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	23.51	23.71	30	PASS
				RB1#3	23.57	23.77	30	PASS
				RB1#5	23.65	23.85	30	PASS
				RB3#0	23.59	23.79	30	PASS
				RB3#2	23.62	23.82	30	PASS
				RB3#3	23.67	23.87	30	PASS
				RB6#0	22.6	22.8	30	PASS
			MCH	RB1#0	23.46	23.66	30	PASS
				RB1#3	23.73	23.93	30	PASS
				RB1#5	23.46	23.66	30	PASS
				RB3#0	23.47	23.67	30	PASS
				RB3#2	23.43	23.63	30	PASS
				RB3#3	23.54	23.74	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	22.33	22.53	30	PASS
			HCH	RB1#0	23.26	23.46	30	PASS
				RB1#3	23.42	23.62	30	PASS
				RB1#5	23.39	23.59	30	PASS
				RB3#0	23.47	23.67	30	PASS
				RB3#2	23.4	23.6	30	PASS
				RB3#3	23.32	23.52	30	PASS
				RB6#0	22.38	22.58	30	PASS
		3	LCH	RB1#0	23.71	23.91	30	PASS
				RB1#7	23.7	23.9	30	PASS
				RB1#14	23.77	23.97	30	PASS
				RB8#0	22.46	22.66	30	PASS
				RB8#4	22.52	22.72	30	PASS
				RB8#7	22.56	22.76	30	PASS
				RB15#0	22.56	22.76	30	PASS
			MCH	RB1#0	23.42	23.62	30	PASS
				RB1#7	23.67	23.87	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	23.51	23.71	30	PASS
				RB8#0	22.47	22.67	30	PASS
				RB8#4	22.36	22.56	30	PASS
				RB8#7	22.5	22.7	30	PASS
				RB15#0	22.52	22.72	30	PASS
			HCH	RB1#0	23.5	23.7	30	PASS
				RB1#7	23.54	23.74	30	PASS
				RB1#14	23.41	23.61	30	PASS
				RB8#0	22.38	22.58	30	PASS
				RB8#4	22.33	22.53	30	PASS
				RB8#7	22.37	22.57	30	PASS
				RB15#0	22.39	22.59	30	PASS
		5	LCH	RB1#0	23.79	23.99	30	PASS
				RB1#13	23.76	23.96	30	PASS
				RB1#24	23.72	23.92	30	PASS
				RB12#0	22.61	22.81	30	PASS
				RB12#6	22.52	22.72	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.54	22.74	30	PASS
				RB25#0	22.5	22.7	30	PASS
			MCH	RB1#0	23.4	23.6	30	PASS
				RB1#13	23.49	23.69	30	PASS
				RB1#24	23.48	23.68	30	PASS
				RB12#0	22.42	22.62	30	PASS
				RB12#6	22.58	22.78	30	PASS
				RB12#13	22.54	22.74	30	PASS
				RB25#0	22.5	22.7	30	PASS
			HCH	RB1#0	23.3	23.5	30	PASS
				RB1#13	23.26	23.46	30	PASS
				RB1#24	23.15	23.35	30	PASS
				RB12#0	22.48	22.68	30	PASS
				RB12#6	22.44	22.64	30	PASS
				RB12#13	22.51	22.71	30	PASS
				RB25#0	22.47	22.67	30	PASS
		10	LCH	RB1#0	23.73	23.93	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#25	23.8	24	30	PASS
				RB1#49	23.76	23.96	30	PASS
				RB25#0	22.58	22.78	30	PASS
				RB25#13	22.62	22.82	30	PASS
				RB25#25	22.55	22.75	30	PASS
				RB50#0	22.58	22.78	30	PASS
			MCH	RB1#0	23.57	23.77	30	PASS
				RB1#25	23.64	23.84	30	PASS
				RB1#49	23.43	23.63	30	PASS
				RB25#0	22.49	22.69	30	PASS
				RB25#13	22.49	22.69	30	PASS
				RB25#25	22.55	22.75	30	PASS
				RB50#0	22.43	22.63	30	PASS
			HCH	RB1#0	23.55	23.75	30	PASS
				RB1#25	23.65	23.85	30	PASS
				RB1#49	23.57	23.77	30	PASS
				RB25#0	22.49	22.69	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.5	22.7	30	PASS
				RB25#25	22.43	22.63	30	PASS
				RB50#0	22.41	22.61	30	PASS
			LCH	RB1#0	23.71	23.91	30	PASS
				RB1#38	23.96	24.16	30	PASS
				RB1#74	23.78	23.98	30	PASS
				RB38#0	22.6	22.8	30	PASS
				RB38#19	22.62	22.82	30	PASS
				RB38#39	22.58	22.78	30	PASS
		15		RB75#0	22.57	22.77	30	PASS
			MCH	RB1#0	23.47	23.67	30	PASS
				RB1#38	23.59	23.79	30	PASS
				RB1#74	23.45	23.65	30	PASS
				RB38#0	22.45	22.65	30	PASS
				RB38#19	22.45	22.65	30	PASS
				RB38#39	22.55	22.75	30	PASS
				RB75#0	22.47	22.67	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	23.7	23.9	30	PASS
				RB1#38	23.71	23.91	30	PASS
				RB1#74	23.75	23.95	30	PASS
				RB38#0	22.6	22.8	30	PASS
				RB38#19	22.58	22.78	30	PASS
				RB38#39	22.61	22.81	30	PASS
				RB75#0	22.51	22.71	30	PASS
		20	LCH	RB1#0	23.38	23.58	30	PASS
				RB1#50	23.71	23.91	30	PASS
				RB1#99	23.48	23.68	30	PASS
				RB50#0	22.58	22.78	30	PASS
				RB50#25	22.63	22.83	30	PASS
				RB50#50	22.64	22.84	30	PASS
				RB100#0	22.56	22.76	30	PASS
			MCH	RB1#0	23.41	23.61	30	PASS
				RB1#50	23.71	23.91	30	PASS
				RB1#99	23.45	23.65	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	22.53	22.73	30	PASS
				RB50#25	22.51	22.71	30	PASS
				RB50#50	22.5	22.7	30	PASS
				RB100#0	22.54	22.74	30	PASS
			HCH	RB1#0	23.85	24.05	30	PASS
				RB1#50	23.7	23.9	30	PASS
				RB1#99	23.7	23.9	30	PASS
				RB50#0	22.71	22.91	30	PASS
				RB50#25	22.49	22.69	30	PASS
				RB50#50	22.54	22.74	30	PASS
				RB100#0	22.57	22.77	30	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.13	22.33	30	PASS
				RB1#3	22.29	22.49	30	PASS
				RB1#5	22.02	22.22	30	PASS
				RB3#0	22.4	22.6	30	PASS
				RB3#2	22.49	22.69	30	PASS
				RB3#3	22.37	22.57	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	21.53	21.73	30	PASS
			MCH	RB1#0	22.31	22.51	30	PASS
				RB1#3	22.84	23.04	30	PASS
				RB1#5	22.87	23.07	30	PASS
				RB3#0	22.52	22.72	30	PASS
				RB3#2	22.48	22.68	30	PASS
				RB3#3	22.68	22.88	30	PASS
				RB6#0	21.6	21.8	30	PASS
			HCH	RB1#0	21.91	22.11	30	PASS
				RB1#3	22.03	22.23	30	PASS
				RB1#5	21.85	22.05	30	PASS
				RB3#0	22.59	22.79	30	PASS
				RB3#2	22.61	22.81	30	PASS
				RB3#3	22.54	22.74	30	PASS
				RB6#0	21.41	21.61	30	PASS
		3	LCH	RB1#0	22.39	22.59	30	PASS
				RB1#7	22.69	22.89	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	22.42	22.62	30	PASS
				RB8#0	21.53	21.73	30	PASS
				RB8#4	21.41	21.61	30	PASS
				RB8#7	21.47	21.67	30	PASS
				RB15#0	21.48	21.68	30	PASS
			MCH	RB1#0	22.35	22.55	30	PASS
				RB1#7	22.87	23.07	30	PASS
				RB1#14	22.8	23	30	PASS
				RB8#0	21.65	21.85	30	PASS
				RB8#4	21.49	21.69	30	PASS
				RB8#7	21.73	21.93	30	PASS
				RB15#0	21.41	21.61	30	PASS
			HCH	RB1#0	21.7	21.9	30	PASS
				RB1#7	22.11	22.31	30	PASS
				RB1#14	21.8	22	30	PASS
				RB8#0	21.48	21.68	30	PASS
				RB8#4	21.38	21.58	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB8#7	21.18	21.38	30	PASS
				RB15#0	21.25	21.45	30	PASS
			LCH	RB1#0	21.95	22.15	30	PASS
				RB1#13	22.02	22.22	30	PASS
				RB1#24	22.03	22.23	30	PASS
				RB12#0	21.42	21.62	30	PASS
				RB12#6	21.7	21.9	30	PASS
				RB12#13	21.61	21.81	30	PASS
				RB25#0	21.61	21.81	30	PASS
		5	MCH	RB1#0	21.88	22.08	30	PASS
				RB1#13	22.11	22.31	30	PASS
				RB1#24	21.97	22.17	30	PASS
				RB12#0	21.62	21.82	30	PASS
				RB12#6	21.6	21.8	30	PASS
				RB12#13	21.67	21.87	30	PASS
				RB25#0	21.76	21.96	30	PASS
			HCH	RB1#0	22.64	22.84	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.68	22.88	30	PASS
				RB1#24	22.18	22.38	30	PASS
				RB12#0	21.56	21.76	30	PASS
				RB12#6	21.51	21.71	30	PASS
				RB12#13	21.68	21.88	30	PASS
				RB25#0	21.51	21.71	30	PASS
			LCH	RB1#0	22.6	22.8	30	PASS
				RB1#25	22.67	22.87	30	PASS
				RB1#49	22.55	22.75	30	PASS
				RB25#0	21.62	21.82	30	PASS
				RB25#13	21.7	21.9	30	PASS
		10		RB25#25	21.63	21.83	30	PASS
				RB50#0	21.65	21.85	30	PASS
			MCH	RB1#0	21.66	21.86	30	PASS
				RB1#25	22.85	23.05	30	PASS
				RB1#49	22	22.2	30	PASS
				RB25#0	21.56	21.76	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.56	21.76	30	PASS
				RB25#25	21.72	21.92	30	PASS
				RB50#0	21.62	21.82	30	PASS
			HCH	RB1#0	22.32	22.52	30	PASS
				RB1#25	22.18	22.38	30	PASS
				RB1#49	21.92	22.12	30	PASS
				RB25#0	21.6	21.8	30	PASS
				RB25#13	21.77	21.97	30	PASS
				RB25#25	21.57	21.77	30	PASS
				RB50#0	21.47	21.67	30	PASS
		15	LCH	RB1#0	22.68	22.88	30	PASS
				RB1#38	22.62	22.82	30	PASS
				RB1#74	22.69	22.89	30	PASS
				RB38#0	21.68	21.88	30	PASS
				RB38#19	21.77	21.97	30	PASS
				RB38#39	21.67	21.87	30	PASS
				RB75#0	21.55	21.75	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.26	22.46	30	PASS
				RB1#38	22.87	23.07	30	PASS
				RB1#74	22.77	22.97	30	PASS
				RB38#0	21.57	21.77	30	PASS
				RB38#19	21.57	21.77	30	PASS
				RB38#39	21.57	21.77	30	PASS
				RB75#0	21.63	21.83	30	PASS
			HCH	RB1#0	22.36	22.56	30	PASS
				RB1#38	22.57	22.77	30	PASS
				RB1#74	22.07	22.27	30	PASS
				RB38#0	21.51	21.71	30	PASS
				RB38#19	21.51	21.71	30	PASS
				RB38#39	21.5	21.7	30	PASS
				RB75#0	21.59	21.79	30	PASS
		20	LCH	RB1#0	22.94	23.14	30	PASS
				RB1#50	23.14	23.34	30	PASS
				RB1#99	22.61	22.81	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.72	21.92	30	PASS
				RB50#25	21.74	21.94	30	PASS
				RB50#50	21.77	21.97	30	PASS
				RB100#0	21.66	21.86	30	PASS
			MCH	RB1#0	22.11	22.31	30	PASS
				RB1#50	22.93	23.13	30	PASS
				RB1#99	22.19	22.39	30	PASS
				RB50#0	21.54	21.74	30	PASS
				RB50#25	21.6	21.8	30	PASS
				RB50#50	21.61	21.81	30	PASS
				RB100#0	21.73	21.93	30	PASS
			HCH	RB1#0	23.01	23.21	30	PASS
				RB1#50	23.01	23.21	30	PASS
				RB1#99	22.53	22.73	30	PASS
				RB50#0	21.67	21.87	30	PASS
				RB50#25	21.47	21.67	30	PASS
				RB50#50	21.46	21.66	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	21.66	21.86	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,

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
BAND4	LTE/TM1	1.4	LCH	RB1#0	3.78	13	PASS
				RB1#3	3.65	13	PASS
				RB1#5	3.68	13	PASS
				RB3#0	4.04	13	PASS
				RB3#2	3.83	13	PASS
				RB3#3	3.94	13	PASS
				RB6#0	5.12	13	PASS
			MCH	RB1#0	3.54	13	PASS
				RB1#3	3.34	13	PASS
				RB1#5	3.48	13	PASS
				RB3#0	3.74	13	PASS
				RB3#2	3.58	13	PASS
				RB3#3	3.79	13	PASS
				RB6#0	4.87	13	PASS
			HCH	RB1#0	3.15	13	PASS
				RB1#3	2.81	13	PASS
				RB1#5	3.05	13	PASS
				RB3#0	3.46	13	PASS
				RB3#2	3.14	13	PASS
				RB3#3	3.48	13	PASS
				RB6#0	4.55	13	PASS
		3	LCH	RB1#0	3.89	13	PASS
				RB1#7	3.6	13	PASS
				RB1#14	3.65	13	PASS
				RB8#0	4.59	13	PASS
				RB8#4	4.52	13	PASS
				RB8#7	4.59	13	PASS
				RB15#0	5.13	13	PASS
			MCH	RB1#0	3.61	13	PASS
				RB1#7	3.36	13	PASS
				RB1#14	3.53	13	PASS
				RB8#0	4.28	13	PASS
				RB8#4	4.26	13	PASS
				RB8#7	4.37	13	PASS
				RB15#0	4.86	13	PASS
			HCH	RB1#0	3.26	13	PASS
				RB1#7	2.99	13	PASS
				RB1#14	3.08	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	4.04	13	PASS
				RB8#4	3.93	13	PASS
				RB8#7	3.95	13	PASS
				RB15#0	4.58	13	PASS
		5	LCH	RB1#0	3.79	13	PASS
				RB1#13	3.55	13	PASS
				RB1#24	3.69	13	PASS
				RB12#0	4.5	13	PASS
				RB12#6	4.42	13	PASS
				RB12#13	4.5	13	PASS
				RB25#0	4.94	13	PASS
			MCH	RB1#0	3.48	13	PASS
				RB1#13	3.51	13	PASS
				RB1#24	3.59	13	PASS
				RB12#0	4.18	13	PASS
				RB12#6	4.09	13	PASS
				RB12#13	4.29	13	PASS
				RB25#0	4.98	13	PASS
			HCH	RB1#0	3.55	13	PASS
				RB1#13	3.22	13	PASS
				RB1#24	3.25	13	PASS
				RB12#0	4.15	13	PASS
				RB12#6	3.87	13	PASS
				RB12#13	3.93	13	PASS
				RB25#0	4.67	13	PASS
		10	LCH	RB1#0	3.86	13	PASS
				RB1#25	3.39	13	PASS
				RB1#49	3.55	13	PASS
				RB25#0	4.46	13	PASS
				RB25#13	4.31	13	PASS
				RB25#25	4.35	13	PASS
				RB50#0	4.96	13	PASS
			MCH	RB1#0	3.39	13	PASS
				RB1#25	3.45	13	PASS
				RB1#49	3.71	13	PASS
				RB25#0	4.22	13	PASS
				RB25#13	4.19	13	PASS
				RB25#25	4.38	13	PASS
				RB50#0	5	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	3.64	13	PASS
				RB1#25	3.24	13	PASS
				RB1#49	2.88	13	PASS
				RB25#0	4.44	13	PASS
				RB25#13	4.09	13	PASS
				RB25#25	4.06	13	PASS
				RB50#0	4.51	13	PASS
			LCH	RB1#0	3.48	13	PASS
				RB1#38	3.47	13	PASS
				RB1#74	3.33	13	PASS
				RB38#0	4.47	13	PASS
				RB38#19	4.28	13	PASS
				RB38#39	4.29	13	PASS
				RB75#0	5.19	13	PASS
		15	MCH	RB1#0	3.4	13	PASS
				RB1#38	3.39	13	PASS
				RB1#74	3.73	13	PASS
				RB38#0	4.25	13	PASS
				RB38#19	4.15	13	PASS
				RB38#39	4.37	13	PASS
				RB75#0	4.94	13	PASS
			HCH	RB1#0	3.48	13	PASS
				RB1#38	3.48	13	PASS
				RB1#74	2.86	13	PASS
				RB38#0	4.52	13	PASS
				RB38#19	4.23	13	PASS
				RB38#39	4.12	13	PASS
				RB75#0	4.93	13	PASS
		20	LCH	RB1#0	4.09	13	PASS
				RB1#50	3.44	13	PASS
				RB1#99	3.52	13	PASS
				RB50#0	4.48	13	PASS
				RB50#25	4.23	13	PASS
				RB50#50	4.25	13	PASS
				RB100#0	4.96	13	PASS
			MCH	RB1#0	3.61	13	PASS
				RB1#50	3.39	13	PASS
				RB1#99	3.78	13	PASS
				RB50#0	4.26	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#25	4.23	13	PASS
				RB50#50	4.43	13	PASS
				RB100#0	4.83	13	PASS
			HCH	RB1#0	3.52	13	PASS
				RB1#50	3.52	13	PASS
				RB1#99	2.82	13	PASS
				RB50#0	4.51	13	PASS
				RB50#25	4.34	13	PASS
				RB50#50	4.25	13	PASS
				RB100#0	5.13	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.66	13	PASS
				RB1#3	4.52	13	PASS
				RB1#5	4.78	13	PASS
				RB3#0	5.02	13	PASS
				RB3#2	4.82	13	PASS
				RB3#3	4.97	13	PASS
				RB6#0	5.67	13	PASS
			MCH	RB1#0	4.42	13	PASS
				RB1#3	4.38	13	PASS
				RB1#5	4.47	13	PASS
				RB3#0	4.37	13	PASS
				RB3#2	4.3	13	PASS
				RB3#3	4.54	13	PASS
				RB6#0	5.41	13	PASS
			HCH	RB1#0	3.99	13	PASS
				RB1#3	3.91	13	PASS
				RB1#5	3.99	13	PASS
				RB3#0	4.32	13	PASS
				RB3#2	4.2	13	PASS
				RB3#3	4.37	13	PASS
				RB6#0	5.37	13	PASS
		3	LCH	RB1#0	4.49	13	PASS
				RB1#7	4.43	13	PASS
				RB1#14	4.69	13	PASS
				RB8#0	5.44	13	PASS
				RB8#4	5.42	13	PASS
				RB8#7	5.57	13	PASS
				RB15#0	6.01	13	PASS
			MCH	RB1#0	4.5	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#7	4.44	13	PASS
				RB1#14	4.54	13	PASS
				RB8#0	5.19	13	PASS
				RB8#4	5.14	13	PASS
				RB8#7	5.28	13	PASS
				RB15#0	5.81	13	PASS
			HCH	RB1#0	4.22	13	PASS
				RB1#7	3.97	13	PASS
				RB1#14	4.19	13	PASS
				RB8#0	5.04	13	PASS
				RB8#4	4.94	13	PASS
				RB8#7	4.87	13	PASS
				RB15#0	5.4	13	PASS
			LCH	RB1#0	4.94	13	PASS
				RB1#13	4.83	13	PASS
				RB1#24	4.91	13	PASS
				RB12#0	5.46	13	PASS
				RB12#6	5.33	13	PASS
				RB12#13	5.37	13	PASS
				RB25#0	5.91	13	PASS
		5	MCH	RB1#0	4.57	13	PASS
				RB1#13	4.47	13	PASS
				RB1#24	4.63	13	PASS
				RB12#0	5.01	13	PASS
				RB12#6	4.92	13	PASS
				RB12#13	5.12	13	PASS
				RB25#0	5.66	13	PASS
			HCH	RB1#0	4.06	13	PASS
				RB1#13	3.72	13	PASS
				RB1#24	3.83	13	PASS
				RB12#0	4.98	13	PASS
				RB12#6	4.79	13	PASS
				RB12#13	4.74	13	PASS
				RB25#0	5.51	13	PASS
		10	LCH	RB1#0	4.85	13	PASS
				RB1#25	4.35	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	5.47	13	PASS
				RB25#13	5.4	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.39	13	PASS
				RB50#0	5.74	13	PASS
			MCH	RB1#0	4.54	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.86	13	PASS
				RB25#0	5.06	13	PASS
				RB25#13	5.04	13	PASS
				RB25#25	5.19	13	PASS
				RB50#0	5.58	13	PASS
			HCH	RB1#0	4.55	13	PASS
				RB1#25	4.28	13	PASS
				RB1#49	3.81	13	PASS
				RB25#0	5.19	13	PASS
				RB25#13	5	13	PASS
				RB25#25	4.97	13	PASS
				RB50#0	5.58	13	PASS
			LCH	RB1#0	4.58	13	PASS
				RB1#38	4.27	13	PASS
				RB1#74	4.35	13	PASS
				RB38#0	5.47	13	PASS
				RB38#19	5.25	13	PASS
				RB38#39	5.25	13	PASS
				RB75#0	5.92	13	PASS
			MCH	RB1#0	3.99	13	PASS
				RB1#38	4.05	13	PASS
				RB1#74	4.49	13	PASS
		15		RB38#0	5.24	13	PASS
				RB38#19	5.18	13	PASS
				RB38#39	5.4	13	PASS
				RB75#0	5.77	13	PASS
			HCH	RB1#0	4.49	13	PASS
				RB1#38	4.39	13	PASS
				RB1#74	3.86	13	PASS
				RB38#0	5.31	13	PASS
				RB38#19	5.22	13	PASS
				RB38#39	5.07	13	PASS
				RB75#0	5.77	13	PASS
		20	LCH	RB1#0	4.7	13	PASS
				RB1#50	4.04	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.14	13	PASS
				RB50#0	5.51	13	PASS
				RB50#25	5.09	13	PASS
				RB50#50	5.09	13	PASS
				RB100#0	5.76	13	PASS
			MCH	RB1#0	4.49	13	PASS
				RB1#50	4.05	13	PASS
				RB1#99	4.59	13	PASS
				RB50#0	5.3	13	PASS
				RB50#25	5.22	13	PASS
				RB50#50	5.43	13	PASS
				RB100#0	5.8	13	PASS
			HCH	RB1#0	4.57	13	PASS
				RB1#50	4.23	13	PASS
				RB1#99	4.16	13	PASS
				RB50#0	5.42	13	PASS
				RB50#25	5.26	13	PASS
				RB50#50	5.27	13	PASS
				RB100#0	5.76	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = BAND4

3.3.1.1 Test Mode = LTE/TM1

3.3.1.1.1 Test Bandwidth = 1.4

3.3.1.1.1.1 Test Channel = MCH

3.3.1.1.1.1.1 Test RB = RB6#0

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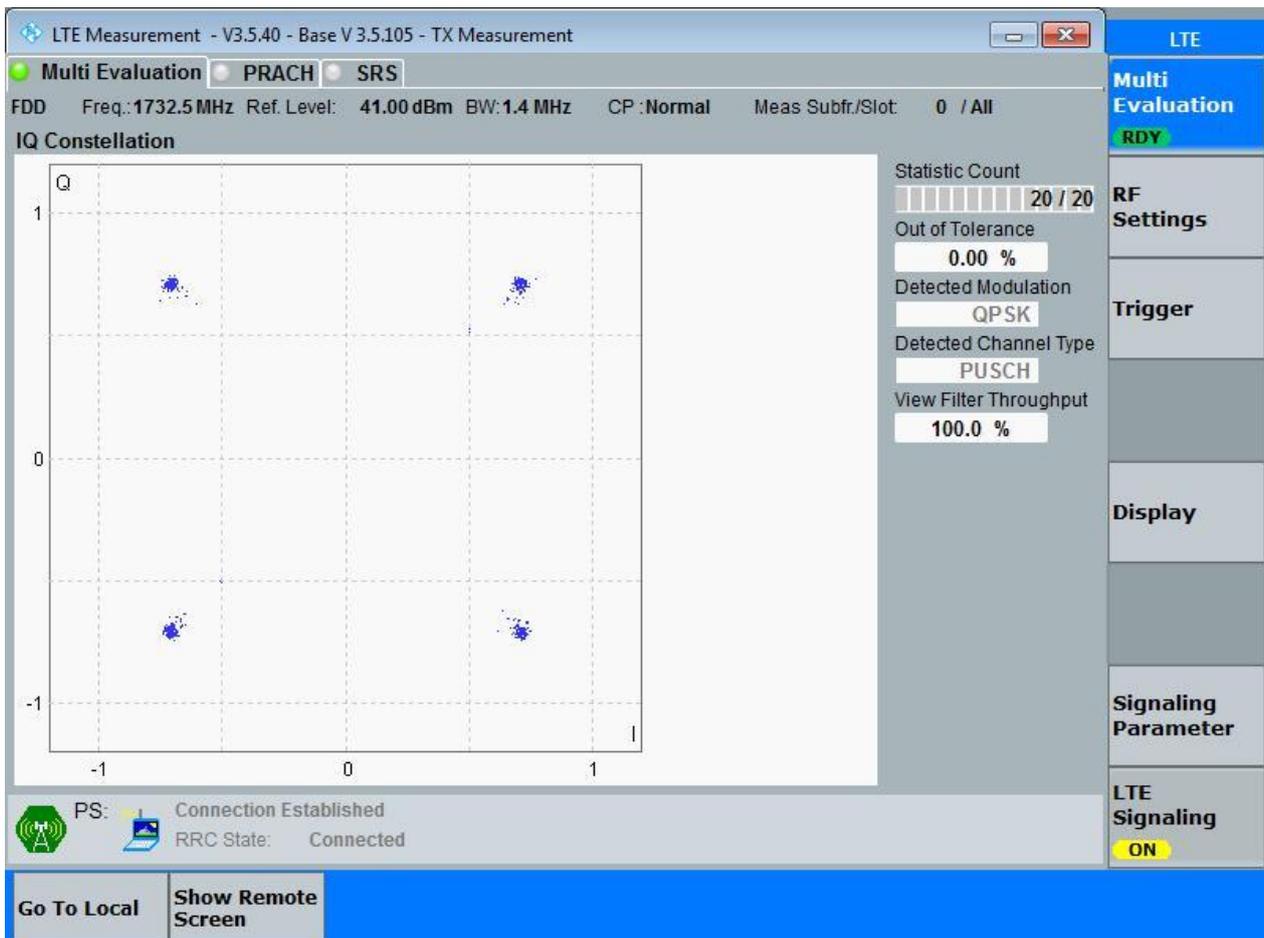
3.3.1.1.2 Test Bandwidth = 3

