

APPENDIX REPORT

| | | | |
|-----------------|-----------------|---------------------|----------------------|
| Project No. | SHT2008051701EW | Radio Specification | Bluetooth EDR |
| Test sample No. | YPHT20080517004 | Model No. | CN6Q15 |
| Start test date | 2020/8/24 | Finish date | 2020/8/24 |
| Temperature | 25°C | Humidity | 50% |
| Test Engineer | Jiongsheng.Feng | Auditor | <i>Xiaodong Zheo</i> |

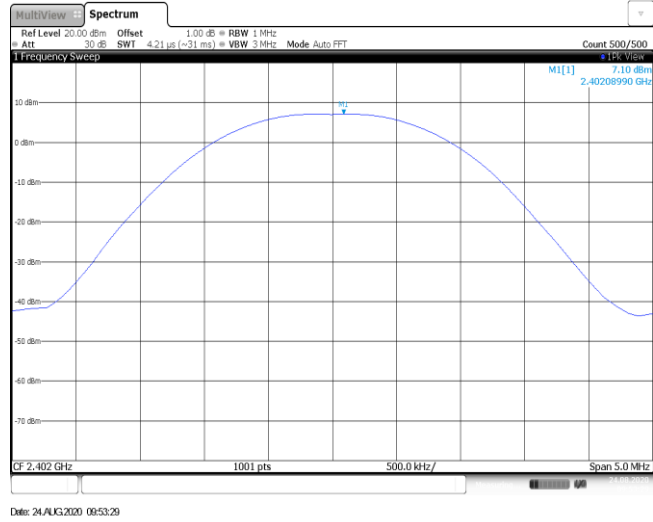
| Appendix clause | Test item | Result |
|-----------------|--|--------|
| A | Peak Output Power | PASS |
| B | 20 dB Bandwidth | PASS |
| C | 99% Occupied Bandwidth | PASS |
| D | Carrier Frequencies Separation | PASS |
| E | Hopping Channel Number | PASS |
| F | Dwell Time | PASS |
| G | Duty Cycle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

Appendix A: Peak Output Power

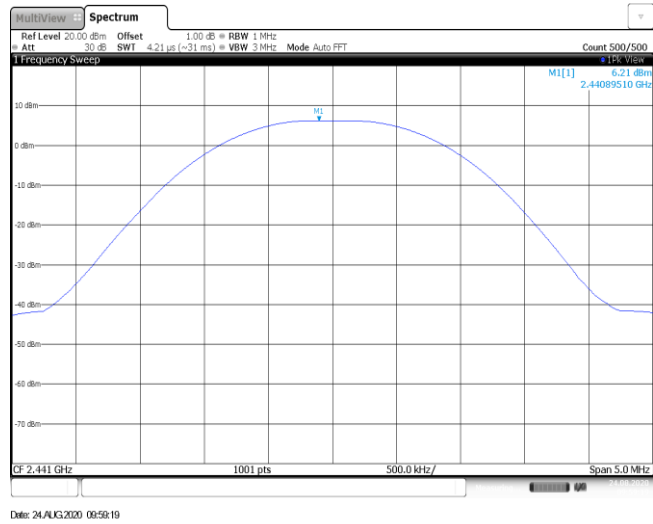
| Modulation type | Channel | Output power (dBm) | Average Output power (dBm) | Limit (dBm) | Result |
|-----------------|---------|--------------------|----------------------------|-------------|--------|
| GFSK | 00 | 7.10 | 7.08 | ≤ 30.00 | Pass |
| | 39 | 6.21 | 6.20 | | |
| | 78 | 5.08 | 5.07 | | |
| π/4DQPSK | 00 | 7.30 | 6.75 | ≤ 21.00 | Pass |
| | 39 | 6.31 | 5.80 | | |
| | 78 | 5.28 | 4.73 | | |
| 8DPSK | 00 | 7.81 | 7.11 | ≤ 21.00 | Pass |
| | 39 | 6.91 | 6.06 | | |
| | 78 | 5.89 | 5.12 | | |

Modulation Type: GFSK

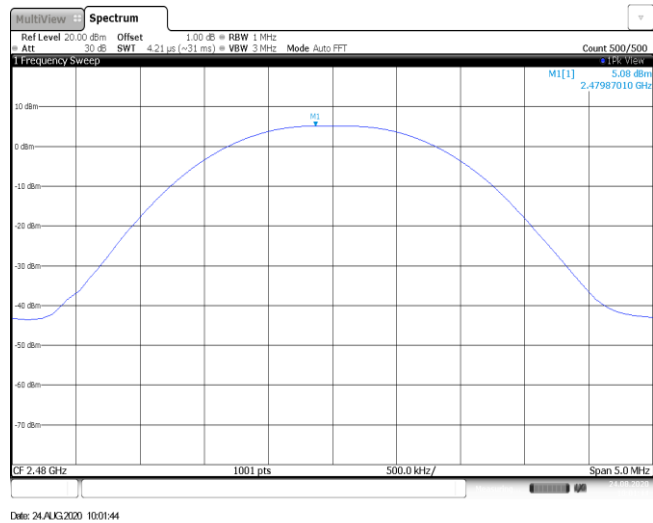
CH00



CH39



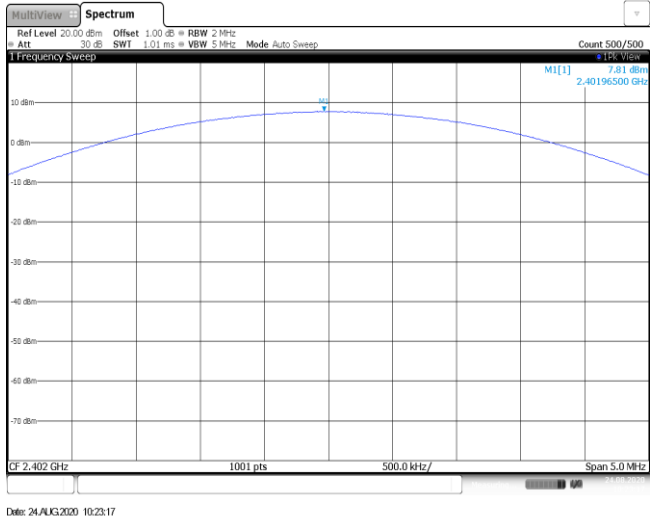
CH78



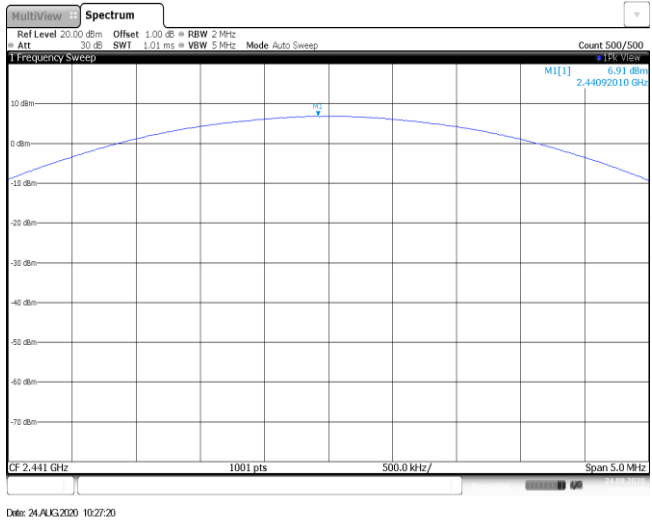
| Modulation Type: $\pi/4$ DQPSK | |
|--------------------------------|---|
| CH00 | <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 7.30 dBm 2.40185510 GHz CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 24/AUG/2020 10:08:02</p> |
| CH39 | <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 6.31 dBm 2.44092010 GHz CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 24/AUG/2020 10:17:48</p> |
| CH78 | <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.28 dBm 2.47986010 GHz CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 24/AUG/2020 10:20:23</p> |

Modulation Type: 8DPSK

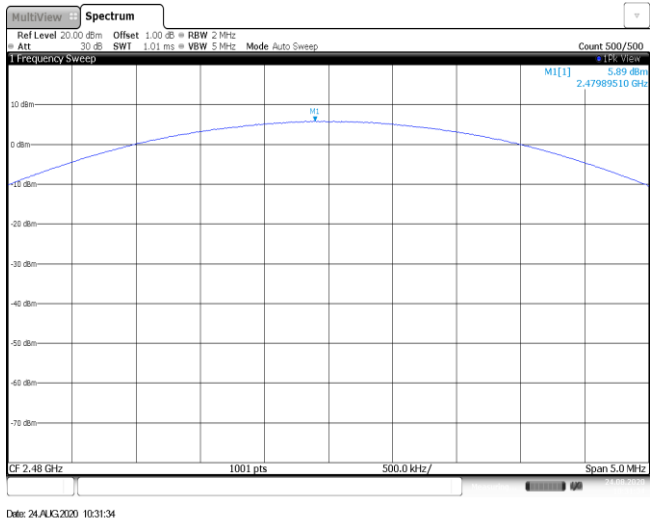
CH00



CH39



CH78

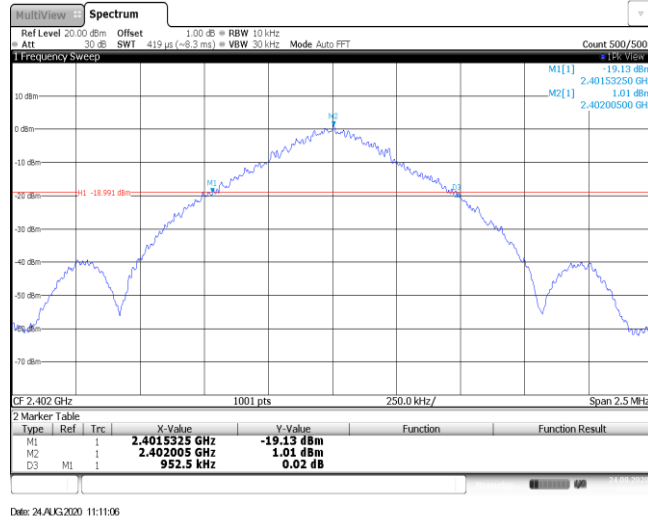


Appendix B : 20 dB Bandwidth

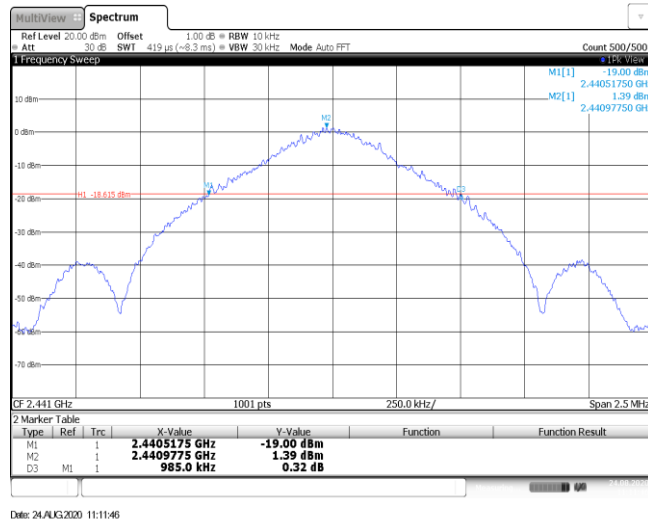
| Modulation type | Channel | 20 dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------|-----------------------|-------------|--------|
| GFSK | 00 | 952.50 | - | Pass |
| | 39 | 985.00 | | |
| | 78 | 990.00 | | |
| $\pi/4$ DQPSK | 00 | 1362.50 | - | Pass |
| | 39 | 1362.50 | | |
| | 78 | 1365.00 | | |
| 8DPSK | 00 | 1360.00 | - | Pass |
| | 39 | 1355.00 | | |
| | 78 | 1355.00 | | |

