

# APPENDIX REPORT

Project No.	SHT1912068505EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT19120685043	Model No.	iData 50
Start test date	2019/12/31	Finish date	2019/12/31
Temperature	25°C	Humidity	50%
Test Engineer	Ximing Huang	Auditor	<i>William.wang</i>

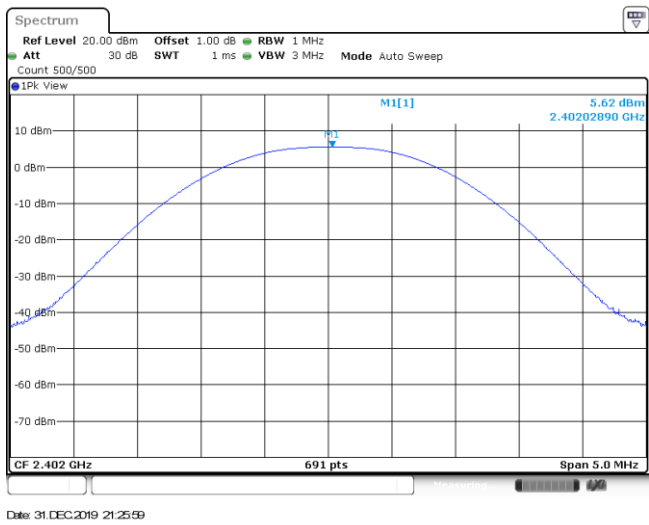
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	Carrier Frequencies Separation	PASS
D	Hopping Channel Number	PASS
E	Dwell Time	PASS
F	Duty Cycle Correction Factor (DCCF)	PASS
G	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

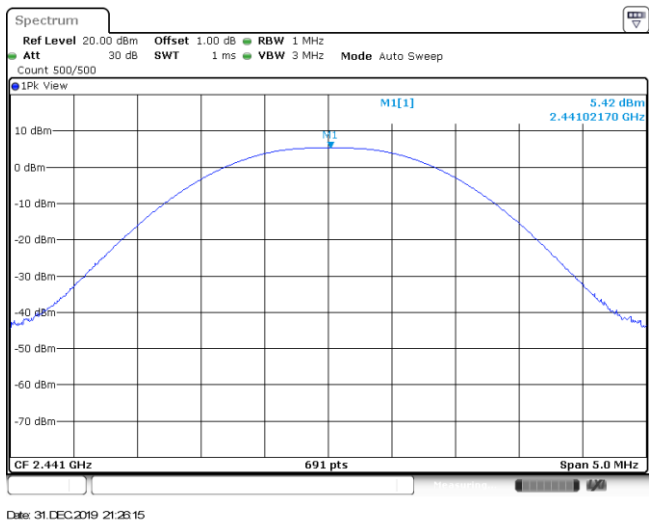
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	5.62	5.60	≤ 30.00	Pass
	39	5.42	5.39		
	78	4.11	4.08		
π/4DQPSK	00	6.21	6.11	≤ 21.00	Pass
	39	5.82	5.72		
	78	4.68	4.56		
8DPSK	00	4.91	4.82	≤ 21.00	Pass
	39	4.81	4.70		
	78	3.13	3.02		

**Modulation Type: GFSK**

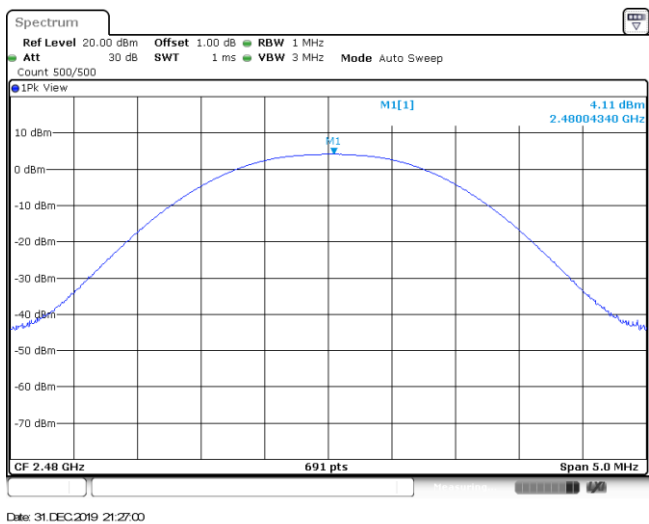
CH00



CH39



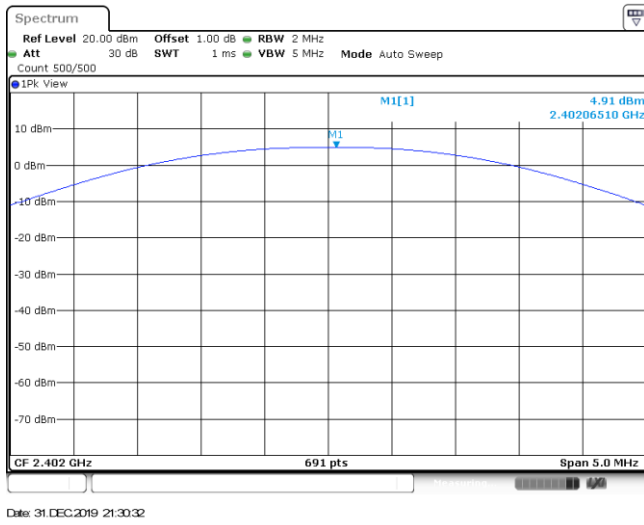
CH78



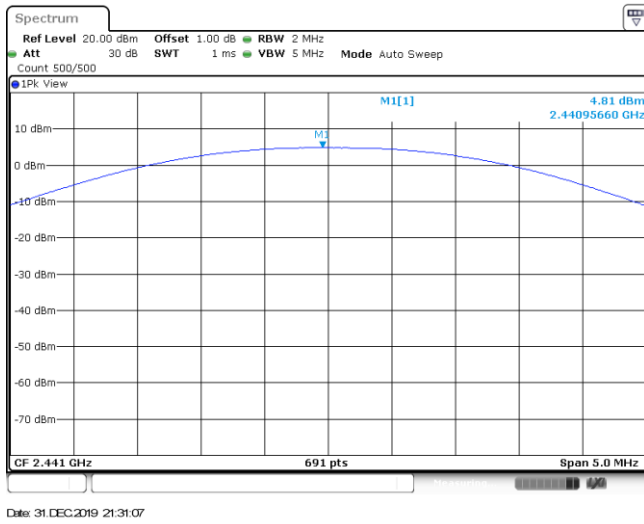
Modulation Type: $\pi/4$ DQPSK	
CH00	<p>CF: 2.402 GHz      691 pts      Span 5.0 MHz</p> <p>Date: 31 DEC 2019 21:27:26</p>
CH39	<p>CF: 2.441 GHz      691 pts      Span 5.0 MHz</p> <p>Date: 31 DEC 2019 21:28:02</p>
CH78	<p>CF: 2.48 GHz      691 pts      Span 5.0 MHz</p> <p>Date: 31 DEC 2019 21:28:24</p>