3.3.1.1.2.1 Test Channel = MCH

3.3.1.1.2.1.1 Test RB = RB15#0
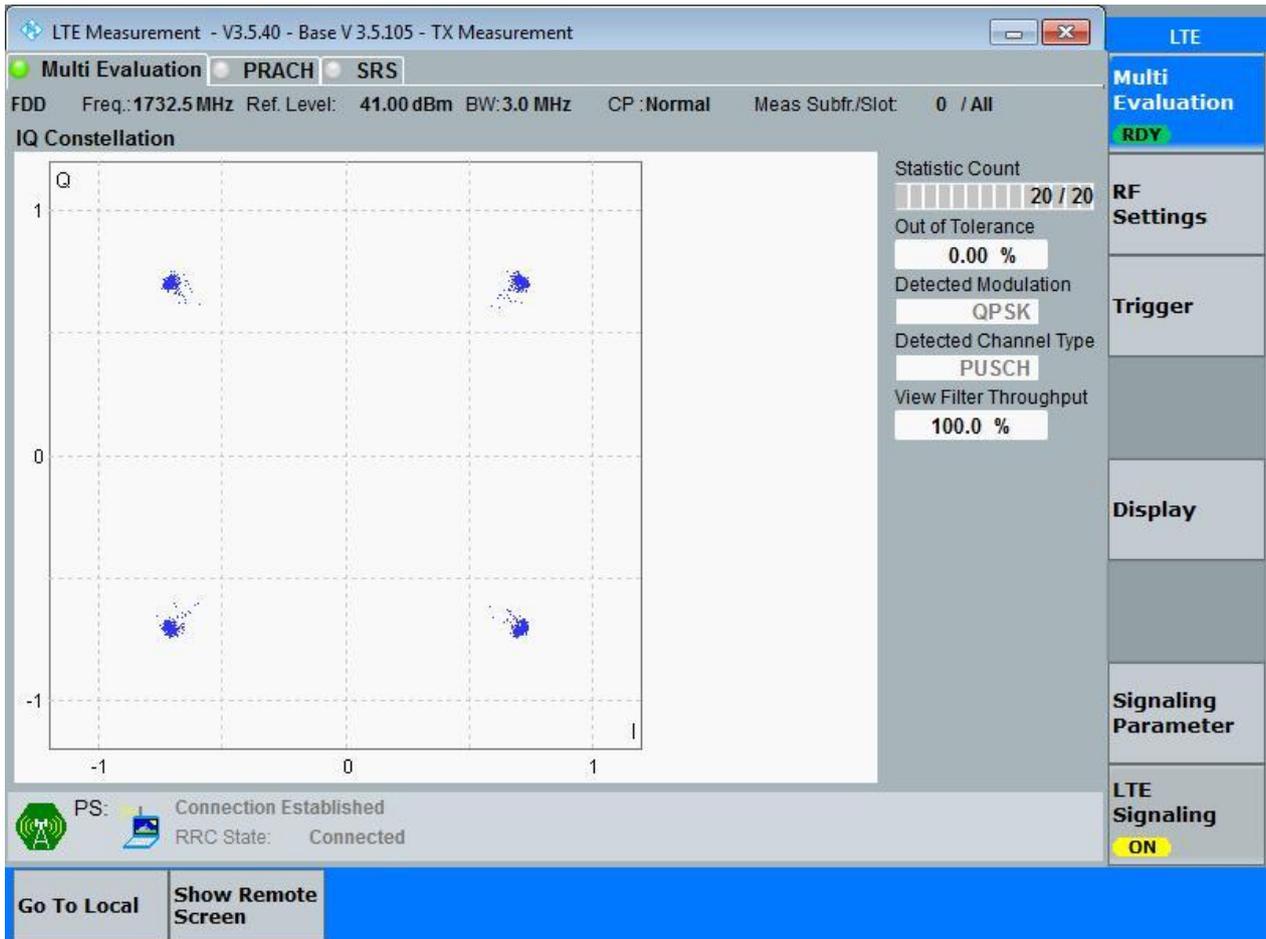
3.3.1.1.3 Test Bandwidth = 5

3.3.1.1.3.1 Test Channel = MCH

3.3.1.1.3.1.1 Test RB = RB25#0
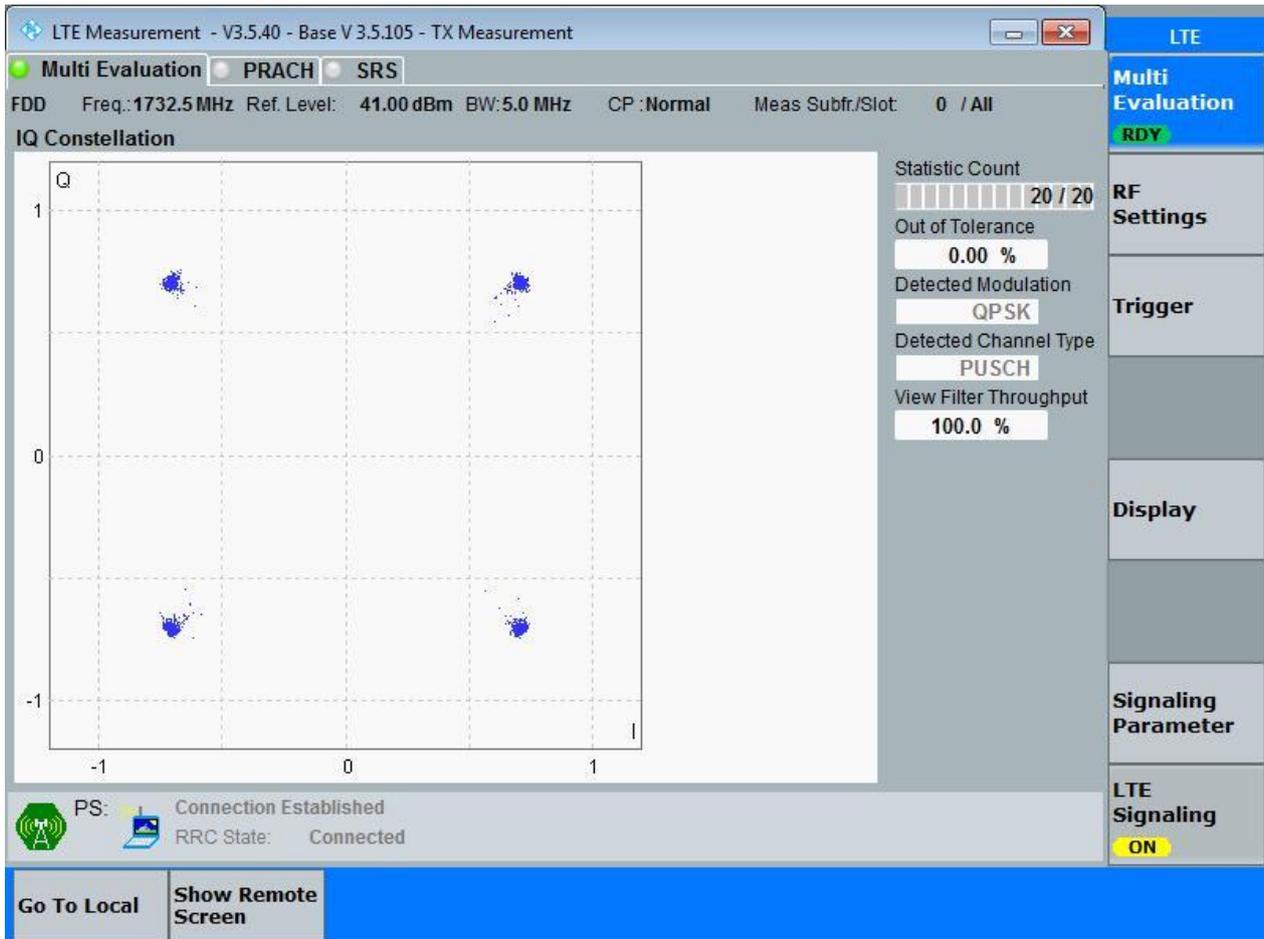
3.3.1.1.4 Test Bandwidth = 10

3.3.1.1.4.1 Test Channel = MCH

3.3.1.1.4.1.1 Test RB = RB50#0
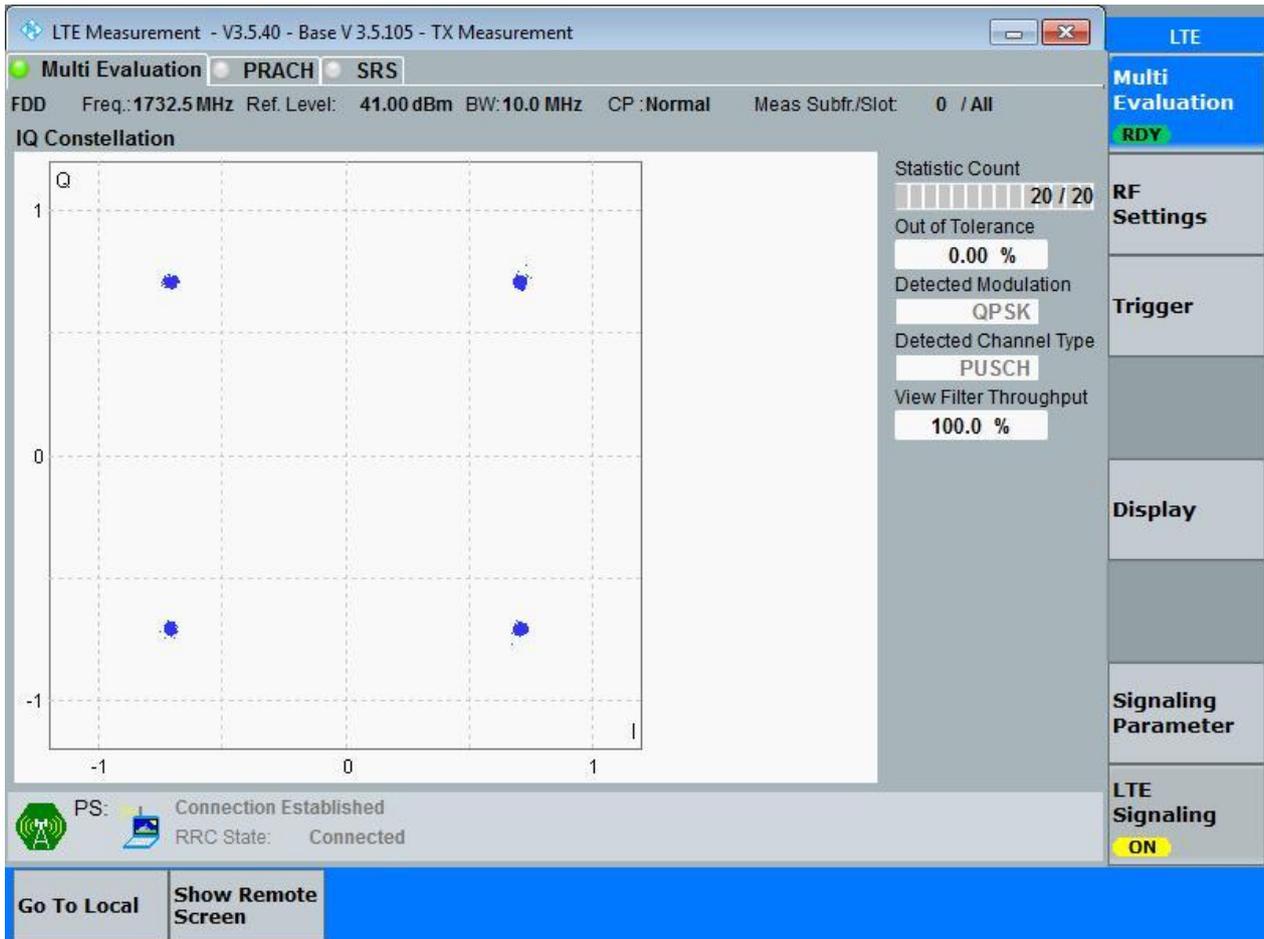
3.3.1.1.5 Test Bandwidth = 15

3.3.1.1.5.1 Test Channel = MCH

3.3.1.1.5.1.1 Test RB = RB75#0
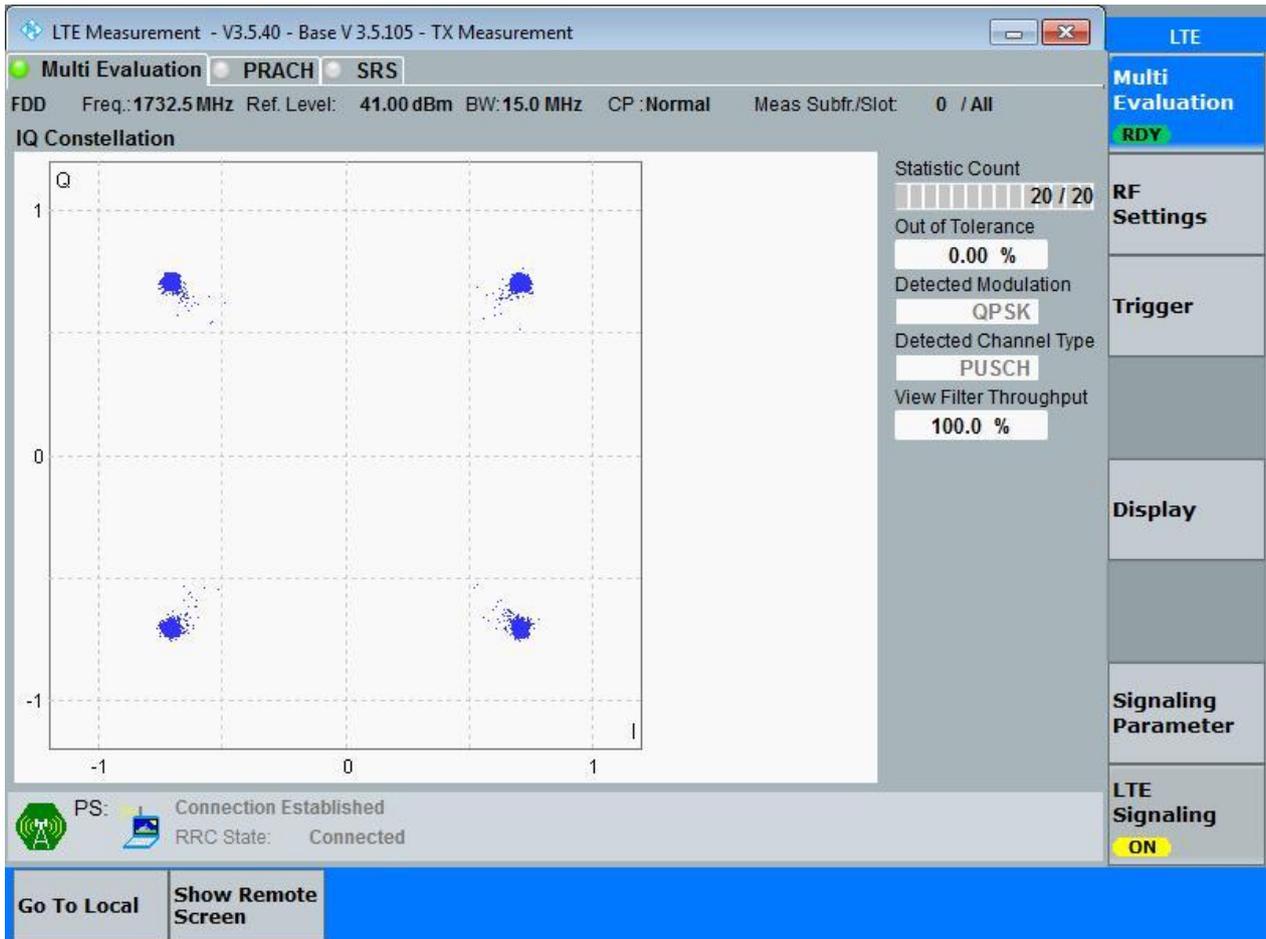
3.3.1.1.6 Test Bandwidth = 20

3.3.1.1.6.1 Test Channel = MCH

3.3.1.1.6.1.1 Test RB = RB100#0
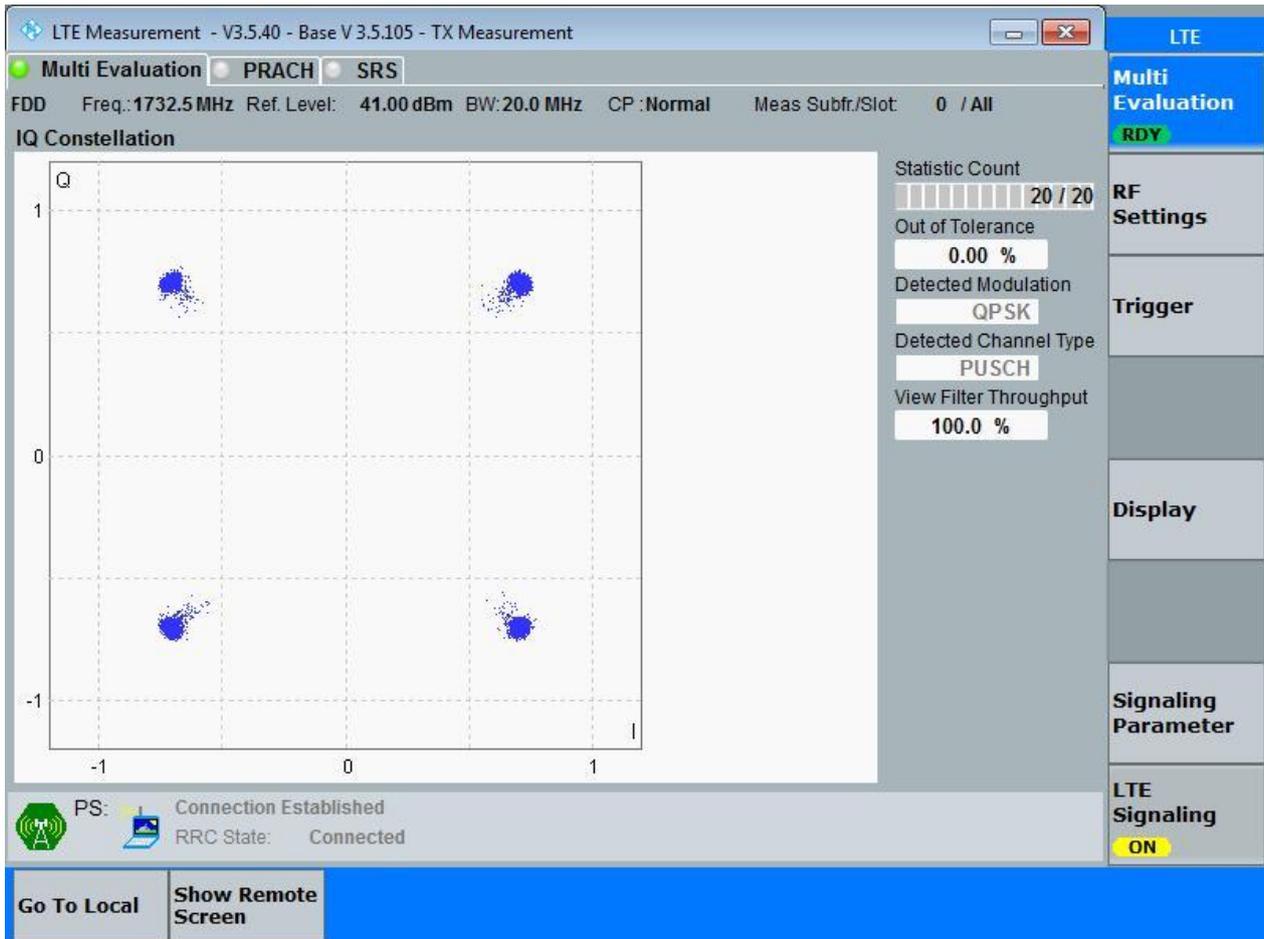
3.3.1.2 Test Mode = LTE/TM2

3.3.1.2.1 Test Bandwidth = 1.4

3.3.1.2.1.1 Test Channel = MCH

3.3.1.2.1.1.1 Test RB = RB6#0
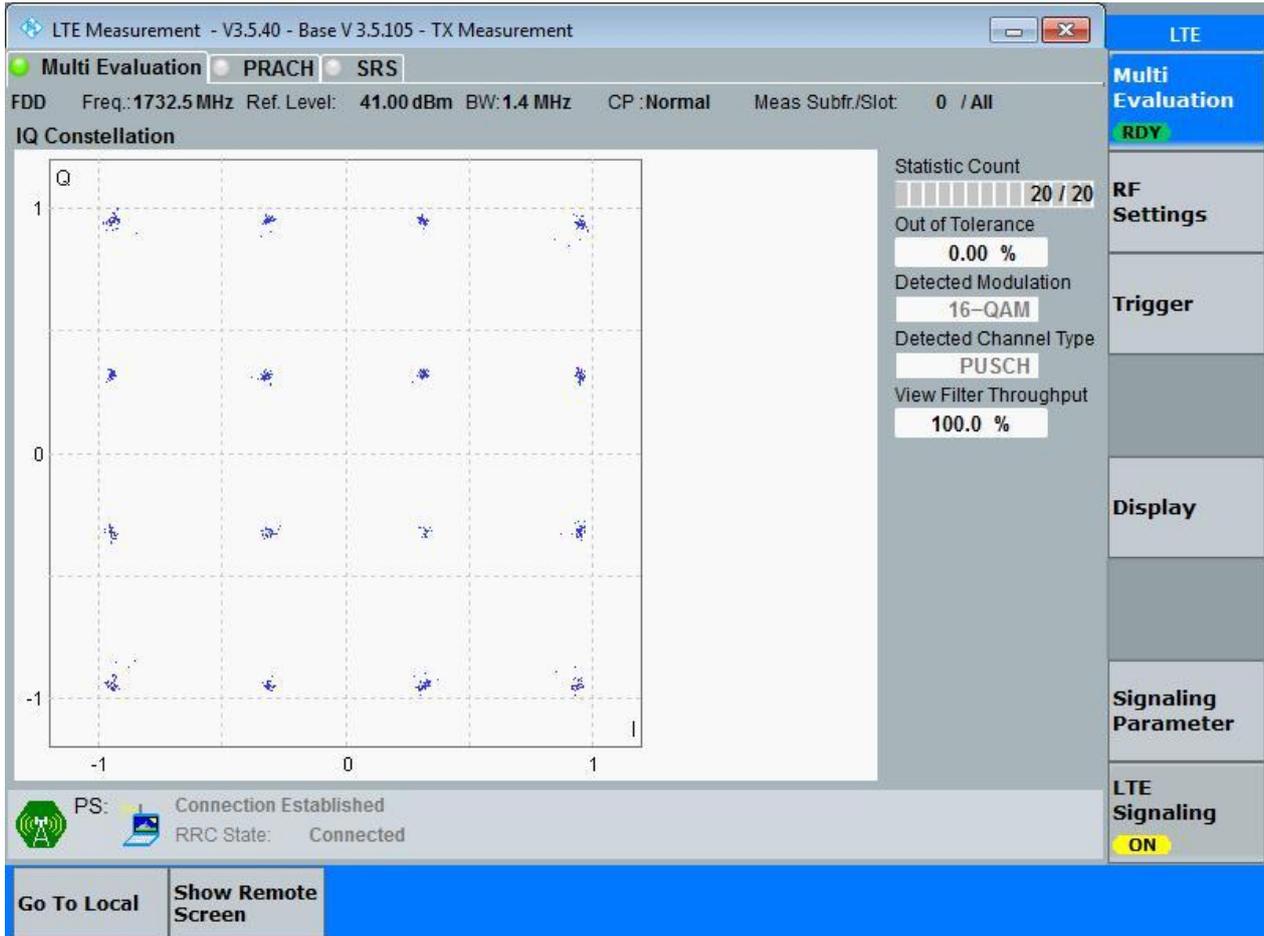
3.3.1.2.2 Test Bandwidth = 3

3.3.1.2.2.1 Test Channel = MCH

3.3.1.2.2.1.1 Test RB = RB15#0
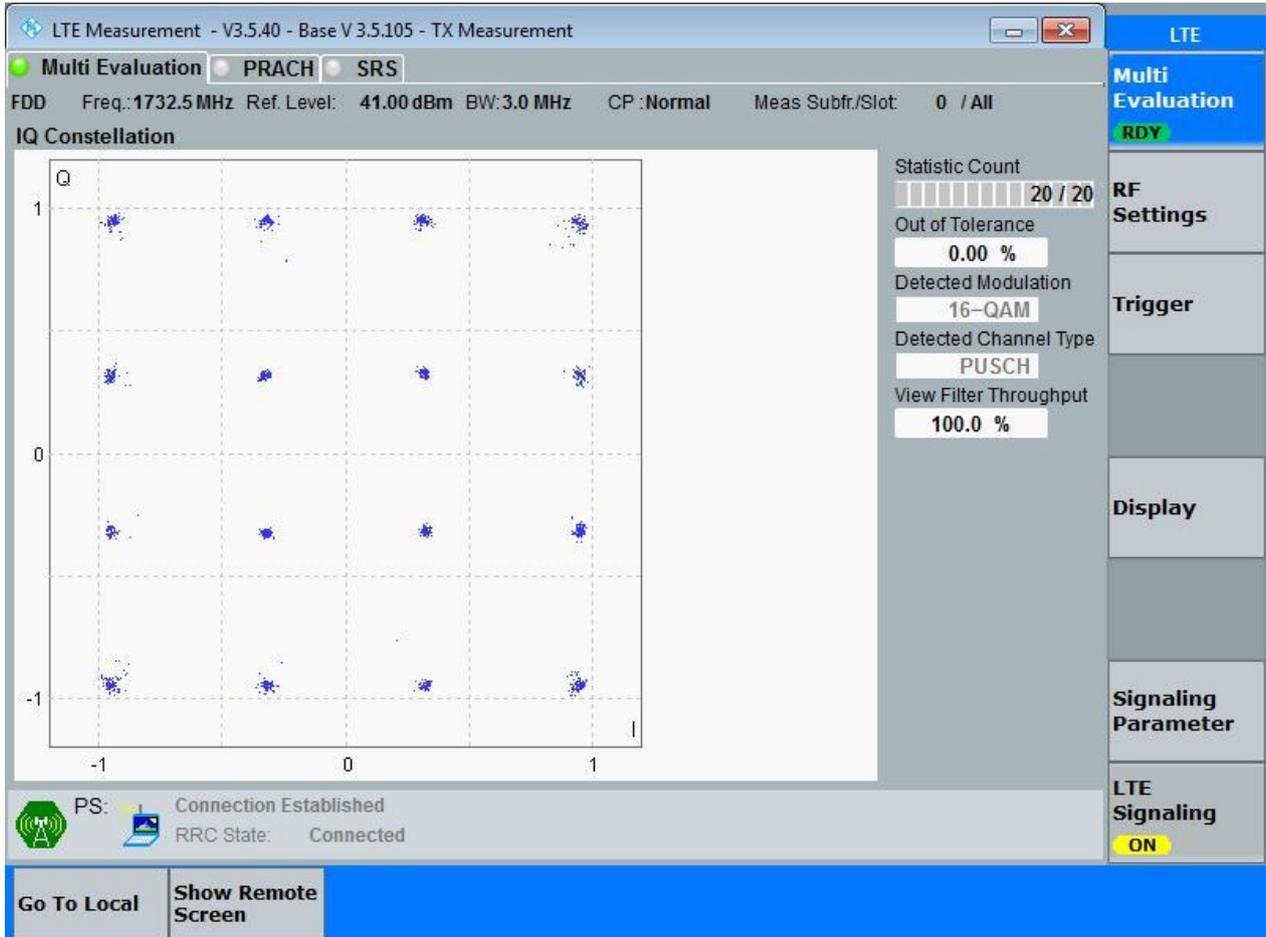
3.3.1.2.3 Test Bandwidth = 5

3.3.1.2.3.1 Test Channel = MCH

3.3.1.2.3.1.1 Test RB = RB25#0
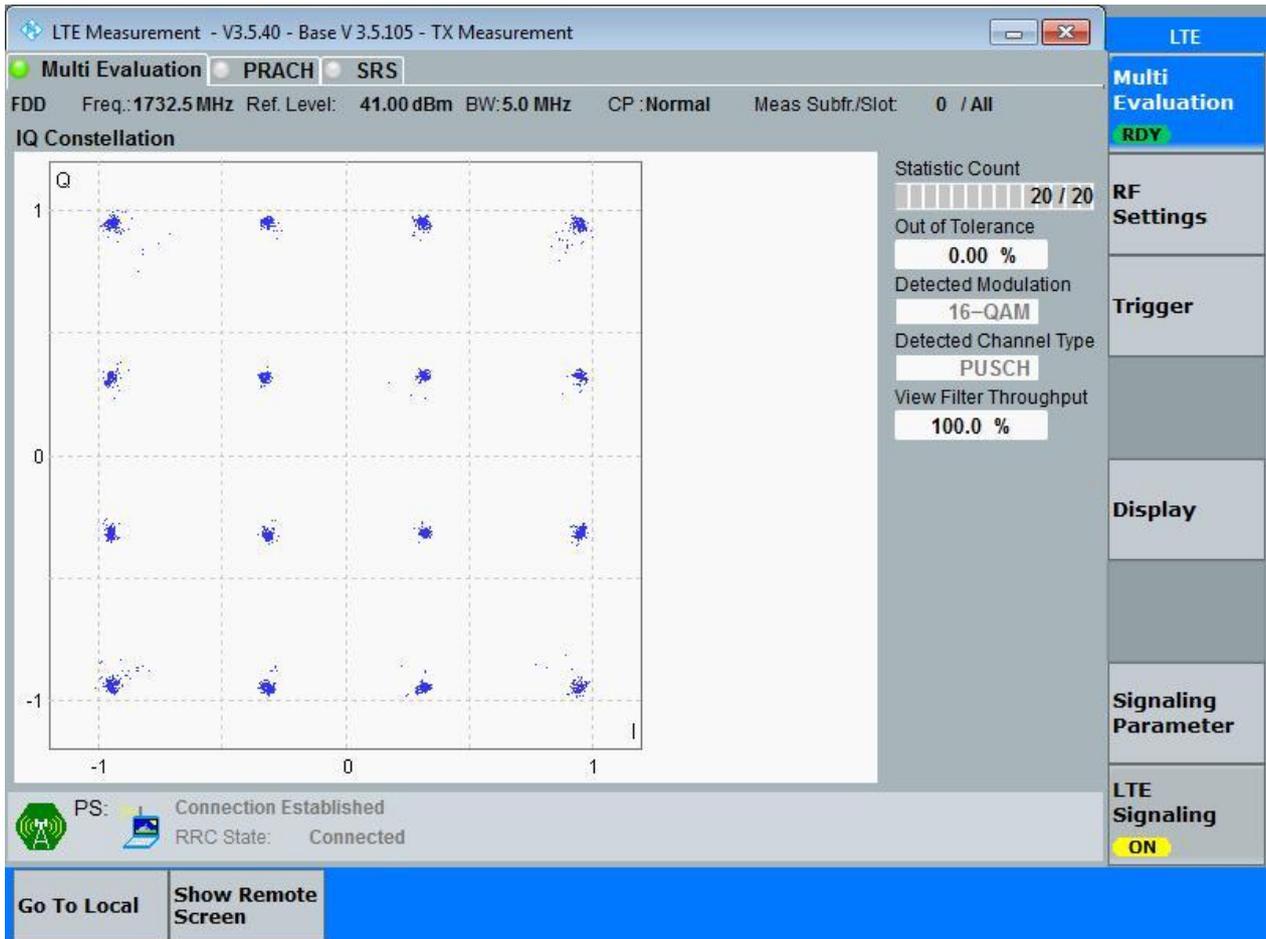
3.3.1.2.4 Test Bandwidth = 10

3.3.1.2.4.1 Test Channel = MCH

3.3.1.2.4.1.1 Test RB = RB50#0
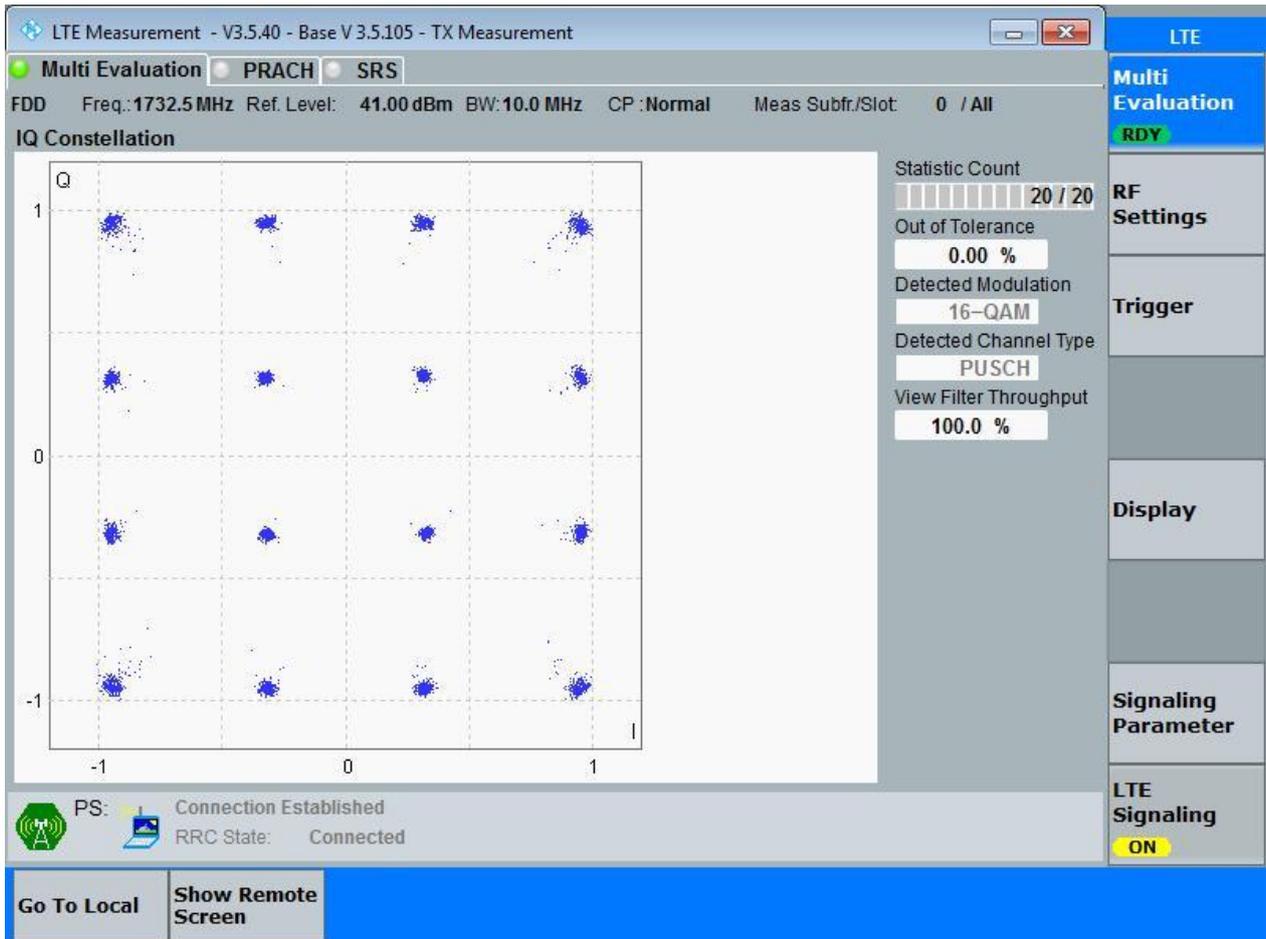
3.3.1.2.5 Test Bandwidth = 15

3.3.1.2.5.1 Test Channel = MCH

3.3.1.2.5.1.1 Test RB = RB75#0
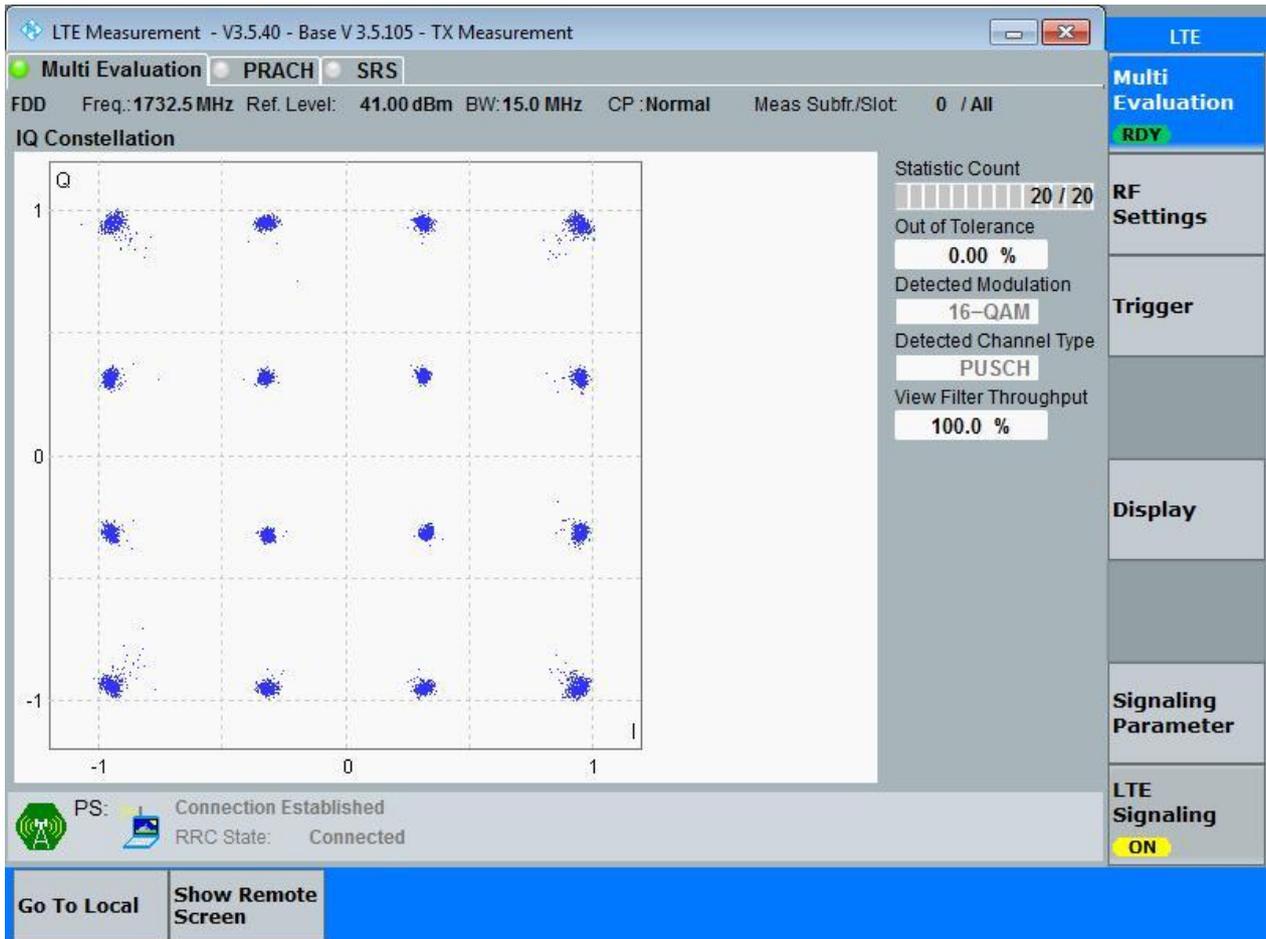
3.3.1.2.6 Test Bandwidth = 20

3.3.1.2.6.1 Test Channel = MCH

3.3.1.2.6.1.1 Test RB = RB100#0
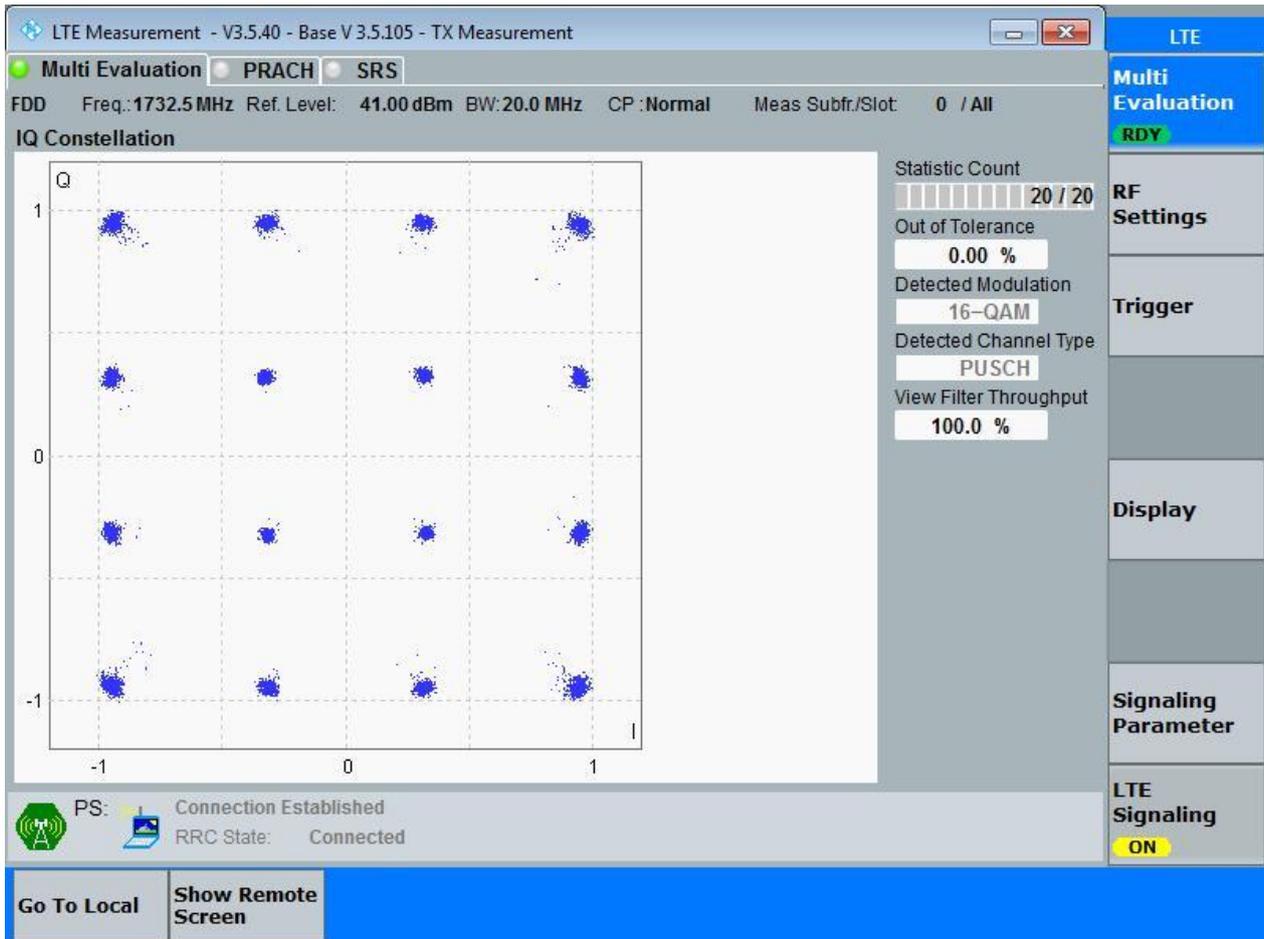
4Appendix_D: Bandwidth

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	1.27	Pass
			MCH	RB6#0	1.09	1.27	Pass
			HCH	RB6#0	1.09	1.26	Pass
