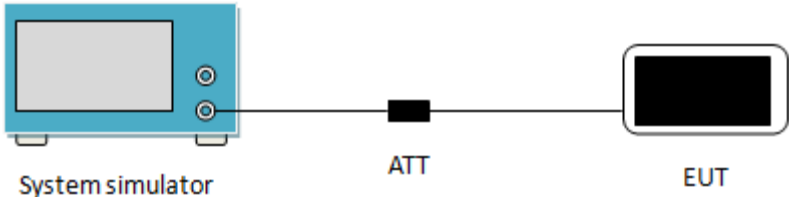
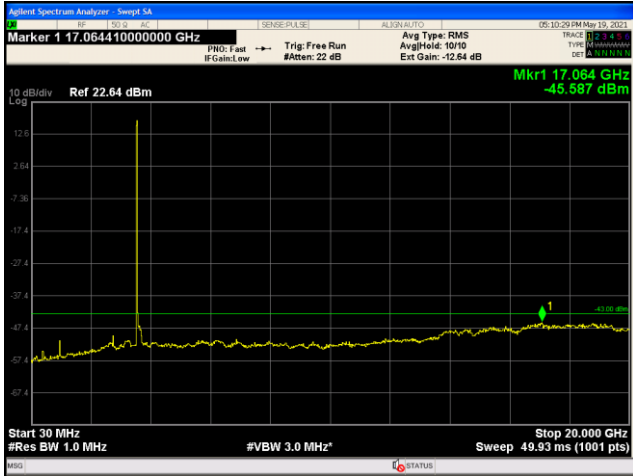


### 6.5 Out of band emission at antenna terminals

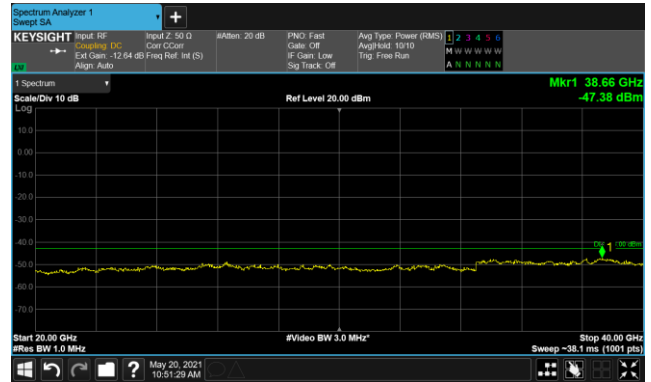
Test Requirement:	FCC part 96.41(e)(1)(2)
Limit:	below 3530 MHz and above 3720 MHz $\leq$ -40dBm
	 <p style="text-align: center;">System simulator                      ATT                      EUT</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 For the out of band: RBW =1 MHz, VBW=3 MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.(Band Edge test data refer to the Section 6.4)</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	The emission evaluation for MIMO mode is exempted because all the emissions on SISO mode are lower (at least) by 3.0dB than the limit masks.

