

# APPENDIX REPORT

Project No.	SHT2306097101EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT23060971001_02	Model No.	Fenix9 3G
Start test date	2023-07-05	Finish date	2023-07-05
Temperature	24.1℃	Humidity	51%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

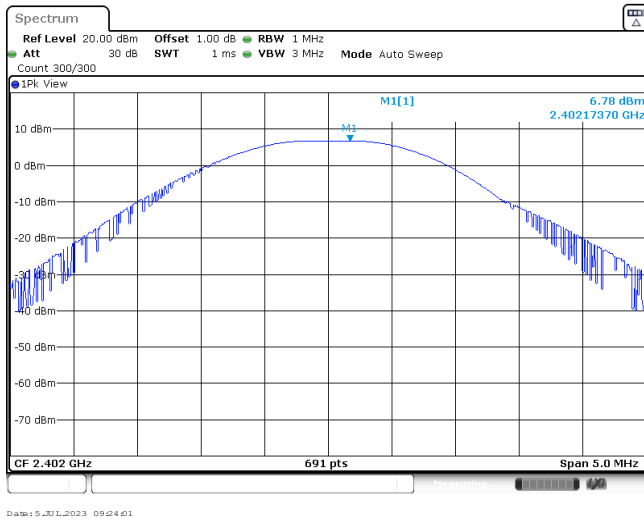
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

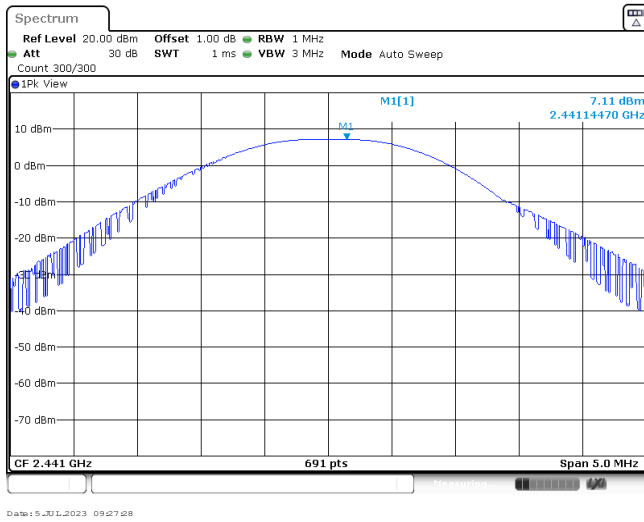
Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	6.78	6.74	≤ 30.00	Pass
	39	7.11	7.06		
	78	6.76	6.70		
π/4DQPSK	00	7.13	6.98	≤ 21.00	Pass
	39	7.92	7.46		
	78	7.52	7.11		
8DPSK	00	7.53	7.12	≤ 21.00	Pass
	39	8.27	7.82		
	78	7.91	7.63		

**Modulation Type: GFSK**

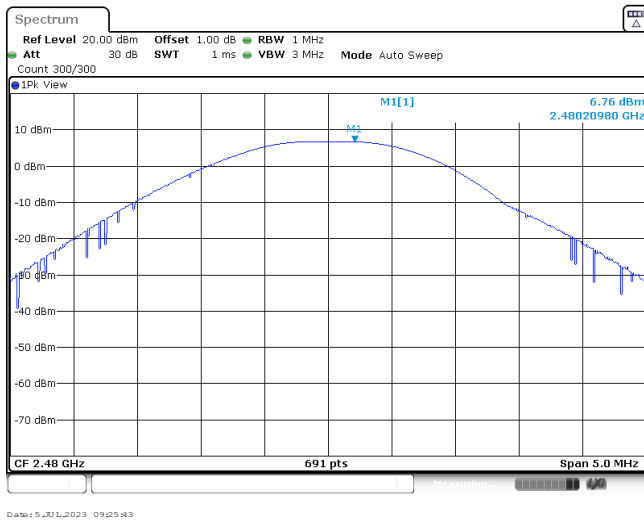
CH00



CH39



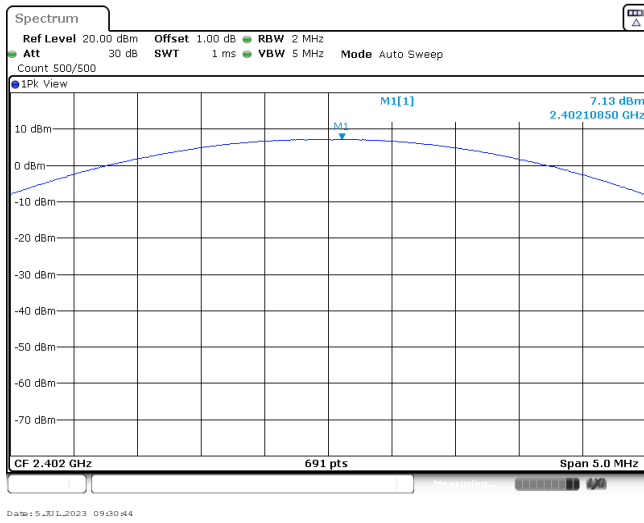
CH78



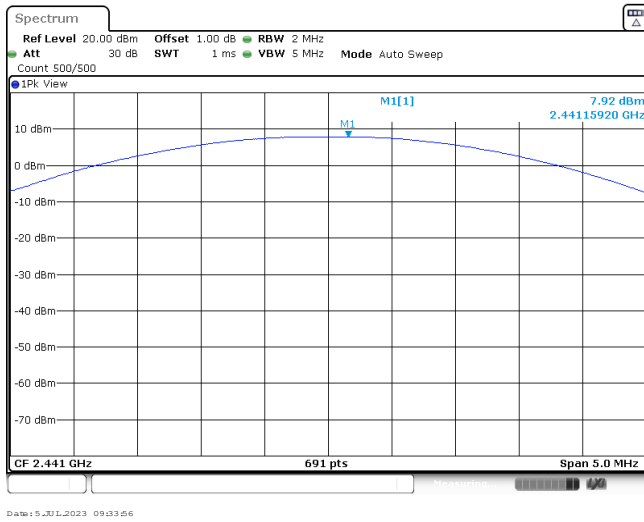
Modulation Type:

$\pi/4$ DQPSK

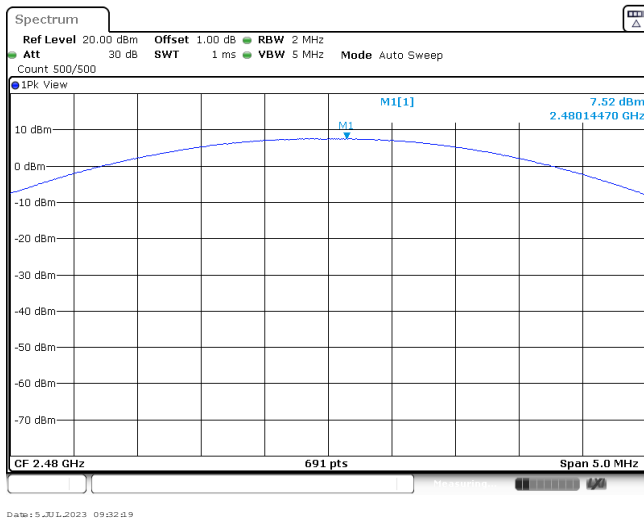
CH00



CH39



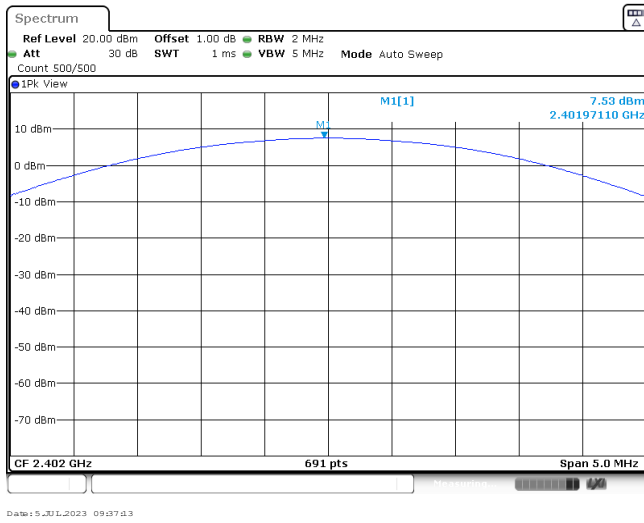
CH78



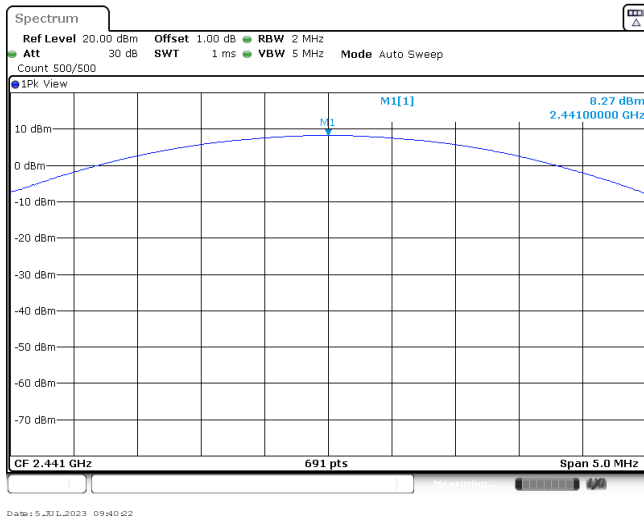
Modulation Type:

8DPSK

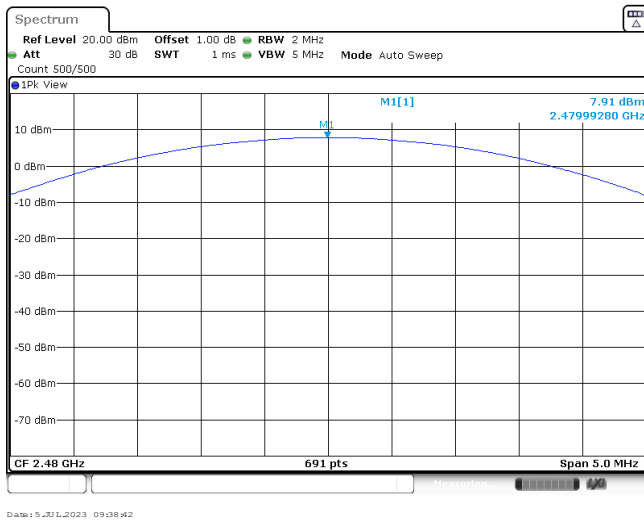
CH00



CH39



CH78

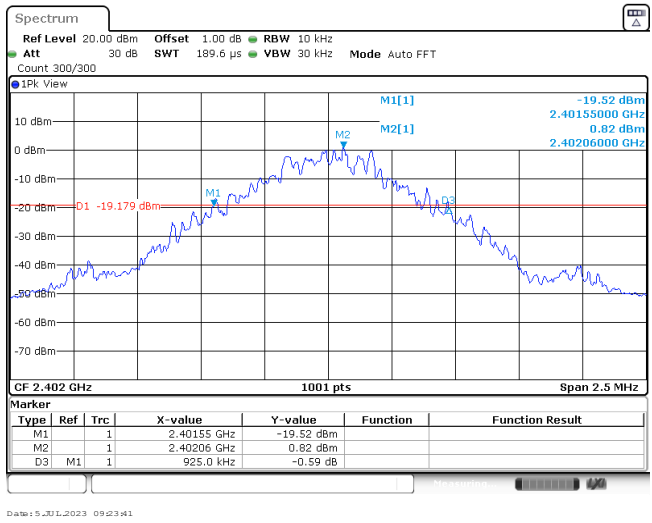


**Appendix B : 20 dB Bandwidth**

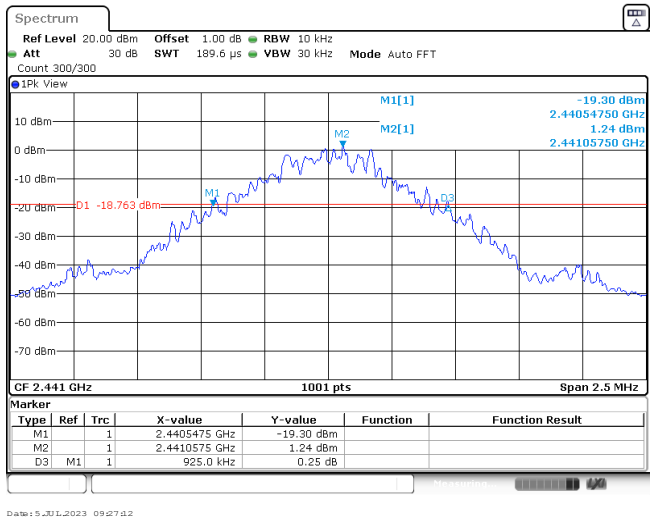
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	927.50		
$\pi/4$ DQPSK	00	1290.00	-	Pass
	39	1290.00		
	78	1292.50		
8DPSK	00	1295.00	-	Pass
	39	1295.00		
	78	1297.50		

