



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_41C (2545-2655)	LTE/TM1	15+15	LCH	1 # 0	0 # 0	22.64	23.64	33	PASS
				partial RBs # 0	0 # 0	22.57	23.57	33	PASS
				full RBs # 0	0 # 0	21.23	22.23	33	PASS
				full RBs # 0	full RBs # 0	18.94	19.94	33	PASS
			MCH	1 # 0	0 # 0	22.76	23.76	33	PASS
				partial RBs # 0	0 # 0	22.75	23.75	33	PASS
				full RBs # 0	0 # 0	21.26	22.26	33	PASS
				full RBs # 0	full RBs # 0	18.30	19.30	33	PASS
			HCH	1 # 0	0 # 0	22.81	23.81	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	22.73	23.73	33	PASS
				full RBs # 0	0 # 0	21.47	22.47	33	PASS
				full RBs # 0	full RBs # 0	19.12	20.12	33	PASS
		20+20	LCH	1 # 0	0 # 0	22.23	23.23	33	PASS
				partial RBs # 0	0 # 0	22.31	23.31	33	PASS
				full RBs # 0	0 # 0	21.46	22.46	33	PASS
				full RBs # 0	full RBs # 0	19.13	20.13	33	PASS
				1 # 0	0 # 0	22.38	23.38	33	PASS
			MCH	partial RBs # 0	0 # 0	22.26	23.26	33	PASS
				full RBs # 0	0 # 0	21.30	22.30	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	18.51	19.51	33	PASS
			HCH	1 # 0	0 # 0	22.41	23.41	33	PASS
				partial RBs # 0	0 # 0	22.56	23.56	33	PASS
				full RBs # 0	0 # 0	21.67	22.67	33	PASS
				full RBs # 0	full RBs # 0	19.50	20.50	33	PASS
	LTE/T M2	15+15	LCH	1 # 0	0 # 0	21.85	22.85	33	PASS
				partial RBs # 0	0 # 0	21.63	22.63	33	PASS
				full RBs # 0	0 # 0	20.23	21.23	33	PASS
				full RBs # 0	full RBs # 0	17.89	18.89	33	PASS
			MCH	1 # 0	0 # 0	21.86	22.86	33	PASS
				partial	0 # 0	21.65	22.65	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	20.14	21.14	33	PASS
				full RBs # 0	full RBs # 0	17.28	18.28	33	PASS
			HCH	1 # 0	0 # 0	21.41	22.41	33	PASS
				partial RBs # 0	0 # 0	21.79	22.79	33	PASS
				full RBs # 0	0 # 0	20.45	21.45	33	PASS
				full RBs # 0	full RBs # 0	18.03	19.03	33	PASS
		20+20	LCH	1 # 0	0 # 0	21.71	22.71	33	PASS
				partial RBs # 0	0 # 0	21.39	22.39	33	PASS
				full RBs # 0	0 # 0	20.34	21.34	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	18.16	19.16	33	PASS
			MCH	1 # 0	0 # 0	21.90	22.90	33	PASS
				partial RBs # 0	0 # 0	21.49	22.49	33	PASS
				full RBs # 0	0 # 0	20.27	21.27	33	PASS
				full RBs # 0	full RBs # 0	17.44	18.44	33	PASS
			HCH	1 # 0	0 # 0	21.93	22.93	33	PASS
				partial RBs # 0	0 # 0	21.65	22.65	33	PASS
				full RBs # 0	0 # 0	20.63	21.63	33	PASS
				full RBs # 0	full RBs # 0	18.49	19.49	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,

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

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

b, SGP = Signal Generator Level

Note2:

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

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

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

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

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_41C (2545-2655)	LTE/TM 1	15+15	LCH	1 # 0	0 # 0	3.87	13	PASS
				partial RBs # 0	0 # 0	4.48	13	PASS
				full RBs # 0	0 # 0	5.90	13	PASS
				full RBs # 0	full RBs # 0	6.45	13	PASS
			MCH	1 # 0	0 # 0	3.99	13	PASS
				partial RBs # 0	0 # 0	4.69	13	PASS
				full RBs # 0	0 # 0	6.05	13	PASS
				full RBs # 0	full RBs # 0	6.90	13	PASS
			HCH	1 # 0	0 # 0	3.83	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				partial RBs # 0	0 # 0	4.87	13	PASS
				full RBs # 0	0 # 0	6.01	13	PASS
				full RBs # 0	full RBs # 0	6.61	13	PASS
		20+20	LCH	1 # 0	0 # 0	4.44	13	PASS
				partial RBs # 0	0 # 0	4.43	13	PASS
				full RBs # 0	0 # 0	5.61	13	PASS
				full RBs # 0	full RBs # 0	6.69	13	PASS
			MCH	1 # 0	0 # 0	3.75	13	PASS
				partial RBs # 0	0 # 0	4.52	13	PASS
				full RBs # 0	0 # 0	5.73	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	full RBs # 0	6.75	13	PASS
				1 # 0	0 # 0	4.50	13	PASS
				partial RBs # 0	0 # 0	4.59	13	PASS
				full RBs # 0	0 # 0	5.91	13	PASS
				full RBs # 0	full RBs # 0	6.47	13	PASS
	LTE/TM 2	15+15	HCH	1 # 0	0 # 0	4.70	13	PASS
				partial RBs # 0	0 # 0	5.11	13	PASS
				full RBs # 0	0 # 0	6.65	13	PASS
				full RBs # 0	full RBs # 0	7.03	13	PASS
			MCH	1 # 0	0 # 0	4.77	13	PASS
				partial	0 # 0	5.66	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				RBs # 0				
				full RBs # 0	0 # 0	6.02	13	PASS
				full RBs # 0	full RBs # 0	7.48	13	PASS
			HCH	1 # 0	0 # 0	5.31	13	PASS
				partial RBs # 0	0 # 0	5.54	13	PASS
				full RBs # 0	0 # 0	6.73	13	PASS
				full RBs # 0	full RBs # 0	7.32	13	PASS
		20+20	LCH	1 # 0	0 # 0	4.47	13	PASS
				partial RBs # 0	0 # 0	5.33	13	PASS
				full RBs # 0	0 # 0	6.51	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	full RBs # 0	7.33	13	PASS
				1 # 0	0 # 0	4.69	13	PASS
				partial RBs # 0	0 # 0	5.32	13	PASS
				full RBs # 0	0 # 0	6.59	13	PASS
				full RBs # 0	full RBs # 0	7.67	13	PASS
			HCH	1 # 0	0 # 0	4.62	33	PASS
				partial RBs # 0	0 # 0	5.67	33	PASS
				full RBs # 0	0 # 0	6.75	33	PASS
				full RBs # 0	full RBs # 0	7.29	33	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

