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]	ERP[dBm]	Limit [dBm]	Verdict
BAND12	LTE/TM1	1.4	LCH	RB1#0	22.48	20.1	34.7	PASS
				RB1#3	22.45	20.07	34.7	PASS
				RB1#5	22.44	20.06	34.7	PASS
				RB3#0	22.44	20.06	34.7	PASS
				RB3#2	22.39	20.01	34.7	PASS
				RB3#3	22.38	20	34.7	PASS
				RB6#0	21.37	18.99	34.7	PASS
			MCH	RB1#0	22.55	20.17	34.7	PASS
				RB1#3	22.32	19.94	34.7	PASS
				RB1#5	22.45	20.07	34.7	PASS
				RB3#0	22.35	19.97	34.7	PASS
				RB3#2	22.51	20.13	34.7	PASS
				RB3#3	22.49	20.11	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB6#0	21.38	19	34.7	PASS
			HCH	RB1#0	22.46	20.08	34.7	PASS
				RB1#3	22.36	19.98	34.7	PASS
				RB1#5	22.35	19.97	34.7	PASS
				RB3#0	22.31	19.93	34.7	PASS
				RB3#2	22.39	20.01	34.7	PASS
				RB3#3	22.48	20.1	34.7	PASS
				RB6#0	21.33	18.95	34.7	PASS
		3	LCH	RB1#0	22.5	20.12	34.7	PASS
				RB1#7	22.57	20.19	34.7	PASS
				RB1#14	22.63	20.25	34.7	PASS
				RB8#0	21.38	19	34.7	PASS
				RB8#4	21.44	19.06	34.7	PASS
				RB8#7	21.39	19.01	34.7	PASS
				RB15#0	21.46	19.08	34.7	PASS
			MCH	RB1#0	22.58	20.2	34.7	PASS
				RB1#7	22.57	20.19	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#14	22.49	20.11	34.7	PASS
				RB8#0	21.42	19.04	34.7	PASS
				RB8#4	21.3	18.92	34.7	PASS
				RB8#7	21.32	18.94	34.7	PASS
				RB15#0	21.34	18.96	34.7	PASS
			HCH	RB1#0	22.58	20.2	34.7	PASS
				RB1#7	22.55	20.17	34.7	PASS
				RB1#14	22.61	20.23	34.7	PASS
				RB8#0	21.34	18.96	34.7	PASS
				RB8#4	21.25	18.87	34.7	PASS
				RB8#7	21.23	18.85	34.7	PASS
				RB15#0	21.35	18.97	34.7	PASS
		5	LCH	RB1#0	22.61	20.23	34.7	PASS
				RB1#13	22.49	20.11	34.7	PASS
				RB1#24	22.51	20.13	34.7	PASS
				RB12#0	21.44	19.06	34.7	PASS
				RB12#6	21.32	18.94	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB12#13	21.35	18.97	34.7	PASS
				RB25#0	21.43	19.05	34.7	PASS
			MCH	RB1#0	22.67	20.29	34.7	PASS
				RB1#13	22.46	20.08	34.7	PASS
				RB1#24	22.63	20.25	34.7	PASS
				RB12#0	21.42	19.04	34.7	PASS
				RB12#6	21.39	19.01	34.7	PASS
				RB12#13	21.42	19.04	34.7	PASS
				RB25#0	21.44	19.06	34.7	PASS
			HCH	RB1#0	22.63	20.25	34.7	PASS
				RB1#13	22.59	20.21	34.7	PASS
				RB1#24	22.17	19.79	34.7	PASS
				RB12#0	21.45	19.07	34.7	PASS
				RB12#6	21.32	18.94	34.7	PASS
				RB12#13	21.3	18.92	34.7	PASS
				RB25#0	21.4	19.02	34.7	PASS
		10	LCH	RB1#0	22.52	20.14	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#25	22.61	20.23	34.7	PASS
				RB1#49	22.55	20.17	34.7	PASS
				RB25#0	21.32	18.94	34.7	PASS
				RB25#13	21.33	18.95	34.7	PASS
				RB25#25	21.41	19.03	34.7	PASS
				RB50#0	21.37	18.99	34.7	PASS
			MCH	RB1#0	22.49	20.11	34.7	PASS
				RB1#25	22.61	20.23	34.7	PASS
				RB1#49	22.62	20.24	34.7	PASS
				RB25#0	21.42	19.04	34.7	PASS
				RB25#13	21.33	18.95	34.7	PASS
				RB25#25	21.34	18.96	34.7	PASS
				RB50#0	21.37	18.99	34.7	PASS
			HCH	RB1#0	22.67	20.29	34.7	PASS
				RB1#25	22.67	20.29	34.7	PASS
				RB1#49	22.64	20.26	34.7	PASS
				RB25#0	21.58	19.2	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#13	21.37	18.99	34.7	PASS
				RB25#25	21.42	19.04	34.7	PASS
				RB50#0	21.49	19.11	34.7	PASS
			LCH	RB1#0	21.74	19.36	34.7	PASS
				RB1#3	21.94	19.56	34.7	PASS
				RB1#5	21.76	19.38	34.7	PASS
				RB3#0	21.37	18.99	34.7	PASS
				RB3#2	21.4	19.02	34.7	PASS
				RB3#3	21.38	19	34.7	PASS
				RB6#0	20.34	17.96	34.7	PASS
LTE/TM2		1.4		RB1#0	21.47	19.09	34.7	PASS
				RB1#3	21.76	19.38	34.7	PASS
				RB1#5	21.94	19.56	34.7	PASS
			MCH	RB3#0	21.7	19.32	34.7	PASS
				RB3#2	21.4	19.02	34.7	PASS
				RB3#3	21.38	19	34.7	PASS
				RB6#0	20.37	17.99	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.39	19.01	34.7	PASS
				RB1#3	21.77	19.39	34.7	PASS
				RB1#5	21.7	19.32	34.7	PASS
				RB3#0	21.39	19.01	34.7	PASS
				RB3#2	21.28	18.9	34.7	PASS
				RB3#3	21.08	18.7	34.7	PASS
				RB6#0	20.27	17.89	34.7	PASS
		3	LCH	RB1#0	21.47	19.09	34.7	PASS
				RB1#7	21.44	19.06	34.7	PASS
				RB1#14	21.57	19.19	34.7	PASS
				RB8#0	20.41	18.03	34.7	PASS
				RB8#4	20.46	18.08	34.7	PASS
				RB8#7	20.42	18.04	34.7	PASS
				RB15#0	20.41	18.03	34.7	PASS
			MCH	RB1#0	21.71	19.33	34.7	PASS
				RB1#7	21.68	19.3	34.7	PASS
				RB1#14	21.7	19.32	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB8#0	20.42	18.04	34.7	PASS
				RB8#4	20.61	18.23	34.7	PASS
				RB8#7	20.54	18.16	34.7	PASS
				RB15#0	20.3	17.92	34.7	PASS
			HCH	RB1#0	21.59	19.21	34.7	PASS
				RB1#7	21.84	19.46	34.7	PASS
				RB1#14	21.77	19.39	34.7	PASS
				RB8#0	20.18	17.8	34.7	PASS
				RB8#4	20.18	17.8	34.7	PASS
				RB8#7	20.17	17.79	34.7	PASS
				RB15#0	20.18	17.8	34.7	PASS
		5	LCH	RB1#0	21.37	18.99	34.7	PASS
				RB1#13	21.21	18.83	34.7	PASS
				RB1#24	21.22	18.84	34.7	PASS
				RB12#0	20.24	17.86	34.7	PASS
				RB12#6	20.31	17.93	34.7	PASS
				RB12#13	20.38	18	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.38	18	34.7	PASS
			MCH	RB1#0	21.52	19.14	34.7	PASS
				RB1#13	21.5	19.12	34.7	PASS
				RB1#24	21.19	18.81	34.7	PASS
				RB12#0	20.46	18.08	34.7	PASS
				RB12#6	20.56	18.18	34.7	PASS
				RB12#13	20.52	18.14	34.7	PASS
				RB25#0	20.4	18.02	34.7	PASS
			HCH	RB1#0	21.52	19.14	34.7	PASS
				RB1#13	21.3	18.92	34.7	PASS
				RB1#24	21.27	18.89	34.7	PASS
				RB12#0	20.39	18.01	34.7	PASS
				RB12#6	20.17	17.79	34.7	PASS
				RB12#13	20.38	18	34.7	PASS
				RB25#0	20.27	17.89	34.7	PASS
		10	LCH	RB1#0	21.66	19.28	34.7	PASS
				RB1#25	21.67	19.29	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#49	21.73	19.35	34.7	PASS
				RB25#0	20.32	17.94	34.7	PASS
				RB25#13	20.38	18	34.7	PASS
				RB25#25	20.42	18.04	34.7	PASS
				RB50#0	20.39	18.01	34.7	PASS
			MCH	RB1#0	21.55	19.17	34.7	PASS
				RB1#25	21.6	19.22	34.7	PASS
				RB1#49	21.58	19.2	34.7	PASS
				RB25#0	20.5	18.12	34.7	PASS
				RB25#13	20.44	18.06	34.7	PASS
				RB25#25	20.44	18.06	34.7	PASS
				RB50#0	20.4	18.02	34.7	PASS
			HCH	RB1#0	21.94	19.56	34.7	PASS
				RB1#25	21.8	19.42	34.7	PASS
				RB1#49	21.74	19.36	34.7	PASS
				RB25#0	20.58	18.2	34.7	PASS
				RB25#13	20.46	18.08	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#25	20.52	18.14	34.7	PASS
				RB50#0	20.44	18.06	34.7	PASS
BAND17	LTE/TM1	5	LCH	RB1#0	22.78	17.62	34.7	PASS
				RB1#13	22.83	17.67	34.7	PASS
				RB1#24	22.74	17.58	34.7	PASS
				RB12#0	21.65	16.49	34.7	PASS
				RB12#6	21.65	16.49	34.7	PASS
				RB12#13	21.62	16.46	34.7	PASS
				RB25#0	21.65	16.49	34.7	PASS
			MCH	RB1#0	22.84	17.68	34.7	PASS
				RB1#13	22.69	17.53	34.7	PASS
				RB1#24	22.76	17.6	34.7	PASS
				RB12#0	21.71	16.55	34.7	PASS
				RB12#6	21.63	16.47	34.7	PASS
				RB12#13	21.62	16.46	34.7	PASS
				RB25#0	21.63	16.47	34.7	PASS
			HCH	RB1#0	22.8	17.64	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#13	22.75	17.59	34.7	PASS
				RB1#24	22.74	17.58	34.7	PASS
				RB12#0	21.72	16.56	34.7	PASS
				RB12#6	21.57	16.41	34.7	PASS
				RB12#13	21.56	16.4	34.7	PASS
				RB25#0	21.65	16.49	34.7	PASS
		10	LCH	RB1#0	22.93	17.77	34.7	PASS
				RB1#25	22.8	17.64	34.7	PASS
				RB1#49	22.87	17.71	34.7	PASS
				RB25#0	21.85	16.69	34.7	PASS
				RB25#13	21.71	16.55	34.7	PASS
				RB25#25	21.67	16.51	34.7	PASS
				RB50#0	21.75	16.59	34.7	PASS
			MCH	RB1#0	23	17.84	34.7	PASS
				RB1#25	22.86	17.7	34.7	PASS
				RB1#49	22.86	17.7	34.7	PASS
				RB25#0	21.83	16.67	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#13	21.66	16.5	34.7	PASS
				RB25#25	21.64	16.48	34.7	PASS
				RB50#0	21.69	16.53	34.7	PASS
			HCH	RB1#0	23.15	17.99	34.7	PASS
				RB1#25	22.8	17.64	34.7	PASS
				RB1#49	22.93	17.77	34.7	PASS
				RB25#0	21.71	16.55	34.7	PASS
				RB25#13	21.7	16.54	34.7	PASS
				RB25#25	21.73	16.57	34.7	PASS
				RB50#0	21.72	16.56	34.7	PASS
	LTE/TM2	5	LCH	RB1#0	21.7	16.54	34.7	PASS
				RB1#13	21.66	16.5	34.7	PASS
				RB1#24	21.66	16.5	34.7	PASS
				RB12#0	20.81	15.65	34.7	PASS
				RB12#6	20.81	15.65	34.7	PASS
				RB12#13	20.8	15.64	34.7	PASS
				RB25#0	20.64	15.48	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.95	16.79	34.7	PASS
				RB1#13	21.7	16.54	34.7	PASS
				RB1#24	21.76	16.6	34.7	PASS
				RB12#0	20.71	15.55	34.7	PASS
				RB12#6	20.73	15.57	34.7	PASS
				RB12#13	20.71	15.55	34.7	PASS
				RB25#0	20.58	15.42	34.7	PASS
			HCH	RB1#0	21.78	16.62	34.7	PASS
				RB1#13	21.71	16.55	34.7	PASS
				RB1#24	21.57	16.41	34.7	PASS
				RB12#0	20.55	15.39	34.7	PASS
				RB12#6	20.7	15.54	34.7	PASS
				RB12#13	20.69	15.53	34.7	PASS
				RB25#0	20.52	15.36	34.7	PASS
		10	LCH	RB1#0	22.08	16.92	34.7	PASS
				RB1#25	21.88	16.72	34.7	PASS
				RB1#49	21.97	16.81	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.85	15.69	34.7	PASS
				RB25#13	20.77	15.61	34.7	PASS
				RB25#25	20.66	15.5	34.7	PASS
				RB50#0	20.6	15.44	34.7	PASS
			MCH	RB1#0	22.08	16.92	34.7	PASS
				RB1#25	22	16.84	34.7	PASS
				RB1#49	22.01	16.85	34.7	PASS
				RB25#0	20.84	15.68	34.7	PASS
				RB25#13	20.78	15.62	34.7	PASS
				RB25#25	20.55	15.39	34.7	PASS
				RB50#0	20.58	15.42	34.7	PASS
			HCH	RB1#0	22.09	16.93	34.7	PASS
				RB1#25	21.86	16.7	34.7	PASS
				RB1#49	21.87	16.71	34.7	PASS
				RB25#0	20.67	15.51	34.7	PASS
				RB25#13	20.72	15.56	34.7	PASS
				RB25#25	20.76	15.6	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB50#0	20.61	15.45	34.7	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 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
BAND12	LTE/TM1	1.4	LCH	RB1#0	3.72	13	PASS
				RB1#3	3.65	13	PASS
				RB1#5	3.69	13	PASS
				RB3#0	4.12	13	PASS
				RB3#2	3.99	13	PASS
				RB3#3	4.06	13	PASS
				RB6#0	5.33	13	PASS
			MCH	RB1#0	3.89	13	PASS
				RB1#3	3.9	13	PASS
				RB1#5	3.93	13	PASS
				RB3#0	4.28	13	PASS
				RB3#2	4.25	13	PASS
				RB3#3	4.28	13	PASS
				RB6#0	5.43	13	PASS
			HCH	RB1#0	3.85	13	PASS
				RB1#3	3.81	13	PASS
				RB1#5	3.86	13	PASS
				RB3#0	4.32	13	PASS
				RB3#2	4.21	13	PASS
				RB3#3	4.24	13	PASS
				RB6#0	5.44	13	PASS
		3	LCH	RB1#0	3.74	13	PASS
				RB1#7	3.69	13	PASS
				RB1#14	3.81	13	PASS
				RB8#0	4.6	13	PASS
				RB8#4	4.57	13	PASS
				RB8#7	4.72	13	PASS
				RB15#0	5.34	13	PASS
			MCH	RB1#0	4.02	13	PASS
				RB1#7	3.92	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#14	4.06	13	PASS
				RB8#0	4.79	13	PASS
				RB8#4	4.7	13	PASS
				RB8#7	4.81	13	PASS
				RB15#0	5.49	13	PASS
			HCH	RB1#0	4.05	13	PASS
				RB1#7	3.92	13	PASS
				RB1#14	3.9	13	PASS
				RB8#0	4.8	13	PASS
				RB8#4	4.69	13	PASS
				RB8#7	4.72	13	PASS
				RB15#0	4.94	13	PASS
			LCH	RB1#0	3.74	13	PASS
				RB1#13	3.77	13	PASS
				RB1#24	3.86	13	PASS
				RB12#0	4.52	13	PASS
				RB12#6	4.47	13	PASS
				RB12#13	4.73	13	PASS
				RB25#0	5.12	13	PASS
		5	MCH	RB1#0	3.88	13	PASS
				RB1#13	3.99	13	PASS
				RB1#24	3.98	13	PASS
				RB12#0	4.7	13	PASS
				RB12#6	4.59	13	PASS
				RB12#13	4.72	13	PASS
				RB25#0	5.16	13	PASS
			HCH	RB1#0	3.97	13	PASS
				RB1#13	3.89	13	PASS
				RB1#24	3.91	13	PASS
				RB12#0	4.73	13	PASS
				RB12#6	4.64	13	PASS
				RB12#13	4.69	13	PASS
				RB25#0	5.1	13	PASS
		10	LCH	RB1#0	3.81	13	PASS
				RB1#25	4.01	13	PASS
				RB1#49	4	13	PASS
				RB25#0	4.63	13	PASS
				RB25#13	4.69	13	PASS
				RB25#25	4.78	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.08	13	PASS
			MCH	RB1#0	3.96	13	PASS
				RB1#25	3.95	13	PASS
				RB1#49	4	13	PASS
				RB25#0	4.74	13	PASS
				RB25#13	4.69	13	PASS
				RB25#25	4.79	13	PASS
				RB50#0	5.87	13	PASS
			HCH	RB1#0	3.87	13	PASS
				RB1#25	3.96	13	PASS
				RB1#49	3.87	13	PASS
				RB25#0	4.7	13	PASS
				RB25#13	4.73	13	PASS
				RB25#25	4.75	13	PASS
				RB50#0	5.45	13	PASS
			LCH	RB1#0	4.55	13	PASS
				RB1#3	4.41	13	PASS
				RB1#5	4.44	13	PASS
				RB3#0	4.87	13	PASS
				RB3#2	4.74	13	PASS
				RB3#3	4.87	13	PASS
				RB6#0	5.54	13	PASS
			MCH	RB1#0	4.68	13	PASS
				RB1#3	4.66	13	PASS
				RB1#5	4.71	13	PASS
	LTE/TM2	1.4		RB3#0	5.07	13	PASS
				RB3#2	5.02	13	PASS
				RB3#3	5.16	13	PASS
				RB6#0	5.88	13	PASS
			HCH	RB1#0	4.79	13	PASS
				RB1#3	4.66	13	PASS
				RB1#5	4.69	13	PASS
				RB3#0	5.08	13	PASS
				RB3#2	5.08	13	PASS
				RB3#3	5.25	13	PASS
				RB6#0	5.86	13	PASS
		3	LCH	RB1#0	4.56	13	PASS
				RB1#7	4.37	13	PASS
				RB1#14	4.62	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.41	13	PASS
				RB8#4	5.33	13	PASS
				RB8#7	5.4	13	PASS
				RB15#0	6.07	13	PASS
			MCH	RB1#0	4.69	13	PASS
				RB1#7	4.61	13	PASS
				RB1#14	4.77	13	PASS
				RB8#0	5.51	13	PASS
				RB8#4	5.49	13	PASS
				RB8#7	5.58	13	PASS
				RB15#0	6.18	13	PASS
			HCH	RB1#0	4.8	13	PASS
				RB1#7	4.67	13	PASS
				RB1#14	4.73	13	PASS
				RB8#0	5.67	13	PASS
				RB8#4	5.47	13	PASS
				RB8#7	5.55	13	PASS
				RB15#0	6.17	13	PASS
			LCH	RB1#0	4.66	13	PASS
				RB1#13	4.73	13	PASS
				RB1#24	4.87	13	PASS
				RB12#0	5.42	13	PASS
				RB12#6	5.36	13	PASS
				RB12#13	5.51	13	PASS
				RB25#0	5.95	13	PASS
		5	MCH	RB1#0	4.91	13	PASS
				RB1#13	4.92	13	PASS
				RB1#24	5	13	PASS
				RB12#0	5.48	13	PASS
				RB12#6	5.46	13	PASS
				RB12#13	5.58	13	PASS
				RB25#0	6.13	13	PASS
			HCH	RB1#0	4.91	13	PASS
				RB1#13	4.98	13	PASS
				RB1#24	4.96	13	PASS
				RB12#0	5.66	13	PASS
				RB12#6	5.54	13	PASS
				RB12#13	5.55	13	PASS
				RB25#0	6.13	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	4.85	13	PASS
				RB1#25	4.94	13	PASS
				RB1#49	4.9	13	PASS
				RB25#0	5.72	13	PASS
				RB25#13	5.61	13	PASS
				RB25#25	5.78	13	PASS
				RB50#0	6.53	13	PASS
			MCH	RB1#0	5.02	13	PASS
				RB1#25	4.78	13	PASS
				RB1#49	4.94	13	PASS
				RB25#0	5.76	13	PASS
				RB25#13	5.66	13	PASS
				RB25#25	5.85	13	PASS
				RB50#0	6.02	13	PASS
			HCH	RB1#0	4.97	13	PASS
				RB1#25	4.86	13	PASS
				RB1#49	4.82	13	PASS
				RB25#0	5.73	13	PASS
				RB25#13	5.69	13	PASS
				RB25#25	5.82	13	PASS
				RB50#0	6.47	13	PASS
BAND17	LTE/TM1	5	LCH	RB1#0	3.92	13	PASS
				RB1#13	3.88	13	PASS
				RB1#24	3.93	13	PASS
				RB12#0	4.69	13	PASS
				RB12#6	4.56	13	PASS
				RB12#13	4.71	13	PASS
				RB25#0	5.23	13	PASS
			MCH	RB1#0	3.89	13	PASS
				RB1#13	3.93	13	PASS
				RB1#24	4.01	13	PASS
				RB12#0	4.71	13	PASS
				RB12#6	4.59	13	PASS
				RB12#13	4.72	13	PASS
				RB25#0	5.14	13	PASS
			HCH	RB1#0	3.94	13	PASS
				RB1#13	3.86	13	PASS
				RB1#24	3.86	13	PASS
				RB12#0	4.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB12#6	4.63	13	PASS
				RB12#13	4.68	13	PASS
				RB25#0	5.1	13	PASS
			LCH	RB1#0	3.96	13	PASS
				RB1#25	4.04	13	PASS
				RB1#49	3.97	13	PASS
				RB25#0	4.65	13	PASS
				RB25#13	4.63	13	PASS
				RB25#25	4.78	13	PASS
				RB50#0	5.9	13	PASS
			MCH	RB1#0	3.9	13	PASS
				RB1#25	3.96	13	PASS
				RB1#49	3.92	13	PASS
		10		RB25#0	4.7	13	PASS
				RB25#13	4.69	13	PASS
				RB25#25	4.73	13	PASS
				RB50#0	5.08	13	PASS
			HCH	RB1#0	3.89	13	PASS
				RB1#25	3.98	13	PASS
				RB1#49	3.87	13	PASS
				RB25#0	4.71	13	PASS
				RB25#13	4.71	13	PASS
				RB25#25	4.76	13	PASS
				RB50#0	5.87	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.99	13	PASS
				RB1#13	4.91	13	PASS
				RB1#24	5.01	13	PASS
				RB12#0	5.55	13	PASS
				RB12#6	5.43	13	PASS
				RB12#13	5.53	13	PASS
				RB25#0	6.03	13	PASS
			MCH	RB1#0	4.9	13	PASS
				RB1#13	4.88	13	PASS
				RB1#24	4.92	13	PASS
				RB12#0	5.59	13	PASS
				RB12#6	5.52	13	PASS
				RB12#13	5.62	13	PASS
				RB25#0	6.18	13	PASS
			HCH	RB1#0	4.92	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#13	4.86	13	PASS
				RB1#24	4.9	13	PASS
				RB12#0	5.64	13	PASS
				RB12#6	5.54	13	PASS
				RB12#13	5.54	13	PASS
				RB25#0	6.15	13	PASS
			LCH	RB1#0	4.84	13	PASS
				RB1#25	4.84	13	PASS
				RB1#49	4.84	13	PASS
				RB25#0	5.74	13	PASS
				RB25#13	5.69	13	PASS
				RB25#25	5.82	13	PASS
				RB50#0	6.04	13	PASS
		10	MCH	RB1#0	4.99	13	PASS
				RB1#25	4.81	13	PASS
				RB1#49	4.82	13	PASS
				RB25#0	5.7	13	PASS
				RB25#13	5.64	13	PASS
				RB25#25	5.81	13	PASS
				RB50#0	6.57	13	PASS
			HCH	RB1#0	4.95	13	PASS
				RB1#25	4.86	13	PASS
				RB1#49	4.73	13	PASS
				RB25#0	5.69	13	PASS
				RB25#13	5.66	13	PASS
				RB25#25	5.92	13	PASS
				RB50#0	6.56	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = BAND12

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
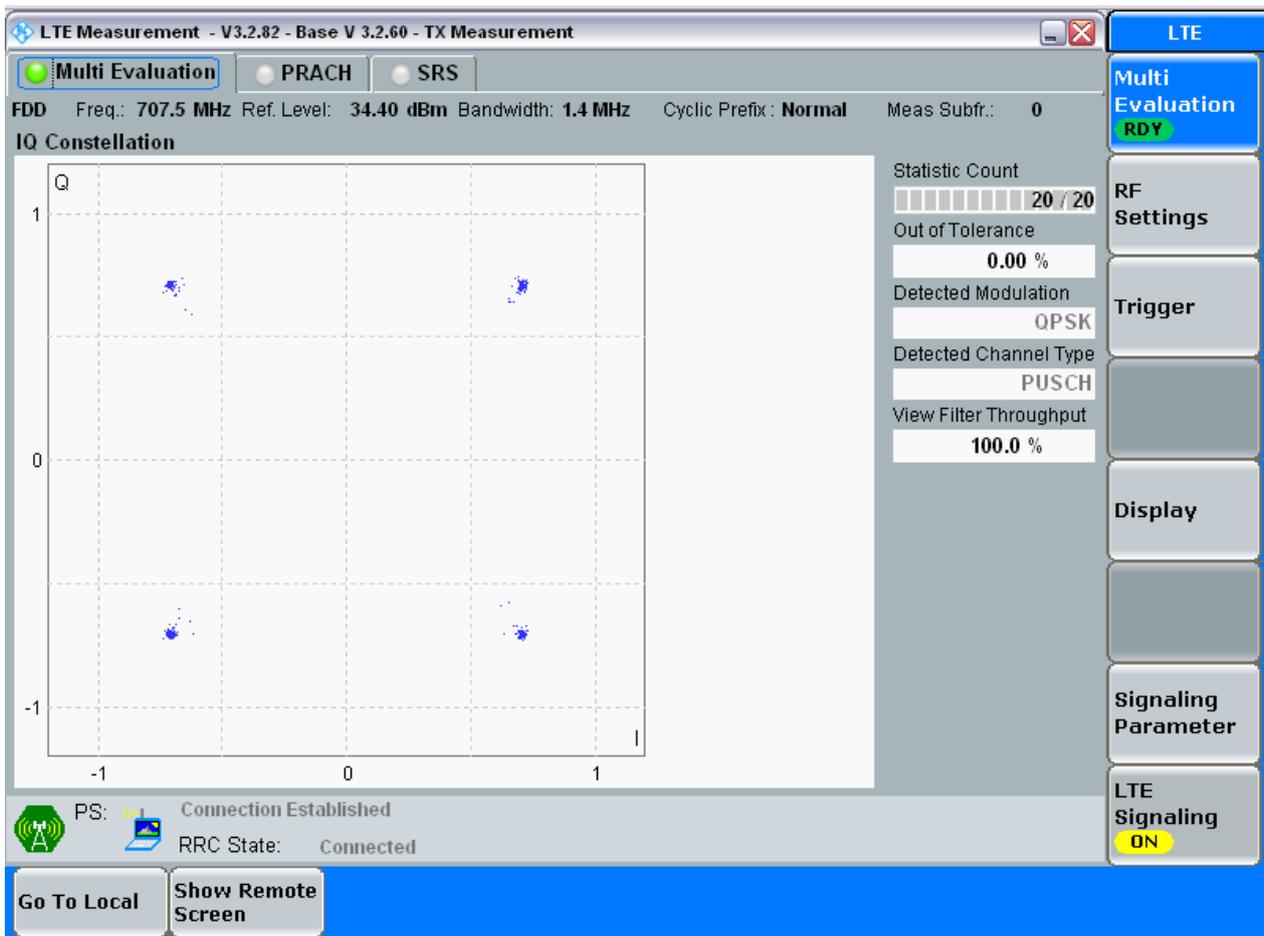
3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB15#0
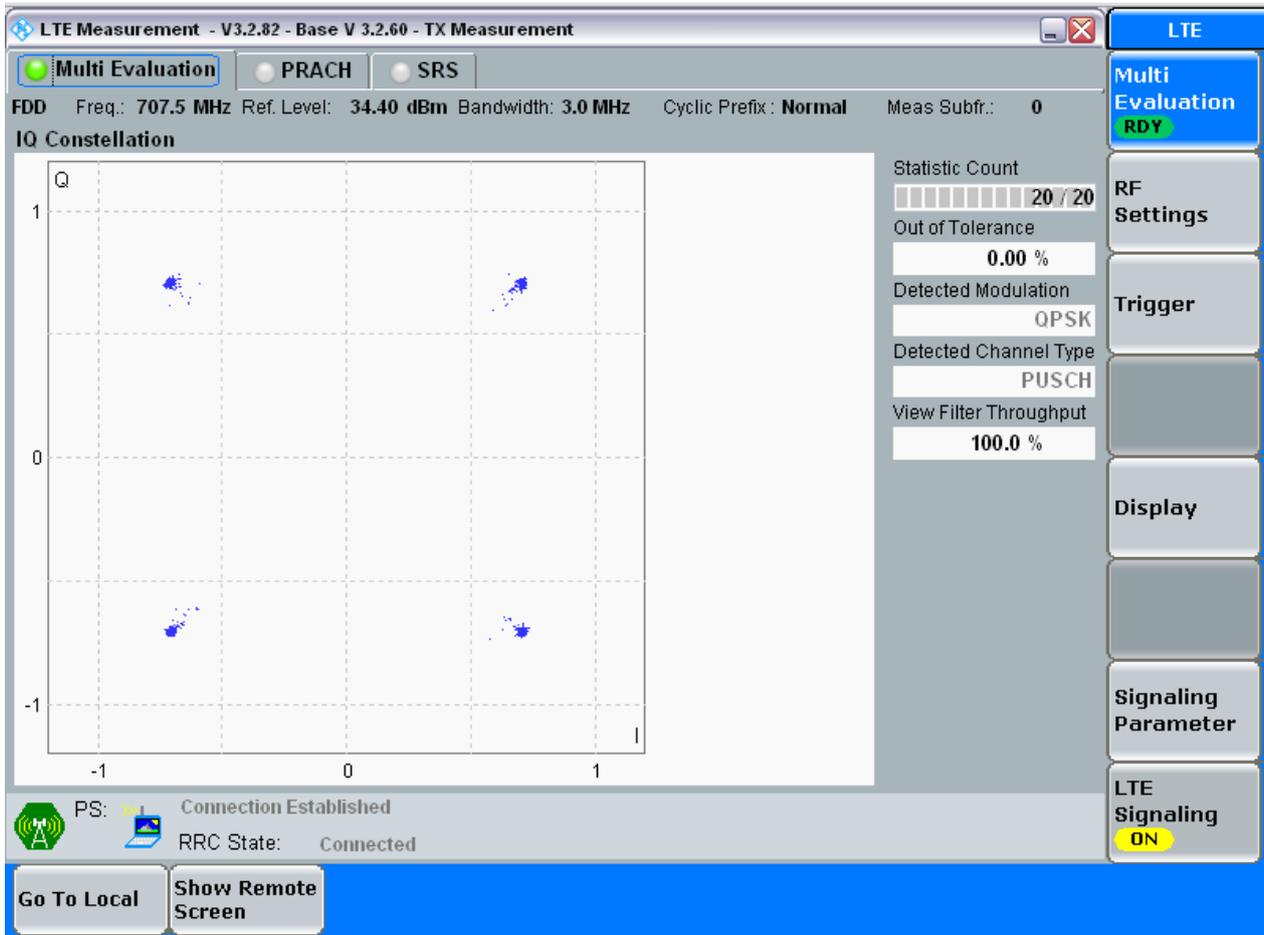
3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

3.1.1.1.3.1.1 Test RB = RB25#0
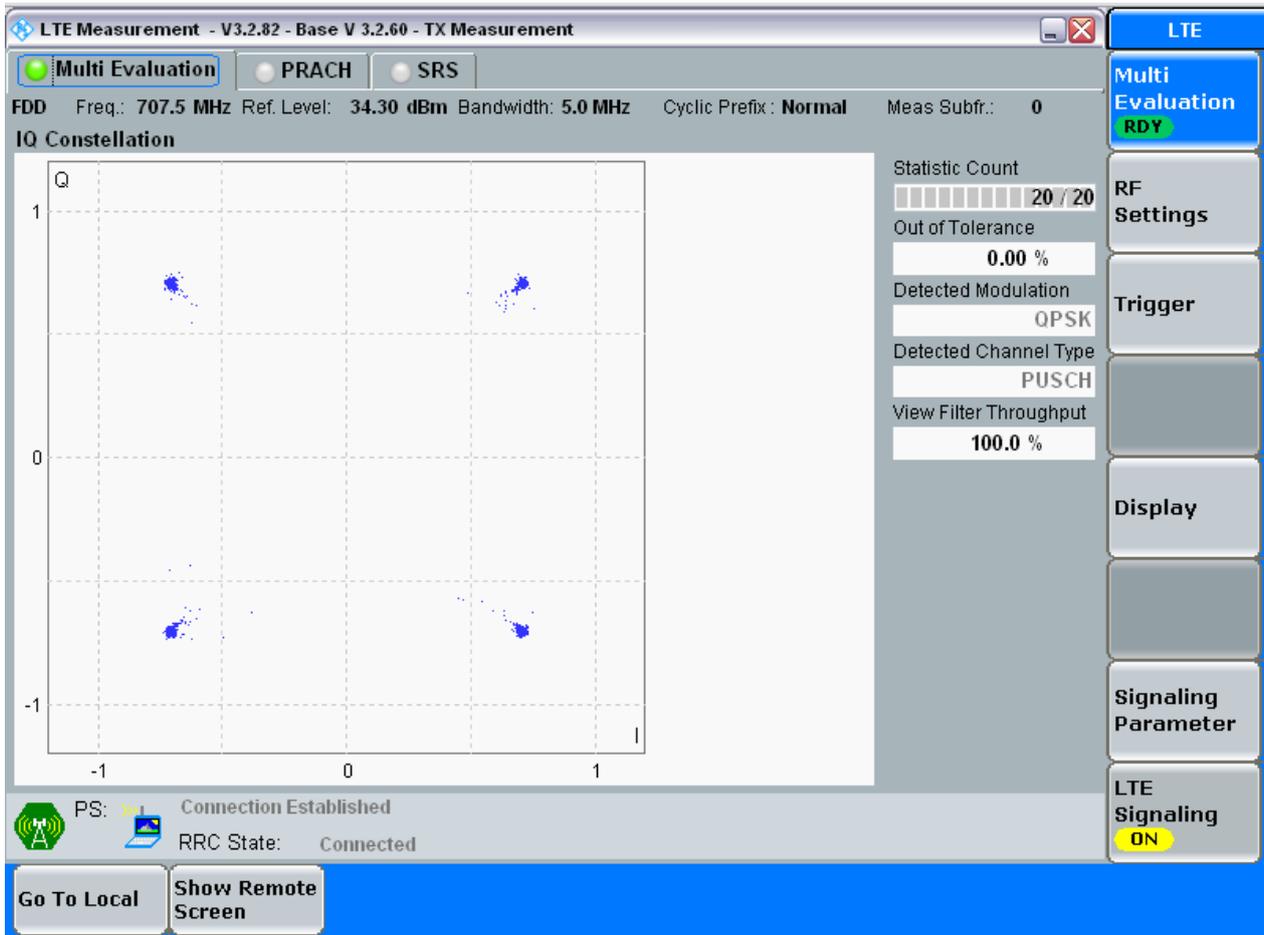
3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0
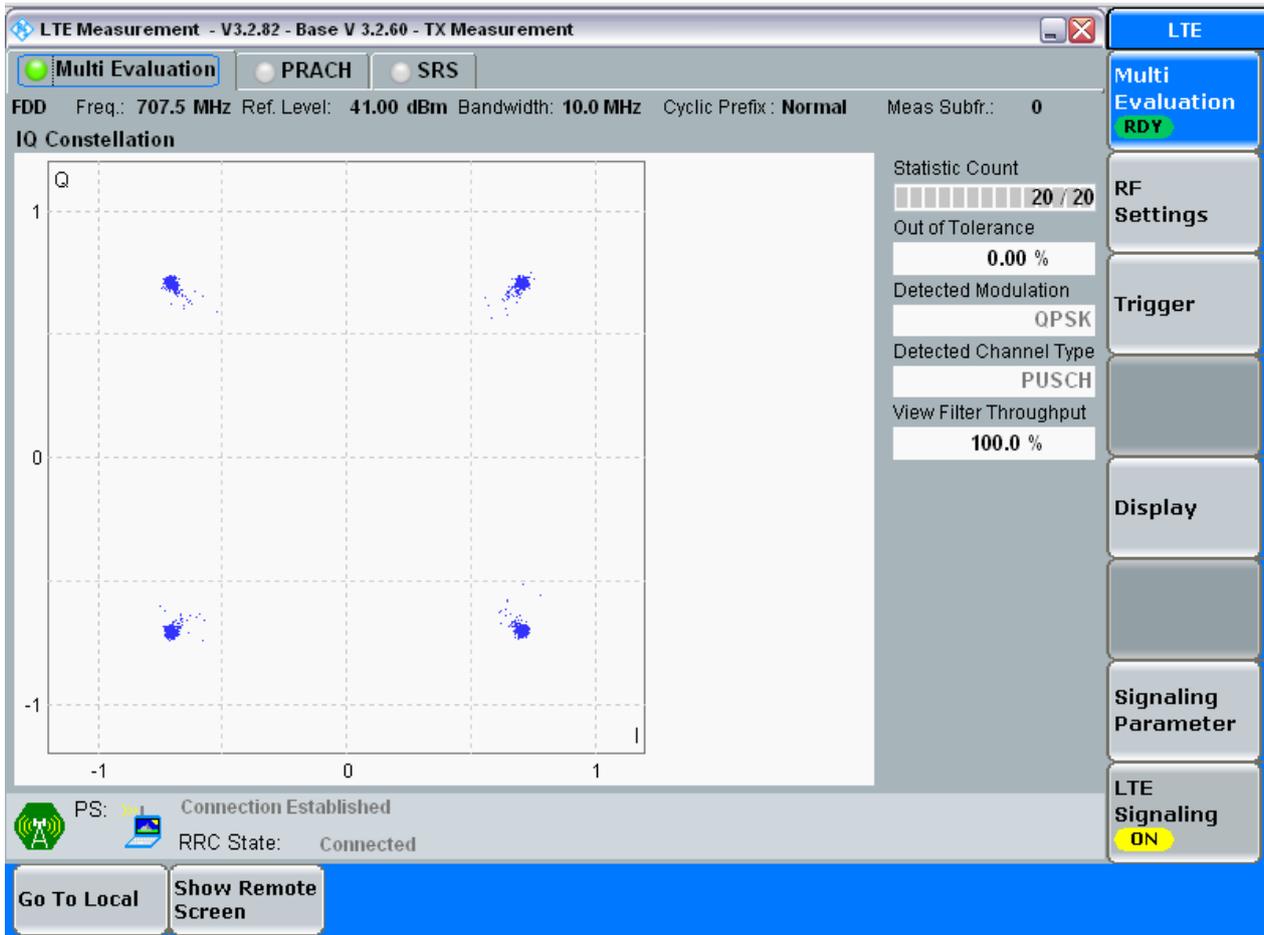
3.1.1.2 Test Mode = LTE/TM2

