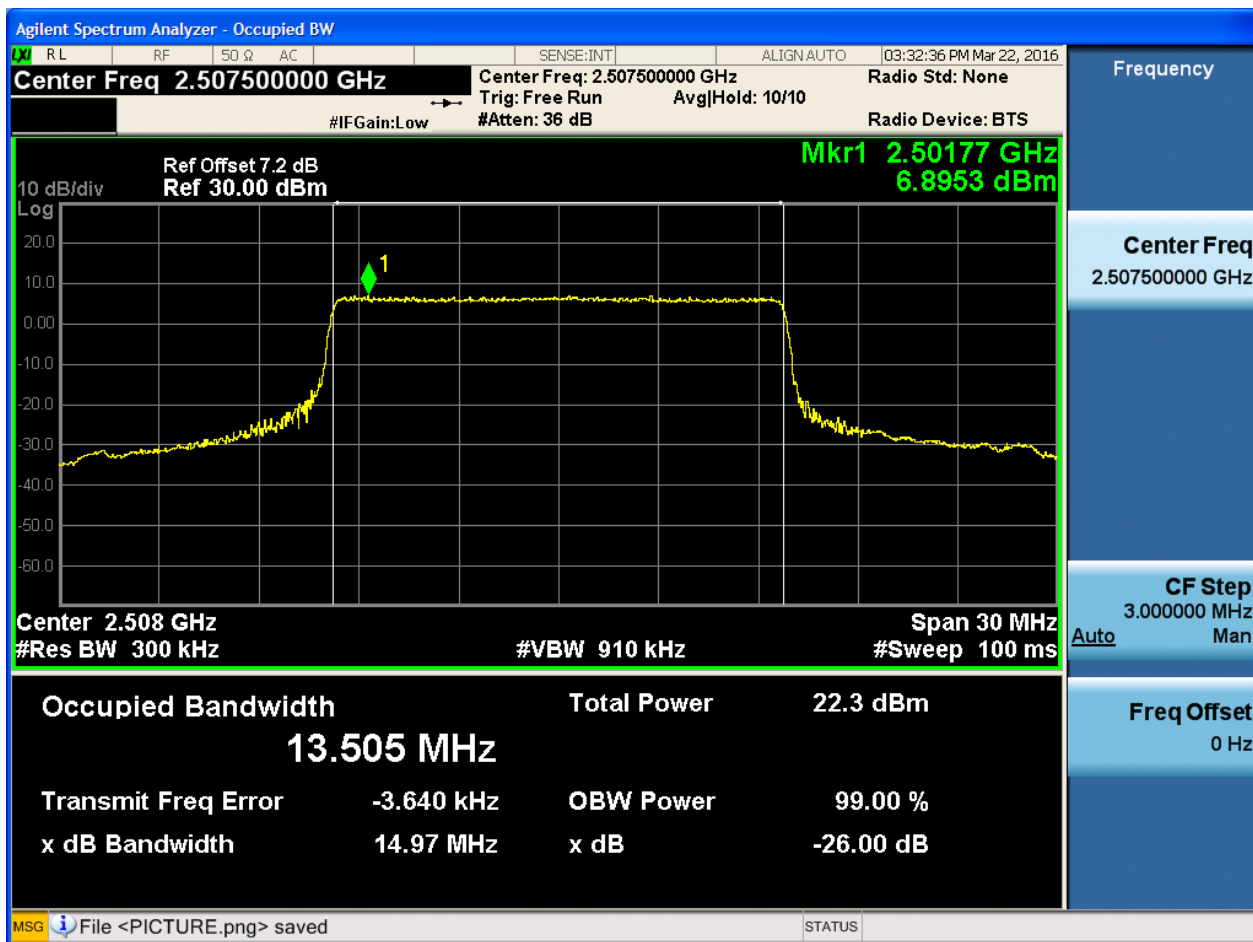




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

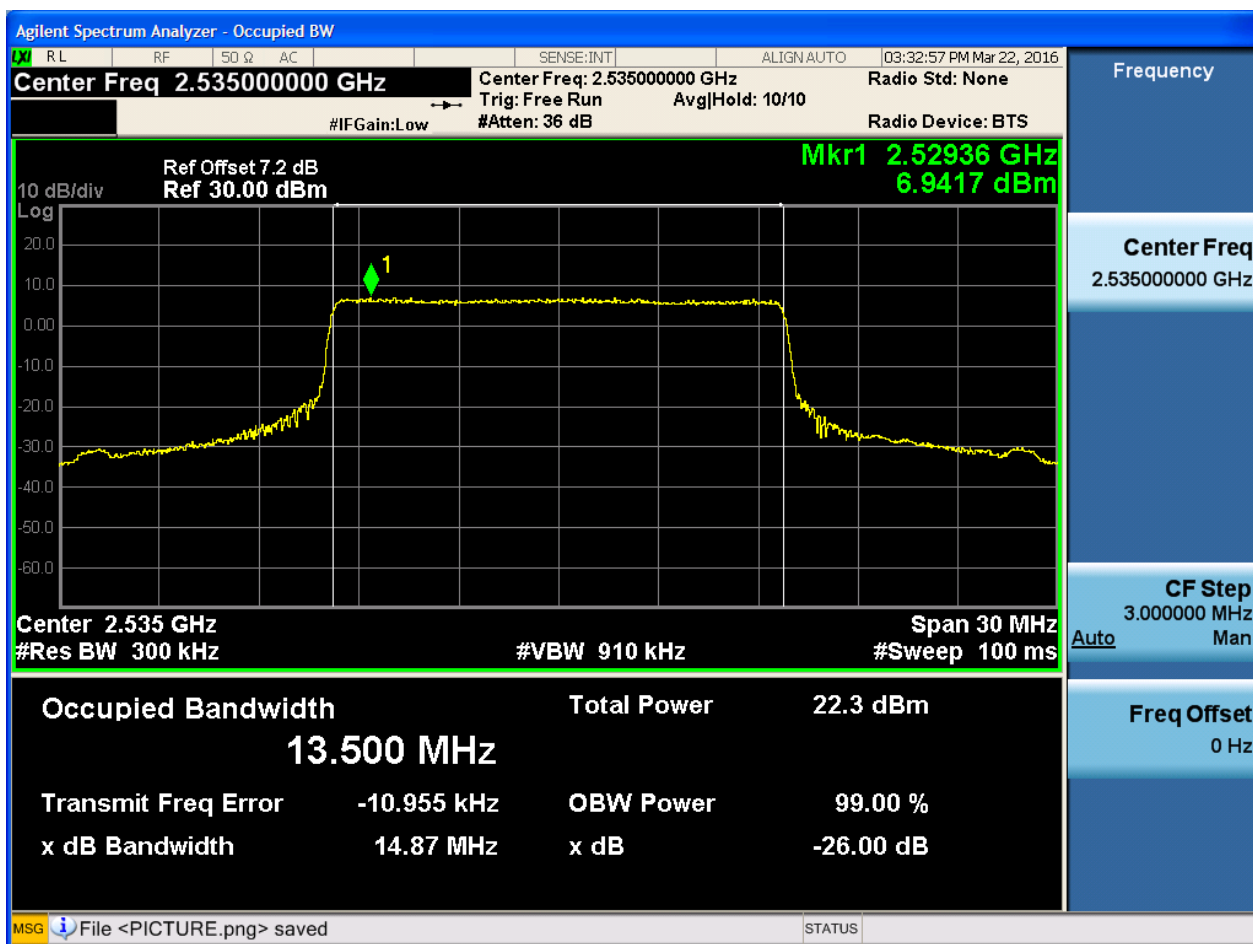
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

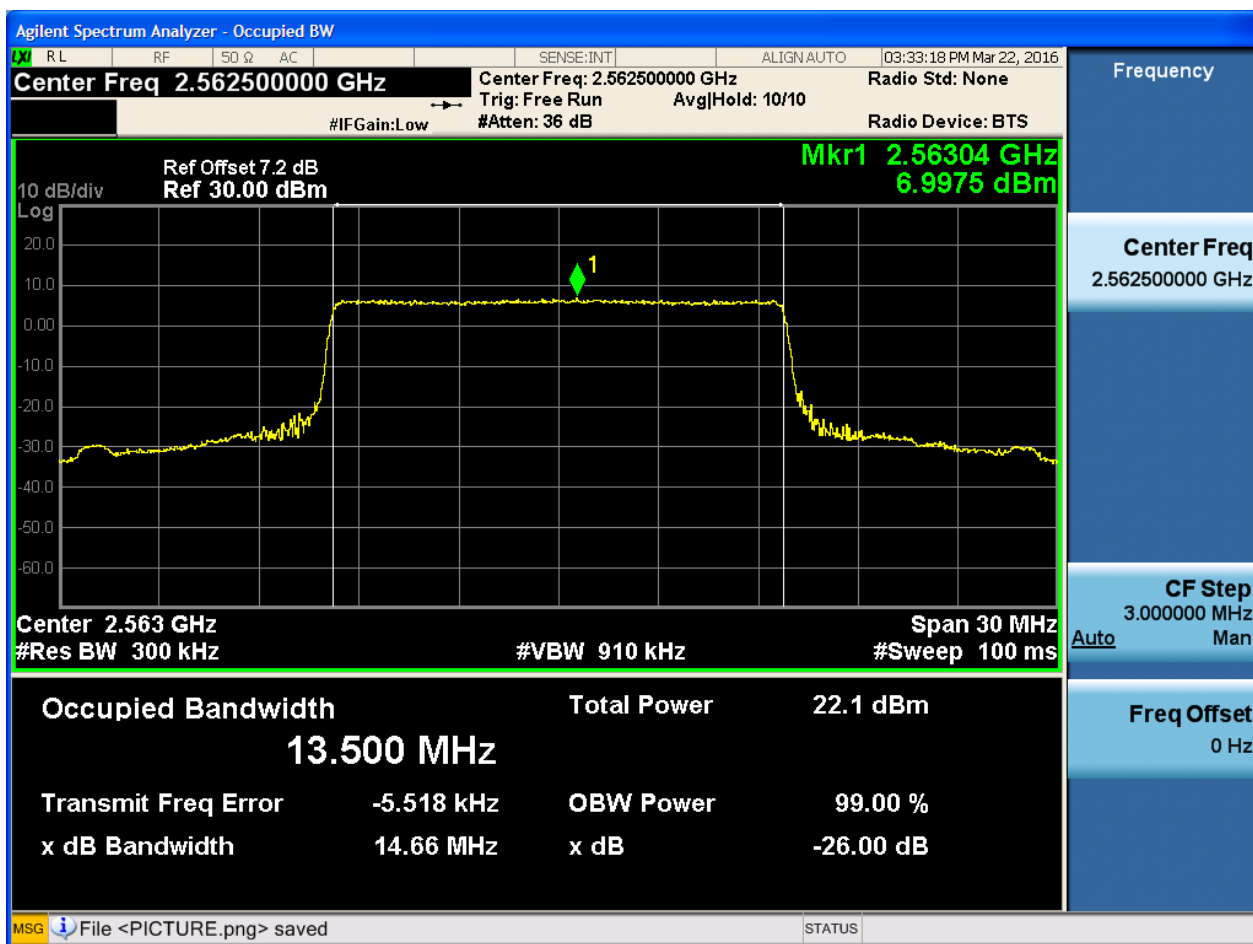
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

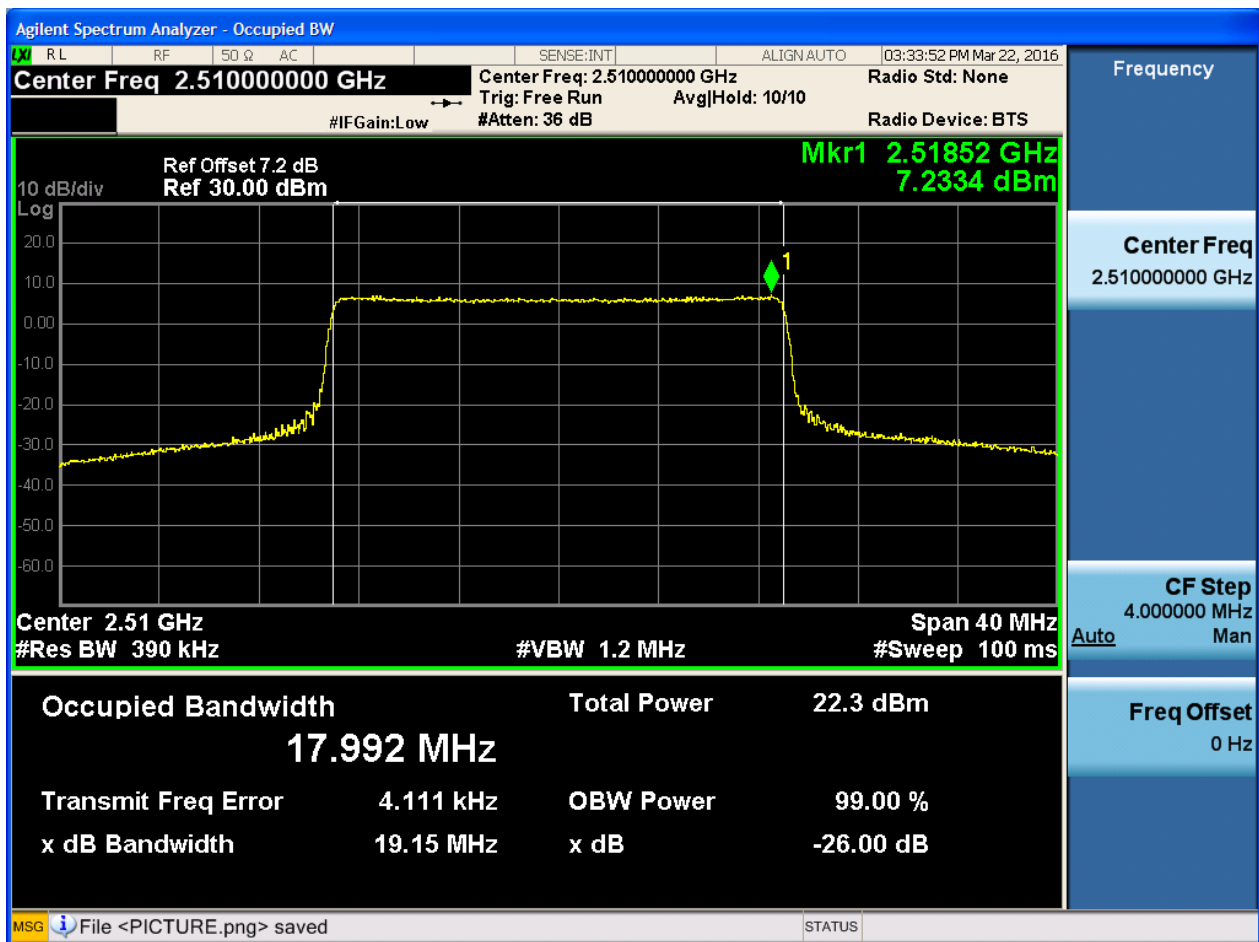




4.1.1.2.4 Test Bandwidth = 20

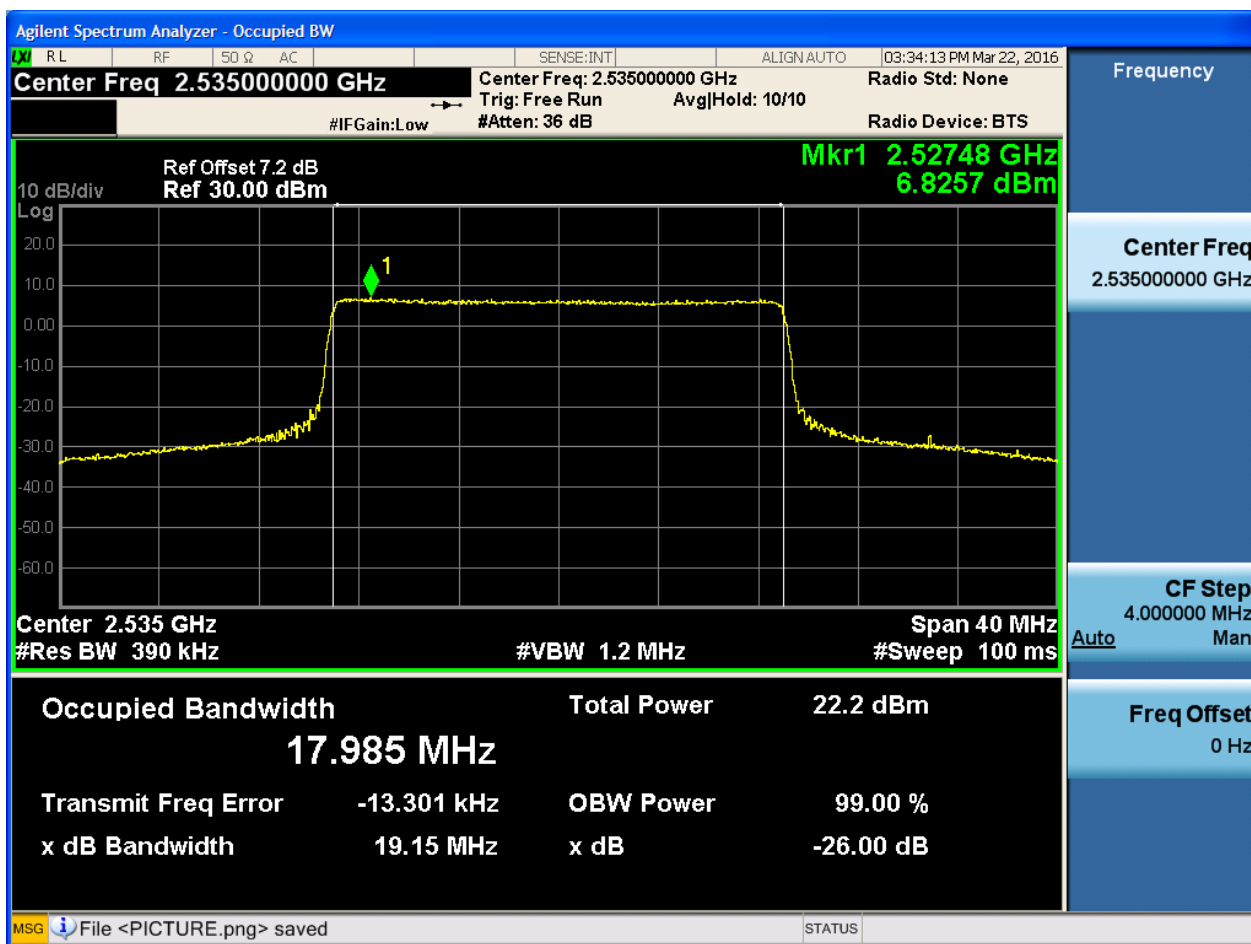
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



4.1.1.2.4.2 Test Channel = MCH

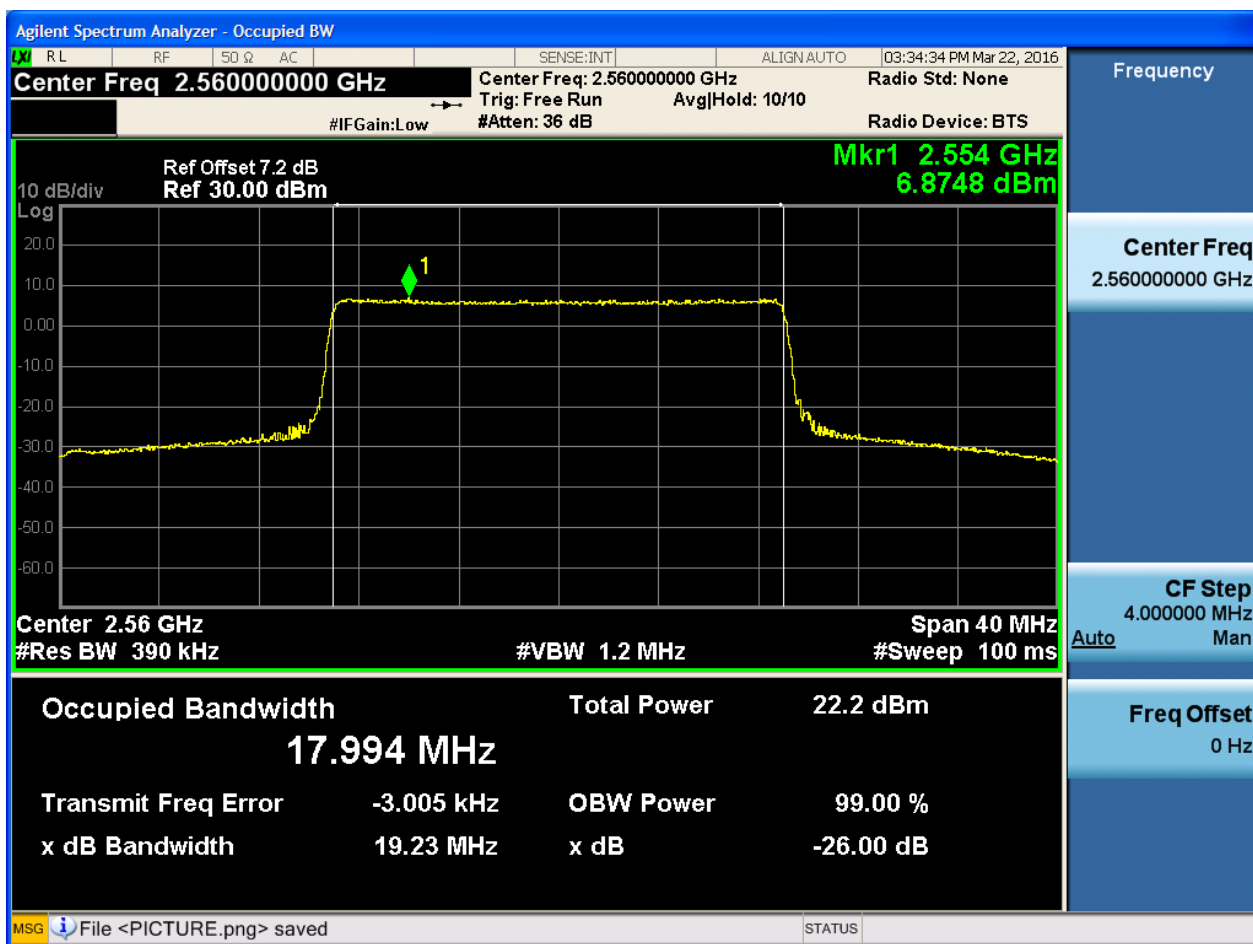
4.1.1.2.4.2.1 Test RB = RB100#0





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

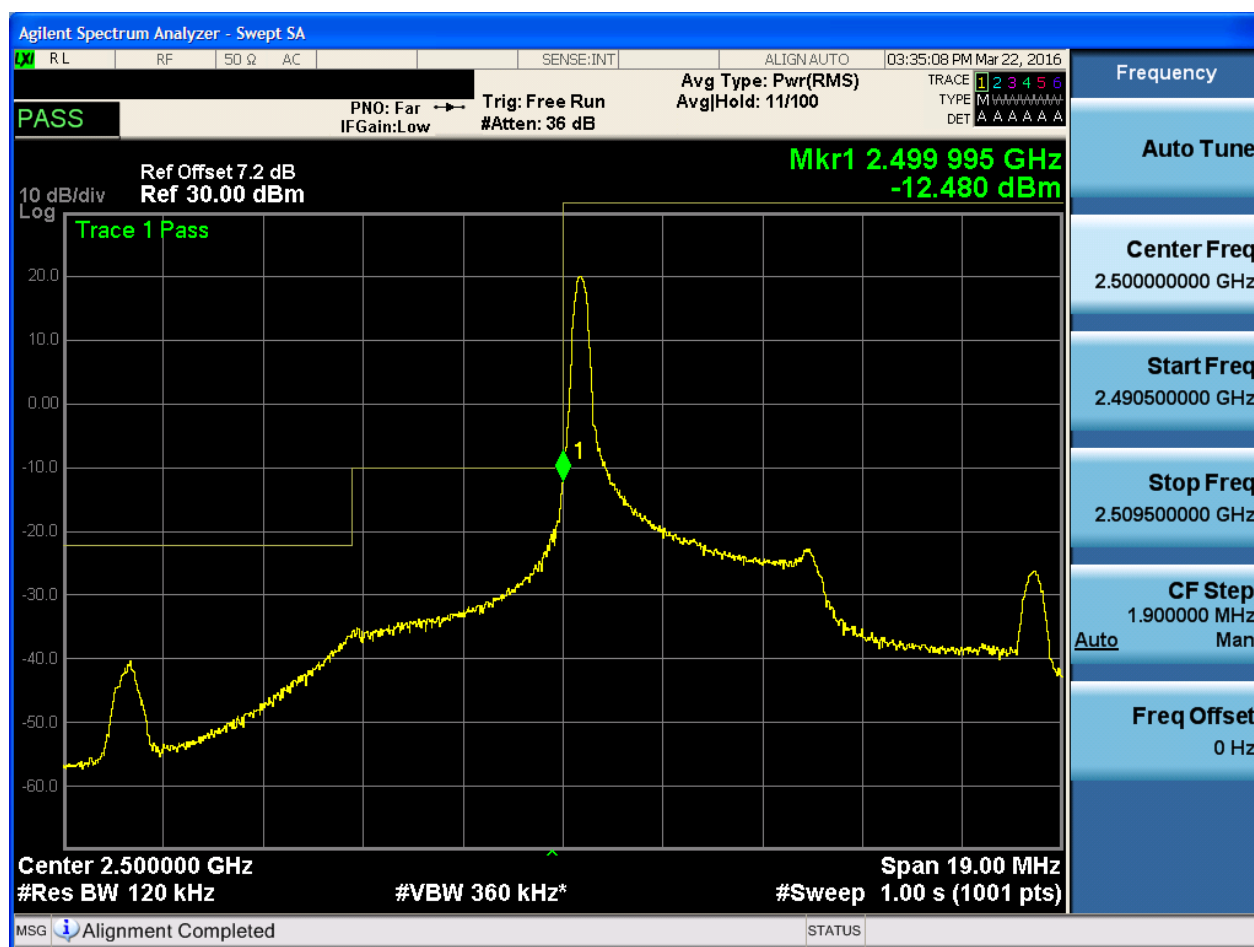
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

