



# 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]	EIRP[dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	23.26	22.96	33	PASS
				RB1#13	23.28	22.98	33	PASS
				RB1#24	23.24	22.94	33	PASS
				RB12#0	22.28	21.98	33	PASS
				RB12#6	22.21	21.91	33	PASS
				RB12#13	22.25	21.95	33	PASS
				RB25#0	22.24	21.94	33	PASS
			MCH	RB1#0	23.25	22.95	33	PASS
				RB1#13	23.26	22.96	33	PASS
				RB1#24	23.27	22.97	33	PASS
				RB12#0	22.28	21.98	33	PASS
				RB12#6	22.29	21.99	33	PASS
				RB12#13	22.28	21.98	33	PASS
				RB25#0	22.26	21.96	33	PASS
		HCH	RB1#0	23.21	22.91	33	PASS	
			RB1#13	23.24	22.94	33	PASS	
			RB1#24	23.24	22.94	33	PASS	
			RB12#0	22.2	21.9	33	PASS	
			RB12#6	22.2	21.9	33	PASS	
			RB12#13	22.28	21.98	33	PASS	
			RB25#0	22.18	21.88	33	PASS	
		10	LCH	RB1#0	23.14	22.84	33	PASS
				RB1#25	22.94	22.64	33	PASS
				RB1#49	23.27	22.97	33	PASS
				RB25#0	22.29	21.99	33	PASS
				RB25#13	22.27	21.97	33	PASS
				RB25#25	22.31	22.01	33	PASS
				RB50#0	22.29	21.99	33	PASS
MCH	RB1#0		23.25	22.95	33	PASS		
	RB1#25		23.18	22.88	33	PASS		



			RB1#49	23.26	22.96	33	PASS		
			RB25#0	22.3	22	33	PASS		
			RB25#13	22.29	21.99	33	PASS		
			RB25#25	22.24	21.94	33	PASS		
			RB50#0	22.3	22	33	PASS		
			HCH	RB1#0	23.11	22.81	33	PASS	
				RB1#25	23	22.7	33	PASS	
				RB1#49	23.16	22.86	33	PASS	
				RB25#0	22.17	21.87	33	PASS	
				RB25#13	22.17	21.87	33	PASS	
				RB25#25	22.24	21.94	33	PASS	
				RB50#0	22.14	21.84	33	PASS	
			15	LCH	RB1#0	23.18	22.88	33	PASS
					RB1#38	23.36	23.06	33	PASS
	RB1#74	23.2			22.9	33	PASS		
	RB38#0	22.35			22.05	33	PASS		
	RB38#19	22.32			22.02	33	PASS		
	RB38#39	22.38			22.08	33	PASS		
	RB75#0	22.24			21.94	33	PASS		
	MCH	RB1#0		23.18	22.88	33	PASS		
		RB1#38		23.32	23.02	33	PASS		
		RB1#74		23.2	22.9	33	PASS		
		RB38#0		22.25	21.95	33	PASS		
		RB38#19		22.28	21.98	33	PASS		
		RB38#39		22.34	22.04	33	PASS		
		RB75#0		22.24	21.94	33	PASS		
	HCH	RB1#0	23.04	22.74	33	PASS			
		RB1#38	23.18	22.88	33	PASS			
RB1#74		23.04	22.74	33	PASS				
RB38#0		22.23	21.93	33	PASS				
RB38#19		22.17	21.87	33	PASS				
RB38#39		22.22	21.92	33	PASS				
RB75#0		22.2	21.9	33	PASS				
20	LCH	RB1#0	23.26	22.96	33	PASS			
		RB1#50	22.96	22.66	33	PASS			
		RB1#99	23.34	23.04	33	PASS			
		RB50#0	22.23	21.93	33	PASS			
		RB50#25	22.35	22.05	33	PASS			
		RB50#50	22.3	22	33	PASS			
		RB100#0	22.27	21.97	33	PASS			
	MCH	RB1#0	23.25	22.95	33	PASS			



LTE/TM2				RB1#50	22.99	22.69	33	PASS	
				RB1#99	23.27	22.97	33	PASS	
				RB50#0	22.31	22.01	33	PASS	
				RB50#25	22.33	22.03	33	PASS	
				RB50#50	22.24	21.94	33	PASS	
				RB100#0	22.3	22	33	PASS	
			HCH	RB1#0	23.17	22.87	33	PASS	
				RB1#50	22.93	22.63	33	PASS	
				RB1#99	23.18	22.88	33	PASS	
				RB50#0	22.24	21.94	33	PASS	
				RB50#25	22.18	21.88	33	PASS	
				RB50#50	22.19	21.89	33	PASS	
			5	LCH	RB1#0	22.47	22.17	33	PASS
					RB1#13	22.52	22.22	33	PASS
	RB1#24	22.47			22.17	33	PASS		
	RB12#0	21.31			21.01	33	PASS		
	RB12#6	21.25			20.95	33	PASS		
	RB12#13	21.33			21.03	33	PASS		
	RB25#0	21.21			20.91	33	PASS		
	MCH	RB1#0		22.42	22.12	33	PASS		
		RB1#13		22.4	22.1	33	PASS		
		RB1#24		22.4	22.1	33	PASS		
		RB12#0		21.2	20.9	33	PASS		
		RB12#6		21.13	20.83	33	PASS		
		RB12#13		21.22	20.92	33	PASS		
		RB25#0		21.26	20.96	33	PASS		
	HCH	RB1#0	22.55	22.25	33	PASS			
		RB1#13	22.55	22.25	33	PASS			
RB1#24		22.56	22.26	33	PASS				
RB12#0		21.2	20.9	33	PASS				
RB12#6		21.18	20.88	33	PASS				
RB12#13		21.18	20.88	33	PASS				
RB25#0		21.14	20.84	33	PASS				
10	LCH	RB1#0	22.43	22.13	33	PASS			
		RB1#25	21.88	21.58	33	PASS			
		RB1#49	22.25	21.95	33	PASS			
		RB25#0	21.28	20.98	33	PASS			
		RB25#13	21.22	20.92	33	PASS			
		RB25#25	21.3	21	33	PASS			
		RB50#0	21.29	20.99	33	PASS			



			MCH	RB1#0	22.33	22.03	33	PASS
				RB1#25	21.43	21.13	33	PASS
				RB1#49	22.17	21.87	33	PASS
				RB25#0	21.24	20.94	33	PASS
				RB25#13	21.26	20.96	33	PASS
				RB25#25	21.21	20.91	33	PASS
				RB50#0	21.28	20.98	33	PASS
			HCH	RB1#0	22.47	22.17	33	PASS
				RB1#25	22.19	21.89	33	PASS
				RB1#49	22.52	22.22	33	PASS
				RB25#0	21.1	20.8	33	PASS
				RB25#13	21.21	20.91	33	PASS
				RB25#25	21.17	20.87	33	PASS
				RB50#0	21.16	20.86	33	PASS
	15	LCH	RB1#0	22.2	21.9	33	PASS	
			RB1#38	22.37	22.07	33	PASS	
			RB1#74	22.28	21.98	33	PASS	
			RB38#0	21.23	20.93	33	PASS	
			RB38#19	21.25	20.95	33	PASS	
			RB38#39	21.28	20.98	33	PASS	
			RB75#0	21.26	20.96	33	PASS	
		MCH	RB1#0	22.29	21.99	33	PASS	
			RB1#38	22.41	22.11	33	PASS	
			RB1#74	22.29	21.99	33	PASS	
			RB38#0	21.22	20.92	33	PASS	
			RB38#19	21.24	20.94	33	PASS	
			RB38#39	21.22	20.92	33	PASS	
			RB75#0	21.21	20.91	33	PASS	
HCH	RB1#0	22.38	22.08	33	PASS			
	RB1#38	22.47	22.17	33	PASS			
	RB1#74	22.36	22.06	33	PASS			
	RB38#0	21.15	20.85	33	PASS			
	RB38#19	21.13	20.83	33	PASS			
	RB38#39	21.09	20.79	33	PASS			
	RB75#0	21.11	20.81	33	PASS			
20	LCH	RB1#0	22.59	22.29	33	PASS		
		RB1#50	22.46	22.16	33	PASS		
		RB1#99	22.64	22.34	33	PASS		
		RB50#0	21.19	20.89	33	PASS		
		RB50#25	21.29	20.99	33	PASS		
		RB50#50	21.19	20.89	33	PASS		



			RB100#0	21.2	20.9	33	PASS
		MCH	RB1#0	22.52	22.22	33	PASS
			RB1#50	22.3	22	33	PASS
			RB1#99	22.53	22.23	33	PASS
			RB50#0	21.22	20.92	33	PASS
			RB50#25	21.17	20.87	33	PASS
			RB50#50	21.25	20.95	33	PASS
			RB100#0	21.24	20.94	33	PASS
		HCH	RB1#0	22.42	22.12	33	PASS
			RB1#50	22.19	21.89	33	PASS
			RB1#99	22.41	22.11	33	PASS
			RB50#0	21.13	20.83	33	PASS
			RB50#25	21.1	20.8	33	PASS
			RB50#50	21.09	20.79	33	PASS
			RB100#0	21.1	20.8	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:

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

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

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

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
BAND7	LTE/TM1	5	LCH	RB1#0	3.99	13	PASS
				RB1#13	4.17	13	PASS
				RB1#24	4.28	13	PASS
				RB12#0	5.07	13	PASS
				RB12#6	5.13	13	PASS
				RB12#13	5.32	13	PASS
				RB25#0	5.61	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#13	4.21	13	PASS
				RB1#24	4.27	13	PASS
				RB12#0	5.43	13	PASS
				RB12#6	5.29	13	PASS
				RB12#13	5.39	13	PASS
				RB25#0	5.81	13	PASS
		HCH	RB1#0	4.3	13	PASS	
			RB1#13	3.84	13	PASS	
			RB1#24	3.74	13	PASS	
			RB12#0	5.18	13	PASS	
			RB12#6	5.02	13	PASS	
			RB12#13	5.01	13	PASS	
			RB25#0	5.48	13	PASS	
		10	LCH	RB1#0	4.1	13	PASS
				RB1#25	4.51	13	PASS
				RB1#49	4.31	13	PASS
				RB25#0	5.41	13	PASS
				RB25#13	5.35	13	PASS
				RB25#25	5.51	13	PASS
				RB50#0	5.85	13	PASS
MCH	RB1#0		3.99	13	PASS		



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict	
				RB1#25	4.17	13	PASS	
				RB1#49	4.46	13	PASS	
				RB25#0	5.43	13	PASS	
				RB25#13	5.39	13	PASS	
				RB25#25	5.54	13	PASS	
				RB50#0	5.88	13	PASS	
			HCH	RB1#0	4.47	13	PASS	
				RB1#25	4.36	13	PASS	
				RB1#49	3.87	13	PASS	
				RB25#0	5.49	13	PASS	
				RB25#13	5.41	13	PASS	
				RB25#25	5.42	13	PASS	
				LCH	RB1#0	3.99	13	PASS
					RB1#38	4.2	13	PASS
		RB1#74			4.35	13	PASS	
		RB38#0			5.67	13	PASS	
		RB38#19			5.53	13	PASS	
		RB38#39			5.72	13	PASS	
		RB75#0		6.1	13	PASS		
		MCH		RB1#0	4.56	13	PASS	
				RB1#38	4.5	13	PASS	
				RB1#74	4.62	13	PASS	
				RB38#0	5.61	13	PASS	
				RB38#19	5.49	13	PASS	
				RB38#39	5.75	13	PASS	
		RB75#0		6.03	13	PASS		
		HCH	RB1#0	4.33	13	PASS		
			RB1#38	4.09	13	PASS		
			RB1#74	3.83	13	PASS		
			RB38#0	5.76	13	PASS		
			RB38#19	5.54	13	PASS		
			RB38#39	5.57	13	PASS		
RB75#0	5.95	13	PASS					
20	LCH	RB1#0	4.21	13	PASS			
		RB1#50	4.64	13	PASS			
		RB1#99	4.56	13	PASS			
		RB50#0	5.57	13	PASS			





Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict			
				RB50#25	5.45	13	PASS			
				RB50#50	5.72	13	PASS			
				RB100#0	6.08	13	PASS			
			MCH	RB1#0	4.28	13	PASS			
				RB1#50	4.28	13	PASS			
				RB1#99	4.34	13	PASS			
				RB50#0	5.61	13	PASS			
				RB50#25	5.52	13	PASS			
				RB50#50	5.71	13	PASS			
				RB100#0	5.94	13	PASS			
				HCH	RB1#0	4.44	13	PASS		
					RB1#50	4.4	13	PASS		
			RB1#99		3.96	13	PASS			
			RB50#0		5.66	13	PASS			
			RB50#25		5.54	13	PASS			
			RB50#50		5.49	13	PASS			
						LCH	RB1#0	5.03	13	PASS
							RB1#13	5.18	13	PASS
	RB1#24	5.31					13	PASS		
	RB12#0	6.02					13	PASS		
	RB12#6	6.1					13	PASS		
	RB12#13	6.16					13	PASS		
	MCH	RB25#0				6.52	13	PASS		
		RB1#0				4.99	13	PASS		
		RB1#13				4.94	13	PASS		
		RB1#24				5.01	13	PASS		
		RB12#0				6.26	13	PASS		
		RB12#6				6.23	13	PASS		
	HCH	RB12#13	6.35	13	PASS					
		RB25#0	6.74	13	PASS					
RB1#0		4.77	13	PASS						
RB1#13		4.57	13	PASS						
RB1#24		4.33	13	PASS						
RB12#0		5.84	13	PASS						
				RB12#6	5.74	13	PASS			
				RB12#13	5.77	13	PASS			
				RB25#0	6.53	13	PASS			



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	5.14	13	PASS
				RB1#25	5.37	13	PASS
				RB1#49	5.5	13	PASS
				RB25#0	6.18	13	PASS
				RB25#13	6.15	13	PASS
				RB25#25	6.38	13	PASS
				RB50#0	6.63	13	PASS
			MCH	RB1#0	5.03	13	PASS
				RB1#25	5.2	13	PASS
				RB1#49	5.2	13	PASS
				RB25#0	6.51	13	PASS
				RB25#13	6.36	13	PASS
				RB25#25	6.5	13	PASS
				RB50#0	6.77	13	PASS
			HCH	RB1#0	5.34	13	PASS
				RB1#25	5.01	13	PASS
				RB1#49	4.86	13	PASS
				RB25#0	6.46	13	PASS
		RB25#13		6.31	13	PASS	
		RB25#25		6.31	13	PASS	
		RB50#0		6.59	13	PASS	
		15	LCH	RB1#0	5.08	13	PASS
				RB1#38	5.32	13	PASS
				RB1#74	5.34	13	PASS
RB38#0	6.56			13	PASS		
RB38#19	6.45			13	PASS		
RB38#39	6.67			13	PASS		
RB75#0	6.82			13	PASS		
MCH	RB1#0		5.46	13	PASS		
	RB1#38		5.23	13	PASS		
	RB1#74		5.5	13	PASS		
	RB38#0		6.47	13	PASS		
	RB38#19		6.42	13	PASS		
	RB38#39	6.56	13	PASS			
HCH	RB1#0	5.3	13	PASS			
	RB1#38	5.1	13	PASS			
	RB1#74	4.84	13	PASS			



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict			
				RB38#0	6.51	13	PASS			
				RB38#19	6.36	13	PASS			
				RB38#39	6.34	13	PASS			
				RB75#0	6.79	13	PASS			
		20	LCH		RB1#0	4.91	13	PASS		
					RB1#50	5.12	13	PASS		
					RB1#99	5.24	13	PASS		
					RB50#0	6.55	13	PASS		
					RB50#25	6.42	13	PASS		
					RB50#50	6.66	13	PASS		
					RB100#0	6.88	13	PASS		
					MCH		RB1#0	5.08	13	PASS
							RB1#50	5.08	13	PASS
							RB1#99	5.09	13	PASS
			RB50#0	6.73			13	PASS		
			RB50#25	6.55			13	PASS		
			RB50#50	6.83			13	PASS		
			RB100#0	6.85			13	PASS		
			HCH		RB1#0	5.08	13	PASS		
					RB1#50	5.03	13	PASS		
					RB1#99	4.6	13	PASS		
					RB50#0	6.47	13	PASS		
					RB50#25	6.29	13	PASS		
					RB50#50	6.38	13	PASS		
		RB100#0			6.9	13	PASS			

