Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
CA_38C	LTE/TM1	15MHz+15MHz	LCH	1 # 0	0 # 0	23.69	24.11	33	PASS
				partial RBs # 0	0 # 0	23.75	24.17	33	PASS
				full RBs # 0	0 # 0	22.65	23.07	33	PASS
				full RBs # 0	full RBs # 0	20.04	20.46	33	PASS
			MCH	1 # 0	0 # 0	23.74	24.16	33	PASS
				partial RBs # 0	0 # 0	23.80	24.22	33	PASS
				full RBs # 0	0 # 0	22.59	23.01	33	PASS
				full RBs # 0	full RBs # 0	19.98	20.40	33	PASS
			HCH	1 # 0	0 # 0	23.61	24.03	33	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				partial RBs # 0	0 # 0	23.73	24.15	33	PASS
				full RBs # 0	0 # 0	22.59	23.01	33	PASS
				full RBs # 0	full RBs # 0	20.01	20.43	33	PASS
		20MHz +20MHz	LCH	1 # 0	0 # 0	23.57	23.99	33	PASS
				partial RBs # 0	0 # 0	23.79	24.21	33	PASS
				full RBs # 0	0 # 0	22.69	23.11	33	PASS
				full RBs # 0	full RBs # 0	20.10	20.52	33	PASS
			MCH	1 # 0	0 # 0	23.66	24.08	33	PASS
				partial RBs # 0	0 # 0	23.81	24.23	33	PASS
				full RBs # 0	0 # 0	22.55	22.97	33	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	20.11	20.53	33	PASS
			HCH	1 # 0	0 # 0	23.56	23.98	33	PASS
				partial RBs # 0	0 # 0	23.70	24.12	33	PASS
				full RBs # 0	0 # 0	22.66	23.08	33	PASS
				full RBs # 0	full RBs # 0	20.15	20.57	33	PASS
	LTE/TM2	15MHz +15MHz	LCH	1 # 0	0 # 0	23.24	23.66	33	PASS
				partial RBs # 0	0 # 0	22.76	23.18	33	PASS
				full RBs # 0	0 # 0	21.59	22.01	33	PASS
				full RBs # 0	full RBs # 0	19.13	19.55	33	PASS
			MCH	1 # 0	0 # 0	23.35	23.77	33	PASS
				partial	0 # 0	22.74	23.16	33	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RBs # 0					
				full RBs # 0	0 # 0	21.52	21.94	33	PASS
				full RBs # 0	full RBs # 0	19.01	19.43	33	PASS
			HCH	1 # 0	0 # 0	23.33	23.75	33	PASS
				partial RBs # 0	0 # 0	22.66	23.08	33	PASS
				full RBs # 0	0 # 0	21.56	21.98	33	PASS
				full RBs # 0	full RBs # 0	19.05	19.47	33	PASS
		20MHz +20MHz	LCH	1 # 0	0 # 0	23.34	23.76	33	PASS
				partial RBs # 0	0 # 0	22.84	23.26	33	PASS
				full RBs # 0	0 # 0	21.63	22.05	33	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	19.17	19.59	33	PASS
			MCH	1 # 0	0 # 0	23.20	23.62	33	PASS
				partial RBs # 0	0 # 0	22.87	23.29	33	PASS
				full RBs # 0	0 # 0	21.61	22.03	33	PASS
				full RBs # 0	full RBs # 0	19.15	19.57	33	PASS
			HCH	1 # 0	0 # 0	23.25	23.67	33	PASS
				partial RBs # 0	0 # 0	22.77	23.19	33	PASS
				full RBs # 0	0 # 0	21.62	22.04	33	PASS
				full RBs # 0	full RBs # 0	19.17	19.59	33	PASS

Note1:

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

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

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

b, SGP = Signal Generator Level

Note2:

