

APPENDIX REPORT

Project No.	SHT2004144301EW	Radio Specification	Bluetooth EDR
Test sample No.	YPH20041443006	Model No.	KLR19113
Start test date	2020/5/11	Finish date	2020/5/14
Temperature	25°C	Humidity	50%
Test Engineer	Jinyue.Yan	Auditor	<i>William.wang</i>

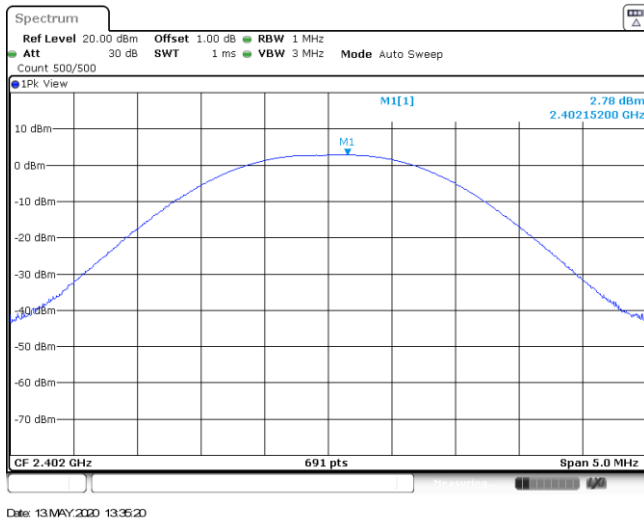
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

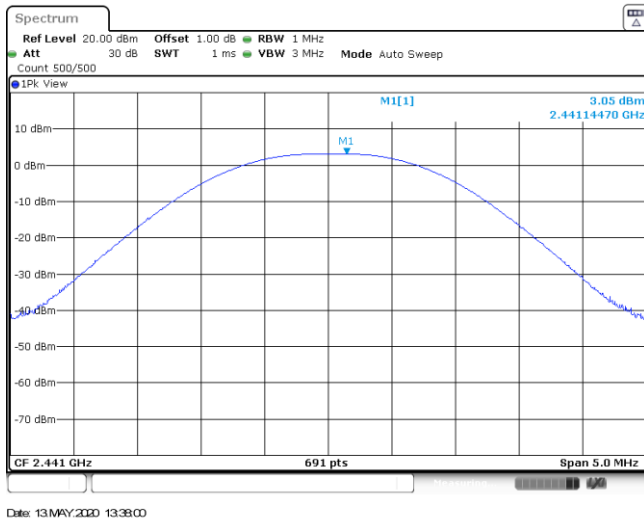
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.78	2.65	≤ 30.00	Pass
	39	3.05	2.95		
	78	2.56	2.43		
π/4DQPSK	00	2.14	1.43	≤ 21.00	Pass
	39	2.45	1.79		
	78	1.90	1.26		
8DPSK	00	2.27	1.46	≤ 21.00	Pass
	39	2.61	1.88		
	78	2.07	1.28		

Modulation Type: **GFSK**

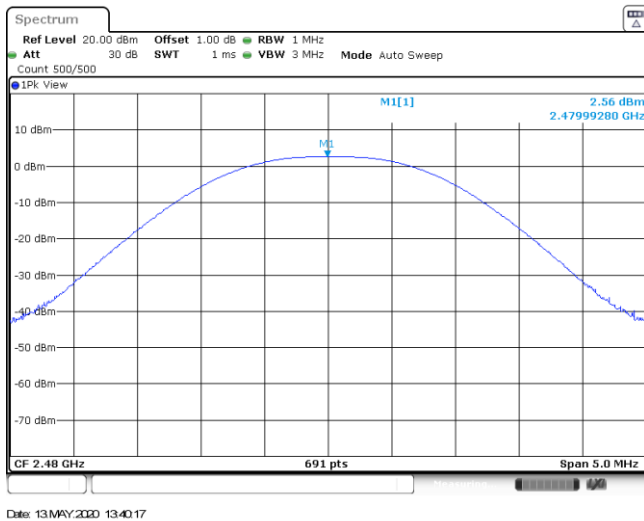
CH00



CH39



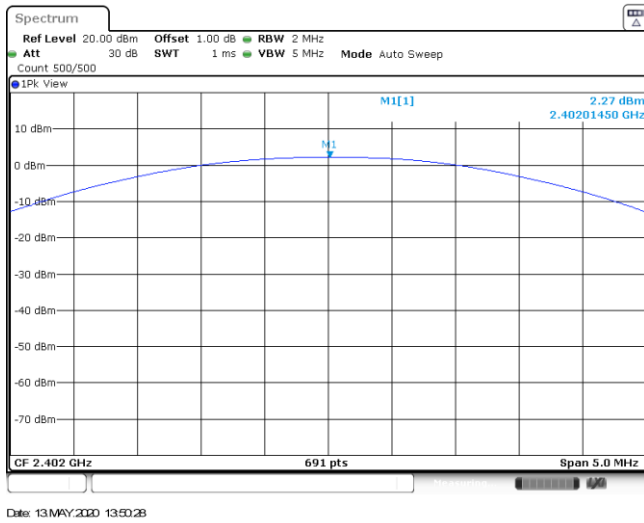
CH78



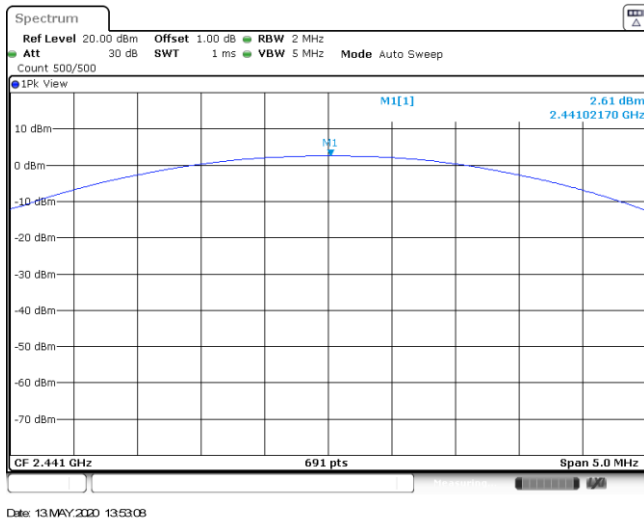
Modulation Type: $\pi/4$ DQPSK	
CH00	<p>Spectrum plot for CH00. The plot shows a signal peak at 2.40213750 GHz with a power of 2.14 dBm. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from 2.400 to 2.404. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 2 MHz, Count 500/500, Mode Auto Sweep, Span 5.0 MHz, and Date 13 MAY 2020 13:42:34.</p>
CH39	<p>Spectrum plot for CH39. The plot shows a signal peak at 2.44108680 GHz with a power of 2.45 dBm. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from 2.439 to 2.443. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 2 MHz, Count 500/500, Mode Auto Sweep, Span 5.0 MHz, and Date 13 MAY 2020 13:45:26.</p>
CH78	<p>Spectrum plot for CH78. The plot shows a signal peak at 2.48011580 GHz with a power of 1.90 dBm. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from 2.478 to 2.482. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 2 MHz, Count 500/500, Mode Auto Sweep, Span 5.0 MHz, and Date 13 MAY 2020 13:48:03.</p>

Modulation Type: 8DPSK

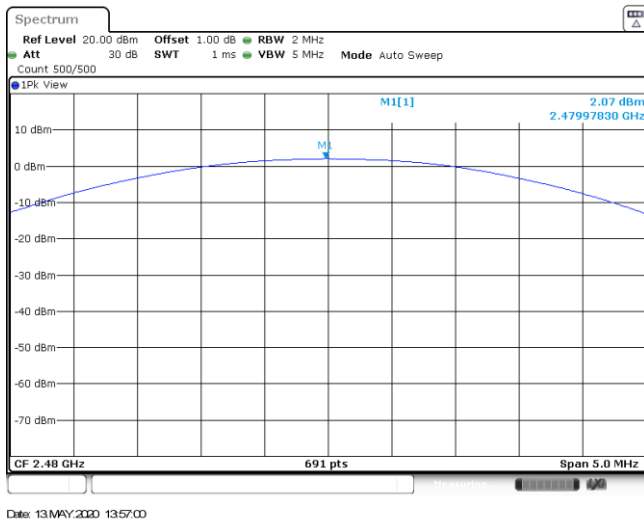
CH00



CH39



CH78

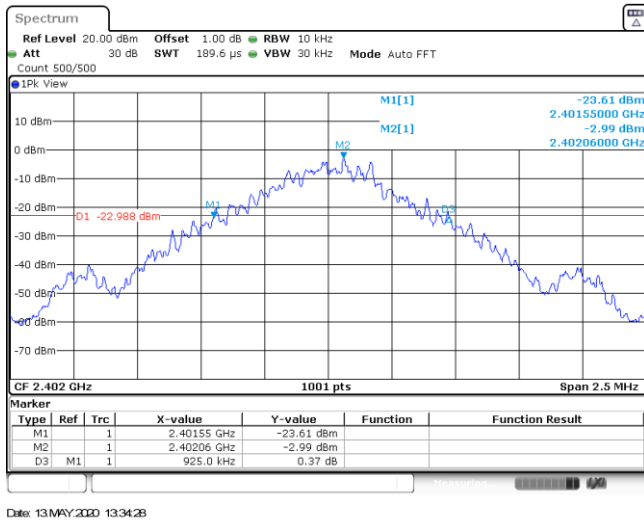


Appendix B : 20 dB Bandwidth

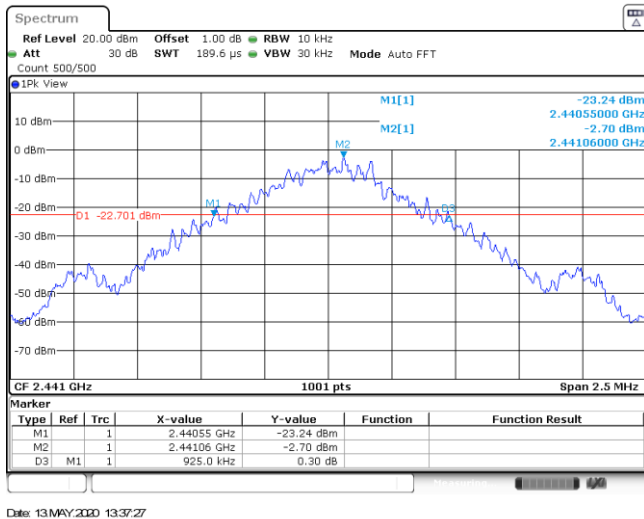
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1285.00	-	Pass
	39	1295.00		
	78	1297.50		
8DPSK	00	1287.50	-	Pass
	39	1292.50		
	78	1290.00		