## 3Appendix\_C: Modulation Characteristics

### Part I - Test Plots

#### 3.1 For LTE

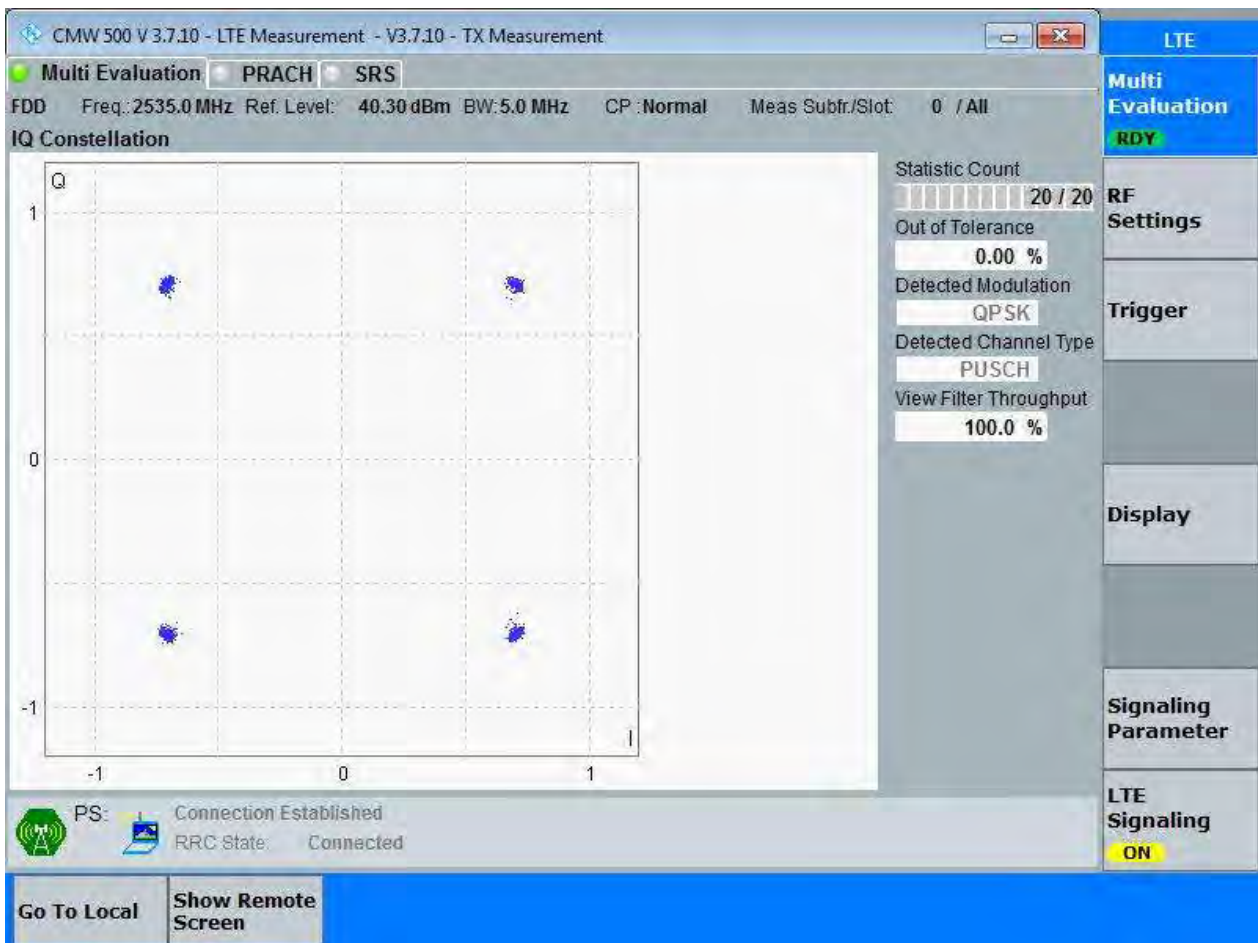
##### 3.1.1 Test Band = BAND7

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

##### 3.1.1.1.1 Test Bandwidth = 5

##### 3.1.1.1.1.1 Test Channel = MCH

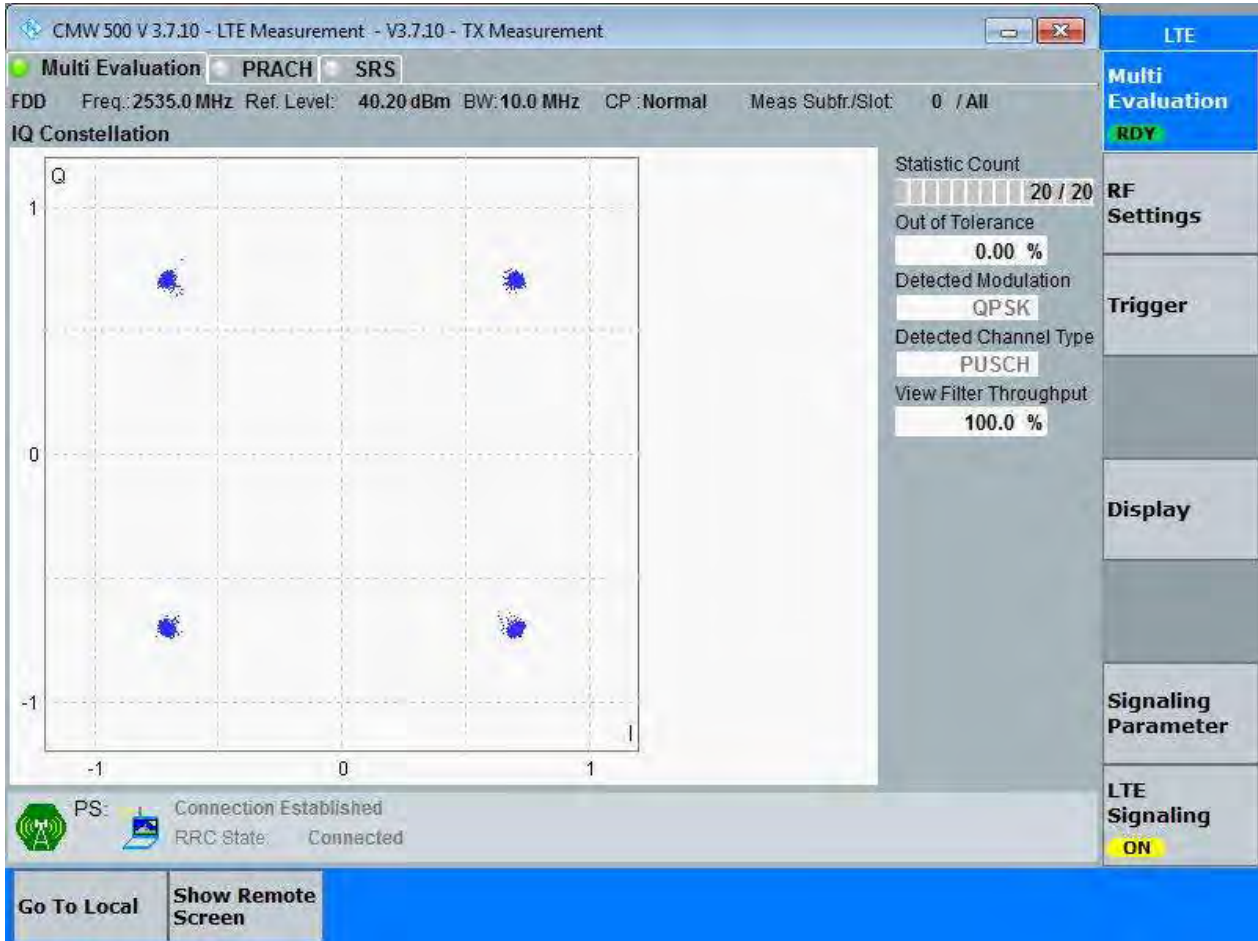
##### 3.1.1.1.1.1.1 Test RB = RB25#0



### 3.1.1.1.2 Test Bandwidth = 10

#### 3.1.1.1.2.1 Test Channel = MCH

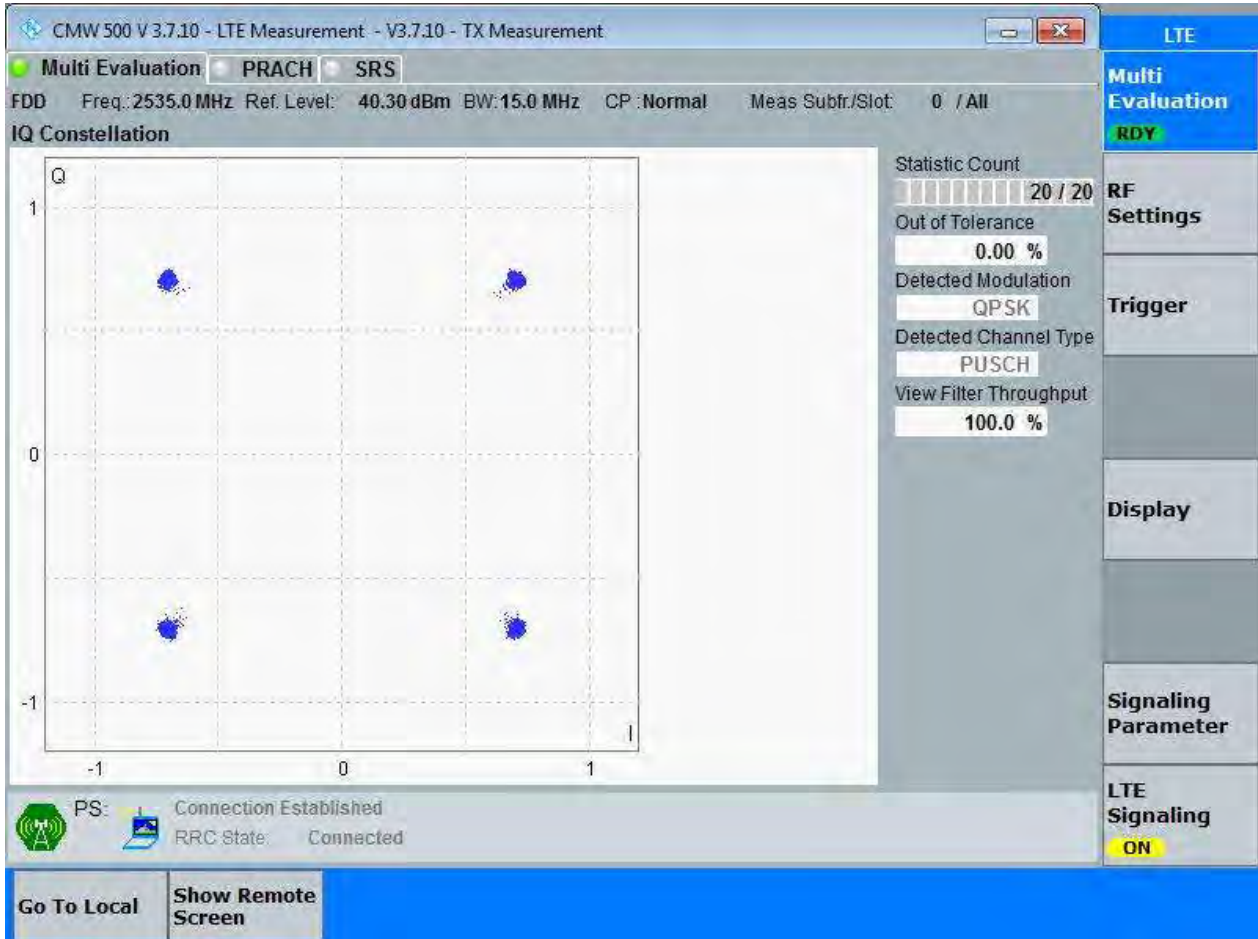
##### 3.1.1.1.2.1.1 Test RB = RB50#0



### 3.1.1.1.3 Test Bandwidth = 15

#### 3.1.1.1.3.1 Test Channel = MCH

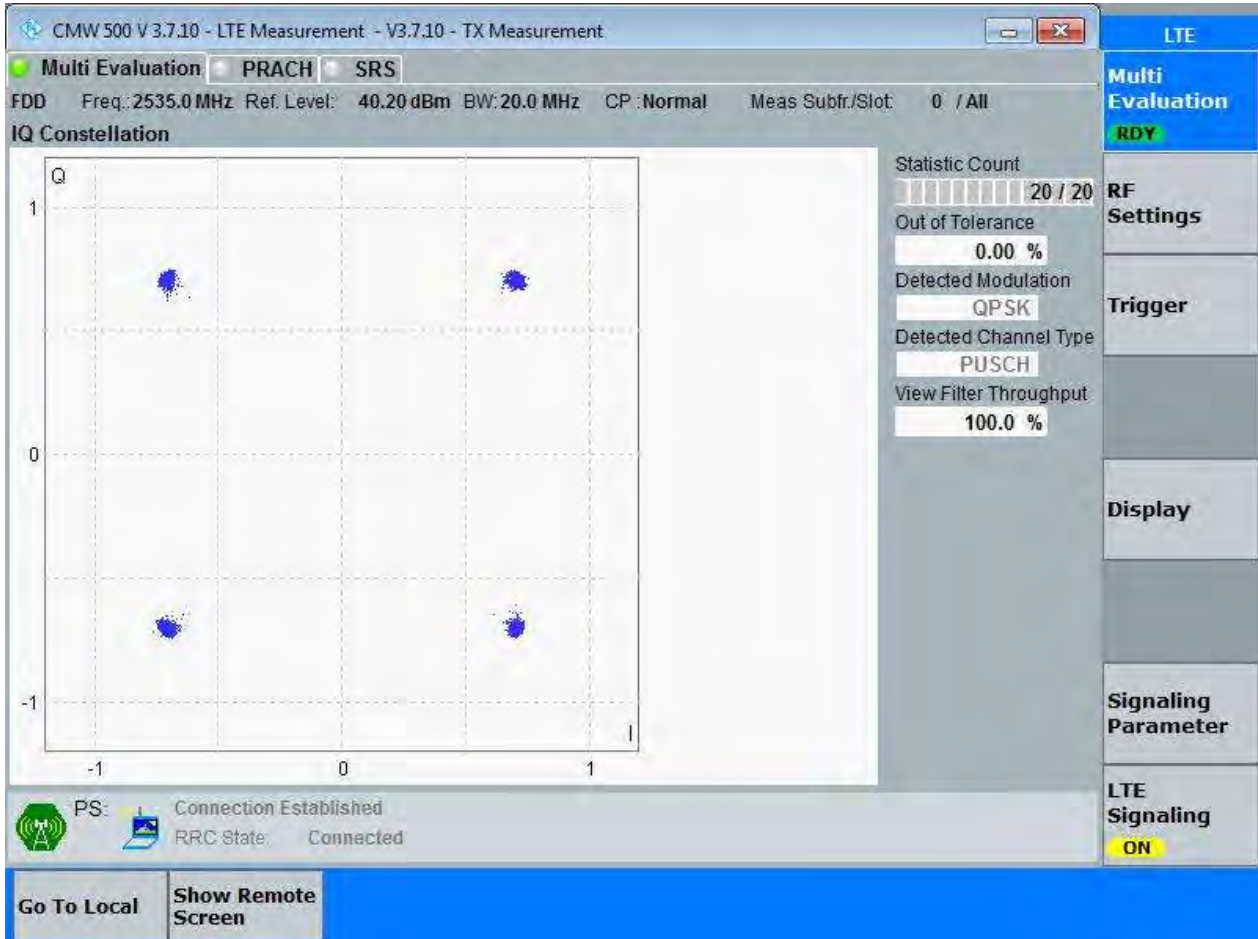
##### 3.1.1.1.3.1.1 Test RB = RB75#0



### 3.1.1.1.4 Test Bandwidth = 20

#### 3.1.1.1.4.1 Test Channel = MCH

##### 3.1.1.1.4.1.1 Test RB = RB100#0

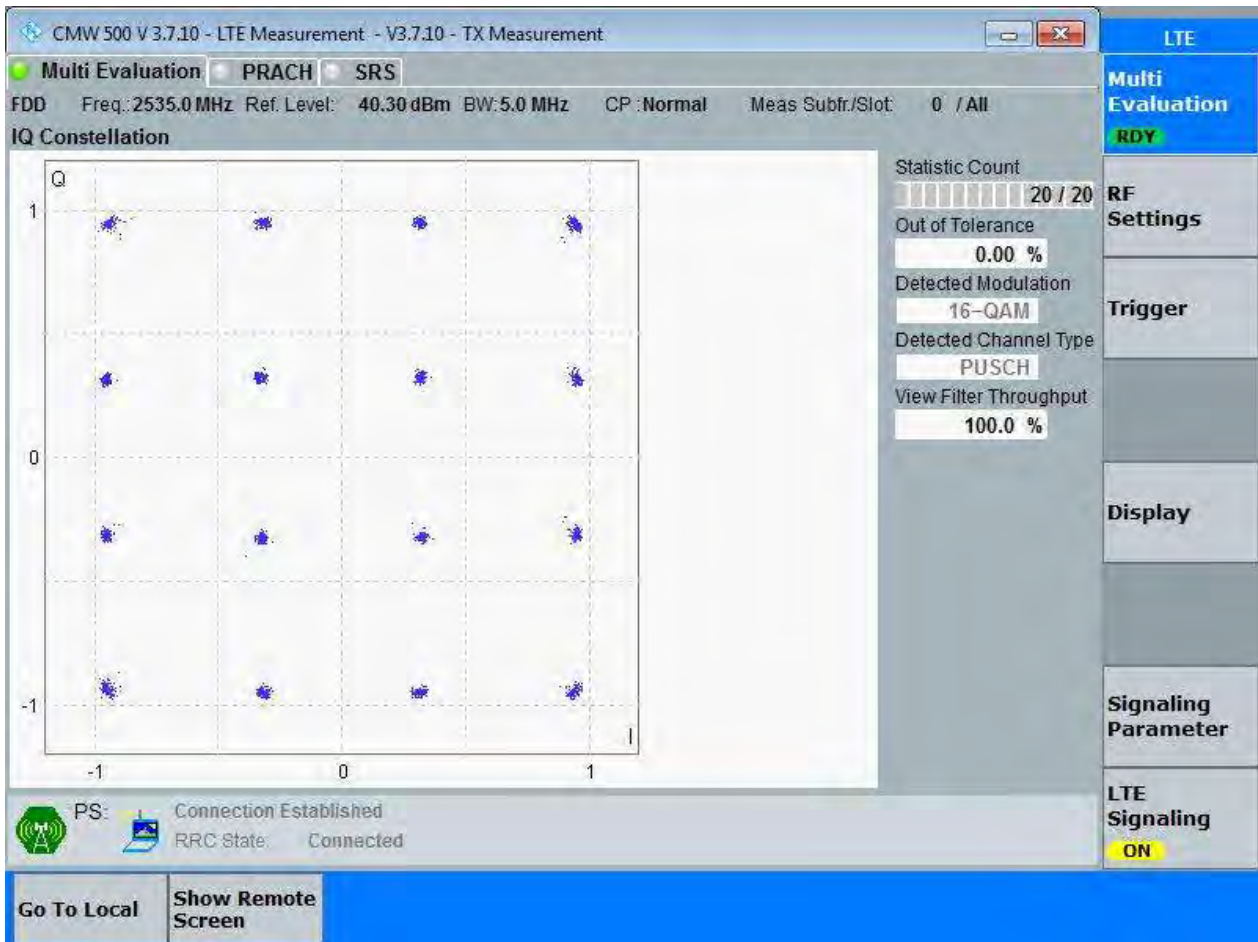


### 3.1.1.2 Test Mode = LTE/TM2

#### 3.1.1.2.1 Test Bandwidth = 5

##### 3.1.1.2.1.1 Test Channel = MCH

###### 3.1.1.2.1.1.1 Test RB = RB25#0

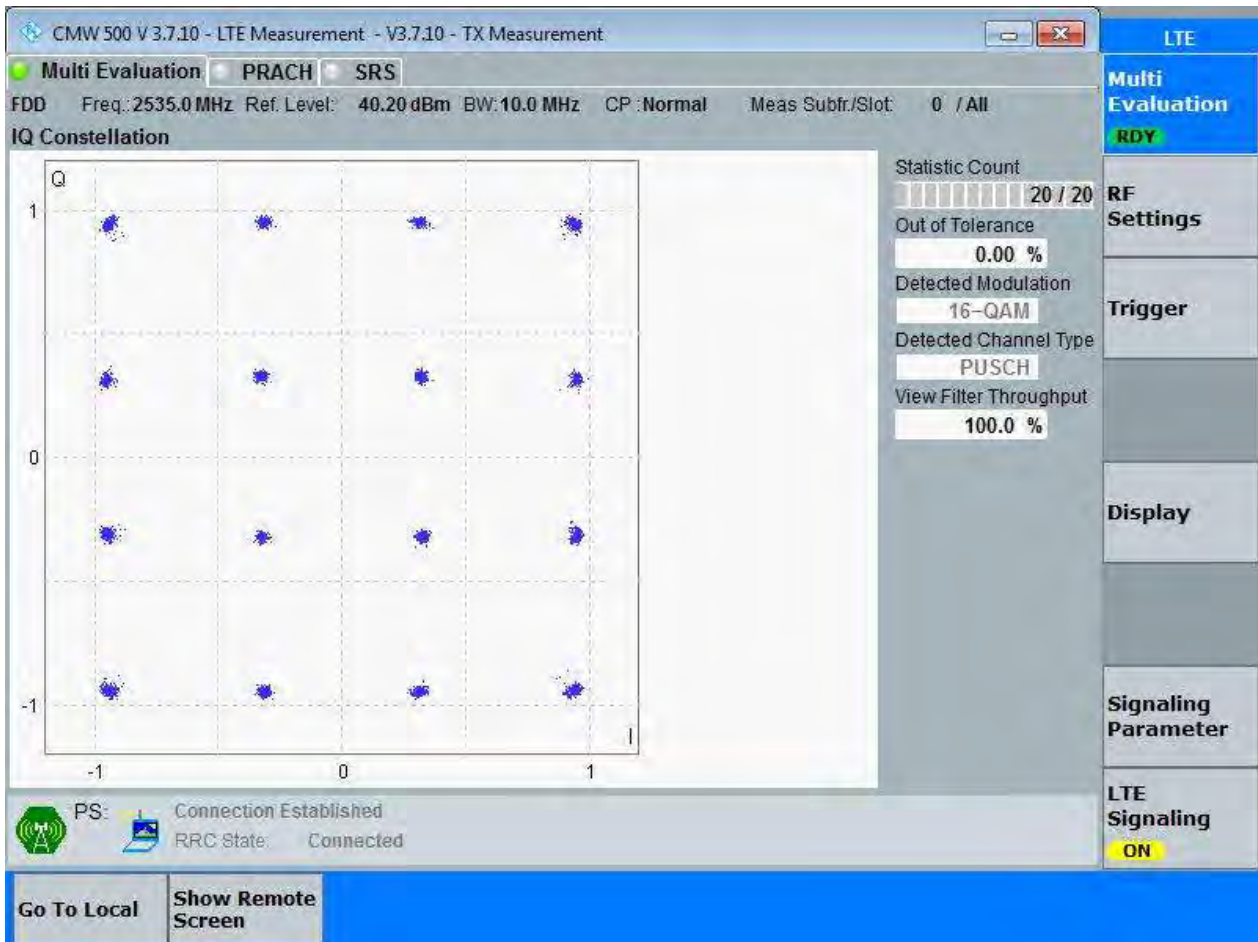




### 3.1.1.2.2 Test Bandwidth = 10

#### 3.1.1.2.2.1 Test Channel = MCH

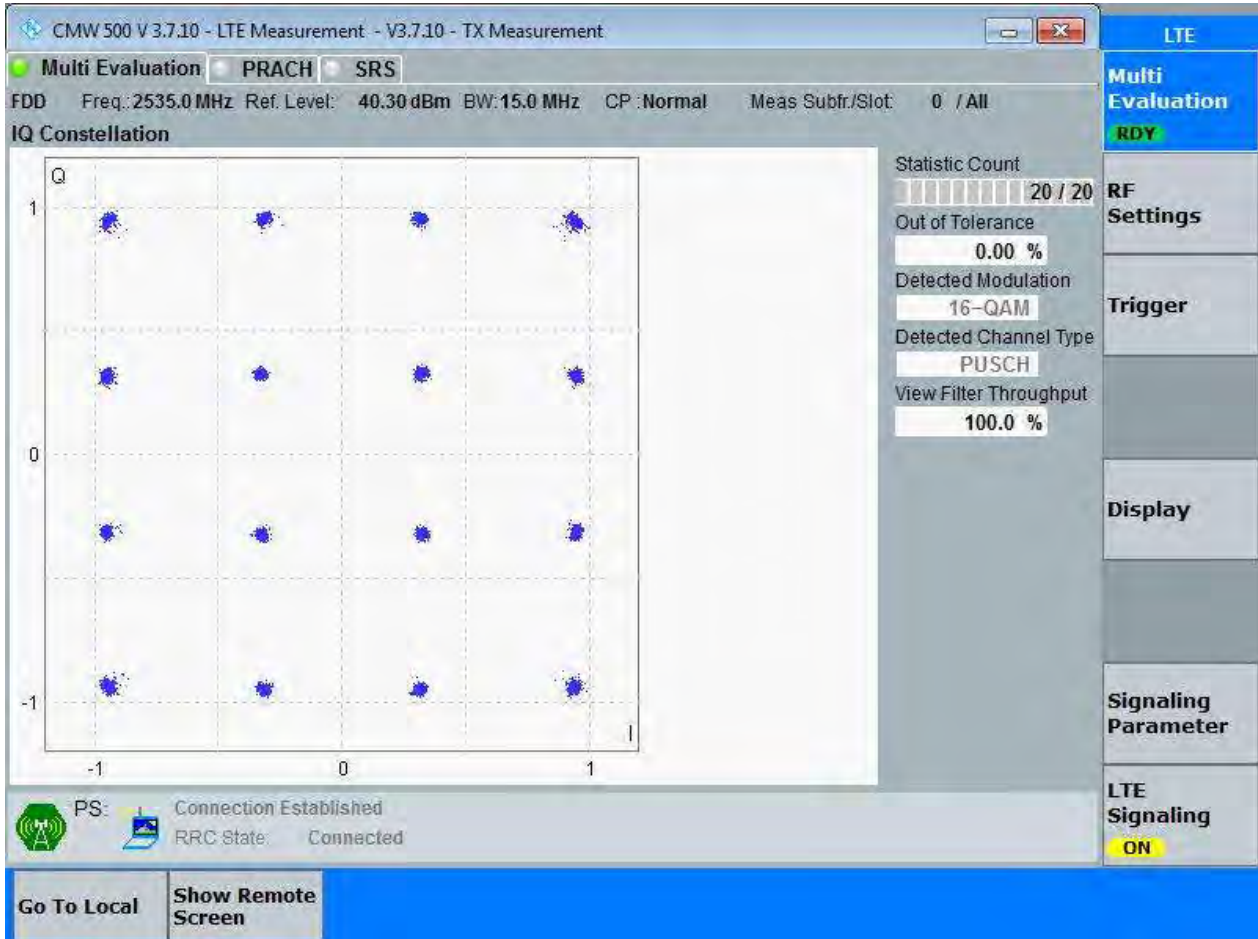
##### 3.1.1.2.2.1.1 Test RB = RB50#0



### 3.1.1.2.3 Test Bandwidth = 15

#### 3.1.1.2.3.1 Test Channel = MCH

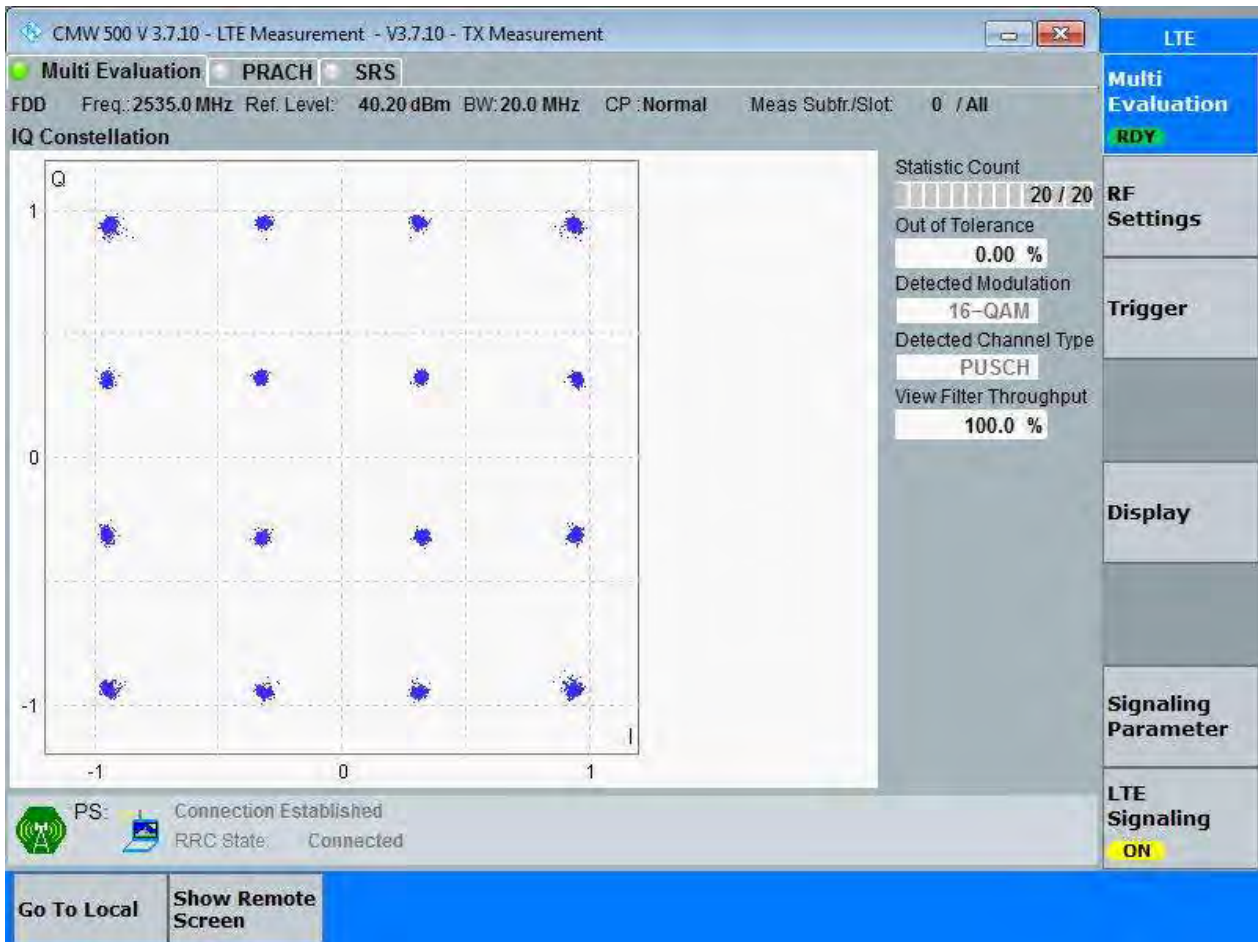
##### 3.1.1.2.3.1.1 Test RB = RB75#0



### 3.1.1.2.4 Test Bandwidth = 20

#### 3.1.1.2.4.1 Test Channel = MCH

##### 3.1.1.2.4.1.1 Test RB = RB100#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
BAND7	LTE/TM1	5	LCH	RB25#0	4.52	4.98	Pass
			MCH	RB25#0	4.52	4.96	Pass
			HCH	RB25#0	4.52	4.98	Pass
		10	LCH	RB50#0	9.00	9.96	Pass
			MCH	RB50#0	9.00	9.89	Pass
			HCH	RB50#0	8.99	9.91	Pass
		15	LCH	RB75#0	13.52	15.02	Pass
			MCH	RB75#0	13.49	14.94	Pass
			HCH	RB75#0	13.53	15.06	Pass
		20	LCH	RB100#0	18.06	19.82	Pass
			MCH	RB100#0	17.96	19.79	Pass
			HCH	RB100#0	18.03	19.81	Pass
	LTE/TM2	5	LCH	RB25#0	4.52	4.98	Pass
			MCH	RB25#0	4.53	4.96	Pass
			HCH	RB25#0	4.52	5.15	Pass
		10	LCH	RB50#0	9.02	9.95	Pass
			MCH	RB50#0	9.02	10.02	Pass
			HCH	RB50#0	9.00	9.95	Pass
		15	LCH	RB75#0	13.50	14.96	Pass
			MCH	RB75#0	13.50	14.98	Pass
			HCH	RB75#0	13.55	15.02	Pass
		20	LCH	RB100#0	18.04	19.87	Pass
			MCH	RB100#0	17.98	19.87	Pass
			HCH	RB100#0	18.01	19.78	Pass

## Part II - Test Plots

### 4.1 For LTE

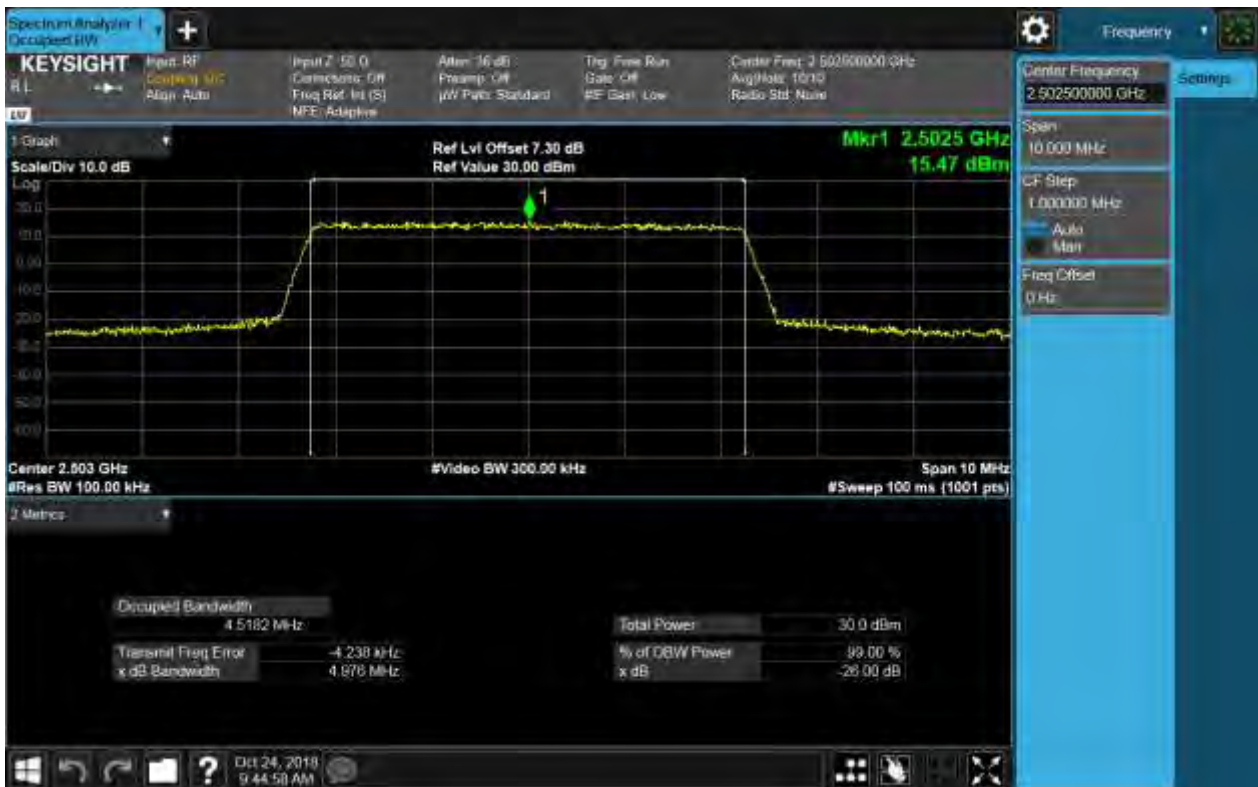
#### 4.1.1 Test Band = BAND7

##### 4.1.1.1 Test Mode = LTE/TM1

##### 4.1.1.1.1 Test Bandwidth = 5

##### 4.1.1.1.1.1 Test Channel = LCH

##### 4.1.1.1.1.1.1 Test RB = RB25#0



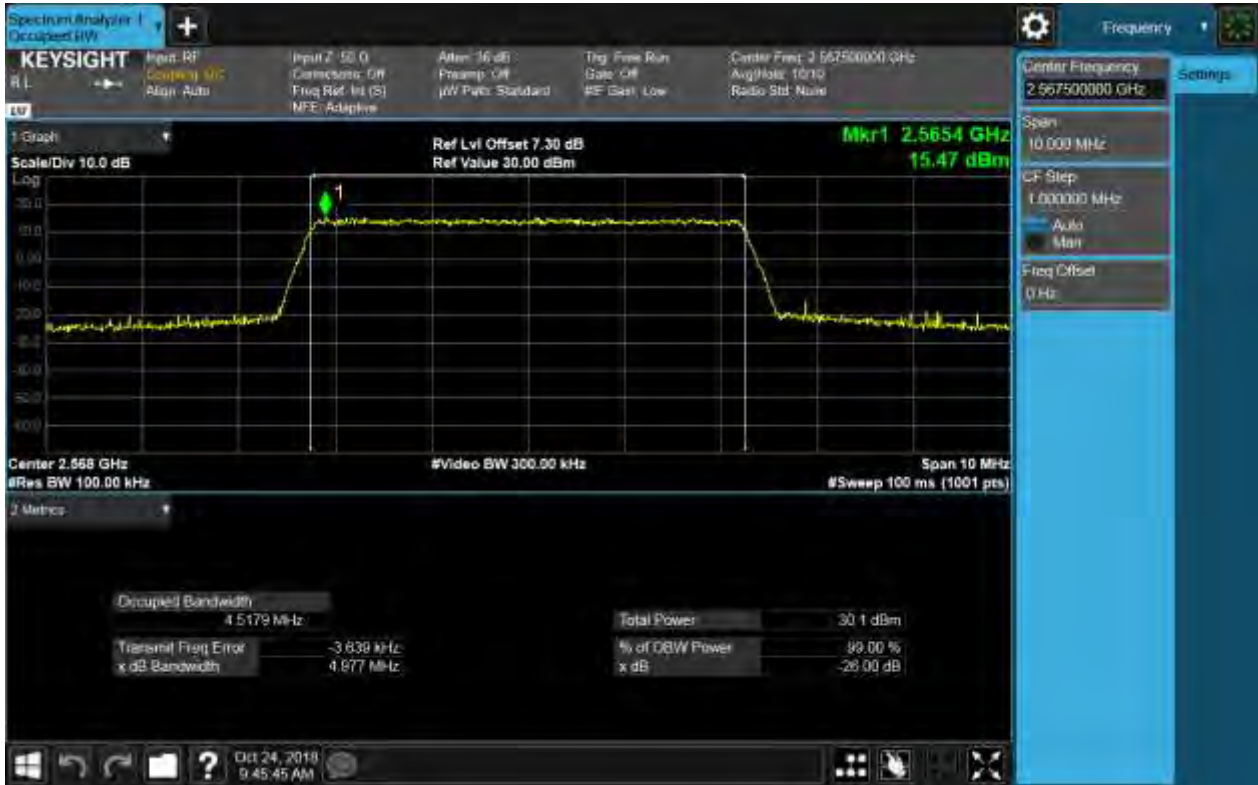
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



#### 4.1.1.1.1.3 Test Channel = HCH

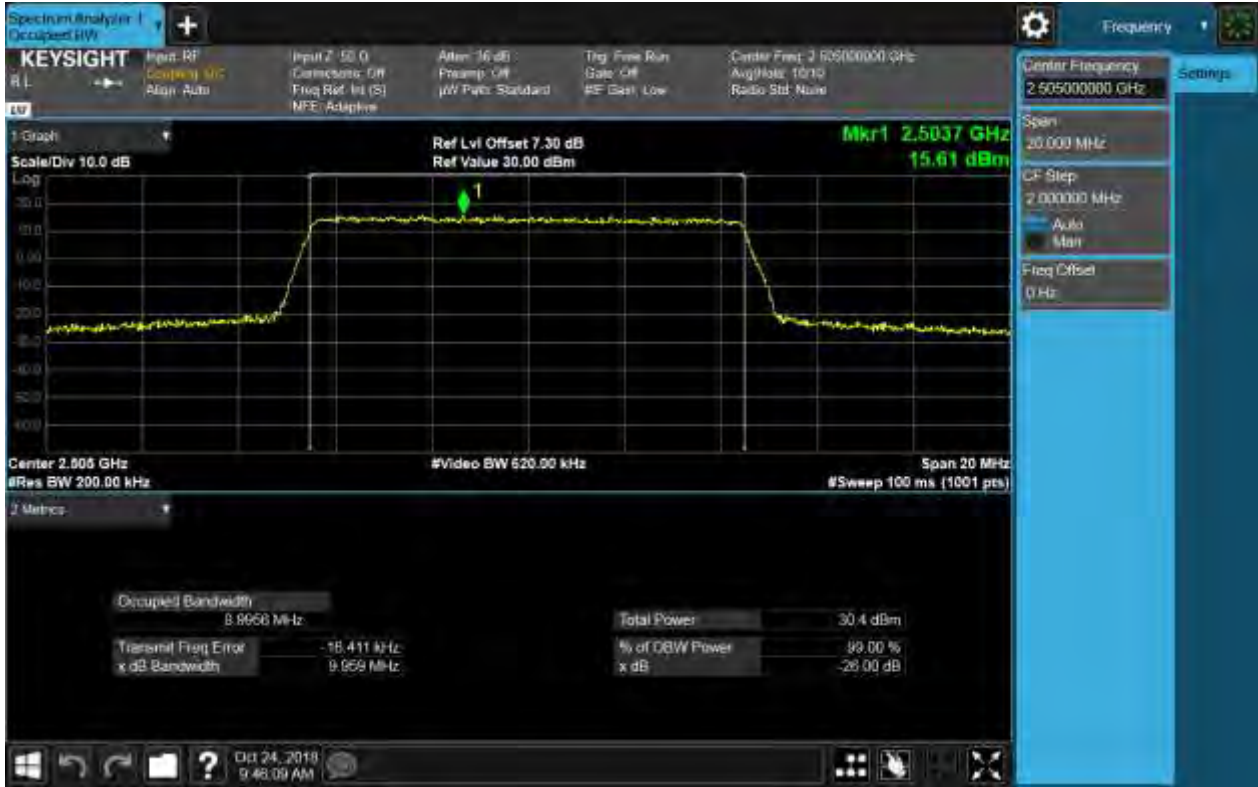
##### 4.1.1.1.1.3.1 Test RB = RB25#0



#### 4.1.1.1.2 Test Bandwidth = 10

##### 4.1.1.1.2.1 Test Channel = LCH

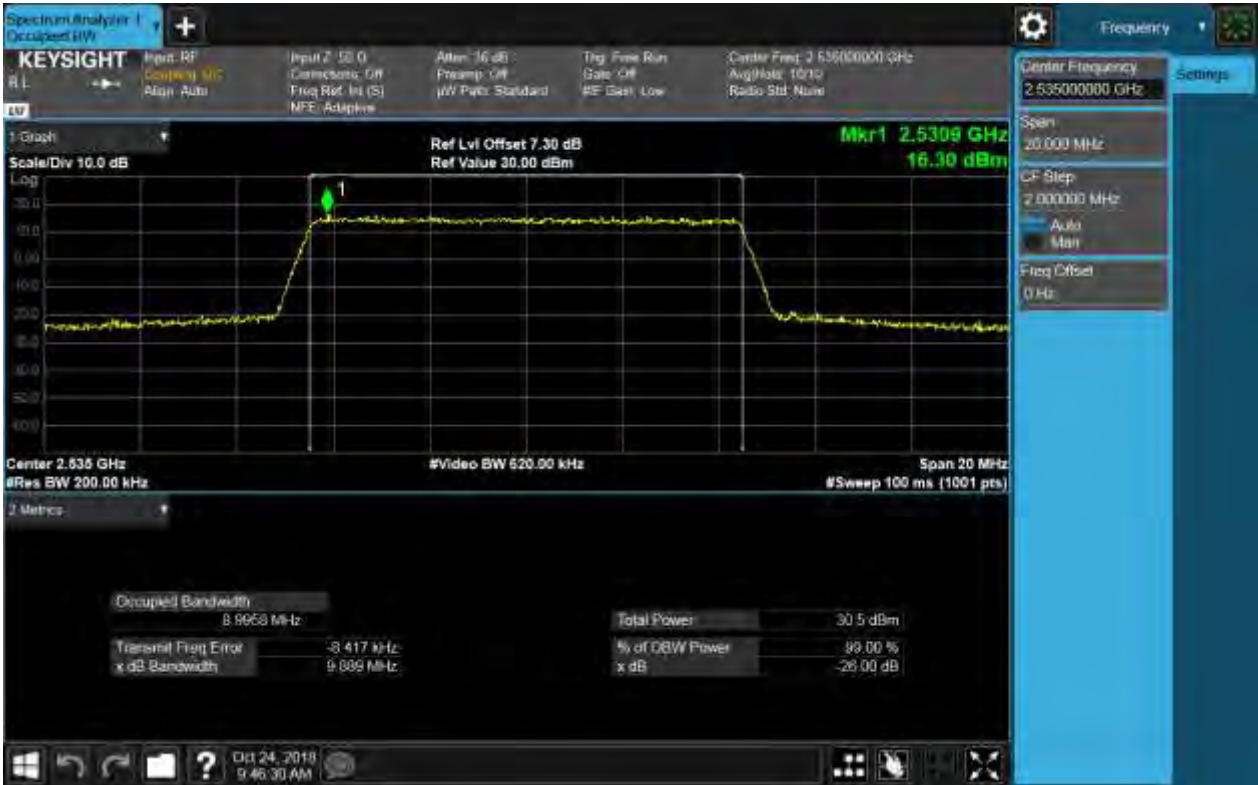
##### 4.1.1.1.2.1.1 Test RB = RB50#0





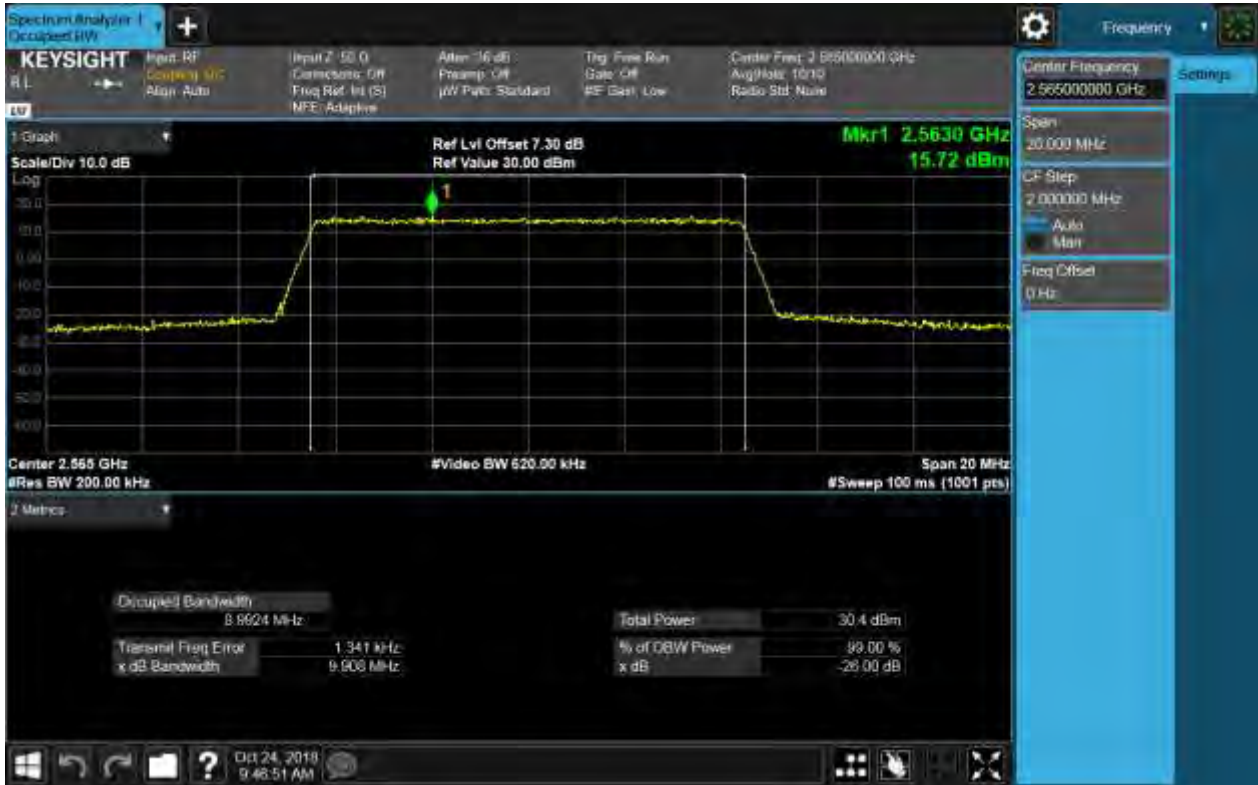
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



#### 4.1.1.1.2.3 Test Channel = HCH

#### 4.1.1.1.2.3.1 Test RB = RB50#0



#### 4.1.1.1.3 Test Bandwidth = 15

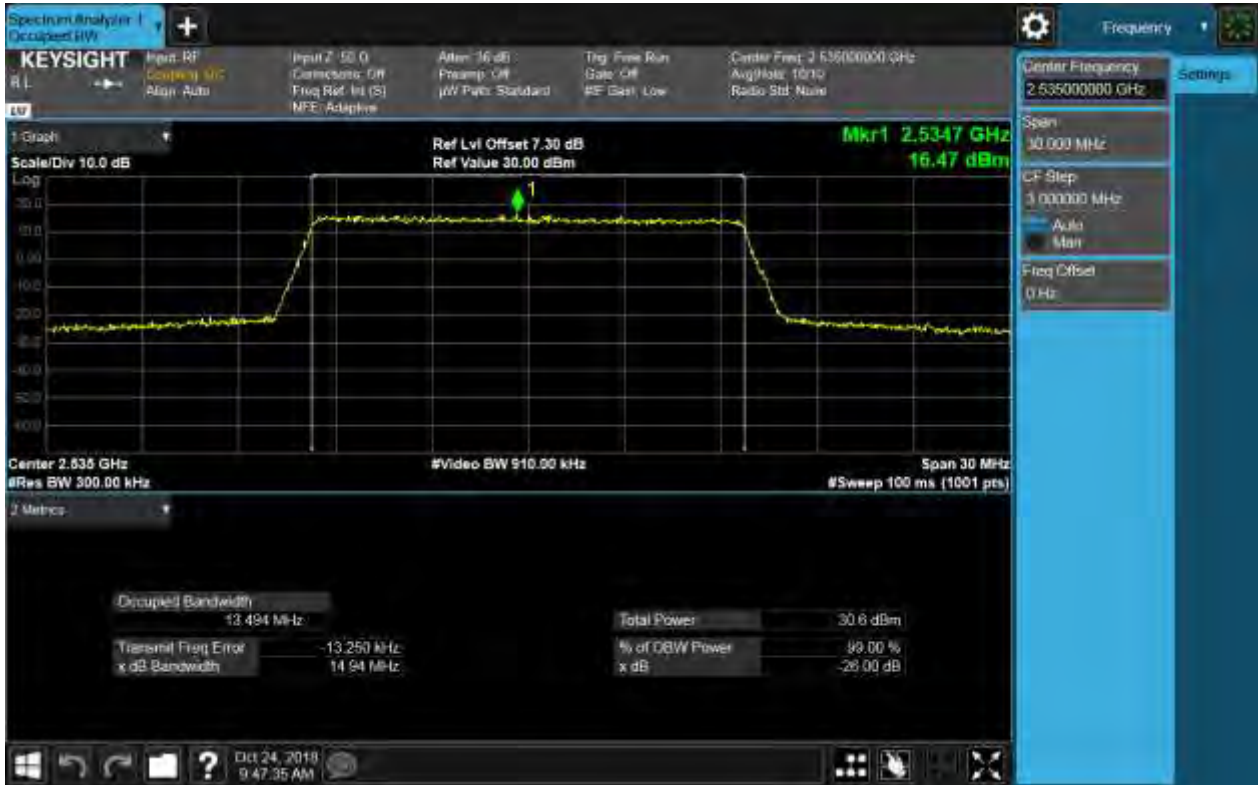
##### 4.1.1.1.3.1 Test Channel = LCH

##### 4.1.1.1.3.1.1 Test RB = RB75#0



#### 4.1.1.1.3.2 Test Channel = MCH

##### 4.1.1.1.3.2.1 Test RB = RB75#0



#### 4.1.1.1.3.3 Test Channel = HCH

##### 4.1.1.1.3.3.1 Test RB = RB75#0



4.1.1.1.4 Test Bandwidth = 20

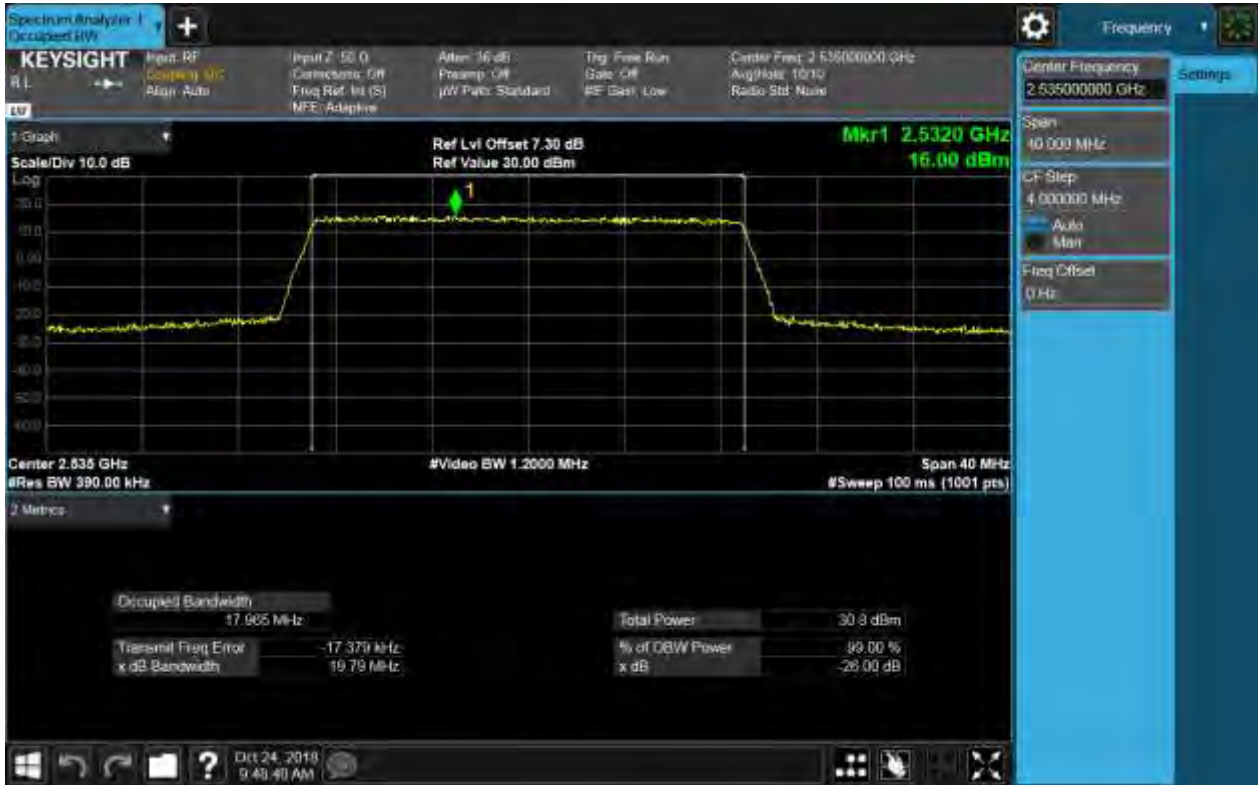
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



