



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	21.31	21.81	33	PASS
				RB1#13	21.41	21.91	33	PASS
				RB1#24	20.96	21.46	33	PASS
				RB12#0	20.53	21.03	33	PASS
				RB12#6	20.56	21.06	33	PASS
				RB12#13	20.33	20.83	33	PASS
				RB25#0	20.41	20.91	33	PASS
			MCH	RB1#0	21.39	21.89	33	PASS
				RB1#13	21.54	22.04	33	PASS
				RB1#24	21.04	21.54	33	PASS
				RB12#0	20.56	21.06	33	PASS
				RB12#6	20.56	21.06	33	PASS
				RB12#13	20.39	20.89	33	PASS
				RB25#0	20.49	20.99	33	PASS
			HCH	RB1#0	21.26	21.76	33	PASS
				RB1#13	21.52	22.02	33	PASS
				RB1#24	21.06	21.56	33	PASS
				RB12#0	20.46	20.96	33	PASS
				RB12#6	20.5	21	33	PASS
				RB12#13	20.3	20.8	33	PASS
				RB25#0	20.37	20.87	33	PASS
		10	LCH	RB1#0	21.5	22	33	PASS
				RB1#25	21.69	22.19	33	PASS
				RB1#49	21.17	21.67	33	PASS
				RB25#0	20.32	20.82	33	PASS
				RB25#13	20.39	20.89	33	PASS
				RB25#25	20.18	20.68	33	PASS
				RB50#0	20.14	20.64	33	PASS
			MCH	RB1#0	21.6	22.1	33	PASS
				RB1#25	21.9	22.4	33	PASS
				RB1#49	21.4	21.9	33	PASS
				RB25#0	20.52	21.02	33	PASS

				RB25#13	20.56	21.06	33	PASS
				RB25#25	20.37	20.87	33	PASS
				RB50#0	20.47	20.97	33	PASS
			HCH	RB1#0	21.55	22.05	33	PASS
				RB1#25	21.88	22.38	33	PASS
				RB1#49	21.46	21.96	33	PASS
				RB25#0	20.31	20.81	33	PASS
				RB25#13	20.42	20.92	33	PASS
				RB25#25	20.31	20.81	33	PASS
				RB50#0	20.36	20.86	33	PASS
		15	LCH	RB1#0	20.88	21.38	33	PASS
				RB1#38	21.27	21.77	33	PASS
				RB1#74	20.7	21.2	33	PASS
				RB36#0	20.19	20.69	33	PASS
				RB36#18	20.3	20.8	33	PASS
				RB36#39	20.14	20.64	33	PASS
				RB75#0	20.16	20.66	33	PASS
			MCH	RB1#0	21.03	21.53	33	PASS
				RB1#38	21.52	22.02	33	PASS
				RB1#74	20.77	21.27	33	PASS
				RB36#0	20.42	20.92	33	PASS
				RB36#18	20.46	20.96	33	PASS
				RB36#39	20.22	20.72	33	PASS
				RB75#0	20.35	20.85	33	PASS
			HCH	RB1#0	20.99	21.49	33	PASS
				RB1#38	21.45	21.95	33	PASS
				RB1#74	20.92	21.42	33	PASS
				RB36#0	20.25	20.75	33	PASS
				RB36#18	20.39	20.89	33	PASS
				RB36#39	20.28	20.78	33	PASS
				RB75#0	20.36	20.86	33	PASS
		20	LCH	RB1#0	20.71	21.21	33	PASS
				RB1#50	21.3	21.8	33	PASS
				RB1#99	20.87	21.37	33	PASS
				RB50#0	20.19	20.69	33	PASS
				RB50#25	20.34	20.84	33	PASS
				RB50#50	20.24	20.74	33	PASS
				RB100#0	20.22	20.72	33	PASS
			MCH	RB1#0	20.82	21.32	33	PASS
				RB1#50	21.55	22.05	33	PASS
				RB1#99	20.85	21.35	33	PASS

	LTE/TM2			RB50#0	20.54	21.04	33	PASS
				RB50#25	20.52	21.02	33	PASS
				RB50#50	20.23	20.73	33	PASS
				RB100#0	20.41	20.91	33	PASS
			HCH	RB1#0	20.86	21.36	33	PASS
				RB1#50	21.51	22.01	33	PASS
				RB1#99	20.98	21.48	33	PASS
				RB50#0	20.34	20.84	33	PASS
				RB50#25	20.5	21	33	PASS
				RB50#50	20.3	20.8	33	PASS
				RB100#0	20.41	20.91	33	PASS
		5	LCH	RB1#0	20.51	21.01	33	PASS
				RB1#13	20.48	20.98	33	PASS
				RB1#24	20.11	20.61	33	PASS
				RB12#0	19.97	20.47	33	PASS
				RB12#6	20	20.5	33	PASS
				RB12#13	19.78	20.28	33	PASS
				RB25#0	19.89	20.39	33	PASS
			MCH	RB1#0	20.69	21.19	33	PASS
				RB1#13	20.86	21.36	33	PASS
				RB1#24	20.35	20.85	33	PASS
				RB12#0	20.07	20.57	33	PASS
				RB12#6	20.08	20.58	33	PASS
				RB12#13	19.89	20.39	33	PASS
				RB25#0	19.99	20.49	33	PASS
			HCH	RB1#0	20.73	21.23	33	PASS
				RB1#13	20.94	21.44	33	PASS
				RB1#24	20.5	21	33	PASS
				RB12#0	20.03	20.53	33	PASS
				RB12#6	20.02	20.52	33	PASS
				RB12#13	19.81	20.31	33	PASS
				RB25#0	19.92	20.42	33	PASS
		10	LCH	RB1#0	20.6	21.1	33	PASS
				RB1#25	20.88	21.38	33	PASS
				RB1#49	20.38	20.88	33	PASS
				RB25#0	19.91	20.41	33	PASS
				RB25#13	19.94	20.44	33	PASS
				RB25#25	19.73	20.23	33	PASS
				RB50#0	19.74	20.24	33	PASS
			MCH	RB1#0	20.78	21.28	33	PASS
				RB1#25	21.04	21.54	33	PASS

				RB1#49	20.52	21.02	33	PASS
				RB25#0	20.02	20.52	33	PASS
				RB25#13	20.07	20.57	33	PASS
				RB25#25	19.9	20.4	33	PASS
				RB50#0	20	20.5	33	PASS
			HCH	RB1#0	20.91	21.41	33	PASS
				RB1#25	21.12	21.62	33	PASS
				RB1#49	20.62	21.12	33	PASS
				RB25#0	19.83	20.33	33	PASS
				RB25#13	19.92	20.42	33	PASS
				RB25#25	19.8	20.3	33	PASS
				RB50#0	19.87	20.37	33	PASS
		15	LCH	RB1#0	20.1	20.6	33	PASS
				RB1#38	20.38	20.88	33	PASS
				RB1#74	19.84	20.34	33	PASS
				RB36#0	19.72	20.22	33	PASS
				RB36#18	19.85	20.35	33	PASS
				RB36#39	19.7	20.2	33	PASS
				RB75#0	19.64	20.14	33	PASS
			MCH	RB1#0	20.35	20.85	33	PASS
				RB1#38	20.84	21.34	33	PASS
				RB1#74	20.06	20.56	33	PASS
				RB36#0	19.93	20.43	33	PASS
				RB36#18	20.03	20.53	33	PASS
				RB36#39	19.78	20.28	33	PASS
				RB75#0	19.89	20.39	33	PASS
			HCH	RB1#0	20.22	20.72	33	PASS
				RB1#38	20.65	21.15	33	PASS
				RB1#74	20.06	20.56	33	PASS
				RB36#0	19.77	20.27	33	PASS
				RB36#18	19.93	20.43	33	PASS
				RB36#39	19.76	20.26	33	PASS
				RB75#0	19.81	20.31	33	PASS
		20	LCH	RB1#0	20.5	21	33	PASS
				RB1#50	20.73	21.23	33	PASS
				RB1#99	20.3	20.8	33	PASS
				RB50#0	19.71	20.21	33	PASS
				RB50#25	19.82	20.32	33	PASS
				RB50#50	19.78	20.28	33	PASS
				RB100#0	19.72	20.22	33	PASS
			MCH	RB1#0	20.81	21.31	33	PASS

				RB1#50	21.06	21.56	33	PASS
				RB1#99	20.31	20.81	33	PASS
				RB50#0	20.04	20.54	33	PASS
				RB50#25	20.04	20.54	33	PASS
				RB50#50	19.77	20.27	33	PASS
				RB100#0	19.94	20.44	33	PASS
			HCH	RB1#0	20.43	20.93	33	PASS
				RB1#50	20.69	21.19	33	PASS
				RB1#99	20.12	20.62	33	PASS
				RB50#0	19.86	20.36	33	PASS
				RB50#25	20	20.5	33	PASS
				RB50#50	19.79	20.29	33	PASS
				RB100#0	19.89	20.39	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:

SET Span=1.5*OBW

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

SET VBW>= 3*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	4.15	13	PASS
				RB1#13	4.18	13	PASS
				RB1#24	4.46	13	PASS
				RB12#0	5.3	13	PASS
				RB12#6	5.2	13	PASS
				RB12#13	5.5	13	PASS
				RB25#0	5.64	13	PASS
			MCH	RB1#0	4.34	13	PASS
				RB1#13	4.25	13	PASS
				RB1#24	4.52	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.5	13	PASS
				RB12#13	5.68	13	PASS
				RB25#0	5.8	13	PASS
		10	HCH	RB1#0	4.51	13	PASS
				RB1#13	3.95	13	PASS
				RB1#24	4.15	13	PASS
				RB12#0	5.3	13	PASS
				RB12#6	5.14	13	PASS
				RB12#13	5.34	13	PASS
				RB25#0	5.56	13	PASS
			LCH	RB1#0	3.88	13	PASS
				RB1#25	3.74	13	PASS
				RB1#49	4.14	13	PASS
				RB25#0	5.47	13	PASS
				RB25#13	5.44	13	PASS
				RB25#25	5.74	13	PASS
				RB50#0	5.79	13	PASS
			MCH	RB1#0	3.93	13	PASS
				RB1#25	3.76	13	PASS
				RB1#49	4.16	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.6	13	PASS
				RB25#13	5.53	13	PASS
				RB25#25	5.72	13	PASS
				RB50#0	5.96	13	PASS
			HCH	RB1#0	4.06	13	PASS
				RB1#25	3.67	13	PASS
				RB1#49	3.86	13	PASS
				RB25#0	5.63	13	PASS
				RB25#13	5.41	13	PASS
				RB25#25	5.46	13	PASS
				RB50#0	5.84	13	PASS
		15	LCH	RB1#0	4.2	13	PASS
				RB1#38	4.22	13	PASS
				RB1#74	4.57	13	PASS
				RB36#0	5.51	13	PASS
				RB36#18	5.46	13	PASS
				RB36#39	5.62	13	PASS
				RB75#0	6.06	13	PASS
			MCH	RB1#0	4.54	13	PASS
				RB1#38	4.17	13	PASS
				RB1#74	4.69	13	PASS
				RB36#0	5.74	13	PASS
				RB36#18	5.65	13	PASS
				RB36#39	5.9	13	PASS
				RB75#0	6.18	13	PASS
			HCH	RB1#0	4.51	13	PASS
				RB1#38	3.94	13	PASS
				RB1#74	4.23	13	PASS
				RB36#0	5.74	13	PASS
				RB36#18	5.51	13	PASS
				RB36#39	5.56	13	PASS
				RB75#0	6.12	13	PASS
		20	LCH	RB1#0	4.38	13	PASS
				RB1#50	4.24	13	PASS
				RB1#99	4.61	13	PASS
				RB50#0	5.69	13	PASS
				RB50#25	5.56	13	PASS
				RB50#50	5.79	13	PASS
				RB100#0	6.02	13	PASS
			MCH	RB1#0	4.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.19	13	PASS
				RB1#99	4.83	13	PASS
				RB50#0	5.67	13	PASS
				RB50#25	5.61	13	PASS
				RB50#50	5.94	13	PASS
				RB100#0	6.24	13	PASS
			HCH	RB1#0	4.84	13	PASS
				RB1#50	4.08	13	PASS
				RB1#99	4.62	13	PASS
				RB50#0	5.89	13	PASS
				RB50#25	5.64	13	PASS
				RB50#50	5.7	13	PASS
				RB100#0	6.04	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.9	13	PASS
				RB1#13	5.07	13	PASS
				RB1#24	5.32	13	PASS
				RB12#0	5.83	13	PASS
				RB12#6	5.76	13	PASS
				RB12#13	5.95	13	PASS
				RB25#0	6.24	13	PASS
			MCH	RB1#0	5.04	13	PASS
				RB1#13	5.09	13	PASS
				RB1#24	5.34	13	PASS
				RB12#0	6.17	13	PASS
				RB12#6	6.1	13	PASS
				RB12#13	6.21	13	PASS
				RB25#0	6.43	13	PASS
		10	HCH	RB1#0	5.09	13	PASS
				RB1#13	4.84	13	PASS
				RB1#24	4.89	13	PASS
				RB12#0	5.8	13	PASS
				RB12#6	5.72	13	PASS
				RB12#13	5.87	13	PASS
				RB25#0	6.34	13	PASS
			LCH	RB1#0	4.84	13	PASS
				RB1#25	4.93	13	PASS
				RB1#49	5.41	13	PASS
				RB25#0	5.89	13	PASS
				RB25#13	5.99	13	PASS
				RB25#25	6.1	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.52	13	PASS
				RB1#0	5.05	13	PASS
			MCH	RB1#25	5.05	13	PASS
				RB1#49	5.46	13	PASS
				RB25#0	6.15	13	PASS
				RB25#13	6.16	13	PASS
				RB25#25	6.29	13	PASS
				RB50#0	6.77	13	PASS
			HCH	RB1#0	4.9	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	6.13	13	PASS
				RB25#13	5.9	13	PASS
				RB25#25	5.91	13	PASS
				RB50#0	6.63	13	PASS
		15	LCH	RB1#0	5.07	13	PASS
				RB1#38	5	13	PASS
				RB1#74	5.33	13	PASS
				RB36#0	6.02	13	PASS
				RB36#18	6.03	13	PASS
				RB36#39	6.34	13	PASS
				RB75#0	6.67	13	PASS
			MCH	RB1#0	5.54	13	PASS
				RB1#38	5.39	13	PASS
				RB1#74	5.86	13	PASS
				RB36#0	6.33	13	PASS
				RB36#18	6.17	13	PASS
				RB36#39	6.47	13	PASS
				RB75#0	7.01	13	PASS
			HCH	RB1#0	5.48	13	PASS
				RB1#38	4.95	13	PASS
				RB1#74	5.16	13	PASS
				RB36#0	6.39	13	PASS
				RB36#18	6.11	13	PASS
				RB36#39	6.21	13	PASS
				RB75#0	6.71	13	PASS
		20	LCH	RB1#0	5.02	13	PASS
				RB1#50	4.81	13	PASS
				RB1#99	5.3	13	PASS
				RB50#0	6.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#25	6.09	13	PASS
				RB50#50	6.2	13	PASS
				RB100#0	6.73	13	PASS
			MCH	RB1#0	5.3	13	PASS
				RB1#50	4.99	13	PASS
				RB1#99	5.63	13	PASS
				RB50#0	6.19	13	PASS
				RB50#25	6.09	13	PASS
				RB50#50	6.38	13	PASS
				RB100#0	6.68	13	PASS
			HCH	RB1#0	5.57	13	PASS
				RB1#50	5.08	13	PASS
				RB1#99	5.25	13	PASS
				RB50#0	6.48	13	PASS
				RB50#25	6.21	13	PASS
				RB50#50	6.23	13	PASS
				RB100#0	6.82	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

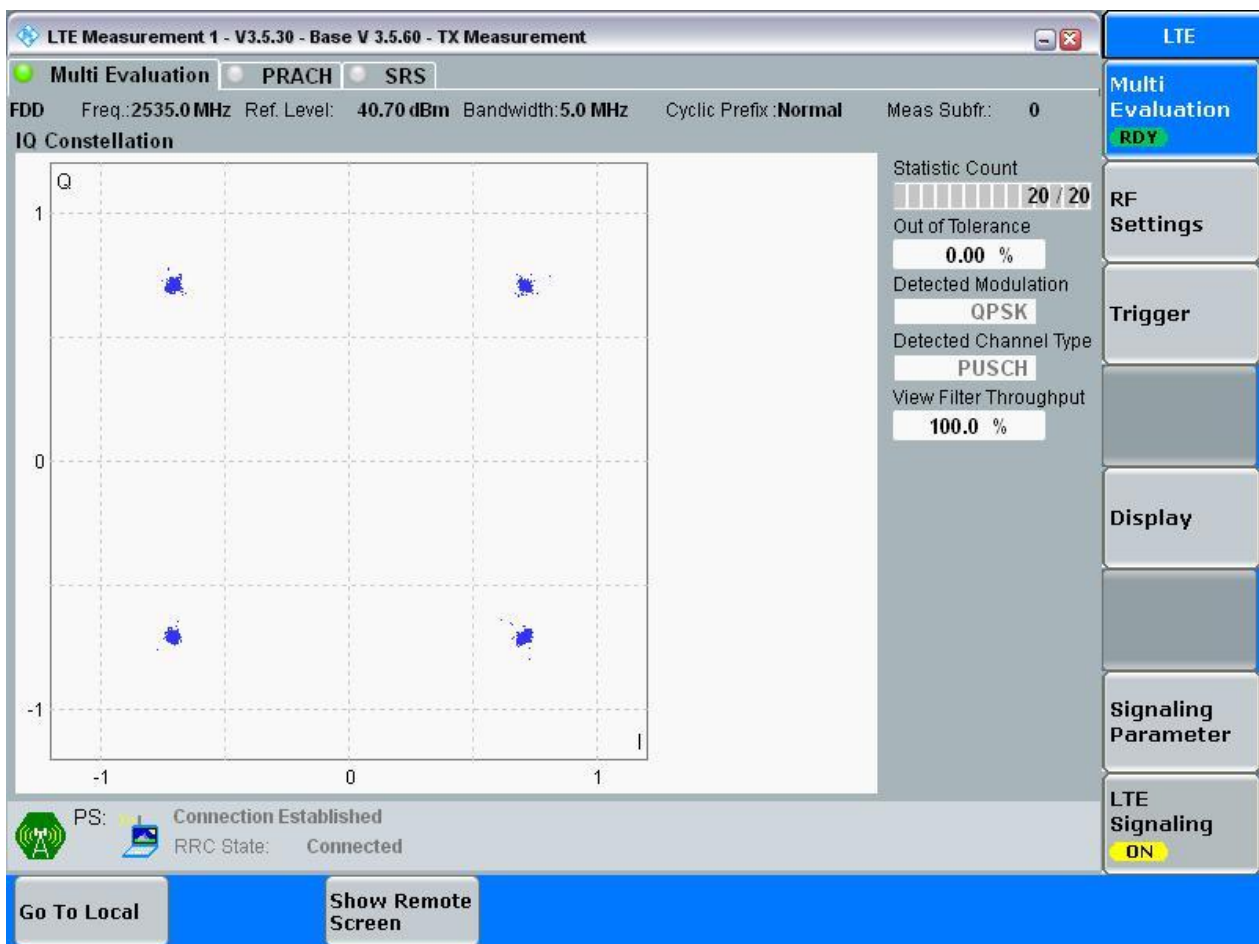
3.1.1 Test Band = BAND7

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

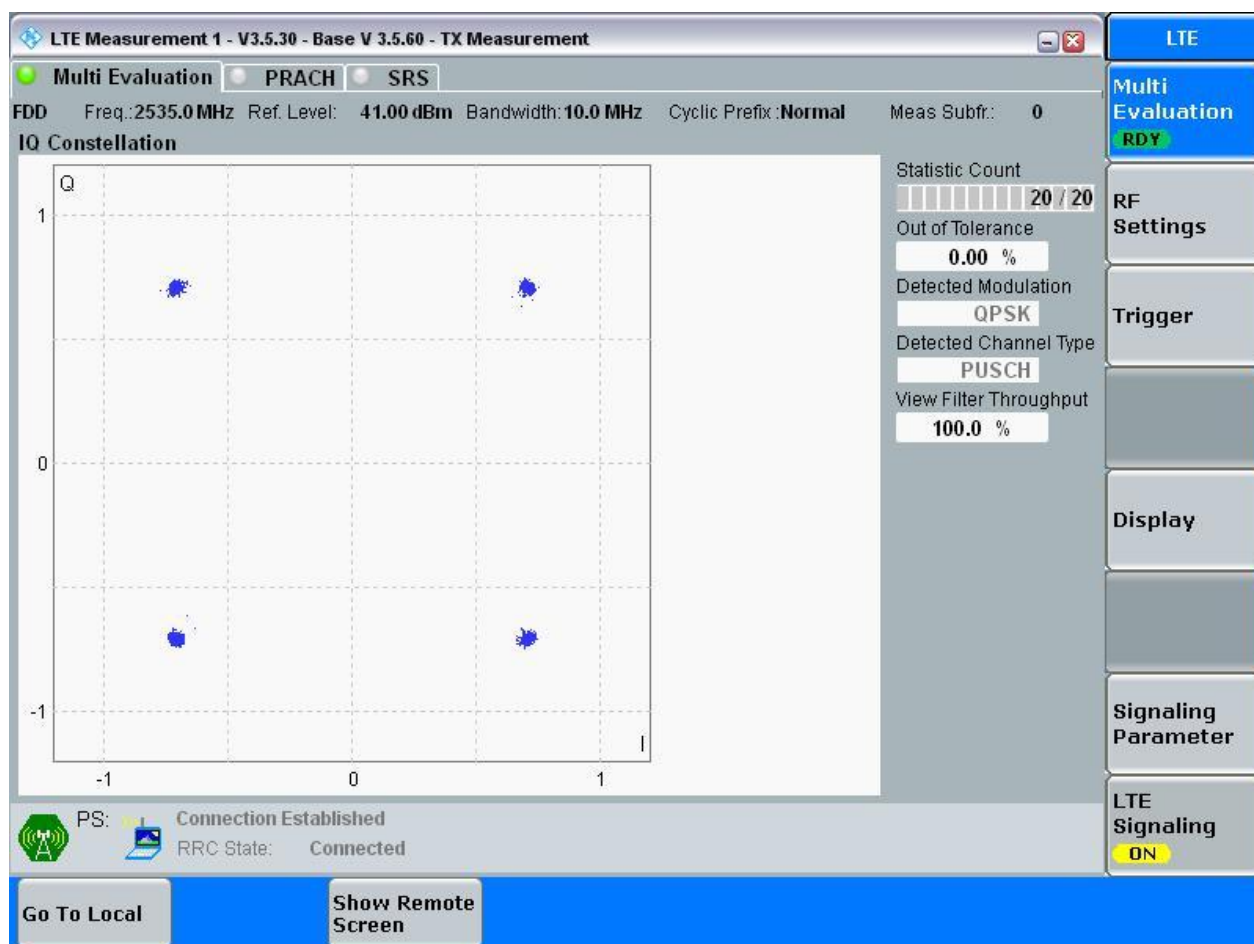
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

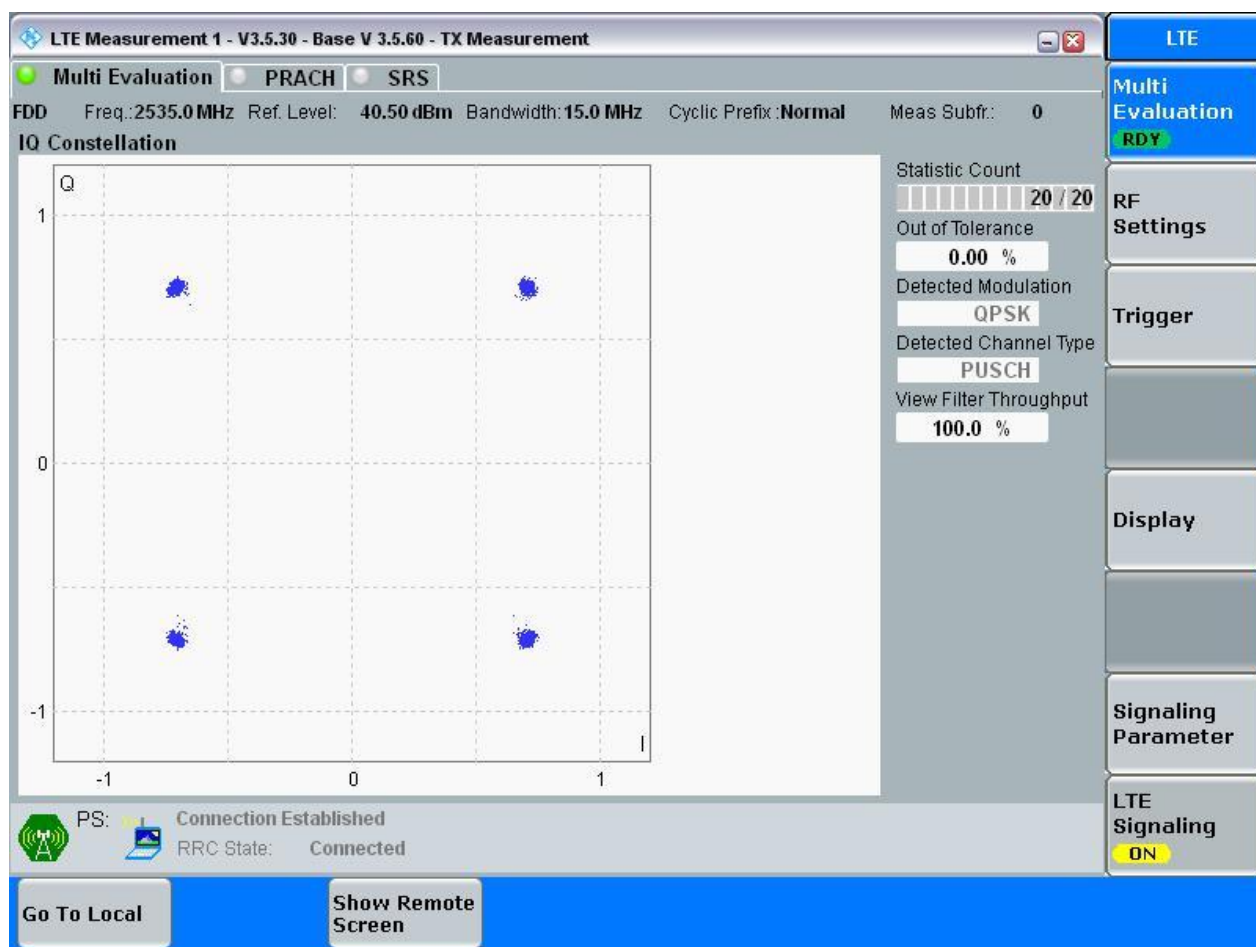
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