		3	LCH	RB15#0	2.70	2.93	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.70	2.96	Pass
		5	LCH	RB25#0	4.50	4.85	Pass
			MCH	RB25#0	4.50	4.84	Pass
			HCH	RB25#0	4.49	4.87	Pass
		10	LCH	RB50#0	8.98	9.58	Pass
			MCH	RB50#0	8.98	9.62	Pass
			HCH	RB50#0	8.97	9.62	Pass
		15	LCH	RB75#0	13.45	14.27	Pass
			MCH	RB75#0	13.44	14.29	Pass
			HCH	RB75#0	13.43	14.25	Pass
		20	LCH	RB100#0	17.89	18.97	Pass
			MCH	RB100#0	17.90	18.95	Pass
			HCH	RB100#0	17.92	19.00	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.29	Pass
			MCH	RB6#0	1.09	1.27	Pass
			HCH	RB6#0	1.09	1.27	Pass
		3	LCH	RB15#0	2.70	2.92	Pass
			MCH	RB15#0	2.70	2.93	Pass
			HCH	RB15#0	2.71	2.95	Pass
		5	LCH	RB25#0	4.49	4.84	Pass
			MCH	RB25#0	4.49	4.88	Pass
			HCH	RB25#0	4.50	4.89	Pass
		10	LCH	RB50#0	8.97	9.60	Pass
			MCH	RB50#0	8.97	9.59	Pass
			HCH	RB50#0	8.98	9.56	Pass
		15	LCH	RB75#0	13.43	14.27	Pass
			MCH	RB75#0	13.44	14.25	Pass
			HCH	RB75#0	13.43	14.28	Pass
		20	LCH	RB100#0	17.91	18.95	Pass
			MCH	RB100#0	17.89	18.95	Pass
			HCH	RB100#0	17.92	19.01	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
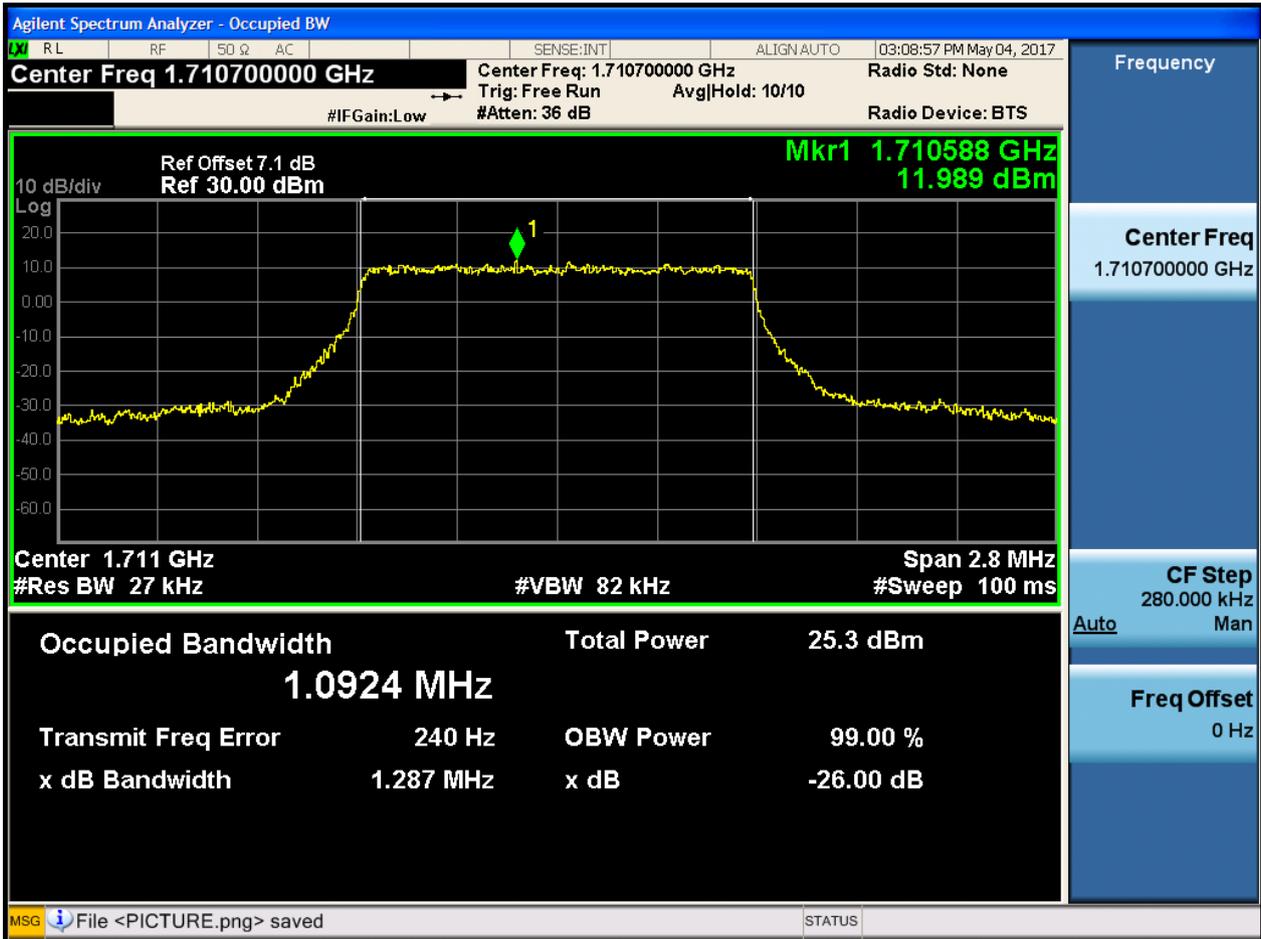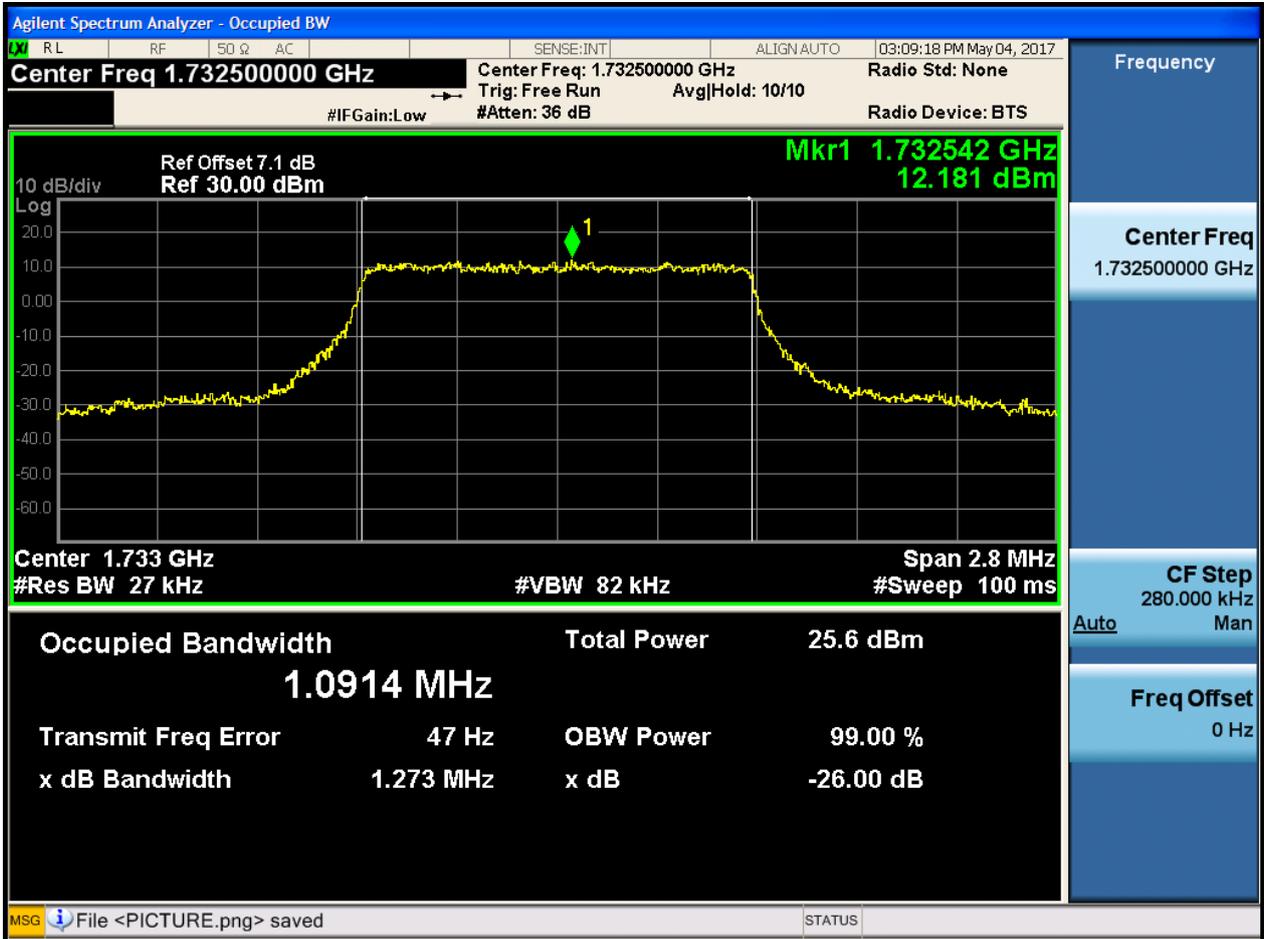
4.1.1.1.1.1.1 Test RB = RB6#0
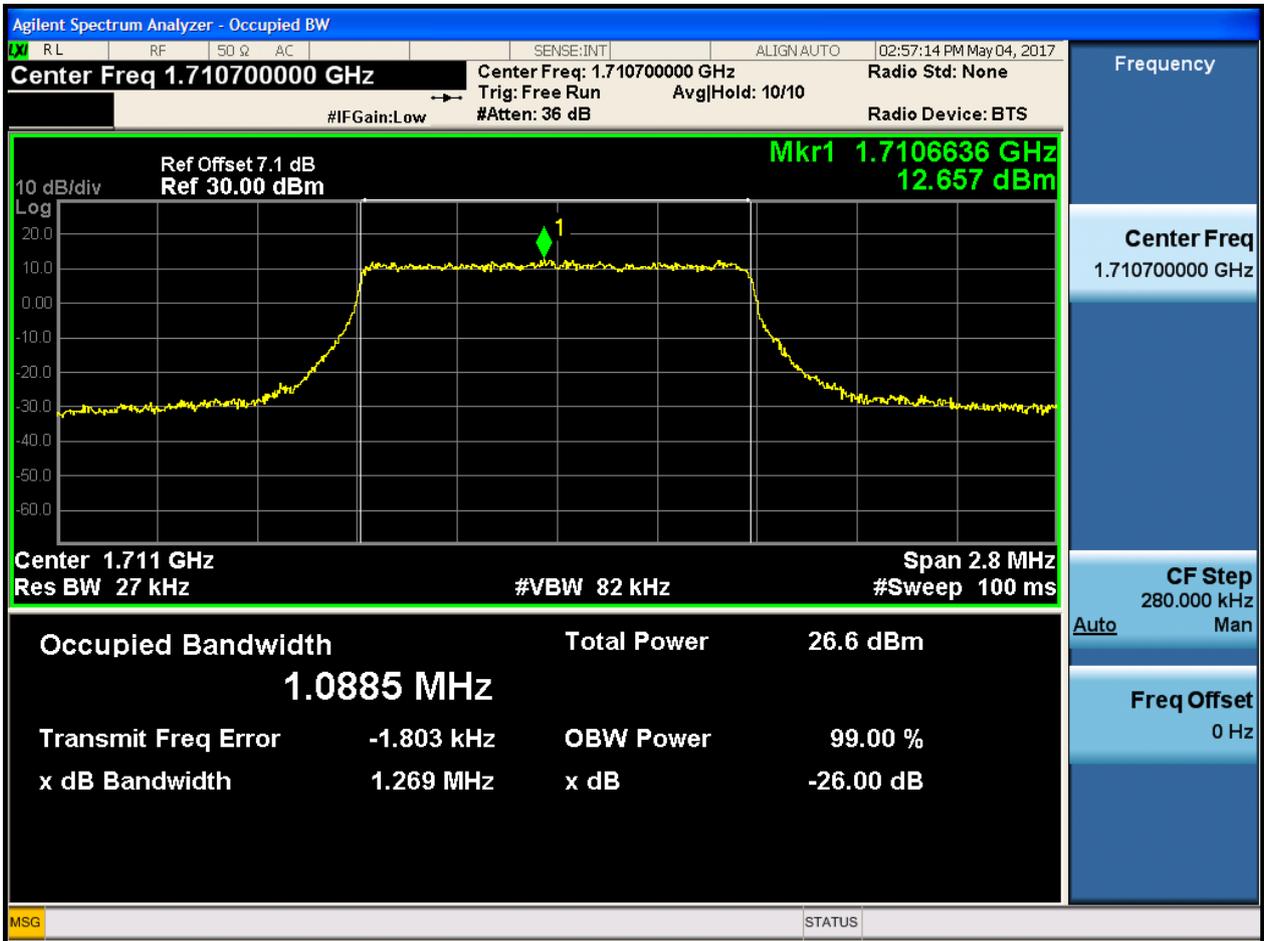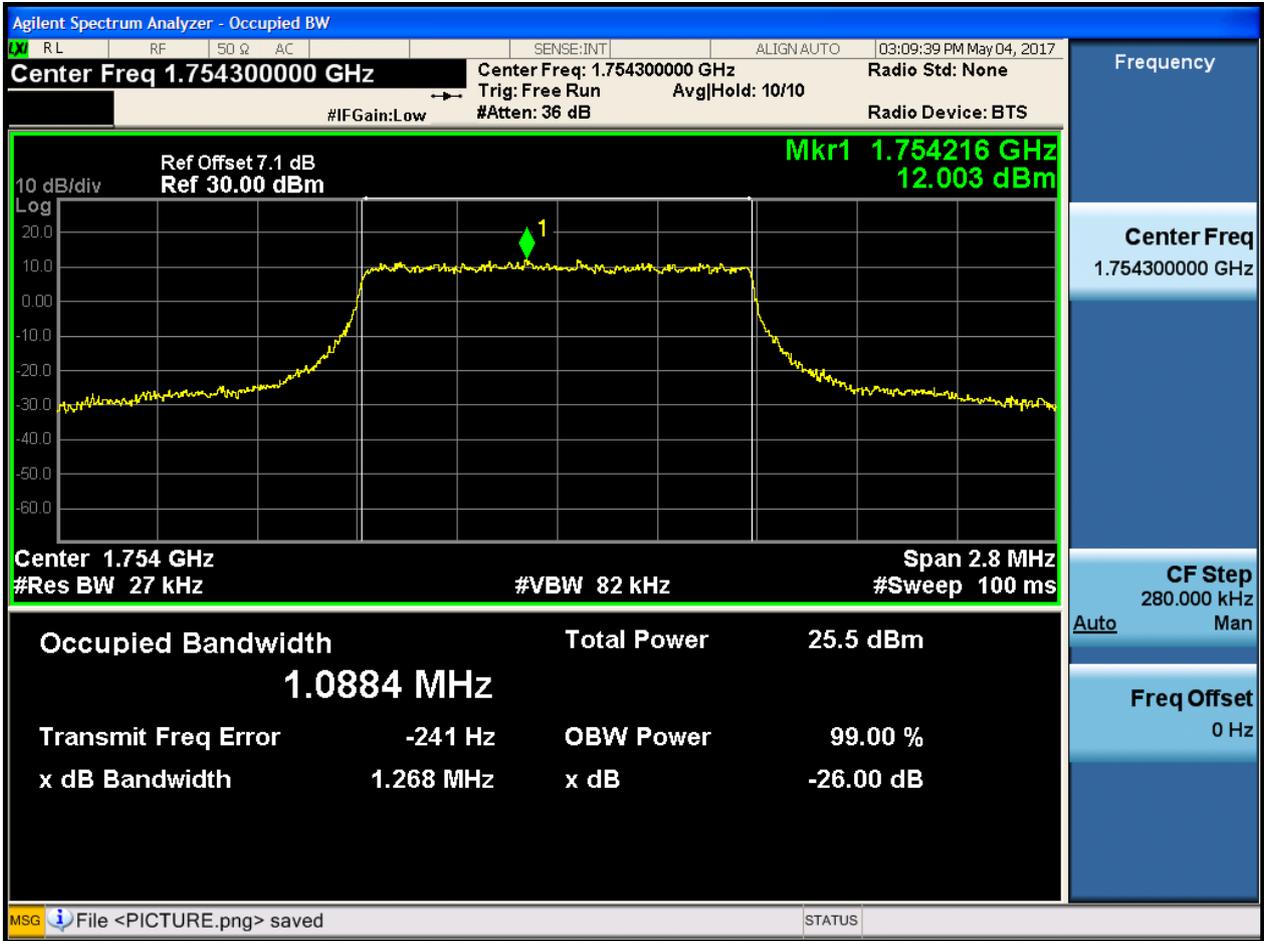
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0
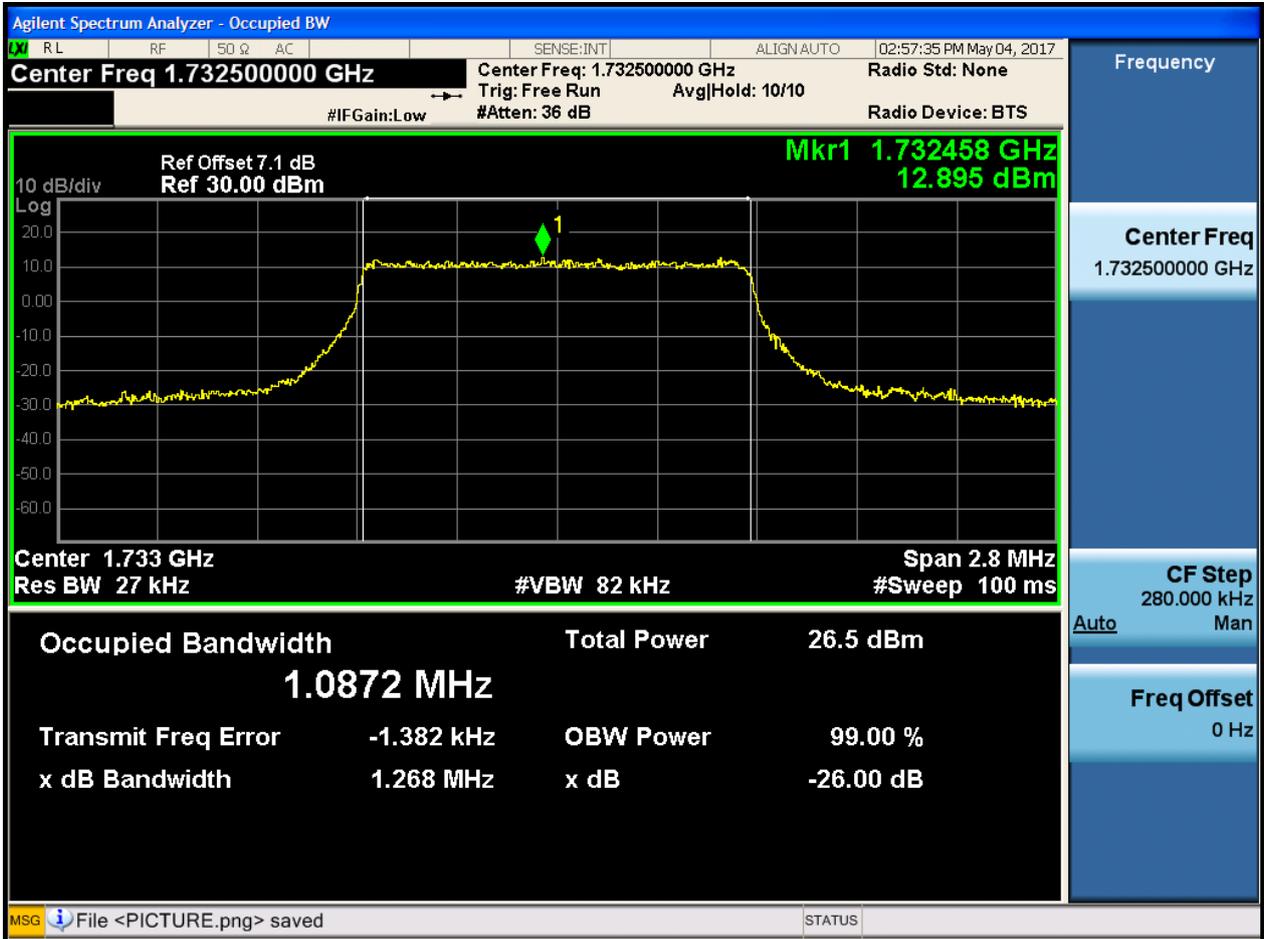
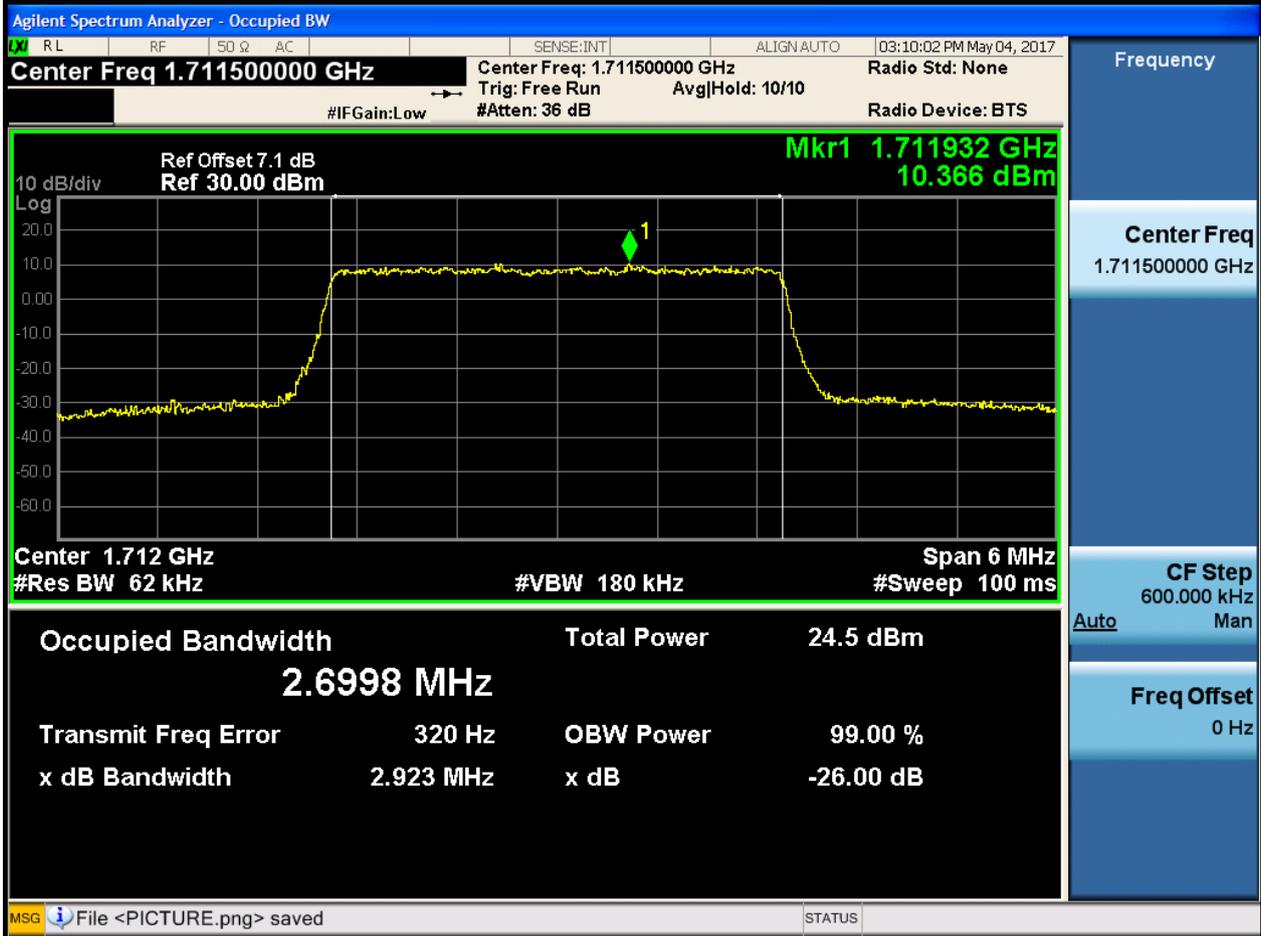**4.1.1.1.1.3 Test Channel = HCH**
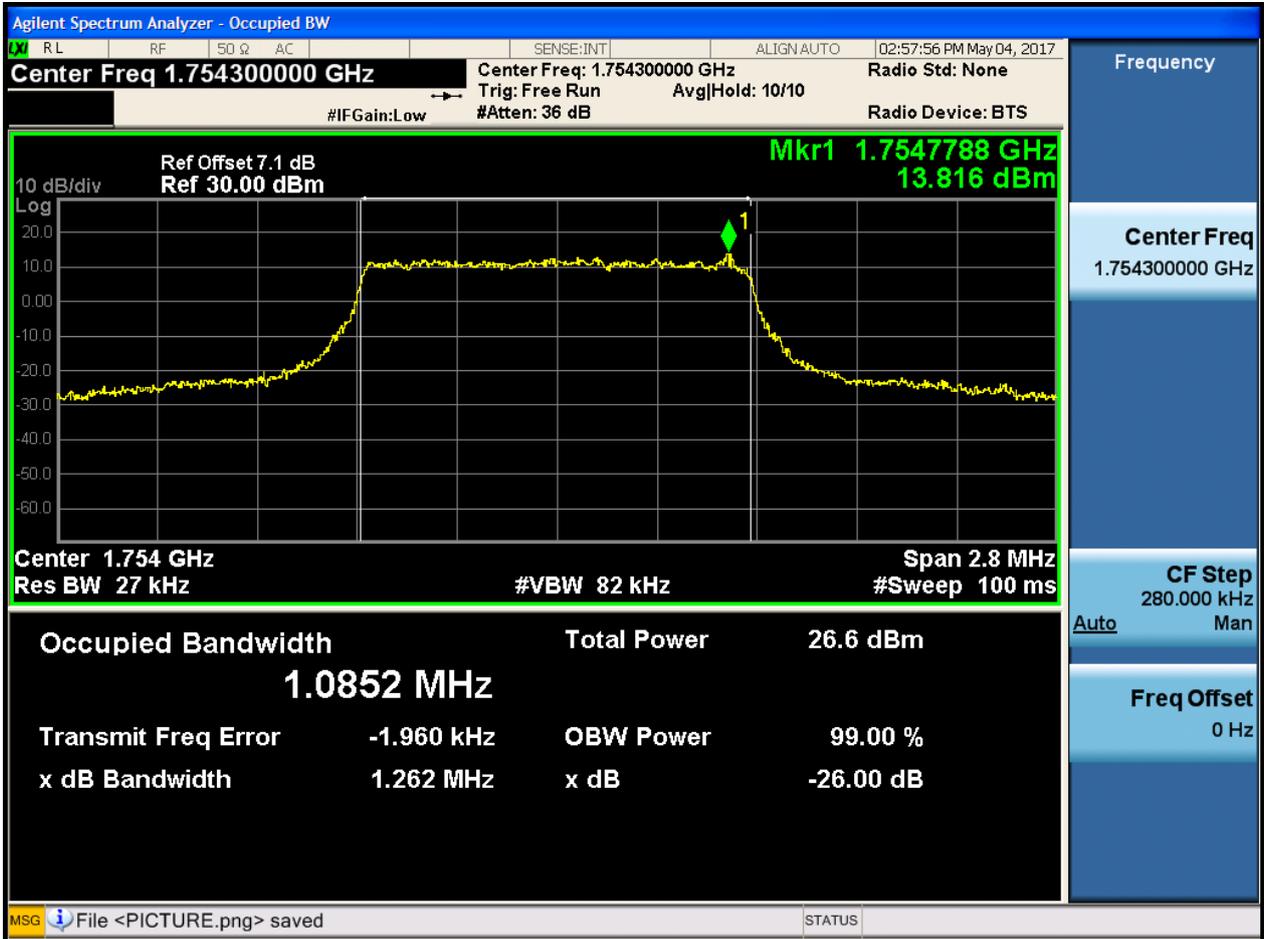
4.1.1.1.3.1 Test RB = RB6#0
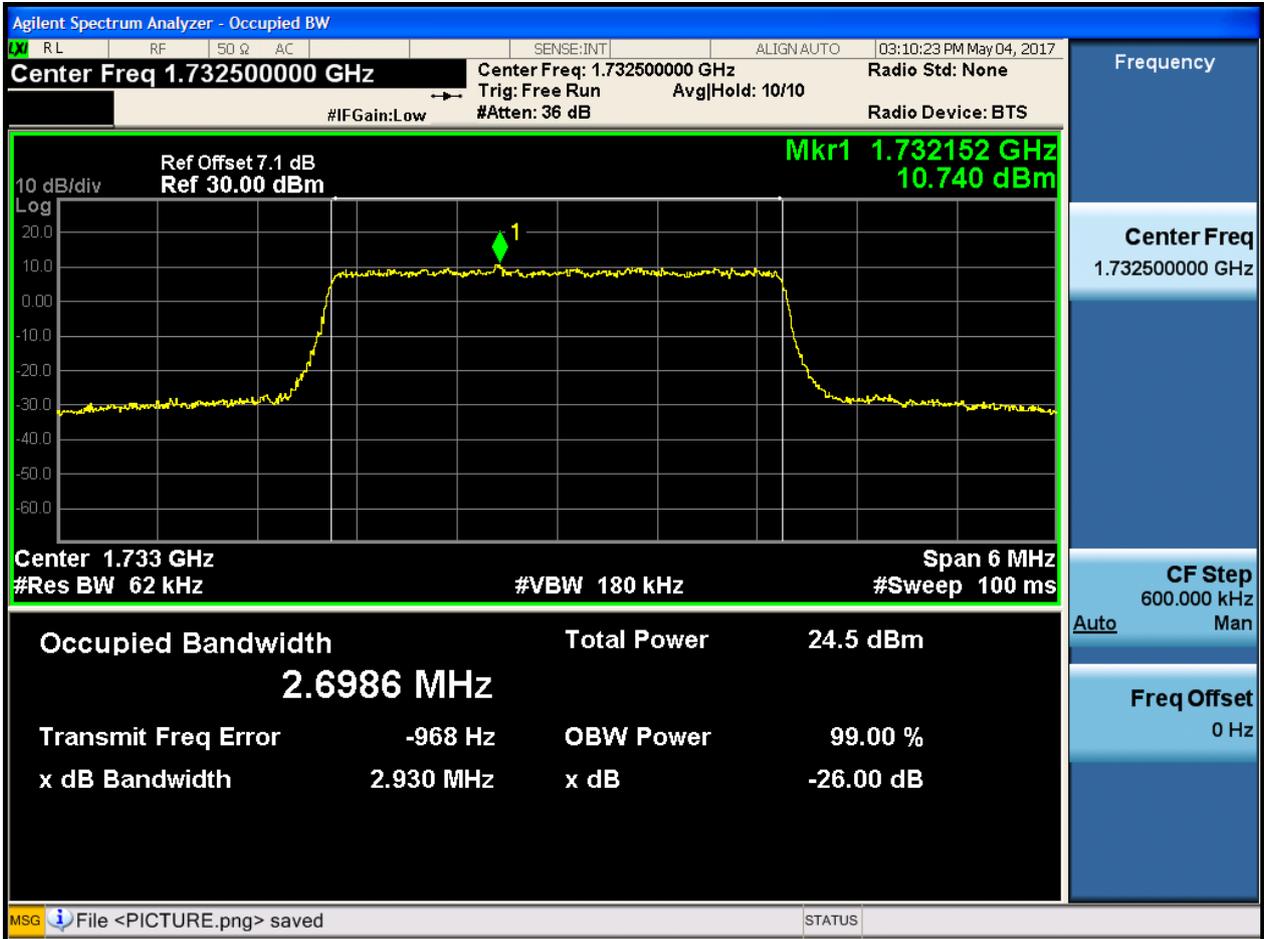
4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