**Modulation Type: 8DPSK**

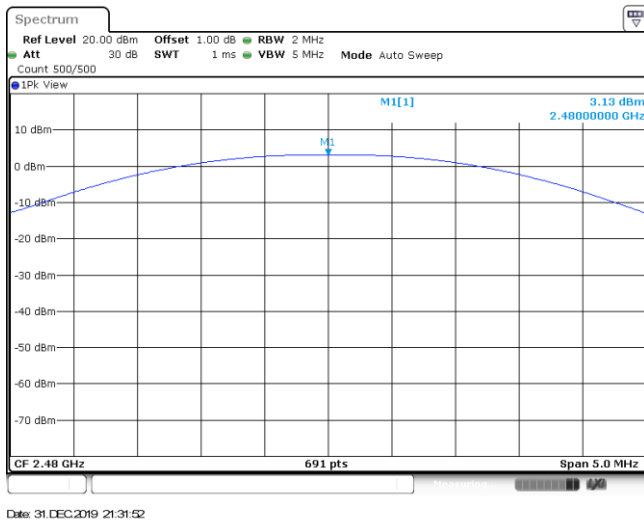
CH00



CH39



CH78

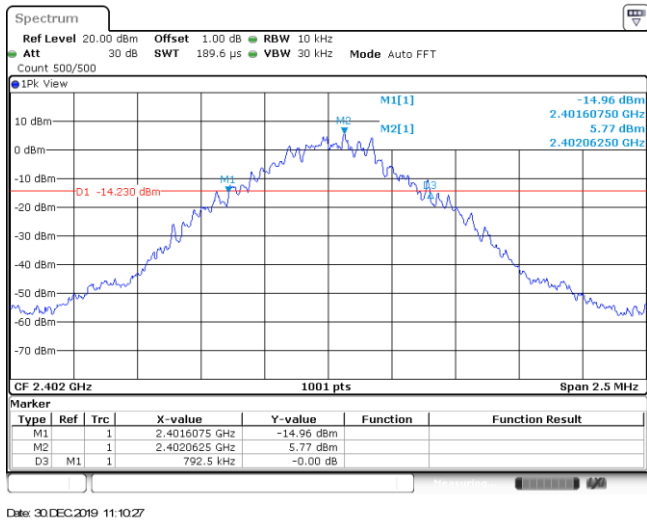


**Appendix B : 20 dB Bandwidth**

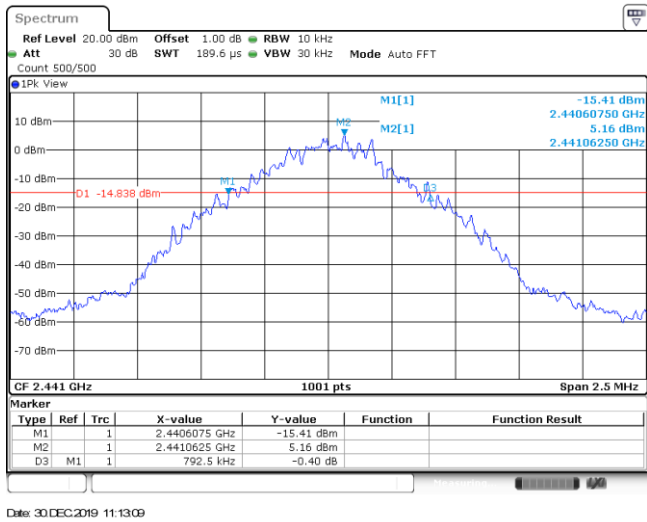
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	792.50	-	Pass
	39	792.50		
	78	792.50		
$\pi/4$ DQPSK	00	1270.00	-	Pass
	39	1267.50		
	78	1265.00		
8DPSK	00	1265.00	-	Pass
	39	1257.50		
	78	1257.50		