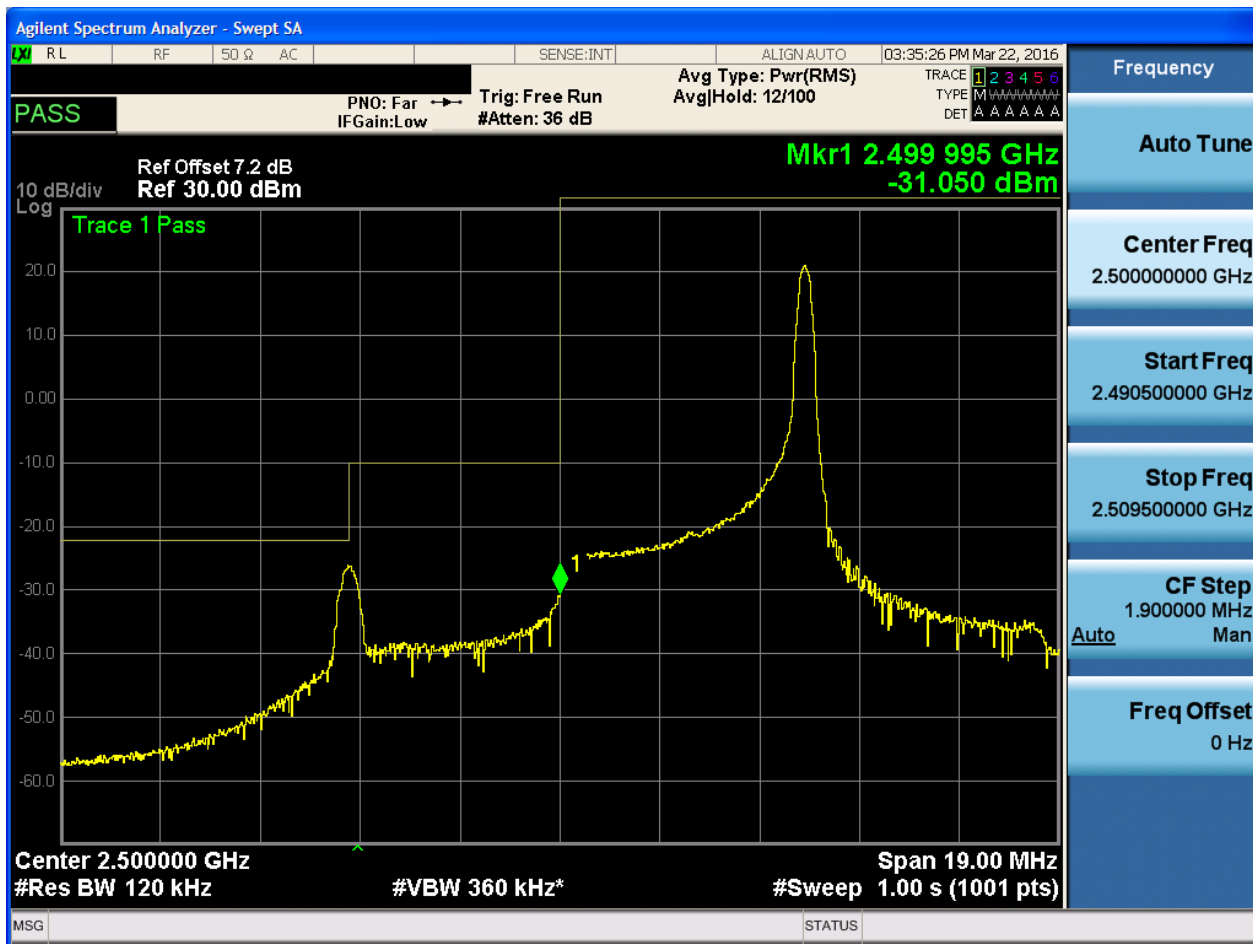
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



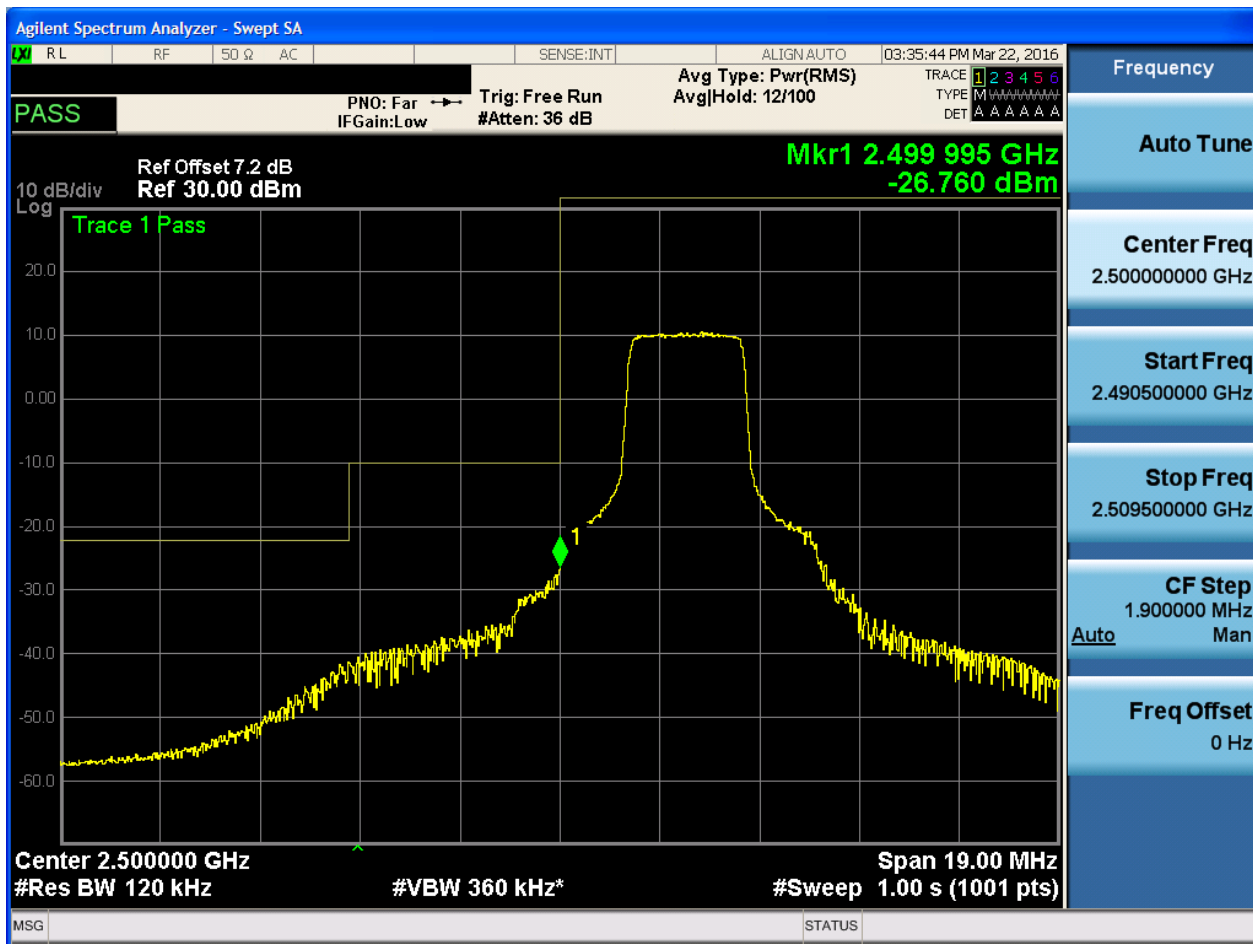


5.1.1.1.1.2 Test RB = RB1#24



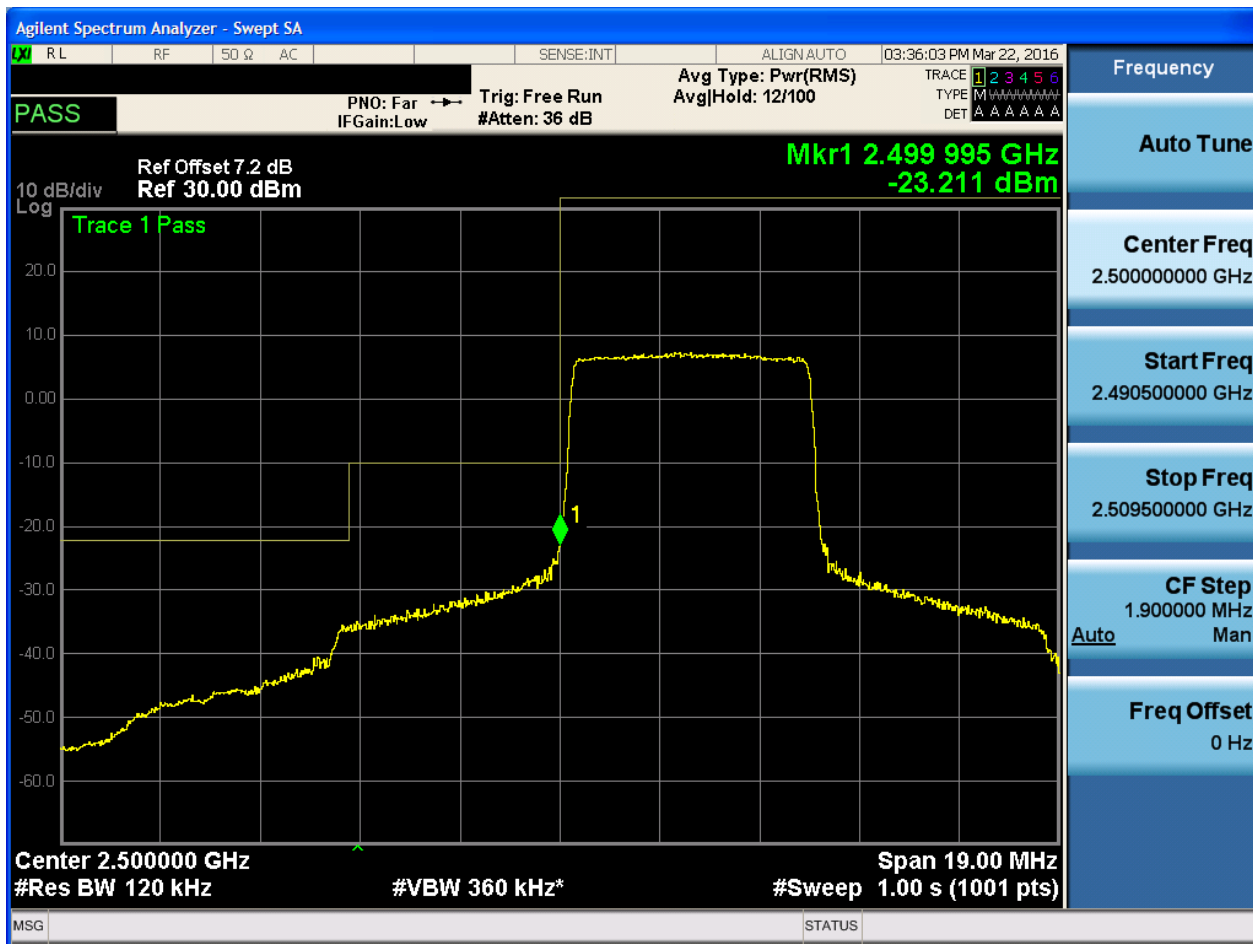


5.1.1.1.1.3 Test RB = RB12#6



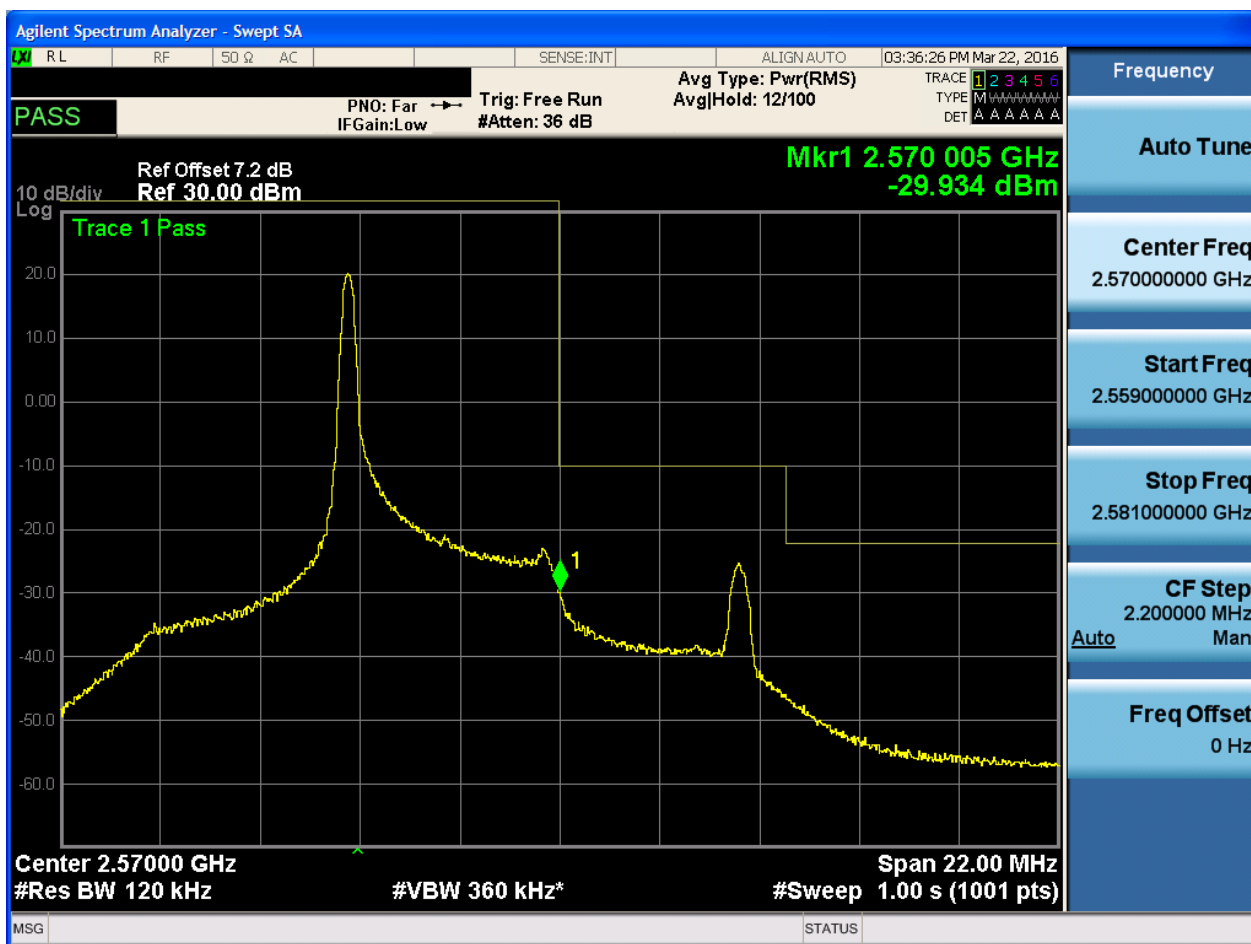


5.1.1.1.1.4 Test RB = RB25#0



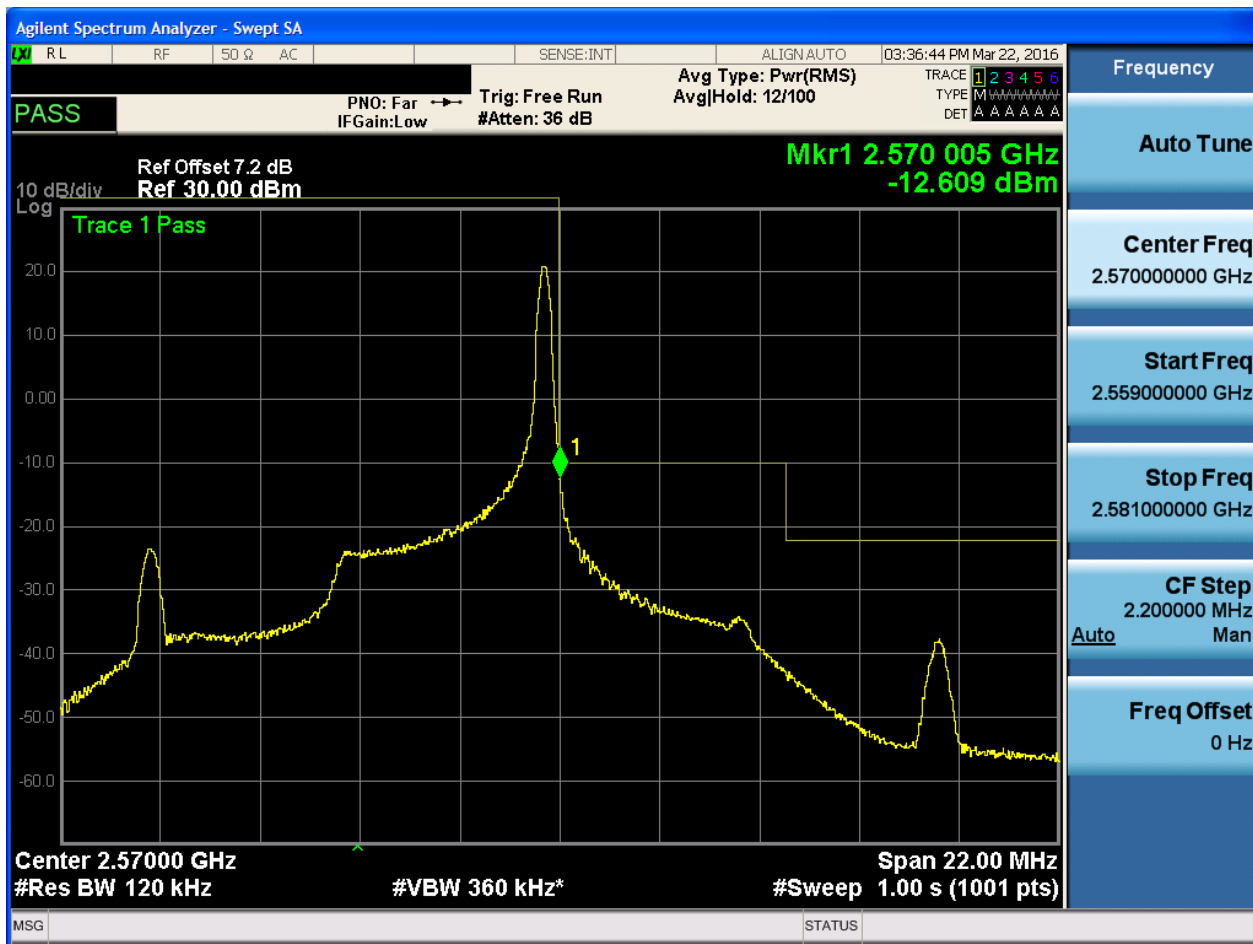
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



