



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
BAND4	LTE/TM1	1.4	LCH	RB1#0	21.33	22.53	30	PASS
				RB1#3	21.37	22.57	30	PASS
				RB1#5	21.34	22.54	30	PASS
				RB3#0	21.53	22.73	30	PASS
				RB3#2	21.58	22.78	30	PASS
				RB3#3	21.56	22.76	30	PASS
				RB6#0	20.6	21.8	30	PASS
			MCH	RB1#0	21.27	22.47	30	PASS
				RB1#3	21.32	22.52	30	PASS
				RB1#5	21.17	22.37	30	PASS
				RB3#0	21.22	22.42	30	PASS
				RB3#2	21.21	22.41	30	PASS
				RB3#3	21.18	22.38	30	PASS
				RB6#0	20.12	21.32	30	PASS
			HCH	RB1#0	21.36	22.56	30	PASS
				RB1#3	21.47	22.67	30	PASS
				RB1#5	21.43	22.63	30	PASS
				RB3#0	21.31	22.51	30	PASS
				RB3#2	21.39	22.59	30	PASS
				RB3#3	21.39	22.59	30	PASS
				RB6#0	20.25	21.45	30	PASS
		3	LCH	RB1#0	21.22	22.42	30	PASS
				RB1#7	21.53	22.73	30	PASS
				RB1#14	21.36	22.56	30	PASS
				RB8#0	20.71	21.91	30	PASS
				RB8#4	20.61	21.81	30	PASS
				RB8#7	20.5	21.7	30	PASS
				RB15#0	20.6	21.8	30	PASS
			MCH	RB1#0	21.07	22.27	30	PASS
				RB1#7	21.34	22.54	30	PASS
				RB1#14	20.98	22.18	30	PASS

				RB8#0	20.07	21.27	30	PASS
				RB8#4	20.08	21.28	30	PASS
				RB8#7	20.03	21.23	30	PASS
				RB15#0	20	21.2	30	PASS
			HCH	RB1#0	21.25	22.45	30	PASS
				RB1#7	21.45	22.65	30	PASS
				RB1#14	21.23	22.43	30	PASS
				RB8#0	20.38	21.58	30	PASS
				RB8#4	20.27	21.47	30	PASS
				RB8#7	20.14	21.34	30	PASS
				RB15#0	20.21	21.41	30	PASS
		5	LCH	RB1#0	21.4	22.6	30	PASS
				RB1#13	21.7	22.9	30	PASS
				RB1#24	21.59	22.79	30	PASS
				RB12#0	20.66	21.86	30	PASS
				RB12#6	20.77	21.97	30	PASS
				RB12#13	20.8	22	30	PASS
				RB25#0	20.74	21.94	30	PASS
			MCH	RB1#0	21.01	22.21	30	PASS
				RB1#13	21.29	22.49	30	PASS
				RB1#24	20.76	21.96	30	PASS
				RB12#0	20.13	21.33	30	PASS
				RB12#6	20.18	21.38	30	PASS
				RB12#13	20.01	21.21	30	PASS
				RB25#0	19.96	21.16	30	PASS
			HCH	RB1#0	21.36	22.56	30	PASS
				RB1#13	21.58	22.78	30	PASS
				RB1#24	21.06	22.26	30	PASS
				RB12#0	20.44	21.64	30	PASS
				RB12#6	20.48	21.68	30	PASS
				RB12#13	20.12	21.32	30	PASS
				RB25#0	20.09	21.29	30	PASS
		10	LCH	RB1#0	21.36	22.56	30	PASS
				RB1#25	22	23.2	30	PASS
				RB1#49	21.67	22.87	30	PASS
				RB25#0	20.72	21.92	30	PASS
				RB25#13	21.05	22.25	30	PASS
				RB25#25	21.01	22.21	30	PASS
				RB50#0	20.72	21.92	30	PASS
			MCH	RB1#0	21.29	22.49	30	PASS
				RB1#25	21.39	22.59	30	PASS

				RB1#49	20.91	22.11	30	PASS
				RB25#0	20.13	21.33	30	PASS
				RB25#13	20.07	21.27	30	PASS
				RB25#25	20.03	21.23	30	PASS
				RB50#0	19.97	21.17	30	PASS
			HCH	RB1#0	21.43	22.63	30	PASS
				RB1#25	21.75	22.95	30	PASS
				RB1#49	21.12	22.32	30	PASS
				RB25#0	20.43	21.63	30	PASS
				RB25#13	20.49	21.69	30	PASS
				RB25#25	20.23	21.43	30	PASS
				RB50#0	20.18	21.38	30	PASS
		15	LCH	RB1#0	21.49	22.69	30	PASS
				RB1#38	22.22	23.42	30	PASS
				RB1#74	21.06	22.26	30	PASS
				RB38#0	20.86	22.06	30	PASS
				RB38#19	21.07	22.27	30	PASS
				RB38#39	20.75	21.95	30	PASS
				RB75#0	20.79	21.99	30	PASS
			MCH	RB1#0	21.44	22.64	30	PASS
				RB1#38	21.28	22.48	30	PASS
				RB1#74	20.68	21.88	30	PASS
				RB38#0	20.27	21.47	30	PASS
				RB38#19	20.29	21.49	30	PASS
				RB38#39	20.25	21.45	30	PASS
				RB75#0	20.12	21.32	30	PASS
			HCH	RB1#0	21.41	22.61	30	PASS
				RB1#38	21.75	22.95	30	PASS
				RB1#74	20.69	21.89	30	PASS
				RB38#0	20.52	21.72	30	PASS
				RB38#19	20.55	21.75	30	PASS
				RB38#39	20.26	21.46	30	PASS
				RB75#0	20.32	21.52	30	PASS
		20	LCH	RB1#0	21.28	22.48	30	PASS
				RB1#50	21.81	23.01	30	PASS
				RB1#99	20.93	22.13	30	PASS
				RB50#0	20.77	21.97	30	PASS
				RB50#25	20.95	22.15	30	PASS
				RB50#50	20.5	21.7	30	PASS
				RB100#0	20.09	21.29	30	PASS
			MCH	RB1#0	21.37	22.57	30	PASS

				RB1#50	21.18	22.38	30	PASS
				RB1#99	21.11	22.31	30	PASS
				RB50#0	20.15	21.35	30	PASS
				RB50#25	20.05	21.25	30	PASS
				RB50#50	20.27	21.47	30	PASS
				RB100#0	19.52	20.72	30	PASS
			HCH	RB1#0	20.73	21.93	30	PASS
				RB1#50	21.43	22.63	30	PASS
				RB1#99	20.93	22.13	30	PASS
				RB50#0	20.36	21.56	30	PASS
				RB50#25	20.45	21.65	30	PASS
				RB50#50	20.19	21.39	30	PASS
				RB100#0	19.73	20.93	30	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.01	22.21	30	PASS
				RB1#3	21.11	22.31	30	PASS
				RB1#5	20.94	22.14	30	PASS
				RB3#0	20.76	21.96	30	PASS
				RB3#2	20.72	21.92	30	PASS
				RB3#3	20.74	21.94	30	PASS
				RB6#0	20.17	21.37	30	PASS
			MCH	RB1#0	20.23	21.43	30	PASS
				RB1#3	20.53	21.73	30	PASS
				RB1#5	20.38	21.58	30	PASS
				RB3#0	20.2	21.4	30	PASS
				RB3#2	20.16	21.36	30	PASS
				RB3#3	20.14	21.34	30	PASS
				RB6#0	19.59	20.79	30	PASS
			HCH	RB1#0	20.53	21.73	30	PASS
				RB1#3	20.59	21.79	30	PASS
				RB1#5	20.56	21.76	30	PASS
				RB3#0	20.37	21.57	30	PASS
				RB3#2	20.44	21.64	30	PASS
				RB3#3	20.21	21.41	30	PASS
				RB6#0	19.74	20.94	30	PASS
		3	LCH	RB1#0	20.56	21.76	30	PASS
				RB1#7	20.79	21.99	30	PASS
				RB1#14	20.76	21.96	30	PASS
				RB8#0	20.19	21.39	30	PASS
				RB8#4	20.11	21.31	30	PASS
				RB8#7	20	21.2	30	PASS
				RB15#0	20.07	21.27	30	PASS

			MCH	RB1#0	20.26	21.46	30	PASS
				RB1#7	20.55	21.75	30	PASS
				RB1#14	20.2	21.4	30	PASS
				RB8#0	19.55	20.75	30	PASS
				RB8#4	19.59	20.79	30	PASS
				RB8#7	19.52	20.72	30	PASS
				RB15#0	19.5	20.7	30	PASS
			HCH	RB1#0	20.5	21.7	30	PASS
				RB1#7	20.65	21.85	30	PASS
				RB1#14	20.37	21.57	30	PASS
				RB8#0	19.85	21.05	30	PASS
				RB8#4	19.72	20.92	30	PASS
				RB8#7	19.67	20.87	30	PASS
				RB15#0	19.62	20.82	30	PASS
		5	LCH	RB1#0	20.82	22.02	30	PASS
				RB1#13	21.12	22.32	30	PASS
				RB1#24	20.84	22.04	30	PASS
				RB12#0	20.16	21.36	30	PASS
				RB12#6	20.22	21.42	30	PASS
				RB12#13	20.33	21.53	30	PASS
				RB25#0	20.25	21.45	30	PASS
			MCH	RB1#0	20.34	21.54	30	PASS
				RB1#13	20.63	21.83	30	PASS
				RB1#24	20.01	21.21	30	PASS
				RB12#0	19.57	20.77	30	PASS
				RB12#6	19.64	20.84	30	PASS
				RB12#13	19.43	20.63	30	PASS
				RB25#0	19.4	20.6	30	PASS
			HCH	RB1#0	20.84	22.04	30	PASS
				RB1#13	20.91	22.11	30	PASS
				RB1#24	20.39	21.59	30	PASS
				RB12#0	19.87	21.07	30	PASS
				RB12#6	19.89	21.09	30	PASS
				RB12#13	19.58	20.78	30	PASS
				RB25#0	19.52	20.72	30	PASS
		10	LCH	RB1#0	20.77	21.97	30	PASS
				RB1#25	21.16	22.36	30	PASS
				RB1#49	20.84	22.04	30	PASS
				RB25#0	20.18	21.38	30	PASS
				RB25#13	20.54	21.74	30	PASS
				RB25#25	20.43	21.63	30	PASS

				RB50#0	20.16	21.36	30	PASS
			MCH	RB1#0	20.33	21.53	30	PASS
				RB1#25	20.36	21.56	30	PASS
				RB1#49	20.05	21.25	30	PASS
				RB25#0	19.55	20.75	30	PASS
				RB25#13	19.53	20.73	30	PASS
				RB25#25	19.46	20.66	30	PASS
				RB50#0	19.42	20.62	30	PASS
			HCH	RB1#0	20.54	21.74	30	PASS
				RB1#25	20.83	22.03	30	PASS
				RB1#49	20.2	21.4	30	PASS
				RB25#0	19.86	21.06	30	PASS
				RB25#13	19.88	21.08	30	PASS
				RB25#25	19.67	20.87	30	PASS
				RB50#0	19.58	20.78	30	PASS
		15	LCH	RB1#0	20.68	21.88	30	PASS
				RB1#38	21.18	22.38	30	PASS
				RB1#74	20.14	21.34	30	PASS
				RB38#0	20.35	21.55	30	PASS
				RB38#19	20.5	21.7	30	PASS
				RB38#39	20.22	21.42	30	PASS
				RB75#0	20.25	21.45	30	PASS
			MCH	RB1#0	20.81	22.01	30	PASS
				RB1#38	20.59	21.79	30	PASS
				RB1#74	20.03	21.23	30	PASS
				RB38#0	19.68	20.88	30	PASS
				RB38#19	19.72	20.92	30	PASS
				RB38#39	19.67	20.87	30	PASS
				RB75#0	19.53	20.73	30	PASS
			HCH	RB1#0	20.59	21.79	30	PASS
				RB1#38	20.91	22.11	30	PASS
				RB1#74	19.83	21.03	30	PASS
				RB38#0	19.9	21.1	30	PASS
				RB38#19	19.91	21.11	30	PASS
				RB38#39	19.64	20.84	30	PASS
				RB75#0	19.74	20.94	30	PASS
		20	LCH	RB1#0	20.7	21.9	30	PASS
				RB1#50	21.16	22.36	30	PASS
				RB1#99	20.34	21.54	30	PASS
				RB50#0	20.24	21.44	30	PASS
				RB50#25	20.38	21.58	30	PASS

				RB50#50	19.97	21.17	30	PASS
				RB100#0	20.03	21.23	30	PASS
			MCH	RB1#0	20.59	21.79	30	PASS
				RB1#50	20.43	21.63	30	PASS
				RB1#99	20.33	21.53	30	PASS
				RB50#0	19.57	20.77	30	PASS
				RB50#25	19.48	20.68	30	PASS
				RB50#50	19.69	20.89	30	PASS
				RB100#0	19.45	20.65	30	PASS
			HCH	RB1#0	20.17	21.37	30	PASS
				RB1#50	20.77	21.97	30	PASS
				RB1#99	20.37	21.57	30	PASS
				RB50#0	19.75	20.95	30	PASS
				RB50#25	19.83	21.03	30	PASS
				RB50#50	19.58	20.78	30	PASS
				RB100#0	19.65	20.85	30	PASS

Note1:

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

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

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

b, SGP=Signal Generator Level

Note2:

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

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

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

$$\text{SET Sweep time} = \text{auto-couple.}$$

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
BAND4	LTE/TM1	1.4	LCH	RB1#0	4.32	13	PASS
				RB1#3	4.49	13	PASS
				RB1#5	4.71	13	PASS
				RB3#0	4.81	13	PASS
				RB3#2	5.04	13	PASS
				RB3#3	5.12	13	PASS
				RB6#0	5.72	13	PASS
			MCH	RB1#0	5.04	13	PASS
				RB1#3	4.93	13	PASS
				RB1#5	4.97	13	PASS
				RB3#0	5.63	13	PASS
				RB3#2	5.57	13	PASS
				RB3#3	5.64	13	PASS
				RB6#0	5.94	13	PASS
			HCH	RB1#0	5.18	13	PASS
				RB1#3	5.01	13	PASS
				RB1#5	5.07	13	PASS
				RB3#0	5.47	13	PASS
				RB3#2	5.41	13	PASS
				RB3#3	5.43	13	PASS
				RB6#0	6.04	13	PASS
		3	LCH	RB1#0	4.45	13	PASS
				RB1#7	4.58	13	PASS
				RB1#14	5.01	13	PASS
				RB8#0	5.68	13	PASS
				RB8#4	5.65	13	PASS
				RB8#7	5.66	13	PASS
				RB15#0	5.65	13	PASS
			MCH	RB1#0	5.08	13	PASS
			RB1#7	4.82	13	PASS	

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#14	5.11	13	PASS
				RB8#0	6.13	13	PASS
				RB8#4	6.16	13	PASS
				RB8#7	6.06	13	PASS
				RB15#0	6.03	13	PASS
			HCH	RB1#0	5.31	13	PASS
				RB1#7	4.96	13	PASS
				RB1#14	5.28	13	PASS
				RB8#0	5.87	13	PASS
				RB8#4	5.95	13	PASS
				RB8#7	5.88	13	PASS
				RB15#0	6.1	13	PASS
		5	LCH	RB1#0	4.56	13	PASS
				RB1#13	5.01	13	PASS
				RB1#24	5.12	13	PASS
				RB12#0	5.77	13	PASS
				RB12#6	5.6	13	PASS
				RB12#13	5.75	13	PASS
				RB25#0	5.92	13	PASS
			MCH	RB1#0	5.32	13	PASS
				RB1#13	5.38	13	PASS
				RB1#24	5.36	13	PASS
				RB12#0	6.26	13	PASS
				RB12#6	6.31	13	PASS
				RB12#13	6.24	13	PASS
				RB25#0	6.14	13	PASS
			HCH	RB1#0	5.38	13	PASS
				RB1#13	5.22	13	PASS
				RB1#24	5.35	13	PASS
				RB12#0	6.09	13	PASS
				RB12#6	6.07	13	PASS
				RB12#13	6.2	13	PASS
				RB25#0	6.06	13	PASS
		10	LCH	RB1#0	4.53	13	PASS
				RB1#25	4.54	13	PASS
				RB1#49	5.01	13	PASS
				RB25#0	6.04	13	PASS
				RB25#13	5.8	13	PASS
				RB25#25	5.77	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.29	13	PASS
				RB1#0	5.07	13	PASS
			MCH	RB1#25	5.09	13	PASS
				RB1#49	5.18	13	PASS
				RB25#0	6.06	13	PASS
				RB25#13	6.11	13	PASS
				RB25#25	5.96	13	PASS
				RB50#0	6.28	13	PASS
			HCH	RB1#0	5.21	13	PASS
				RB1#25	5.01	13	PASS
				RB1#49	4.89	13	PASS
				RB25#0	6.07	13	PASS
				RB25#13	6.12	13	PASS
				RB25#25	6.06	13	PASS
				RB50#0	6.52	13	PASS
		15	LCH	RB1#0	4.73	13	PASS
				RB1#38	4.77	13	PASS
				RB1#74	5.12	13	PASS
				RB38#0	5.95	13	PASS
				RB38#19	5.76	13	PASS
				RB38#39	6.01	13	PASS
				RB75#0	6.41	13	PASS
			MCH	RB1#0	5.09	13	PASS
				RB1#38	5.31	13	PASS
				RB1#74	5.47	13	PASS
				RB38#0	6.24	13	PASS
				RB38#19	6.34	13	PASS
				RB38#39	6.2	13	PASS
				RB75#0	6.51	13	PASS
			HCH	RB1#0	5.19	13	PASS
				RB1#38	5.09	13	PASS
				RB1#74	5.36	13	PASS
				RB38#0	6.14	13	PASS
				RB38#19	6.08	13	PASS
				RB38#39	6.07	13	PASS
				RB75#0	6.45	13	PASS
		20	LCH	RB1#0	5.24	13	PASS
				RB1#50	4.99	13	PASS
				RB1#99	5.59	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.03	13	PASS
				RB50#25	5.9	13	PASS
				RB50#50	6.07	13	PASS
				RB100#0	6.3	13	PASS
			MCH	RB1#0	5.7	13	PASS
				RB1#50	5.66	13	PASS
				RB1#99	5.79	13	PASS
				RB50#0	6.17	13	PASS
				RB50#25	6.22	13	PASS
				RB50#50	6.09	13	PASS
				RB100#0	6.42	13	PASS
			HCH	RB1#0	5.66	13	PASS
				RB1#50	5.29	13	PASS
				RB1#99	5.49	13	PASS
				RB50#0	6.19	13	PASS
				RB50#25	6.14	13	PASS
				RB50#50	6.22	13	PASS
				RB100#0	6.52	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.16	13	PASS
				RB1#3	5.34	13	PASS
				RB1#5	5.51	13	PASS
				RB3#0	5.53	13	PASS
				RB3#2	5.61	13	PASS
				RB3#3	5.71	13	PASS
				RB6#0	6.35	13	PASS
			MCH	RB1#0	5.96	13	PASS
				RB1#3	5.93	13	PASS
				RB1#5	6	13	PASS
				RB3#0	6.44	13	PASS
				RB3#2	6.47	13	PASS
				RB3#3	6.48	13	PASS
				RB6#0	6.55	13	PASS
			HCH	RB1#0	5.48	13	PASS
				RB1#3	5.59	13	PASS
				RB1#5	5.47	13	PASS
				RB3#0	6.29	13	PASS
				RB3#2	6.39	13	PASS
				RB3#3	6.3	13	PASS
				RB6#0	6.85	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		3	LCH	RB1#0	5.21	13	PASS
				RB1#7	5.47	13	PASS
				RB1#14	5.83	13	PASS
				RB8#0	6.35	13	PASS
				RB8#4	6.41	13	PASS
				RB8#7	6.36	13	PASS
				RB15#0	6.64	13	PASS
			MCH	RB1#0	6.23	13	PASS
				RB1#7	5.83	13	PASS
				RB1#14	6.33	13	PASS
				RB8#0	6.64	13	PASS
				RB8#4	6.73	13	PASS
				RB8#7	6.61	13	PASS
				RB15#0	6.7	13	PASS
			HCH	RB1#0	5.66	13	PASS
				RB1#7	5.46	13	PASS
				RB1#14	5.76	13	PASS
				RB8#0	6.35	13	PASS
				RB8#4	6.55	13	PASS
				RB8#7	6.46	13	PASS
				RB15#0	6.57	13	PASS
		5	LCH	RB1#0	5.29	13	PASS
				RB1#13	5.87	13	PASS
				RB1#24	5.81	13	PASS
				RB12#0	6.36	13	PASS
				RB12#6	6.36	13	PASS
				RB12#13	6.29	13	PASS
				RB25#0	6.42	13	PASS
			MCH	RB1#0	5.78	13	PASS
				RB1#13	5.83	13	PASS
				RB1#24	5.88	13	PASS
				RB12#0	6.61	13	PASS
				RB12#6	6.69	13	PASS
				RB12#13	6.63	13	PASS
				RB25#0	7.21	13	PASS
			HCH	RB1#0	5.82	13	PASS
				RB1#13	5.71	13	PASS
				RB1#24	5.71	13	PASS
				RB12#0	6.89	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB12#6	6.51	13	PASS
				RB12#13	6.41	13	PASS
				RB25#0	6.87	13	PASS
			LCH	RB1#0	5.24	13	PASS
				RB1#25	5.53	13	PASS
				RB1#49	5.79	13	PASS
				RB25#0	6.54	13	PASS
				RB25#13	6.36	13	PASS
				RB25#25	6.28	13	PASS
				RB50#0	6.85	13	PASS
		10	MCH	RB1#0	5.83	13	PASS
				RB1#25	5.93	13	PASS
				RB1#49	5.87	13	PASS
				RB25#0	6.65	13	PASS
				RB25#13	6.81	13	PASS
				RB25#25	6.56	13	PASS
				RB50#0	7.02	13	PASS
			HCH	RB1#0	5.6	13	PASS
				RB1#25	5.57	13	PASS
				RB1#49	5.68	13	PASS
				RB25#0	6.82	13	PASS
				RB25#13	6.76	13	PASS
				RB25#25	6.56	13	PASS
				RB50#0	7.02	13	PASS
		15	LCH	RB1#0	5.37	13	PASS
				RB1#38	5.66	13	PASS
				RB1#74	6.06	13	PASS
				RB38#0	6.53	13	PASS
				RB38#19	6.41	13	PASS
				RB38#39	6.64	13	PASS
				RB75#0	7.12	13	PASS
			MCH	RB1#0	6.11	13	PASS
				RB1#38	6.37	13	PASS
				RB1#74	6.44	13	PASS
				RB38#0	6.82	13	PASS
				RB38#19	6.97	13	PASS
				RB38#39	6.7	13	PASS
				RB75#0	7.13	13	PASS
			HCH	RB1#0	5.67	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#38	5.5	13	PASS
				RB1#74	5.73	13	PASS
				RB38#0	6.95	13	PASS
				RB38#19	6.97	13	PASS
				RB38#39	6.64	13	PASS
				RB75#0	7.24	13	PASS
		20	LCH	RB1#0	5.71	13	PASS
				RB1#50	5.65	13	PASS
				RB1#99	6.28	13	PASS
				RB50#0	6.68	13	PASS
				RB50#25	6.61	13	PASS
				RB50#50	6.92	13	PASS
				RB100#0	7	13	PASS
			MCH	RB1#0	6.21	13	PASS
				RB1#50	6.29	13	PASS
				RB1#99	6.48	13	PASS
				RB50#0	6.86	13	PASS
				RB50#25	7.09	13	PASS
				RB50#50	6.75	13	PASS
				RB100#0	7.18	13	PASS
			HCH	RB1#0	6.53	13	PASS
				RB1#50	6.1	13	PASS
				RB1#99	6.39	13	PASS
				RB50#0	6.96	13	PASS
				RB50#25	6.92	13	PASS
				RB50#50	7.03	13	PASS
				RB100#0	7.44	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

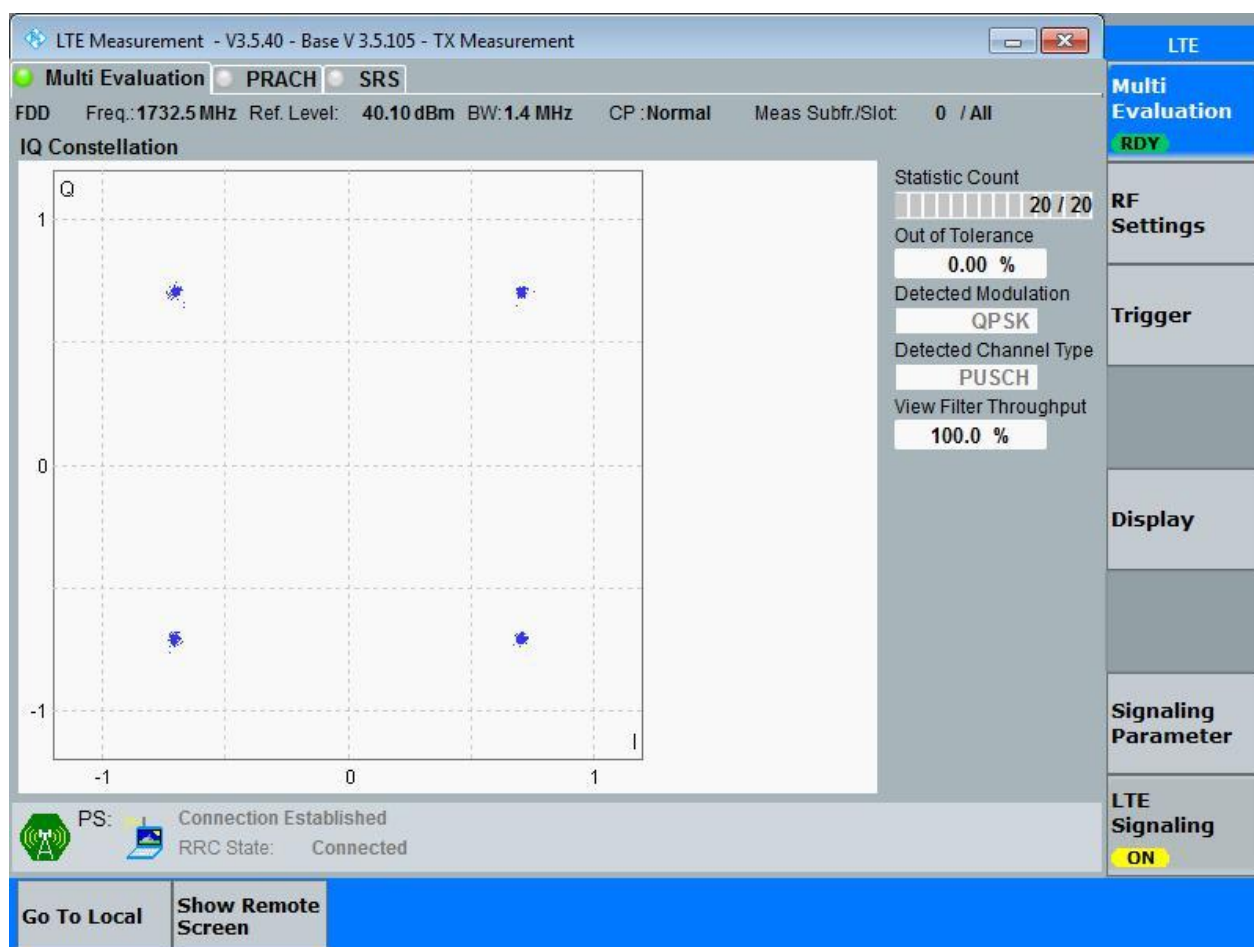
3.1.1 Test Band = BAND4

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

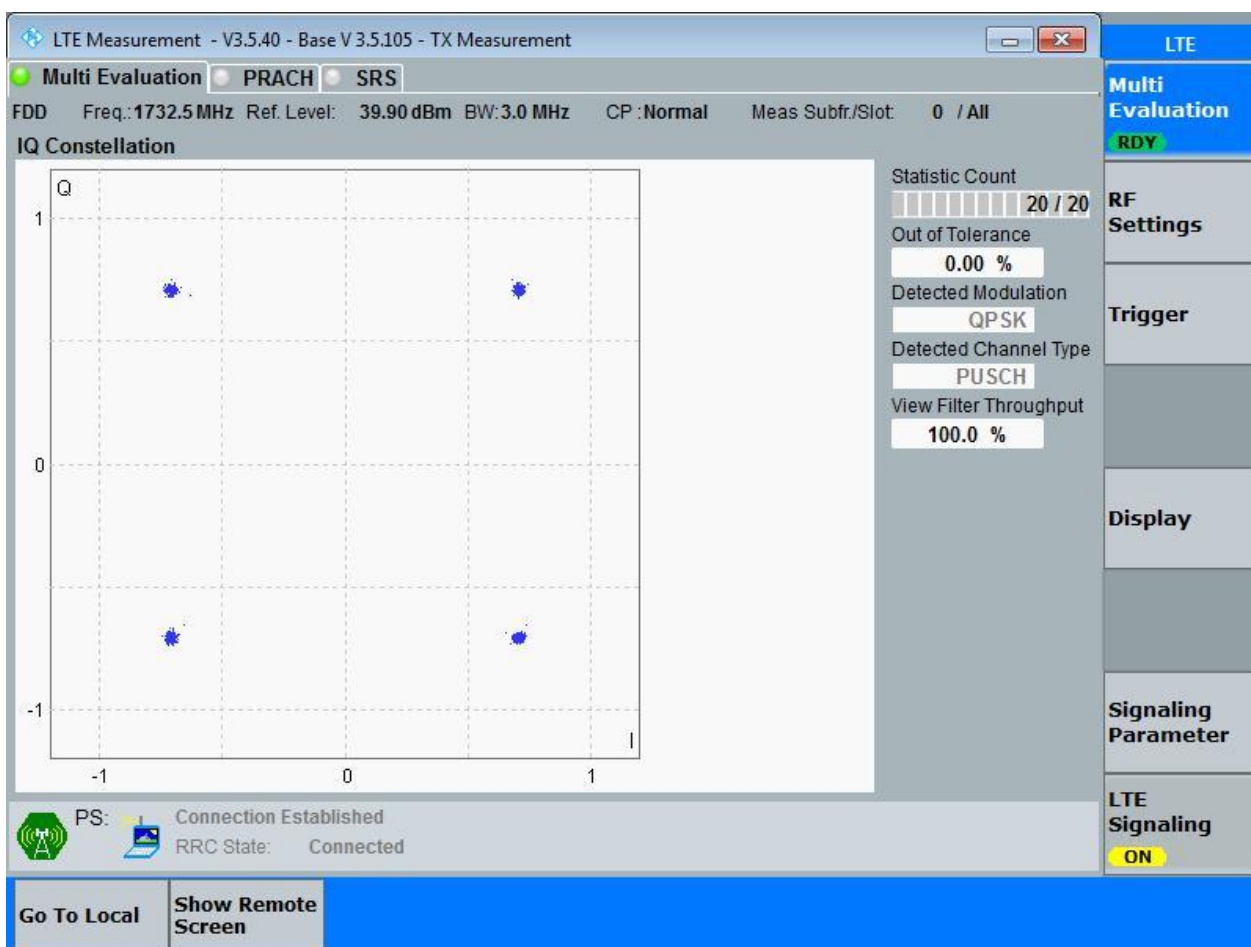
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

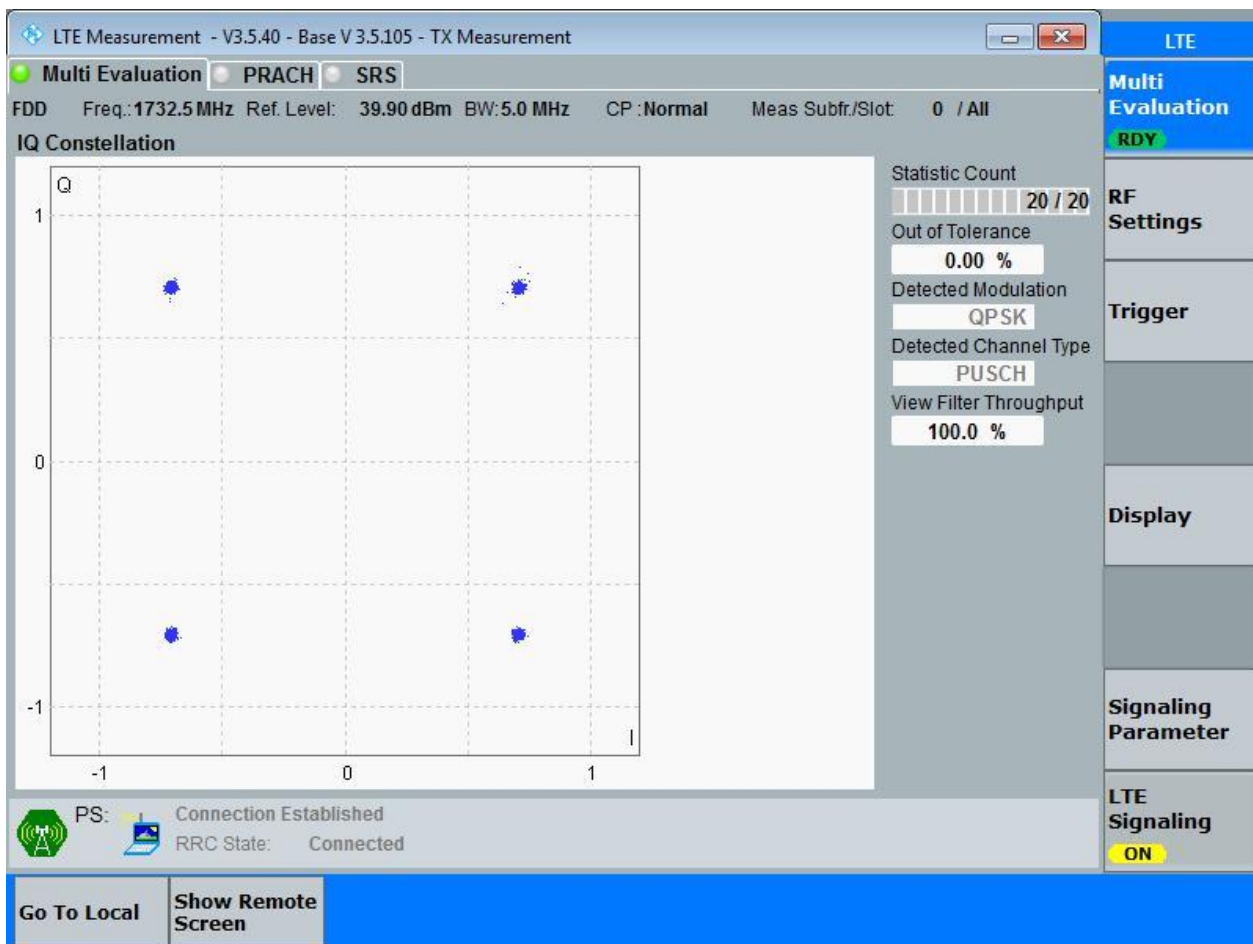
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

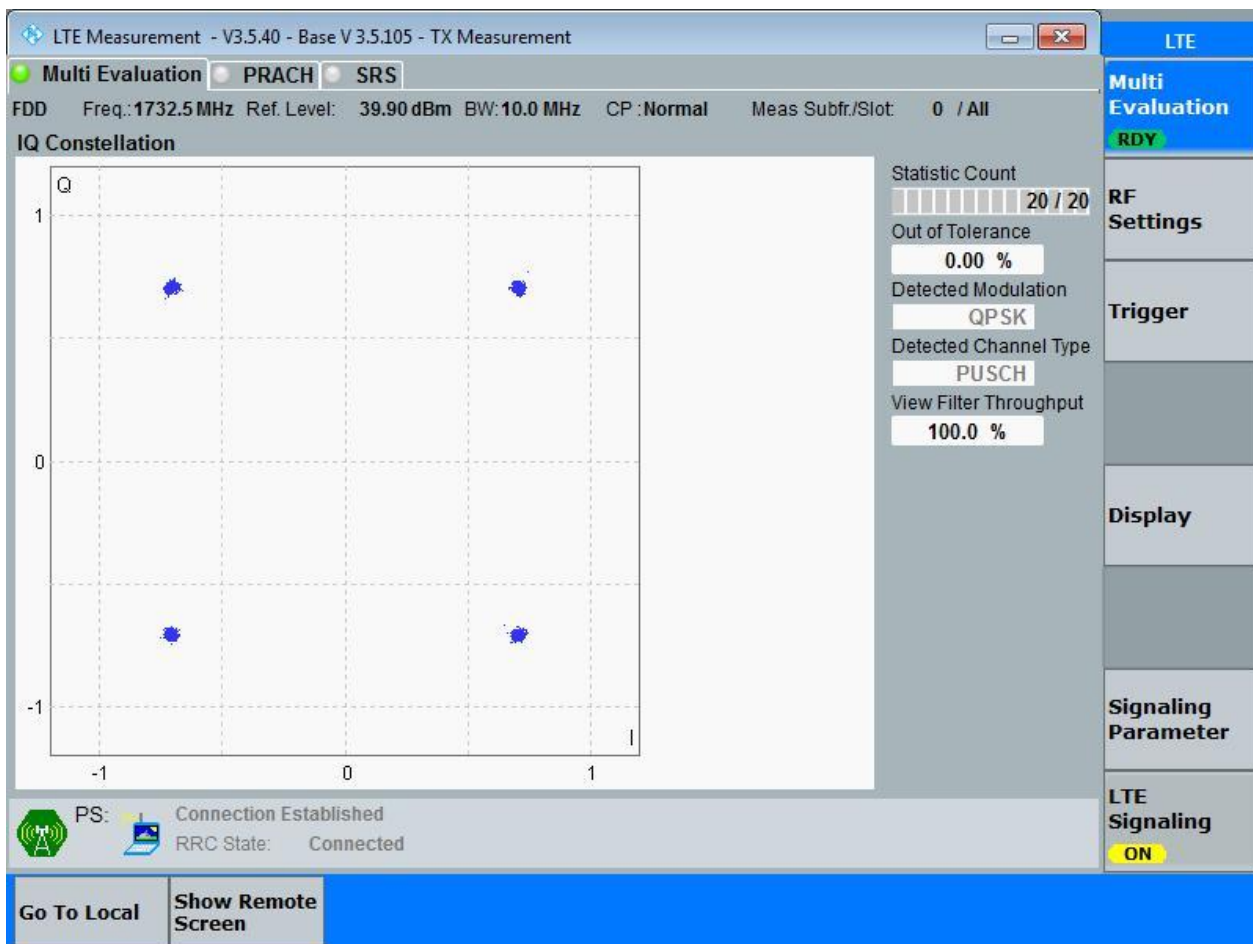
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

