

# APPENDIX REPORT

Project No.	SHT2205063201EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22050632001	Model No.	LitBike
Start test date	2022-09-03	Finish date	2022-09-05
Temperature	24.9°C	Humidity	39%
Test Engineer	<i>Hailey Chen</i>	Auditor	<i>Xiaodong Zhu</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(ducted)	PASS

**Appendix A: Peak Output Power**

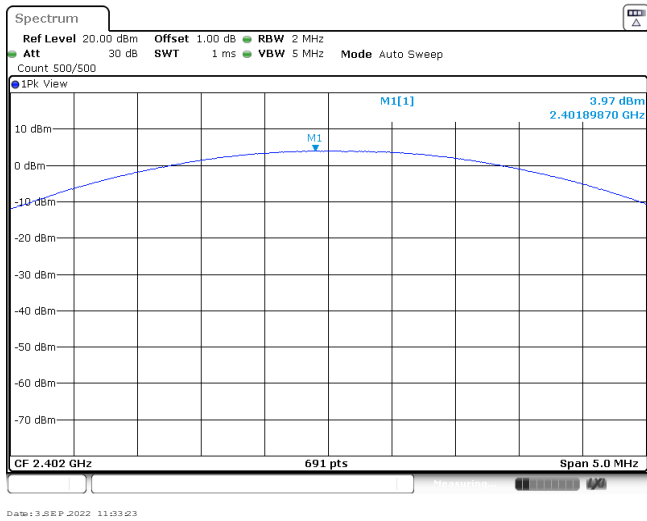
Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.72	2.64	≤ 30.00	Pass
	39	2.75	2.68		
	78	3.92	3.83		
π/4DQPSK	00	3.97	2.77	≤ 21.00	Pass
	39	4.25	2.80		
	78	5.58	3.88		
8DPSK	00	4.65	3.13	≤ 21.00	Pass
	39	4.68	3.46		
	78	5.90	4.56		

Modulation Type: GFSK	
CH00	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 300/300                      1Pk View                      M1[1] 2.72 dBm                      2.40193490 GHz                      CF 2.402 GHz 691 pts Span 5.0 MHz                      Date: 3 SEP 2022 10:58:36                 </p>
CH39	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 300/300                      1Pk View                      M1[1] 2.75 dBm                      2.44114470 GHz                      CF 2.441 GHz 691 pts Span 5.0 MHz                      Date: 3 SEP 2022 11:01:24                 </p>
CH78	<p>                     Spectrum                      Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz                      Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep                      Count 300/300                      1Pk View                      M1[1] 3.92 dBm                      2.48020260 GHz                      CF 2.48 GHz 691 pts Span 5.0 MHz                      Date: 3 SEP 2022 11:04:03                 </p>

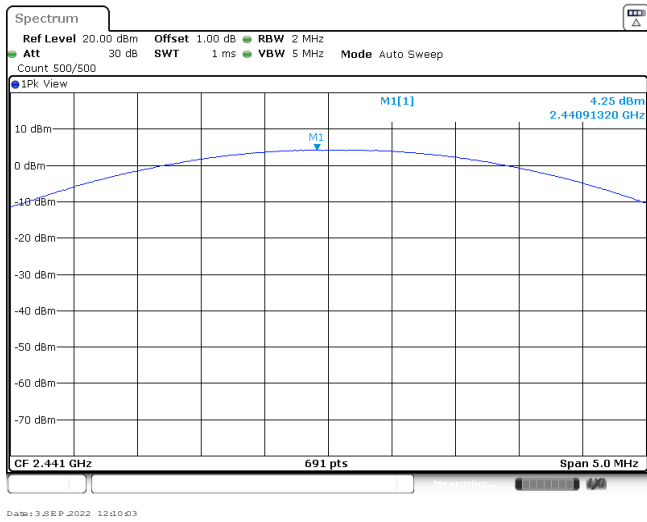
Modulation Type:

$\pi/4$ DQPSK

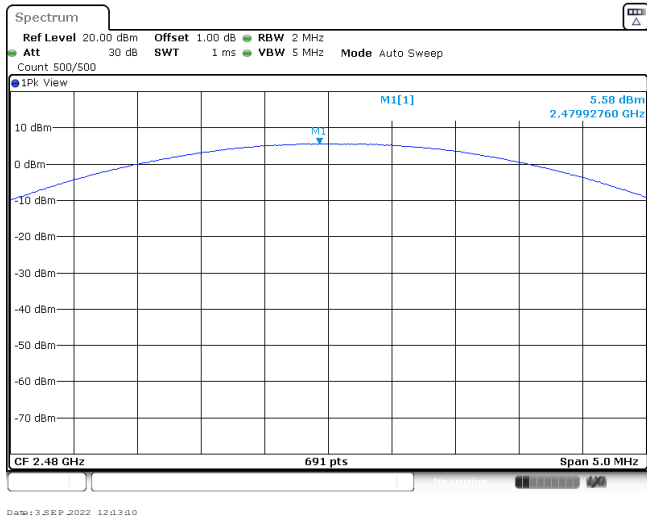
CH00



CH39



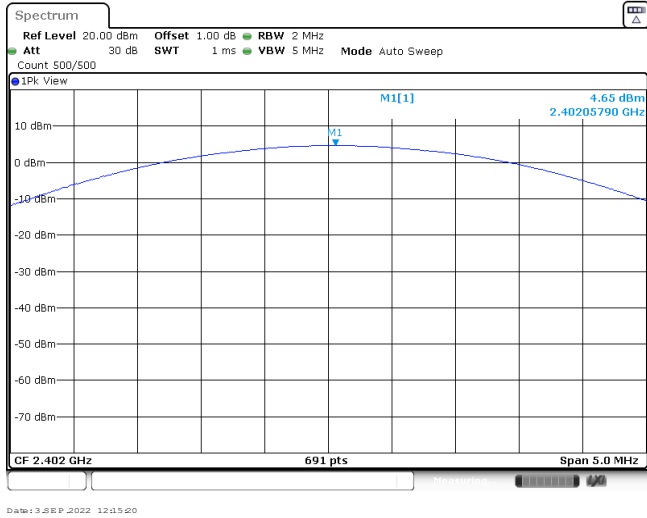
CH78



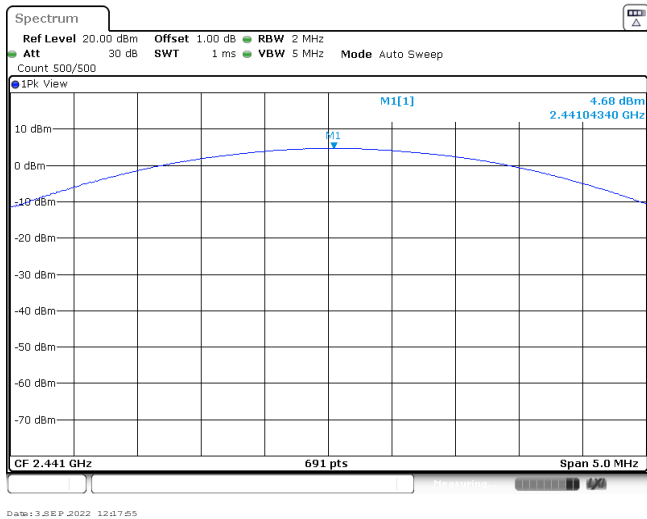
Modulation Type:

8DPSK

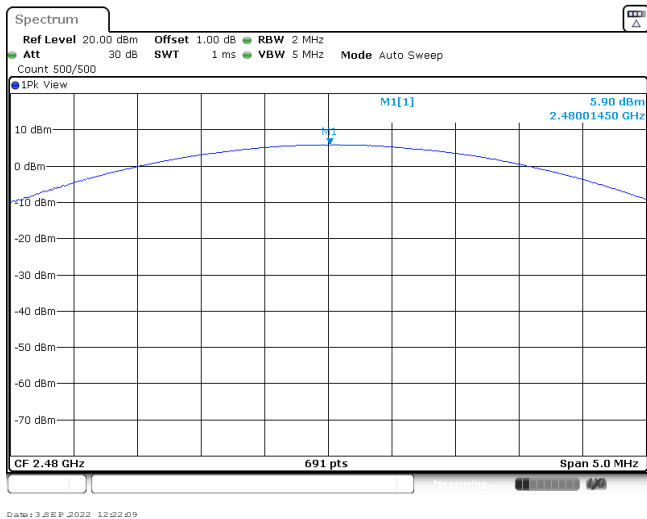
CH00



CH39



CH78

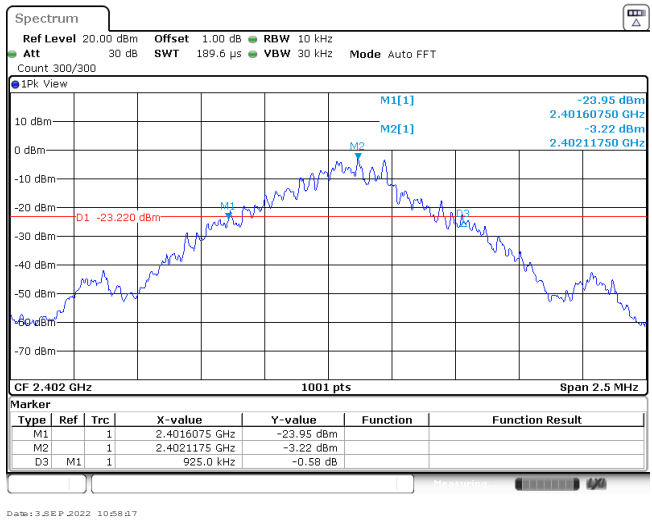


**Appendix B : 20 dB Bandwidth**

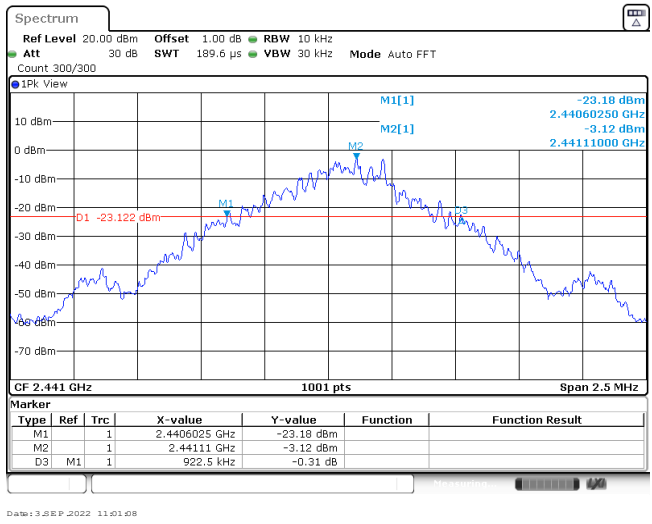
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	922.50		
	78	925.00		
$\pi/4$ DQPSK	00	1342.50	-	Pass
	39	1342.50		
	78	1342.50		
8DPSK	00	1302.50	-	Pass
	39	1305.00		
	78	1302.50		