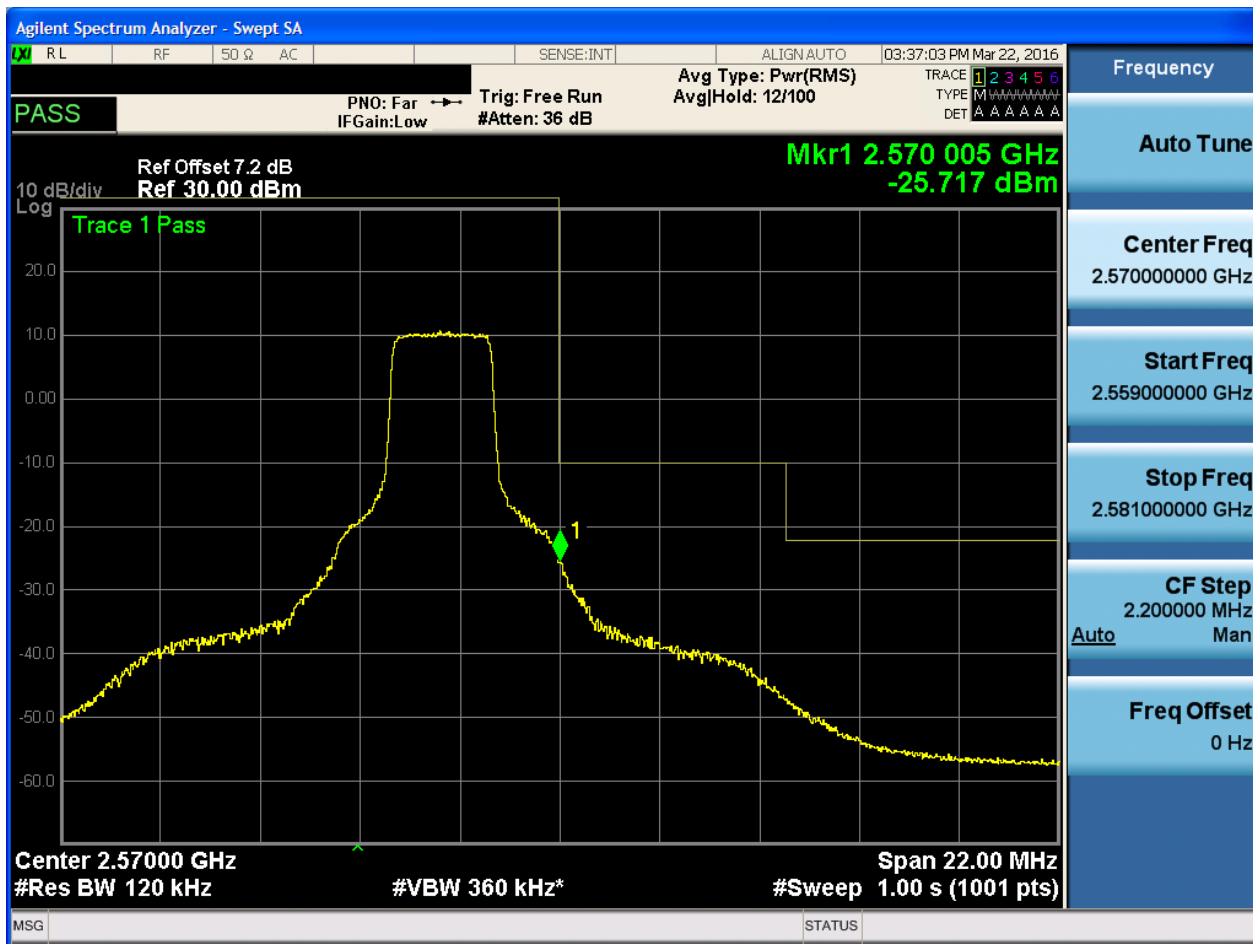


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

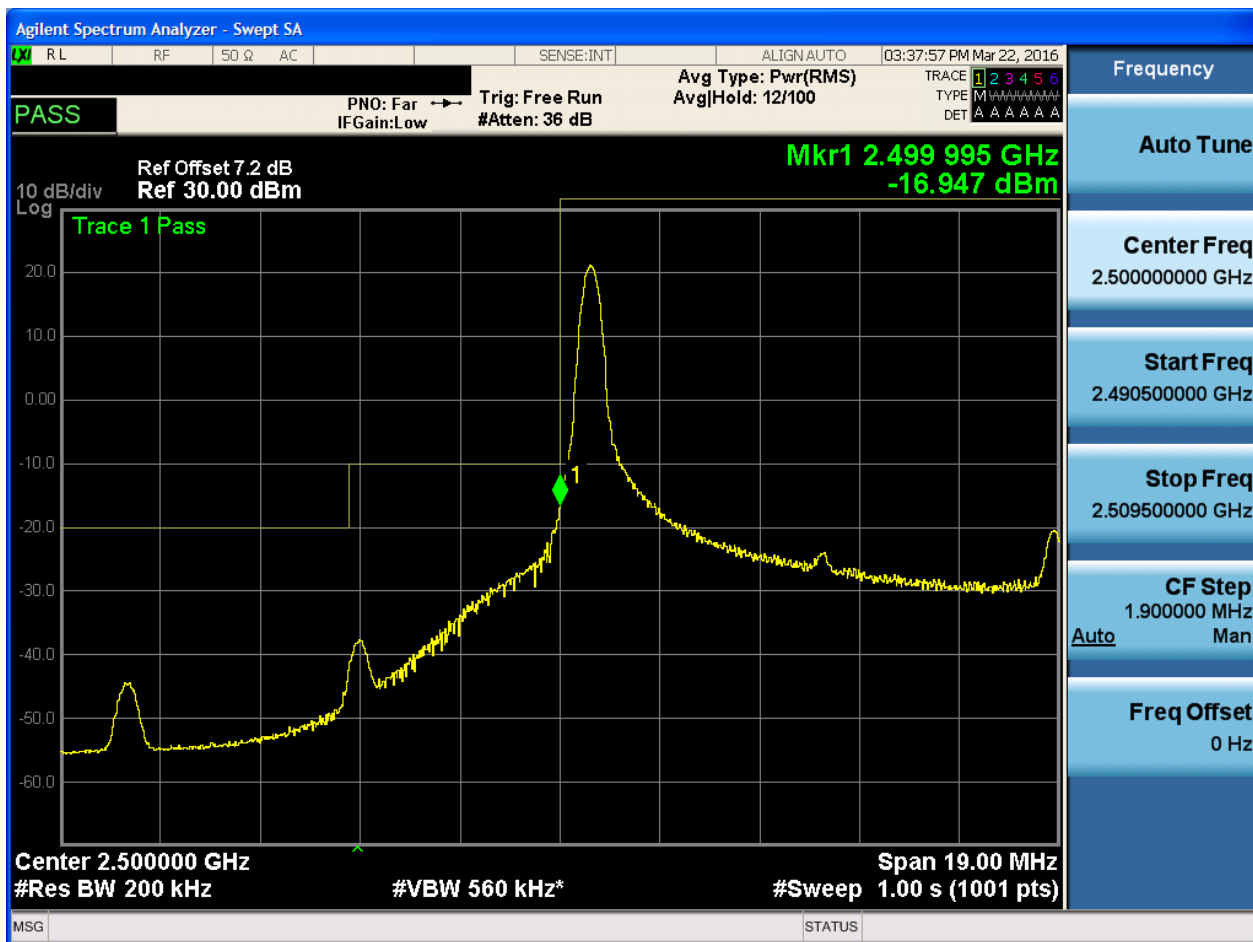




5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0

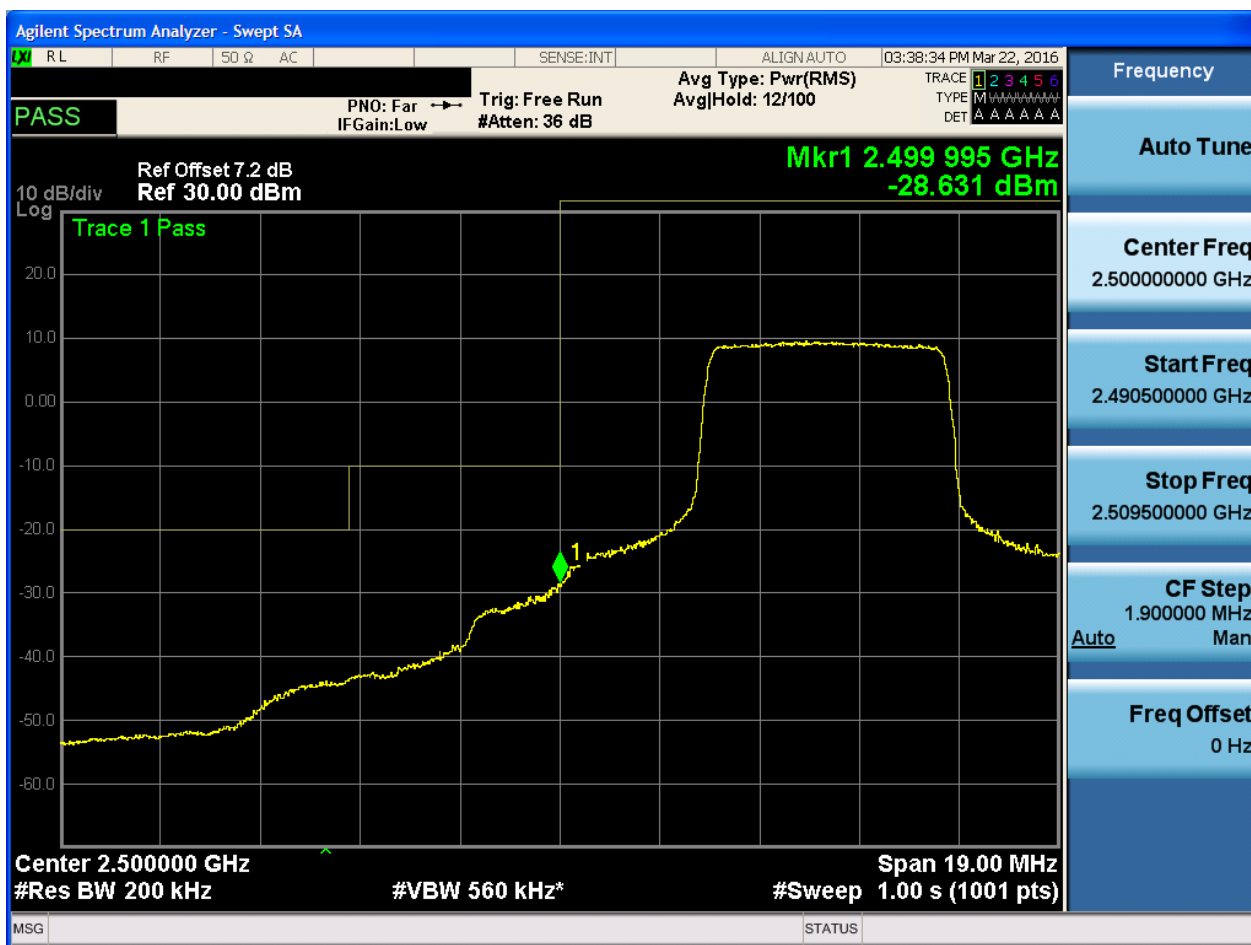




5.1.1.1.2.1.2 Test RB = RB1#49

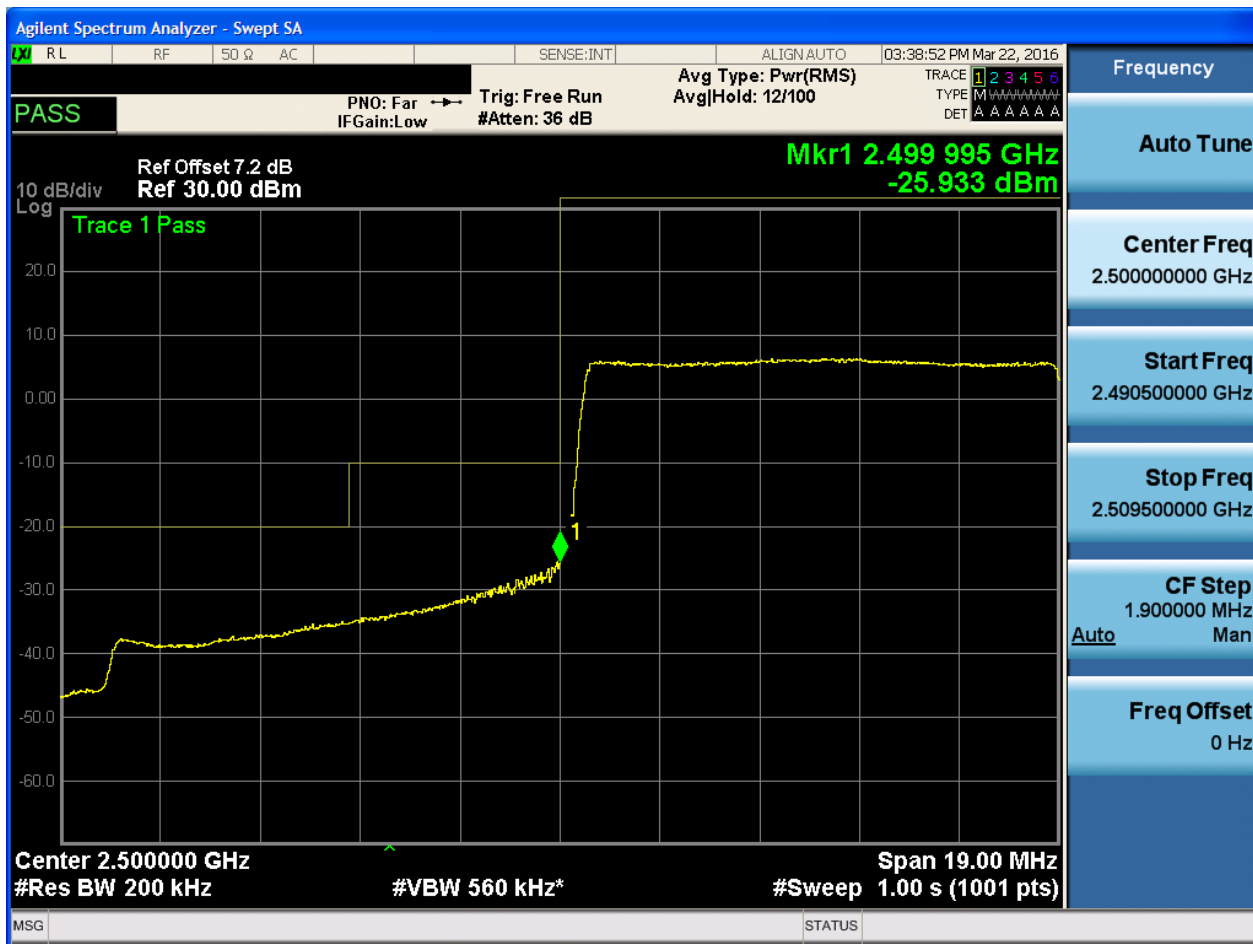


5.1.1.1.2.1.3 Test RB = RB25#13



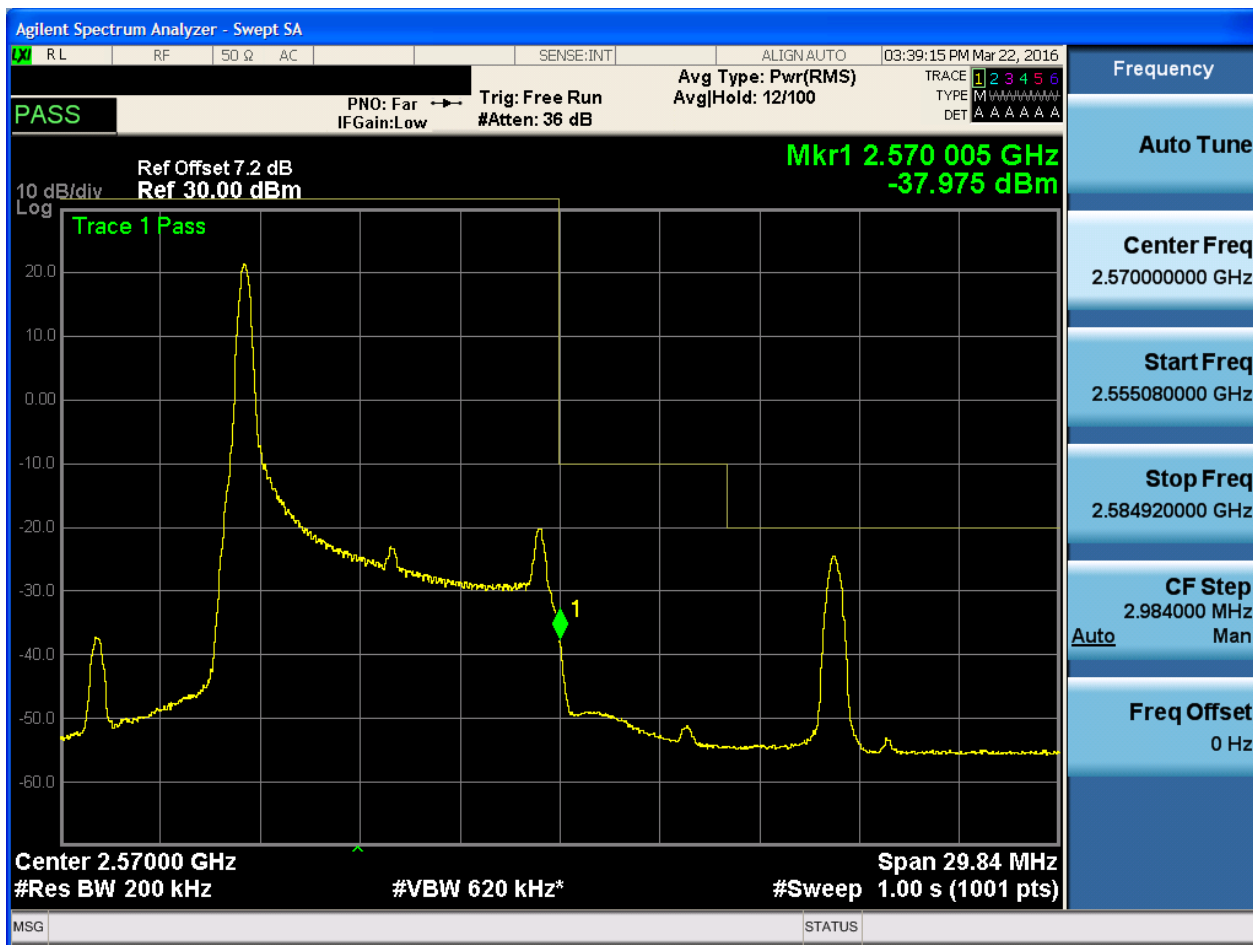


5.1.1.1.2.1.4 Test RB = RB50#0



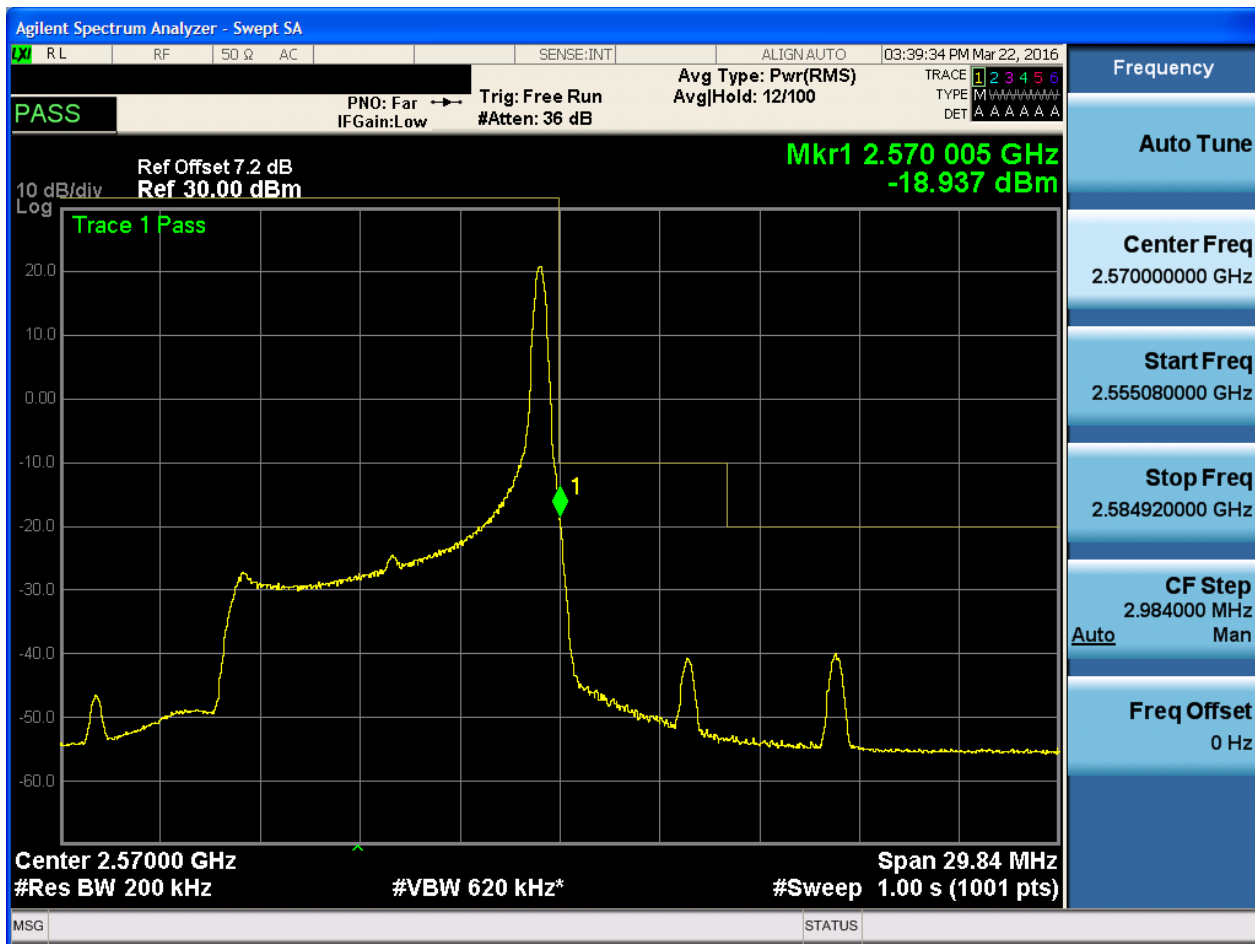
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:39:52 PM Mar 22, 2016

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

Ref Offset 7.2 dB Mkr1 2.570 005 GHz
Ref 30.00 dBm -29.232 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 29.84 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.555080000 GHz

Stop Freq
2.584920000 GHz

CF Step
2.984000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.1.1.2.2.4 Test RB = RB50#0

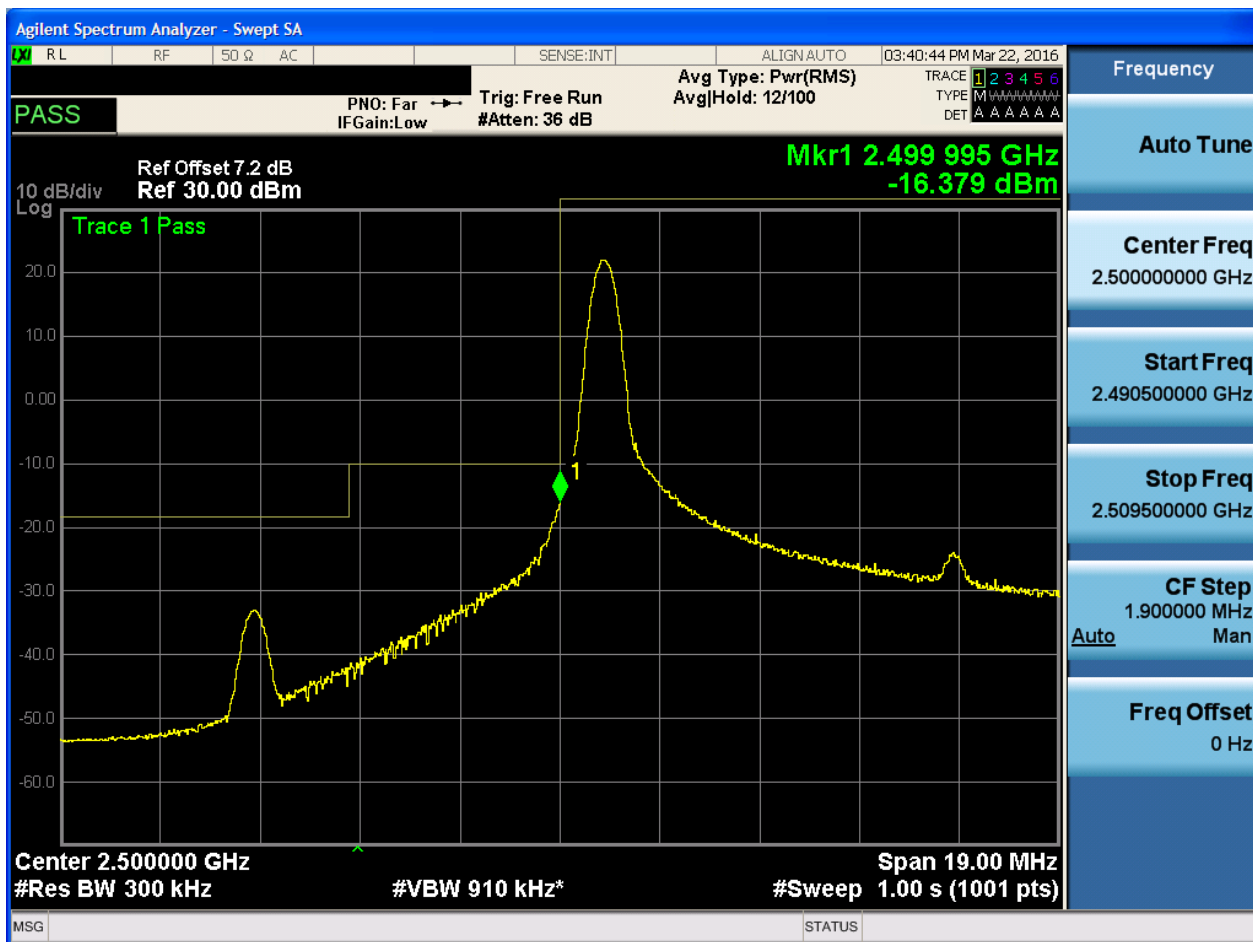




5.1.1.1.3 Test Bandwidth = 15

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0



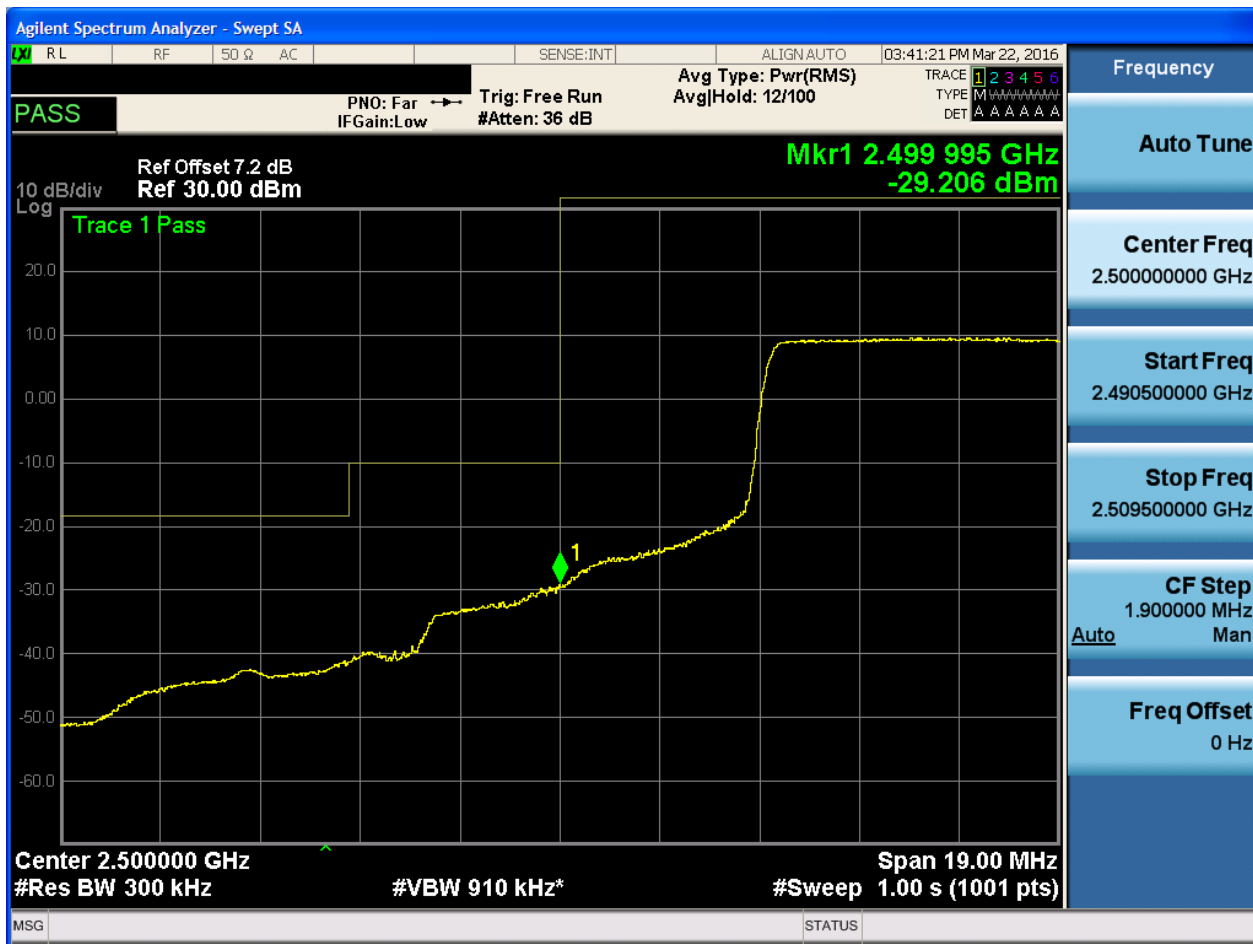


5.1.1.1.3.1.2 Test RB = RB1#74





5.1.1.1.3.1.3 Test RB = RB36#18



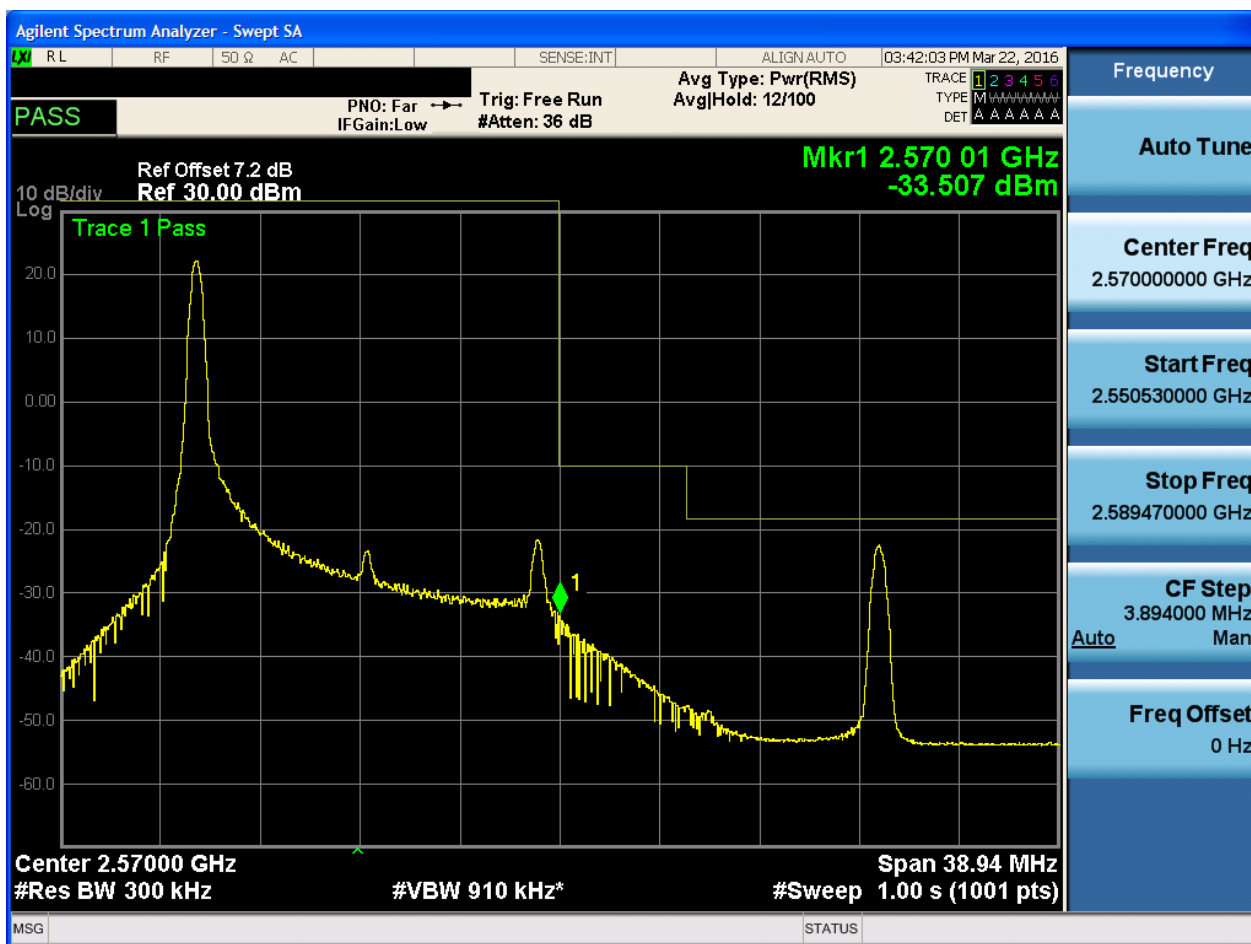


5.1.1.1.3.1.4 Test RB = RB75#0



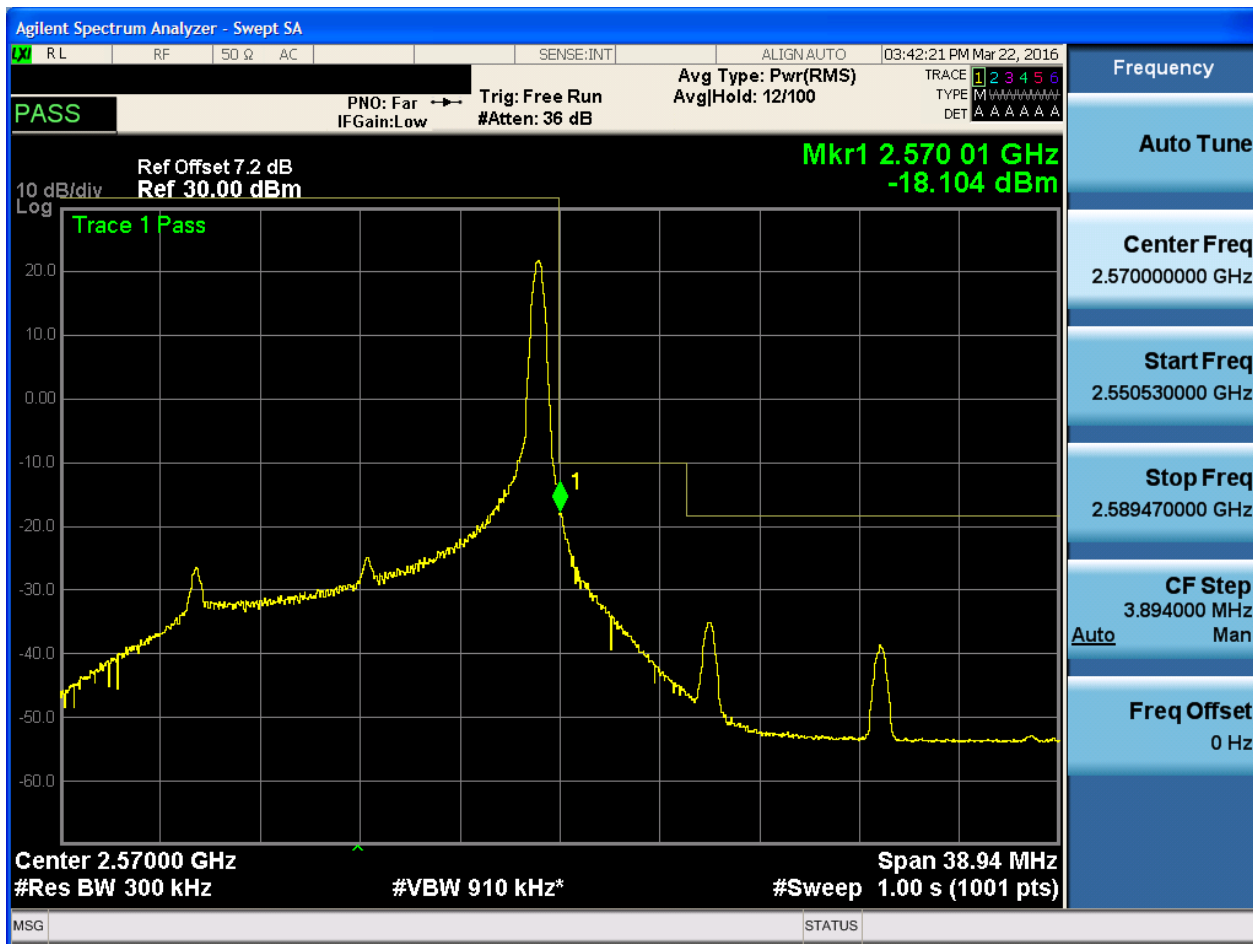
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0