Modulation Type: GFSK

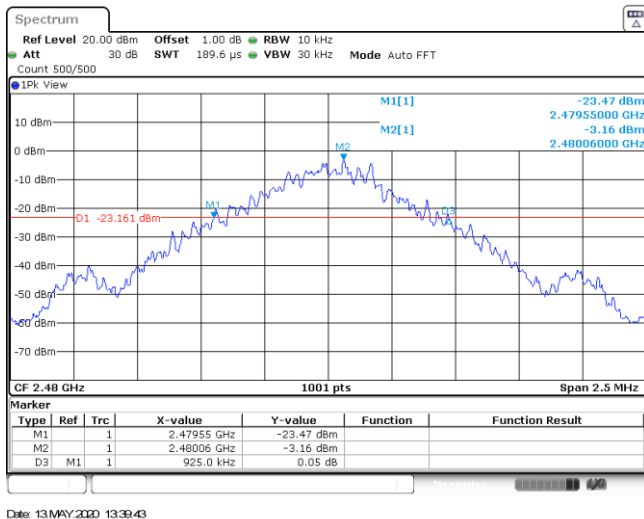
CH00



CH39

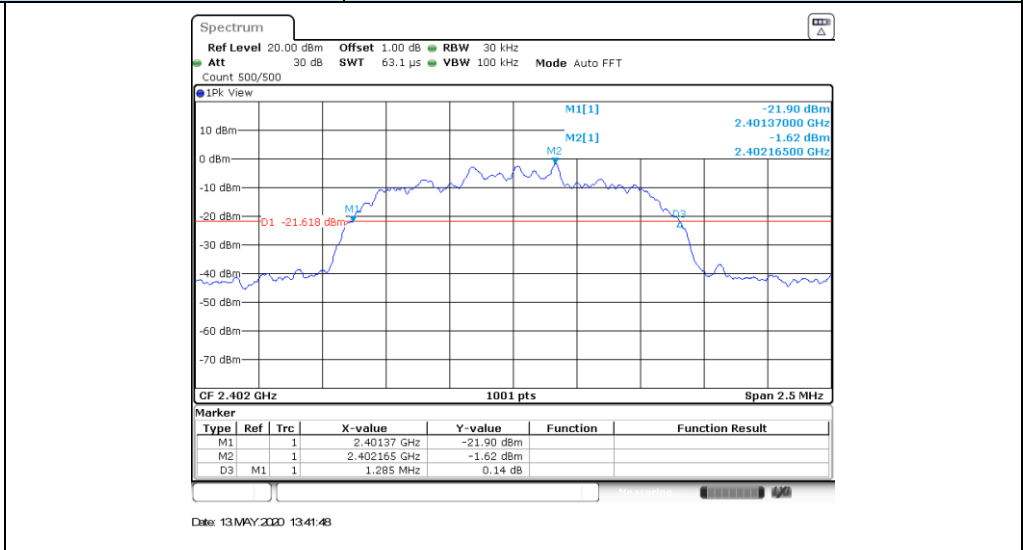


CH78

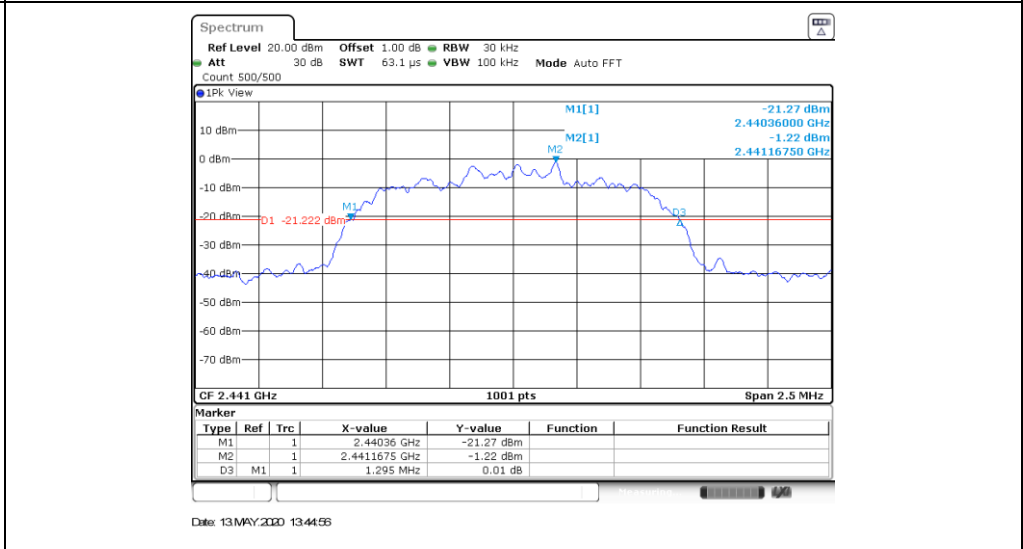


Modulation Type: **$\pi/4$ DQPSK**

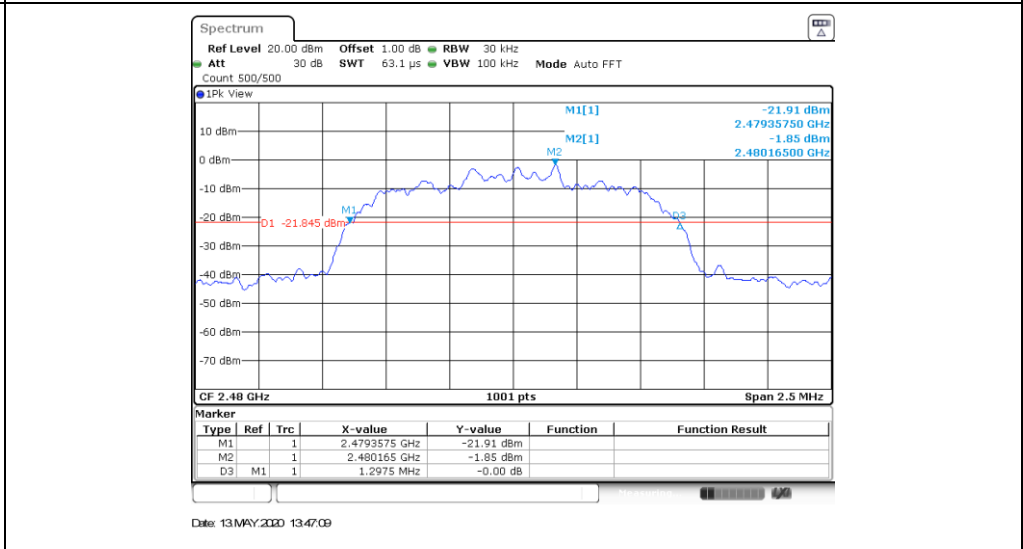
CH00



CH39

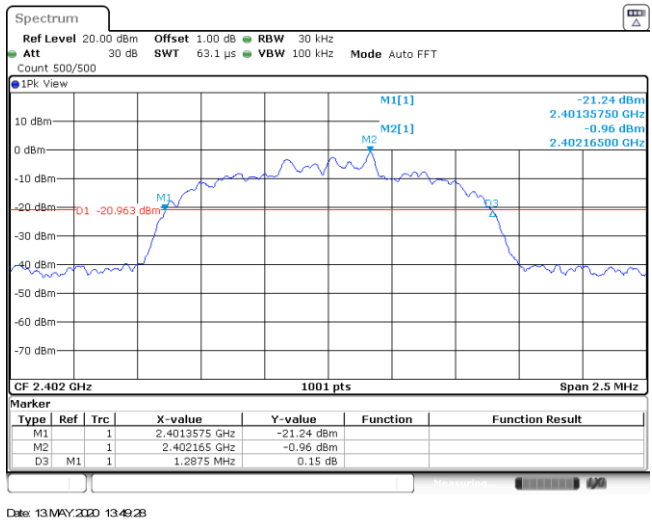


CH78

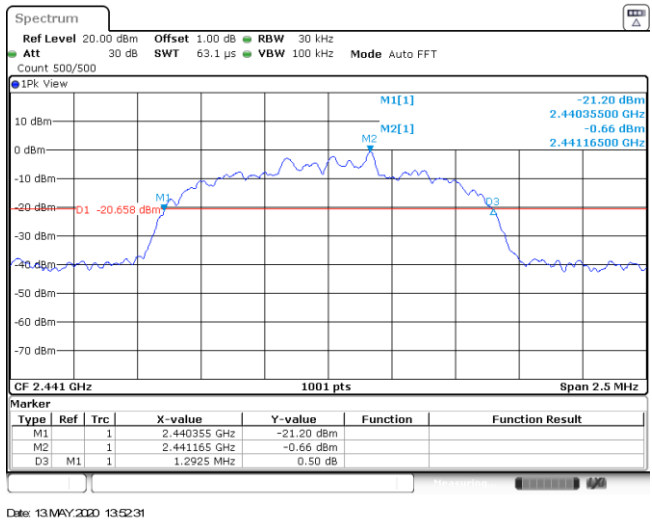


Modulation Type: 8DPSK

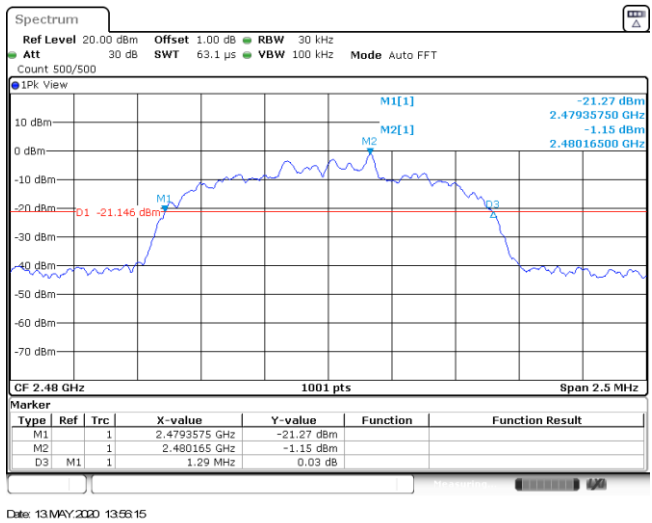
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.90	-	Pass
	39	0.90		
	78	0.91		
$\pi/4$ DQPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		

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 500/500 1Pk View M1[1] 0.33 dBm 2.40216480 GHz 904.095904096 kHz Occ Bw T1 T2 CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 13MAY.200 13:34:42</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 500/500 1Pk View M1[1] 0.62 dBm 2.44116480 GHz 904.095904096 kHz Occ Bw T1 T2 CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 13MAY.200 13:37:36</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 500/500 1Pk View M1[1] 0.08 dBm 2.48016480 GHz 906.593406593 kHz Occ Bw T1 T2 CF 2.48 GHz 1001 pts Span 2.5 MHz Date: 13MAY.200 13:39:52</p>

Modulation Type:		$\pi/4$ DQPSK
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:41:56</p>	
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:46:04</p>	
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:47:31</p>	

Modulation Type:		8DPSK
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:49:36</p>	
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:52:39</p>	
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 13MAY.200 13:58:24</p>	

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	≥864.80	Pass
8DPSK	39	1.00	≥861.67	Pass

Note:

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

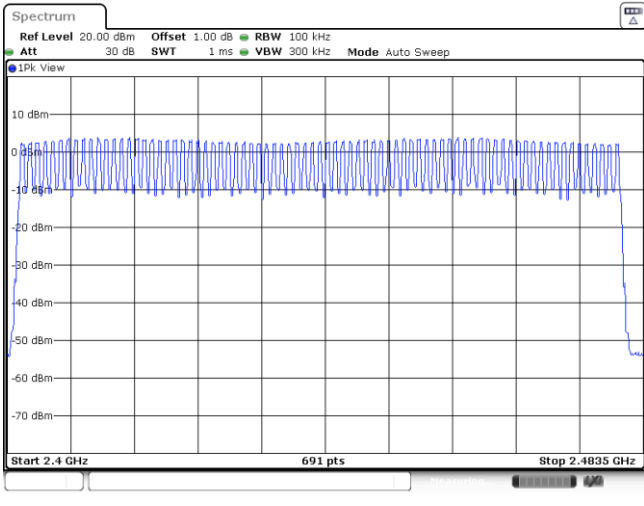
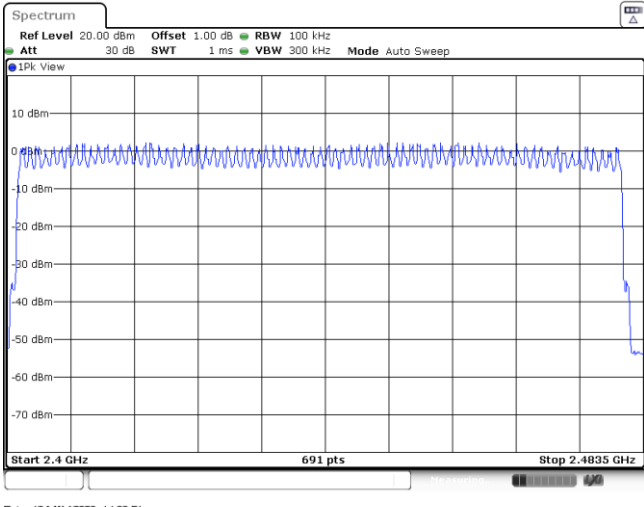
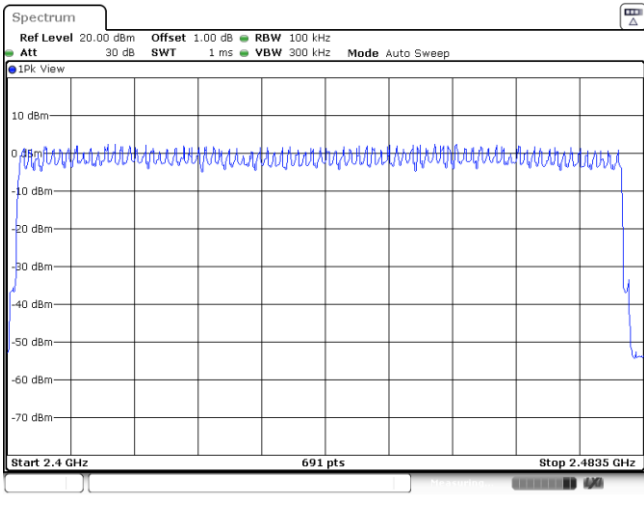
$\pi/4$ DQPSK limit = $2/3$ * The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the appendix B.

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

<p style="text-align: center;">GFSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk View</p> <p>M1[1] 0.60 dBm 2.44116522 GHz D1[1] 0.10 dB 1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 13 MAY 2020 13:37:12</p>
<p style="text-align: center;">$\pi/4$DQPSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk View</p> <p>M1[1] -1.22 dBm 2.44116522 GHz D1[1] 0.07 dB 1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 13 MAY 2020 13:44:36</p>
<p style="text-align: center;">8DPSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk View</p> <p>M1[1] -0.55 dBm 2.44116522 GHz D1[1] 0.05 dB 1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 13 MAY 2020 13:52:16</p>

Appendix E: Hopping Channel Number

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

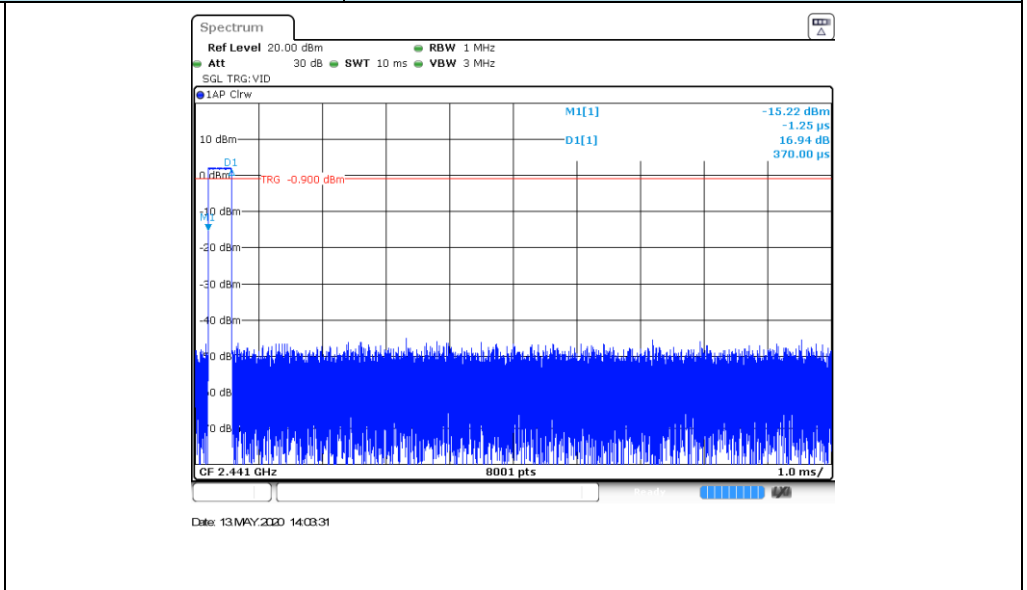
<p>GFSK</p>	
<p>$\pi/4$DQPSK</p>	
<p>8DPSK</p>	

Appendix F: Dwell Time

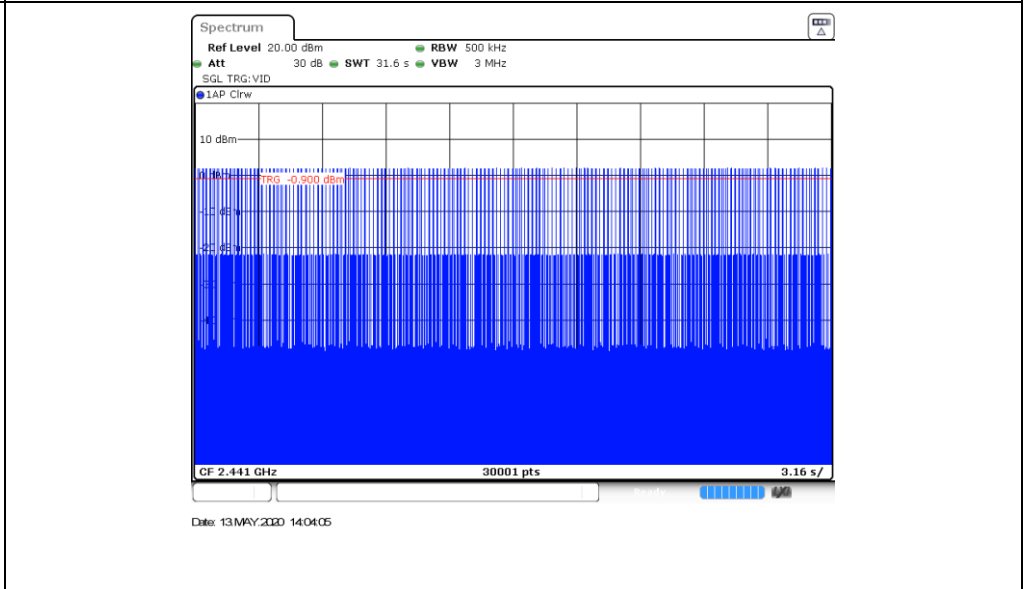
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.37	314	0.12	≤ 0.40	Pass
	DH3	1.63	159	0.26		
	DH5	2.87	103	0.30		
π/4DQPSK	2DH1	0.38	314	0.12	≤ 0.40	Pass
	2DH3	1.63	157	0.26		
	2DH5	2.88	104	0.30		
8DPSK	3DH1	0.38	315	0.12	≤ 0.40	Pass
	3DH3	1.63	159	0.26		
	3DH5	2.88	103	0.30		

