

# APPENDIX REPORT

Project No.	SHT2102011302EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21020113004	Model No.	ABX00023
Start test date	2021-03-01	Finish date	2021-03-01
Temperature	25.2°C	Humidity	64%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

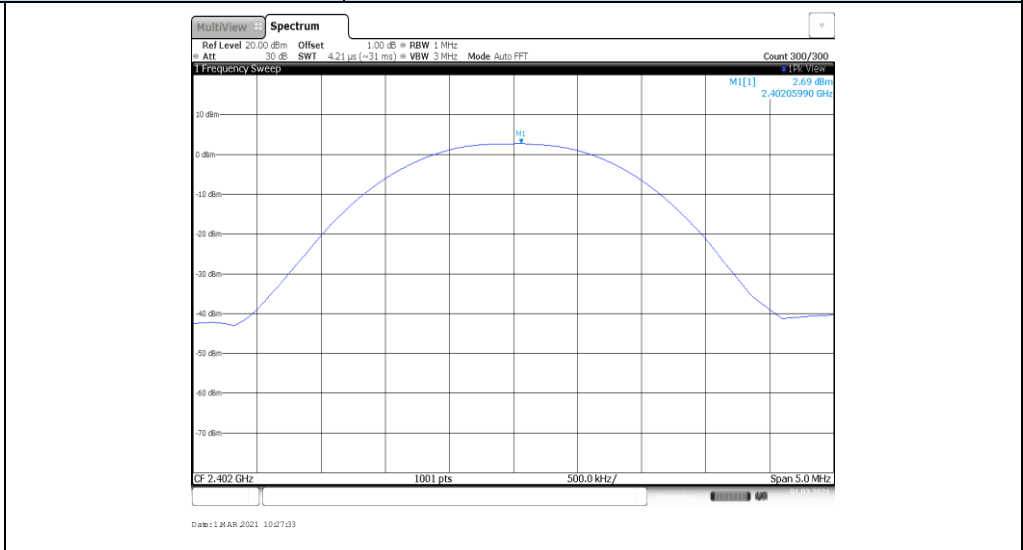
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

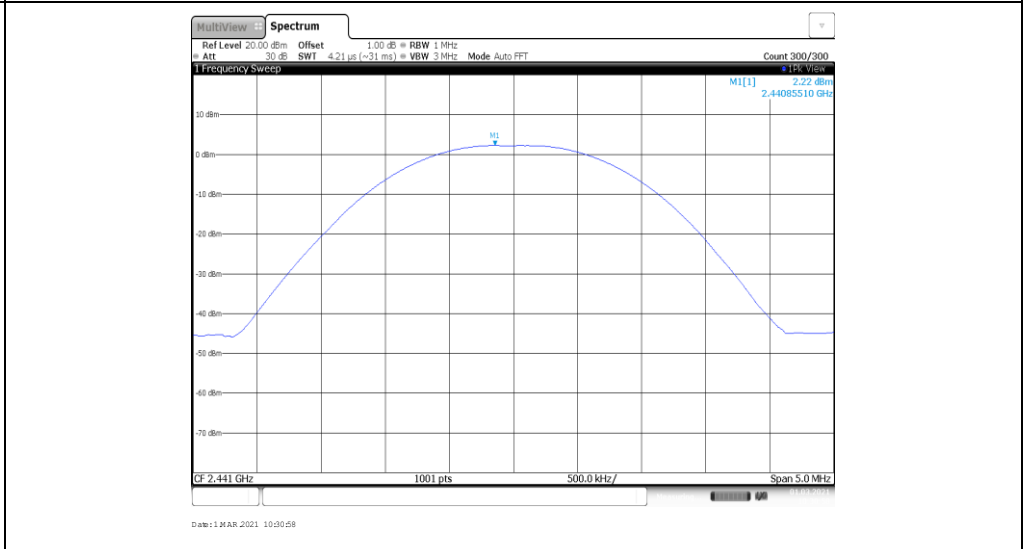
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.69	2.58	≤ 30.00	Pass
	39	2.22	2.20		
	78	2.52	2.51		
π/4DQPSK	00	2.70	2.05	≤ 21.00	Pass
	39	2.91	2.23		
	78	1.95	1.45		
8DPSK	00	3.22	2.45	≤ 21.00	Pass
	39	3.28	2.46		
	78	2.97	2.21		

**Modulation Type:** **GFSK**

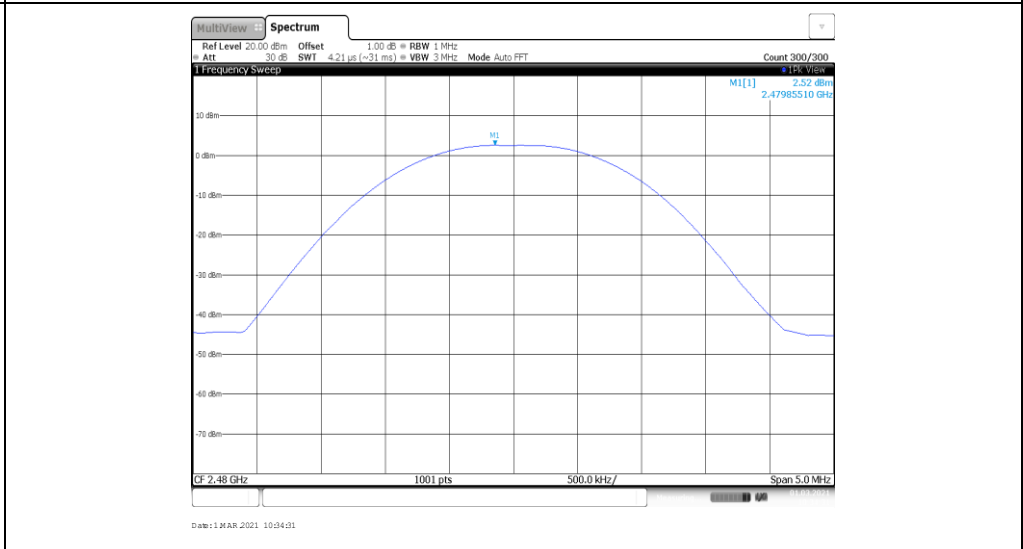
CH00



CH39

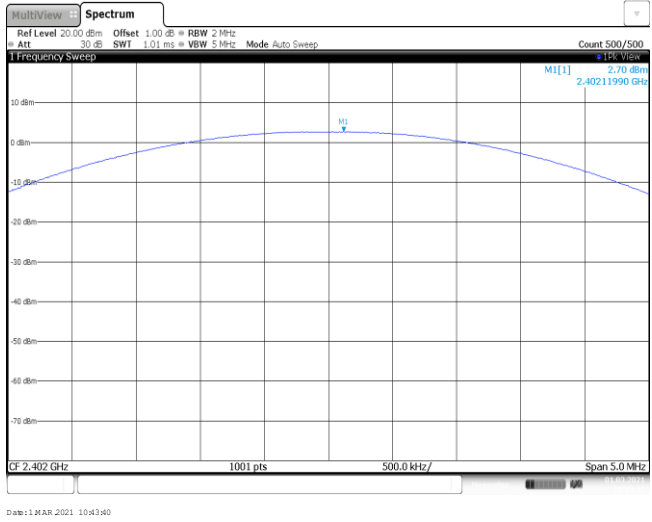


CH78



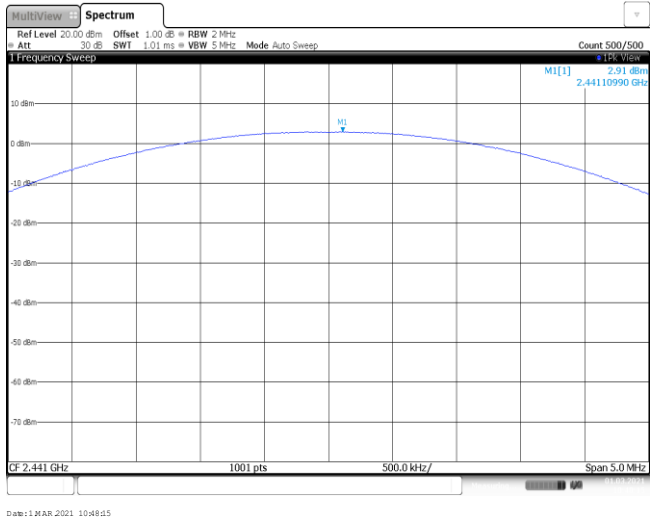
**Modulation Type:**  $\pi/4$ QPSK

CH00



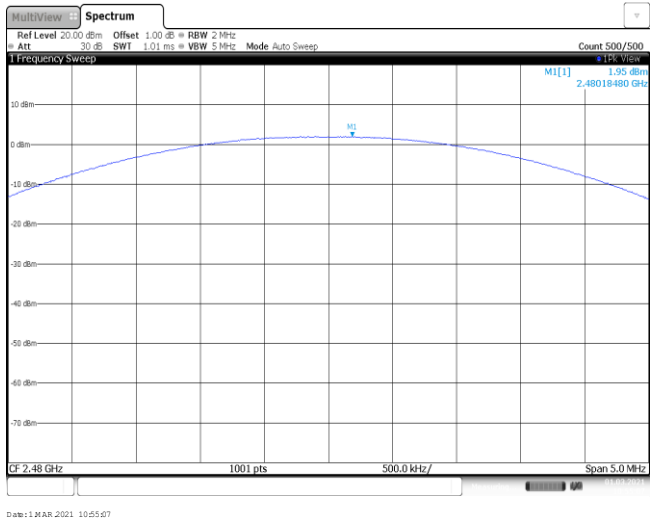
Date: 1 MAR 2021 10:43:40

CH39



Date: 1 MAR 2021 10:48:15

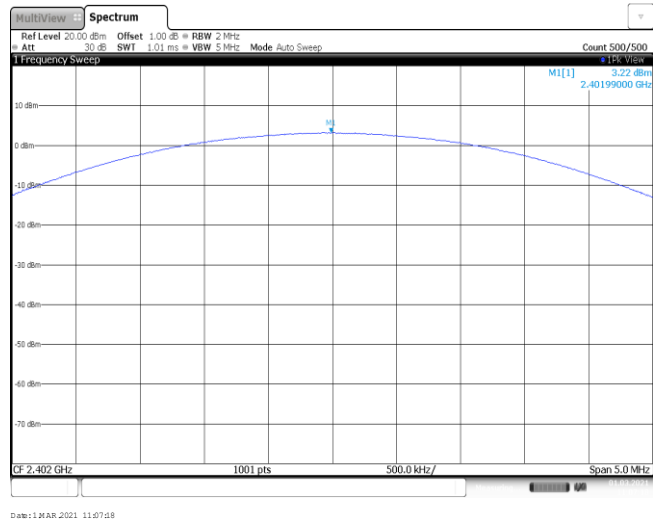
CH78



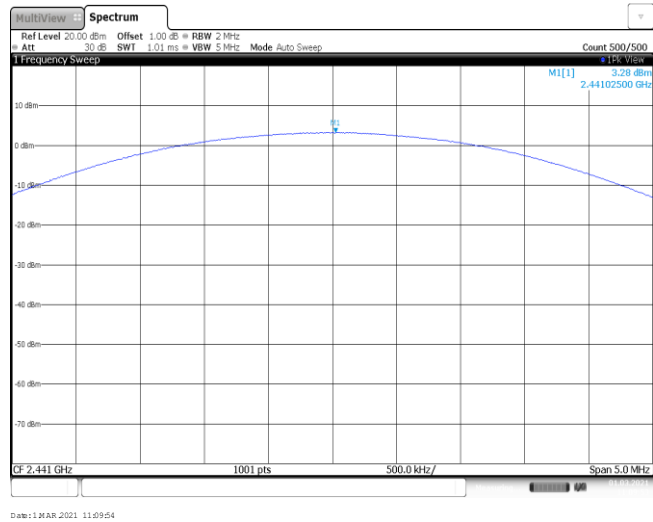
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**Modulation Type: 8DPSK**