Test plots as follows (worst case):  
Spurious emission

LTE Band 48(10 MHz 64QAM)- ANT 0  
Lowest channel



30MHz~20GHz

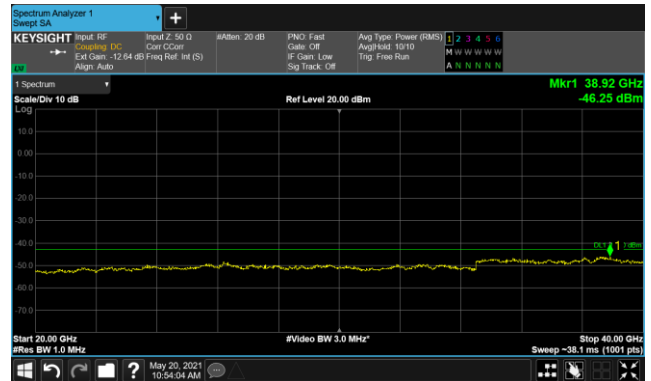


20GHz~40GHz

Middle channel



30MHz~20GHz

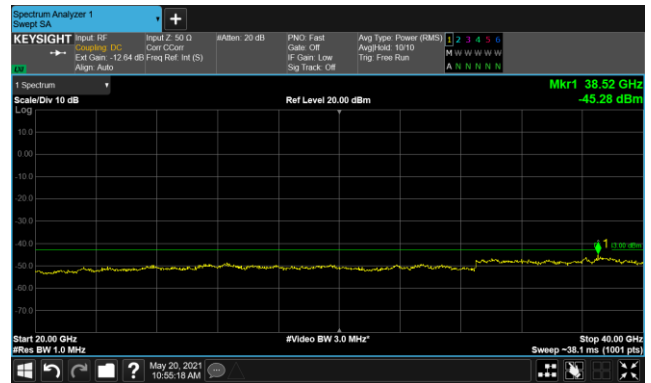


20GHz~40GHz

Highest channel

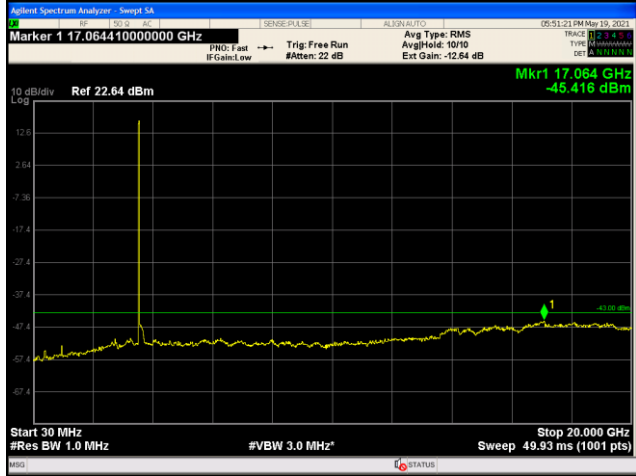


30MHz~20GHz

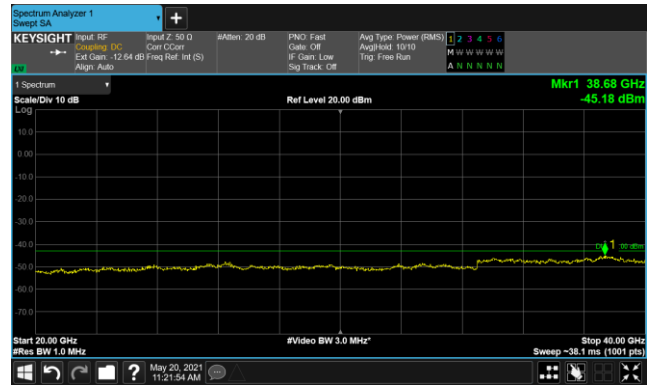


20GHz~40GHz

LTE Band 48(10 MHz 64QAM)-ANT 1  
Lowest channel



30MHz~20GHz

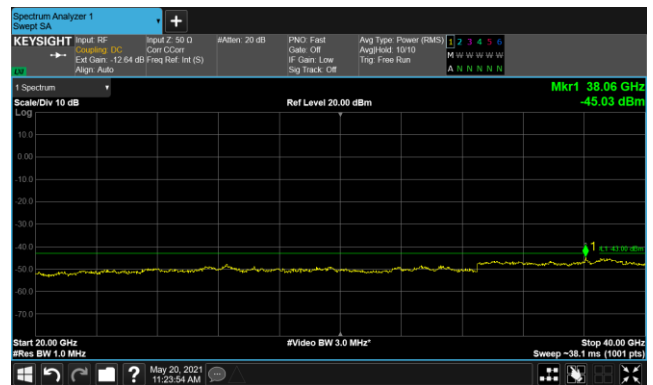


20GHz~40GHz

Middle channel

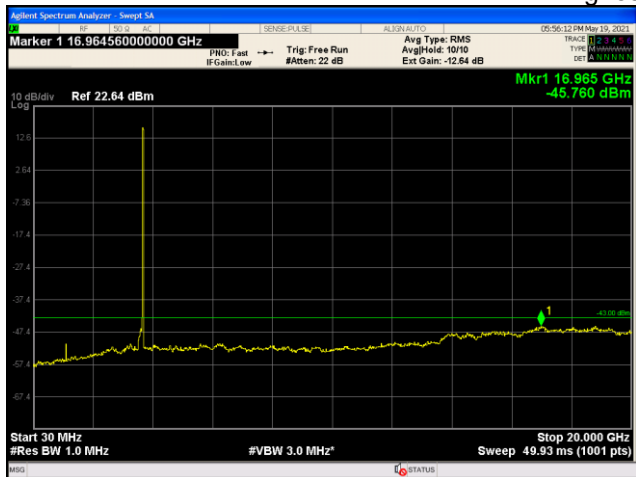


30MHz~20GHz

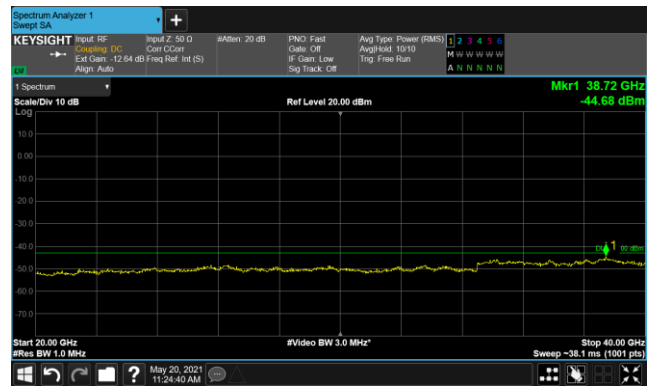


20GHz~40GHz

Highest channel



30MHz~20GHz

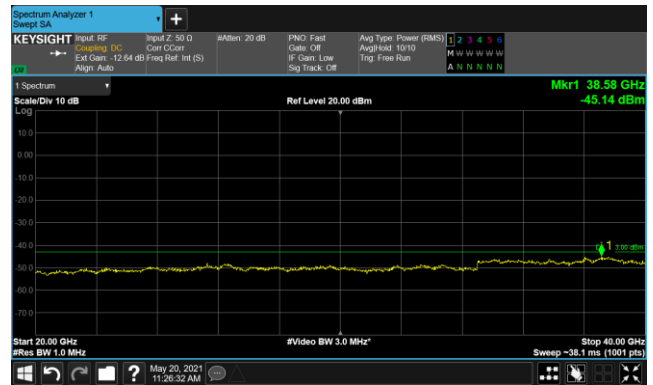


20GHz~40GHz

LTE Band 48(10 MHz 64QAM)-ANT 2  
Lowest channel



30MHz~20GHz

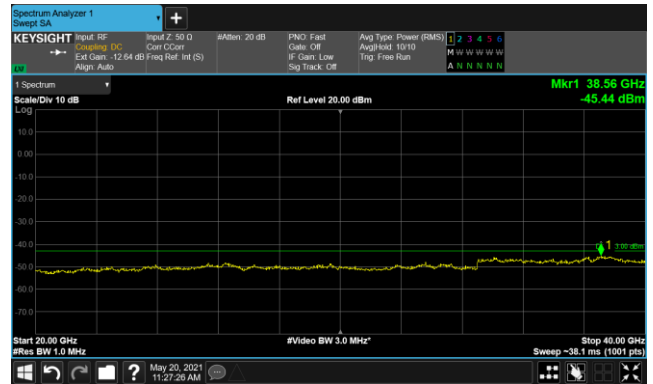


20GHz~40GHz

Middle channel



30MHz~20GHz

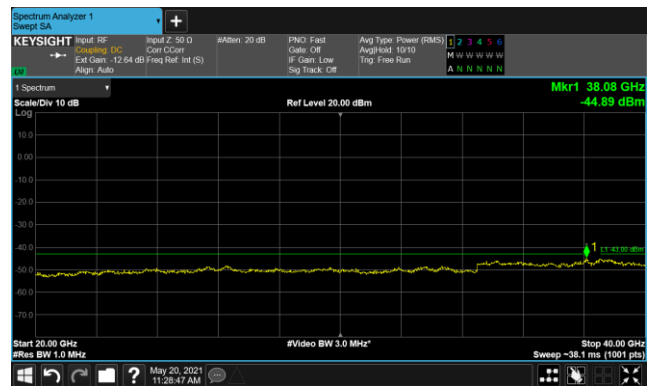


20GHz~40GHz

Highest channel



30MHz~20GHz

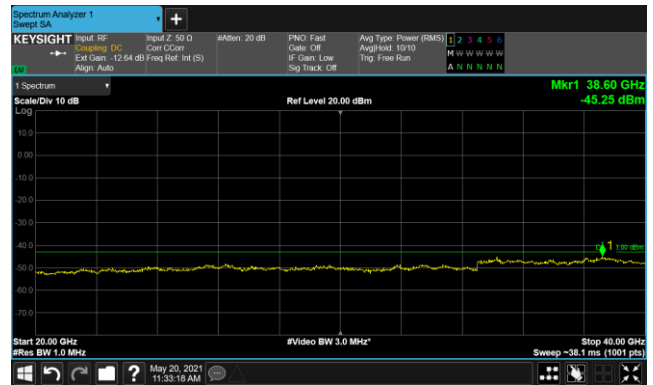


20GHz~40GHz

LTE Band 48(10 MHz 64QAM)-ANT 3  
Lowest channel



30MHz~20GHz

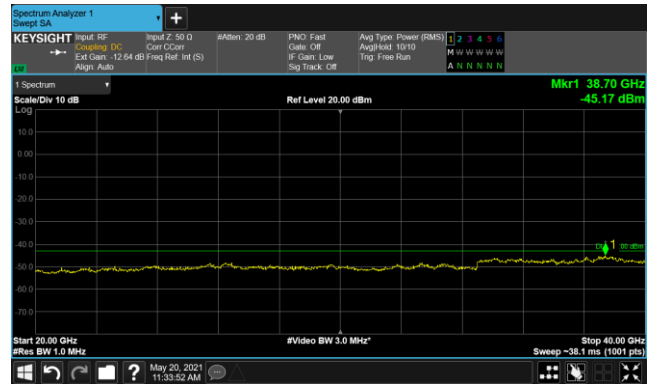


20GHz~40GHz

Middle channel

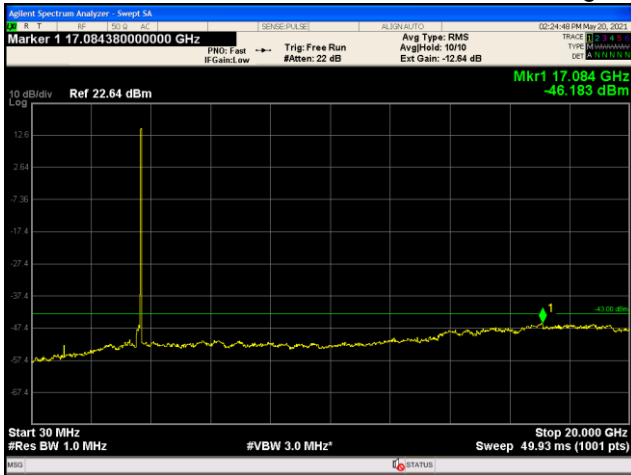