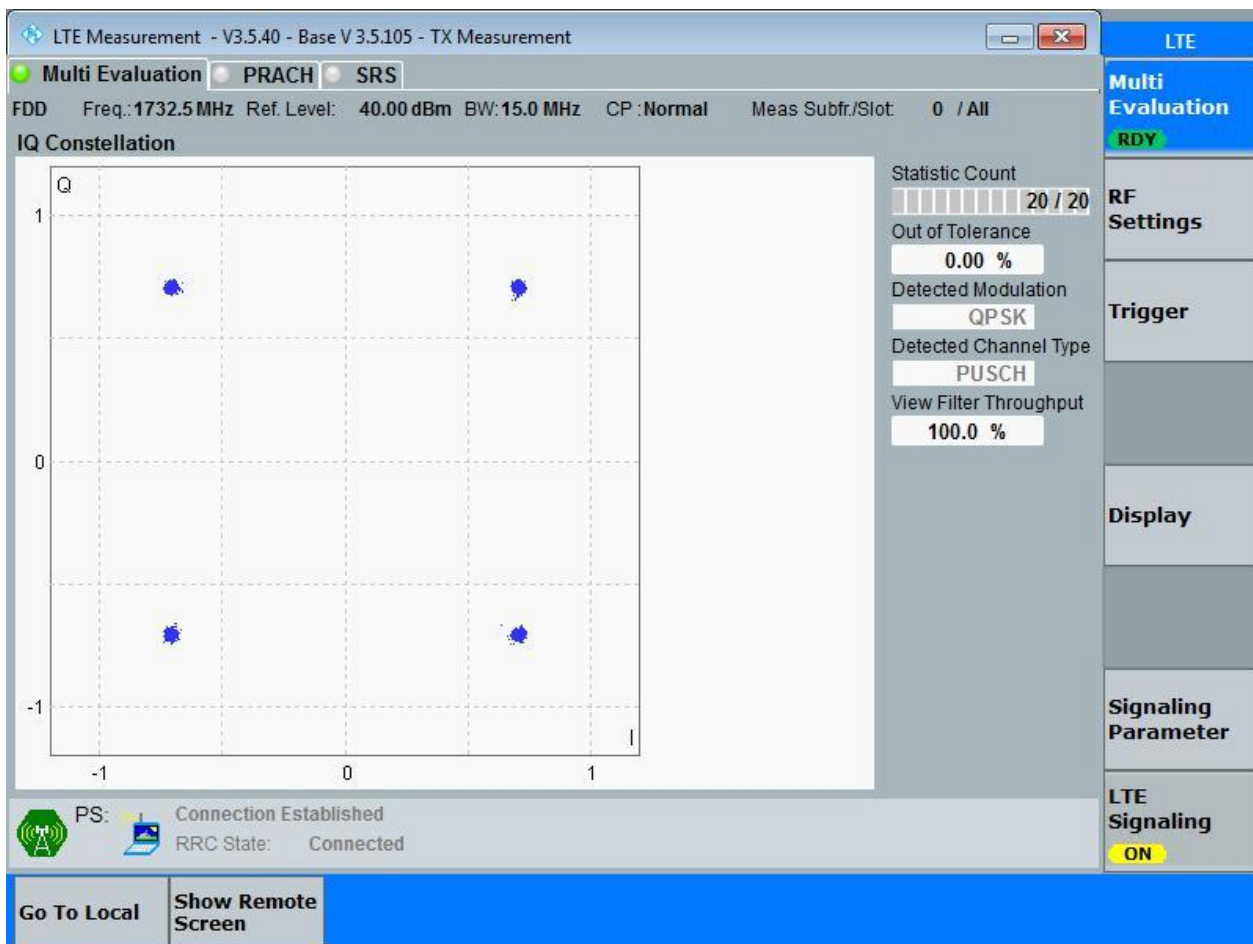
3.1.1.1.4.1.1 Test RB = RB50#0



3.1.1.1.5 Test Bandwidth = 15

3.1.1.1.5.1 Test Channel = MCH

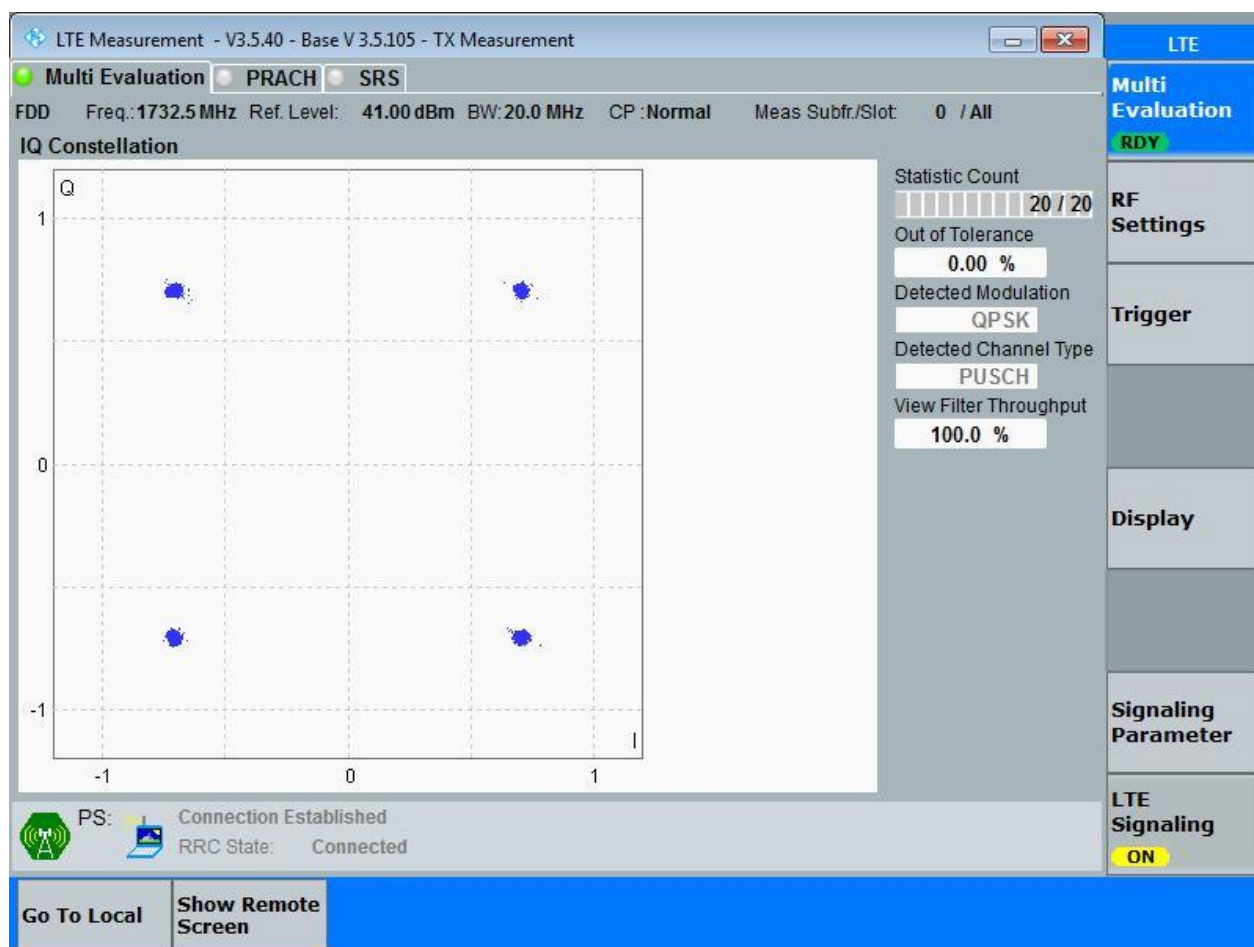
3.1.1.1.5.1.1 Test RB = RB75#0



3.1.1.1.6 Test Bandwidth = 20

3.1.1.1.6.1 Test Channel = MCH

3.1.1.1.6.1.1 Test RB = RB100#0

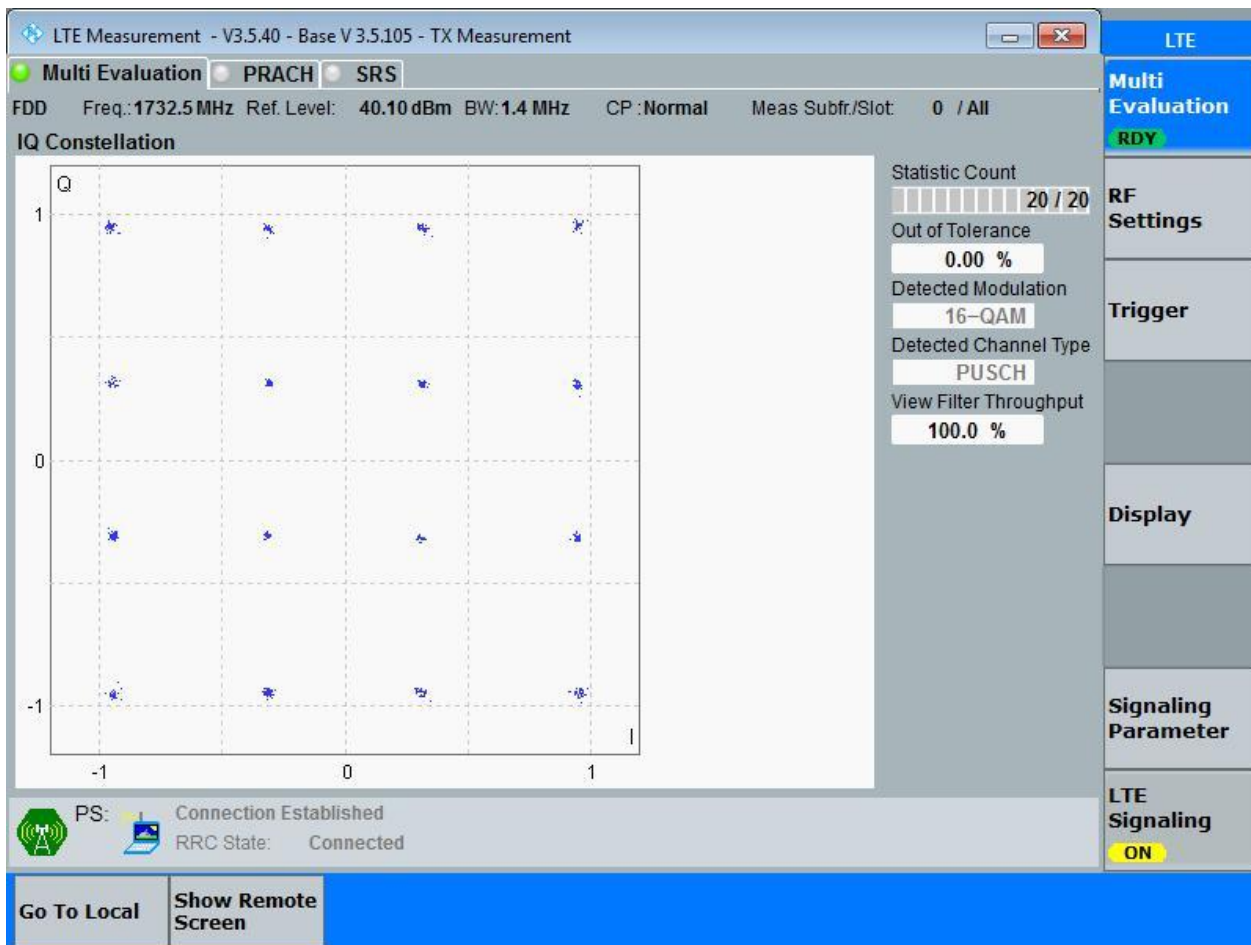


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

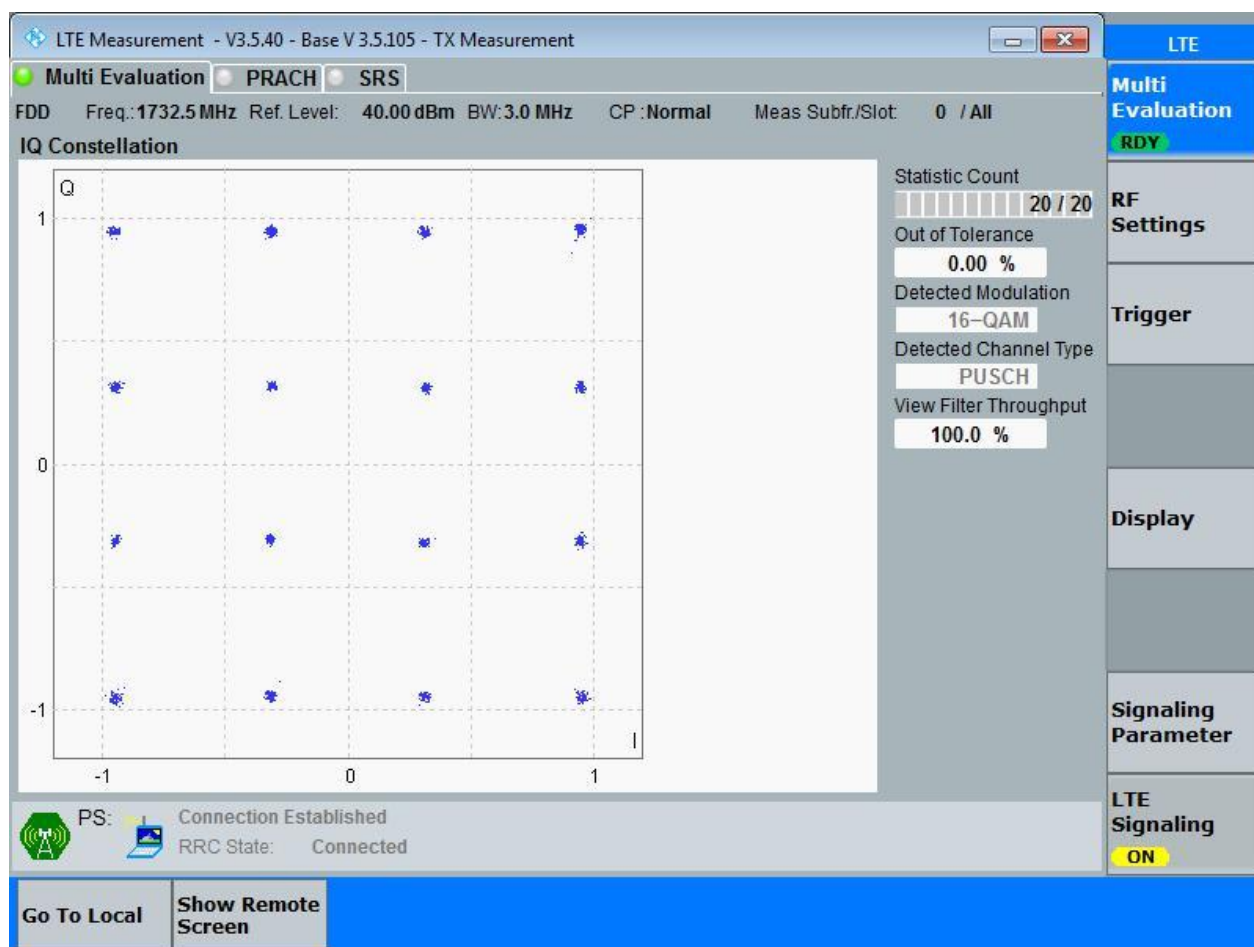
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

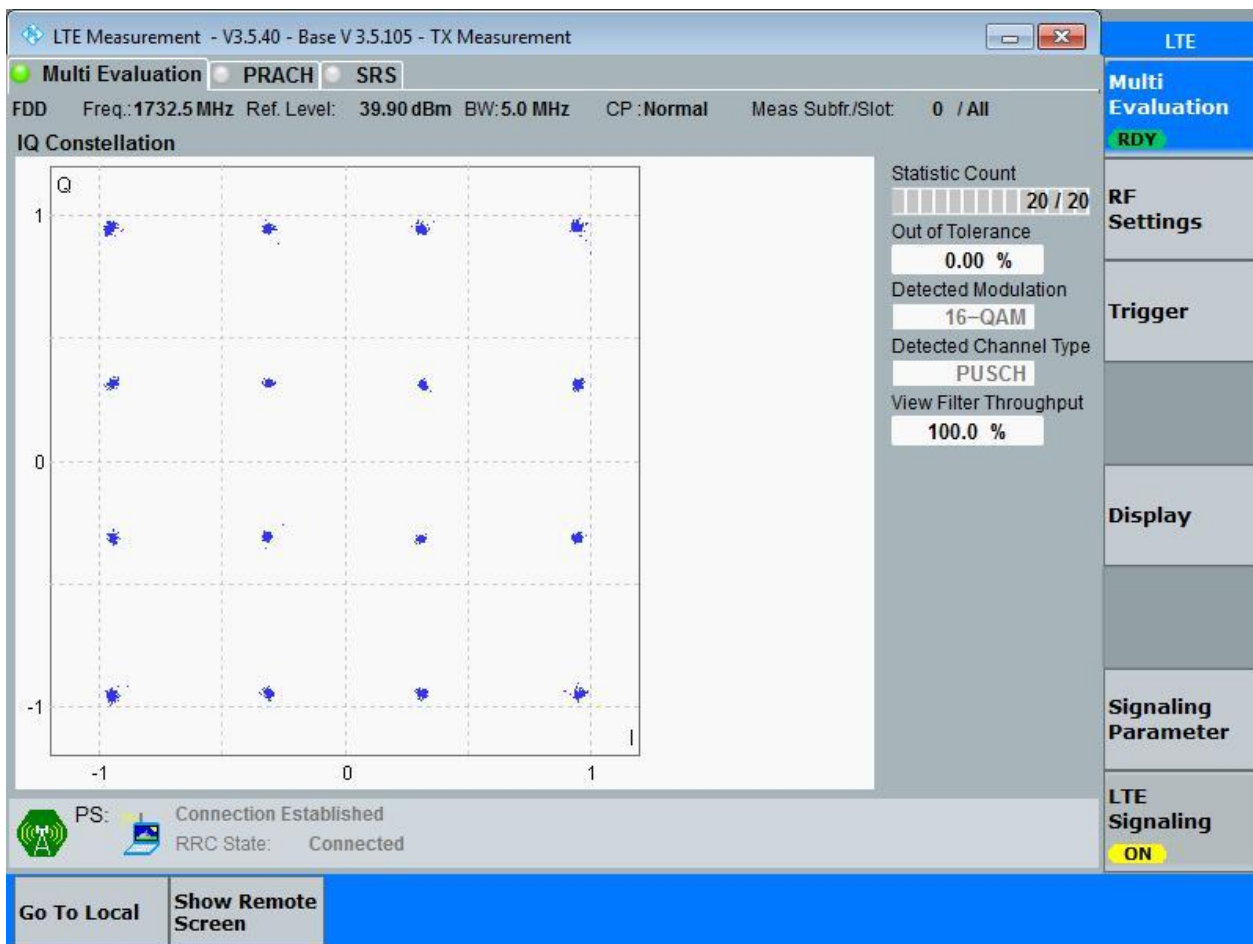
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

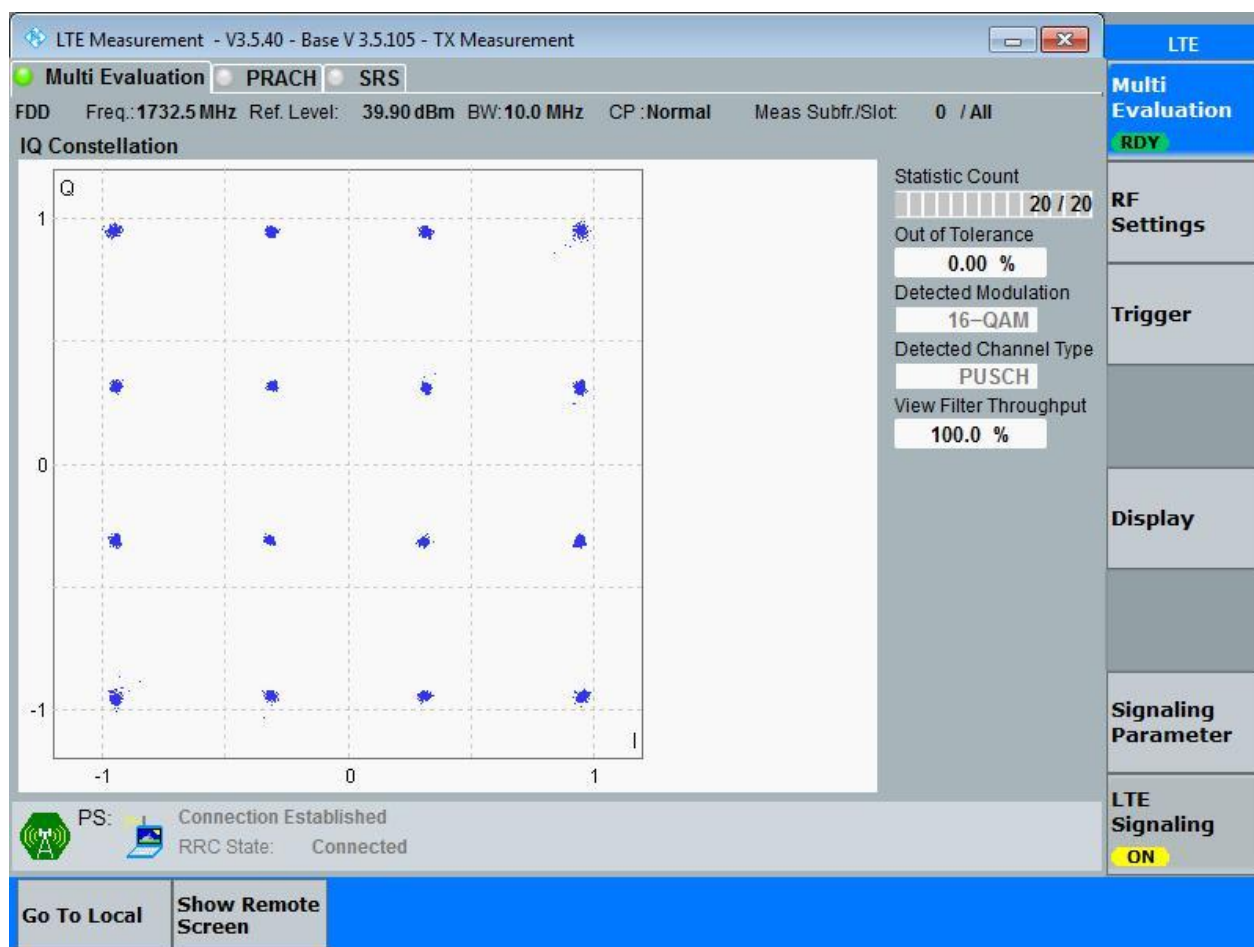
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

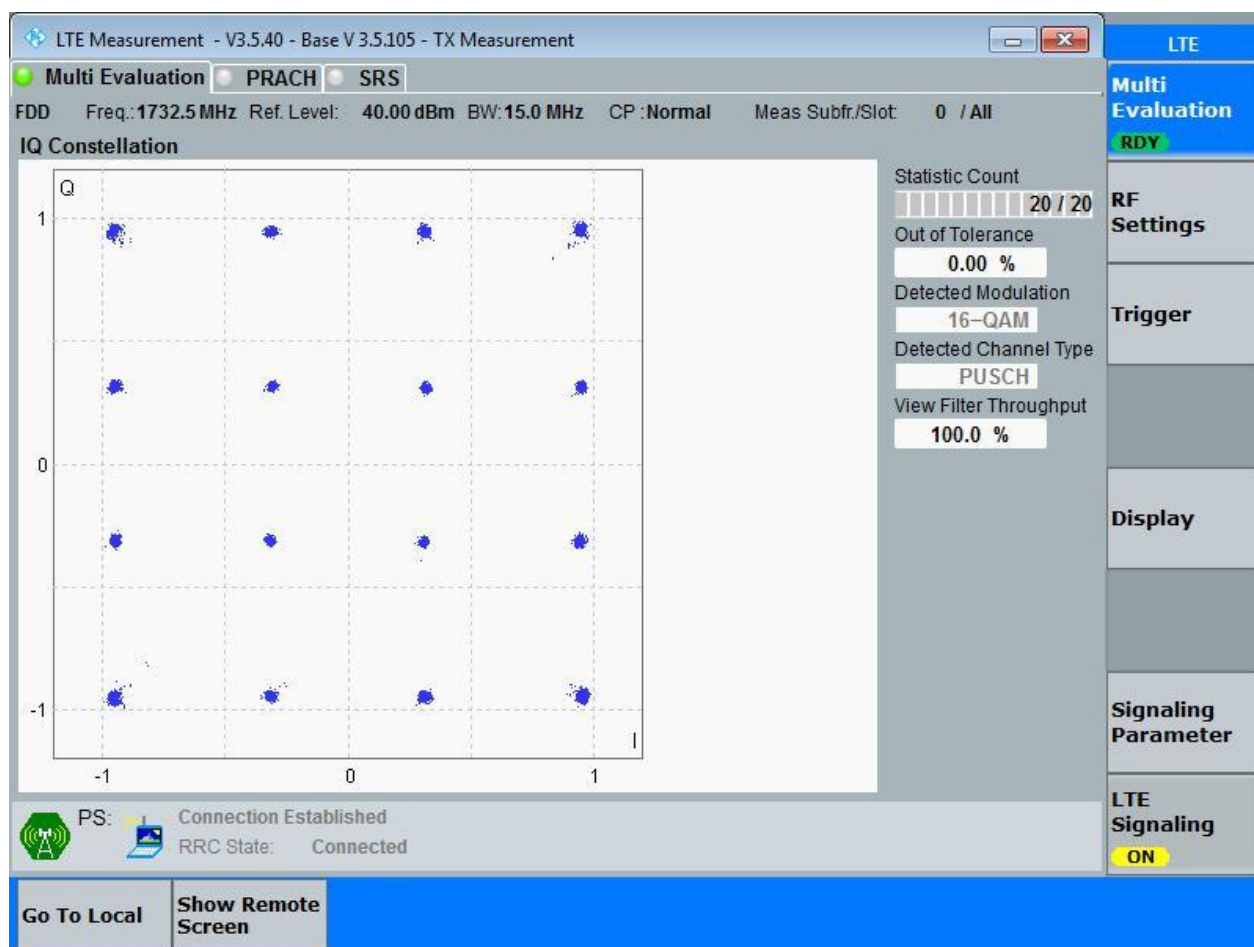
3.1.1.2.4.1.1 Test RB = RB50#0



3.1.1.2.5 Test Bandwidth = 15

3.1.1.2.5.1 Test Channel = MCH

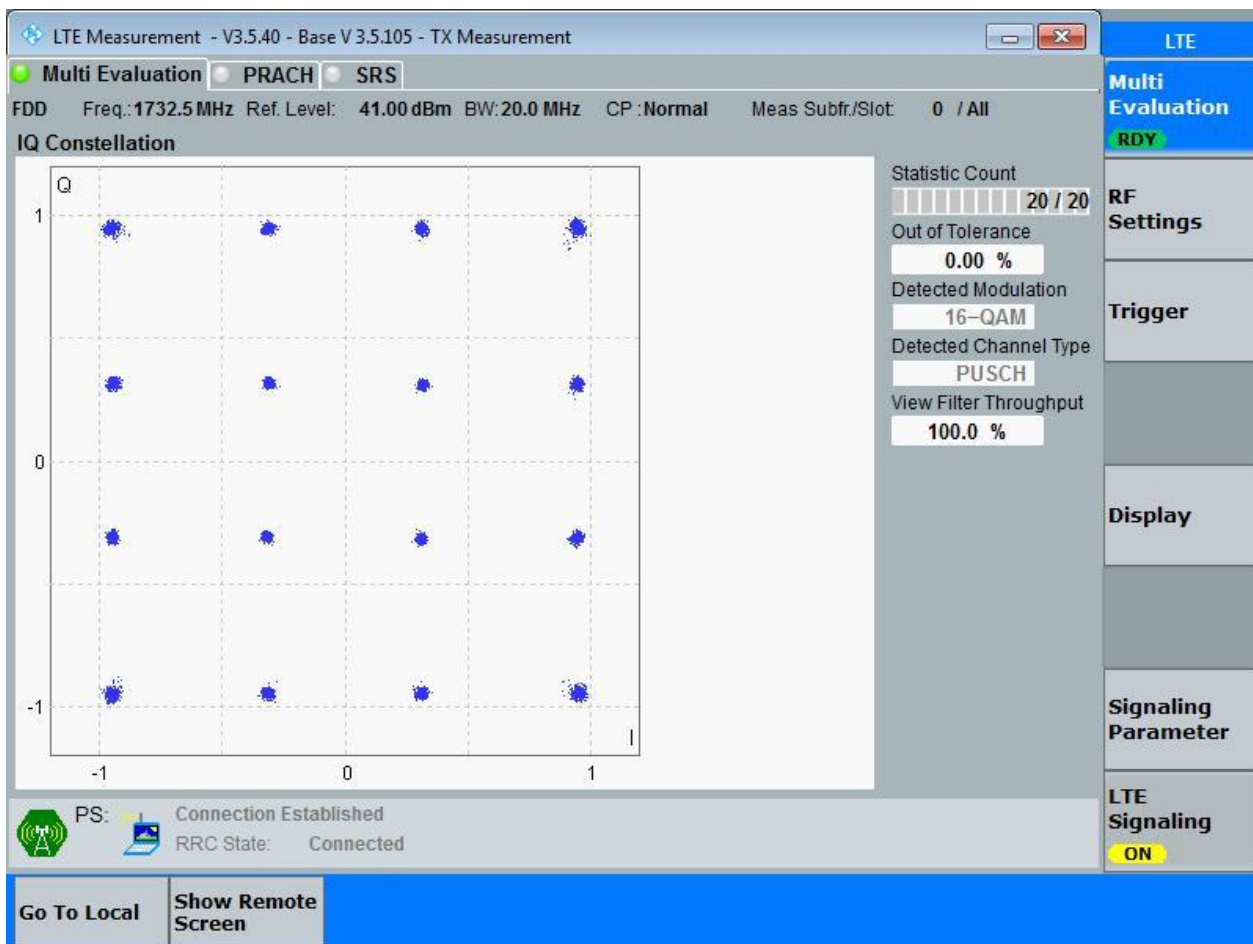
3.1.1.2.5.1.1 Test RB = RB75#0



3.1.1.2.6 Test Bandwidth = 20

3.1.1.2.6.1 Test Channel = MCH

3.1.1.2.6.1.1 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
BAND4	LTE/TM1	1.4	LCH	RB6#0	1.09	1.23	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.95	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.71	2.93	Pass
		5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.50	4.86	Pass
			HCH	RB25#0	4.50	4.90	Pass
		10	LCH	RB50#0	9.02	9.65	Pass
			MCH	RB50#0	8.98	9.61	Pass
			HCH	RB50#0	9.00	9.62	Pass
		15	LCH	RB75#0	13.52	14.43	Pass
			MCH	RB75#0	13.47	14.36	Pass
			HCH	RB75#0	13.49	14.39	Pass
		20	LCH	RB100#0	17.99	19.08	Pass
			MCH	RB100#0	17.95	19.07	Pass
			HCH	RB100#0	17.97	19.11	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.22	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.22	Pass
		3	LCH	RB15#0	2.71	2.93	Pass
			MCH	RB15#0	2.71	2.94	Pass
			HCH	RB15#0	2.71	2.93	Pass
		5	LCH	RB25#0	4.50	4.86	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	9.00	9.64	Pass
			MCH	RB50#0	8.98	9.64	Pass
			HCH	RB50#0	8.98	9.64	Pass

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		15	LCH	RB75#0	13.52	14.45	Pass
			MCH	RB75#0	13.47	14.33	Pass
			HCH	RB75#0	13.48	14.39	Pass
		20	LCH	RB100#0	17.99	19.10	Pass
			MCH	RB100#0	17.94	19.04	Pass
			HCH	RB100#0	17.96	19.08	Pass



