



# 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
		20+20	LCH	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
				full RBs # 0	full RBs # 0	18.02	19.02	33	PASS
				1 # 0	0 # 0	21.97	22.97	33	PASS
			MCH	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
	LTE/T M2	15+15	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
				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
			MCH	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
			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:

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

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

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

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

Detector: RMS

## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel 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
		20+20			RBs # 0			
				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
				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
				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
	LTE/TM 2	15+15			0			
				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
				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
				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

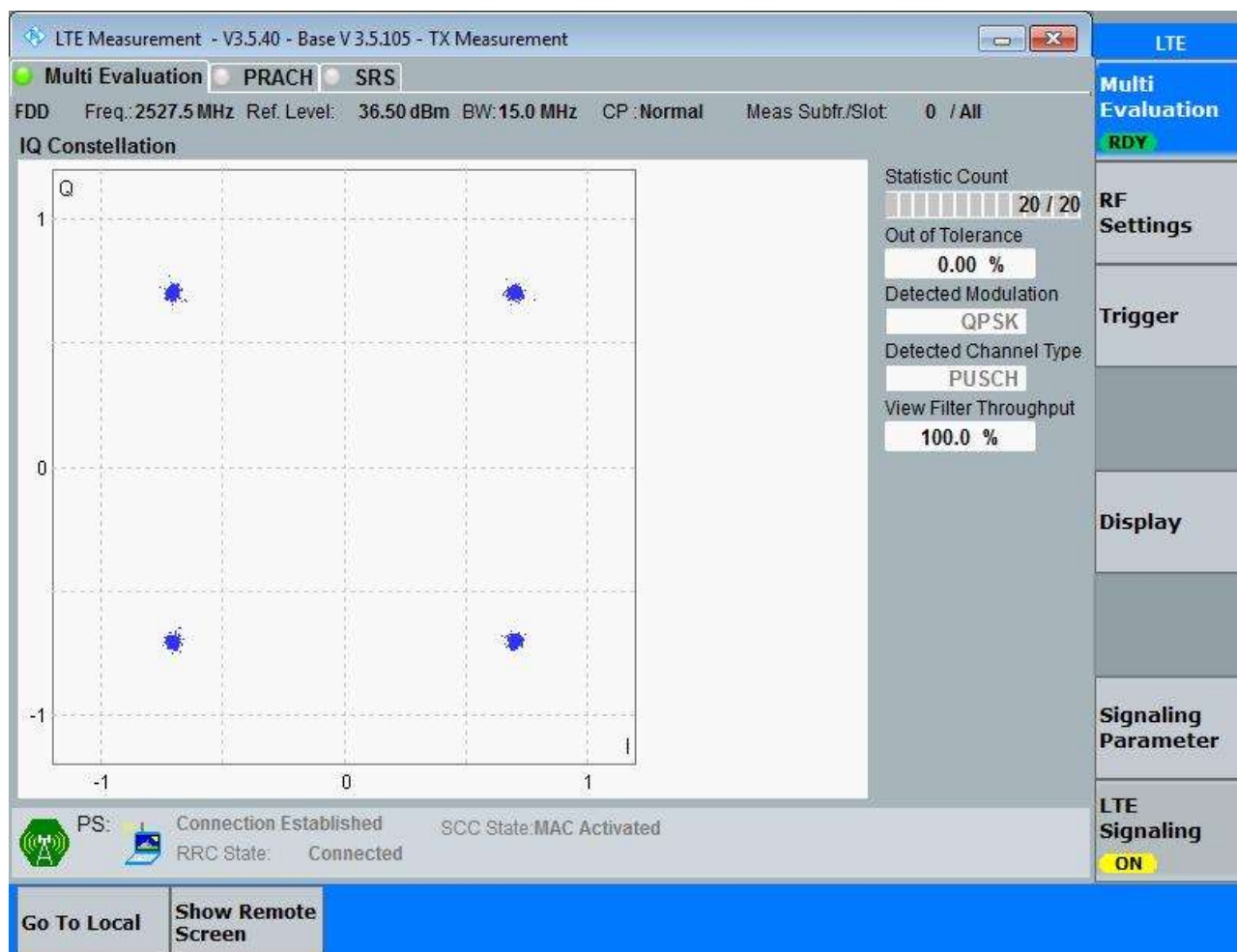
##### 3.1.1 Test Band = CA\_7C

##### 3.1.1.1 Test Mode = LTE/TM1

##### 3.1.1.1.1 Test Bandwidth = 15+15

##### 3.1.1.1.1.1 Test Channel = MCH

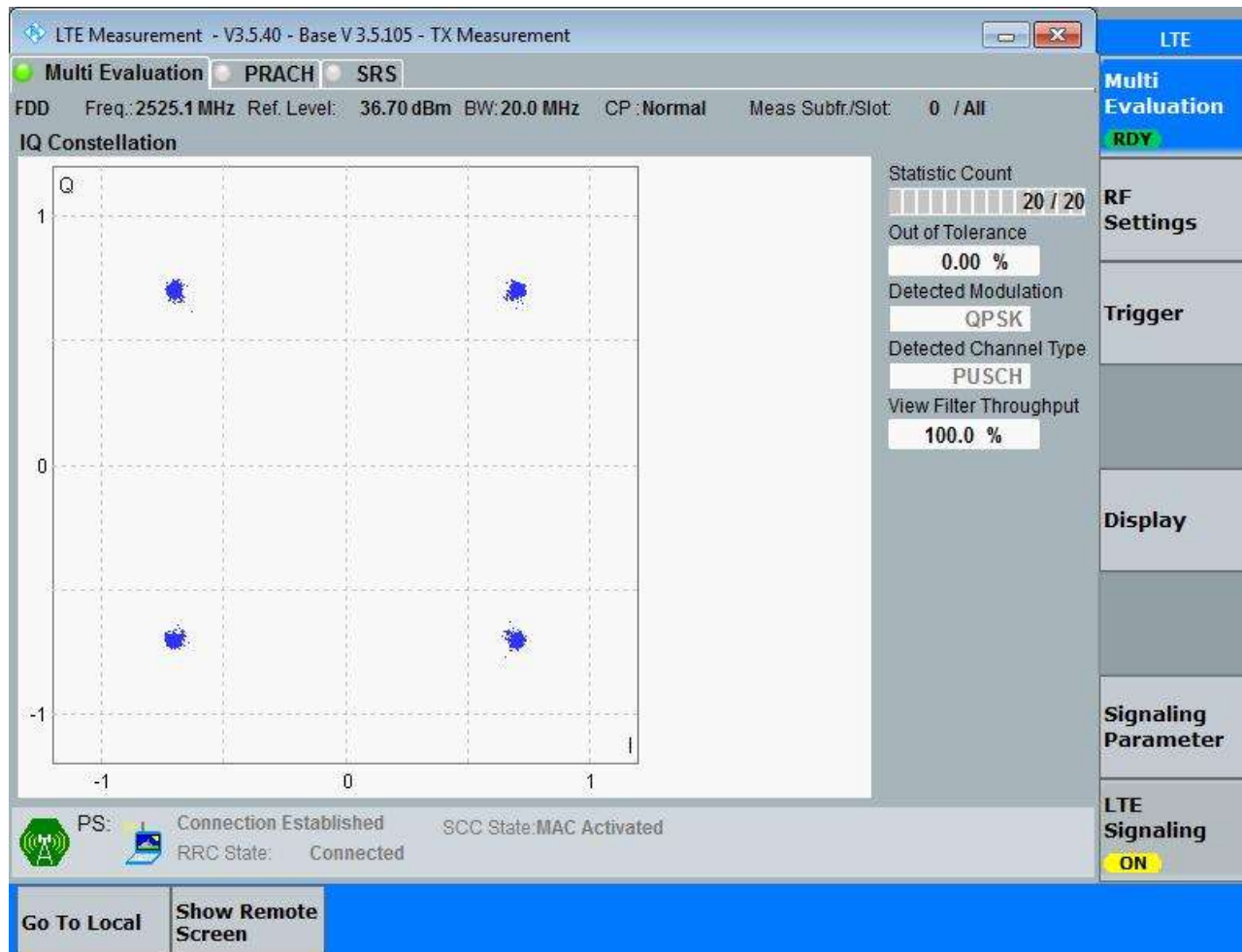
##### 3.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