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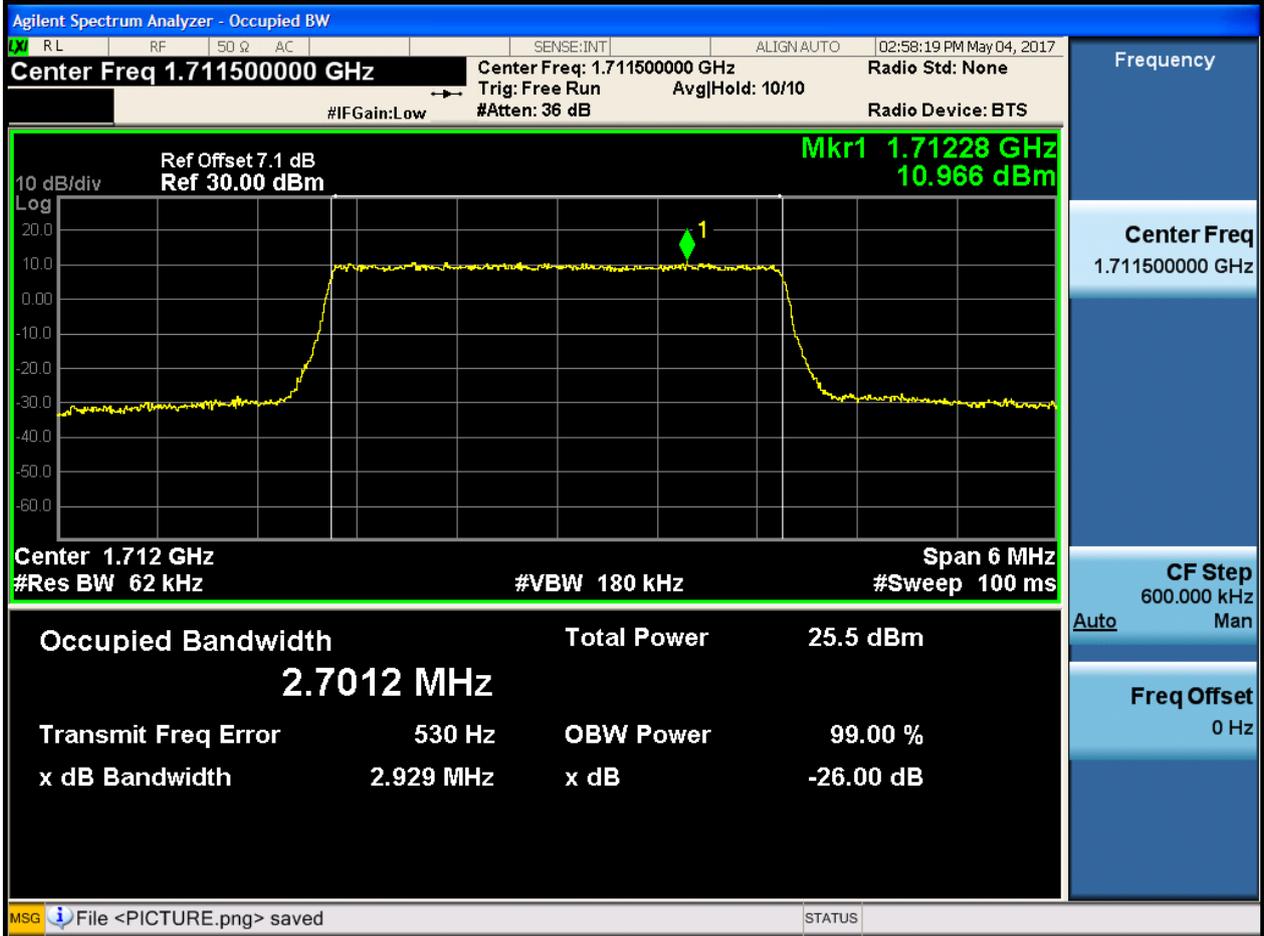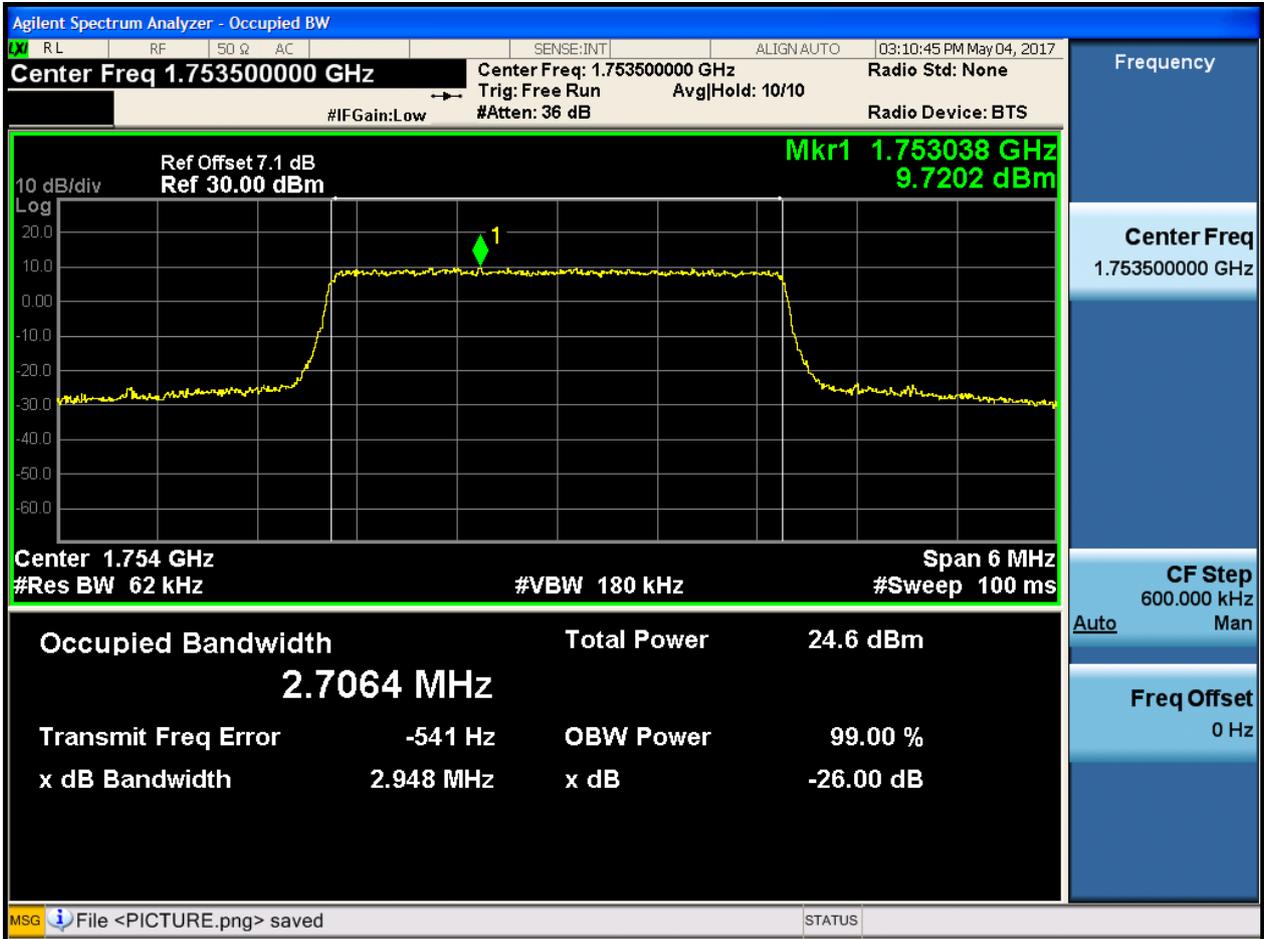
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0

Agilent Spectrum Analyzer - Occupied BW

LXI R L | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 02:58:41 PM May 04, 2017

Center Freq 1.732500000 GHz

Center Freq: 1.732500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low

Radio Std: None
Radio Device: BTS

Frequency

Mkr1 1.733274 GHz
10.914 dBm

Ref Offset 7.1 dB
10 dB/div Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 1.733 GHz
#Res BW 62 kHz
#VBW 180 kHz
Span 6 MHz
#Sweep 100 ms

Center Freq
1.732500000 GHz

CF Step
600.000 kHz
Auto   Man

Freq Offset
0 Hz

Occupied Bandwidth
2.7018 MHz

Total Power   25.4 dBm

Transmit Freq Error   -407 Hz
x dB Bandwidth   2.945 MHz

OBW Power   99.00 %
x dB   -26.00 dB

MSG i File <PICTURE.png> saved   STATUS

4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0
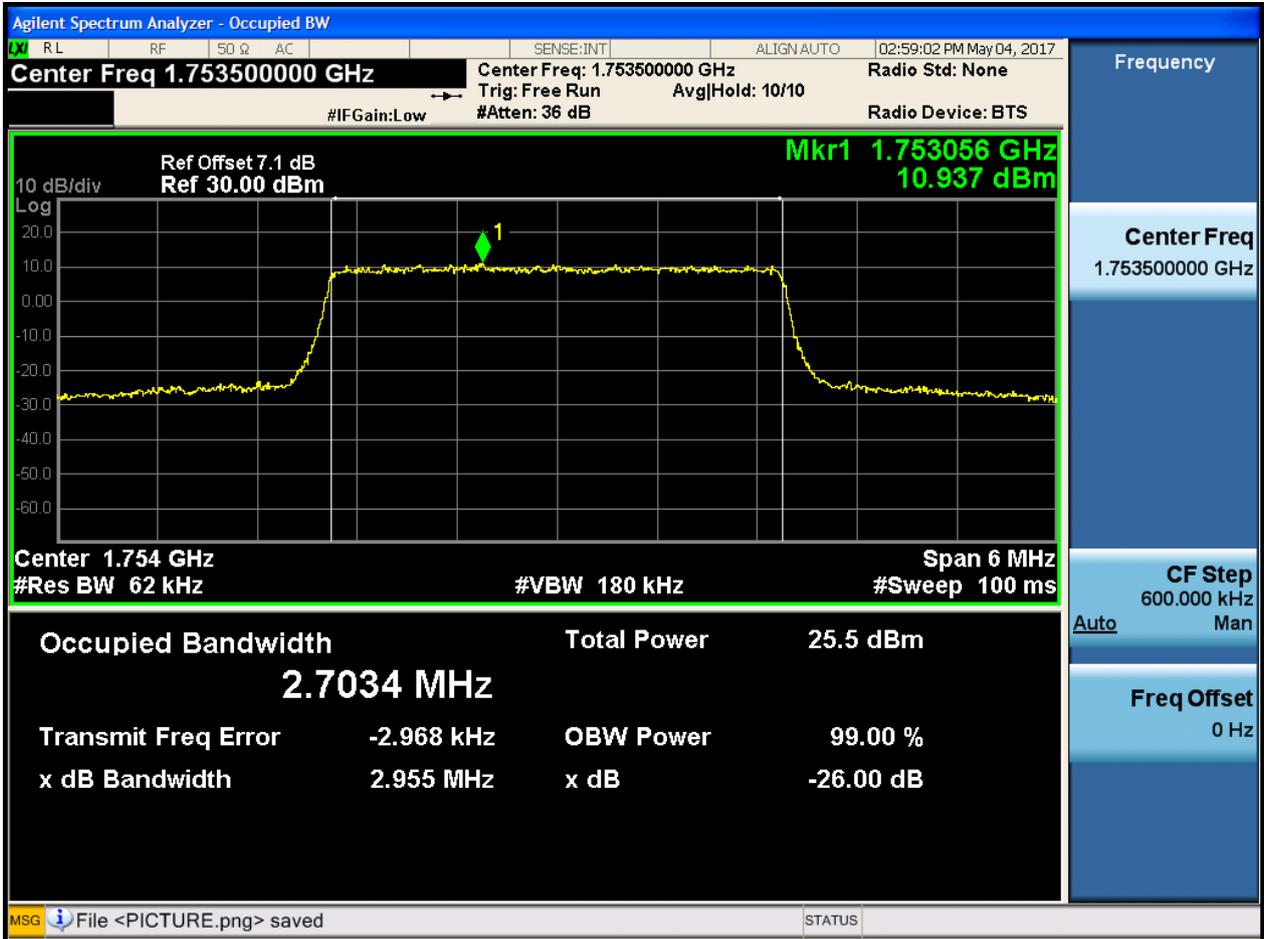
4.1.1.1.3 Test Bandwidth = 5
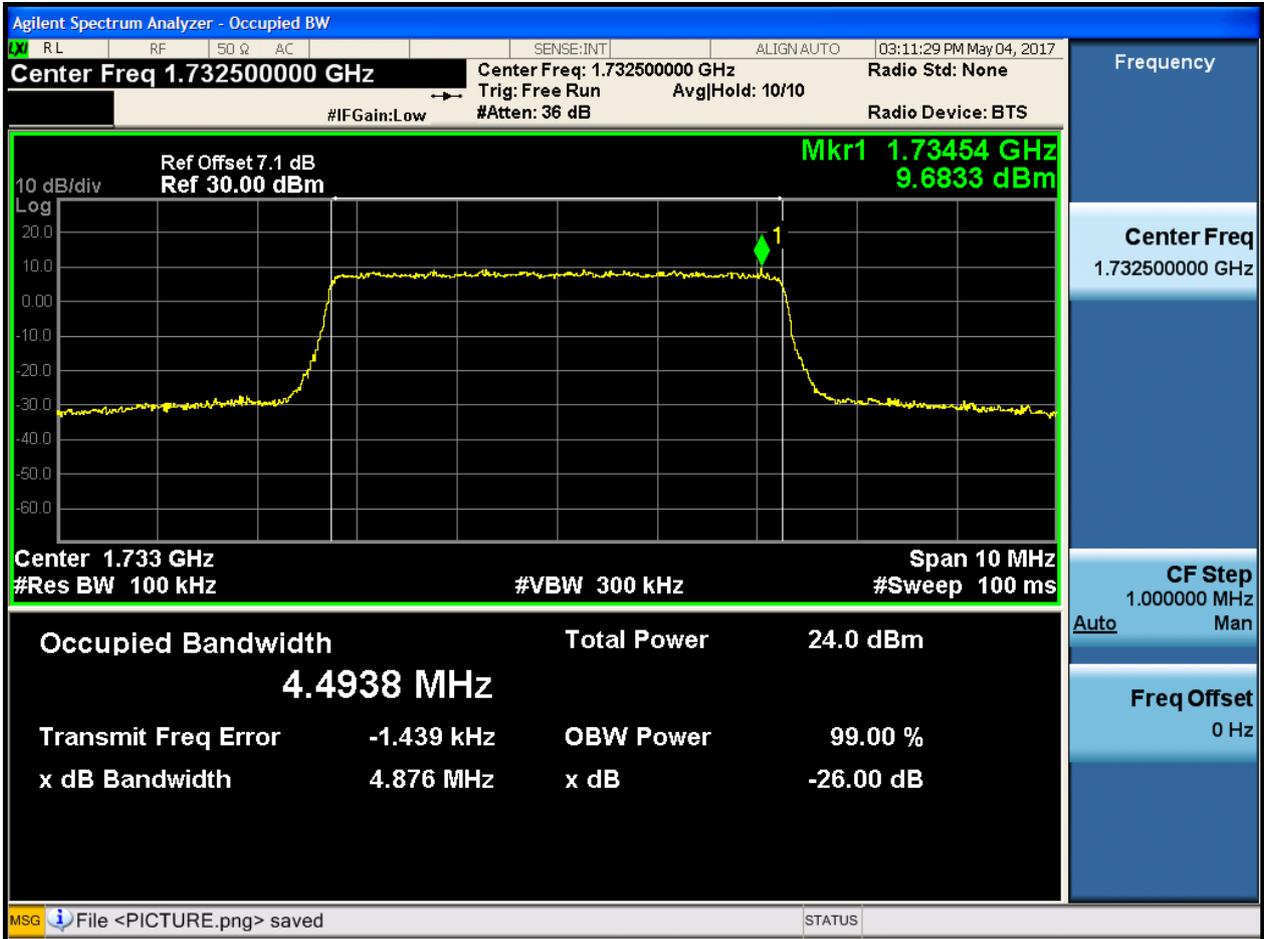
4.1.1.1.3.1 Test Channel = LCH

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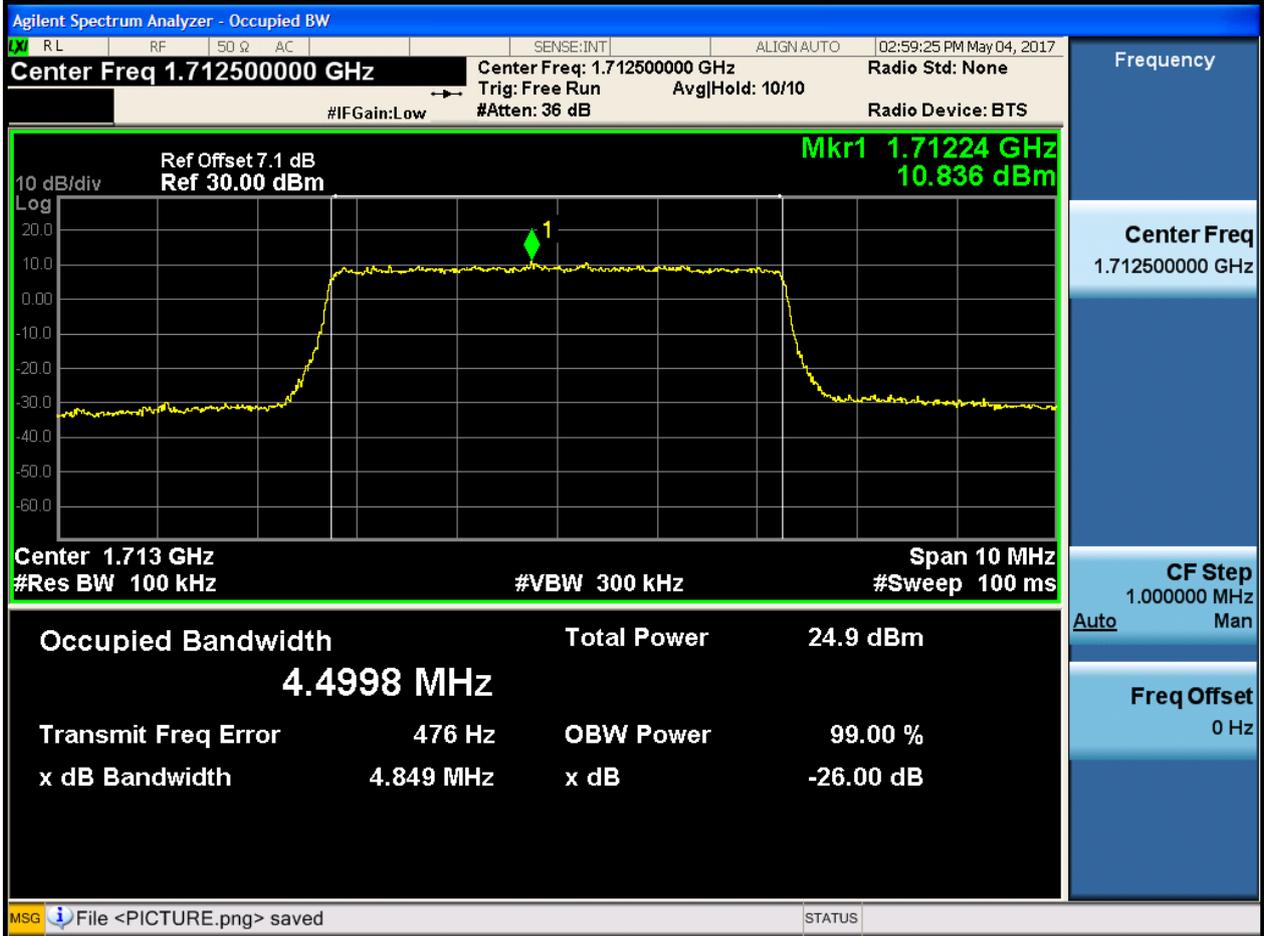
4.1.1.1.3.2 Test Channel = MCH

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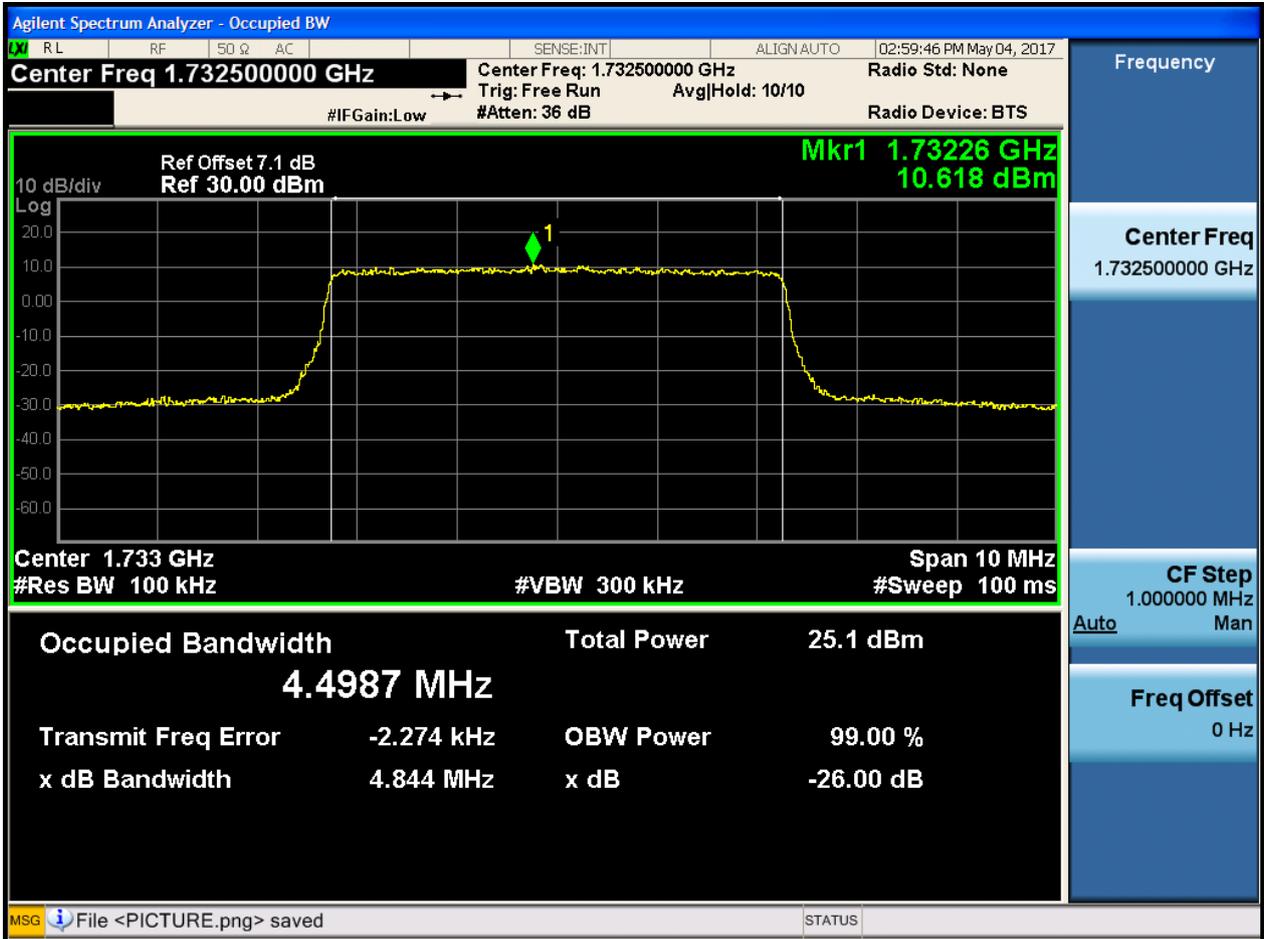
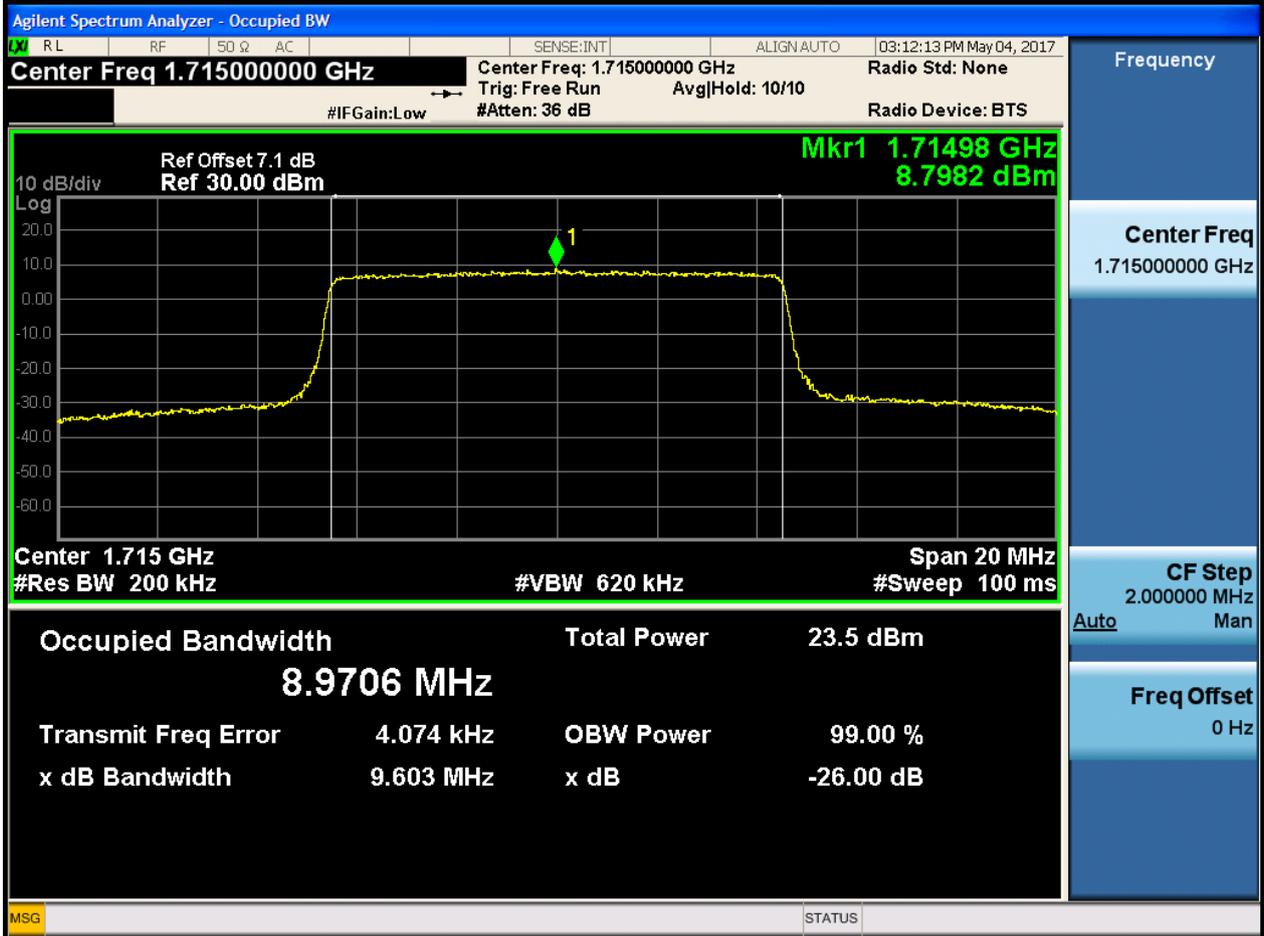## 4.1.1.1.3.3 Test Channel = HCH