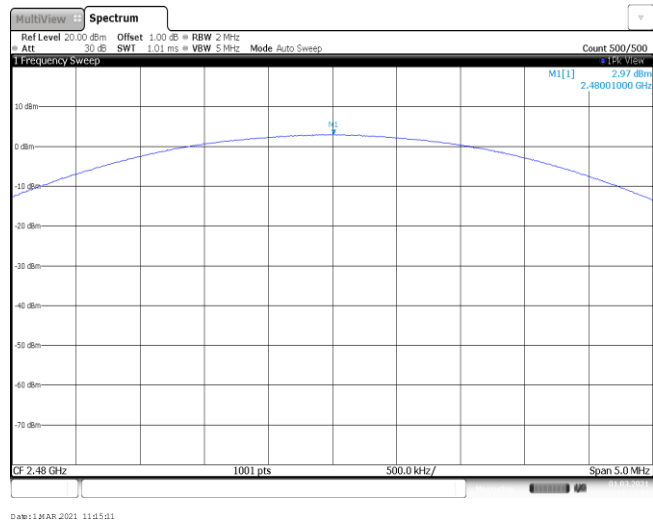
CH00



CH39



CH78

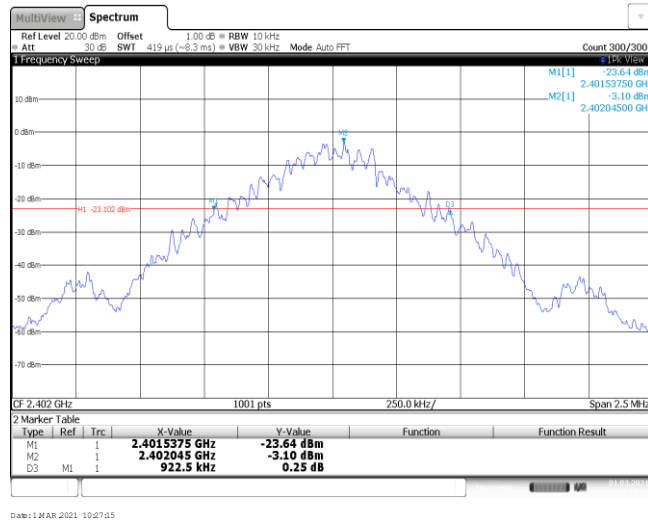


**Appendix B : 20 dB Bandwidth**

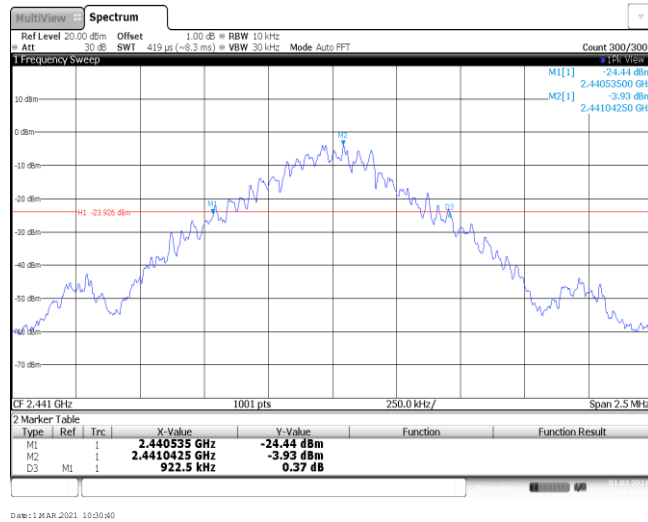
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	922.50	-	Pass
	39	922.50		
	78	925.00		
$\pi/4$ DQPSK	00	1332.50	-	Pass
	39	1332.50		
	78	1330.00		
8DPSK	00	1310.00	-	Pass
	39	1312.50		
	78	1310.00		