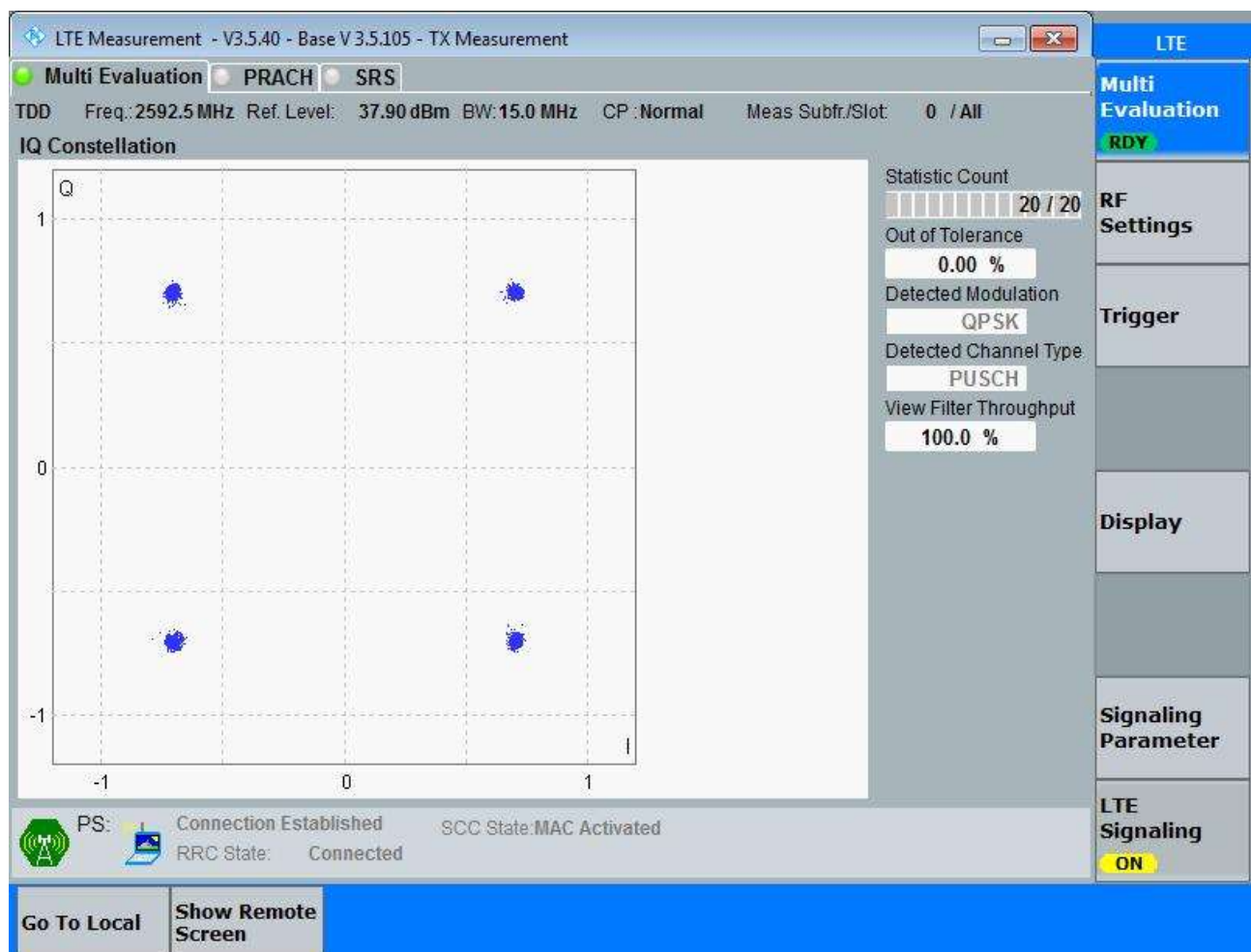
3.1.1 Test Band = CA_41C (2545-2655)

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 15+15

3.1.1.1.1.1 Test Channel = MCH

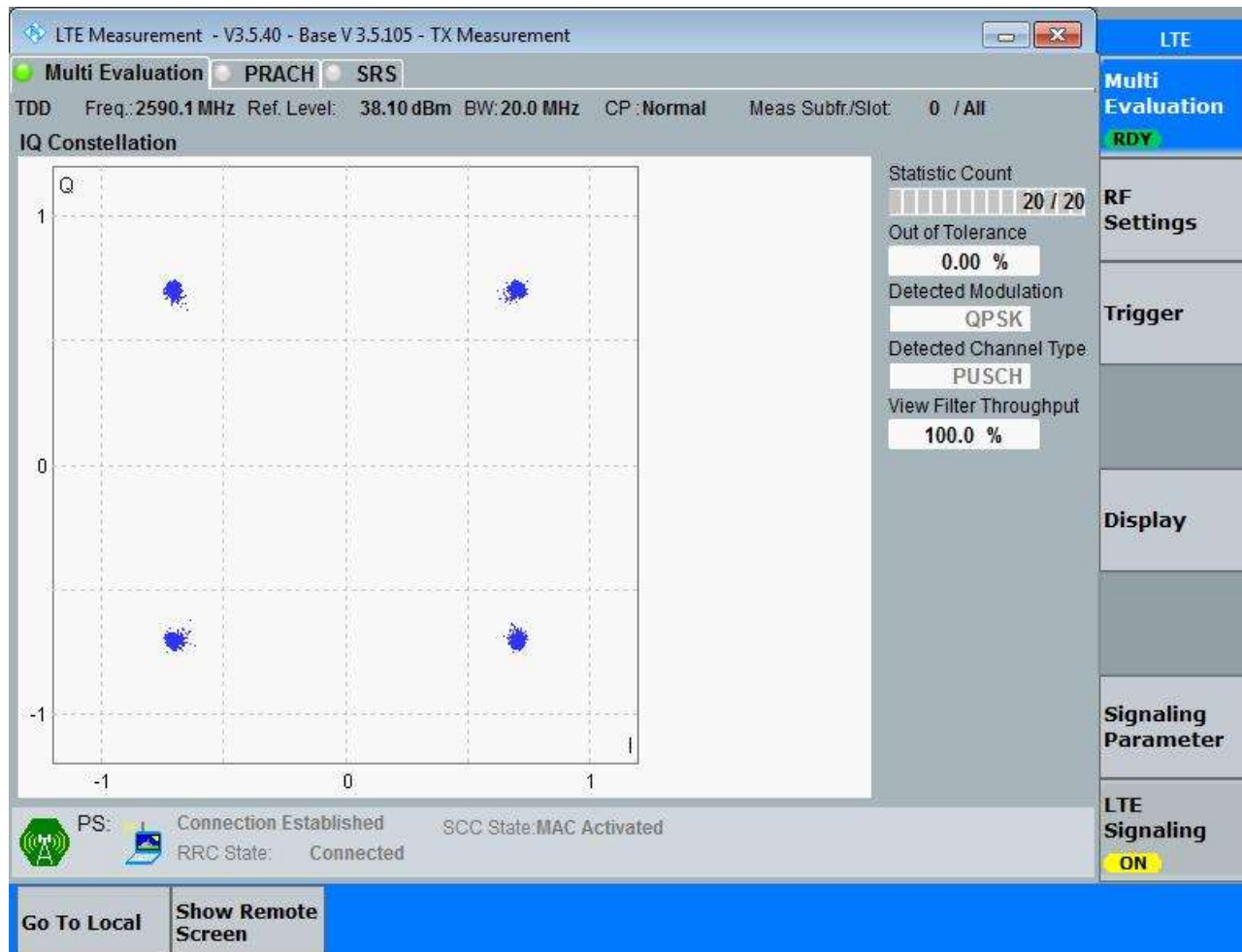
3.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



