

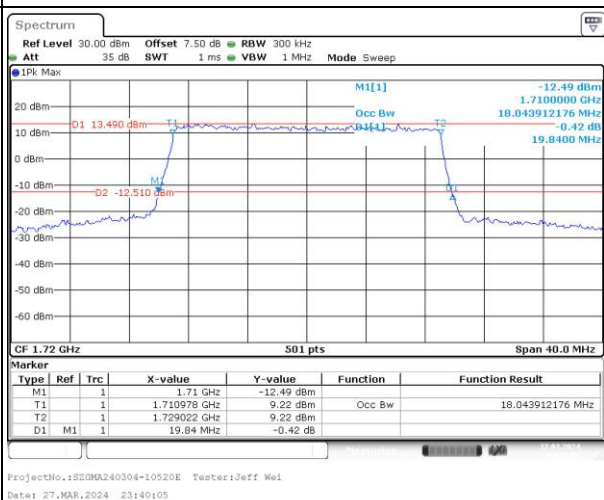
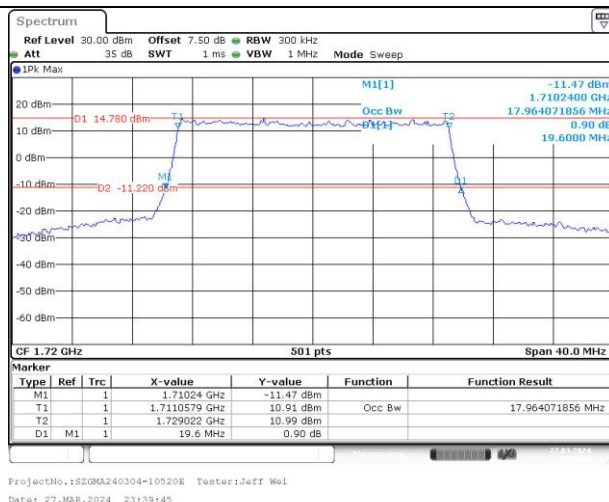
## Occupied Bandwidth

## Channel

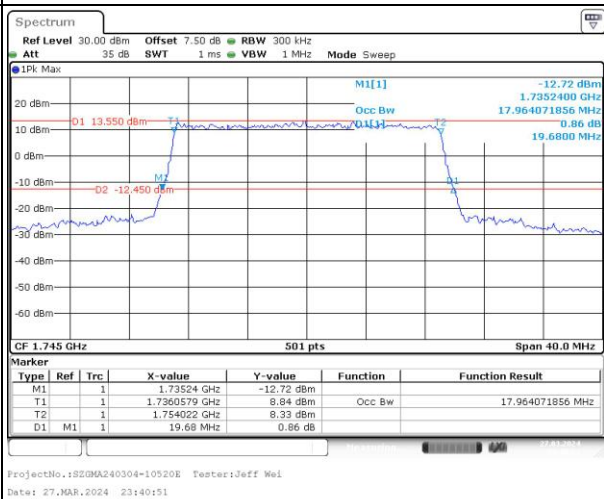
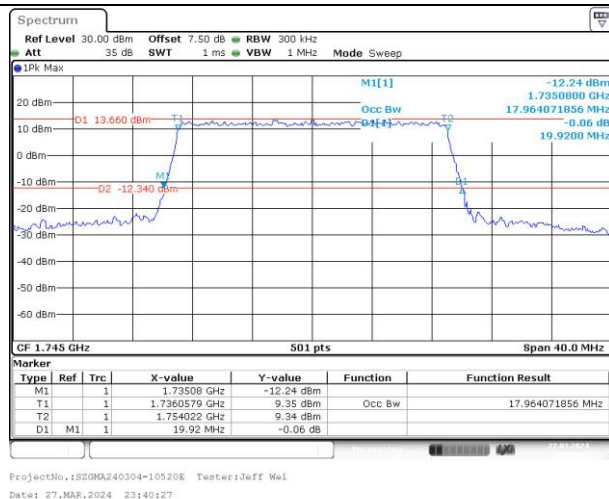
## 20MHz Bandwidth QPSK

## 20MHz Bandwidth 16QAM

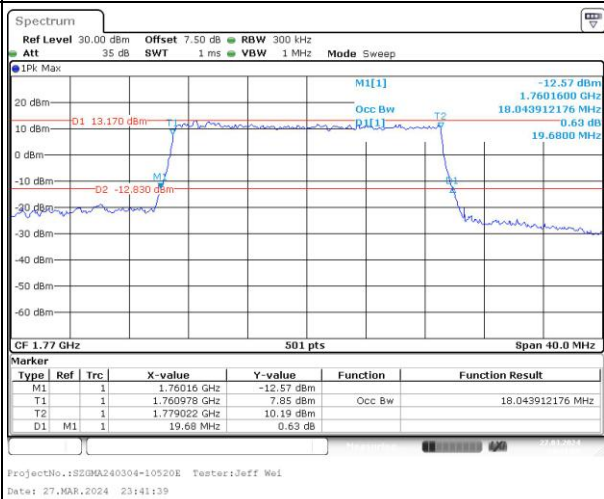
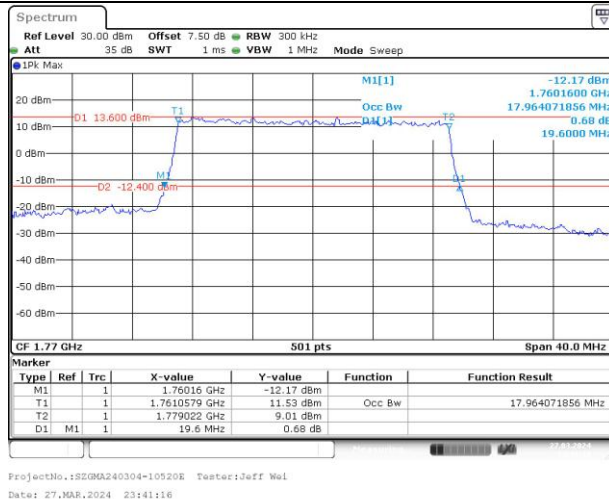
## Lowest



## Middle



## Highest

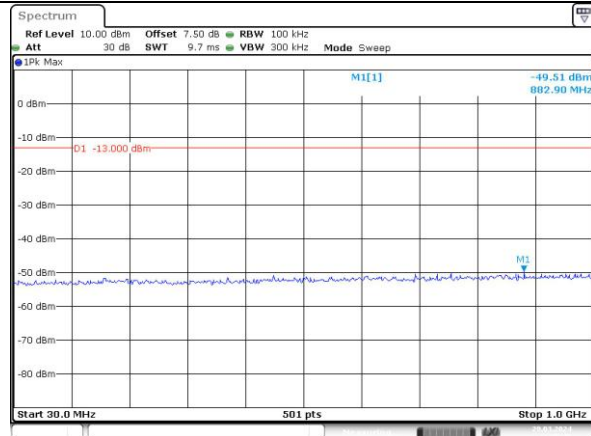


## Spurious Emissions at Antenna Terminal

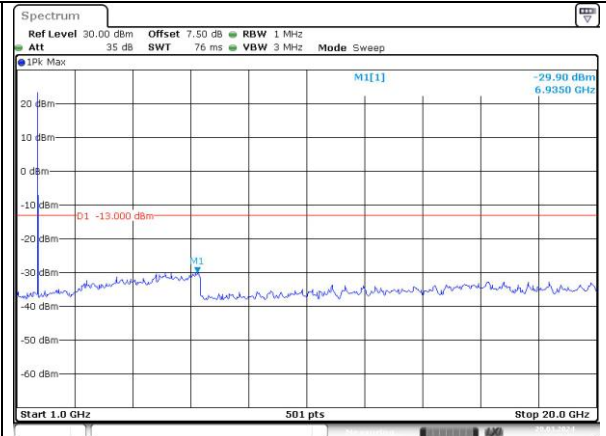
Channel

1.4MHz Bandwidth QPSK

Lowest

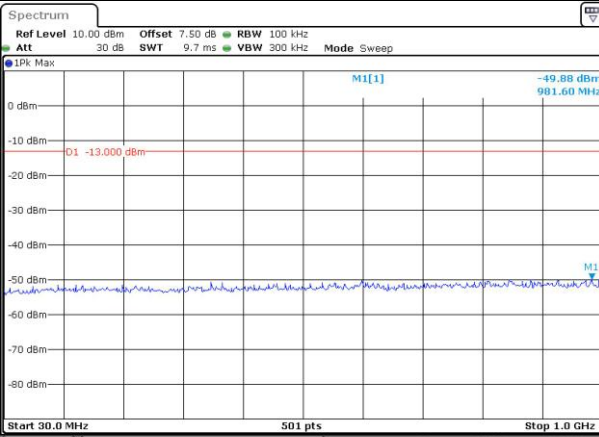


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:30:45

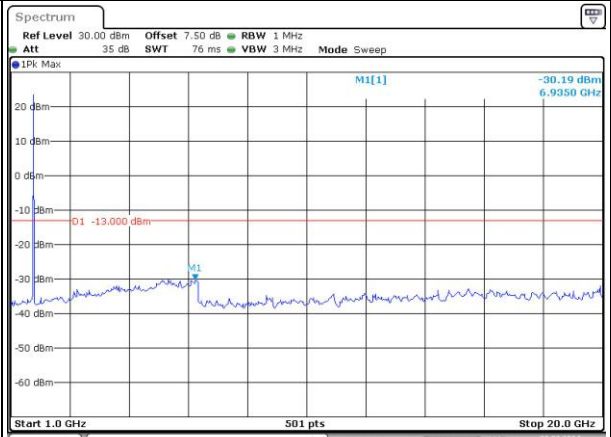


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:31:07

Middle

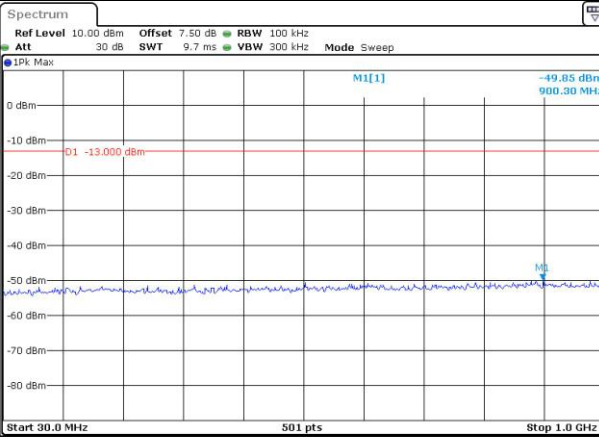


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:31:36

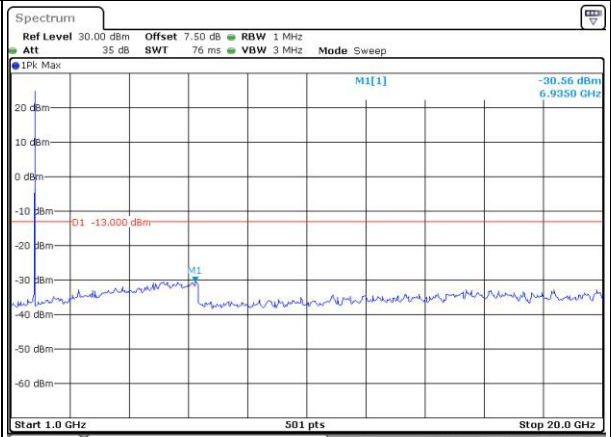


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:31:55

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:32:33



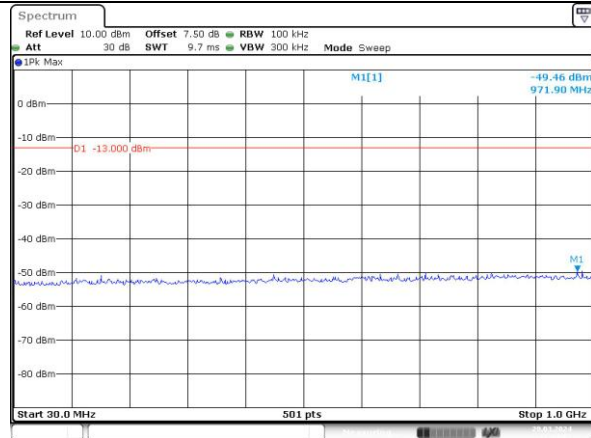
ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:32:52