**Modulation Type: GFSK**

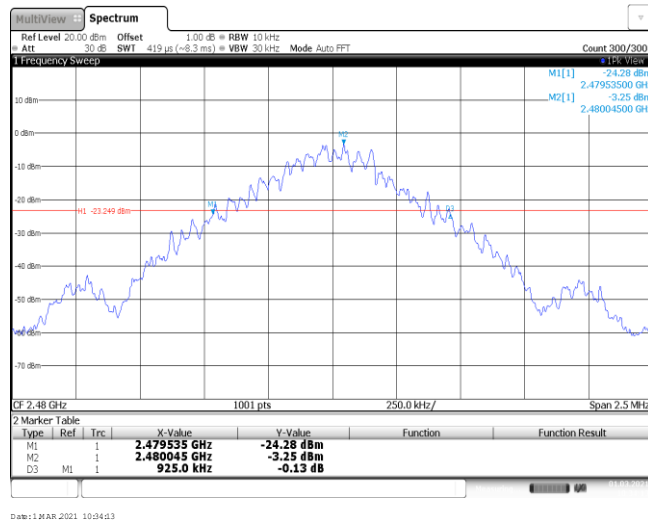
CH00



CH39

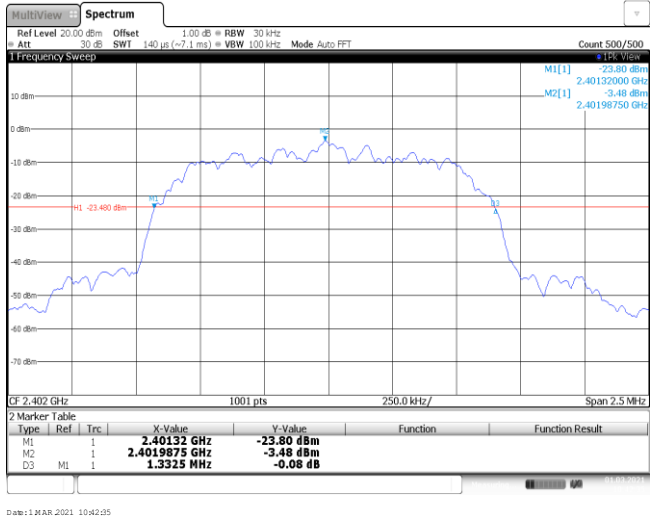


CH78



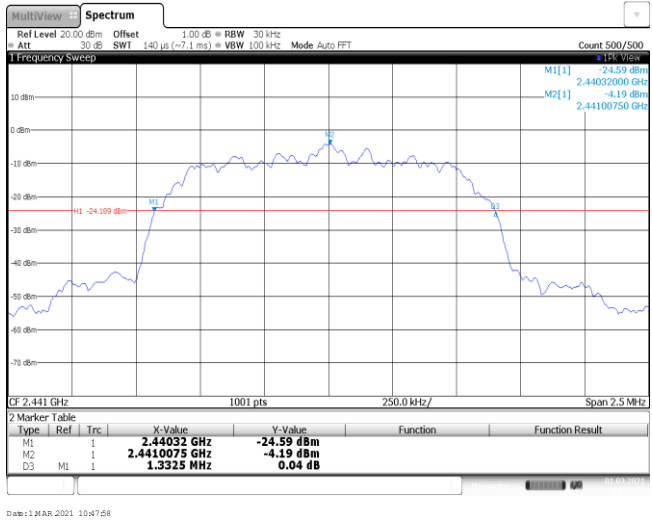
**Modulation Type:**  $\pi/4$ DQPSK

CH00



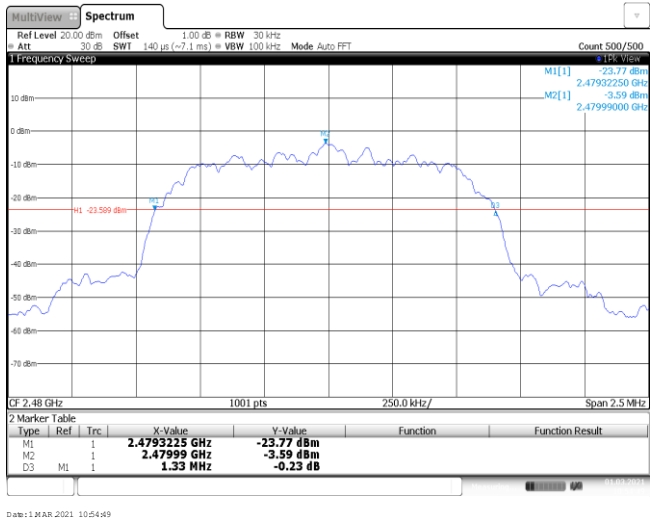
Date: 1 MAR 2021 10:42:35

CH39



Date: 1 MAR 2021 10:47:58

CH78

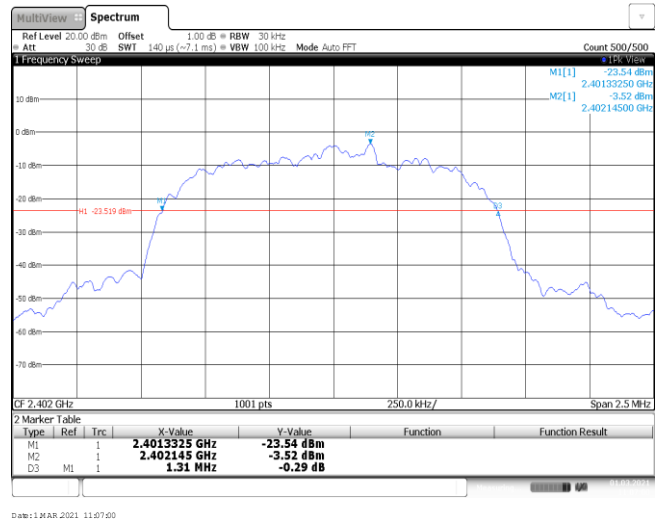


Date: 1 MAR 2021 10:54:49

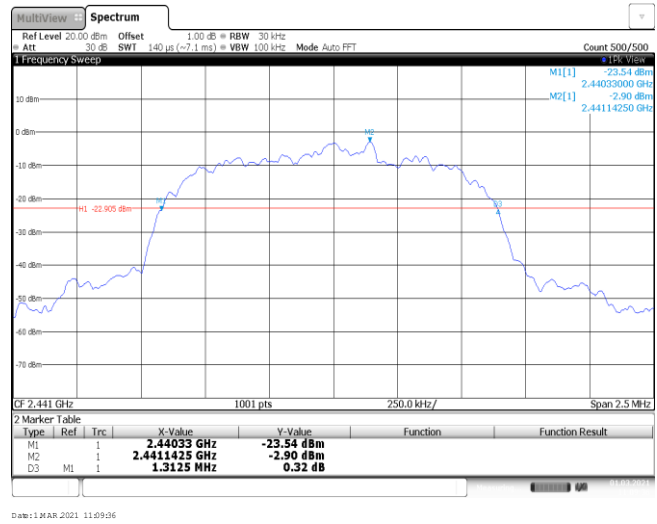


**Modulation Type: 8DPSK**

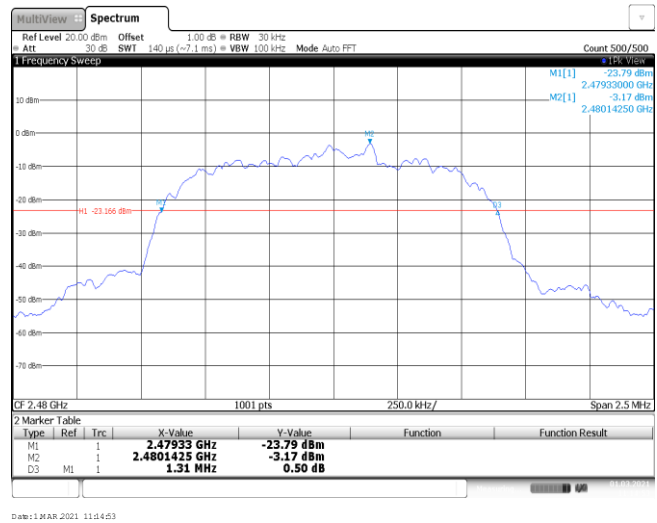
CH00



CH39



CH78

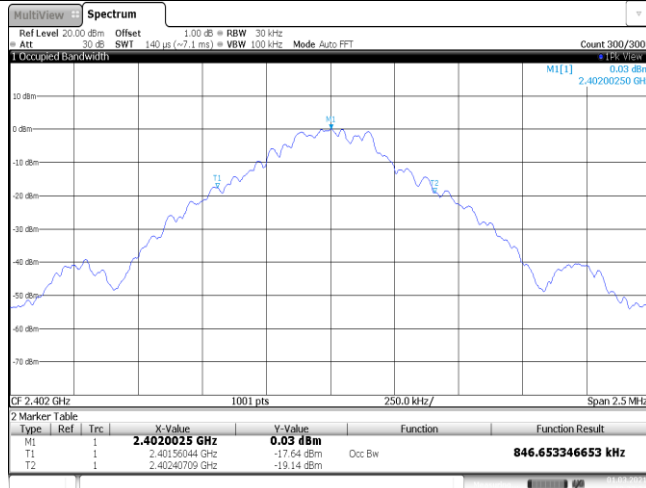


**Appendix C: 99% Occupied Bandwidth**

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.85	-	Pass
	39	0.85		
	78	0.85		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		

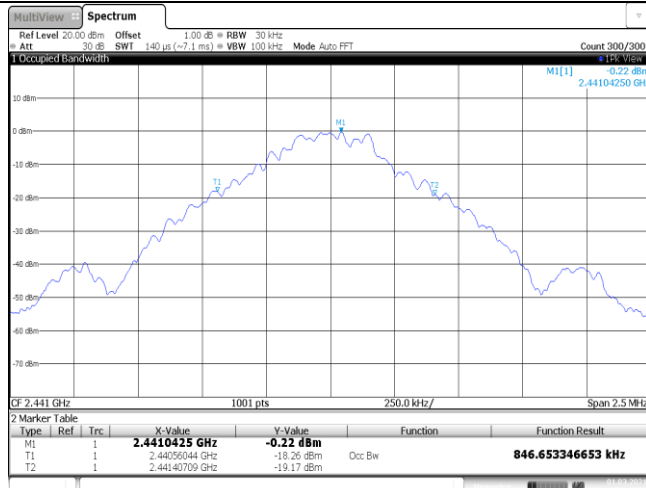
**Modulation Type: GFSK**

CH00



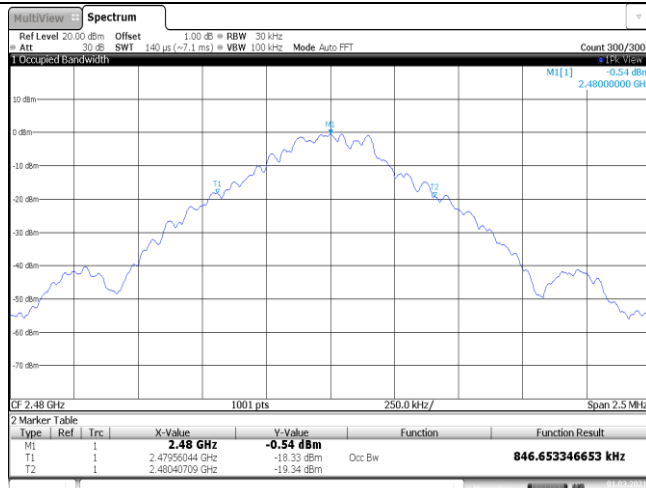
Date: 1 MAR 2021 10:27:23

CH39



Date: 1 MAR 2021 10:20:49

CH78



Date: 1 MAR 2021 10:24:22

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

CH00



Date: 1 MAR 2021 10:42:43

CH39



Date: 1 MAR 2021 10:48:06

CH78



Date: 1 MAR 2021 10:54:58

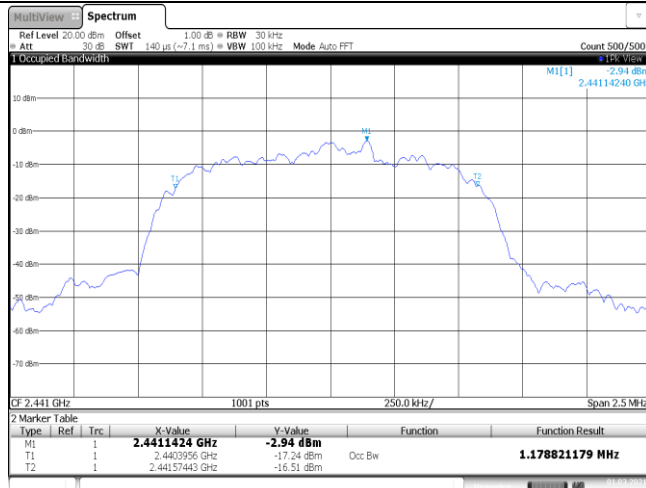
**Modulation Type: 8DPSK**

CH00



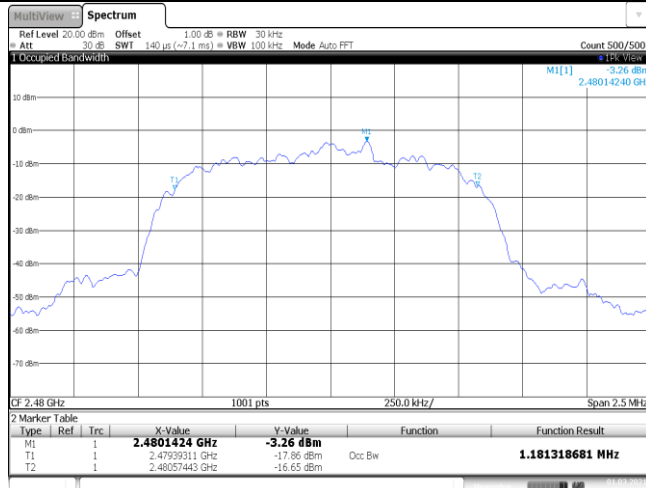
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CH39



Date: 1 MAR 2021 11:09:45

CH78



Date: 1 MAR 2021 11:15:02

**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	1.00	≥888.33	Pass
8DPSK	39	1.00	≥875.00	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

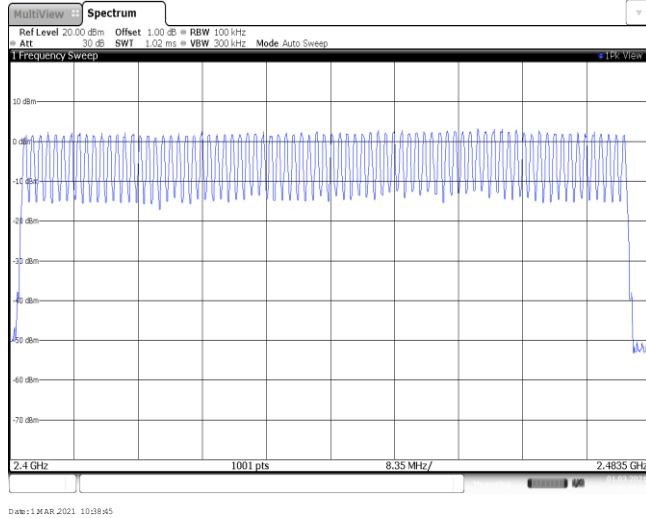
<p style="text-align: center;">GFSK</p>	<p style="text-align: right;">M1[1] 0.00 dBm 2.4410400 GHz D1[1] -0.07 dBm 2.4410400 GHz</p> <p style="text-align: center;">Date: 1 MAR 2021 10:37:20</p>
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	<p style="text-align: right;">M1[1] -5.21 dBm 2.440997220 GHz D1[1] 0.16 dBm 2.440997220 GHz</p> <p style="text-align: center;">Date: 1 MAR 2021 10:59:20</p>
<p style="text-align: center;">8DPSK</p>	<p style="text-align: right;">M1[1] -3.13 dBm 2.44114300 GHz D1[1] -0.39 dBm 2.44114300 GHz</p> <p style="text-align: center;">Date: 1 MAR 2021 11:18:20</p>

**Appendix E: Hopping Channel Number**

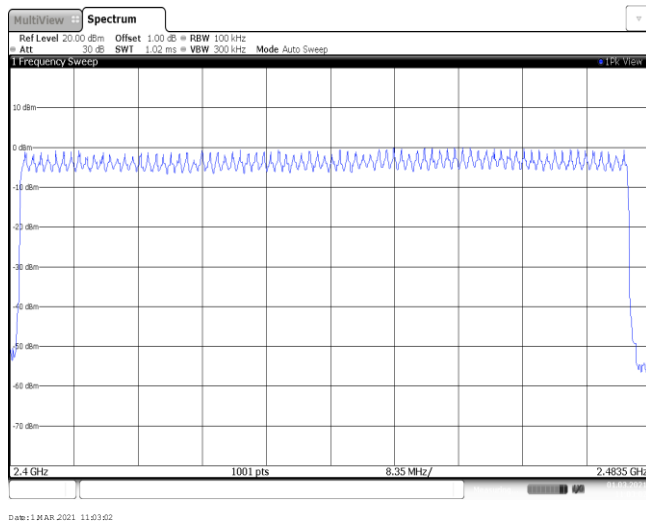
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



