

Mode 2

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	4#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

BLE-1Mbps Out-of-Band Emissions
Channel 00 (2402MHz)

100kHz PSD Reference Level

Marker Frequency: 2.402254250 GHz
Peak Search: 7.82 dBm

Low Band Edge

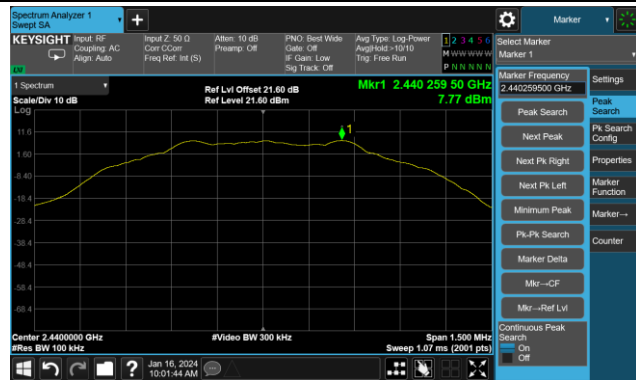
Marker Frequency: 2.400000000 GHz
Peak Search: -52.36 dBm

Spurious Emission 30MHz ~ 25GHz

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	10.124 GHz	-47.21 dBm			
2	N	1	17.359 GHz	-45.48 dBm			
3	N	1	21.679 GHz	-44.89 dBm			

Channel 19 (2440MHz)

100kHz PSD Reference Level

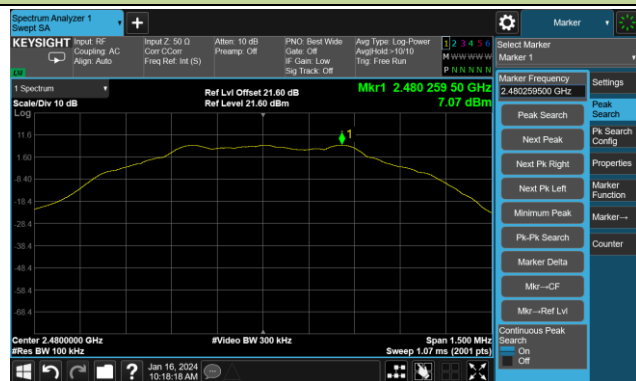


Spurious Emission 30MHz ~ 25GHz

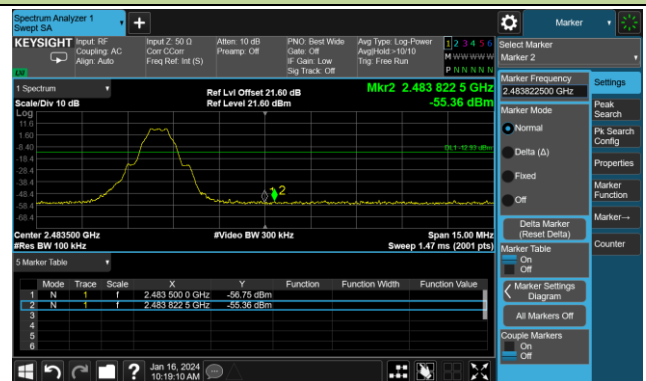


Channel 39 (2480MHz)

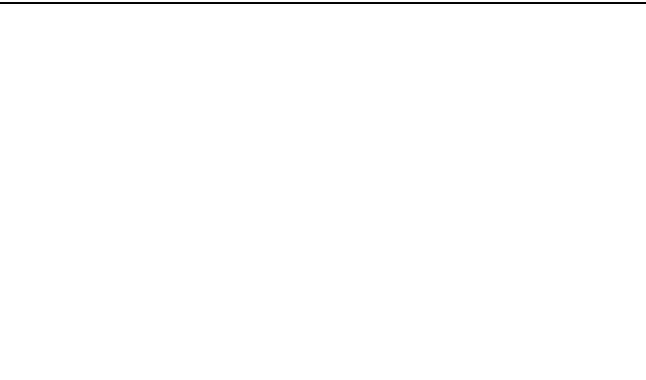
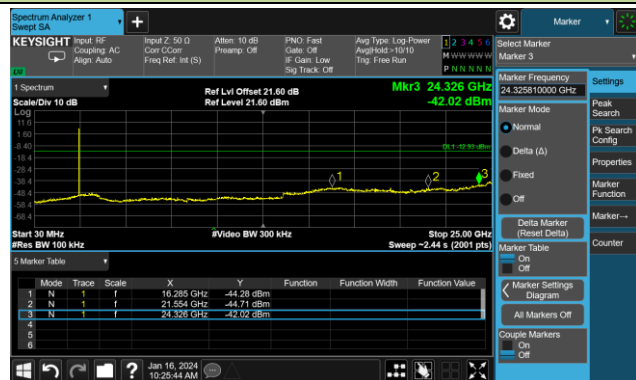
100kHz PSD Reference Level