30MHz~20GHz

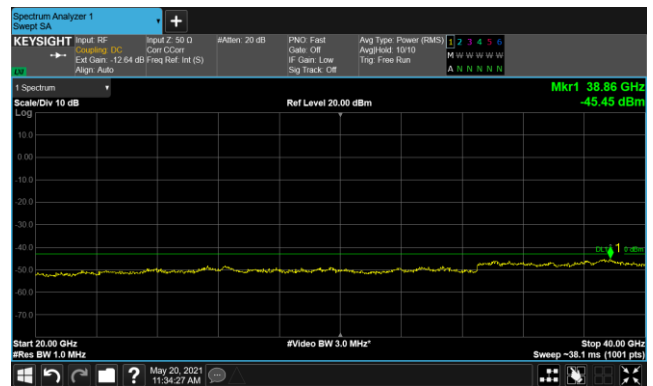


20GHz~40GHz

Highest channel

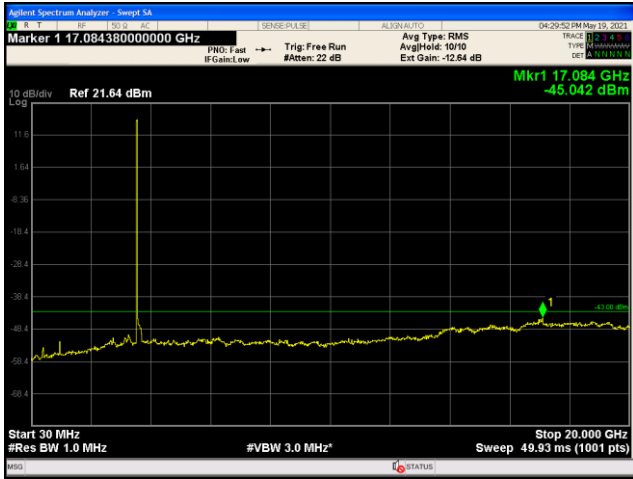


30MHz~20GHz

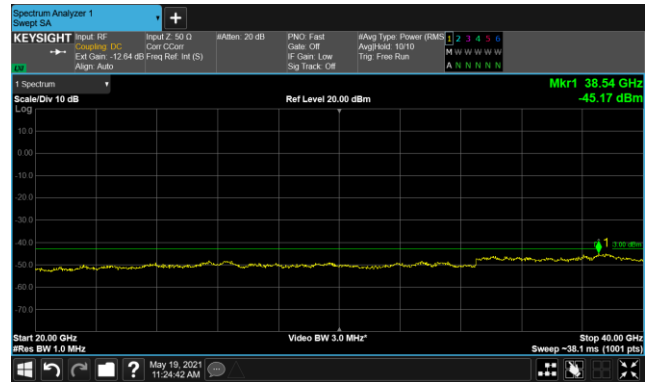


20GHz~40GHz

LTE Band 48(10 MHz QPSK)-ANT 0  
Lowest channel



30MHz~20GHz

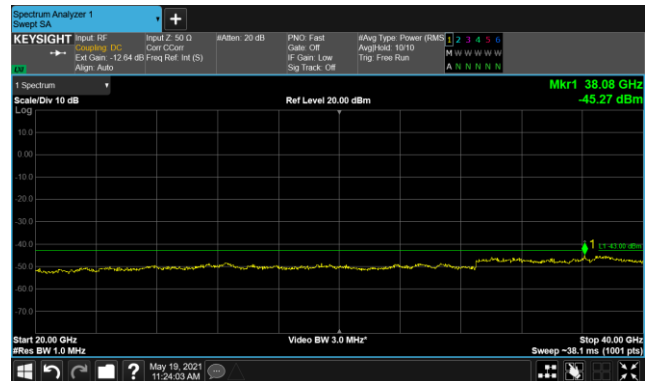


20GHz~40GHz

Middle channel

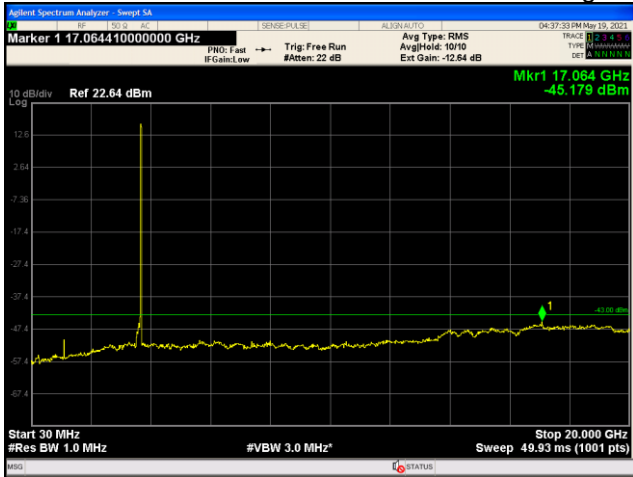


30MHz~20GHz

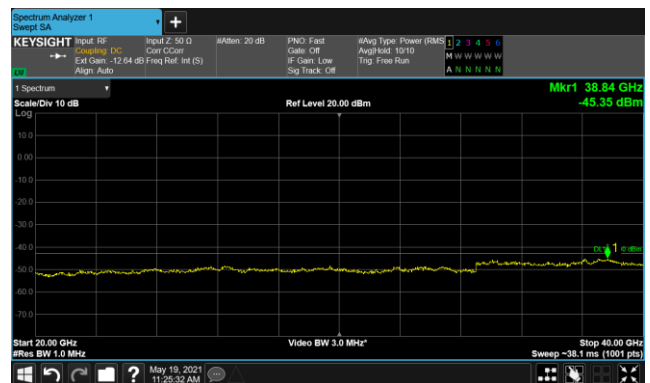


20GHz~40GHz

Highest channel

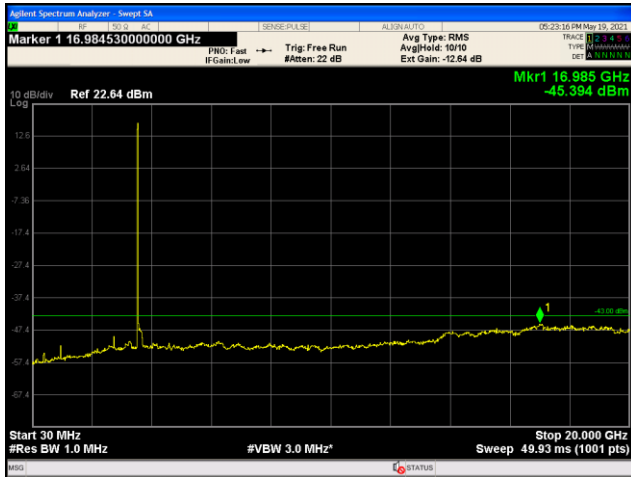


30MHz~20GHz

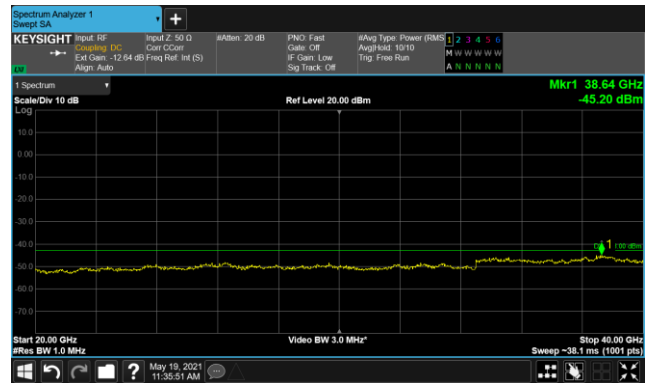


20GHz~40GHz

LTE Band 48(10 MHz QPSK)-ANT 1  
Lowest channel



30MHz~20GHz

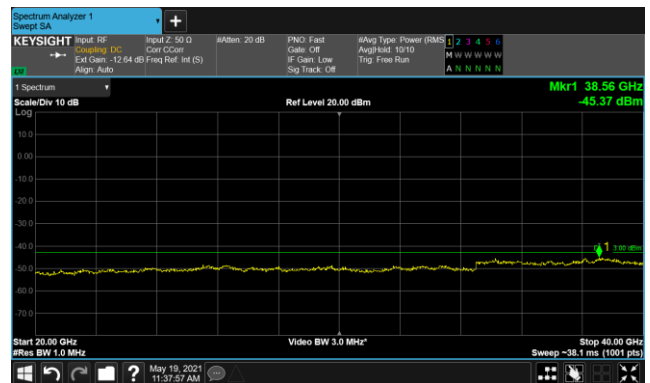


20GHz~40GHz

Middle channel



30MHz~20GHz

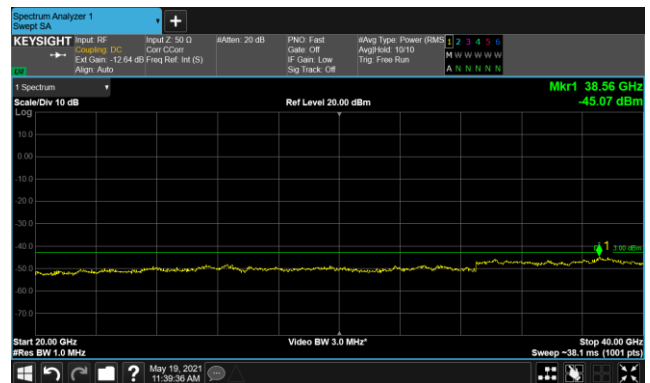


20GHz~40GHz

Highest channel



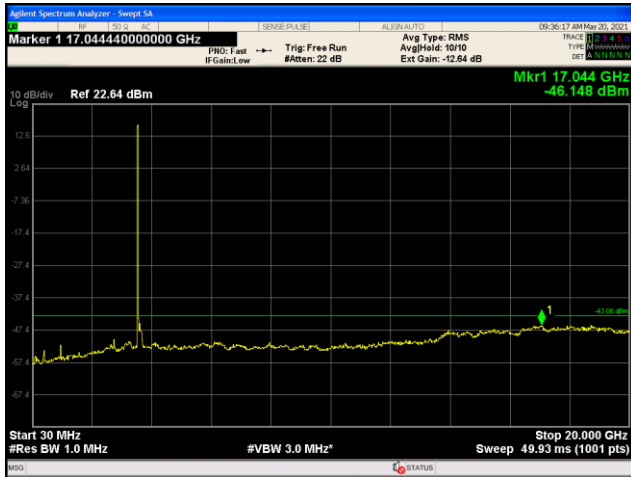
30MHz~20GHz



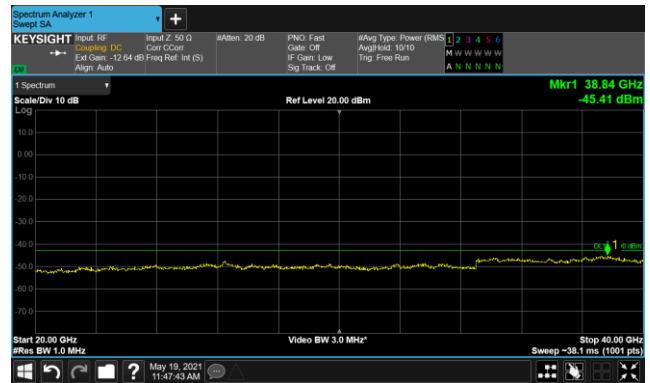
20GHz~40GHz



LTE Band 48(10 MHz QPSK)-ANT 2  
Lowest channel



30MHz~20GHz

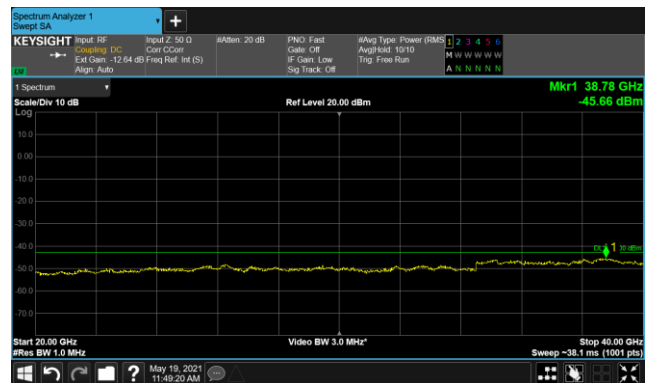


20GHz~40GHz

Middle channel



30MHz~20GHz

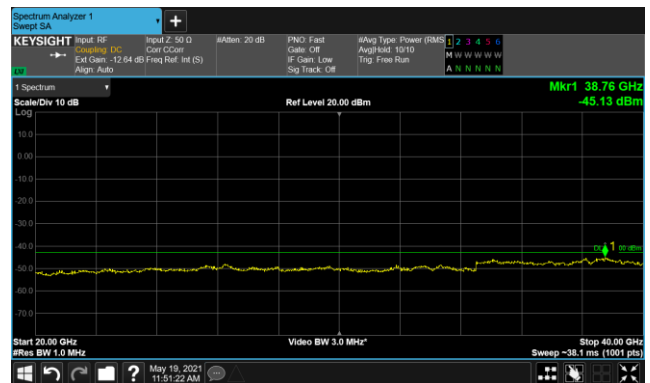


20GHz~40GHz

Highest channel



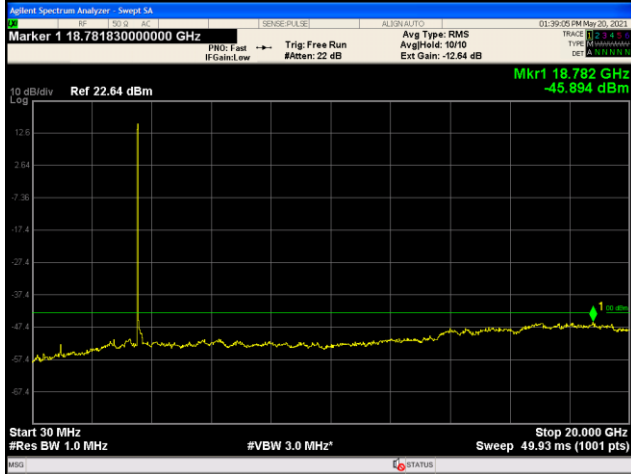
30MHz~20GHz