**Modulation Type: GFSK**

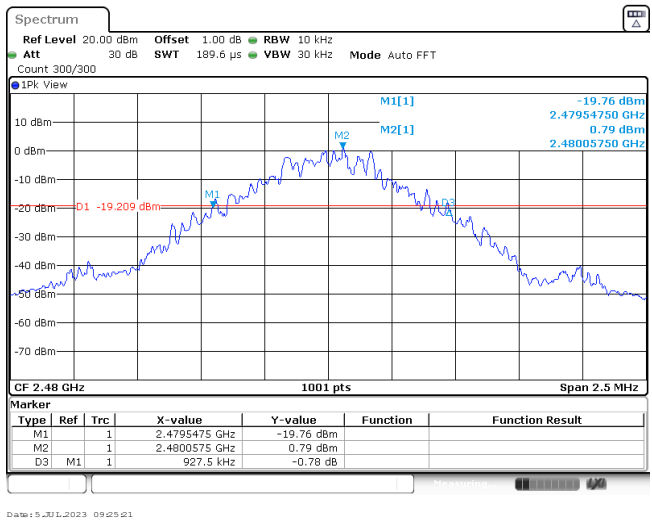
CH00



CH39

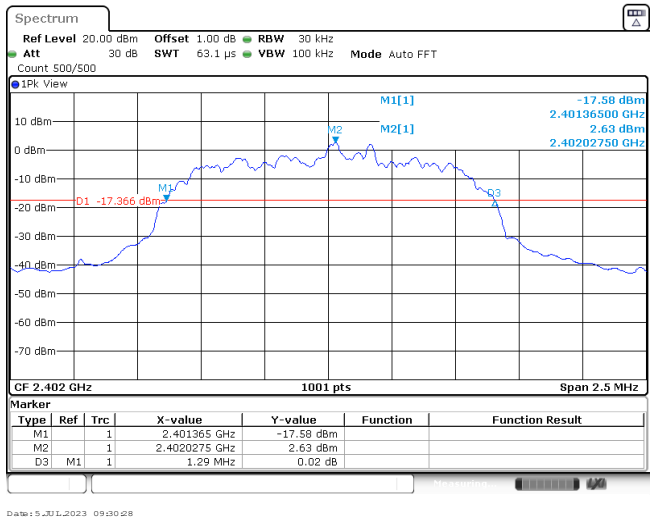


CH78

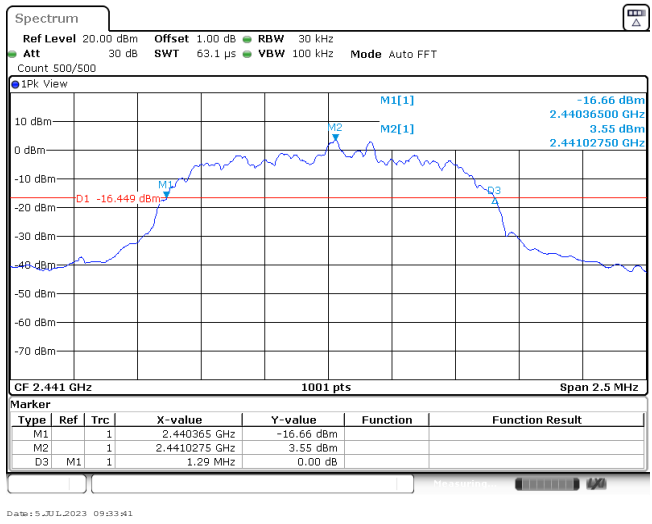


**Modulation Type:**  **$\pi/4$ DQPSK**

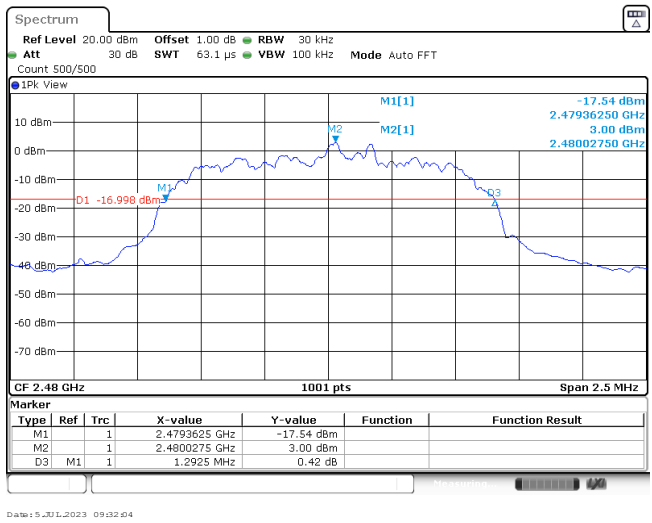
CH00



CH39



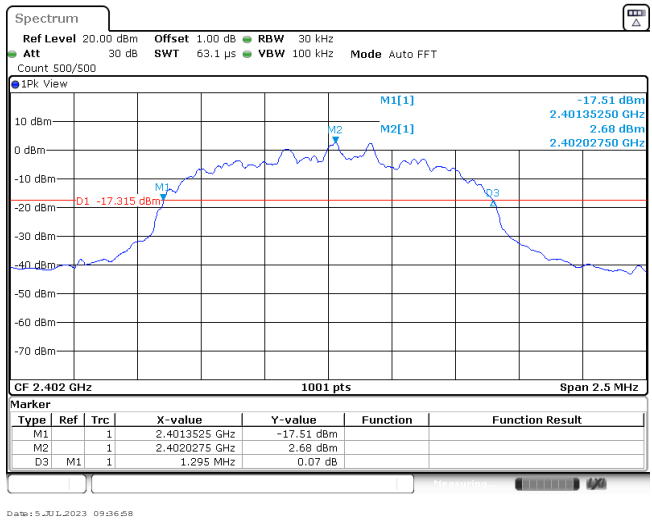
CH78



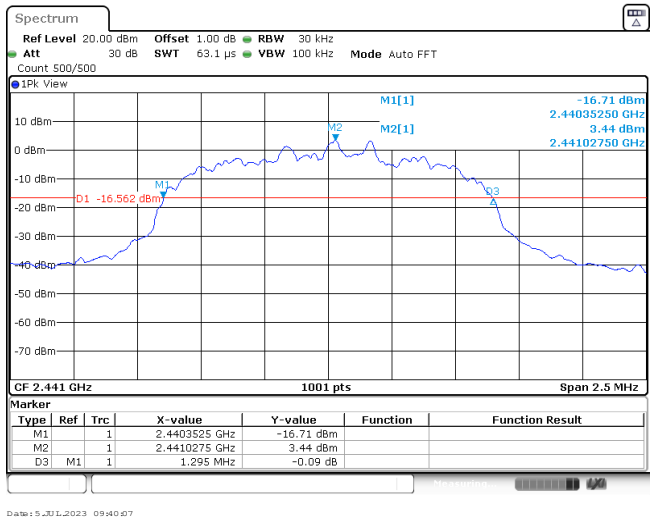


**Modulation Type: 8DPSK**

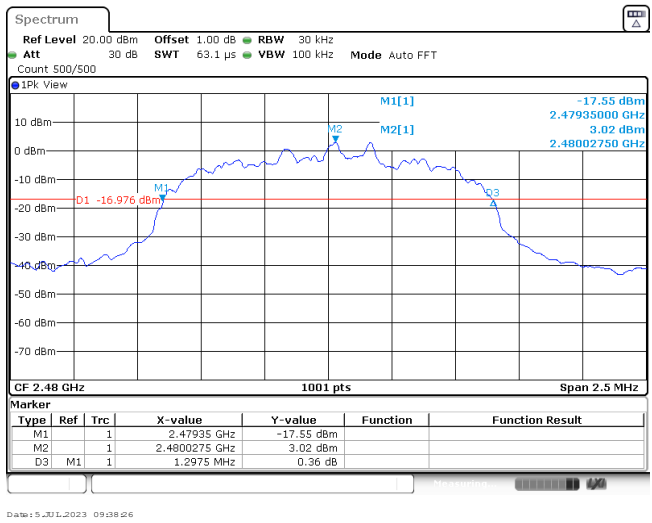
CH00



CH39



CH78

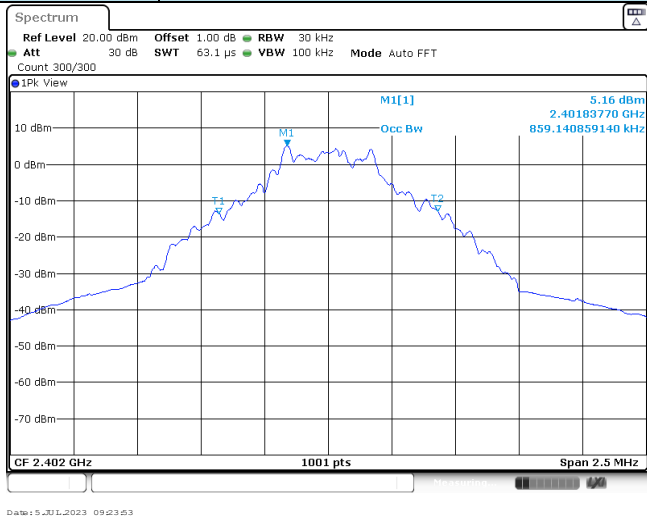


**Appendix C: 99% Occupied Bandwidth**

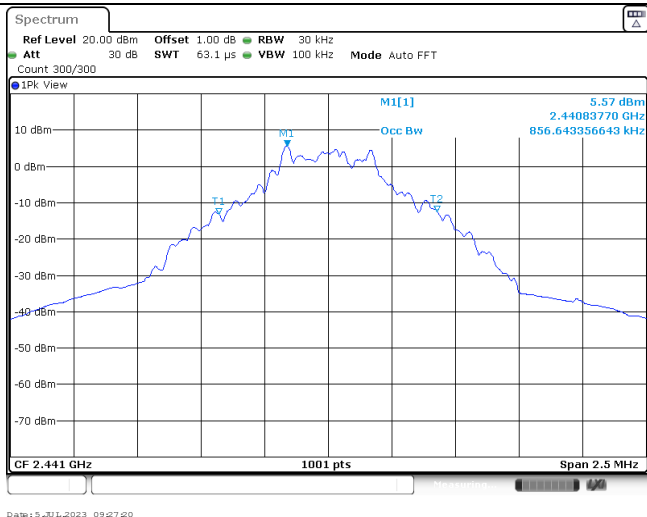
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.86	-	Pass
	39	0.86		
	78	0.86		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		

