

# APPENDIX REPORT

Project No.	SHT2103006601EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21030066004	Model No.	X60
Start test date	2021-03-09	Finish date	2021-03-09
Temperature	23.4°C	Humidity	39%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

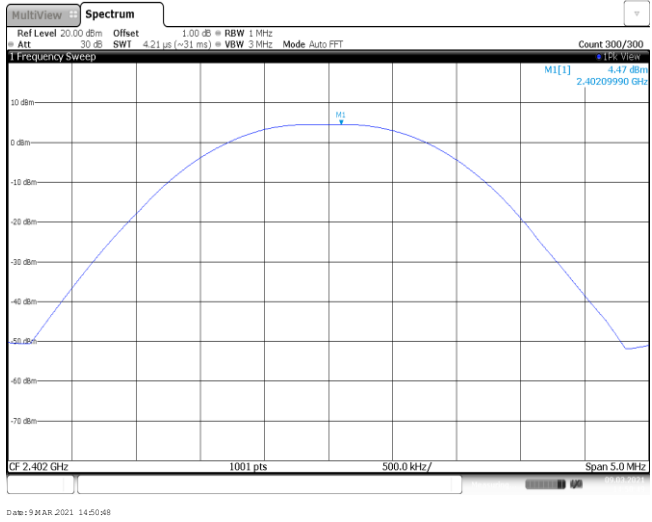
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

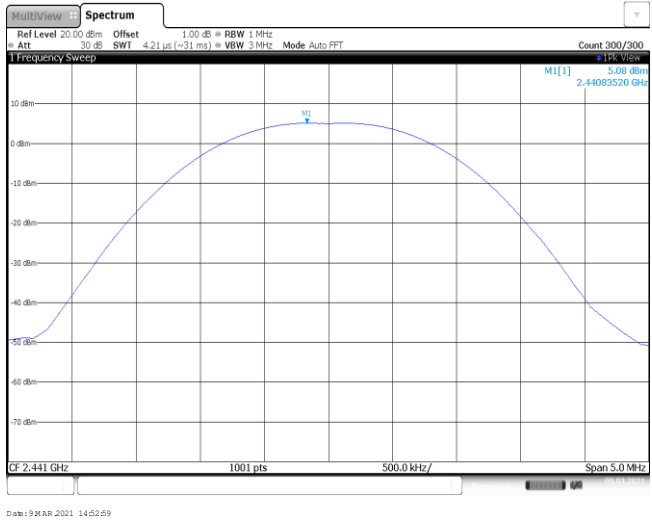
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	4.47	4.46	≤ 30.00	Pass
	39	5.08	5.06		
	78	4.19	4.18		
π/4DQPSK	00	5.03	4.34	≤ 21.00	Pass
	39	5.57	4.95		
	78	4.78	4.12		
8DPSK	00	5.45	4.66	≤ 21.00	Pass
	39	5.95	5.25		
	78	5.17	4.43		

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

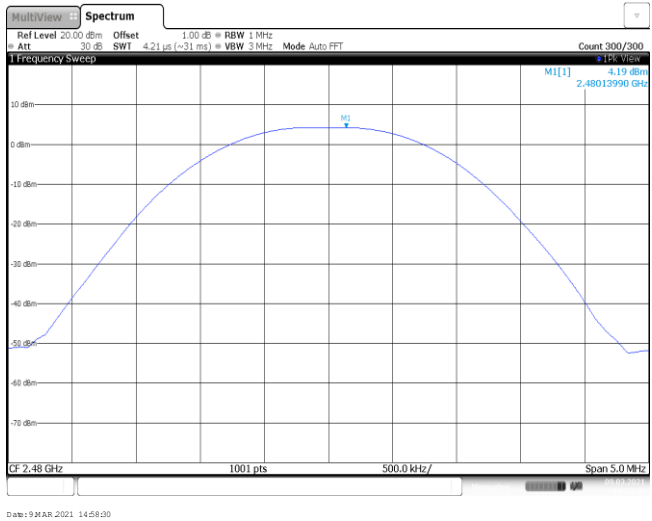
CH00



CH39

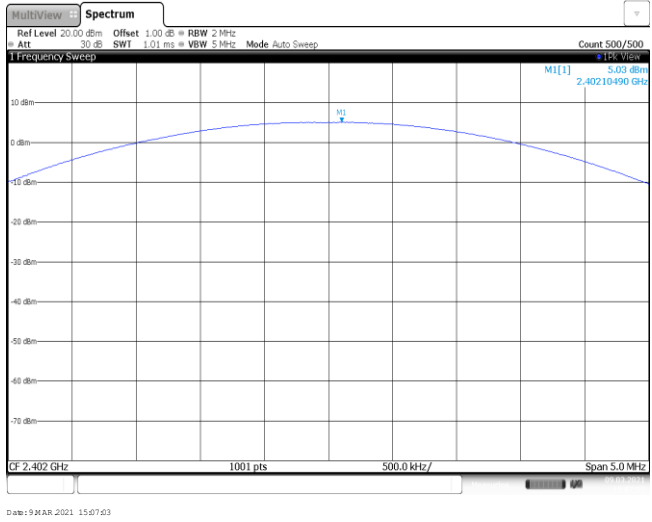


CH78



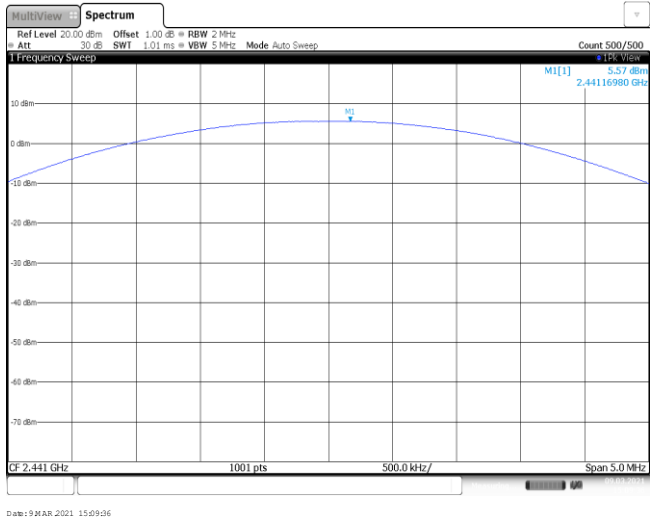
**Modulation Type:**  $\pi/4$ DQPSK

CH00



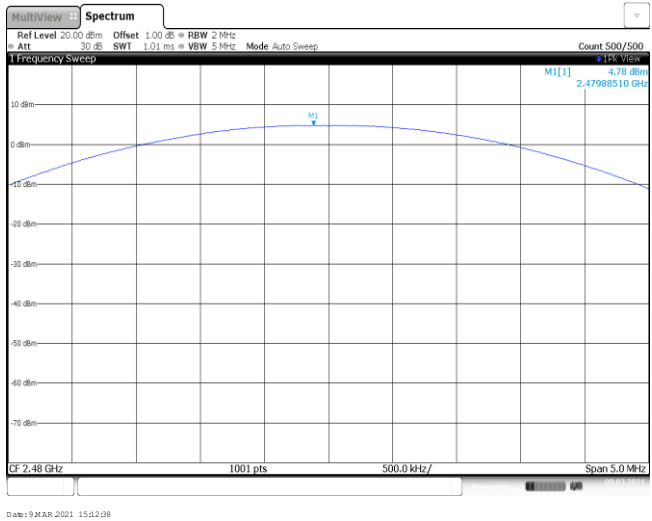
Date: 9 MAR 2021 15:07:03

CH39



Date: 9 MAR 2021 15:09:06

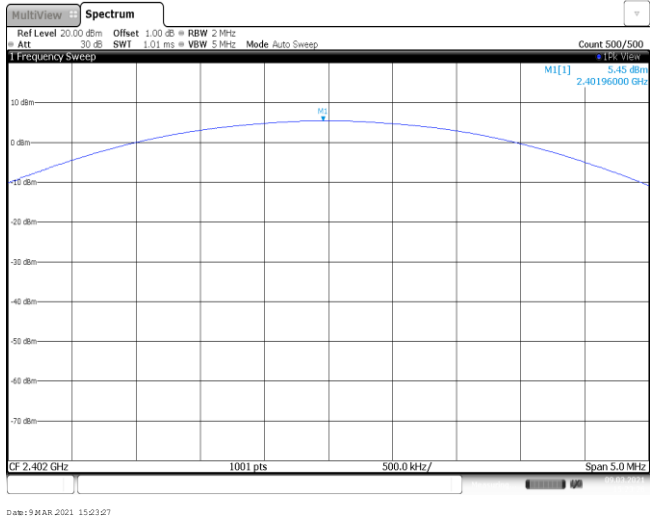
CH78



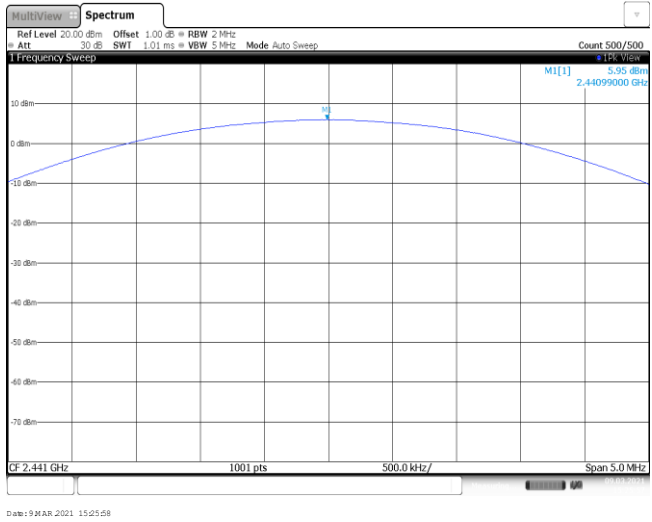
Date: 9 MAR 2021 15:12:08

**Modulation Type: 8DPSK**

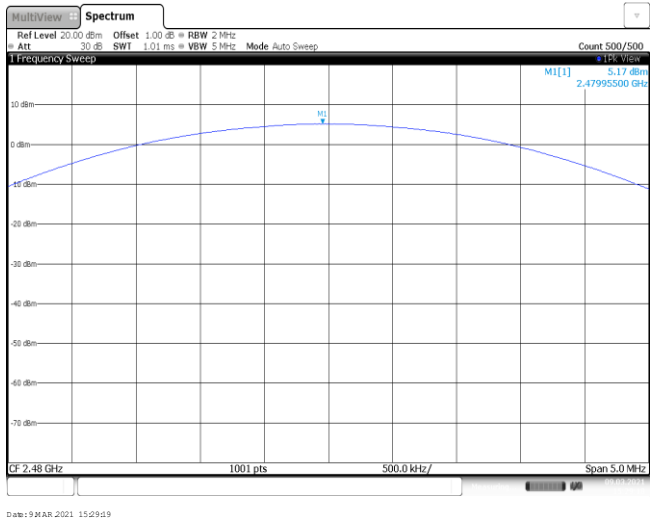
CH00



CH39



CH78

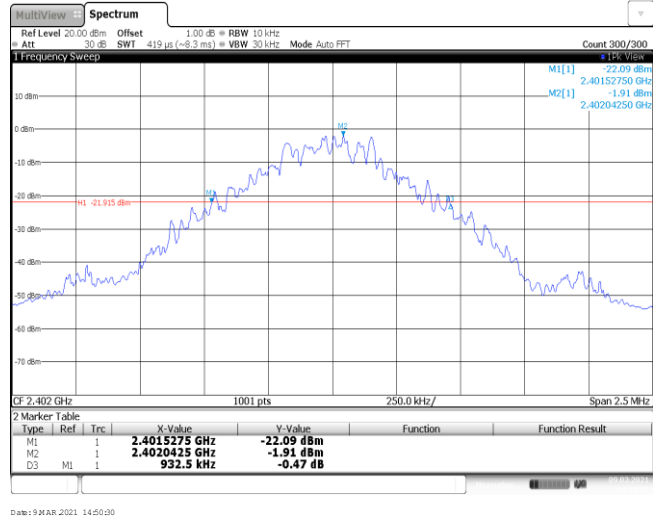


**Appendix B : 20 dB Bandwidth**

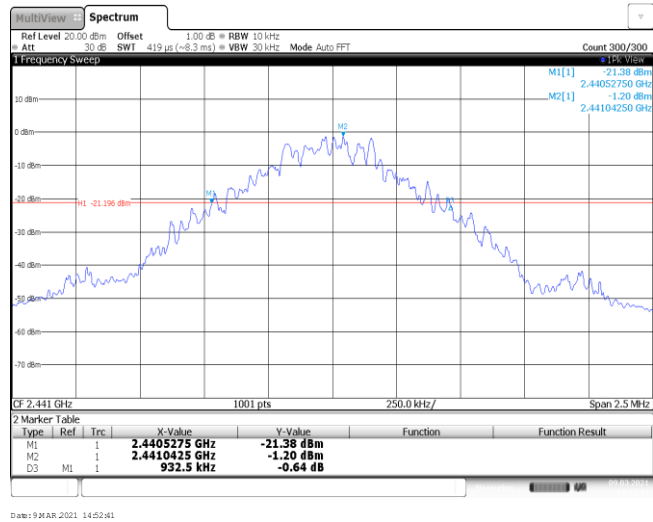
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	932.50	-	Pass
	39	932.50		
	78	935.00		
$\pi/4$ DQPSK	00	1292.50	-	Pass
	39	1290.00		
	78	1290.00		
8DPSK	00	1297.50	-	Pass
	39	1297.50		
	78	1302.50		

