



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	22.33	24.05	33	PASS
				RB1#13	22.31	24.03	33	PASS
				RB1#24	22.32	24.04	33	PASS
				RB12#0	21.26	22.98	33	PASS
				RB12#6	21.23	22.95	33	PASS
				RB12#13	21.2	22.92	33	PASS
			MCH	RB25#0	21.23	22.95	33	PASS
				RB1#0	22.37	24.09	33	PASS
				RB1#13	22.14	23.86	33	PASS
				RB1#24	22.32	24.04	33	PASS
				RB12#0	21.35	23.07	33	PASS
				RB12#6	21.3	23.02	33	PASS
				RB12#13	21.28	23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB25#0	21.28	23	33	PASS
				RB1#0	22.39	24.11	33	PASS
				RB1#13	22.42	24.14	33	PASS
				RB1#24	22.22	23.94	33	PASS
				RB12#0	21.29	23.01	33	PASS
				RB12#6	21.14	22.86	33	PASS
				RB12#13	21.15	22.87	33	PASS
				RB25#0	21.22	22.94	33	PASS
		10	LCH	RB1#0	22.47	24.19	33	PASS
				RB1#25	22.47	24.19	33	PASS
				RB1#49	22.44	24.16	33	PASS
				RB25#0	21.35	23.07	33	PASS
				RB25#13	21.24	22.96	33	PASS
				RB25#25	21.2	22.92	33	PASS
				RB50#0	21.27	22.99	33	PASS
			MCH	RB1#0	22.75	24.47	33	PASS
				RB1#25	22.56	24.28	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.47	24.19	33	PASS
				RB25#0	21.43	23.15	33	PASS
				RB25#13	21.36	23.08	33	PASS
				RB25#25	21.21	22.93	33	PASS
				RB50#0	21.39	23.11	33	PASS
			HCH	RB1#0	22.46	24.18	33	PASS
				RB1#25	22.43	24.15	33	PASS
				RB1#49	22.5	24.22	33	PASS
				RB25#0	21.37	23.09	33	PASS
				RB25#13	21.27	22.99	33	PASS
				RB25#25	21.16	22.88	33	PASS
				RB50#0	21.21	22.93	33	PASS
		15	LCH	RB1#0	22.63	24.35	33	PASS
				RB1#38	22.4	24.12	33	PASS
				RB1#74	22.35	24.07	33	PASS
				RB36#0	21.3	23.02	33	PASS
				RB36#18	21.21	22.93	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	21.18	22.9	33	PASS
				RB75#0	21.23	22.95	33	PASS
			MCH	RB1#0	22.58	24.3	33	PASS
				RB1#38	22.44	24.16	33	PASS
				RB1#74	22.58	24.3	33	PASS
				RB36#0	21.48	23.2	33	PASS
				RB36#18	21.36	23.08	33	PASS
				RB36#39	21.2	22.92	33	PASS
				RB75#0	21.3	23.02	33	PASS
			HCH	RB1#0	22.74	24.46	33	PASS
				RB1#38	22.42	24.14	33	PASS
				RB1#74	22.49	24.21	33	PASS
				RB36#0	21.36	23.08	33	PASS
				RB36#18	21.34	23.06	33	PASS
				RB36#39	21.2	22.92	33	PASS
				RB75#0	21.21	22.93	33	PASS
		20	LCH	RB1#0	22.45	24.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	22.29	24.01	33	PASS
				RB1#99	22.19	23.91	33	PASS
				RB50#0	21.44	23.16	33	PASS
				RB50#25	21.29	23.01	33	PASS
				RB50#50	21.25	22.97	33	PASS
				RB100#0	21.33	23.05	33	PASS
			MCH	RB1#0	22.54	24.26	33	PASS
				RB1#50	22.51	24.23	33	PASS
				RB1#99	22.17	23.89	33	PASS
				RB50#0	21.51	23.23	33	PASS
				RB50#25	21.37	23.09	33	PASS
				RB50#50	21.22	22.94	33	PASS
				RB100#0	21.38	23.1	33	PASS
			HCH	RB1#0	22.55	24.27	33	PASS
				RB1#50	22.56	24.28	33	PASS
				RB1#99	22.19	23.91	33	PASS
				RB50#0	21.42	23.14	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	21.36	23.08	33	PASS
				RB50#50	21.28	23	33	PASS
				RB100#0	21.32	23.04	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.22	22.94	33	PASS
				RB1#13	21.13	22.85	33	PASS
				RB1#24	21.13	22.85	33	PASS
				RB12#0	20.31	22.03	33	PASS
				RB12#6	20.3	22.02	33	PASS
				RB12#13	20.4	22.12	33	PASS
				RB25#0	20.38	22.1	33	PASS
			MCH	RB1#0	21.38	23.1	33	PASS
				RB1#13	21.23	22.95	33	PASS
				RB1#24	21.2	22.92	33	PASS
				RB12#0	20.38	22.1	33	PASS
				RB12#6	20.37	22.09	33	PASS
				RB12#13	20.36	22.08	33	PASS
				RB25#0	20.39	22.11	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.28	23	33	PASS
				RB1#13	20.9	22.62	33	PASS
				RB1#24	20.89	22.61	33	PASS
				RB12#0	20.49	22.21	33	PASS
				RB12#6	20.47	22.19	33	PASS
				RB12#13	20.32	22.04	33	PASS
				RB25#0	20.44	22.16	33	PASS
		10	LCH	RB1#0	21.58	23.3	33	PASS
				RB1#25	21.65	23.37	33	PASS
				RB1#49	21.38	23.1	33	PASS
				RB25#0	20.35	22.07	33	PASS
				RB25#13	20.16	21.88	33	PASS
				RB25#25	20.13	21.85	33	PASS
				RB50#0	20.23	21.95	33	PASS
			MCH	RB1#0	21.65	23.37	33	PASS
				RB1#25	21.45	23.17	33	PASS
				RB1#49	21.41	23.13	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.26	21.98	33	PASS
				RB25#13	20.34	22.06	33	PASS
				RB25#25	20.33	22.05	33	PASS
				RB50#0	20.3	22.02	33	PASS
			HCH	RB1#0	21.61	23.33	33	PASS
				RB1#25	21.63	23.35	33	PASS
				RB1#49	21.47	23.19	33	PASS
				RB25#0	20.35	22.07	33	PASS
				RB25#13	20.4	22.12	33	PASS
				RB25#25	20.2	21.92	33	PASS
				RB50#0	20.27	21.99	33	PASS
		15	LCH	RB1#0	21.37	23.09	33	PASS
				RB1#38	21.07	22.79	33	PASS
				RB1#74	21.01	22.73	33	PASS
				RB36#0	20.46	22.18	33	PASS
				RB36#18	20.33	22.05	33	PASS
				RB36#39	20.29	22.01	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.3	22.02	33	PASS
			MCH	RB1#0	21.62	23.34	33	PASS
				RB1#38	21.46	23.18	33	PASS
				RB1#74	21.41	23.13	33	PASS
				RB36#0	20.52	22.24	33	PASS
				RB36#18	20.42	22.14	33	PASS
				RB36#39	20.27	21.99	33	PASS
				RB75#0	20.36	22.08	33	PASS
			HCH	RB1#0	21.64	23.36	33	PASS
				RB1#38	21.56	23.28	33	PASS
				RB1#74	21.4	23.12	33	PASS
				RB36#0	20.45	22.17	33	PASS
				RB36#18	20.39	22.11	33	PASS
				RB36#39	20.3	22.02	33	PASS
				RB75#0	20.37	22.09	33	PASS
		20	LCH	RB1#0	21.69	23.41	33	PASS
				RB1#50	21.85	23.57	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.35	23.07	33	PASS
				RB50#0	20.56	22.28	33	PASS
				RB50#25	20.36	22.08	33	PASS
				RB50#50	20.32	22.04	33	PASS
				RB100#0	20.25	21.97	33	PASS
			MCH	RB1#0	21.6	23.32	33	PASS
				RB1#50	21.6	23.32	33	PASS
				RB1#99	21.29	23.01	33	PASS
				RB50#0	20.56	22.28	33	PASS
				RB50#25	20.46	22.18	33	PASS
				RB50#50	20.39	22.11	33	PASS
				RB100#0	20.41	22.13	33	PASS
			HCH	RB1#0	22	23.72	33	PASS
				RB1#50	21.75	23.47	33	PASS
				RB1#99	21.38	23.1	33	PASS
				RB50#0	20.56	22.28	33	PASS
				RB50#25	20.47	22.19	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.41	22.13	33	PASS
				RB100#0	20.34	22.06	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	3.17	13	PASS
				RB1#13	3.23	13	PASS
				RB1#24	3.28	13	PASS
				RB12#0	4.34	13	PASS
				RB12#6	4.27	13	PASS
				RB12#13	4.41	13	PASS
				RB25#0	5.01	13	PASS
			MCH	RB1#0	3.71	13	PASS
				RB1#13	3.67	13	PASS
				RB1#24	3.69	13	PASS
				RB12#0	4.65	13	PASS
				RB12#6	4.56	13	PASS
				RB12#13	4.65	13	PASS
				RB25#0	5.18	13	PASS
			HCH	RB1#0	3.37	13	PASS
				RB1#13	3.32	13	PASS
				RB1#24	3.05	13	PASS
				RB12#0	4.46	13	PASS
				RB12#6	4.4	13	PASS
				RB12#13	4.34	13	PASS
				RB25#0	4.88	13	PASS
		10	LCH	RB1#0	3.01	13	PASS
				RB1#25	3.16	13	PASS
				RB1#49	3.31	13	PASS
				RB25#0	4.38	13	PASS
				RB25#13	4.44	13	PASS
				RB25#25	4.6	13	PASS
				RB50#0	5.45	13	PASS
			MCH	RB1#0	3.52	13	PASS
				RB1#25	3.5	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	3.39	13	PASS
				RB25#0	4.66	13	PASS
				RB25#13	4.6	13	PASS
				RB25#25	4.71	13	PASS
				RB50#0	5.6	13	PASS
			HCH	RB1#0	3.38	13	PASS
				RB1#25	3.23	13	PASS
				RB1#49	2.92	13	PASS
				RB25#0	4.59	13	PASS
				RB25#13	4.55	13	PASS
				RB25#25	4.44	13	PASS
				RB50#0	4.95	13	PASS
		15	LCH	RB1#0	2.91	13	PASS
				RB1#38	3.22	13	PASS
				RB1#74	3.45	13	PASS
				RB36#0	4.4	13	PASS
				RB36#18	4.44	13	PASS
				RB36#39	4.65	13	PASS
				RB75#0	5.33	13	PASS
			MCH	RB1#0	3.56	13	PASS
				RB1#38	3.41	13	PASS
				RB1#74	3.36	13	PASS
				RB36#0	4.67	13	PASS
				RB36#18	4.66	13	PASS
				RB36#39	4.71	13	PASS
				RB75#0	5.47	13	PASS
			HCH	RB1#0	3.14	13	PASS
				RB1#38	3.35	13	PASS
				RB1#74	2.98	13	PASS
				RB36#0	4.55	13	PASS
				RB36#18	4.64	13	PASS
				RB36#39	4.61	13	PASS
				RB75#0	5.34	13	PASS
		20	LCH	RB1#0	3.12	13	PASS
				RB1#50	3.33	13	PASS
				RB1#99	3.62	13	PASS
				RB50#0	4.5	13	PASS
				RB50#25	4.56	13	PASS
				RB50#50	4.76	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	5.14	13	PASS
			MCH	RB1#0	3.64	13	PASS
				RB1#50	3.46	13	PASS
				RB1#99	3.45	13	PASS
				RB50#0	4.66	13	PASS
				RB50#25	4.68	13	PASS
				RB50#50	4.71	13	PASS
				RB100#0	5.34	13	PASS
			HCH	RB1#0	3.02	13	PASS
				RB1#50	3.39	13	PASS
				RB1#99	2.86	13	PASS
				RB50#0	4.54	13	PASS
				RB50#25	4.59	13	PASS
				RB50#50	4.68	13	PASS
				RB100#0	5.23	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.4	13	PASS
				RB1#13	4.46	13	PASS
				RB1#24	4.58	13	PASS
				RB12#0	5.29	13	PASS
				RB12#6	5.21	13	PASS
				RB12#13	5.31	13	PASS
				RB25#0	5.9	13	PASS
			MCH	RB1#0	4.66	13	PASS
				RB1#13	4.6	13	PASS
				RB1#24	4.75	13	PASS
				RB12#0	5.55	13	PASS
				RB12#6	5.53	13	PASS
				RB12#13	5.5	13	PASS
				RB25#0	6.15	13	PASS
			HCH	RB1#0	4.6	13	PASS
				RB1#13	4.51	13	PASS
				RB1#24	4.52	13	PASS
				RB12#0	5.43	13	PASS
				RB12#6	5.44	13	PASS
				RB12#13	5.39	13	PASS
				RB25#0	6	13	PASS
		10	LCH	RB1#0	4.13	13	PASS
				RB1#25	3.73	13	PASS
				RB1#49	4.1	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.43	13	PASS
				RB25#13	5.46	13	PASS
				RB25#25	5.61	13	PASS
				RB50#0	6.4	13	PASS
			MCH	RB1#0	4.59	13	PASS
				RB1#25	4.18	13	PASS
				RB1#49	4.25	13	PASS
				RB25#0	5.64	13	PASS
				RB25#13	5.63	13	PASS
				RB25#25	5.77	13	PASS
				RB50#0	6.53	13	PASS
			HCH	RB1#0	4.16	13	PASS
				RB1#25	3.98	13	PASS
				RB1#49	3.98	13	PASS
				RB25#0	5.62	13	PASS
				RB25#13	5.59	13	PASS
				RB25#25	5.59	13	PASS
				RB50#0	6.18	13	PASS
		15	LCH	RB1#0	3.85	13	PASS
				RB1#38	4.17	13	PASS
				RB1#74	4.39	13	PASS
				RB36#0	5.41	13	PASS
				RB36#18	5.47	13	PASS
				RB36#39	5.72	13	PASS
				RB75#0	6.25	13	PASS
			MCH	RB1#0	4.43	13	PASS
				RB1#38	4.37	13	PASS
				RB1#74	4.57	13	PASS
				RB36#0	5.77	13	PASS
				RB36#18	5.74	13	PASS
				RB36#39	5.79	13	PASS
				RB75#0	6.33	13	PASS
			HCH	RB1#0	4.1	13	PASS
				RB1#38	4.29	13	PASS
				RB1#74	4.01	13	PASS
				RB36#0	5.67	13	PASS
				RB36#18	5.62	13	PASS
				RB36#39	5.67	13	PASS
				RB75#0	6.22	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	3.93	13	PASS
				RB1#50	4.23	13	PASS
				RB1#99	4.37	13	PASS
				RB50#0	5.42	13	PASS
				RB50#25	5.5	13	PASS
				RB50#50	5.72	13	PASS
				RB100#0	6.07	13	PASS
			MCH	RB1#0	4.02	13	PASS
				RB1#50	4.05	13	PASS
				RB1#99	3.92	13	PASS
				RB50#0	5.66	13	PASS
				RB50#25	5.66	13	PASS
				RB50#50	5.72	13	PASS
				RB100#0	6.54	13	PASS
			HCH	RB1#0	4.03	13	PASS
				RB1#50	4.27	13	PASS
				RB1#99	4.21	13	PASS
				RB50#0	5.55	13	PASS
				RB50#25	5.6	13	PASS
				RB50#50	5.67	13	PASS
				RB100#0	6.5	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

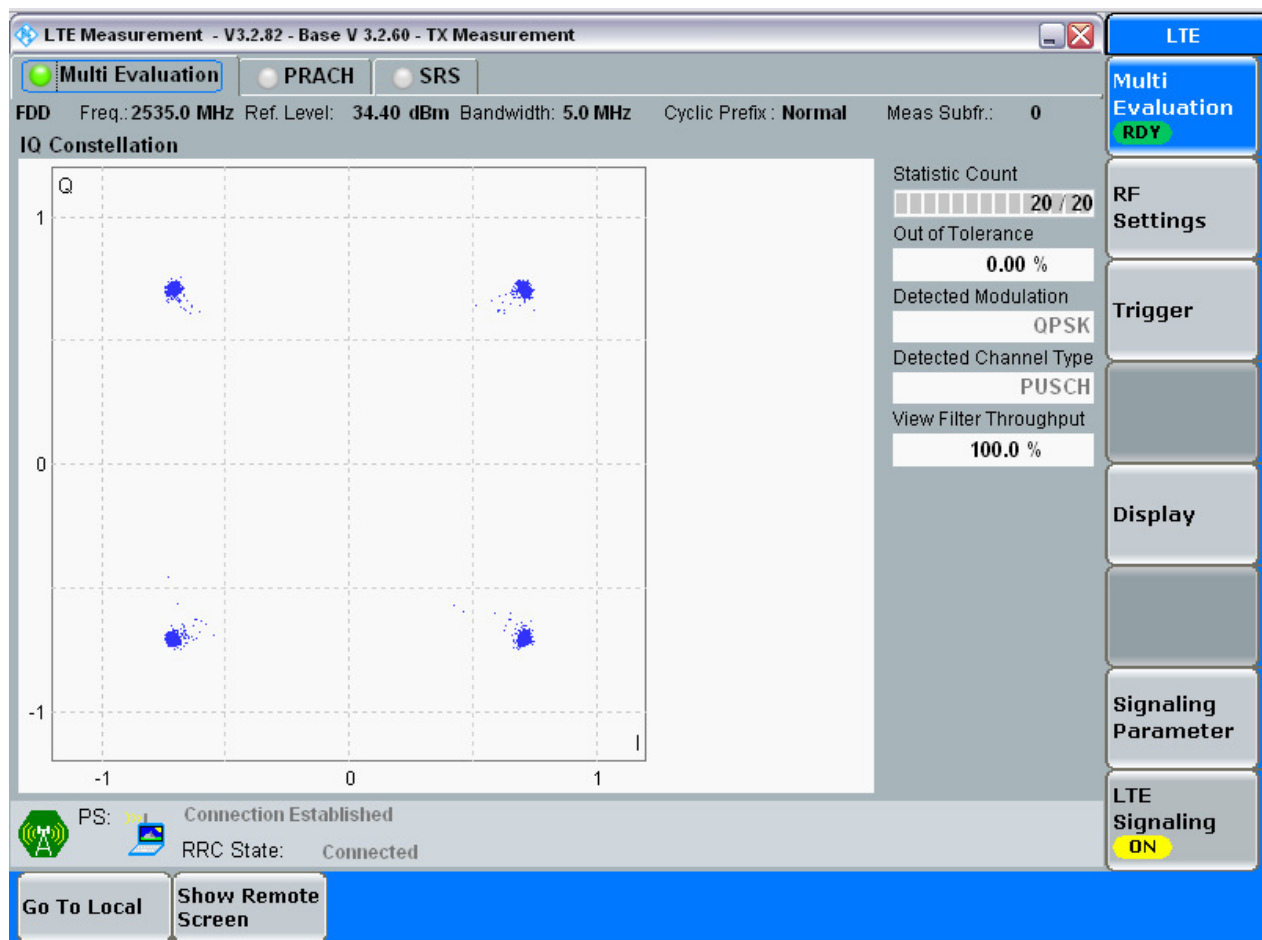
3.1.1 Test Band = BAND7

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

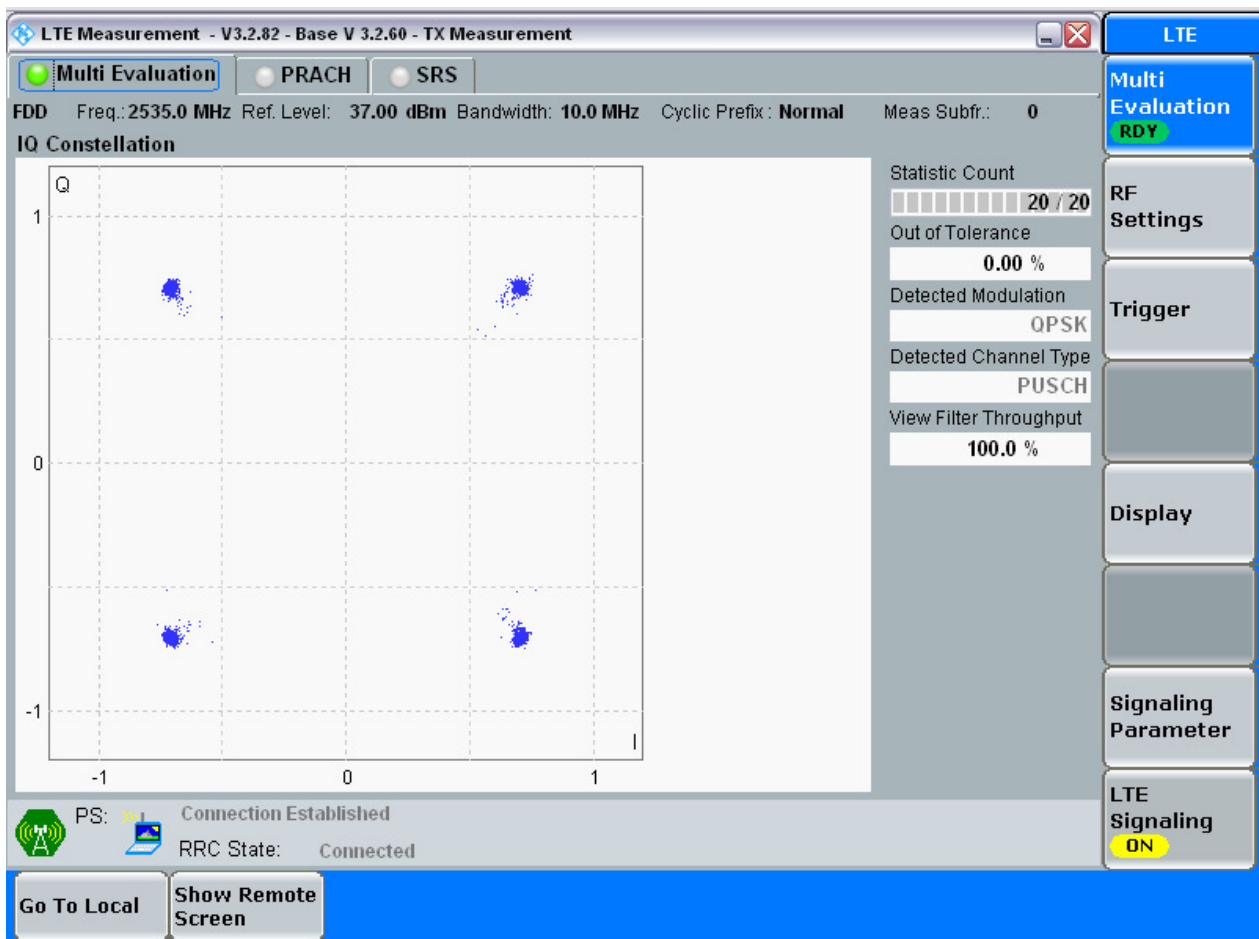
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

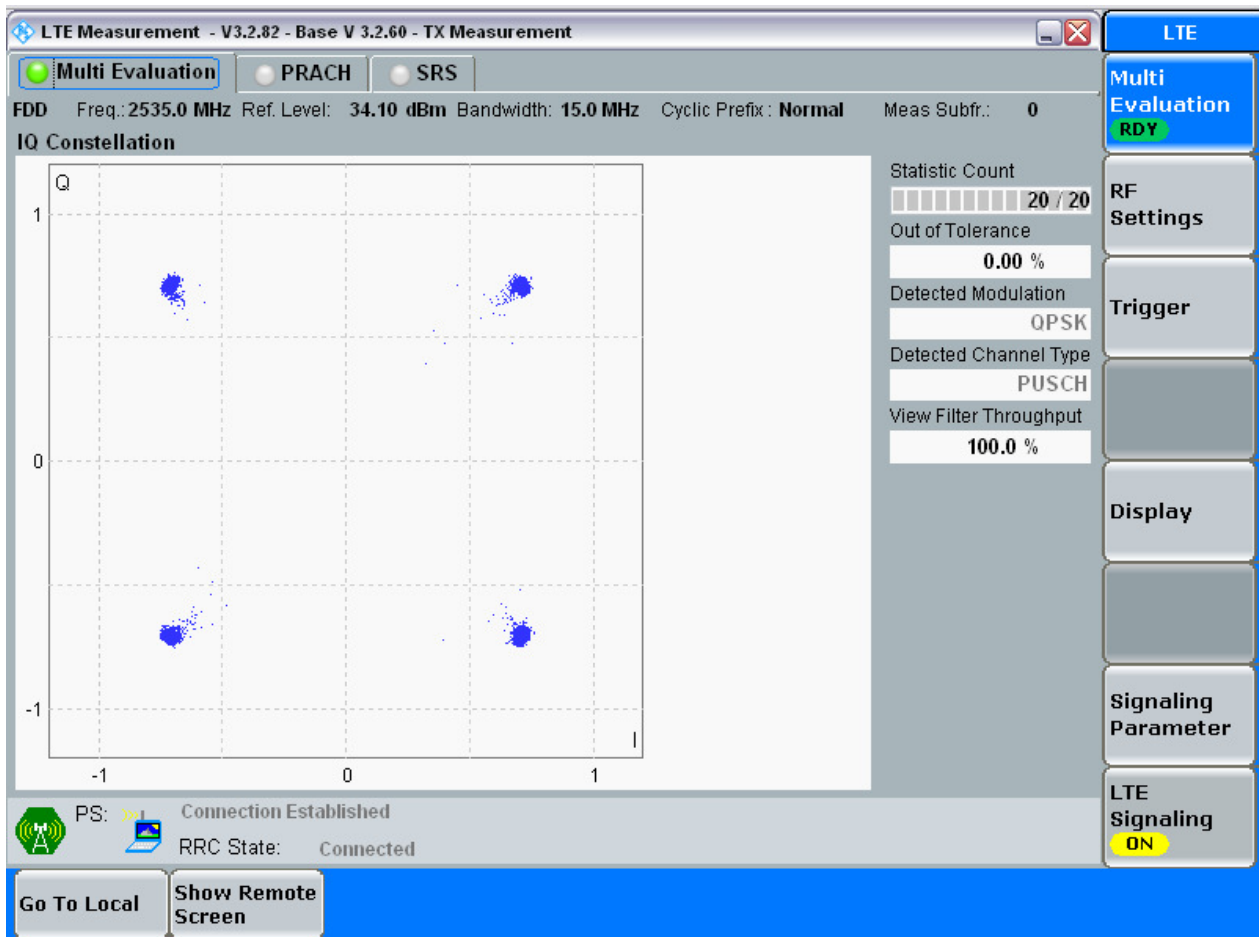
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

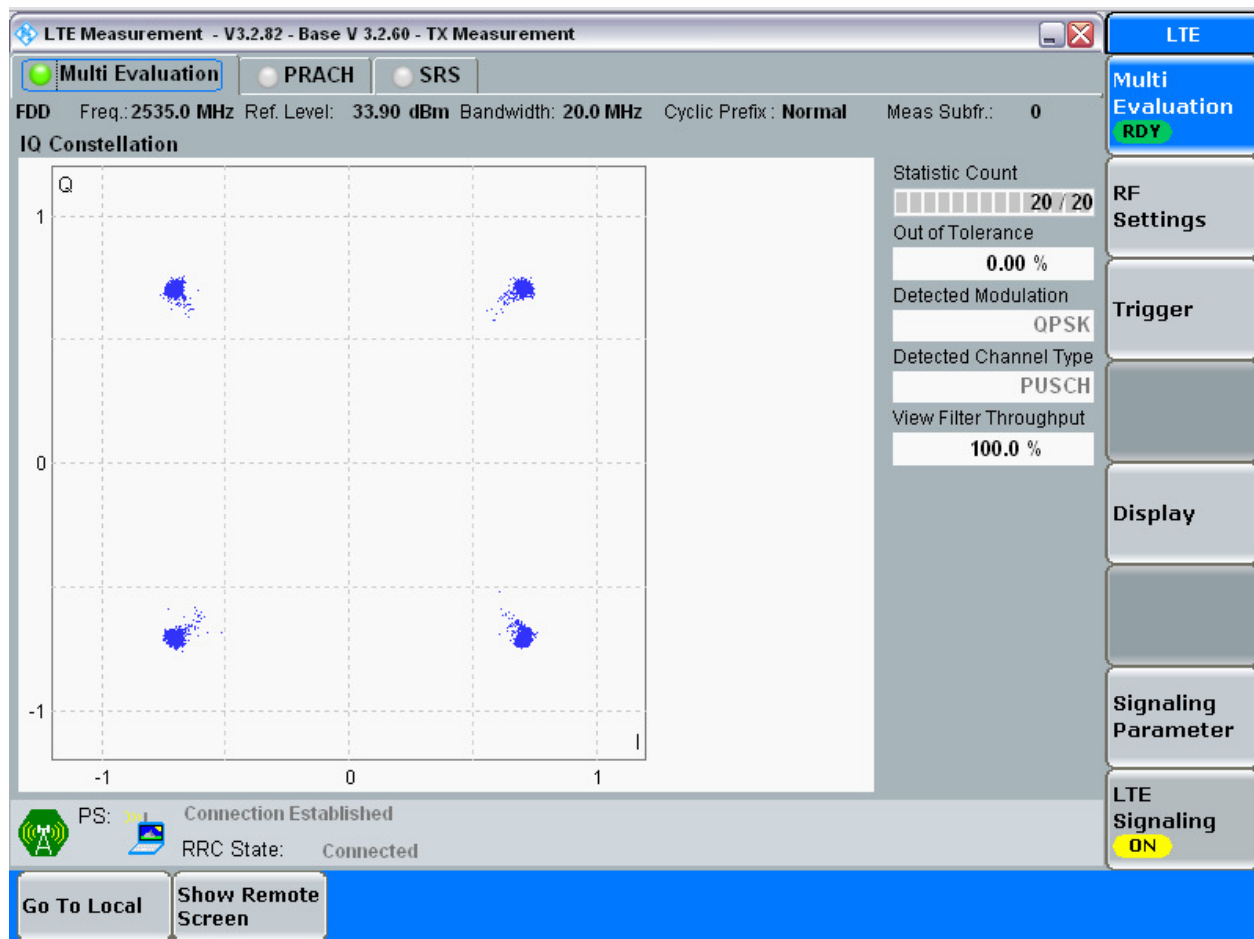
3.1.1.1.3.1.1 Test RB = RB75#0



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

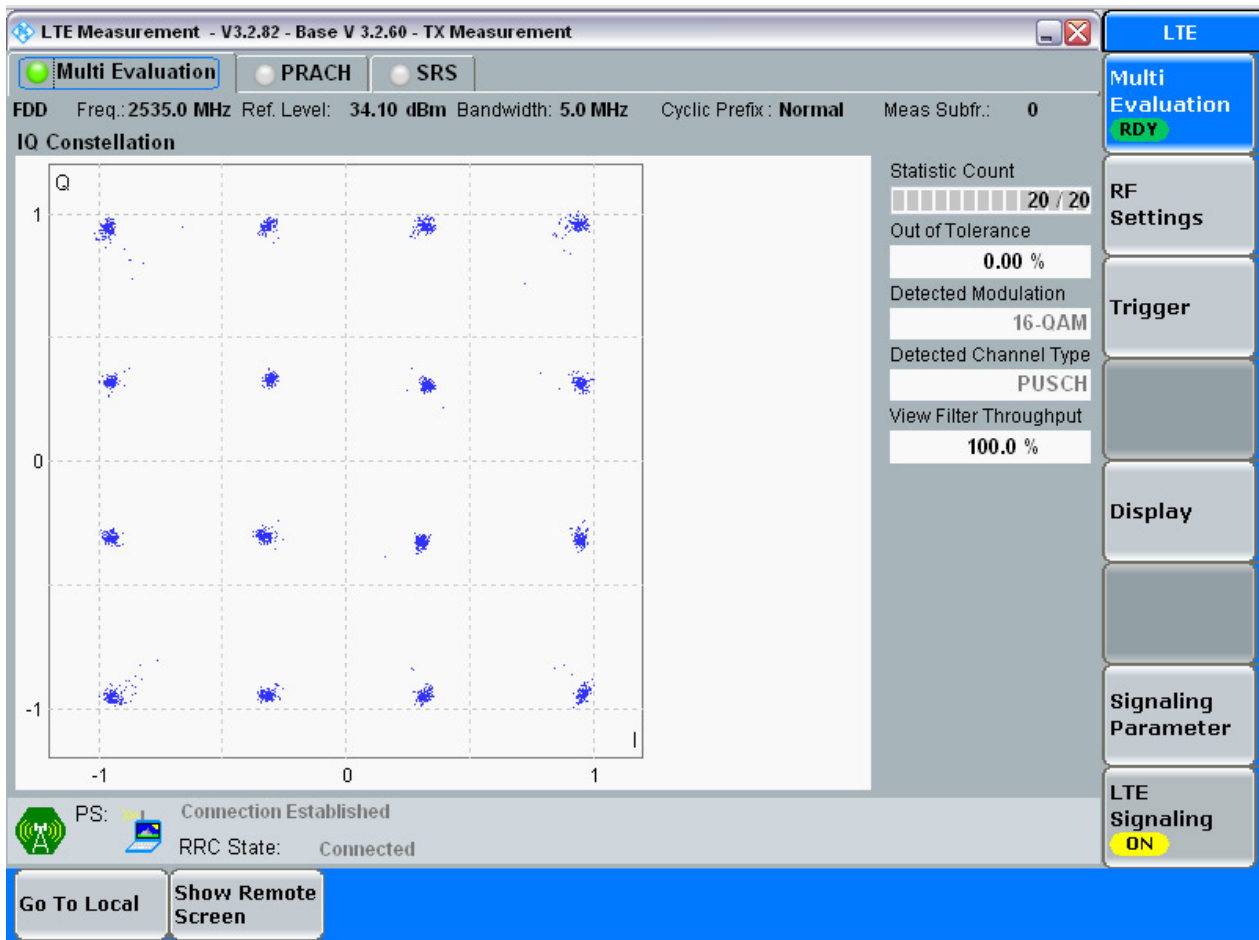


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

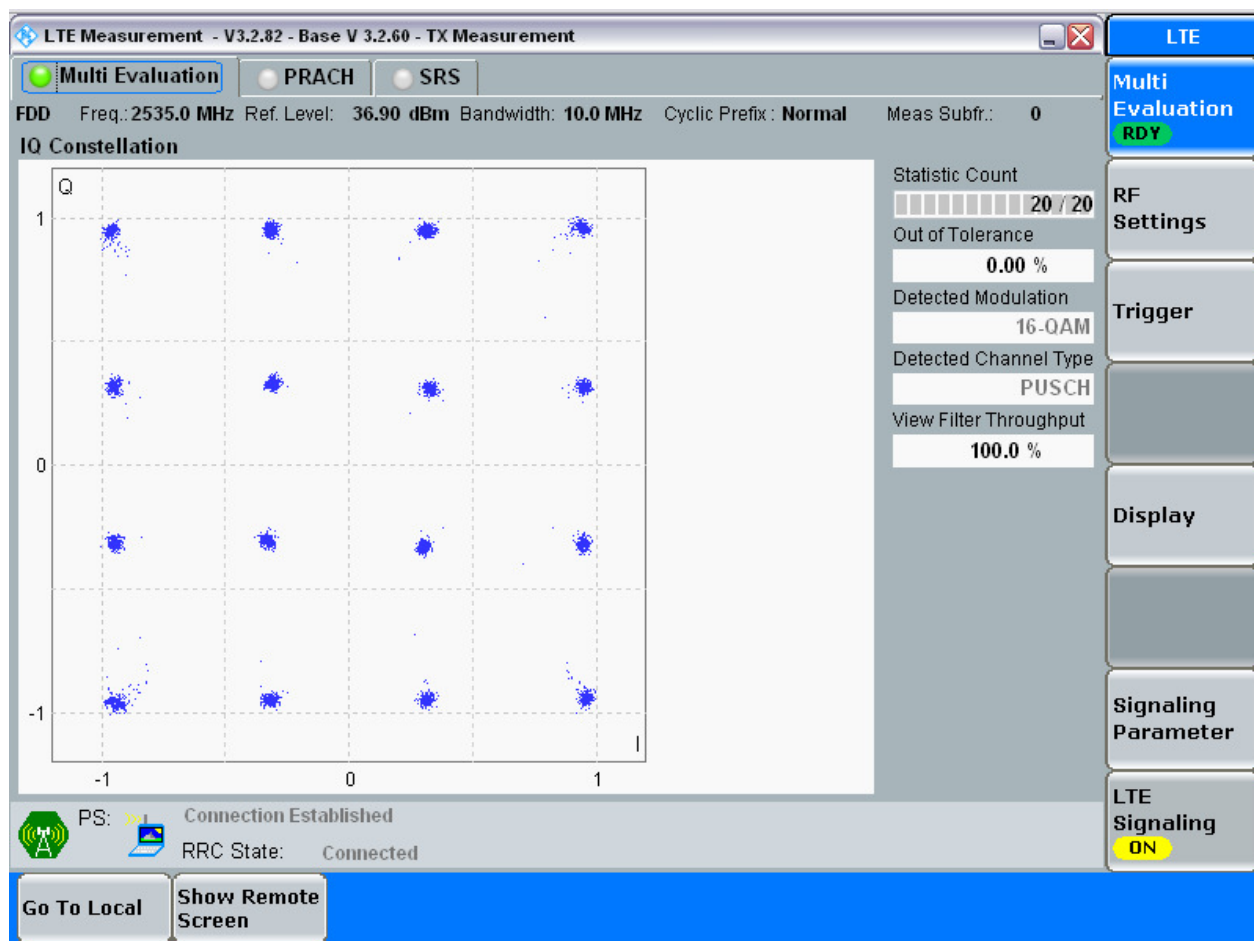
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

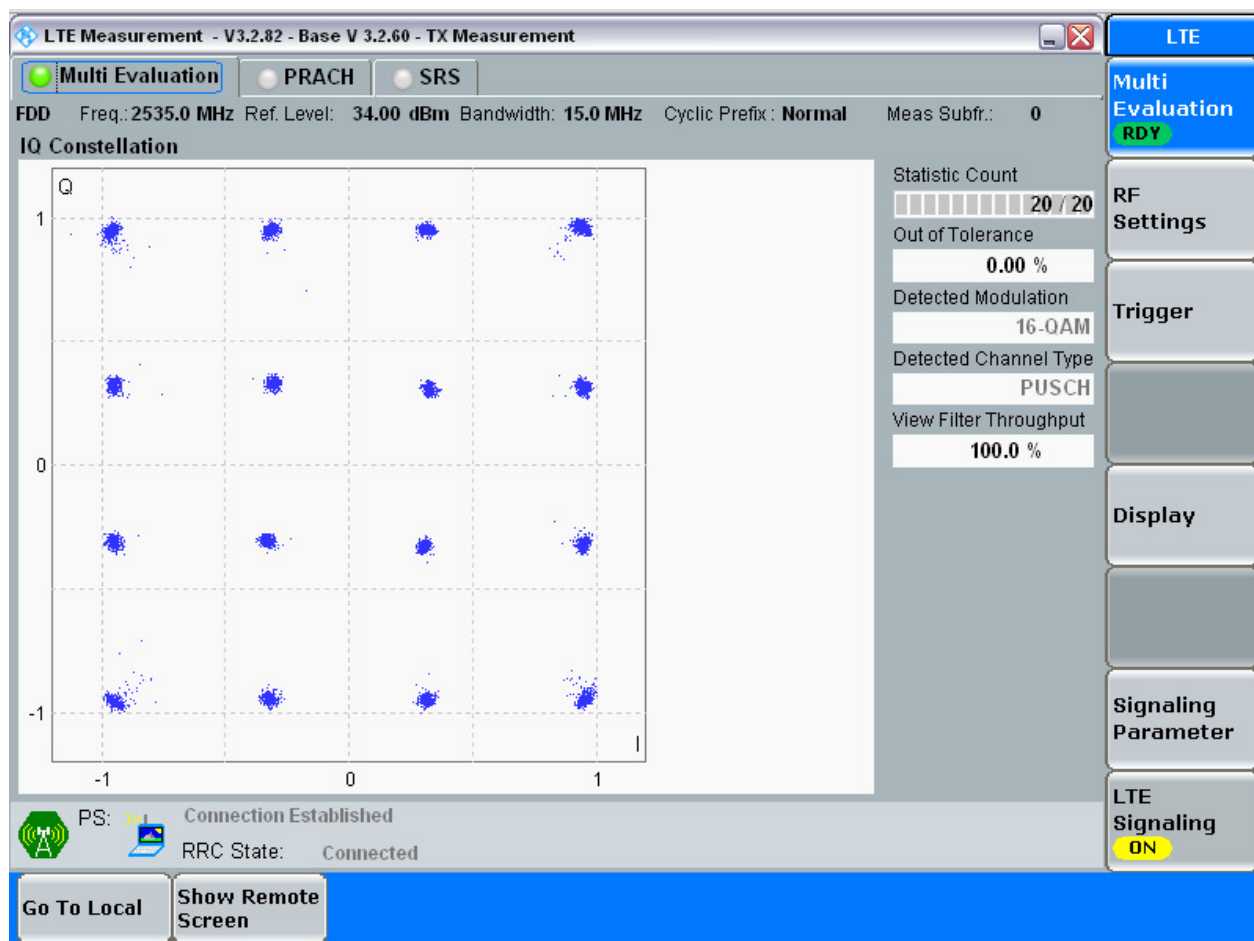
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