Modulation Type: GFSK

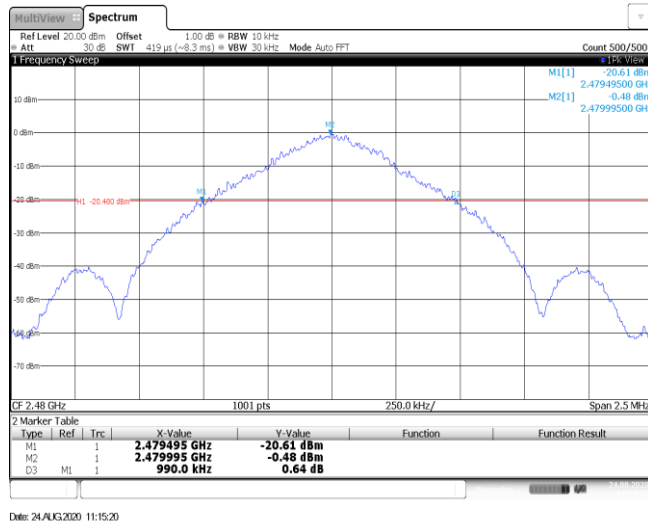
CH00



CH39

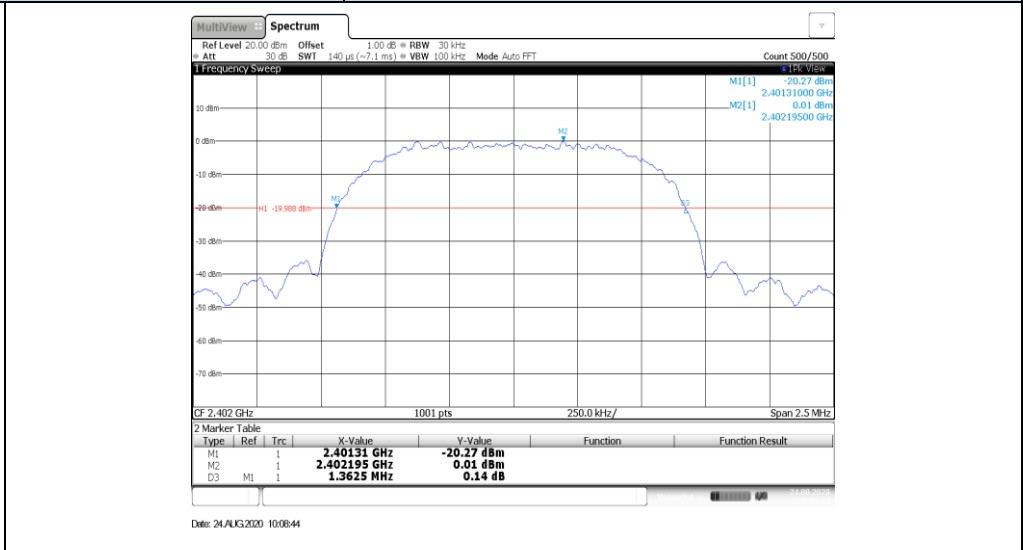


CH78

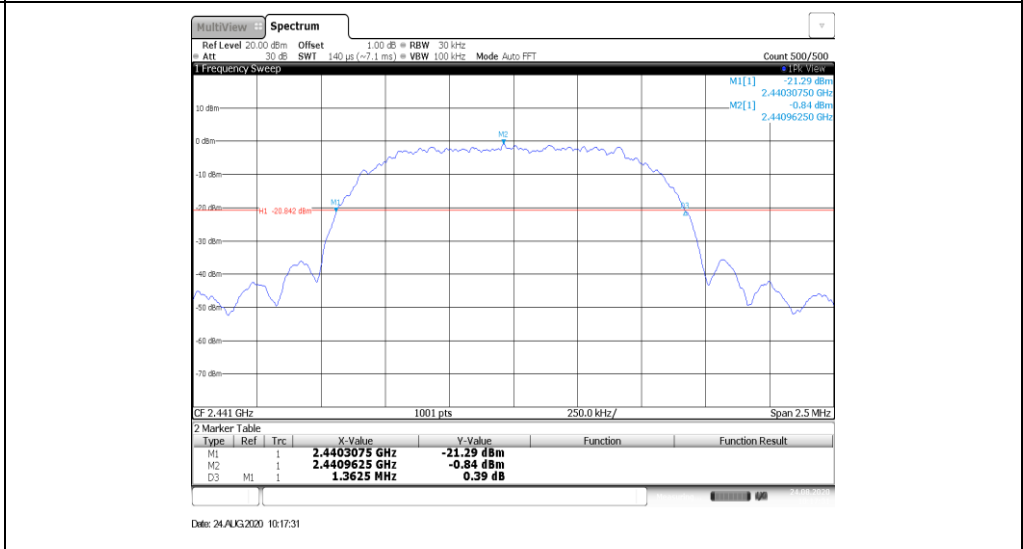


Modulation Type: **$\pi/4$ DQPSK**

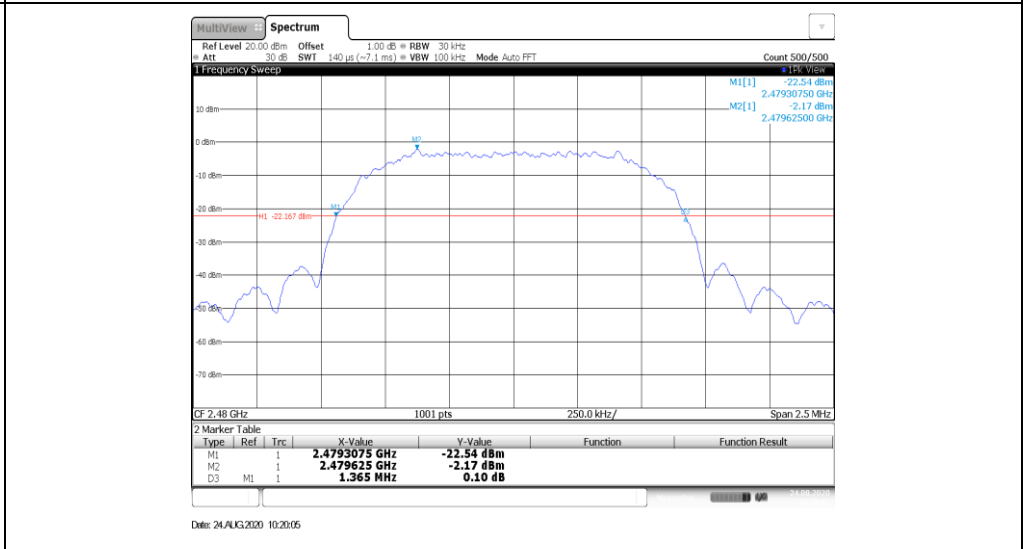
CH00



CH39

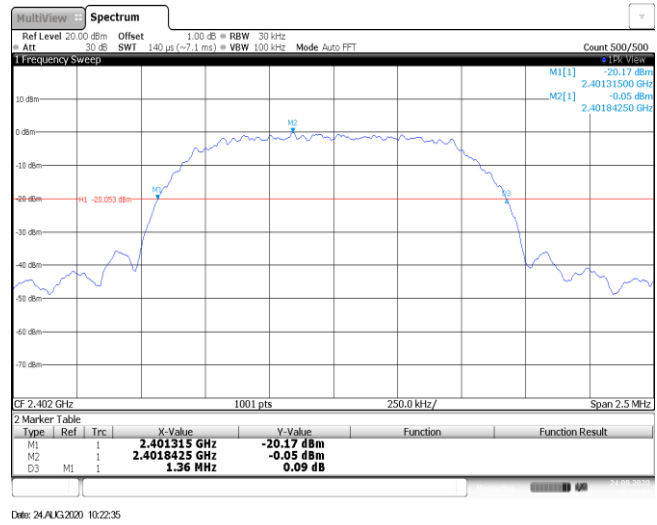


CH78

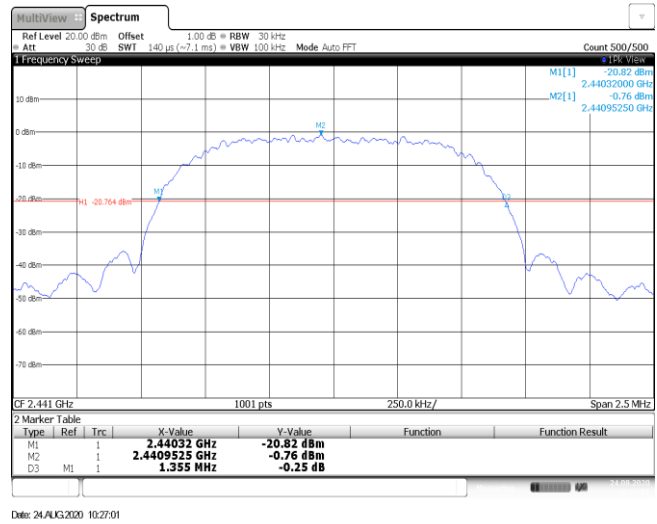


Modulation Type: 8DPSK

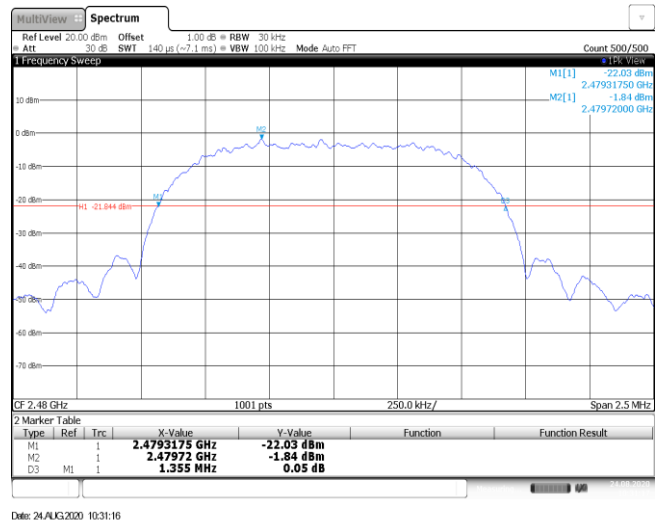
CH00



CH39



CH78

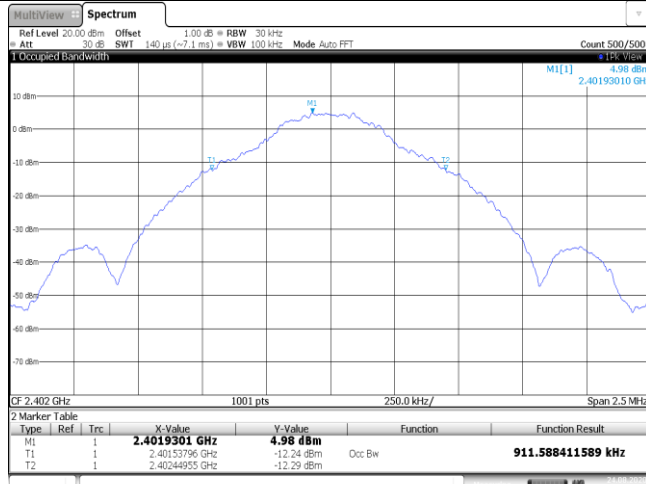


Appendix C: 99% Occupied Bandwidth

| Modulation type | Channel | 99% Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------------------------------|-------------|--------|
| GFSK | 00 | 0.91 | - | Pass |
| | 39 | 0.92 | | |
| | 78 | 0.91 | | |
| $\pi/4$ DQPSK | 00 | 1.20 | - | Pass |
| | 39 | 1.19 | | |
| | 78 | 1.19 | | |
| 8DPSK | 00 | 1.19 | - | Pass |
| | 39 | 1.19 | | |
| | 78 | 1.19 | | |