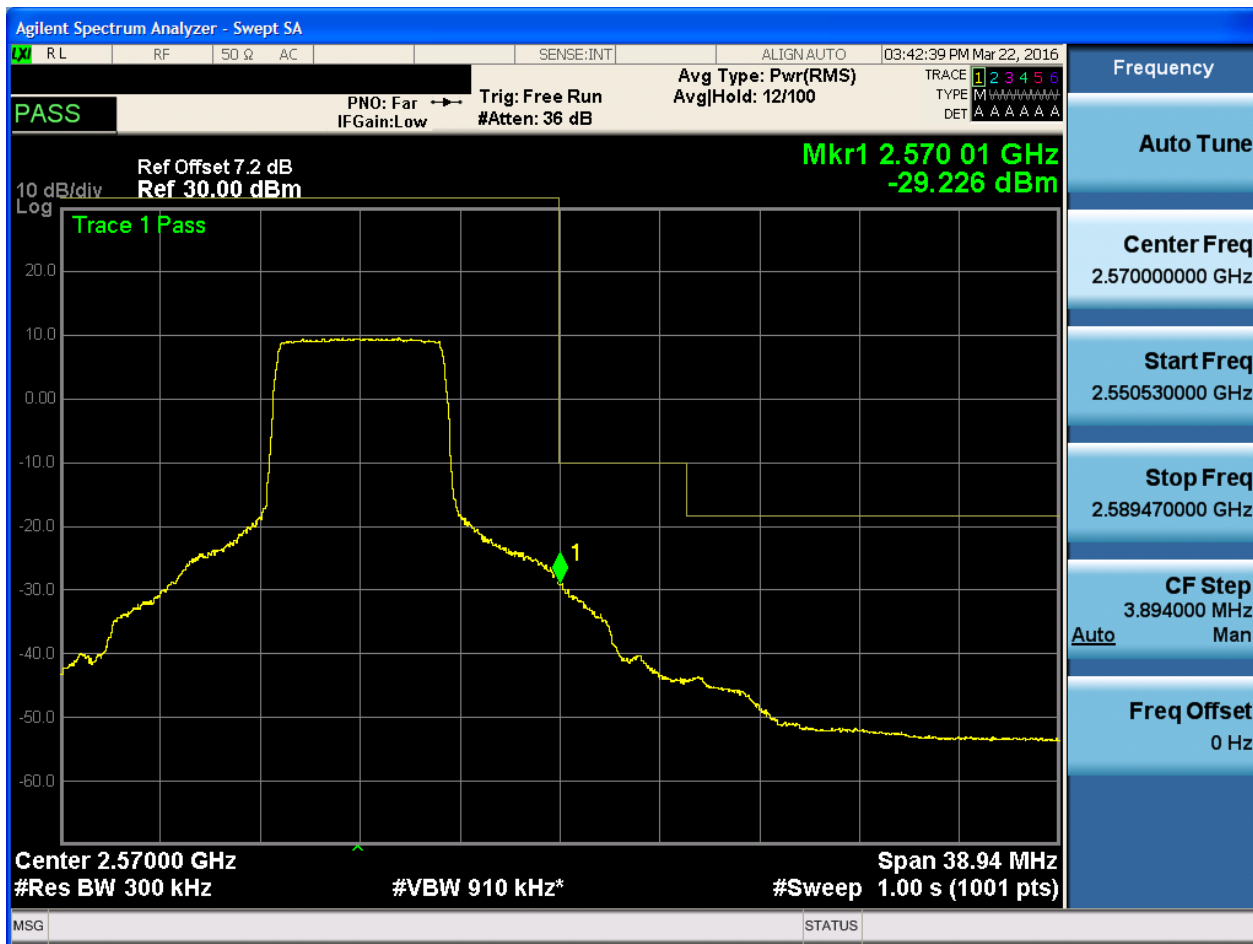


5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





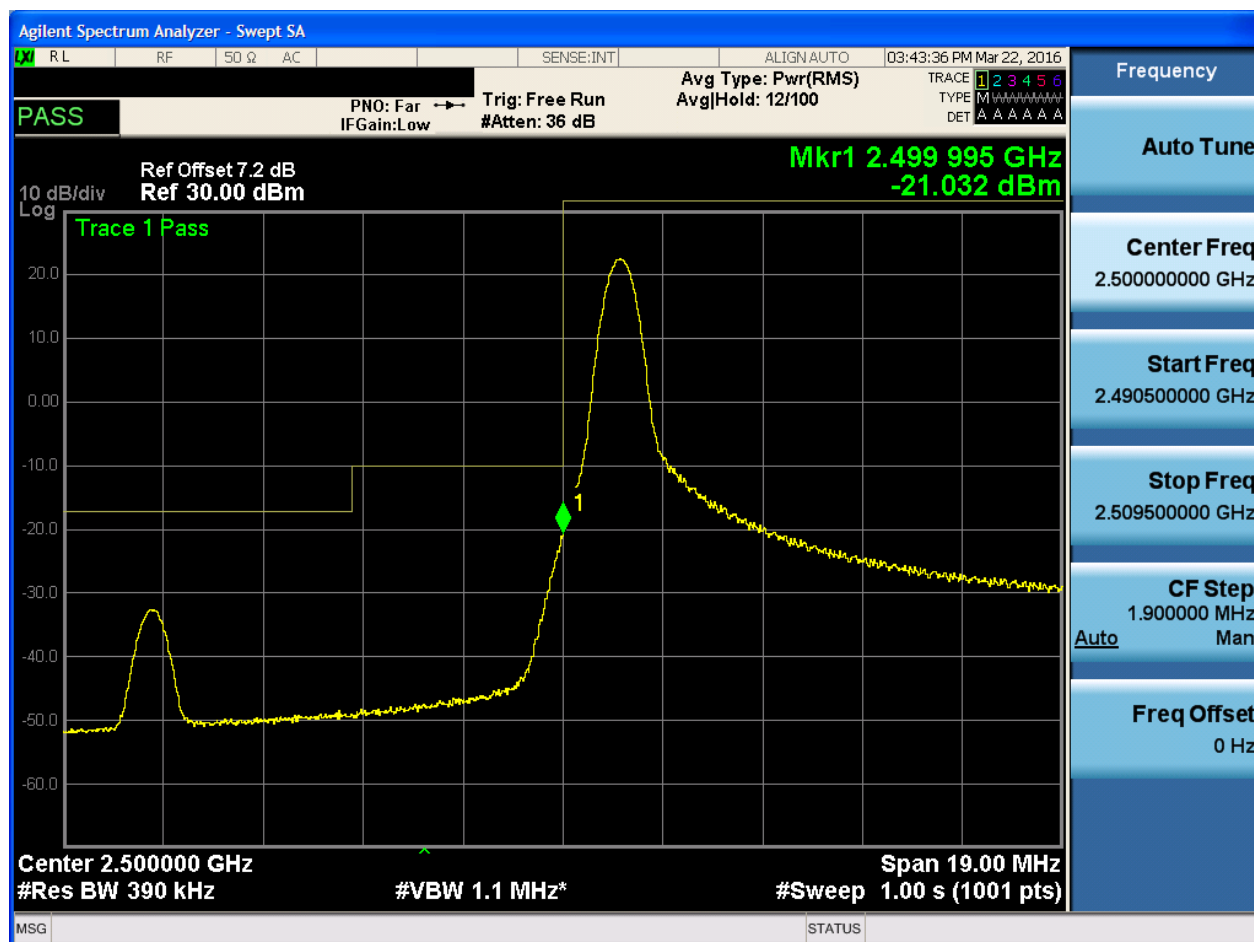
5.1.1.1.3.2.4 Test RB = RB75#0



5.1.1.1.4 Test Bandwidth = 20

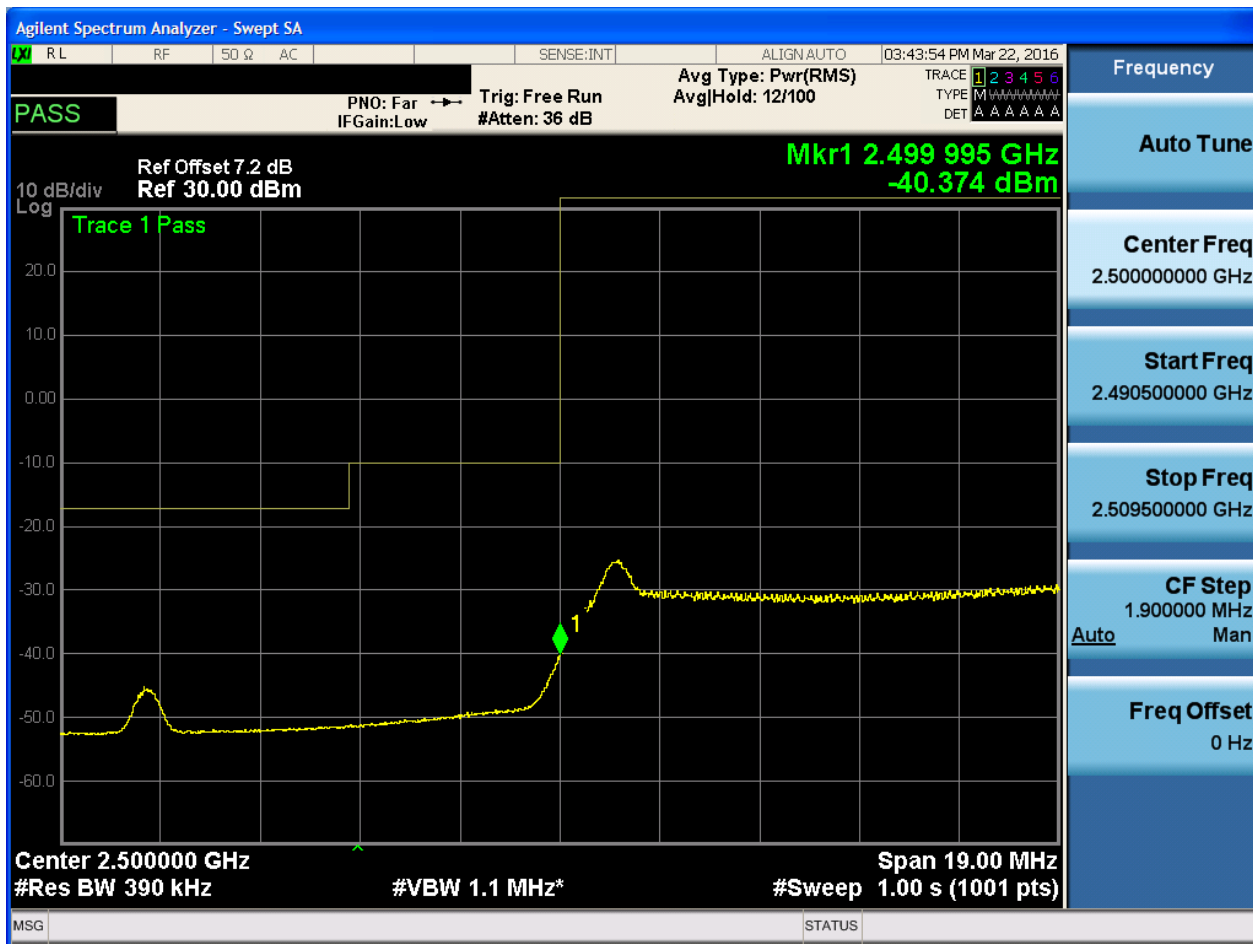
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0



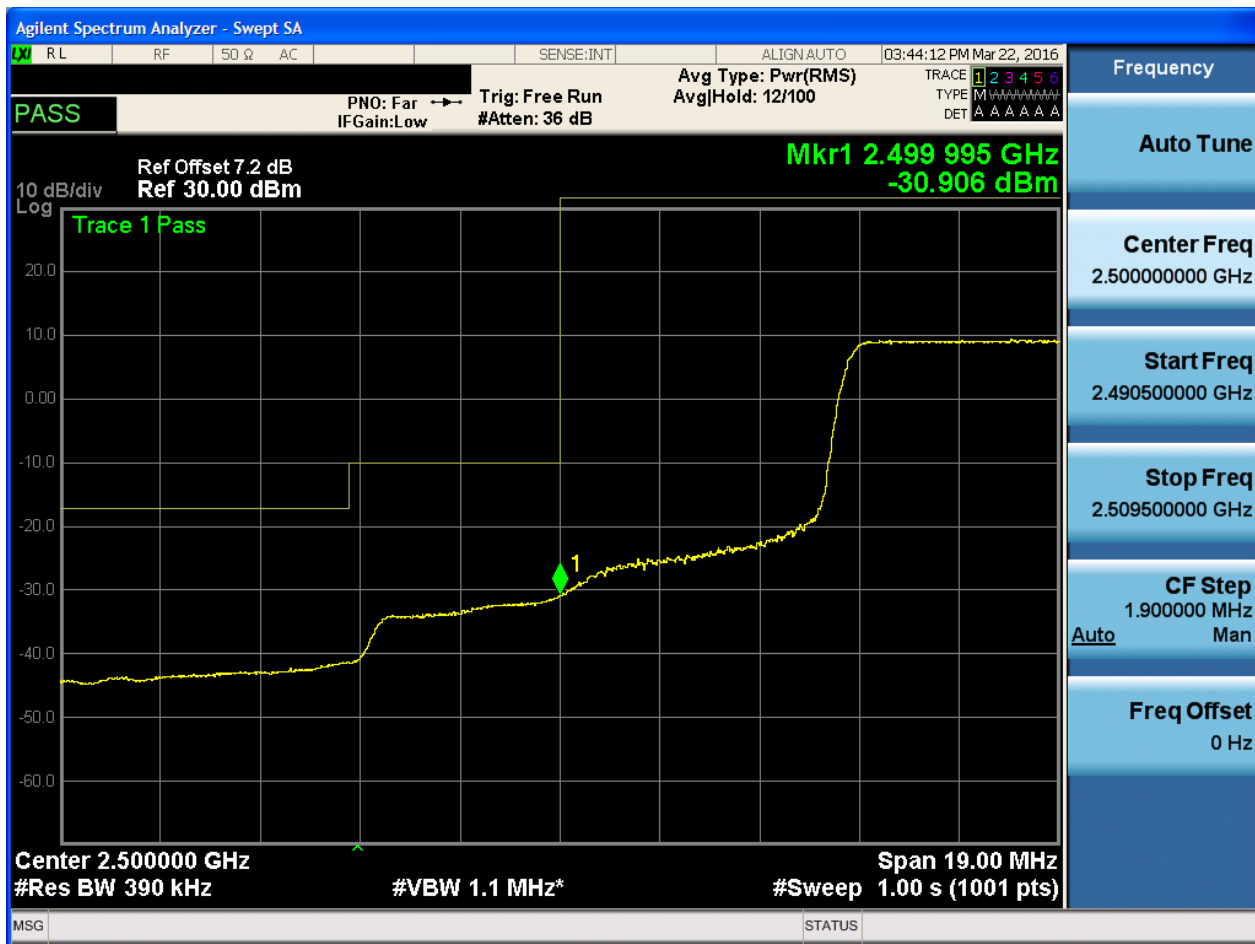


5.1.1.1.4.1.2 Test RB = RB1#99



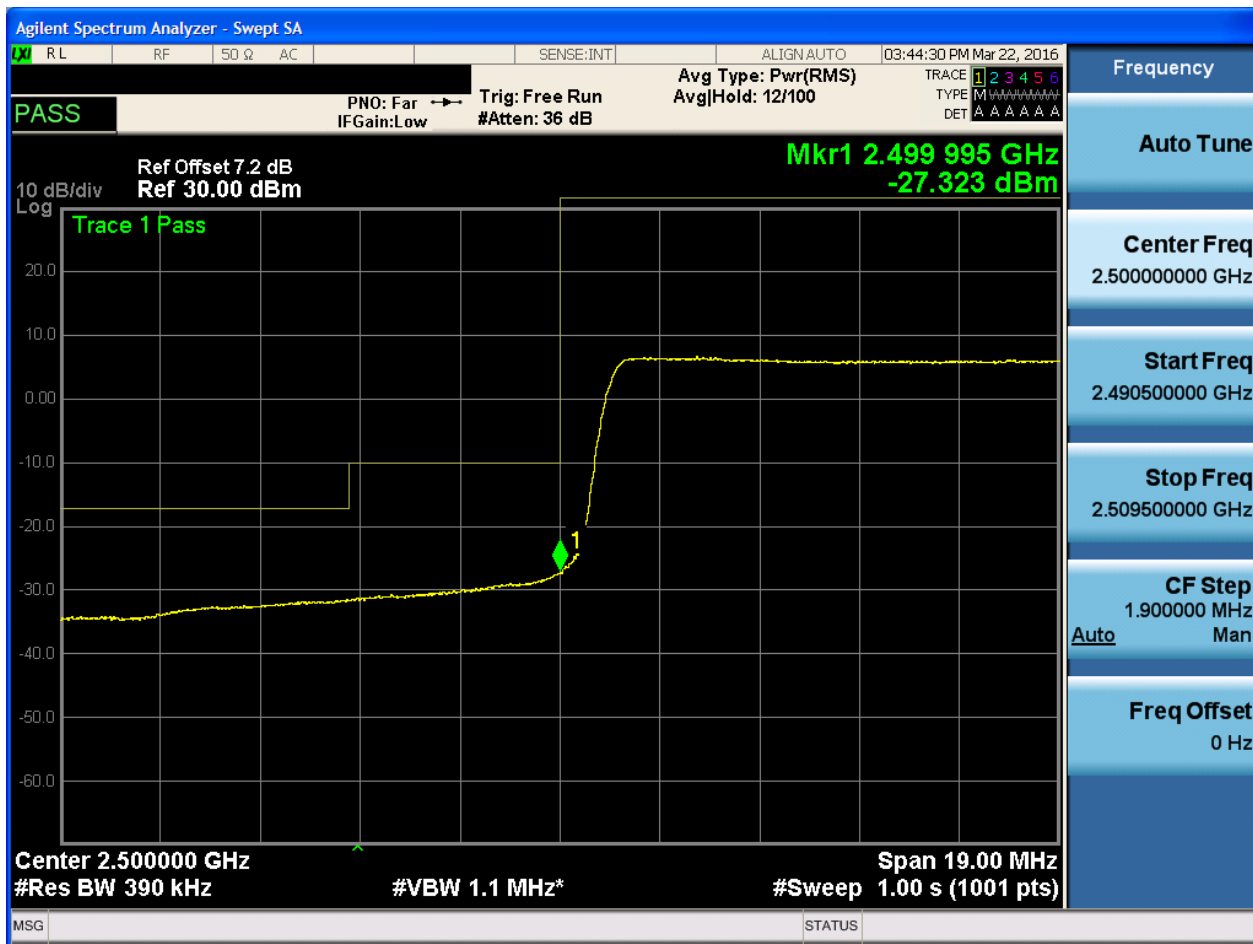


5.1.1.1.4.1.3 Test RB = RB50#25



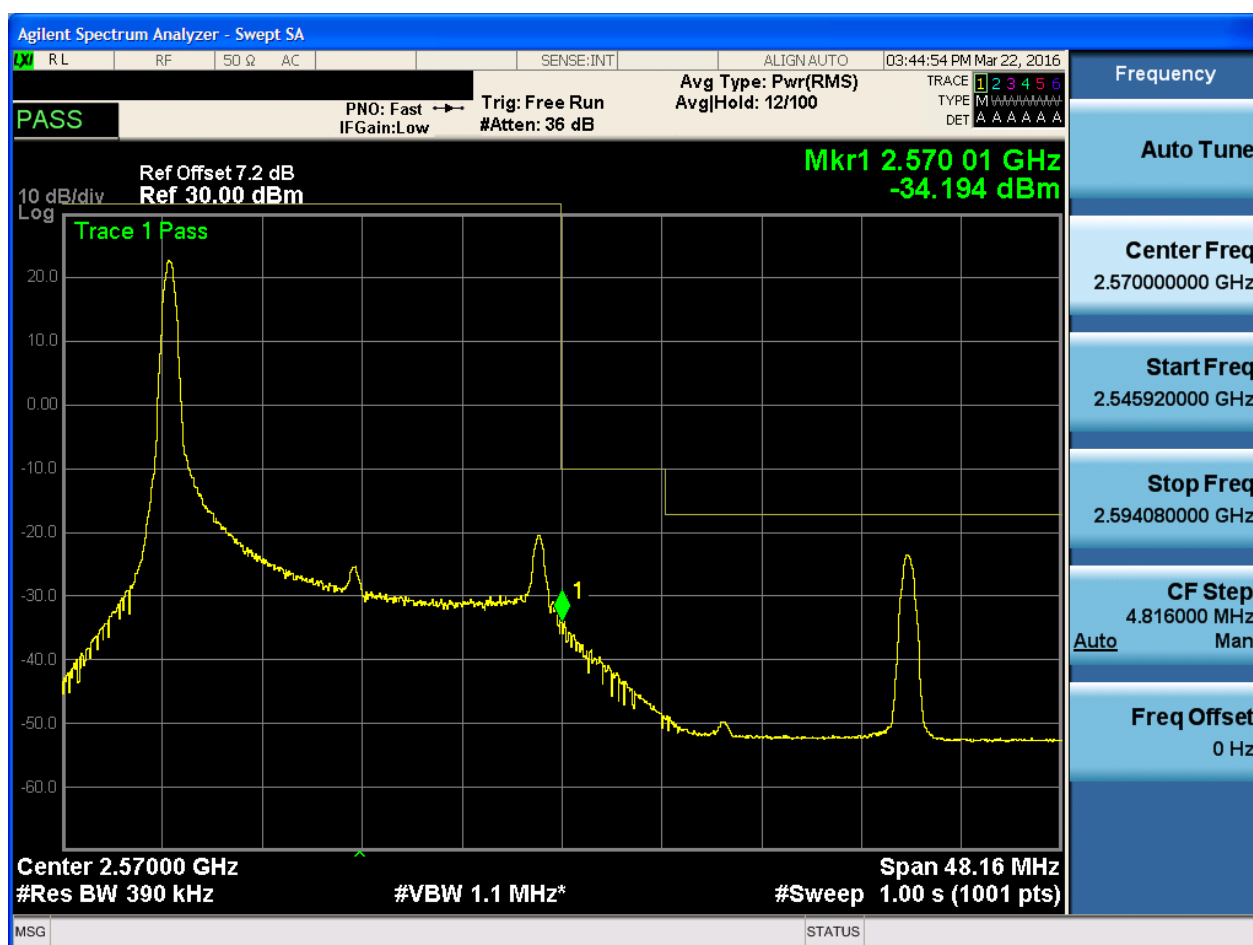


5.1.1.1.4.1.4 Test RB = RB100#0



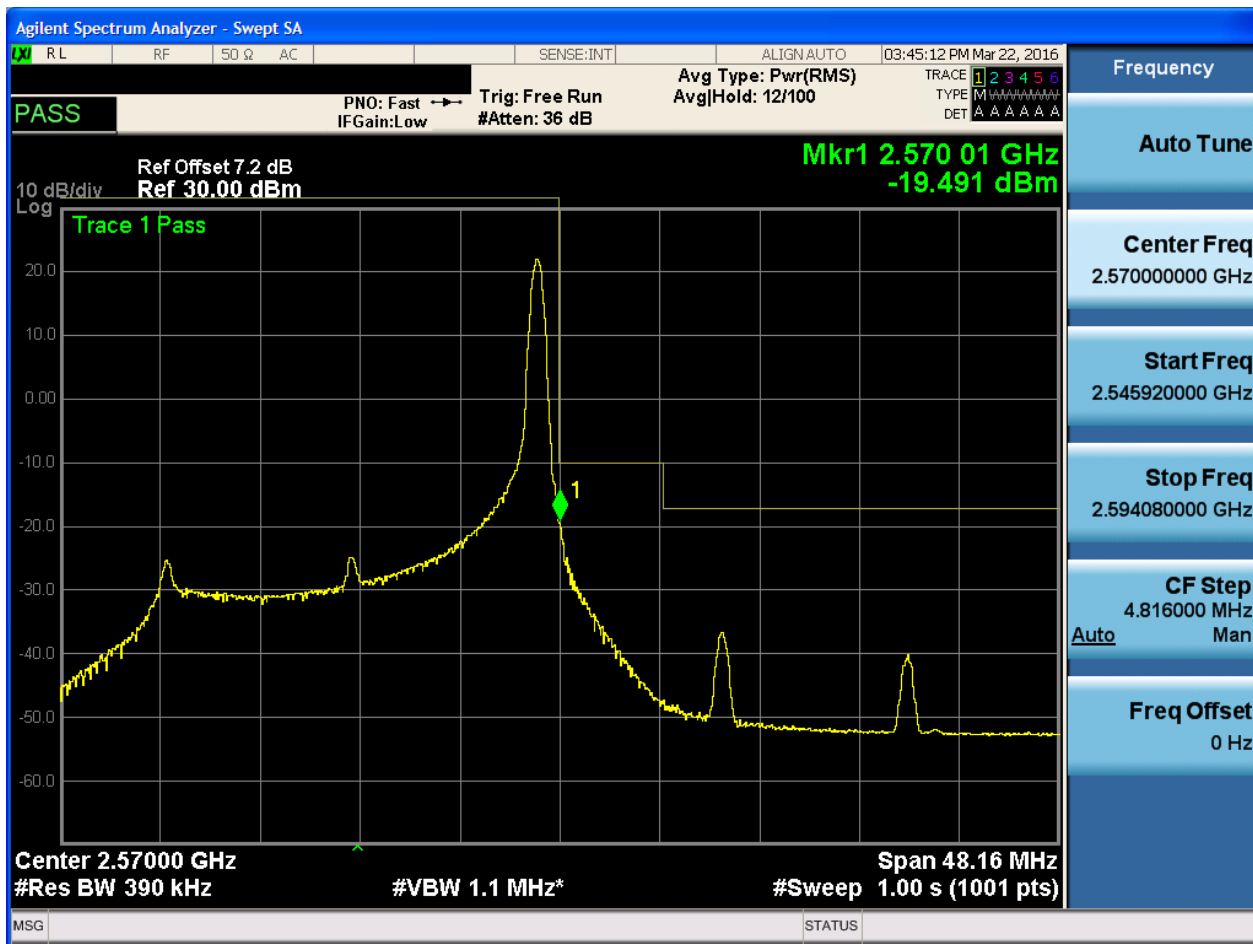
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