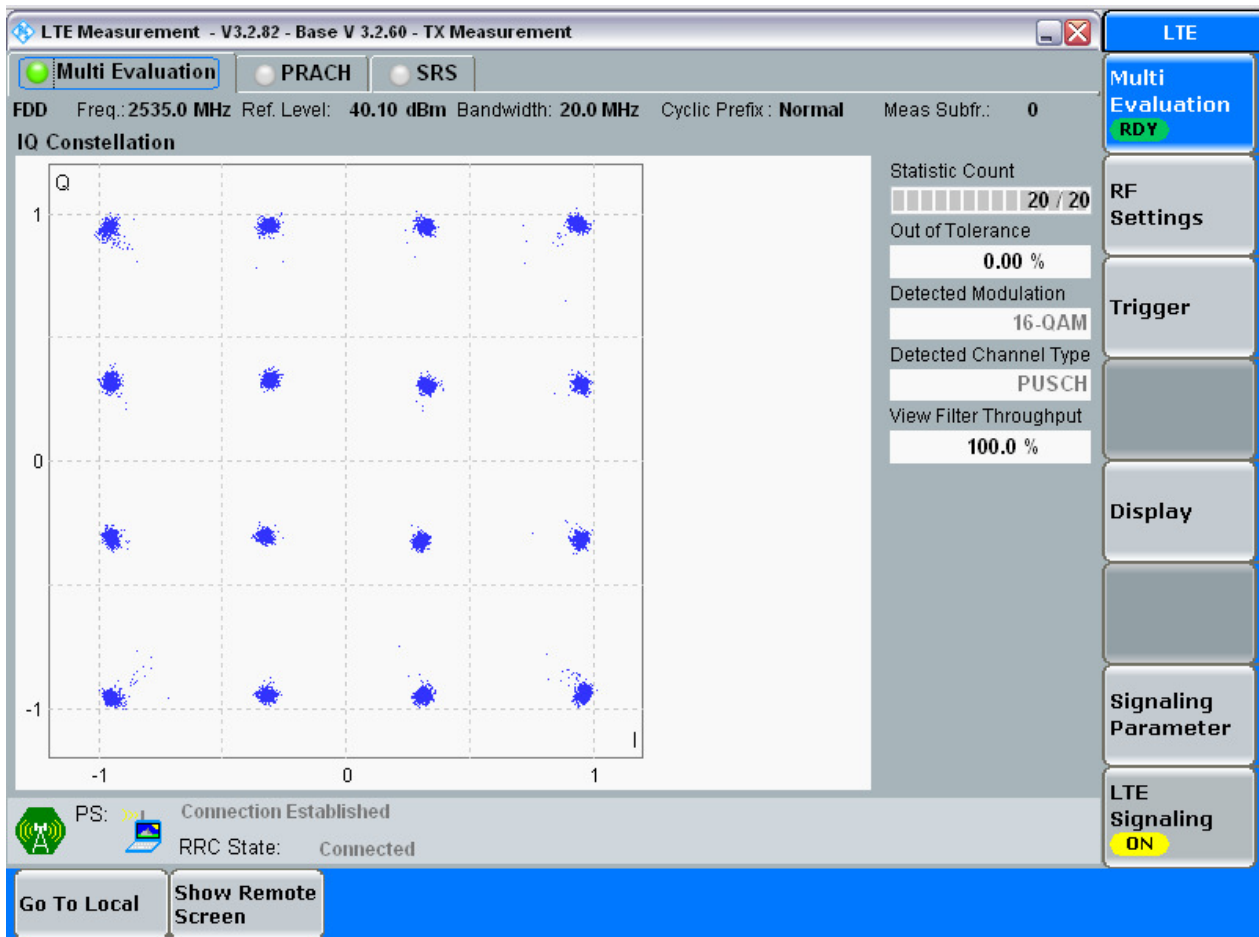
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.51	4.92	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.50	4.90	Pass
		10	LCH	RB50#0	9.00	9.65	Pass
			MCH	RB50#0	9.00	9.68	Pass
			HCH	RB50#0	8.99	9.63	Pass
		15	LCH	RB75#0	13.48	14.41	Pass
			MCH	RB75#0	13.49	14.35	Pass
			HCH	RB75#0	13.47	14.29	Pass
		20	LCH	RB100#0	17.95	18.98	Pass
			MCH	RB100#0	17.94	18.98	Pass
			HCH	RB100#0	17.93	18.96	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.90	Pass
			MCH	RB25#0	4.51	4.89	Pass
			HCH	RB25#0	4.51	4.90	Pass
		10	LCH	RB50#0	9.00	9.71	Pass
			MCH	RB50#0	9.00	9.64	Pass
			HCH	RB50#0	8.98	9.60	Pass
		15	LCH	RB75#0	13.50	14.33	Pass
			MCH	RB75#0	13.48	14.30	Pass
			HCH	RB75#0	13.46	14.27	Pass
		20	LCH	RB100#0	17.97	19.02	Pass
			MCH	RB100#0	17.94	18.96	Pass
			HCH	RB100#0	17.94	18.97	Pass

Part II - Test Plots

4.1 For LTE

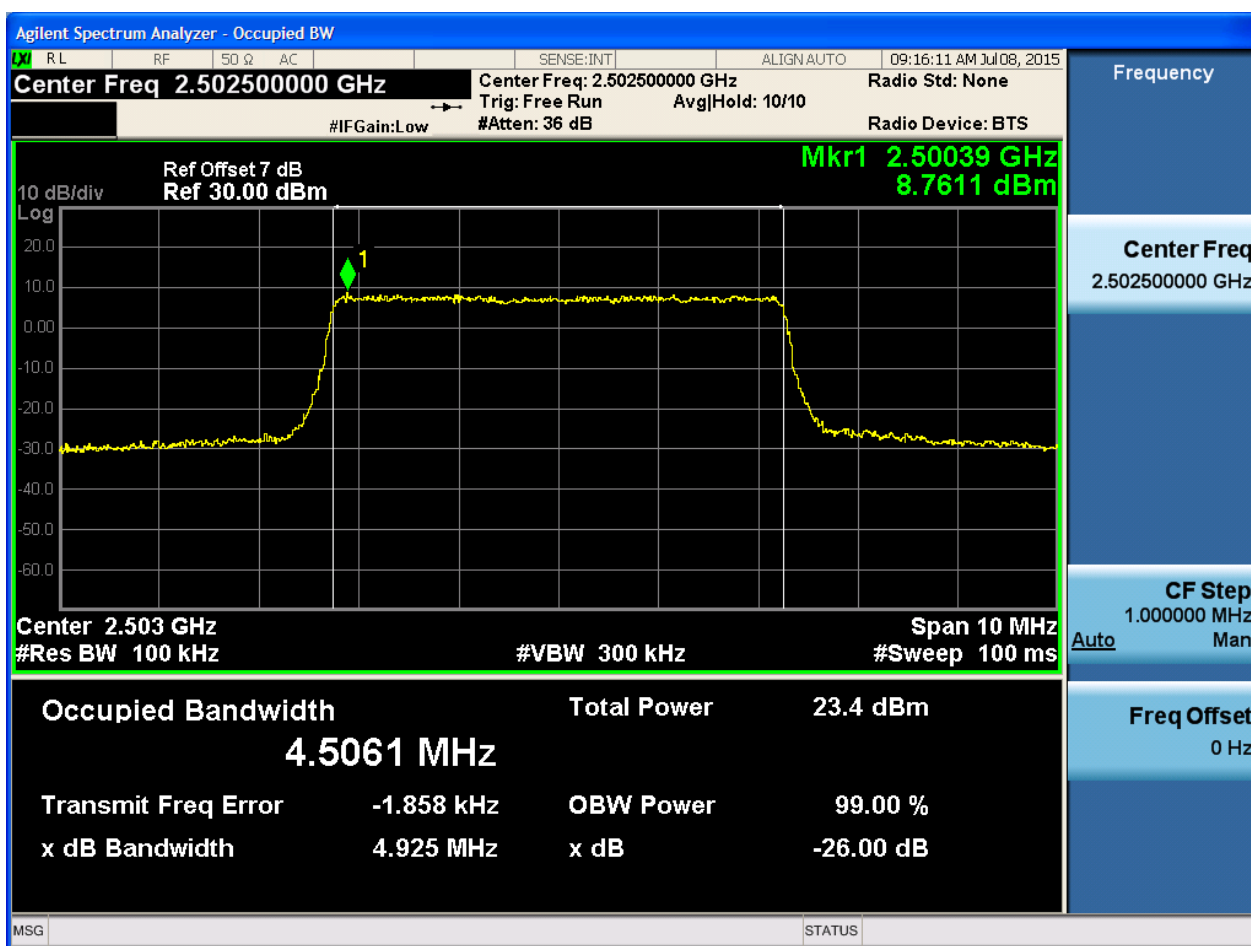
4.1.1 Test Band = BAND7

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

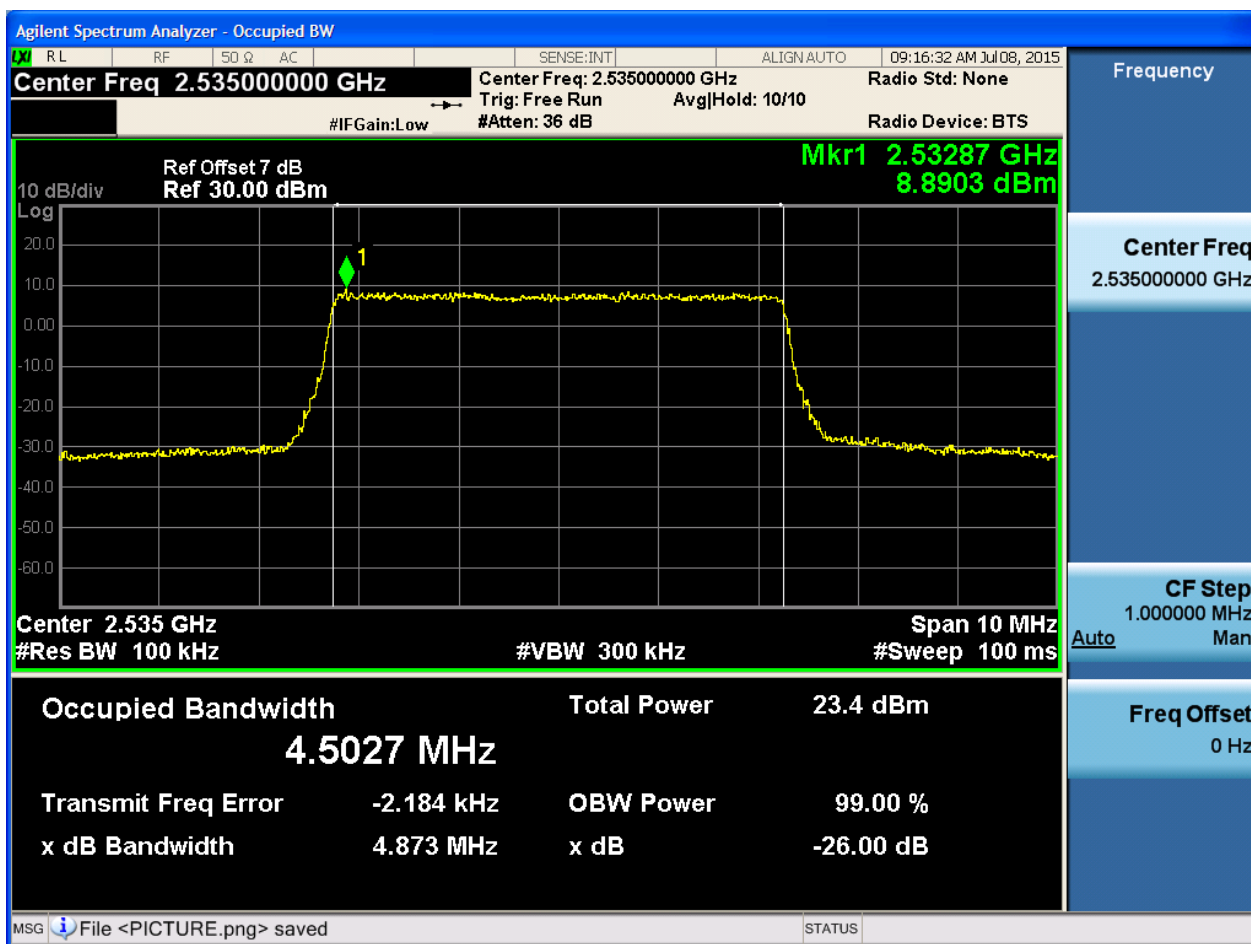
4.1.1.1.1.1.1 Test RB = RB25#0





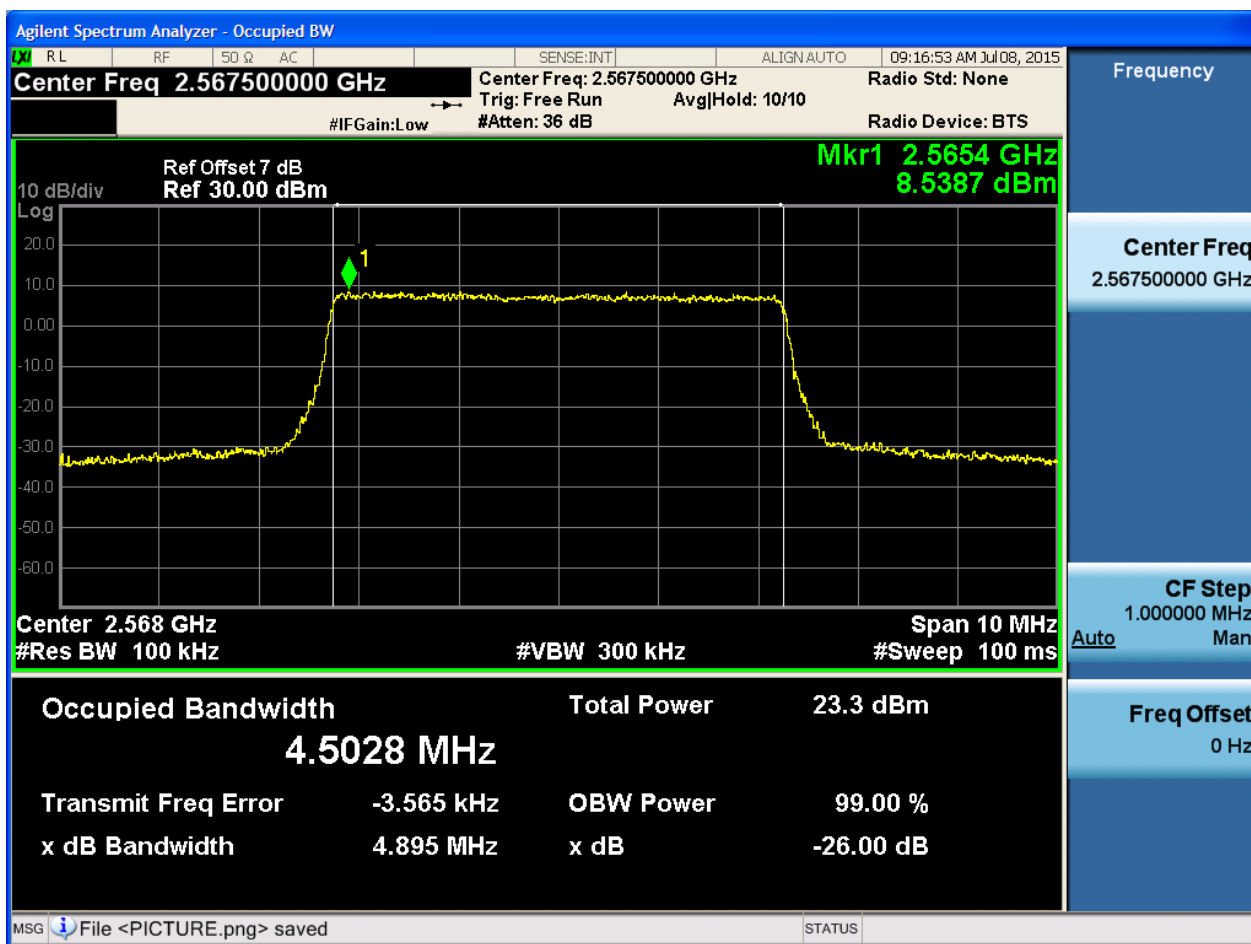
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



4.1.1.1.1.3 Test Channel = HCH

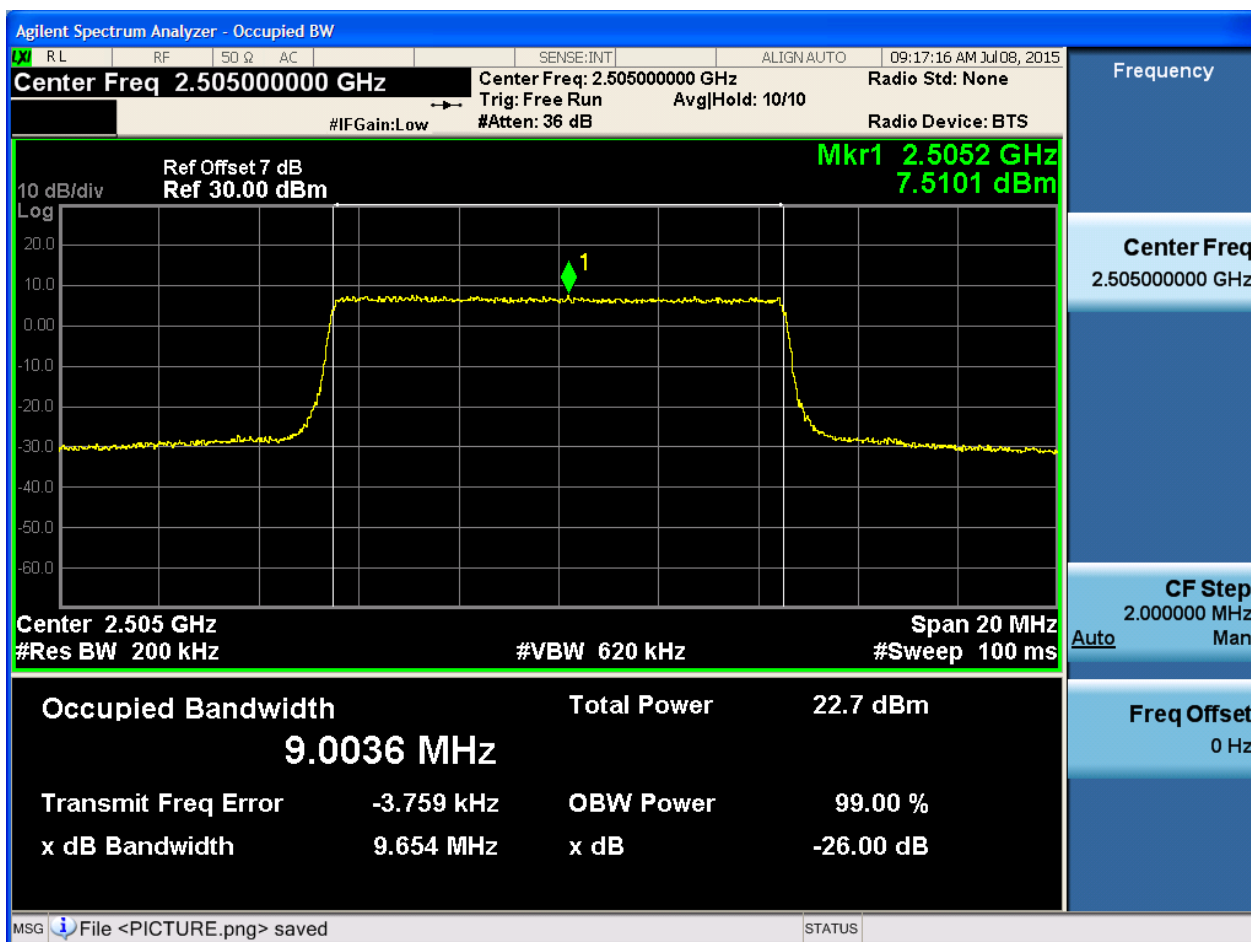
4.1.1.1.1.3.1 Test RB = RB25#0



4.1.1.1.2 Test Bandwidth = 10

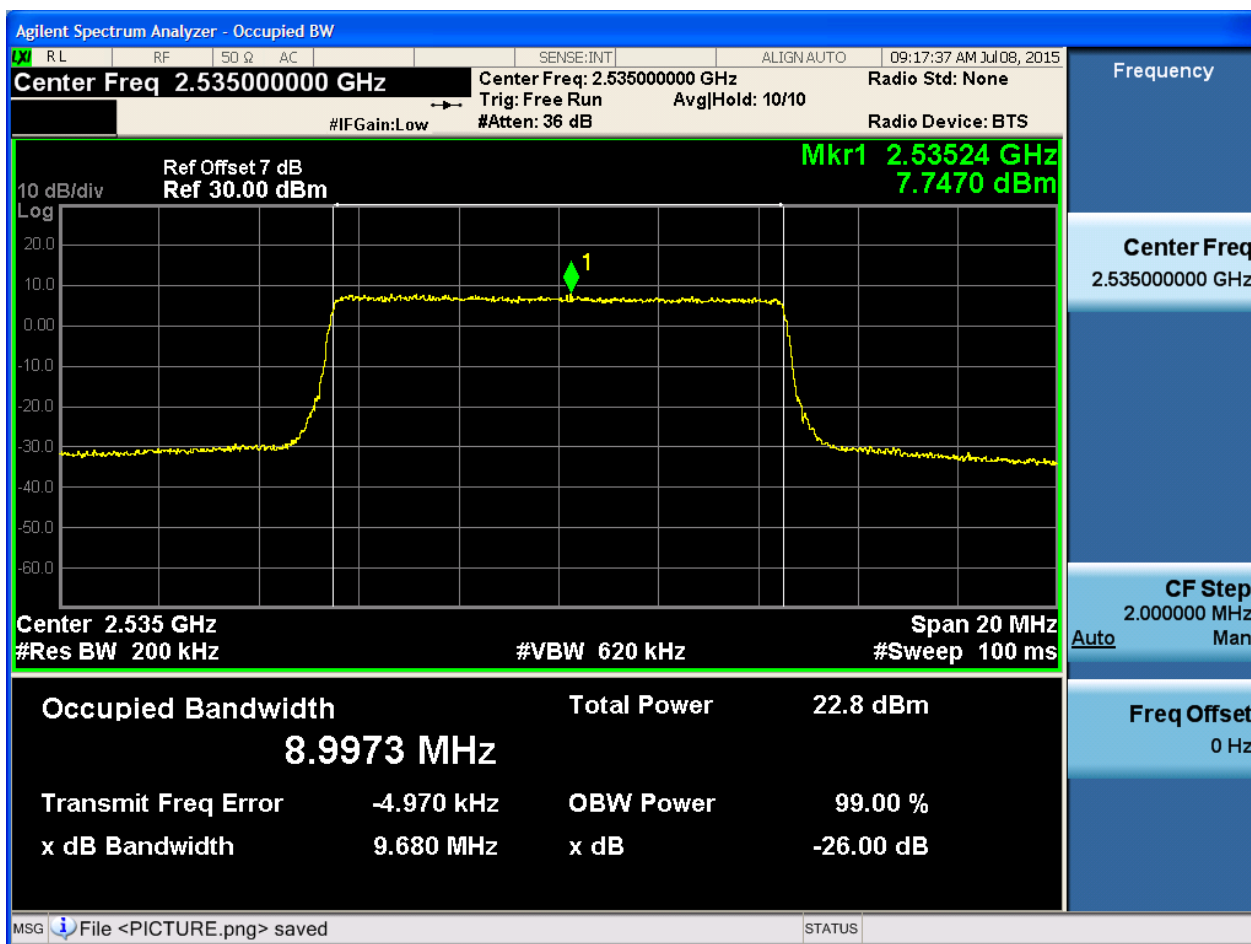
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



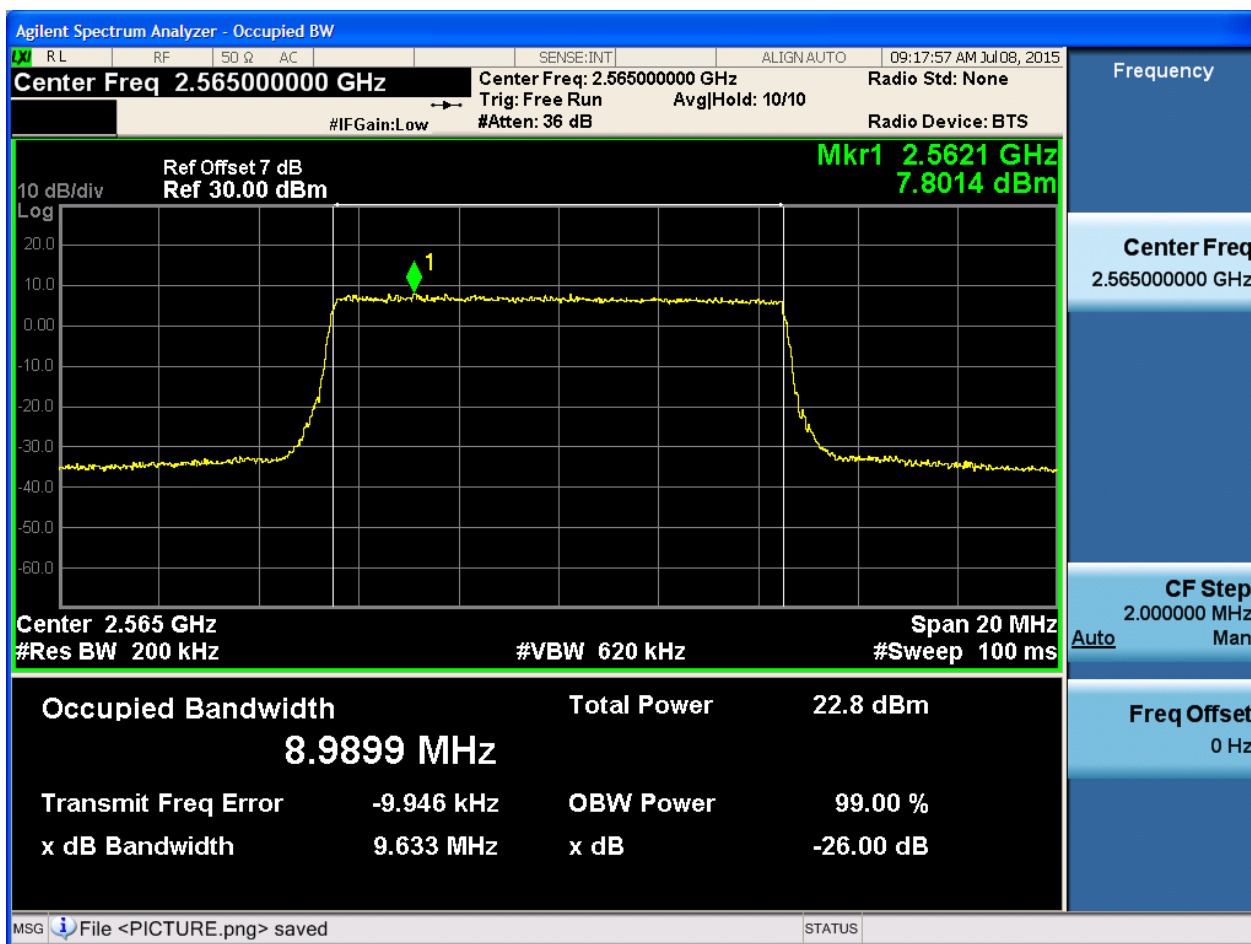
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

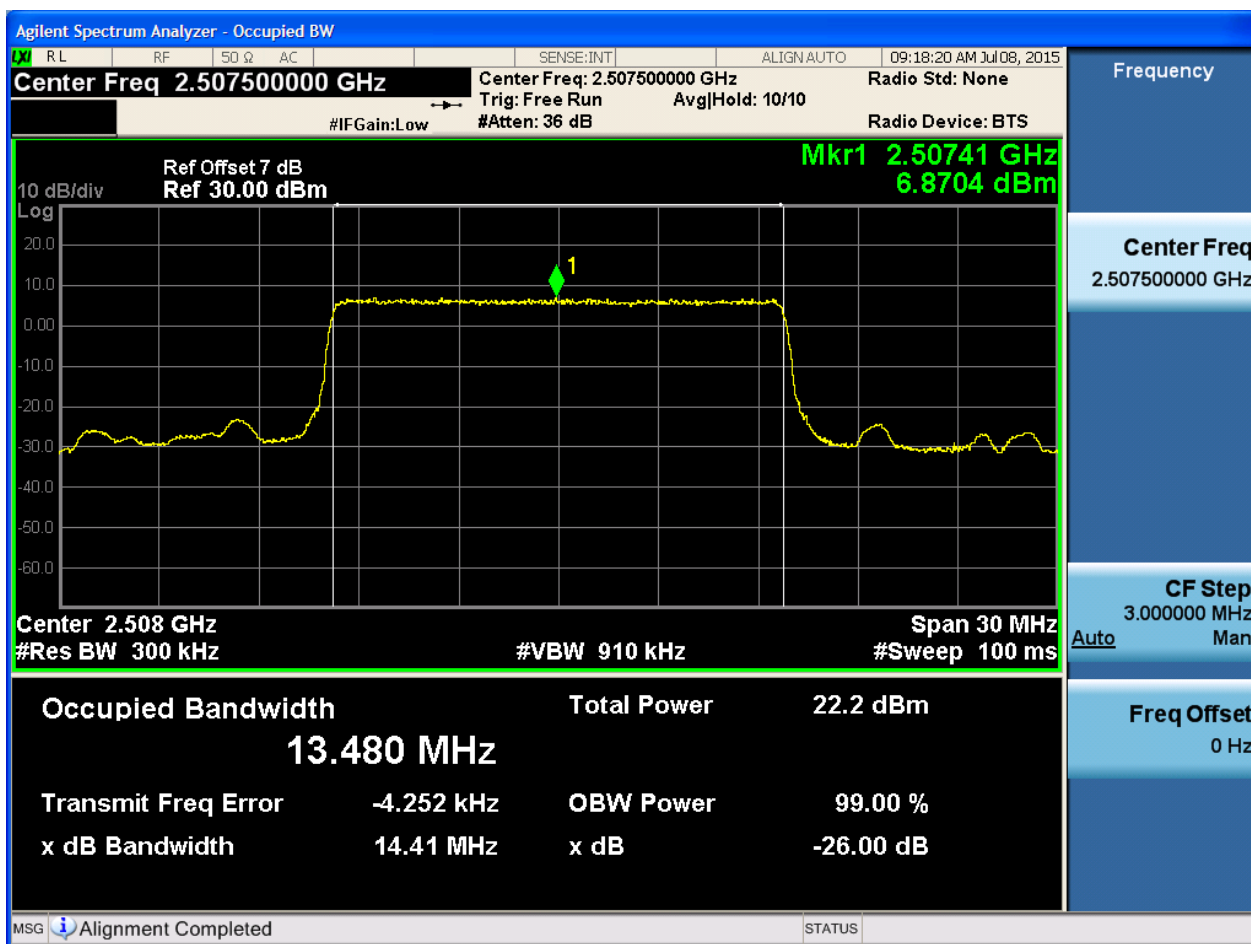
4.1.1.1.2.3.1 Test RB = RB50#0



4.1.1.1.3 Test Bandwidth = 15

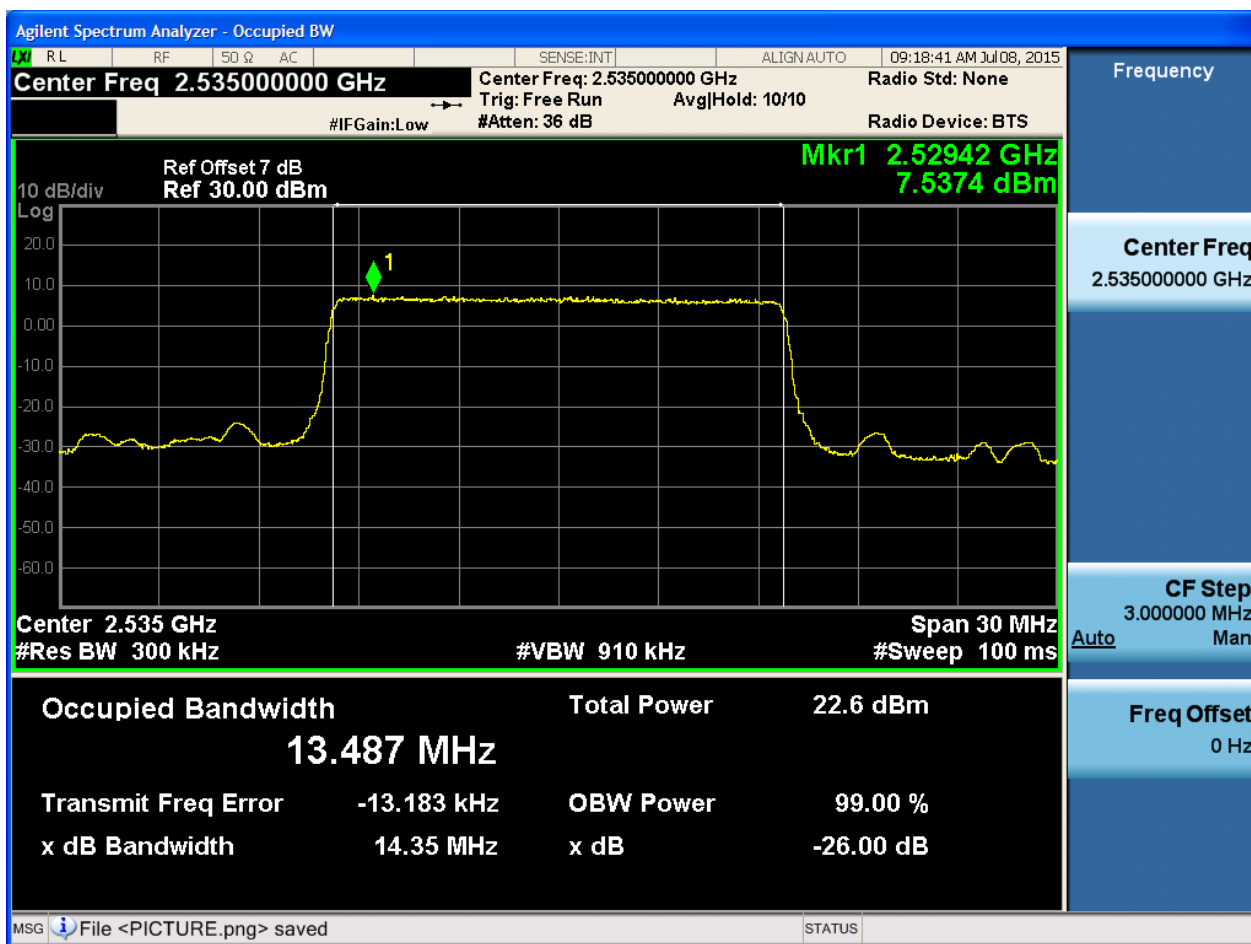
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