3.1.1.1.2 Test Bandwidth = 20+20

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

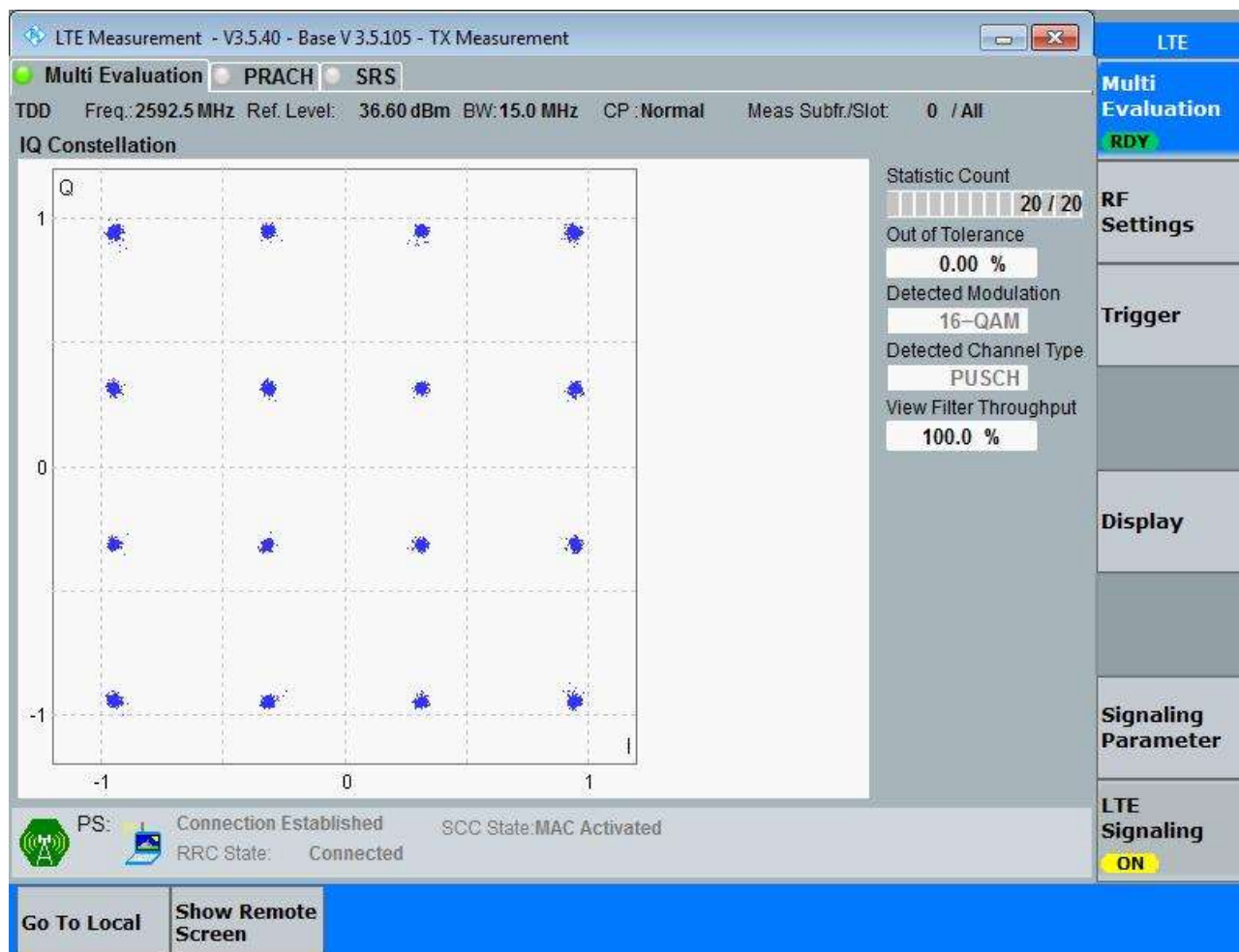


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 15+15

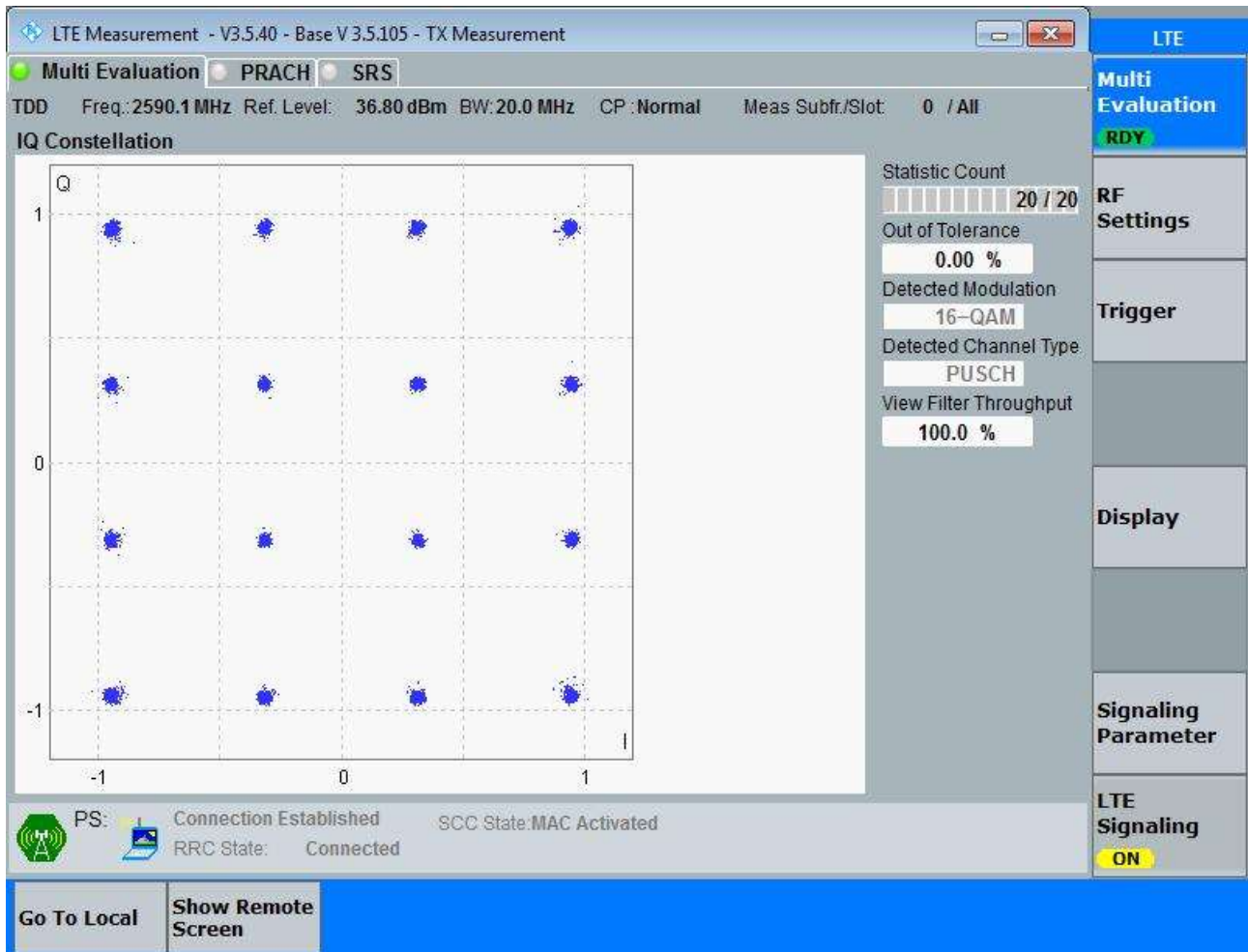
3.1.1.2.1.1 Test Channel = MCH

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



3.1.1.2.2 Test Bandwidth = 20+20

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_41C (2545-2655)	LTE/TM1	15+15	LCH	full RBs # 0	full RBs # 0	28.91	31.30	PASS
			MCH	full RBs # 0	full RBs # 0	29.01	31.25	PASS
			HCH	full RBs # 0	full RBs # 0	29.04	31.30	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	38.47	41.64	PASS