SET Span = 1.5 * OBW

SET RBW = 1% of the OBW,not to exceed 1MHz

SET VBW >= 3 * RBW

SET Sweep time = auto - couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
CA_38C	LTE/TM 1	15MHz+15 MHz	LCH	1 # 0	0 # 0	4.08	13	PASS
				partial RBs # 0	0 # 0	4.35	13	PASS
				full RBs # 0	0 # 0	5.55	13	PASS
				full RBs # 0	full RBs # 0	7.02	13	PASS
			MCH	1 # 0	0 # 0	4.03	13	PASS
				partial RBs # 0	0 # 0	4.29	13	PASS
				full RBs # 0	0 # 0	5.98	13	PASS
				full RBs # 0	full RBs # 0	6.57	13	PASS
			HCH	1 # 0	0 # 0	3.70	13	PASS
				partial RBs # 0	0 # 0	4.35	13	PASS
				full RBs	0 # 0	6.02	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				# 0				
				full RBs # 0	full RBs # 0	6.48	13	PASS
		20MHz+20MHz	LCH	1 # 0	0 # 0	4.58	13	PASS
				partial RBs # 0	0 # 0	4.31	13	PASS
				full RBs # 0	0 # 0	5.47	13	PASS
				full RBs # 0	full RBs # 0	6.60	13	PASS
			MCH	1 # 0	0 # 0	3.99	13	PASS
				partial RBs # 0	0 # 0	4.29	13	PASS
				full RBs # 0	0 # 0	5.76	13	PASS
				full RBs # 0	full RBs # 0	6.65	13	PASS
			HCH	1 # 0	0 # 0	4.48	13	PASS
				partial RBs # 0	0 # 0	4.30	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	0 # 0	5.76	13	PASS
				full RBs # 0	full RBs # 0	6.62	13	PASS
	LTE/TM 2	15MHz+15 MHz	LCH	1 # 0	0 # 0	4.89	13	PASS
				partial RBs # 0	0 # 0	5.21	13	PASS
				full RBs # 0	0 # 0	6.03	13	PASS
				full RBs # 0	full RBs # 0	7.72	13	PASS
			MCH	1 # 0	0 # 0	4.89	13	PASS
				partial RBs # 0	0 # 0	5.17	13	PASS
				full RBs # 0	0 # 0	6.47	13	PASS
				full RBs # 0	full RBs # 0	7.25	13	PASS
			HCH	1 # 0	0 # 0	4.62	13	PASS
				partial RBs # 0	0 # 0	4.99	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	0 # 0	6.48	13	PASS
				full RBs # 0	full RBs # 0	7.05	13	PASS
		20MHz+20MHz	LCH	1 # 0	0 # 0	4.95	13	PASS
				partial RBs # 0	0 # 0	4.58	13	PASS
				full RBs # 0	0 # 0	5.80	13	PASS
				full RBs # 0	full RBs # 0	7.24	13	PASS
			MCH	1 # 0	0 # 0	4.78	13	PASS
				partial RBs # 0	0 # 0	5.28	13	PASS
				full RBs # 0	0 # 0	6.65	13	PASS
				full RBs # 0	full RBs # 0	7.39	13	PASS
			HCH	1 # 0	0 # 0	4.60	13	PASS
				partial RBs # 0	0 # 0	5.07	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	0 # 0	6.60	13	PASS
				full RBs # 0	full RBs # 0	7.23	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