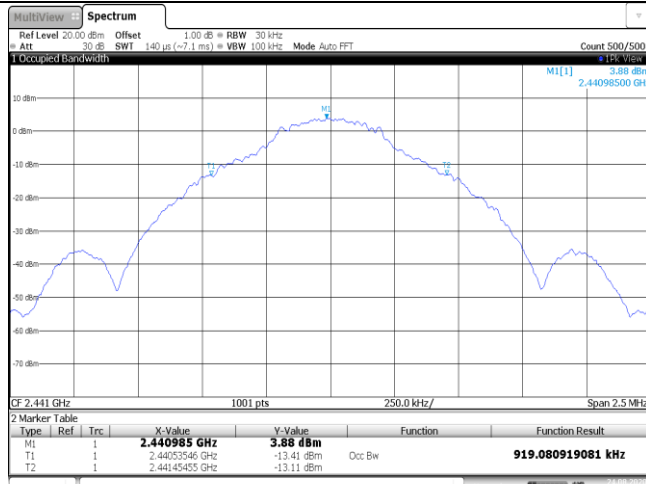
Modulation Type: GFSK

CH00



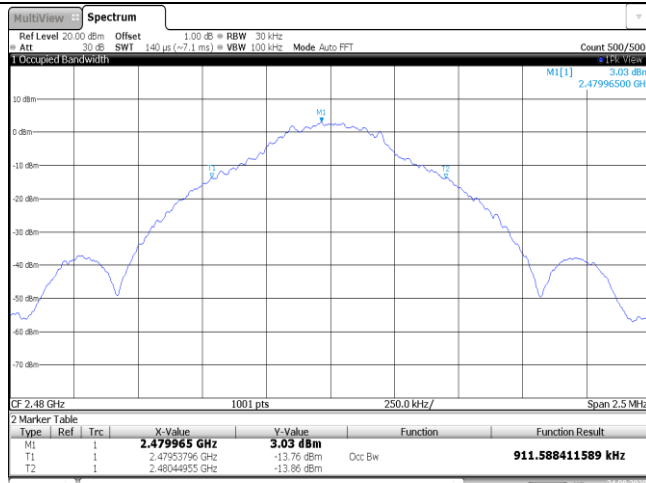
Date: 24/AUG/2020 09:53:20

CH39



Date: 24/AUG/2020 09:58:15

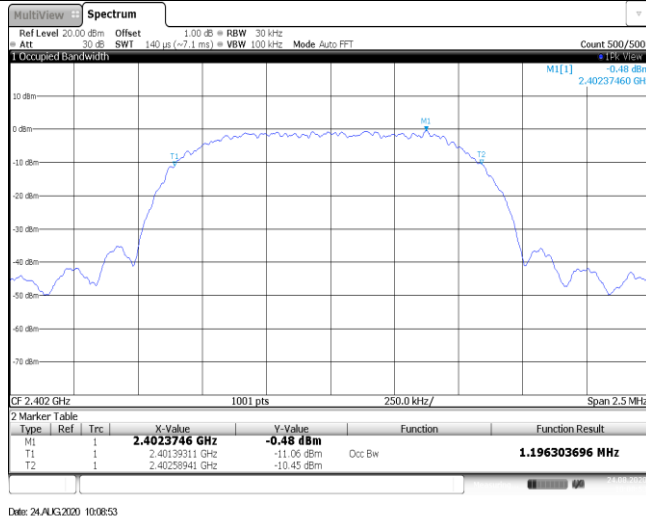
CH78



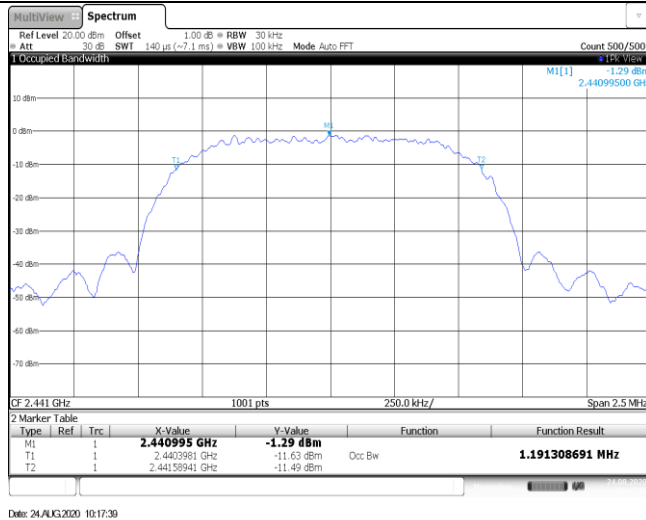
Date: 24/AUG/2020 10:01:31

Modulation Type: $\pi/4$ QPSK

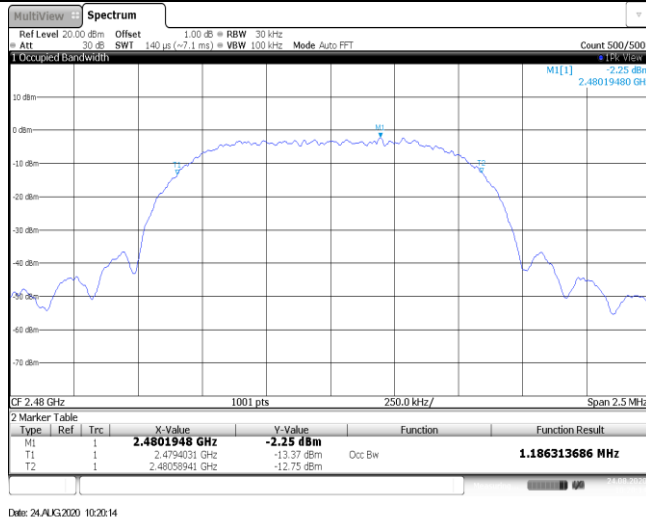
CH00



CH39

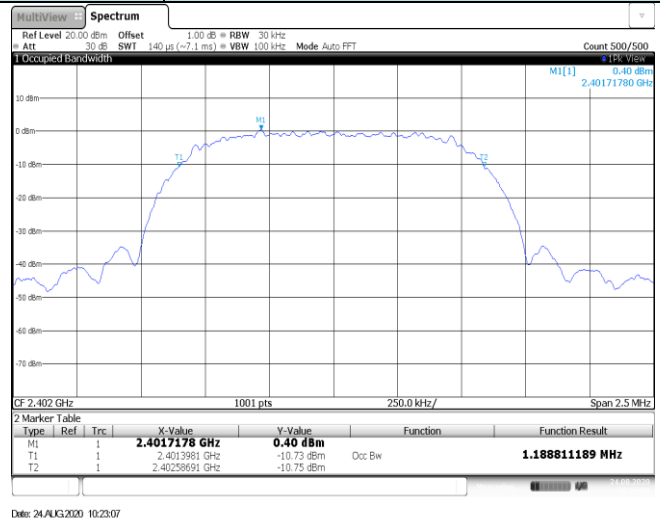


CH78

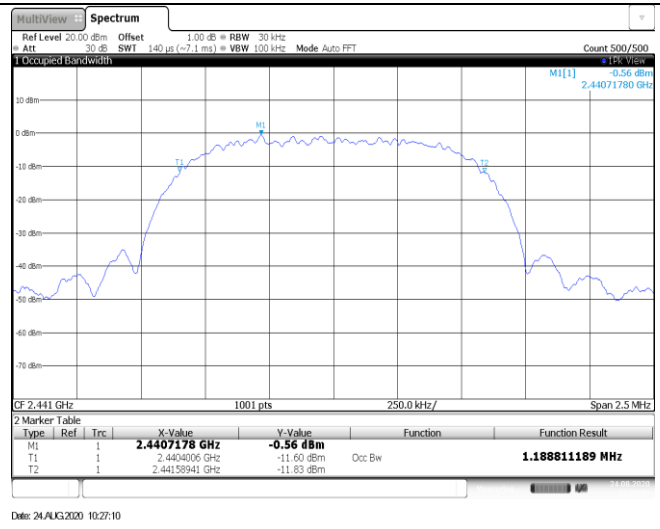


Modulation Type: 8DPSK

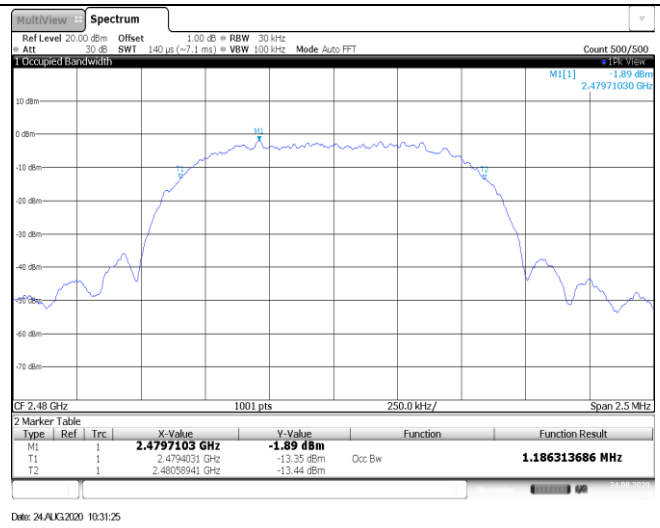
CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

| Modulation type | Channel | Carrier Frequencies Separation (MHz) | Limit (kHz) * | Result |
|-----------------|---------|--------------------------------------|---------------|--------|
| GFSK | 39 | 1.07 | ≥990.00 | Pass |
| π/4DQPSK | 39 | 1.00 | ≥910.00 | Pass |
| 8DPSK | 39 | 1.00 | ≥906.67 | Pass |

Note:

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

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

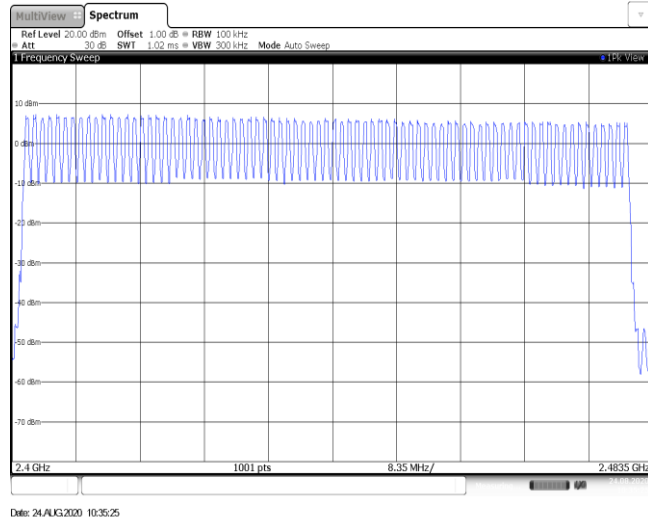
8DPSK limit = 2/3 * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

| | |
|--|--|
| <p style="text-align: center;">GFSK</p> | <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (~7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] 2.44095100 GHz 2.47 dBm D1[1] 2.44095100 GHz -0.28 dBm 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 24/AUG/2020 09:55:48</p> |
| <p style="text-align: center;">$\pi/4$DQPSK</p> | <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (~7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] 2.44095100 GHz 1.99 dBm D1[1] 2.44095100 GHz -0.05 dBm 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 24/AUG/2020 10:14:48</p> |
| <p style="text-align: center;">8DPSK</p> | <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (~7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] 2.44095100 GHz 2.04 dBm D1[1] 2.44095100 GHz -0.04 dBm 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 24/AUG/2020 10:25:49</p> |