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
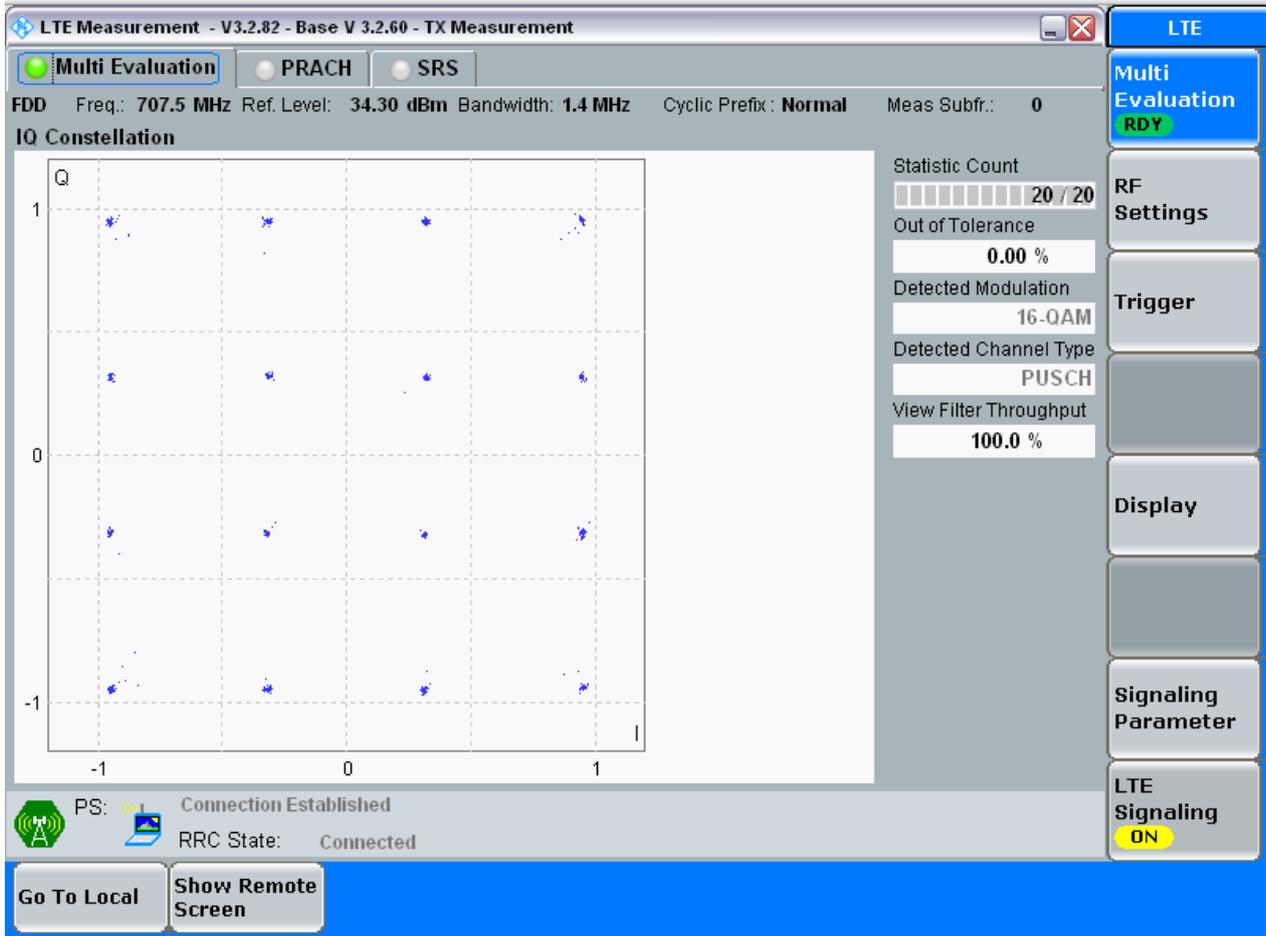
3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB15#0
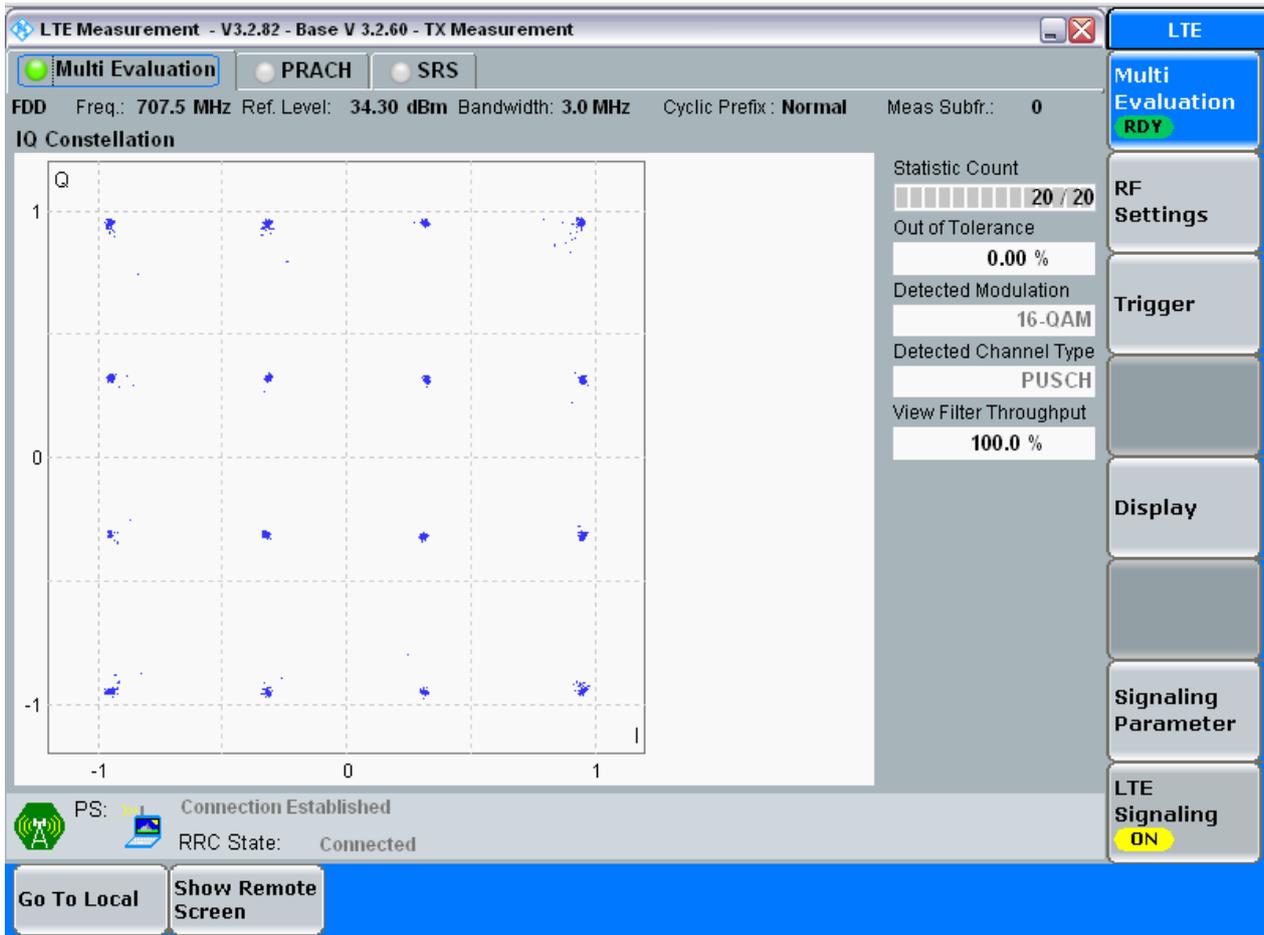
3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

3.1.1.2.3.1.1 Test RB = RB25#0
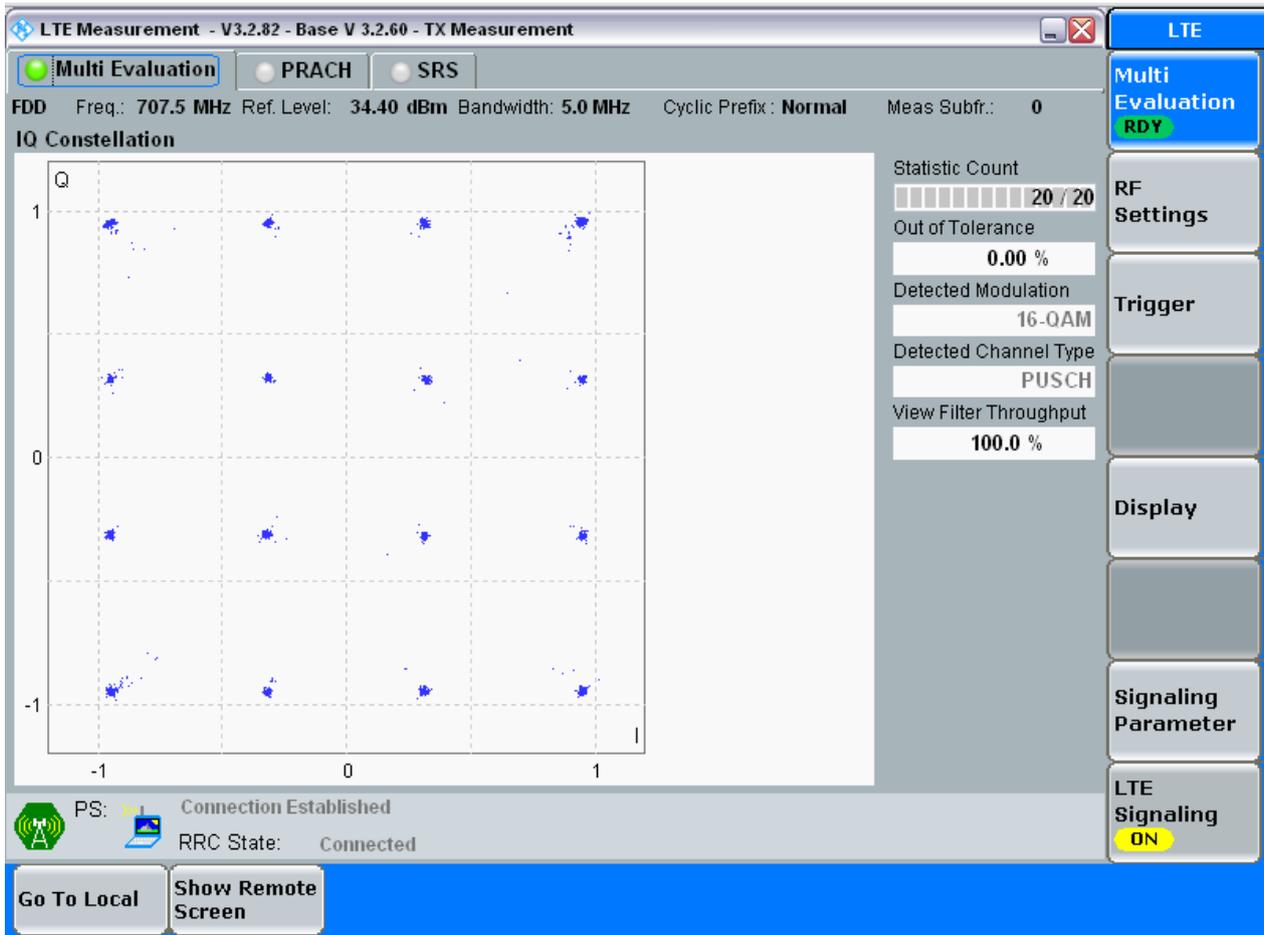
3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB50#0
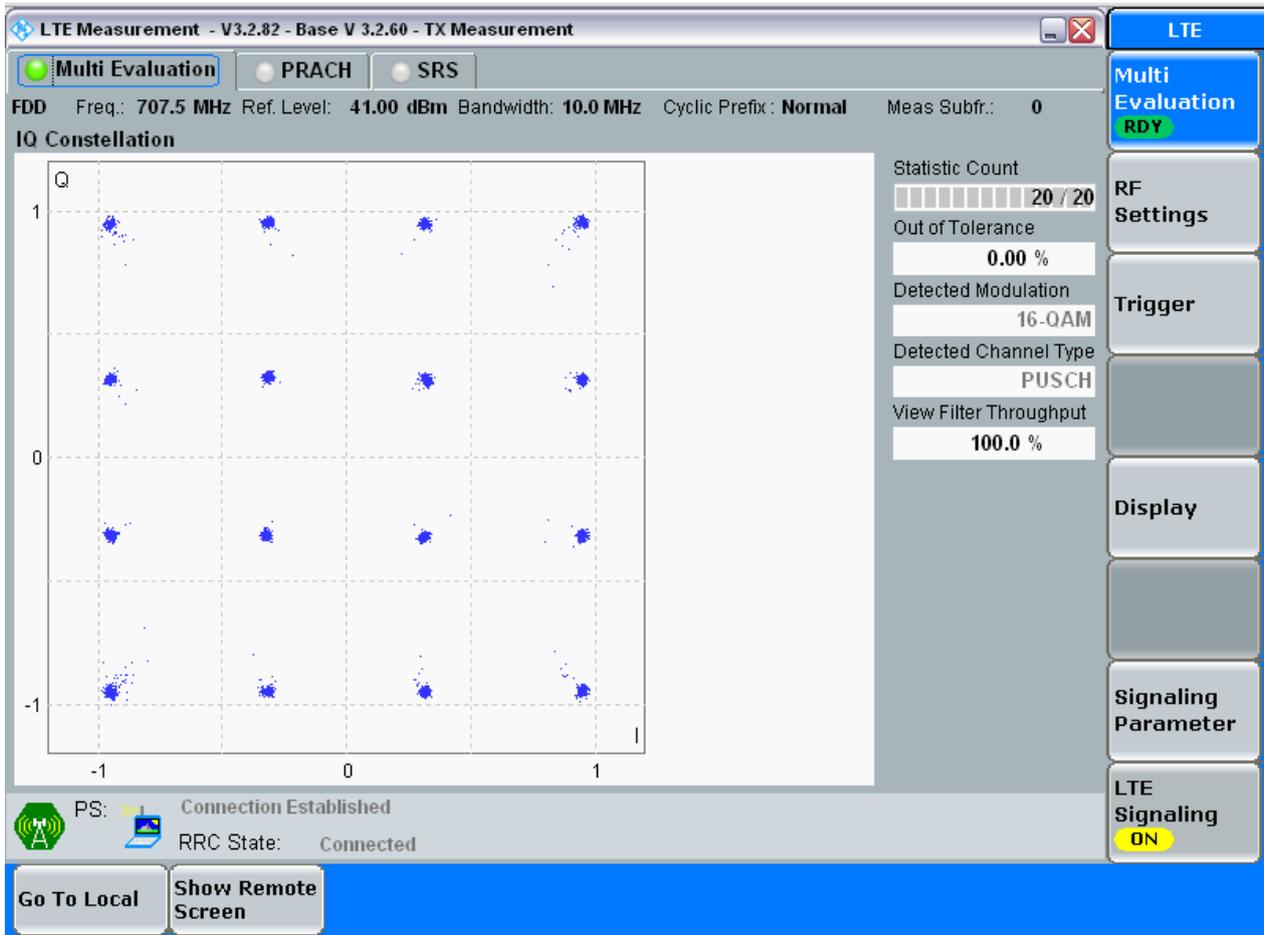
3.1.2 Test Band = BAND17

3.1.2.1 Test Mode = LTE/TM1

3.1.2.1.1 Test Bandwidth = 5
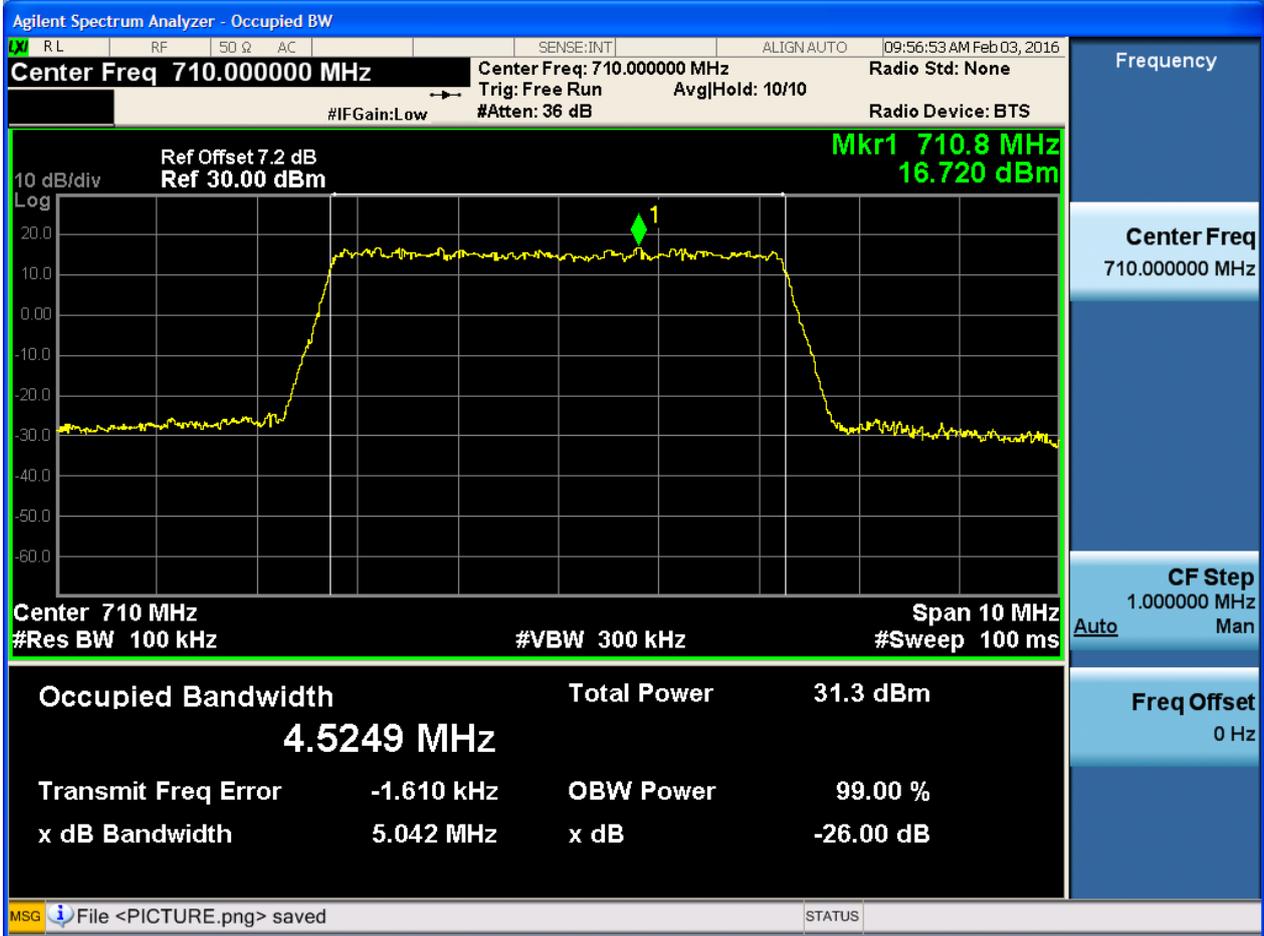
3.1.2.1.1.1 Test Channel = MCH

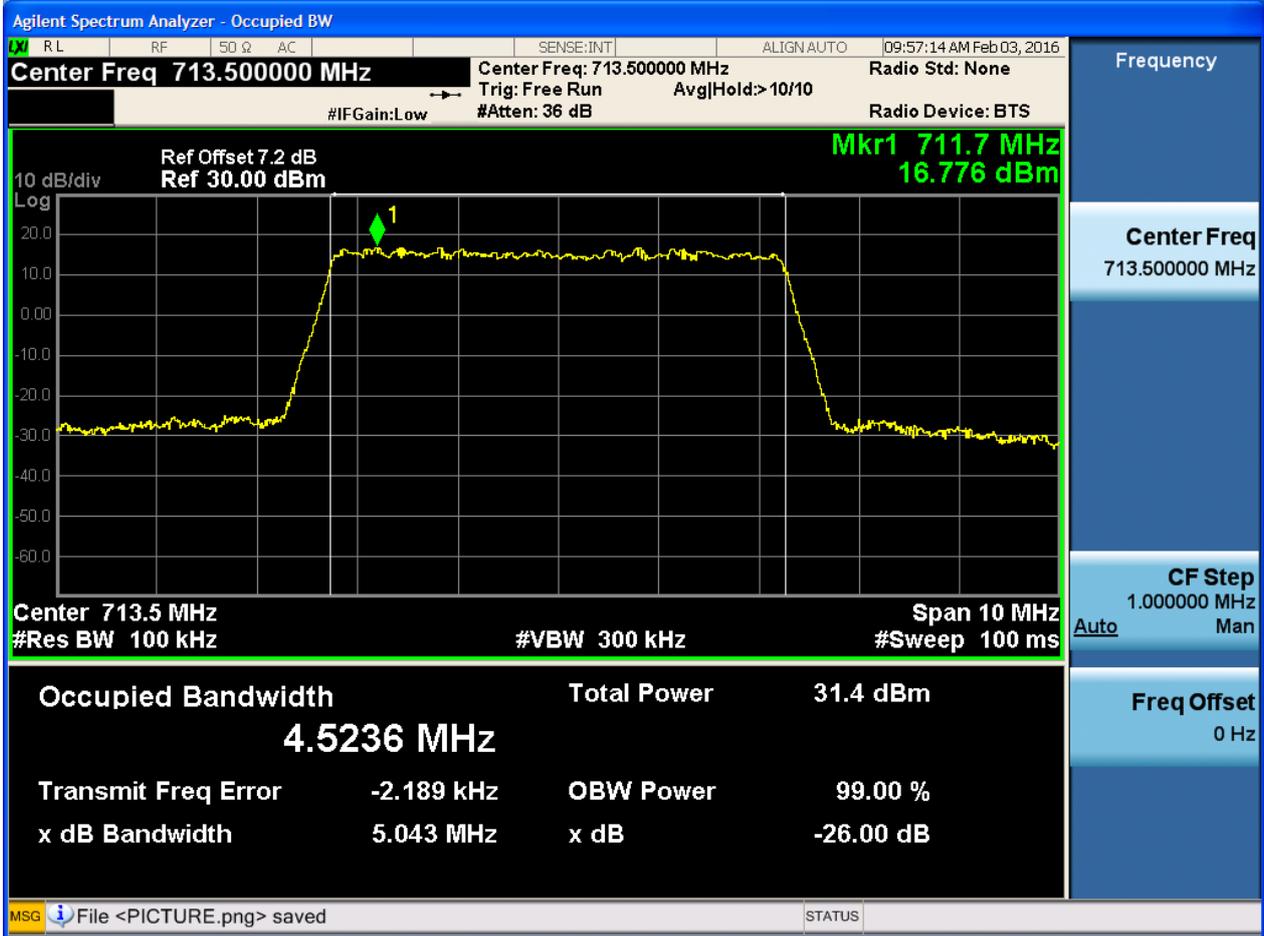### 3.1.2.1.1.1.1 Test RB = RB25#0
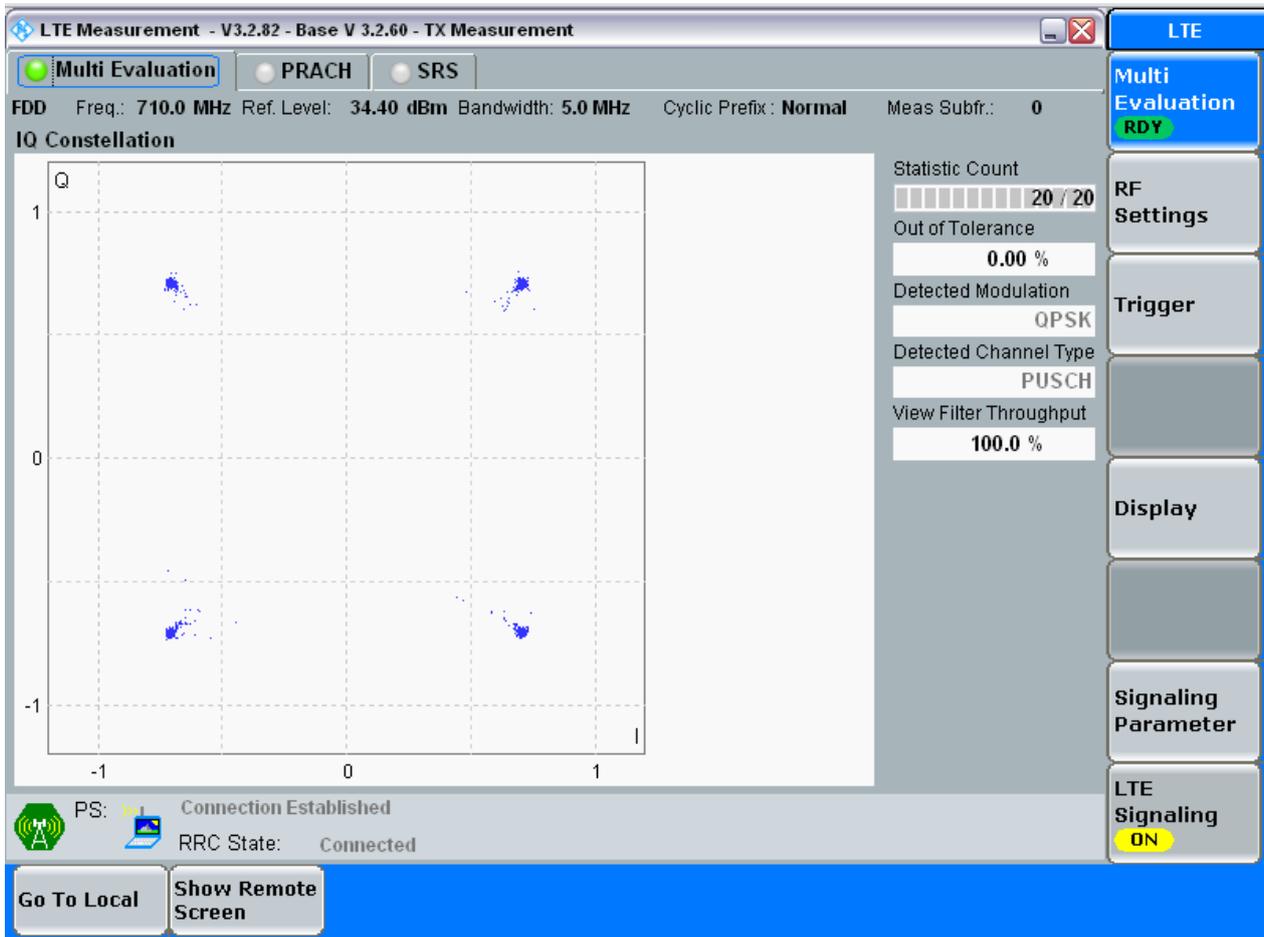
3.1.2.1.2 Test Bandwidth = 10