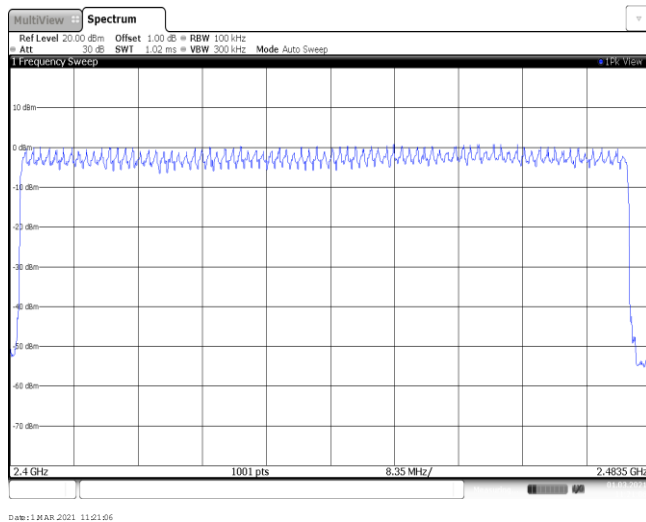
GFSK



$\pi/4$ DQPSK



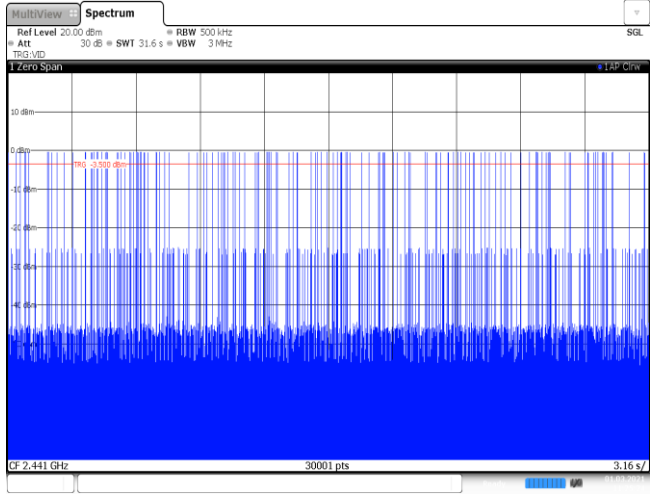
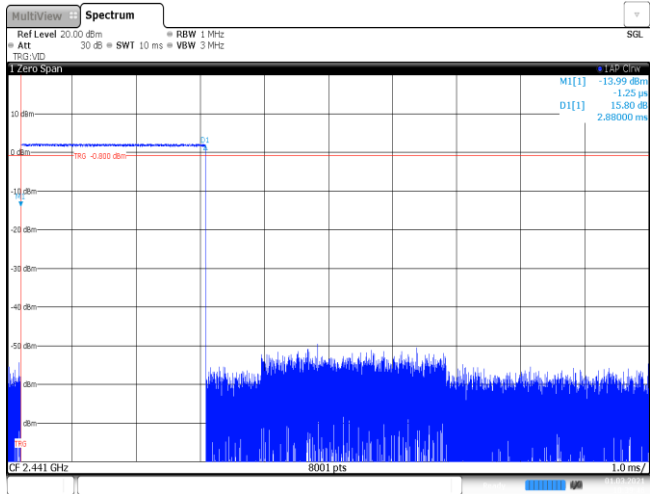
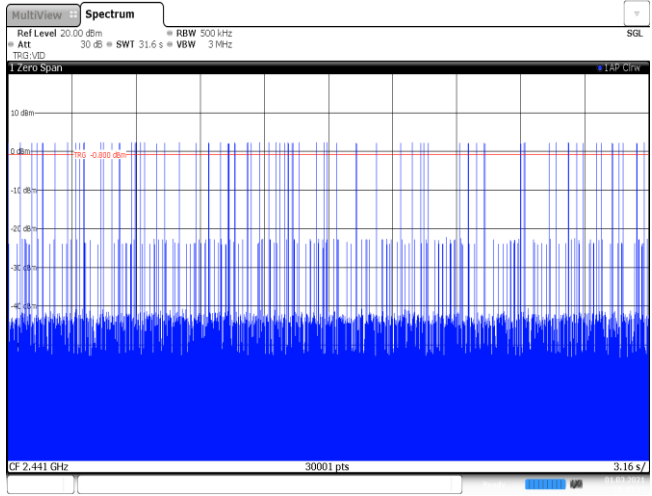
8DPSK



**Appendix F: Dwell Time**

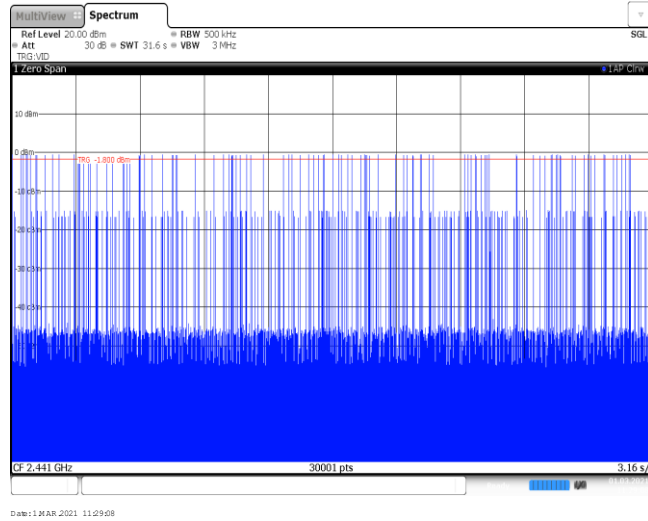
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	122	0.05	≤ 0.40	Pass
	DH3	1.63	133	0.22		
	DH5	2.88	78	0.23		
π/4DQPSK	2DH1	0.39	117	0.05	≤ 0.40	Pass
	2DH3	1.64	103	0.17		
	2DH5	2.89	83	0.24		
8DPSK	3DH1	0.39	133	0.05	≤ 0.40	Pass
	3DH3	1.64	125	0.21		
	3DH5	2.89	80	0.23		

Modulation Type:	GFSK
<p>DH1 Burst width</p>	<p>Ref Level 20.00 dBm Att 30 dB SWT 10 ms VBW 3 MHz RBW 1 MHz</p> <p>M[1] -15.40 dBm D1[1] 14.79 dB 376.25 ps</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1 MAR 2021 11:23:40</p>
<p>DH1 Burst number</p>	<p>Ref Level 20.00 dBm Att 30 dB SWT 31.6 s VBW 3 MHz RBW 500 kHz</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 1 MAR 2021 11:24:14</p>
<p>DH3 Burst width</p>	<p>Ref Level 20.00 dBm Att 30 dB SWT 10 ms VBW 3 MHz RBW 1 MHz</p> <p>M[1] -20.20 dBm D1[1] 19.27 dB 1.63250 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1 MAR 2021 11:24:50</p>

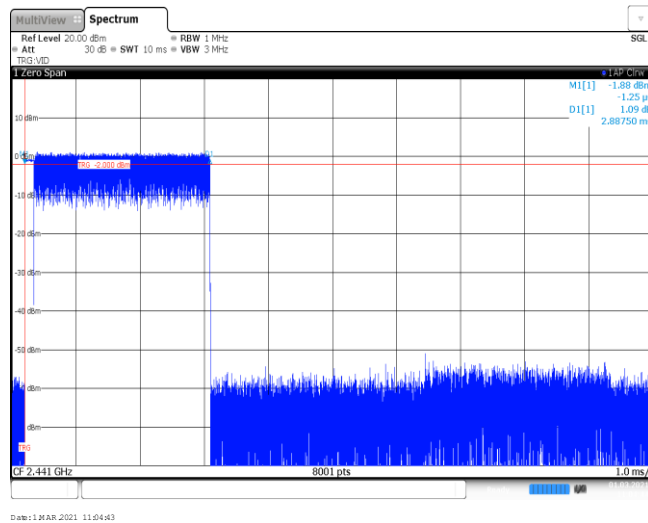
<p>DH3 Burst number</p>	
<p>DH5 Burst width</p>	
<p>DH5 Burst number</p>	

Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz</p> <p>M[1] -23.67 dBm D[1] 23.33 dB 388.75 <math>\mu</math>s</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 1 MAR 2021 11:27:35</p>
2DH1 Burst number	<p>Ref Level 20.00 dBm    RBW 500 kHz Att 30 dB    SWT 31.6 s    VBW 3 MHz</p> <p>CF 2.441 GHz    30001 pts    3.16 s/</p> <p>Date: 1 MAR 2021 11:28:09</p>
2DH3 Burst width	<p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz</p> <p>M[1] -5.78 dBm D[1] 5.05 dB 1.64000 ms</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 1 MAR 2021 11:28:09</p>

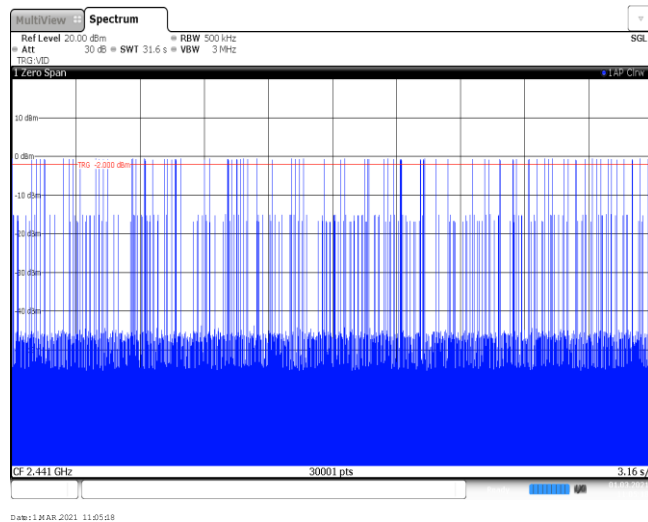
2DH3  
Burst number



2DH5  
Burst width

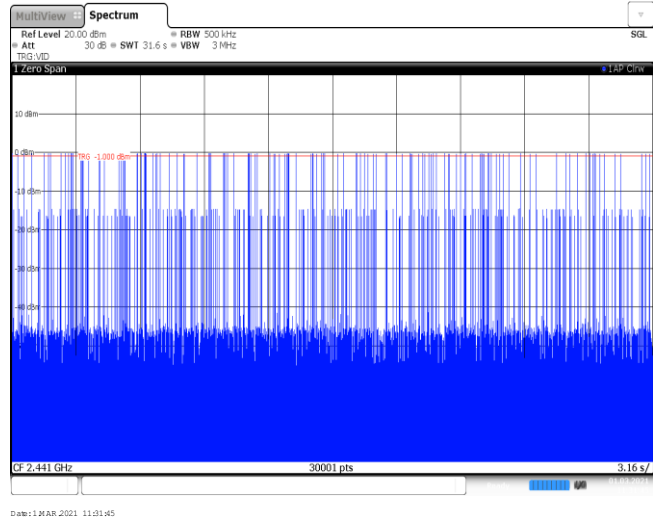


2DH5  
Burst number

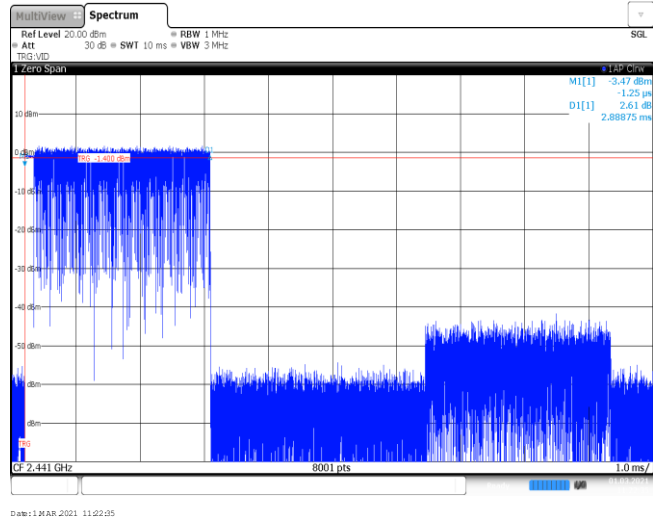


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] 5.34 dBm -1.25 μs D1[1] 5.01 dB 387.50 μs</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1 MAR 2021 11:30:01</p>
3DH1 Burst number	<p>Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>M[1] 5.34 dBm -1.25 μs D1[1] 5.01 dB 387.50 μs</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 1 MAR 2021 11:30:06</p>
3DH3 Burst width	<p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] -6.46 dBm 27.50 μs D1[1] 6.50 dB 1.63875 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1 MAR 2021 11:01:11</p>

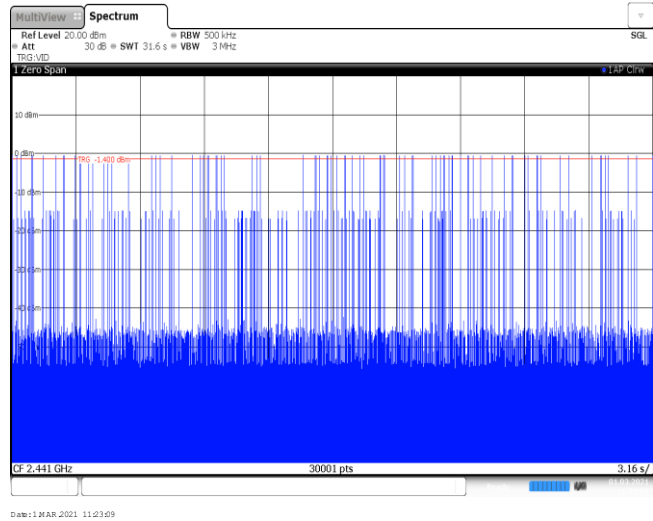
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