High Band Edge



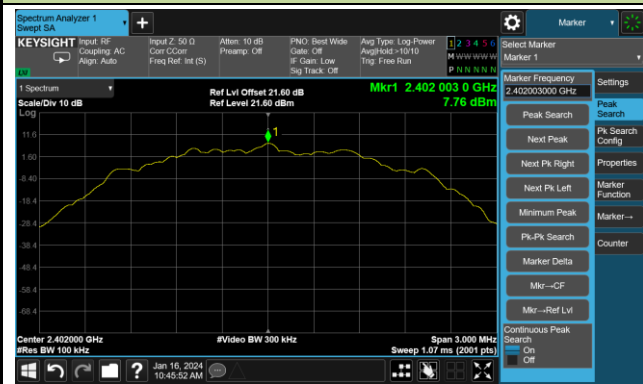
Spurious Emission 30MHz ~ 25GHz



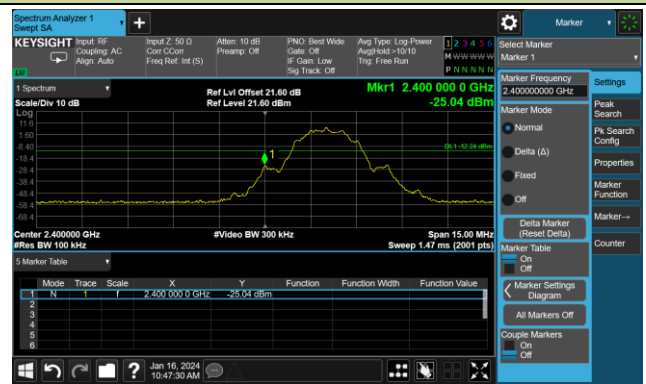
BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

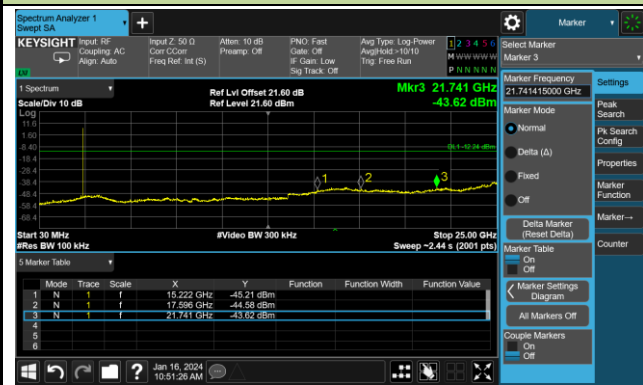
100kHz PSD Reference Level



Low Band Edge



Spurious Emission 30MHz ~ 25GHz

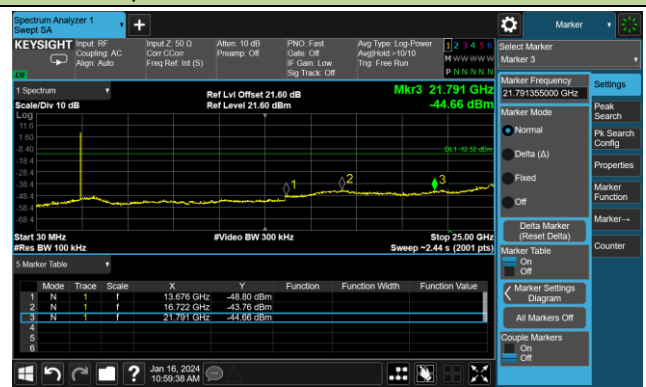


Channel 19 (2440MHz)

100kHz PSD Reference Level



Spurious Emission 30MHz ~ 25GHz

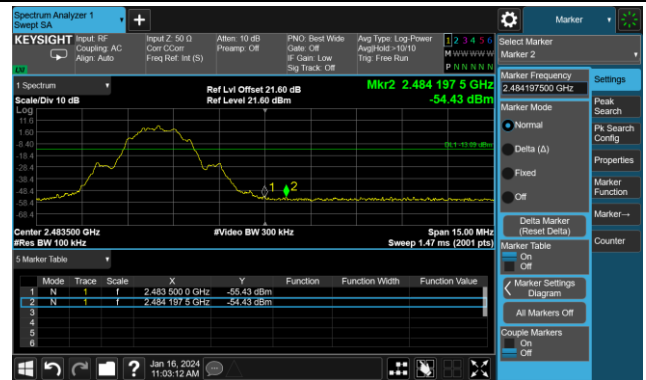


Channel 39 (2480MHz)

100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	5#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	2	00	2402	20	Pass

BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

100kHz PSD Reference Level

Marker Frequency: 2.402254250 GHz
 Peak Search: On
 Peak Search Config: On
 Properties: On
 Marker Function: On
 Counter: On

Low Band Edge

Marker Frequency: 2.399970000 GHz
 Peak Search: On
 Peak Search Config: On
 Properties: On
 Marker Function: On
 Counter: On

Spurious Emission 30MHz ~ 25GHz

Marker Frequency: 21.617 GHz
 Peak Search: On
 Peak Search Config: On
 Properties: On
 Marker Function: On
 Counter: On



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	6#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	39	2480	20	Pass
BLE	2	39	2480	20	Pass

BLE-1Mbps Out-of-Band Emissions

Channel 39 (2480MHz)

100kHz PSD Reference Level

Marker Frequency: 2.480249750 GHz
Level: 7.19 dBm
Ref Level: 21.60 dBm

High Band Edge

Marker Frequency: 2.4837700 GHz
Level: -54.17 dBm
Ref Level: 21.60 dBm

Spurious Emission 30MHz ~ 25GHz

Marker Frequency: 21.879 GHz
Level: -43.68 dBm
Ref Level: 21.60 dBm

BLE-2Mbps Out-of-Band Emissions

Channel 39 (2480MHz)