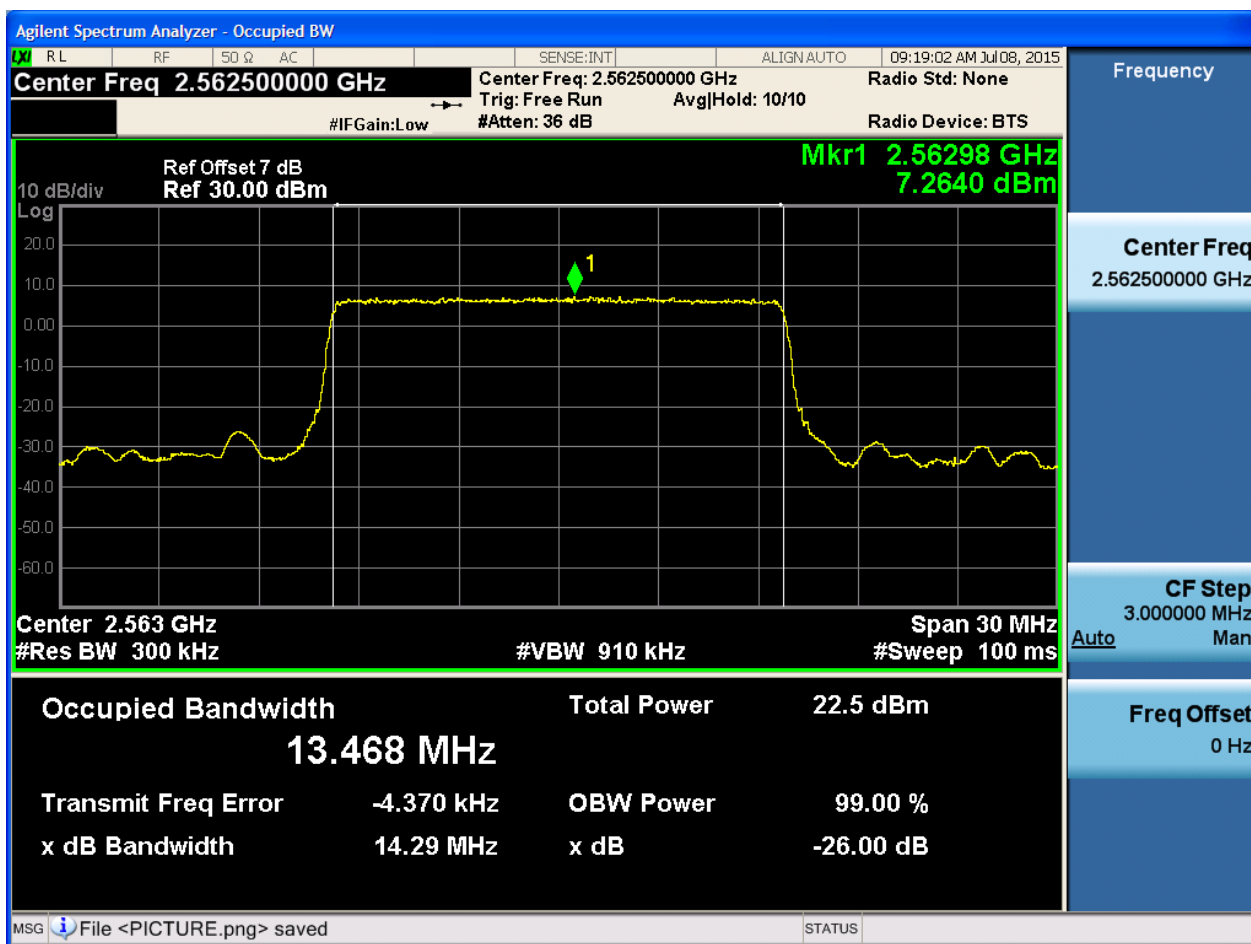
4.1.1.1.3.2 Test Channel = MCH

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

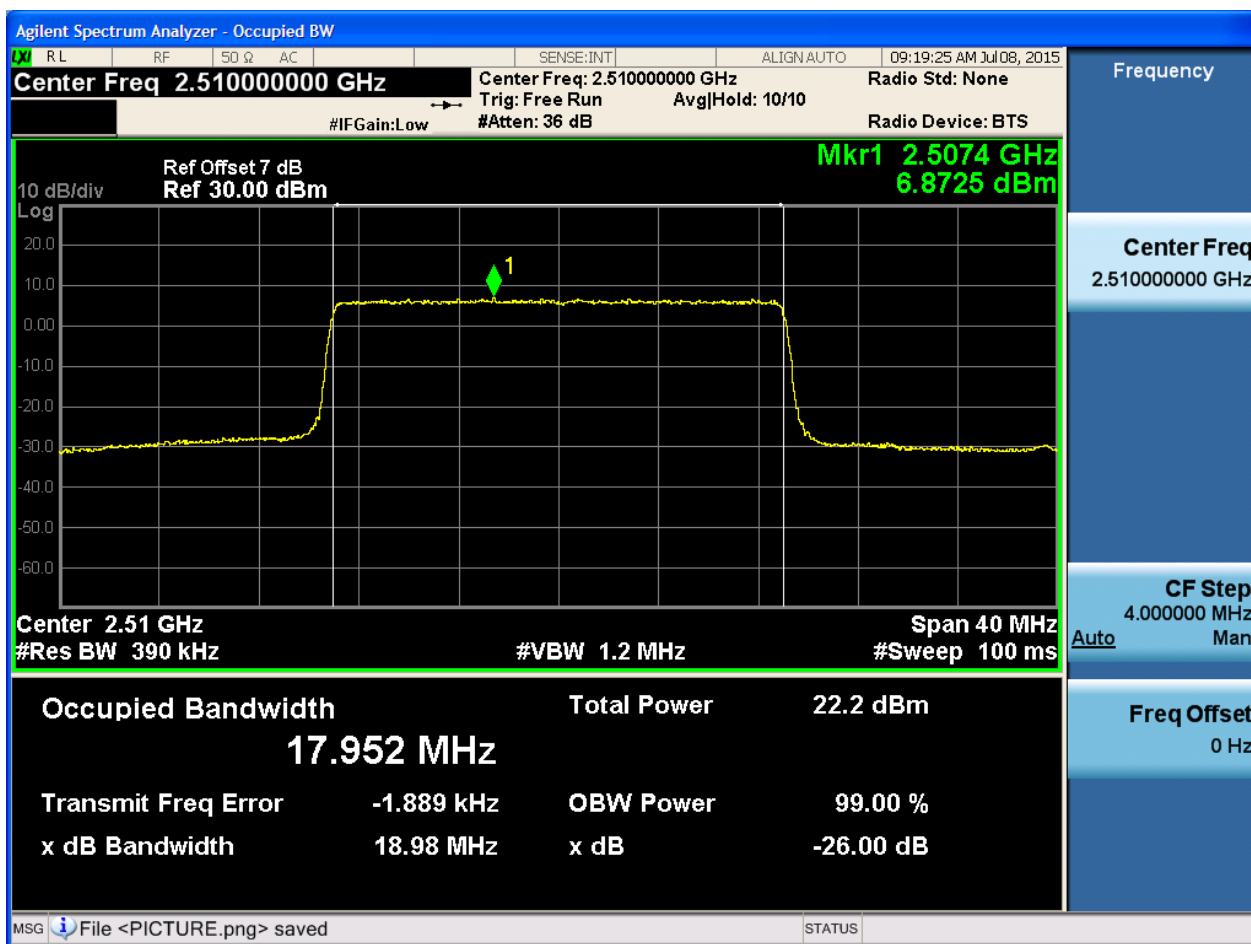




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

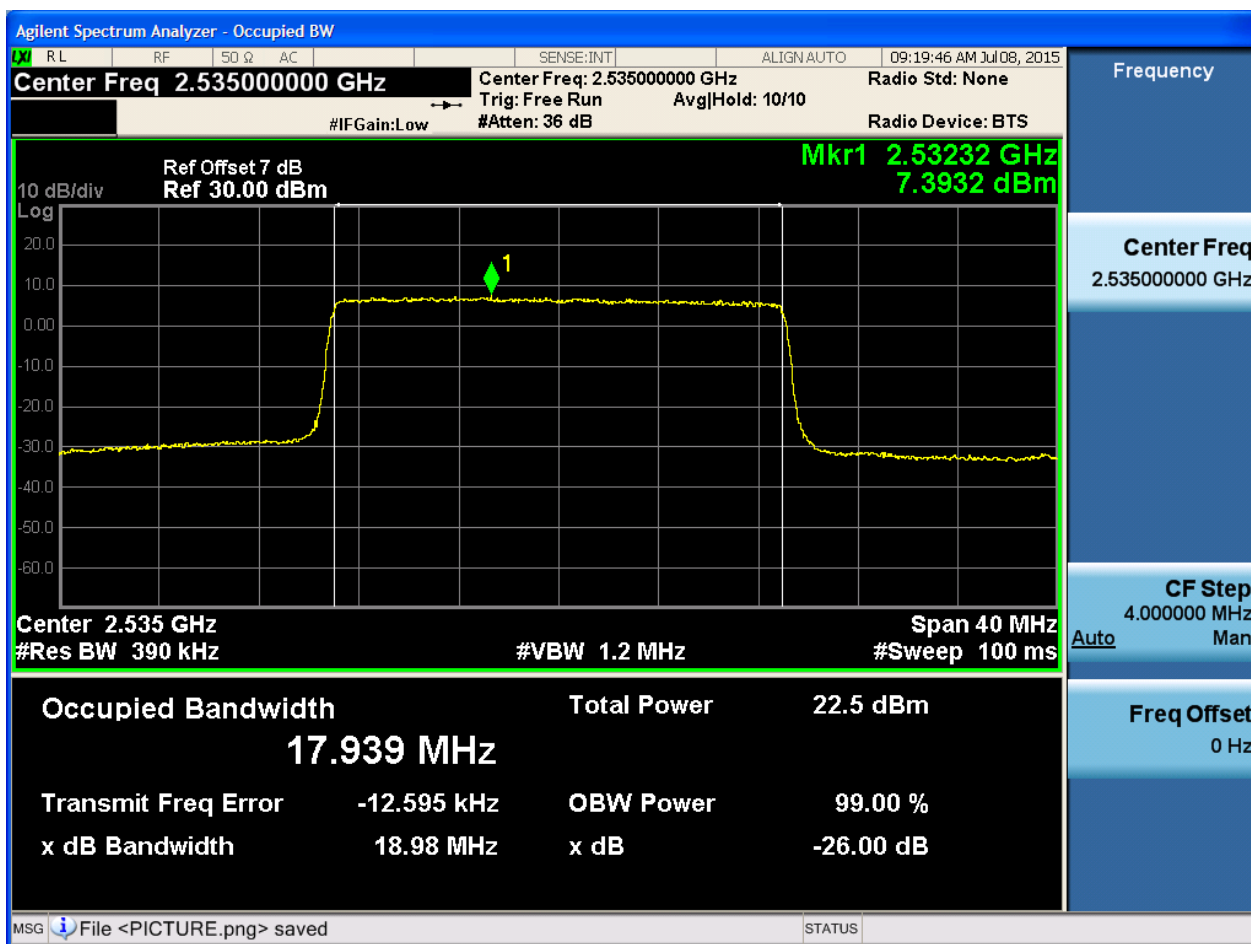
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

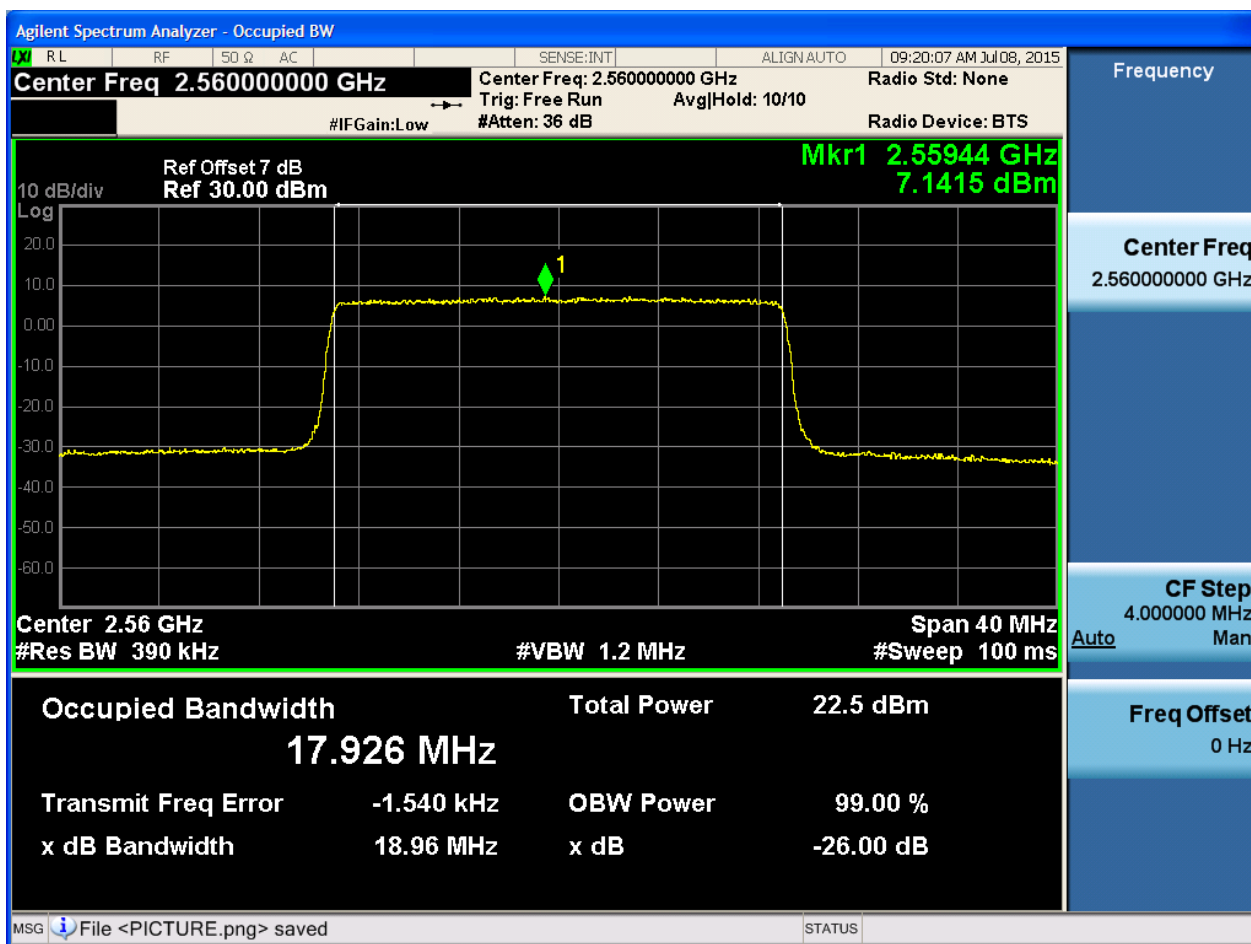
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



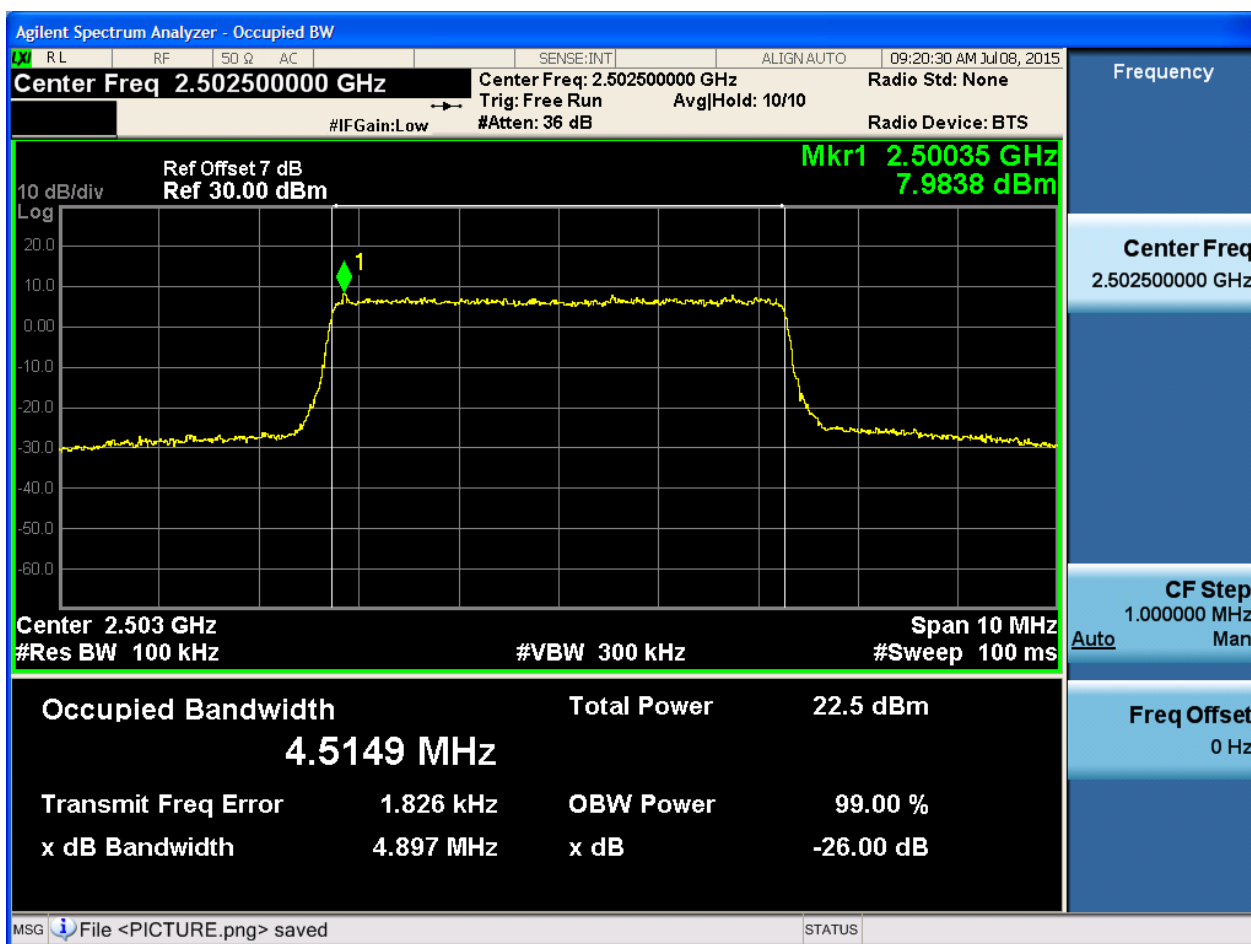


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

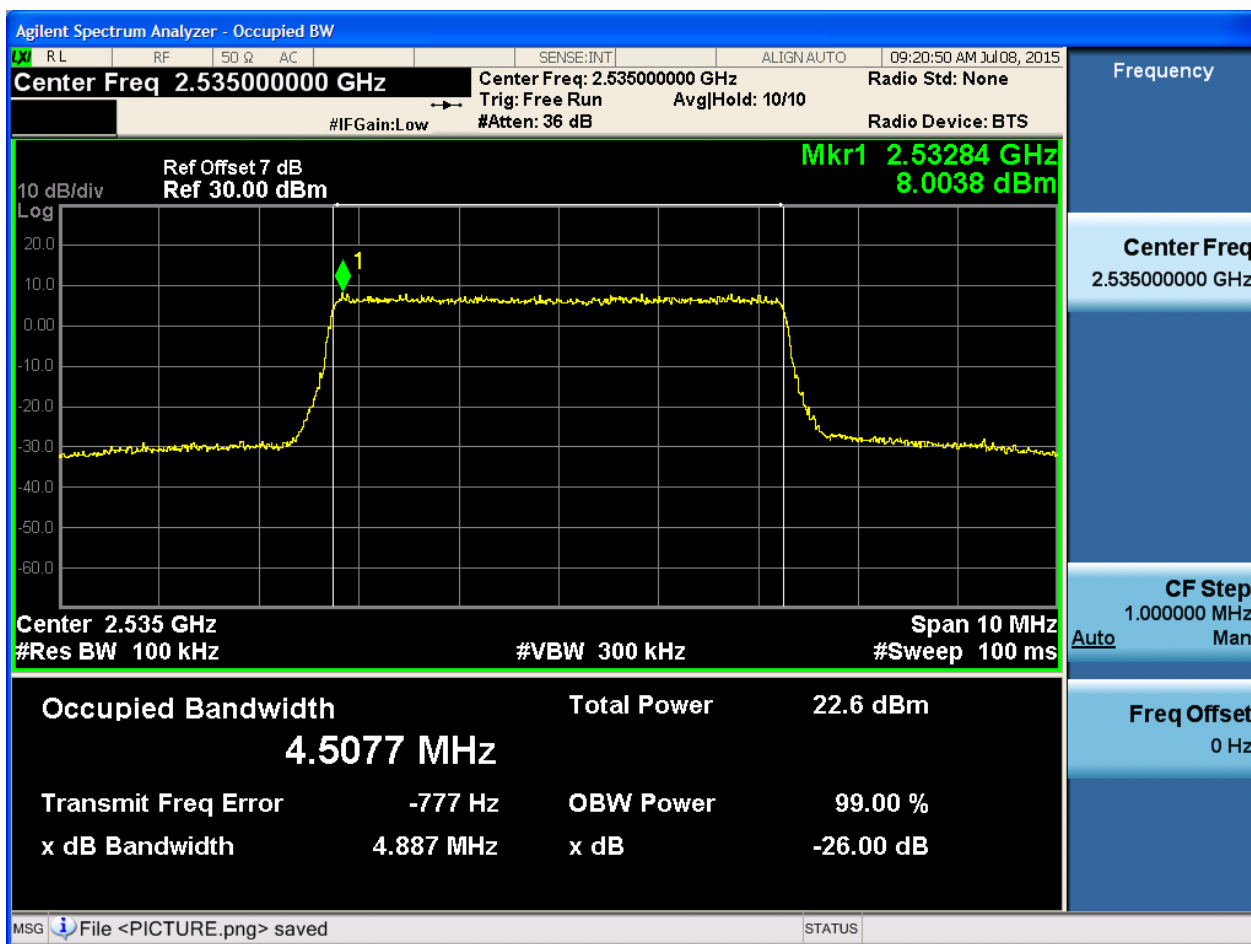
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



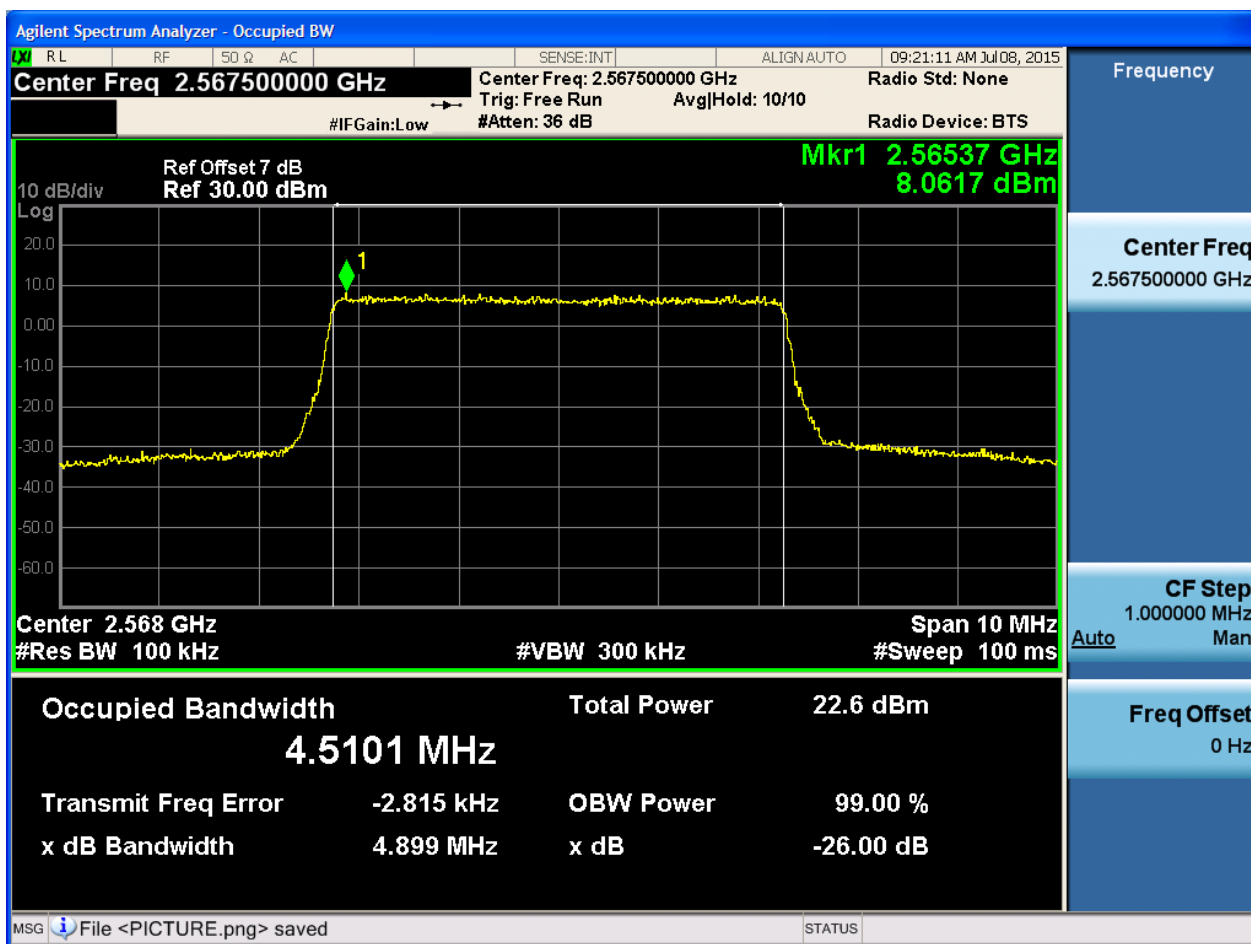
4.1.1.2.1.2 Test Channel = MCH

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

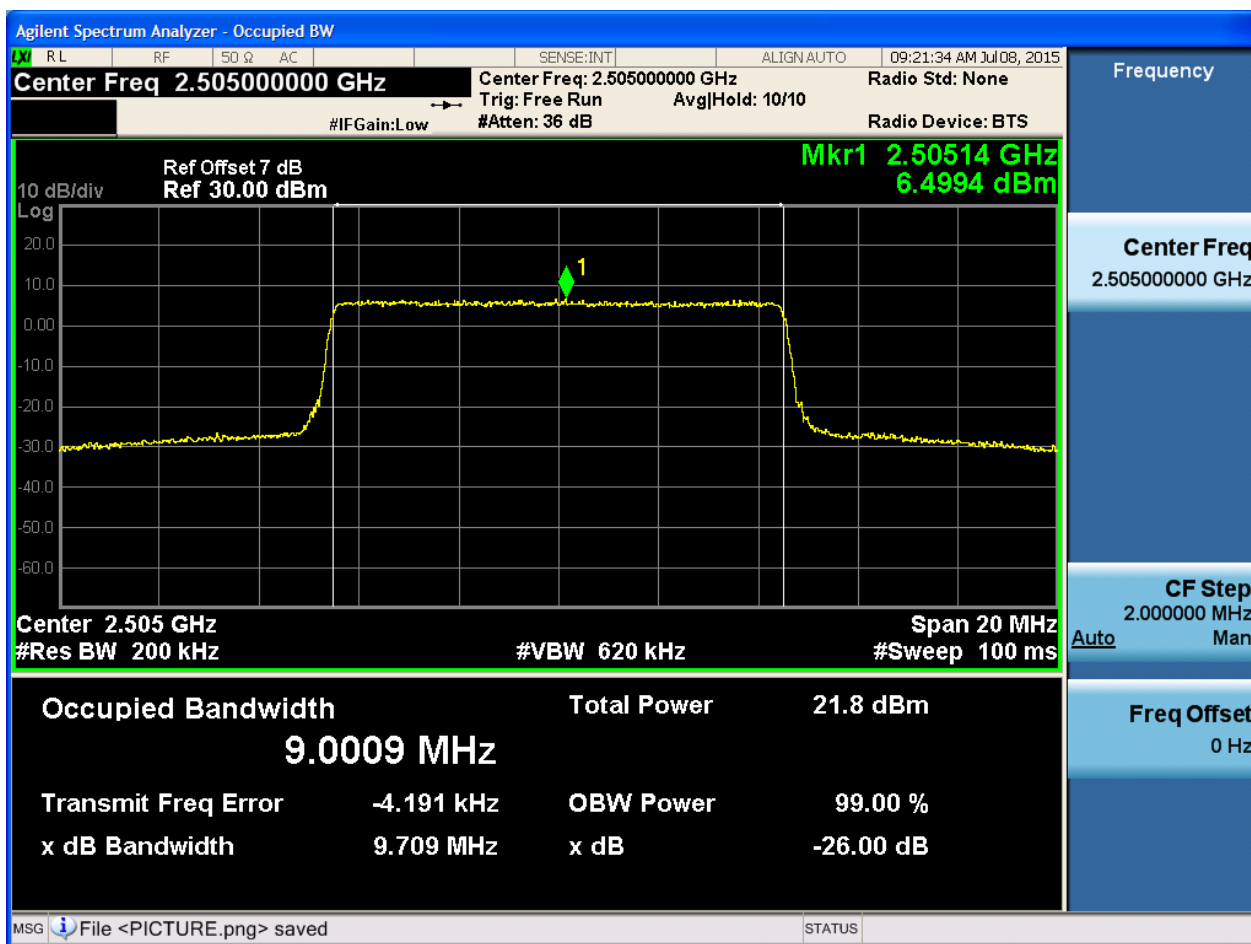




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

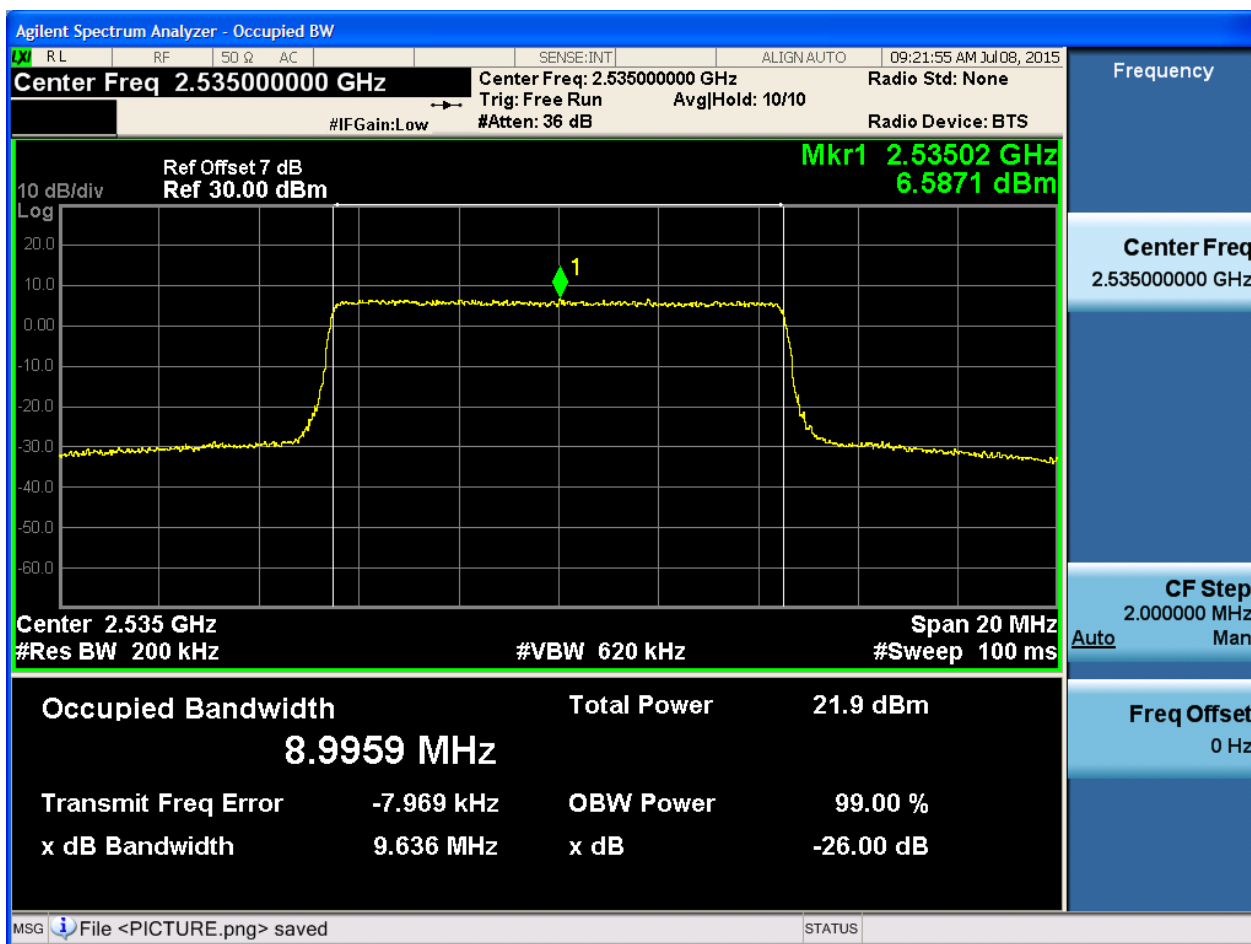
4.1.1.2.2.1.1 Test RB = RB50#0





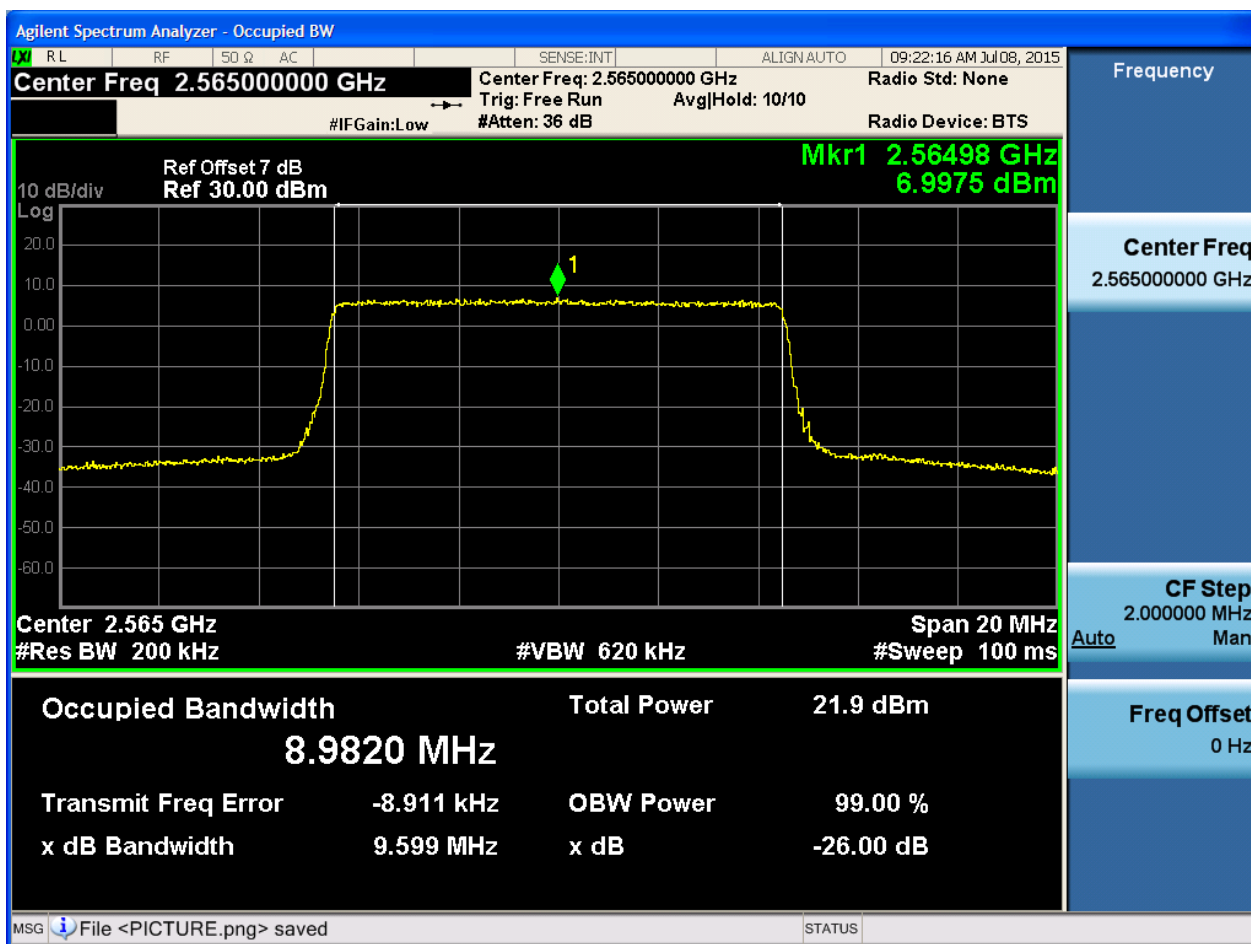
4.1.1.2.2.2 Test Channel = MCH

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

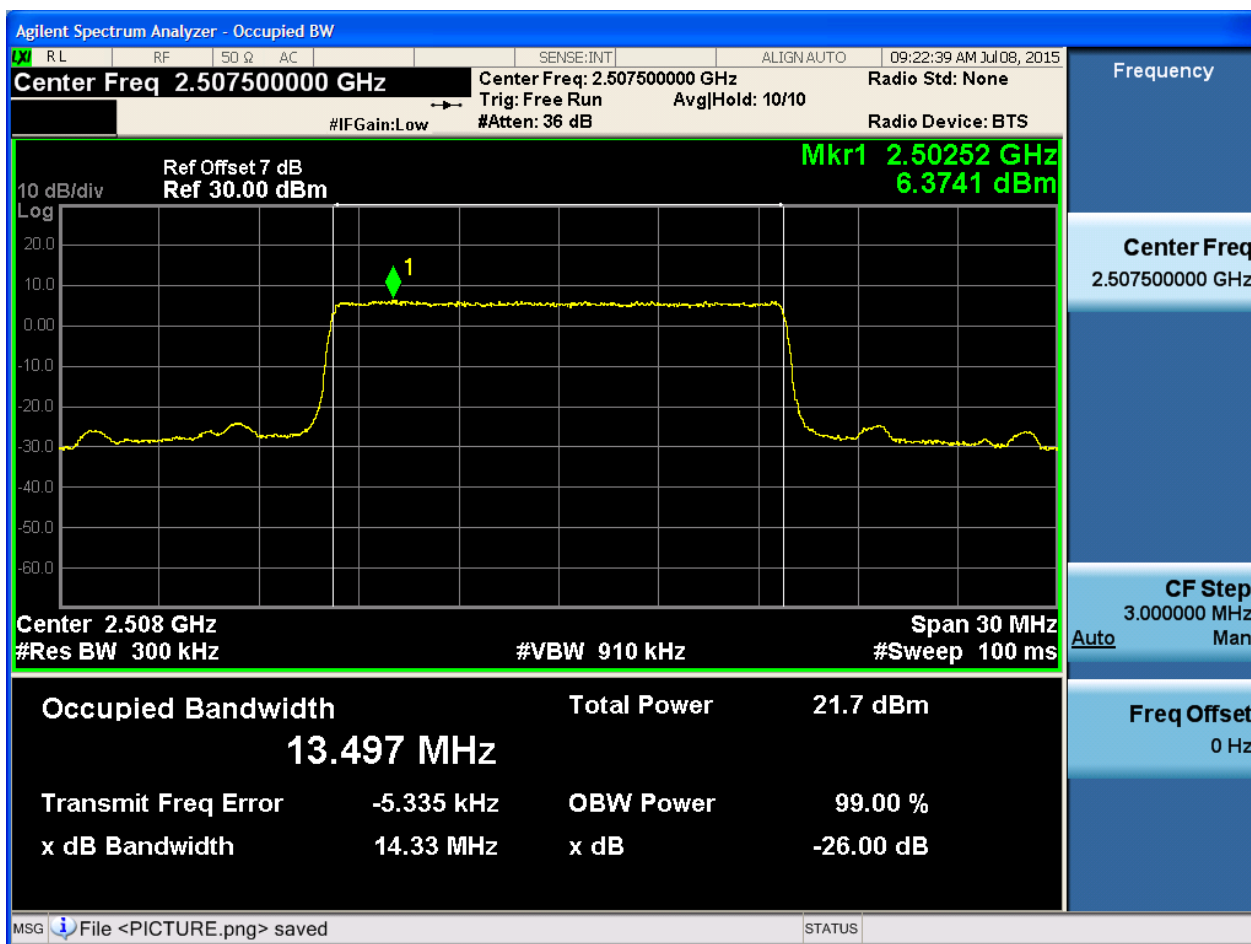




4.1.1.2.3 Test Bandwidth = 15

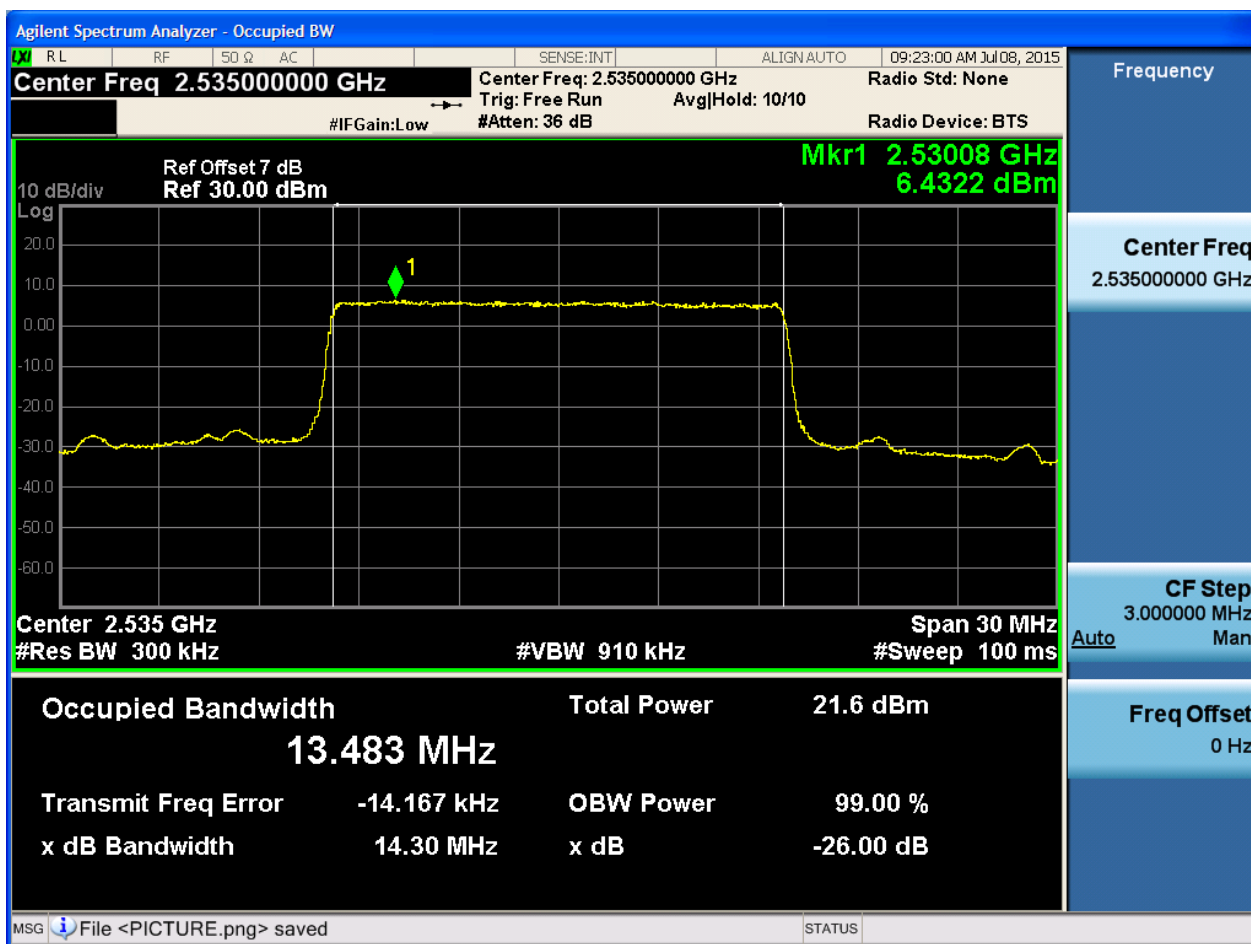
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