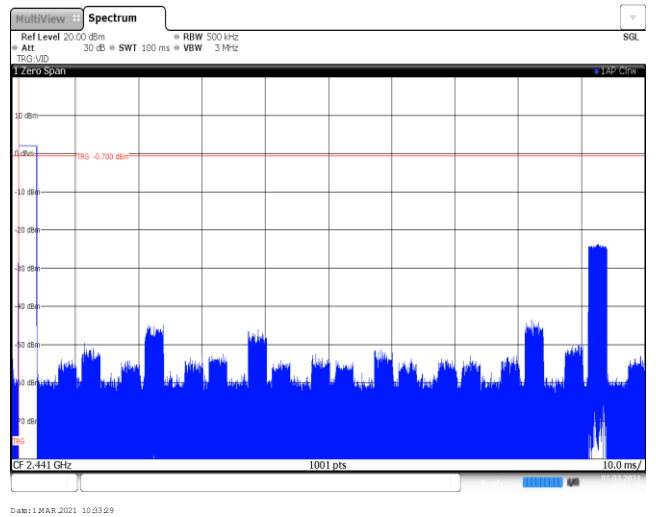
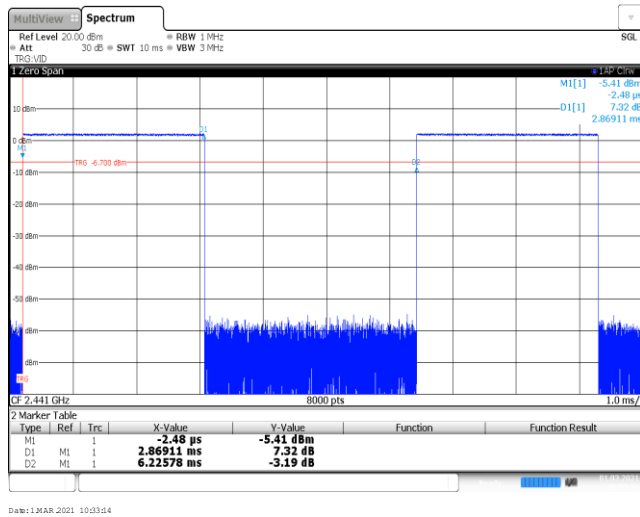




**Appendix G: Duty Cycle Correction Factor (DCCF)**

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	2.87	100	2	-24.82
$\pi/4$ DQPSK	2441	2.88	100	2	-24.79
8DPSK	2441	2.87	100	1	-30.84

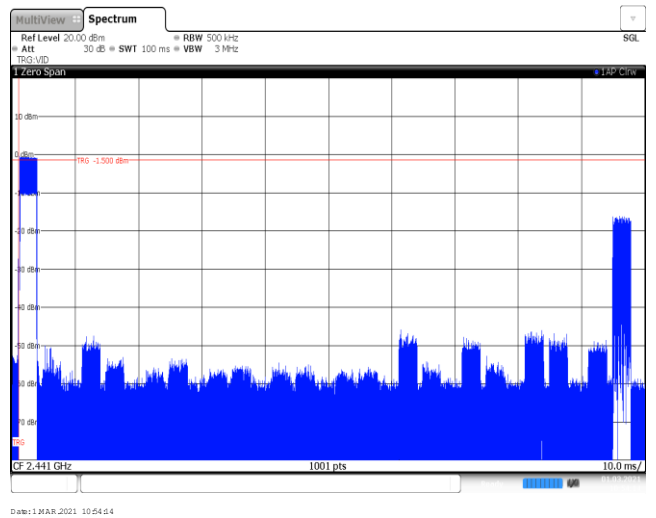
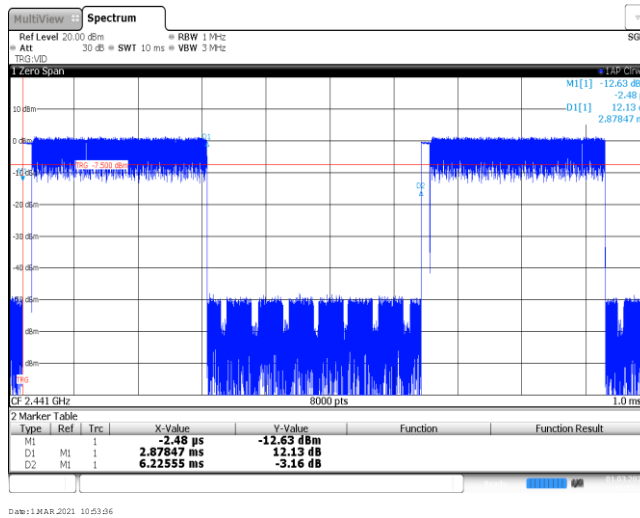
### GFSK



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

Burst Quantity

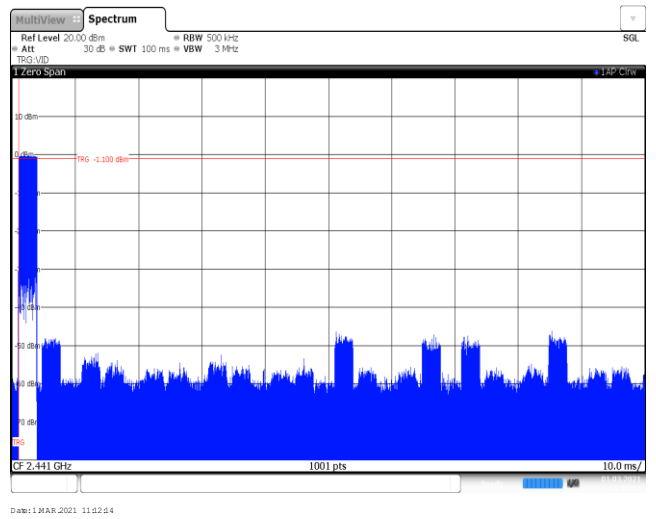
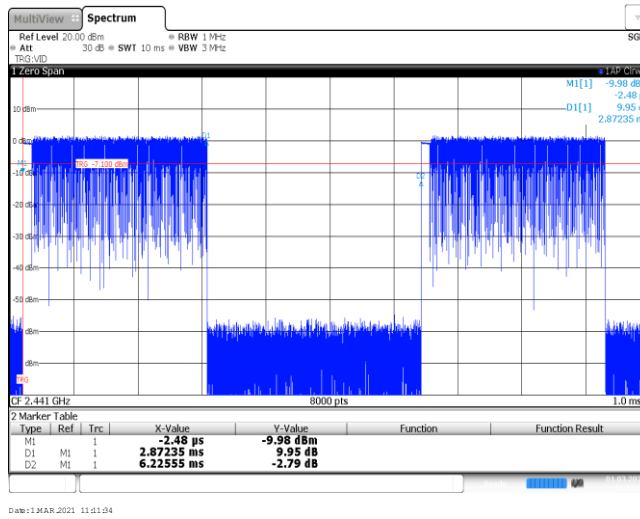
### $\pi/4$ DQPSK



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

Burst Quantity

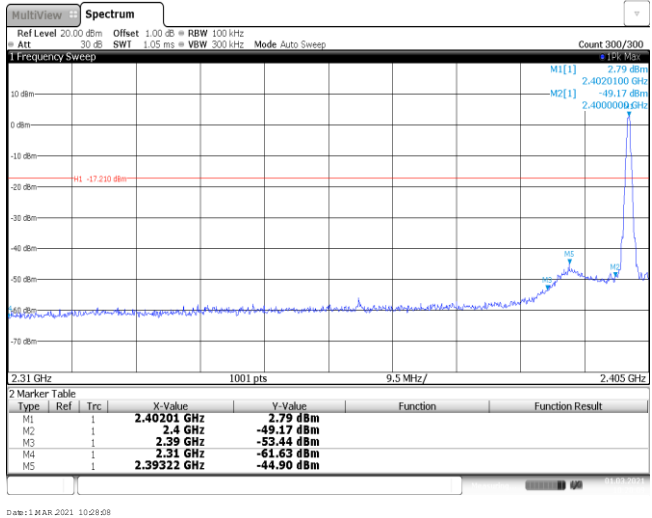
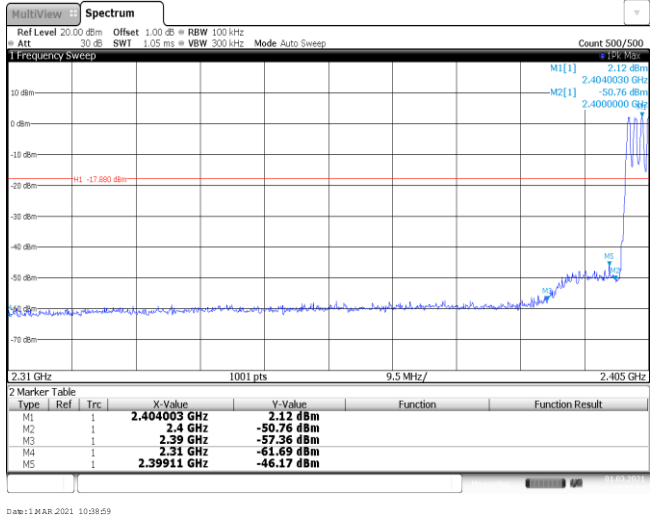
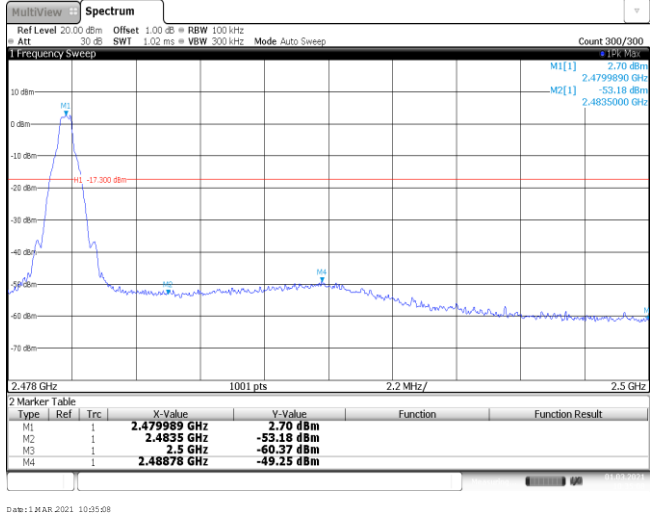
### 8DPSK