3.1.2.1.2.1 Test Channel = MCH

3.1.2.1.2.1.1 Test RB = RB50#0
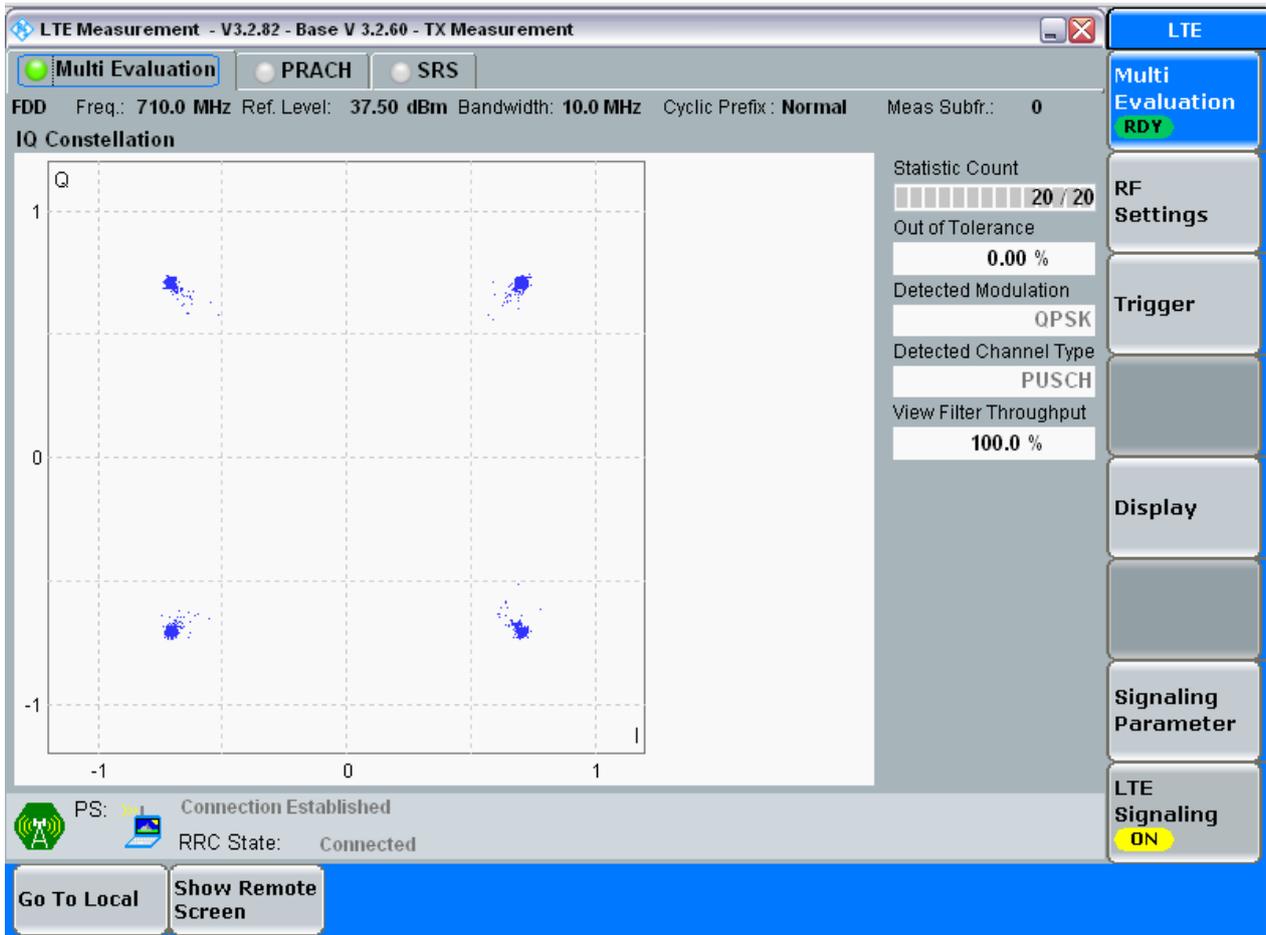
3.1.2.2 Test Mode = LTE/TM2

3.1.2.2.1 Test Bandwidth = 5

3.1.2.2.1.1 Test Channel = MCH

3.1.2.2.1.1.1 Test RB = RB25#0
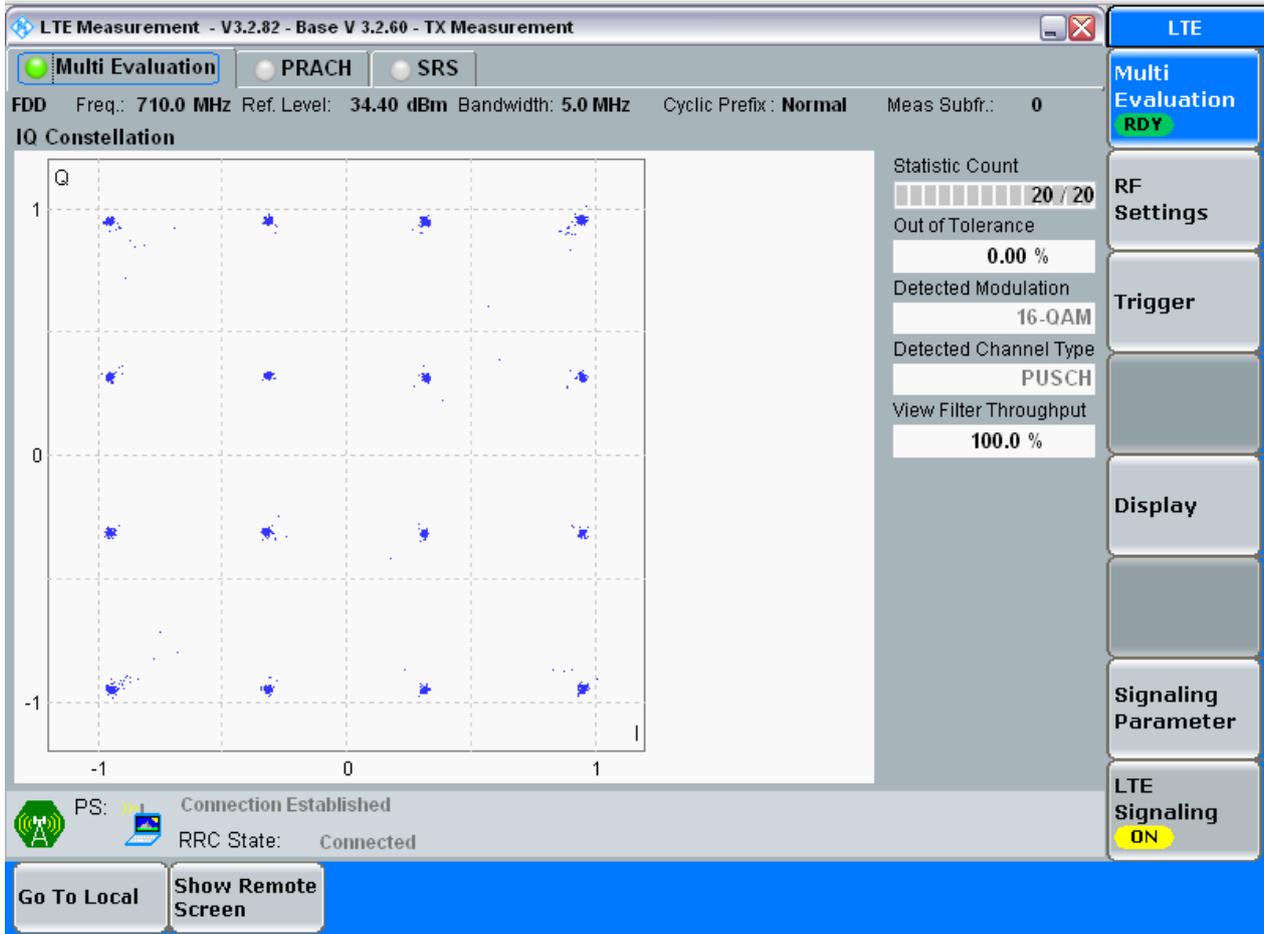
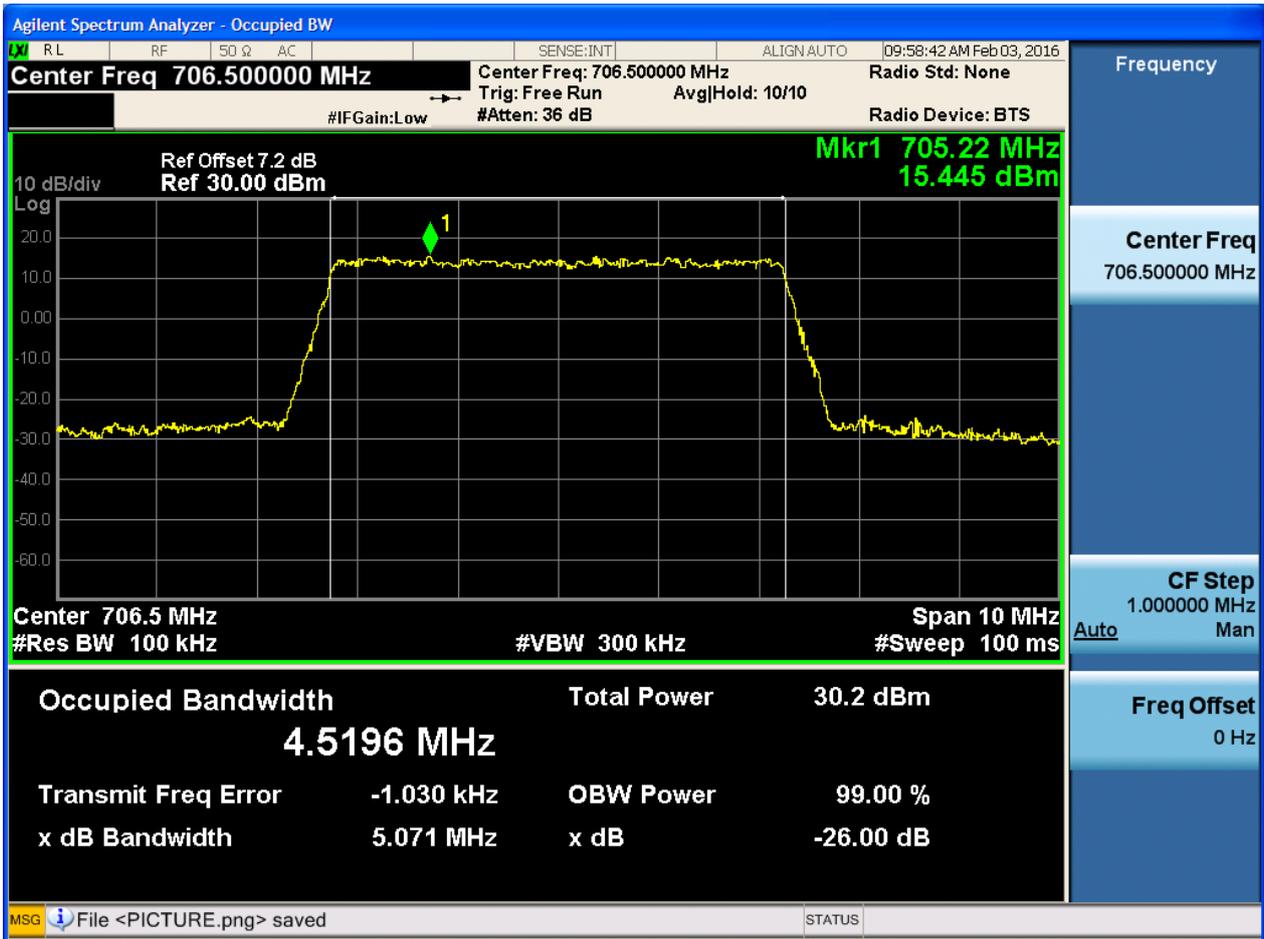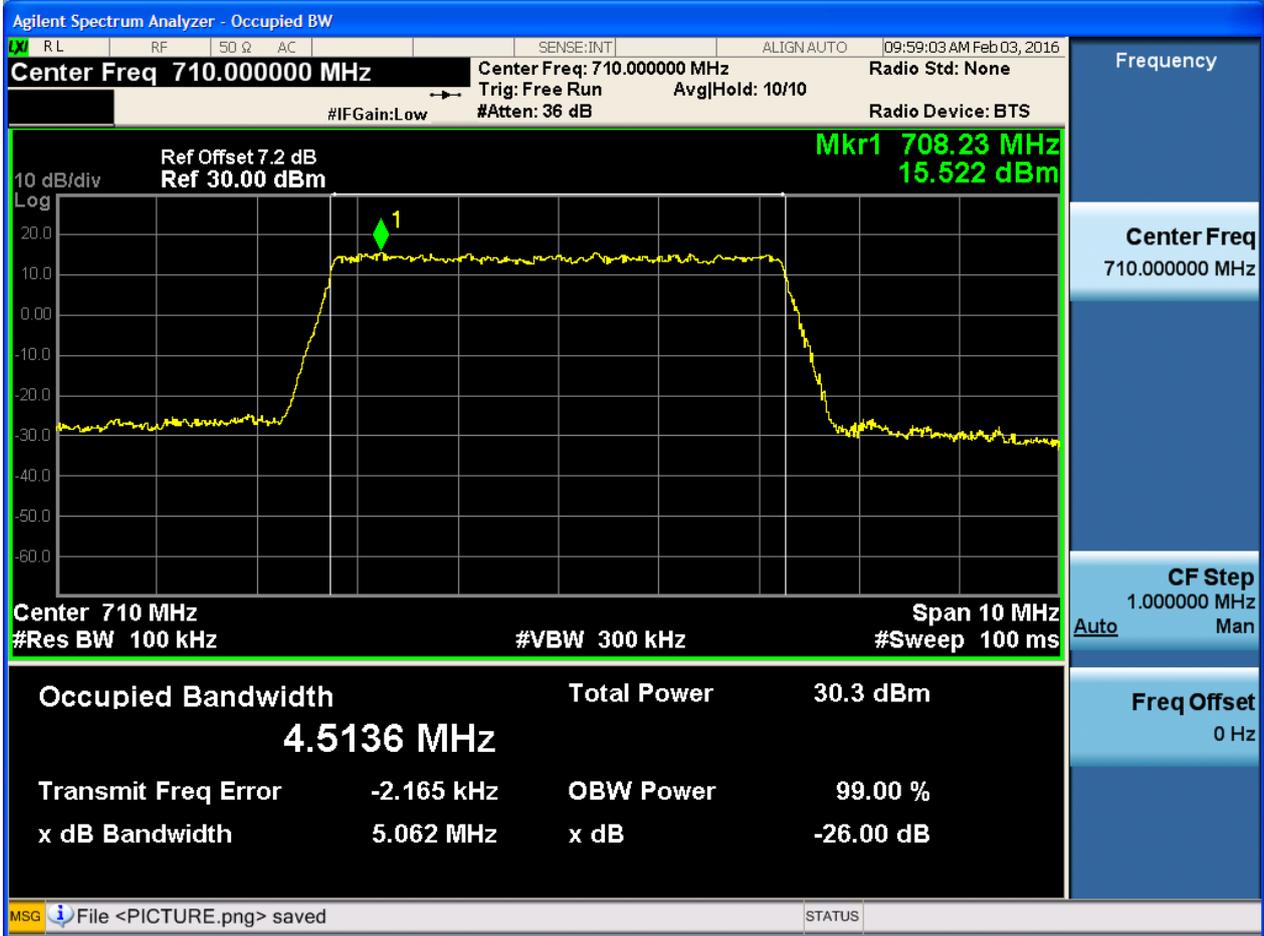### 3.1.2.2.2 Test Bandwidth = 10

3.1.2.2.2.1 Test Channel = MCH

3.1.2.2.2.1.1 Test RB = RB50#0
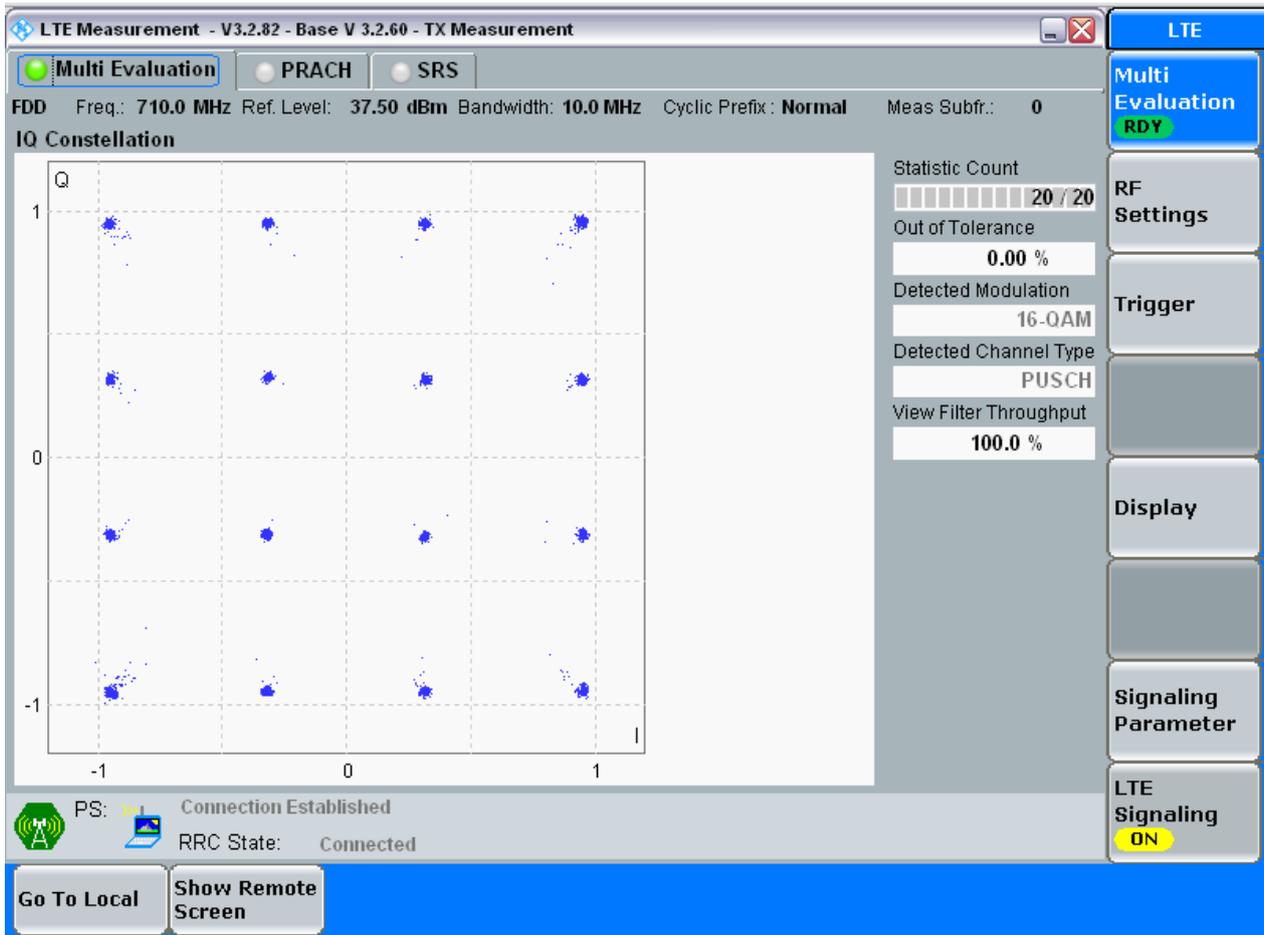
4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND12	LTE/TM1	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.09	1.26	Pass
			HCH	RB6#0	1.09	1.26	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.93	Pass
			HCH	RB15#0	2.70	2.94	Pass
		5	LCH	RB25#0	4.51	4.88	Pass
			MCH	RB25#0	4.51	4.92	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.99	9.65	Pass
			MCH	RB50#0	9.00	9.64	Pass
			HCH	RB50#0	8.99	9.62	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.09	1.27	Pass
			HCH	RB6#0	1.09	1.27	Pass
		3	LCH	RB15#0	2.70	2.93	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.70	2.92	Pass
		5	LCH	RB25#0	4.51	4.90	Pass
			MCH	RB25#0	4.51	4.90	Pass
			HCH	RB25#0	4.51	4.87	Pass
		10	LCH	RB50#0	9.00	9.63	Pass
			MCH	RB50#0	9.00	9.62	Pass
			HCH	RB50#0	8.98	9.62	Pass
BAND17	LTE/TM1	5	LCH	RB25#0	4.53	5.05	Pass
			MCH	RB25#0	4.52	5.04	Pass
			HCH	RB25#0	4.52	5.04	Pass
		10	LCH	RB50#0	9.02	9.99	Pass
			MCH	RB50#0	9.02	9.98	Pass
			HCH	RB50#0	9.00	9.96	Pass

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	LTE/TM2	5	LCH	RB25#0	4.52	5.07	Pass
			MCH	RB25#0	4.51	5.06	Pass
			HCH	RB25#0	4.51	5.05	Pass
		10	LCH	RB50#0	9.00	10.01	Pass
			MCH	RB50#0	9.00	10.03	Pass
			HCH	RB50#0	9.01	9.99	Pass

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = BAND12

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
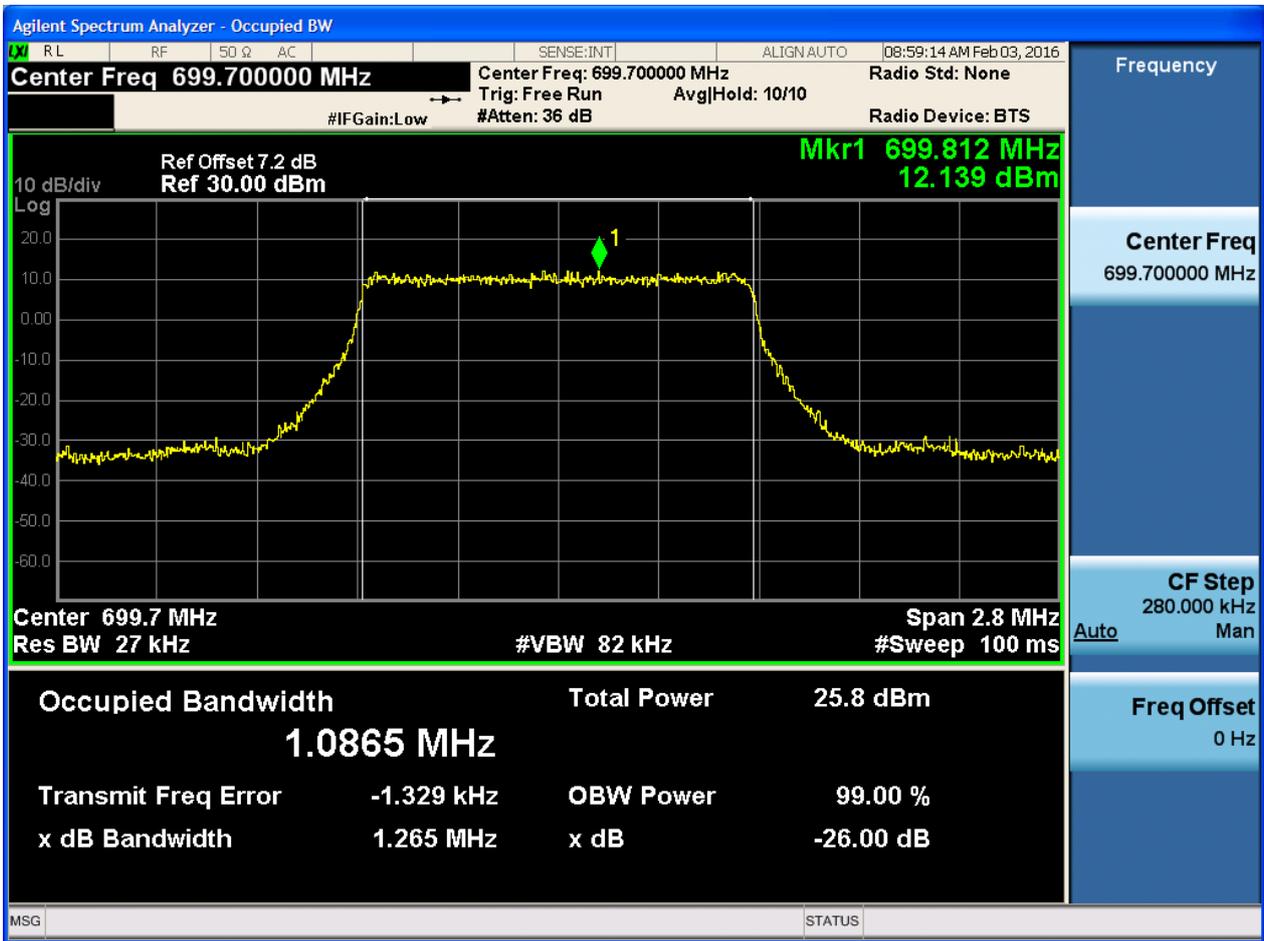
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0
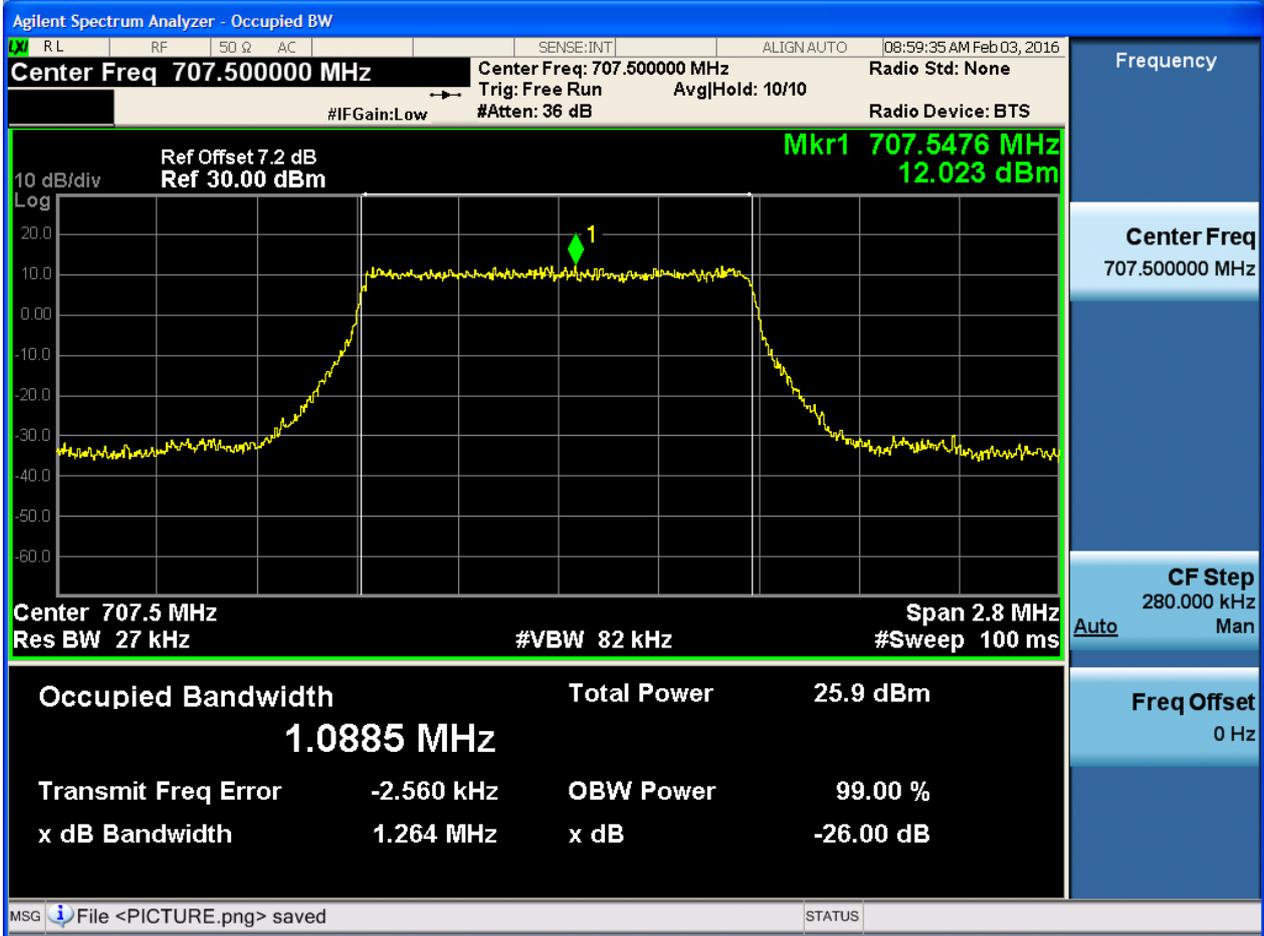
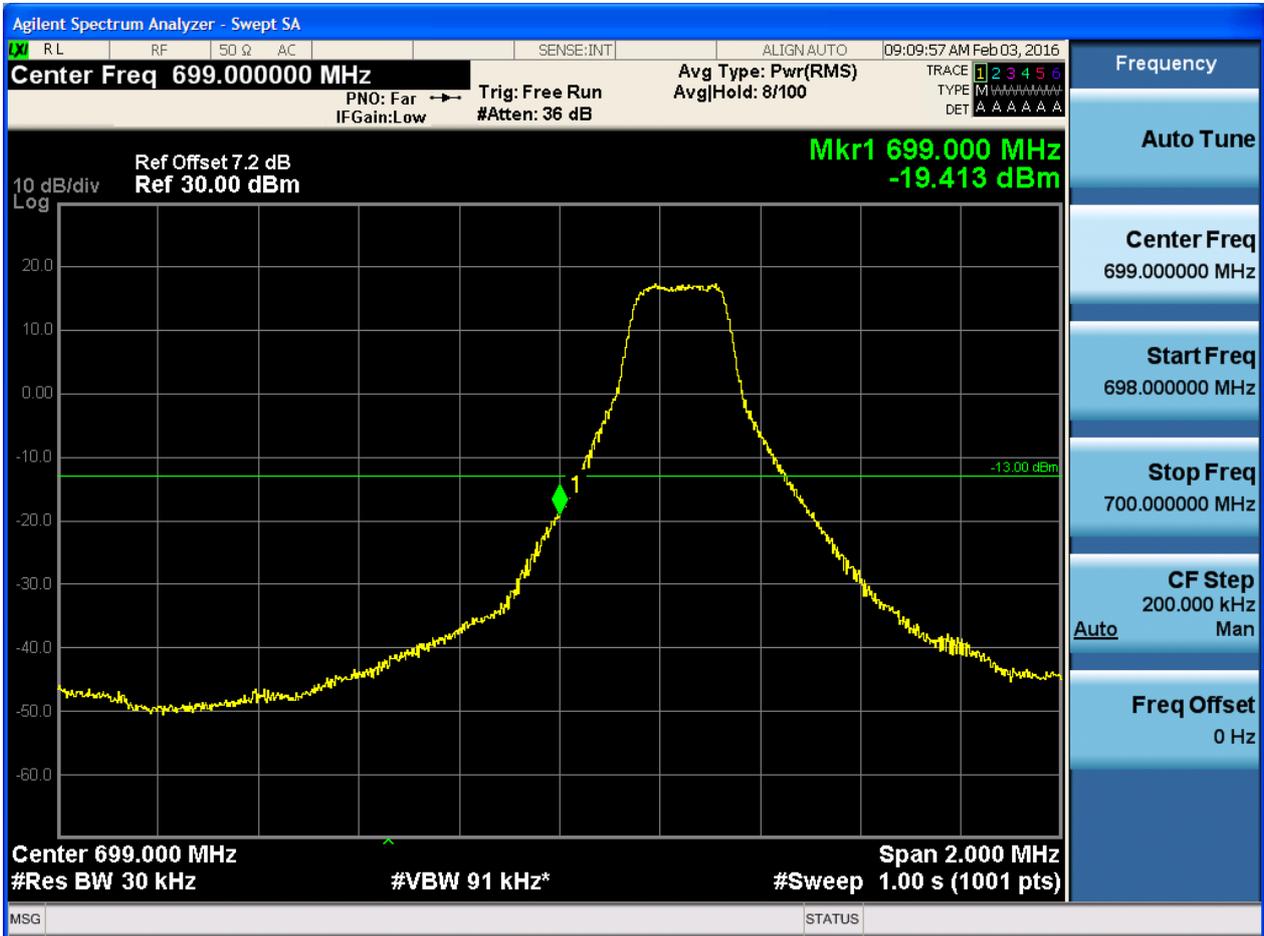### 4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0
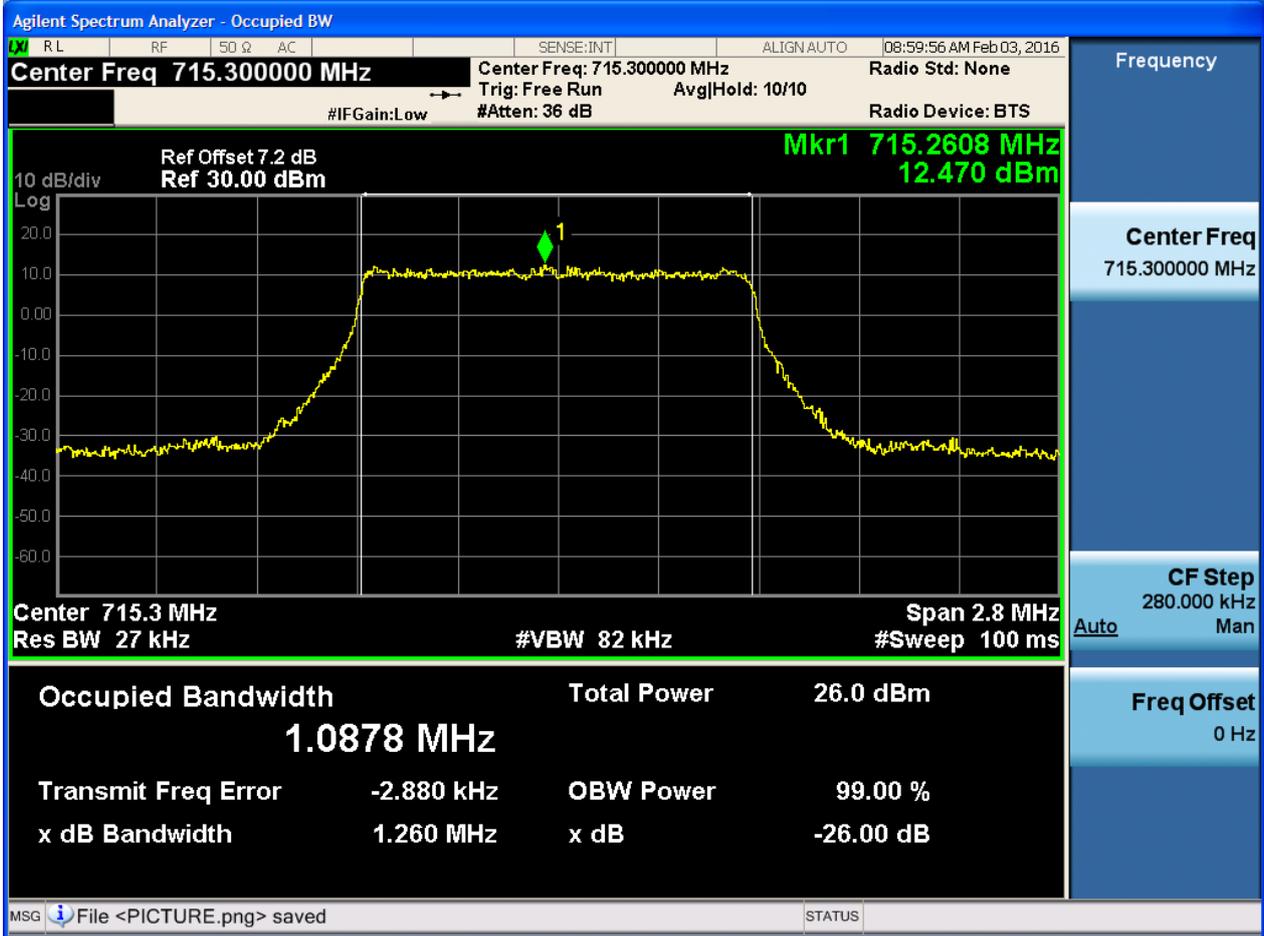
4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0
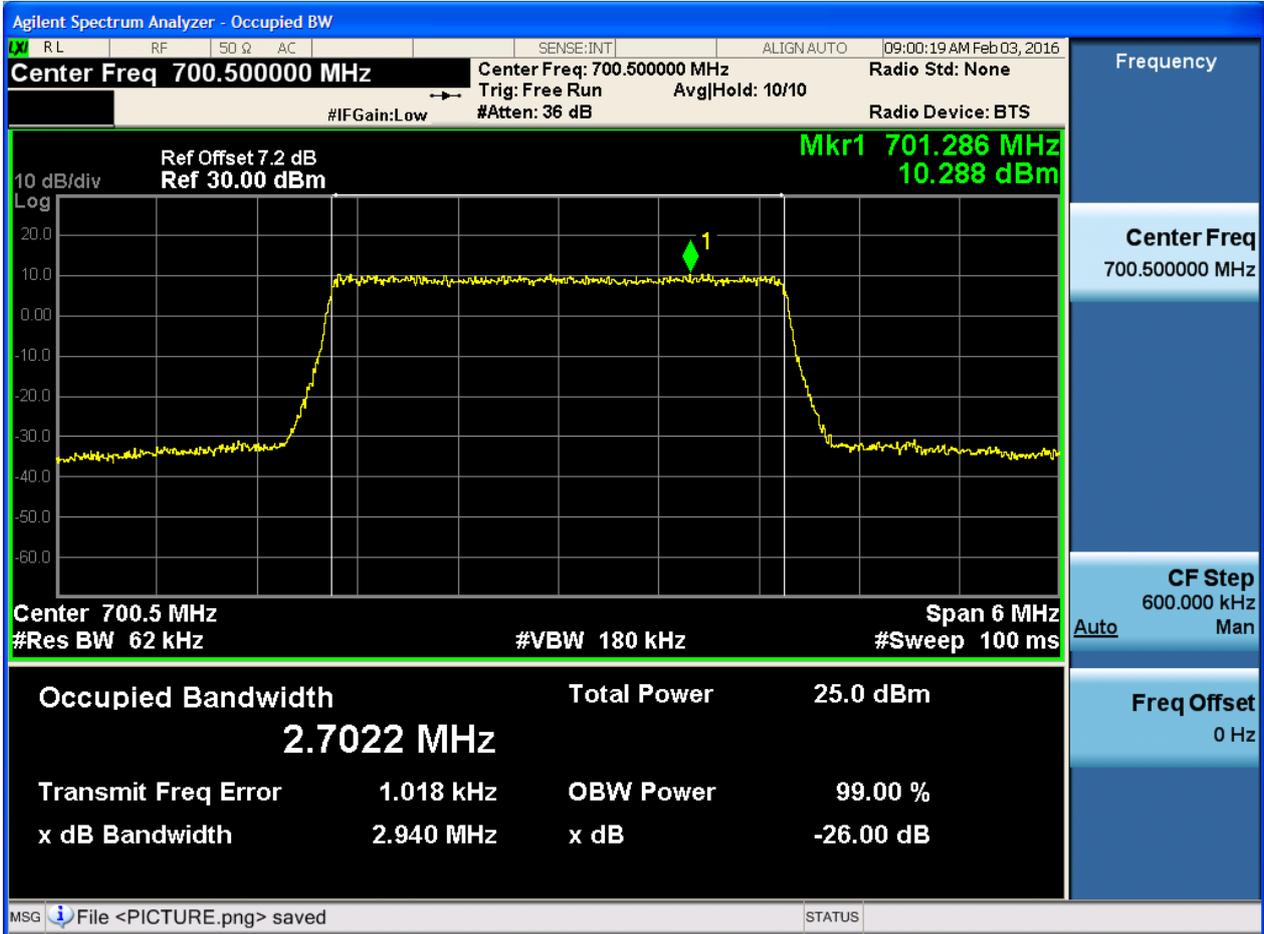
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0
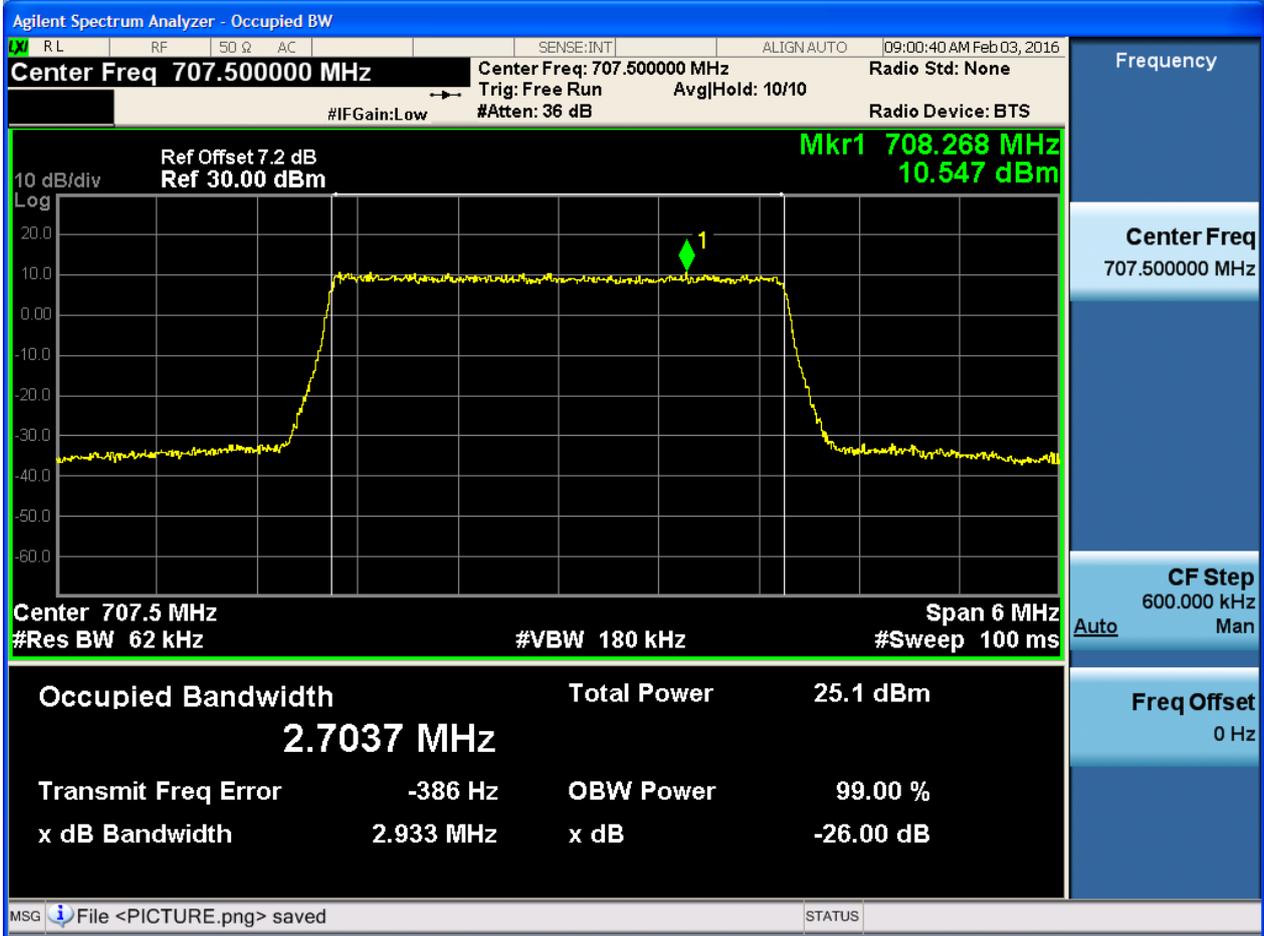
4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0
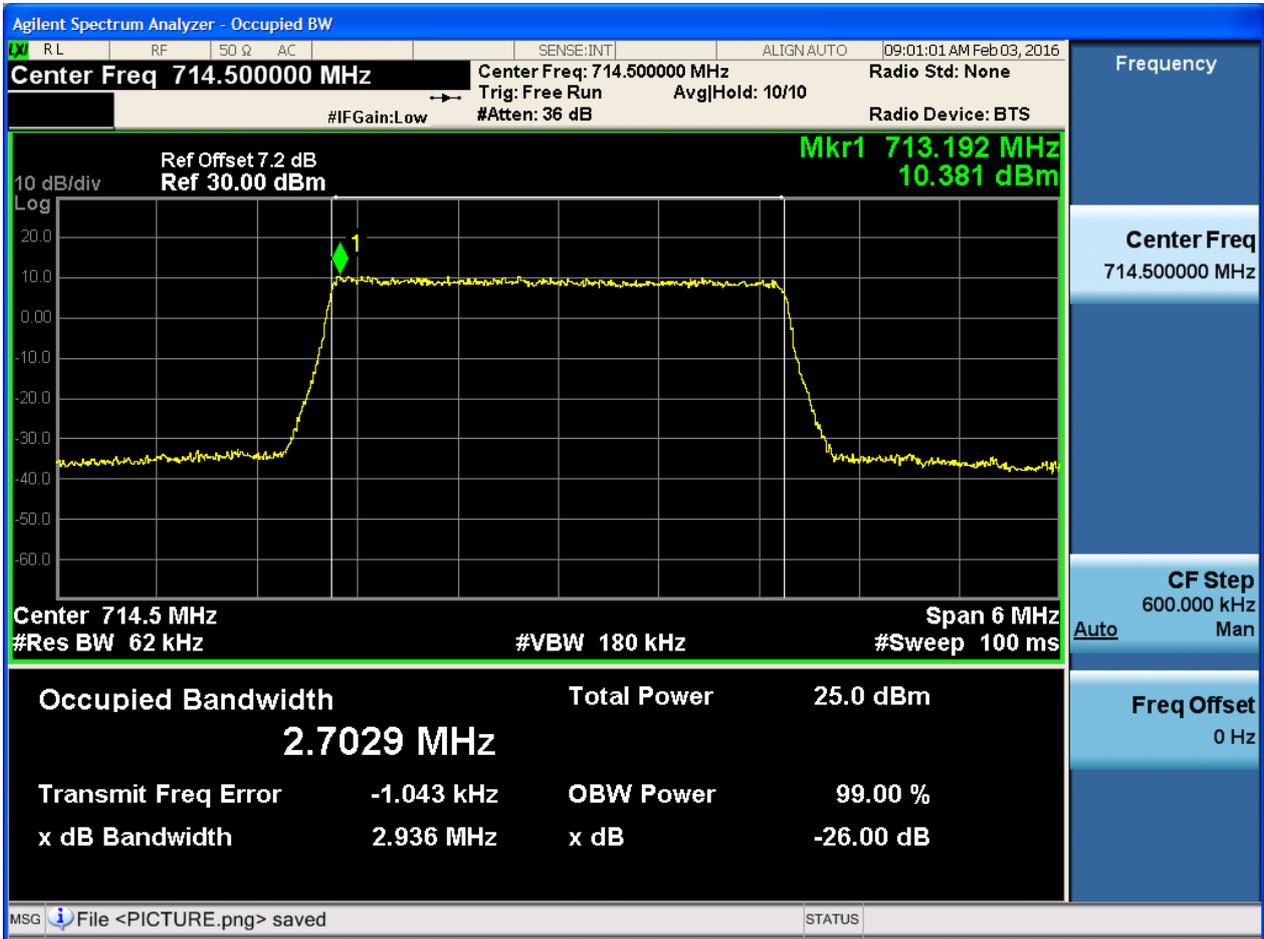
4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0
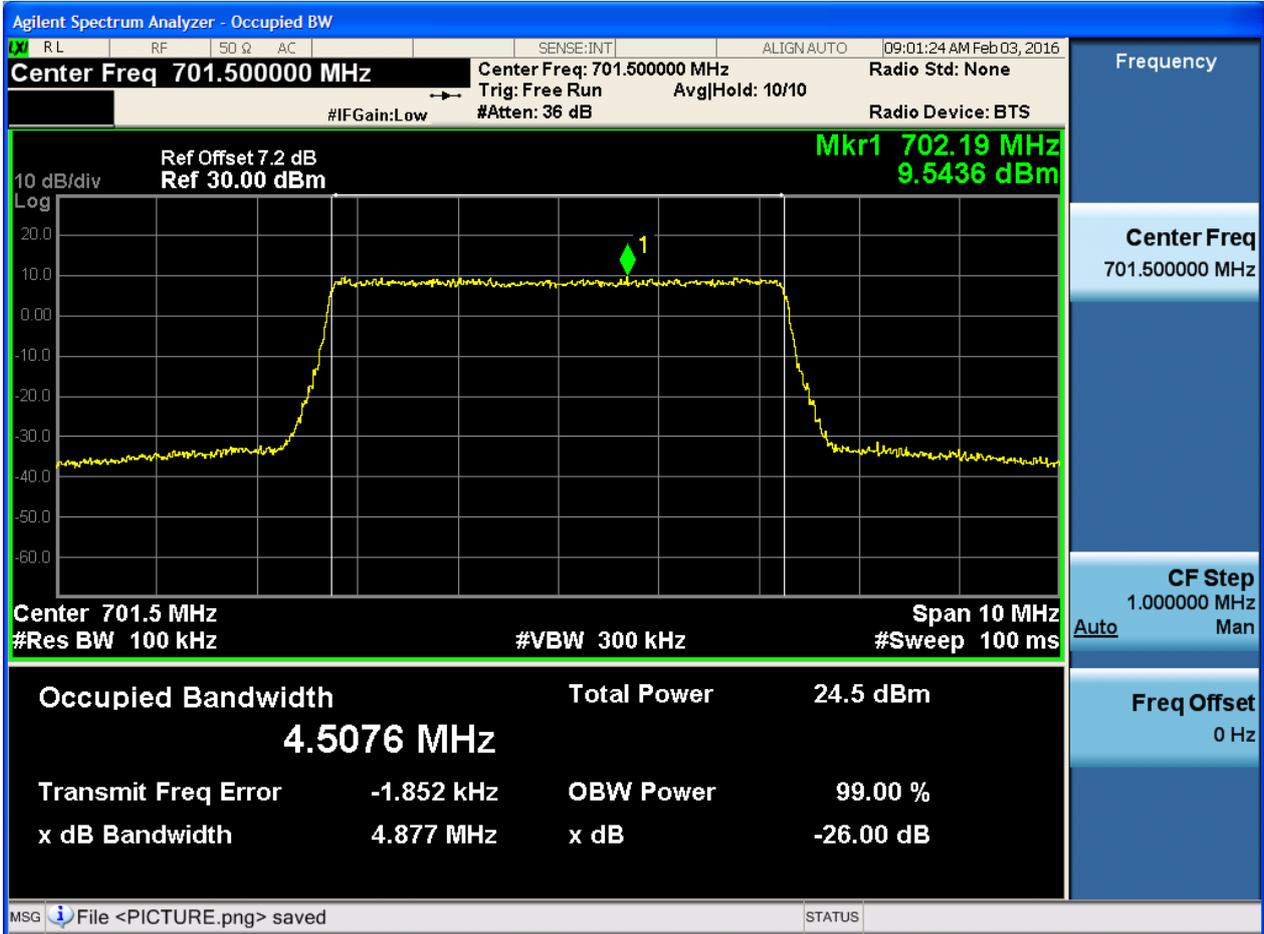
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB25#0
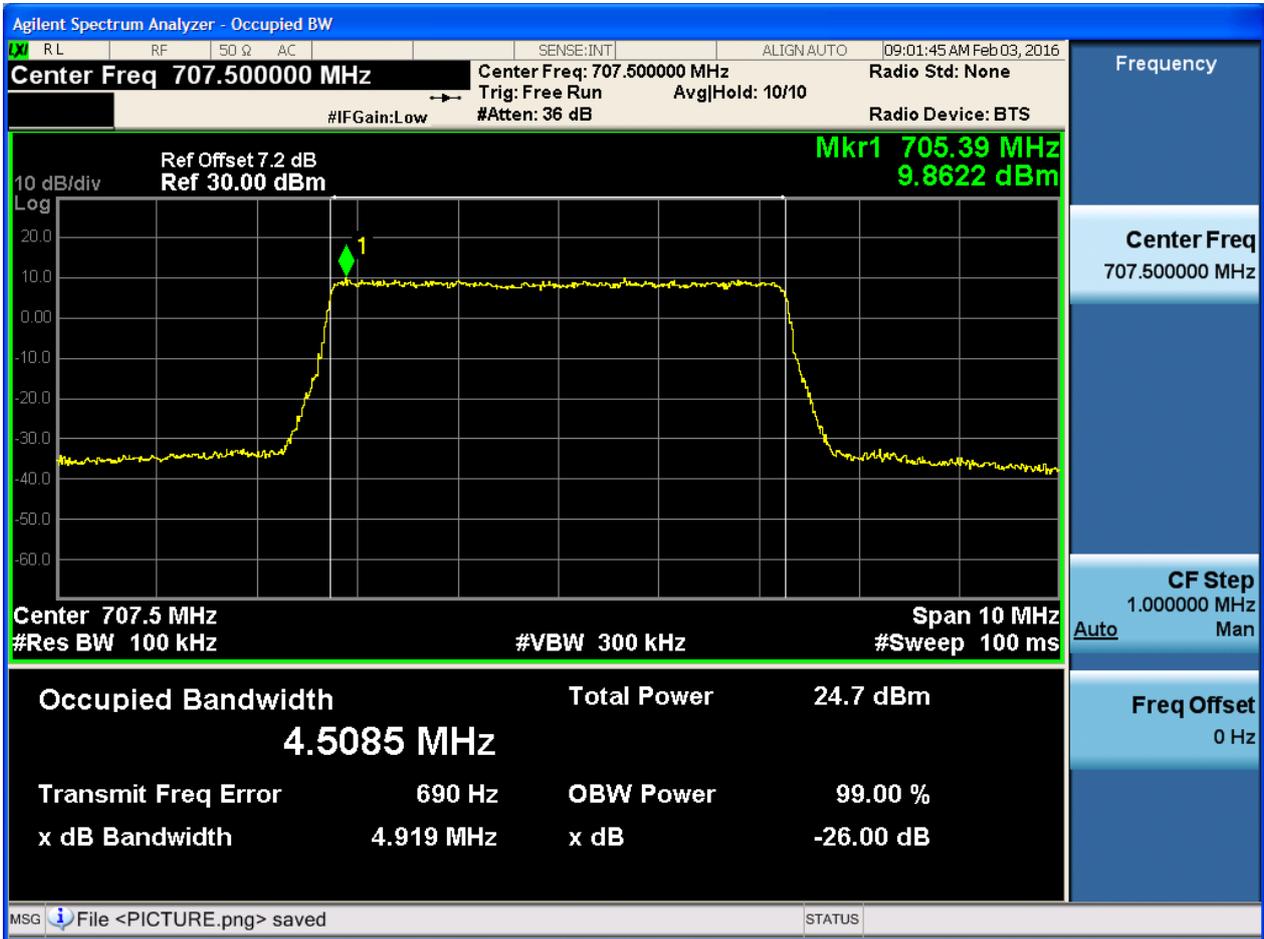
4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0
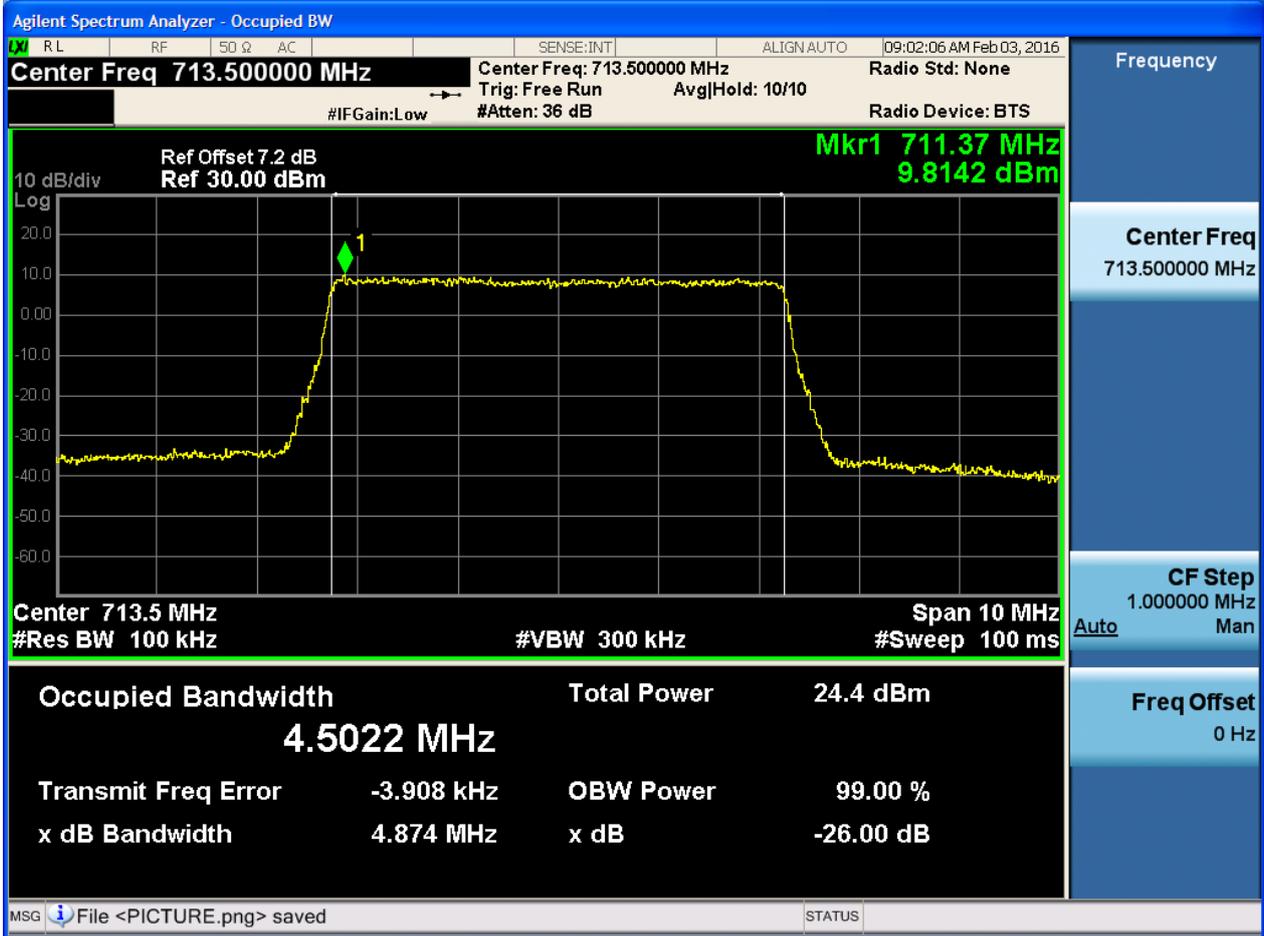
4.1.1.1.4 Test Bandwidth = 10