**Modulation Type: GFSK**

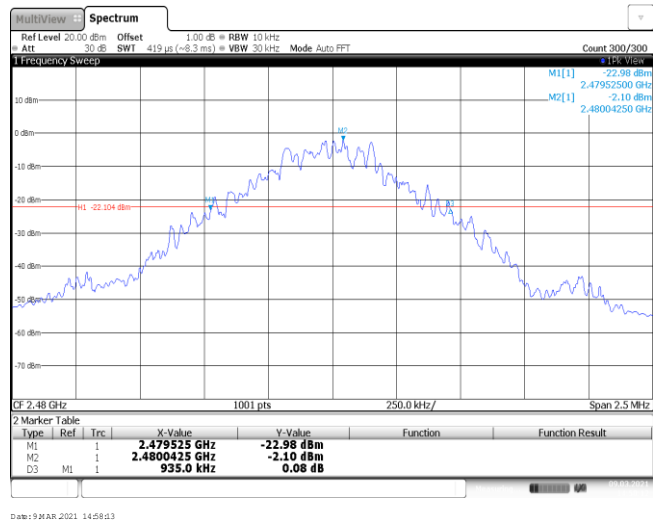
CH00



CH39

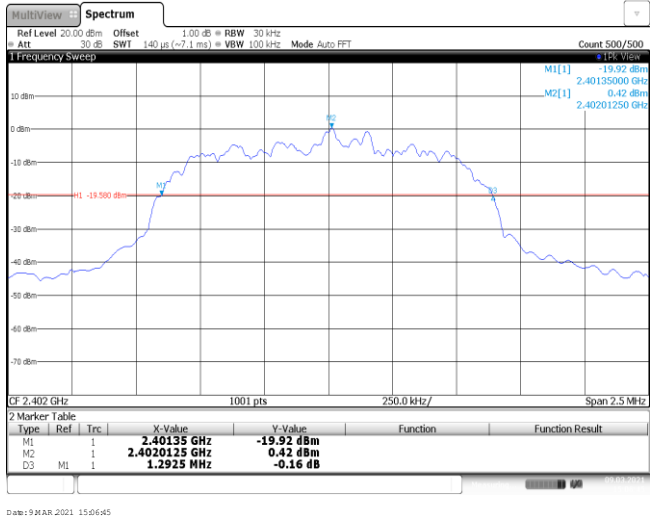


CH78

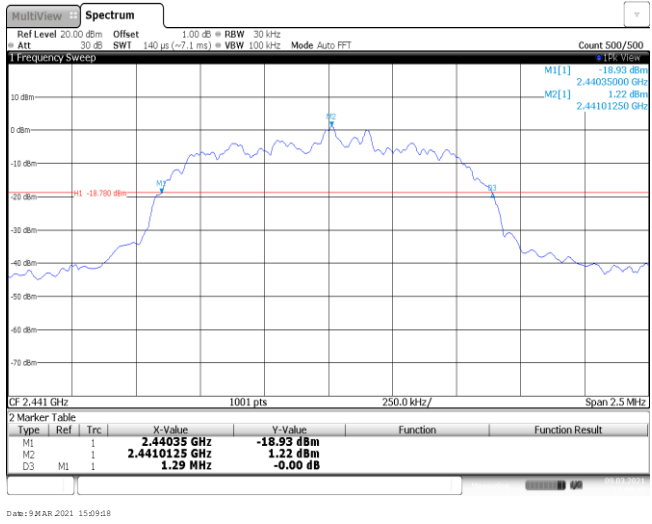


**Modulation Type:**  $\pi/4$ DQPSK

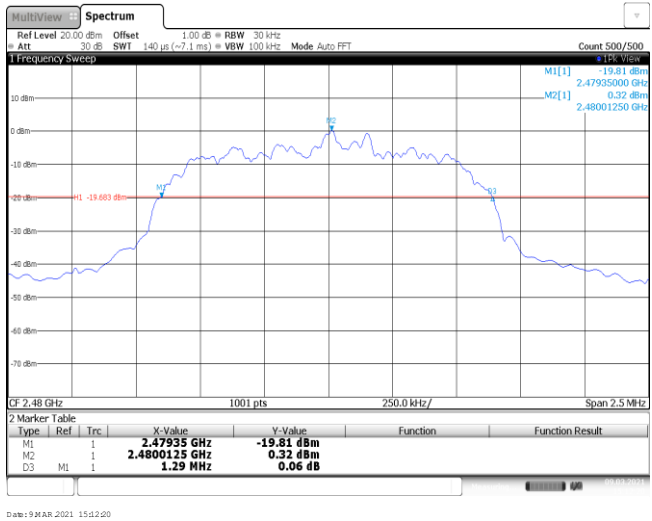
CH00



CH39



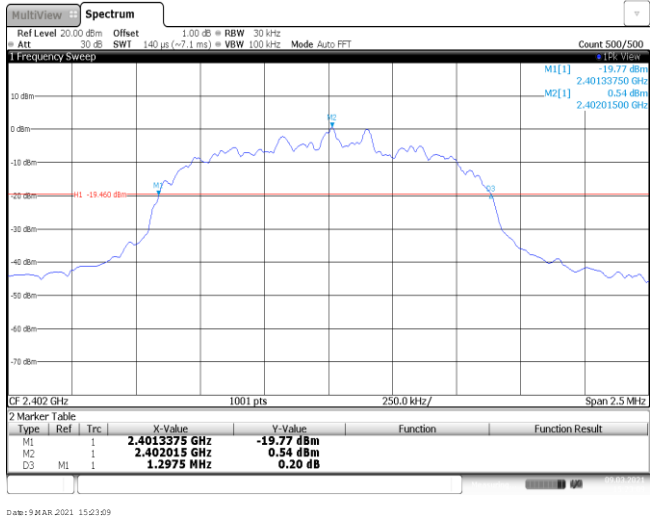
CH78



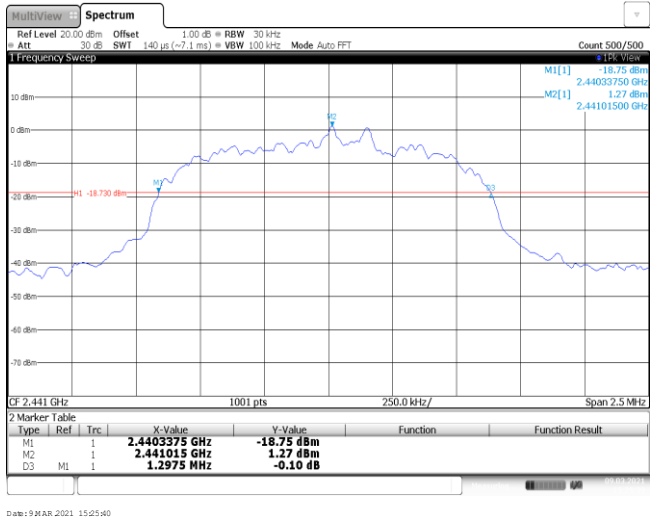


**Modulation Type: 8DPSK**

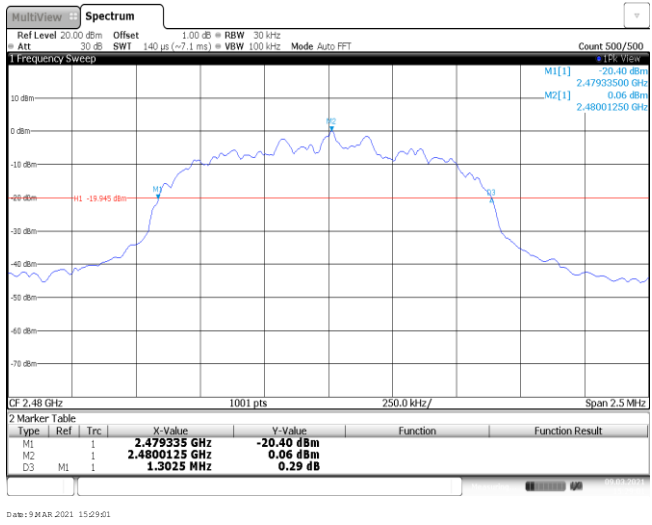
CH00



CH39



CH78

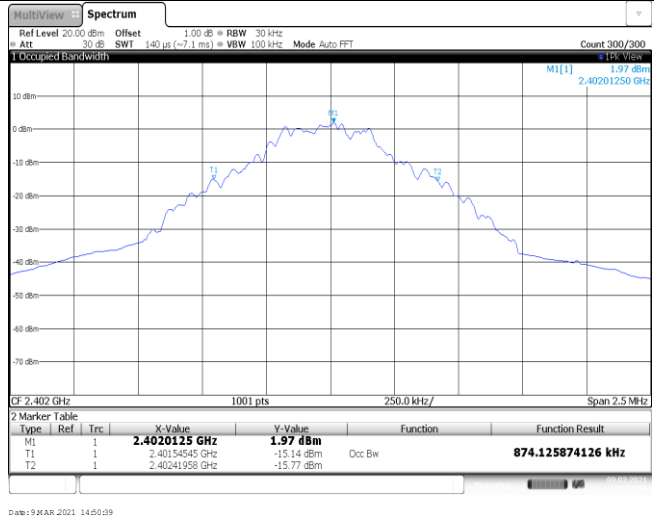


**Appendix C: 99% Occupied Bandwidth**

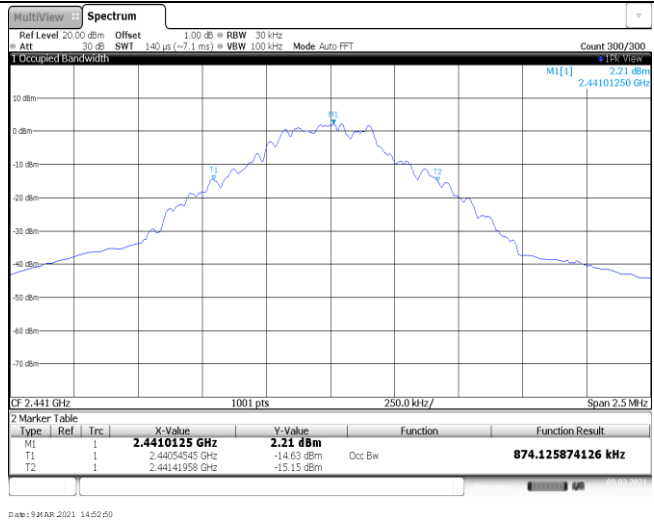
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.87	-	Pass
	39	0.87		
	78	0.88		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.19		
8DPSK	00	1.18	-	Pass
	39	1.19		
	78	1.19		