## Spurious Emissions at Antenna Terminal

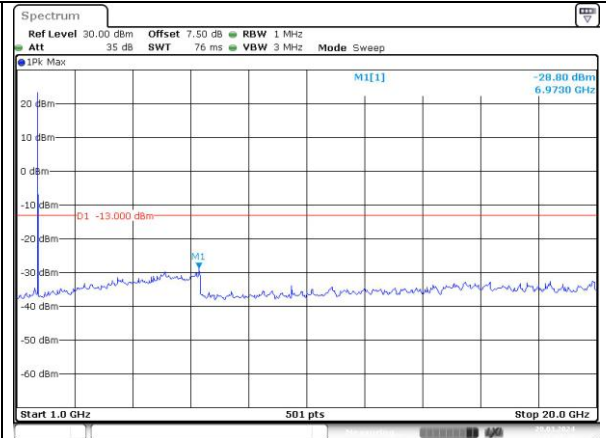
Channel

3MHz Bandwidth QPSK

Lowest

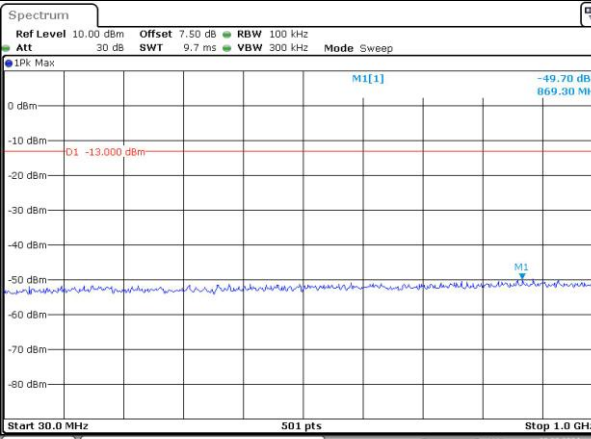


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:34:02

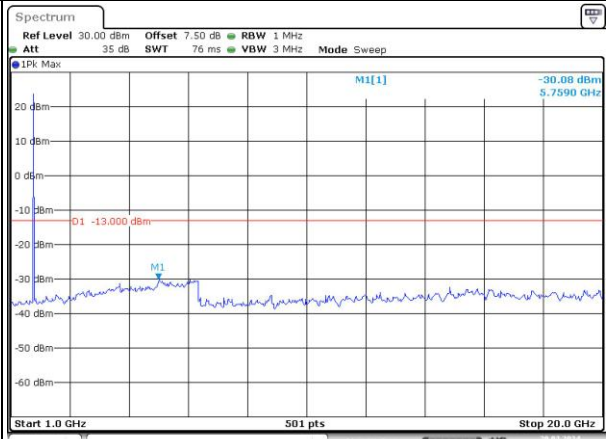


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:34:27

Middle

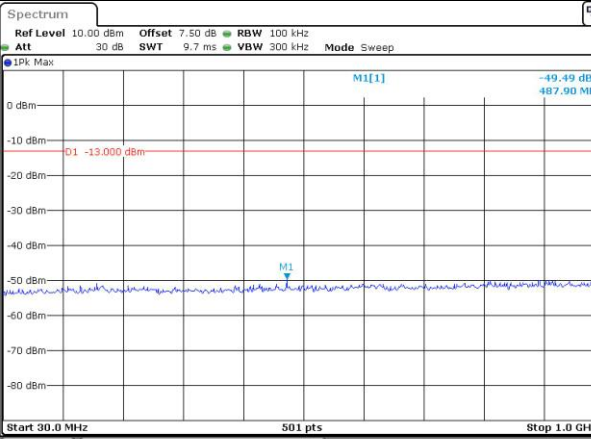


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:35:05

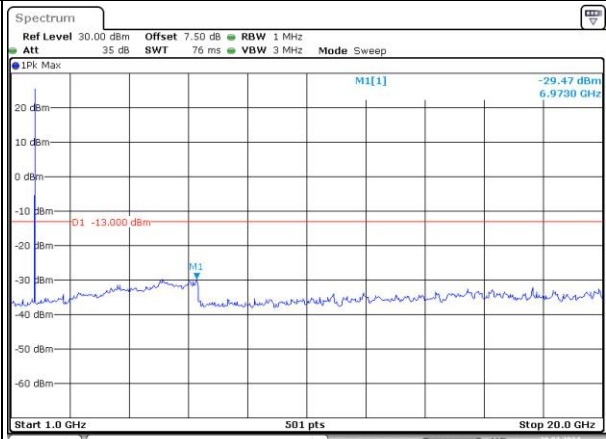


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:35:24

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:35:53



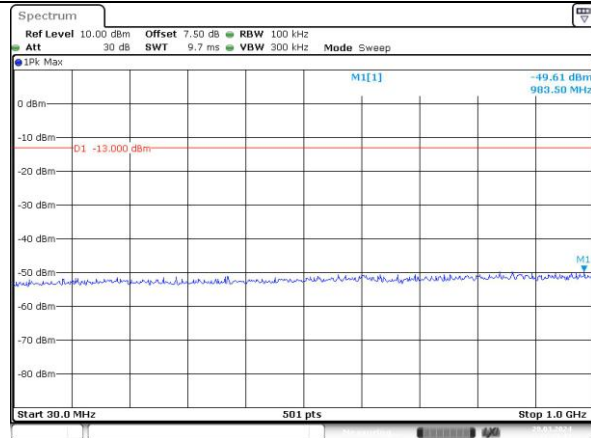
ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:36:15

## Spurious Emissions at Antenna Terminal

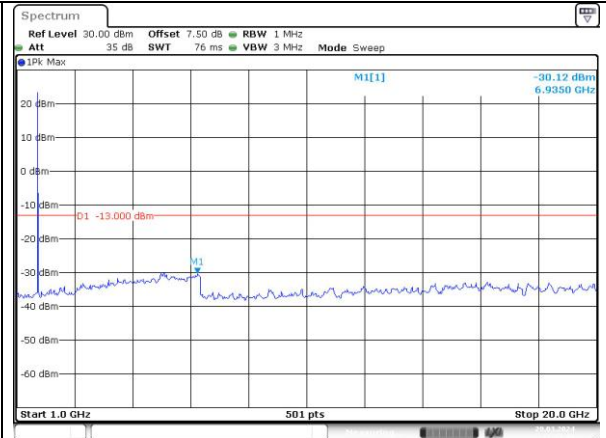
Channel

5MHz Bandwidth QPSK

Lowest

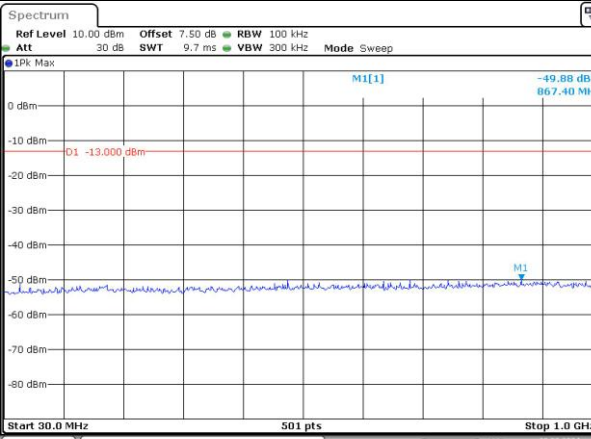


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:37:18

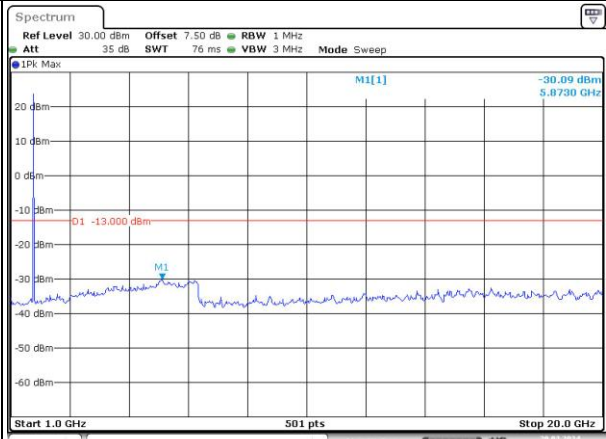


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:37:39

Middle

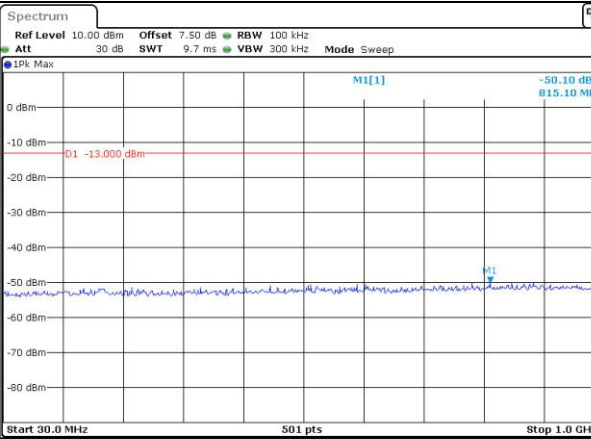


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:38:20

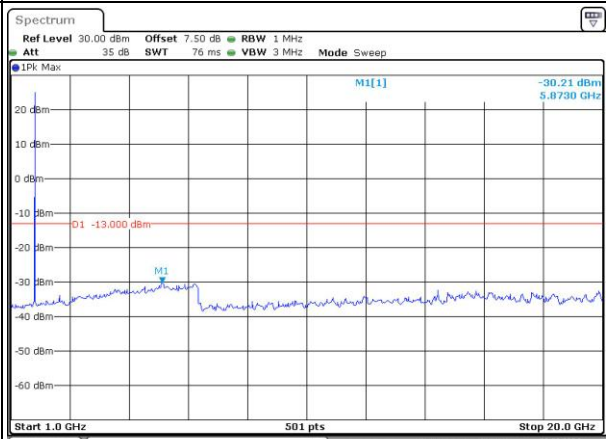


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:38:42

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:39:18



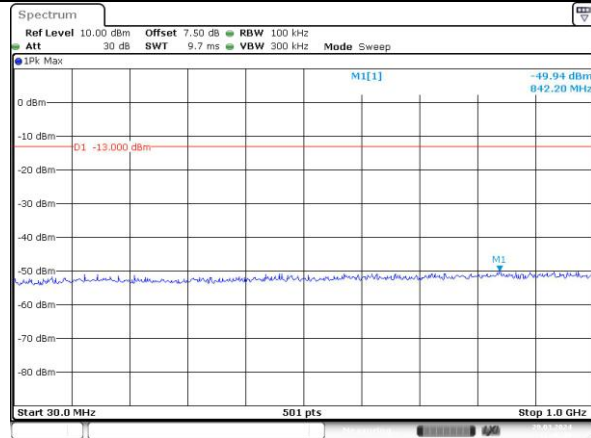
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## Spurious Emissions at Antenna Terminal