**Modulation Type: GFSK**

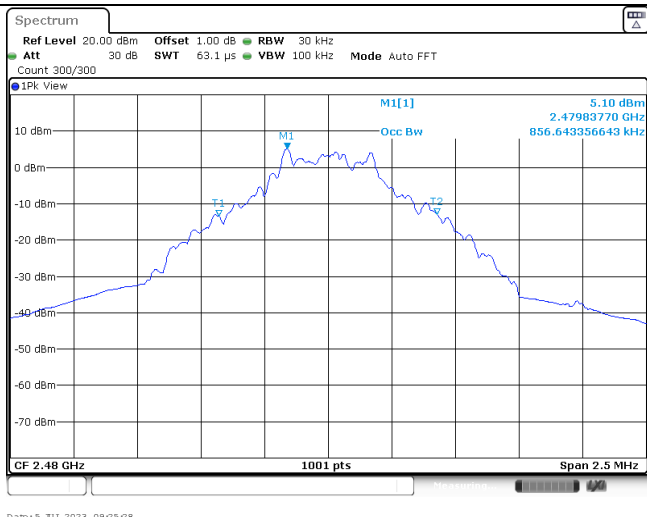
CH00



CH39



CH78



Modulation Type: $\pi/4$ QPSK	
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5_30_2023 09:30:36</p>
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5_30_2023 09:33:48</p>
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5_30_2023 09:32:11</p>

Modulation Type: 8DPSK	
CH00	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            10 dBm            0 dBm            -10 dBm            -20 dBm            -30 dBm            -40 dBm            -50 dBm            -60 dBm            -70 dBm            CF 2.402 GHz 1001 pts Span 2.5 MHz            Date: 5_30_2023 09:37:05</p>
CH39	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            10 dBm            0 dBm            -10 dBm            -20 dBm            -30 dBm            -40 dBm            -50 dBm            -60 dBm            -70 dBm            CF 2.441 GHz 1001 pts Span 2.5 MHz            Date: 5_30_2023 09:40:14</p>
CH78	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            10 dBm            0 dBm            -10 dBm            -20 dBm            -30 dBm            -40 dBm            -50 dBm            -60 dBm            -70 dBm            CF 2.48 GHz 1001 pts Span 2.5 MHz            Date: 5_30_2023 09:38:33</p>

**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥927.50	Pass
π/4DQPSK	39	1.00	≥861.67	Pass
8DPSK	39	1.00	≥865.00	Pass

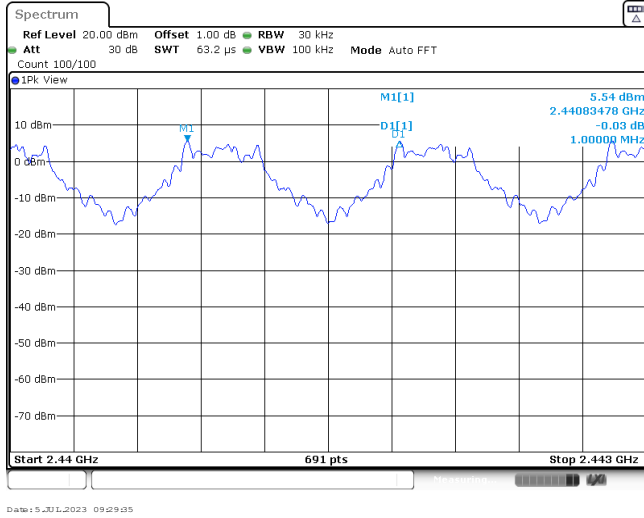
**Note:**

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

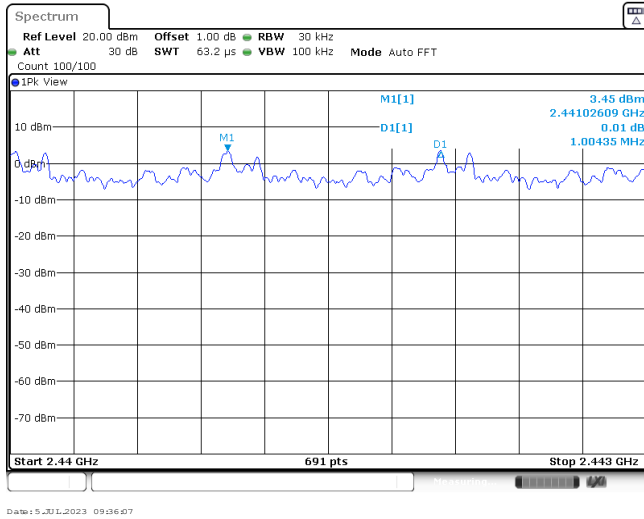
π/4DQPSK limit = 2/3 \* The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

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

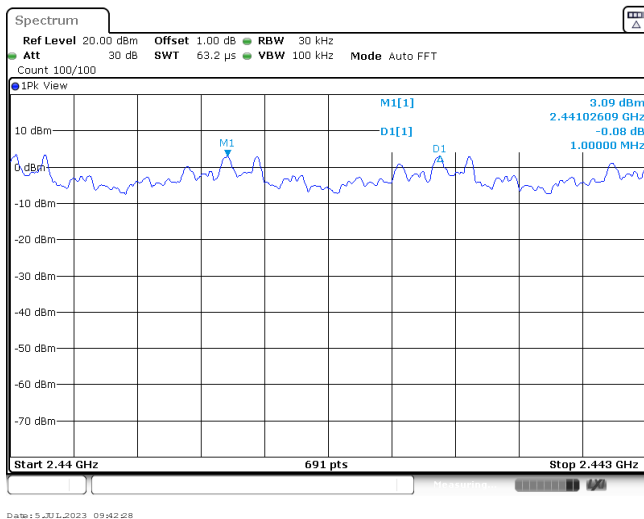
GFSK



$\pi/4$ DQPSK



8DPSK

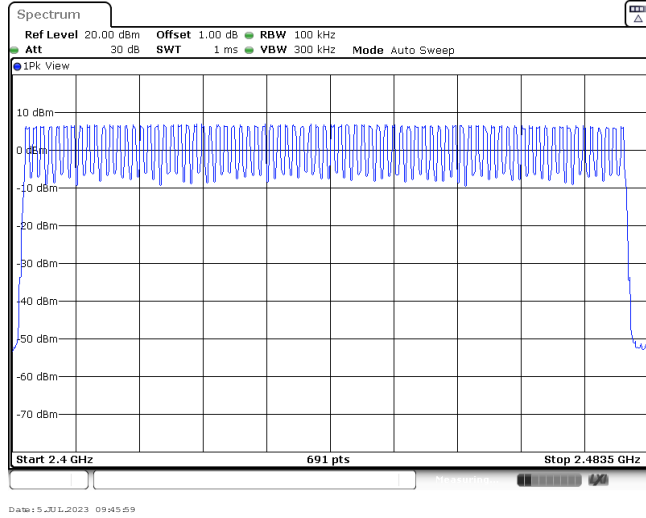


**Appendix E: Hopping Channel Number**

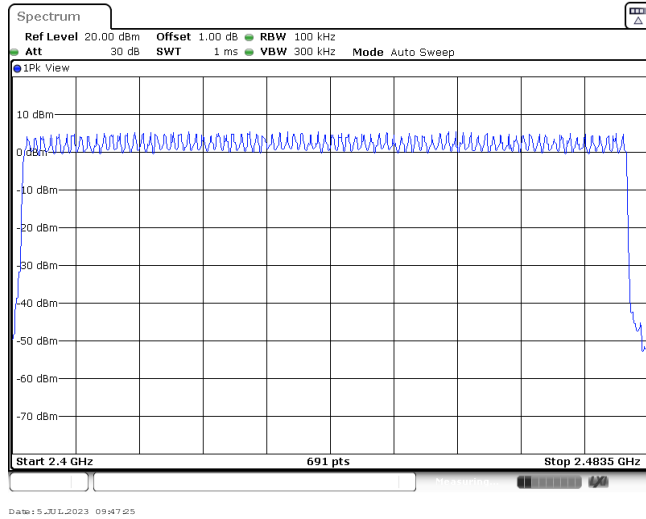
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



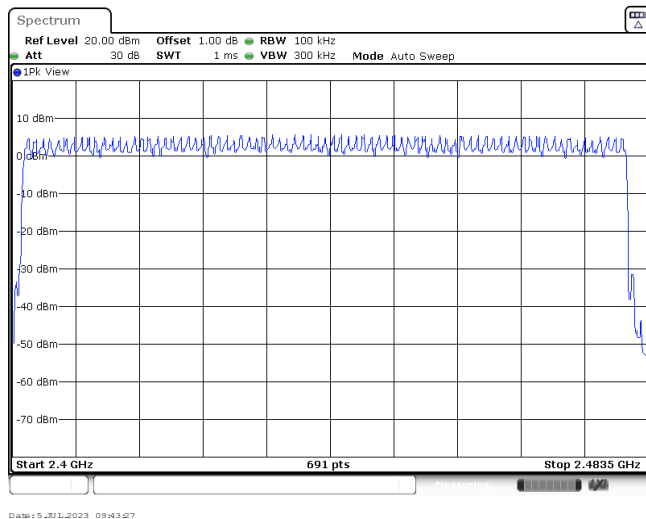
GFSK



$\pi/4$ DQPSK



8DPSK

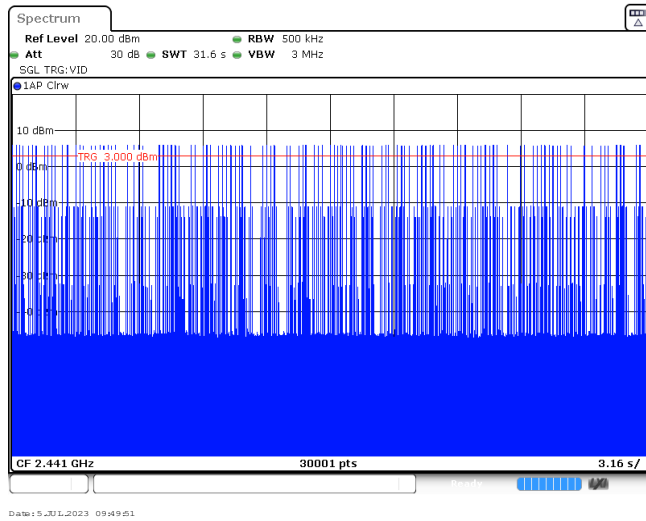


**Appendix F: Dwell Time**

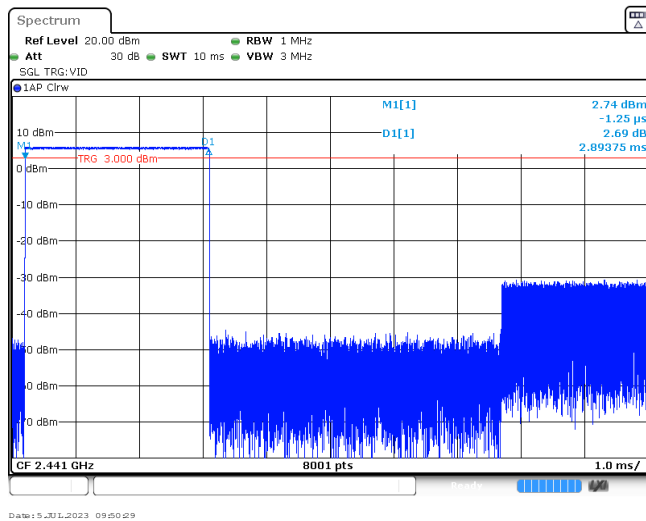
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	317	0.12	≤ 0.40	Pass
	DH3	1.65	151	0.25		
	DH5	2.89	119	0.34		
π/4DQPSK	2DH1	0.38	317	0.12	≤ 0.40	Pass
	2DH3	1.63	149	0.24		
	2DH5	2.88	114	0.33		
8DPSK	3DH1	0.38	318	0.12	≤ 0.40	Pass
	3DH3	1.63	146	0.24		
	3DH5	2.88	103	0.30		