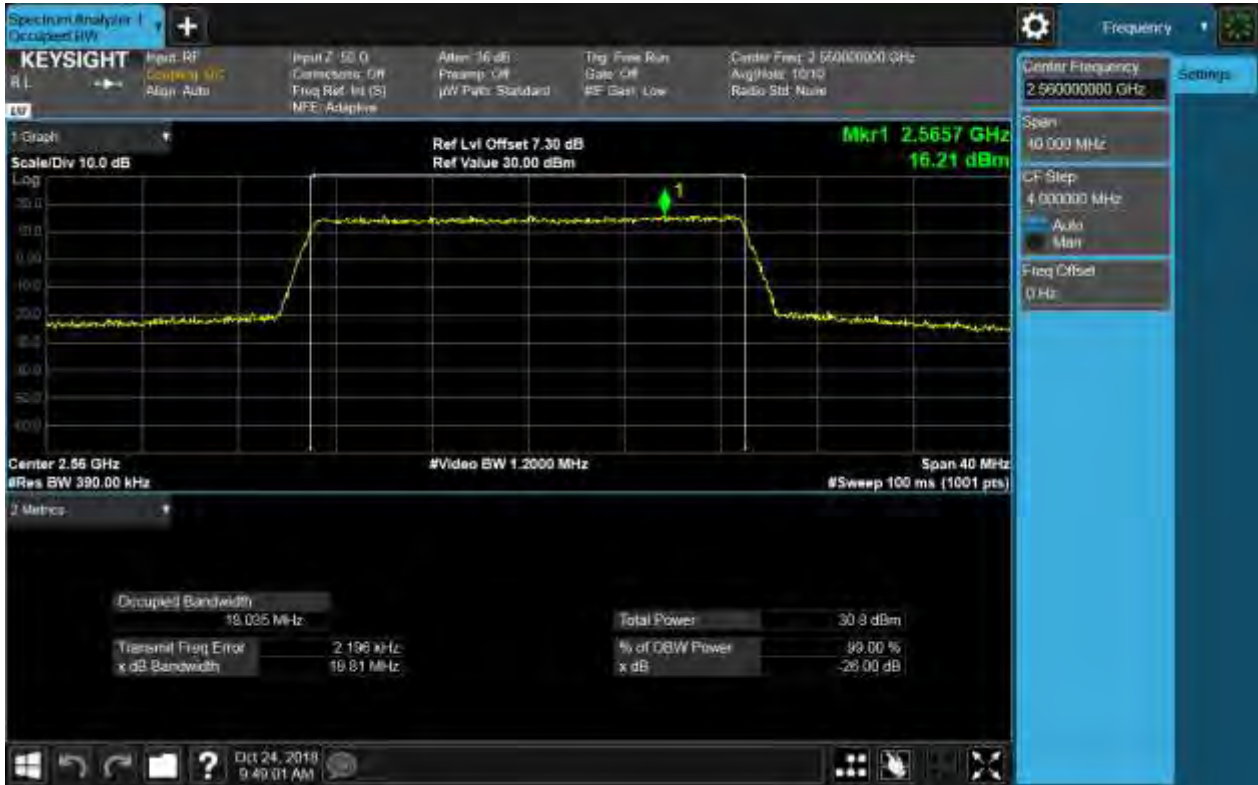
#### 4.1.1.1.4.2 Test Channel = MCH

##### 4.1.1.1.4.2.1 Test RB = RB100#0



#### 4.1.1.1.4.3 Test Channel = HCH

##### 4.1.1.1.4.3.1 Test RB = RB100#0





#### 4.1.1.2 Test Mode = LTE/TM2

##### 4.1.1.2.1 Test Bandwidth = 5

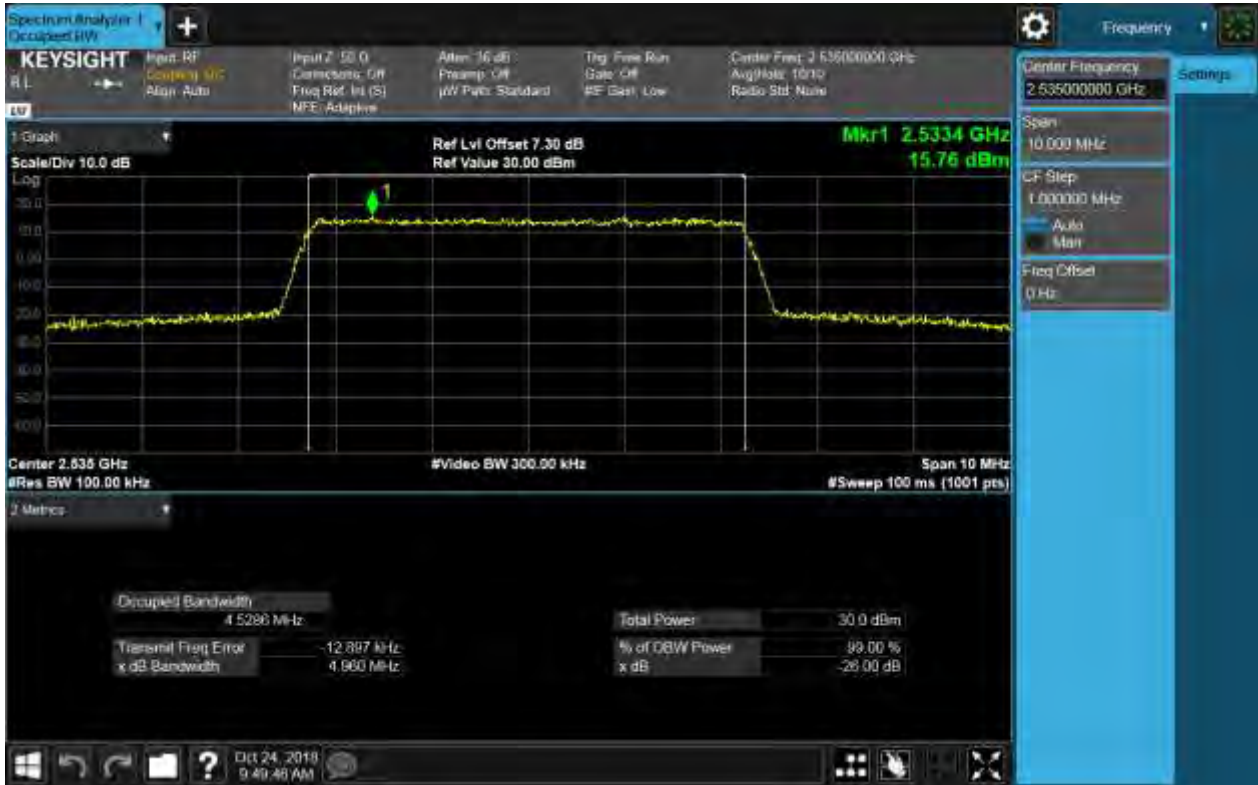
##### 4.1.1.2.1.1 Test Channel = LCH

##### 4.1.1.2.1.1.1 Test RB = RB25#0



#### 4.1.1.2.1.2 Test Channel = MCH

#### 4.1.1.2.1.2.1 Test RB = RB25#0



#### 4.1.1.2.1.3 Test Channel = HCH

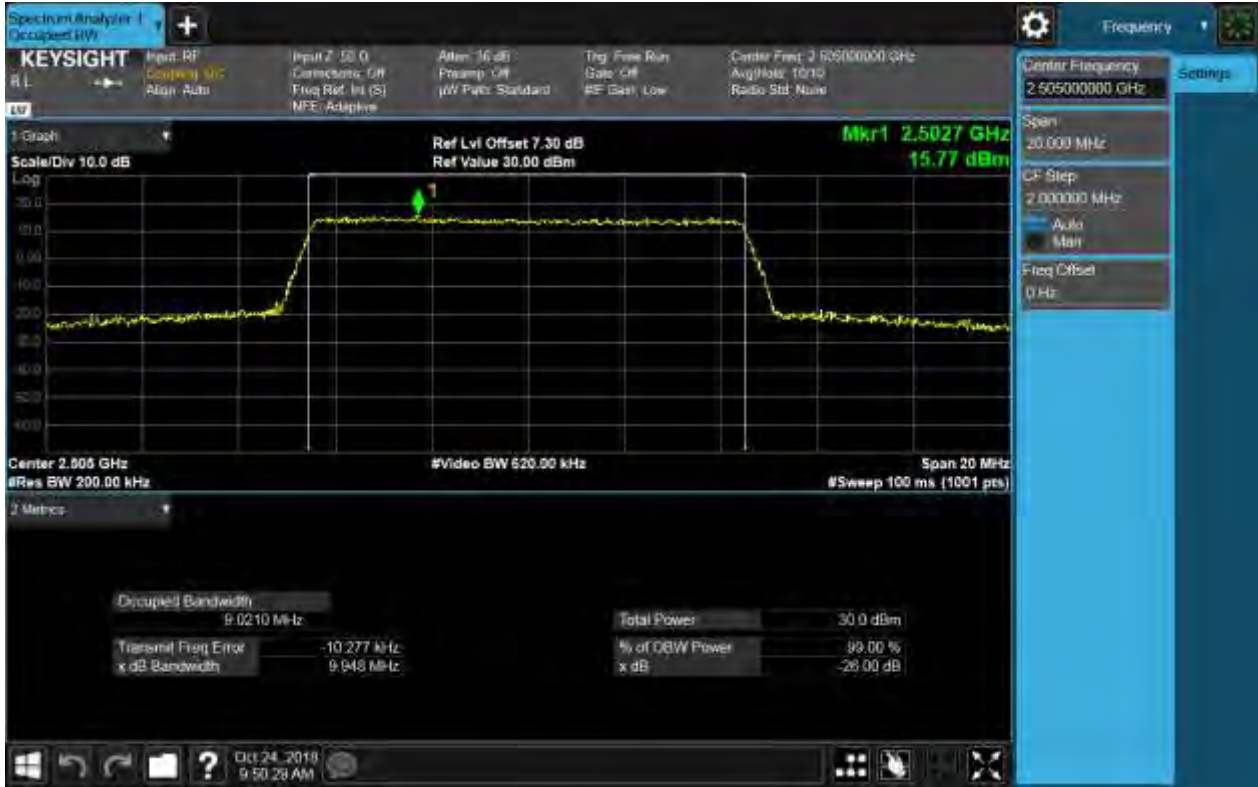
##### 4.1.1.2.1.3.1 Test RB = RB25#0



#### 4.1.1.2.2 Test Bandwidth = 10

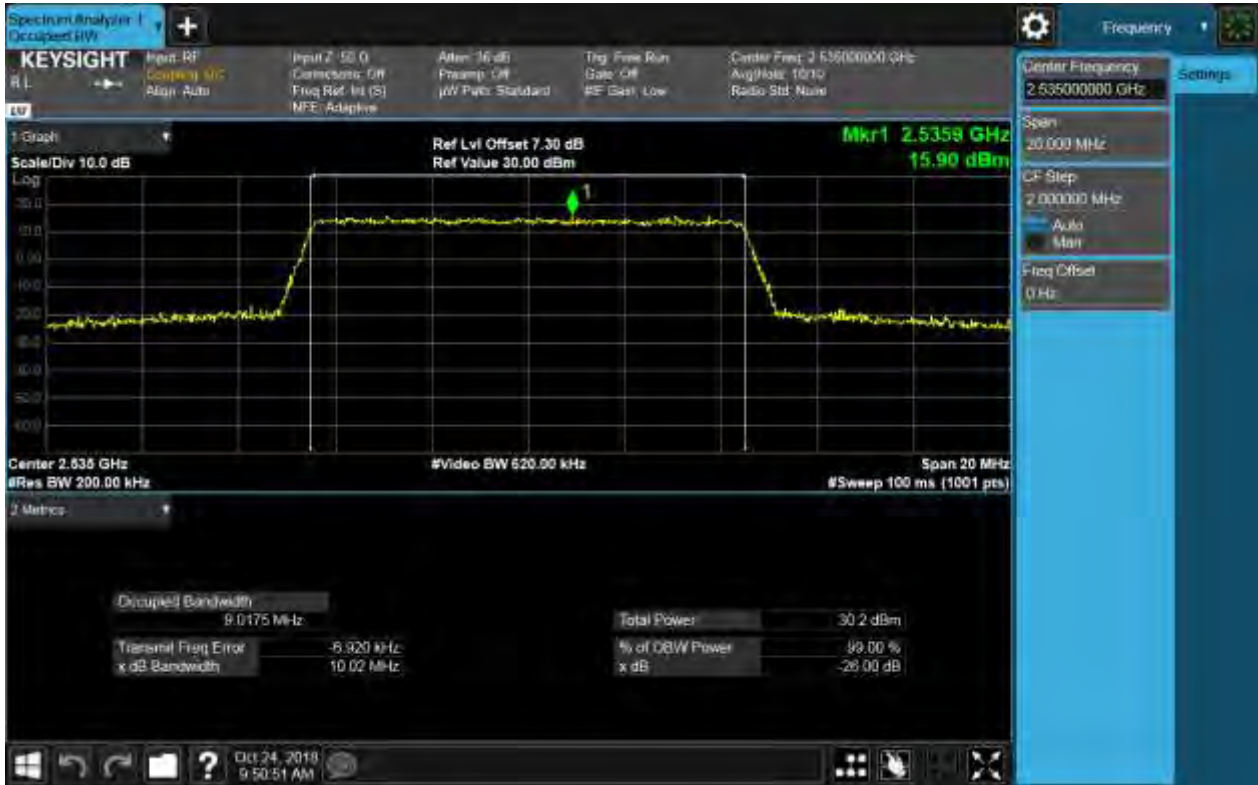
##### 4.1.1.2.2.1 Test Channel = LCH

##### 4.1.1.2.2.1.1 Test RB = RB50#0



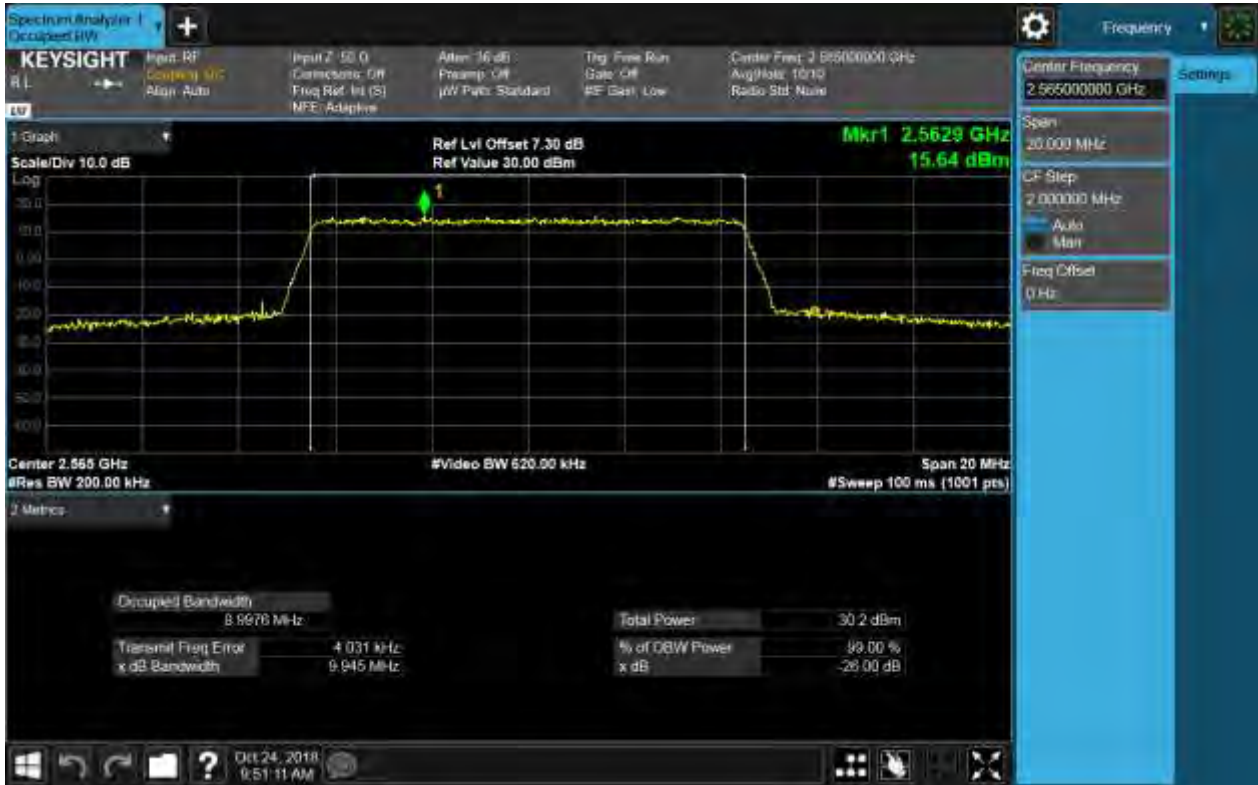
#### 4.1.1.2.2.2 Test Channel = MCH

##### 4.1.1.2.2.2.1 Test RB = RB50#0



#### 4.1.1.2.2.3 Test Channel = HCH

##### 4.1.1.2.2.3.1 Test RB = RB50#0



#### 4.1.1.2.3 Test Bandwidth = 15

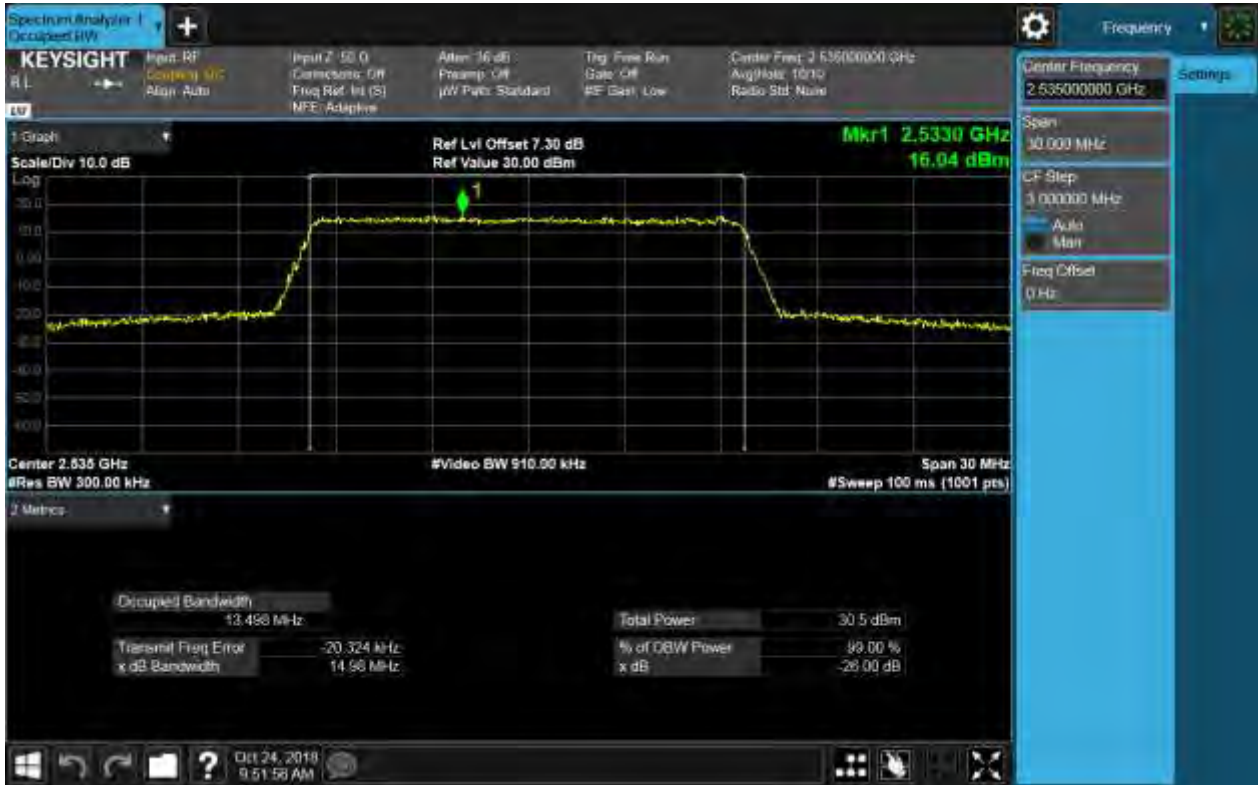
##### 4.1.1.2.3.1 Test Channel = LCH

##### 4.1.1.2.3.1.1 Test RB = RB75#0



#### 4.1.1.2.3.2 Test Channel = MCH

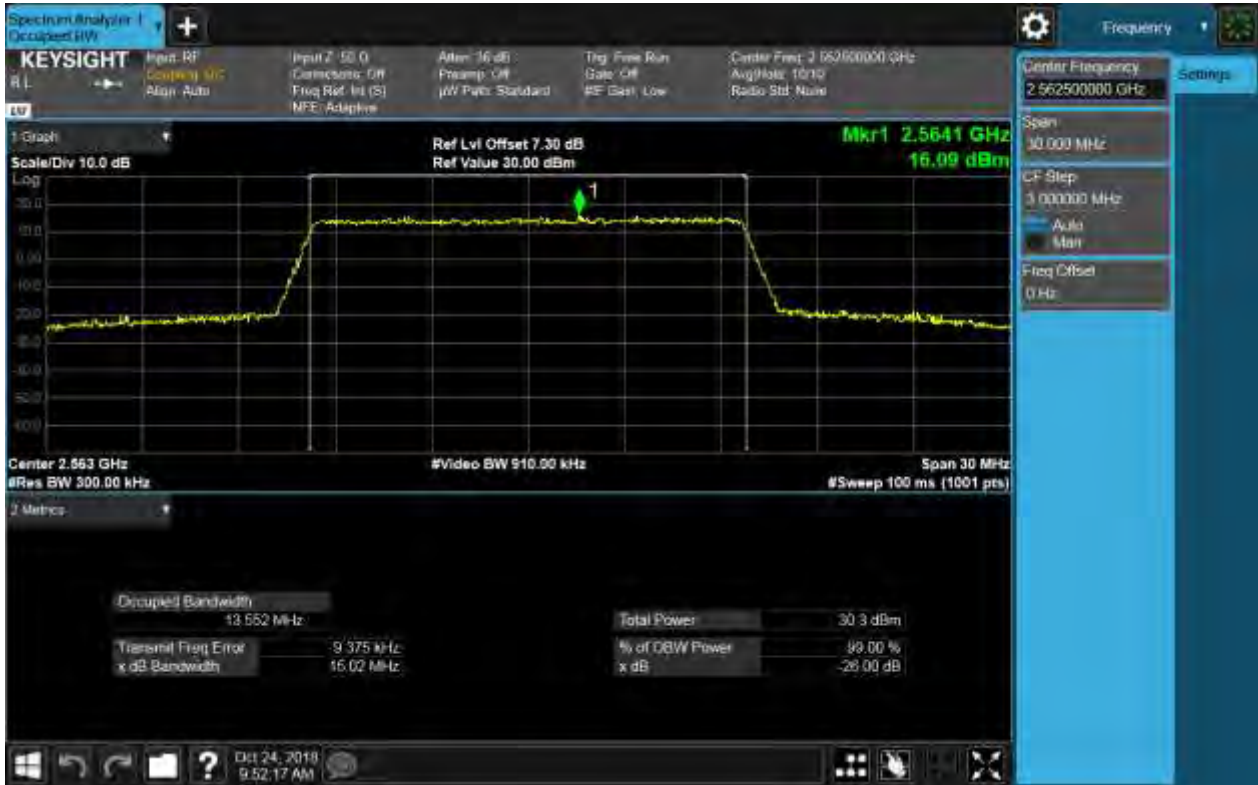
##### 4.1.1.2.3.2.1 Test RB = RB75#0





#### 4.1.1.2.3.3 Test Channel = HCH

##### 4.1.1.2.3.3.1 Test RB = RB75#0



4.1.1.2.4 Test Bandwidth = 20

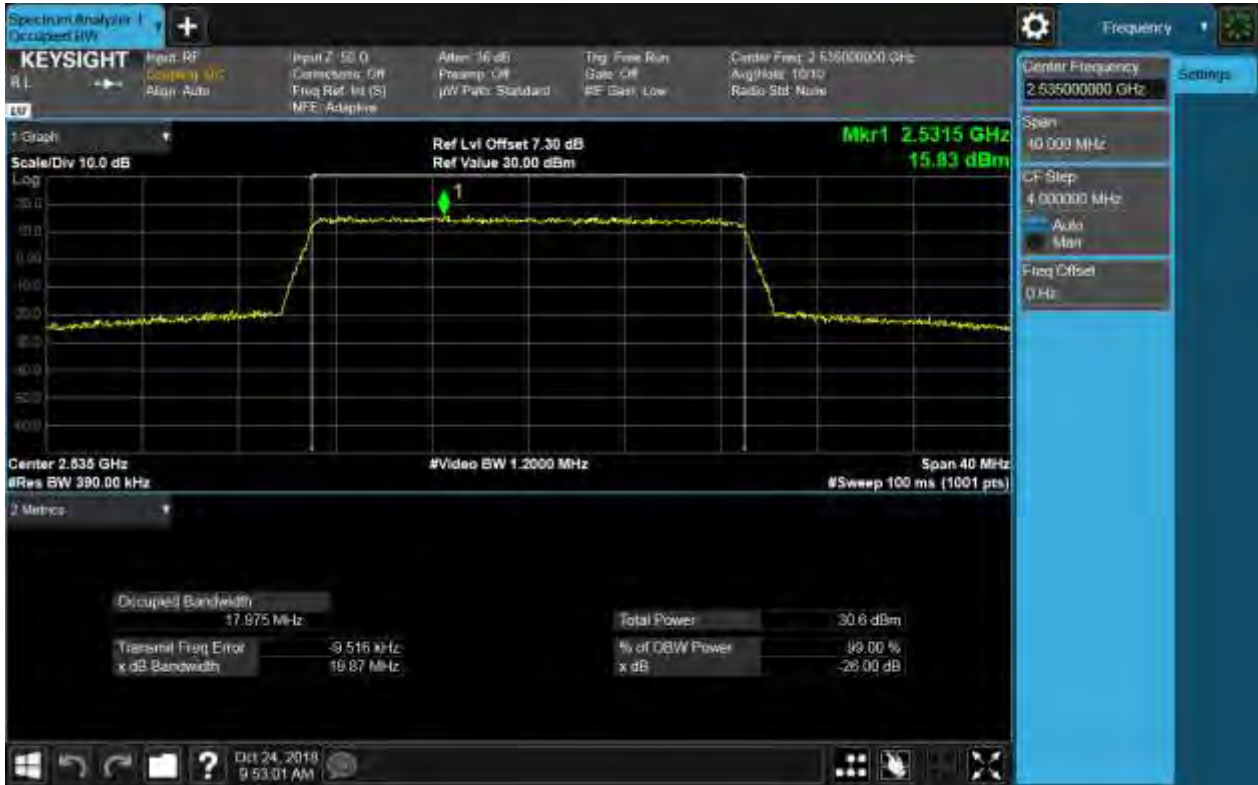
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



