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
Band26(814-824MHz)	LTE/TM1	1.4	LCH	RB1#0	24.05	21.84	50	PASS
				RB1#3	24.02	21.81	50	PASS
				RB1#5	23.93	21.72	50	PASS
				RB3#0	23.85	21.64	50	PASS
				RB3#2	23.82	21.61	50	PASS
				RB3#3	23.89	21.68	50	PASS
				RB6#0	22.94	20.73	50	PASS
			MCH	RB1#0	24.29	22.08	50	PASS
				RB1#3	24.01	21.8	50	PASS
				RB1#5	24.02	21.81	50	PASS
				RB3#0	23.93	21.72	50	PASS
				RB3#2	24	21.79	50	PASS
				RB3#3	23.98	21.77	50	PASS
				RB6#0	23.08	20.87	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	24.22	22.01	50	PASS
				RB1#3	24.03	21.82	50	PASS
				RB1#5	24.09	21.88	50	PASS
				RB3#0	24.04	21.83	50	PASS
				RB3#2	24.02	21.81	50	PASS
				RB3#3	24.06	21.85	50	PASS
				RB6#0	23.07	20.86	50	PASS
		3	LCH	RB1#0	23.97	21.76	50	PASS
				RB1#7	24	21.79	50	PASS
				RB1#14	23.92	21.71	50	PASS
				RB8#0	23.02	20.81	50	PASS
				RB8#4	22.88	20.67	50	PASS
				RB8#7	22.92	20.71	50	PASS
				RB15#0	23	20.79	50	PASS
			MCH	RB1#0	24.05	21.84	50	PASS
				RB1#7	24	21.79	50	PASS
				RB1#14	24.01	21.8	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	22.99	20.78	50	PASS
				RB8#4	23.1	20.89	50	PASS
				RB8#7	23.04	20.83	50	PASS
				RB15#0	22.97	20.76	50	PASS
			HCH	RB1#0	24.36	22.15	50	PASS
				RB1#7	24.21	22	50	PASS
				RB1#14	24.14	21.93	50	PASS
				RB8#0	23.21	21	50	PASS
				RB8#4	23.02	20.81	50	PASS
				RB8#7	23.14	20.93	50	PASS
				RB15#0	23.06	20.85	50	PASS
		5	LCH	RB1#0	24.07	21.86	50	PASS
				RB1#13	24.14	21.93	50	PASS
				RB1#24	24.03	21.82	50	PASS
				RB12#0	22.82	20.61	50	PASS
				RB12#6	23.01	20.8	50	PASS
				RB12#13	22.95	20.74	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.92	20.71	50	PASS
			MCH	RB1#0	24.02	21.81	50	PASS
				RB1#13	24.09	21.88	50	PASS
				RB1#24	24.22	22.01	50	PASS
				RB12#0	22.88	20.67	50	PASS
				RB12#6	23.13	20.92	50	PASS
				RB12#13	23.15	20.94	50	PASS
				RB25#0	23.03	20.82	50	PASS
			HCH	RB1#0	24.1	21.89	50	PASS
				RB1#13	24.28	22.07	50	PASS
				RB1#24	24.1	21.89	50	PASS
				RB12#0	23.02	20.81	50	PASS
				RB12#6	23.25	21.04	50	PASS
				RB12#13	23	20.79	50	PASS
				RB25#0	23.21	21	50	PASS
		10	MCH	RB1#0	24	21.79	50	PASS
				RB1#25	24.02	21.81	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	24.21	22	50	PASS
				RB25#0	22.83	20.62	50	PASS
				RB25#13	22.91	20.7	50	PASS
				RB25#25	23.28	21.07	50	PASS
				RB50#0	23.07	20.86	50	PASS
	LTE/TM2	1.4	LCH	RB1#0	23.16	20.95	50	PASS
				RB1#3	22.89	20.68	50	PASS
				RB1#5	23.23	21.02	50	PASS
				RB3#0	22.97	20.76	50	PASS
				RB3#2	22.87	20.66	50	PASS
				RB3#3	22.95	20.74	50	PASS
				RB6#0	22.01	19.8	50	PASS
			MCH	RB1#0	23.1	20.89	50	PASS
				RB1#3	23.09	20.88	50	PASS
				RB1#5	23.29	21.08	50	PASS
				RB3#0	22.93	20.72	50	PASS
				RB3#2	23.15	20.94	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#3	23.1	20.89	50	PASS
				RB6#0	22.18	19.97	50	PASS
			HCH	RB1#0	23.28	21.07	50	PASS
				RB1#3	23.36	21.15	50	PASS
				RB1#5	23.43	21.22	50	PASS
				RB3#0	23.08	20.87	50	PASS
				RB3#2	23.22	21.01	50	PASS
				RB3#3	23.24	21.03	50	PASS
				RB6#0	22.15	19.94	50	PASS
		3	LCH	RB1#0	23.44	21.23	50	PASS
				RB1#7	23.13	20.92	50	PASS
				RB1#14	23.26	21.05	50	PASS
				RB8#0	21.8	19.59	50	PASS
				RB8#4	21.95	19.74	50	PASS
				RB8#7	21.96	19.75	50	PASS
				RB15#0	22.06	19.85	50	PASS
			MCH	RB1#0	23.07	20.86	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#7	23.22	21.01	50	PASS
				RB1#14	23.25	21.04	50	PASS
				RB8#0	21.89	19.68	50	PASS
				RB8#4	22.05	19.84	50	PASS
				RB8#7	22.07	19.86	50	PASS
				RB15#0	22.04	19.83	50	PASS
			HCH	RB1#0	23.38	21.17	50	PASS
				RB1#7	23.38	21.17	50	PASS
				RB1#14	23.17	20.96	50	PASS
				RB8#0	22.22	20.01	50	PASS
				RB8#4	22.1	19.89	50	PASS
				RB8#7	22.01	19.8	50	PASS
				RB15#0	22.04	19.83	50	PASS
		5	LCH	RB1#0	23.4	21.19	50	PASS
				RB1#13	23.28	21.07	50	PASS
				RB1#24	23.33	21.12	50	PASS
				RB12#0	21.79	19.58	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#6	22.08	19.87	50	PASS
				RB12#13	22.02	19.81	50	PASS
				RB25#0	21.93	19.72	50	PASS
			MCH	RB1#0	23.17	20.96	50	PASS
				RB1#13	23.35	21.14	50	PASS
				RB1#24	23.41	21.2	50	PASS
				RB12#0	21.9	19.69	50	PASS
				RB12#6	21.92	19.71	50	PASS
				RB12#13	22.17	19.96	50	PASS
				RB25#0	22.08	19.87	50	PASS
			HCH	RB1#0	23.52	21.31	50	PASS
				RB1#13	23.67	21.46	50	PASS
				RB1#24	23.59	21.38	50	PASS
				RB12#0	22.04	19.83	50	PASS
				RB12#6	22.28	20.07	50	PASS
				RB12#13	22.07	19.86	50	PASS
				RB25#0	22.16	19.95	50	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
		10	MCH	RB1#0	23.3	21.09	50	PASS
				RB1#25	23.34	21.13	50	PASS
				RB1#49	23.52	21.31	50	PASS
				RB25#0	21.8	19.59	50	PASS
				RB25#13	21.89	19.68	50	PASS
				RB25#25	22.3	20.09	50	PASS
				RB50#0	22.05	19.84	50	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
Band26(814-824MHz)	LTE/TM1	1.4	LCH	RB1#0	3.72	13	PASS
				RB1#3	3.88	13	PASS
				RB1#5	3.82	13	PASS
				RB3#0	4.37	13	PASS
				RB3#2	4.42	13	PASS
				RB3#3	4.38	13	PASS
				RB6#0	5.37	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#3	4.04	13	PASS
				RB1#5	4.15	13	PASS
				RB3#0	4.89	13	PASS
				RB3#2	5.05	13	PASS
				RB3#3	4.88	13	PASS
				RB6#0	5.55	13	PASS
			HCH	RB1#0	4.11	13	PASS
				RB1#3	4.22	13	PASS
				RB1#5	4.42	13	PASS
				RB3#0	4.60	13	PASS
				RB3#2	4.56	13	PASS
				RB3#3	4.62	13	PASS
				RB6#0	5.59	13	PASS
		3	LCH	RB1#0	3.59	13	PASS
				RB1#7	3.82	13	PASS
				RB1#14	4.06	13	PASS
				RB8#0	5.19	13	PASS
				RB8#4	5.28	13	PASS
				RB8#7	5.33	13	PASS
				RB15#0	5.55	13	PASS
			MCH	RB1#0	4.13	13	PASS
				RB1#7	4.54	13	PASS
				RB1#14	4.36	13	PASS
				RB8#0	5.42	13	PASS
				RB8#4	5.38	13	PASS
				RB8#7	5.47	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB15#0	5.65	13	PASS
			HCH	RB1#0	4.55	13	PASS
				RB1#7	4.27	13	PASS
				RB1#14	4.39	13	PASS
				RB8#0	5.37	13	PASS
				RB8#4	5.37	13	PASS
				RB8#7	5.41	13	PASS
				RB15#0	5.57	13	PASS
		5	LCH	RB1#0	3.93	13	PASS
				RB1#13	4.13	13	PASS
				RB1#24	4.46	13	PASS
				RB12#0	5.53	13	PASS
				RB12#6	5.62	13	PASS
				RB12#13	5.62	13	PASS
				RB25#0	5.95	13	PASS
			MCH	RB1#0	4.03	13	PASS
				RB1#13	4.21	13	PASS
				RB1#24	4.13	13	PASS
				RB12#0	5.58	13	PASS
				RB12#6	5.59	13	PASS
				RB12#13	5.58	13	PASS
				RB25#0	5.77	13	PASS
			HCH	RB1#0	4.45	13	PASS
				RB1#13	4.39	13	PASS
				RB1#24	4.35	13	PASS
				RB12#0	5.83	13	PASS
				RB12#6	5.62	13	PASS
				RB12#13	6.02	13	PASS
				RB25#0	5.78	13	PASS
		10	MCH	RB1#0	3.90	13	PASS
				RB1#25	4.45	13	PASS
				RB1#49	4.26	13	PASS
				RB25#0	5.85	13	PASS
				RB25#13	5.89	13	PASS
				RB25#25	5.75	13	PASS
				RB50#0	6.09	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.63	13	PASS
				RB1#3	4.99	13	PASS
				RB1#5	5.06	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB3#0	5.18	13	PASS
				RB3#2	5.35	13	PASS
				RB3#3	5.46	13	PASS
				RB6#0	6.19	13	PASS
			MCH	RB1#0	5.18	13	PASS
				RB1#3	5.17	13	PASS
				RB1#5	5.20	13	PASS
				RB3#0	5.64	13	PASS
				RB3#2	5.76	13	PASS
				RB3#3	5.78	13	PASS
				RB6#0	6.51	13	PASS
			HCH	RB1#0	5.12	13	PASS
				RB1#3	5.07	13	PASS
				RB1#5	5.02	13	PASS
				RB3#0	5.73	13	PASS
				RB3#2	5.68	13	PASS
				RB3#3	5.61	13	PASS
				RB6#0	6.67	13	PASS
		3	LCH	RB1#0	4.29	13	PASS
				RB1#7	4.78	13	PASS
				RB1#14	4.97	13	PASS
				RB8#0	6.20	13	PASS
				RB8#4	6.21	13	PASS
				RB8#7	6.28	13	PASS
				RB15#0	6.47	13	PASS
			MCH	RB1#0	5.22	13	PASS
				RB1#7	5.22	13	PASS
				RB1#14	5.26	13	PASS
				RB8#0	6.33	13	PASS
				RB8#4	6.31	13	PASS
				RB8#7	6.33	13	PASS
				RB15#0	6.71	13	PASS
			HCH	RB1#0	5.35	13	PASS
				RB1#7	4.83	13	PASS
				RB1#14	5.22	13	PASS
				RB8#0	6.37	13	PASS
				RB8#4	6.37	13	PASS
				RB8#7	6.40	13	PASS
				RB15#0	6.50	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		5	LCH	RB1#0	4.85	13	PASS
				RB1#13	5.07	13	PASS
				RB1#24	5.31	13	PASS
				RB12#0	6.36	13	PASS
				RB12#6	6.15	13	PASS
				RB12#13	6.77	13	PASS
				RB25#0	6.84	13	PASS
			MCH	RB1#0	4.95	13	PASS
				RB1#13	5.04	13	PASS
				RB1#24	5.05	13	PASS
				RB12#0	6.65	13	PASS
				RB12#6	6.58	13	PASS
				RB12#13	6.58	13	PASS
				RB25#0	6.95	13	PASS
			HCH	RB1#0	5.04	13	PASS
				RB1#13	4.99	13	PASS
				RB1#24	4.90	13	PASS
				RB12#0	6.36	13	PASS
				RB12#6	6.53	13	PASS
				RB12#13	6.53	13	PASS
				RB25#0	6.48	13	PASS
		10	MCH	RB1#0	4.79	13	PASS
				RB1#25	4.95	13	PASS
				RB1#49	4.86	13	PASS
				RB25#0	6.65	13	PASS
				RB25#13	6.71	13	PASS
				RB25#25	6.59	13	PASS
				RB50#0	6.89	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