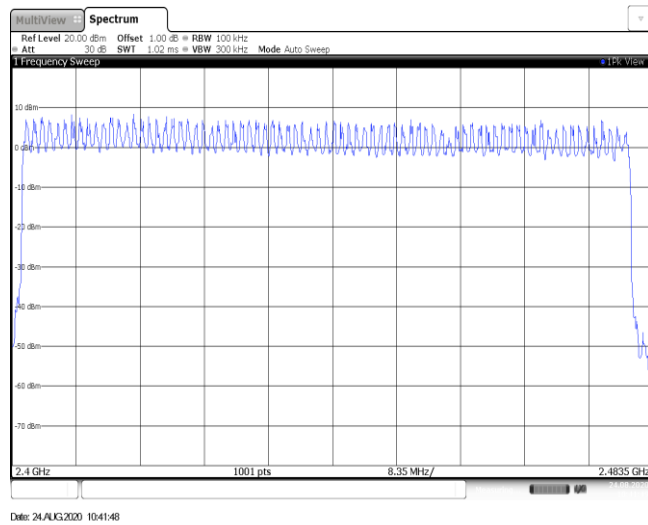
Appendix E: Hopping Channel Number

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

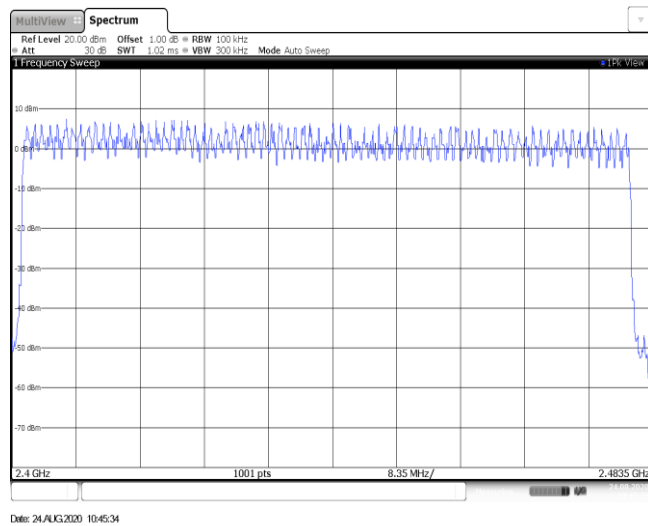
GFSK



$\pi/4$ DQPSK



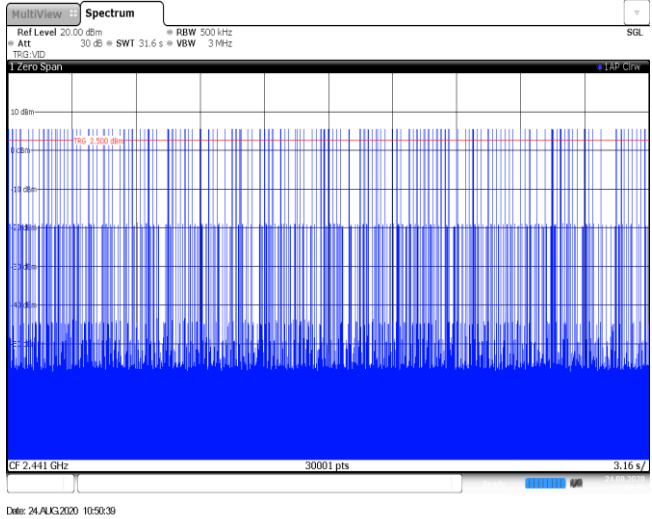
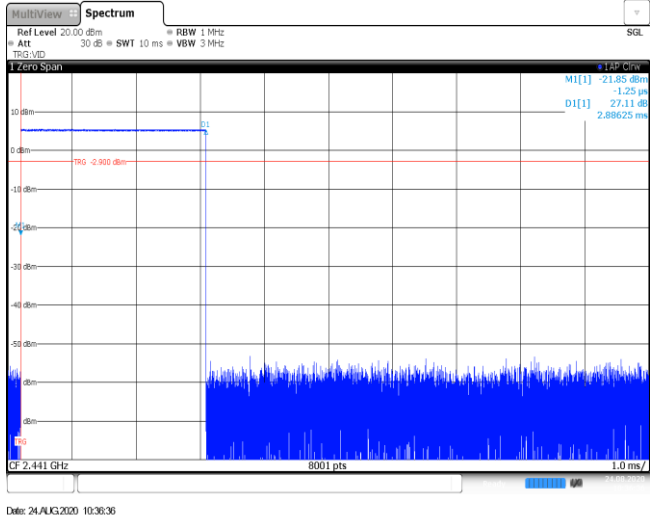
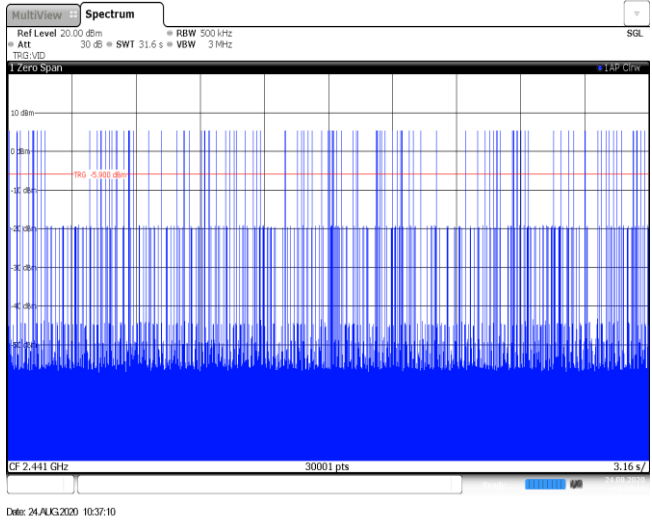
8DPSK



Appendix F: Dwell Time

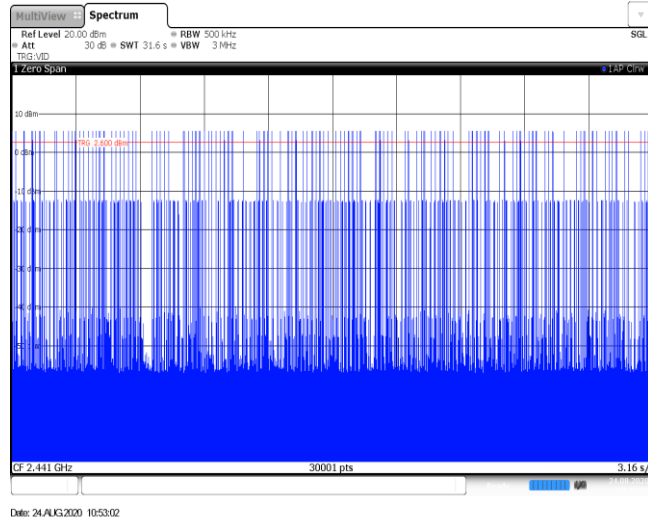
| Modulation type | Packet | Burst Width [ms] | Total Hops[hop*ch] | Dwell time (Second) | Limit (Second) | Result |
|-----------------|--------|------------------|--------------------|---------------------|----------------|--------|
| GFSK | DH1 | 0.38 | 314 | 0.12 | ≤ 0.40 | Pass |
| | DH3 | 1.64 | 171 | 0.28 | | |
| | DH5 | 2.89 | 101 | 0.29 | | |
| π/4DQPSK | 2DH1 | 0.39 | 320 | 0.13 | ≤ 0.40 | Pass |
| | 2DH3 | 1.64 | 156 | 0.26 | | |
| | 2DH5 | 2.89 | 104 | 0.30 | | |
| 8DPSK | 3DH1 | 0.39 | 318 | 0.12 | ≤ 0.40 | Pass |
| | 3DH3 | 1.64 | 164 | 0.27 | | |
| | 3DH5 | 2.89 | 100 | 0.29 | | |

| Modulation Type: GFSK | |
|-----------------------|---|
| DH1 Burst width | <p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>M[1] 4.73 dBm D1[1] 0.90 dB 381.25 ps</p> <p>TRG 2.700 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 24/AUG/2020 10:49:03</p> |
| DH1 Burst number | <p>Ref Level 20.00 dBm RBW 500 kHz Att 30 dB SWT 31.6 s VBW 3 MHz</p> <p>TRG 2.700 dBm</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 24/AUG/2020 10:49:37</p> |
| DH3 Burst width | <p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>M[1] 1.70 dBm D1[1] 3.70 dB 1.63750 ms</p> <p>TRG 2.500 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 24/AUG/2020 10:50:05</p> |

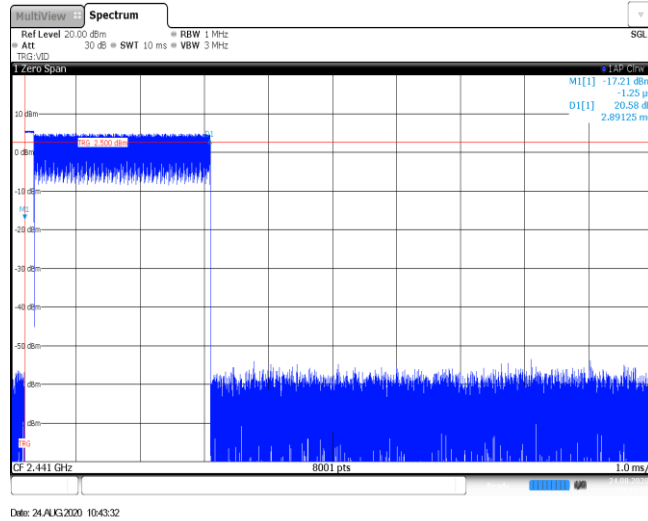
| | |
|-----------------------------|--|
| <p>DH3 Burst number</p> |  <p>The spectrum plot shows a dense signal with a red trigger line at -2.300 dBm. The y-axis ranges from -60 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 30001 points. The plot title is 'Spectrum' and it includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SWT 31.6 s, VBW 3 MHz. The date is 24/AUG/2020 10:50:39.</p> |
| <p>DH5 Burst width</p> |  <p>The spectrum plot shows a signal burst with a red trigger line at -2.300 dBm. The y-axis ranges from -60 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 8001 points. The plot title is 'Spectrum' and it includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SWT 10 ms, VBW 3 MHz. The date is 24/AUG/2020 10:38:36. A table in the top right corner shows: M1[1] -21.85 dBm, -1.25 μs, 27.11 dB, 2.88625 ms; D1[1] 27.11 dB, 2.88625 ms.</p> |
| <p>DH5 Burst number</p> |  <p>The spectrum plot shows a dense signal with a red trigger line at -5.100 dBm. The y-axis ranges from -60 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 30001 points. The plot title is 'Spectrum' and it includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SWT 31.6 s, VBW 3 MHz. The date is 24/AUG/2020 10:37:10.</p> |

| Modulation Type: $\pi/4$ DQPSK | |
|--------------------------------|-----------------------------------|
| 2DH1 Burst width | <p>Date: 24/AUG/2020 10:51:27</p> |
| 2DH1 Burst number | <p>Date: 24/AUG/2020 10:52:01</p> |
| 2DH3 Burst width | <p>Date: 24/AUG/2020 10:52:28</p> |

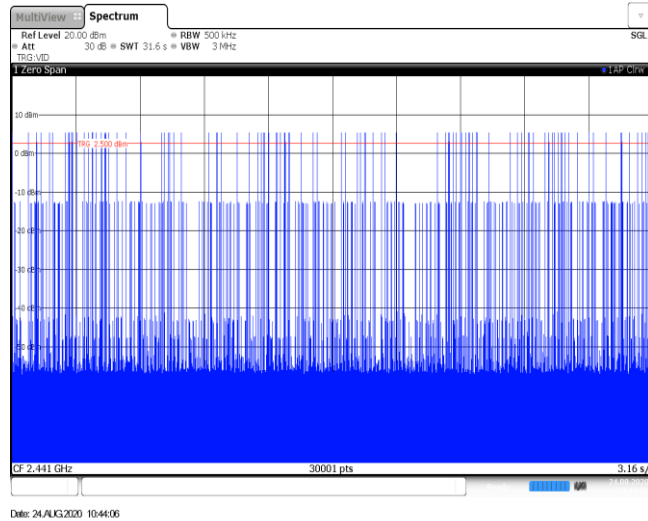
2DH3
Burst number

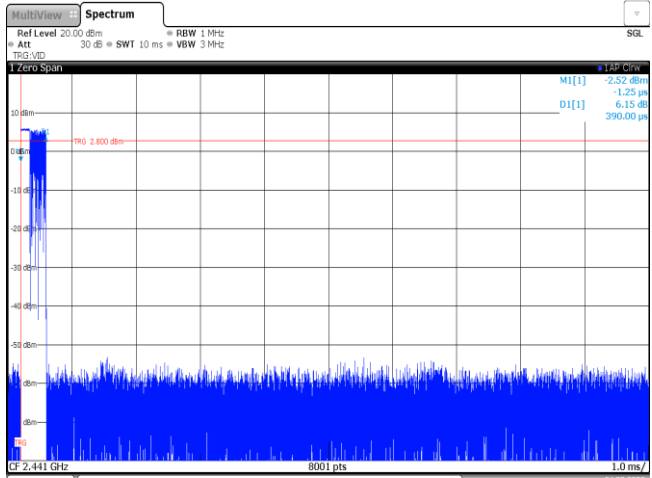
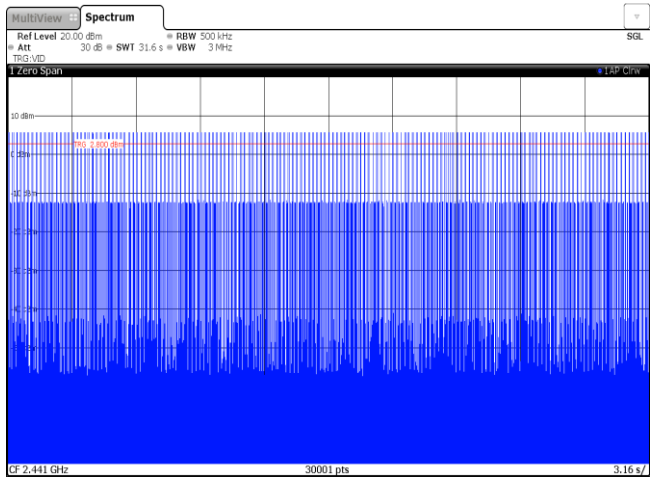
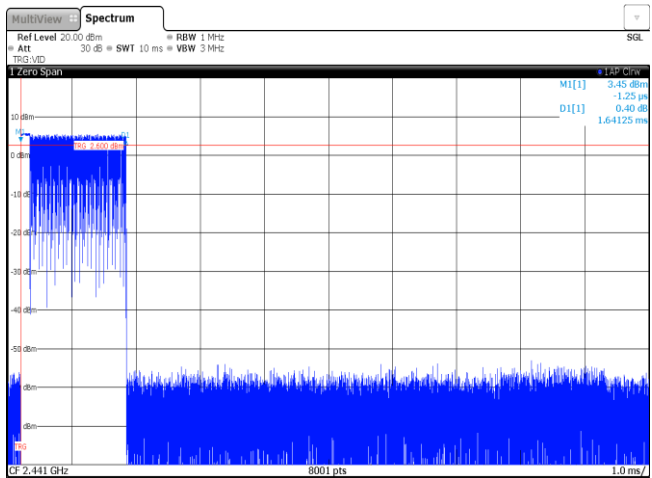


