

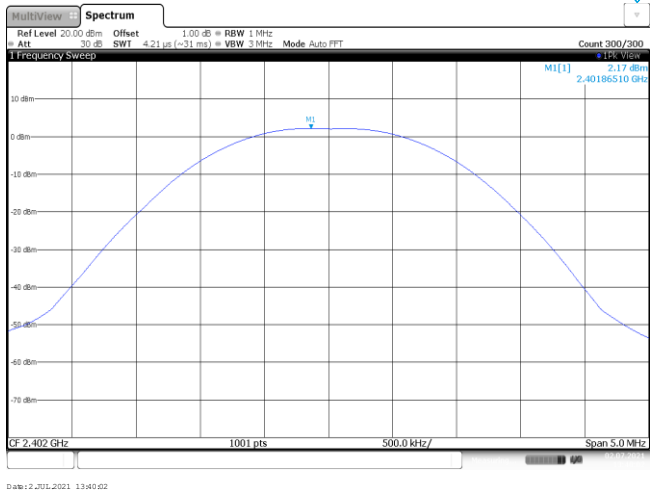
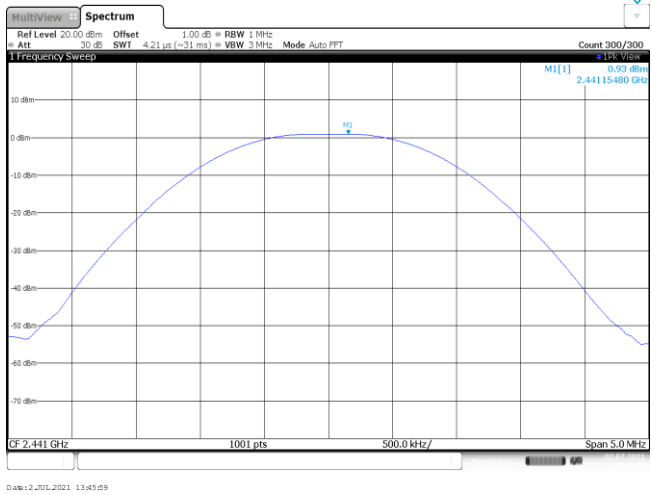
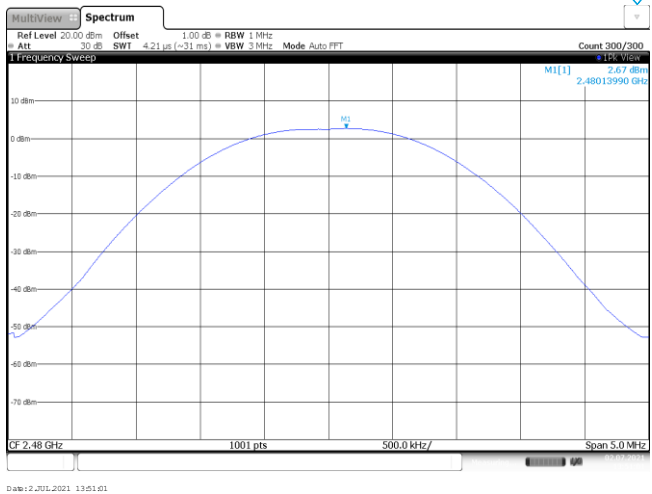
# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2106054104EW | Radio Specification | Bluetooth EDR |
| Test sample No. | YPHT21060541011 | Model No.           | VP880         |
| Start test date | 2021-07-02      | Finish date         | 2021-07-02    |
| Temperature     | 25.5°C          | Humidity            | 42%           |
| Test Engineer   | Hailey Chen     | Auditor             | Xiaodong Zhu  |

| Appendix clause | Test item                                  | Result |
|-----------------|--------------------------------------------|--------|
| A               | Peak Output Power                          | PASS   |
| B               | 20 dB Bandwidth                            | PASS   |
| C               | 99% Occupied Bandwidth                     | PASS   |
| D               | Carrier Frequencies Separation             | PASS   |
| E               | Hopping Channel Number                     | PASS   |
| F               | Dwell Time                                 | PASS   |
| G               | Duty Cycle Correction Factor (DCCF)        | PASS   |
| H               | Band edge and Spurious Emissions(coducted) | PASS   |

**Appendix A: Peak Output Power**

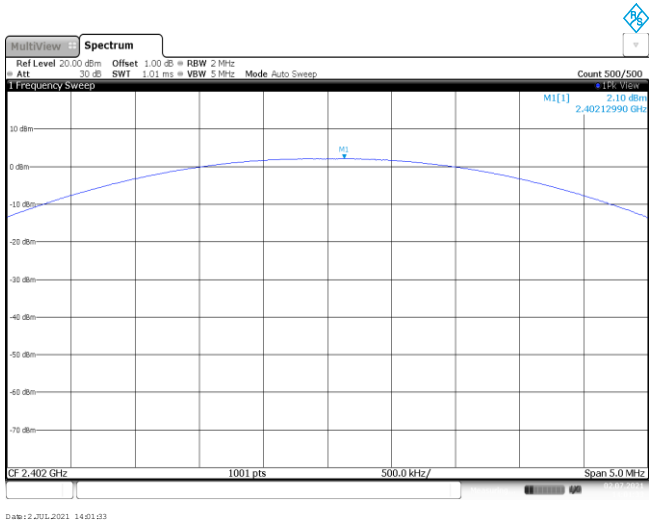
| Modulation type | Channel | Output power (dBm) | Average Output power (dBm) | Limit (dBm)  | Result |
|-----------------|---------|--------------------|----------------------------|--------------|--------|
| GFSK            | 00      | 2.17               | 2.15                       | $\leq 30.00$ | Pass   |
|                 | 39      | 0.93               | 0.90                       |              |        |
|                 | 78      | 2.67               | 2.65                       |              |        |
| $\pi/4$ DQPSK   | 00      | 2.10               | 1.49                       | $\leq 21.00$ | Pass   |
|                 | 39      | 0.90               | 0.30                       |              |        |
|                 | 78      | 2.79               | 2.20                       |              |        |
| 8DPSK           | 00      | 2.43               | 1.74                       | $\leq 21.00$ | Pass   |
|                 | 39      | 1.16               | 0.47                       |              |        |
|                 | 78      | 3.09               | 2.42                       |              |        |

| Modulation Type: | GFSK                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH00             |  <p>MultiView Spectrum<br/>Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz<br/>Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300<br/>1 Frequency Sweep<br/>M1[1] 2.17 dBm 2.40186510 GHz<br/>CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz<br/>Date: 2 JUL 2021 13:40:02</p>  |
| CH39             |  <p>MultiView Spectrum<br/>Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz<br/>Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300<br/>1 Frequency Sweep<br/>M1[1] 0.50 dBm 2.44115480 GHz<br/>CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz<br/>Date: 2 JUL 2021 13:45:59</p> |
| CH78             |  <p>MultiView Spectrum<br/>Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz<br/>Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300<br/>1 Frequency Sweep<br/>M1[1] 2.67 dBm 2.48012990 GHz<br/>CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz<br/>Date: 2 JUL 2021 13:51:01</p> |

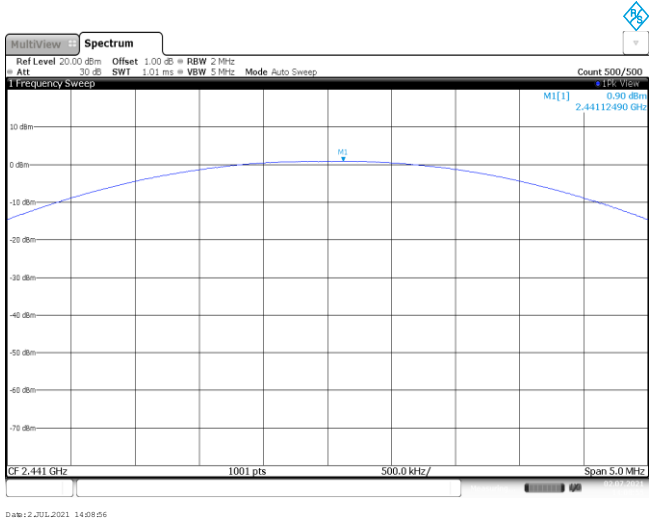
Modulation Type:

$\pi/4$ DQPSK

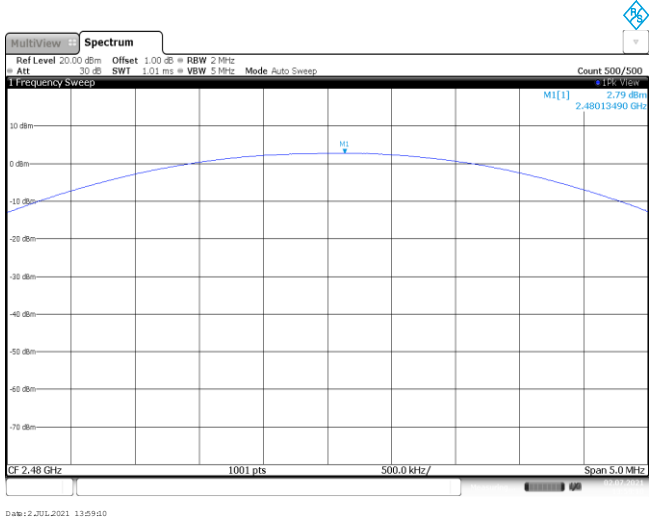
CH00



CH39



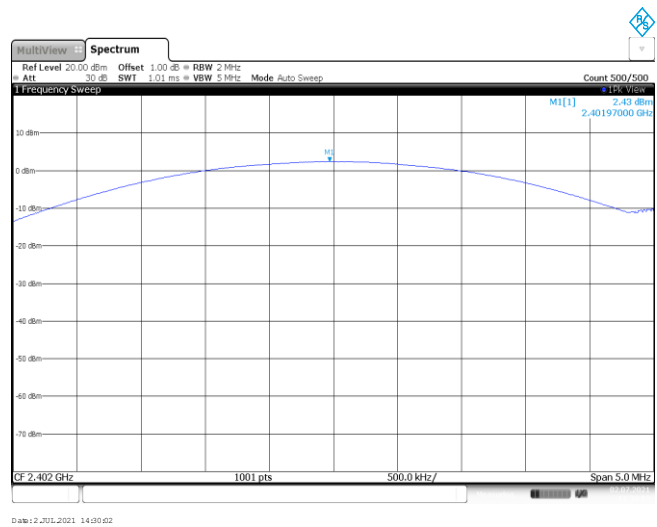
CH78



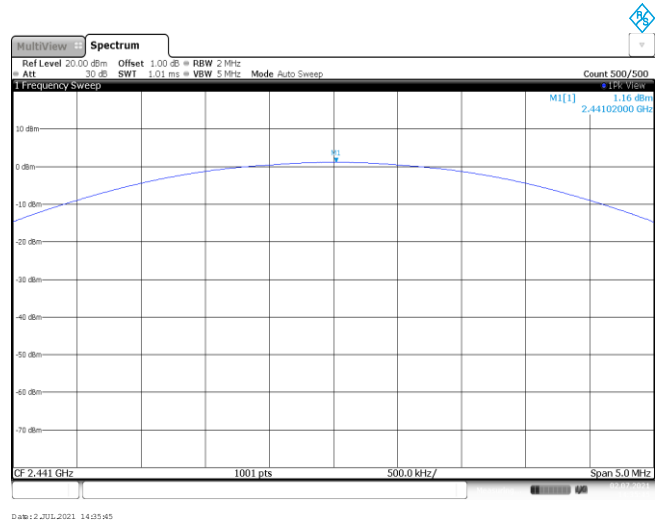
## Modulation Type:

8DPSK

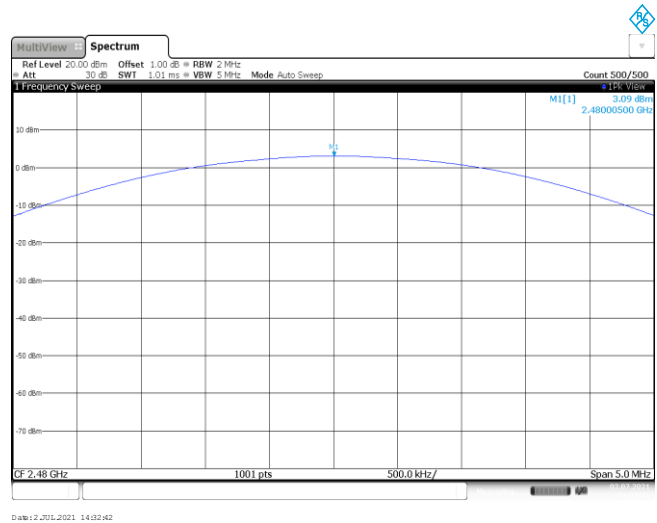
CH00



CH39

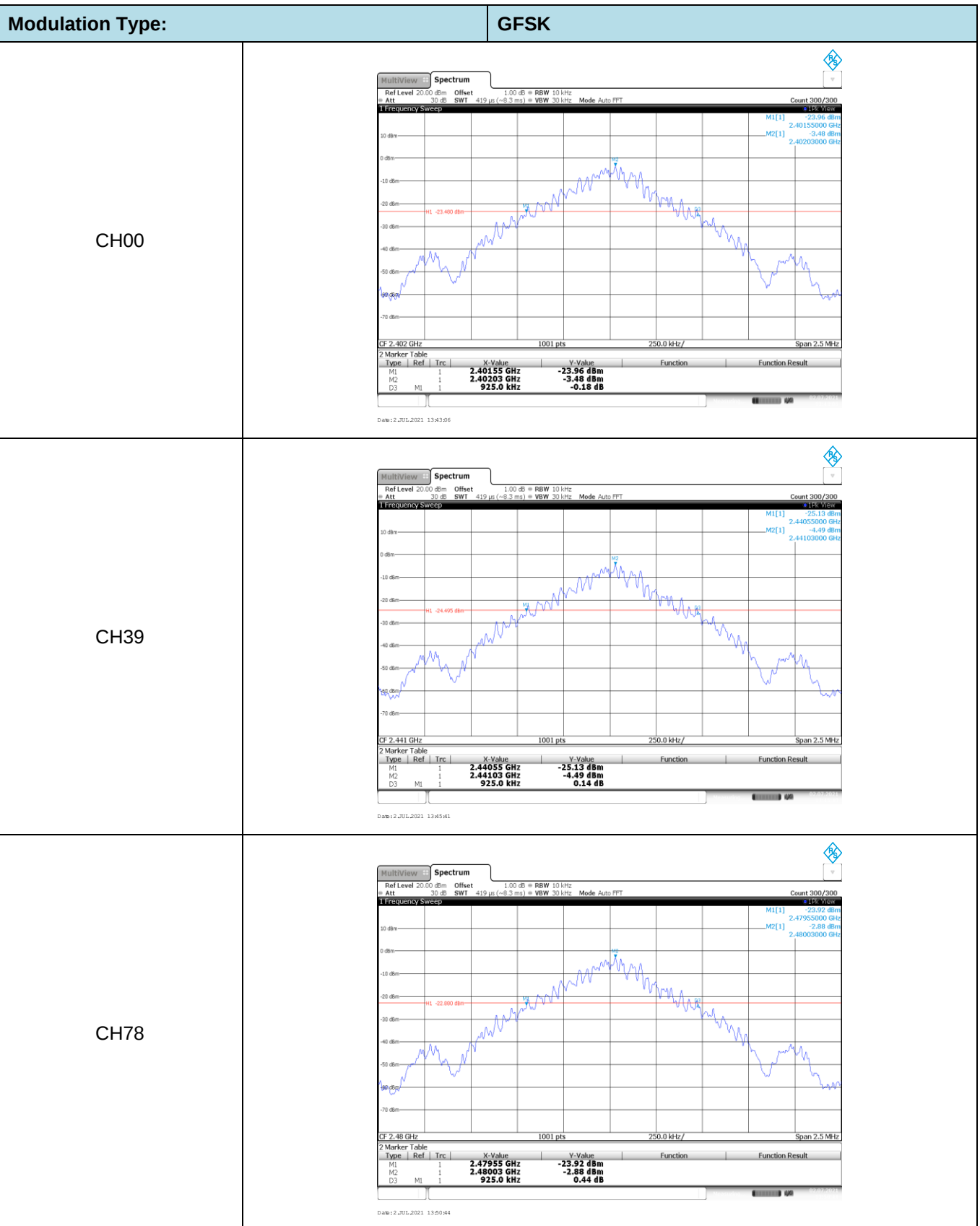


CH78



**Appendix B : 20 dB Bandwidth**

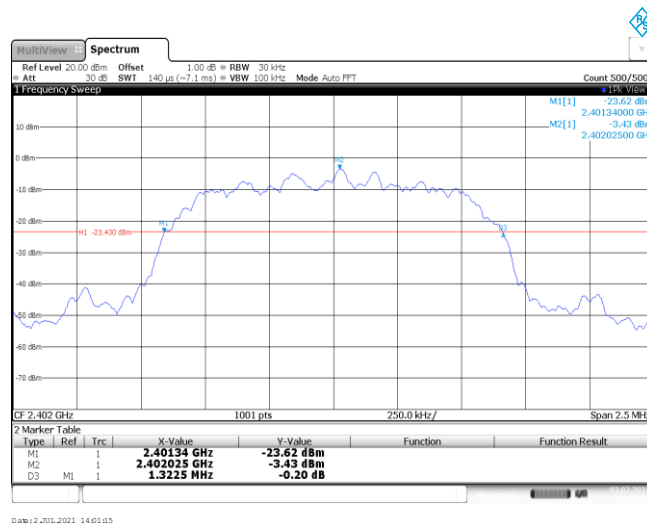
| Modulation type | Channel | 20 dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------|-----------------------|-------------|--------|
| GFSK            | 00      | 925.00                | -           | Pass   |
|                 | 39      | 925.00                |             |        |
|                 | 78      | 925.00                |             |        |
| $\pi/4$ DQPSK   | 00      | 1322.50               | -           | Pass   |
|                 | 39      | 1315.00               |             |        |
|                 | 78      | 1295.00               |             |        |
| 8DPSK           | 00      | 1305.00               | -           | Pass   |
|                 | 39      | 1300.00               |             |        |
|                 | 78      | 1300.00               |             |        |



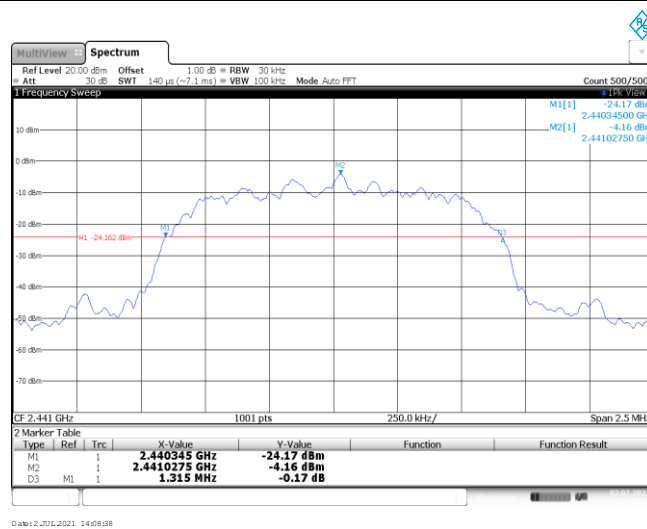
## Modulation Type:

 $\pi/4$ DQPSK

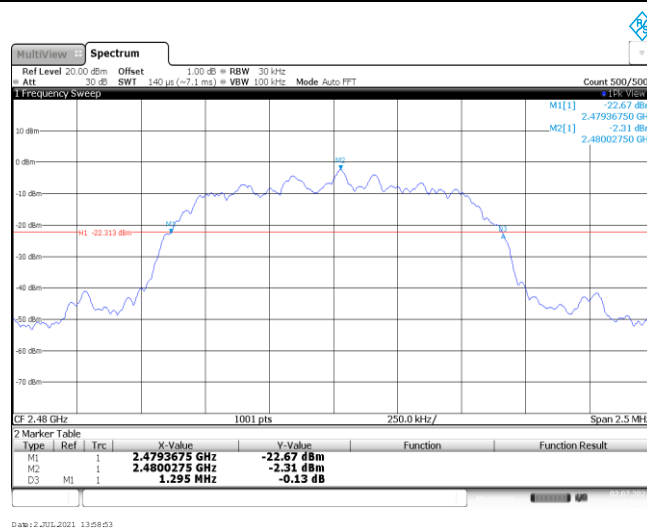
CH00



CH39



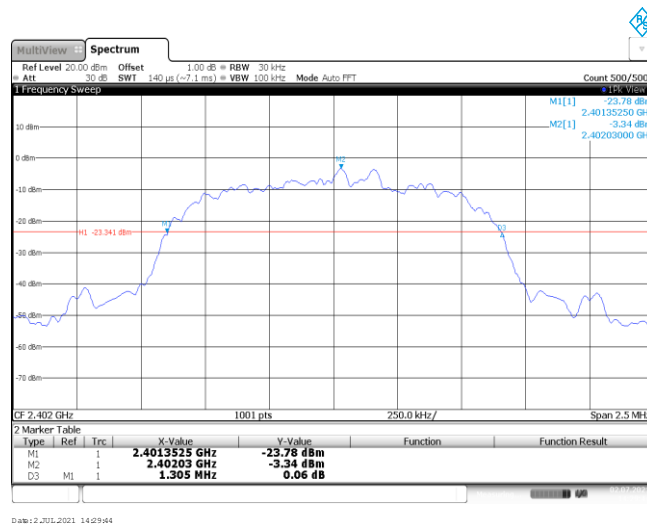
CH78



## Modulation Type:

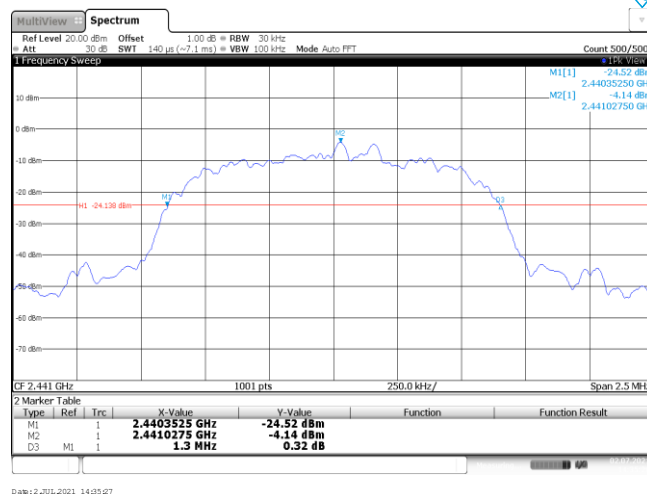
8DPSK

CH00



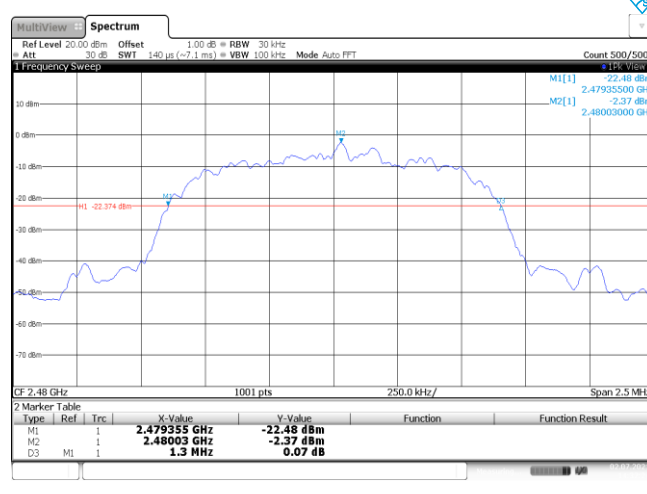
Date: 2 JUL 2021 14:29:44

CH39



Date: 2 JUL 2021 14:35:27

CH78



Date: 2 JUL 2021 14:32:04

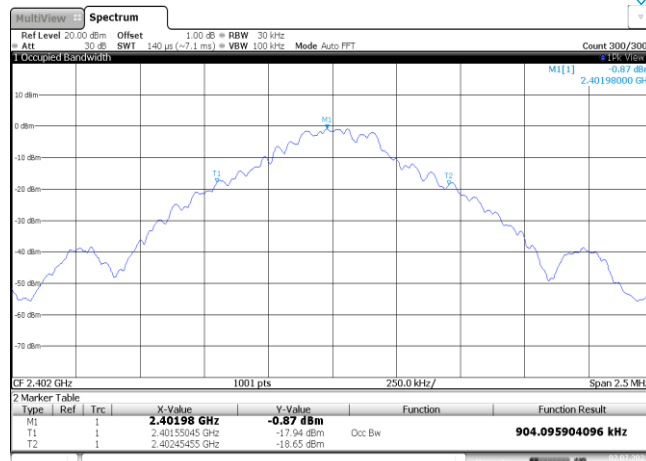
**Appendix C: 99% Occupied Bandwidth**

| Modulation type | Channel | 99% Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------------------------------|-------------|--------|
| GFSK            | 00      | 0.90                         | -           | Pass   |
|                 | 39      | 0.90                         |             |        |
|                 | 78      | 0.90                         |             |        |
| $\pi/4$ DQPSK   | 00      | 1.17                         | -           | Pass   |
|                 | 39      | 1.17                         |             |        |
|                 | 78      | 1.18                         |             |        |
| 8DPSK           | 00      | 1.18                         | -           | Pass   |
|                 | 39      | 1.18                         |             |        |
|                 | 78      | 1.18                         |             |        |

