

APPENDIX REPORT

Project No.	SHT2102011314EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21020113009	Model No.	ABX00042
Start test date	2021-03-30	Finish date	2021-03-30
Temperature	24.5°C	Humidity	45%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhu

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

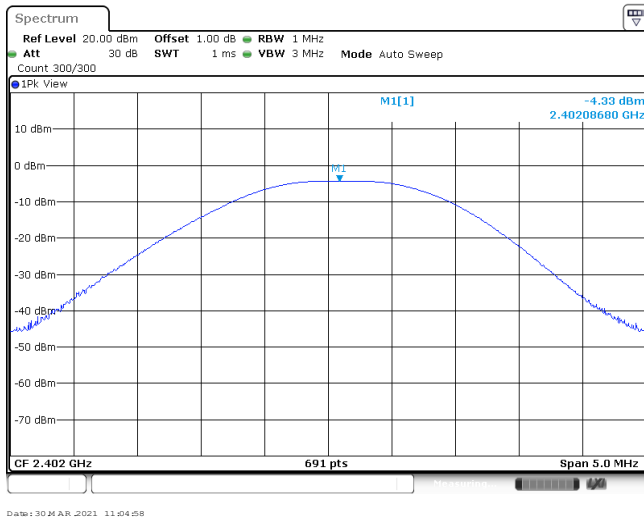
Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-4.33	-4.34	≤ 30.00	Pass
	39	-4.82	-4.83		
	78	-5.02	-5.03		
π/4DQPSK	00	-0.64	-1.53	≤ 21.00	Pass
	39	-1.18	-2.31		
	78	-1.20	-2.09		
8DPSK	00	-0.12	-1.68	≤ 21.00	Pass
	39	-0.66	-2.27		
	78	-0.67	-1.94		

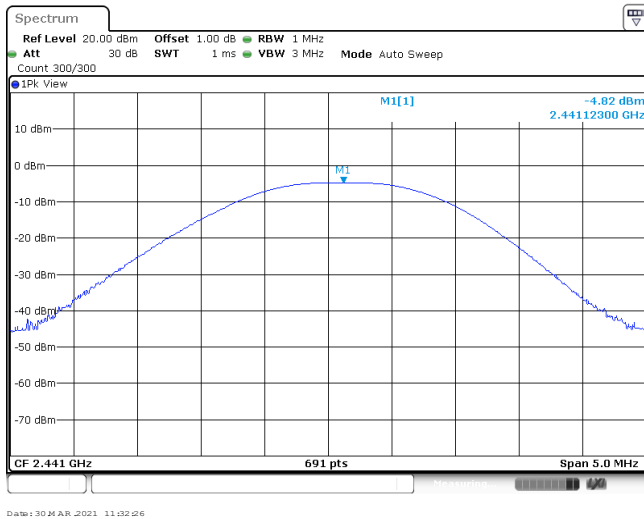
Modulation Type:

GFSK

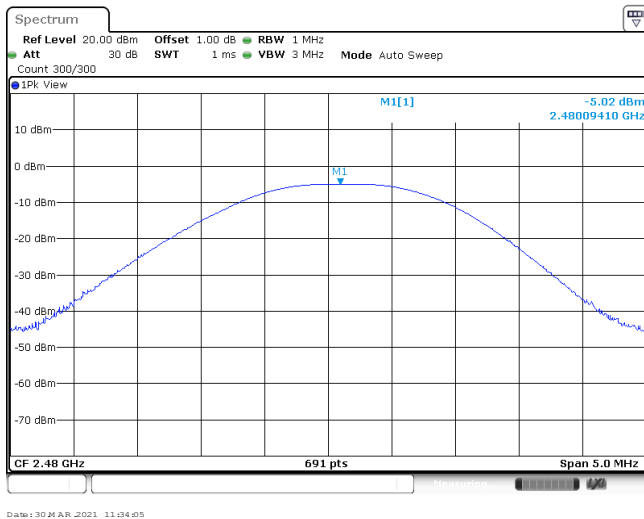
CH00



CH39

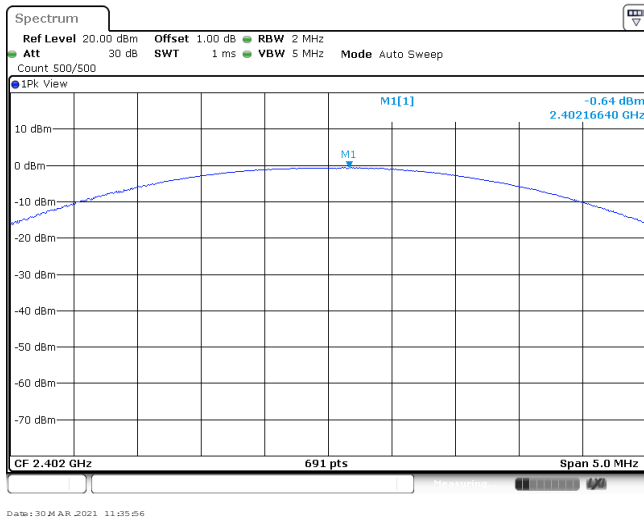


CH78

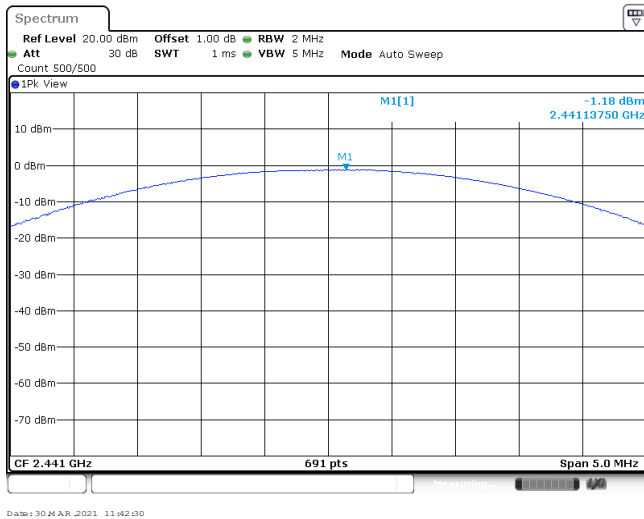


Modulation Type: $\pi/4$ DQPSK

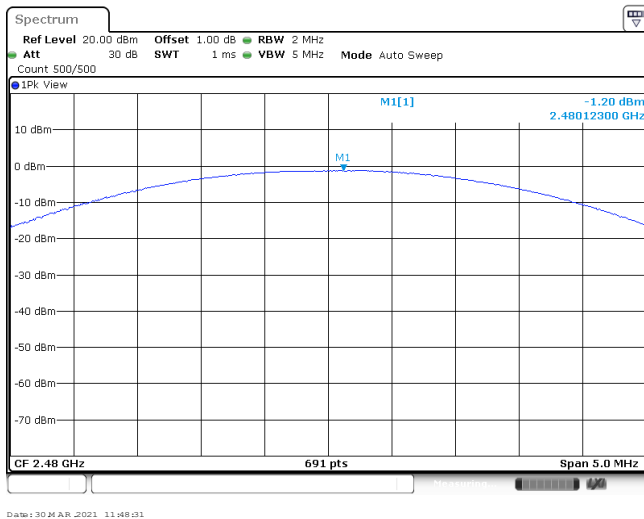
CH00



CH39



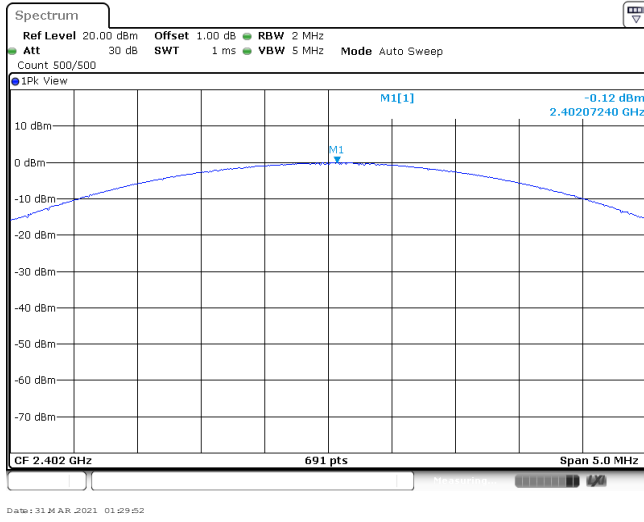
CH78



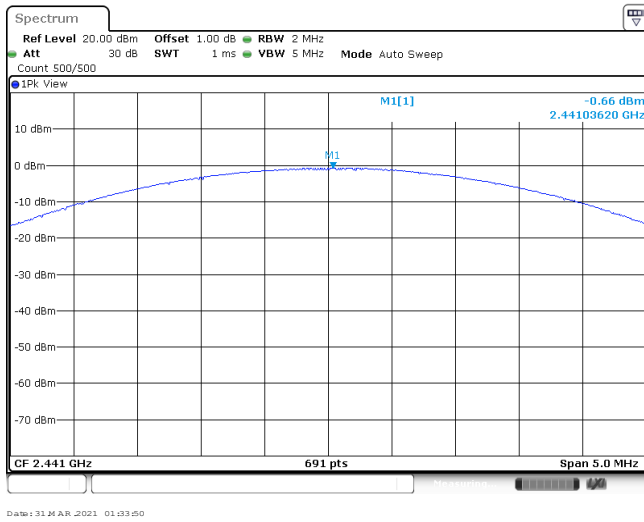
Modulation Type:

8DPSK

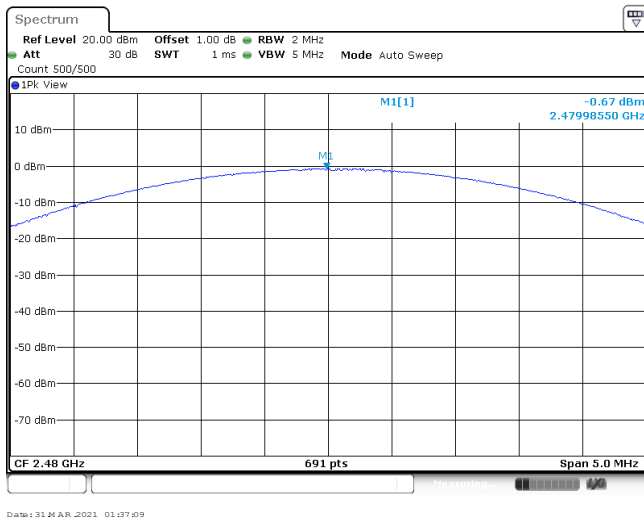
CH00



CH39



CH78

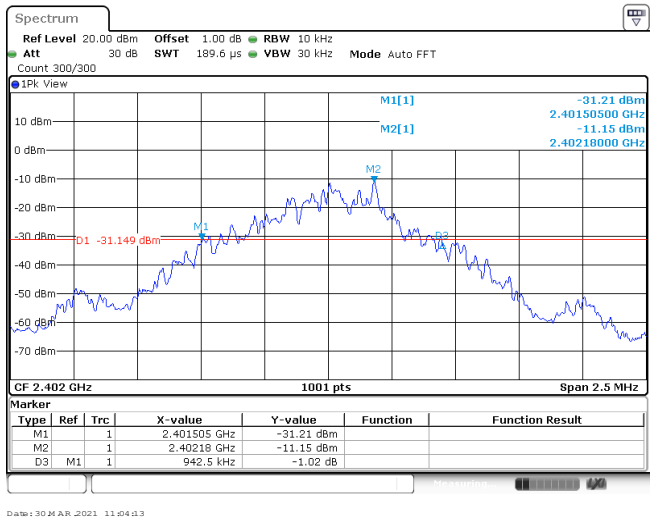


Appendix B : 20 dB Bandwidth

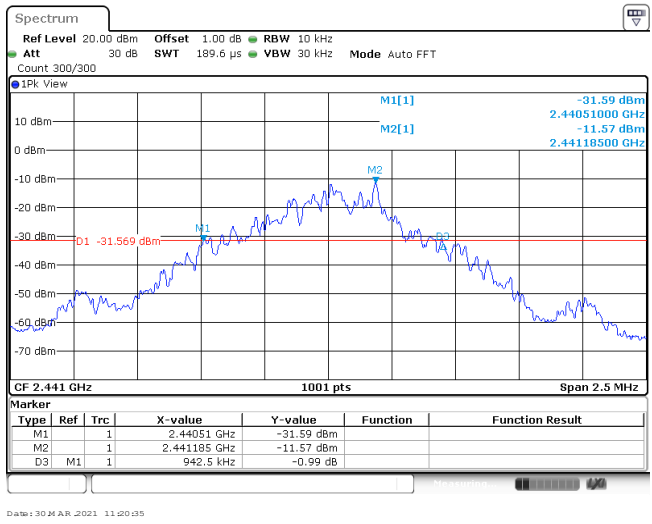
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	942.50	-	Pass
	39	942.50		
	78	942.50		
$\pi/4$ DQPSK	00	1330.00	-	Pass
	39	1330.00		
	78	1335.00		
8DPSK	00	1217.50	-	Pass
	39	1220.00		
	78	1215.00		

Modulation Type: GFSK

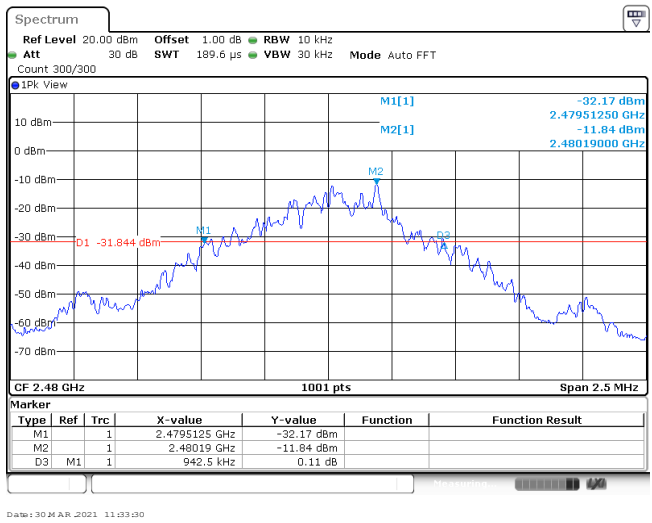
CH00



CH39

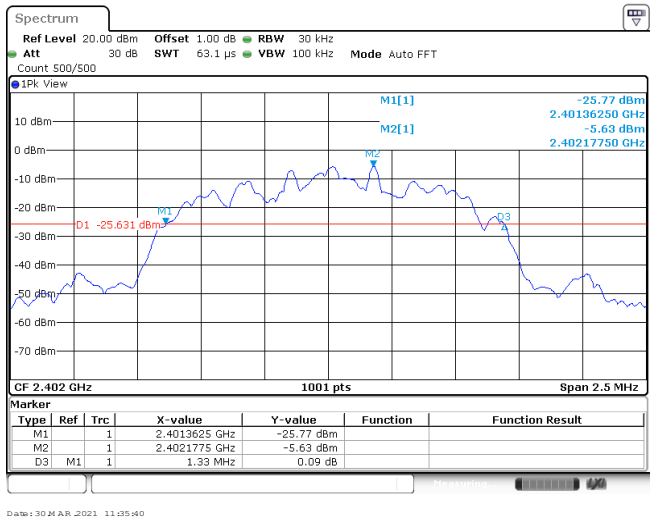


CH78

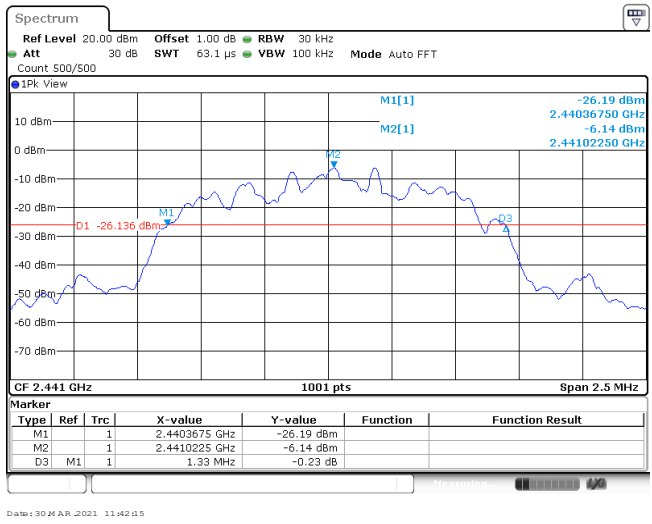


Modulation Type: $\pi/4$ DQPSK

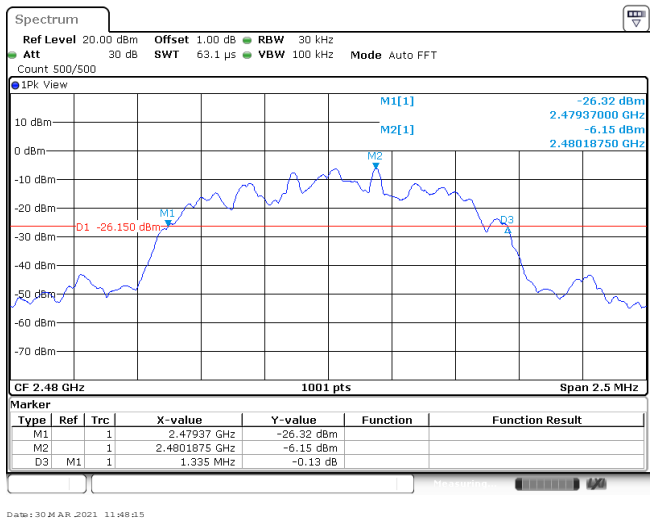
CH00



CH39

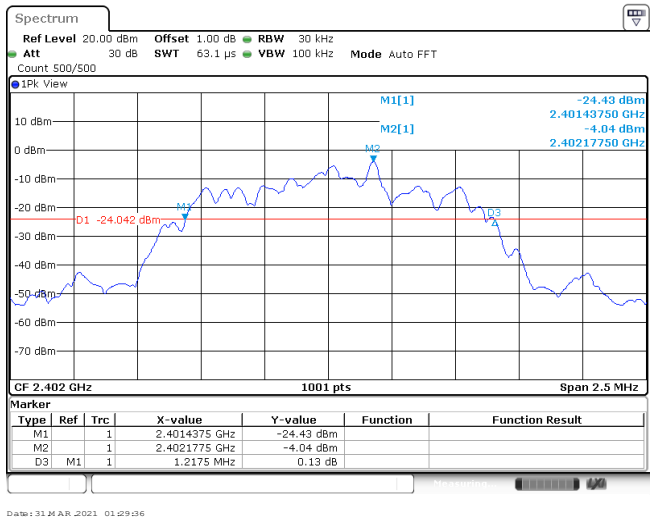


CH78

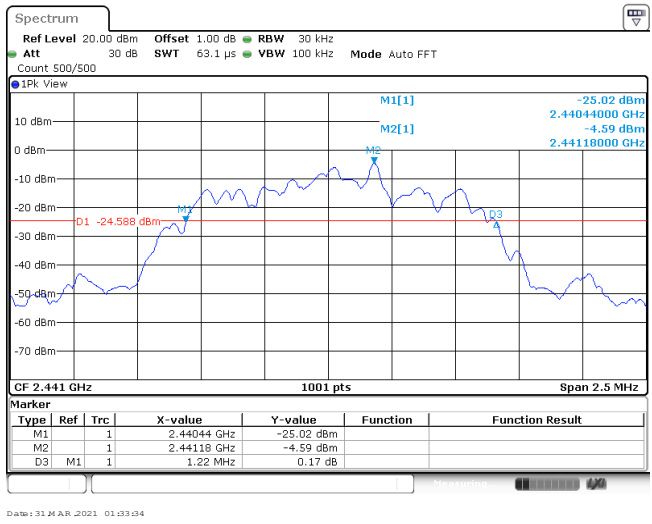


Modulation Type: 8DPSK

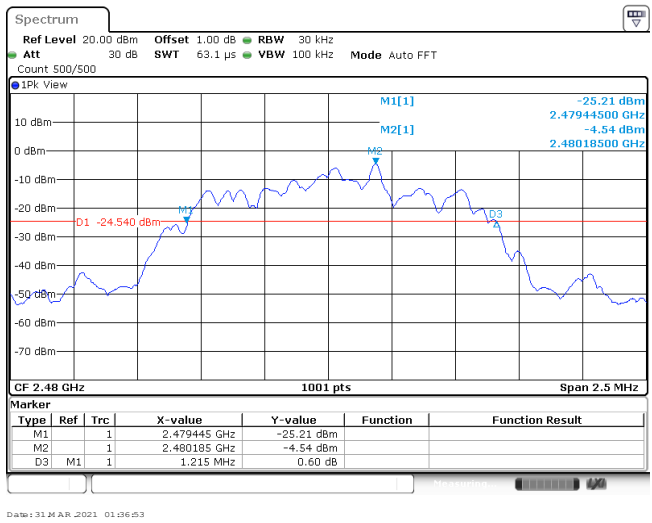
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.96	-	Pass
	39	0.96		
	78	0.96		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.17		
8DPSK	00	1.14	-	Pass
	39	1.14		
	78	1.14		

Modulation Type: GFSK	
CH00	<p>Spectrum 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 300/300 1Pk View M1[1] -2.75 dBm 2.40217480 GHz Occ Bw 959.040959041 kHz CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 30 MAR 2021 11:04:20</p>
CH39	<p>Spectrum 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 300/300 1Pk View M1[1] -9.16 dBm 2.44117980 GHz Occ Bw 959.040959041 kHz CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 30 MAR 2021 11:20:42</p>
CH78	<p>Spectrum 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 300/300 1Pk View M1[1] -9.45 dBm 2.48018480 GHz Occ Bw 959.040959041 kHz CF 2.48 GHz 1001 pts Span 2.5 MHz Date: 30 MAR 2021 11:33:37</p>

Modulation Type: $\pi/4$ DQPSK	
CH00	<p>Spectrum</p> <p>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</p> <p>1Pk View</p> <p>M1[1] -5.62 dBm 2.40201750 GHz 1.178821179 MHz</p> <p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 30 Mar 2021 11:35:48</p>
CH39	<p>Spectrum</p> <p>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</p> <p>1Pk View</p> <p>M1[1] -6.19 dBm 2.44102250 GHz 1.176323676 MHz</p> <p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 30 Mar 2021 11:42:22</p>
CH78	<p>Spectrum</p> <p>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</p> <p>1Pk View</p> <p>M1[1] -6.13 dBm 2.48018730 GHz 1.173826174 MHz</p> <p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 30 Mar 2021 11:48:22</p>

Modulation Type: 8DPSK	
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 31 Mar 2021 01:29:44</p>
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 31 Mar 2021 01:33:42</p>
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 31 Mar 2021 01:37:00</p>

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥942.50	Pass
$\pi/4$ DQPSK	39	1.00	≥890.00	Pass
8DPSK	39	1.00	≥813.33	Pass

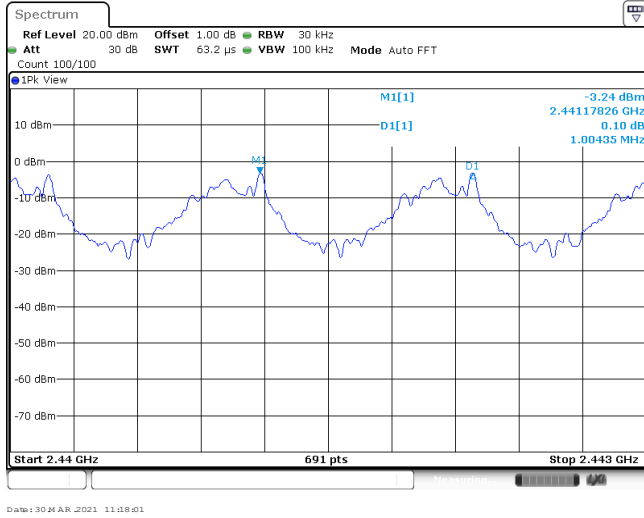
Note:

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

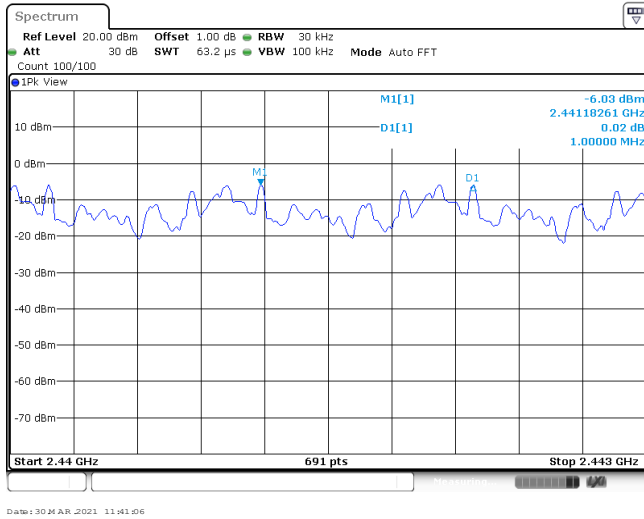
$\pi/4$ DQPSK limit = $2/3$ * The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the appendix B.

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

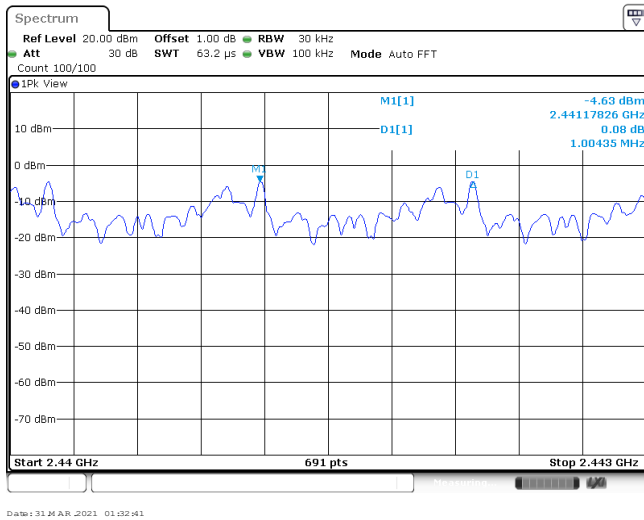
GFSK



$\pi/4$ DQPSK



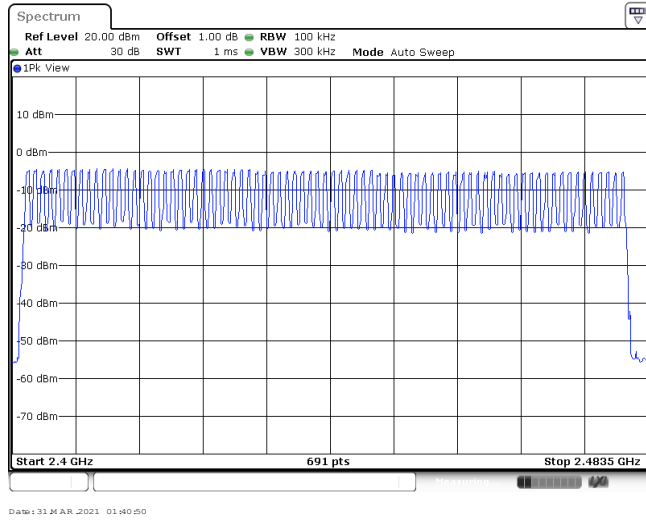
8DPSK



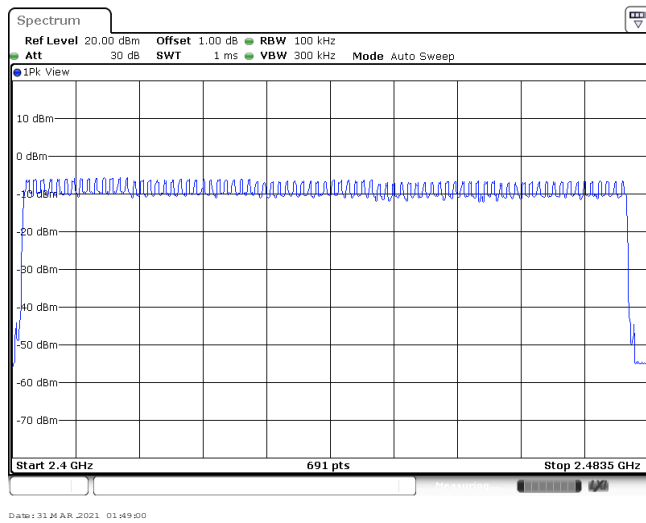
Appendix E: Hopping Channel Number

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

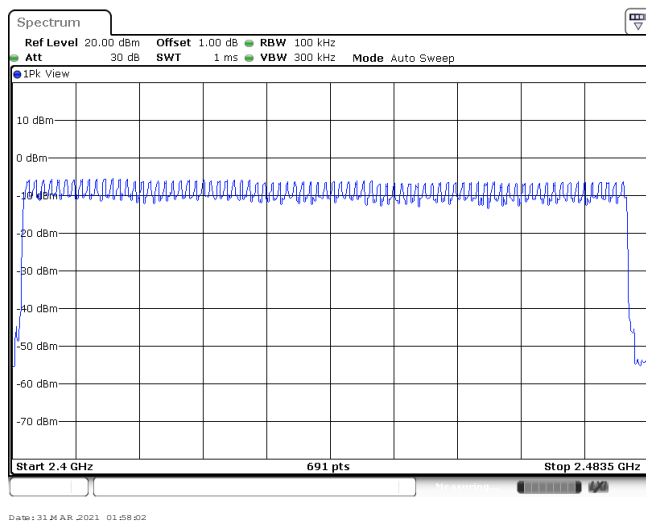
GFSK



$\pi/4$ DQPSK



8DPSK

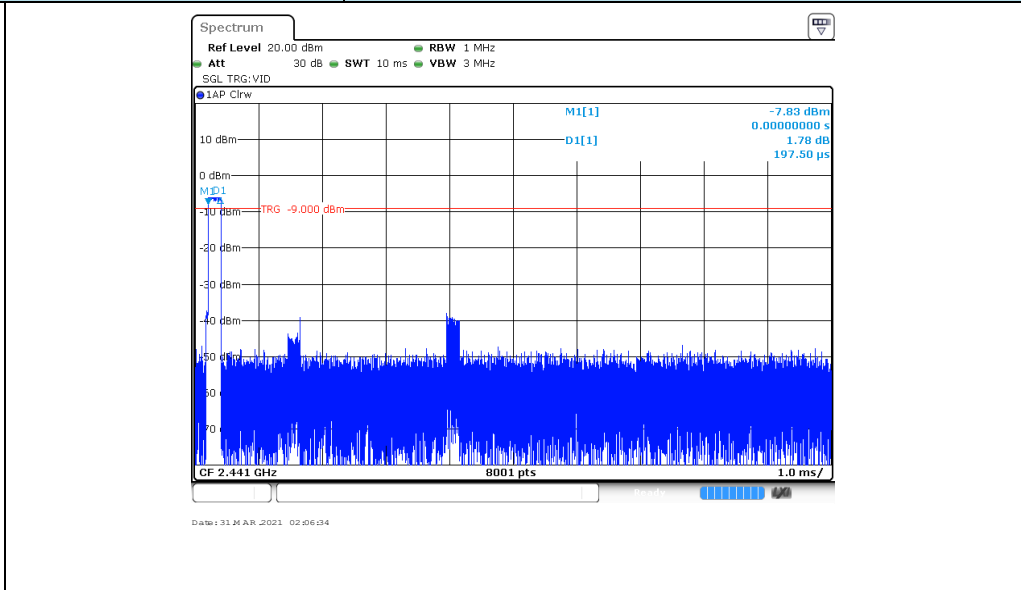


Appendix F: Dwell Time

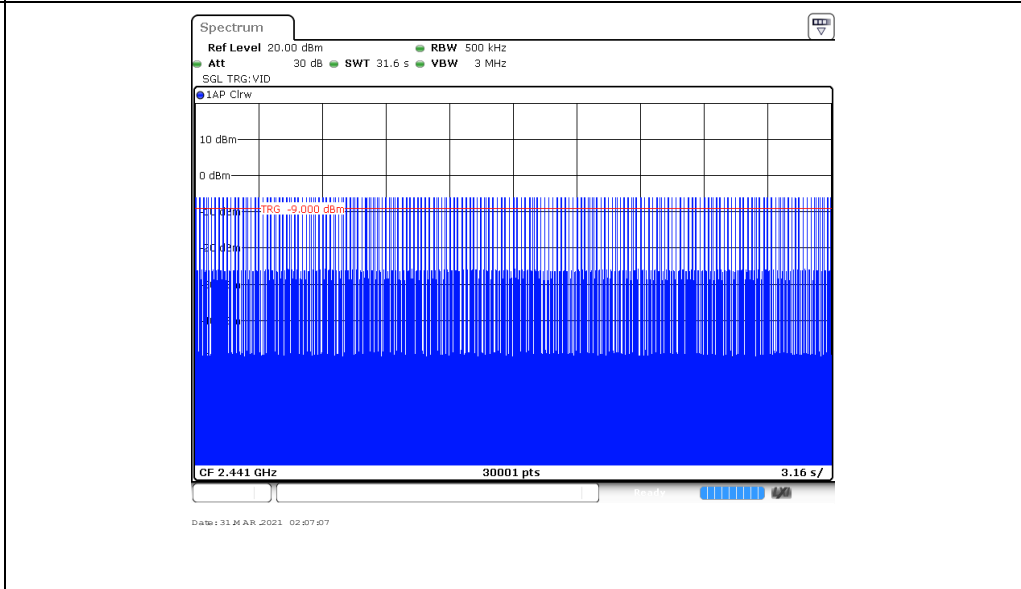
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.20	321	0.06	≤ 0.40	Pass
	DH3	0.26	151	0.04		
	DH5	0.29	118	0.03		
π/4DQPSK	2DH1	0.19	318	0.06	≤ 0.40	Pass
	2DH3	0.21	161	0.03		
	2DH5	0.23	99	0.02		
8DPSK	3DH1	0.19	321	0.06	≤ 0.40	Pass
	3DH3	0.20	155	0.03		
	3DH5	0.21	105	0.02		