### 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

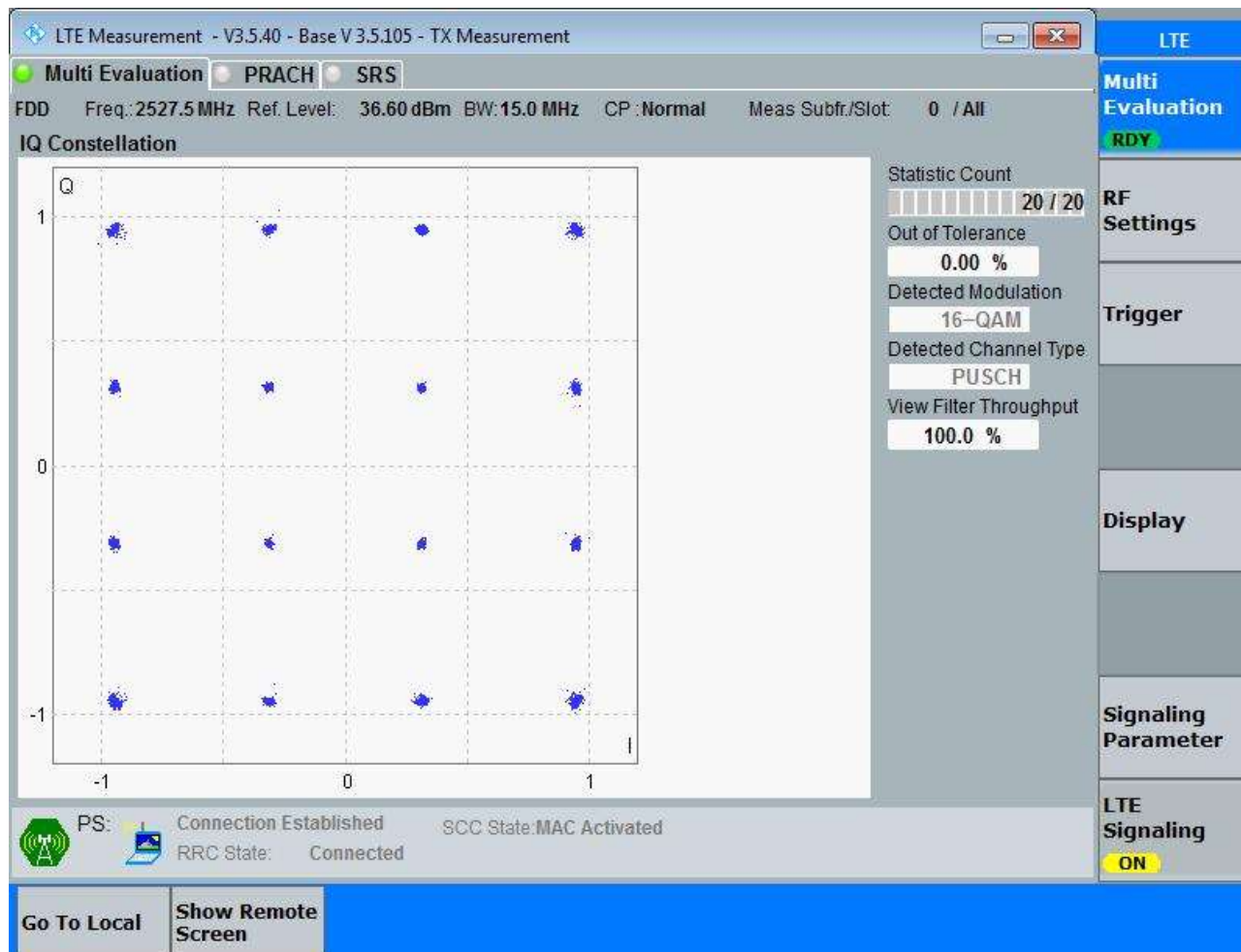


### 3.1.1.2 Test Mode = LTE/TM2

#### 3.1.1.2.1 Test Bandwidth = 15+15

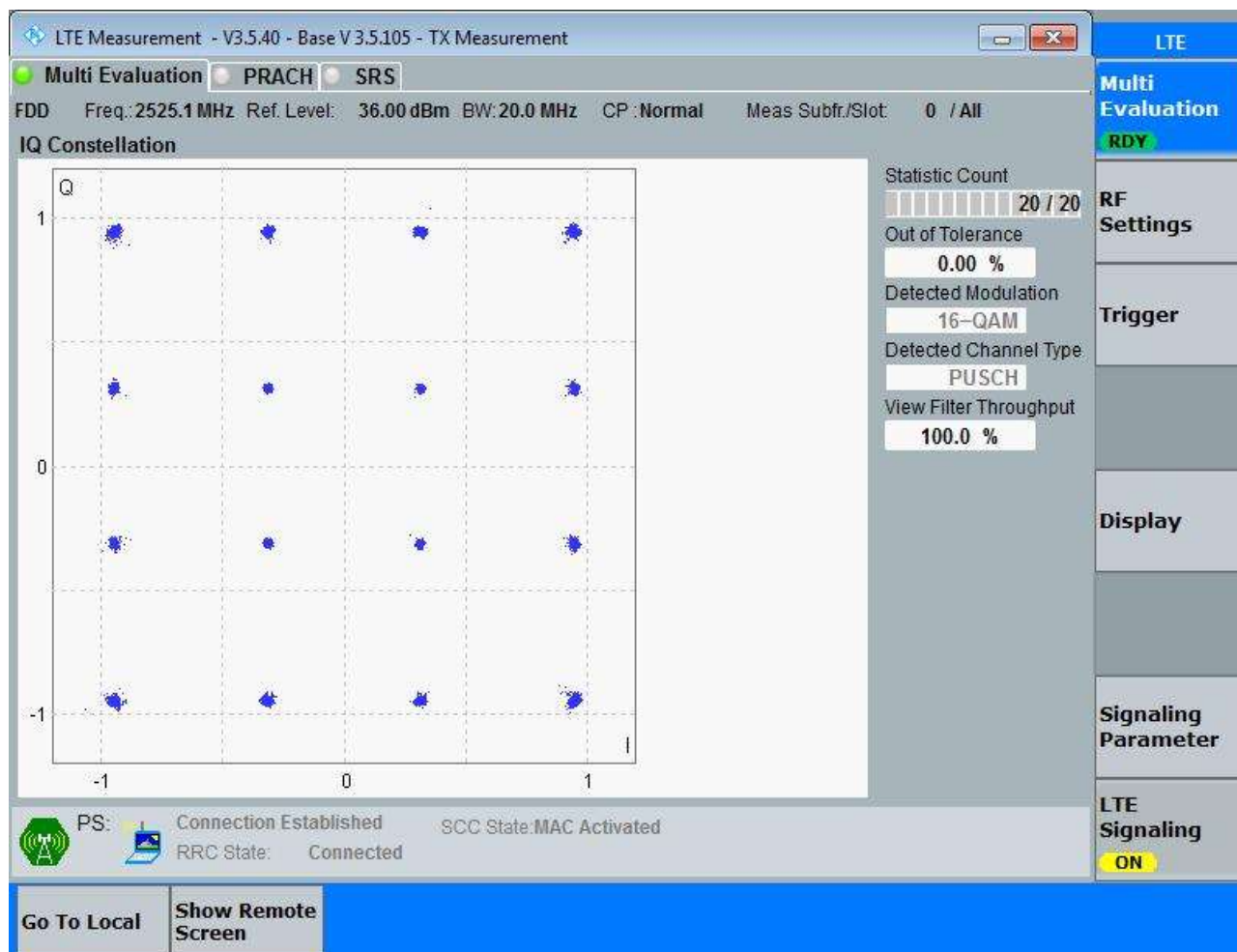
##### 3.1.1.2.1.1 Test Channel = MCH

##### 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_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
		20+20	HCH	full RBs # 0	full RBs # 0	28.97	31.12	PASS
			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