100kHz PSD Reference Level



High Band Edge



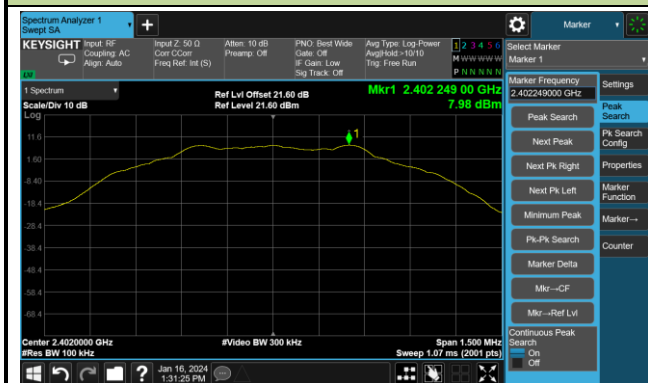
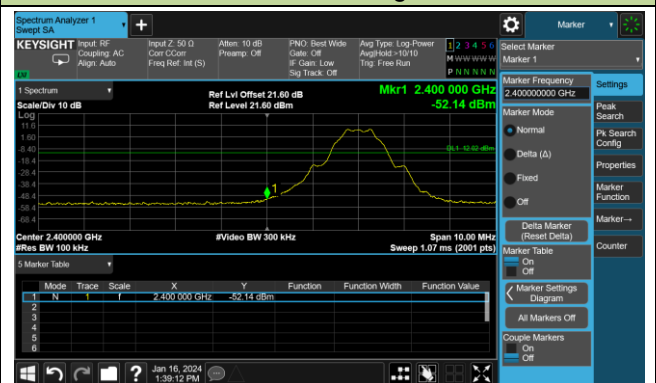
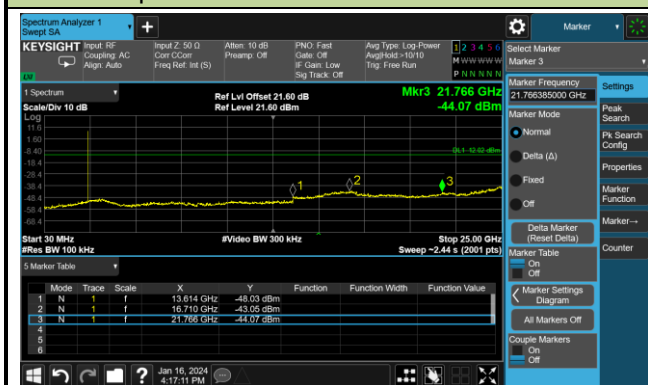
Spurious Emission 30MHz ~ 25GHz



Mode 3

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	7#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

BLE-1Mbps Out-of-Band Emissions
Channel 00 (2402MHz)
100kHz PSD Reference Level

Low Band Edge

Spurious Emission 30MHz ~ 25GHz


Channel 19 (2440MHz)

100kHz PSD Reference Level

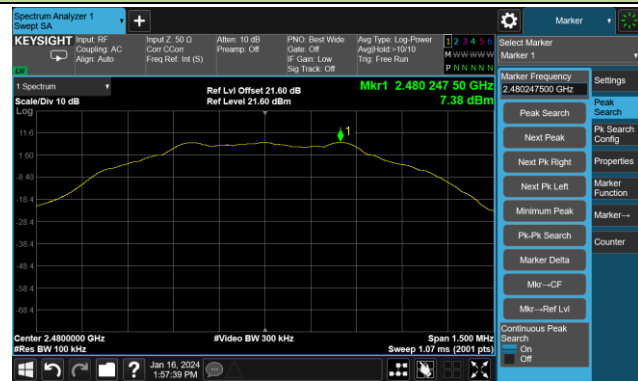


Spurious Emission 30MHz ~ 25GHz

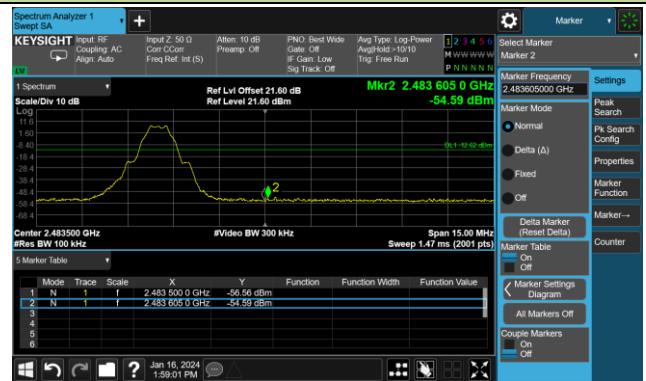


Channel 39 (2480MHz)