			MCH	full RBs # 0	full RBs # 0	38.45	41.42	PASS
			HCH	full RBs # 0	full RBs # 0	38.40	41.27	PASS
	LTE/TM2	15+15	LCH	full RBs # 0	full RBs # 0	28.99	31.21	PASS
			MCH	full RBs # 0	full RBs # 0	29.04	31.15	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		20+20	HCH	full RBs # 0	full RBs # 0	28.96	31.15	PASS
			LCH	full RBs # 0	full RBs # 0	38.35	41.33	PASS
			MCH	full RBs # 0	full RBs # 0	38.41	41.36	PASS
			HCH	full RBs # 0	full RBs # 0	38.45	41.29	PASS

Part II - Test Plots

4.1 For LTE

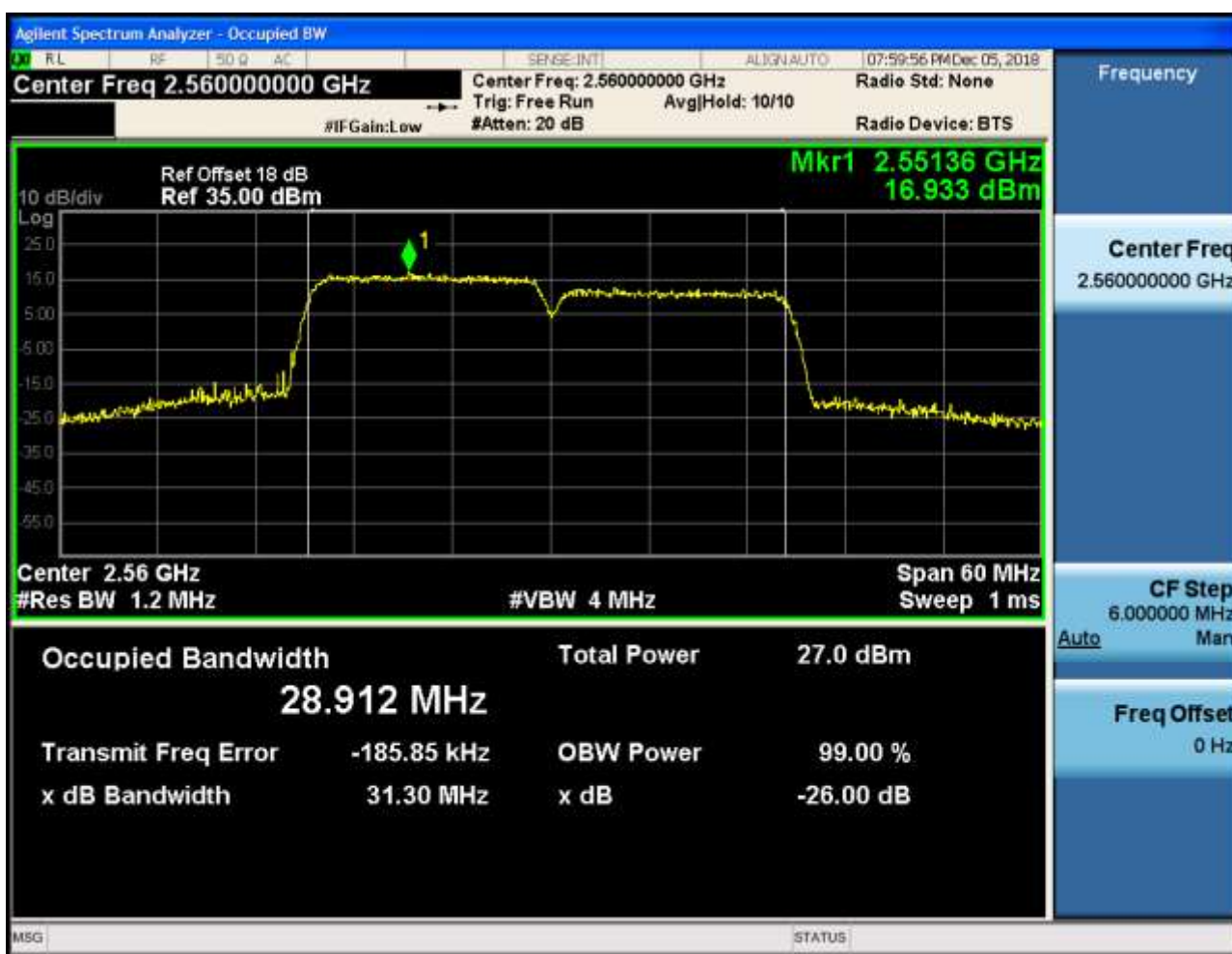
4.1.1 Test Band = CA_41C (2545-2655)