#### 4.1.1.2.4.2 Test Channel = MCH

##### 4.1.1.2.4.2.1 Test RB = RB100#0



#### 4.1.1.2.4.3 Test Channel = HCH

##### 4.1.1.2.4.3.1 Test RB = RB100#0



## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

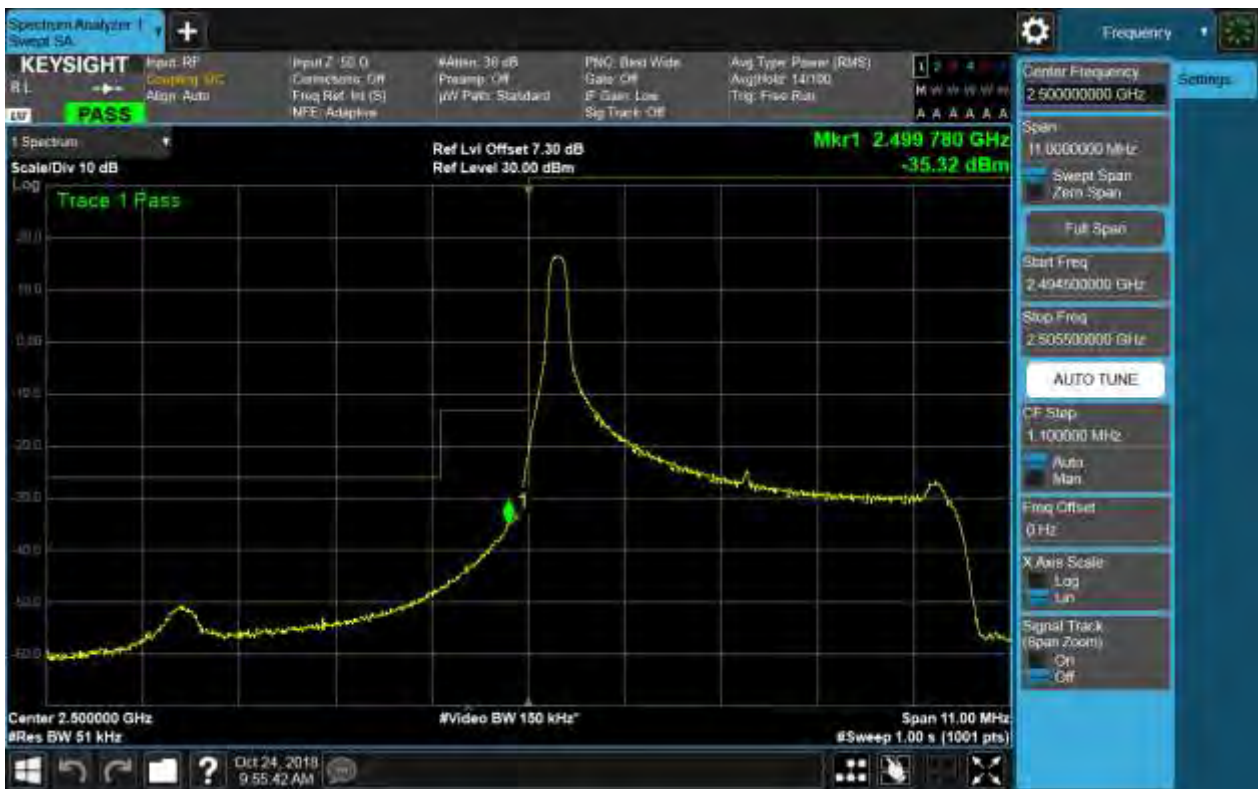
##### 5.1.1 Test Band = BAND7

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

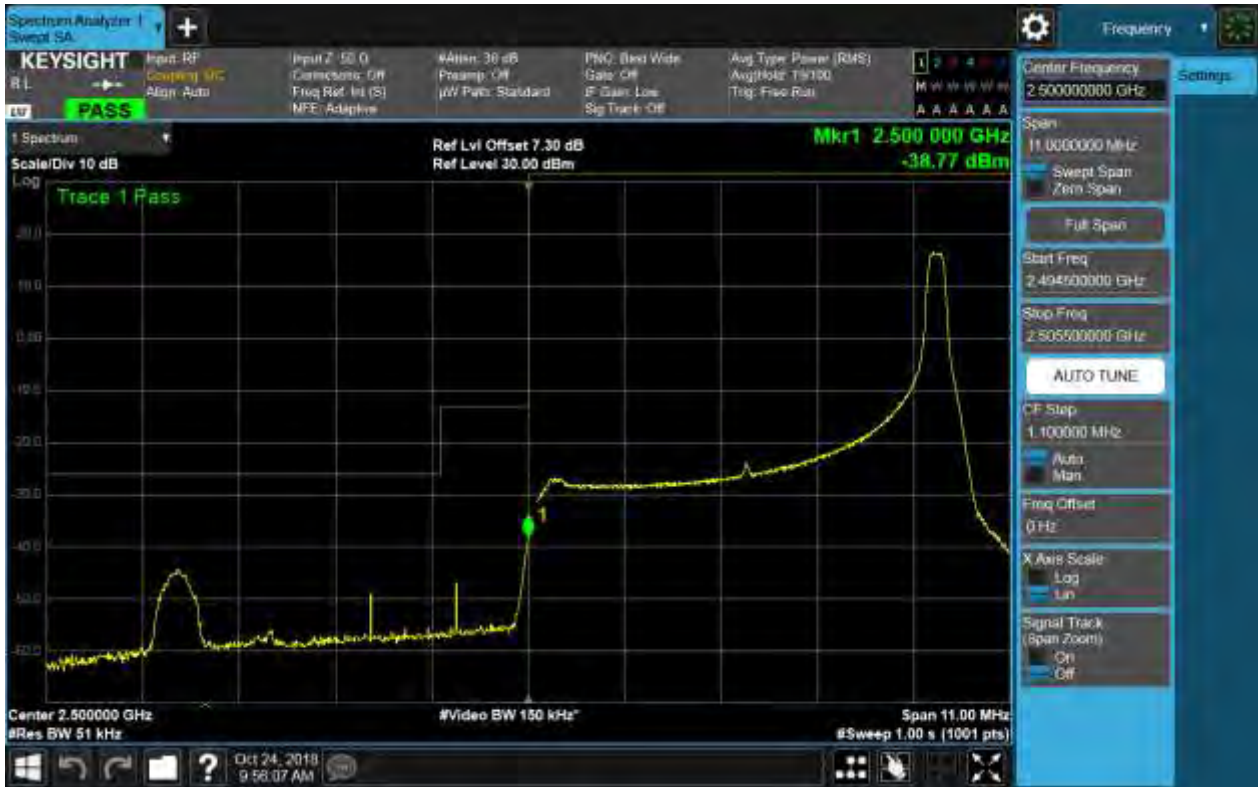
##### 5.1.1.1.1 Test Bandwidth = 5

##### 5.1.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1.1 Test RB = RB1#0



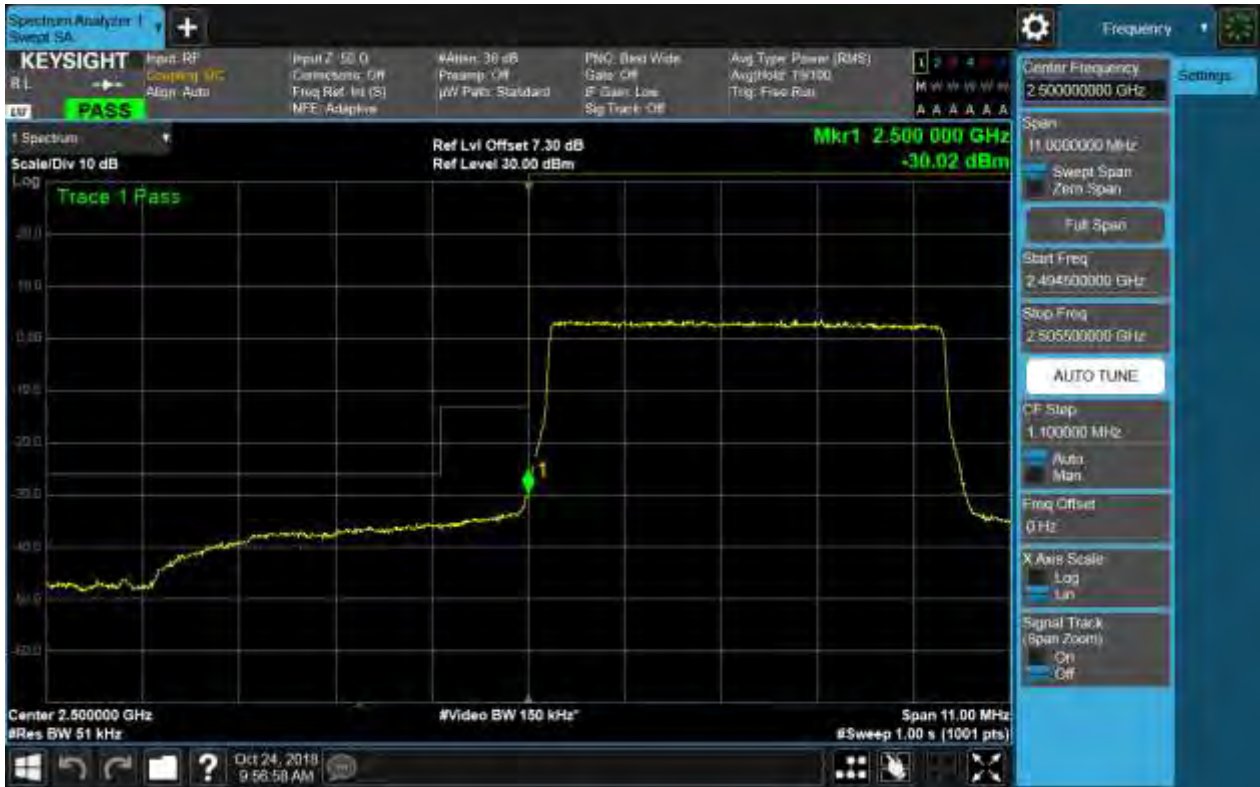
## 5.1.1.1.1.2 Test RB = RB1#24



## 5.1.1.1.1.3 Test RB = RB12#6



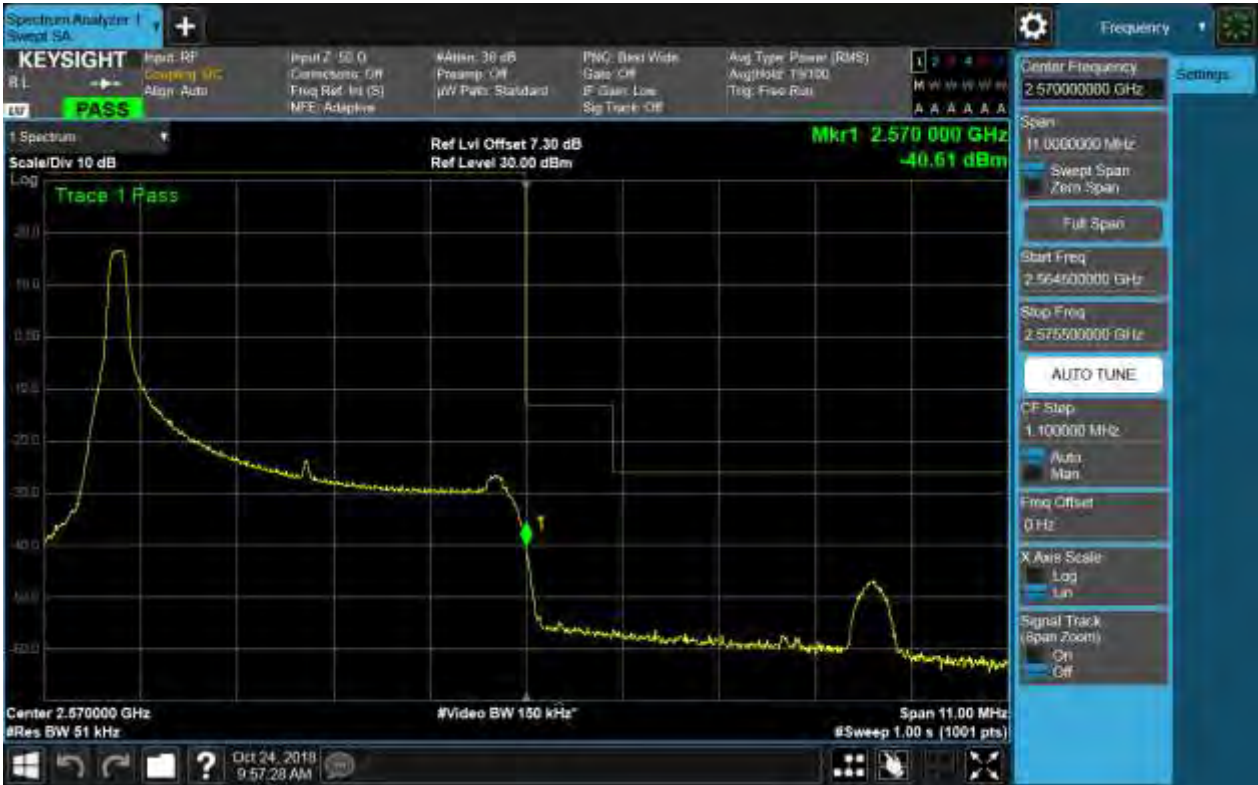
## 5.1.1.1.1.4 Test RB = RB25#0



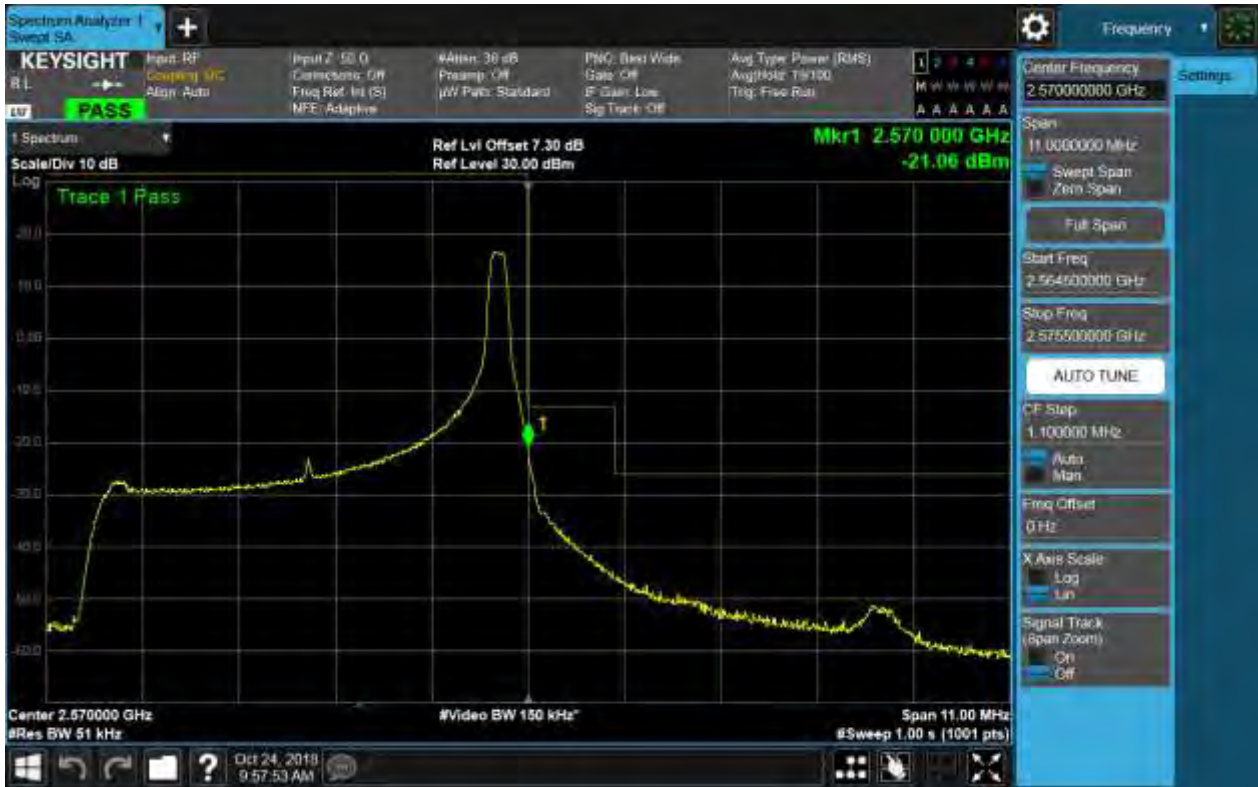


5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



## 5.1.1.1.1.2.2 Test RB = RB1#24



5.1.1.1.1.2.3 Test RB = RB12#6



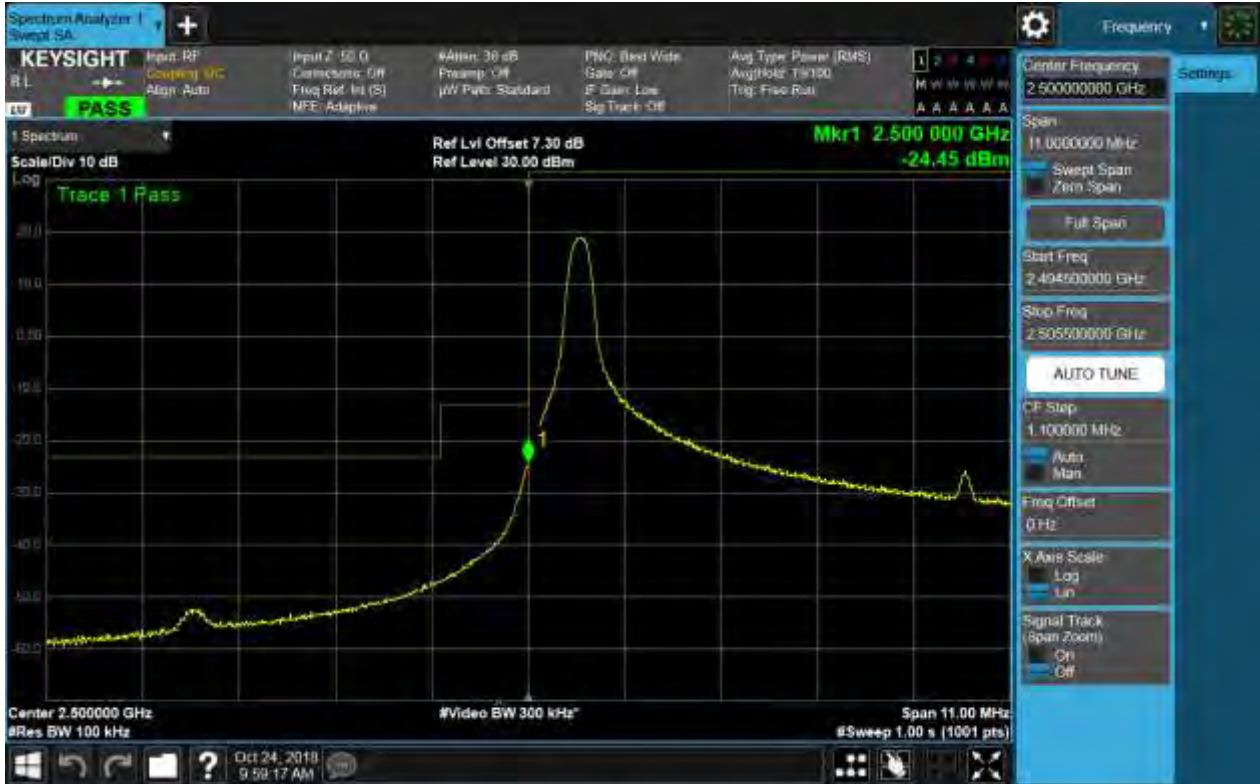
## 5.1.1.1.1.2.4 Test RB = RB25#0



### 5.1.1.1.2 Test Bandwidth = 10

#### 5.1.1.1.2.1 Test Channel = LCH

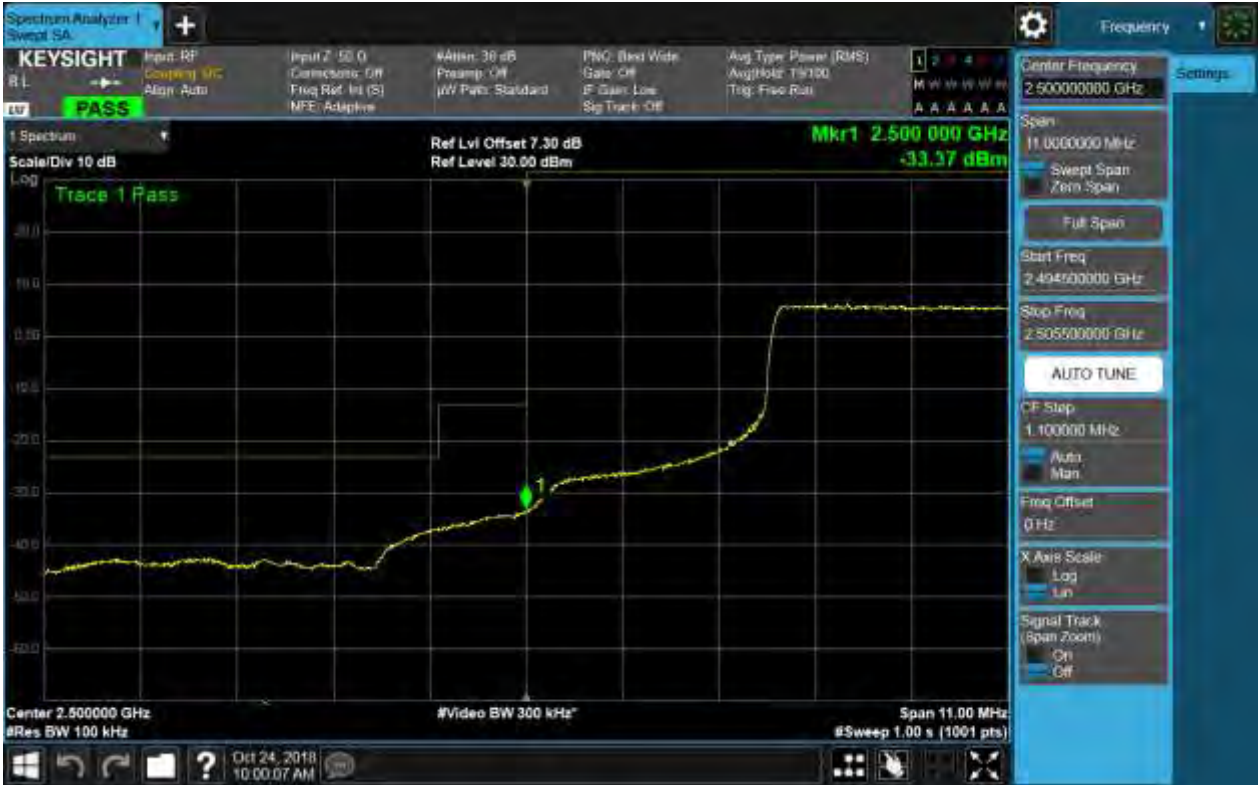
##### 5.1.1.1.2.1.1 Test RB = RB1#0



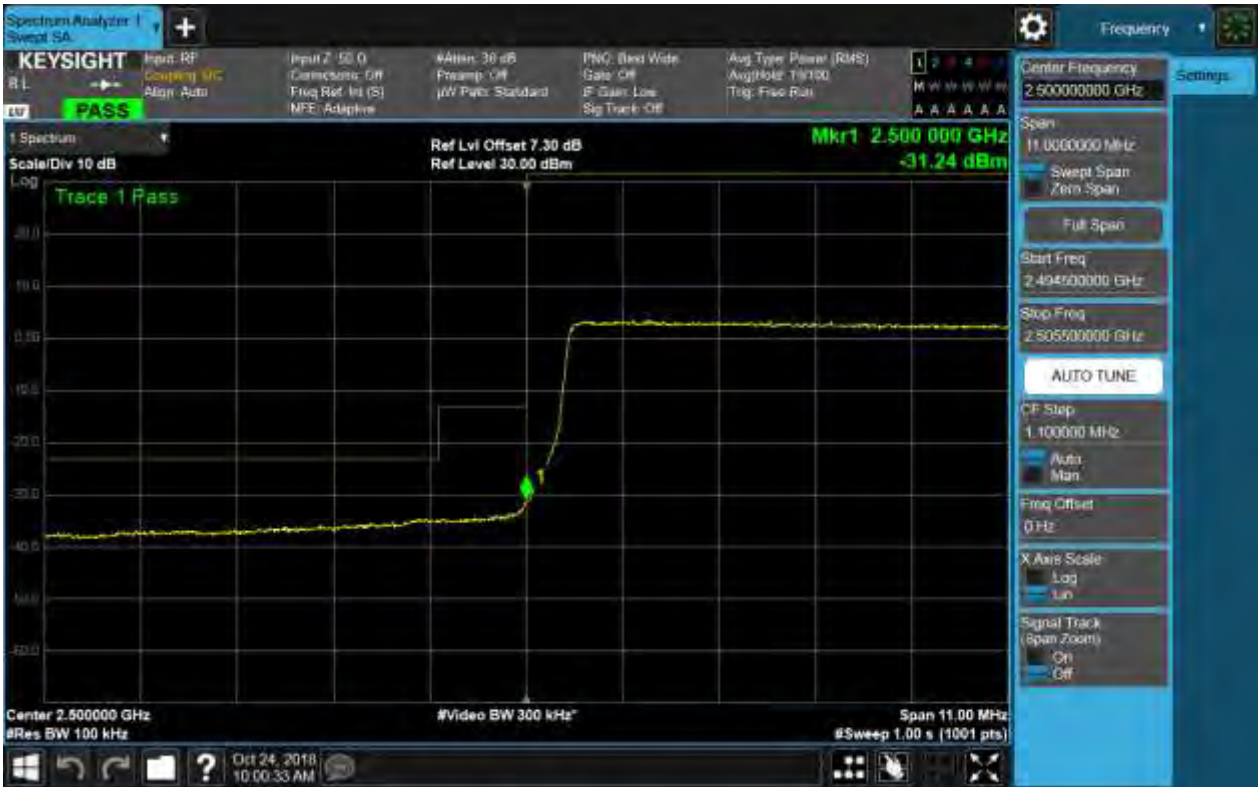
## 5.1.1.1.2.1.2 Test RB = RB1#49



5.1.1.1.2.1.3 Test RB = RB25#13



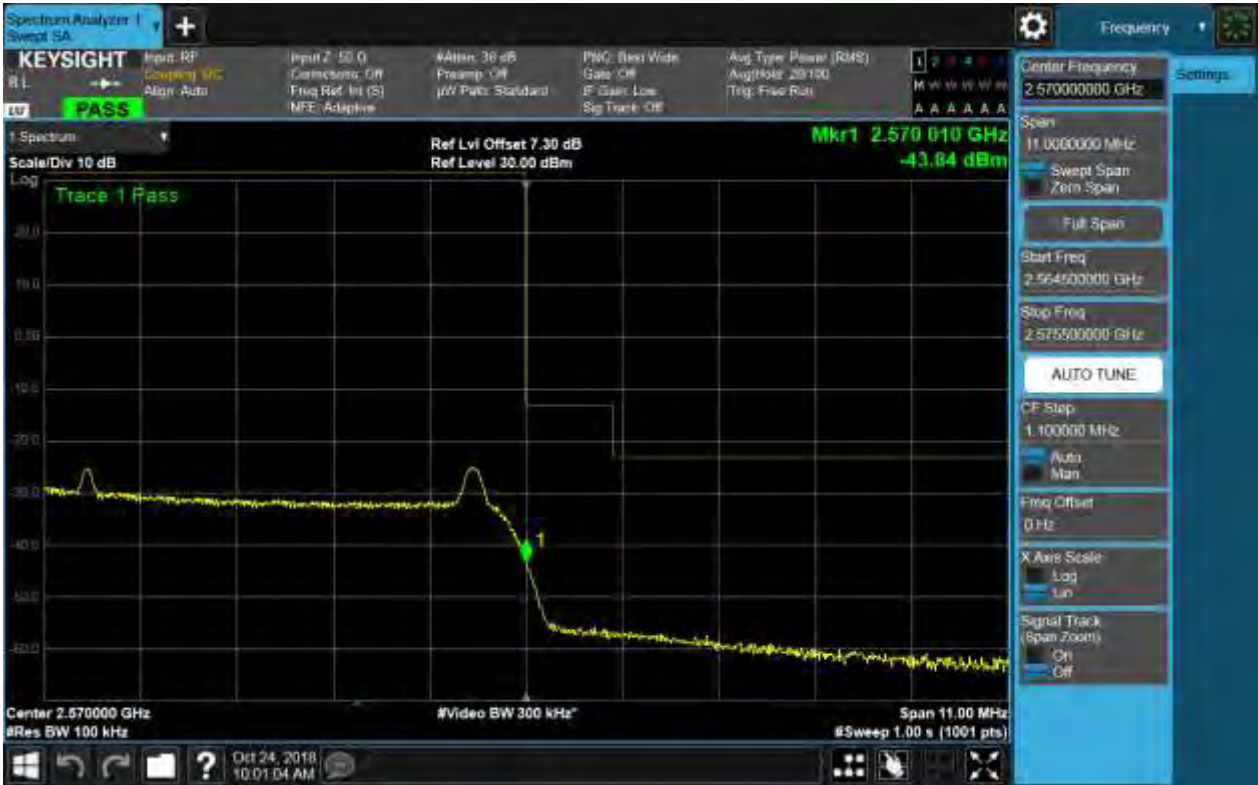
5.1.1.1.2.1.4 Test RB = RB50#0



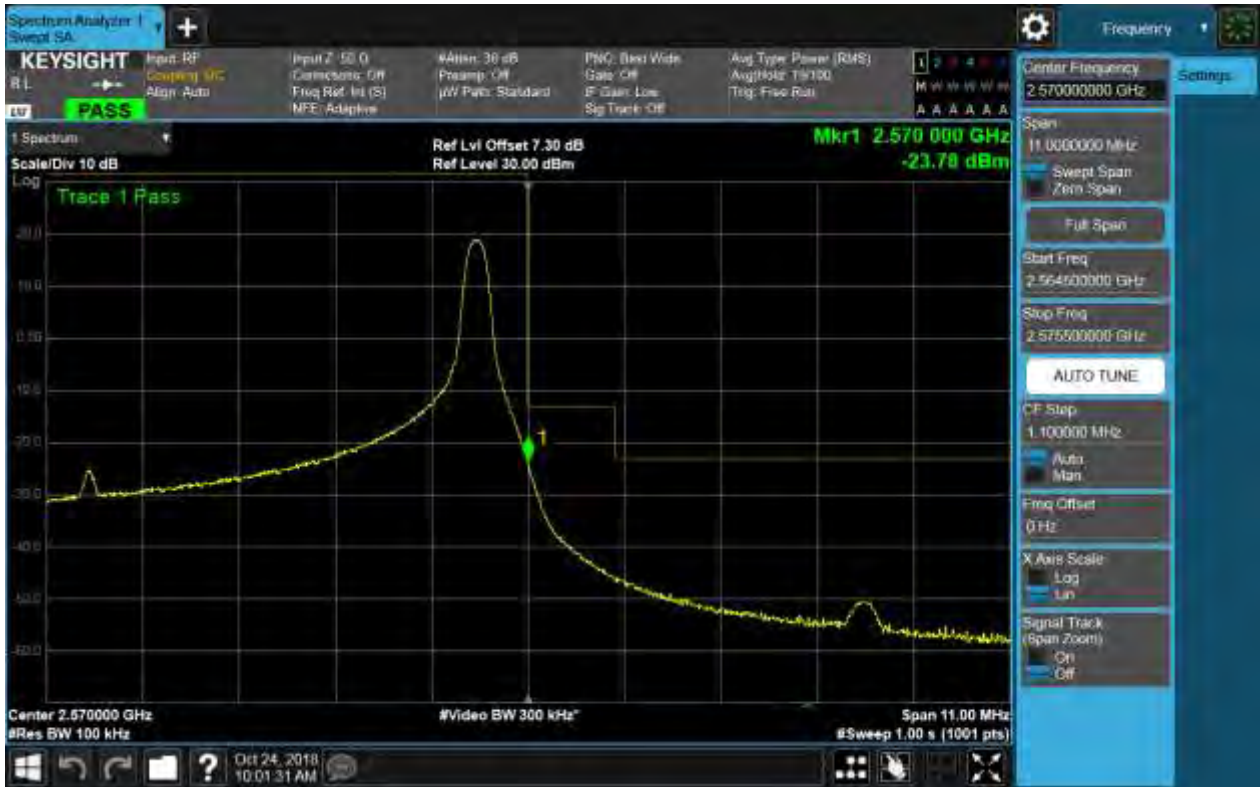


5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0



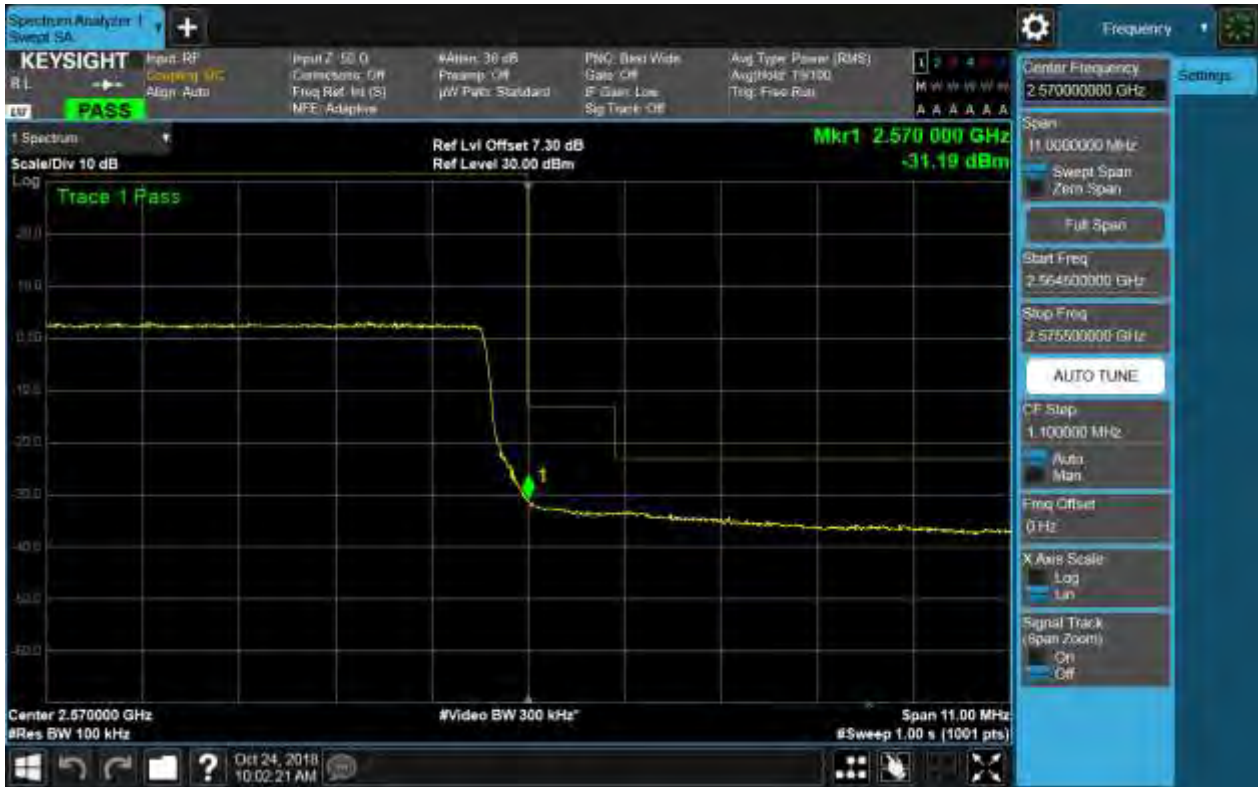
## 5.1.1.1.2.2.2 Test RB = RB1#49



5.1.1.1.2.2.3 Test RB = RB25#13