**Modulation Type: GFSK**

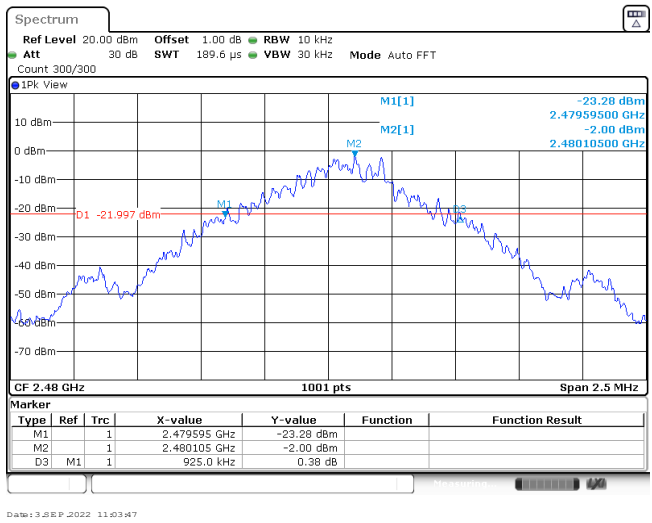
CH00



CH39

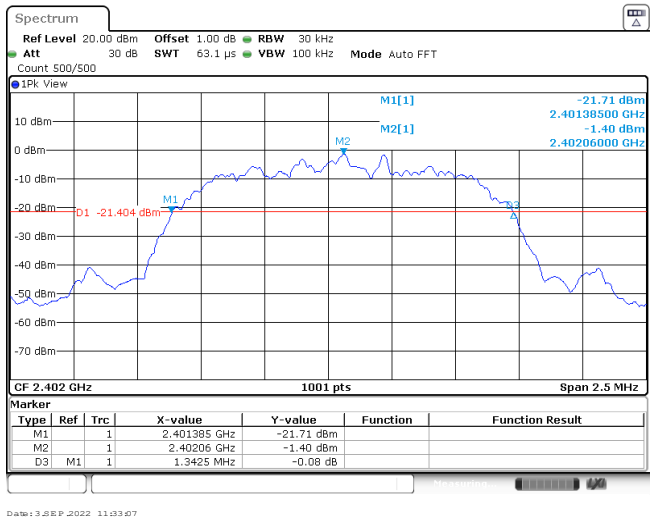


CH78



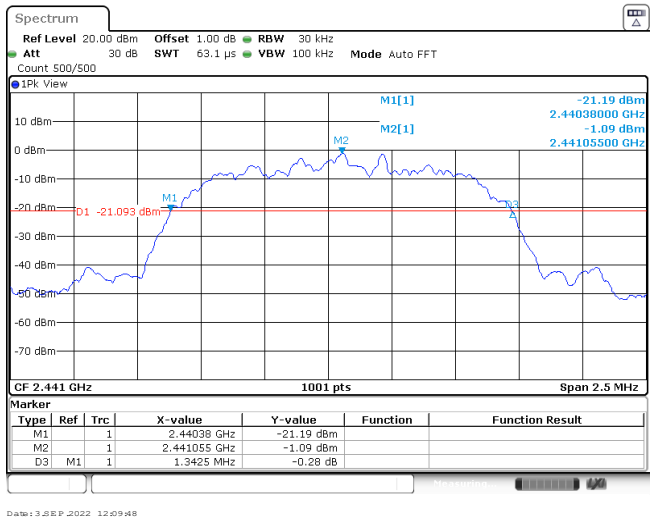
**Modulation Type:**  **$\pi/4$ DQPSK**

CH00



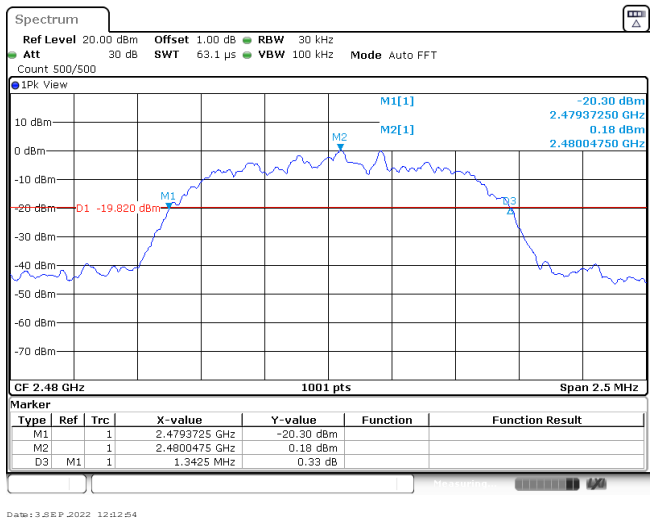
Date: 3 SEP 2022 11:03:07

CH39



Date: 3 SEP 2022 12:09:48

CH78

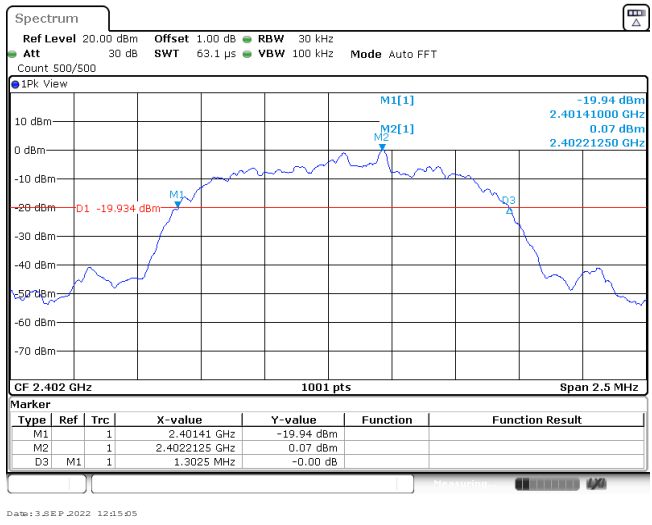


Date: 3 SEP 2022 12:12:54

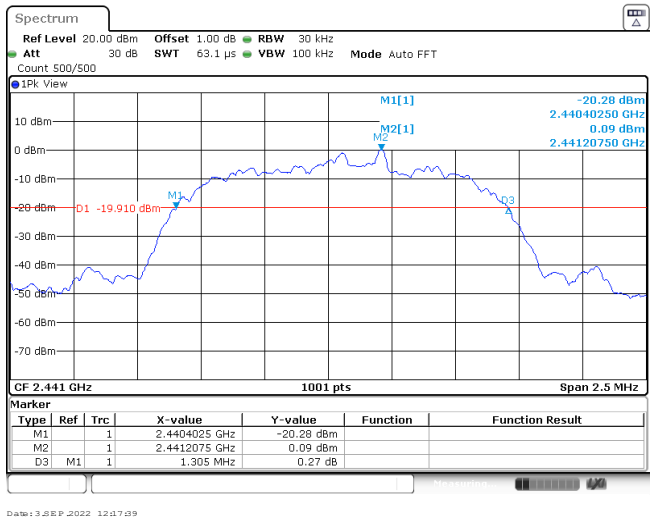


**Modulation Type: 8DPSK**

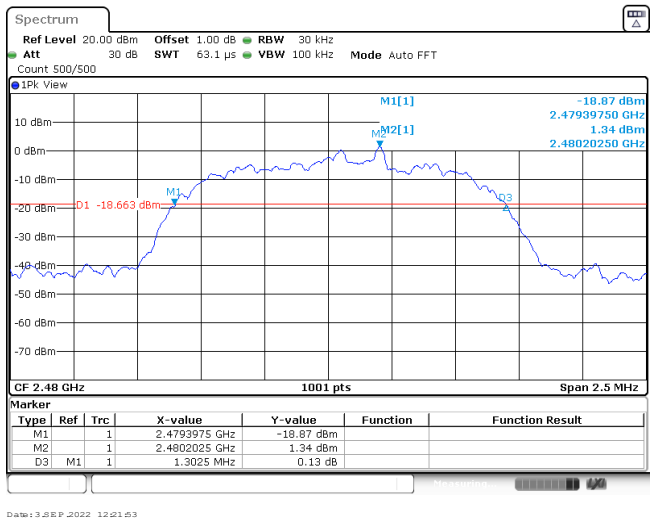
CH00



CH39



CH78



**Appendix C: 99% Occupied Bandwidth**

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

Modulation Type: GFSK	
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 10:58:28</p>
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 11:01:16</p>
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 11:03:55</p>

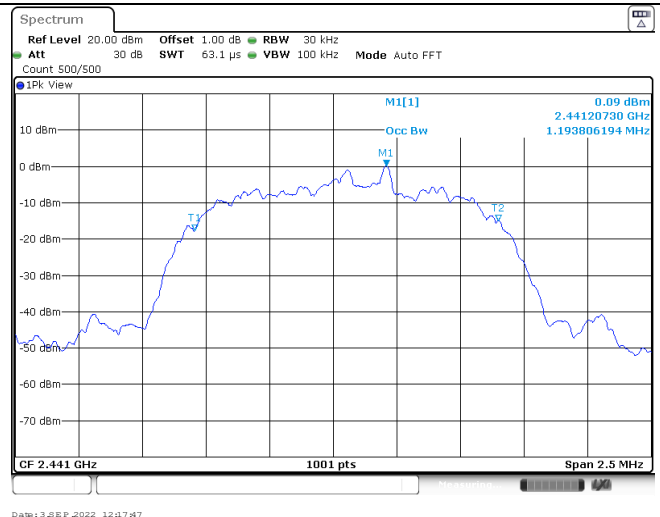
Modulation Type: <span style="float: right;"><math>\pi/4</math>QPSK</span>	
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 11:53:04</p>
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 12:09:55</p>
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 3 SEP 2022 12:13:02</p>