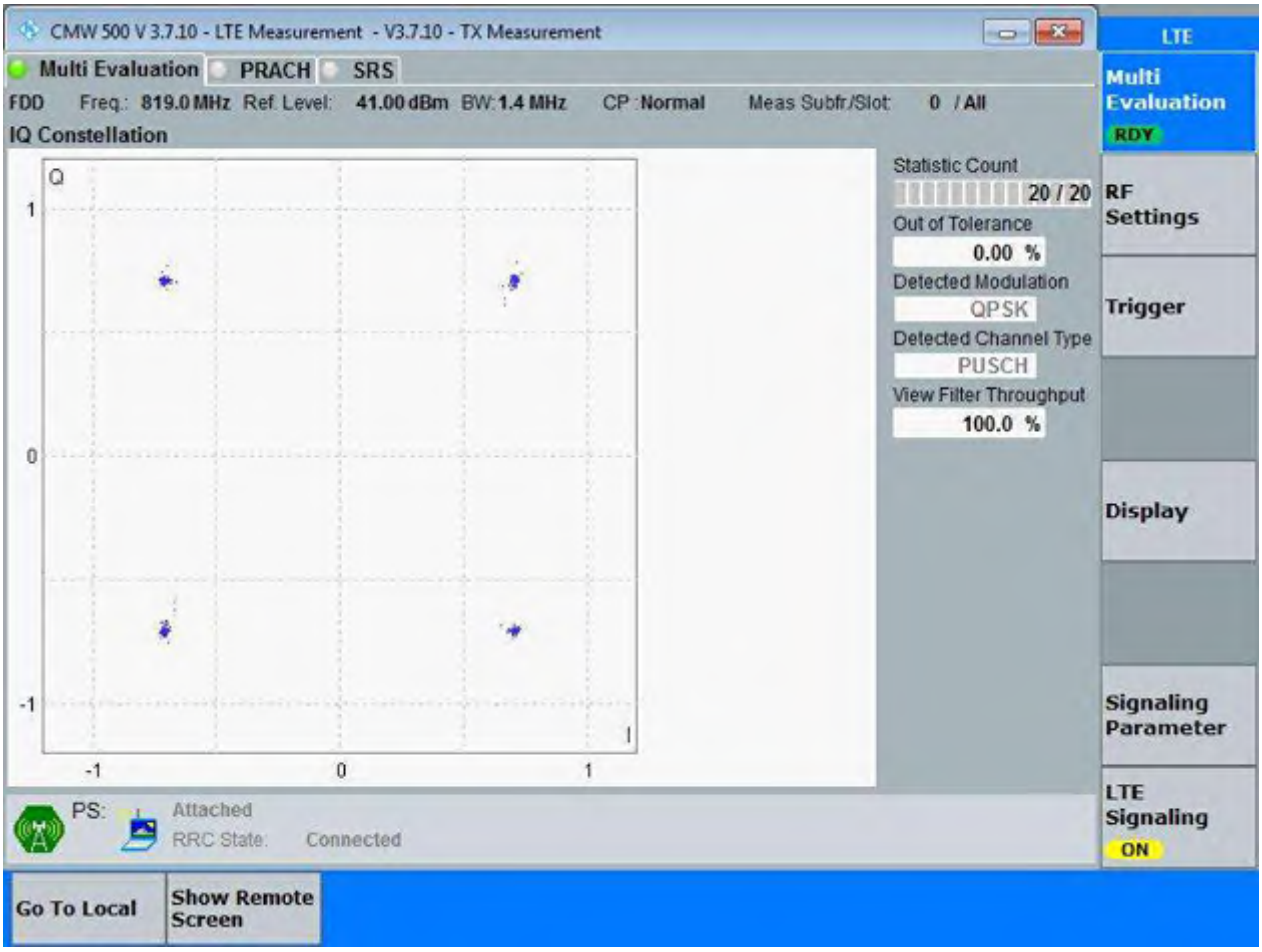
3.1.1 Test Band = Band26(814-824MHz)

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

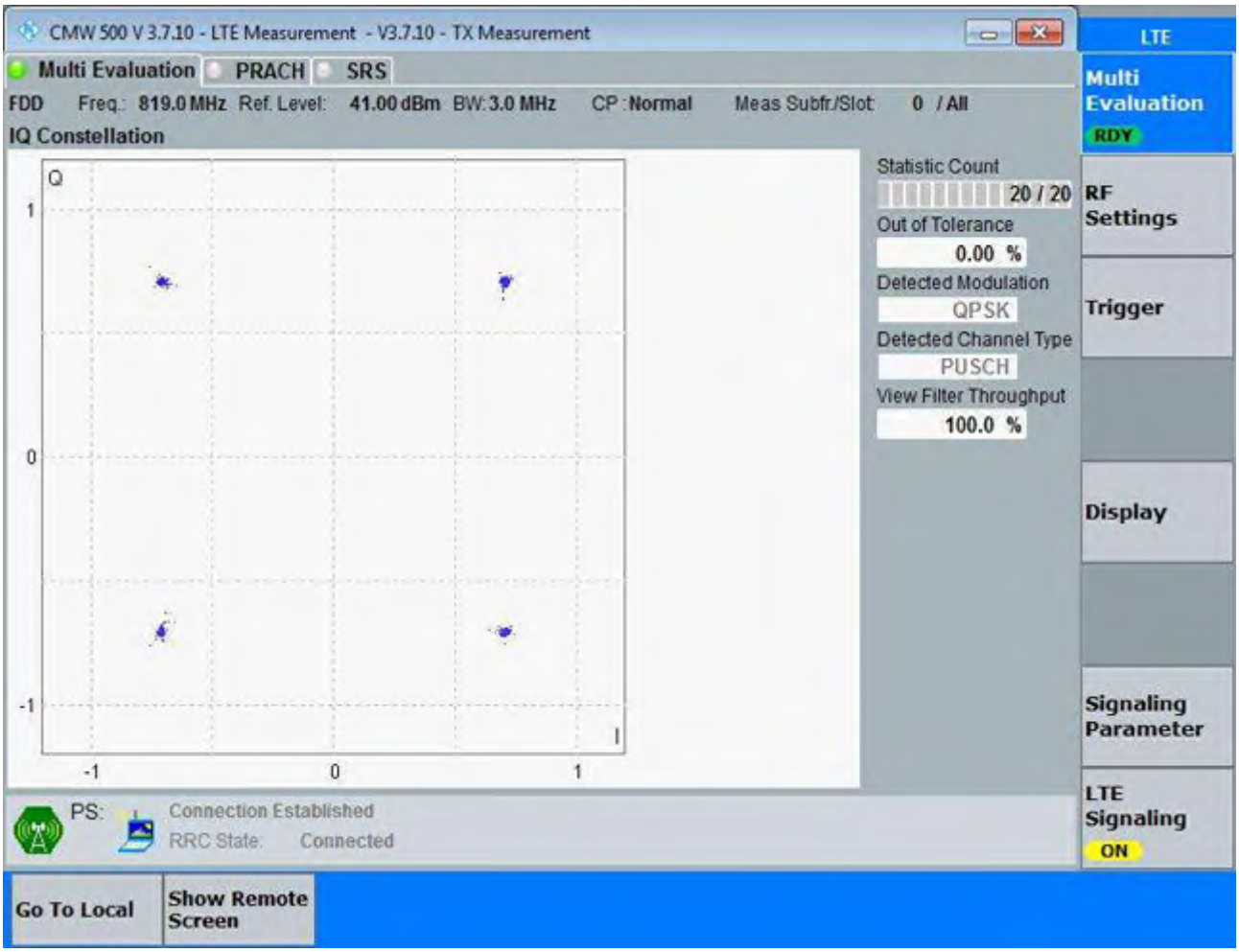
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