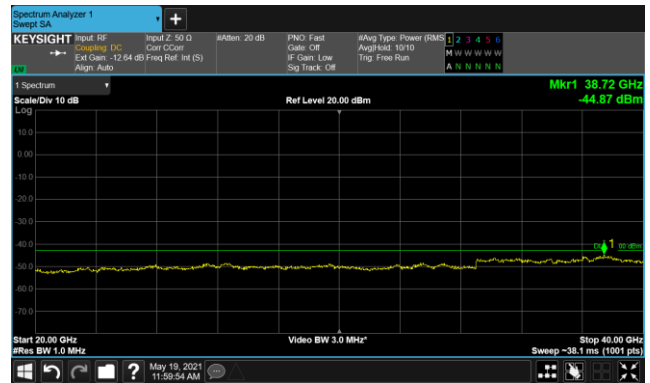
20GHz~40GHz



LTE Band 48(10 MHz QPSK)-ANT 3  
Lowest channel



30MHz~20GHz

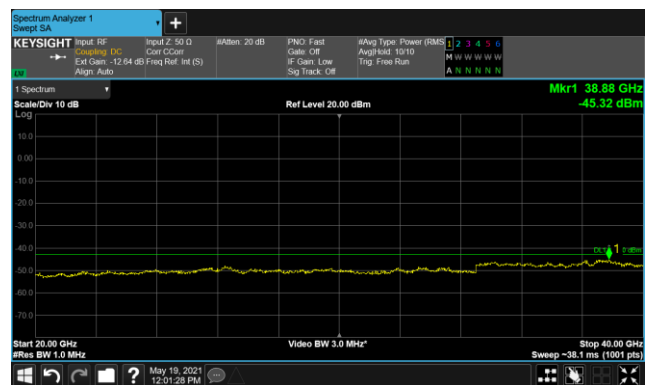


20GHz~40GHz

Middle channel



30MHz~20GHz

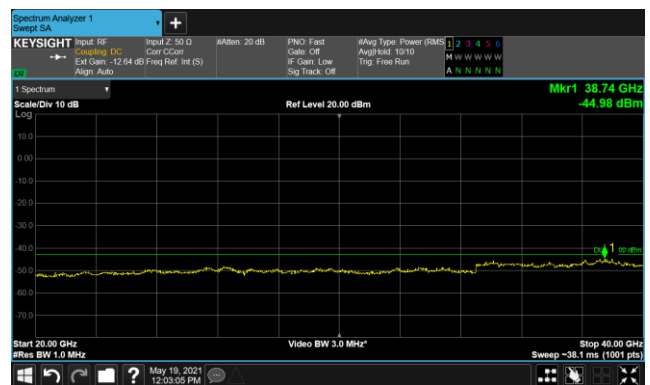


20GHz~40GHz

Highest channel

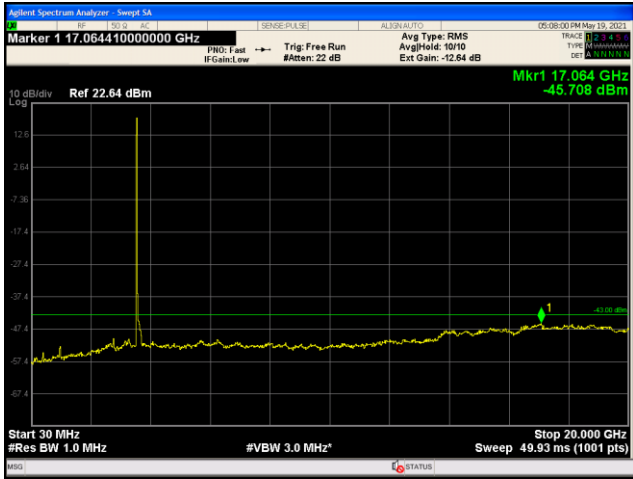


30MHz~20GHz

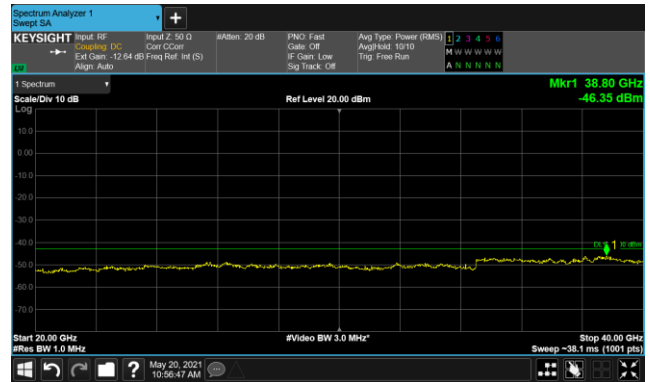


20GHz~40GHz

LTE Band 48(20 MHz 64QAM)-ANT 0  
Lowest channel

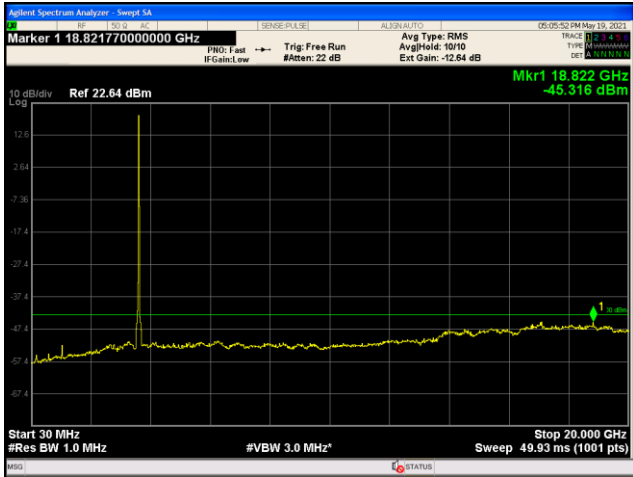


30MHz~20GHz

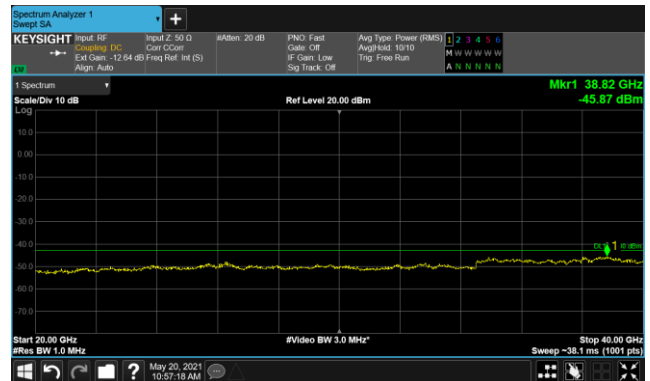


20GHz~40GHz

Middle channel



30MHz~20GHz

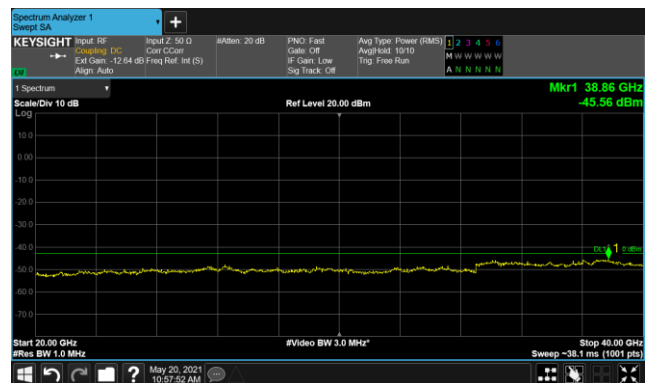


20GHz~40GHz

Highest channel



30MHz~20GHz

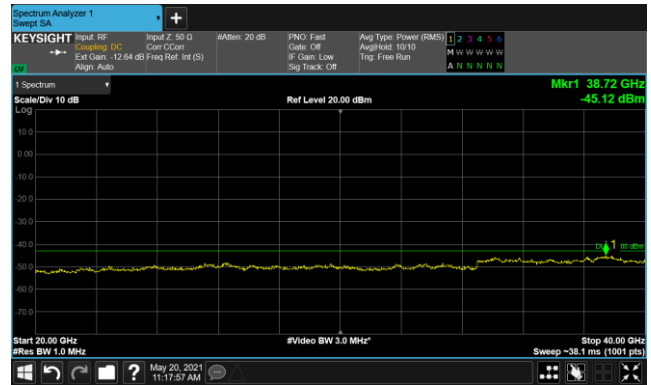


20GHz~40GHz

LTE Band 48(20 MHz 64QAM)-ANT 1  
Lowest channel



30MHz~20GHz

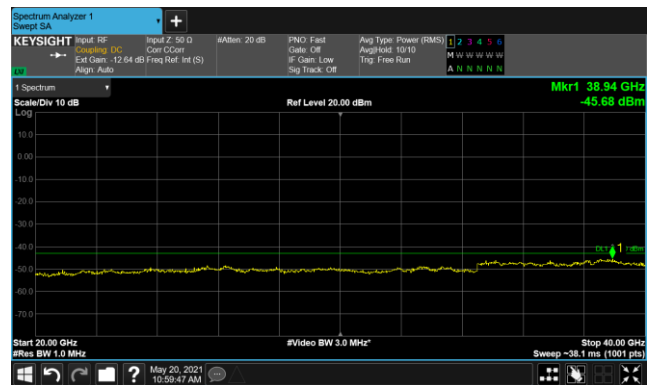


20GHz~40GHz

Middle channel



30MHz~20GHz

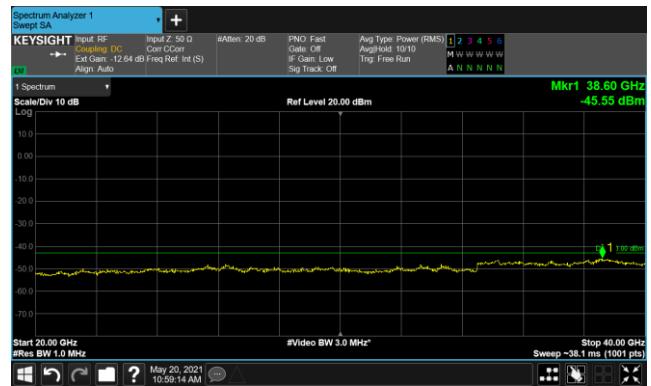


20GHz~40GHz

Highest channel

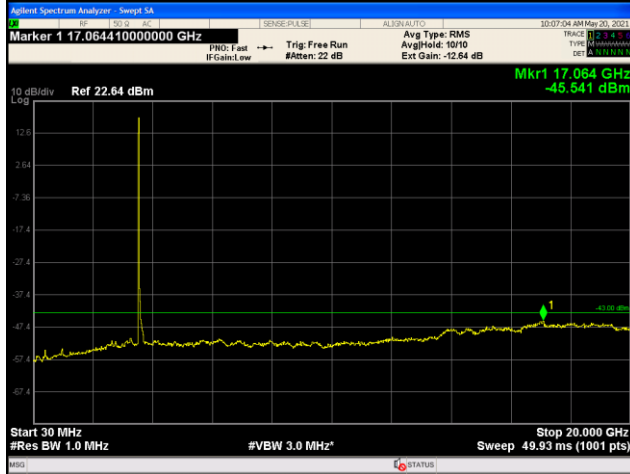


30MHz~20GHz

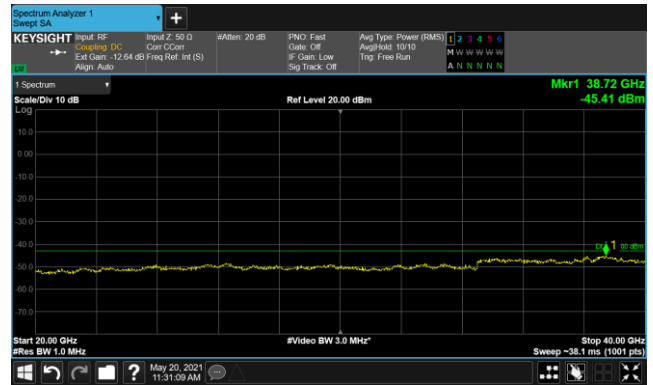


20GHz~40GHz

LTE Band 48(20 MHz 64QAM)-ANT 2  
Lowest channel



30MHz~20GHz

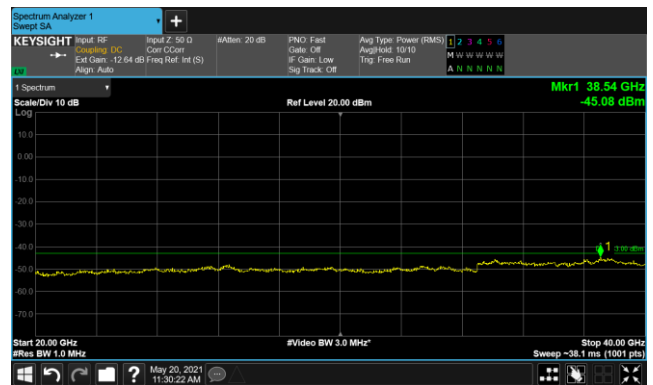


20GHz~40GHz

Middle channel



