



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	22.5	22.4	33	PASS
				RB1#13	22.67	22.57	33	PASS
				RB1#24	22.61	22.51	33	PASS
				RB12#0	21.75	21.65	33	PASS
				RB12#6	21.85	21.75	33	PASS
				RB12#13	21.81	21.71	33	PASS
				RB25#0	21.71	21.61	33	PASS
			MCH	RB1#0	22.65	22.55	33	PASS
				RB1#13	22.84	22.74	33	PASS
				RB1#24	22.82	22.72	33	PASS
				RB12#0	21.66	21.56	33	PASS
				RB12#6	21.78	21.68	33	PASS
				RB12#13	21.72	21.62	33	PASS
				RB25#0	21.74	21.64	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.5	22.4	33	PASS
				RB1#13	22.59	22.49	33	PASS
				RB1#24	22.56	22.46	33	PASS
				RB12#0	21.84	21.74	33	PASS
				RB12#6	21.76	21.66	33	PASS
				RB12#13	21.69	21.59	33	PASS
				RB25#0	21.82	21.72	33	PASS
		10	LCH	RB1#0	22.7	22.6	33	PASS
				RB1#25	23.01	22.91	33	PASS
				RB1#49	22.67	22.57	33	PASS
				RB25#0	21.7	21.6	33	PASS
				RB25#13	21.84	21.74	33	PASS
				RB25#25	21.71	21.61	33	PASS
				RB50#0	21.7	21.6	33	PASS
			MCH	RB1#0	22.63	22.53	33	PASS
				RB1#25	23	22.9	33	PASS
				RB1#49	22.62	22.52	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.72	21.62	33	PASS
				RB25#13	21.78	21.68	33	PASS
				RB25#25	21.71	21.61	33	PASS
				RB50#0	21.76	21.66	33	PASS
			HCH	RB1#0	22.73	22.63	33	PASS
				RB1#25	23.05	22.95	33	PASS
				RB1#49	22.72	22.62	33	PASS
				RB25#0	21.85	21.75	33	PASS
				RB25#13	21.97	21.87	33	PASS
				RB25#25	21.81	21.71	33	PASS
				RB50#0	21.9	21.8	33	PASS
		15	LCH	RB1#0	22.75	22.65	33	PASS
				RB1#38	22.84	22.74	33	PASS
				RB1#74	22.66	22.56	33	PASS
				RB36#0	21.71	21.61	33	PASS
				RB36#18	21.75	21.65	33	PASS
				RB36#39	21.63	21.53	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.68	21.58	33	PASS
			MCH	RB1#0	22.48	22.38	33	PASS
				RB1#38	22.66	22.56	33	PASS
				RB1#74	22.48	22.38	33	PASS
				RB36#0	21.69	21.59	33	PASS
				RB36#18	21.79	21.69	33	PASS
				RB36#39	21.74	21.64	33	PASS
				RB75#0	21.62	21.52	33	PASS
			HCH	RB1#0	22.46	22.36	33	PASS
				RB1#38	22.79	22.69	33	PASS
				RB1#74	22.58	22.48	33	PASS
				RB36#0	21.73	21.63	33	PASS
				RB36#18	21.9	21.8	33	PASS
				RB36#39	21.85	21.75	33	PASS
				RB75#0	21.69	21.59	33	PASS
		20	LCH	RB1#0	22.07	21.97	33	PASS
				RB1#50	22.69	22.59	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.03	21.93	33	PASS
				RB50#0	21.79	21.69	33	PASS
				RB50#25	21.79	21.69	33	PASS
				RB50#50	21.56	21.46	33	PASS
				RB100#0	21.67	21.57	33	PASS
			MCH	RB1#0	22.35	22.25	33	PASS
				RB1#50	22.64	22.54	33	PASS
				RB1#99	22.39	22.29	33	PASS
				RB50#0	21.65	21.55	33	PASS
				RB50#25	21.75	21.65	33	PASS
				RB50#50	21.66	21.56	33	PASS
				RB100#0	21.7	21.6	33	PASS
			HCH	RB1#0	22.77	22.67	33	PASS
				RB1#50	23.32	23.22	33	PASS
				RB1#99	22.97	22.87	33	PASS
				RB50#0	21.77	21.67	33	PASS
				RB50#25	21.86	21.76	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.83	21.73	33	PASS
				RB100#0	21.79	21.69	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.46	21.36	33	PASS
				RB1#13	21.39	21.29	33	PASS
				RB1#24	21.15	21.05	33	PASS
				RB12#0	20.74	20.64	33	PASS
				RB12#6	20.96	20.86	33	PASS
				RB12#13	20.83	20.73	33	PASS
				RB25#0	20.86	20.76	33	PASS
			MCH	RB1#0	21.07	20.97	33	PASS
				RB1#13	21.14	21.04	33	PASS
				RB1#24	21.12	21.02	33	PASS
				RB12#0	20.7	20.6	33	PASS
				RB12#6	20.83	20.73	33	PASS
				RB12#13	20.77	20.67	33	PASS
				RB25#0	20.64	20.54	33	PASS
			HCH	RB1#0	21.93	21.83	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.09	21.99	33	PASS
				RB1#24	22.05	21.95	33	PASS
				RB12#0	20.78	20.68	33	PASS
				RB12#6	20.8	20.7	33	PASS
				RB12#13	20.73	20.63	33	PASS
				RB25#0	20.73	20.63	33	PASS
		10	LCH	RB1#0	21.71	21.61	33	PASS
				RB1#25	22.09	21.99	33	PASS
				RB1#49	21.68	21.58	33	PASS
				RB25#0	20.79	20.69	33	PASS
				RB25#13	20.96	20.86	33	PASS
				RB25#25	20.87	20.77	33	PASS
				RB50#0	20.75	20.65	33	PASS
			MCH	RB1#0	21.34	21.24	33	PASS
				RB1#25	21.94	21.84	33	PASS
				RB1#49	21.36	21.26	33	PASS
				RB25#0	20.66	20.56	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.82	20.72	33	PASS
				RB25#25	20.76	20.66	33	PASS
				RB50#0	20.82	20.72	33	PASS
			HCH	RB1#0	21.24	21.14	33	PASS
				RB1#25	21.85	21.75	33	PASS
				RB1#49	20.99	20.89	33	PASS
				RB25#0	21.07	20.97	33	PASS
				RB25#13	21.2	21.1	33	PASS
				RB25#25	21.05	20.95	33	PASS
				RB50#0	20.87	20.77	33	PASS
		15	LCH	RB1#0	21.77	21.67	33	PASS
				RB1#38	21.77	21.67	33	PASS
				RB1#74	21.41	21.31	33	PASS
				RB36#0	20.82	20.72	33	PASS
				RB36#18	20.94	20.84	33	PASS
				RB36#39	20.81	20.71	33	PASS
				RB75#0	20.85	20.75	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.84	21.74	33	PASS
				RB1#38	21.51	21.41	33	PASS
				RB1#74	21.22	21.12	33	PASS
				RB36#0	20.5	20.4	33	PASS
				RB36#18	20.81	20.71	33	PASS
				RB36#39	20.75	20.65	33	PASS
				RB75#0	20.77	20.67	33	PASS
			HCH	RB1#0	21.4	21.3	33	PASS
				RB1#38	21.57	21.47	33	PASS
				RB1#74	21.54	21.44	33	PASS
				RB36#0	20.82	20.72	33	PASS
				RB36#18	20.89	20.79	33	PASS
				RB36#39	20.94	20.84	33	PASS
				RB75#0	20.67	20.57	33	PASS
		20	LCH	RB1#0	21.82	21.72	33	PASS
				RB1#50	21.97	21.87	33	PASS
				RB1#99	21.34	21.24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.85	20.75	33	PASS
				RB50#25	20.84	20.74	33	PASS
				RB50#50	20.61	20.51	33	PASS
				RB100#0	20.64	20.54	33	PASS
			MCH	RB1#0	21.17	21.07	33	PASS
				RB1#50	22	21.9	33	PASS
				RB1#99	21.36	21.26	33	PASS
				RB50#0	20.5	20.4	33	PASS
				RB50#25	20.83	20.73	33	PASS
				RB50#50	20.64	20.54	33	PASS
				RB100#0	20.74	20.64	33	PASS
			HCH	RB1#0	21.62	21.52	33	PASS
				RB1#50	22.05	21.95	33	PASS
				RB1#99	21.78	21.68	33	PASS
				RB50#0	20.77	20.67	33	PASS
				RB50#25	20.74	20.64	33	PASS
				RB50#50	20.8	20.7	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.79	20.69	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,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

Note2:

SET Span=1.5*OBW

SET RBW=1%of the OBW, not to exceed 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	3.15	13	PASS
				RB1#13	2.72	13	PASS
				RB1#24	3.19	13	PASS
				RB12#0	4.26	13	PASS
				RB12#6	4.07	13	PASS
				RB12#13	4.46	13	PASS
				RB25#0	5.04	13	PASS
			MCH	RB1#0	3.32	13	PASS
				RB1#13	2.96	13	PASS
				RB1#24	3.33	13	PASS
				RB12#0	4.44	13	PASS
				RB12#6	4.27	13	PASS
				RB12#13	4.53	13	PASS
				RB25#0	5.14	13	PASS
			HCH	RB1#0	3.35	13	PASS
				RB1#13	3.2	13	PASS
				RB1#24	3.42	13	PASS
				RB12#0	4.65	13	PASS
				RB12#6	4.49	13	PASS
				RB12#13	4.72	13	PASS
				RB25#0	5.26	13	PASS
		10	LCH	RB1#0	3.06	13	PASS
				RB1#25	2.79	13	PASS
				RB1#49	3.41	13	PASS
				RB25#0	4.34	13	PASS
				RB25#13	4.31	13	PASS
				RB25#25	4.74	13	PASS
				RB50#0	5.16	13	PASS
			MCH	RB1#0	3.27	13	PASS
				RB1#25	2.97	13	PASS
				RB1#49	3.49	13	PASS
				RB25#0	4.51	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	4.38	13	PASS
				RB25#25	4.57	13	PASS
				RB50#0	5.16	13	PASS
			HCH	RB1#0	3.35	13	PASS
				RB1#25	3.23	13	PASS
				RB1#49	3.38	13	PASS
				RB25#0	4.72	13	PASS
				RB25#13	4.64	13	PASS
				RB25#25	4.77	13	PASS
				RB50#0	5.21	13	PASS
		15	LCH	RB1#0	2.93	13	PASS
				RB1#38	2.93	13	PASS
				RB1#74	3.56	13	PASS
				RB36#0	4.69	13	PASS
				RB36#18	4.54	13	PASS
				RB36#39	5	13	PASS
				RB75#0	5.56	13	PASS
			MCH	RB1#0	3.38	13	PASS
				RB1#38	3	13	PASS
				RB1#74	3.6	13	PASS
				RB36#0	4.73	13	PASS
				RB36#18	4.5	13	PASS
				RB36#39	4.84	13	PASS
				RB75#0	5.46	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#38	3.23	13	PASS
				RB1#74	3.64	13	PASS
				RB36#0	4.95	13	PASS
				RB36#18	4.51	13	PASS
				RB36#39	4.88	13	PASS
				RB75#0	5.43	13	PASS
		20	LCH	RB1#0	3.96	13	PASS
				RB1#50	4.07	13	PASS
				RB1#99	4.6	13	PASS
				RB50#0	4.73	13	PASS
				RB50#25	4.68	13	PASS
				RB50#50	5.13	13	PASS
				RB100#0	5.52	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.32	13	PASS
				RB1#50	3.99	13	PASS
				RB1#99	4.5	13	PASS
				RB50#0	4.65	13	PASS
				RB50#25	4.4	13	PASS
				RB50#50	4.8	13	PASS
				RB100#0	5.42	13	PASS
			HCH	RB1#0	4.44	13	PASS
				RB1#50	4.06	13	PASS
				RB1#99	4.32	13	PASS
				RB50#0	5	13	PASS
				RB50#25	4.62	13	PASS
				RB50#50	4.74	13	PASS
				RB100#0	5.45	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.07	13	PASS
				RB1#13	3.91	13	PASS
				RB1#24	4.32	13	PASS
				RB12#0	5.09	13	PASS
				RB12#6	4.95	13	PASS
				RB12#13	5.24	13	PASS
				RB25#0	5.78	13	PASS
			MCH	RB1#0	4.22	13	PASS
				RB1#13	4.04	13	PASS
				RB1#24	4.32	13	PASS
				RB12#0	5.33	13	PASS
				RB12#6	5.18	13	PASS
				RB12#13	5.45	13	PASS
				RB25#0	5.88	13	PASS
			HCH	RB1#0	4.08	13	PASS
				RB1#13	4.09	13	PASS
				RB1#24	4.16	13	PASS
				RB12#0	5.51	13	PASS
				RB12#6	5.37	13	PASS
				RB12#13	5.58	13	PASS
				RB25#0	6	13	PASS
		10	LCH	RB1#0	3.85	13	PASS
				RB1#25	3.7	13	PASS
				RB1#49	4.3	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.41	13	PASS
				RB25#13	5.34	13	PASS
				RB25#25	5.82	13	PASS
				RB50#0	6.02	13	PASS
			MCH	RB1#0	4.09	13	PASS
				RB1#25	3.84	13	PASS
				RB1#49	4.29	13	PASS
				RB25#0	5.52	13	PASS
				RB25#13	5.36	13	PASS
				RB25#25	5.64	13	PASS
				RB50#0	6.03	13	PASS
			HCH	RB1#0	4.33	13	PASS
				RB1#25	4.22	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	5.56	13	PASS
				RB25#13	5.58	13	PASS
				RB25#25	5.62	13	PASS
				RB50#0	6.2	13	PASS
		15	LCH	RB1#0	4.36	13	PASS
				RB1#38	4.12	13	PASS
				RB1#74	4.81	13	PASS
				RB36#0	5.53	13	PASS
				RB36#18	5.47	13	PASS
				RB36#39	5.93	13	PASS
				RB75#0	6.49	13	PASS
			MCH	RB1#0	4.53	13	PASS
				RB1#38	3.81	13	PASS
				RB1#74	4.44	13	PASS
				RB36#0	5.6	13	PASS
				RB36#18	5.45	13	PASS
				RB36#39	5.73	13	PASS
				RB75#0	6.32	13	PASS
			HCH	RB1#0	4.88	13	PASS
				RB1#38	4.22	13	PASS
				RB1#74	4.74	13	PASS
				RB36#0	5.83	13	PASS
				RB36#18	5.44	13	PASS
				RB36#39	5.85	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB75#0	6.27	13	PASS
		20	LCH	RB1#0	4.46	13	PASS
				RB1#50	4.08	13	PASS
				RB1#99	4.76	13	PASS
				RB50#0	5.59	13	PASS
				RB50#25	5.64	13	PASS
				RB50#50	6.02	13	PASS
				RB100#0	6.4	13	PASS
			MCH	RB1#0	4.55	13	PASS
				RB1#50	4.11	13	PASS
				RB1#99	4.77	13	PASS
				RB50#0	5.55	13	PASS
				RB50#25	5.4	13	PASS
				RB50#50	5.71	13	PASS
				RB100#0	6.2	13	PASS
			HCH	RB1#0	4.75	13	PASS
				RB1#50	4.34	13	PASS
				RB1#99	4.63	13	PASS
				RB50#0	5.88	13	PASS
				RB50#25	5.5	13	PASS
				RB50#50	5.65	13	PASS
				RB100#0	6.33	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

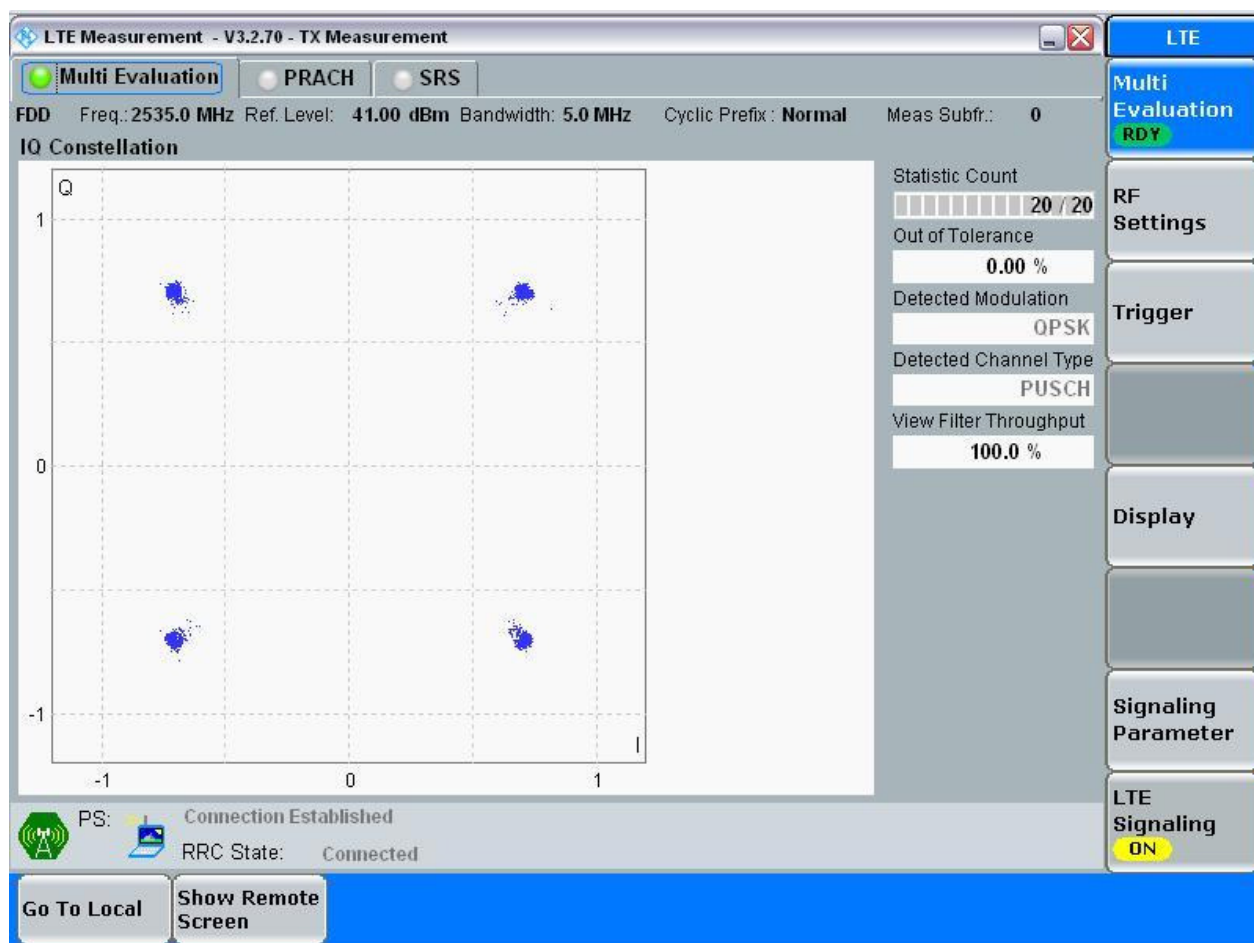
3.1.1 Test Band = BAND7

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

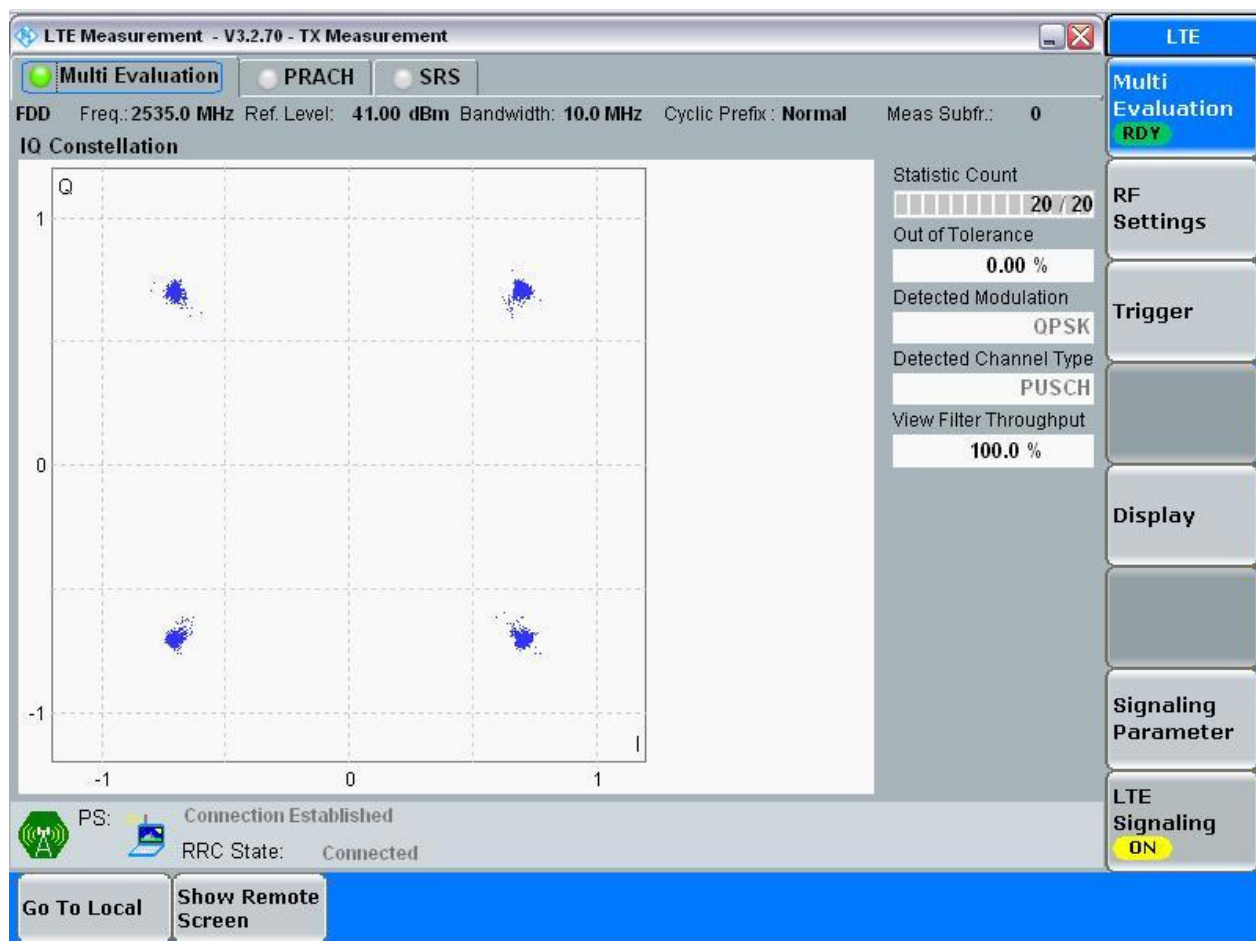
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

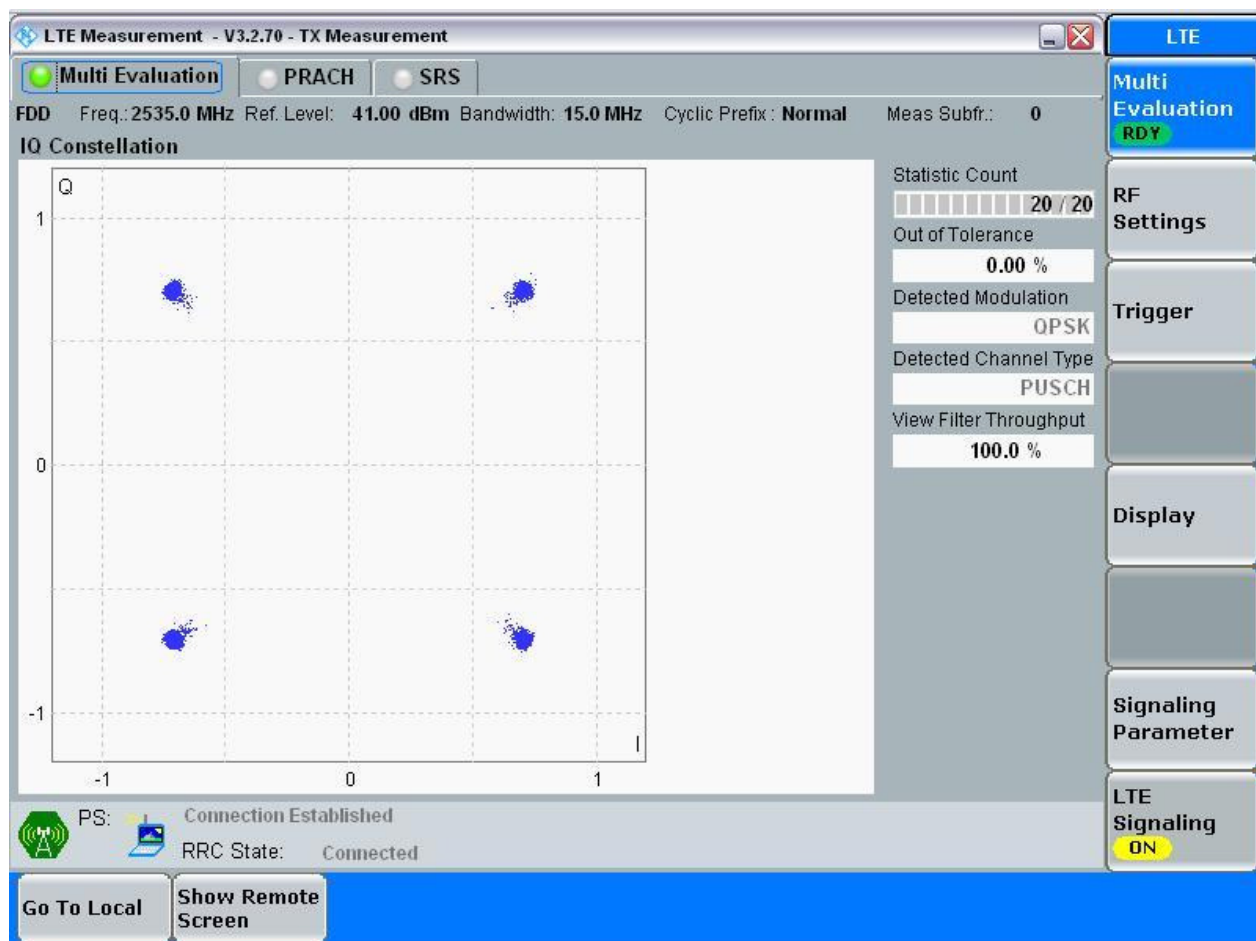
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

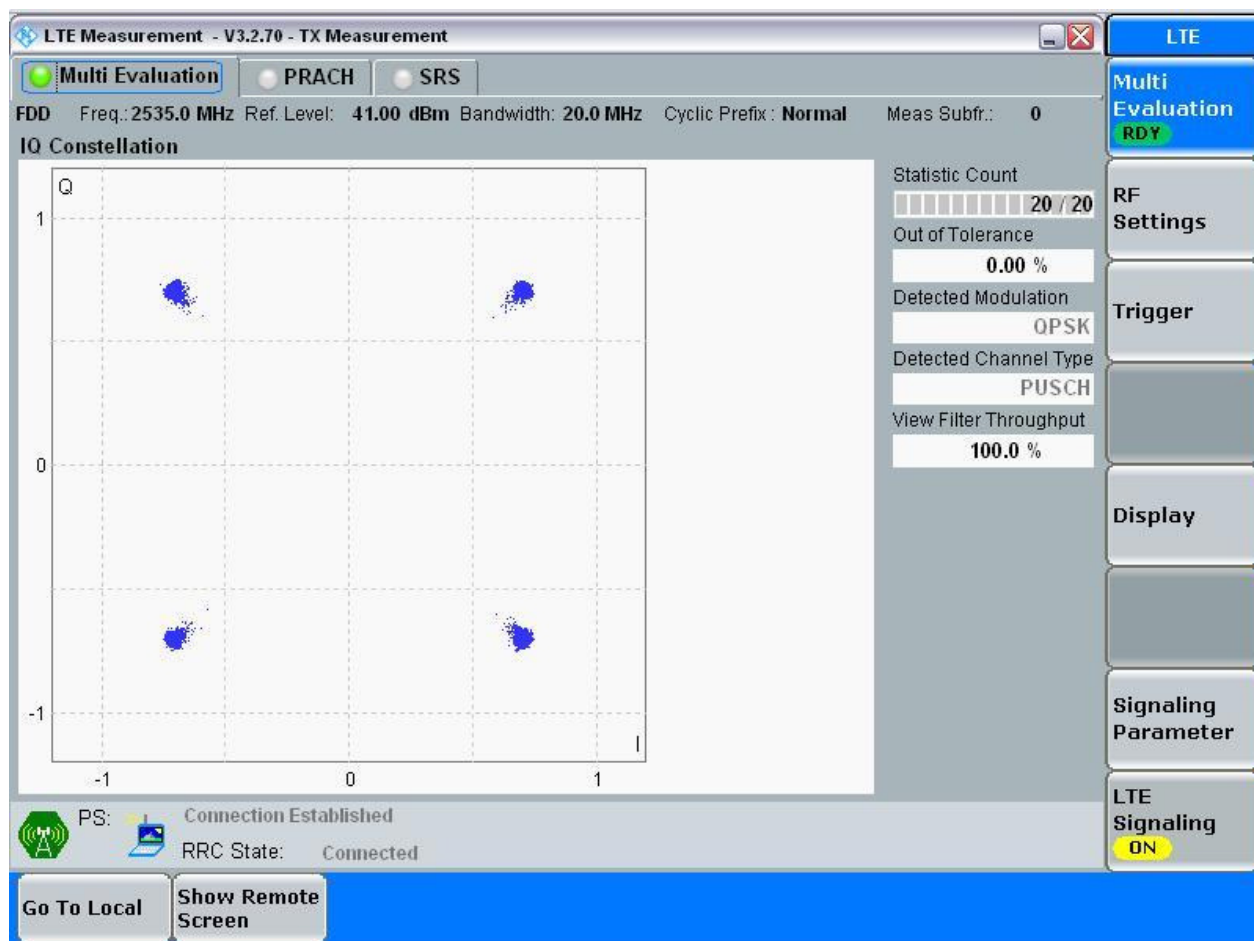
3.1.1.1.3.1.1 Test RB = RB75#0



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

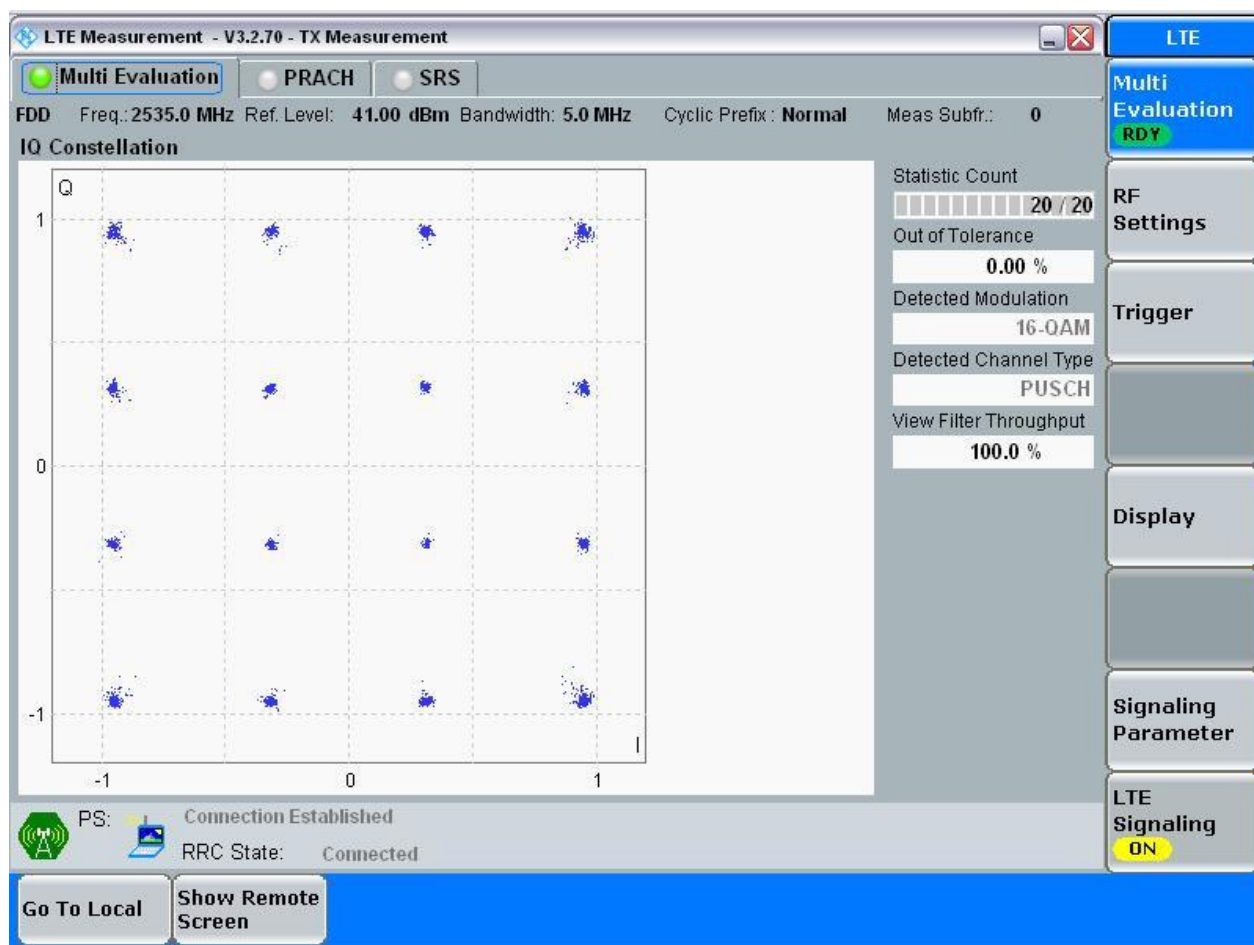


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

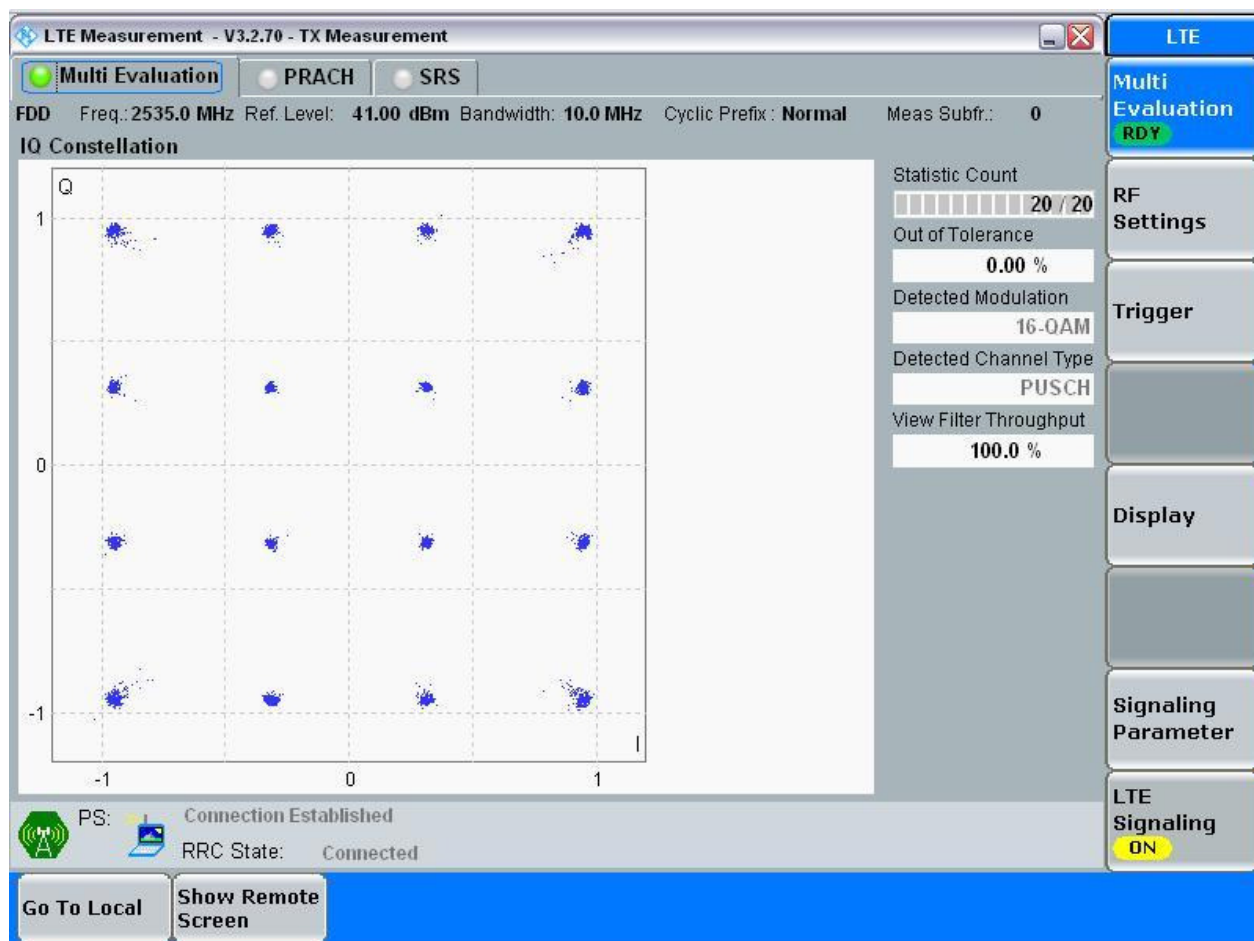
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