2DH5
Burst width

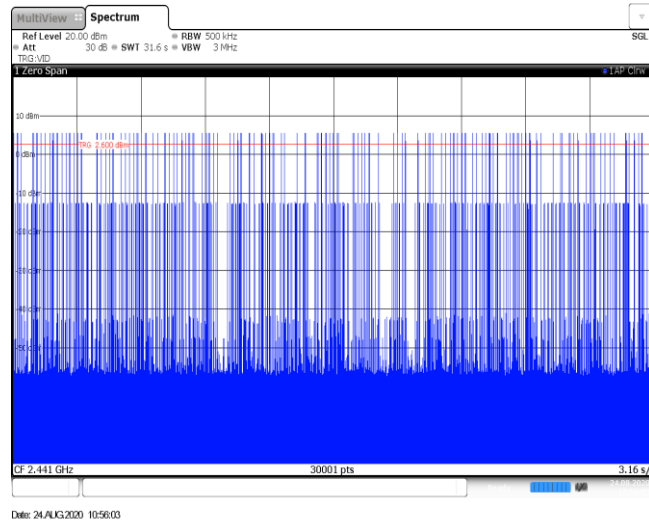


2DH5
Burst number

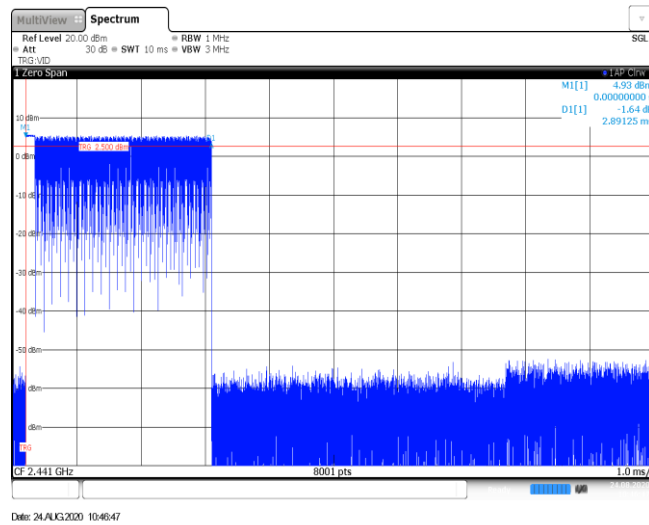


| Modulation Type: | 8DPSK |
|------------------------------|--|
| <p>3DH1 Burst width</p> |  <p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] 2.52 dBm D[1] -1.25 μs 6.15 dB 390.00 μs</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 24/AUG/2020 10:54:09</p> |
| <p>3DH1 Burst number</p> |  <p>Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 24/AUG/2020 10:54:43</p> |
| <p>3DH3 Burst width</p> |  <p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] 3.45 dBm D[1] -1.25 μs 0.40 dB 1.64125 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 24/AUG/2020 10:55:29</p> |

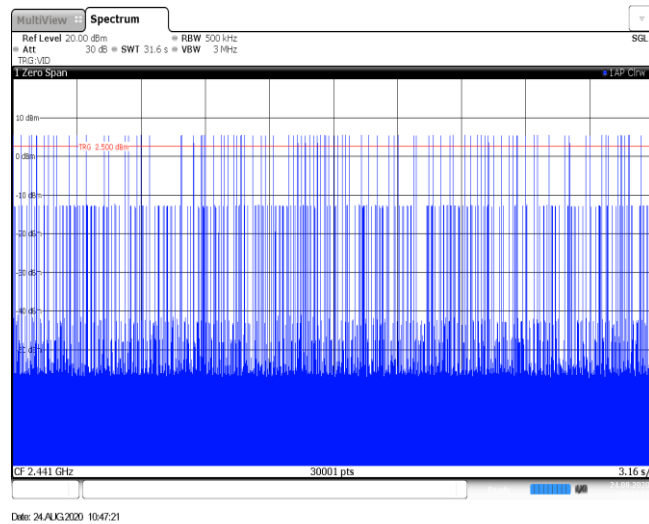
3DH3
Burst number



3DH5
Burst width



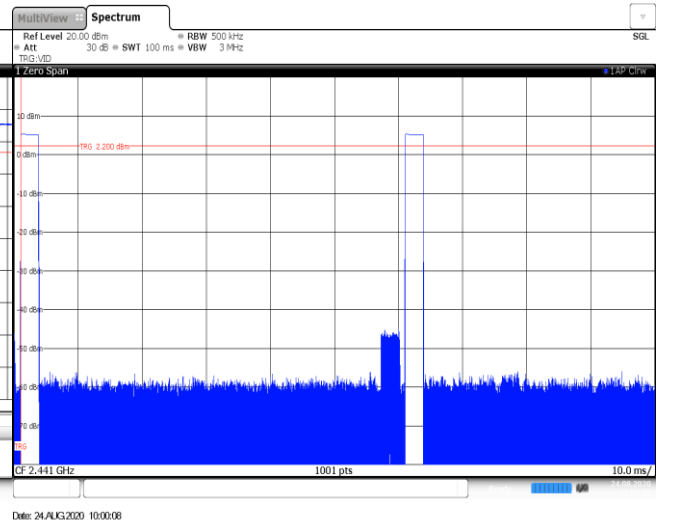
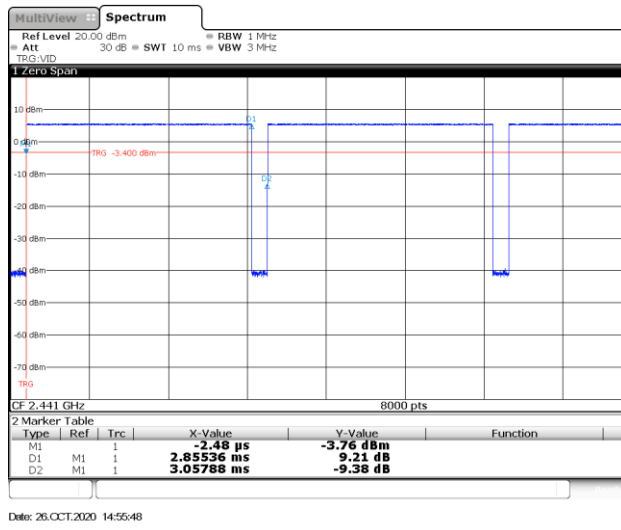
3DH5
Burst number



Appendix G: Duty Cycle Correction Factor (DCCF)

| DCCF Calculate Formula | | | | | |
|---|----------------------|--------------------------------------|-------------------|----------------|-----------|
| DCCF=20 * Log(duty cycle) = 20 * Log($T_{on\ time} / T_{period}$) | | | | | |
| Modulation type | Test Frequency (MHz) | $T_{on\ time}$ for single burst [ms] | T_{period} [ms] | Burst Quantity | DCCF [dB] |
| GFSK | 2441 | 2.86 | 100 | 2.00 | -30.87 |
| $\pi/4$ DQPSK | 2441 | 2.87 | 100 | 1.00 | -30.84 |
| 8DPSK | 2441 | 2.87 | 100 | 1.00 | -30.84 |

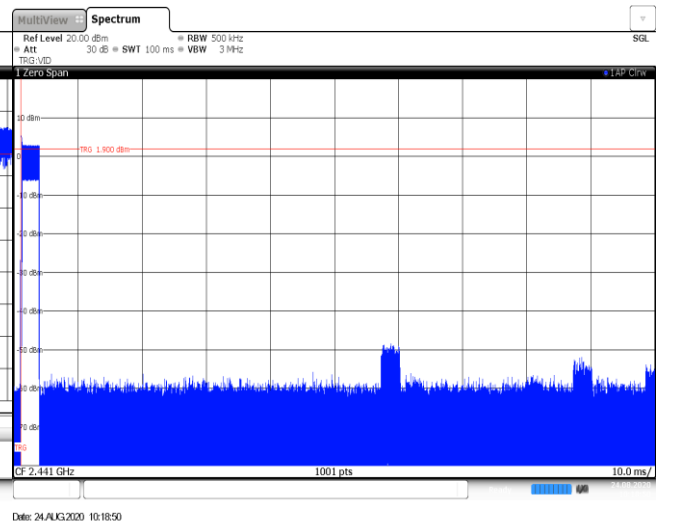
GFSK



T_{on} time for single burst

Burst Quantity

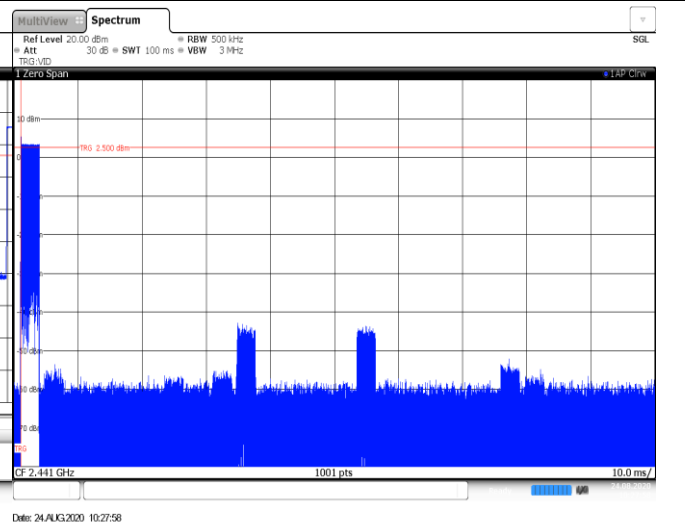
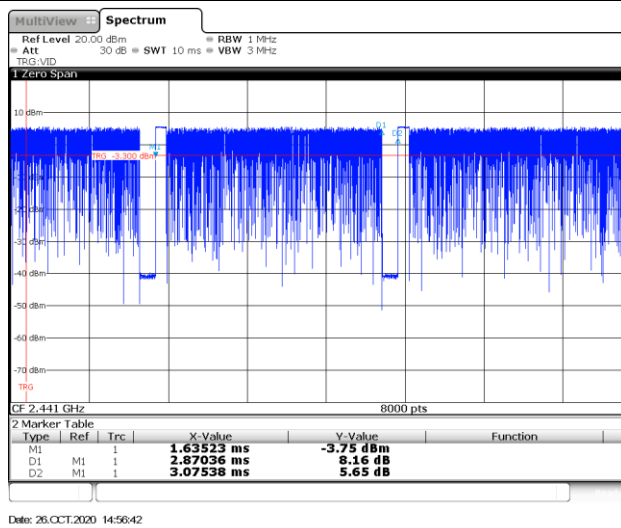
$\pi/4$ DQPSK