30MHz~20GHz

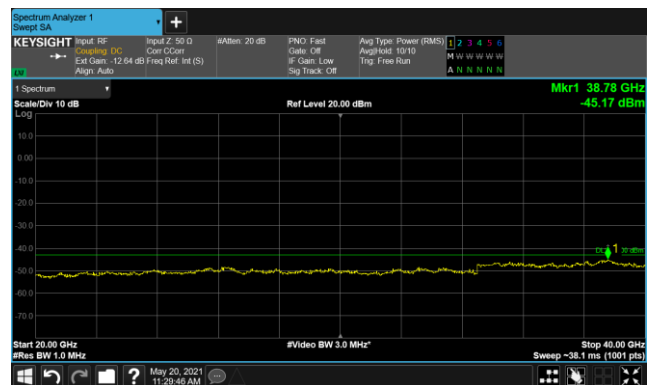


20GHz~40GHz

Highest channel

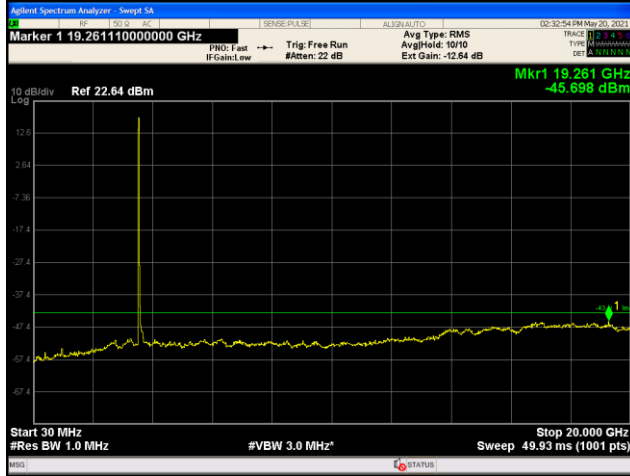


30MHz~20GHz

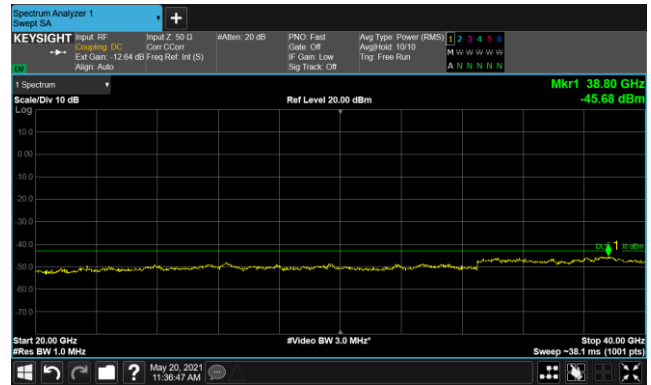


20GHz~40GHz

LTE Band 48(20 MHz 64QAM)-ANT 3  
Lowest channel



30MHz~20GHz

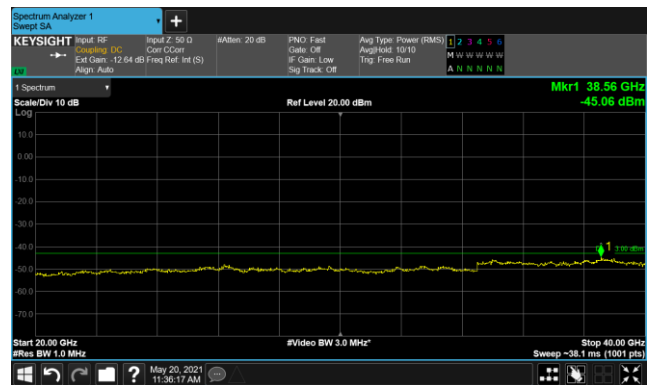


20GHz~40GHz

Middle channel



30MHz~20GHz

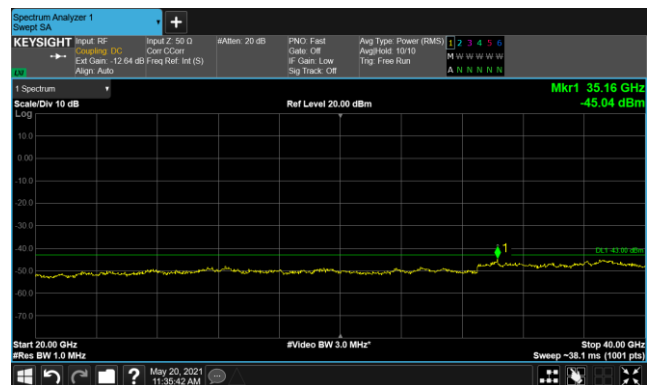


20GHz~40GHz

Highest channel

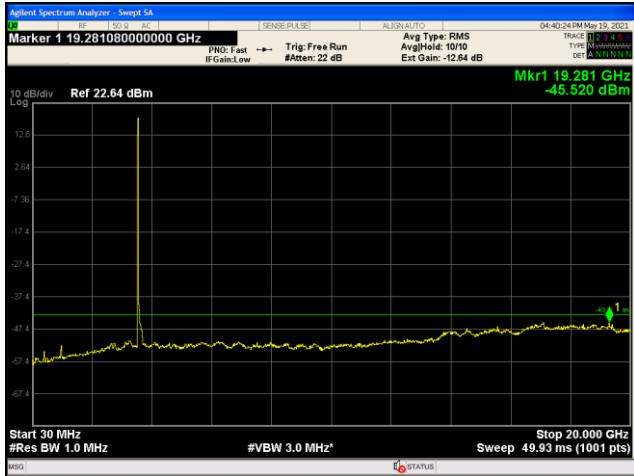


30MHz~20GHz

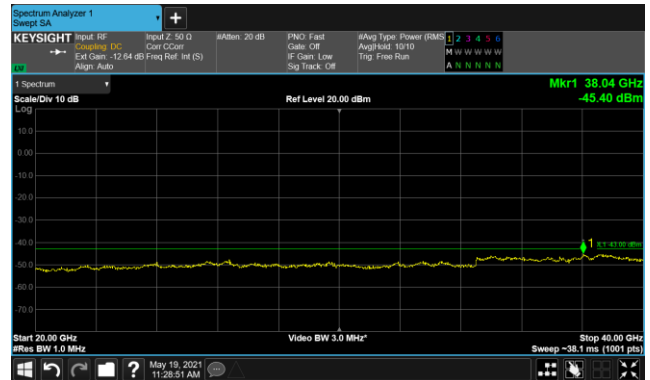


20GHz~40GHz

LTE Band 48(20 MHz QPSK)-ANT 0  
Lowest channel



30MHz~20GHz

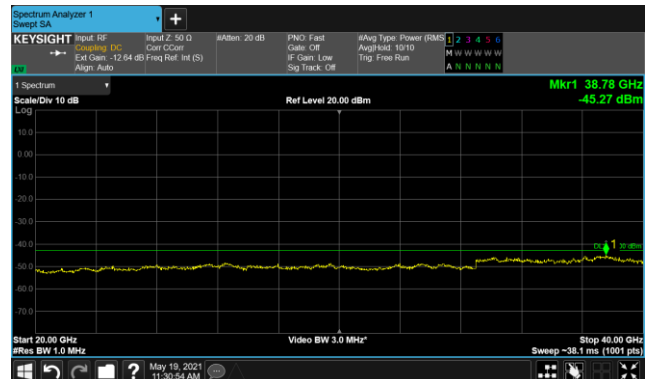


20GHz~40GHz

Middle channel

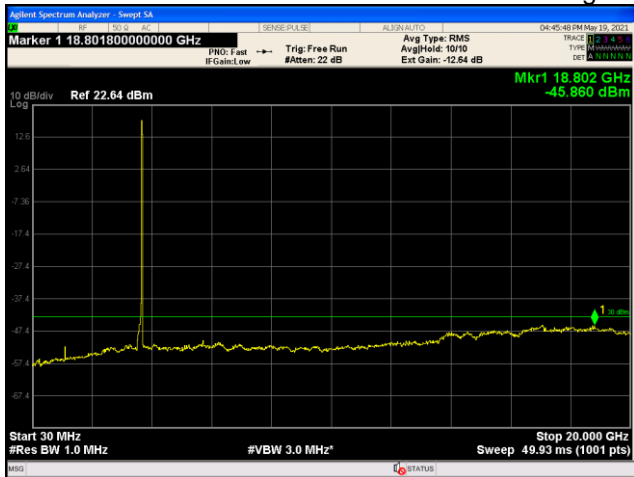


30MHz~20GHz

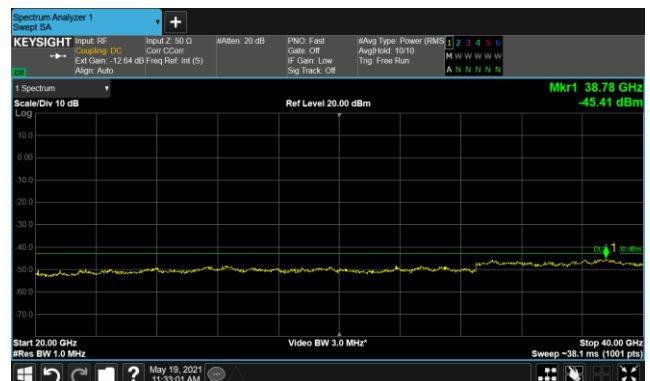


20GHz~40GHz

Highest channel



30MHz~20GHz

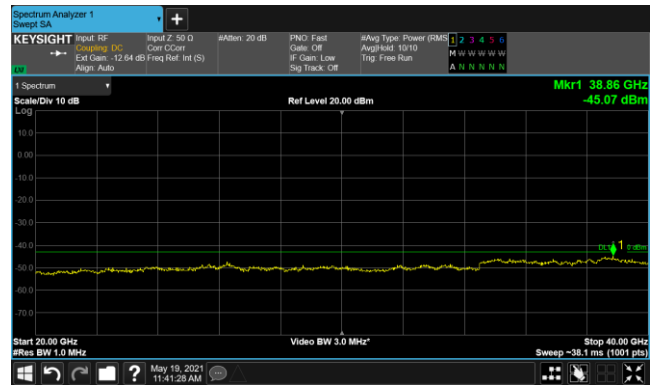


20GHz~40GHz

LTE Band 48(20 MHz QPSK)-ANT 1  
Lowest channel



30MHz~20GHz

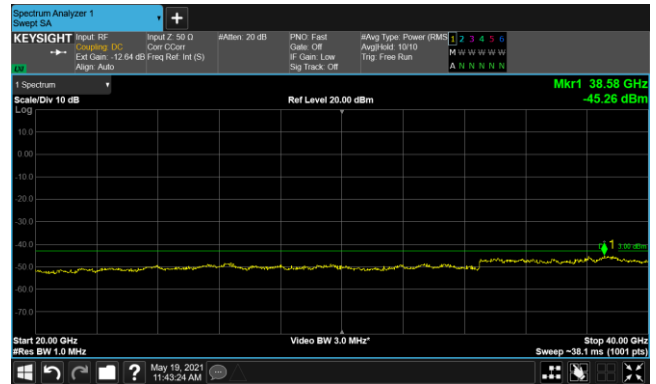


20GHz~40GHz

Middle channel



30MHz~20GHz

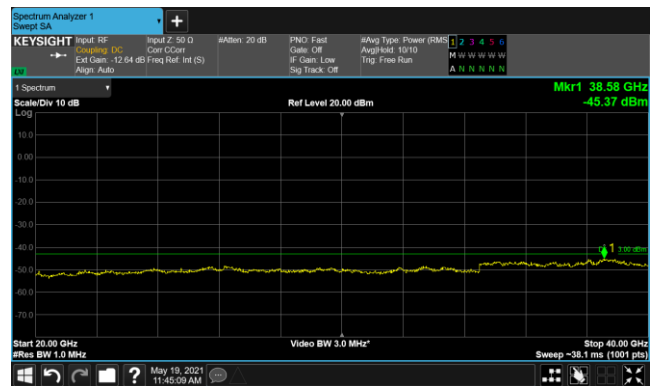


20GHz~40GHz

Highest channel



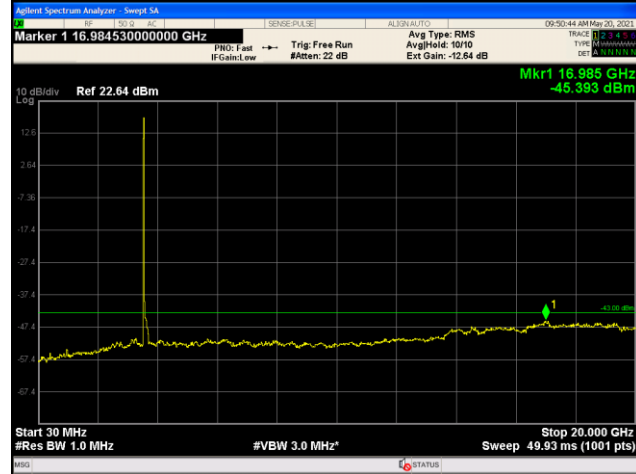
30MHz~20GHz



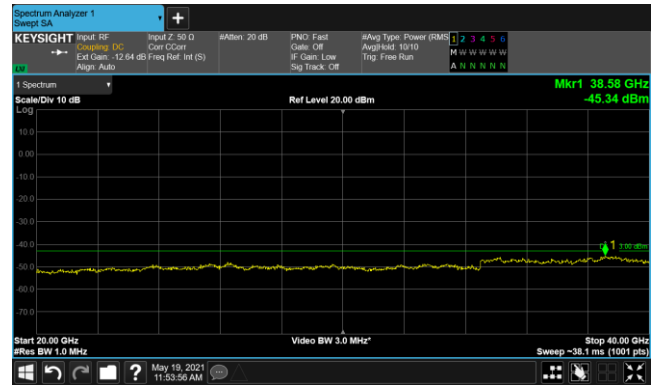
20GHz~40GHz