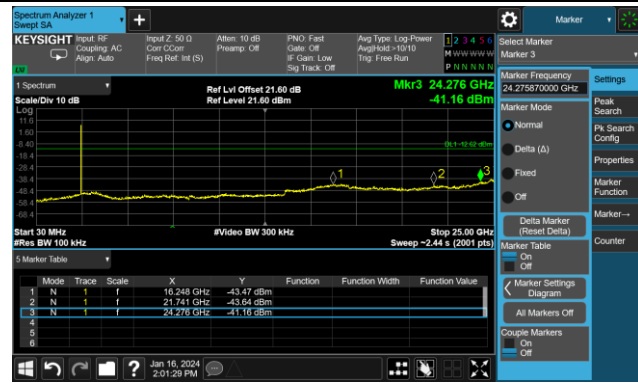
100kHz PSD Reference Level



High Band Edge



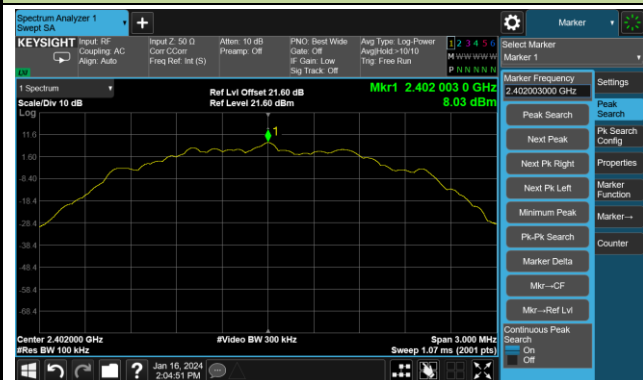
Spurious Emission 30MHz ~ 25GHz



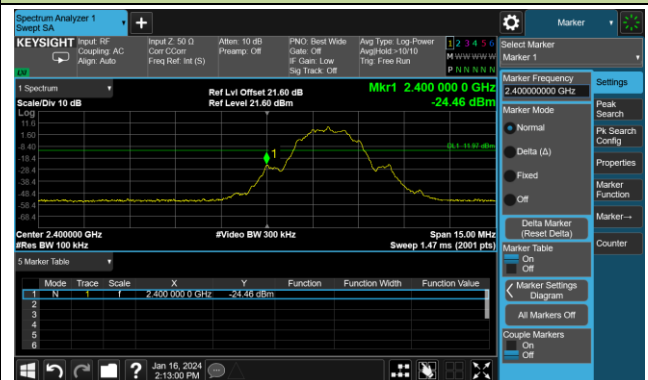
BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

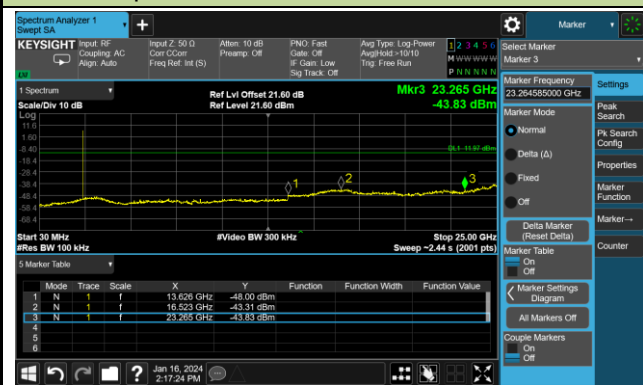
100kHz PSD Reference Level



Low Band Edge



Spurious Emission 30MHz ~ 25GHz



Channel 19 (2440MHz)

100kHz PSD Reference Level



Spurious Emission 30MHz ~ 25GHz



Channel 39 (2480MHz)