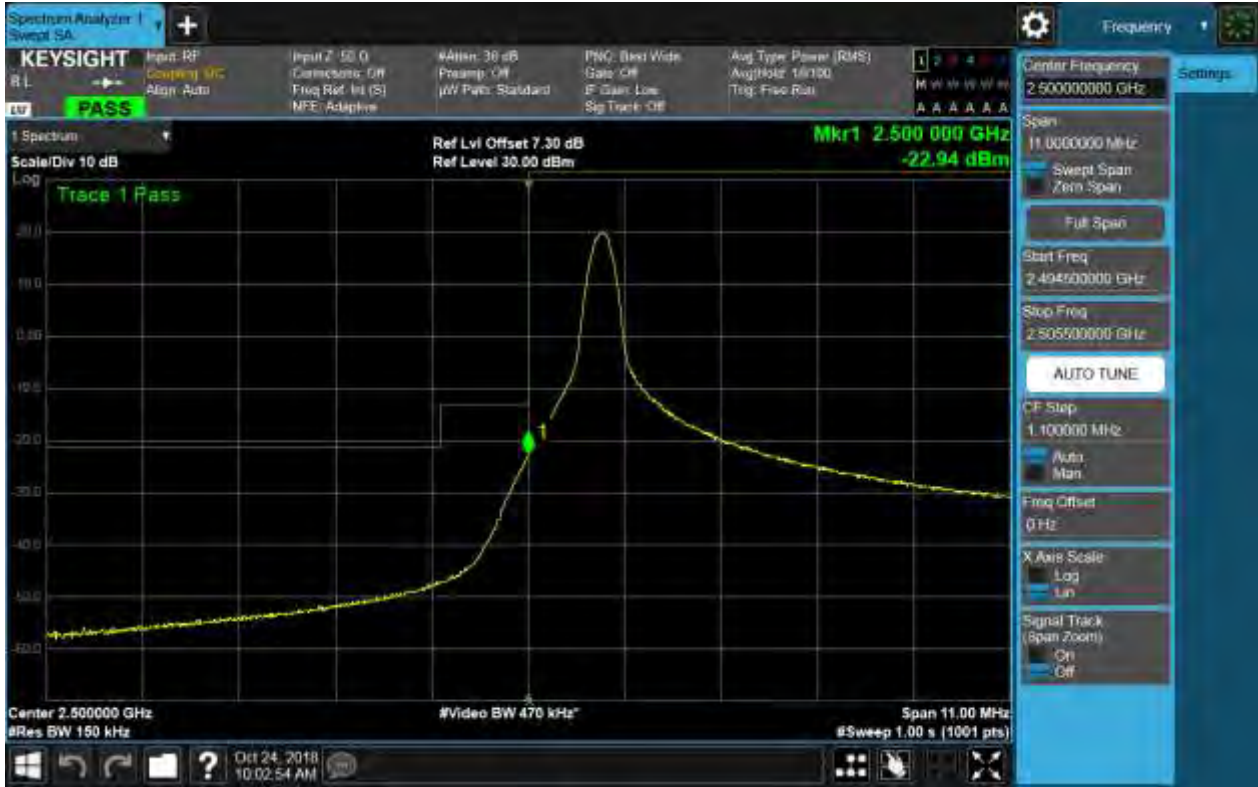
## 5.1.1.1.2.2.4 Test RB = RB50#0



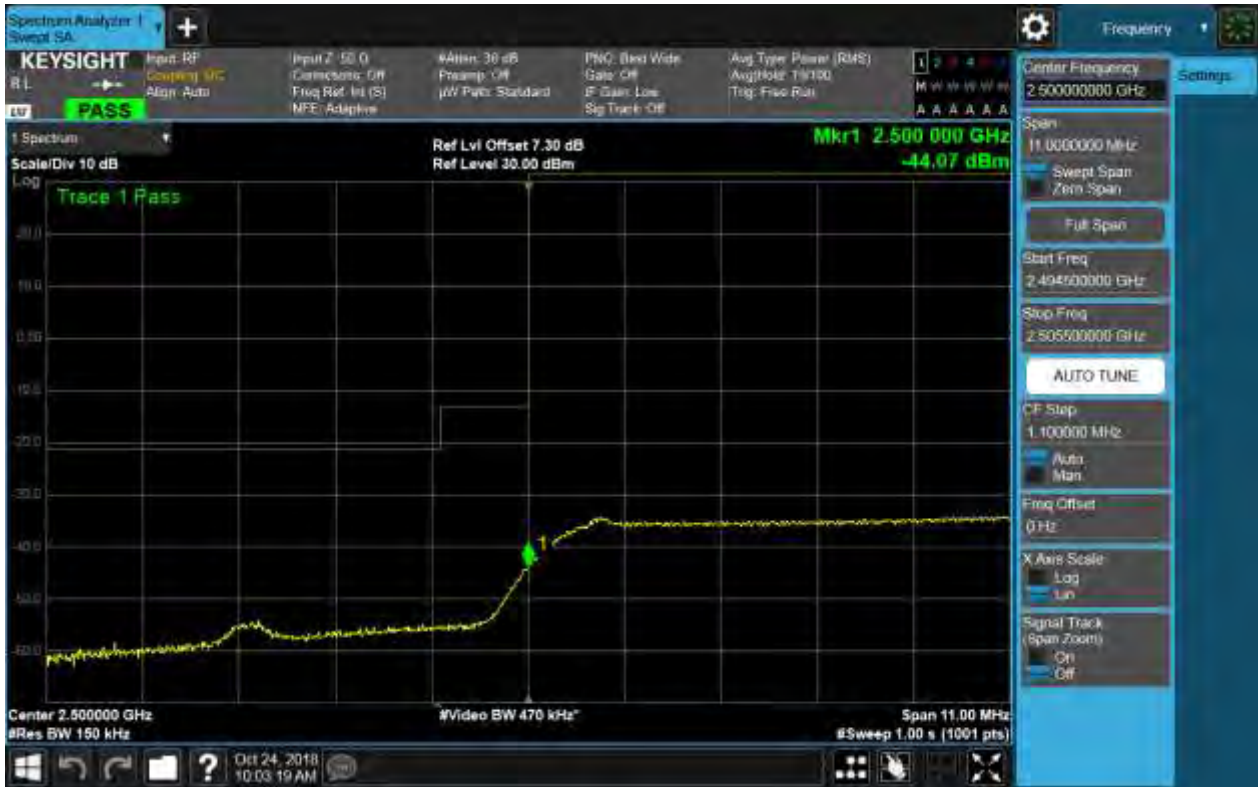
### 5.1.1.1.3 Test Bandwidth = 15

#### 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#74



5.1.1.1.3.1.3 Test RB = RB38#19



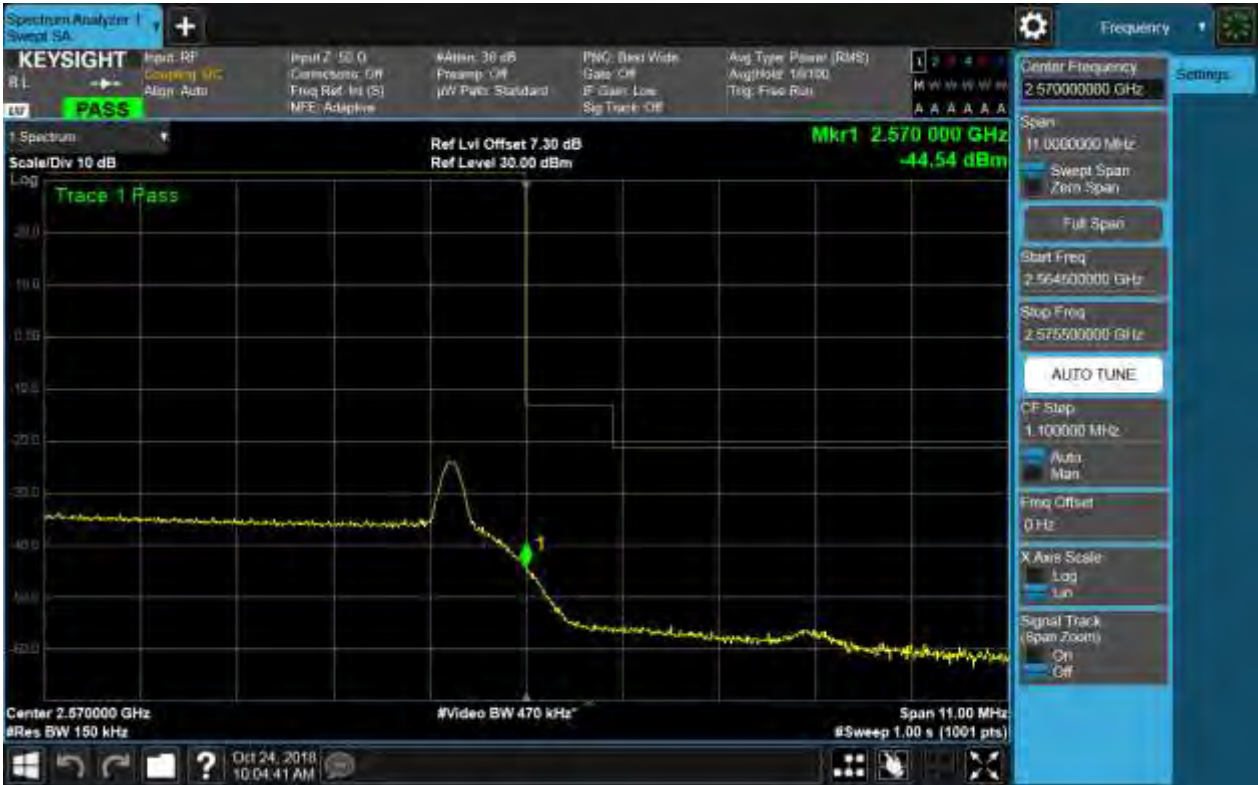
5.1.1.1.3.1.4 Test RB = RB75#0



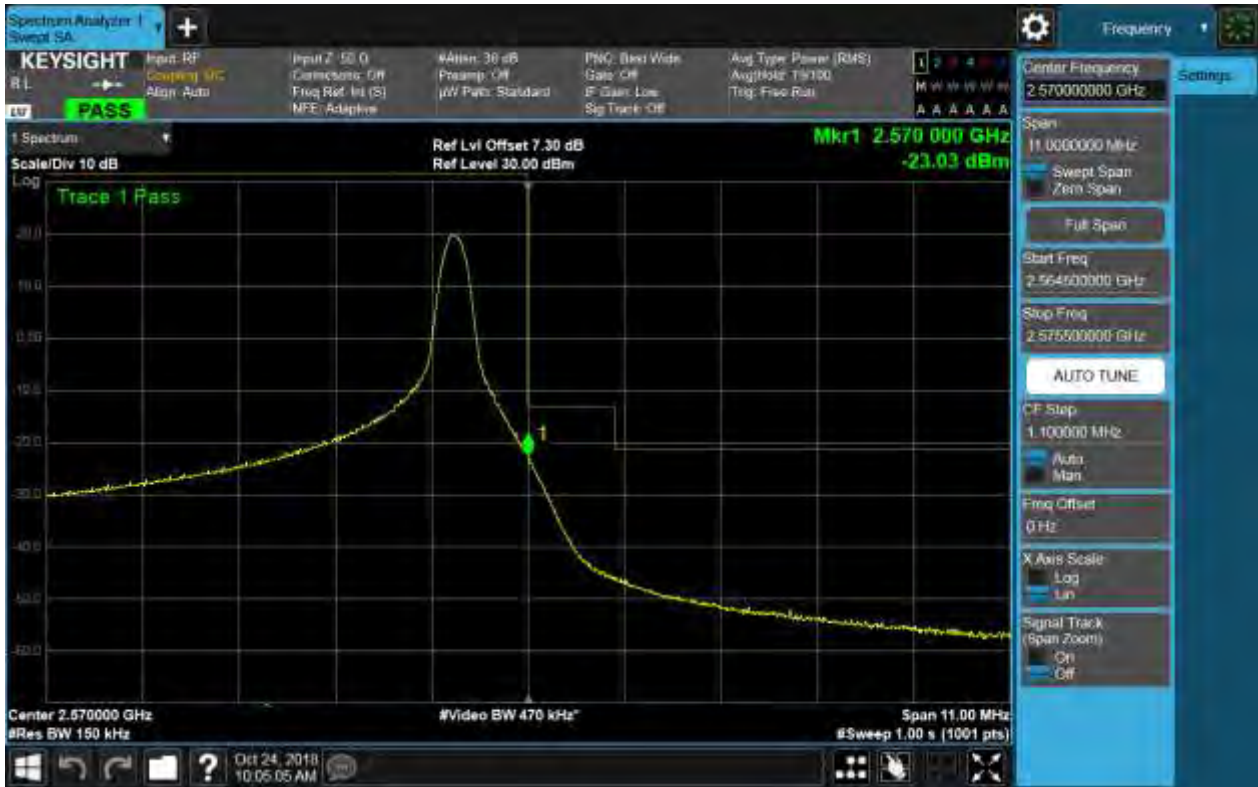


5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0



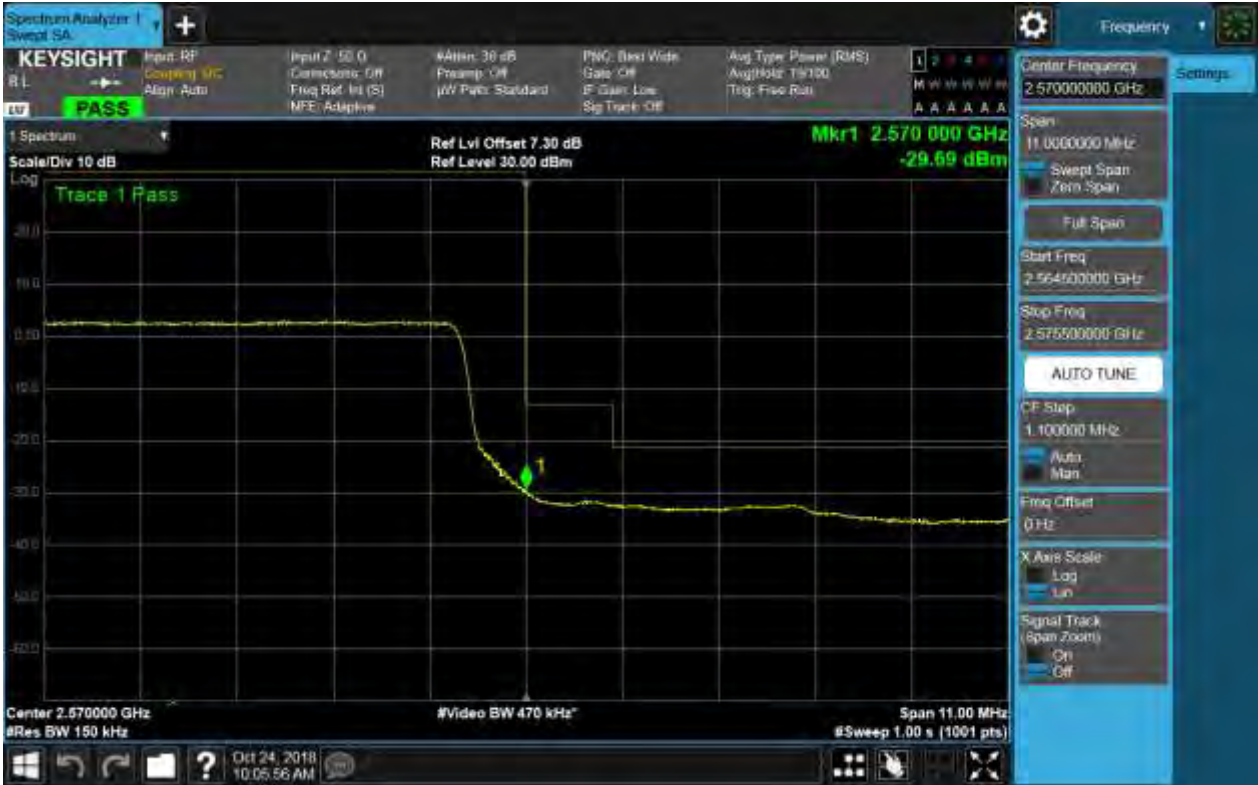
## 5.1.1.1.3.2.2 Test RB = RB1#74



## 5.1.1.1.3.2.3 Test RB = RB38#19



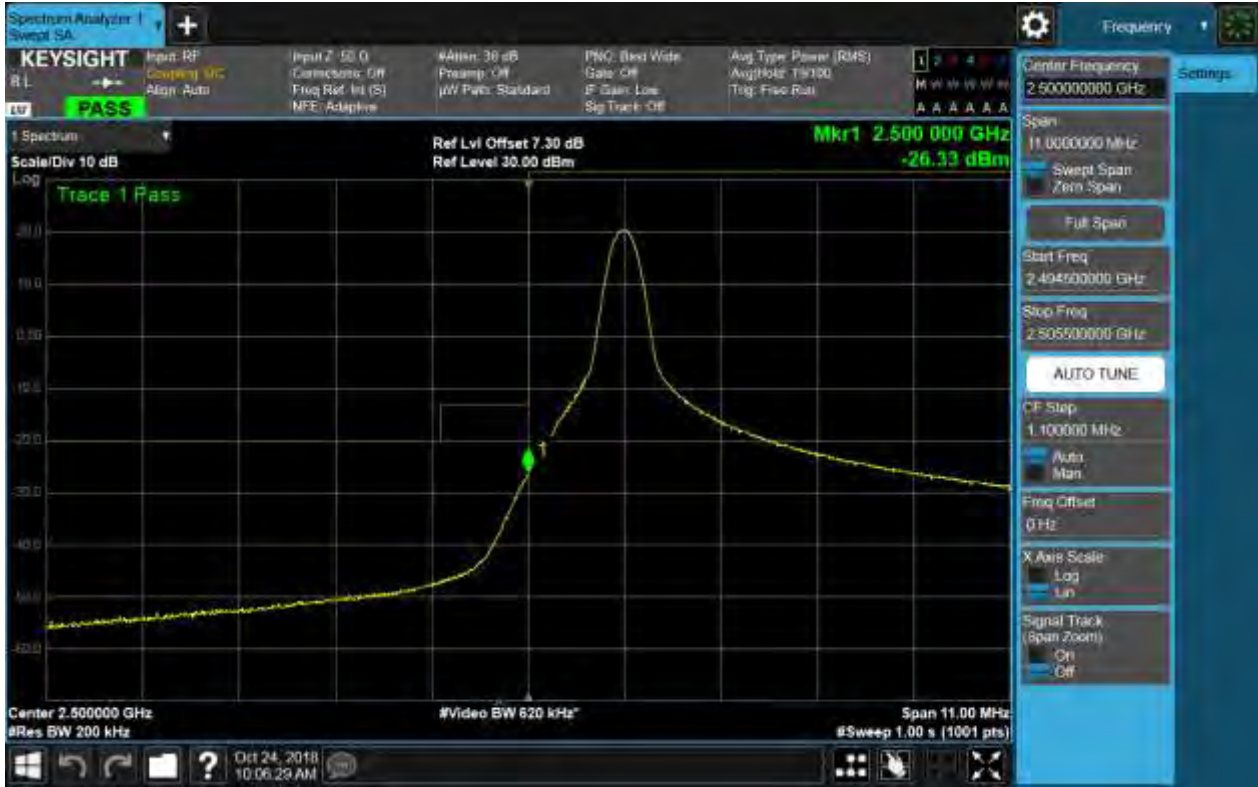
5.1.1.1.3.2.4 Test RB = RB75#0



#### 5.1.1.1.4 Test Bandwidth = 20

##### 5.1.1.1.4.1 Test Channel = LCH

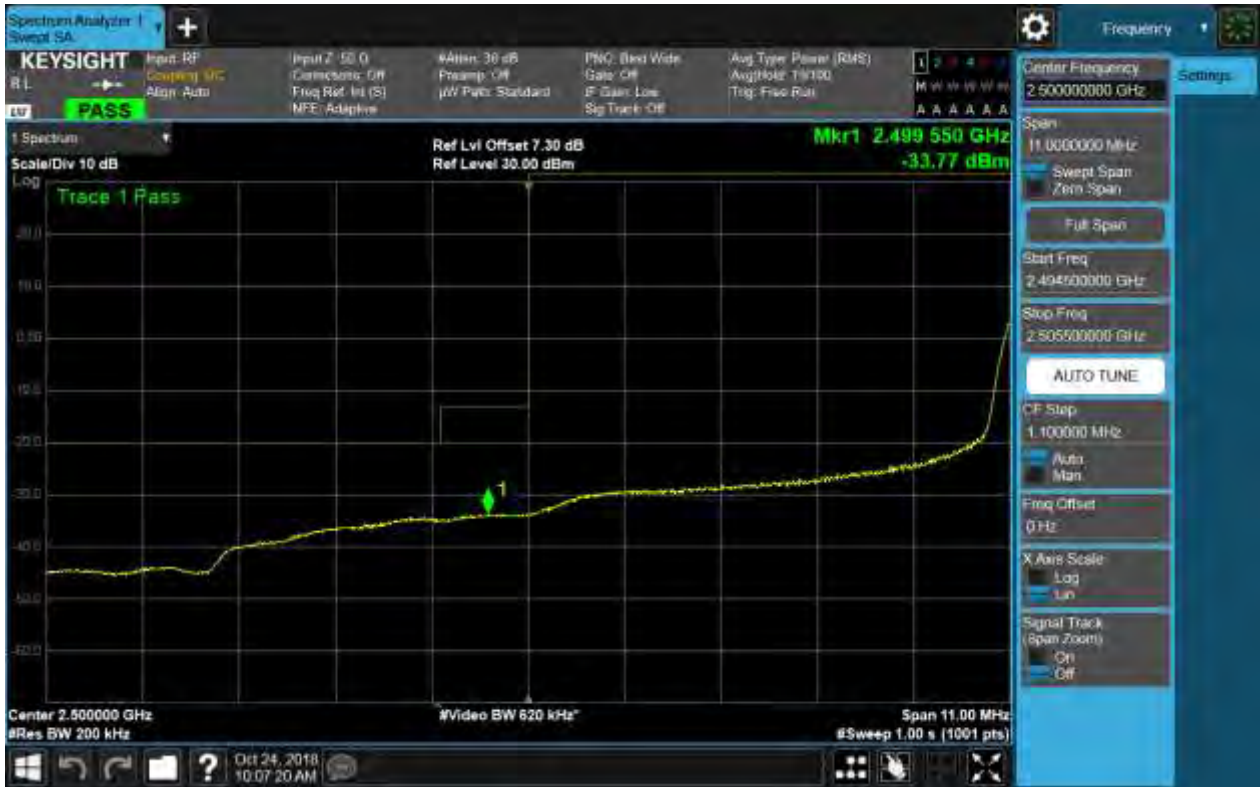
##### 5.1.1.1.4.1.1 Test RB = RB1#0



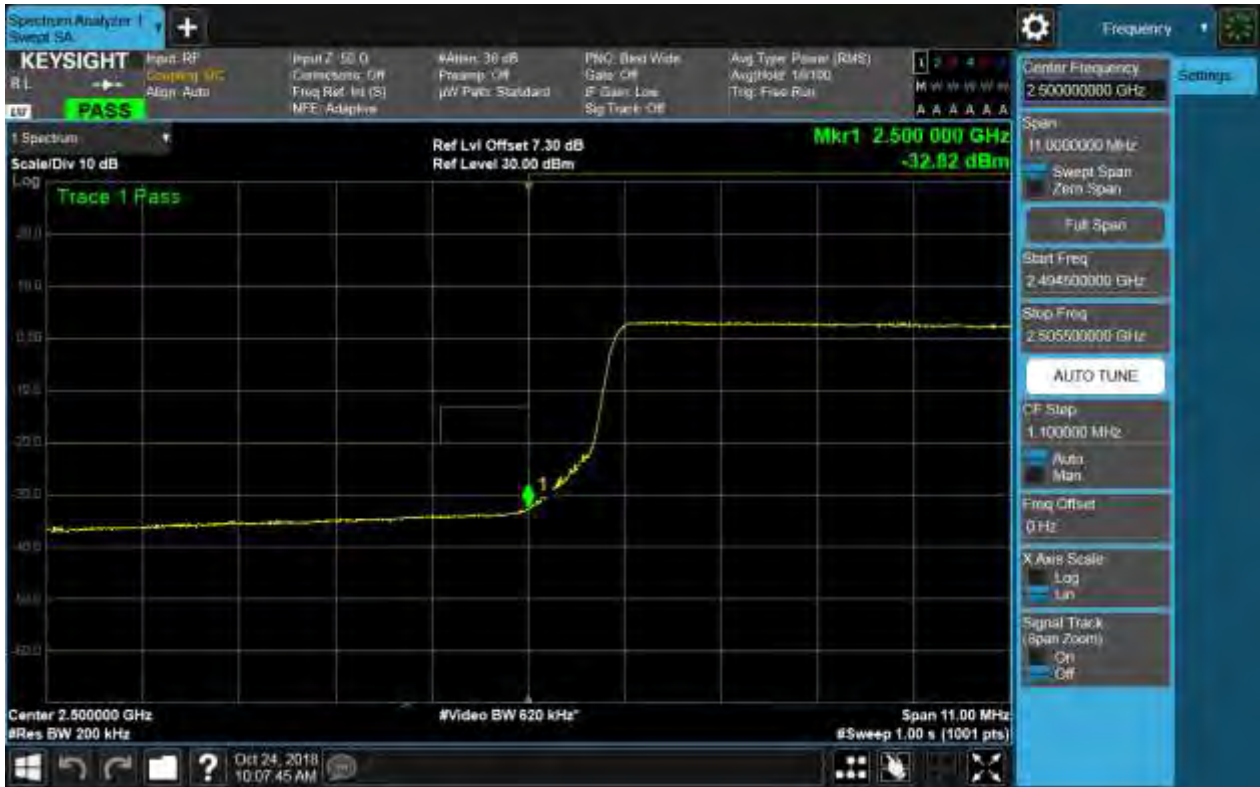
## 5.1.1.1.4.1.2 Test RB = RB1#99



5.1.1.1.4.1.3 Test RB = RB50#25



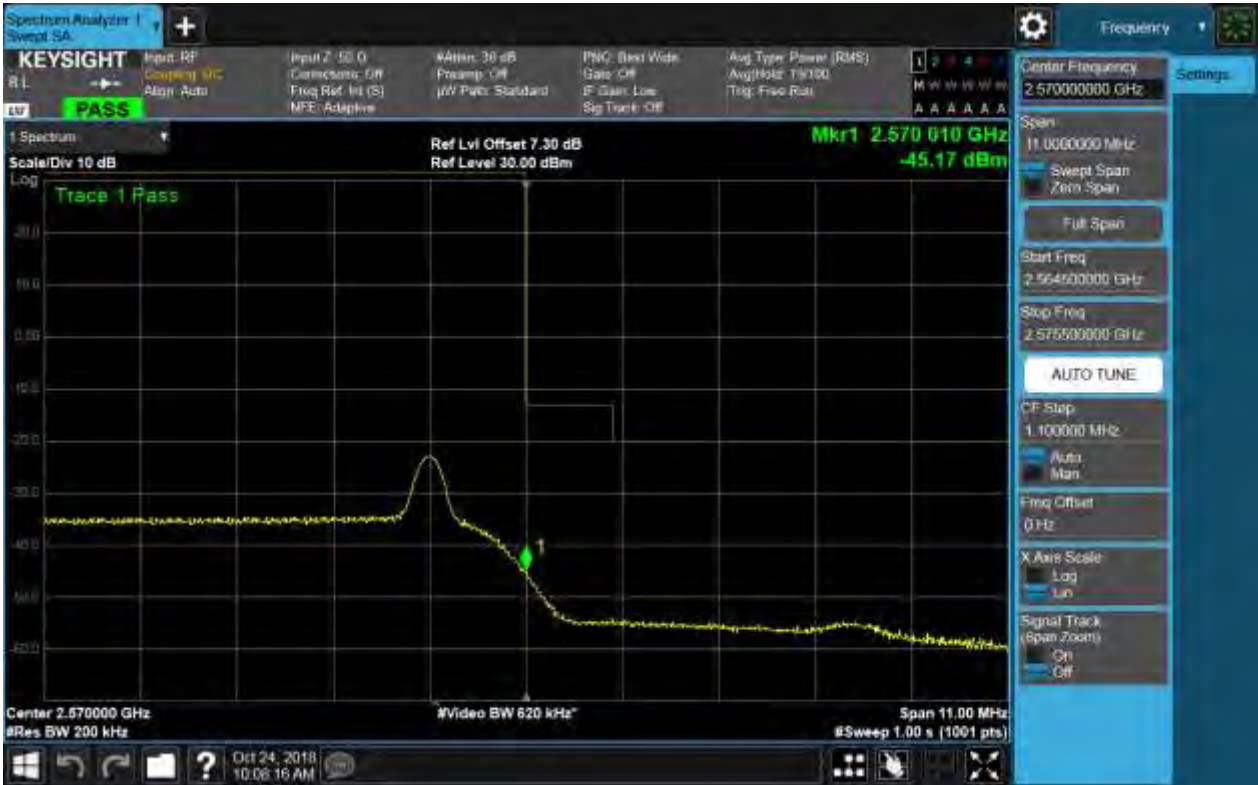
## 5.1.1.1.4.1.4 Test RB = RB100#0



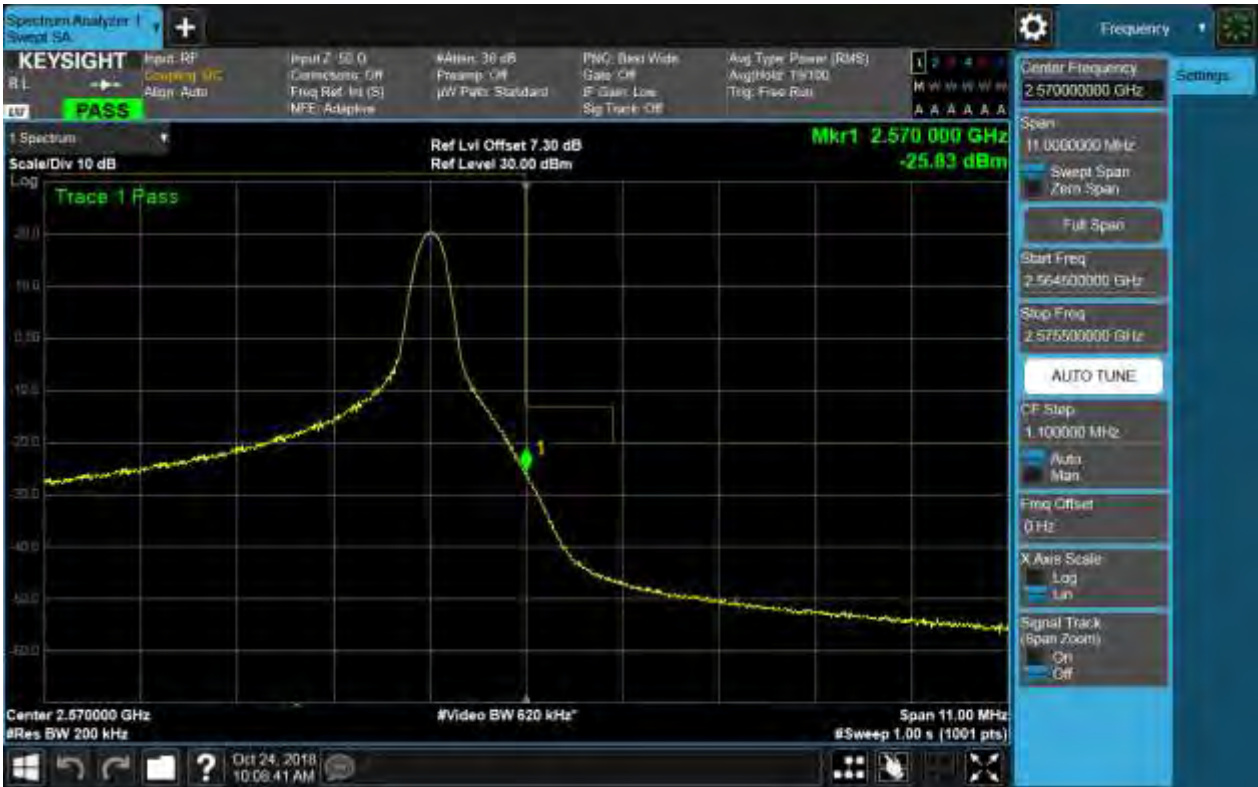


5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



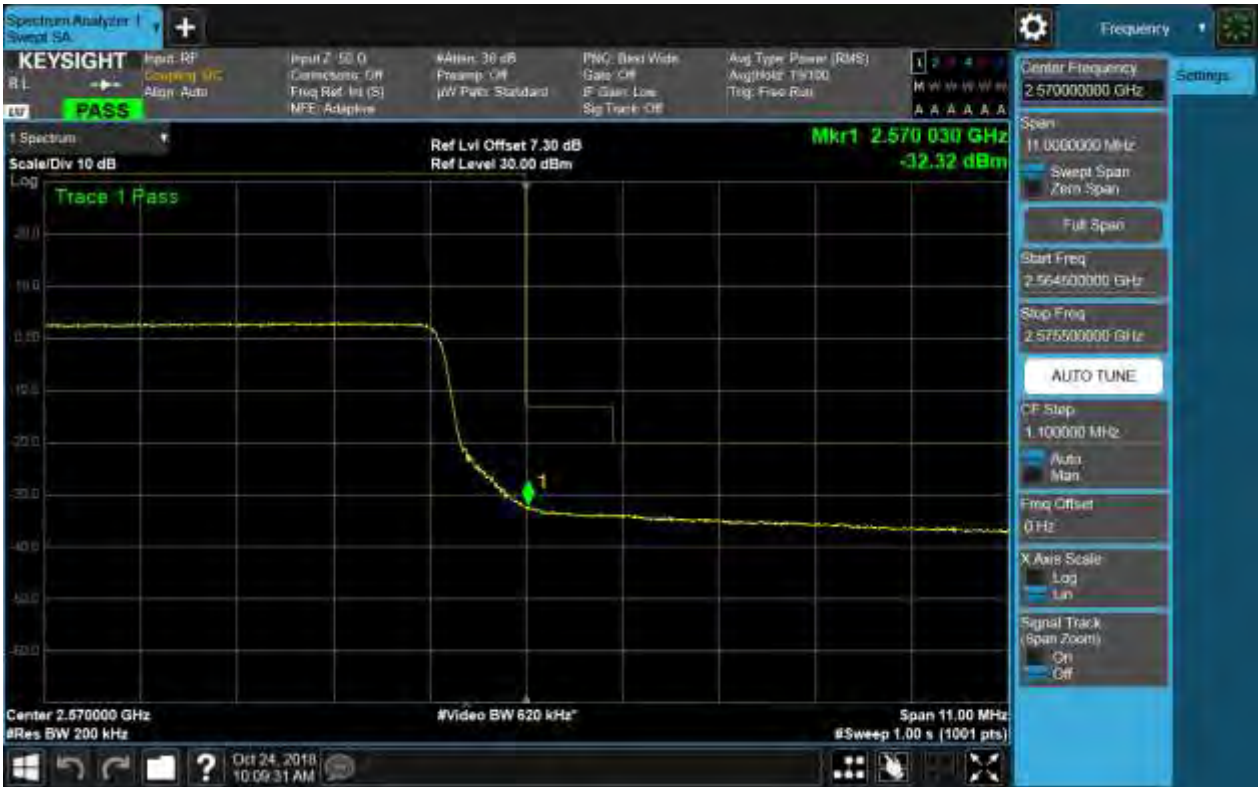
5.1.1.1.4.2.2 Test RB = RB1#99



5.1.1.1.4.2.3 Test RB = RB50#25



5.1.1.1.4.2.4 Test RB = RB100#0

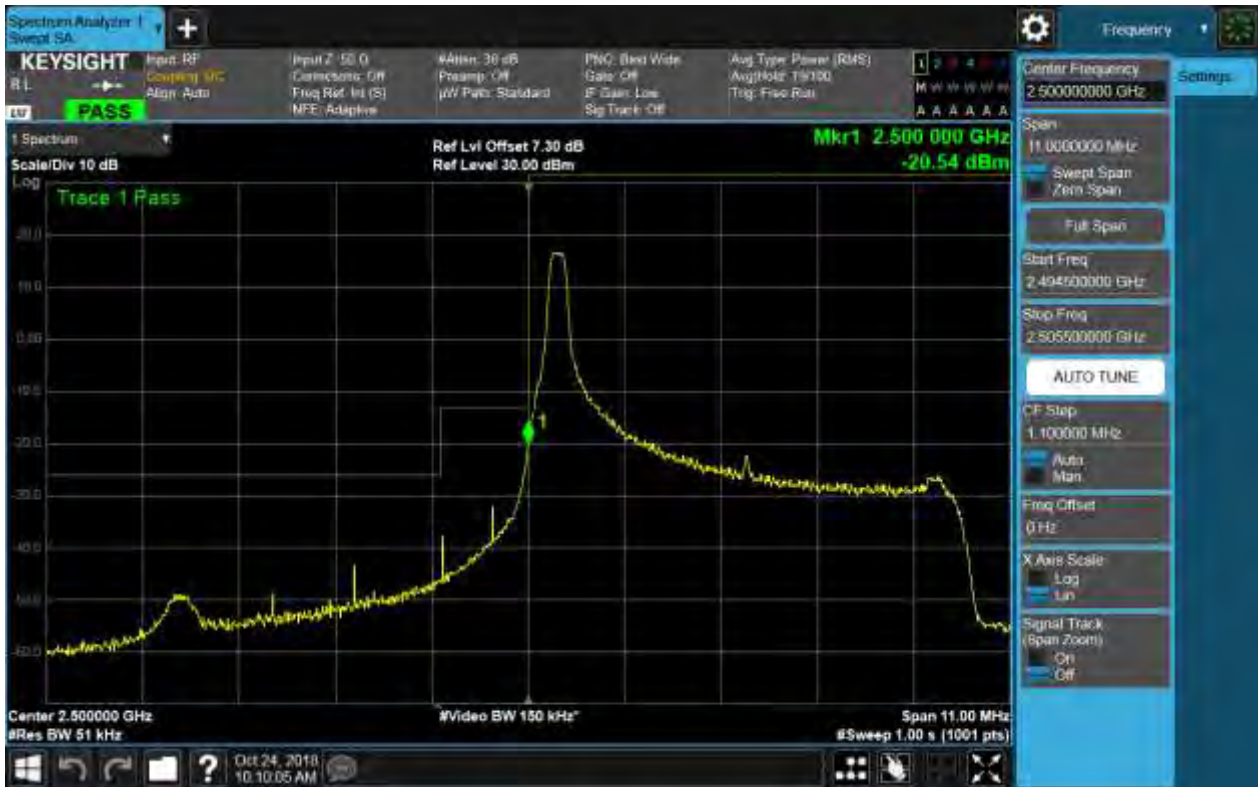


### 5.1.1.2 Test Mode = LTE/TM2

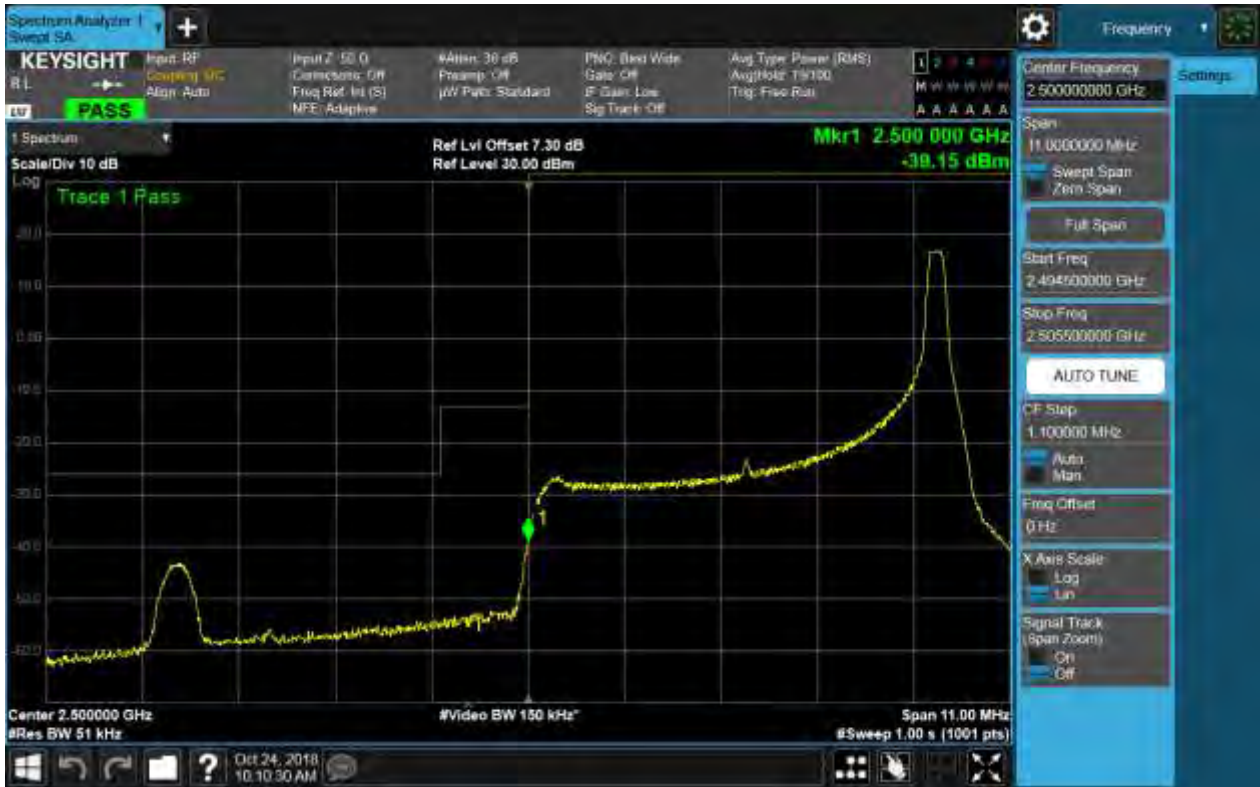
#### 5.1.1.2.1 Test Bandwidth = 5

##### 5.1.1.2.1.1 Test Channel = LCH

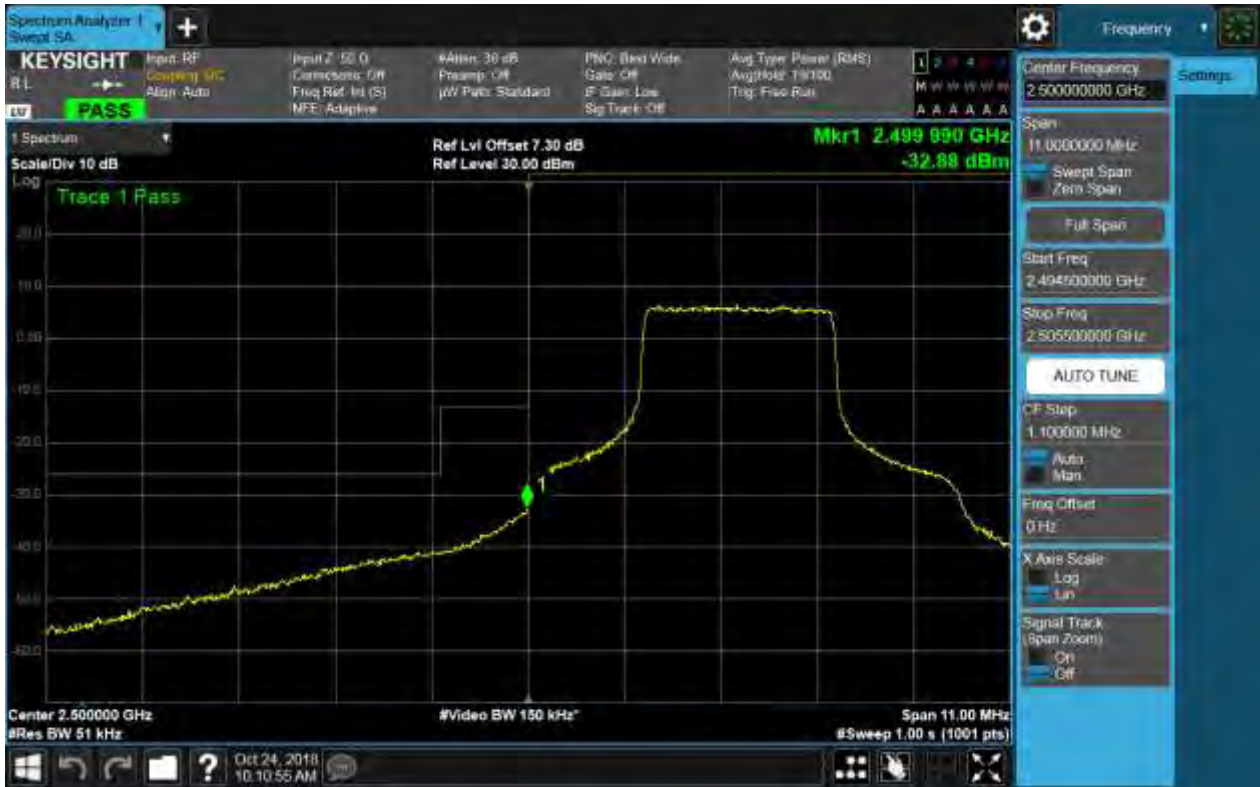