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

Agilent Spectrum Analyzer - Occupied BW

LXI R L | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 09:02:50 AM Feb 03, 2016

Center Freq 707.500000 MHz

Center Freq: 707.500000 MHz Radio Std: None
Trig: Free Run Avg|Hold: 10/10
#IFGain:Low #Atten: 36 dB Radio Device: BTS

Ref Offset 7.2 dB
10 dB/div Ref 30.00 dBm
Log

Mkr1 705.32 MHz
8.7301 dBm

Center 707.5 MHz Span 20 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms

Occupied Bandwidth		Total Power	23.9 dBm
	9.0016 MHz		
Transmit Freq Error	-2.868 kHz	OBW Power	99.00 %
x dB Bandwidth	9.635 MHz	x dB	-26.00 dB

MSG File <PICTURE.png> saved STATUS

Frequency

Center Freq
707.500000 MHz

CF Step
2.000000 MHz
Auto Man

Freq Offset
0 Hz

4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#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
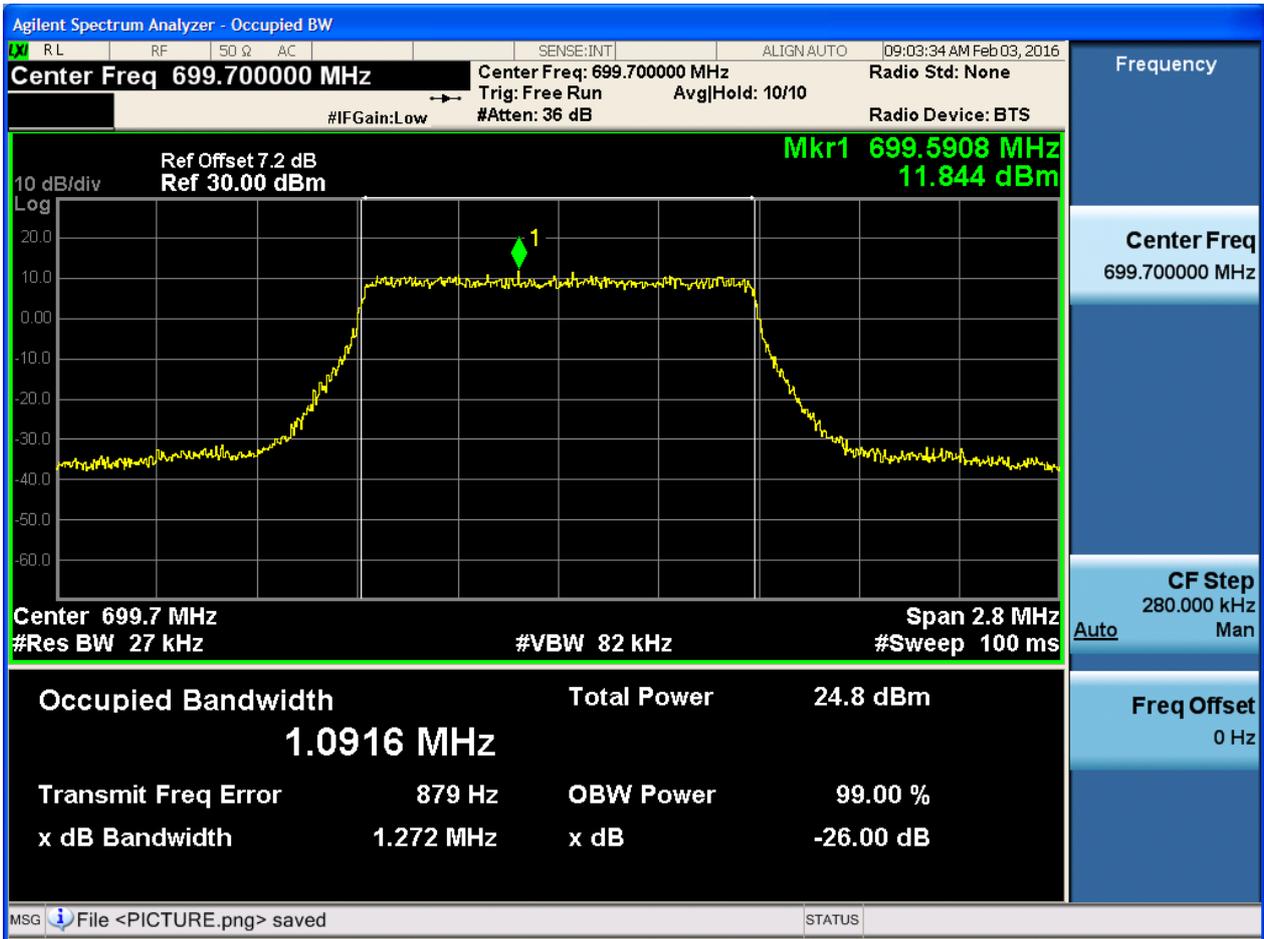
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0
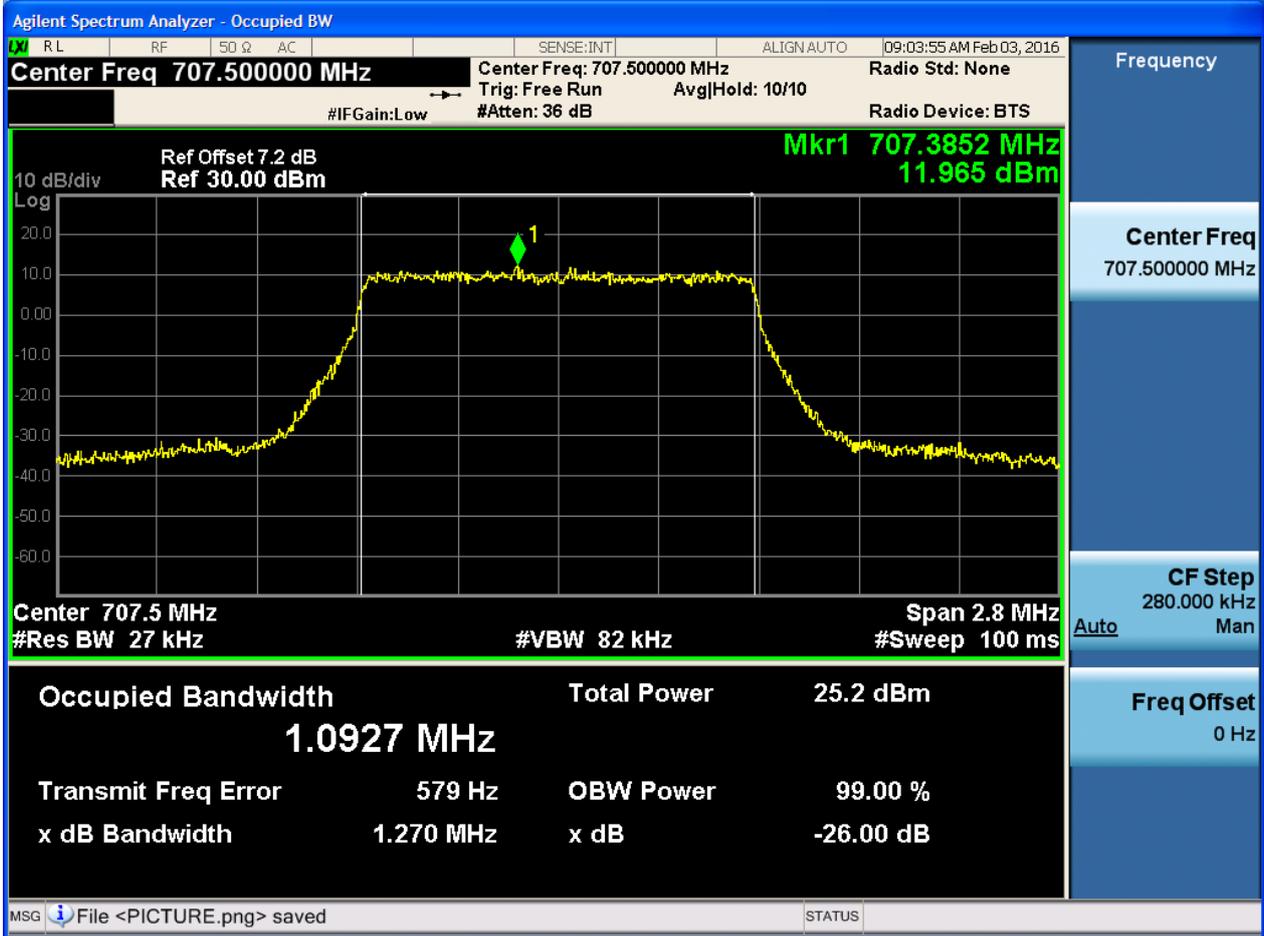
4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0
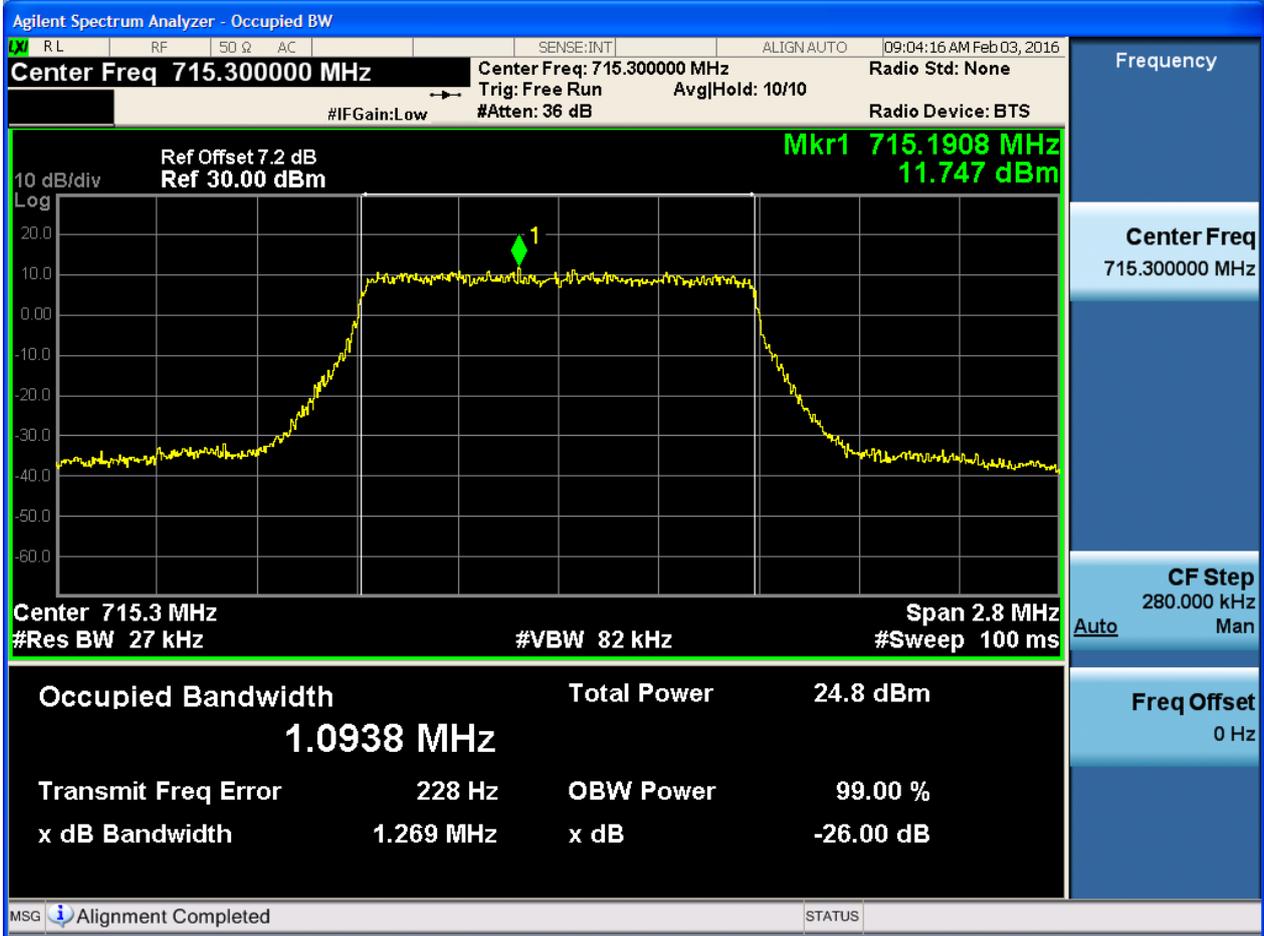
4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0
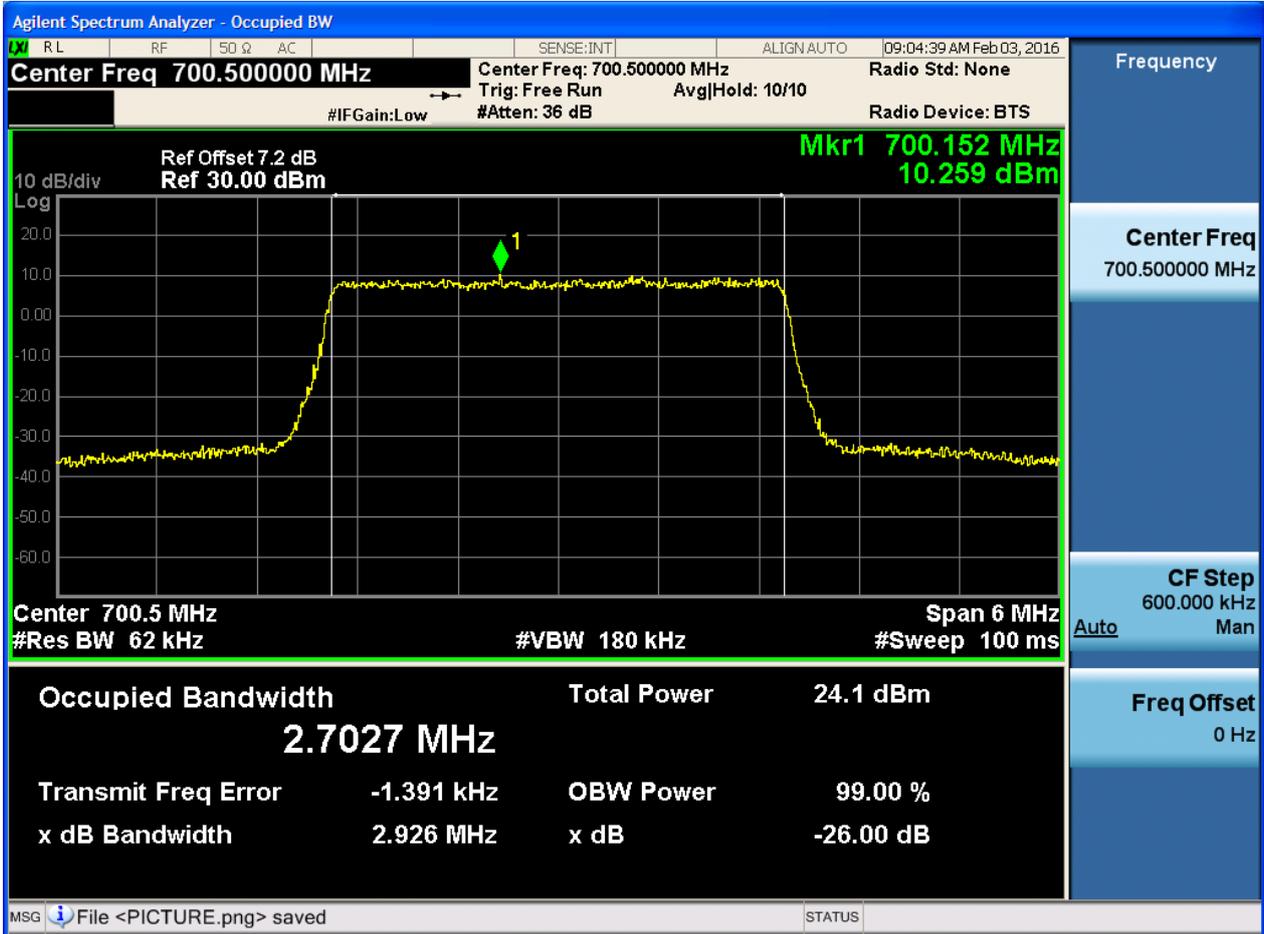
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB15#0