100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz

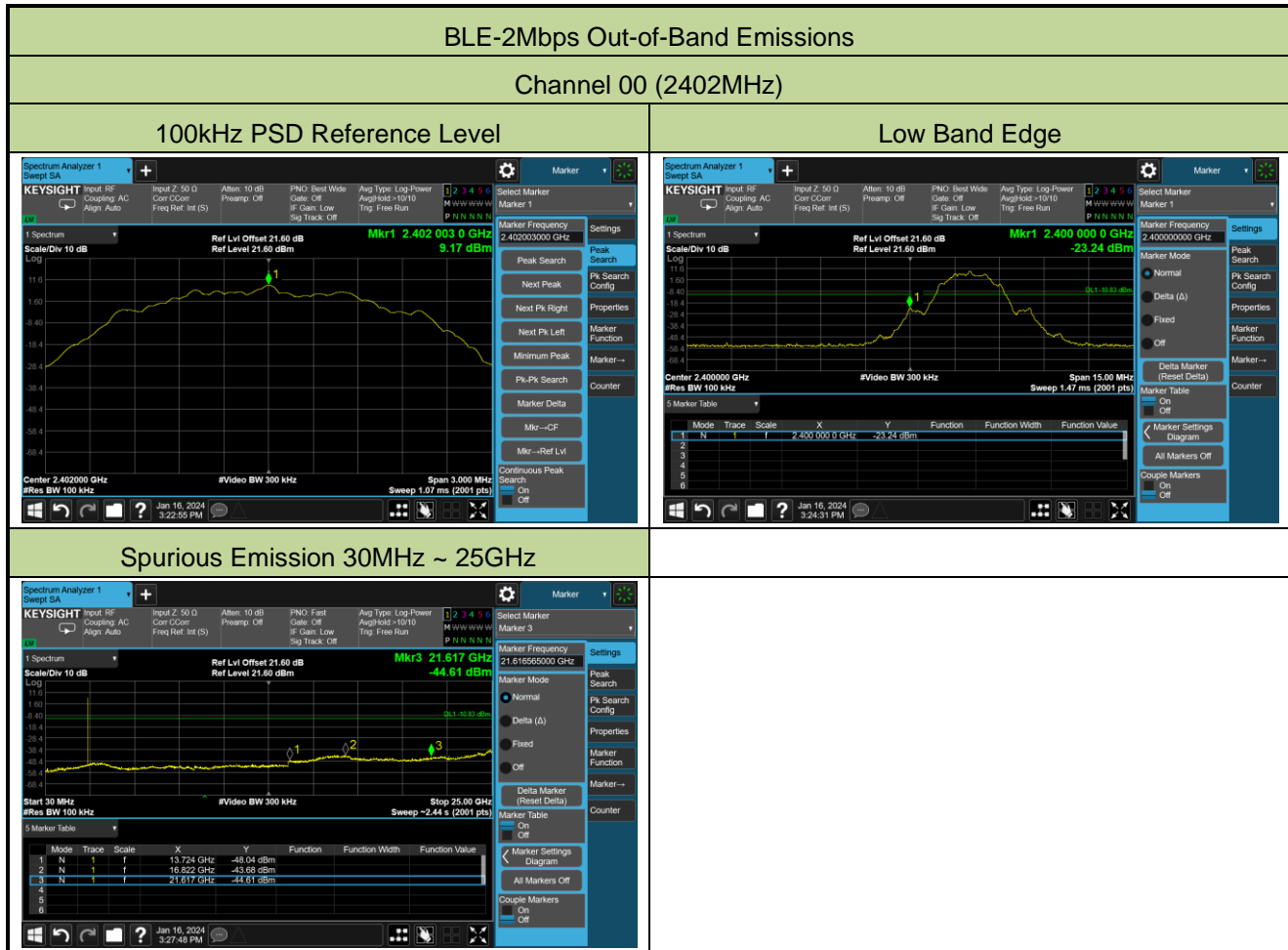


Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	8#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	2	00	2402	20	Pass

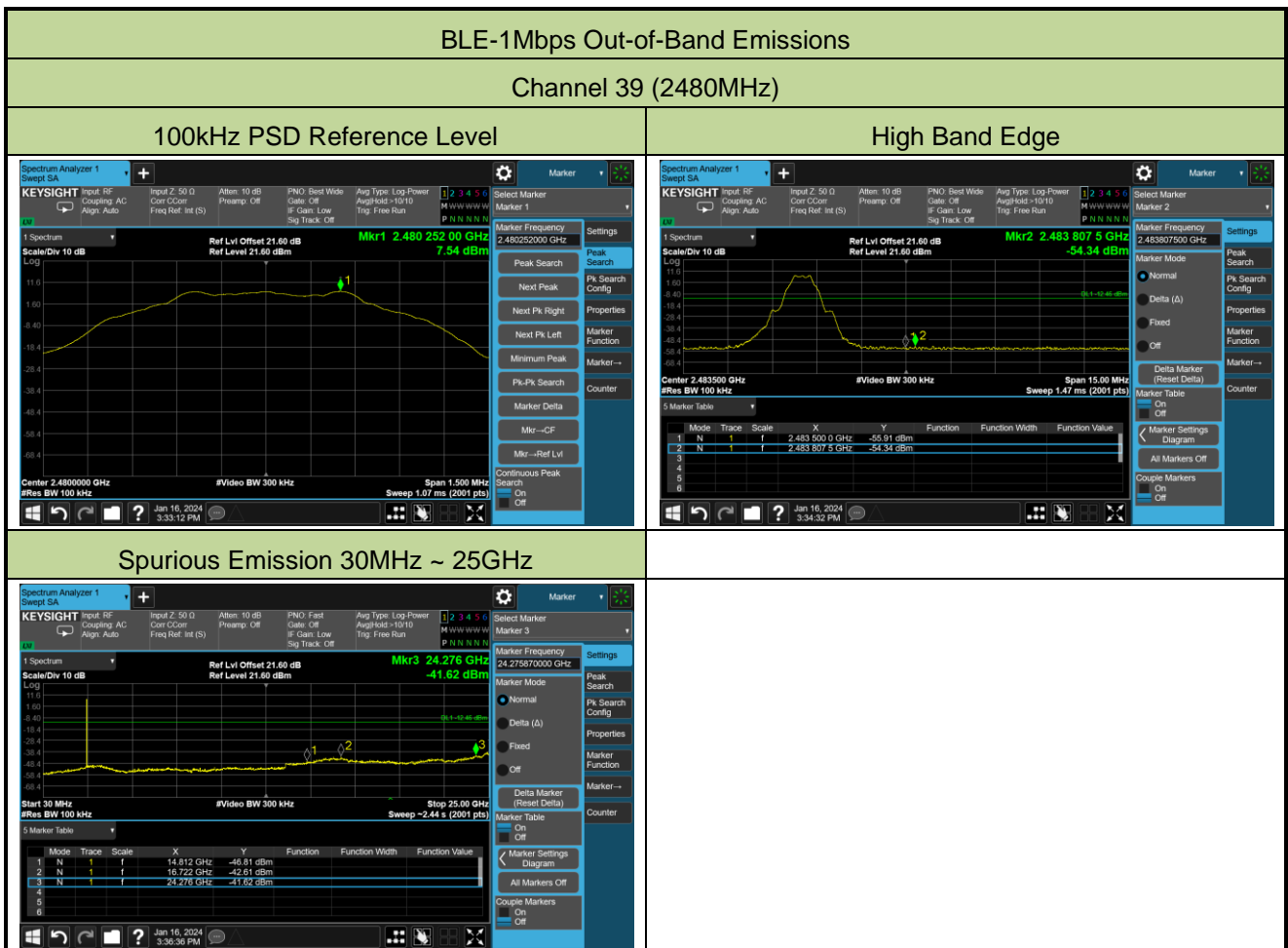
BLE-1Mbps Out-of-Band Emissions
Channel 00 (2402MHz)