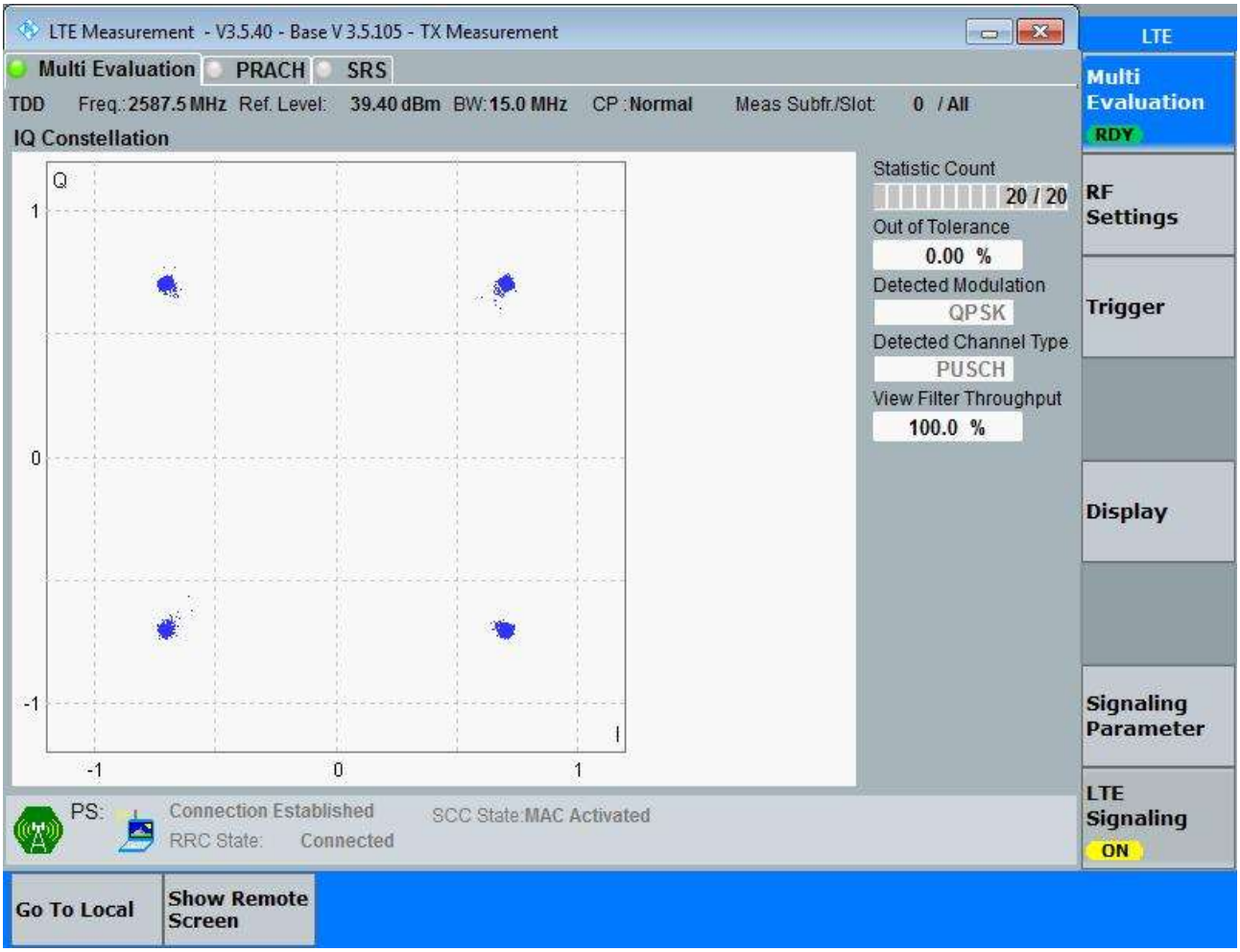
3.1.1 Test Band = CA_38C

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 15MHz+15MHz