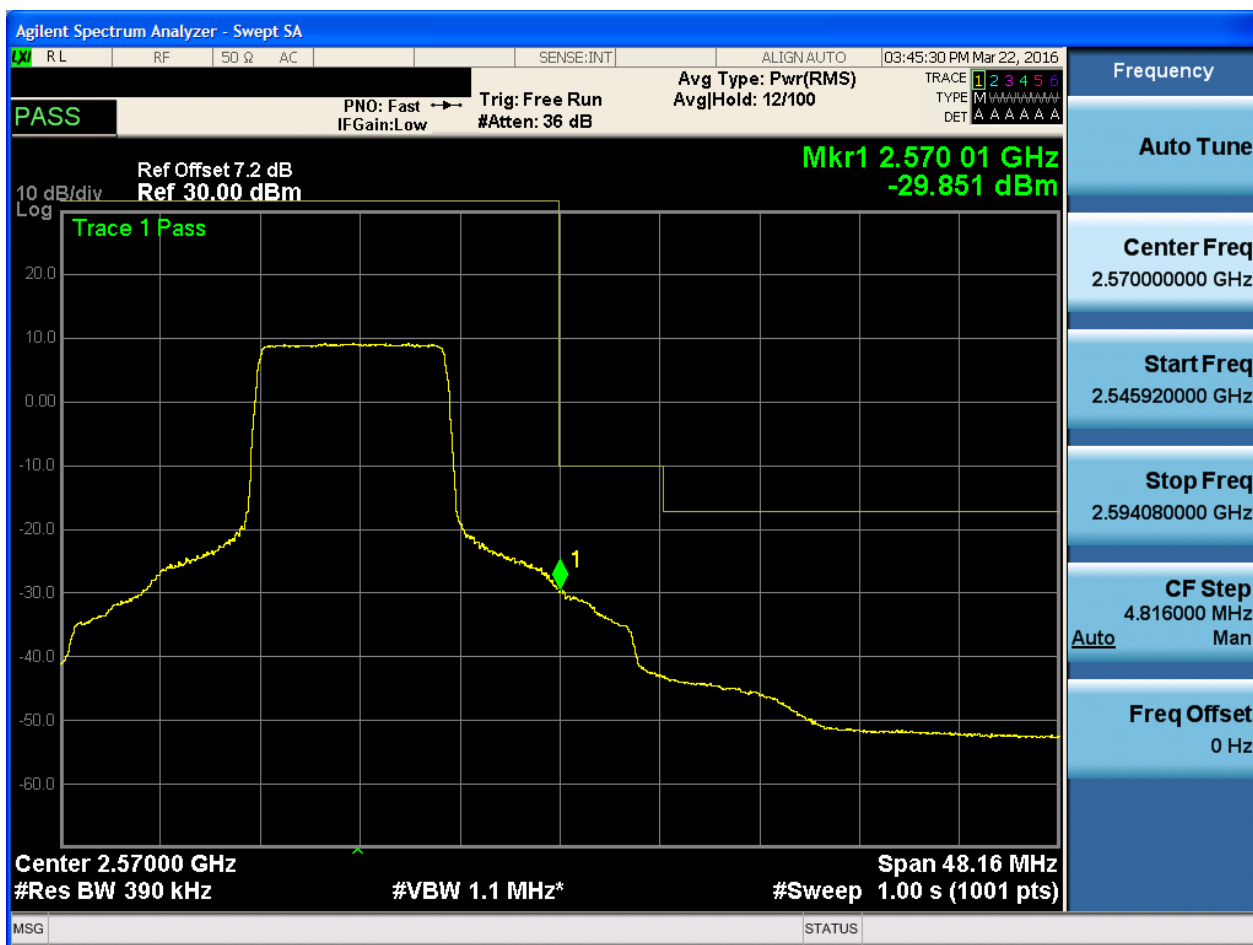


5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



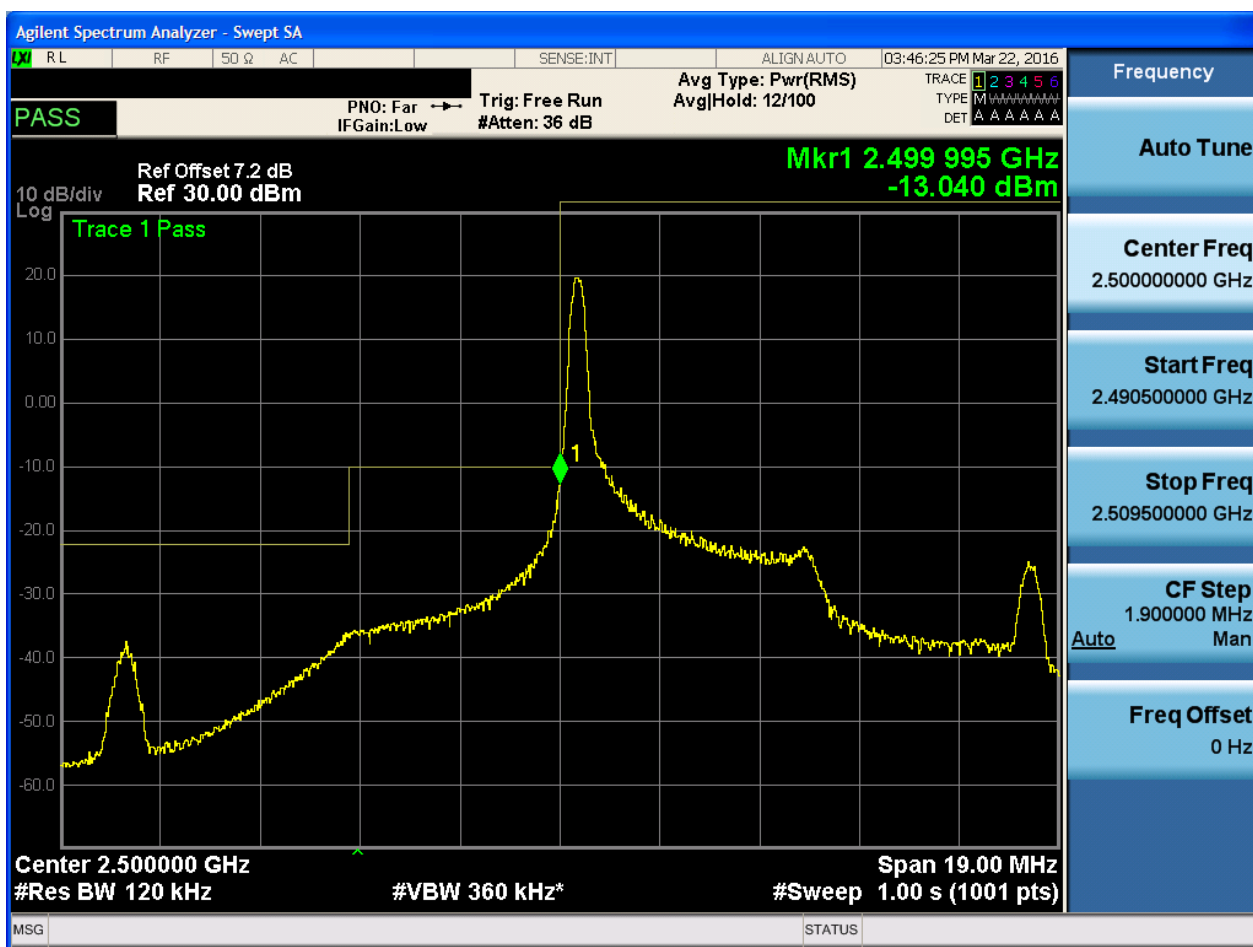


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

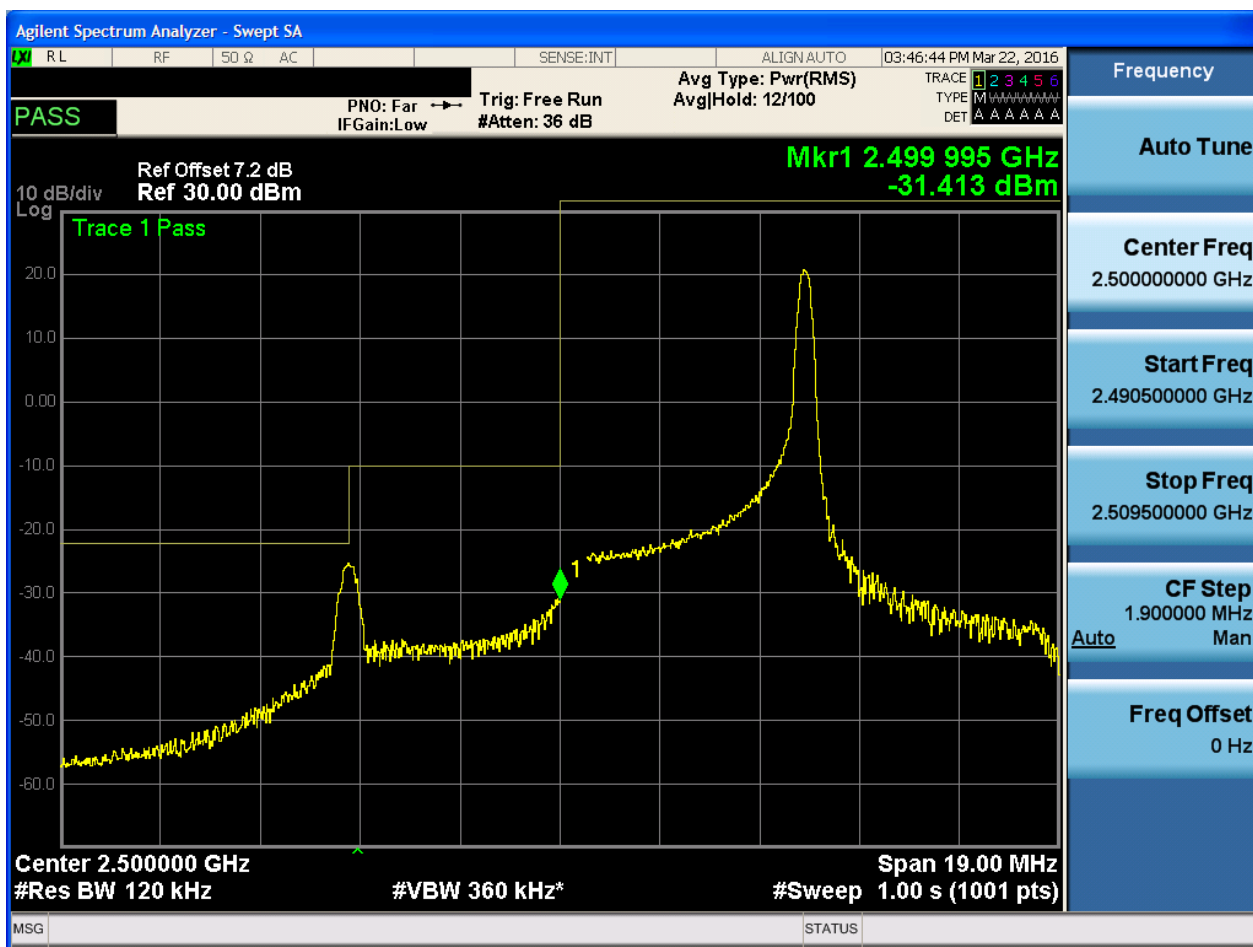
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



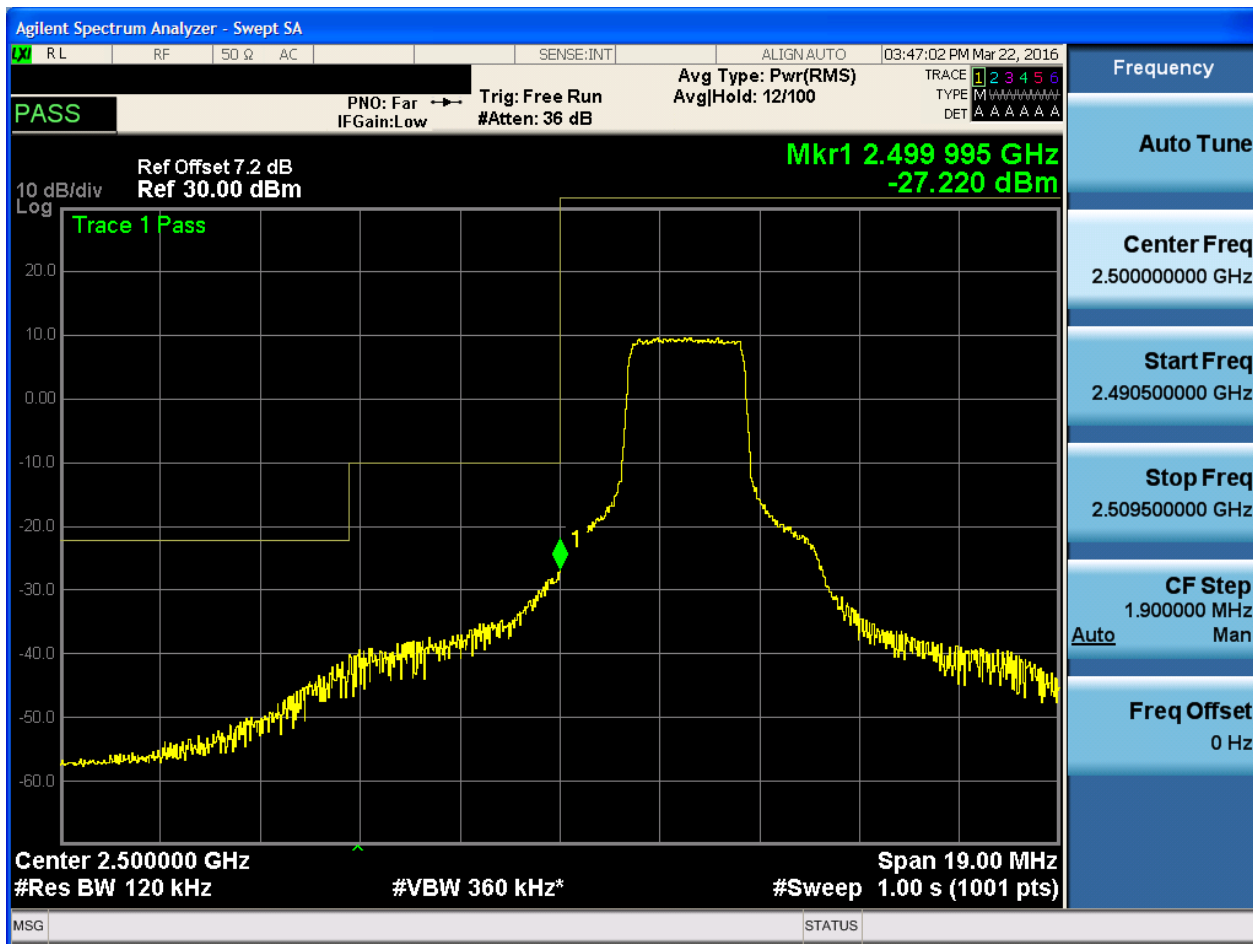


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN:AUTO 03:47:20 PM Mar 22, 2016

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

Ref Offset 7.2 dB Mkr1 2.499 995 GHz
 Ref 30.00 dBm -23.399 dBm

10 dB/div Log

Trace 1 Pass

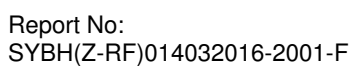
Center 2.500000 GHz Span 19.00 MHz
 #Res BW 120 kHz #VBW 360 kHz* #Sweep 1.00 s (1001 pts)

Frequency
 Auto Tune
 Center Freq 2.50000000 GHz
 Start Freq 2.490500000 GHz
 Stop Freq 2.509500000 GHz
 CF Step 1.900000 MHz
 Man
 Freq Offset 0 Hz