100kHz PSD Reference Level	Low Band Edge																																
<p> Spectrum Analyzer 1 Input: RF, Coupling: AC, Attenuation: 10 dB, PNO: Best Wide, Avg Type: Log-Power, Scale/Div: 10 dB, Ref Lvl Offset: 21.60 dB, Ref Level: 21.60 dBm, Mkr1: 2.402250 GHz, 9.22 dBm. </p>	<p> Spectrum Analyzer 1 Input: RF, Coupling: AC, Attenuation: 10 dB, PNO: Best Wide, Avg Type: Log-Power, Scale/Div: 10 dB, Ref Lvl Offset: 21.60 dB, Ref Level: 21.60 dBm, Mkr1: 2.400000 GHz, -49.97 dBm. </p>																																
<p> Spectrum Analyzer 1 Input: RF, Coupling: AC, Attenuation: 10 dB, PNO: Fast, Avg Type: Log-Power, Scale/Div: 10 dB, Ref Lvl Offset: 21.60 dB, Ref Level: 21.60 dBm, Mkr3: 24.276 GHz, -40.54 dBm. </p> <table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>13.624 GHz</td> <td>-47.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>16.310 GHz</td> <td>-43.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>24.276 GHz</td> <td>-40.54 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	13.624 GHz	-47.49 dBm			2	N	1	f	16.310 GHz	-43.81 dBm			3	N	1	f	24.276 GHz	-40.54 dBm			
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																										
1	N	1	f	13.624 GHz	-47.49 dBm																												
2	N	1	f	16.310 GHz	-43.81 dBm																												
3	N	1	f	24.276 GHz	-40.54 dBm																												



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-01-16	Filter	9#

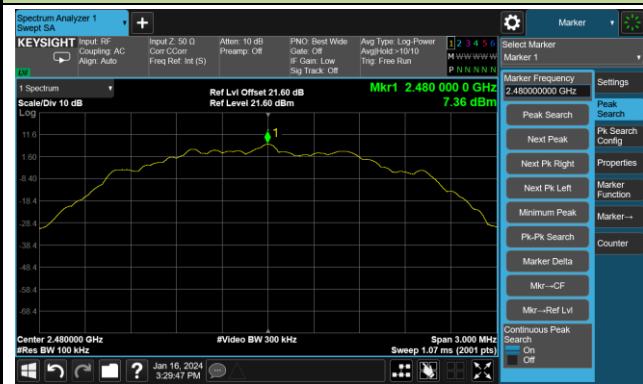
Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	39	2480	20	Pass
BLE	2	39	2480	20	Pass



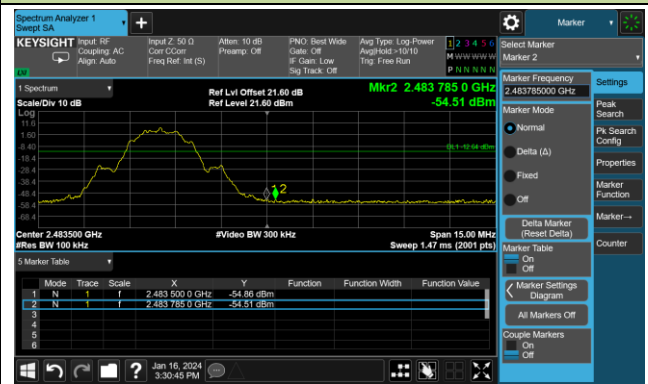
BLE-2Mbps Out-of-Band Emissions

Channel 39 (2480MHz)