3.1.1.1.1.1 Test Channel = MCH

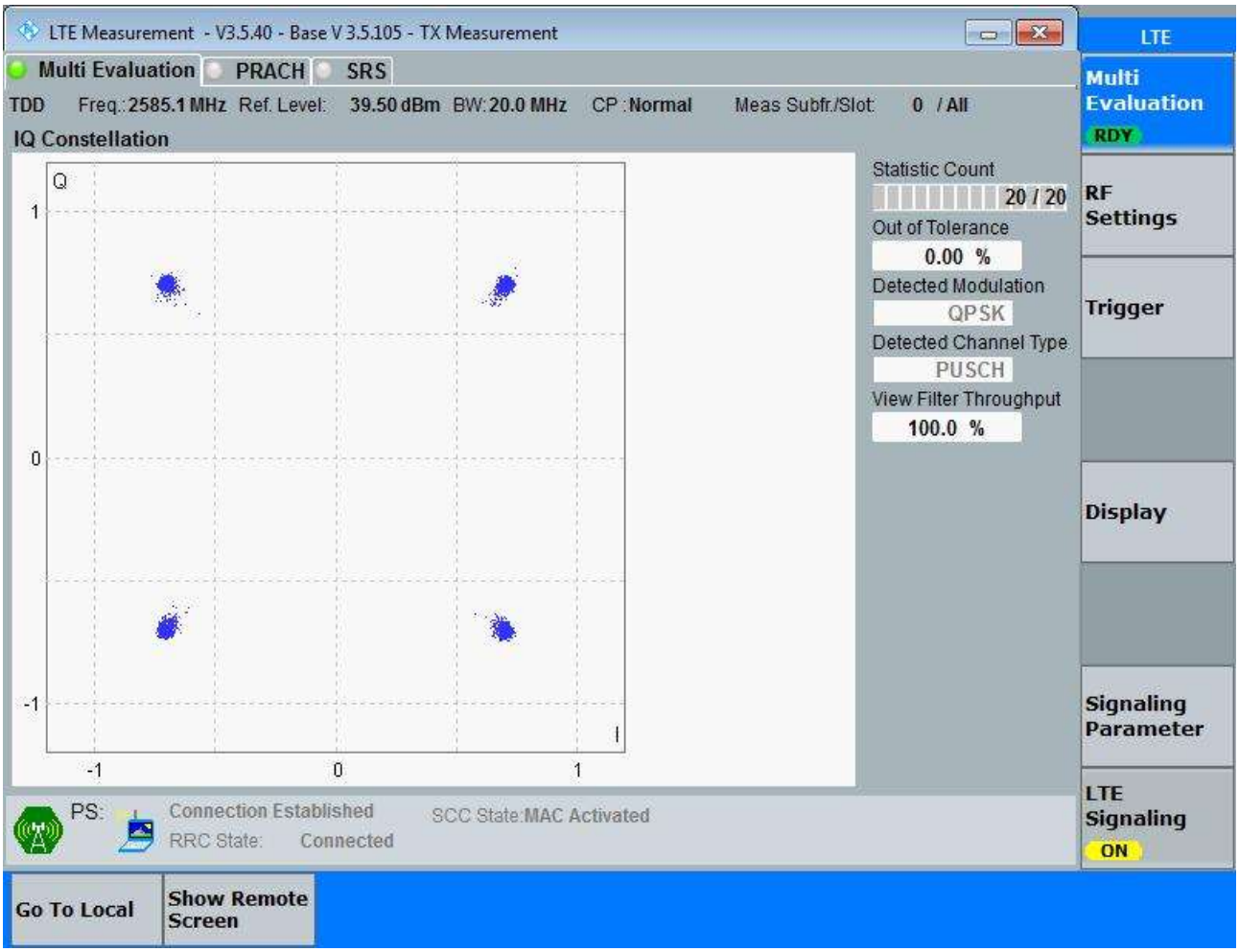
3.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