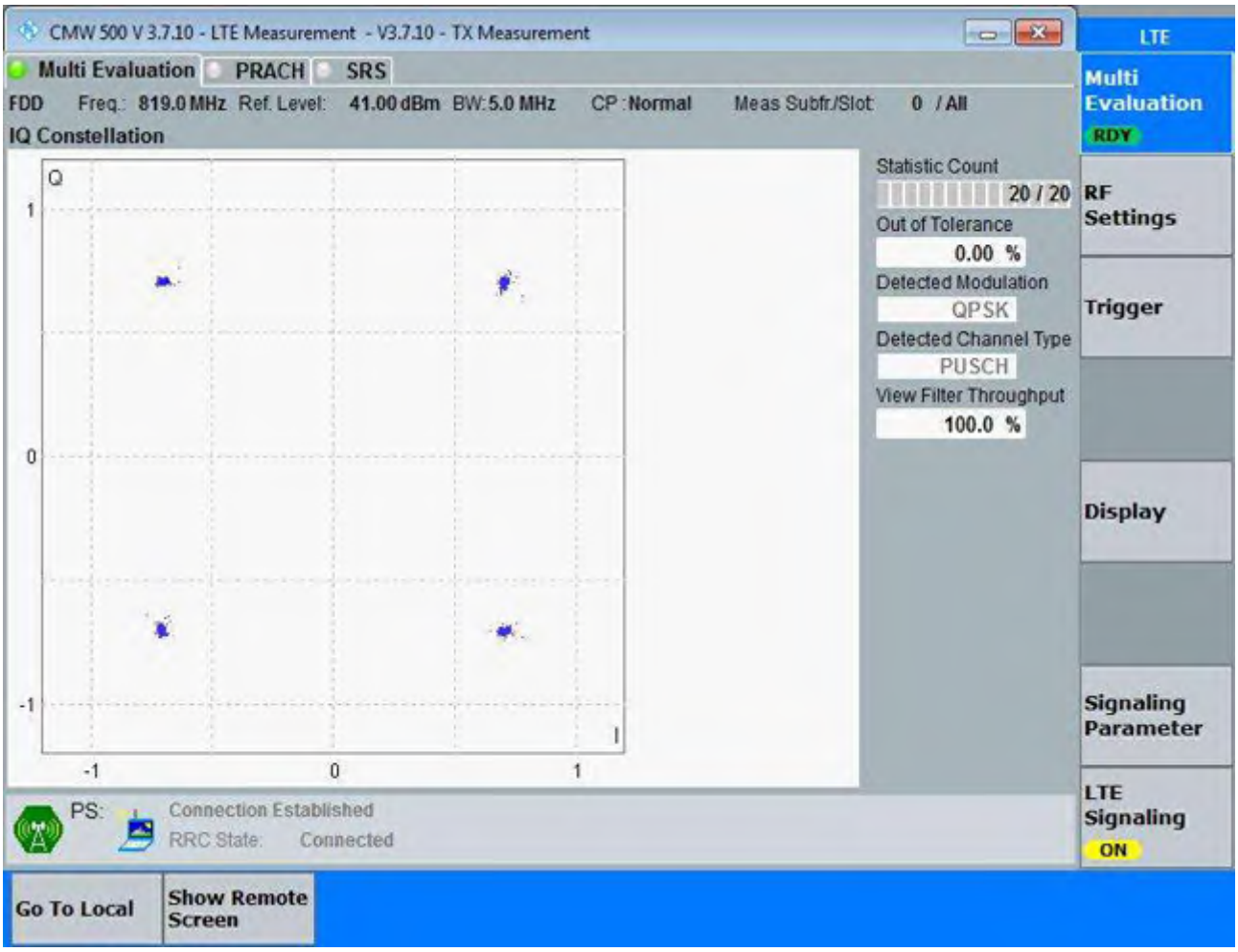
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