Modulation Type: GFSK

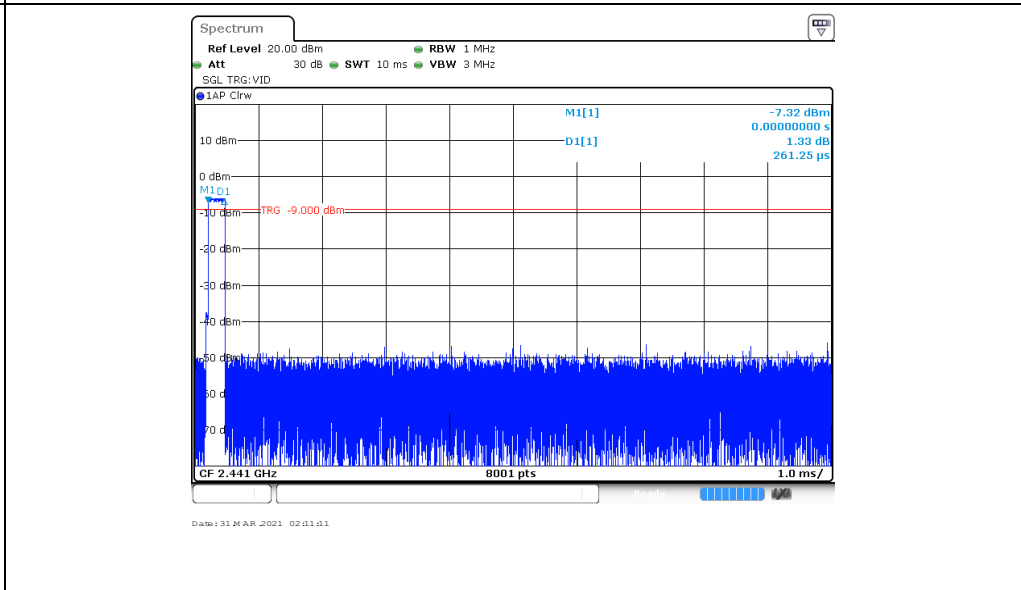
DH1
Burst width



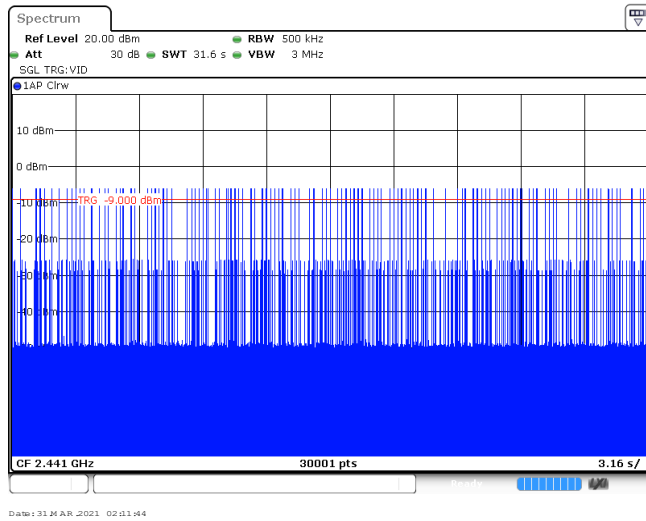
DH1
Burst number



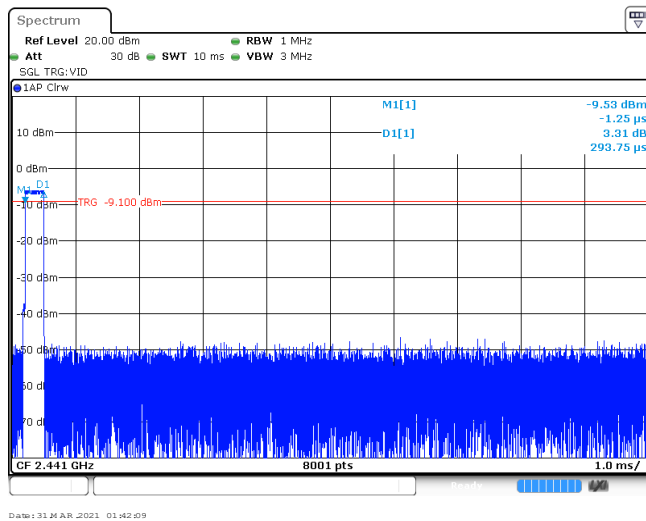
DH3
Burst width



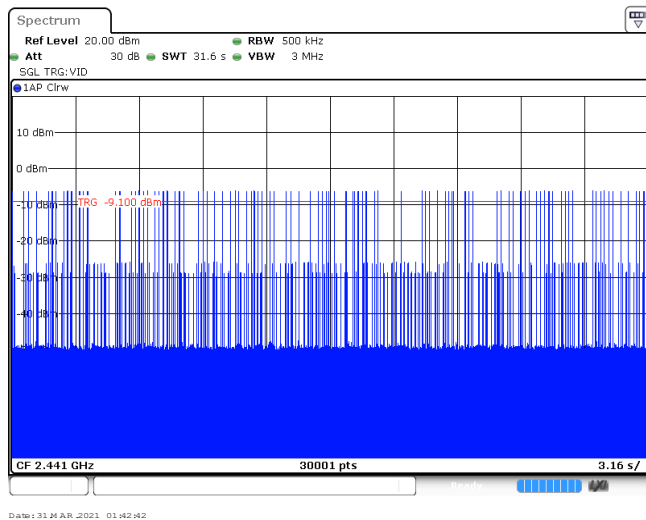
DH3
Burst number



DH5
Burst width

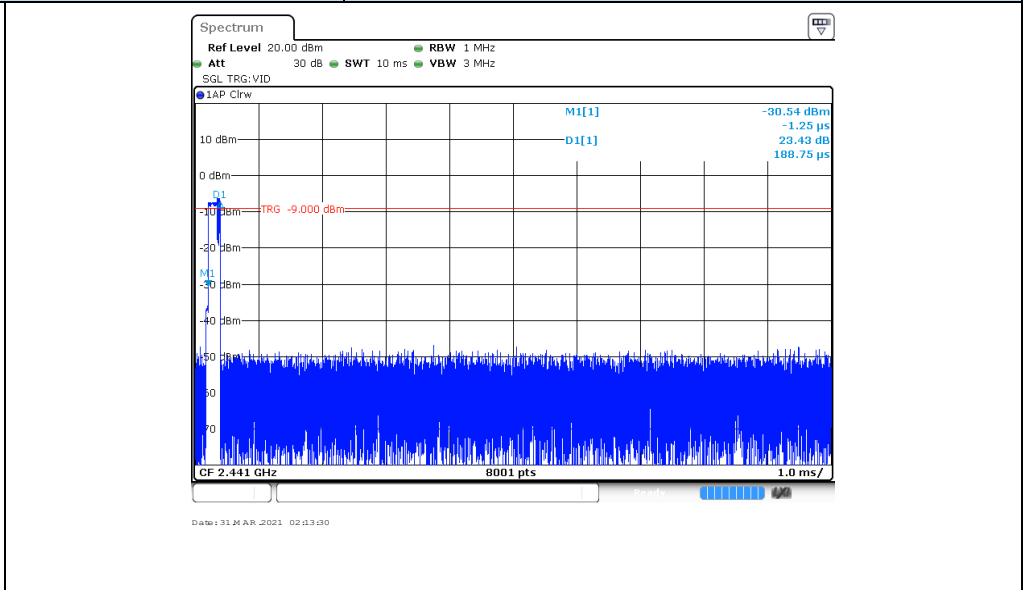


DH5
Burst number

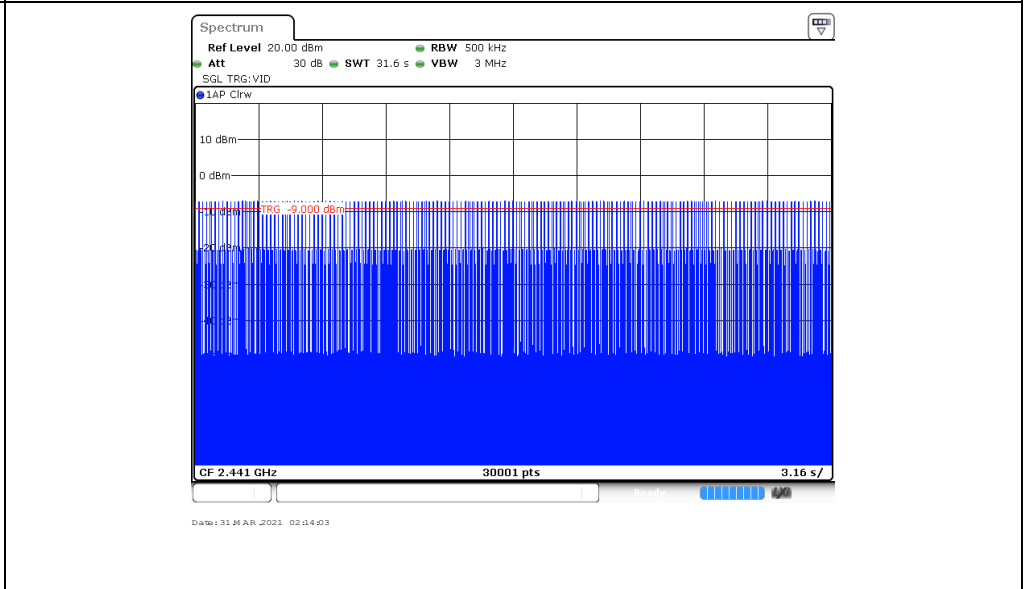


Modulation Type: $\pi/4$ DQPSK

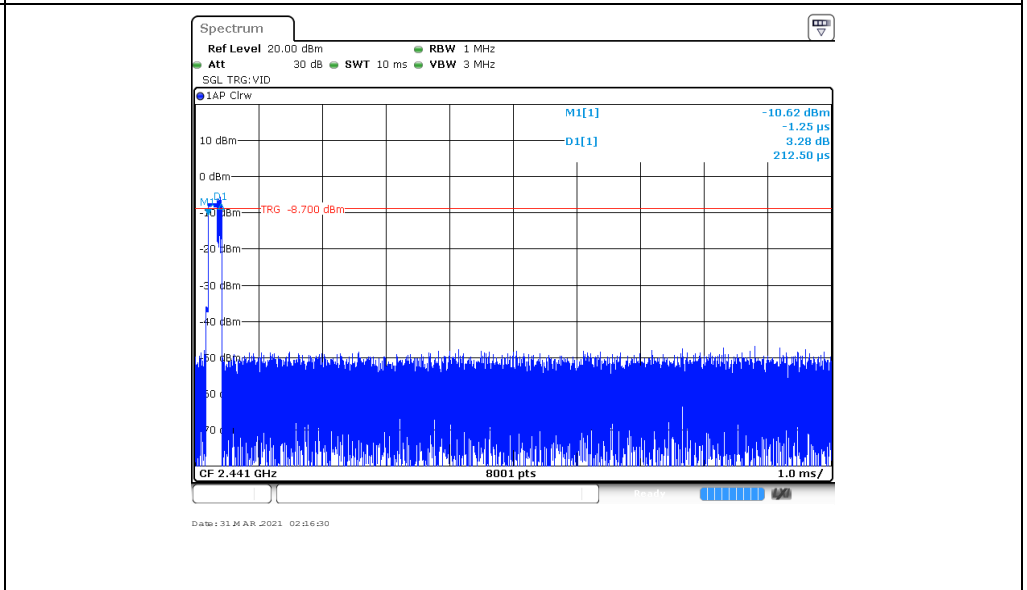
2DH1
Burst width



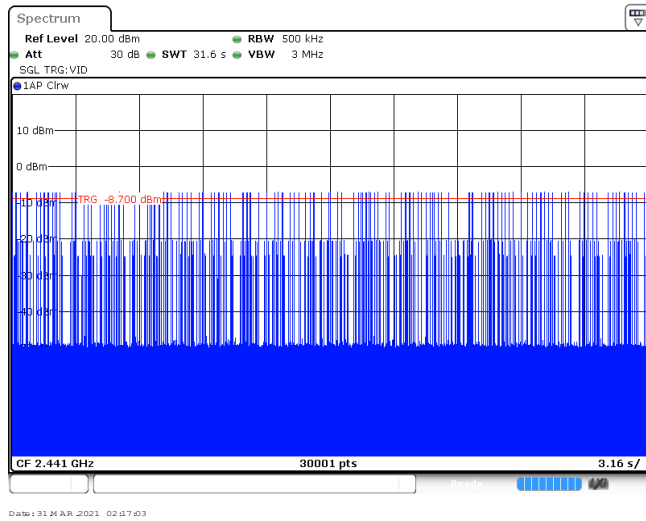
2DH1
Burst number



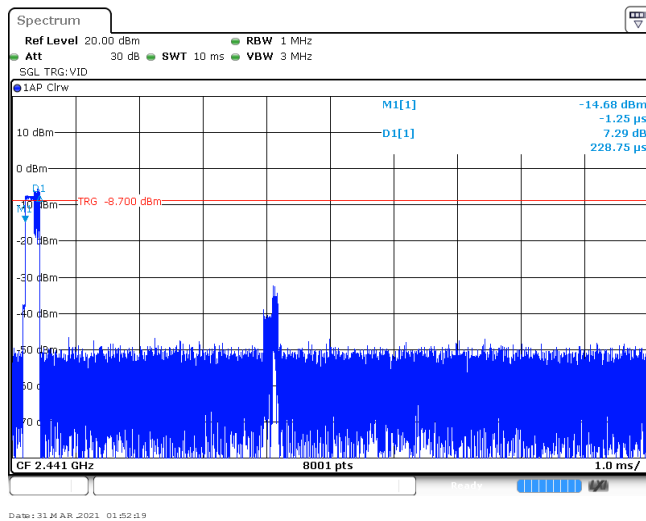
2DH3
Burst width



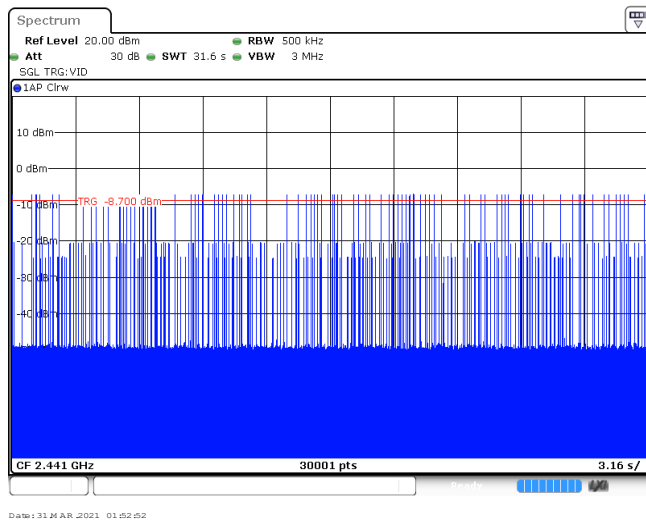
2DH3
Burst number



2DH5
Burst width

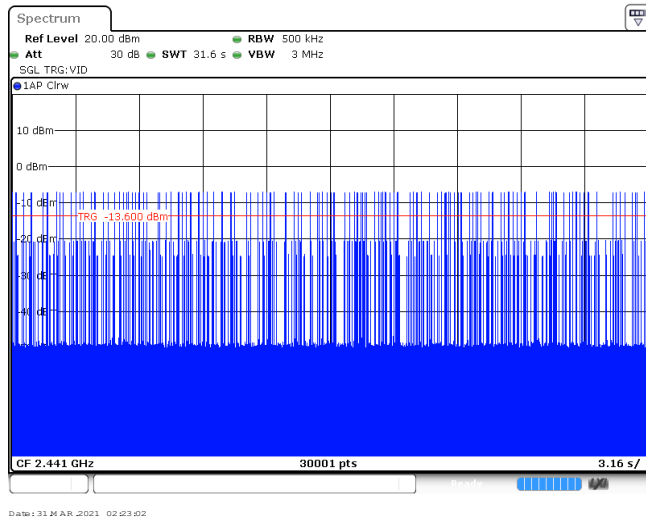


2DH5
Burst number

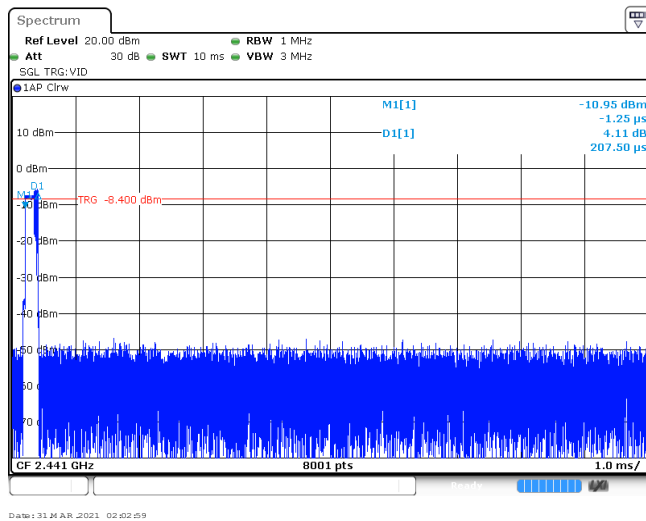


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz SGL TRG:VID M1[1] -20.30 dBm -1.25 μs 13.65 dB 188.75 μs TRG -8.900 dBm CF 2.441 GHz 8001 pts 1.0 ms/</p>