3.1.1.1.2 Test Bandwidth = 20MHz+20MHz

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

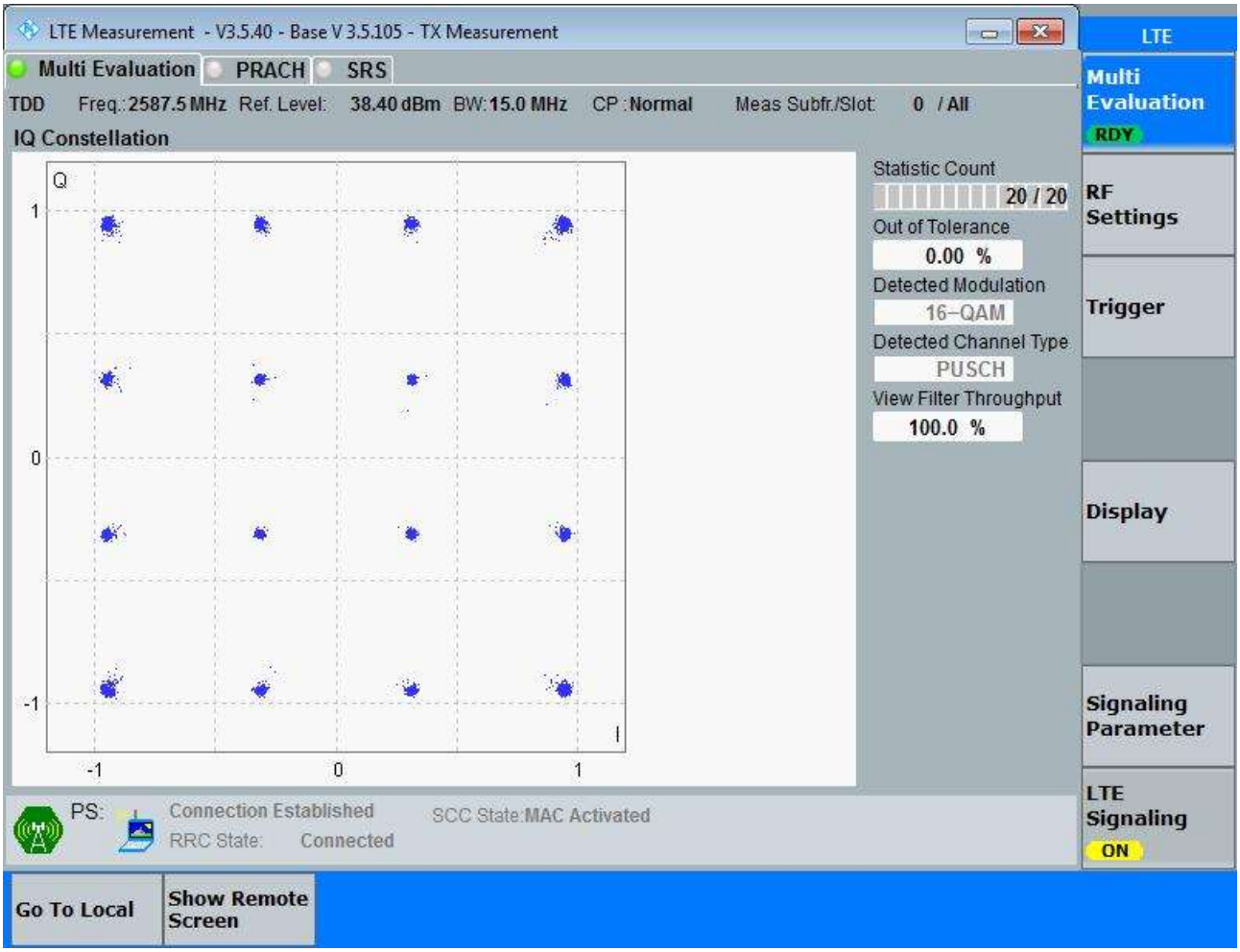


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 15MHz+15MHz

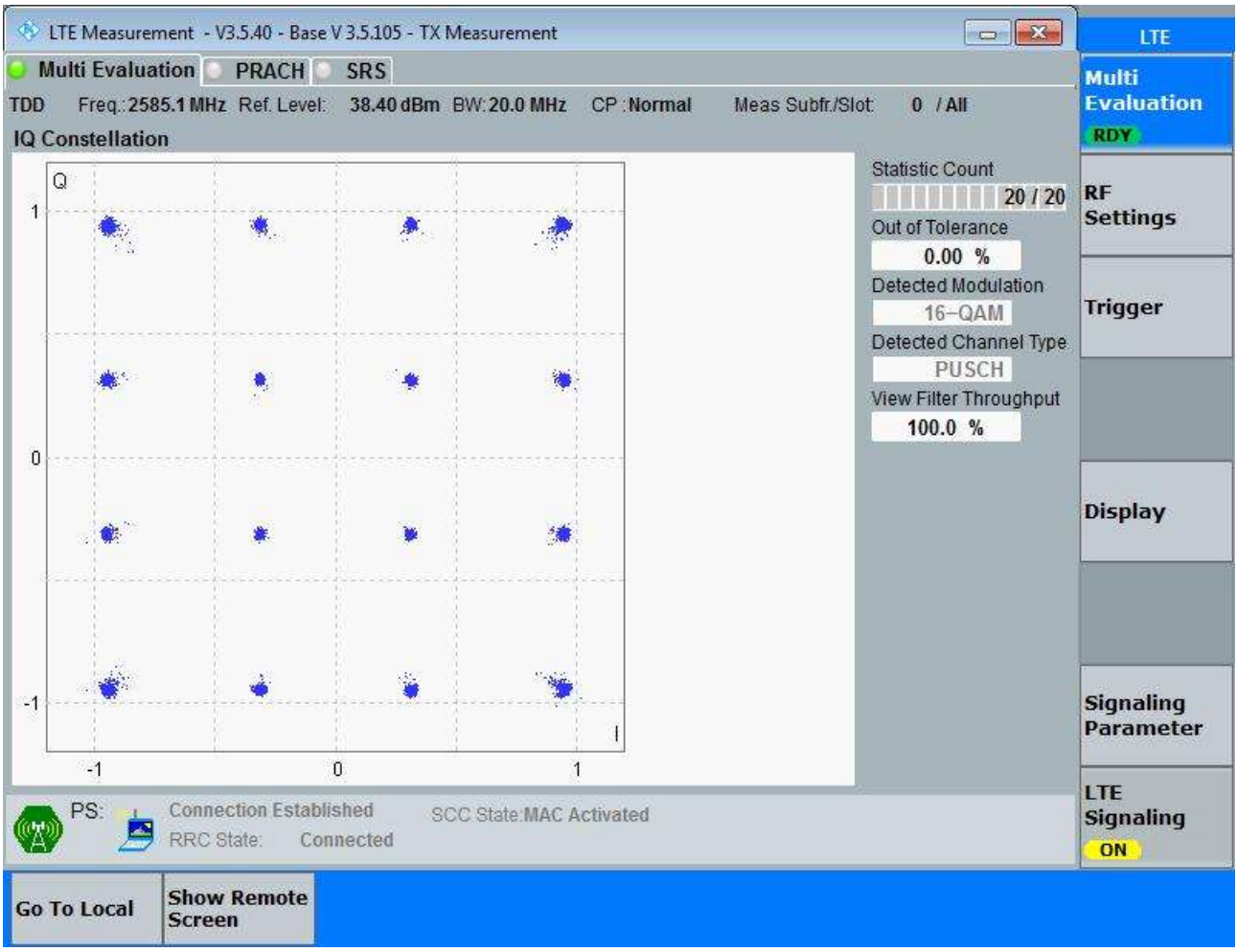
3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



3.1.1.2.2 Test Bandwidth = 20MHz+20MHz

3.1.1.2.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



4Appendix_D: Bandwidth

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CA_38C	LTE/ TM1	15MHz +15MHz	LCH	full RBs # 0	full RBs # 0	28.97	31.49	PASS
			MCH	full RBs # 0	full RBs # 0	28.98	31.34	PASS
			HCH	full RBs # 0	full RBs # 0	28.94	31.17	PASS
		20MHz +20MHz	LCH	full RBs # 0	full RBs # 0	38.47	41.68	PASS
			MCH	full RBs # 0	full RBs # 0	38.54	41.37	PASS
			HCH	full RBs # 0	full RBs # 0	38.53	41.43	PASS
	LTE/ TM2	15MHz +15MHz	LCH	full RBs # 0	full RBs # 0	29.04	31.15	PASS
			MCH	full RBs # 0	full RBs # 0	28.98	31.19	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
			HCH	full RBs # 0	full RBs # 0	28.94	31.99	PASS
		20MHz +20MHz	LCH	full RBs # 0	full RBs # 0	38.41	41.86	PASS
			MCH	full RBs # 0	full RBs # 0	38.45	41.29	PASS
			HCH	full RBs # 0	full RBs # 0	38.47	41.30	PASS

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = CA_38C

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 15MHz+15MHz

4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2 Test Bandwidth = 20MHz+20MHz