Modulation Type: GFSK

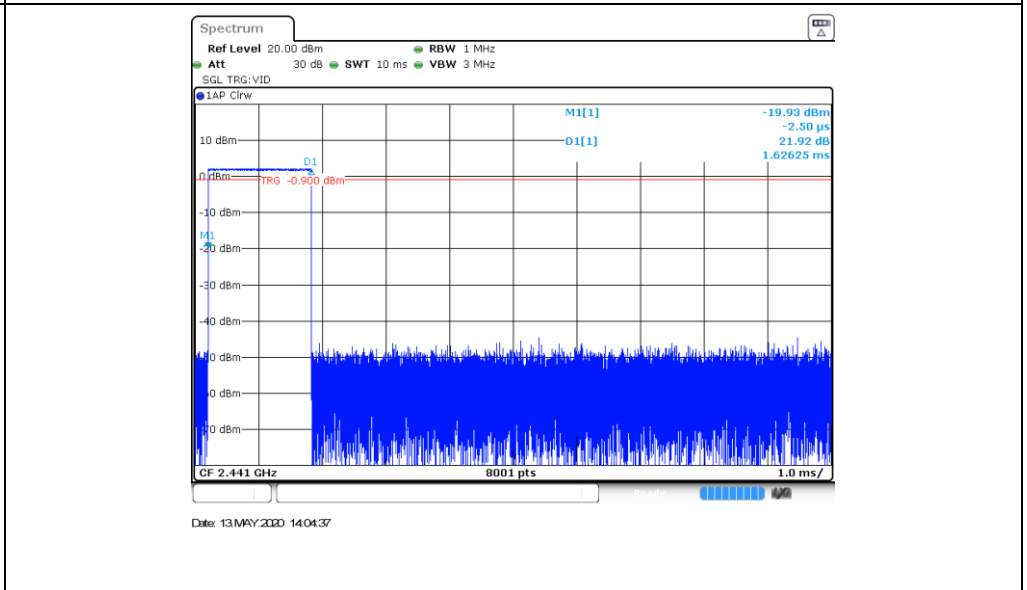
DH1
Burst width



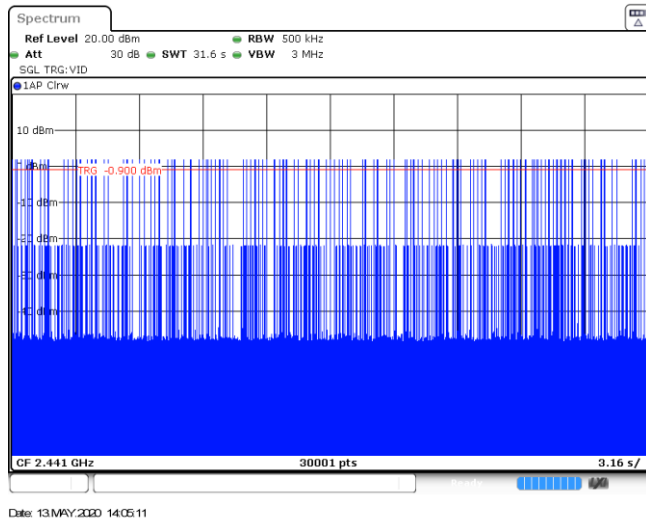
DH1
Burst number



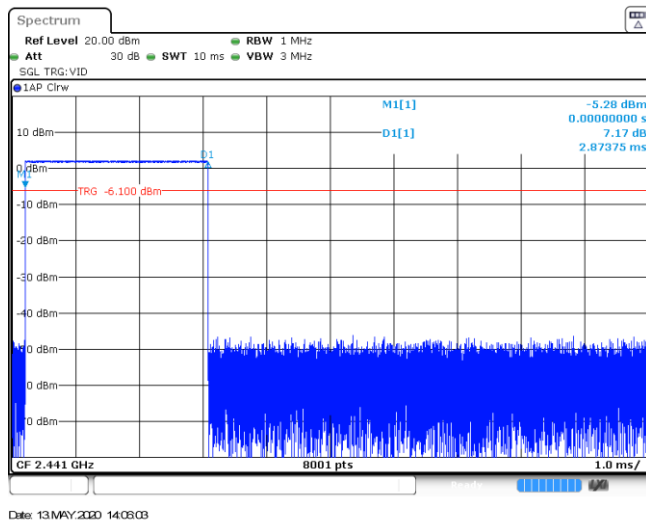
DH3
Burst width



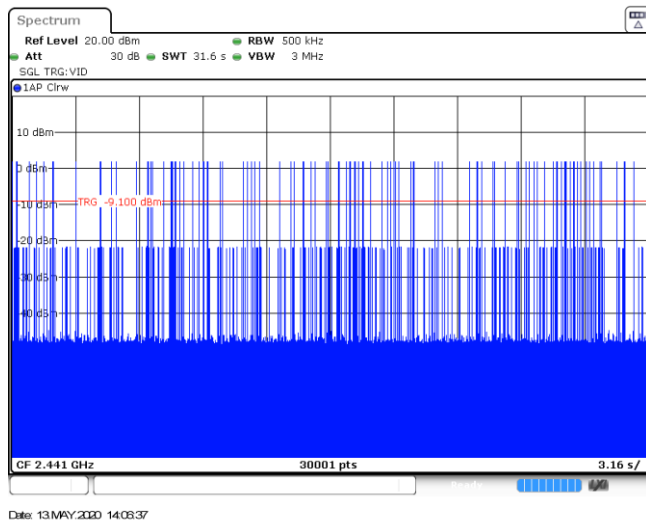
DH3
Burst number



DH5
Burst width

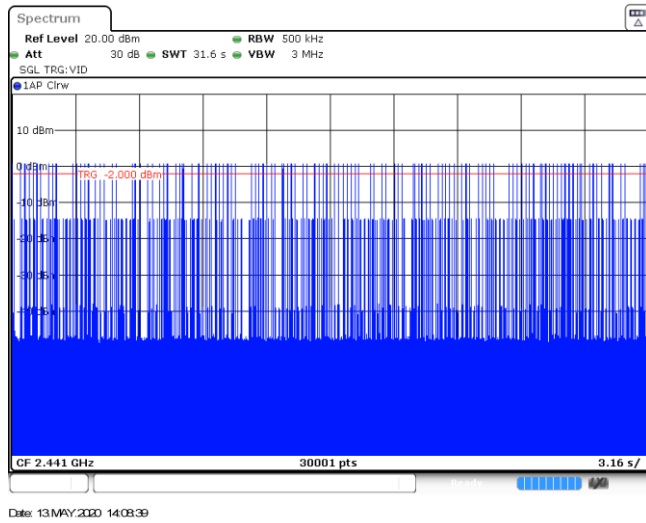


DH5
Burst number

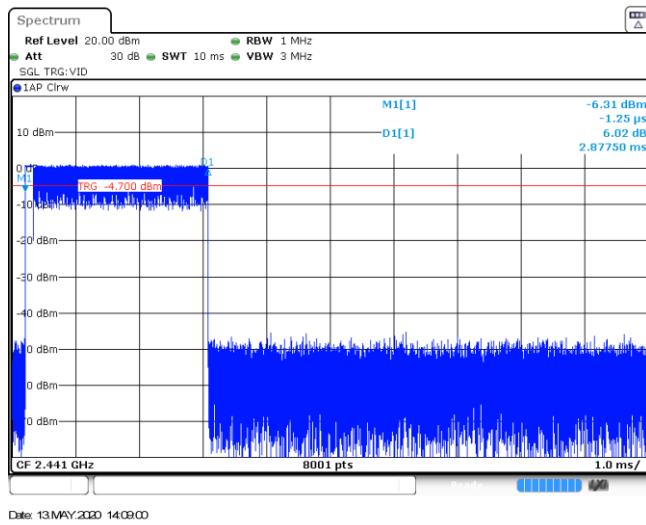


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 1 MHz</p> <p>Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>M1[1] -3.60 dBm -1.25 μs</p> <p>D1[1] 4.02 dB 376.25 μs</p> <p>TRG -2.000 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 13MAY.2020 14:07:05</p>
2DH1 Burst number	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 500 kHz</p> <p>Att 30 dB SWT 31.6 s VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>TRG -2.000 dBm</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 13MAY.2020 14:07:39</p>
2DH3 Burst width	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 1 MHz</p> <p>Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>M1[1] -10.67 dBm -1.25 μs</p> <p>D1[1] 10.80 dB 1.62875 ms</p> <p>TRG -2.000 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 13MAY.2020 14:08:05</p>