## Modulation Type:

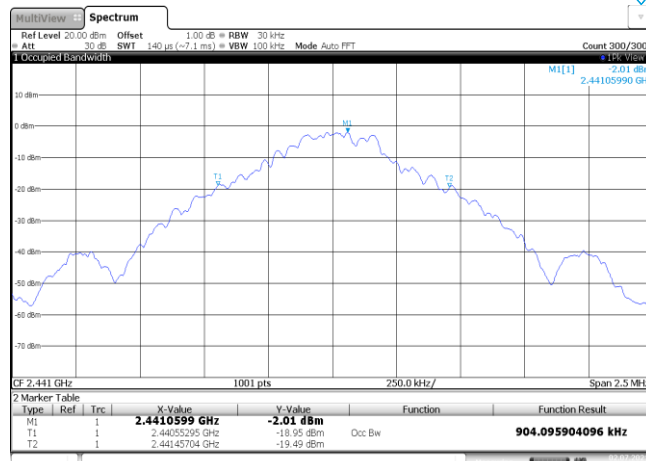
GFSK

CH00



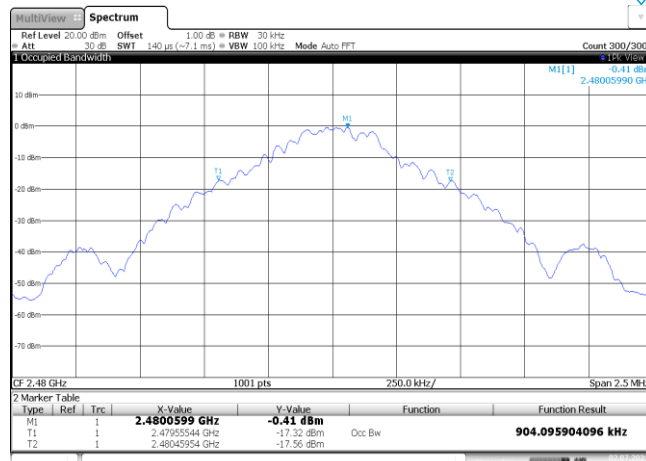
Date: 2 JUL 2021 13:43:14

CH39



Date: 2 JUL 2021 13:45:49

CH78



Date: 2 JUL 2021 13:50:52

## Modulation Type:

 $\pi$ /4DQPSK

CH00



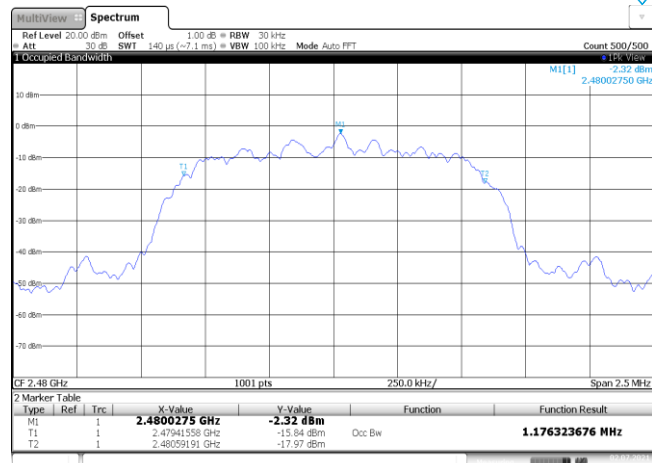
Date: 2 JUL 2021 14:01:23

CH39



Date: 2 JUL 2021 14:08:46

CH78

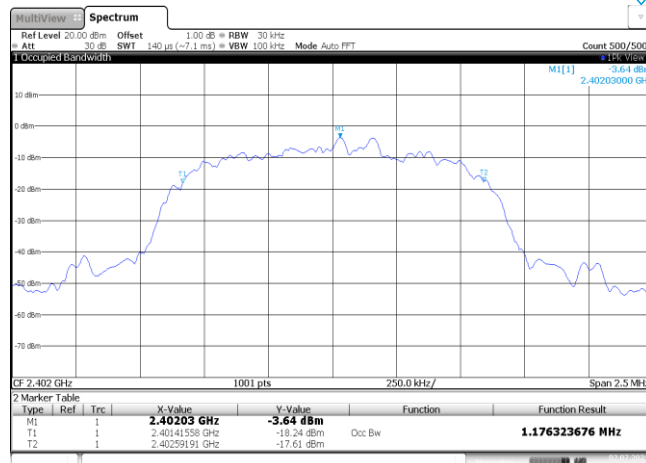


Date: 2 JUL 2021 13:59:01

## Modulation Type:

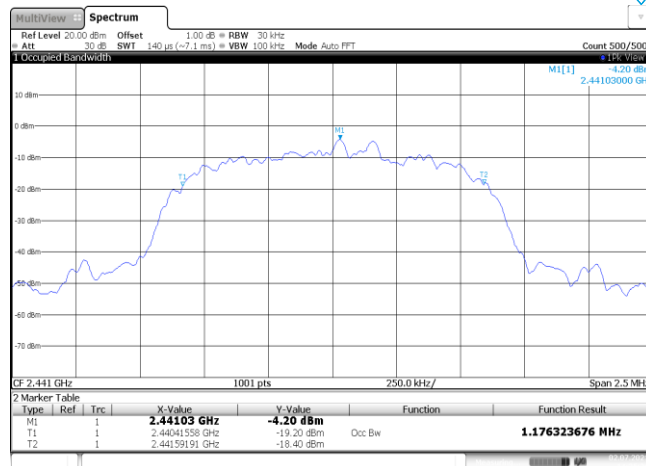
8DPSK

CH00



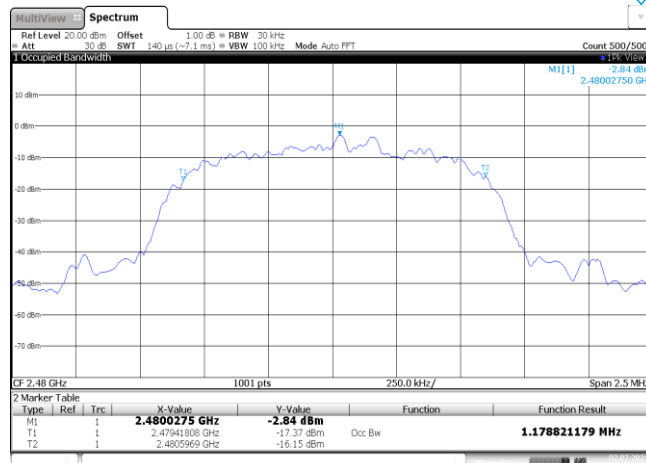
Date: 2 JUL 2021 14:29:53

CH39



Date: 2 JUL 2021 14:05:06

CH78



Date: 2 JUL 2021 14:02:02

**Appendix D: Carrier Frequencies Separation**

| Modulation type | Channel | Carrier Frequencies Separation (MHz) | Limit (kHz) * | Result |
|-----------------|---------|--------------------------------------|---------------|--------|
| GFSK            | 39      | 1.00                                 | ≥925.00       | Pass   |
| π/4DQPSK        | 39      | 1.01                                 | ≥881.67       | Pass   |
| 8DPSK           | 39      | 0.99                                 | ≥870.00       | Pass   |

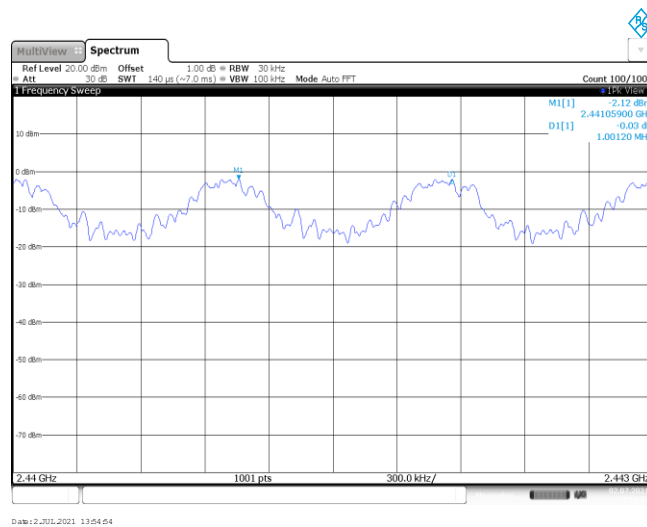
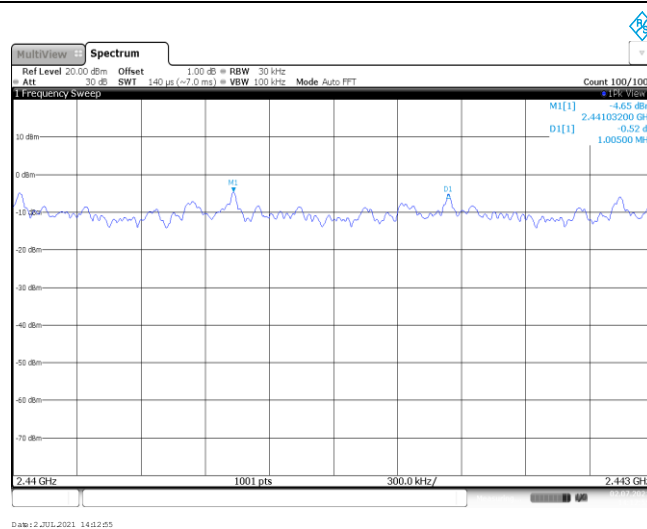
Note:

\*: GFSK limit = The maximum 20 dB Bandwidth for GFSK modulation on the appendix B.

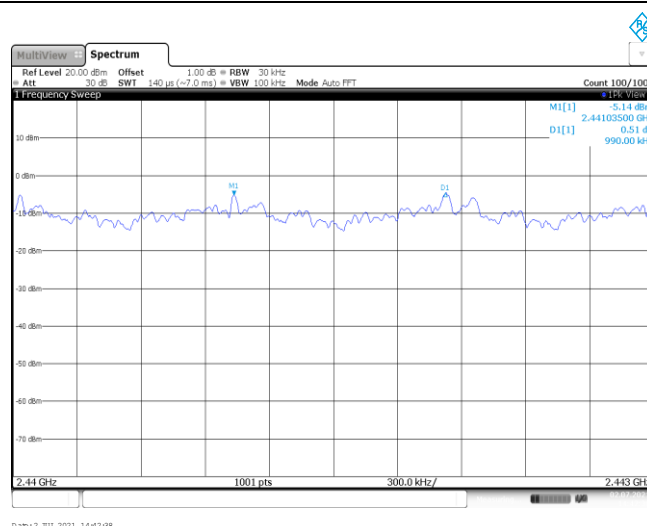
π/4DQPSK limit =  $\frac{2}{3}$  \* The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

8DPSK limit =  $\frac{2}{3}$  \* The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

GFSK

 $\pi/4$ DQPSK

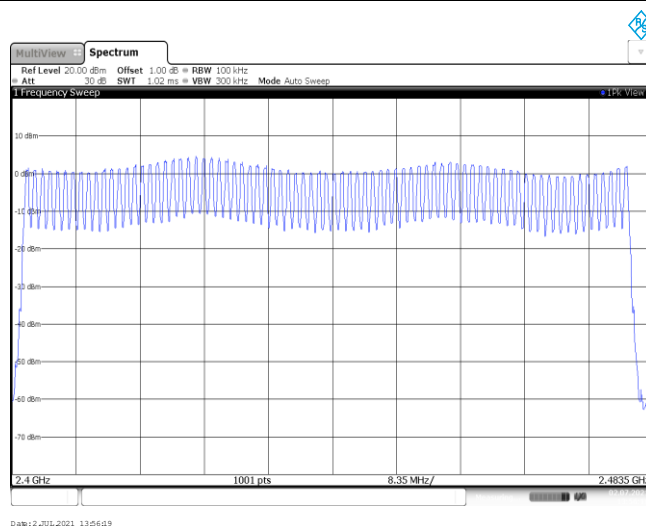
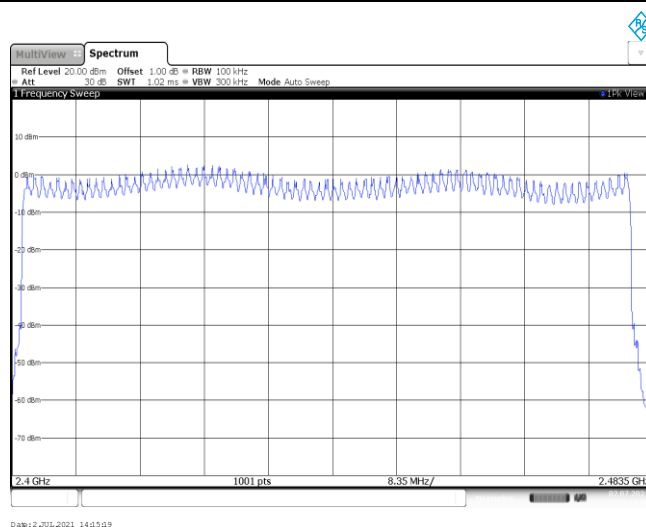
8DPSK



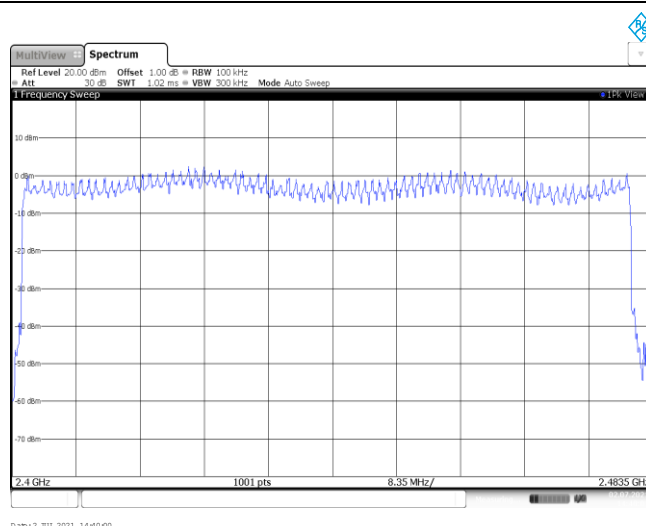
**Appendix E: Hopping Channel Number**

| Modulation type | Channel number | Limit  | Result |
|-----------------|----------------|--------|--------|
| GFSK            | 79             | ≥15.00 | Pass   |
| π/4DQPSK        | 79             |        |        |
| 8DPSK           | 79             |        |        |

GFSK

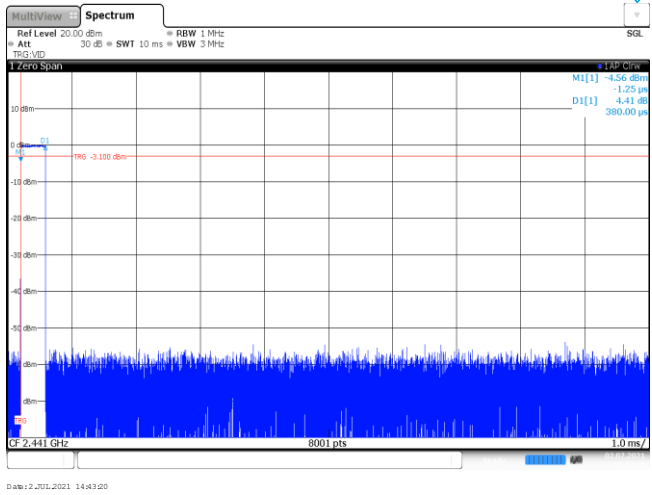
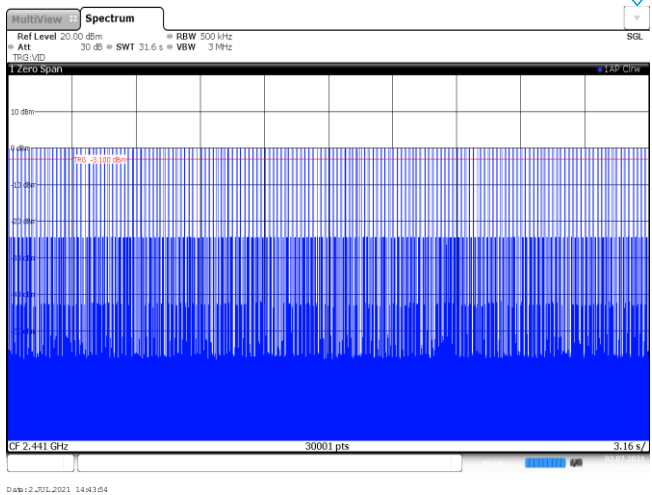
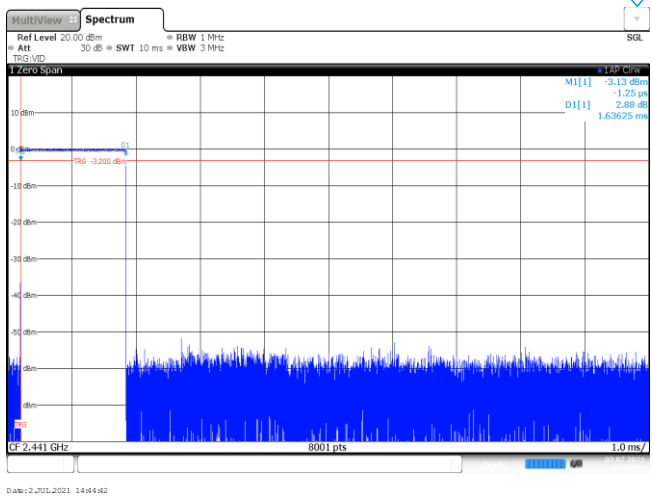
 $\pi/4$ DQPSK