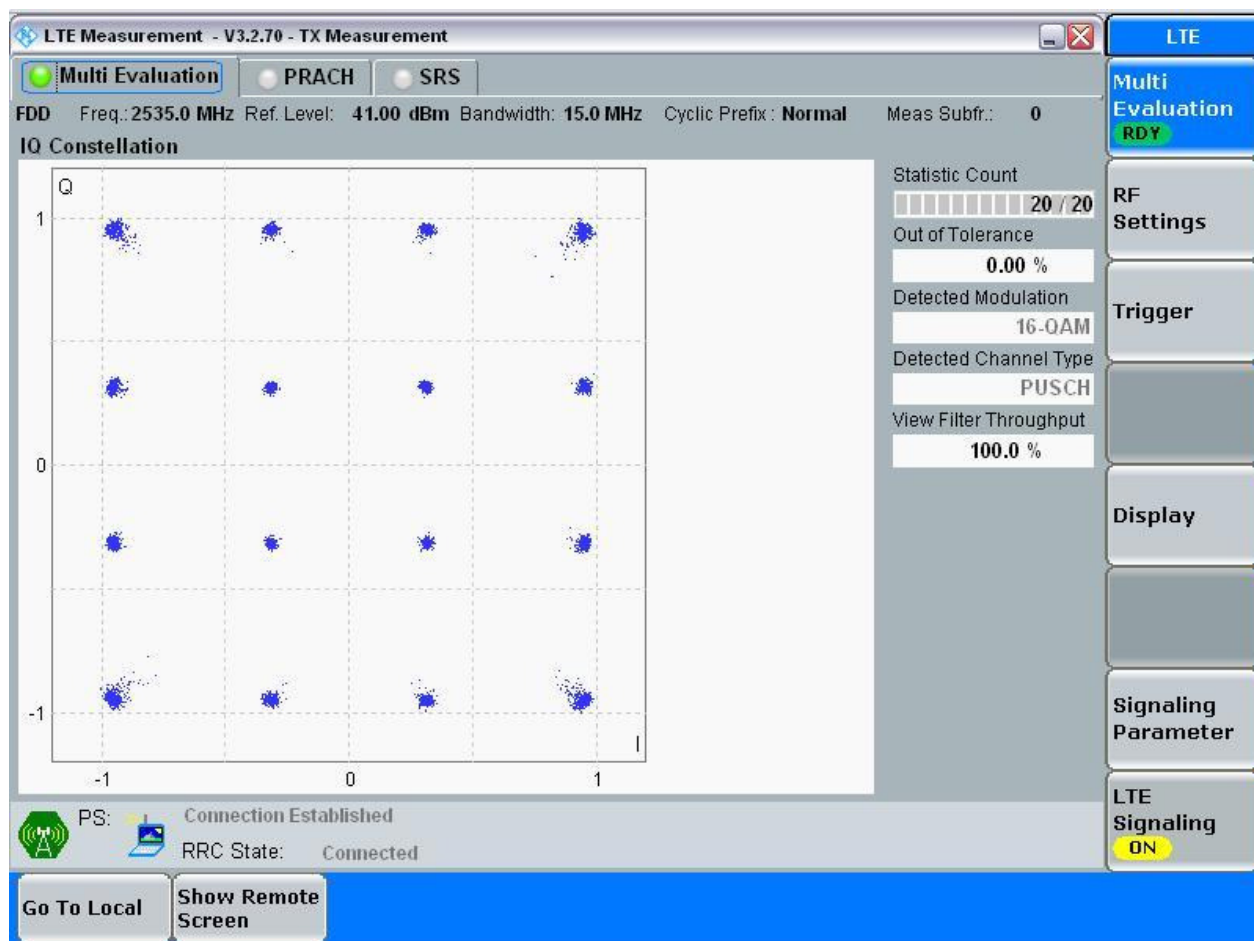
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

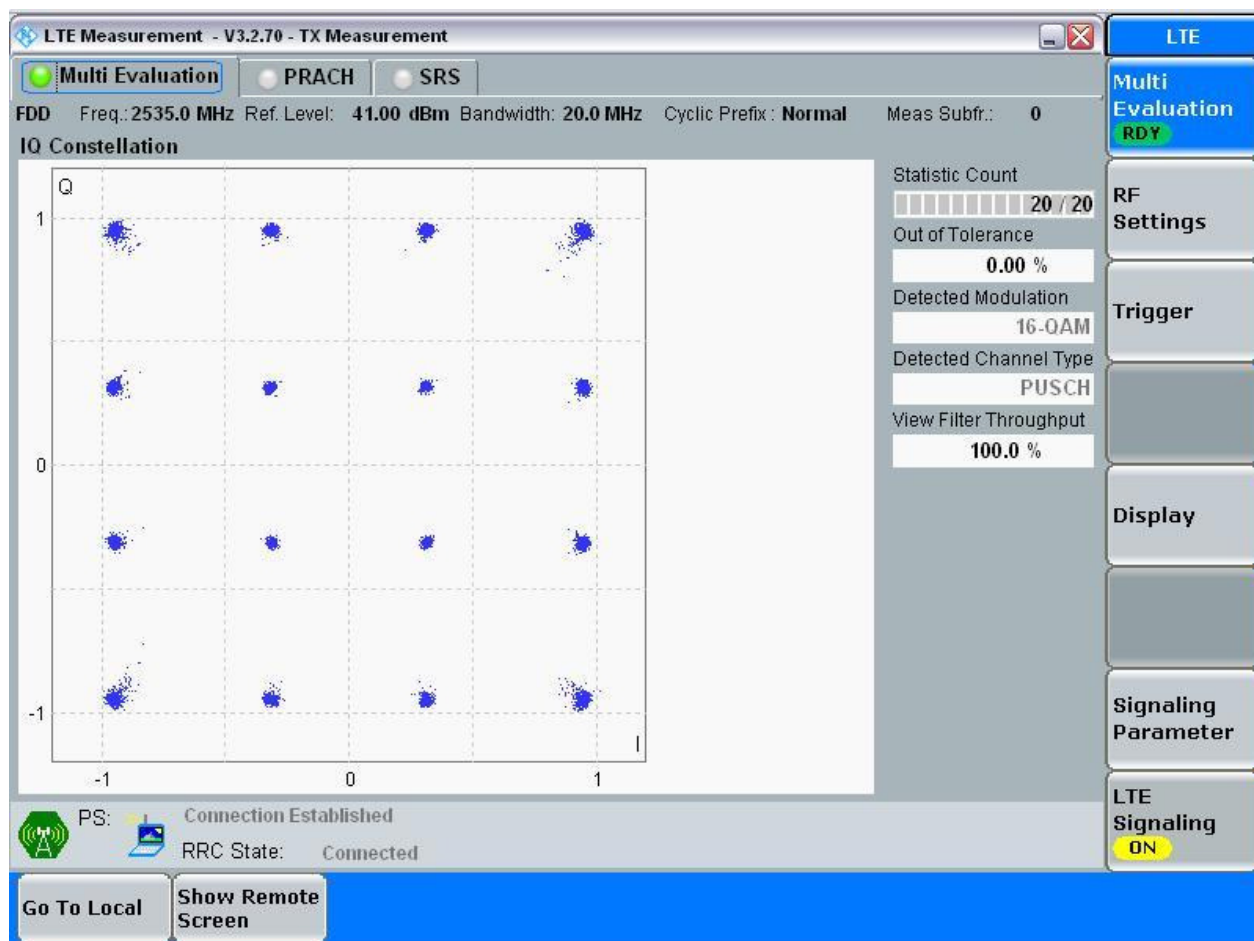
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.97	Pass
			MCH	RB25#0	4.51	4.95	Pass
			HCH	RB25#0	4.51	4.97	Pass
		10	LCH	RB50#0	9.01	9.90	Pass
			MCH	RB50#0	9.00	9.93	Pass
			HCH	RB50#0	8.99	9.89	Pass
		15	LCH	RB75#0	13.49	15.03	Pass
			MCH	RB75#0	13.48	15.02	Pass
			HCH	RB75#0	13.48	15.03	Pass
		20	LCH	RB100#0	18.01	19.85	Pass
			MCH	RB100#0	17.98	19.73	Pass
			HCH	RB100#0	17.97	19.79	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	5.00	Pass
			MCH	RB25#0	4.52	4.98	Pass
			HCH	RB25#0	4.52	4.98	Pass
		10	LCH	RB50#0	9.01	9.93	Pass
			MCH	RB50#0	9.01	9.91	Pass
			HCH	RB50#0	9.00	9.90	Pass
		15	LCH	RB75#0	13.54	15.00	Pass
			MCH	RB75#0	13.52	15.09	Pass
			HCH	RB75#0	13.50	14.96	Pass
		20	LCH	RB100#0	18.02	19.83	Pass
			MCH	RB100#0	18.05	19.84	Pass
			HCH	RB100#0	18.01	19.91	Pass



Part II - Test Plots

4.1 For LTE

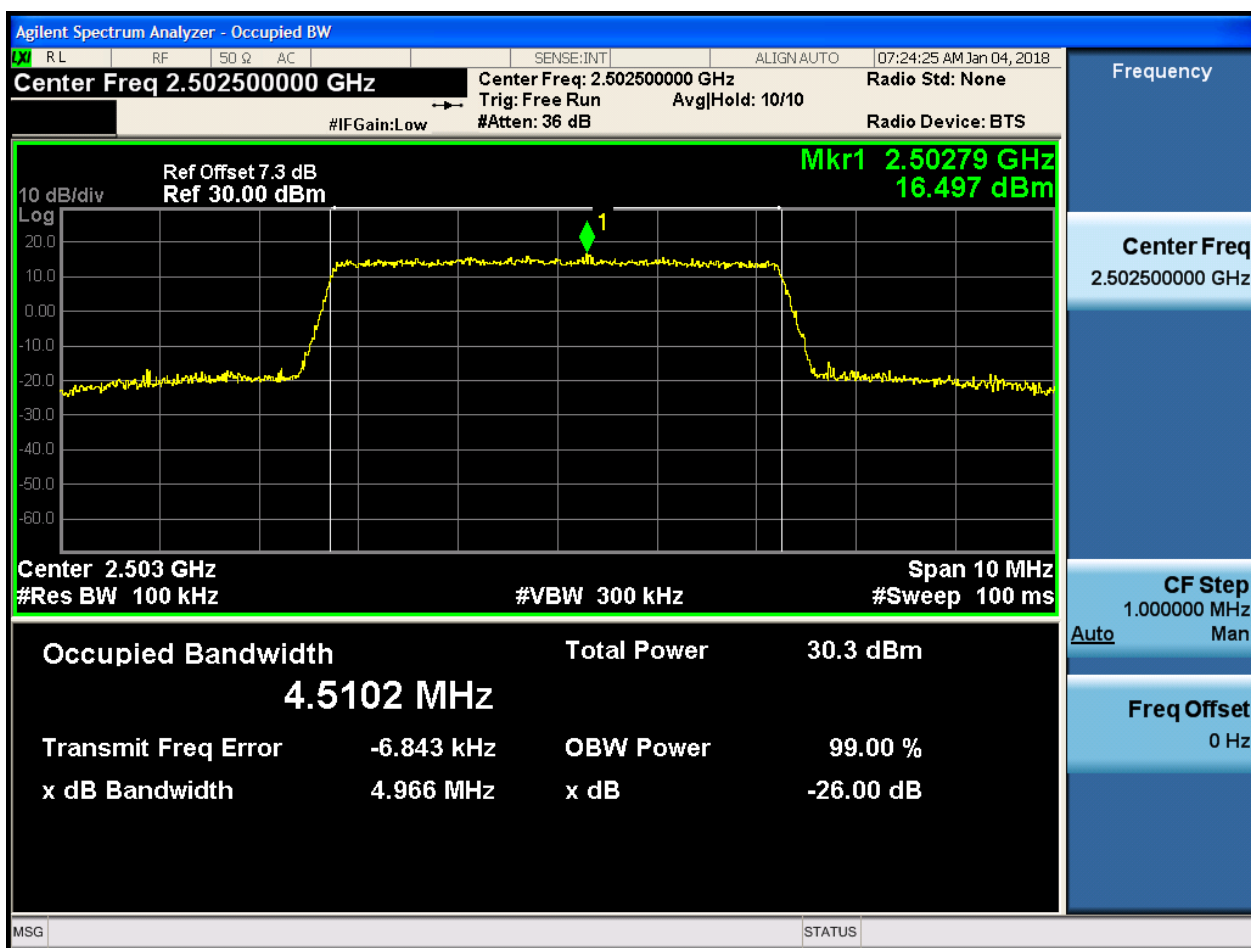
4.1.1 Test Band = BAND7

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

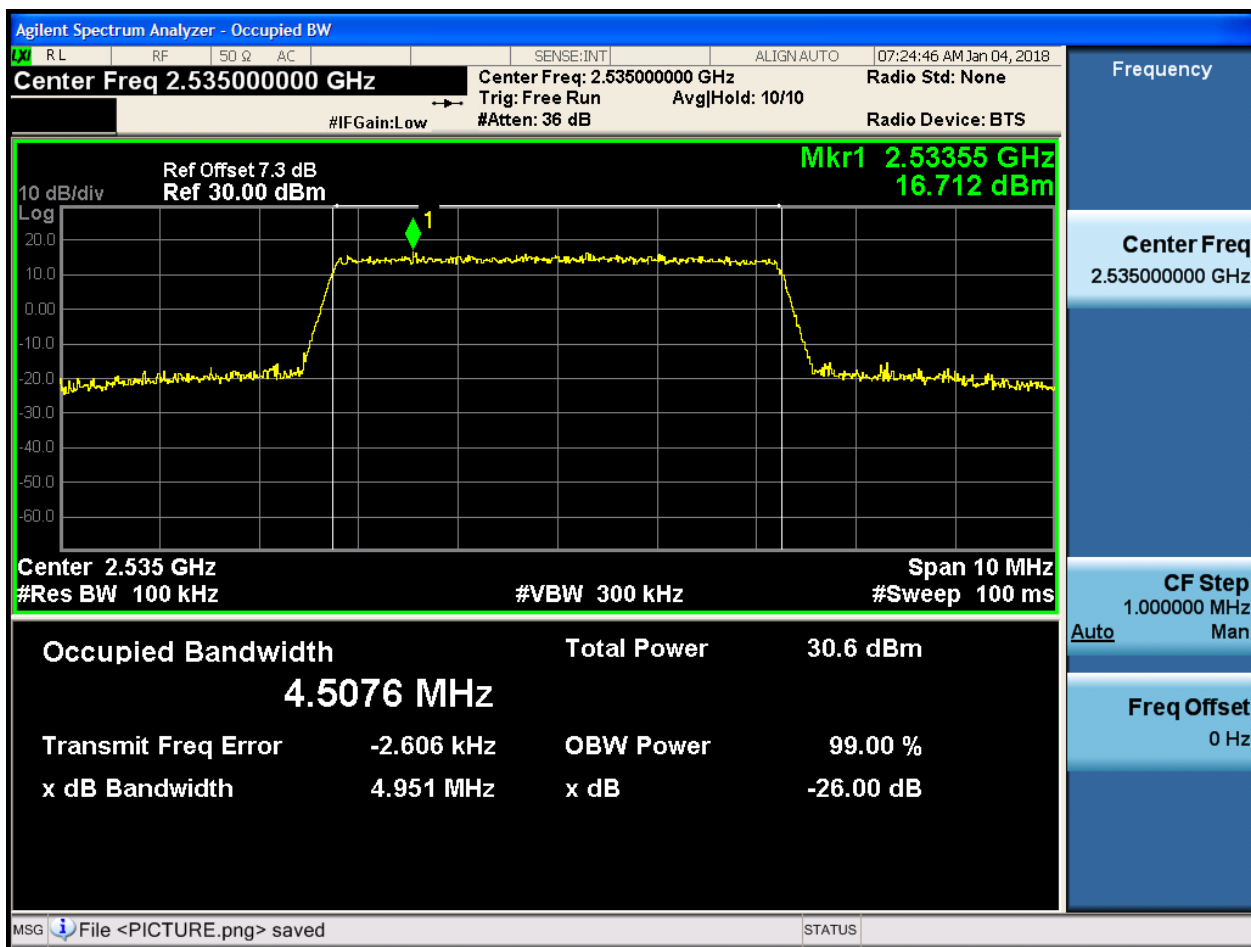
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

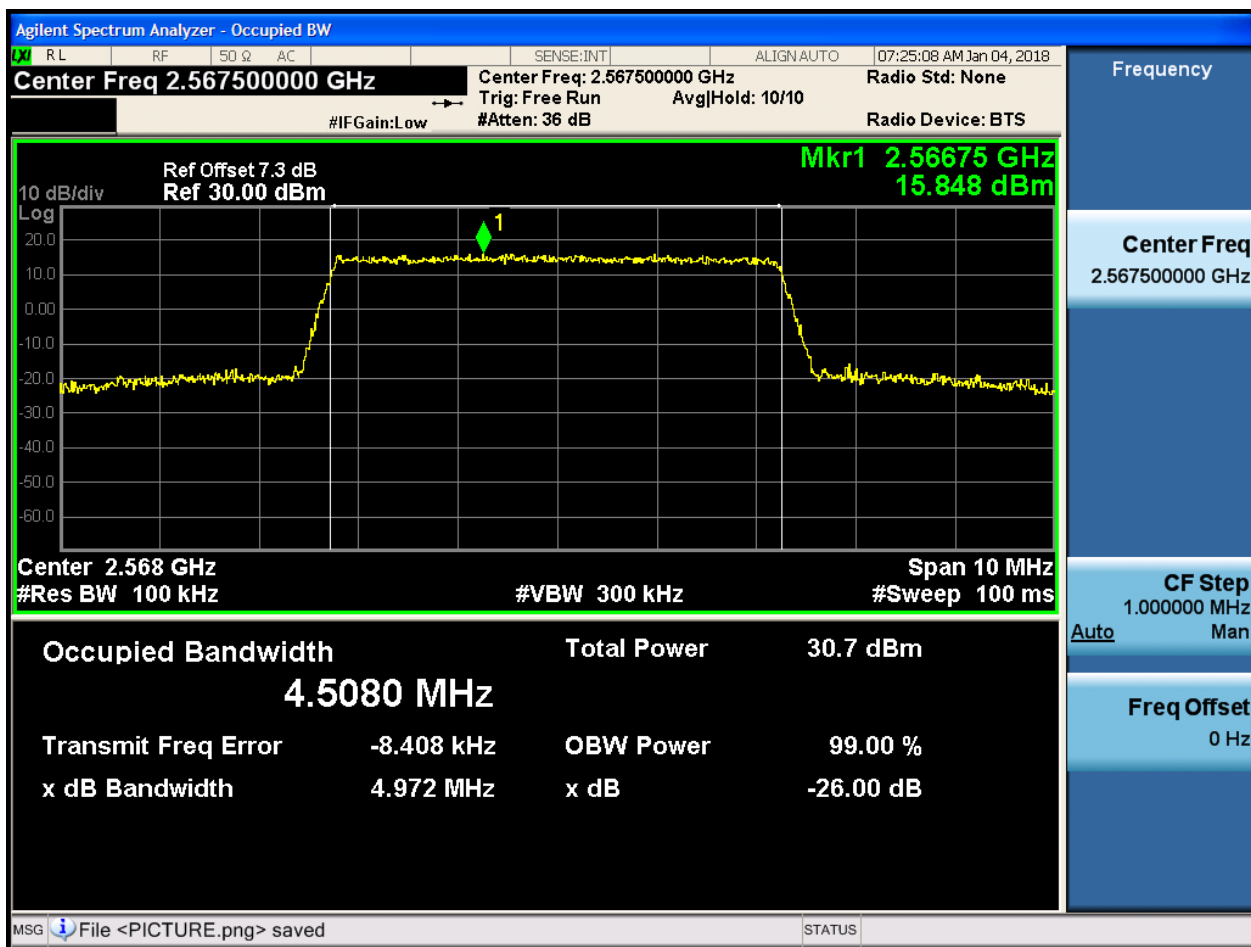
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

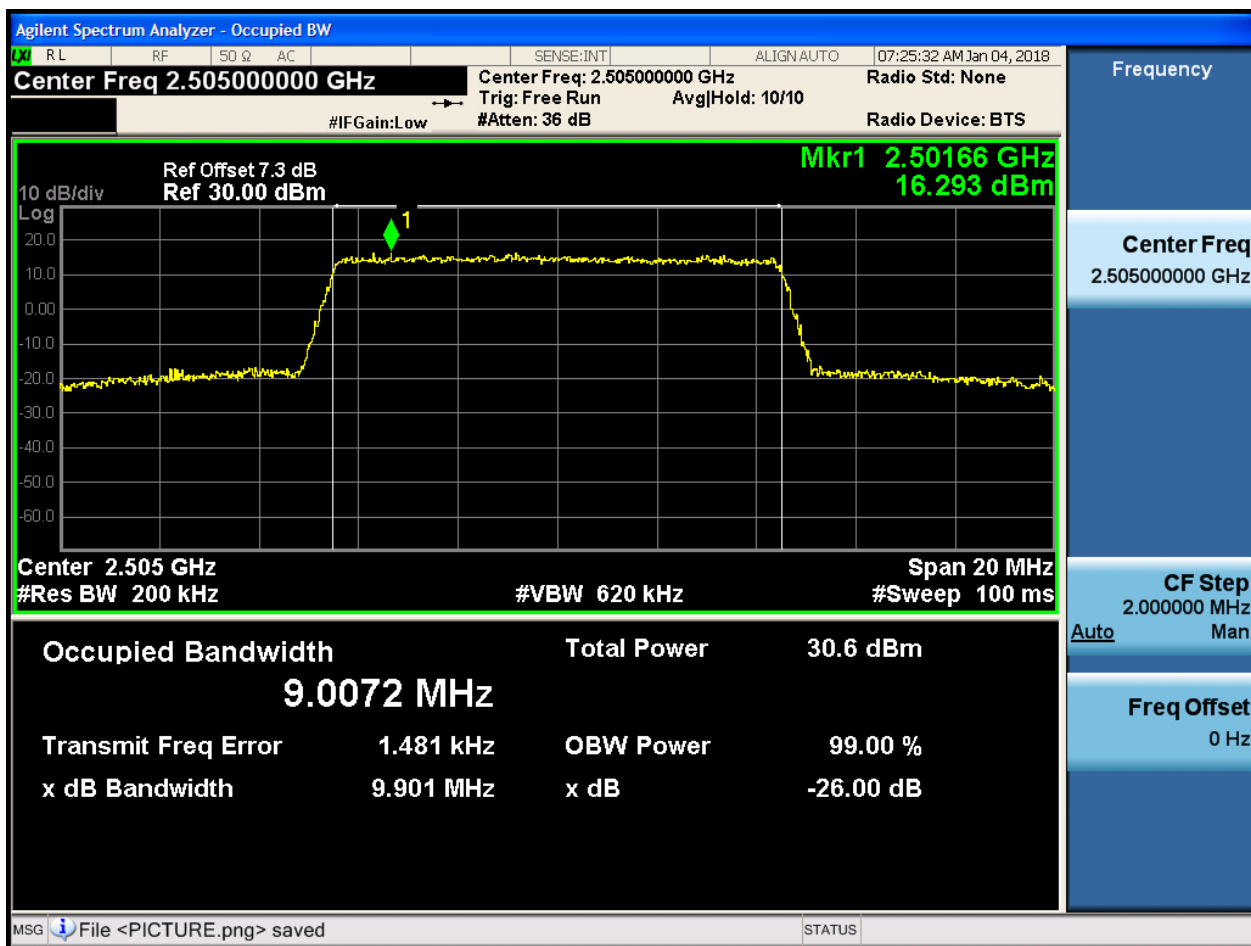




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

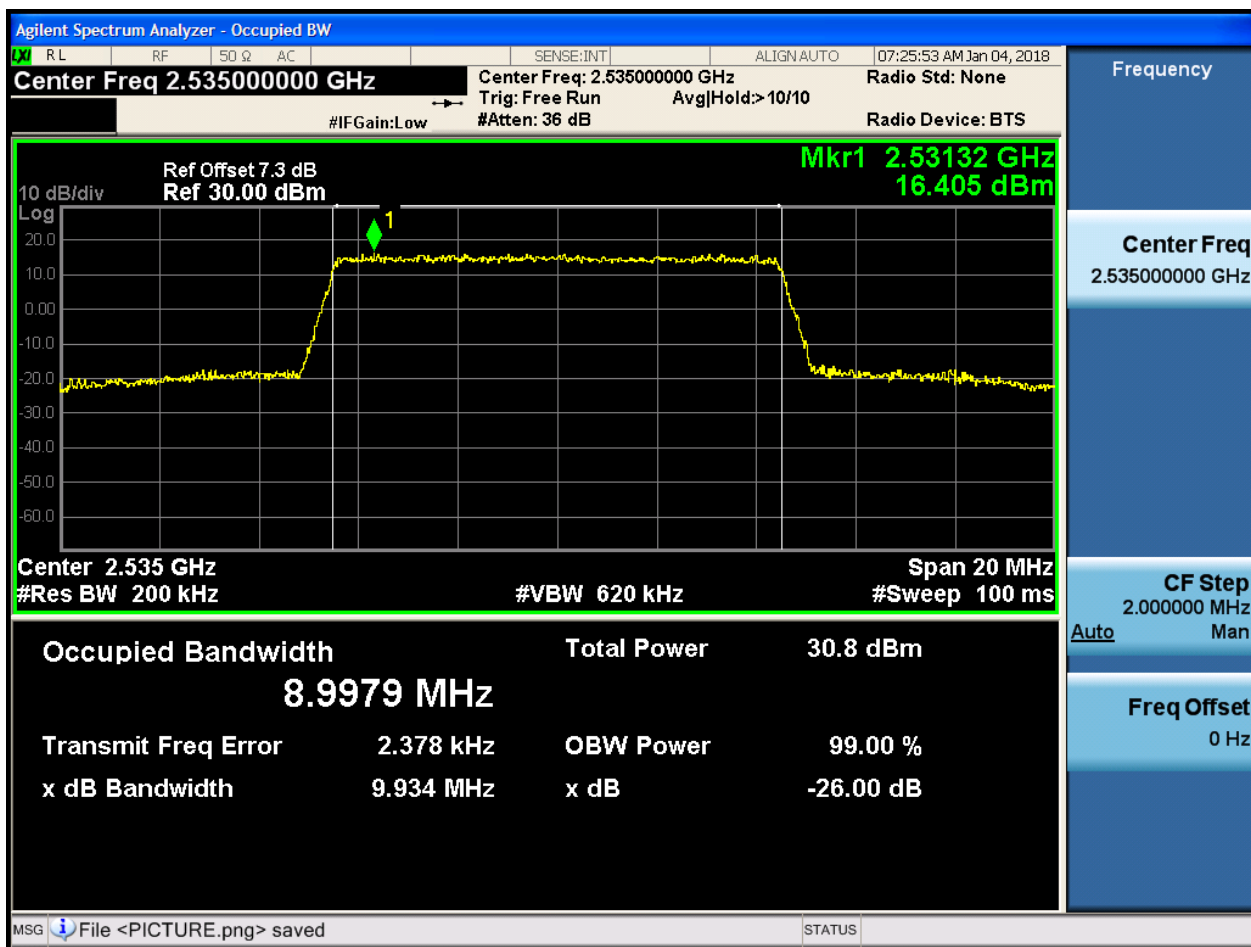
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

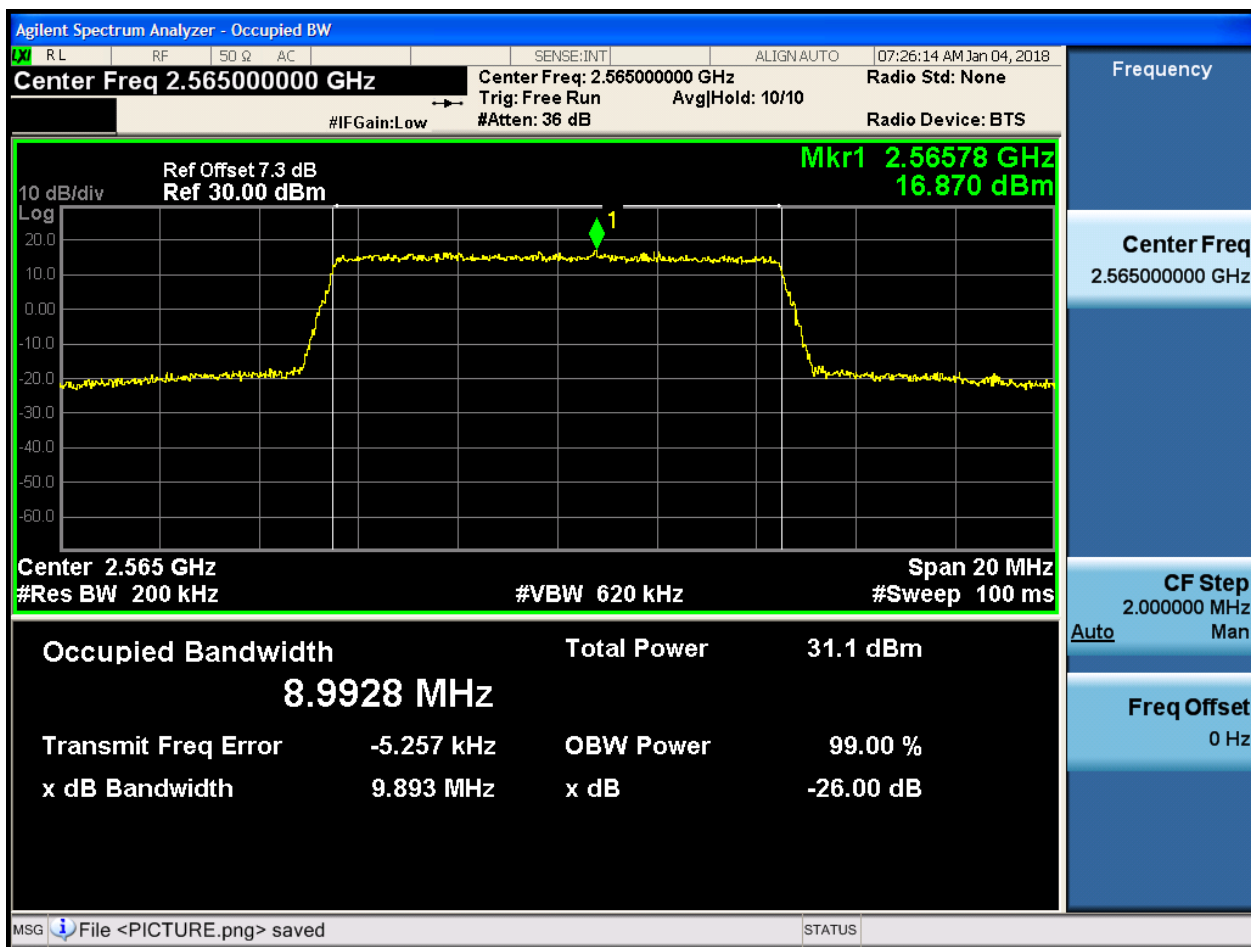
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