MSG STATUS



5.1.1.2.1.2.1 Test RB = RB1#0



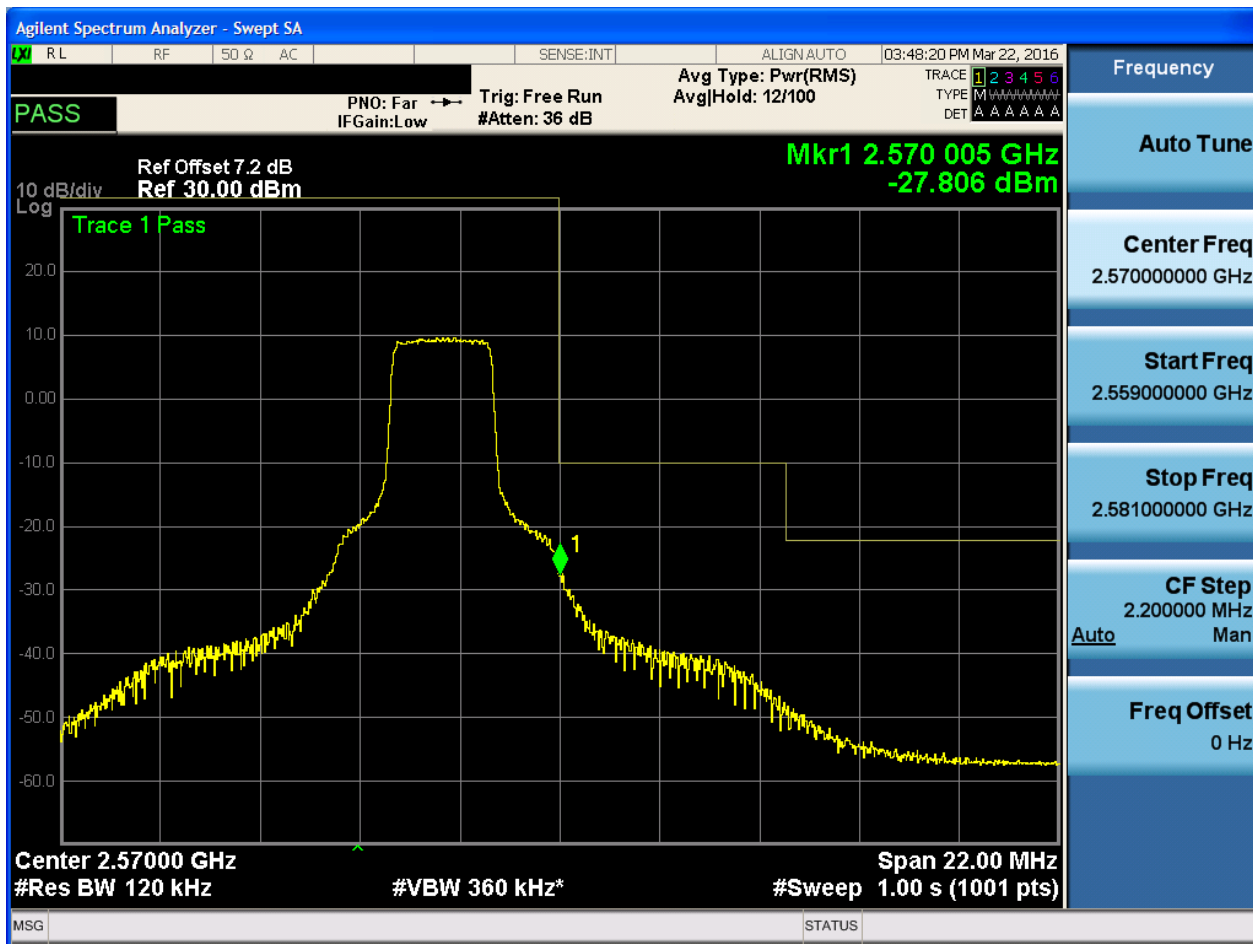


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

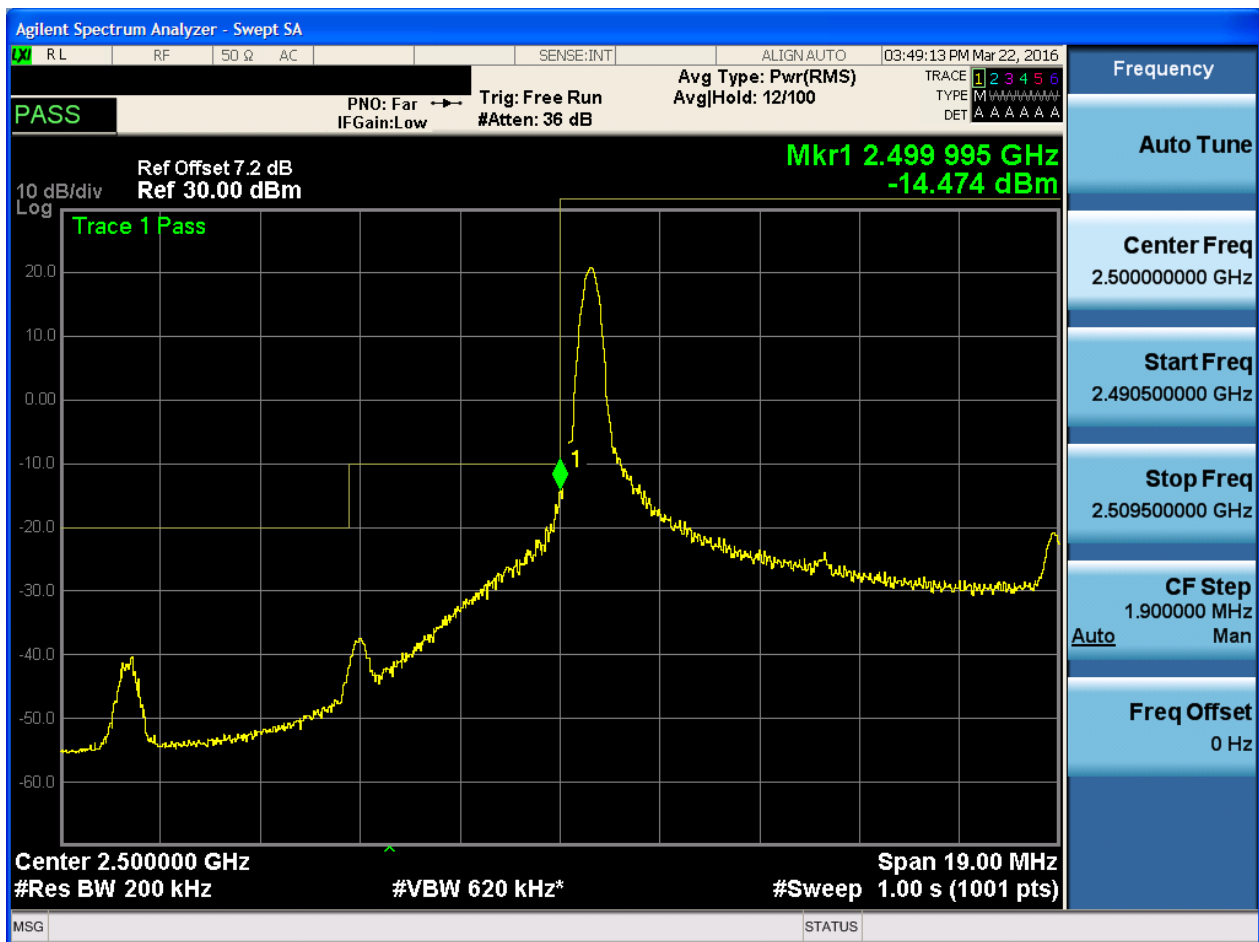




5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



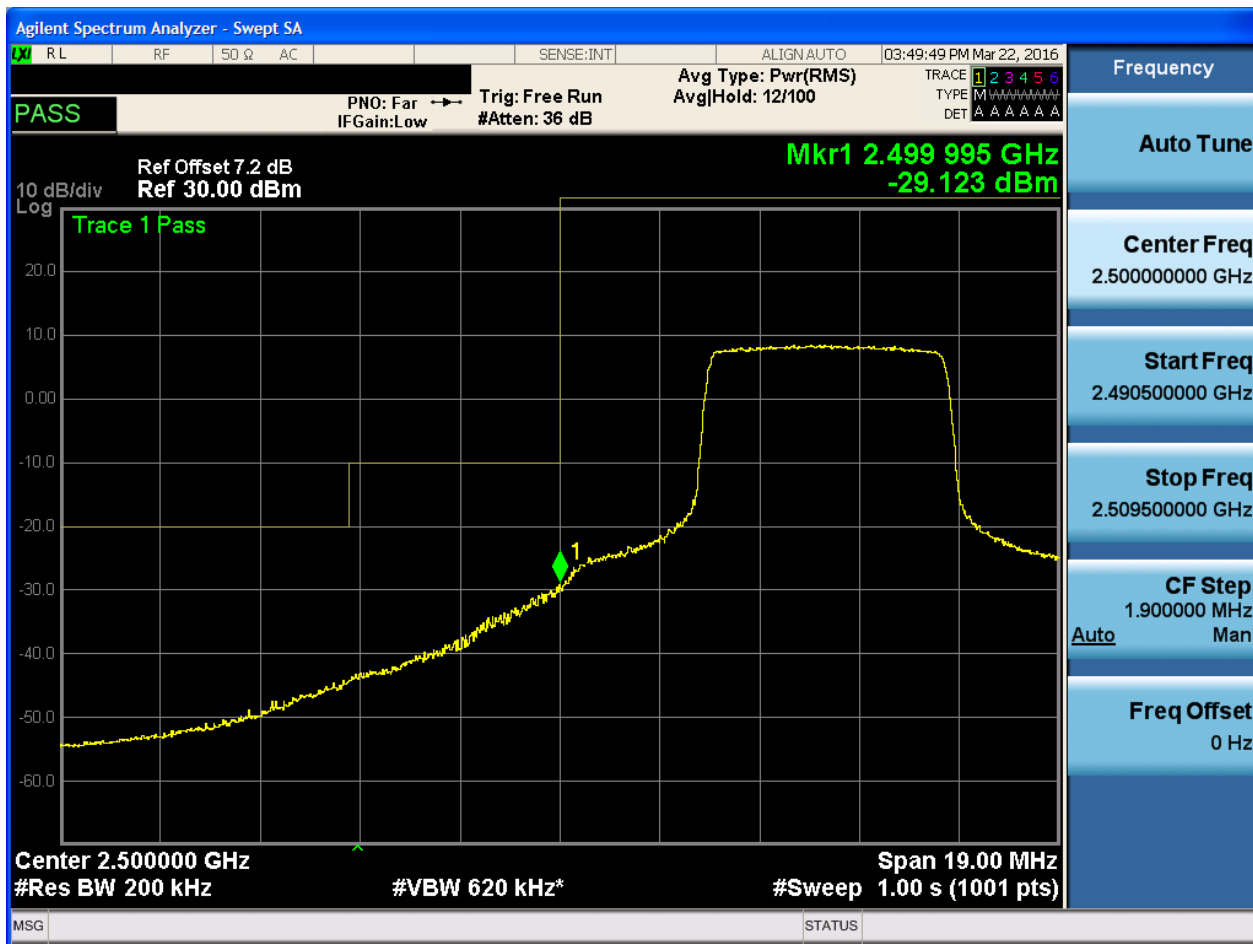


5.1.1.2.2.1.2 Test RB = RB1#49



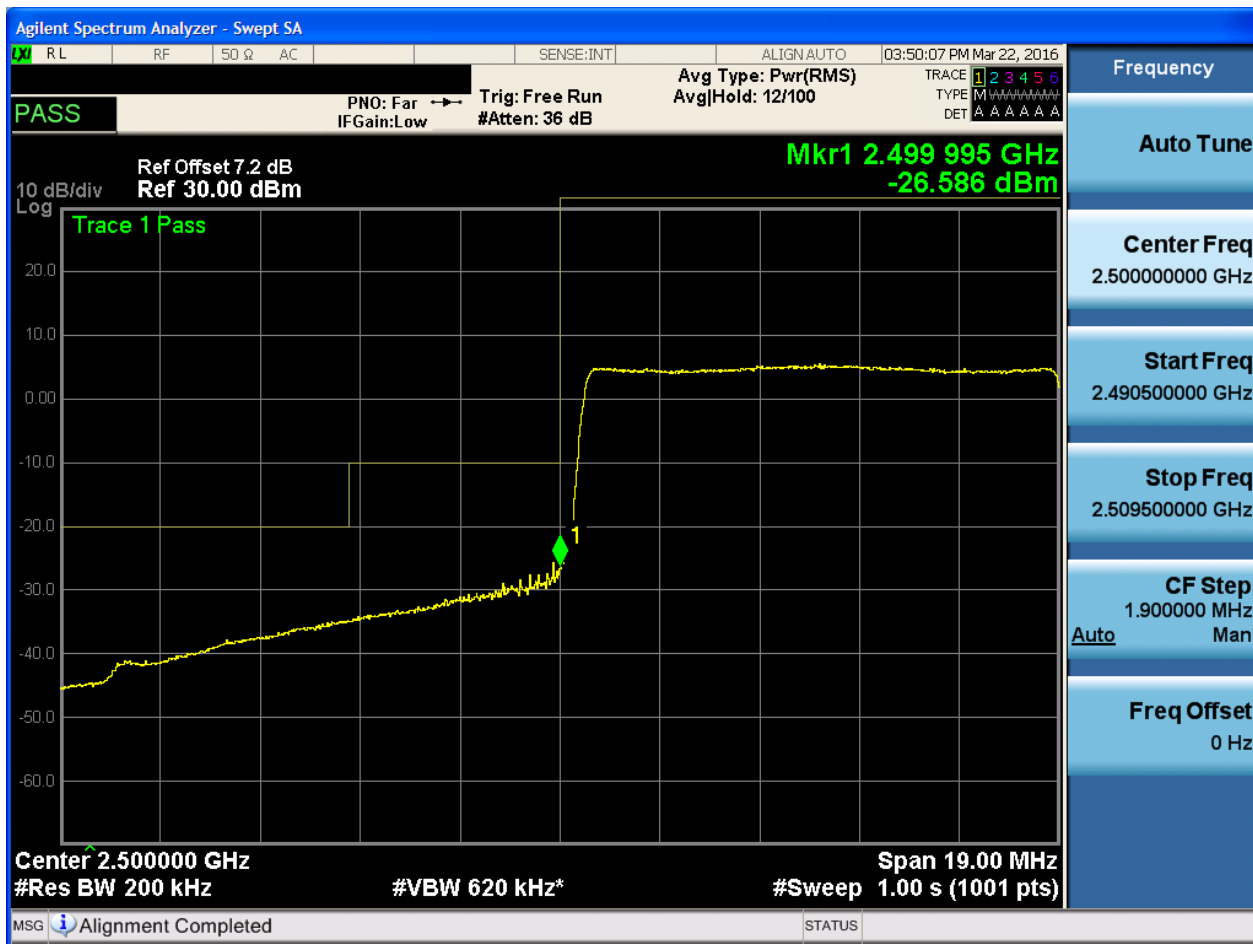


5.1.1.2.2.1.3 Test RB = RB25#13



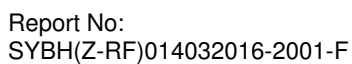


5.1.1.2.2.1.4 Test RB = RB50#0



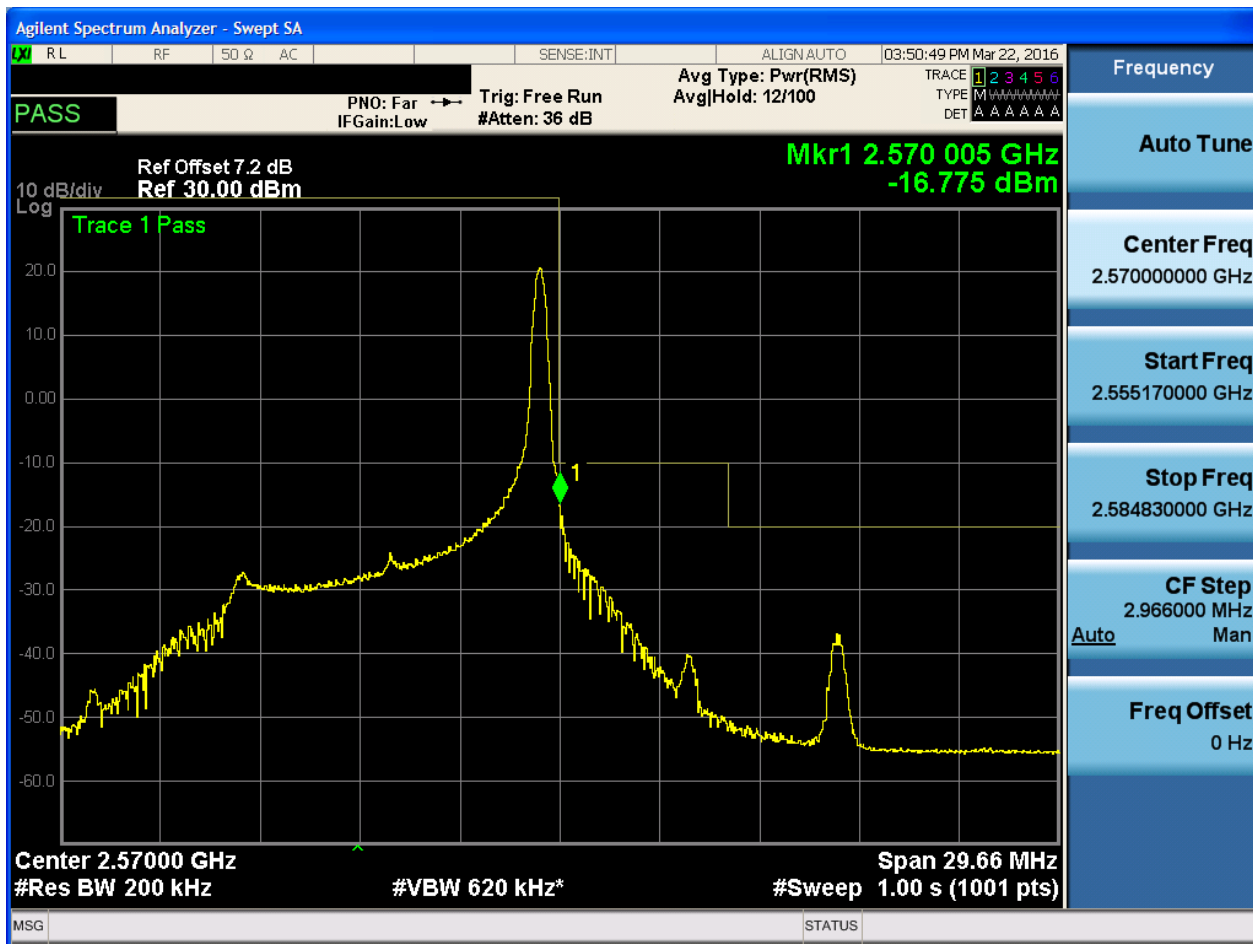


5.1.1.2.2.2.1 Test RB = RB1#0



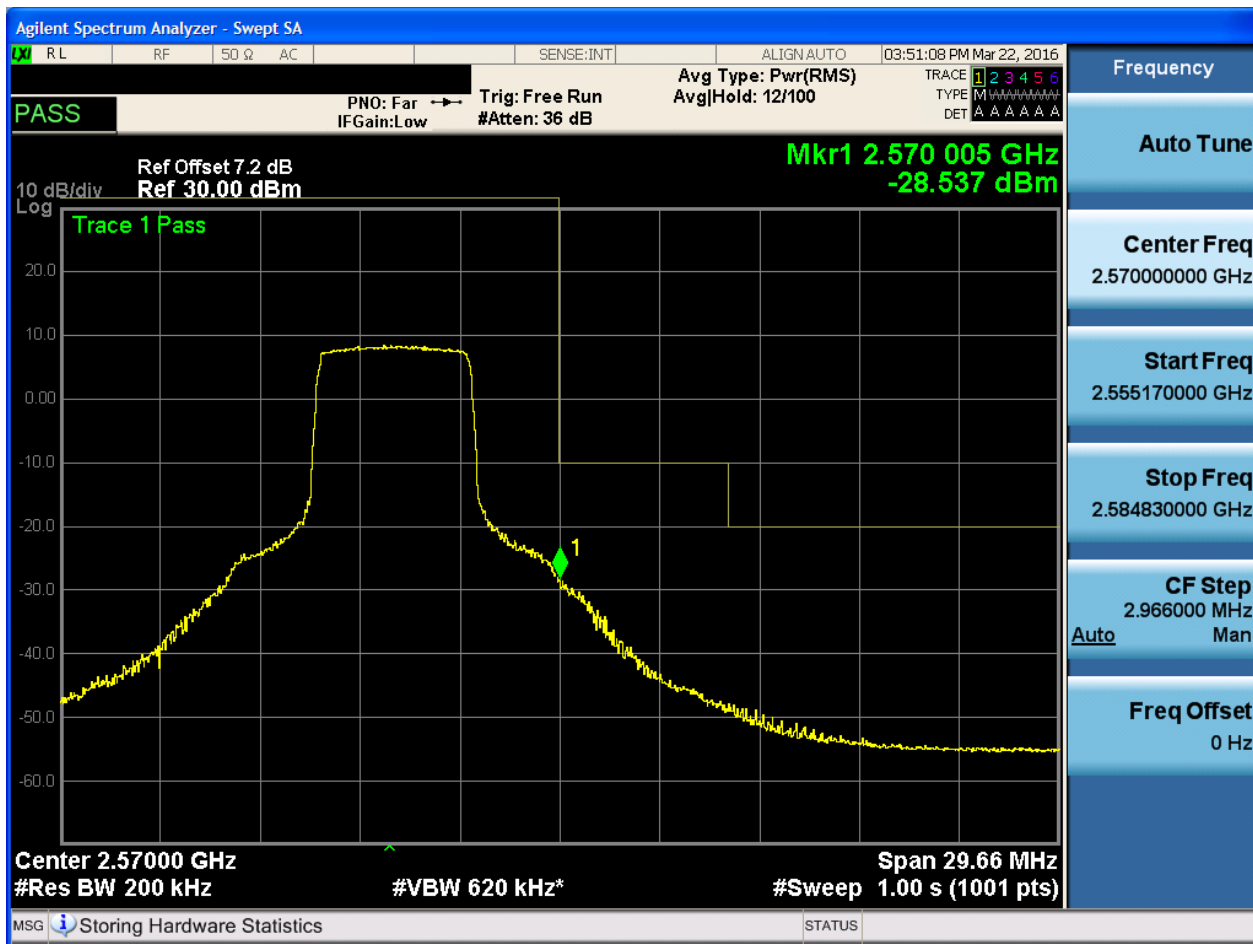


5.1.1.2.2.2.2 Test RB = RB1#49





5.1.1.2.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

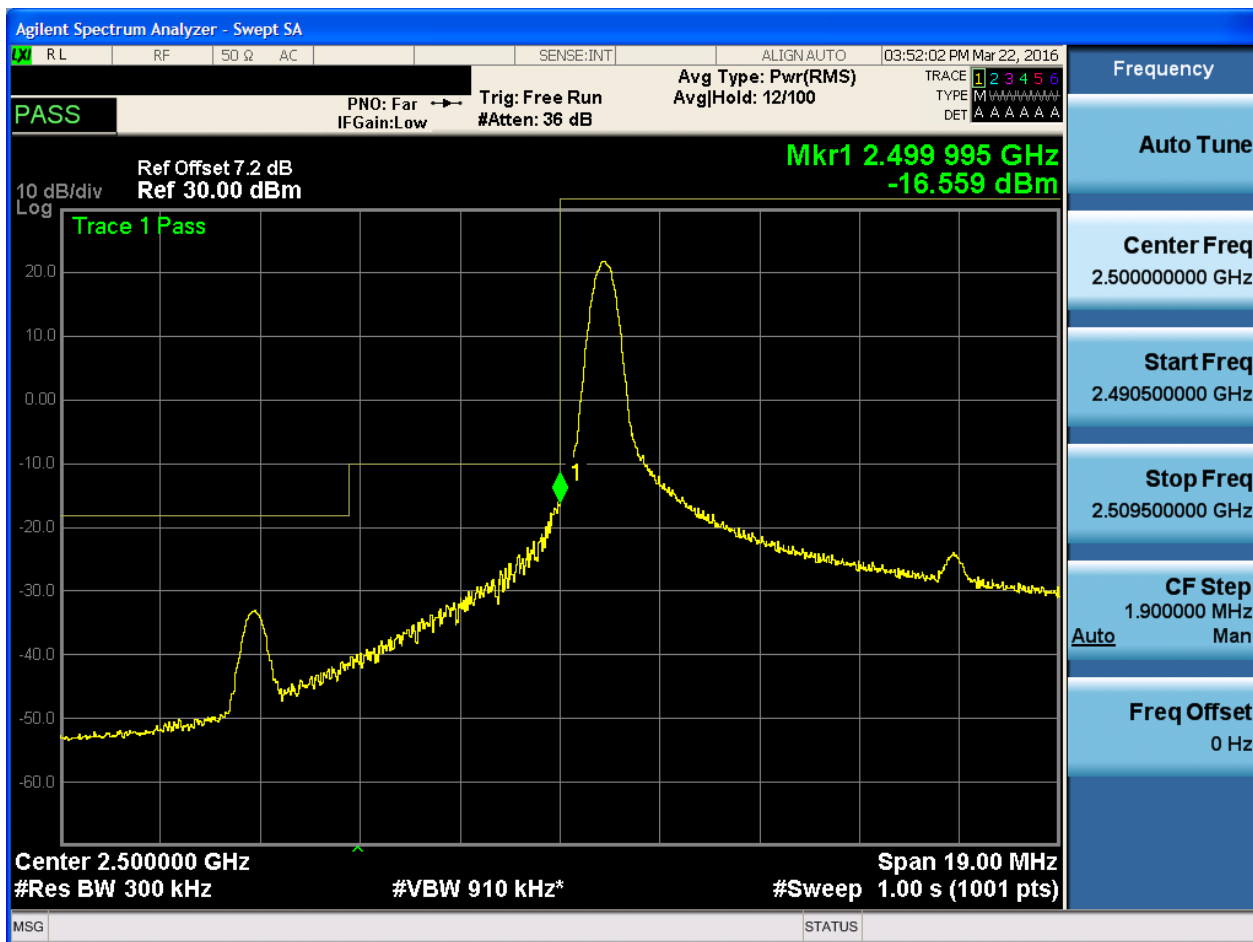




5.1.1.2.3 Test Bandwidth = 15

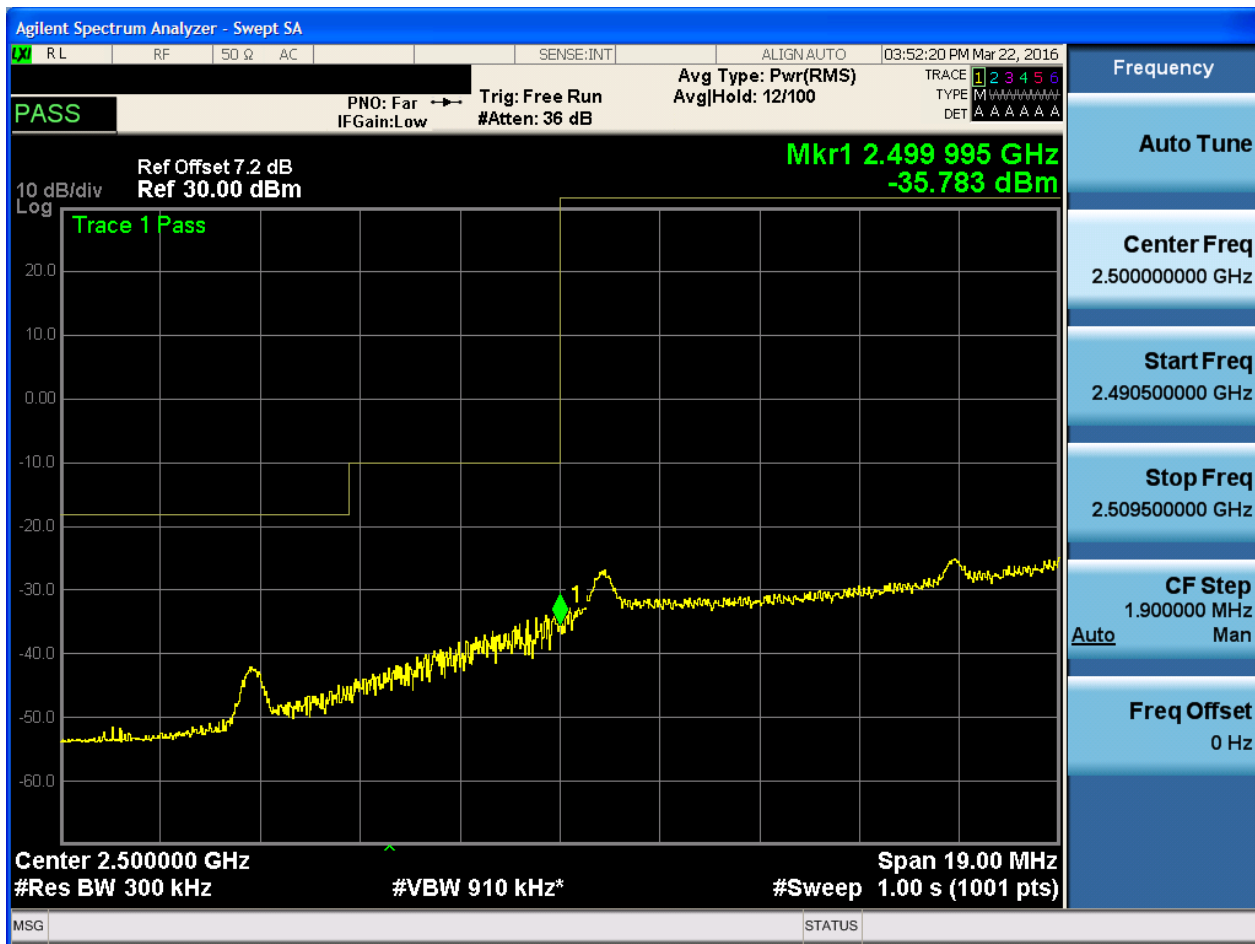
5.1.1.2.3.1 Test Channel = LCH

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



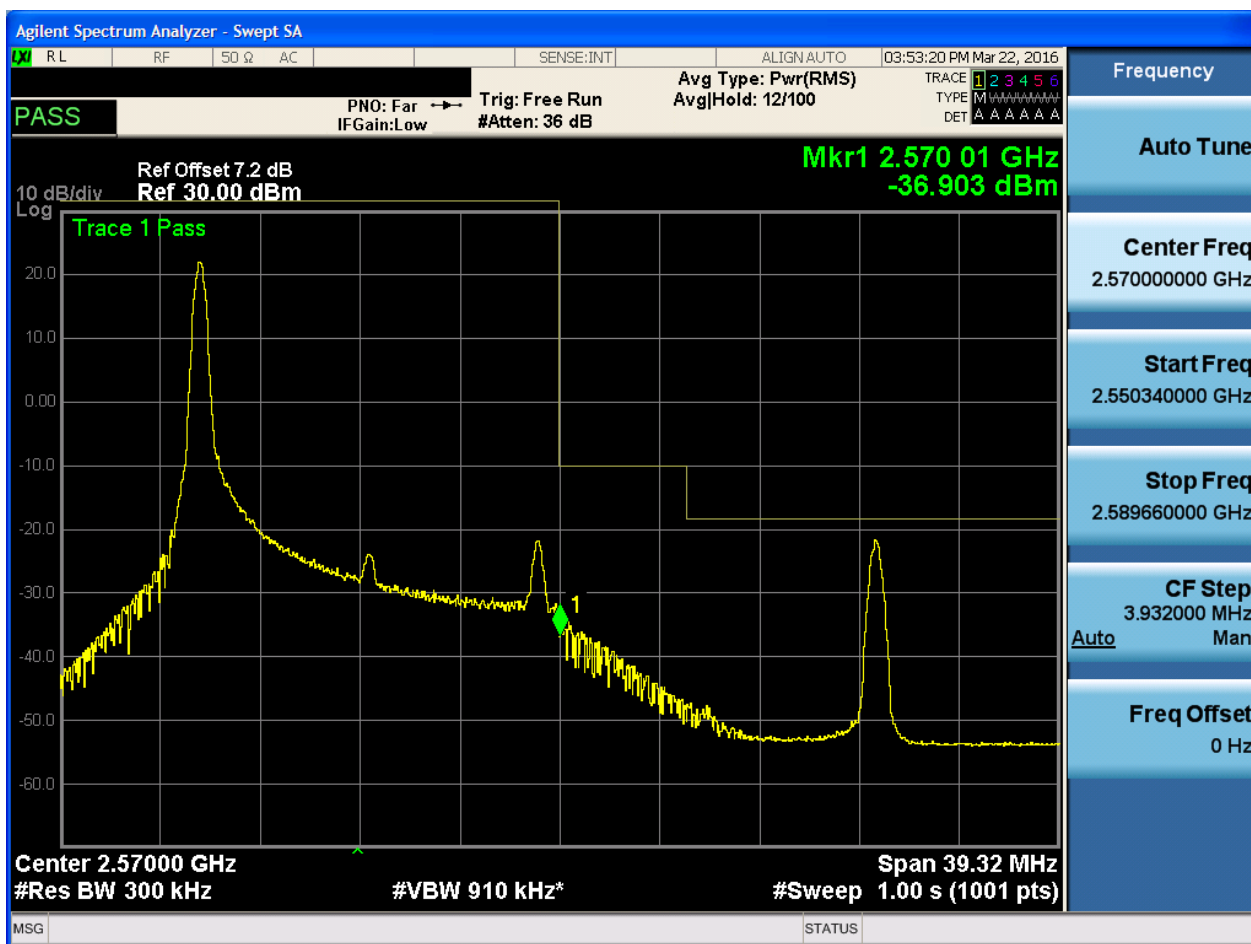


5.1.1.2.3.1.4 Test RB = RB75#0



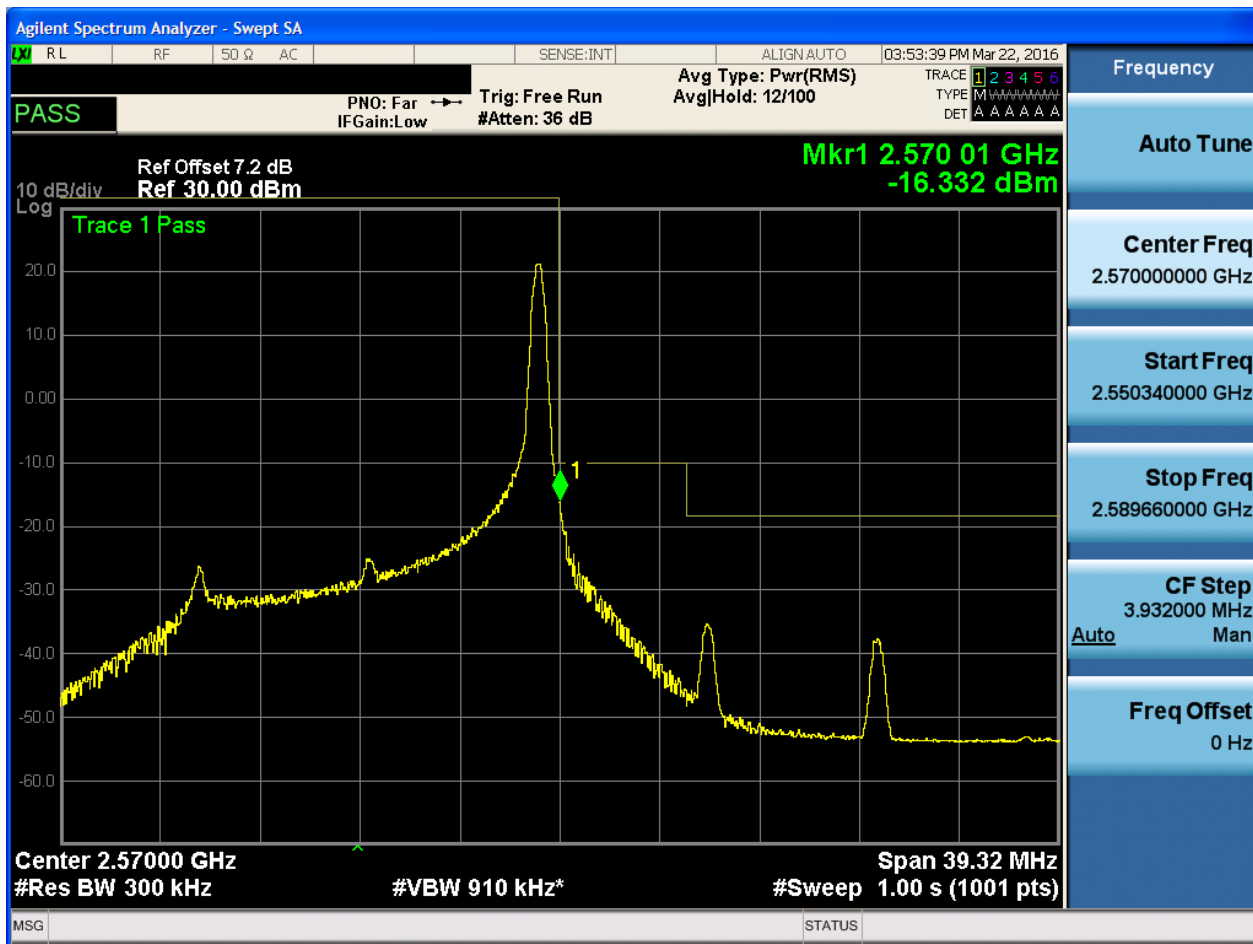
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