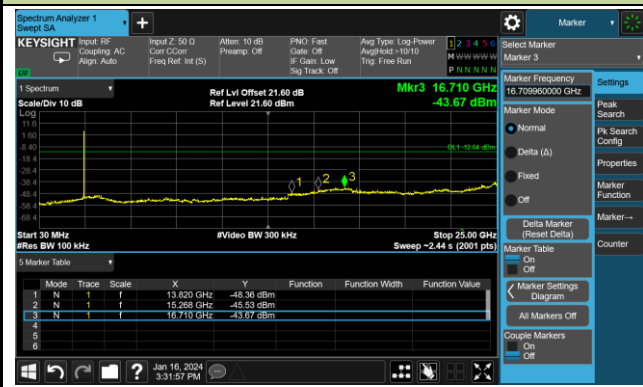
100kHz PSD Reference Level



High Band Edge



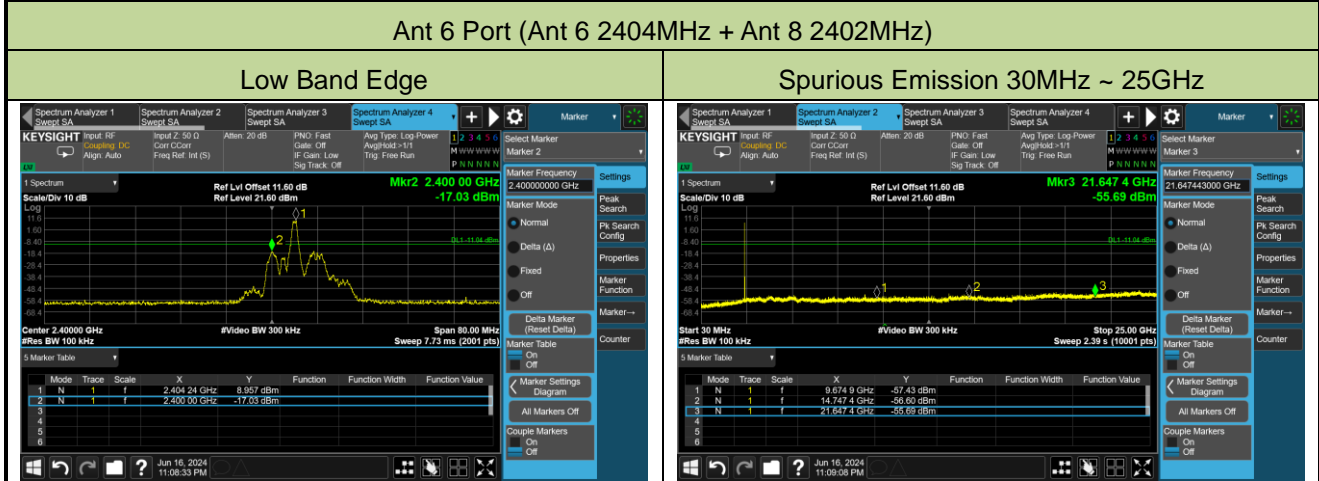
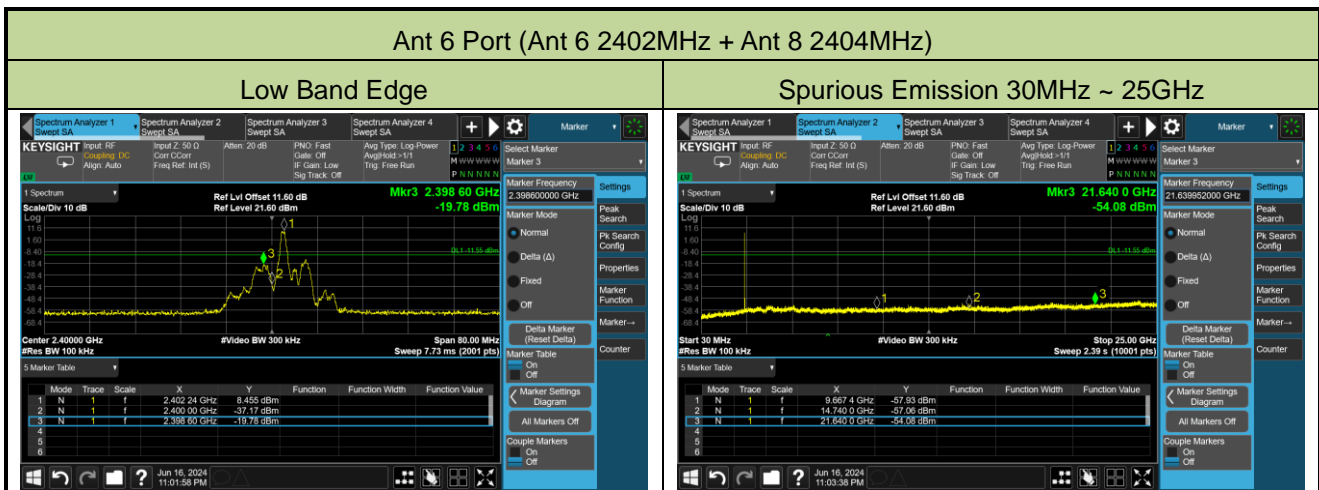
Spurious Emission 30MHz ~ 25GHz



Mode 4

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-06-16		

Ant 6 Frequency (MHz)	Ant 8 Frequency (MHz)	Limit (dBc)	Result
2402	2404	20	Pass
2404	2402	20	Pass
2478	2480	20	Pass
2480	2478	20	Pass

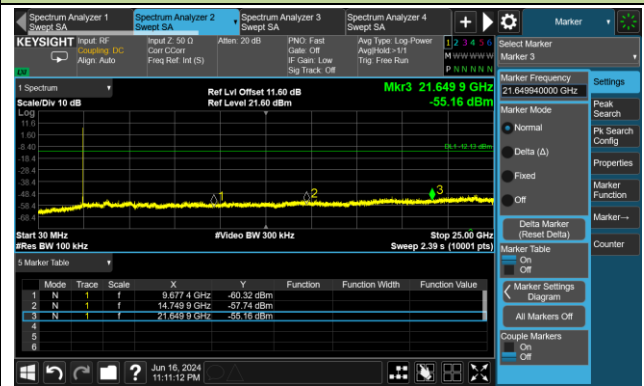


Ant 6 Port (Ant 6 2478MHz + Ant 8 2480MHz)