T_{on} time for single burst

Burst Quantity

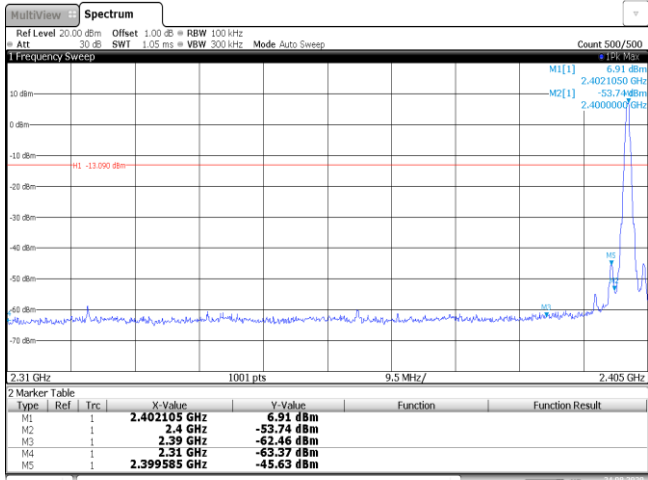
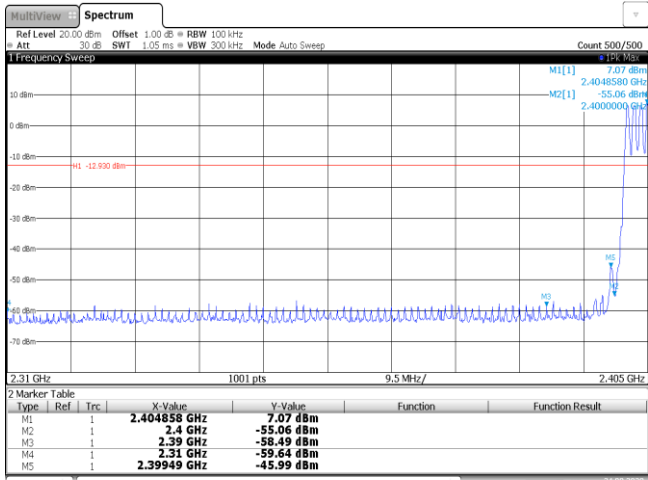
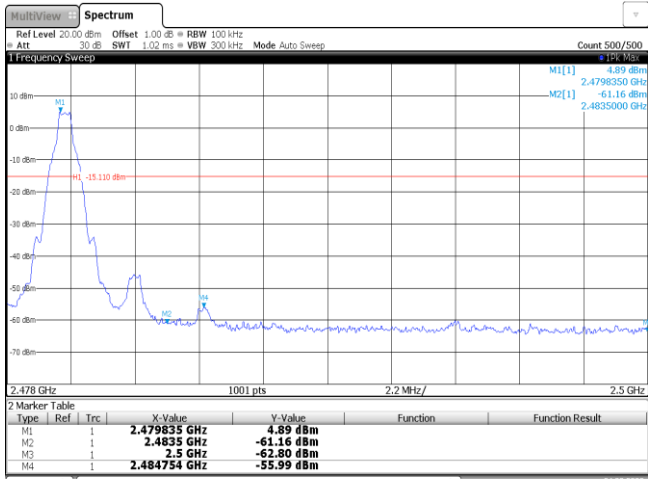
8DPSK



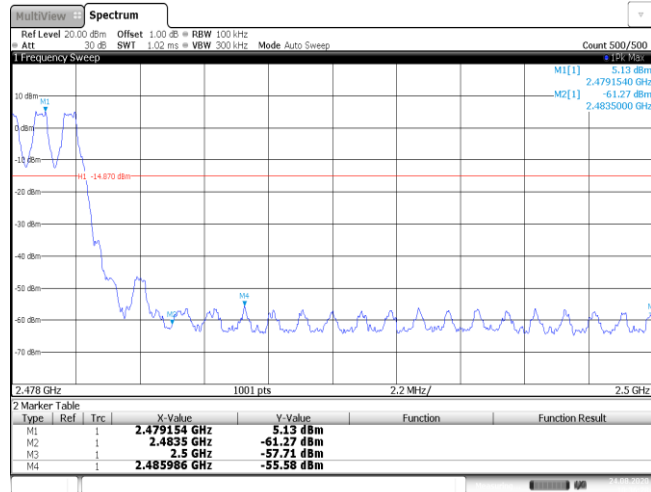
T_{on} time for single burst

Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

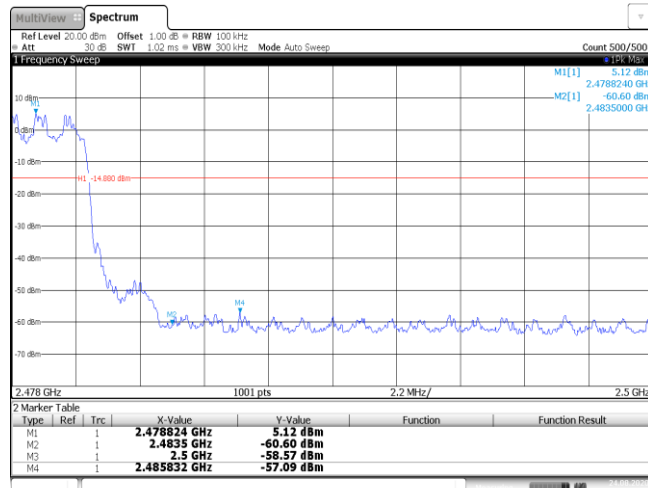
| Test Item: | Band edge | Modulation type: | GFSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|------------------|--------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| <p>CH00 No hopping mode</p> |  <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402105 GHz</td> <td>6.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399585 GHz</td> <td>-45.63 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24 JUL 2020 09:53:43</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.402105 GHz | 6.91 dBm | | | M2 | 1 | | 2.4 GHz | -53.74 dBm | | | M3 | 1 | | 2.39 GHz | -62.46 dBm | | | M4 | 1 | | 2.31 GHz | -63.37 dBm | | | M5 | 1 | | 2.399585 GHz | -45.63 dBm | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.402105 GHz | 6.91 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4 GHz | -53.74 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.39 GHz | -62.46 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.31 GHz | -63.37 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 1 | | 2.399585 GHz | -45.63 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CH00 Hopping mode</p> |  <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.404858 GHz</td> <td>7.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-55.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39949 GHz</td> <td>-45.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24 JUL 2020 10:36:02</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.404858 GHz | 7.07 dBm | | | M2 | 1 | | 2.4 GHz | -55.06 dBm | | | M3 | 1 | | 2.39 GHz | -58.49 dBm | | | M4 | 1 | | 2.31 GHz | -59.64 dBm | | | M5 | 1 | | 2.39949 GHz | -45.99 dBm | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.404858 GHz | 7.07 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4 GHz | -55.06 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.39 GHz | -58.49 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.31 GHz | -59.64 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 1 | | 2.39949 GHz | -45.99 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CH78 No hopping mode</p> |  <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.479835 GHz</td> <td>4.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-61.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484754 GHz</td> <td>-55.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24 JUL 2020 10:01:58</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.479835 GHz | 4.89 dBm | | | M2 | 1 | | 2.4835 GHz | -61.16 dBm | | | M3 | 1 | | 2.5 GHz | -62.80 dBm | | | M4 | 1 | | 2.484754 GHz | -55.99 dBm | | | | | | | | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.479835 GHz | 4.89 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4835 GHz | -61.16 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.5 GHz | -62.80 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.484754 GHz | -55.99 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CH78
Hopping mode



| Test Item: | Band edge | Modulation type: | $\pi/4$ DQPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|------------------|---------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| <p>CH00 No hopping mode</p> | <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401916 GHz</td> <td>3.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-47.46 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24/AUG/2020 10:09:37</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.401916 GHz | 3.54 dBm | | | M2 | 1 | | 2.4 GHz | -48.05 dBm | | | M3 | 1 | | 2.39 GHz | -62.79 dBm | | | M4 | 1 | | 2.31 GHz | -63.29 dBm | | | M5 | 1 | | 2.399965 GHz | -47.46 dBm | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.401916 GHz | 3.54 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4 GHz | -48.05 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.39 GHz | -62.79 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.31 GHz | -63.29 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 1 | | 2.399965 GHz | -47.46 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CH00 Hopping mode</p> | <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.404763 GHz</td> <td>7.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-49.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39968 GHz</td> <td>-47.37 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24/AUG/2020 10:42:30</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.404763 GHz | 7.17 dBm | | | M2 | 1 | | 2.4 GHz | -49.73 dBm | | | M3 | 1 | | 2.39 GHz | -58.85 dBm | | | M4 | 1 | | 2.31 GHz | -62.64 dBm | | | M5 | 1 | | 2.39968 GHz | -47.37 dBm | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.404763 GHz | 7.17 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4 GHz | -49.73 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.39 GHz | -58.85 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.31 GHz | -62.64 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 1 | | 2.39968 GHz | -47.37 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CH78 No hopping mode</p> | <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.480099 GHz</td> <td>1.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-61.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-63.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484732 GHz</td> <td>-58.90 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 24/AUG/2020 10:20:56</p> | | | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.480099 GHz | 1.87 dBm | | | M2 | 1 | | 2.4835 GHz | -61.12 dBm | | | M3 | 1 | | 2.5 GHz | -63.12 dBm | | | M4 | 1 | | 2.484732 GHz | -58.90 dBm | | | | | | | | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.480099 GHz | 1.87 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4835 GHz | -61.12 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.5 GHz | -63.12 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.484732 GHz | -58.90 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

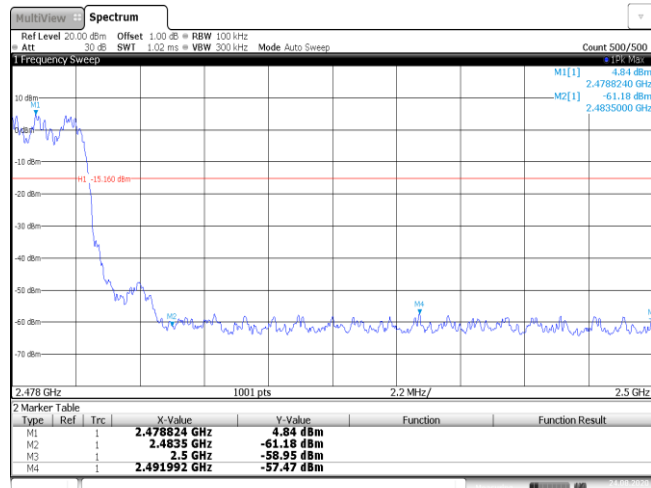
CH78
Hopping mode



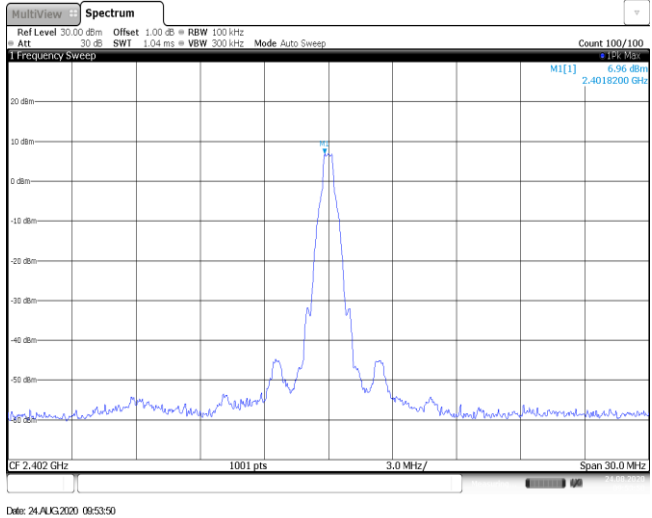
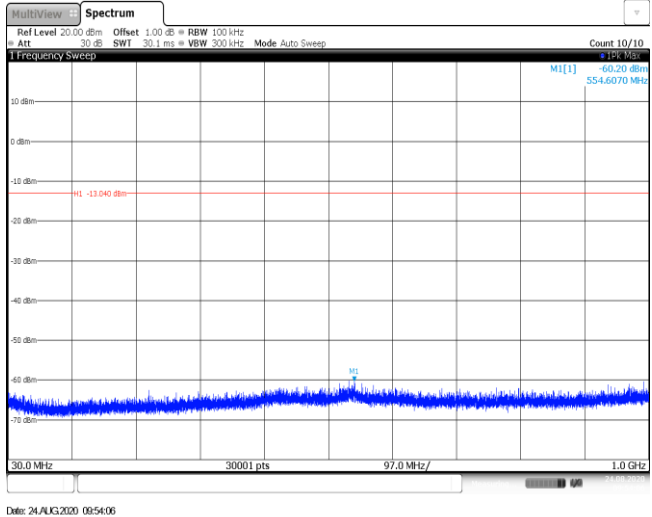
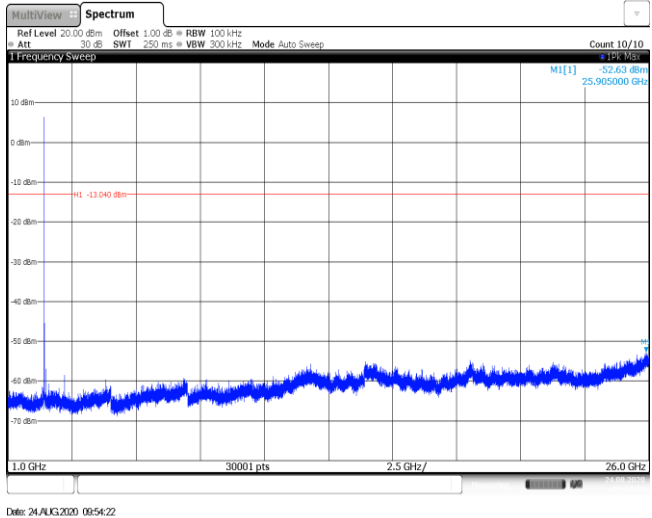
Date: 24/AUG/2020 10:43:19