**Modulation Type: GFSK**

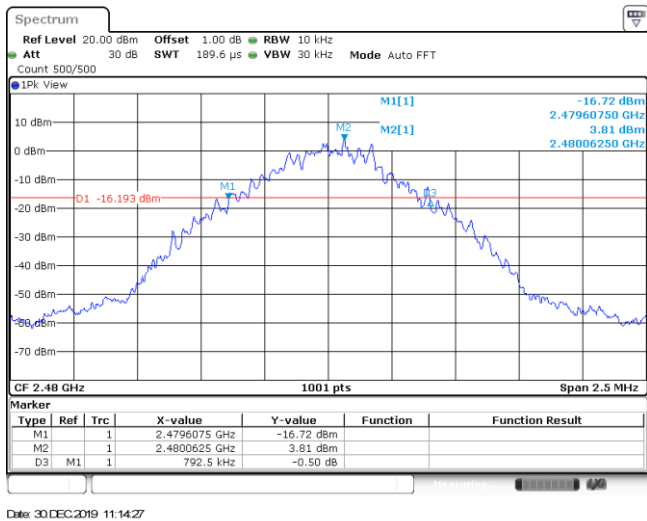
CH00



CH39

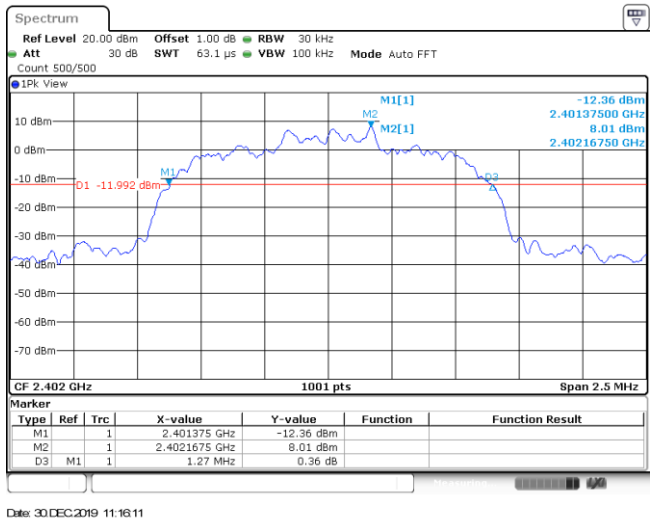


CH78

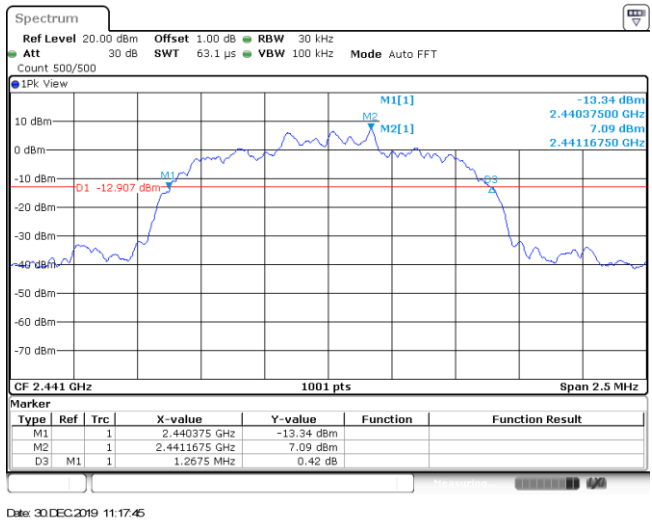


**Modulation Type:**  **$\pi/4$ DQPSK**

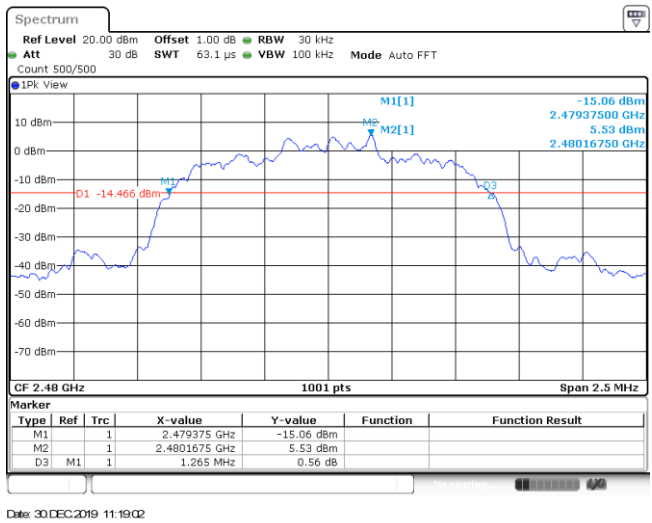
CH00



CH39



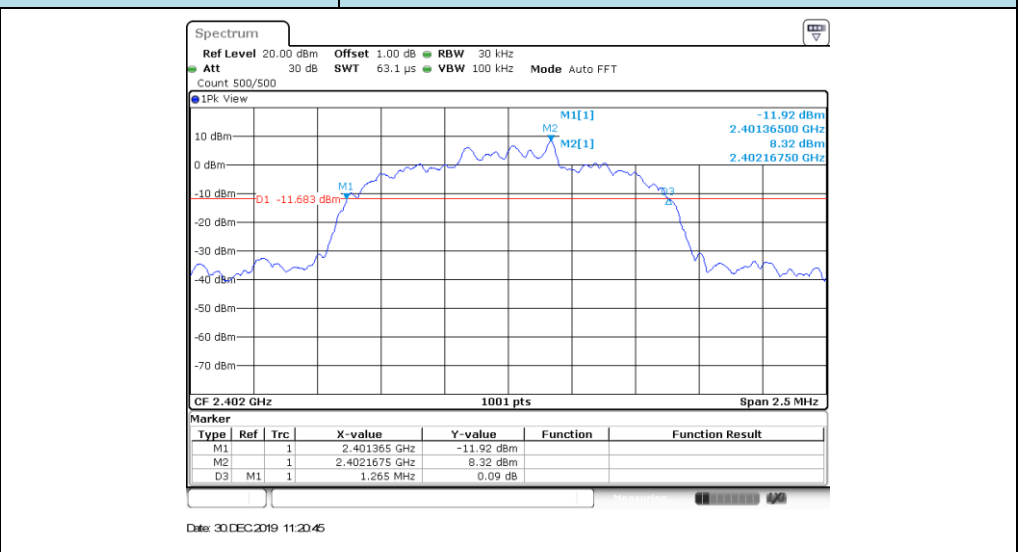
CH78



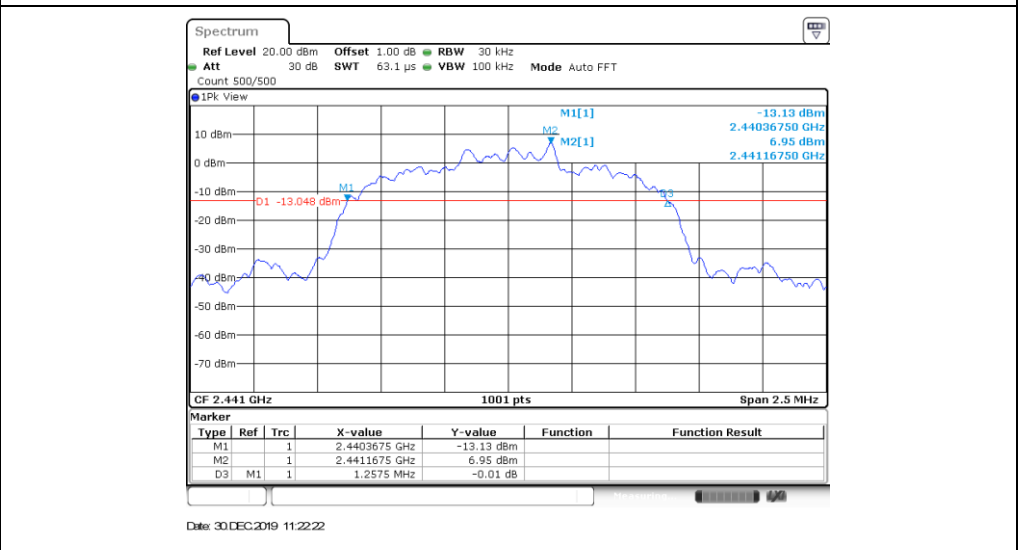


**Modulation Type: 8DPSK**

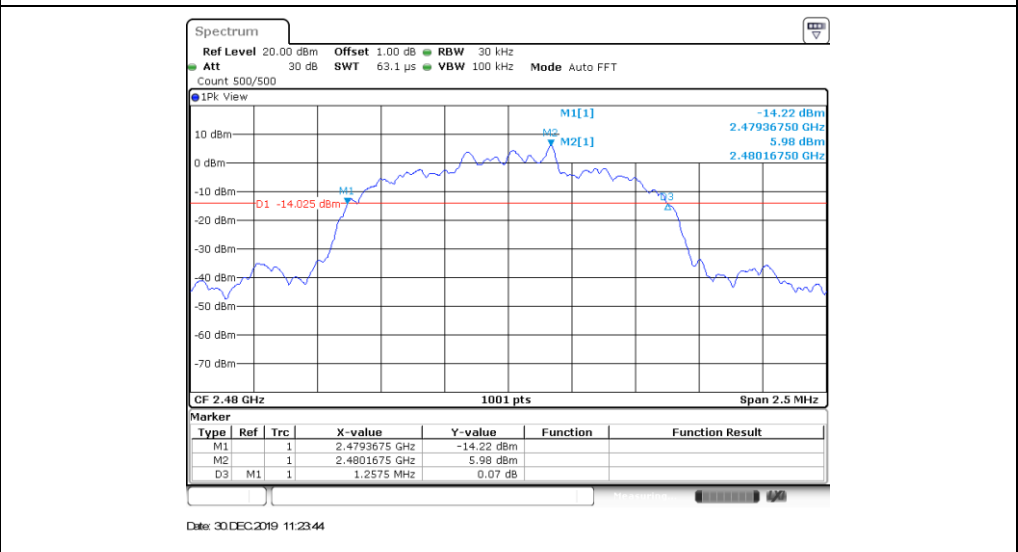
CH00



CH39



CH78



**Appendix C: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥792.50	Pass
$\pi/4$ DQPSK	39	1.00	≥846.67	Pass
8DPSK	39	1.00	≥843.33	Pass

**Note:**

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

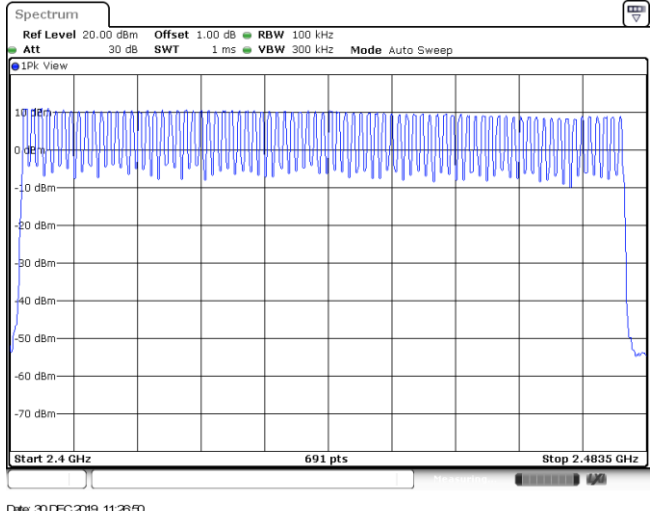
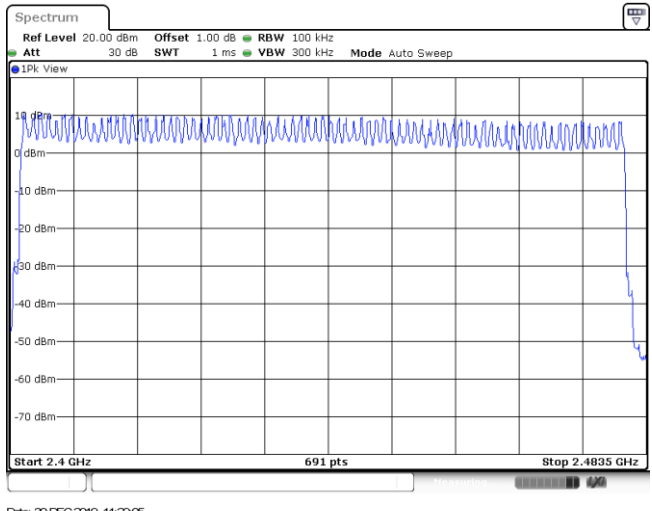
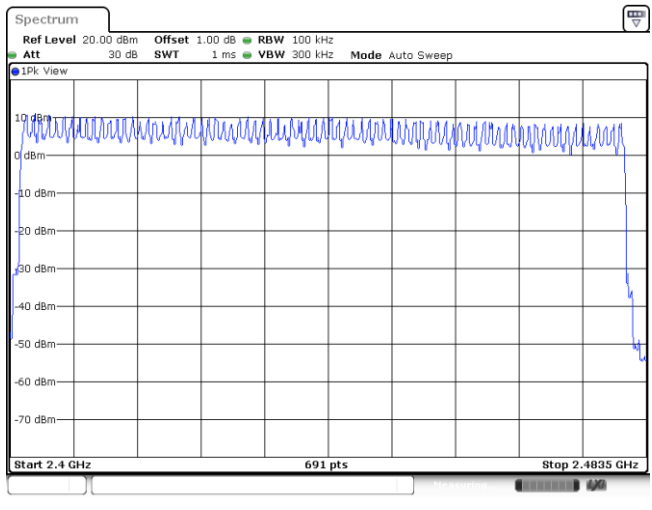
$\pi/4$ DQPSK limit =  $2/3$  \* The maximum 20 dB Bandwidth for  $\pi/4$ DQPSK modulation on the appendix B.