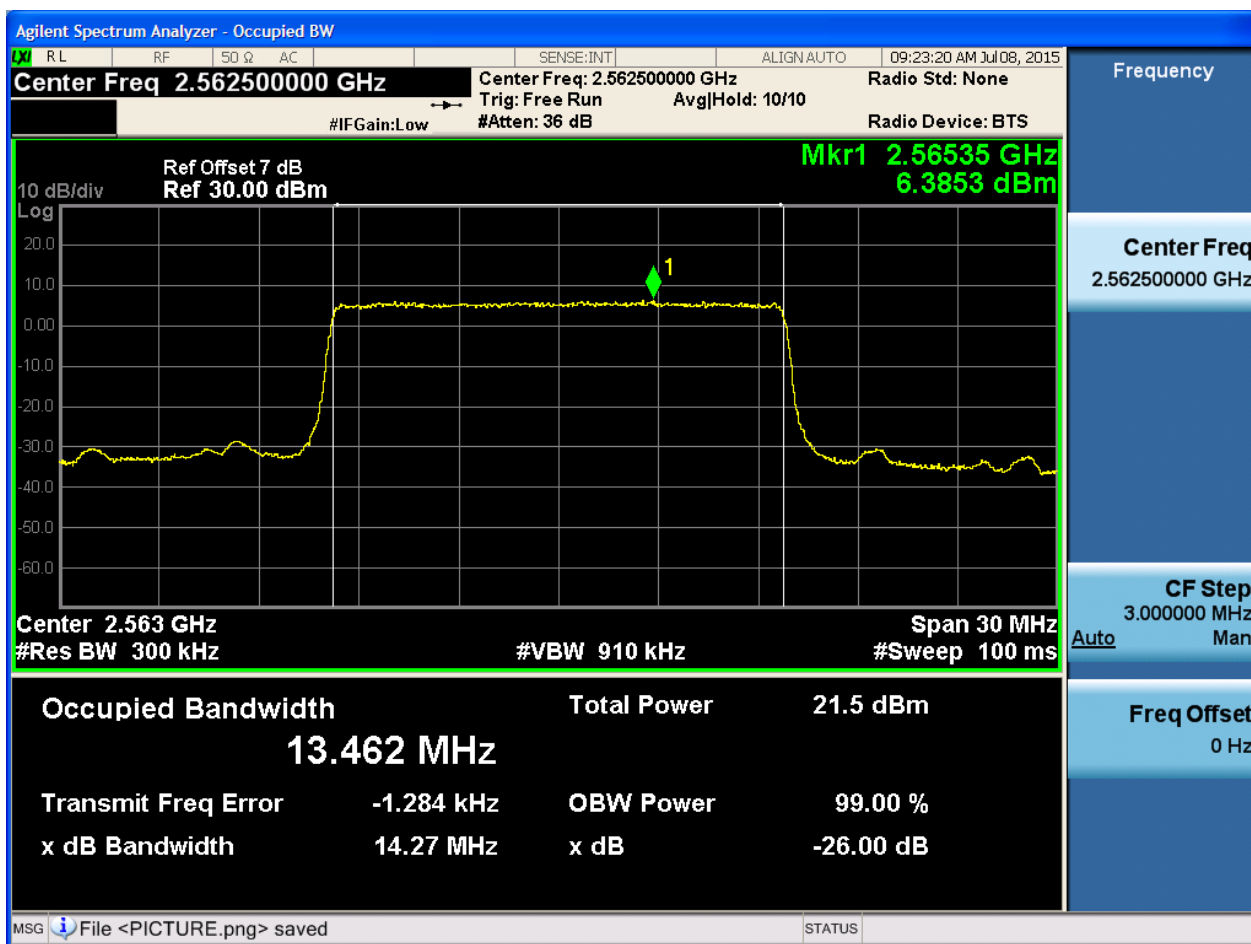
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB75#0



4.1.1.2.3.3 Test Channel = HCH

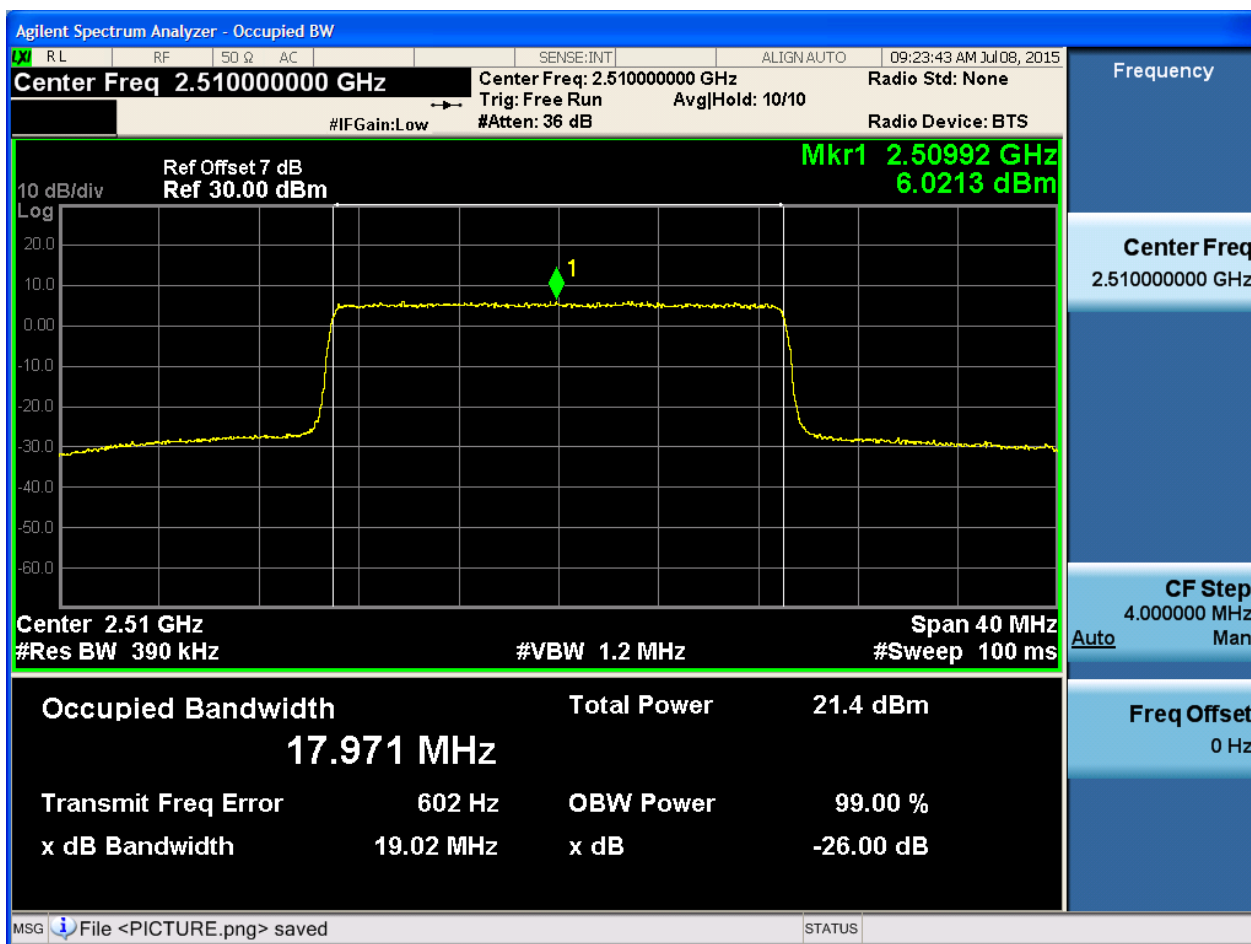
4.1.1.2.3.3.1 Test RB = RB75#0



4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

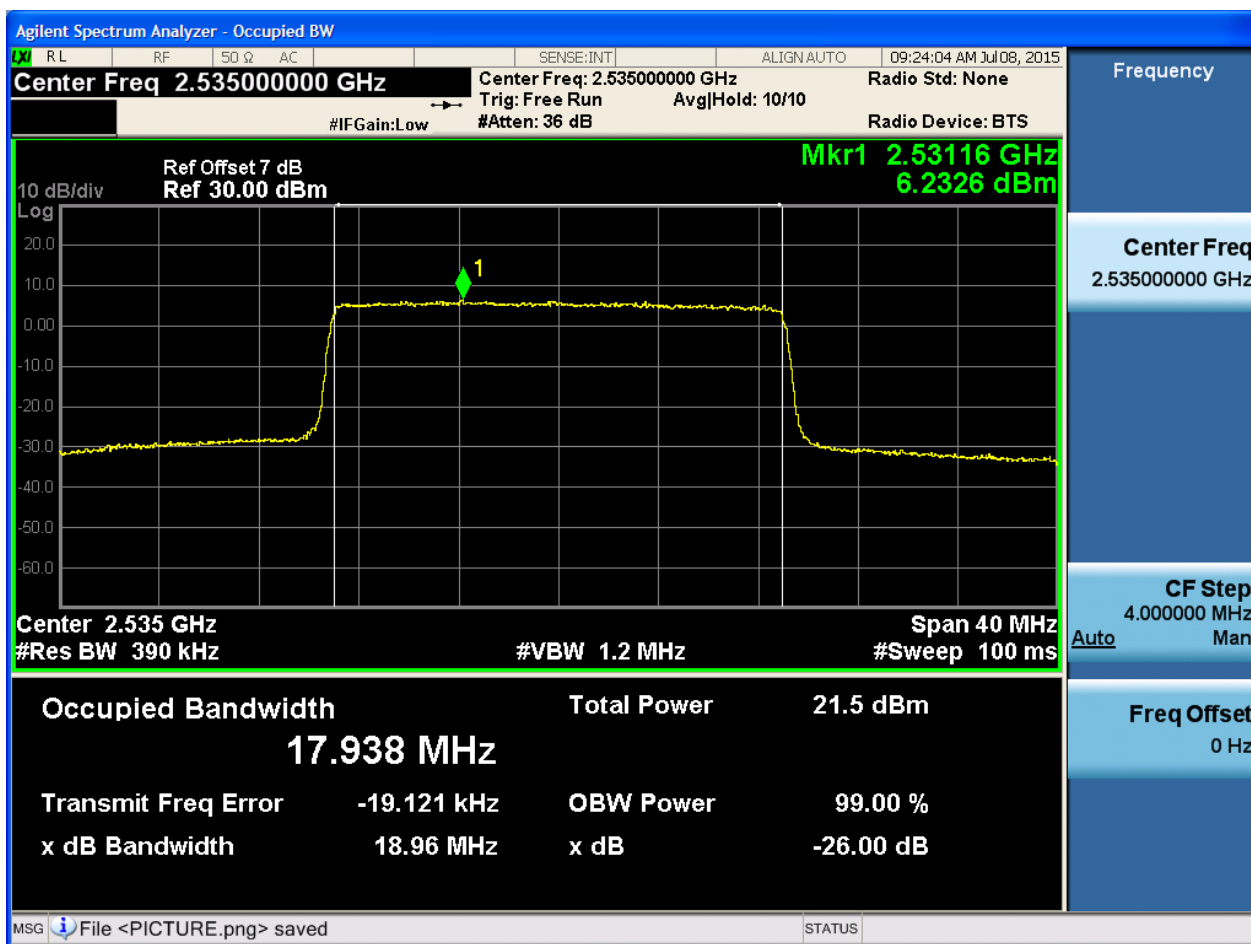
4.1.1.2.4.1.1 Test RB = RB100#0





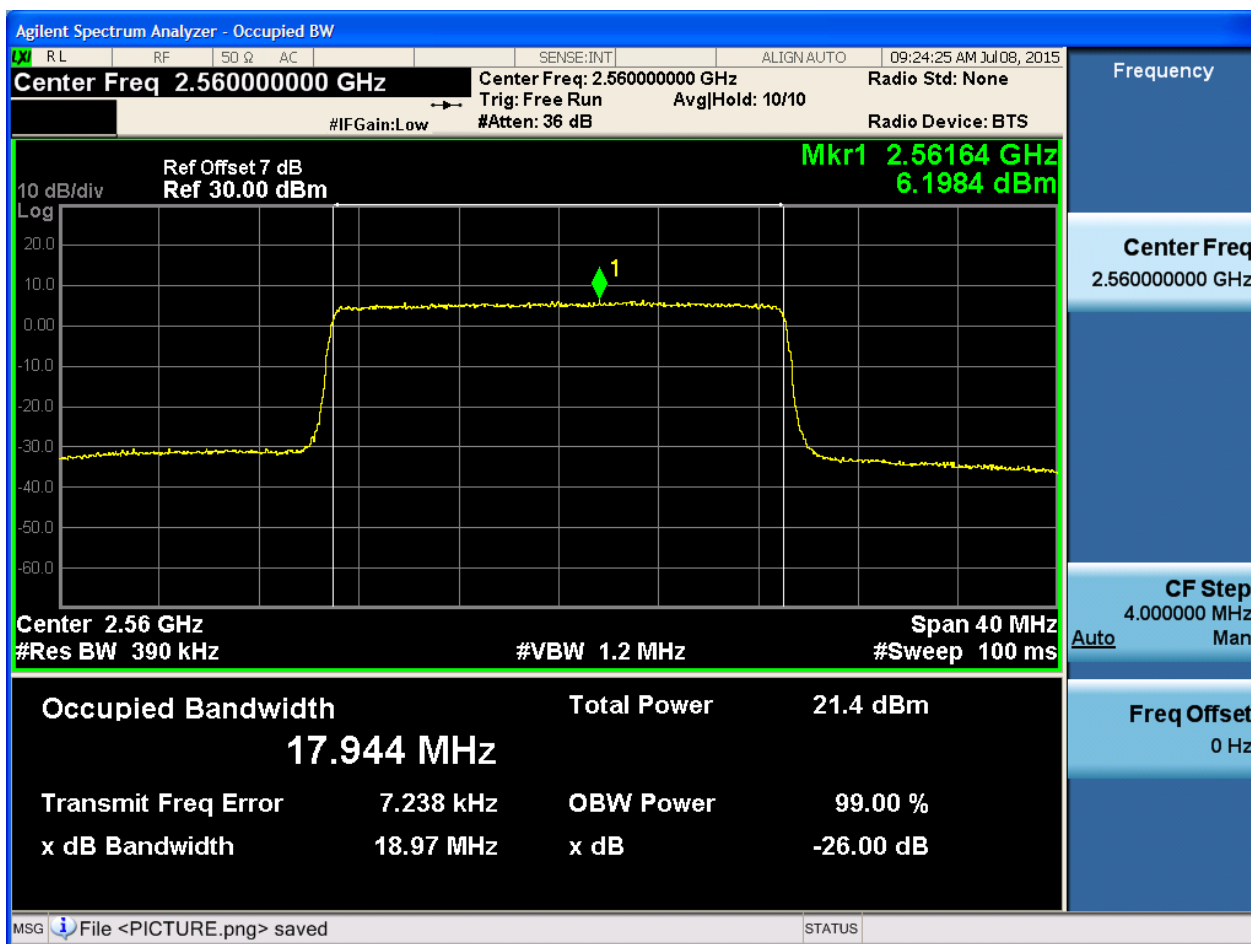
4.1.1.2.4.2 Test Channel = MCH

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

5.1 For LTE

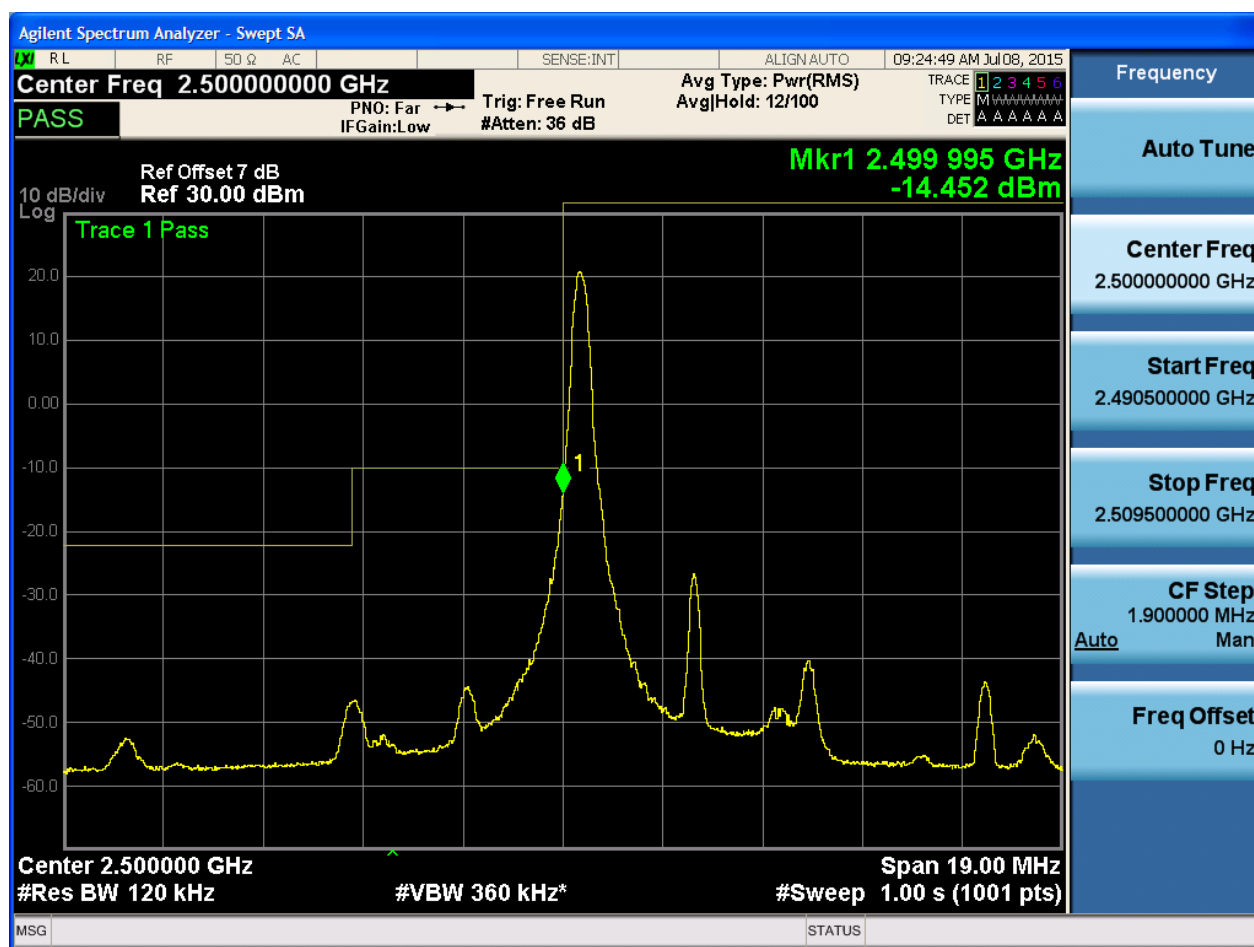
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

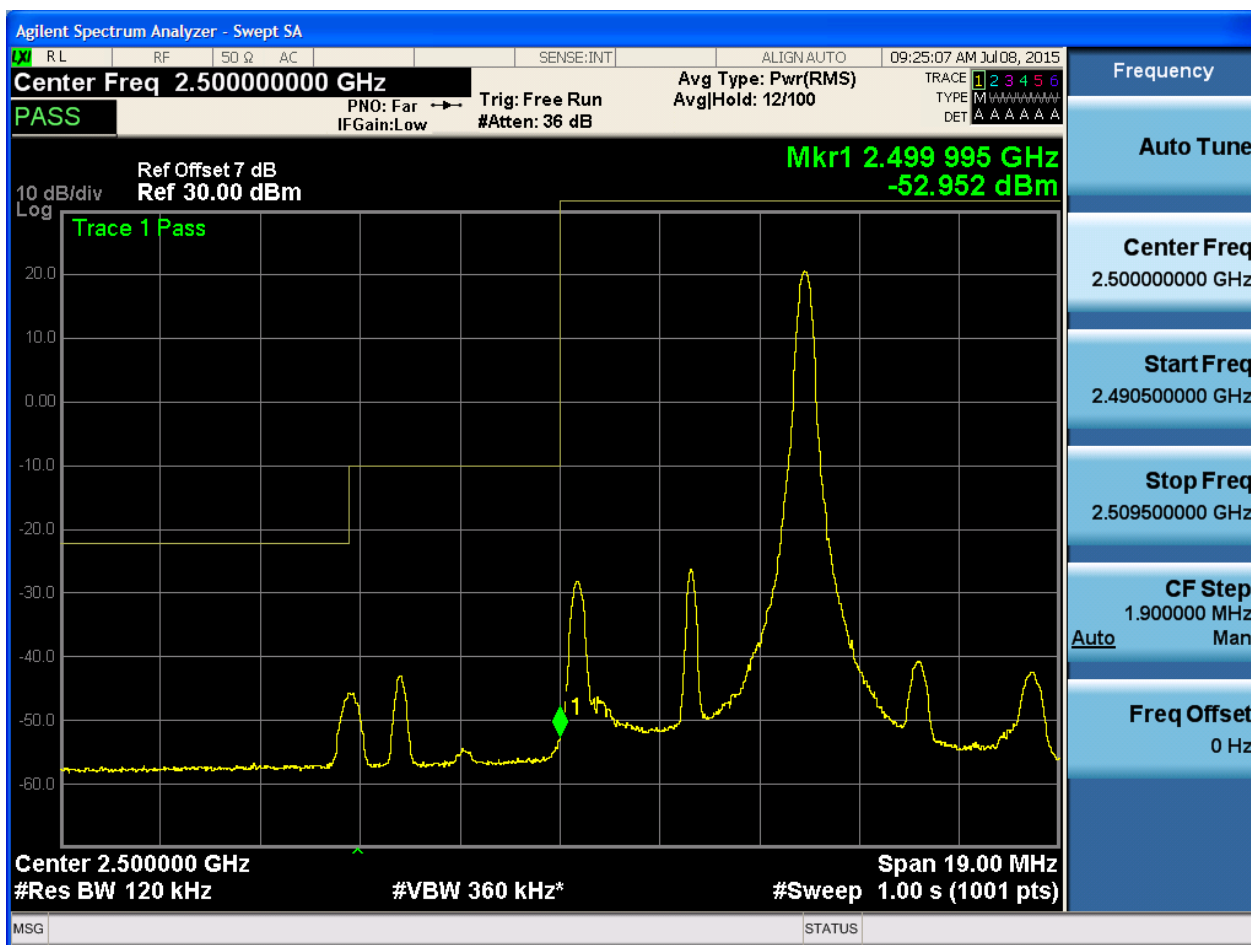
5.1.1.1.1.1 Test Channel = LCH

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



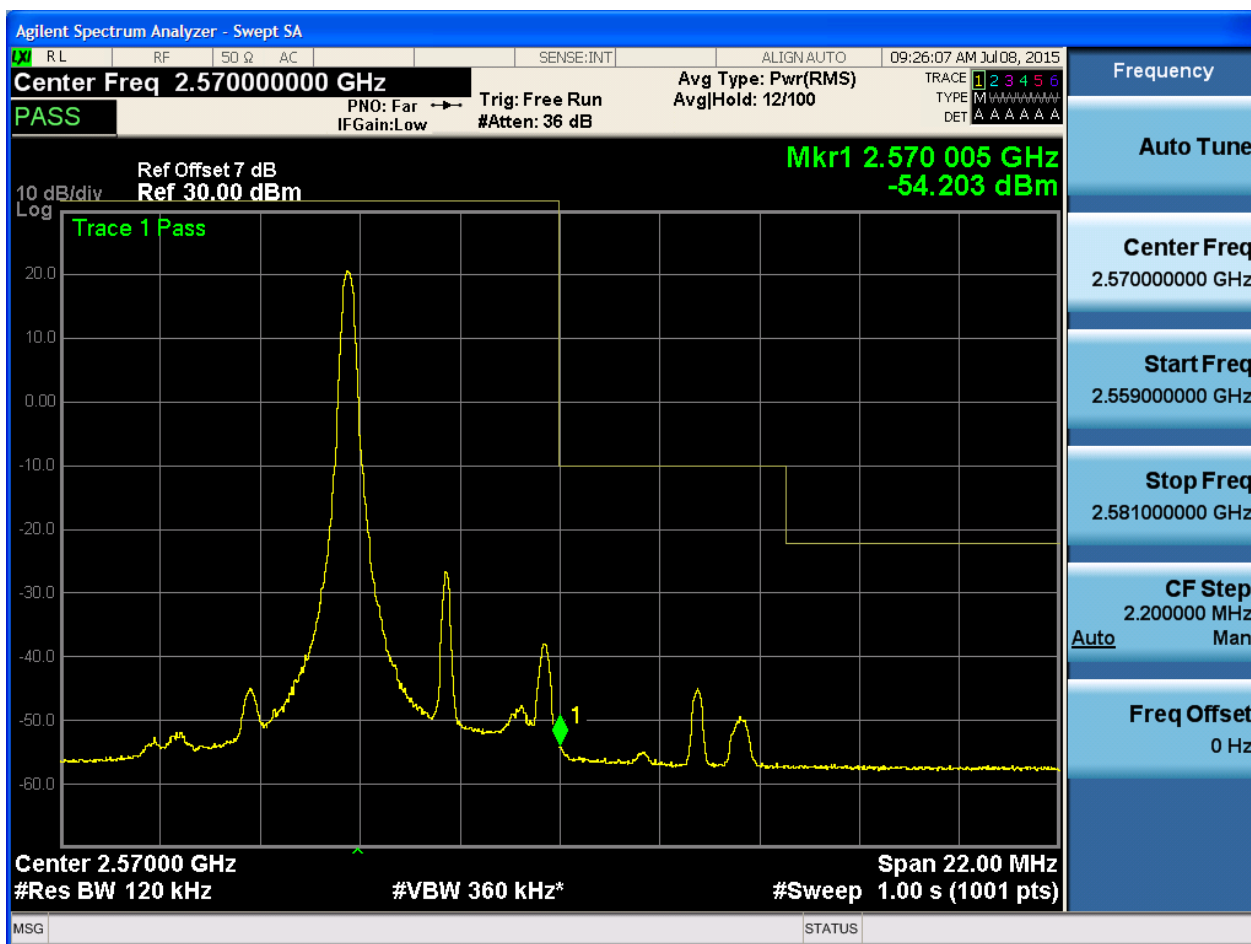


5.1.1.1.1.4 Test RB = RB25#0



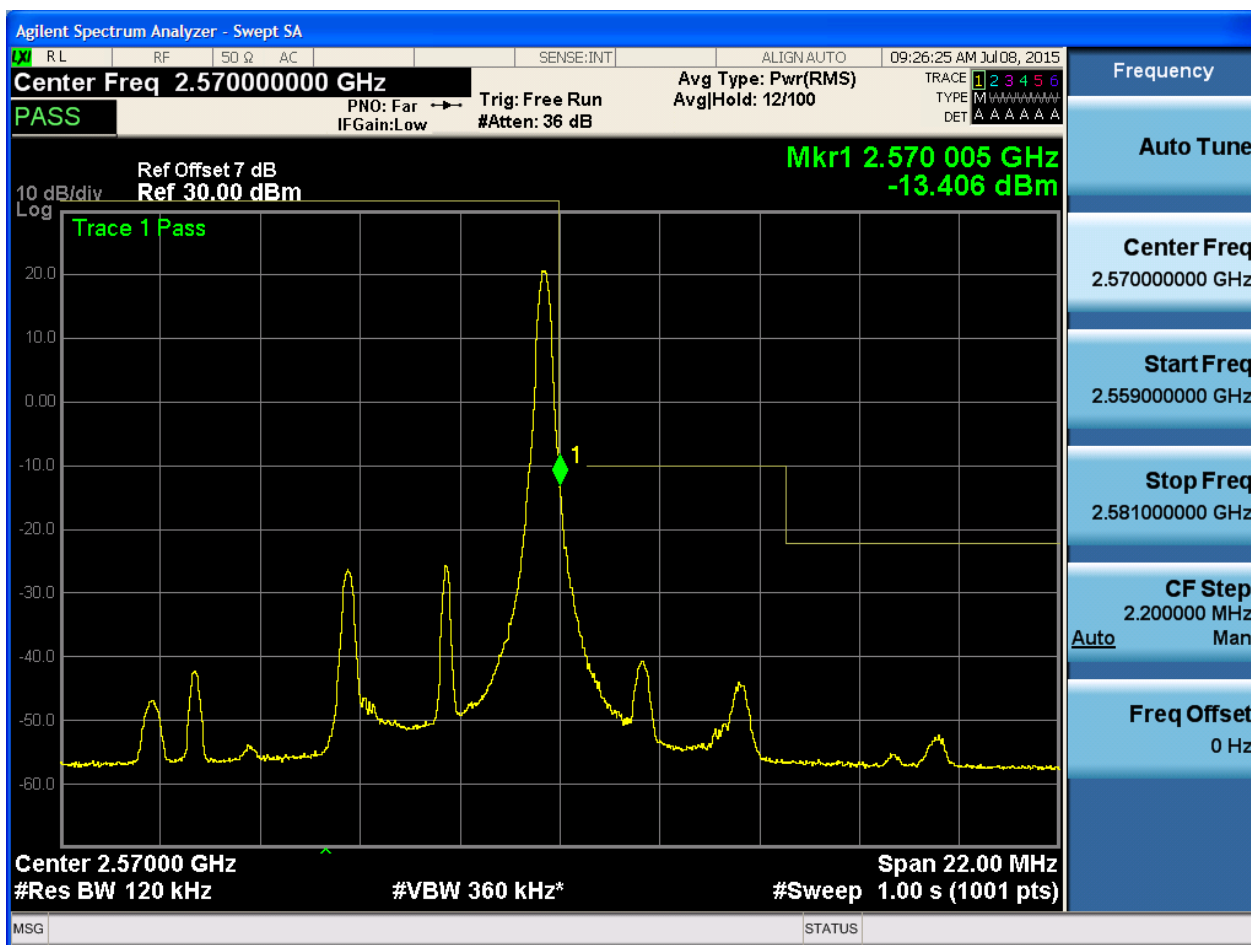
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB = RB1#0