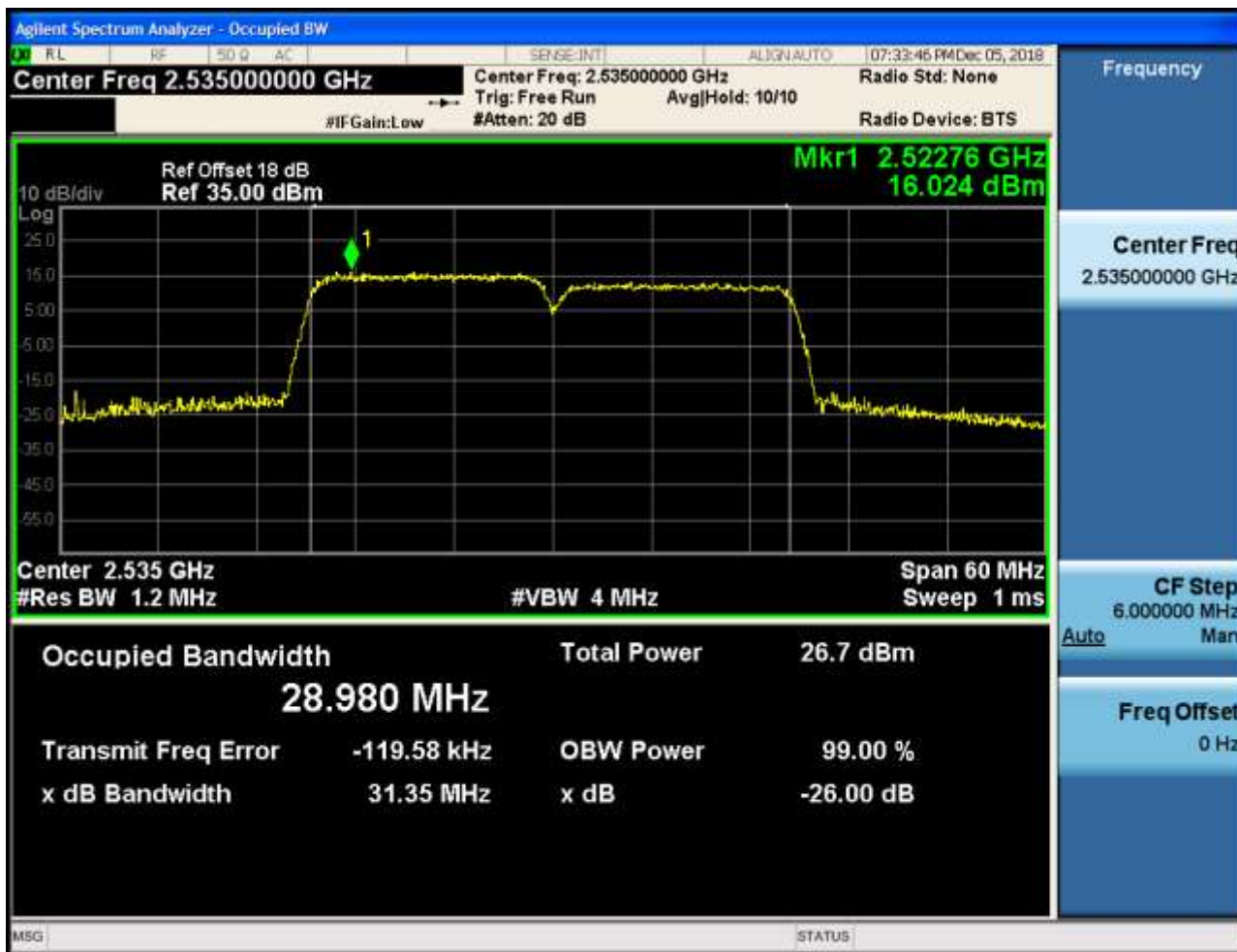
##### 4.1.1.1.1.1 Test Channel = LCH

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



#### 4.1.1.1.1.2 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

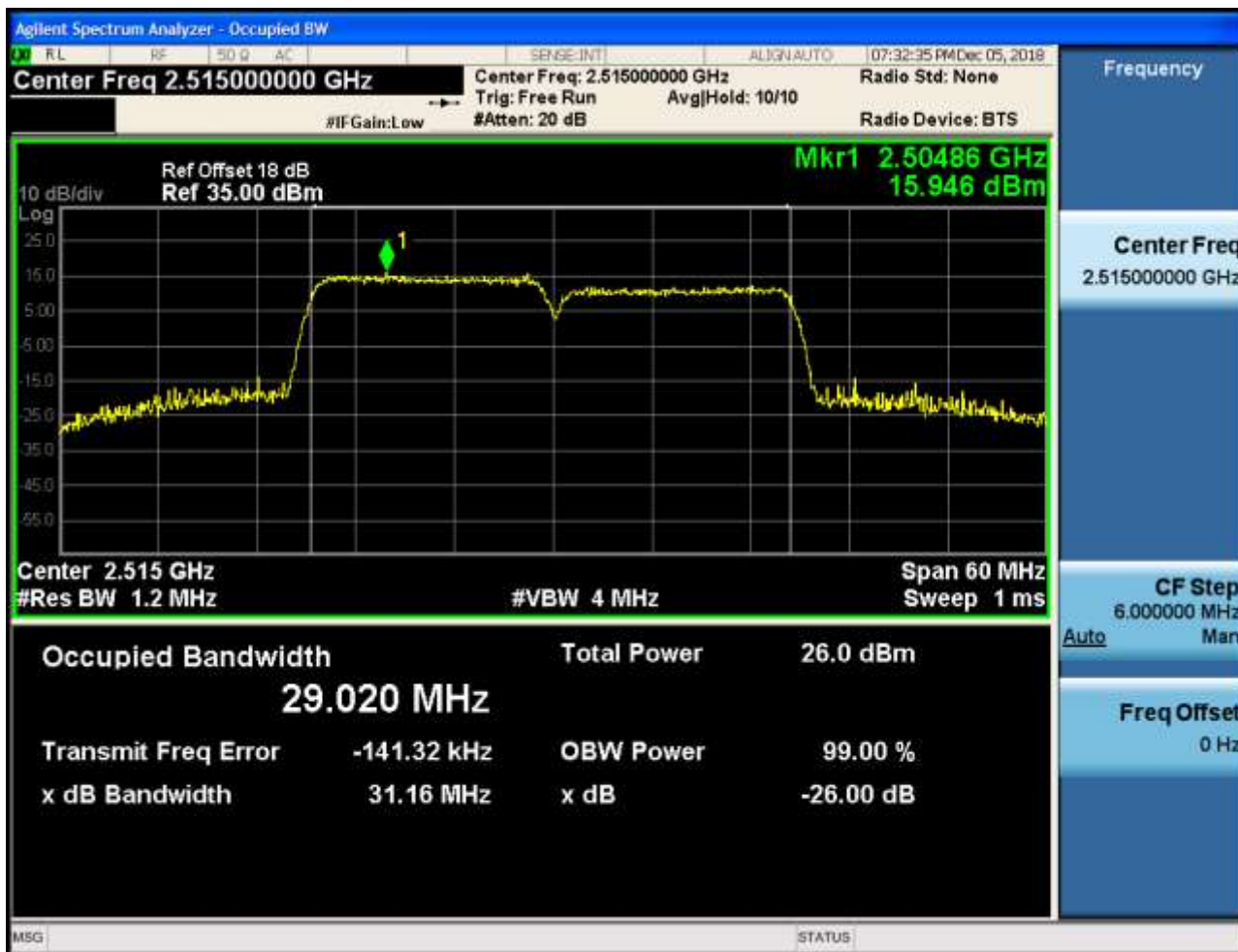