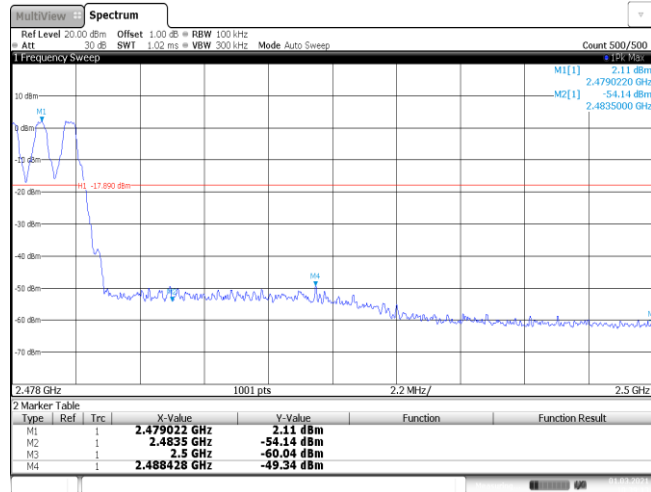
T<sub>on</sub> time for single burst

Burst Quantity

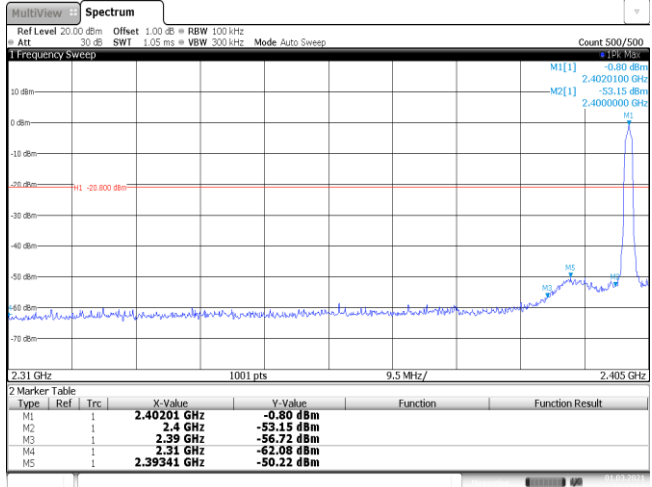
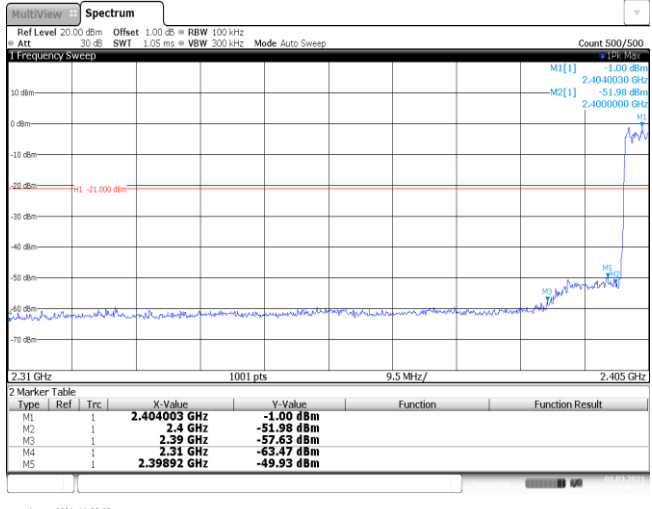
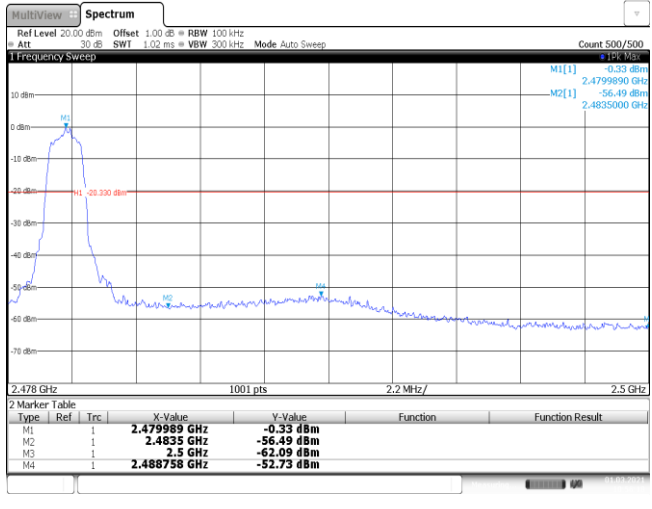
**Appendix H: Band edge and Spurious Emissions (conducted)**

Test Item:	Band edge	Modulation type:	GFSK																																										
<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>2.40201 GHz</td> <td>2.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-49.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-53.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-61.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39322 GHz</td> <td>-44.90 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1 MAR 2021 10:28:08</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	2.79 dBm			M2	1		2.4 GHz	-49.17 dBm			M3	1		2.39 GHz	-53.44 dBm			M4	1		2.31 GHz	-61.63 dBm			M5	1		2.39322 GHz	-44.90 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40201 GHz	2.79 dBm																																									
M2	1		2.4 GHz	-49.17 dBm																																									
M3	1		2.39 GHz	-53.44 dBm																																									
M4	1		2.31 GHz	-61.63 dBm																																									
M5	1		2.39322 GHz	-44.90 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>2.404003 GHz</td> <td>2.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-61.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39911 GHz</td> <td>-46.17 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1 MAR 2021 10:28:59</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404003 GHz	2.12 dBm			M2	1		2.4 GHz	-50.76 dBm			M3	1		2.39 GHz	-57.36 dBm			M4	1		2.31 GHz	-61.69 dBm			M5	1		2.39911 GHz	-46.17 dBm		
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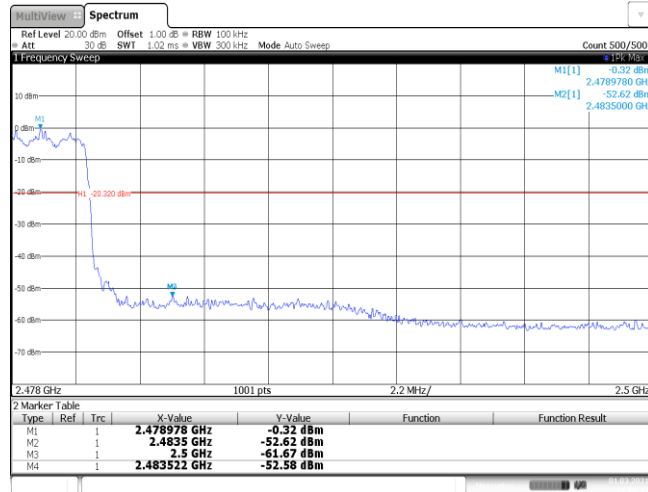
CH78  
Hopping mode



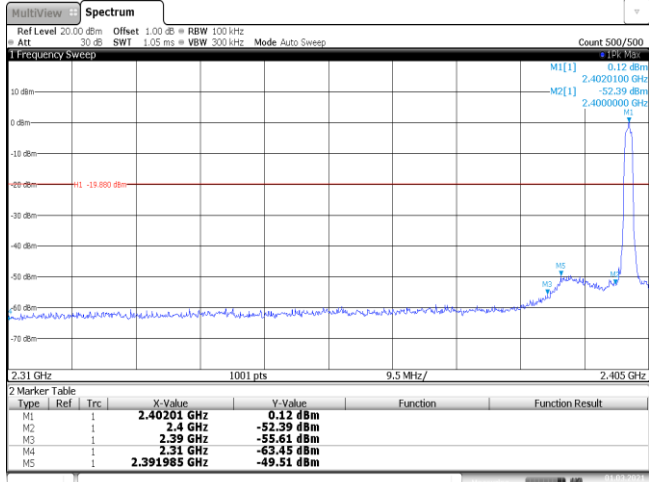
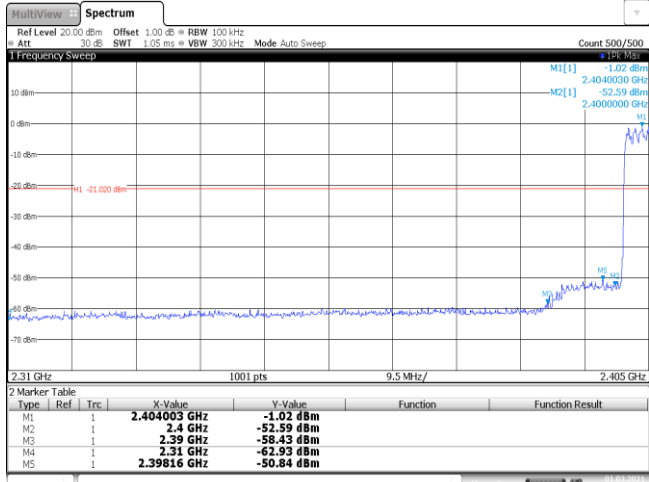
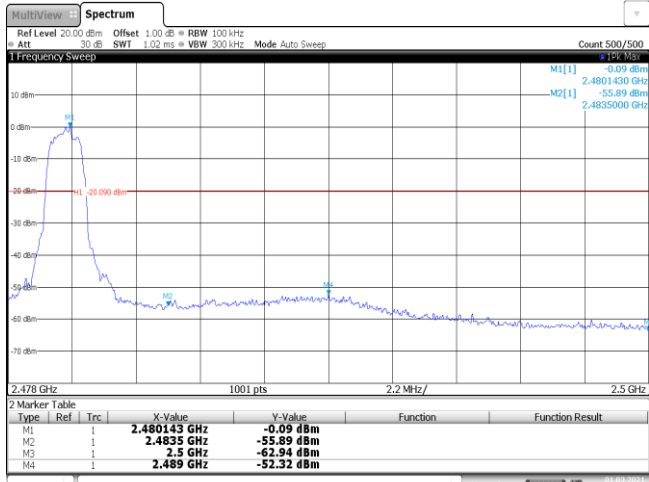
Date: 1 MAR 2021 10:29:13

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>2.40201 GHz</td> <td>-0.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-56.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39341 GHz</td> <td>-50.22 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1 MAR 2021 10:43:06</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-0.80 dBm			M2	1		2.4 GHz	-53.15 dBm			M3	1		2.39 GHz	-56.72 dBm			M4	1		2.31 GHz	-62.08 dBm			M5	1		2.39341 GHz	-50.22 dBm		
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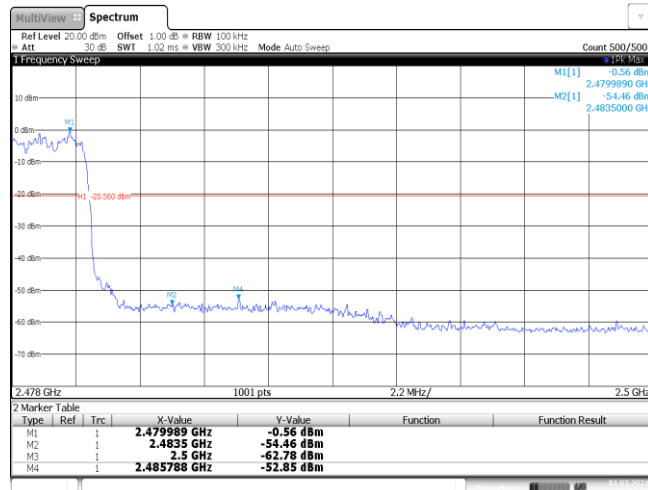
CH78  
Hopping mode