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

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

**Appendix D: Hopping Channel Number**

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

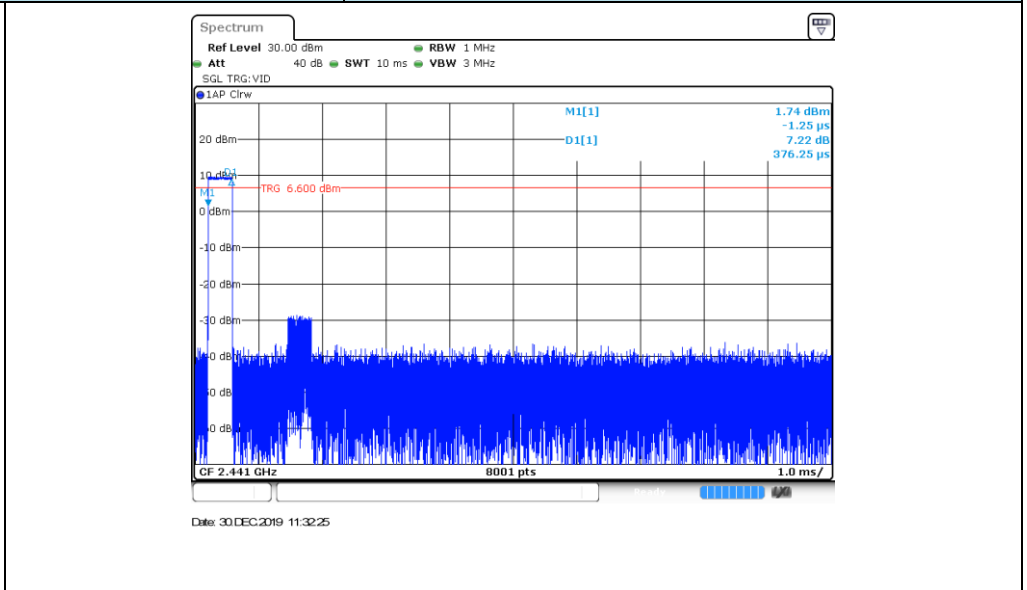
<p>GFSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 30 DEC 2019 11:28:50</p>
<p><math>\pi/4</math>DQPSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 30 DEC 2019 11:29:05</p>
<p>8DPSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 30 DEC 2019 11:31:19</p>

**Appendix E: Dwell Time**

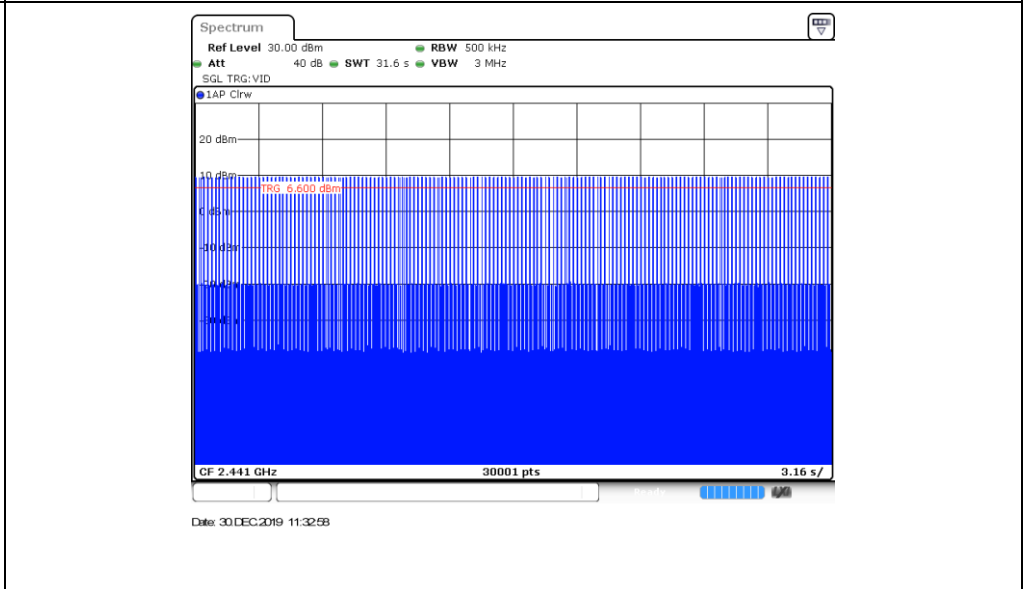
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	313	0.12	≤ 0.40	Pass
	DH3	1.63	160	0.26		
	DH5	2.88	99	0.28		
π/4DQPSK	2DH1	0.38	313	0.12	≤ 0.40	Pass
	2DH3	1.64	159	0.26		
	2DH5	2.88	105	0.30		
8DPSK	3DH1	0.39	315	0.12	≤ 0.40	Pass
	3DH3	1.64	157	0.26		
	3DH5	2.89	105	0.30		