#### 4.1.1.1 Test Mode = LTE/TM2

##### 4.1.1.1.1 Test Bandwidth = 15+15

##### 4.1.1.1.1.1 Test Channel = LCH

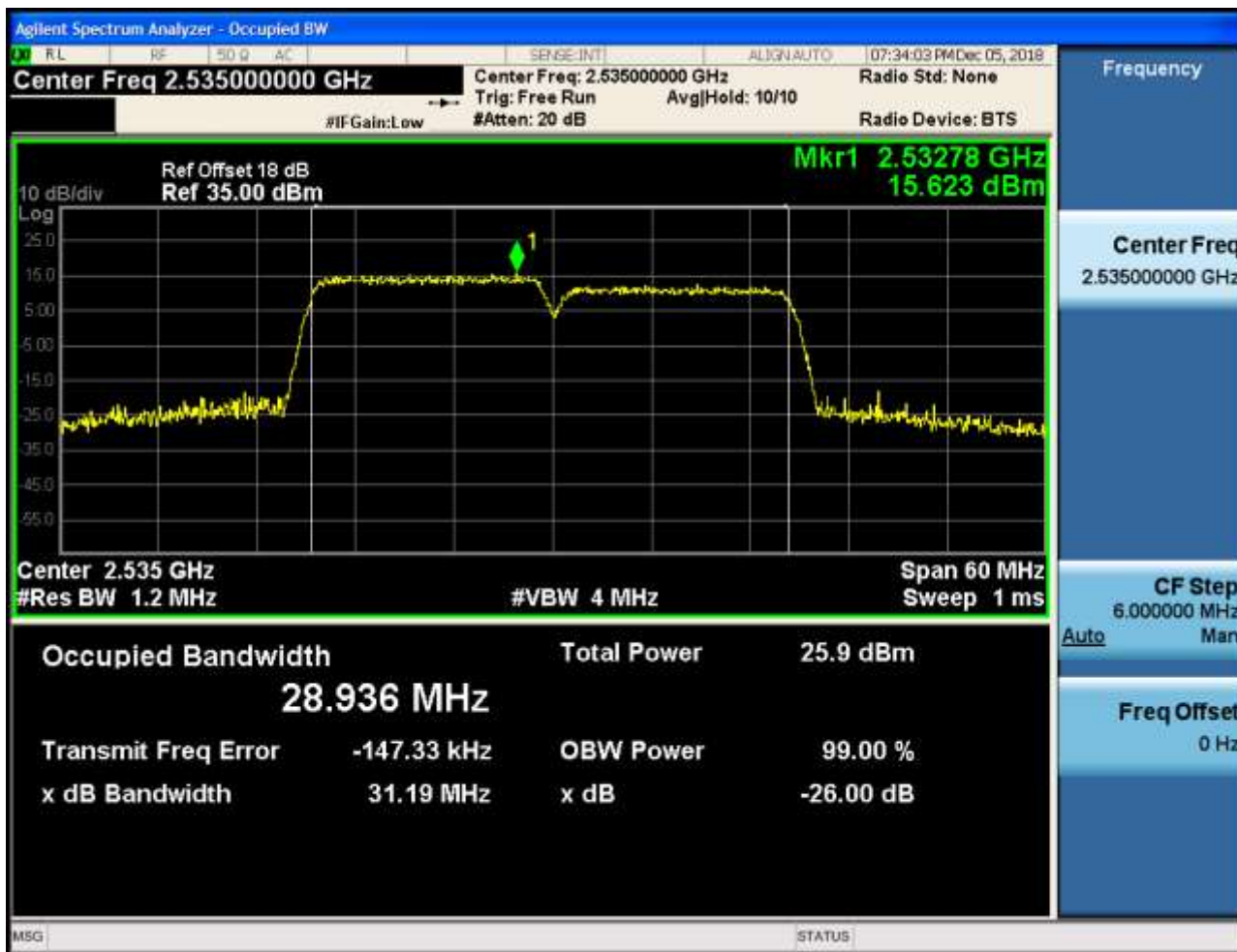
##### 4.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs





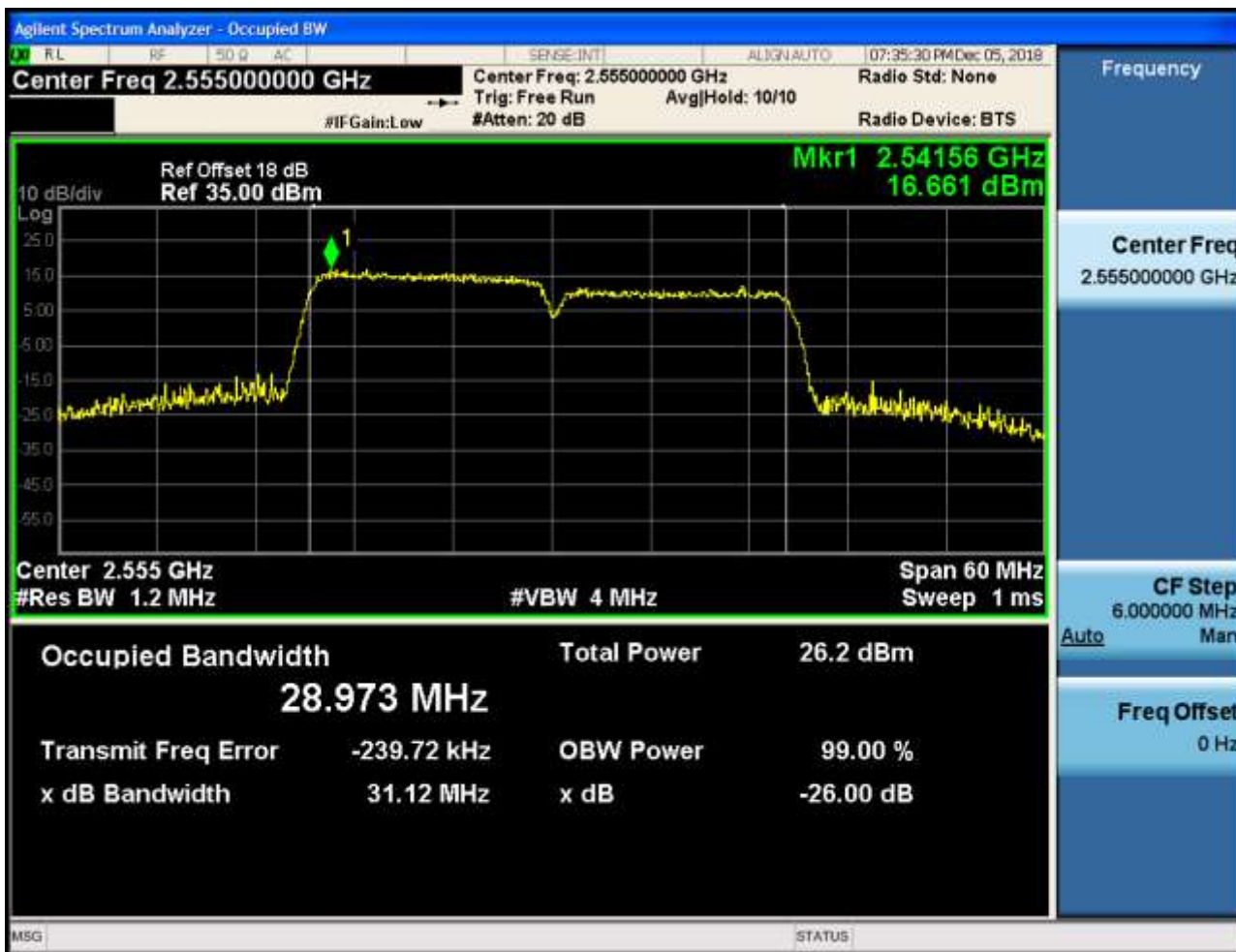
#### 4.1.1.1.1.2 Test Channel = MCH

##### 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

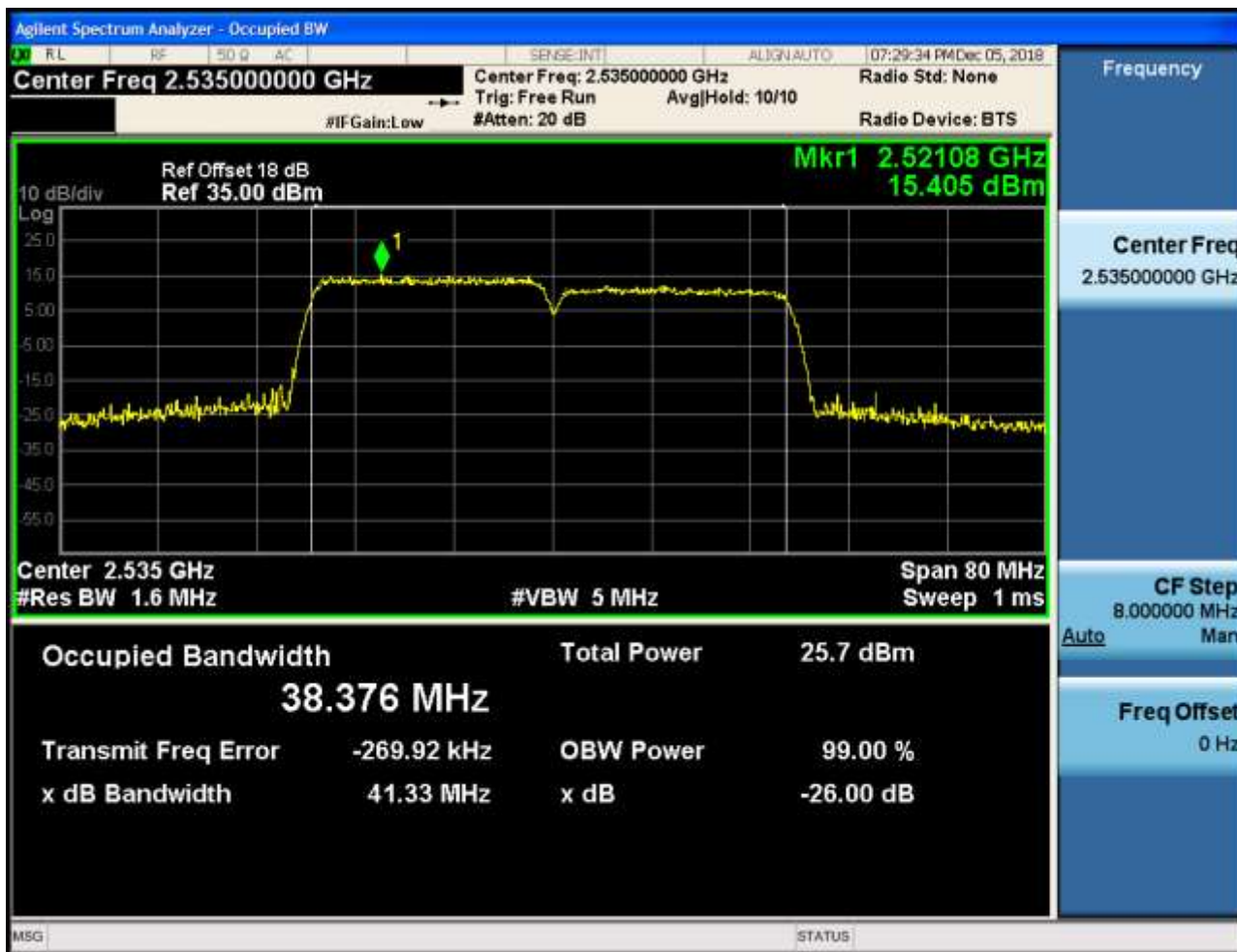
##### 4.1.1.1.2.1 Test Channel = LCH

##### 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\_7C