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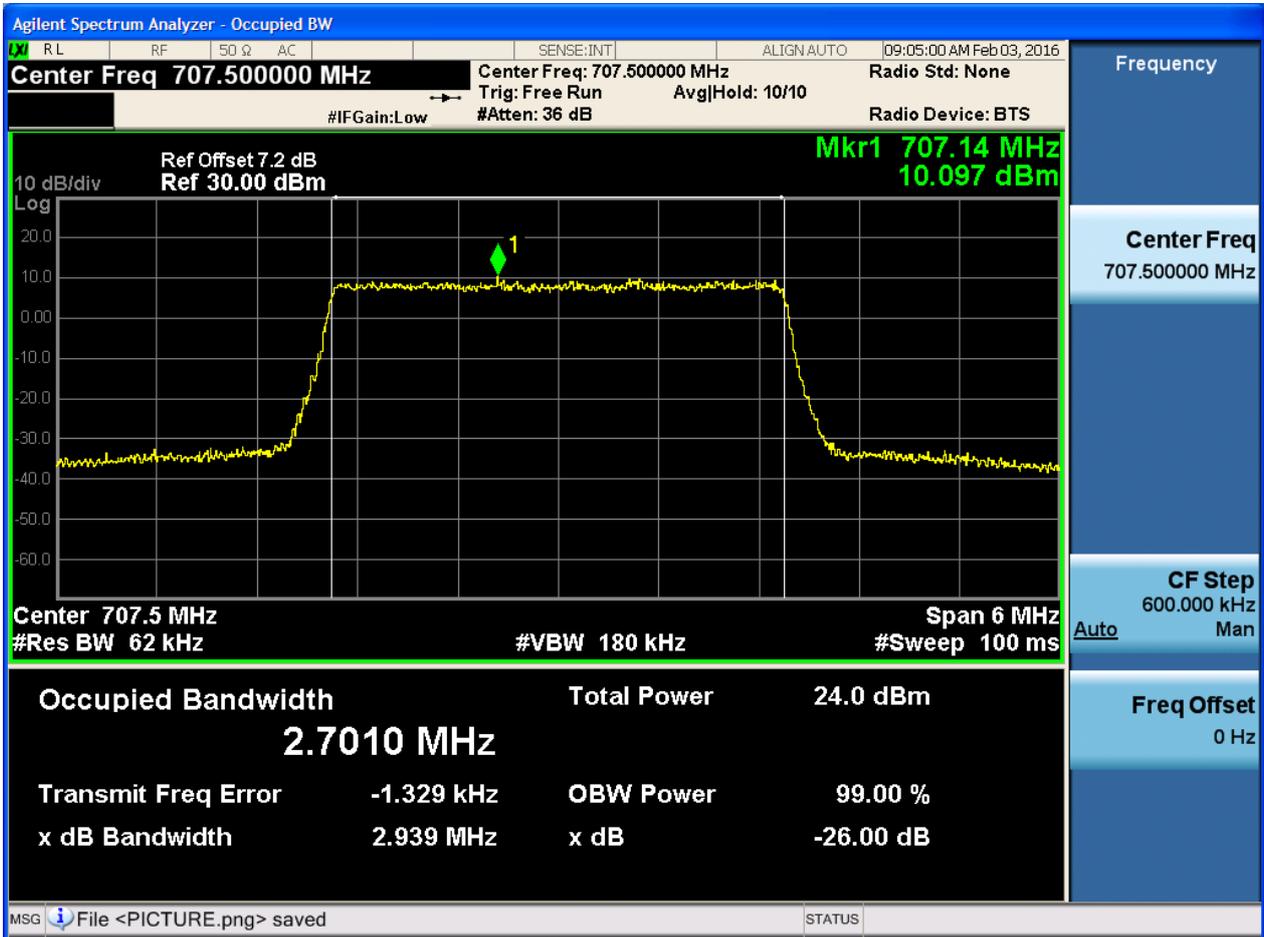
4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0
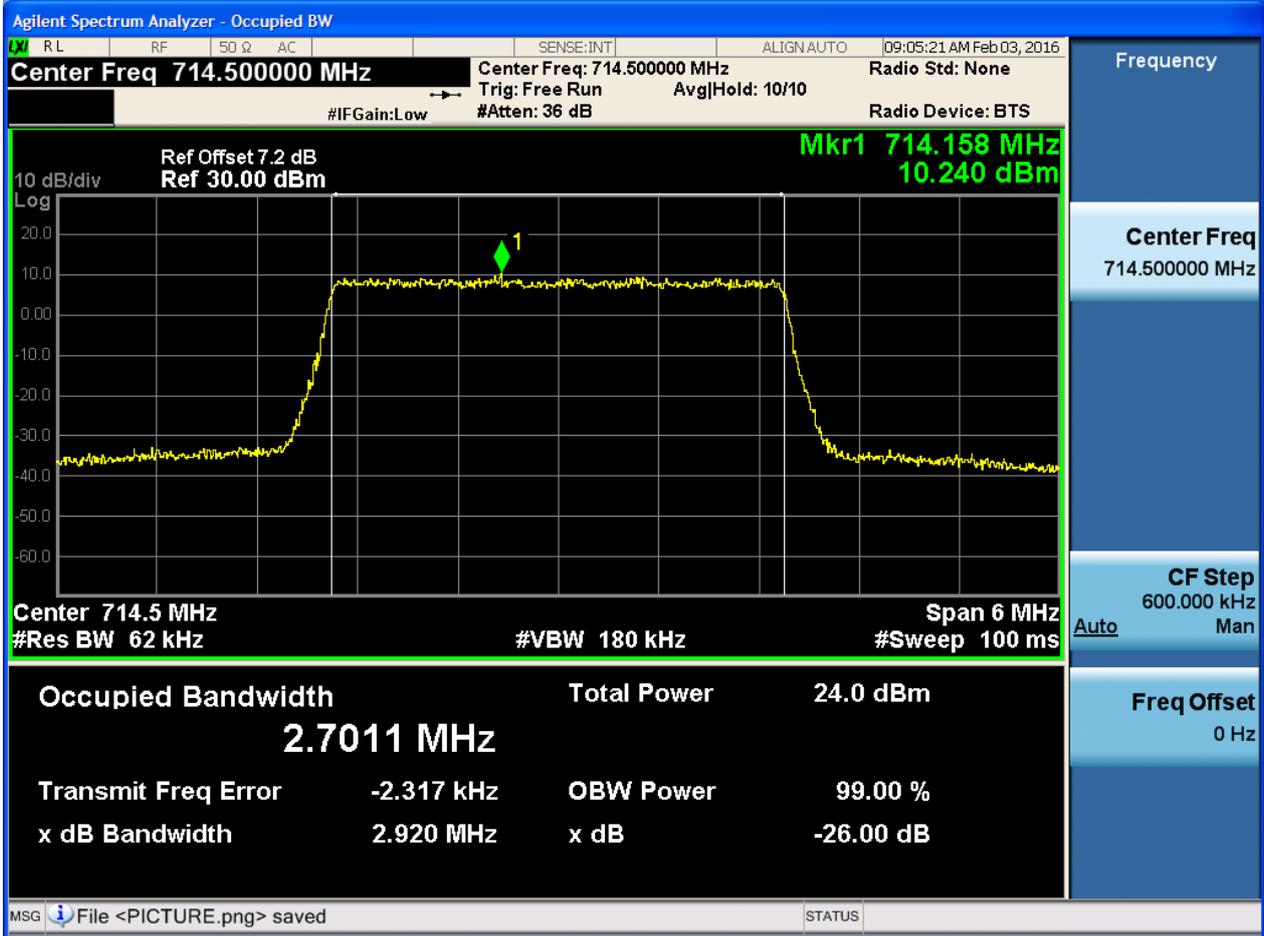
4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0
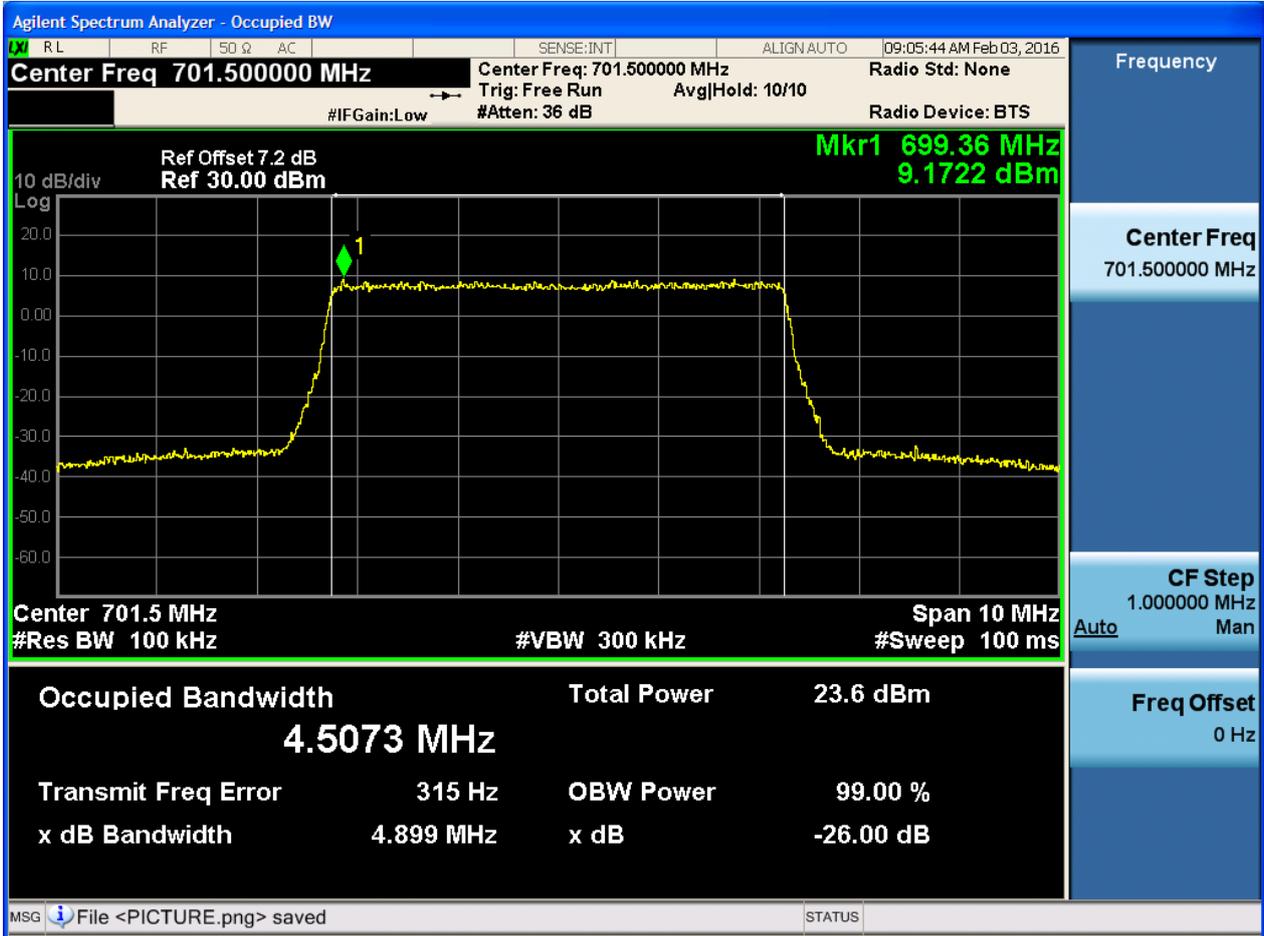
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB25#0
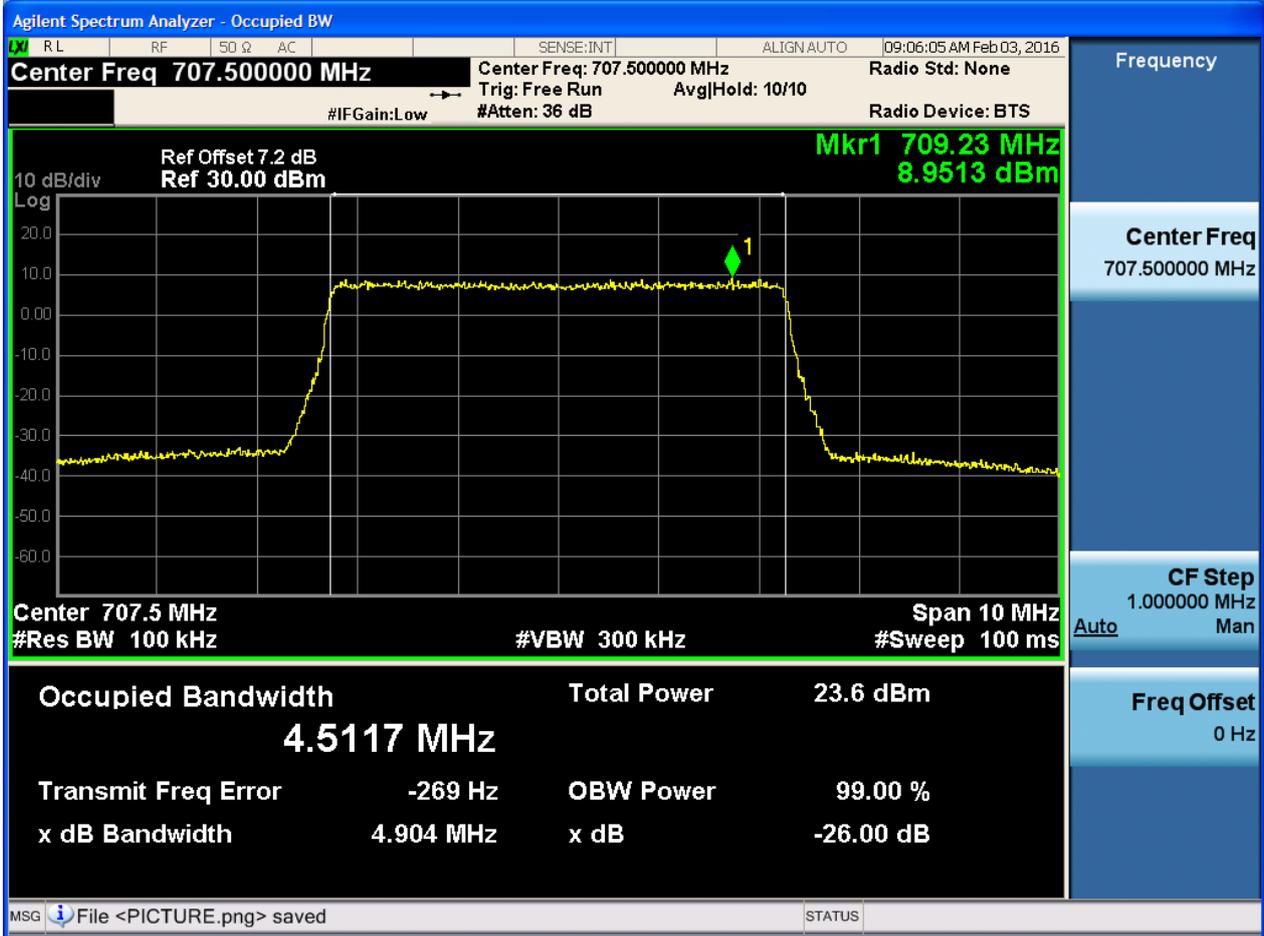
4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0
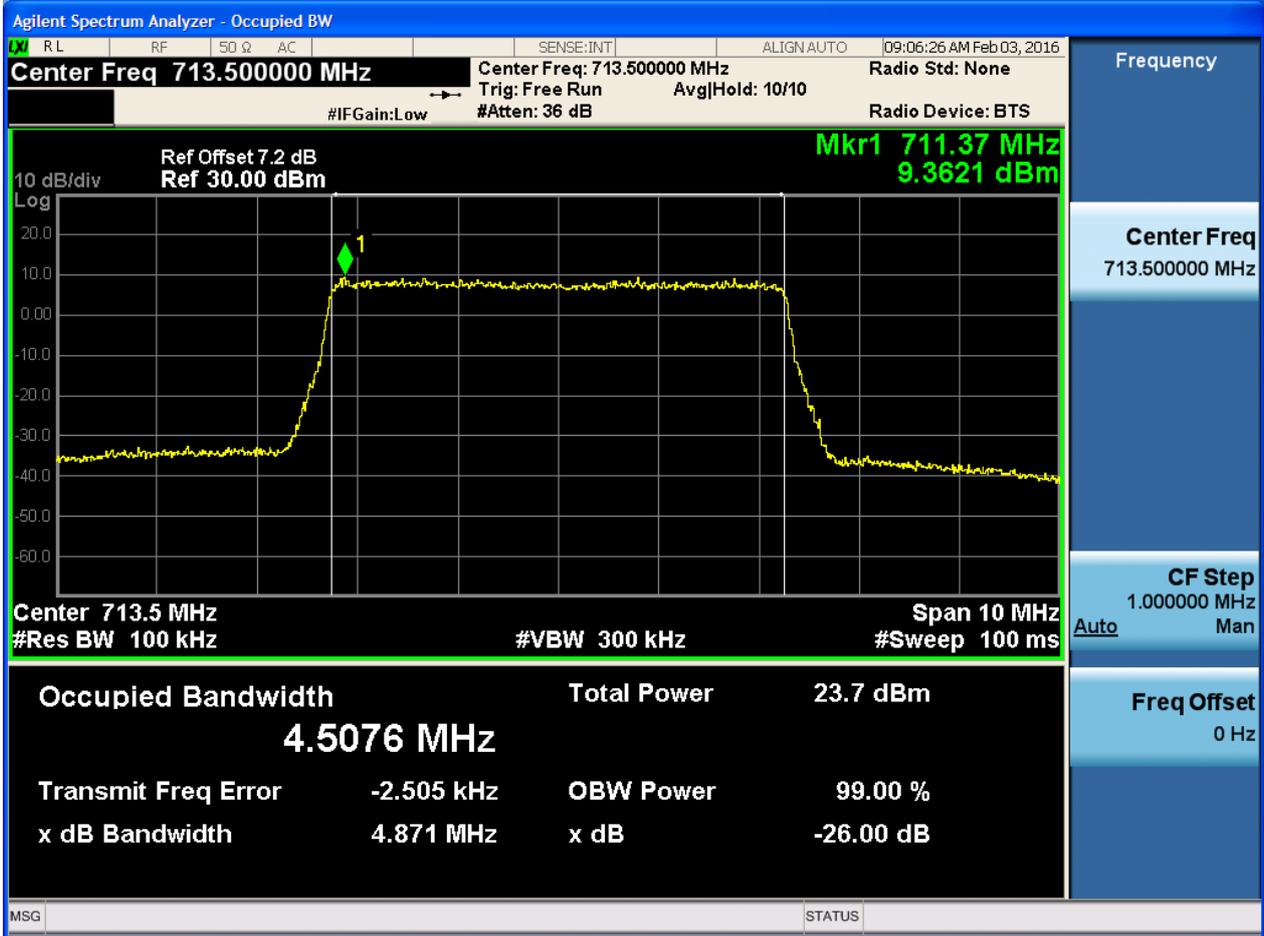
4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0
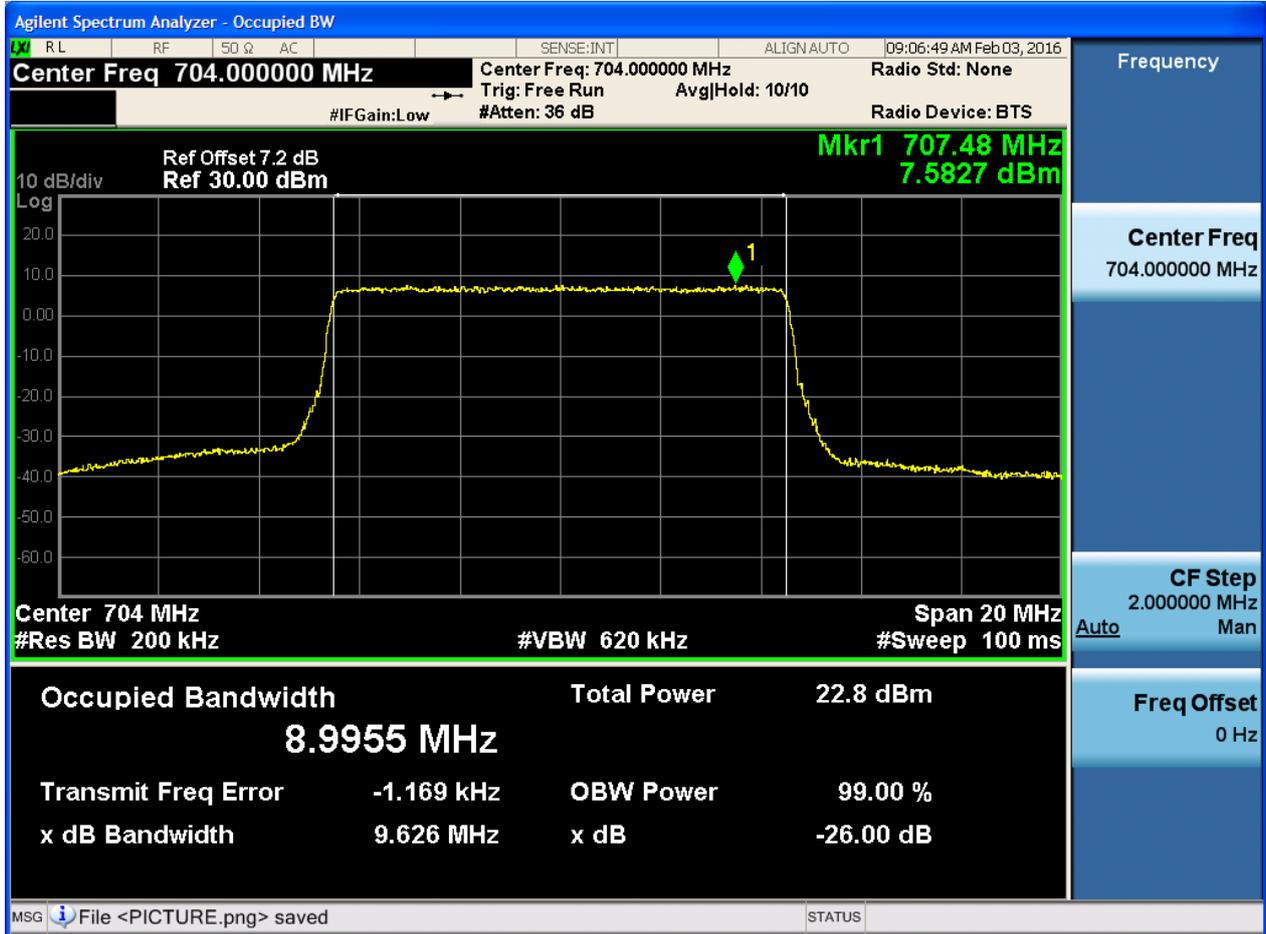
4.1.1.2.4.2 Test Channel = MCH

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
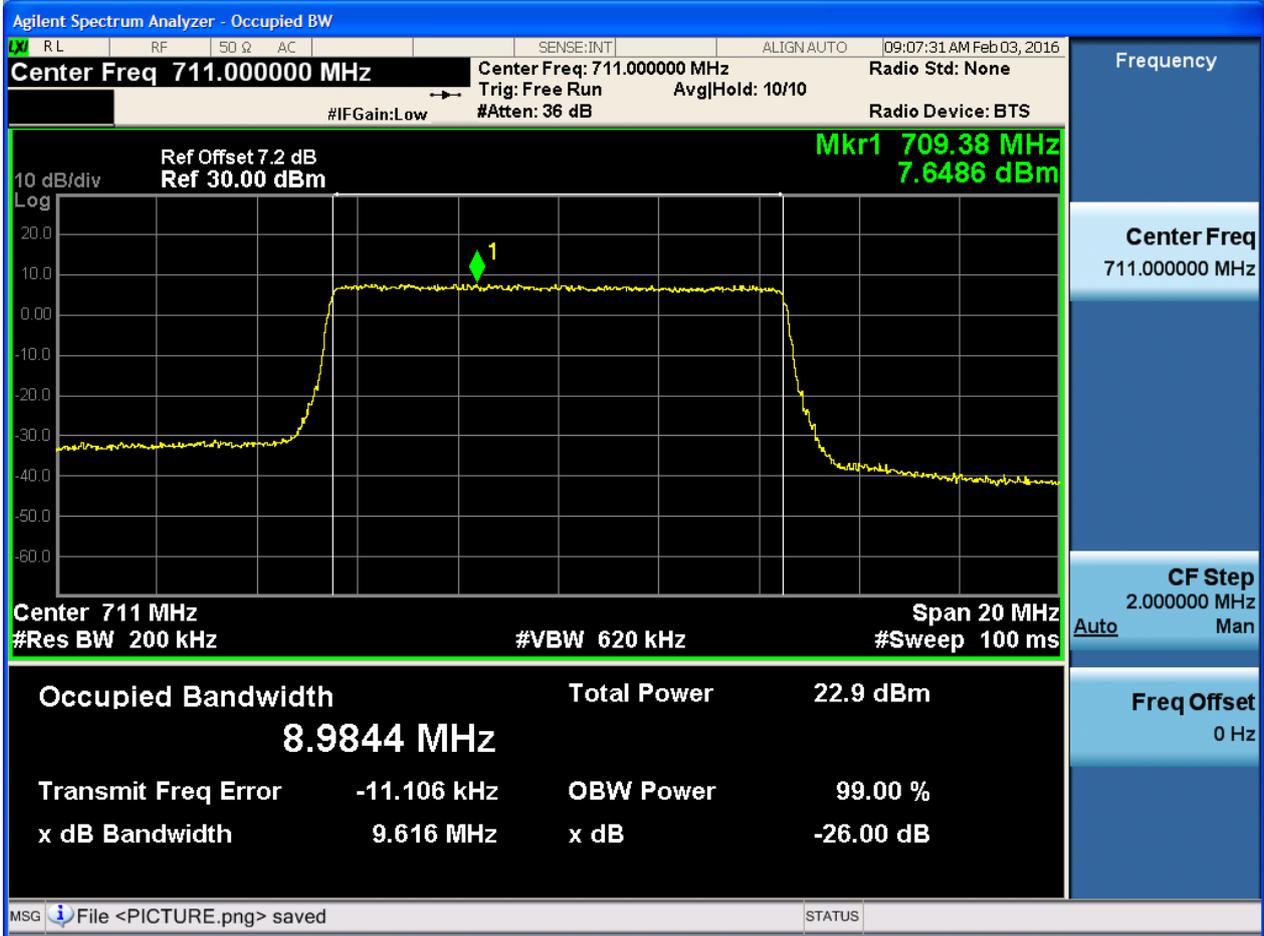
4.1.2 Test Band = BAND17

4.1.2.1 Test Mode = LTE/TM1

4.1.2.1.1 Test Bandwidth = 5

4.1.2.1.1.1 Test Channel = LCH

4.1.2.1.1.1.1 Test RB = RB25#0
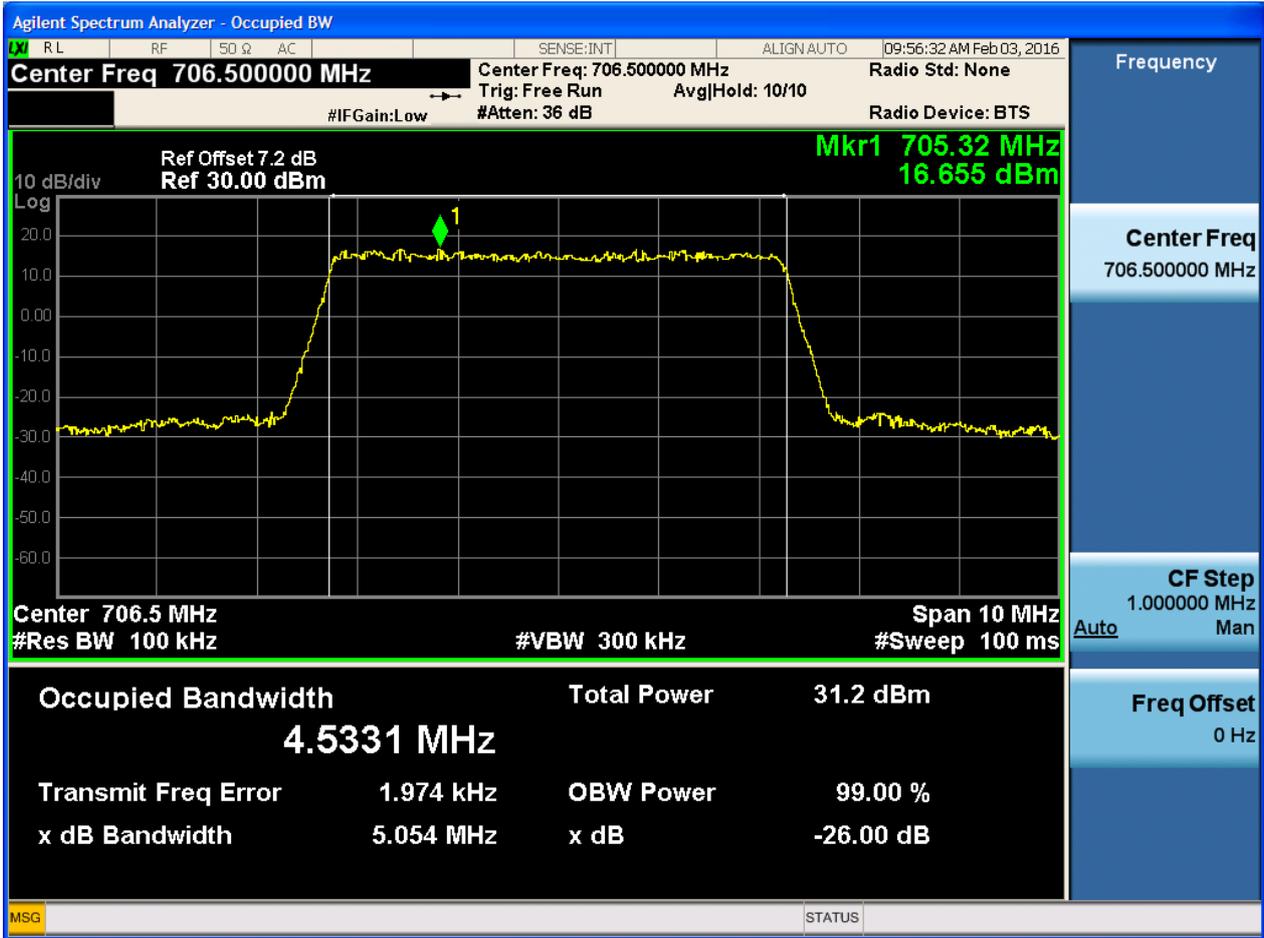
4.1.2.1.1.2 Test Channel = MCH

4.1.2.1.1.2.1 Test RB = RB25#0

4.1.2.1.1.3 Test Channel = HCH

4.1.2.1.1.3.1 Test RB = RB25#0

Agilent Spectrum Analyzer - Occupied BW

Center Freq 713.500000 MHz	Center Freq: 713.500000 MHz — Radio Std: None
#IFGain:Low	Trig: Free Run Avg|Hold:>10/10
	#Atten: 36 dB Radio Device: BTS

Mkr1 711.7 MHz
16.776 dBm

Ref Offset 7.2 dB
10 dB/div   Ref 30.00 dBm

Center 713.5 MHz   Span 10 MHz
#Res BW 100 kHz   #VBW 300 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	31.4 dBm
4.5236 MHz			
Transmit Freq Error	-2.189 kHz	OBW Power	99.00 %
x dB Bandwidth	5.043 MHz	x dB	-26.00 dB

MSG File <PICTURE.png> saved   STATUS

4.1.2.1.2 Test Bandwidth = 10

4.1.2.1.2.1 Test Channel = LCH

4.1.2.1.2.1.1 Test RB = RB50#0

4.1.2.1.2.2 Test Channel = MCH

4.1.2.1.2.2.1 Test RB = RB50#0
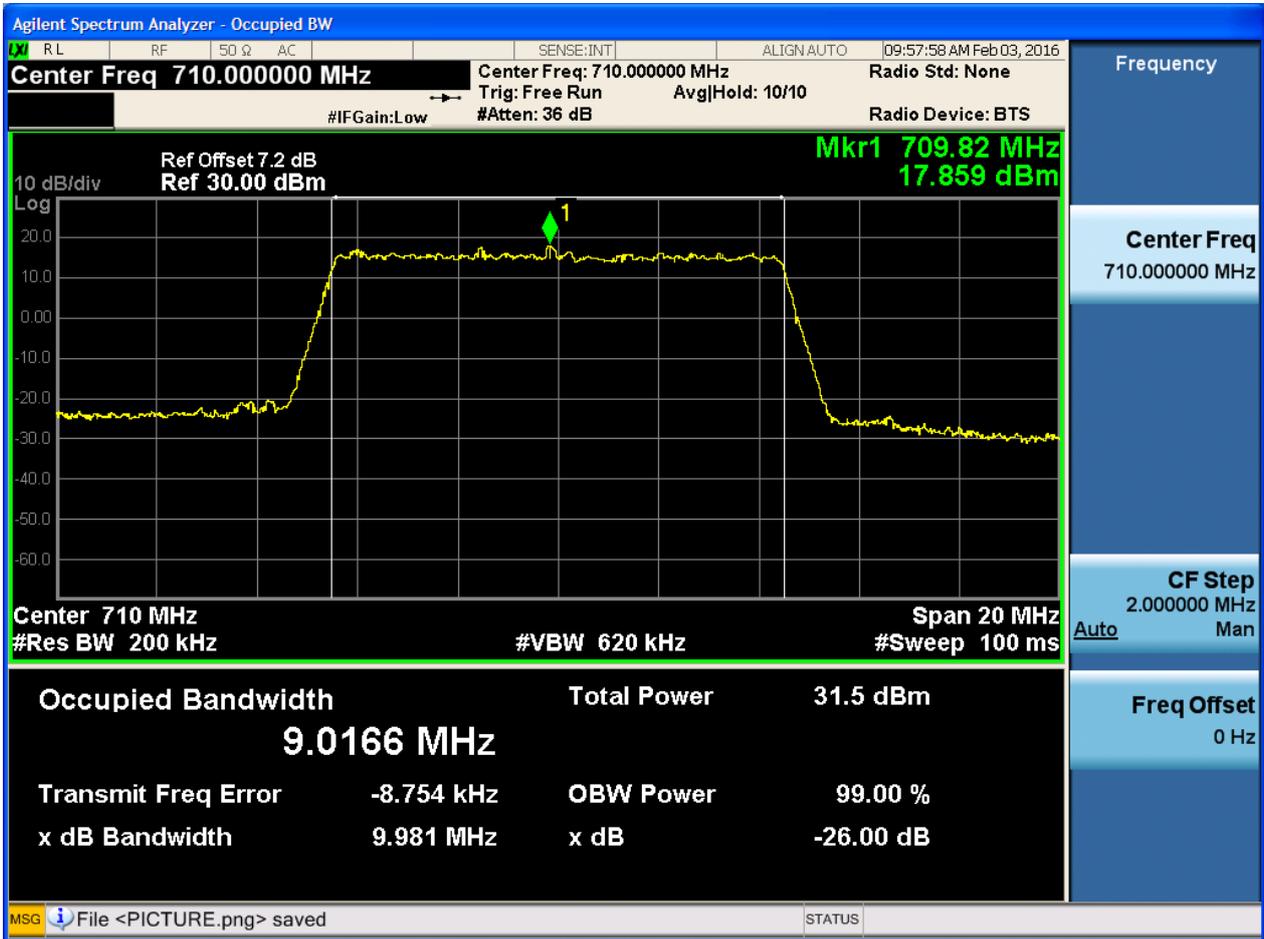
4.1.2.1.2.3 Test Channel = HCH

4.1.2.1.2.3.1 Test RB = RB50#0

4.1.2.2 Test Mode = LTE/TM2

4.1.2.2.1 Test Bandwidth = 5

4.1.2.2.1.1 Test Channel = LCH

4.1.2.2.1.1.1 Test RB = RB25#0

4.1.2.2.1.2 Test Channel = MCH

4.1.2.2.1.2.1 Test RB = RB25#0

4.1.2.2.1.3 Test Channel = HCH

4.1.2.2.1.3.1 Test RB = RB25#0

4.1.2.2.2 Test Bandwidth = 10

4.1.2.2.2.1 Test Channel = LCH

4.1.2.2.2.1.1 Test RB = RB50#0

4.1.2.2.2.2 Test Channel = MCH

4.1.2.2.2.2.1 Test RB = RB50#0

4.1.2.2.2.3 Test Channel = HCH

4.1.2.2.2.3.1 Test RB = RB50#0
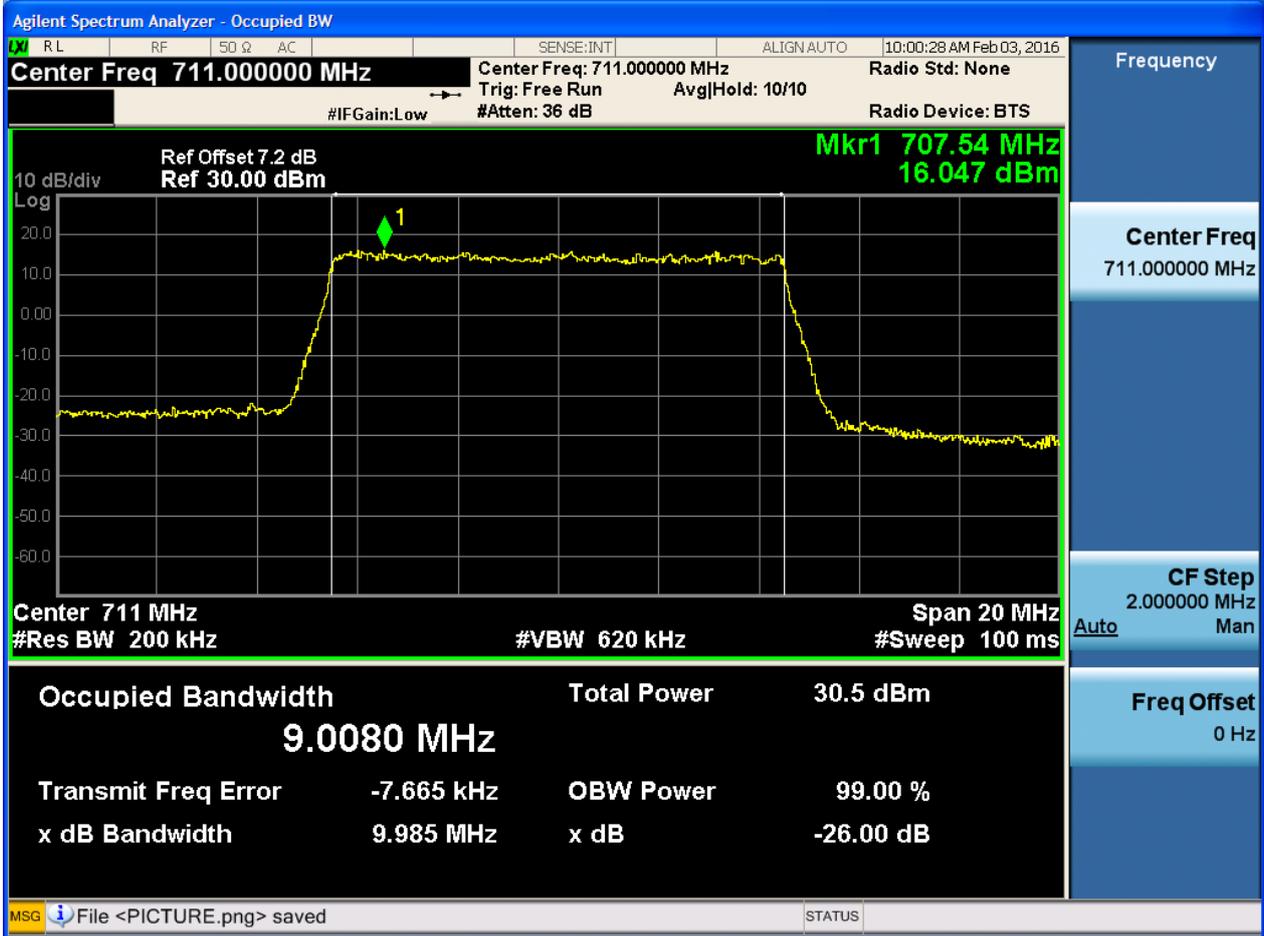
5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = BAND12

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
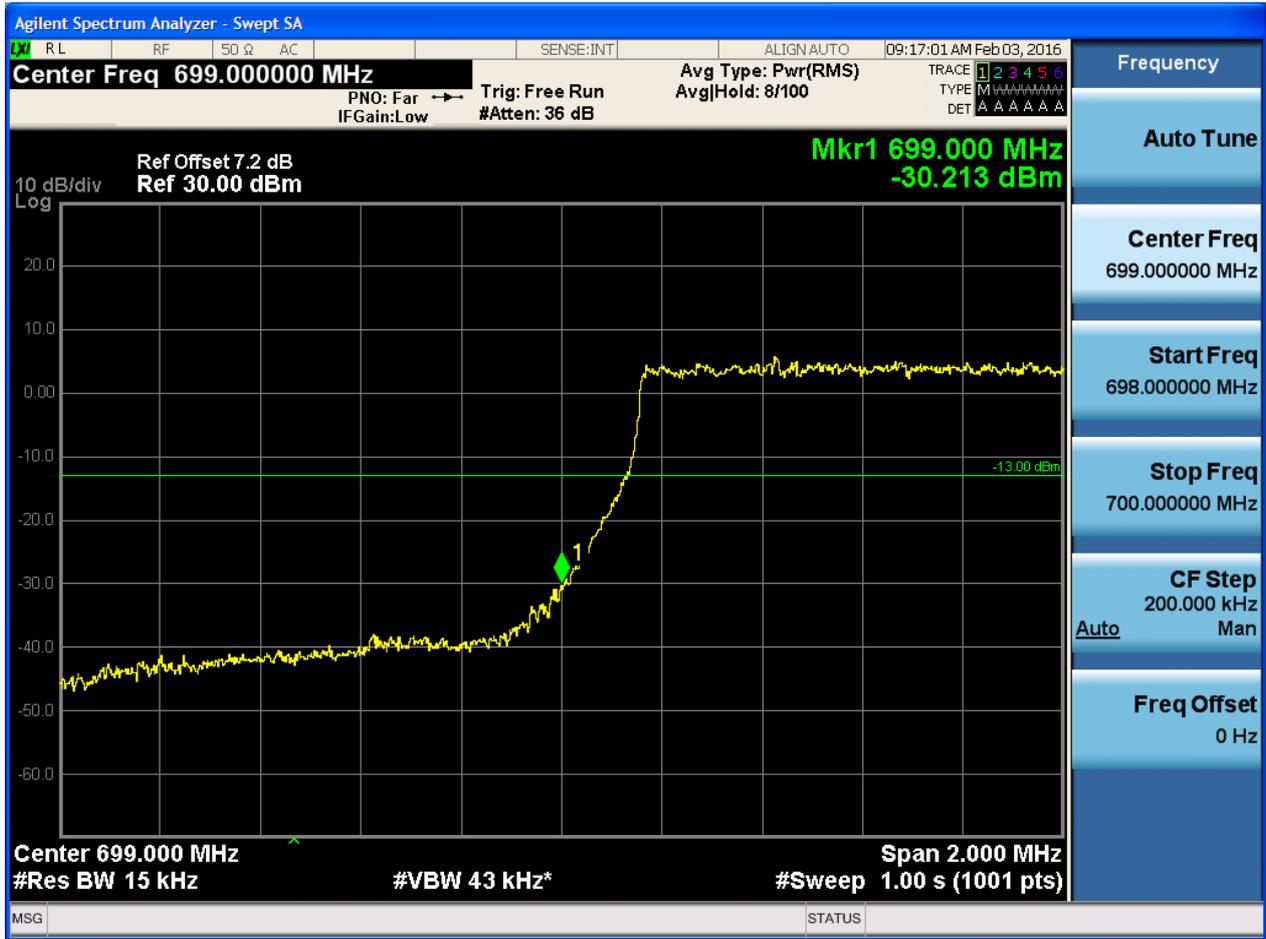
5.1.1.1.1.1.1 Test RB = RB1#0
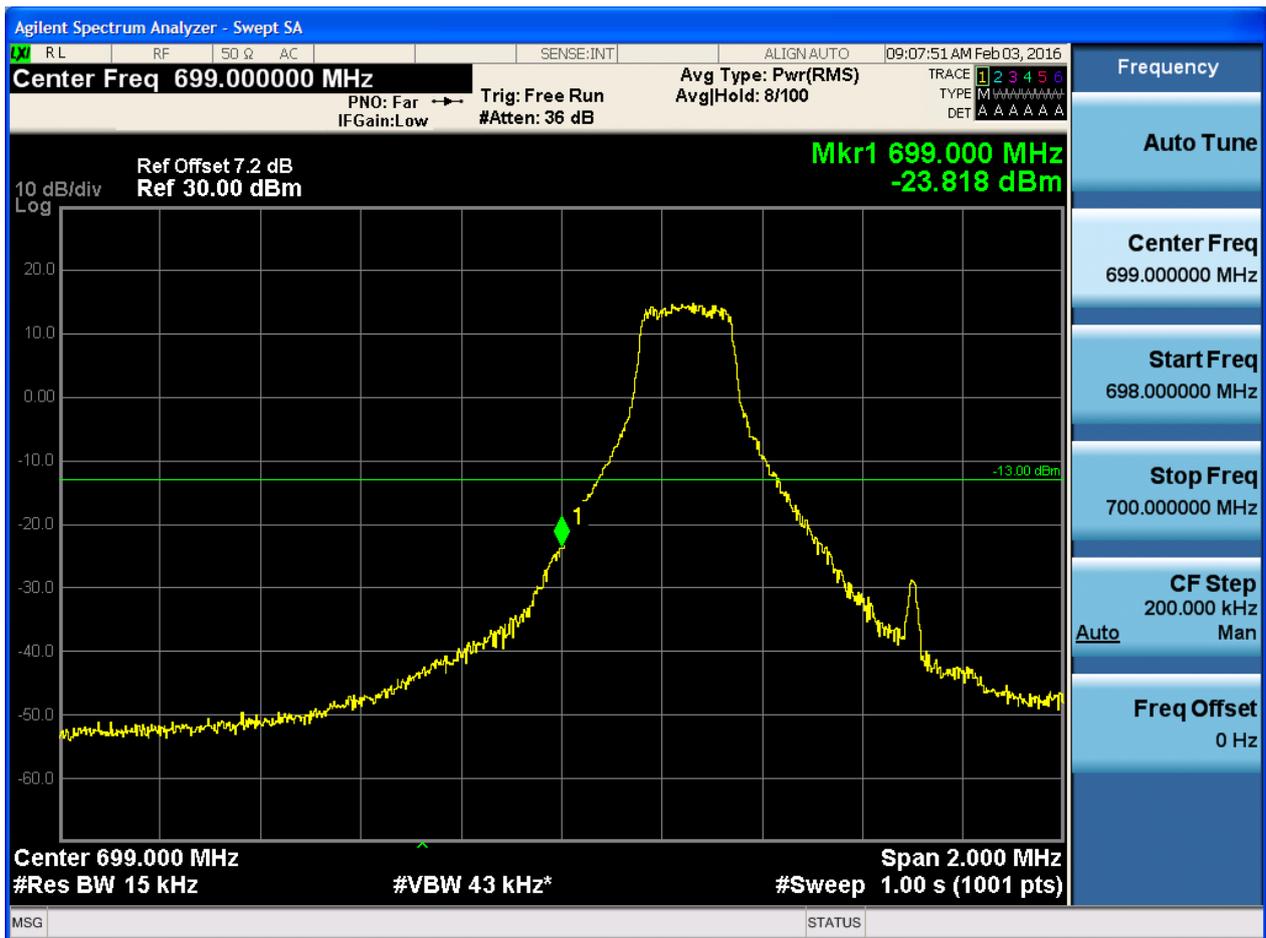
5.1.1.1.1.1.2 Test RB = RB1#5