LTE Band 48(20 MHz QPSK)-ANT 2  
Lowest channel



30MHz~20GHz

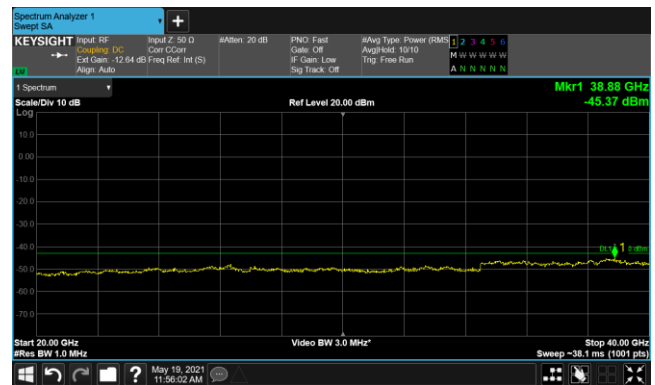


20GHz~40GHz

Middle channel



30MHz~20GHz

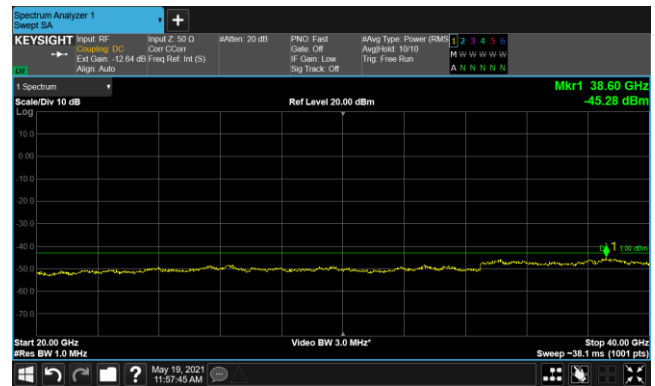


20GHz~40GHz

Highest channel

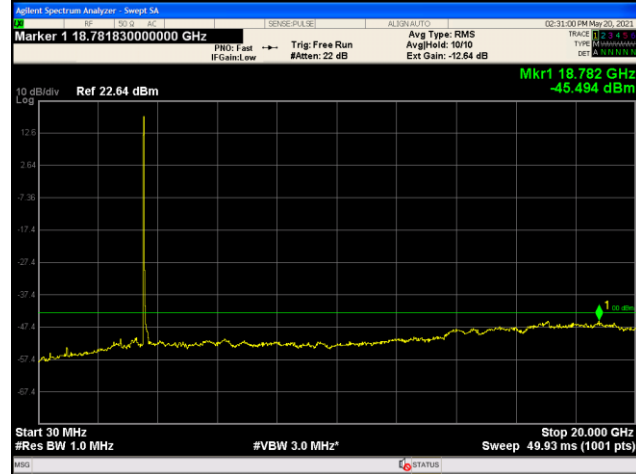


30MHz~20GHz

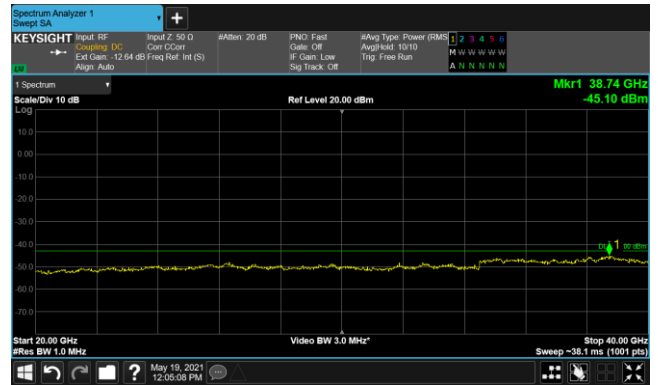


20GHz~40GHz

LTE Band 48(20 MHz QPSK)-ANT 3  
Lowest channel



30MHz~20GHz

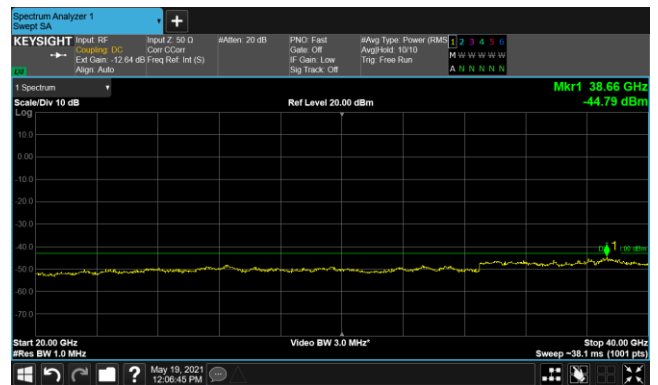


20GHz~40GHz

Middle channel



30MHz~20GHz

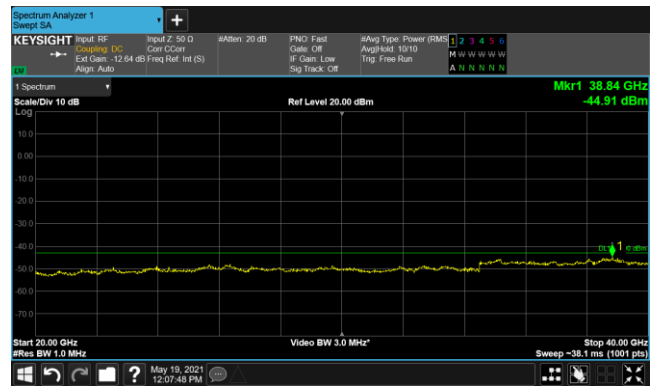


20GHz~40GHz

Highest channel

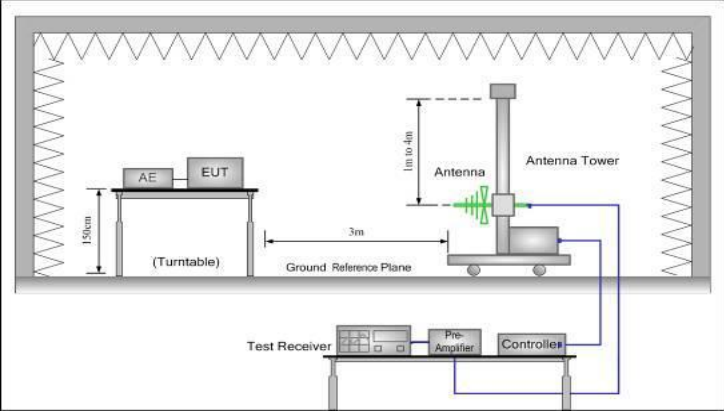
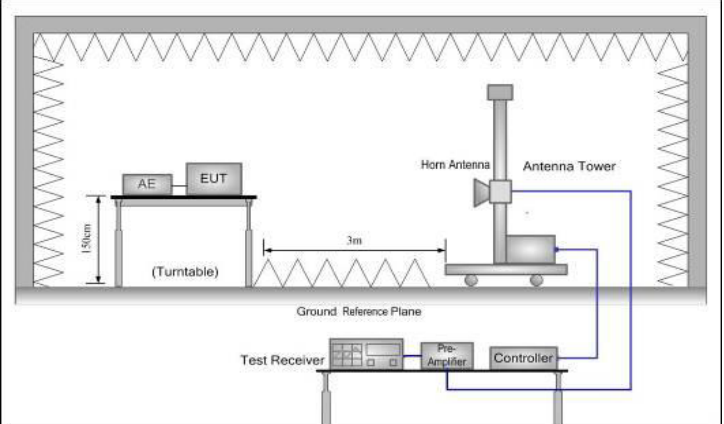
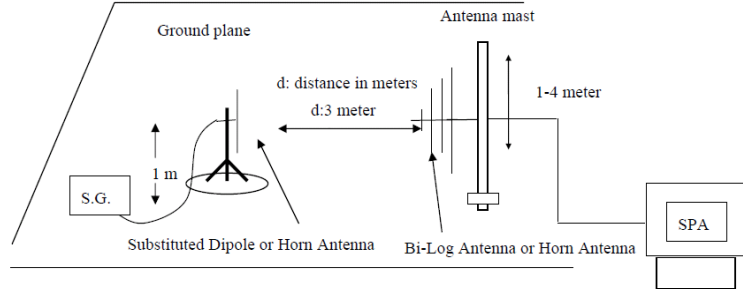


30MHz~20GHz



20GHz~40GHz

## 6.6 Field strength of spurious radiation measurement

Test Requirement:	Part 96.41(e)(1)(2)
Limit:	-40 dBm/MHz
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> </ol>

	<p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed
Remark:	During the test, pre-scan the QPSK, 64QAM modulation, and found the QPSK modulation is the worst case.

**Measurement Data (worst case):**

Band 48 (10 MHz) QPSK							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7110.00	-65.55	11.27	1.36	-55.64	-40.00	-15.64	Vertical