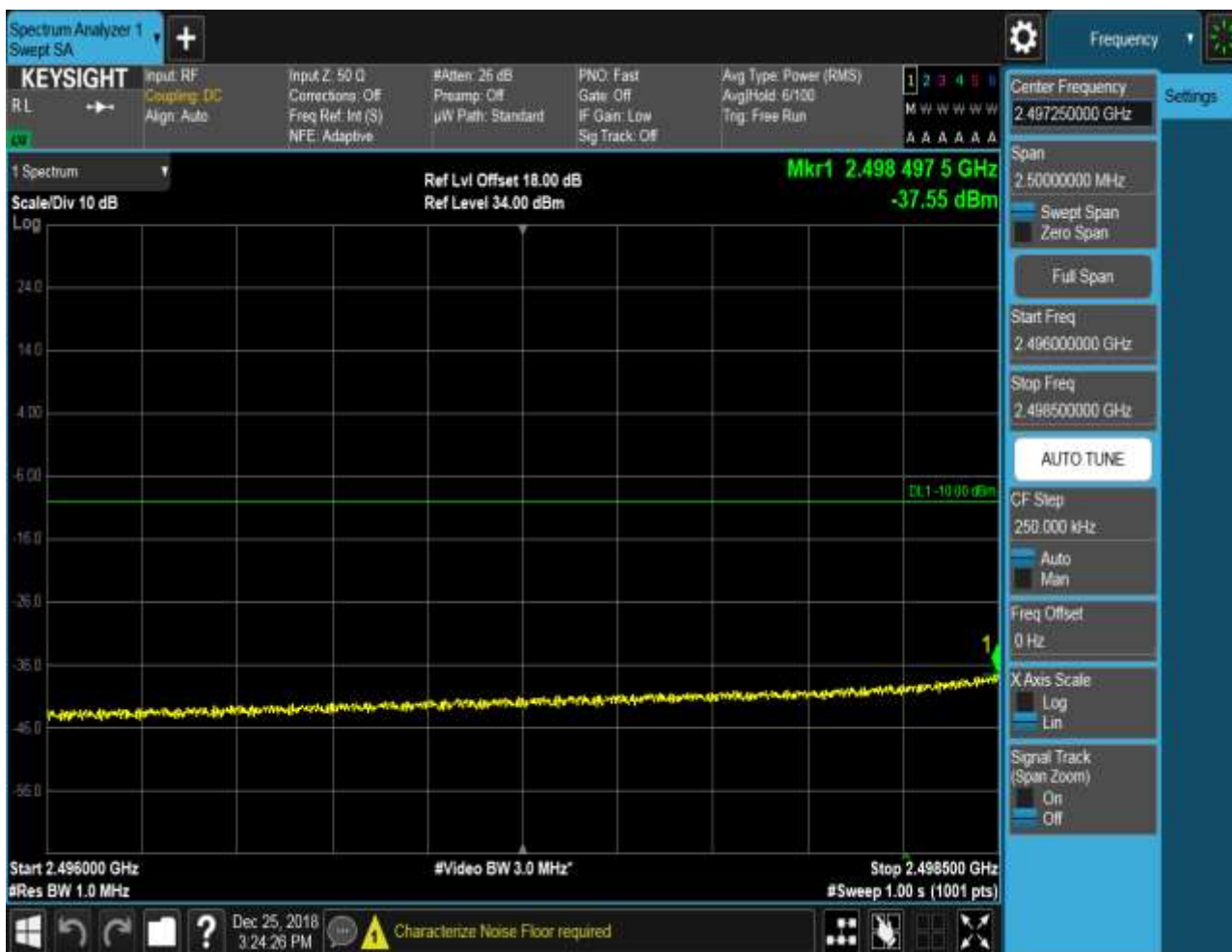
##### 5.1.1.1 Test Mode = LTE/TM1

##### 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

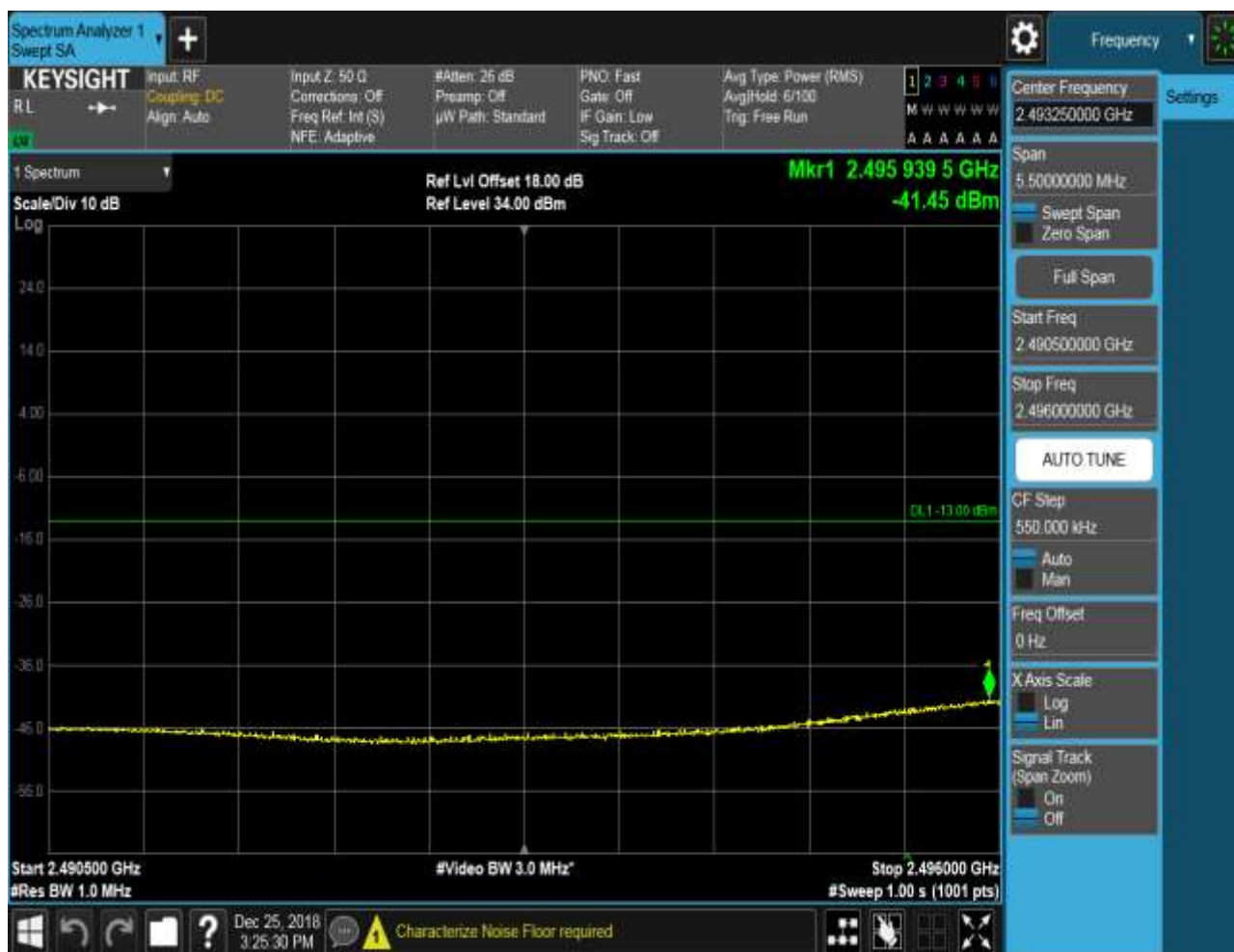








### 5.1.1.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0