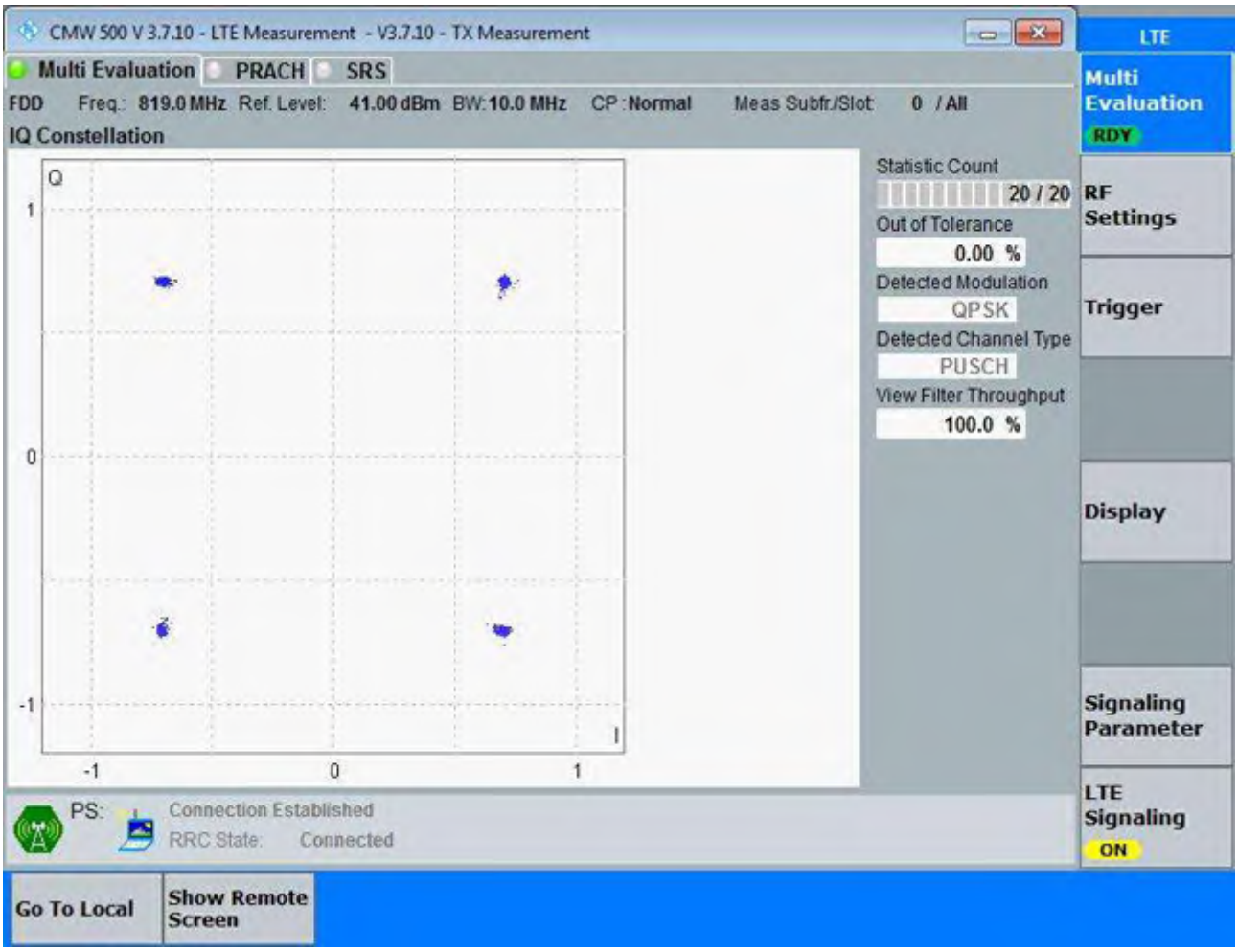
3.1.1.1.3.1.1 Test RB = RB25#0



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

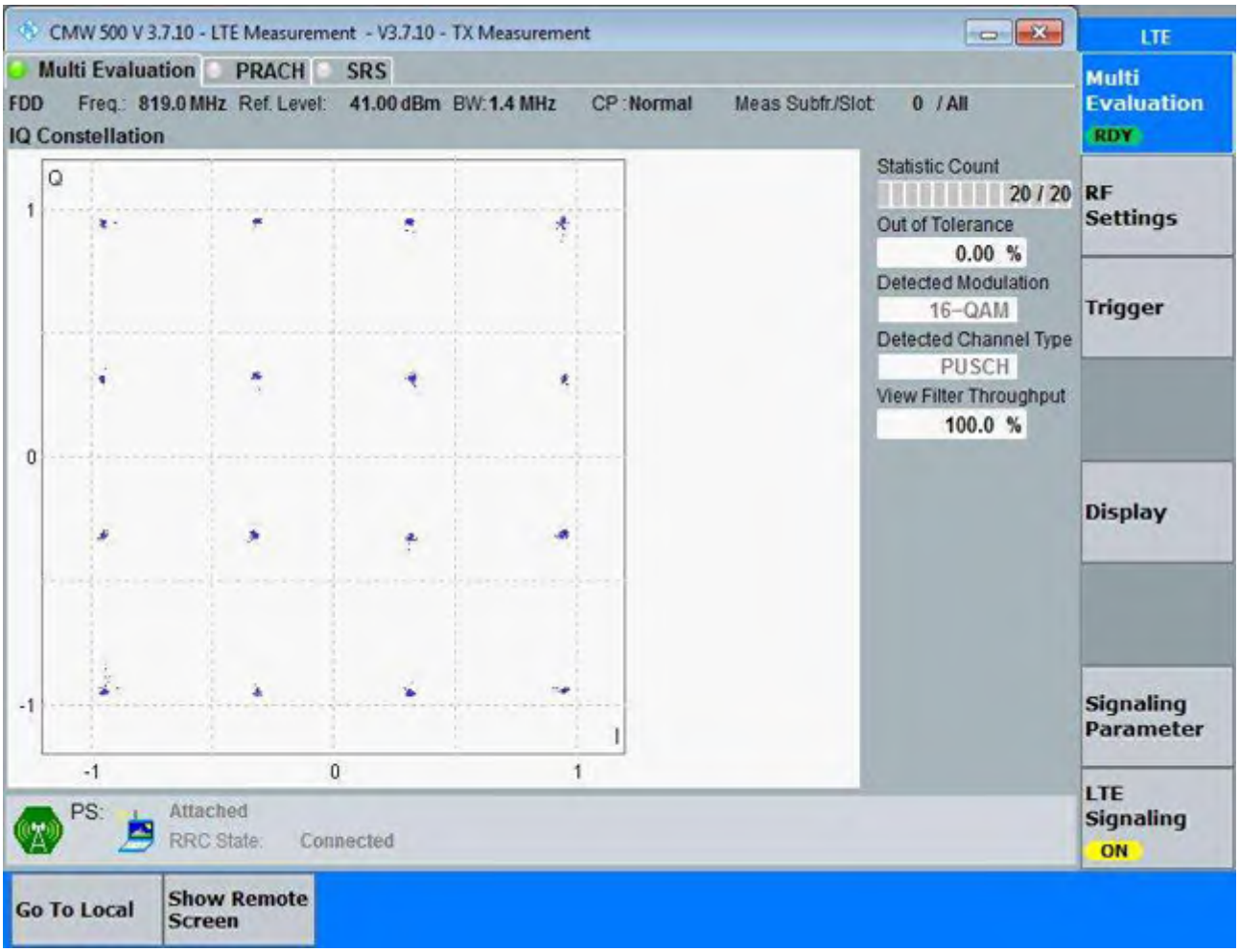


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

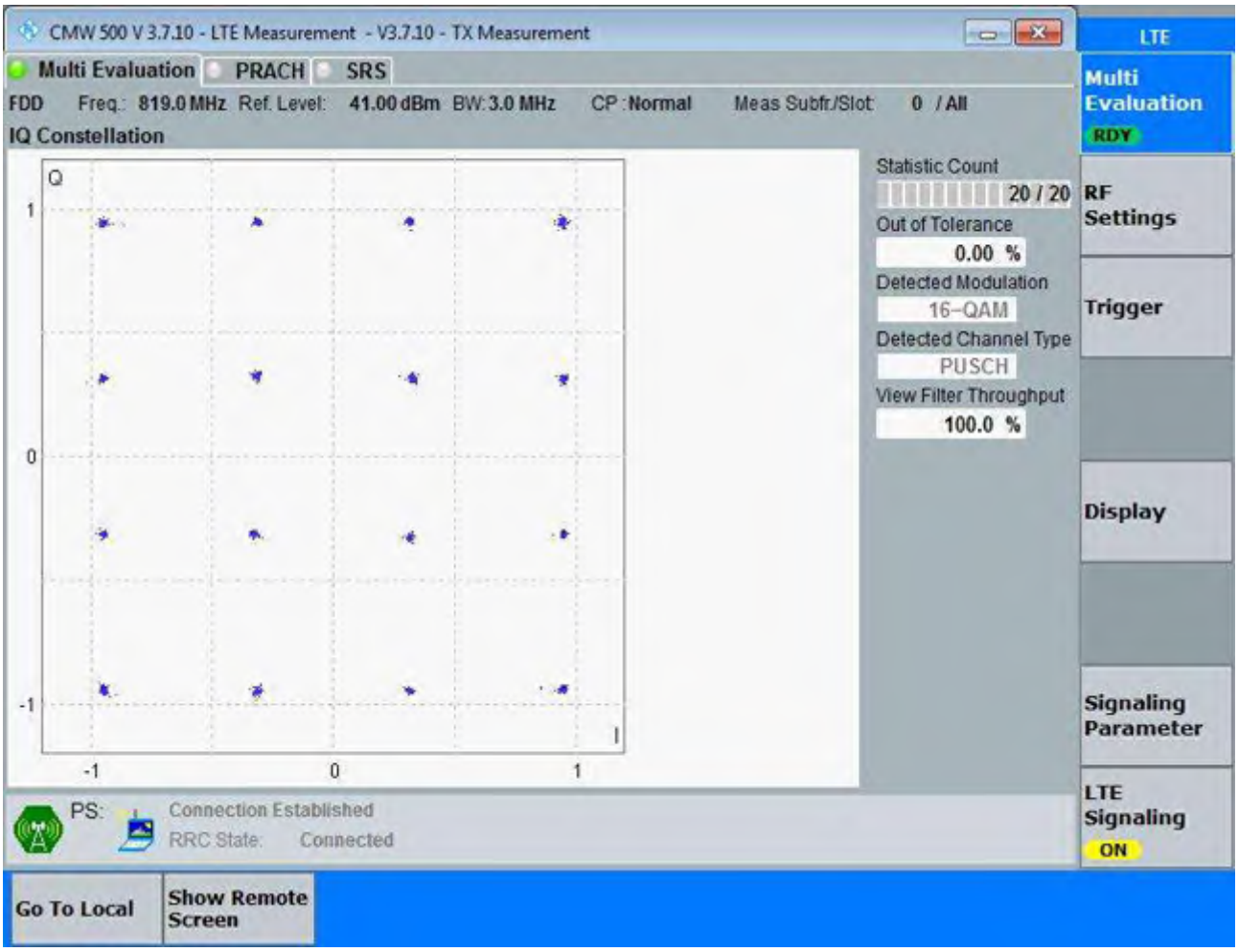
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

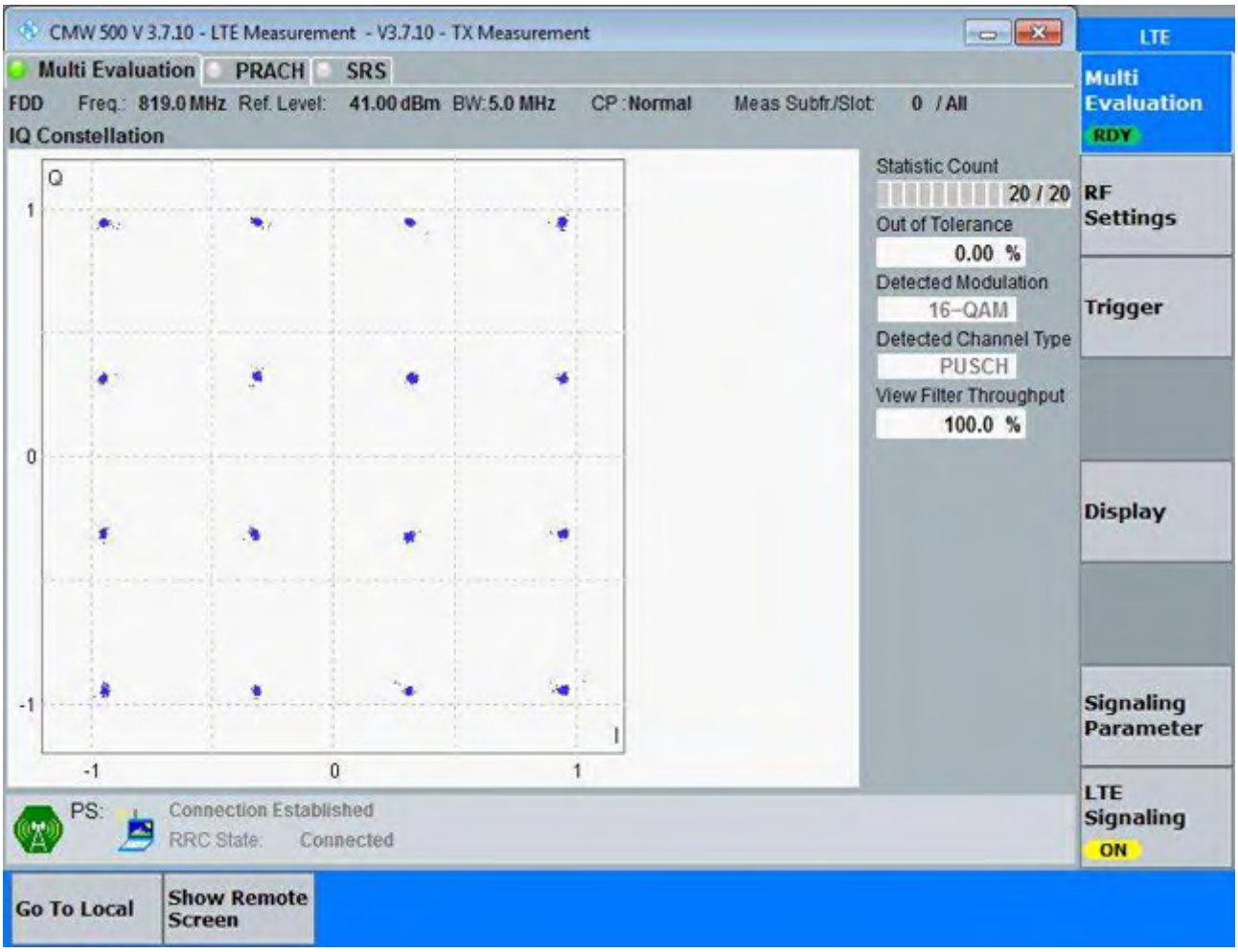
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

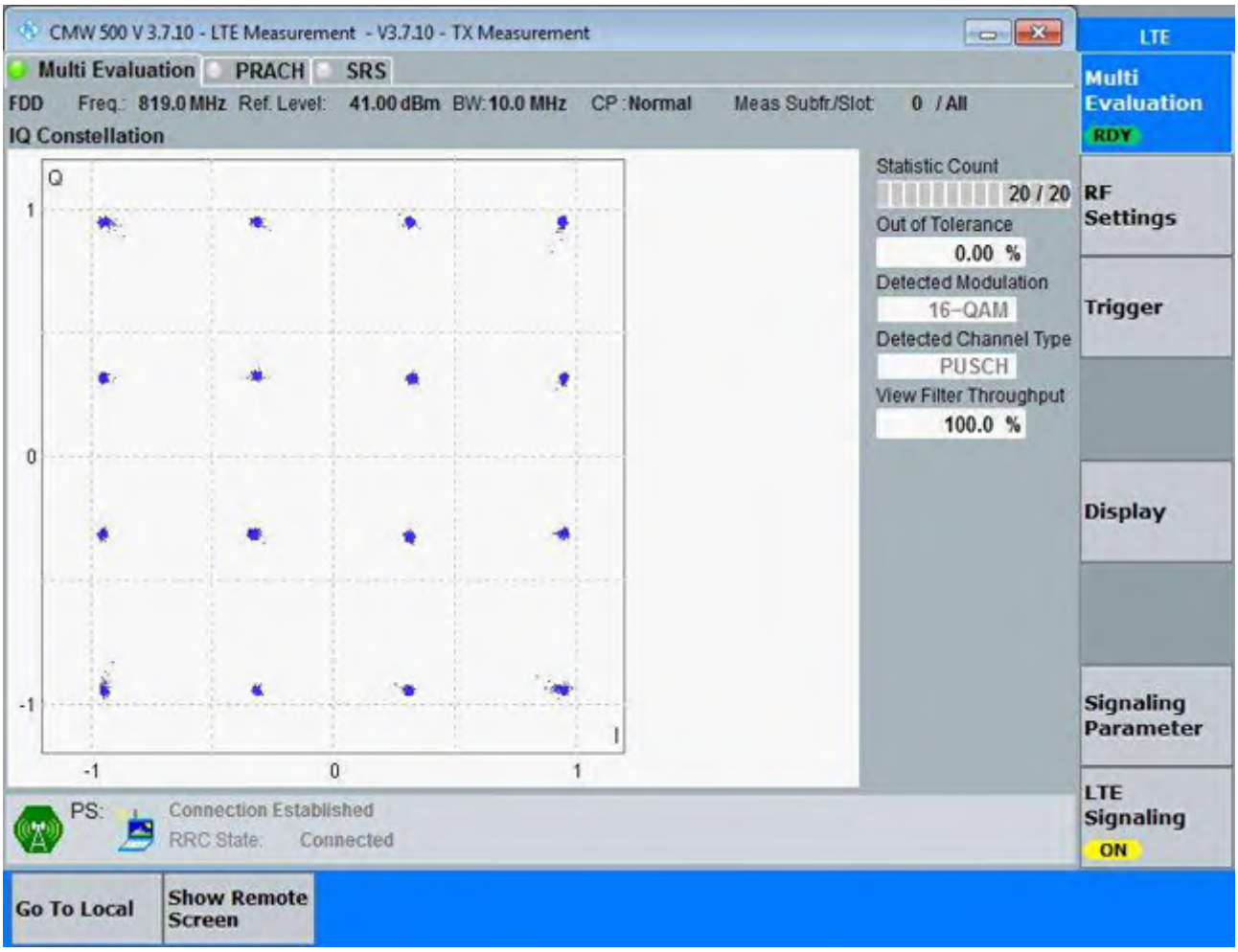
3.1.1.2.3.1.1 Test RB = RB25#0



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



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band26 (814-824MHz)	LTE/TM1	1.4	LCH	RB6#0	1.10	1.25	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	3.00	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.71	2.99	Pass
		5	LCH	RB25#0	4.52	4.98	Pass
			MCH	RB25#0	4.52	4.95	Pass
			HCH	RB25#0	4.52	4.99	Pass
		10	MCH	RB50#0	9.00	9.96	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.24	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.72	2.98	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.71	2.99	Pass
		5	LCH	RB25#0	4.52	4.99	Pass
			MCH	RB25#0	4.51	4.99	Pass
			HCH	RB25#0	4.52	4.94	Pass
		10	MCH	RB50#0	9.03	9.95	Pass

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = Band26(814-824MHz)

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 = MCH

4.1.1.1.4.1.1 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

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 = MCH

4.1.1.2.4.1.1 Test RB = RB50#0

5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = Band26(814-824MHz)

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

5.1.1.1.1.1.3 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

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

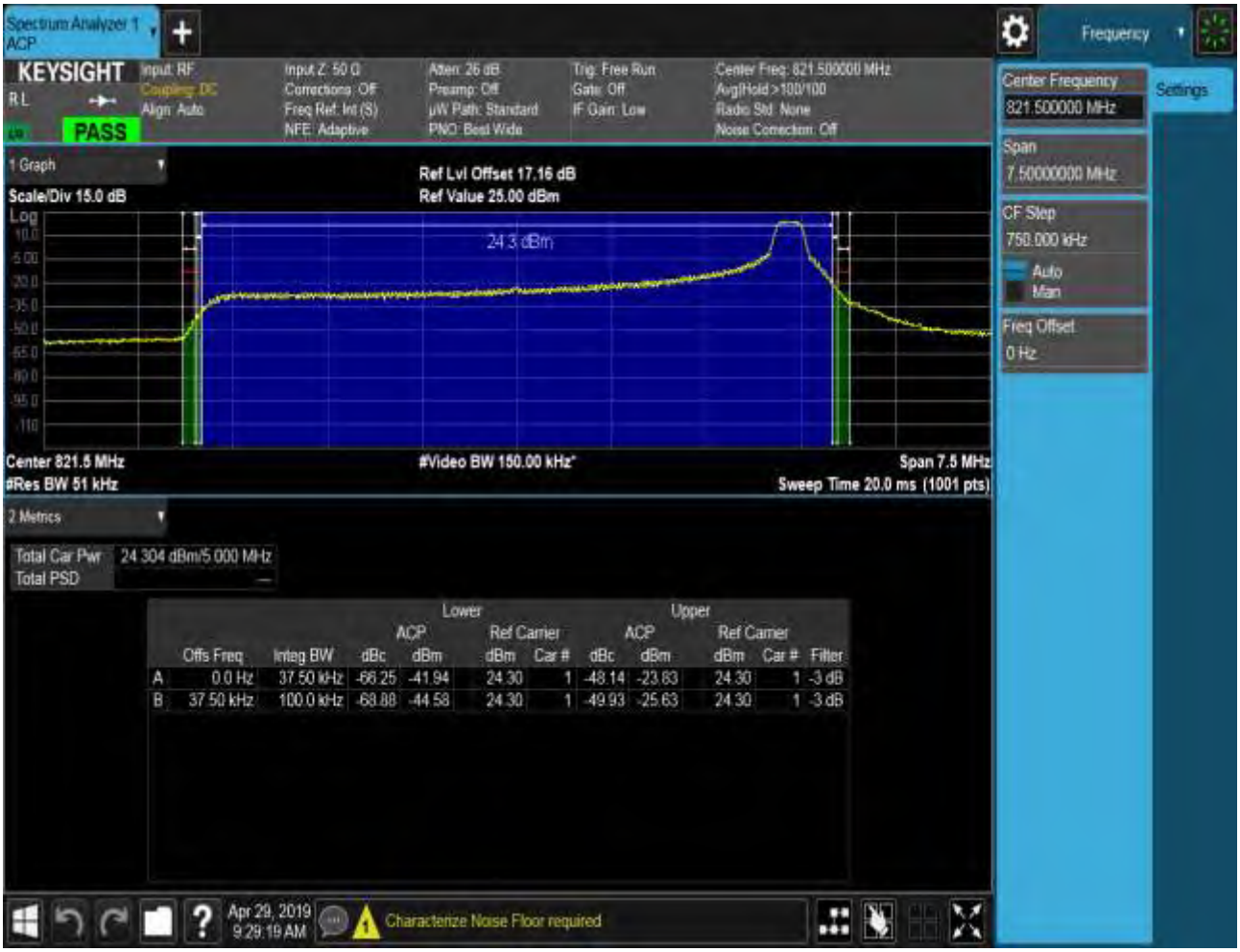
5.1.1.1.3.1.3 Test RB = RB12#6

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



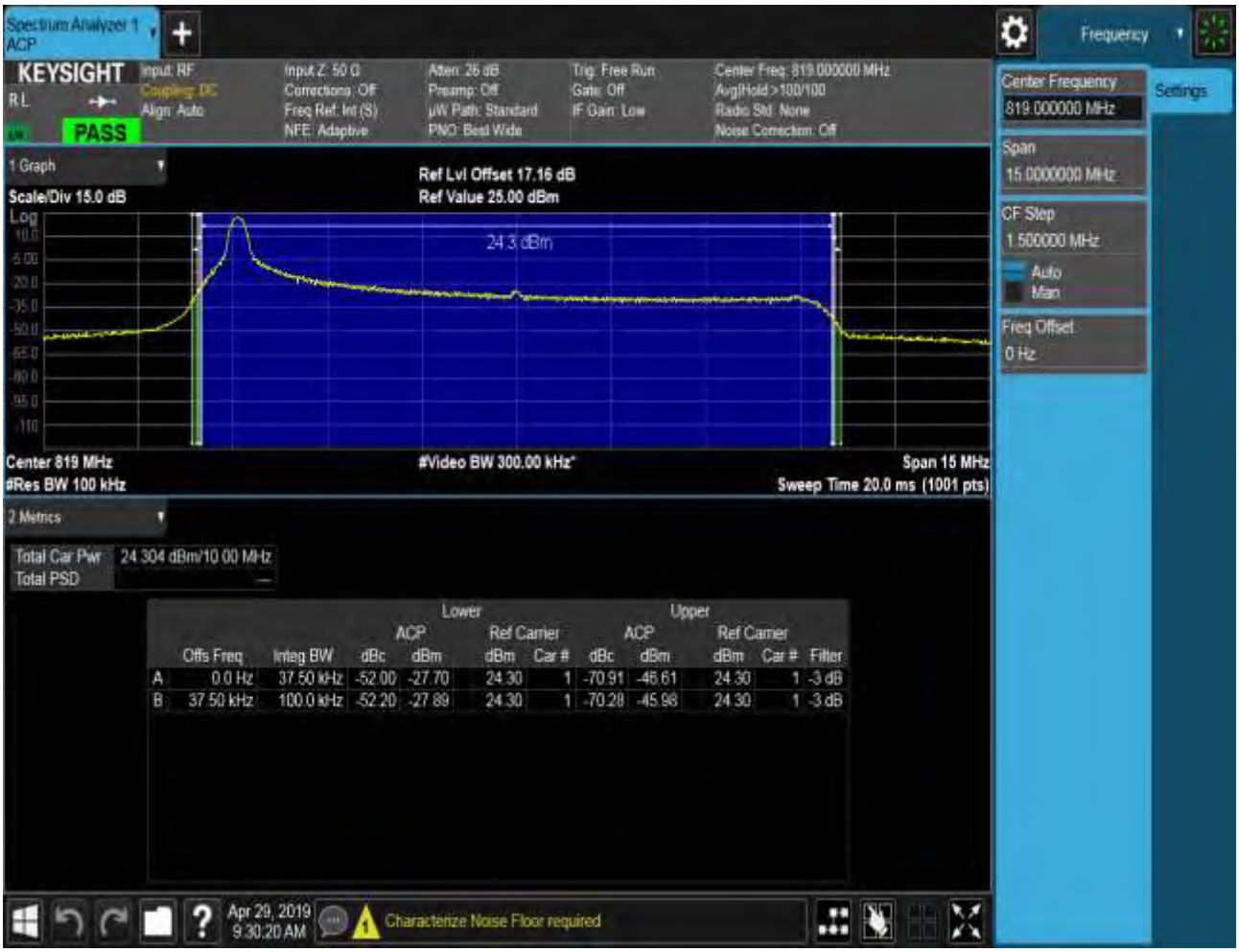
5.1.1.1.3.2.3 Test RB = RB12#6

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



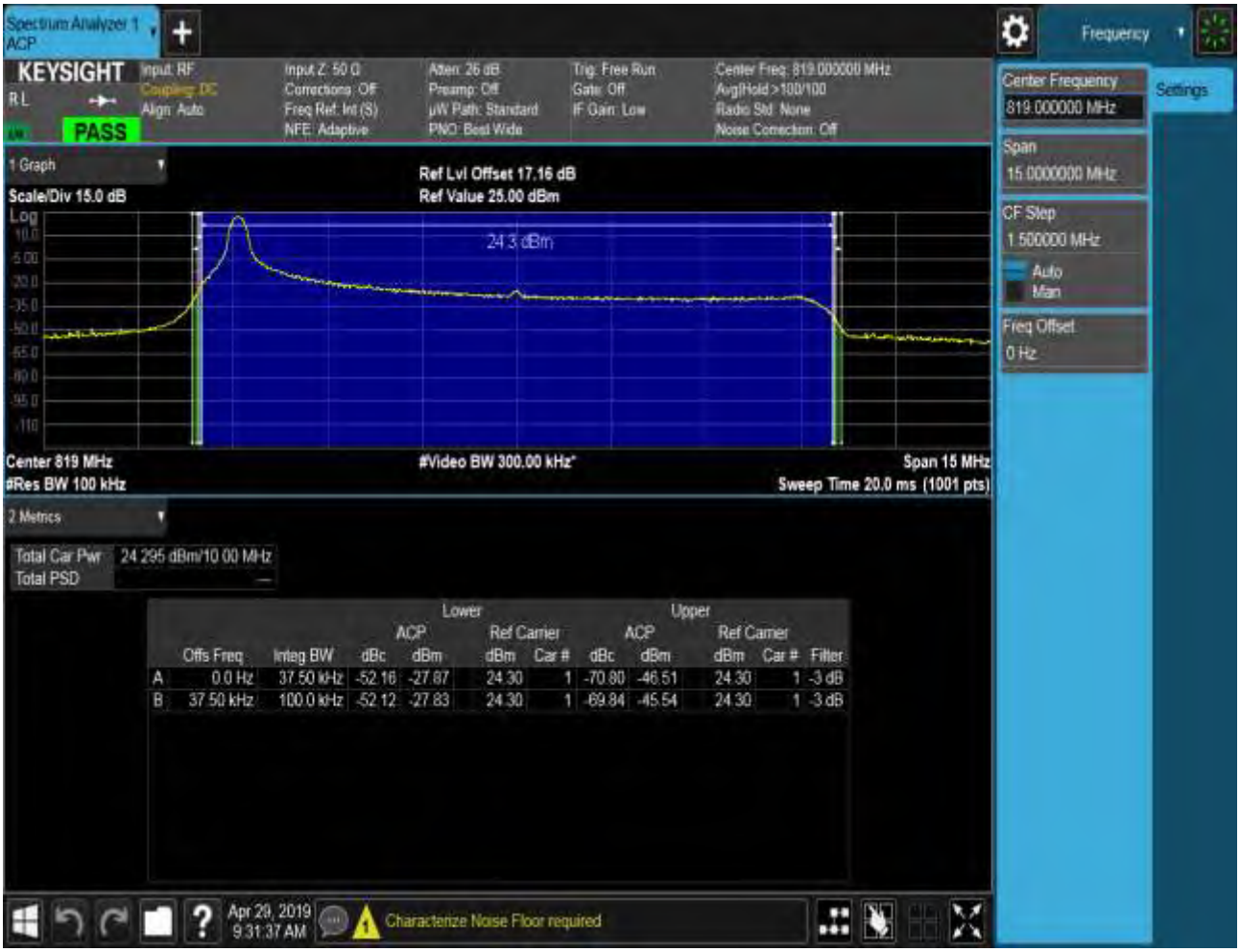
5.1.1.1.4.1.2 Test RB = RB1#49

5.1.1.1.4.1.3 Test RB = RB25#13

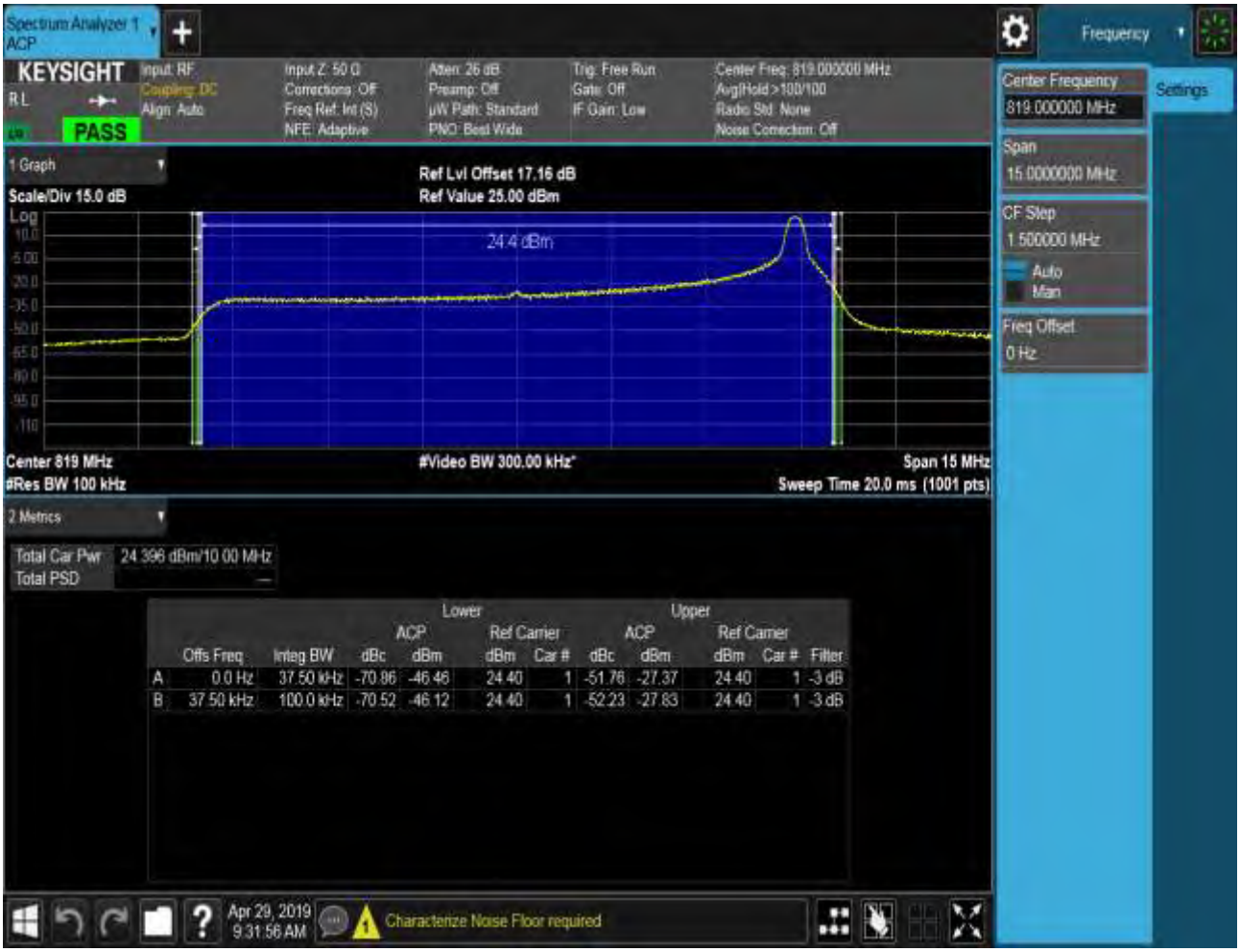
5.1.1.1.4.1.4 Test RB = RB50#0

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

5.1.1.2 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 Test RB = RB1#14

5.1.1.2.2.3 Test RB = RB8#4

5.1.1.2.2.2.4 Test RB = RB15#0

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

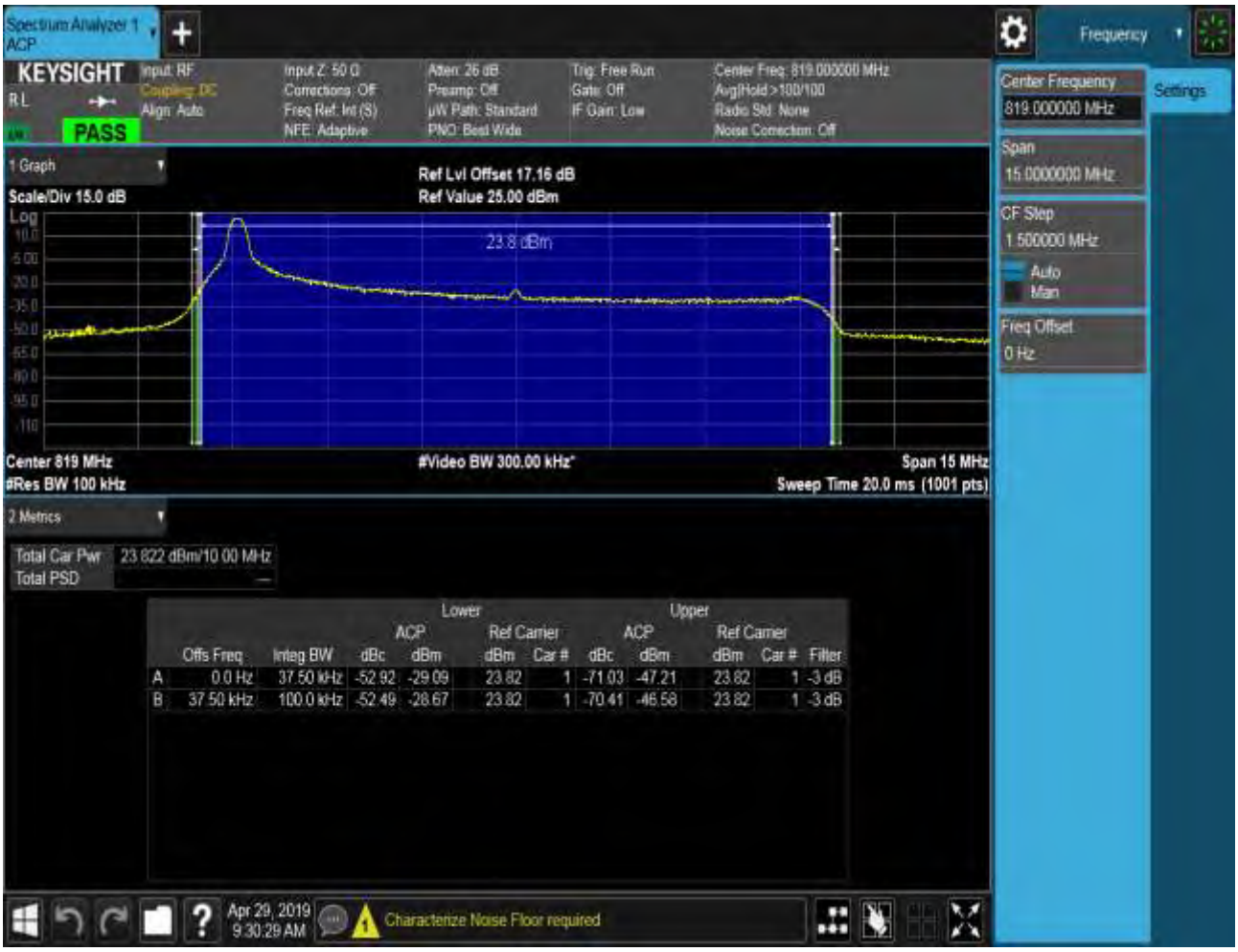
5.1.1.2.3.2.3 Test RB = RB12#6

5.1.1.2.3.2.4 Test RB = RB25#0

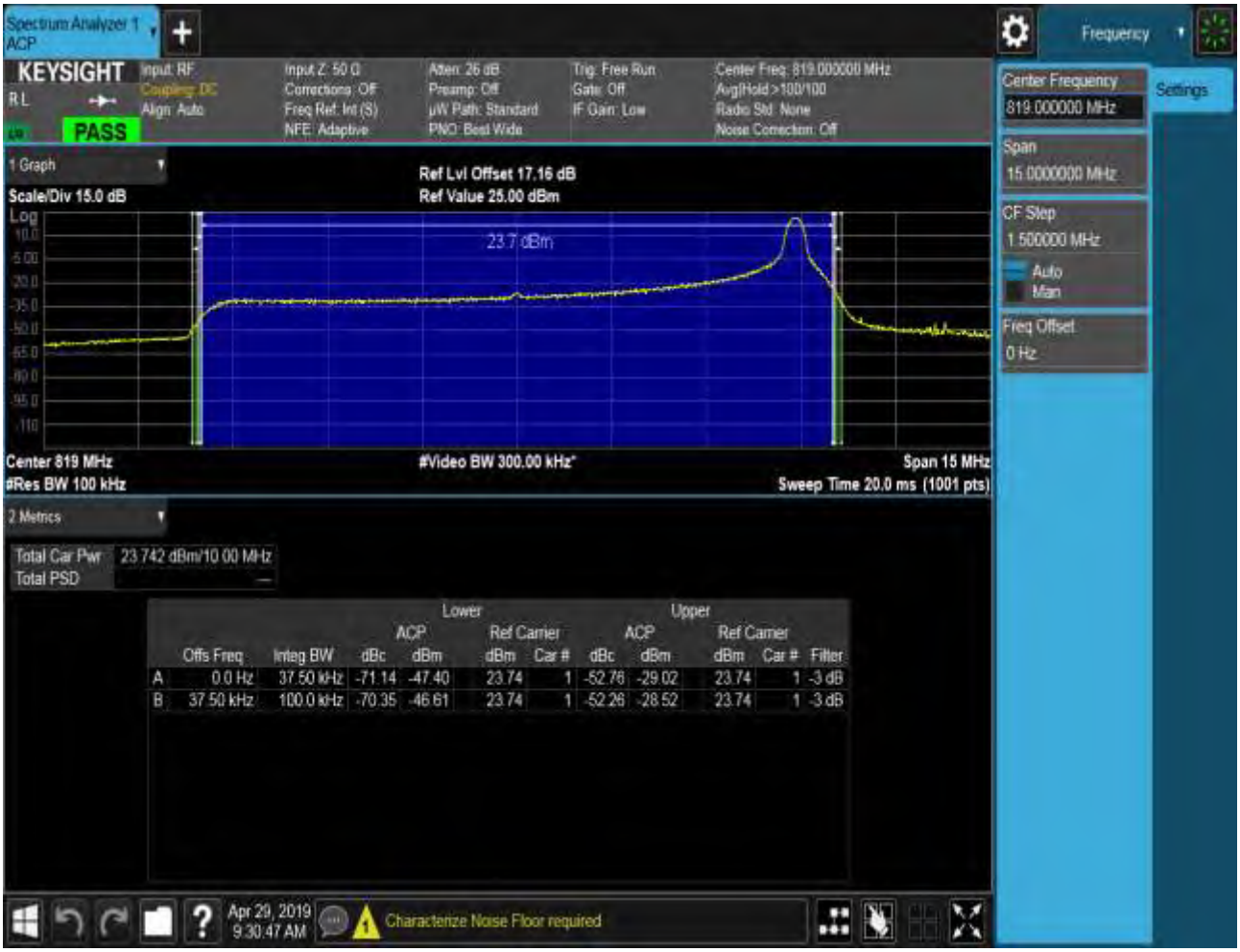
5.1.1.2.4 Test Bandwidth = 10

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

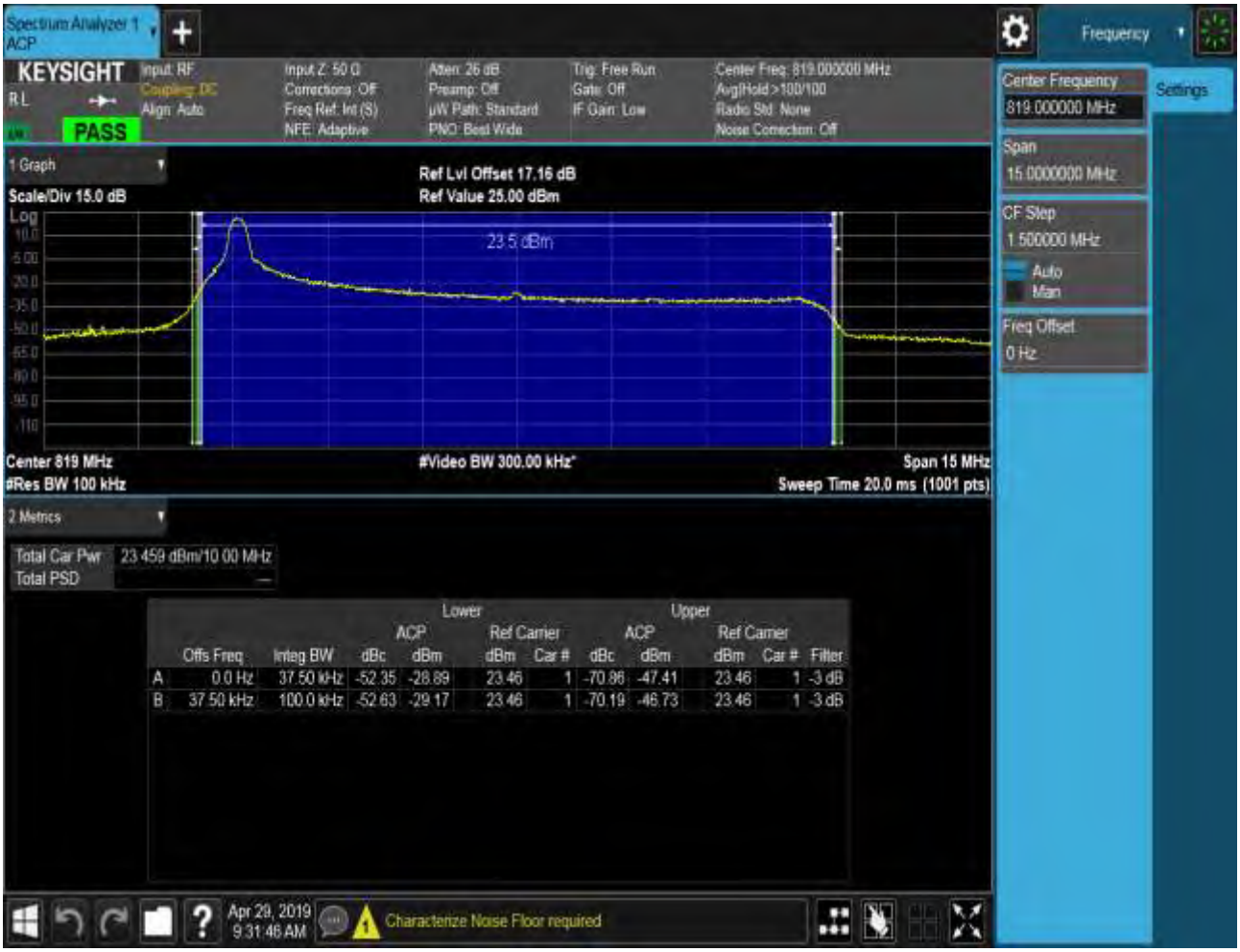


5.1.1.2.4.1.3 Test RB = RB25#13

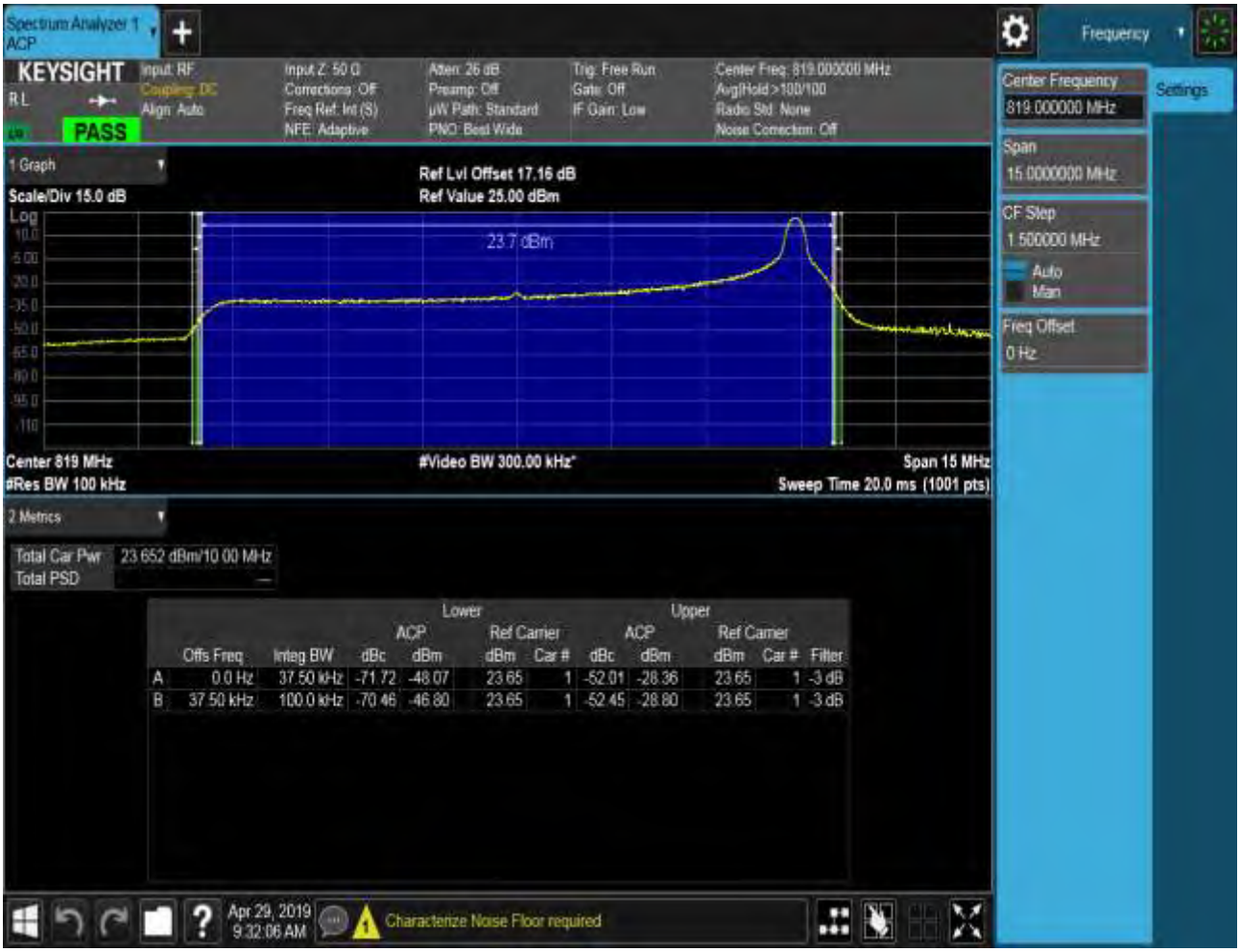
5.1.1.2.4.1.4 Test RB = RB50#0

5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



5.1.1.2.4.2.2 Test RB = RB1#49



5.1.1.2.4.2.3 Test RB = RB25#13

5.1.1.2.4.2.4 Test RB = RB50#0

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = Band26(814-824MHz)

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 1.4

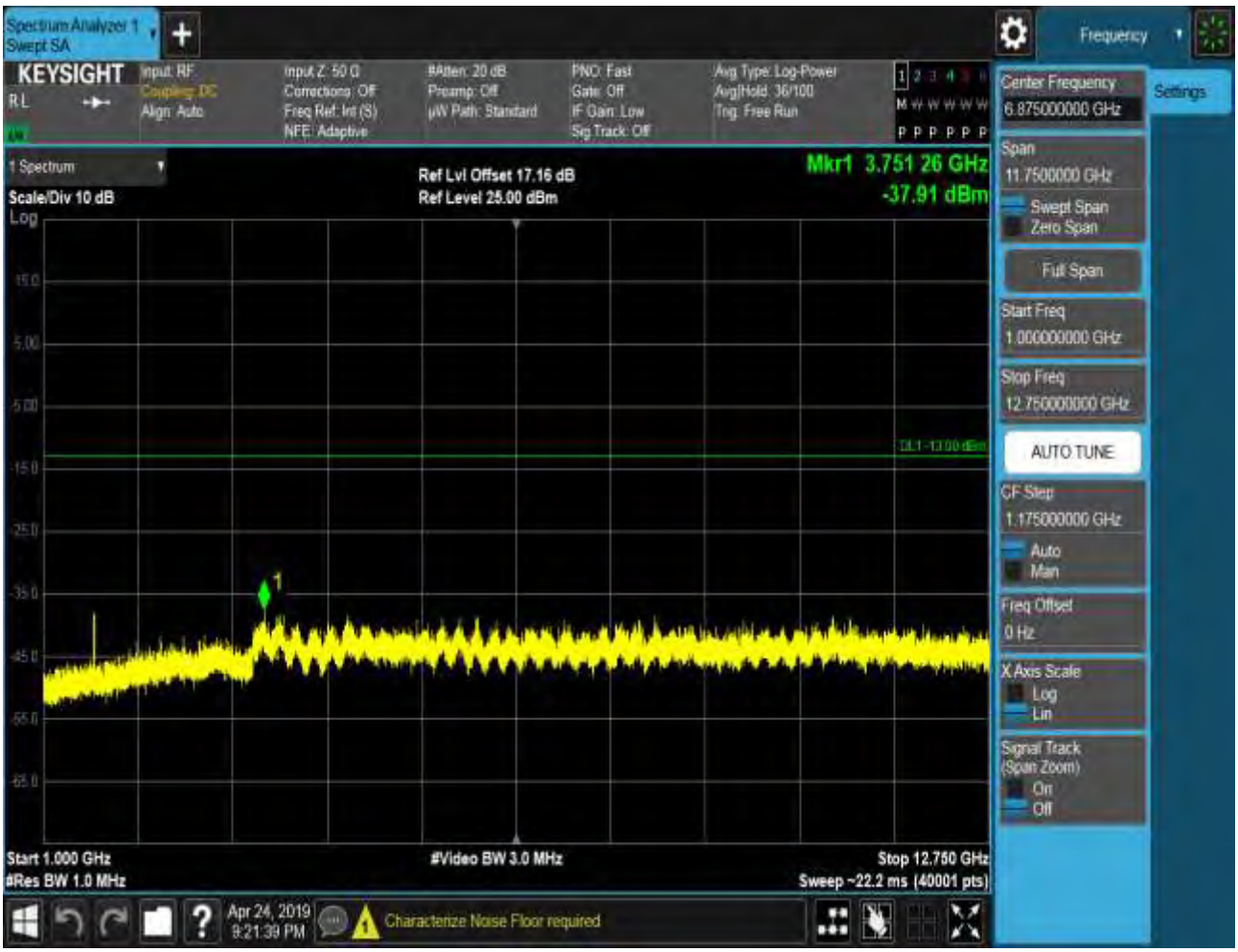
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
μW Path: Standard
PNO: Balanced
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
Frequency
Center Frequency
79.500 kHz
Settings
Span
141.000000 kHz
Swept Span
Zero Span
Full Span
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
AUTO TUNE
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 41.430 kHz
-65.67 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#Video BW 3.0 kHz
Stop 150.00 kHz
Sweep 1.00 ms (1001 pts)
Apr 24, 2019
9:21:10 PM
Characterize Noise Floor required