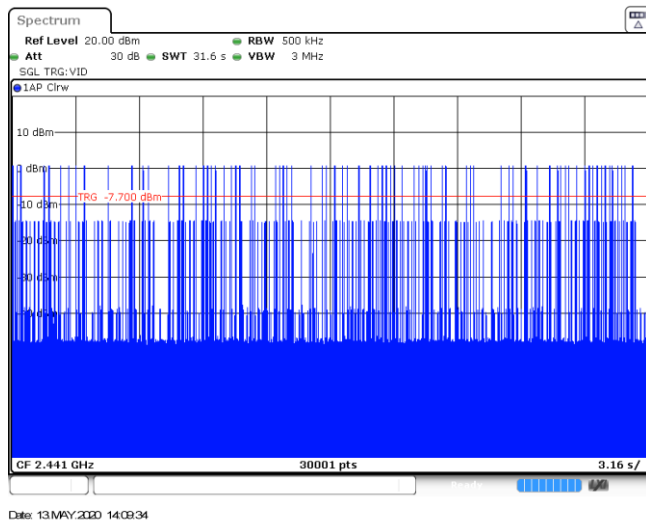
2DH3
Burst number



2DH5
Burst width

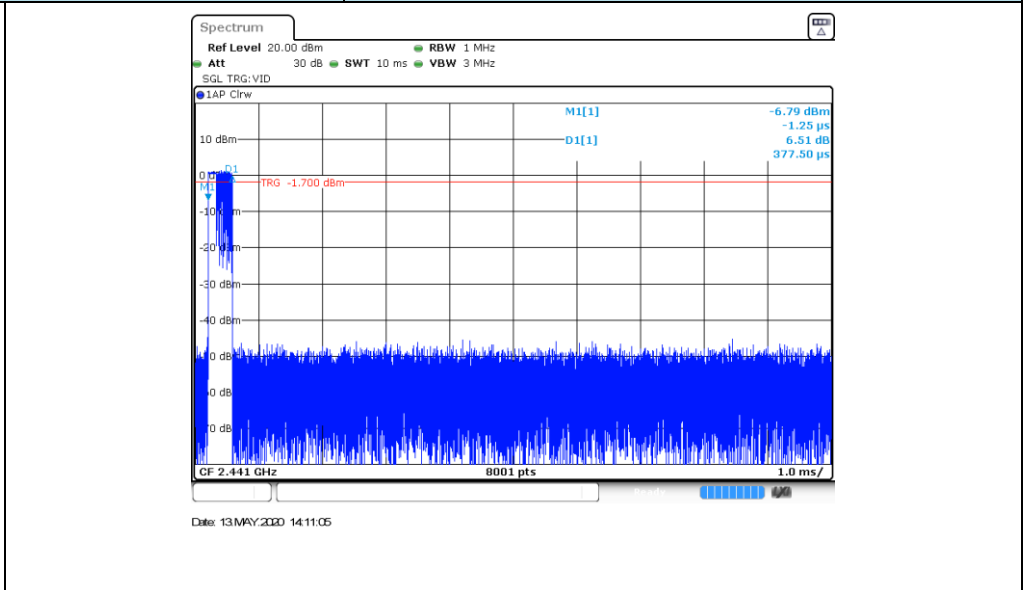


2DH5
Burst number

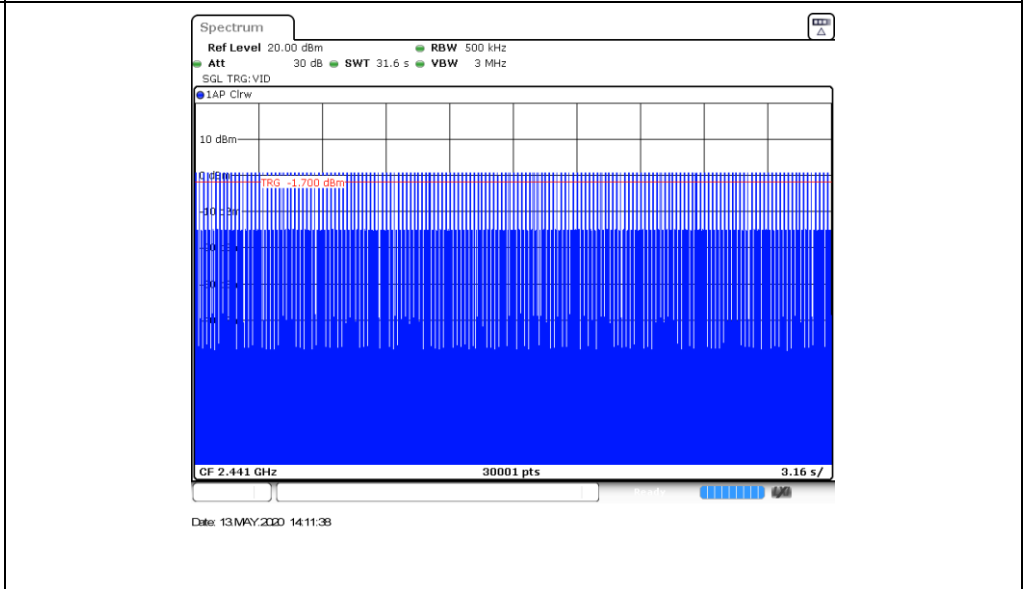


Modulation Type: 8DPSK

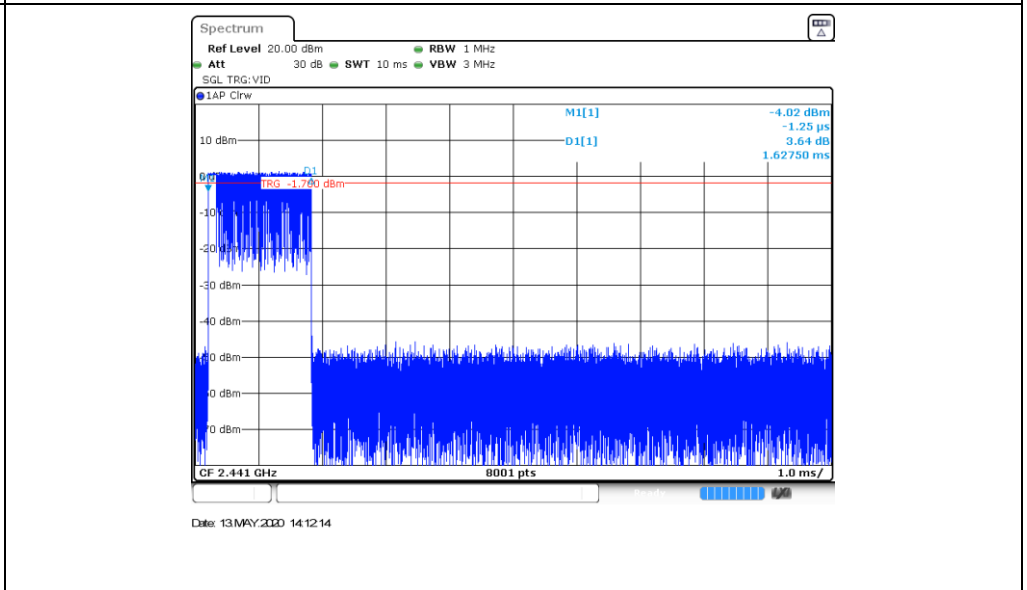
3DH1
Burst width



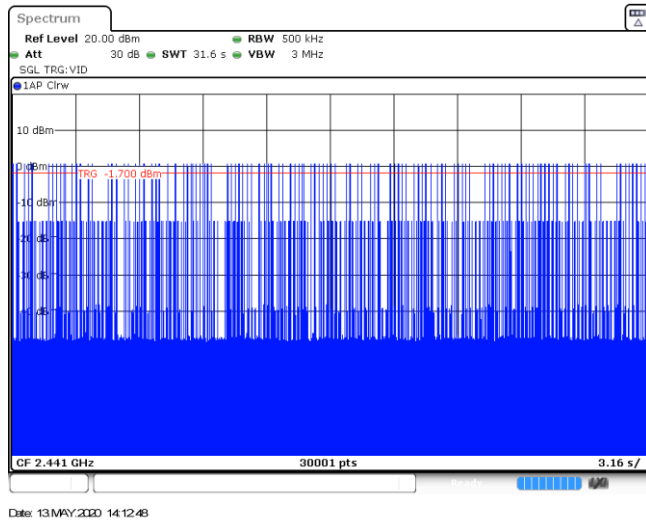
3DH1
Burst number



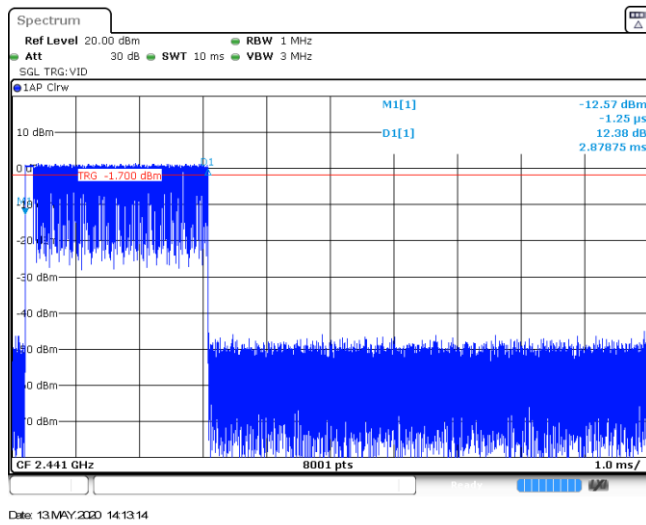
3DH3
Burst width



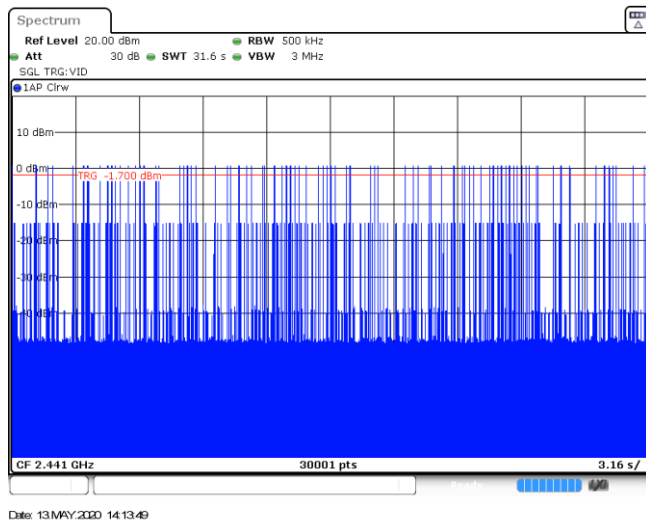
3DH3
Burst number



3DH5
Burst width

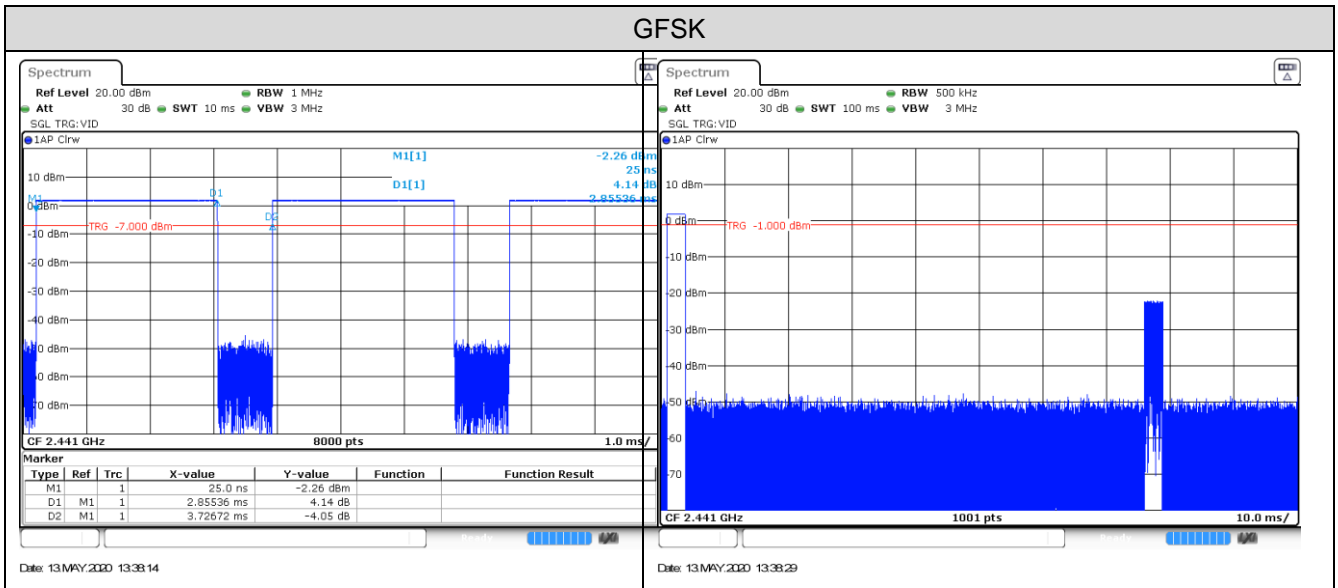


3DH5
Burst number



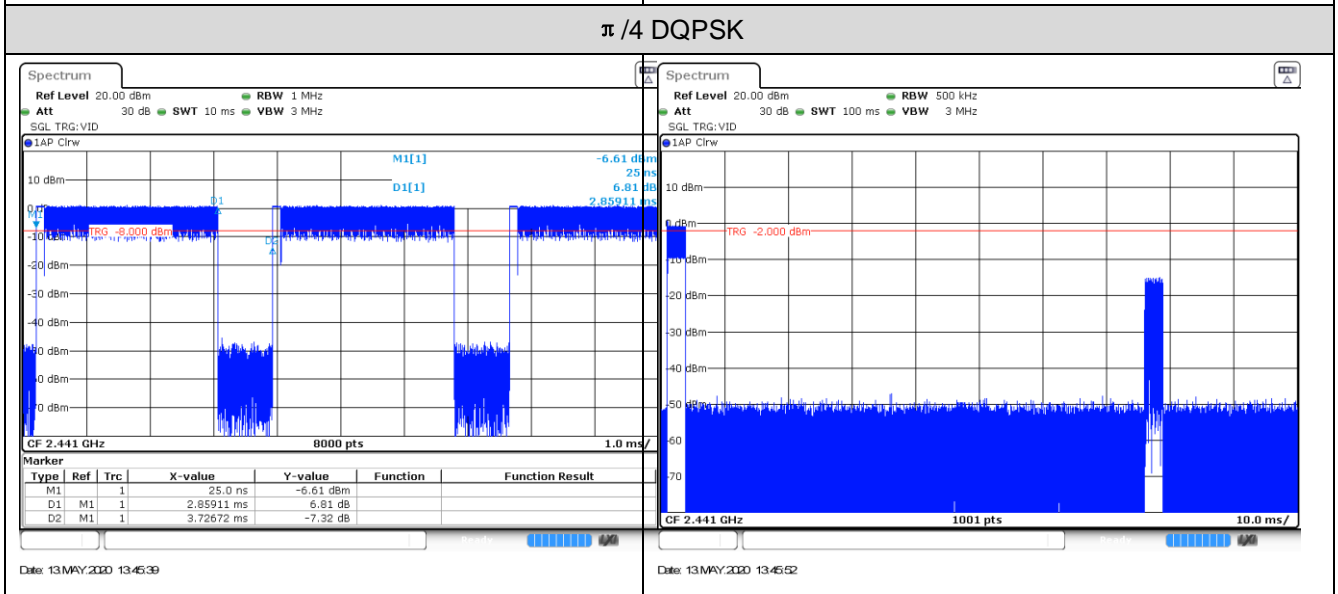
Appendix G: Duty Cycle Correction Factor (DCCF)

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	2.86	100	2	-24.85
$\pi/4$ DQPSK	2441	2.86	100	2	-24.85
8DPSK	2441	2.86	100	1	-30.87



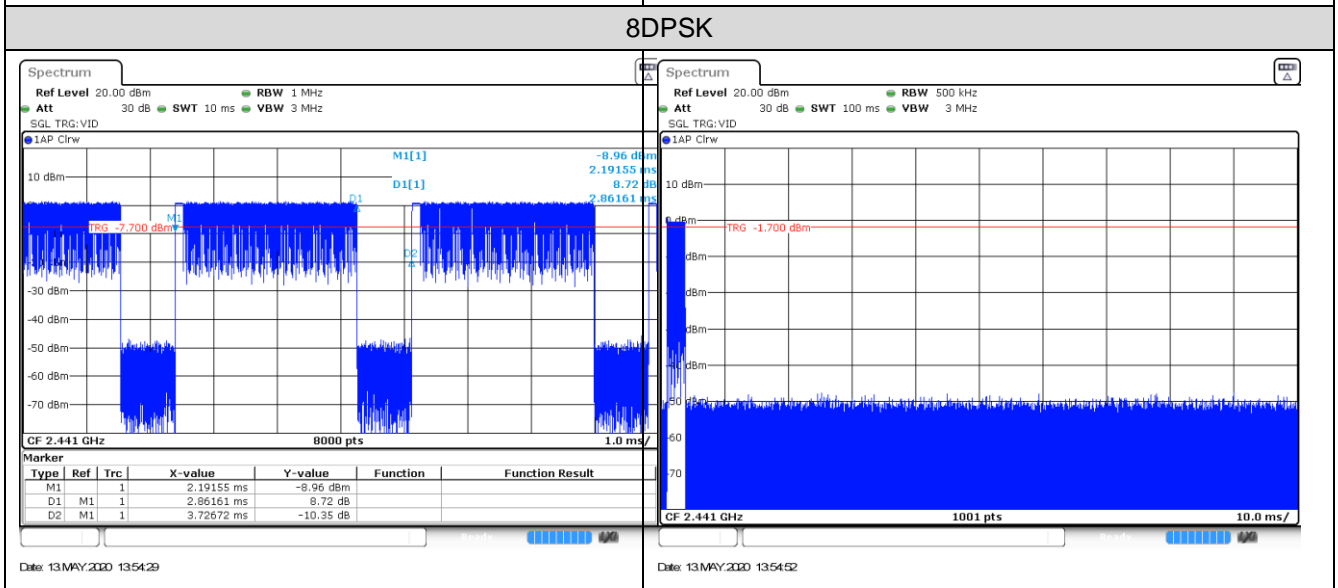
T_{on} time for single burst

Burst Quantity



T_{on} time for single burst

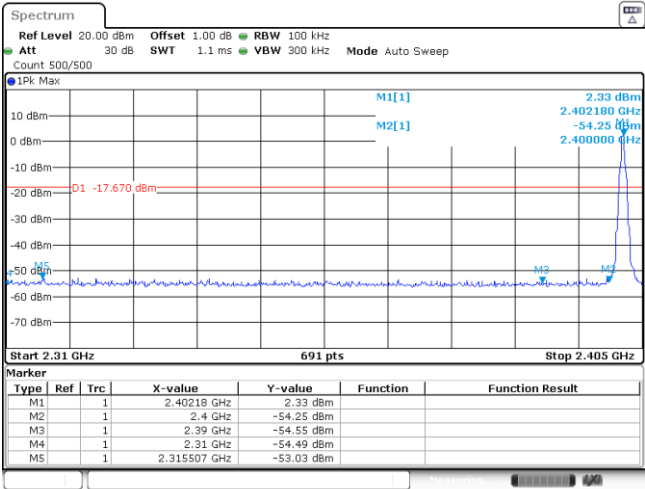
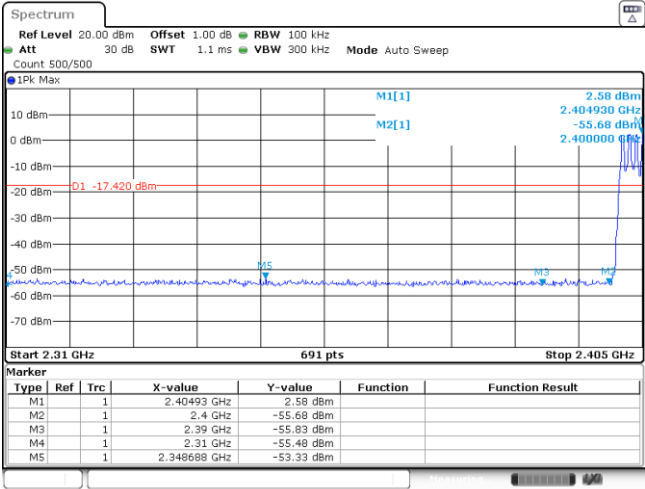
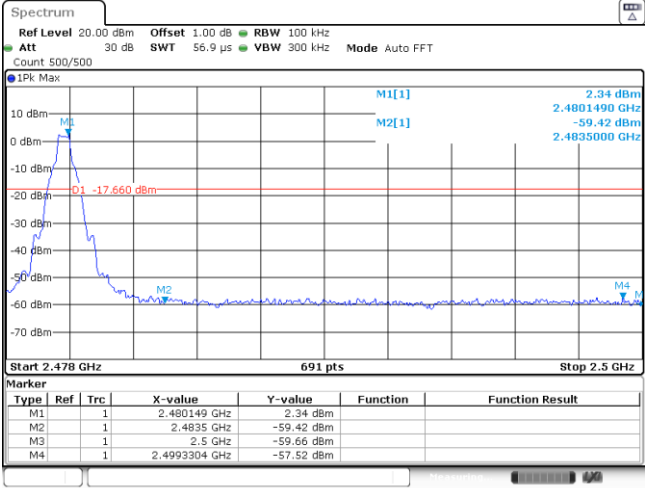
Burst Quantity



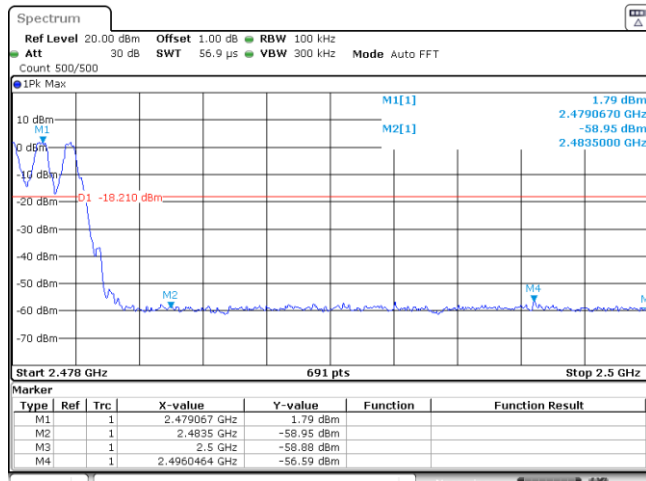
T_{on} time for single burst

Burst Quantity

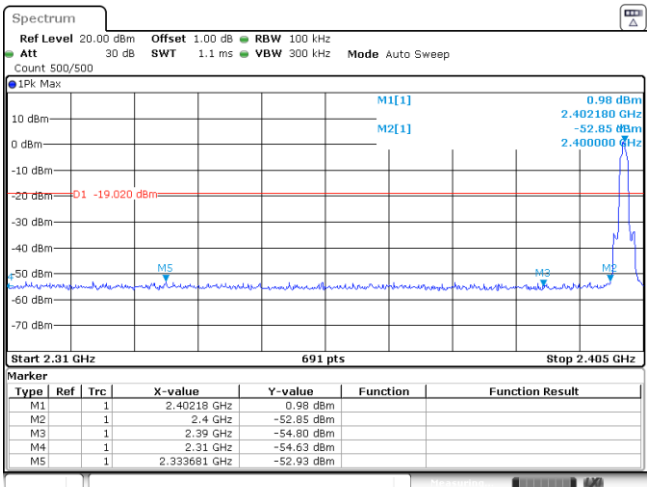
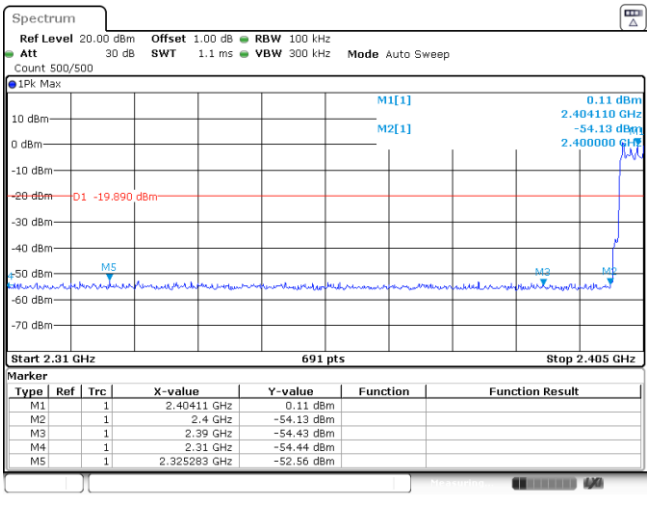
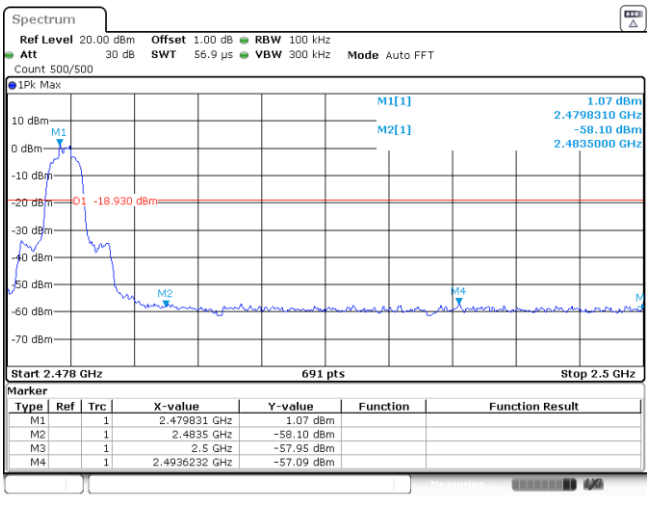
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1"> <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>2.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-54.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-54.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-54.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.315507 GHz</td> <td>-53.03 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAY.2020 13:35:34</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40218 GHz	2.33 dBm			M2		1	2.4 GHz	-54.25 dBm			M3		1	2.39 GHz	-54.55 dBm			M4		1	2.31 GHz	-54.49 dBm			M5		1	2.315507 GHz	-53.03 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.40218 GHz	2.33 dBm																																									
M2		1	2.4 GHz	-54.25 dBm																																									
M3		1	2.39 GHz	-54.55 dBm																																									
M4		1	2.31 GHz	-54.49 dBm																																									
M5		1	2.315507 GHz	-53.03 dBm																																									
<p>CH00 Hopping mode</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>2.40493 GHz</td> <td>2.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-55.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-55.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-55.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.348688 GHz</td> <td>-53.33 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAY.2020 13:59:37</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40493 GHz	2.58 dBm			M2		1	2.4 GHz	-55.68 dBm			M3		1	2.39 GHz	-55.83 dBm			M4		1	2.31 GHz	-55.48 dBm			M5		1	2.348688 GHz	-53.33 dBm		
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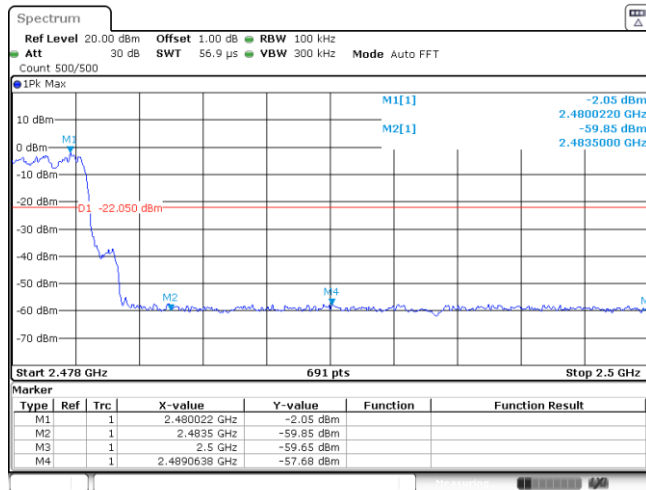
CH78
Hopping mode



Date: 13 MAY 2020 13:58:51

Test Item:	Band edge	Modulation type:	π/4DQPSK																																										
<p>CH00 No hopping mode</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1Pk Max</p> <p>0.98 dBm 2.402180 GHz -52.85 dBm 2.400000 GHz</p> <p>M1[1] M2[1]</p> <p>-19.020 dBm</p> <p>M5 M2 M3</p> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</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>1</td> <td>2.40218 GHz</td> <td>0.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-52.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-54.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-54.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.333681 GHz</td> <td>-52.93 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAY.2020 13:42:48</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40218 GHz	0.98 dBm			M2	1	1	2.4 GHz	-52.85 dBm			M3	1	1	2.39 GHz	-54.80 dBm			M4	1	1	2.31 GHz	-54.63 dBm			M5	1	1	2.333681 GHz	-52.93 dBm		
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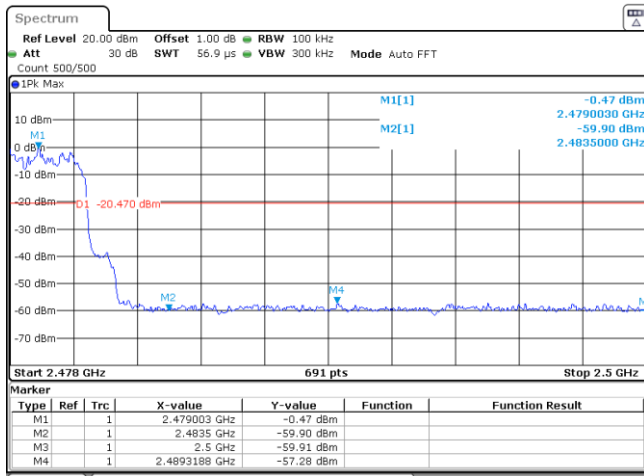
CH78
Hopping mode