Modulation Type: GFSK	
DH1 Burst width	
DH1 Burst number	
DH3 Burst width	

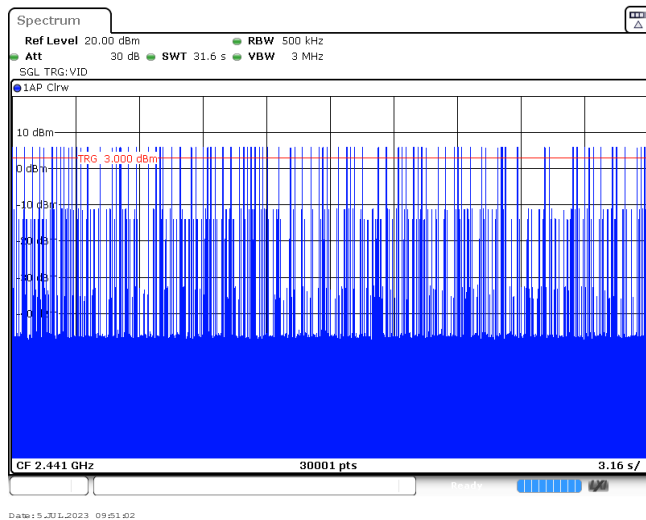
DH3  
Burst number



DH5  
Burst width

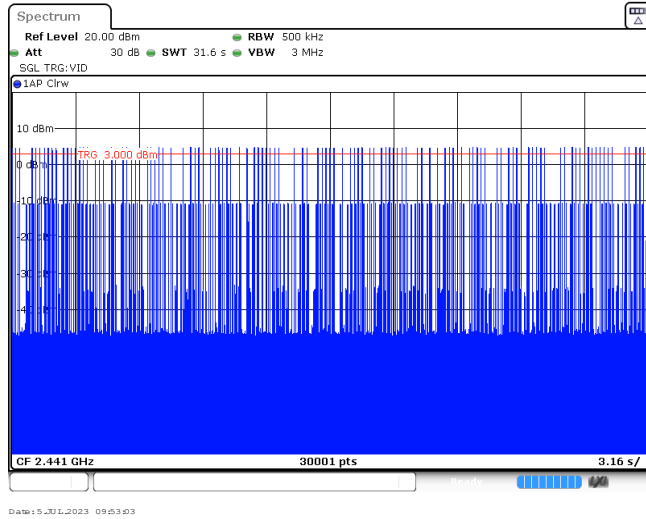


DH5  
Burst number

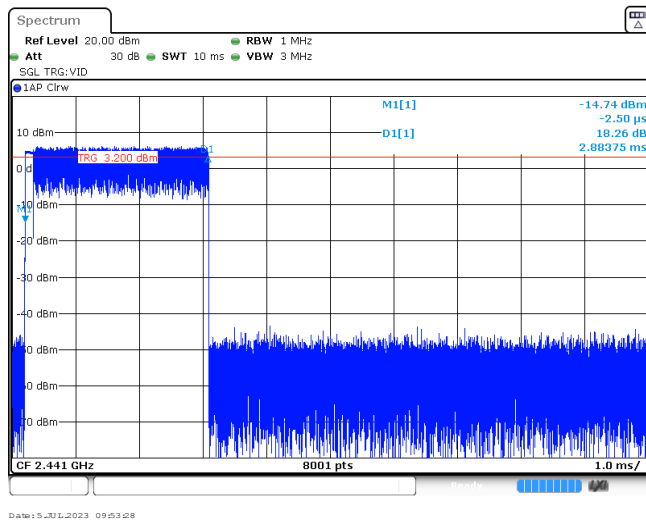


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	
2DH1 Burst number	
2DH3 Burst width	

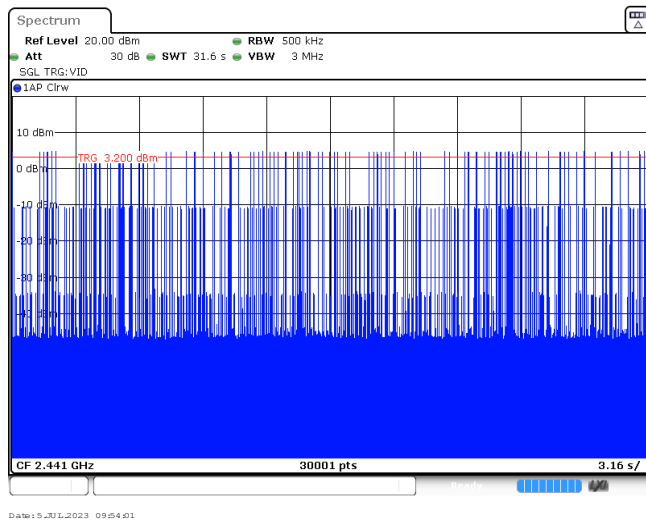
2DH3  
Burst number



2DH5  
Burst width

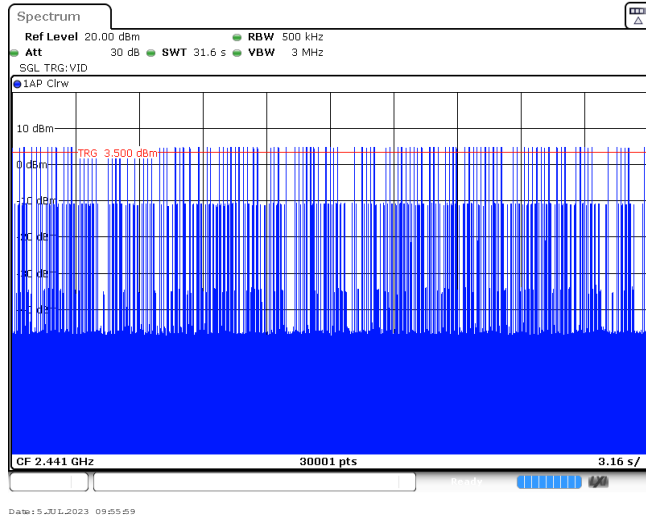


2DH5  
Burst number

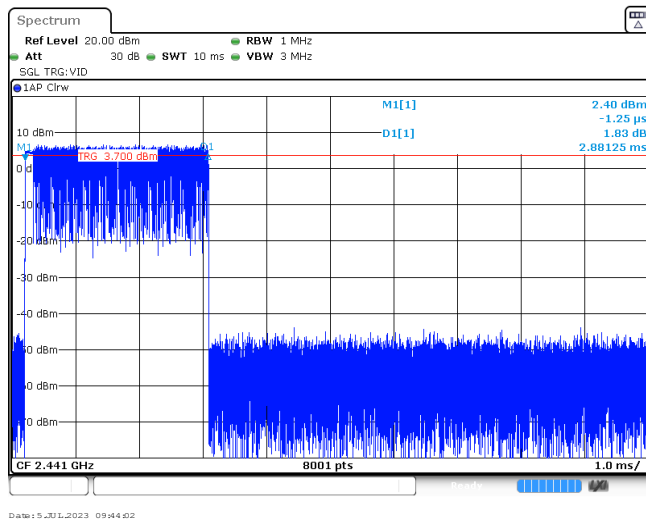


Modulation Type: 8DPSK	
3DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/s</p> <p>Date: 5 JUL 2023 09:54:28</p>
3DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/s</p> <p>Date: 5 JUL 2023 09:55:01</p>
3DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/s</p> <p>Date: 5 JUL 2023 09:55:26</p>

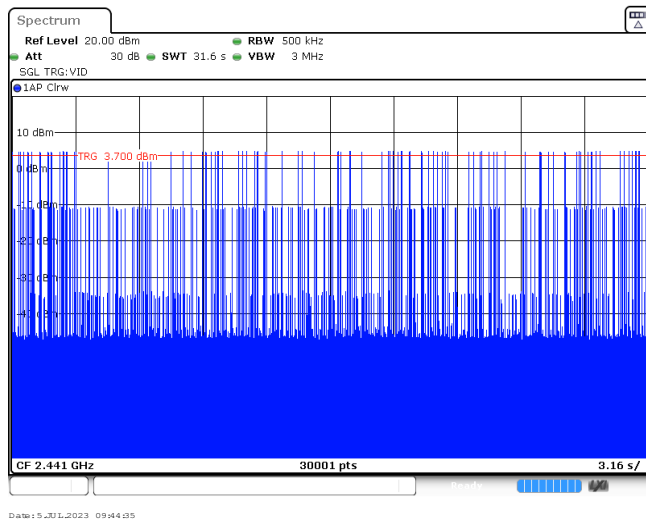
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

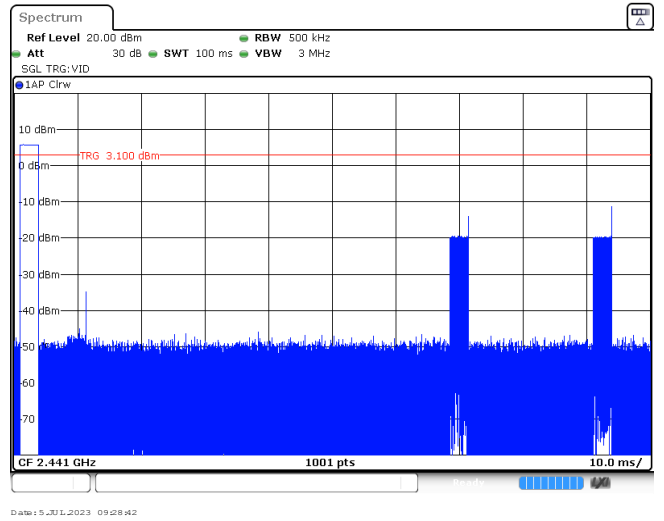
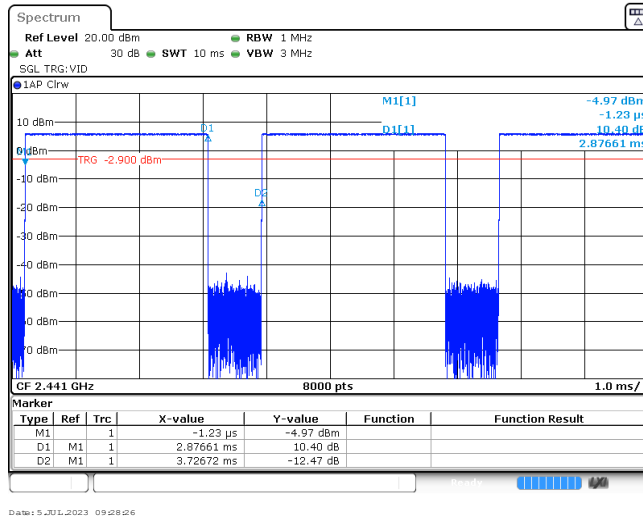