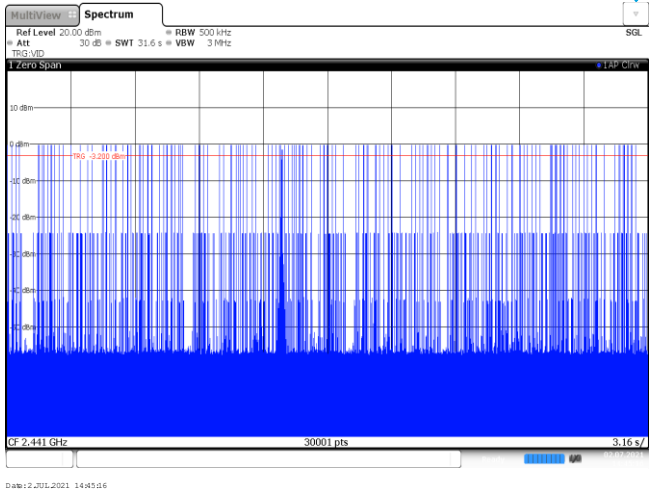
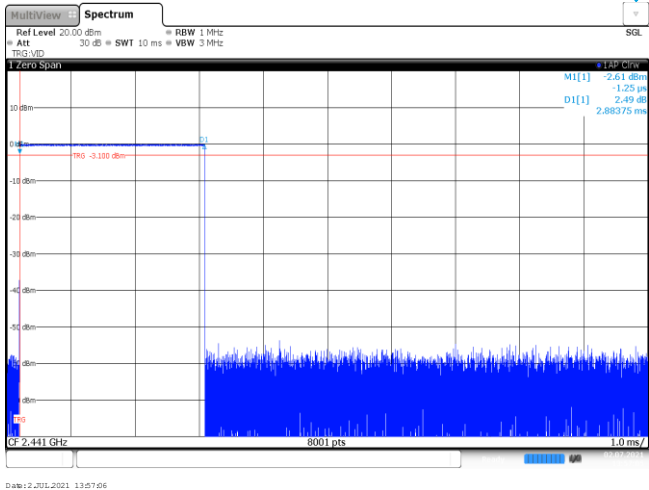
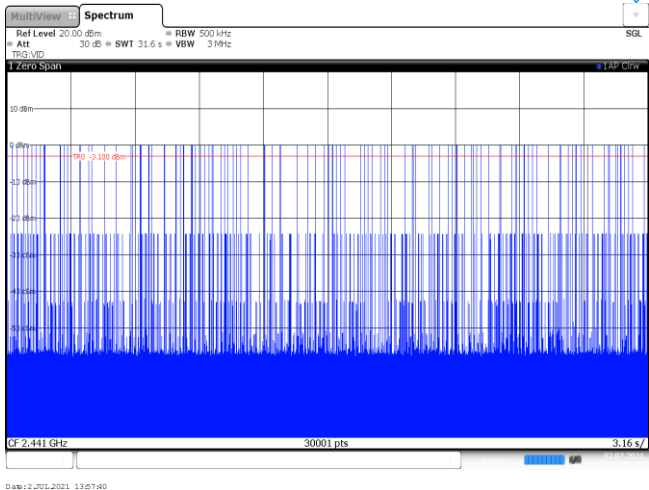
8DPSK

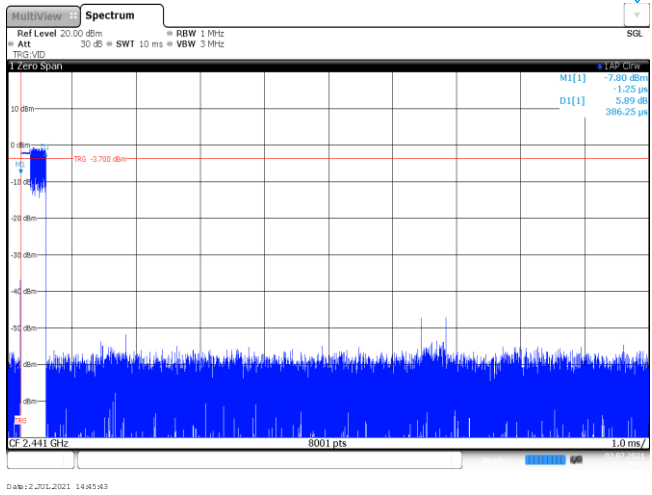
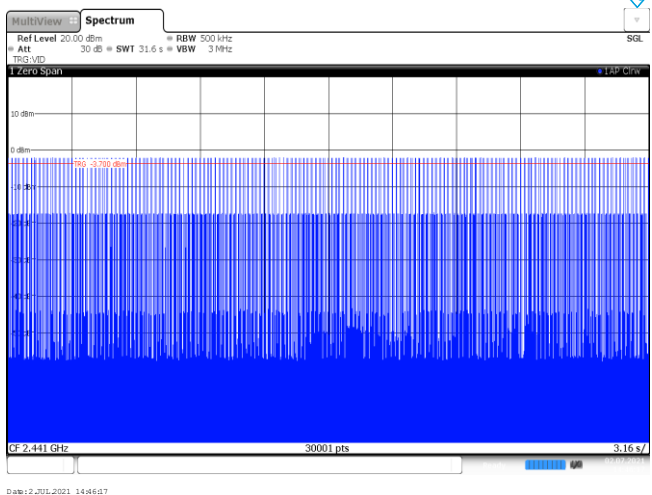
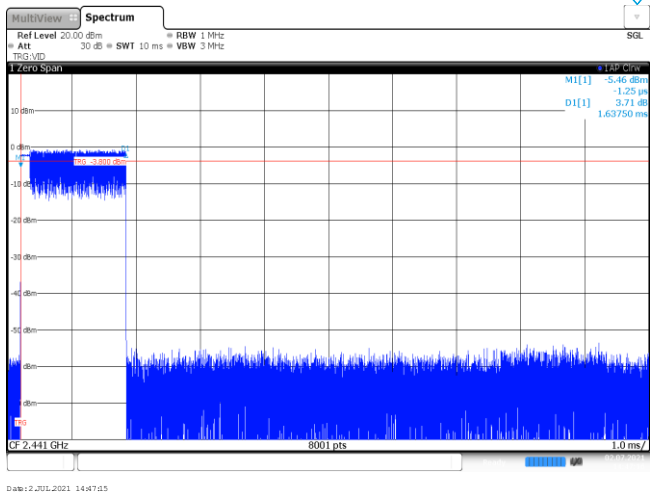


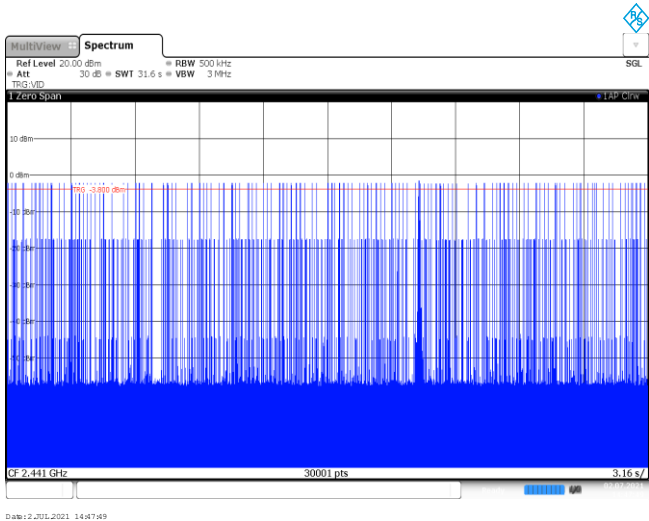
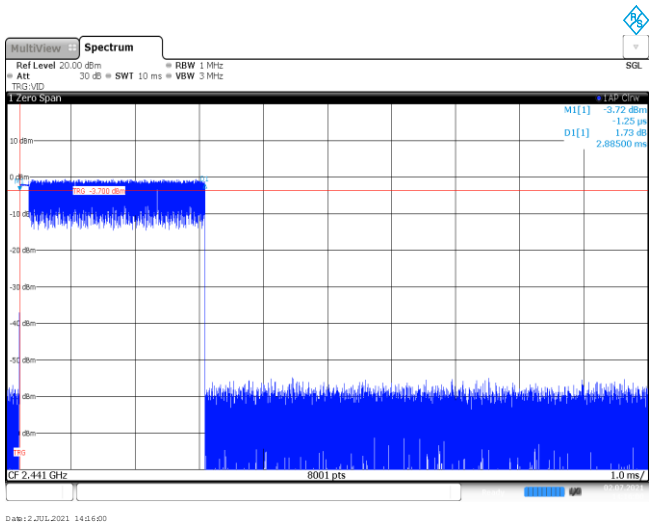
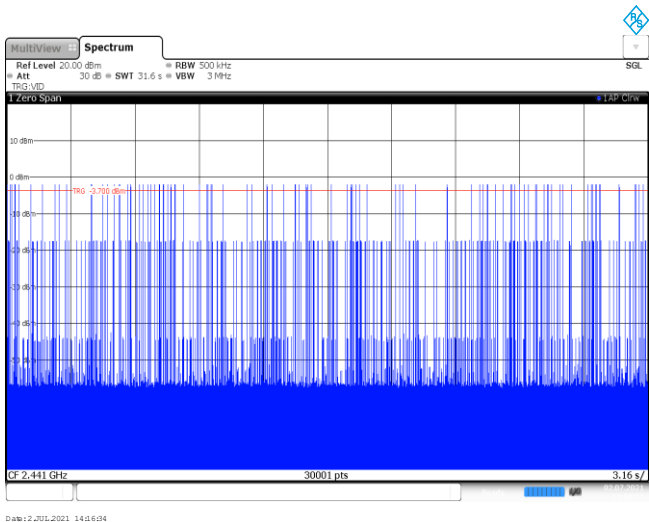
**Appendix F: Dwell Time**

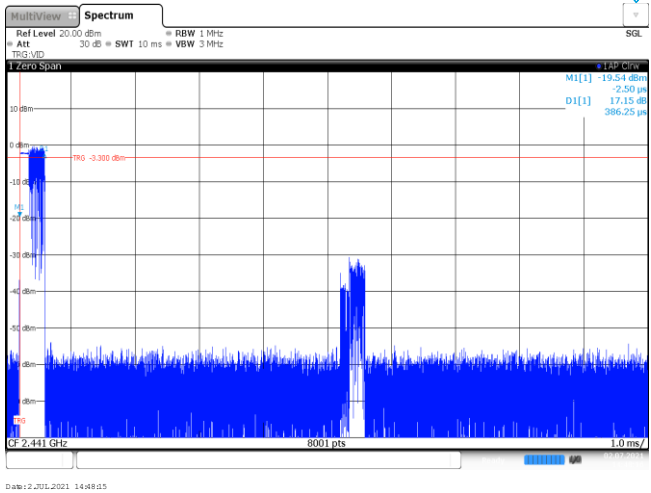
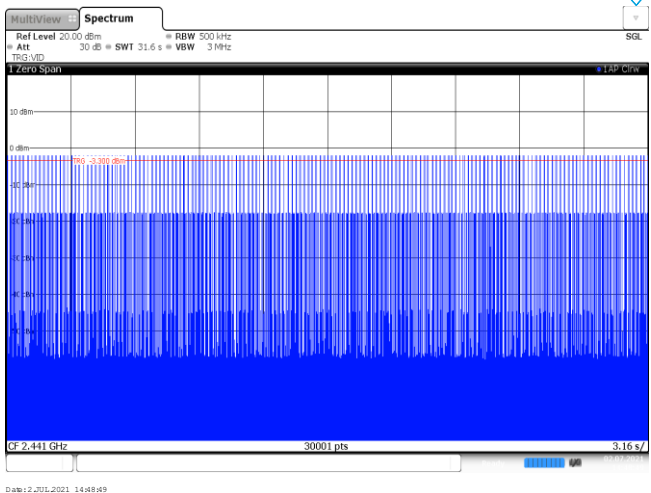
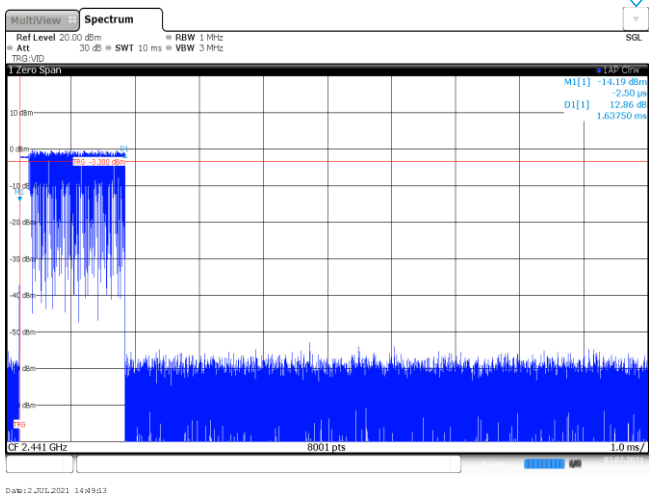
| Modulation type | Packet | Burst Width [ms] | Total Hops[hop*ch] | Dwell time (Second) | Limit (Second) | Result |
|-----------------|--------|------------------|--------------------|---------------------|----------------|--------|
| GFSK            | DH1    | 0.38             | 320                | 0.12                | $\leq 0.40$    | Pass   |
|                 | DH3    | 1.64             | 165                | 0.27                |                |        |
|                 | DH5    | 2.88             | 112                | 0.32                |                |        |
| $\pi/4$ DQPSK   | 2DH1   | 0.39             | 320                | 0.12                | $\leq 0.40$    | Pass   |
|                 | 2DH3   | 1.64             | 173                | 0.28                |                |        |
|                 | 2DH5   | 2.89             | 97                 | 0.28                |                |        |
| 8DPSK           | 3DH1   | 0.39             | 313                | 0.12                | $\leq 0.40$    | Pass   |
|                 | 3DH3   | 1.64             | 164                | 0.27                |                |        |
|                 | 3DH5   | 2.89             | 91                 | 0.26                |                |        |

| Modulation Type:    | GFSK                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DH1<br>Burst width  |  <p>The spectrum plot shows a single burst of energy at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the burst width at -3.100 dBm. The plot is labeled 'Spectrum' and '1 Zero Span'. The date is 2 JUL 2021 14:43:20.</p>    |
| DH1<br>Burst number |  <p>The spectrum plot shows multiple bursts of energy at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the burst number at -3.100 dBm. The plot is labeled 'Spectrum' and '1 Zero Span'. The date is 2 JUL 2021 14:43:04.</p> |
| DH3<br>Burst width  |  <p>The spectrum plot shows a single burst of energy at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the burst width at -3.200 dBm. The plot is labeled 'Spectrum' and '1 Zero Span'. The date is 2 JUL 2021 14:44:42.</p>  |