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 15+15

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 = 20+20

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 = 15+15

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 = 20+20

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_41C (2545-2655)

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







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







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







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



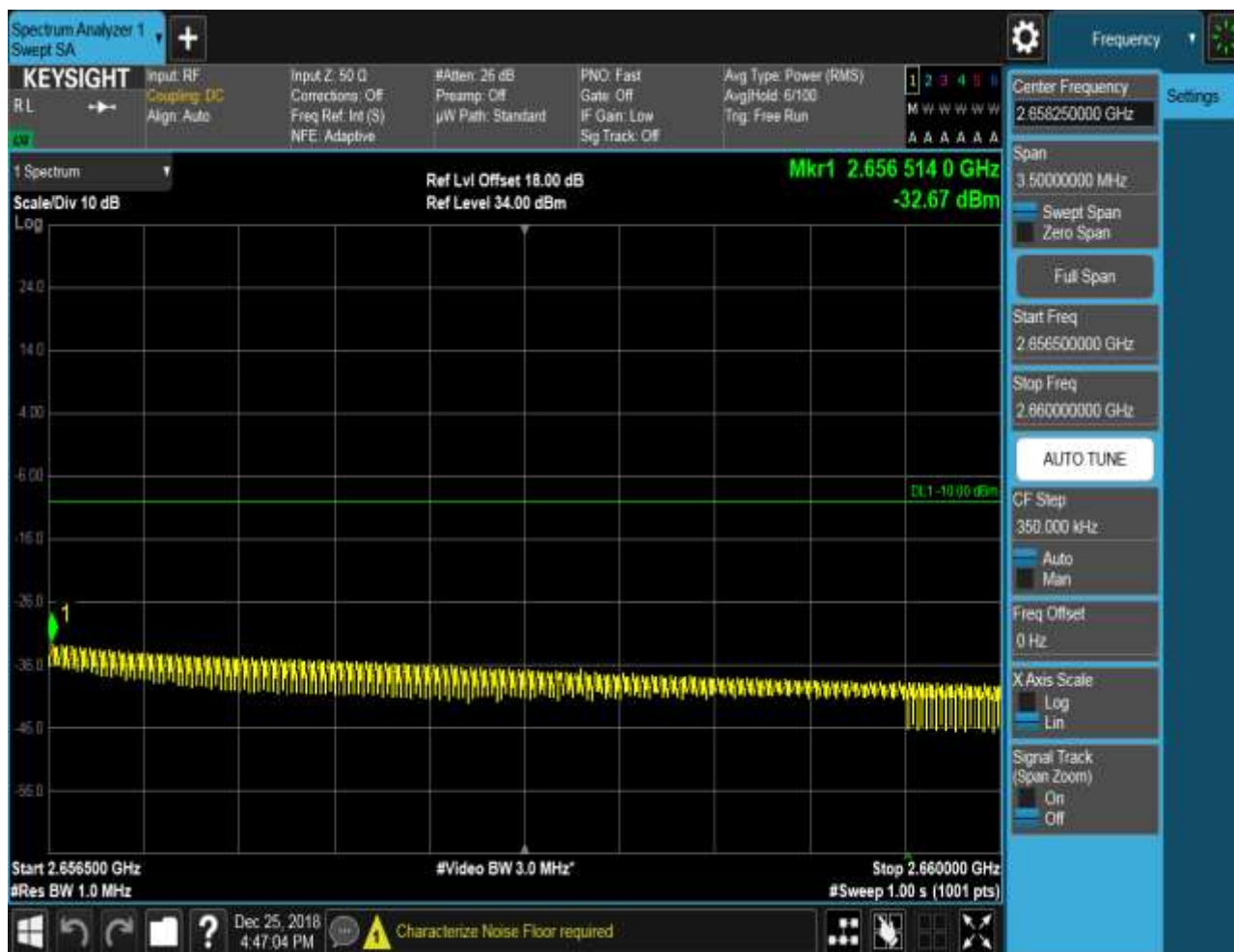


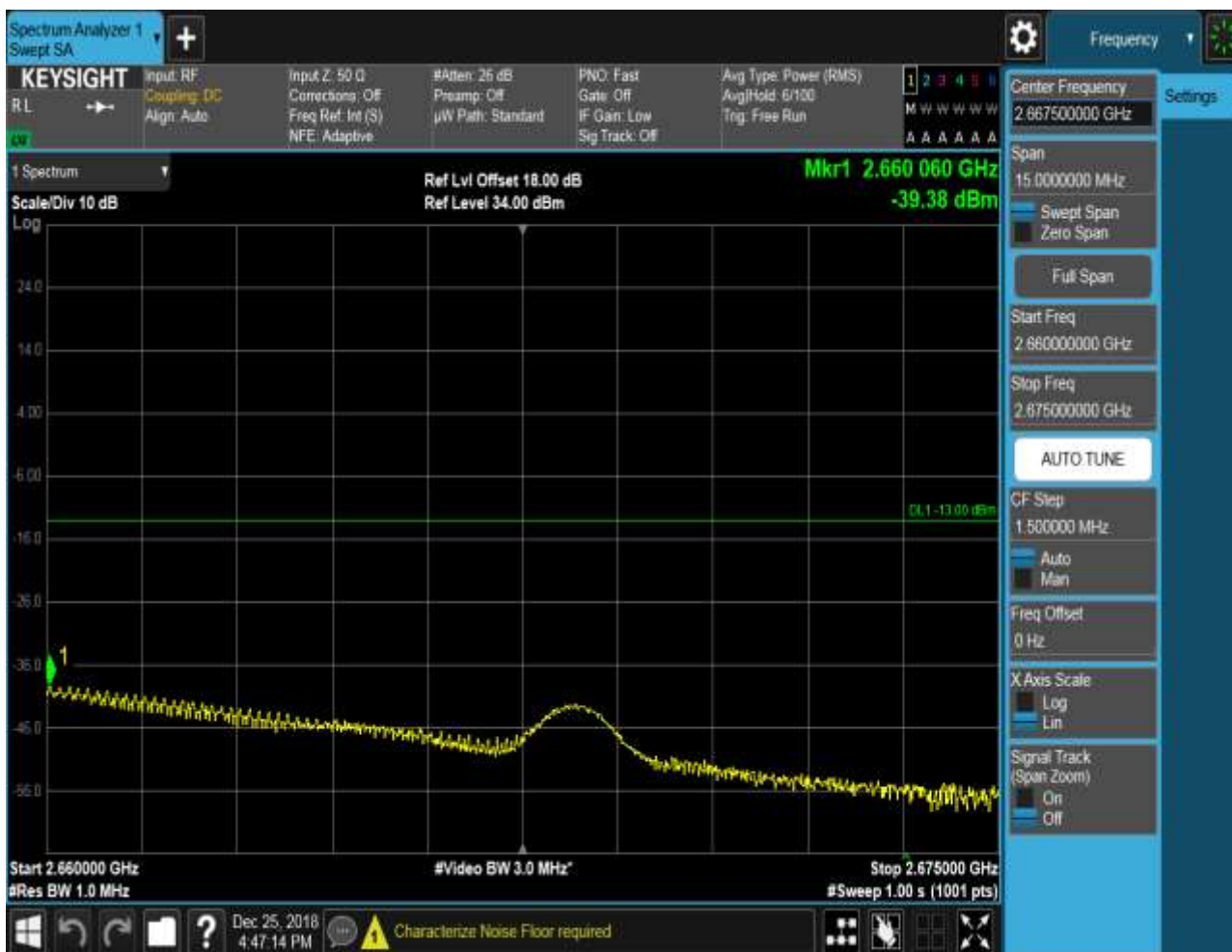


5.1.1.1.1.2 Test Channel = HCH