**Appendix G: Duty Cycle Correction Factor (DCCF)**

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log( $T_{\text{on time}} / T_{\text{period}}$ )					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	$T_{\text{period}}$ [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.88	100	1	-30.81
$\pi/4$ DQPSK	2441	2.86	100	2	-24.85
8DPSK	2441	2.86	100	1	-30.87

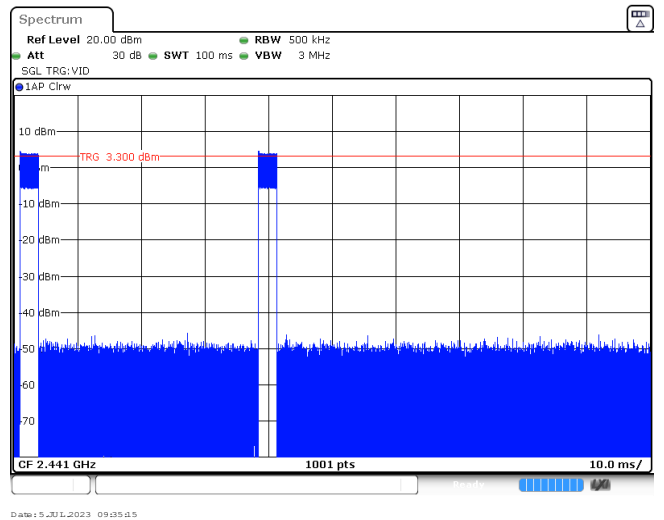
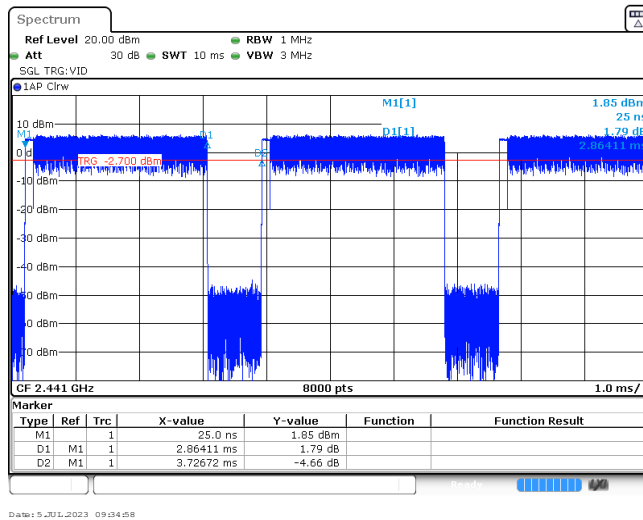
GFSK



Ton time for single burst

Burst Quantity

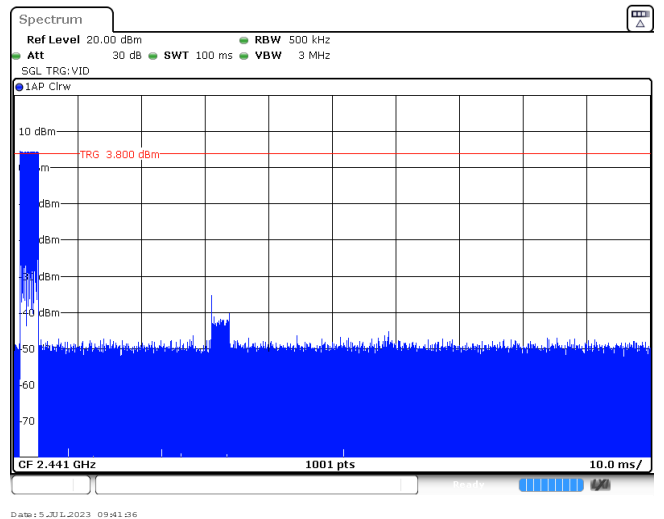
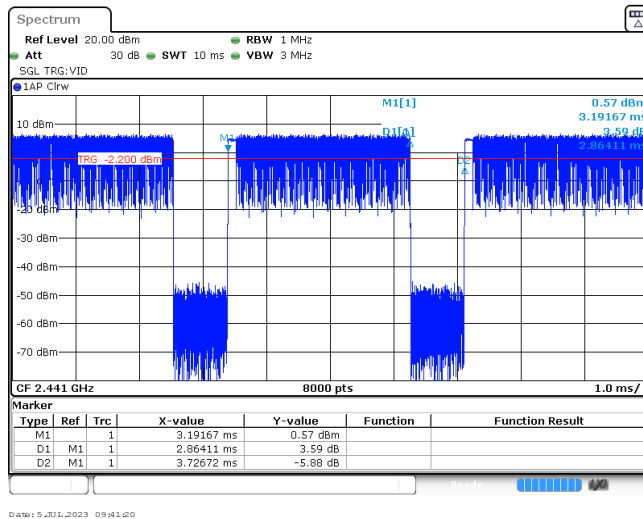
$\pi/4$  DQPSK



Ton time for single burst

Burst Quantity

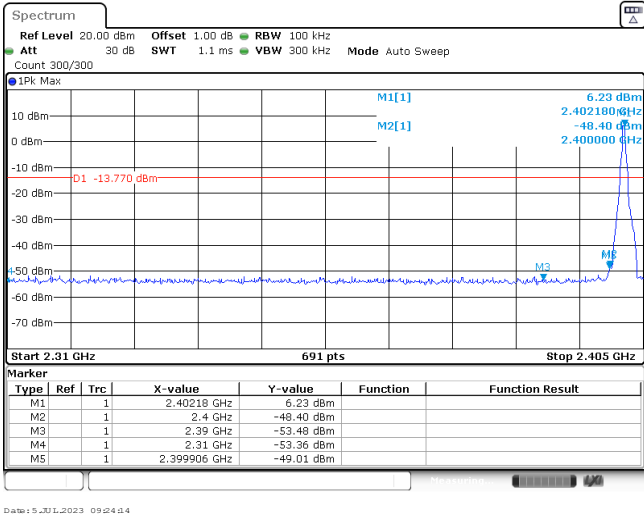
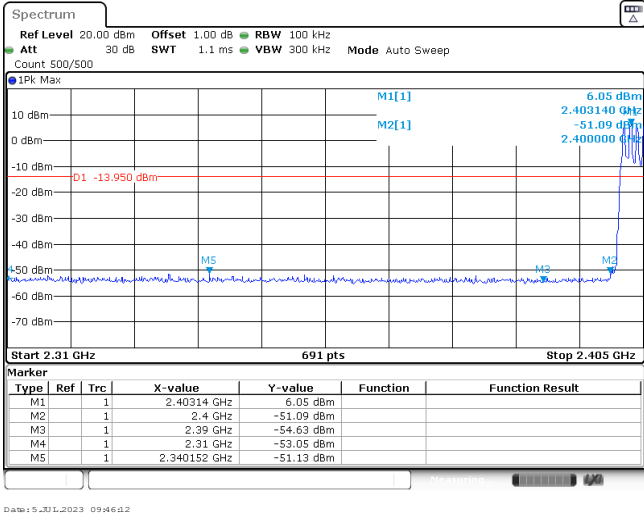
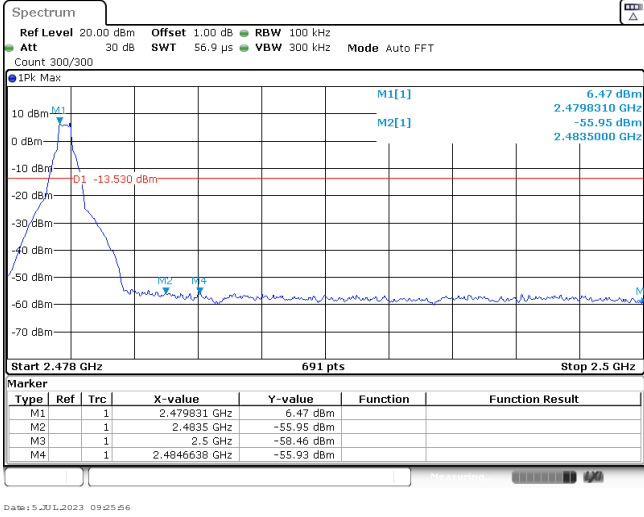
8DPSK



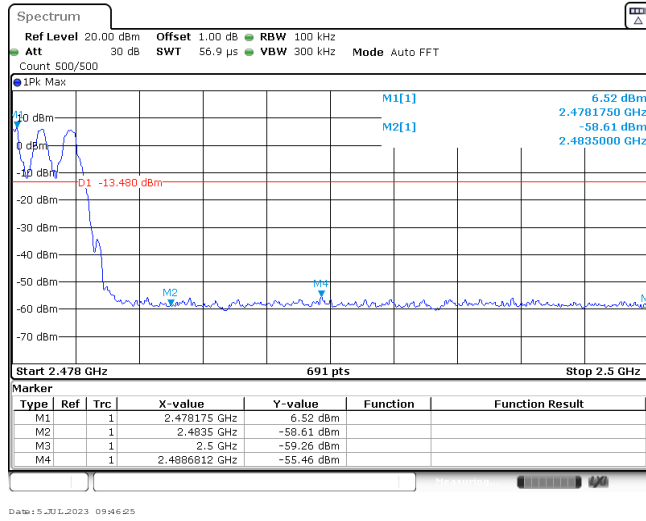
Ton time for single burst

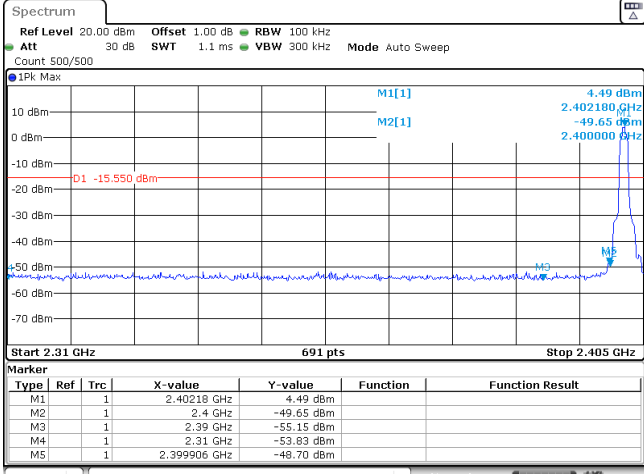
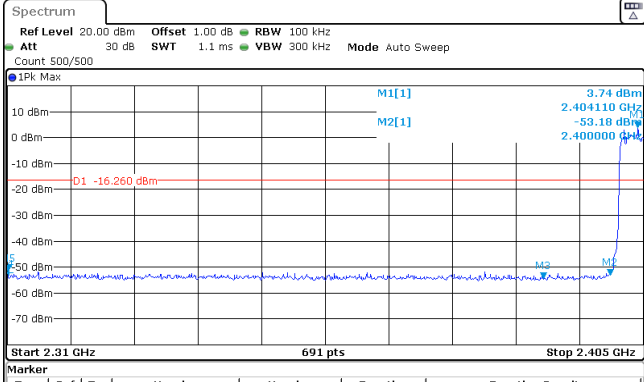
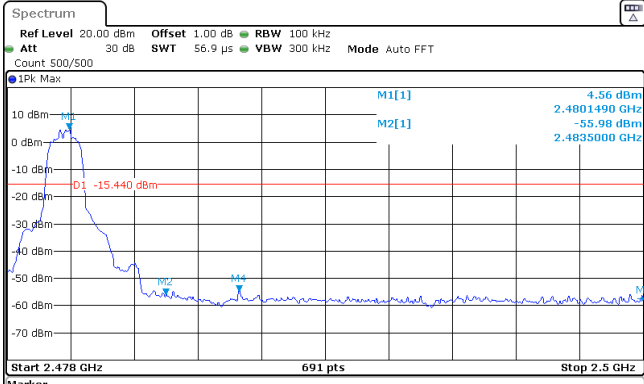
Burst Quantity