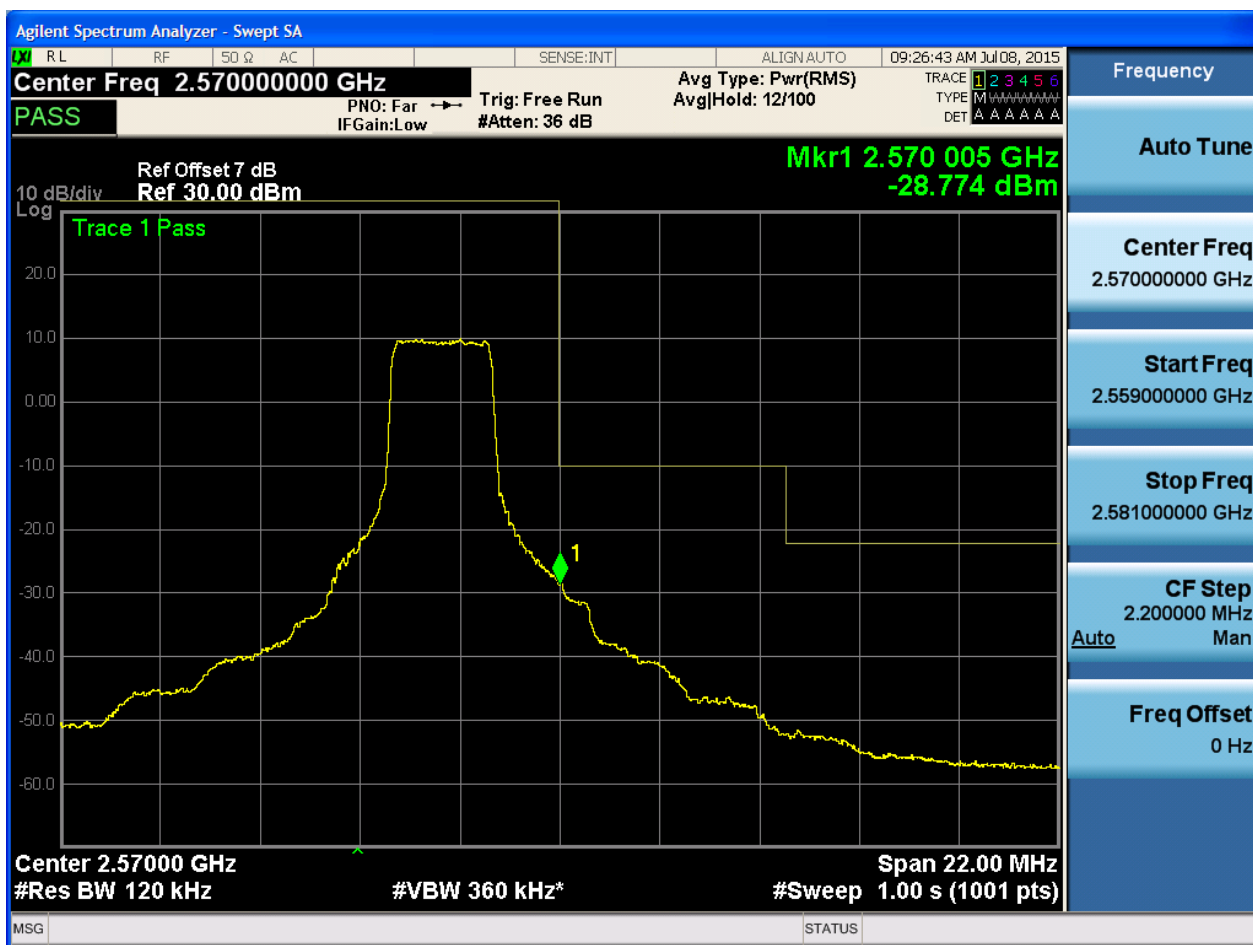


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





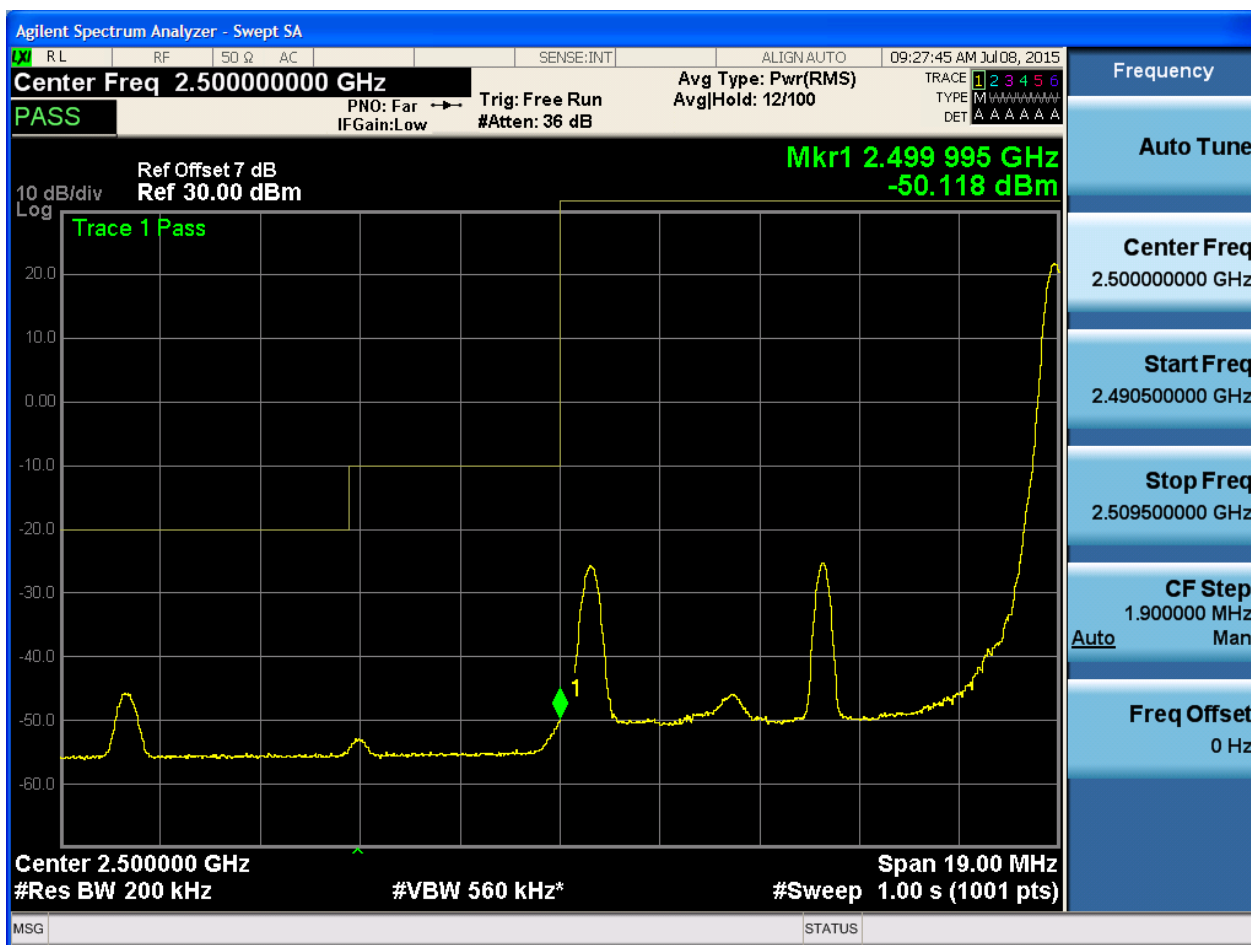
5.1.1.1.2.4 Test RB = RB25#0







5.1.1.1.2.1.2 Test RB = RB1#49



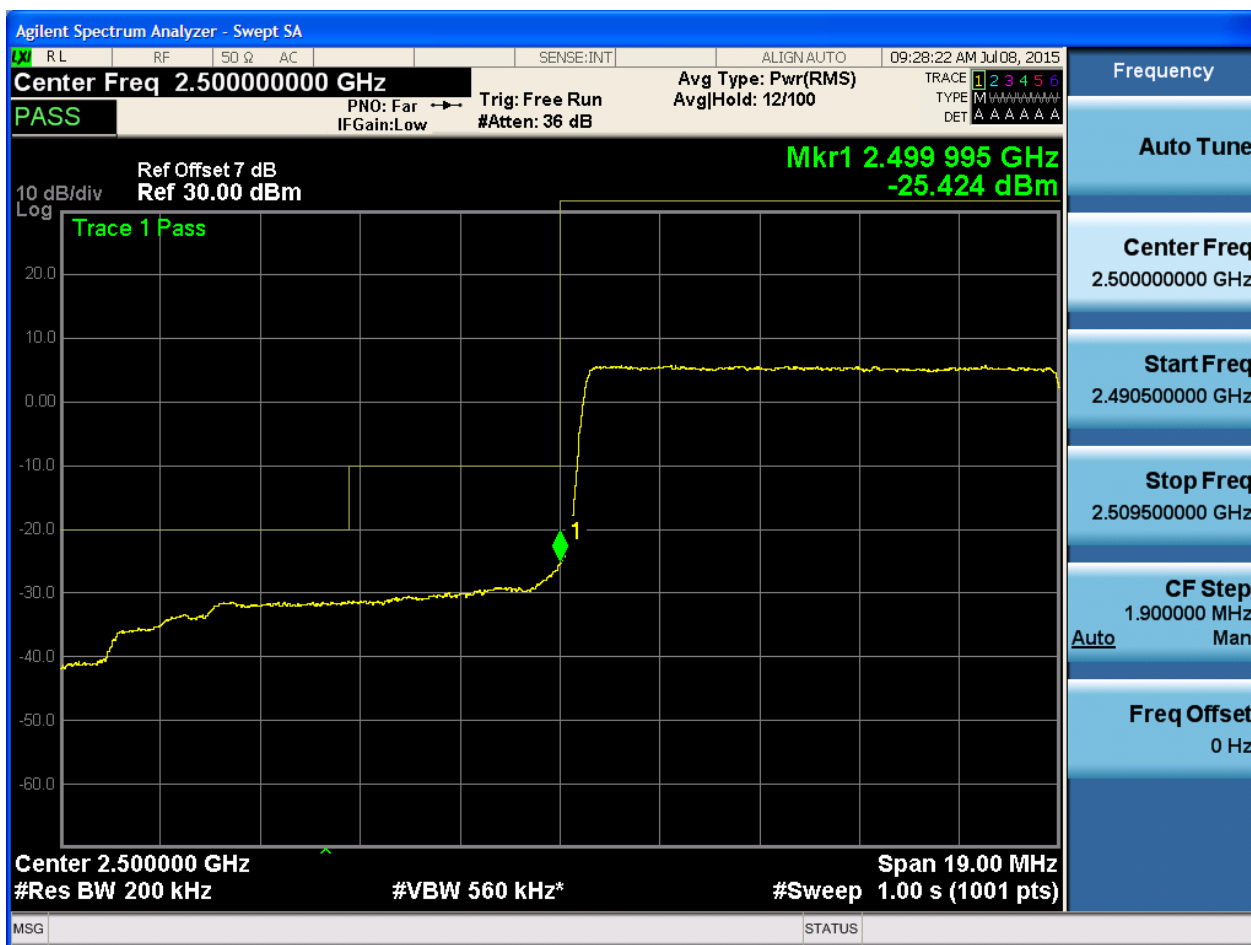


5.1.1.1.2.1.3 Test RB = RB25#13



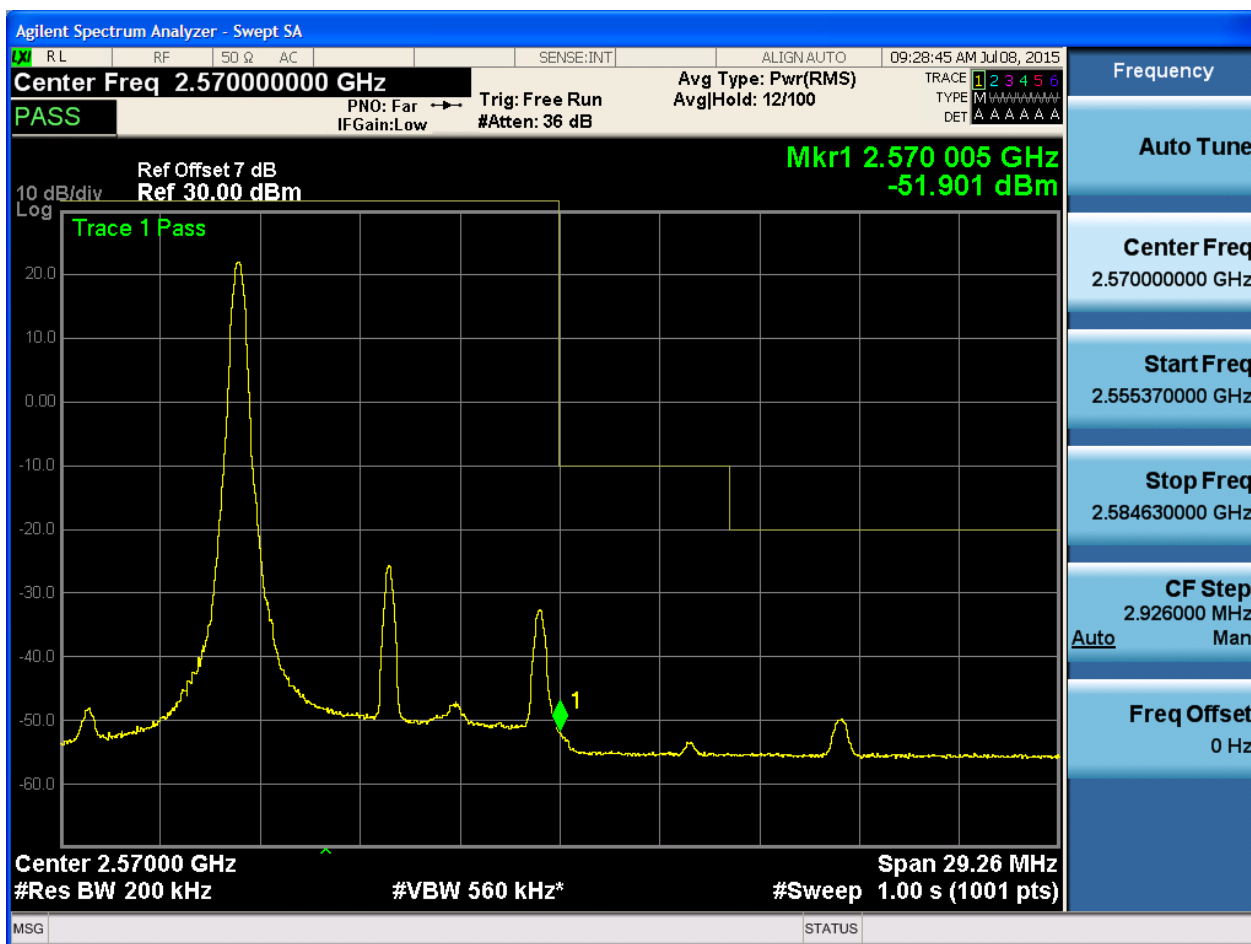


5.1.1.1.2.1.4 Test RB = RB50#0



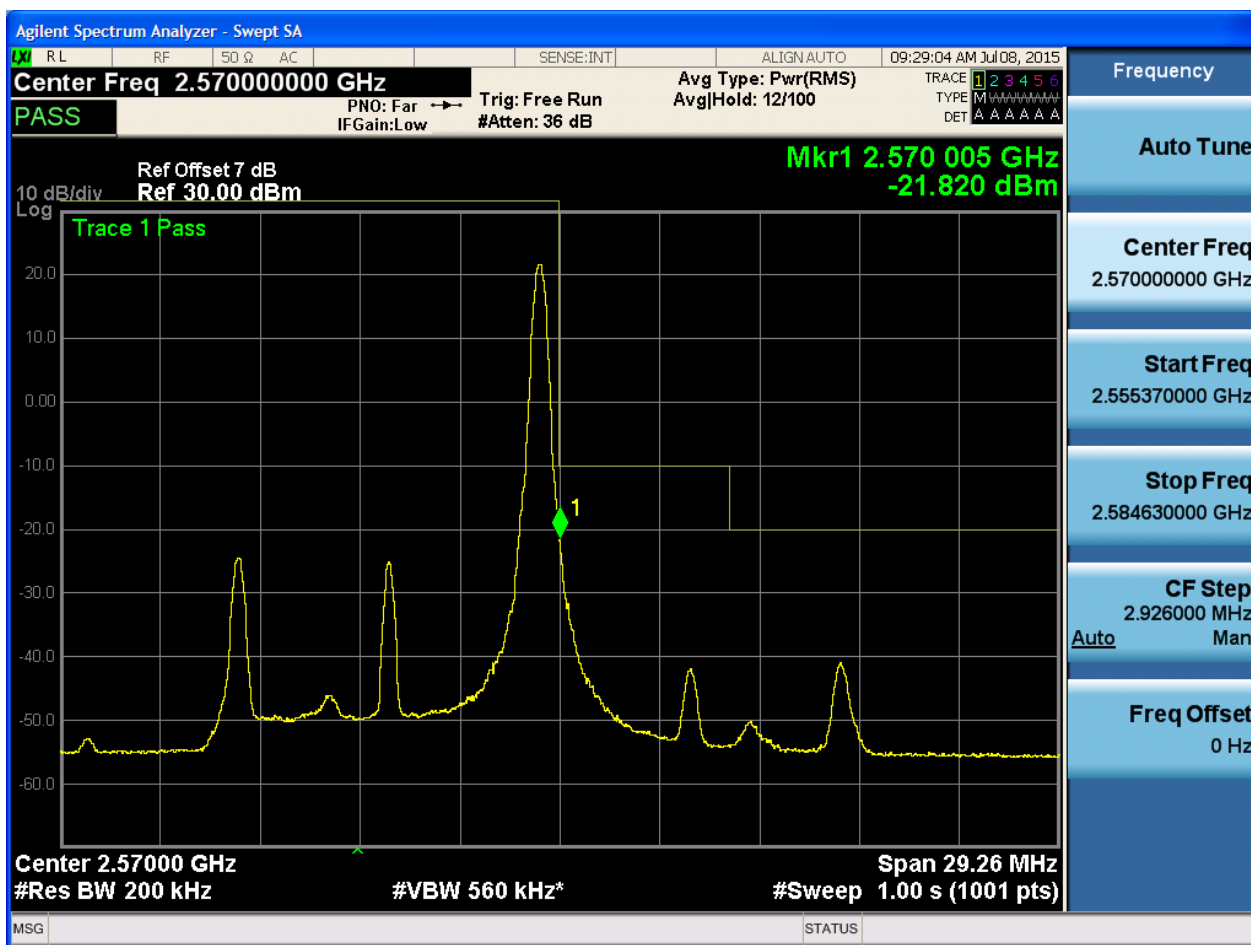
5.1.1.1.2.2 Test Channel = HCH

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





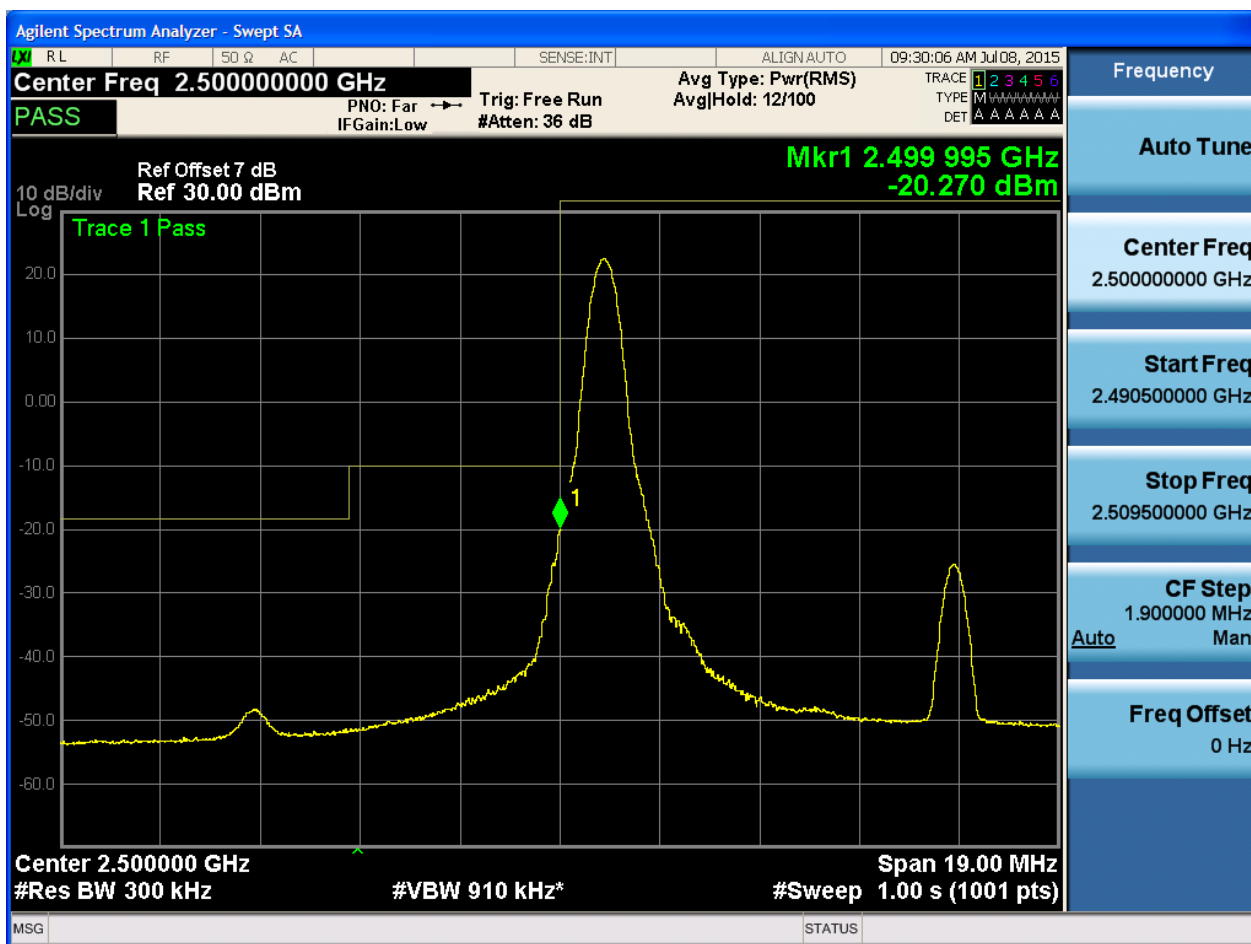
5.1.1.1.2.2.4 Test RB = RB50#0



5.1.1.1.3 Test Bandwidth = 15

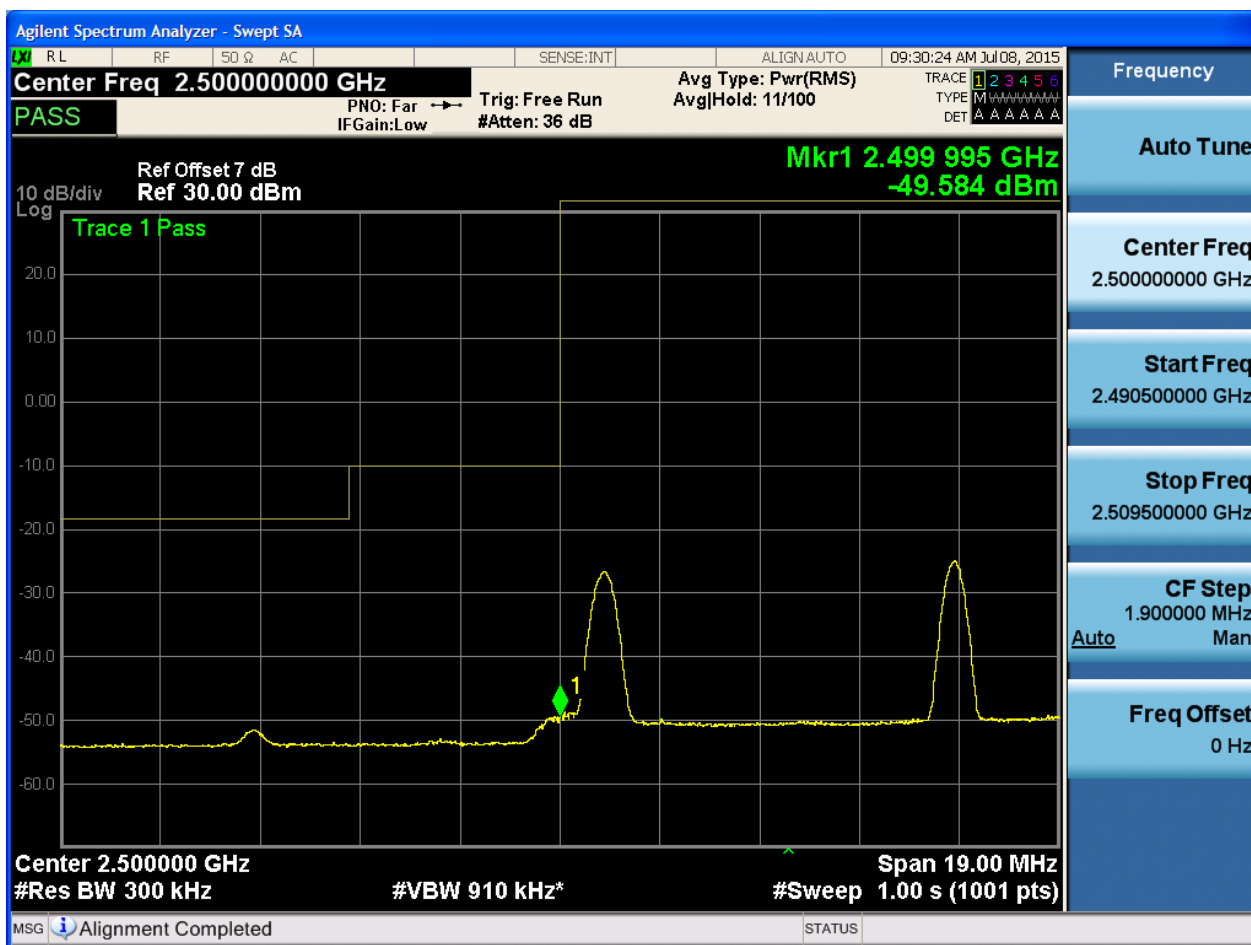
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#74