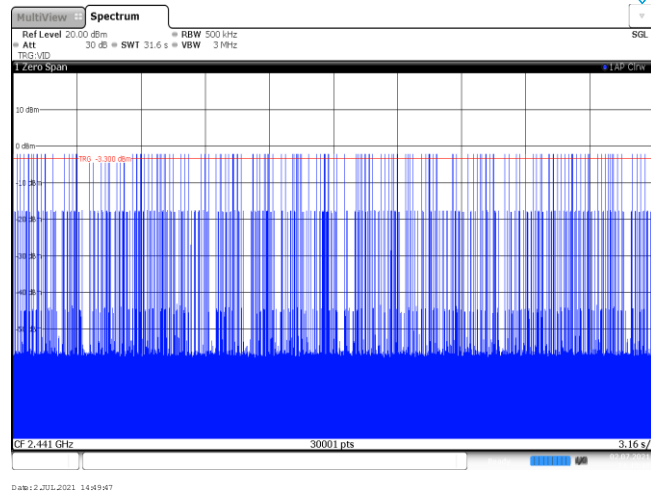
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>DH3<br/>Burst number</p> |  <p>The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis is labeled 'dBm' and ranges from -10 to -90. The x-axis is labeled 'CF 2.441 GHz' and ranges from 30001 pts to 3.16 s. The plot shows a dense, noisy signal across the entire frequency range. The date '2 JUL 2021 14:45:16' is displayed at the bottom.</p>   |
| <p>DH5<br/>Burst width</p>  |  <p>The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis is labeled 'dBm' and ranges from -10 to -90. The x-axis is labeled 'CF 2.441 GHz' and ranges from 8001 pts to 1.0 ms. The plot shows a dense, noisy signal across the entire frequency range. The date '2 JUL 2021 13:07:06' is displayed at the bottom.</p>   |
| <p>DH5<br/>Burst number</p> |  <p>The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis is labeled 'dBm' and ranges from -10 to -90. The x-axis is labeled 'CF 2.441 GHz' and ranges from 30001 pts to 3.16 s. The plot shows a dense, noisy signal across the entire frequency range. The date '2 JUL 2021 13:57:40' is displayed at the bottom.</p> |

| Modulation Type:     | $\pi/4$ DQPSK                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2DH1<br>Burst width  |  <p>The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -3.700 dBm. The plot shows a burst of signal at the beginning, followed by a period of low power. The x-axis represents time in ms, with a scale of 1.0 ms.</p>   |
| 2DH1<br>Burst number |  <p>The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -3.700 dBm. The plot shows a burst of signal at the beginning, followed by a period of low power. The x-axis represents time in ms, with a scale of 3.16 s.</p> |
| 2DH3<br>Burst width  |  <p>The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -3.700 dBm. The plot shows a burst of signal at the beginning, followed by a period of low power. The x-axis represents time in ms, with a scale of 1.0 ms.</p> |

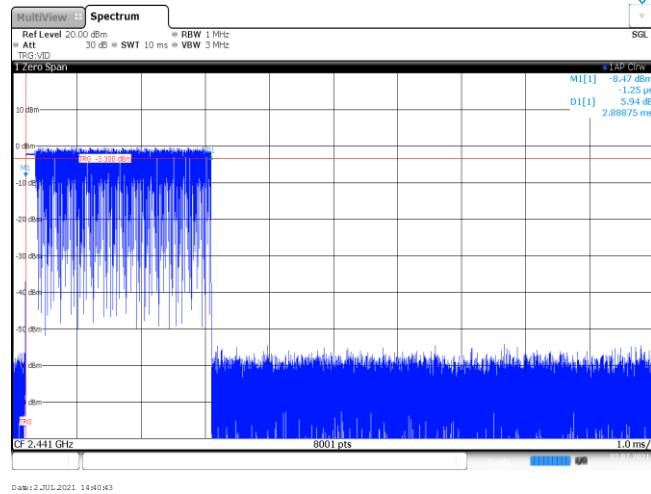
|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| 2DH3<br>Burst number |    |
| 2DH5<br>Burst width  |   |
| 2DH5<br>Burst number |  |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulation Type:     | 8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3DH1<br>Burst width  |  <p>The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the -30 dB level. The signal is a burst of energy, with a peak power of approximately -19.54 dBm. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot is titled '3DH1 Burst width'.</p>   |
| 3DH1<br>Burst number |  <p>The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the -30 dB level. The signal is a burst of energy, with a peak power of approximately -19.54 dBm. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot is titled '3DH1 Burst number'.</p> |
| 3DH3<br>Burst width  |  <p>The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the -30 dB level. The signal is a burst of energy, with a peak power of approximately -14.19 dBm. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot is titled '3DH3 Burst width'.</p> |

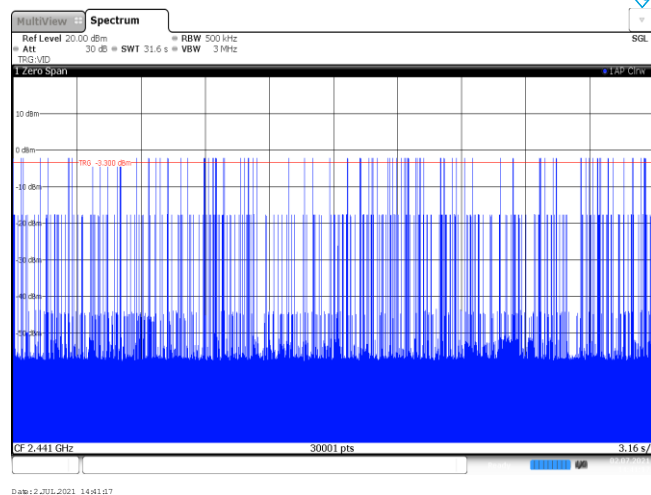
3DH3  
Burst number



3DH5  
Burst width



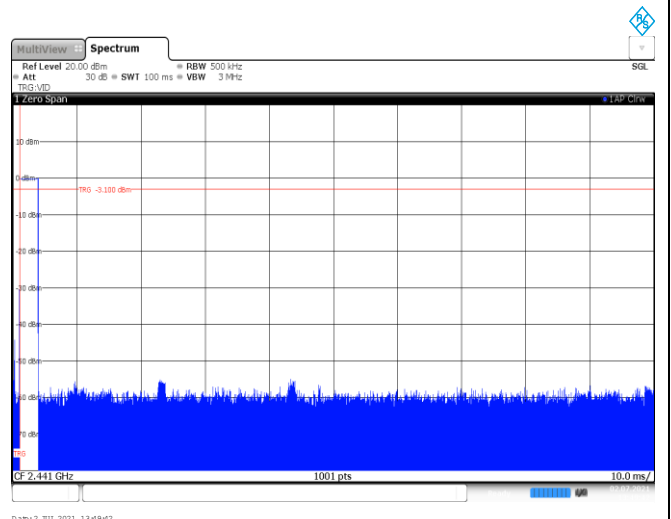
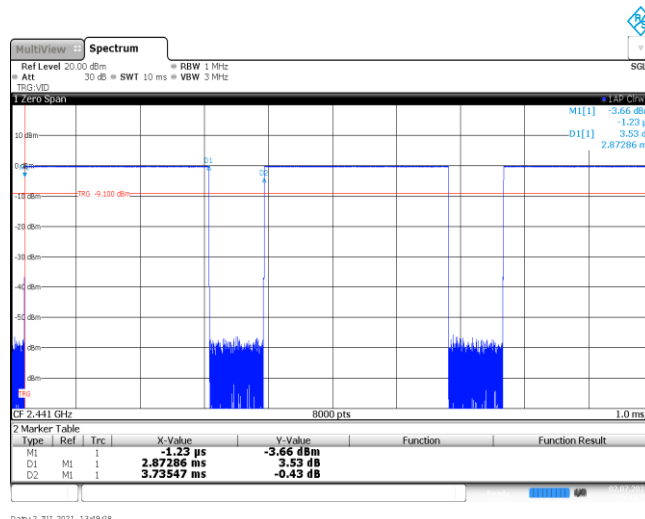
3DH5  
Burst number



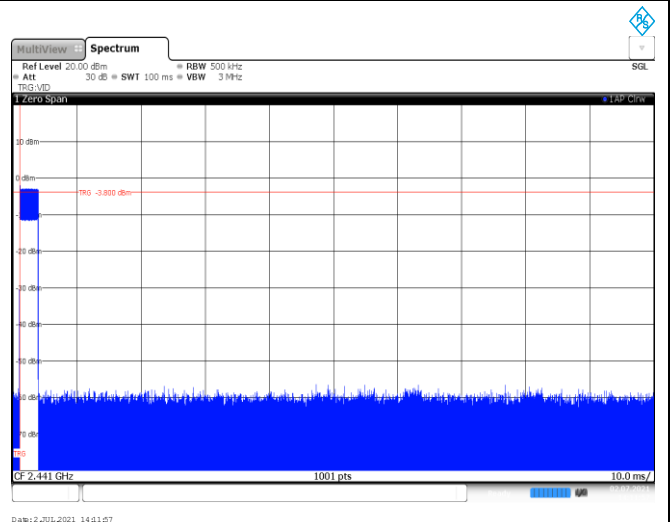
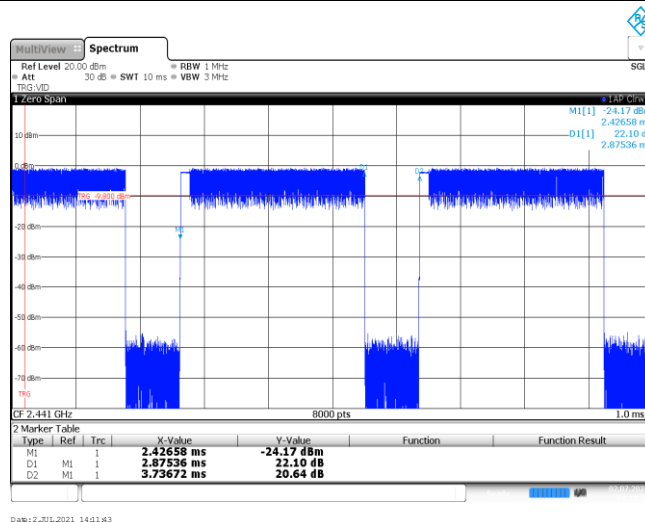
**Appendix G: Duty Cycle Correction Factor (DCCF)**

| DCCF Calculate Formula                                                           |                      |                                            |                          |                |           |
|----------------------------------------------------------------------------------|----------------------|--------------------------------------------|--------------------------|----------------|-----------|
| DCCF=20 * Log(duty cycle) = 20 * Log( $T_{\text{on time}} / T_{\text{period}}$ ) |                      |                                            |                          |                |           |
| Modulation type                                                                  | Test Frequency (MHz) | $T_{\text{on time}}$ for single burst [ms] | $T_{\text{period}}$ [ms] | Burst Quantity | DCCF [dB] |
| GFSK                                                                             | 2441                 | 2.87                                       | 100                      | 1              | -30.84    |
| $\pi/4$ DQPSK                                                                    | 2441                 | 2.88                                       | 100                      | 1              | -30.81    |
| 8DPSK                                                                            | 2441                 | 2.88                                       | 100                      | 1              | -30.81    |

## GFSK

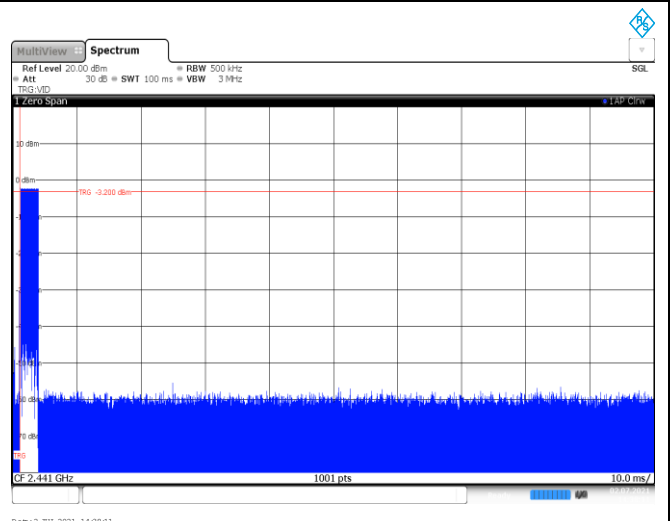
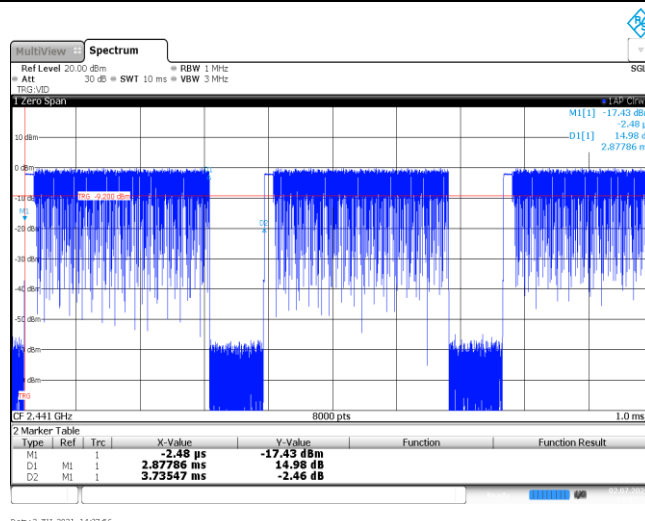
T<sub>on</sub> time for single burst