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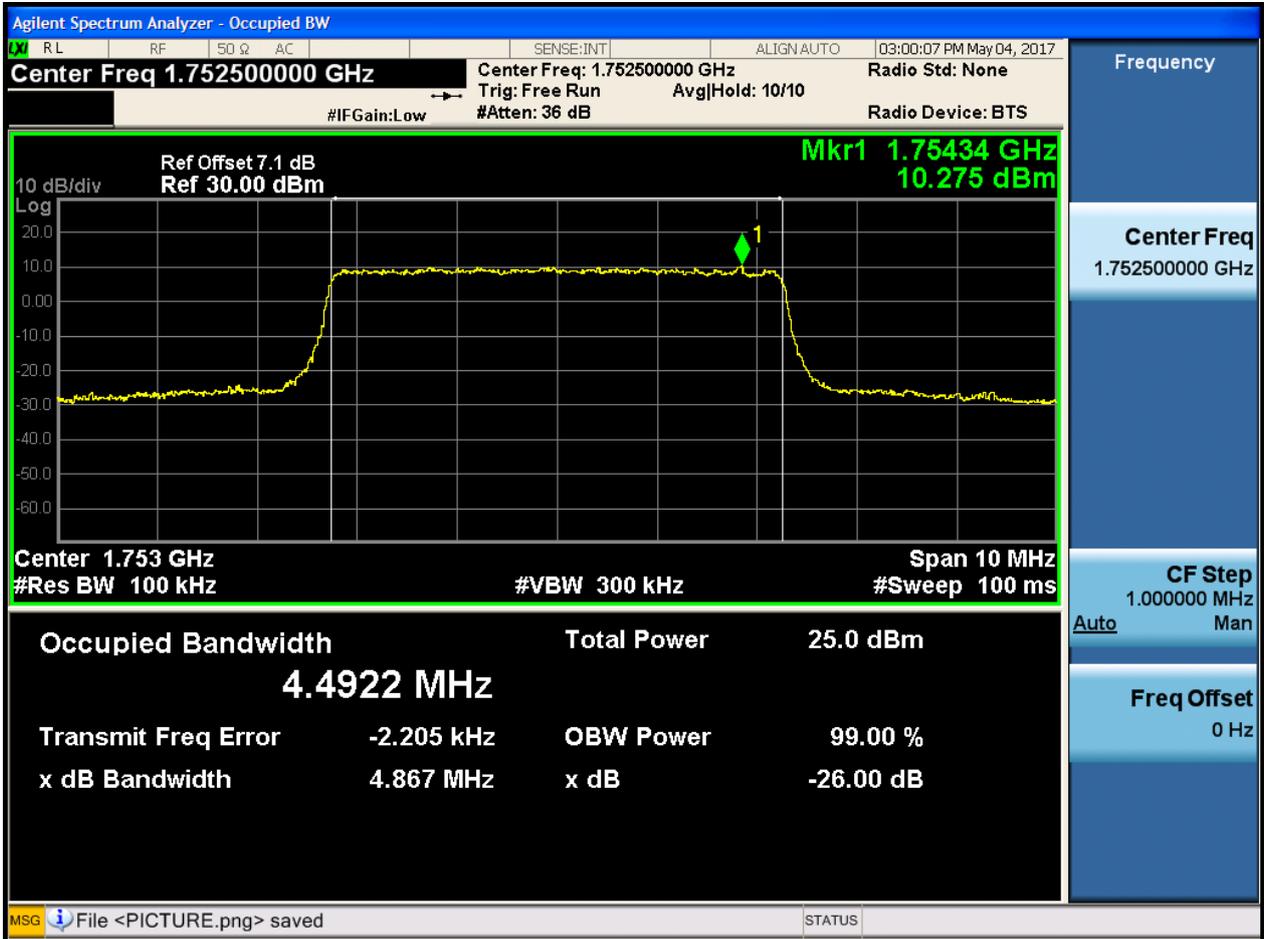
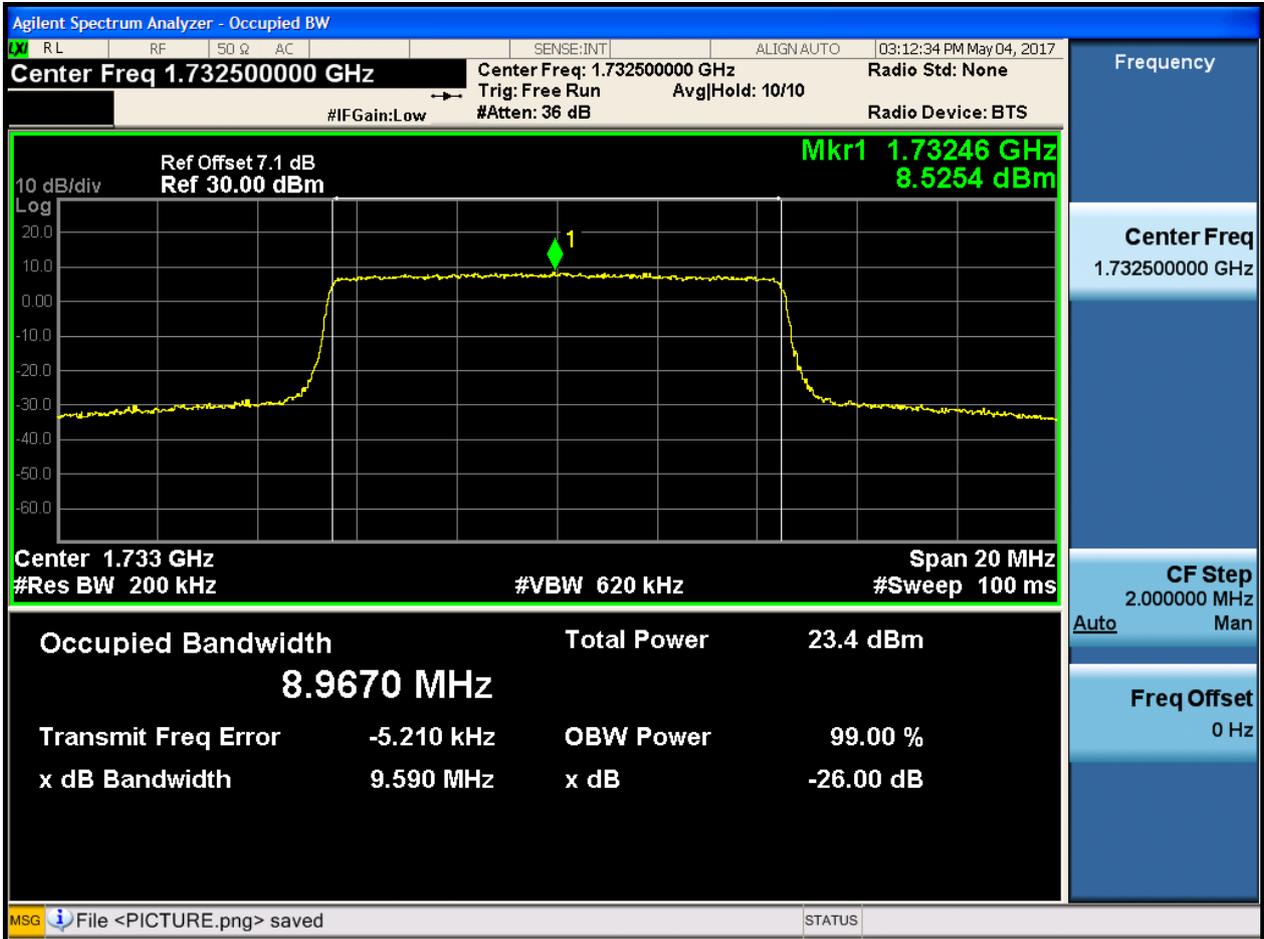### 4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0
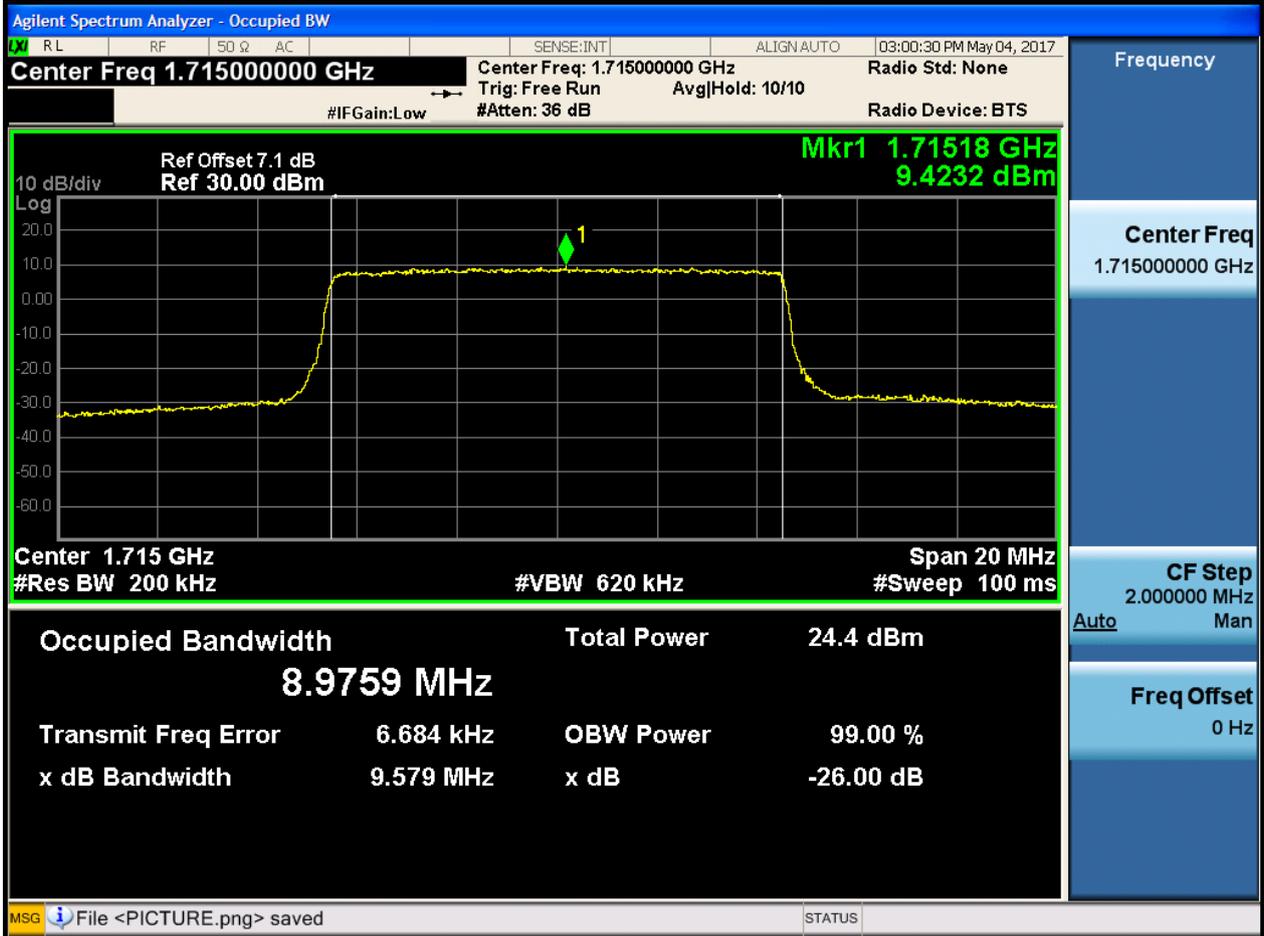
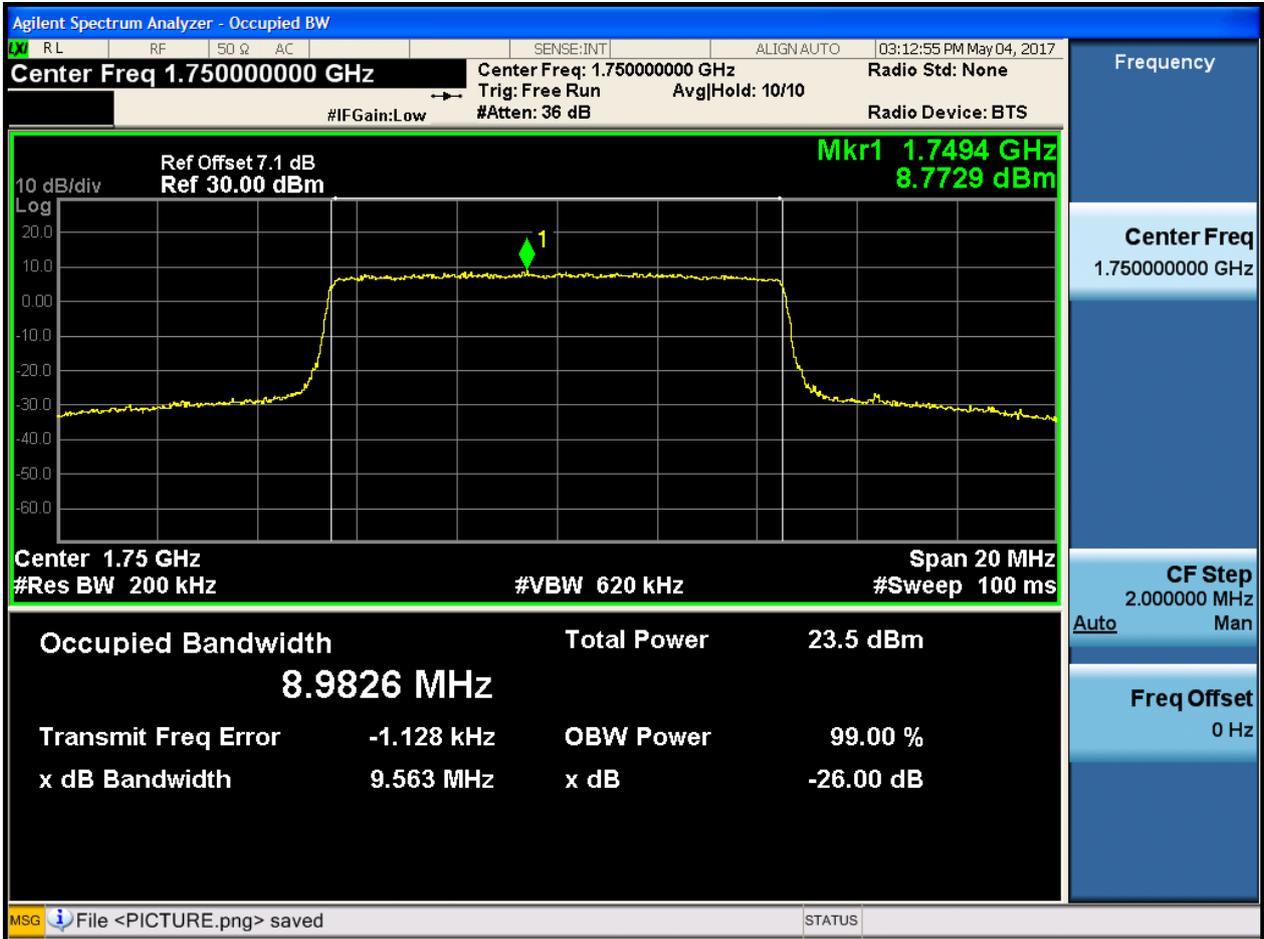## 4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB50#0
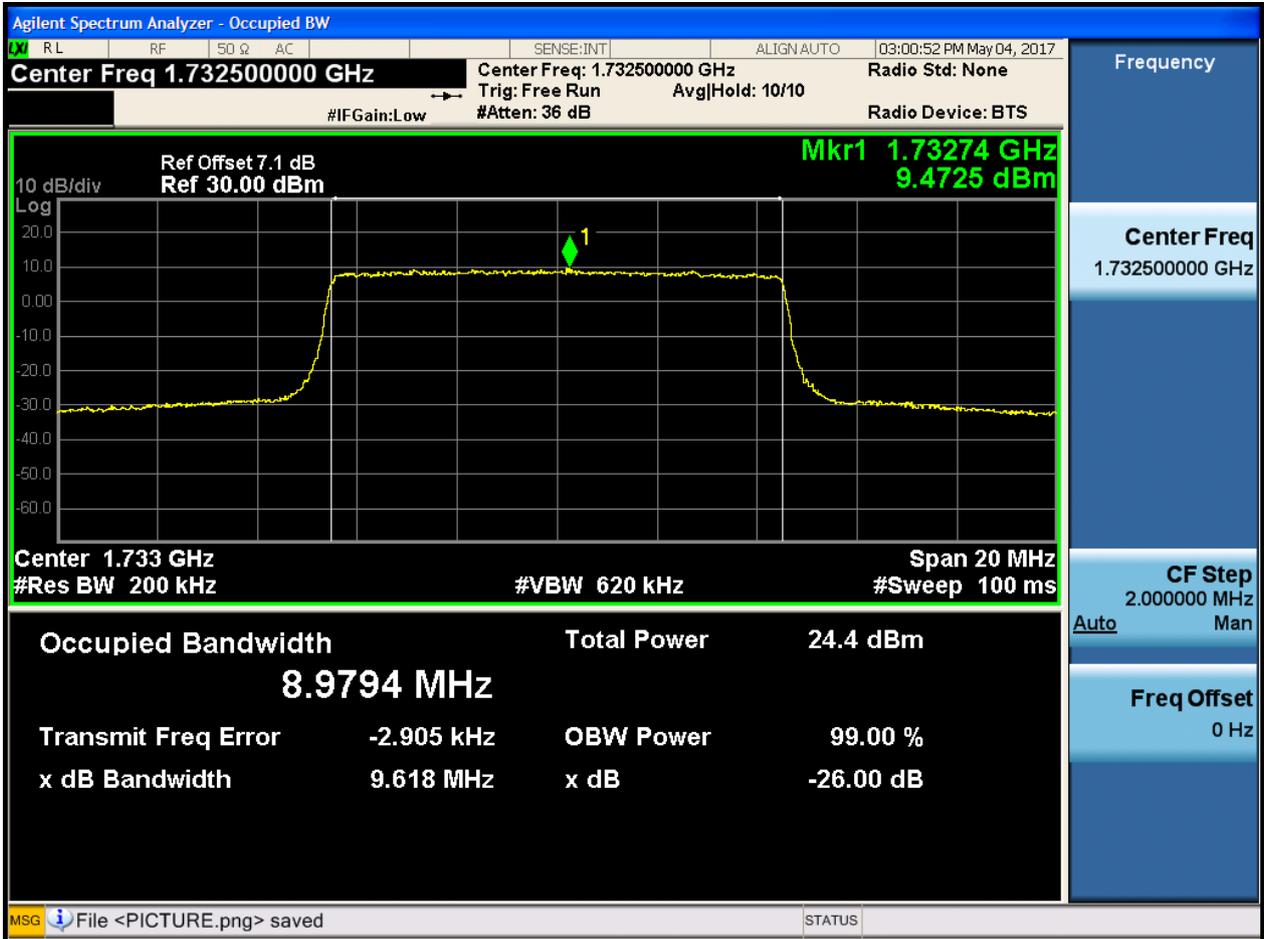
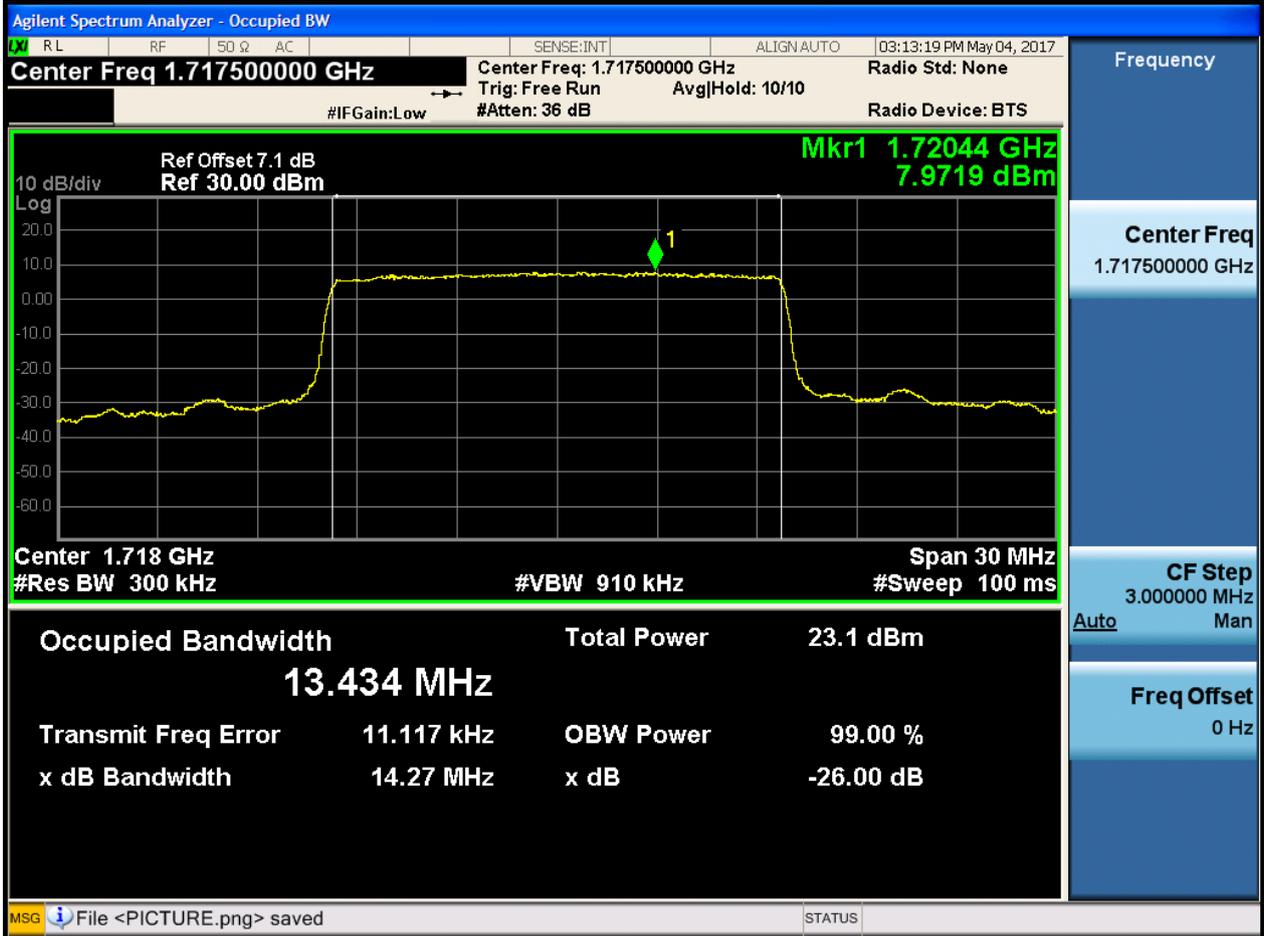**4.1.1.1.4.3 Test Channel = HCH**

4.1.1.1.4.3.1 Test RB = RB50#0
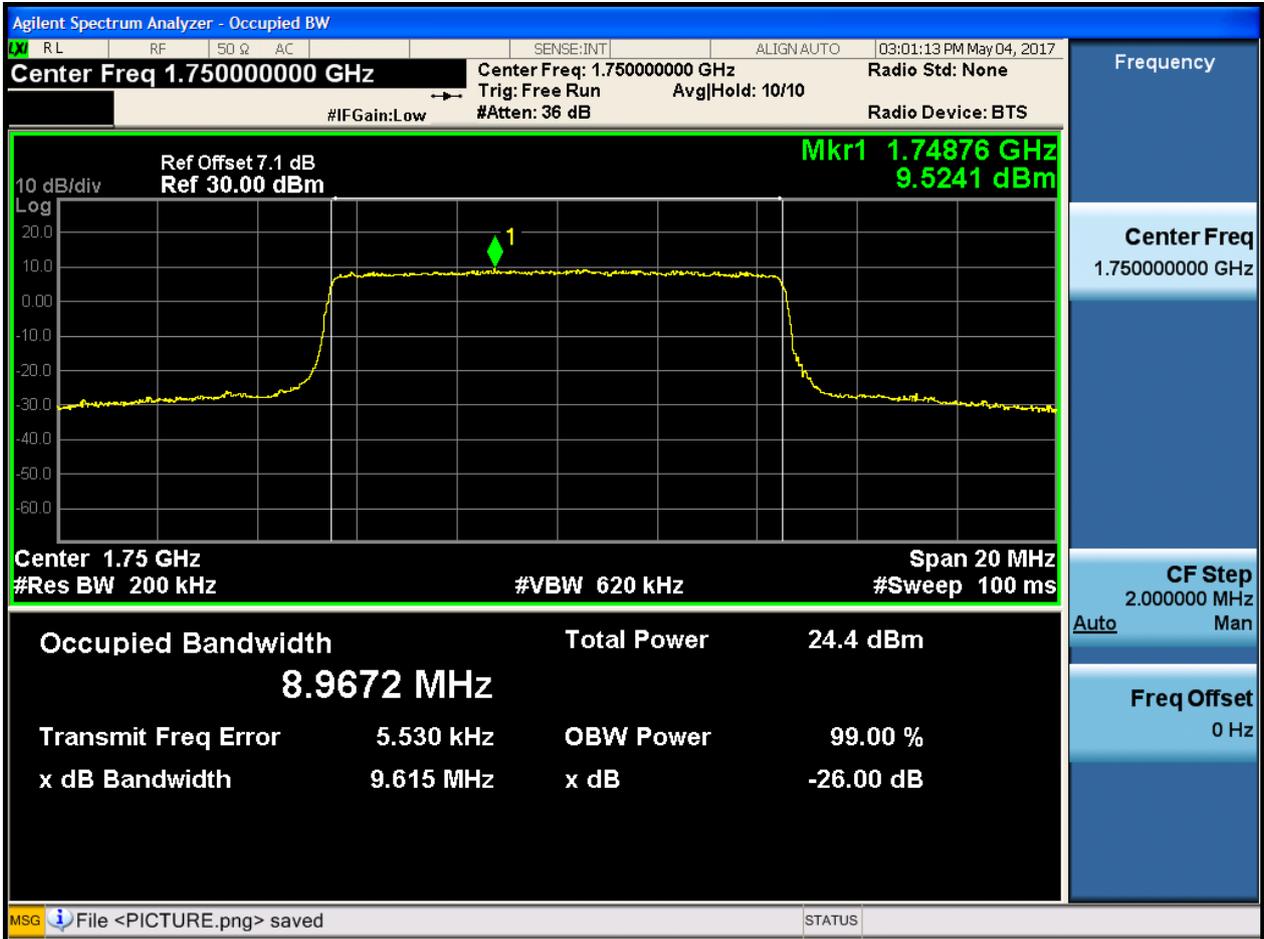
4.1.1.1.5 Test Bandwidth = 15
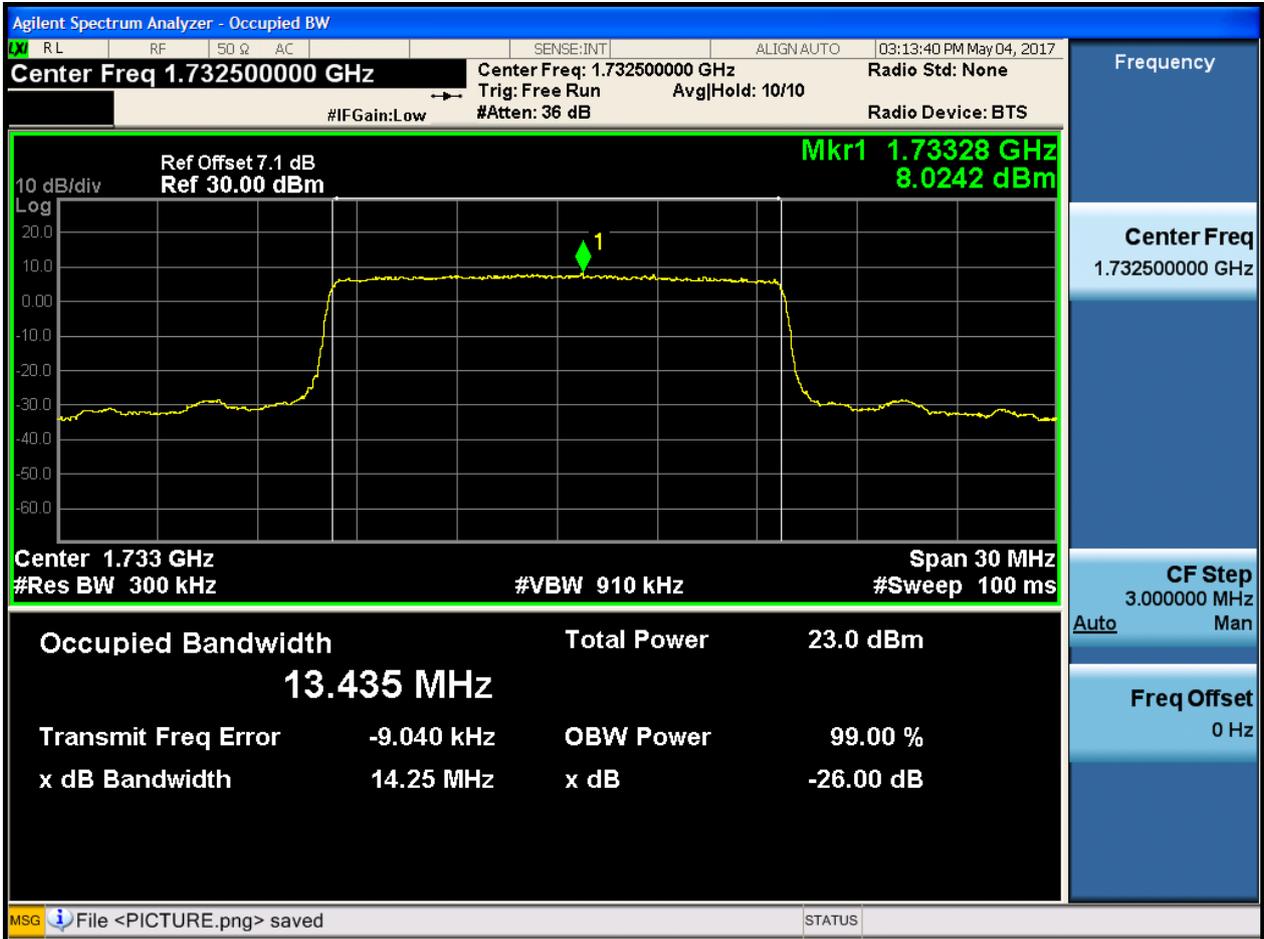
4.1.1.1.5.1 Test Channel = LCH

**4.1.1.1.5.1.1 Test RB = RB75#0**
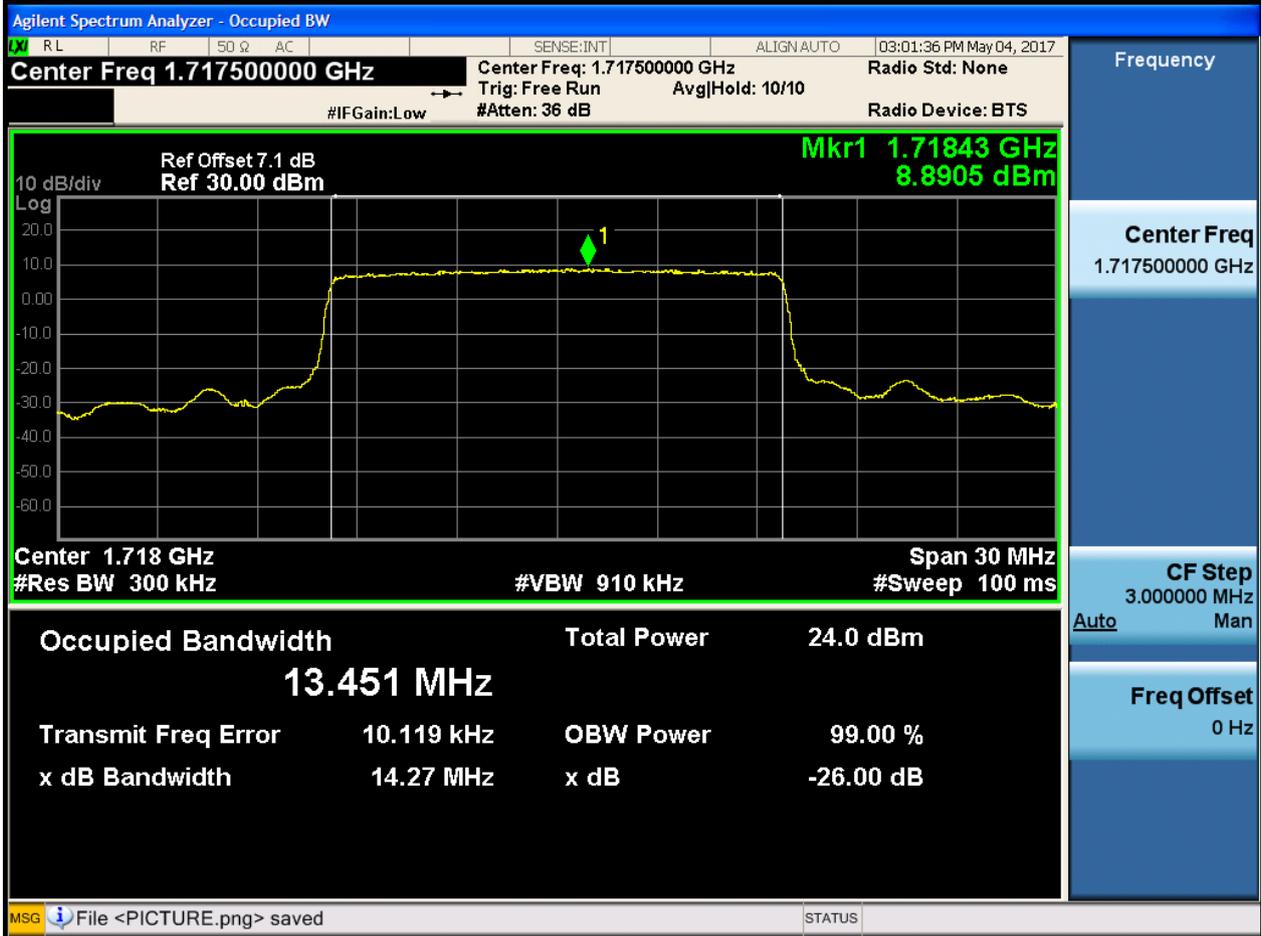
4.1.1.1.5.2 Test Channel = MCH

4.1.1.1.5.2.1 Test RB = RB75#0
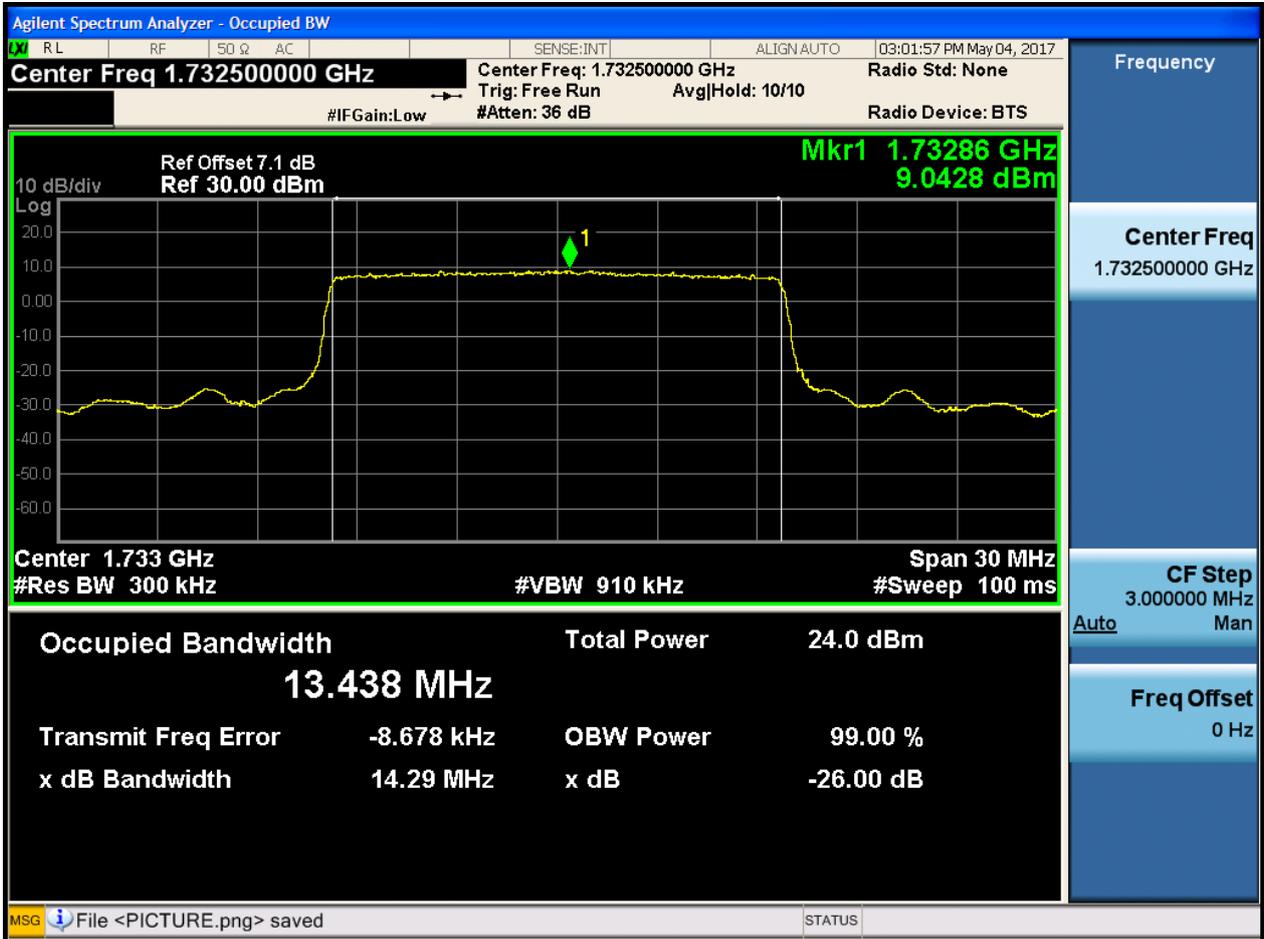
4.1.1.1.5.3 Test Channel = HCH

4.1.1.1.5.3.1 Test RB = RB75#0

Agilent Spectrum Analyzer - Occupied BW	

Agilent Spectrum Analyzer - Occupied BW

LXI R L   RF   50 Ω   AC   SENSE:INT   ALIGN AUTO   03:02:18 PM May 04, 2017

Center Freq 1.747500000 GHz

Center Freq: 1.747500000 GHz   Radio Std: None

#IFGain:Low   Trig: Free Run   Avg|Hold: 10/10

#Atten: 36 dB   Radio Device: BTS

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

**Mkr1 1.74588 GHz
9.4964 dBm**

Center 1.748 GHz   Span 30 MHz
#Res BW 300 kHz   #VBW 910 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	24.2 dBm
13.434 MHz			
Transmit Freq Error	3.171 kHz	OBW Power	99.00 %
x dB Bandwidth	14.25 MHz	x dB	-26.00 dB

MSG i File <PICTURE.png> saved   STATUS

Frequency

Center Freq
1.747500000 GHz

CF Step
3.000000 MHz
Auto   Man

Freq Offset
0 Hz

4.1.1.1.6 Test Bandwidth = 20
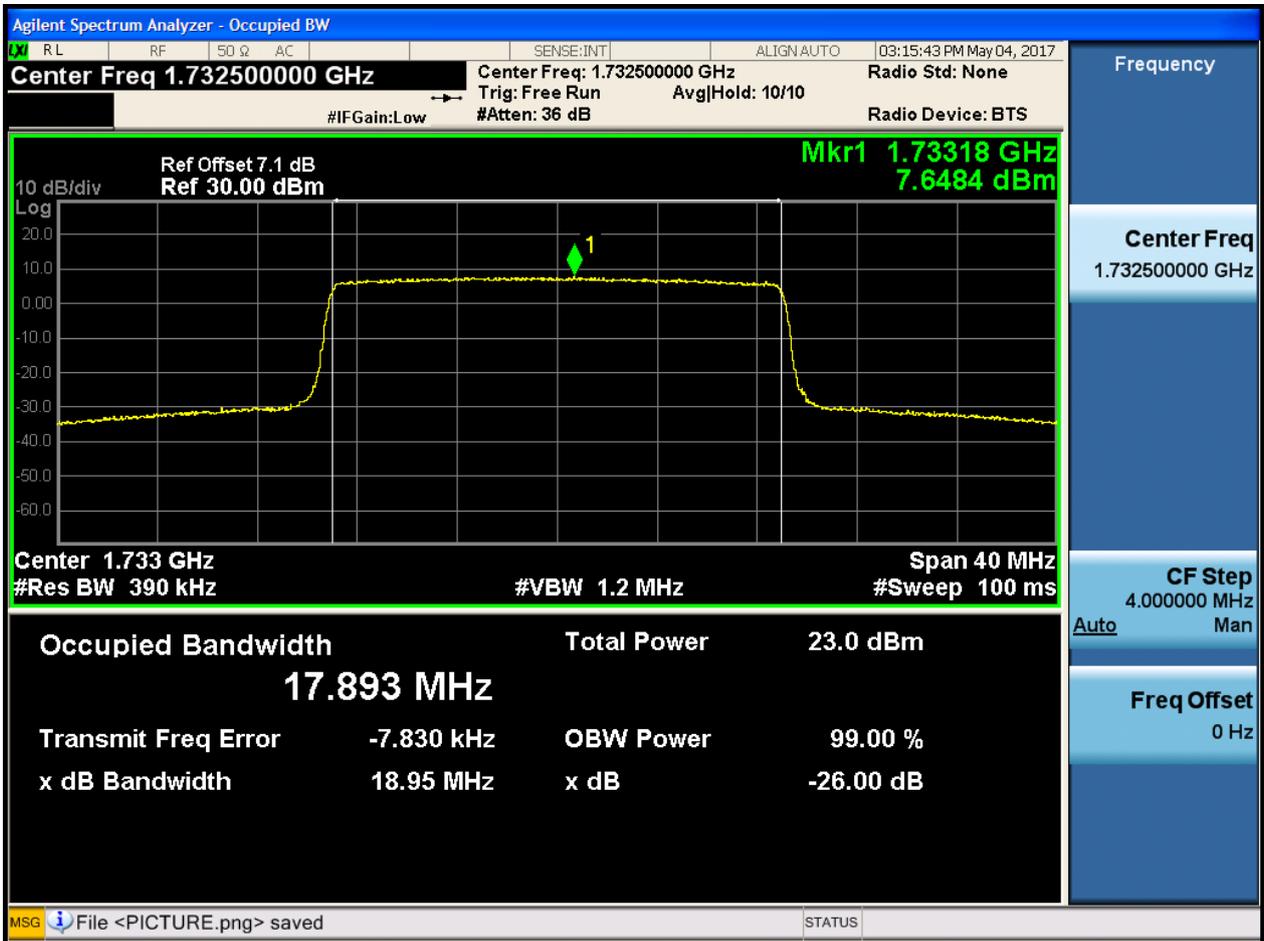
4.1.1.1.6.1 Test Channel = LCH

4.1.1.1.6.1.1 Test RB = RB100#0
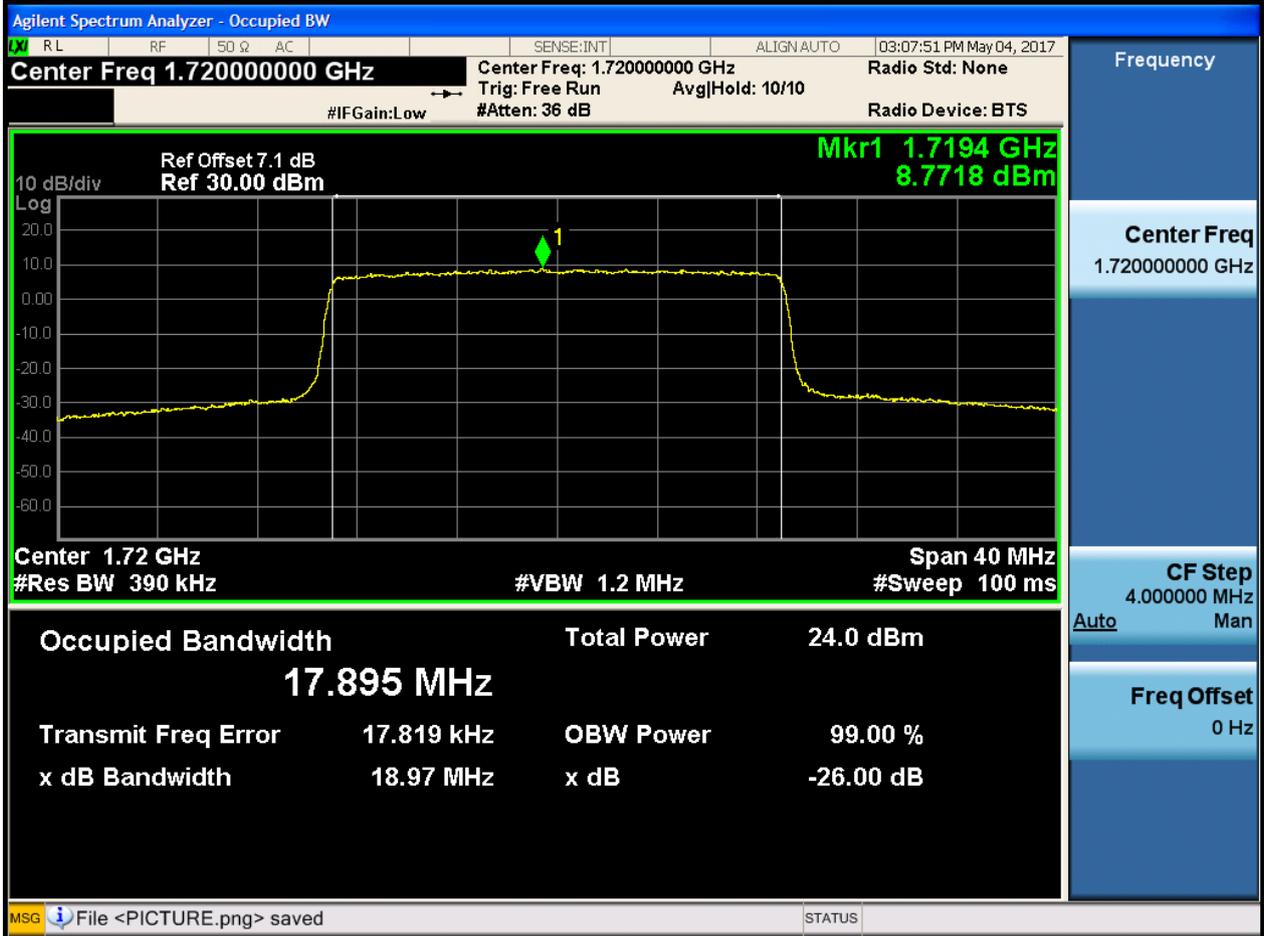
4.1.1.1.6.2 Test Channel = MCH

4.1.1.1.6.2.1 Test RB = RB100#0
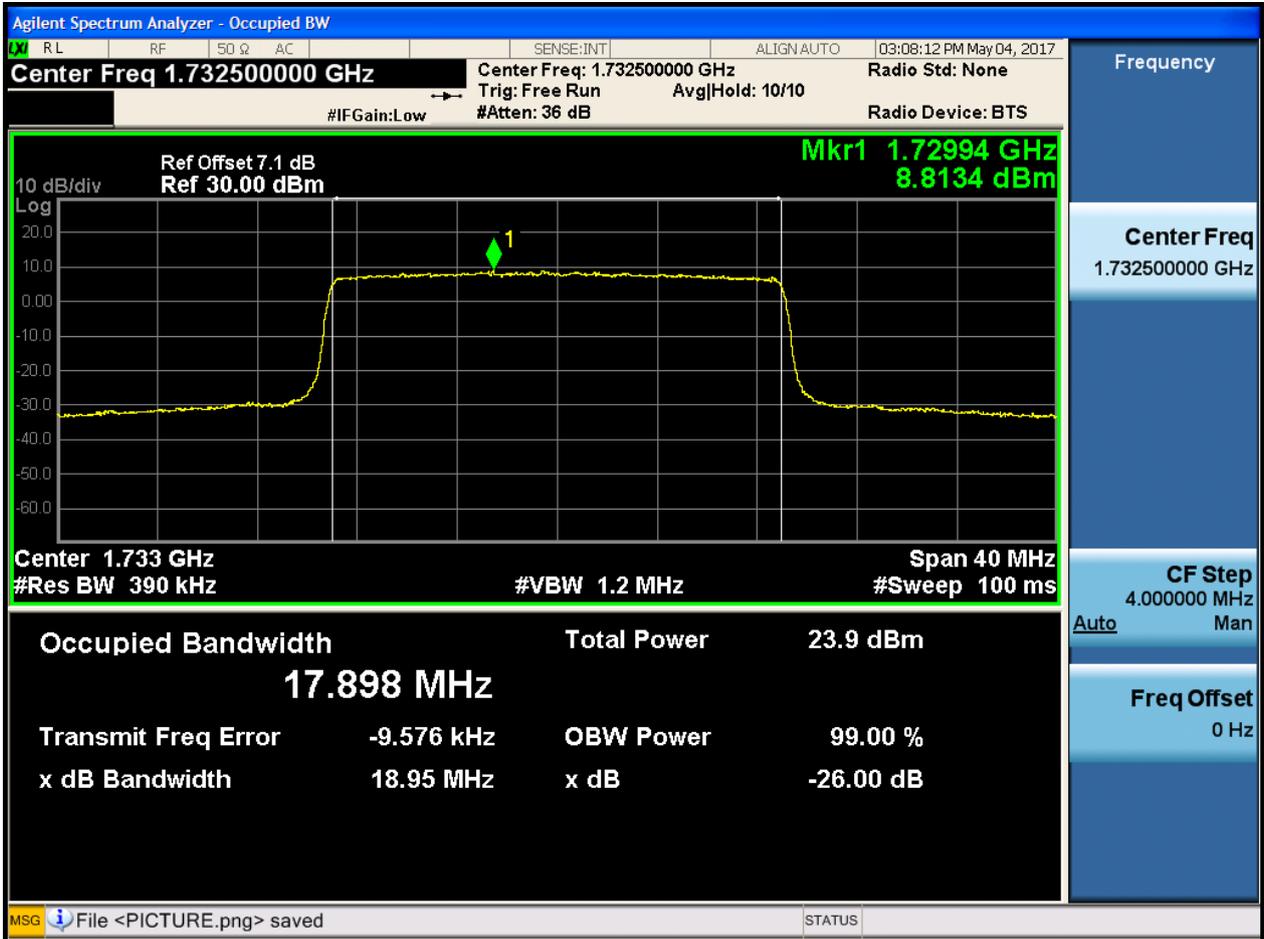
4.1.1.1.6.3 Test Channel = HCH

4.1.1.1.6.3.1 Test RB = RB100#0
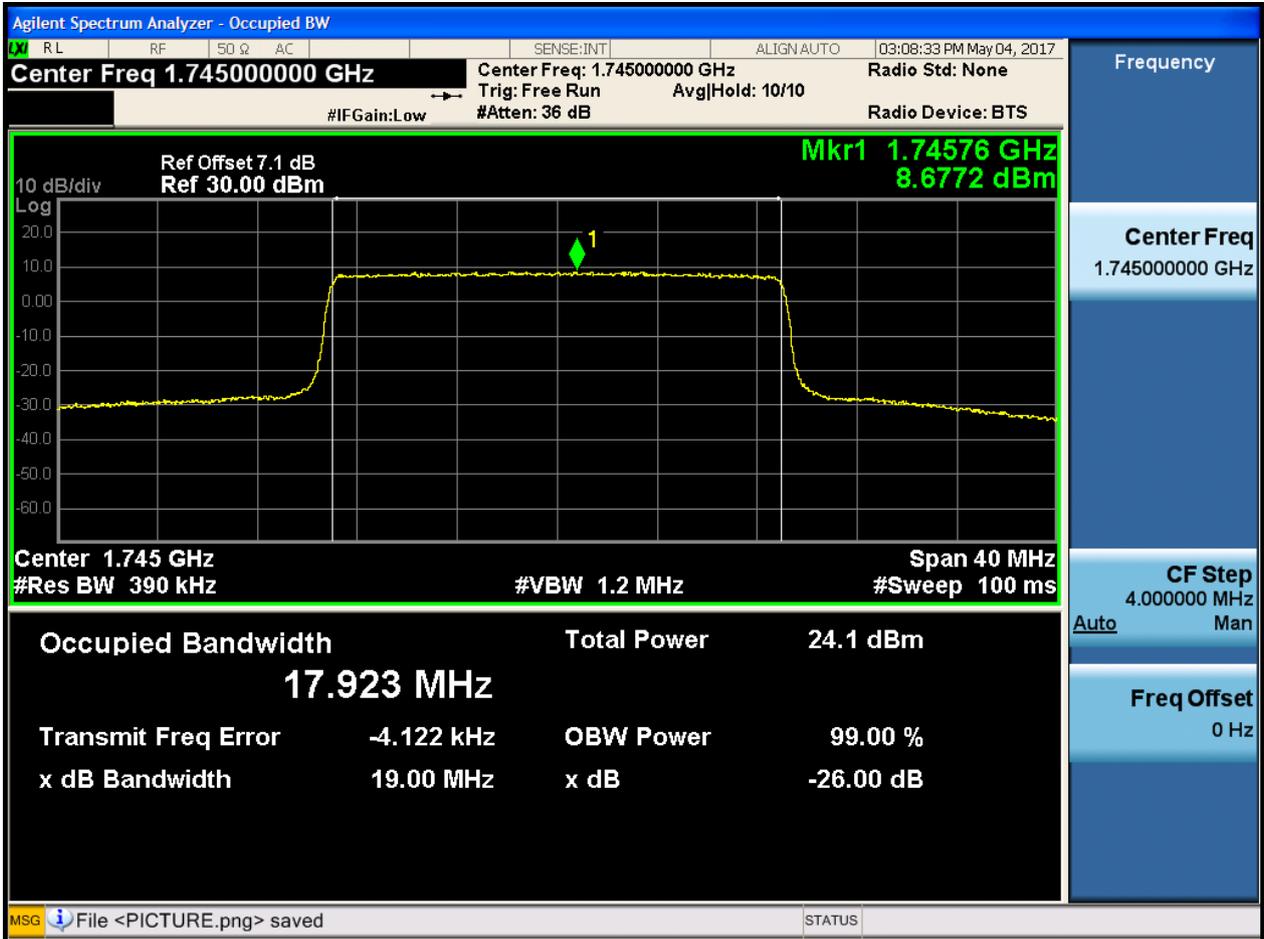
4.1.1.2 Test Mode = LTE/TM2

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

4.1.1.2.2.2.1 Test RB = RB15#0

4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

Agilent Spectrum Analyzer - Occupied BW		
LXI RL RF 50 Ω AC	SENSE:INT ALIGN AUTO 03:10:45 PM May 04, 2017	Frequency
Center Freq 1.753500000 GHz	Center Freq: 1.753500000 GHz Radio Std: None	
#IFGain:Low	Trig: Free Run Avg|Hold: 10/10 #Atten: 36 dB Radio Device: BTS	

Occupied Bandwidth
2.7064 MHz

		Total Power	24.6 dBm
Transmit Freq Error	-541 Hz	OBW Power	99.00 %
x dB Bandwidth	2.948 MHz	x dB	-26.00 dB

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
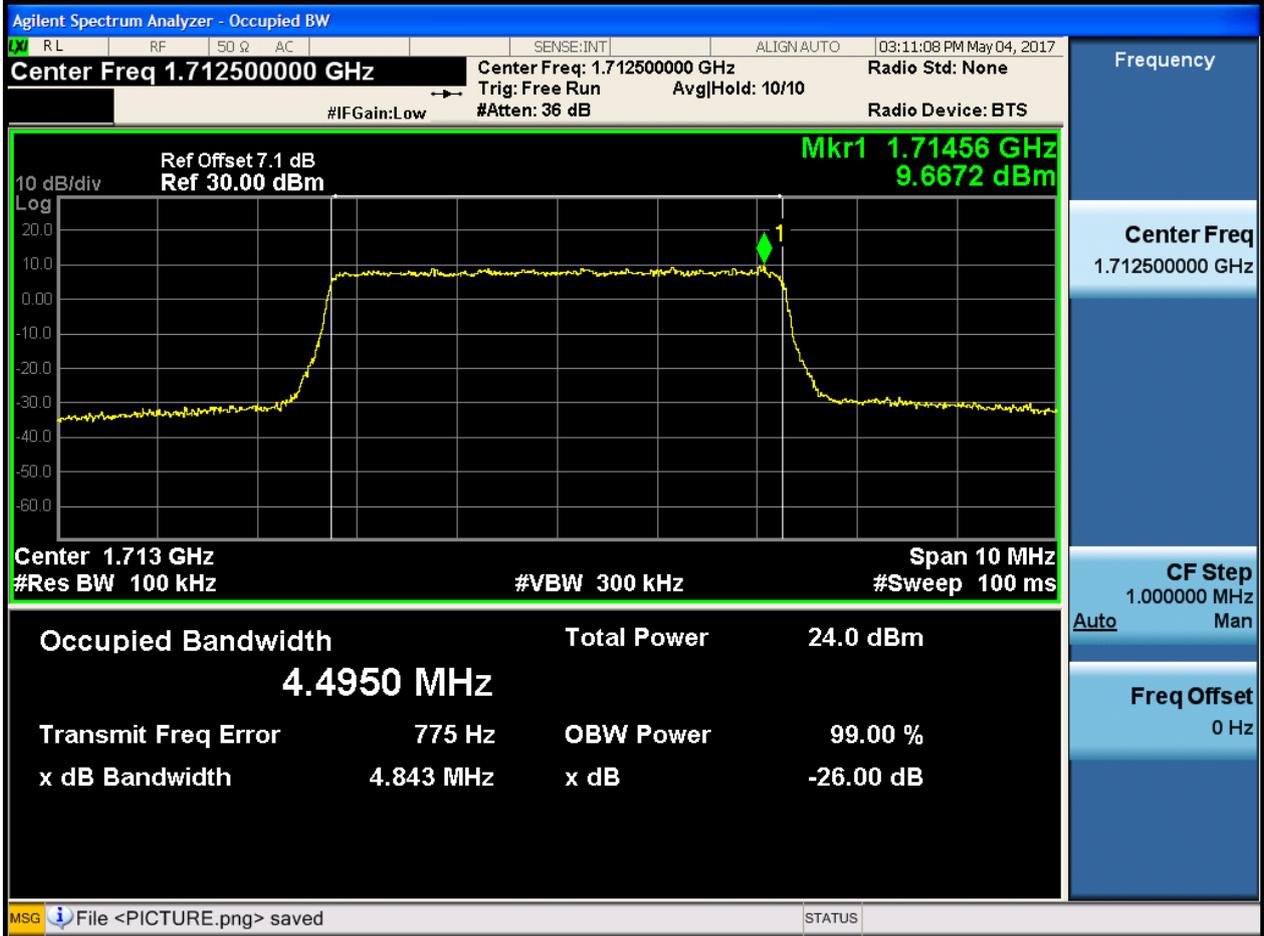
4.1.1.2.3.2 Test Channel = MCH

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
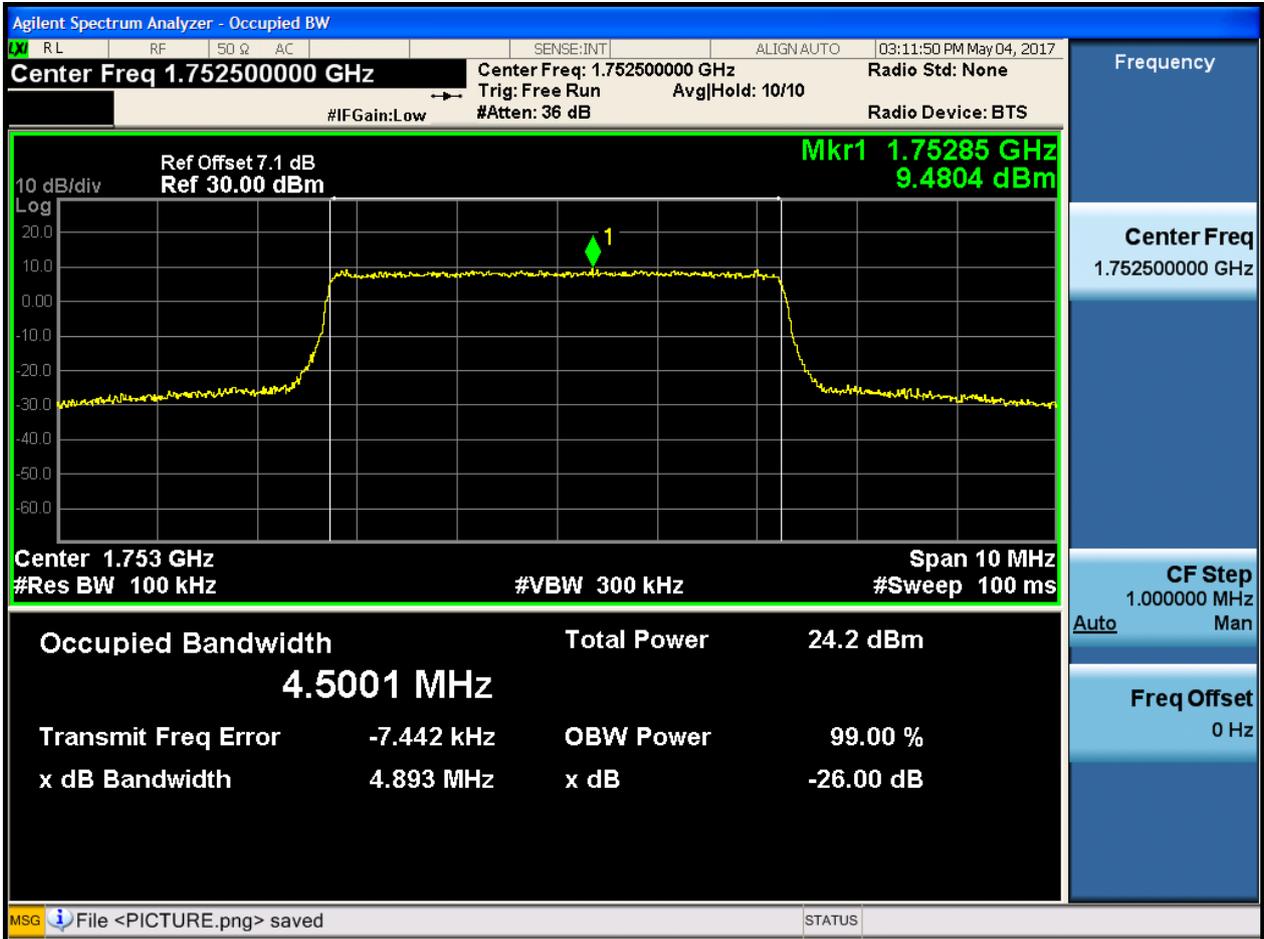
4.1.1.2.4 Test Bandwidth = 10

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
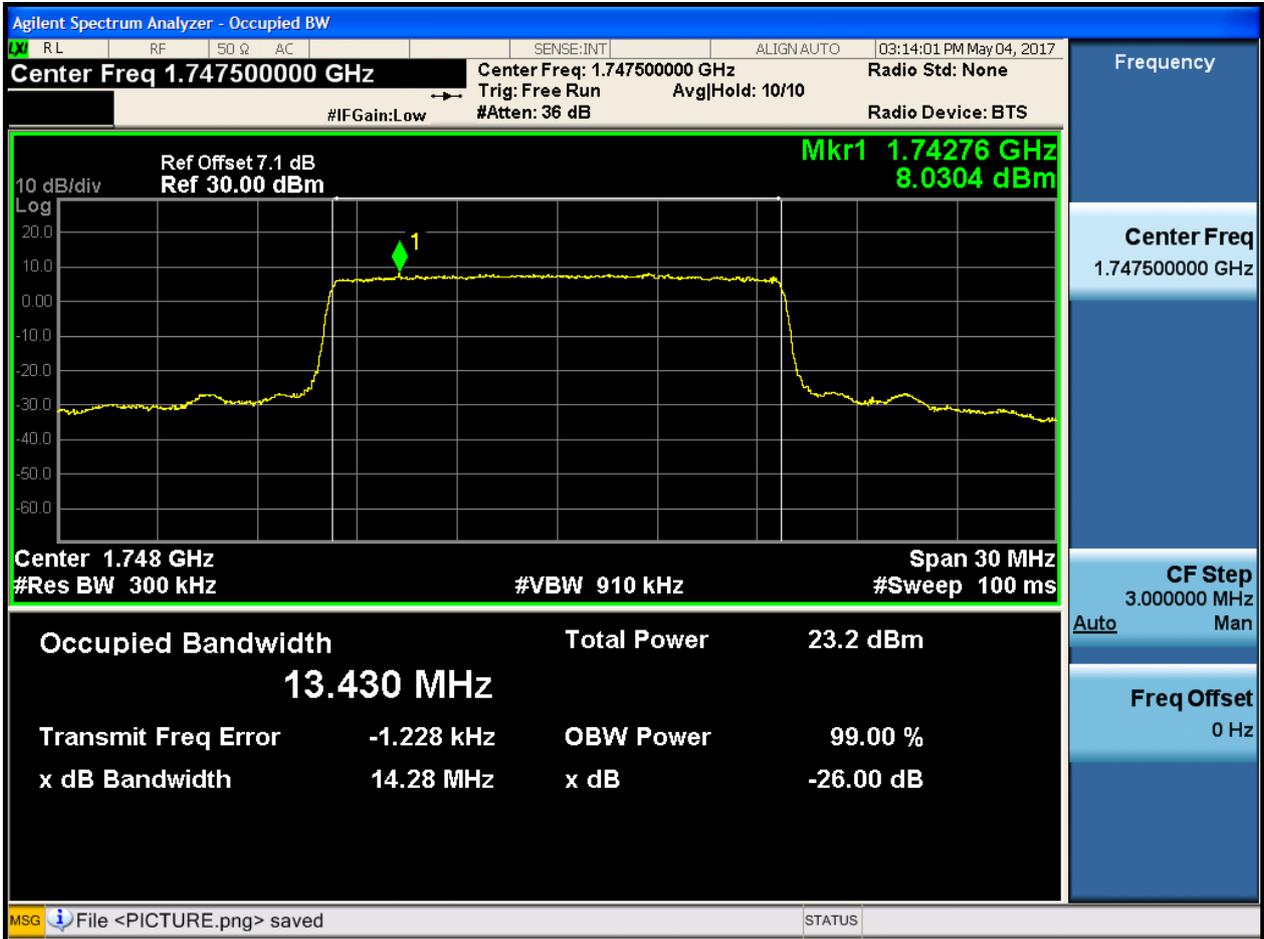
4.1.1.2.6 Test Bandwidth = 20