Part II - Test Plots

4.1 For LTE

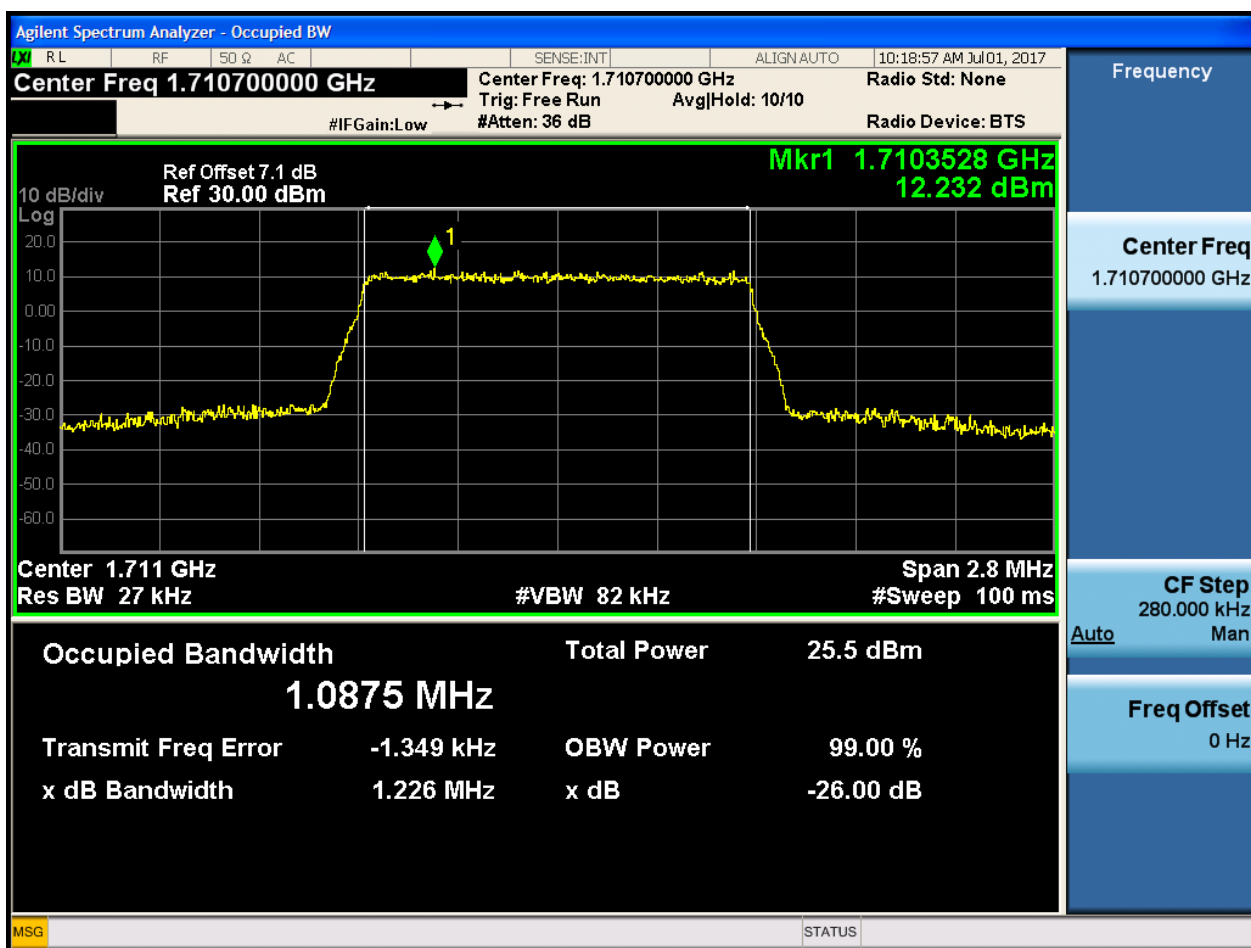
4.1.1 Test Band = BAND4

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

4.1.1.1.1.1 Test Channel = LCH

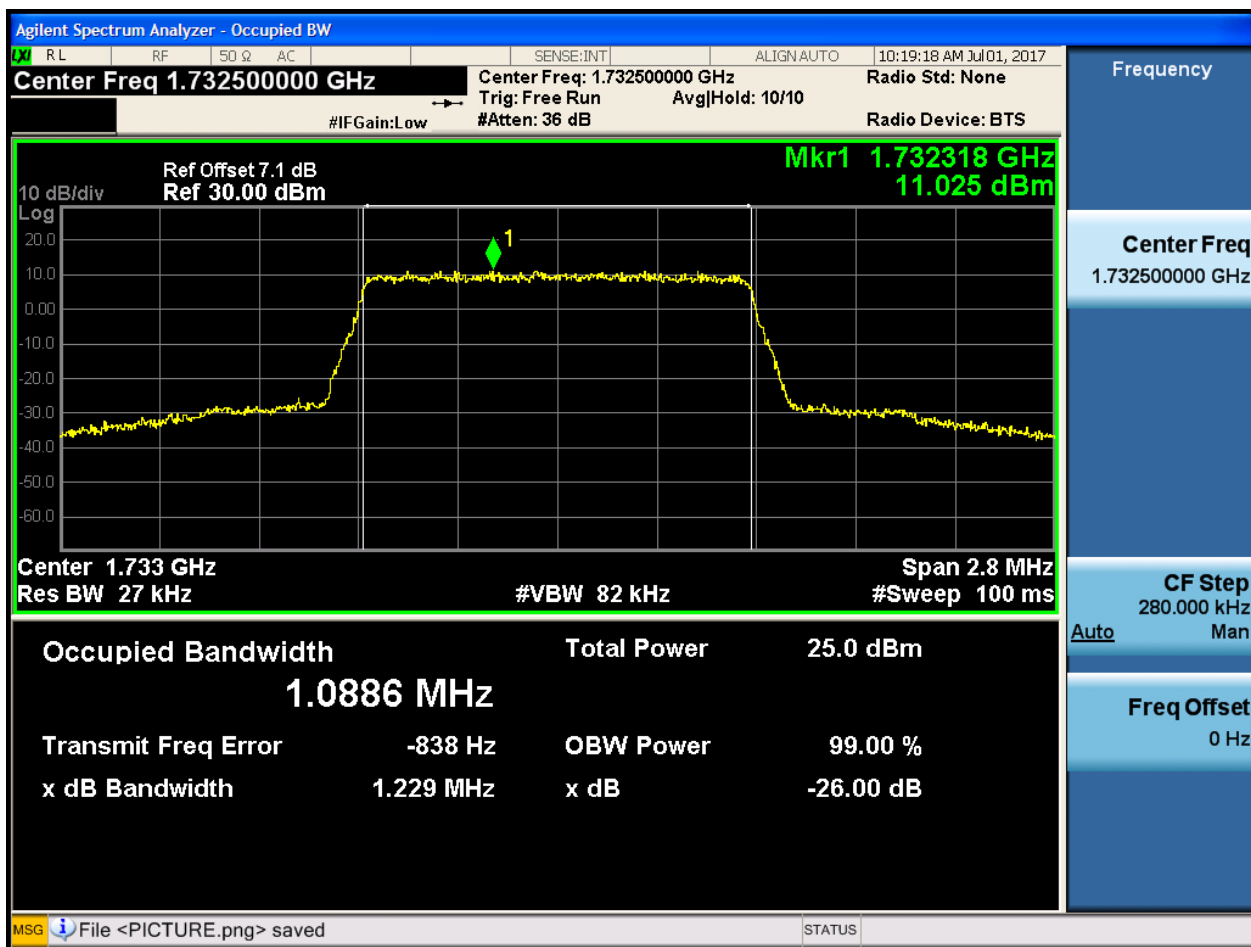
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

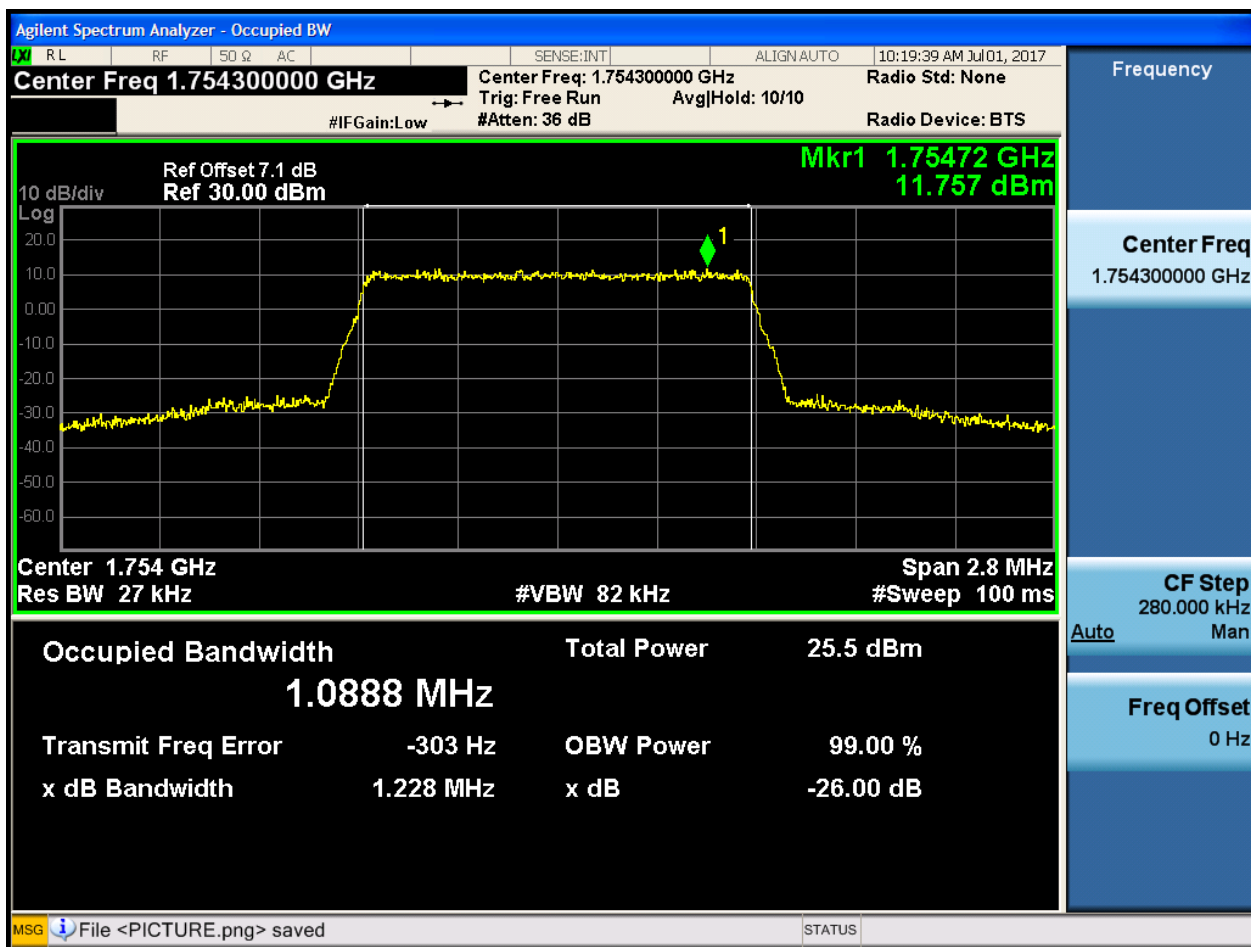
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

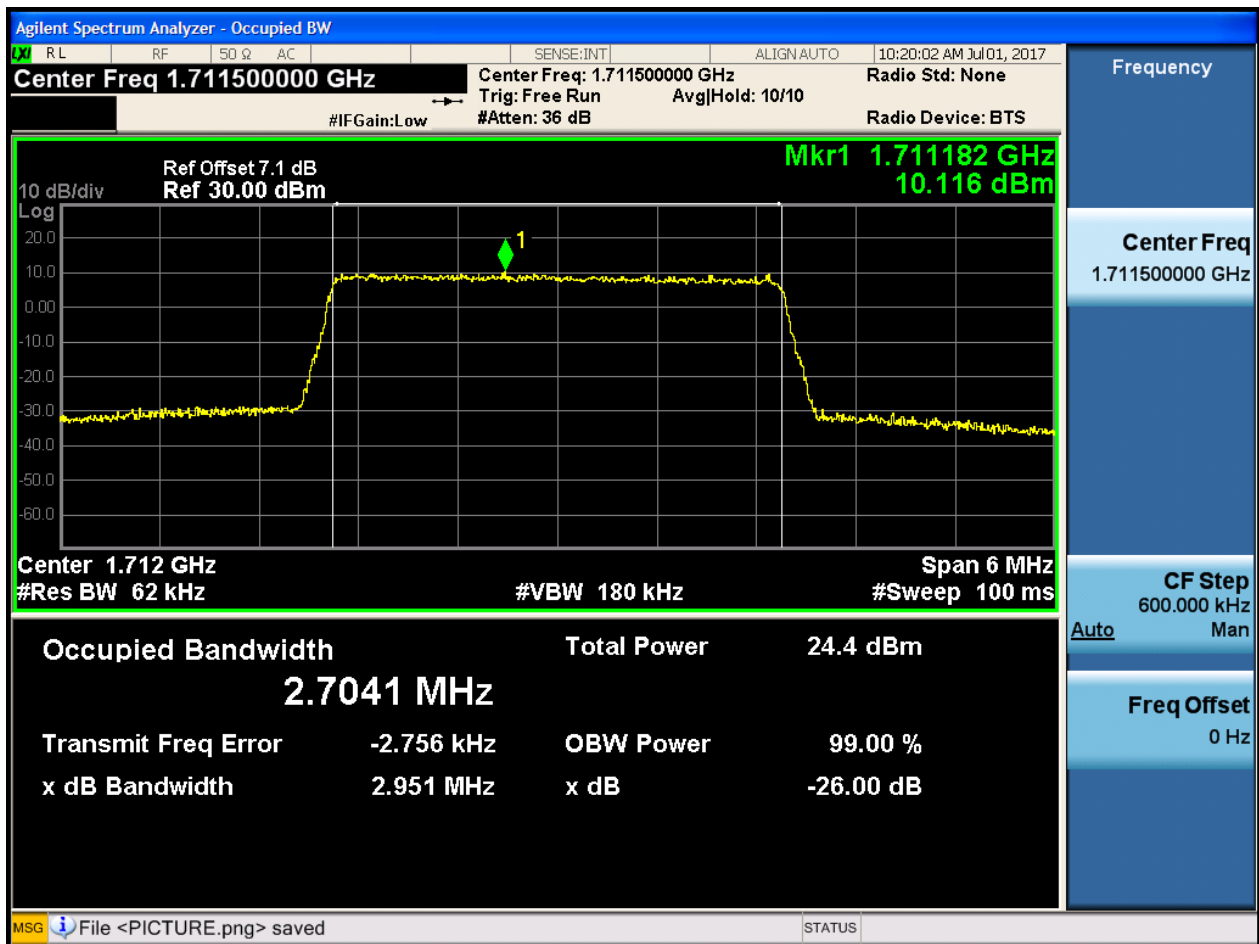




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

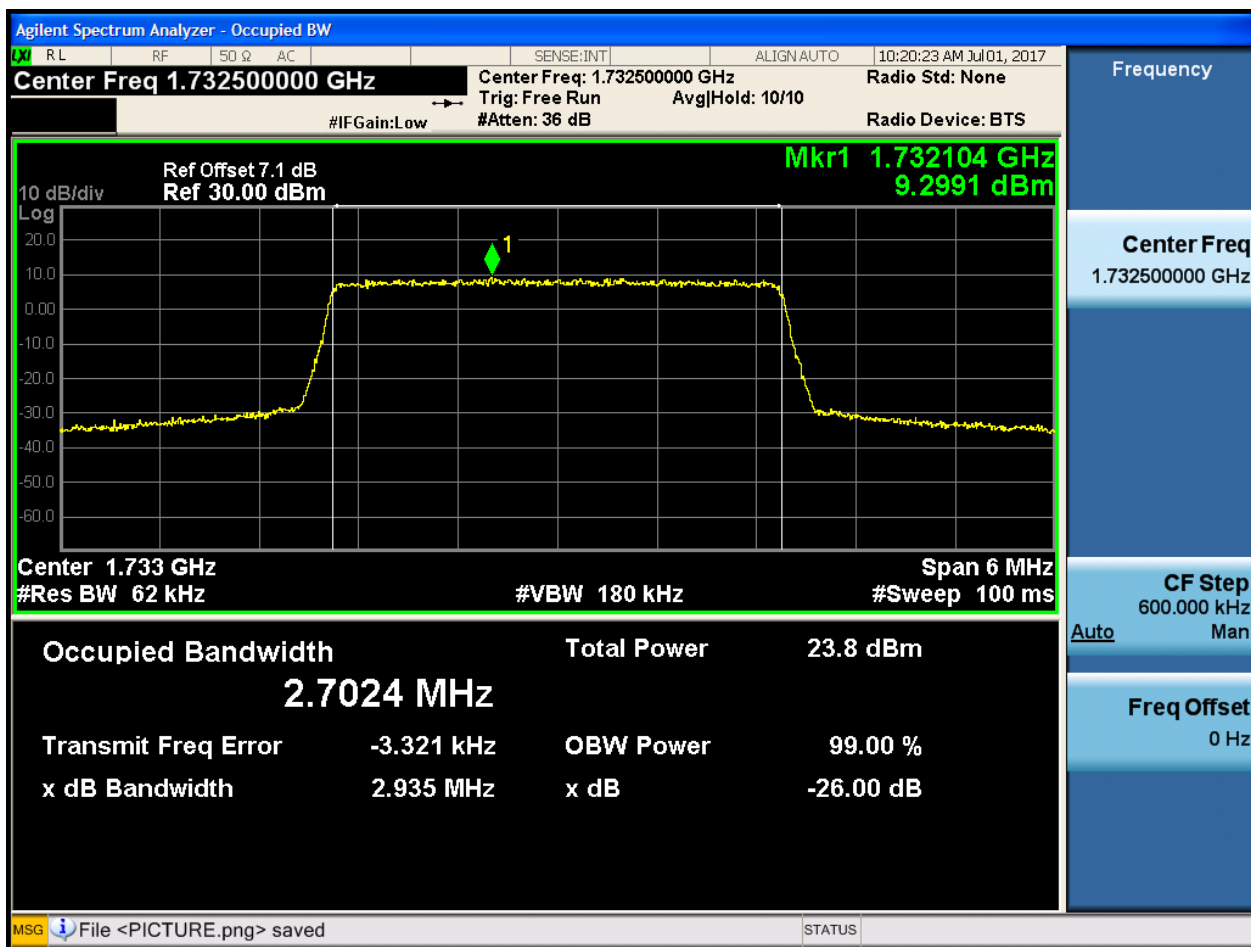
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

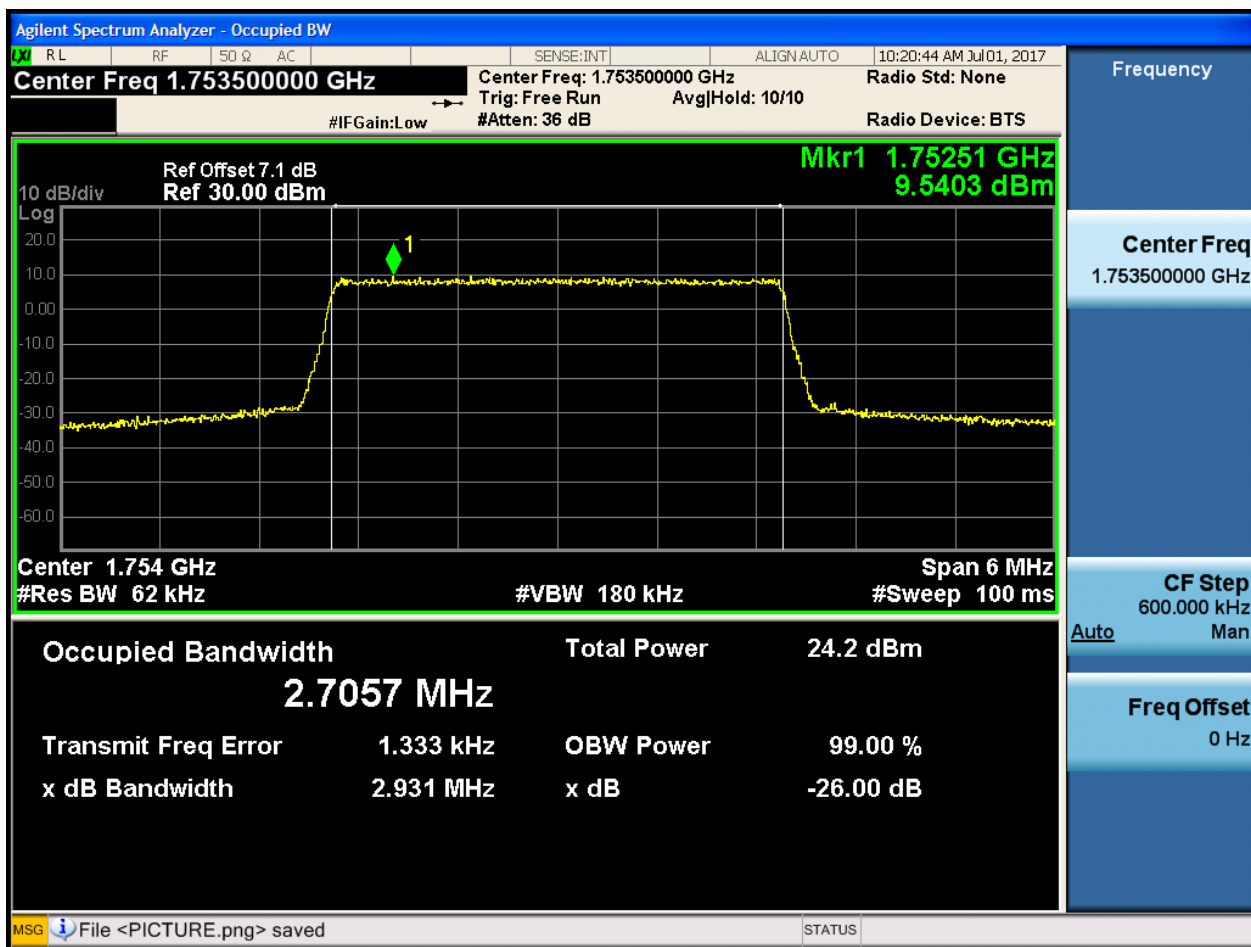
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

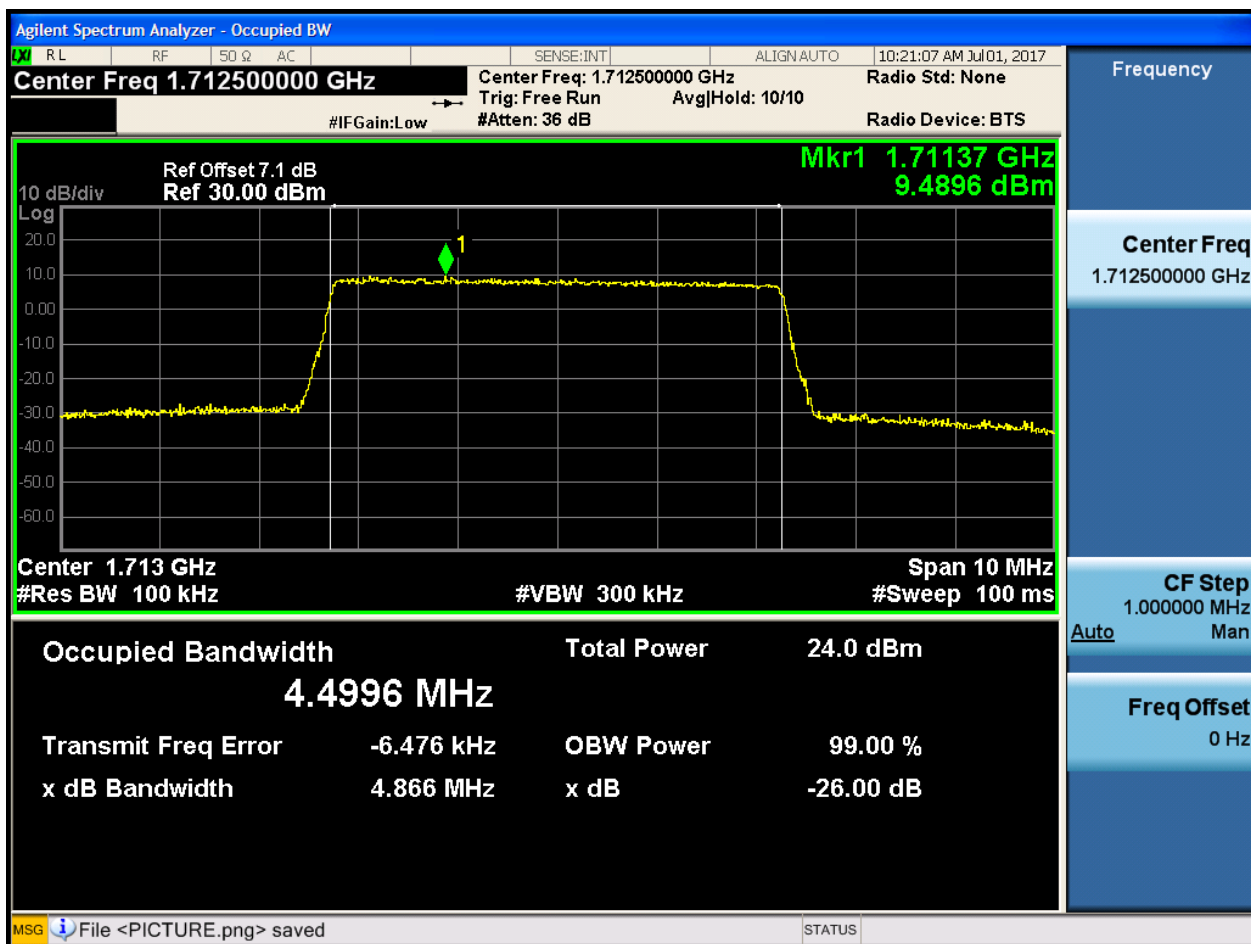
4.1.1.1.2.3.1 Test RB = RB15#0



4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

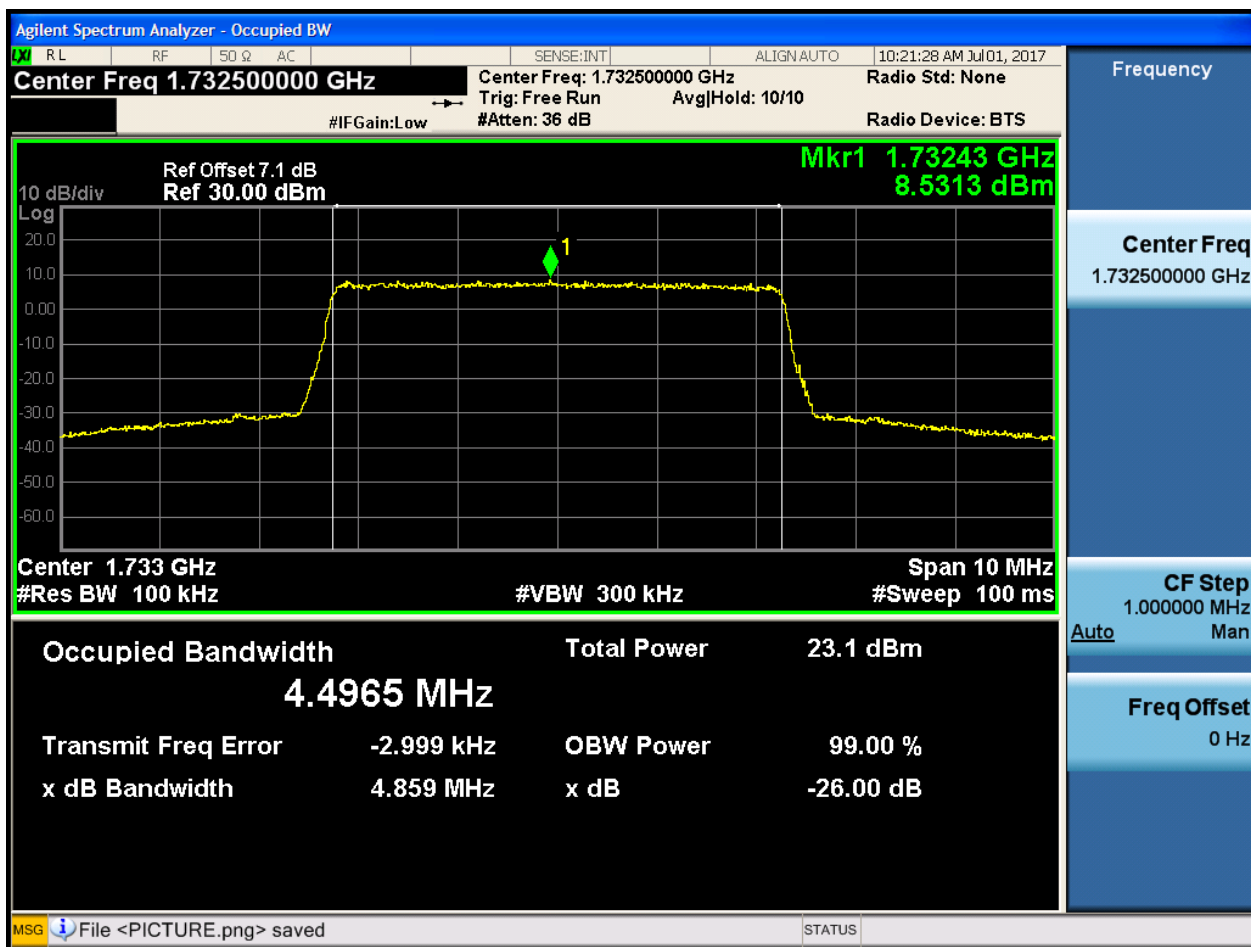
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

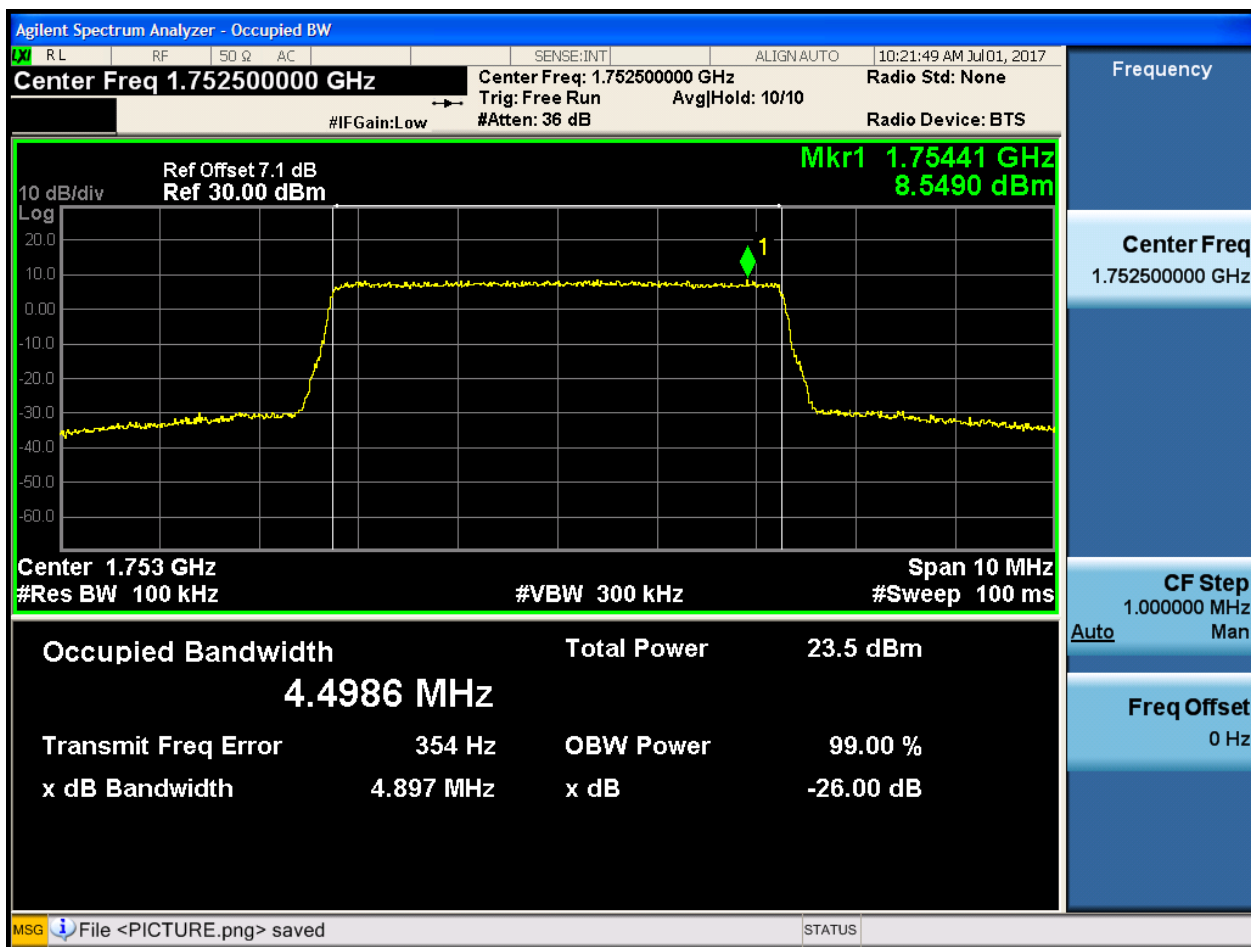
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

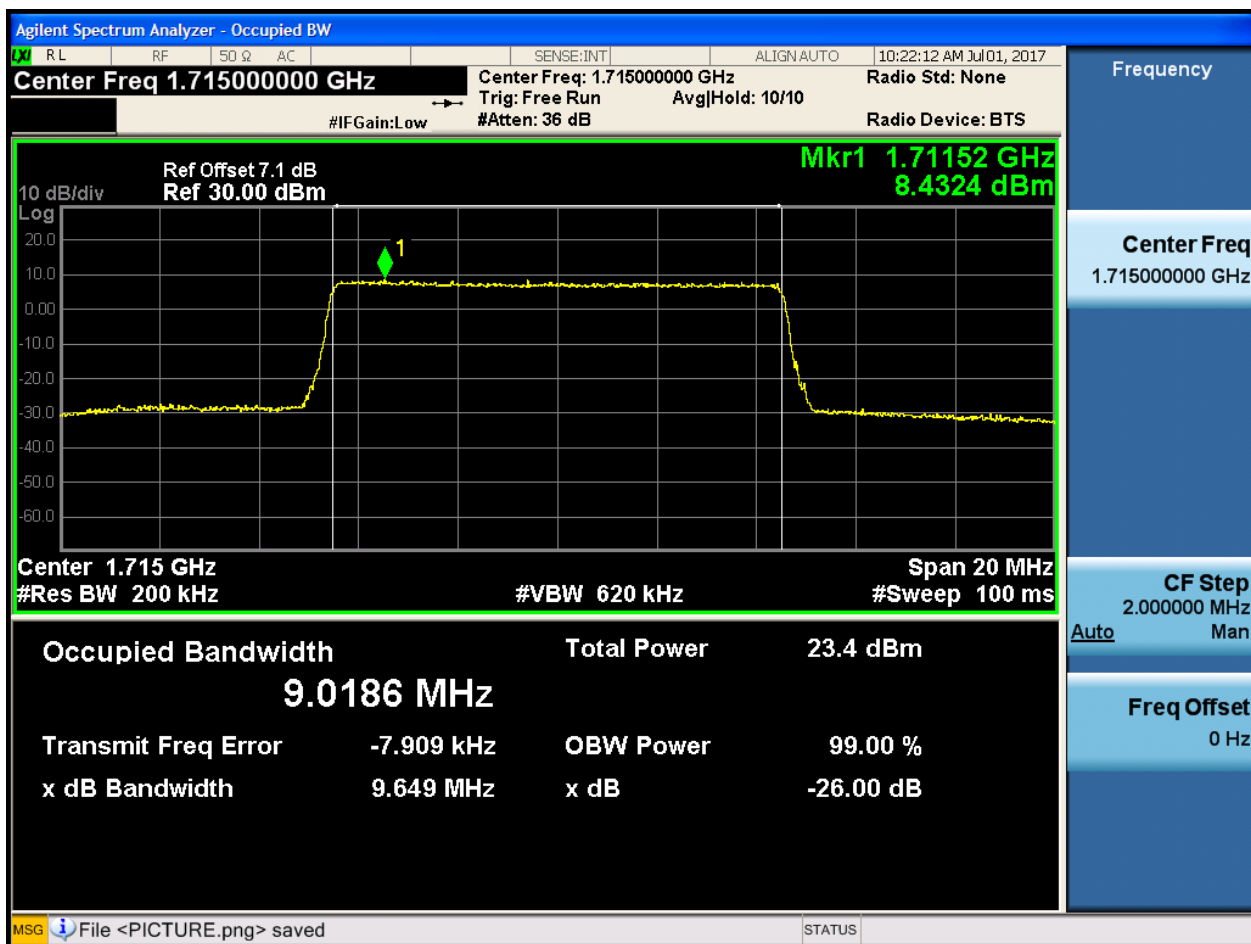




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

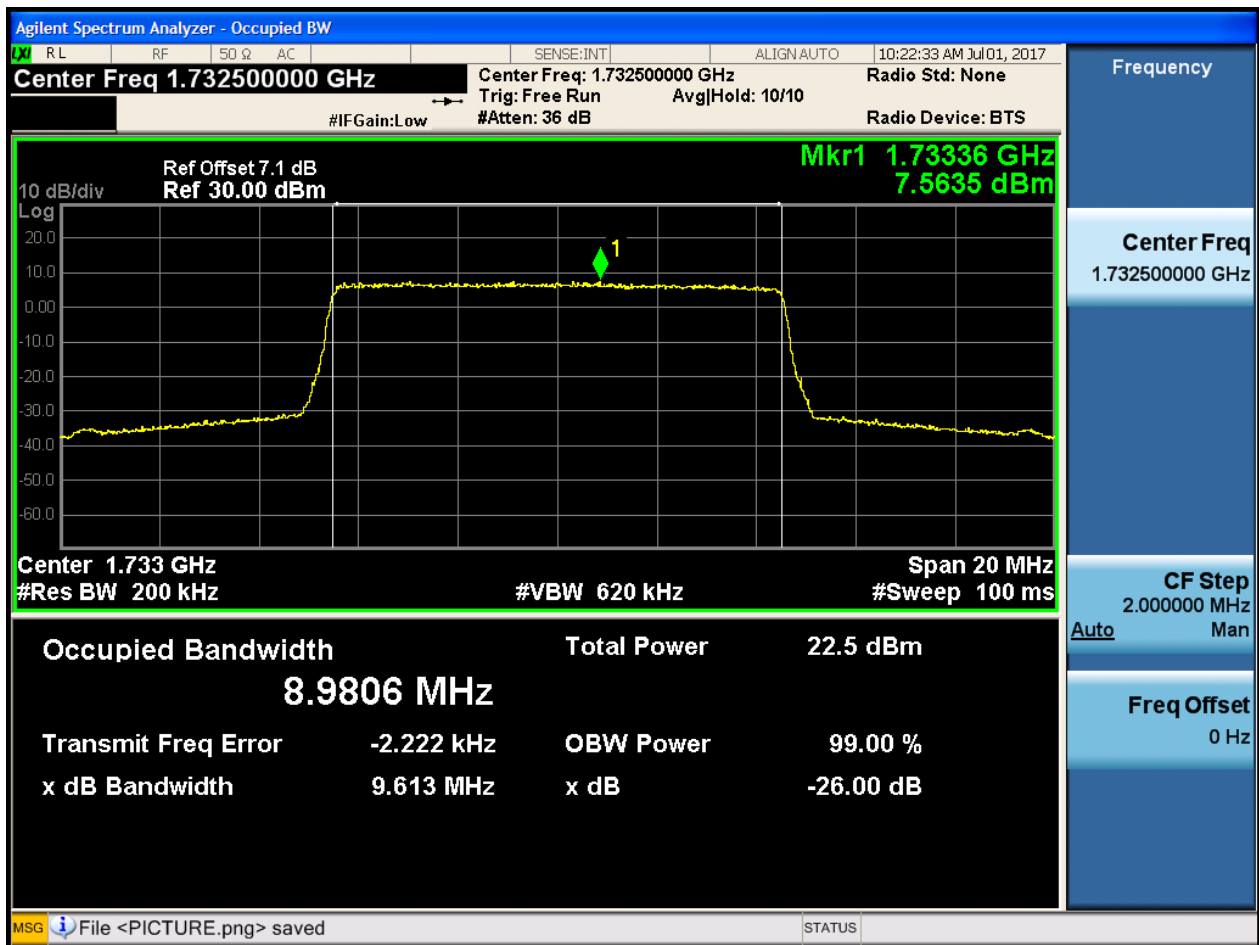
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