5.1.1.1.1.3 Test RB = RB3#2

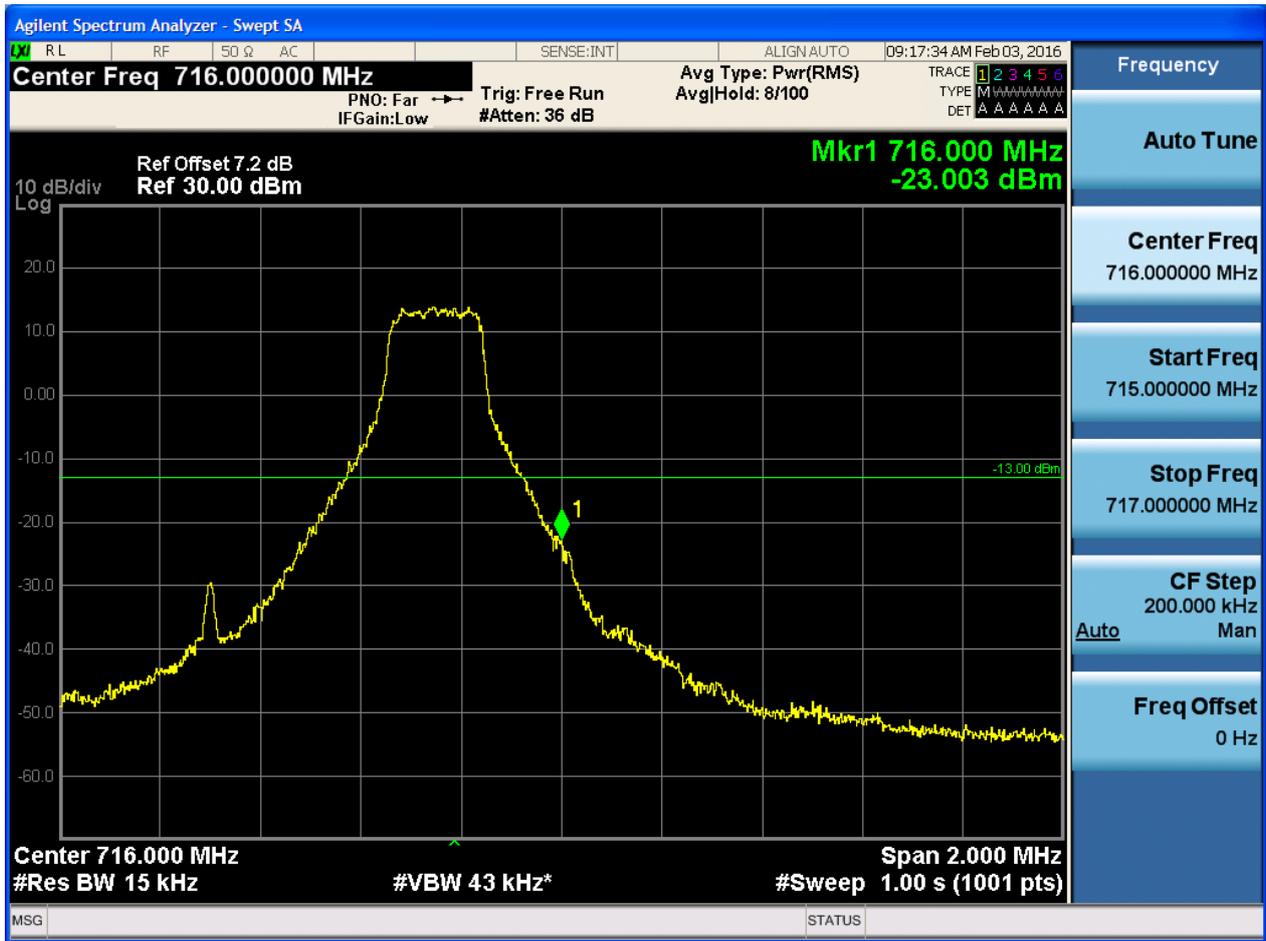## 5.1.1.1.1.1.4 Test RB = RB6#0
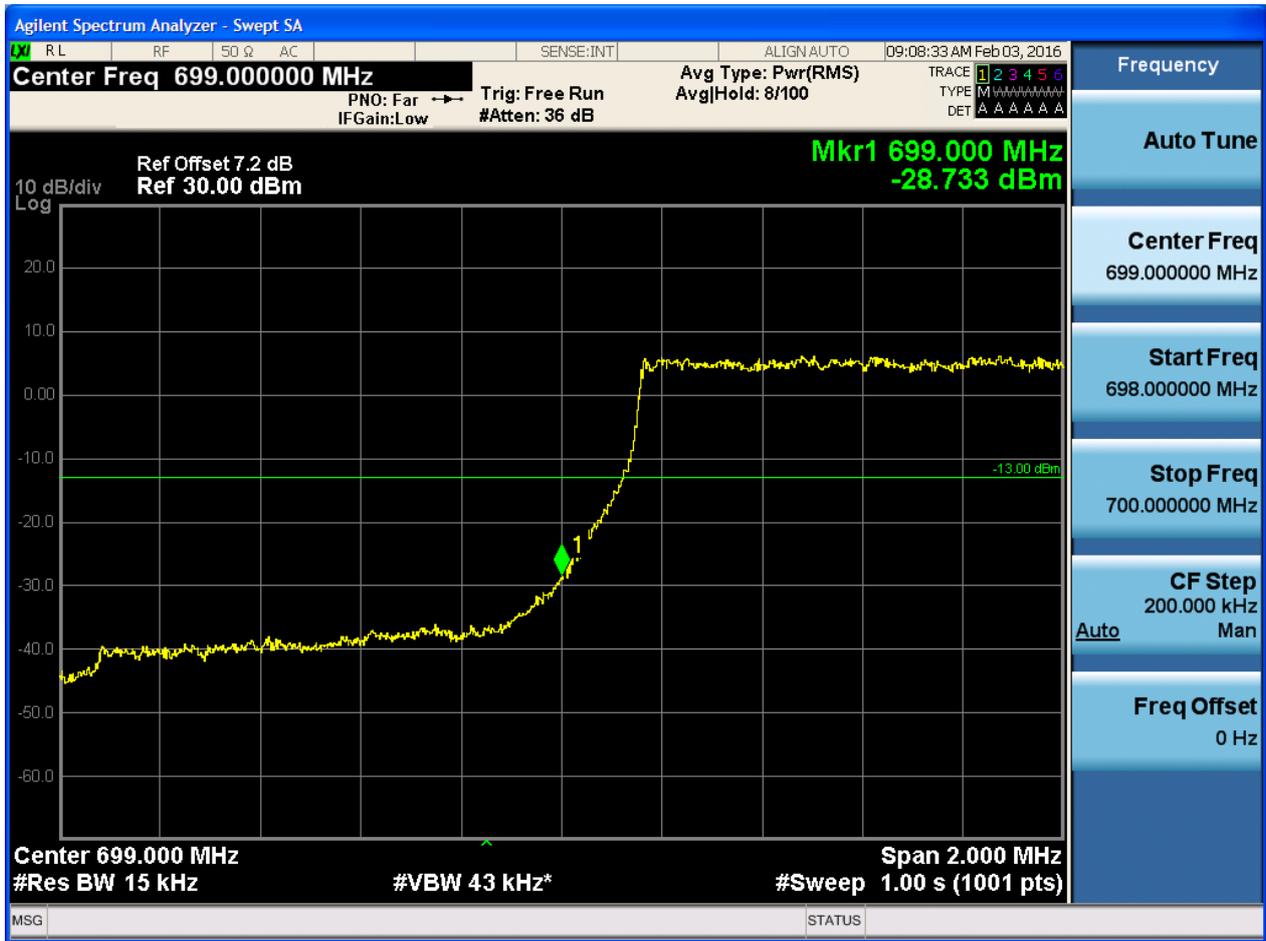
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0
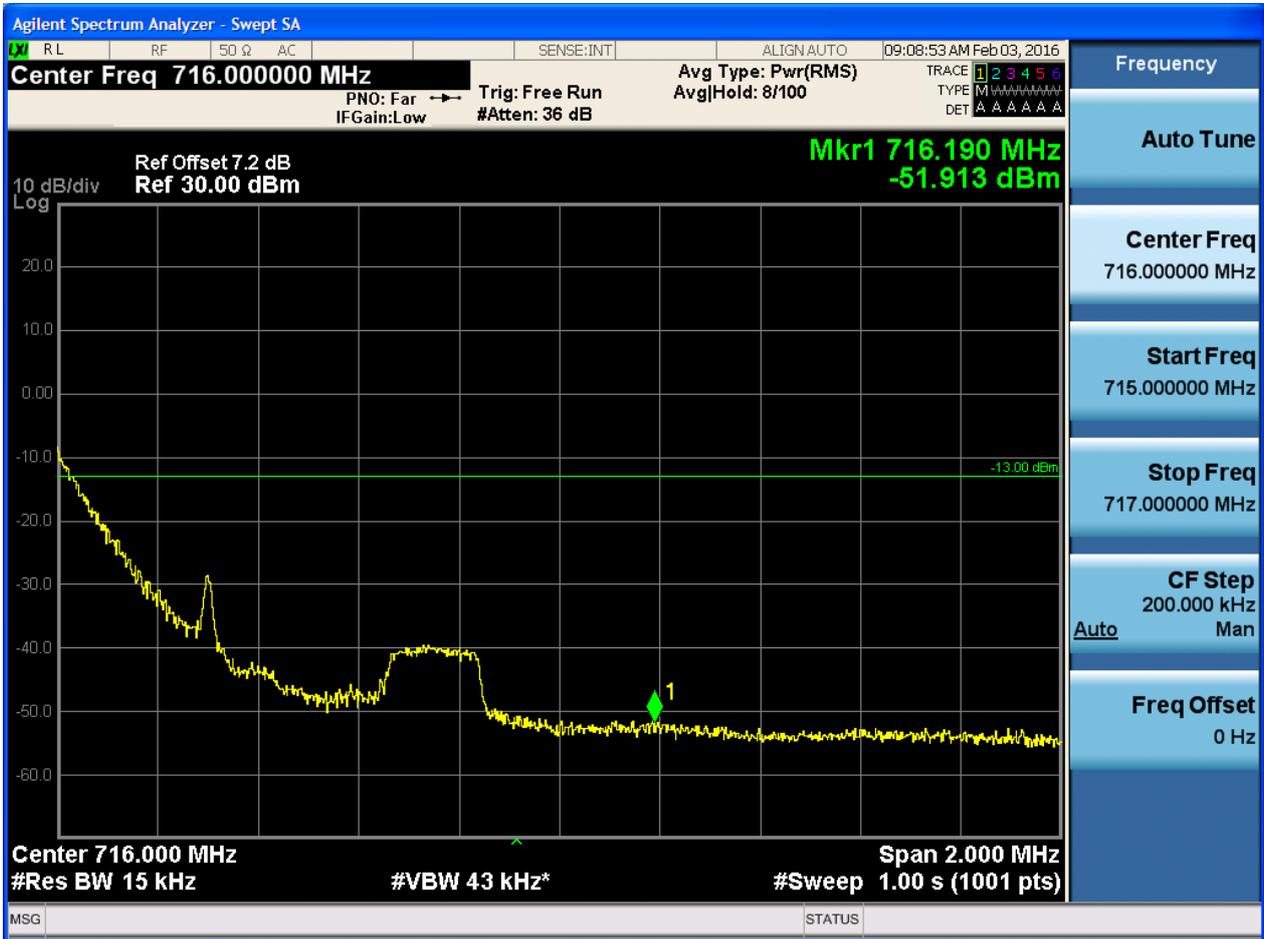
5.1.1.1.1.2.2 Test RB = RB1#5
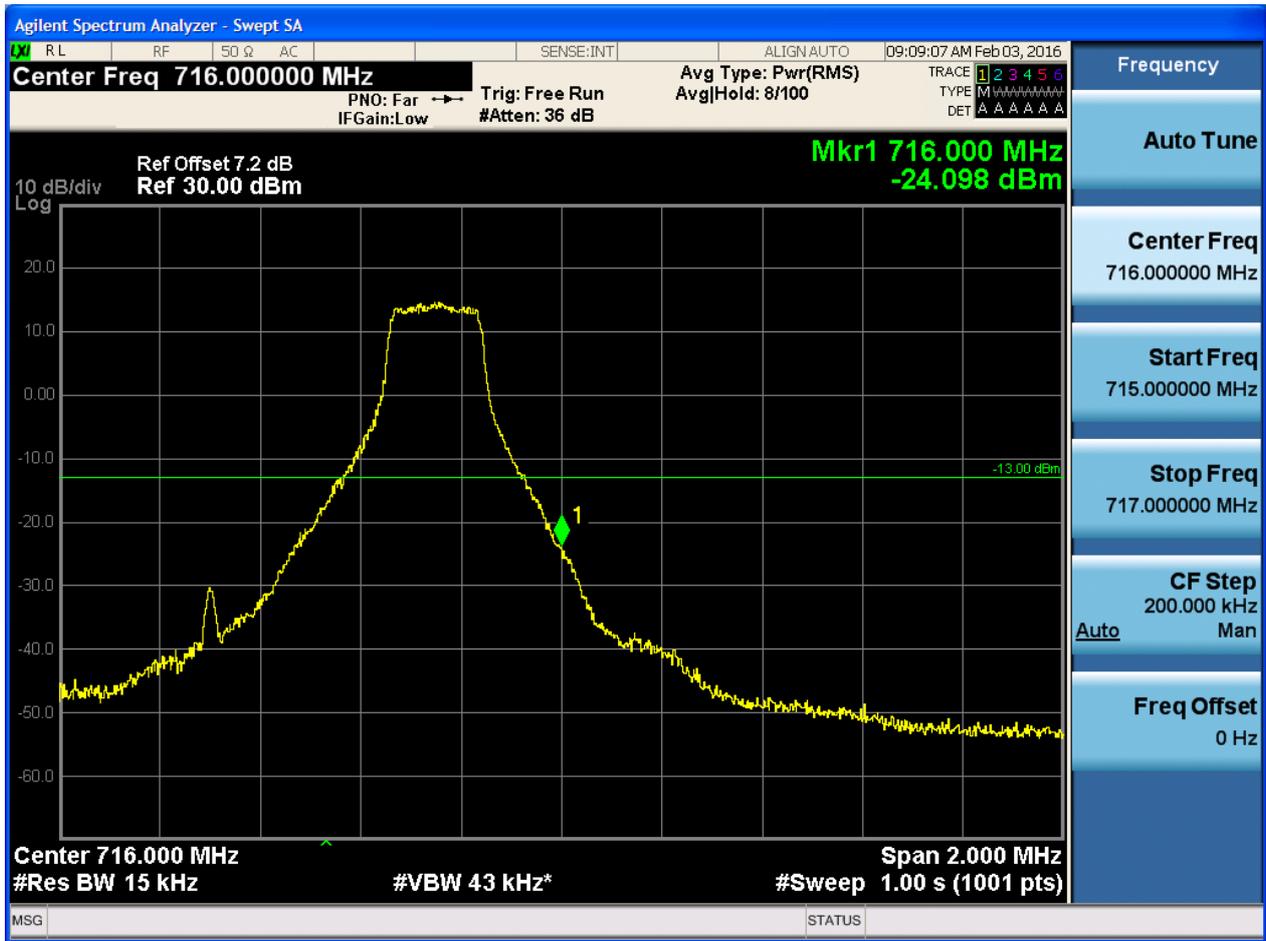
5.1.1.1.1.2.3 Test RB = RB3#2

## 5.1.1.1.1.2.4 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
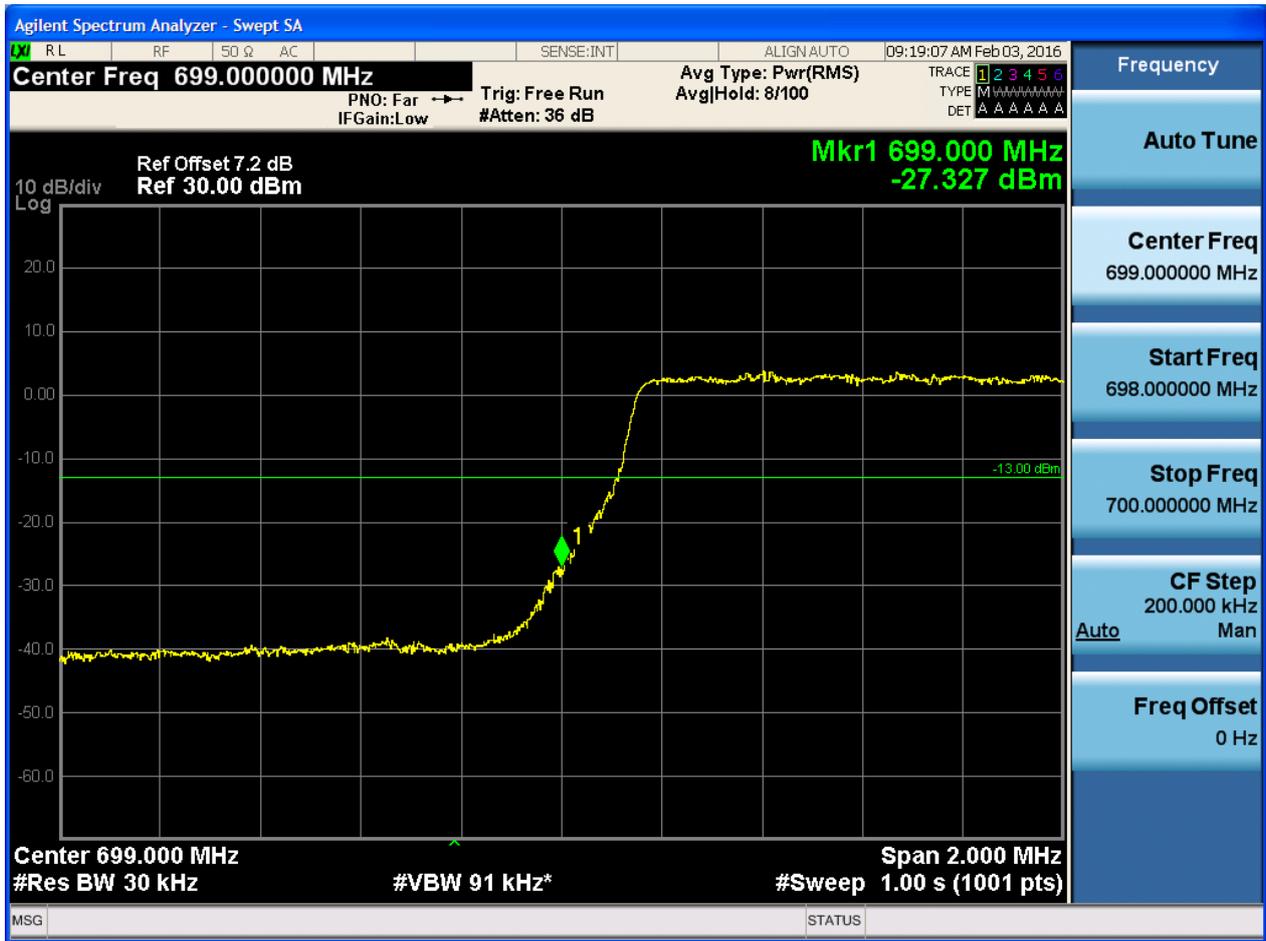
5.1.1.1.2.1.2 Test RB = RB1#14
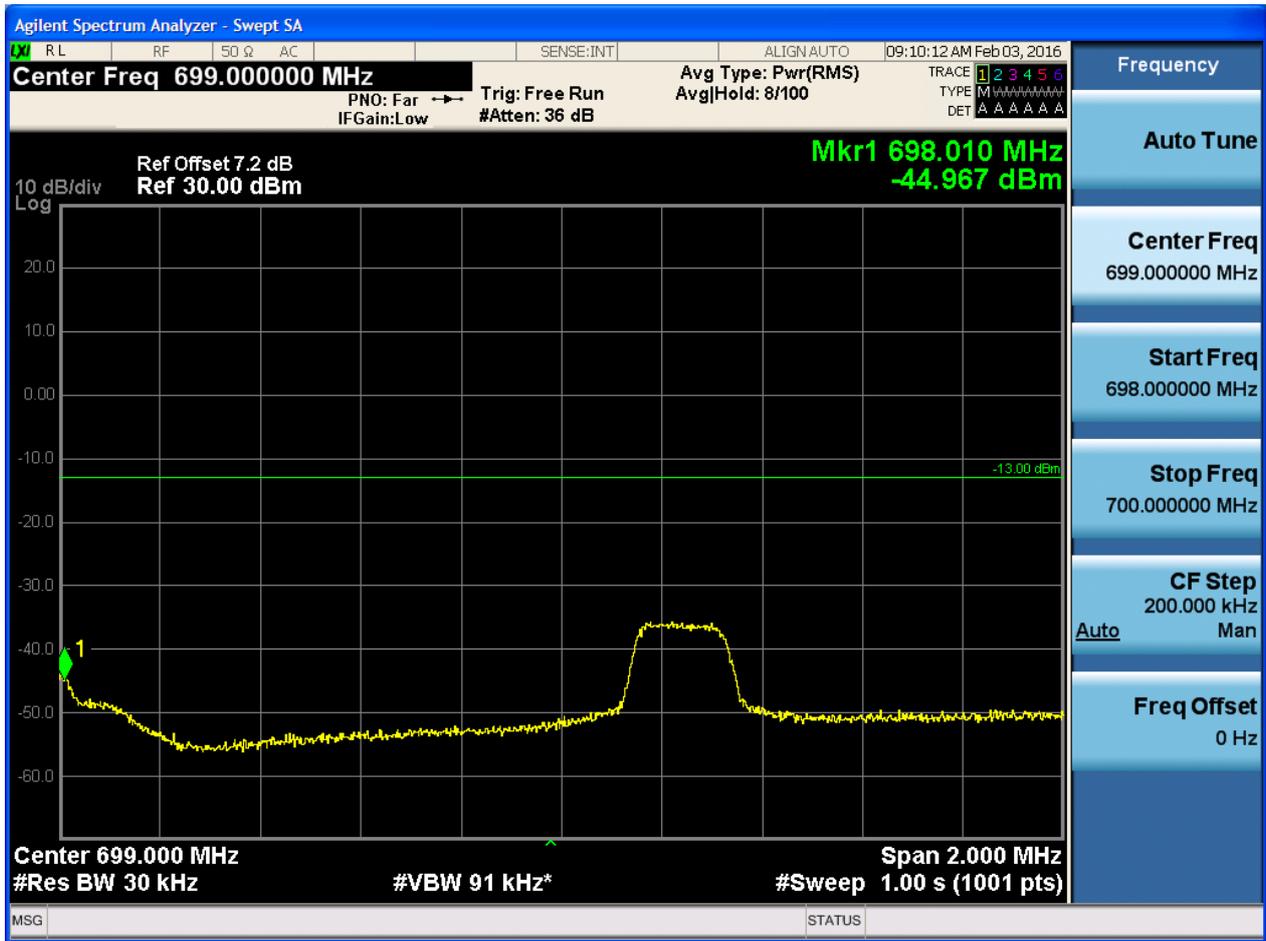
5.1.1.1.2.1.3 Test RB = RB8#4
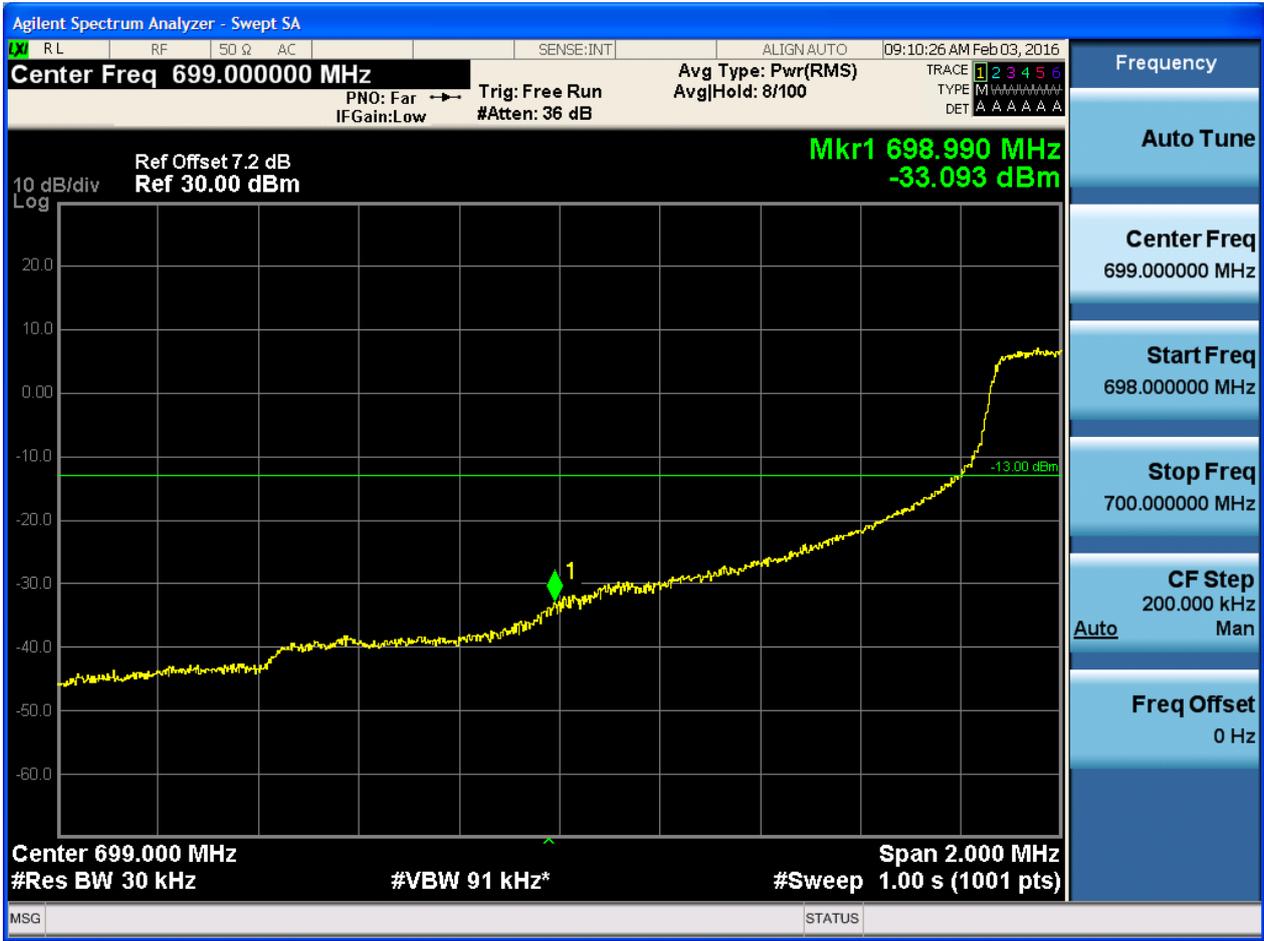
5.1.1.1.2.1.4 Test RB = RB15#0
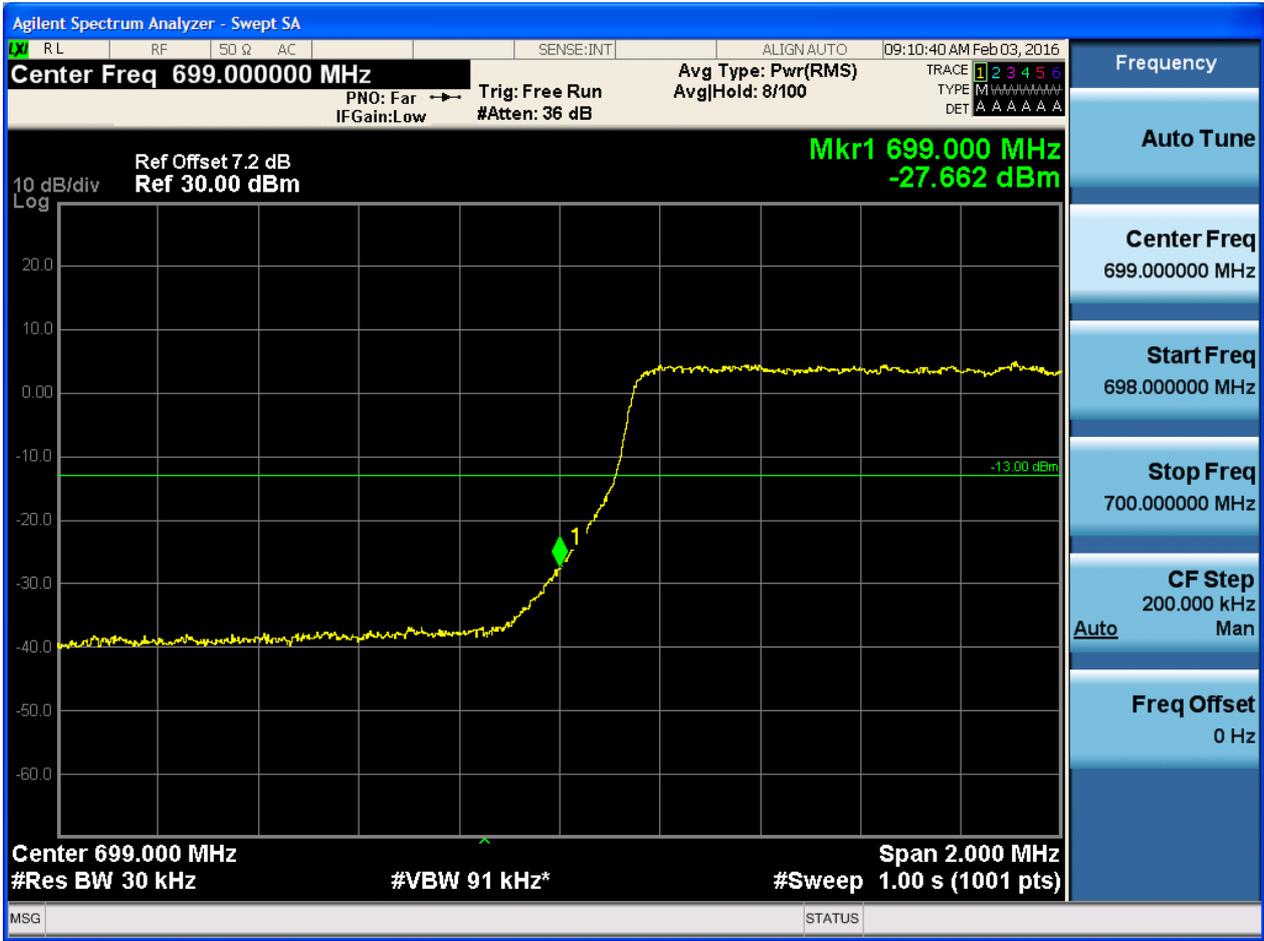
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0
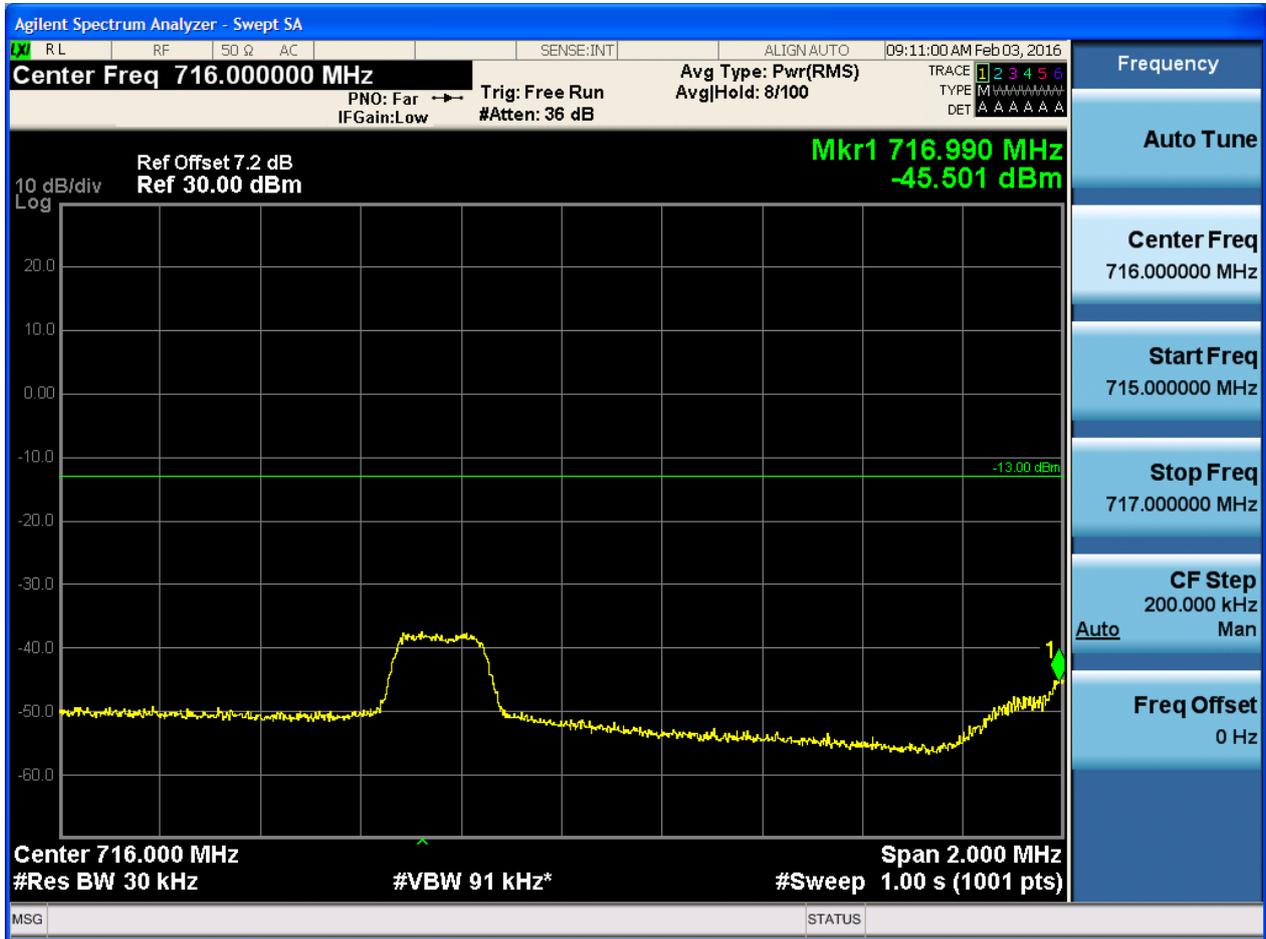
5.1.1.1.2.2.2 Test RB = RB1#14
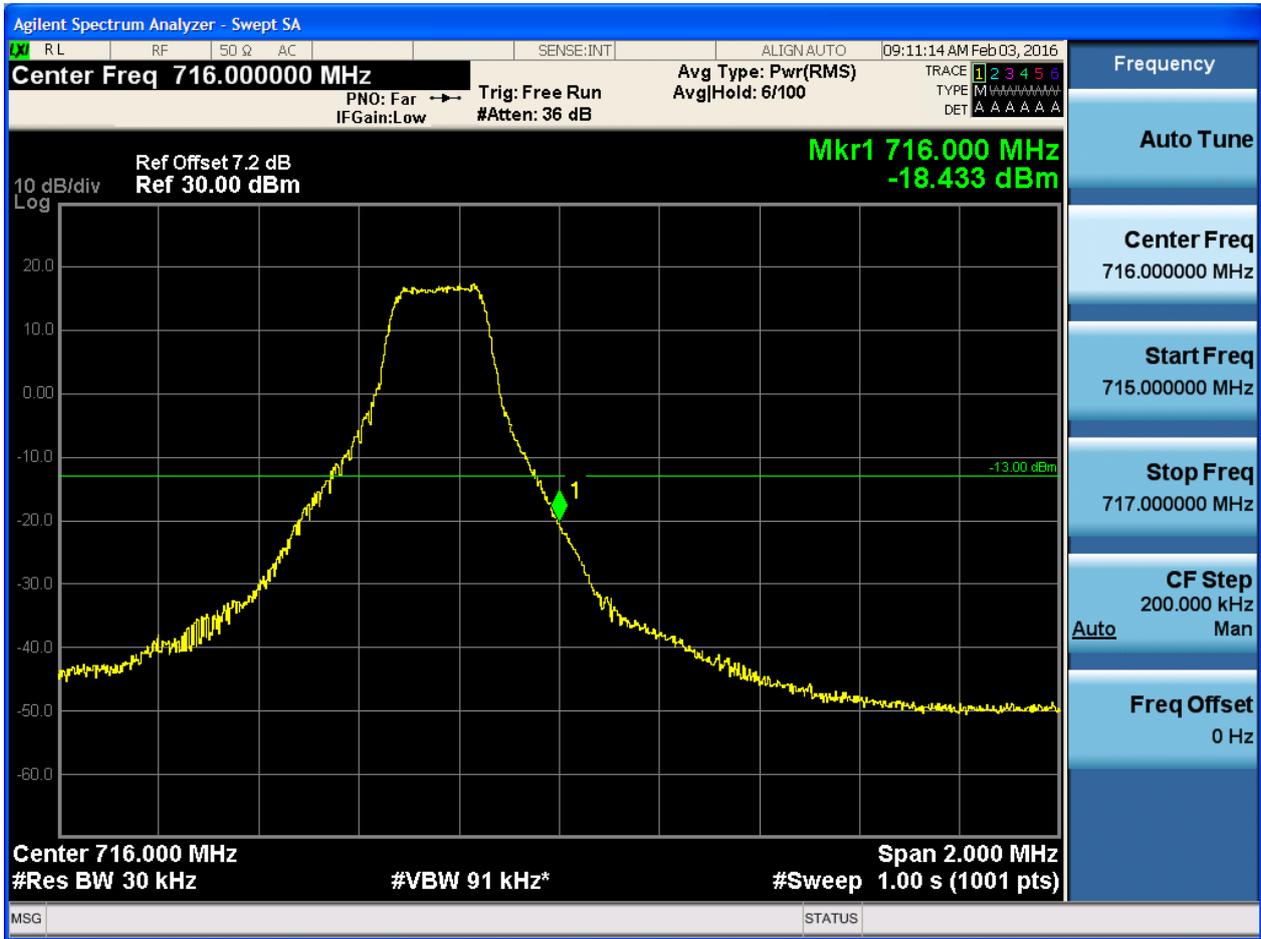
5.1.1.1.2.2.3 Test RB = RB8#4