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1 Test Mode = LTE/TM2

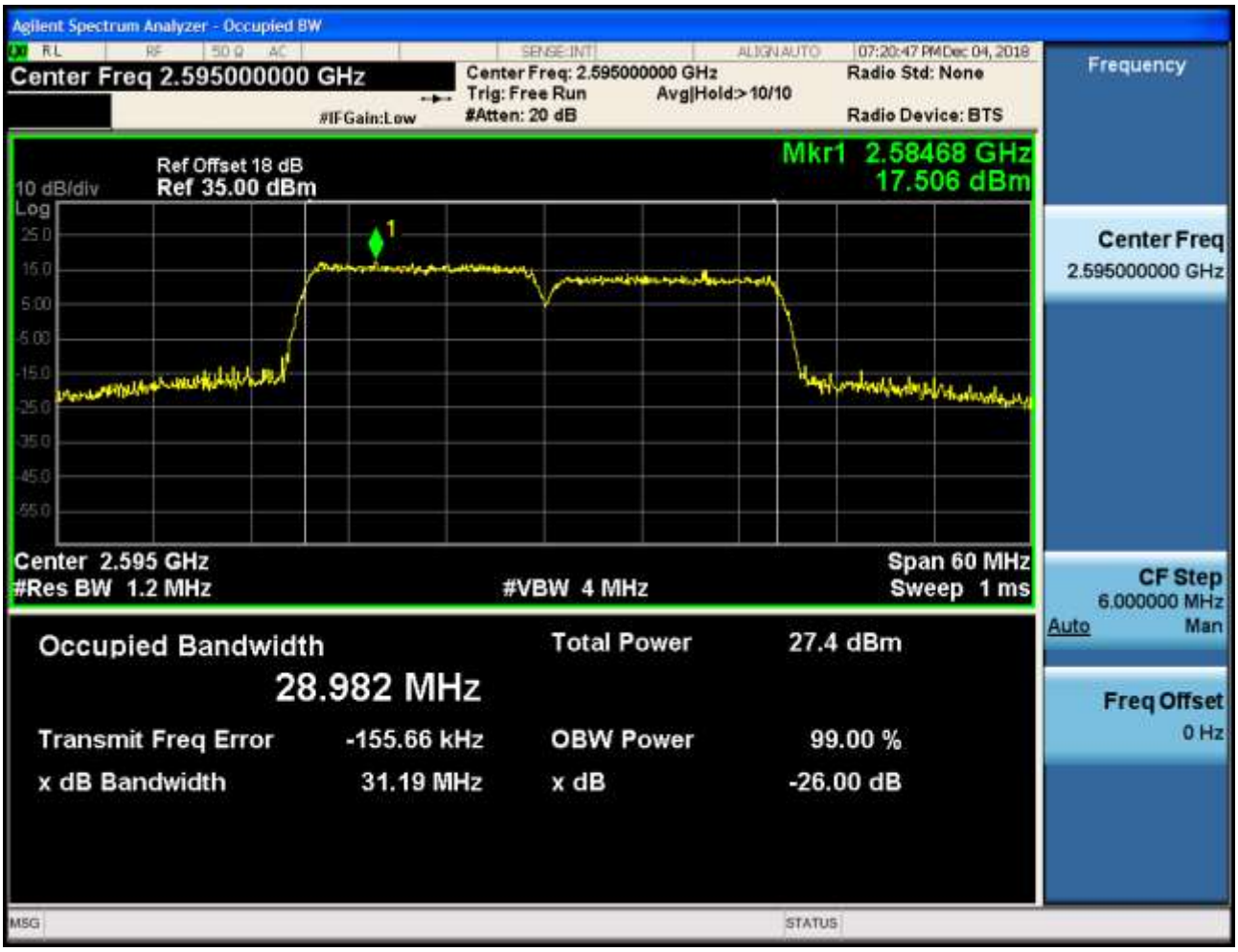
4.1.1.1.1 Test Bandwidth = 15MHz+15MHz

4.1.1.1.1.1 Test Channel = LCH

####### 4.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2 Test Bandwidth = 20MHz+20MHz

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = CA_38C

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 15+15

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0

5.1.1.1.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

5.1.1.1.1.1.3 PCC Test RB = full RBs & SCC Test RB = 0

5.1.1.1.1.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs

5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max

5.1.1.1.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max

5.1.1.1.1.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

5.1.1.1.1.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs

5.1.1.1.2 Test Bandwidth = 20+20

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0

5.1.1.1.2.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

5.1.1.1.2.1.3 PCC Test RB = full RBs & SCC Test RB = 0

5.1.1.1.2.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs

5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max

5.1.1.1.2.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max

5.1.1.1.2.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

5.1.1.1.2.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs

5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 15+15

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0

5.1.1.2.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

5.1.1.2.1.1.3 PCC Test RB = full RBs & SCC Test RB = 0

5.1.1.2.1.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs