



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_7C	LTE/T M1	15+15	LCH	1 # 0	0 # 0	22.13	23.13	33	PASS
				partial RBs # 0	0 # 0	21.90	22.90	33	PASS
				full RBs # 0	0 # 0	21.68	22.68	33	PASS
				full RBs # 0	full RBs # 0	17.97	18.97	33	PASS
			MCH	1 # 0	0 # 0	22.05	23.05	33	PASS
				partial RBs # 0	0 # 0	21.63	22.63	33	PASS
				full RBs # 0	0 # 0	20.82	21.82	33	PASS
				full RBs # 0	full RBs # 0	17.90	18.90	33	PASS
			HCH	1 # 0	0 # 0	22.17	23.17	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	21.86	22.86	33	PASS
				full RBs # 0	0 # 0	20.93	21.93	33	PASS
				full RBs # 0	full RBs # 0	18.58	19.58	33	PASS
				1 # 0	0 # 0	22.01	23.01	33	PASS
				partial RBs # 0	0 # 0	21.85	22.85	33	PASS
				full RBs # 0	0 # 0	21.81	22.81	33	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	18.02	19.02	33	PASS
		MCH		1 # 0	0 # 0	21.97	22.97	33	PASS
				partial RBs # 0	0 # 0	21.84	22.84	33	PASS
				full RBs # 0	0 # 0	20.98	21.98	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	18.10	19.10	33	PASS
			HCH	1 # 0	0 # 0	22.01	23.01	33	PASS
				partial RBs # 0	0 # 0	22.01	23.01	33	PASS
				full RBs # 0	0 # 0	21.04	22.04	33	PASS
				full RBs # 0	full RBs # 0	18.75	19.75	33	PASS
			LCH	1 # 0	0 # 0	21.54	22.54	33	PASS
				partial RBs # 0	0 # 0	21.36	22.36	33	PASS
				full RBs # 0	0 # 0	19.64	20.64	33	PASS
				full RBs # 0	full RBs # 0	17.04	18.04	33	PASS
			MCH	1 # 0	0 # 0	21.58	22.58	33	PASS
	partial	0 # 0		21.15	22.15	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	19.78	20.78	33	PASS	
				full RBs # 0	full RBs # 0	17.85	18.85	33	PASS	
			HCH	1 # 0	0 # 0	21.47	22.47	33	PASS	
				partial RBs # 0	0 # 0	20.94	21.94	33	PASS	
				full RBs # 0	0 # 0	21.57	22.57	33	PASS	
				full RBs # 0	full RBs # 0	17.28	18.28	33	PASS	
			20+20	LCH	1 # 0	0 # 0	21.43	22.43	33	PASS
					partial RBs # 0	0 # 0	20.74	21.74	33	PASS
					full RBs # 0	0 # 0	19.64	20.64	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	17.00	18.00	33	PASS
			MCH	1 # 0	0 # 0	21.49	22.49	33	PASS
				partial RBs # 0	0 # 0	20.84	21.84	33	PASS
				full RBs # 0	0 # 0	19.91	20.91	33	PASS
				full RBs # 0	full RBs # 0	17.97	18.97	33	PASS
			HCH	1 # 0	0 # 0	21.61	22.61	33	PASS
				partial RBs # 0	0 # 0	21.10	22.10	33	PASS
				full RBs # 0	0 # 0	19.99	20.99	33	PASS
				full RBs # 0	full RBs # 0	17.69	18.69	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:

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

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

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

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 I	PCC Test RB	SCC Test RB	Measured [dBm]	Limit [dBm]	Verdict
CA_7C	LTE/TM 1	15+15	LCH	1 # 0	0 # 0	4.33	13	PASS
				partial RBs # 0	0 # 0	4.93	13	PASS
				full RBs # 0	0 # 0	6.29	13	PASS
				full RBs # 0	full RBs # 0	6.84	13	PASS
			MCH	1 # 0	0 # 0	4.51	13	PASS
				partial RBs # 0	0 # 0	5.00	13	PASS
				full RBs # 0	0 # 0	6.05	13	PASS
				full RBs # 0	full RBs # 0	6.84	13	PASS
			HCH	1 # 0	0 # 0	4.62	13	PASS
				partial RBs # 0	0 # 0	5.31	13	PASS
				full RBs # 0	0 # 0	6.04	13	PASS
				full RBs # 0	full	6.73	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured [dBm]	Limit [dBm]	Verdict
					RBs # 0			
		20+20	LCH	1 # 0	0 # 0	4.59	13	PASS
				partial RBs # 0	0 # 0	4.86	13	PASS
				full RBs # 0	0 # 0	5.63	13	PASS
				full RBs # 0	full RBs # 0	6.70	13	PASS
			MCH	1 # 0	0 # 0	4.51	13	PASS
				partial RBs # 0	0 # 0	4.98	13	PASS
				full RBs # 0	0 # 0	5.93	13	PASS
				full RBs # 0	full RBs # 0	6.88	13	PASS
			HCH	1 # 0	0 # 0	4.70	13	PASS
				partial RBs # 0	0 # 0	5.17	13	PASS
				full RBs # 0	0 # 0	5.97	13	PASS
				full RBs # 0	full RBs # 0	6.36	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured [dBm]	Limit [dBm]	Verdict
					0			
	LTE/TM 2	15+15	LCH	1 # 0	0 # 0	4.86	13	PASS
partial RBs # 0				0 # 0	5.89	13	PASS	
full RBs # 0				0 # 0	6.82	13	PASS	
full RBs # 0				full RBs # 0	7.43	13	PASS	
			MCH	1 # 0	0 # 0	4.87	13	PASS
partial RBs # 0				0 # 0	5.96	13	PASS	
full RBs # 0				0 # 0	6.71	13	PASS	
full RBs # 0				full RBs # 0	7.69	13	PASS	
			HCH	1 # 0	0 # 0	5.01	13	PASS
partial RBs # 0				0 # 0	6.00	13	PASS	
full RBs # 0				0 # 0	6.66	13	PASS	
full RBs # 0				full RBs # 0	7.38	13	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured [dBm]	Limit [dBm]	Verdict
		20+20	LCH	1 # 0	0 # 0	5.13	13	PASS
				partial RBs # 0	0 # 0	5.61	13	PASS
				full RBs # 0	0 # 0	6.03	13	PASS
				full RBs # 0	full RBs # 0	7.55	13	PASS
			MCH	1 # 0	0 # 0	5.12	13	PASS
				partial RBs # 0	0 # 0	5.90	13	PASS
				full RBs # 0	0 # 0	6.60	13	PASS
				full RBs # 0	full RBs # 0	7.50	13	PASS
			HCH	1 # 0	0 # 0	5.32	33	PASS
				partial RBs # 0	0 # 0	5.94	33	PASS
				full RBs # 0	0 # 0	6.77	33	PASS
				full RBs # 0	full RBs # 0	7.44	33	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

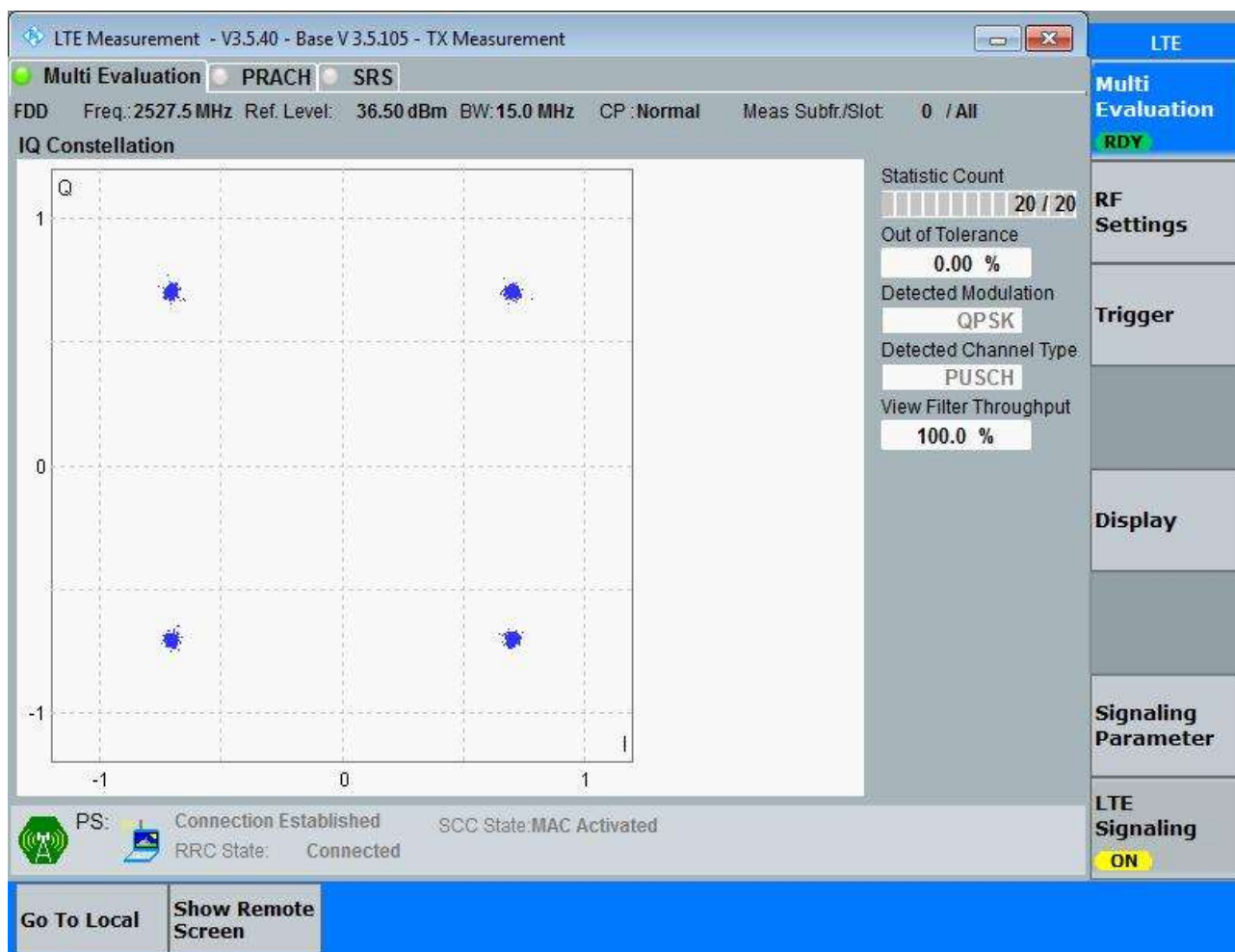
3.1.1 Test Band = CA_7C

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 15+15

3.1.1.1.1 Test Channel = MCH

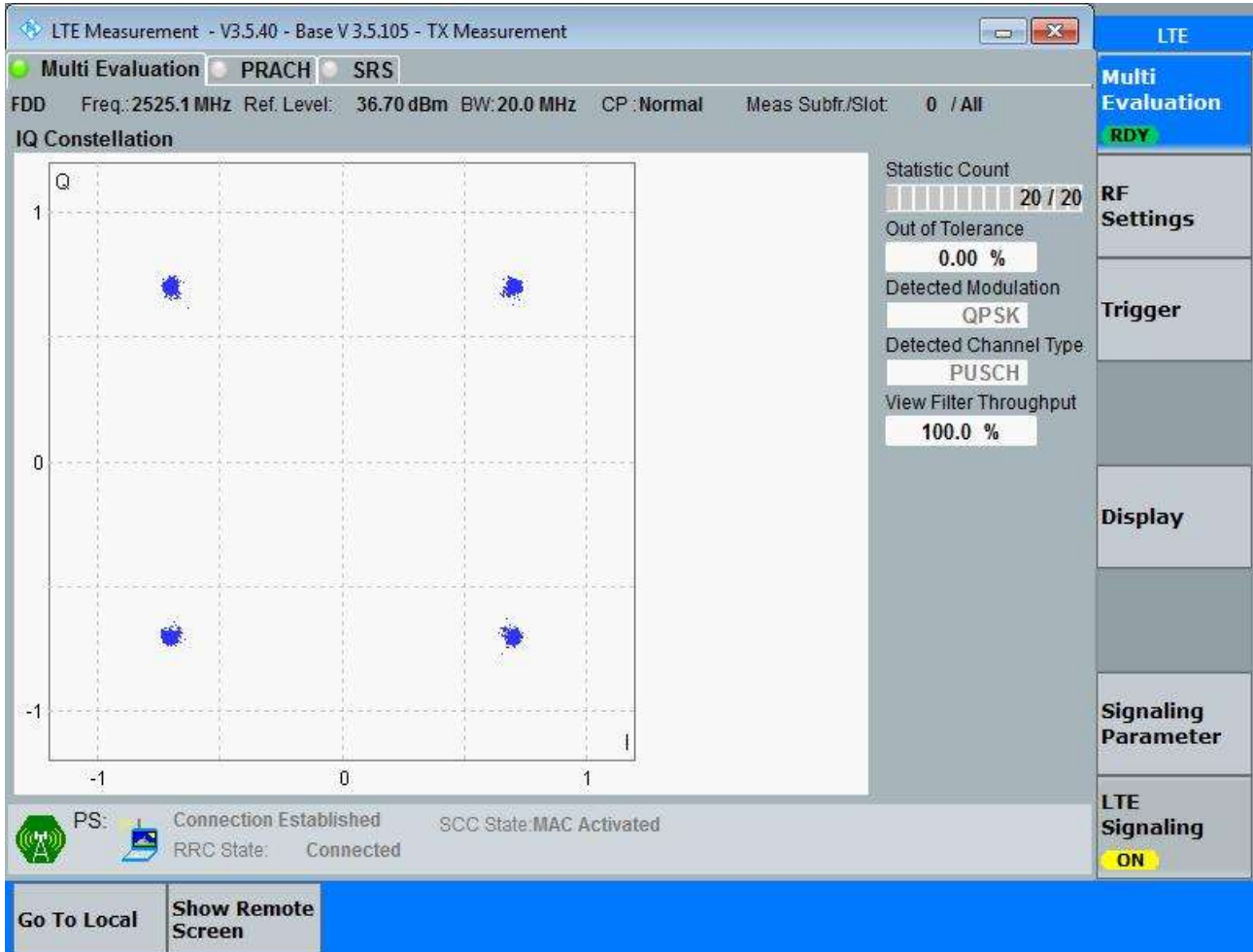
3.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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

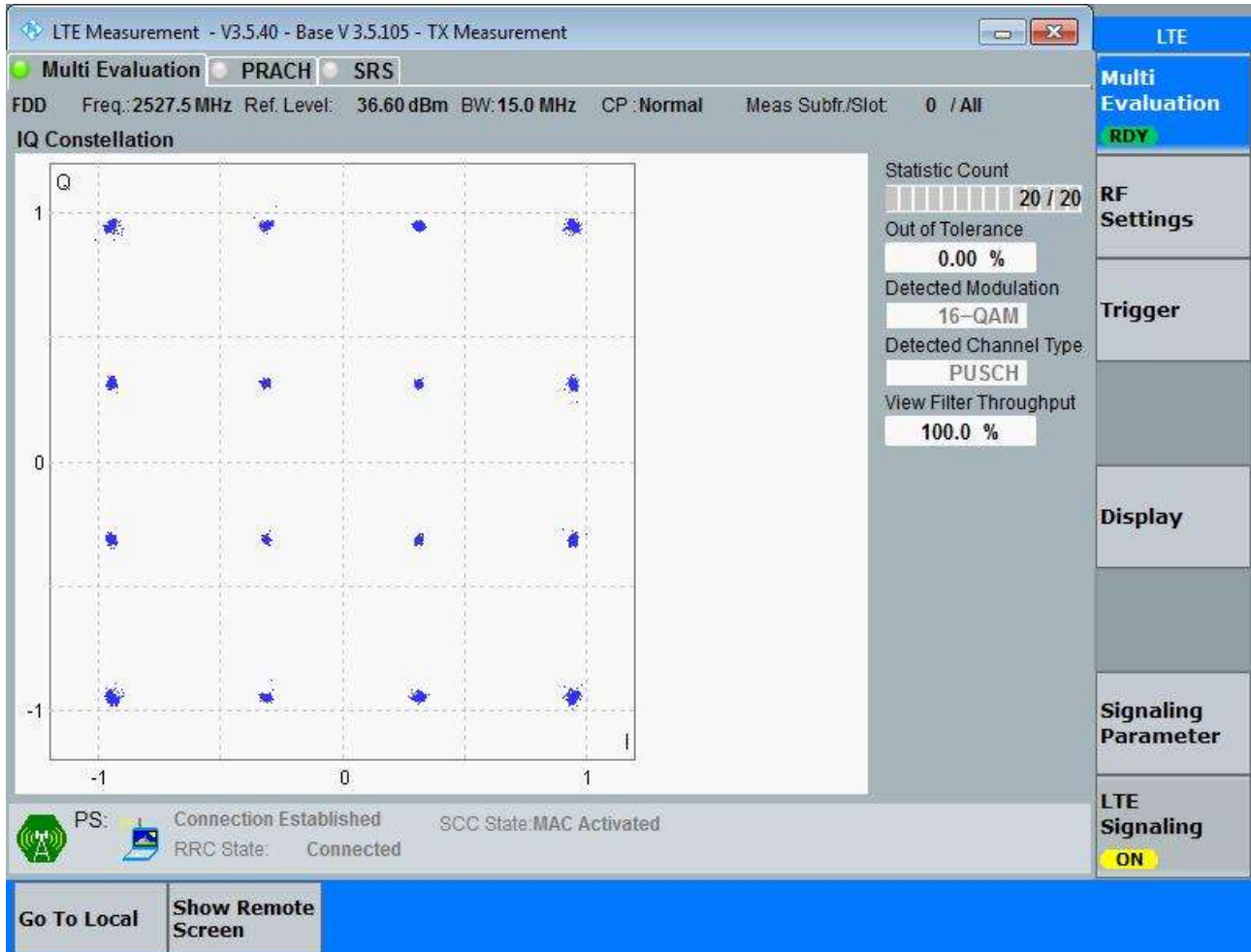


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 15+15

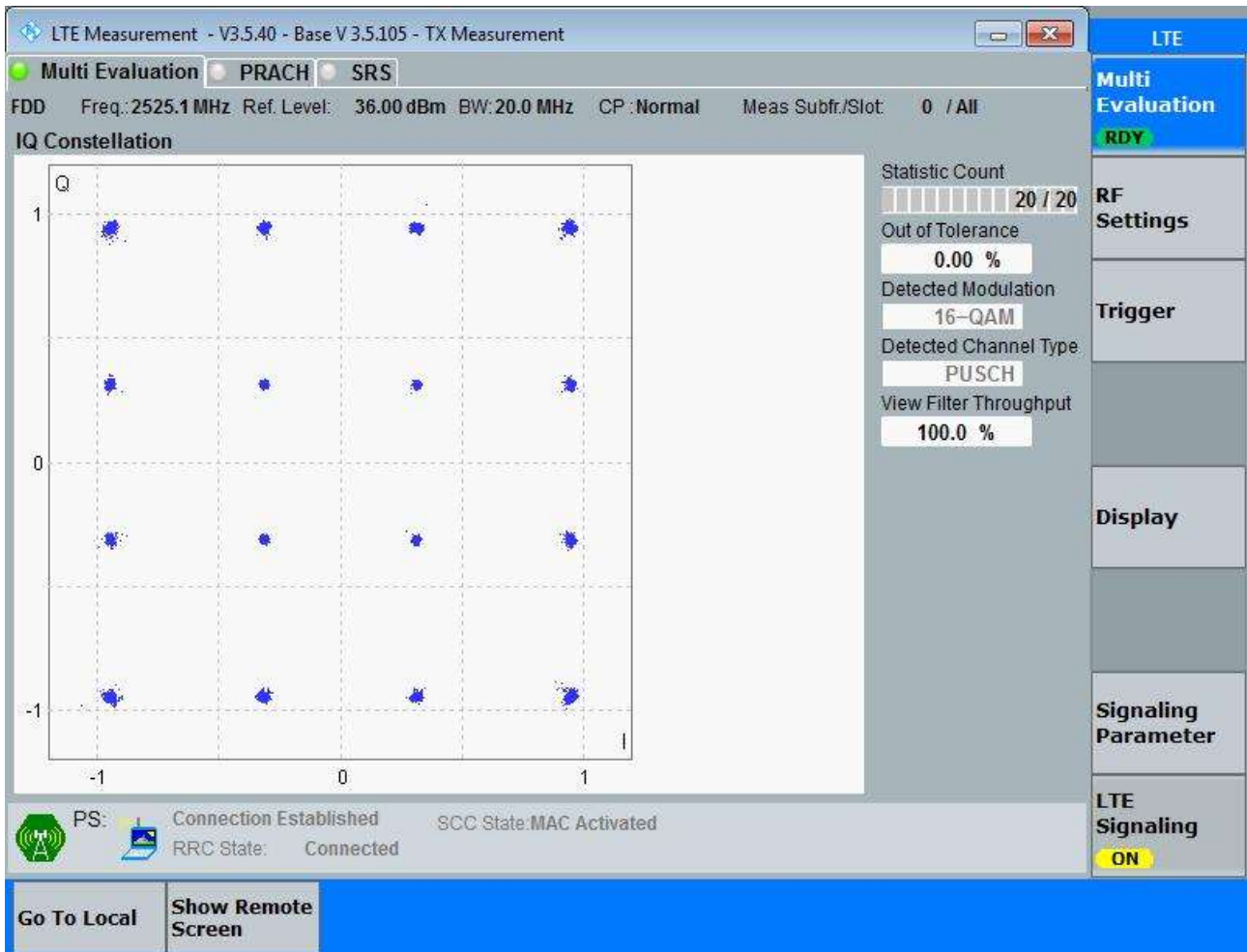
3.1.1.2.1.1 Test Channel = MCH

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_7C	LTE/TM1	15+15	LCH	full RBs # 0	full RBs # 0	29.09	31.26	PASS
			MCH	full RBs # 0	full RBs # 0	28.98	31.35	PASS
			HCH	full RBs # 0	full RBs # 0	28.99	31.23	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	38.61	41.41	PASS
			MCH	full RBs # 0	full RBs # 0	38.42	41.39	PASS
			HCH	full RBs # 0	full RBs # 0	38.39	41.27	PASS
	LTE/TM2	15+15	LCH	full RBs # 0	full RBs # 0	29.02	31.16	PASS
			MCH	full RBs # 0	full RBs # 0	28.94	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	28.97	31.12	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	38.62	41.48	PASS
	MCH		full RBs # 0	full RBs # 0	38.38	41.33	PASS	
	HCH		full RBs # 0	full RBs # 0	38.34	41.26	PASS	

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = CA_7C

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 15+15

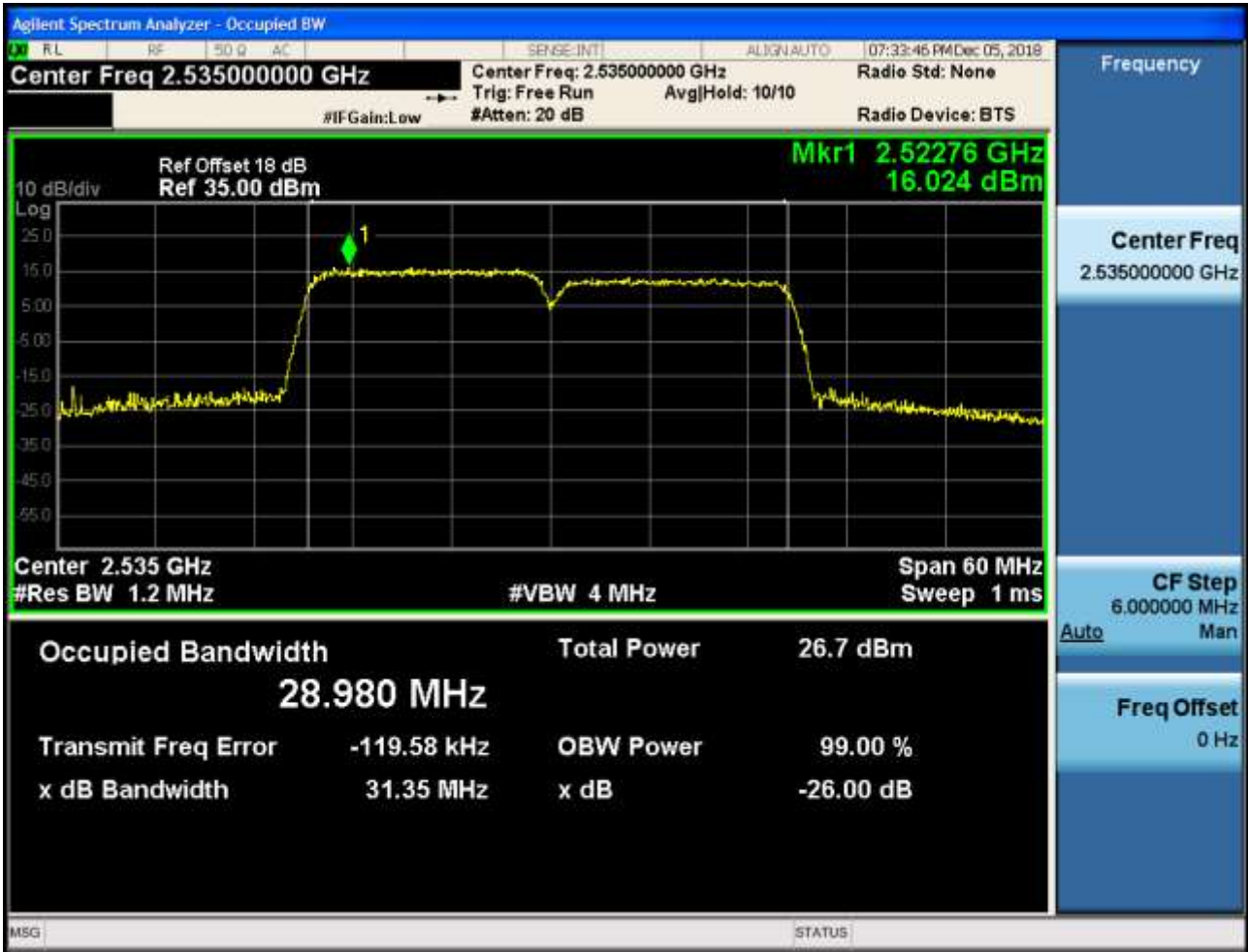
4.1.1.1.1.1 Test Channel = LCH

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



4.1.1.1.2 Test Channel = MCH

4.1.1.1.2.1 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

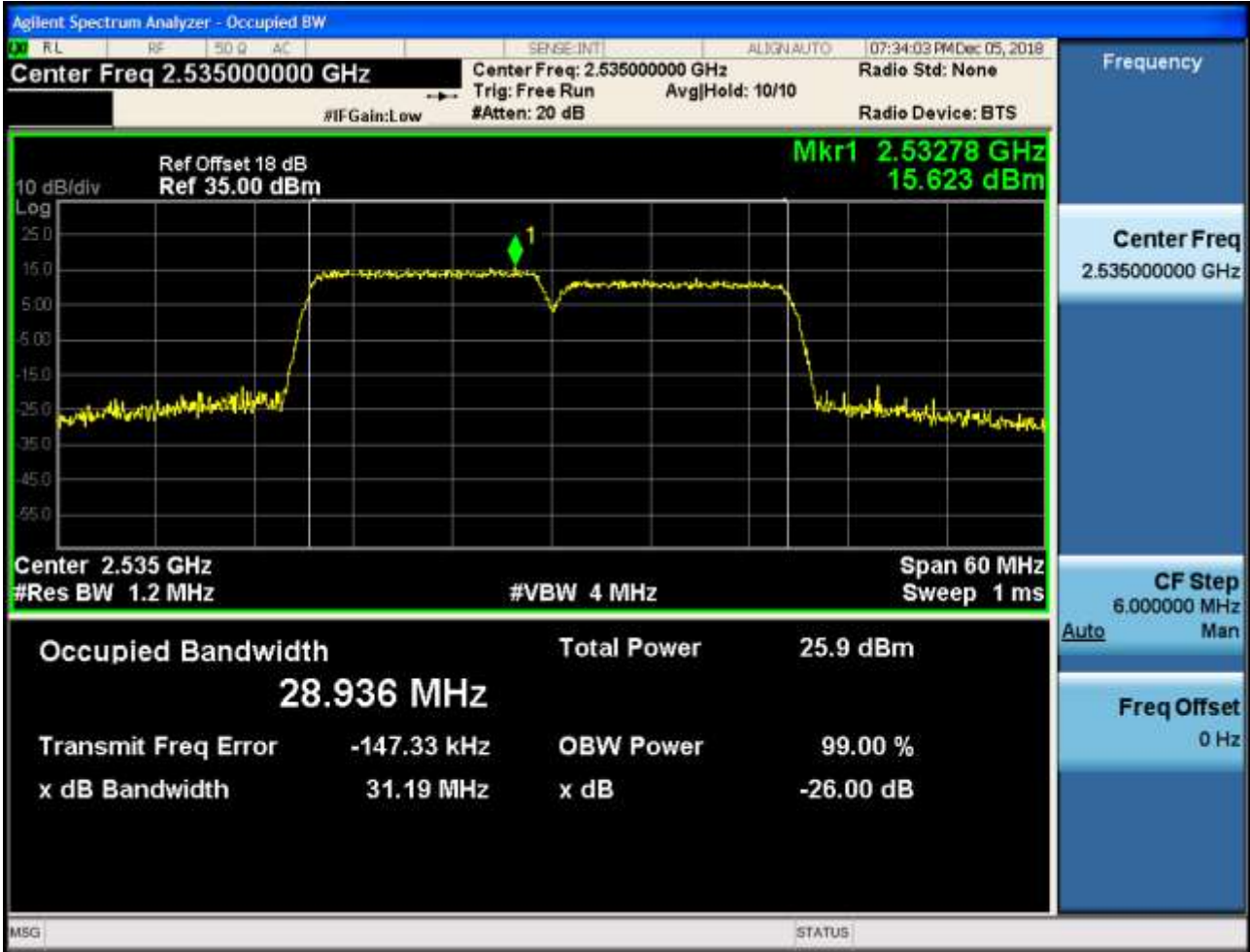
4.1.1.1.1.1 Test Channel = LCH

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



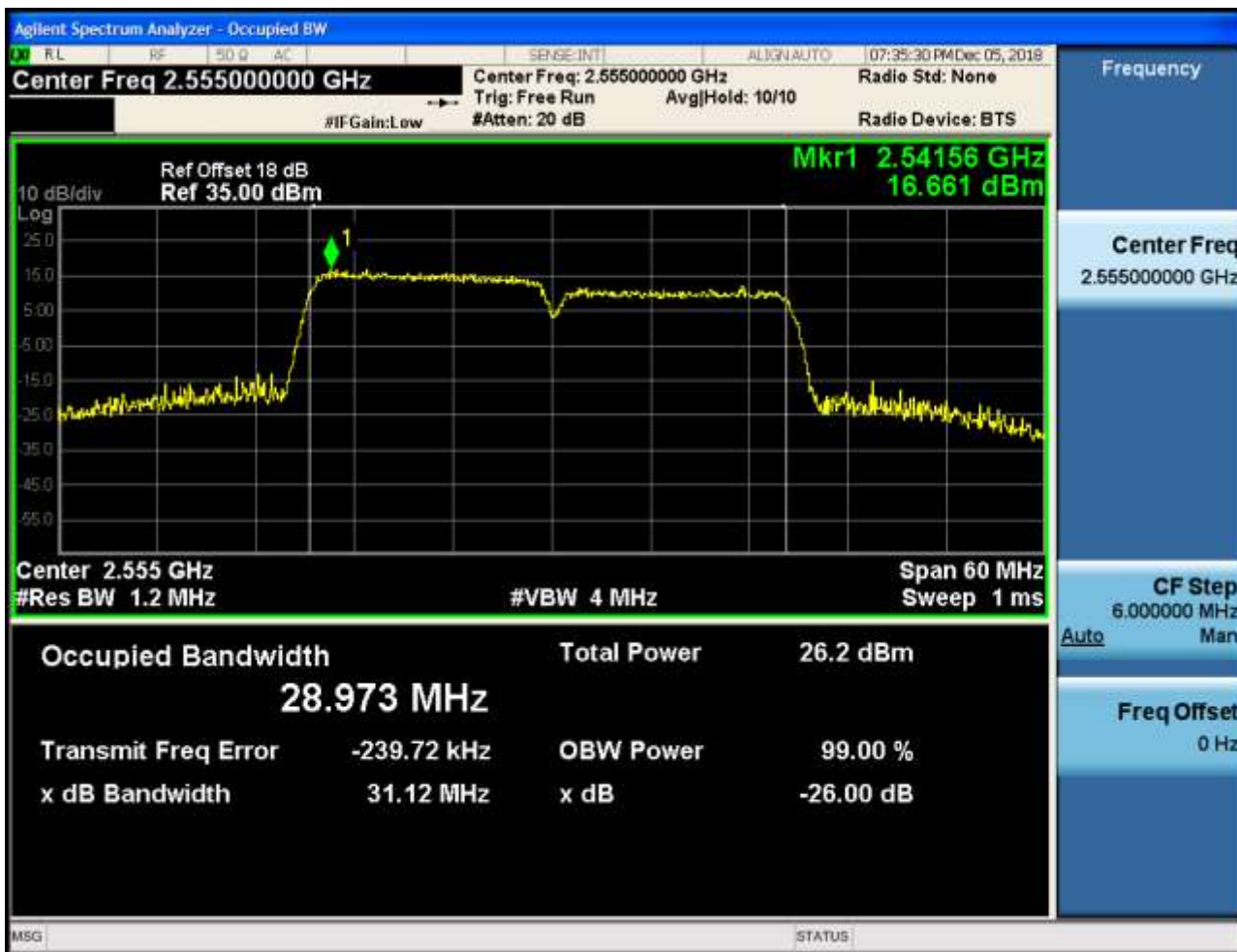
4.1.1.1.1.2 Test Channel = MCH

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

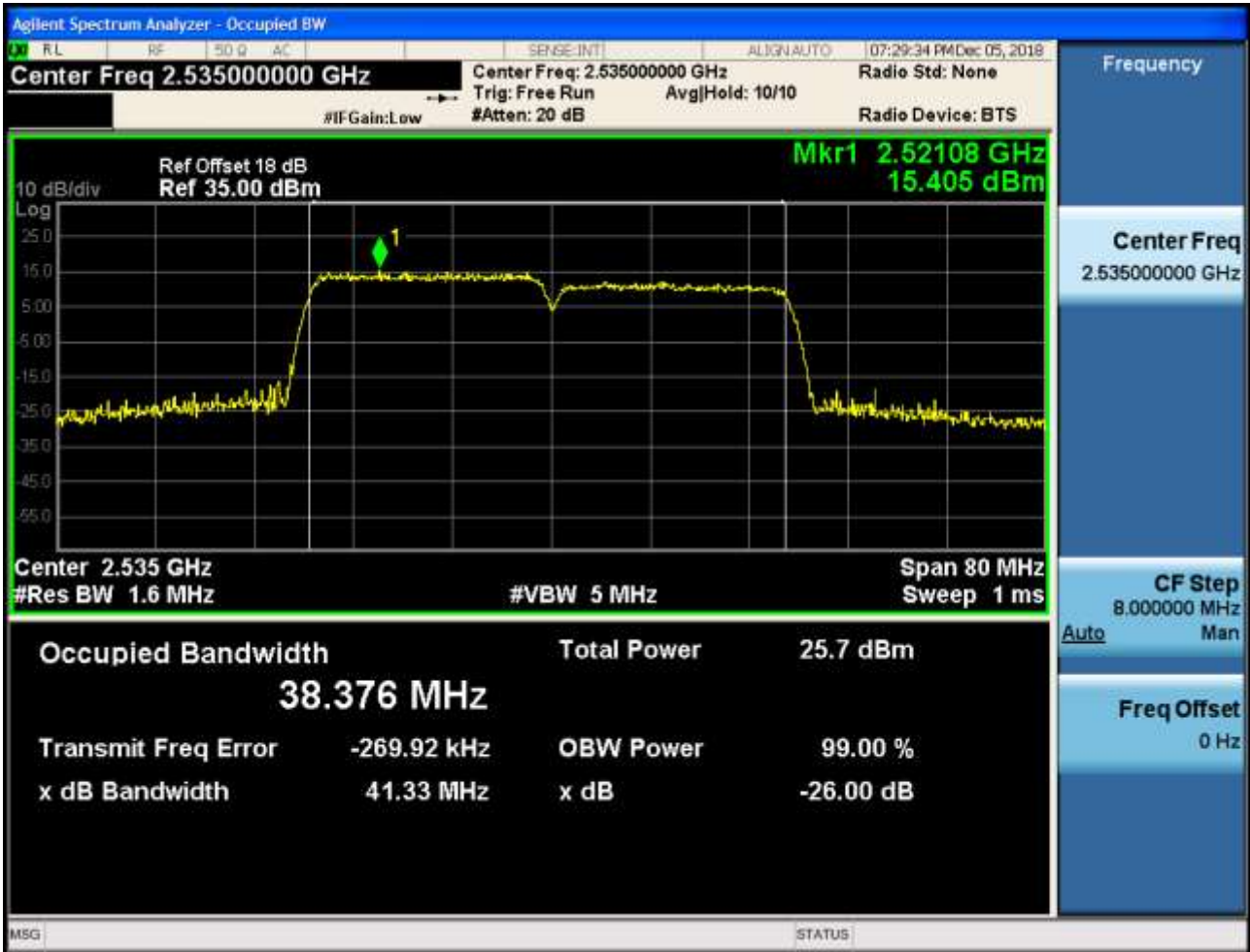
4.1.1.1.2.1 Test Channel = LCH

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_7C

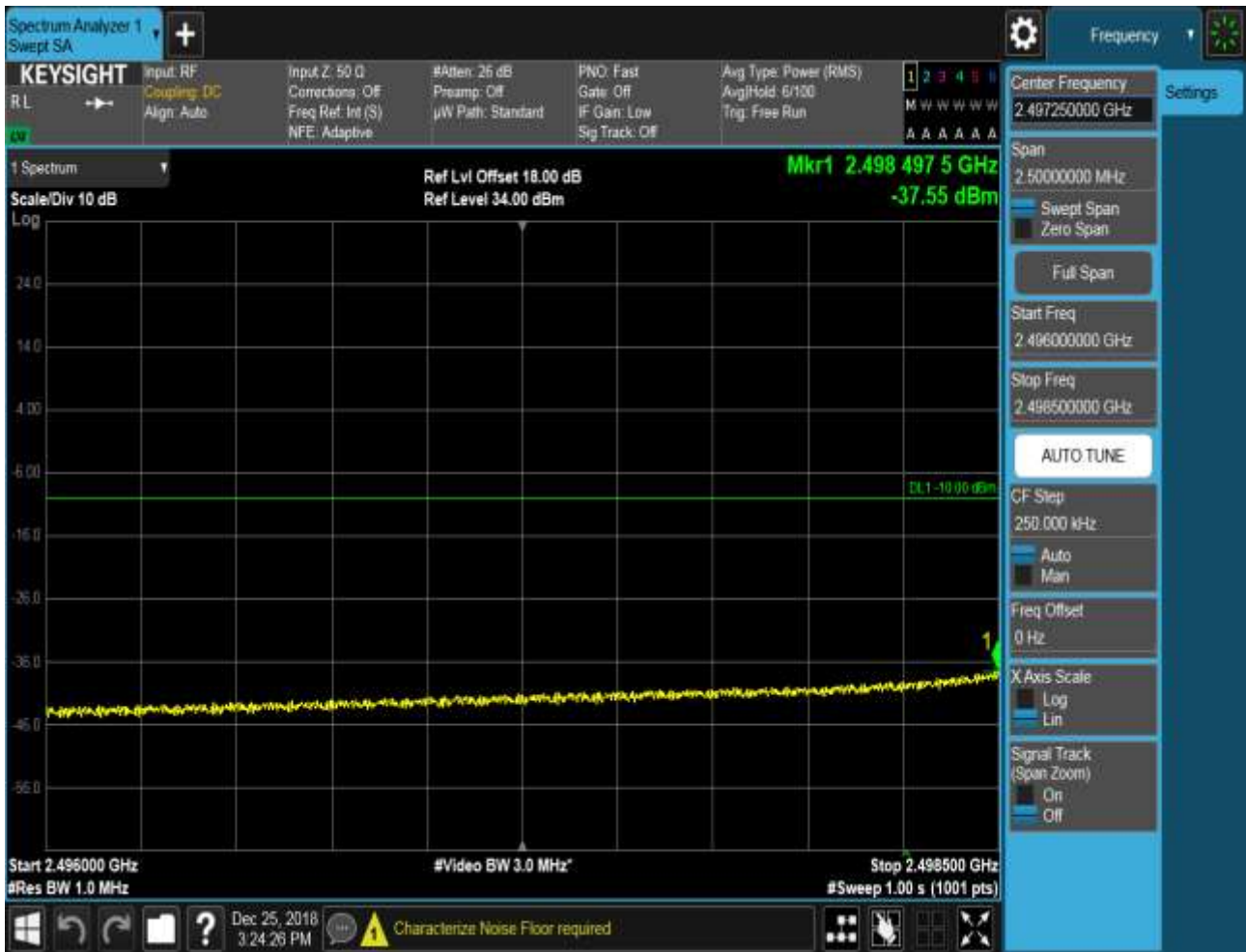
5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 15+15

5.1.1.1.1 Test Channel = LCH

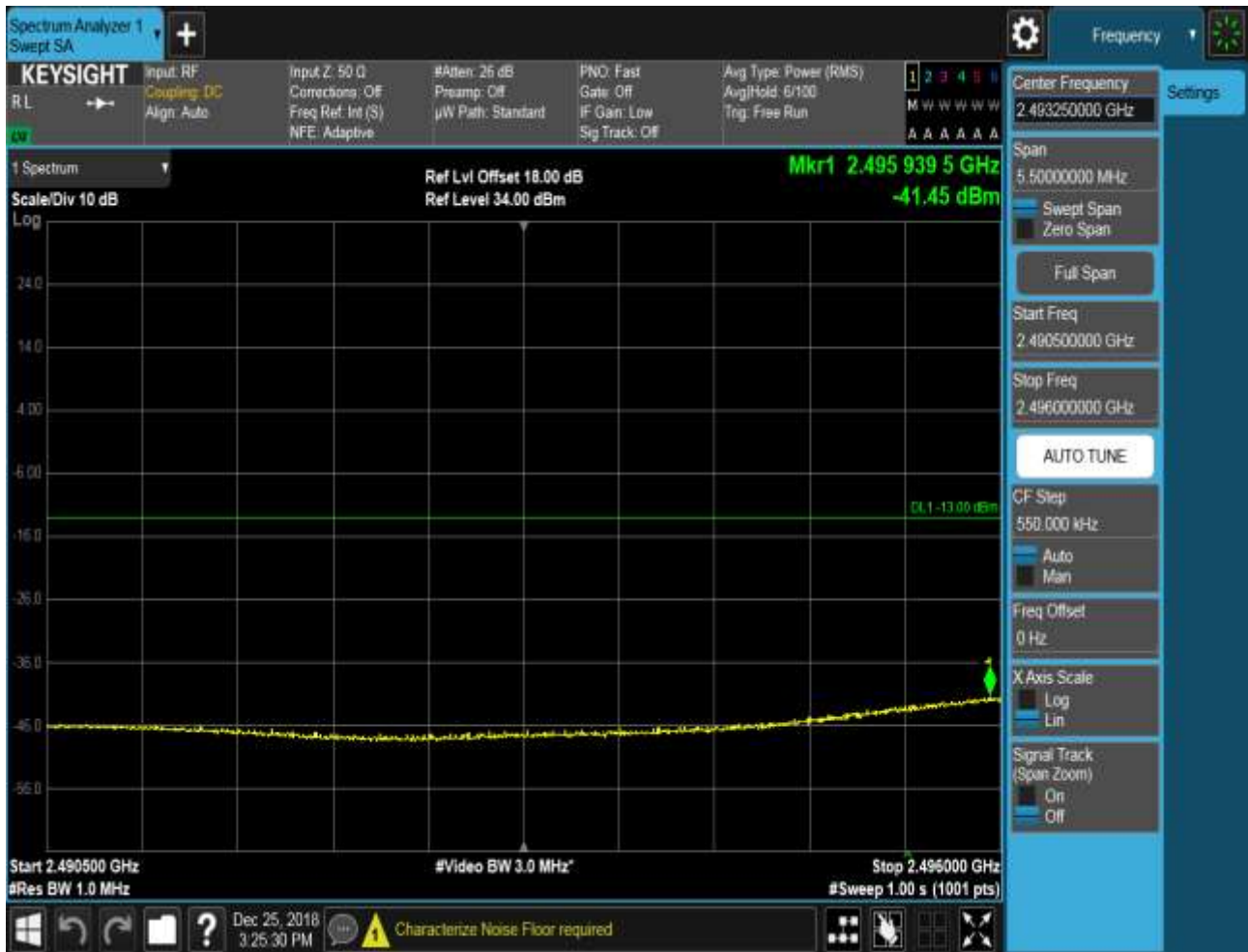
5.1.1.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







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



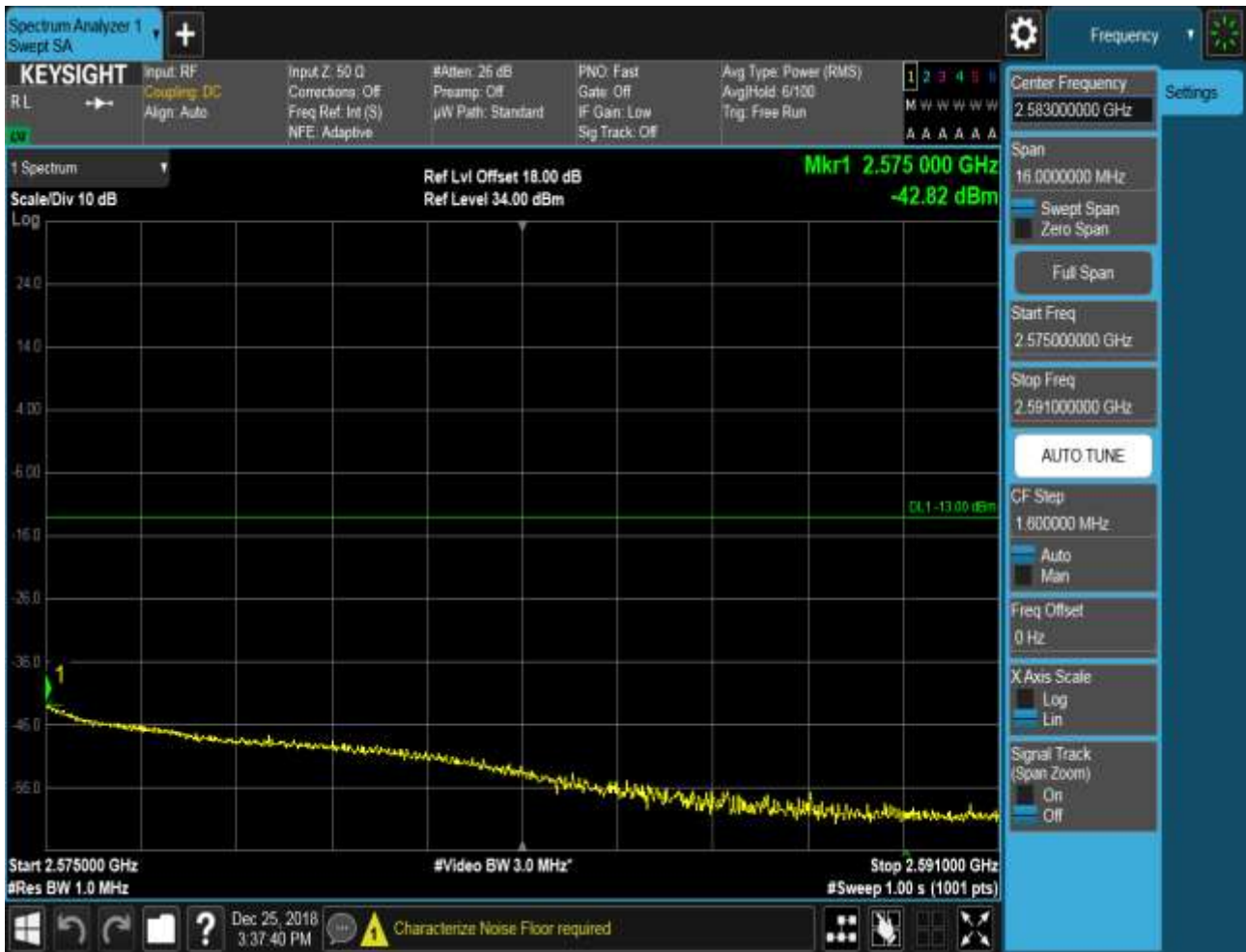




5.1.1.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max







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







5.1.1.1.2.4 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

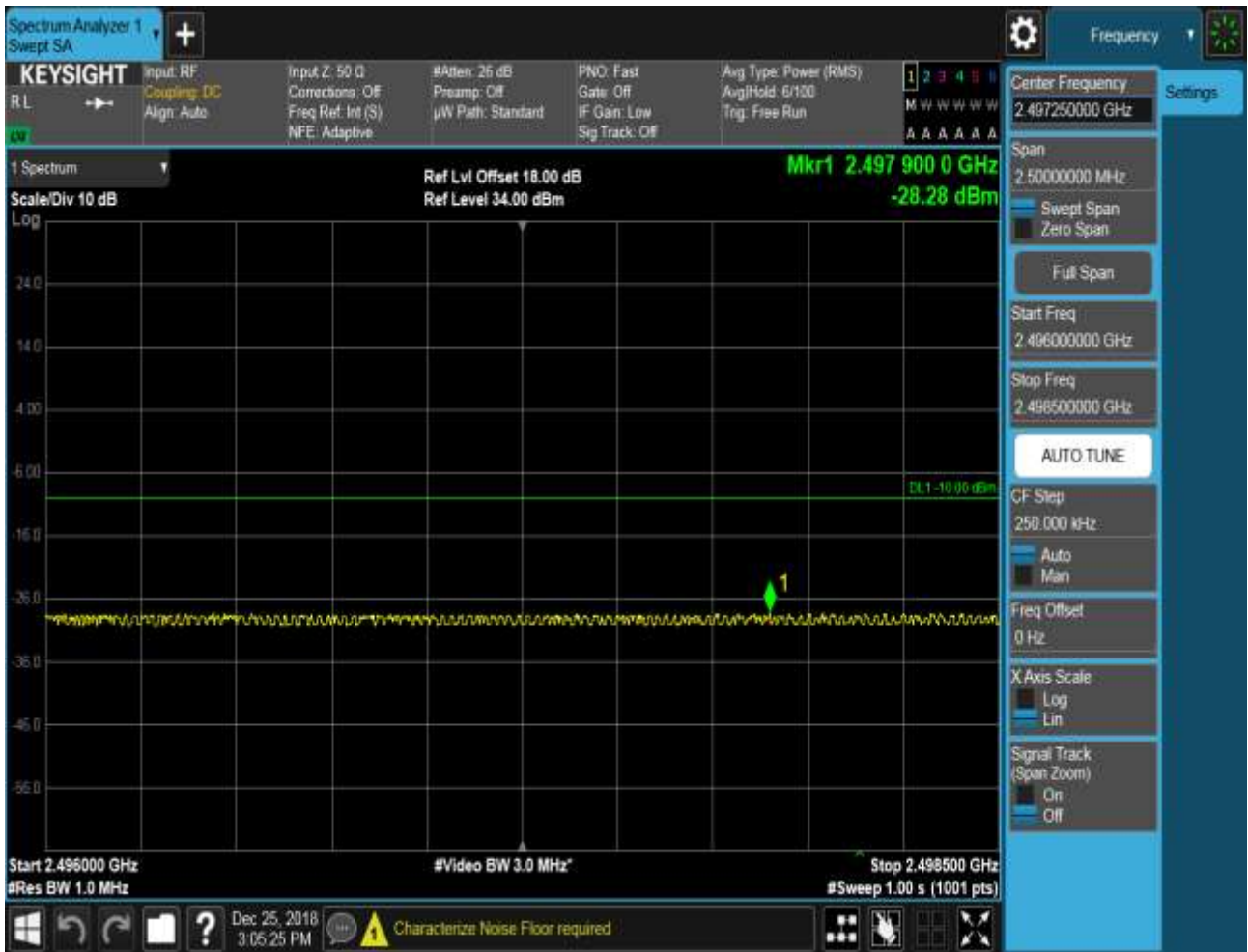






5.1.1.1.2.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs







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



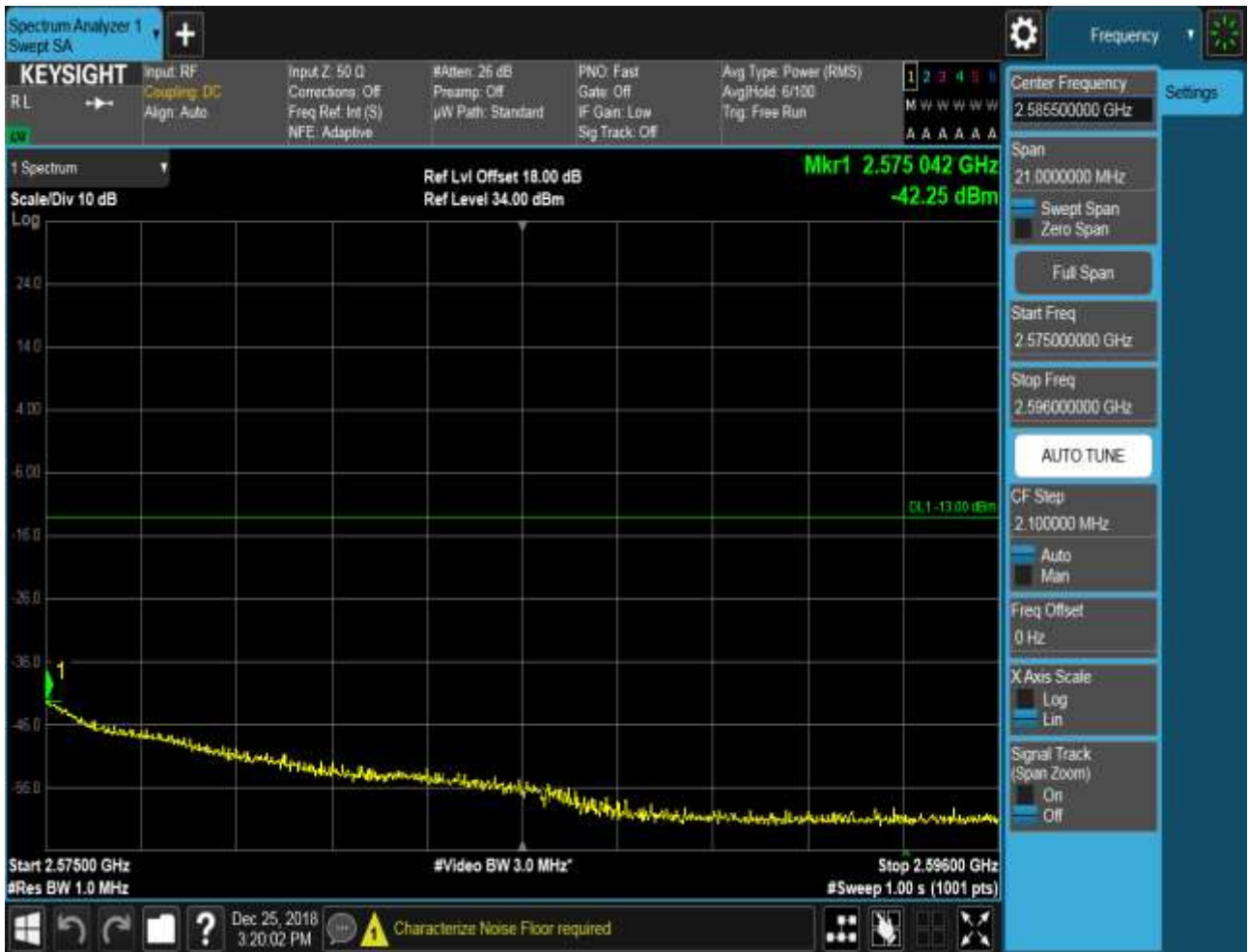




5.1.1.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max







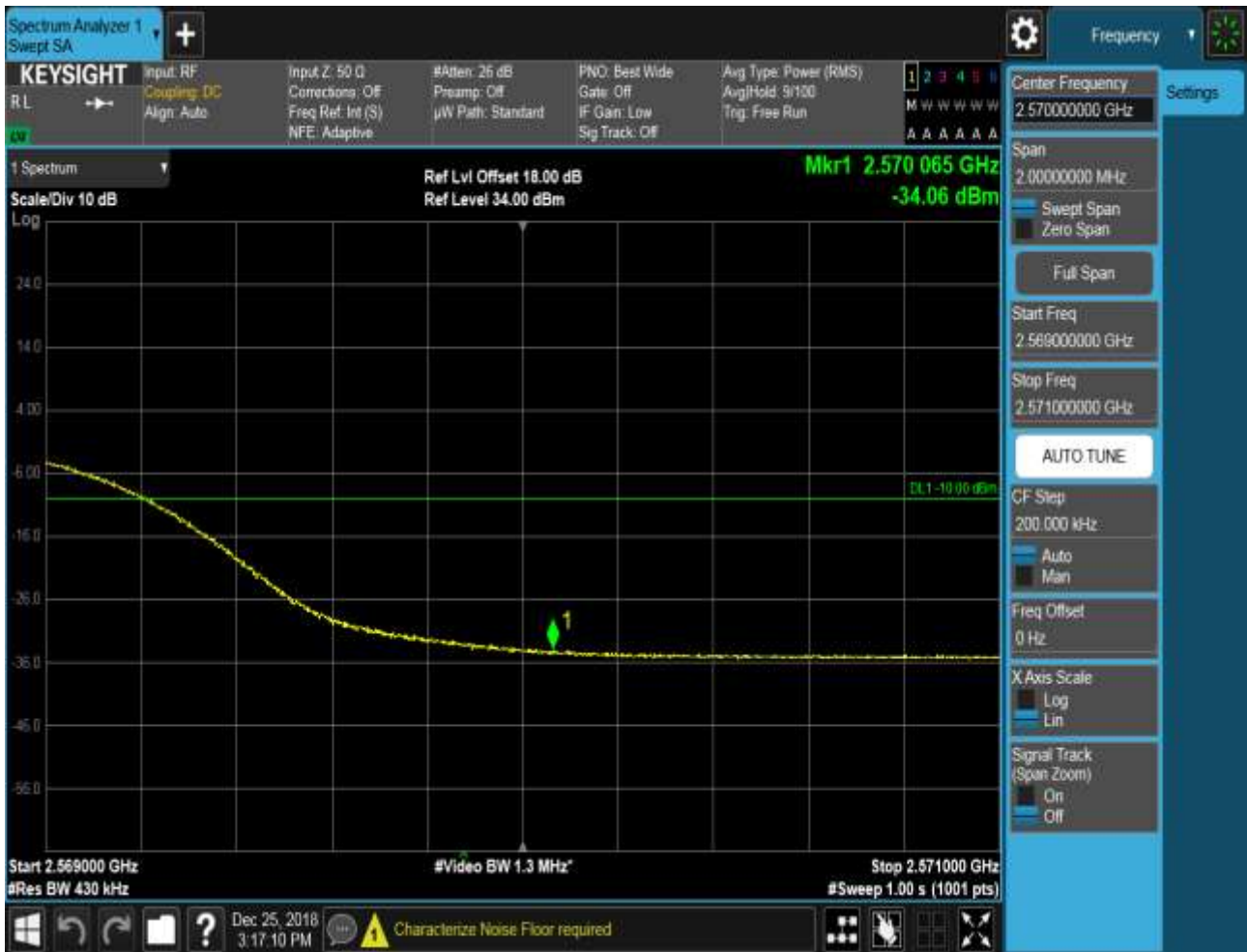
5.1.1.1.2.2.3 PCC Test RB = 0 & SCC Test RB = full RBs





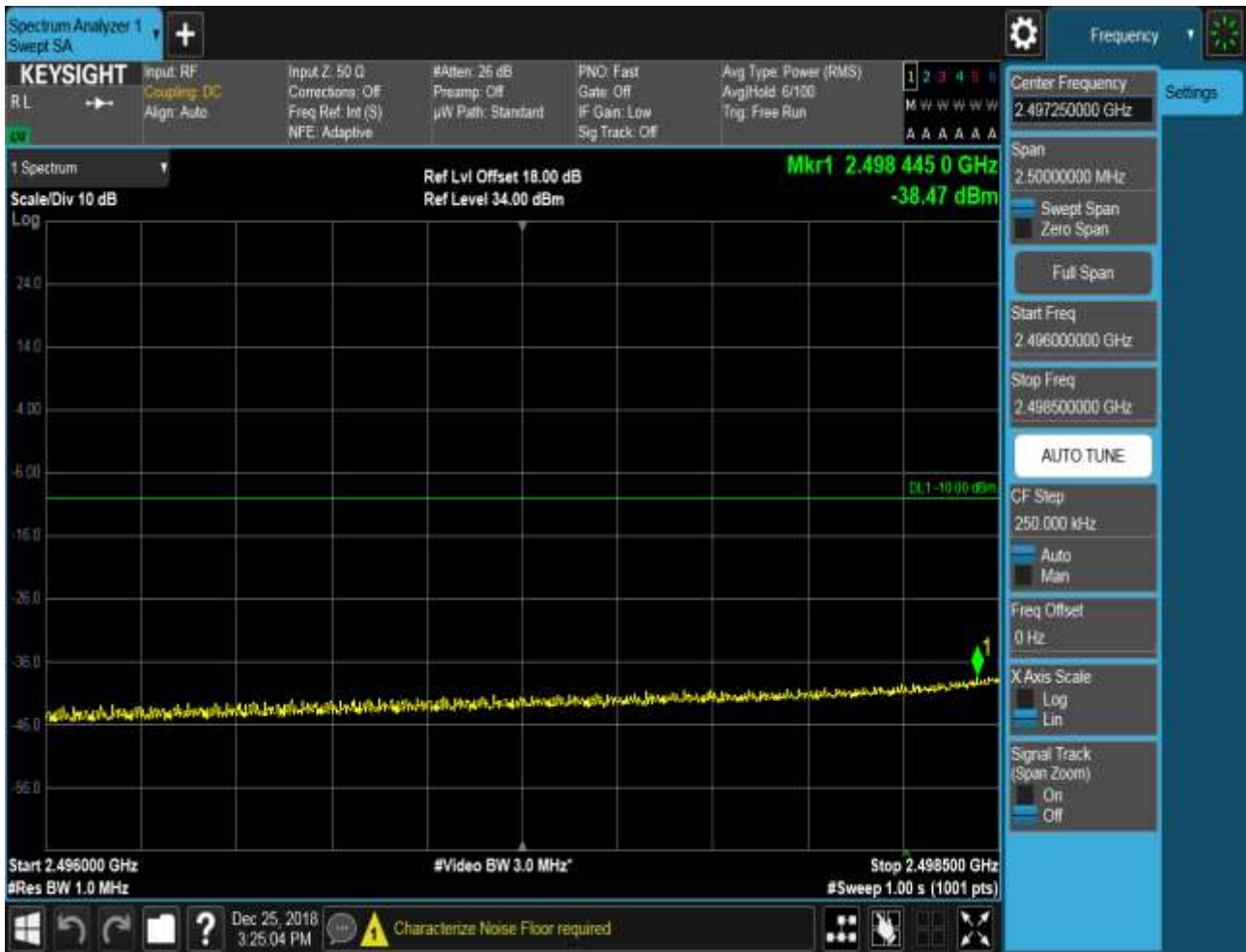


5.1.1.1.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs





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



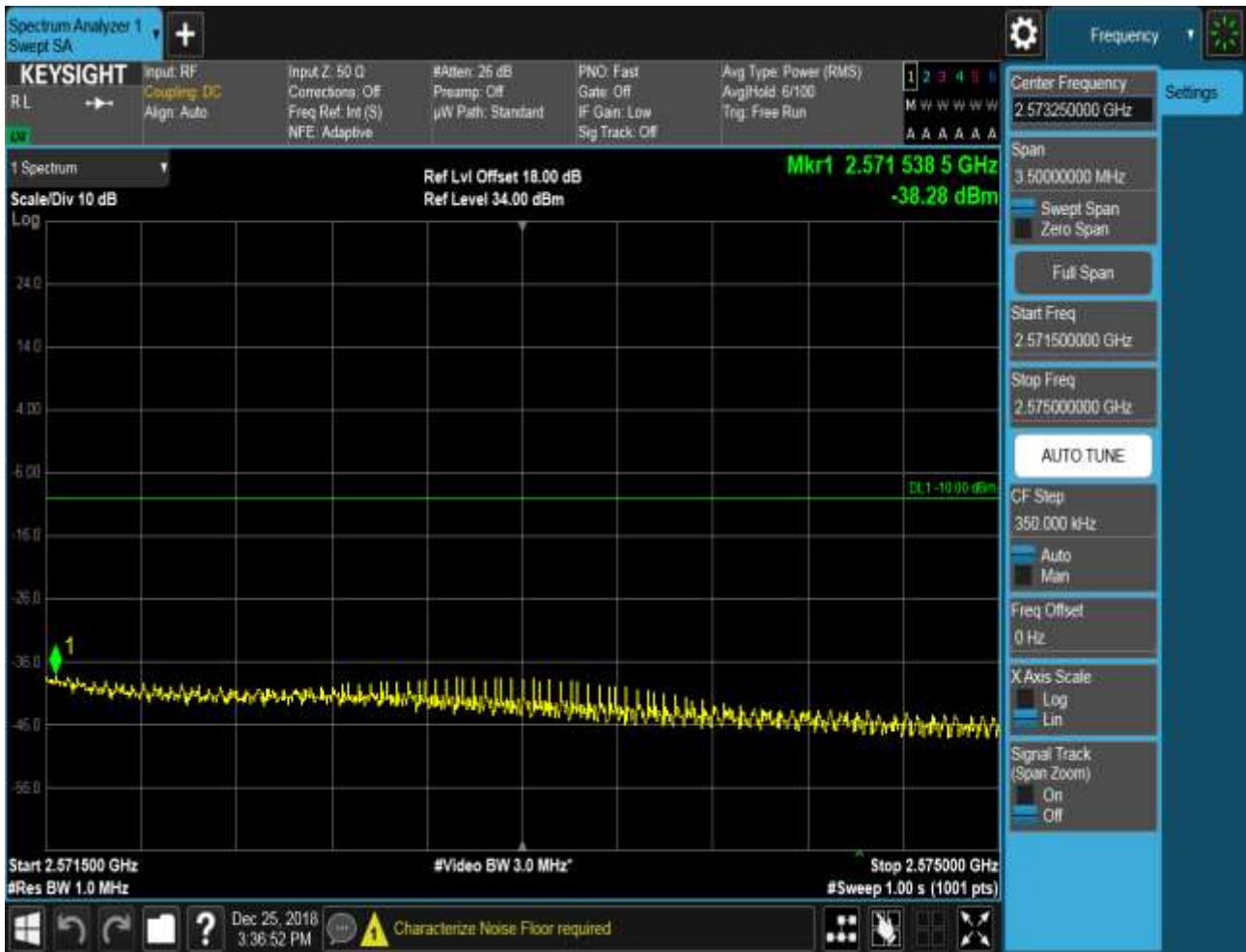




5.1.1.2.1.2 Test Channel = HCH

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