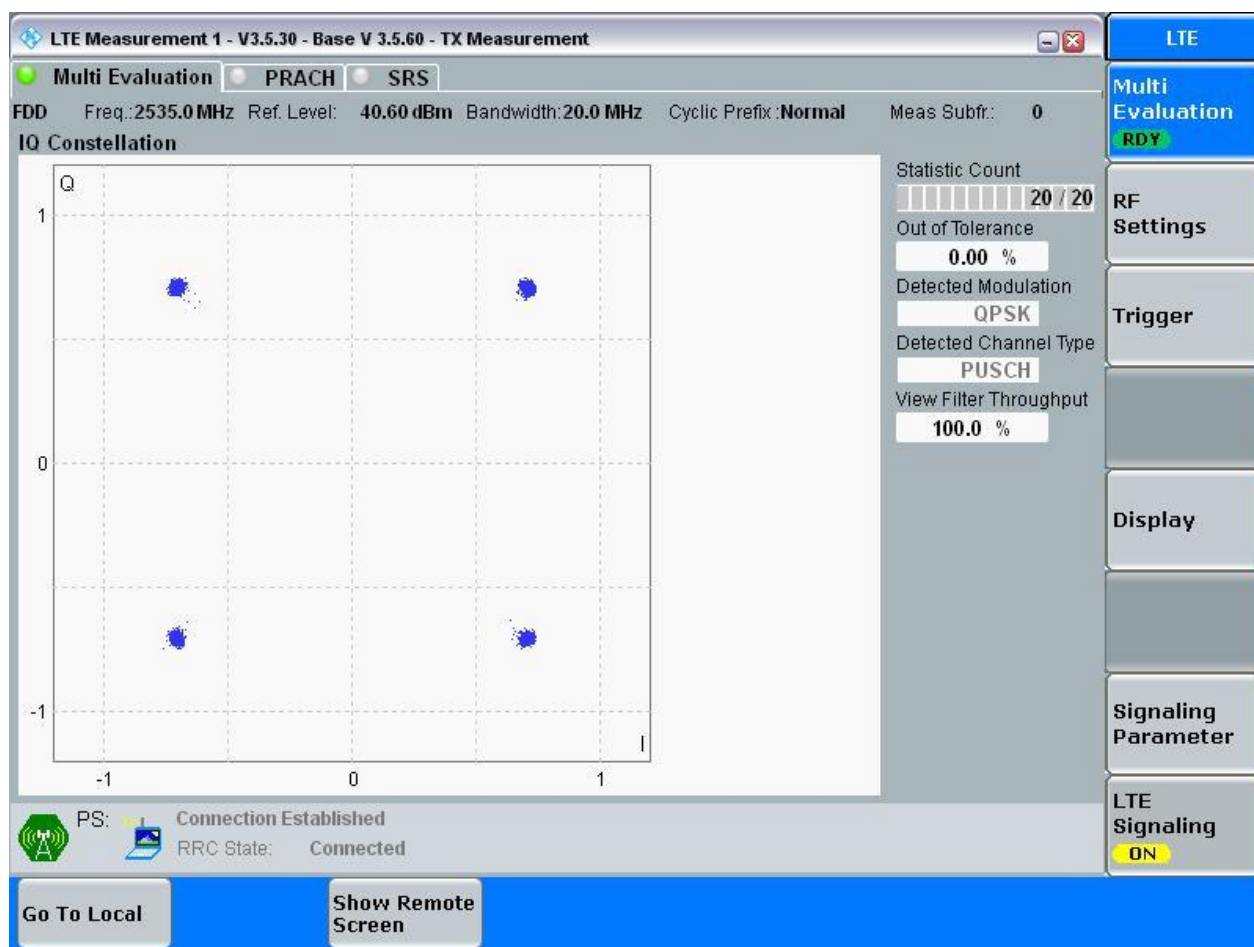
3.1.1.1.3.1.1 Test RB = RB75#0



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

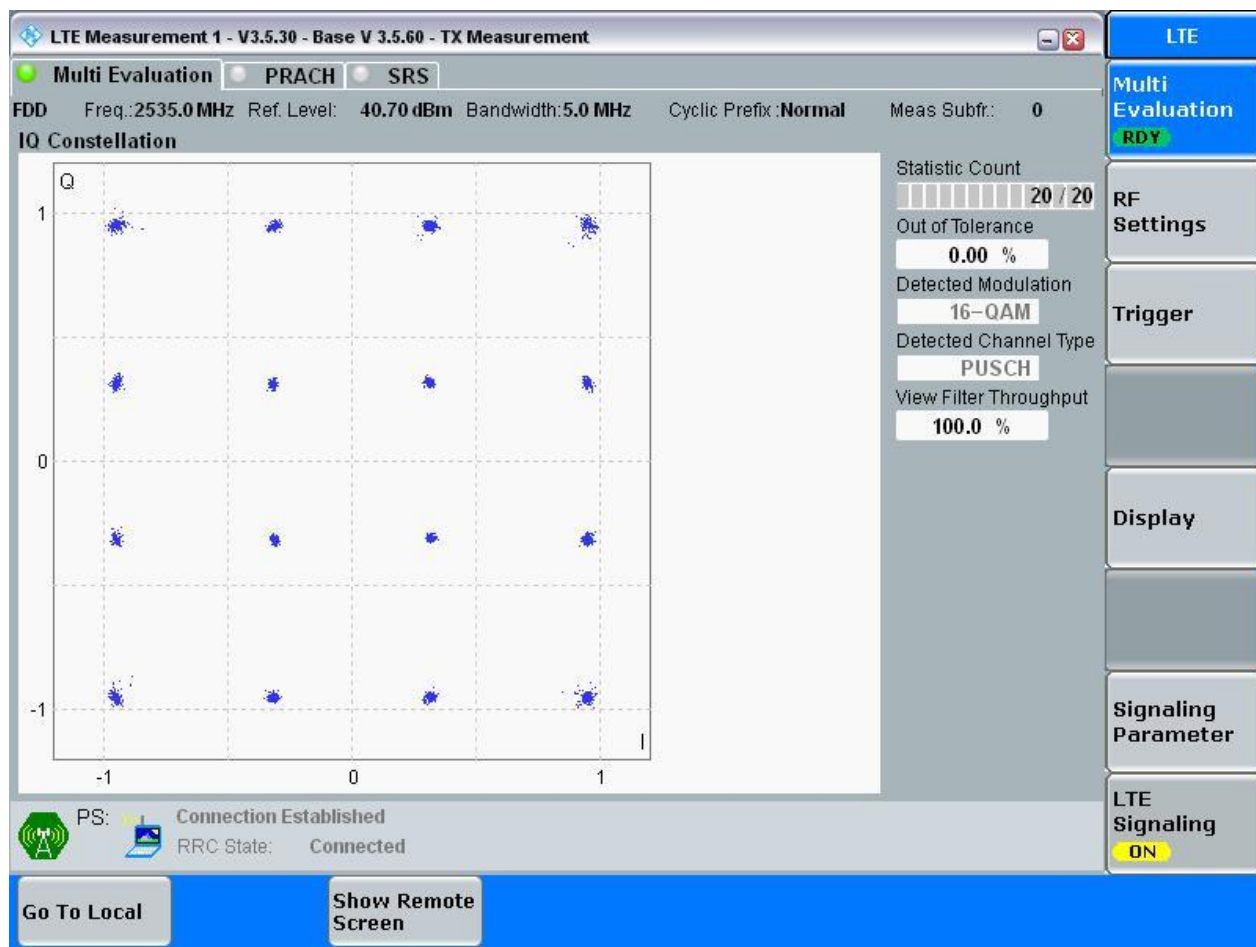


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

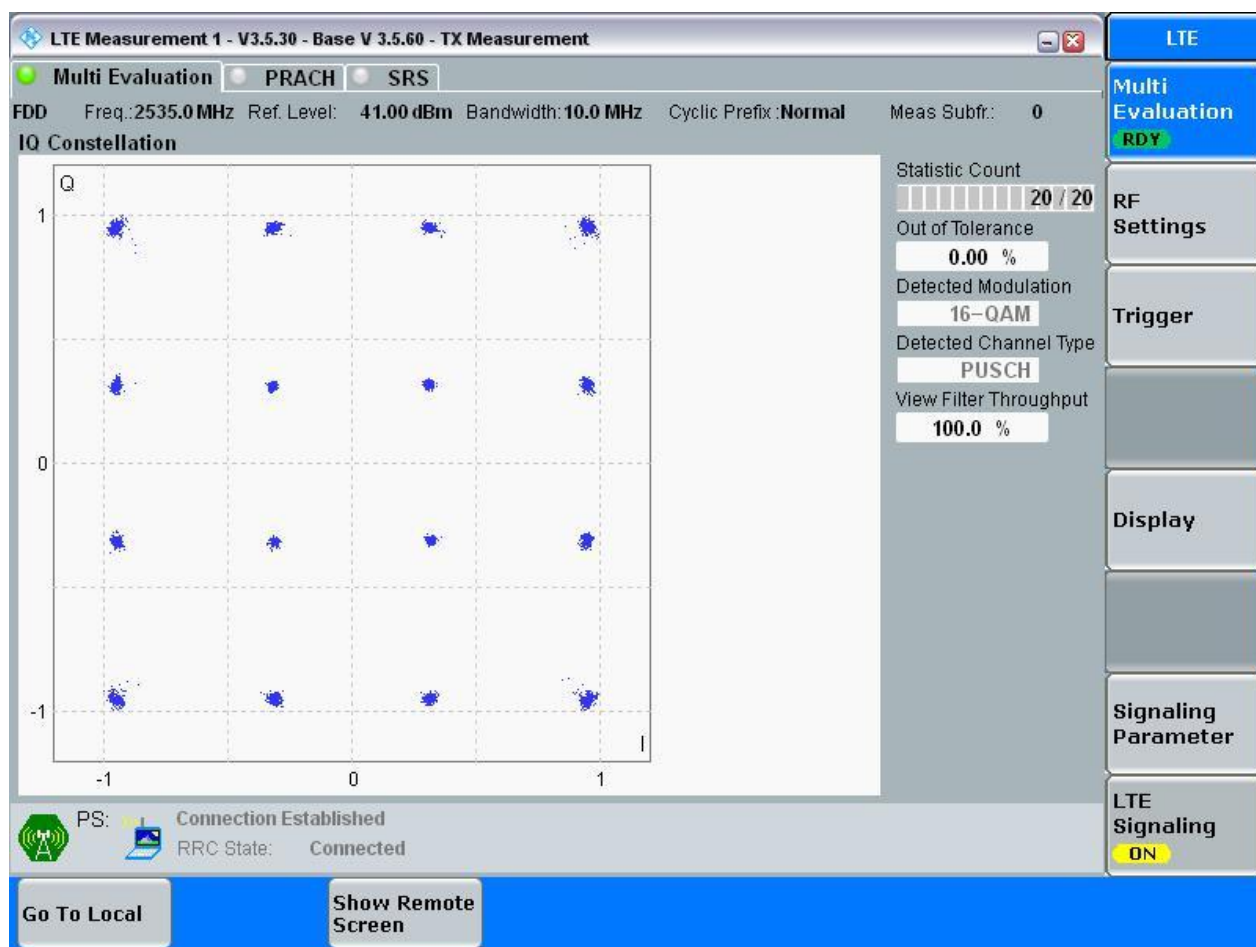
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

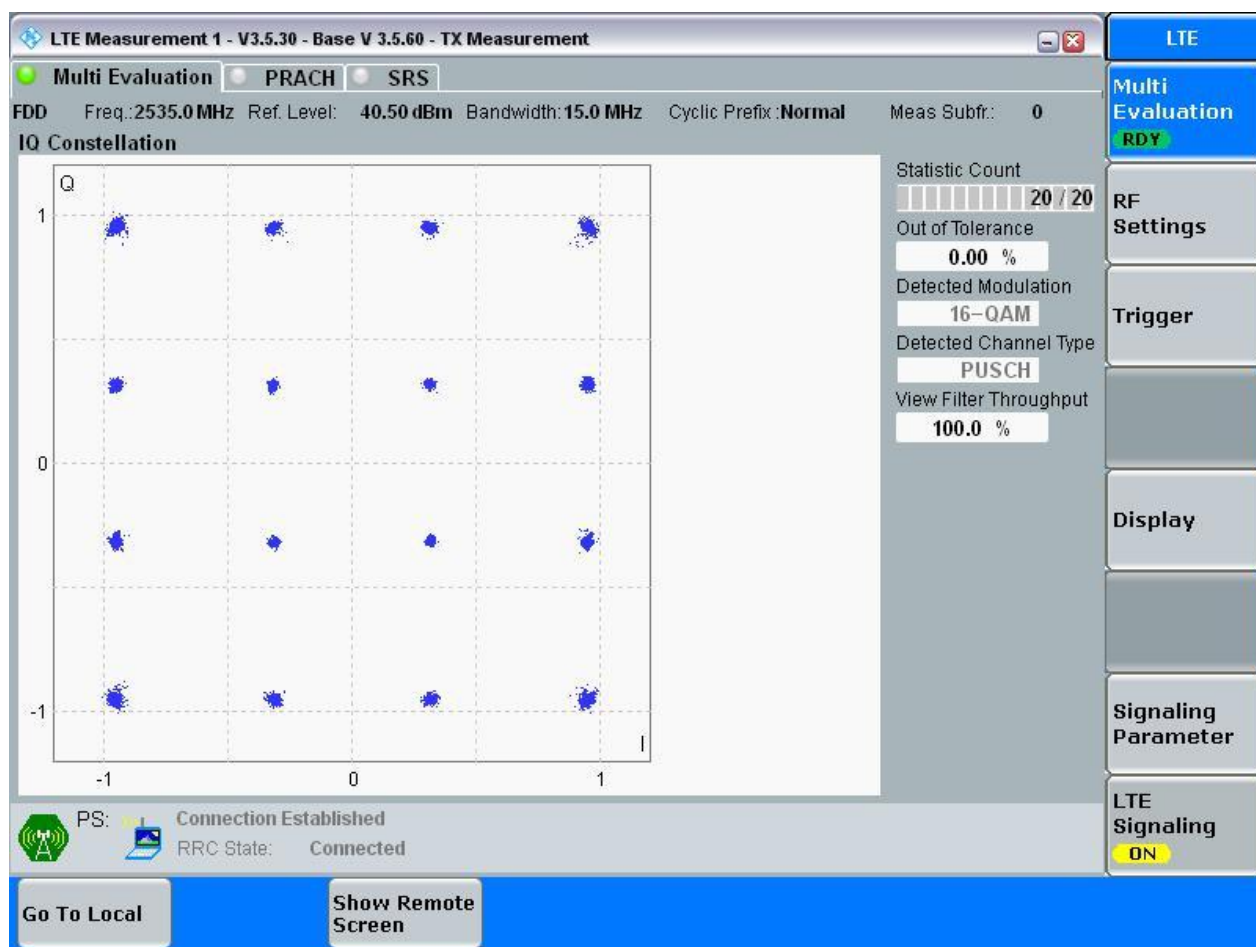
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

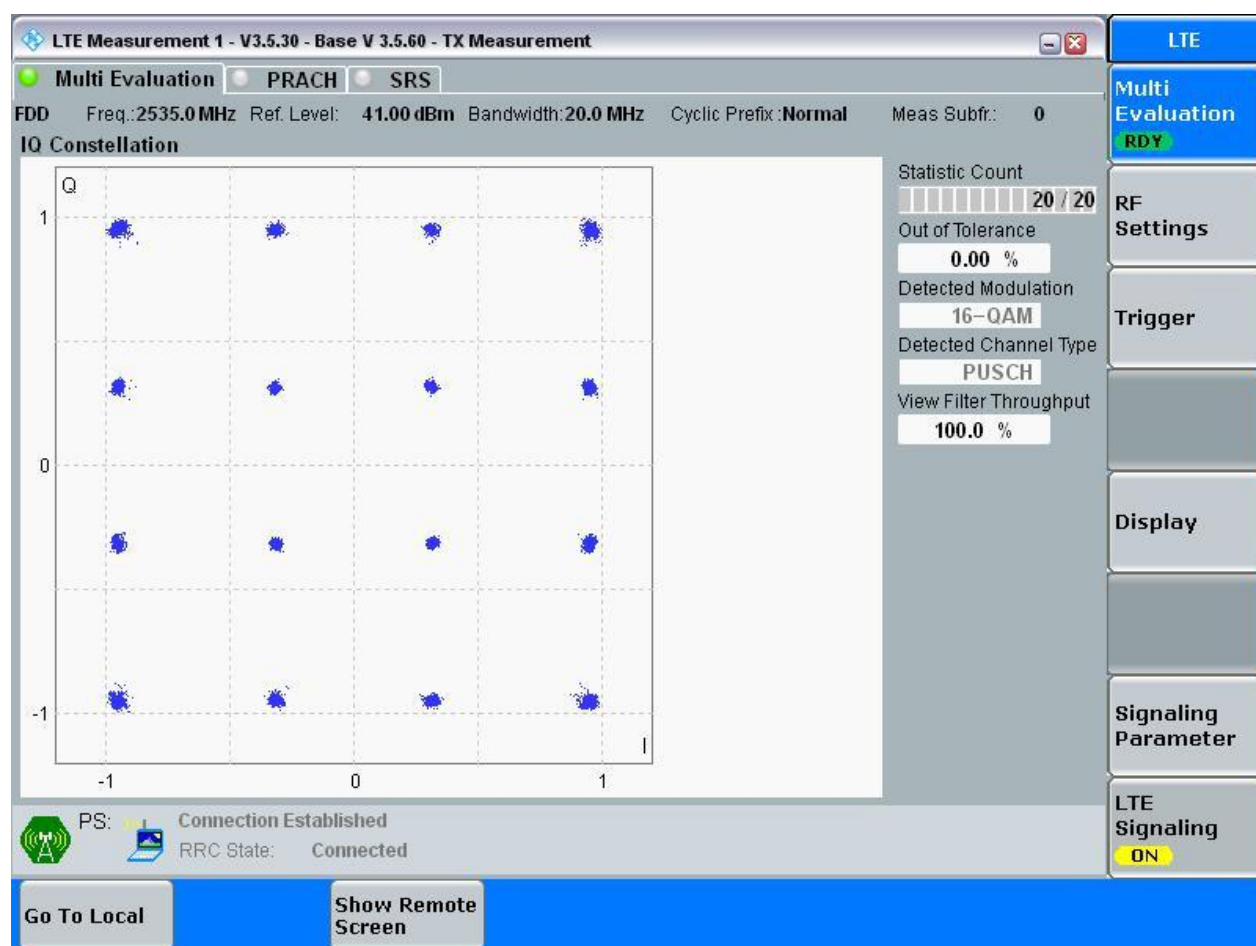
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.99	Pass
			MCH	RB25#0	4.53	4.98	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	9.00	9.92	Pass
			MCH	RB50#0	8.99	9.90	Pass
			HCH	RB50#0	8.98	9.87	Pass
		15	LCH	RB75#0	13.51	15.06	Pass
			MCH	RB75#0	13.49	15.08	Pass
			HCH	RB75#0	13.50	15.00	Pass
		20	LCH	RB100#0	18.00	19.83	Pass
			MCH	RB100#0	17.98	19.82	Pass
			HCH	RB100#0	18.00	19.91	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.52	4.96	Pass
		10	LCH	RB50#0	9.01	9.93	Pass
			MCH	RB50#0	9.01	9.89	Pass
			HCH	RB50#0	8.99	9.90	Pass
		15	LCH	RB75#0	13.49	15.08	Pass
			MCH	RB75#0	13.51	15.01	Pass
			HCH	RB75#0	13.49	14.96	Pass
		20	LCH	RB100#0	18.02	19.90	Pass
			MCH	RB100#0	18.01	19.87	Pass
			HCH	RB100#0	17.97	19.88	Pass



Part II - Test Plots

4.1 For LTE

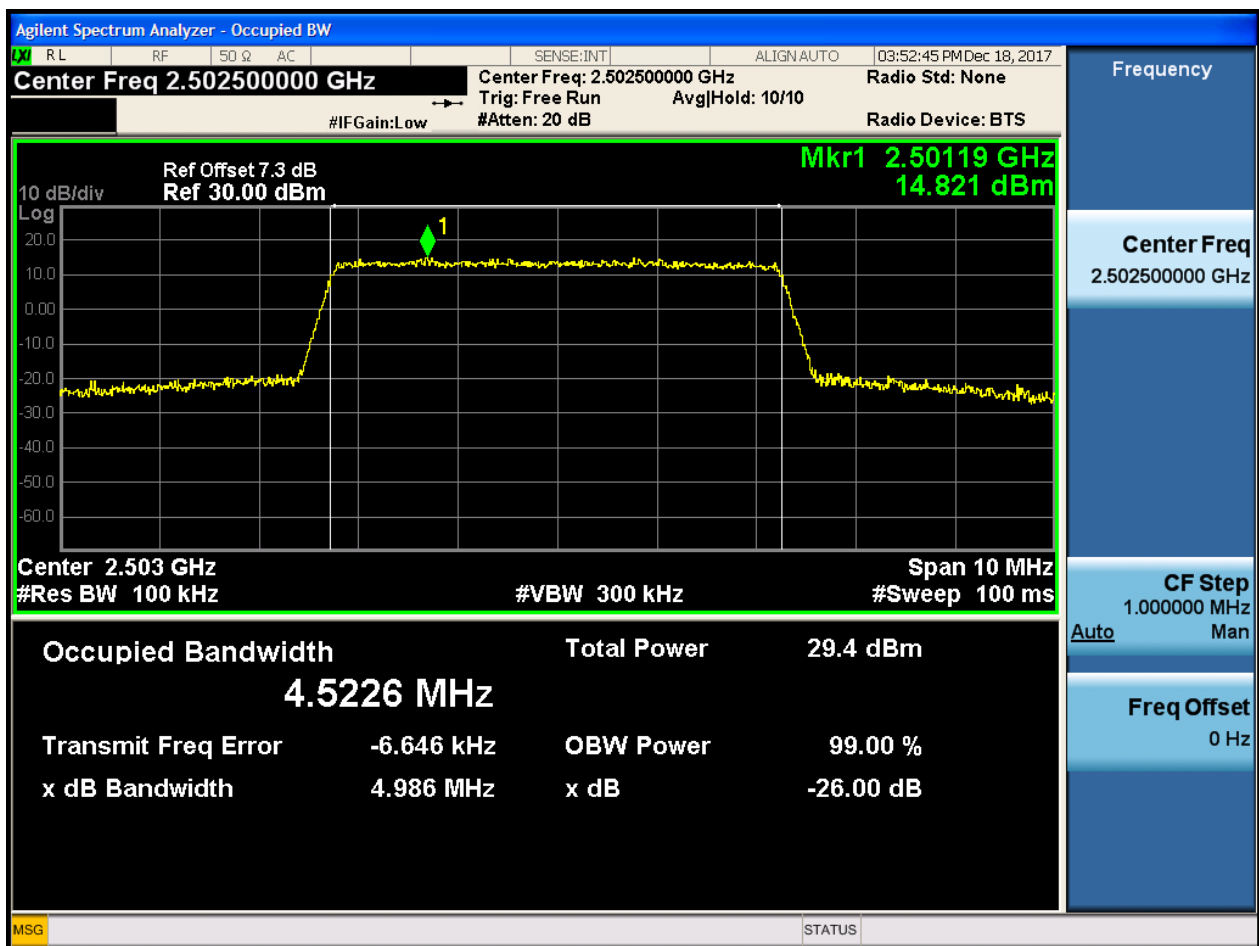
4.1.1 Test Band = BAND7

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

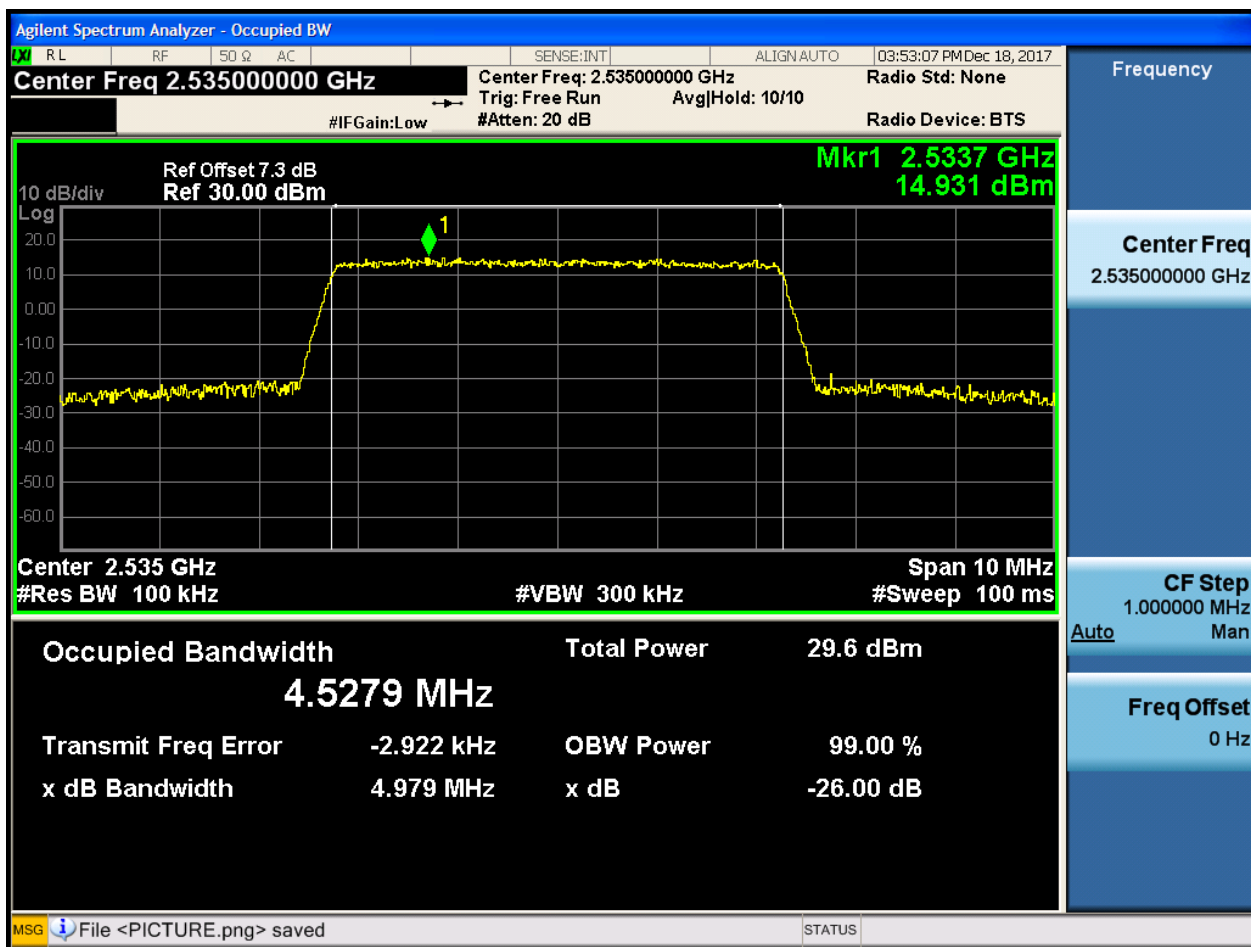
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