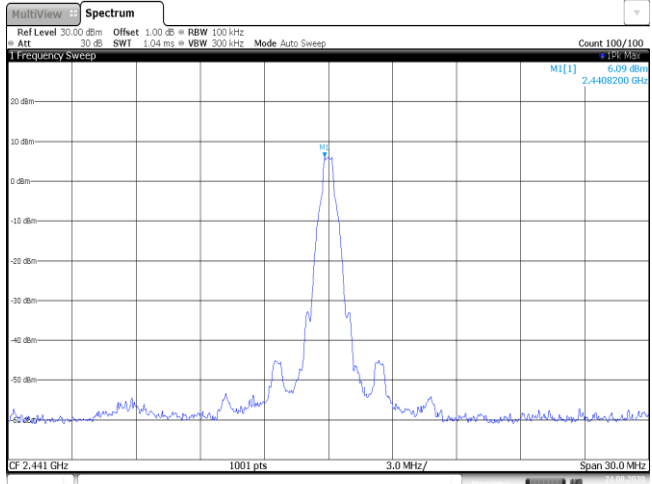
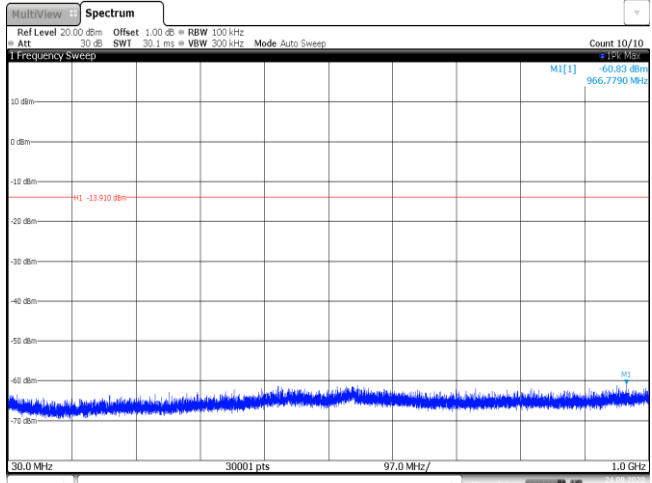
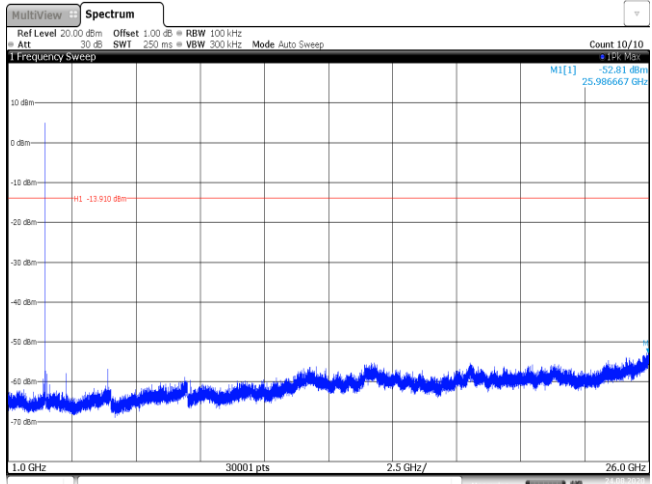
| Test Item: | Band edge | Modulation type: | 8DPSK |
|---------------------------------|-----------|------------------|-------|
| <p>CH00 No hopping mode</p> | | | |
| <p>CH00 Hopping mode</p> | | | |
| <p>CH78 No hopping mode</p> | | | |

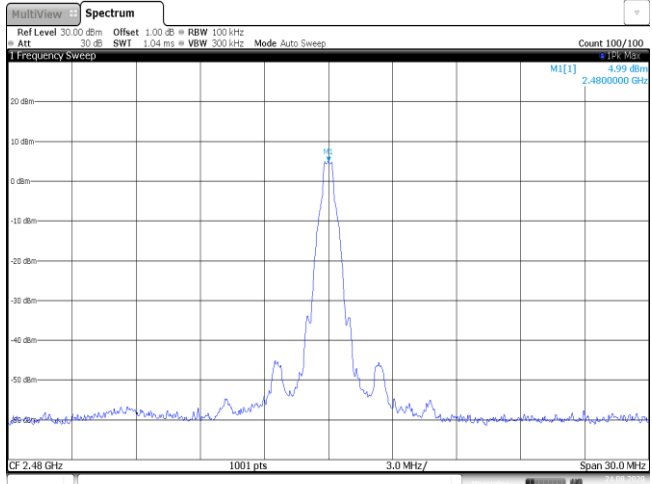
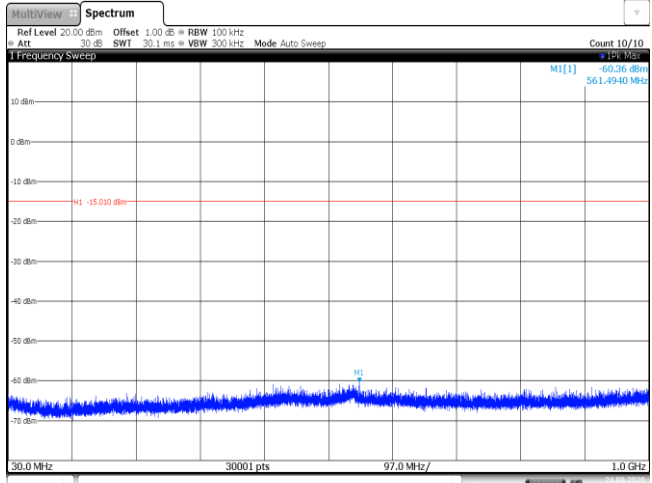
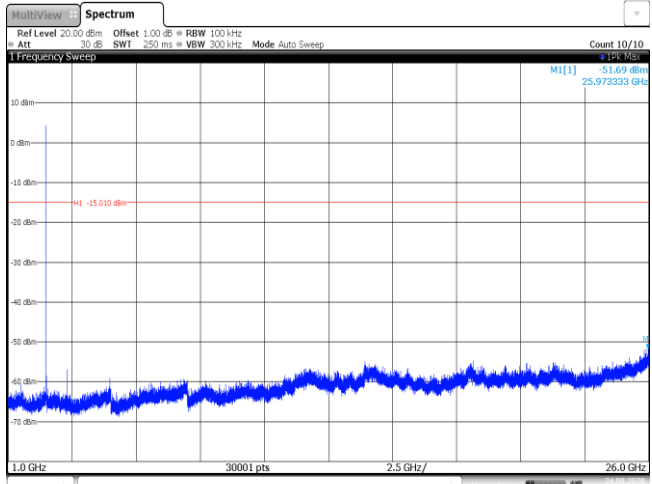
CH78
Hoppig mode

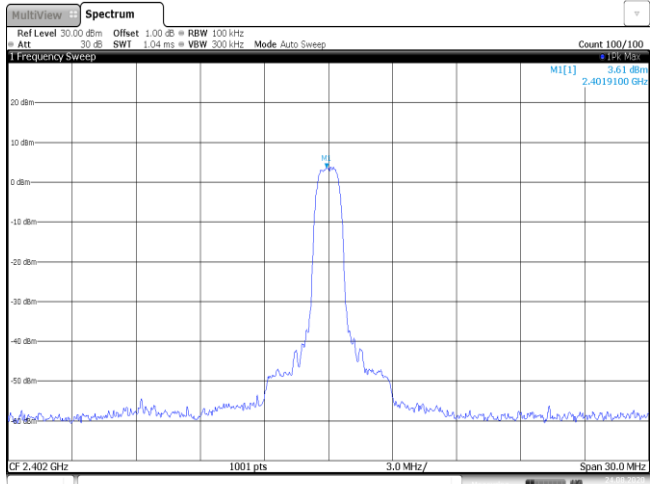
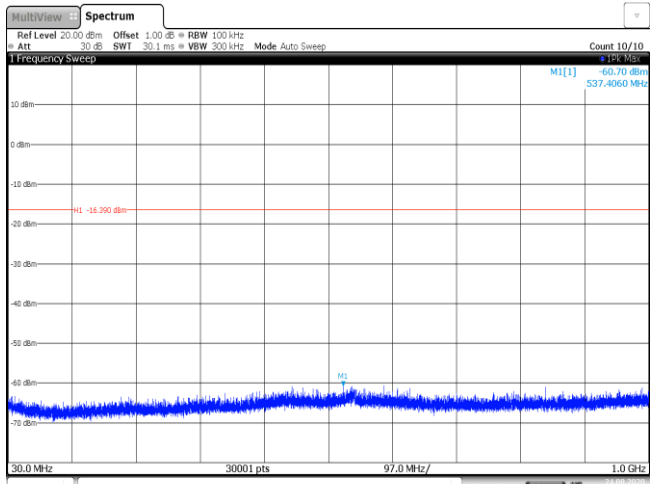
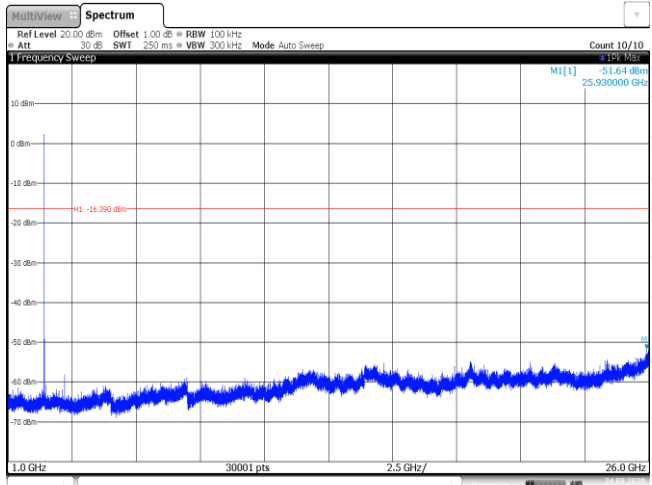