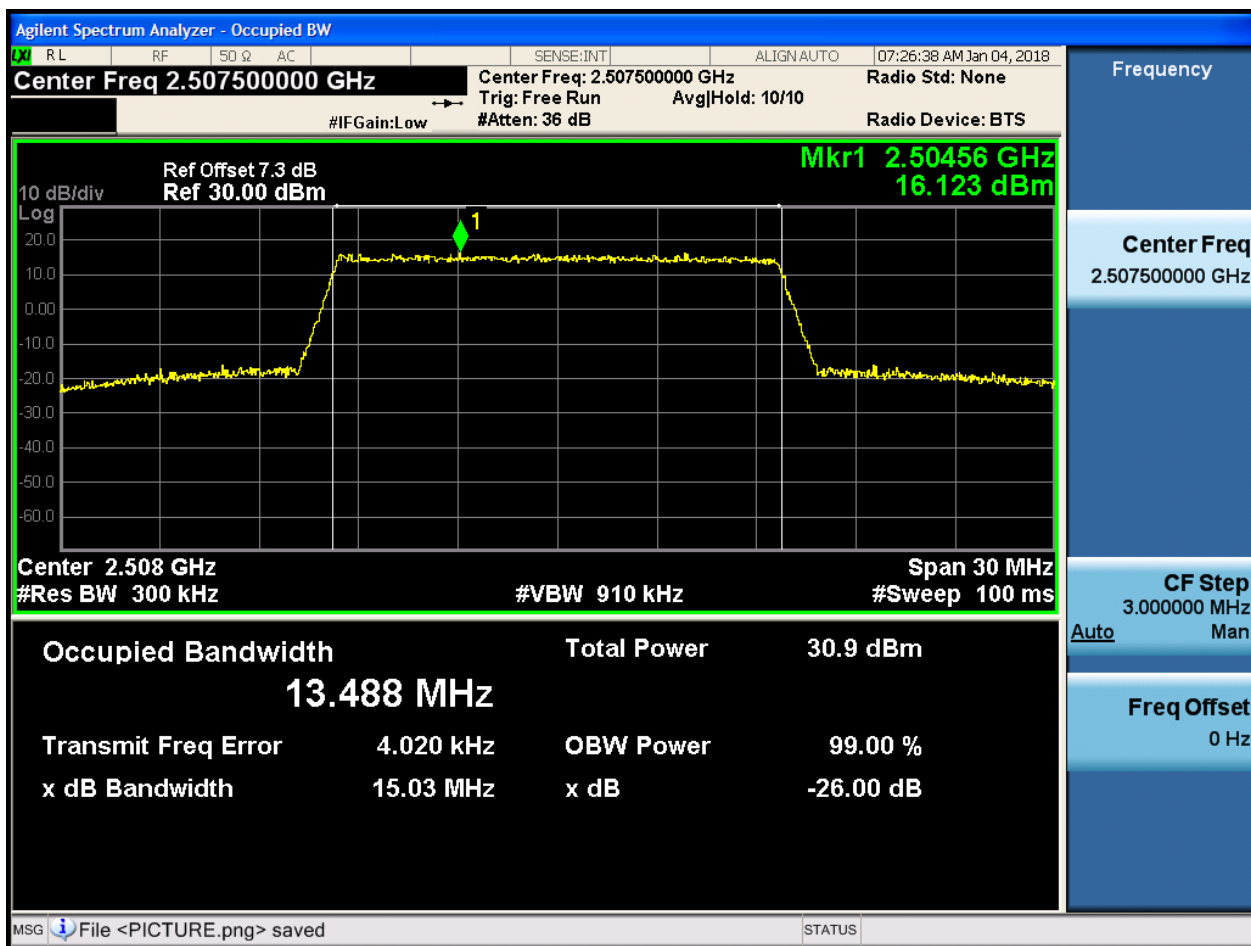




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

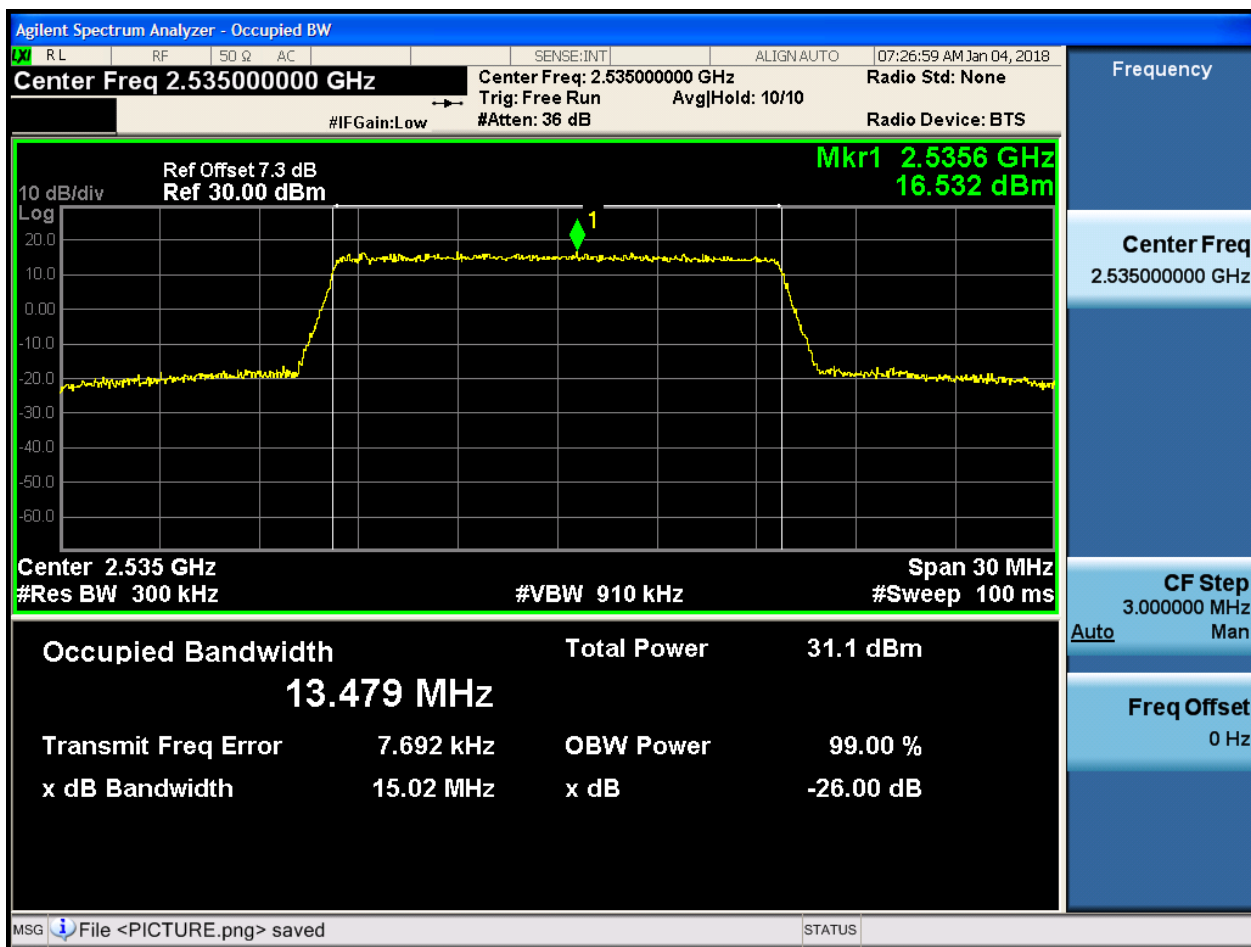
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

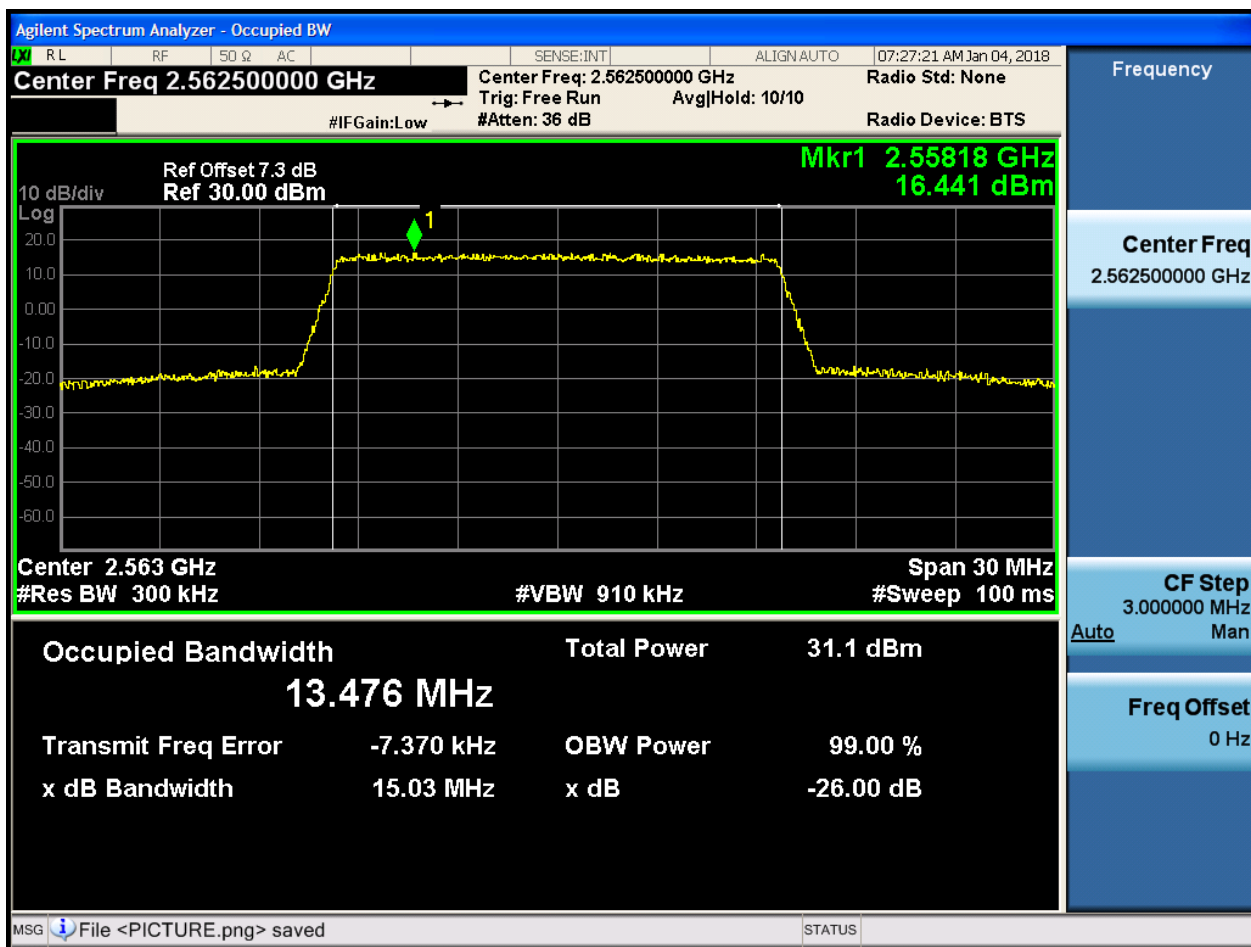
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

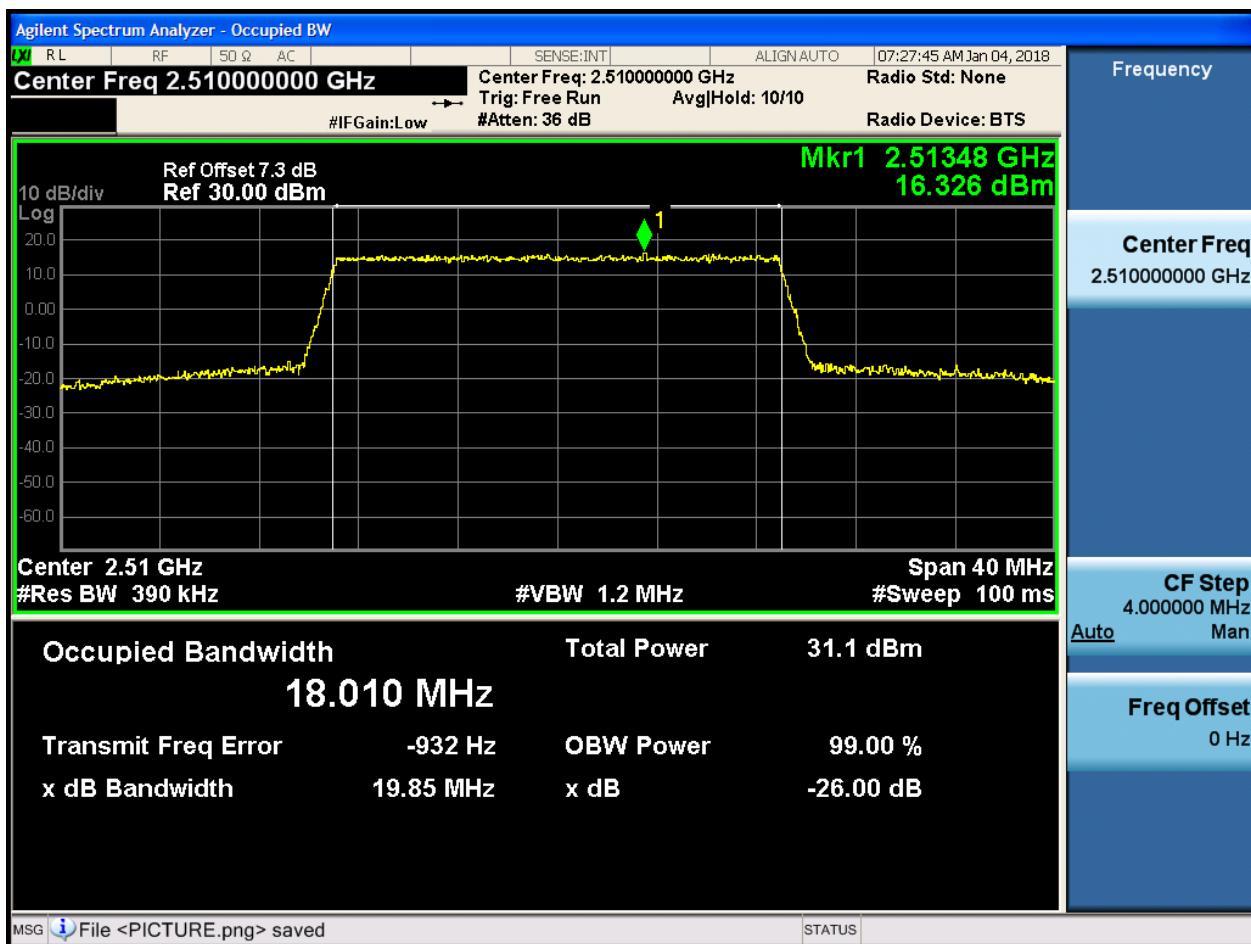




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

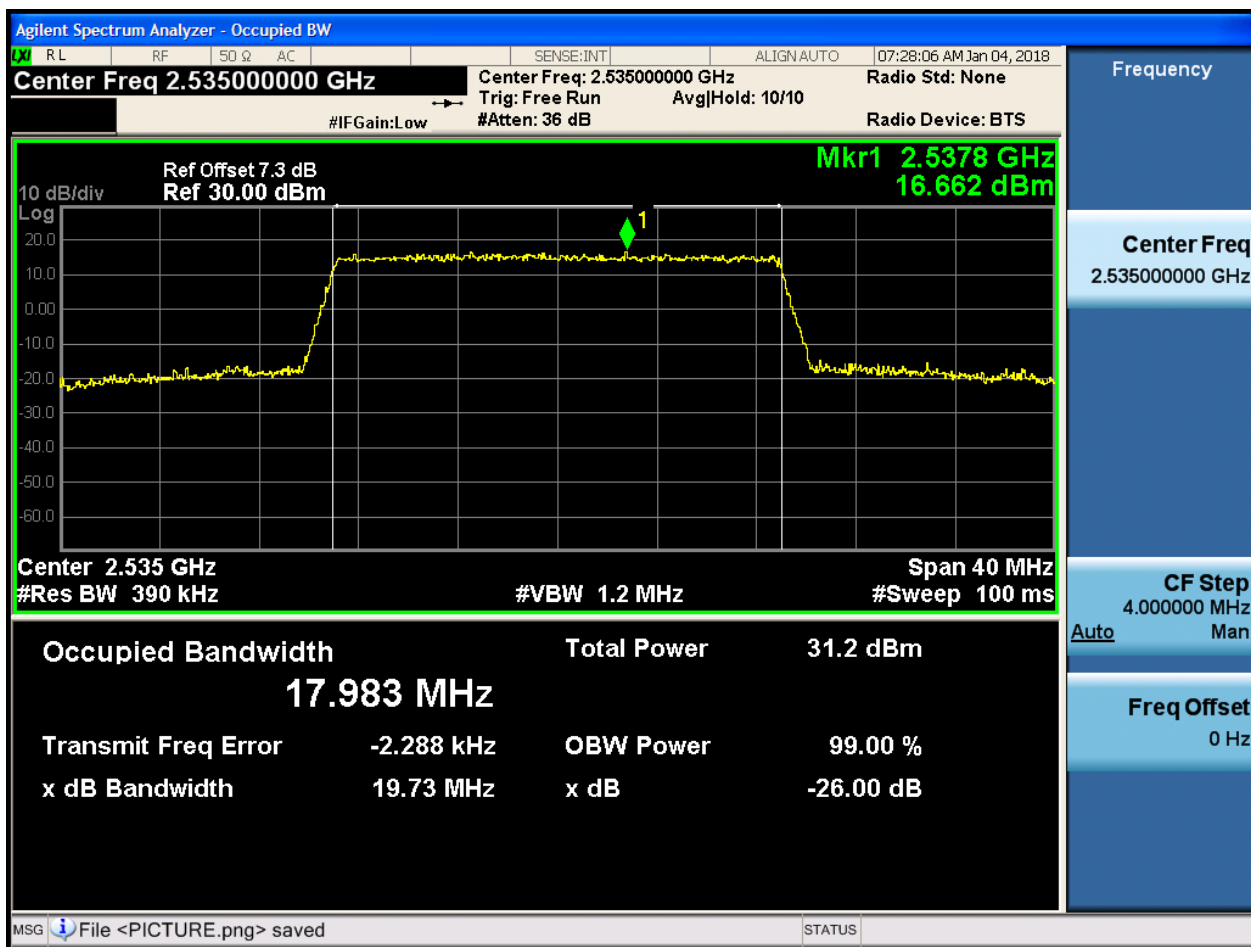
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

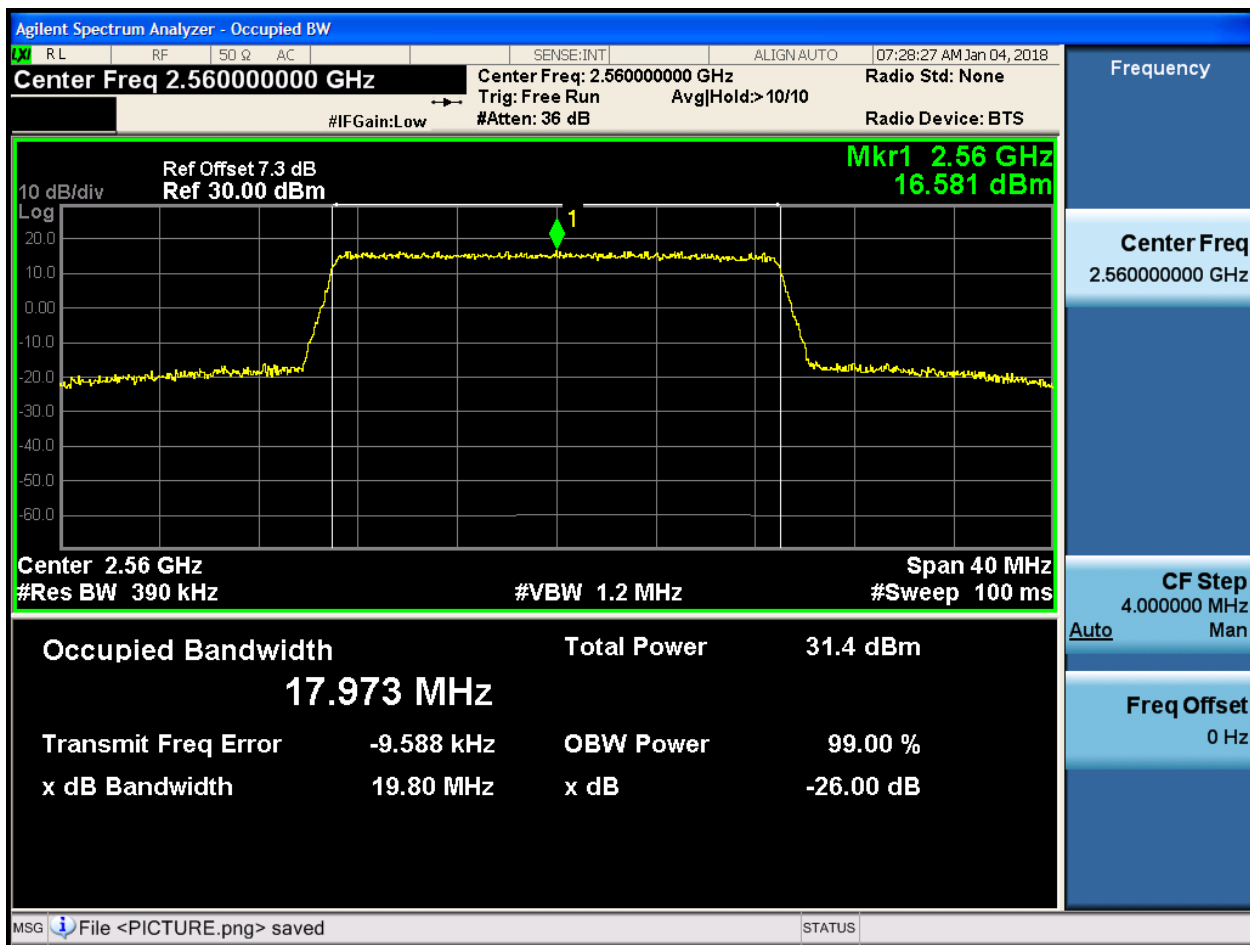
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



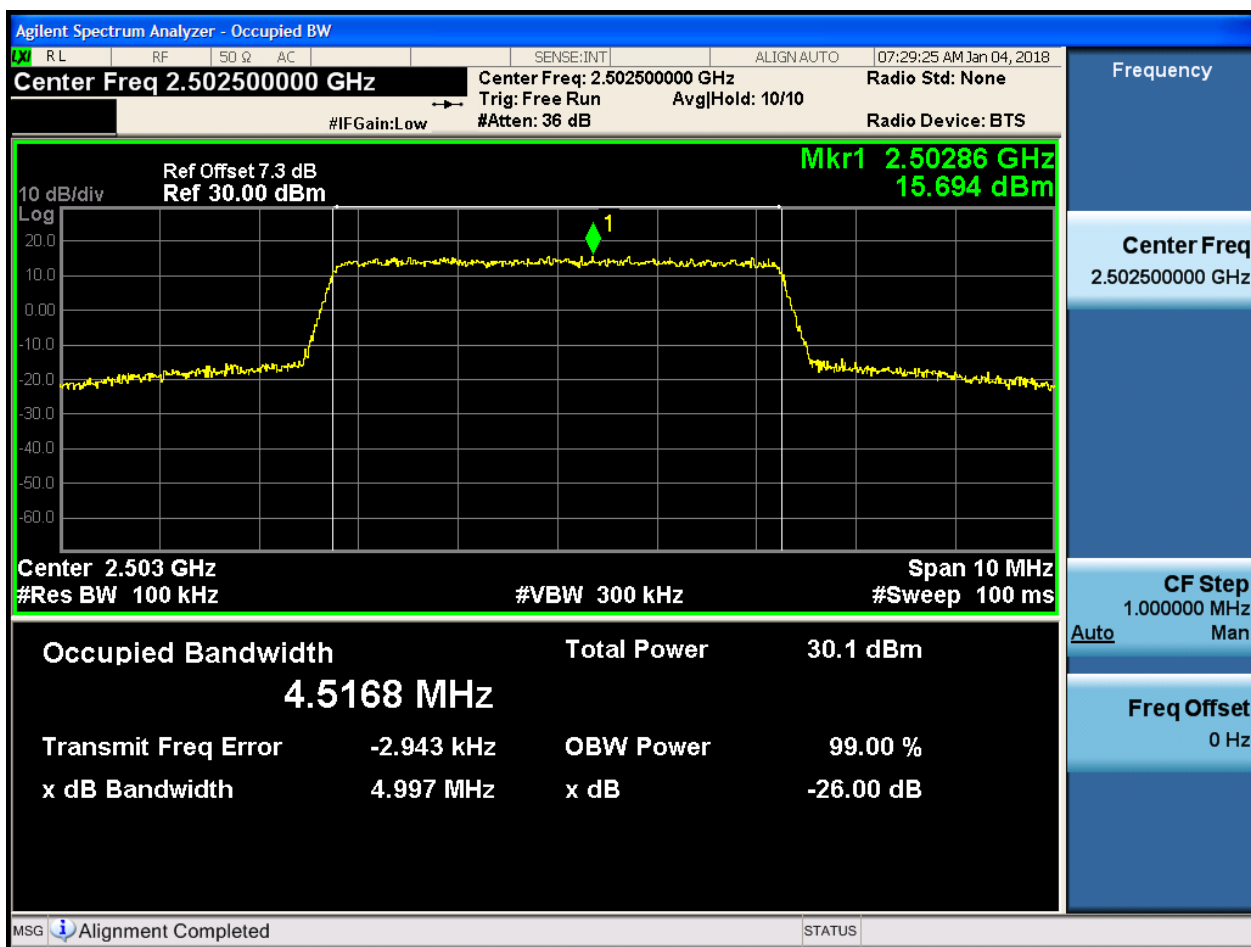


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

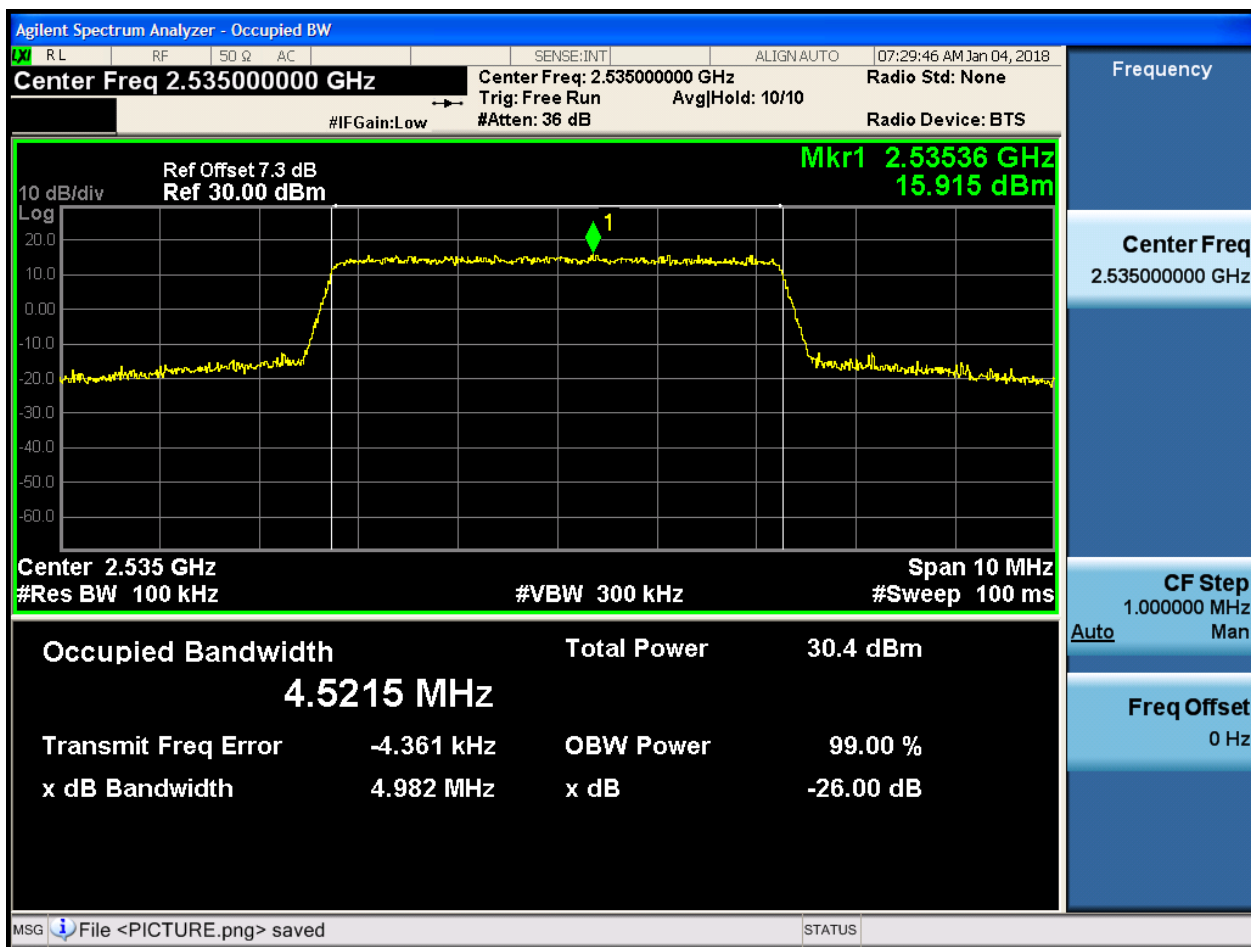
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

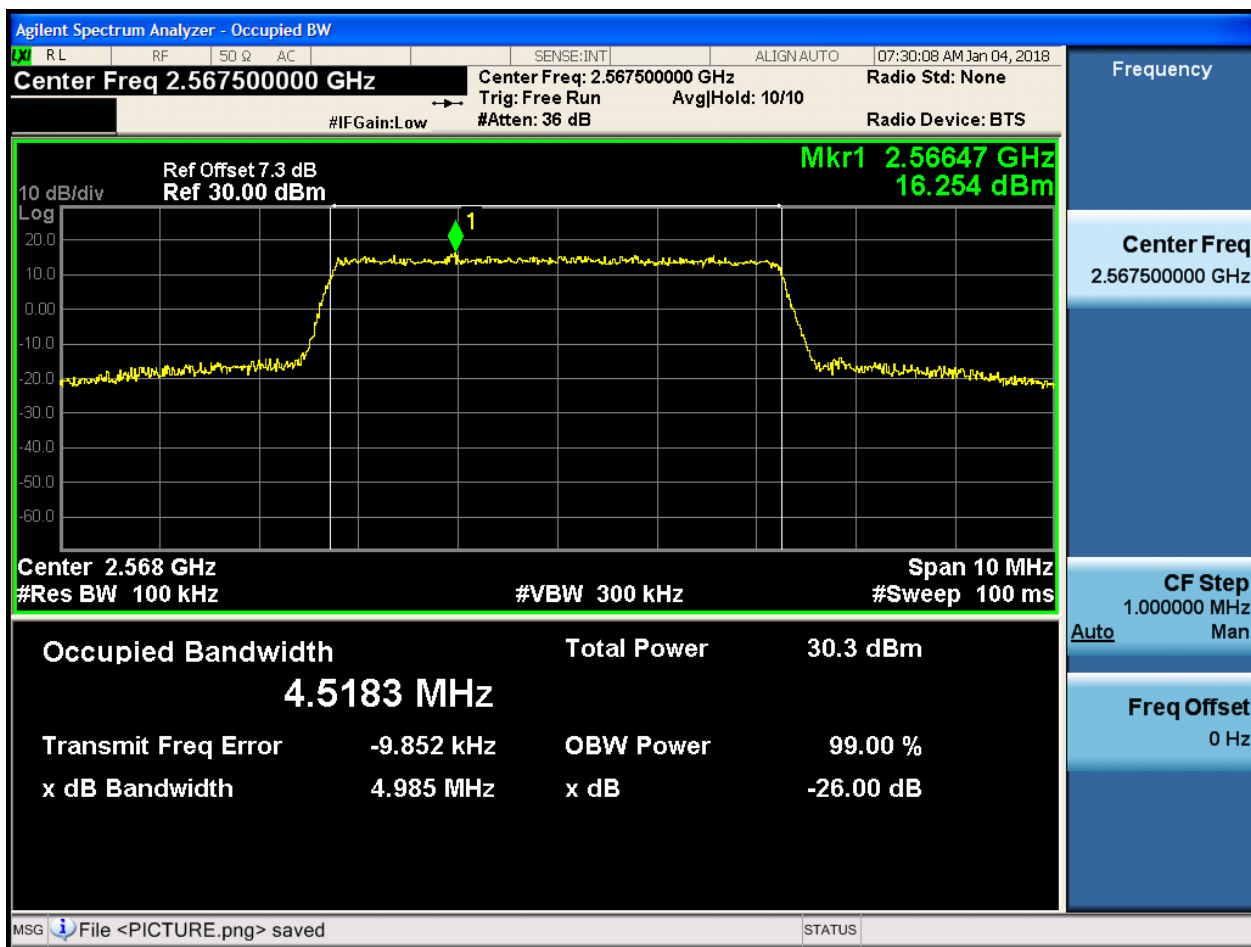
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

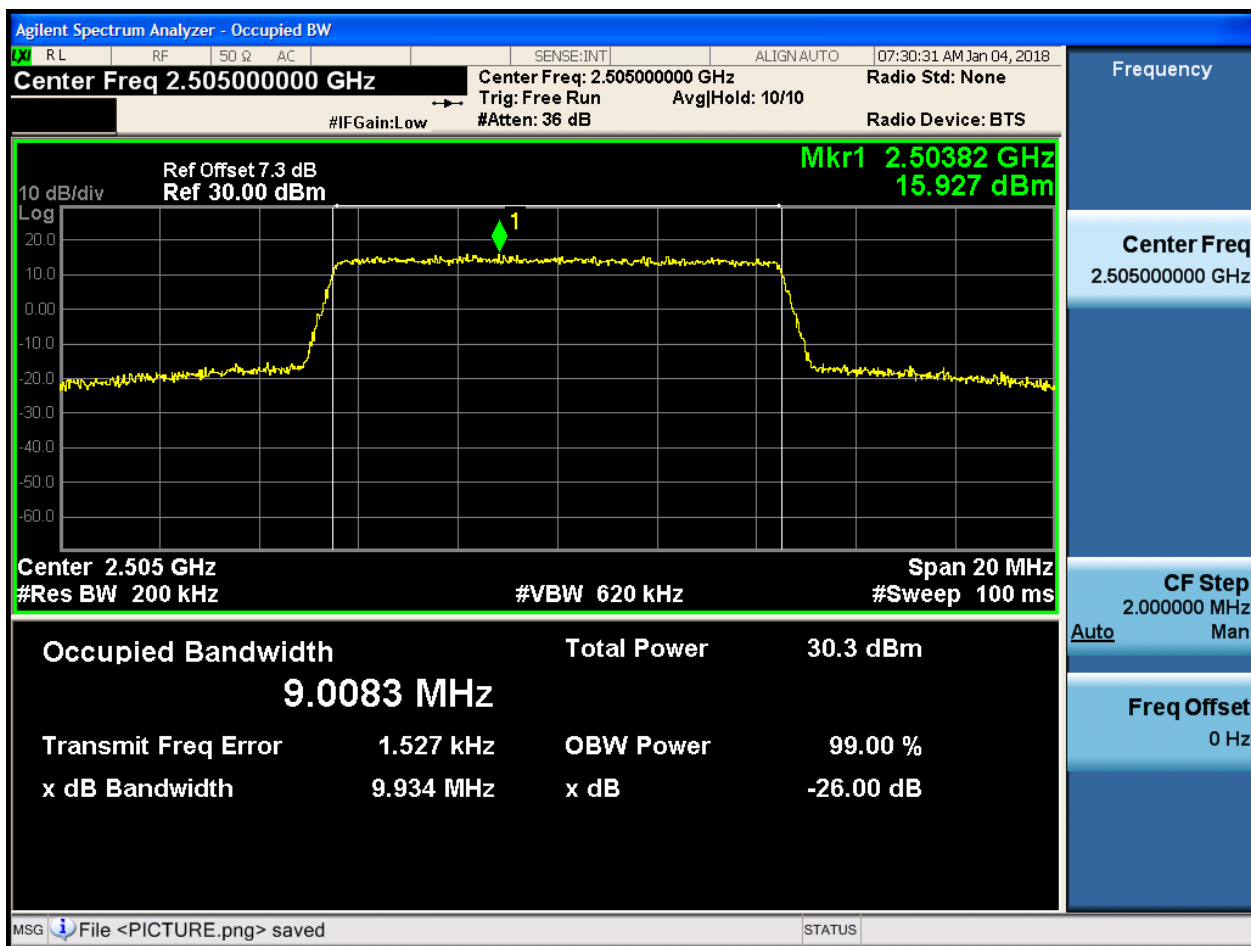




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

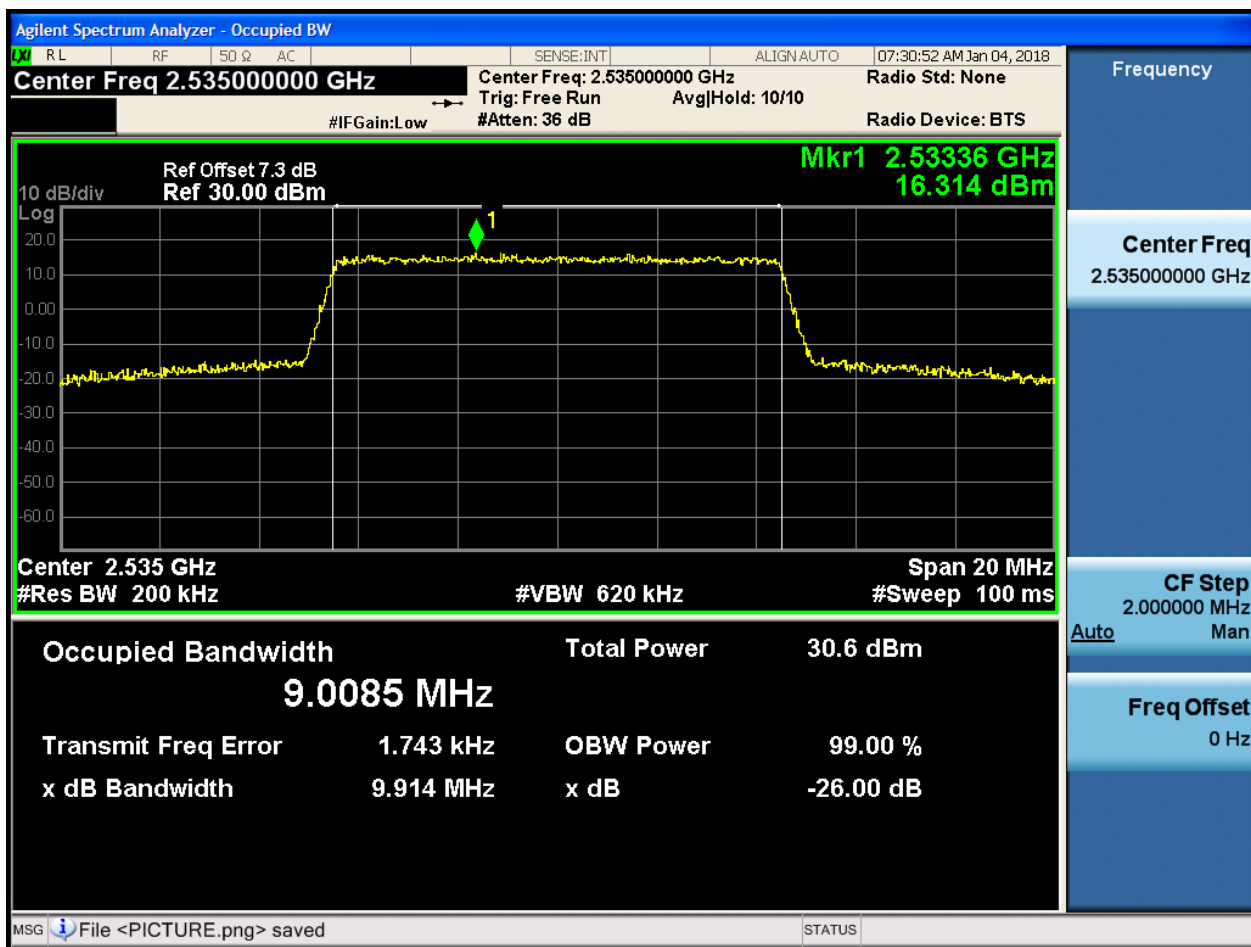
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

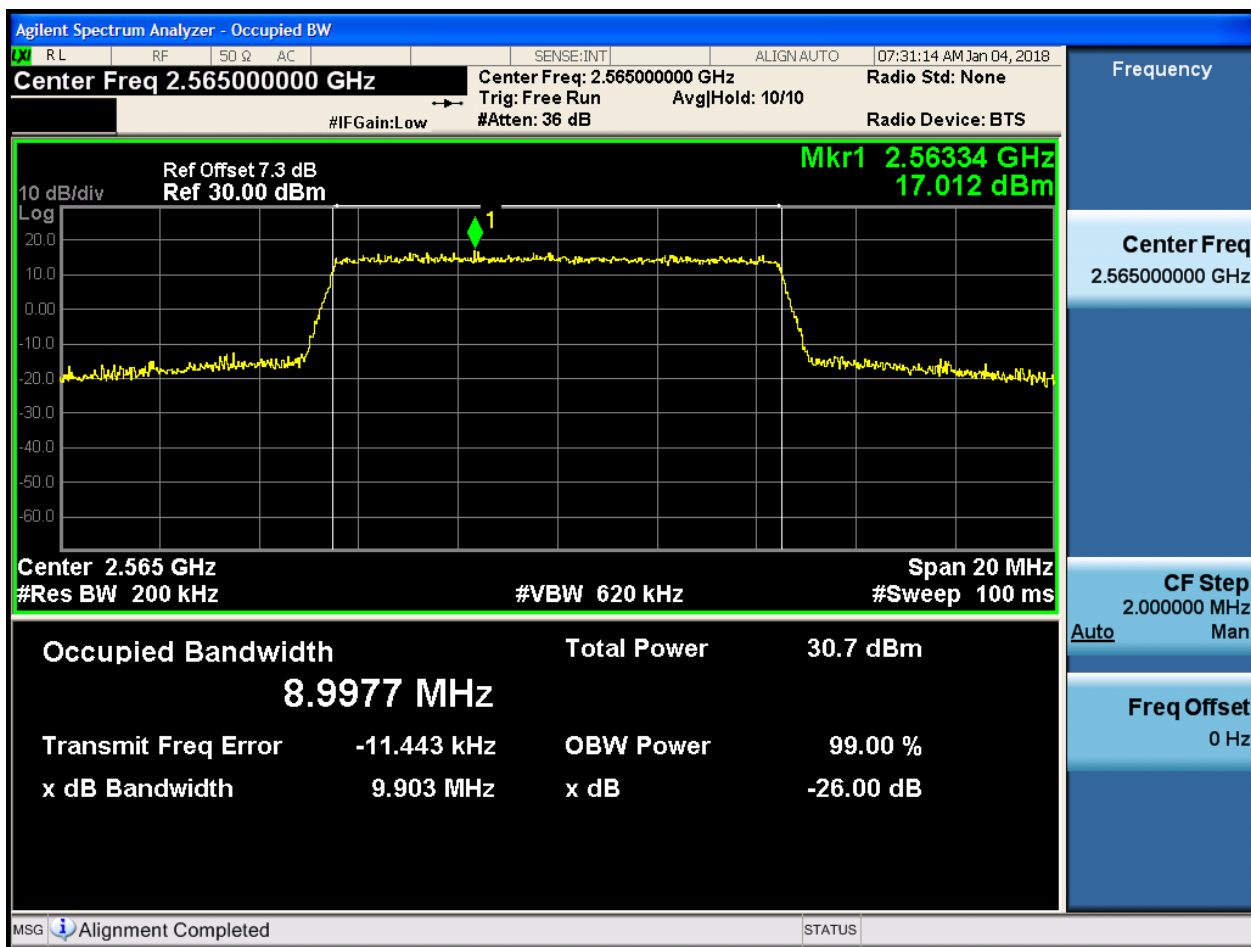
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

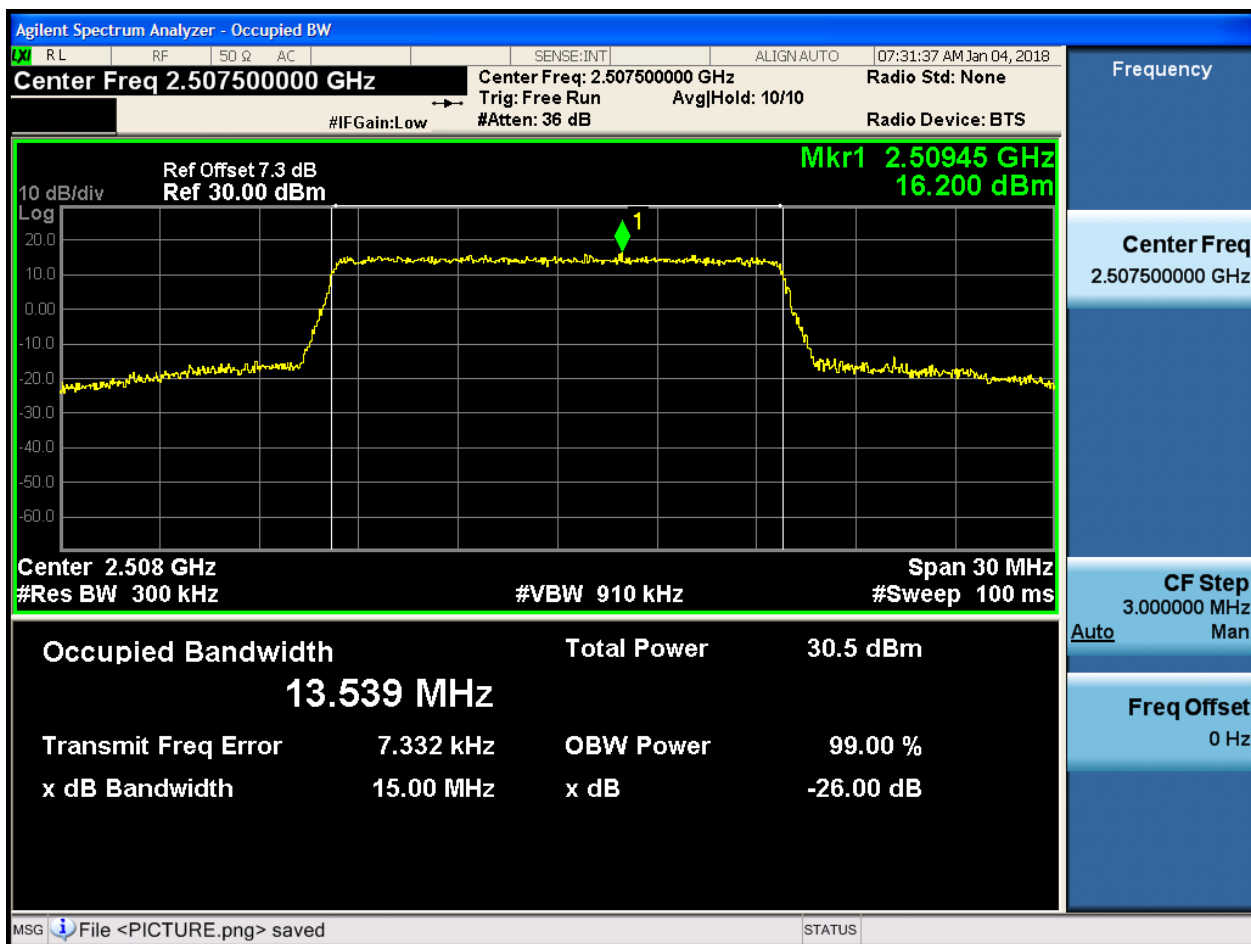




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

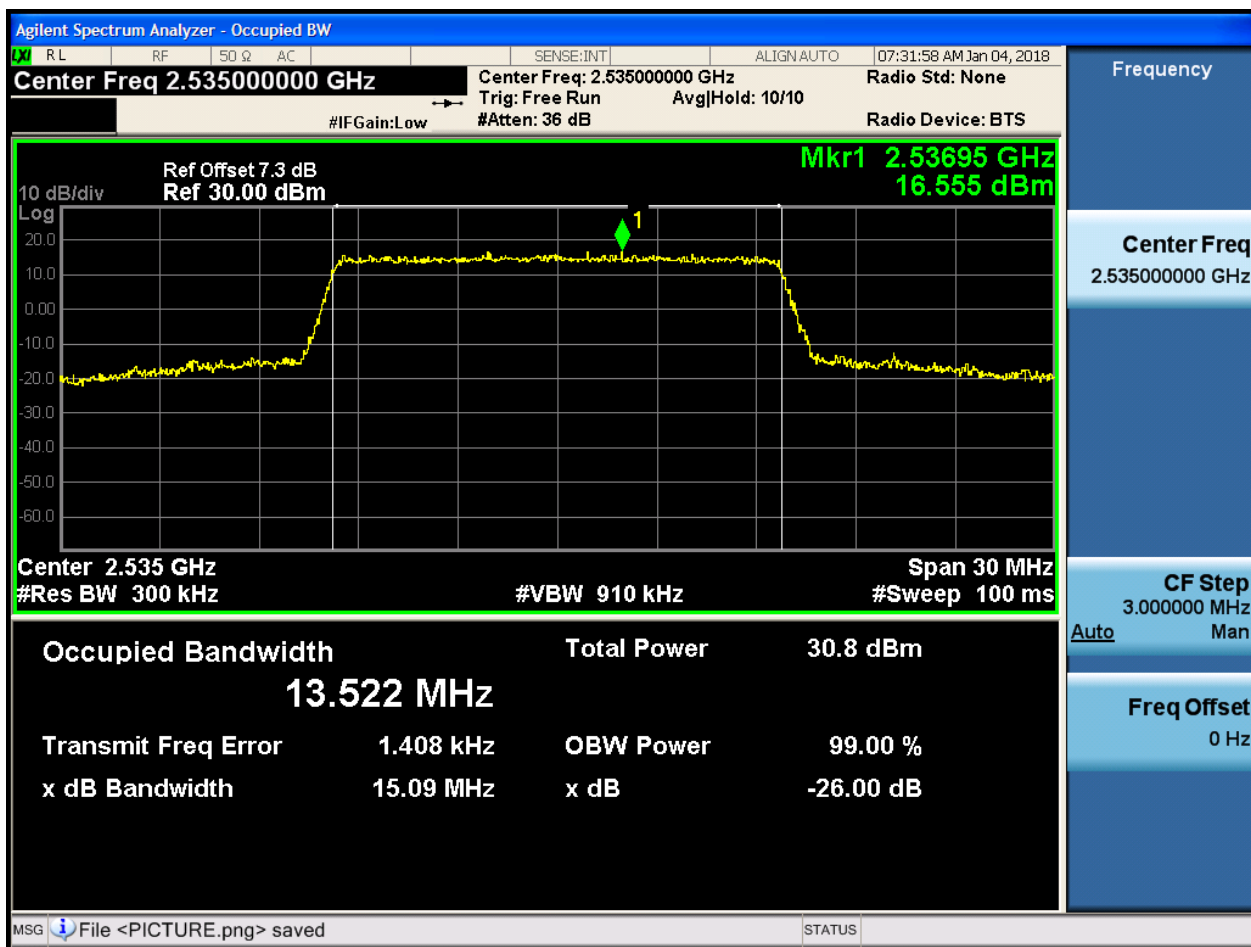
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

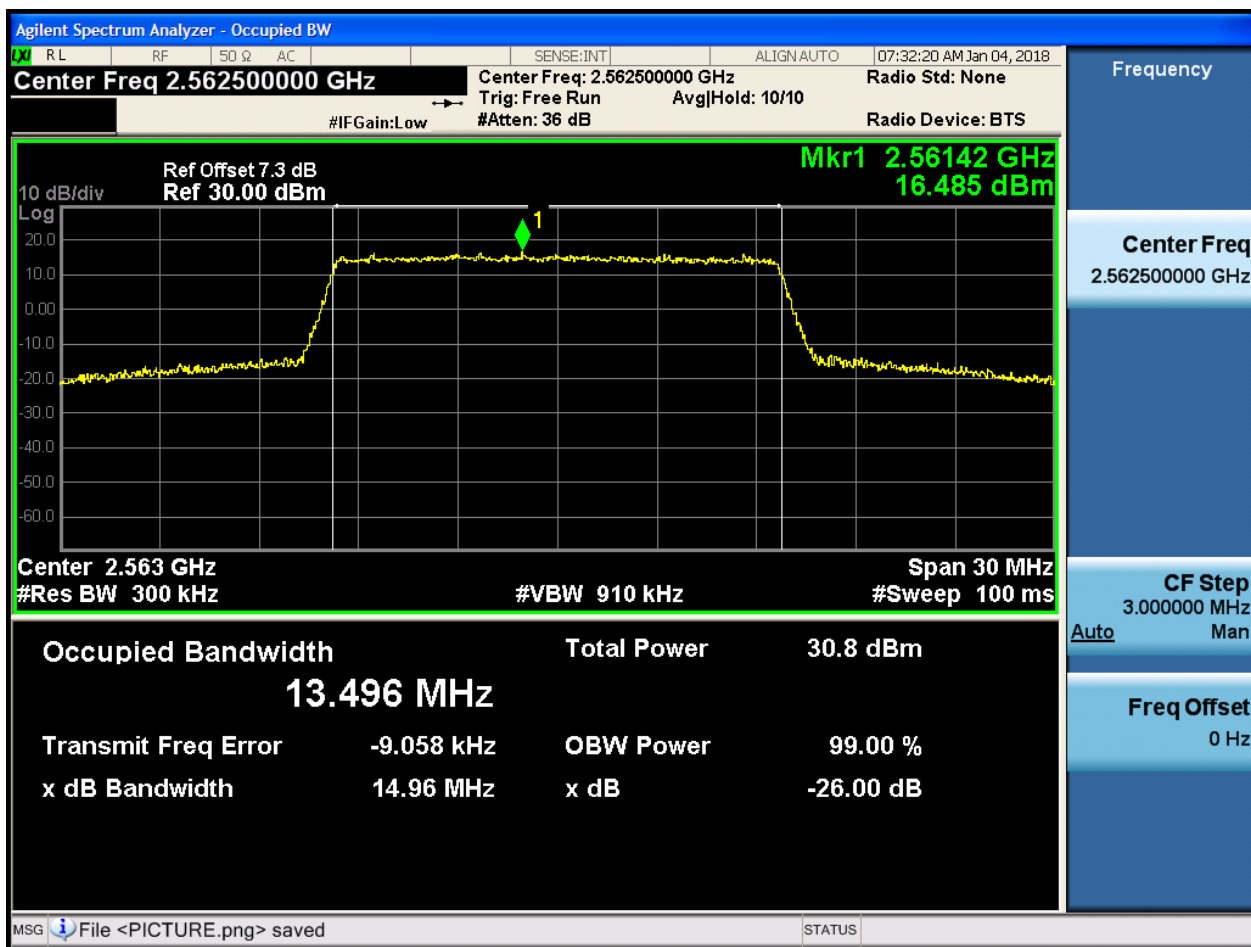
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

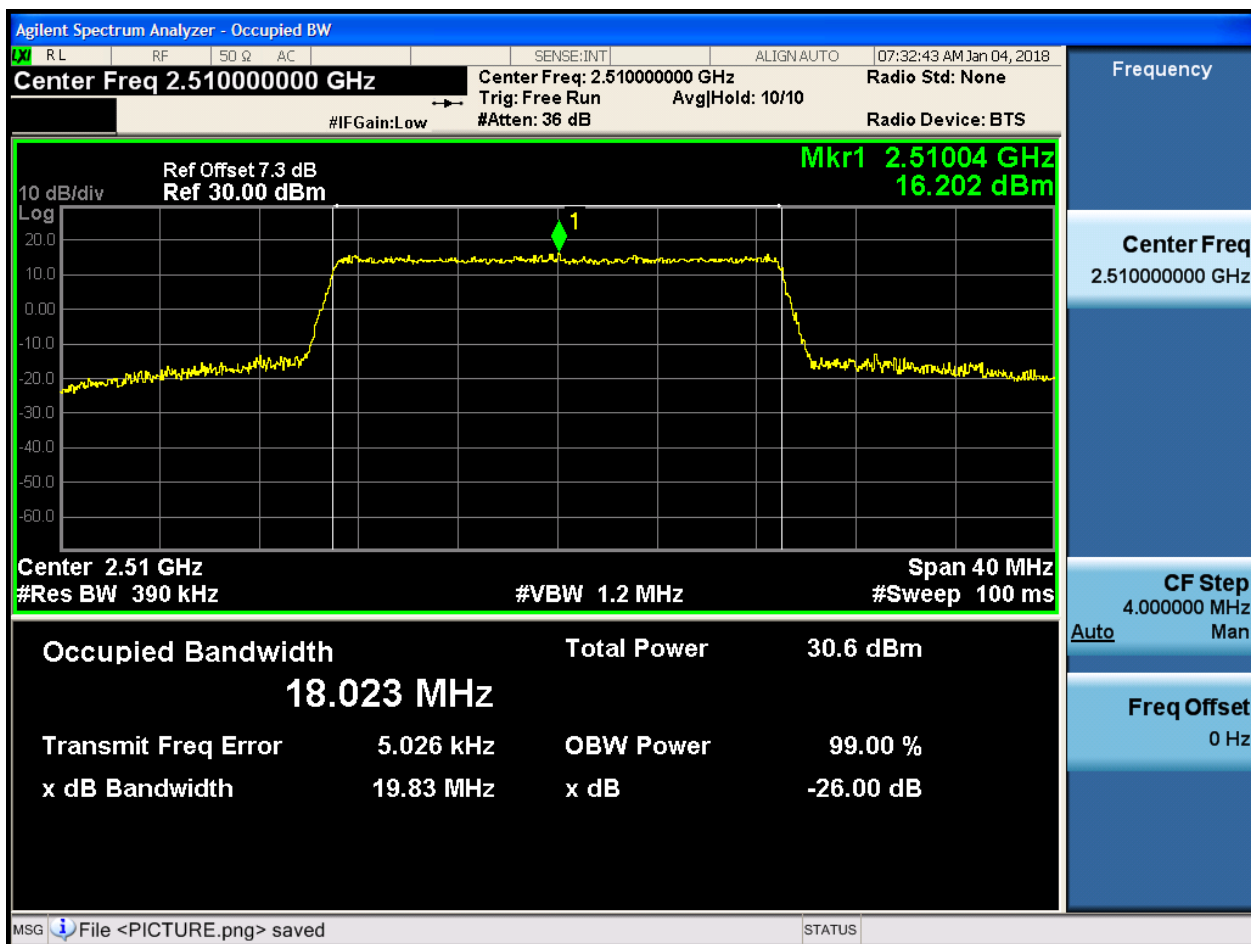




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

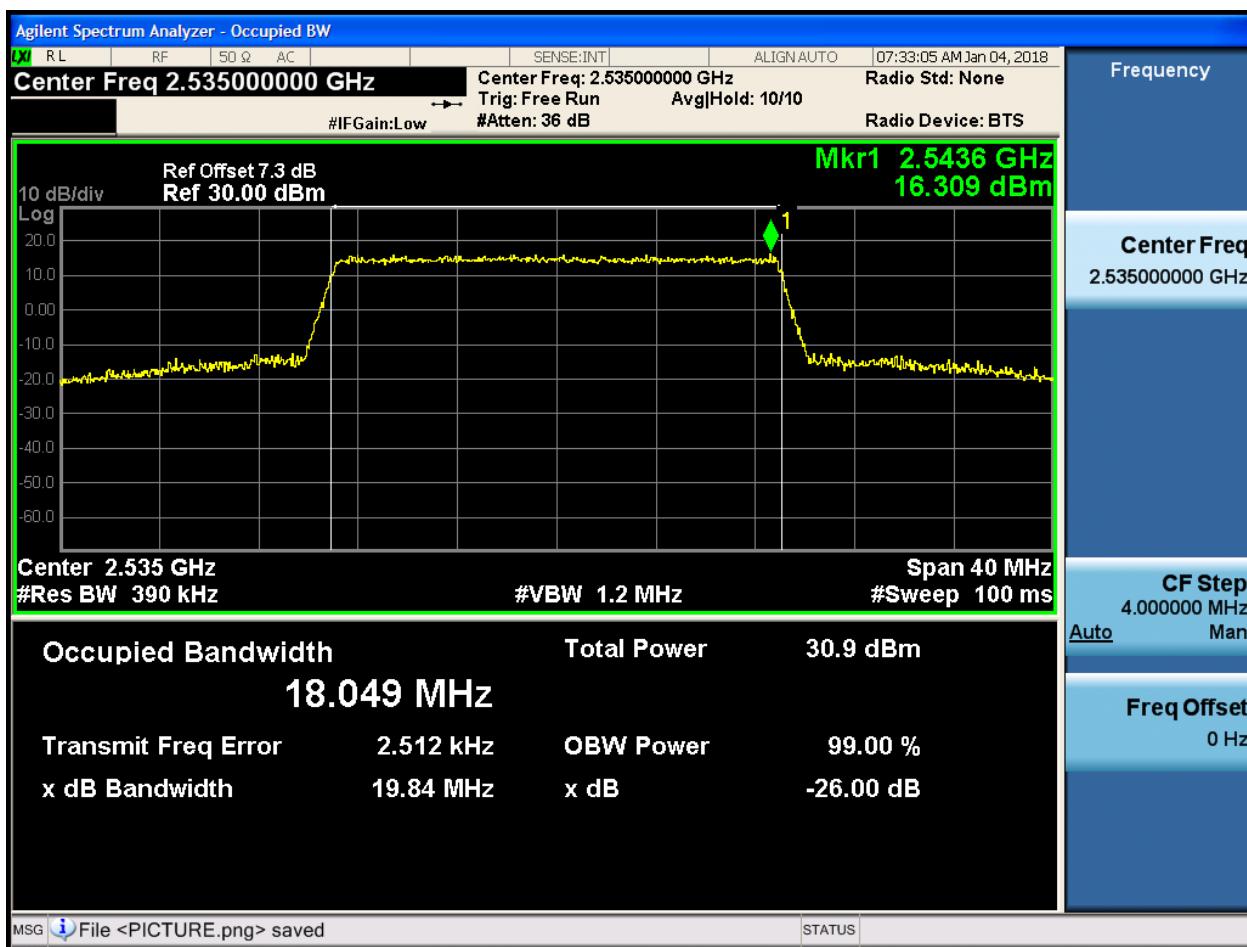
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