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

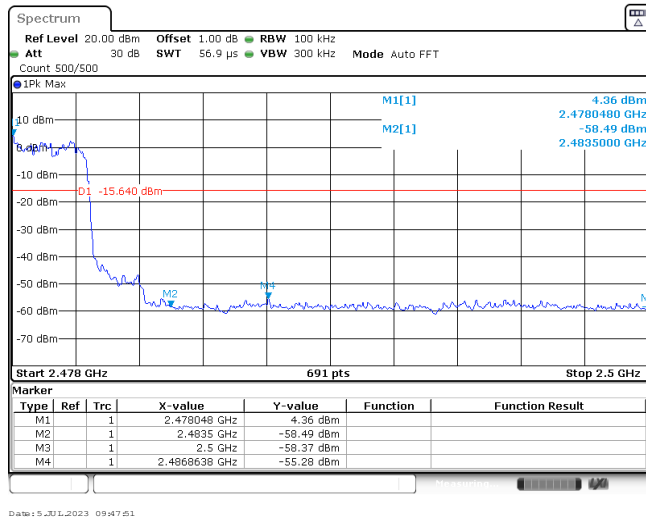
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="686 728 1332 824"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40218 GHz</td> <td>6.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-53.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-53.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-49.01 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	6.23 dBm			M2	1		2.4 GHz	-48.40 dBm			M3	1		2.39 GHz	-53.48 dBm			M4	1		2.31 GHz	-53.36 dBm			M5	1		2.399906 GHz	-49.01 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40218 GHz	6.23 dBm																																									
M2	1		2.4 GHz	-48.40 dBm																																									
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M4	1		2.31 GHz	-53.36 dBm																																									
M5	1		2.399906 GHz	-49.01 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="686 1272 1332 1368"> <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>2.40314 GHz</td> <td>6.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-51.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-53.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.340152 GHz</td> <td>-51.13 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40314 GHz	6.05 dBm			M2	1		2.4 GHz	-51.09 dBm			M3	1		2.39 GHz	-54.63 dBm			M4	1		2.31 GHz	-53.05 dBm			M5	1		2.340152 GHz	-51.13 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40314 GHz	6.05 dBm																																									
M2	1		2.4 GHz	-51.09 dBm																																									
M3	1		2.39 GHz	-54.63 dBm																																									
M4	1		2.31 GHz	-53.05 dBm																																									
M5	1		2.340152 GHz	-51.13 dBm																																									
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CH78  
Hopping mode



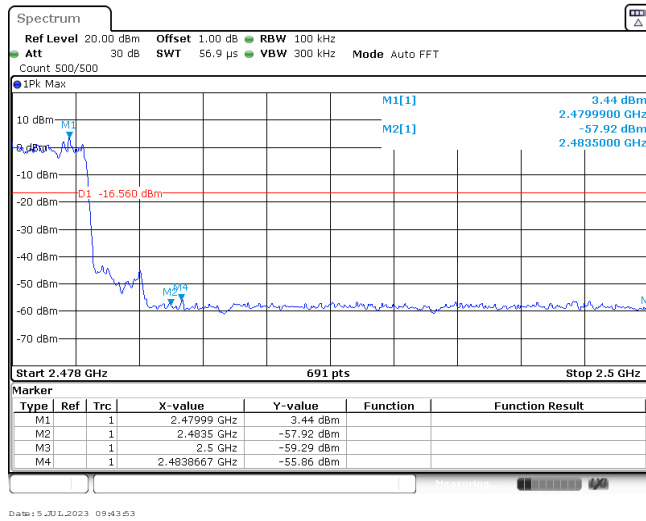
Test Item:	Band edge	Modulation type:	π/4DQPSK																																										
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CH78  
Hopping mode

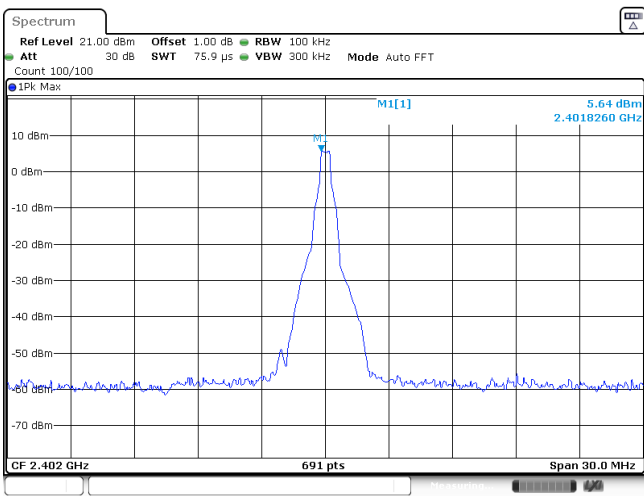
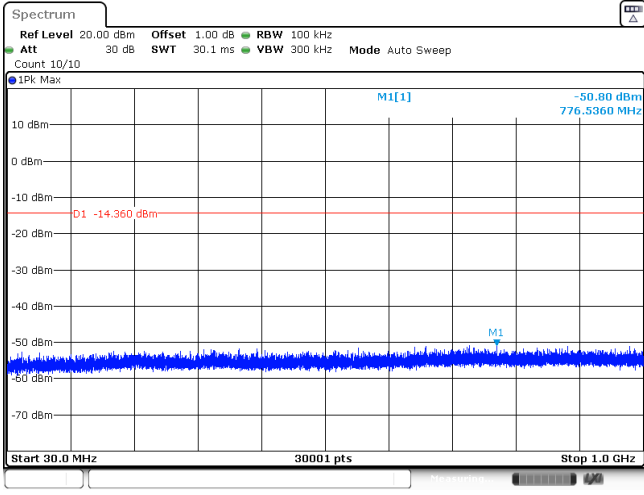
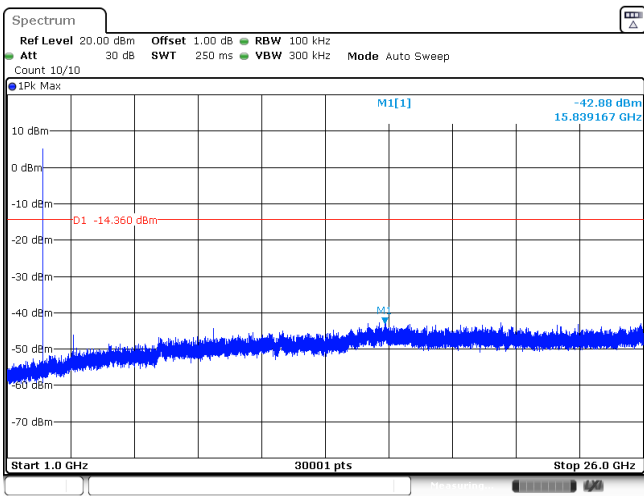


Test Item:	Band edge	Modulation type:	8DPSK																																																
<p>CH00 No hopping mode</p>	<table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1</td> <td>2.40218 GHz</td> <td>4.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-49.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-53.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-53.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>1</td> <td>2.39963 GHz</td> <td>-48.77 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1	2.40218 GHz	4.49 dBm			M2	1		1	2.4 GHz	-49.80 dBm			M3	1		1	2.39 GHz	-53.36 dBm			M4	1		1	2.31 GHz	-53.07 dBm			M5	1		1	2.39963 GHz	-48.77 dBm		
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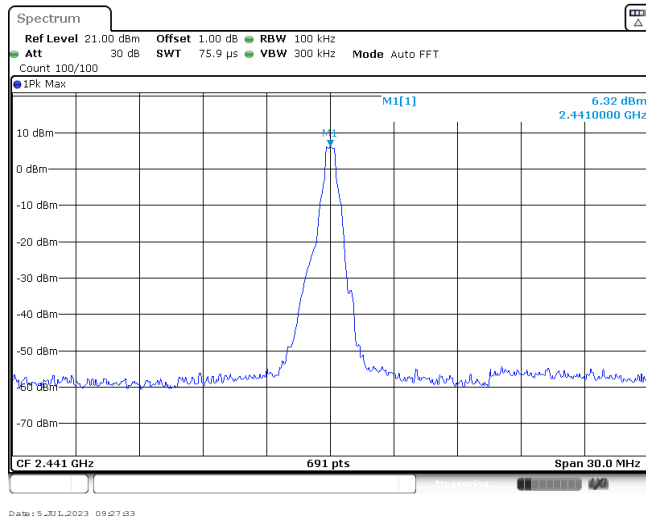
CH78  
Hoppig mode



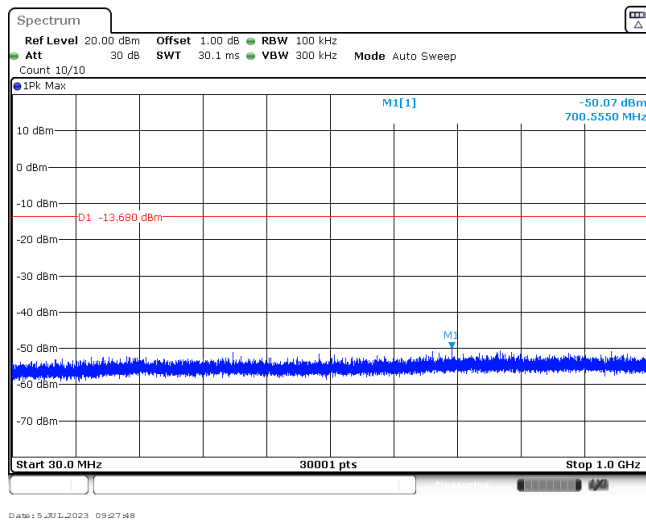


Test Item:	Spurious Emission	Modulation type:	GFSK
<p>CH00 Reference level</p>	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] 5.64 dBm 2.4018260 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 5_JUL_2023 09:24:22</p>		
<p>CH00 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>1Pk Max</p> <p>M1[1] -50.80 dBm 776.5360 MHz</p> <p>D1 -14.360 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 5_JUL_2023 09:24:37</p>		
<p>CH00 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>1Pk Max</p> <p>M1[1] -42.88 dBm 15.839167 GHz</p> <p>D1 -14.360 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 5_JUL_2023 09:24:52</p>		