**Modulation Type: GFSK**

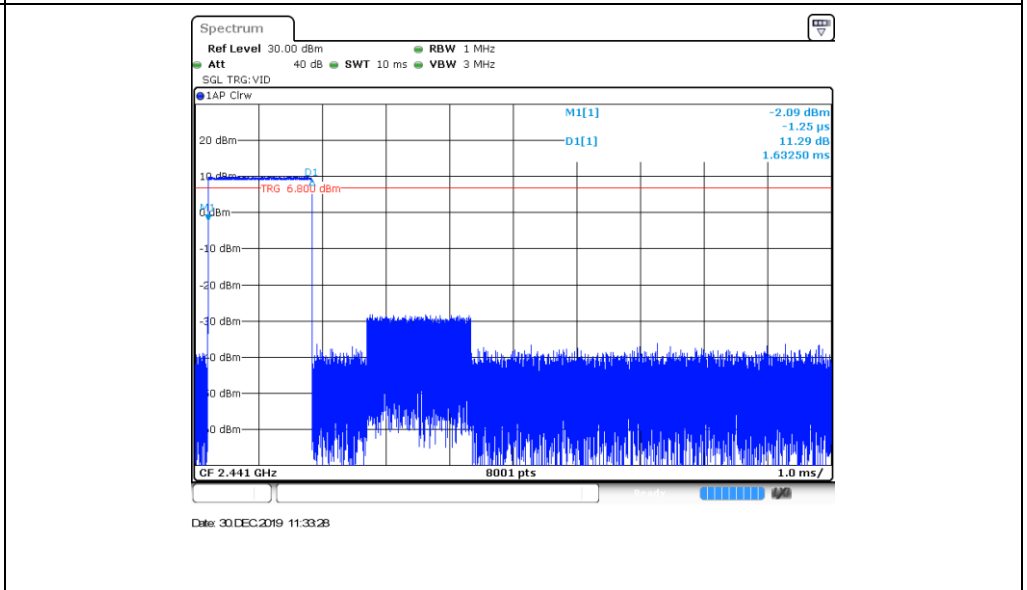
DH1  
Burst width



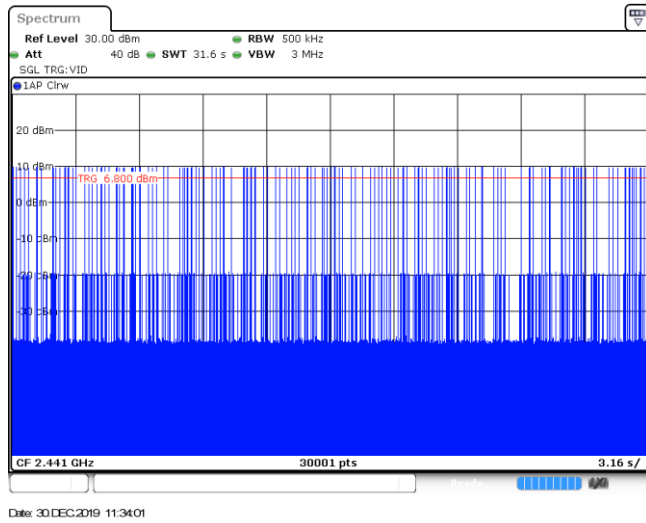
DH1  
Burst number



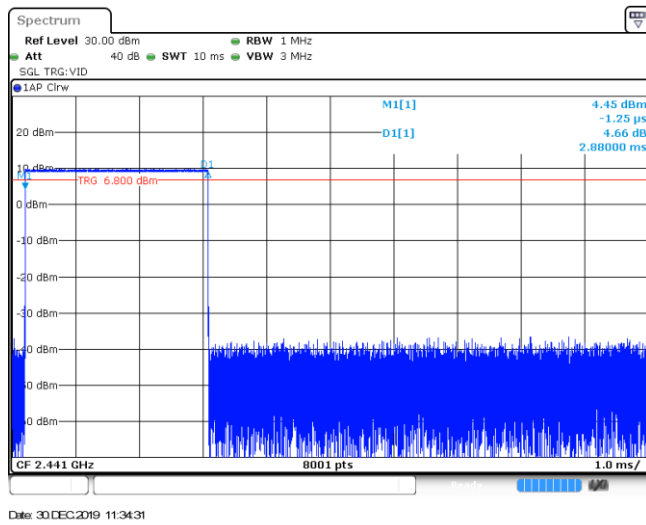
DH3  
Burst width



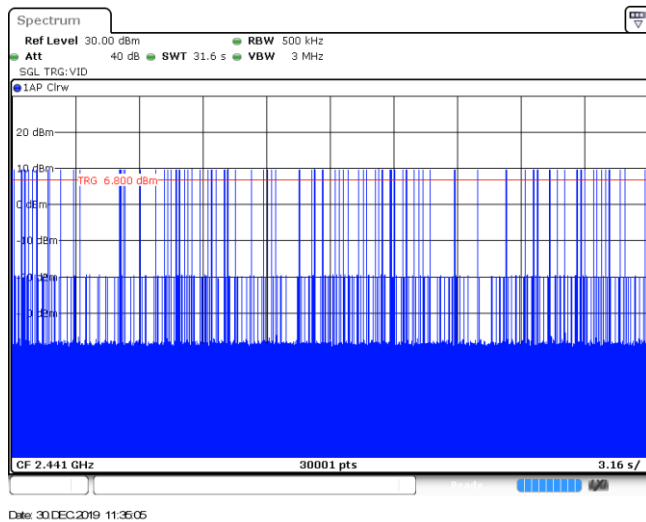
DH3  
Burst number



DH5  
Burst width



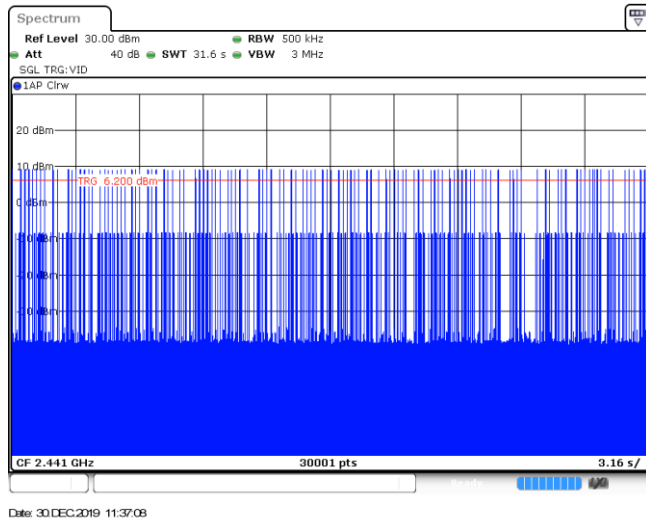
DH5  
Burst number



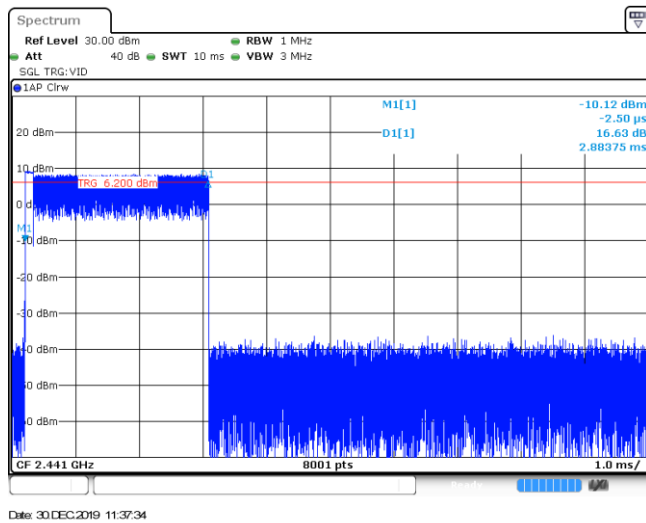


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>Date: 30 DEC 2019 11:35:33</p>
2DH1 Burst number	<p>Date: 30 DEC 2019 11:35:07</p>
2DH3 Burst width	<p>Date: 30 DEC 2019 11:35:34</p>