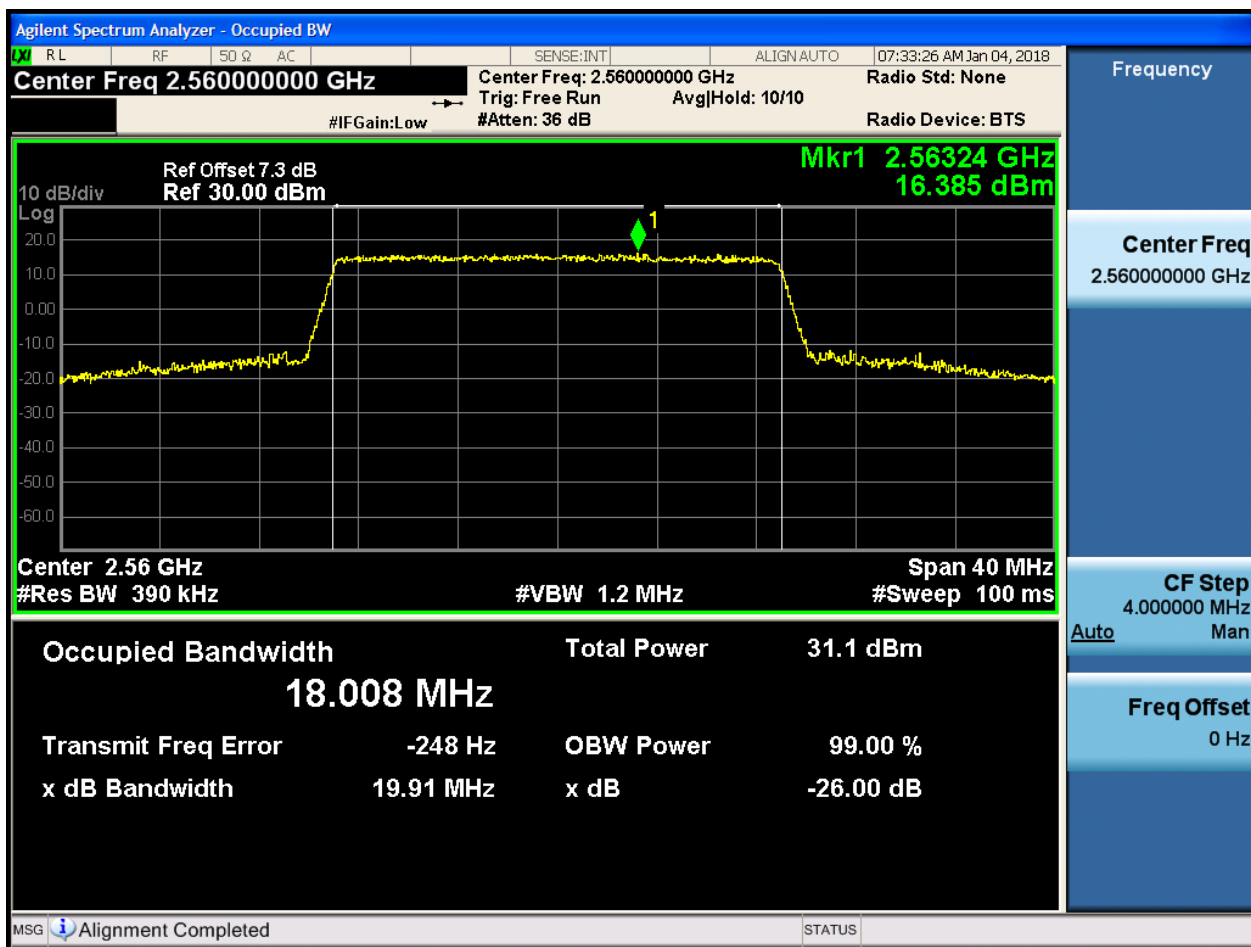
4.1.1.2.4.2.1 Test RB = RB100#0





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

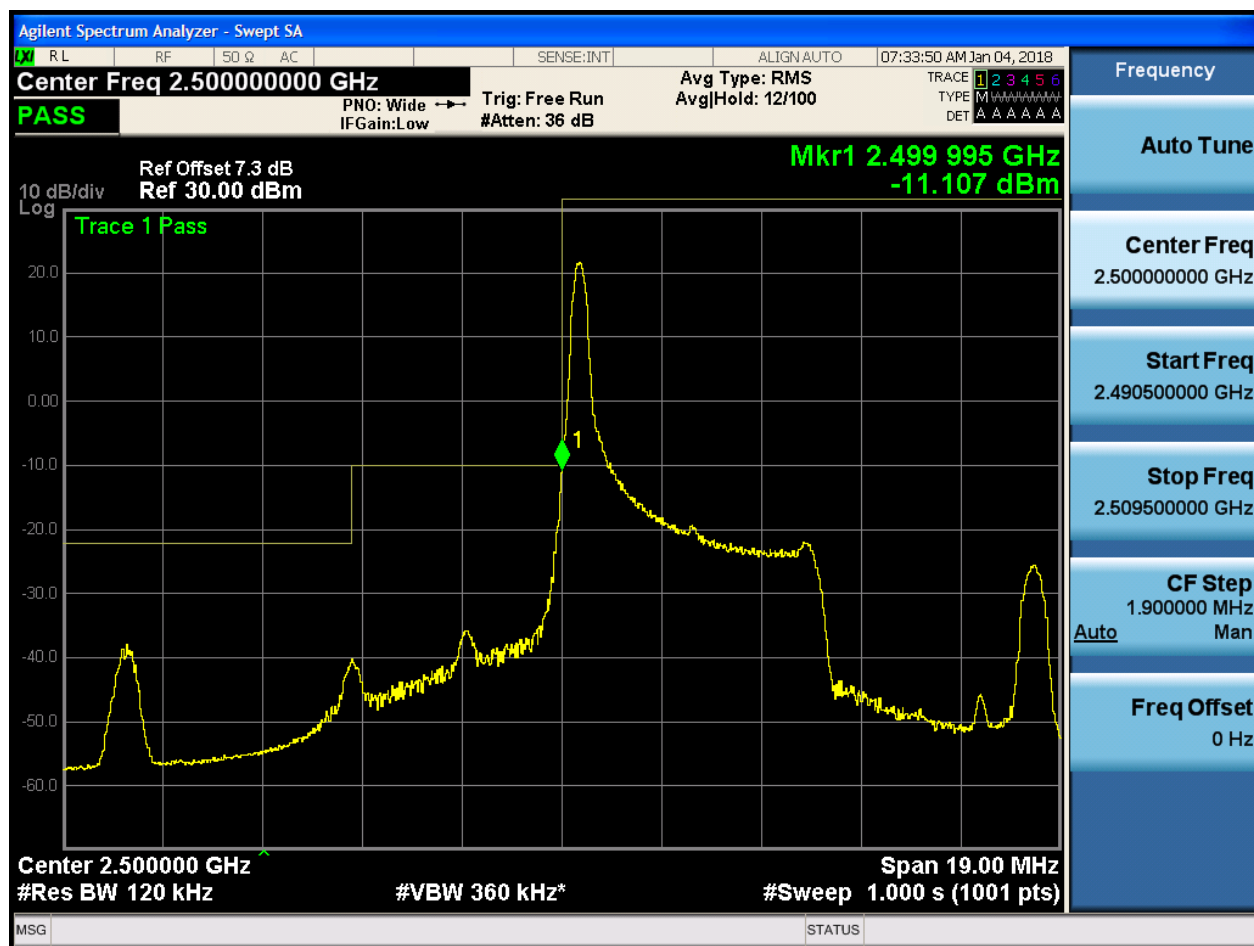
5.1.1 Test Band = BAND7

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 07:34:09 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-33.029 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz

#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

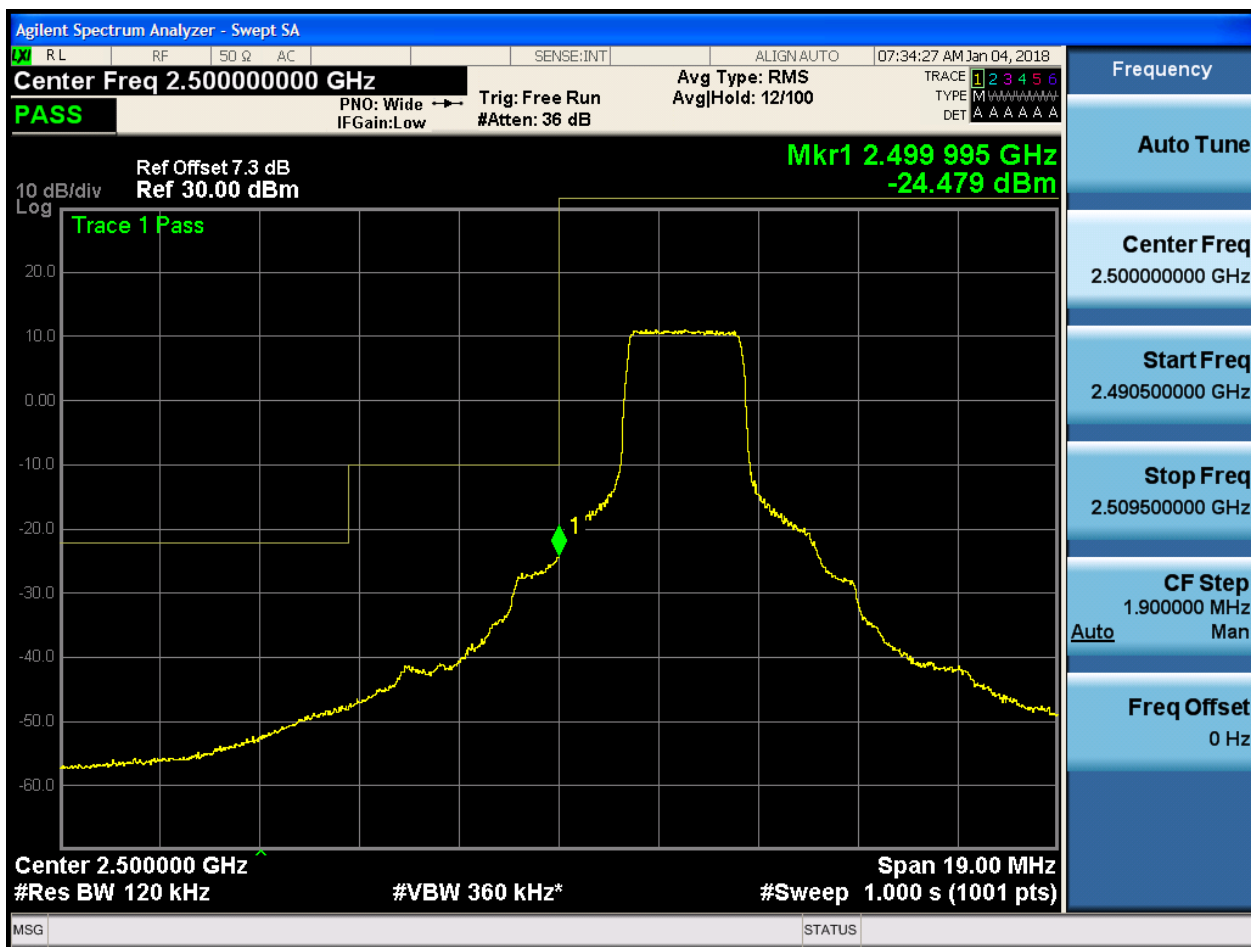
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

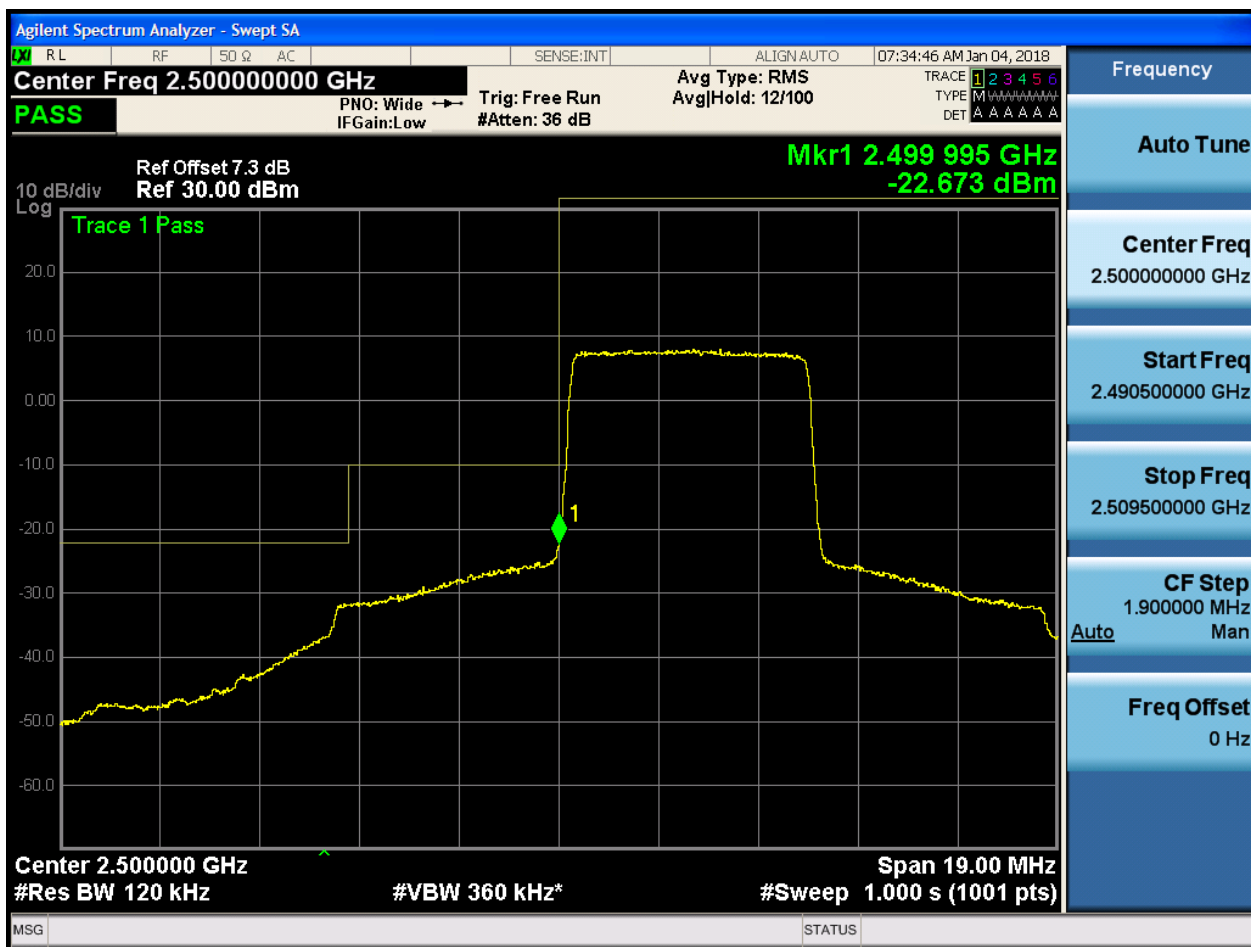


5.1.1.1.1.3 Test RB = RB12#6





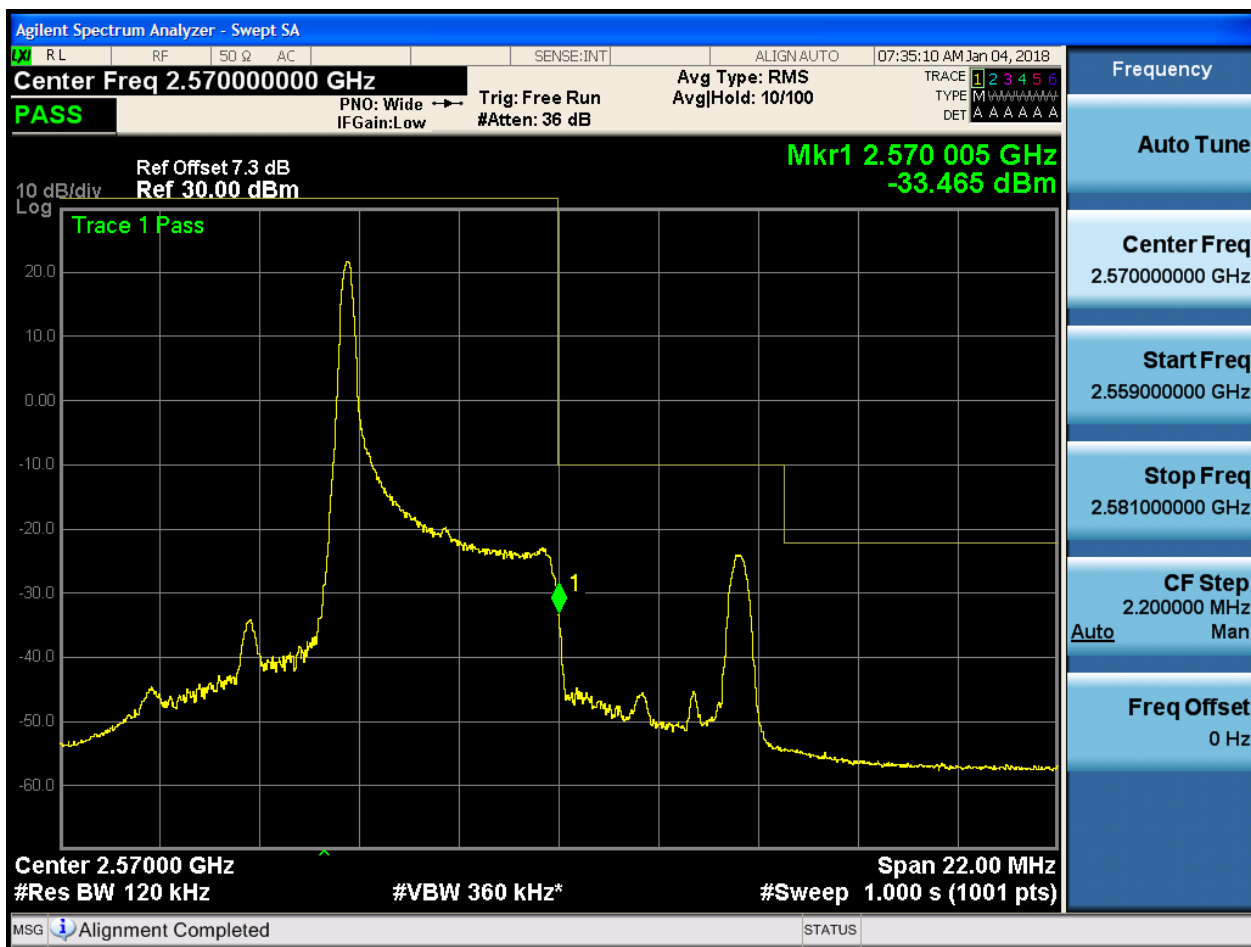
5.1.1.1.1.4 Test RB = RB25#0





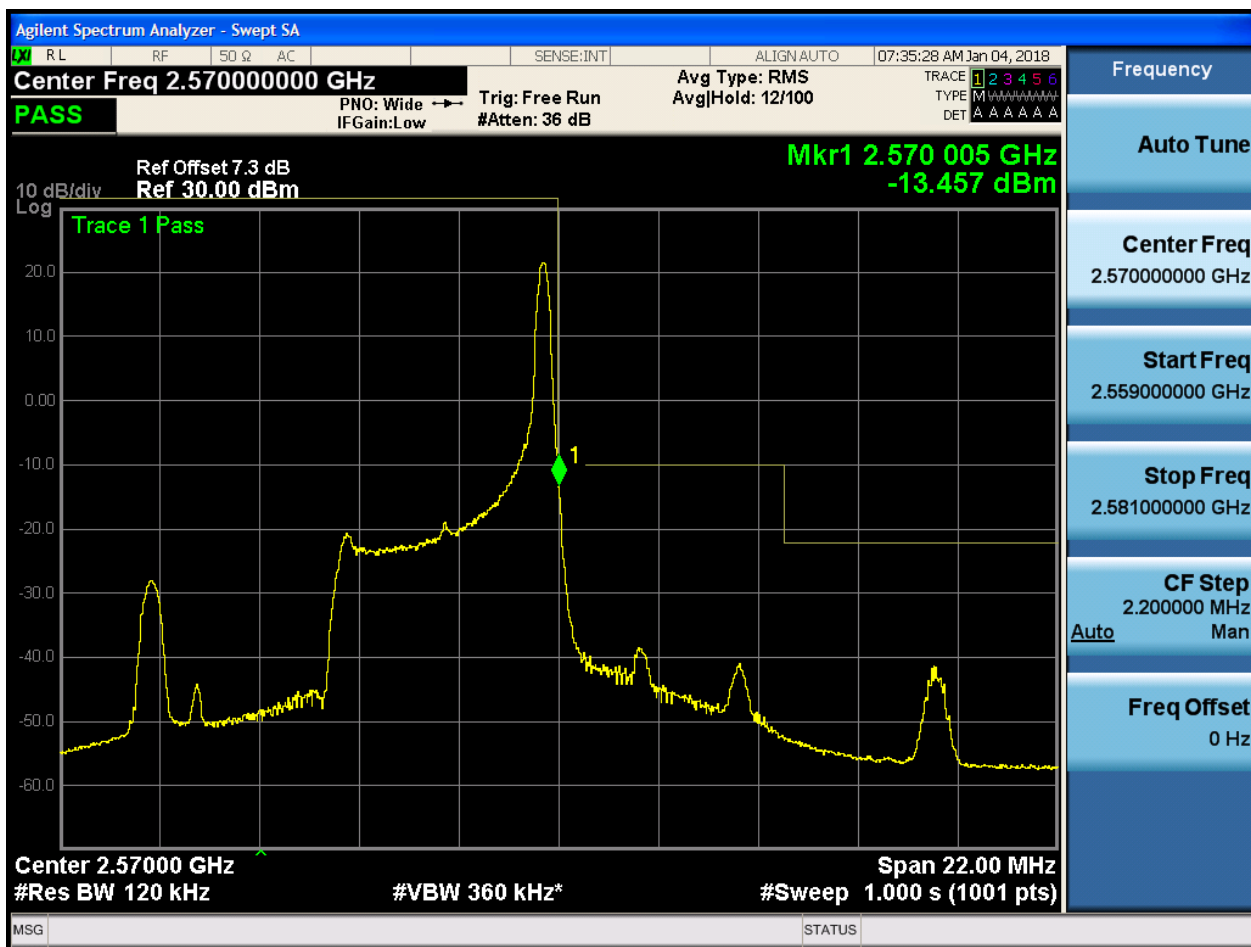
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



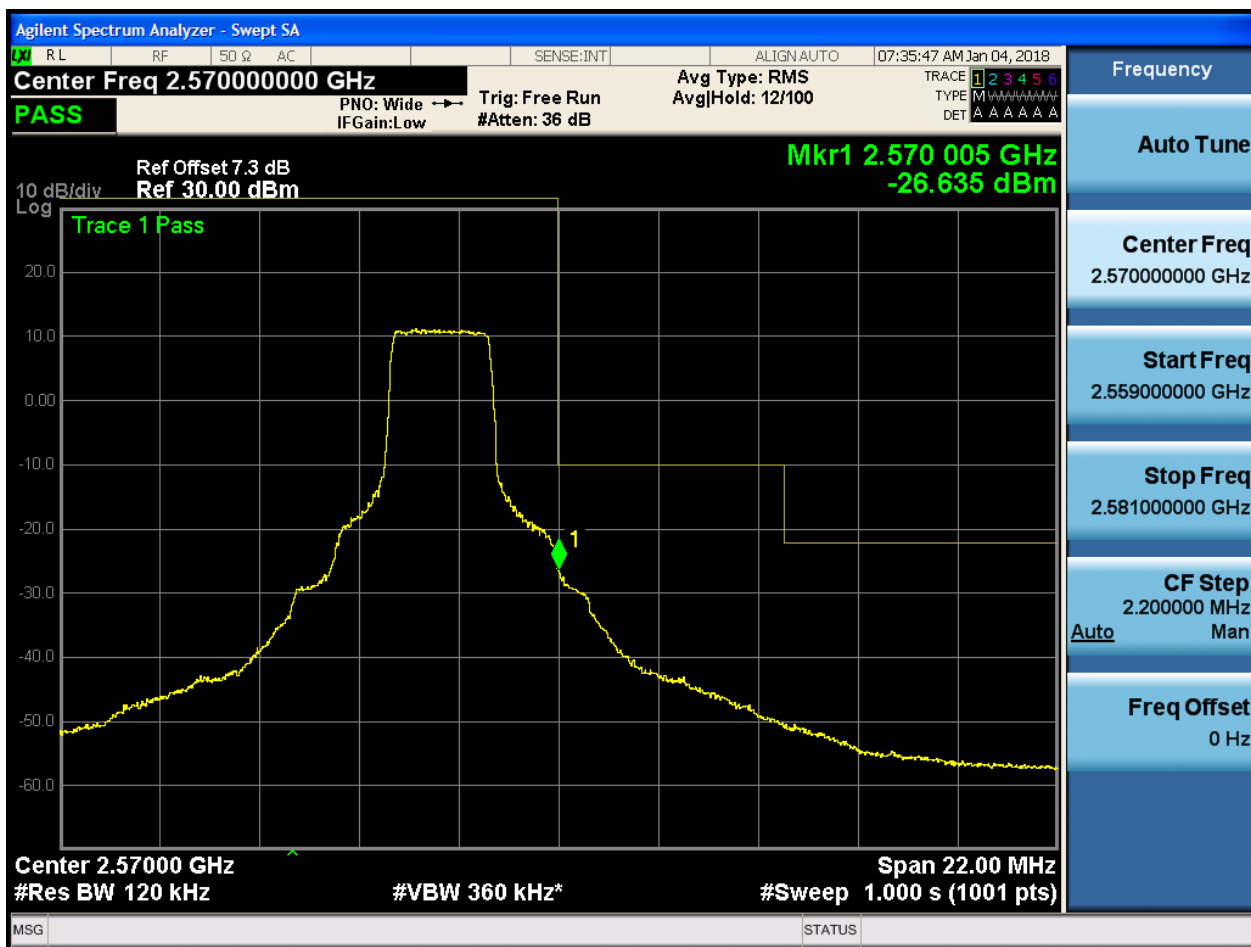


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





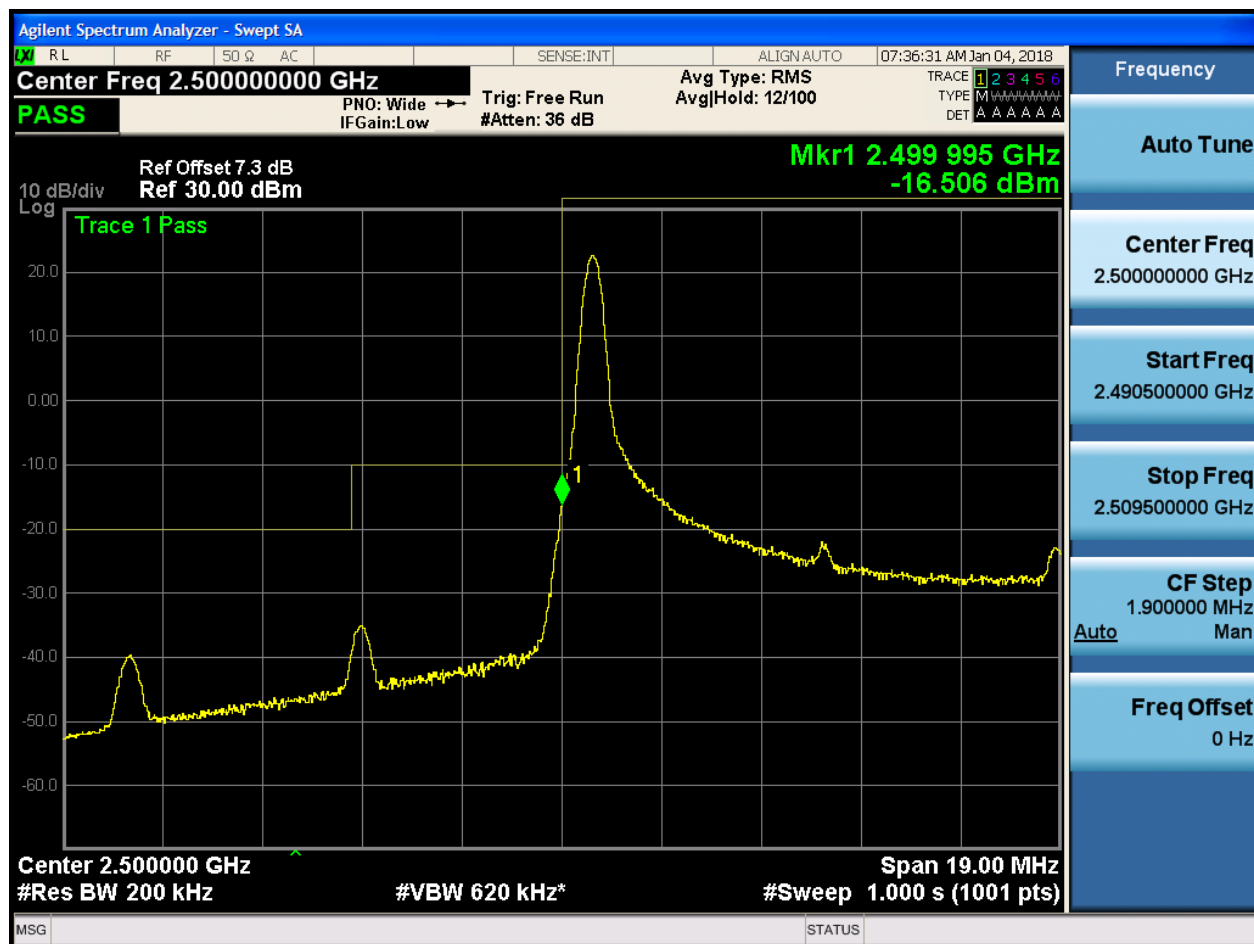
5.1.1.1.2.4 Test RB = RB25#0



5.1.1.1.2 Test Bandwidth = 10

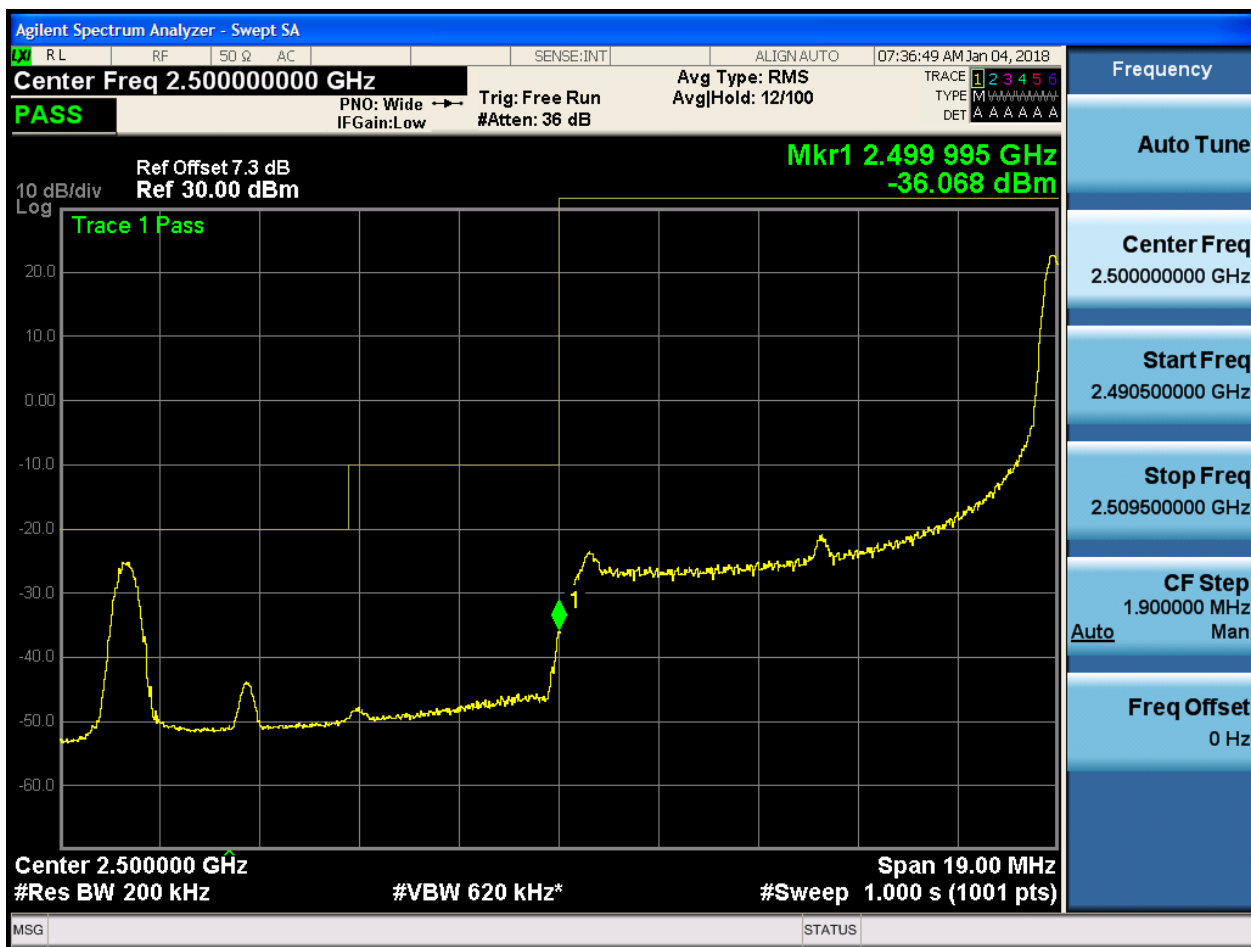
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49