##### 5.1.1.2.1.1.1 Test RB = RB1#0



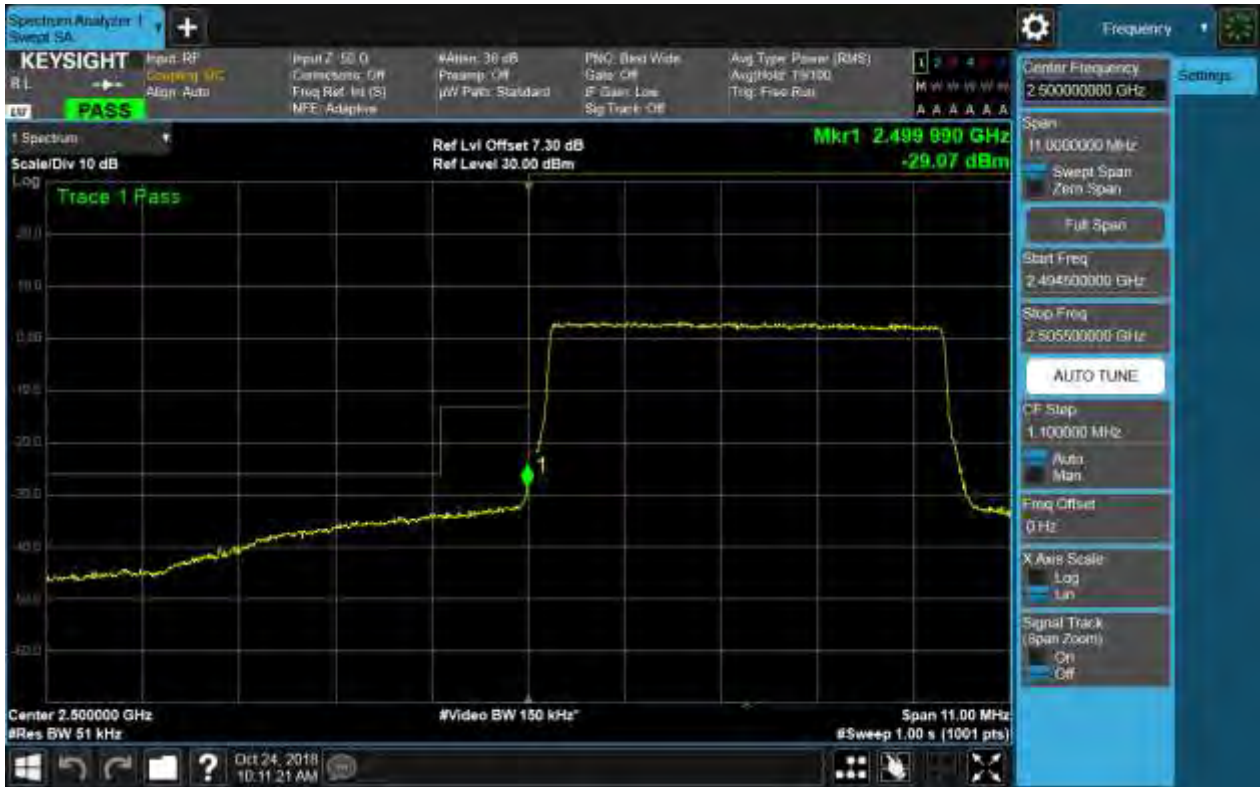
## 5.1.1.2.1.1.2 Test RB = RB1#24



5.1.1.2.1.1.3 Test RB = RB12#6



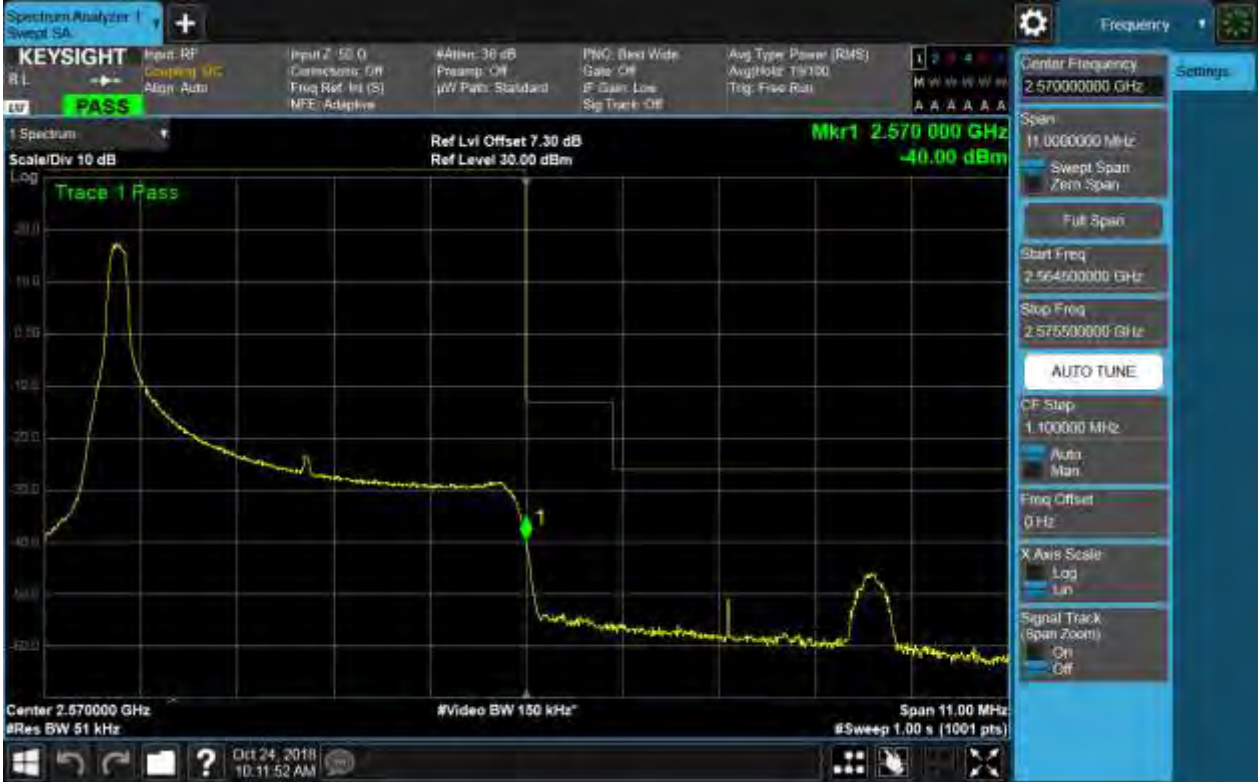
## 5.1.1.2.1.1.4 Test RB = RB25#0



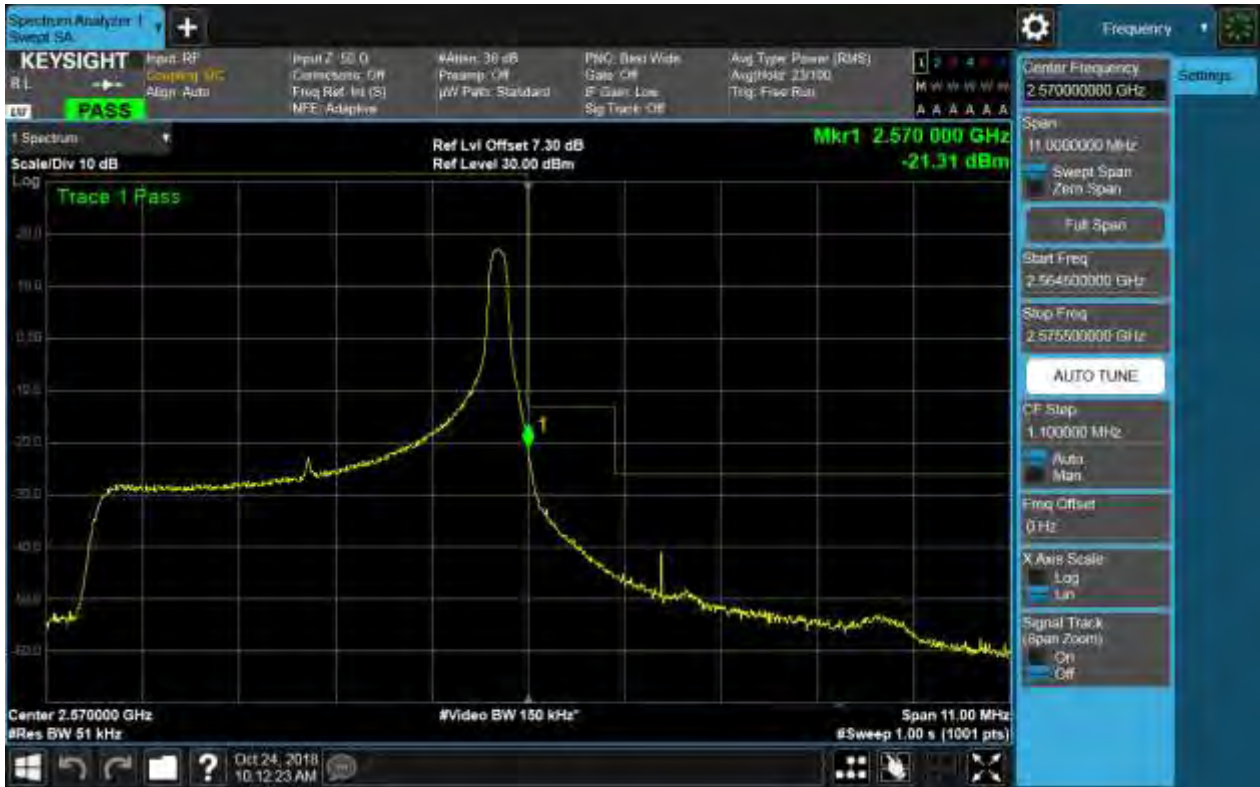


5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



5.1.1.2.1.2.2 Test RB = RB1#24



## 5.1.1.2.1.2.3 Test RB = RB12#6



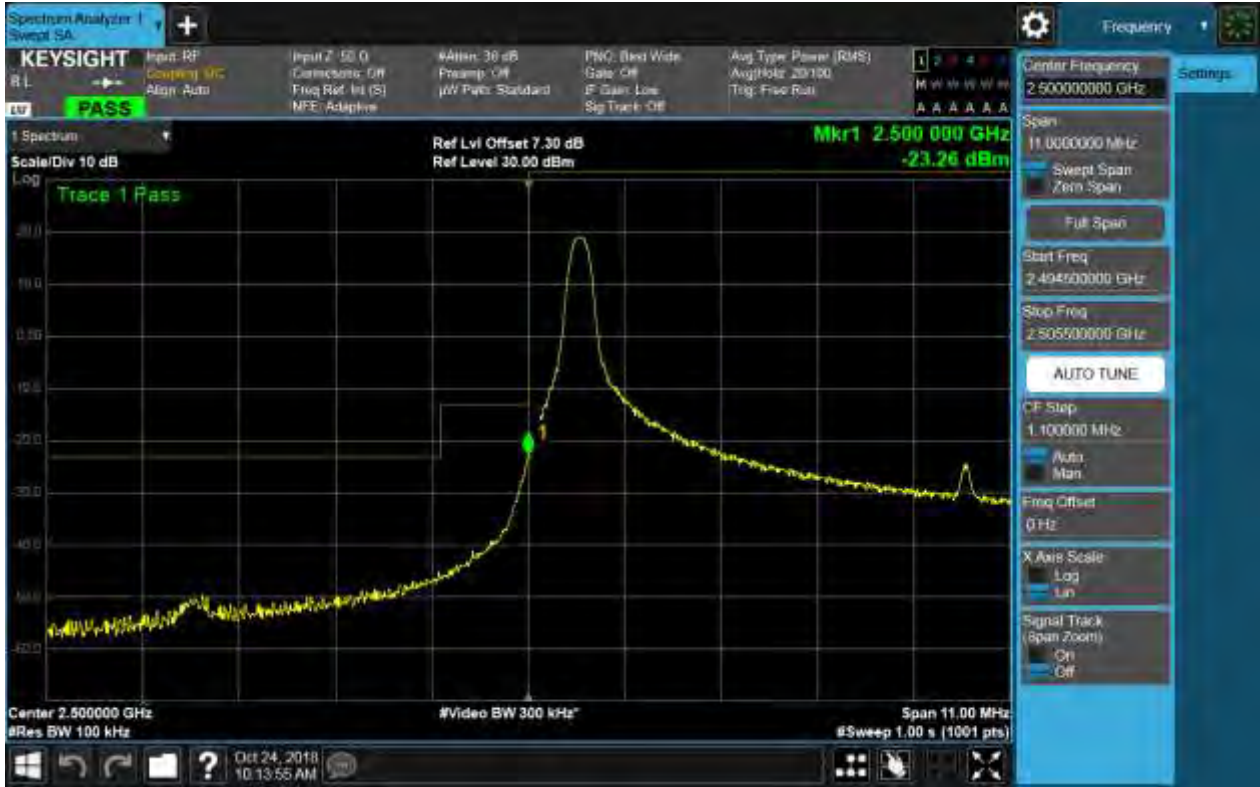
## 5.1.1.2.1.2.4 Test RB = RB25#0



### 5.1.1.2.2 Test Bandwidth = 10

#### 5.1.1.2.2.1 Test Channel = LCH

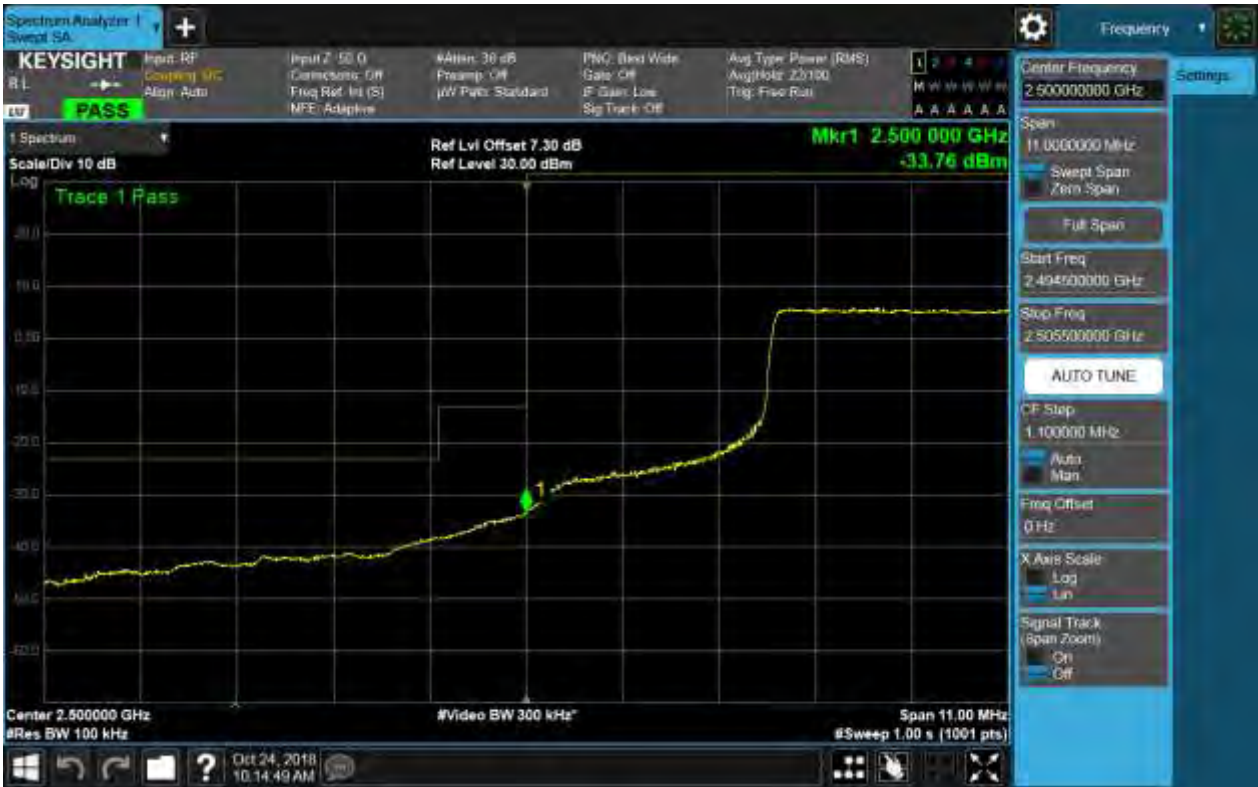
##### 5.1.1.2.2.1.1 Test RB = RB1#0



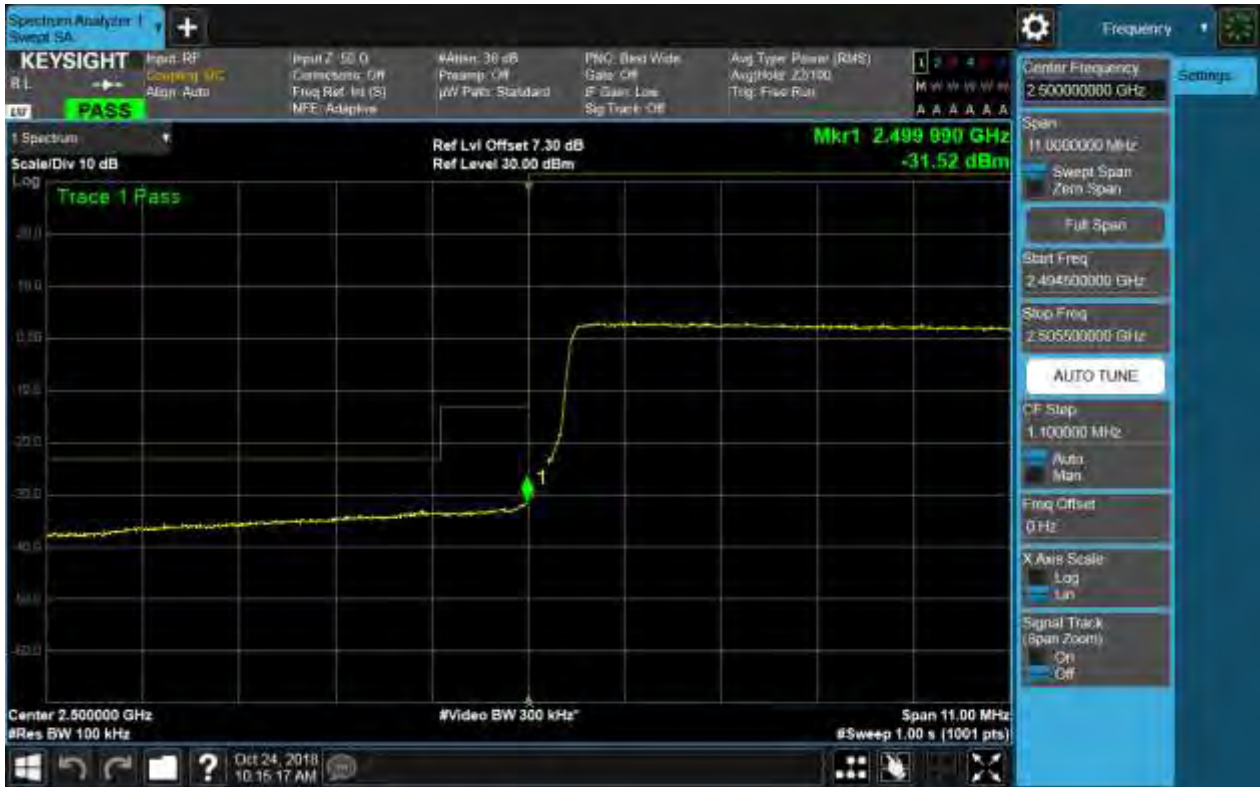
## 5.1.1.2.2.1.2 Test RB = RB1#49



5.1.1.2.2.1.3 Test RB = RB25#13



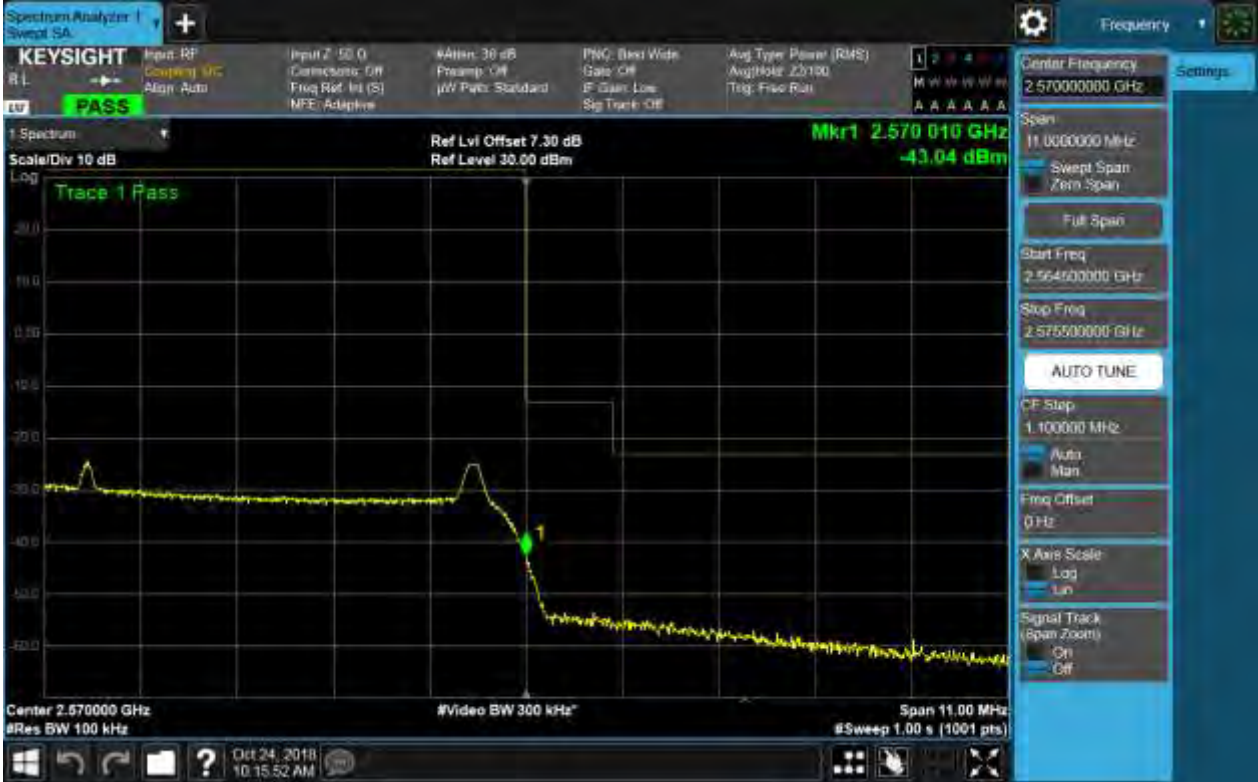
5.1.1.2.2.1.4 Test RB = RB50#0



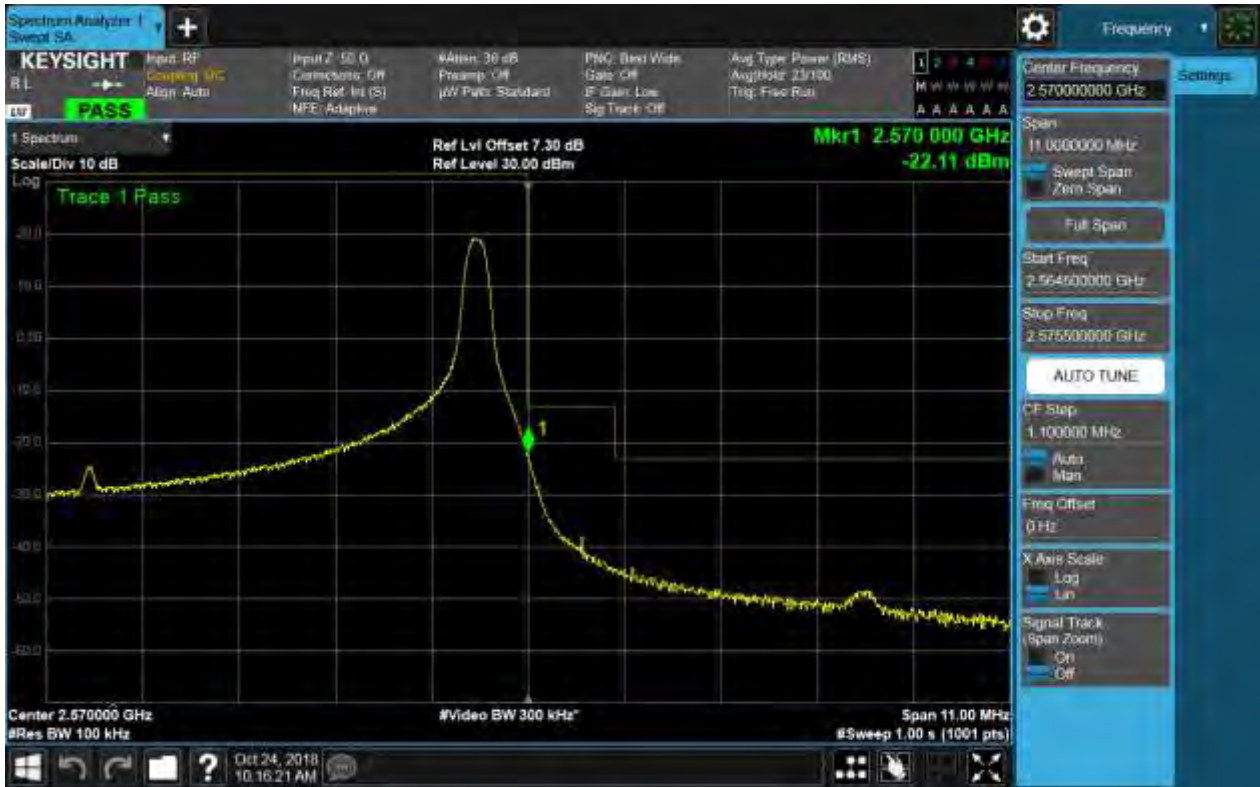


5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB = RB1#0



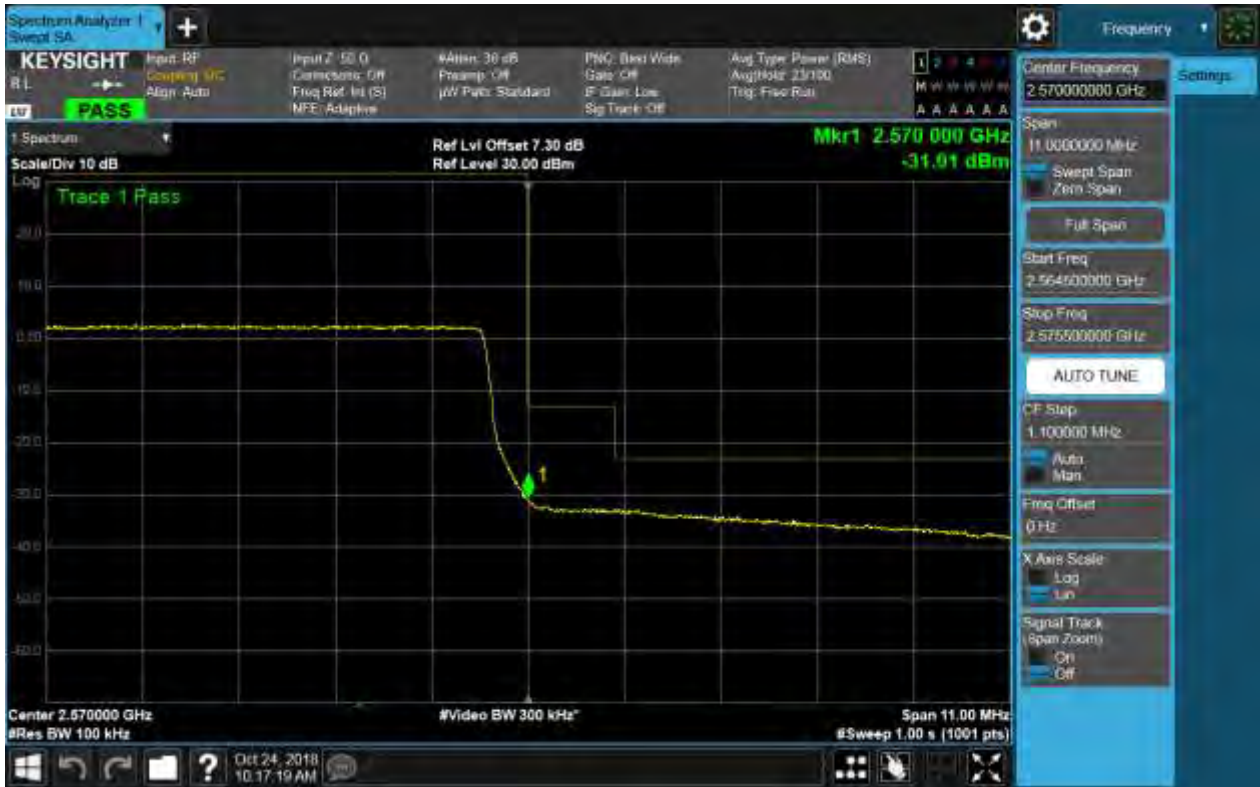
## 5.1.1.2.2.2 Test RB = RB1#49



## 5.1.1.2.2.3 Test RB = RB25#13



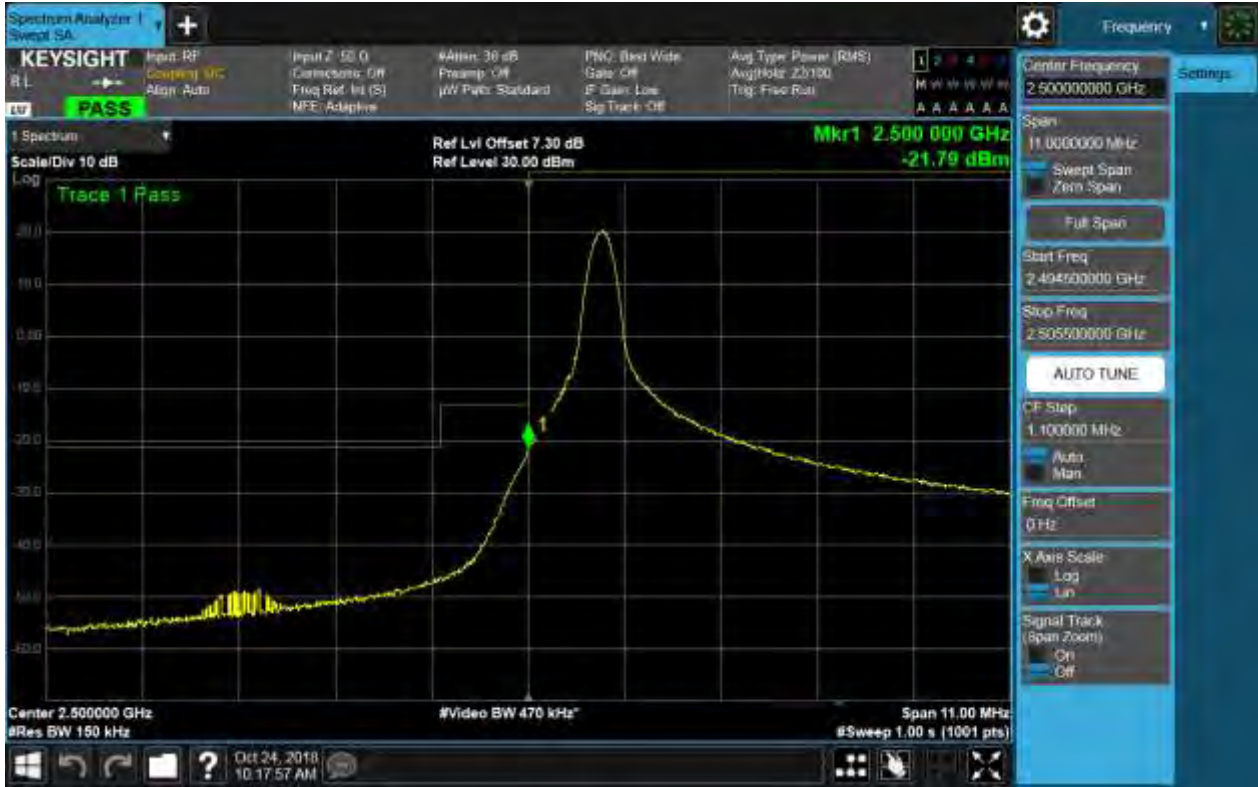
## 5.1.1.2.2.4 Test RB = RB50#0



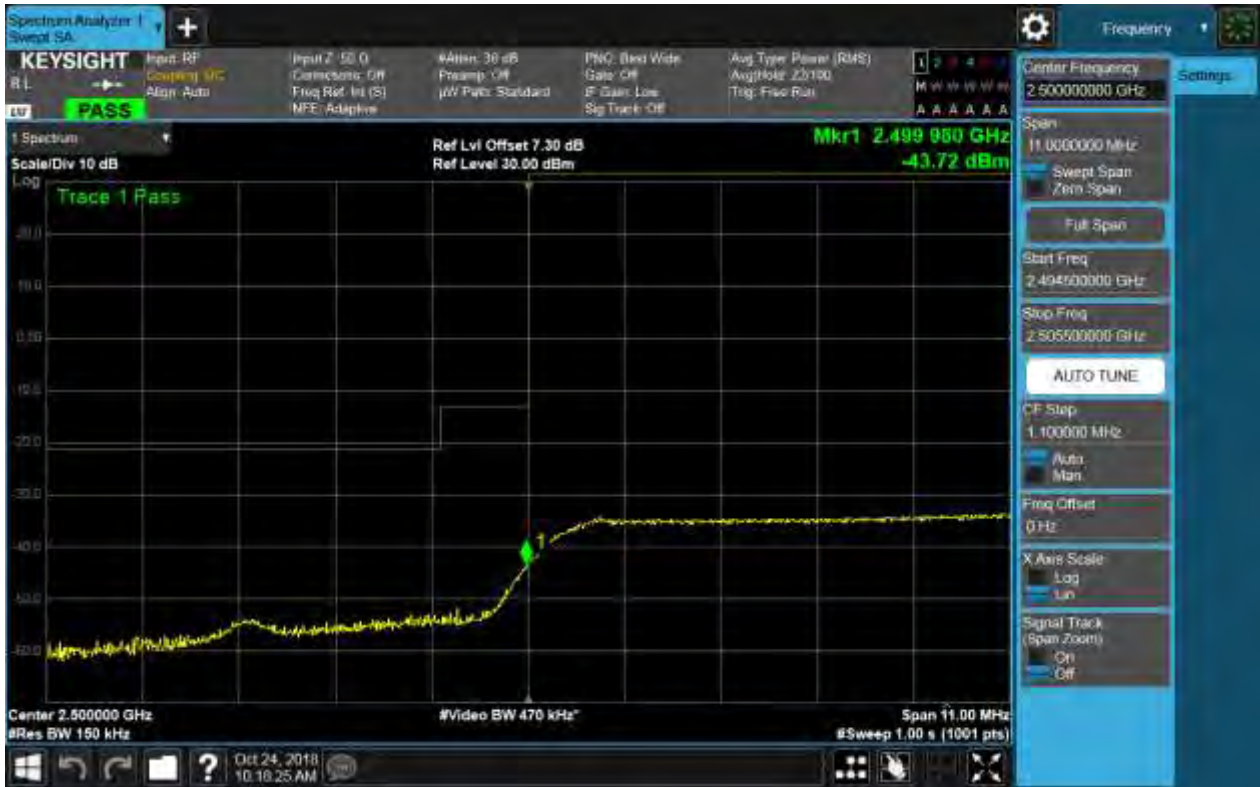
### 5.1.1.2.3 Test Bandwidth = 15

#### 5.1.1.2.3.1 Test Channel = LCH

##### 5.1.1.2.3.1.1 Test RB = RB1#0



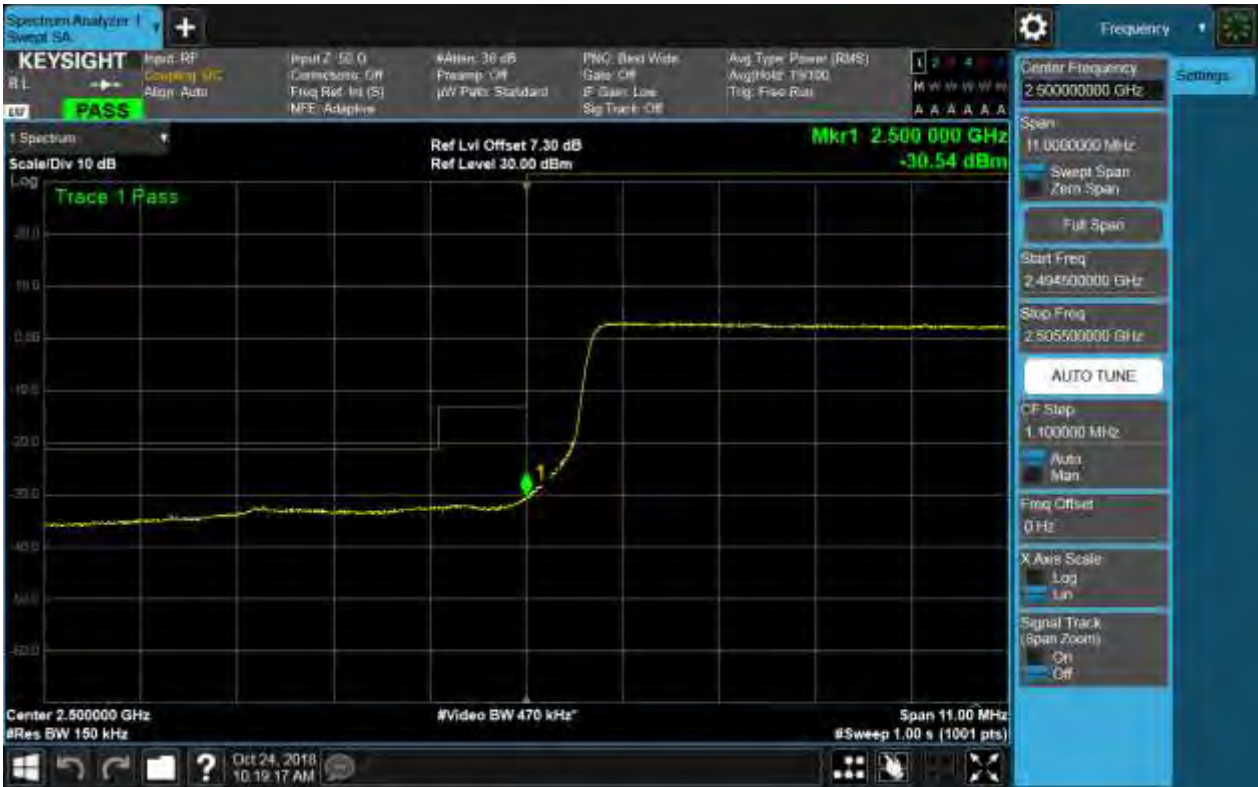
## 5.1.1.2.3.1.2 Test RB = RB1#74



## 5.1.1.2.3.1.3 Test RB = RB38#19



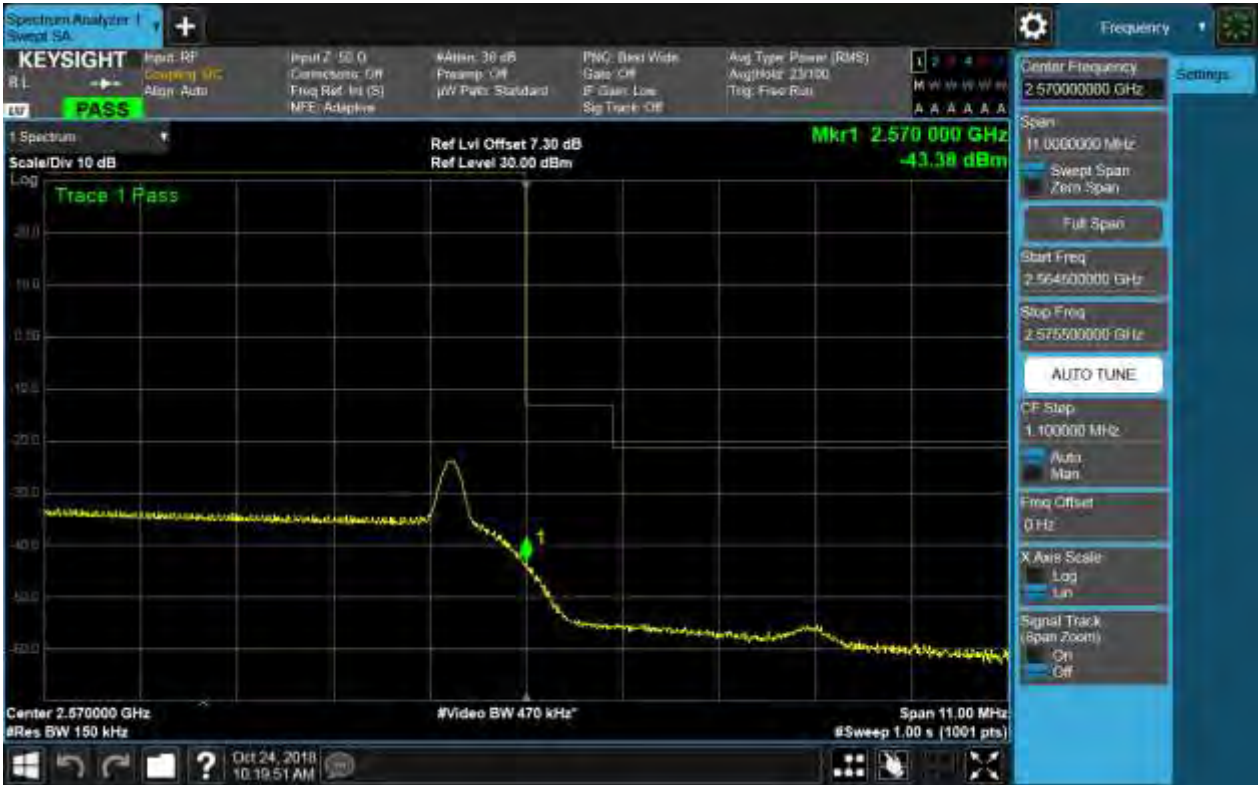
5.1.1.2.3.1.4 Test RB = RB75#0



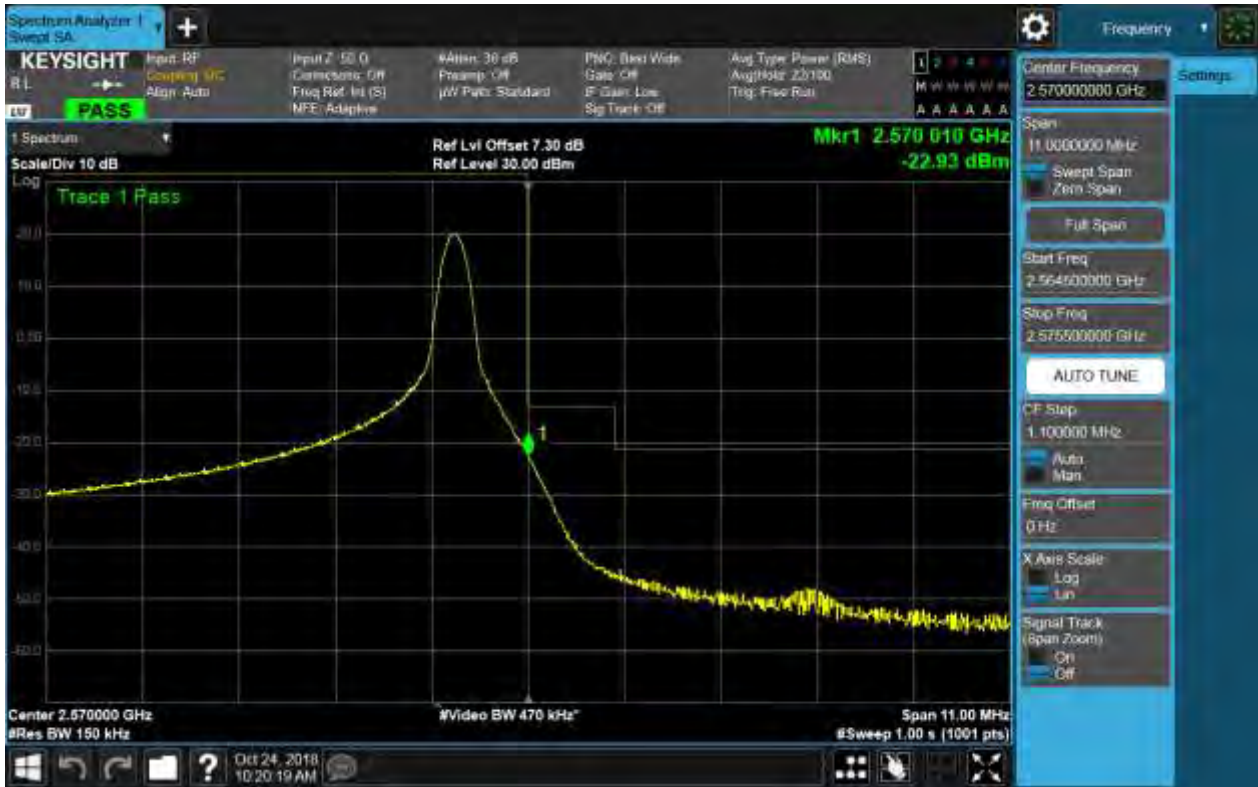