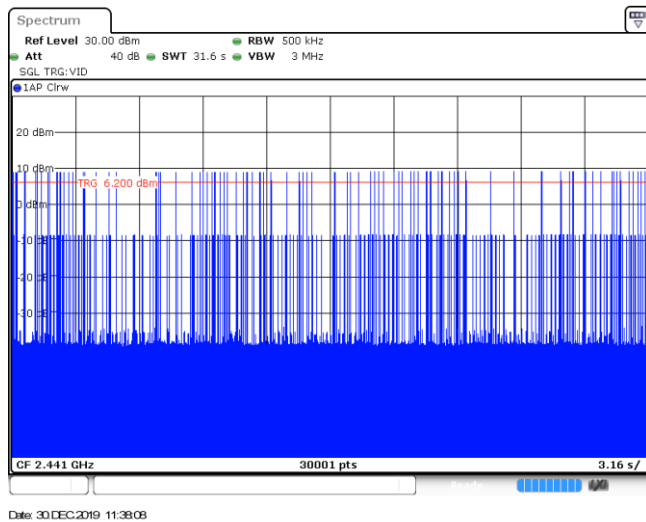
2DH3  
Burst number



2DH5  
Burst width

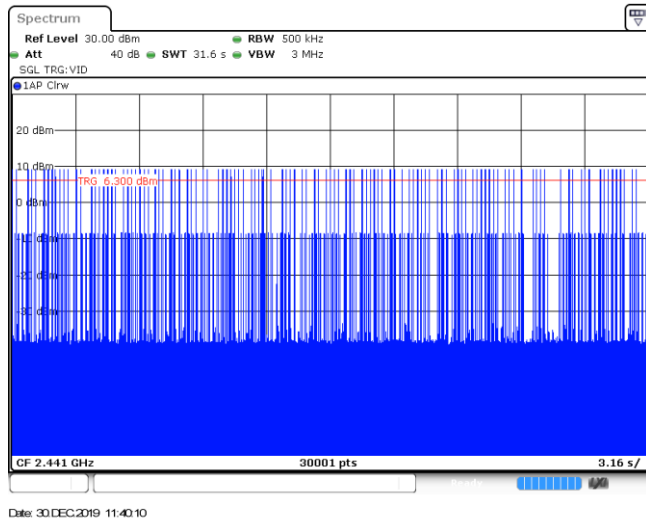


2DH5  
Burst number

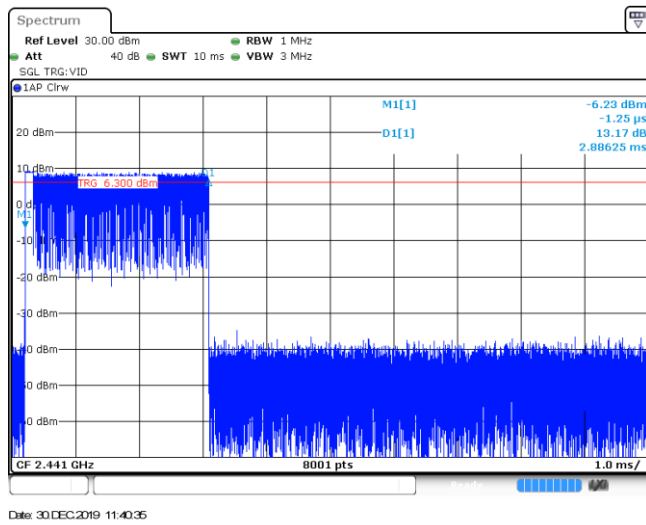


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Date: 30 DEC 2019 11:38:36</p>
3DH1 Burst number	<p>Date: 30 DEC 2019 11:39:10</p>
3DH3 Burst width	<p>Date: 30 DEC 2019 11:39:36</p>

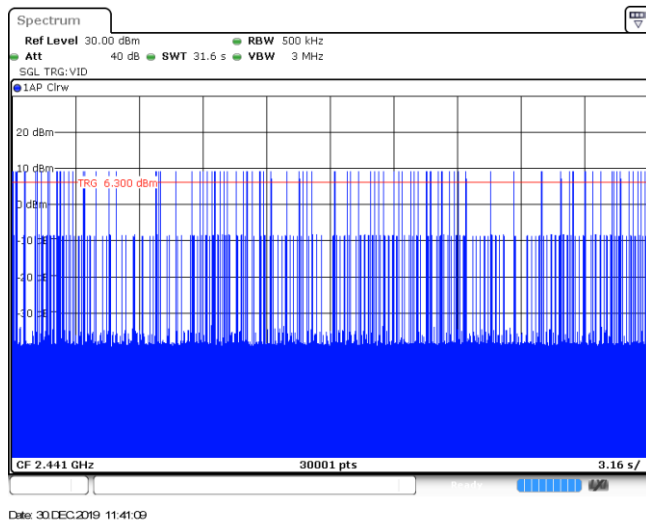
3DH3  
Burst number



3DH5  
Burst width

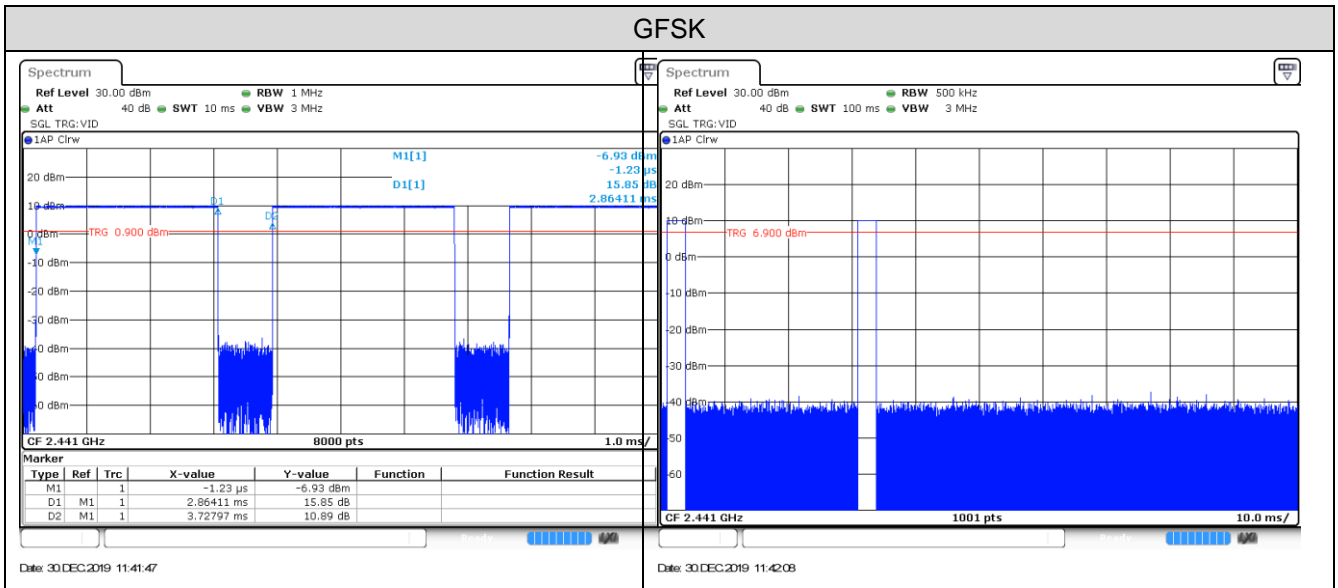


3DH5  
Burst number



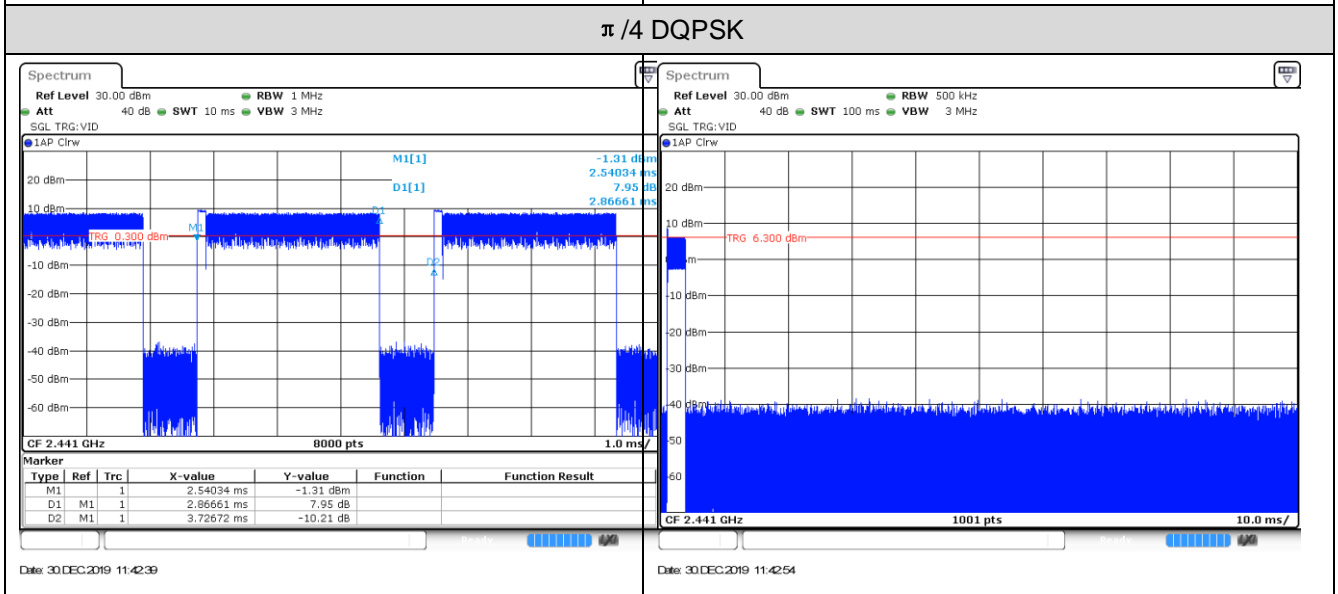
**Appendix F: Duty Cycle Correction Factor (DCCF)**