5.1.1.1.3.1.3 Test RB = RB36#18



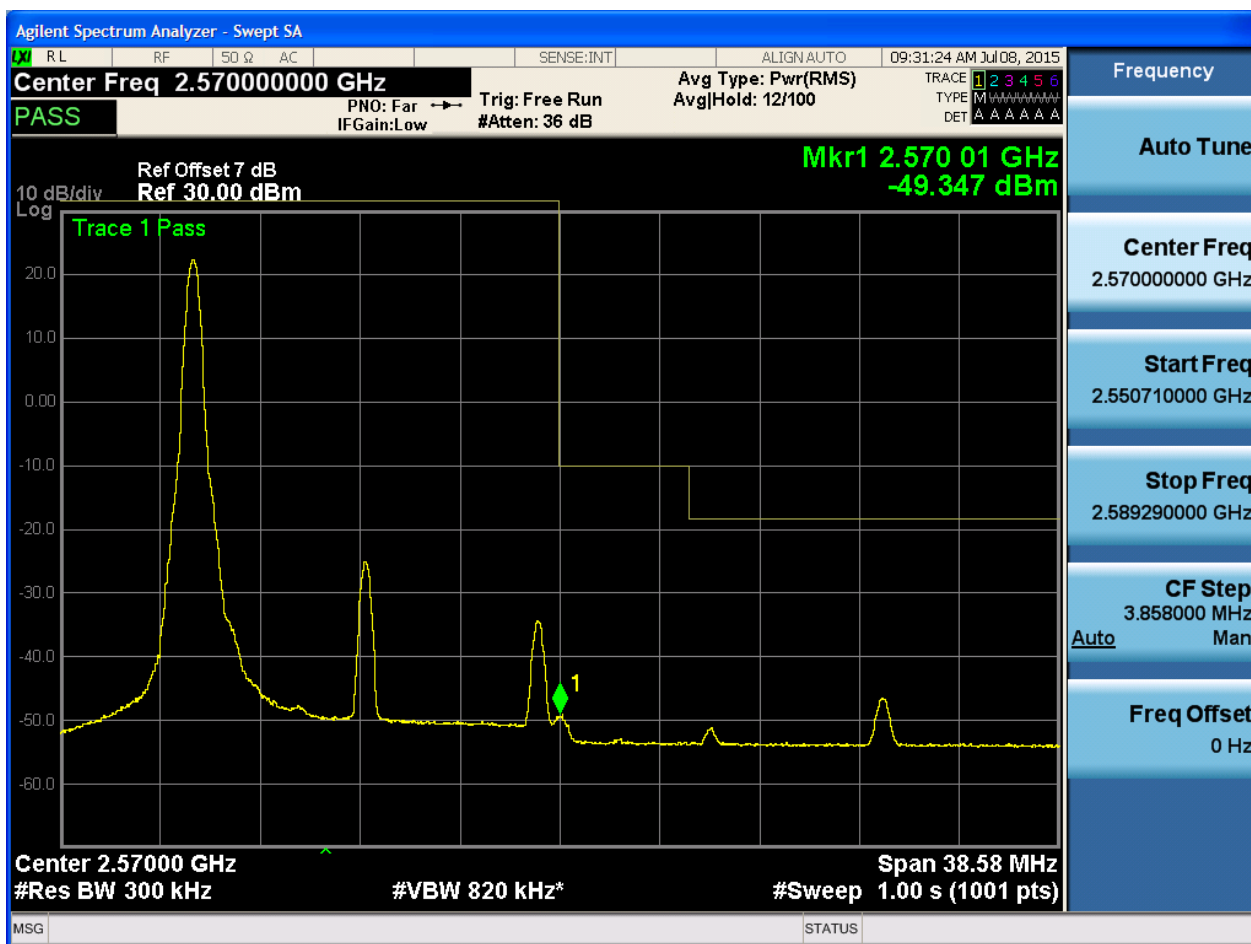


5.1.1.1.3.1.4 Test RB = RB75#0



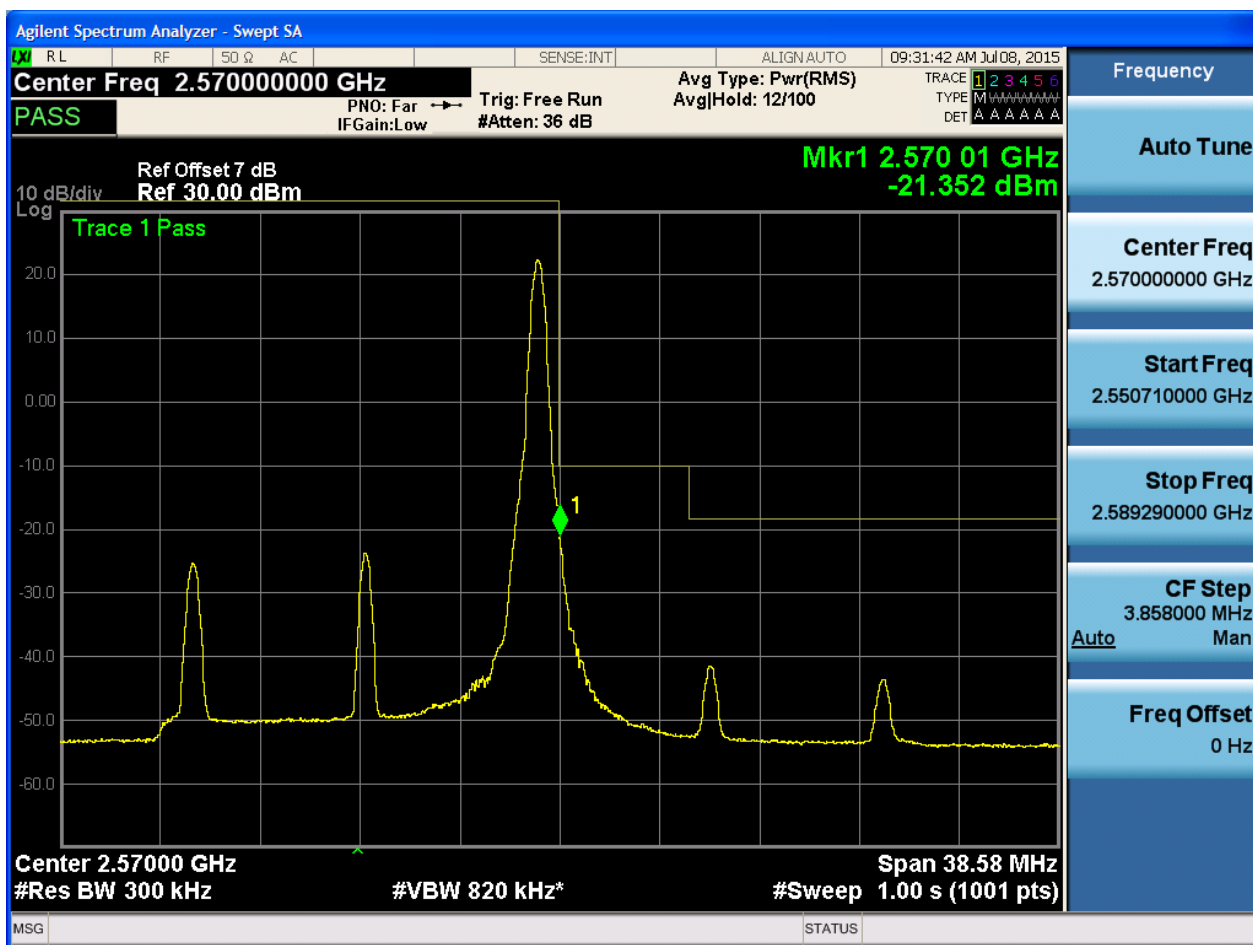
5.1.1.1.3.2 Test Channel = HCH

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





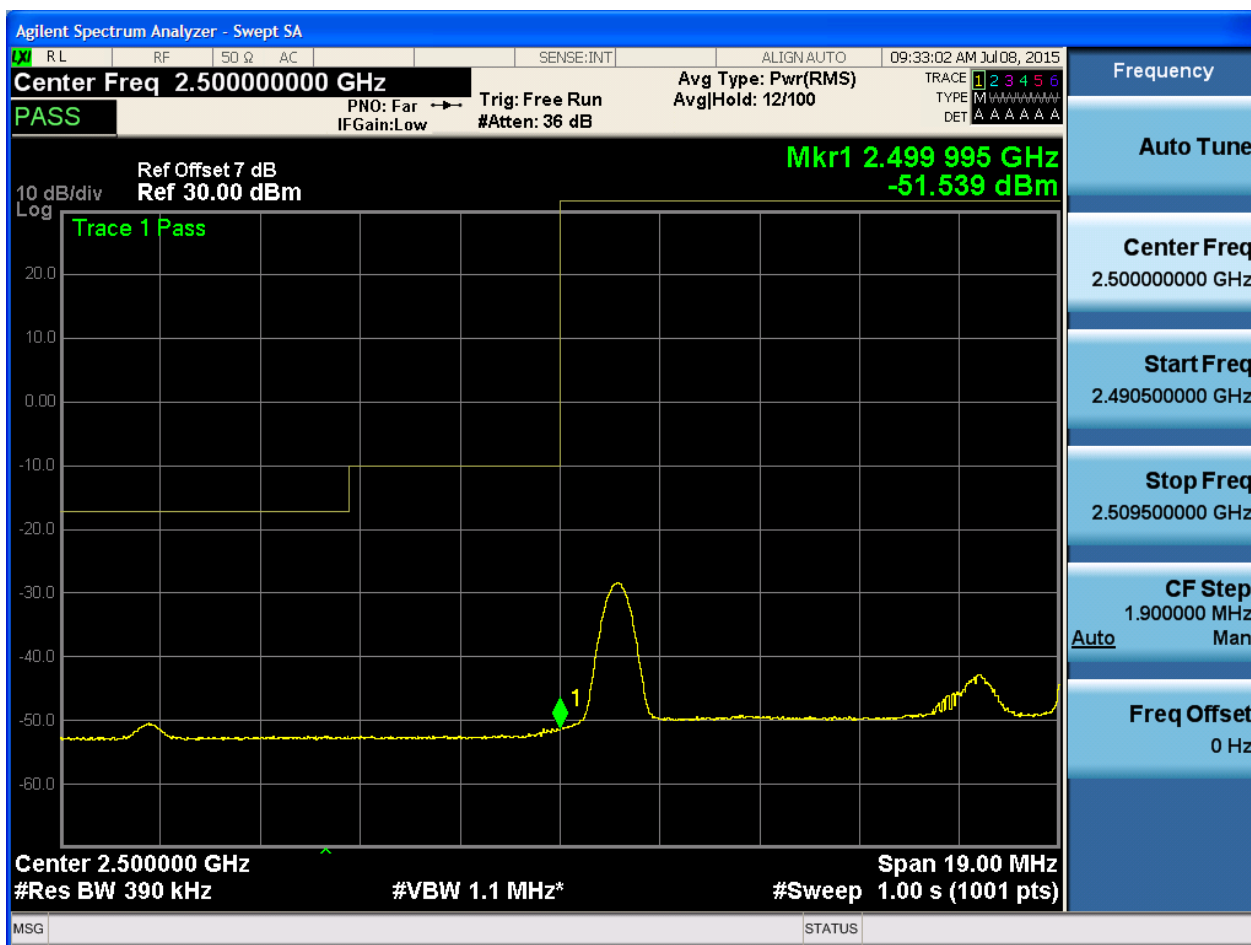
5.1.1.1.3.2.4 Test RB = RB75#0





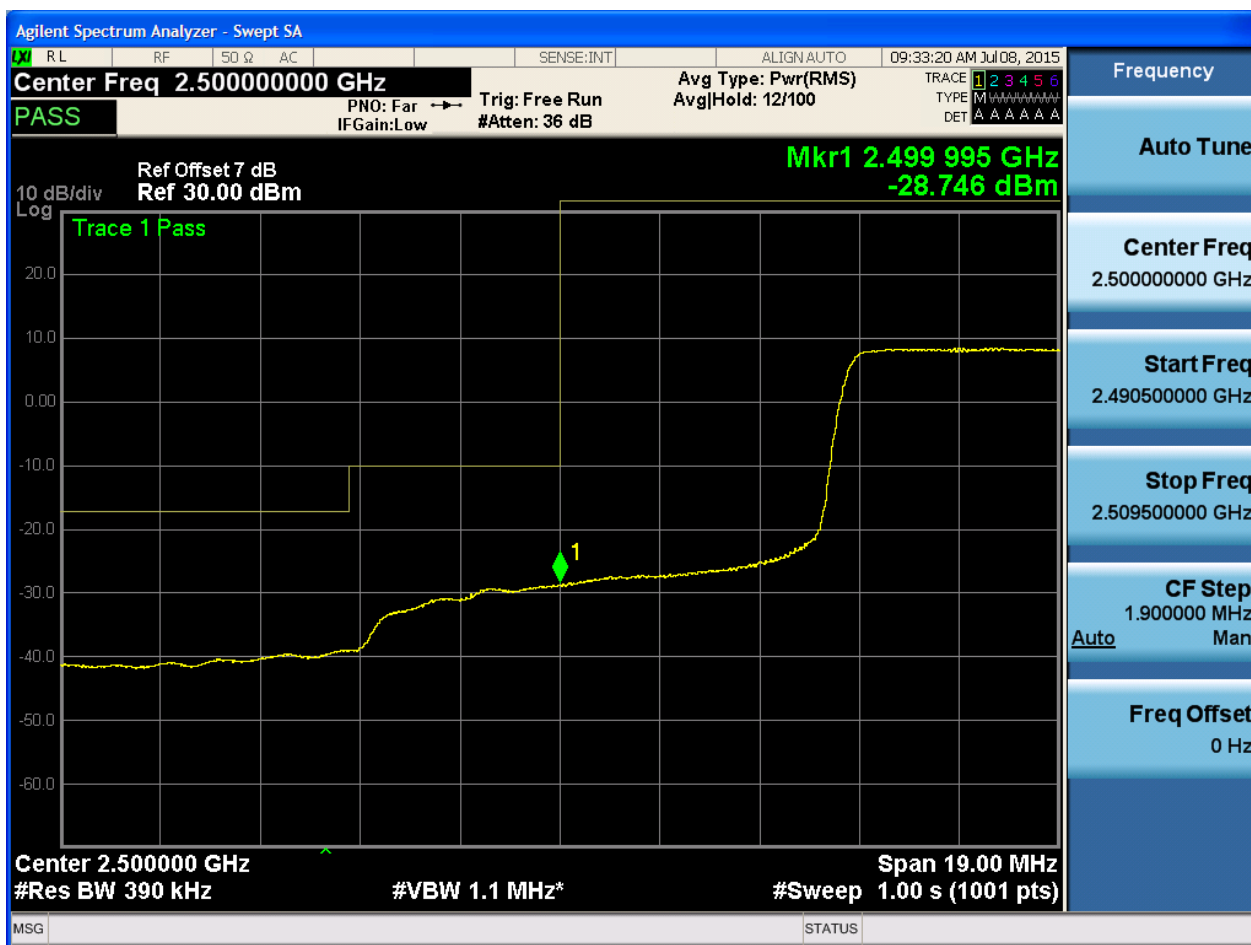


5.1.1.1.4.1.2 Test RB = RB1#99



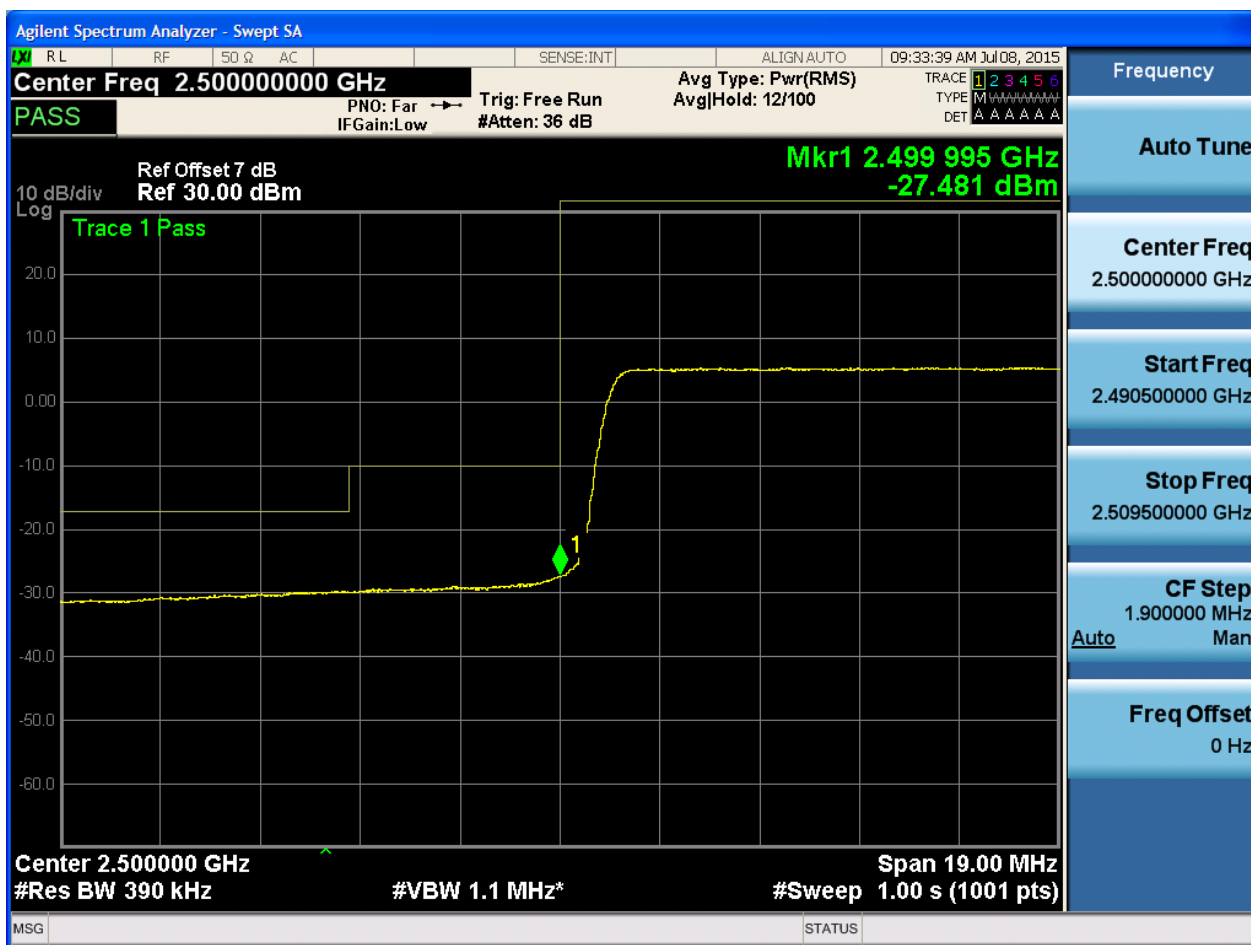


5.1.1.1.4.1.3 Test RB = RB50#25



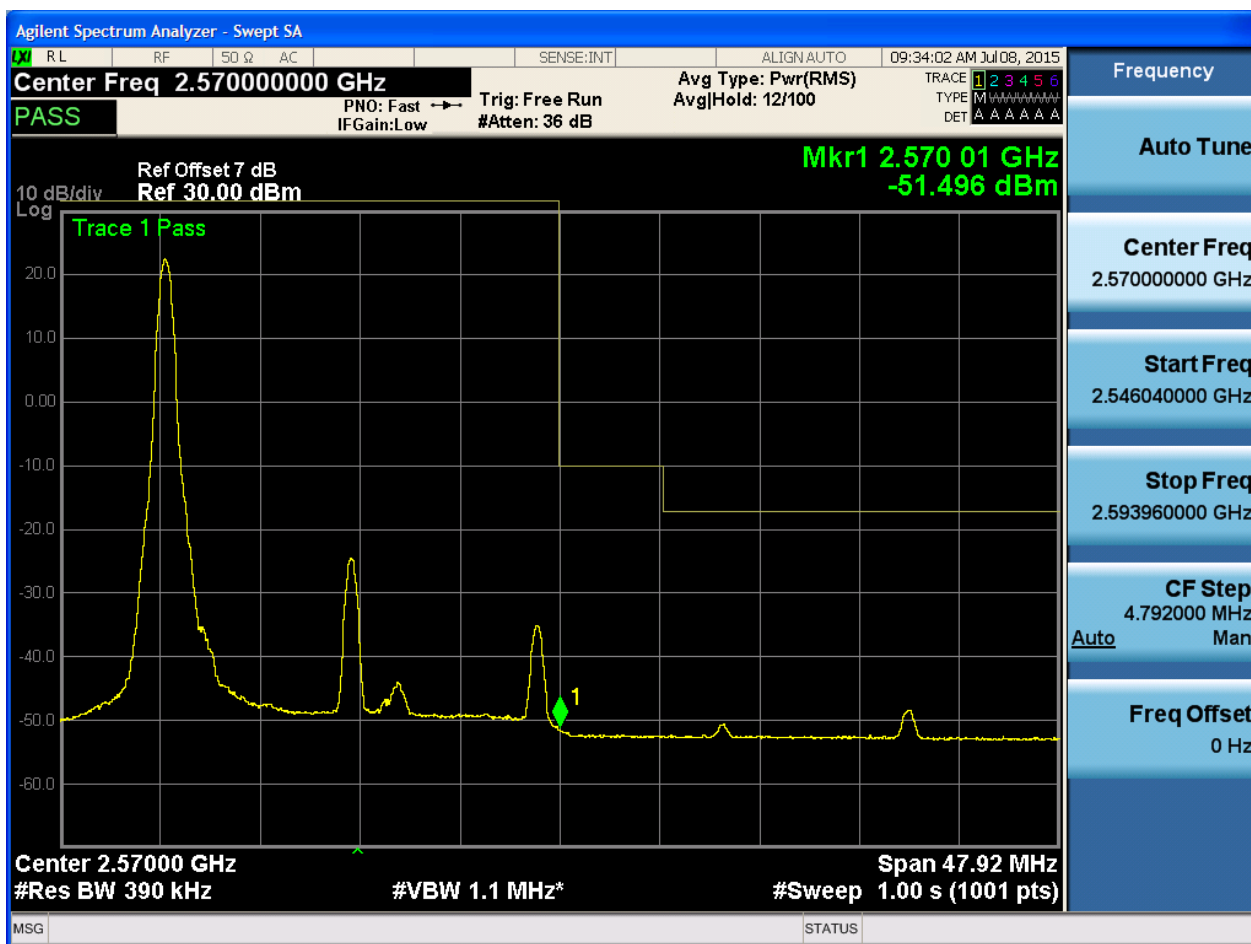


5.1.1.1.4.1.4 Test RB = RB100#0



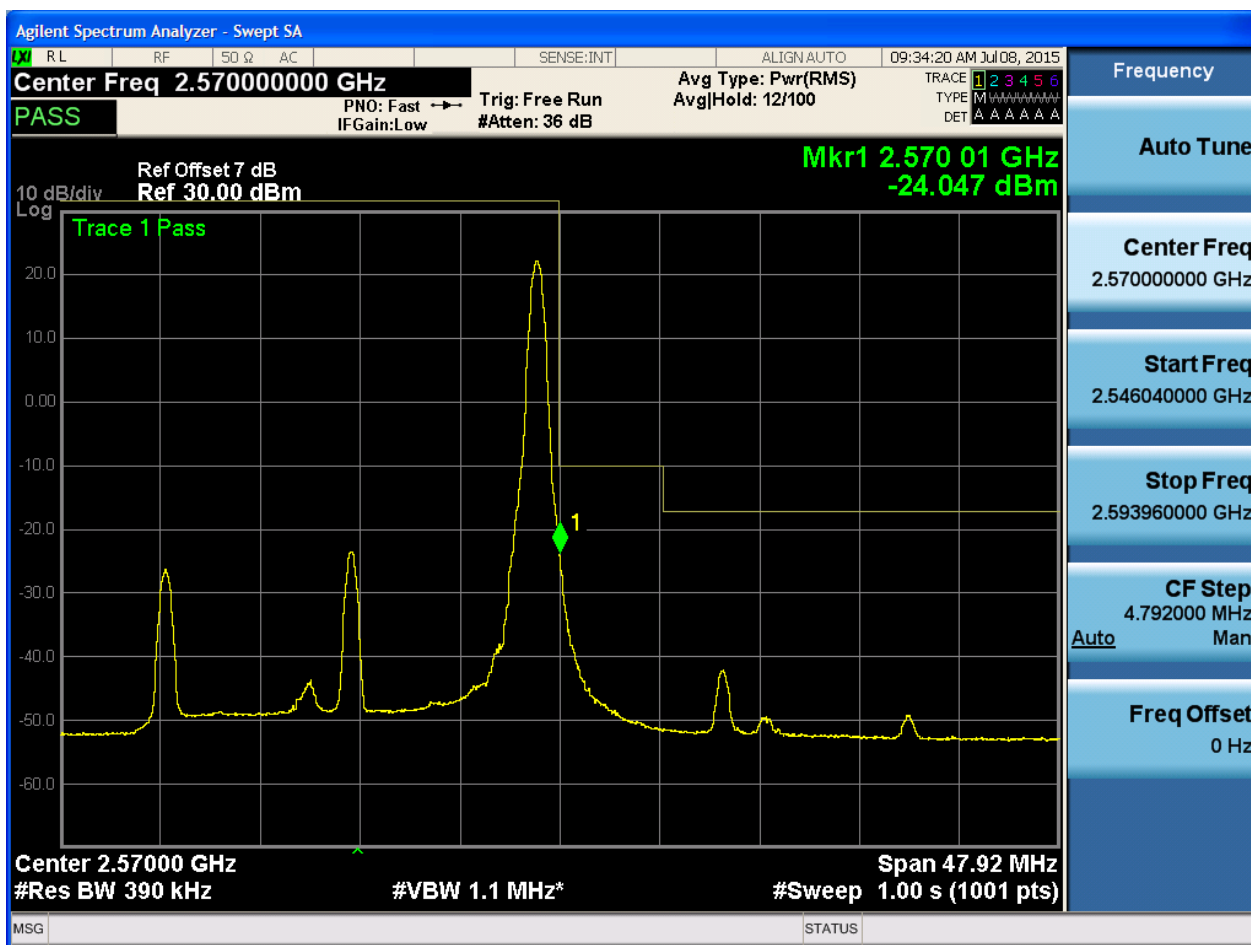
5.1.1.1.4.2 Test Channel = HCH

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



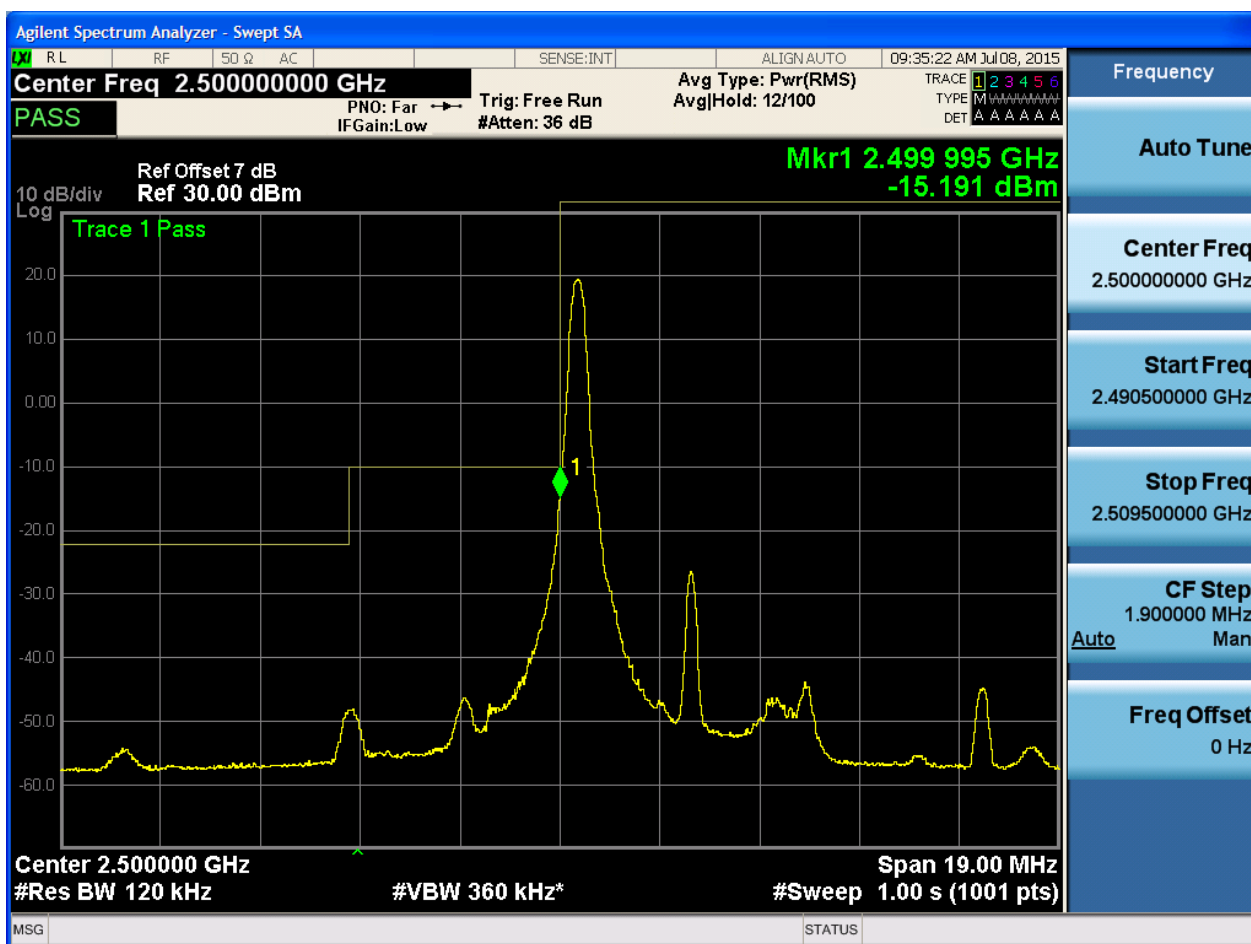


5.1.1.2 Test Mode = LTE/TM2

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 09:35:41 AM Jul 08, 2015

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

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-53.619 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)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

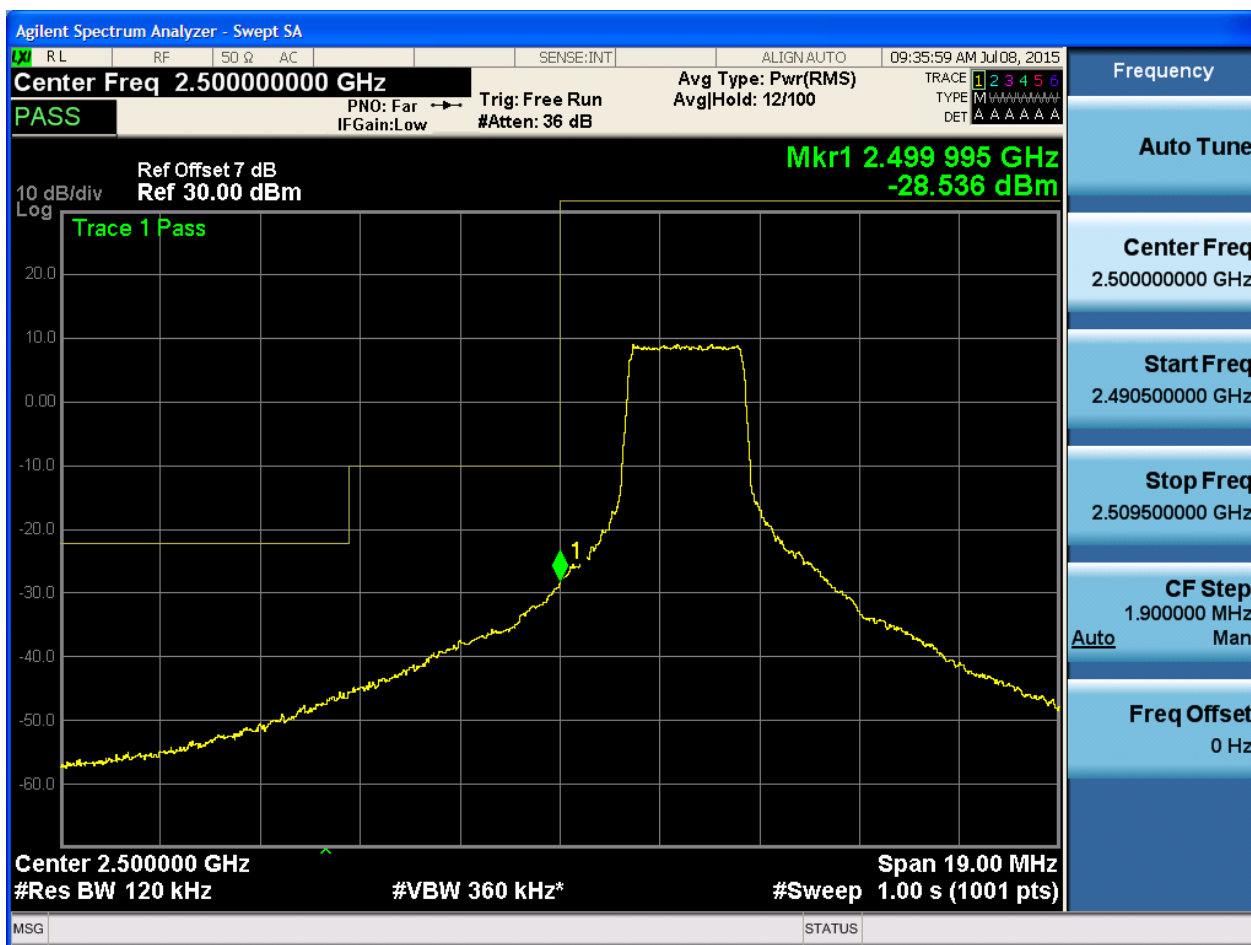
CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.1.2.1.1.3 Test RB = RB12#6



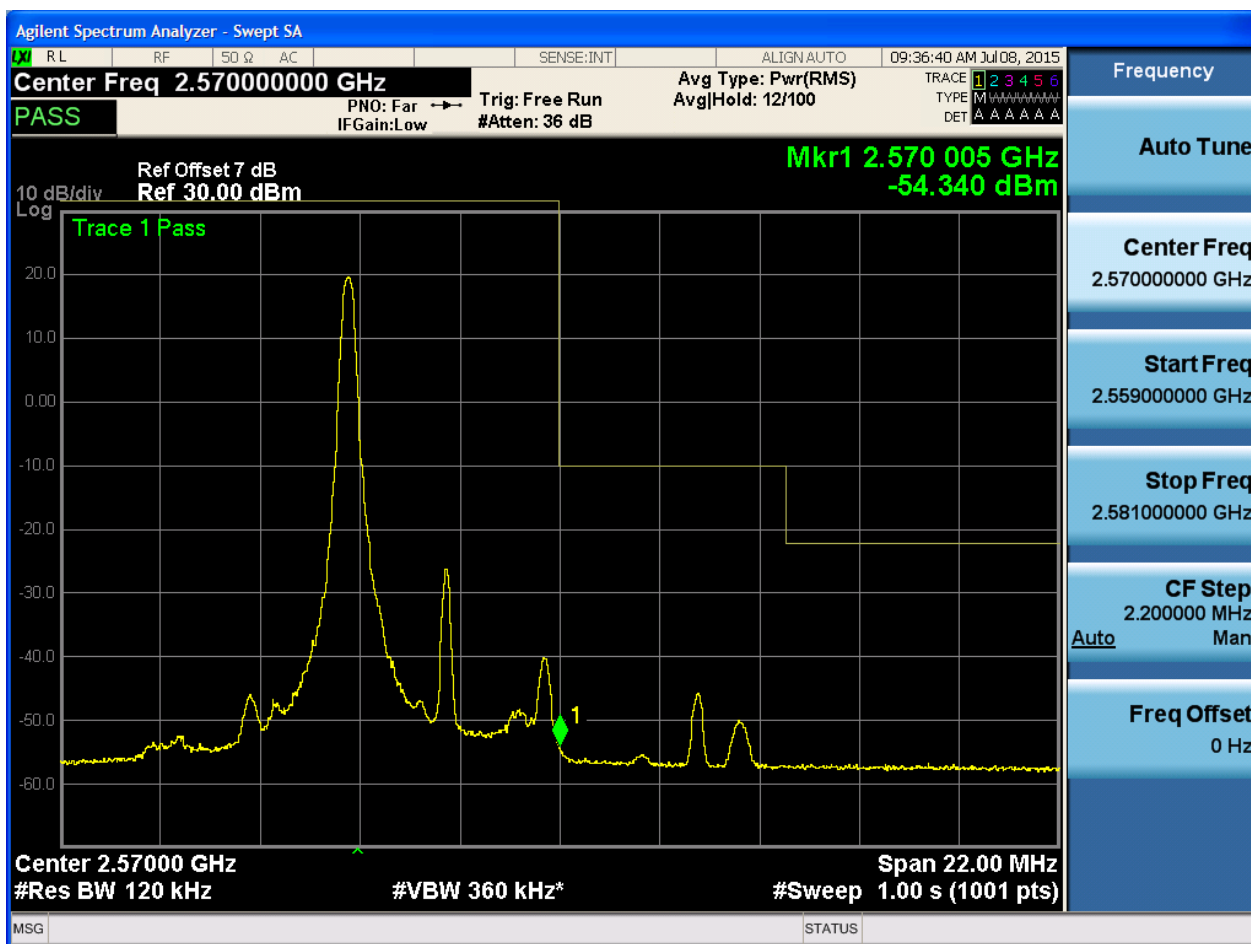


5.1.1.2.1.1.4 Test RB = RB25#0



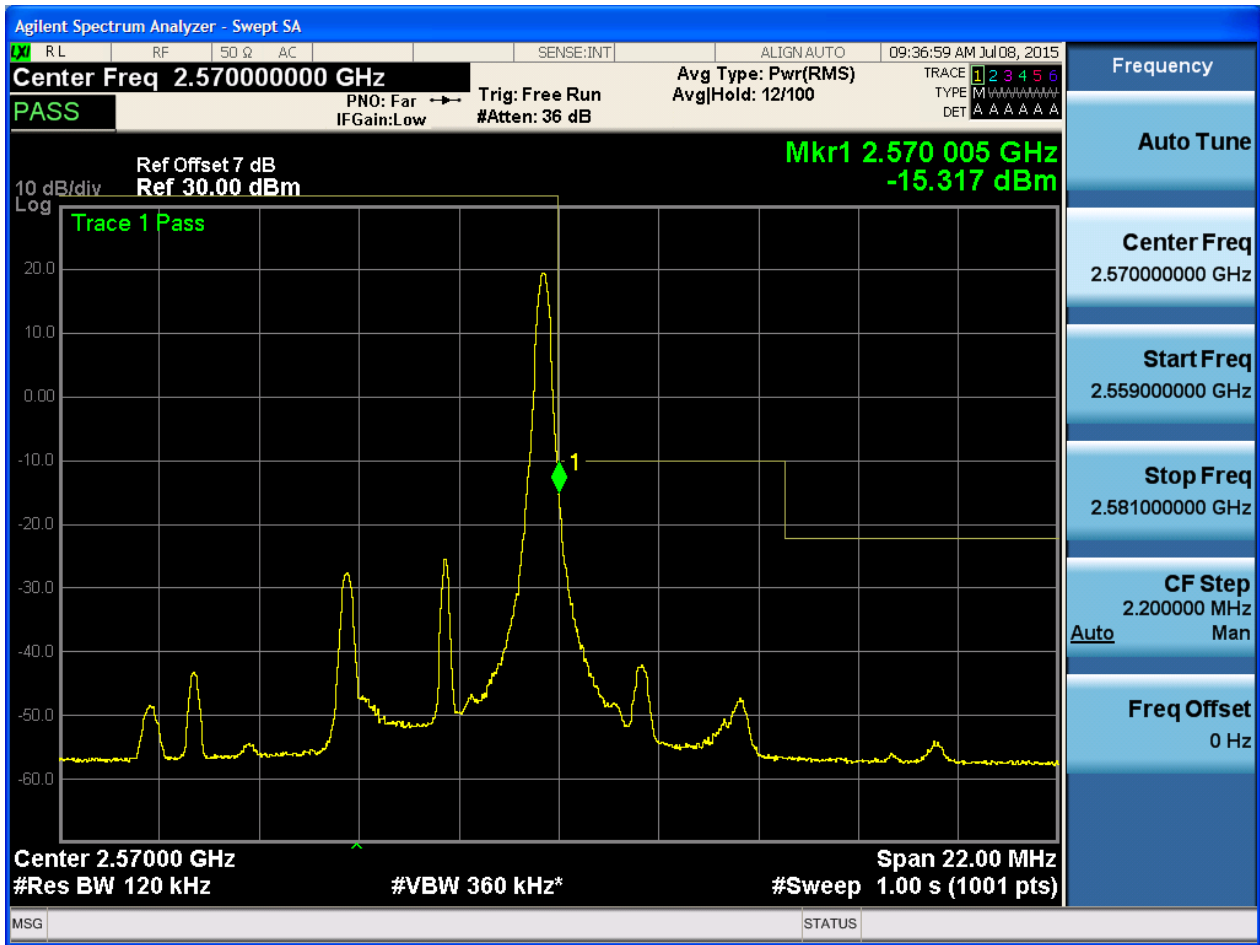
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



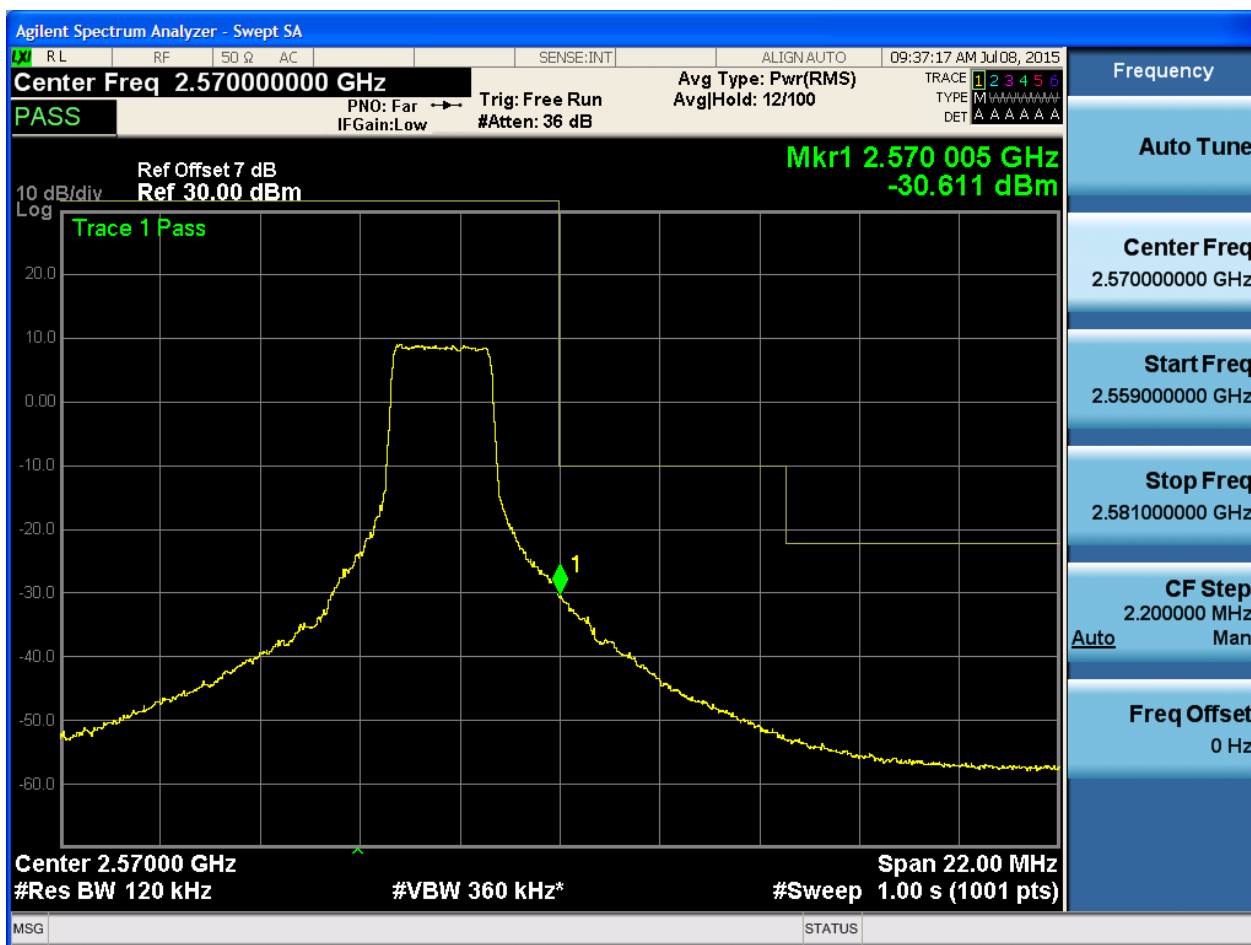


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:37:35 AM Jul 08, 2015

Center Freq 2.57000000 GHz Avg Type: Pwr(RMS) Trace 1 2 3 4 5 6
PASS PNO: Far Trig: Free Run Avg|Hold: 12/100 TYPE M W W W W W W W
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7 dB Mkr1 2.570 005 GHz
Ref 30.00 dBm -24.594 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 22.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Man

Auto

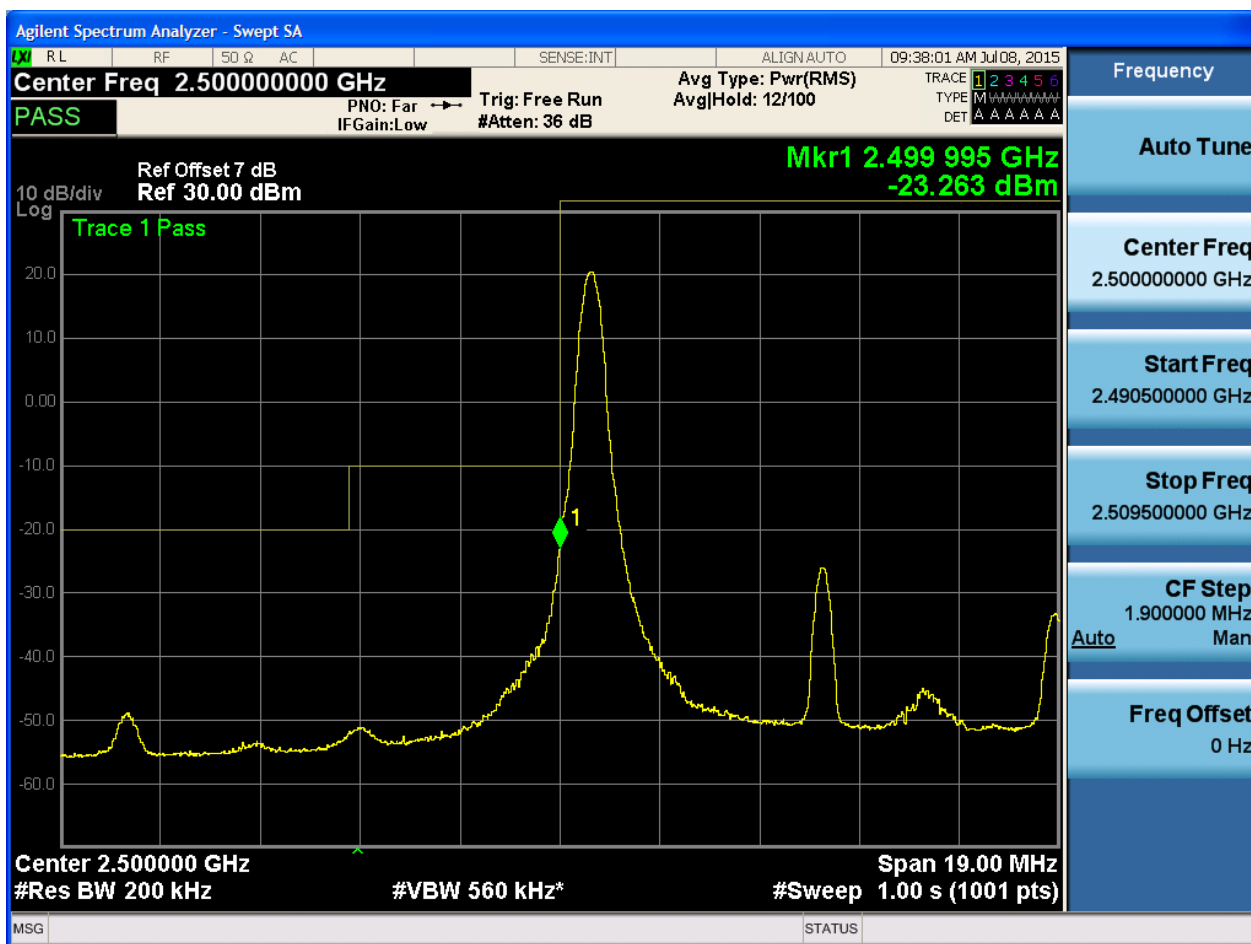
Freq Offset
0 Hz



5.1.1.2.2 Test Bandwidth = 10

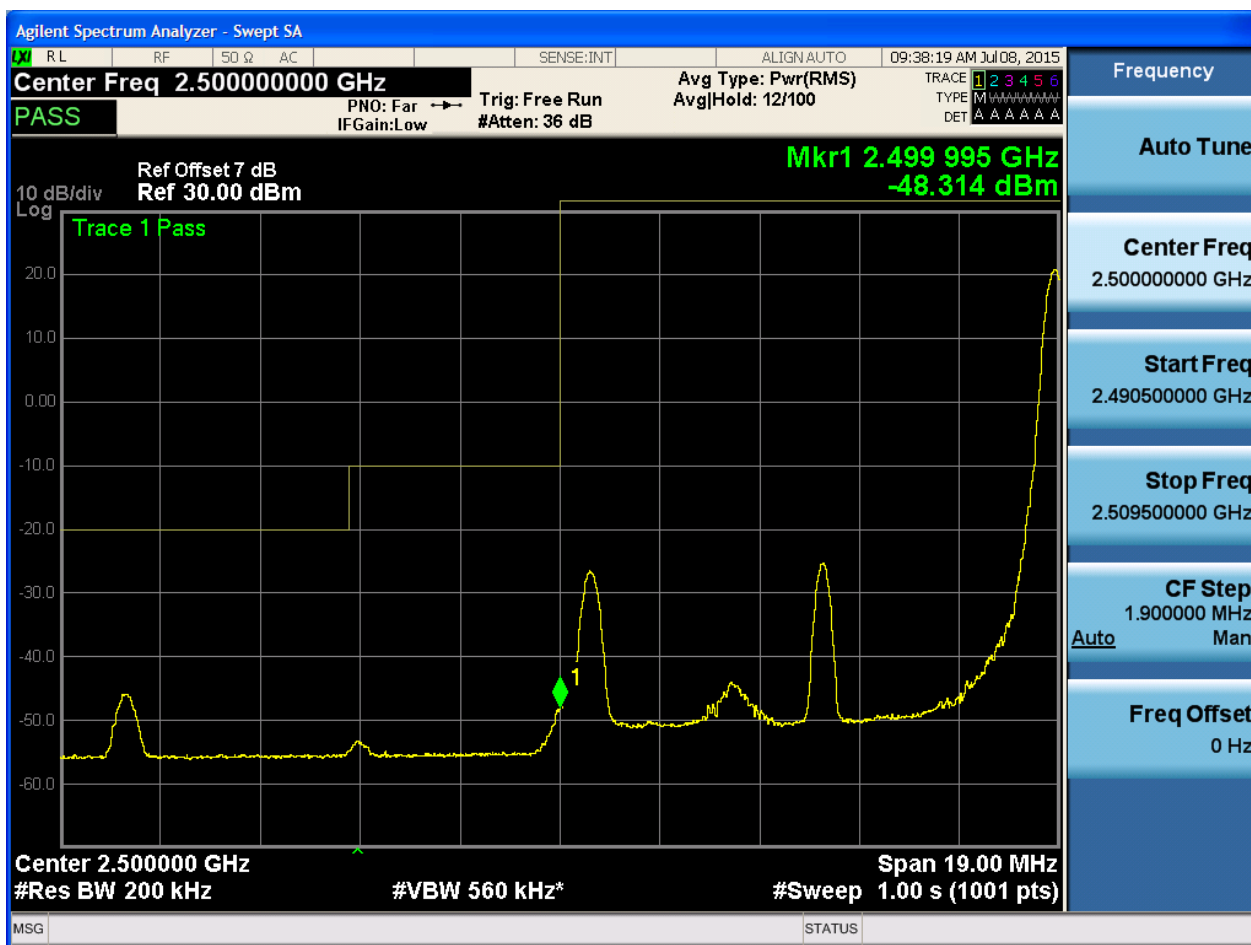
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49



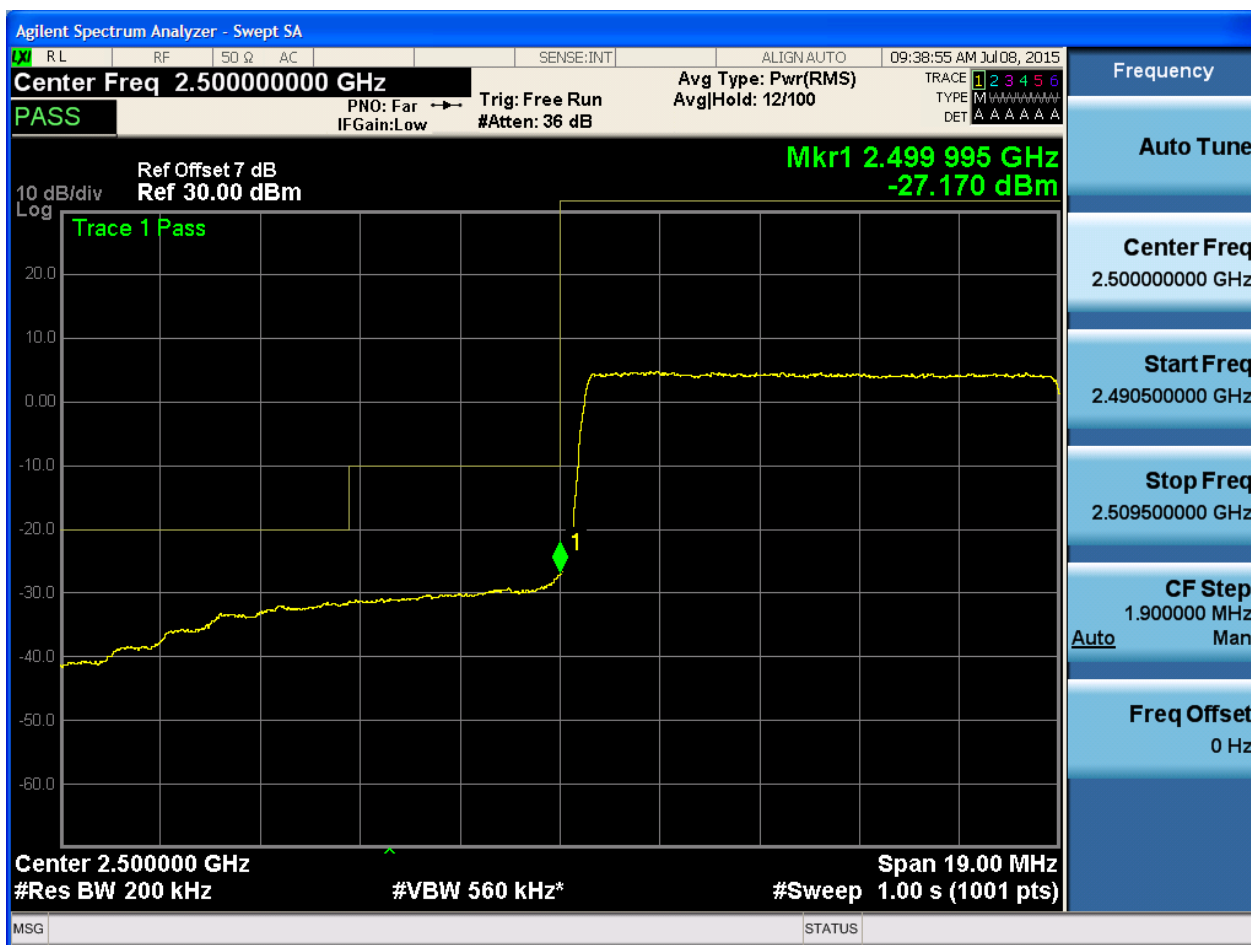


5.1.1.2.2.1.3 Test RB = RB25#13



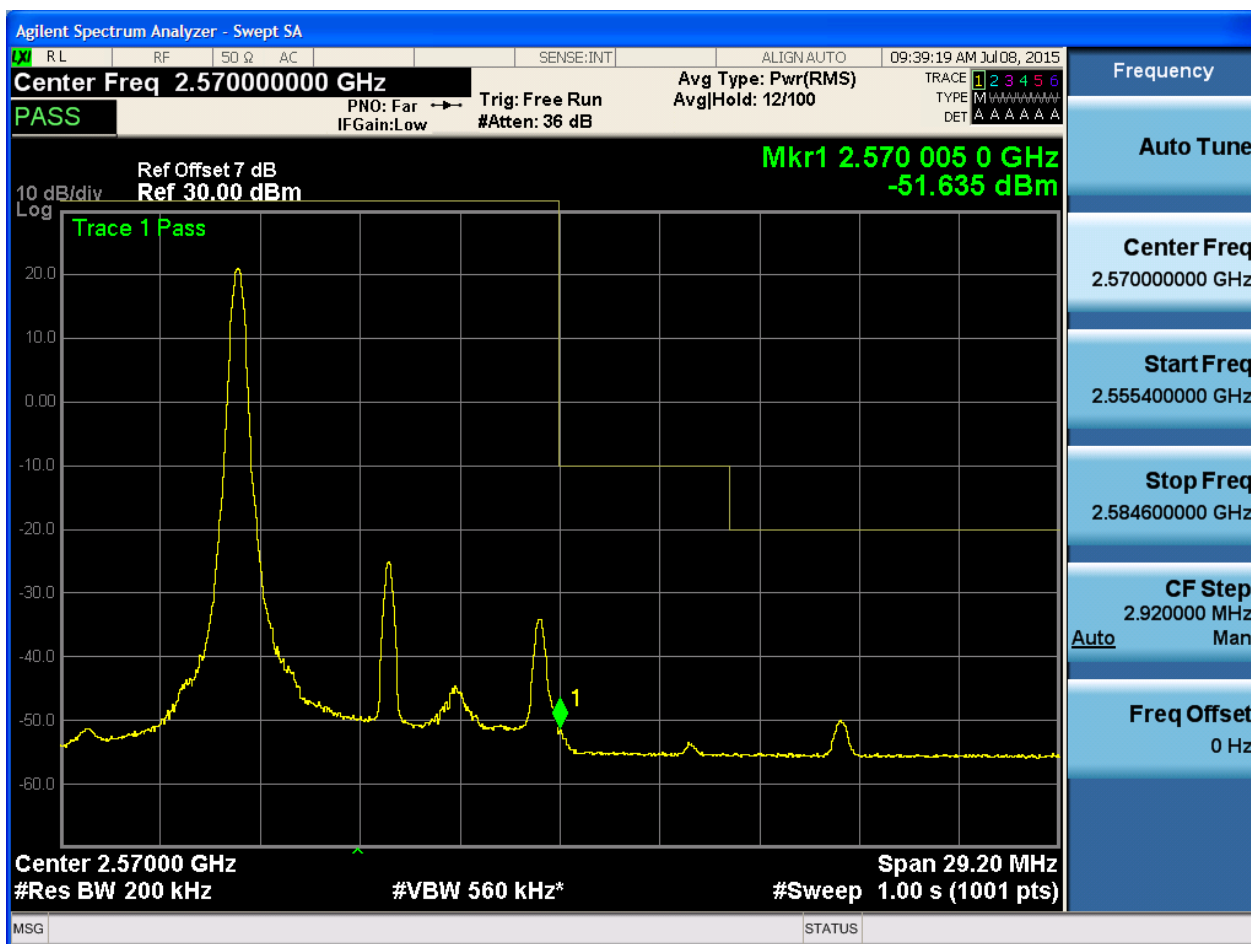


5.1.1.2.2.1.4 Test RB = RB50#0



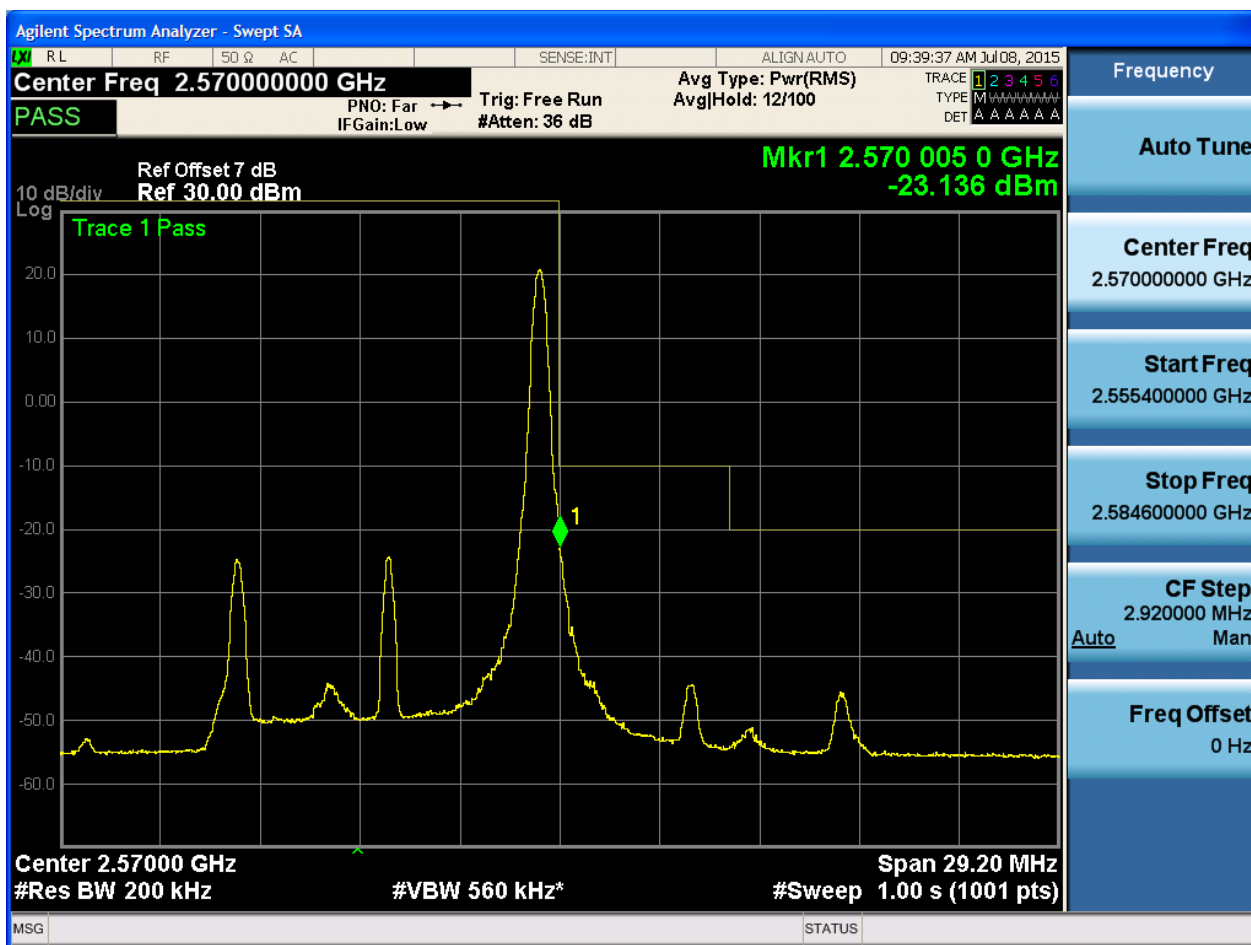
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