**Modulation Type: GFSK**

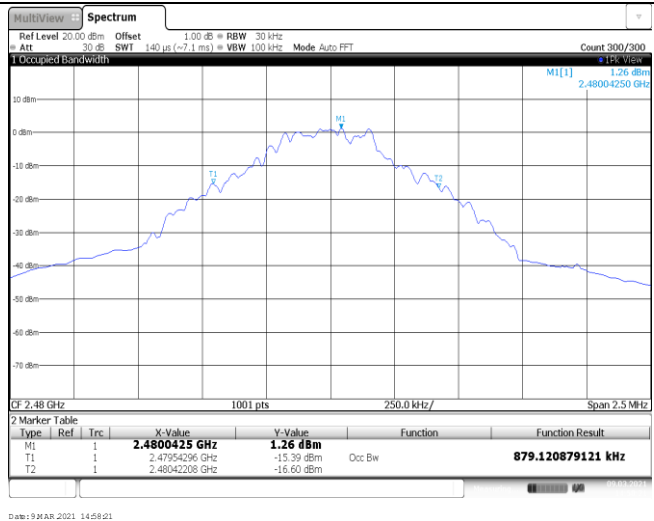
CH00



CH39

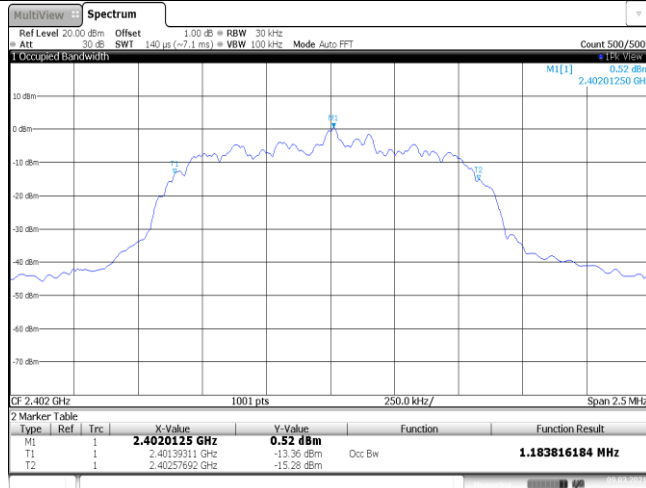


CH78



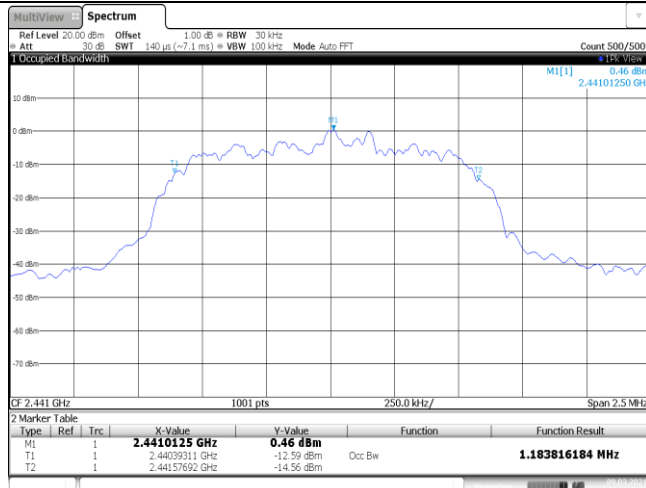
**Modulation Type:**  $\pi/4$ DQPSK

CH00



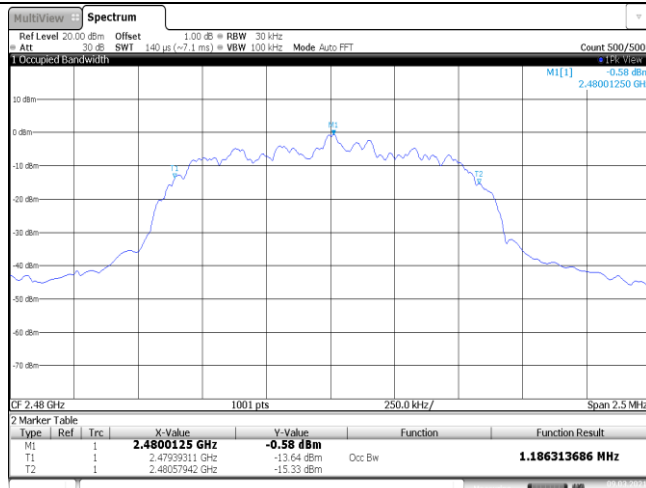
Date: 9 MAR 2021 15:06:53

CH39



Date: 9 MAR 2021 15:09:27

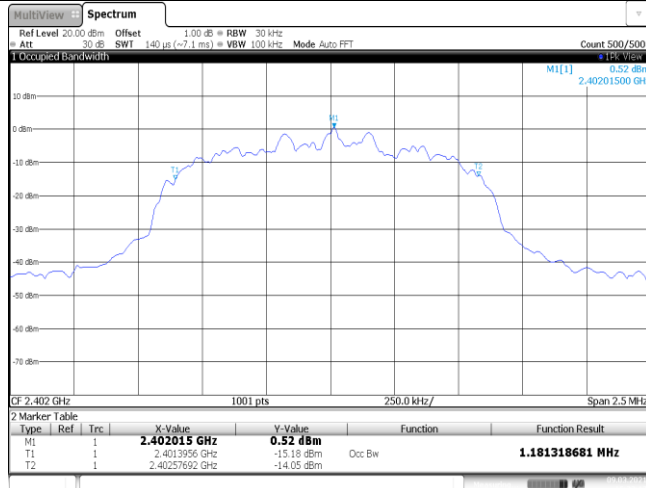
CH78



Date: 9 MAR 2021 15:12:28

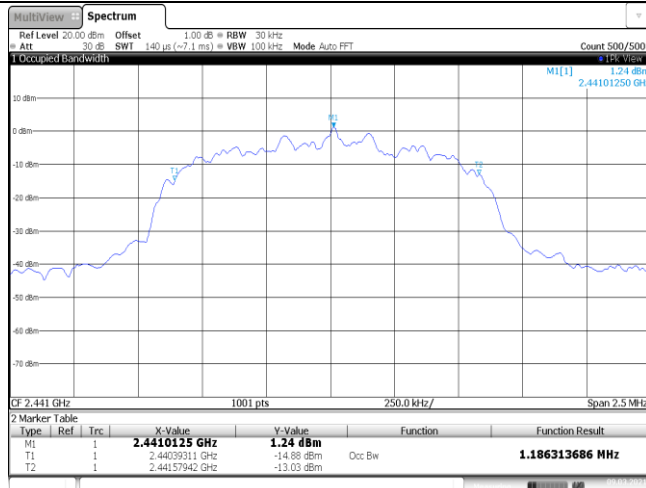
**Modulation Type: 8DPSK**

CH00



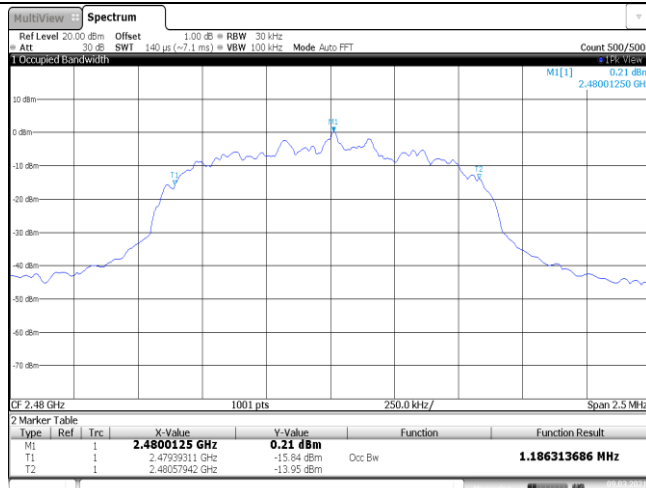
Date: 9 MAR 2021 15:23:17

CH39



Date: 9 MAR 2021 15:25:48

CH78



Date: 9 MAR 2021 15:29:10

**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥935.00	Pass
$\pi/4$ DQPSK	39	1.00	≥861.67	Pass
8DPSK	39	1.00	≥868.33	Pass

**Note:**

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

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

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

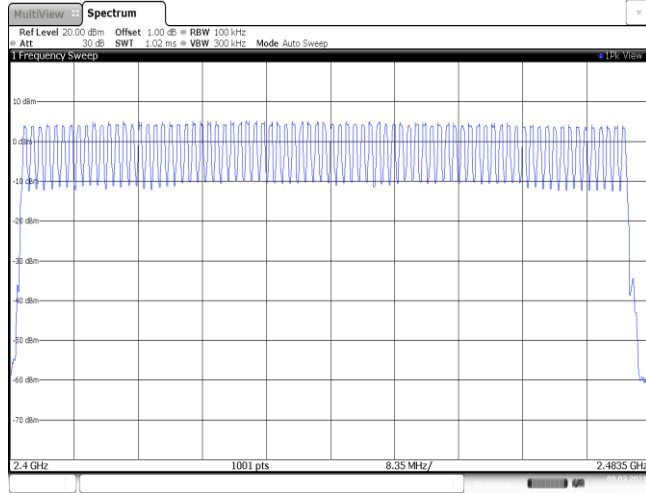
<p style="text-align: center;">GFSK</p>	
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	
<p style="text-align: center;">8DPSK</p>	

**Appendix E: Hopping Channel Number**

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

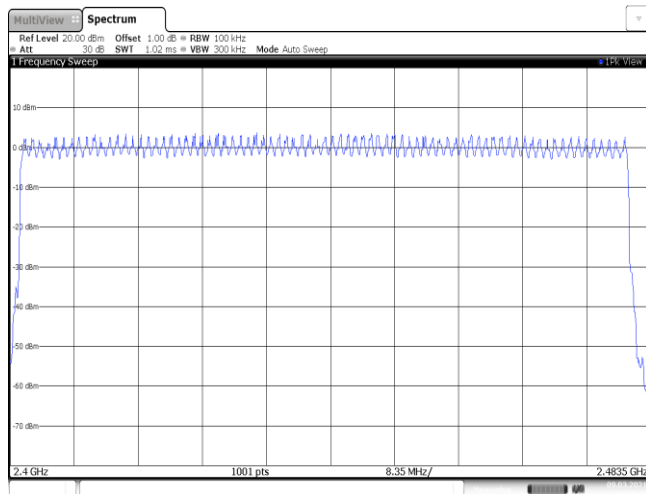


GFSK



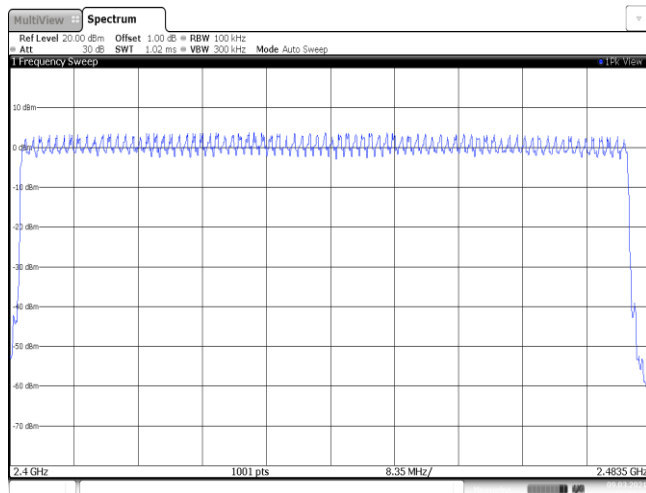
Date: 9 MAR 2021 15:04:06

$\pi/4$ DQPSK



Date: 9 MAR 2021 15:19:26

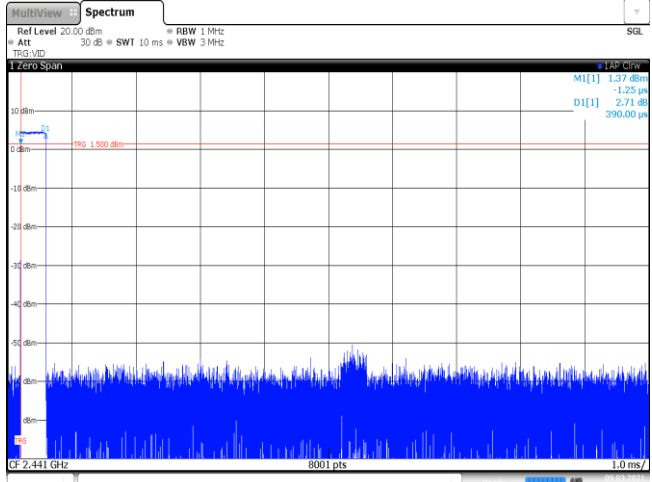
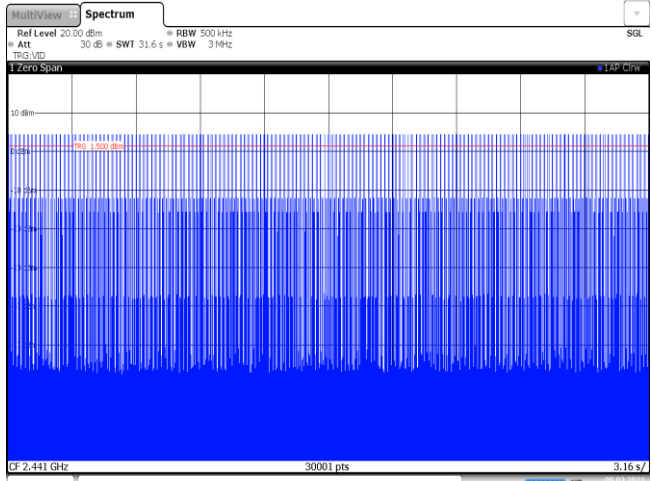
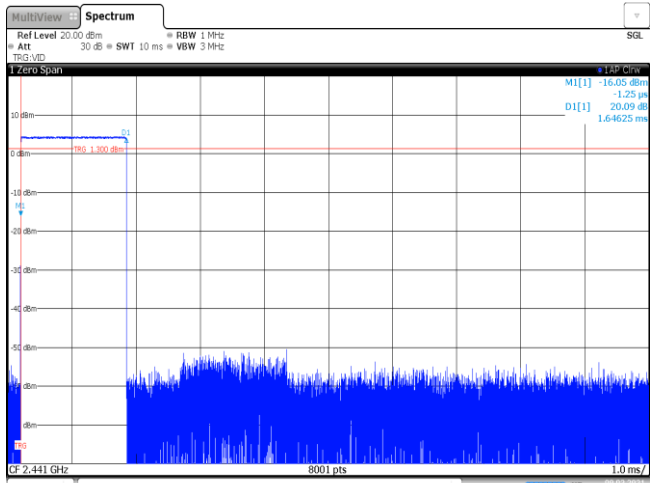
8DPSK