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	2.87	100	1	-30.84
8DPSK	2441	2.87	100	2	-24.82



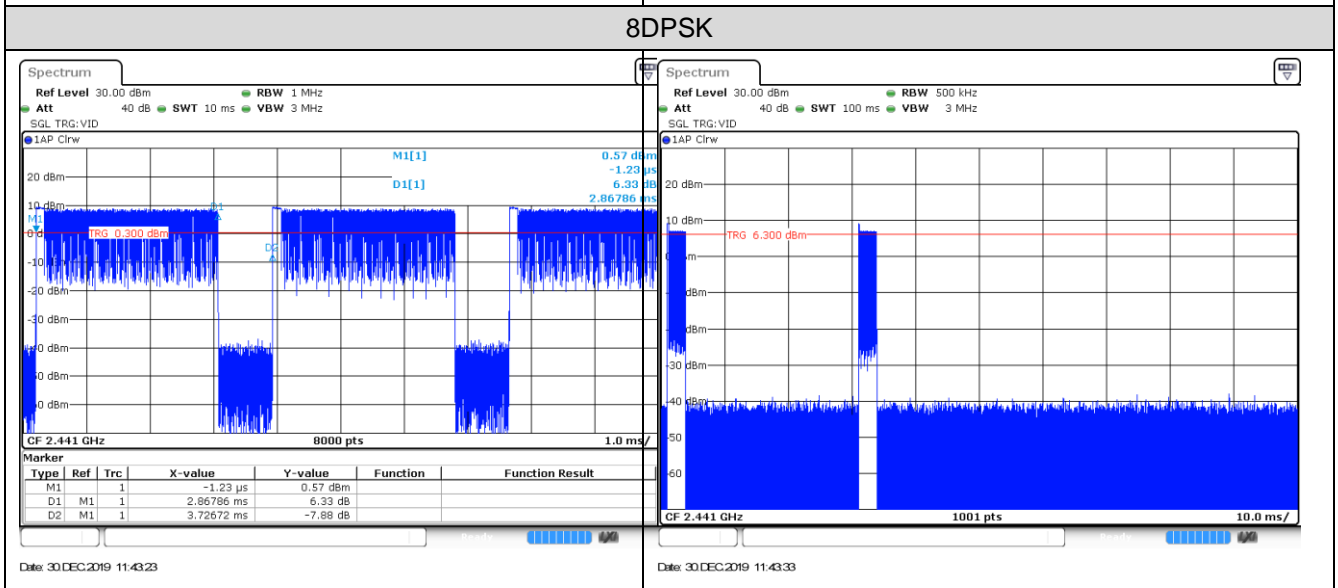
T<sub>on</sub> time for single burst

Burst Quantity



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

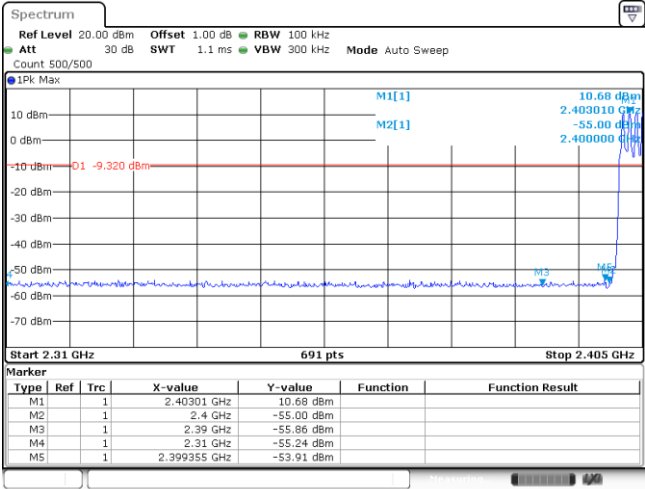
Burst Quantity



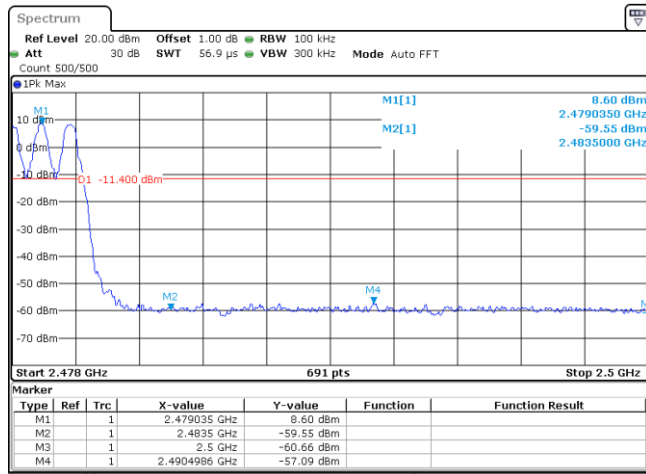
T<sub>on</sub> time for single burst

Burst Quantity

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

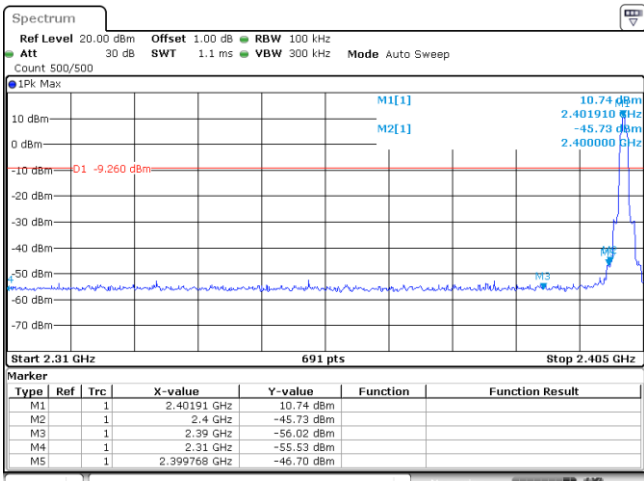
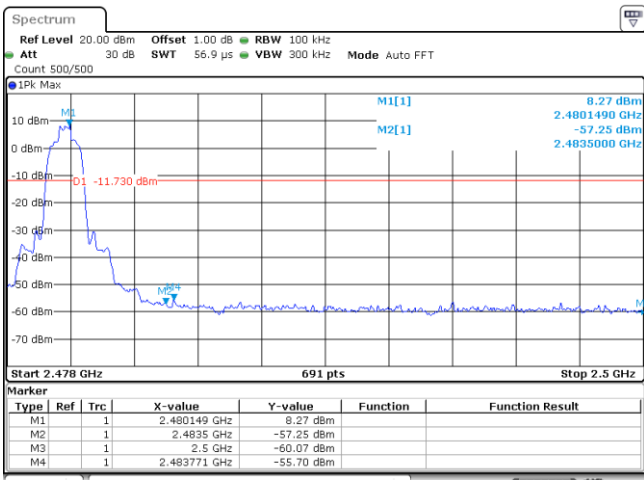
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <p>Marker Table:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40204 GHz</td> <td>11.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-51.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399355 GHz</td> <td>-52.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 DEC 2019 11:12:05</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40204 GHz	11.03 dBm			M2	1	1	2.4 GHz	-51.93 dBm			M3	1	1	2.39 GHz	-55.23 dBm			M4	1	1	2.31 GHz	-55.25 dBm			M5	1	1	2.399355 GHz	-52.99 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1	1	2.40204 GHz	11.03 dBm																																									
M2	1	1	2.4 GHz	-51.93 dBm																																									
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<p>CH00 Hopping mode</p>	 <p>Marker Table:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40301 GHz</td> <td>10.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-55.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399355 GHz</td> <td>-53.91 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 DEC 2019 11:27:04</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40301 GHz	10.68 dBm			M2	1	1	2.4 GHz	-55.00 dBm			M3	1	1	2.39 GHz	-55.86 dBm			M4	1	1	2.31 GHz	-55.24 dBm			M5	1	1	2.399355 GHz	-53.91 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1	1	2.40301 GHz	10.68 dBm																																									
M2	1	1	2.4 GHz	-55.00 dBm																																									
M3	1	1	2.39 GHz	-55.86 dBm																																									
M4	1	1	2.31 GHz	-55.24 dBm																																									
M5	1	1	2.399355 GHz	-53.91 dBm																																									
<p>CH78 No hopping mode</p>	 <p>Marker Table:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.480149 GHz</td> <td>9.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-57.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-59.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.489 GHz</td> <td>-56.30 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 DEC 2019 11:14:59</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.480149 GHz	9.42 dBm			M2	1	1	2.4835 GHz	-57.54 dBm			M3	1	1	2.5 GHz	-59.74 dBm			M4	1	1	2.489 GHz	-56.30 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1	1	2.480149 GHz	9.42 dBm																																									
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CH78  
Hopping mode