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





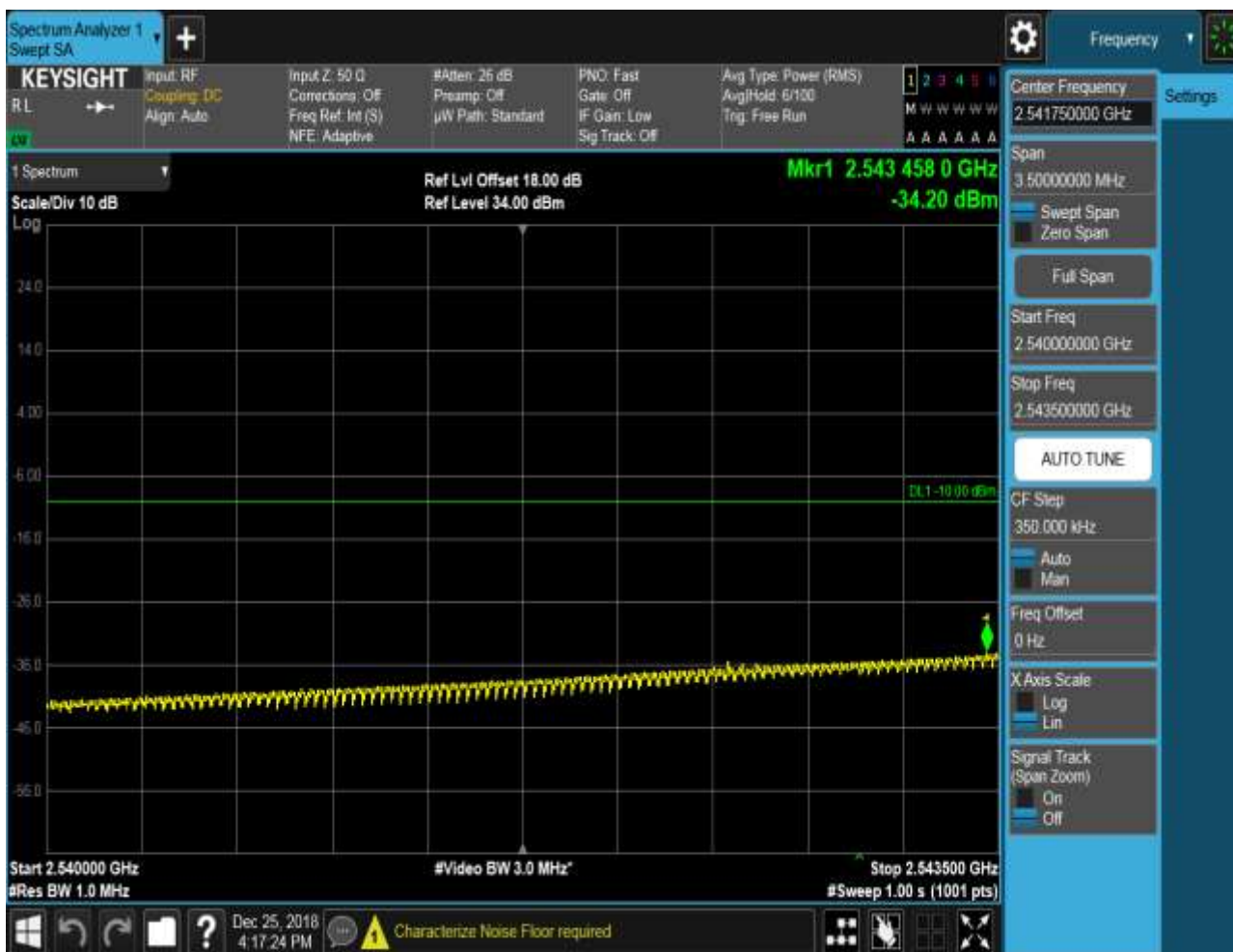


5.1.1.1.2 Test Bandwidth = 20+20

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



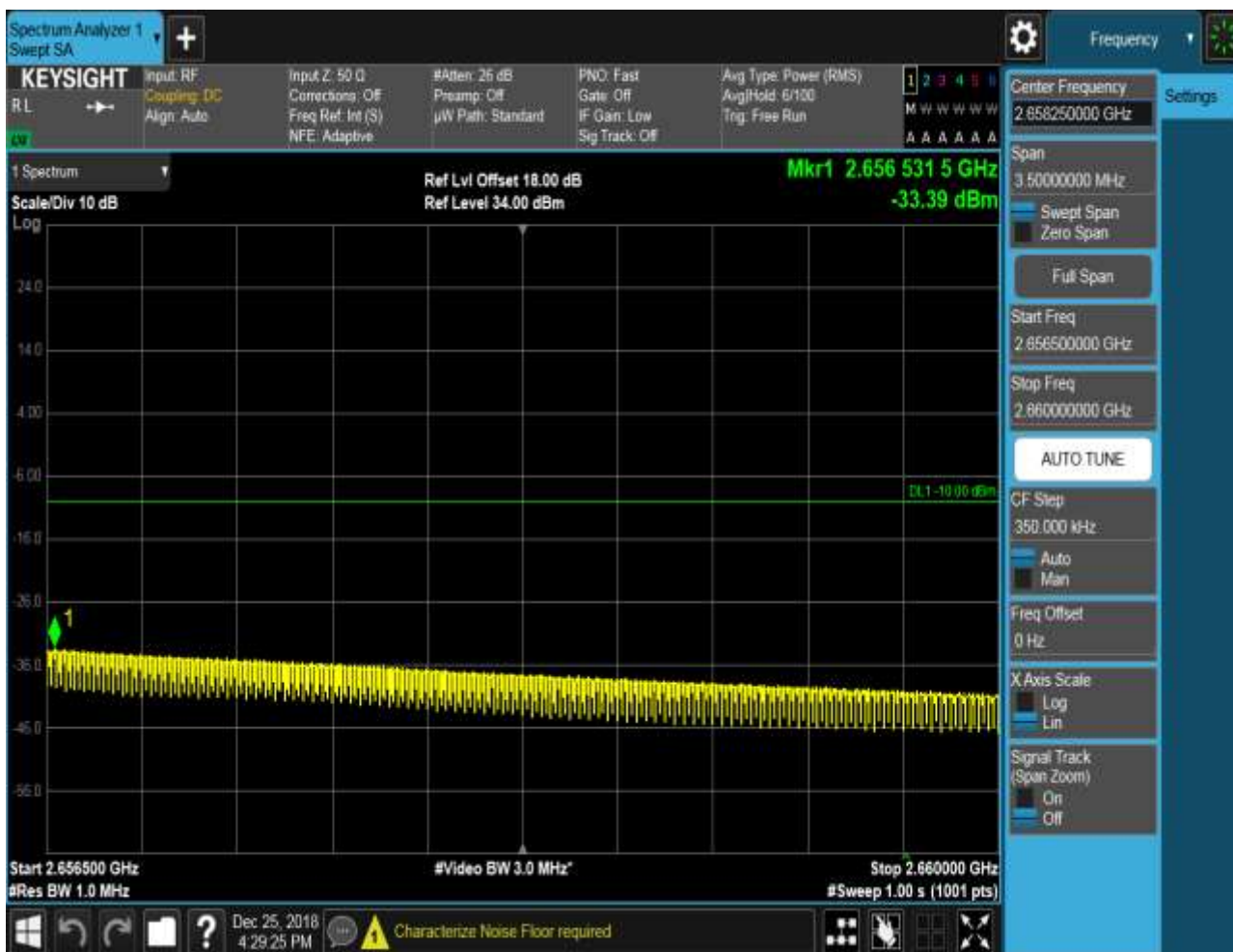


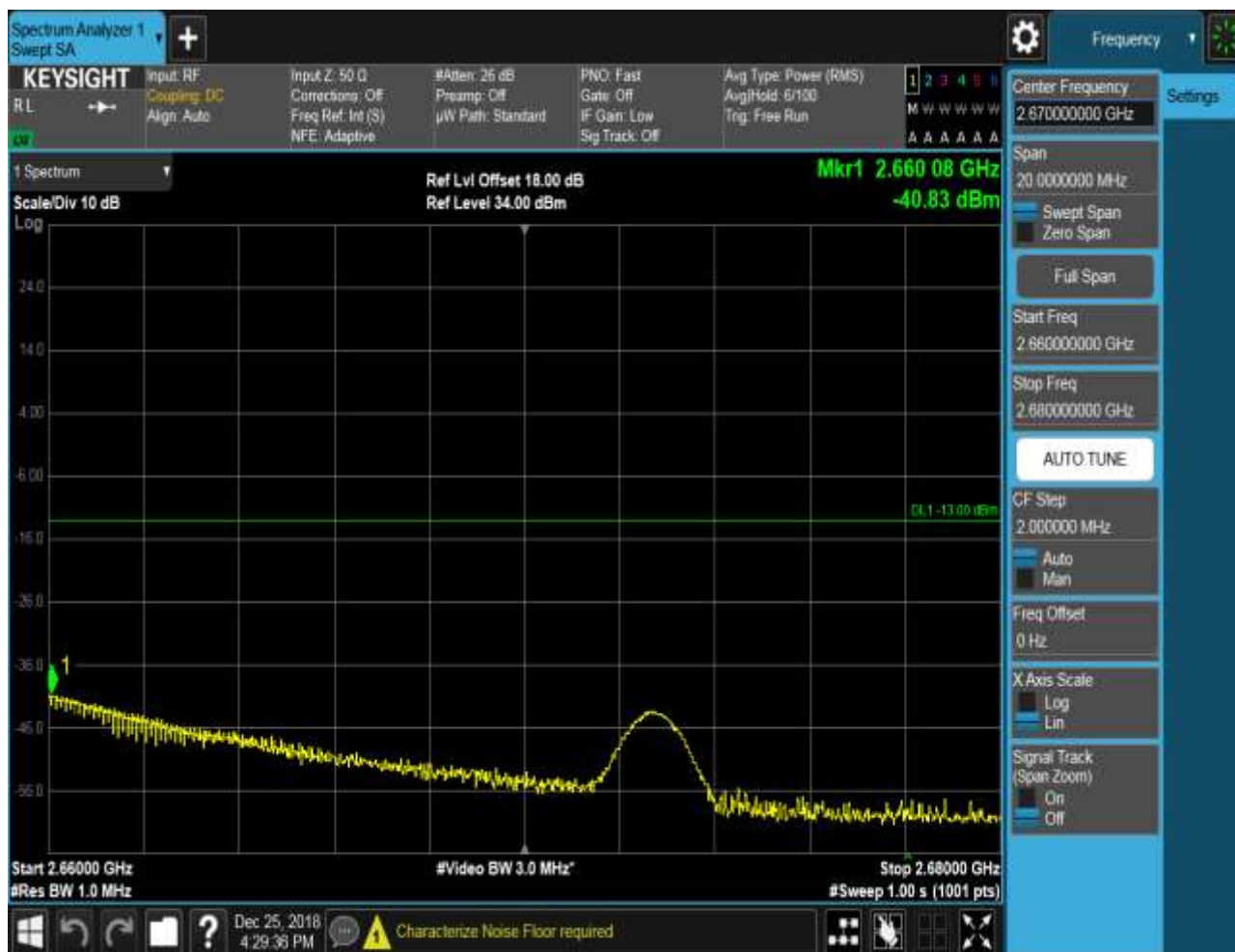


5.1.1.1.2.2 Test Channel = HCH

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