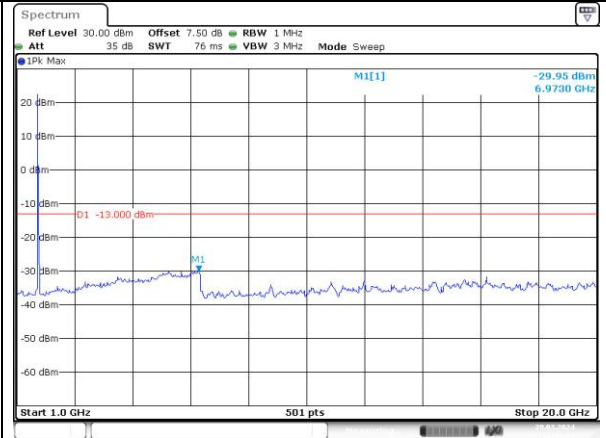
Channel

10MHz Bandwidth QPSK

Lowest

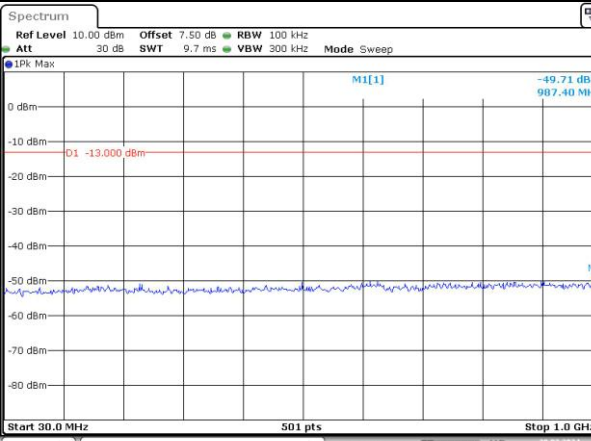


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:40:36

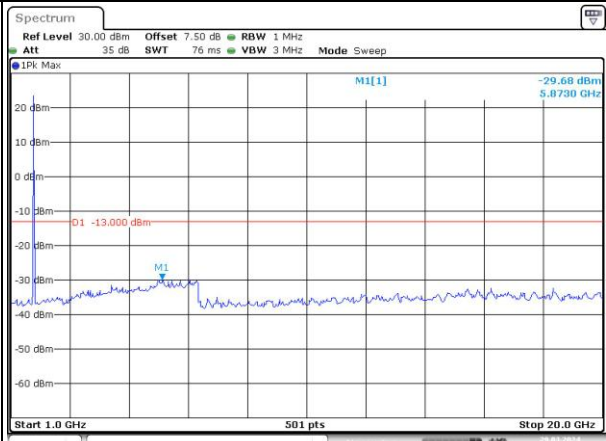


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:41:05

Middle

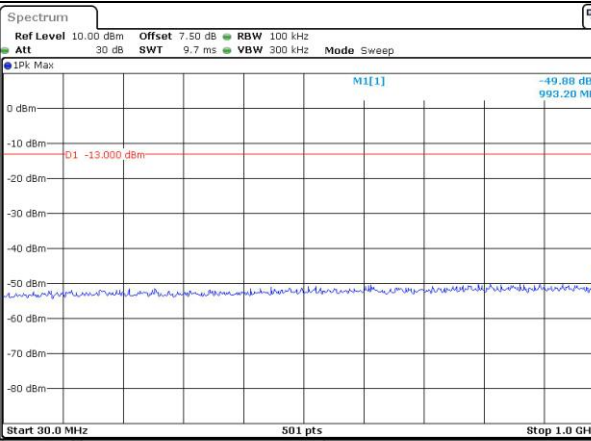


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:41:48

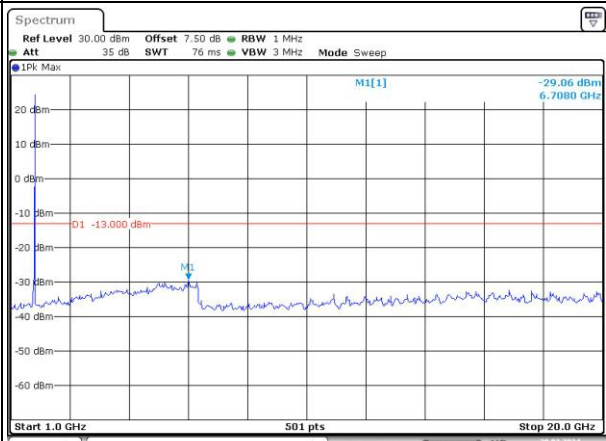


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:42:13

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:42:49



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:43:08

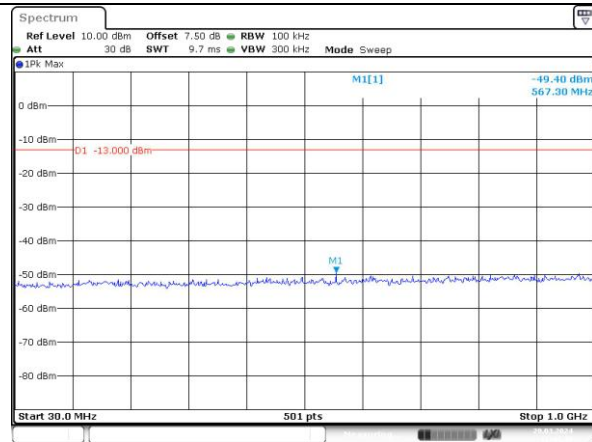


## Spurious Emissions at Antenna Terminal

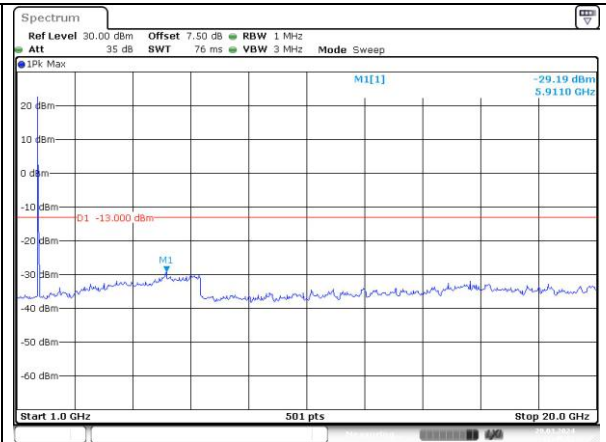
Channel

15MHz Bandwidth QPSK

Lowest

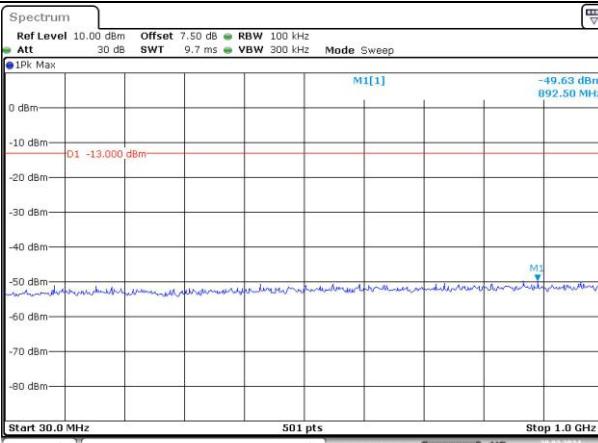


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
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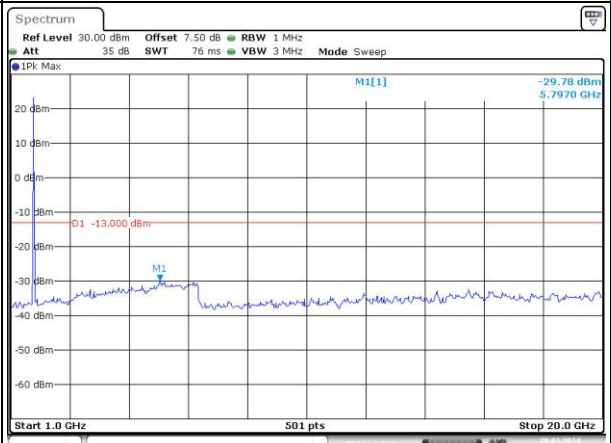


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:45:02

Middle

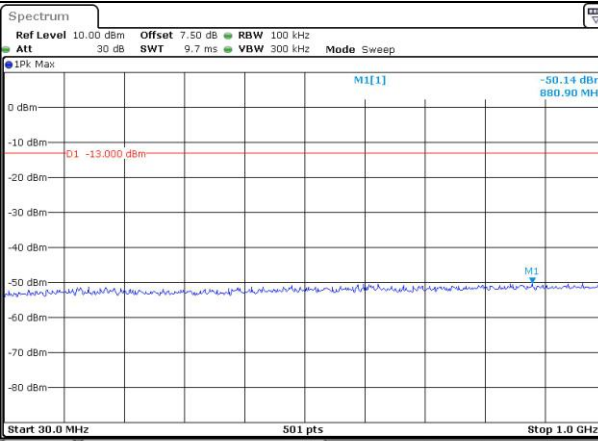


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
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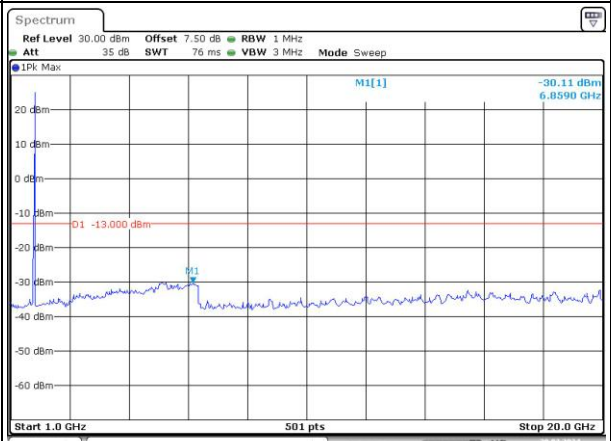


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:46:00

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 29.MAR.2024 11:46:43



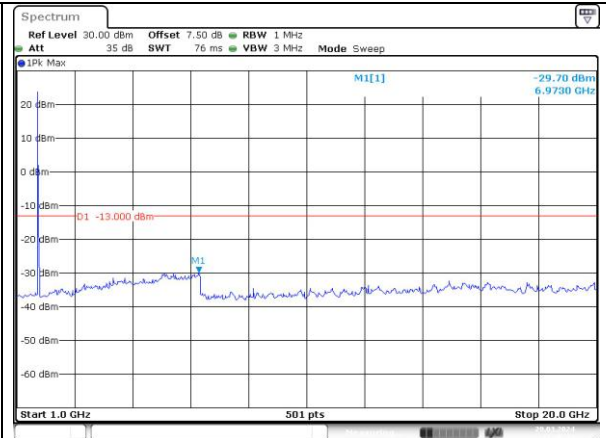
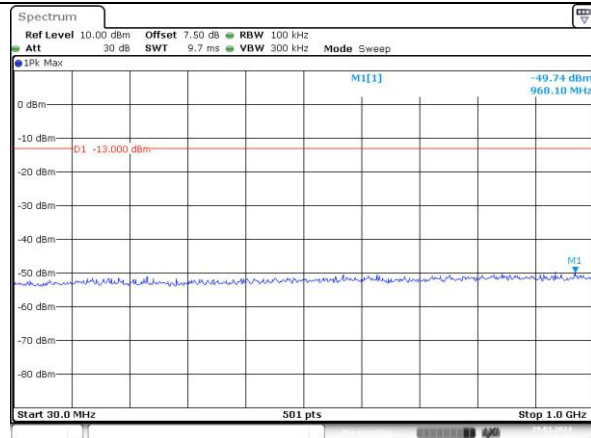
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## Spurious Emissions at Antenna Terminal