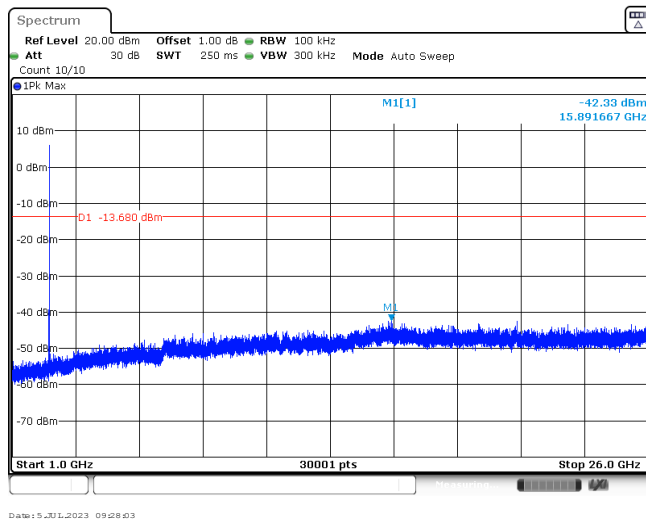
CH39  
Reference level



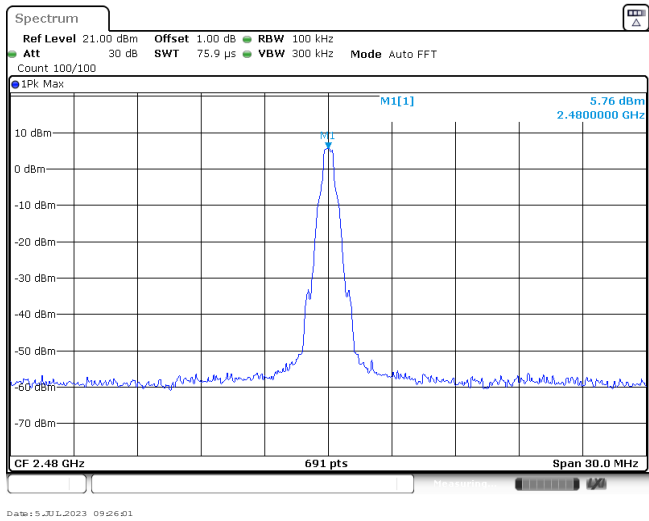
CH39  
30MHz~1000MHz



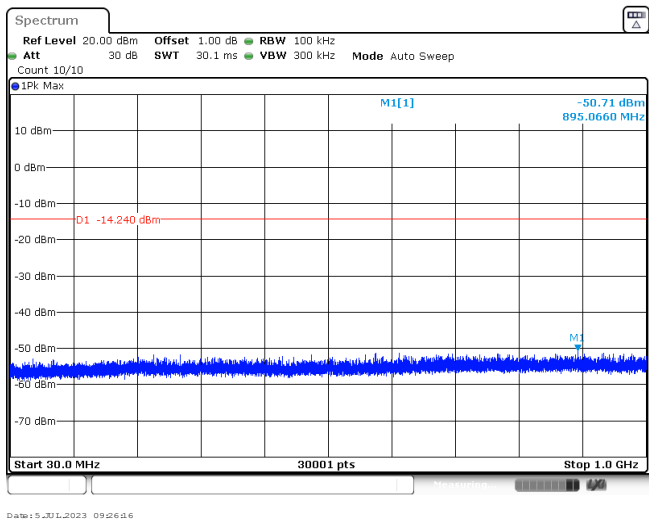
CH39  
1GHz~26GHz



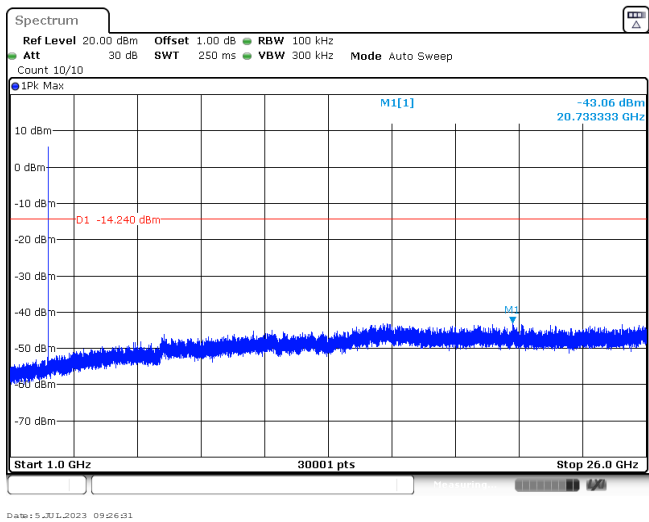
CH78  
Reference level

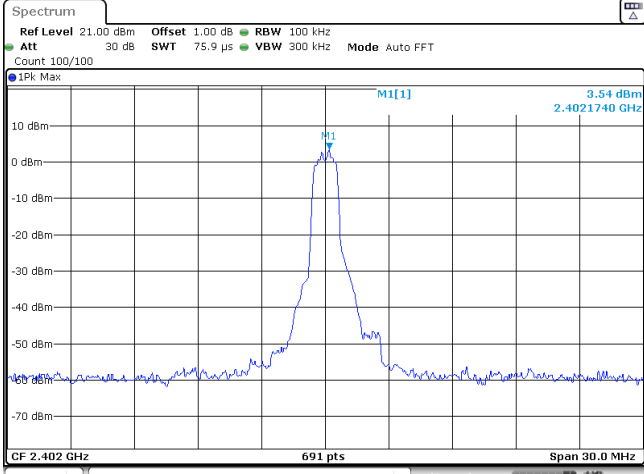
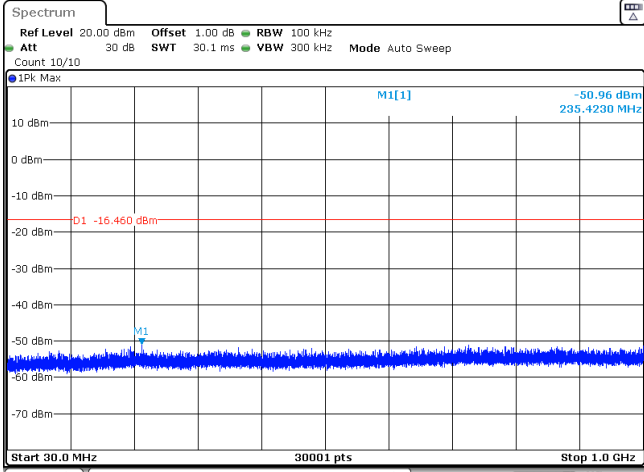
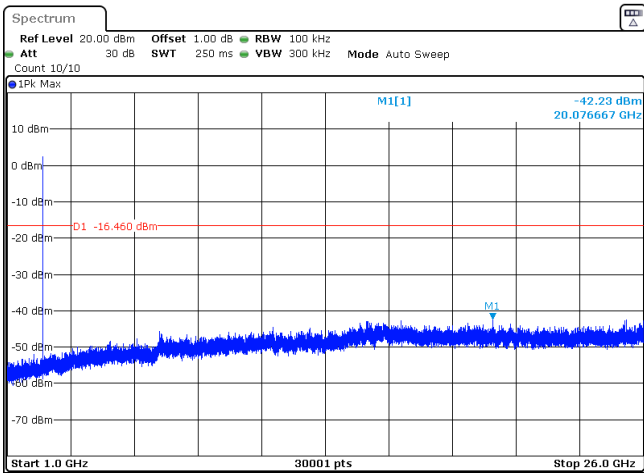


CH78  
30MHz~1000MHz

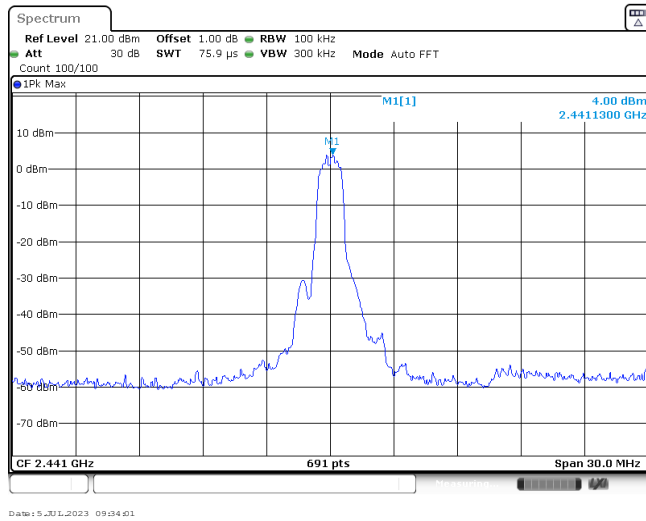


CH78  
1GHz~26GHz

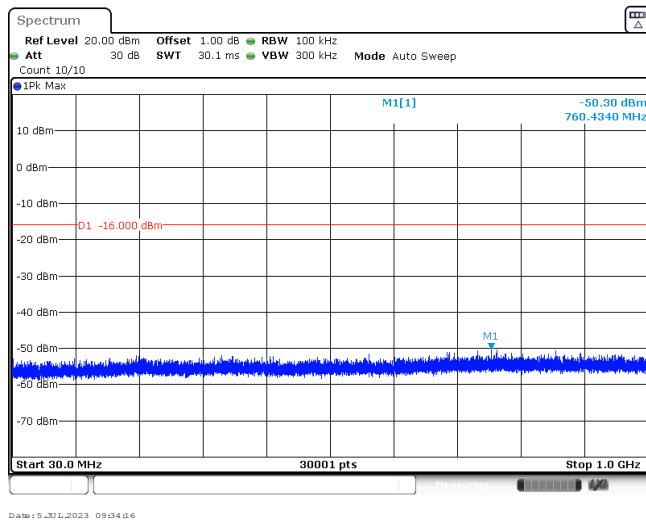


Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>3.54 dBm 2.4021740 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 5_JUL_2023 09:31:02</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>-50.96 dBm 235.4230 MHz</p> <p>D1 -16.460 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 5_JUL_2023 09:31:17</p>		
<p>CH00 1GHz~26GHz</p>	 <p>-42.23 dBm 20.076667 GHz</p> <p>D1 -16.460 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 5_JUL_2023 09:31:02</p>		

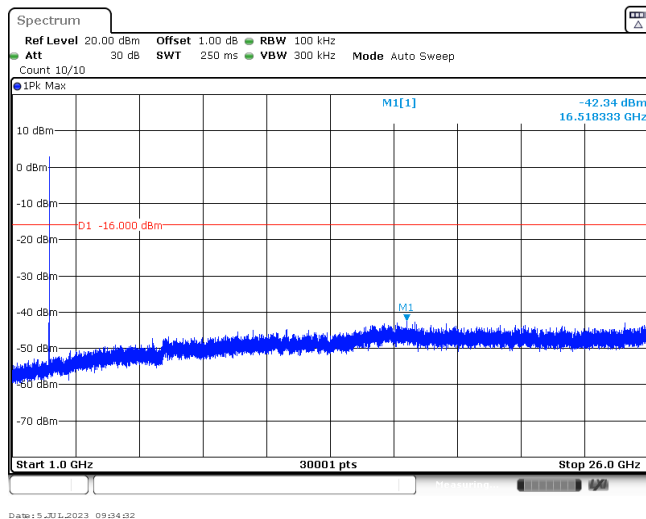
CH39  
Reference level



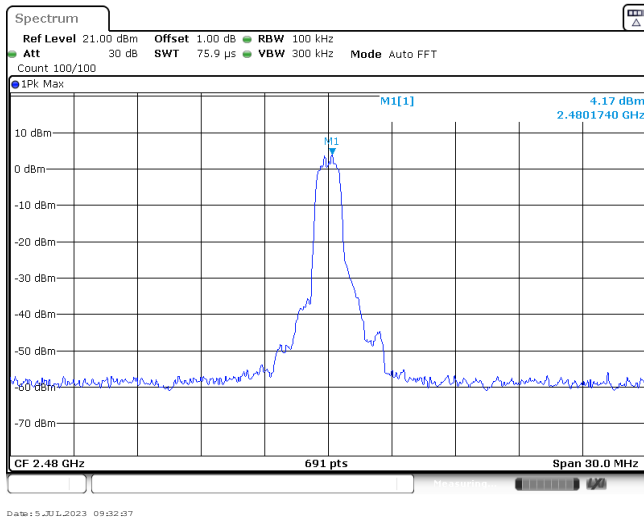
CH39  
30MHz~1000MHz



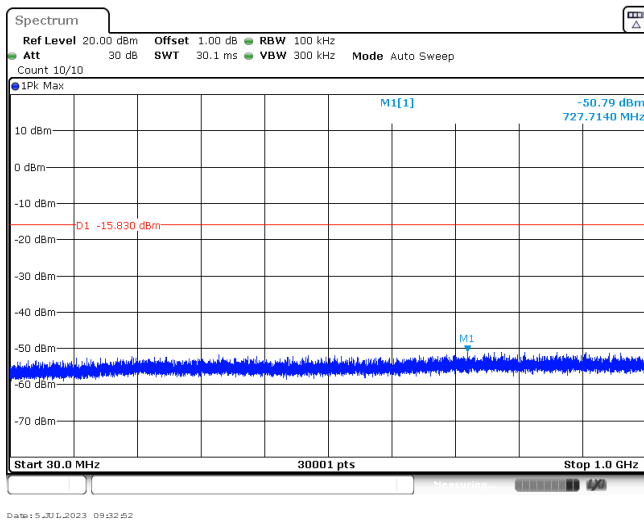
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1GHz~26GHz



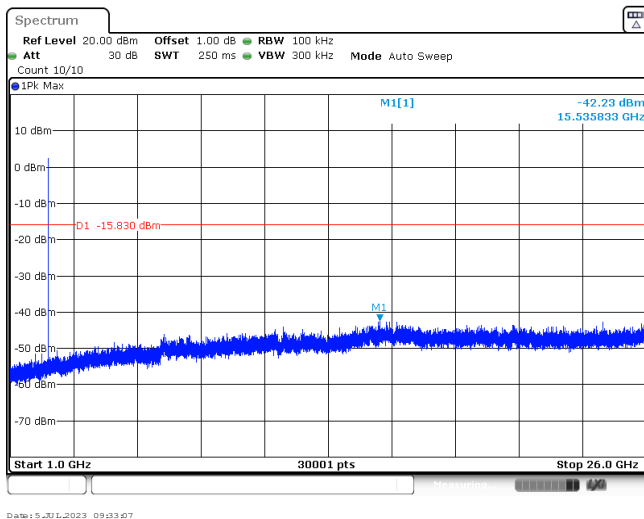
CH78  
Reference level

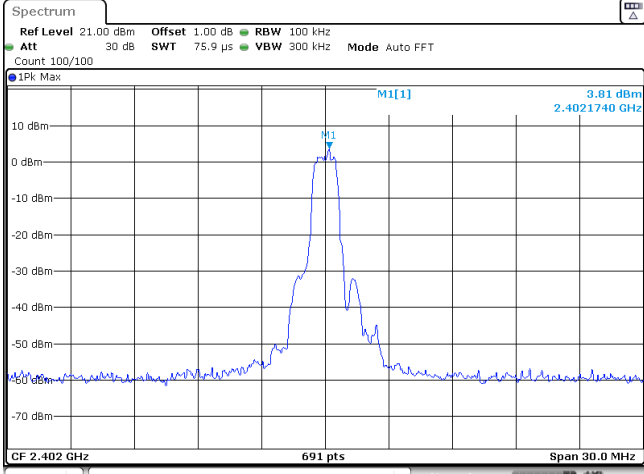
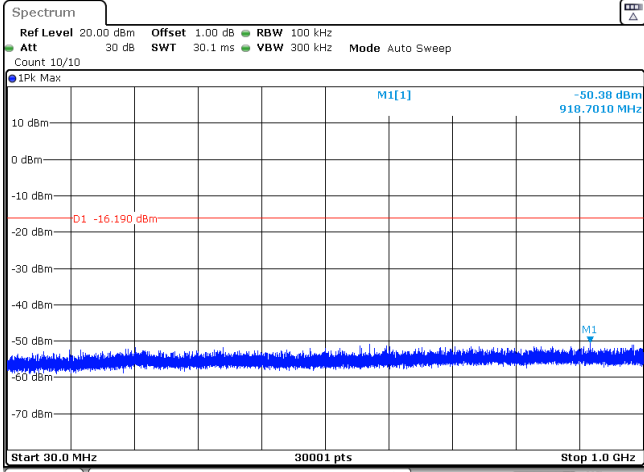
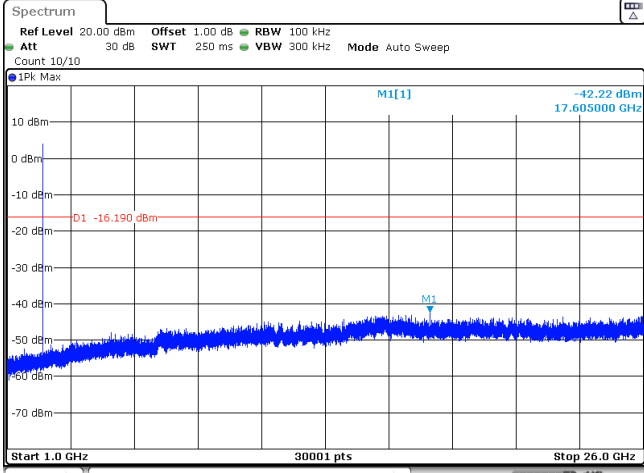


CH78  
30MHz~1000MHz

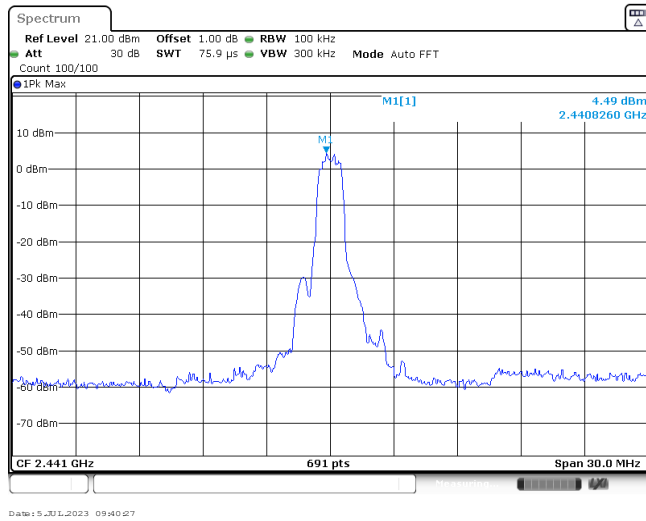


CH78  
1GHz~26GHz

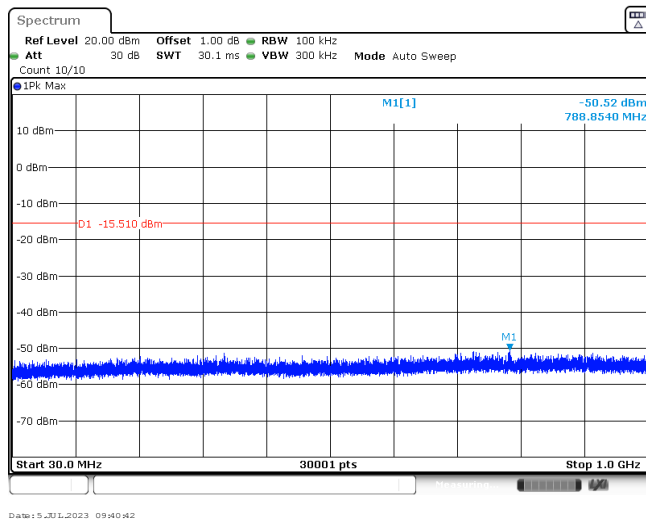


Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 5_JUL_2023 09:37:32</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 5_JUL_2023 09:37:46</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 5_JUL_2023 09:38:02</p>		

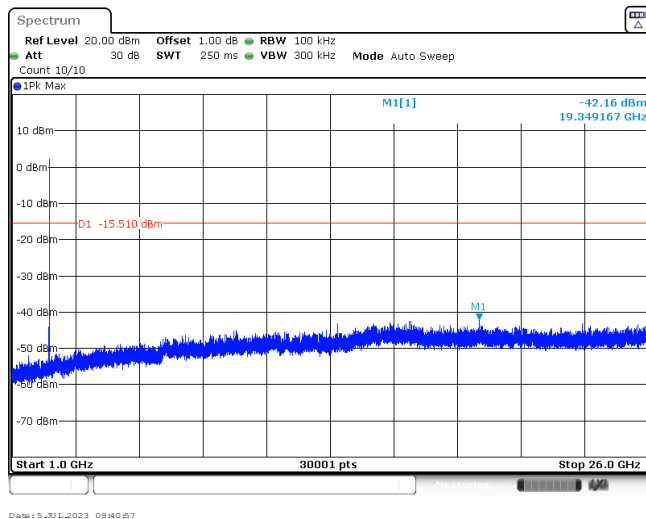
CH39  
Reference level



CH39  
30MHz~1000MHz

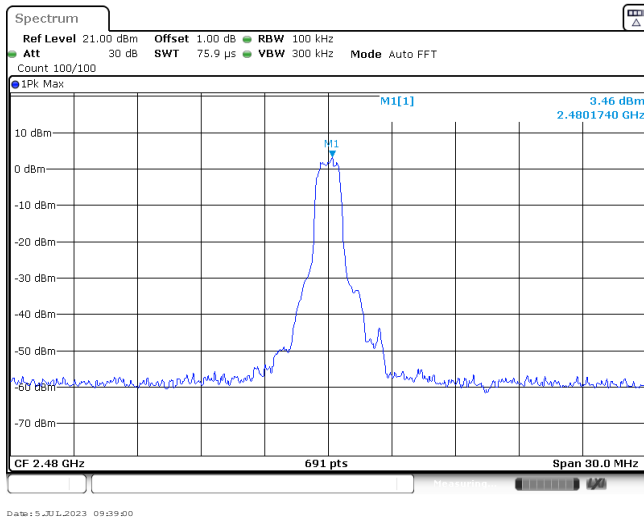


CH39  
1GHz~26GHz

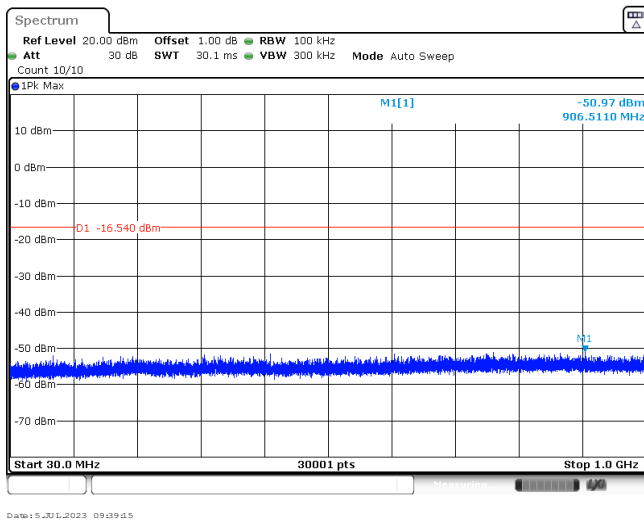




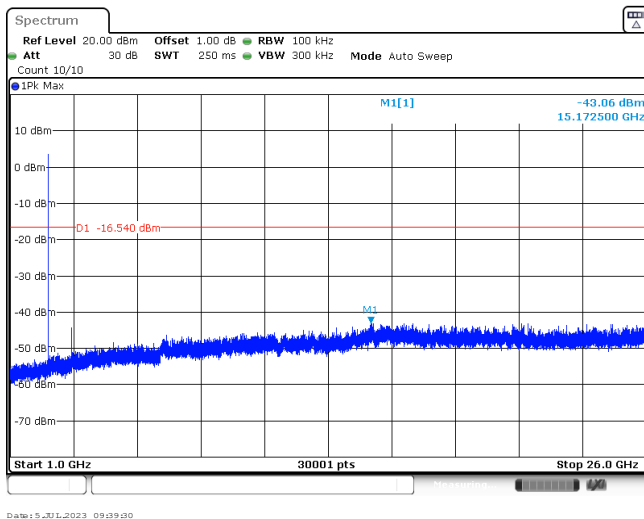
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



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