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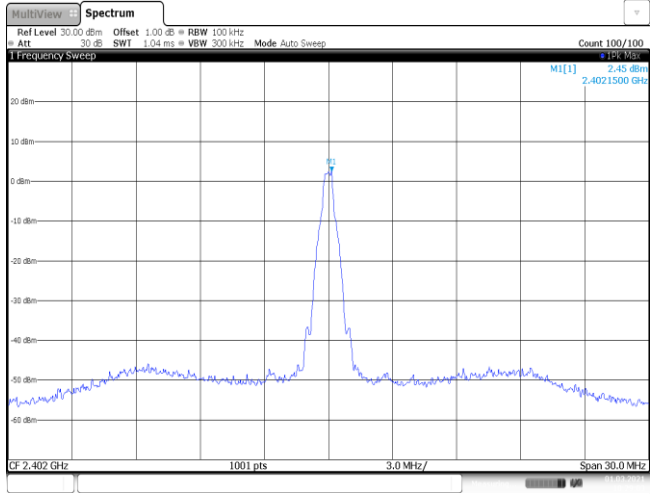
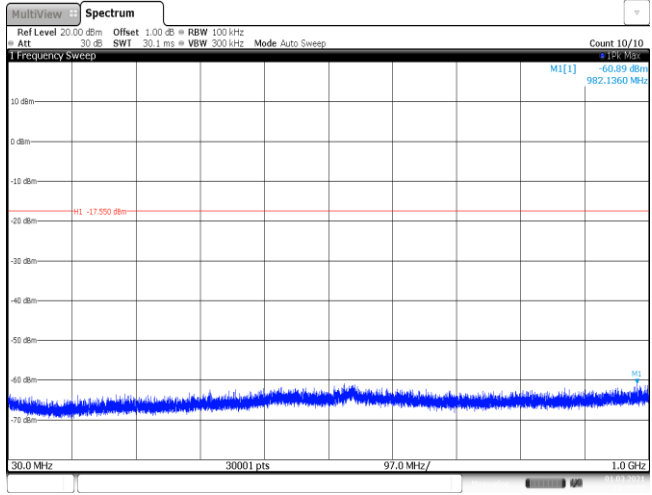
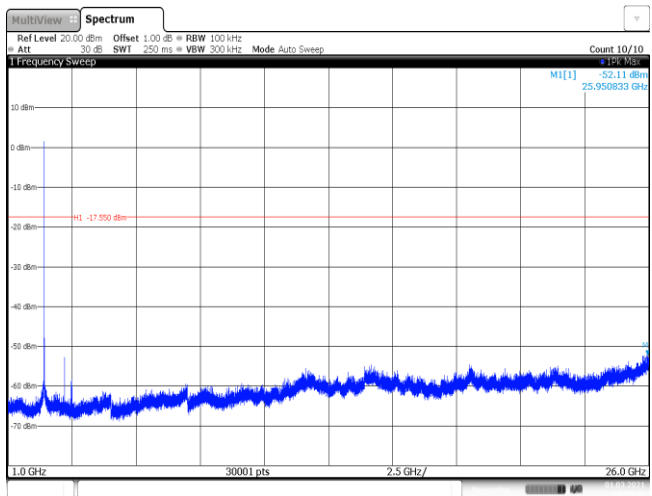
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40201 GHz</td> <td>0.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-55.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.391985 GHz</td> <td>-49.51 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1 MAR 2021 11:07:52</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	0.12 dBm			M2	1		2.4 GHz	-52.39 dBm			M3	1		2.39 GHz	-55.61 dBm			M4	1		2.31 GHz	-63.45 dBm			M5	1		2.391985 GHz	-49.51 dBm		
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CH78  
Hoppig mode



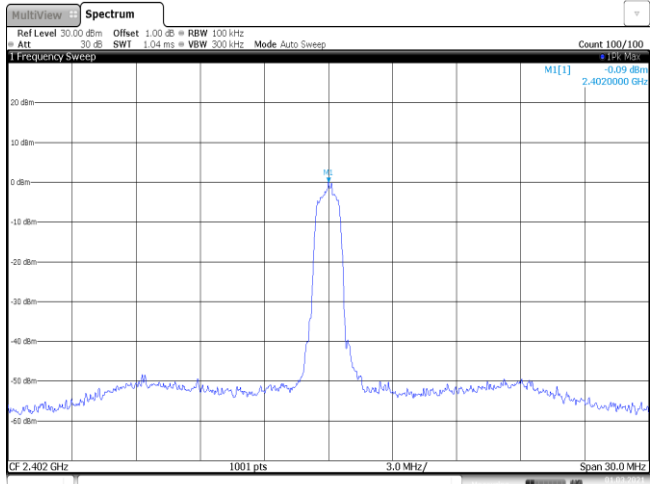
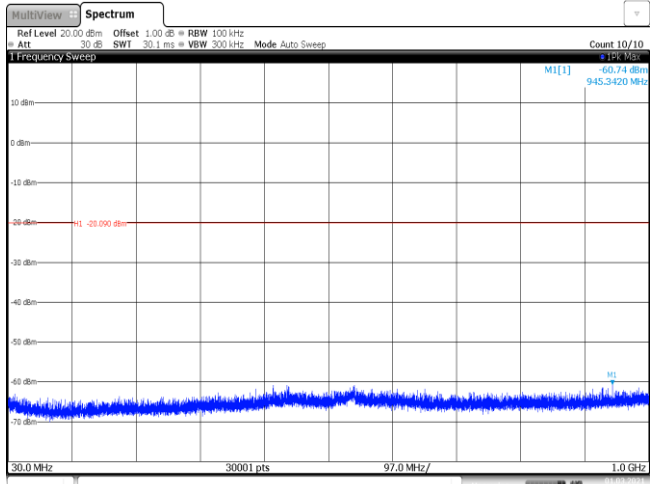
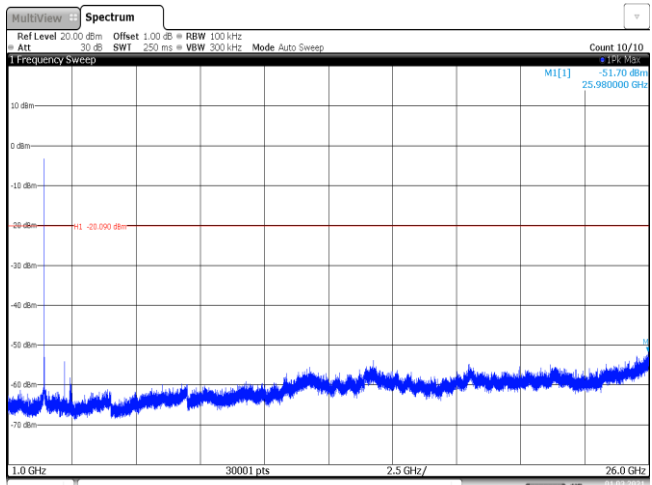
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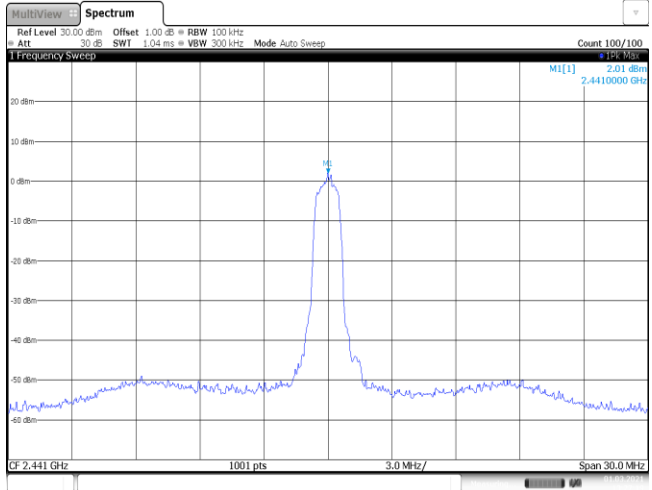
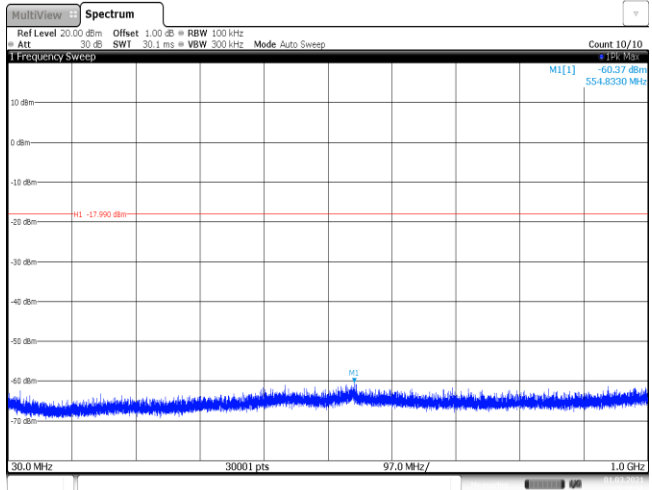
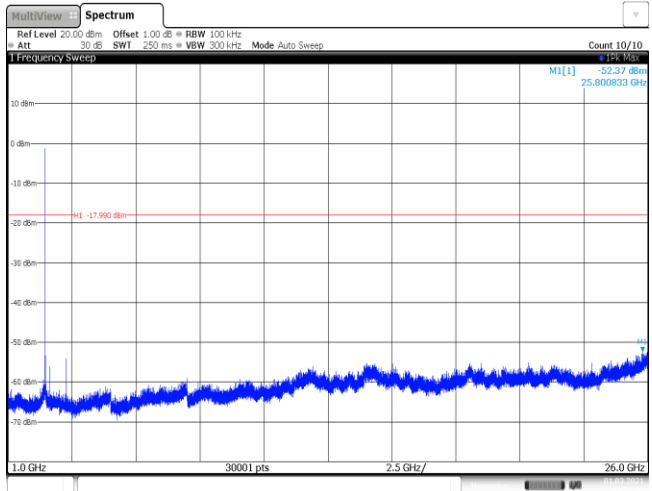


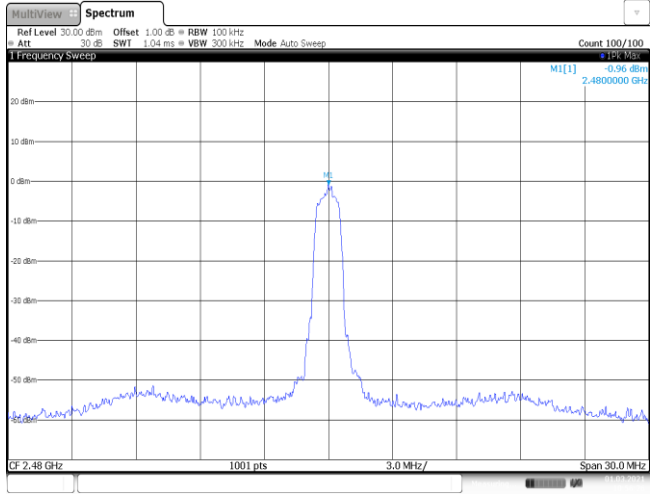
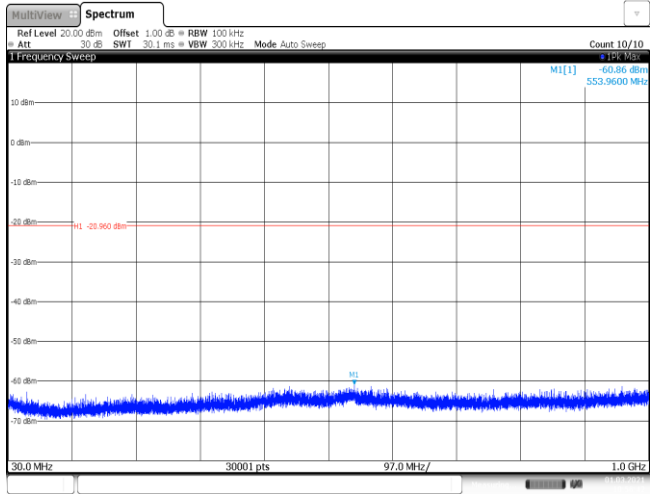
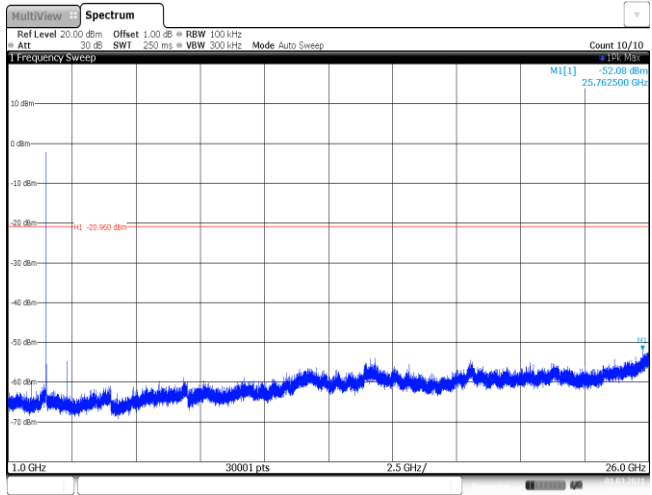
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<p>CH00 30MHz~1000MHz</p>	 <p>MultiView Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep                      Count 10/10                      Frequency Sweep                      M1[1] -60.89 dBm                      982.1360 MHz                      M1 -17.50 dBm                      30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz                      Date: 1 MAR 2021 10:29:20</p>		
<p>CH00 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                      Frequency Sweep                      M1[1] -52.11 dBm                      25.950833 GHz                      M1 -17.50 dBm                      1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz                      Date: 1 MAR 2021 10:29:26</p>		