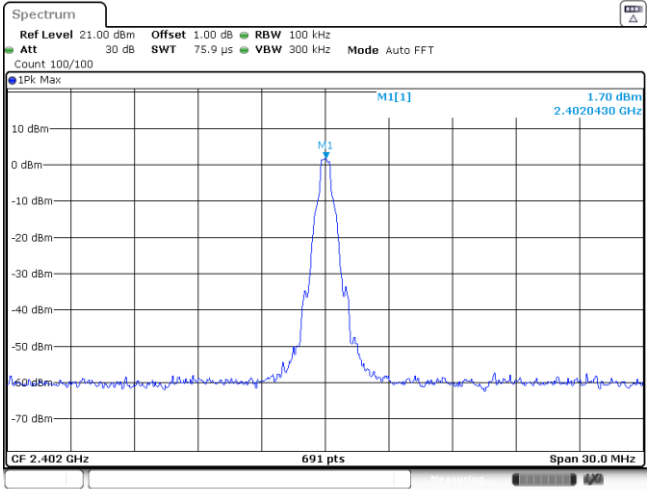
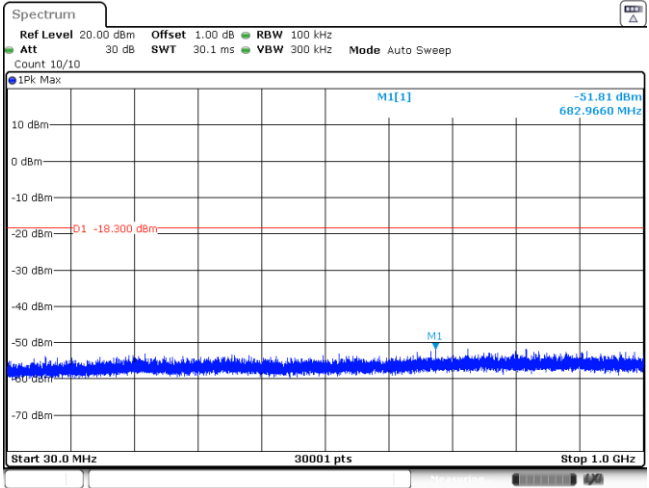
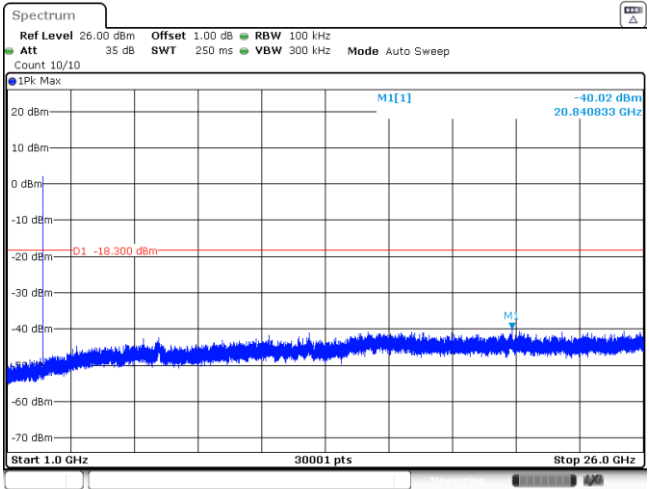
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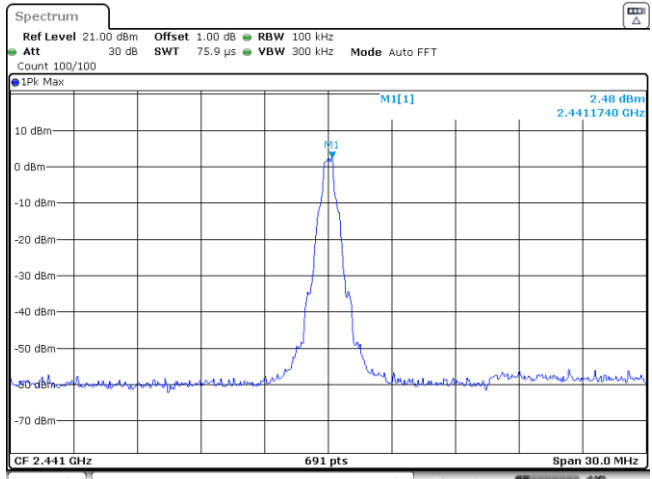
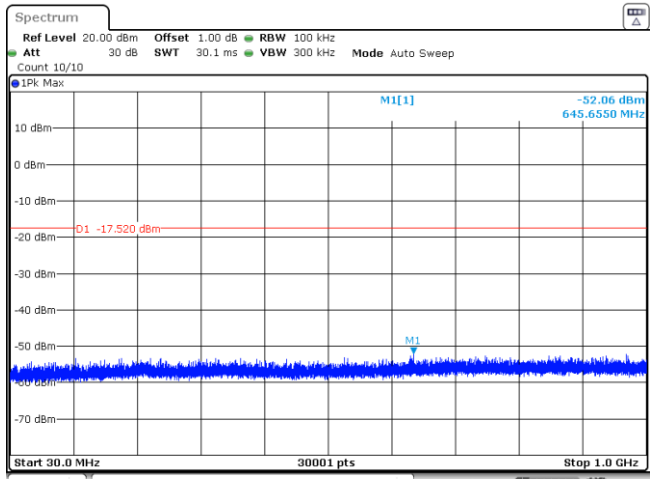
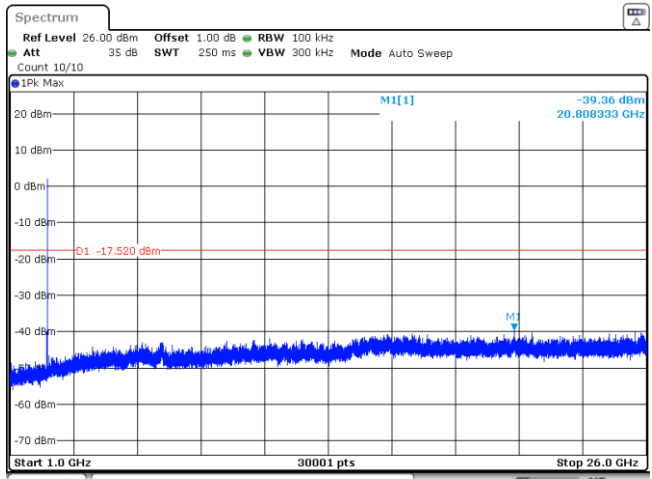
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1Pk Max</p> <p>10 dBm M1[1] 1.07 dBm 2.402180 GHz 0 dBm M2[1] -53.20 dBm 2.400000 GHz -10 dBm -20 dBm D1 -18.930 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</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>2.40218 GHz</td> <td>1.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-55.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-54.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399493 GHz</td> <td>-52.27 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13MAY.2020 13:50:41</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	1.07 dBm			M2	1		2.4 GHz	-53.20 dBm			M3	1		2.39 GHz	-55.06 dBm			M4	1		2.31 GHz	-54.56 dBm			M5	1		2.399493 GHz	-52.27 dBm		
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CH78
Hoppig mode

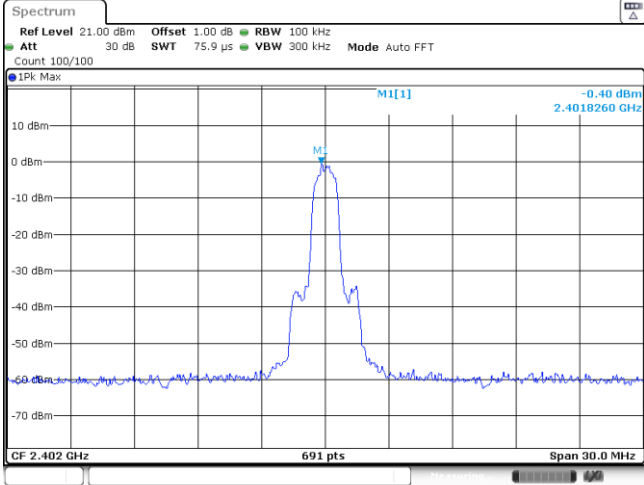
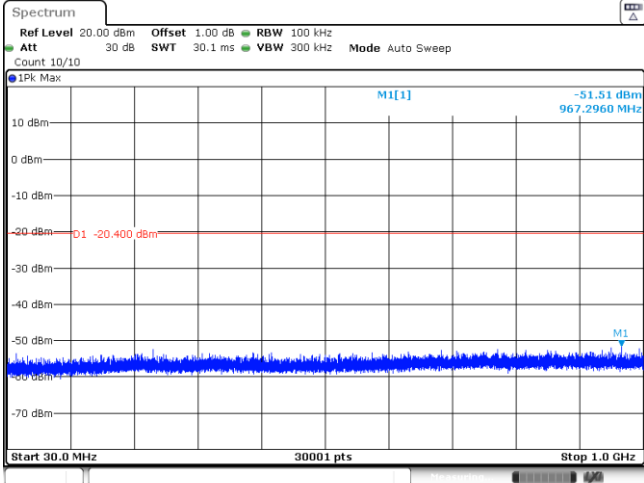
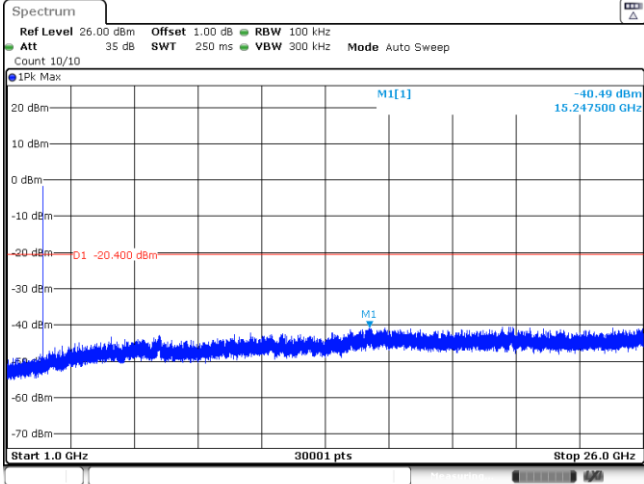