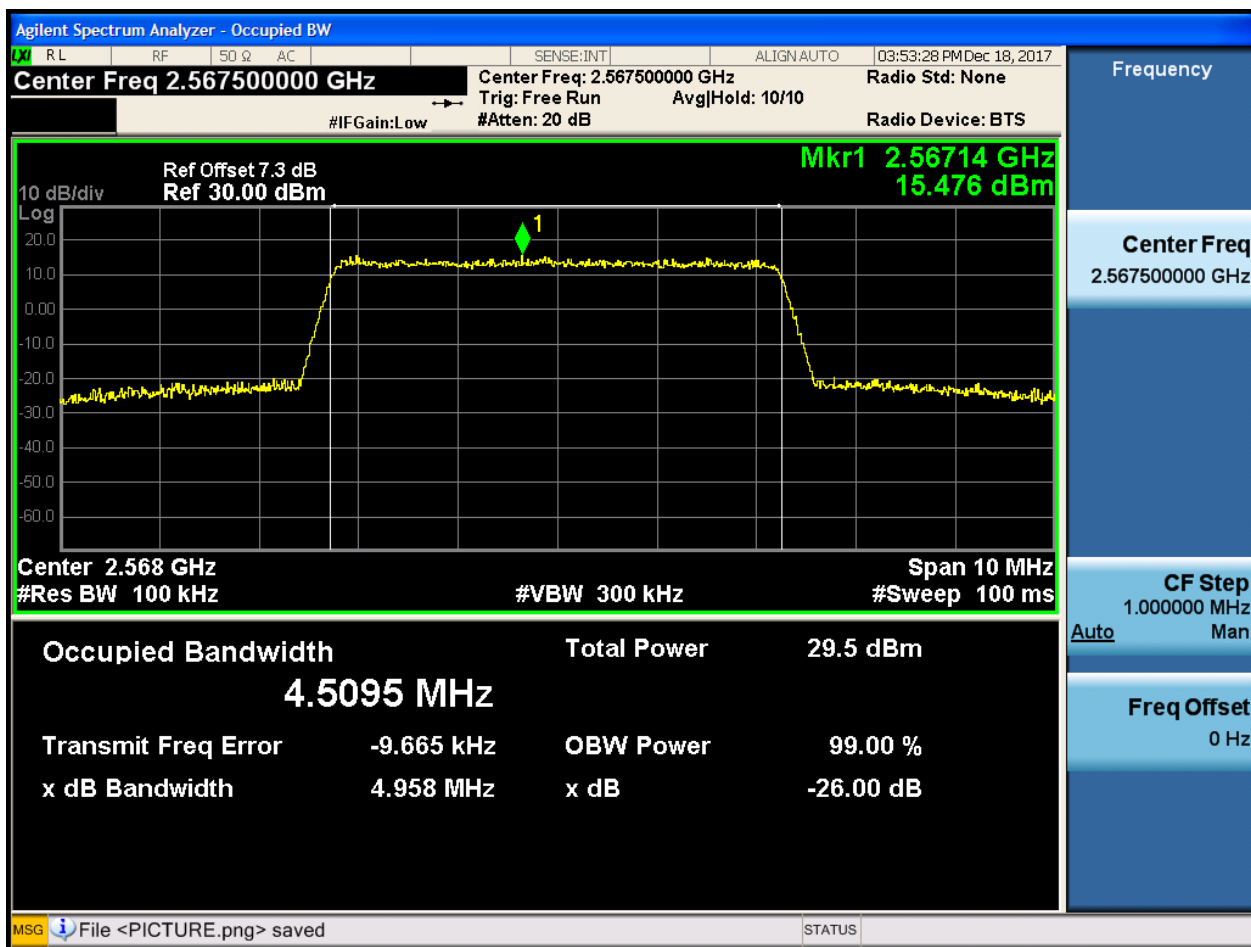
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

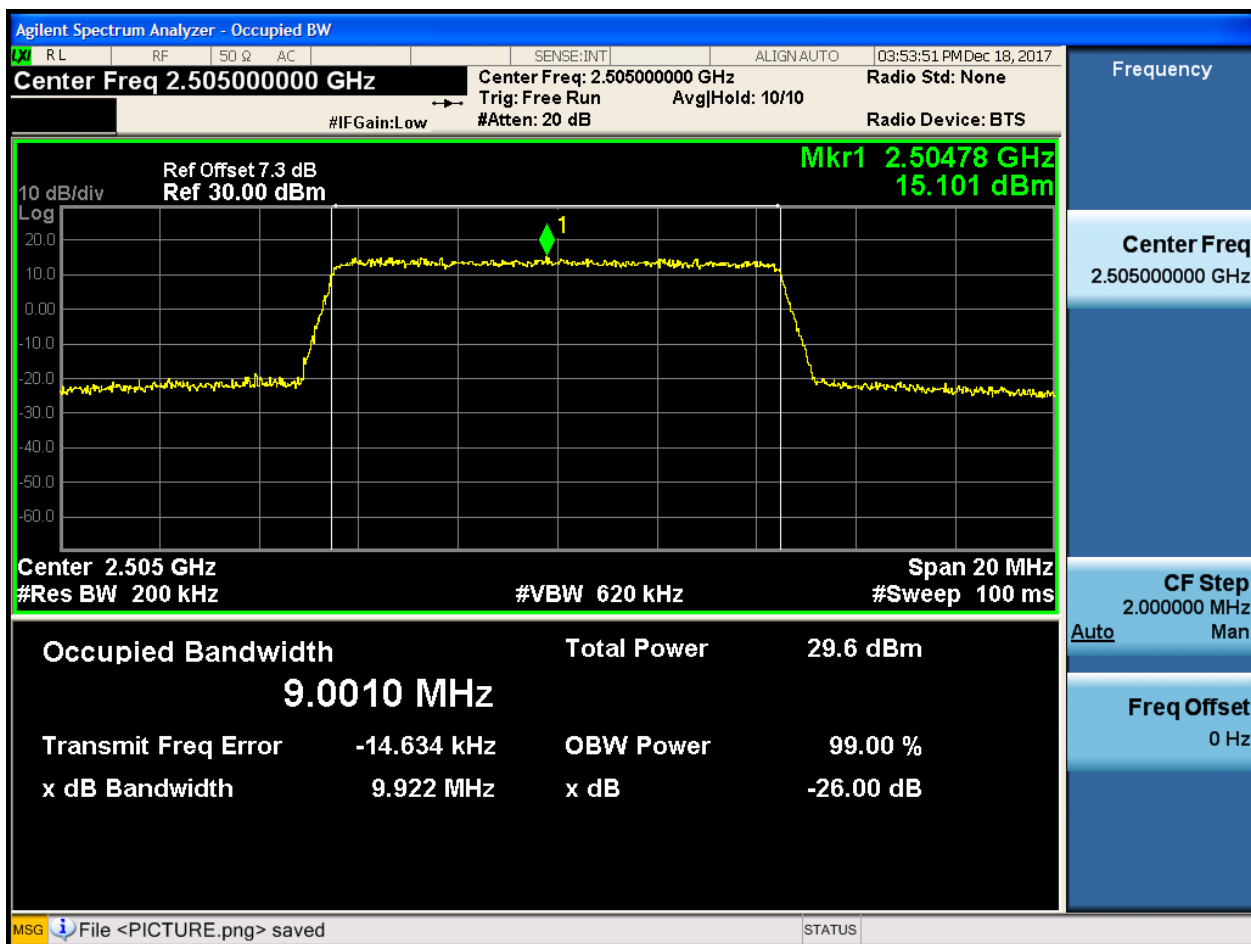




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

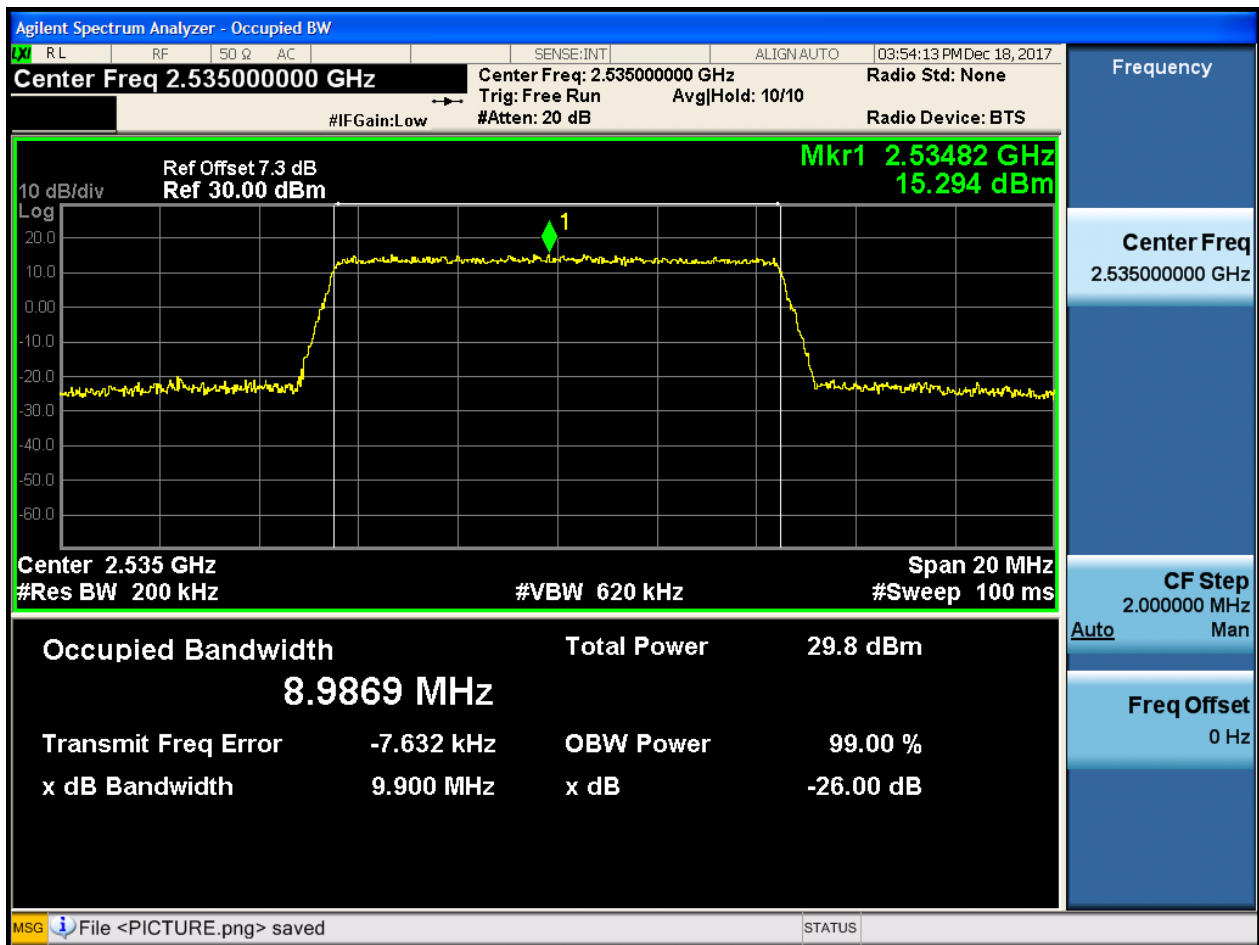
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

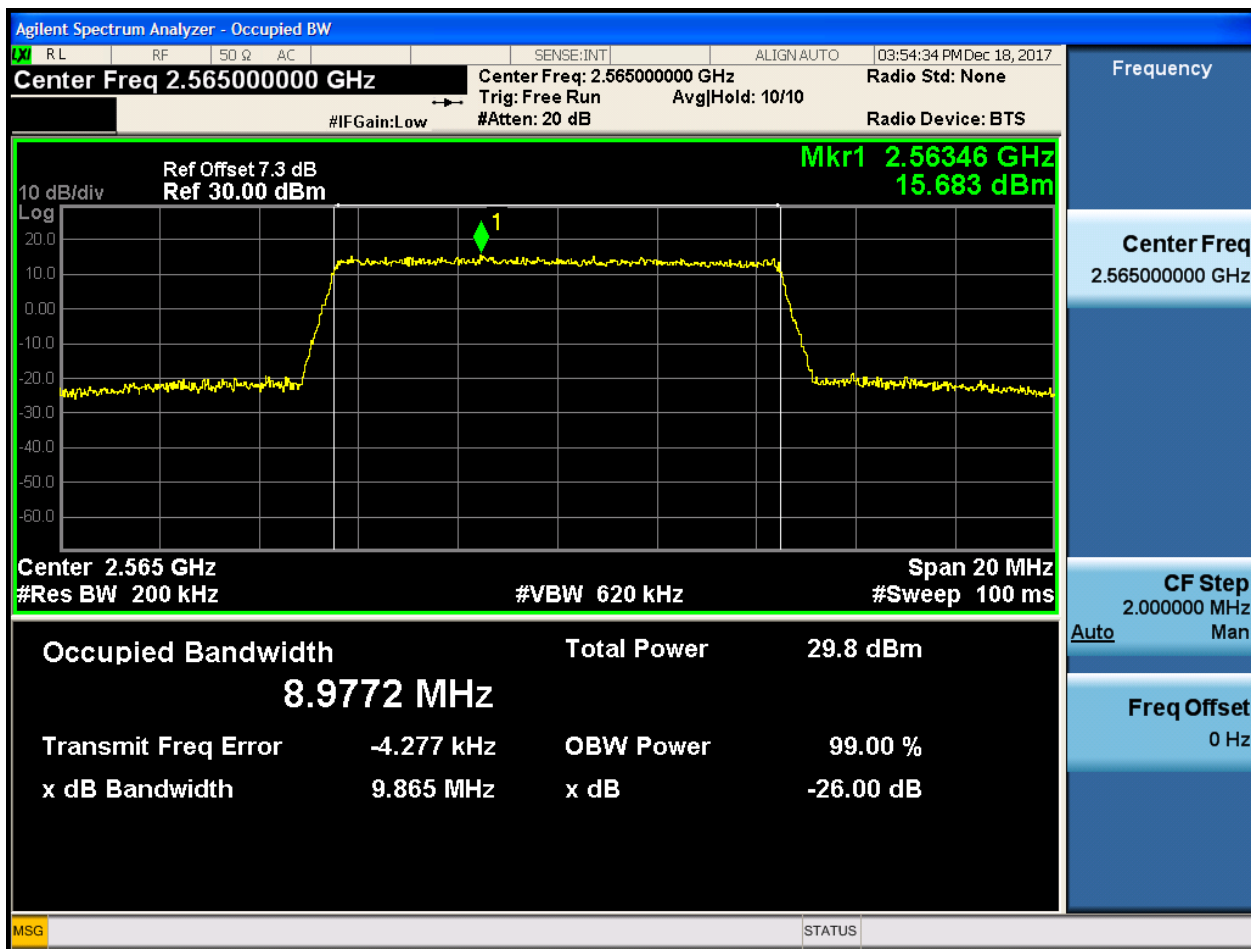
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

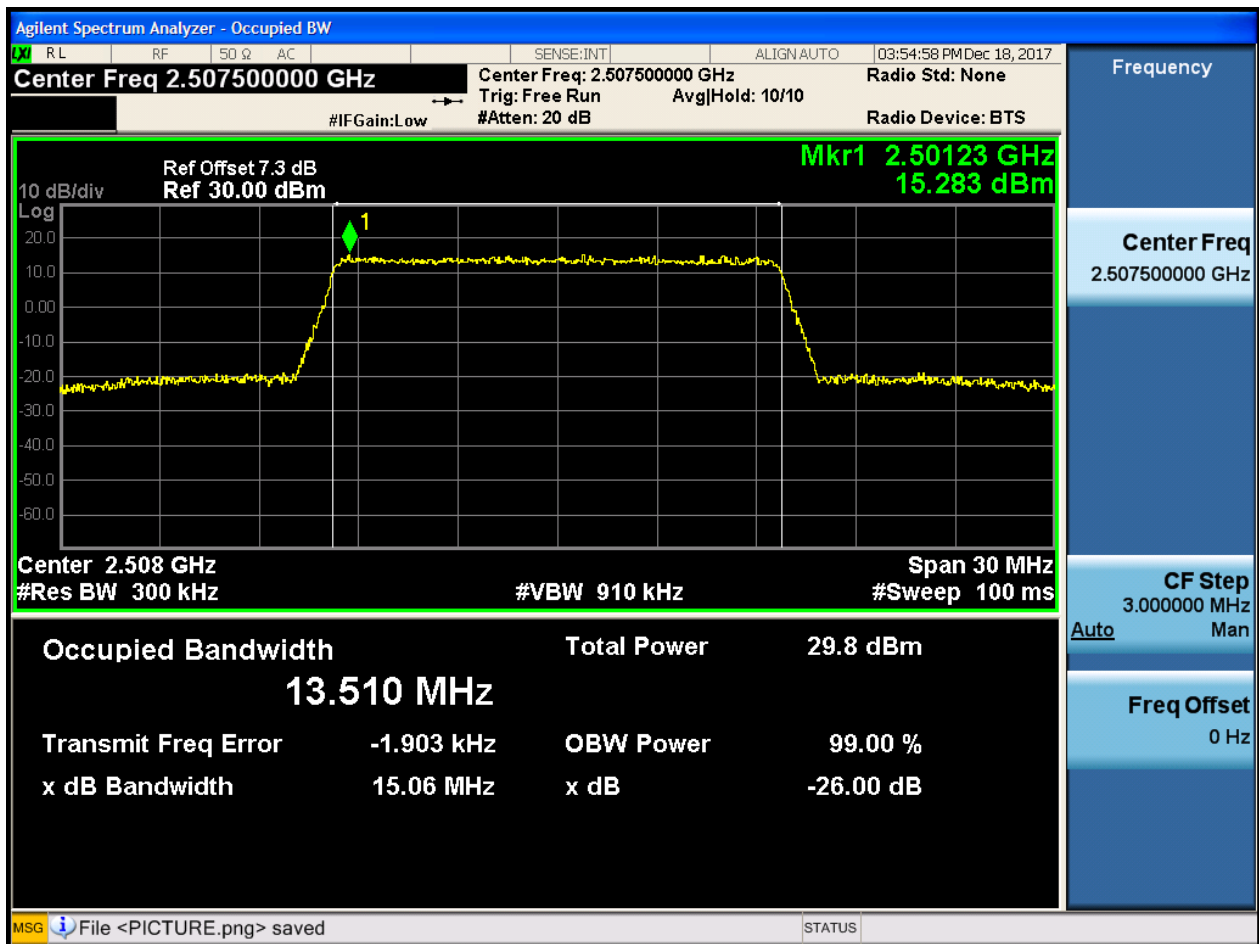




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

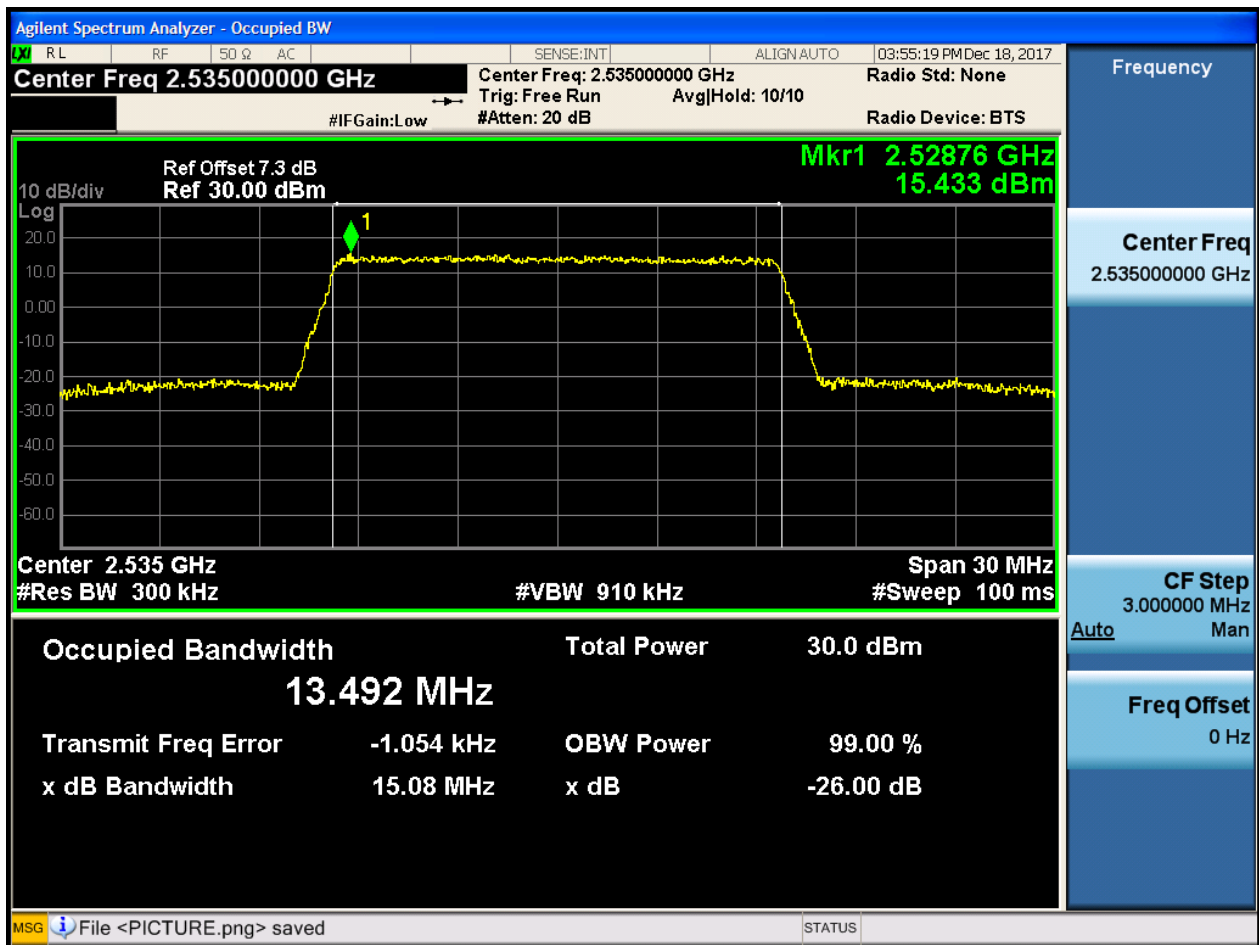
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