**Modulation Type: 8DPSK**

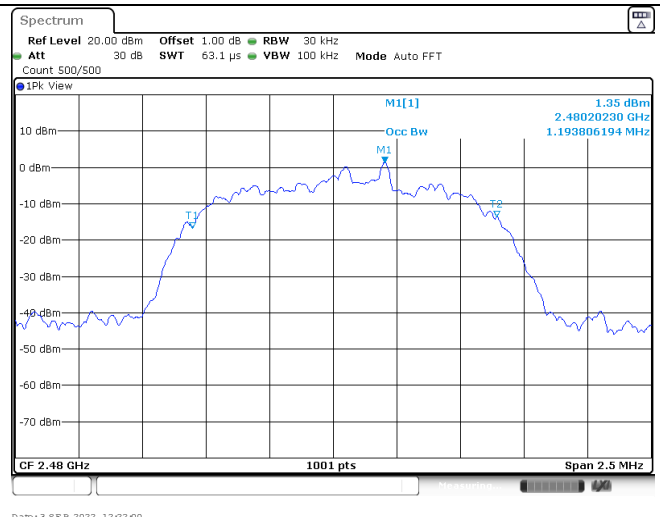
CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925.00	Pass
$\pi/4$ DQPSK	39	1.00	≥895.00	Pass
8DPSK	39	1.00	≥870.00	Pass

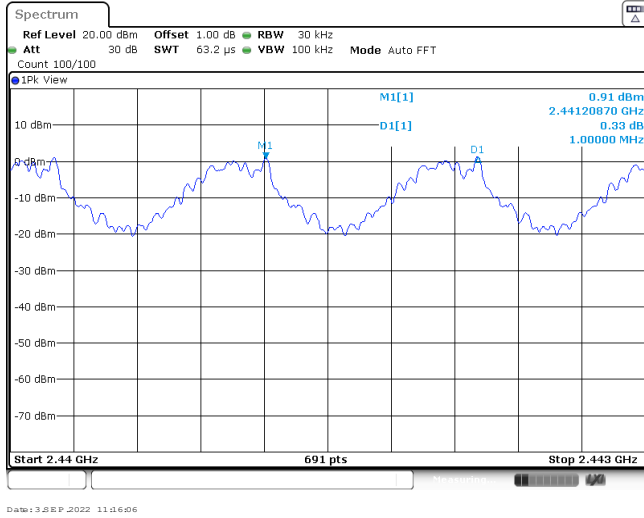
**Note:**

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

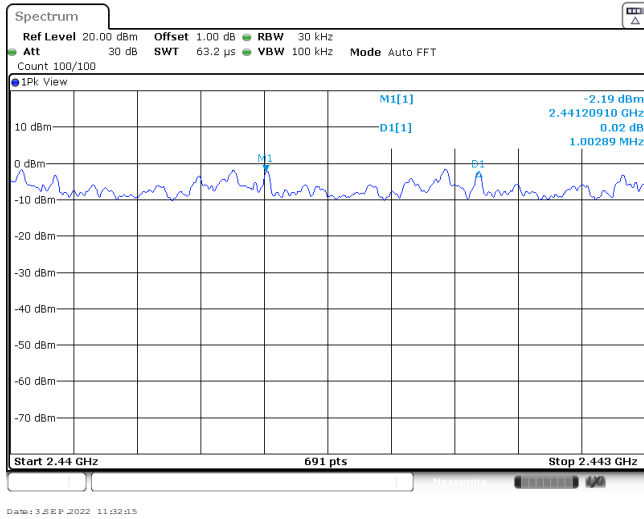
$\pi/4$ DQPSK limit =  $2/3$  \* The maximum 20 dB Bandwidth for  $\pi/4$ DQPSK modulation on the appendix B.

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

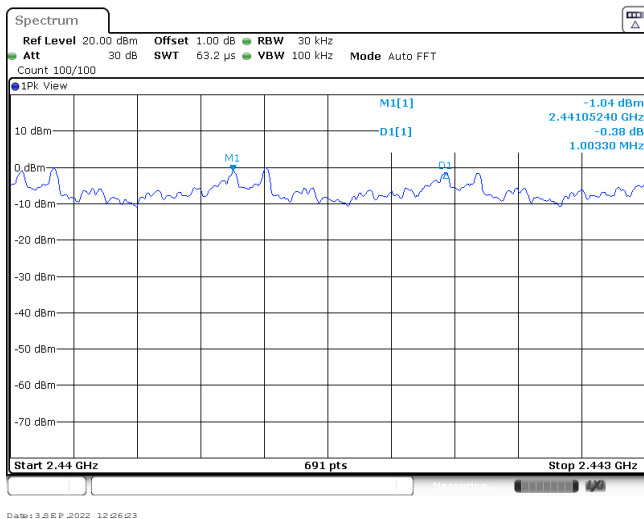
GFSK



$\pi/4$ DQPSK



8DPSK

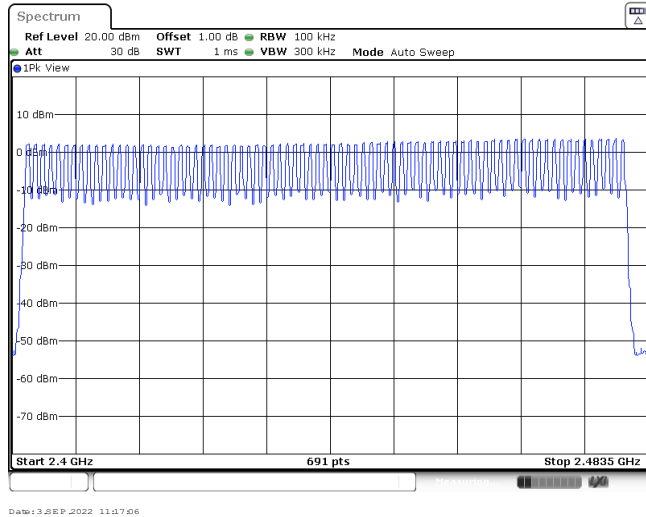


**Appendix E: Hopping Channel Number**

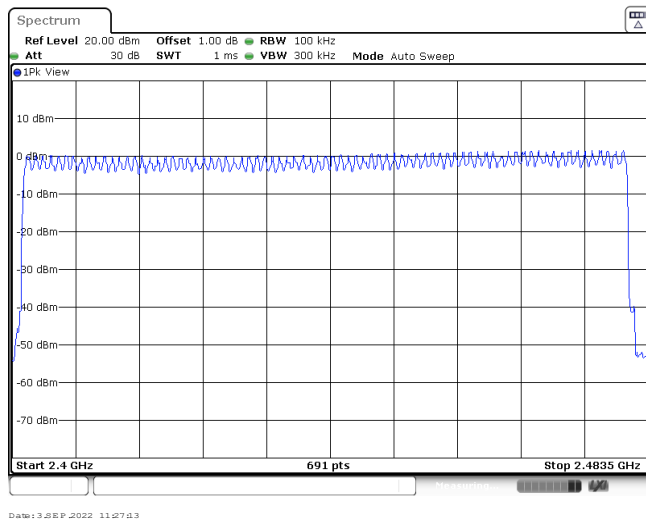
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



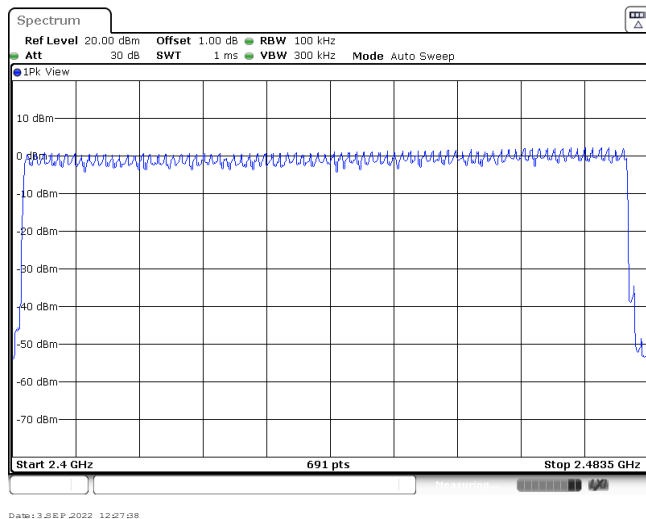
GFSK



$\pi/4$ DQPSK



8DPSK

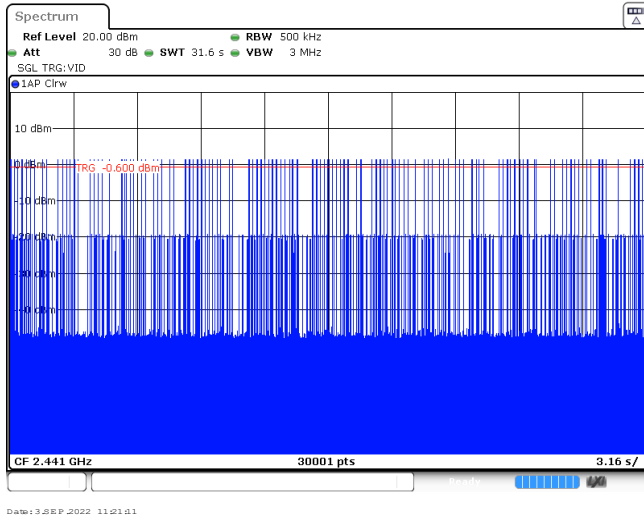


**Appendix F: Dwell Time**

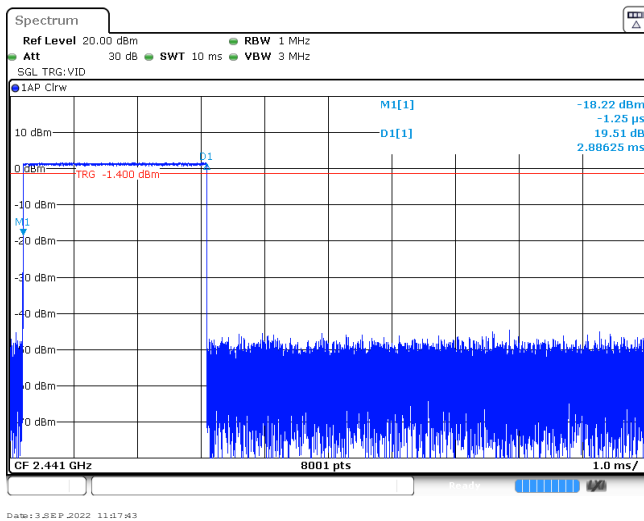
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	320	0.12	≤ 0.40	Pass
	DH3	1.64	162	0.27		
	DH5	2.89	99	0.29		
π/4DQPSK	2DH1	0.39	318	0.12	≤ 0.40	Pass
	2DH3	1.64	154	0.25		
	2DH5	2.89	108	0.31		
8DPSK	3DH1	0.39	320	0.12	≤ 0.40	Pass
	3DH3	1.64	167	0.27		
	3DH5	2.89	121	0.35		