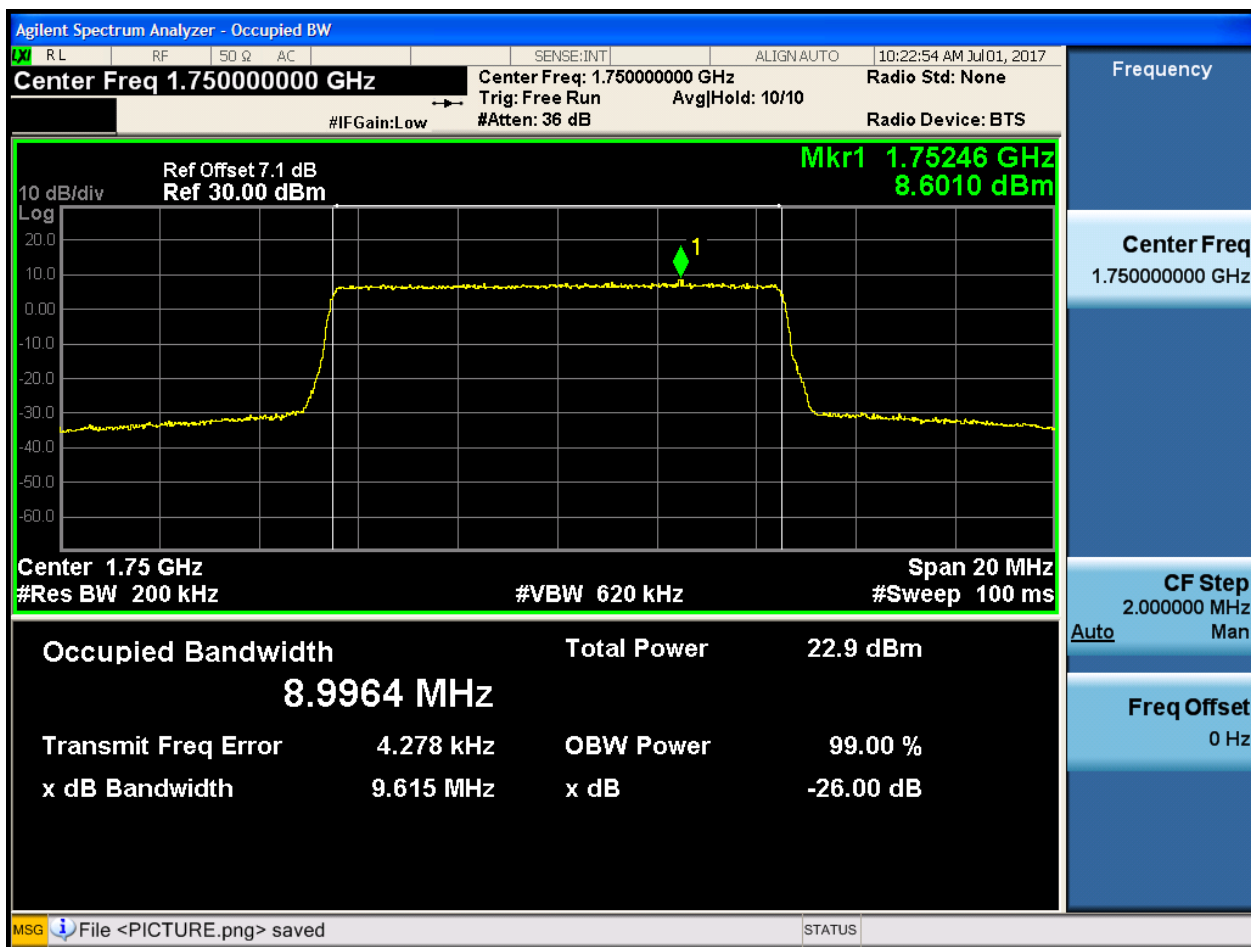
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0

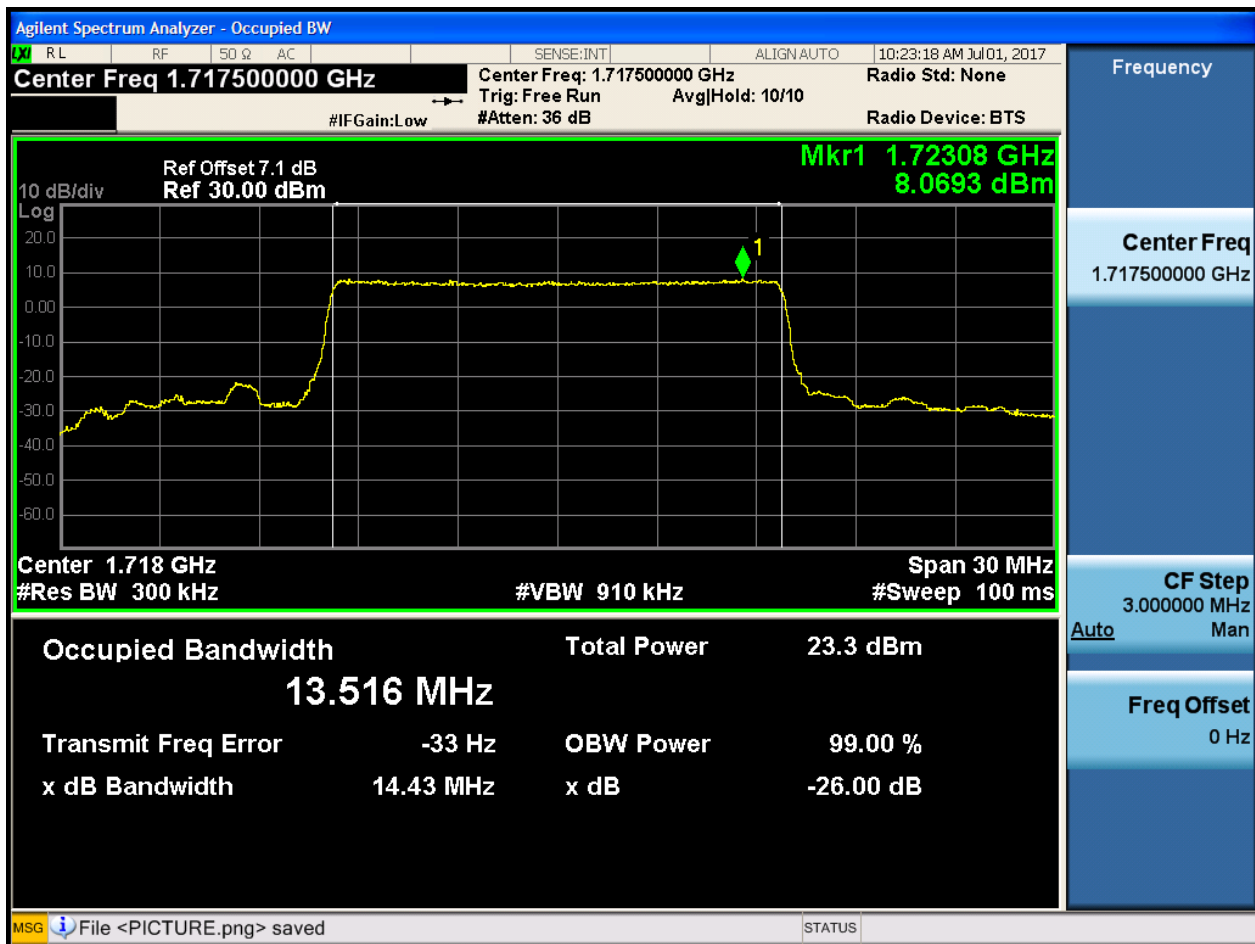




4.1.1.1.5 Test Bandwidth = 15

4.1.1.1.5.1 Test Channel = LCH

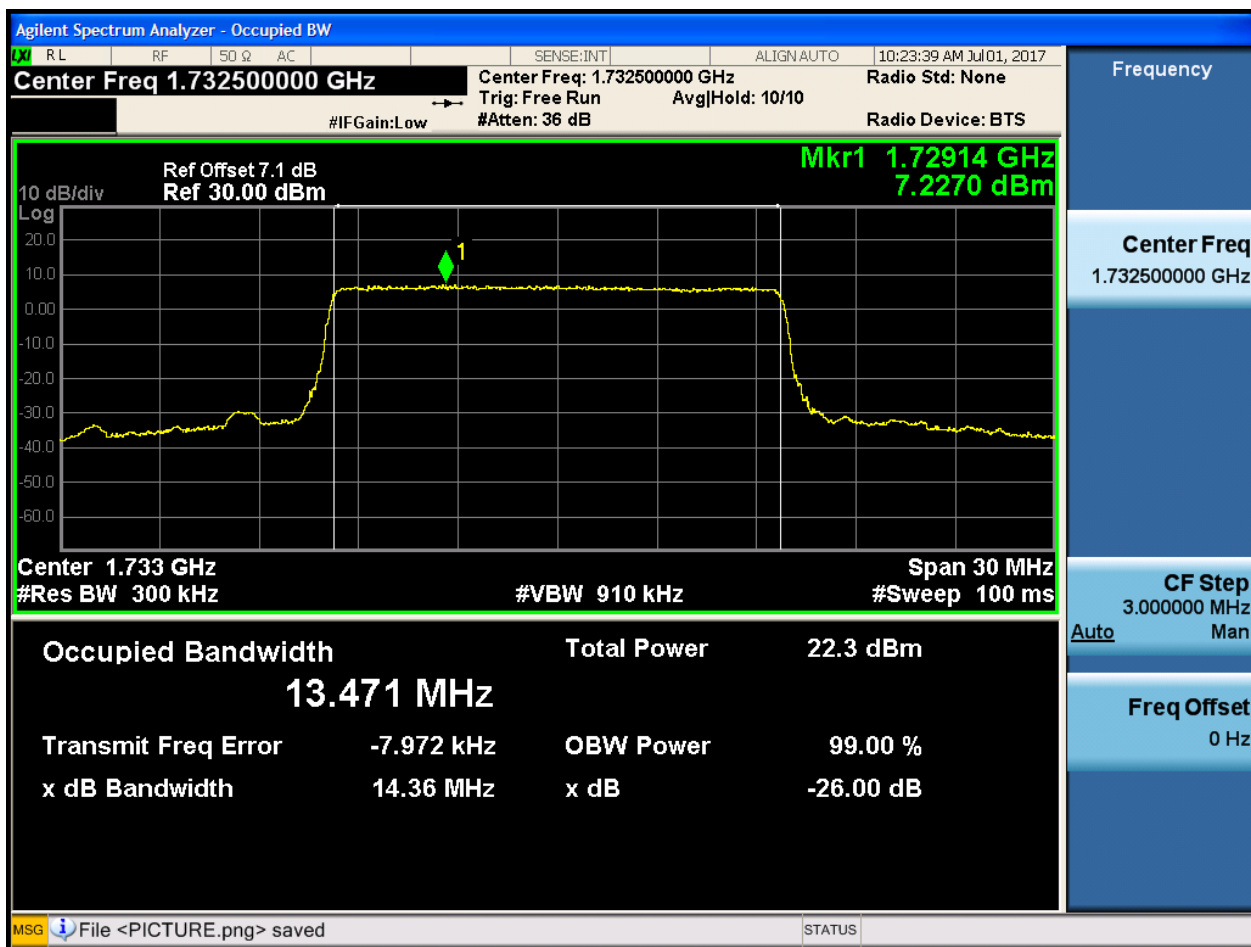
4.1.1.1.5.1.1 Test RB = RB75#0





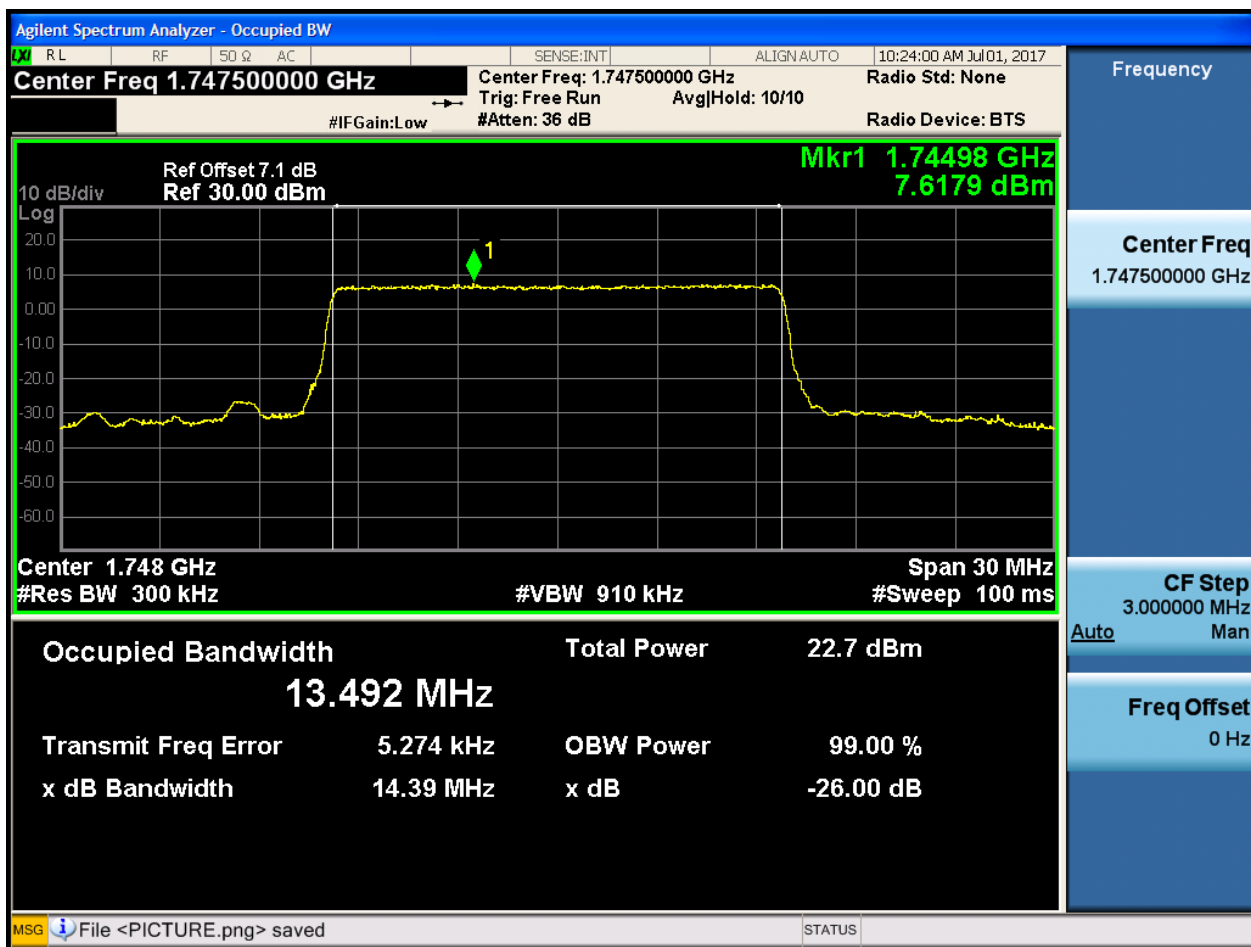
4.1.1.1.5.2 Test Channel = MCH

4.1.1.1.5.2.1 Test RB = RB75#0



4.1.1.1.5.3 Test Channel = HCH

4.1.1.1.5.3.1 Test RB = RB75#0

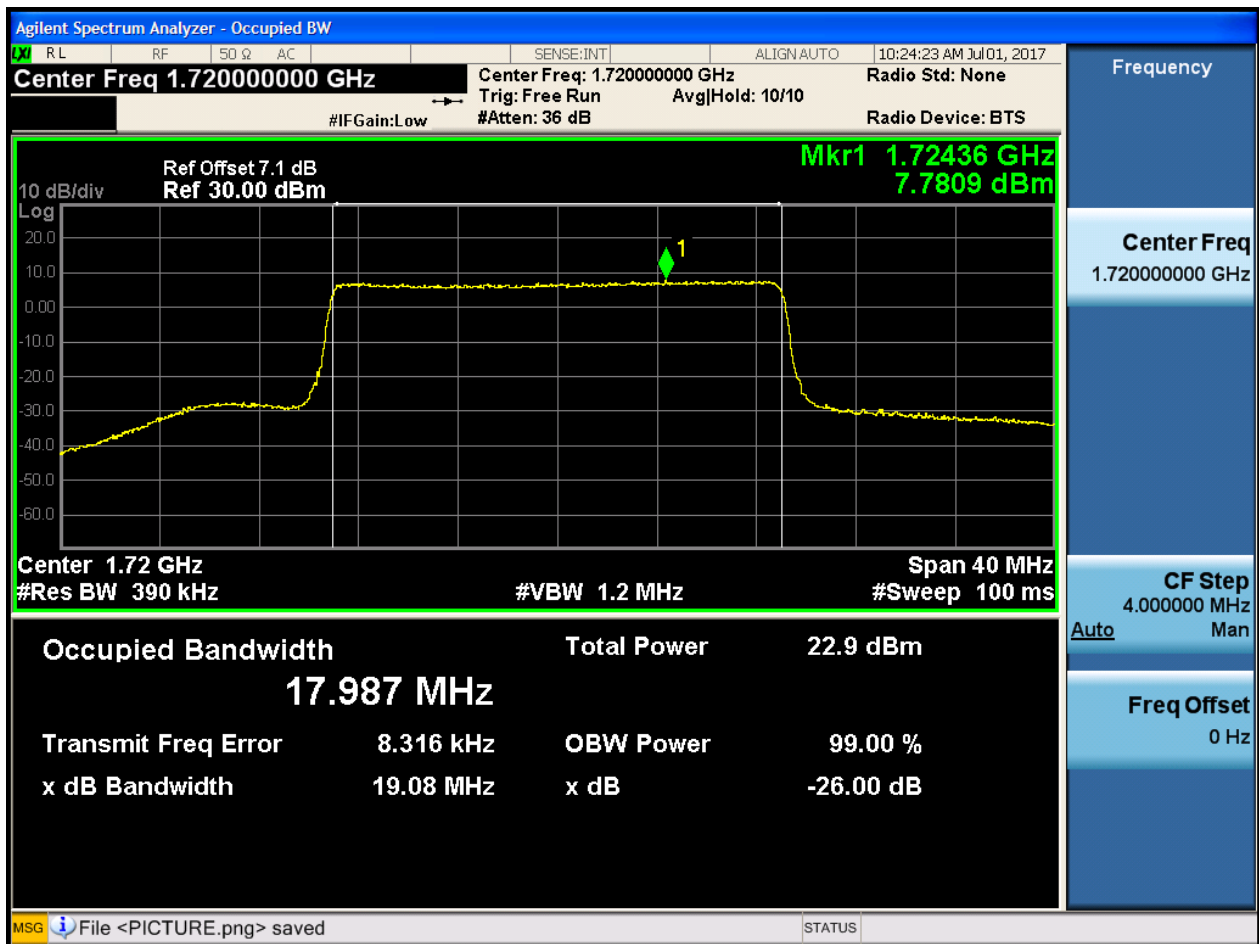




4.1.1.1.6 Test Bandwidth = 20

4.1.1.1.6.1 Test Channel = LCH

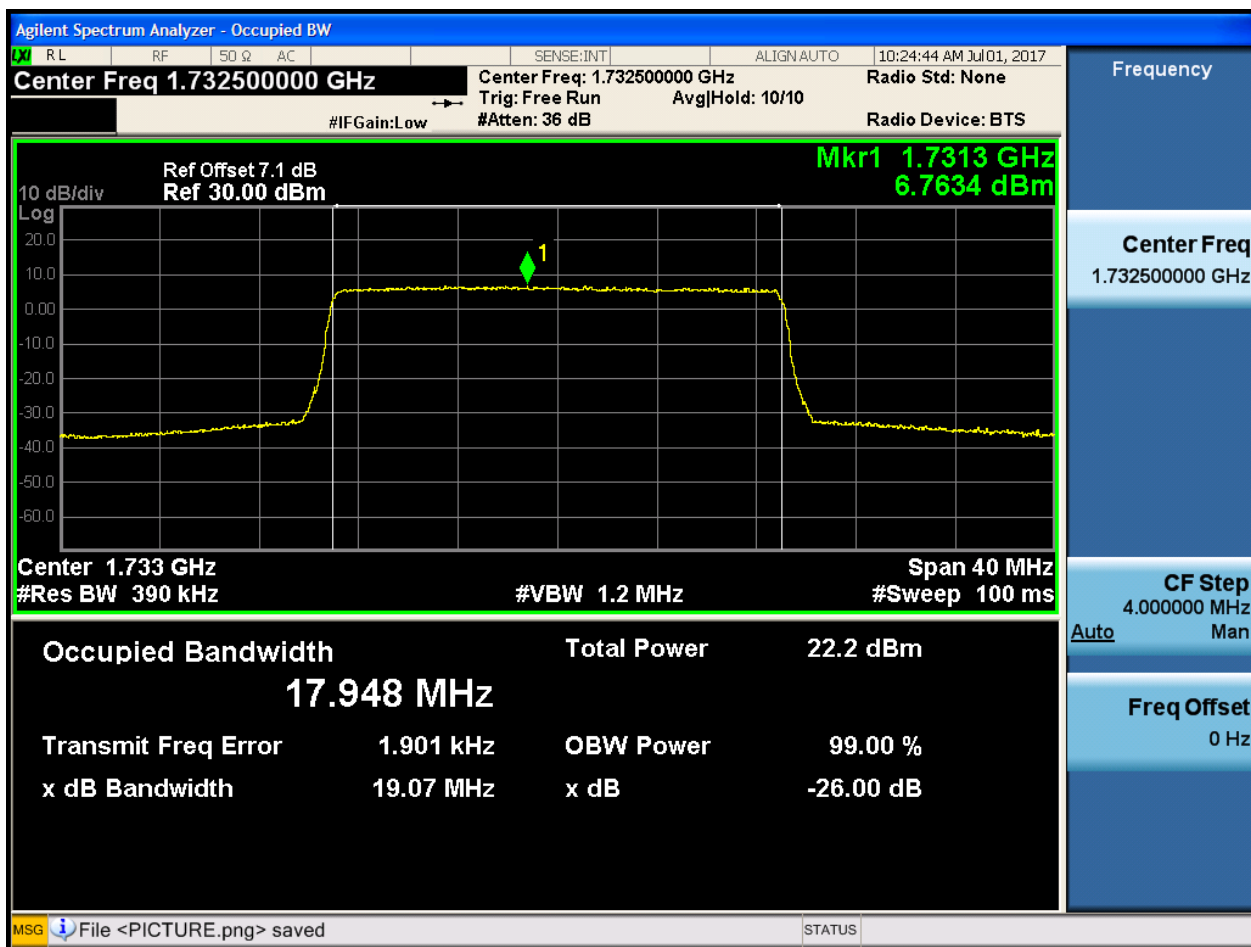
4.1.1.1.6.1.1 Test RB = RB100#0





4.1.1.1.6.2 Test Channel = MCH

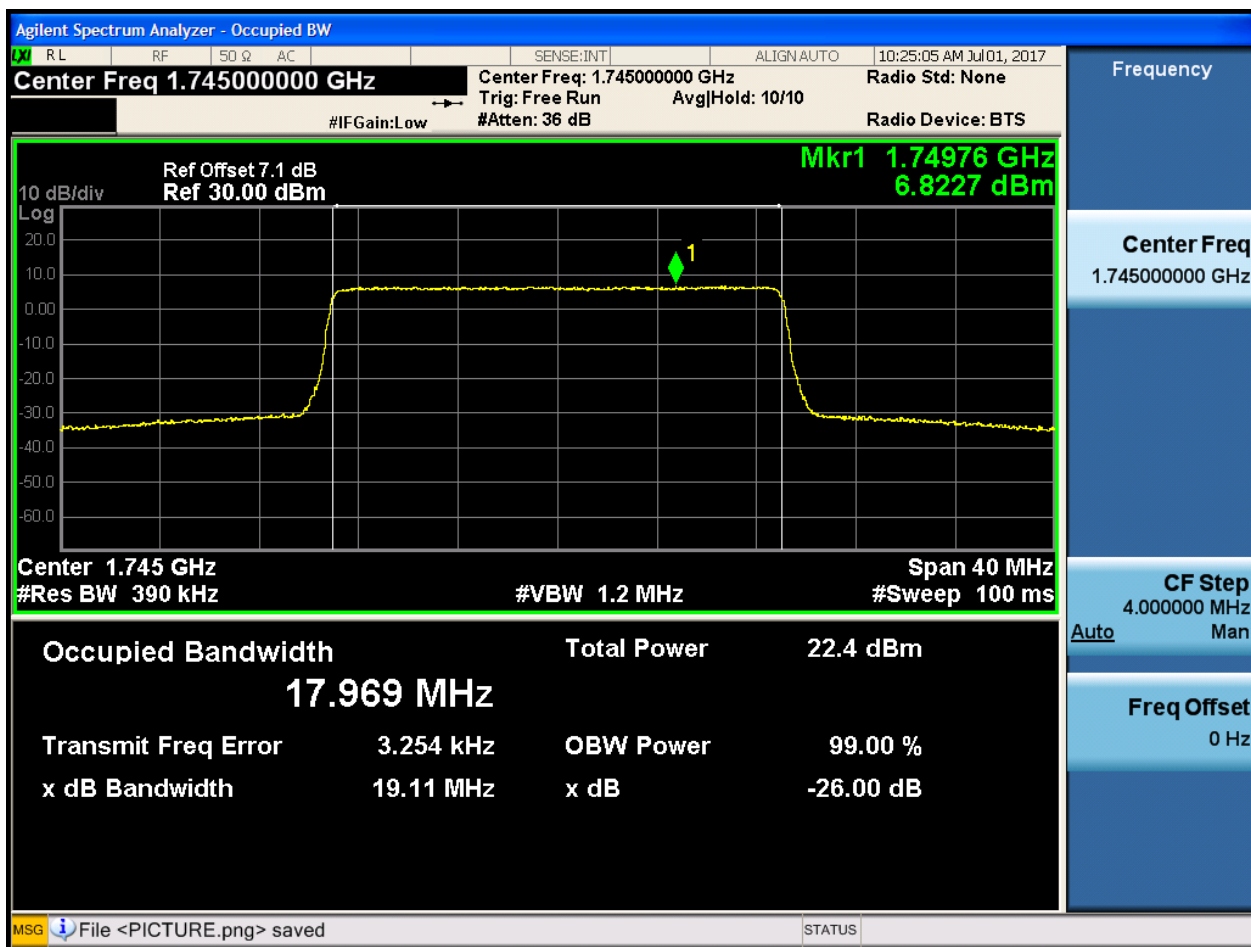
4.1.1.1.6.2.1 Test RB = RB100#0





4.1.1.1.6.3 Test Channel = HCH

4.1.1.1.6.3.1 Test RB = RB100#0



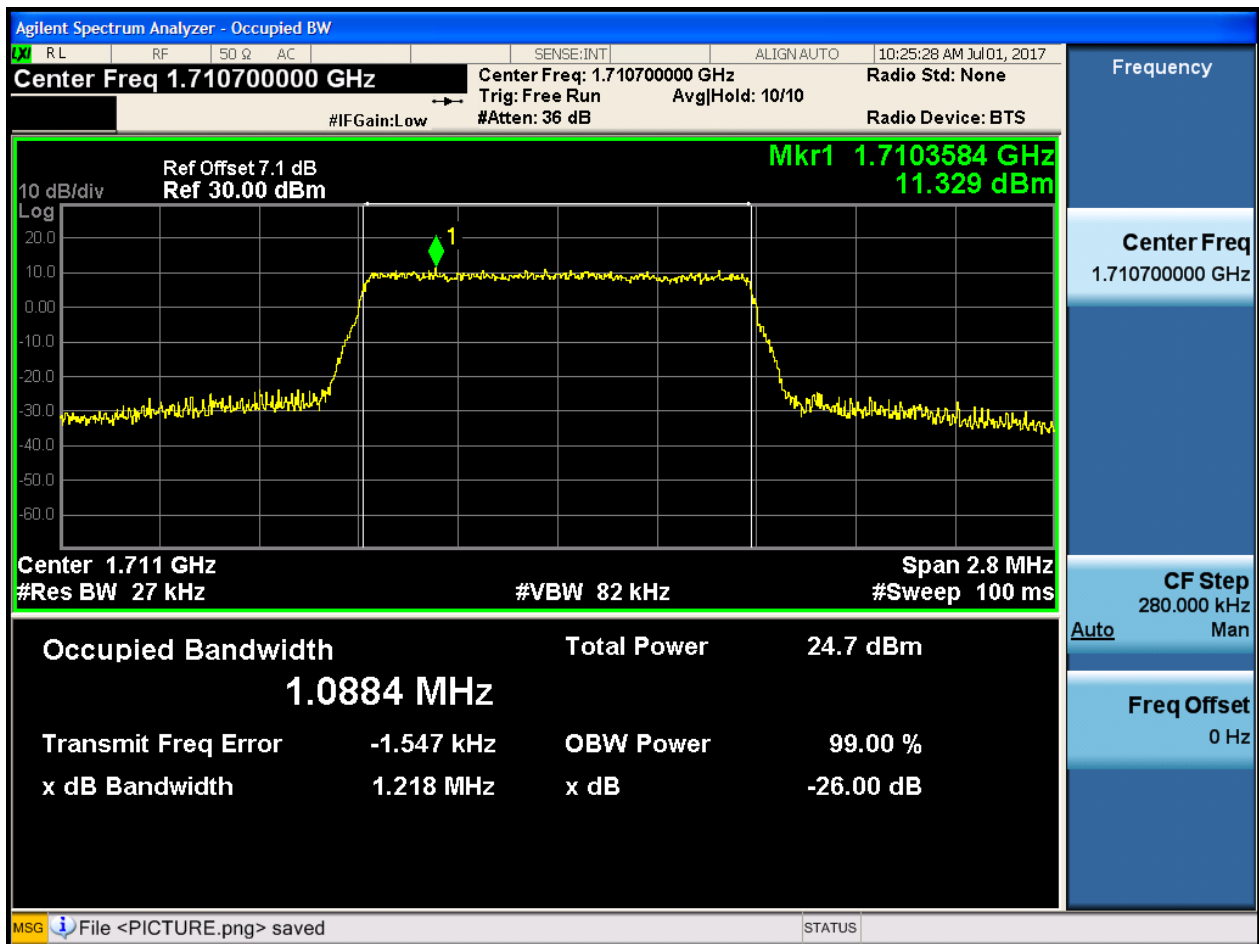


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

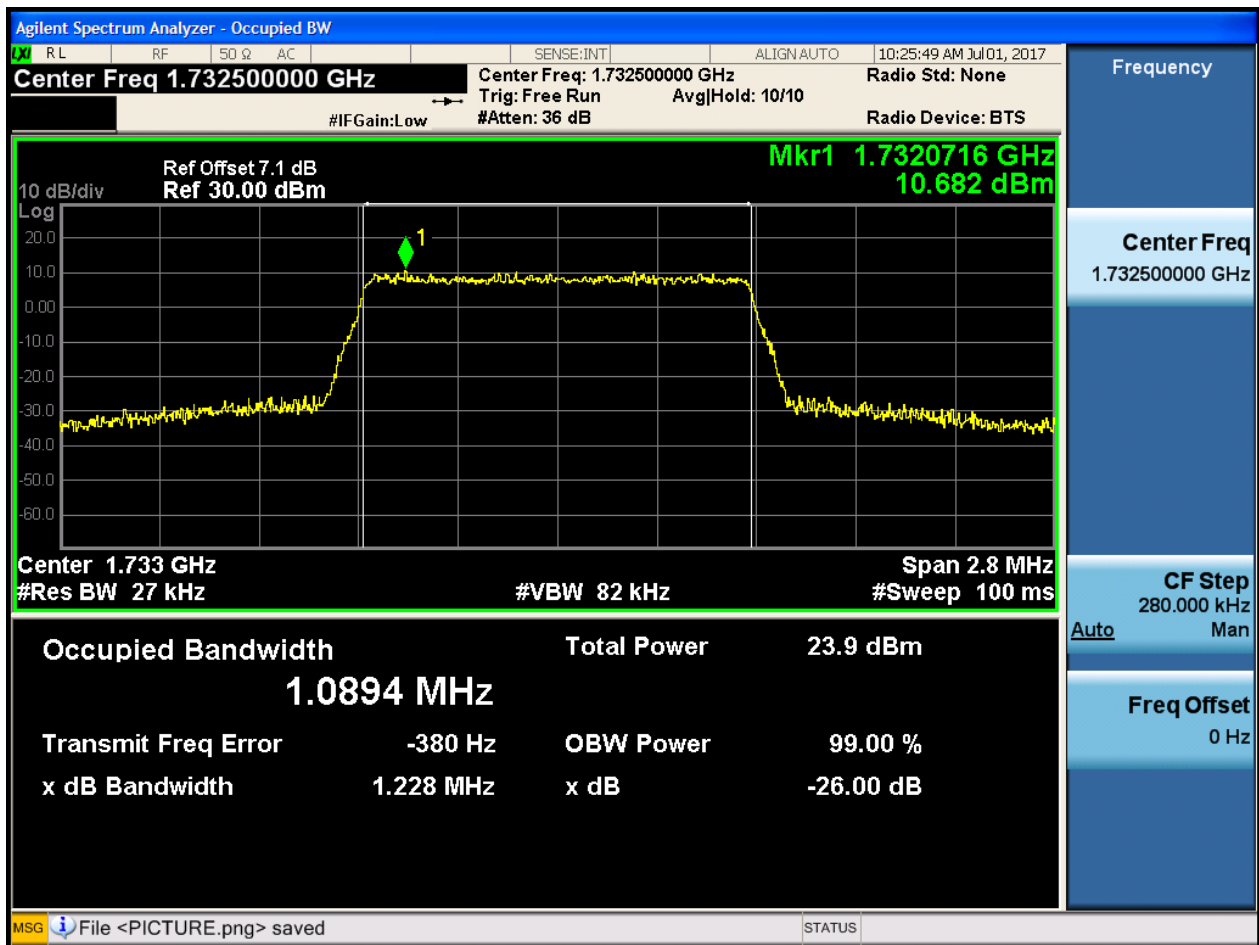
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

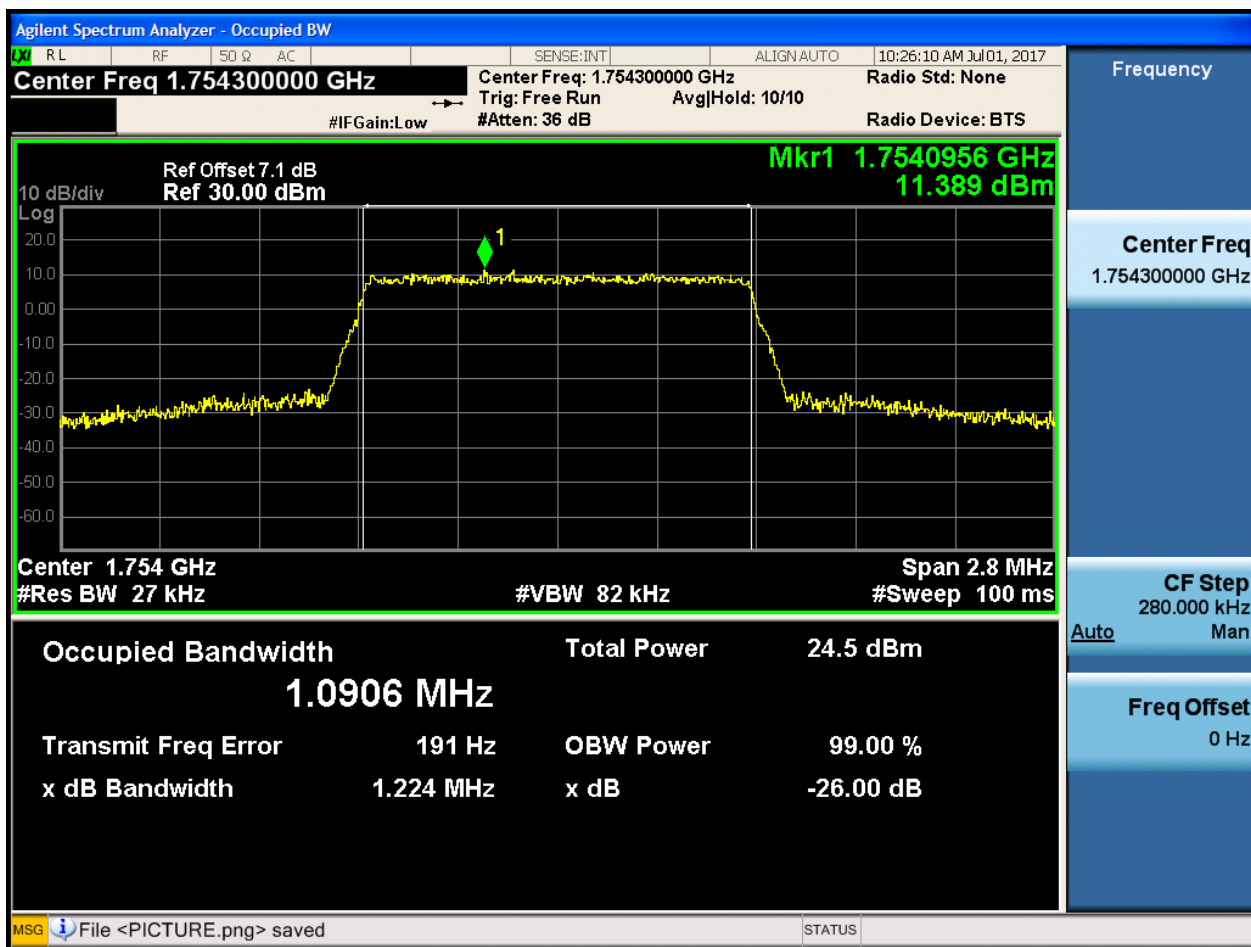
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