5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



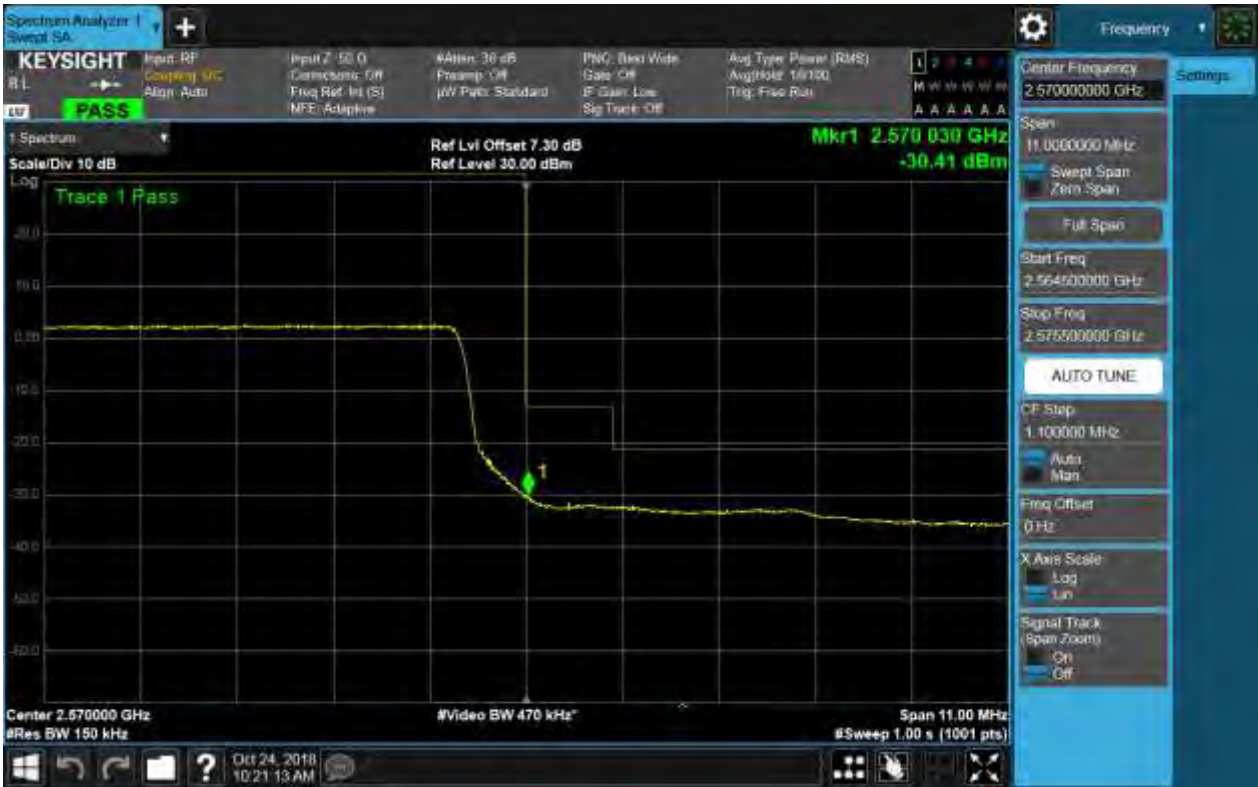
## 5.1.1.2.3.2.2 Test RB = RB1#74



5.1.1.2.3.2.3 Test RB = RB38#19



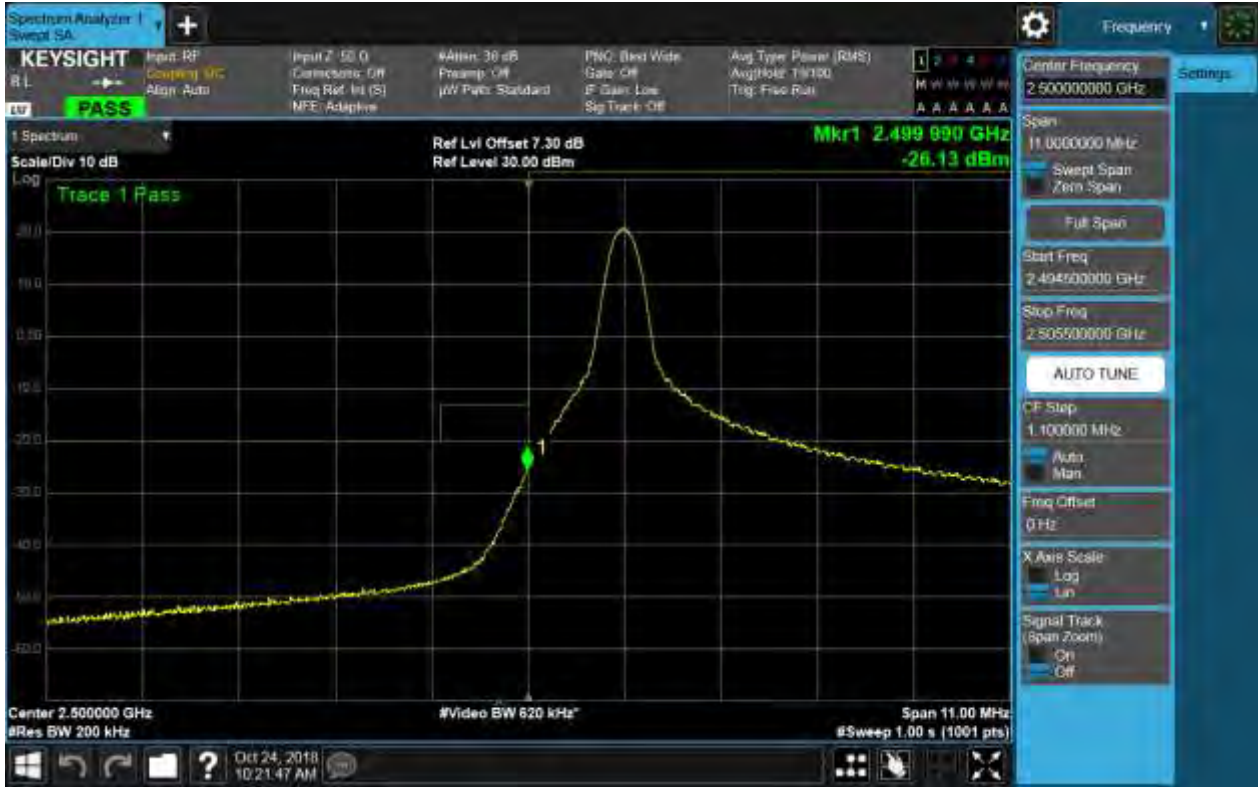
5.1.1.2.3.2.4 Test RB = RB75#0



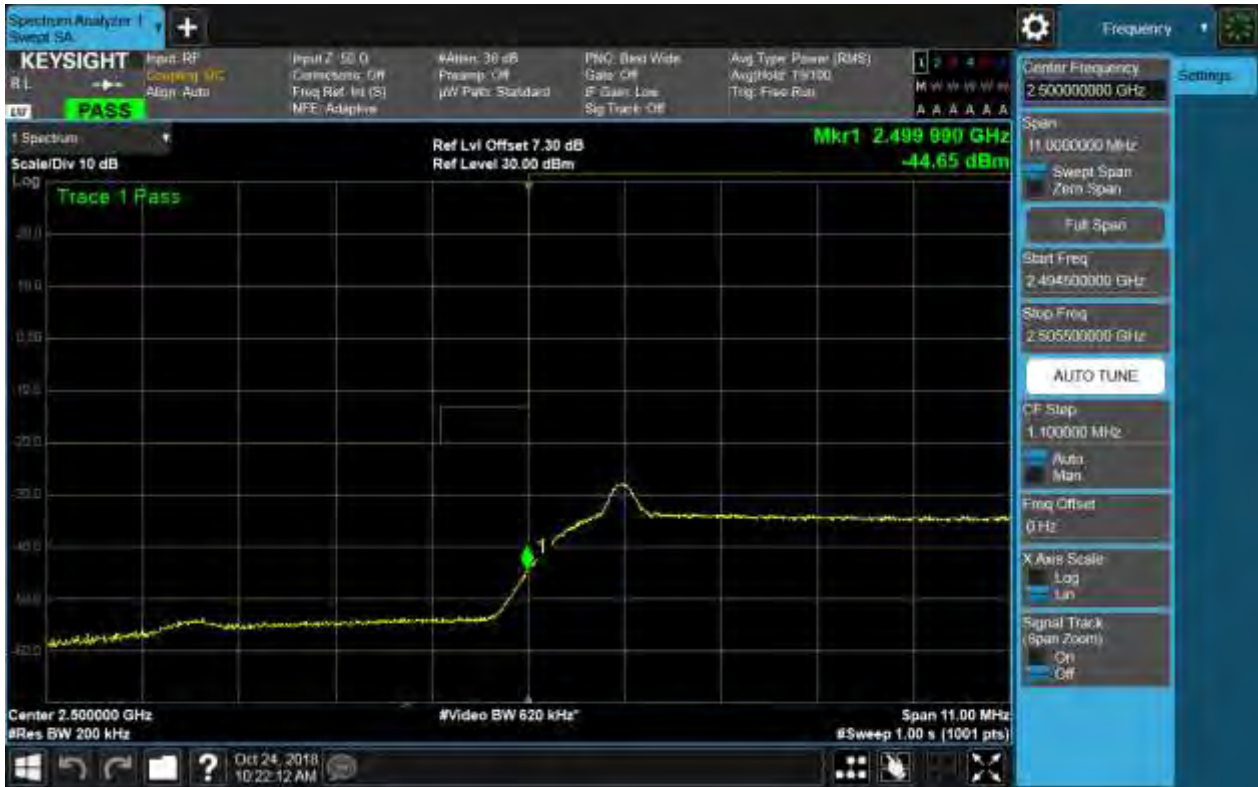
#### 5.1.1.2.4 Test Bandwidth = 20

##### 5.1.1.2.4.1 Test Channel = LCH

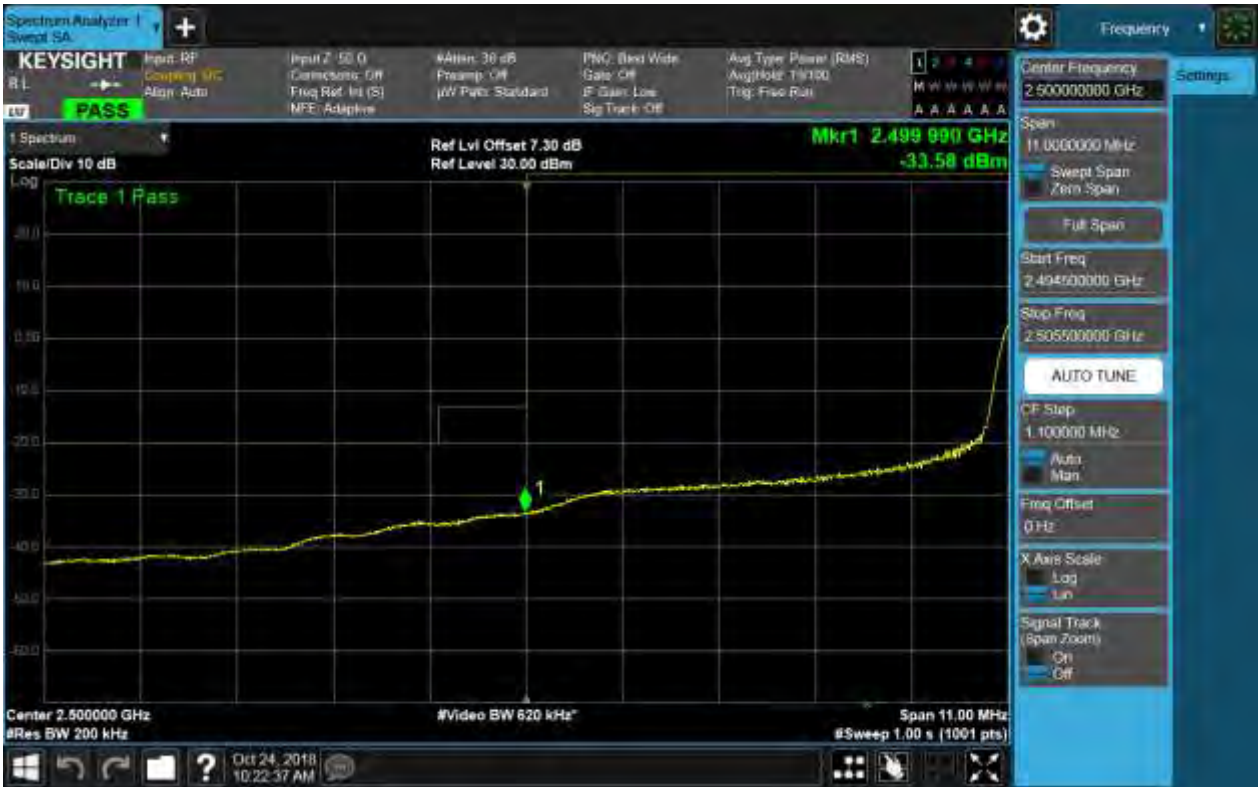
##### 5.1.1.2.4.1.1 Test RB = RB1#0



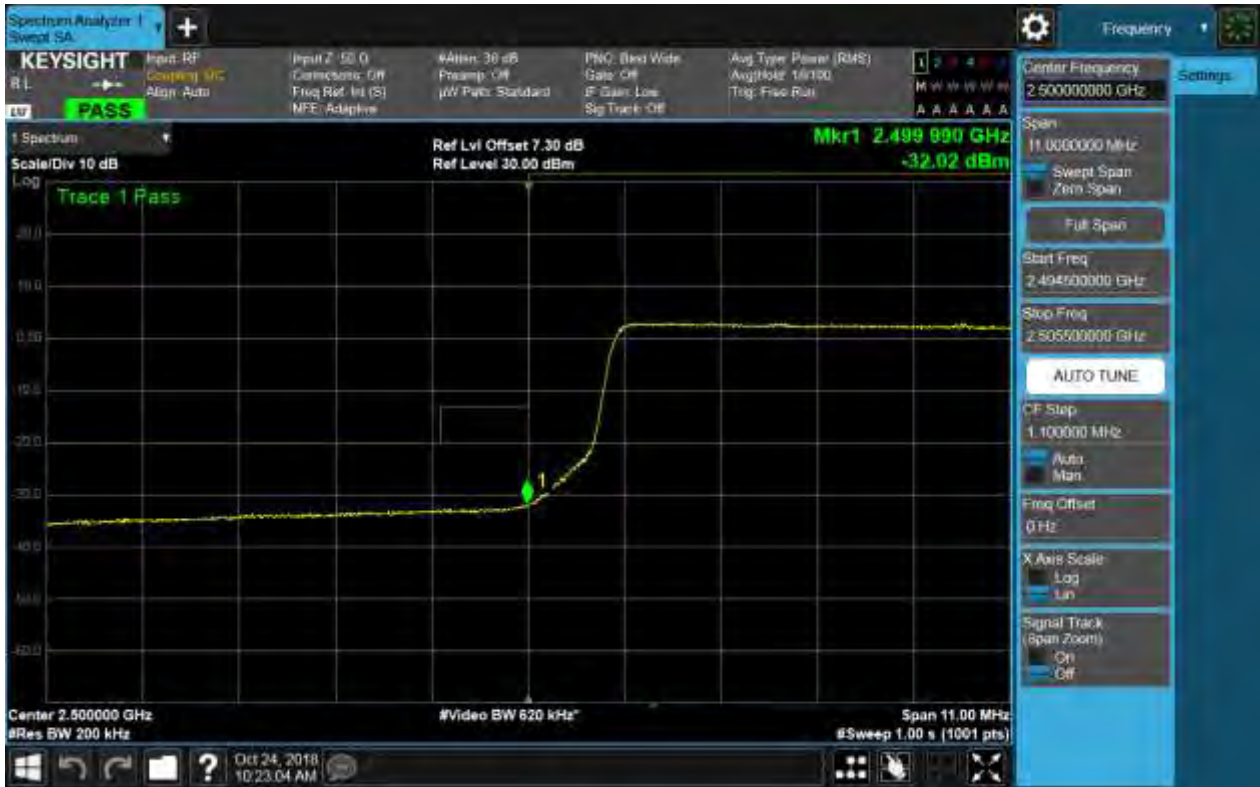
## 5.1.1.2.4.1.2 Test RB = RB1#99



5.1.1.2.4.1.3 Test RB = RB50#25



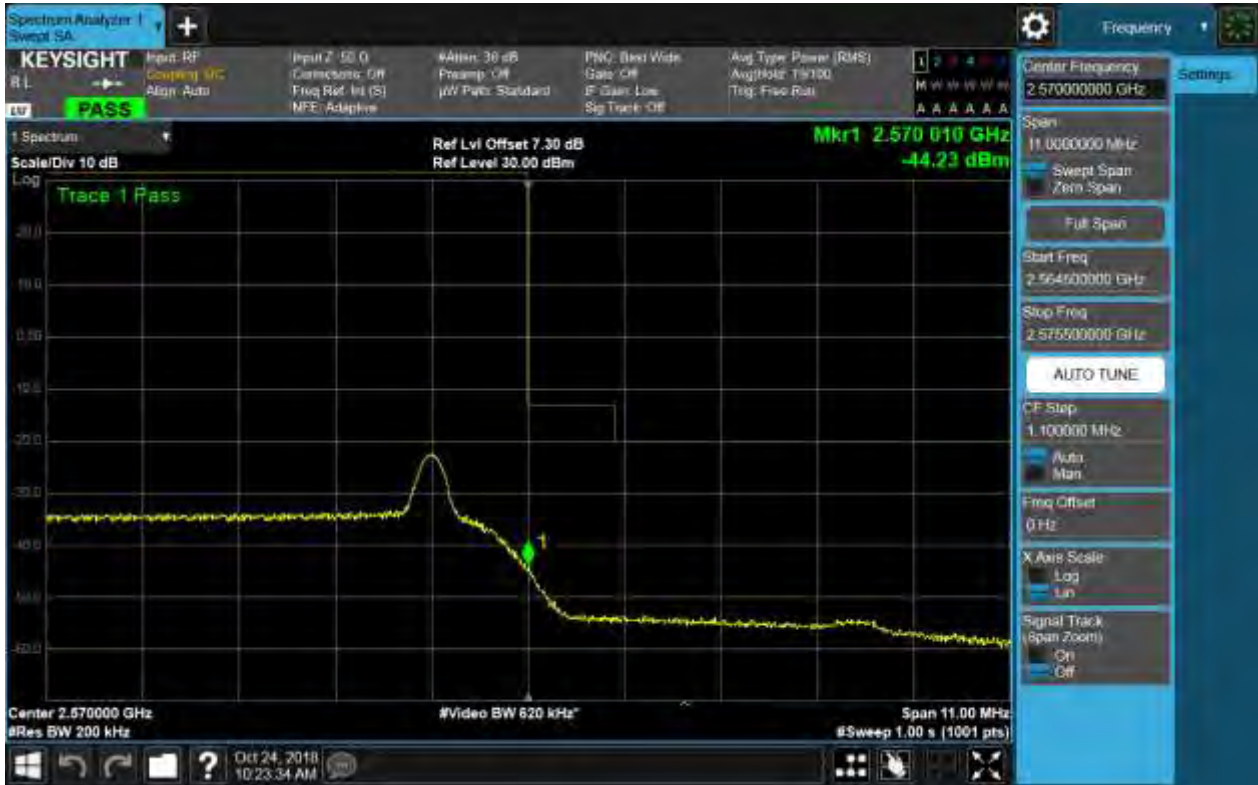
## 5.1.1.2.4.1.4 Test RB = RB100#0



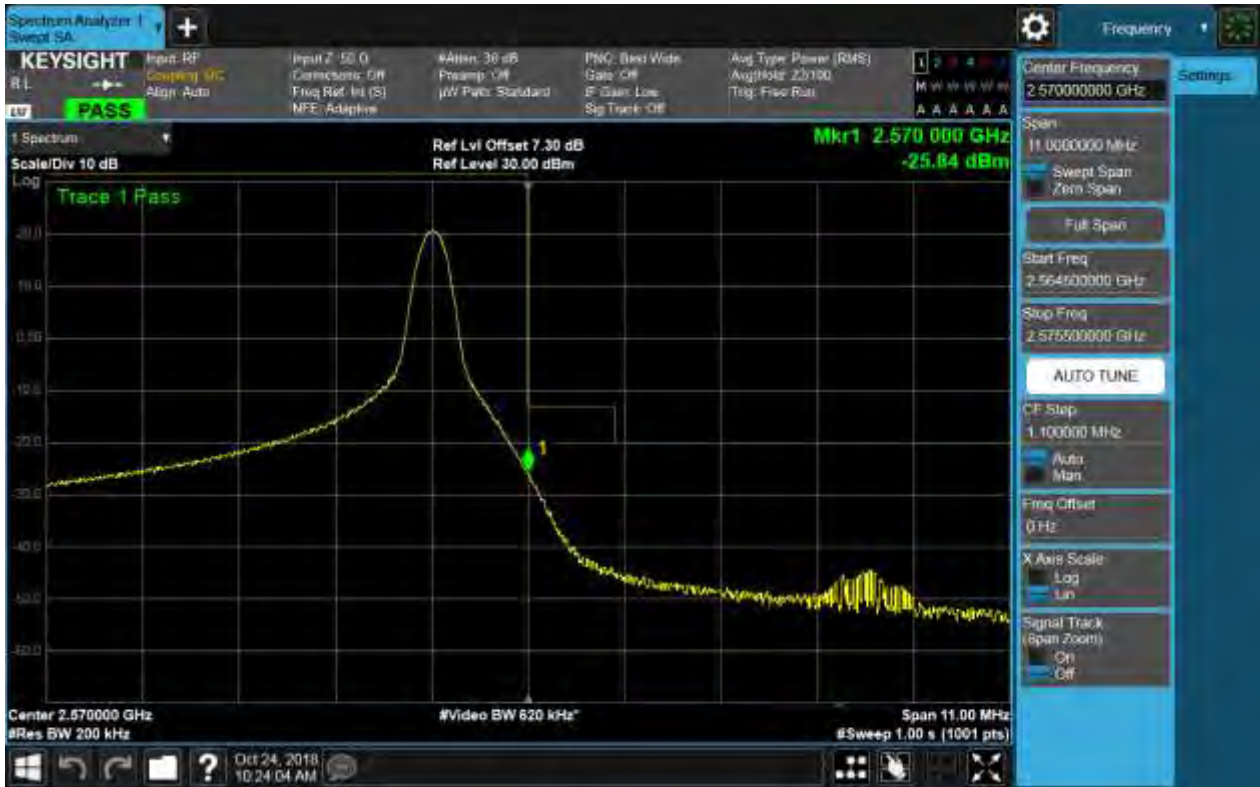


## 5.1.1.2.4.2 Test Channel = HCH

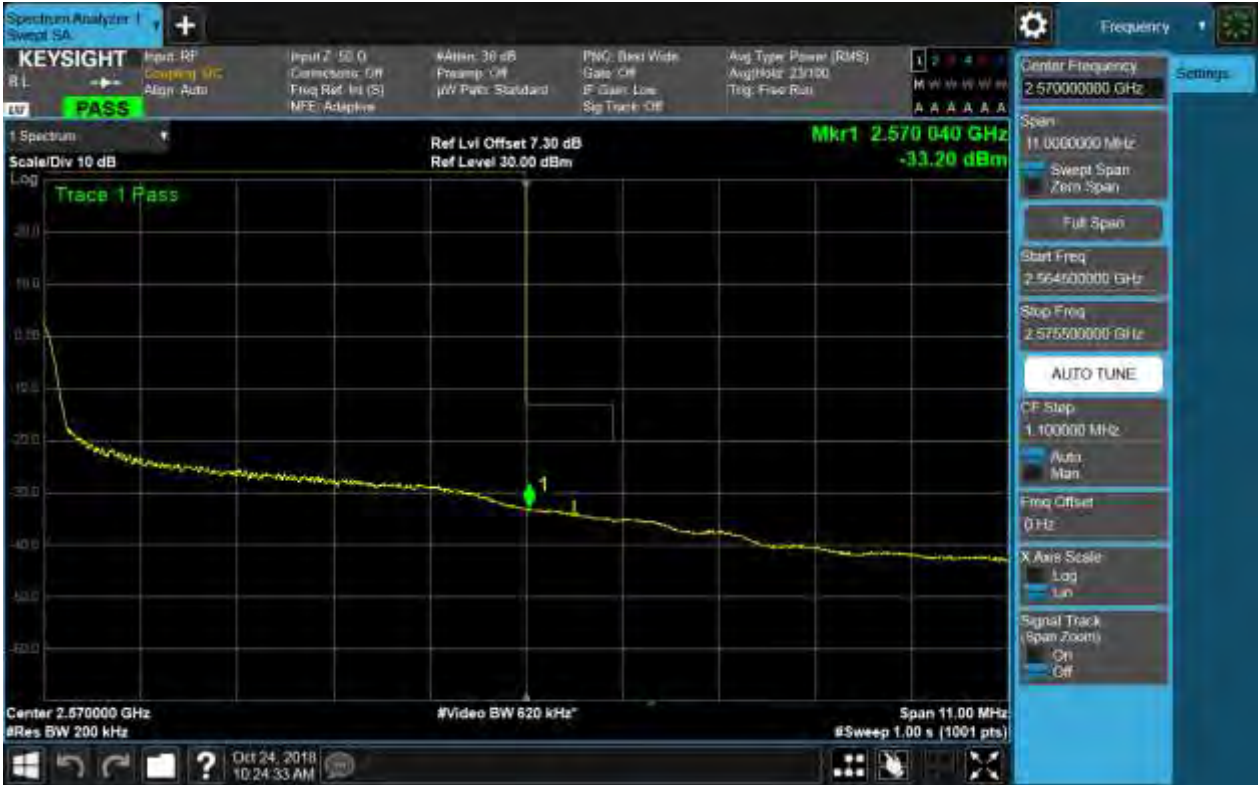
## 5.1.1.2.4.2.1 Test RB = RB1#0



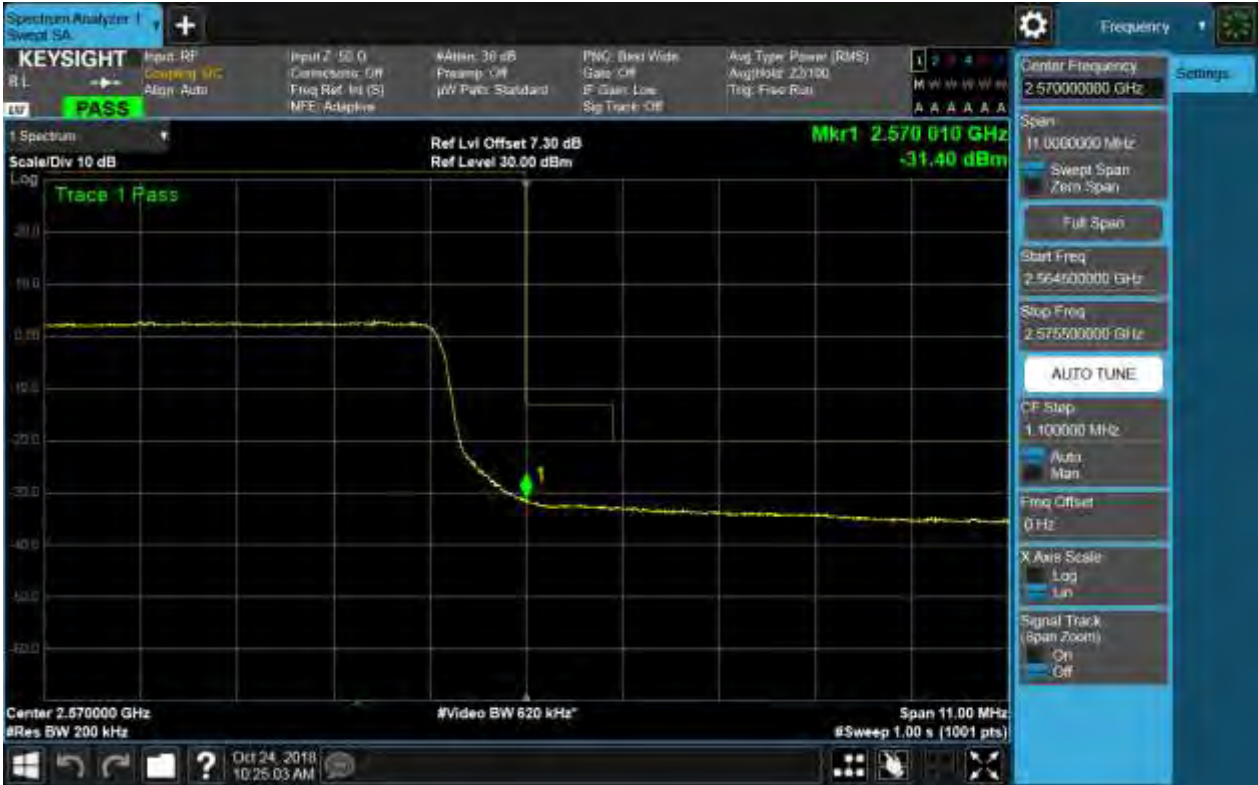
## 5.1.1.2.4.2.2 Test RB = RB1#99



5.1.1.2.4.2.3 Test RB = RB50#25



5.1.1.2.4.2.4 Test RB = RB100#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 = BAND7

##### 6.1.1.1 Test Mode = LTE/TM1

##### 6.1.1.1.1 Test Bandwidth = 5

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0







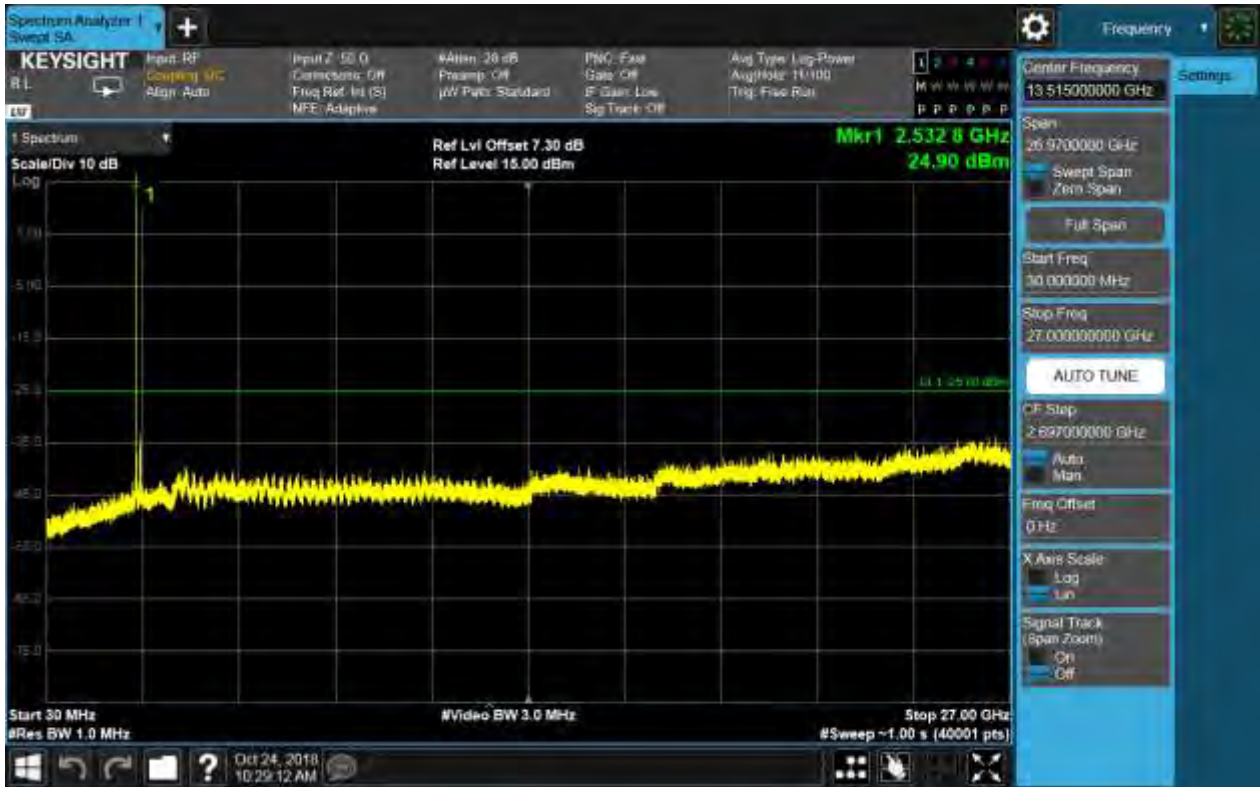
## 6.1.1.1.1.2 Test Channel = MCH

## 6.1.1.1.1.2.1 Test RB = RB1#0





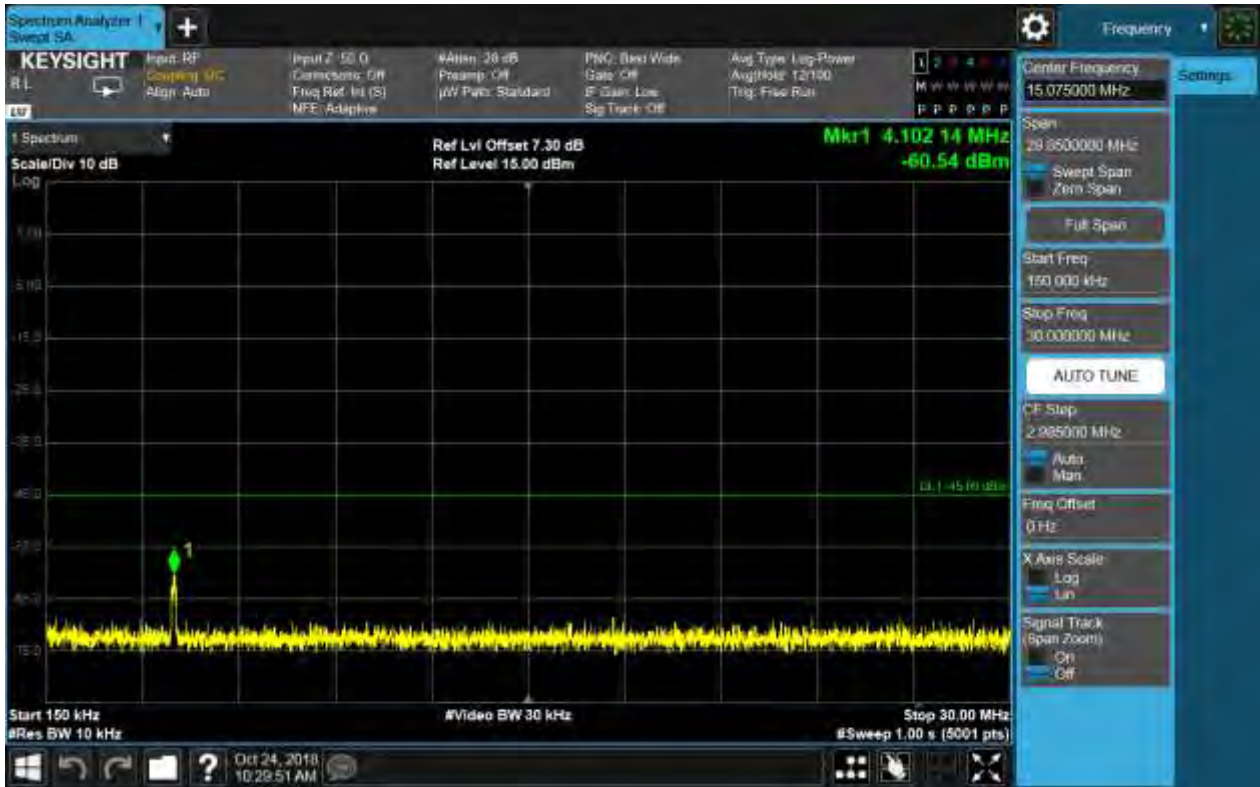


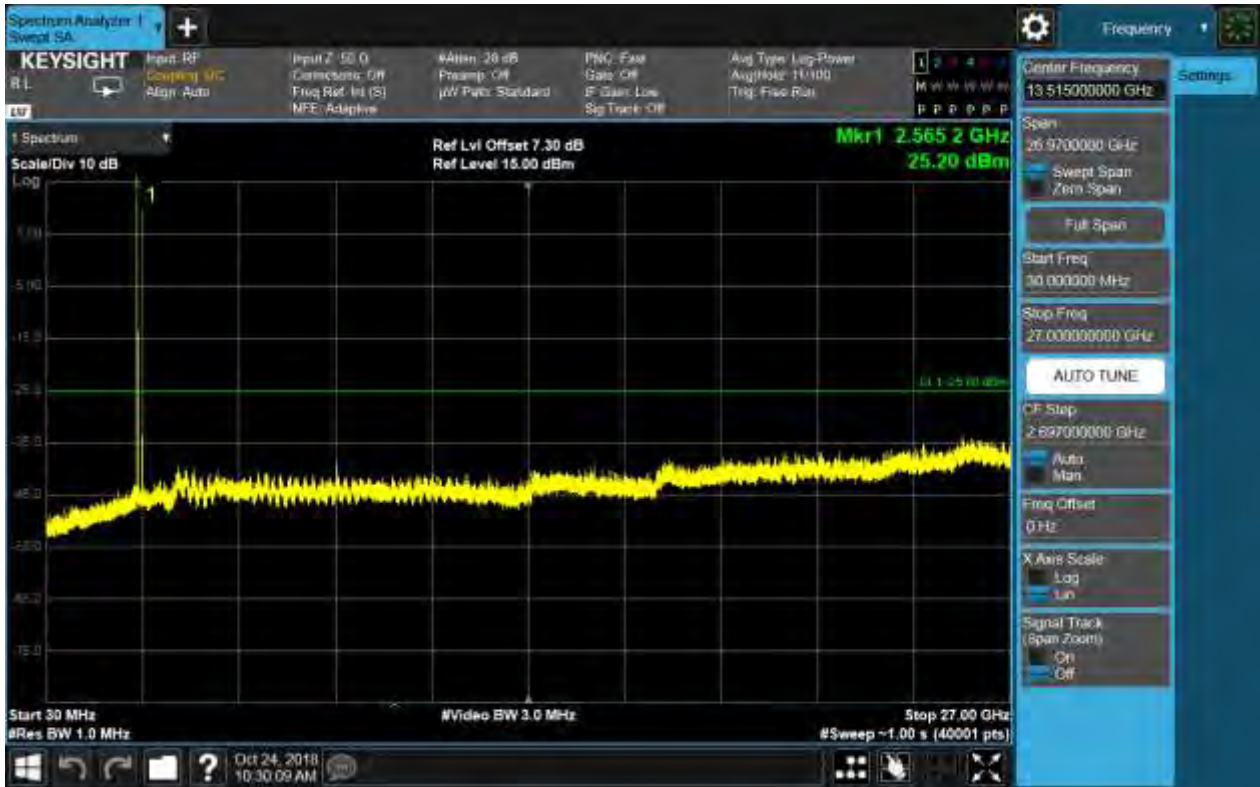


### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0







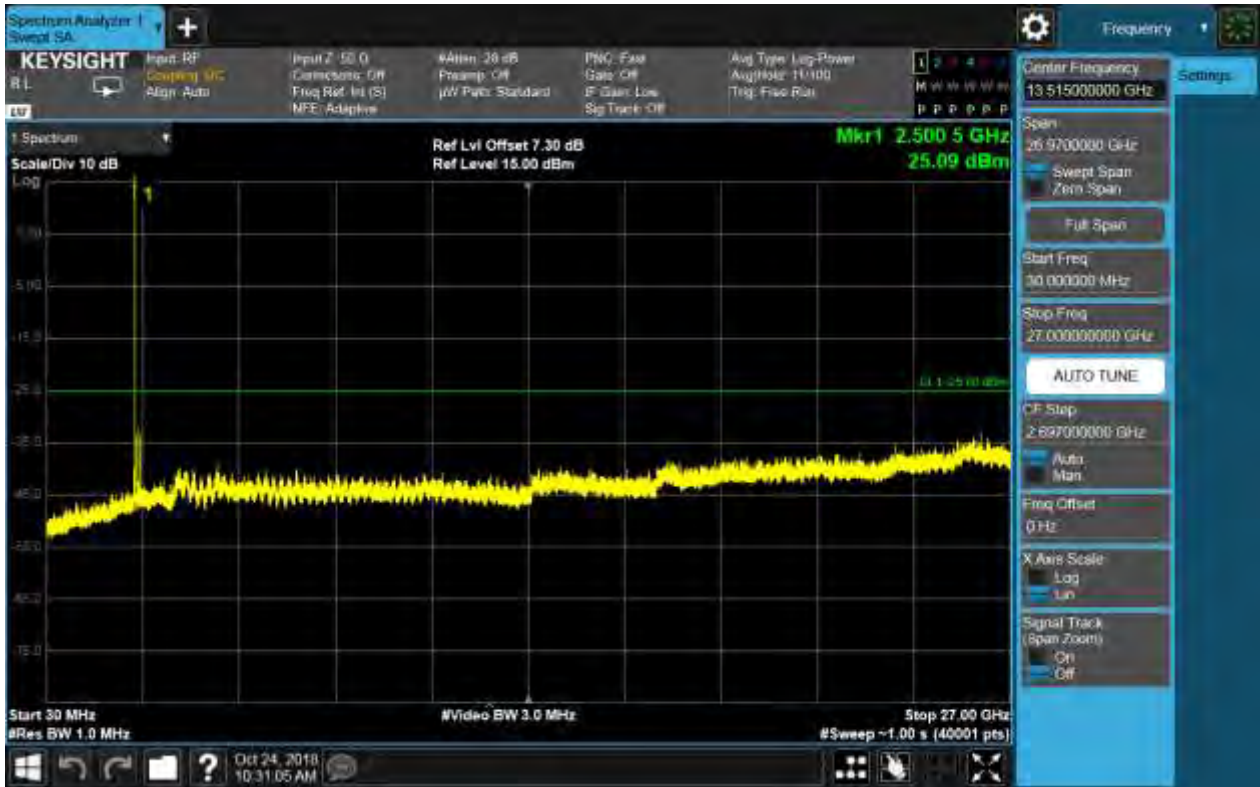
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0