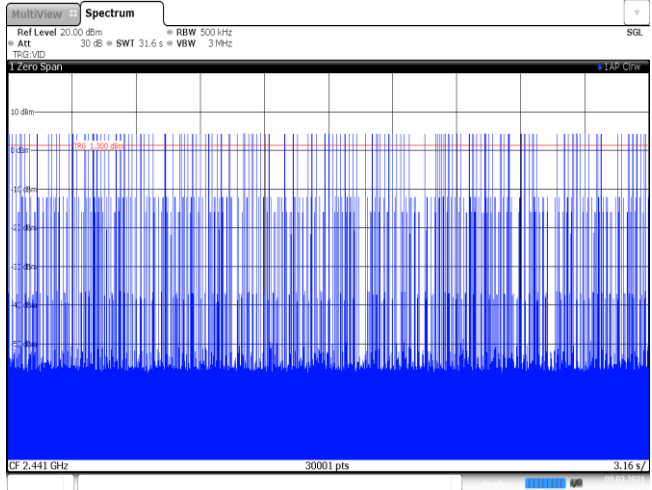
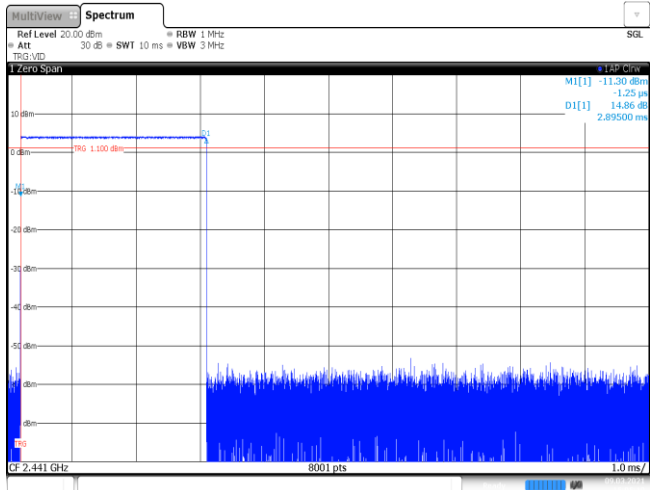
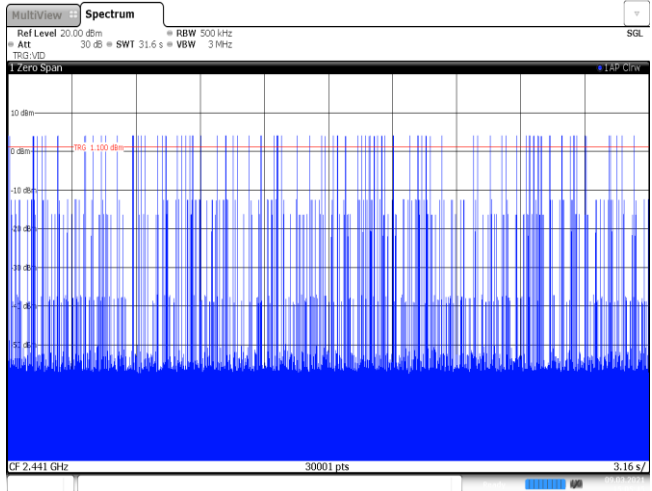


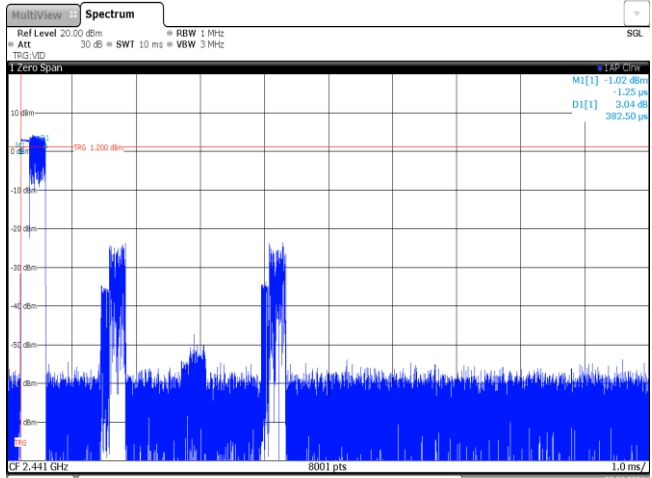
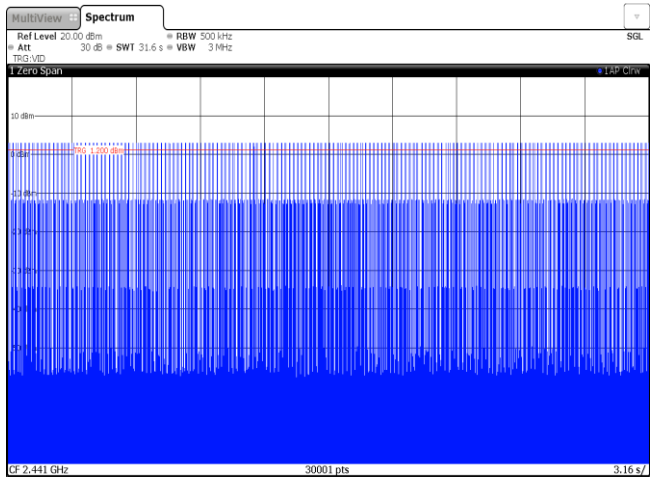
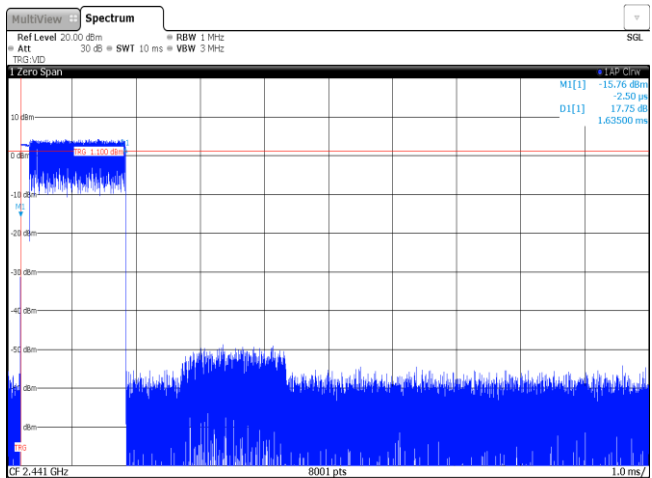
Date: 9 MAR 2021 15:37:25

**Appendix F: Dwell Time**

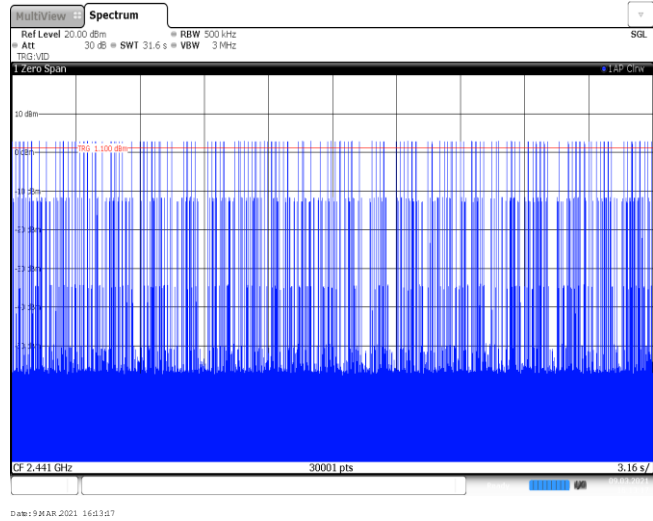
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	321	0.13	≤ 0.40	Pass
	DH3	1.65	161	0.27		
	DH5	2.90	98	0.28		
π/4DQPSK	2DH1	0.38	319	0.12	≤ 0.40	Pass
	2DH3	1.64	164	0.27		
	2DH5	2.88	112	0.32		
8DPSK	3DH1	0.38	320	0.12	≤ 0.40	Pass
	3DH3	1.63	170	0.28		
	3DH5	2.88	103	0.30		

Modulation Type:	GFSK
<p>DH1 Burst width</p>	 <p>The plot shows a spectrum with a red trace indicating a burst width. The y-axis is labeled from -50 dBm to 10 dBm. The x-axis is labeled 'CF 2.441 GHz' and '8001 pts'. A red horizontal line is drawn at approximately 0 dBm. A blue trace shows a signal burst. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 10 ms, RBW 1 MHz, VBW 3 MHz. Measurement data on the right shows M[1] 1.57 dBm, D1[1] 2.71 dB, and a duration of 390.00 µs.</p>
<p>DH1 Burst number</p>	 <p>The plot shows a spectrum with a red trace indicating burst number. The y-axis is labeled from -50 dBm to 10 dBm. The x-axis is labeled 'CF 2.441 GHz' and '30001 pts'. A red horizontal line is drawn at approximately 0 dBm. The plot shows a dense series of vertical lines representing bursts. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 31.6 s, RBW 500 kHz, VBW 3 MHz.</p>
<p>DH3 Burst width</p>	 <p>The plot shows a spectrum with a red trace indicating burst width. The y-axis is labeled from -50 dBm to 10 dBm. The x-axis is labeled 'CF 2.441 GHz' and '8001 pts'. A red horizontal line is drawn at approximately 0 dBm. A blue trace shows a signal burst. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 10 ms, RBW 1 MHz, VBW 3 MHz. Measurement data on the right shows M[1] -16.05 dBm, D1[1] 20.09 dB, and a duration of 1.64625 ms.</p>

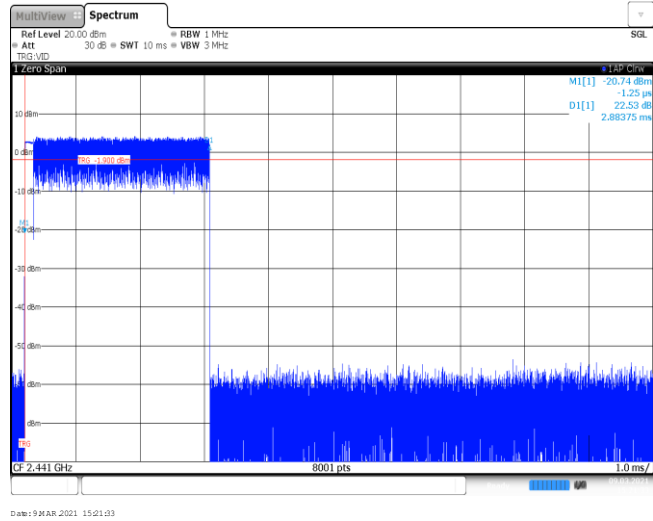
<p>DH3 Burst number</p>	
<p>DH5 Burst width</p>	
<p>DH5 Burst number</p>	

Modulation Type:	$\pi/4$ DQPSK
<p>2DH1 Burst width</p>	 <p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz</p> <p>M[1] -1.02 dBm D1[1] 3.04 dB 382.50 μs</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 9 MAR 2021 16:11:32</p>
<p>2DH1 Burst number</p>	 <p>Ref Level 20.00 dBm    RBW 500 kHz Att 30 dB    SWT 31.6 s    VBW 3 MHz</p> <p>M[1] -1.02 dBm D1[1] 3.04 dB 382.50 μs</p> <p>CF 2.441 GHz    30001 pts    3.16 s/</p> <p>Date: 9 MAR 2021 16:12:06</p>
<p>2DH3 Burst width</p>	 <p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz</p> <p>M[1] -15.76 dBm D1[1] 17.75 dB 1.63500 ms</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 9 MAR 2021 16:12:43</p>

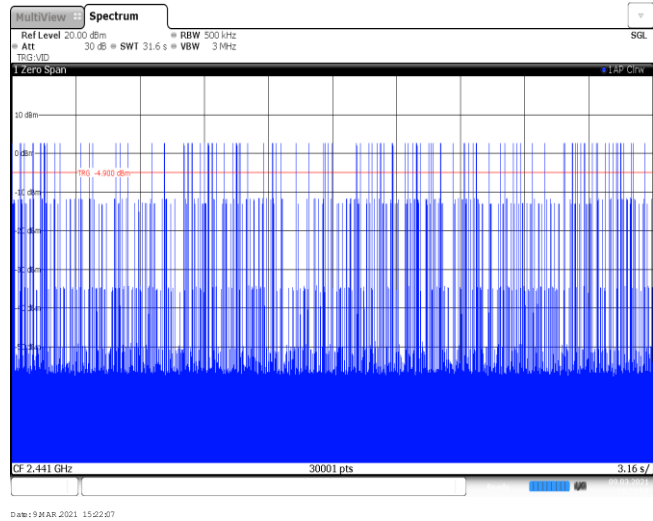
2DH3  
Burst number



2DH5  
Burst width

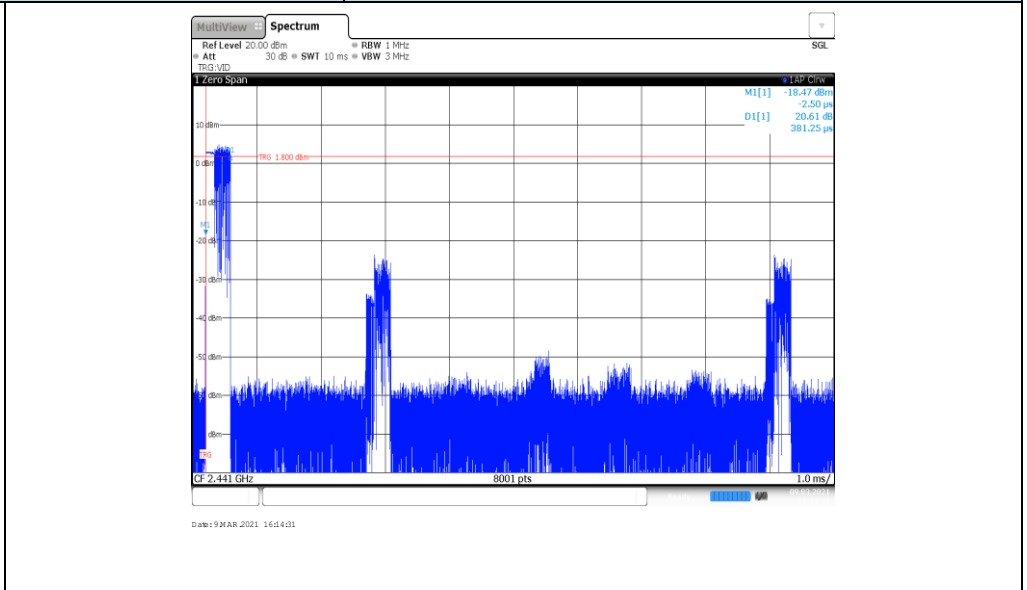


2DH5  
Burst number

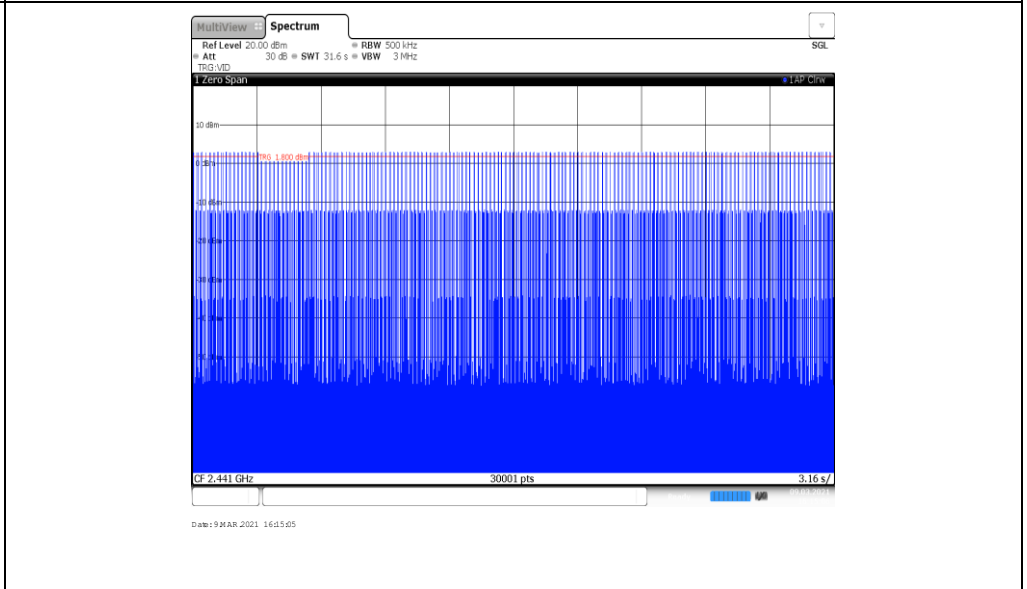


**Modulation Type: 8DPSK**

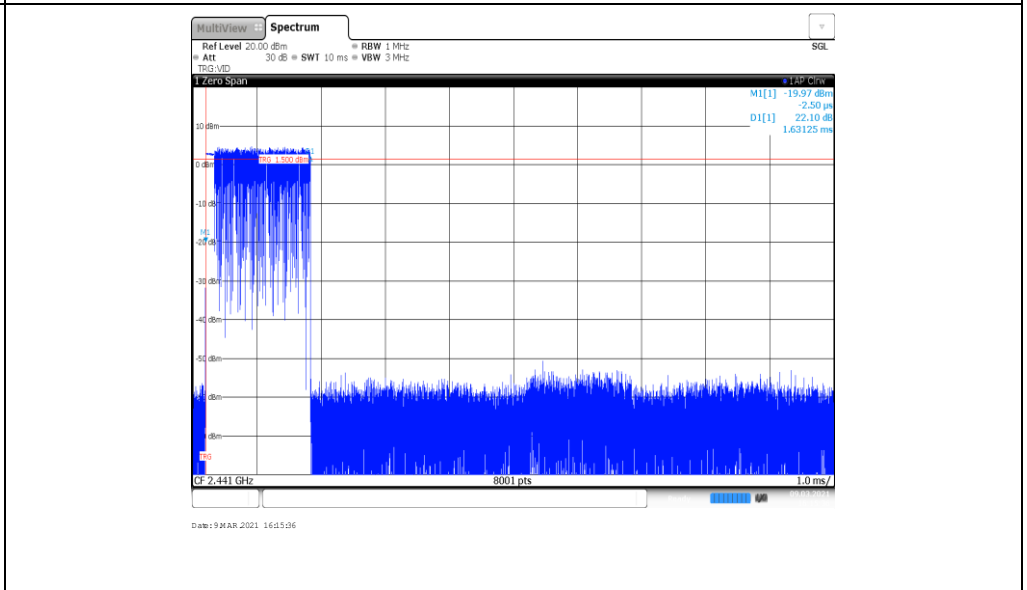
3DH1  
Burst width



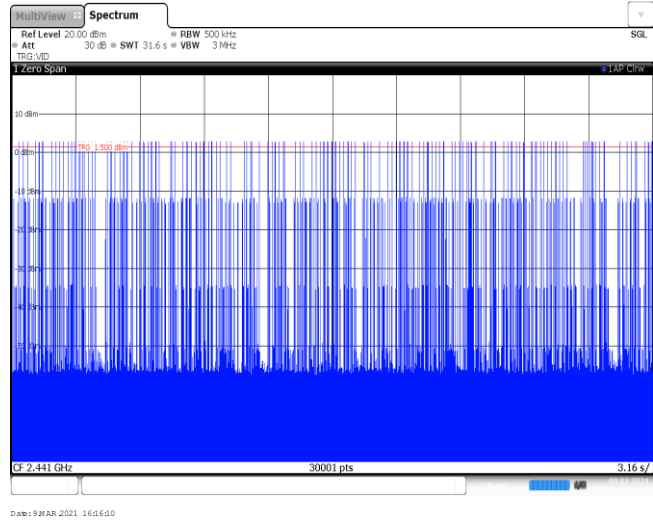
3DH1  
Burst number



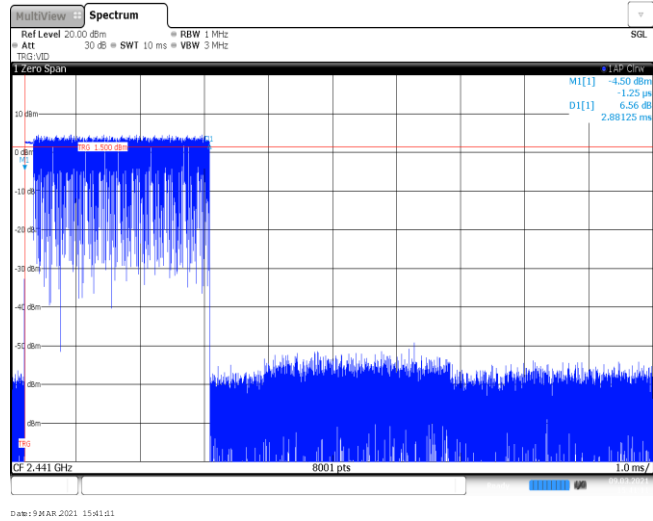
3DH3  
Burst width



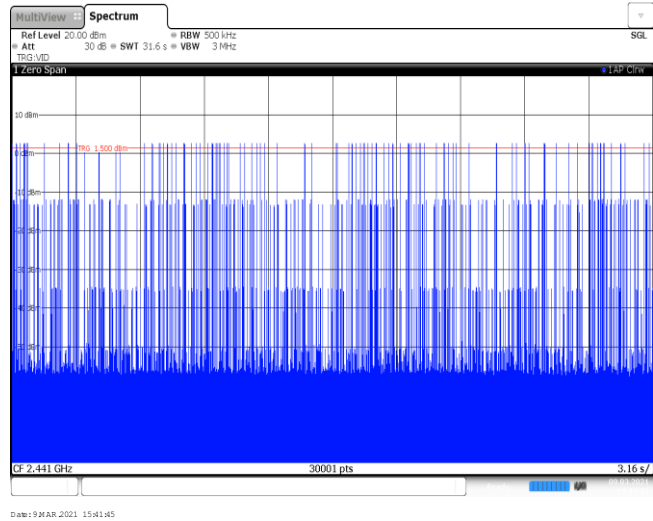
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

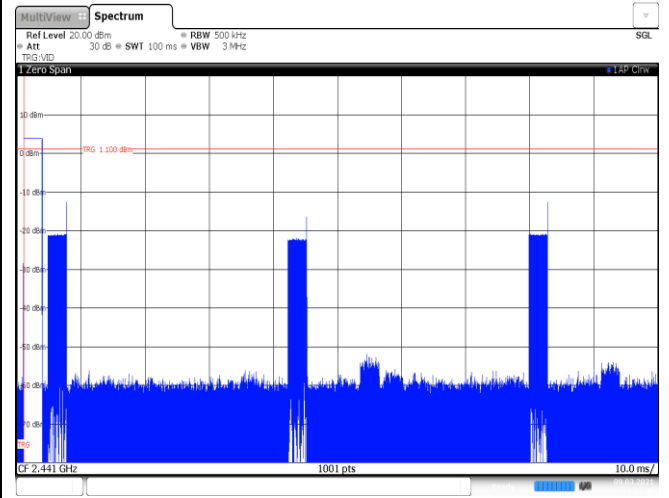
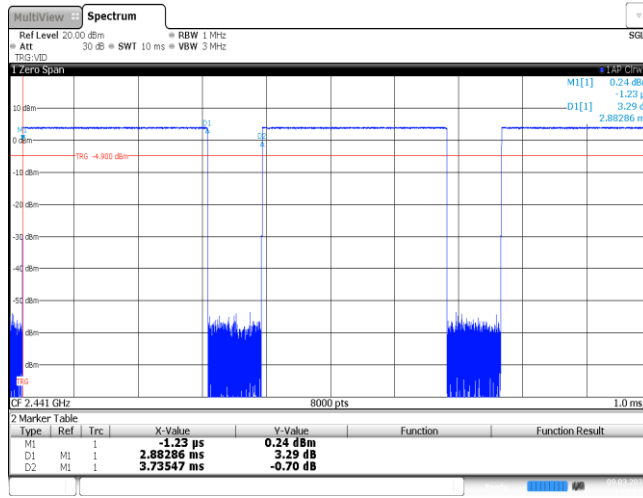




**Appendix G: Duty Cycle Correction Factor (DCCF)**

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	2.88	100	4	-18.77
$\pi/4$ DQPSK	2441	2.87	100	1	-30.84
8DPSK	2441	2.87	100	3	-21.30

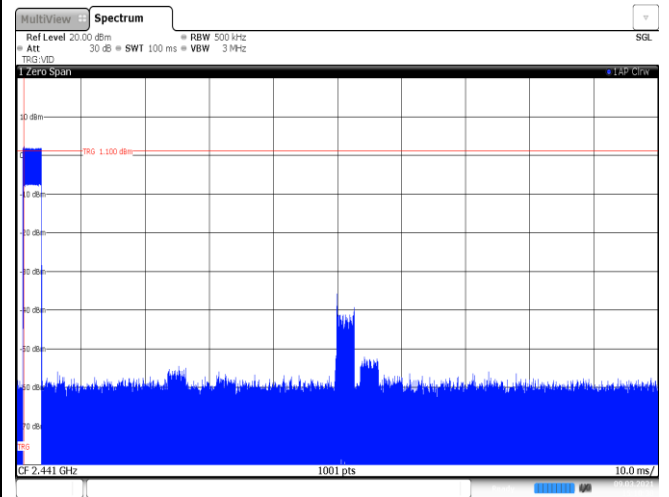
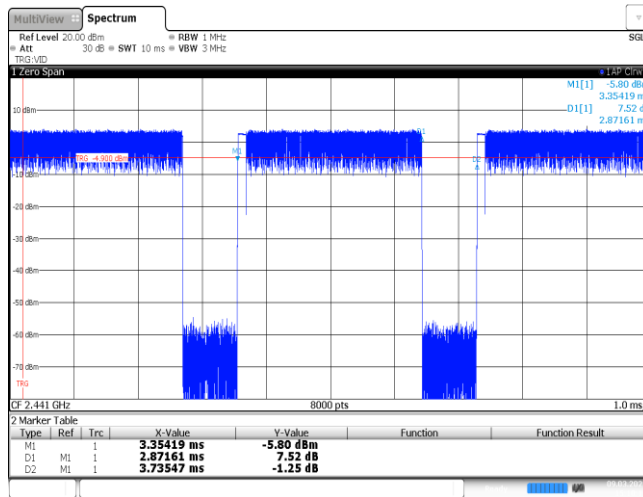
GFSK



Ton time for single burst

Burst Quantity

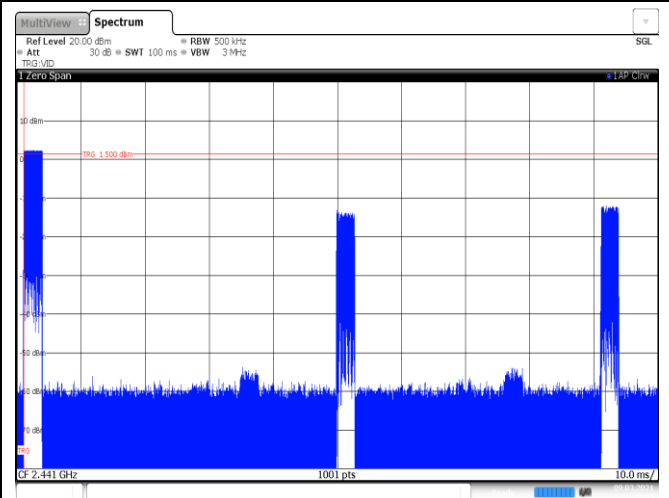
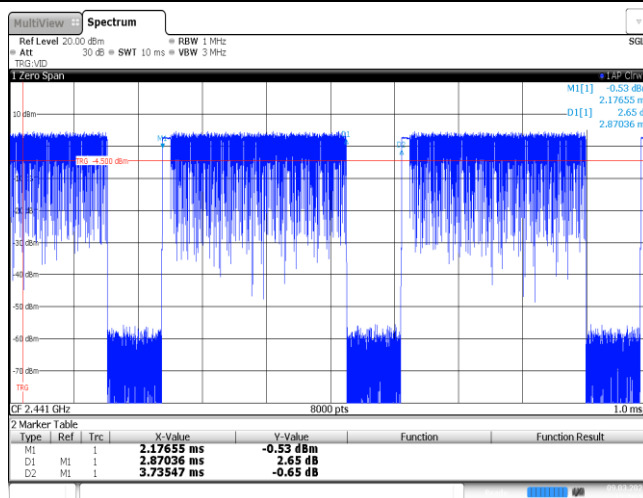
$\pi/4$  DQPSK



Ton time for single burst

Burst Quantity

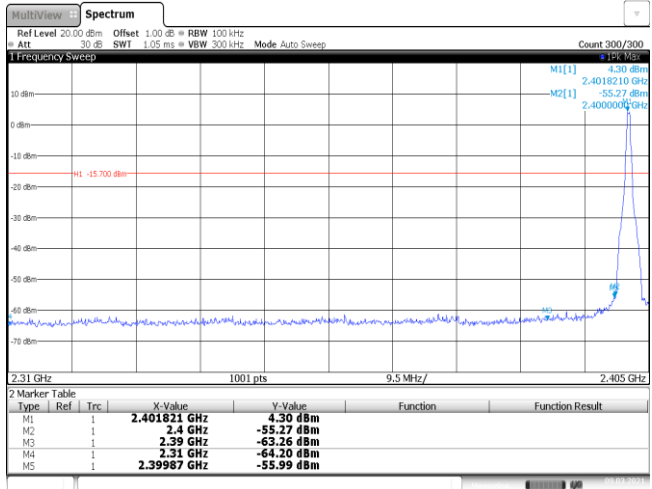
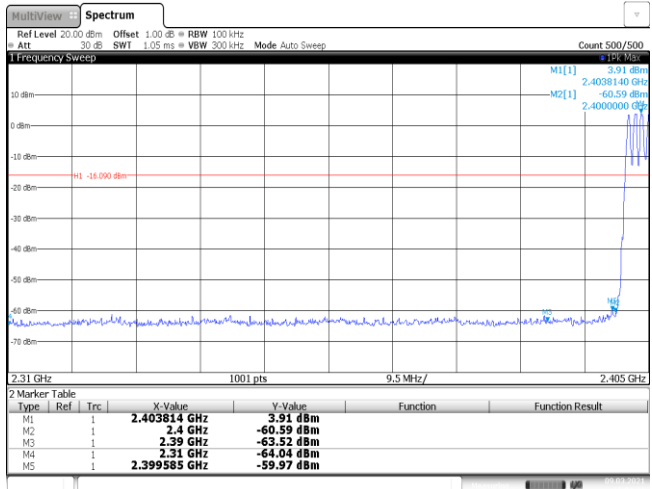
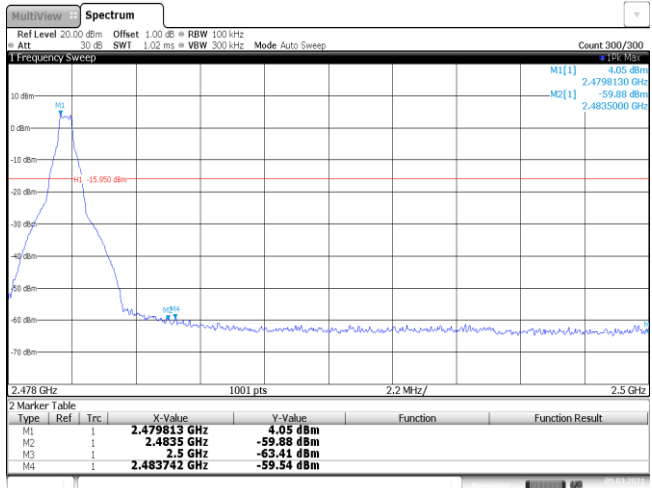
8DPSK



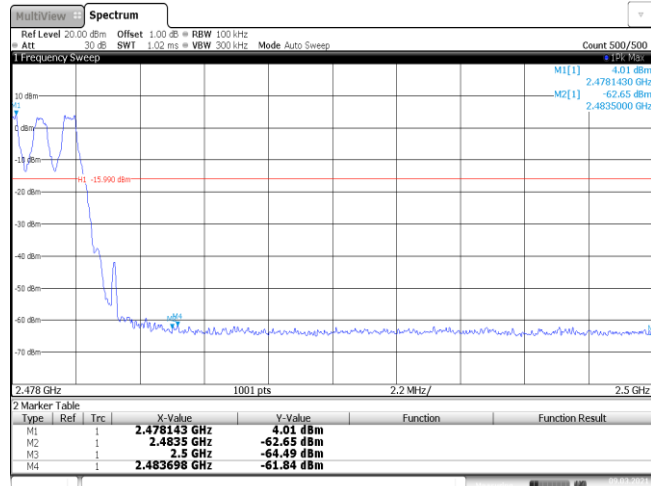
Ton time for single burst

Burst Quantity

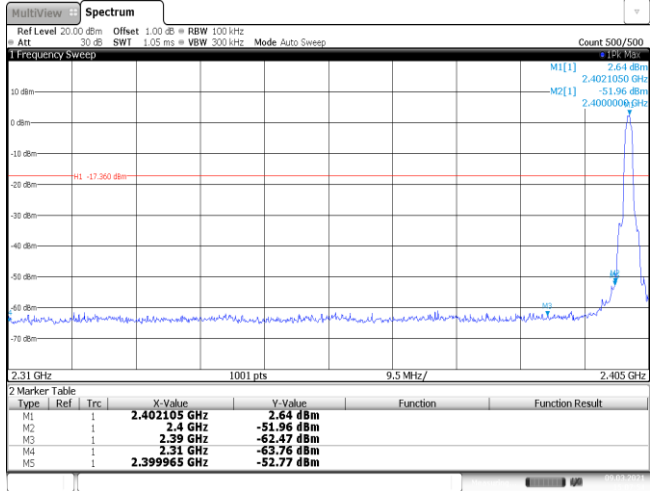
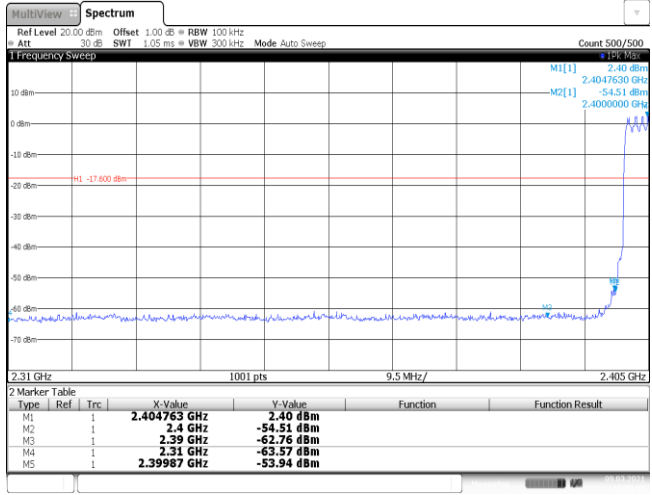
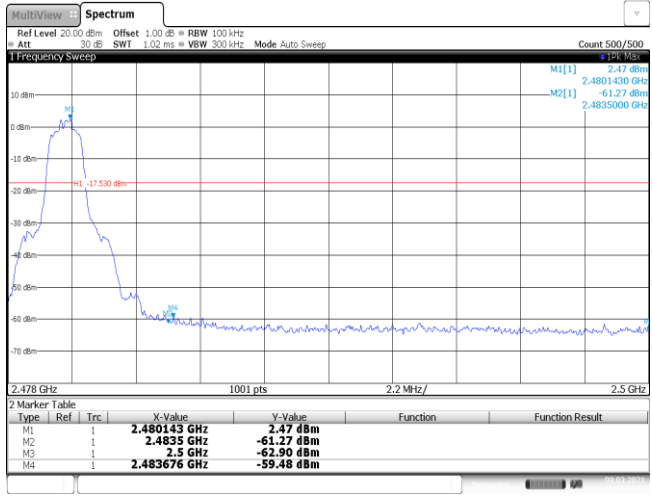
**Appendix H: Band edge and Spurious Emissions (conducted)**

Test Item:	Band edge	Modulation type:	GFSK
<p>CH00 No hopping mode</p>			
<p>CH00 Hopping mode</p>			
<p>CH78 No hopping mode</p>			