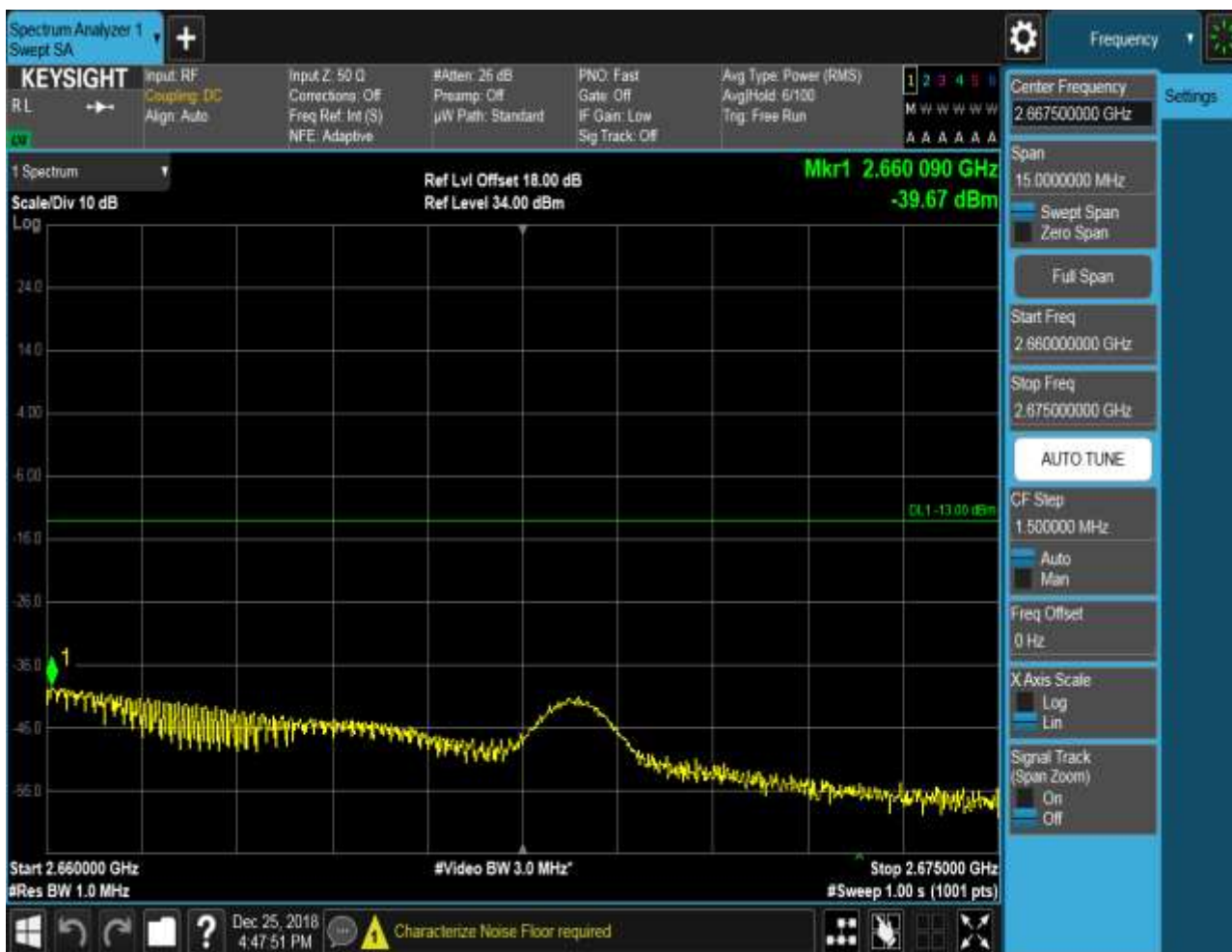


5.1.1.2.1.2 Test Channel = HCH

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



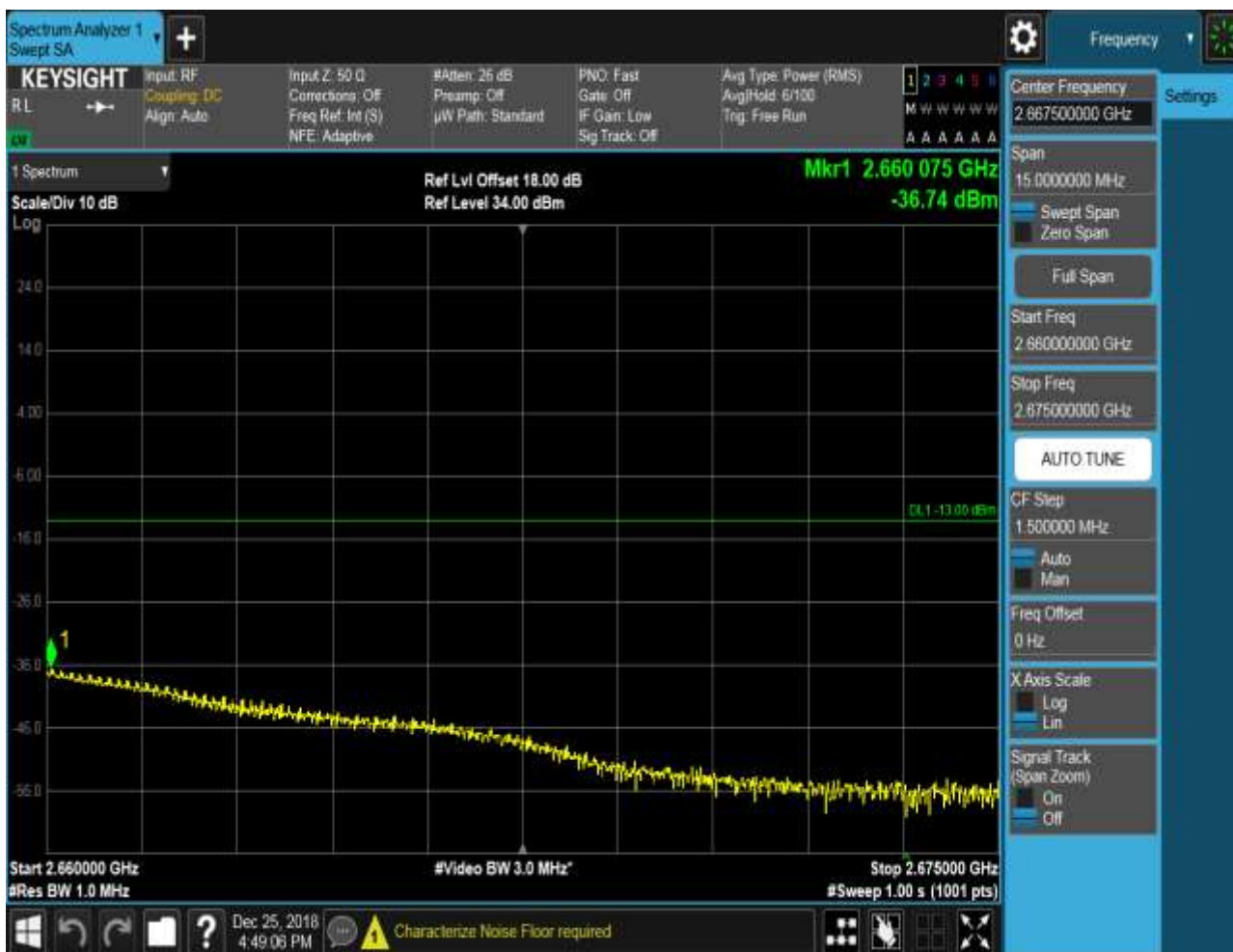




5.1.1.2.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max







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







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