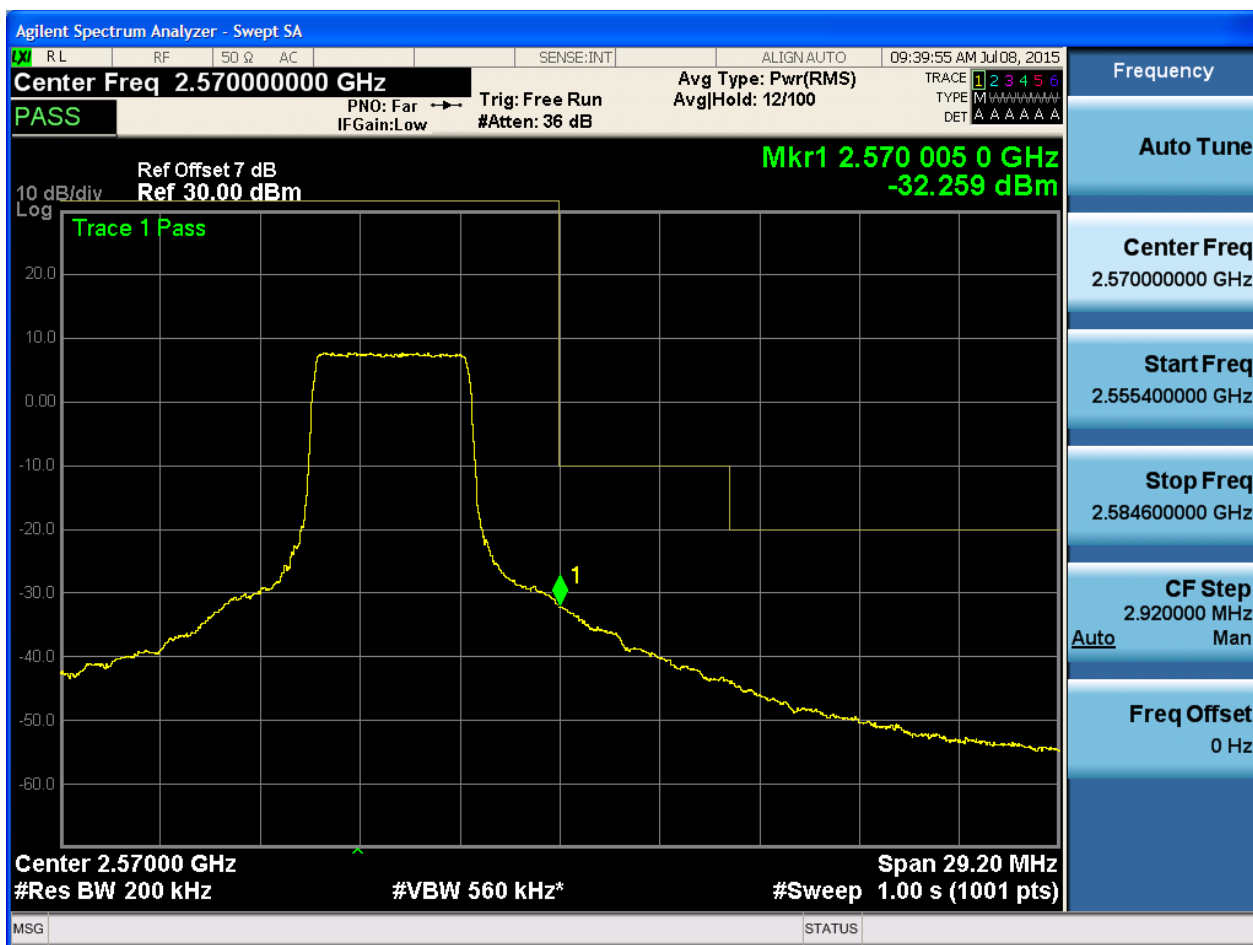


5.1.1.2.2.2 Test RB = RB1#49



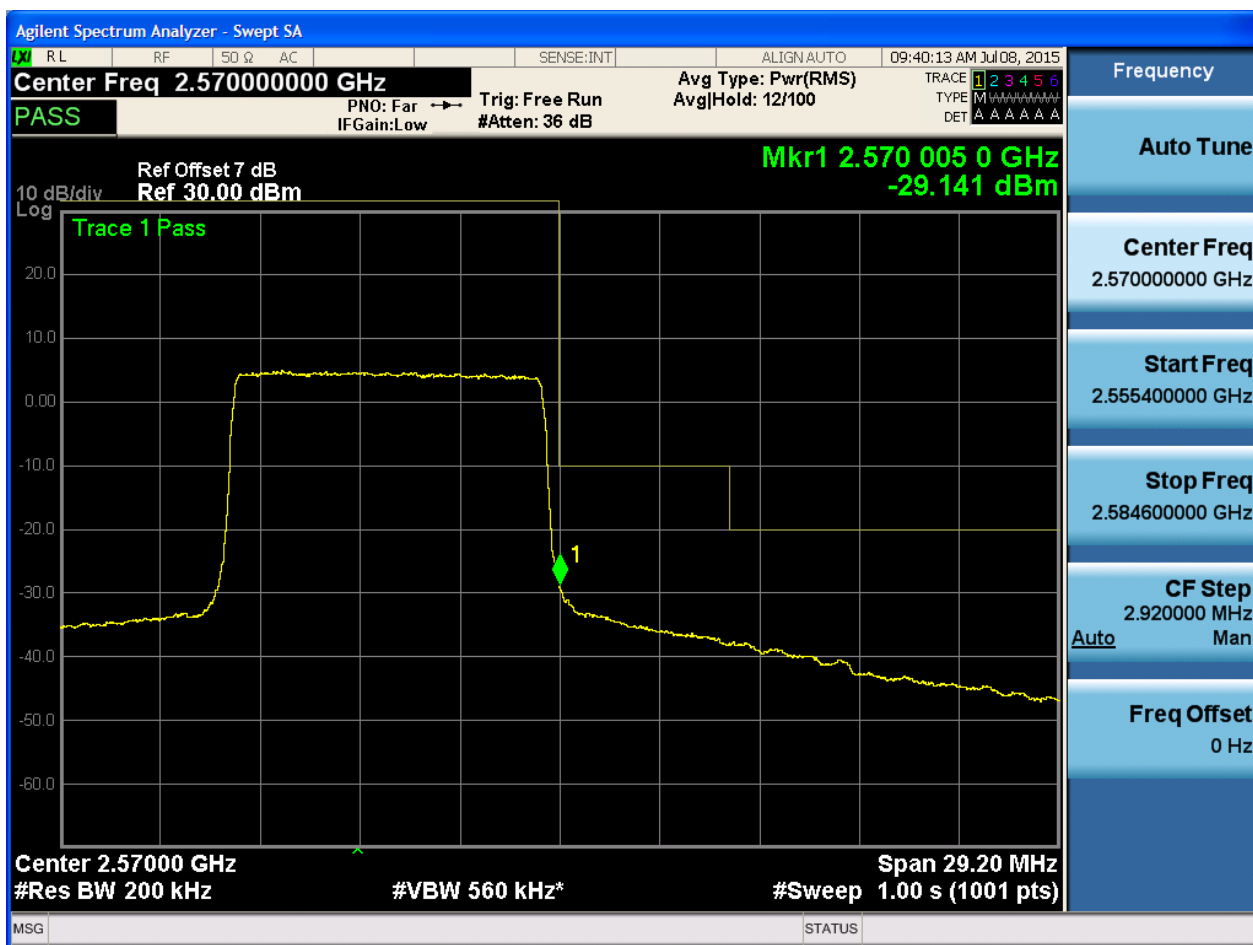


5.1.1.2.2.3 Test RB = RB25#13





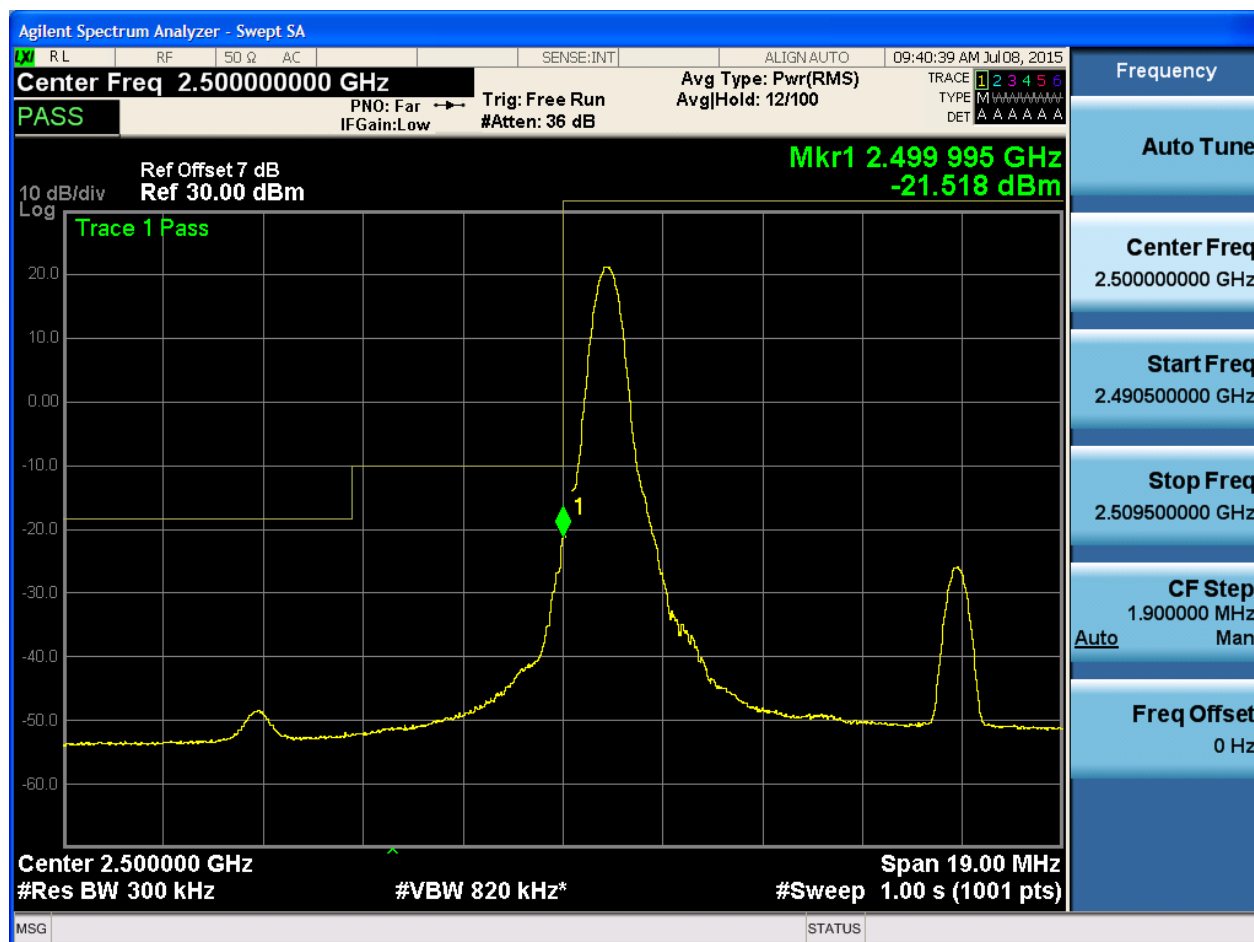
5.1.1.2.2.4 Test RB = RB50#0



5.1.1.2.3 Test Bandwidth = 15

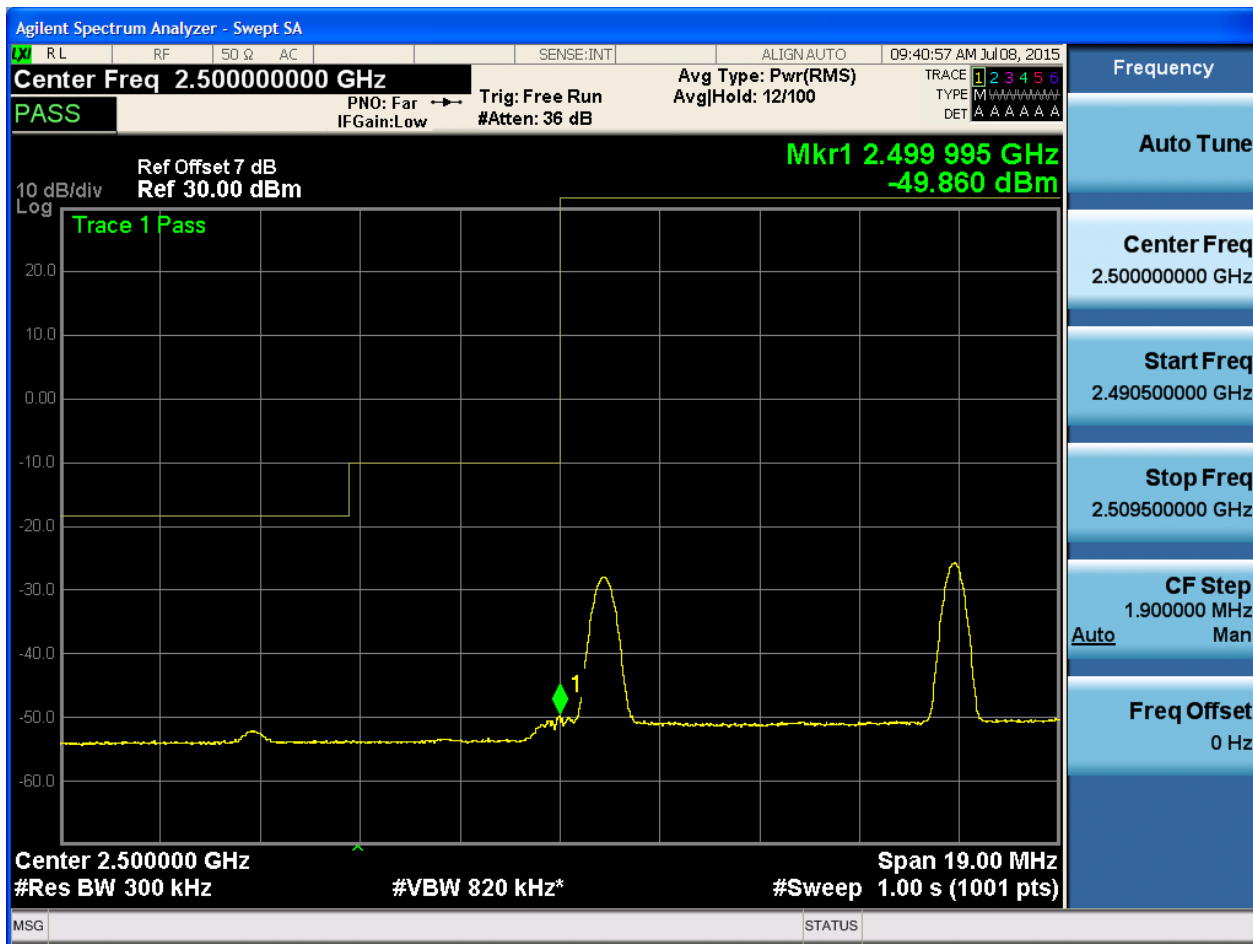
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18



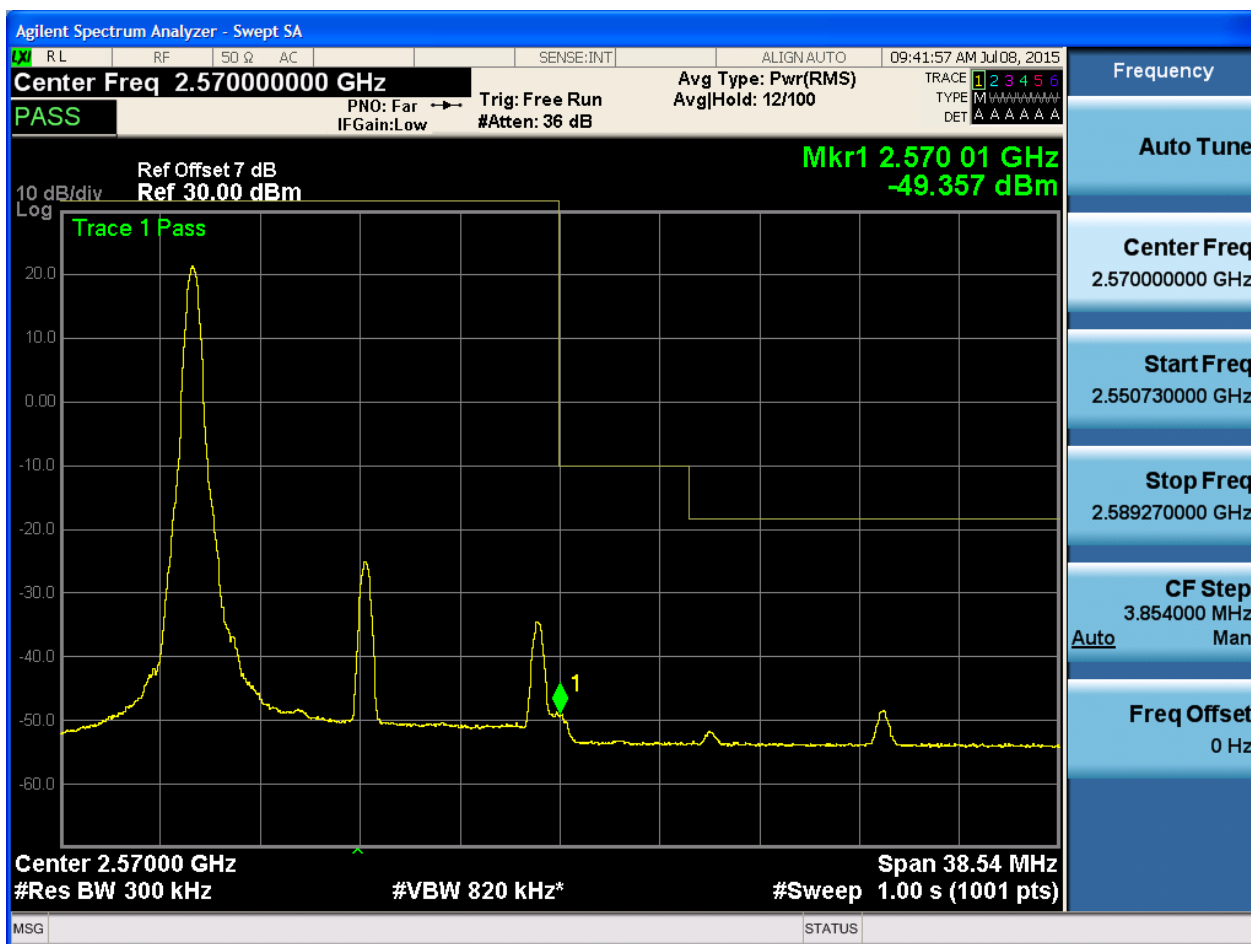


5.1.1.2.3.1.4 Test RB = RB75#0

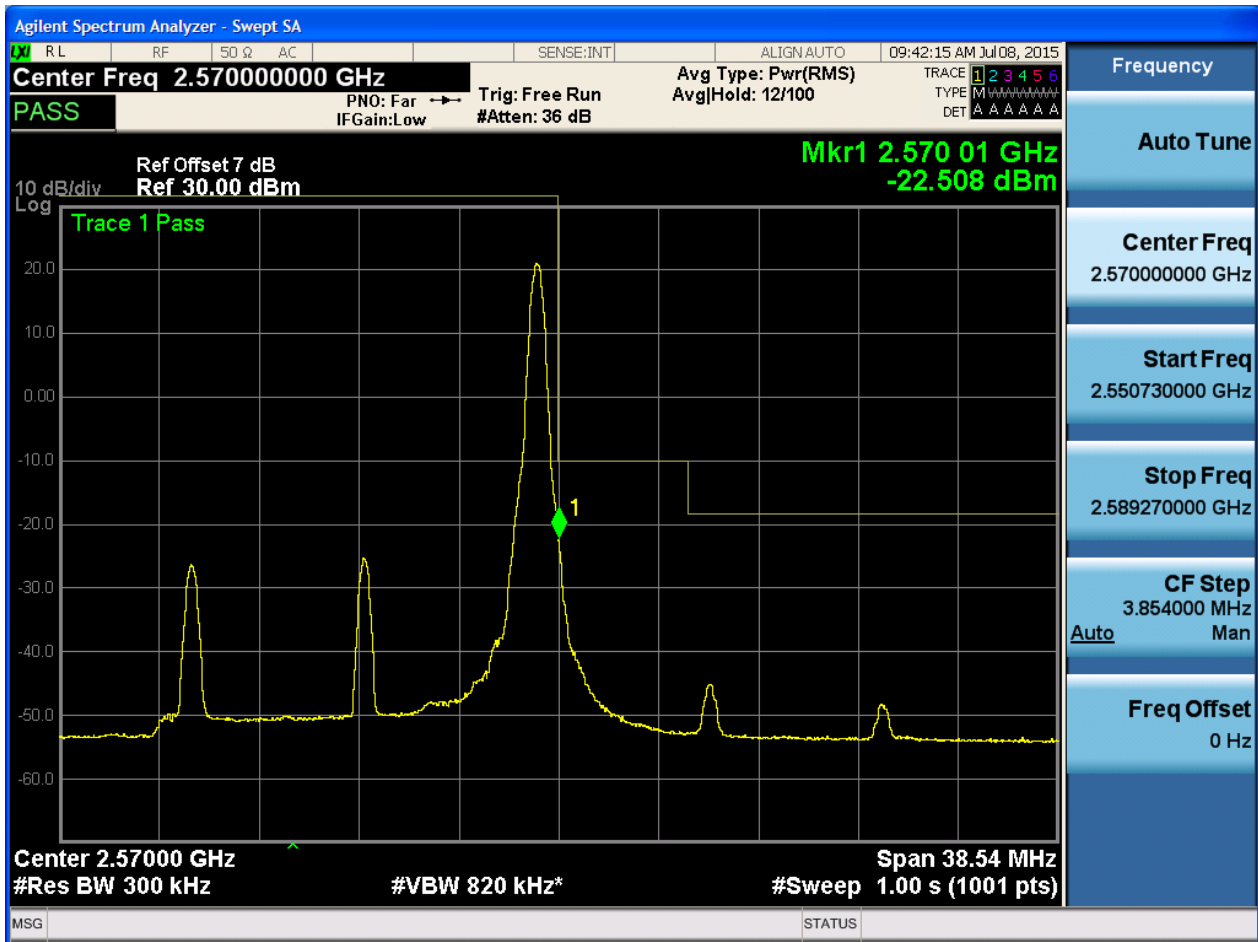


5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0

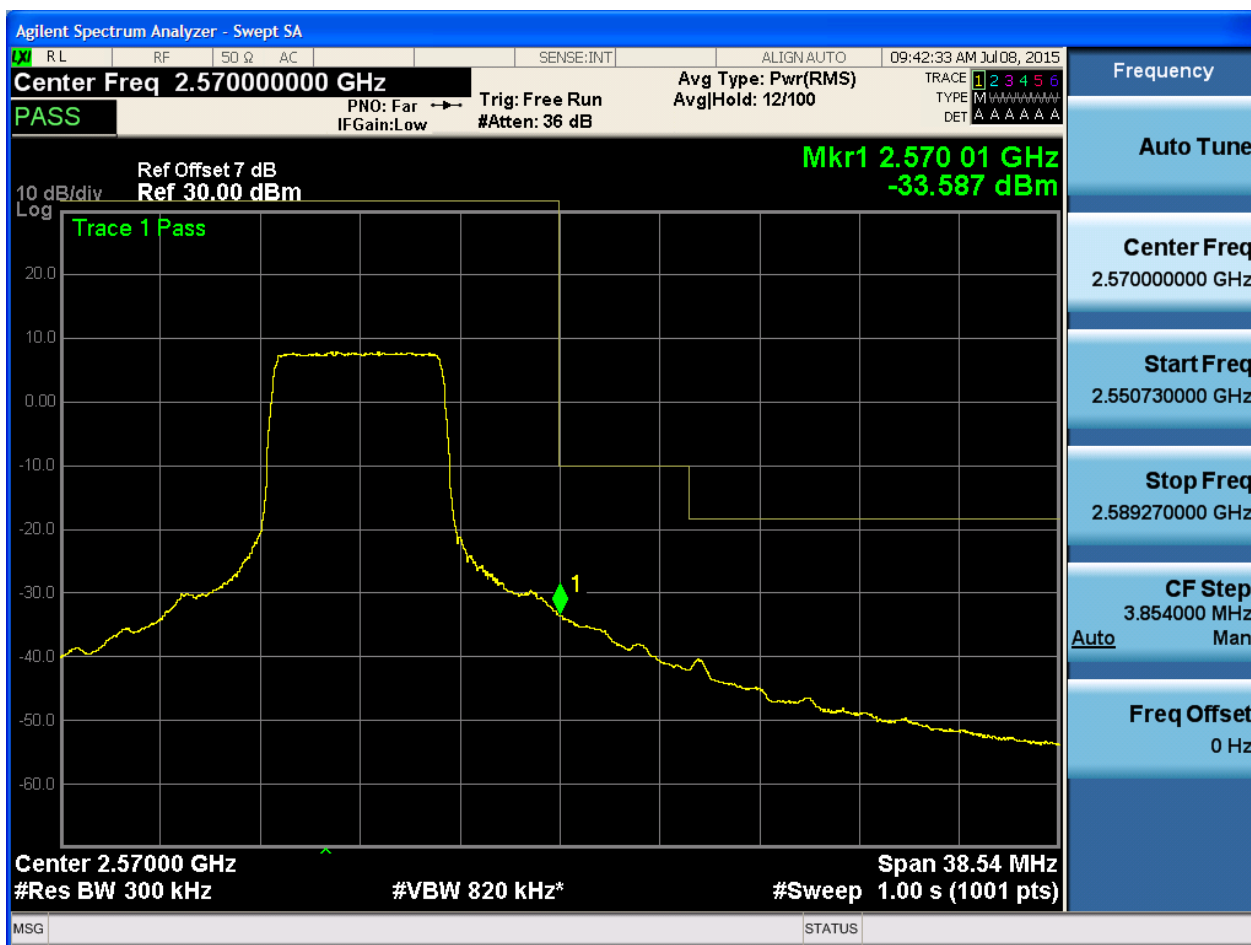


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





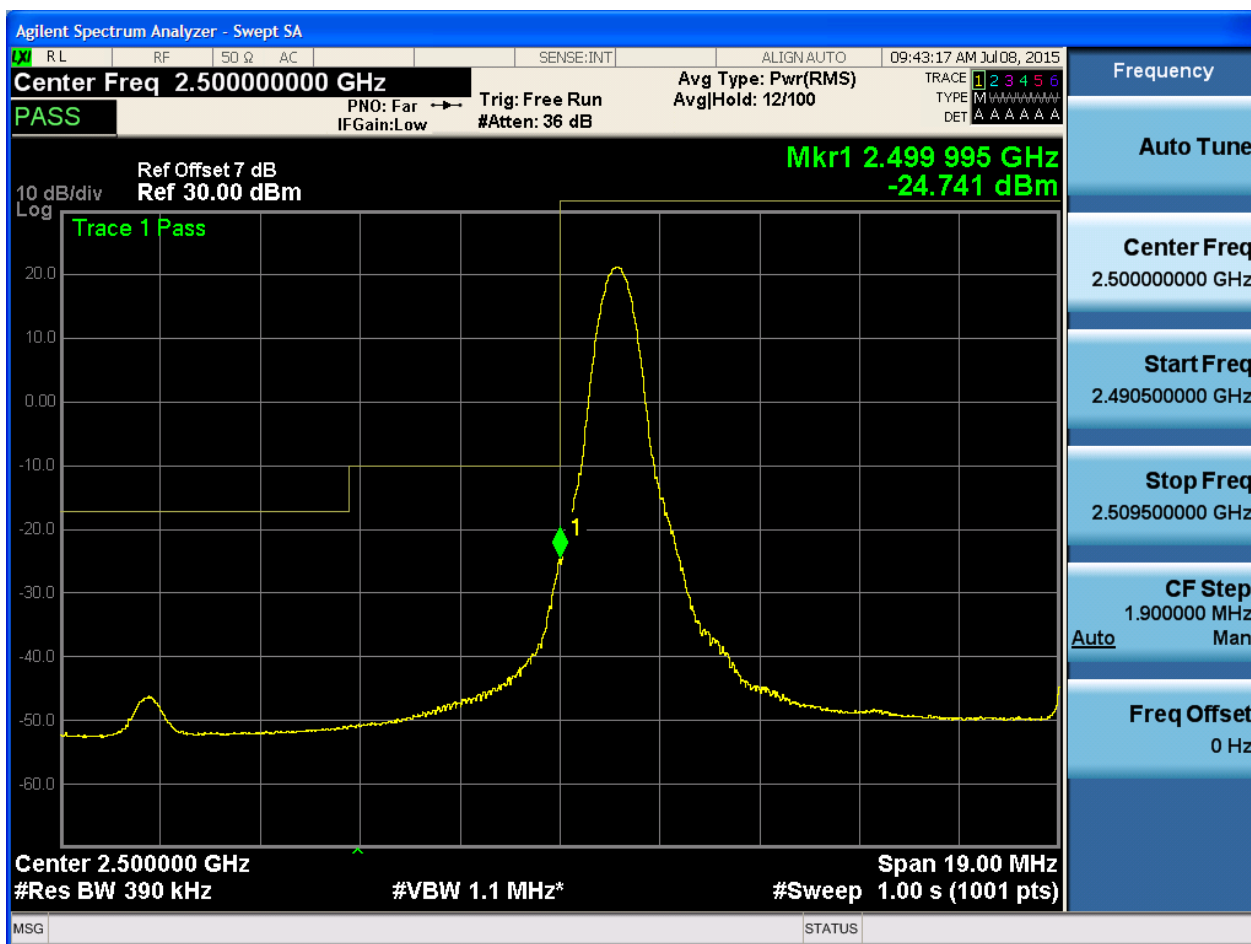
5.1.1.2.3.2.4 Test RB = RB75#0



5.1.1.2.4 Test Bandwidth = 20

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

Avg Type: Pwr(RMS)

Trig: Free Run

Ref Offset 7 dB

Ref 30.00 dBm

Mkr1 2.499 995 GHz

-51.561 dBm

Trace 1 Pass

10 dB/div

Log

Center 2.500000 GHz

#Res BW 390 kHz

#VBW 1.1 MHz*

Span 19.00 MHz

#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq 2.50000000 GHz

Start Freq 2.490500000 GHz

Stop Freq 2.509500000 GHz

CF Step 1.900000 MHz

Man

Freq Offset 0 Hz

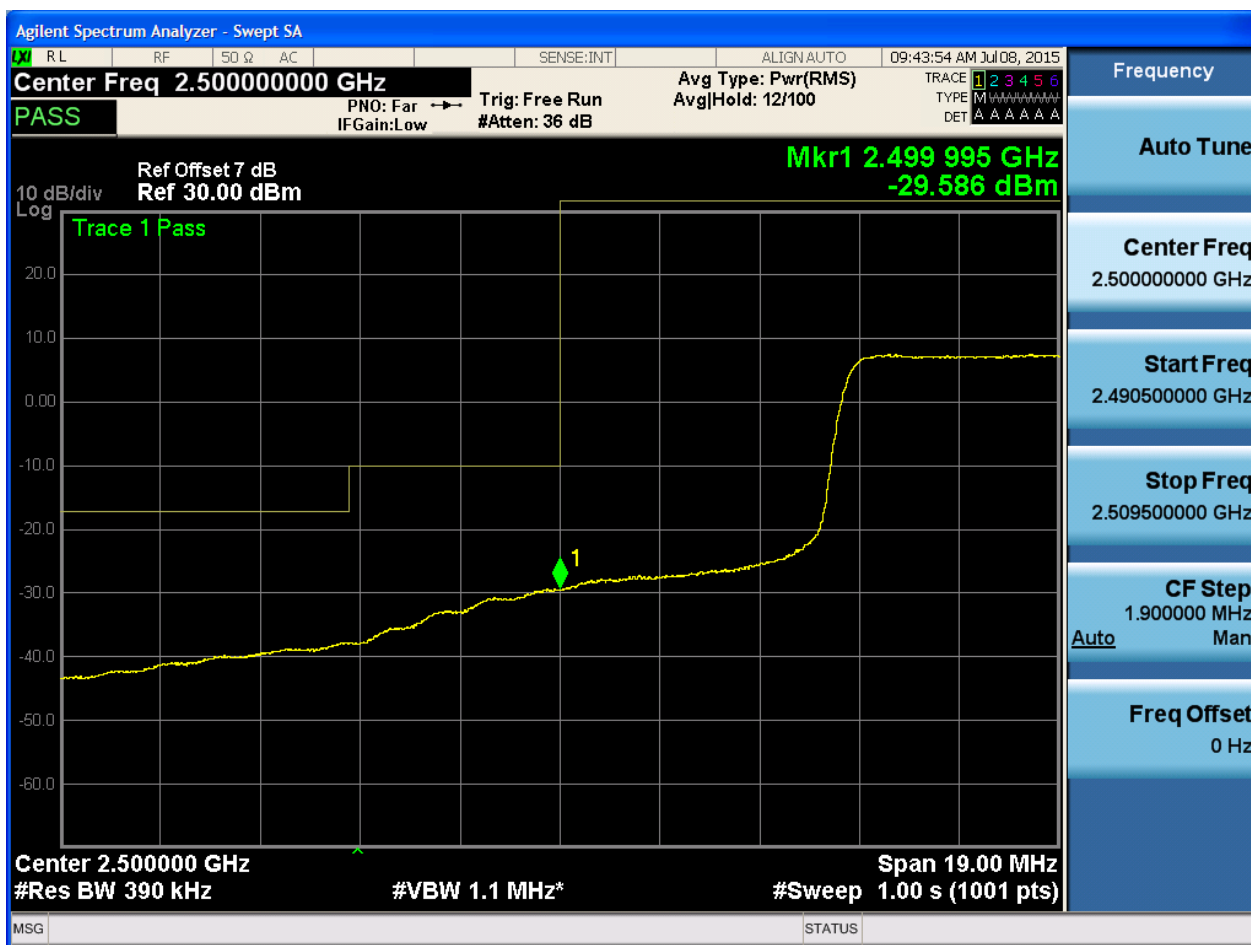
MSG Alignment Completed

STATUS

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-linear plot of power spectral density. The horizontal axis represents frequency, ranging from 2.4905 GHz to 2.5095 GHz. The vertical axis represents power in dBm, ranging from -60 dBm to 20 dBm. A yellow trace shows the spectrum, with a prominent peak at 2.499995 GHz, marked with a green diamond and labeled '1'. The peak power is -51.561 dBm. The trace is labeled 'Trace 1 Pass'. The analyzer is set to 'Center Freq 2.50000000 GHz' and 'Span 19.00 MHz'. The resolution bandwidth is 390 kHz, and the video bandwidth is 1.1 MHz. The sweep time is 1.00 s. The reference level is 30.00 dBm, and the reference offset is 7 dB. The trigger is set to 'Free Run'. The display also shows various status indicators and settings, such as 'PNO: Far', 'IFGain: Low', 'Ave Type: Pwr(RMS)', and 'Trig: Free Run'. The right side of the screen has a blue sidebar with buttons for 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', 'Man', 'Freq Offset', and '0 Hz'. The bottom of the screen shows a message 'MSG Alignment Completed' and a status indicator.