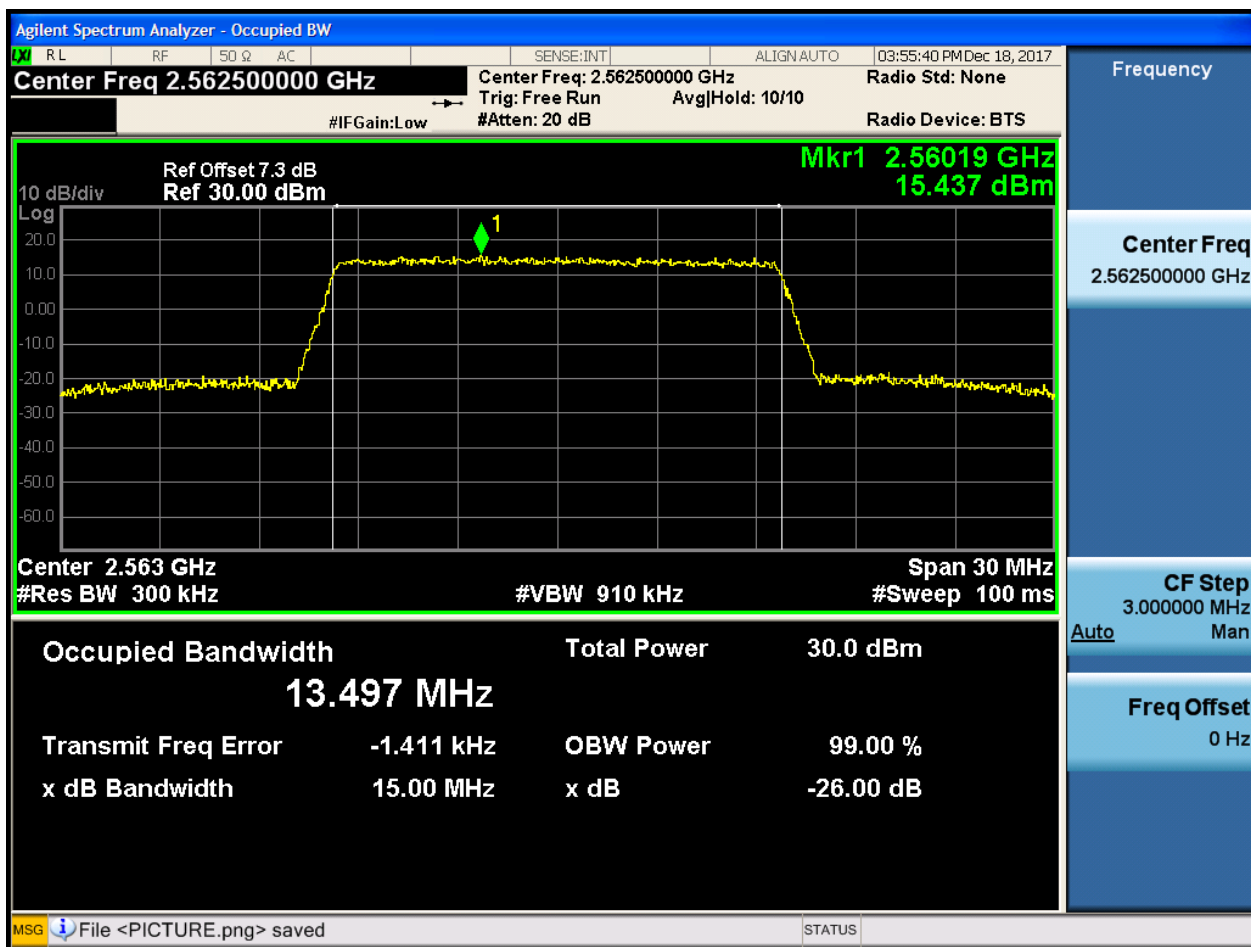
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

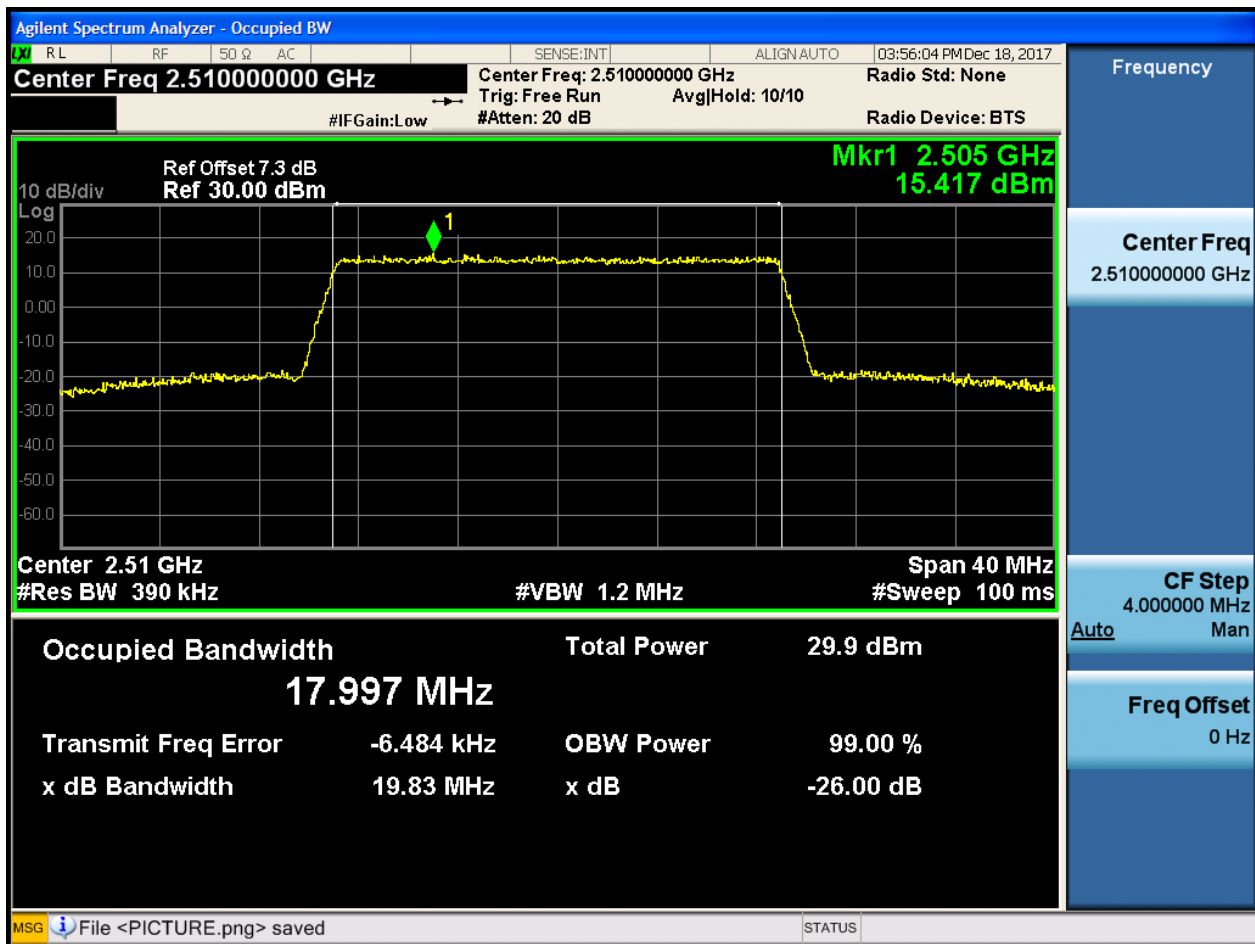




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

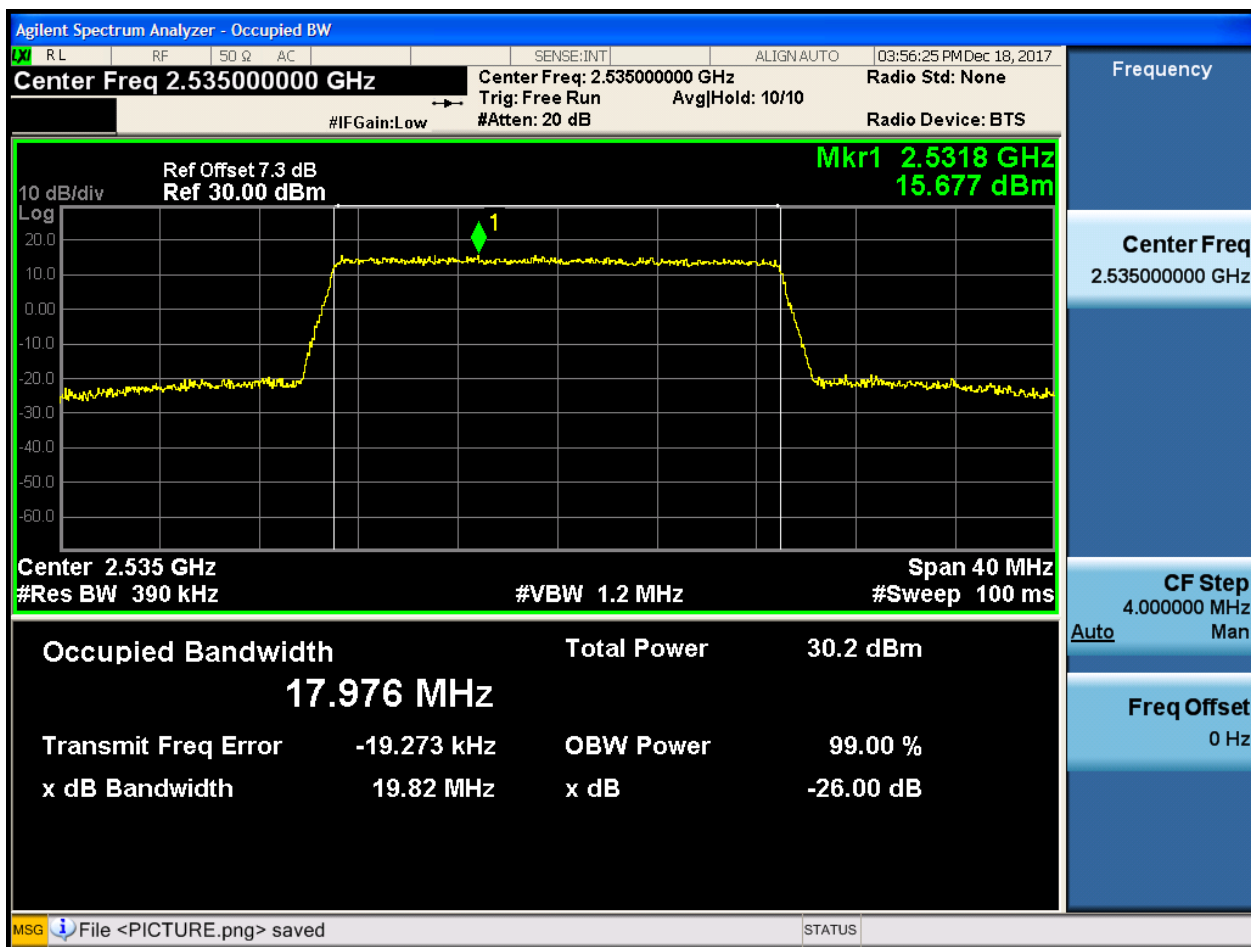
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

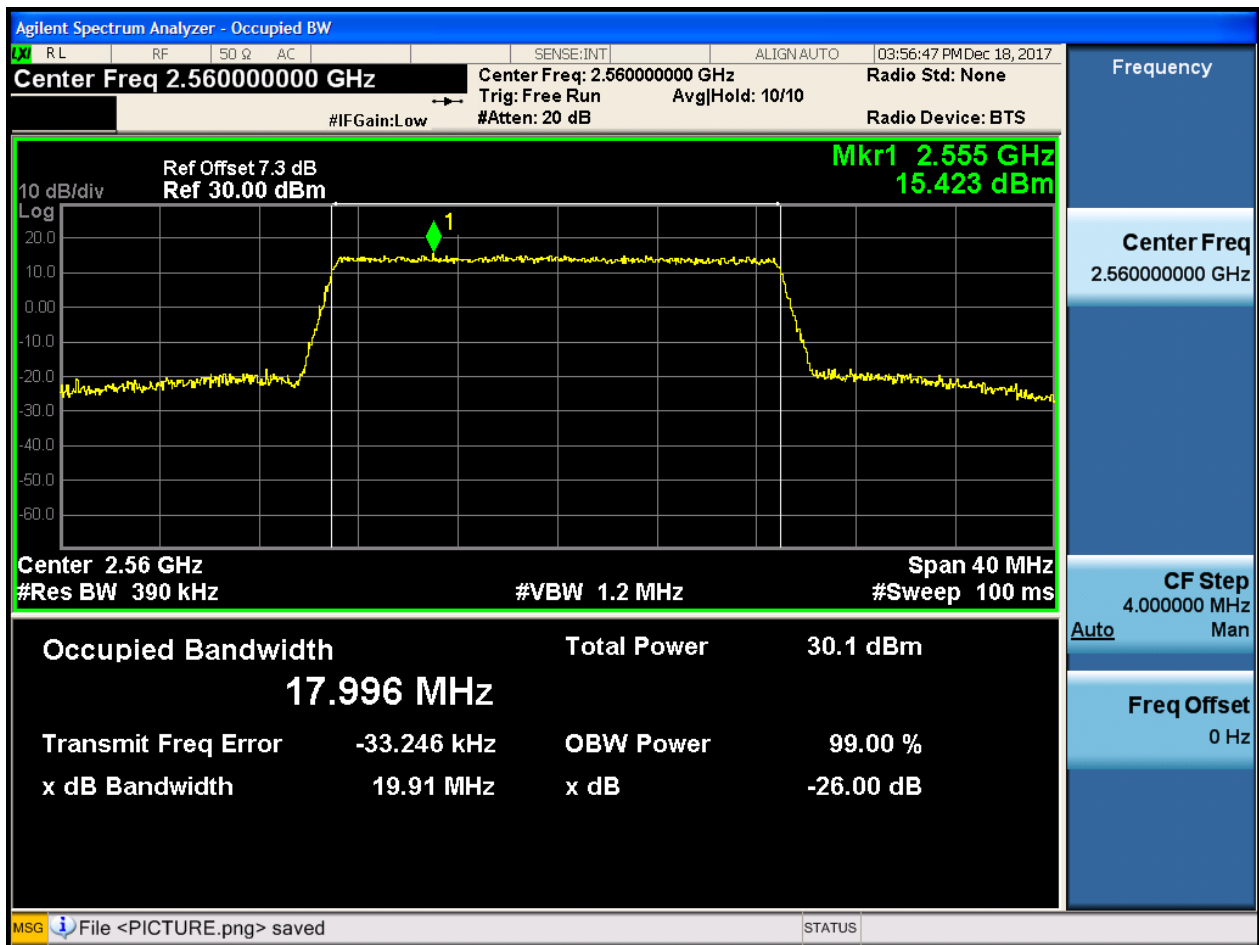
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



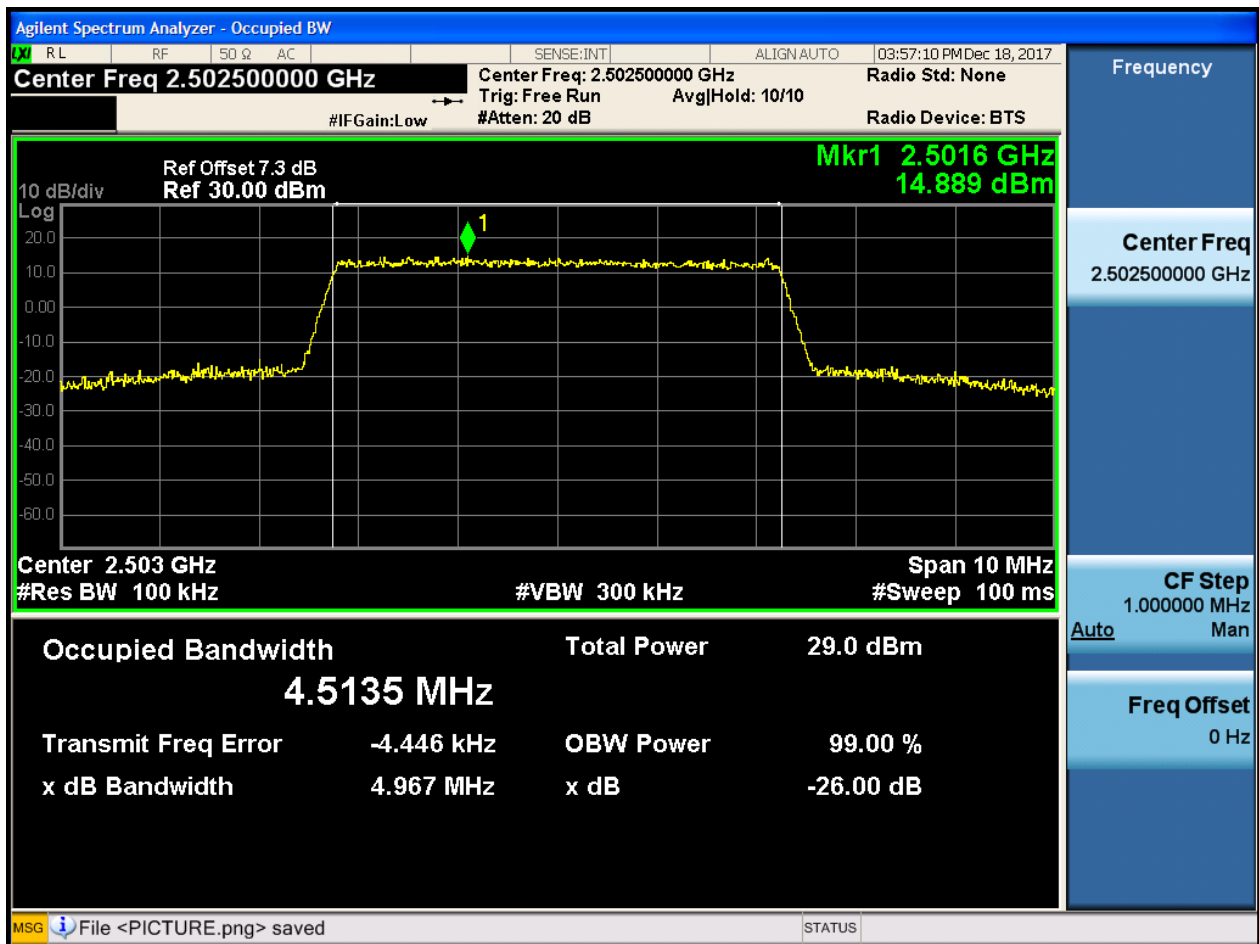


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

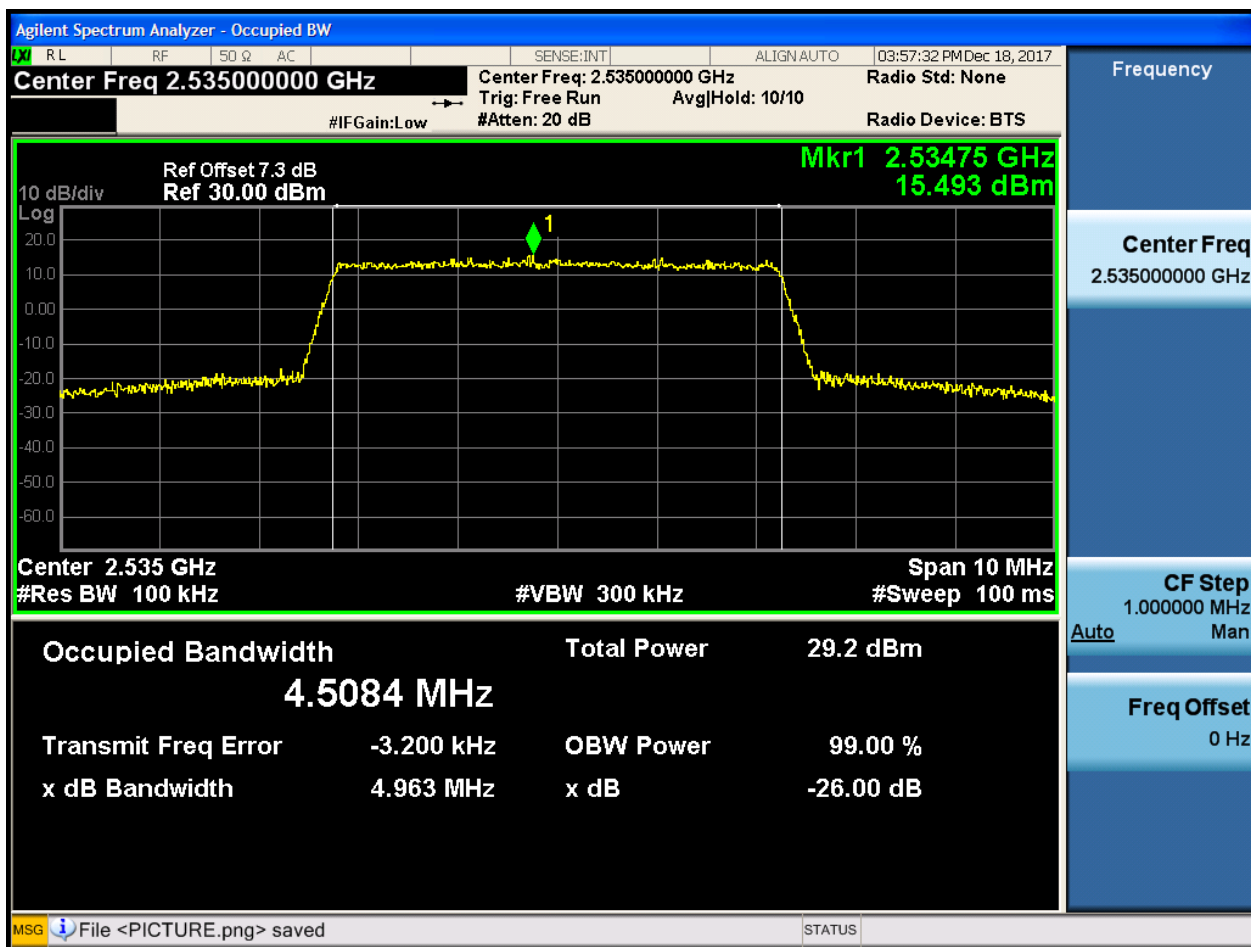
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

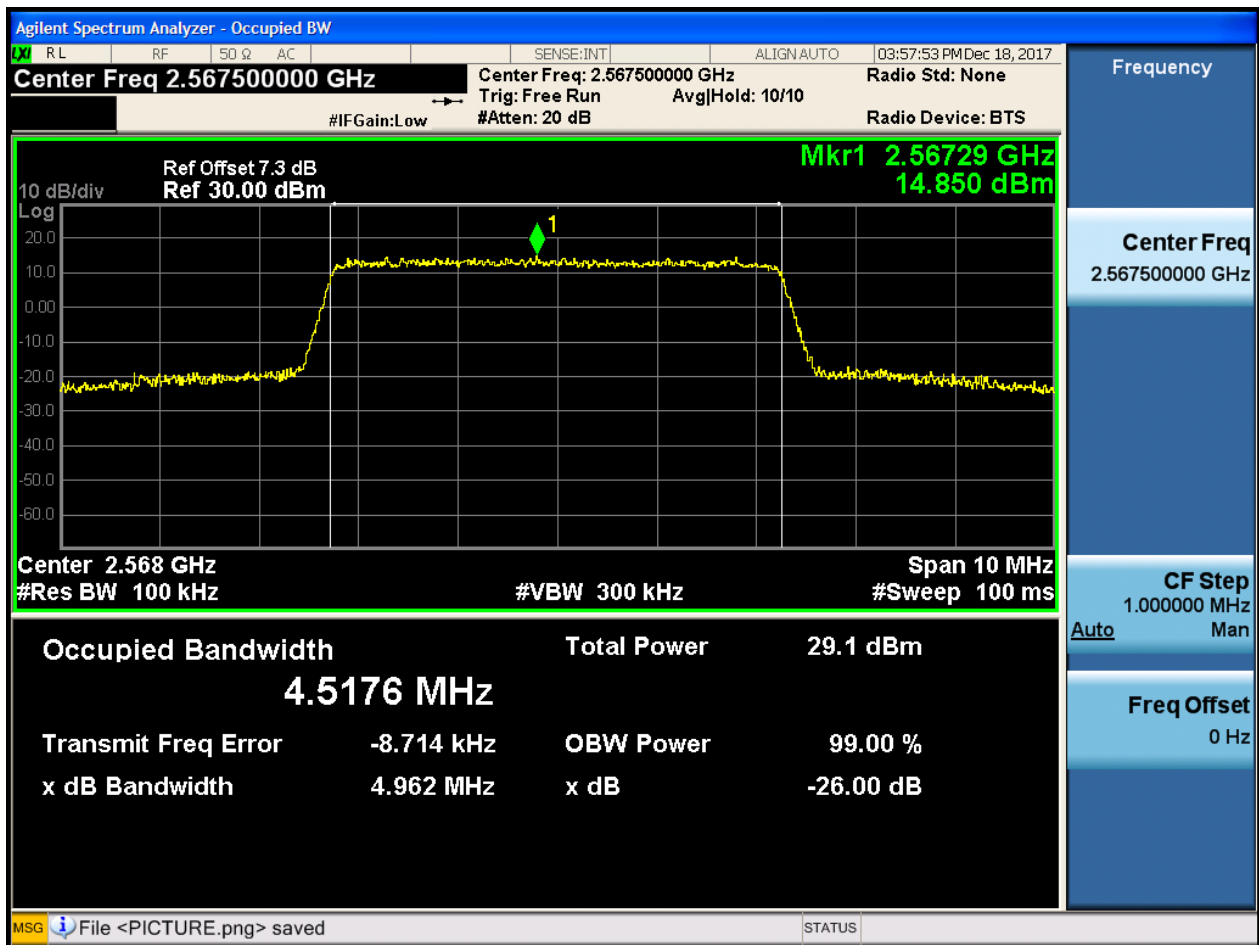
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