Modulation Type: GFSK	
DH1 Burst width	<p>Spectrum                  Ref Level 20.00 dBm RBW 1 MHz                  Att 30 dB SWT 10 ms VBW 3 MHz                  SGL TRG:VID                  1AP Cirw                  M1[1] -5.52 dBm                  D1[1] 6.88 dB                  TRG -1.300 dBm                  CF 2.441 GHz 8001 pts 1.0 ms/                  Date: 3 SEP 2022 11:09:11</p>
DH1 Burst number	<p>Spectrum                  Ref Level 20.00 dBm RBW 500 kHz                  Att 30 dB SWT 31.6 s VBW 3 MHz                  SGL TRG:VID                  1AP Cirw                  TRG -1.300 dBm                  CF 2.441 GHz 30001 pts 3.16 s/                  Date: 3 SEP 2022 11:09:44</p>
DH3 Burst width	<p>Spectrum                  Ref Level 20.00 dBm RBW 1 MHz                  Att 30 dB SWT 10 ms VBW 3 MHz                  SGL TRG:VID                  1AP Cirw                  M1[1] -7.55 dBm                  D1[1] 8.89 dB                  TRG -0.600 dBm                  CF 2.441 GHz 8001 pts 1.0 ms/                  Date: 3 SEP 2022 11:00:38</p>

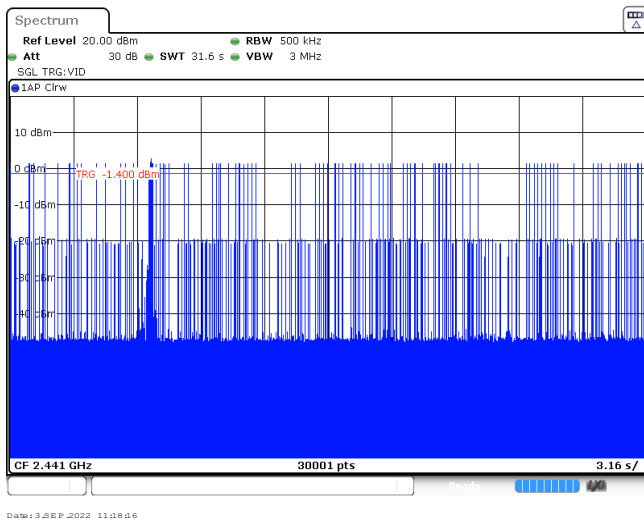
DH3  
Burst number



DH5  
Burst width

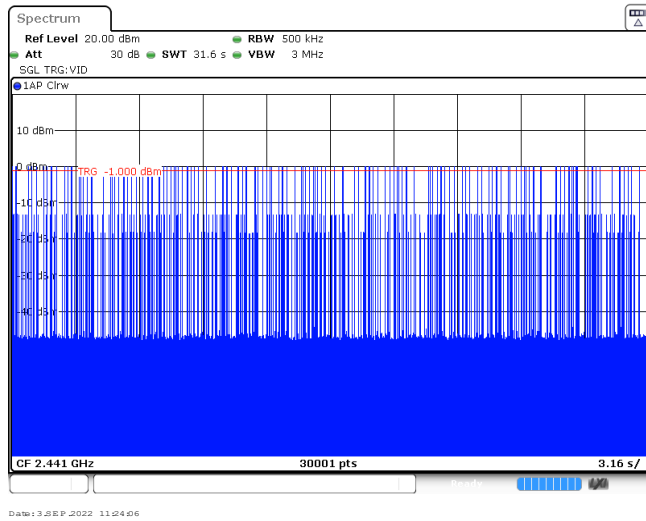


DH5  
Burst number

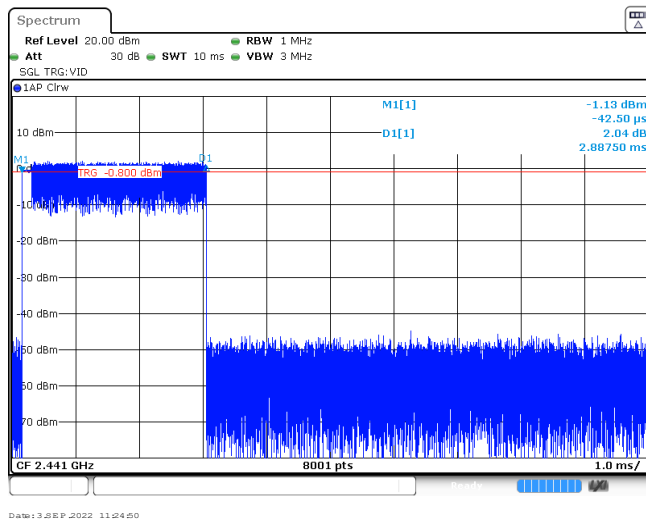


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 3 SEP 2022 11:22:15</p>
2DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 3 SEP 2022 11:22:48</p>
2DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 3 SEP 2022 11:23:02</p>