3DH1 Burst number	<p>Ref Level 20.00 dBm RBW 500 kHz Att 30 dB SWT 31.6 s VBW 3 MHz SGL TRG:VID M1[1] -8.900 dBm 31.6 s 3 MHz TRG -8.900 dBm CF 2.441 GHz 30001 pts 3.16 s/</p>
3DH3 Burst width	<p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz SGL TRG:VID M1[1] -31.86 dBm -1.25 μs 25.01 dB 197.50 μs TRG -10.600 dBm CF 2.441 GHz 8001 pts 1.0 ms/</p>

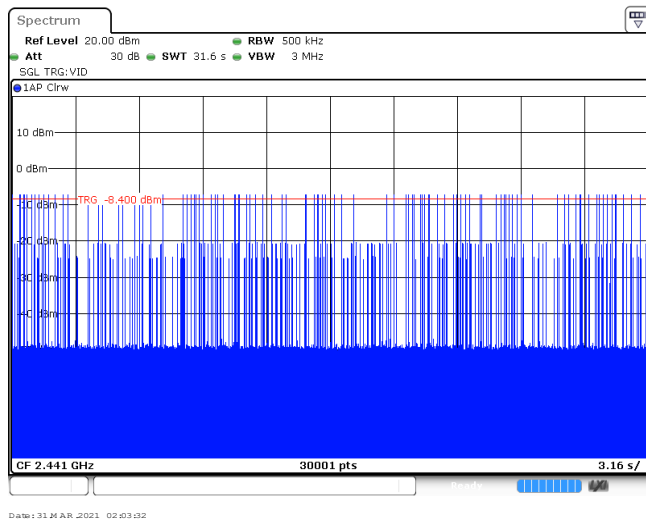
3DH3
Burst number



3DH5
Burst width



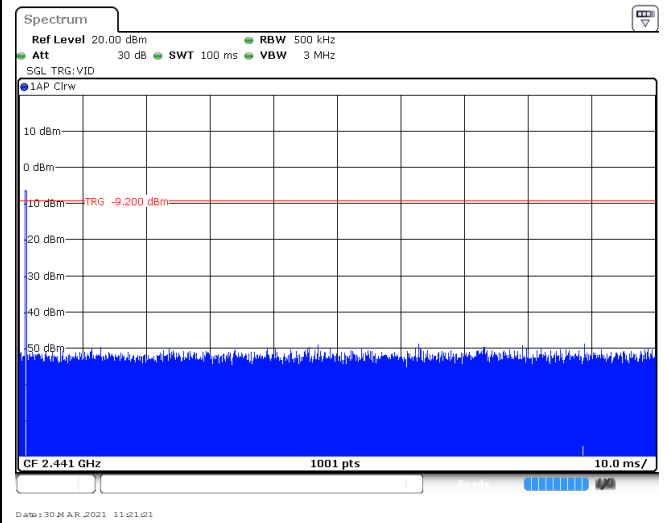
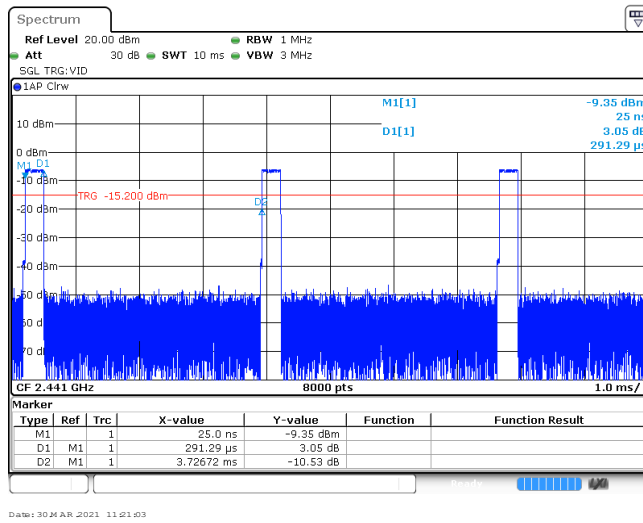
3DH5
Burst number



Appendix G: Duty Cycle Correction Factor (DCCF)

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log($T_{on\ time} / T_{period}$)					
Modulation type	Test Frequency (MHz)	$T_{on\ time}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	0.29	100	1	-50.75
$\pi/4$ DQPSK	2441	0.23	100	2	-46.74
8DPSK	2441	0.21	100	3	-44.01