4.1.1.2.6.1 Test Channel = LCH

4.1.1.2.6.1.1 Test RB = RB100#0
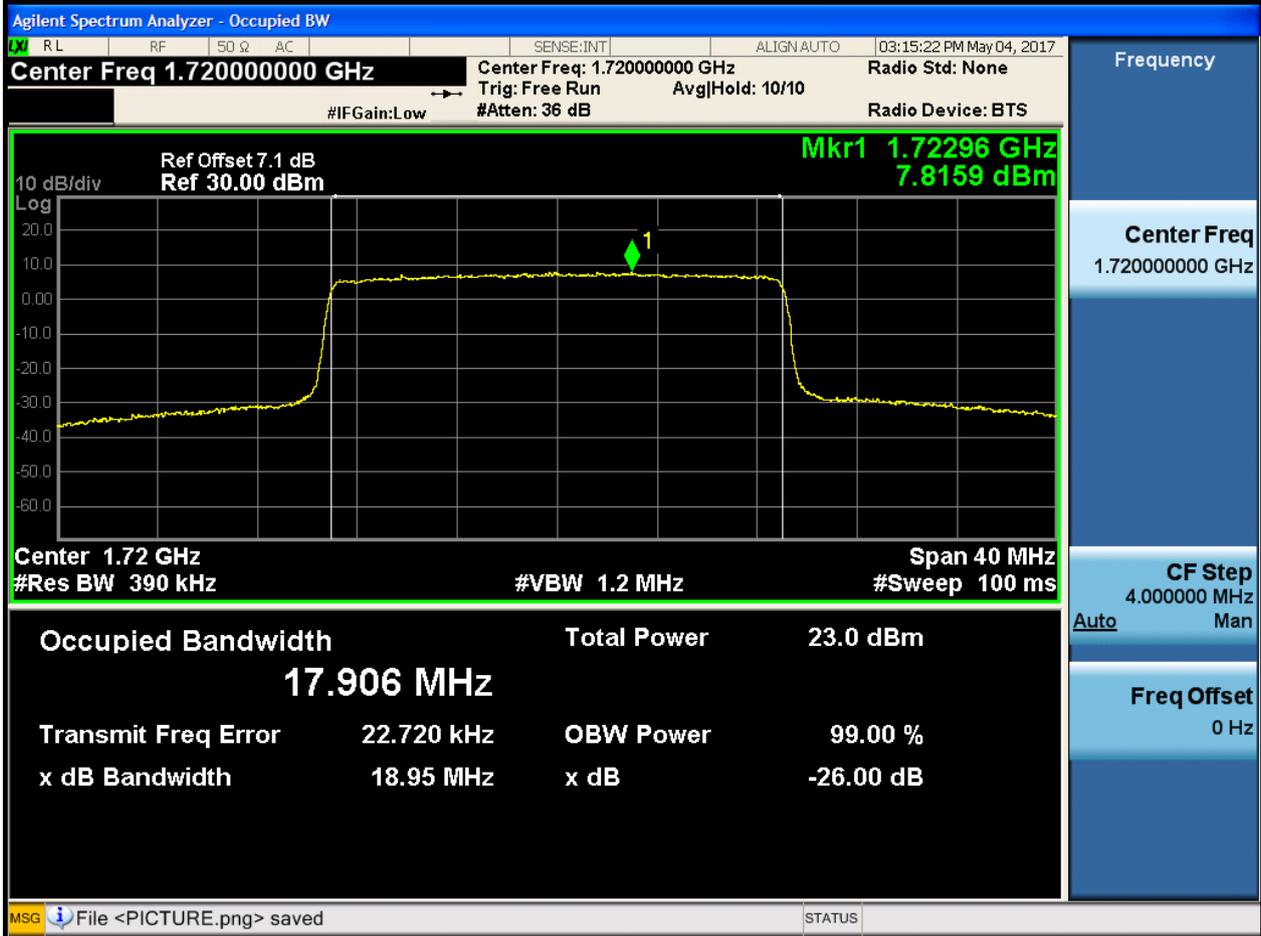
4.1.1.2.6.2 Test Channel = MCH

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
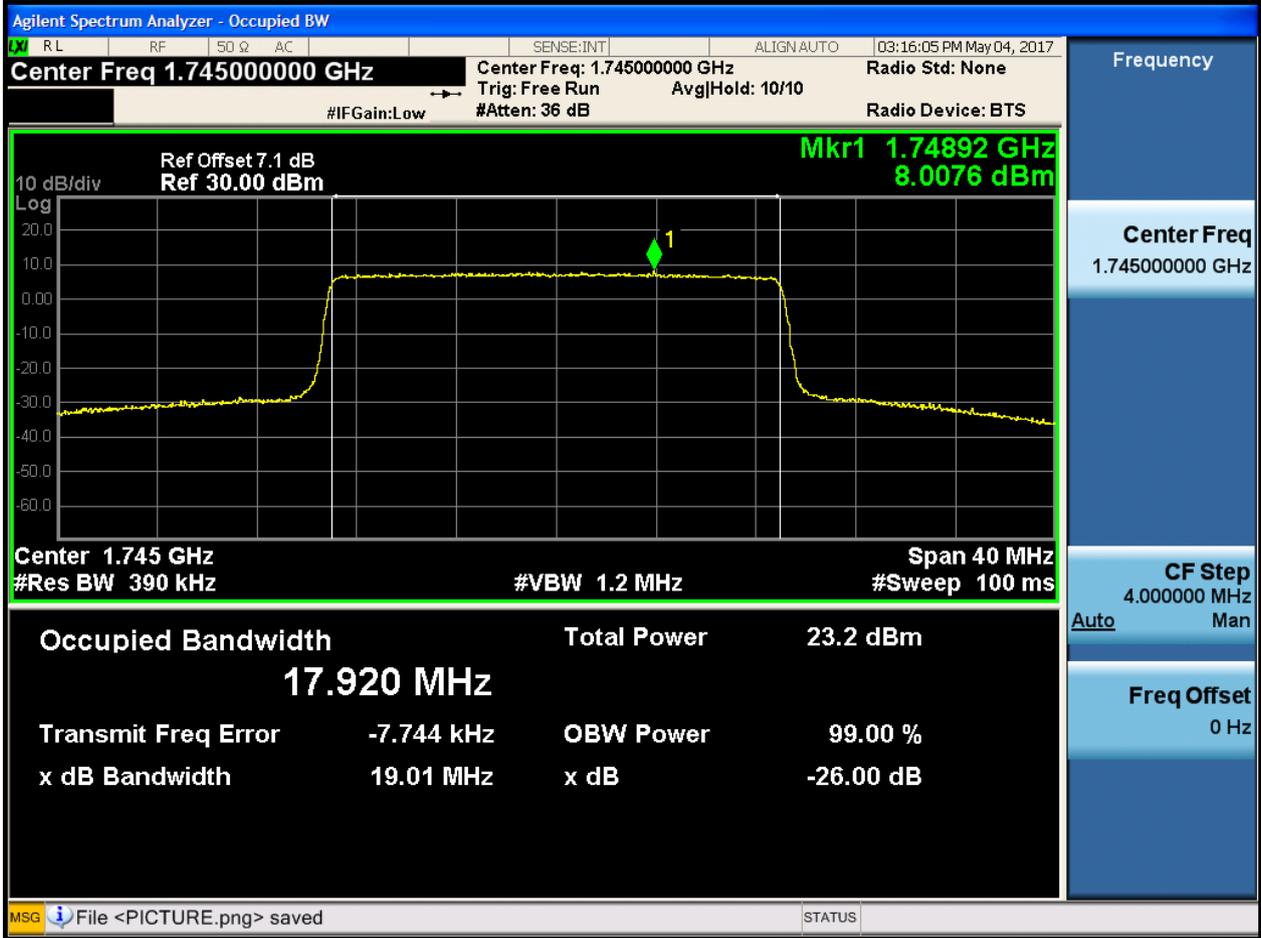
5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = BAND4

5.1.1.1 Test Mode = LTE/TM1

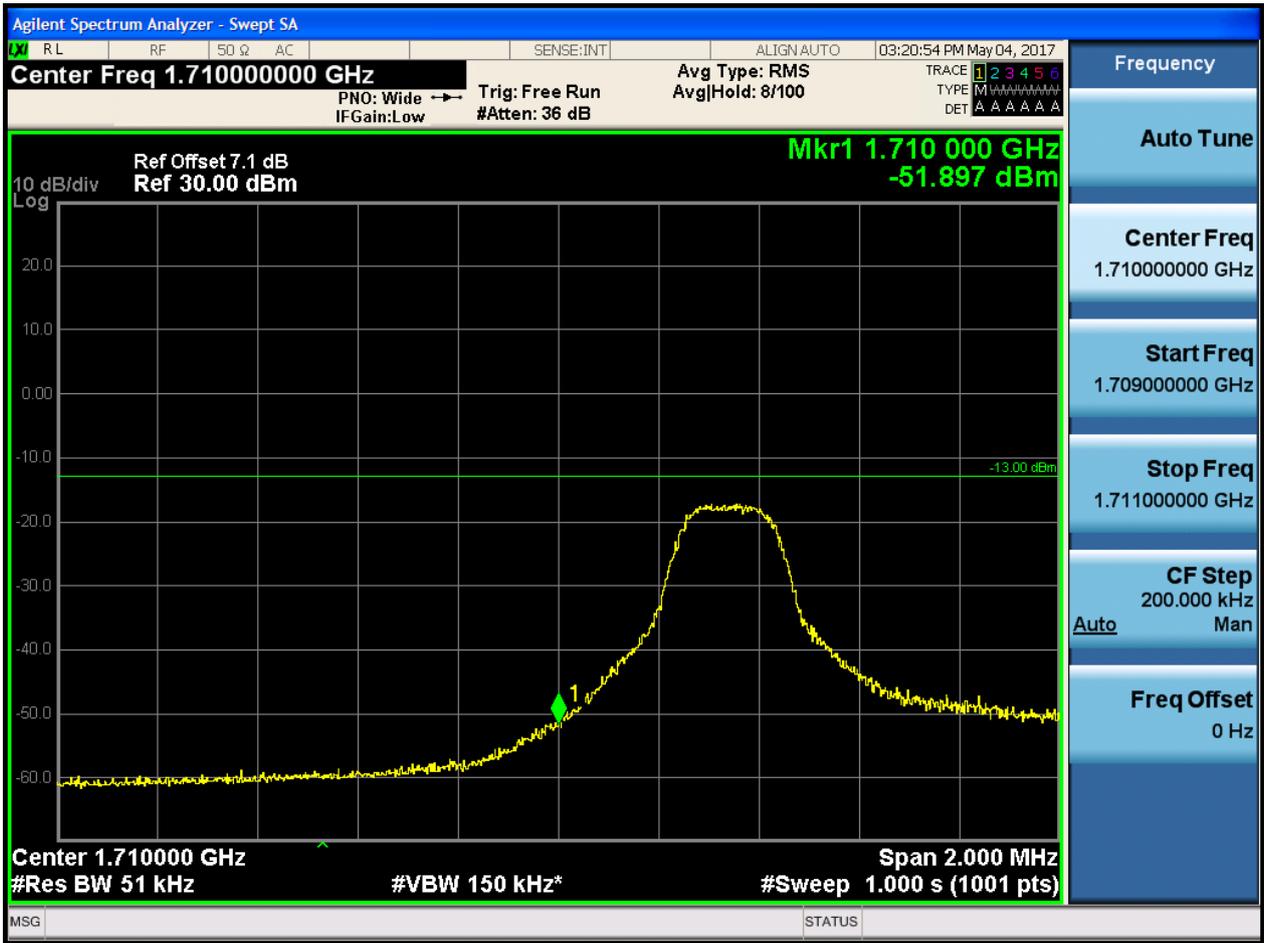**5.1.1.1.1 Test Bandwidth = 1.4**

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0

5.1.1.1.1.1.2 Test RB = RB1#5

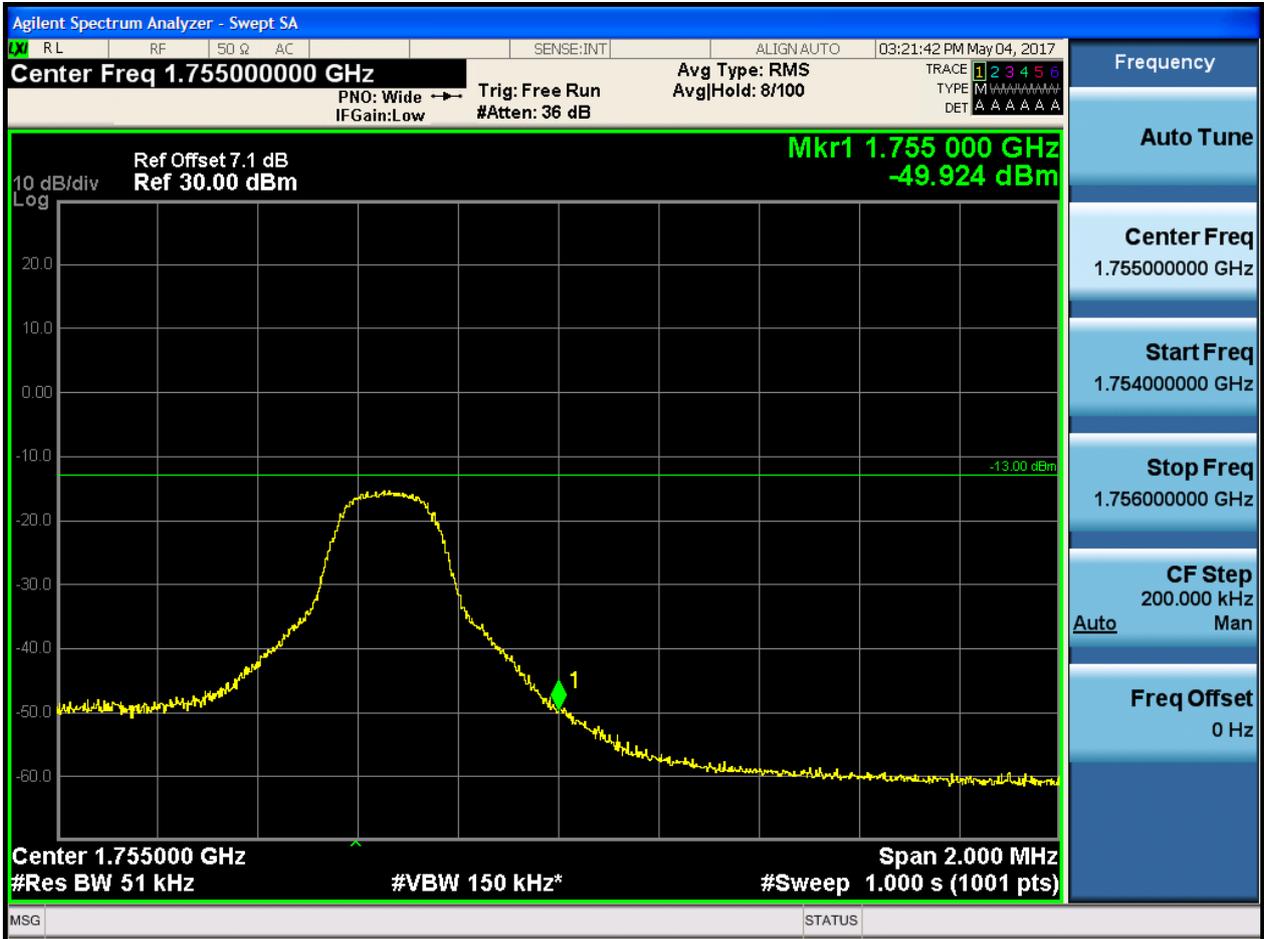## 5.1.1.1.1.3 Test RB = RB3#2

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

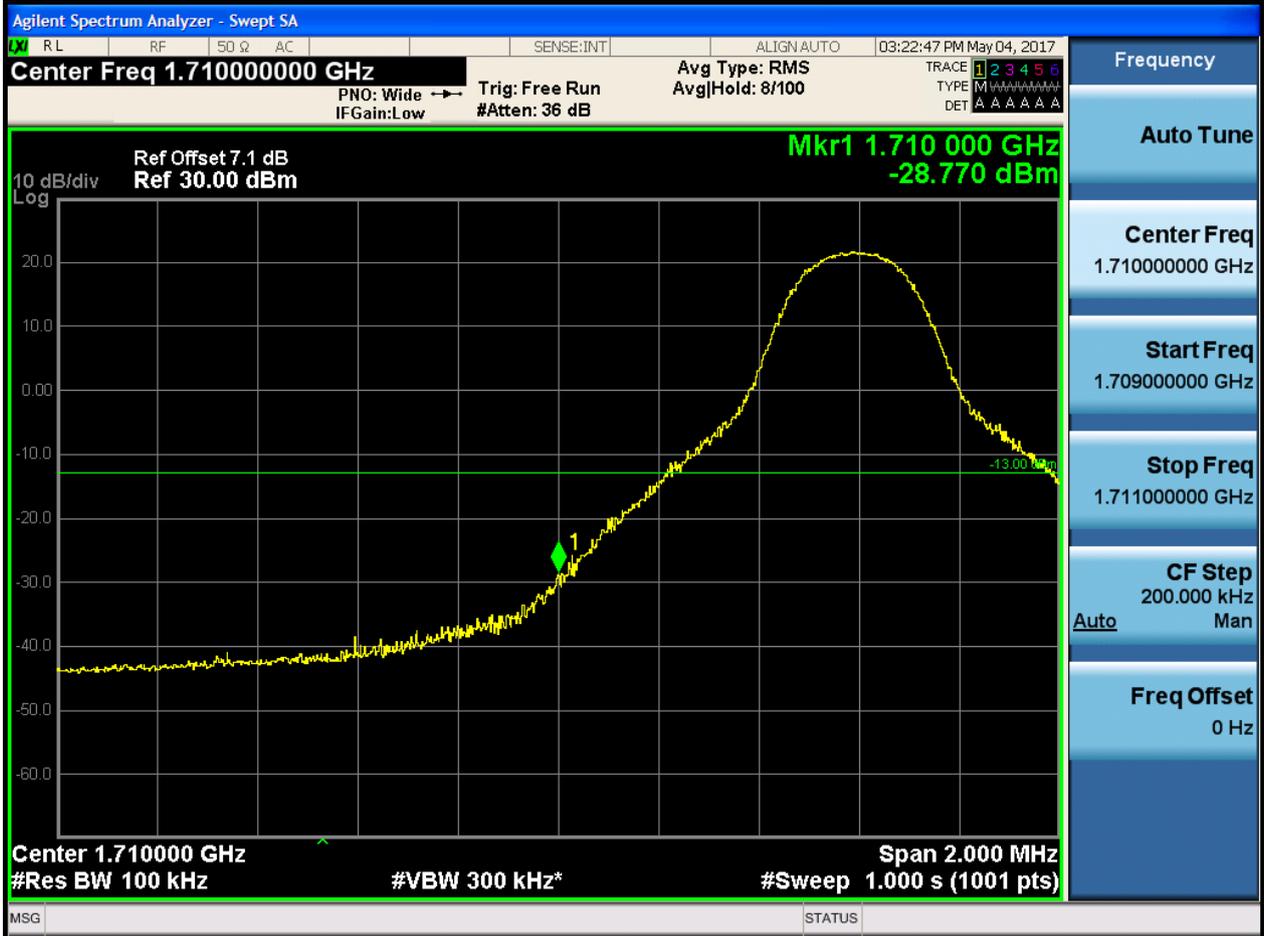## 5.1.1.1.1.2.2 Test RB = RB1#5

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

5.1.1.1.5.1.1 Test RB = RB1#0

5.1.1.1.2.1.2 Test RB = RB1#14

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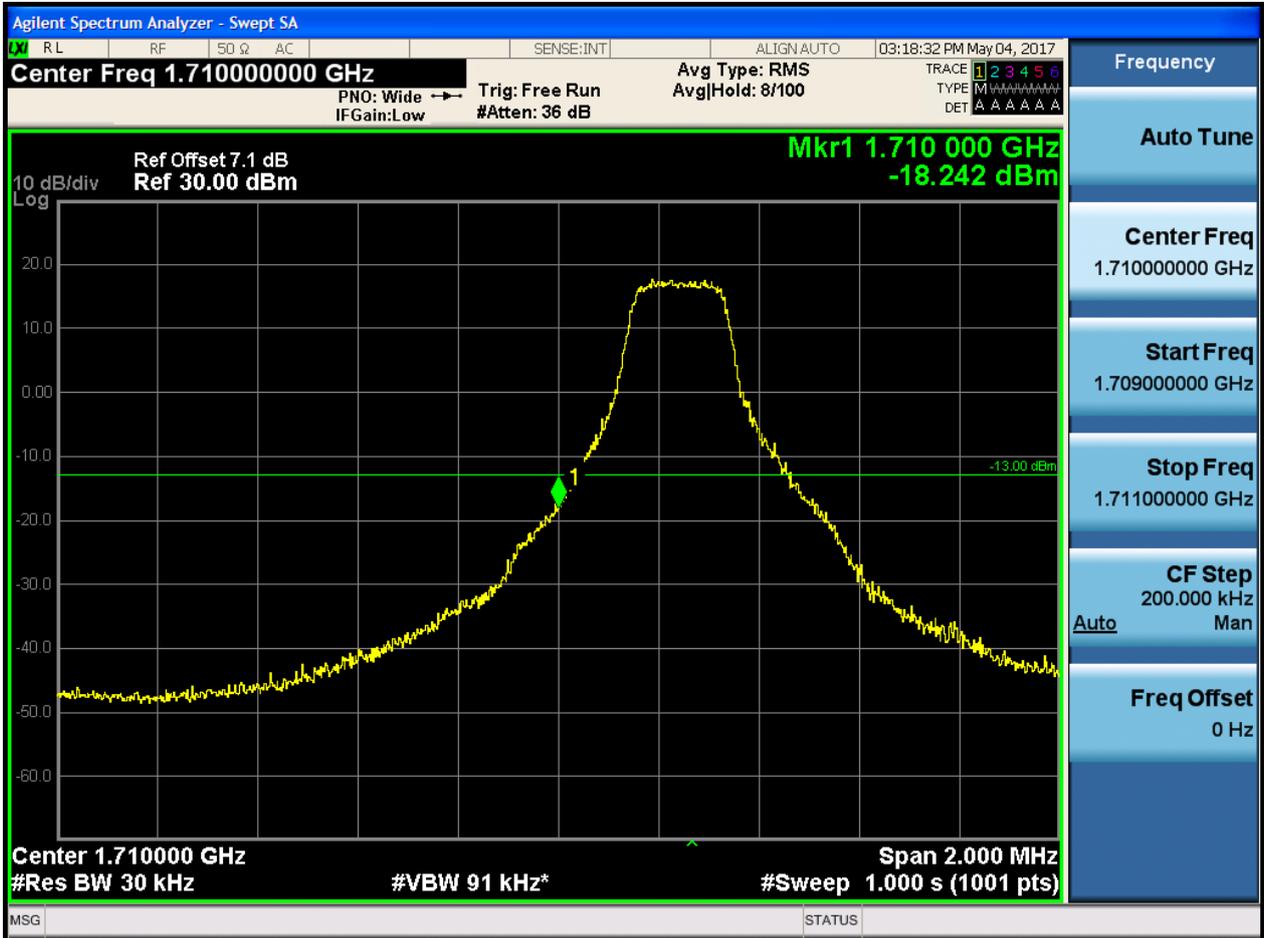
5.1.1.1.2.1.3 Test RB = RB8#4

5.1.1.1.2.1.4 Test RB = RB15#0
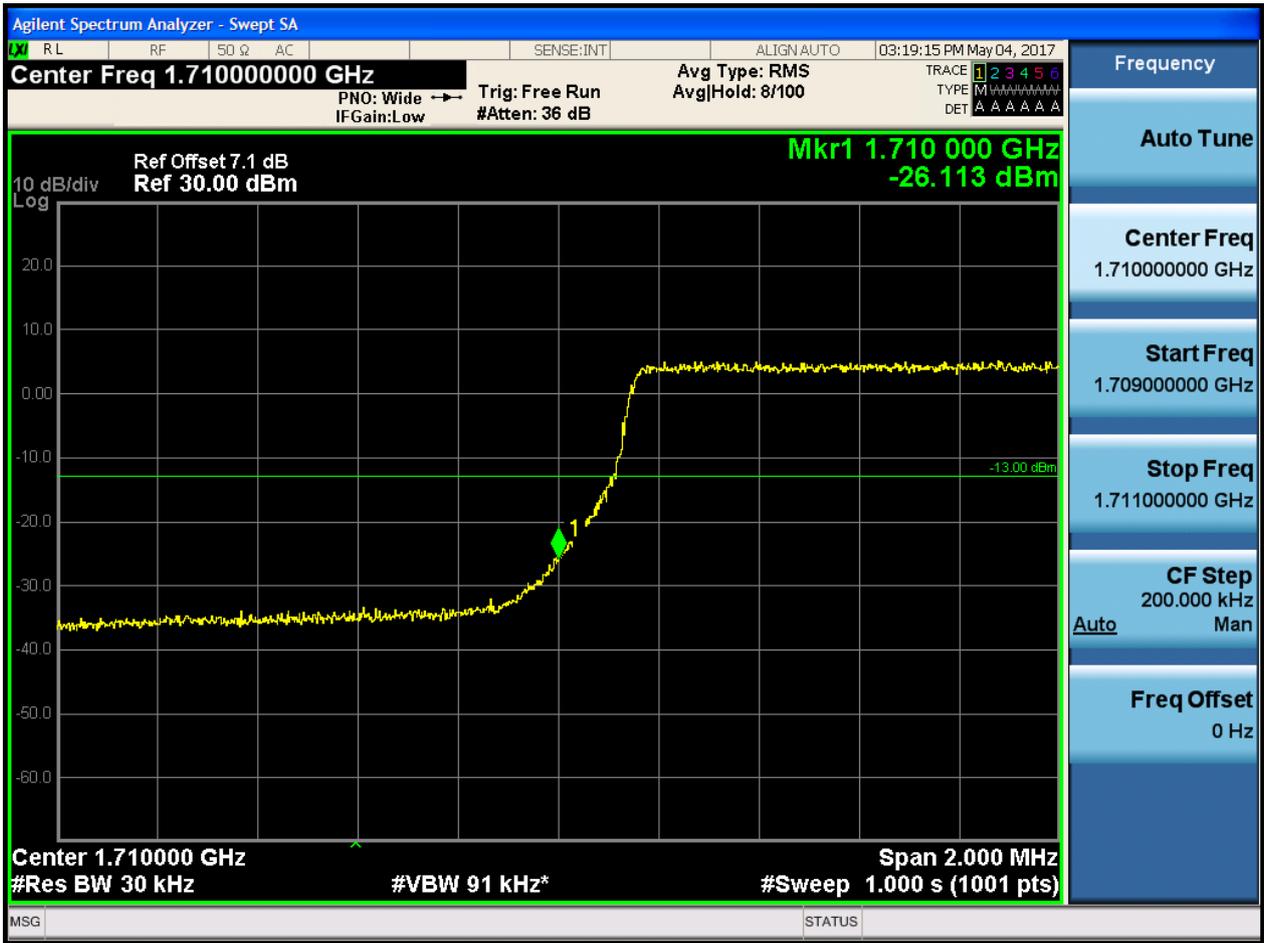
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0

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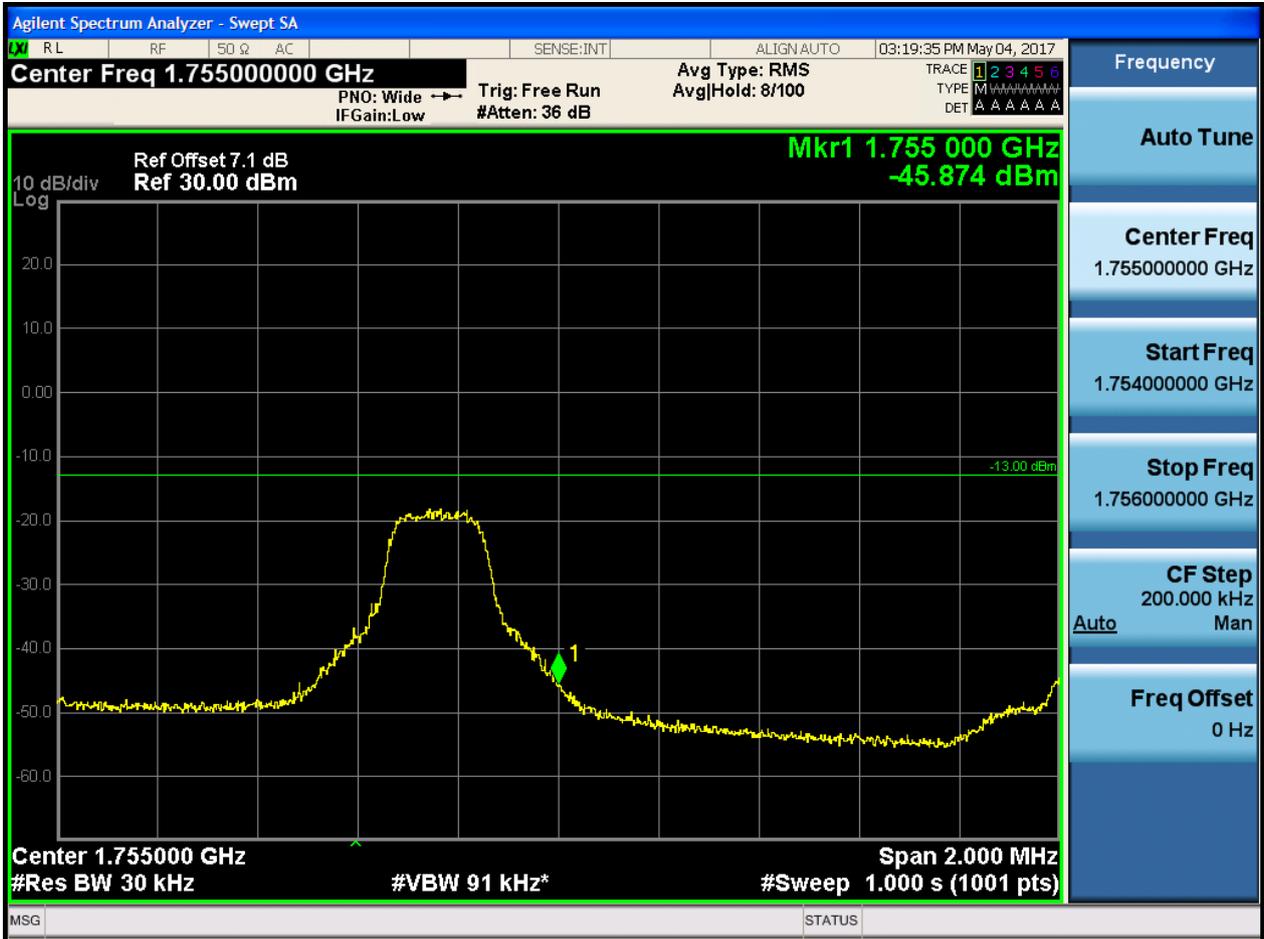
5.1.1.1.2.2.2 Test RB = RB1#14
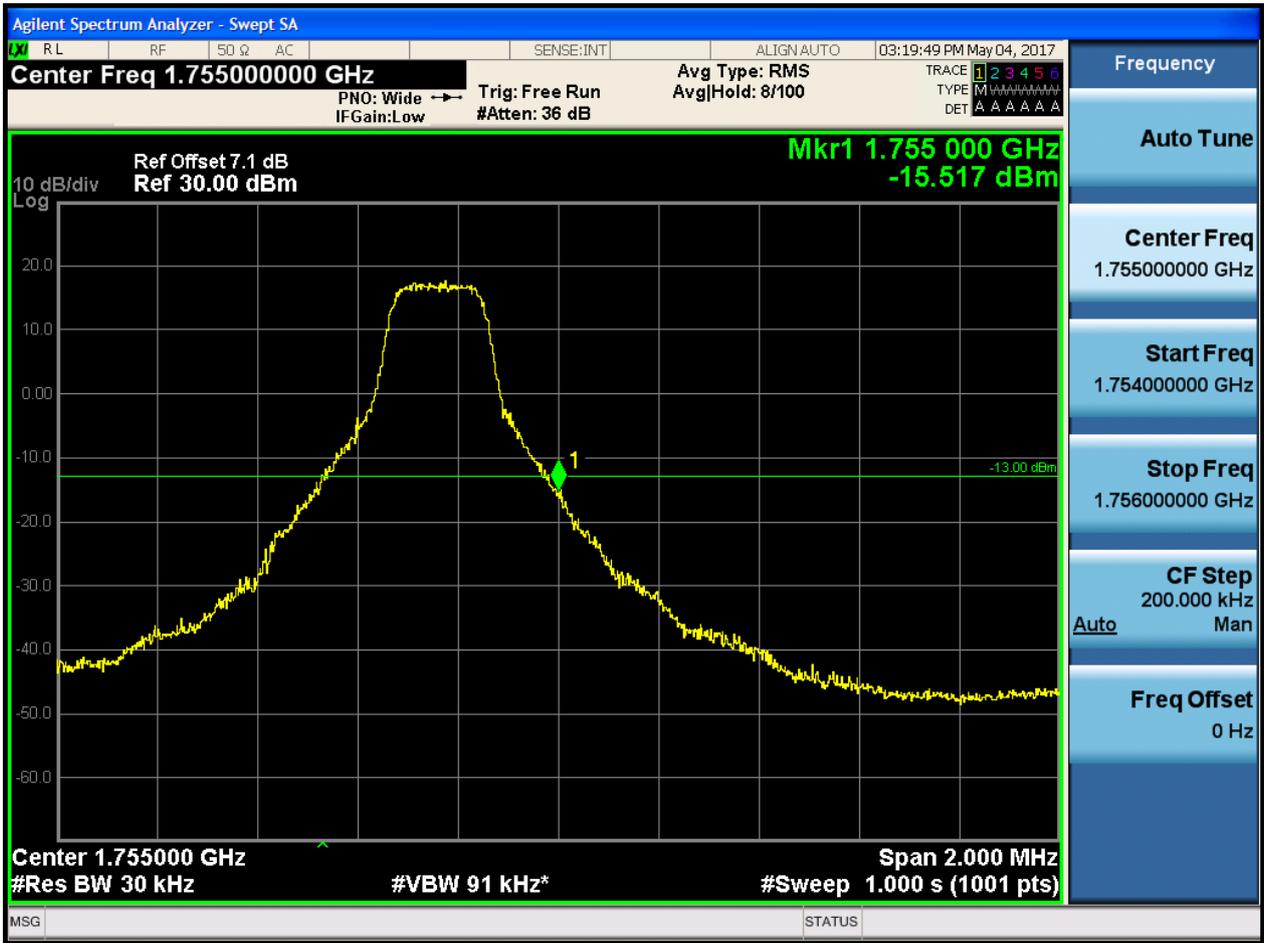
5.1.1.1.2.2.3 Test RB = RB8#4