UXI R.L RF 50 Ω AC SENSE:INT ALIGN:AUTO 03:53:57 PM Mar 22, 2016

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

Ref Offset 7.2 dB Mkr1 2.570 01 GHz
Ref 30.00 dBm -30.236 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 39.32 MHz
#Res BW 300 kHz #VBW 910 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550340000 GHz

Stop Freq
2.589660000 GHz

CF Step
3.932000 MHz
Auto Man

Freq Offset
0 Hz



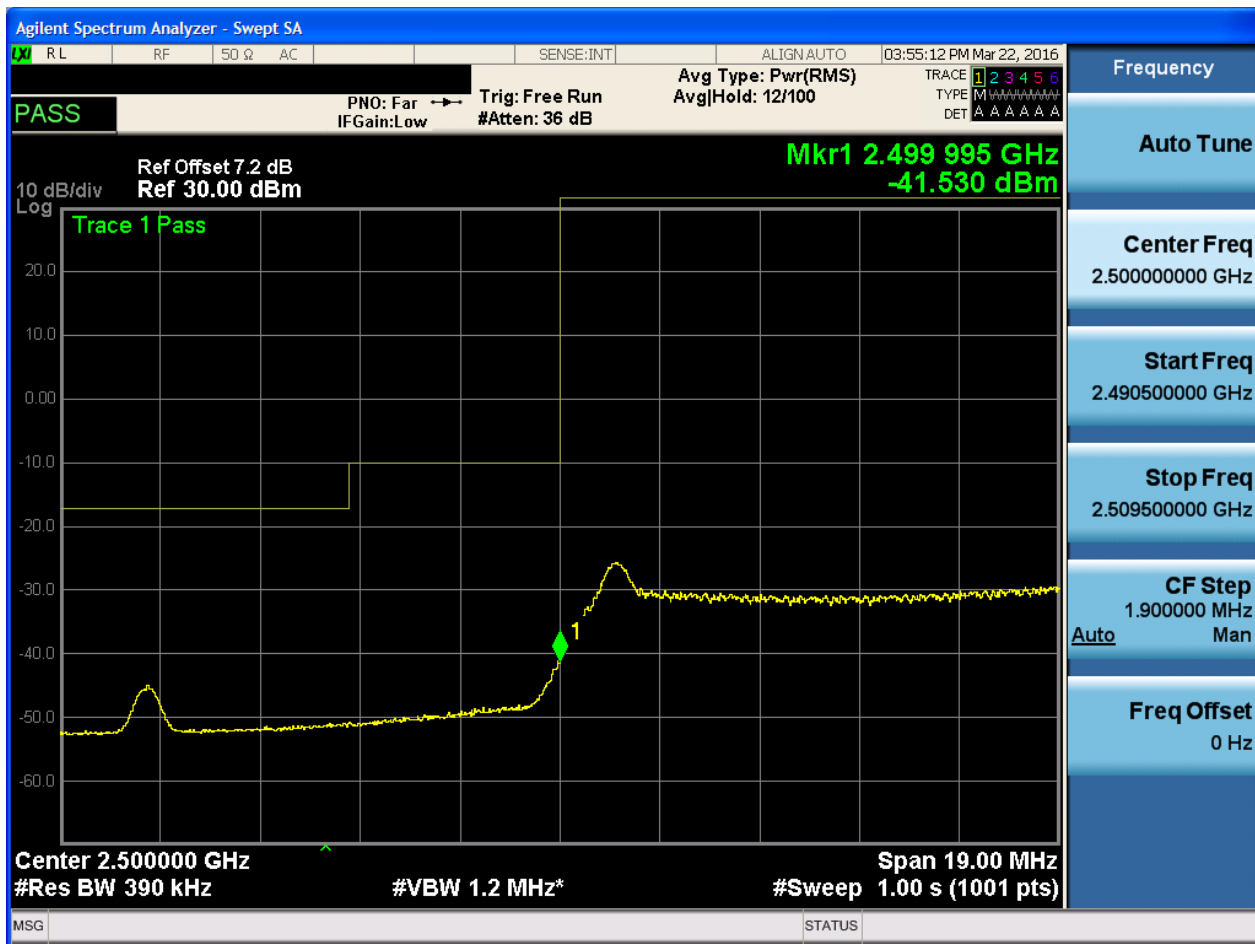
5.1.1.2.3.2.4 Test RB = RB75#0







5.1.1.2.4.1.2 Test RB = RB1#99



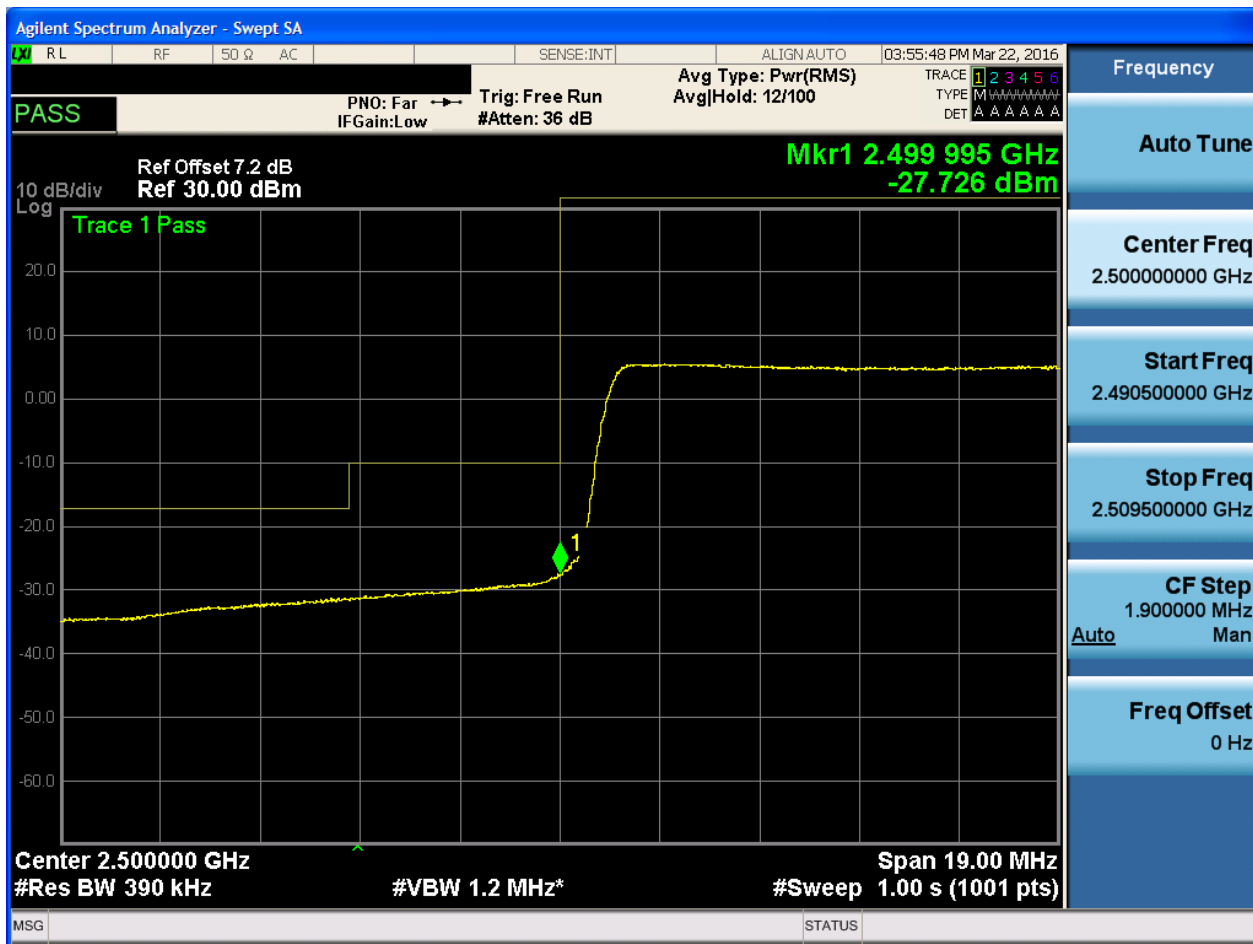


5.1.1.2.4.1.3 Test RB = RB50#25



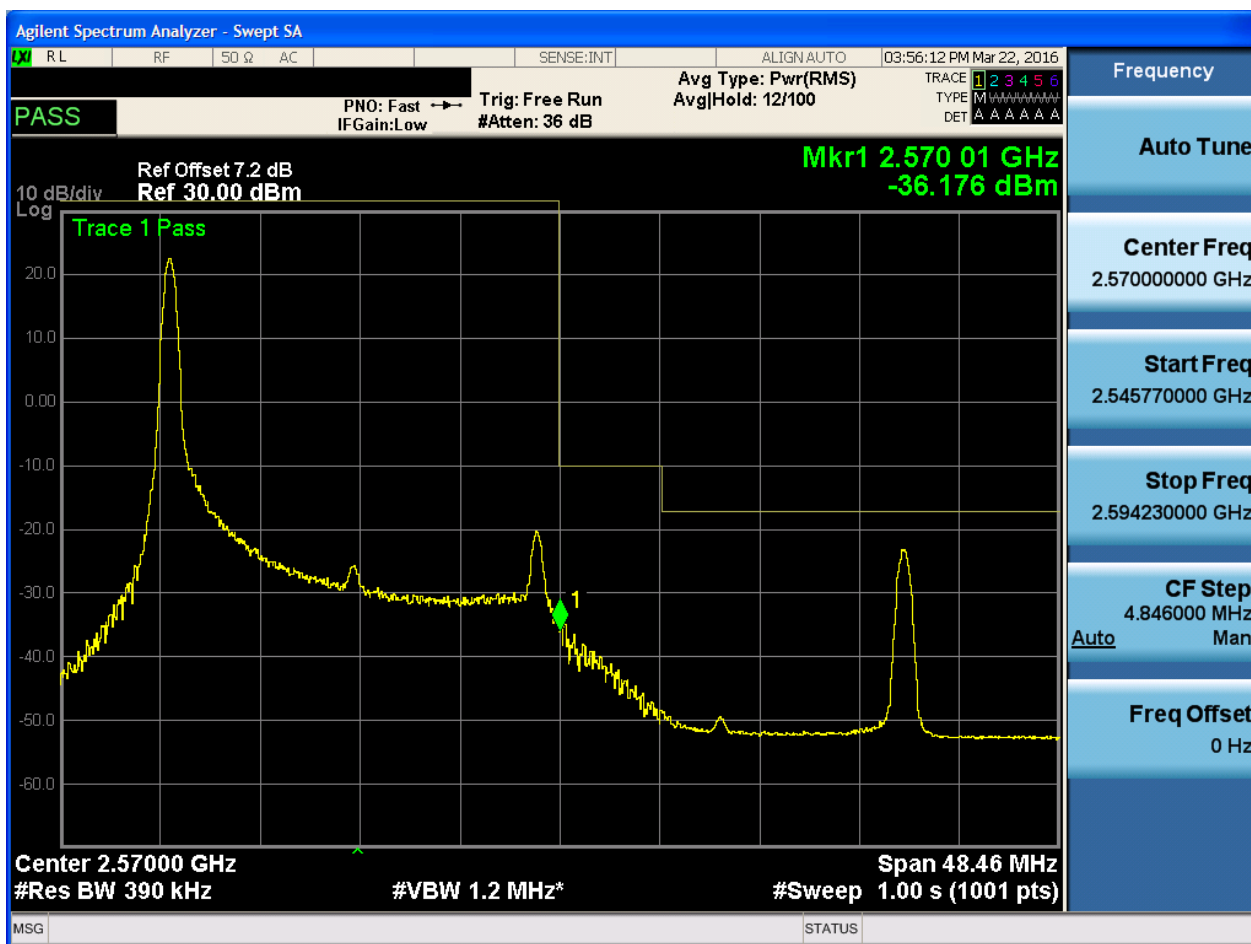


5.1.1.2.4.1.4 Test RB = RB100#0



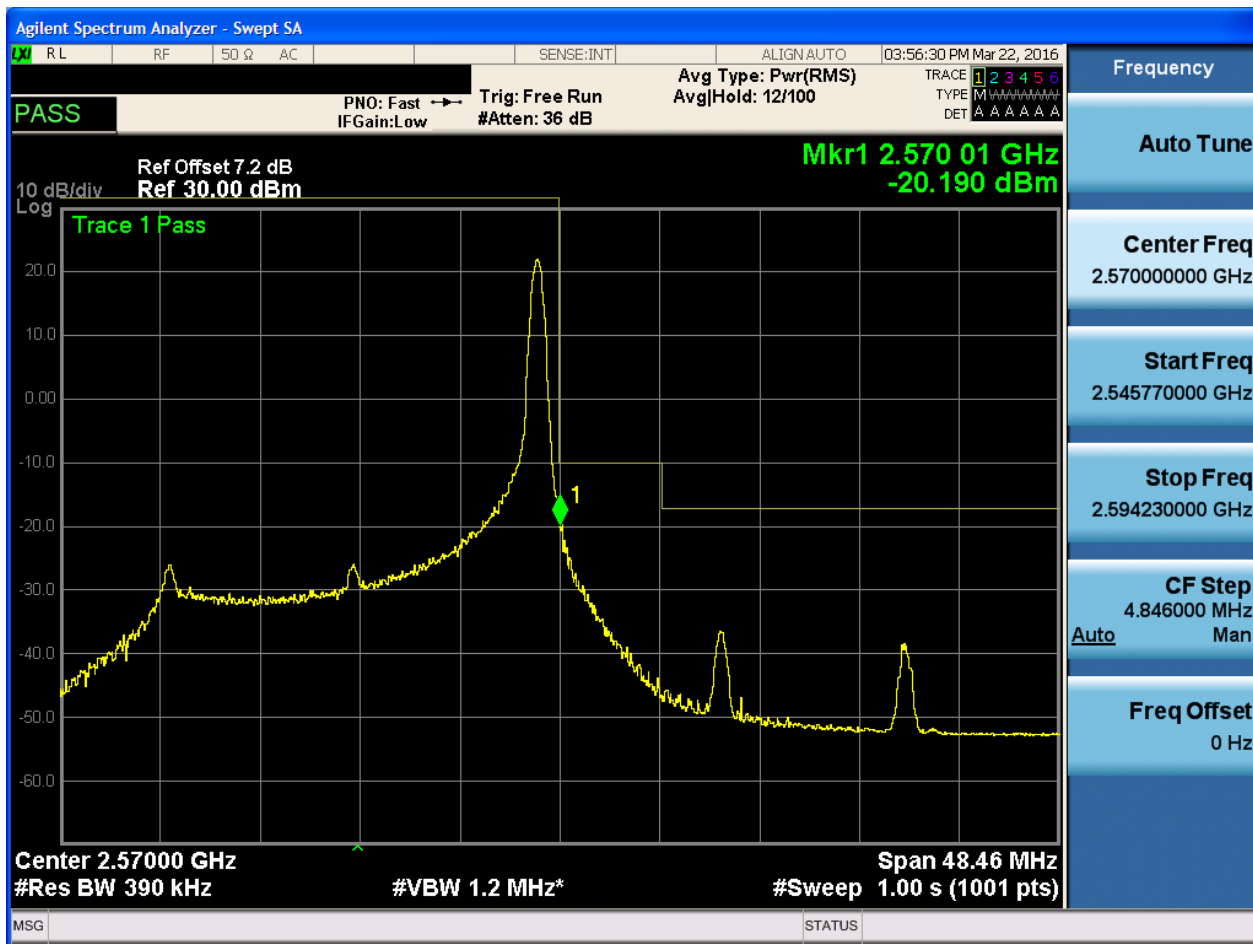
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