### 6.1.1.1.2.2 Test Channel = MCH

#### 6.1.1.1.2.2.1 Test RB = RB1#0





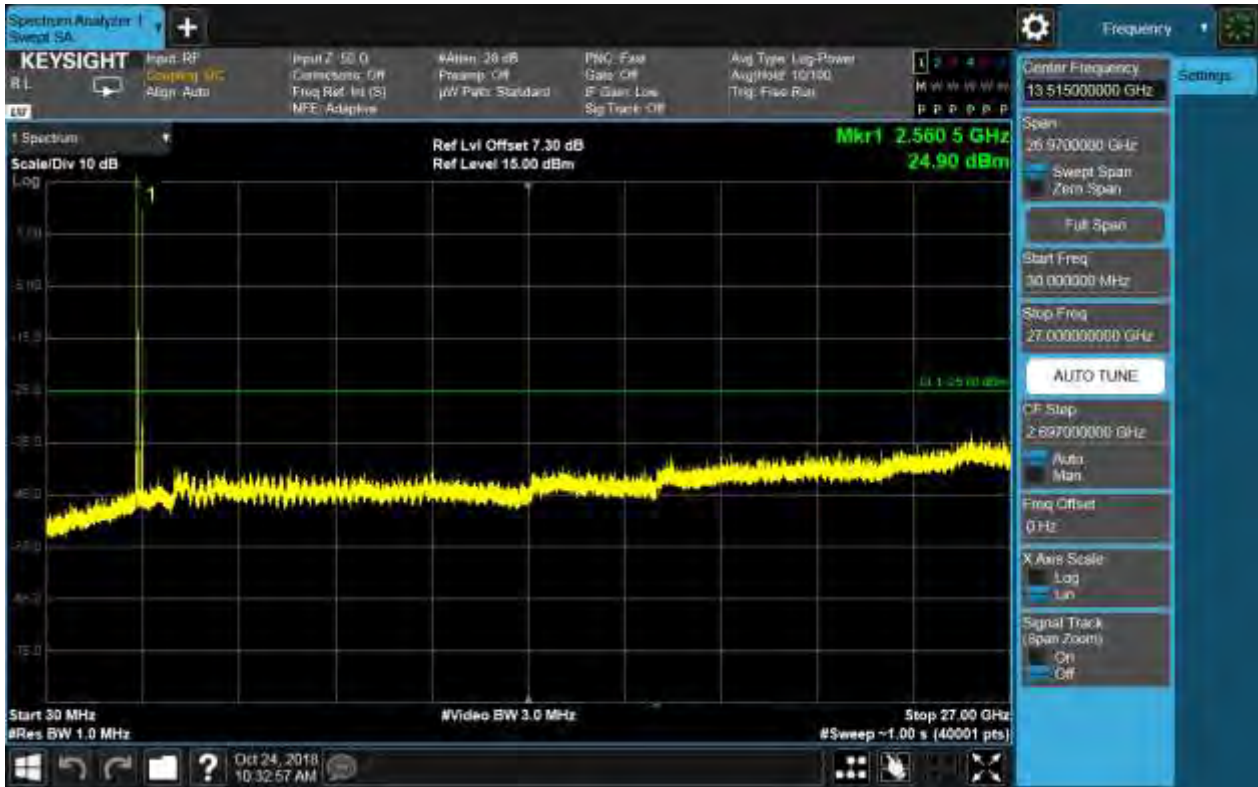


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







### 6.1.1.1.3 Test Bandwidth = 15

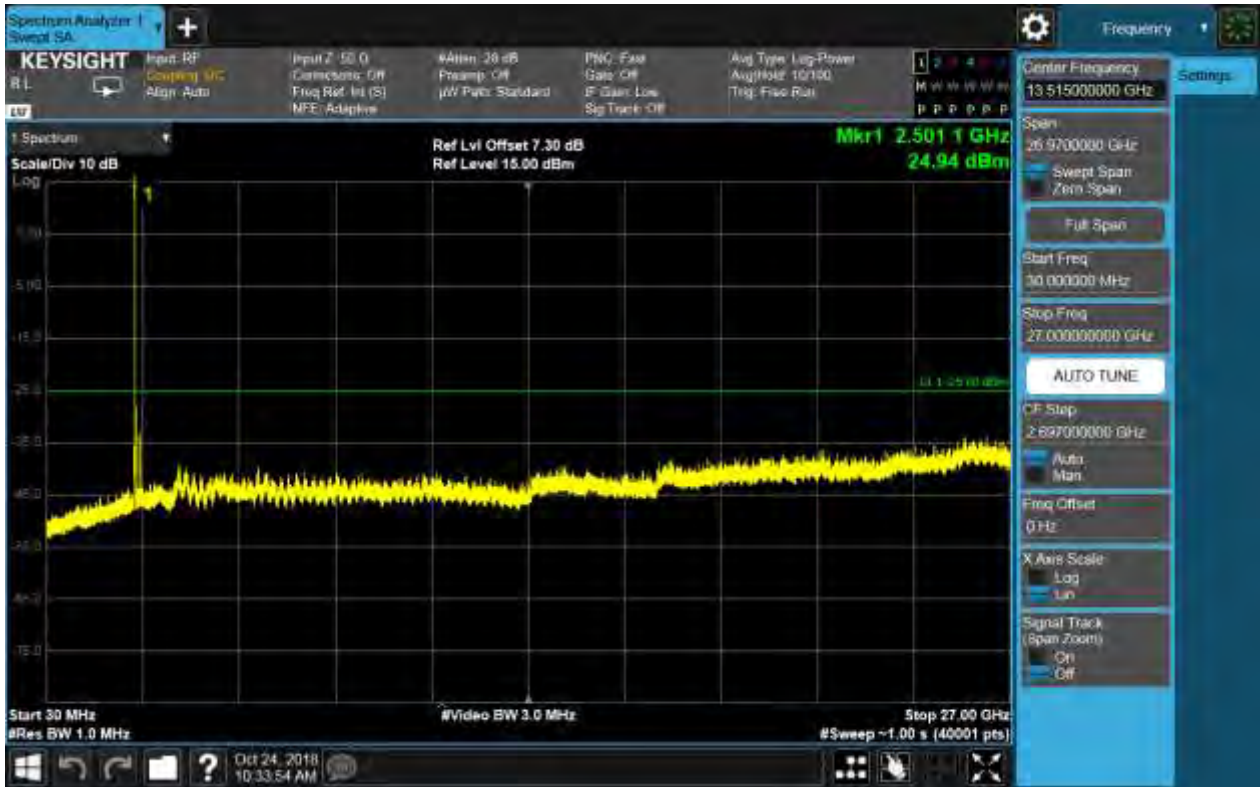
#### 6.1.1.1.3.1 Test Channel = LCH

##### 6.1.1.1.3.1.1 Test RB = RB1#0









### 6.1.1.1.3.2 Test Channel = MCH

#### 6.1.1.1.3.2.1 Test RB = RB1#0





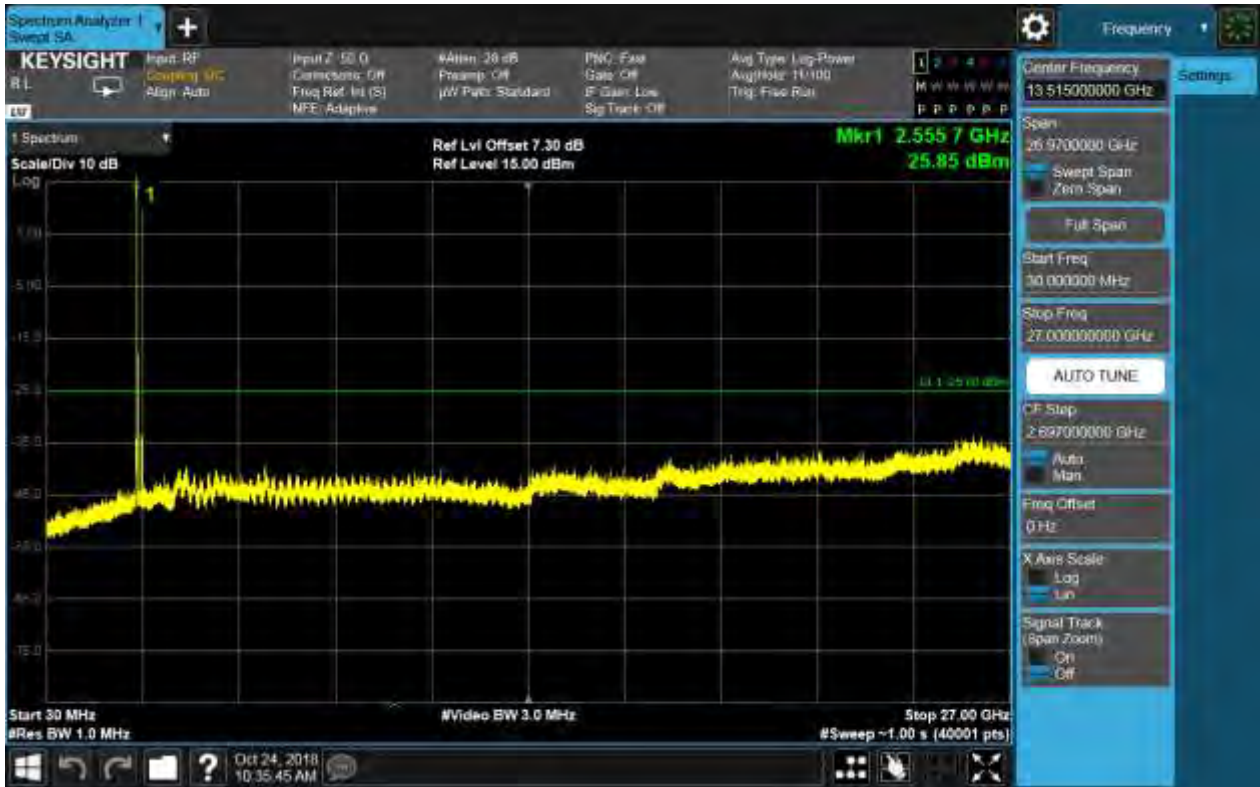


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







#### 6.1.1.1.4 Test Bandwidth = 20

##### 6.1.1.1.4.1 Test Channel = LCH

##### 6.1.1.1.4.1.1 Test RB = RB1#0







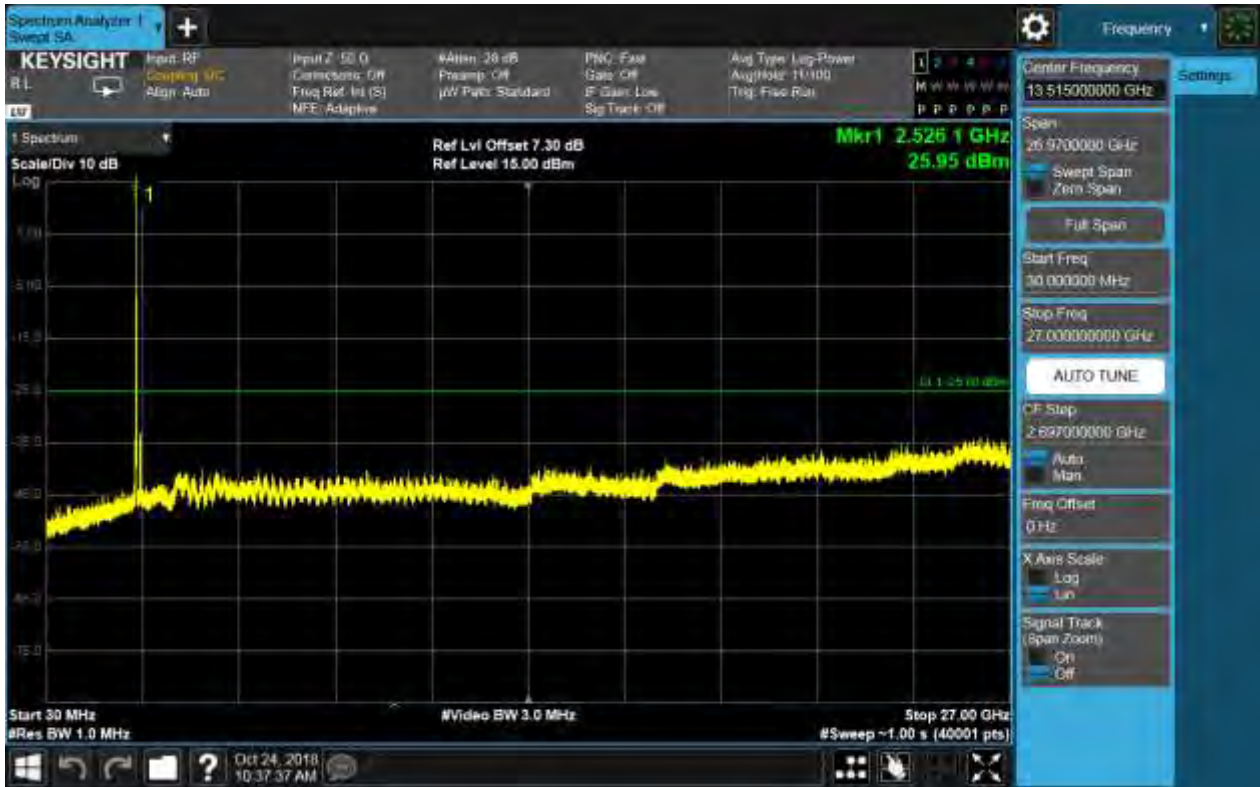


### 6.1.1.1.4.2 Test Channel = MCH

#### 6.1.1.1.4.2.1 Test RB = RB1#0





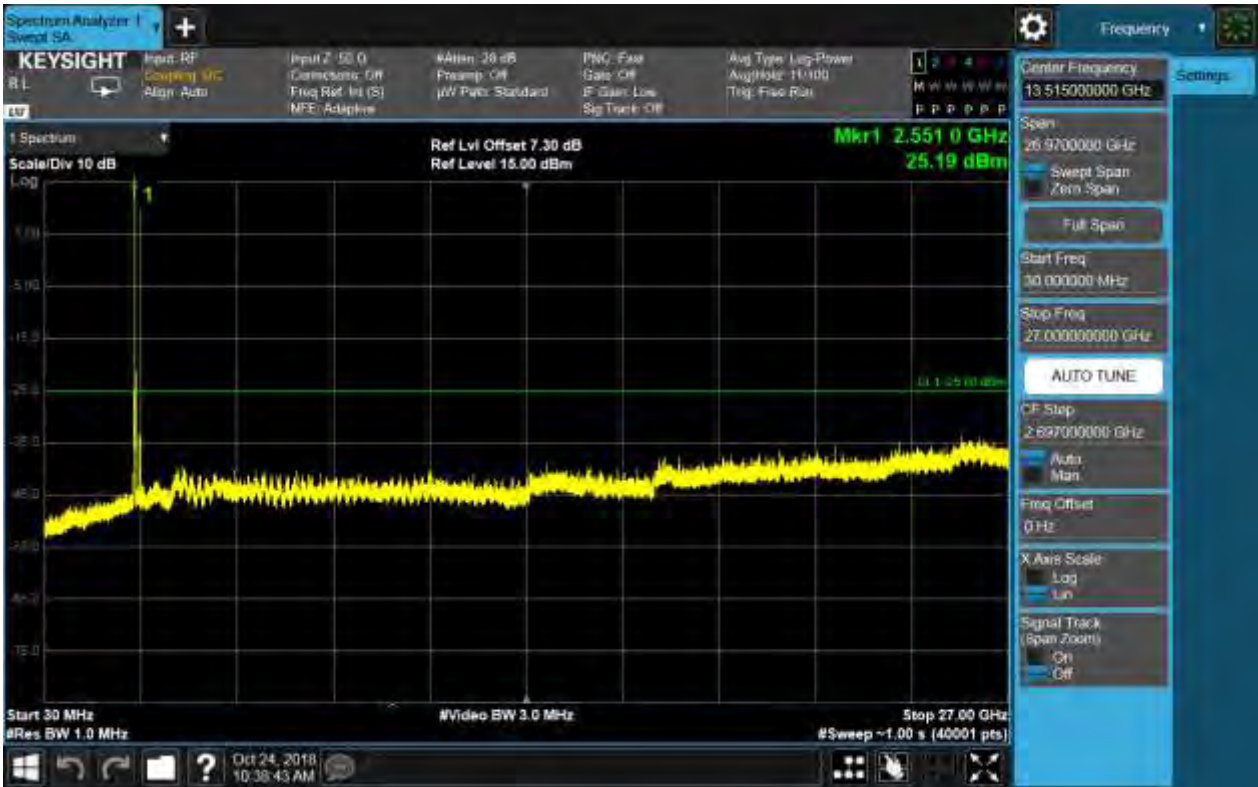


### 6.1.1.1.4.3 Test Channel = HCH

#### 6.1.1.1.4.3.1 Test RB = RB1#0









### 6.1.1.2 Test Mode = LTE/TM2

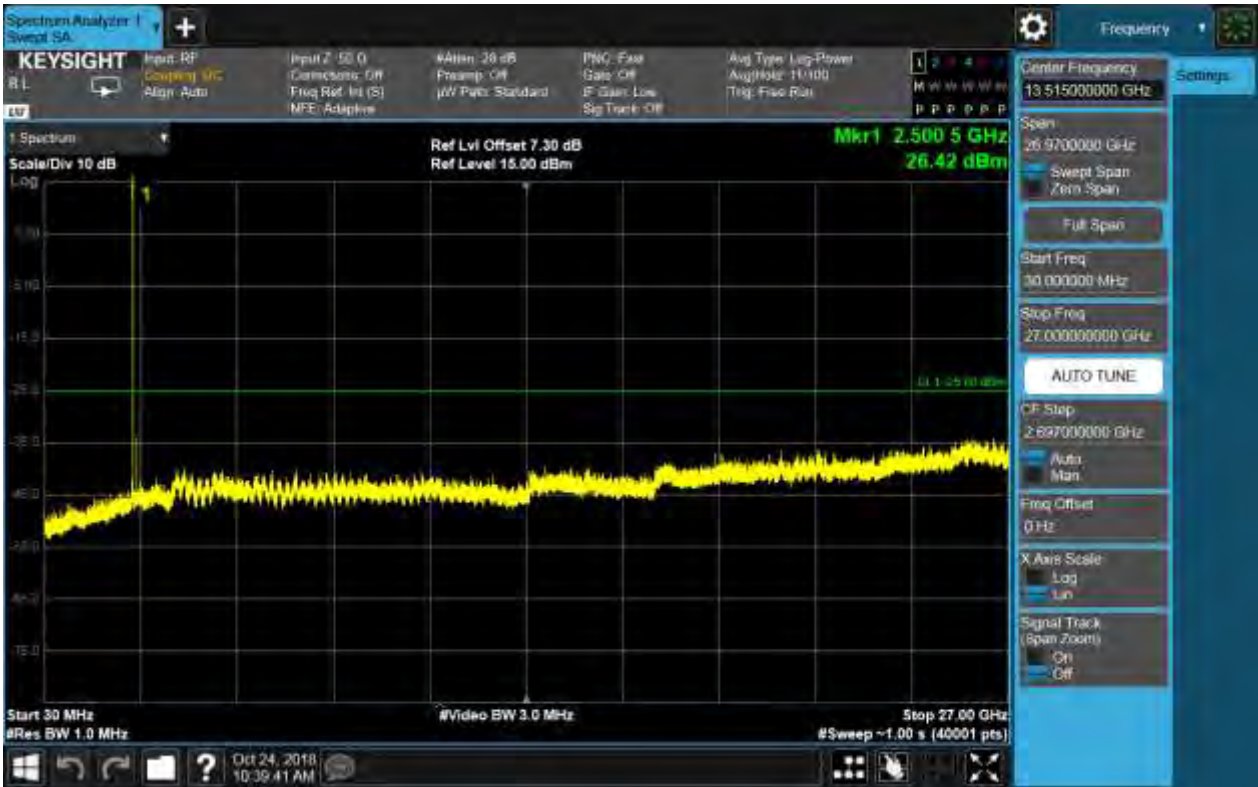
#### 6.1.1.2.1 Test Bandwidth = 5

##### 6.1.1.2.1.1 Test Channel = LCH

##### 6.1.1.2.1.1.1 Test RB = RB1#0





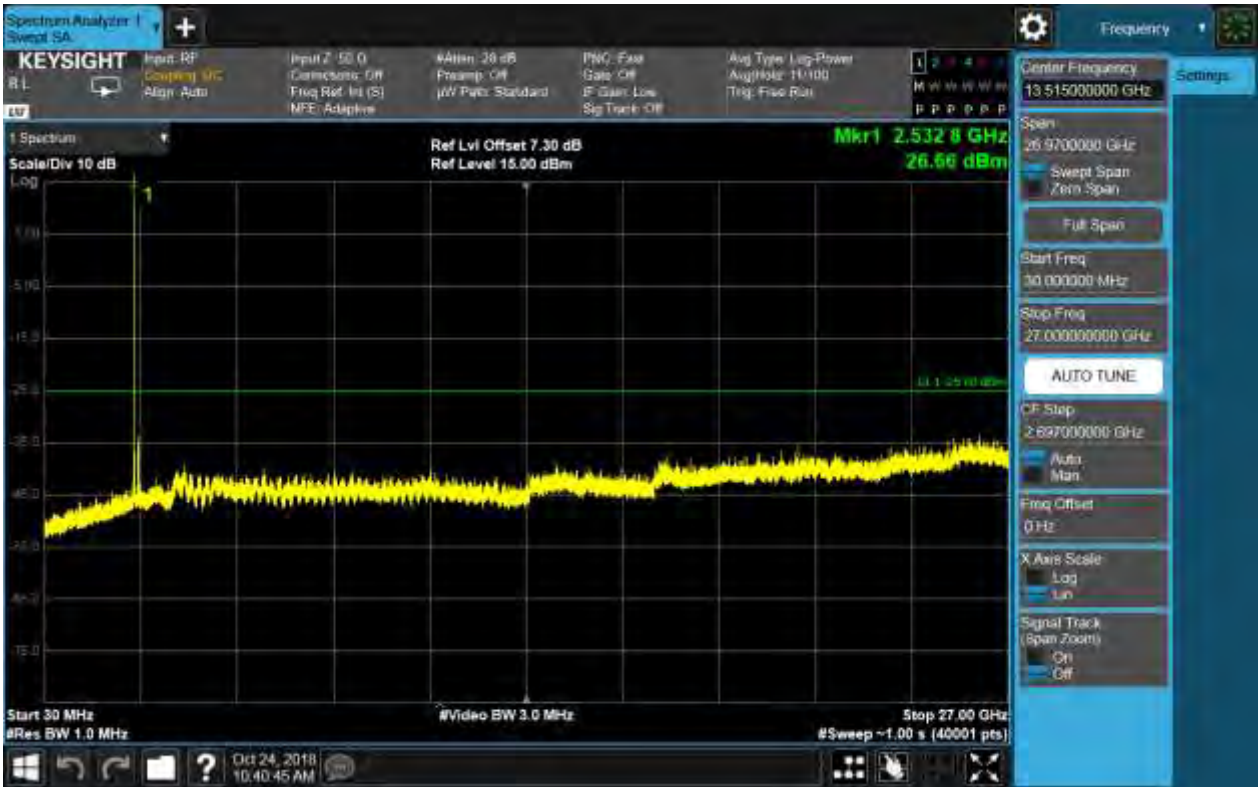


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0







### 6.1.1.2.1.3 Test Channel = HCH

#### 6.1.1.2.1.3.1 Test RB = RB1#0









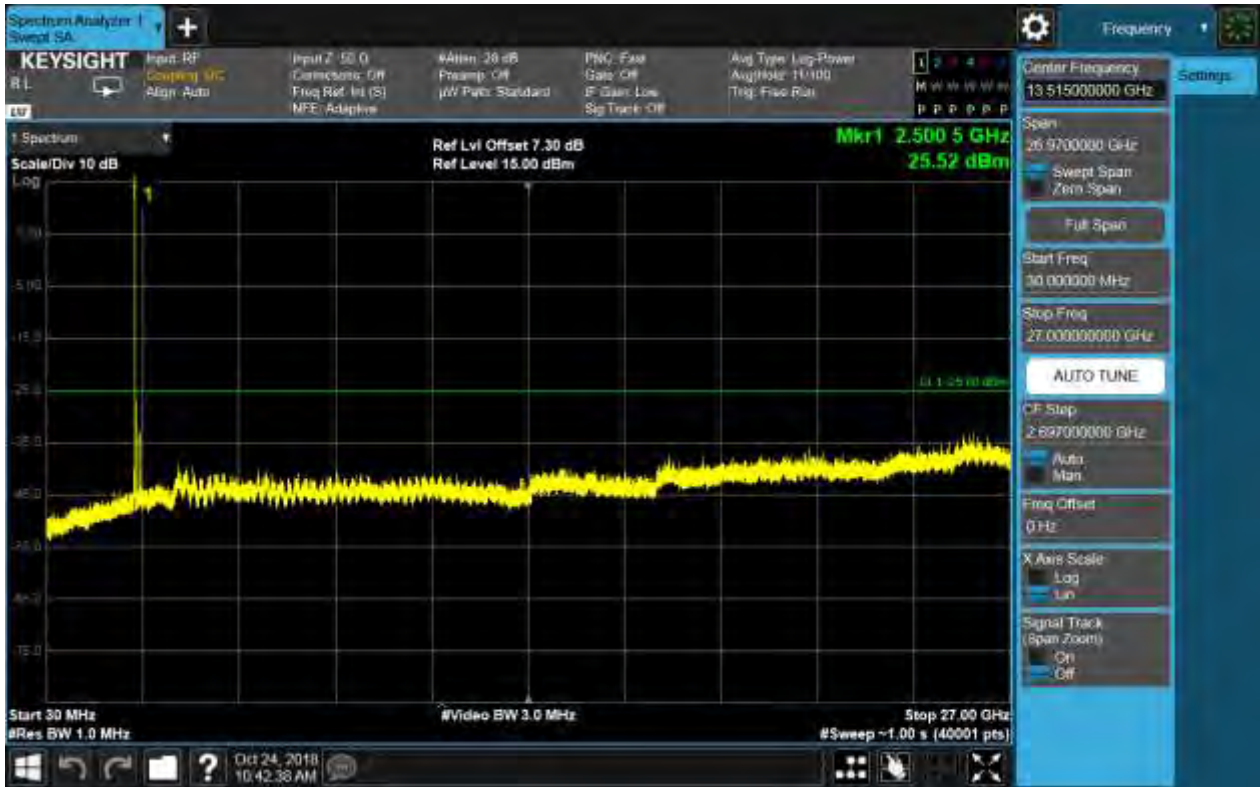
### 6.1.1.2.2 Test Bandwidth = 10

#### 6.1.1.2.2.1 Test Channel = LCH

##### 6.1.1.2.2.1.1 Test RB = RB1#0







### 6.1.1.2.2.2 Test Channel = MCH

#### 6.1.1.2.2.2.1 Test RB = RB1#0







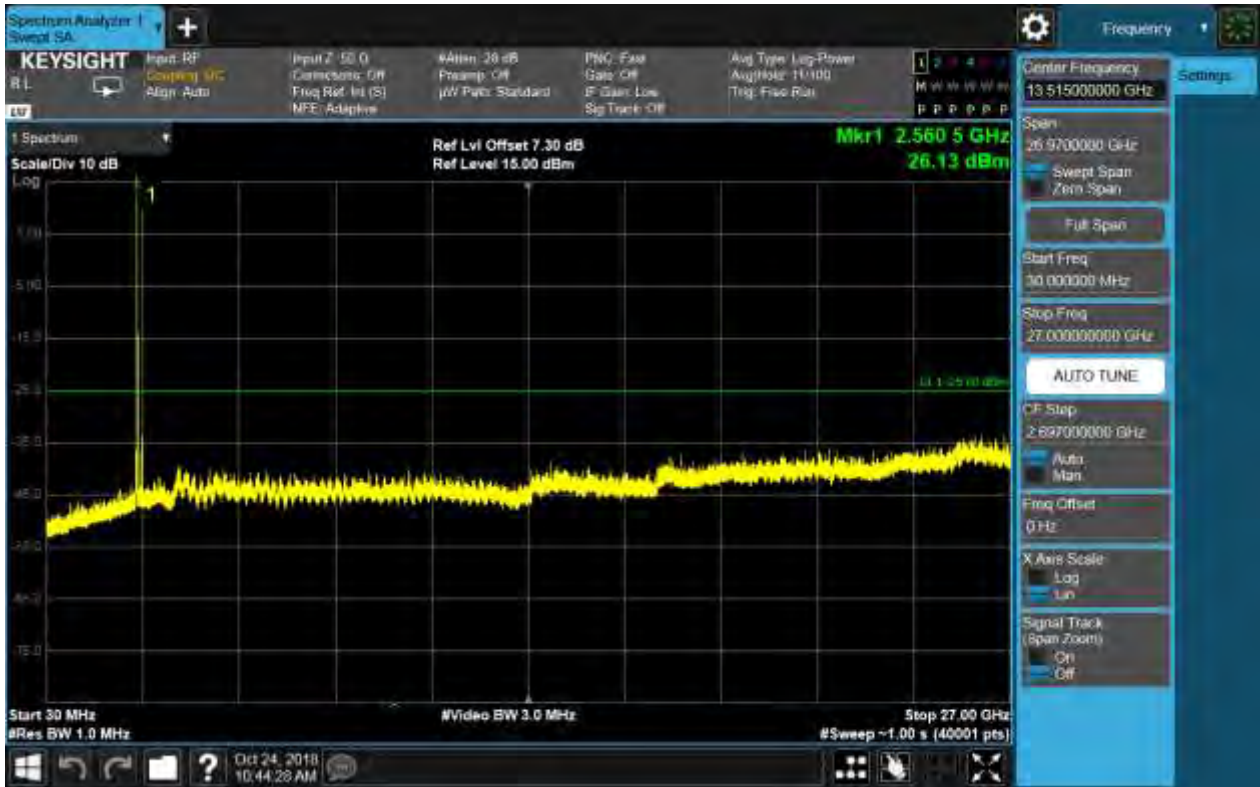
### 6.1.1.2.2.3 Test Channel = HCH

#### 6.1.1.2.2.3.1 Test RB = RB1#0









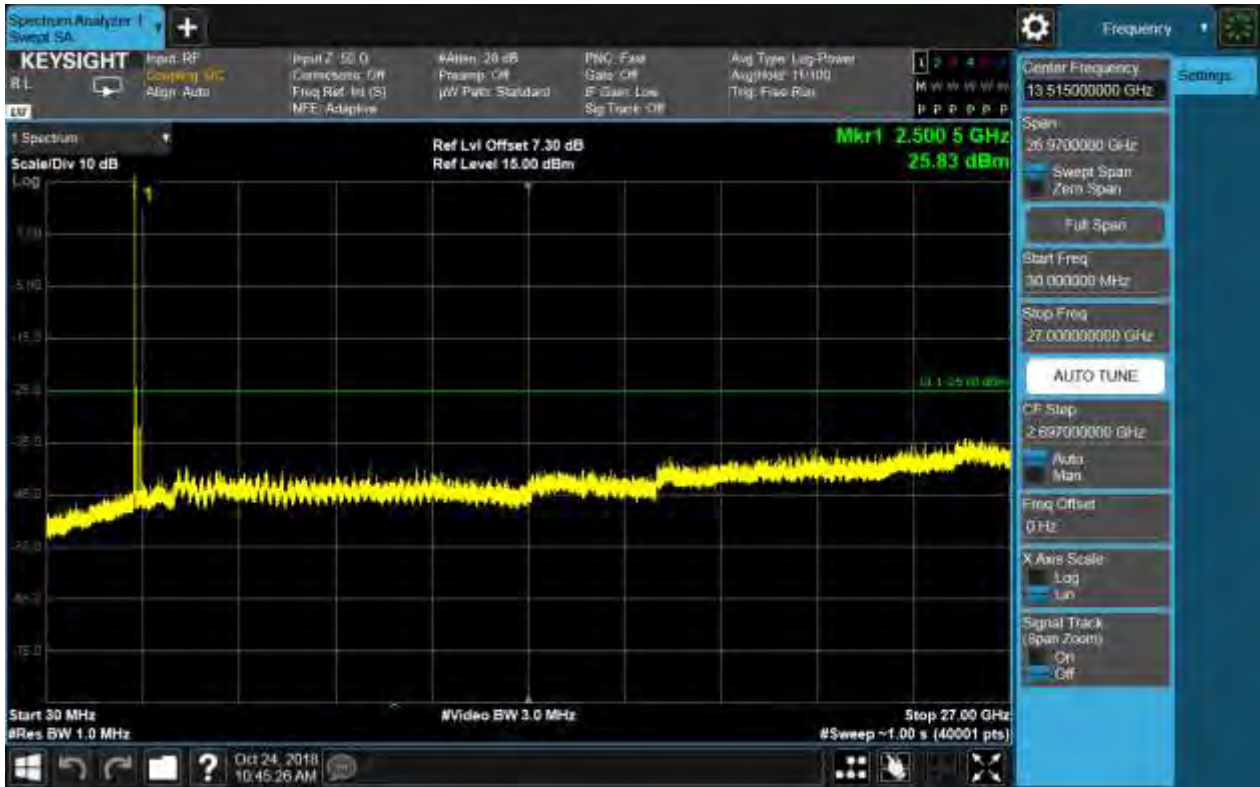
### 6.1.1.2.3 Test Bandwidth = 15

#### 6.1.1.2.3.1 Test Channel = LCH

##### 6.1.1.2.3.1.1 Test RB = RB1#0







### 6.1.1.2.3.2 Test Channel = MCH

#### 6.1.1.2.3.2.1 Test RB = RB1#0







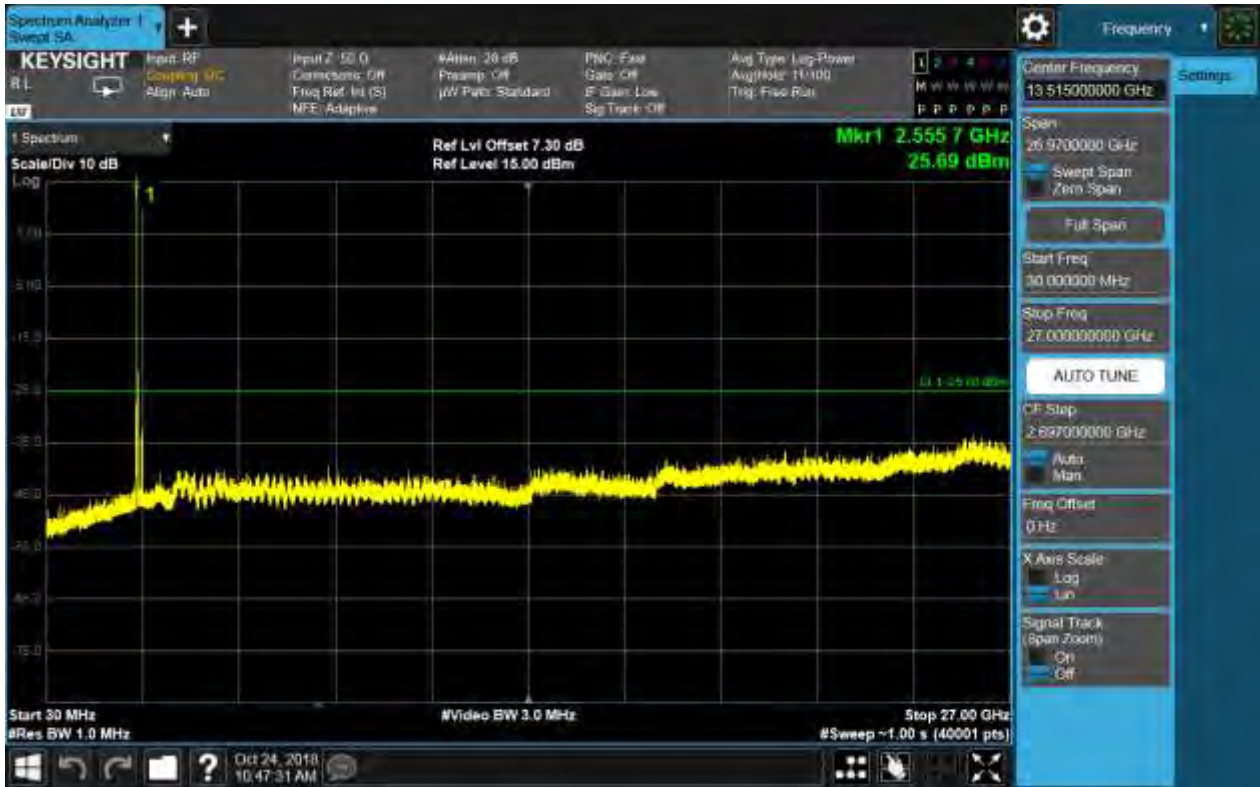


### 6.1.1.2.3.3 Test Channel = HCH

#### 6.1.1.2.3.3.1 Test RB = RB1#0







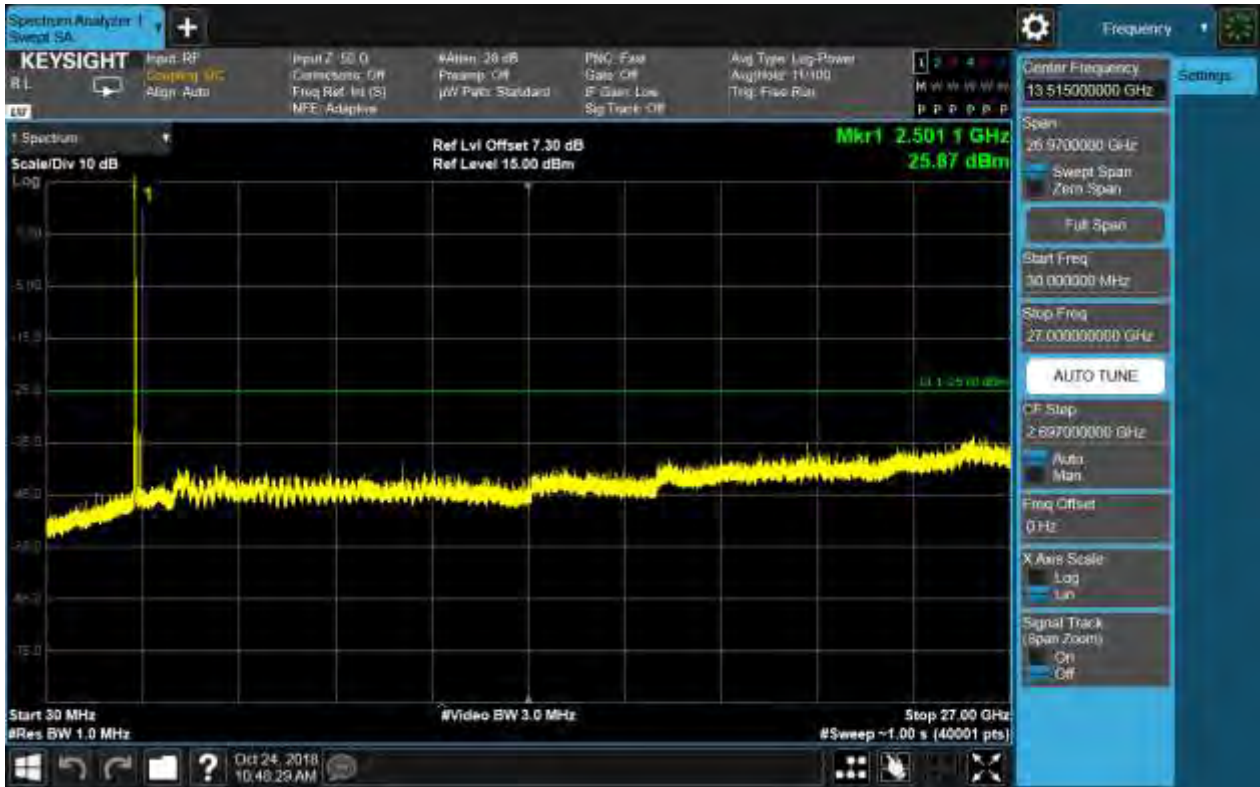
#### 6.1.1.2.4 Test Bandwidth = 20

##### 6.1.1.2.4.1 Test Channel = LCH

##### 6.1.1.2.4.1.1 Test RB = RB1#0







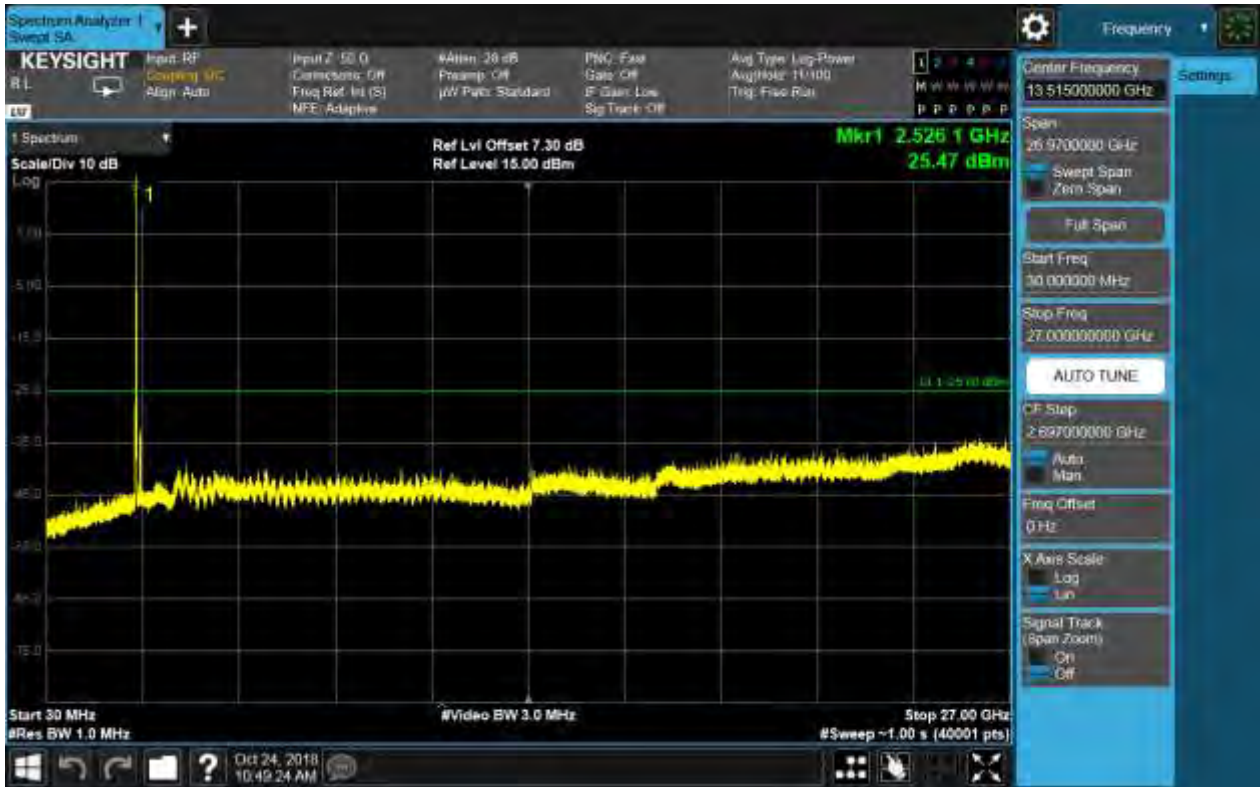
### 6.1.1.2.4.2 Test Channel = MCH

#### 6.1.1.2.4.2.1 Test RB = RB1#0







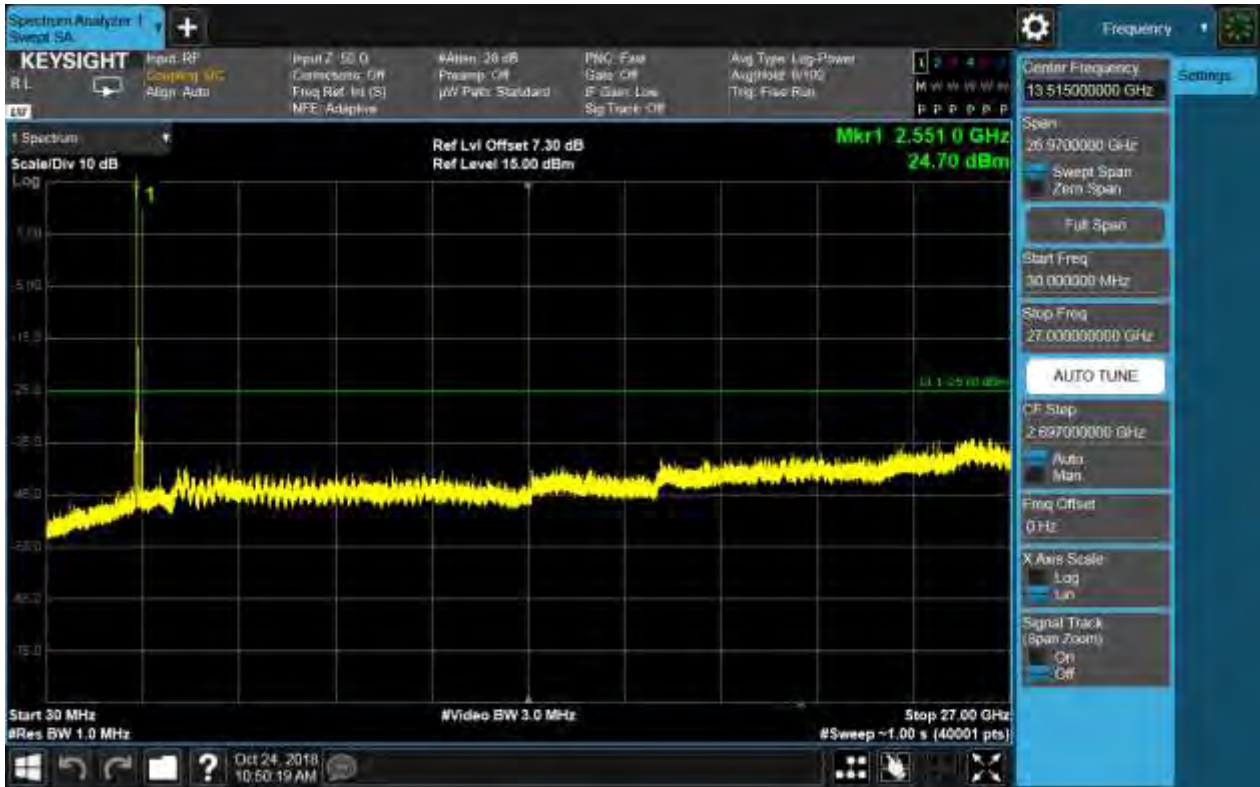


### 6.1.1.2.4.3 Test Channel = HCH

#### 6.1.1.2.4.3.1 Test RB = RB1#0







## 7Appendix\_G: Frequency Stability

### 7.1 For LTE

#### 7.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	TN	VL	-24.75	-0.00989	PASS
					VN	-69.74	-0.02787	PASS
					VH	-48.97	-0.01957	PASS
			MCH	TN	VL	-8.65	-0.00341	PASS
					VN	-6.67	-0.00263	PASS
					VH	-8.71	-0.00344	PASS
			HCH	TN	VL	-7.84	-0.00305	PASS
					VN	-7.95	-0.0031	PASS
					VH	-4.68	-0.00182	PASS
		10	LCH	TN	VL	-5.92	-0.00236	PASS
					VN	-6.05	-0.00242	PASS
					VH	-6.51	-0.0026	PASS
			MCH	TN	VL	-0.89	-0.00035	PASS
					VN	-21.66	-0.00854	PASS
					VH	-2.98	-0.00118	PASS
			HCH	TN	VL	-21.2	-0.00827	PASS
					VN	-16.57	-0.00646	PASS
					VH	-4.15	-0.00162	PASS
		15	LCH	TN	VL	-3.53	-0.00141	PASS
					VN	-12.43	-0.00496	PASS
					VH	-0.57	-0.00023	PASS
			MCH	TN	VL	-1.17	-0.00046	PASS
					VN	-1.77	-0.0007	PASS
					VH	-11.39	-0.00449	PASS
			HCH	TN	VL	-5.12	-0.002	PASS
					VN	-4.46	-0.00174	PASS
					VH	-4.21	-0.00164	PASS
20	LCH	TN	VL	-2.16	-0.00086	PASS		
			VN	-4.81	-0.00192	PASS		
			VH	-4.11	-0.00164	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
	LTE/TM2		MCH	TN	VL	-2.98	-0.00118	PASS	
					VN	-2.86	-0.00113	PASS	
					VH	-2.3	-0.00091	PASS	
			HCH	TN	VL	-3.92	-0.00153	PASS	
					VN	-6.27	-0.00245	PASS	
					VH	-3.38	-0.00132	PASS	
		5	LCH	TN	VL	-2.56	-0.00102	PASS	
					VN	-28.11	-0.01123	PASS	
					VH	-8.98	-0.00359	PASS	
			MCH	TN	VL	-30.54	-0.01205	PASS	
					VN	0.63	0.00025	PASS	
					VH	-1.03	-0.00041	PASS	
			HCH	TN	VL	-16.26	-0.00633	PASS	
					VN	-26.62	-0.01037	PASS	
					VH	-4.13	-0.00161	PASS	
			10	LCH	TN	VL	-1.96	-0.00078	PASS
						VN	-2.62	-0.00105	PASS
						VH	-6.31	-0.00252	PASS
		MCH		TN	VL	-17.72	-0.00699	PASS	
					VN	-2.13	-0.00084	PASS	
					VH	-18.77	-0.0074	PASS	
		HCH		TN	VL	-4.41	-0.00172	PASS	
					VN	-5.81	-0.00227	PASS	
					VH	-0.87	-0.00034	PASS	
		15	LCH	TN	VL	0.06	0.00002	PASS	
					VN	-1.42	-0.00057	PASS	
					VH	-1.09	-0.00043	PASS	
			MCH	TN	VL	-5.02	-0.00198	PASS	
					VN	-2.62	-0.00103	PASS	
					VH	-0.72	-0.00028	PASS	
			HCH	TN	VL	-2.66	-0.00104	PASS	
					VN	-1.52	-0.00059	PASS	
					VH	-11.62	-0.00453	PASS	
		20	LCH	TN	VL	-1.85	-0.00074	PASS	
					VN	-3.19	-0.00127	PASS	
					VH	-3.75	-0.00149	PASS	
			MCH	TN	VL	0.77	0.0003	PASS	
					VN	-2.99	-0.00118	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	0.24	0.00009	PASS
			HCH	TN	VL	-3.08	-0.0012	PASS
					VN	-4.75	-0.00186	PASS
					VH	-2.1	-0.00082	PASS

7.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-3.88	-0.00155	PASS
					-20	-3.13	-0.00125	PASS
					-10	-0.34	-0.00014	PASS
					0	-3.16	-0.00126	PASS
					10	0.11	0.00004	PASS
					20	-4.73	-0.00189	PASS
					30	-2.59	-0.00103	PASS
					40	-2.27	-0.00091	PASS
			50	0.26	0.0001	PASS		
			MCH	VN	-30	2.17	0.00086	PASS
					-20	3.96	0.00156	PASS
					-10	1.12	0.00044	PASS
					0	0.07	0.00003	PASS
					10	0.74	0.00029	PASS
					20	3.72	0.00147	PASS
					30	0.23	0.00009	PASS
					40	1.95	0.00077	PASS
			HCH	VN	-30	-2.95	-0.00115	PASS
					-20	1.02	0.0004	PASS
					-10	-2.56	-0.001	PASS
					0	2.96	0.00115	PASS
					10	0.24	0.00009	PASS
					20	1.39	0.00054	PASS
					30	1.24	0.00048	PASS
		40			1.49	0.00058	PASS	
		50	2.32	0.0009	PASS			
		10	LCH	VN	-30	-2.05	-0.00082	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	-0.51	-0.0002	PASS	
					-10	-1.32	-0.00053	PASS	
					0	-0.41	-0.00016	PASS	
					10	-3.93	-0.00157	PASS	
					20	0.23	0.00009	PASS	
					30	0.70	0.00028	PASS	
					40	-0.39	-0.00016	PASS	
					50	-0.83	-0.00033	PASS	
			MCH	VN	-30	0.76	0.0003	PASS	
					-20	-0.73	-0.00029	PASS	
					-10	0.10	0.00004	PASS	
					0	2.02	0.0008	PASS	
					10	0.66	0.00026	PASS	
					20	-2.82	-0.00111	PASS	
					30	1.07	0.00042	PASS	
					40	0.04	0.00002	PASS	
			HCH	VN	-30	-26.97	-0.01051	PASS	
					-20	-16.79	-0.00655	PASS	
					-10	-1.04	-0.00041	PASS	
					0	-0.49	-0.00019	PASS	
					10	0.31	0.00012	PASS	
					20	-21.17	-0.00825	PASS	
					30	-2.29	-0.00089	PASS	
					40	0.83	0.00032	PASS	
			15	LCH	VN	-30	1.63	0.00065	PASS
						-20	-2.65	-0.00106	PASS
						-10	-13.48	-0.00538	PASS
						0	-2.26	-0.0009	PASS
		10				0.72	0.00029	PASS	
		20				-0.67	-0.00027	PASS	
		30				0.24	0.0001	PASS	
		40				-0.60	-0.00024	PASS	
		50		-13.82	-0.00551	PASS			
		MCH		VN	-30	3.58	0.00141	PASS	
					-20	-1.09	-0.00043	PASS	
					-10	-9.46	-0.00373	PASS	





Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict								
					0	0.36	0.00014	PASS								
					10	2.32	0.00092	PASS								
					20	-8.25	-0.00325	PASS								
					30	-12.33	-0.00486	PASS								
					40	0.74	0.00029	PASS								
					50	0.21	0.00008	PASS								
			HCH	VN				-30	-12.87	-0.00502	PASS					
								-20	0.54	0.00021	PASS					
								-10	-2.03	-0.00079	PASS					
								0	-2.76	-0.00108	PASS					
								10	-18.78	-0.00733	PASS					
								20	-1.16	-0.00045	PASS					
								30	-10.11	-0.00395	PASS					
								40	-8.58	-0.00335	PASS					
								50	1.29	0.0005	PASS					
								LCH	VN				-30	-1.57	-0.00063	PASS
													-20	-4.55	-0.00181	PASS
													-10	-5.28	-0.0021	PASS
													0	-2.53	-0.00101	PASS
													10	-0.67	-0.00027	PASS
		20	-1.29	-0.00051	PASS											
		30	-0.72	-0.00029	PASS											
		40	-2.26	-0.0009	PASS											
		50	-0.34	-0.00014	PASS											
		MCH	VN	20			-30						0.56	0.00022	PASS	
							-20						-0.14	-0.00006	PASS	
							-10						-1.00	-0.00039	PASS	
							0						0.14	0.00006	PASS	
							10						1.62	0.00064	PASS	
							20	-1.54	-0.00061	PASS						
							30	0.26	0.0001	PASS						
							40	-0.96	-0.00038	PASS						
							50	0.37	0.00015	PASS						
							HCH	VN	20			-30	-0.80	-0.00031	PASS	
		-20	-3.91	-0.00153	PASS											
		-10	-2.40	-0.00094	PASS											
		0	-2.13	-0.00083	PASS											
		10	-0.84	-0.00033	PASS											



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	20	-0.34	-0.00013	PASS
					30	-2.46	-0.00096	PASS
					40	-1.44	-0.00056	PASS
					50	-2.59	-0.00101	PASS
			LCH	VN	-30	2.25	0.0009	PASS
					-20	1.72	0.00069	PASS
					-10	0.69	0.00028	PASS
					0	0.09	0.00004	PASS
			LCH	VN	10	1.10	0.00044	PASS
					20	-1.70	-0.00068	PASS
					30	0.40	0.00016	PASS
					40	-2.29	-0.00092	PASS
			LCH	VN	50	0.17	0.00007	PASS
					MCH	VN	-30	2.00
	-20	3.12					0.00123	PASS
	-10	1.59					0.00063	PASS
	0	0.34	0.00013	PASS				
	MCH	VN	10	2.49	0.00098	PASS		
			20	1.66	0.00065	PASS		
			30	-1.32	-0.00052	PASS		
			40	0.89	0.00035	PASS		
	MCH	VN	50	1.99	0.00079	PASS		
			HCH	VN	-30	0.20	0.00008	PASS
					-20	0.80	0.00031	PASS
					-10	-3.46	-0.00135	PASS
	0	0.96			0.00037	PASS		
	HCH	VN	10	1.69	0.00066	PASS		
			20	-0.73	-0.00028	PASS		
			30	1.13	0.00044	PASS		
			40	3.65	0.00142	PASS		
HCH	VN	50	3.38	0.00132	PASS			
		LCH	VN	-30	-1.63	-0.00065	PASS	
				-20	0.36	0.00014	PASS	
				-10	-1.20	-0.00048	PASS	
0	-2.50			-0.001	PASS			
LCH	VN	10	-2.45	-0.00098	PASS			
		20	-0.41	-0.00016	PASS			
		30	0.72	0.00029	PASS			
		10						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	-2.49	-0.00099	PASS	
					50	2.49	0.00099	PASS	
			MCH	VN	-30	1.10	0.00043	PASS	
					-20	0.79	0.00031	PASS	
					-10	0.90	0.00036	PASS	
					0	1.17	0.00046	PASS	
					10	1.92	0.00076	PASS	
					20	-0.74	-0.00029	PASS	
					30	-0.19	-0.00007	PASS	
					40	2.16	0.00085	PASS	
					50	2.23	0.00088	PASS	
					HCH	VN	-30	-0.90	-0.00035
			-20	-0.53			-0.00021	PASS	
			-10	-20.33			-0.00793	PASS	
			0	1.24			0.00048	PASS	
			10	-16.47			-0.00642	PASS	
			20	-3.98			-0.00155	PASS	
			30	1.27			0.0005	PASS	
		40	-0.10	-0.00004			PASS		
		15		LCH	VN	-30	0.64	0.00026	PASS
						-20	-1.29	-0.00051	PASS
						-10	-0.23	-0.00009	PASS
						0	2.39	0.00095	PASS
						10	-1.17	-0.00047	PASS
						20	0.51	0.0002	PASS
						30	0.77	0.00031	PASS
						40	1.40	0.00056	PASS
				50	0.49	0.0002	PASS		
				MCH	VN	-30	-0.01	0	PASS
						-20	0.60	0.00024	PASS
						-10	1.13	0.00045	PASS
						0	-13.79	-0.00544	PASS
10	0.54					0.00021	PASS		
20	3.42	0.00135	PASS						
30	1.42	0.00056	PASS						
40	-0.46	-0.00018	PASS						
50	-0.97	-0.00038	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			HCH	VN	-30	-2.96	-0.00116	PASS	
					-20	-11.90	-0.00464	PASS	
					-10	-11.12	-0.00434	PASS	
					0	-1.27	-0.0005	PASS	
					10	-8.23	-0.00321	PASS	
					20	-0.84	-0.00033	PASS	
					30	-0.79	-0.00031	PASS	
					40	-0.50	-0.0002	PASS	
			50	-0.62	-0.00024	PASS			
			20	LCH	VN	-30	-0.19	-0.00008	PASS
						-20	-0.64	-0.00025	PASS
						-10	-1.63	-0.00065	PASS
						0	-0.99	-0.00039	PASS
						10	-1.59	-0.00063	PASS
						20	-1.36	-0.00054	PASS
						30	-0.40	-0.00016	PASS
		40				-2.80	-0.00112	PASS	
		20	MCH	VN	-30	2.96	0.00117	PASS	
					-20	2.29	0.0009	PASS	
					-10	2.79	0.0011	PASS	
					0	0.60	0.00024	PASS	
					10	1.10	0.00043	PASS	
					20	-0.46	-0.00018	PASS	
					30	2.65	0.00105	PASS	
					40	0.23	0.00009	PASS	
		20	HCH	VN	-30	-0.20	-0.00008	PASS	
					-20	-2.56	-0.001	PASS	
					-10	0.99	0.00039	PASS	
					0	-0.79	-0.00031	PASS	
					10	-1.66	-0.00065	PASS	
					20	-1.03	-0.0004	PASS	
					30	-0.47	-0.00018	PASS	
40	-2.16				-0.00084	PASS			
50	-0.41	-0.00016	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-3.88	-0.00155	PASS
					-20	-3.13	-0.00125	PASS
					-10	-0.34	-0.00014	PASS
					0	-3.16	-0.00126	PASS
					10	0.11	0.00004	PASS
					20	-4.73	-0.00189	PASS
					30	-2.59	-0.00103	PASS
					40	-2.27	-0.00091	PASS
					50	0.26	0.0001	PASS
			MCH	VN	-30	2.17	0.00086	PASS
					-20	3.96	0.00156	PASS
					-10	1.12	0.00044	PASS
					0	0.07	0.00003	PASS
					10	0.74	0.00029	PASS
					20	3.72	0.00147	PASS
					30	0.23	0.00009	PASS
					40	1.95	0.00077	PASS
					50	1.16	0.00046	PASS
			HCH	VN	-30	-2.95	-0.00115	PASS
					-20	1.02	0.0004	PASS
					-10	-2.56	-0.001	PASS
					0	2.96	0.00115	PASS
					10	0.24	0.00009	PASS
					20	1.39	0.00054	PASS
		30			1.24	0.00048	PASS	
		40			1.49	0.00058	PASS	
		50			2.32	0.0009	PASS	
		10	LCH	VN	-30	-2.05	-0.00082	PASS
					-20	-0.51	-0.0002	PASS
					-10	-1.32	-0.00053	PASS
					0	-0.41	-0.00016	PASS
					10	-3.93	-0.00157	PASS
					20	0.23	0.00009	PASS
					30	0.70	0.00028	PASS
					40	-0.39	-0.00016	PASS
					50	-0.83	-0.00033	PASS
MCH	VN				-30	0.76	0.0003	PASS
					-20	-0.73	-0.00029	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	0.10	0.00004	PASS
					0	2.02	0.0008	PASS
					10	0.66	0.00026	PASS
					20	-2.82	-0.00111	PASS
					30	1.07	0.00042	PASS
					40	0.04	0.00002	PASS
					50	0.62	0.00024	PASS
			HCH	VN	-30	-26.97	-0.01051	PASS
					-20	-16.79	-0.00655	PASS
					-10	-1.04	-0.00041	PASS
					0	-0.49	-0.00019	PASS
					10	0.31	0.00012	PASS
					20	-21.17	-0.00825	PASS
					30	-2.29	-0.00089	PASS
		40	0.83	0.00032	PASS			
		50	-1.29	-0.0005	PASS			
		15	LCH	VN	-30	1.63	0.00065	PASS
					-20	-2.65	-0.00106	PASS
					-10	-13.48	-0.00538	PASS
					0	-2.26	-0.0009	PASS
					10	0.72	0.00029	PASS
					20	-0.67	-0.00027	PASS
					30	0.24	0.0001	PASS
			40	-0.60	-0.00024	PASS		
			50	-13.82	-0.00551	PASS		
			MCH	VN	-30	3.58	0.00141	PASS
					-20	-1.09	-0.00043	PASS
					-10	-9.46	-0.00373	PASS
					0	0.36	0.00014	PASS
					10	2.32	0.00092	PASS
		20			-8.25	-0.00325	PASS	
		30			-12.33	-0.00486	PASS	
		40	0.74	0.00029	PASS			
		50	0.21	0.00008	PASS			
		HCH	VN	-30	-12.87	-0.00502	PASS	
				-20	0.54	0.00021	PASS	
				-10	-2.03	-0.00079	PASS	
				0	-2.76	-0.00108	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-18.78	-0.00733	PASS		
					20	-1.16	-0.00045	PASS		
					30	-10.11	-0.00395	PASS		
					40	-8.58	-0.00335	PASS		
					50	1.29	0.0005	PASS		
					LCH	VN	-30	-1.57	-0.00063	PASS
							-20	-4.55	-0.00181	PASS
							-10	-5.28	-0.0021	PASS
							0	-2.53	-0.00101	PASS
							10	-0.67	-0.00027	PASS
		20	-1.29	-0.00051			PASS			
		30	-0.72	-0.00029			PASS			
		40	-2.26	-0.0009			PASS			
		50	-0.34	-0.00014			PASS			
		MCH	VN	-30			0.56	0.00022	PASS	
				-20	-0.14	-0.00006	PASS			
				-10	-1.00	-0.00039	PASS			
				0	0.14	0.00006	PASS			
				10	1.62	0.00064	PASS			
				20	-1.54	-0.00061	PASS			
	30			0.26	0.0001	PASS				
	40			-0.96	-0.00038	PASS				
	50			0.37	0.00015	PASS				
	HCH			VN	-30	-0.80	-0.00031	PASS		
		-20	-3.91		-0.00153	PASS				
		-10	-2.40		-0.00094	PASS				
		0	-2.13		-0.00083	PASS				
		10	-0.84		-0.00033	PASS				
		20	-0.34		-0.00013	PASS				
		30	-2.46		-0.00096	PASS				
		40	-1.44		-0.00056	PASS				
		50	-2.59		-0.00101	PASS				
		LTE/TM2	5		LCH	VN	-30	2.25	0.0009	PASS
-20	1.72			0.00069			PASS			
-10	0.69			0.00028			PASS			
0	0.09			0.00004			PASS			
10	1.10			0.00044			PASS			
20	-1.70			-0.00068			PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	0.40	0.00016	PASS
					40	-2.29	-0.00092	PASS
					50	0.17	0.00007	PASS
			MCH	VN	-30	2.00	0.00079	PASS
					-20	3.12	0.00123	PASS
					-10	1.59	0.00063	PASS
					0	0.34	0.00013	PASS
					10	2.49	0.00098	PASS
					20	1.66	0.00065	PASS
					30	-1.32	-0.00052	PASS
					40	0.89	0.00035	PASS
					50	1.99	0.00079	PASS
					HCH	VN	-30	0.20
			-20	0.80			0.00031	PASS
			-10	-3.46			-0.00135	PASS
			0	0.96			0.00037	PASS
			10	1.69			0.00066	PASS
			20	-0.73			-0.00028	PASS
			30	1.13			0.00044	PASS
			40	3.65			0.00142	PASS
			LCH	VN	50	3.38	0.00132	PASS
					-30	-1.63	-0.00065	PASS
					-20	0.36	0.00014	PASS
					-10	-1.20	-0.00048	PASS
					0	-2.50	-0.001	PASS
					10	-2.45	-0.00098	PASS
					20	-0.41	-0.00016	PASS
					30	0.72	0.00029	PASS
					40	-2.49	-0.00099	PASS
					50	2.49	0.00099	PASS
			MCH	VN	-30	1.10	0.00043	PASS
					-20	0.79	0.00031	PASS
					-10	0.90	0.00036	PASS
					0	1.17	0.00046	PASS
					10	1.92	0.00076	PASS
					20	-0.74	-0.00029	PASS
					30	-0.19	-0.00007	PASS
					40	2.16	0.00085	PASS





Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	50	2.23	0.00088	PASS
					-30	-0.90	-0.00035	PASS
					-20	-0.53	-0.00021	PASS
					-10	-20.33	-0.00793	PASS
					0	1.24	0.00048	PASS
					10	-16.47	-0.00642	PASS
					20	-3.98	-0.00155	PASS
					30	1.27	0.0005	PASS
					40	-0.10	-0.00004	PASS
					50	-2.16	-0.00084	PASS
			LCH	VN	-30	0.64	0.00026	PASS
					-20	-1.29	-0.00051	PASS
					-10	-0.23	-0.00009	PASS
					0	2.39	0.00095	PASS
					10	-1.17	-0.00047	PASS
					20	0.51	0.0002	PASS
					30	0.77	0.00031	PASS
					40	1.40	0.00056	PASS
					50	0.49	0.0002	PASS
						MCH	VN	-30
		-20	0.60	0.00024				PASS
		-10	1.13	0.00045				PASS
		0	-13.79	-0.00544				PASS
		10	0.54	0.00021				PASS
		20	3.42	0.00135				PASS
		30	1.42	0.00056				PASS
		40	-0.46	-0.00018				PASS
		50	-0.97	-0.00038				PASS
			HCH	VN				-30
					-20	-11.90	-0.00464	PASS
					-10	-11.12	-0.00434	PASS
					0	-1.27	-0.0005	PASS
					10	-8.23	-0.00321	PASS
					20	-0.84	-0.00033	PASS
					30	-0.79	-0.00031	PASS
					40	-0.50	-0.0002	PASS
					50	-0.62	-0.00024	PASS
					20	LCH	VN	-30



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					-20	-0.64	-0.00025	PASS			
					-10	-1.63	-0.00065	PASS			
					0	-0.99	-0.00039	PASS			
					10	-1.59	-0.00063	PASS			
					20	-1.36	-0.00054	PASS			
					30	-0.40	-0.00016	PASS			
					40	-2.80	-0.00112	PASS			
					50	-1.14	-0.00045	PASS			
			MCH	VN	-30	2.96	0.00117	PASS			
					-20	2.29	0.0009	PASS			
					-10	2.79	0.0011	PASS			
					0	0.60	0.00024	PASS			
					10	1.10	0.00043	PASS			
					20	-0.46	-0.00018	PASS			
					30	2.65	0.00105	PASS			
					40	0.23	0.00009	PASS			
			HCH	VN	-30	-0.20	-0.00008	PASS			
					-20	-2.56	-0.001	PASS			
					-10	0.99	0.00039	PASS			
					0	-0.79	-0.00031	PASS			
					10	-1.66	-0.00065	PASS			
					20	-1.03	-0.0004	PASS			
					30	-0.47	-0.00018	PASS			
					40	-2.16	-0.00084	PASS			
								50	-0.41	-0.00016	PASS

END