### 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







### 5.1.1.1.2.2 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







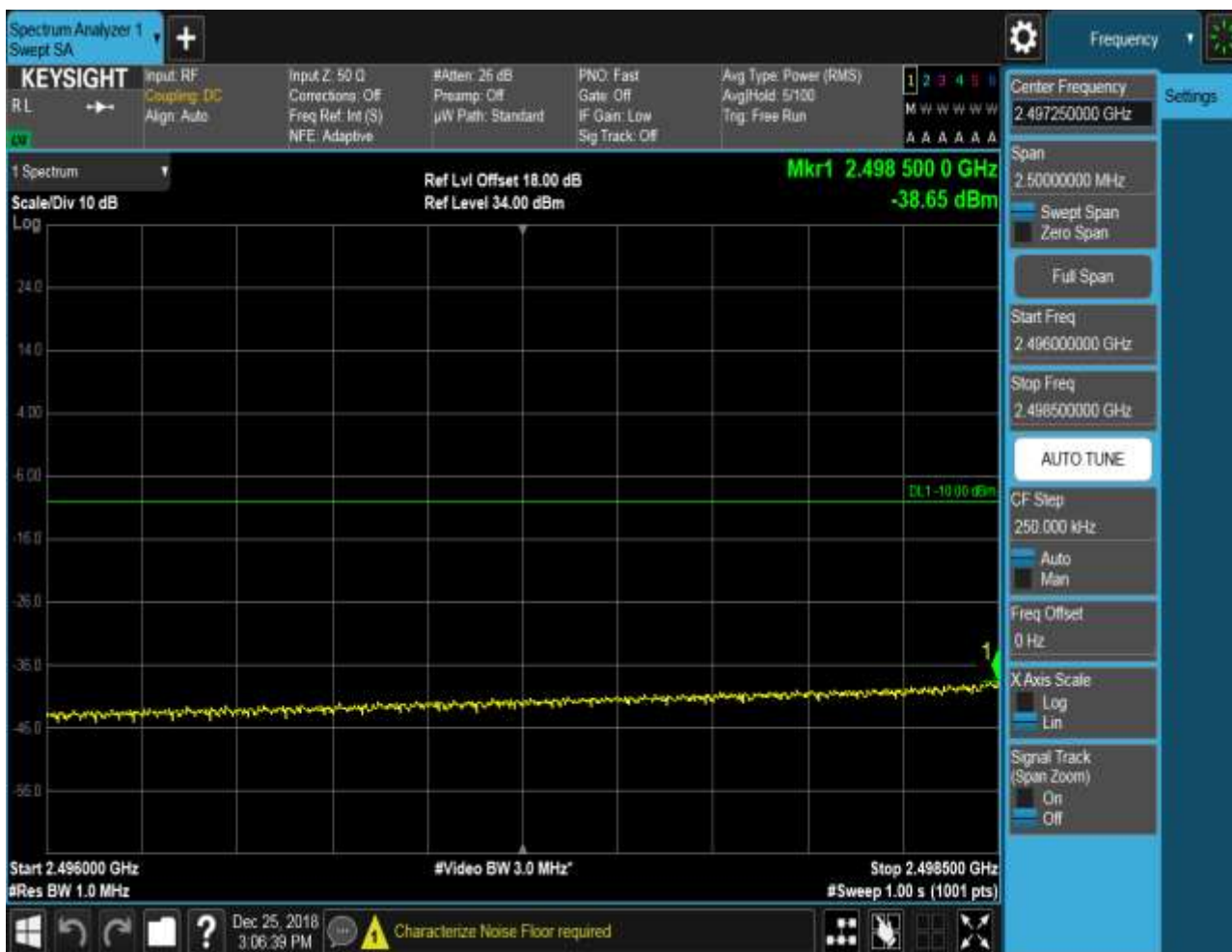
### 5.1.1.1.2 Test Bandwidth = 20+20

#### 