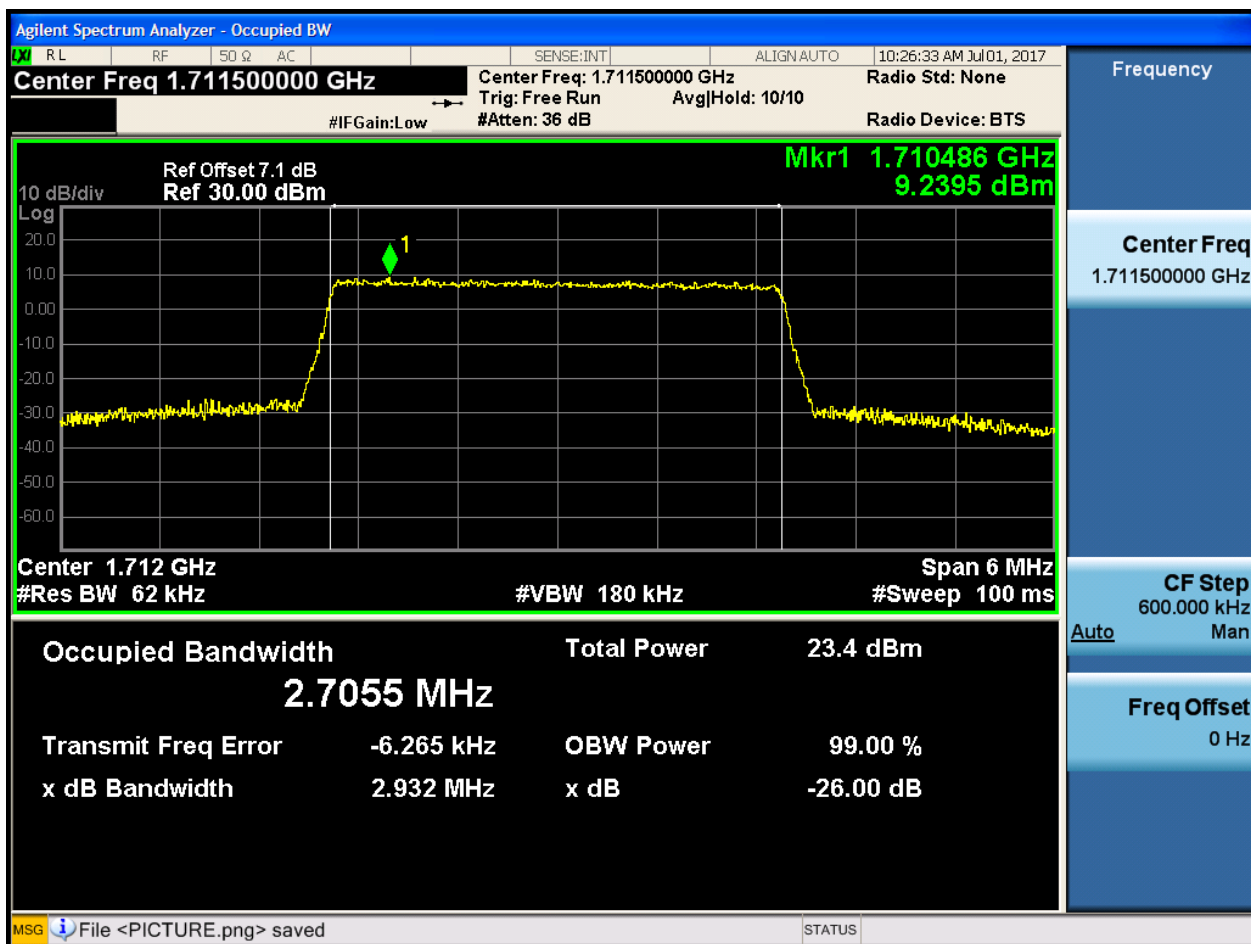




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

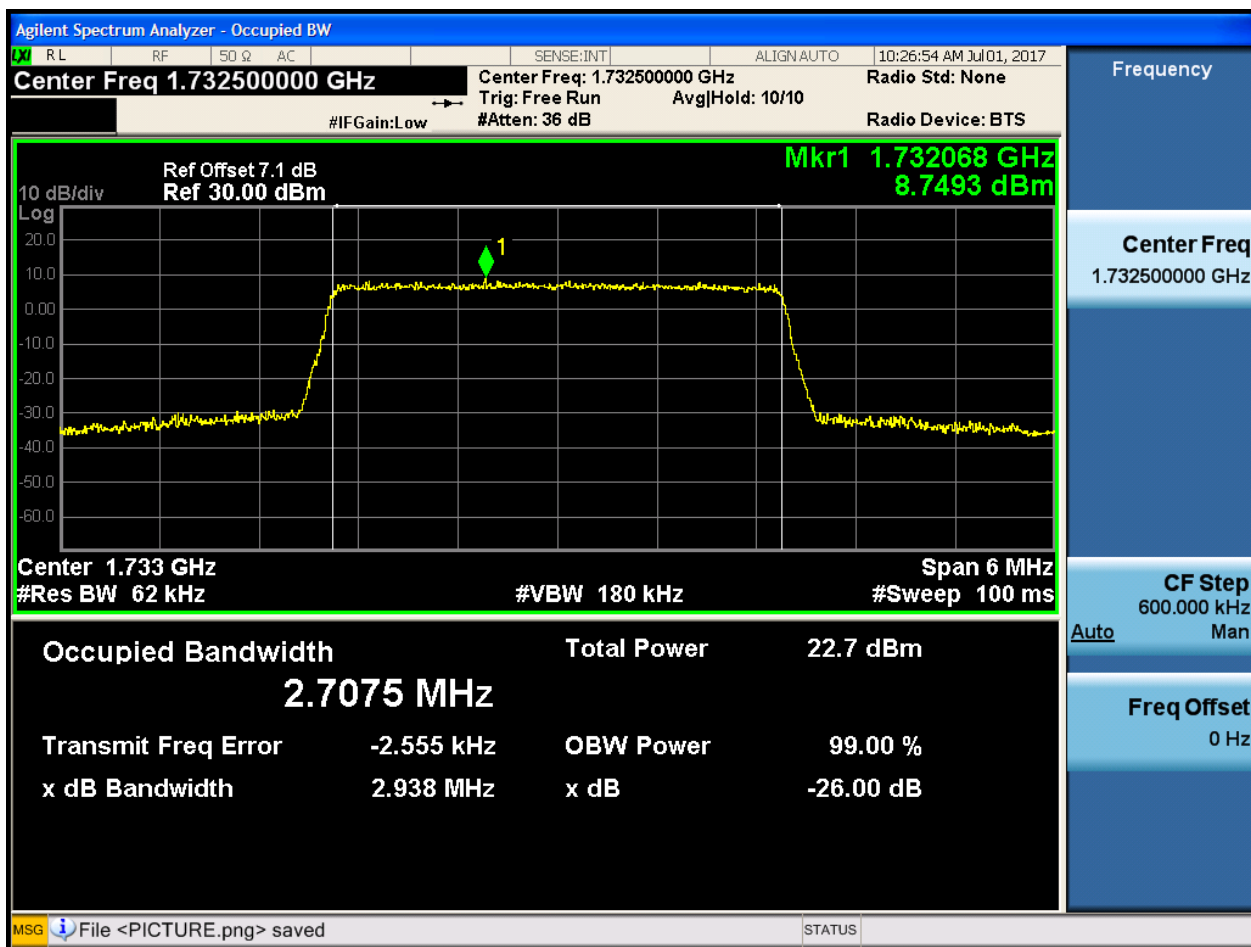
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

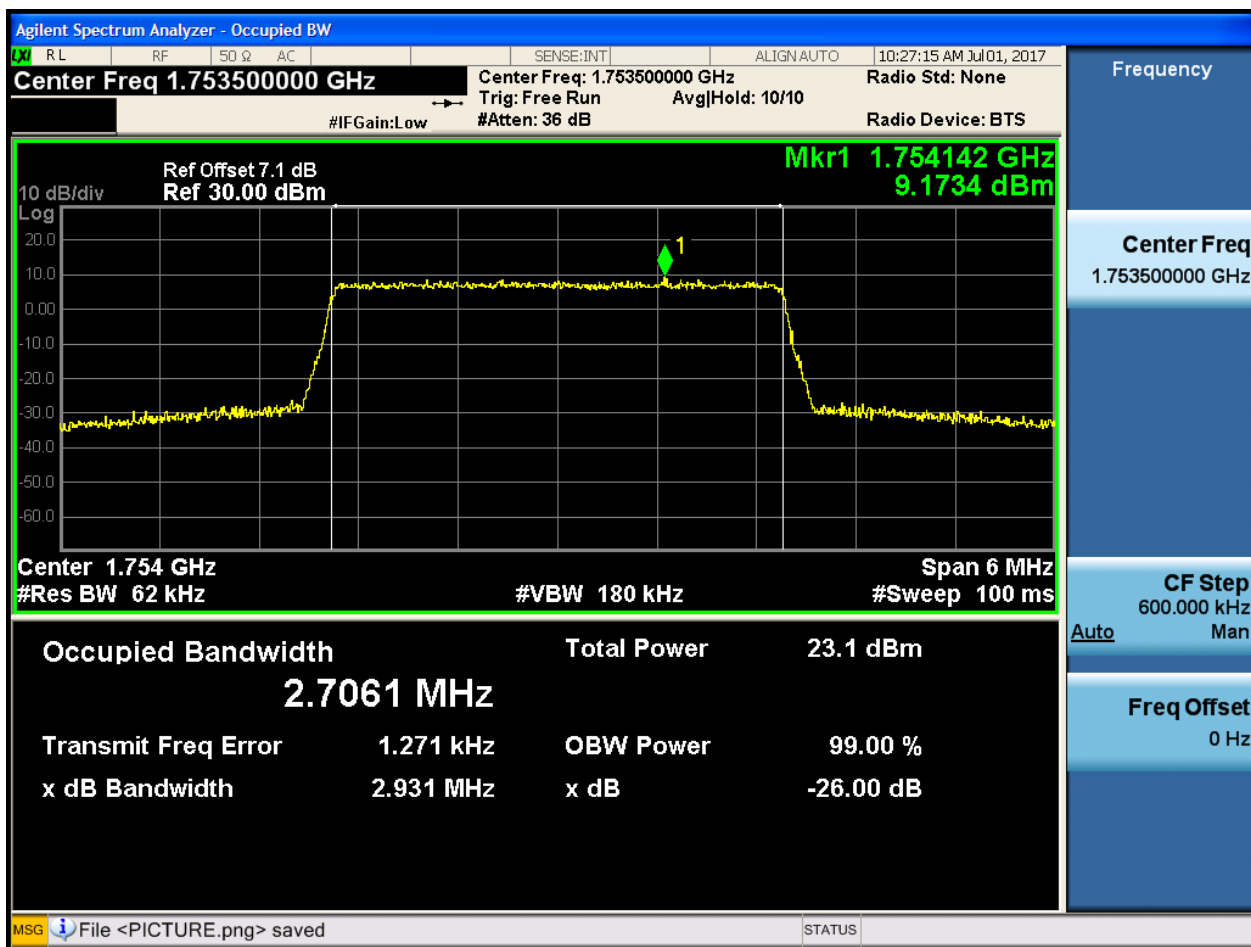
4.1.1.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

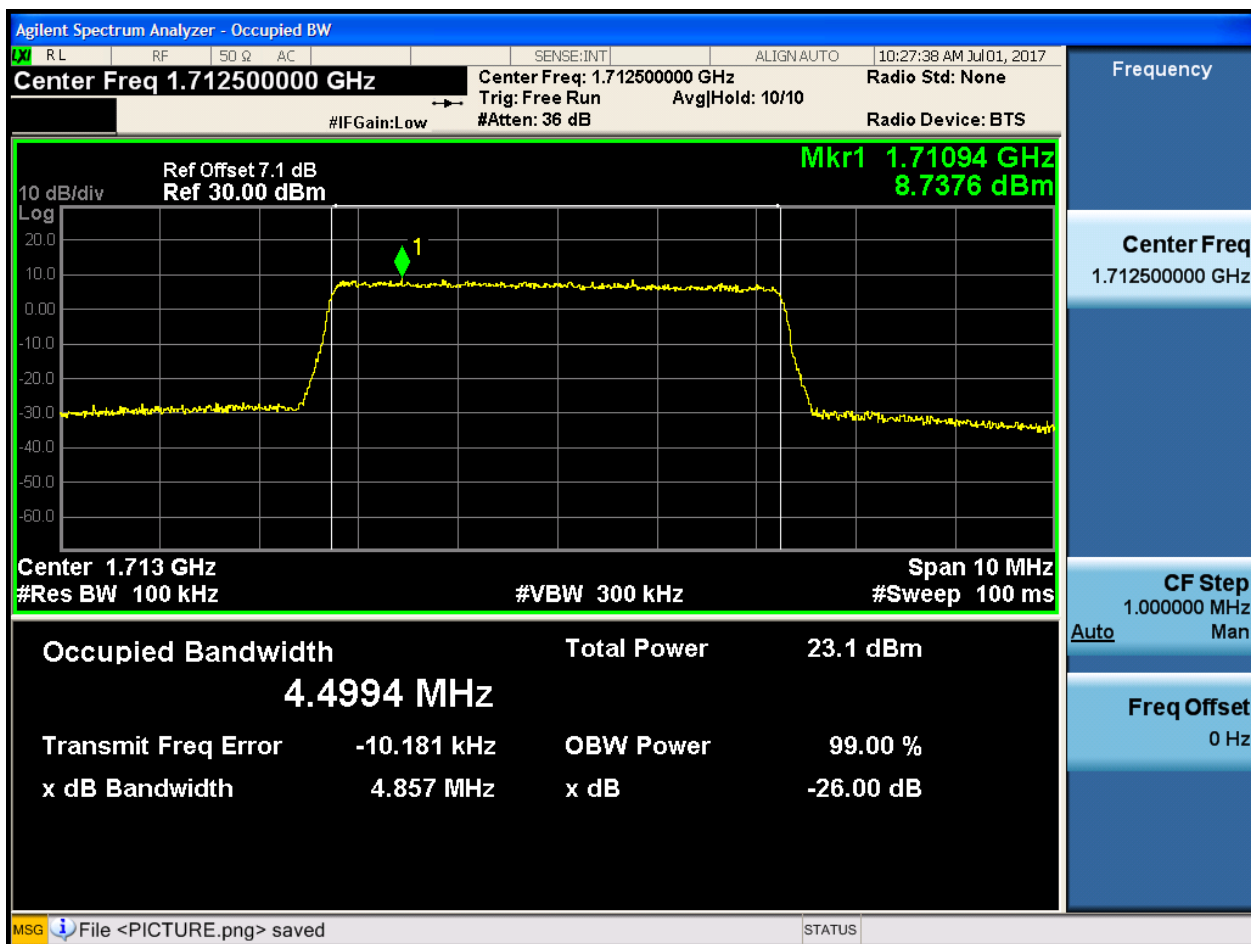




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

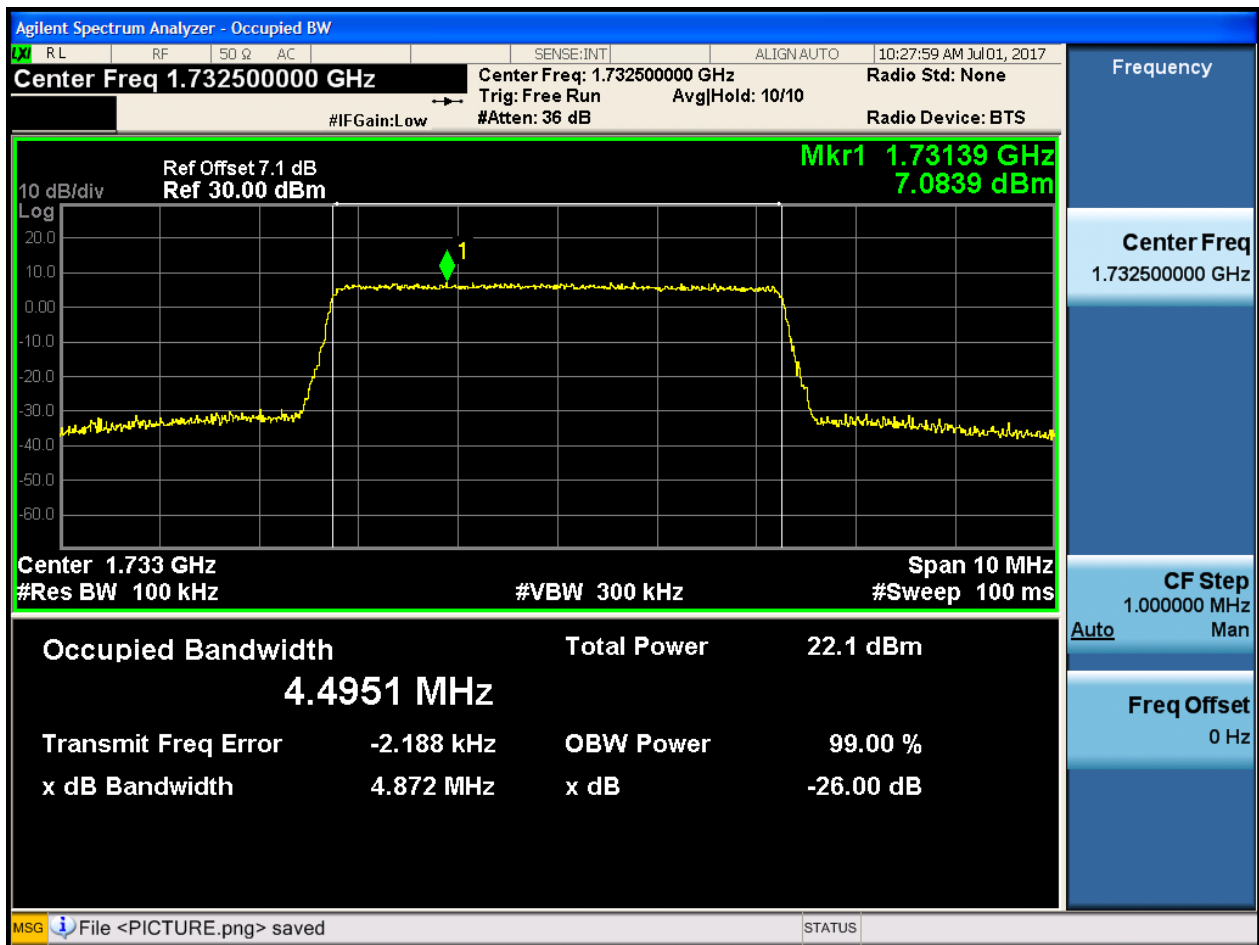
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

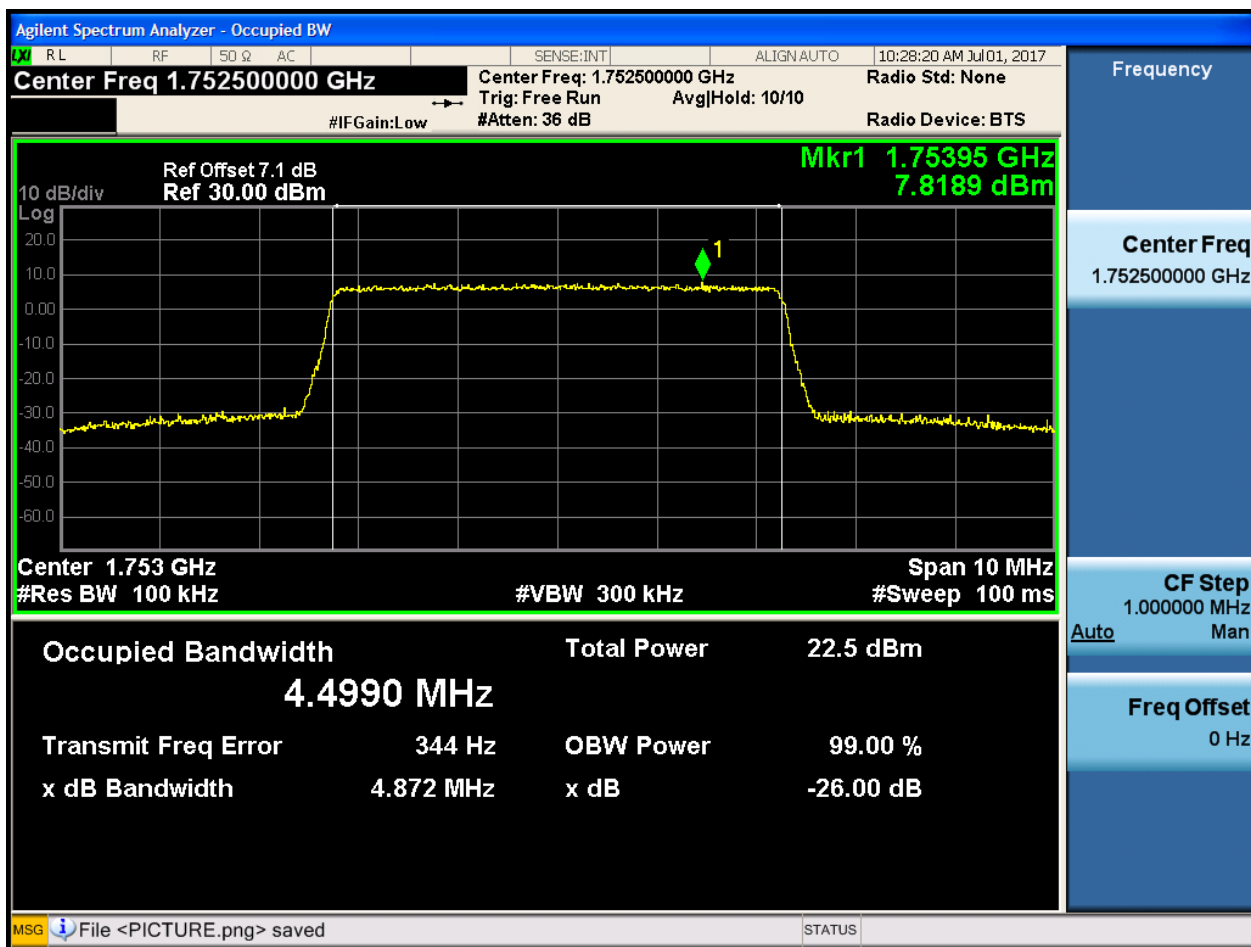
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

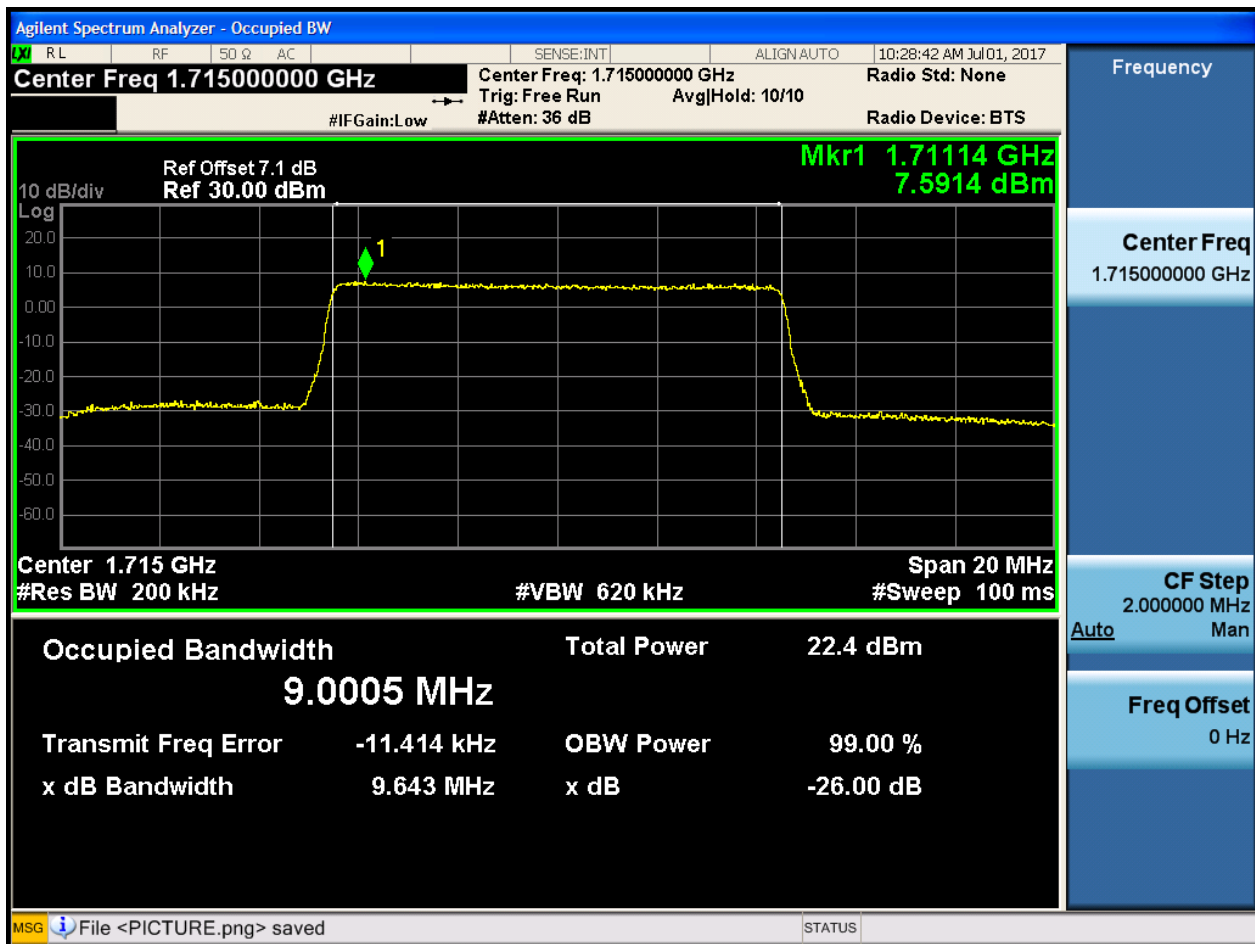




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

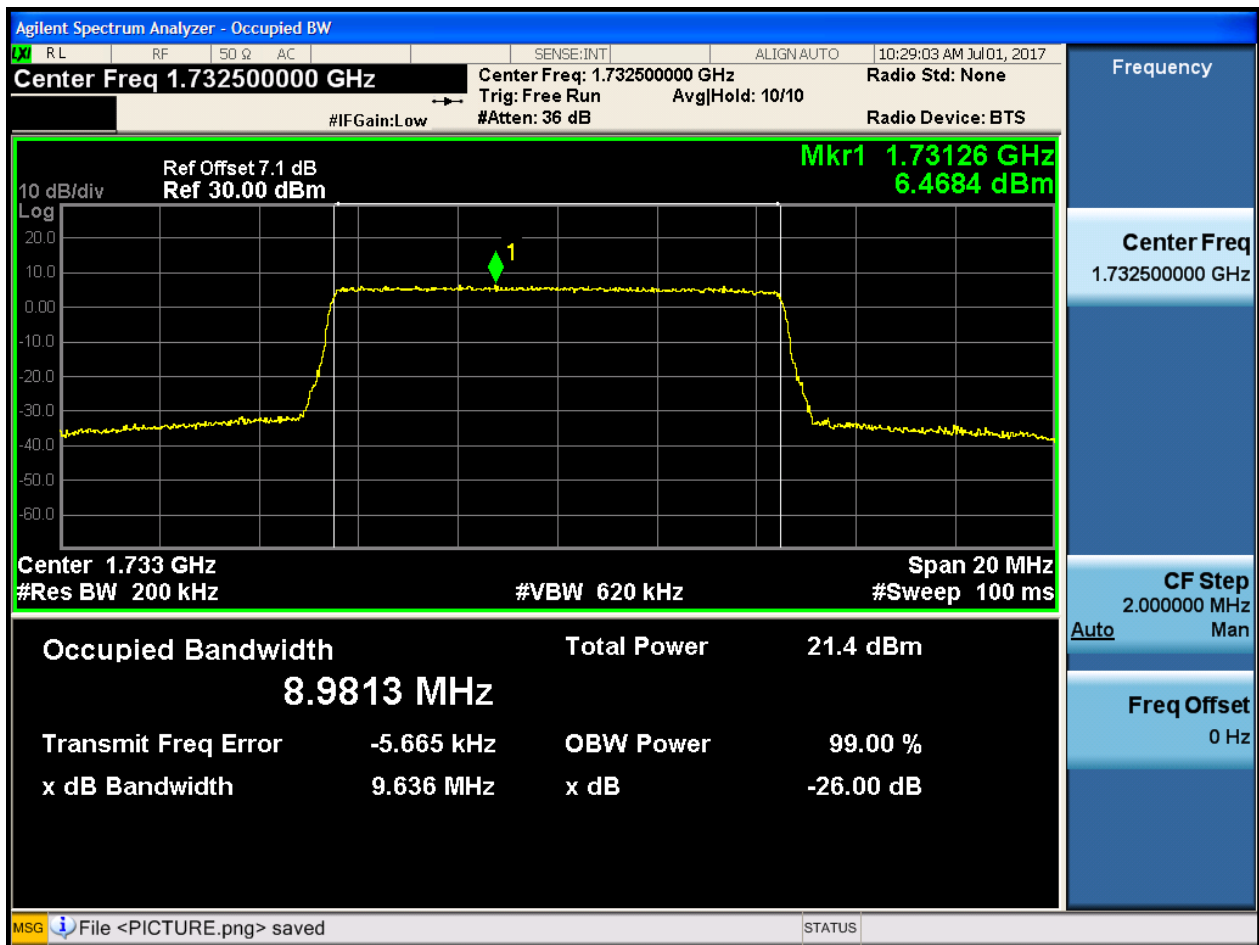
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

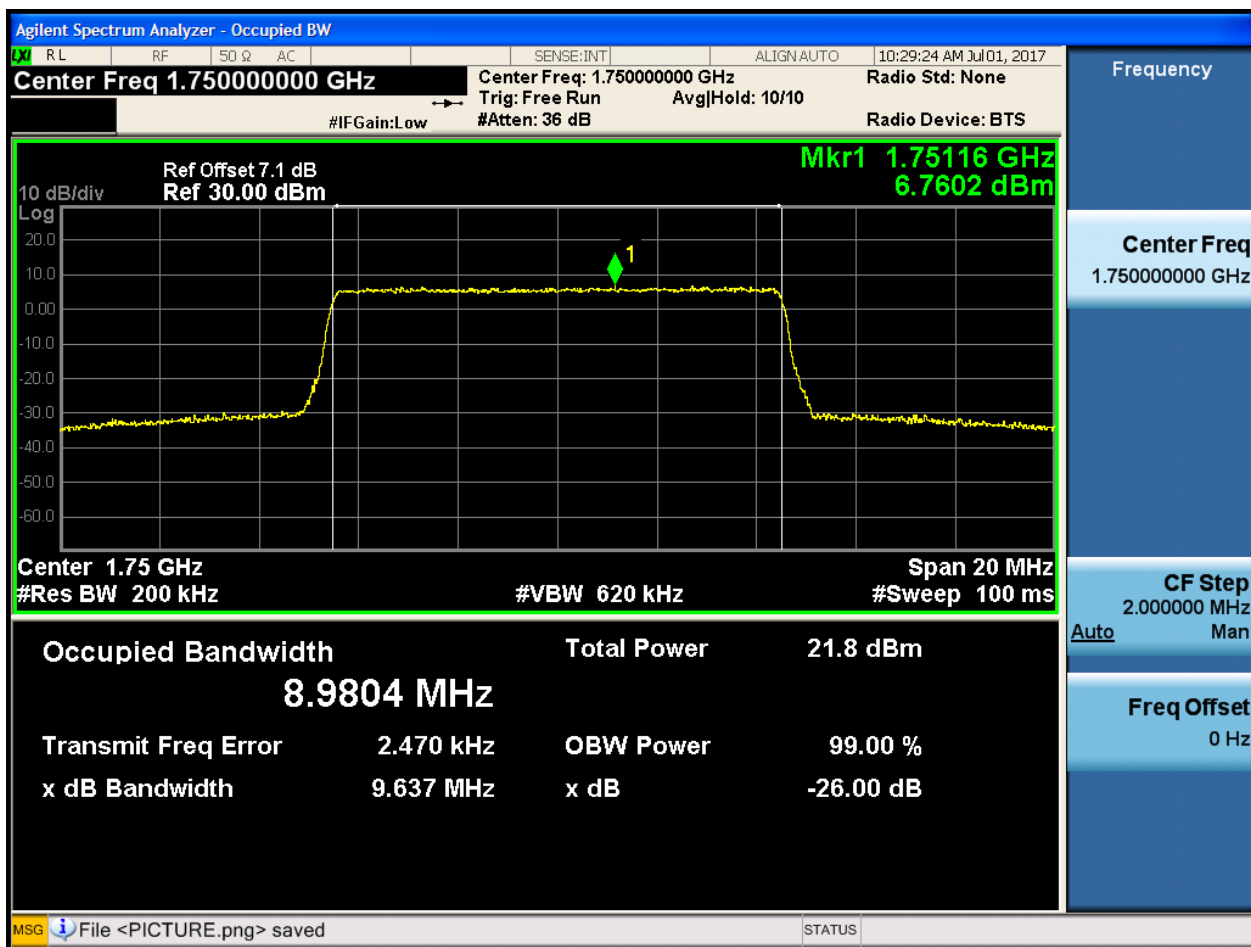
4.1.1.2.4.2.1 Test RB = RB50#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0