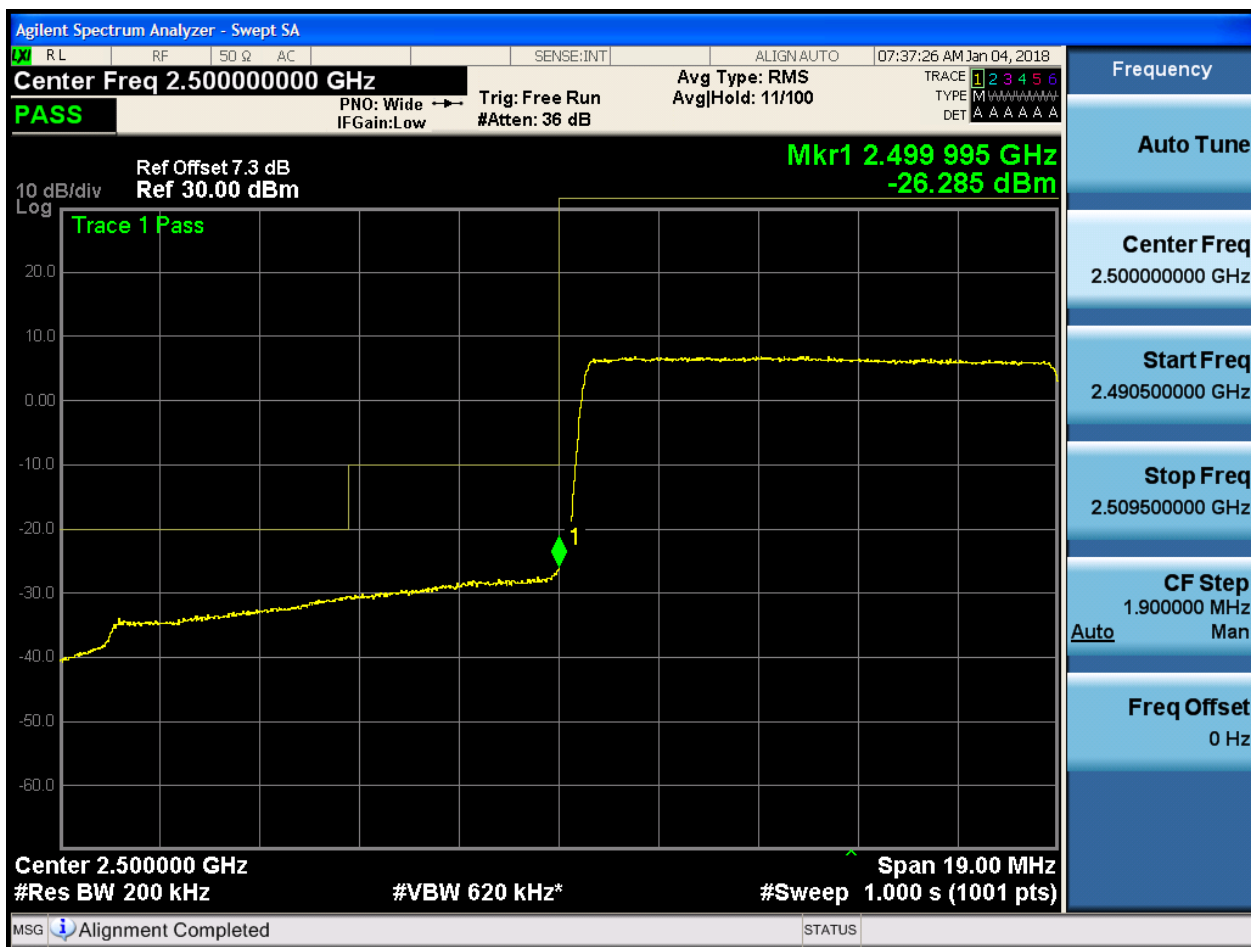


5.1.1.1.2.1.3 Test RB = RB25#13





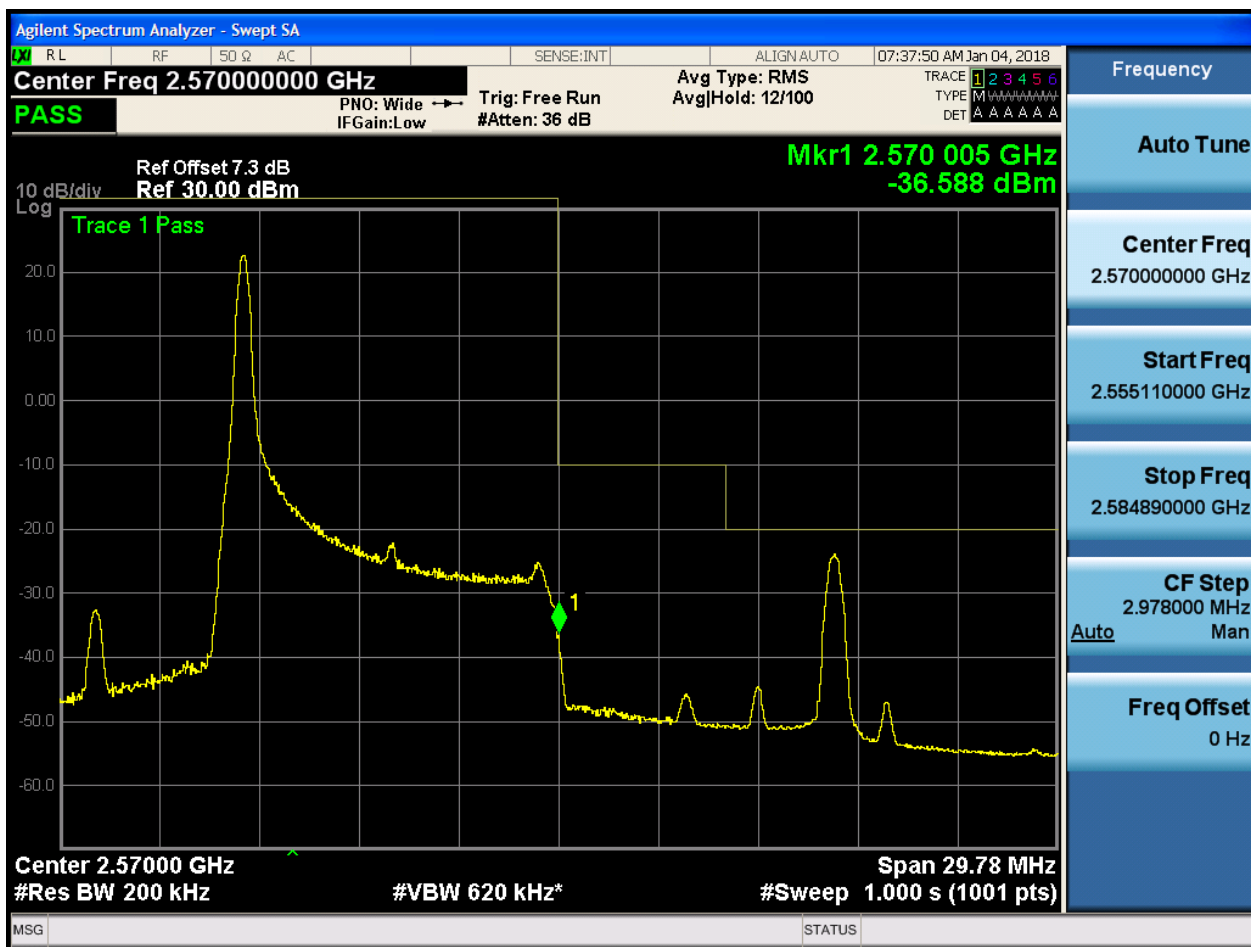
5.1.1.1.2.1.4 Test RB = RB50#0





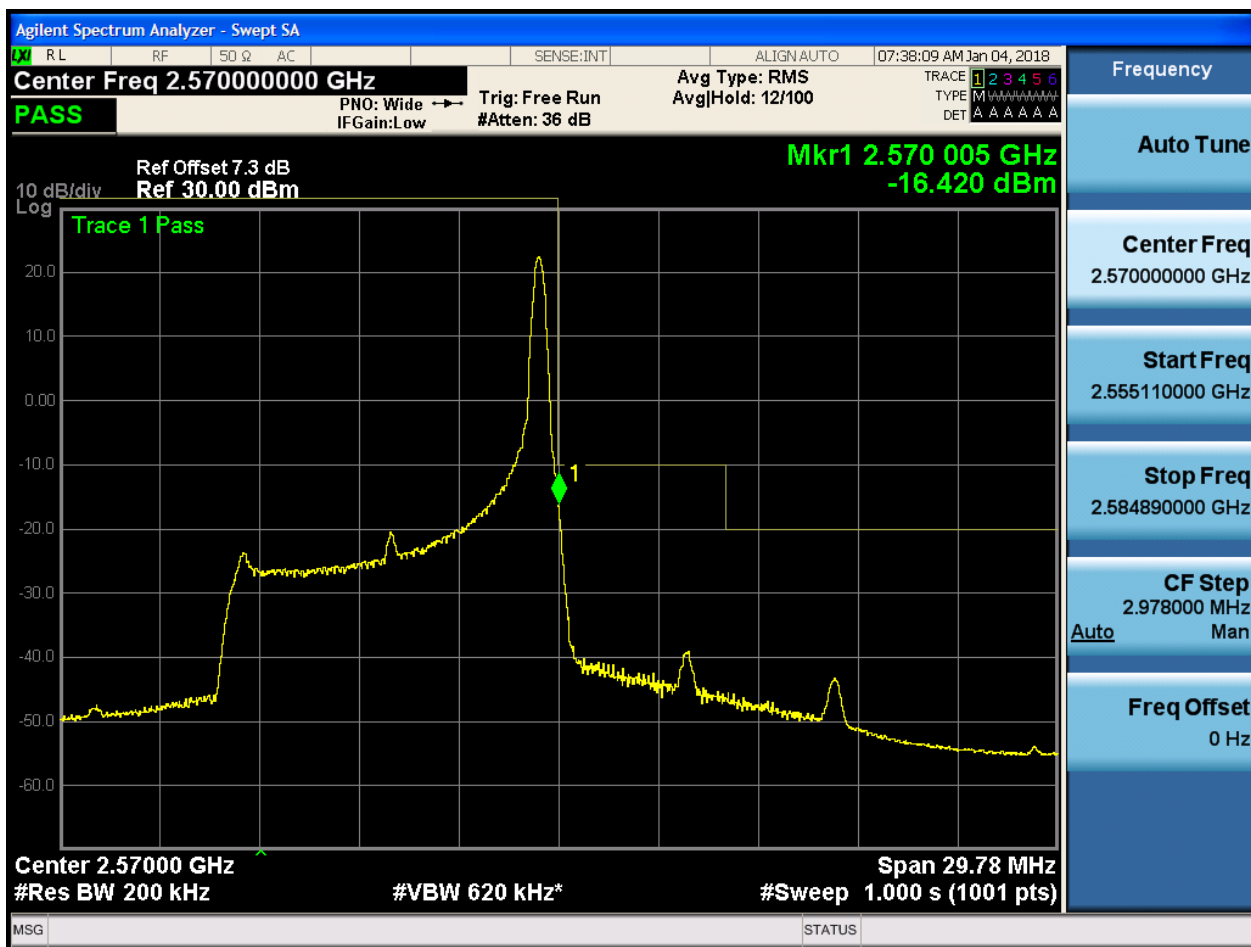
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0



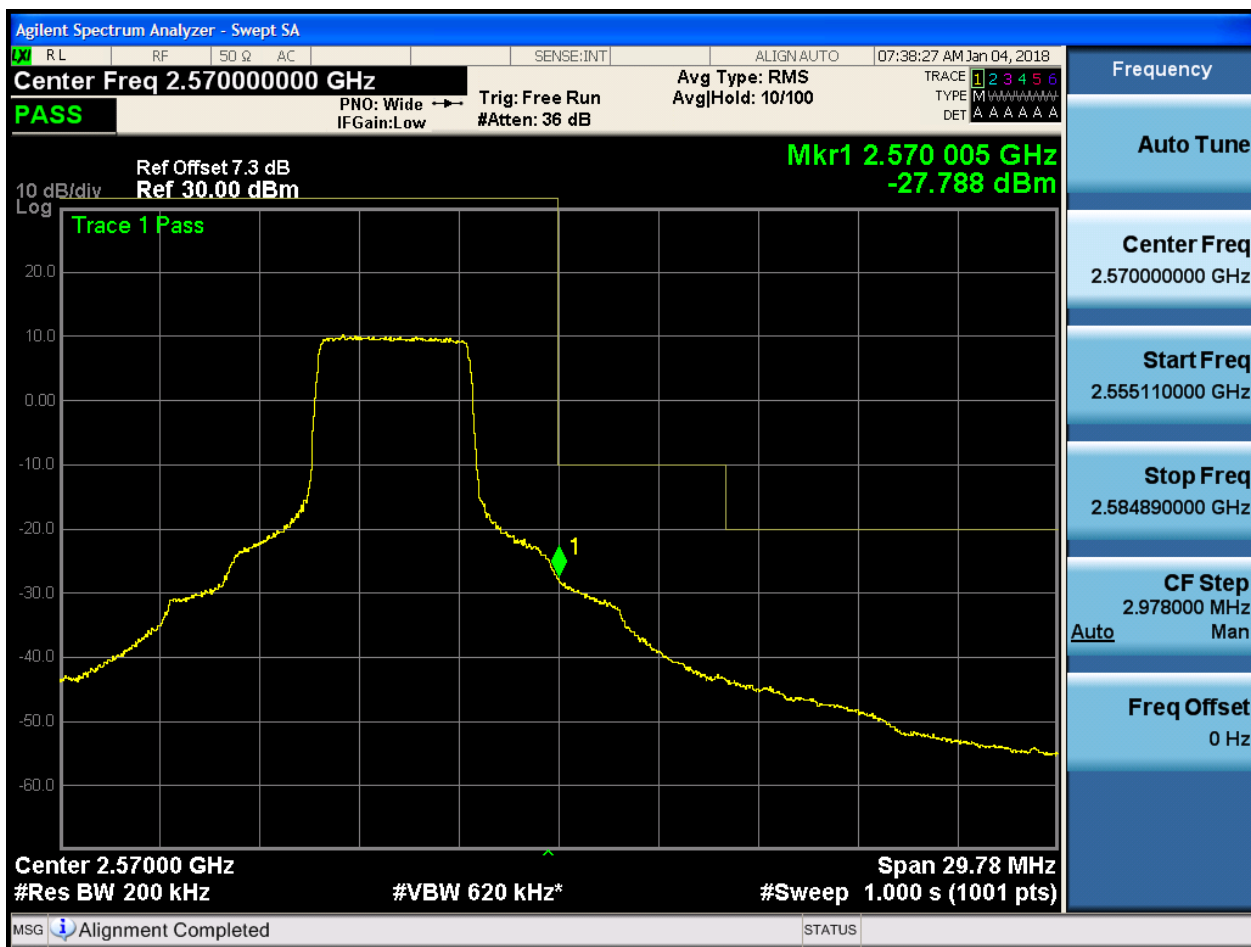


5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0

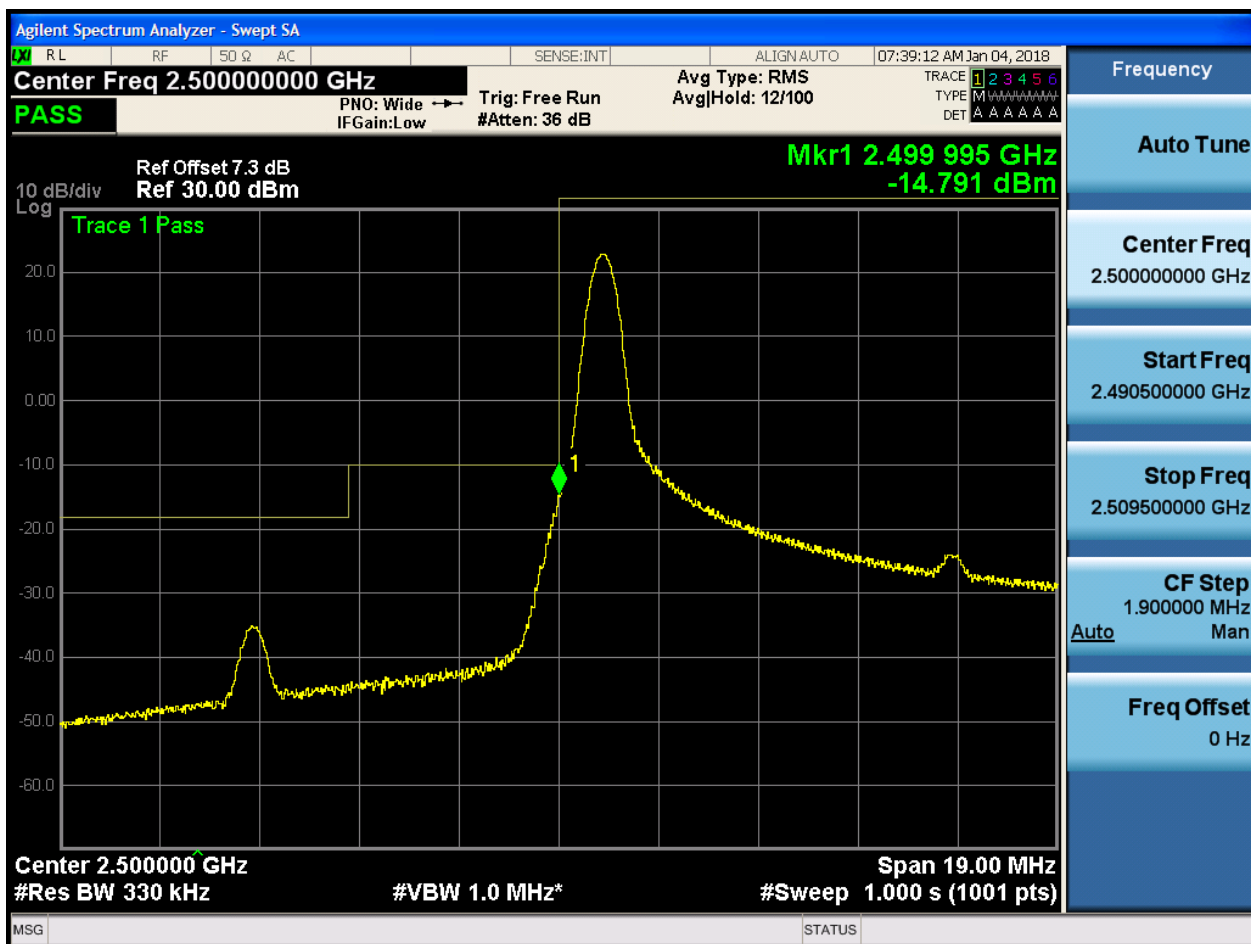




5.1.1.1.3 Test Bandwidth = 15

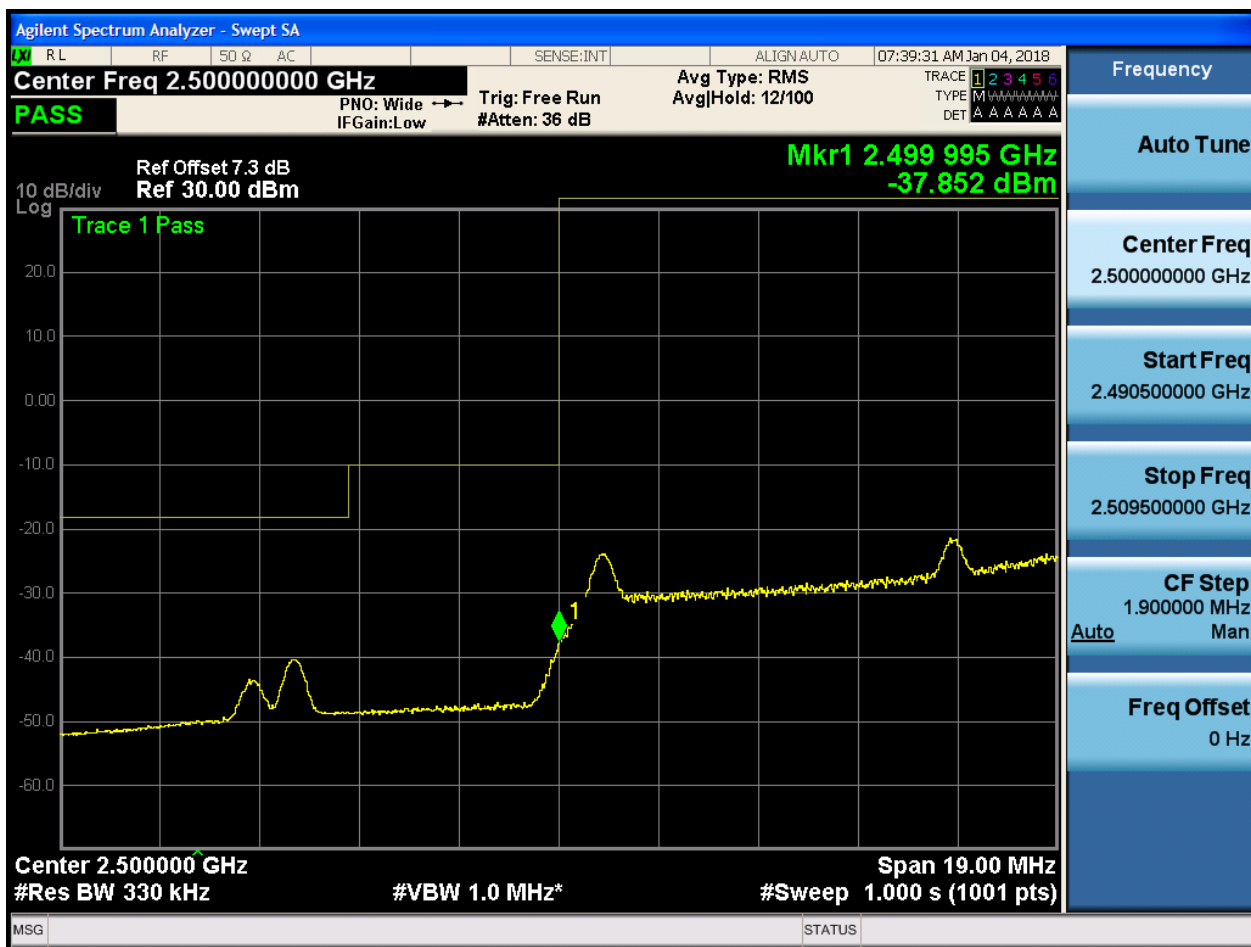
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:39:50 AM Jan 04, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 330 kHz PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-26.509 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 330 kHz #VBW 1.0 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

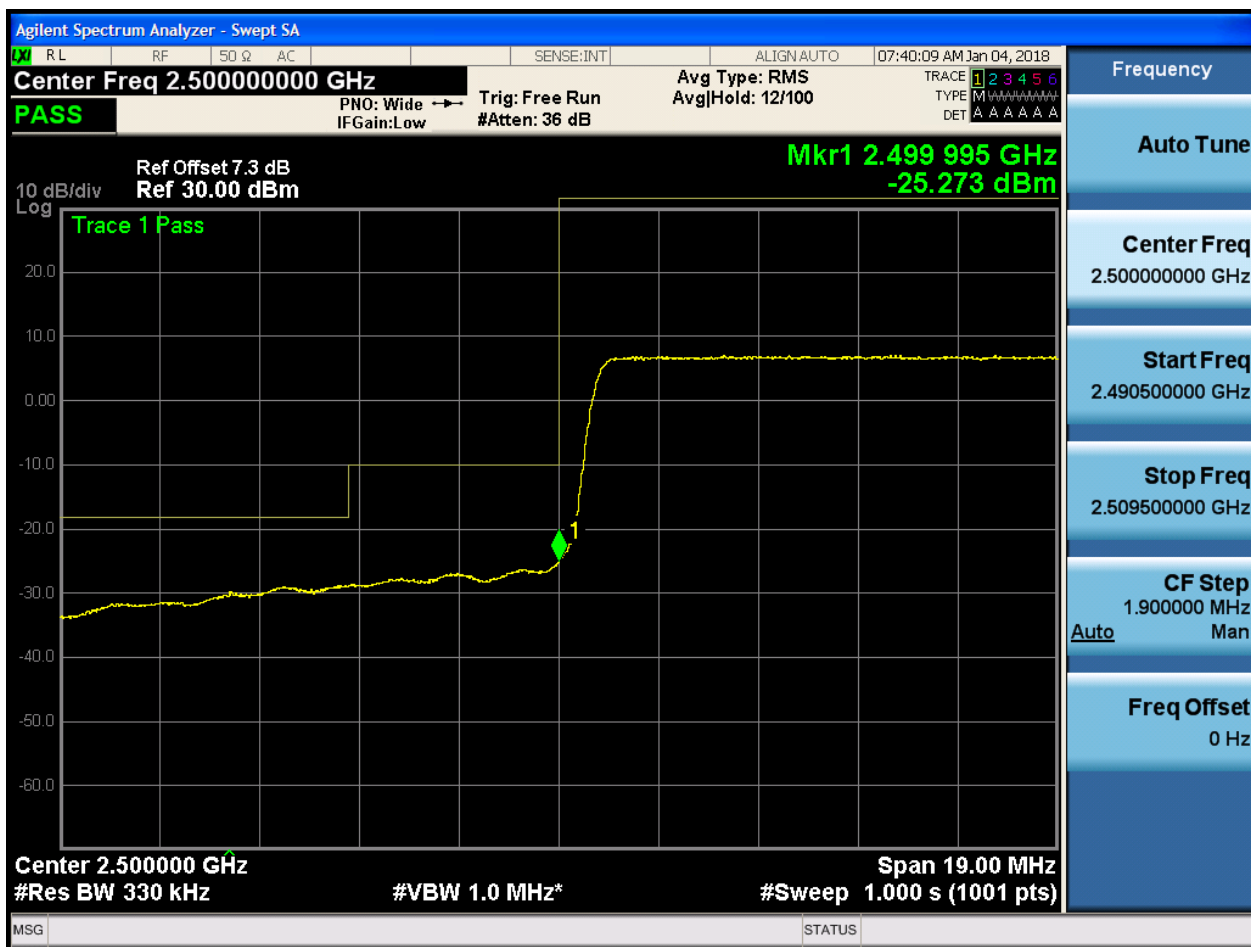
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