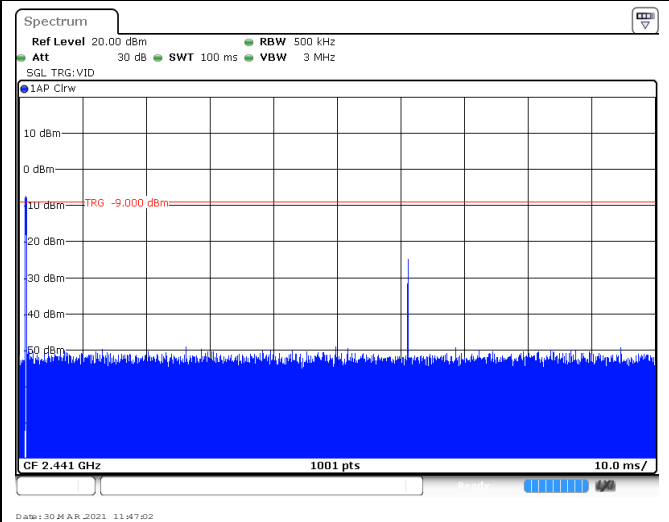
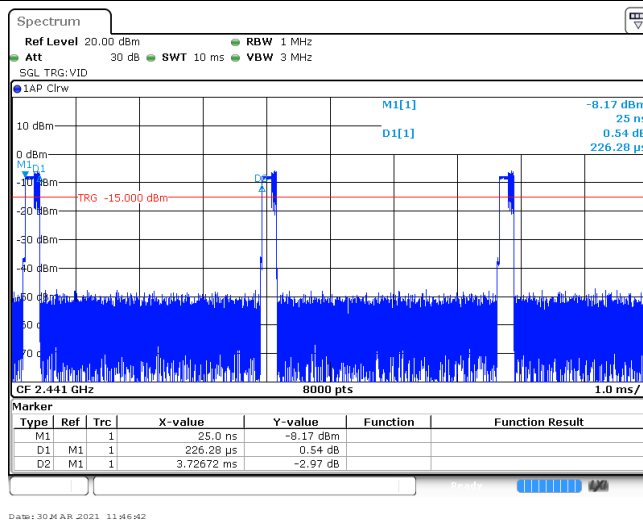
GFSK



T_{on} time for single burst

Burst Quantity

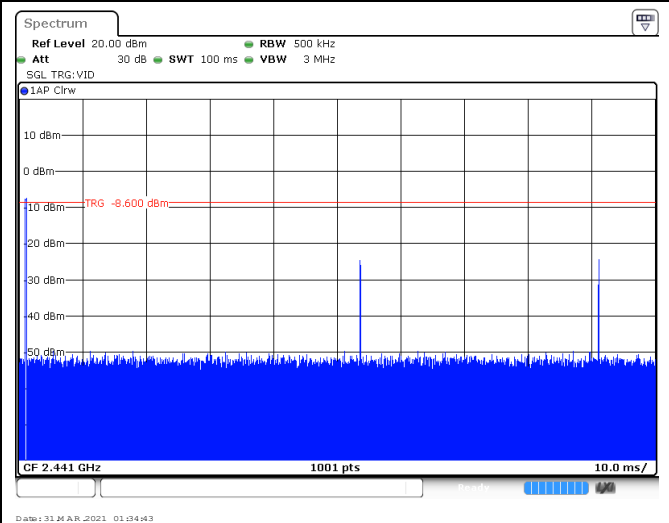
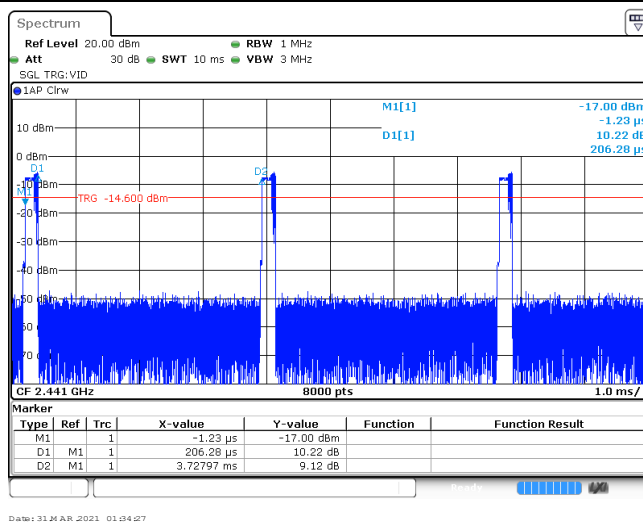
$\pi/4$ DQPSK



T_{on} time for single burst

Burst Quantity

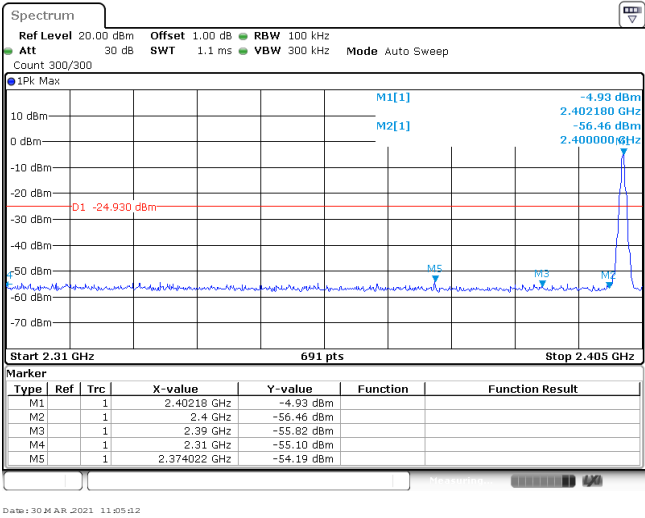
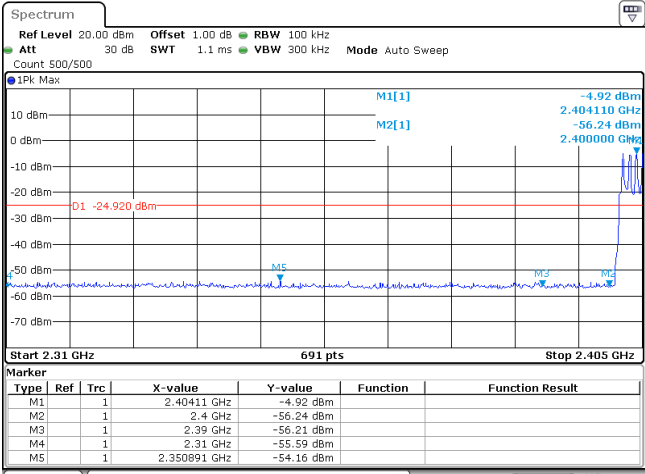
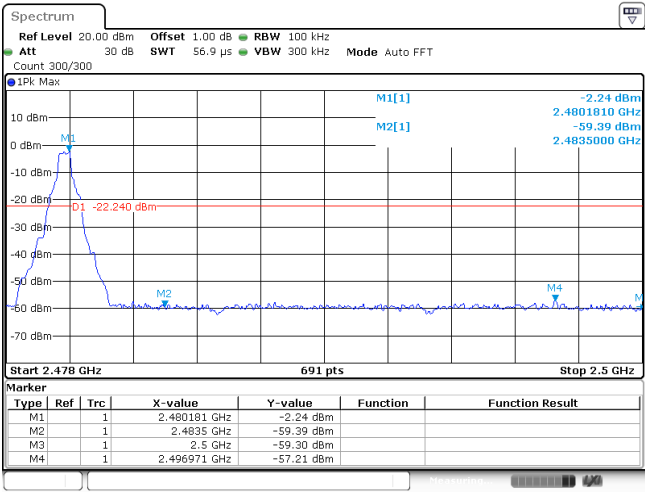
8DPSK



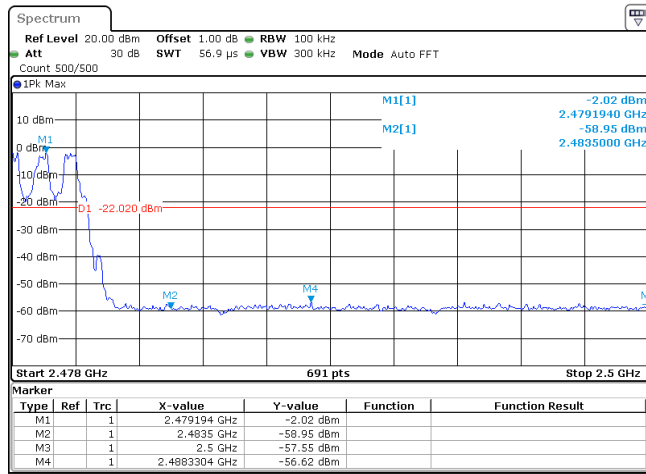
T_{on} time for single burst

Burst Quantity

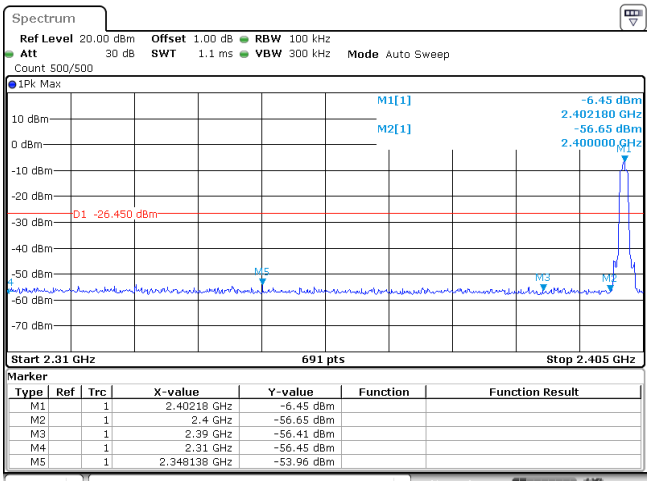
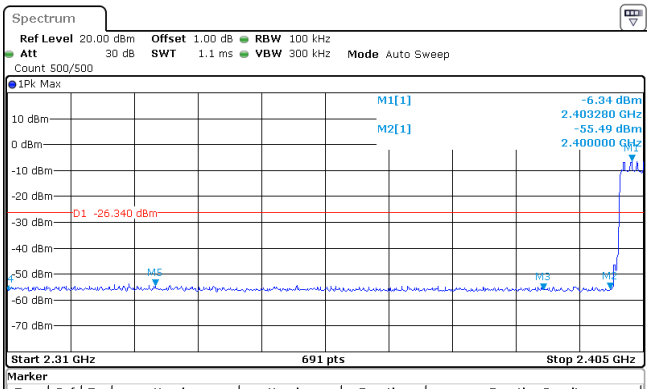
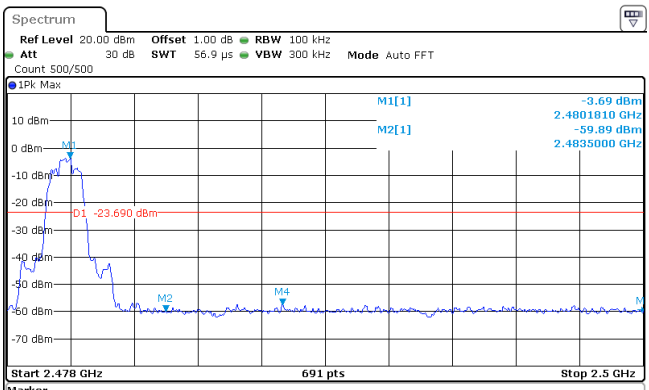
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <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>-4.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-55.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.374022 GHz</td> <td>-54.19 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 MAR 2021 11:05:12</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	-4.93 dBm			M2	1		2.4 GHz	-56.46 dBm			M3	1		2.39 GHz	-55.62 dBm			M4	1		2.31 GHz	-55.10 dBm			M5	1		2.374022 GHz	-54.19 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40218 GHz	-4.93 dBm																																									
M2	1		2.4 GHz	-56.46 dBm																																									
M3	1		2.39 GHz	-55.62 dBm																																									
M4	1		2.31 GHz	-55.10 dBm																																									
M5	1		2.374022 GHz	-54.19 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>2.40411 GHz</td> <td>-4.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-56.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.350891 GHz</td> <td>-54.16 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 31 MAR 2021 01:44:07</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40411 GHz	-4.92 dBm			M2	1		2.4 GHz	-56.24 dBm			M3	1		2.39 GHz	-56.21 dBm			M4	1		2.31 GHz	-55.59 dBm			M5	1		2.350891 GHz	-54.16 dBm		
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<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="687 1818 1334 1917"> <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>2.480181 GHz</td> <td>-2.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-59.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.496971 GHz</td> <td>-57.21 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 MAR 2021 11:34:17</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480181 GHz	-2.24 dBm			M2	1		2.4835 GHz	-59.39 dBm			M3	1		2.5 GHz	-59.30 dBm			M4	1		2.496971 GHz	-57.21 dBm									
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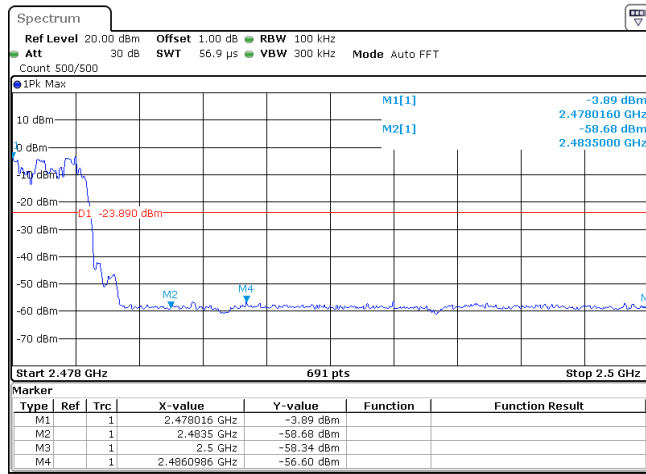
CH78
Hopping mode