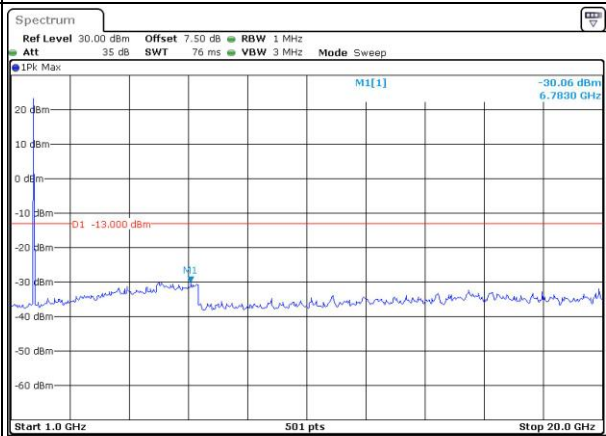
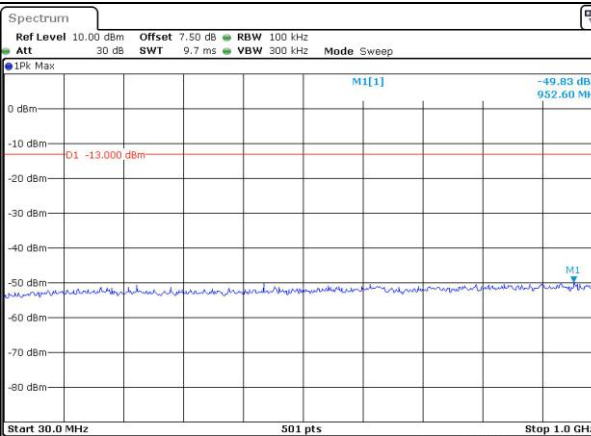
Channel

20MHz Bandwidth QPSK

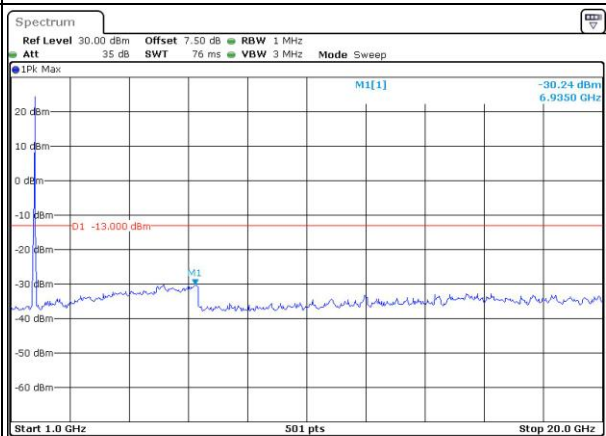
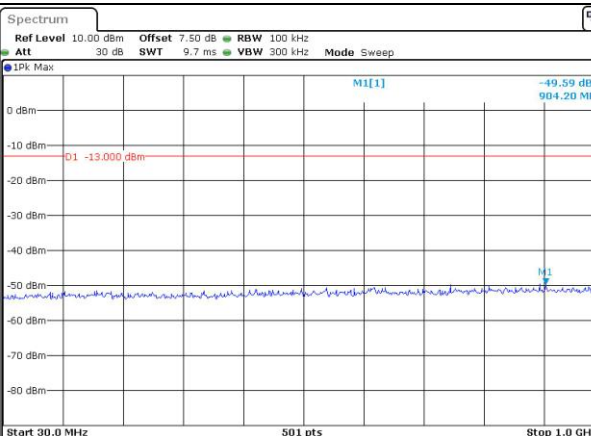
Lowest



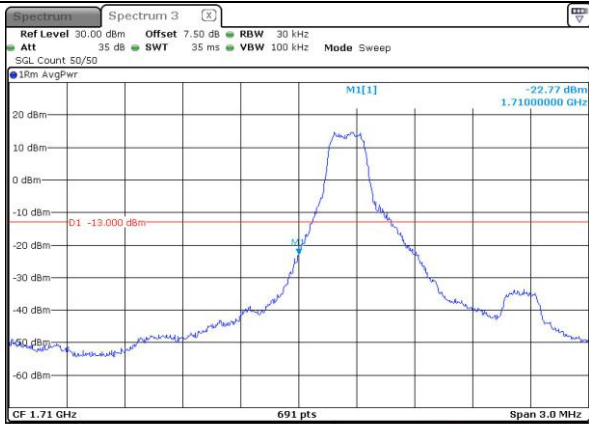
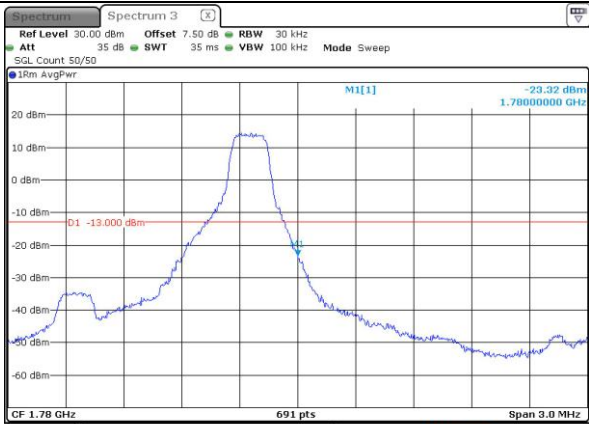
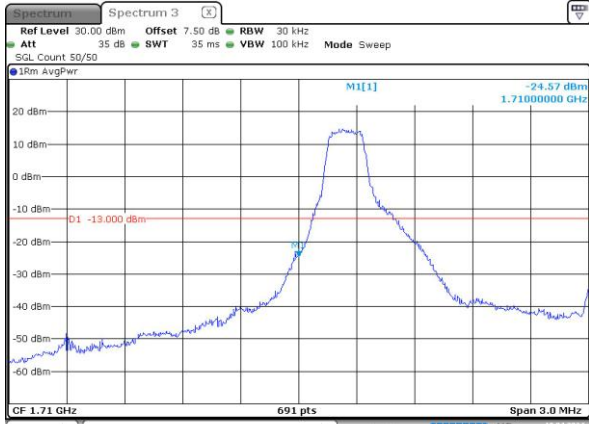
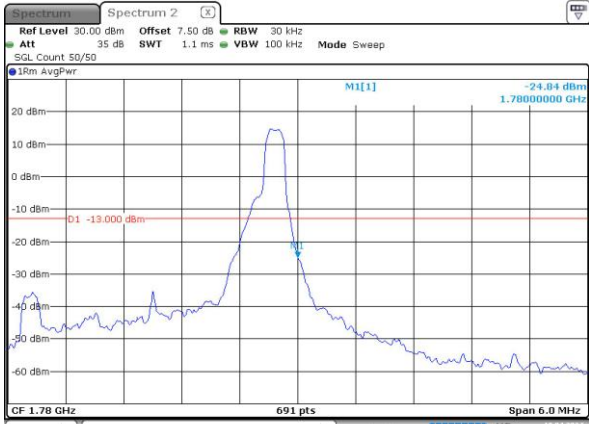
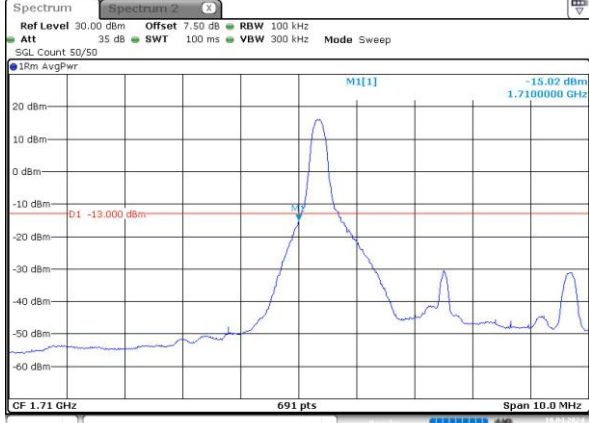
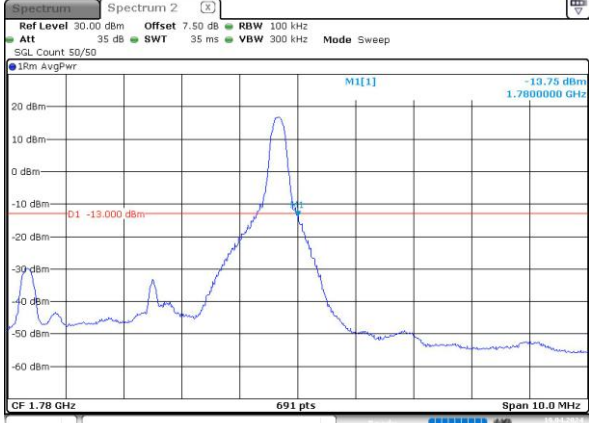
Middle



Highest



## Out of band emission, Band Edge

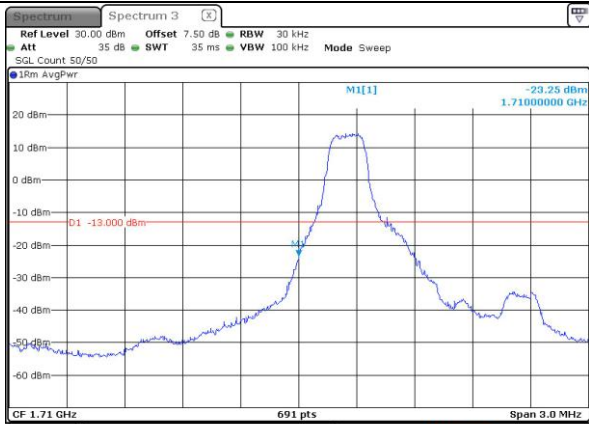
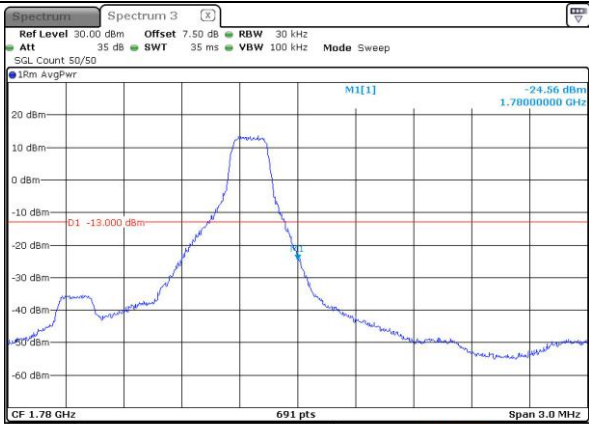
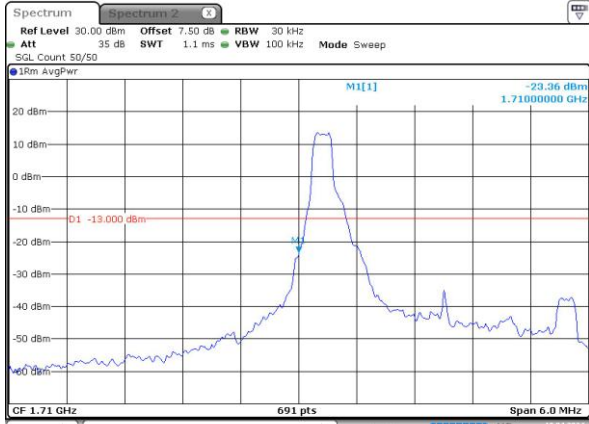
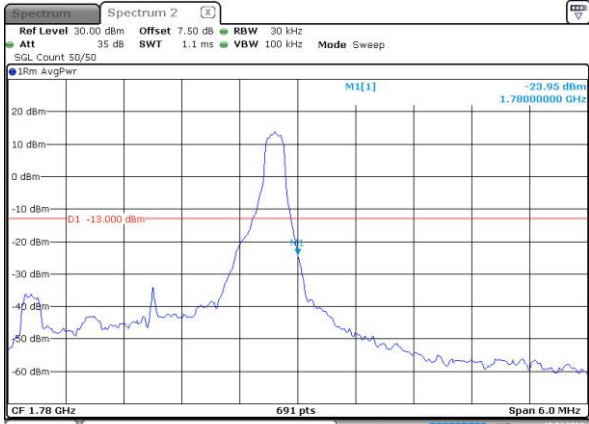
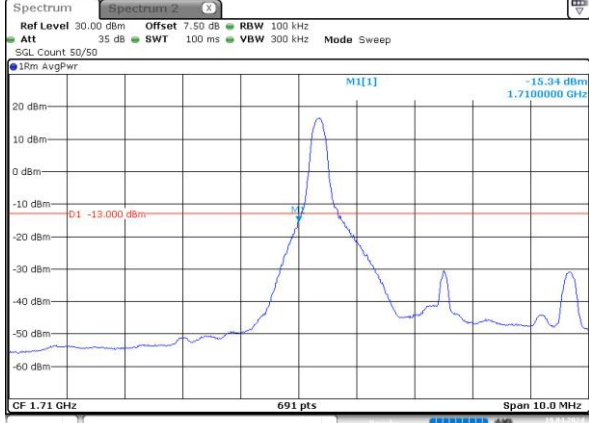
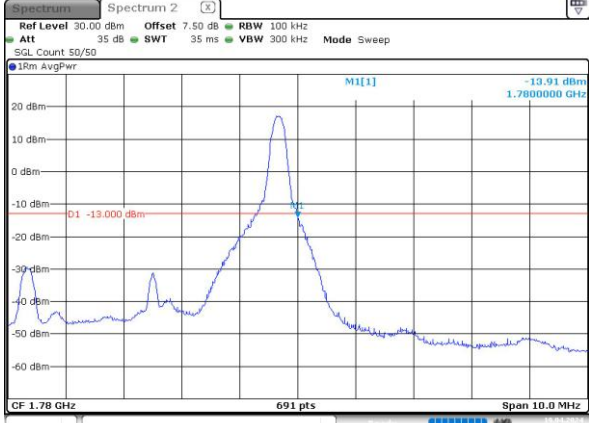
| Mode           | Lowest-RB 1#0                                                                                                                                                                                                                                                                                                                                                                                                  | Highest-RB 1#Max                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QPSK<br>1.4MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -22.77 dBm<br/>1.71000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:12:13</p>      |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -23.32 dBm<br/>1.70000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.70 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:13:34</p>     |
| QPSK<br>3MHz   |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -24.57 dBm<br/>1.71000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:18:52</p>     |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -24.04 dBm<br/>1.70000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.70 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:12:11</p>   |
| QPSK<br>5MHz   |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 100 ms VBW 300 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -15.02 dBm<br/>1.71000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 691 pts Span 10.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:29:49</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -13.75 dBm<br/>1.70000000 GHz<br/>D1 -13.000 dBm<br/>CF 1.70 GHz 691 pts Span 10.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:41:50</p> |