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

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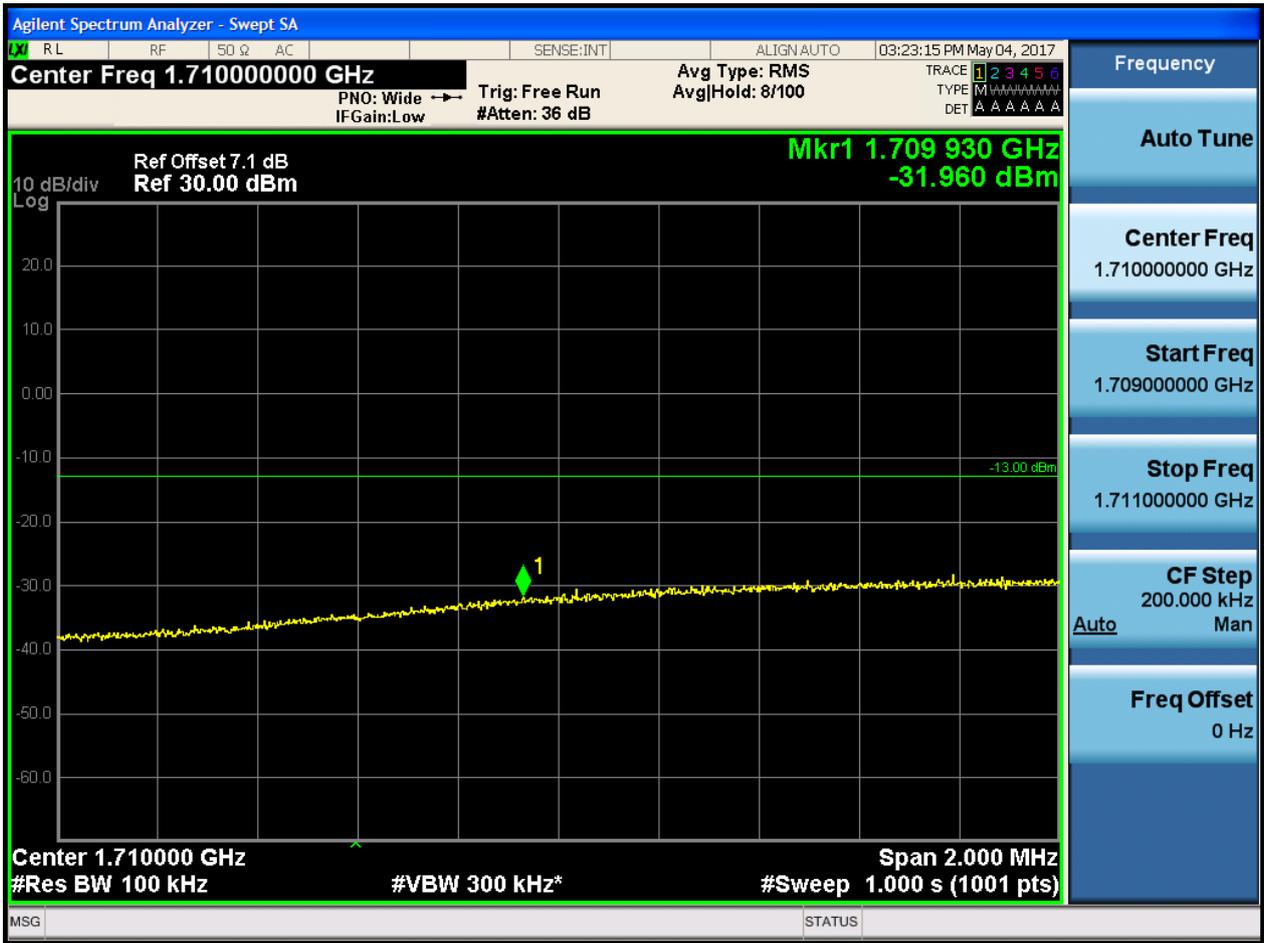
5.1.1.1.3.1.2 Test RB = RB1#24

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

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5.1.1.1.3.2.2 Test RB = RB1#24

5.1.1.1.3.2.3 Test RB = RB12#6

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
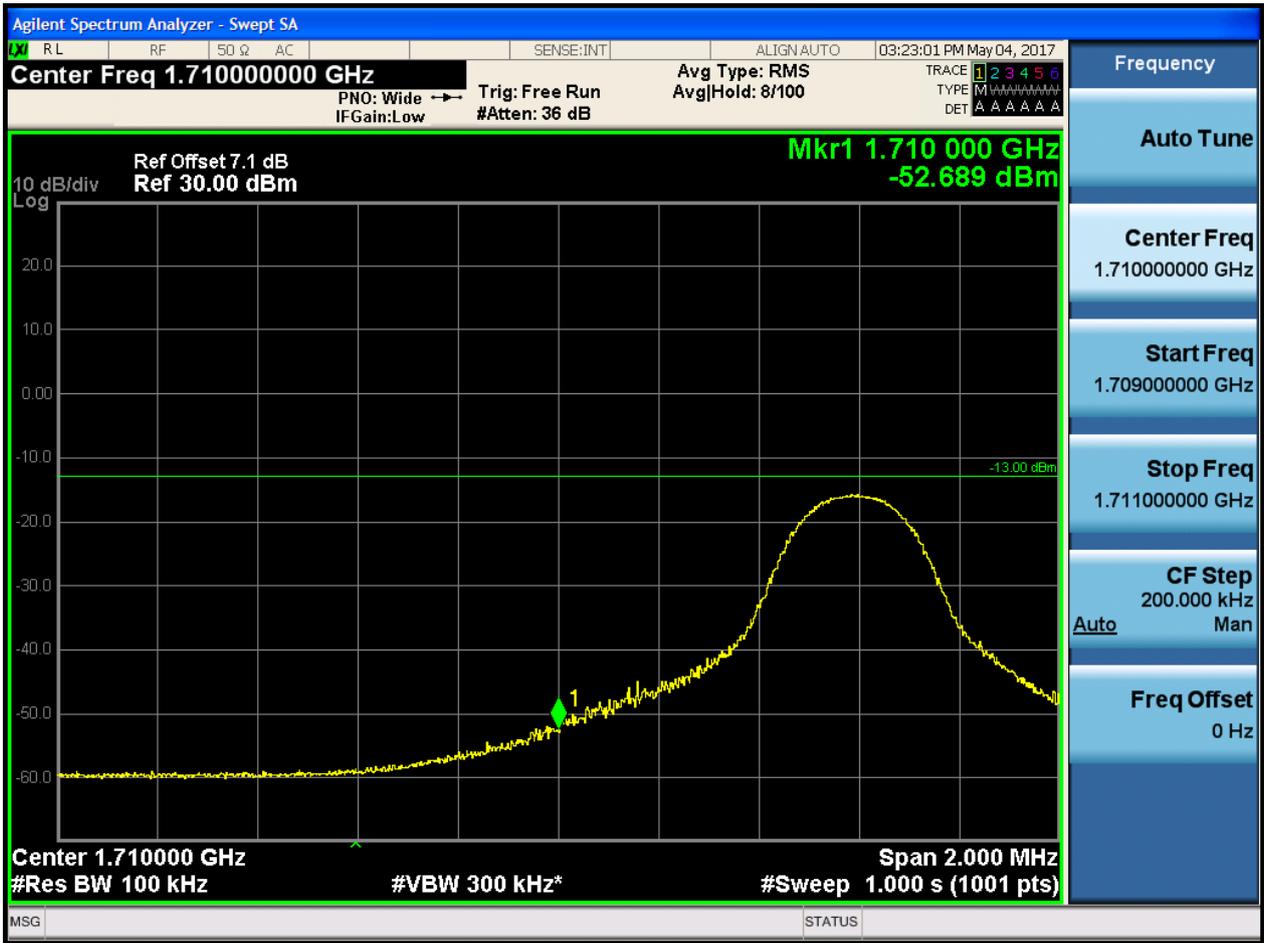
5.1.1.1.4.1.3 Test RB = RB25#13

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
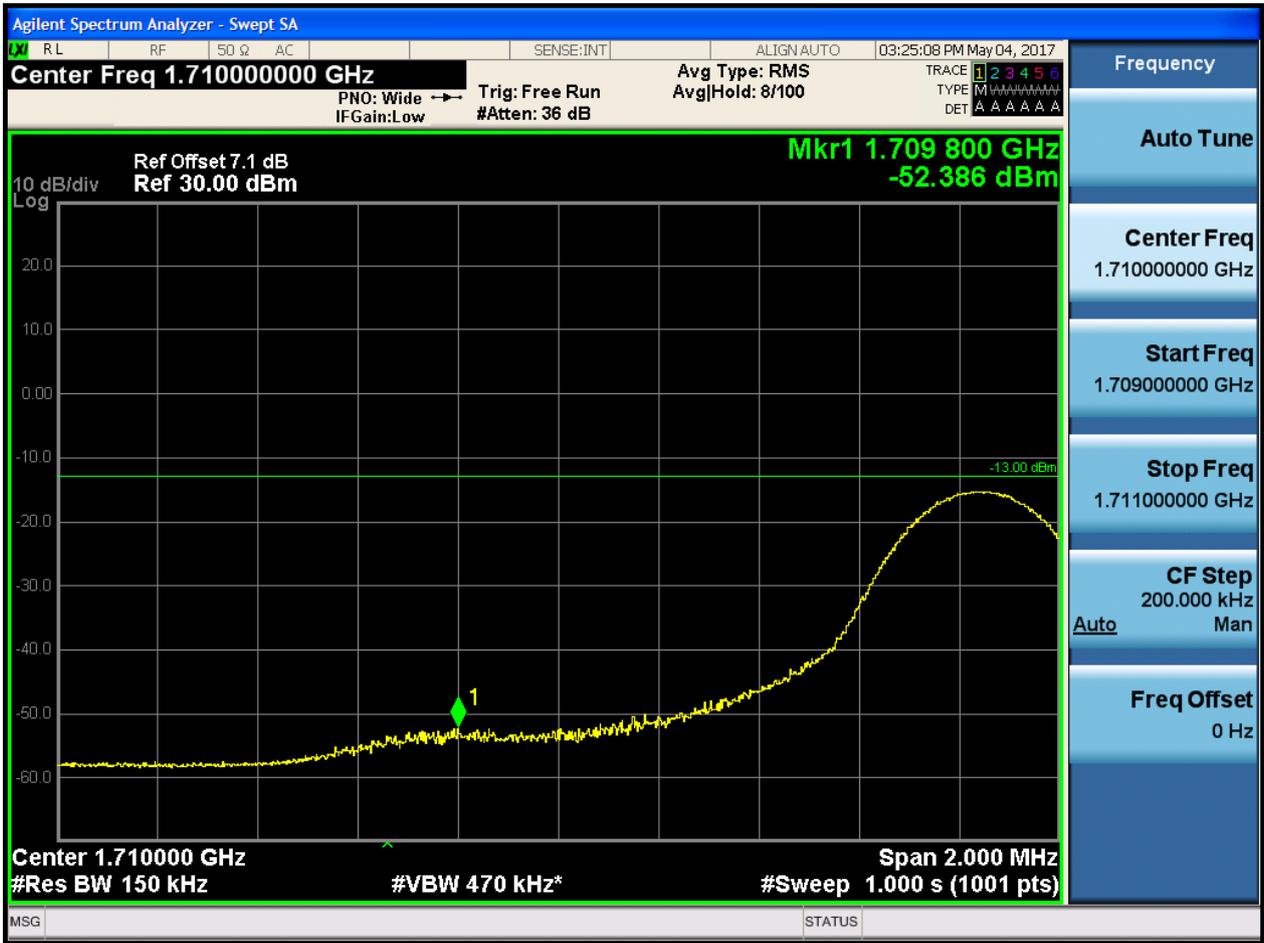
5.1.1.1.4.2.4 Test RB = RB50#0

5.1.1.1.5 Test Bandwidth = 15

5.1.1.1.5.1 Test Channel = LCH
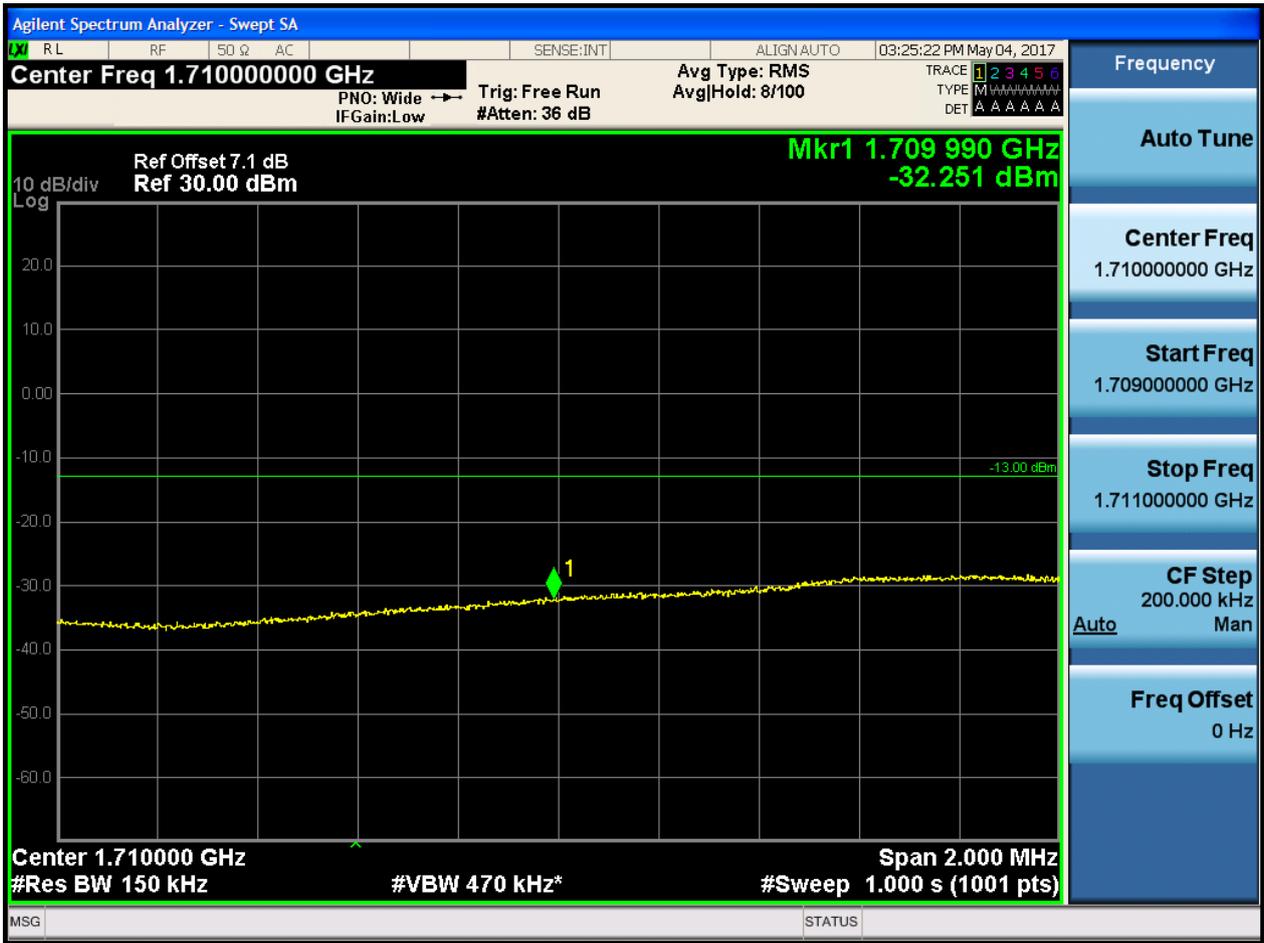
5.1.1.1.5.1.1 Test RB = RB1#0

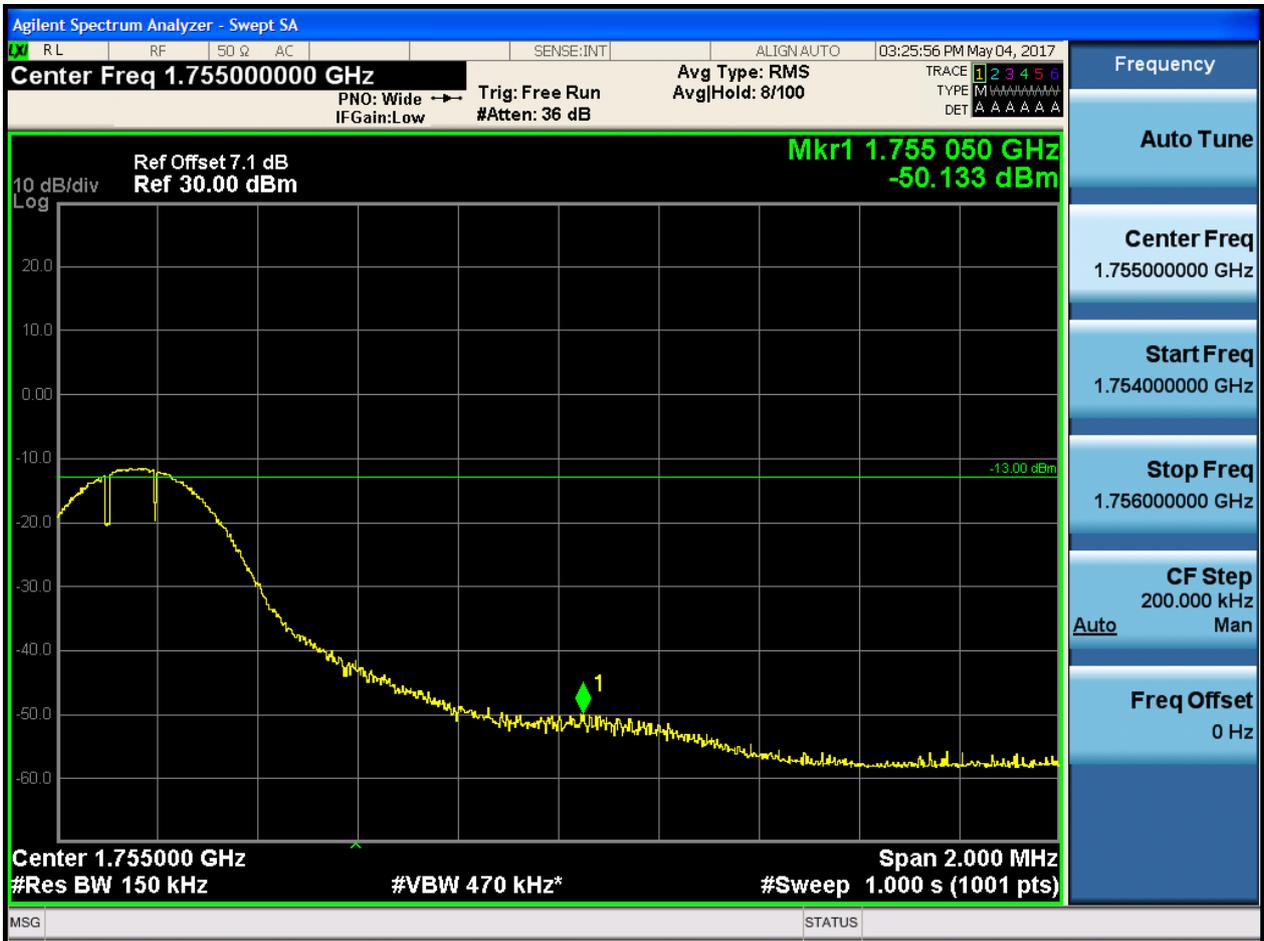## 5.1.1.1.5.1.2 Test RB = RB1#74

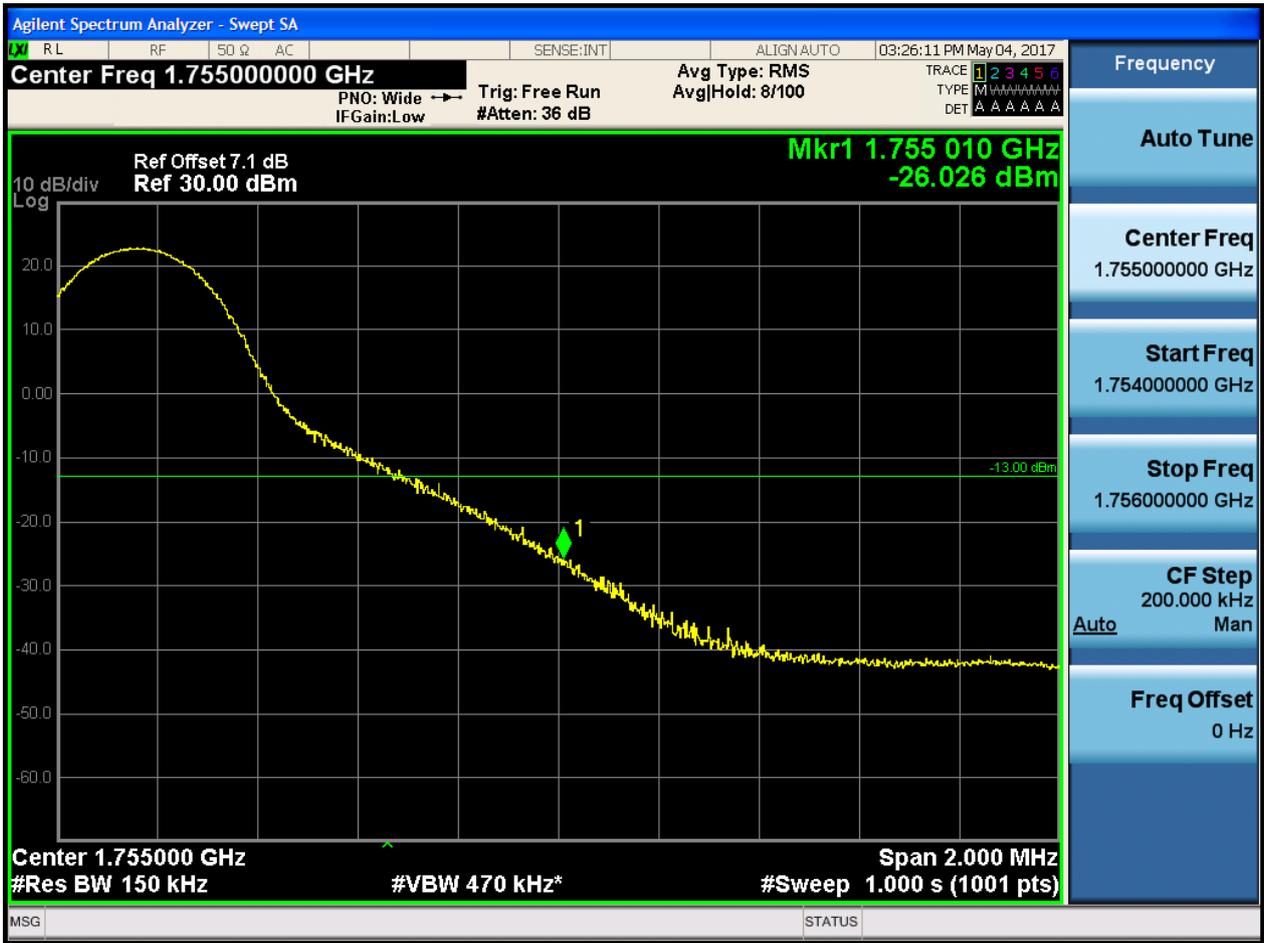## 5.1.1.1.5.1.3 Test RB = RB38#19

5.1.1.1.5.1.4 Test RB = RB75#0

5.1.1.1.5.2 Test Channel = HCH

5.1.1.1.5.2.1 Test RB = RB1#0

5.1.1.1.5.2.2 Test RB = RB1#74

Agilent Spectrum Analyzer - Swept SA

LXI R L	RF	50 Ω AC	SENSE:INT ALIGN AUTO 03:26:11 PM May 04, 2017

Center Freq 1.755000000 GHz
PNO: Wide →→
IFGain:Low

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg|Hold: 8/100

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

Mkr1 1.755 010 GHz
-26.026 dBm

Ref Offset 7.1 dB
10 dB/div Ref 30.00 dBm
Log

-13.00 dBm

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 1.755000 GHz
#Res BW 150 kHz
#VBW 470 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

5.1.1.1.5.2.3 Test RB = RB38#19

5.1.1.1.5.2.4 Test RB = RB75#0

5.1.1.1.6 Test Bandwidth = 20

5.1.1.1.6.1 Test Channel = LCH

5.1.1.1.6.1.1 Test RB = RB1#0

5.1.1.1.6.1.2 Test RB = RB1#99
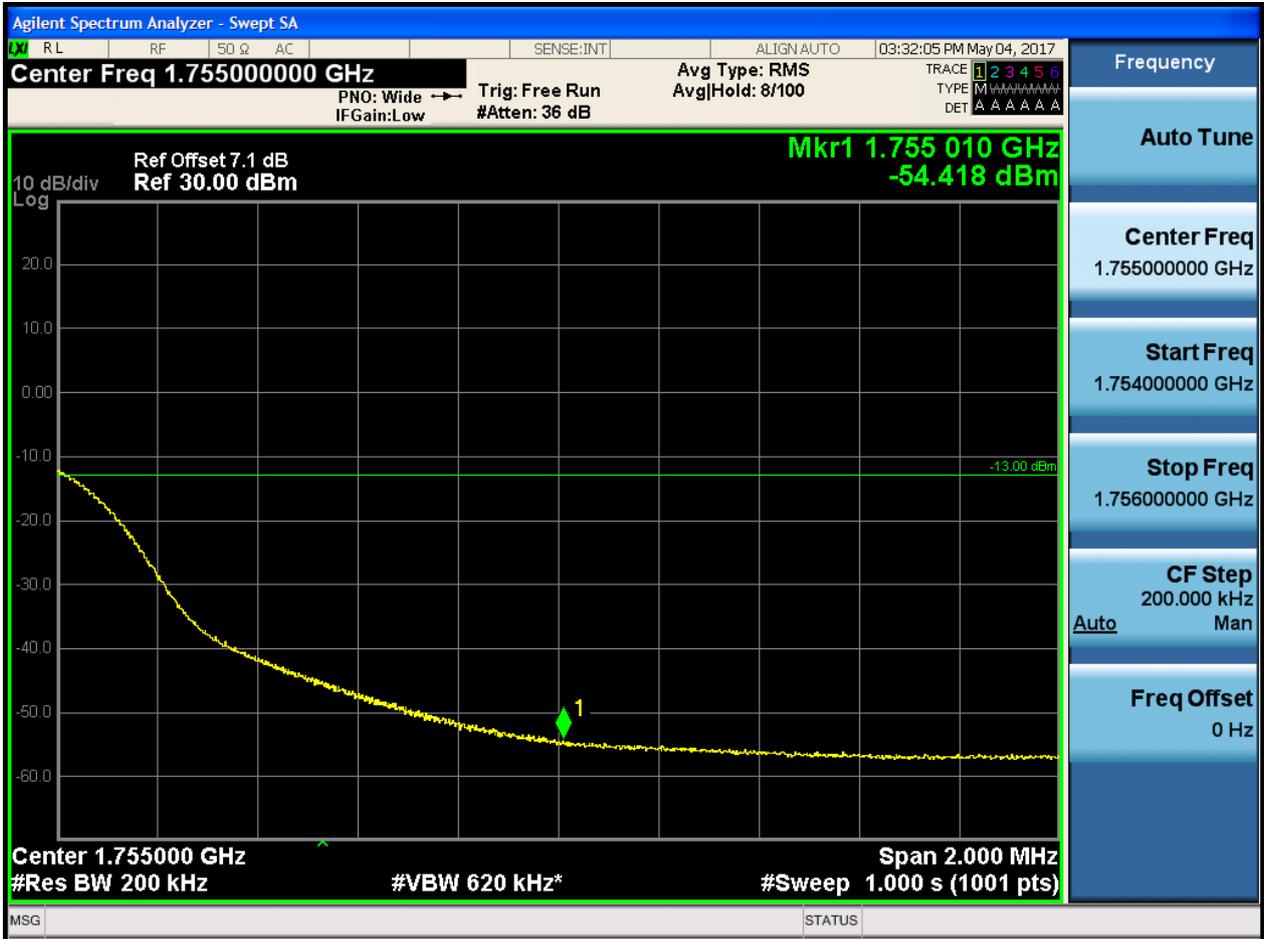
5.1.1.1.6.1.3 Test RB = RB50#25

5.1.1.1.6.1.4 Test RB = RB100#0

5.1.1.1.6.2 Test Channel = HCH

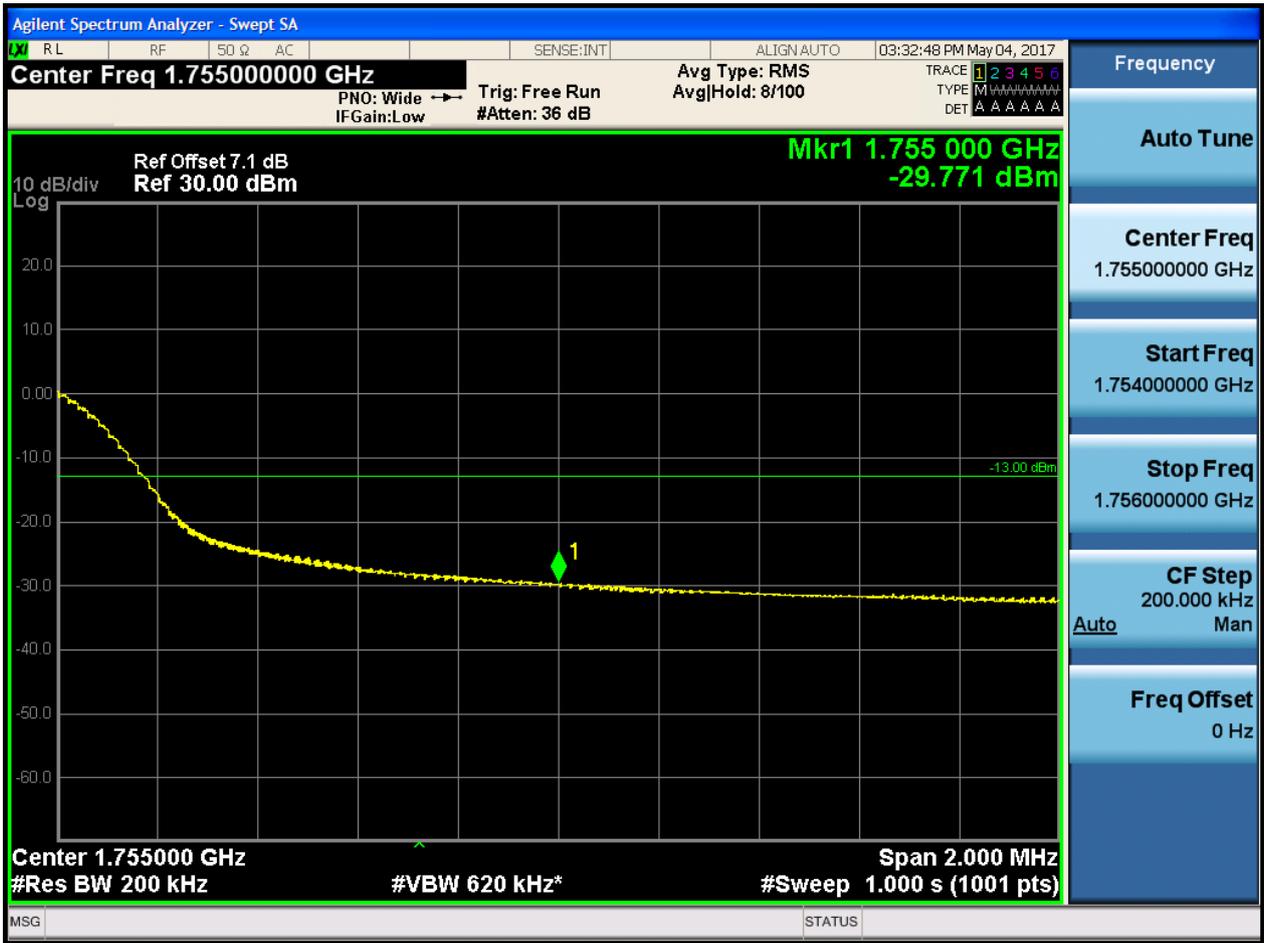### 5.1.1.1.6.2.1 Test RB = RB1#0

5.1.1.1.6.2.2 Test RB = RB1#99

5.1.1.1.6.2.3 Test RB = RB50#25

5.1.1.1.6.2.4 Test RB = RB100#0

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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