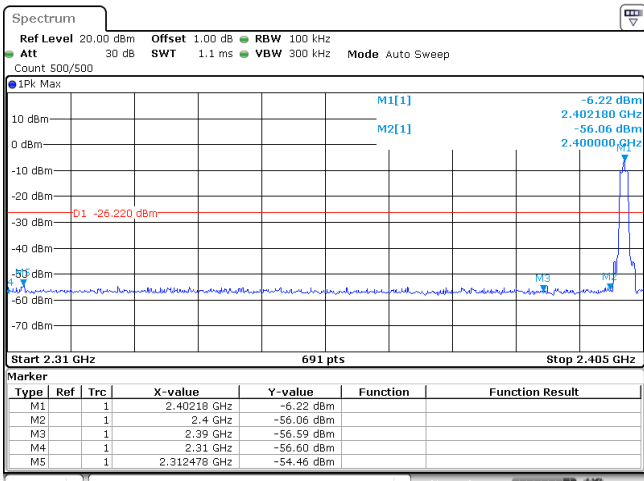
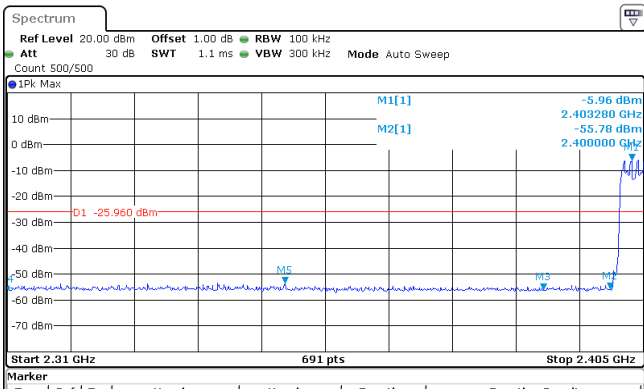
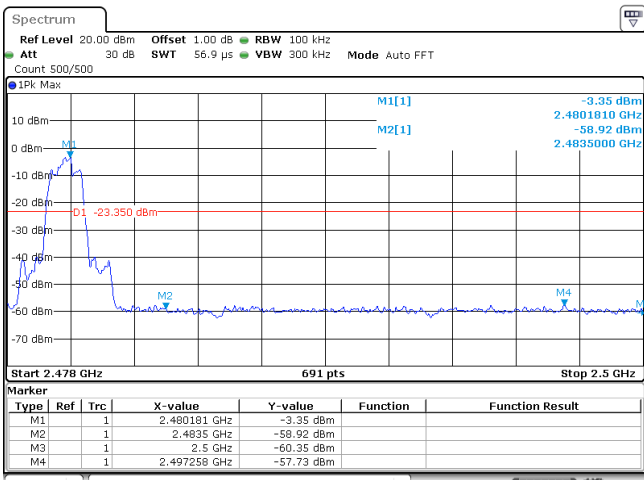
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Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
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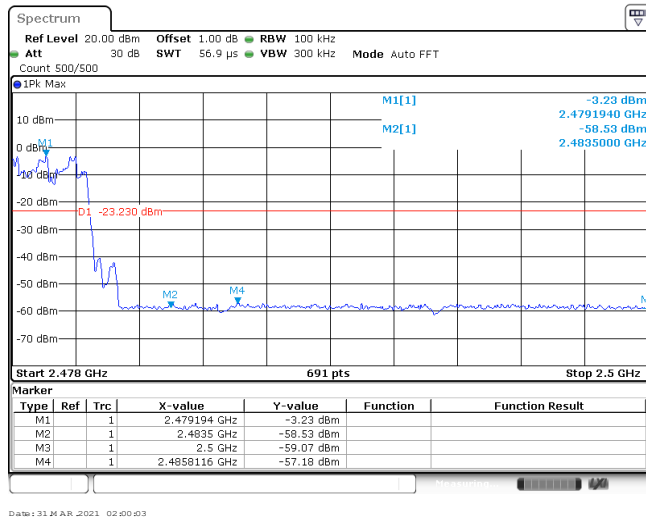
CH78
Hopping mode

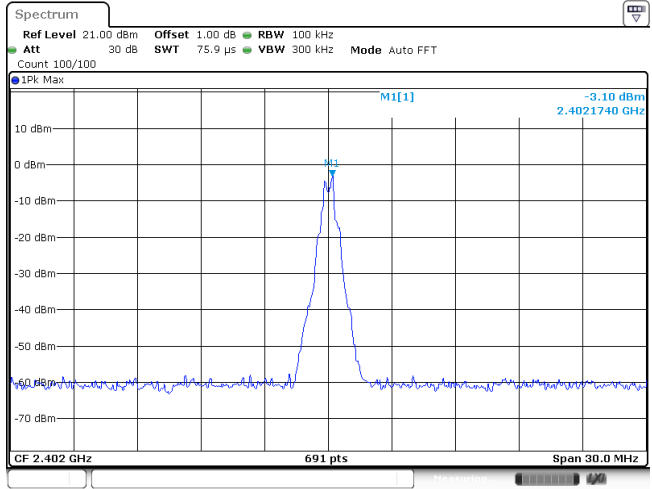
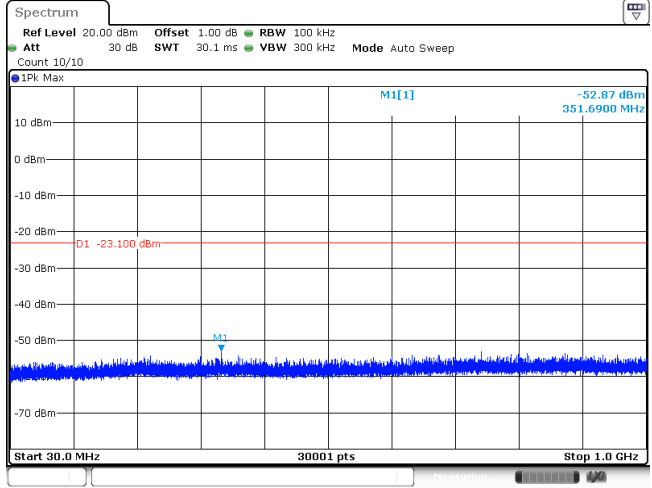
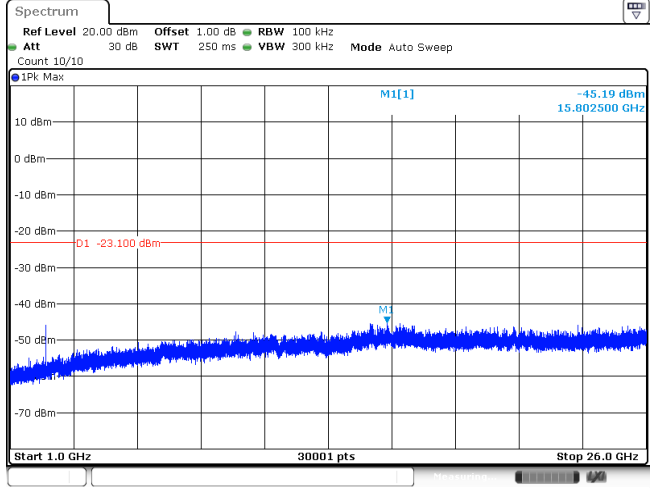


Date: 31 MAR 2021 01:52:08

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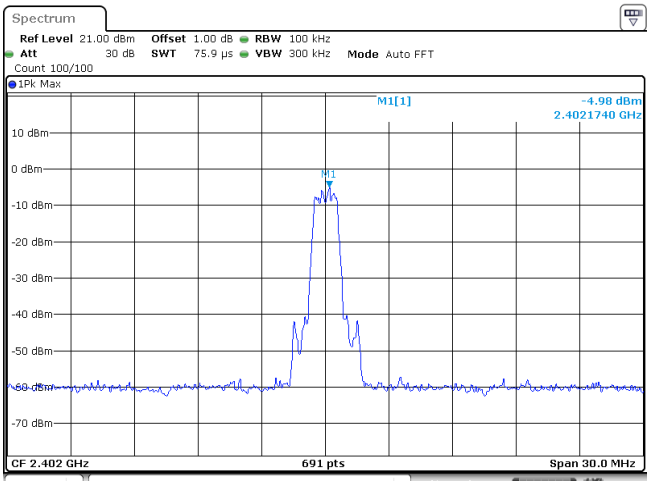
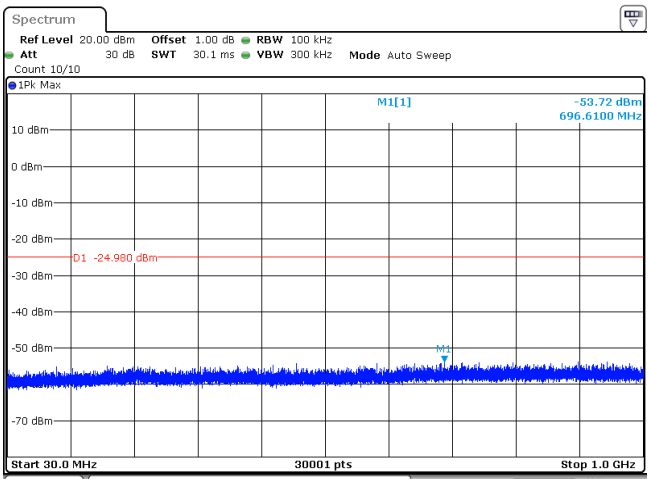
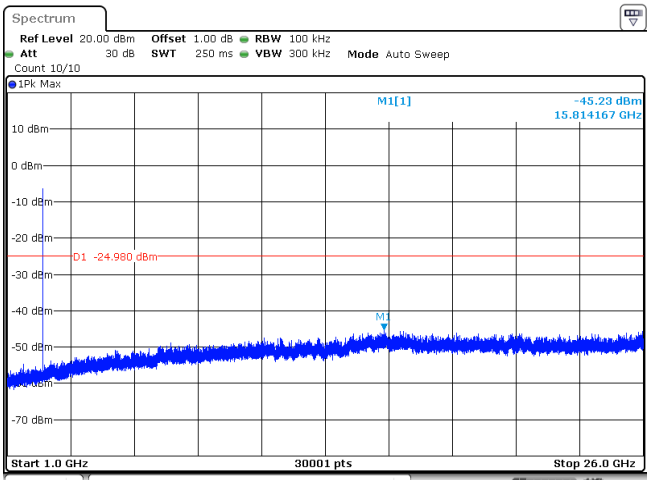
CH78
Hopping mode