## Out of band emission, Band Edge

| Mode          | Lowest-RB 1#0                                                                       | Highest-RB 1#Max                                                                    |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| QPSK<br>10MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:37:53</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:38:56</p> |
| QPSK<br>15MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:43:48</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:45:18</p> |
| QPSK<br>20MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:50:02</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:51:24</p> |

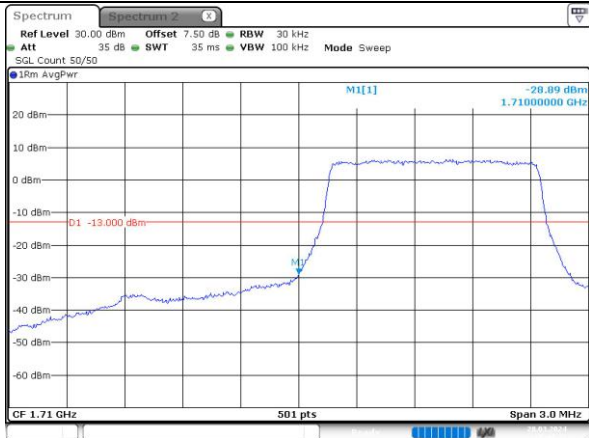
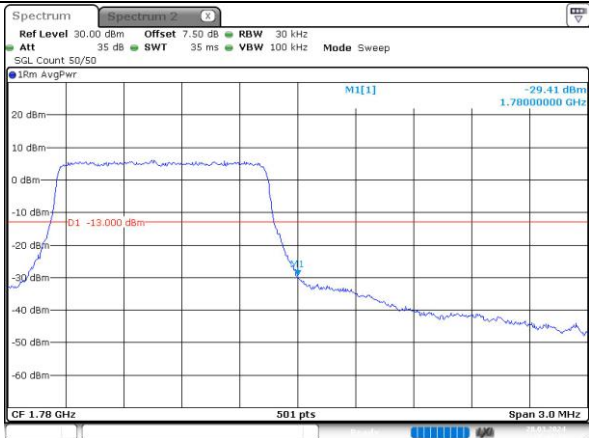
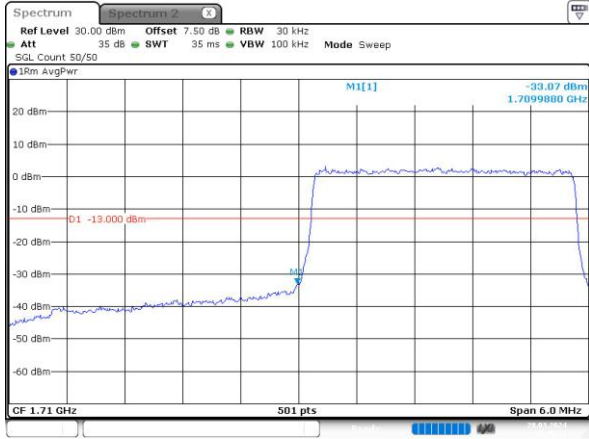
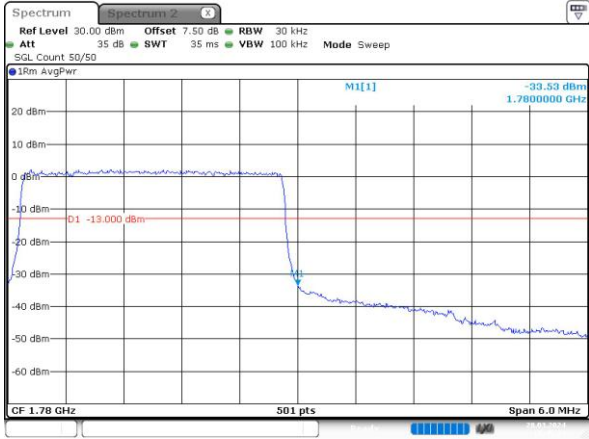
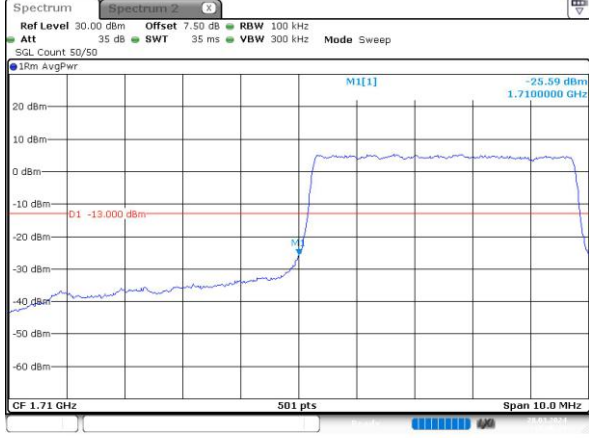
## Out of band emission, Band Edge

| Mode            | Lowest-RB 1#0                                                                                                                                                                                                                                                                                                                                                                               | Highest-RB 1#Max                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16QAM<br>1.4MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -23.25 dBm<br/>1.71000000 GHz<br/>CF 1.71 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:11:46</p>      |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -24.56 dBm<br/>1.70000000 GHz<br/>CF 1.78 GHz 691 pts Span 3.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:11:17</p>     |
| 16QAM<br>3MHz   |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -23.36 dBm<br/>1.71000000 GHz<br/>CF 1.71 GHz 691 pts Span 6.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:22:38</p>    |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz<br/>Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -23.95 dBm<br/>1.70000000 GHz<br/>CF 1.78 GHz 691 pts Span 6.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:24:36</p>   |
| 16QAM<br>5MHz   |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 100 ms VBW 300 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -15.34 dBm<br/>1.71000000 GHz<br/>CF 1.71 GHz 691 pts Span 10.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:30:56</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SQL Count 50/50<br/>1Rm AvgPwr<br/>M1[1] -13.91 dBm<br/>1.70000000 GHz<br/>CF 1.78 GHz 691 pts Span 10.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:41:05</p> |

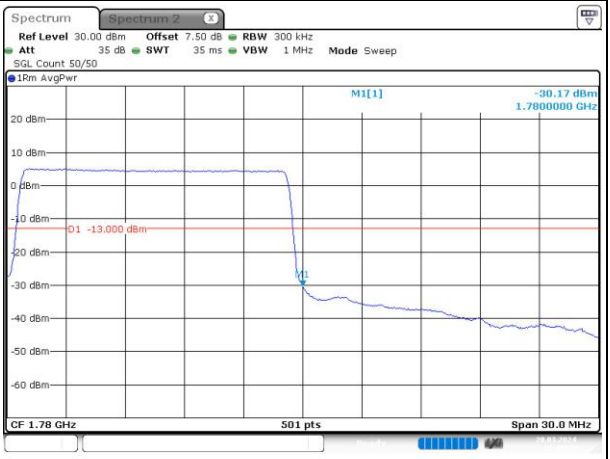
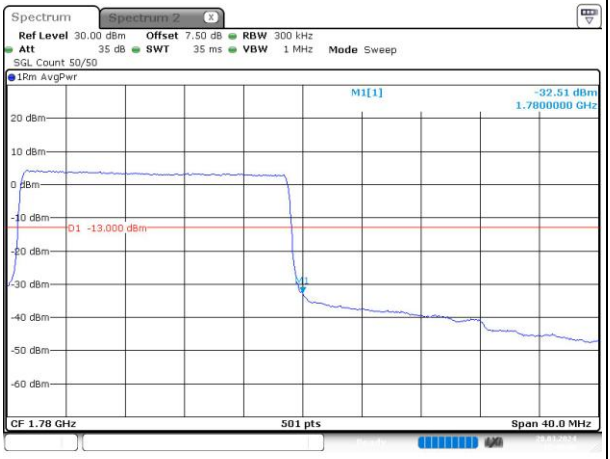
## Out of band emission, Band Edge

| Mode           | Lowest-RB 1#0                                                                       | Highest-RB 1#Max                                                                    |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 16QAM<br>10MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:38:43</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:39:20</p> |
| 16QAM<br>15MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:44:15</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:44:54</p> |
| 16QAM<br>20MHz | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:50:25</p> | <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 19.APR.2024 15:50:54</p> |