High Band Edge

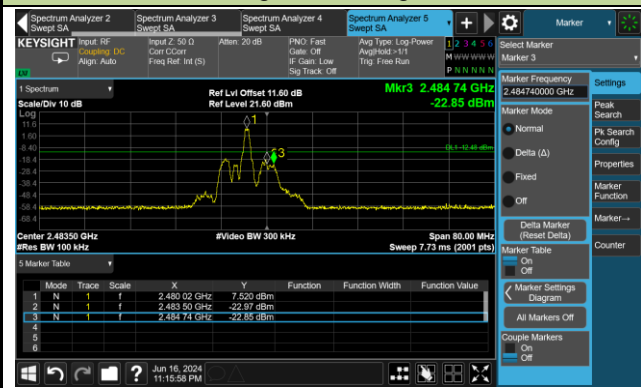


Spurious Emission 30MHz ~ 25GHz



Ant 6 Port (Ant 6 2480MHz + Ant 8 2478MHz)

High Band Edge

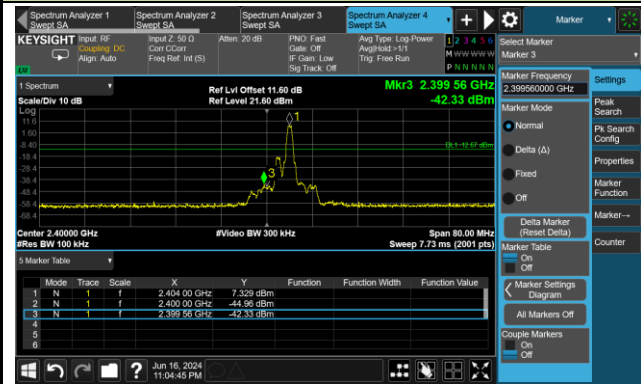


Spurious Emission 30MHz ~ 25GHz



Ant 8 Port (Ant 6 2402MHz + Ant 8 2404MHz)

Low Band Edge

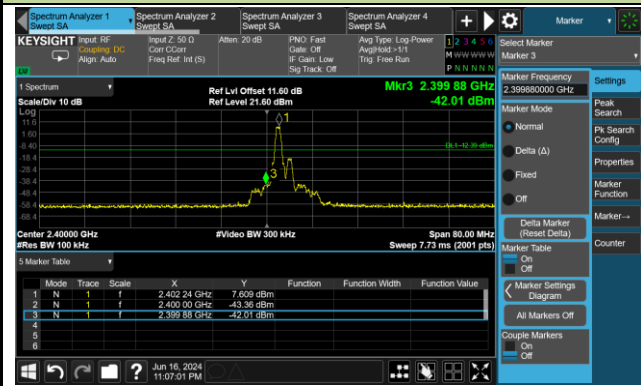


Spurious Emission 30MHz ~ 25GHz

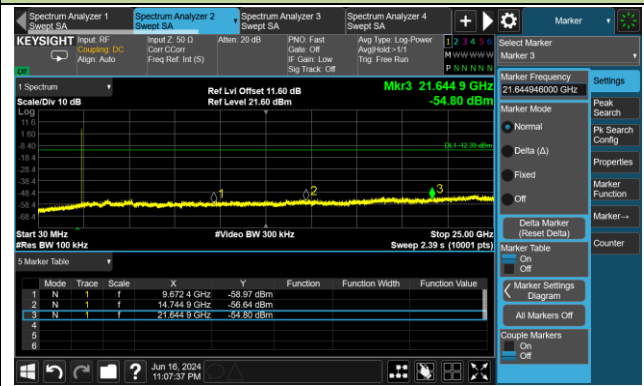


Ant 8 Port (Ant 6 2404MHz + Ant 8 2402MHz)

Low Band Edge

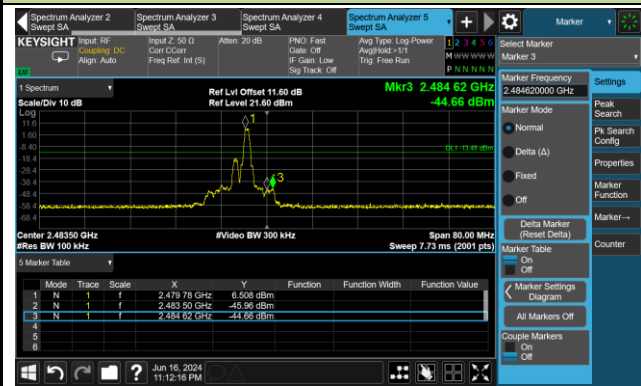


Spurious Emission 30MHz ~ 25GHz

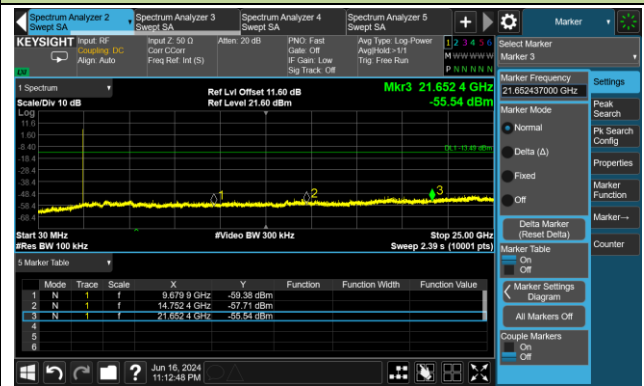


Ant 8 Port (Ant 6 2478MHz + Ant 8 2480MHz)

High Band Edge



Spurious Emission 30MHz ~ 25GHz



Ant 8 Port (Ant 6 2480MHz + Ant 8 2478MHz)

High Band Edge



Spurious Emission 30MHz ~ 25GHz