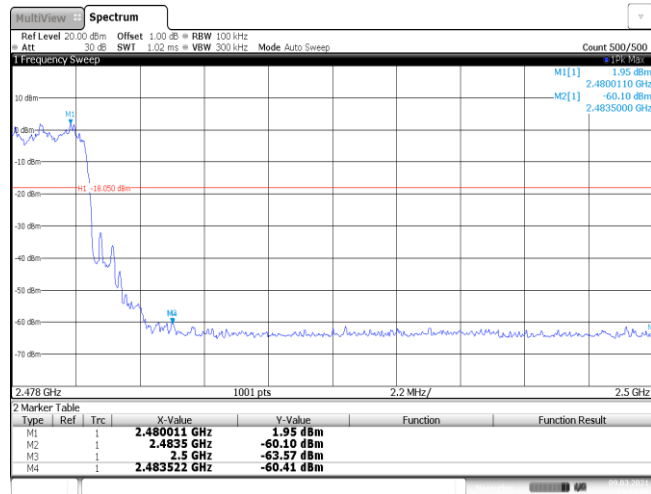
CH78  
Hopping mode



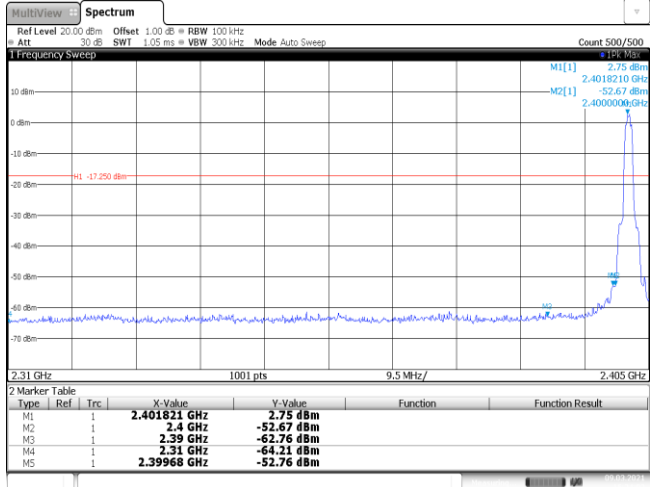
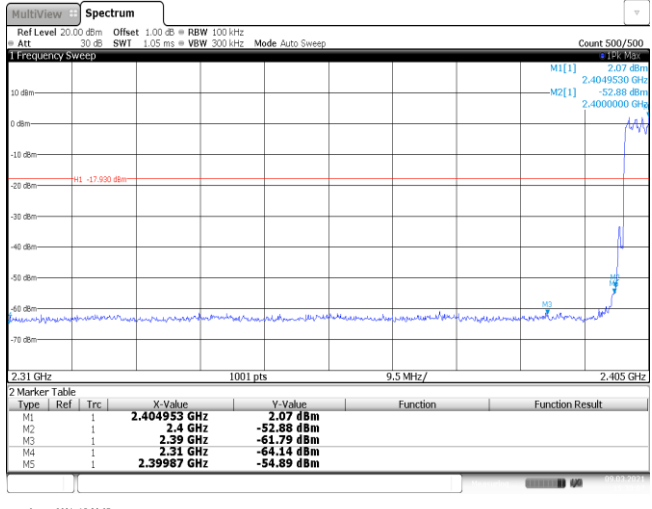
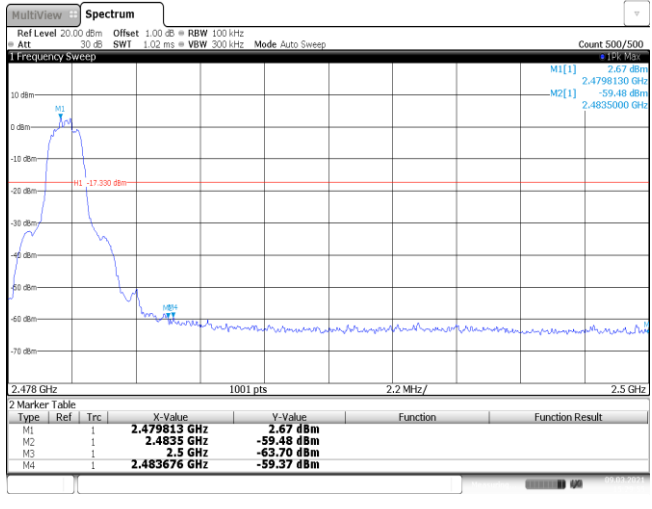
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Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="683 645 1337 734"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</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>2.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-51.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-52.77 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9 MAR 2021 15:07:54</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	2.64 dBm			M2	1		2.4 GHz	-51.96 dBm			M3	1		2.39 GHz	-62.47 dBm			M4	1		2.31 GHz	-63.76 dBm			M5	1		2.399965 GHz	-52.77 dBm		
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1742 1337 1832"> <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>2.480143 GHz</td> <td>2.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-61.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483676 GHz</td> <td>-59.48 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9 MAR 2021 15:13:41</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480143 GHz	2.47 dBm			M2	1		2.4835 GHz	-61.27 dBm			M3	1		2.5 GHz	-62.90 dBm			M4	1		2.483676 GHz	-59.48 dBm									
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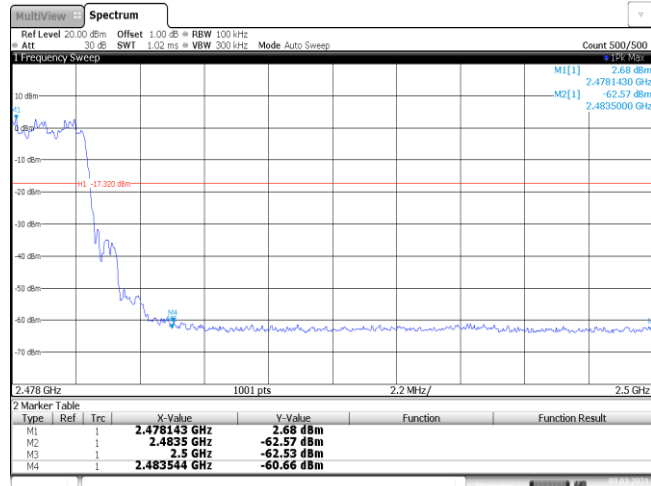
CH78  
Hopping mode



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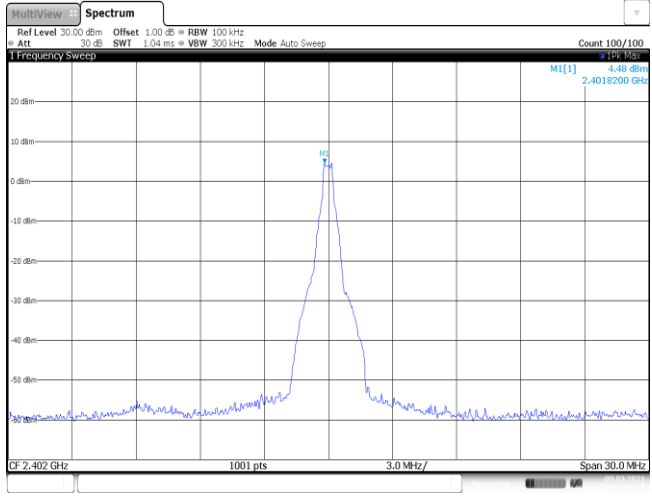
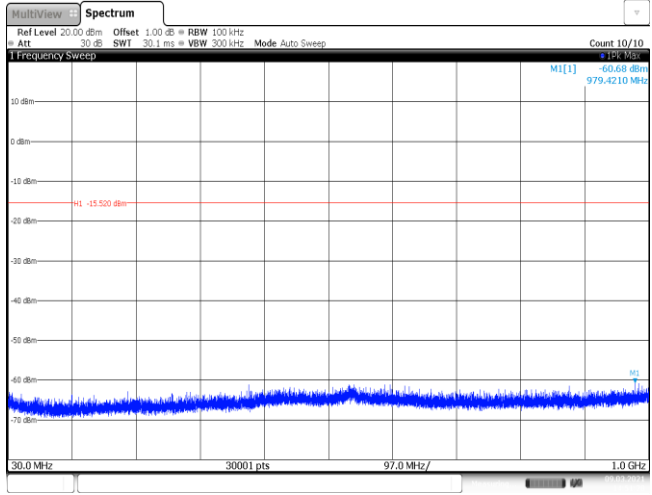
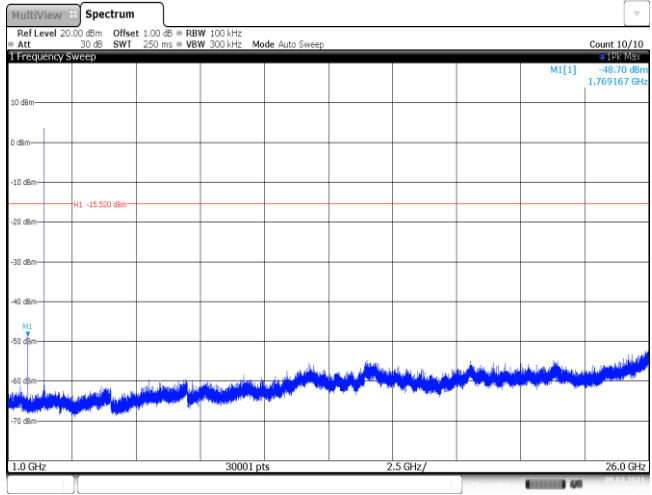
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401821 GHz</td> <td>-2.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39968 GHz</td> <td>-52.76 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9 MAR 2021 15:24:01</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-2.75 dBm			M2	1		2.4 GHz	-52.67 dBm			M3	1		2.39 GHz	-62.76 dBm			M4	1		2.31 GHz	-64.21 dBm			M5	1		2.39968 GHz	-52.76 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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CH78  
Hoppig mode

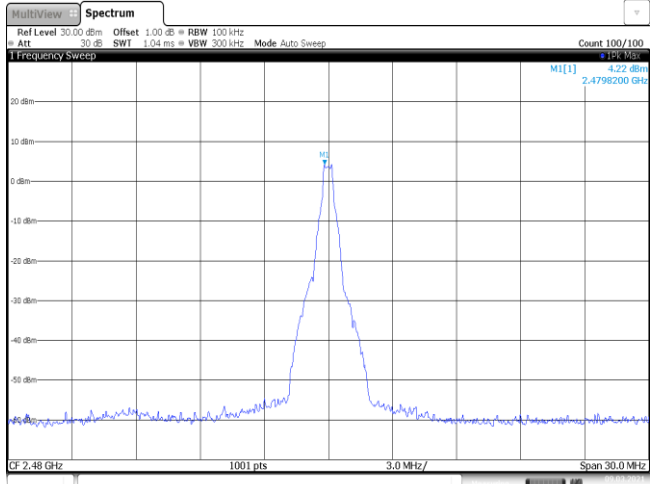
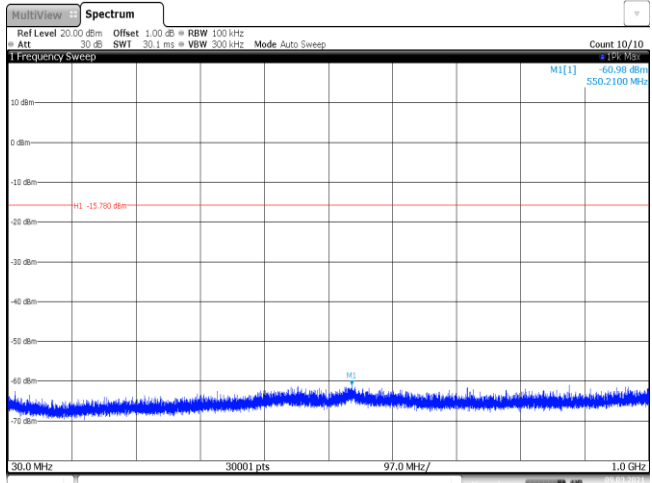
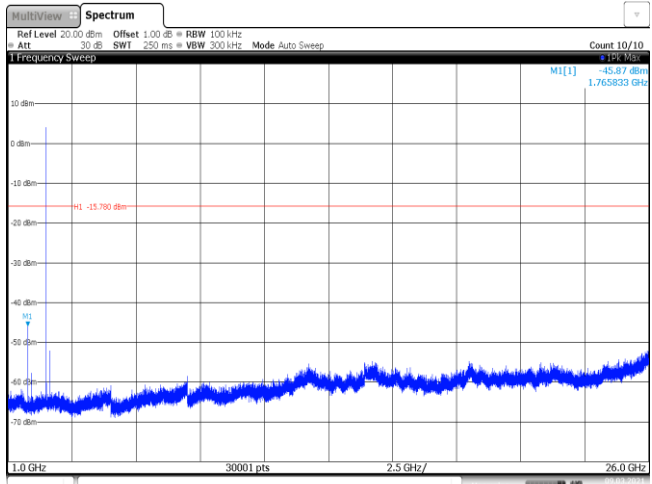