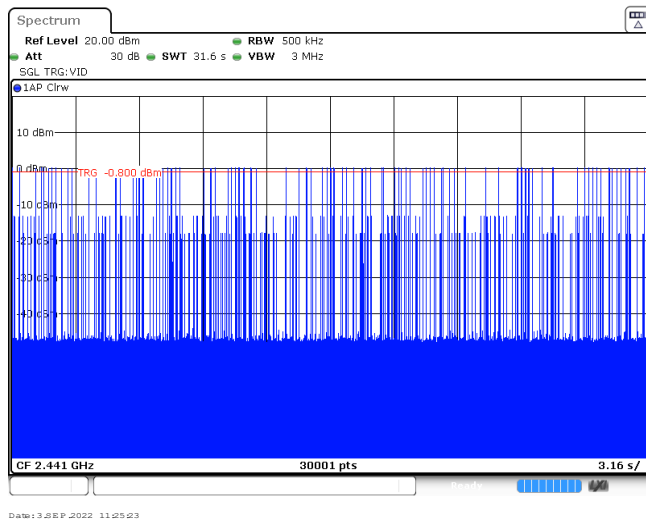
2DH3  
Burst number



2DH5  
Burst width



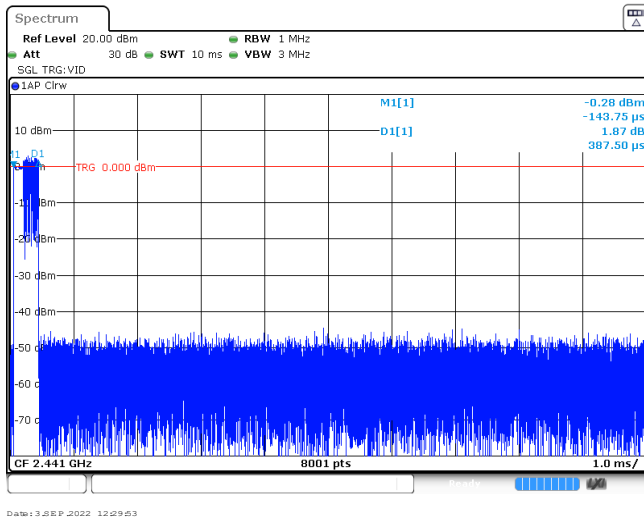
2DH5  
Burst number



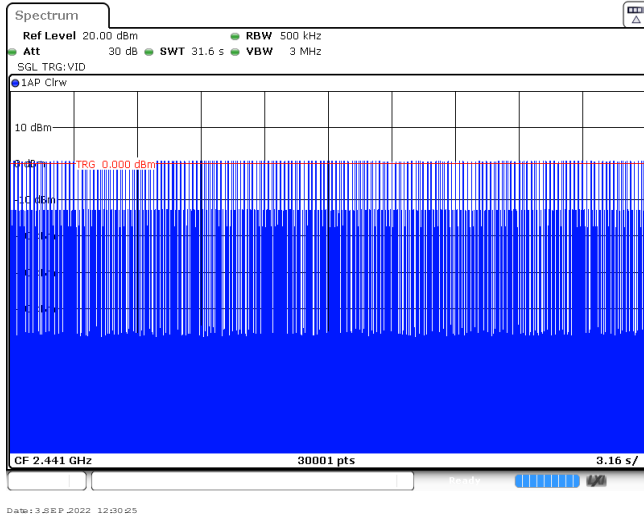
**Modulation Type:**

**8DPSK**

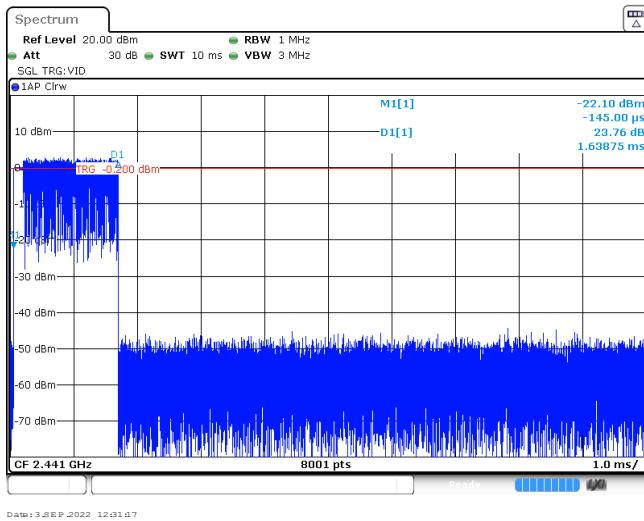
3DH1  
Burst width



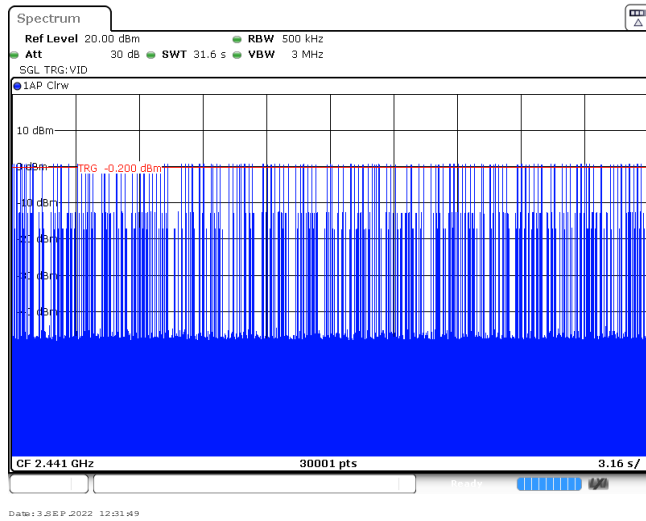
3DH1  
Burst number



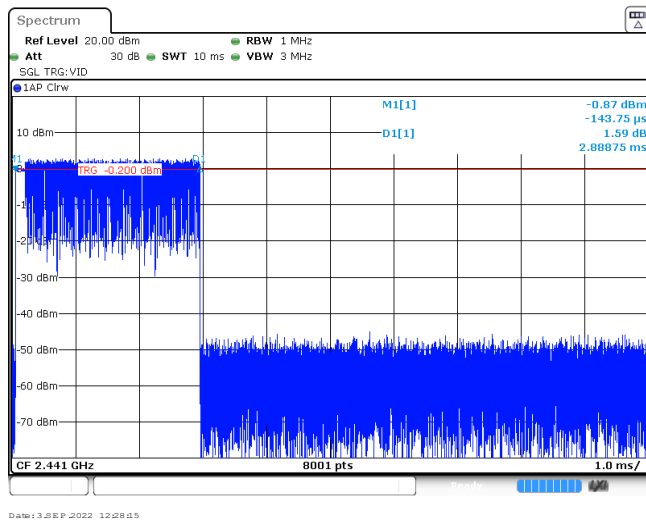
3DH3  
Burst width



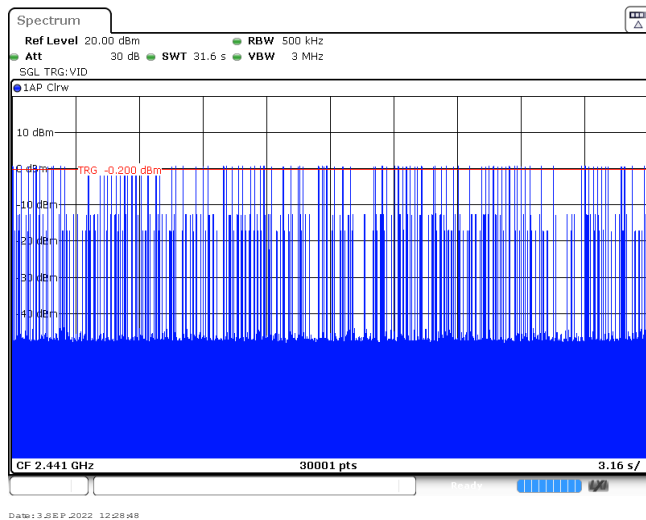
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number



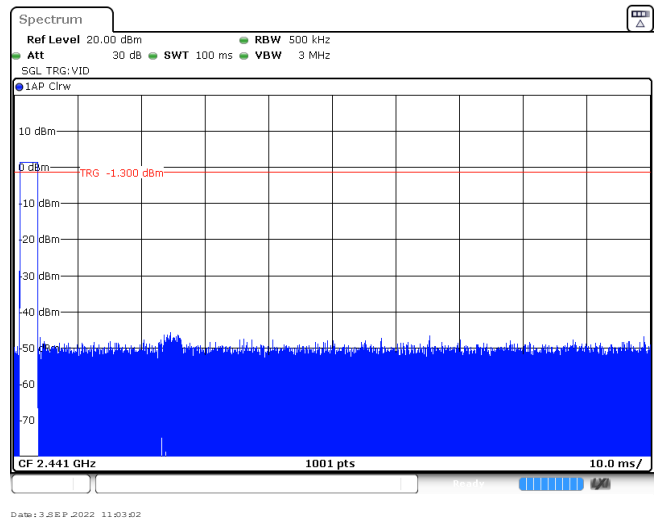
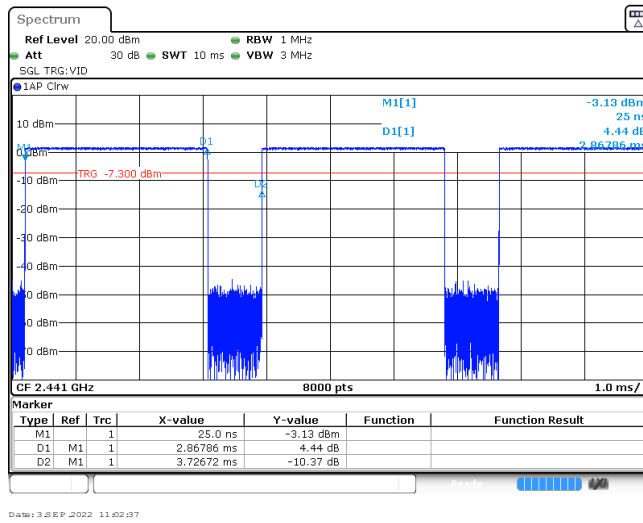


**Appendix G: Duty Cycle Correction Factor (DCCF)****DCCF Calculate Formula**

$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T <sub>on time</sub> for single burst [ms]	T <sub>period</sub> [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.87	100	1	-30.84
$\pi/4$ DQPSK	2441	2.87	100	2	-24.82
8DPSK	2441	2.87	100	2	-24.82

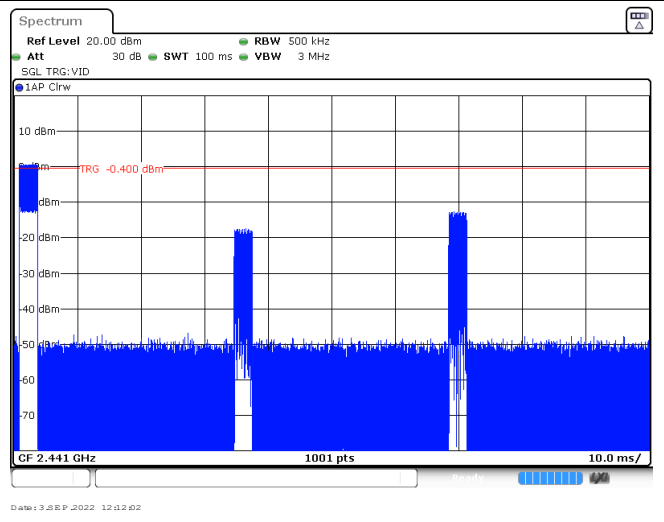
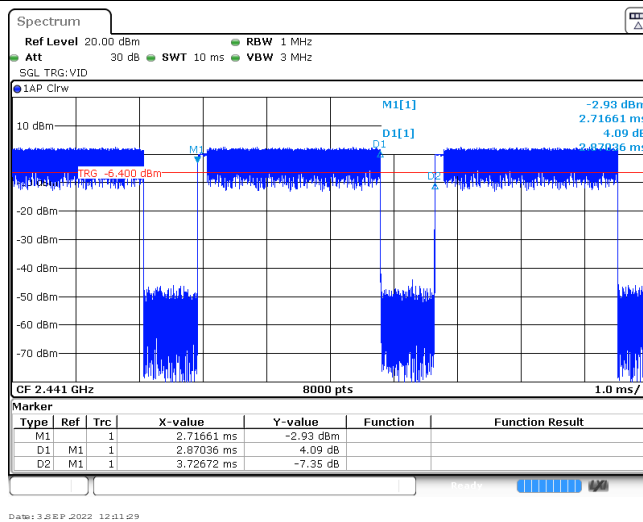
GFSK



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

Burst Quantity

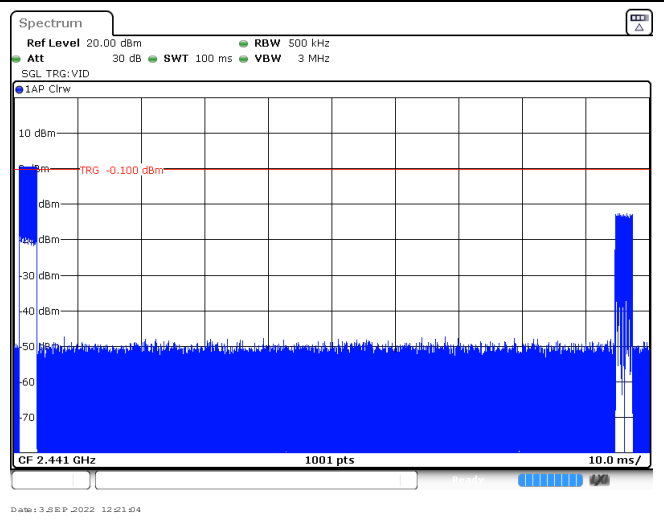
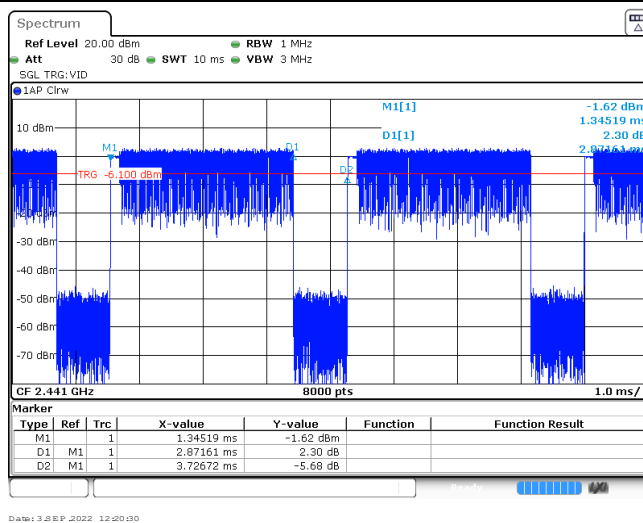
$\pi/4$  DQPSK



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

Burst Quantity

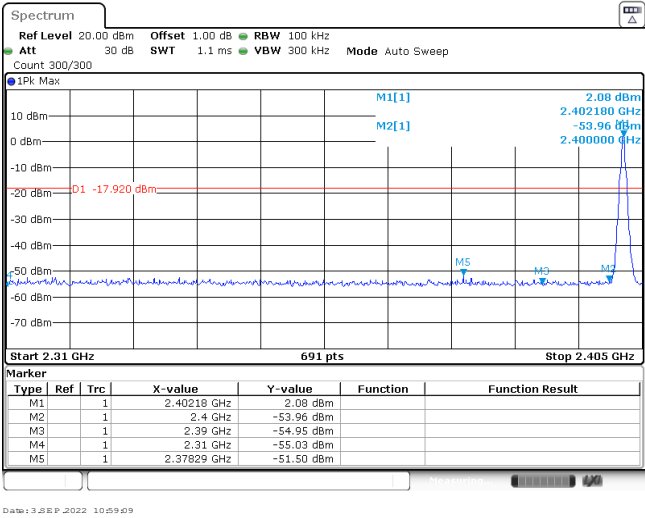
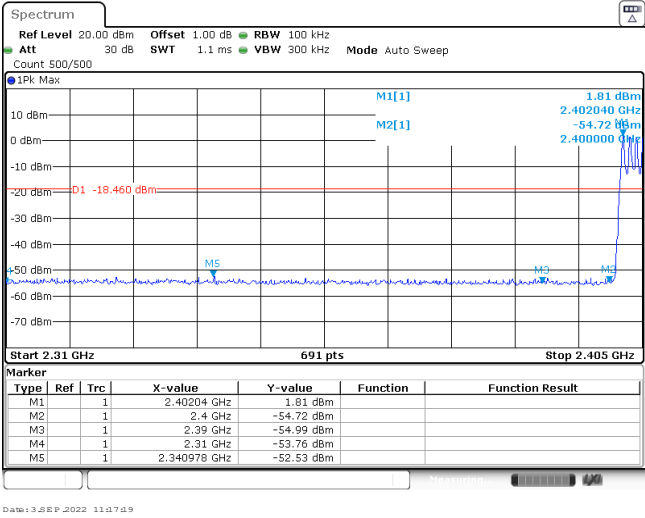
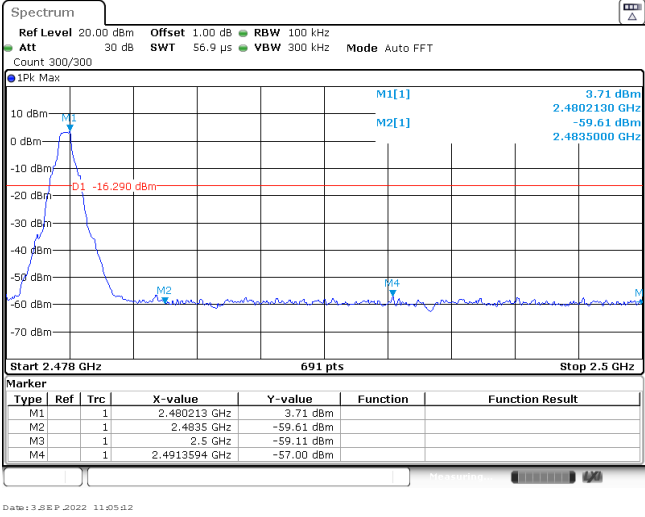
8DPSK



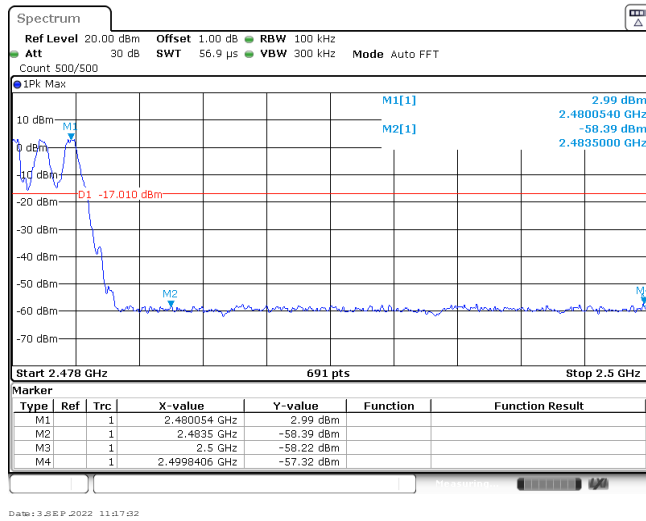
T<sub>on</sub> time for single burst

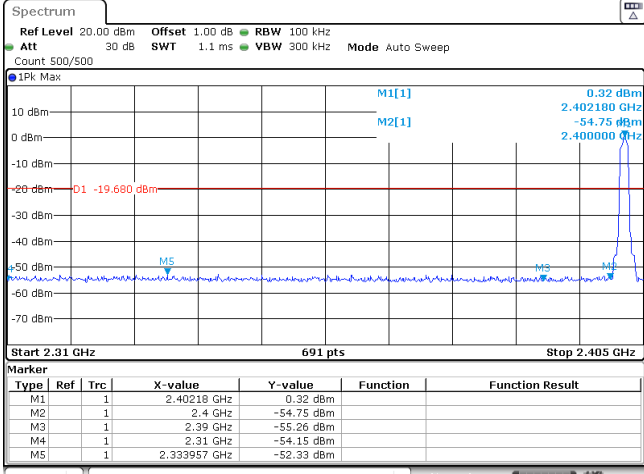
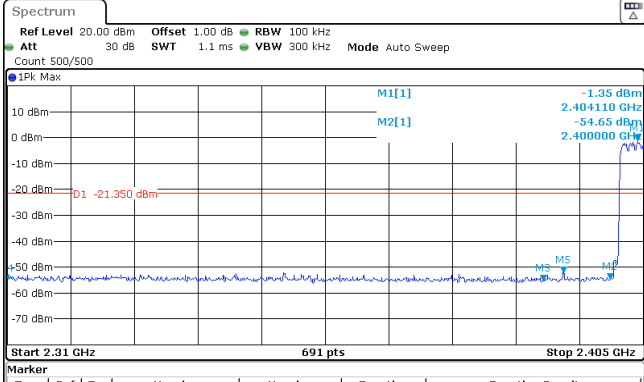
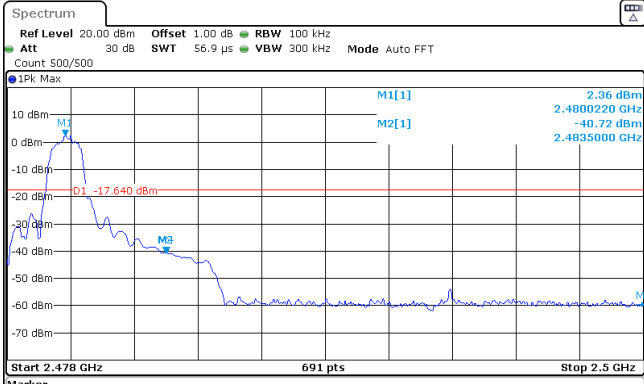
Burst Quantity

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

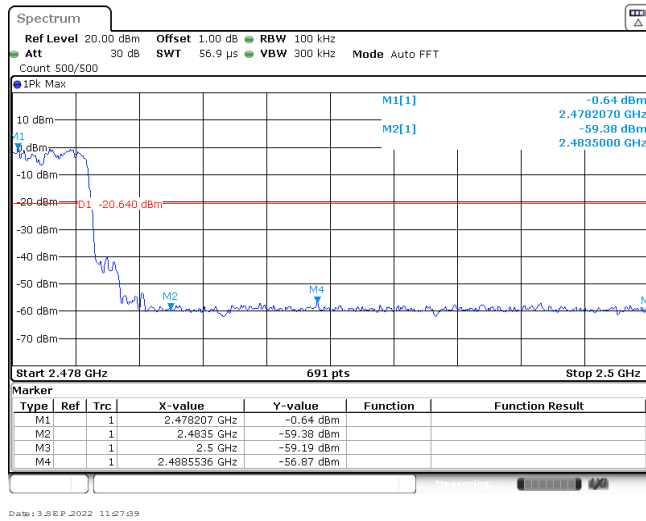
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="687 725 1334 824"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40218 GHz</td> <td>2.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.37829 GHz</td> <td>-51.50 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	2.08 dBm			M2	1		2.4 GHz	-53.96 dBm			M3	1		2.39 GHz	-54.95 dBm			M4	1		2.31 GHz	-55.03 dBm			M5	1		2.37829 GHz	-51.50 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40218 GHz	2.08 dBm																																									
M2	1		2.4 GHz	-53.96 dBm																																									
M3	1		2.39 GHz	-54.95 dBm																																									
M4	1		2.31 GHz	-55.03 dBm																																									
M5	1		2.37829 GHz	-51.50 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="687 1274 1334 1373"> <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>2.40204 GHz</td> <td>1.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-54.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-53.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.340978 GHz</td> <td>-52.53 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	1.81 dBm			M2	1		2.4 GHz	-54.72 dBm			M3	1		2.39 GHz	-54.99 dBm			M4	1		2.31 GHz	-53.76 dBm			M5	1		2.340978 GHz	-52.53 dBm		
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CH78  
Hopping mode



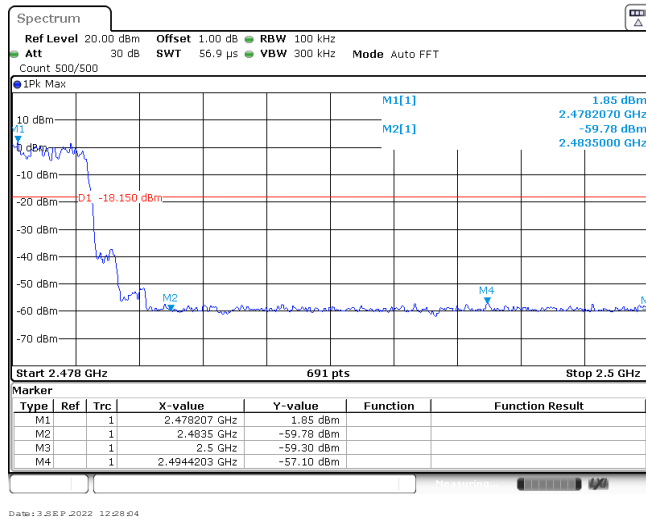
Test Item:	Band edge	Modulation type:	π/4DQPSK																																										
<p>CH00 No hopping mode</p>	 <p><b>Marker</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40218 GHz</td> <td>0.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-54.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-55.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-54.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.333957 GHz</td> <td>-52.33 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 3 SEP 2022 11:53:54</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40218 GHz	0.32 dBm			M2		1	2.4 GHz	-54.75 dBm			M3		1	2.39 GHz	-55.26 dBm			M4		1	2.31 GHz	-54.15 dBm			M5		1	2.333957 GHz	-52.33 dBm		
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CH78  
Hopping mode