## Out of band emission, Band Edge

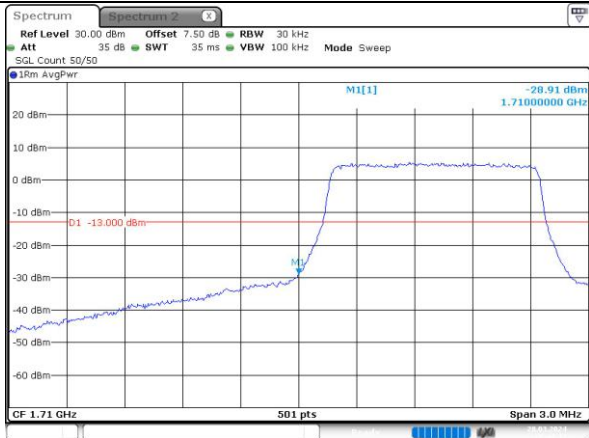
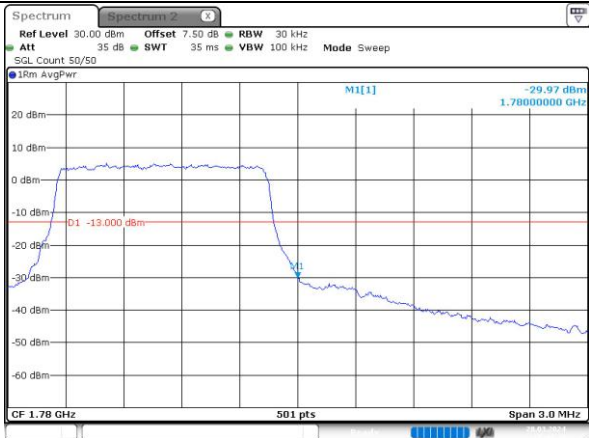
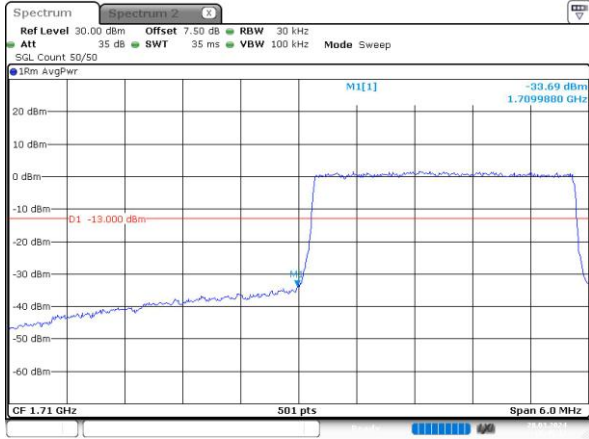
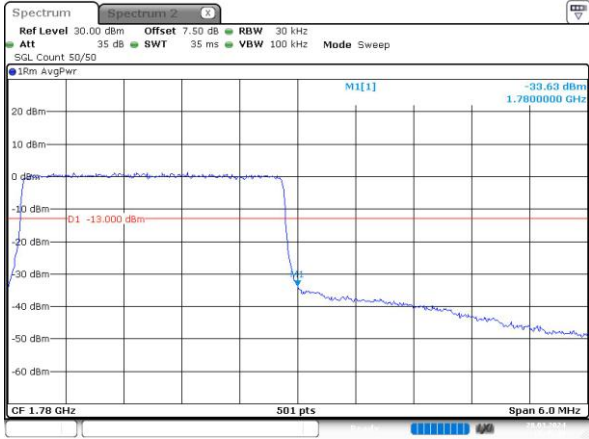
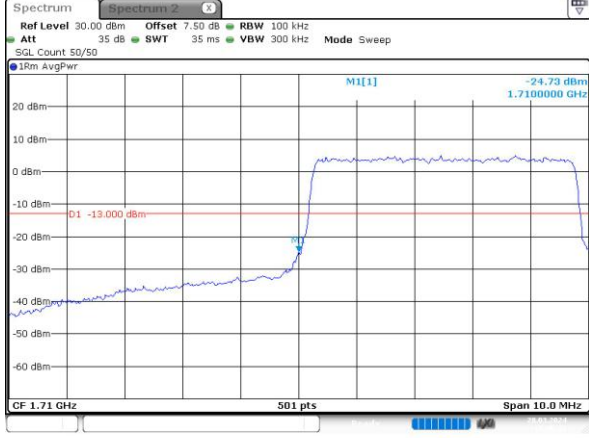
| Mode           | Lowest-Full RB                                                                                                                                                          | Highest-Full RB                                                                                                                                                          |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QPSK<br>1.4MHz |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:44:12</p>   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:44:24</p>   |
| QPSK<br>3MHz   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:45:12</p>  |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:45:24</p>  |
| QPSK<br>5MHz   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:46:29</p> |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:46:42</p> |

## Out of band emission, Band Edge

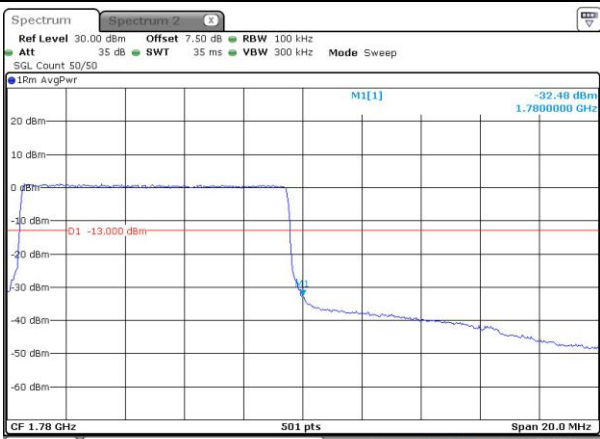
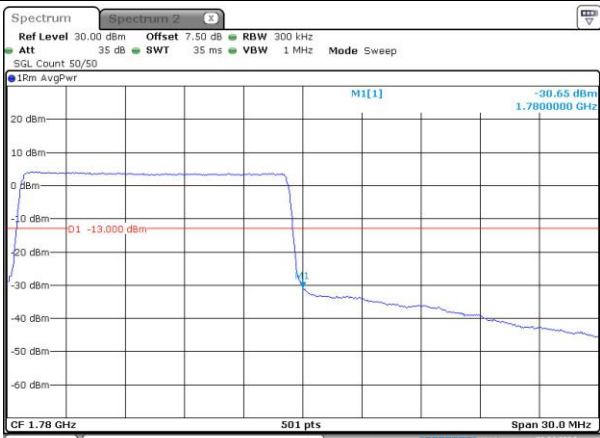
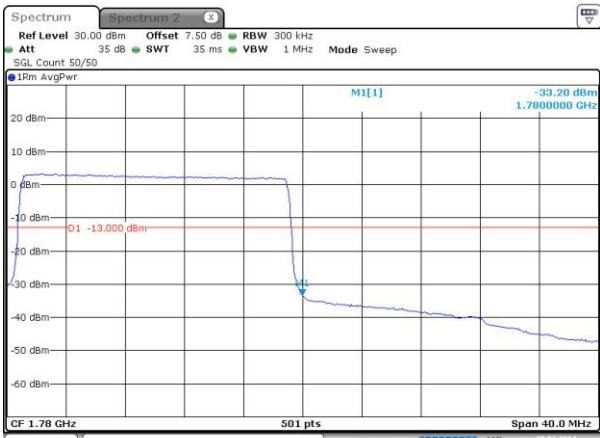
| Mode          | Lowest-Full RB                                                                                                                                                                                                                                                                                                                                                                                                | Highest-Full RB                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QPSK<br>10MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-30.76 dBm<br/>1.710000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 501 pts Span 20.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:47:23</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-32.21 dBm<br/>1.780000 GHz<br/>D1 -13.000 dBm<br/>CF 1.78 GHz 501 pts Span 20.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:47:37</p> |
| QPSK<br>15MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-29.04 dBm<br/>1.710000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 501 pts Span 30.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:48:19</p>  |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-30.17 dBm<br/>1.780000 GHz<br/>D1 -13.000 dBm<br/>CF 1.78 GHz 501 pts Span 30.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:48:33</p>  |
| QPSK<br>20MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-29.76 dBm<br/>1.710000 GHz<br/>D1 -13.000 dBm<br/>CF 1.71 GHz 501 pts Span 40.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:49:31</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1]<br/>-32.51 dBm<br/>1.780000 GHz<br/>D1 -13.000 dBm<br/>CF 1.78 GHz 501 pts Span 40.0 MHz<br/>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:49:46</p> |



## Out of band emission, Band Edge

| Mode            | Lowest-Full RB                                                                                                                                                          | Highest-Full RB                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16QAM<br>1.4MHz |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:44:18</p>   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:44:30</p>   |
| 16QAM<br>3MHz   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:45:18</p>  |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:45:30</p>  |
| 16QAM<br>5MHz   |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:46:35</p> |  <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28,MAR,2024 15:46:48</p> |

## Out of band emission, Band Edge

| Mode           | Lowest-Full RB                                                                                                                                                                                                                                                                                                                                                                            | Highest-Full RB                                                                                                                                                                                                                                                                                                                                                                            |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16QAM<br>10MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -31.42 dBm<br/>1.710000 GHz<br/>CF 1.71 GHz 501 pts Span 20.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:47:30</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz<br/>Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -32.48 dBm<br/>1.780000 GHz<br/>CF 1.78 GHz 501 pts Span 20.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:47:43</p> |
| 16QAM<br>15MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -28.88 dBm<br/>1.710000 GHz<br/>CF 1.71 GHz 501 pts Span 30.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:48:25</p>  |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -30.65 dBm<br/>1.780000 GHz<br/>CF 1.78 GHz 501 pts Span 30.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:48:39</p>  |
| 16QAM<br>20MHz |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -30.21 dBm<br/>1.710000 GHz<br/>CF 1.71 GHz 501 pts Span 40.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:49:38</p> |  <p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz<br/>Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep<br/>SGL Count 50/50<br/>1Rm AvgPwr<br/>MI[1] -33.20 dBm<br/>1.780000 GHz<br/>CF 1.78 GHz 501 pts Span 40.0 MHz</p> <p>ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei<br/>Date: 28.MAR.2024 15:49:53</p> |

### 5.15 Antenna Port Test Data and Results for LTE Band 71

|                |          |              |                     |
|----------------|----------|--------------|---------------------|
| Serial Number: | 2I92-2   | Test Date:   | 2024/3/27~2024/4/18 |
| Test Site:     | RF       | Test Mode:   | Transmitting        |
| Tester:        | Jeff Wei | Test Result: | Pass                |

| Environmental Conditions: |           |       |             |
|---------------------------|-----------|-------|-------------|
| Temperature:<br>(°C)      | 24.7~27.2 | 49~72 | 100.2~101.2 |

| Test Equipment List and Details: |                                     |              |               |                  |                      |
|----------------------------------|-------------------------------------|--------------|---------------|------------------|----------------------|
| Manufacturer                     | Description                         | Model        | Serial Number | Calibration Date | Calibration Due Date |
| R&S                              | Spectrum Analyzer                   | FSV40        | 101461        | 2023/11/27       | 2024/11/26           |
| Micro-Coax                       | Coaxial Cable                       | UFA210A      | 94089550      | 2023/9/1         | 2024/8/31            |
| Minl-Clrcuits                    | Coaxial Power Splitters & Combiner  | ZFRSC-183-S+ | SF448201614   | 2024/2/25        | 2025/2/24            |
| R&S                              | Wideband Radio Communication Tester | CMW500       | 149216        | 2023/10/18       | 2024/10/17           |
| BACL                             | TEMP&HUMI Test Chamber              | BTH-150-40   | 30173         | 2023/10/18       | 2024/10/17           |
| All-sun                          | Clamp Meter                         | EM305A       | 8348897       | 2023/8/3         | 2024/8/2             |
| TDK-Lambda                       | DC Power Supply                     | Z+60-14      | F-08-EM038-1  | N/A              | N/A                  |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

| Test Frequency For Each Mode: |                        |                        |                         |
|-------------------------------|------------------------|------------------------|-------------------------|
| Operation Bandwidth           | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
| 5MHz                          | 665.5                  | 680.5                  | 695.5                   |
| 10MHz                         | 668                    | 680.5                  | 693                     |
| 15MHz                         | 670.5                  | 680.5                  | 690.5                   |
| 20MHz                         | 673                    | 680.5                  | 688                     |