Burst Quantity

 $\pi/4$  DQPSKT<sub>on</sub> time for single burst

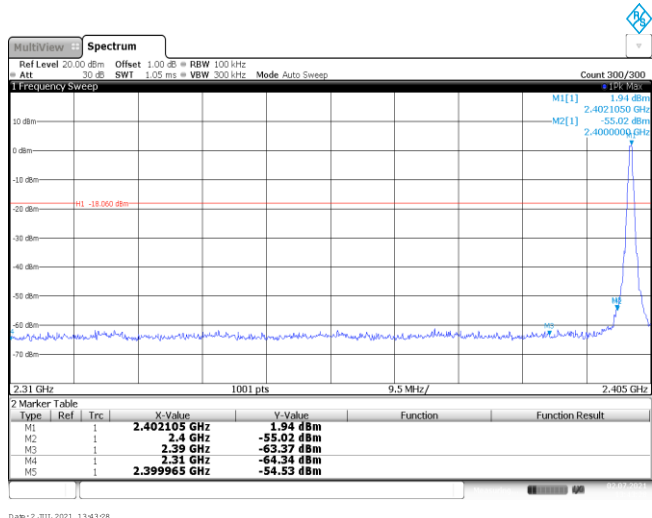
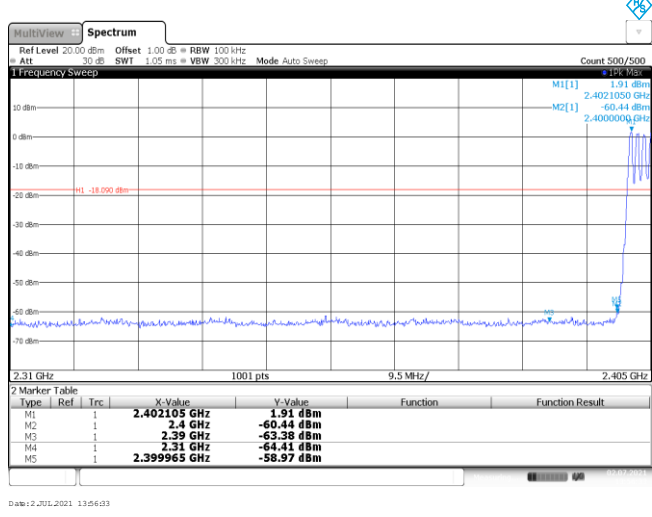
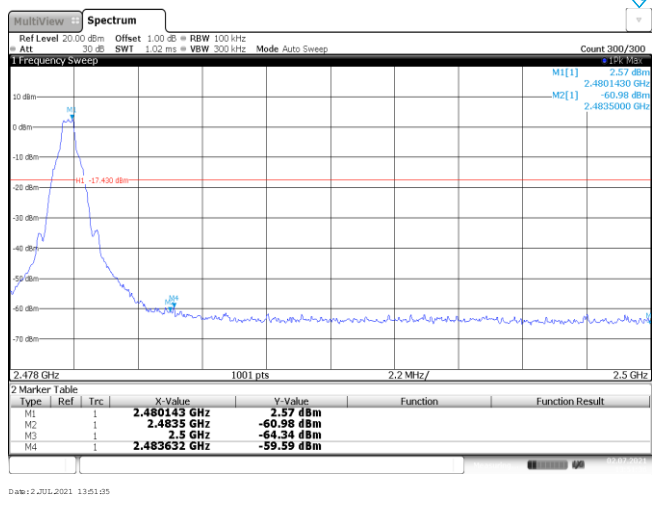
Burst Quantity

## 8DPSK

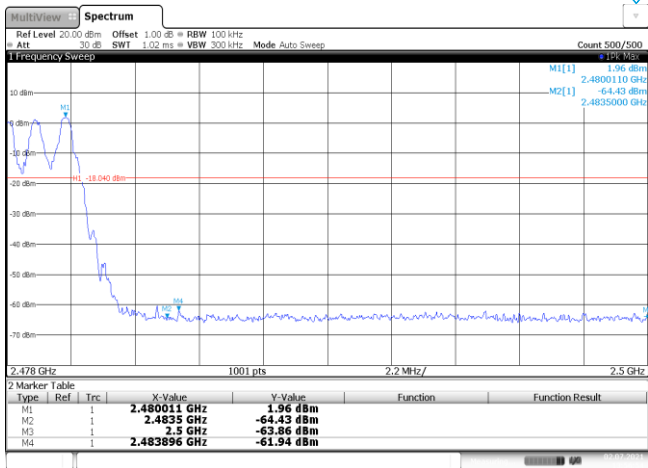
T<sub>on</sub> time for single burst

Burst Quantity

## Appendix H: Band edge and Spurious Emissions (conducted)

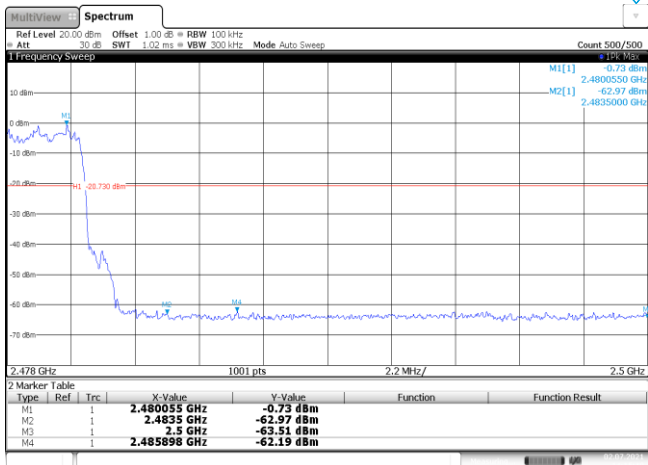
| Test Item:              | Band edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Modulation type: | GFSK         |            |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH00<br>No hopping mode | <div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>1.94 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-55.02 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.37 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.34 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-54.53 dBm</td><td></td><td></td></tr></table></div>  |                  |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.402105 GHz | 1.94 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -55.02 dBm |  |  | M3 | 1 |  | 2.39 GHz | -63.37 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -64.34 dBm |  |  | M5 | 1 |  | 2.399965 GHz | -54.53 dBm |  |  |
| Type                    | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trc              | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.402105 GHz | 1.94 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.4 GHz      | -55.02 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.39 GHz     | -63.37 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.31 GHz     | -64.34 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.399965 GHz | -54.53 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH00<br>Hopping mode    | <div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>1.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-60.44 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.38 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.41 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-58.97 dBm</td><td></td><td></td></tr></table></div> |                  |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.402105 GHz | 1.91 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -60.44 dBm |  |  | M3 | 1 |  | 2.39 GHz | -63.38 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -64.41 dBm |  |  | M5 | 1 |  | 2.399965 GHz | -58.97 dBm |  |  |
| Type                    | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trc              | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.402105 GHz | 1.91 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.4 GHz      | -60.44 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.39 GHz     | -63.38 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.31 GHz     | -64.41 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.399965 GHz | -58.97 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH78<br>No hopping mode | <div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.480143 GHz</td><td>2.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-60.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.34 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483632 GHz</td><td>-59.59 dBm</td><td></td><td></td></tr></table></div>                                                                                           |                  |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.480143 GHz | 2.57 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -60.98 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -64.34 dBm |  |  | M4 | 1 |  | 2.483632 GHz | -59.59 dBm |  |  |    |   |  |              |            |  |  |
| Type                    | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trc              | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.480143 GHz | 2.57 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.4835 GHz   | -60.98 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.5 GHz      | -64.34 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 2.483632 GHz | -59.59 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

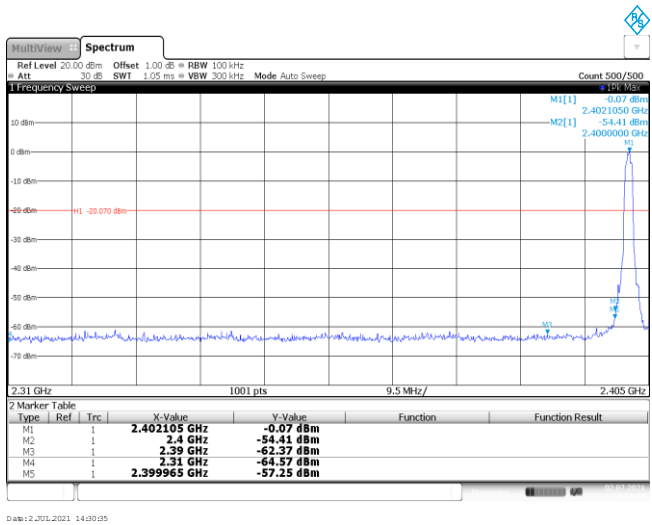
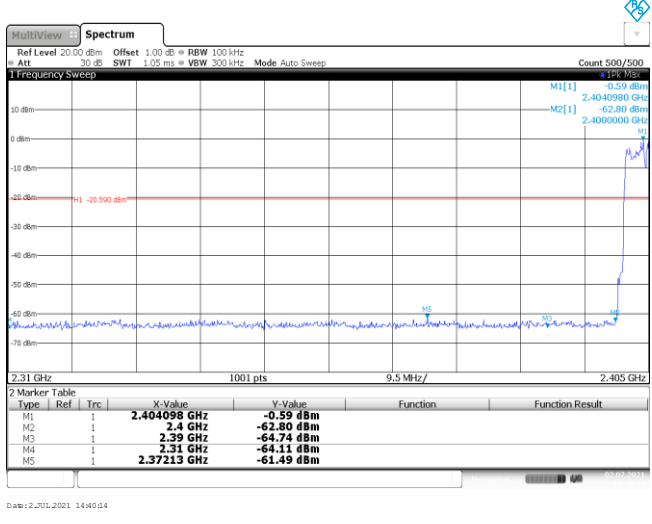
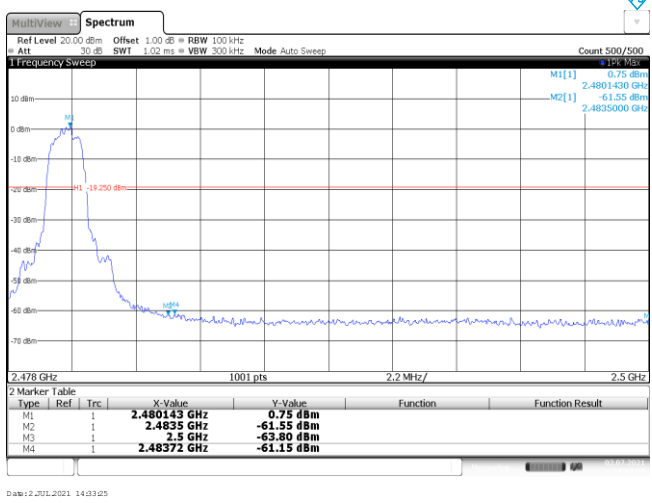
CH78  
Hopping mode



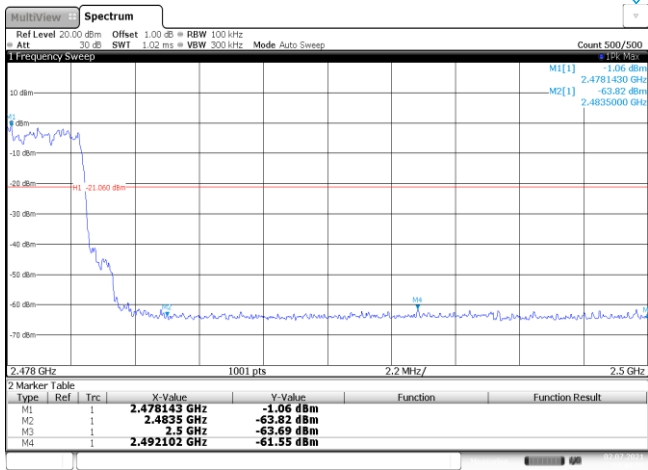
| Test Item:              | Band edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Modulation type: | $\pi/4$ DQPSK |
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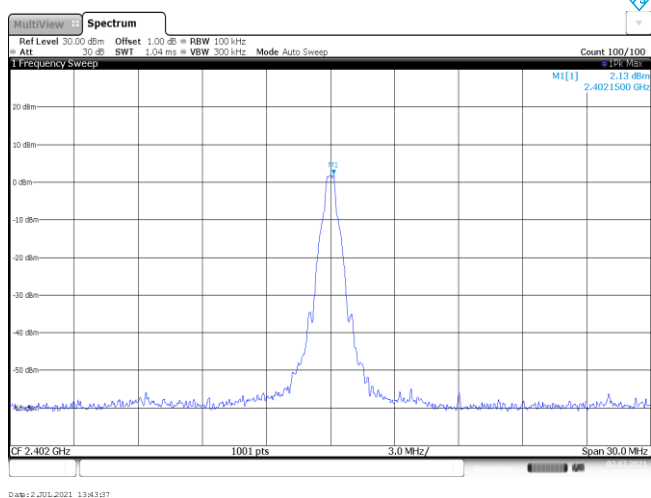
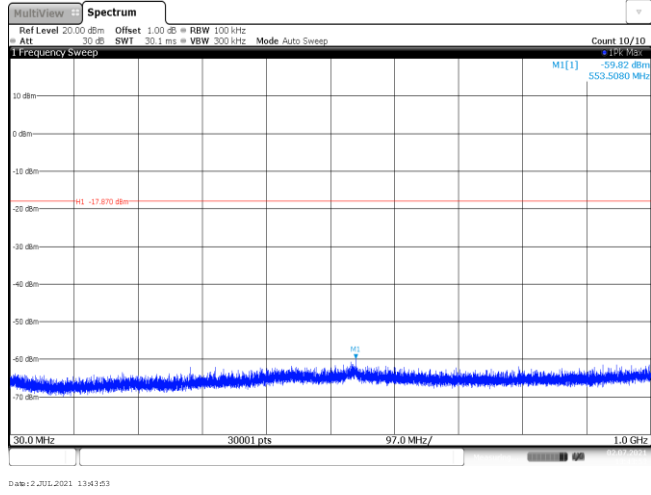
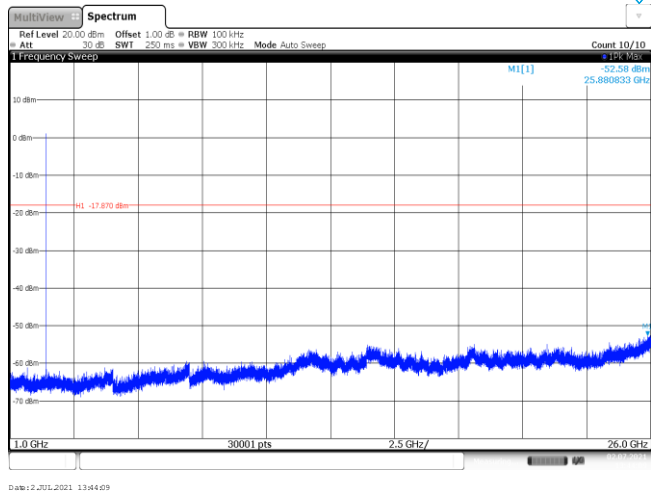
CH78  
Hopping mode