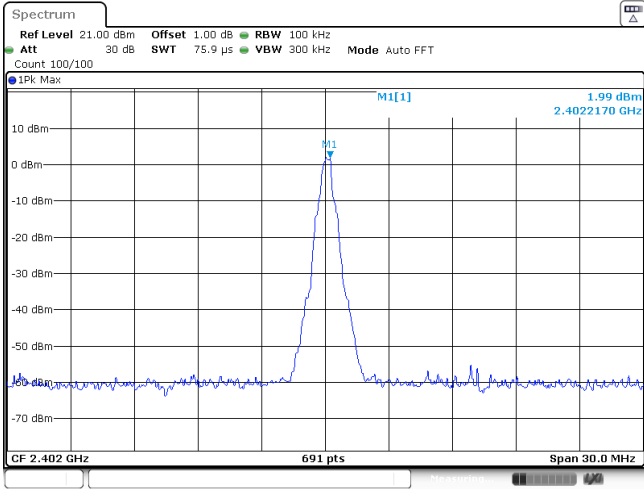
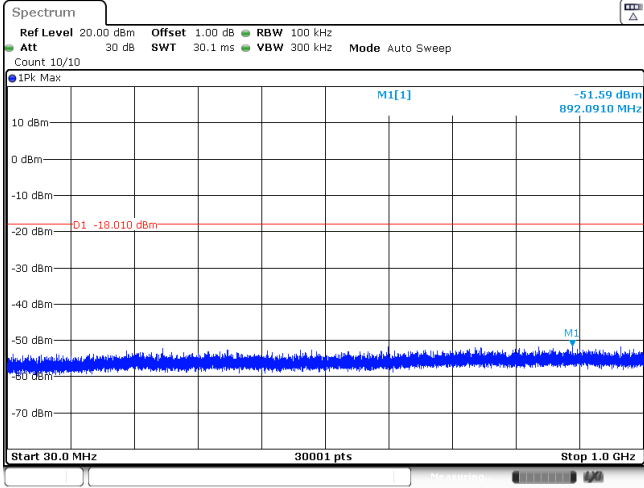
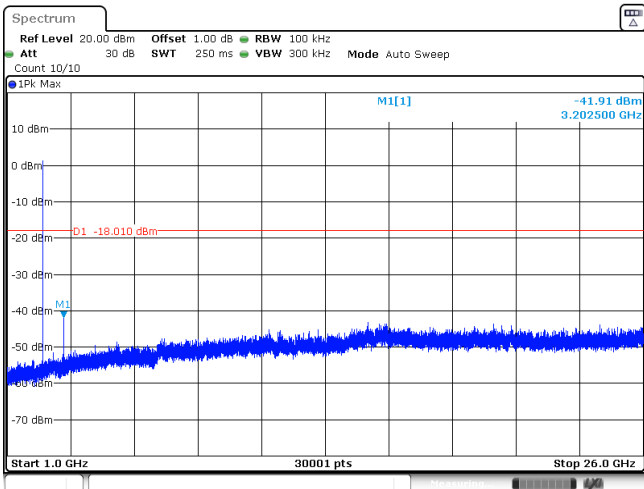


Test Item:	Band edge	Modulation type:	8DPSK																																										
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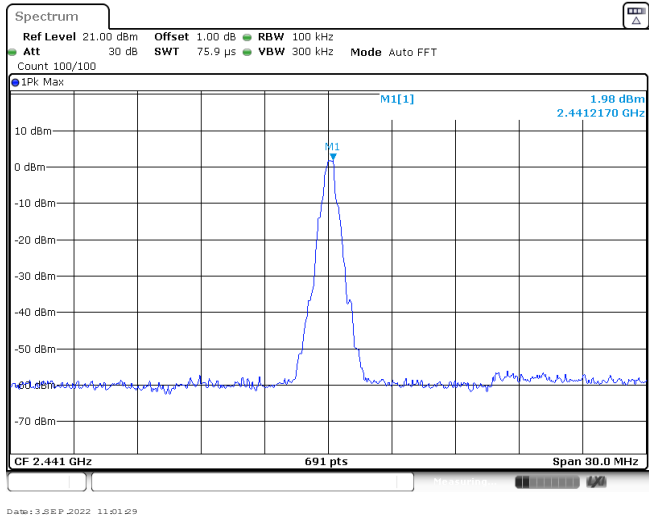
CH78  
Hoppig mode



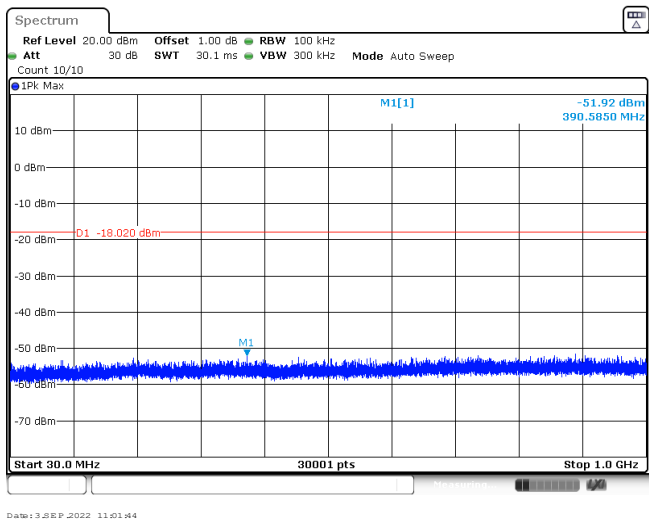


Test Item:	Spurious Emission	Modulation type:	GFSK
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<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

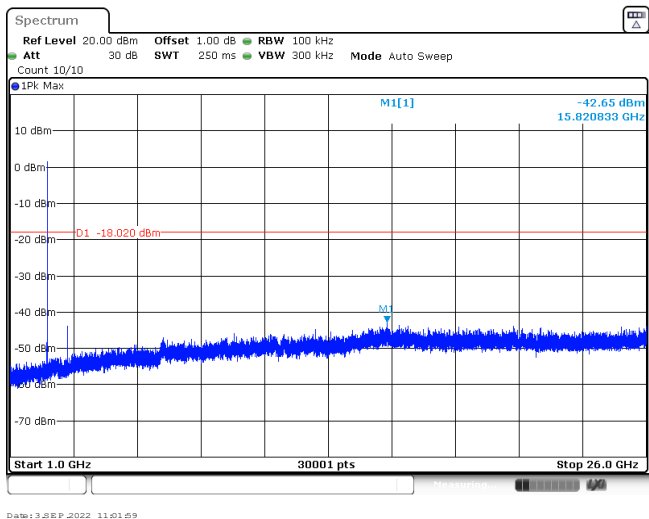
CH39  
Reference level



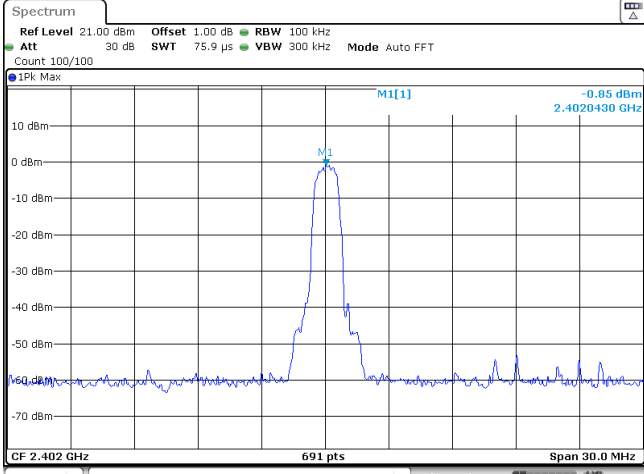
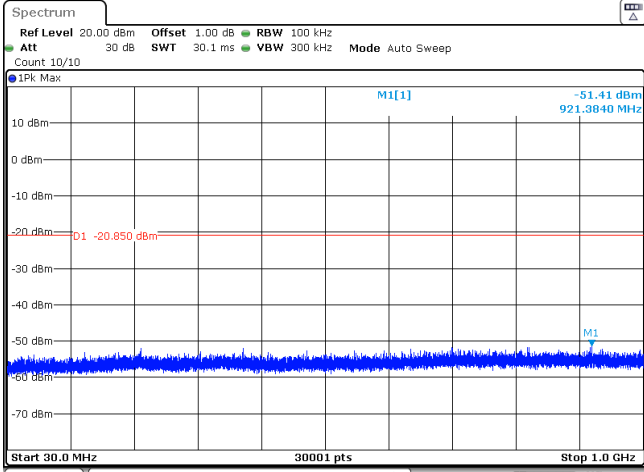
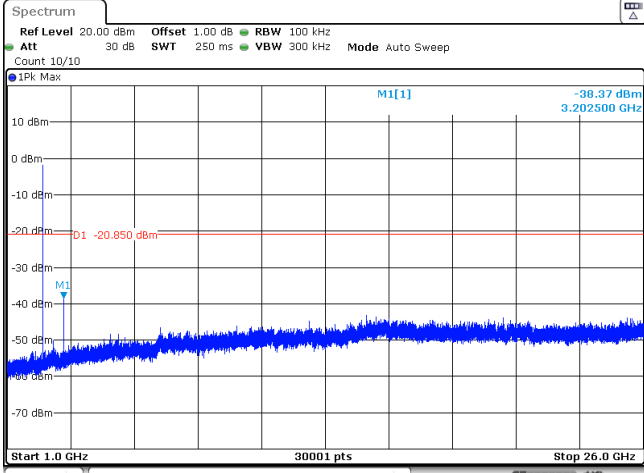
CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz

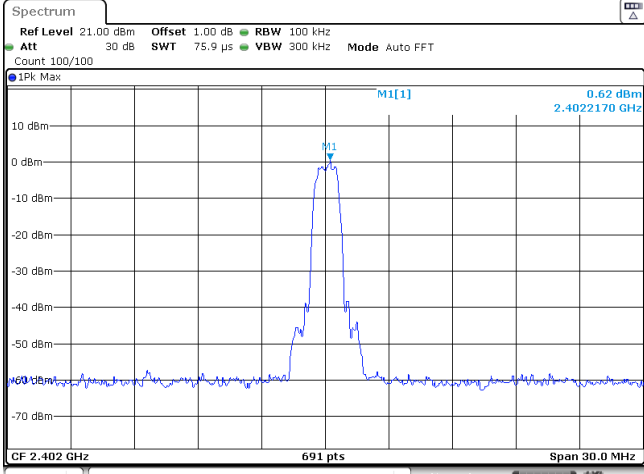
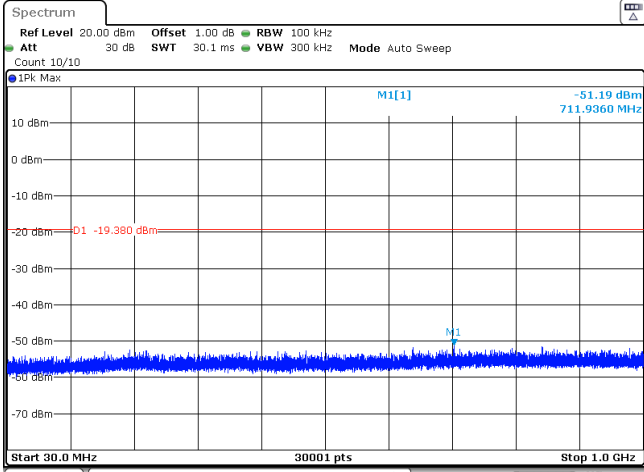
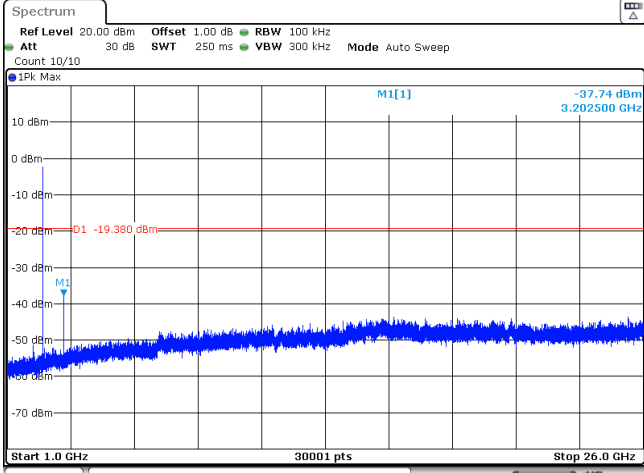


<p>CH78 Reference level</p>	
<p>CH78 30MHz~1000MHz</p>	
<p>CH78 1GHz~26GHz</p>	

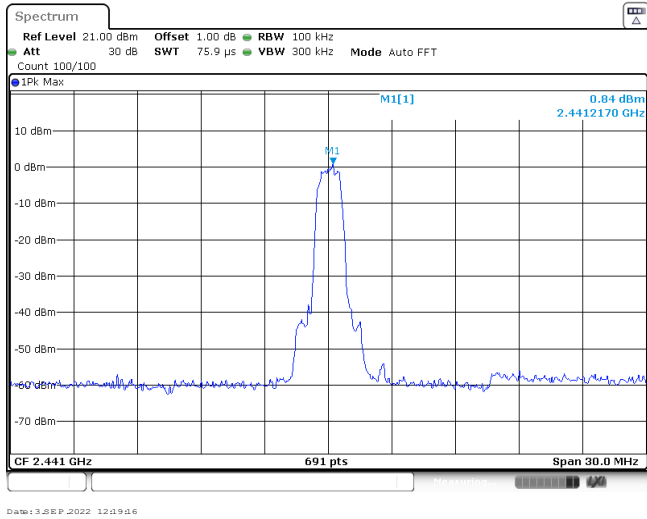
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 3 SEP 2022 11:04:15</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 3 SEP 2022 11:04:00</p>		

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

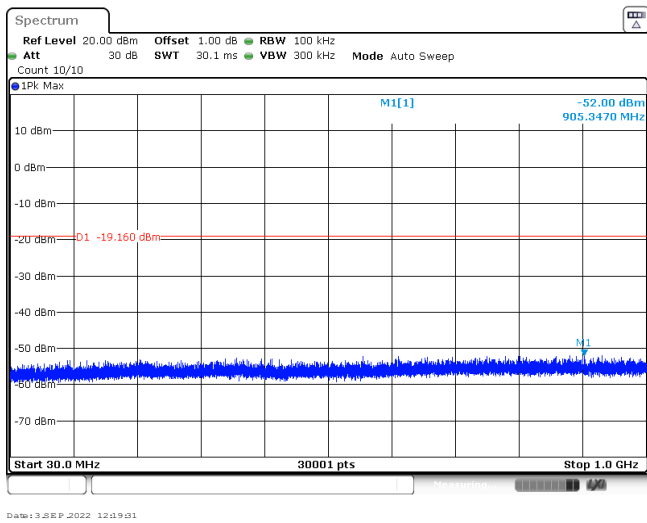
<p>CH78 Reference level</p>	<p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 1.79 dBm 2.4802170 GHz</p> <p>CF 2.48 GHz 691 pts Span 30.0 MHz</p> <p>Date: 3 SEP 2022 12:13:28</p>
<p>CH78 30MHz~1000MHz</p>	<p>Spectrum</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</p> <p>IPK Max</p> <p>M1[1] -51.62 dBm 918.5390 MHz</p> <p>D1 -18.210 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 3 SEP 2022 12:13:43</p>
<p>CH78 1GHz~26GHz</p>	<p>Spectrum</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</p> <p>IPK Max</p> <p>M1[1] -40.52 dBm 3.306667 GHz</p> <p>D1 -18.210 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 3 SEP 2022 12:13:59</p>

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 0.62 dBm 2.4022170 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 3 SEP 2022 12:16:03</p>		
<p>CH00 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 1Pk Max M1[1] -51.19 dBm 711.9360 MHz D1 -19.380 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 3 SEP 2022 12:16:18</p>		
<p>CH00 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 1Pk Max M1[1] -37.74 dBm 3.202500 GHz D1 -19.380 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 3 SEP 2022 12:16:03</p>		

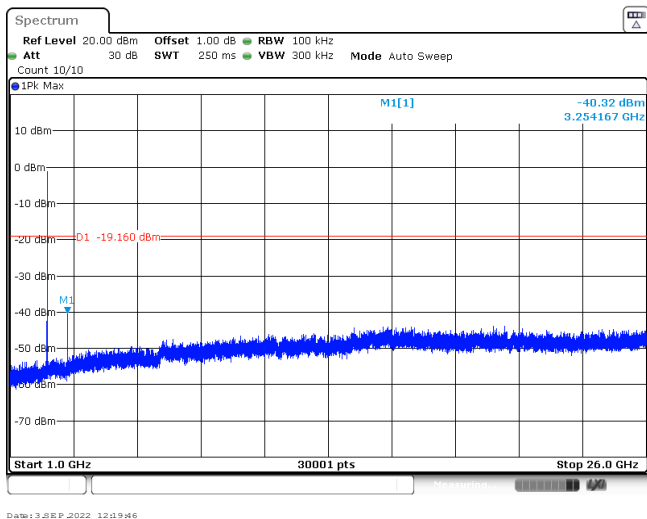
CH39  
Reference level



CH39  
30MHz~1000MHz

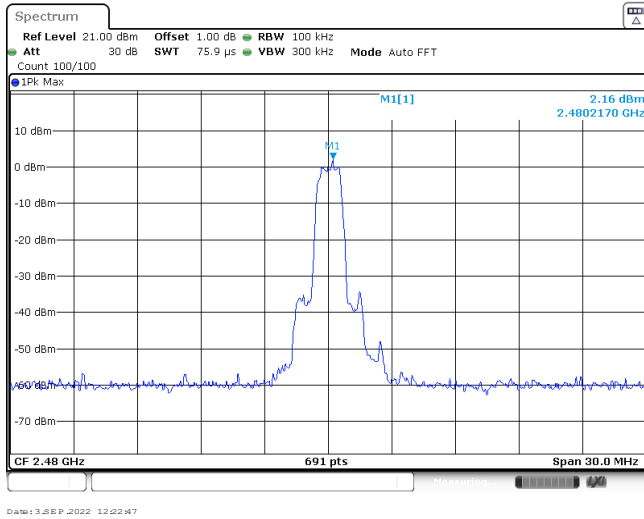


CH39  
1GHz~26GHz

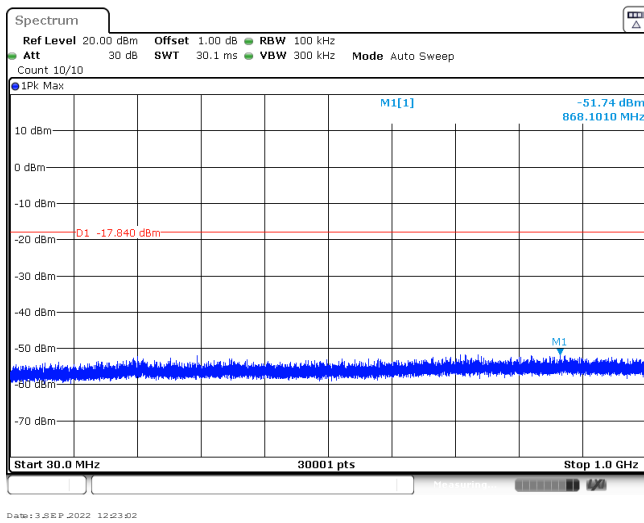




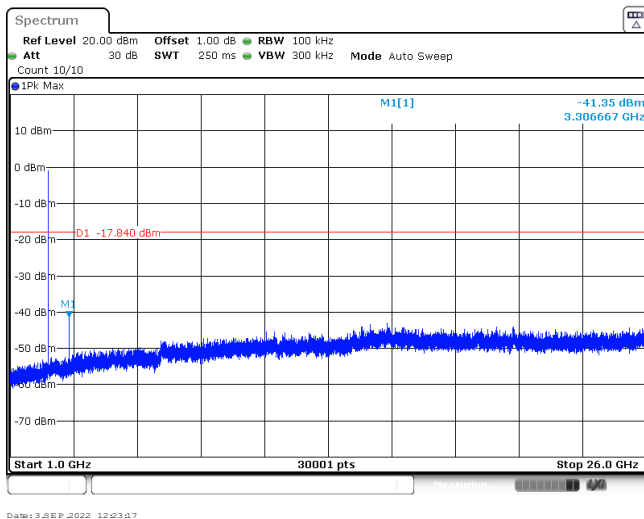
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



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