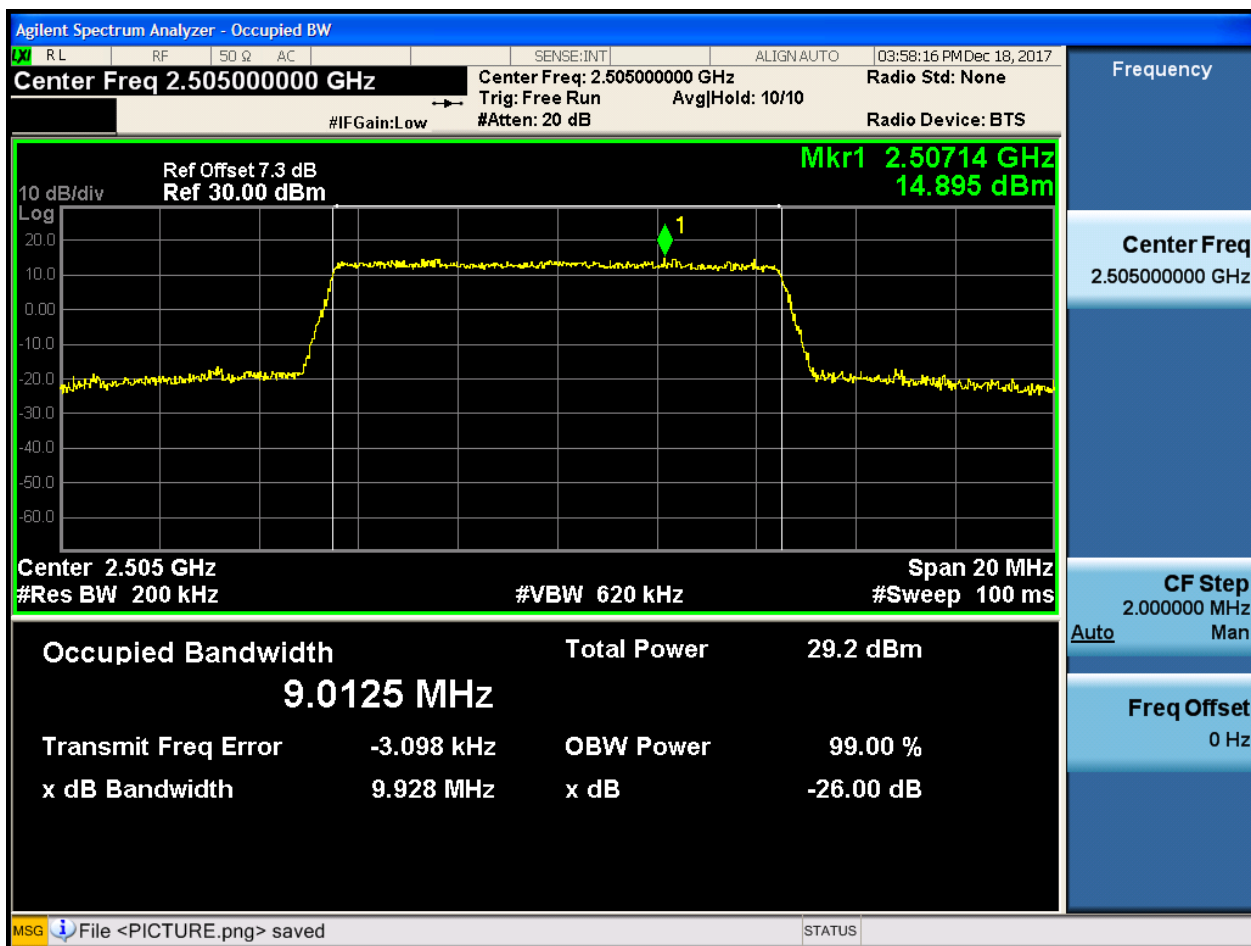




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

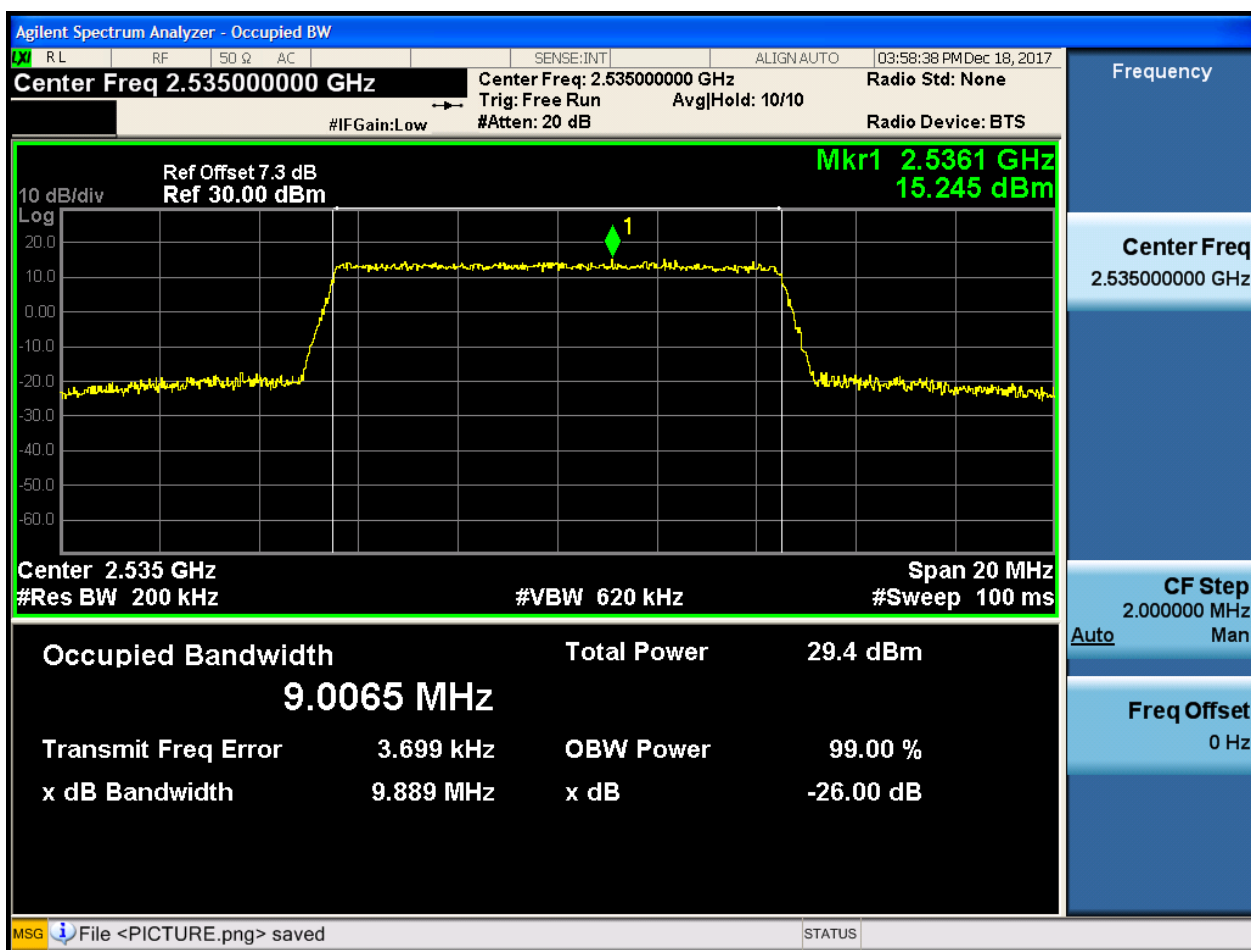
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

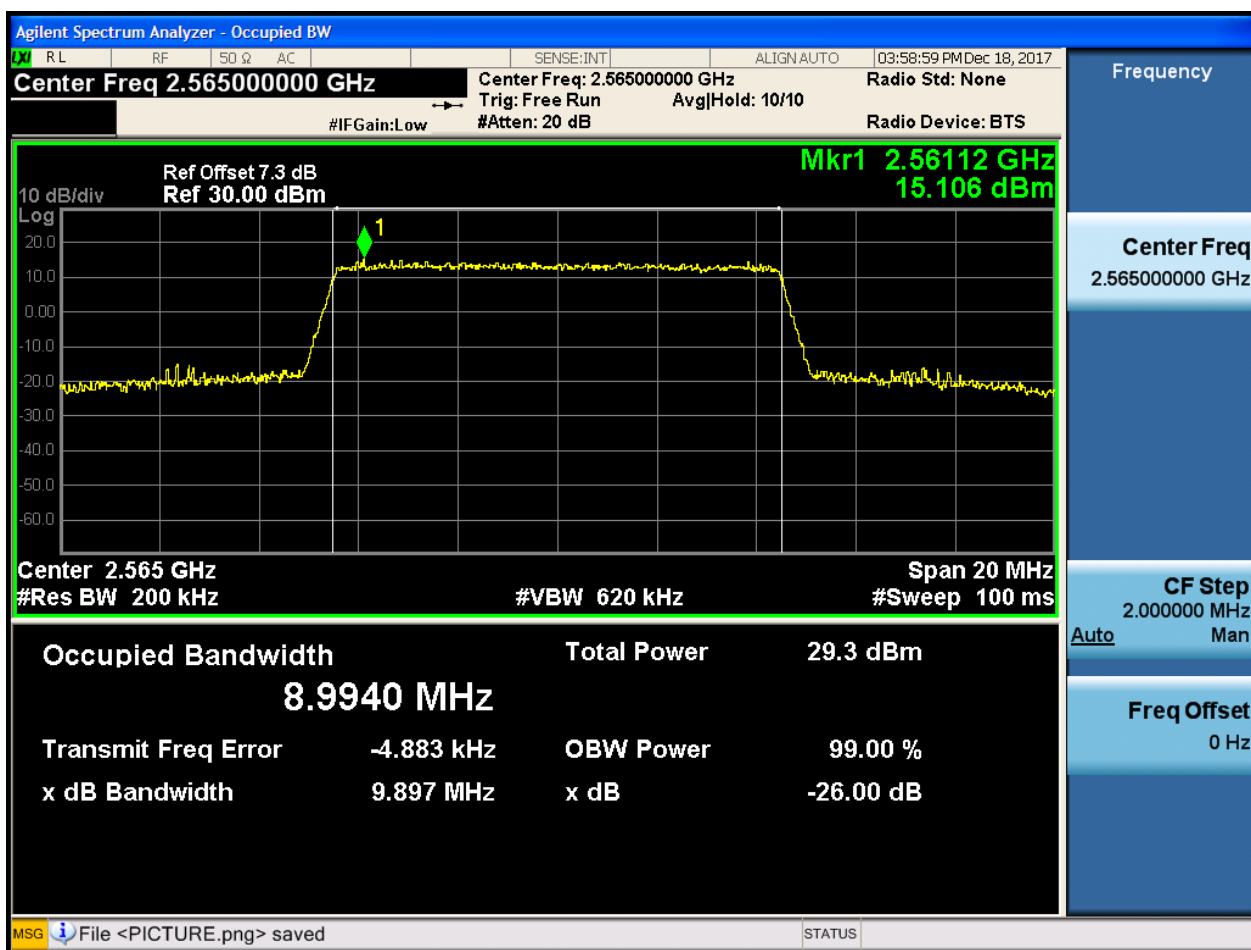
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

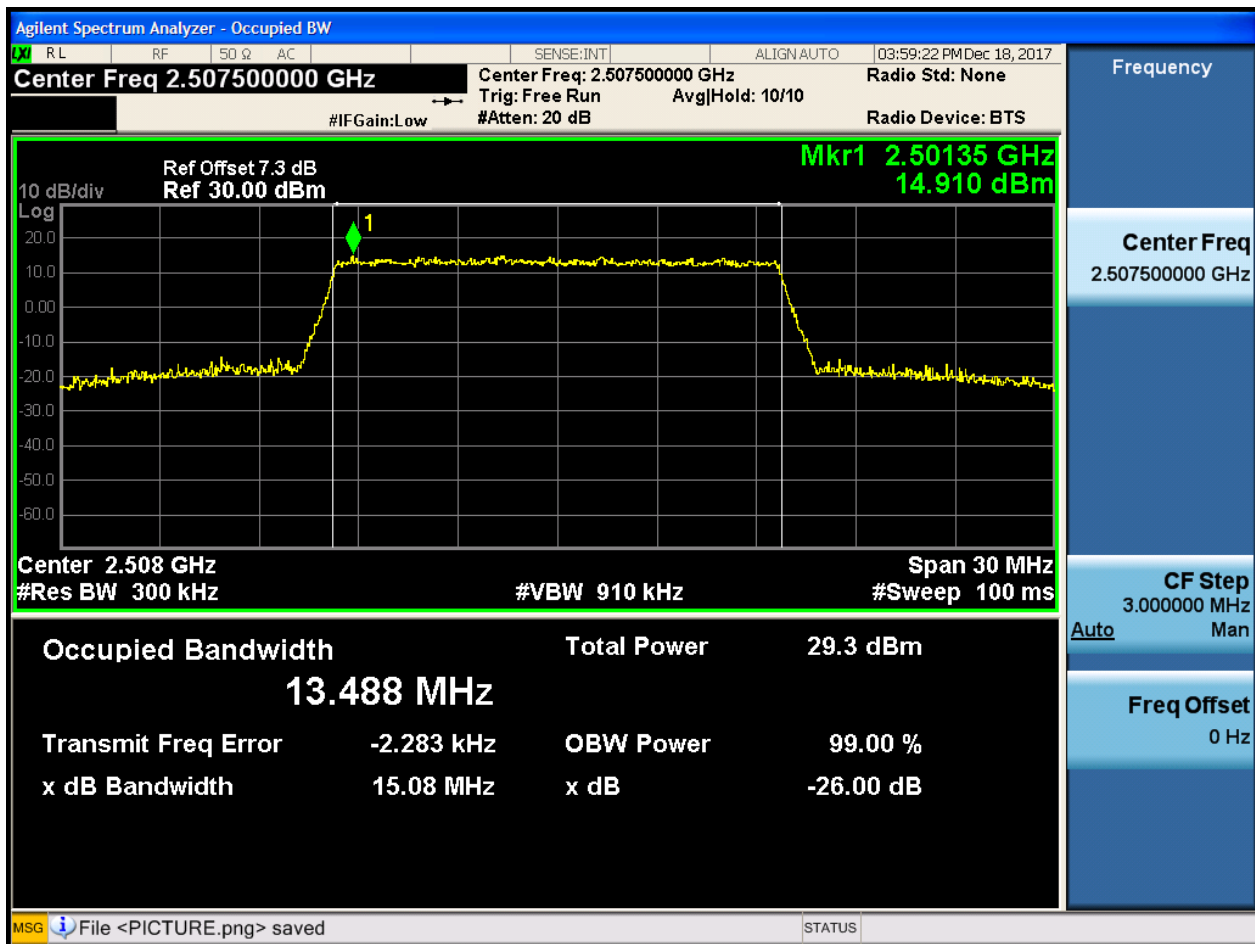




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

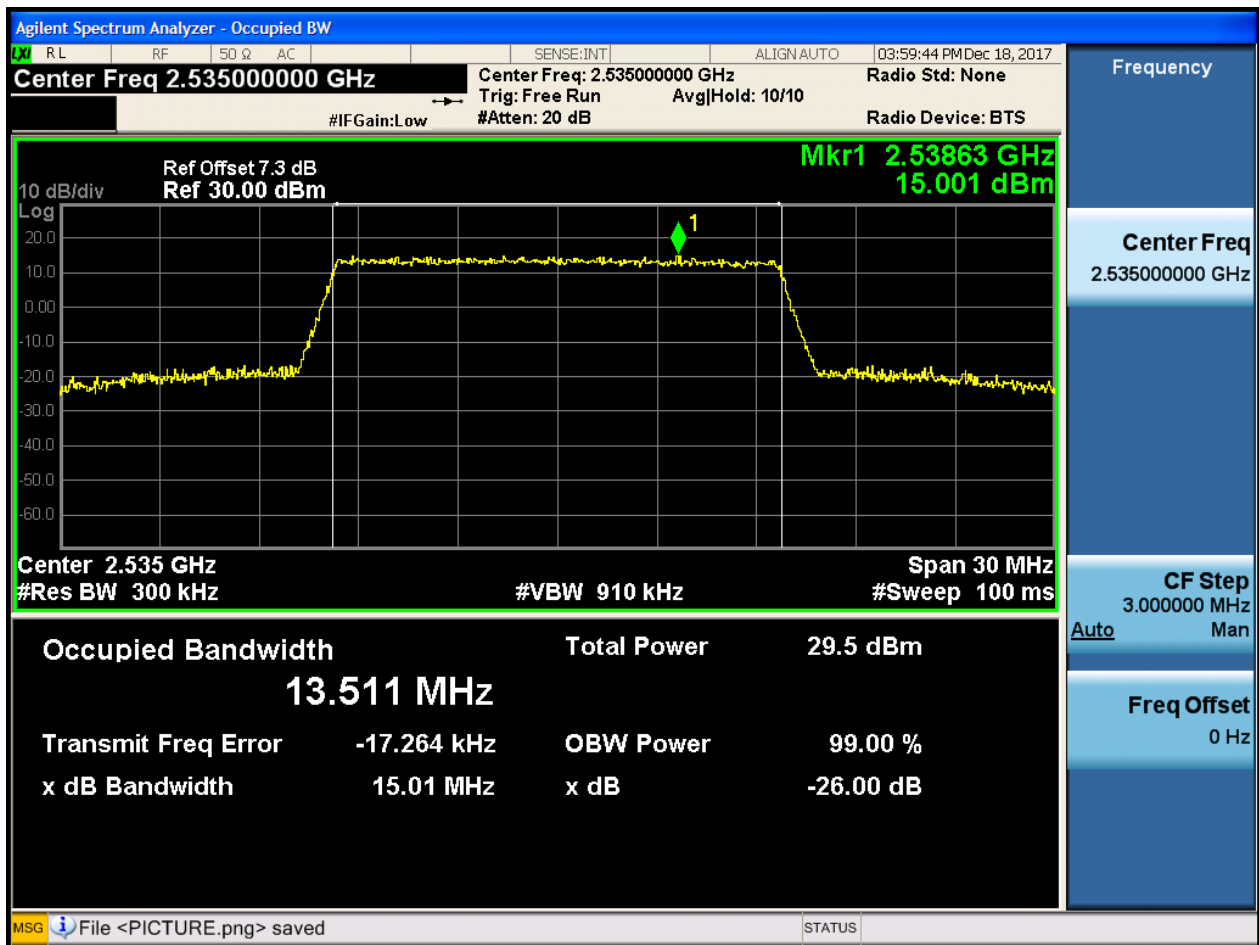
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

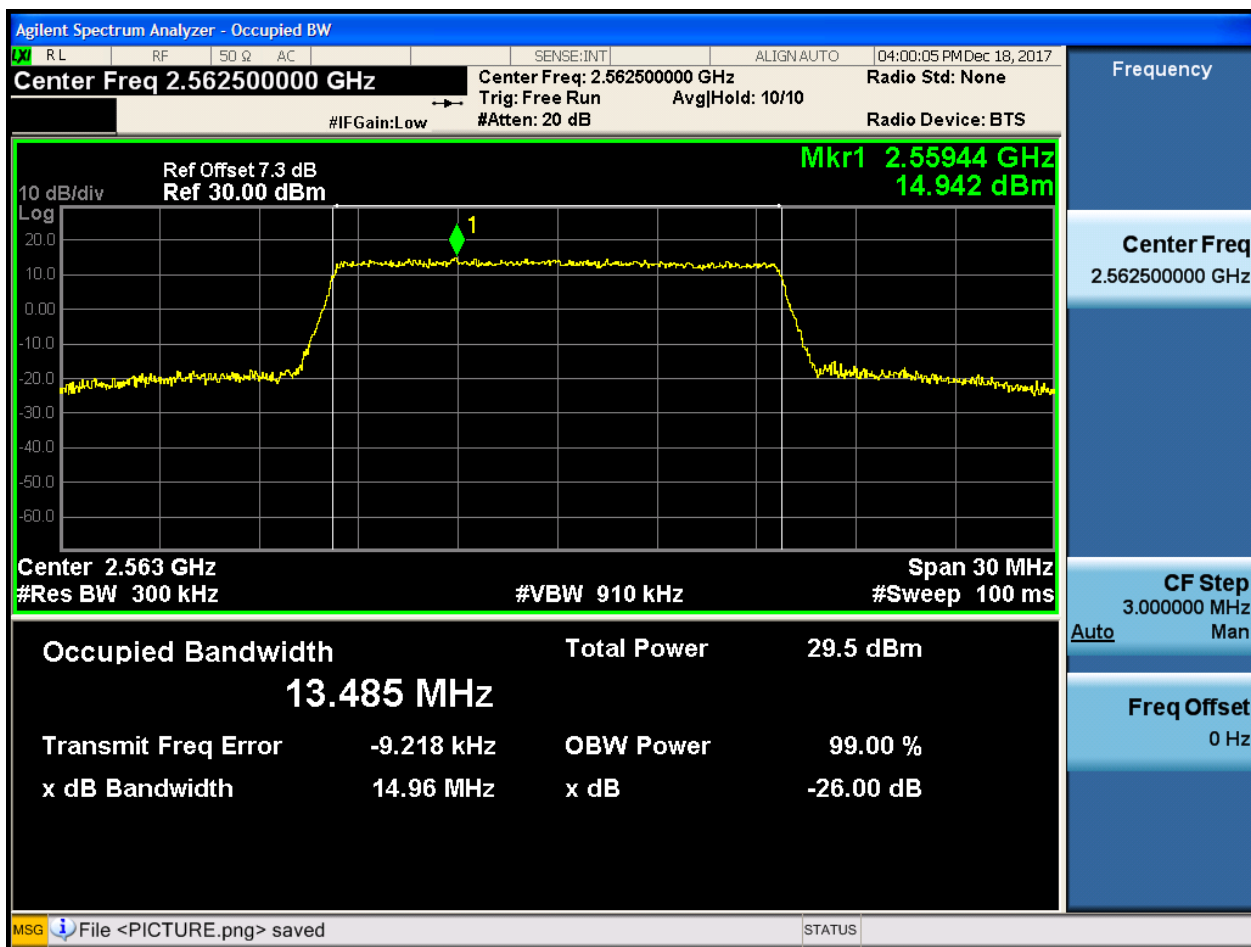
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