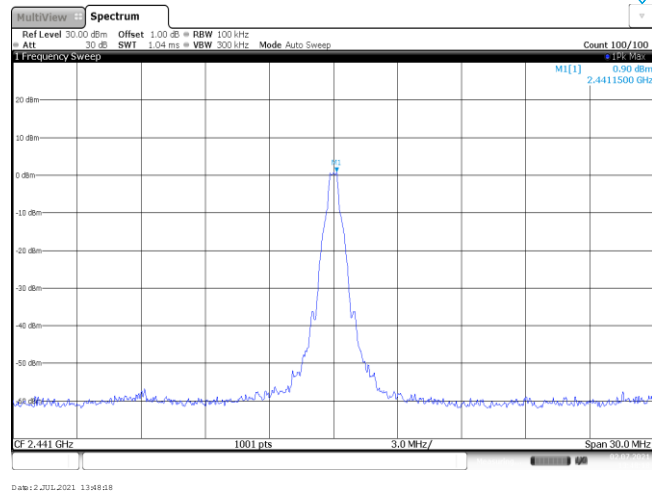
| Test Item:              | Band edge                                                                                                            | Modulation type: | 8DPSK |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|------------------|-------|
| CH00<br>No hopping mode |  <p>CH00<br/>No hopping mode</p>   |                  |       |
| CH00<br>Hopping mode    |  <p>CH00<br/>Hopping mode</p>     |                  |       |
| CH78<br>No hopping mode |  <p>CH78<br/>No hopping mode</p> |                  |       |

CH78  
Hoppig mode

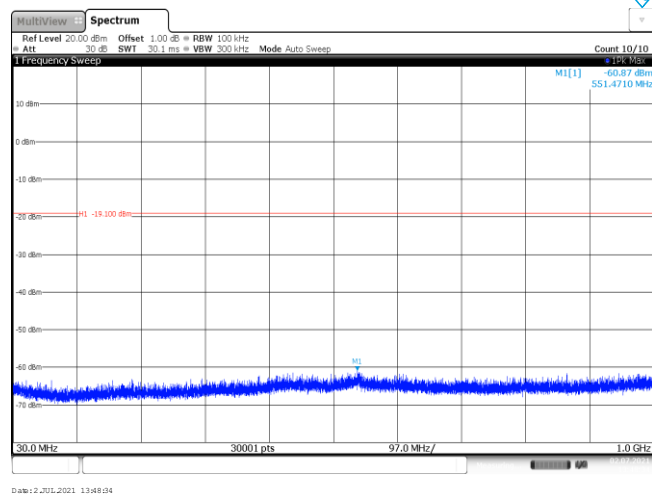


| Test Item:              | Spurious Emission                                                                                                                                                                                                                                                                                                                               | Modulation type: | GFSK |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|
| CH00<br>Reference level |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] 2.13 dBm<br/>2.4021500 GHz<br/>CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date: 2 JUL 2021 13:43:37</p>            |                  |      |
| CH00<br>30MHz~1000MHz   |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -59.82 dBm<br/>553.5090 MHz<br/>H1 -17.670 dBm<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 2 JUL 2021 13:43:53</p> |                  |      |
| CH00<br>1GHz~26GHz      |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -52.58 dBm<br/>25.880833 GHz<br/>H1 -17.670 dBm<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 2 JUL 2021 13:44:09</p> |                  |      |

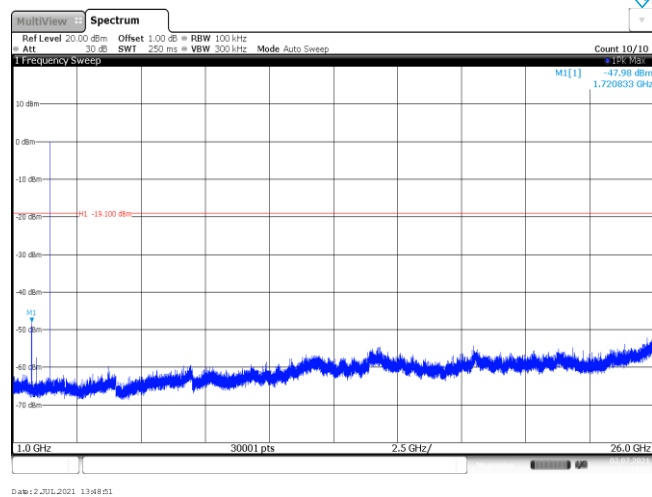
CH39  
Reference level



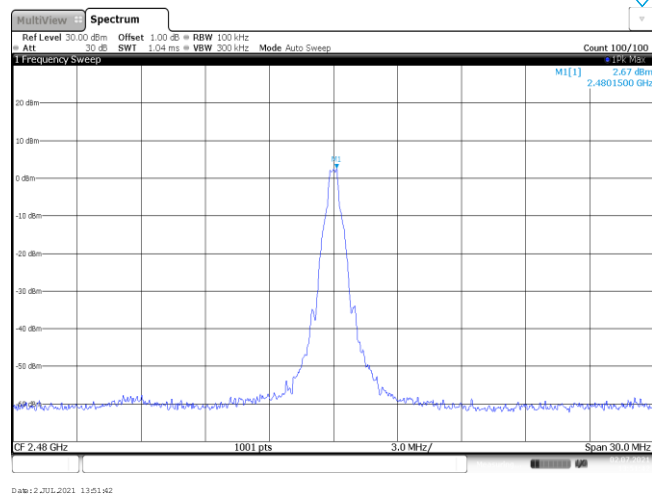
CH39  
30MHz~1000MHz



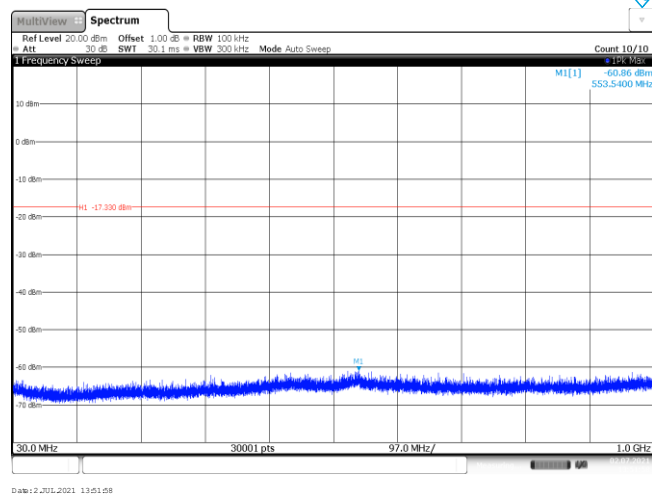
CH39  
1GHz~26GHz



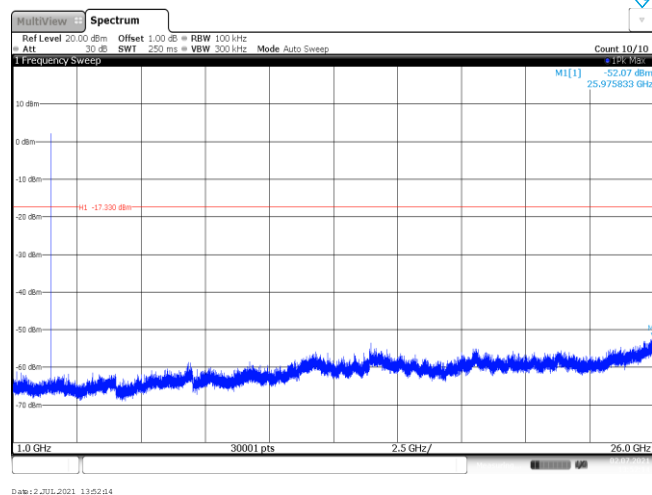
CH78  
Reference level

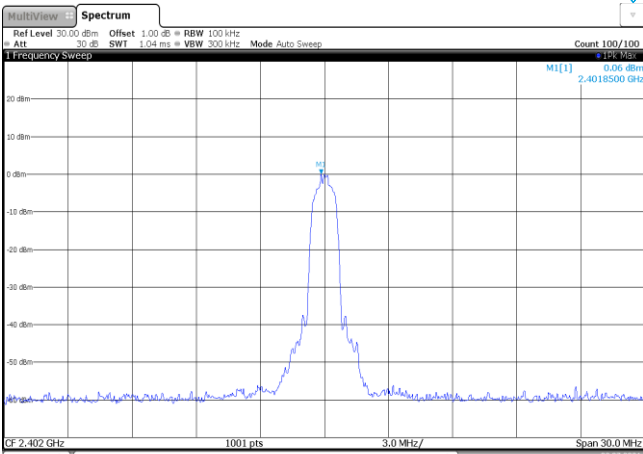
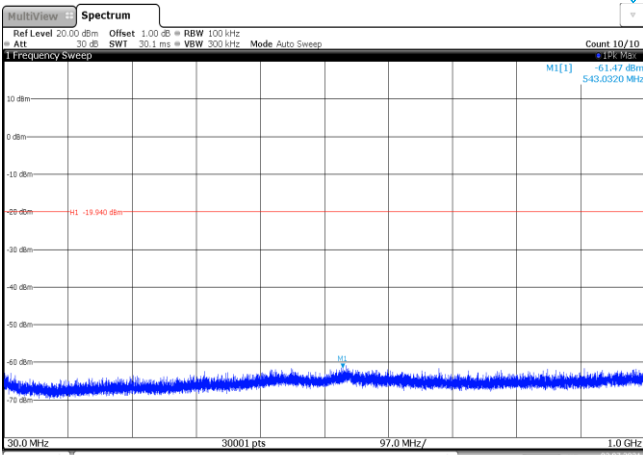
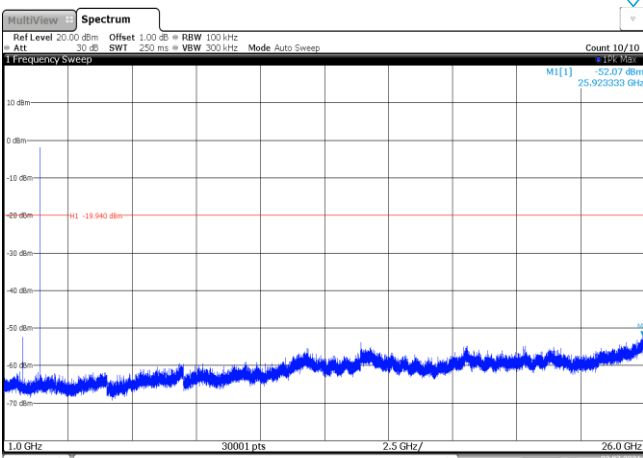


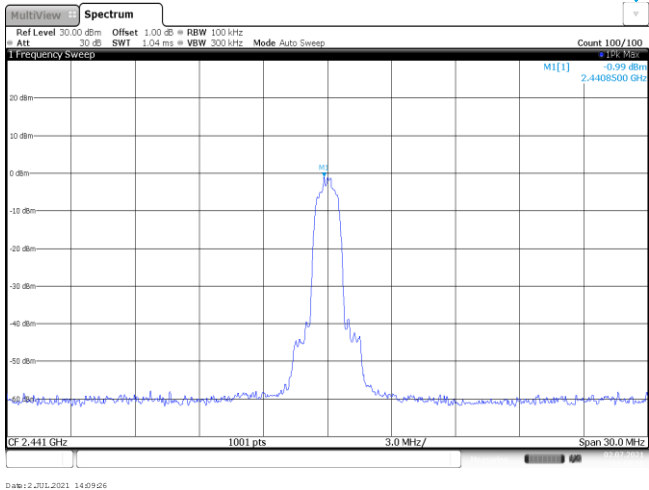
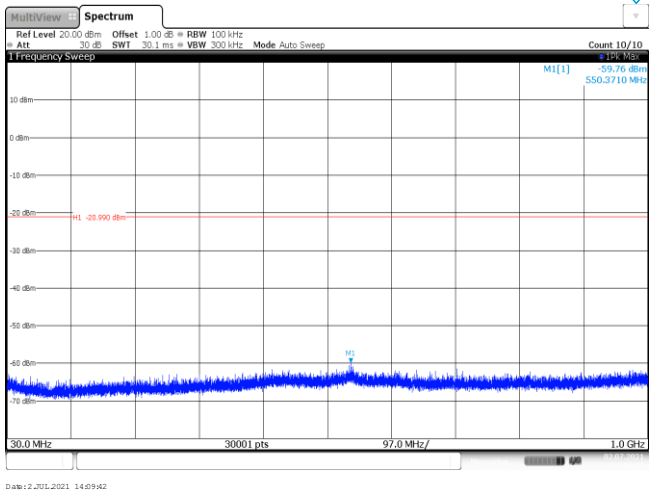
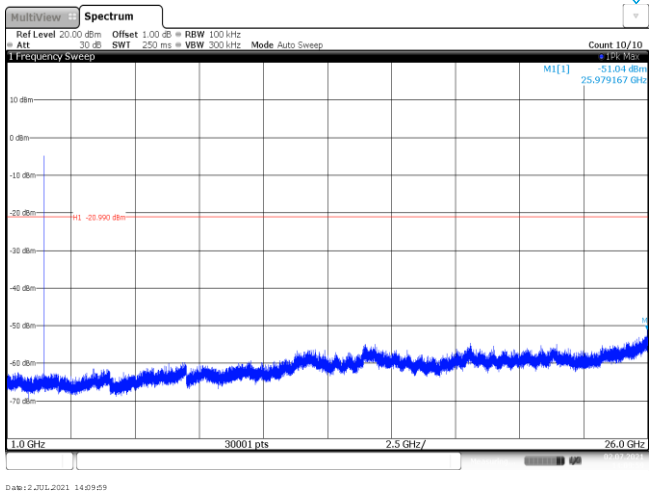
CH78  
30MHz~1000MHz