Test Item:	Spurious Emission	Modulation type:	GFSK
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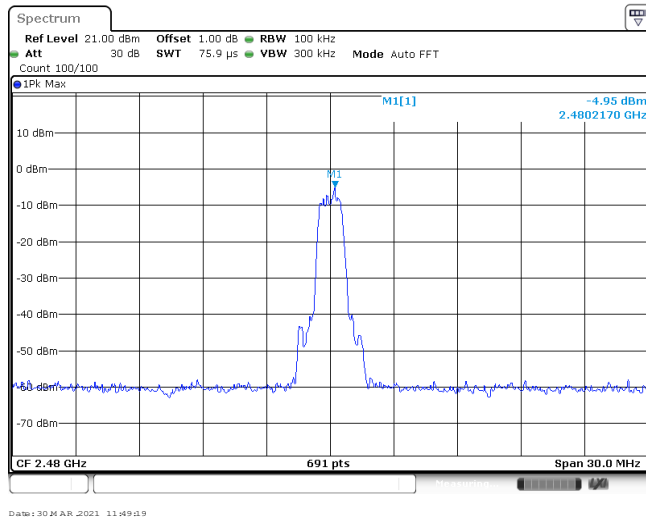
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<p>CH78 Reference level</p>	
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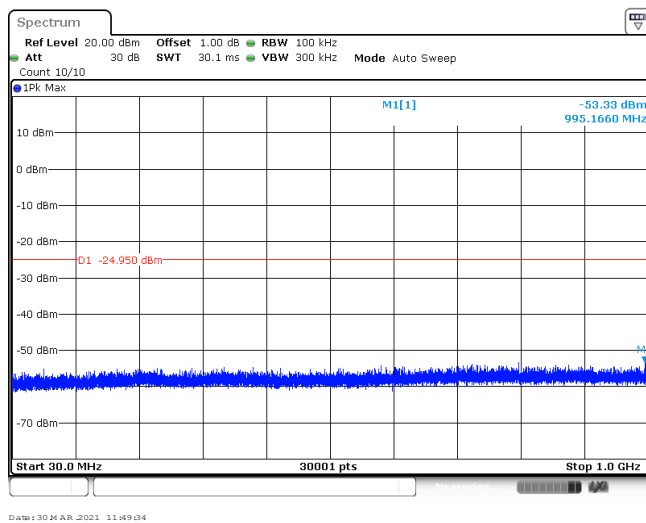
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<p>CH00 1GHz~26GHz</p>			

<p>CH39 Reference level</p>	
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<p>CH39 1GHz~26GHz</p>	

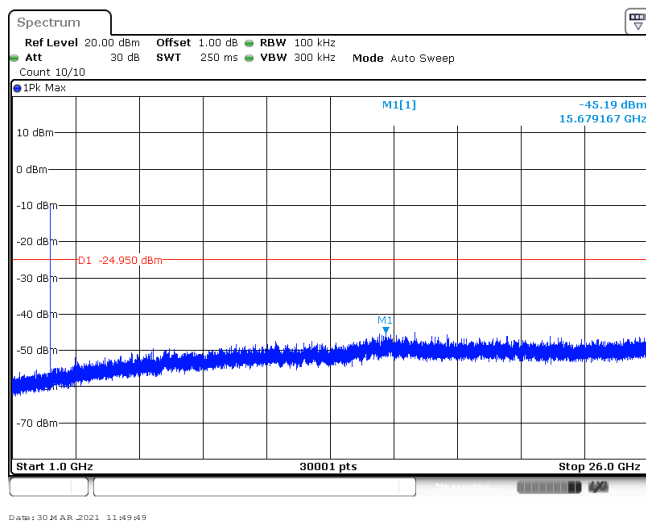
CH78
Reference level

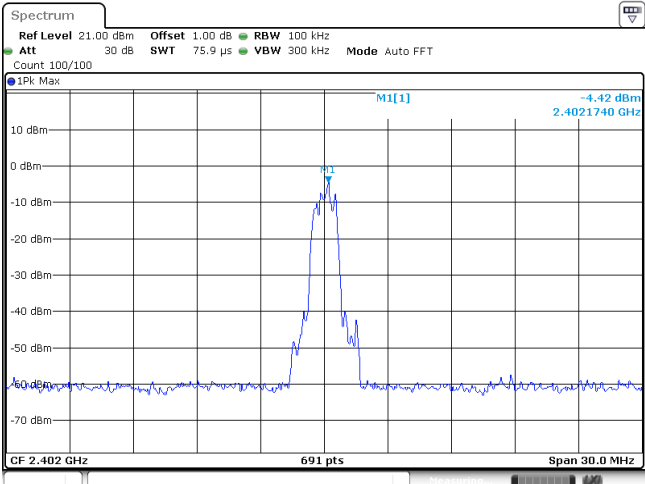
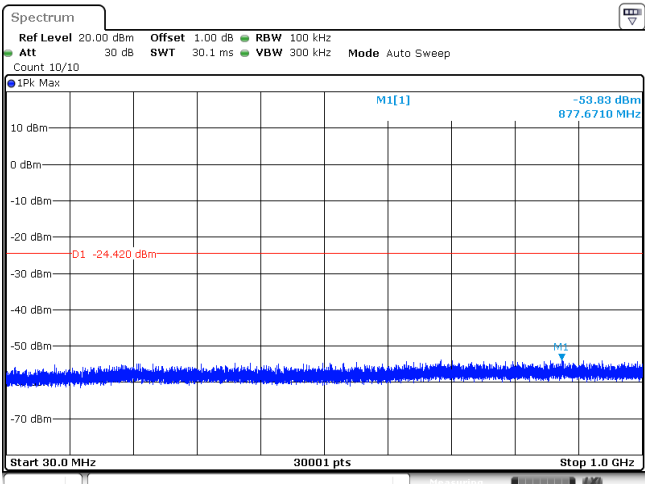
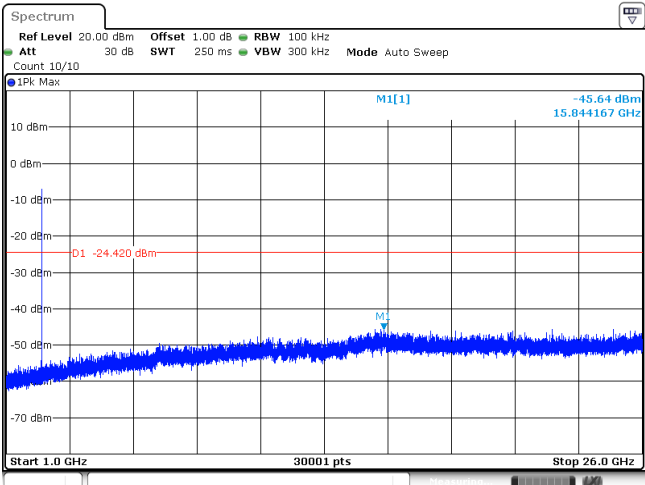


CH78
30MHz~1000MHz



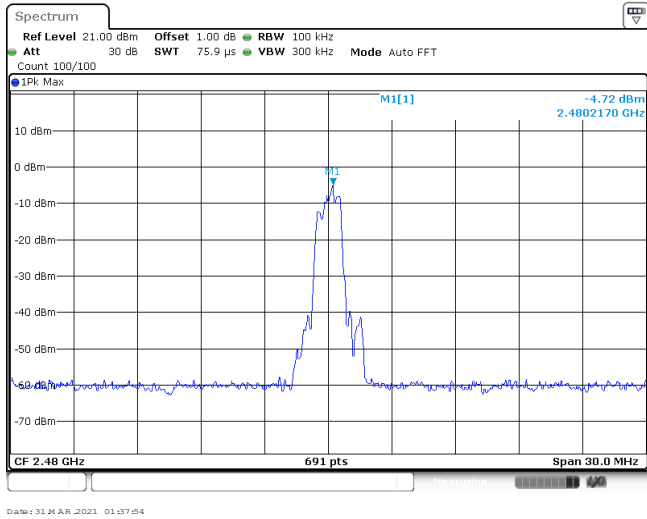
CH78
1GHz~26GHz



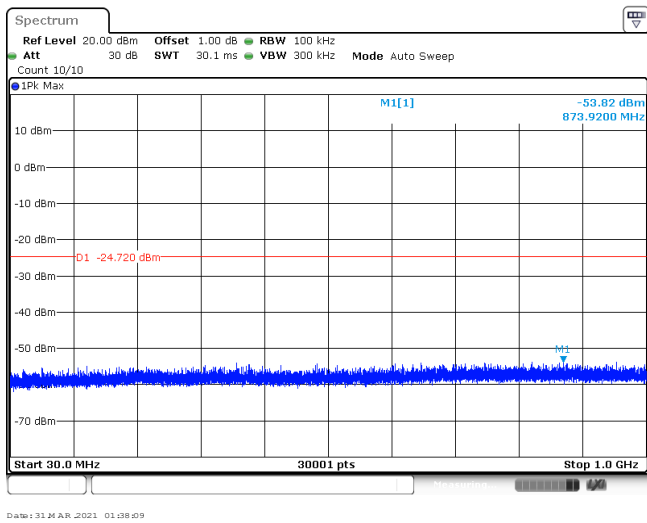
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<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 31 MAR 2021 01:30:52</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 31 MAR 2021 01:31:08</p>		

<p>CH39 Reference level</p>	
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<p>CH39 1GHz~26GHz</p>	

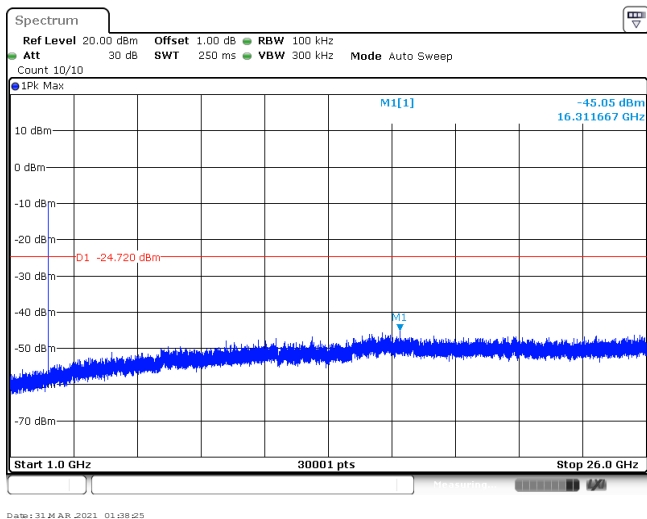
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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