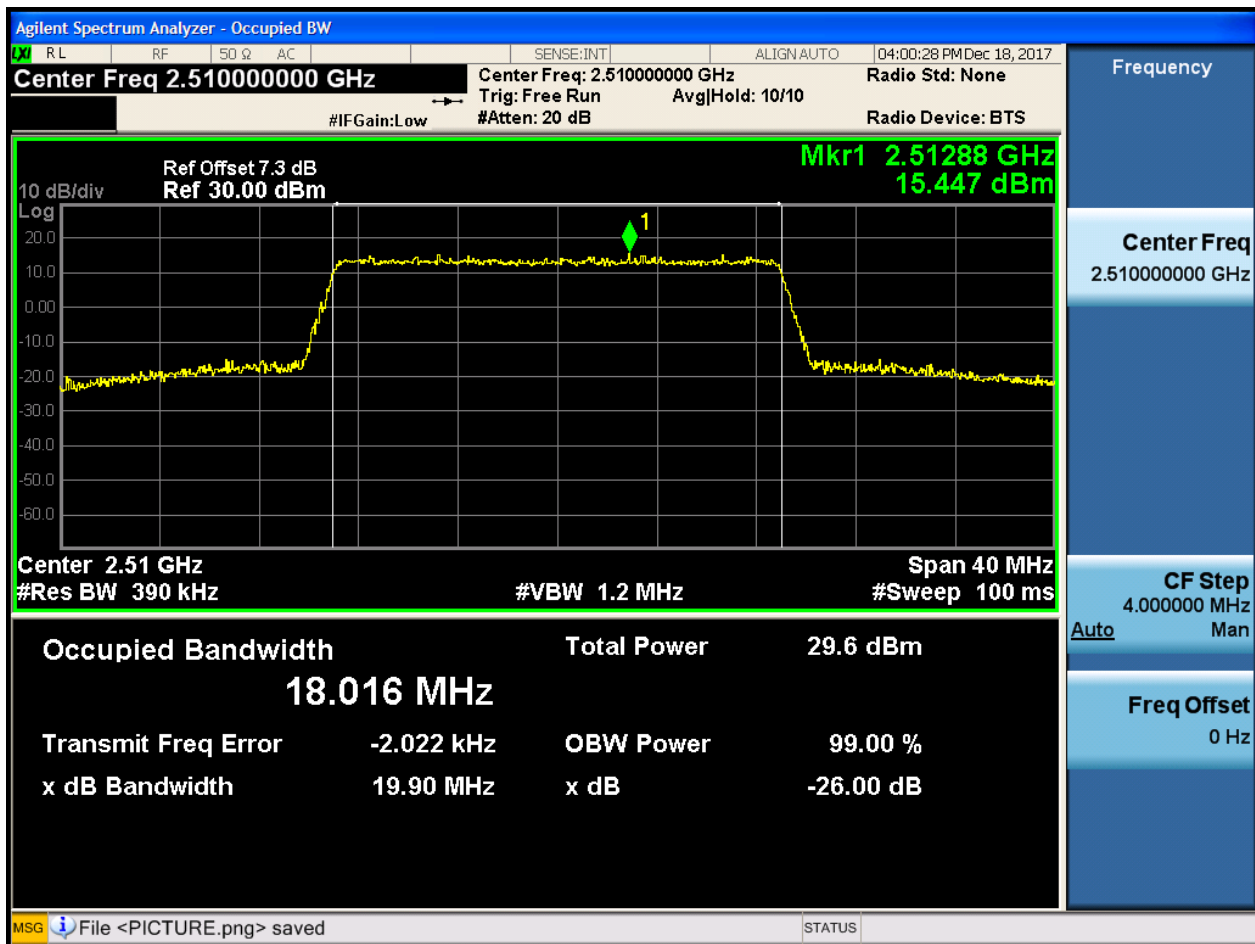




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

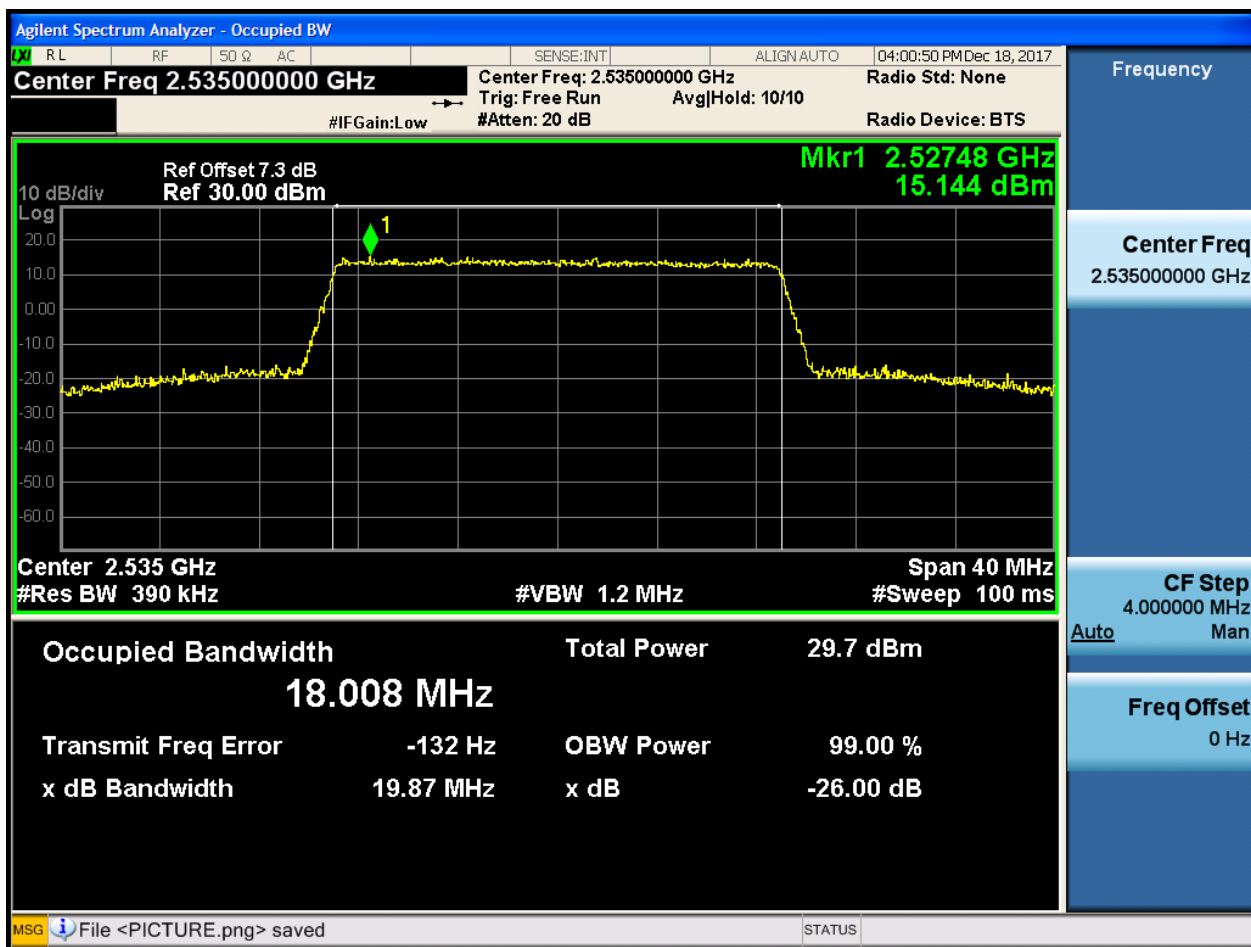
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

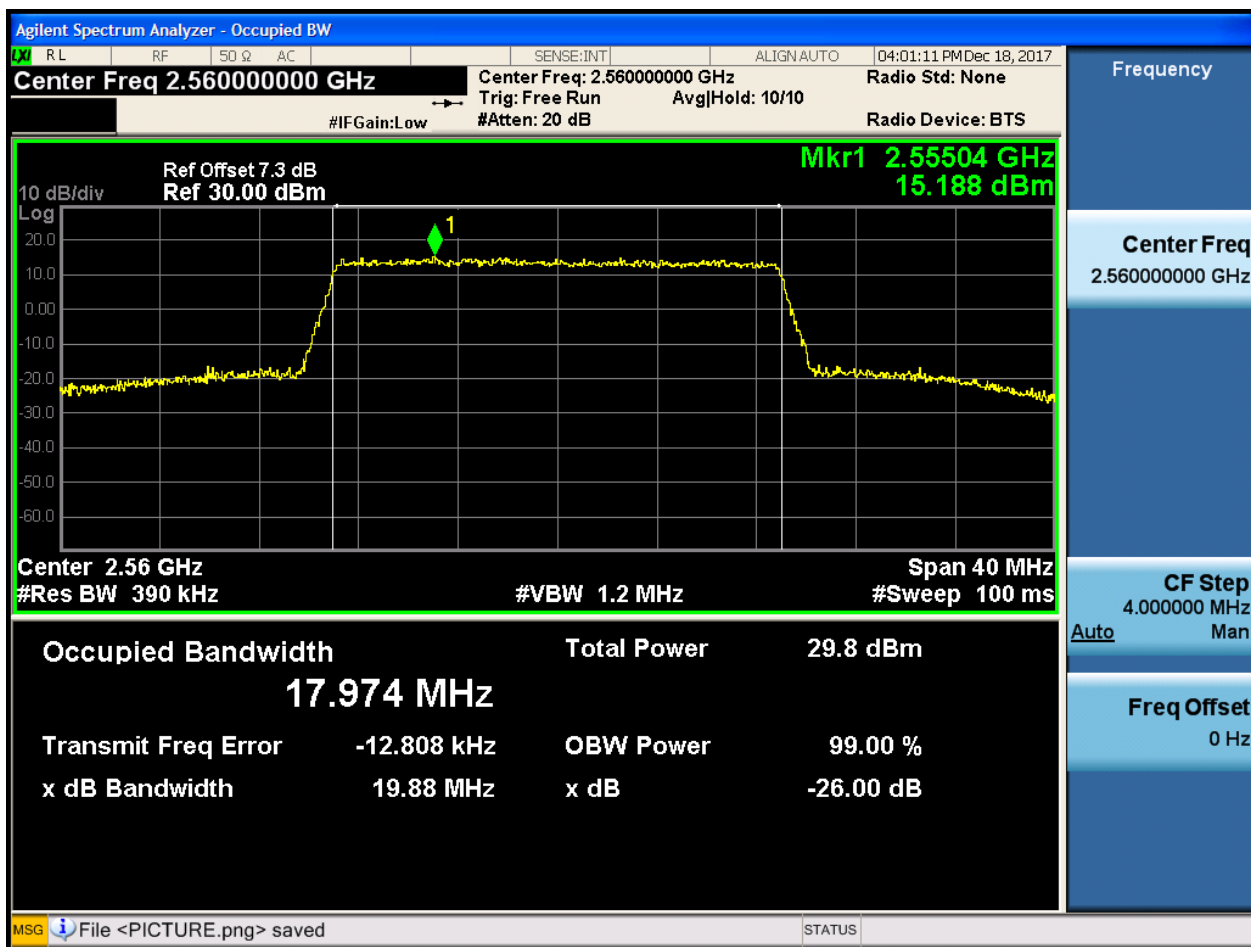
4.1.1.2.4.2.1 Test RB = RB100#0





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

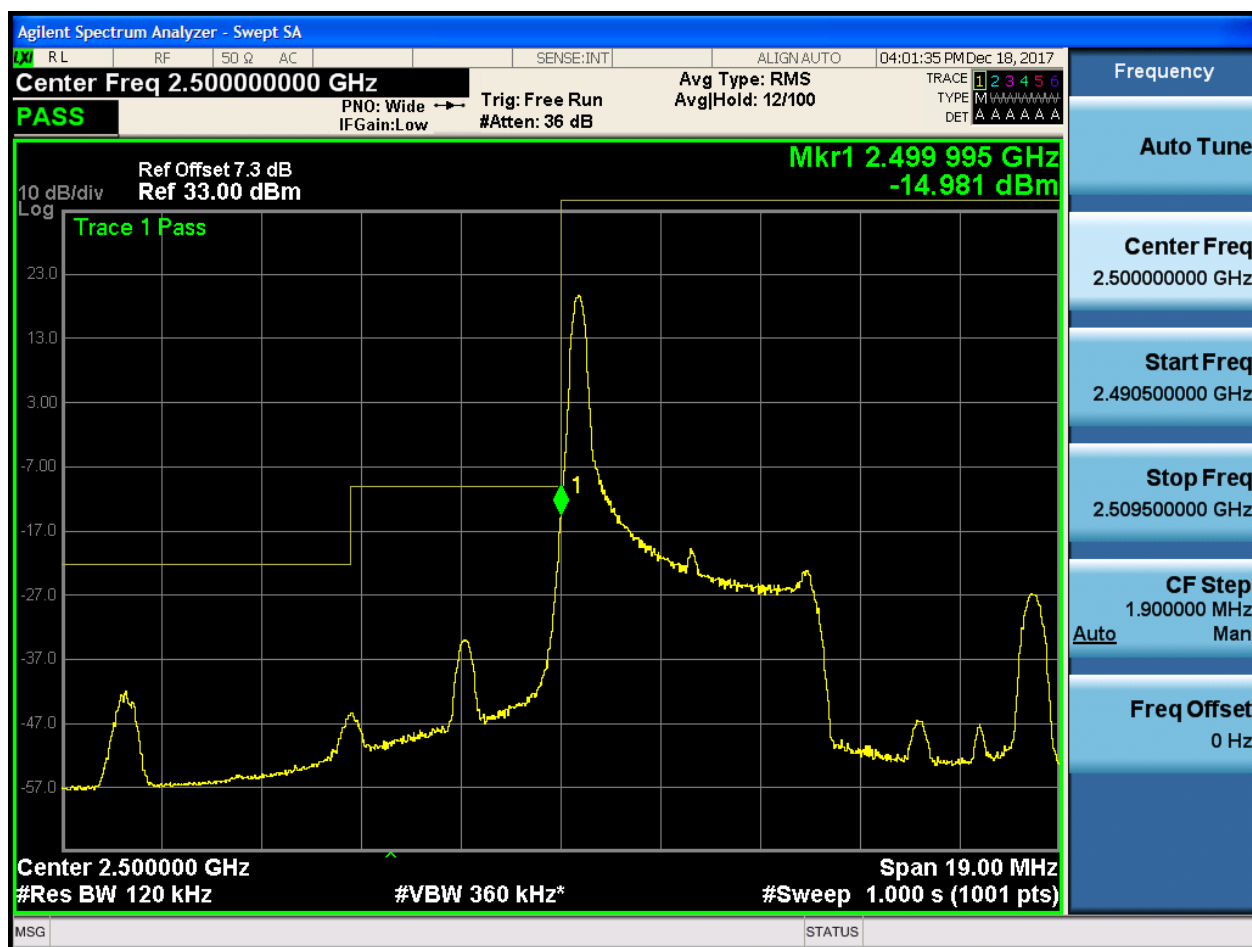
5.1.1 Test Band = BAND7

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:01:54 PM Dec 18, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 120 kHz IF Gain: Low Trig: Free Run Avg Hold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-35.469 dBm

10 dB/div
Log

Trace 1 Pass

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

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

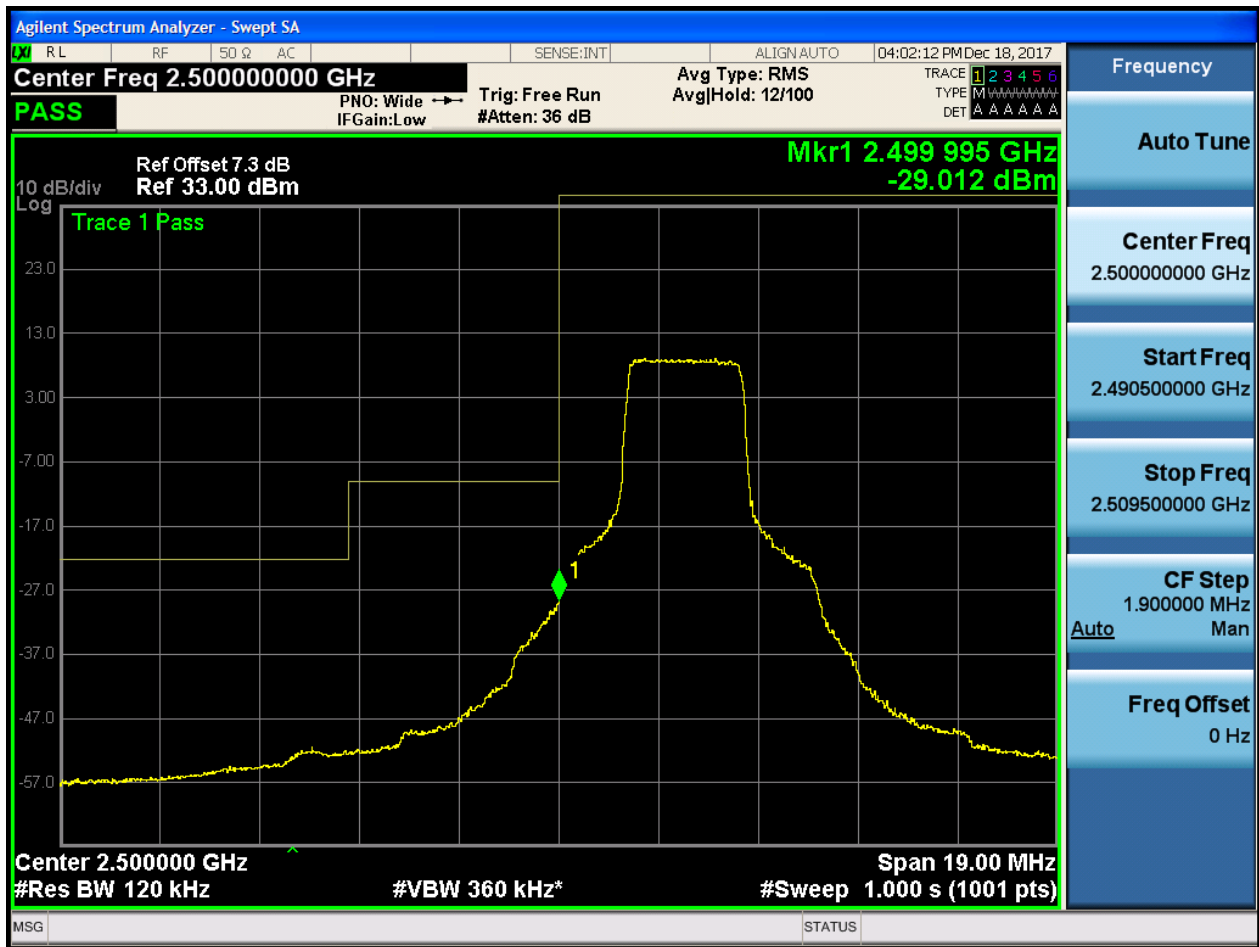
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.1.3 Test RB = RB12#6





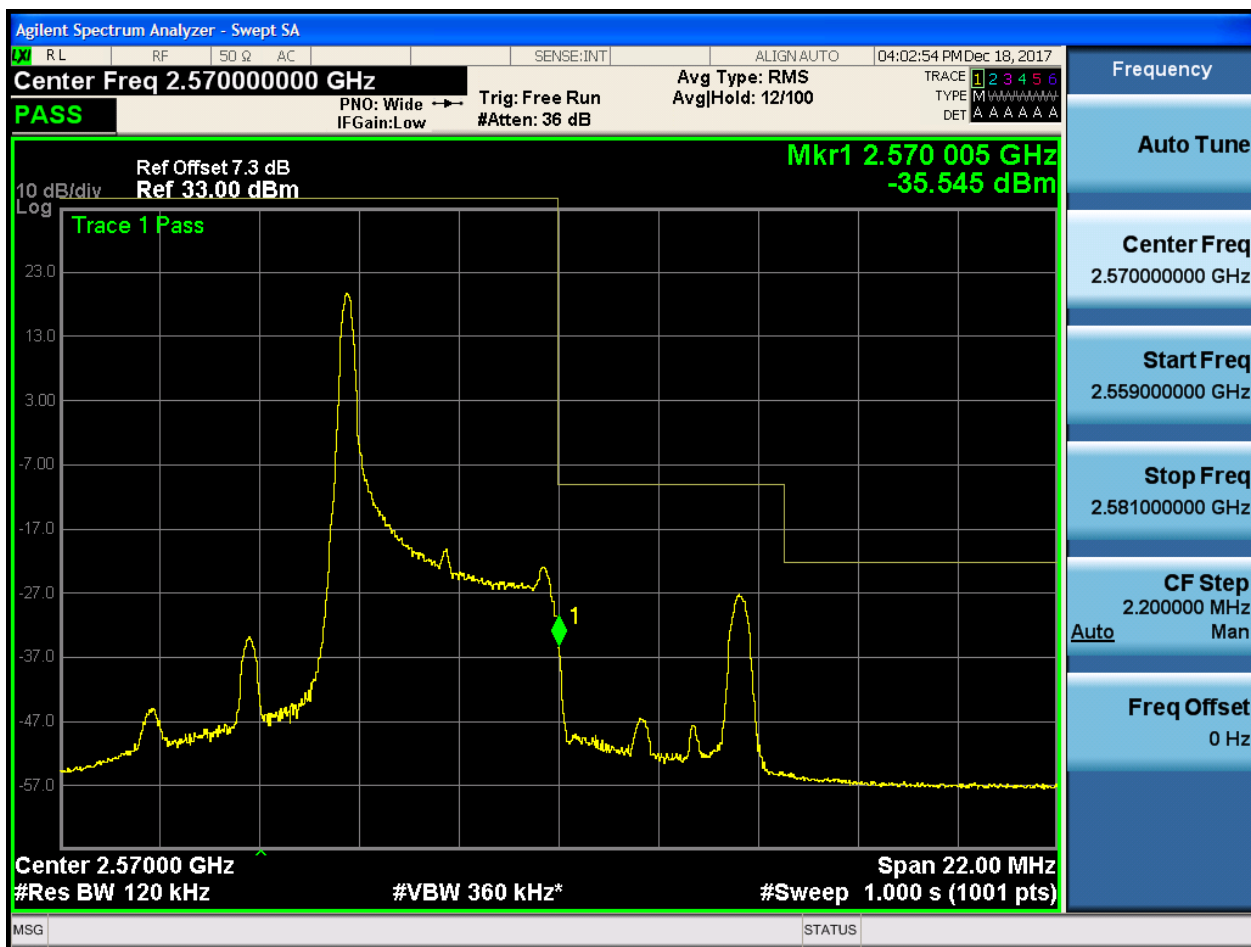
5.1.1.1.1.4 Test RB = RB25#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0

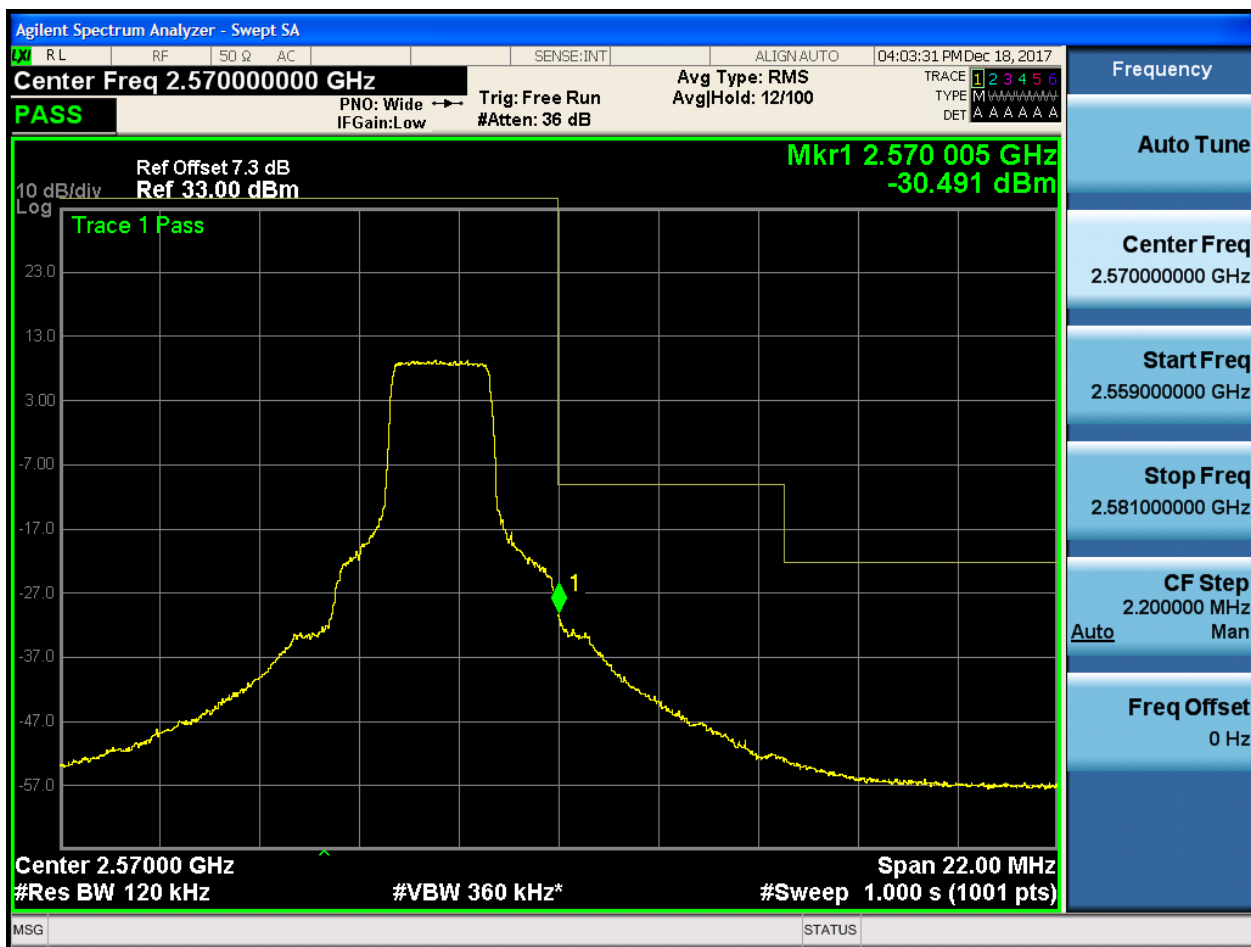




5.1.1.1.2.2 Test RB = RB1#24



5.1.1.1.1.2.3 Test RB = RB12#6





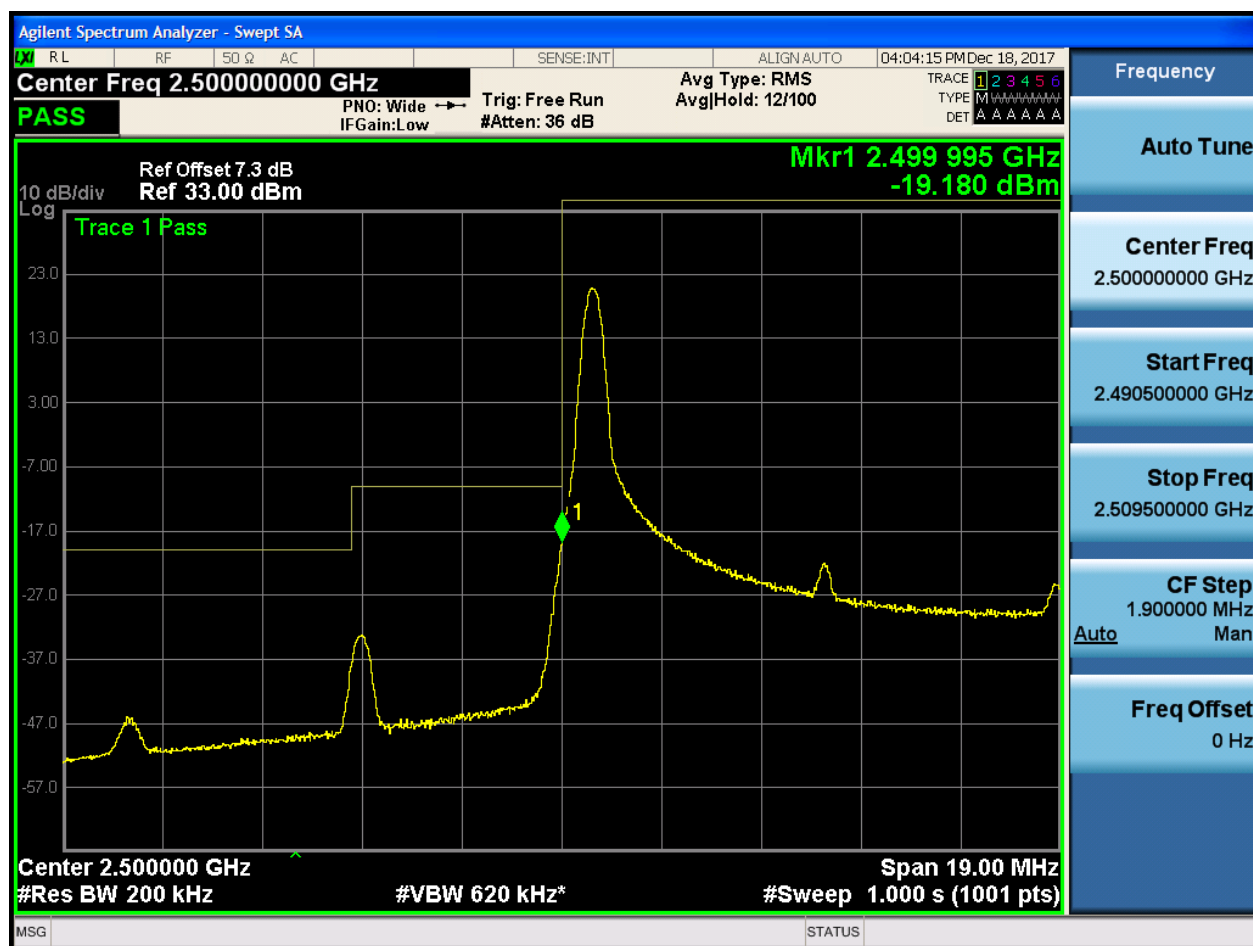
5.1.1.1.2.4 Test RB = RB25#0



5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:04:52 PM Dec 18, 2017

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

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-33.515 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 620 kHz* #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