**Test Data:****FCC §2.1046; § 27.50(c) (10)****RF Output Power:**

| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum ERP (dBm) | ERP Limit (dBm) |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|-------------------|-----------------|
|                             |                            | Lowest Channel                      | Middle Channel | Highest Channel |                   |                 |
| 5MHz QPSK                   | RB1#0                      | 23.82                               | 23.59          | 23.49           | 18.31             | 34.77           |
|                             | RB1#13                     | 23.84                               | 23.51          | 23.6            |                   |                 |
|                             | RB1#24                     | 23.76                               | 23.23          | 23.35           |                   |                 |
|                             | RB15#0                     | 22.79                               | 22.44          | 22.29           |                   |                 |
|                             | RB15#10                    | 22.8                                | 22.22          | 22.32           |                   |                 |
|                             | RB25#0                     | 22.73                               | 22.51          | 22.38           |                   |                 |
| 5MHz 16QAM                  | RB1#0                      | 22.38                               | 22.28          | 22.5            | 17.11             | 34.77           |
|                             | RB1#13                     | 22.45                               | 22.53          | 22.64           |                   |                 |
|                             | RB1#24                     | 22.37                               | 22.1           | 22.54           |                   |                 |
|                             | RB15#0                     | 21.39                               | 21.59          | 21.43           |                   |                 |
|                             | RB15#10                    | 21.6                                | 21.53          | 21.6            |                   |                 |
|                             | RB25#0                     | 21.51                               | 21.87          | 21.65           |                   |                 |
| 10MHz QPSK                  | RB1#0                      | 23.85                               | 23.71          | 23.34           | 18.46             | 34.77           |
|                             | RB1#25                     | 23.99                               | 23.67          | 23.46           |                   |                 |
|                             | RB1#49                     | 23.88                               | 23.25          | 23.3            |                   |                 |
|                             | RB25#0                     | 22.94                               | 22.85          | 22.3            |                   |                 |
|                             | RB25#25                    | 22.94                               | 22.47          | 22.33           |                   |                 |
|                             | RB50#0                     | 22.97                               | 22.89          | 22.38           |                   |                 |
| 10MHz 16QAM                 | RB1#0                      | 22.85                               | 23.3           | 22.42           | 17.77             | 34.77           |
|                             | RB1#25                     | 22.94                               | 23.12          | 22.59           |                   |                 |
|                             | RB1#49                     | 22.91                               | 22.87          | 22.5            |                   |                 |
|                             | RB25#0                     | 21.99                               | 22.04          | 21.38           |                   |                 |
|                             | RB25#25                    | 22.01                               | 21.52          | 21.45           |                   |                 |
|                             | RB50#0                     | 21.87                               | 21.97          | 21.6            |                   |                 |
| 15MHz QPSK                  | RB1#0                      | 23.81                               | 23.66          | 23.18           | 18.33             | 34.77           |
|                             | RB1#38                     | 23.86                               | 23.69          | 23.3            |                   |                 |
|                             | RB1#74                     | 23.72                               | 23.21          | 23.2            |                   |                 |
|                             | RB36#0                     | 22.96                               | 22.65          | 22.31           |                   |                 |
|                             | RB36#39                    | 23.02                               | 22.48          | 22.38           |                   |                 |
|                             | RB75#0                     | 22.98                               | 22.83          | 22.34           |                   |                 |
| 15MHz 16QAM                 | RB1#0                      | 23.11                               | 22.82          | 22.3            | 17.71             | 34.77           |
|                             | RB1#38                     | 23.24                               | 22.92          | 22.42           |                   |                 |
|                             | RB1#74                     | 23.07                               | 22.77          | 22.38           |                   |                 |
|                             | RB36#0                     | 21.99                               | 21.63          | 21.34           |                   |                 |
|                             | RB36#39                    | 22.02                               | 21.65          | 21.45           |                   |                 |
|                             | RB75#0                     | 21.95                               | 21.81          | 21.44           |                   |                 |
| 20MHz QPSK                  | RB1#0                      | 23.6                                | 23.23          | 23.04           | 18.3              | 34.77           |
|                             | RB1#50                     | 23.83                               | 23.45          | 23.51           |                   |                 |
|                             | RB1#99                     | 23.61                               | 23.07          | 23.11           |                   |                 |

|             |         |       |       |       |       |       |
|-------------|---------|-------|-------|-------|-------|-------|
|             | RB50#0  | 22.86 | 22.46 | 22.45 |       |       |
|             | RB50#50 | 22.71 | 22.34 | 22.42 |       |       |
|             | RB100#0 | 22.76 | 22.47 | 22.44 |       |       |
| 20MHz 16QAM | RB1#0   | 23.1  | 22.41 | 22.25 | 18.01 | 34.77 |
|             | RB1#50  | 23.54 | 22.7  | 22.72 |       |       |
|             | RB1#99  | 22.88 | 22.36 | 22.29 |       |       |
|             | RB50#0  | 21.87 | 21.28 | 21.54 |       |       |
|             | RB50#50 | 21.8  | 21.46 | 21.48 |       |       |
|             | RB100#0 | 21.79 | 21.35 | 21.54 |       |       |

Note: ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)  
G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

**Result:****Pass****Peak-to-average Ratio(PAR)**

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB)  |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
|                             |                            | Lowest Channel            | Middle Channel | Highest Channel |             |
| 20MHz QPSK                  | RB1#0                      | 4.43                      | 5.25           | 8.46            | 13          |
|                             | RB100#0                    | 4.23                      | 4.41           | 4.99            | 13          |
| 20MHz 16QAM                 | RB1#0                      | 5.13                      | 5.71           | 8.49            | 13          |
|                             | RB100#0                    | 5.88                      | 5.86           | 6.03            | 13          |
|                             |                            |                           |                | <b>Result:</b>  | <b>Pass</b> |

**FCC §2.1049, §27.53:Occupied Bandwidth**

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 5MHz QPSK      | 4.511                        | 4.551          | 4.511        | 5.14                           | 5.2            | 5.2          |
| 5MHz 16QAM     | 4.531                        | 4.531          | 4.531        | 5.16                           | 5.18           | 5.18         |
| 10MHz QPSK     | 8.982                        | 8.982          | 8.942        | 9.88                           | 9.92           | 9.92         |
| 10MHz 16QAM    | 8.982                        | 8.982          | 8.942        | 9.84                           | 9.88           | 9.76         |
| 15MHz QPSK     | 13.473                       | 13.533         | 13.593       | 15.18                          | 15.24          | 15.3         |
| 15MHz 16QAM    | 13.533                       | 13.533         | 13.533       | 15.12                          | 15.06          | 15.12        |
| 20MHz QPSK     | 17.884                       | 17.964         | 18.044       | 19.52                          | 19.84          | 19.68        |
| 20MHz 16QAM    | 17.964                       | 17.964         | 17.964       | 19.76                          | 19.76          | 19.76        |

Note: The test plots please refer to the Plots of Occupied Bandwidth

**FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal**

|                |                                                                                                                     |
|----------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Result:</b> | <b>Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.</b> |
|----------------|---------------------------------------------------------------------------------------------------------------------|

**FCC §2.1051, §27.53:Out of band emission, Band Edge**

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| <b>Result:</b> | <b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b> |
|----------------|---------------------------------------------------------------------------------|



**FCC §2.1055, §27.54: Frequency Stability**

| Test Mode:                          | 20M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |        |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|--------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |        | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit  | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85                                                       | 664.028          | 663.00 | 697.013          | 698.00      |
|                                     | -20              | 3.85                                                       | 664.034          | 663.00 | 697.004          | 698.00      |
|                                     | -10              | 3.85                                                       | 664.037          | 663.00 | 696.995          | 698.00      |
|                                     | 0                | 3.85                                                       | 664.049          | 663.00 | 696.998          | 698.00      |
|                                     | 10               | 3.85                                                       | 664.046          | 663.00 | 697.016          | 698.00      |
|                                     | 20               | 3.85                                                       | 664.058          | 663.00 | 697.022          | 698.00      |
|                                     | 30               | 3.85                                                       | 664.082          | 663.00 | 697.049          | 698.00      |
|                                     | 40               | 3.85                                                       | 664.061          | 663.00 | 697.034          | 698.00      |
|                                     | 50               | 3.85                                                       | 664.076          | 663.00 | 697.049          | 698.00      |
| Frequency Stability vs. Voltage     | 20               | 3.6                                                        | 664.079          | 663.00 | 697.046          | 698.00      |
|                                     | 20               | 4.4                                                        | 664.076          | 663.00 | 697.025          | 698.00      |
|                                     |                  |                                                            |                  |        | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                          | 20M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |        |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|--------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |        | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit  | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85                                                       | 664.031          | 663.00 | 697.010          | 698.00      |
|                                     | -20              | 3.85                                                       | 664.037          | 663.00 | 696.995          | 698.00      |
|                                     | -10              | 3.85                                                       | 664.043          | 663.00 | 697.001          | 698.00      |
|                                     | 0                | 3.85                                                       | 664.037          | 663.00 | 696.998          | 698.00      |
|                                     | 10               | 3.85                                                       | 664.040          | 663.00 | 697.007          | 698.00      |
|                                     | 20               | 3.85                                                       | 664.058          | 663.00 | 697.022          | 698.00      |
|                                     | 30               | 3.85                                                       | 664.079          | 663.00 | 697.049          | 698.00      |
|                                     | 40               | 3.85                                                       | 664.076          | 663.00 | 697.031          | 698.00      |
|                                     | 50               | 3.85                                                       | 664.064          | 663.00 | 697.049          | 698.00      |
| Frequency Stability vs. Voltage     | 20               | 3.6                                                        | 664.085          | 663.00 | 697.034          | 698.00      |
|                                     | 20               | 4.4                                                        | 664.061          | 663.00 | 697.049          | 698.00      |
|                                     |                  |                                                            |                  |        | <b>Result:</b>   | <b>Pass</b> |

## Test Plots:

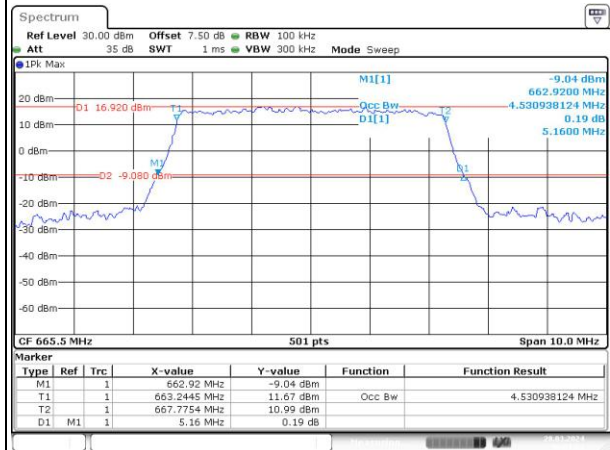
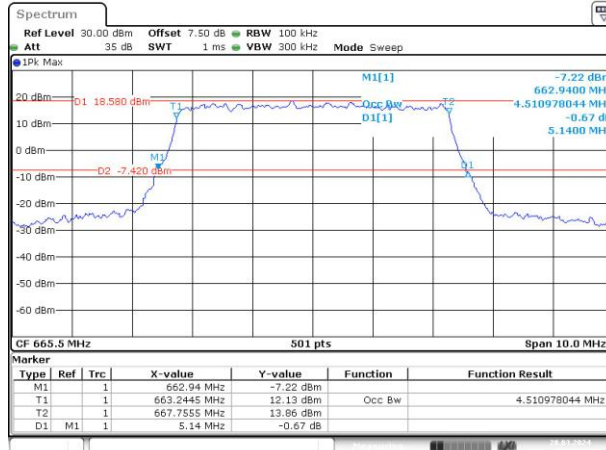
## Occupied Bandwidth

## Channel

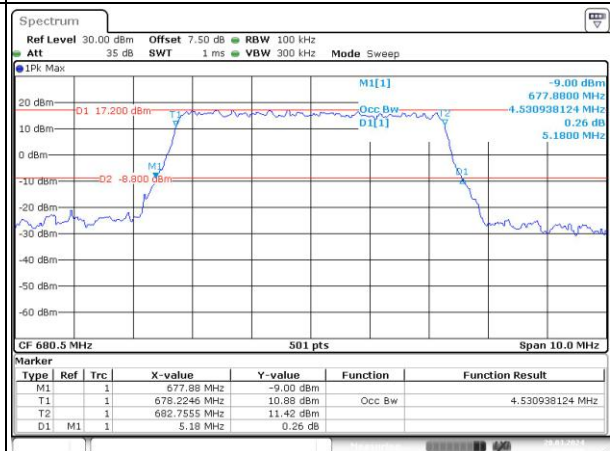
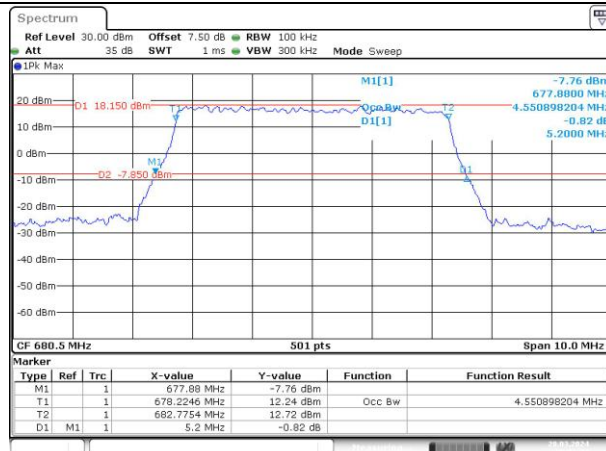
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