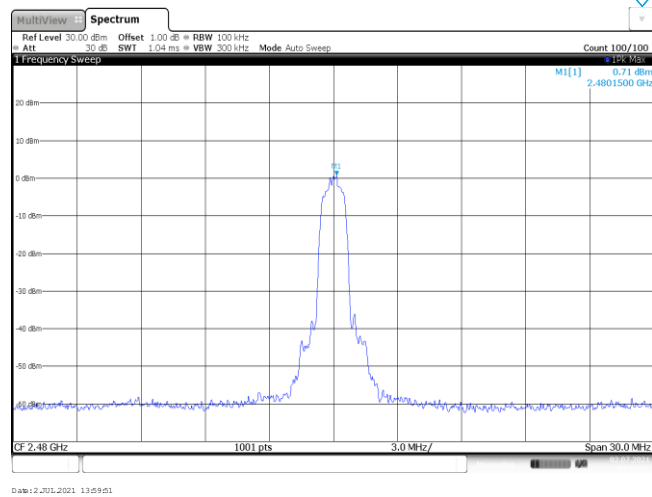
CH78  
1GHz~26GHz



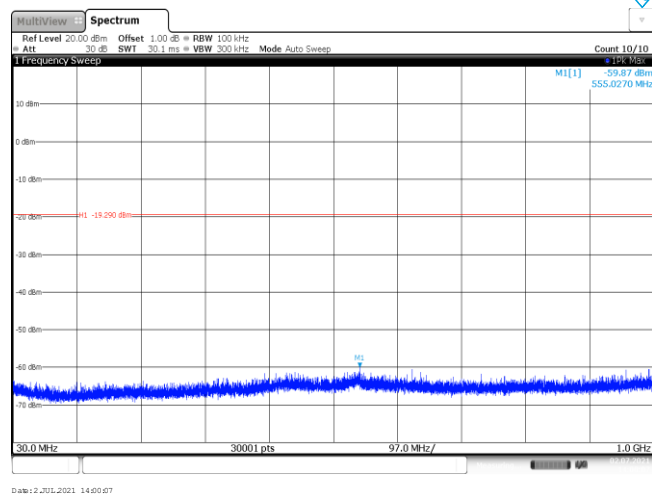
| Test Item:              | Spurious Emission                                                                                                                                                                                                                                                                                                                                                                                                                                               | Modulation type: | $\pi/4$ DQPSK |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| CH00<br>Reference level | <div><p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] 0.06 dBm<br/>2.4018500 GHz<br/>20 dBm<br/>0 dBm<br/>-10 dBm<br/>-20 dBm<br/>-30 dBm<br/>-40 dBm<br/>-50 dBm<br/>-60 dBm<br/>-70 dBm<br/>-80 dBm<br/>2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date: 2 JUL 2021 14:03:05</p></div> |                  |               |
| CH00<br>30MHz~1000MHz   | <div><p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -61.47 dBm<br/>543.6520 MHz<br/>10 dBm<br/>0 dBm<br/>-10 dBm<br/>-20 dBm<br/>-30 dBm<br/>-40 dBm<br/>-50 dBm<br/>-60 dBm<br/>-70 dBm<br/>-80 dBm<br/>30.0 MHz 30001 pts 97.0 MHz/ Span 1.0 GHz<br/>Date: 2 JUL 2021 14:03:01</p></div> |                  |               |
| CH00<br>1GHz~26GHz      | <div><p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -32.07 dBm<br/>25.923333 GHz<br/>10 dBm<br/>0 dBm<br/>-10 dBm<br/>-20 dBm<br/>-30 dBm<br/>-40 dBm<br/>-50 dBm<br/>-60 dBm<br/>-70 dBm<br/>-80 dBm<br/>1.0 GHz 30001 pts 2.5 GHz/ Span 26.0 GHz<br/>Date: 2 JUL 2021 14:04:07</p></div> |                  |               |

|                                            |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>CH39</div> <div>Reference level</div> |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] -3.99 dBm 2.4408500 GHz<br/>CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date: 2 JUL 2021 14:09:26</p> |
| <div>CH39</div> <div>30MHz~1000MHz</div>   |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -59.76 dBm 550.3710 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 2 JUL 2021 14:09:42</p>          |
| <div>CH39</div> <div>1GHz~26GHz</div>      |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -51.04 dBm 25.979167 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 2 JUL 2021 14:09:59</p>          |

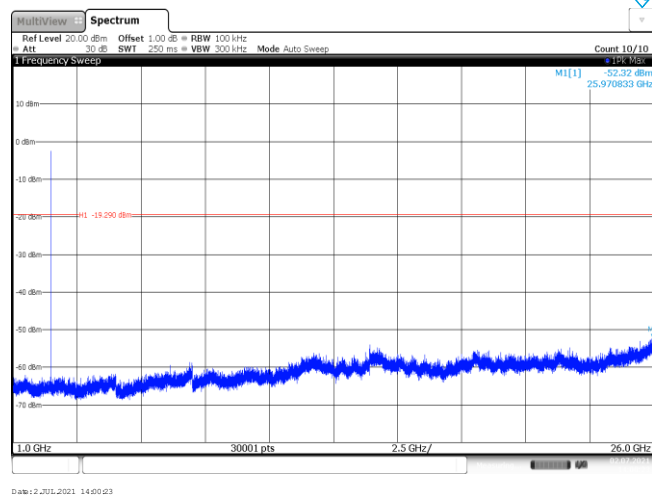
CH78  
Reference level

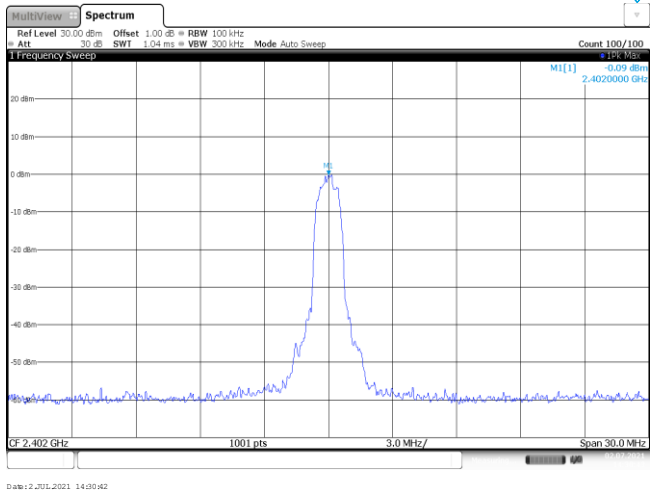
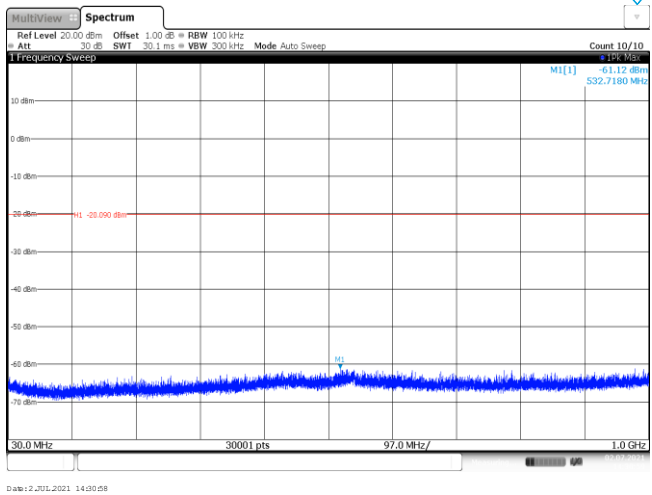
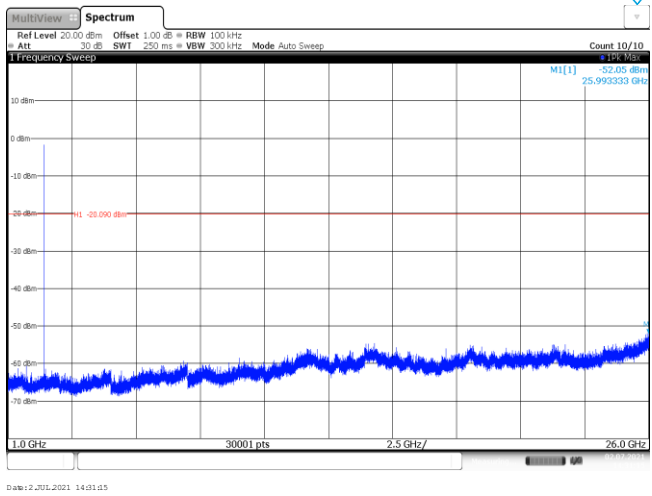


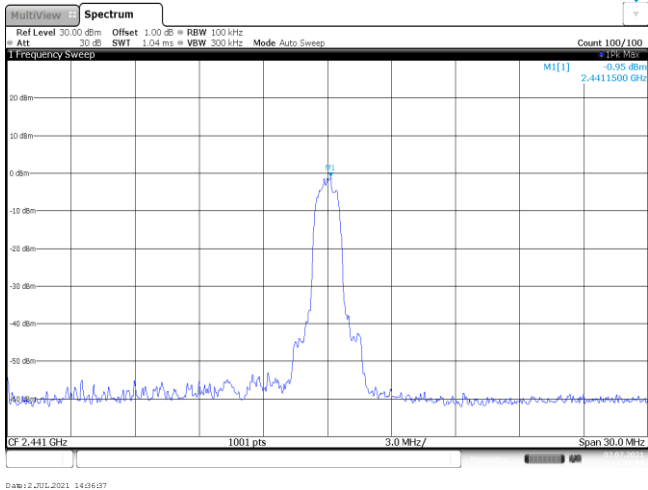
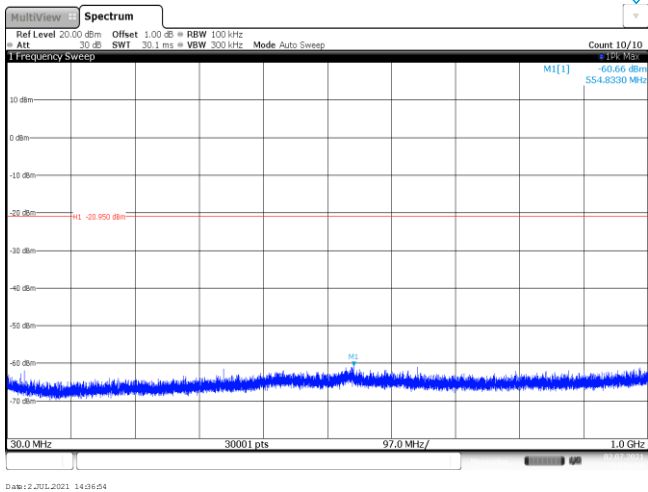
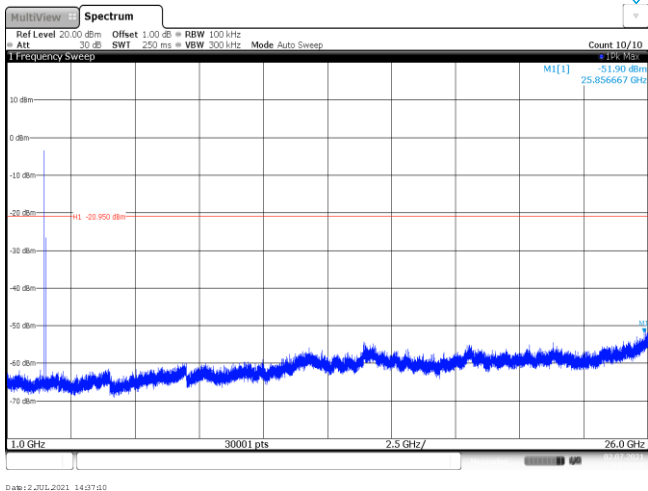
CH78  
30MHz~1000MHz



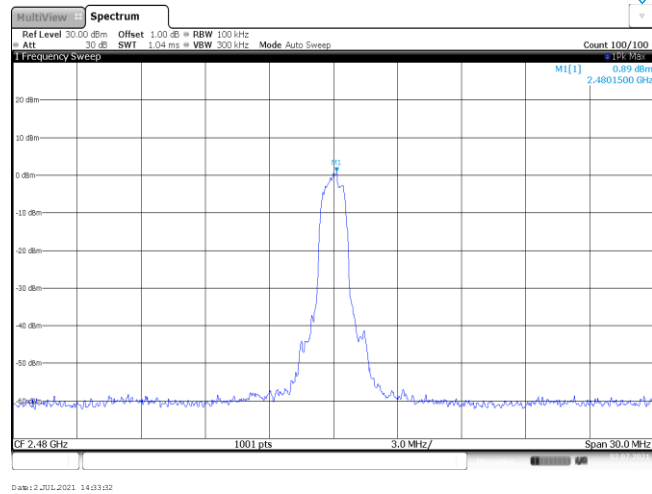
CH78  
1GHz~26GHz



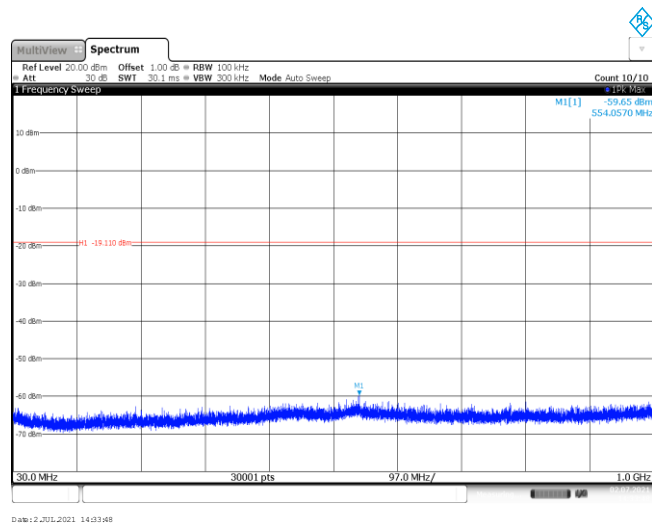
| Test Item:              | Spurious Emission                                                                                                  | Modulation type: | 8DPSK |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|------------------|-------|
| CH00<br>Reference level |  <p>CH00<br/>Reference level</p> |                  |       |
| CH00<br>30MHz~1000MHz   |  <p>CH00<br/>30MHz~1000MHz</p>  |                  |       |
| CH00<br>1GHz~26GHz      |  <p>CH00<br/>1GHz~26GHz</p>    |                  |       |

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| <p>CH39<br/>Reference level</p> |    |
| <p>CH39<br/>30MHz~1000MHz</p>   |   |
| <p>CH39<br/>1GHz~26GHz</p>      |  |

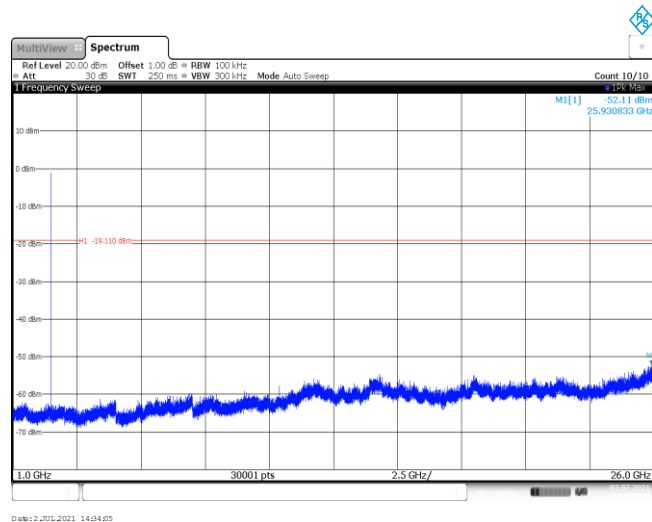
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



-----End of Report-----