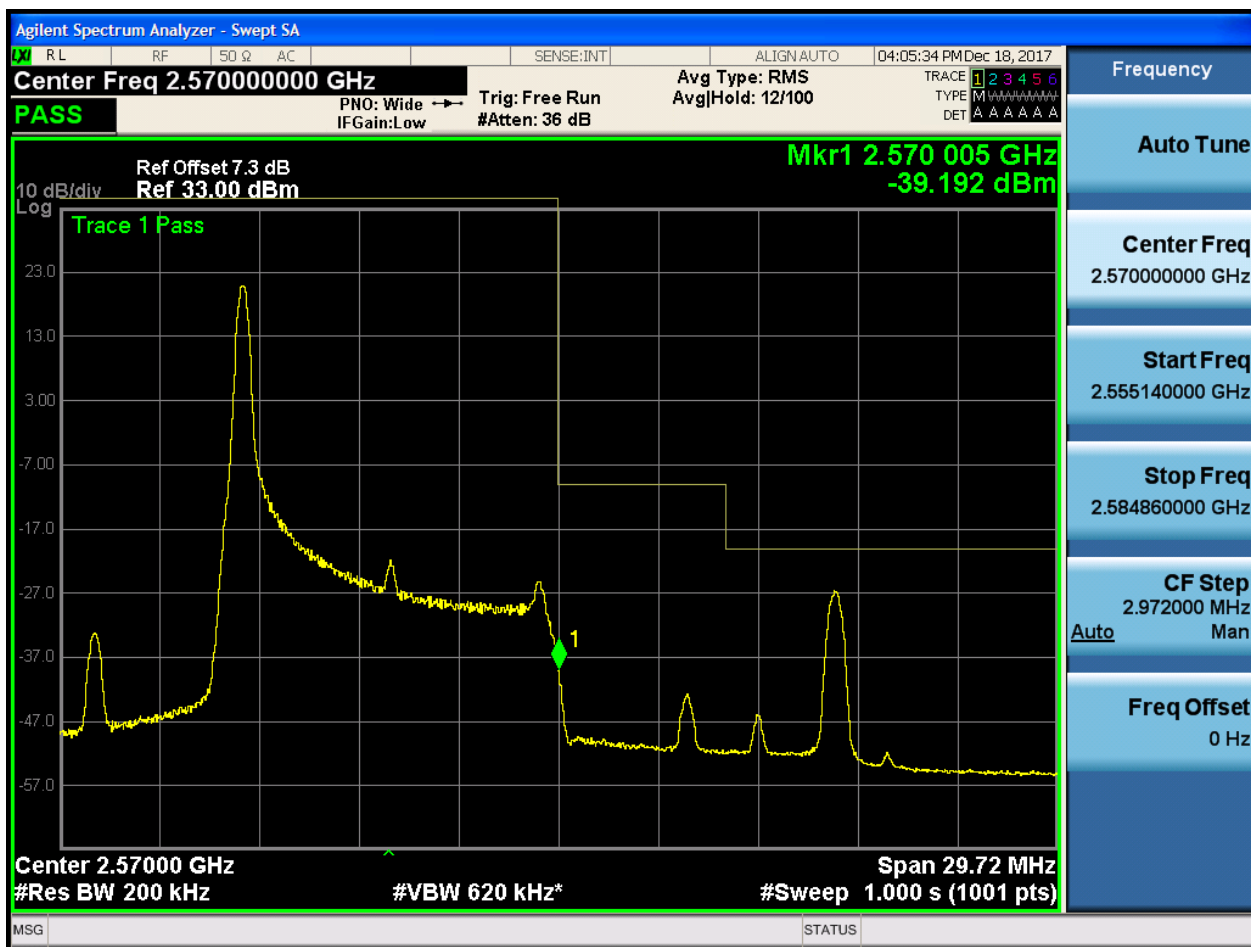
5.1.1.1.2.1.4 Test RB = RB50#0





5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:05:53 PM Dec 18, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB TYPE M DET A A A A A A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-19.228 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 29.72 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.555140000 GHz

Stop Freq
2.584860000 GHz

CF Step
2.972000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.2.3 Test RB = RB25#13





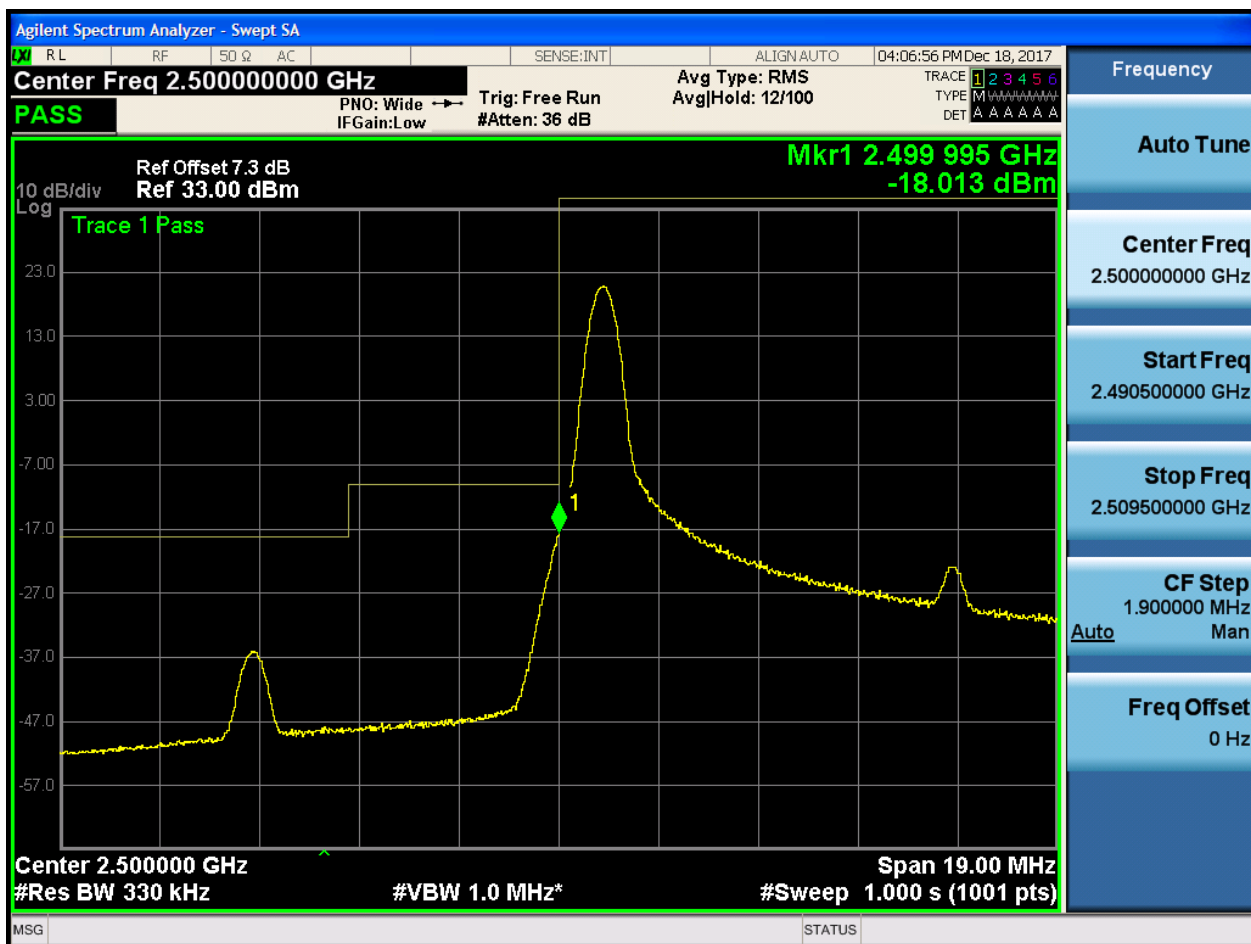
5.1.1.1.2.2.4 Test RB = RB50#0



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





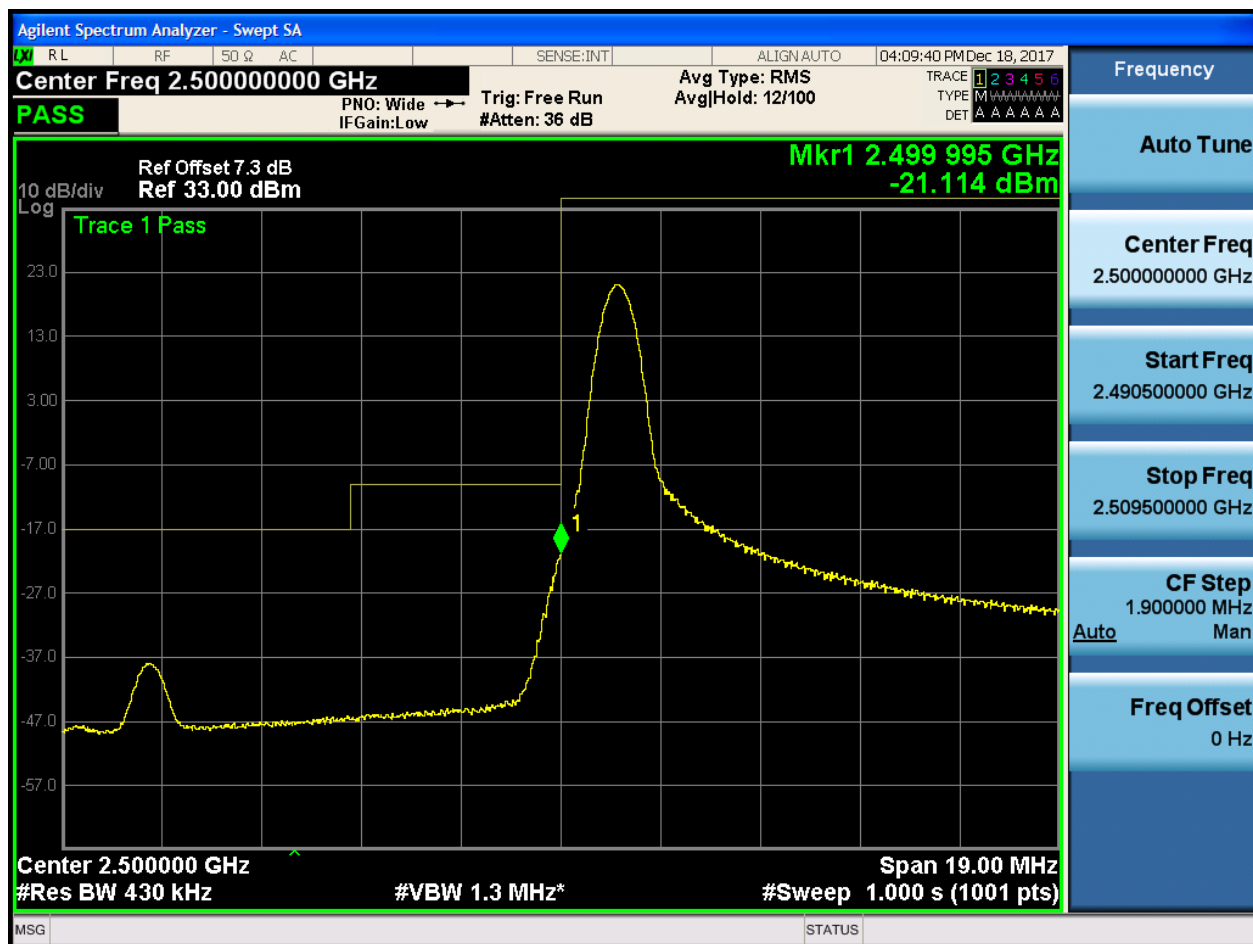
5.1.1.1.3.2.4 Test RB = RB75#0



5.1.1.1.4 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 04:10:00 PM Dec 18, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 430 kHz PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
PASS #Atten: 36 dB TRACE 1 2 3 4 5 6
TYPE M A A A A A A
DET A A A A A A A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-40.761 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 430 kHz #VBW 1.3 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



5.1.1.1.4.1.3 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:11:23 PM Dec 18, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast IF Gain: Low Trig: Free Run #Atten: 36 dB
TYPE M DET A A A A A A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-21.355 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*
Span 49.82 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.545090000 GHz

Stop Freq
2.594910000 GHz

CF Step
4.982000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



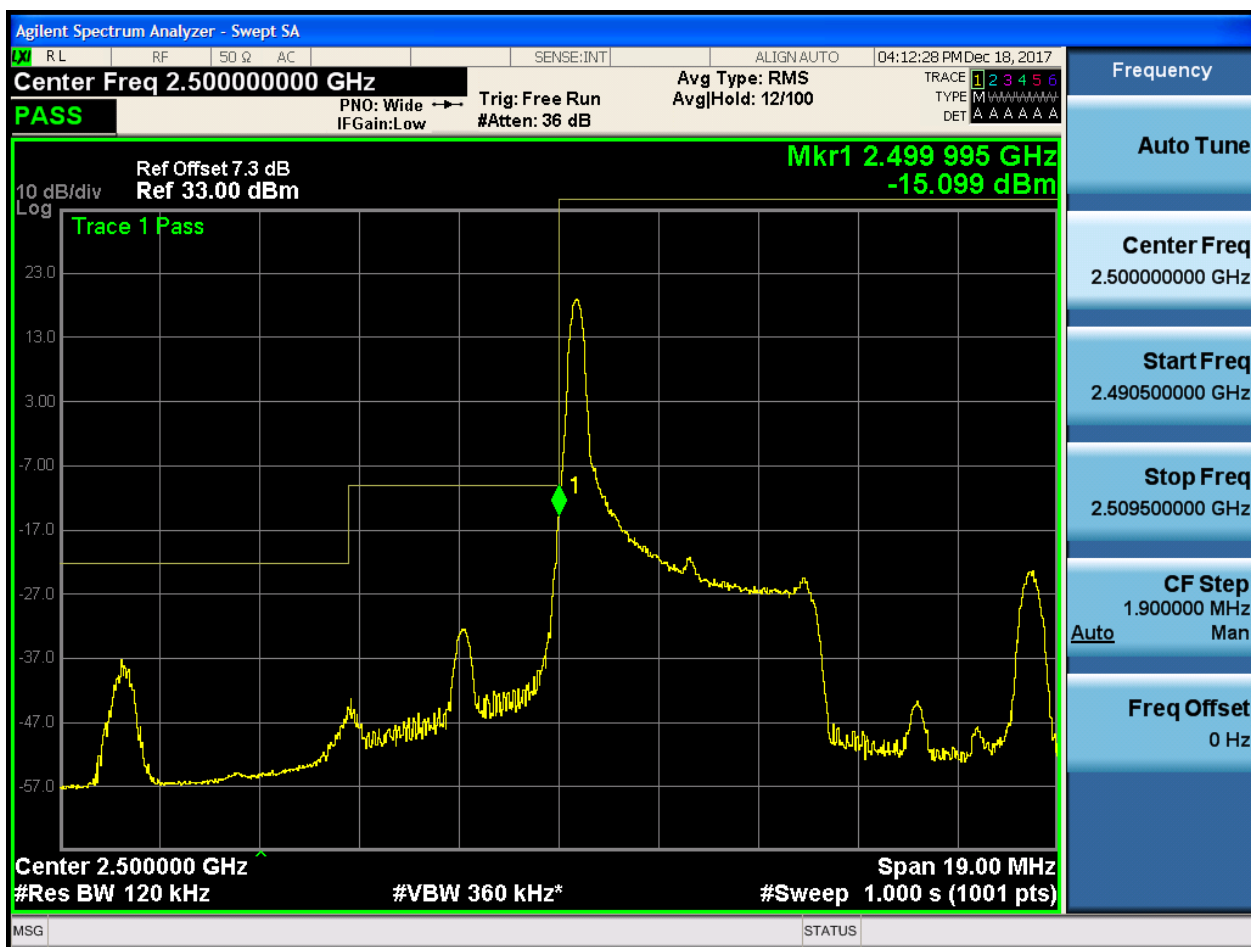


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

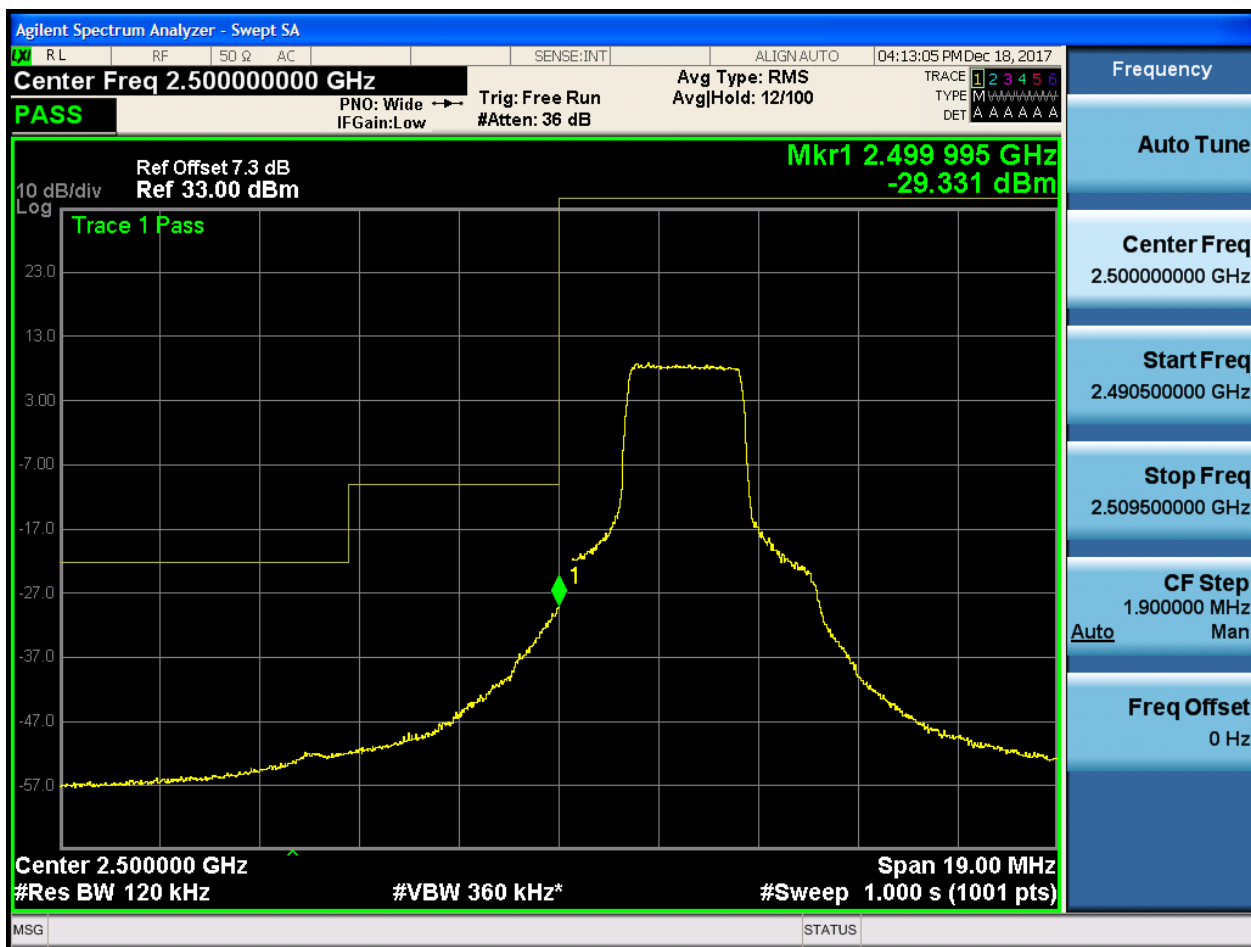
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.3 Test RB = RB12#6





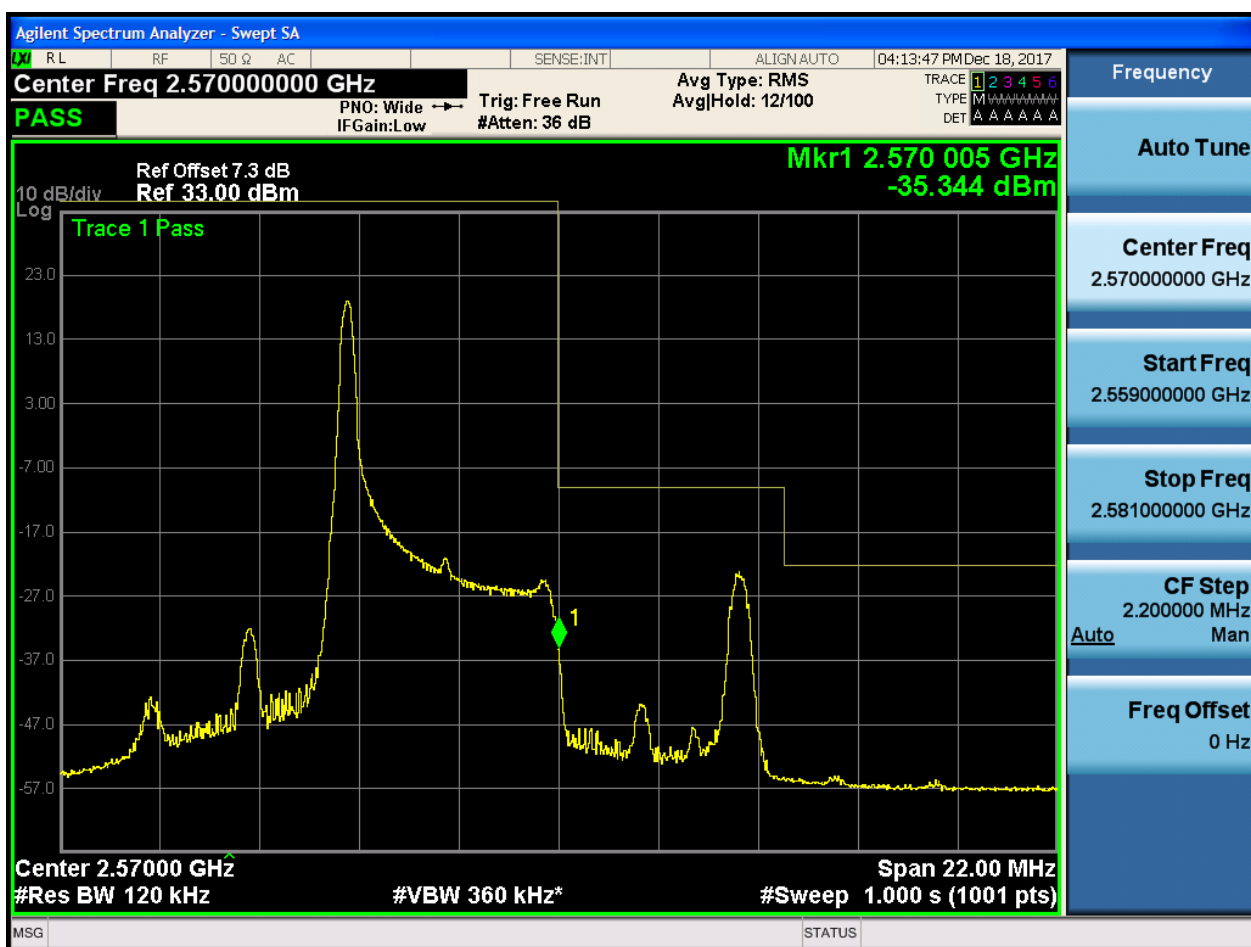
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