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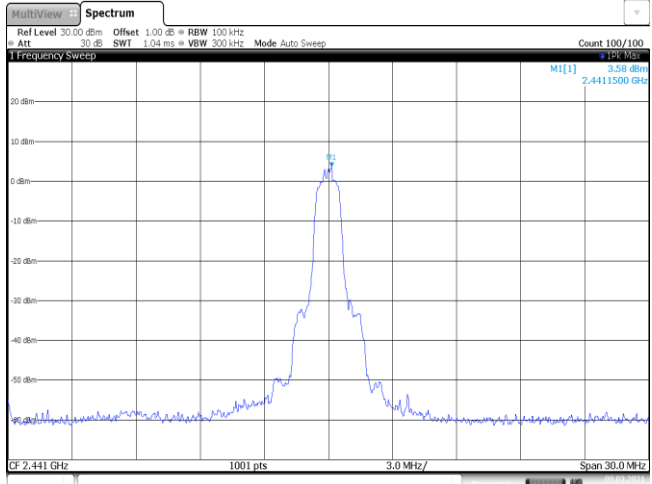
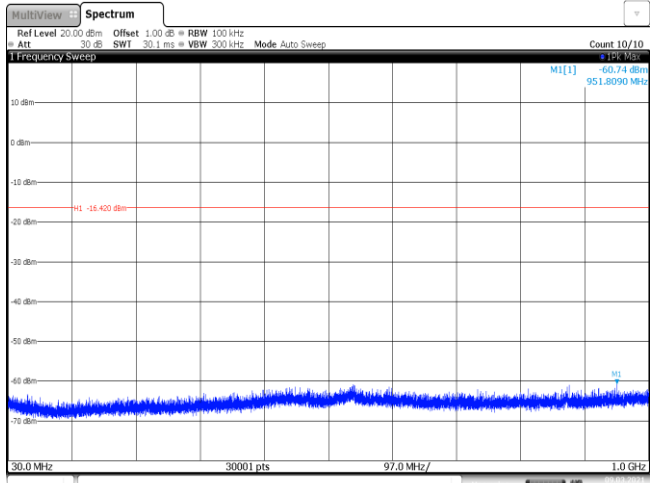
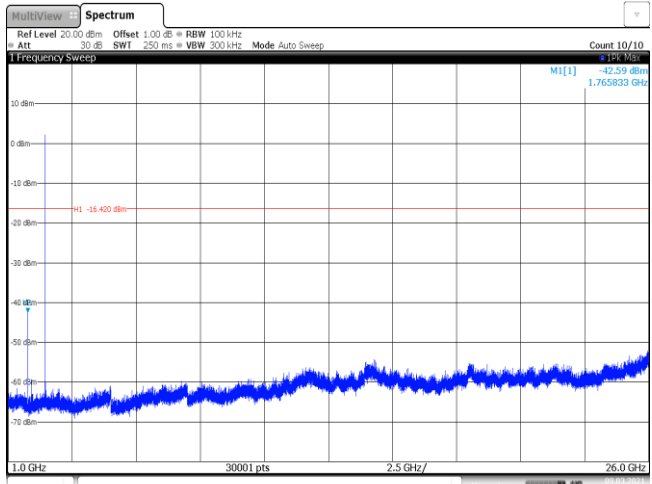


Test Item:	Spurious Emission	Modulation type:	GFSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 9 MAR 2021 14:51:29</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 9 MAR 2021 14:51:45</p>		

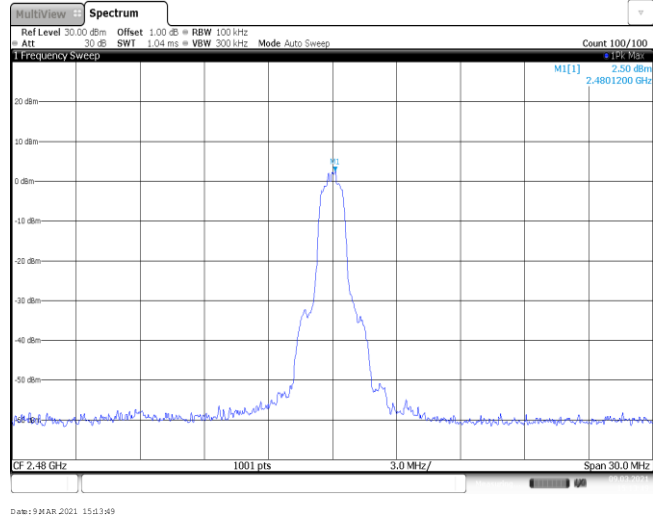
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<p>CH39 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1 -61.08 dBm 965.1940 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 9 MAR 2021 14:56:41</p>
<p>CH39 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1 -51.77 dBm 25.998333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 9 MAR 2021 14:56:57</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] 4.22 dBm 2.4796200 GHz</p> <p>CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 9 MAR 2021 14:58:51</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] -60.98 dBm 550.2100 MHz</p> <p>H1 -15.780 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 9 MAR 2021 14:59:07</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] -45.87 dBm 1.765833 GHz</p> <p>H1 -15.780 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 9 MAR 2021 14:59:24</p>

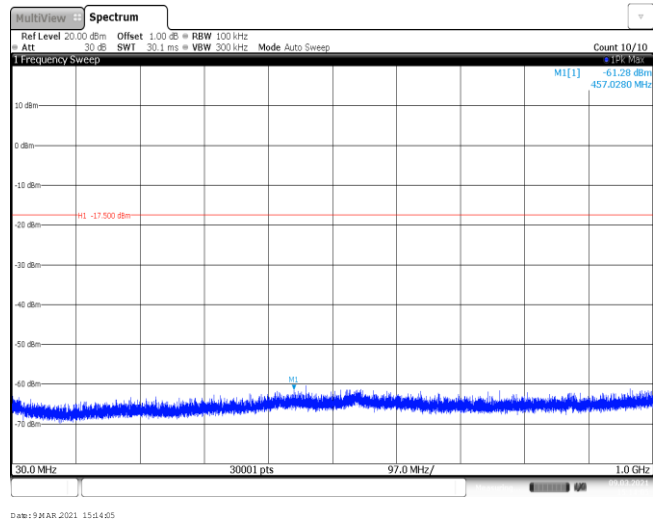
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
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<p>CH00 30MHz~1000MHz</p>			
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<p>CH39 Reference level</p>	 <p>Date: 9/MAR/2021 15:11:02</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Date: 9/MAR/2021 15:11:18</p>
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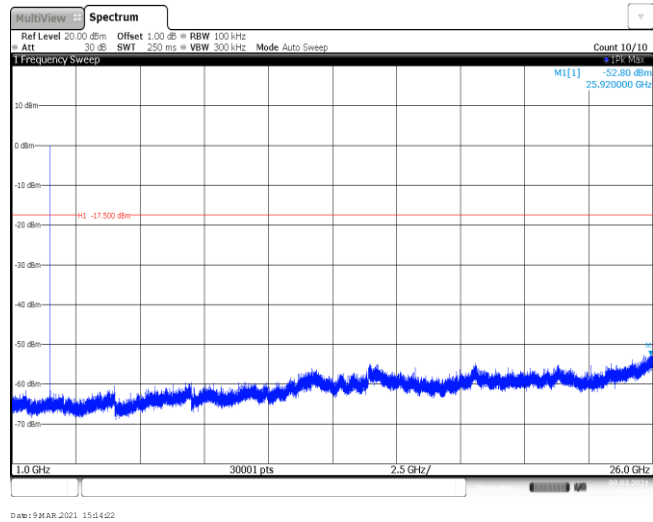
CH78  
Reference level

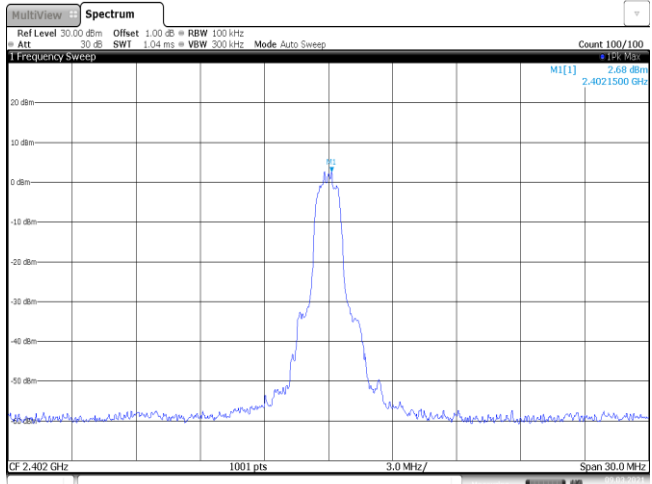
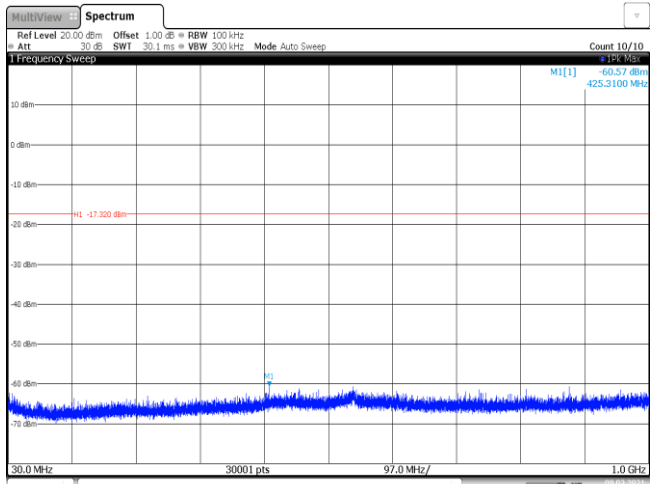
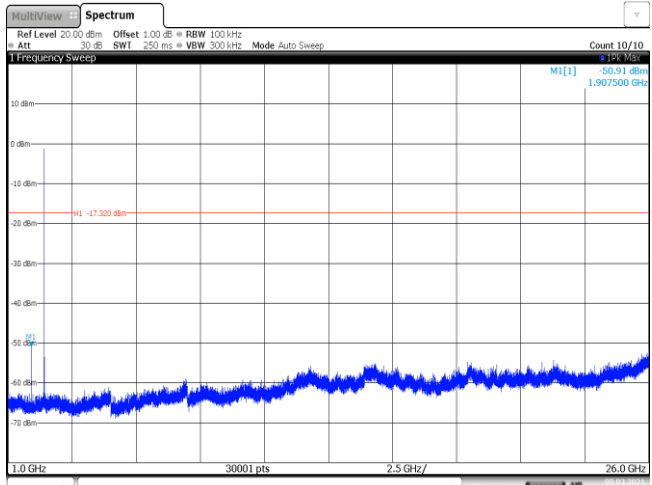


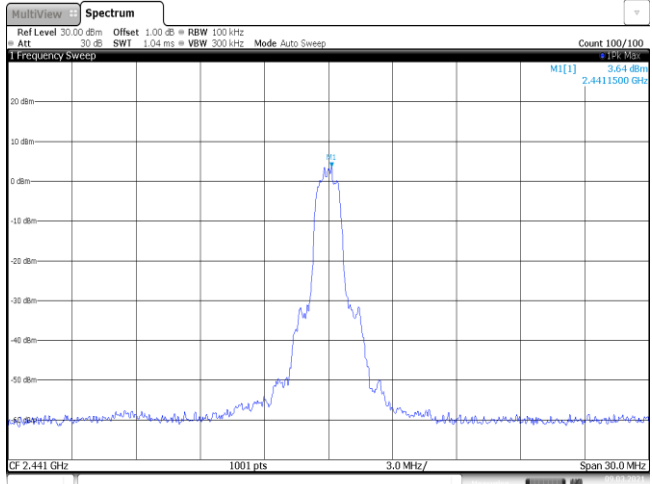
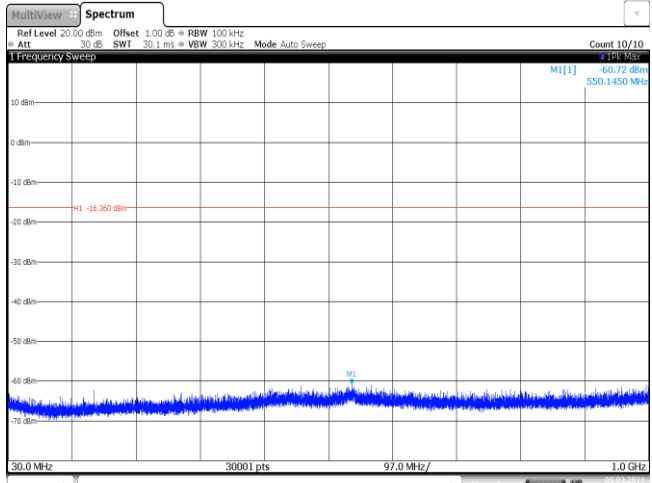
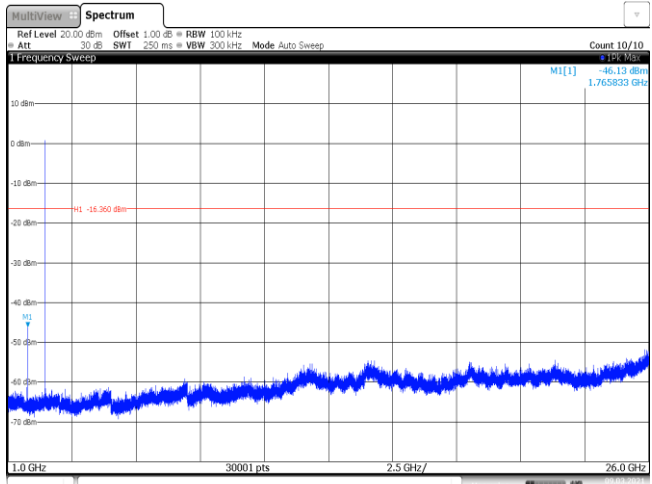
CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



Test Item:	Spurious Emission	Modulation type:	8DPSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 9 MAR 2021 15:24:04</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 9 MAR 2021 15:24:40</p>		

<p>CH39 Reference level</p>	
<p>CH39 30MHz~1000MHz</p>	
<p>CH39 1GHz~26GHz</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] 2.81 dBm 2.4801500 GHz</p> <p>CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 9 MAR 2021 15:31:04</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] -60.34 dBm 548.7230 MHz</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 9 MAR 2021 15:31:20</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] -43.94 dBm 1.765833 GHz</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 9 MAR 2021 15:31:27</p>

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