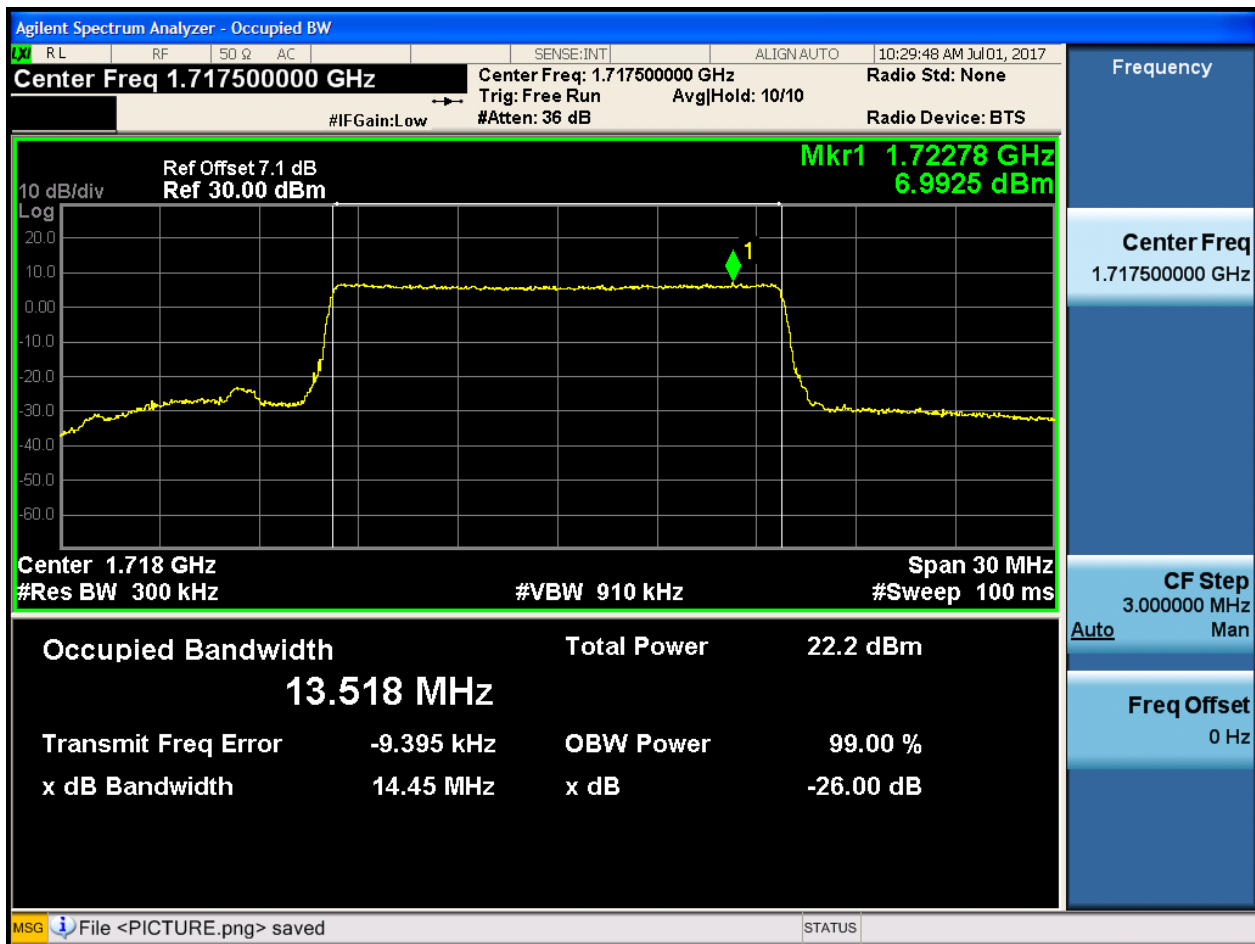




4.1.1.2.5 Test Bandwidth = 15

4.1.1.2.5.1 Test Channel = LCH

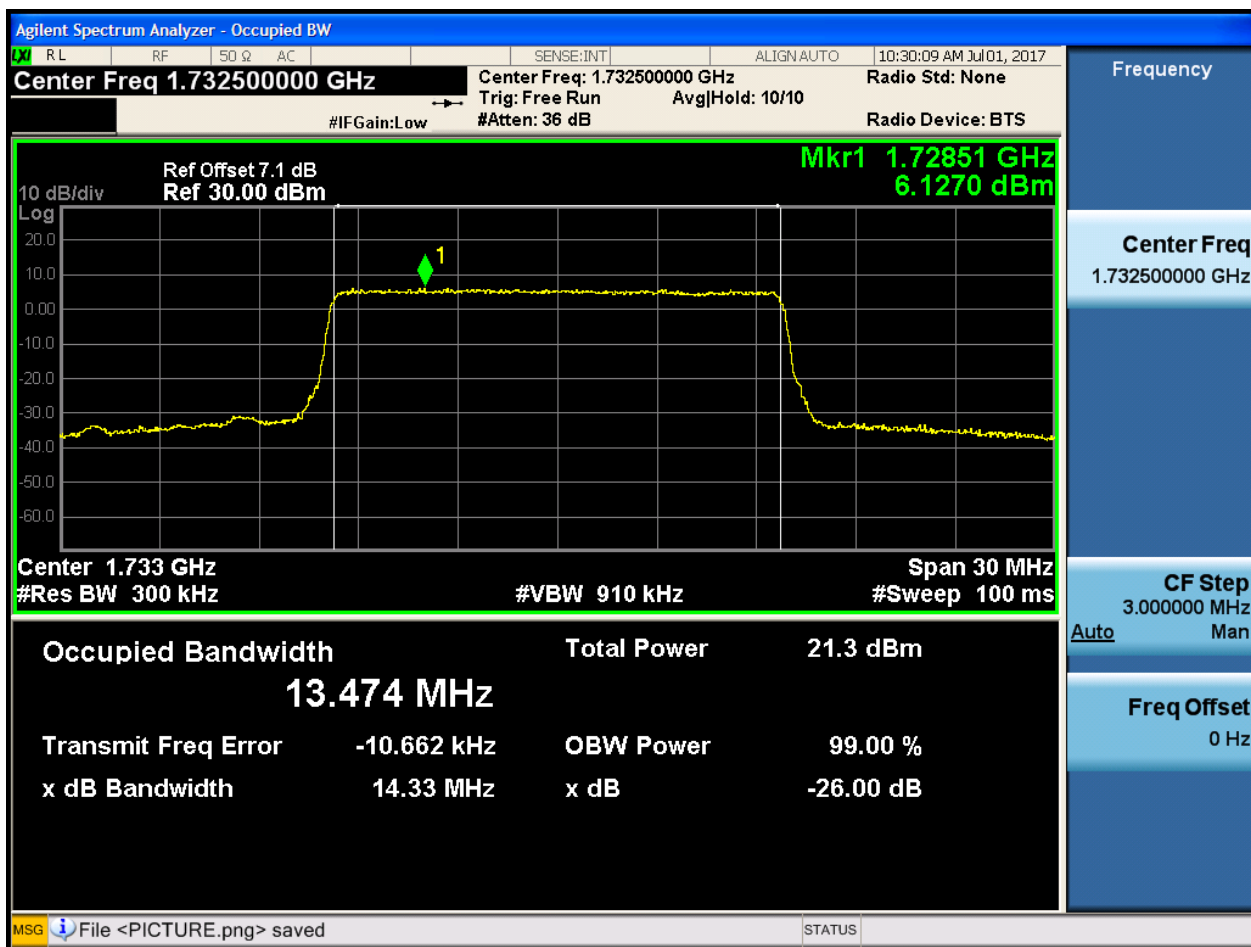
4.1.1.2.5.1.1 Test RB = RB75#0





4.1.1.2.5.2 Test Channel = MCH

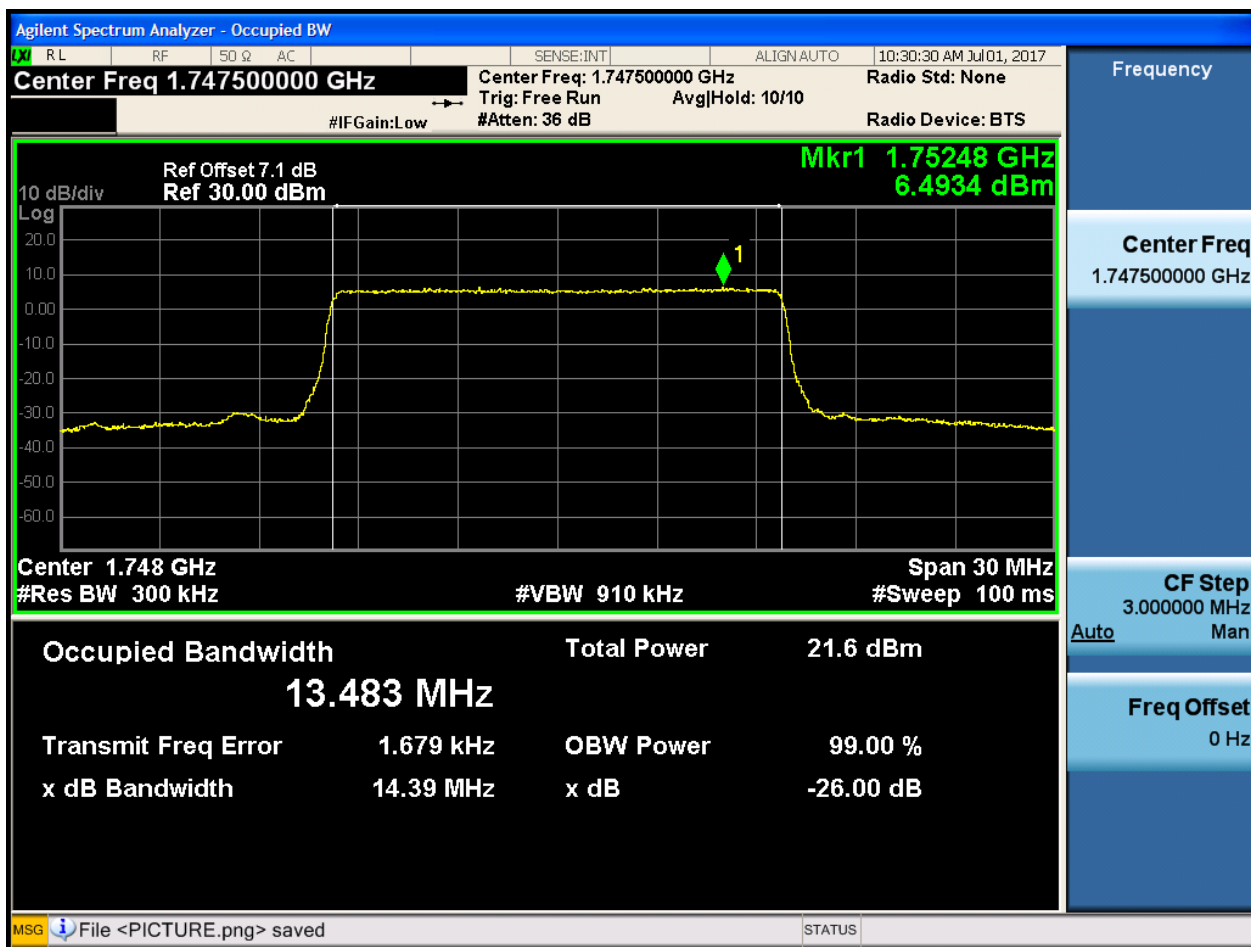
4.1.1.2.5.2.1 Test RB = RB75#0





4.1.1.2.5.3 Test Channel = HCH

4.1.1.2.5.3.1 Test RB = RB75#0

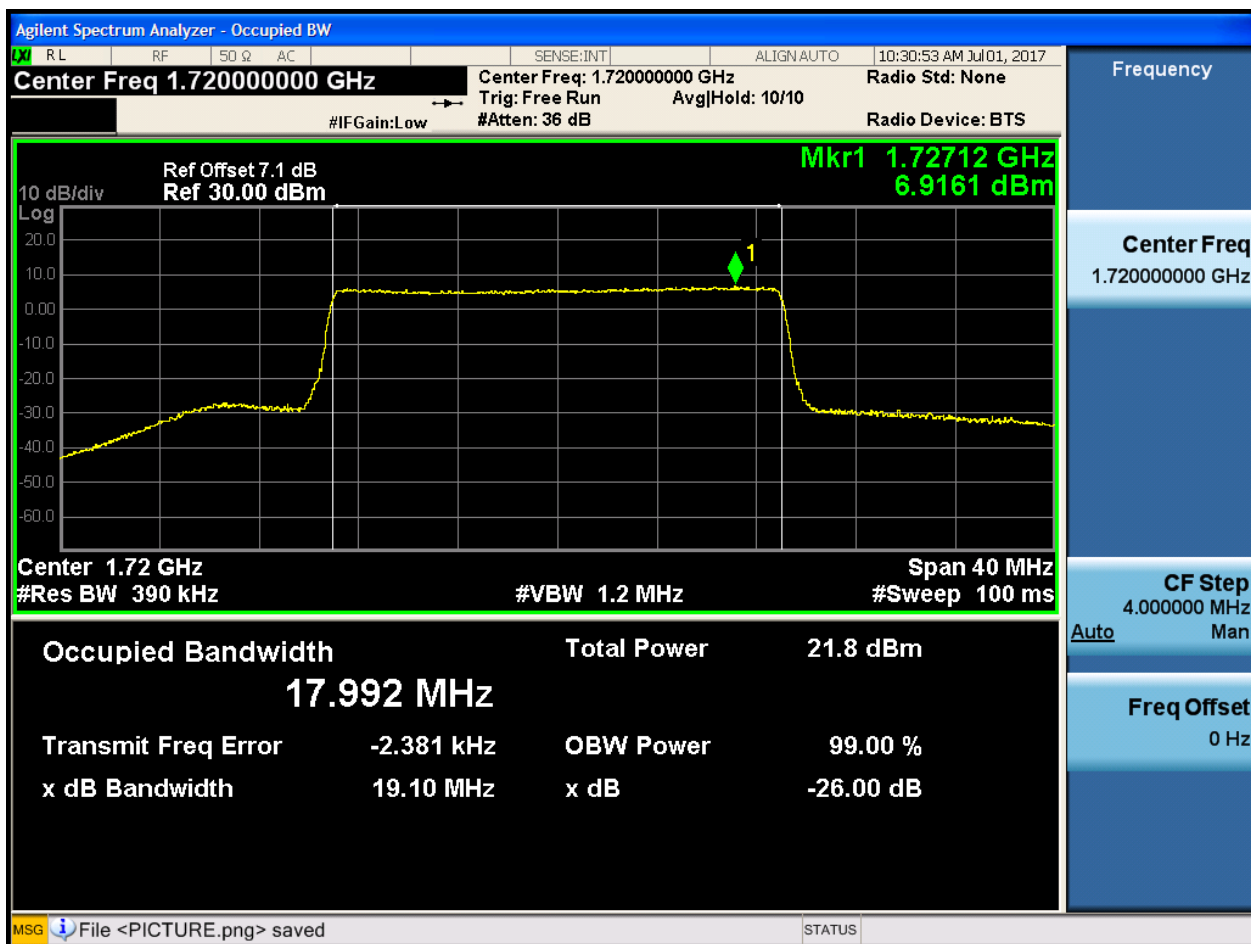




4.1.1.2.6 Test Bandwidth = 20

4.1.1.2.6.1 Test Channel = LCH

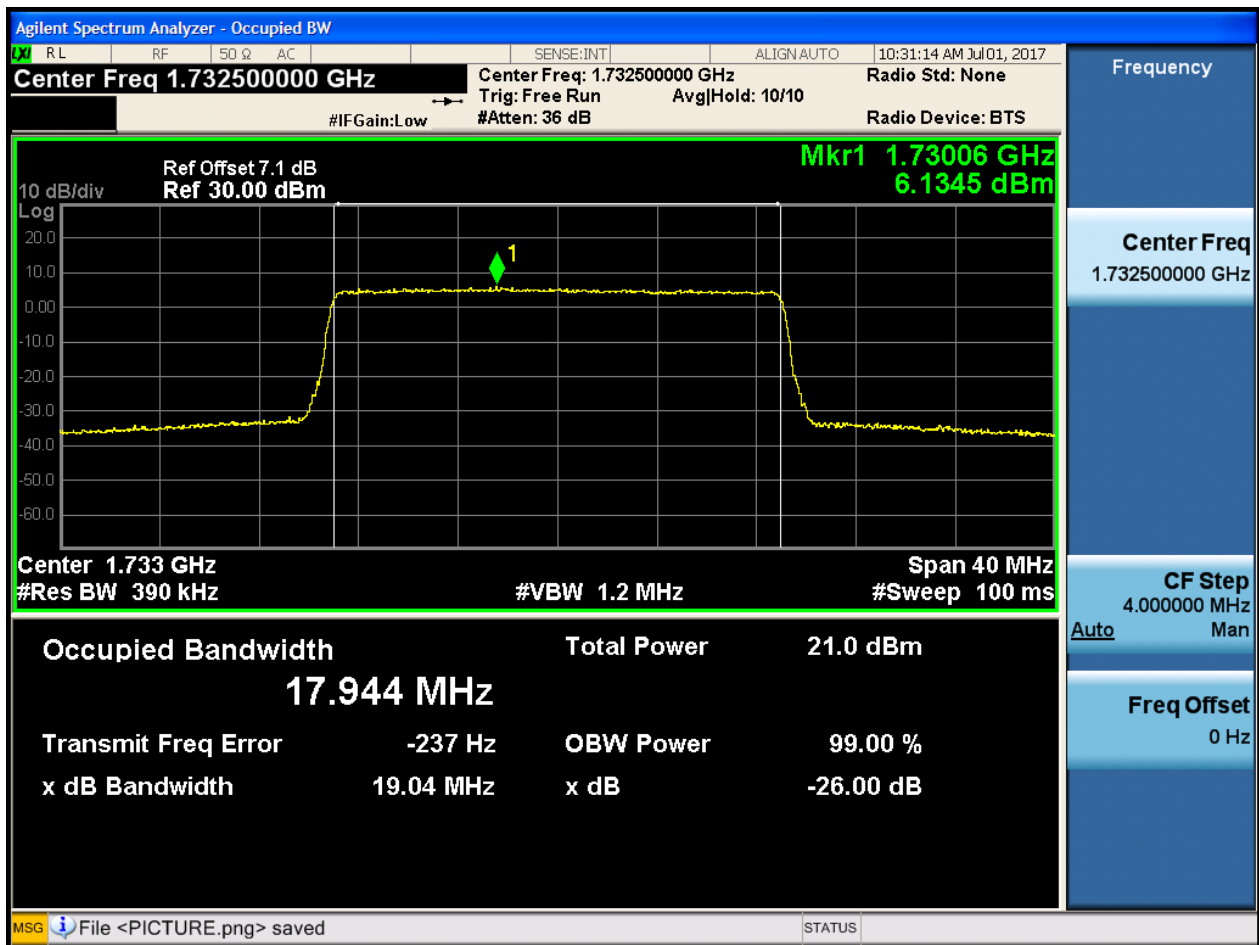
4.1.1.2.6.1.1 Test RB = RB100#0





4.1.1.2.6.2 Test Channel = MCH

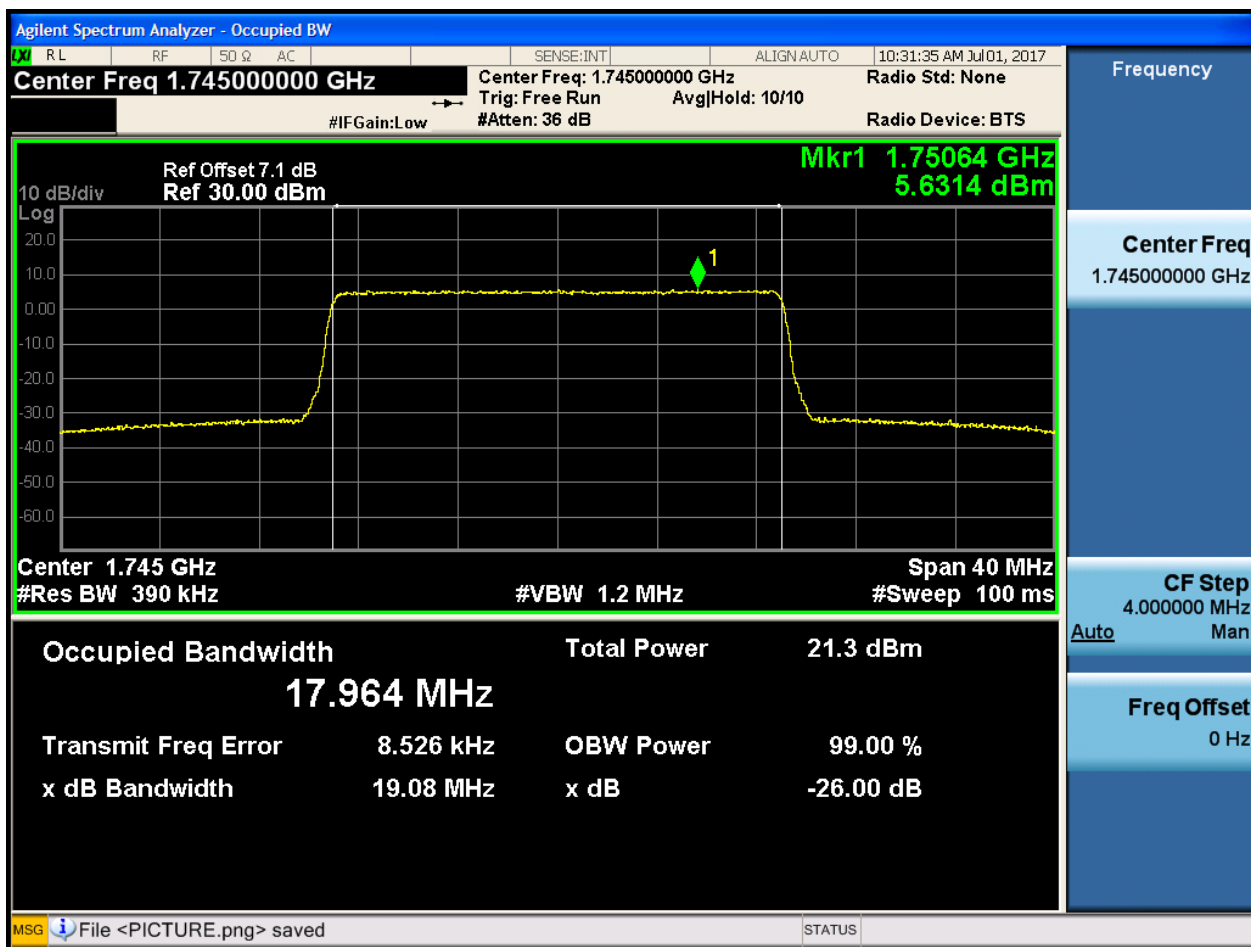
4.1.1.2.6.2.1 Test RB = RB100#0





4.1.1.2.6.3 Test Channel = HCH

4.1.1.2.6.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

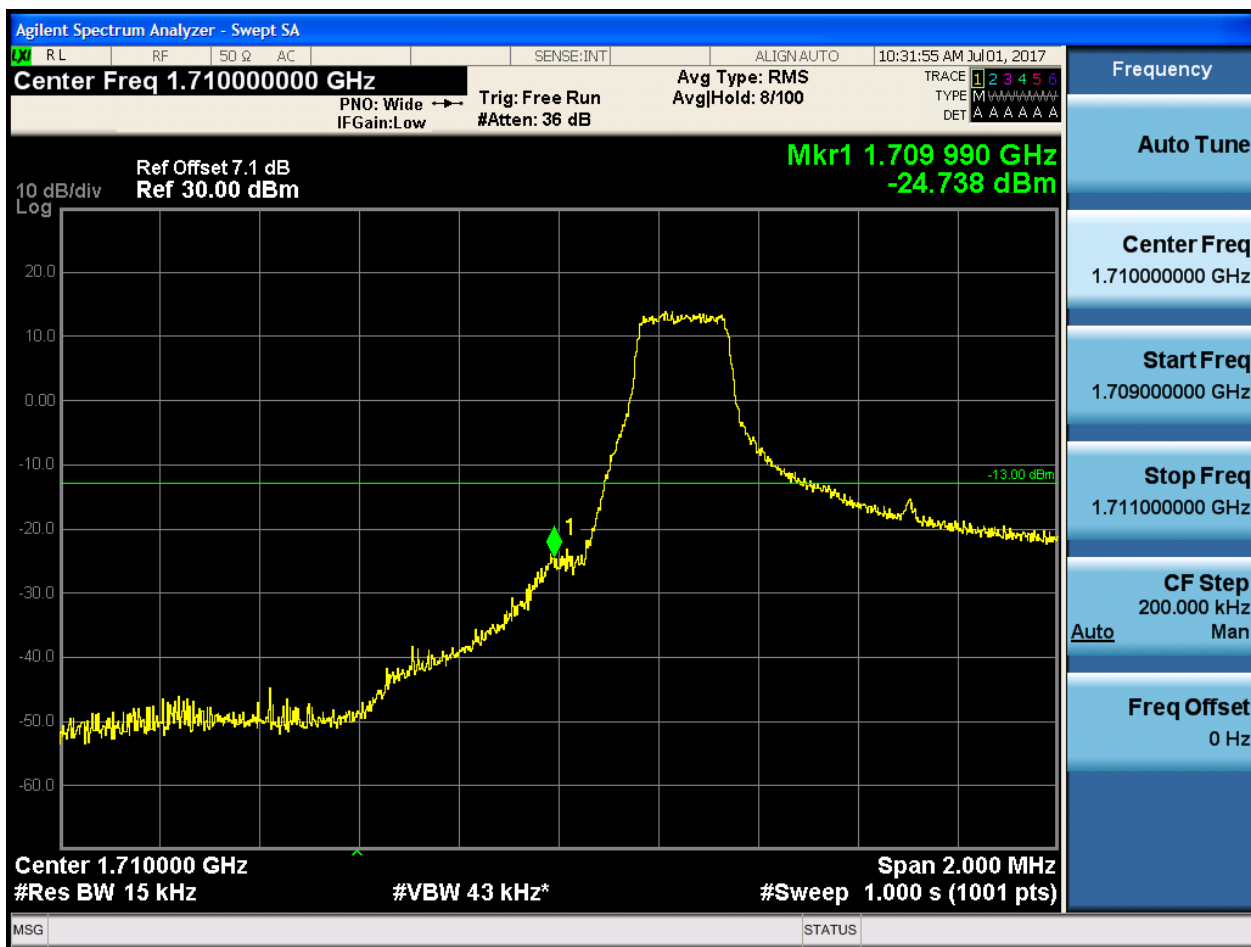
5.1.1 Test Band = BAND4

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

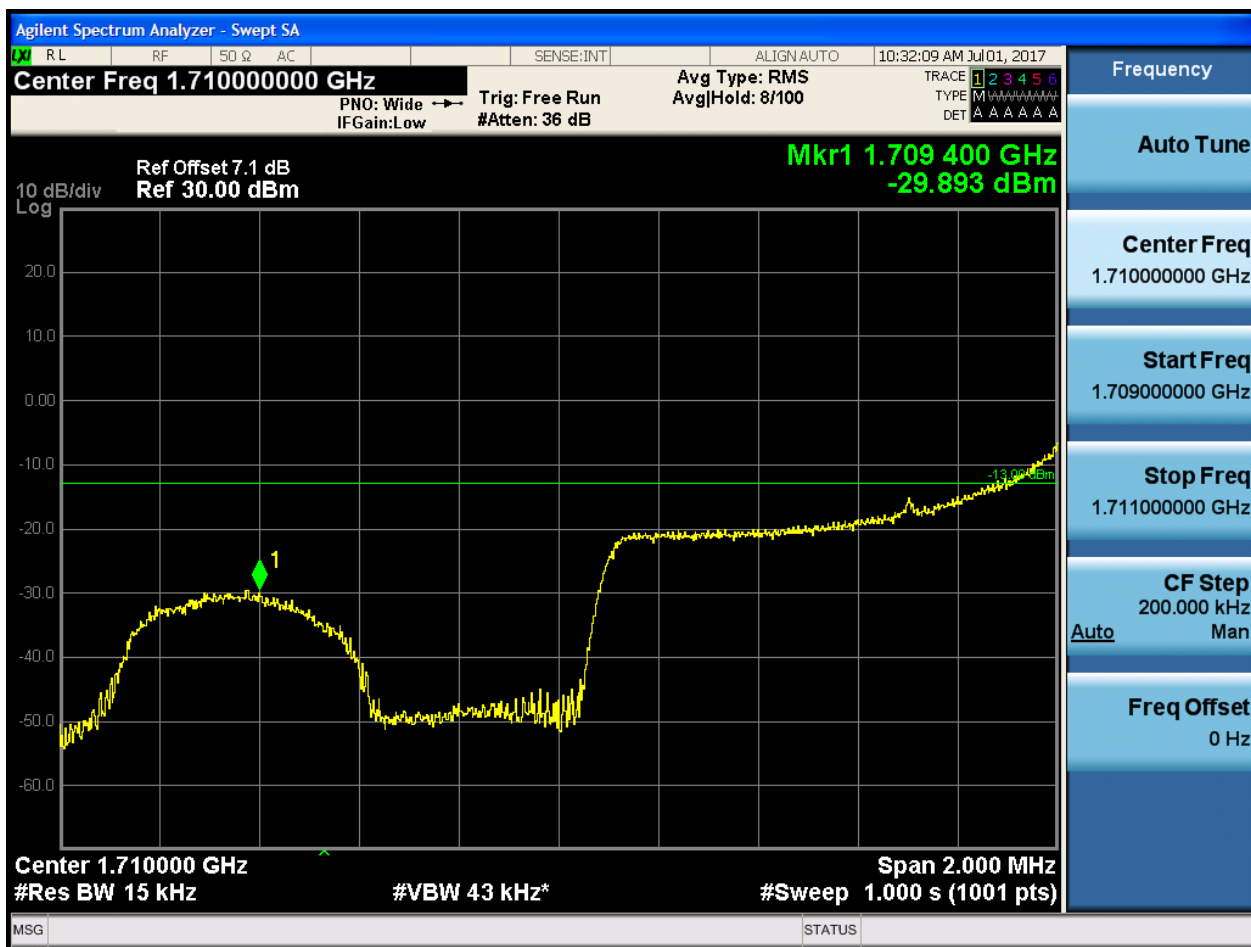
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



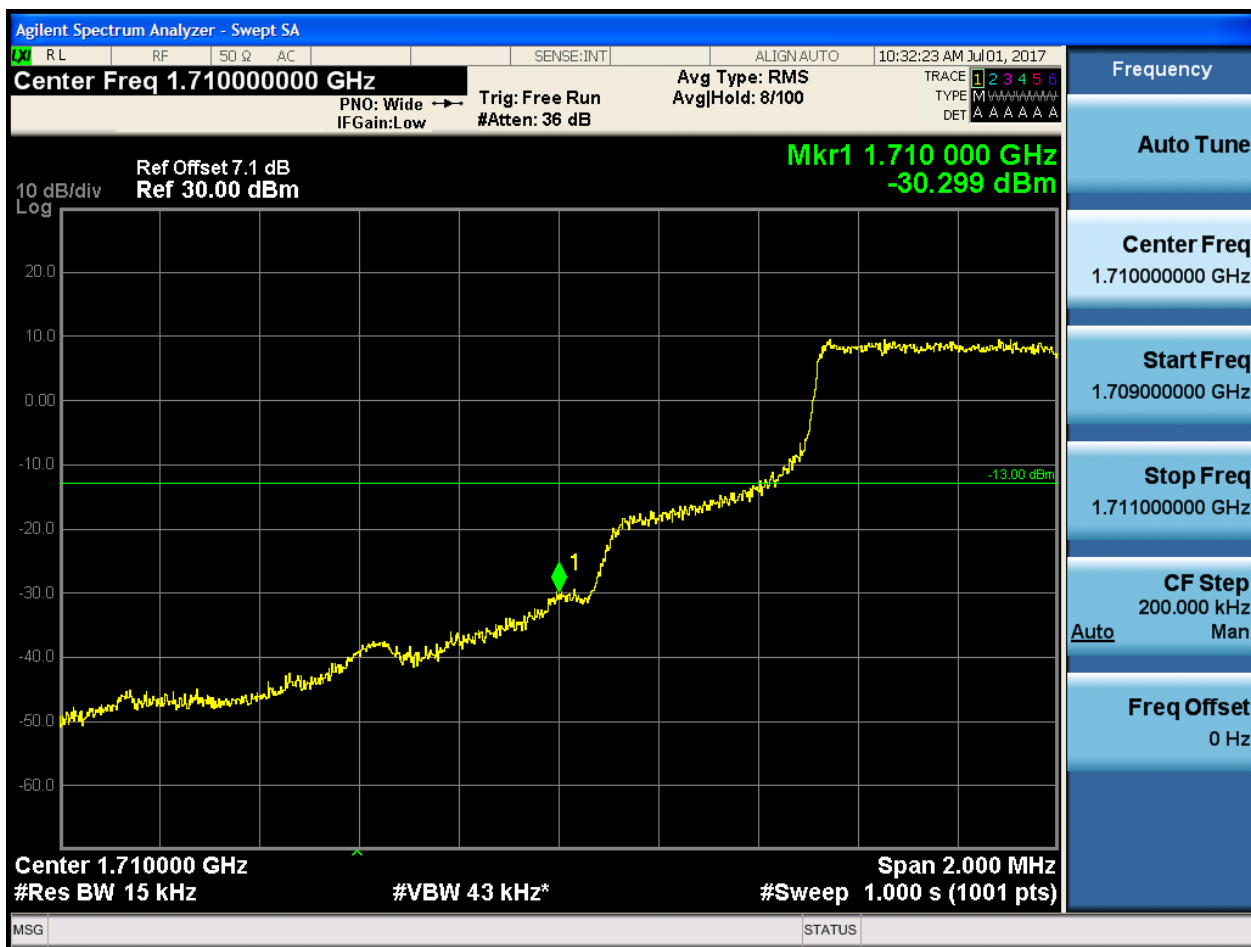


5.1.1.1.1.2 Test RB = RB1#5



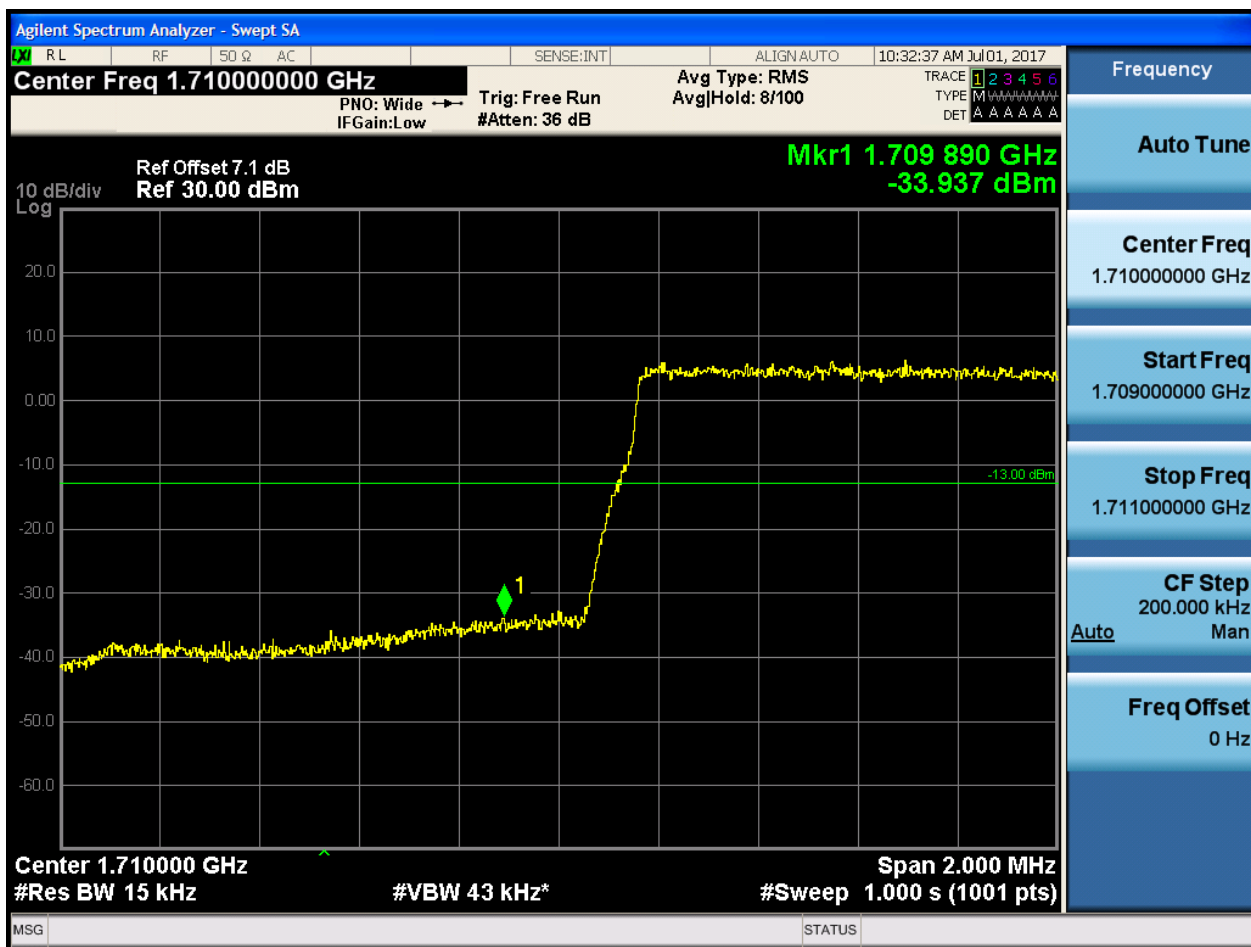


5.1.1.1.1.3 Test RB = RB3#2





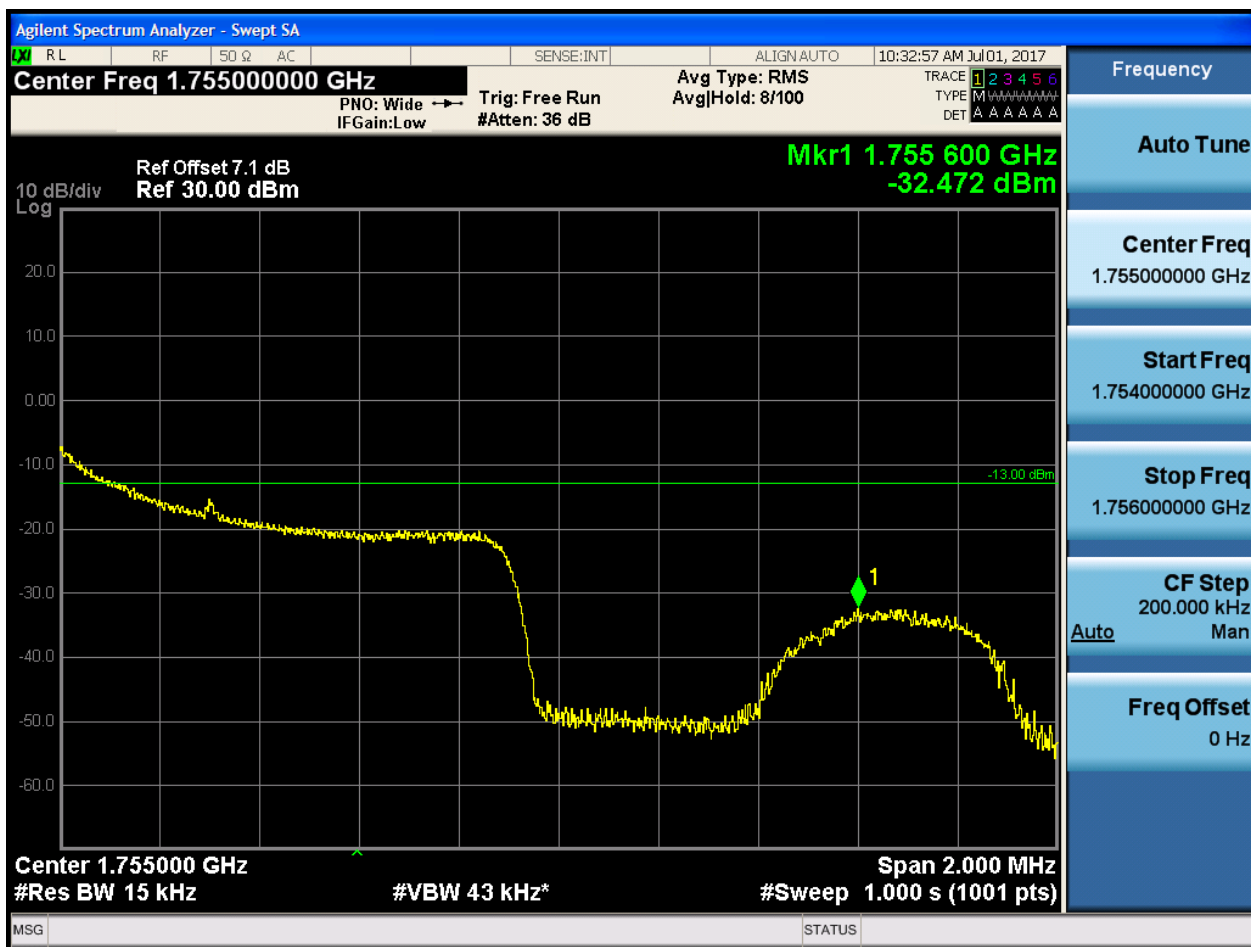
5.1.1.1.1.4 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 020 GHz
-24.894 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