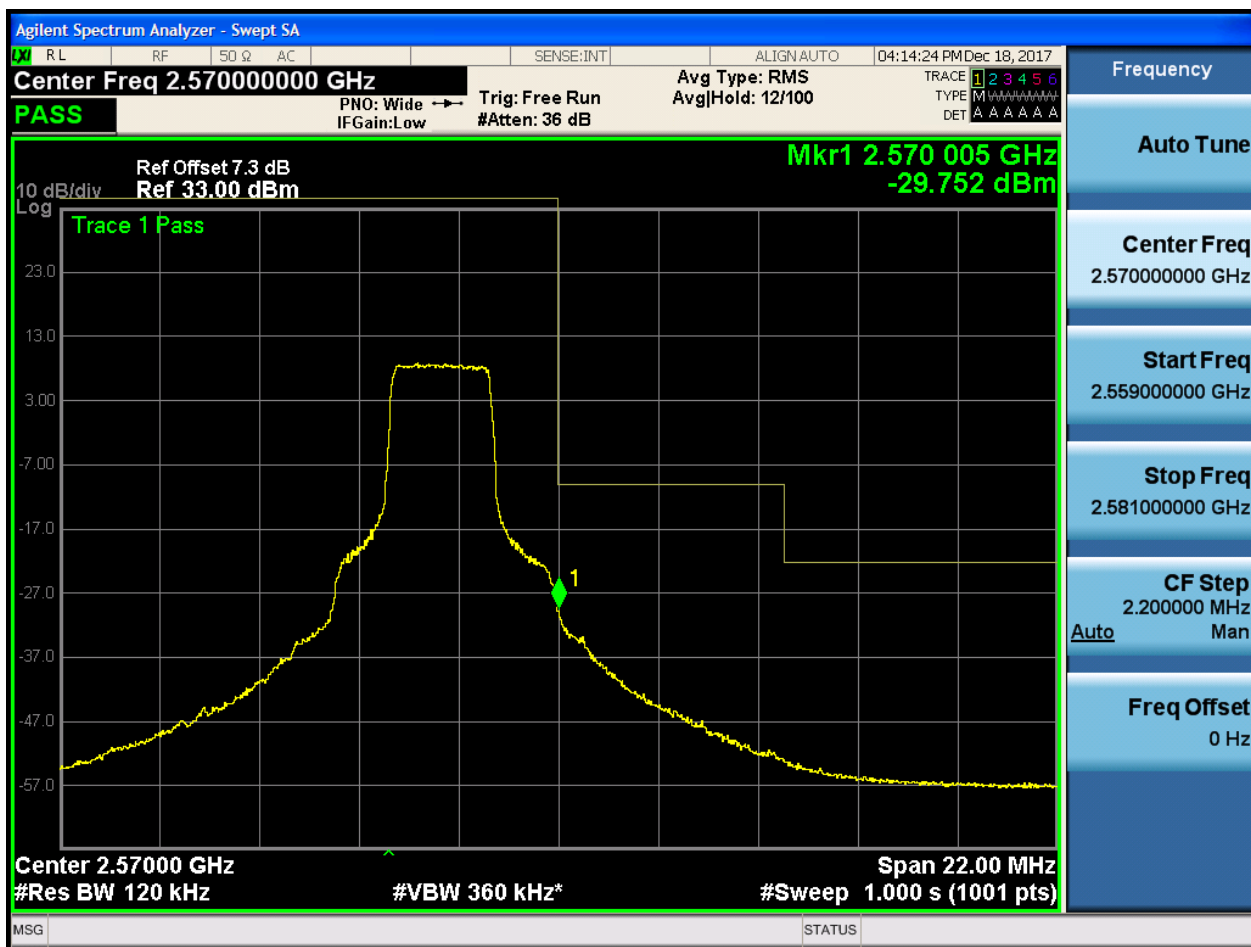


5.1.1.2.1.2.2 Test RB = RB1#24





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 04:14:42 PM Dec 18, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
PASS #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
-26.757 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

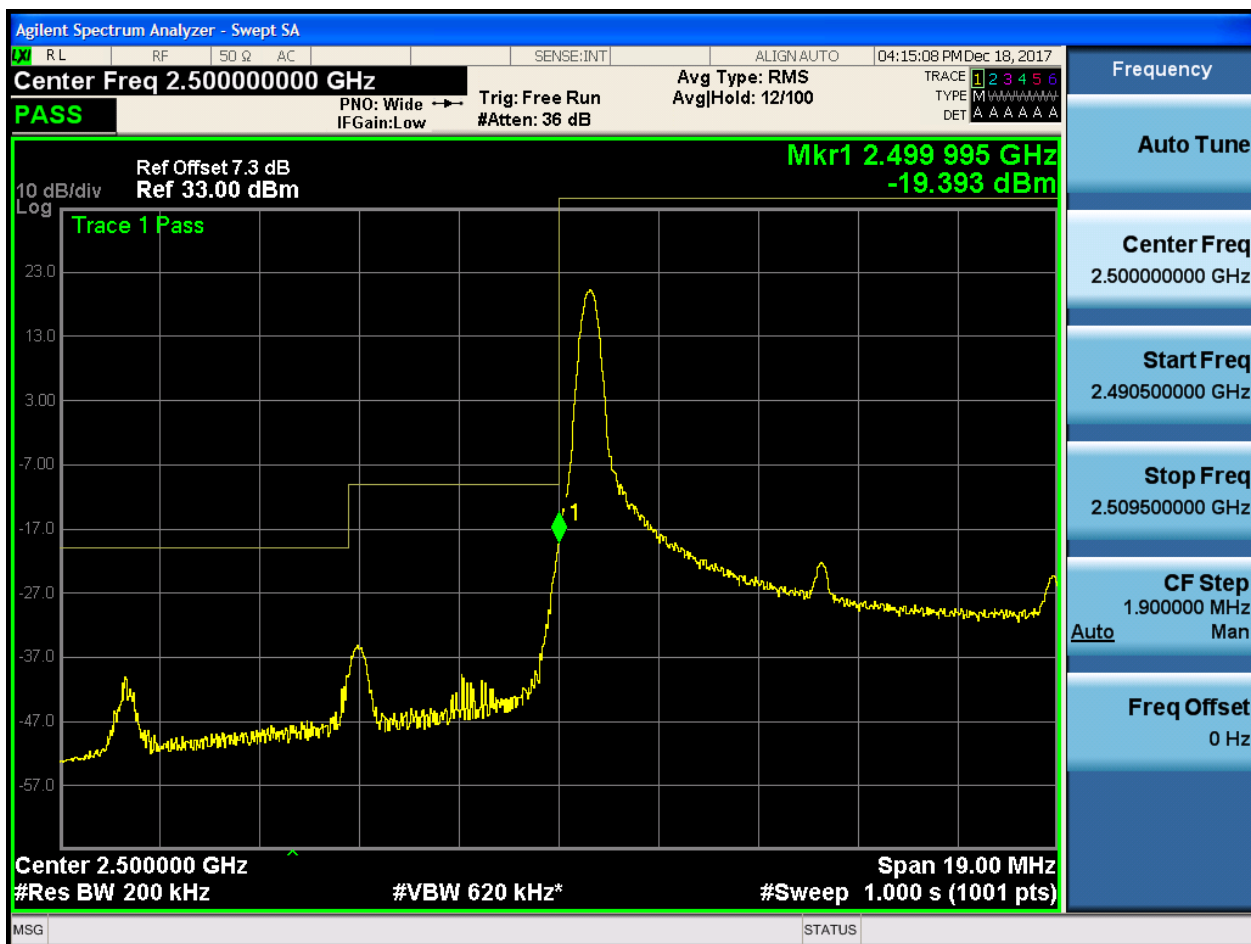
CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz

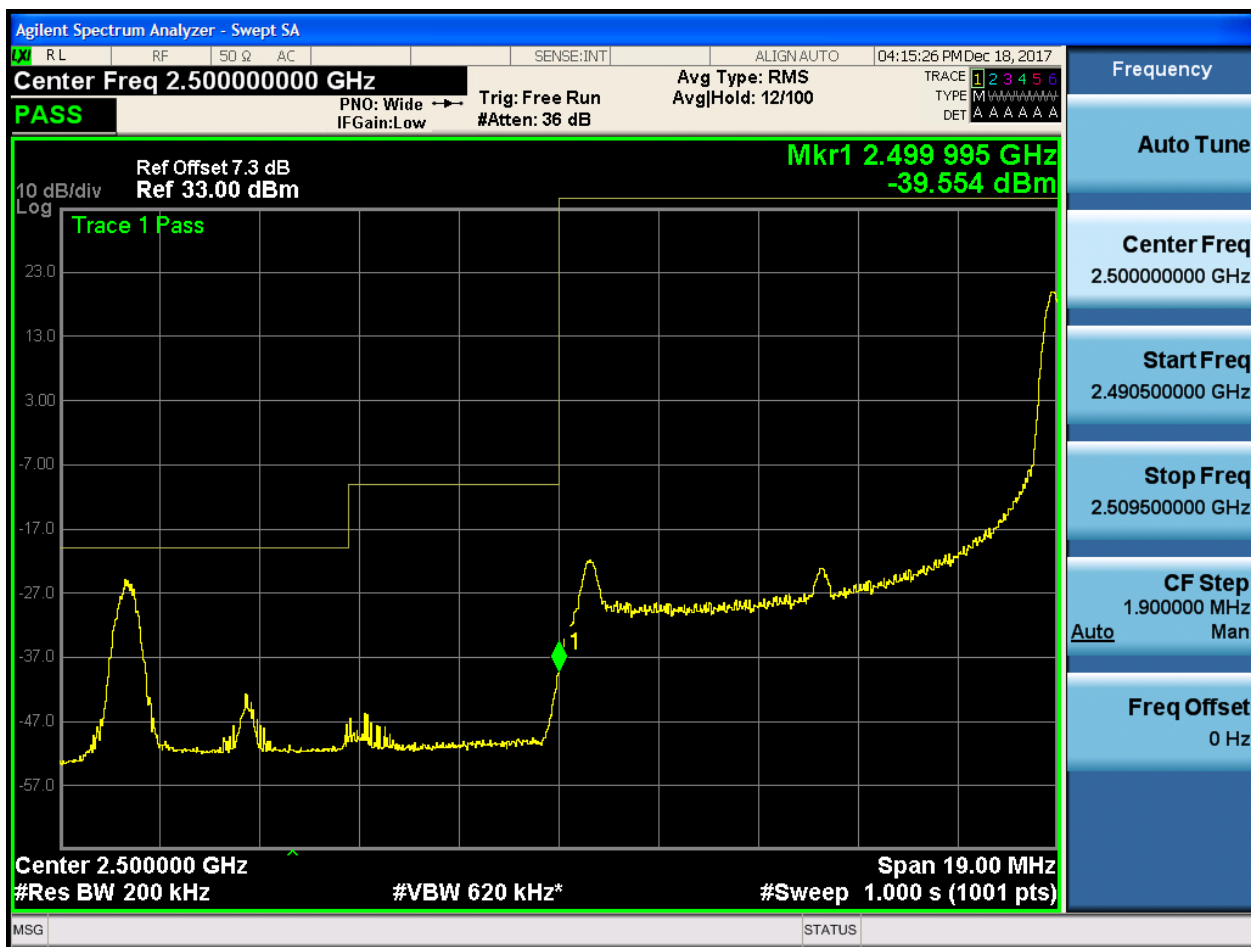
5.1.1.2.2 Test Bandwidth = 10

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:16:03 PM Dec 18, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run Avg/Hold: 12/100
PASS #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
-29.346 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 200 kHz
#VBW 620 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

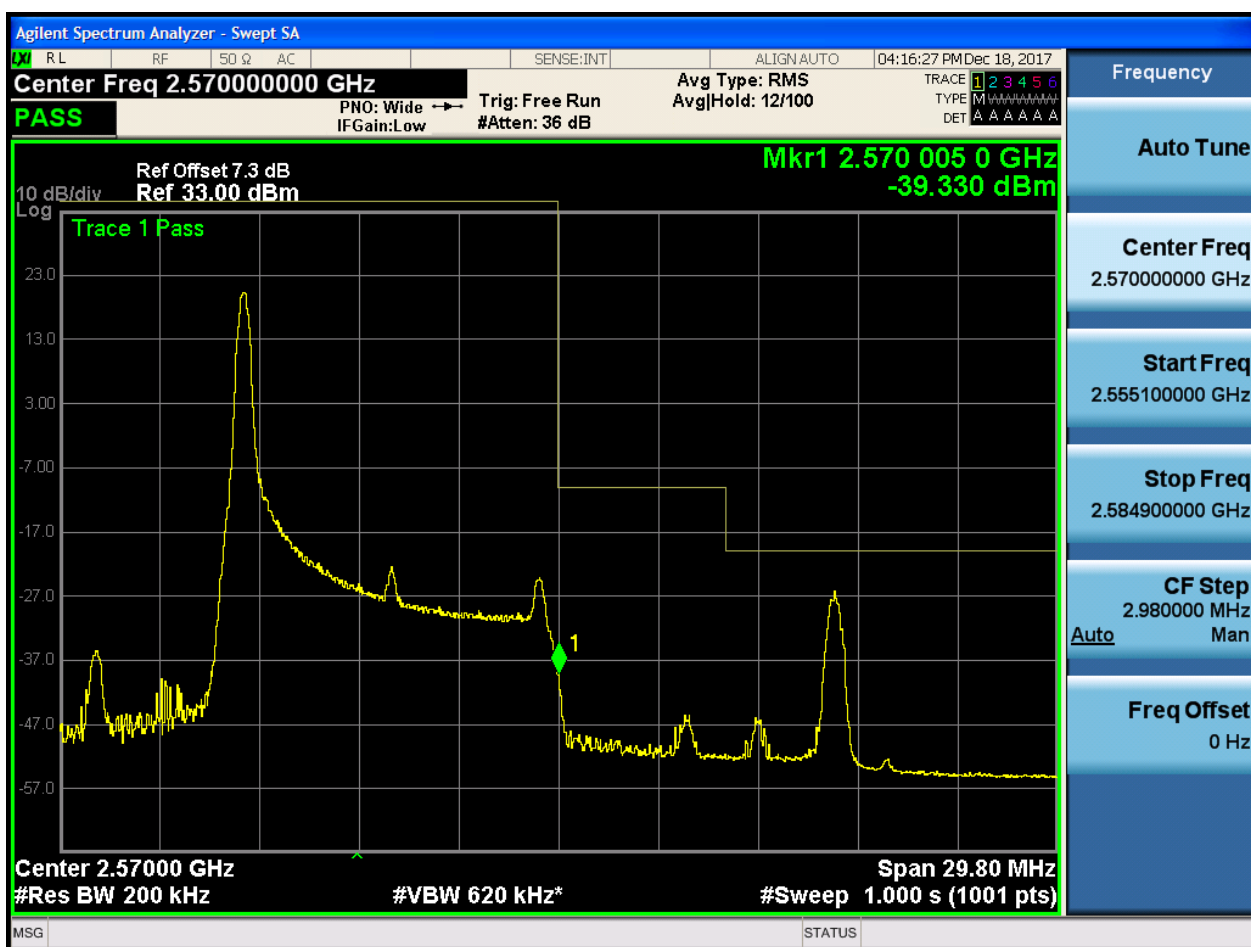
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.2 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





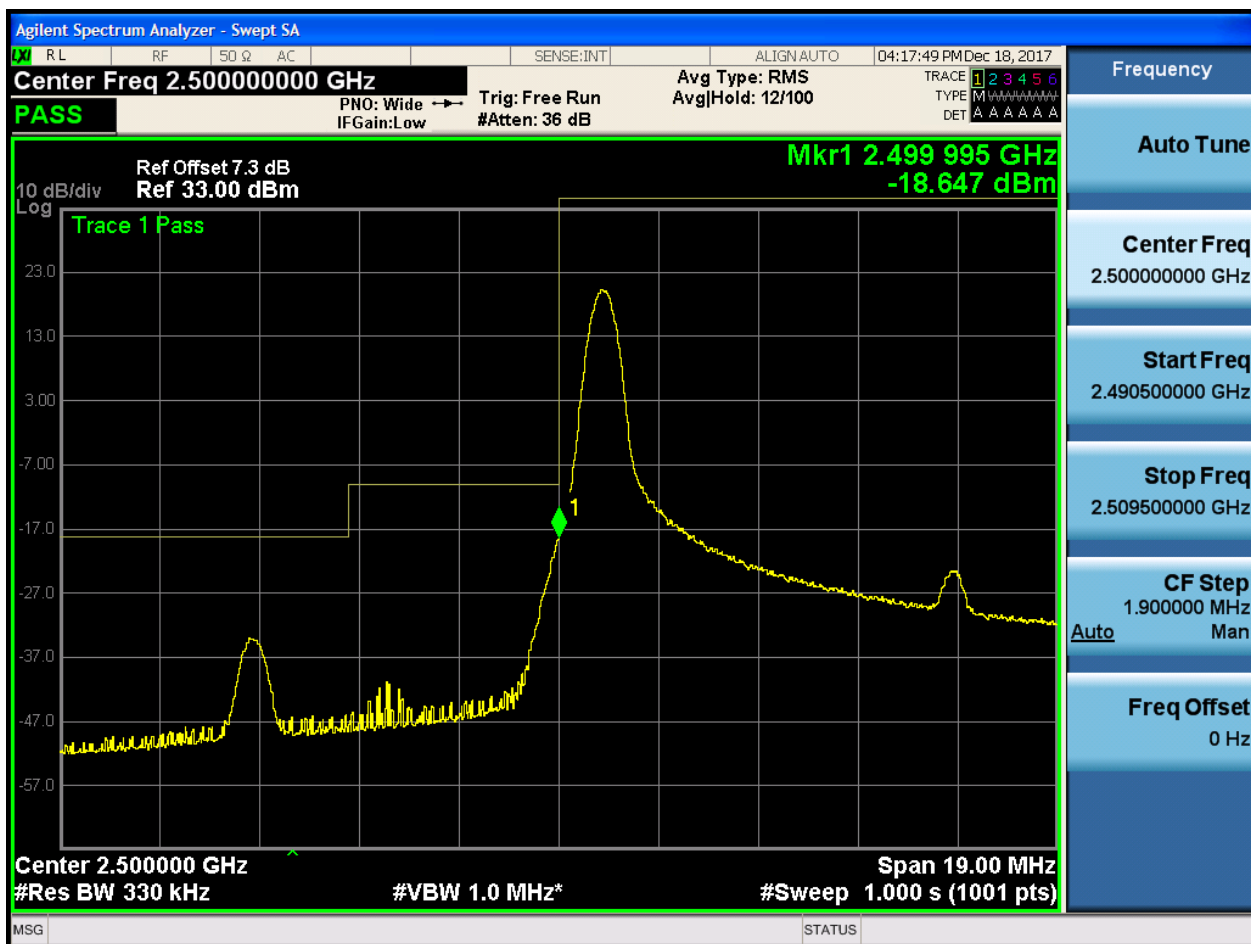
5.1.1.2.2.4 Test RB = RB50#0



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



[illegible]



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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:20:06 PM Dec 18, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
#Atten: 36 dB TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.3 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-28.310 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 39.92 MHz
#Res BW 300 kHz #VBW 910 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

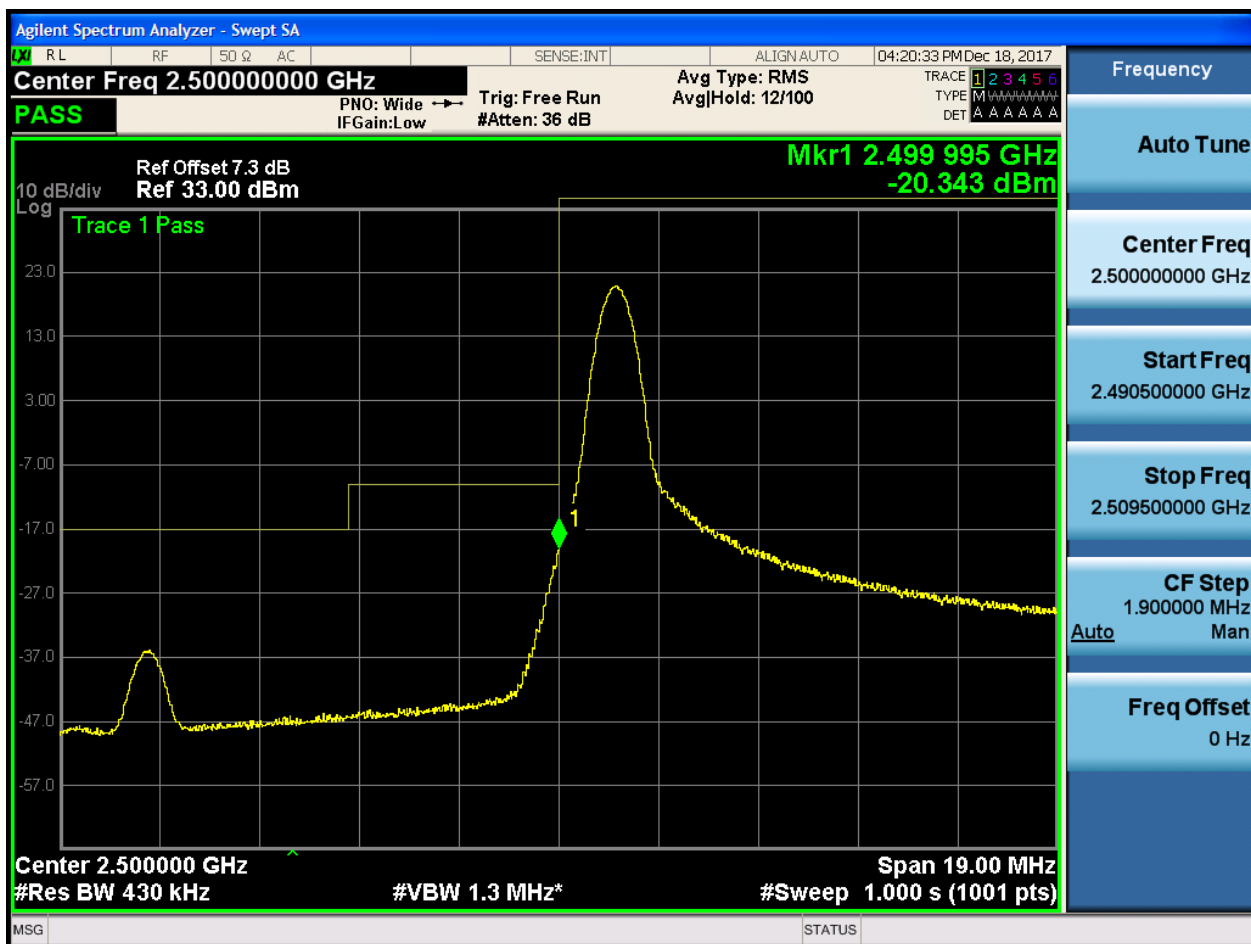
Frequency
Auto Tune
Center Freq 2.570000000 GHz
Start Freq 2.550040000 GHz
Stop Freq 2.589960000 GHz
CF Step 3.992000 MHz Auto Man
Freq Offset 0 Hz



5.1.1.2.4 Test Bandwidth = 20

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



5.1.1.2.4.1.2 Test RB = RB1#99



5.1.1.2.4.1.3 Test RB = RB50#25





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
-29.899 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 430 kHz
#VBW 1.3 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

Detailed description: The image is a screenshot of an Agilent Spectrum Analyzer in swept mode. The main display area shows a frequency spectrum with a yellow trace. A sharp peak is visible at 2.499995 GHz, marked with a green diamond and labeled '1'. The power level at this mark is -29.899 dBm. The center frequency is set to 2.500000000 GHz. The span is 19.00 MHz, and the resolution bandwidth (RBW) is 430 kHz. The video bandwidth (VBW) is 1.3 MHz. The signal is identified as 'Trace 1 Pass'. The background is dark gray with a grid. The top of the screen shows various settings like 'RF', '50 Ohm', 'AC', 'SENSE:INT', 'ALIGN AUTO', and the date/time '04:21:31 PM Dec 18, 2017'. The bottom status bar shows 'MSG' and 'STATUS'.



5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0