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 155.97 kHz
-62.66 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:21:20 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 982.860 MHz
-54.16 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:21:30 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 36/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.751 26 GHz
-37.91 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:21:39 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

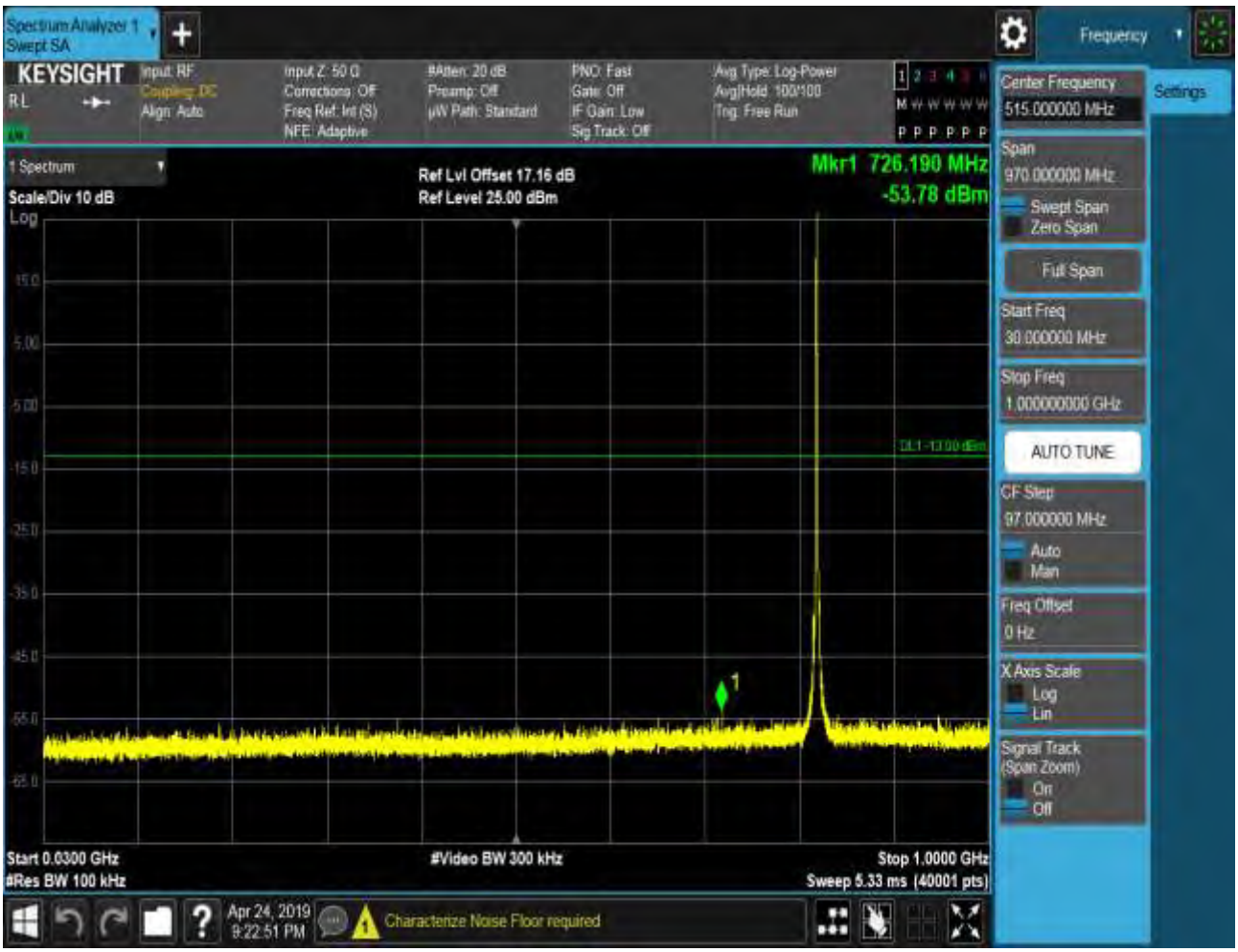

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 622.570 MHz
-54.48 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:24:12 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.951 60 GHz
-38.11 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:24:23 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 155.97 kHz
-63.18 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:22:42 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 726.190 MHz
-53.78 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:22:51 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

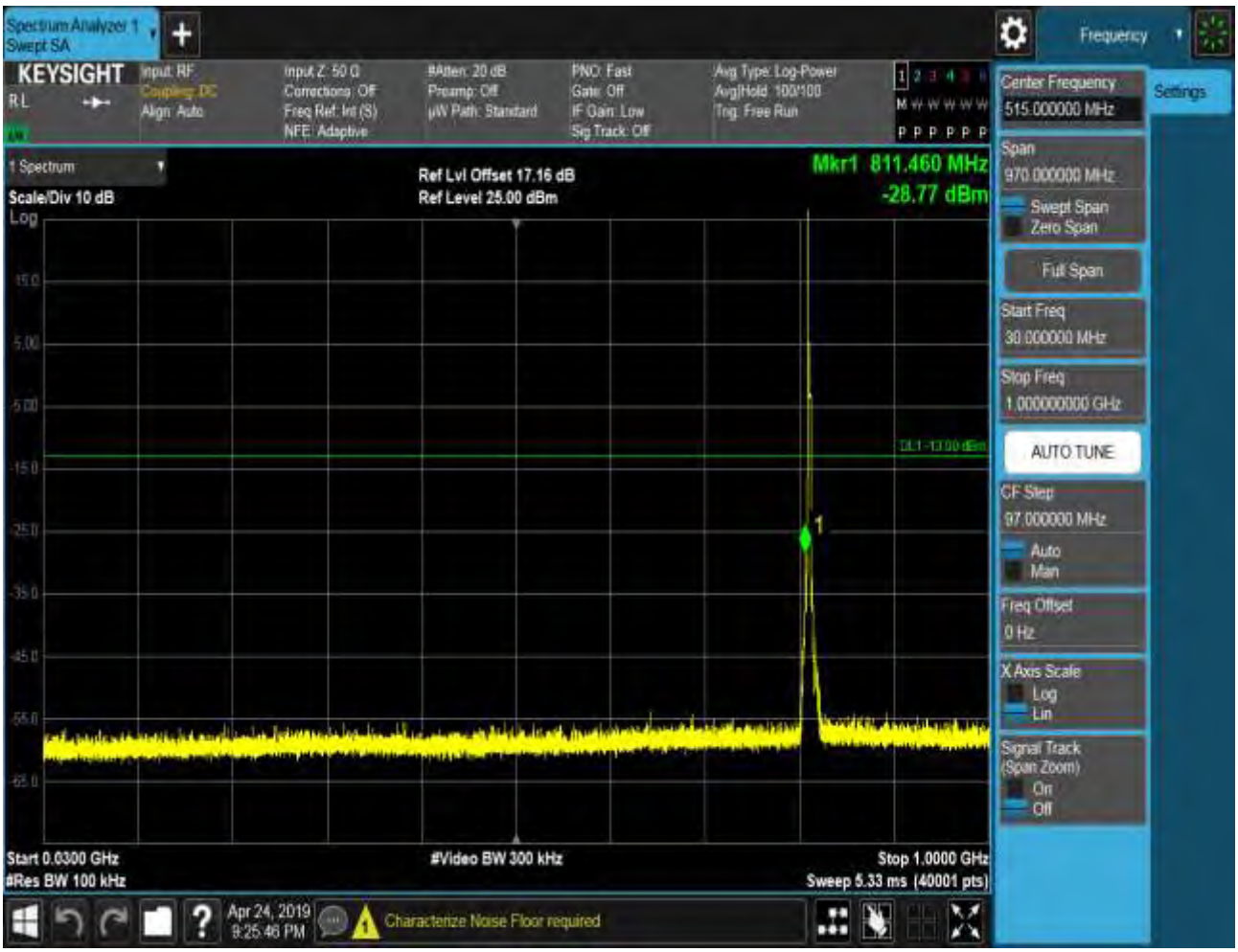

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 36/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.695 16 GHz
-38.14 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:23:01 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.2 Test Bandwidth = 3

6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 167.91 kHz
-63.42 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:25:36 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 811.460 MHz
-28.77 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:25:46 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.961 59 GHz
-37.89 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:25:56 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-63.26 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:28:18 PM
Characterize Noise Floor required
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 812.790 MHz
-41.25 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:28:27 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.885 80 GHz
-37.62 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:26:38 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-63.39 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:26:57 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 106.240 MHz
-55.70 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:27:06 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.962 76 GHz
-37.94 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:27:17 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.3 Test Bandwidth = 5

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-64.13 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:29:52 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Settings
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 811.480 MHz
-24.51 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:30:02 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 3.725 41 GHz
-37.61 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:30:13 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 155.97 kHz
-63.63 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:32:34 PM
Characterize Noise Floor required
Frequency
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold:>100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 825.450 MHz
-37.77 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:32:44 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 1.633 33 GHz
-37.97 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:32:54 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off
Settings

6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 16 dB
Preamp: Off
µW Path: Standard
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 0.00 dBm
Mkr1 150.00 kHz
-61.48 dBm
Start 150 kHz
#Res BW 10 kHz
#Video BW 30 kHz
Stop 30.00 MHz
Sweep 6.33 ms (5001 pts)
Apr 24, 2019
9:31:13 PM
Characterize Noise Floor required
Frequency
Settings
Center Frequency
15.075000 MHz
Span
29.8500000 MHz
Swept Span
Zero Span
Full Span
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
AUTO TUNE
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 827.970 MHz
-41.28 dBm
Start 0.0300 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 1.0000 GHz
Sweep 5.33 ms (40001 pts)
Apr 24, 2019
9:31:23 PM
Characterize Noise Floor required
Frequency
Center Frequency
515.000000 MHz
Settings
Span
970.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
AUTO TUNE
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 20 dB
Preamp: Off
µW Path: Standard
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 35/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 17.16 dB
Ref Level 25.00 dBm
Mkr1 1.638 61 GHz
-37.77 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 12.750 GHz
Sweep ~22.2 ms (40001 pts)
Apr 24, 2019
9:31:33 PM
Characterize Noise Floor required
Frequency
Center Frequency
6.875000000 GHz
Settings
Span
11.7500000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
AUTO TUNE
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
On
Off

6.2.1.1.4 Test Bandwidth = 10

6.2.1.1.4.1 Test Channel = MCH

6.2.1.1.4.1.1 Test RB = RB1#0