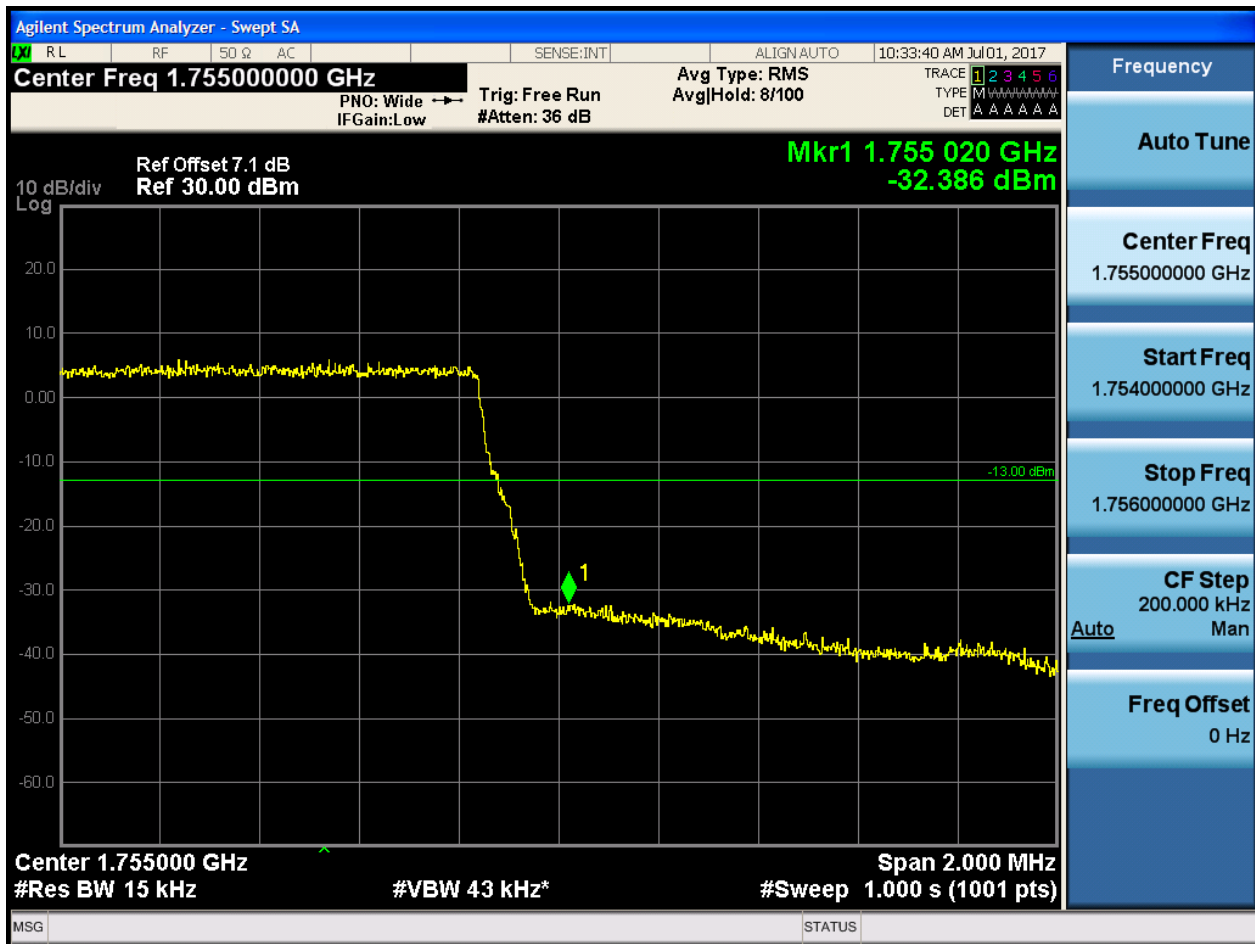


5.1.1.1.1.2.3 Test RB = RB3#2





5.1.1.1.2.4 Test RB = RB6#0

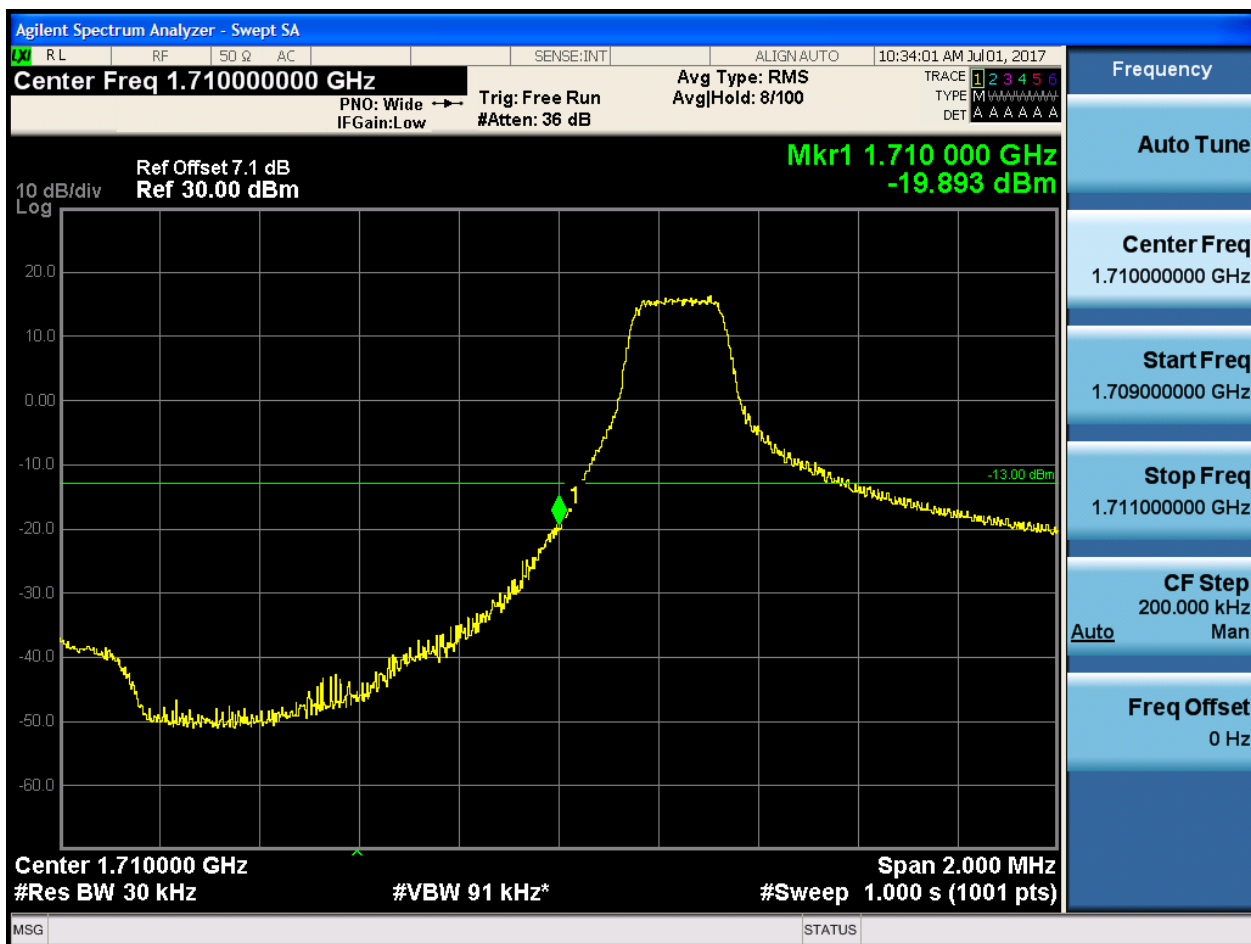




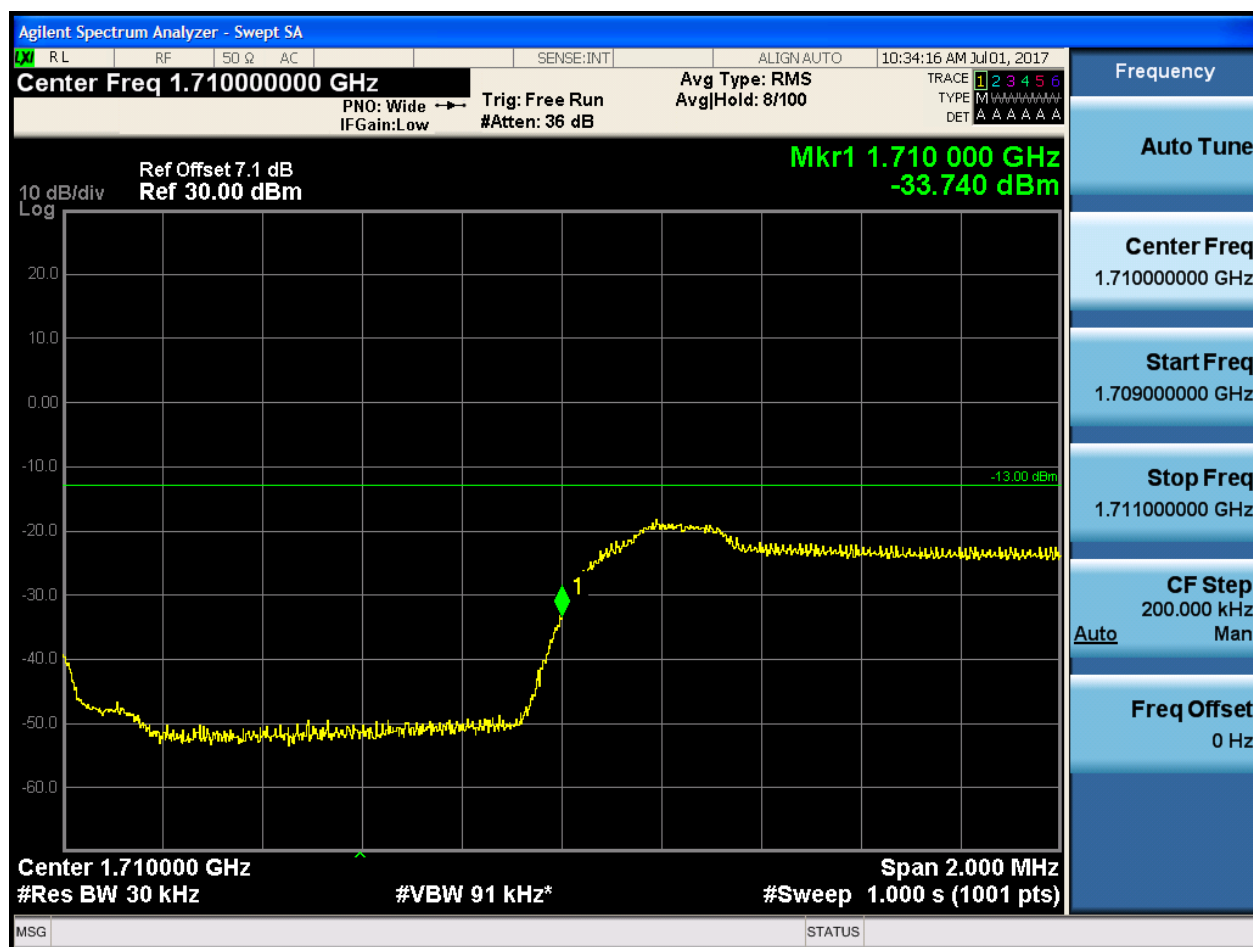
5.1.1.1.2 Test Bandwidth = 3

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0

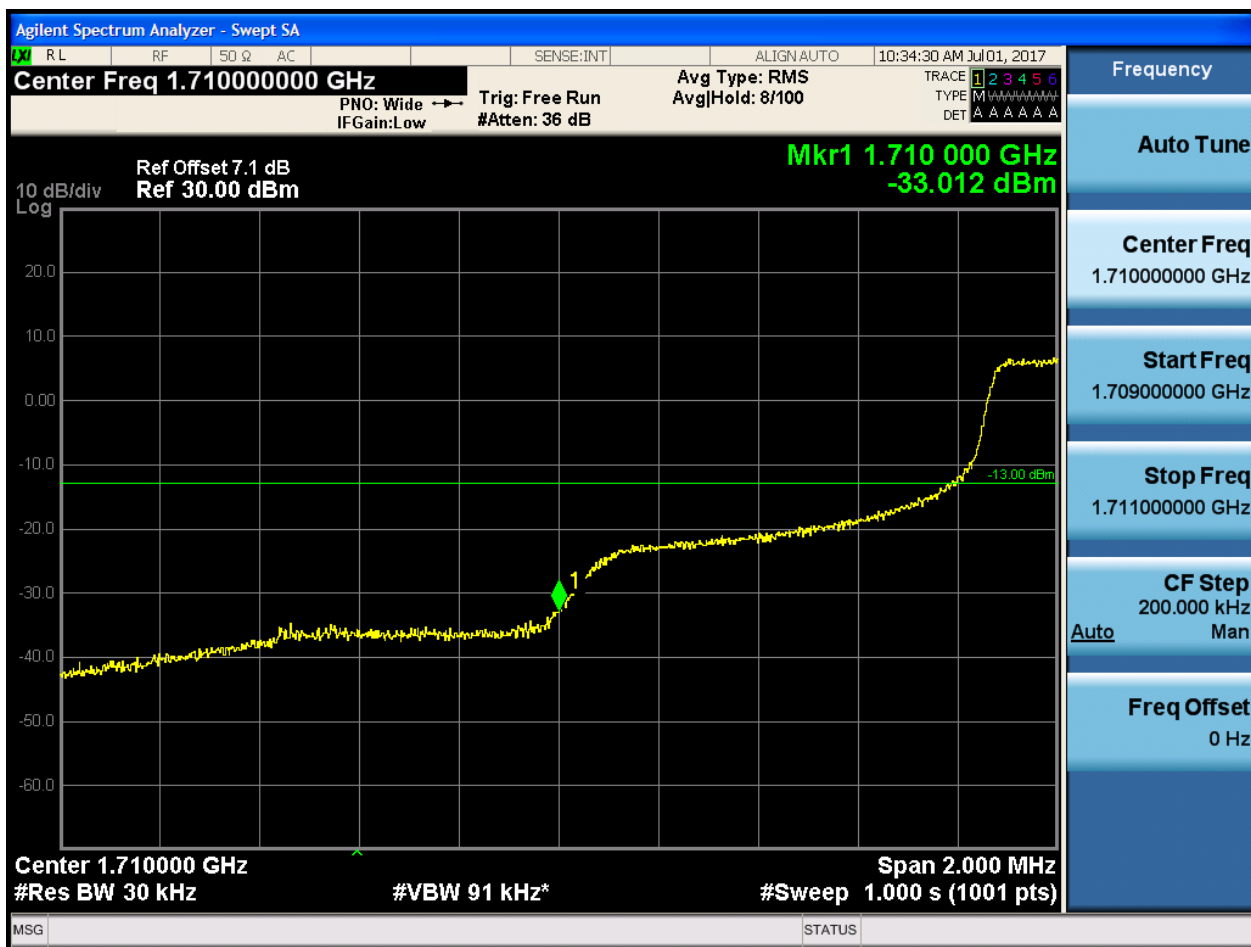


5.1.1.1.2.1.2 Test RB = RB1#14



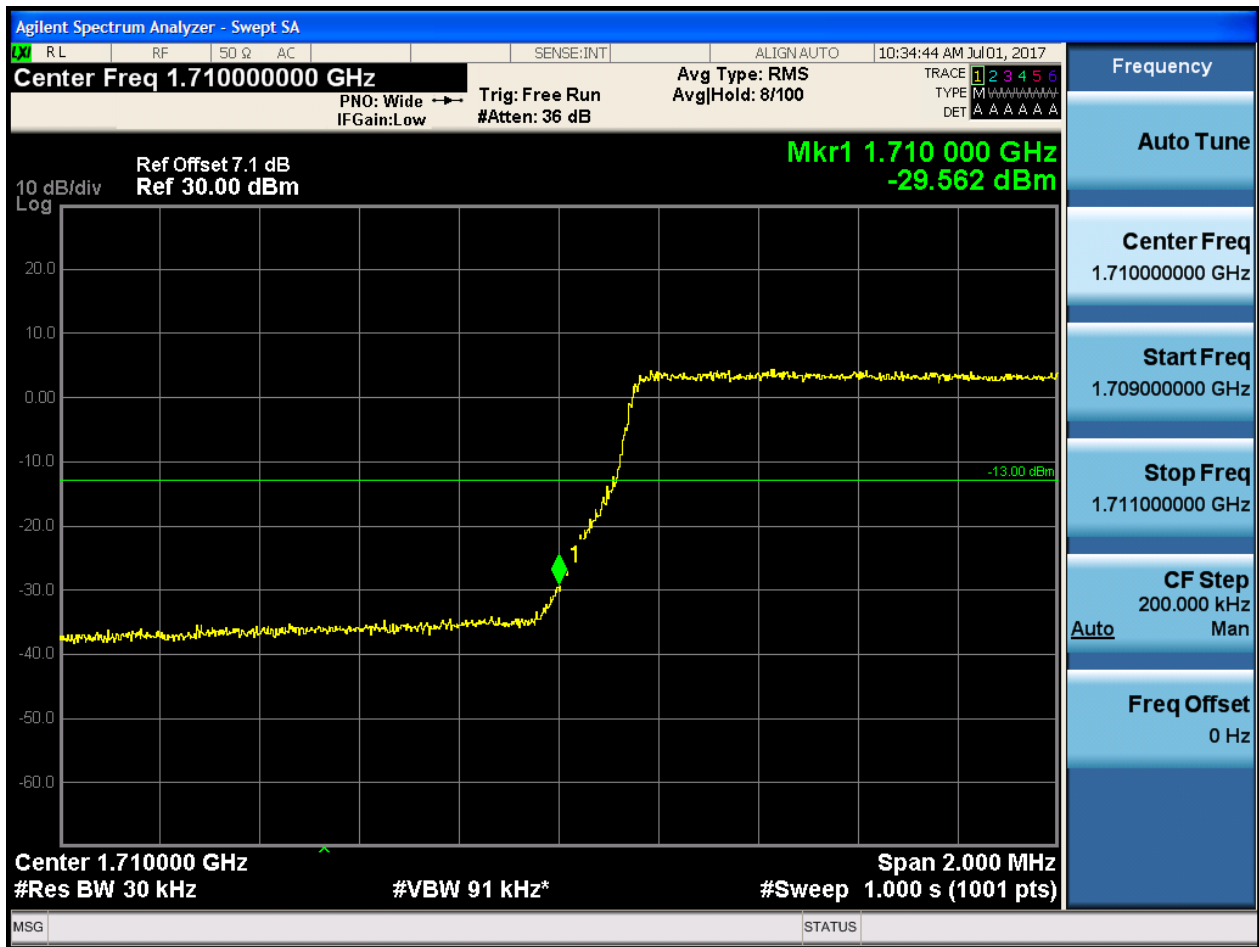


5.1.1.1.2.1.3 Test RB = RB8#4





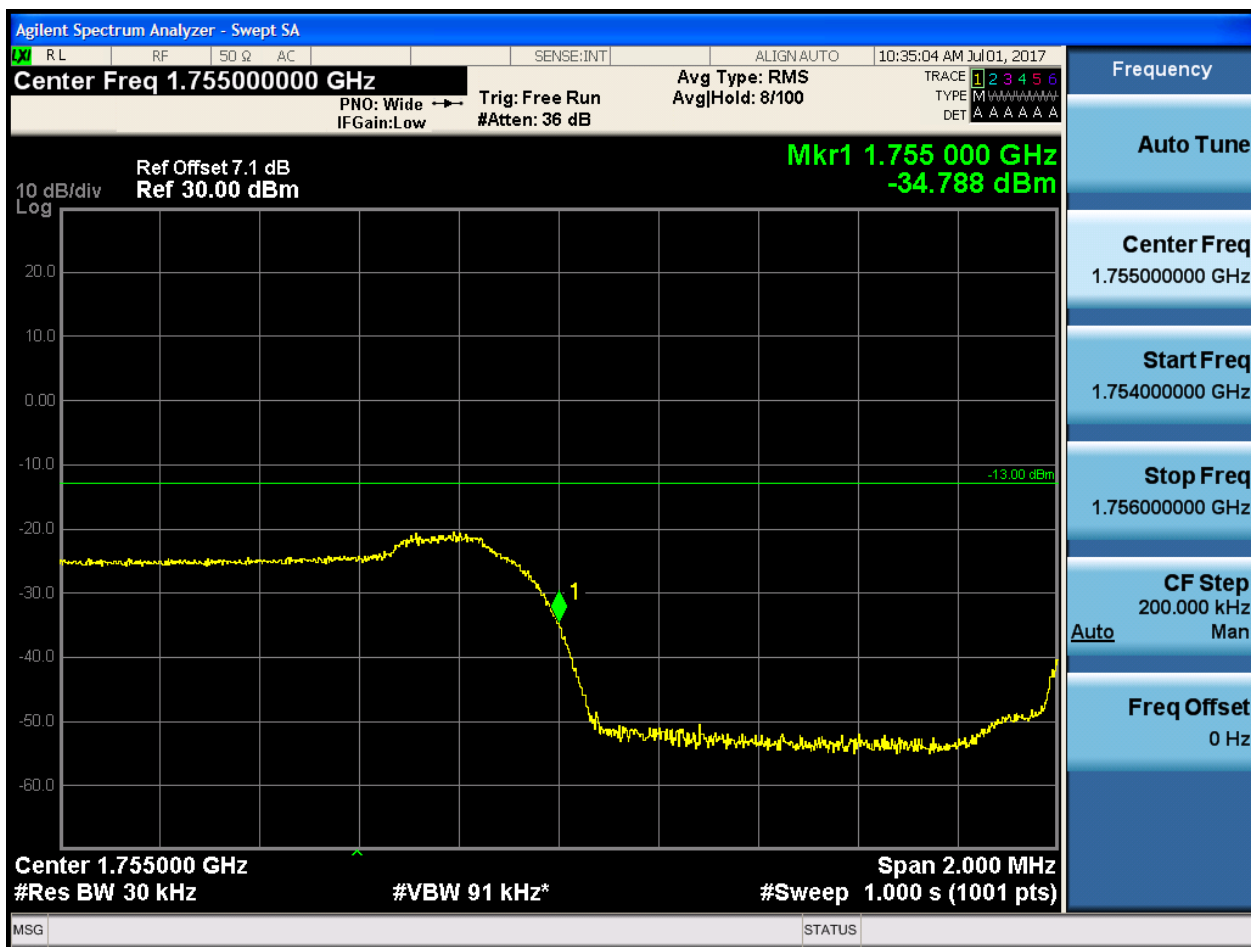
5.1.1.1.2.1.4 Test RB = RB15#0





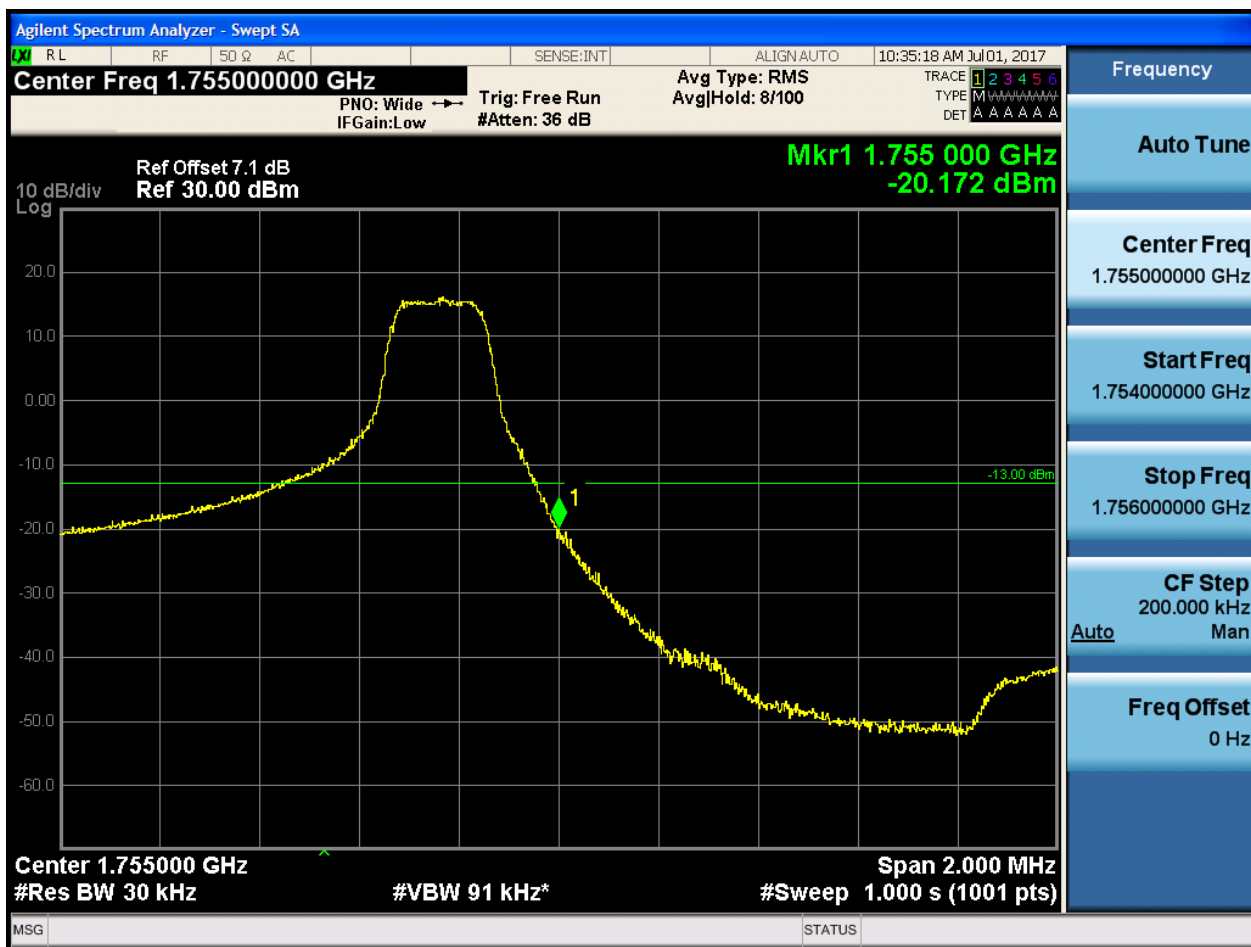
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





5.1.1.1.2.2.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-29.872 dBm

Center 1.755000 GHz
#Res BW 30 kHz
#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

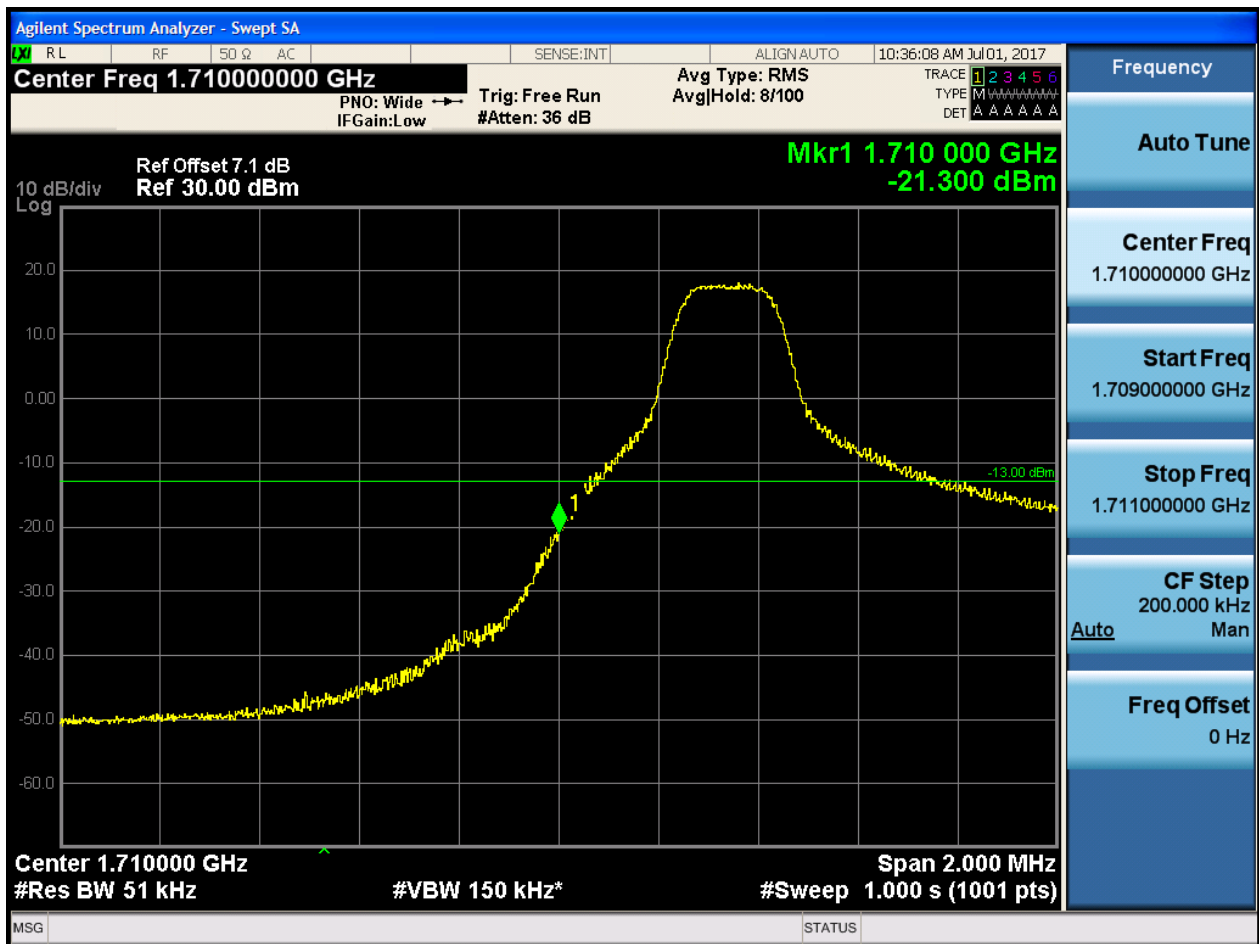
MSG STATUS



5.1.1.1.3 Test Bandwidth = 5

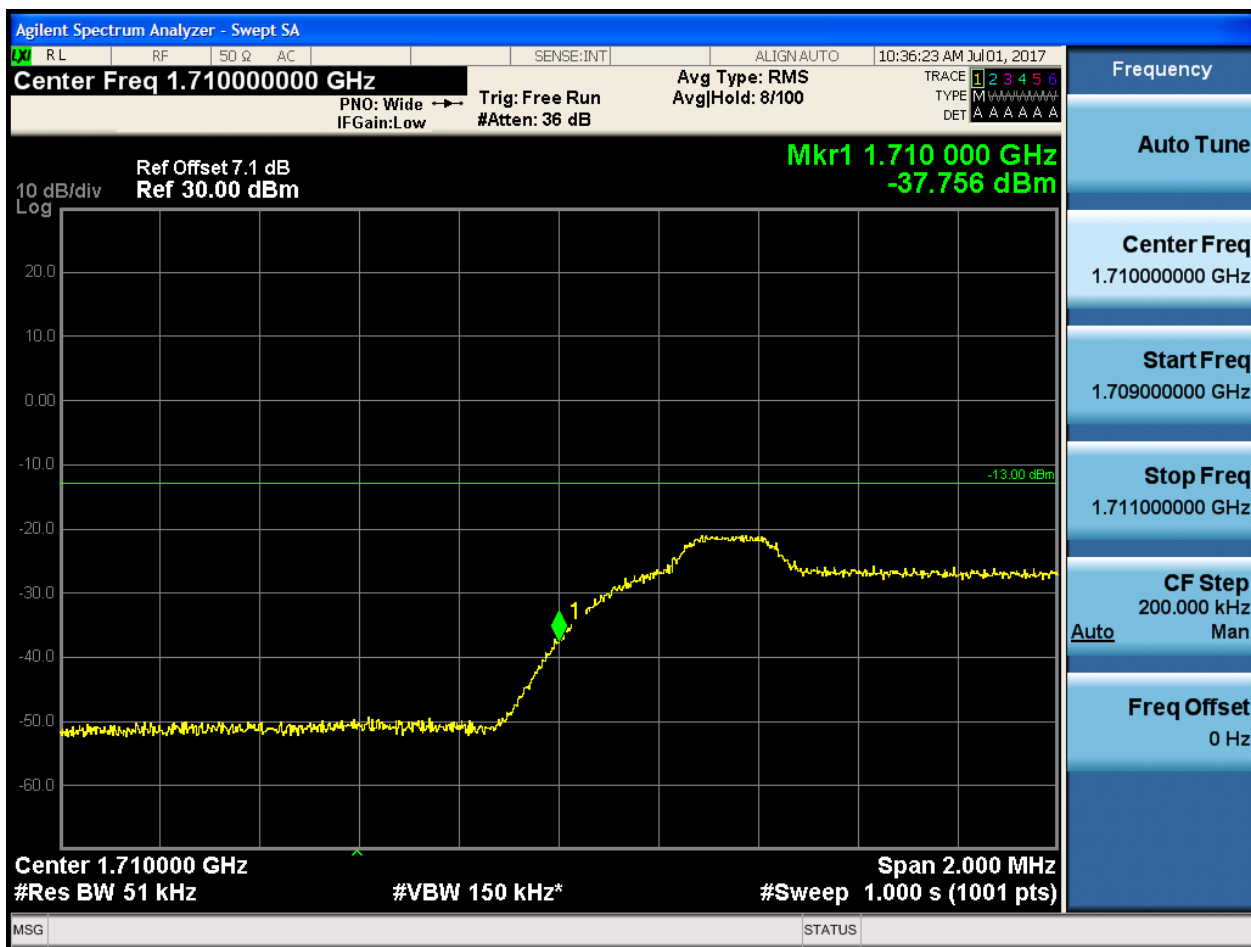
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0



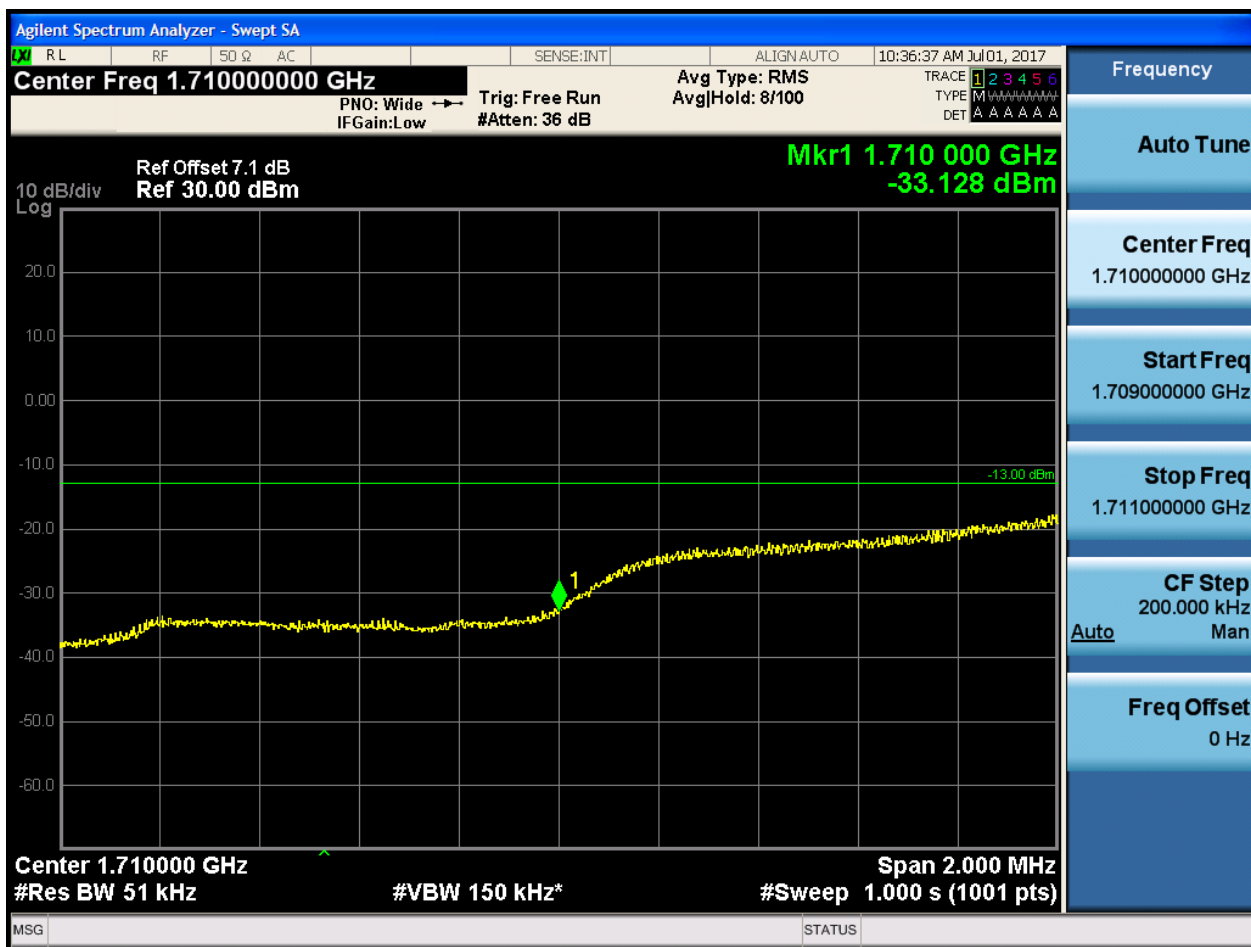


5.1.1.1.3.1.2 Test RB = RB1#24





5.1.1.1.3.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:36:51 AM Jul 01, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#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 7.1 dB
Ref 30.00 dBm