Date: 24/AUG/2020 10:46:35

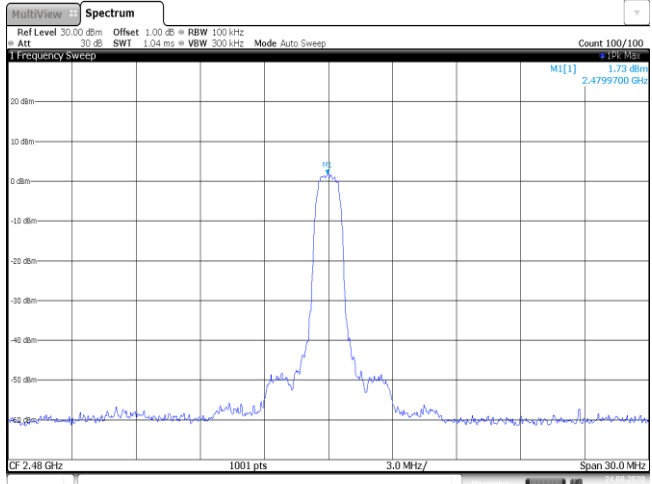
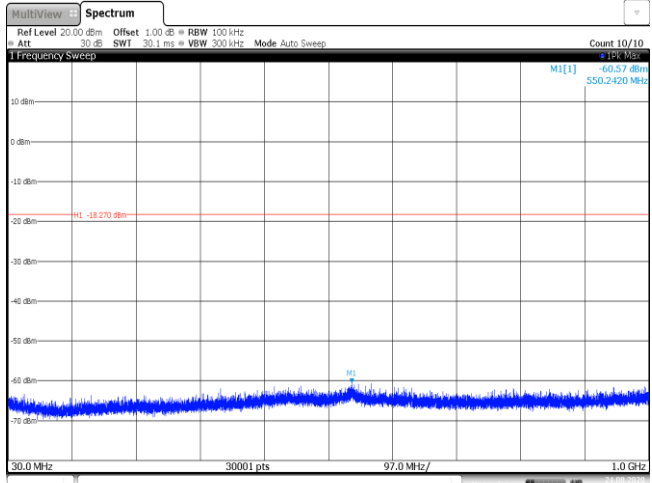
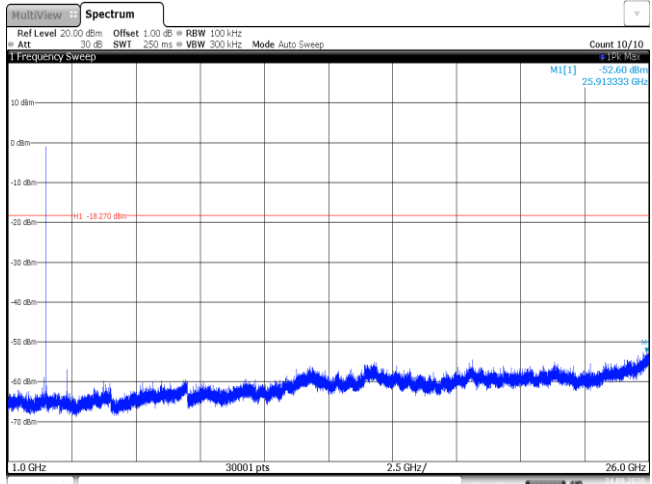
| Test Item: | Spurious Emission | Modulation type: | GFSK |
|---------------------------------|--|------------------|------|
| <p>CH00 Reference level</p> |  | | |
| <p>CH00 30MHz~1000MHz</p> |  | | |
| <p>CH00 1GHz~26GHz</p> |  | | |

| | |
|---------------------------------|--|
| <p>CH39 Reference level</p> |  <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 6.09 dBm 2.4408200 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24/AUG/2020 10:00:25</p> |
| <p>CH39 30MHz~1000MHz</p> |  <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -60.83 dBm 966.7790 MHz M1 -13.910 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 24/AUG/2020 10:00:41</p> |
| <p>CH39 1GHz~26GHz</p> |  <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -52.81 dBm 25.986667 GHz M1 -13.910 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 24/AUG/2020 10:00:57</p> |

| | |
|---------------------------------|--|
| <p>CH78 Reference level</p> |  <p>Date: 24/AUG/2020 10:02:05</p> |
| <p>CH78 30MHz~1000MHz</p> |  <p>Date: 24/AUG/2020 10:02:21</p> |
| <p>CH78 1GHz~26GHz</p> |  <p>Date: 24/AUG/2020 10:02:37</p> |

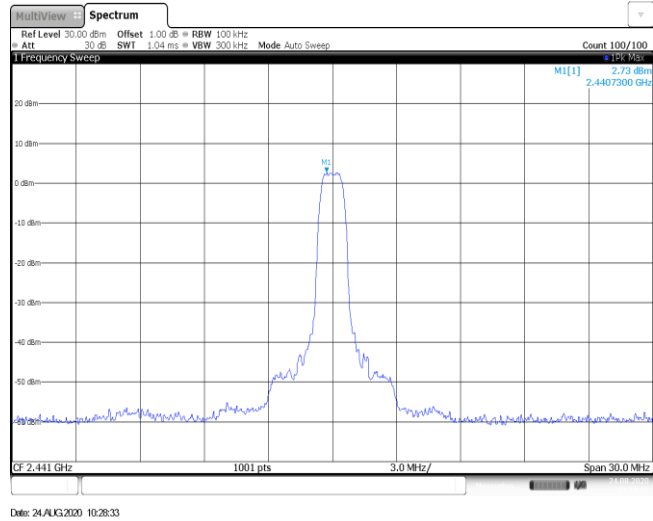
| Test Item: | Spurious Emission | Modulation type: | $\pi/4$ DQPSK |
|---------------------------------|--|------------------|---------------|
| <p>CH00 Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 3.61 dBm 2.4019100 GHz Date: 24/AUG/2020 10:09:44</p> | | |
| <p>CH00 30MHz~1000MHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.70 dBm 537.4060 MHz MI -16.390 dBm Date: 24/AUG/2020 10:10:01</p> | | |
| <p>CH00 1GHz~26GHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.64 dBm 25.930000 GHz MI -16.390 dBm Date: 24/AUG/2020 10:10:17</p> | | |

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|---------------------------------|-----------------------------------|
| <p>CH39 Reference level</p> | <p>Date: 24/AUG/2020 10:18:09</p> |
| <p>CH39 30MHz~1000MHz</p> | <p>Date: 24/AUG/2020 10:18:25</p> |
| <p>CH39 1GHz~26GHz</p> | <p>Date: 24/AUG/2020 10:18:41</p> |

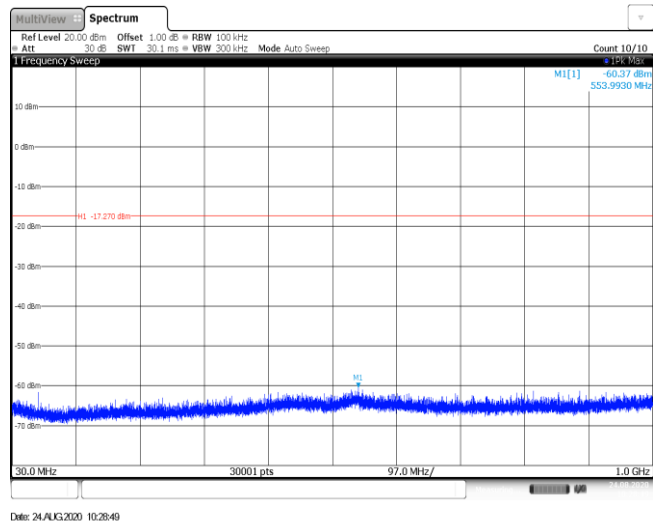
| | |
|---------------------------------|--|
| <p>CH78 Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 1.73 dBm 2.4799700 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24/AUG/2020 10:21:03</p> |
| <p>CH78 30MHz~1000MHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.57 dBm 550.2420 MHz MI -18.270 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 24/AUG/2020 10:21:19</p> |
| <p>CH78 1GHz~26GHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.60 dBm 25.913333 GHz MI -18.270 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 24/AUG/2020 10:21:35</p> |

| Test Item: | Spurious Emission | Modulation type: | 8DPSK |
|---------------------------------|--|------------------|-------|
| <p>CH00 Reference level</p> | <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 3.49 dBm 2.4022100 GHz GF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24/AUG/2020 10:24:21</p> | | |
| <p>CH00 30MHz~1000MHz</p> | <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.15 dBm 537.9240 MHz H1 -18.510 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 24/AUG/2020 10:24:37</p> | | |
| <p>CH00 1GHz~26GHz</p> | <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.58 dBm 25.916667 GHz H1 -18.510 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 24/AUG/2020 10:24:54</p> | | |

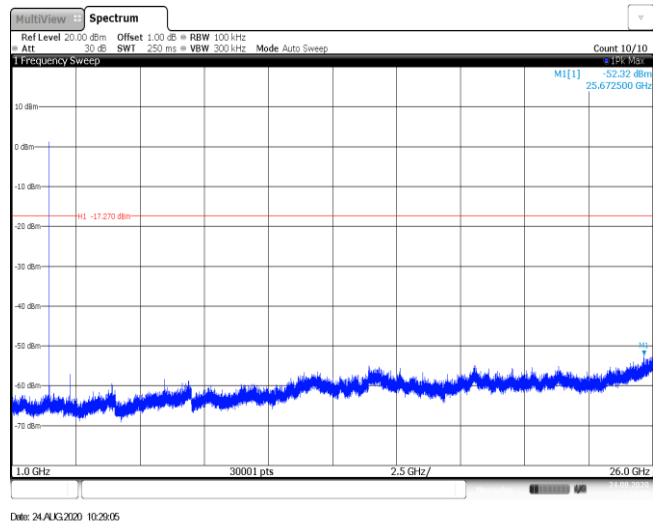
CH39
Reference level

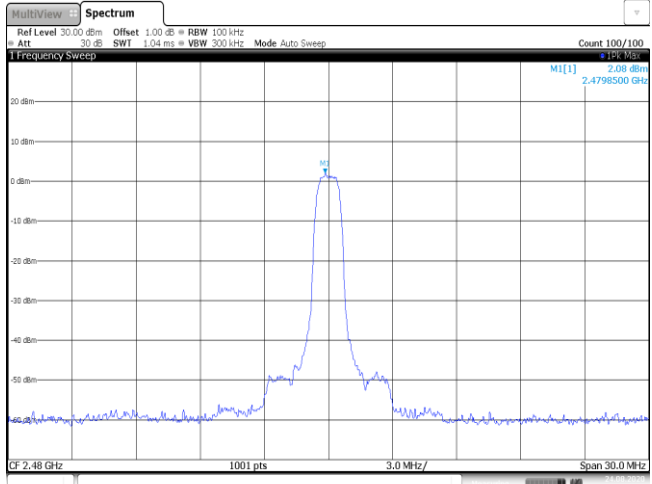
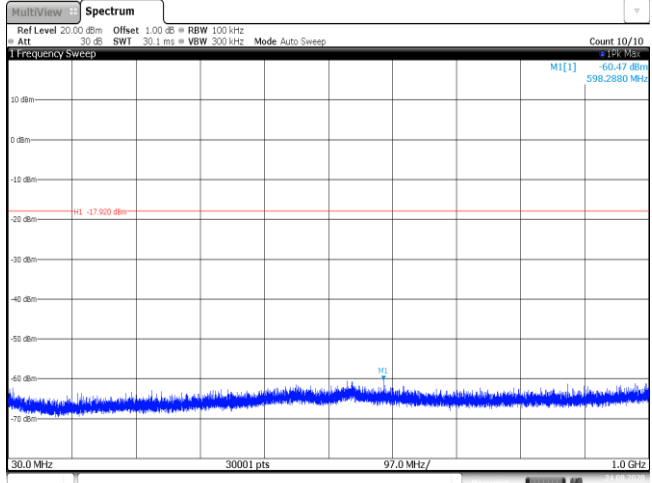
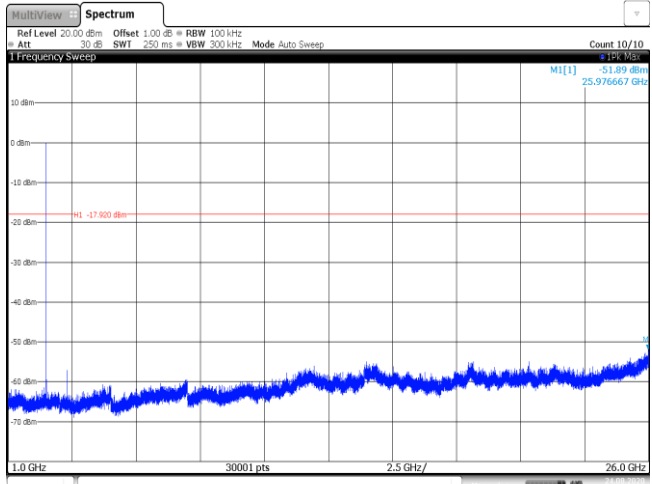


CH39
30MHz~1000MHz



CH39
1GHz~26GHz



| | |
|---------------------------------|---|
| <p>CH78 Reference level</p> |  <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 2.08 dBm 2.4798500 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 24/AUG/2020 10:31:55</p> |
| <p>CH78 30MHz~1000MHz</p> |  <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -60.47 dBm 598.2880 MHz MI -17.600 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 24/AUG/2020 10:32:11</p> |
| <p>CH78 1GHz~26GHz</p> |  <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -51.89 dBm 25.976667 GHz MI -17.600 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 24/AUG/2020 10:32:27</p> |

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