10665.00	-63.12	11.30	1.85	-53.67	-40.00	-13.67	Vertical
14220.00	-58.01	11.63	1.98	-48.36	-40.00	-8.36	Vertical
7110.00	-65.28	11.27	1.36	-55.37	-40.00	-15.37	Horizontal
10665.00	-62.27	11.30	1.85	-52.82	-40.00	-12.82	Horizontal
14220.00	-58.09	11.63	1.98	-48.44	-40.00	-8.44	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7250.00	-65.91	11.35	1.37	-55.93	-40.00	-15.93	Vertical
10875.00	-63.18	11.18	1.86	-53.86	-40.00	-13.86	Vertical
14500.00	-58.91	12.05	1.99	-48.85	-40.00	-8.85	Vertical
7250.00	-65.53	11.35	1.37	-55.55	-40.00	-15.55	Horizontal
10875.00	-62.58	11.18	1.86	-53.26	-40.00	-13.26	Horizontal
14500.00	-58.05	12.05	1.99	-47.99	-40.00	-7.99	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7390.00	-65.71	11.43	1.41	-55.69	-40.00	-15.69	Vertical
11085.00	-63.56	11.23	1.88	-54.21	-40.00	-14.21	Vertical
14780.00	-59.81	12.47	2.01	-49.35	-40.00	-9.35	Vertical
7390.00	-65.16	11.43	1.41	-55.14	-40.00	-15.14	Horizontal
11085.00	-62.26	11.23	1.88	-52.91	-40.00	-12.91	Horizontal
14780.00	-58.44	12.47	2.01	-47.98	-40.00	-7.98	Horizontal
<p><i>Remark:</i>                      The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</p>							