Mkr1 1.710 000 GHz
-29.842 dBm

10 dB/div
Log

Center 1.710000 GHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

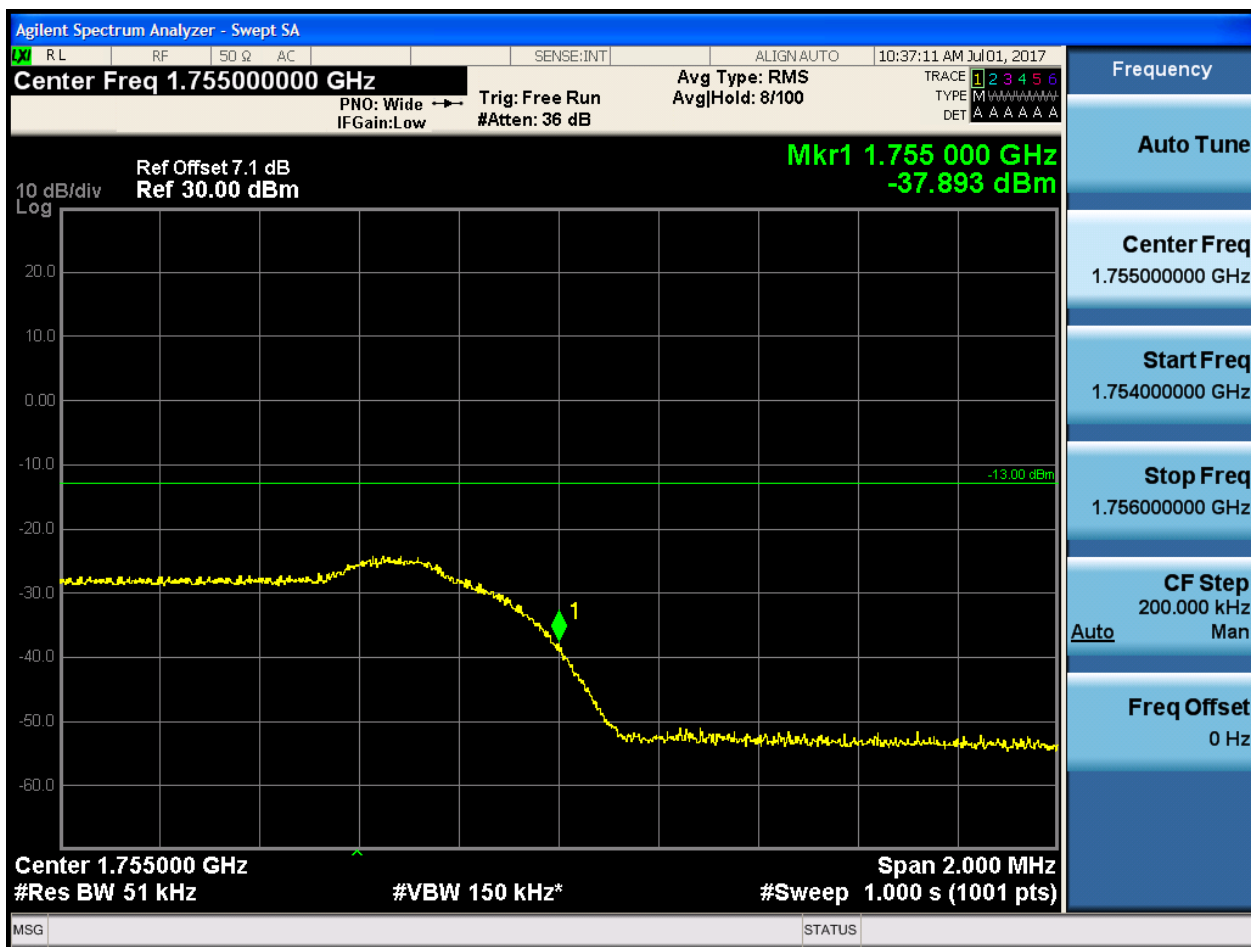
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



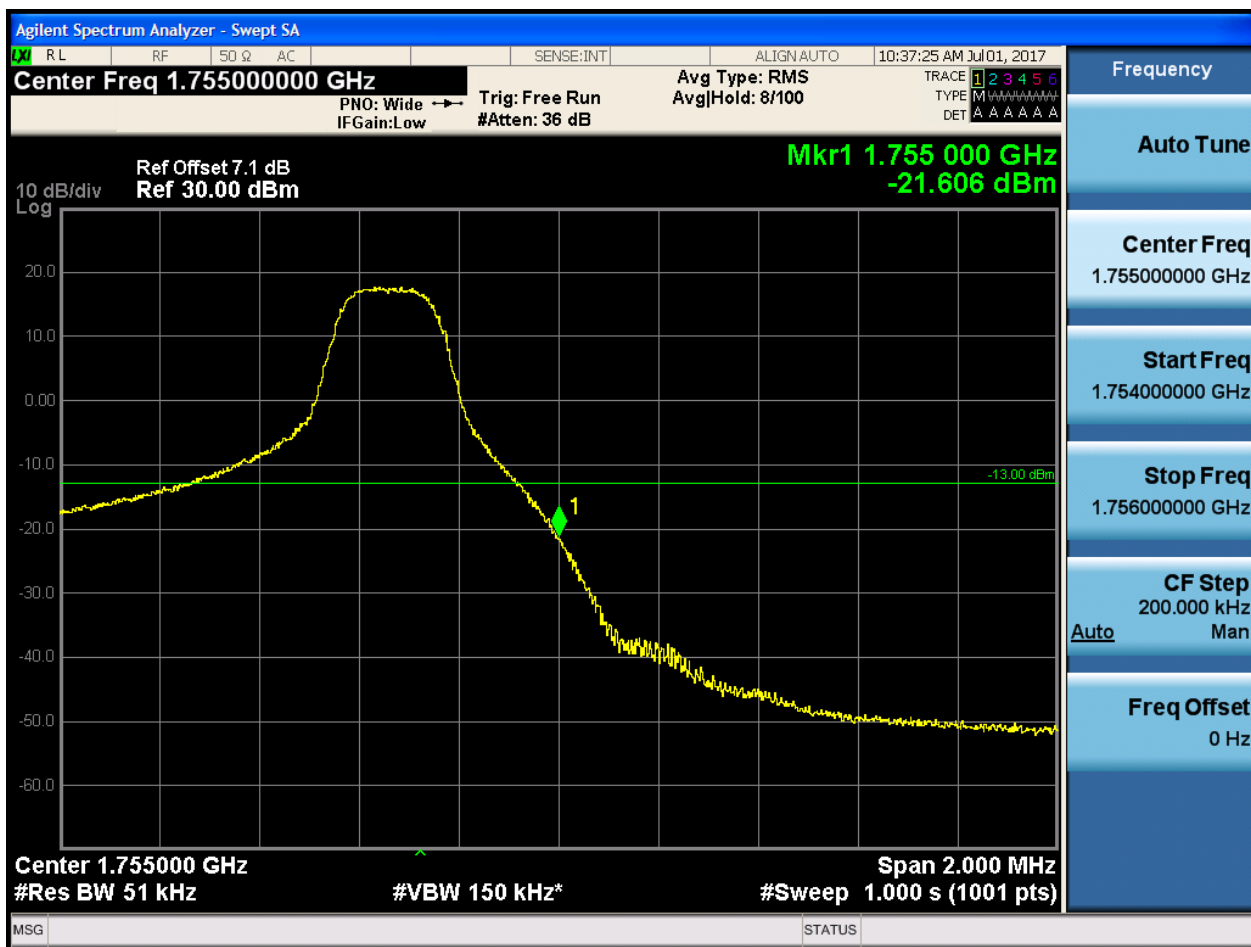
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:37:39 AM Jul 01, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#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 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 000 GHz
-33.731 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq
1.755000000 GHz
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz



5.1.1.1.3.2.4 Test RB = RB25#0

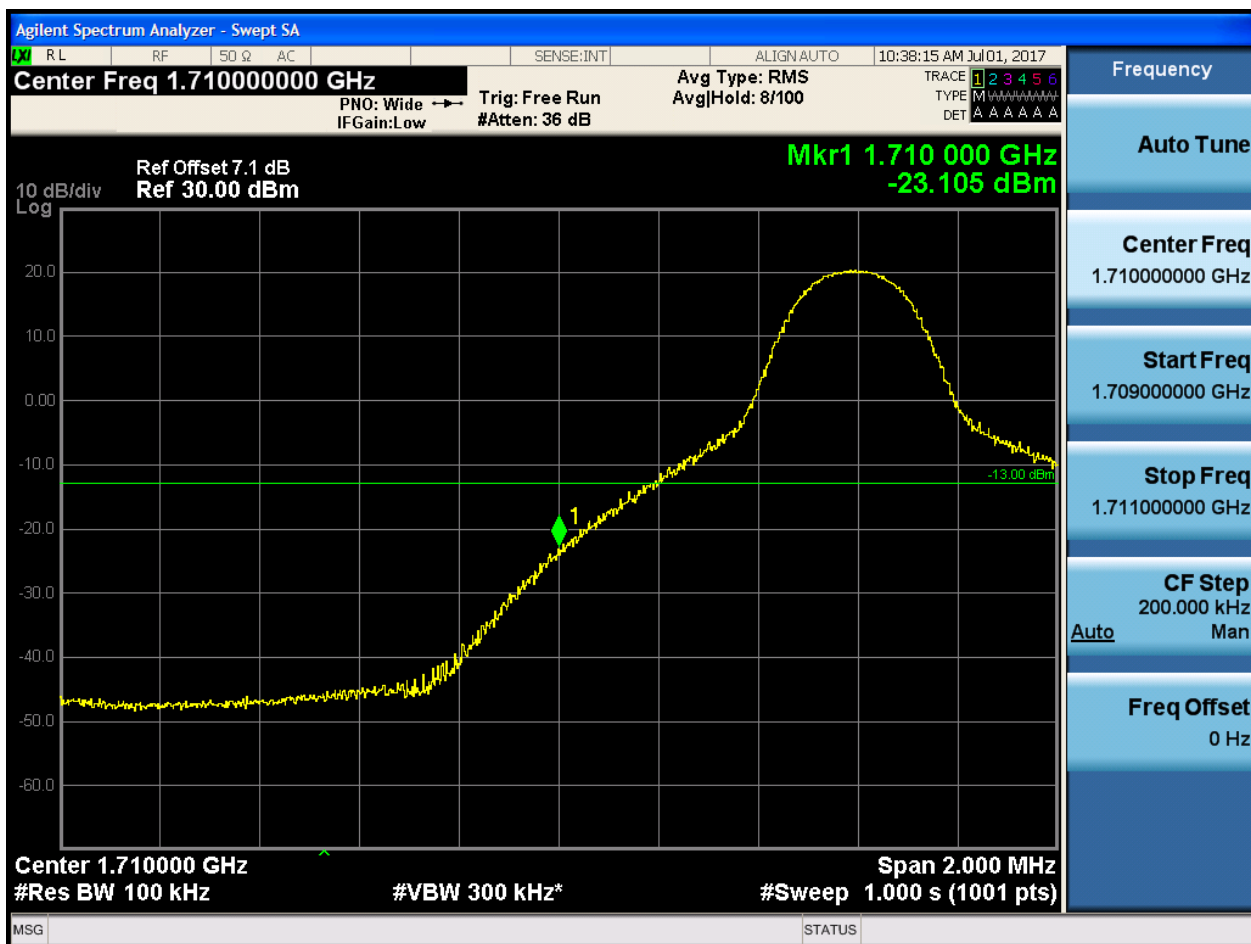




5.1.1.1.4 Test Bandwidth = 10

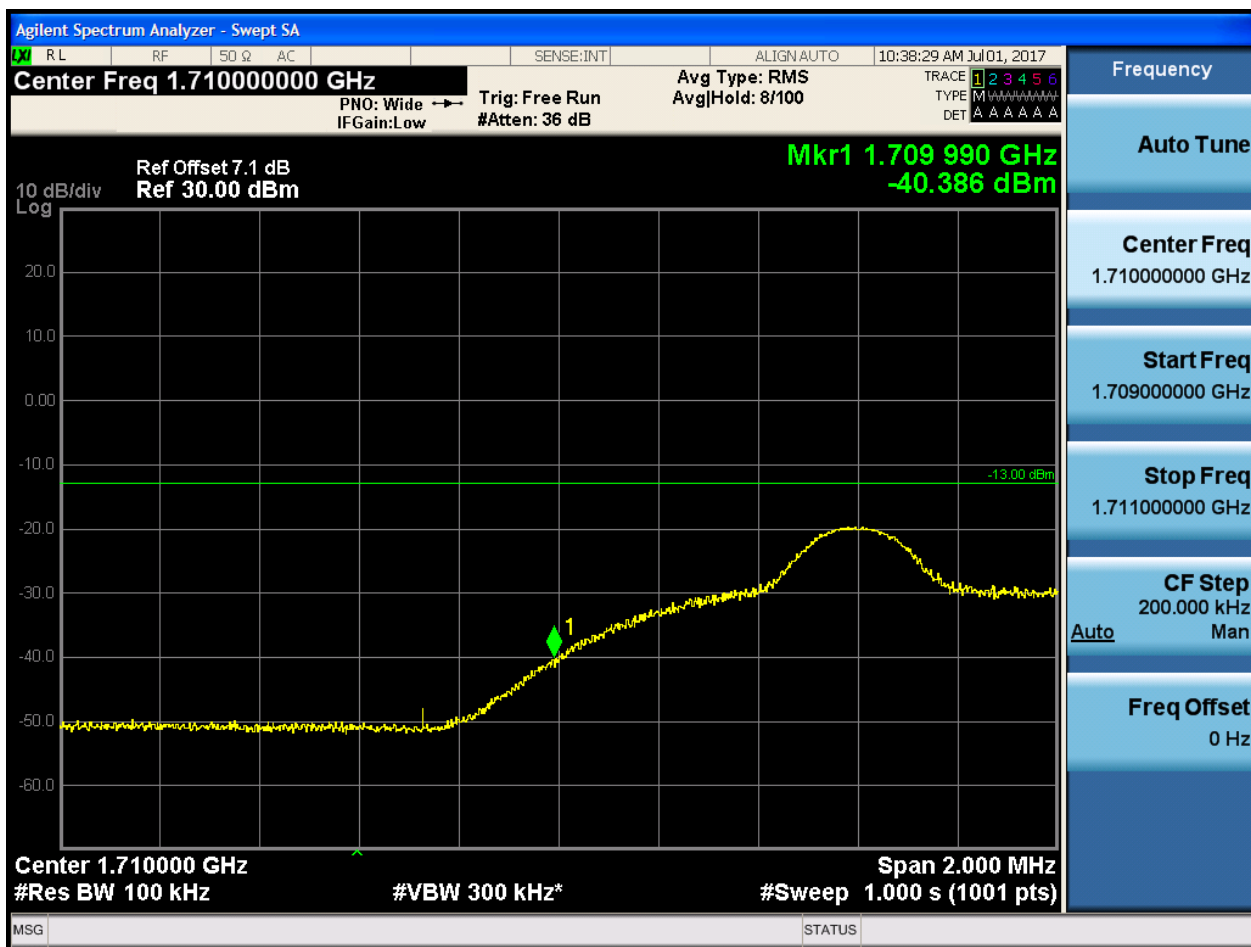
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0



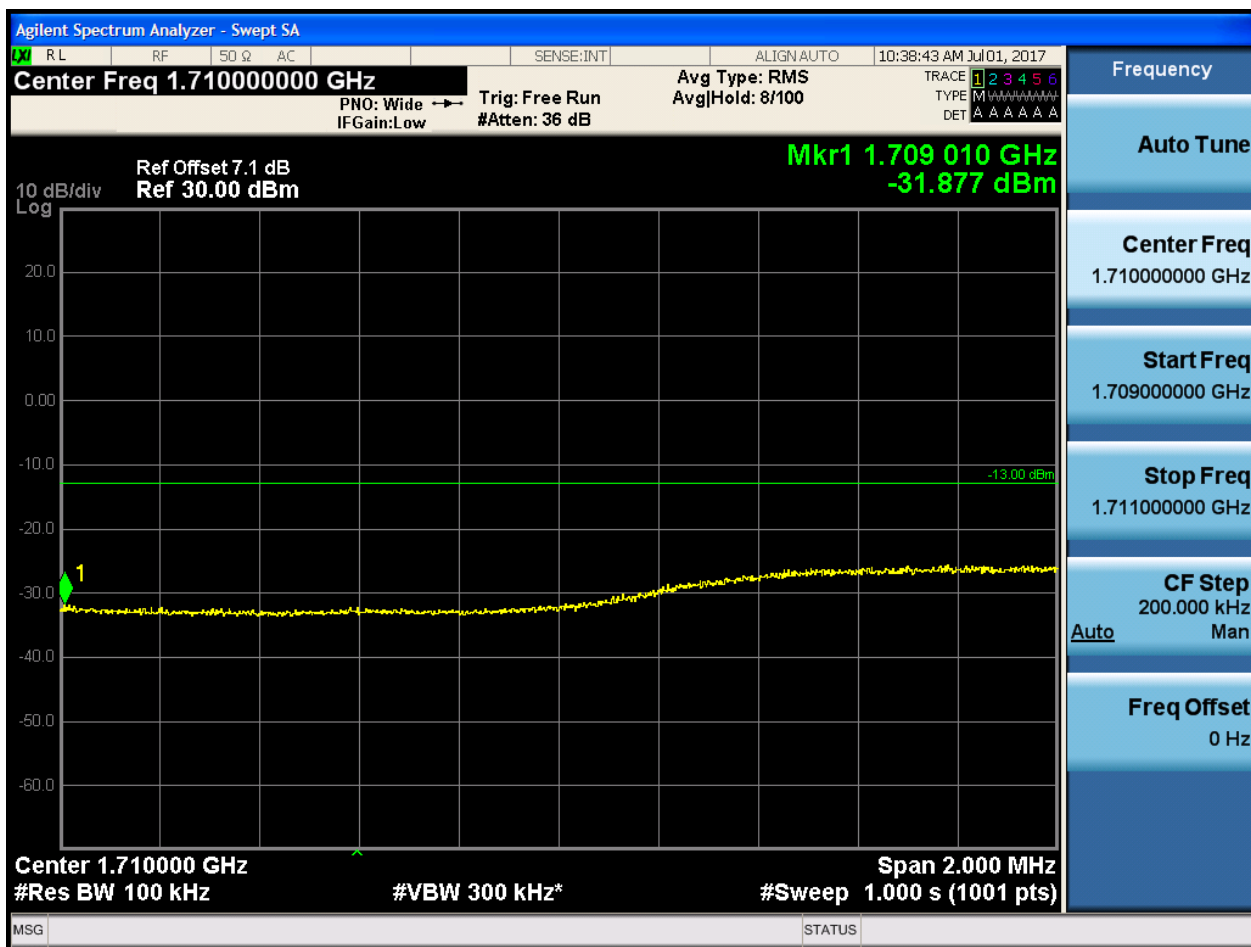


5.1.1.1.4.1.2 Test RB = RB1#49





5.1.1.1.4.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 000 GHz
-31.470 dBm

Center 1.710000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto Man

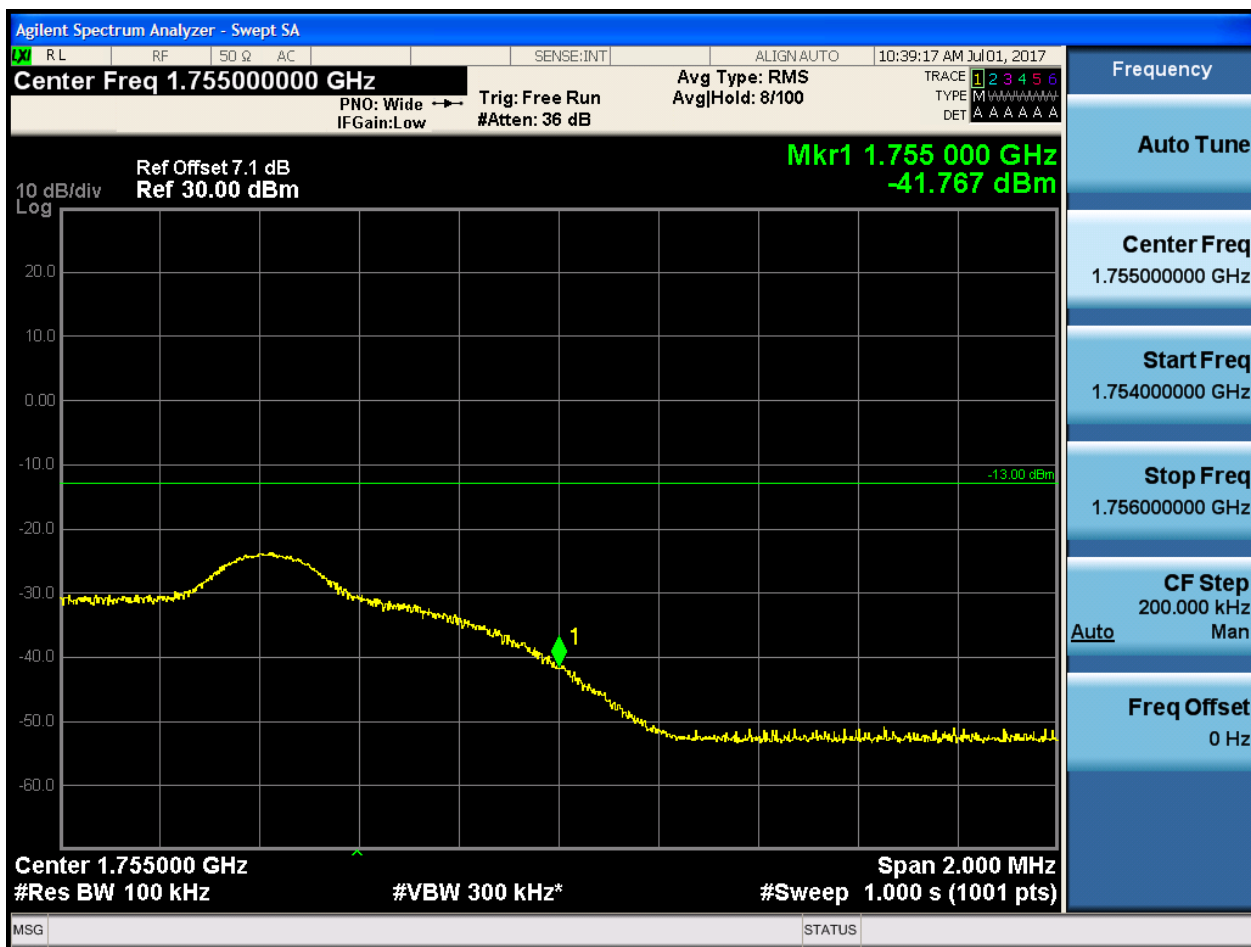
Freq Offset
0 Hz

The image displays the front panel of an Agilent Spectrum Analyzer in a swept mode. The main display area shows a frequency spectrum plot with a yellow trace. The trace starts at a low level of approximately -31.47 dBm at 1.710 GHz and rises sharply to a higher level of -13.00 dBm by 1.711 GHz. The plot is overlaid on a grid. The vertical axis is labeled '10 dB/div' and 'Log'. The horizontal axis represents frequency. To the right of the plot, there are several control panels. The top panel shows 'Auto Tune' and 'Center Freq' set to 1.710000000 GHz. Below this, the 'Start Freq' is 1.709000000 GHz and the 'Stop Freq' is 1.711000000 GHz. The 'CF Step' (Center Frequency Step) is set to 200.000 kHz, with 'Auto' and 'Man' (Manual) options. The 'Freq Offset' is set to 0 Hz. At the bottom of the right panel, there are fields for 'MSG' and 'STATUS'. The top of the screen shows the 'Center Freq' and 'Ref Offset' settings. The bottom of the screen shows the 'Center', 'Res BW', 'VBW', 'Span', and 'Sweep' parameters.



5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-24.441 dBm

Center 1.755000 GHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

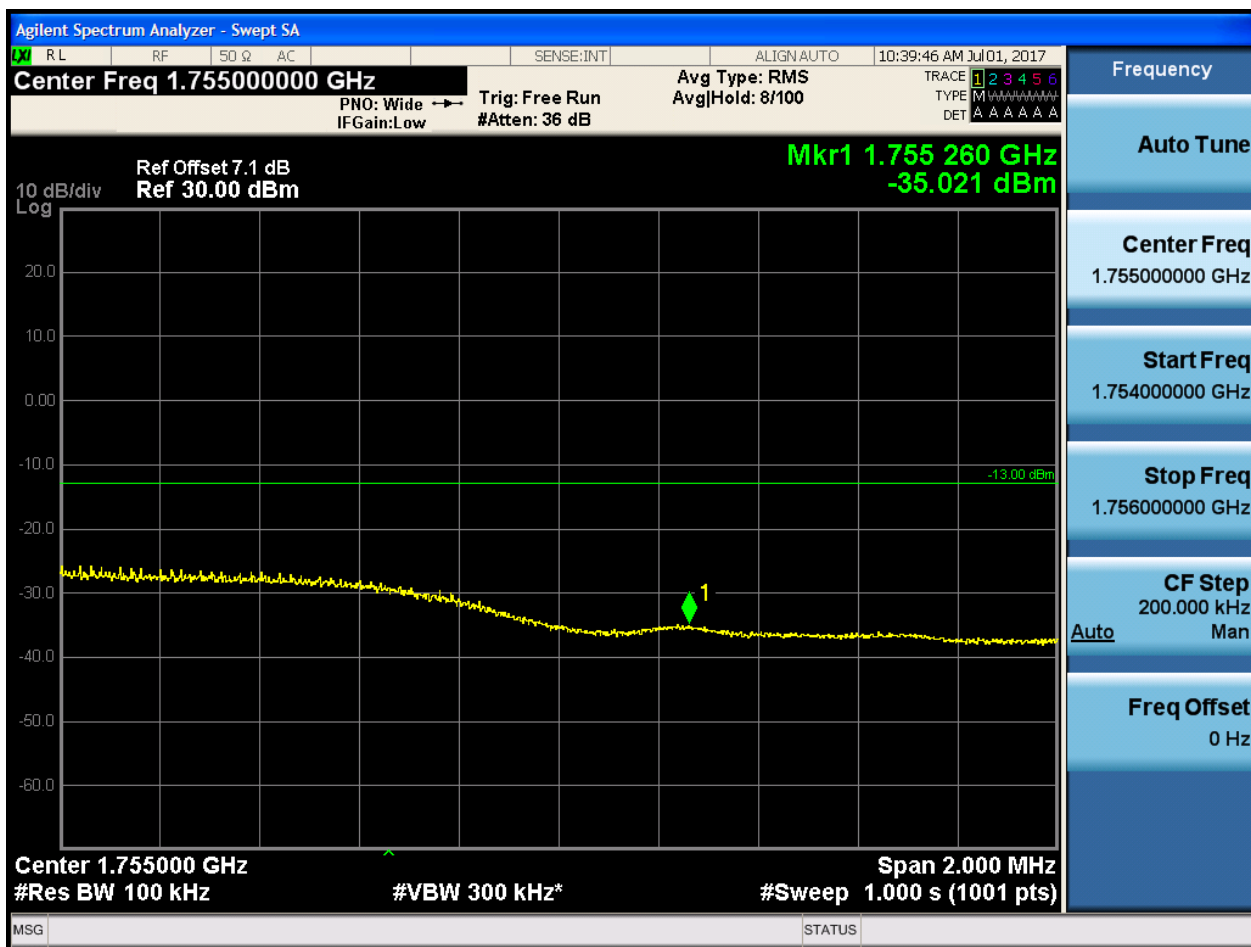
Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0

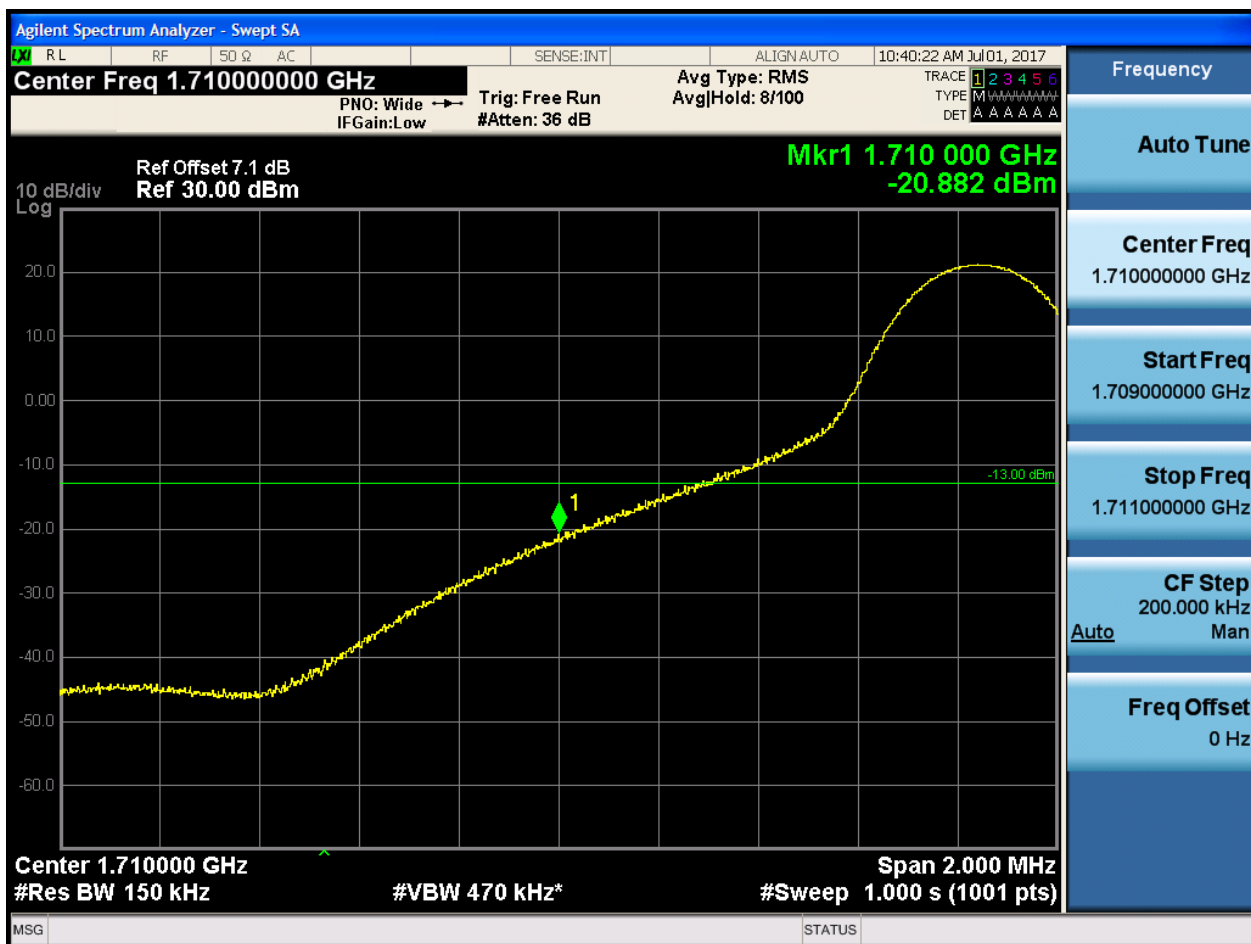




5.1.1.1.5 Test Bandwidth = 15

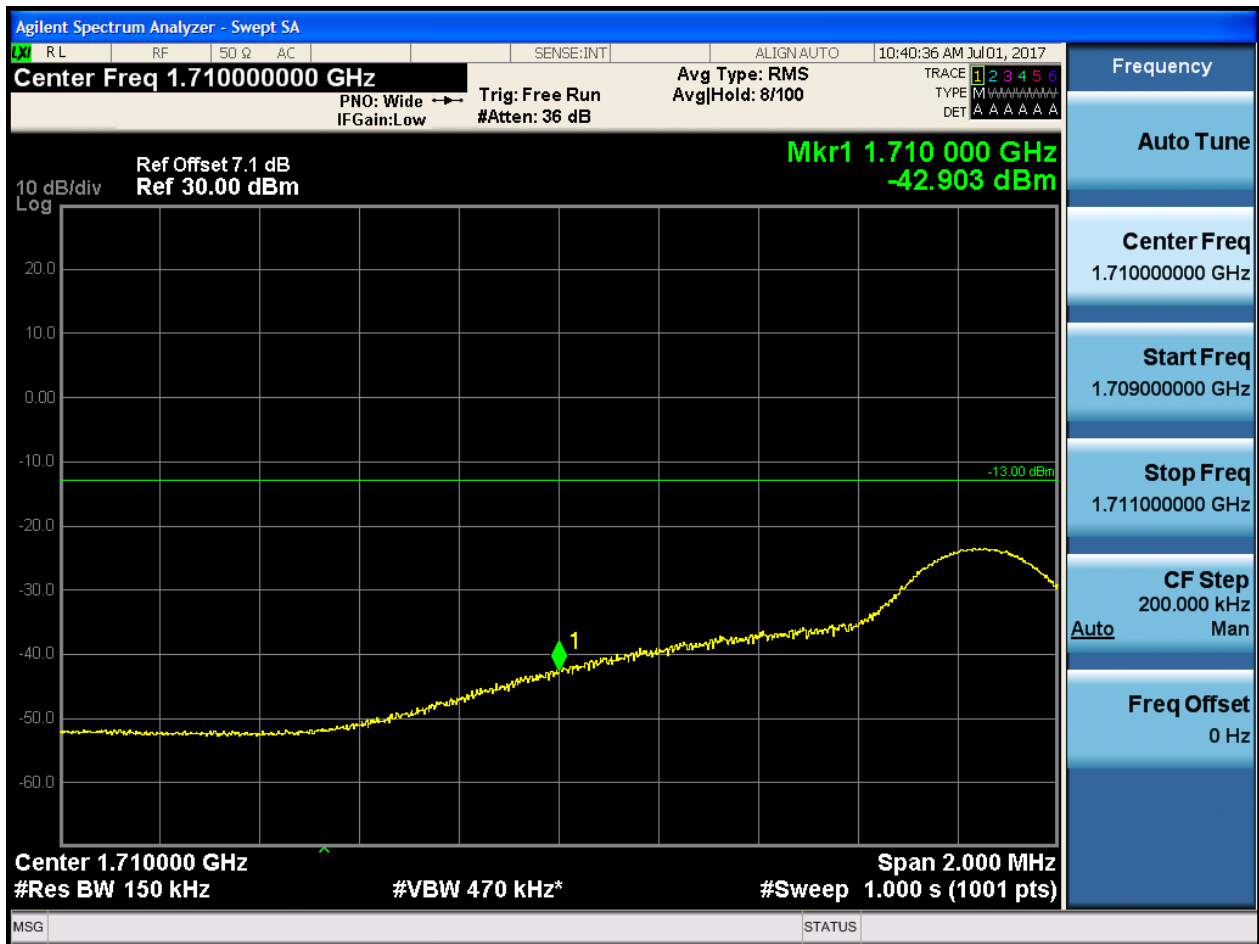
5.1.1.1.5.1 Test Channel = LCH

5.1.1.1.5.1.1 Test RB = RB1#0





5.1.1.1.5.1.2 Test RB = RB1#74





5.1.1.1.5.1.3 Test RB = RB38#19