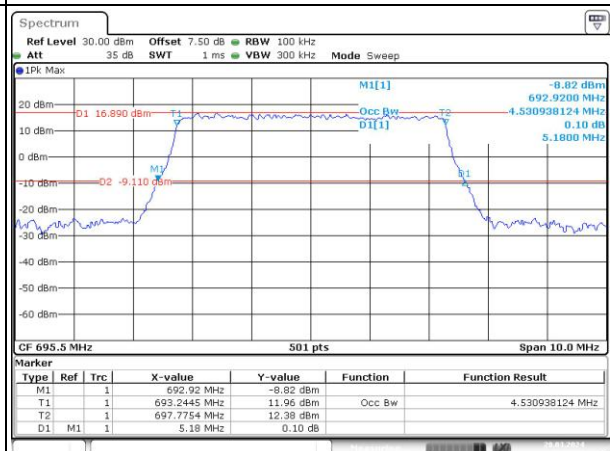
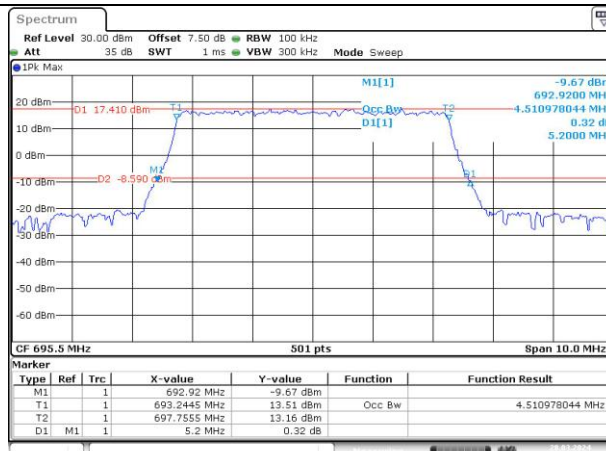
Lowest



Middle



Highest



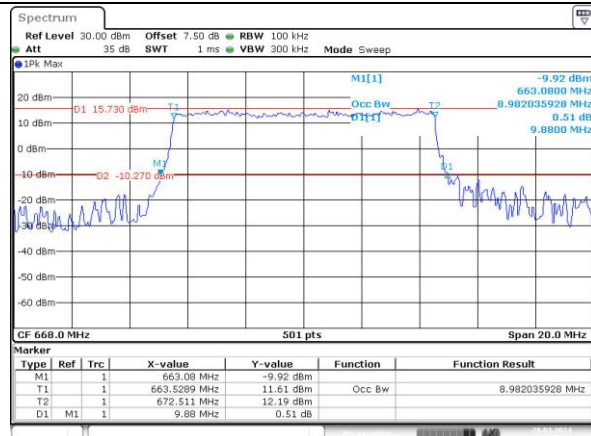
## Occupied Bandwidth

## Channel

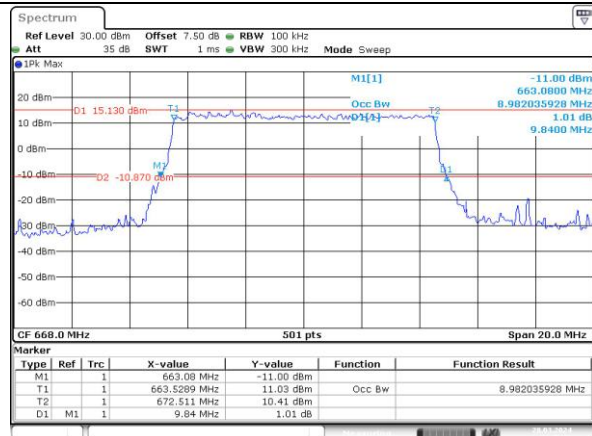
## 10MHz Bandwidth QPSK

## 10MHz Bandwidth 16QAM

Lowest

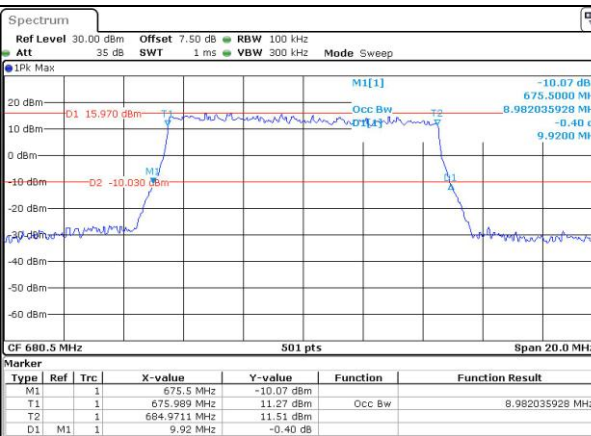


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:05:04

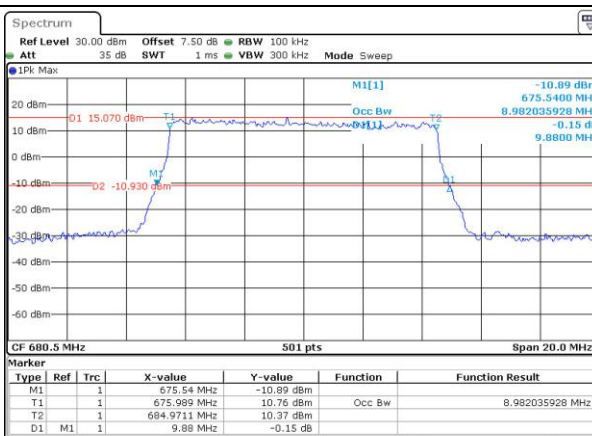


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:05:36

Middle

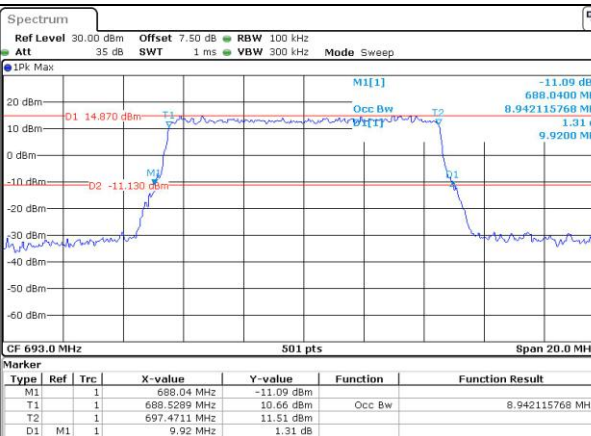


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:06:06

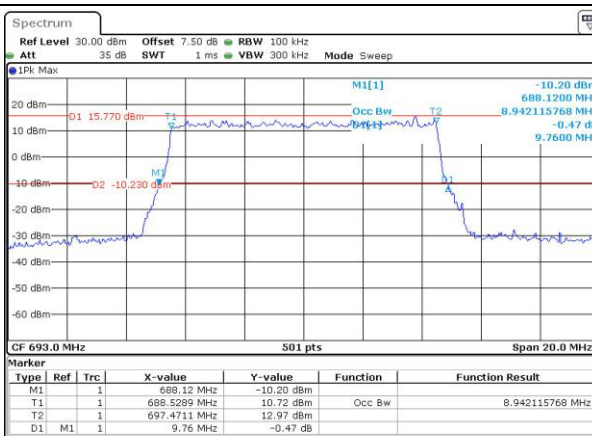


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:06:38

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:07:05



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei  
Date: 28.MAR.2024 00:07:40

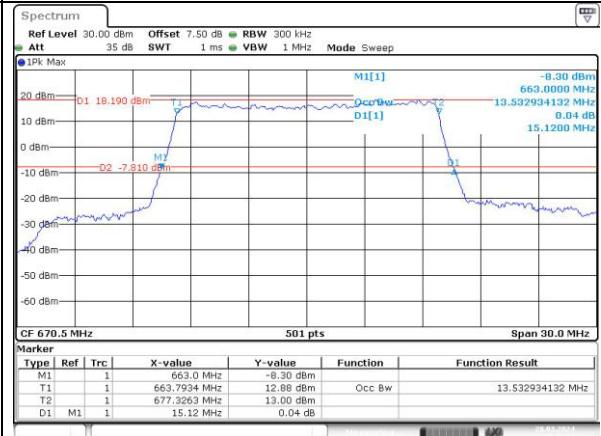
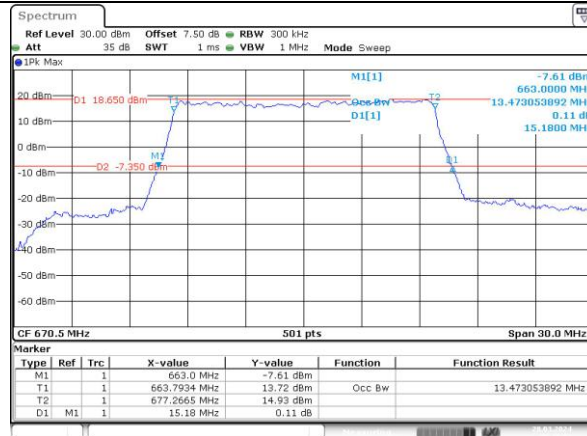
## Occupied Bandwidth

## Channel

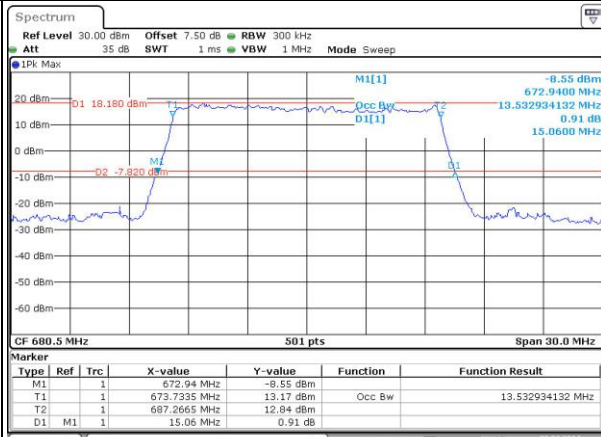
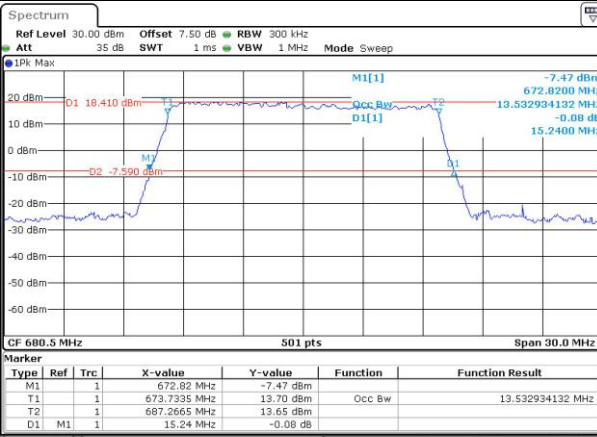
## 15MHz Bandwidth QPSK

## 15MHz Bandwidth 16QAM

## Lowest



## Middle



## Highest