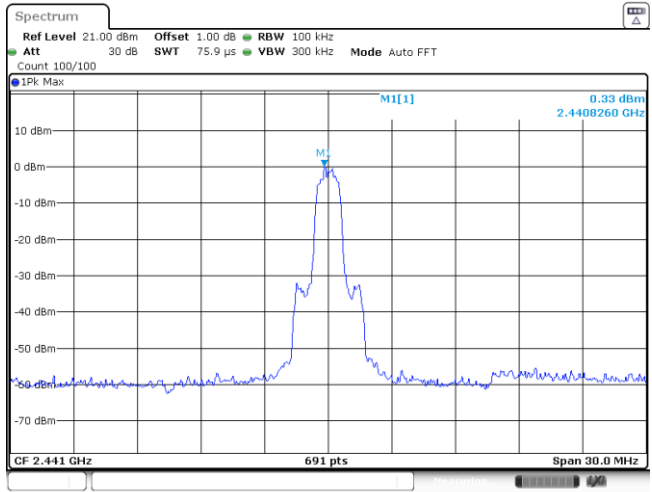
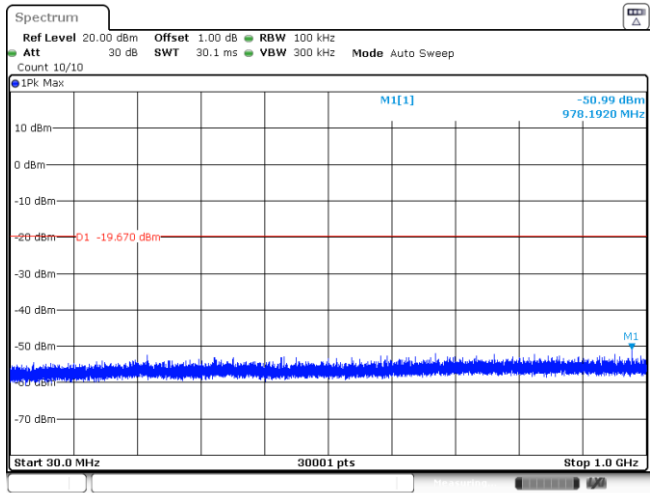
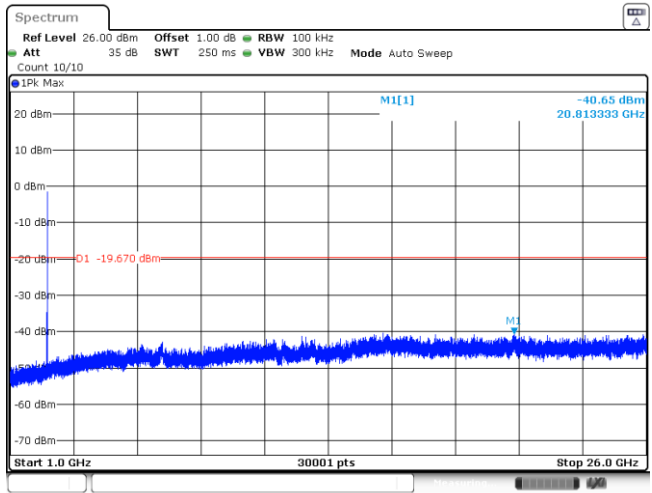
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Test Item:	Spurious Emission	Modulation type:	GFSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -51.81 dBm 692.9660 MHz D1 -18.300 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13MAY.2020 13:35:59</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -40.02 dBm 20.840833 GHz D1 -18.300 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13MAY.2020 13:36:14</p>		

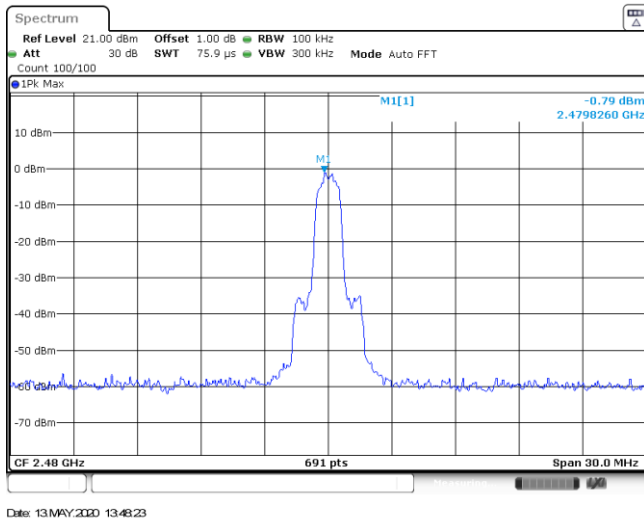
<p>CH39 Reference level</p>	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 2.48 dBm 2.4411740 GHz</p> <p>CF 2.441 GHz 691 pts Span 30.0 MHz</p> <p>Date: 13 MAY 2020 13:38:45</p>
<p>CH39 30MHz~1000MHz</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] -52.06 dBm 645.6550 MHz</p> <p>D1 -17.520 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 13 MAY 2020 13:39:01</p>
<p>CH39 1GHz~26GHz</p>	 <p>Spectrum</p> <p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>IPK Max</p> <p>M1[1] -39.36 dBm 20.808333 GHz</p> <p>D1 -17.520 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 13 MAY 2020 13:39:17</p>

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

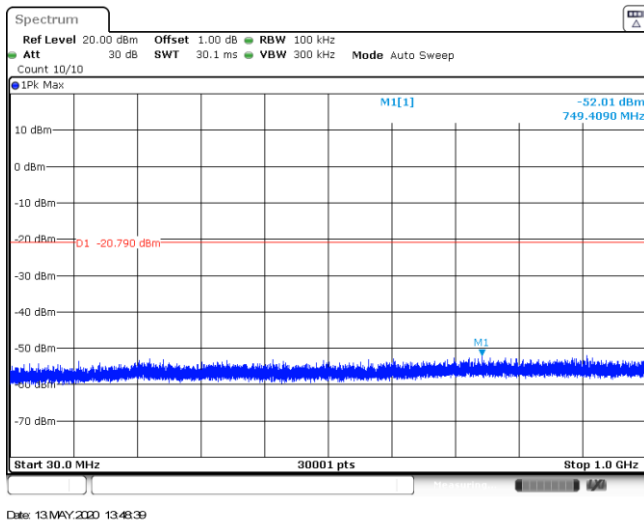
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -0.40 dBm 2.4018260 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 13 MAY 2020 13:42:54</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -51.51 dBm 967.2960 MHz D1 -20.400 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 MAY 2020 13:43:10</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -40.49 dBm 15.247500 GHz D1 -20.400 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 MAY 2020 13:43:26</p>		

<p>CH39 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 IPK Max M1[1] 0.33 dBm 2.4408260 GHz CF 2.441 GHz 691 pts Span 30.0 MHz Date: 13 MAY 2020 13:46:07</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -50.99 dBm 978.1920 MHz Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 MAY 2020 13:46:23</p>
<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -40.65 dBm 20.813333 GHz Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 MAY 2020 13:46:30</p>

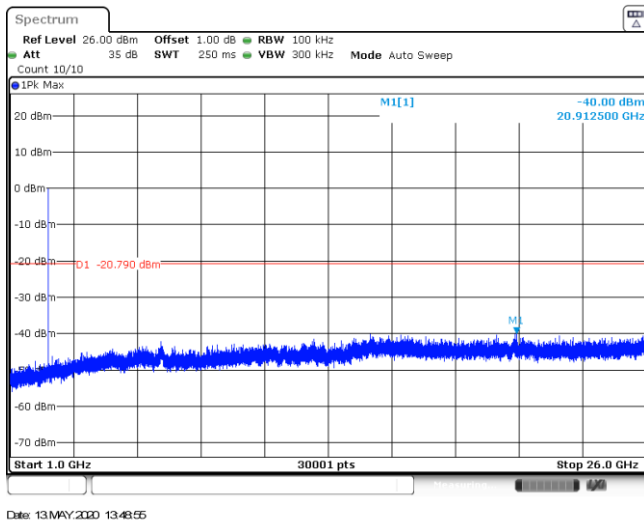
CH78
Reference level

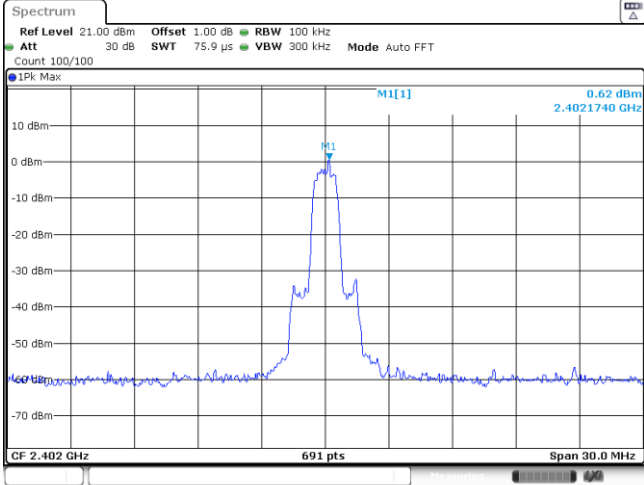
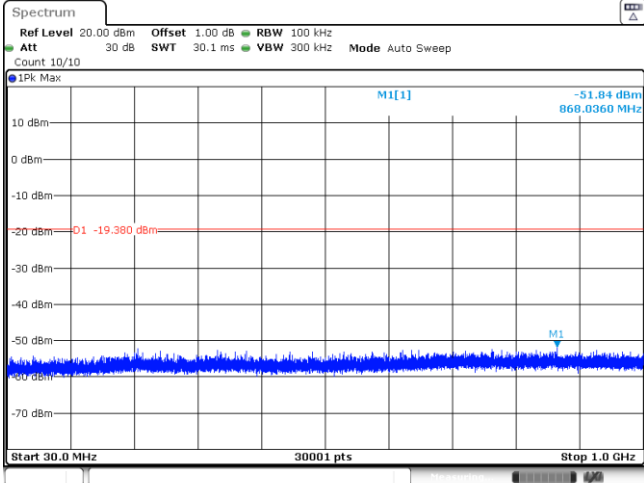
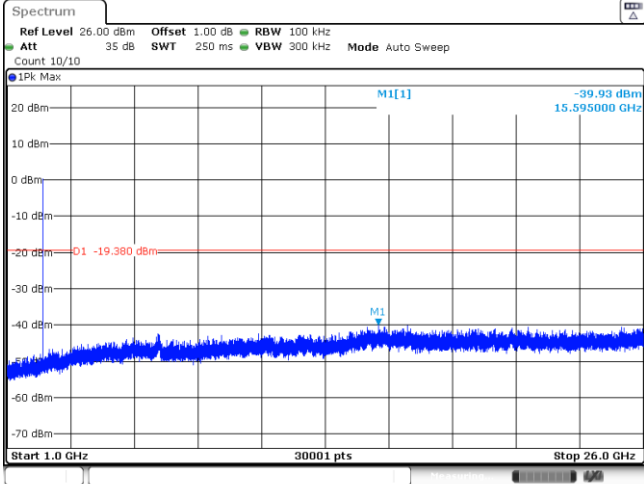


CH78
30MHz~1000MHz



CH78
1GHz~26GHz



Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>1Pk Max: 0.62 dBm @ 2.4021740 GHz</p> <p>CF 2.402 GHz, 691 pts, Span 30.0 MHz</p> <p>Date: 13MAY.2020 13:50:48</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>1Pk Max: -51.84 dBm @ 868.0360 MHz</p> <p>Start 30.0 MHz, 30001 pts, Stop 1.0 GHz</p> <p>Date: 13MAY.2020 13:51:04</p>		
<p>CH00 1GHz~26GHz</p>	 <p>1Pk Max: -39.93 dBm @ 15.595000 GHz</p> <p>Start 1.0 GHz, 30001 pts, Stop 26.0 GHz</p> <p>Date: 13MAY.2020 13:51:20</p>		

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

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

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