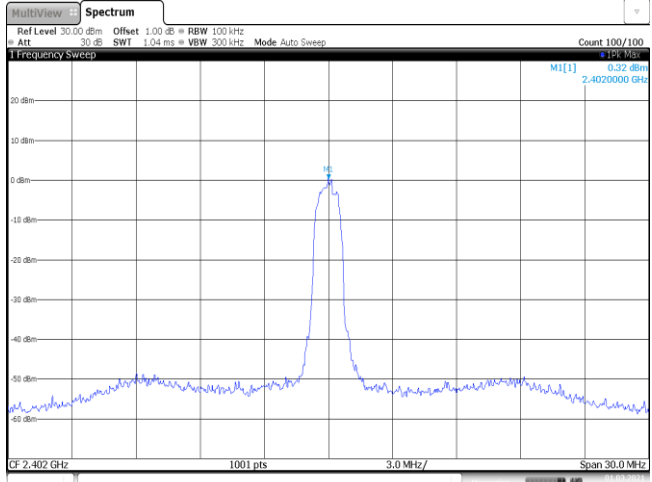
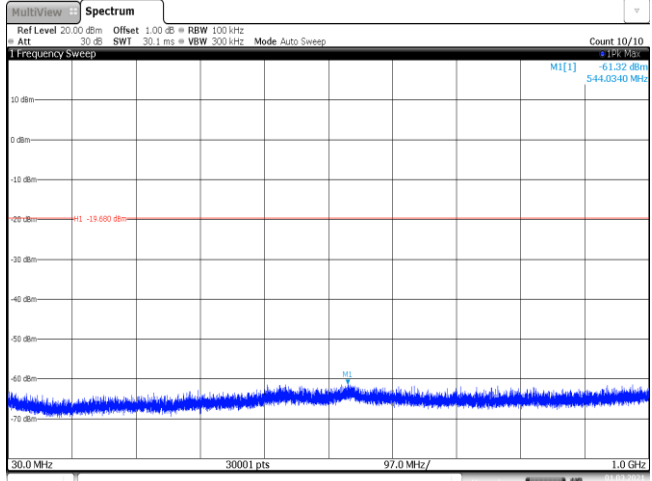
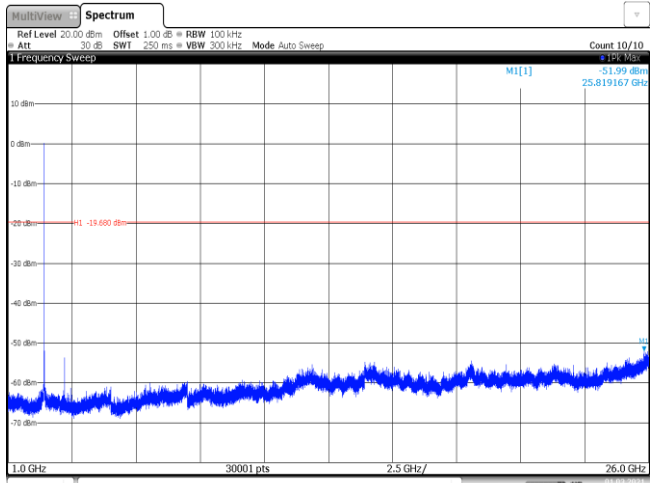
<p>CH39 Reference level</p>	<p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 3.13 dBm 2.4410000 GHz</p> <p>CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 1 MAR 2021 10:22:13</p>
<p>CH39 30MHz~1000MHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.00 dBm 553.8630 MHz</p> <p>M1 -15.670 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 1 MAR 2021 10:22:29</p>
<p>CH39 1GHz~26GHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.20 dBm 25.990000 GHz</p> <p>M1 -15.670 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 1 MAR 2021 10:22:45</p>

<p>CH78 Reference level</p>	<p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 2.58 dBm 2.480000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1 MAR 2021 10:25:45</p>
<p>CH78 30MHz~1000MHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -61.09 dBm 986.7920 MHz M1 -17.400 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1 MAR 2021 10:25:01</p>
<p>CH78 1GHz~26GHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.05 dBm 25.893333 GHz M1 -17.400 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1 MAR 2021 10:25:47</p>

Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Date: 1 MAR 2021 10:44:08</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 1 MAR 2021 10:44:25</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 1 MAR 2021 10:44:41</p>		

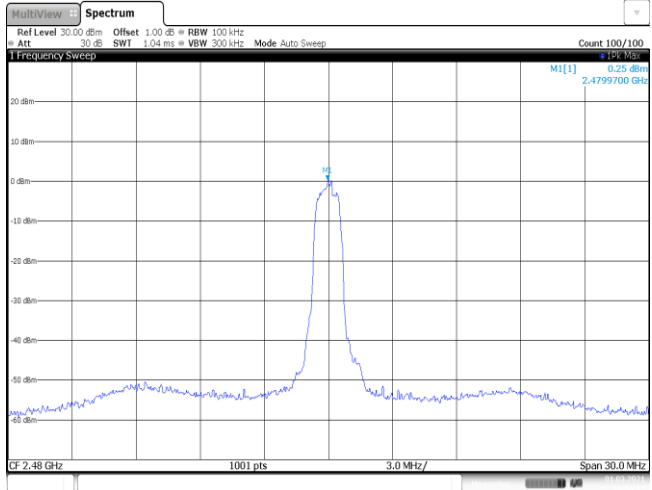
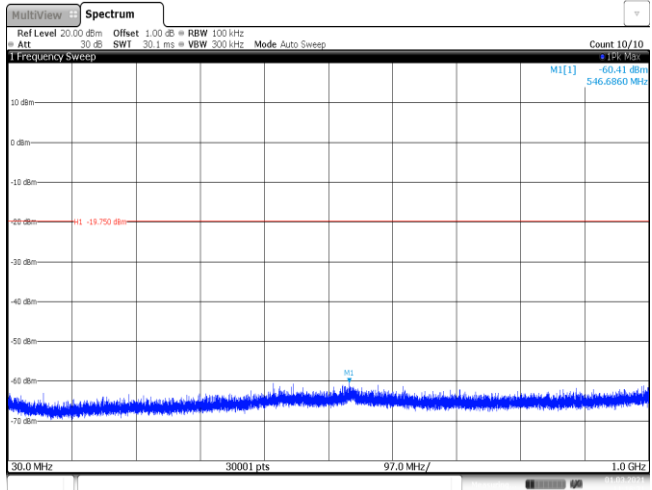
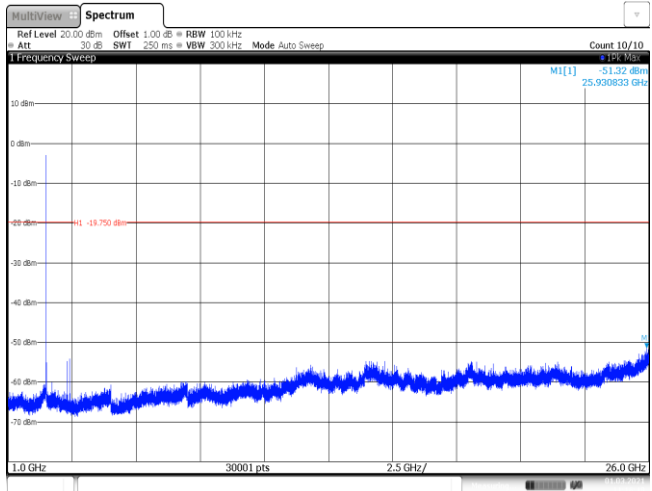
<p>CH39 Reference level</p>	 <p>MultiView Spectrum          Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz          Att -30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep          Count 100/100          1 Frequency Sweep          MI[1] 2.01 dBm          2.4410000 GHz          CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 13 MAR 2021 13:27:49</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] -60.37 dBm          554.8330 MHz          MI -17.990 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 13 MAR 2021 13:27:55</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] -52.37 dBm          25.800833 GHz          MI -17.990 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 13 MAR 2021 13:27:52</p>

<p>CH78 Reference level</p>	 <p>The spectrum plot shows a single sharp peak at 2.48 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The peak is labeled with a magnitude of -0.96 dBm. The plot includes technical parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWT 1.04 ms, VBW 300 kHz, Mode Auto Sweep, Count 100/100, and Date: 1 MAR 2021 10:56:25.</p>
<p>CH78 30MHz~1000MHz</p>	 <p>The spectrum plot shows a noise floor across the 30 MHz to 1000 MHz range. The y-axis ranges from -70 to 10 dBm. The x-axis ranges from 30.0 MHz to 1.0 GHz. A horizontal red line is drawn at -25.960 dBm. A small peak is labeled with a magnitude of -60.86 dBm at 553.9600 MHz. The plot includes technical parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWT 30.1 ms, VBW 300 kHz, Mode Auto Sweep, Count 10/10, and Date: 1 MAR 2021 10:56:41.</p>
<p>CH78 1GHz~26GHz</p>	 <p>The spectrum plot shows a noise floor across the 1 GHz to 26 GHz range. The y-axis ranges from -70 to 10 dBm. The x-axis ranges from 1.0 GHz to 26.0 GHz. A horizontal red line is drawn at -25.960 dBm. A small peak is labeled with a magnitude of -52.08 dBm at 25.762500 GHz. The plot includes technical parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWT 250 ms, VBW 300 kHz, Mode Auto Sweep, Count 10/10, and Date: 1 MAR 2021 10:56:58.</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] 0.32 dBm 2.402000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1 MAR 2021 11:07:59</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] -61.32 dBm 544.0340 MHz -19.680 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1 MAR 2021 11:08:16</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] -51.99 dBm 25.819167 GHz -19.680 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1 MAR 2021 11:08:22</p>		

<p>CH39 Reference level</p>	<p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 0.50 dBm 2.441200 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1 MAR 2021 11:13:16</p>
<p>CH39 30MHz~1000MHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.73 dBm 544.0020 MHz MI -19.500 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1 MAR 2021 11:13:32</p>
<p>CH39 1GHz~26GHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.29 dBm 25.907500 GHz MI -19.500 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1 MAR 2021 11:13:48</p>



<p>CH78 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 0.25 dBm 2.4799700 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1 MAR 2021 11:16:45</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -60.41 dBm 546.6860 MHz -19.750 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1 MAR 2021 11:16:31</p>
<p>CH78 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -51.32 dBm 25.990833 GHz -19.750 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1 MAR 2021 11:16:47</p>

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