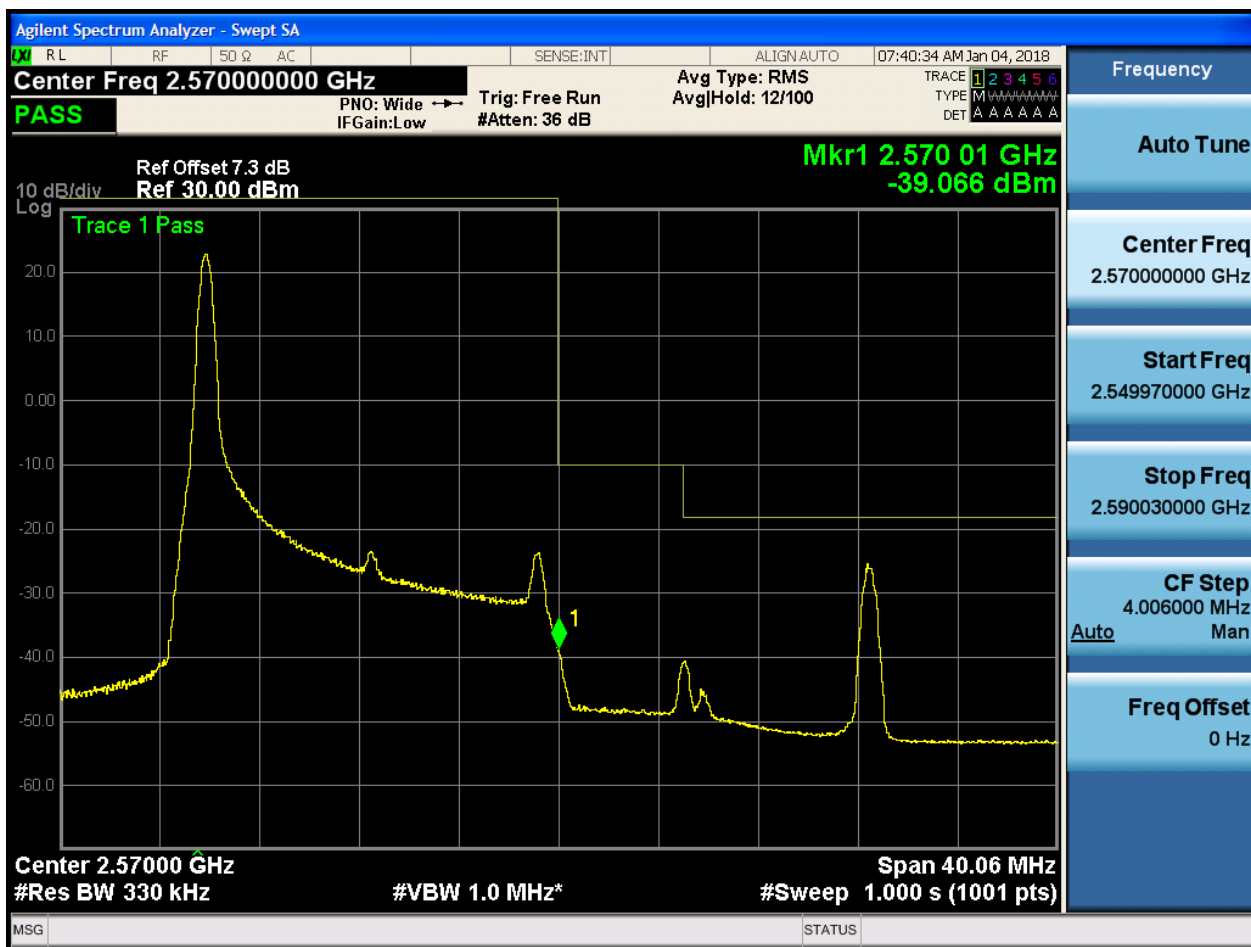


5.1.1.1.3.1.4 Test RB = RB75#0



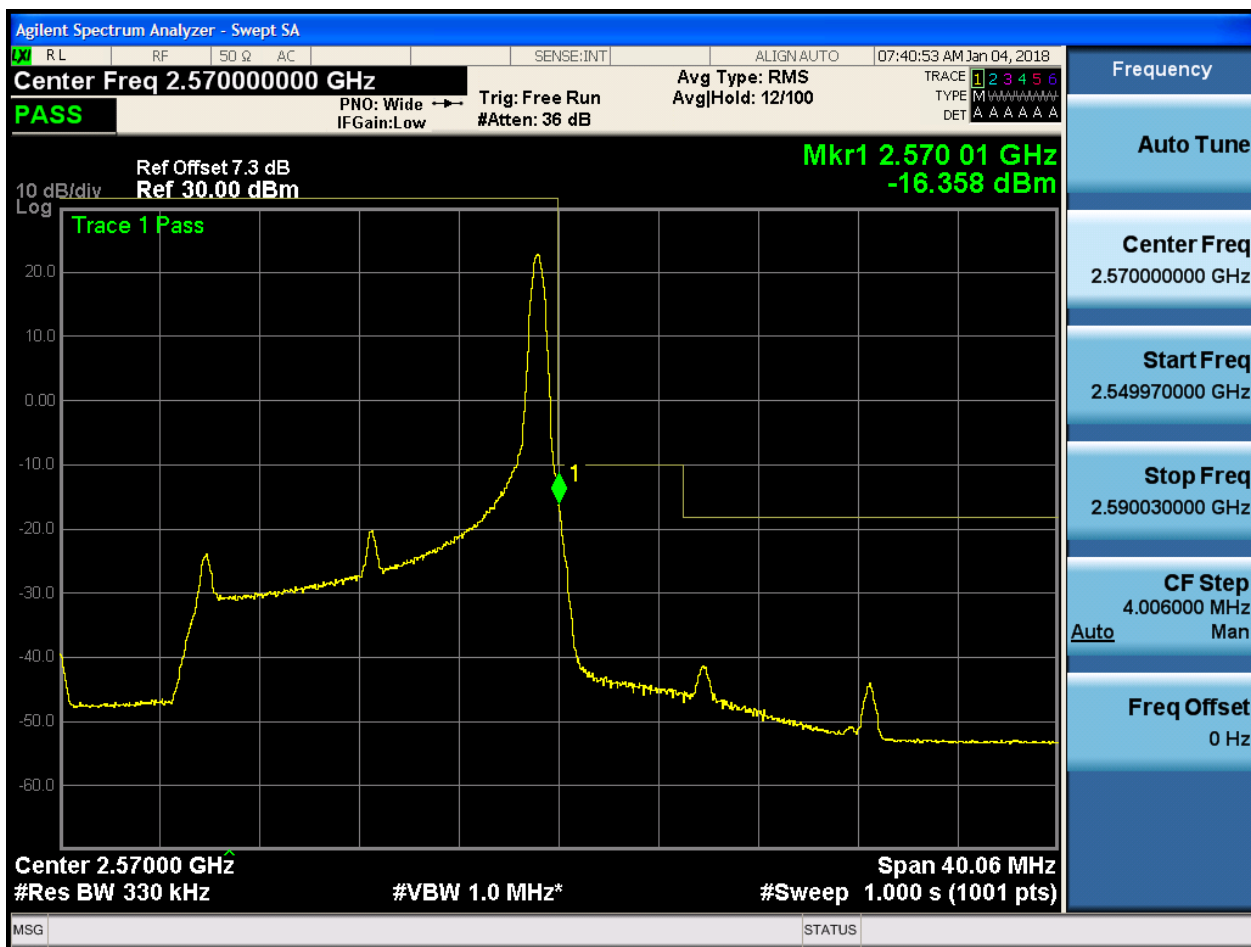
5.1.1.1.3.2 Test Channel = HCH

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





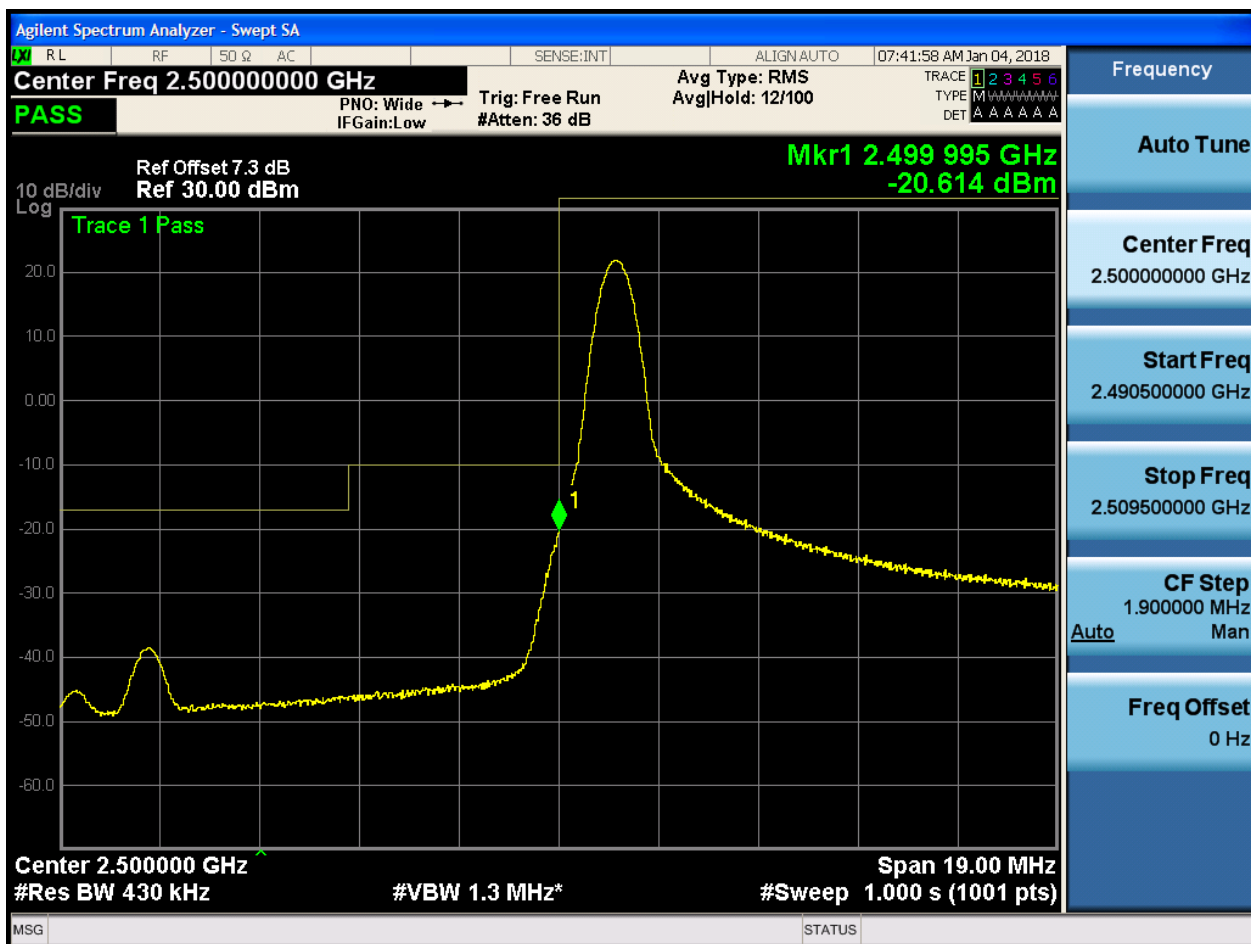
5.1.1.1.3.2.4 Test RB = RB75#0



5.1.1.1.4 Test Bandwidth = 20

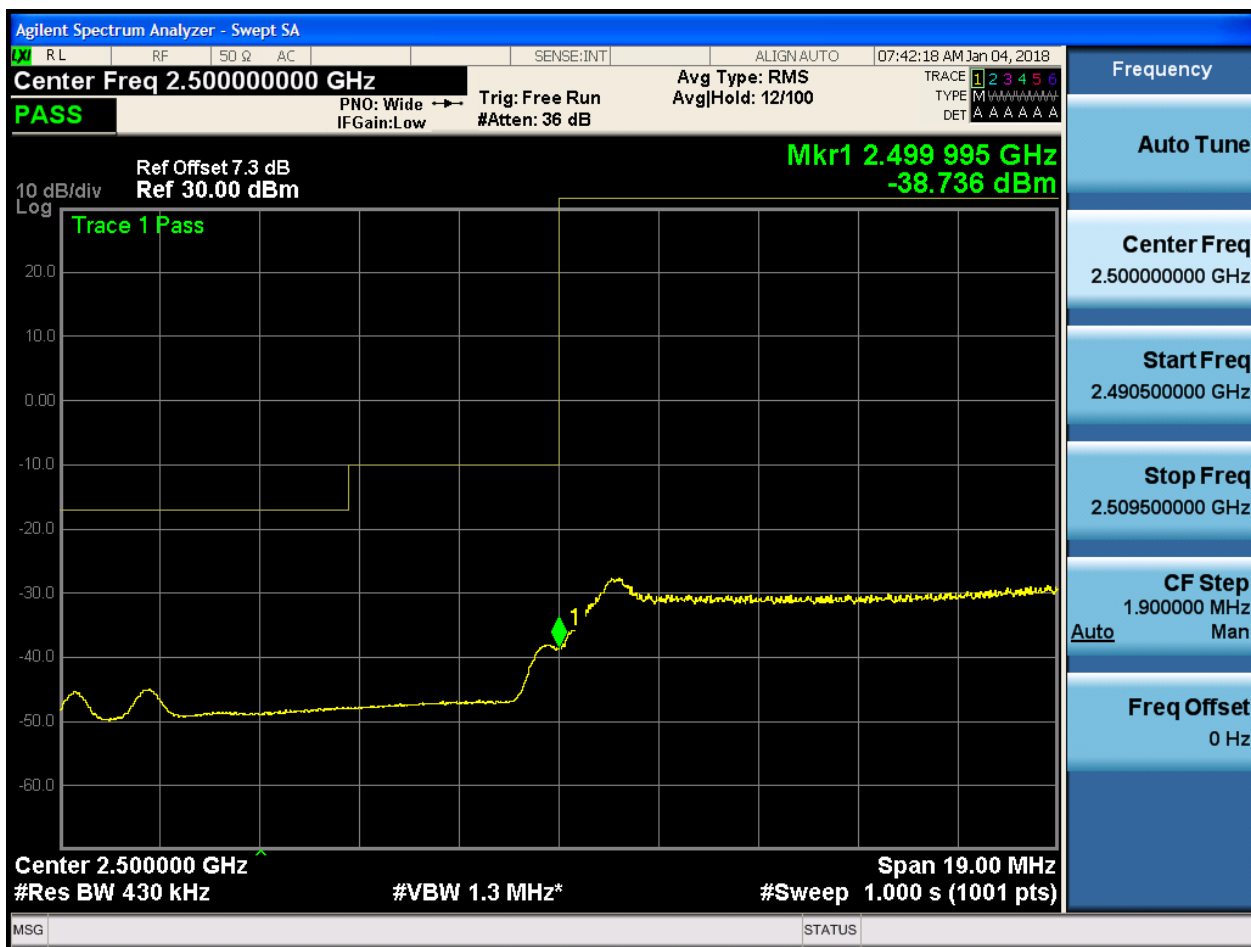
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:42:37 AM Jan 04, 2018

Center Freq 2.50000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run Avg|Hold: 11/100
IFGain:Low #Atten: 36 dB TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET A A A A A A A

Ref Offset 7.3 dB Mkr1 2.499 995 GHz
Ref 30.00 dBm -27.897 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 Alignment Completed STATUS

Frequency

Auto Tune

Center Freq
2.50000000 GHz

Start Freq
2.49050000 GHz

Stop Freq
2.50950000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-26.052 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)

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

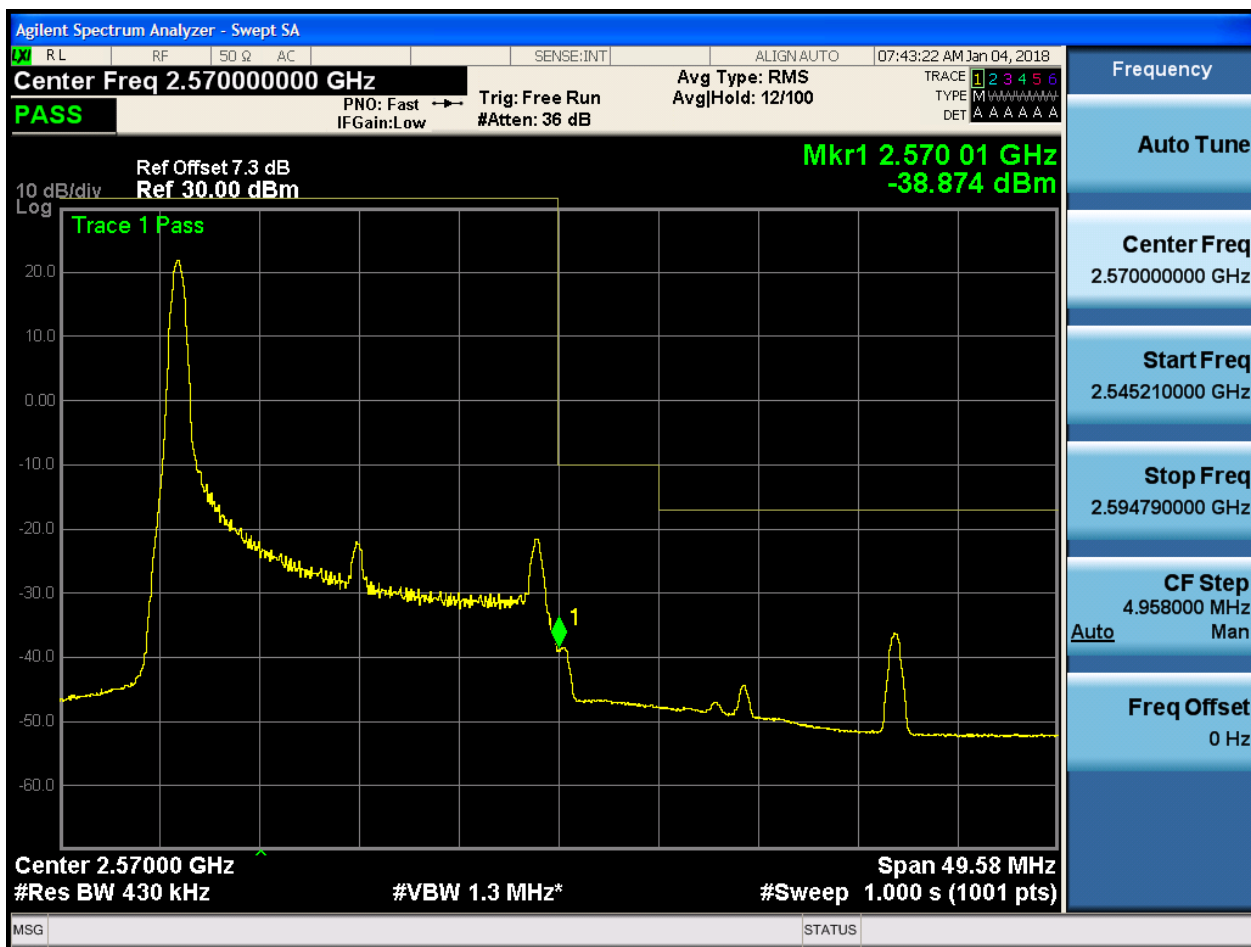
CF Step
1.900000 MHz
Auto

Freq Offset
0 Hz



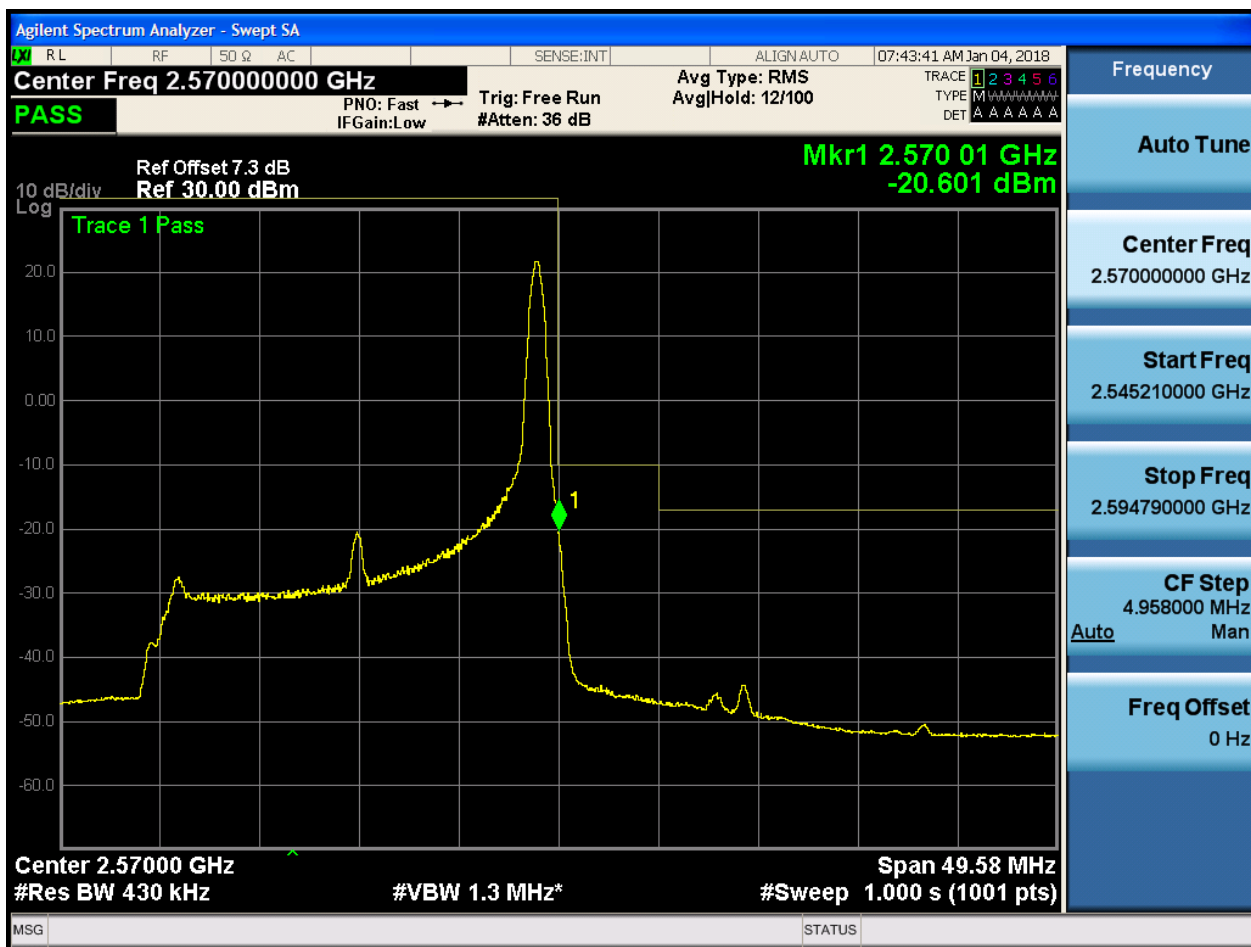
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



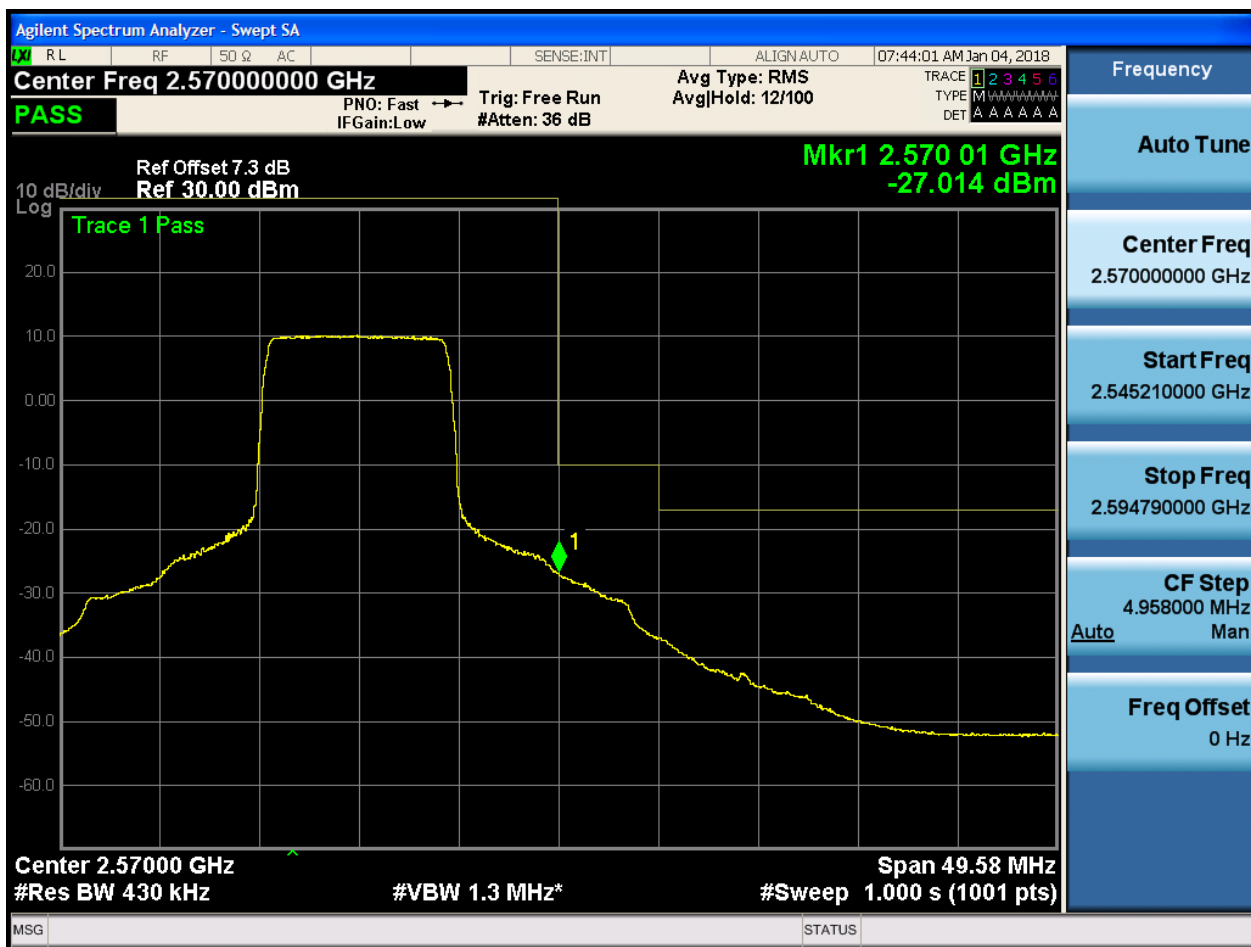


5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



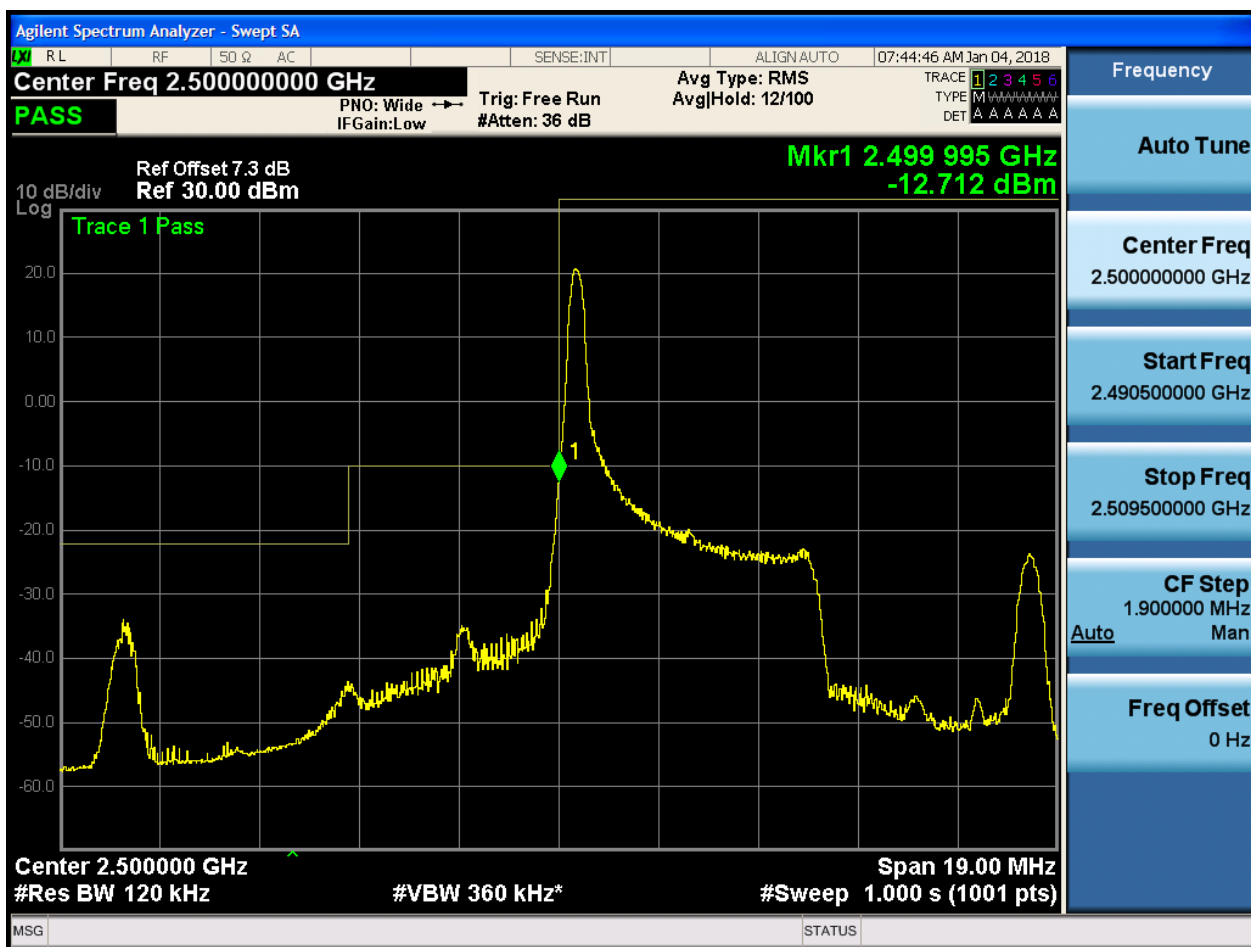


5.1.1.2 Test Mode = LTE/TM2

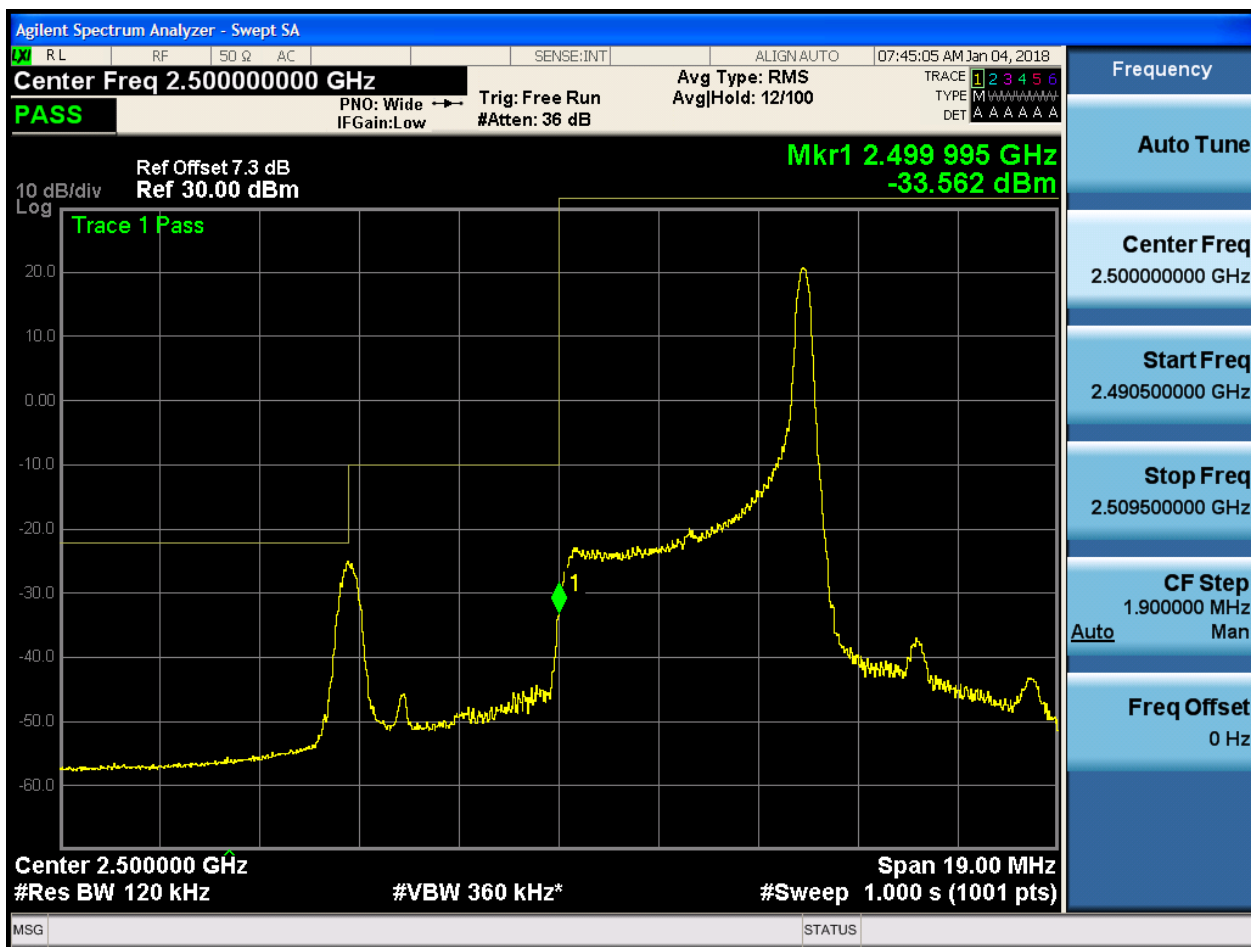
5.1.1.2.1 Test Bandwidth = 5

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:45:23 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-26.212 dBm

10 dB/div
Log

Trace 1 Pass

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

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:45:42 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-23.535 dBm

10 dB/div
Log

Trace 1 Pass

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

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

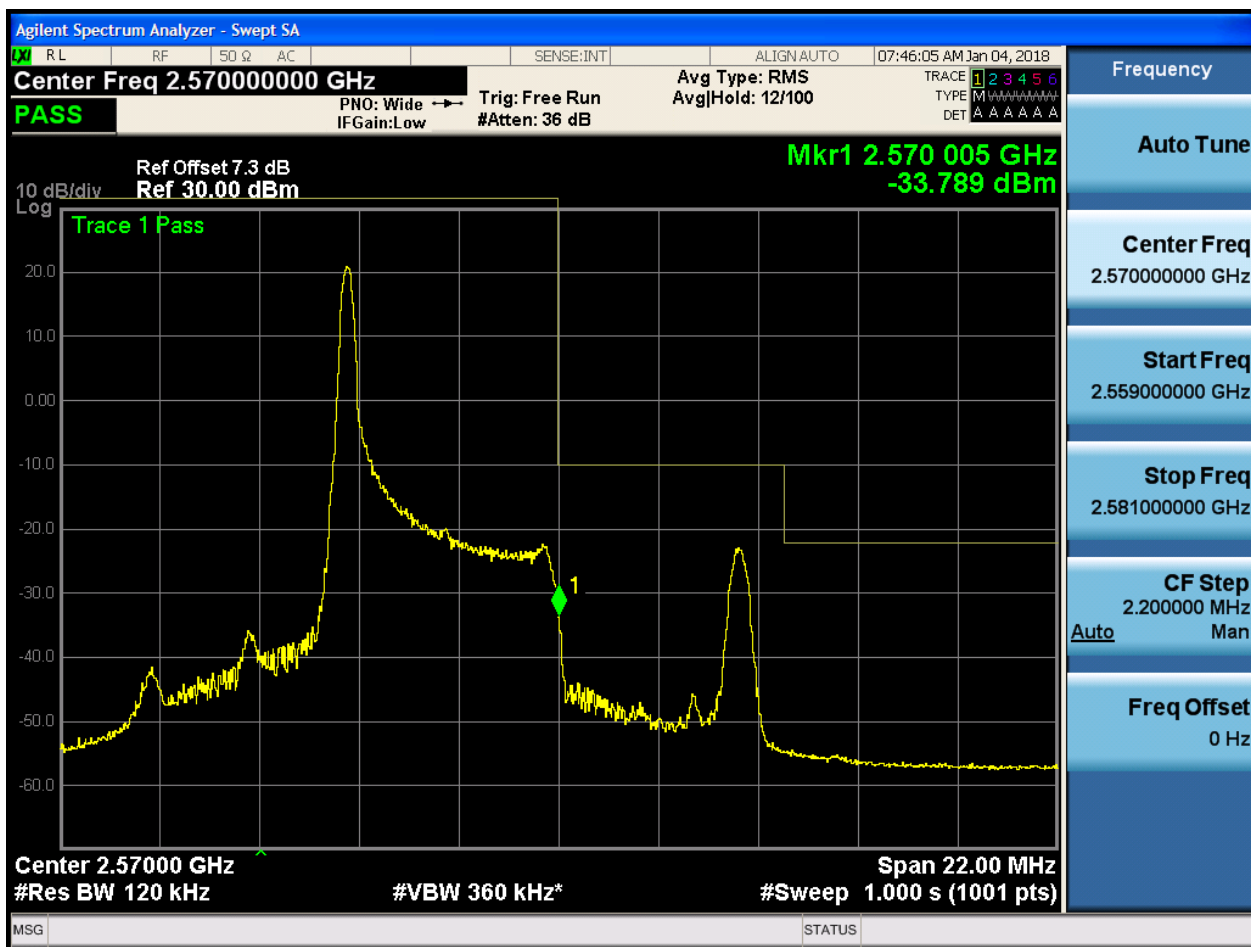
Freq Offset
0 Hz

MSG STATUS



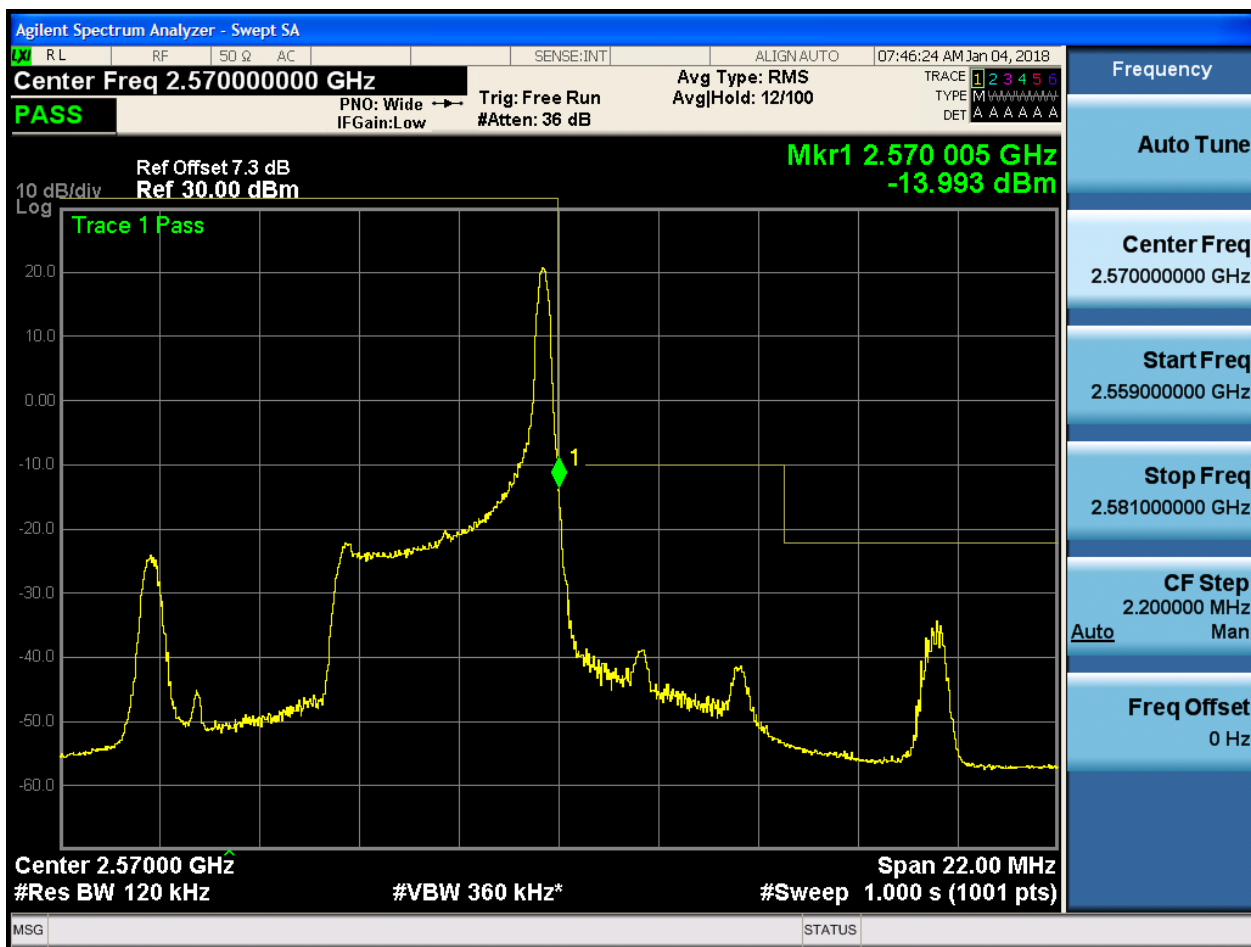
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