Band 48 (20 MHz) QPSK							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7120.00	-65.11	11.27	1.36	-55.20	-40.00	-15.20	Vertical
10680.00	-63.05	11.29	1.85	-53.61	-40.00	-13.61	Vertical
14240.00	-57.81	11.66	1.99	-48.14	-40.00	-8.14	Vertical
7120.00	-64.87	11.27	1.36	-54.96	-40.00	-14.96	Horizontal
10680.00	-62.26	11.29	1.85	-52.82	-40.00	-12.82	Horizontal
14240.00	-58.59	11.66	1.99	-48.92	-40.00	-8.92	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7250.00	-65.54	11.35	1.37	-55.56	-40.00	-15.56	Vertical
10875.00	-63.27	11.18	1.86	-53.95	-40.00	-13.95	Vertical
14500.00	-58.12	12.05	1.99	-48.06	-40.00	-8.06	Vertical
7250.00	-65.17	11.35	1.37	-55.19	-40.00	-15.19	Horizontal
10875.00	-62.24	11.18	1.86	-52.92	-40.00	-12.92	Horizontal
14500.00	-59.15	12.05	1.99	-49.09	-40.00	-9.09	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
7380.00	-65.36	11.43	1.41	-55.34	-40.00	-15.34	Vertical
11070.00	-63.18	11.21	1.88	-53.85	-40.00	-13.85	Vertical
14760.00	-58.04	12.44	2.00	-47.60	-40.00	-7.60	Vertical
7380.00	-65.41	11.43	1.41	-55.39	-40.00	-15.39	Horizontal
11070.00	-61.79	11.21	1.88	-52.46	-40.00	-12.46	Horizontal
14760.00	-59.91	12.44	2.00	-49.47	-40.00	-9.47	Horizontal
<i>Remark:</i>							
<i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i>							

### 6.7 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(b)																																																																														
Limit:	<p>FCC:</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th rowspan="2">Fixed and base stations (±ppm)</th> <th colspan="2">Mobile stations (±ppm)</th> </tr> <tr> <th>Over 2 watts output power</th> <th>2 watts or less output power</th> </tr> </thead> <tbody> <tr><td>Below 25</td><td>100</td><td>100</td><td>200</td></tr> <tr><td>25-50</td><td>20</td><td>20</td><td>50</td></tr> <tr><td>72-76</td><td>5</td><td></td><td>50</td></tr> <tr><td>150-174</td><td>5</td><td>5</td><td>50</td></tr> <tr><td>216-220</td><td>1.0</td><td></td><td>1.0</td></tr> <tr><td>220-222</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>421-512</td><td>2.5</td><td>5</td><td>5</td></tr> <tr><td>806-809</td><td>1.0</td><td>1.5</td><td>1.5</td></tr> <tr><td>809-824</td><td>1.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>851-854</td><td>1.0</td><td>1.5</td><td>1.5</td></tr> <tr><td>854-869</td><td>1.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>896-901</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>902-928</td><td>2.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>902-928</td><td>2.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>929-930</td><td>1.5</td><td></td><td></td></tr> <tr><td>935-940</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>1427-1435</td><td>300</td><td>300</td><td>300</td></tr> <tr><td>Above 2450</td><td></td><td></td><td></td></tr> </tbody> </table>	Frequency range (MHz)	Fixed and base stations (±ppm)	Mobile stations (±ppm)		Over 2 watts output power	2 watts or less output power	Below 25	100	100	200	25-50	20	20	50	72-76	5		50	150-174	5	5	50	216-220	1.0		1.0	220-222	0.1	1.5	1.5	421-512	2.5	5	5	806-809	1.0	1.5	1.5	809-824	1.5	2.5	2.5	851-854	1.0	1.5	1.5	854-869	1.5	2.5	2.5	896-901	0.1	1.5	1.5	902-928	2.5	2.5	2.5	902-928	2.5	2.5	2.5	929-930	1.5			935-940	0.1	1.5	1.5	1427-1435	300	300	300	Above 2450			
Frequency range (MHz)	Fixed and base stations (±ppm)			Mobile stations (±ppm)																																																																											
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Test setup:	<p>Note : Measurement setup for testing on Antenna connector</p>																																																																														
Test procedure:	<ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol>																																																																														
Test Instruments:	Refer to section 5.10 for details																																																																														
Test mode:	Refer to section 5.3 for details																																																																														
Test results:	Passed																																																																														
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.																																																																														

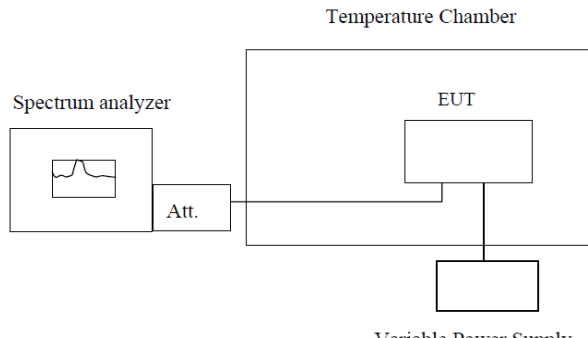


**Measurement Data (the worst channel):**

Reference Frequency: Lowest channel=3555.0MHz(10MHz for QPSK)			
Power supplied (Vac)	Temperature (°C)	Frequency error	
		Hz	ppm
120.00	-40	126	0.035443
	-30	192	0.054008
	-20	191	0.053727
	-10	187	0.052602
	0	176	0.049508
	10	180	0.050633
	20	144	0.040506
	30	150	0.042194
	40	132	0.037131
	50	126	0.035443
	55	128	0.036006
Reference Frequency: Lowest channel=3560.0MHz(20MHz for QPSK)			
Power supplied (Vac)	Temperature (°C)	Frequency error	
		Hz	ppm
120.00	-40	203	0.057103
	-30	190	0.053446
	-20	189	0.053165
	-10	187	0.052528
	0	165	0.046348
	10	174	0.048876
	20	123	0.034551
	30	160	0.044944
	40	144	0.040449
	50	150	0.042135
	55	147	0.041350

Reference Frequency: Lowest channel=3555.0MHz(10MHz for 64QAM)			
Power supplied (Vac)	Temperature (°C)	Frequency error	
		Hz	ppm
120.00	-40	214	0.060197
	-30	206	0.057947
	-20	203	0.057103
	-10	186	0.073373
	0	181	0.050914
	10	165	0.046414
	20	171	0.048101
	30	123	0.034599
	40	132	0.037131
	50	136	0.038256
	55	138	0.038819
Reference Frequency: Lowest channel=3560.0MHz(20MHz for 64QAM)			
Power supplied (Vac)	Temperature (°C)	Frequency error	
		Hz	ppm
120.00	-40	212	0.059634
	-30	207	0.058228
	-20	201	0.056540
	-10	198	0.055618
	0	180	0.050562
	10	156	0.043820
	20	132	0.037079
	30	144	0.040449
	40	171	0.048034
	50	105	0.029494
	55	121	0.034037

### 6.8 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(b)																																																																														
Limit:	<p>FCC:</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th rowspan="2">Fixed and base stations (±ppm)</th> <th colspan="2">Mobile stations (±ppm)</th> </tr> <tr> <th>Over 2 watts output power</th> <th>2 watts or less output power</th> </tr> </thead> <tbody> <tr><td>Below 25</td><td>100</td><td>100</td><td>200</td></tr> <tr><td>25-50</td><td>20</td><td>20</td><td>50</td></tr> <tr><td>72-76</td><td>5</td><td></td><td>50</td></tr> <tr><td>150-174</td><td>5</td><td>5</td><td>50</td></tr> <tr><td>216-220</td><td>1.0</td><td></td><td>1.0</td></tr> <tr><td>220-222</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>421-512</td><td>2.5</td><td>5</td><td>5</td></tr> <tr><td>806-809</td><td>1.0</td><td>1.5</td><td>1.5</td></tr> <tr><td>809-824</td><td>1.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>851-854</td><td>1.0</td><td>1.5</td><td>1.5</td></tr> <tr><td>854-869</td><td>1.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>896-901</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>902-928</td><td>2.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>902-928</td><td>2.5</td><td>2.5</td><td>2.5</td></tr> <tr><td>929-930</td><td>1.5</td><td></td><td></td></tr> <tr><td>935-940</td><td>0.1</td><td>1.5</td><td>1.5</td></tr> <tr><td>1427-1435</td><td>300</td><td>300</td><td>300</td></tr> <tr><td>Above 2450</td><td></td><td></td><td></td></tr> </tbody> </table>	Frequency range (MHz)	Fixed and base stations (±ppm)	Mobile stations (±ppm)		Over 2 watts output power	2 watts or less output power	Below 25	100	100	200	25-50	20	20	50	72-76	5		50	150-174	5	5	50	216-220	1.0		1.0	220-222	0.1	1.5	1.5	421-512	2.5	5	5	806-809	1.0	1.5	1.5	809-824	1.5	2.5	2.5	851-854	1.0	1.5	1.5	854-869	1.5	2.5	2.5	896-901	0.1	1.5	1.5	902-928	2.5	2.5	2.5	902-928	2.5	2.5	2.5	929-930	1.5			935-940	0.1	1.5	1.5	1427-1435	300	300	300	Above 2450			
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Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>																																																																														
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>																																																																														
Test Instruments:	Refer to section 5.10 for details																																																																														
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.																																																																														
Test results:	Passed																																																																														
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.																																																																														

**Measurement Data (the worst channel):**

Reference Frequency: Lowest channel=3555.0MHz(10MHz for QPSK)			
Temperature (°C)	Power supplied (Vac)	Frequency error	
		Hz	ppm
25	102.00	89	0.025035
	120.00	78	0.021941
	138.00	90	0.025316
Reference Frequency: Lowest channel=3560.0MHz(20MHz for QPSK)			
Temperature (°C)	Power supplied (Vac)	Frequency error	
		Hz	ppm
25	102.00	99	0.027809
	120.00	71	0.019944
	138.00	80	0.022472

Reference Frequency: Lowest channel=3555.0MHz(10MHz for 64QAM)			
Temperature (°C)	Power supplied (Vac)	Frequency error	
		Hz	ppm
25	102.00	84	0.023629
	120.00	96	0.027004
	138.00	73	0.020534
Reference Frequency: Lowest channel=3560.0MHz(20MHz for 64QAM)			
Temperature (°C)	Power supplied (Vac)	Frequency error	
		Hz	ppm
25	102.00	98	0.027528
	120.00	85	0.023876
	138.00	60	0.016854