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







### 5.1.1.1.2.2.2 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

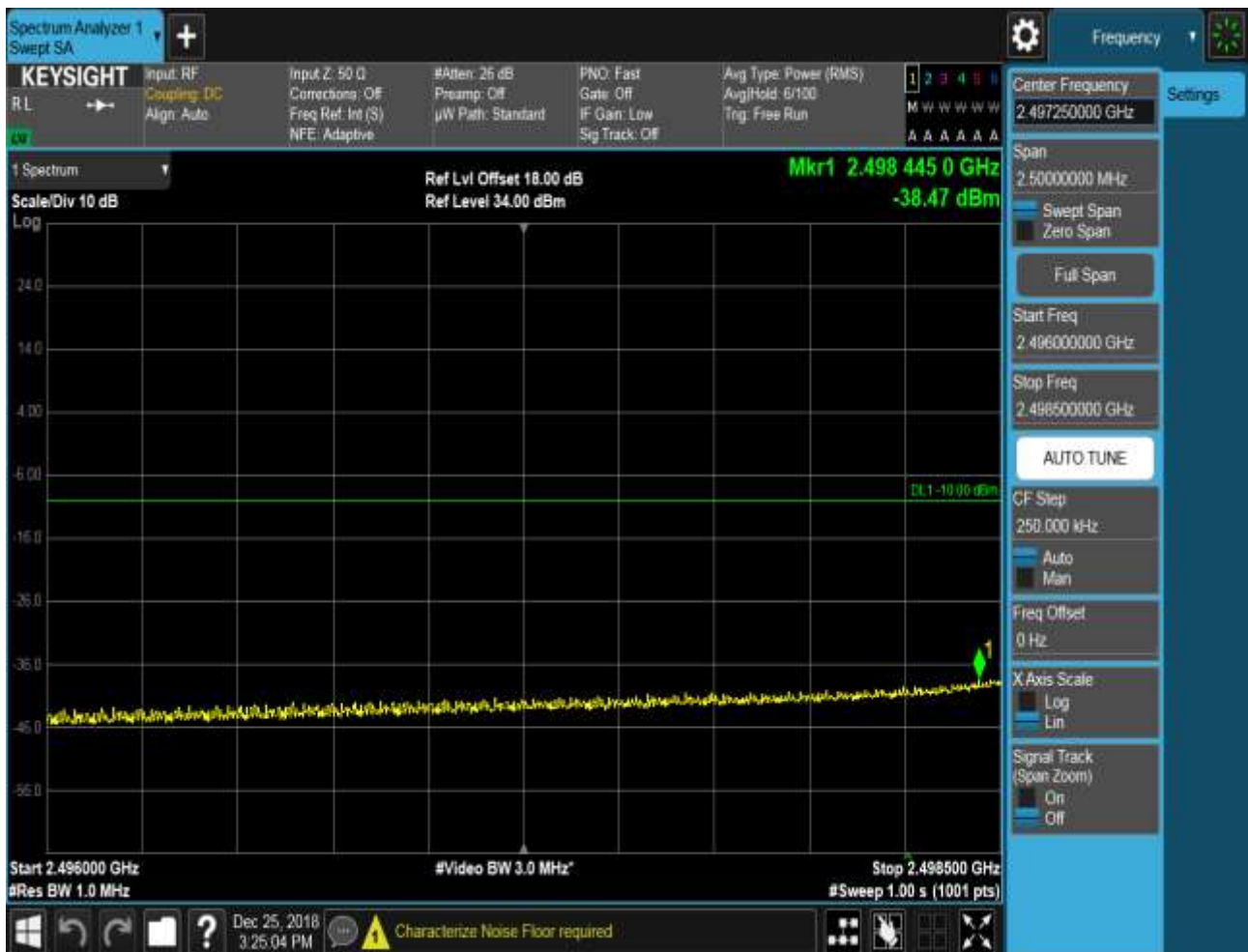
#### 5.1.1.2.1 Test Bandwidth = 15+15

##### 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