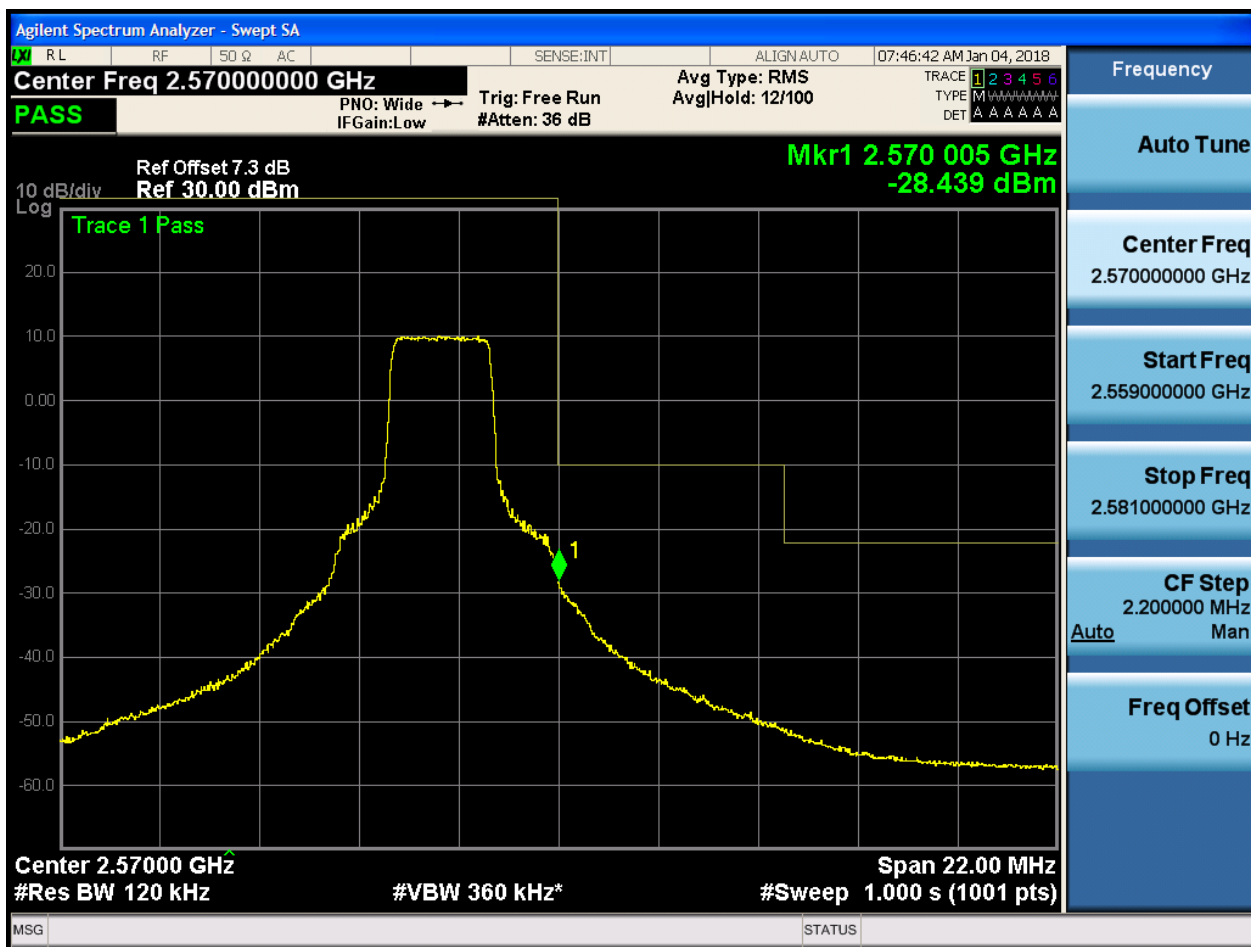


5.1.1.2.1.2.2 Test RB = RB1#24





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 07:47:01 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-24.635 dBm

10 dB/div
Log

Trace 1 Pass

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

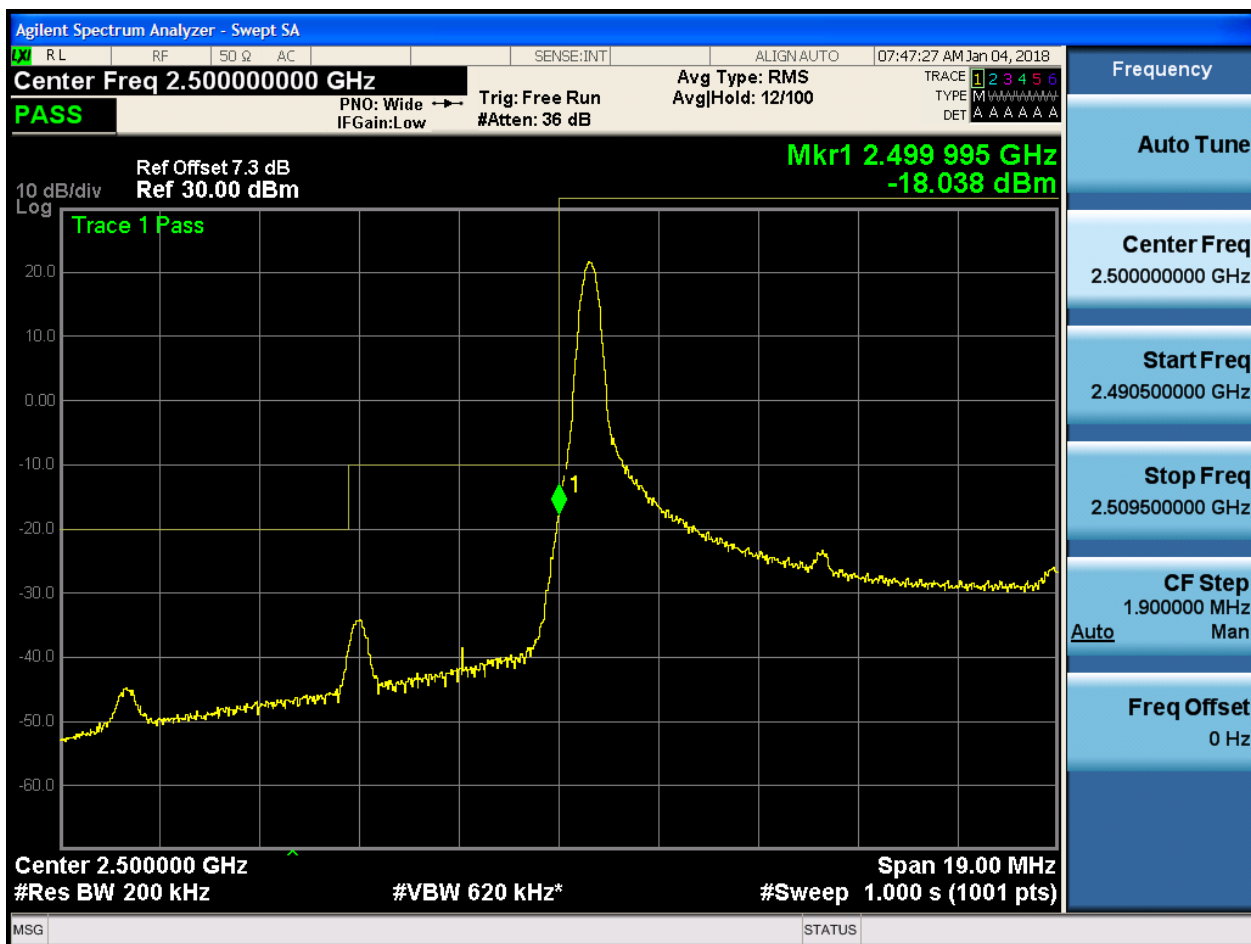
MSG STATUS



5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:47:45 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
 Ref 30.00 dBm

Mkr1 2.499 995 GHz
 -38.004 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)

Frequency

Auto Tune

Center Freq
 2.500000000 GHz

Start Freq
 2.490500000 GHz

Stop Freq
 2.509500000 GHz

CF Step
 1.900000 MHz
 Auto Man

Freq Offset
 0 Hz

MSG STATUS



5.1.1.2.2.1.3 Test RB = RB25#13





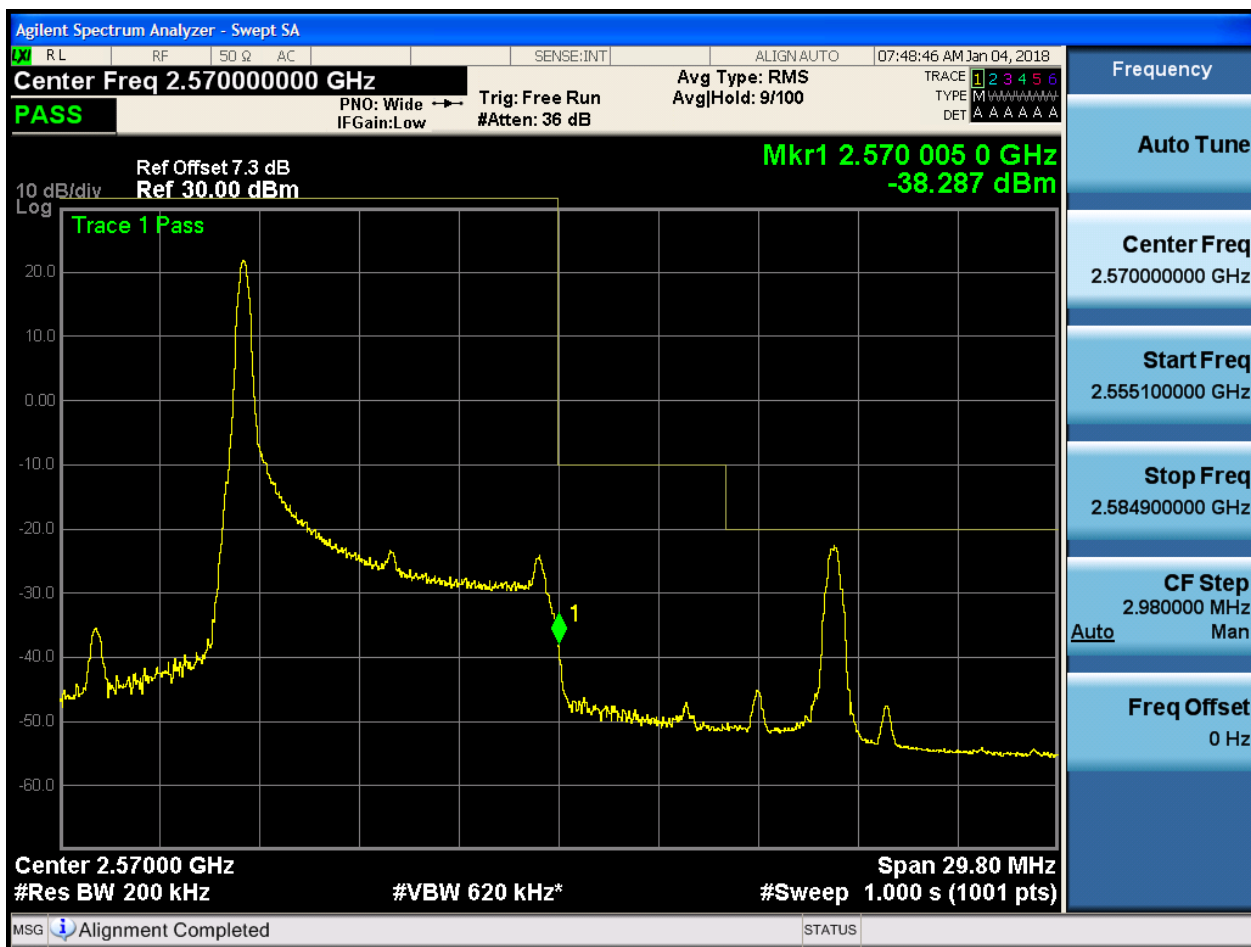
5.1.1.2.2.1.4 Test RB = RB50#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:49:04 AM Jan 04, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 200 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PASS PNO: Wide → #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 30.00 dBm

Mkr1 2.570 005 0 GHz
-18.374 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 200 kHz #VBW 620 kHz* Span 29.80 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.555100000 GHz

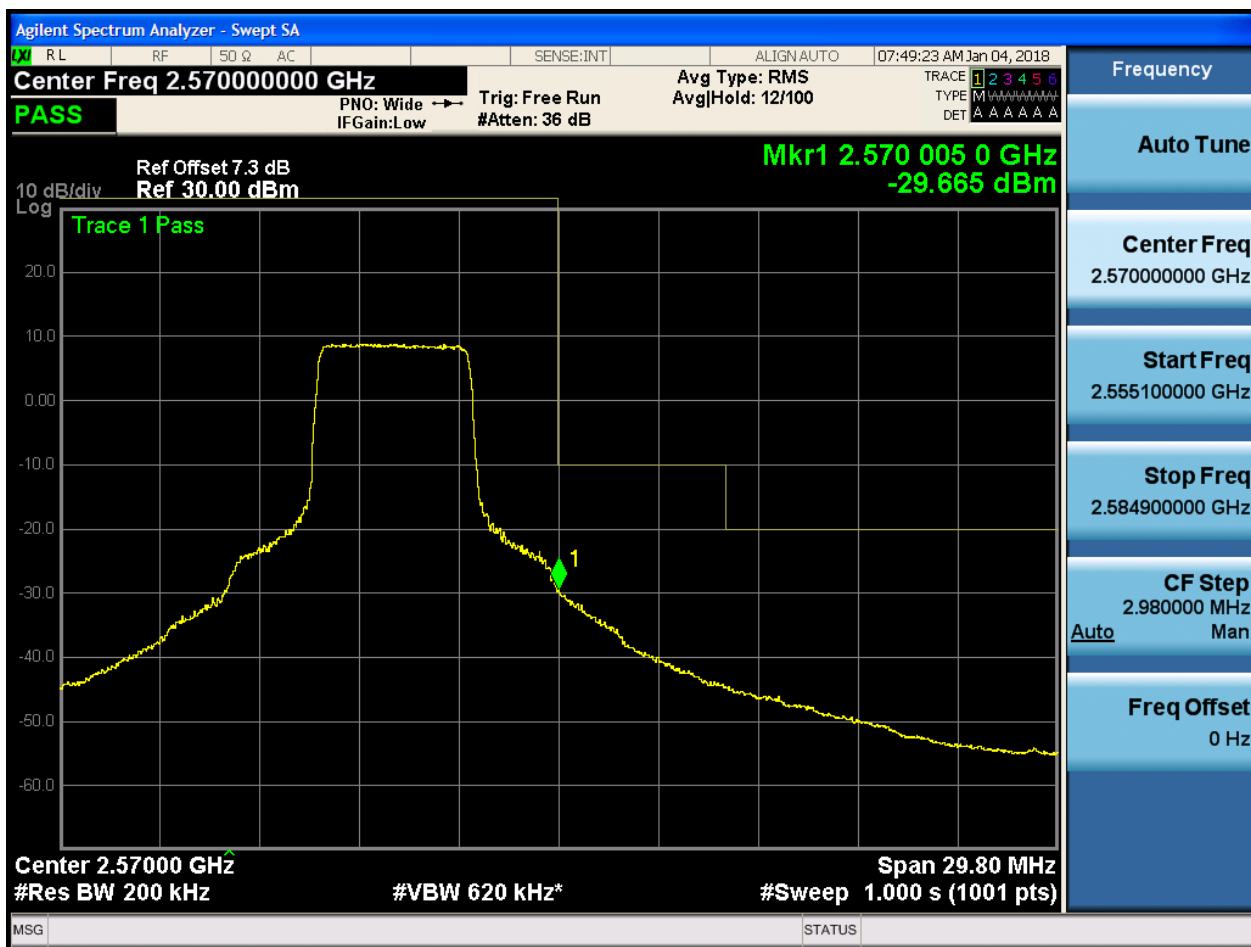
Stop Freq
2.584900000 GHz

CF Step
2.980000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.2.4 Test RB = RB50#0

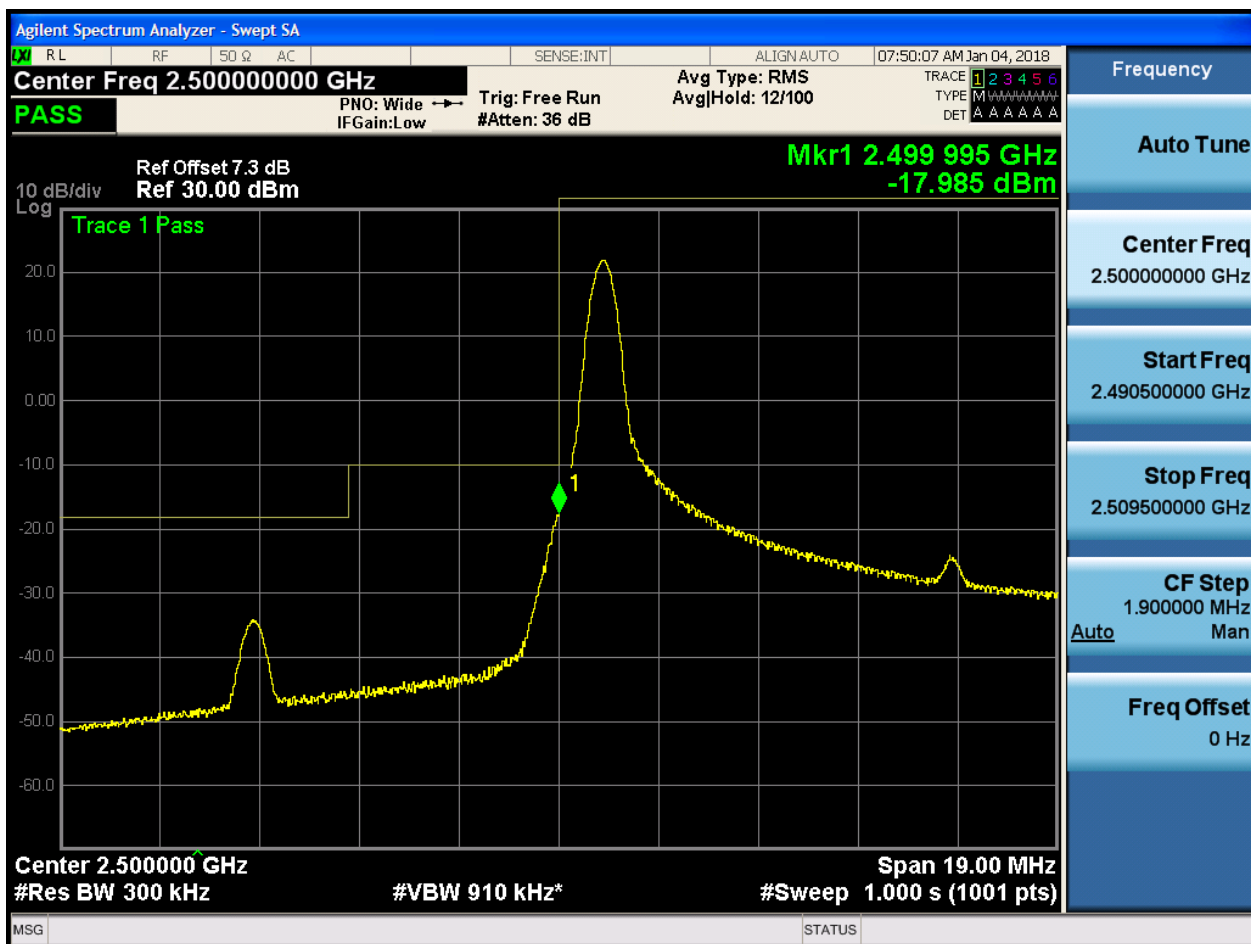




5.1.1.2.3 Test Bandwidth = 15

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-39.863 dBm

10 dB/div
Log

Trace 1 Pass

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

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

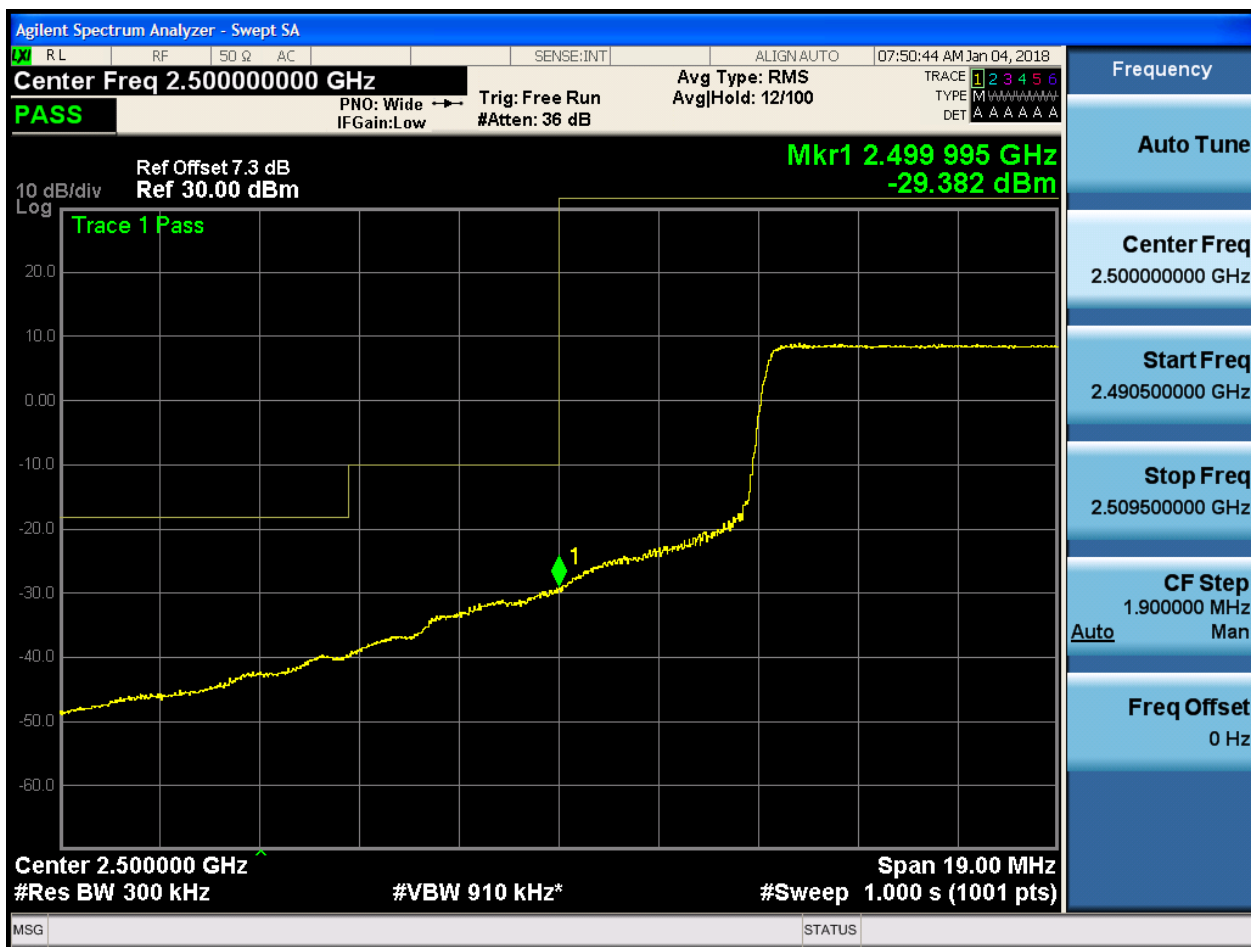
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

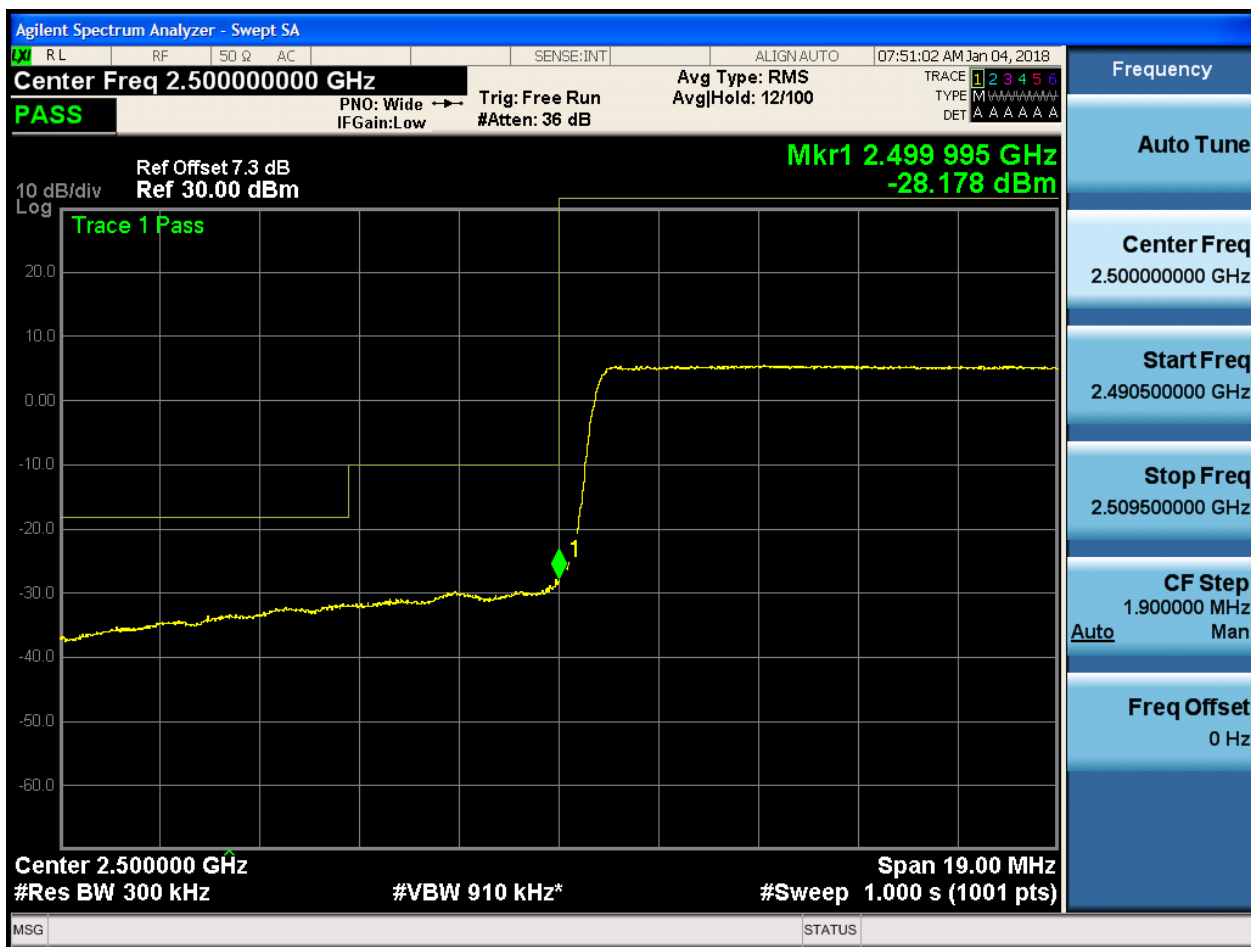


5.1.1.2.3.1.3 Test RB = RB36#18



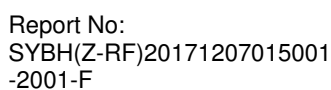


5.1.1.2.3.1.4 Test RB = RB75#0



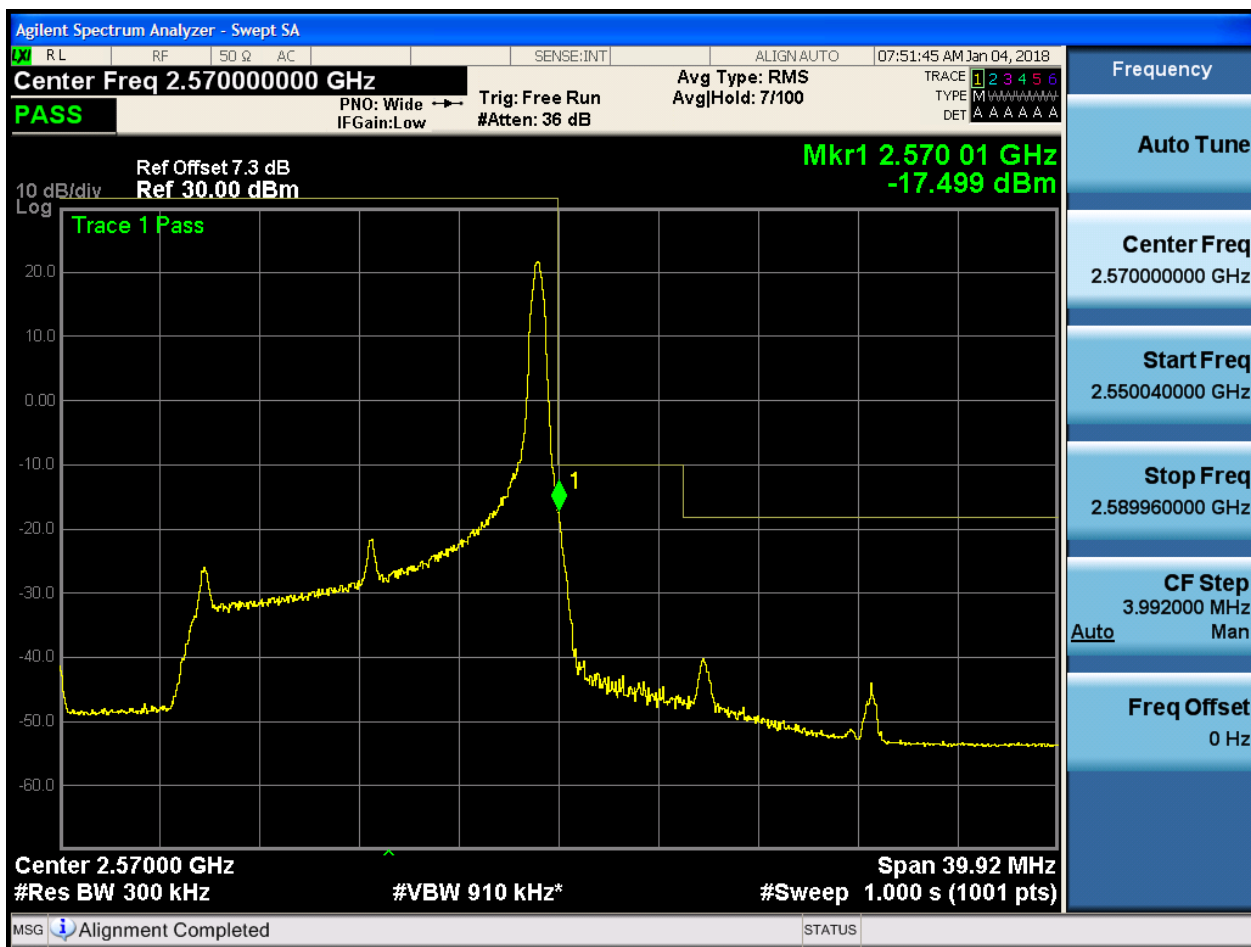


5.1.1.2.3.2.1 Test RB = RB1#0





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

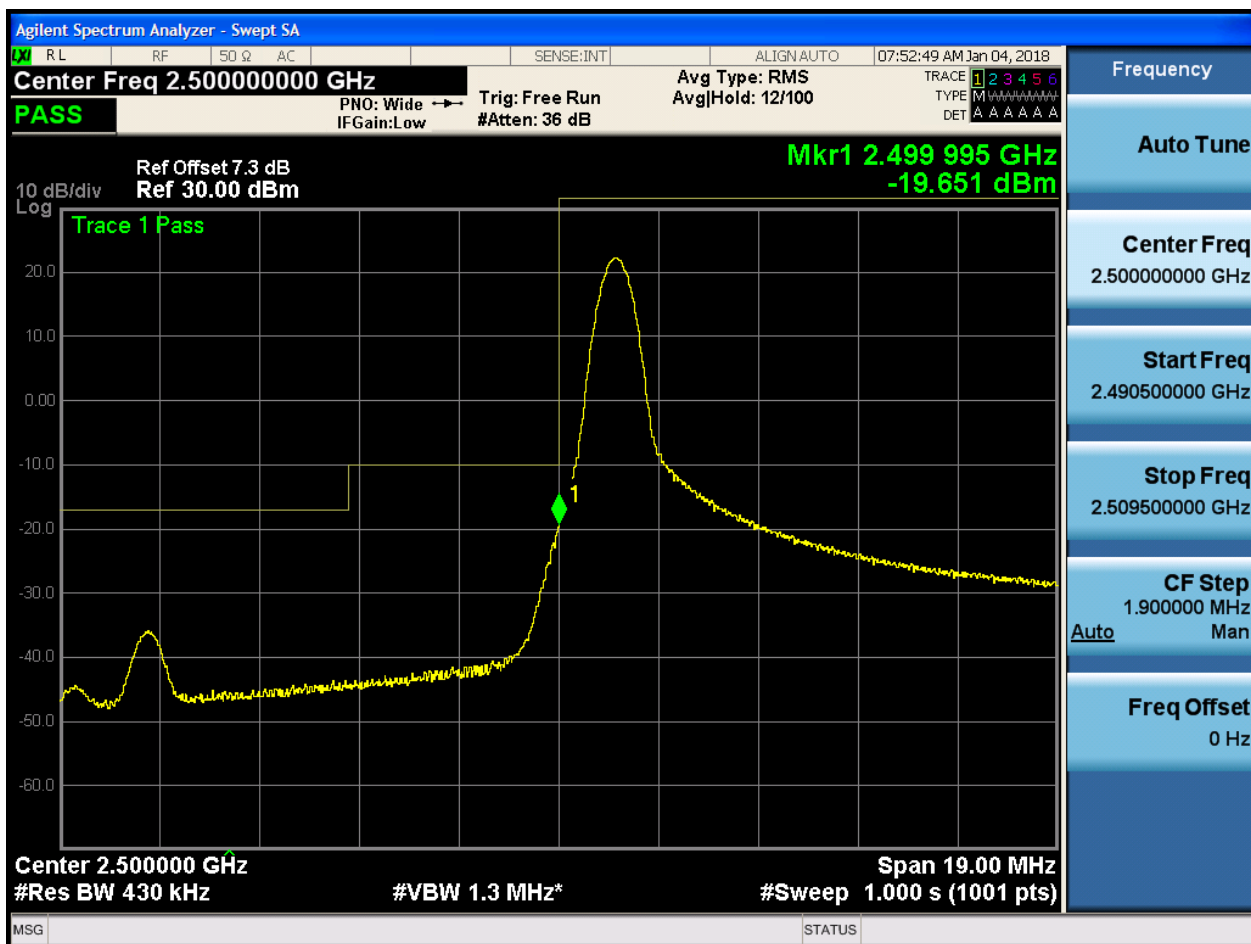




5.1.1.2.4 Test Bandwidth = 20

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:53:08 AM Jan 04, 2018

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

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

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-38.175 dBm

10 dB/div
Log

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)

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



5.1.1.2.4.1.3 Test RB = RB50#25





5.1.1.2.4.1.4 Test RB = RB100#0