5.1.1.1.2.2.4 Test RB = RB15#0

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
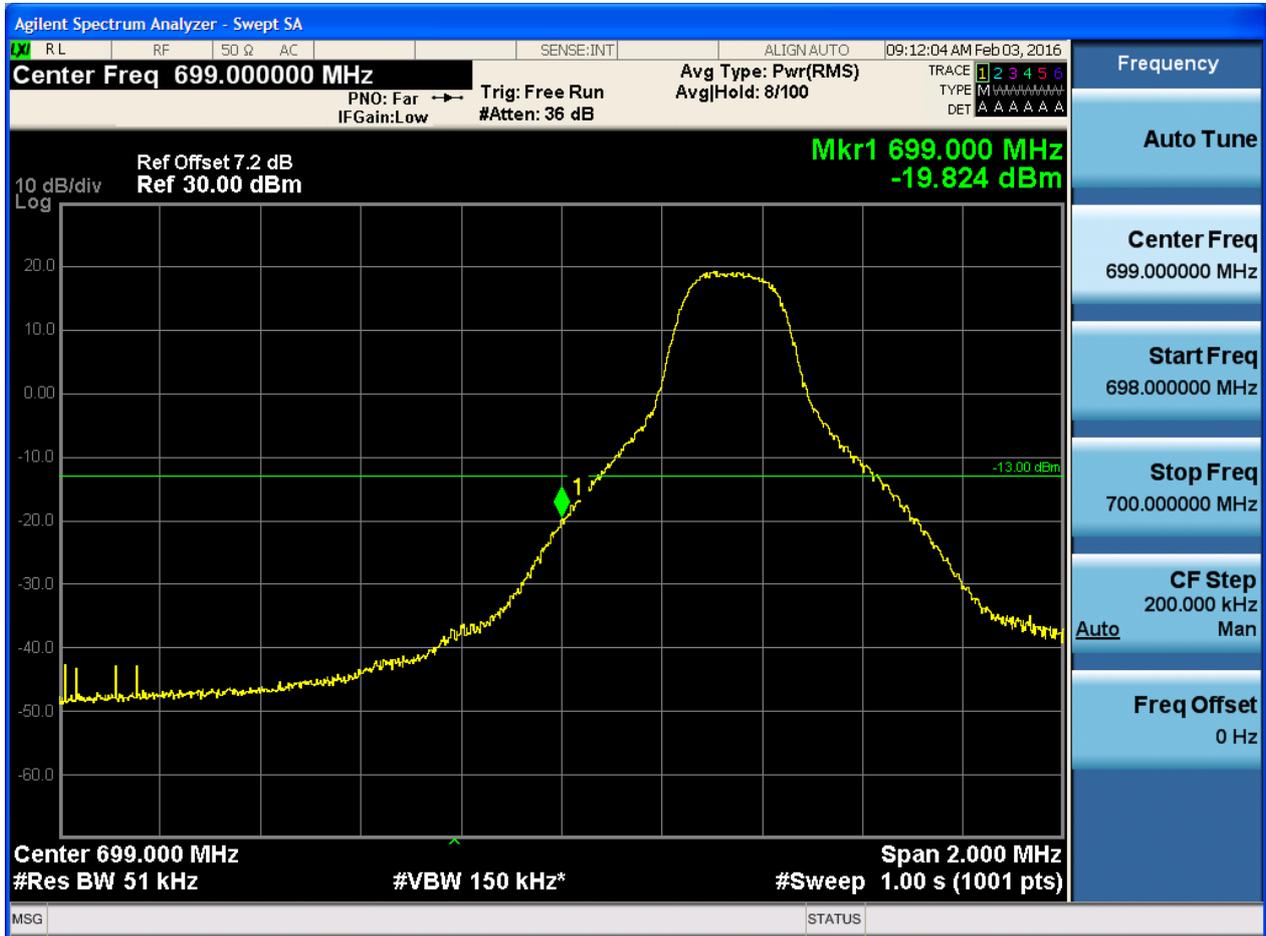
5.1.1.1.3.1.2 Test RB = RB1#24
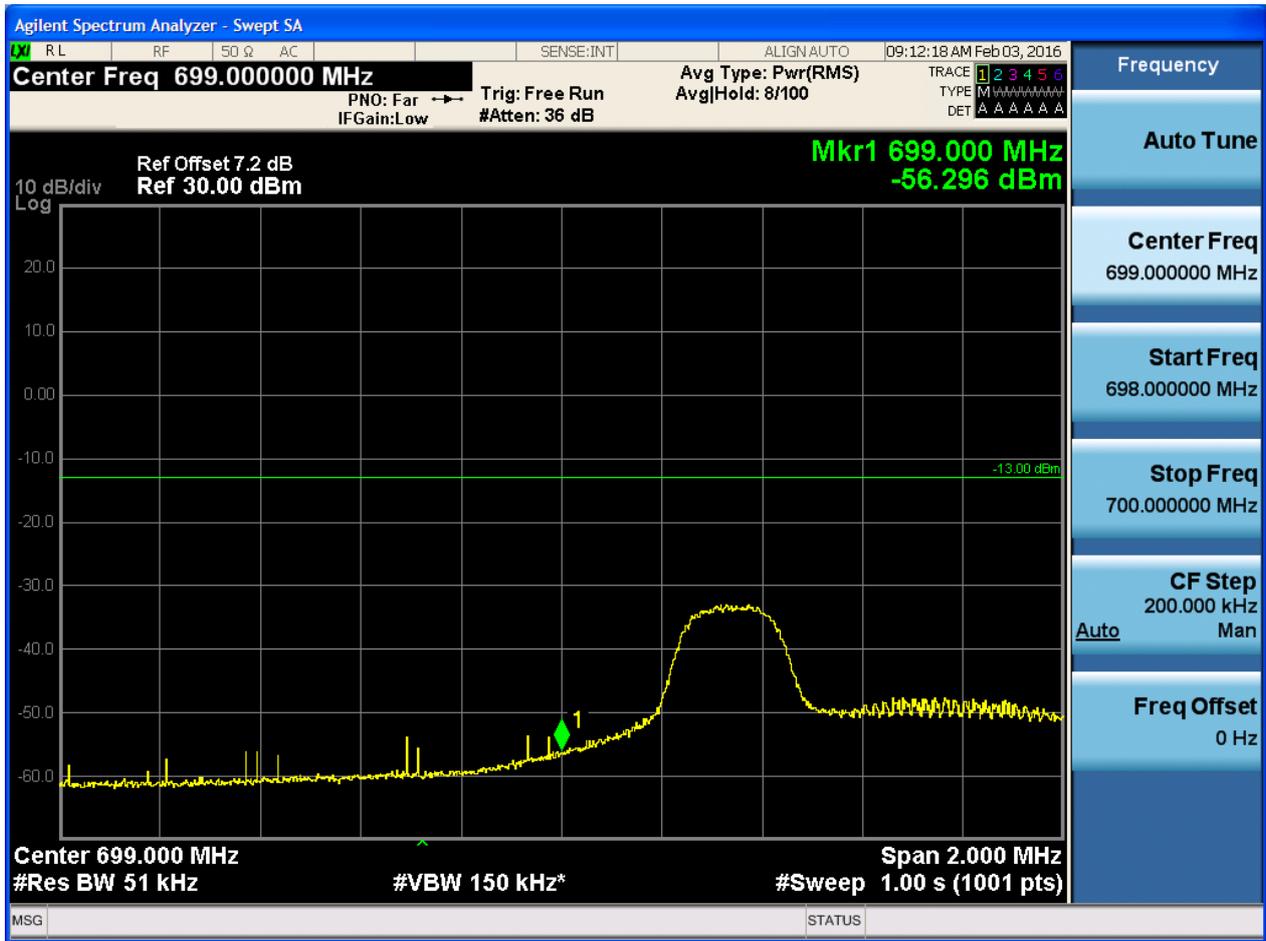
5.1.1.1.3.1.3 Test RB = RB12#6

5.1.1.1.3.1.4 Test RB = RB25#0
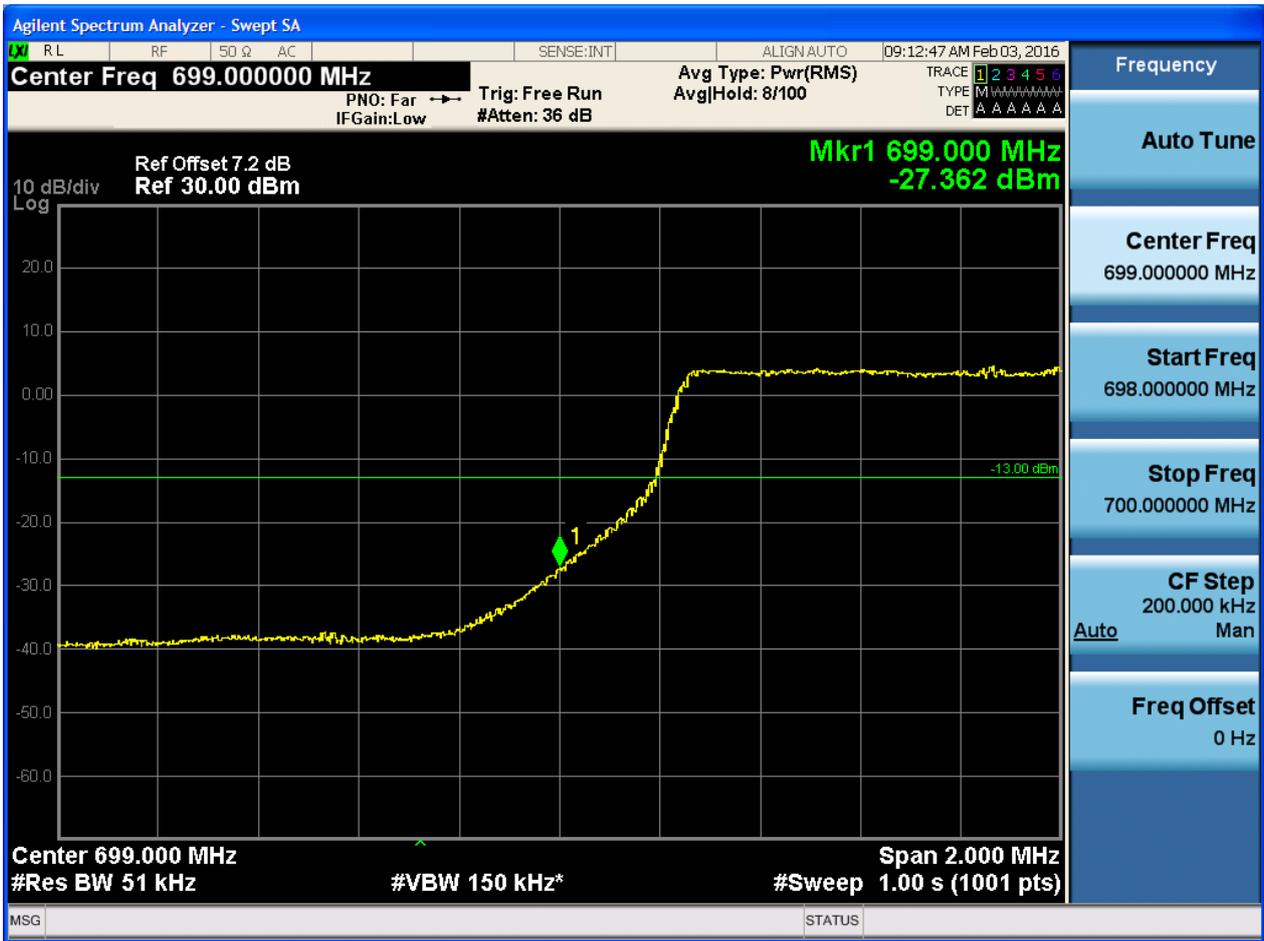
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0
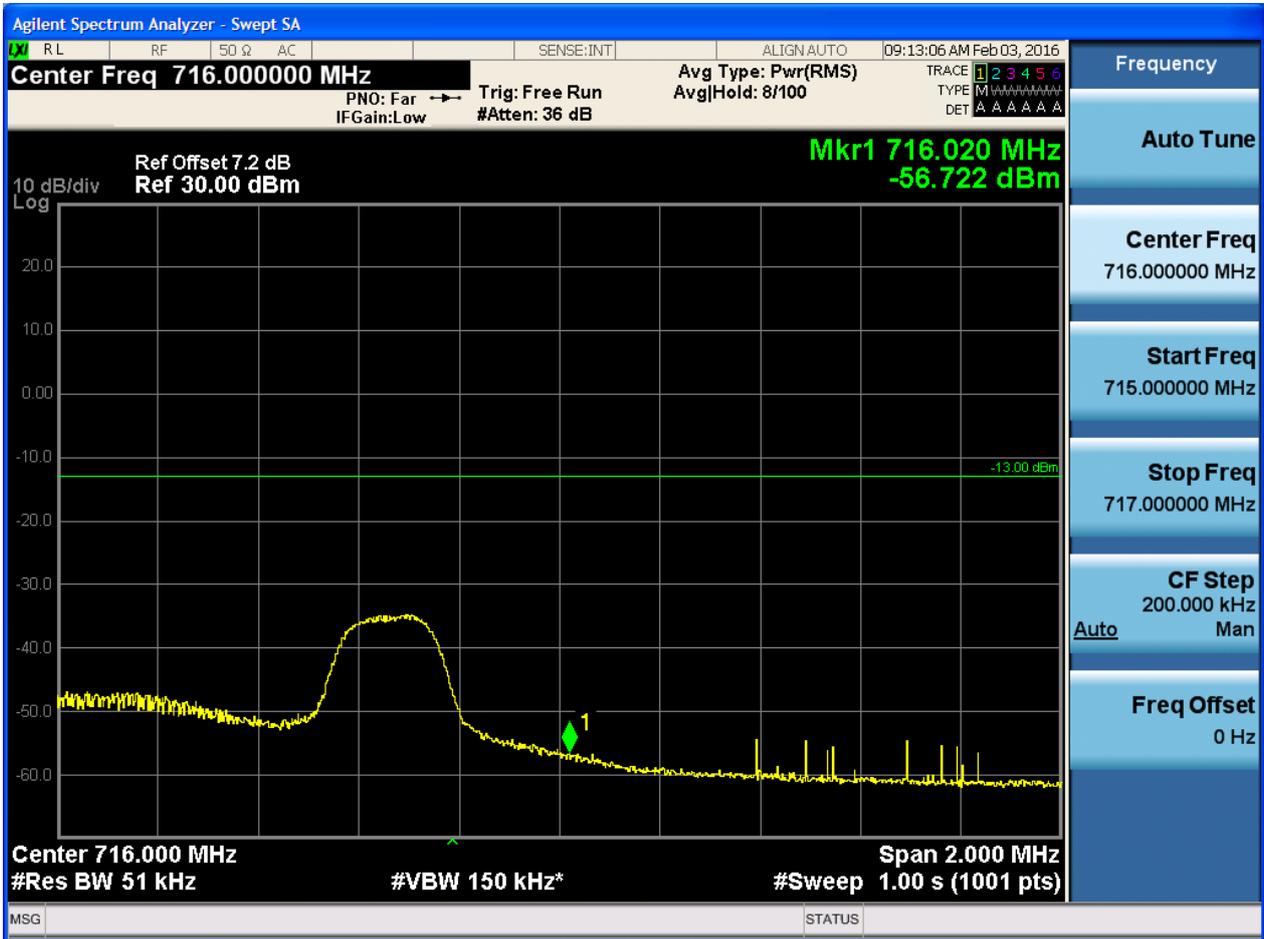
5.1.1.1.3.2.2 Test RB = RB1#24

5.1.1.1.3.2.3 Test RB = RB12#6

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5.1.1.1.3.2.4 Test RB = RB25#0

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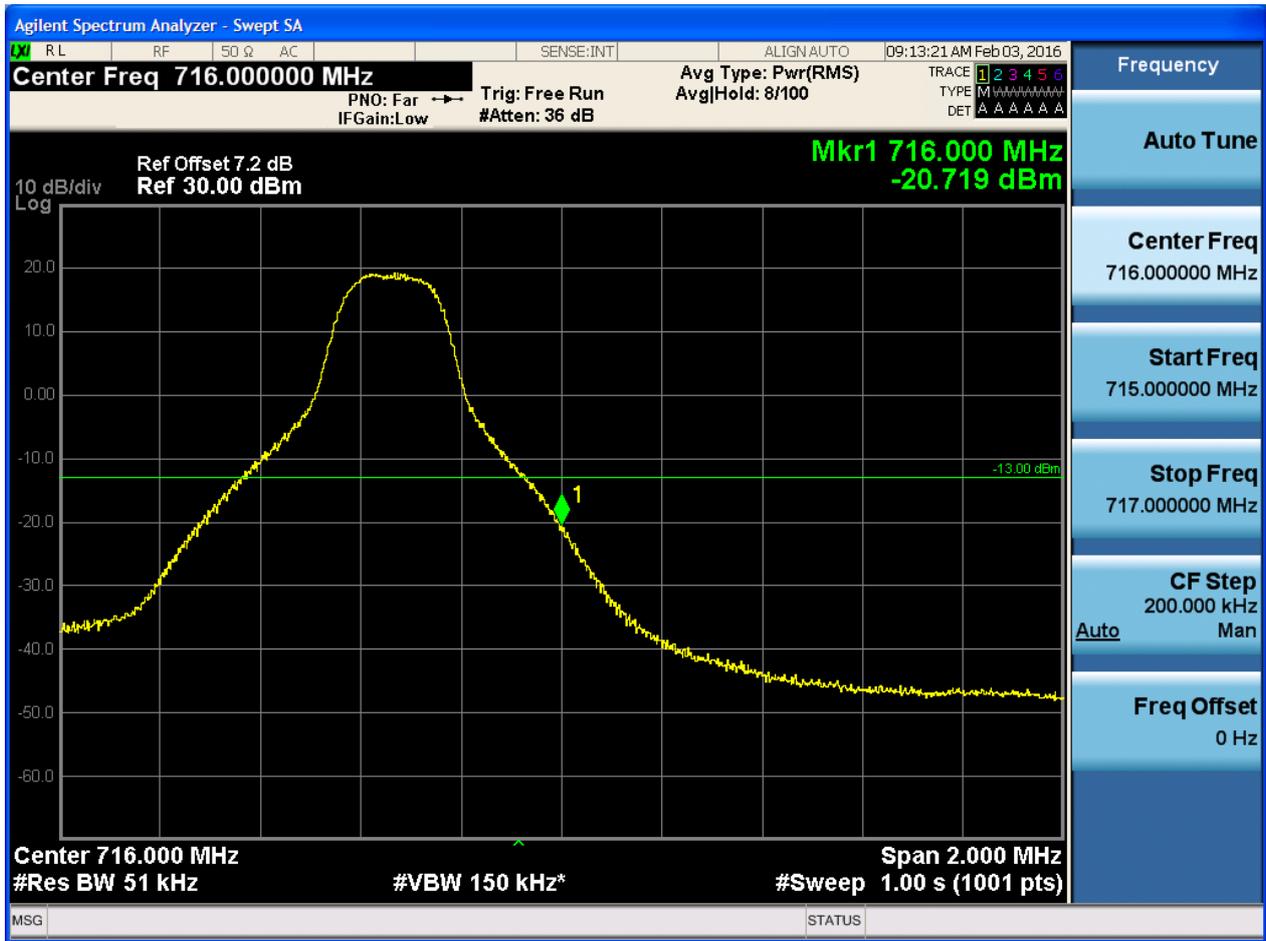
5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0
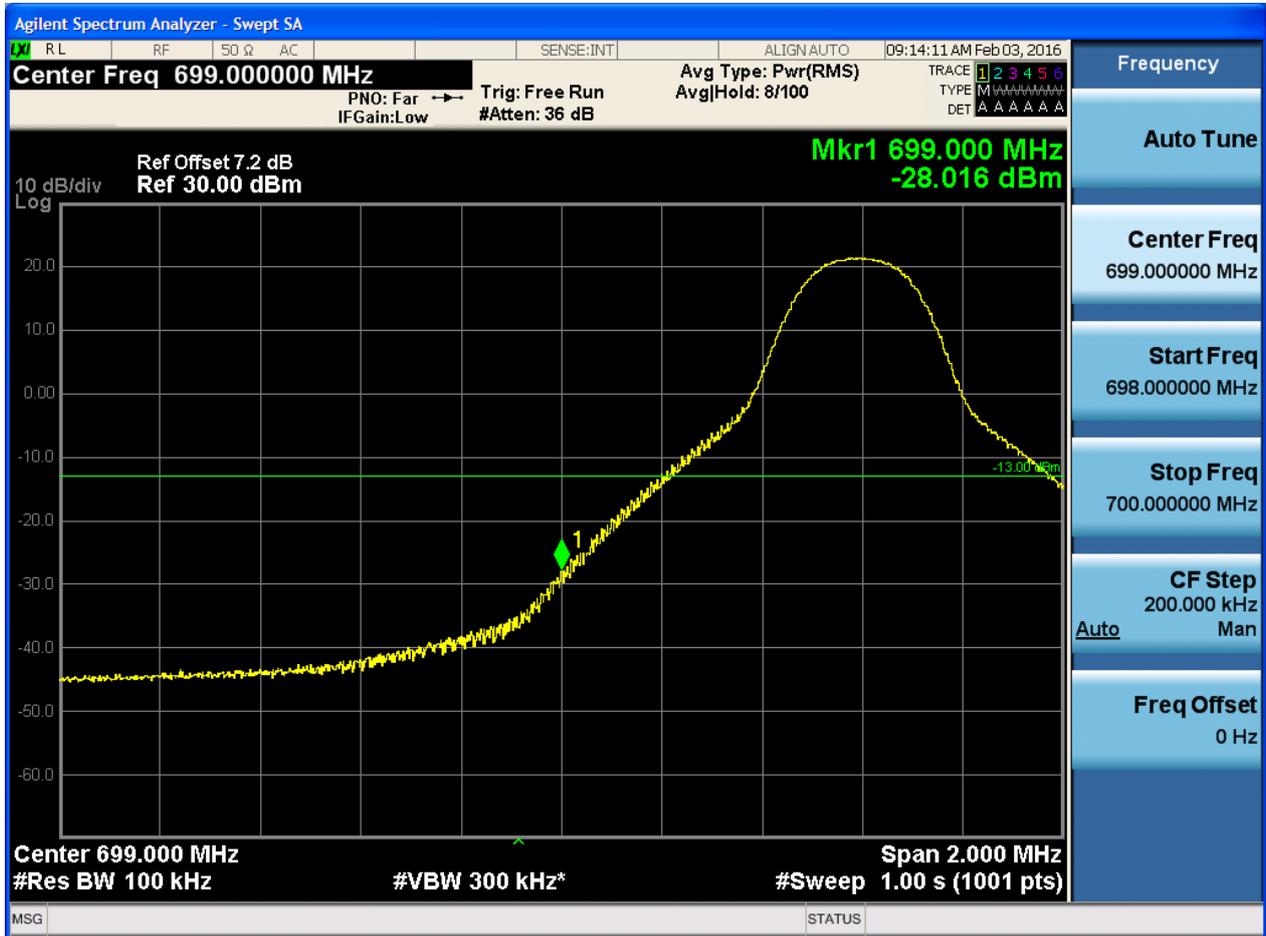
5.1.1.1.4.1.2 Test RB = RB1#49
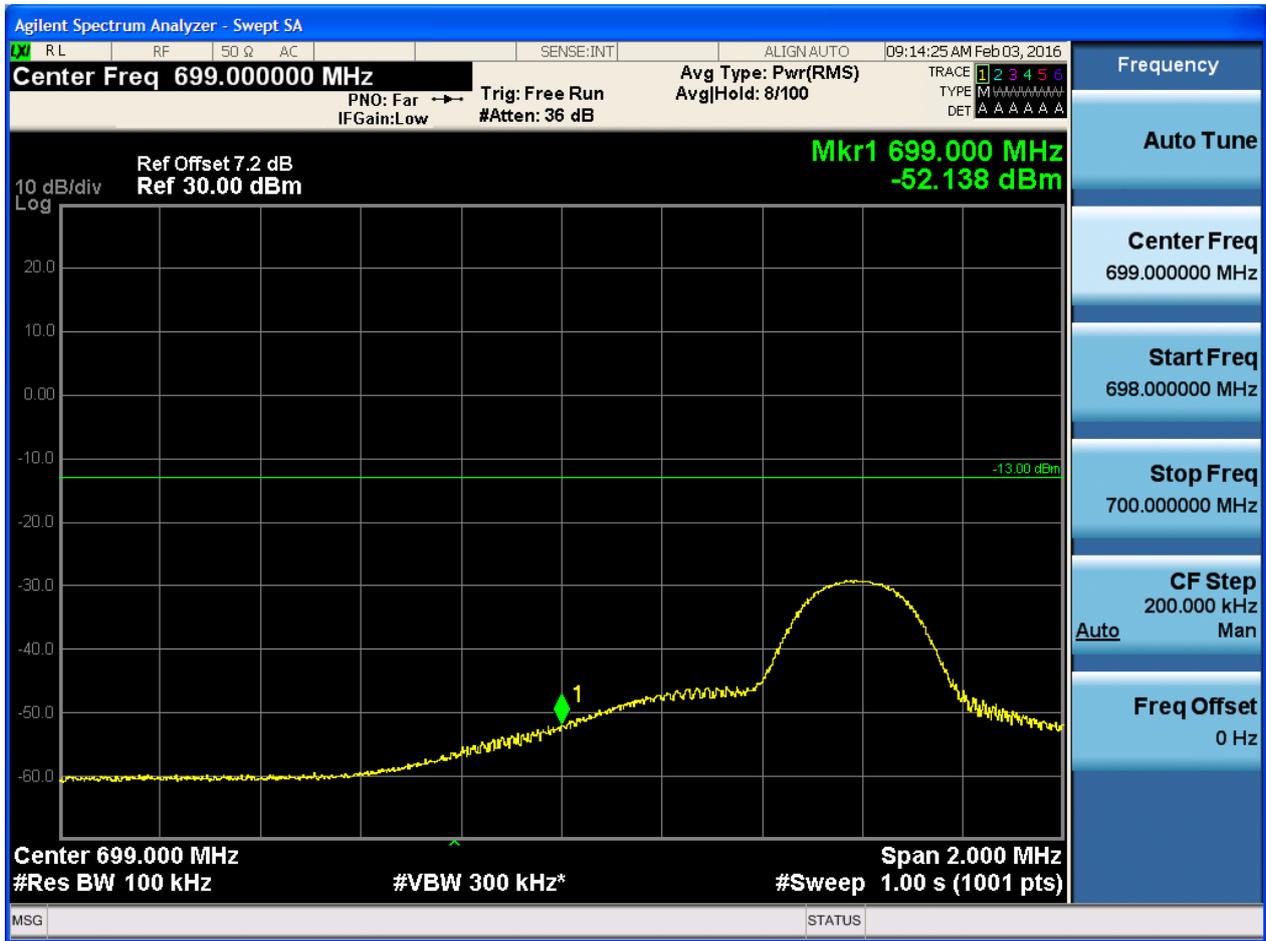
5.1.1.1.4.1.3 Test RB = RB25#13
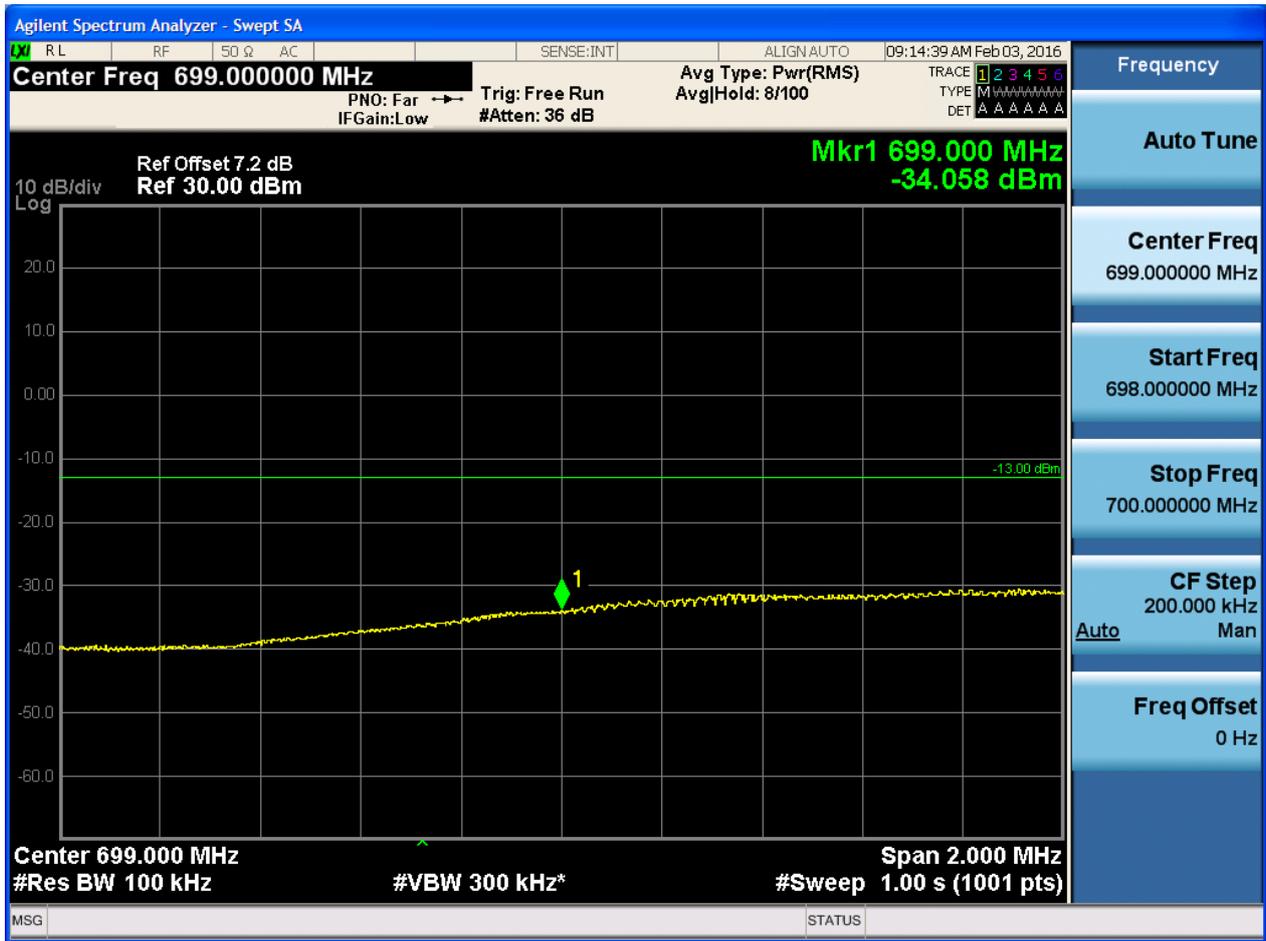
5.1.1.1.4.1.4 Test RB = RB50#0

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0
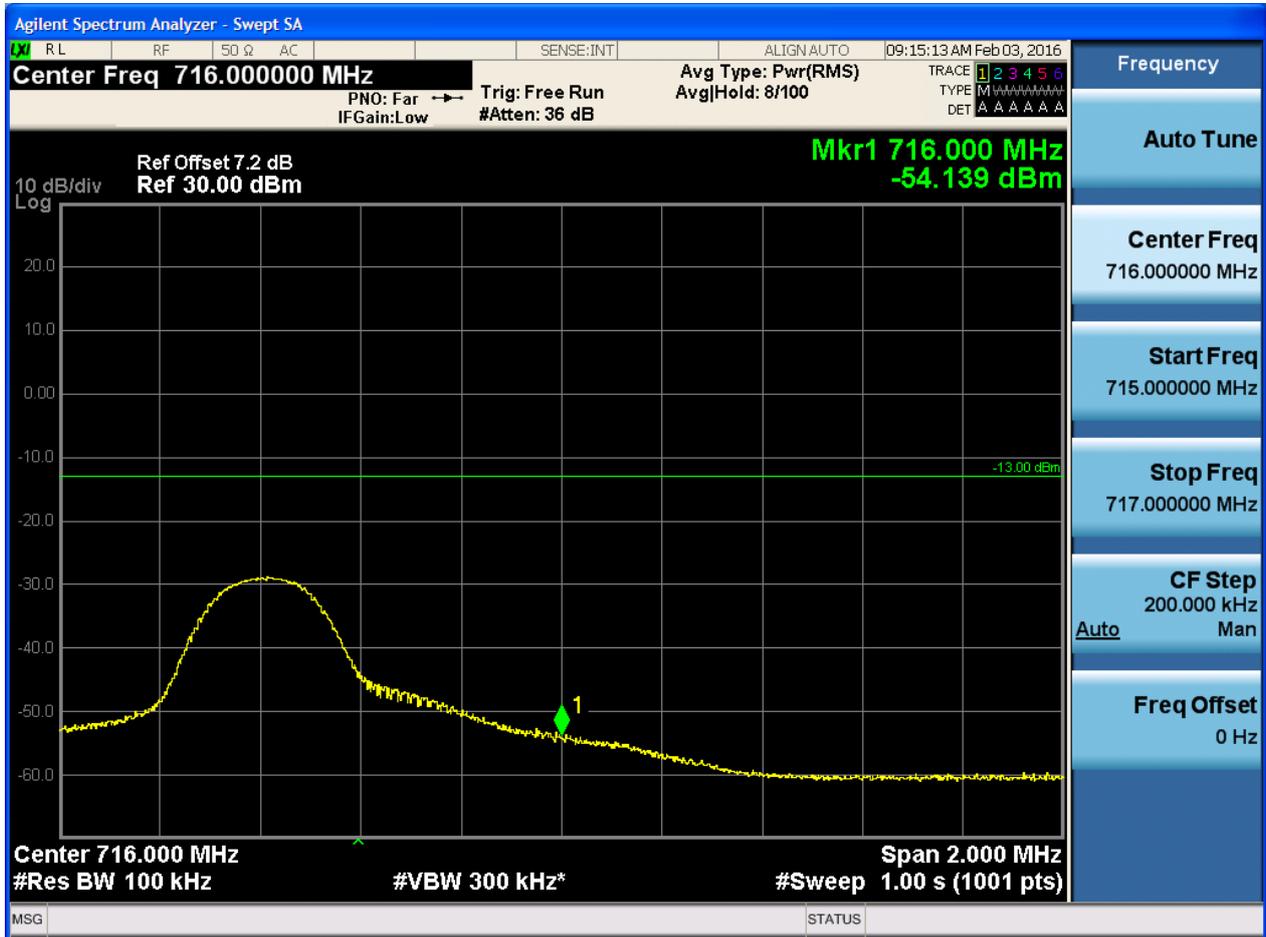
5.1.1.1.4.2.2 Test RB = RB1#49

5.1.1.1.4.2.3 Test RB = RB25#13

5.1.1.1.4.2.4 Test RB = RB50#0
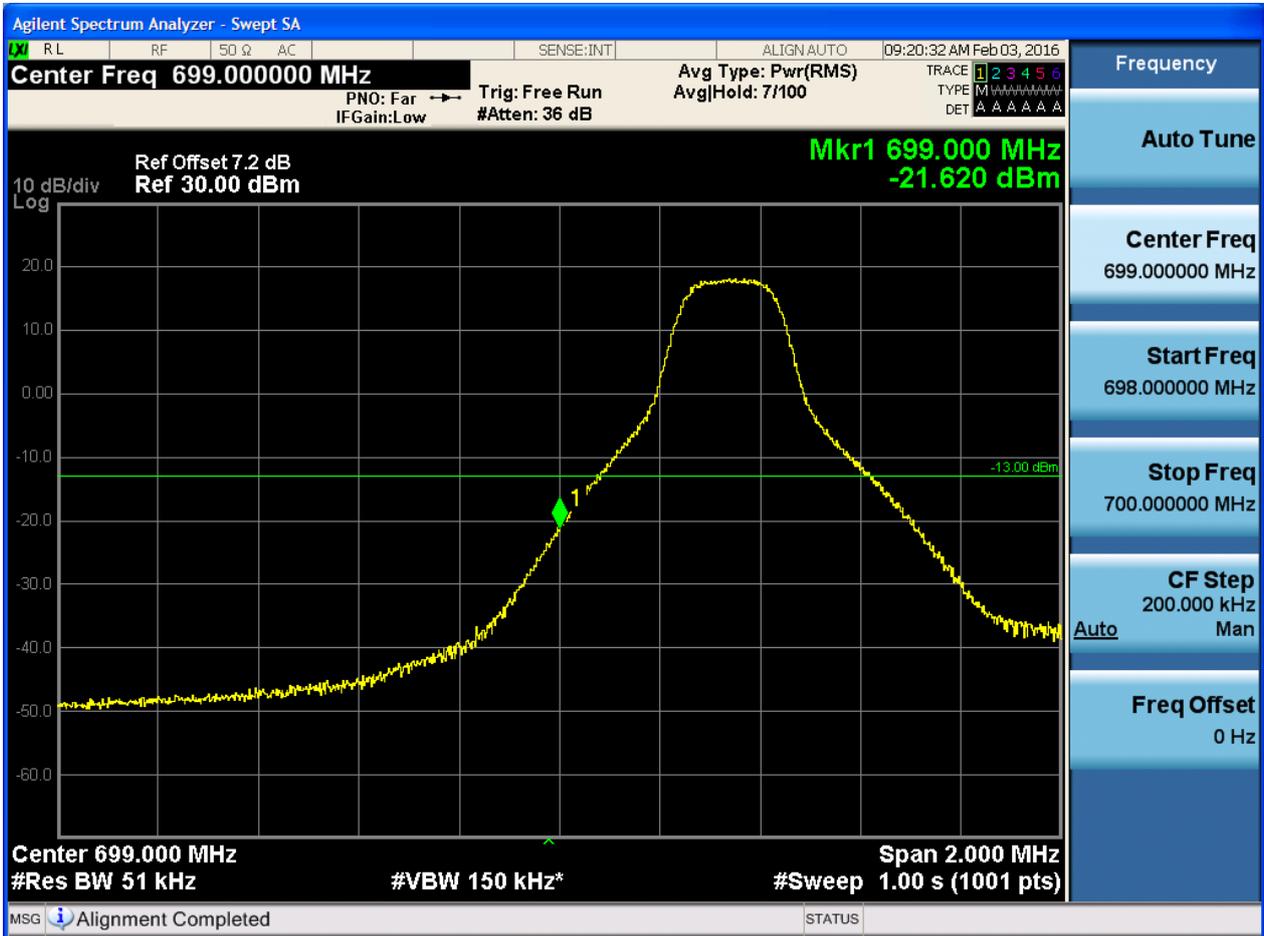
5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4
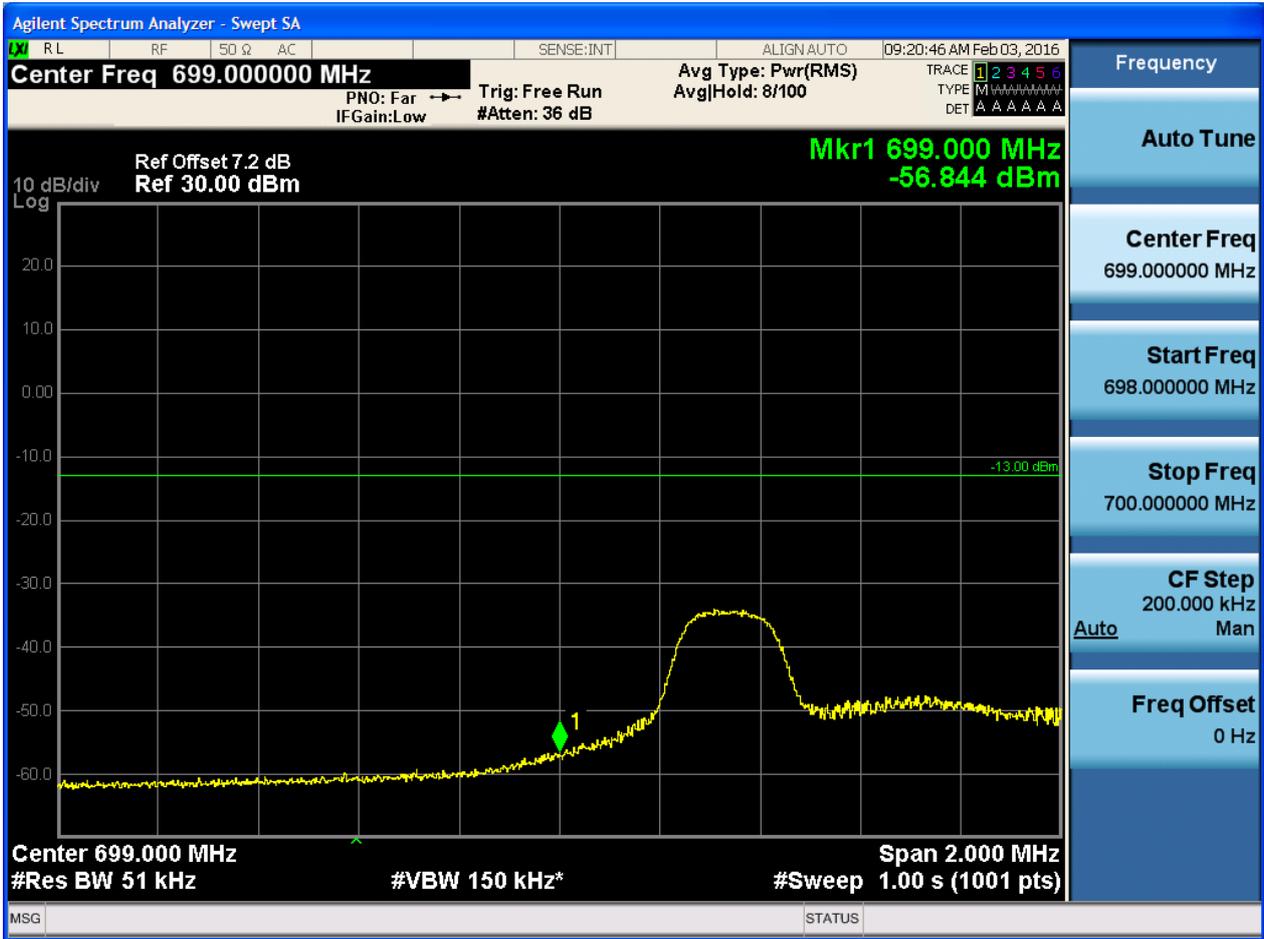
5.1.1.2.1.1 Test Channel = LCH