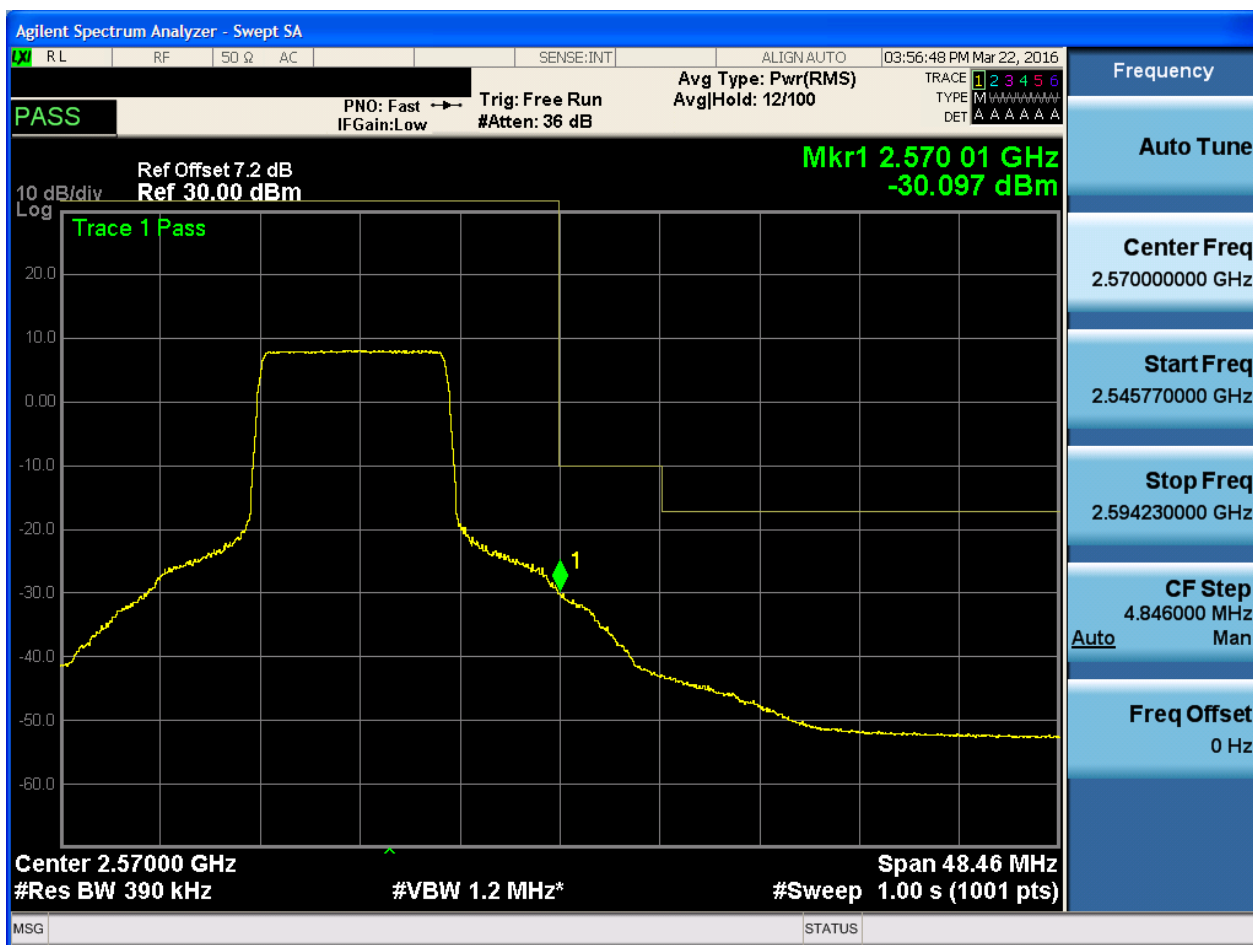


5.1.1.2.4.2.2 Test RB = RB1#99





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

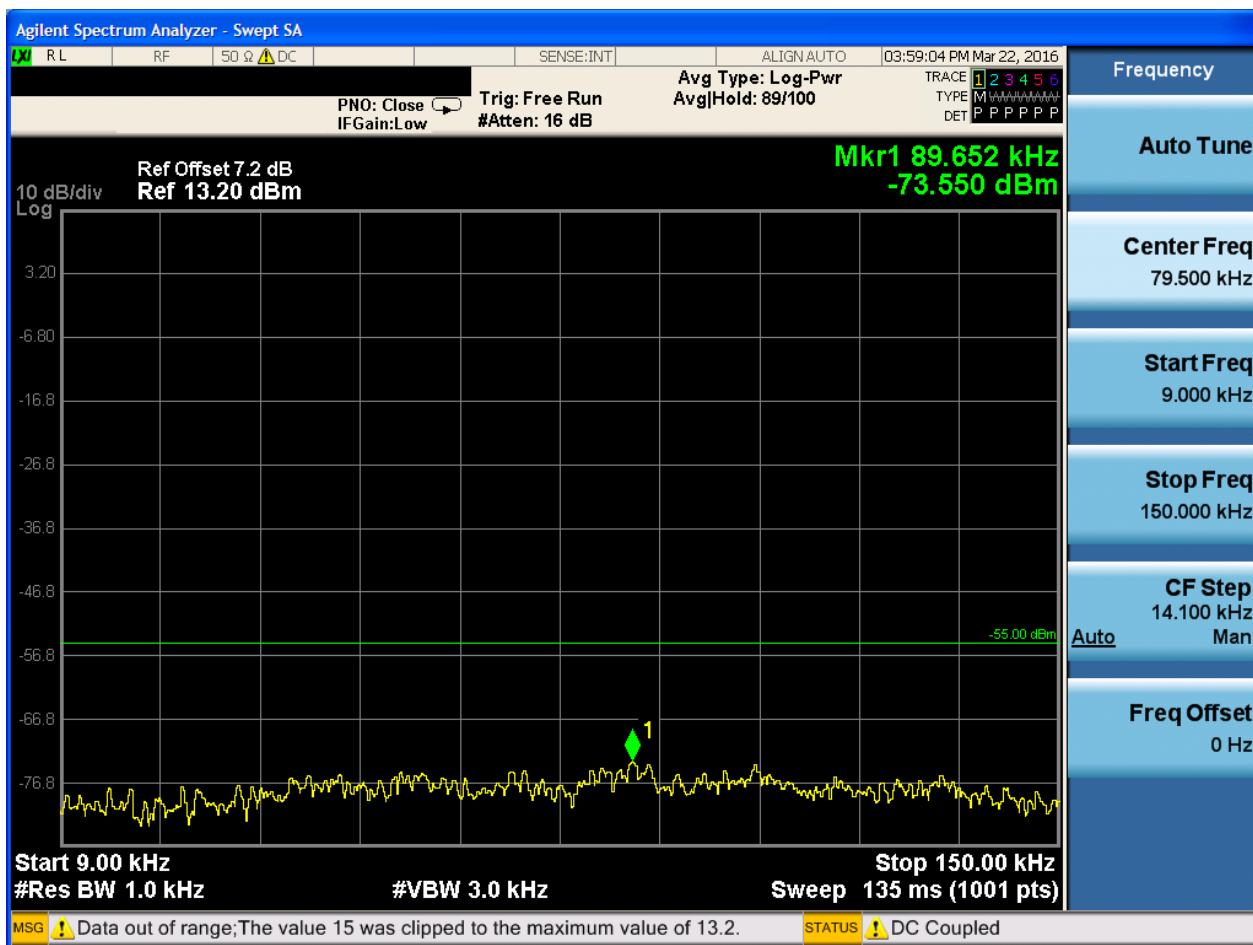
6.1.1 Test Band = BAND7

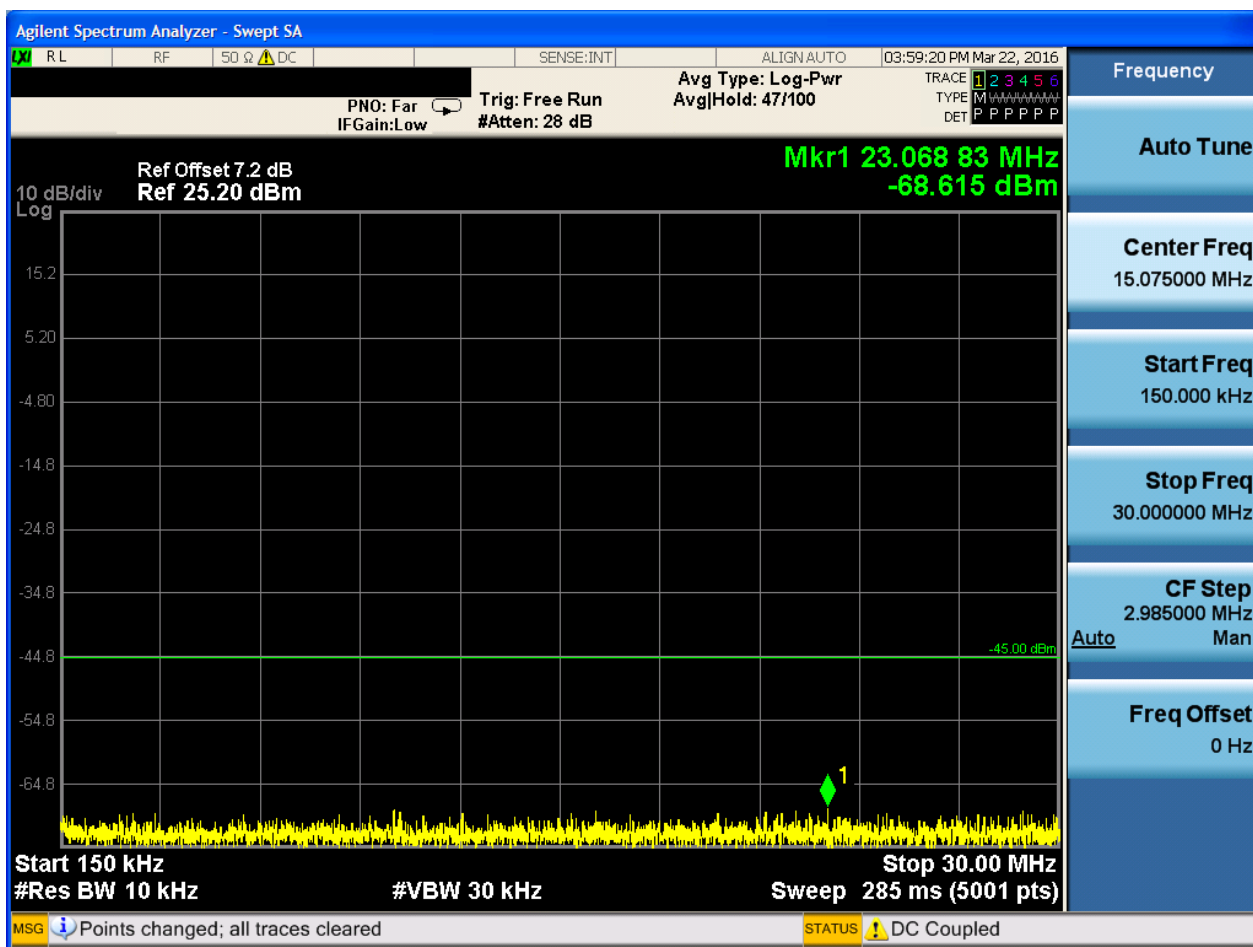
6.1.1.1 Test Mode = LTE/TM1

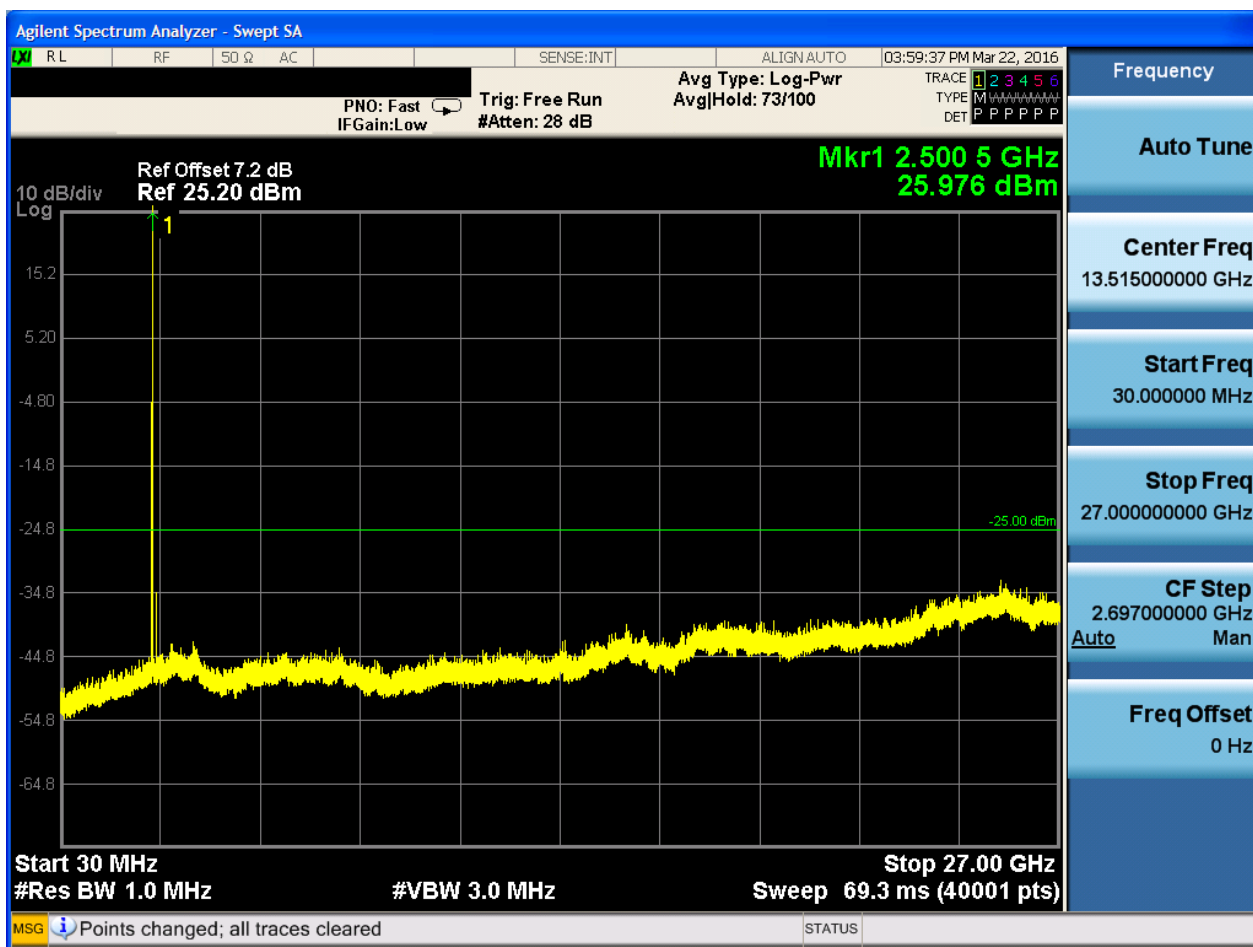
6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



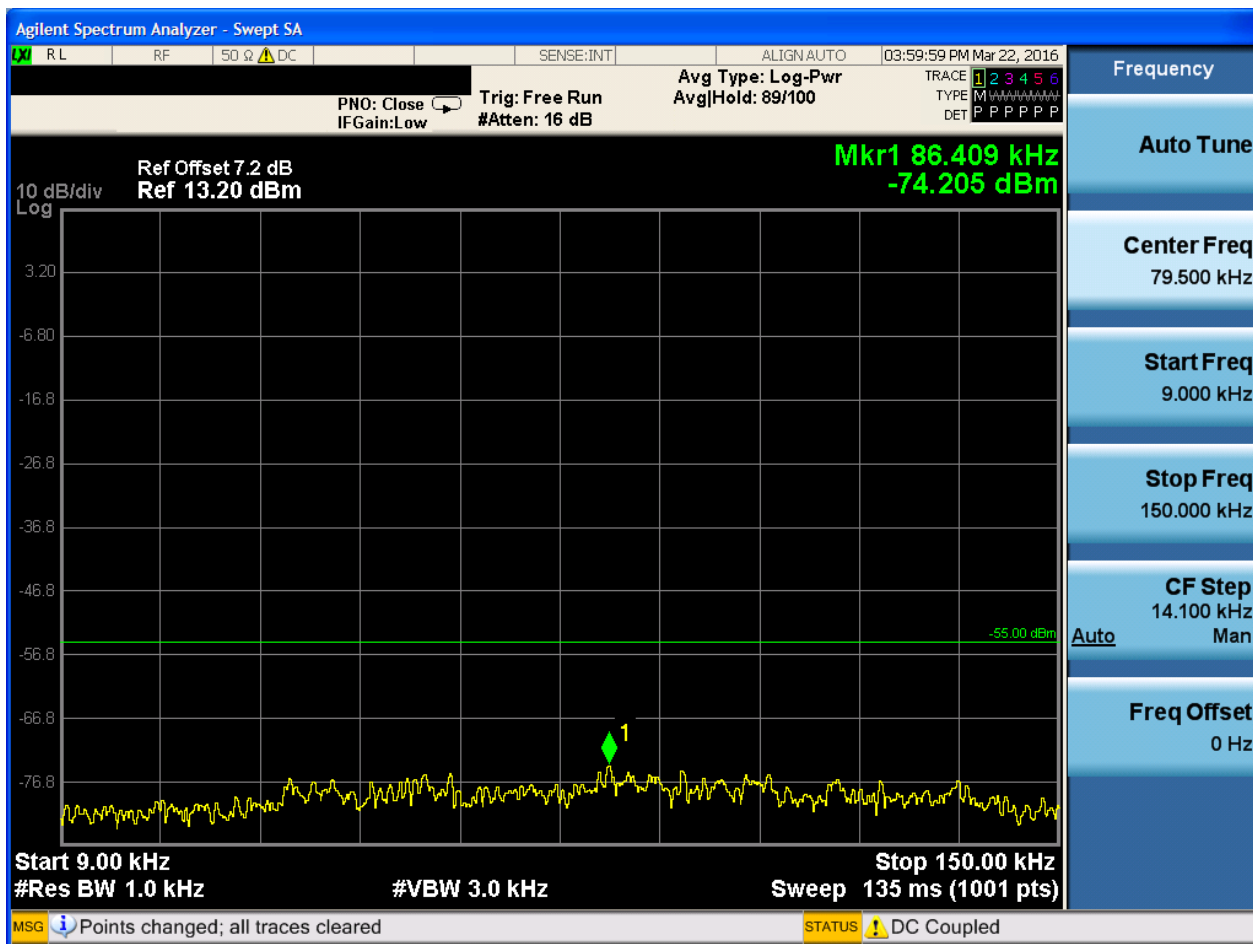




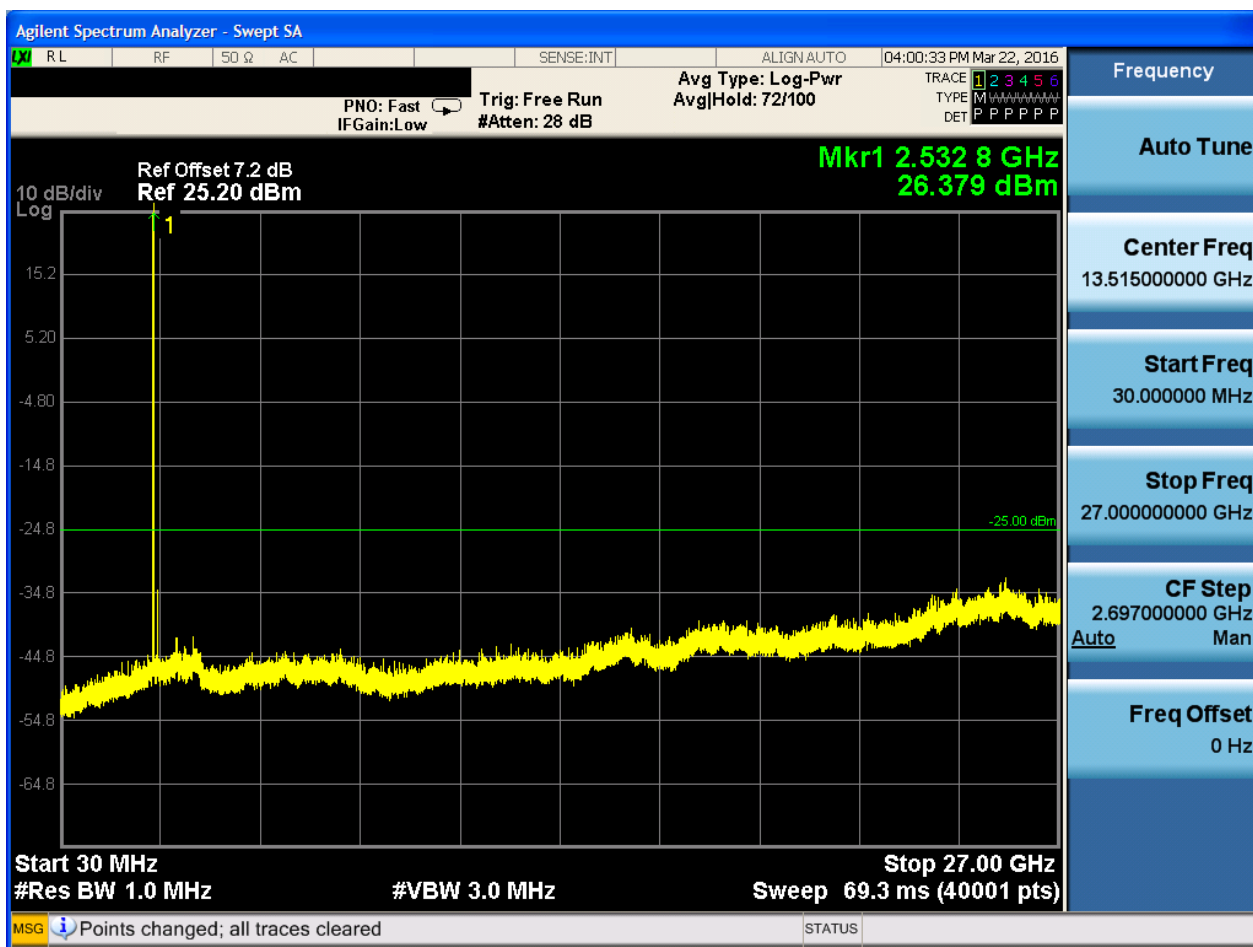


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



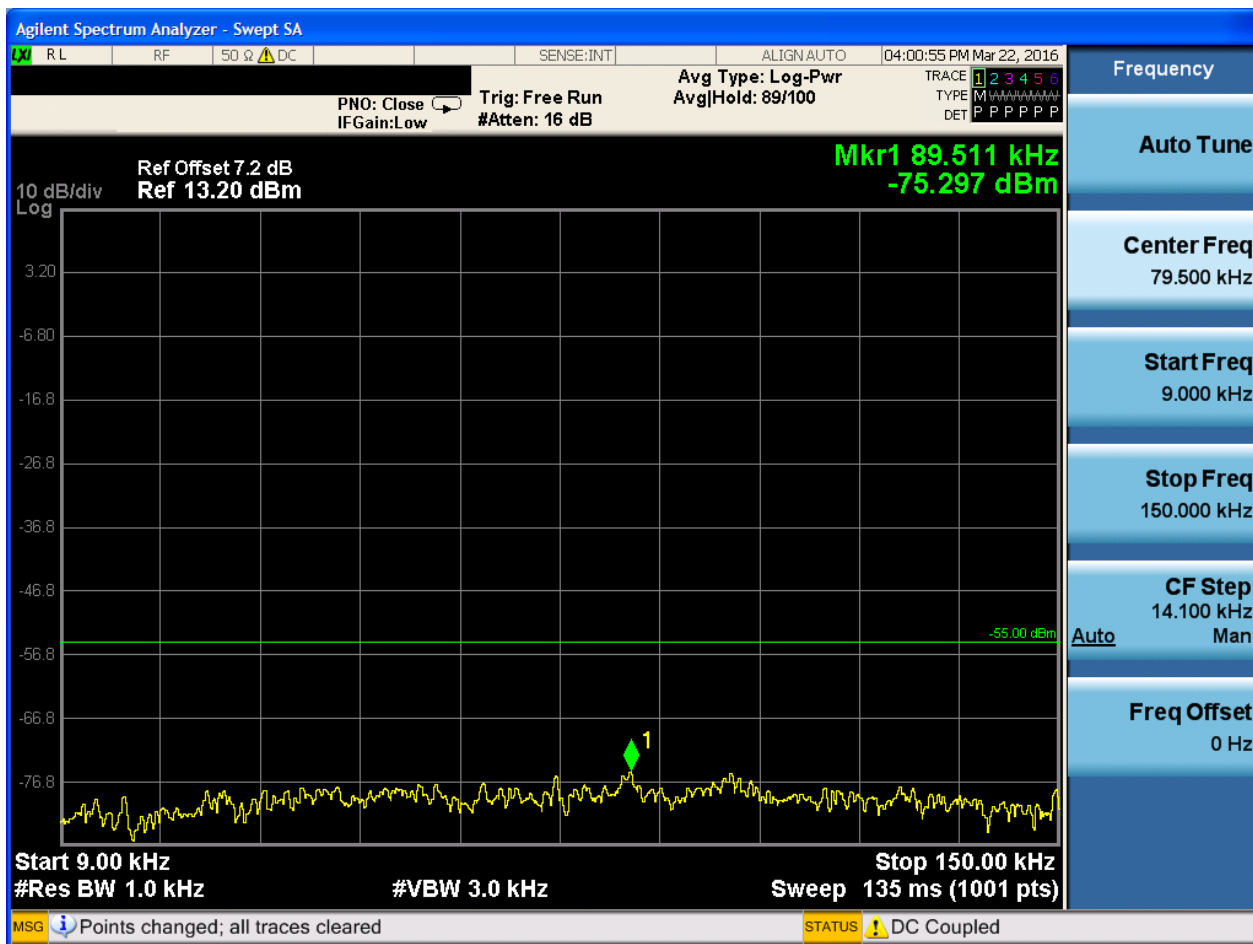


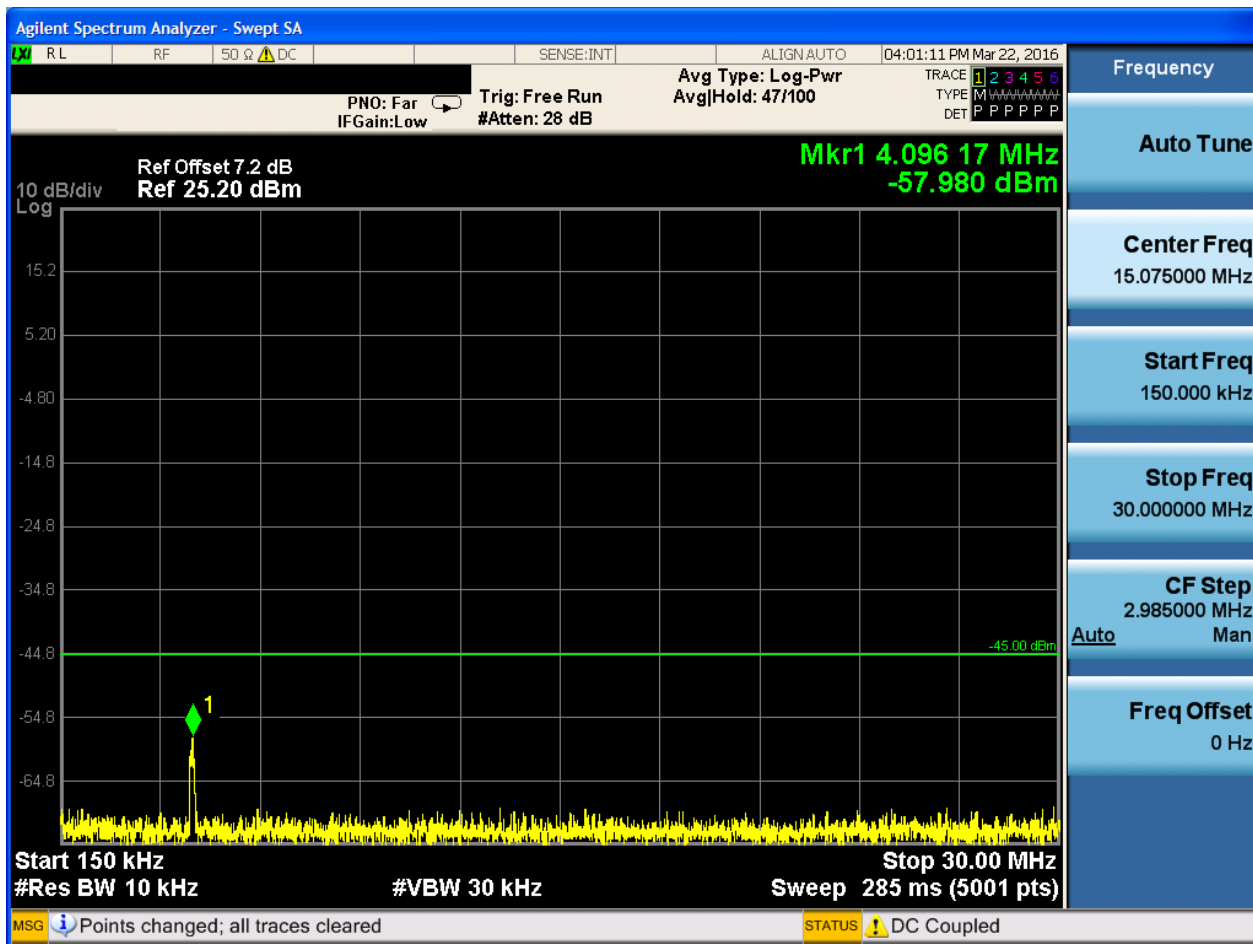


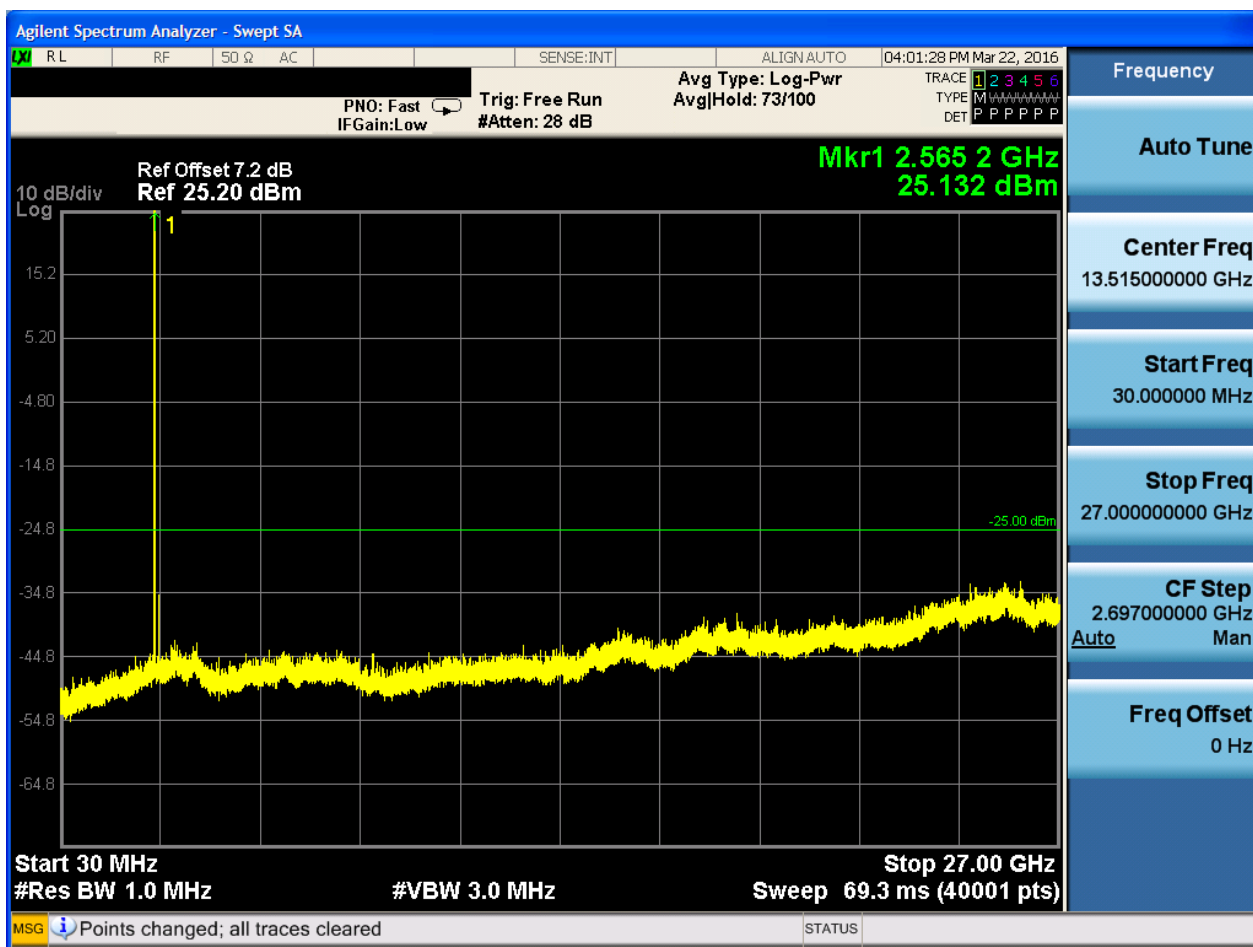


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0







6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