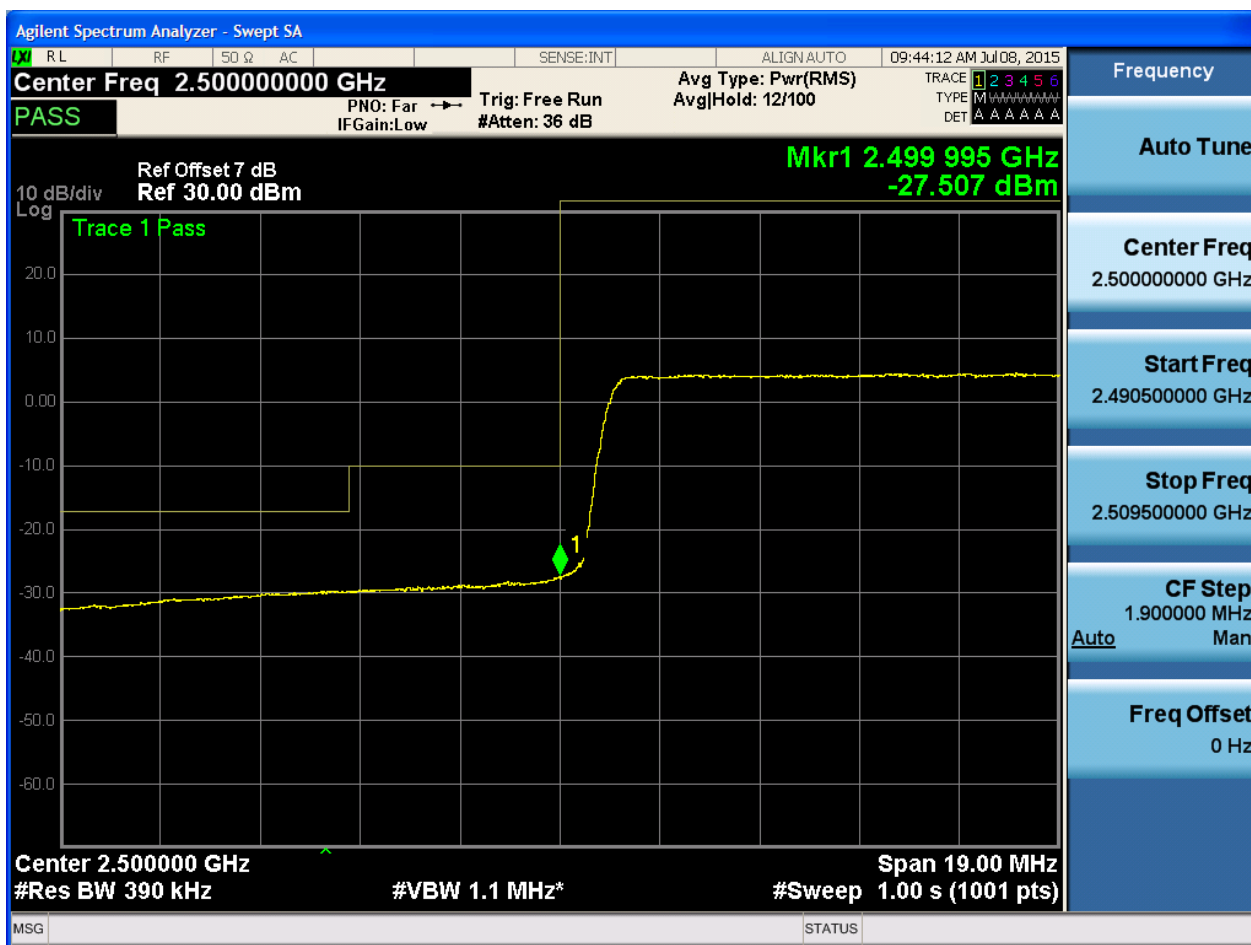


5.1.1.2.4.1.3 Test RB = RB50#25



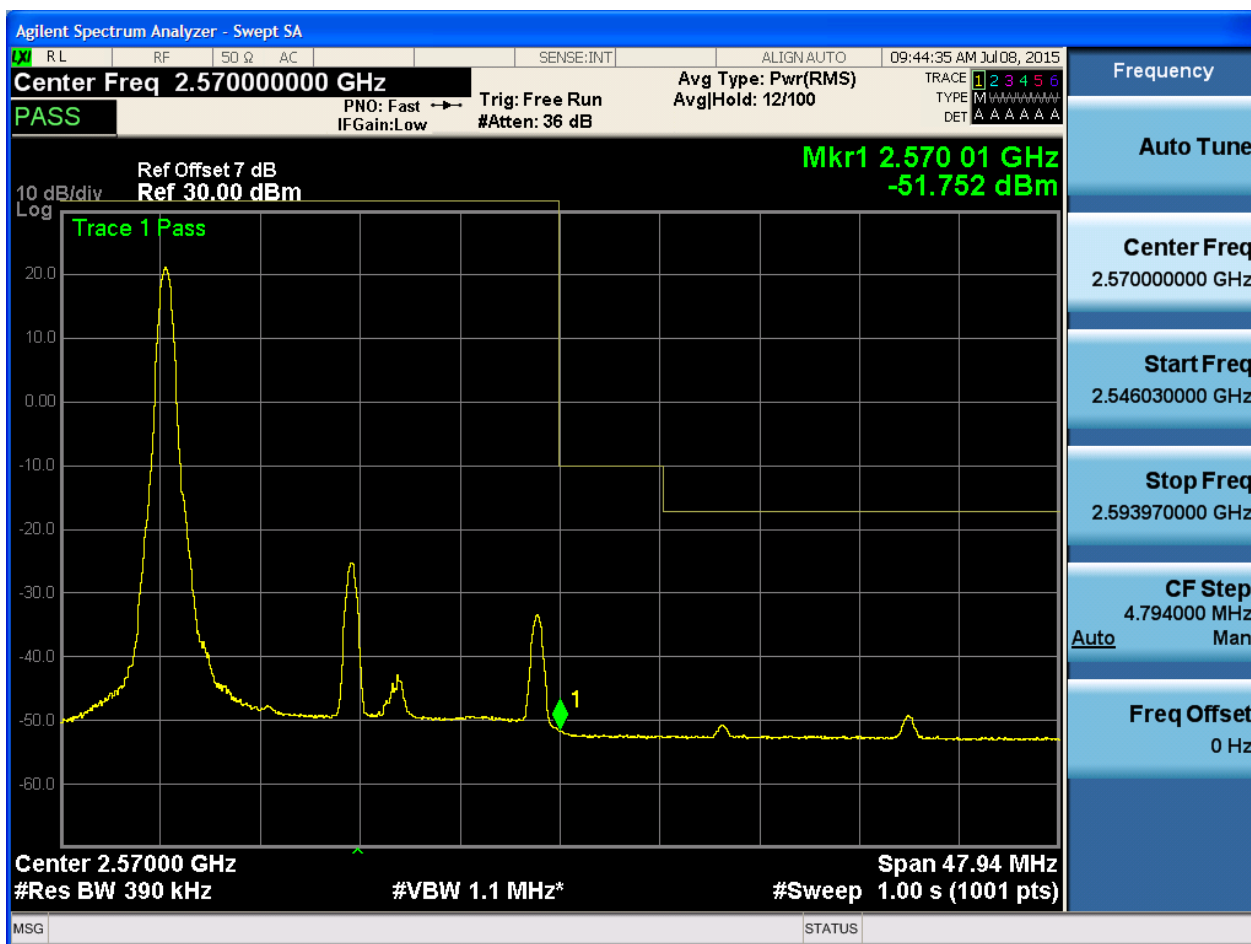


5.1.1.2.4.1.4 Test RB = RB100#0



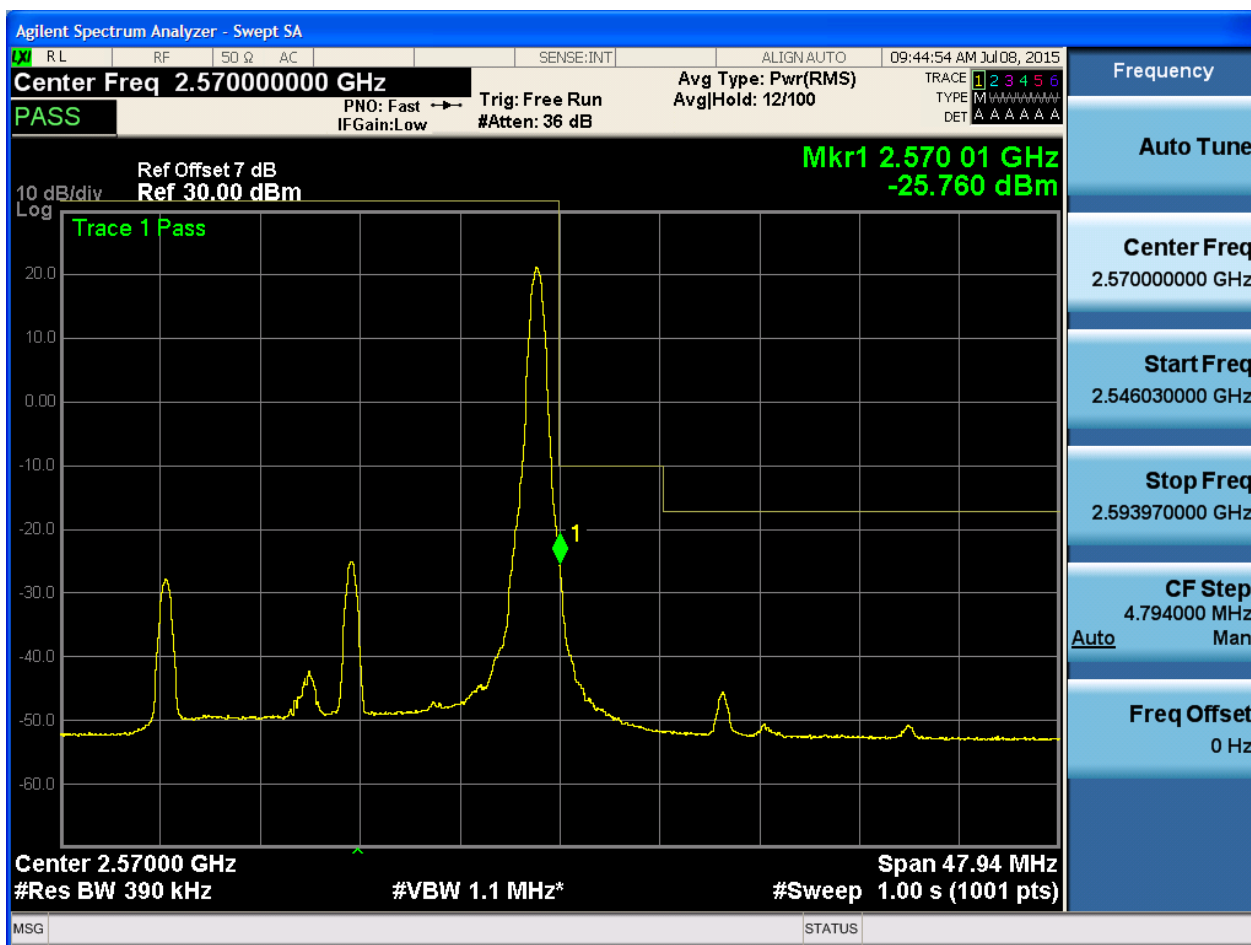
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



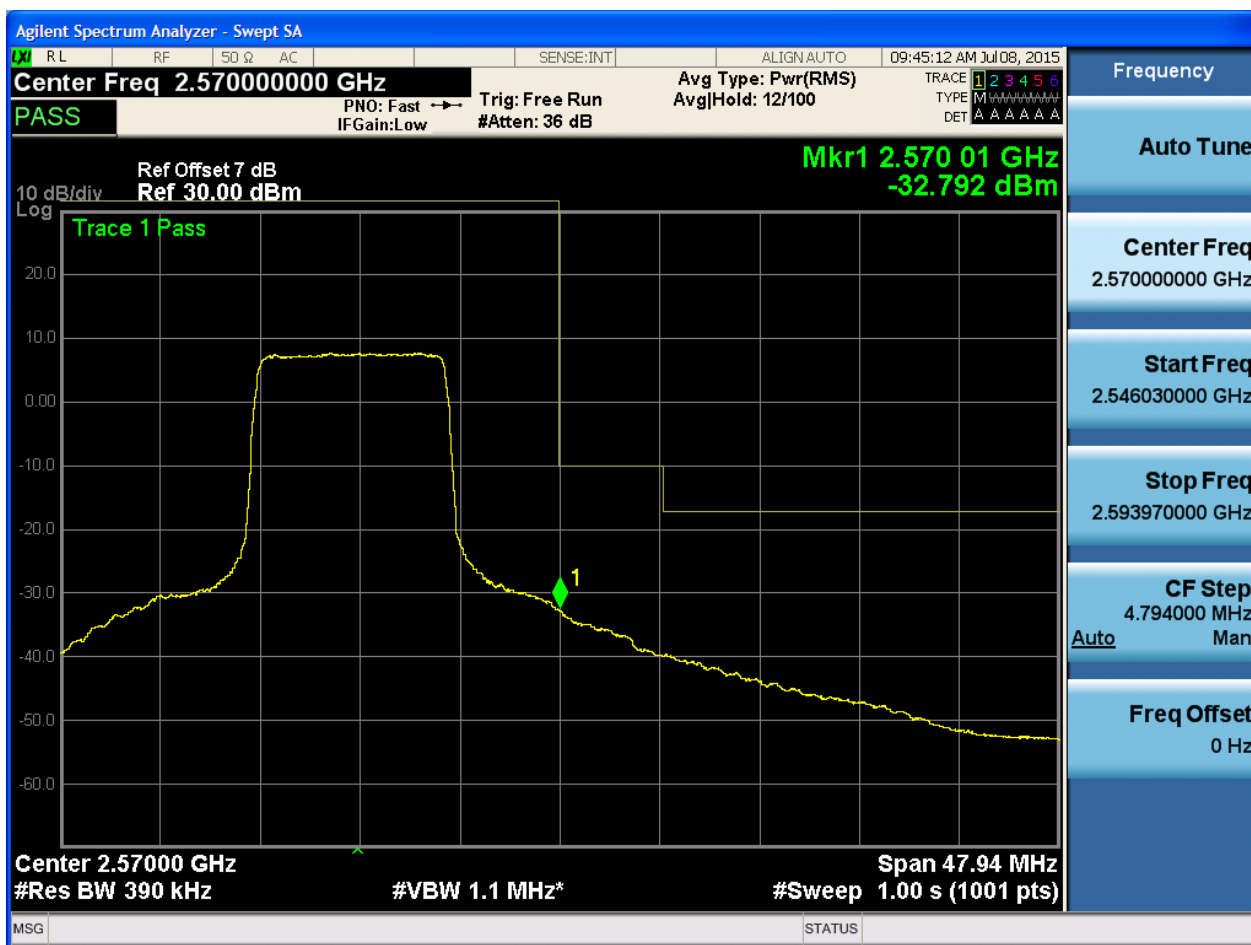


5.1.1.2.4.2.2 Test RB = RB1#99





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

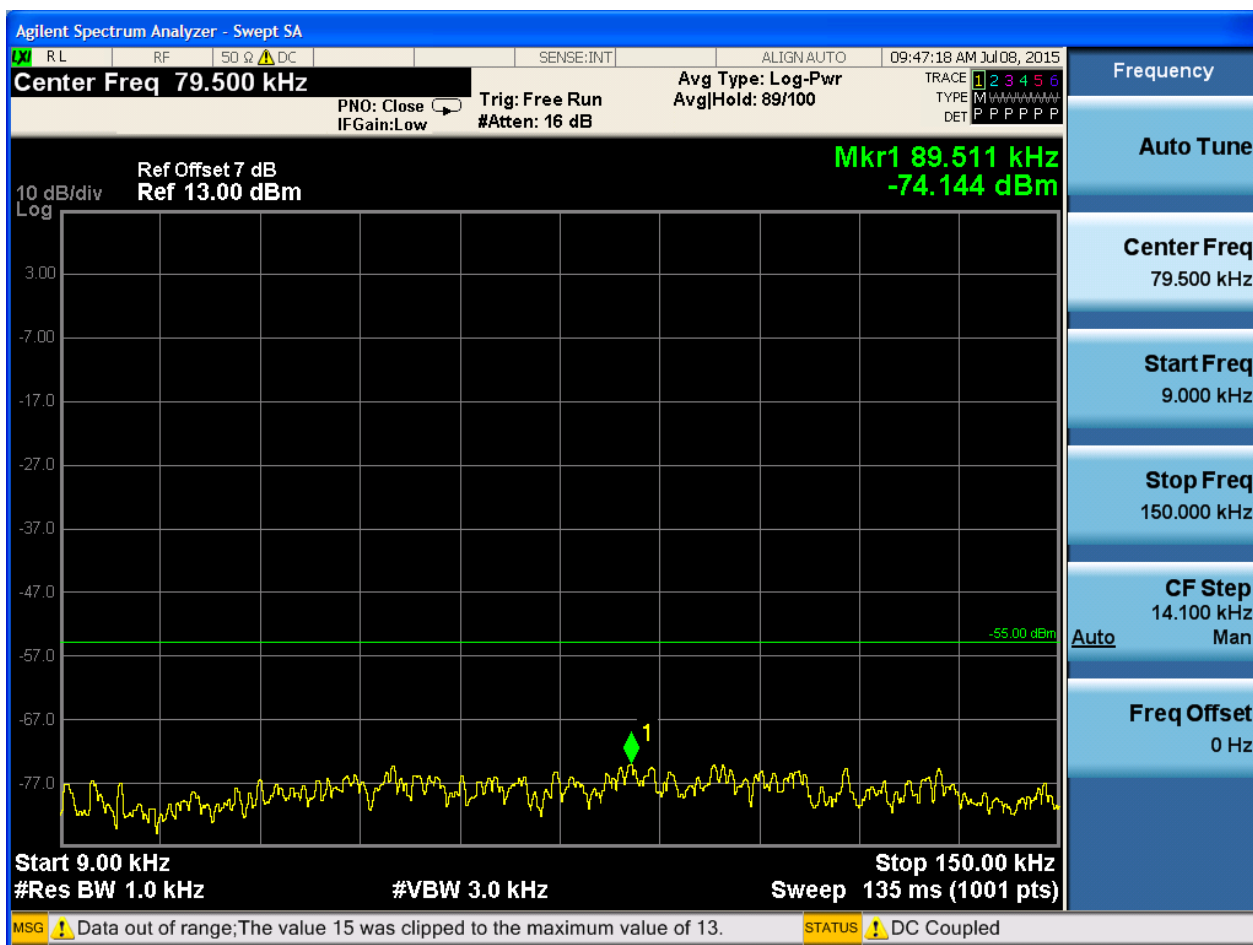
6.1.1 Test Band = BAND7

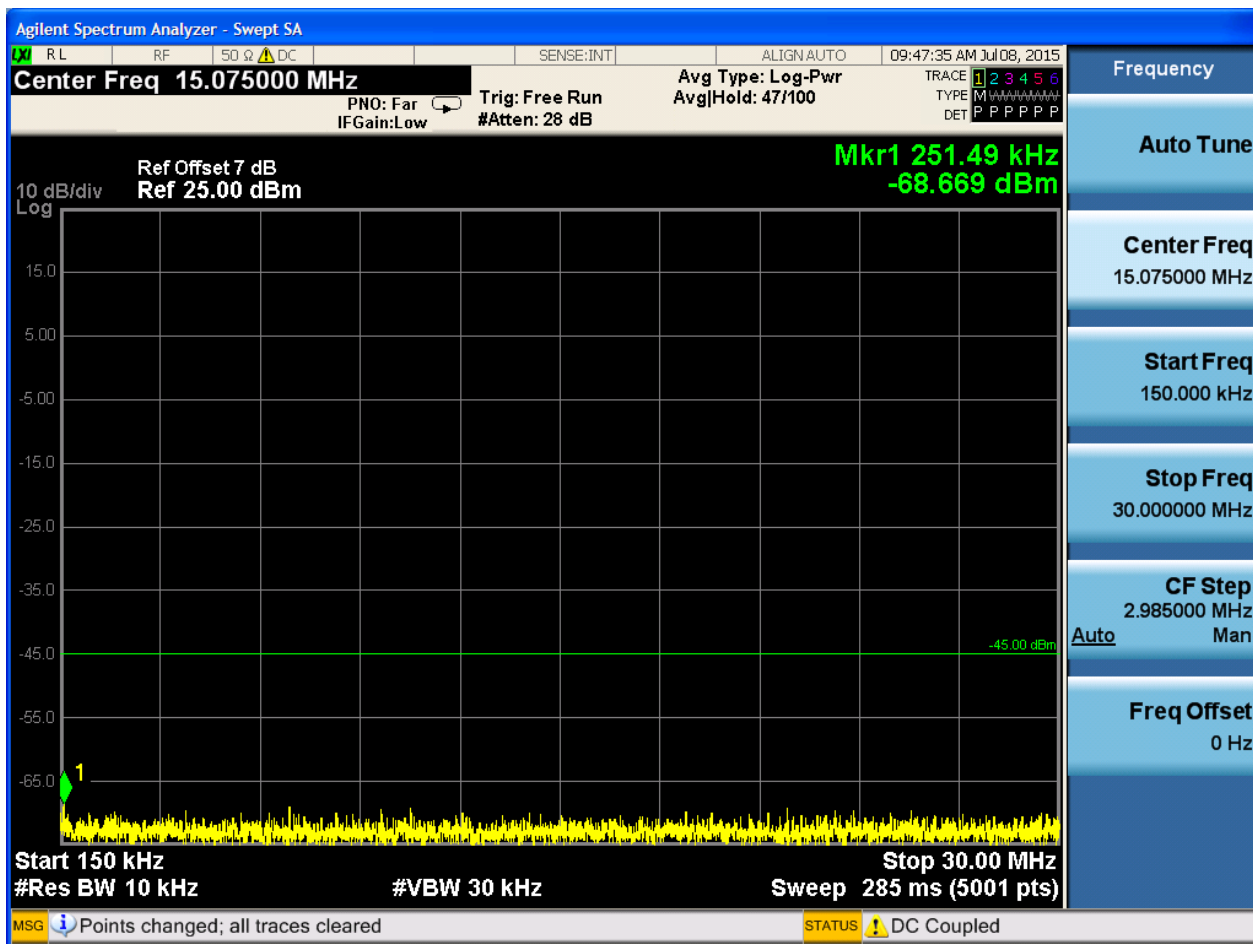
6.1.1.1 Test Mode = LTE/TM1

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



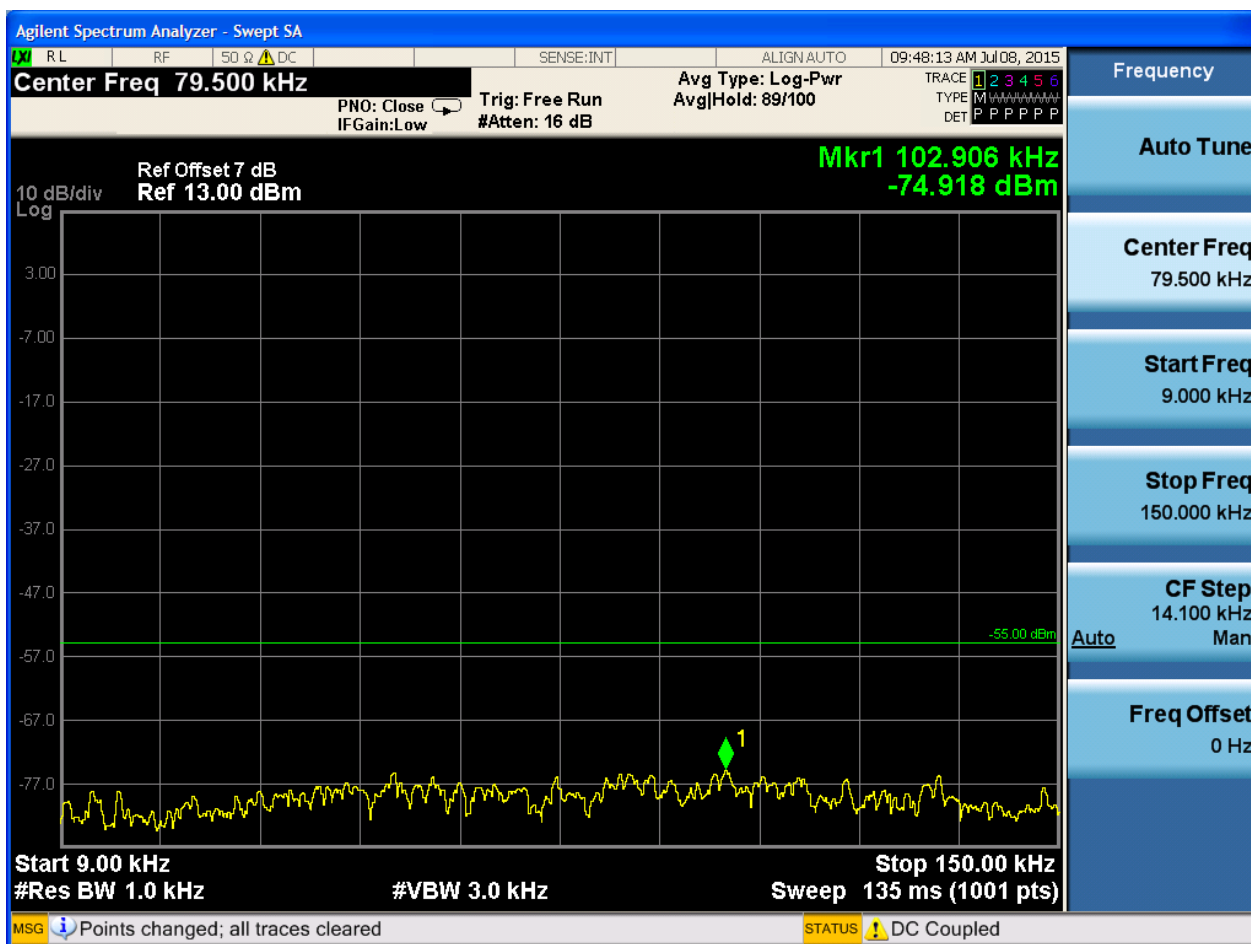


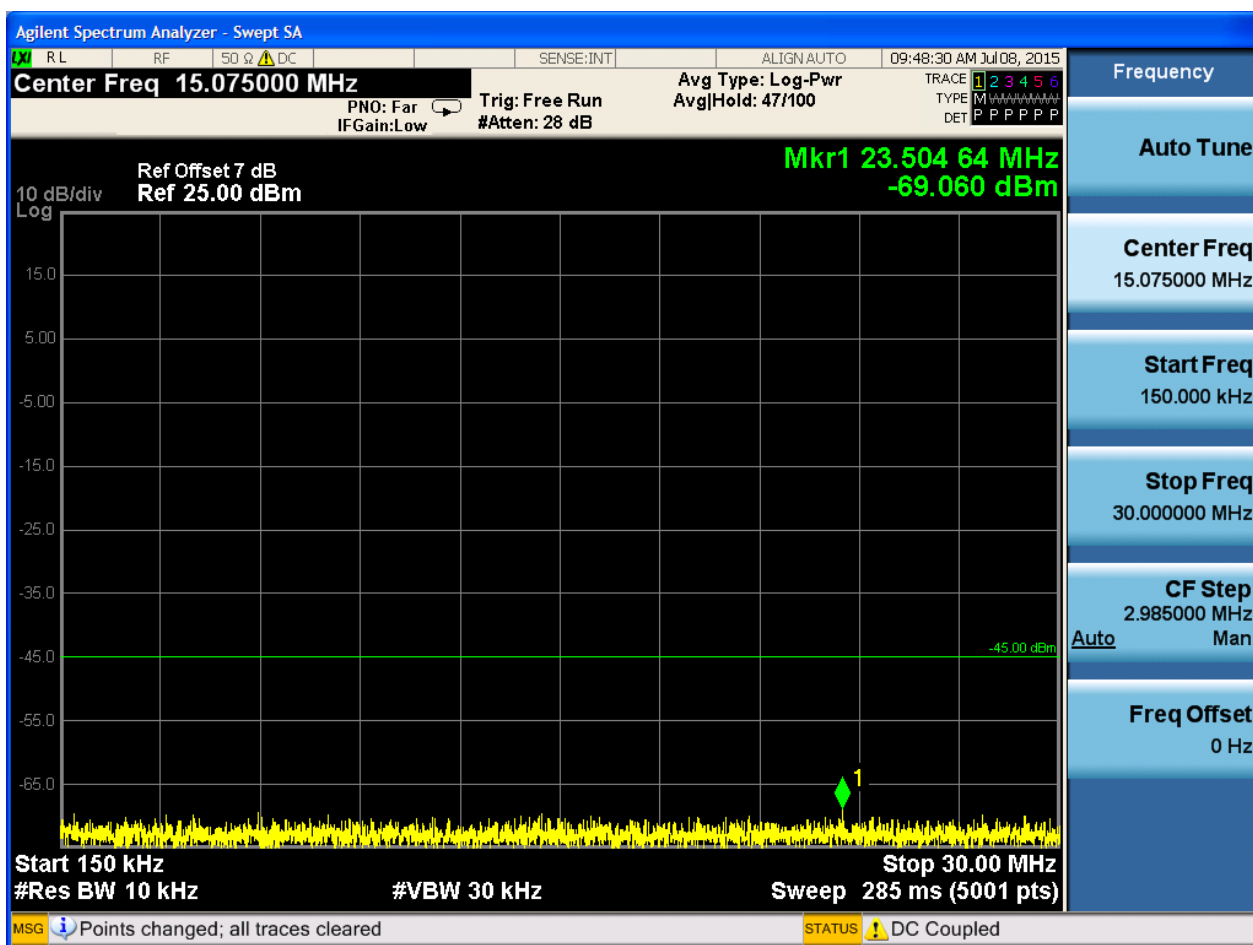


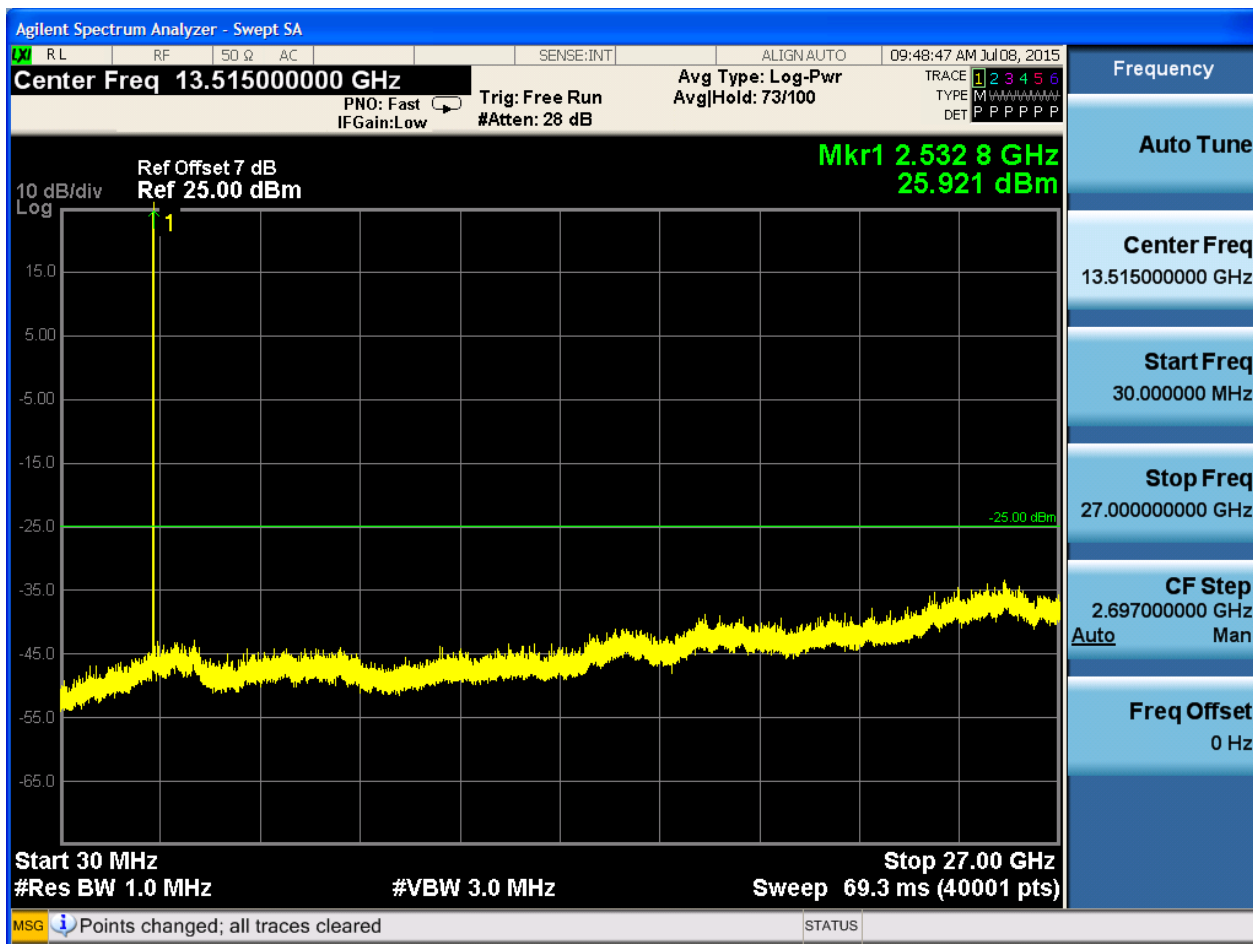


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

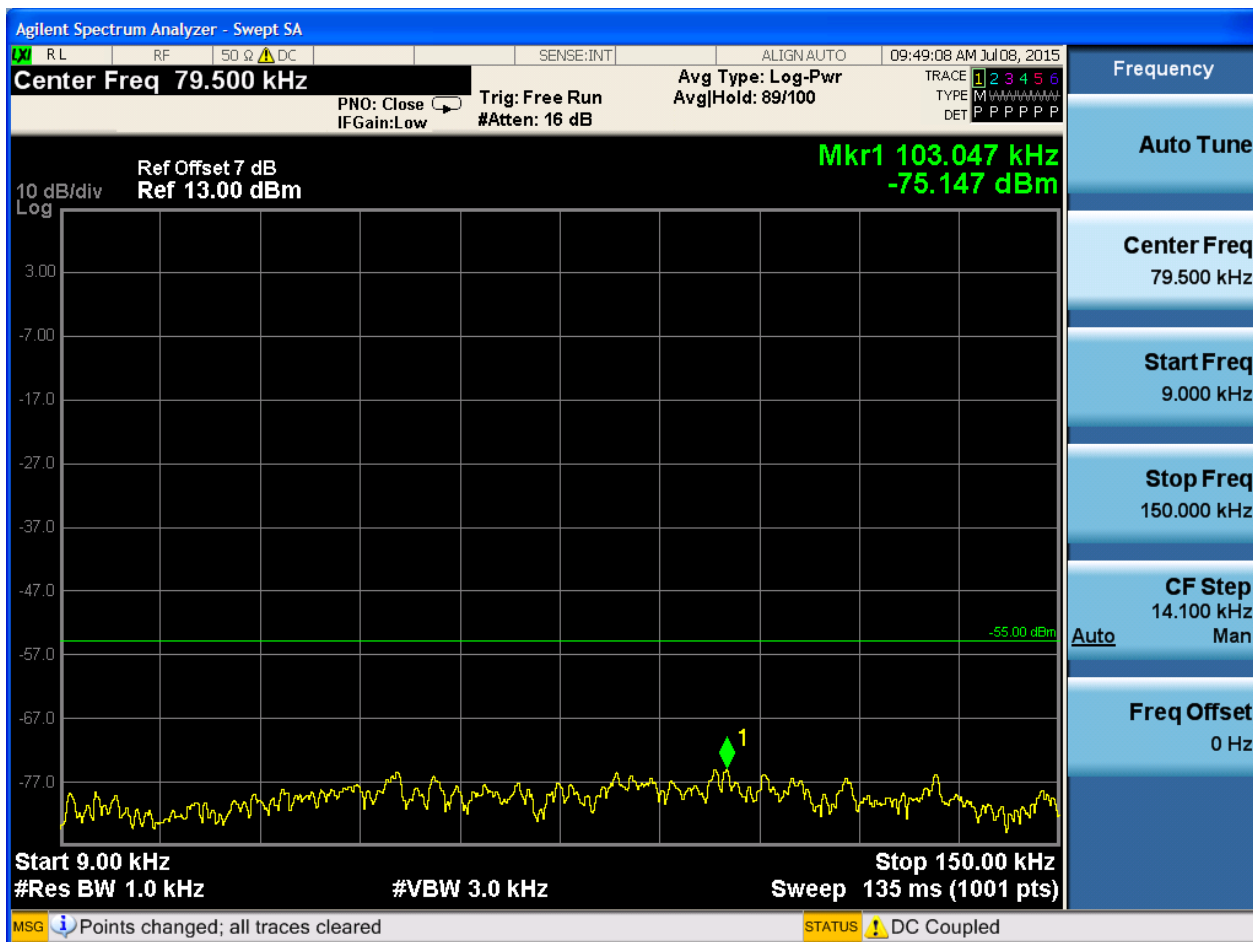


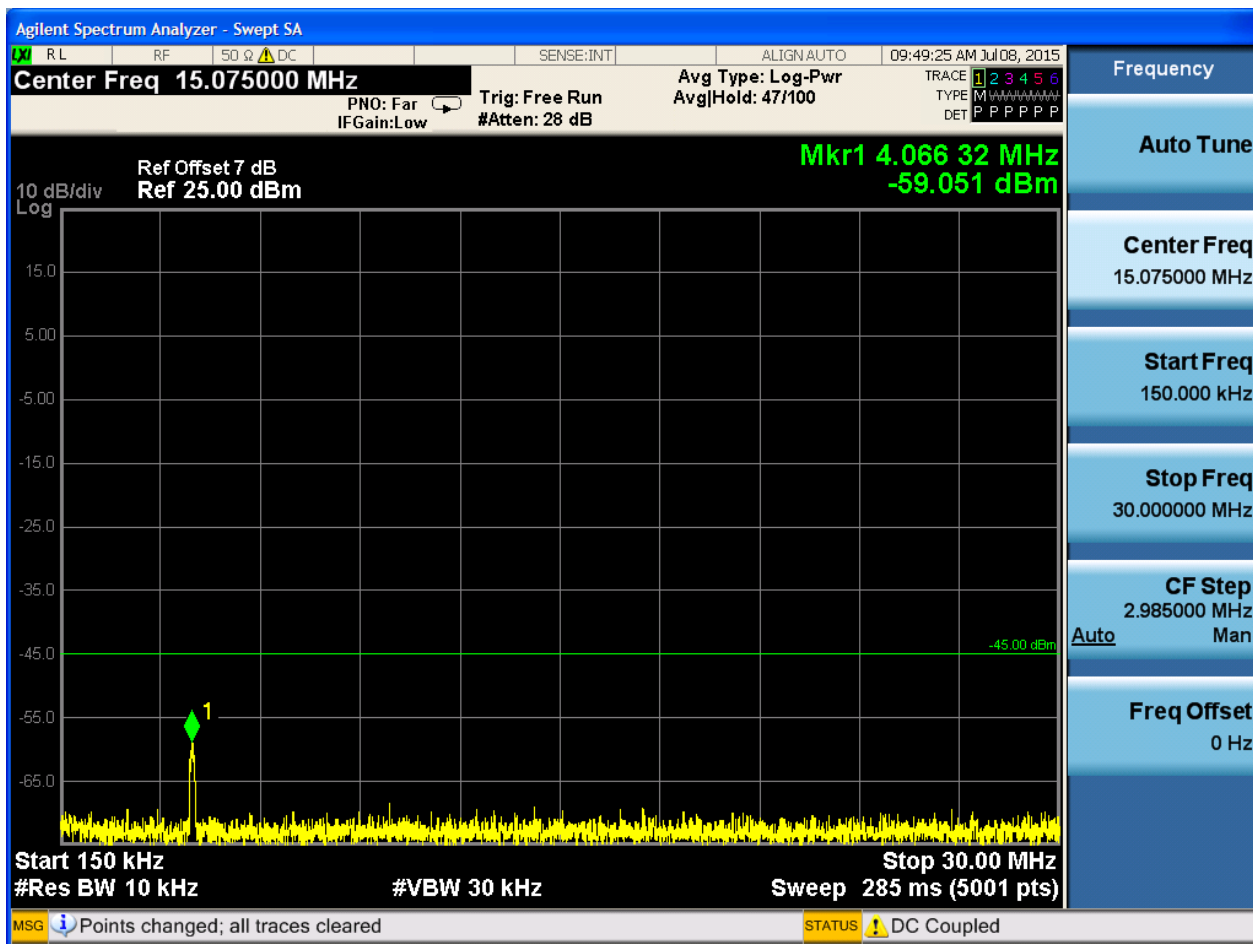


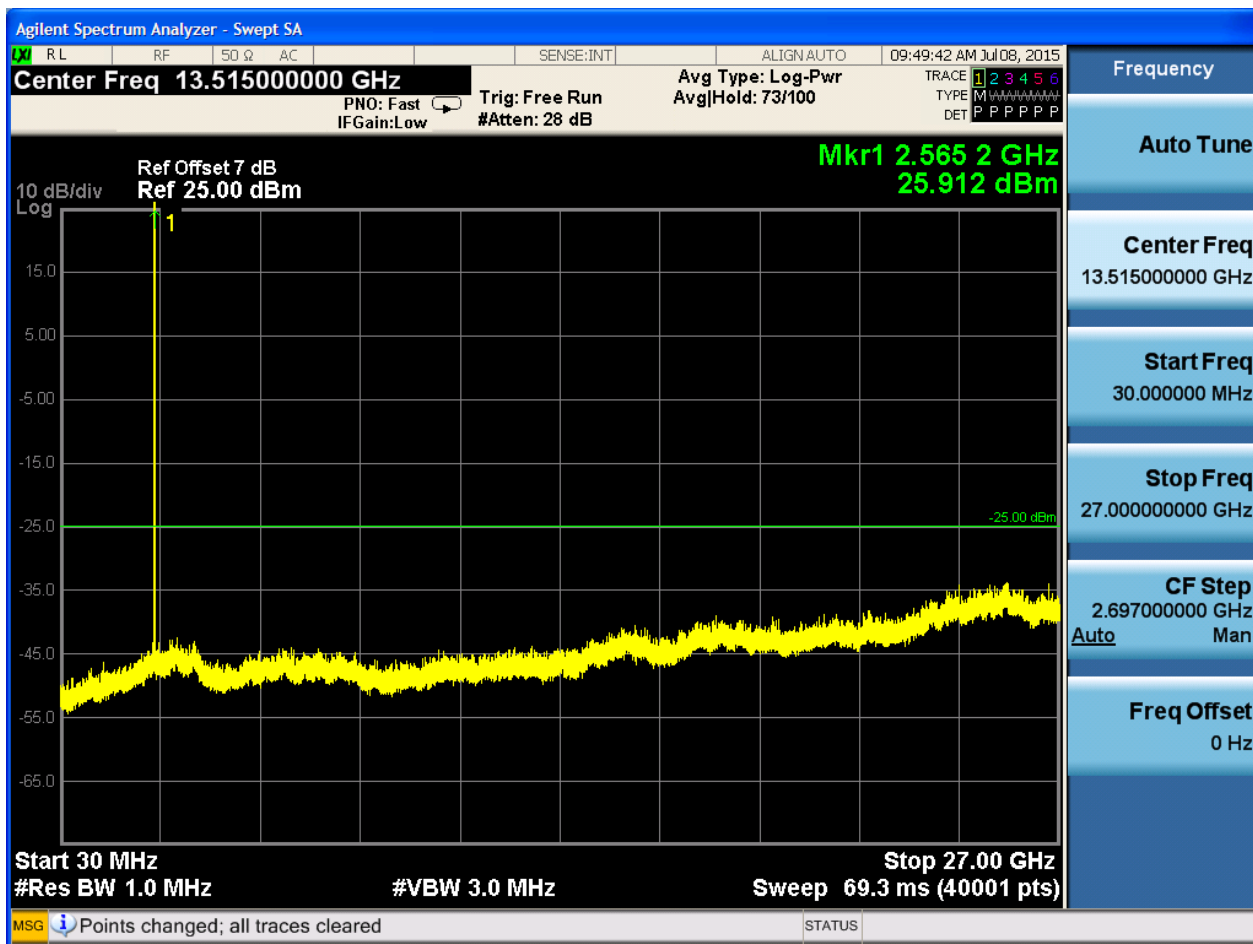


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 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