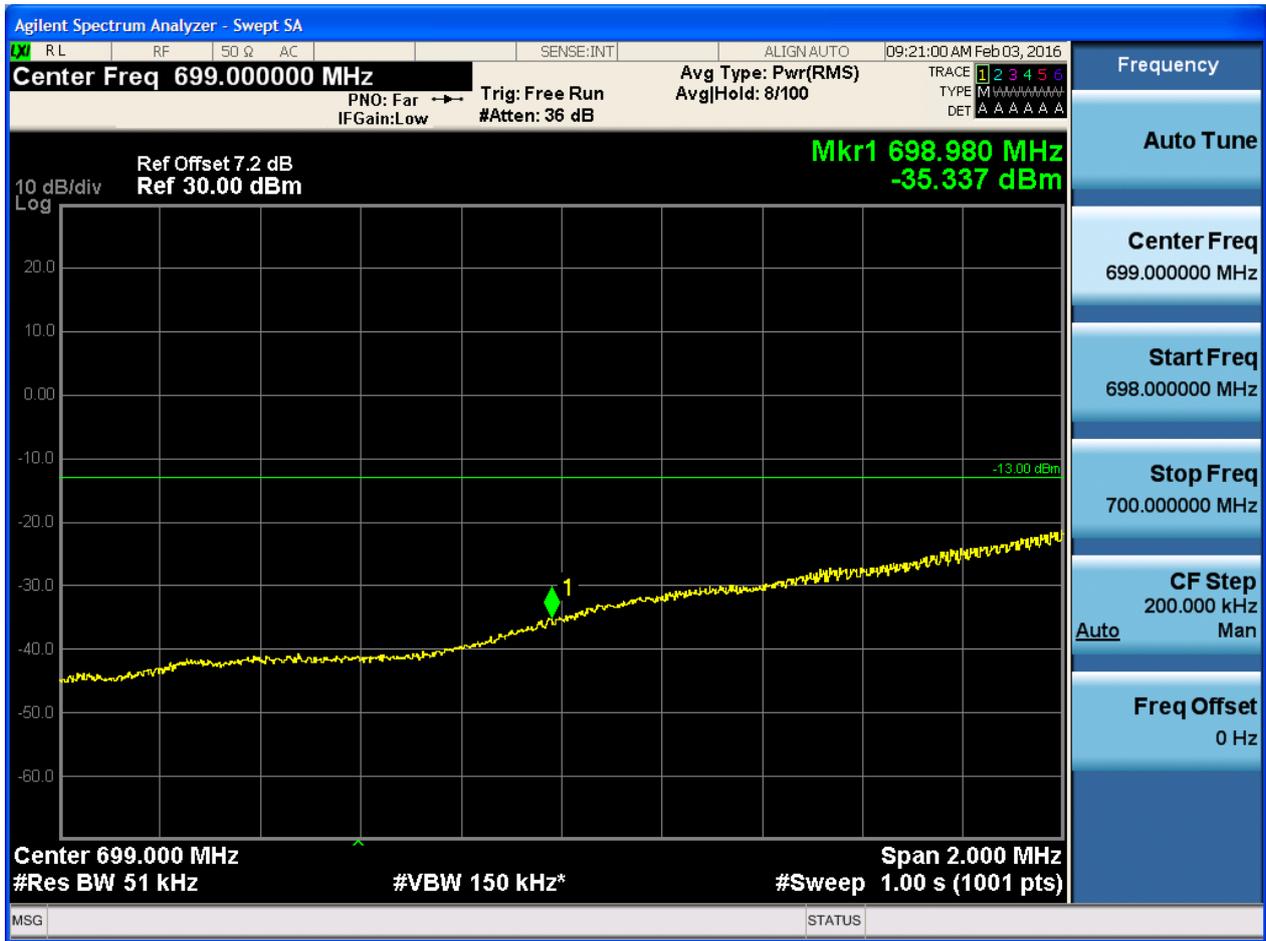### 5.1.1.2.1.1.1 Test RB = RB1#0
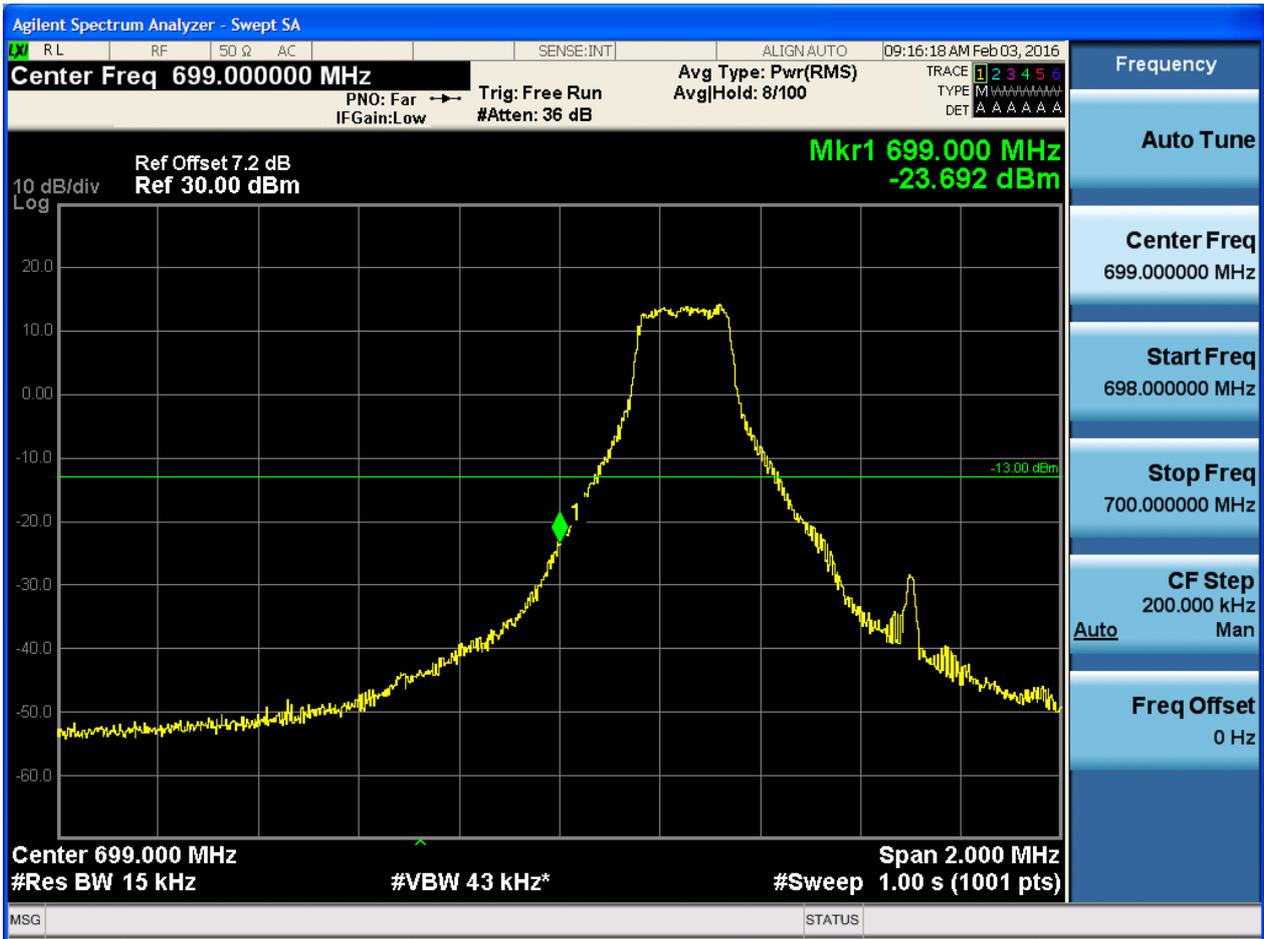
5.1.1.2.1.1.2 Test RB = RB1#5
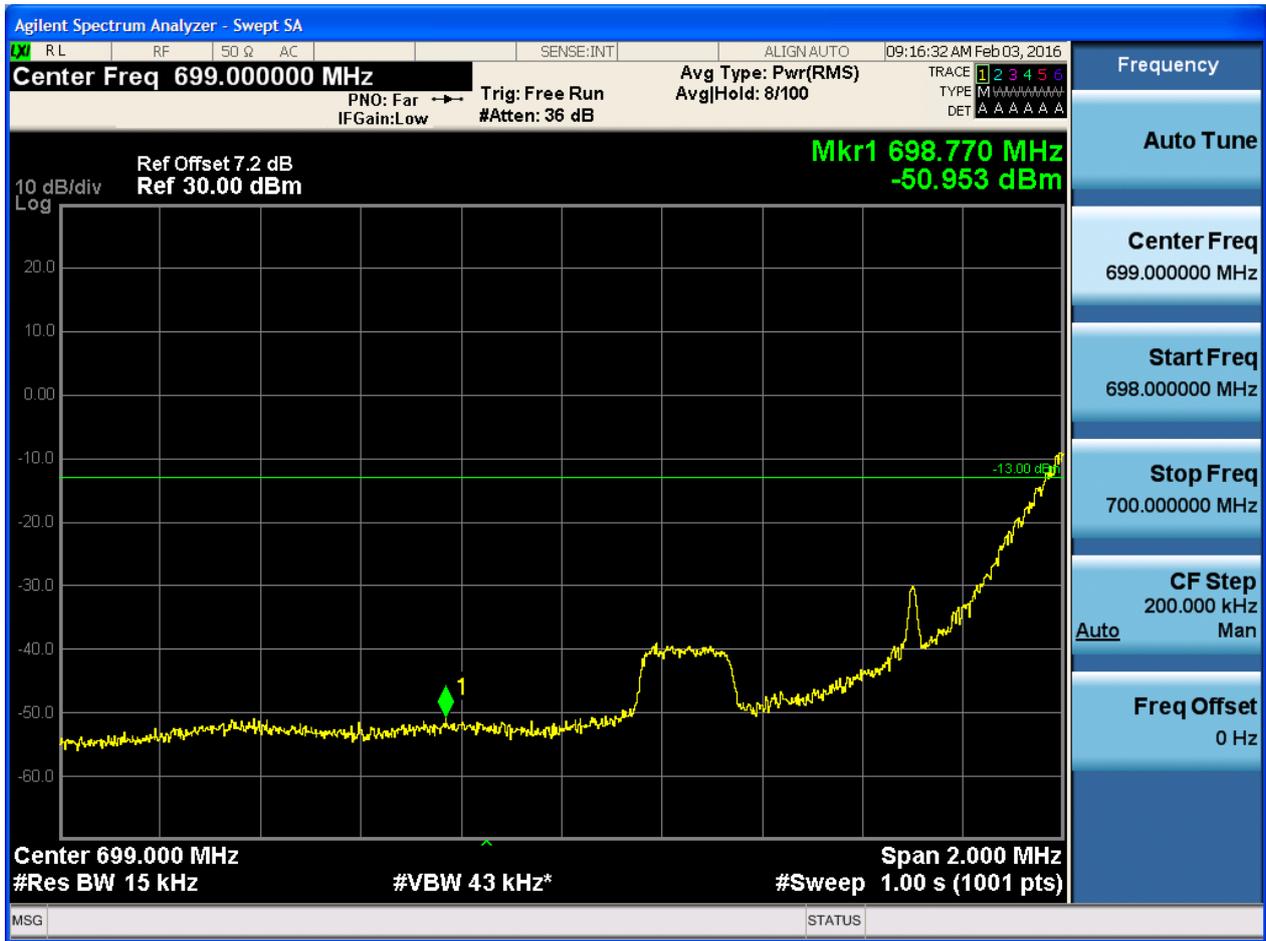
5.1.1.2.1.1.3 Test RB = RB3#2

5.1.1.2.1.1.4 Test RB = RB6#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#5

5.1.1.2.1.2.3 Test RB = RB3#2

5.1.1.2.1.2.4 Test RB = RB6#0

5.1.1.2.2 Test Bandwidth = 3

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0
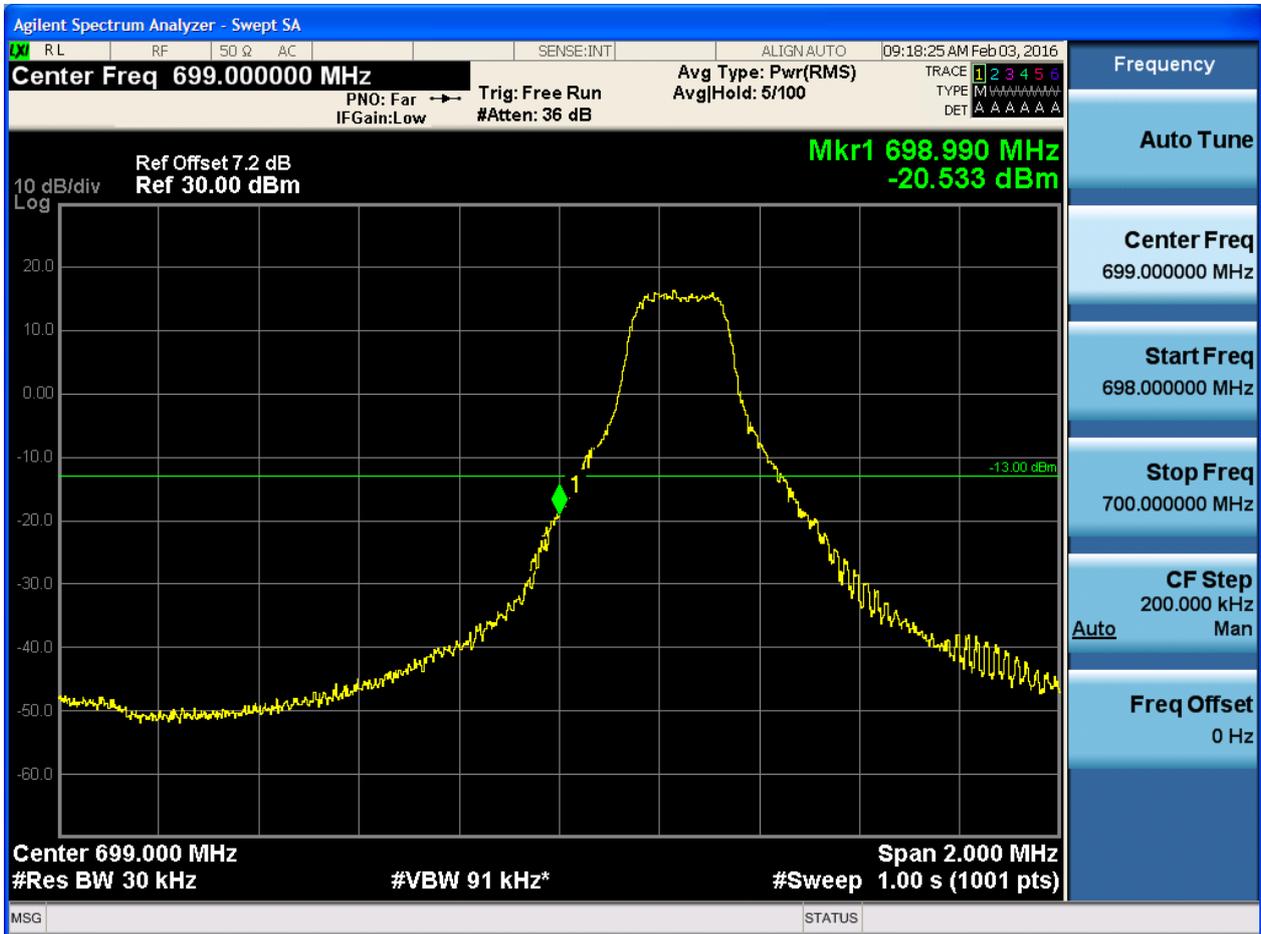
5.1.1.2.2.1.2 Test RB = RB1#14
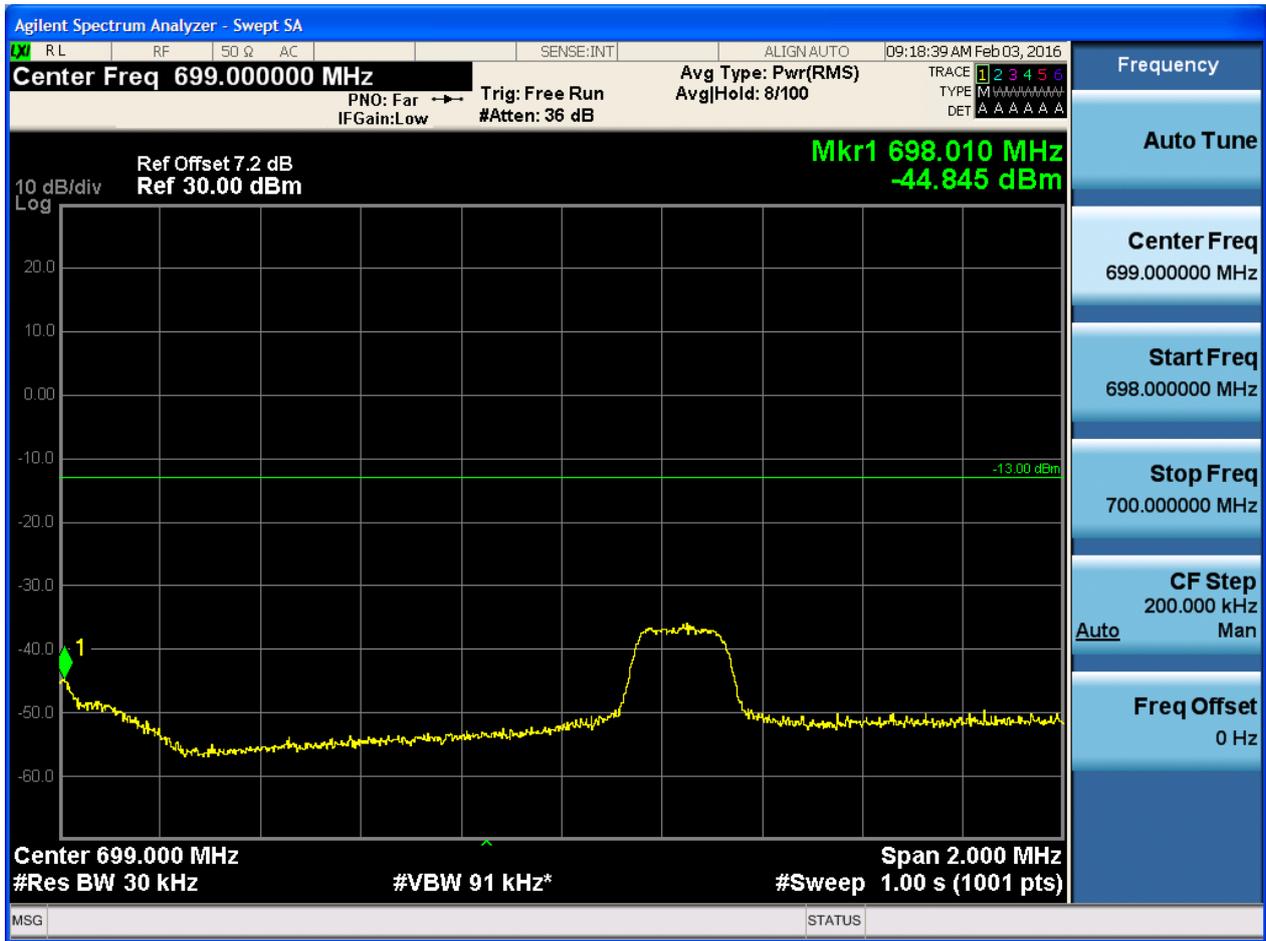
## 5.1.1.2.2.1.3 Test RB = RB8#4

5.1.1.2.2.1.4 Test RB = RB15#0

5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0

5.1.1.2.2.2.2 Test RB = RB1#14

5.1.1.2.2.2.3 Test RB = RB8#4

5.1.1.2.2.2.4 Test RB = RB15#0

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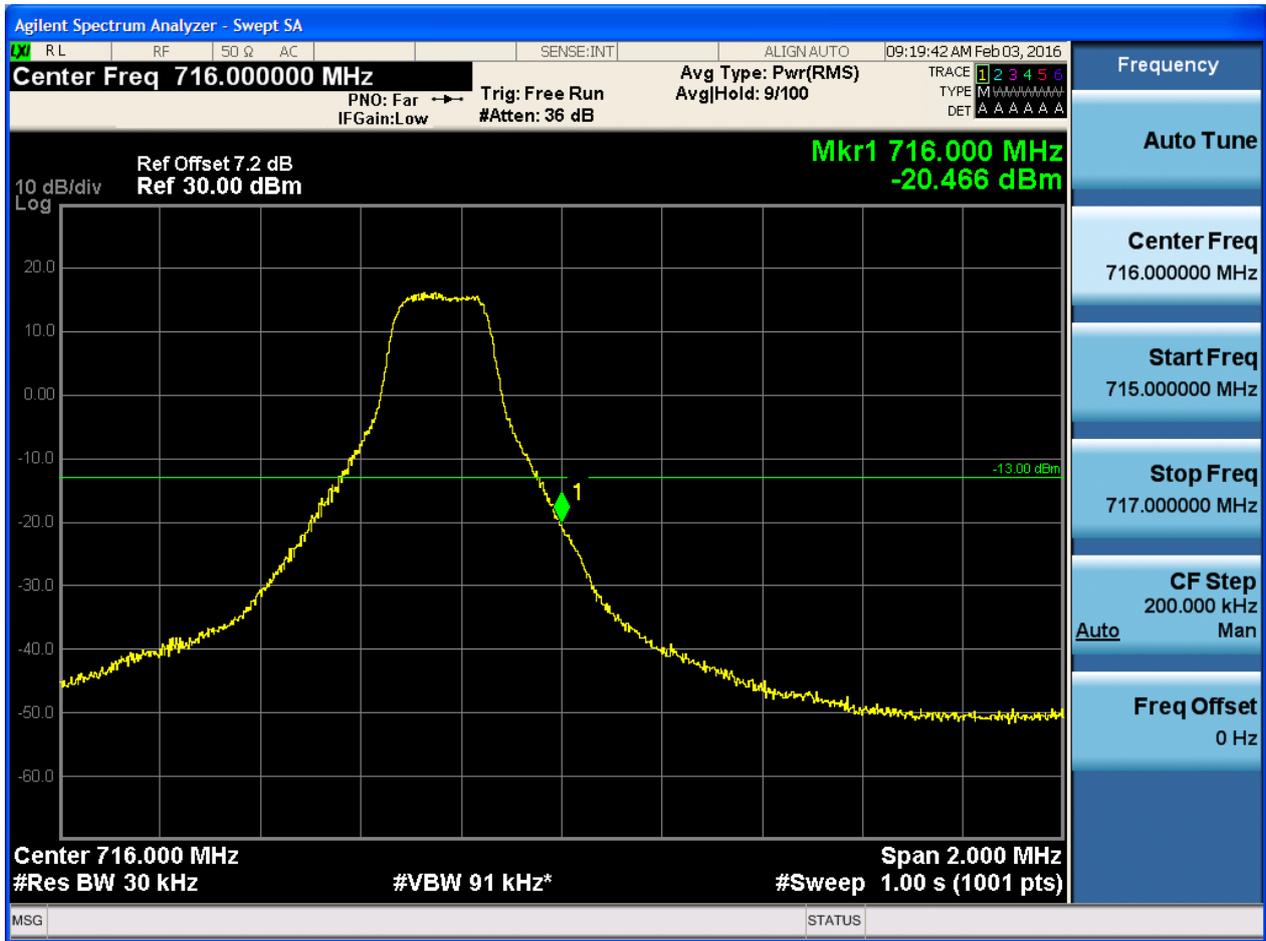
5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

5.1.1.2.3.1.2 Test RB = RB1#24

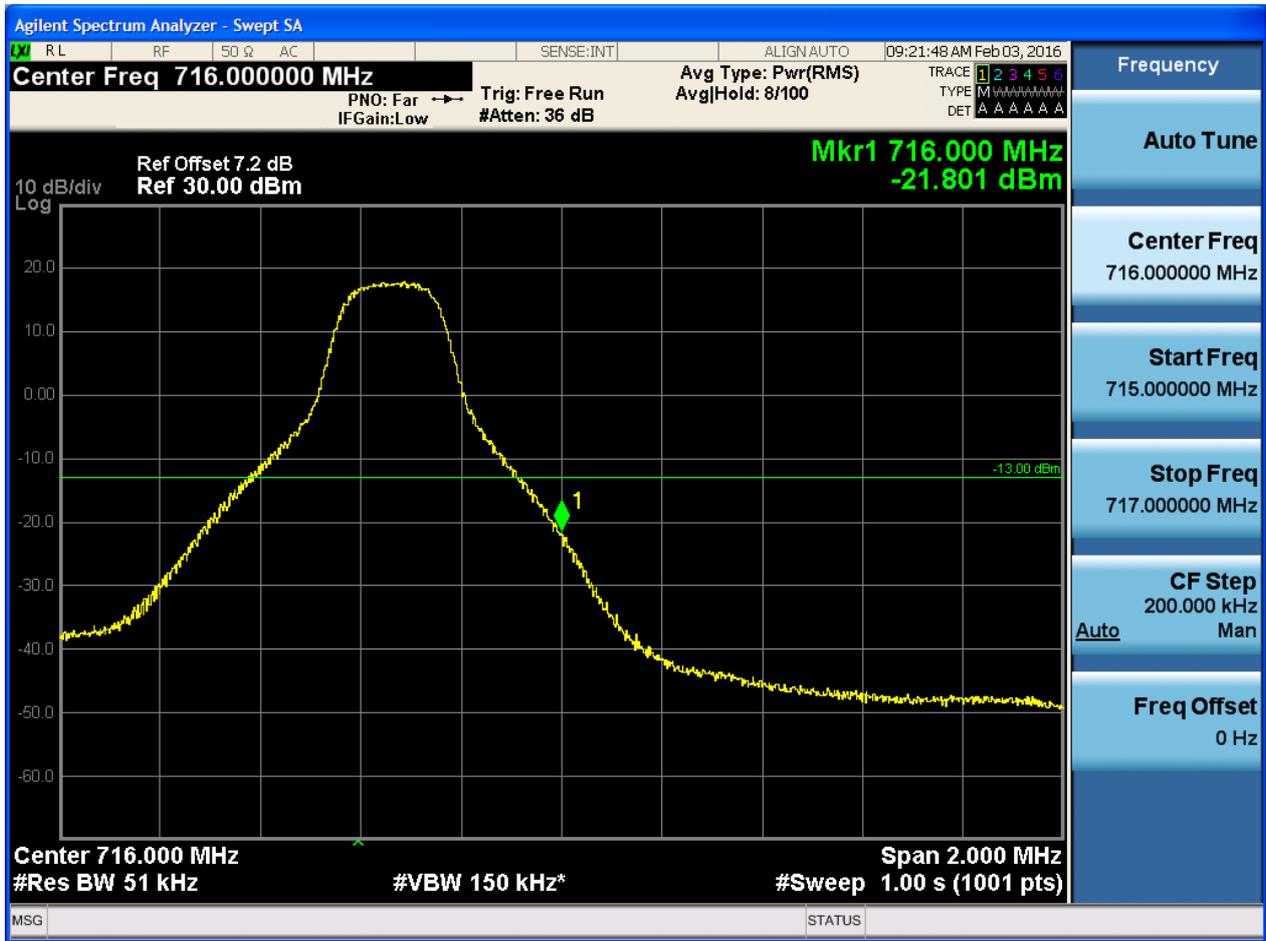## 5.1.1.2.3.1.3 Test RB = RB12#6

5.1.1.2.3.1.4 Test RB = RB25#0

5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0
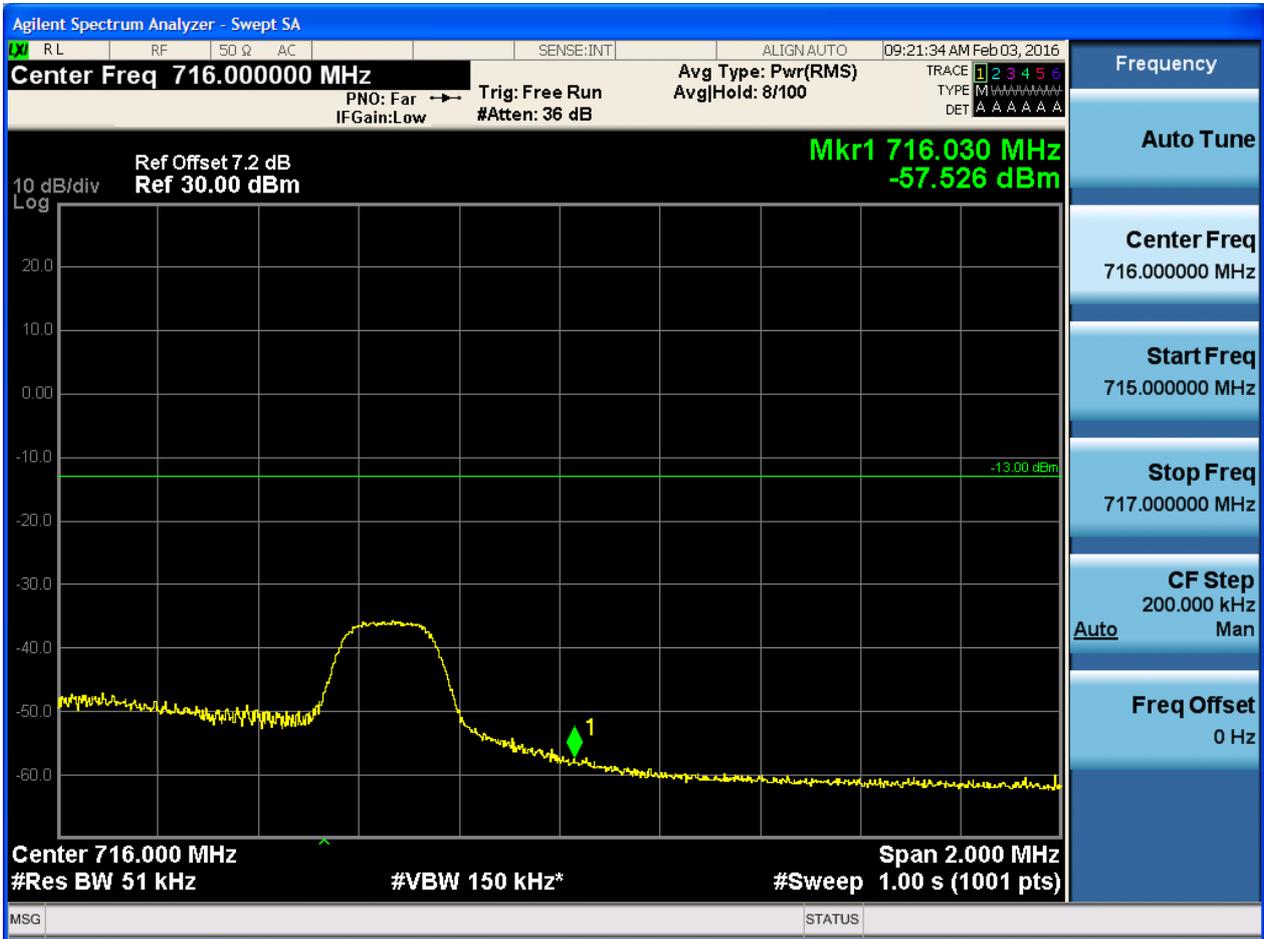
5.1.1.2.3.2.2 Test RB = RB1#24

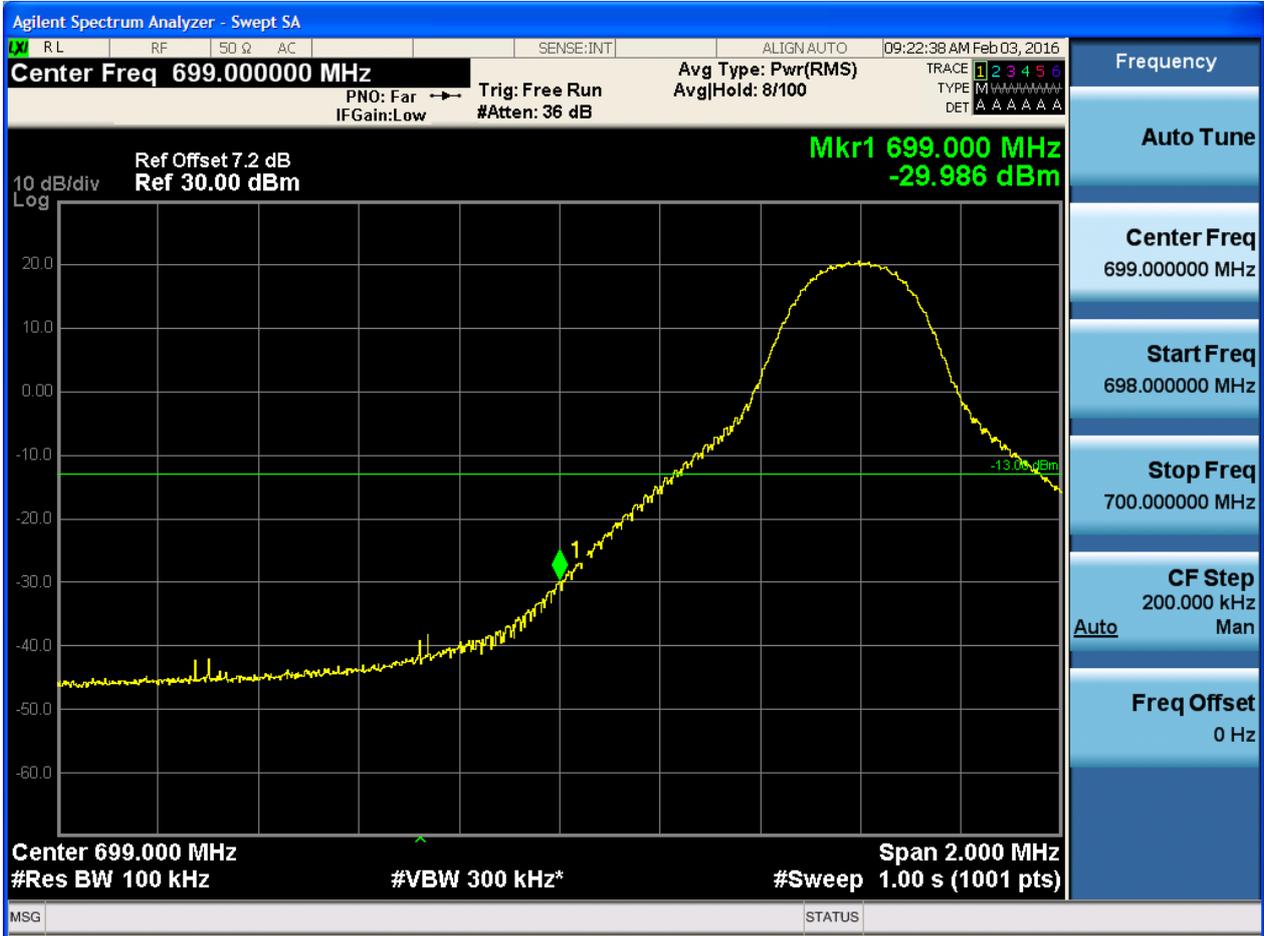## 5.1.1.2.3.2.3 Test RB = RB12#6

5.1.1.2.3.2.4 Test RB = RB25#0

5.1.1.2.4 Test Bandwidth = 10

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#49