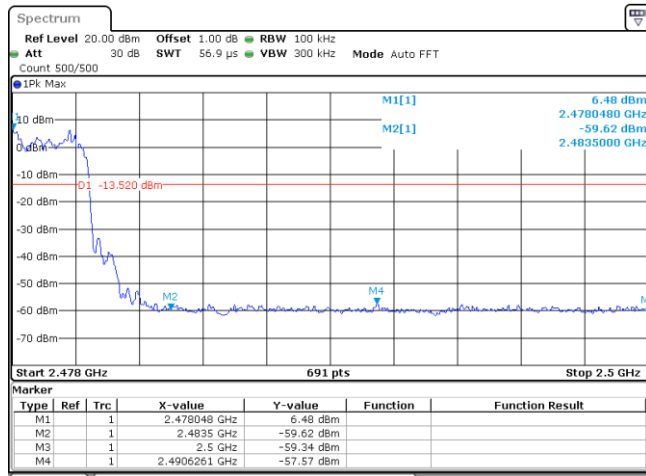


Date: 30 DEC 2019 11:27:18



Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<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>10 dBm M1[1] 10.74 dBm 2.401910 GHz 0 dBm M2[1] -45.73 dBm 2.400000 GHz -10 dBm D1 -9.260 dBm -20 dBm -30 dBm -40 dBm -50 dBm M3 -60 dBm -70 dBm M5</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>2.40191 GHz</td> <td>10.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-45.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-56.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399768 GHz</td> <td>-46.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 DEC 2019 11:16:42</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40191 GHz	10.74 dBm			M2	1	1	2.4 GHz	-45.73 dBm			M3	1	1	2.39 GHz	-56.02 dBm			M4	1	1	2.31 GHz	-55.53 dBm			M5	1	1	2.399768 GHz	-46.70 dBm		
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M5	1	1	2.399906 GHz	-49.88 dBm																																									
<p>CH78 No hopping mode</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 56.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>1Pk Max</p> <p>10 dBm M1 8.27 dBm 2.480149 GHz 0 dBm M2[1] -57.25 dBm 2.4835000 GHz -10 dBm D1 -11.730 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.478 GHz 691 pts Stop 2.5 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>2.480149 GHz</td> <td>8.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-57.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-60.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.483771 GHz</td> <td>-55.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 DEC 2019 11:19:33</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.480149 GHz	8.27 dBm			M2	1	1	2.4835 GHz	-57.25 dBm			M3	1	1	2.5 GHz	-60.07 dBm			M4	1	1	2.483771 GHz	-55.70 dBm									
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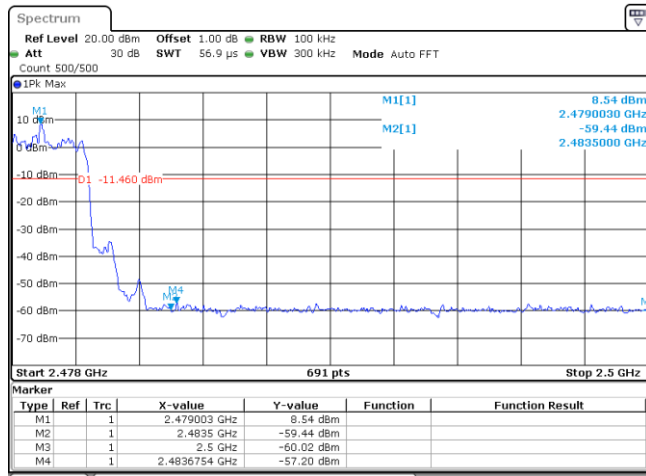
CH78  
Hopping mode



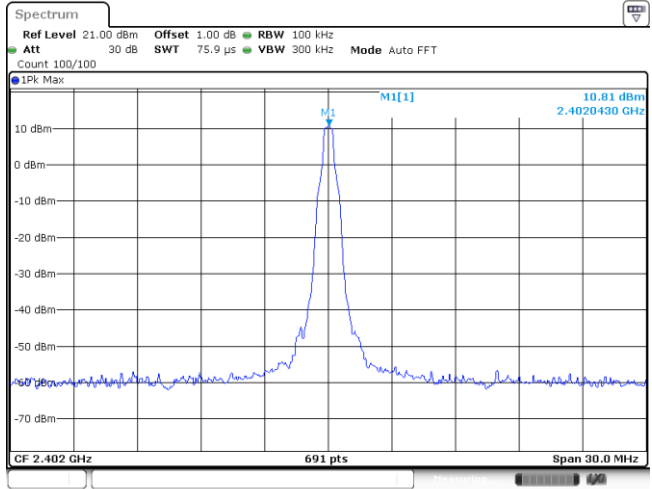
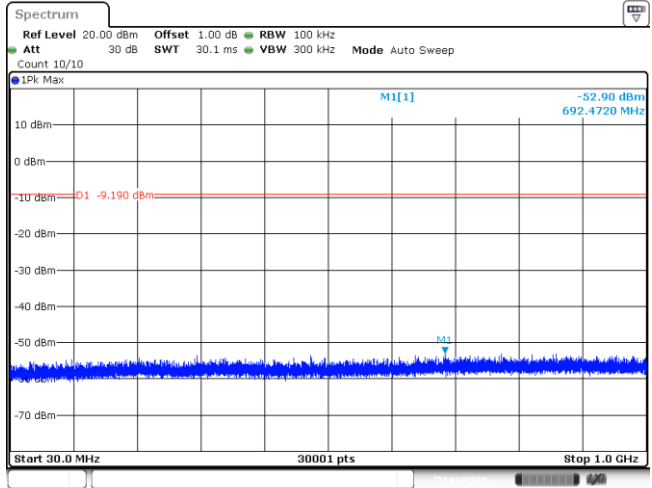
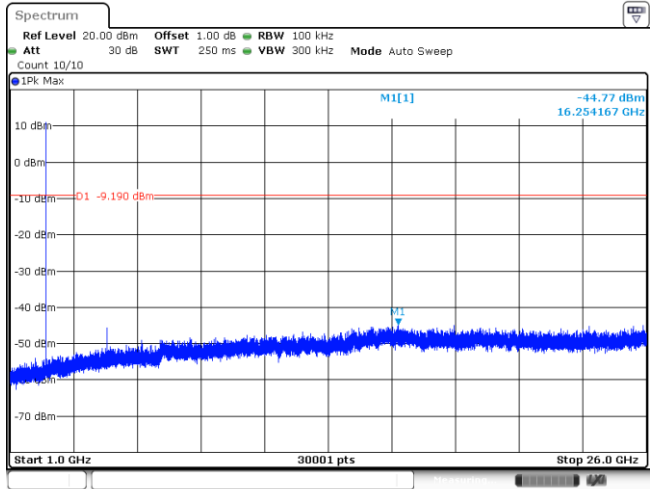
Date: 30 DEC 2019 11:29:33

Test Item:	Band edge	Modulation type:	8DPSK
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<p>CH00 Hopping mode</p>	<p>Date: 30 DEC 2019 11:31:33</p>		
<p>CH78 No hopping mode</p>	<p>Date: 30 DEC 2019 11:24:16</p>		

CH78  
Hoppig mode

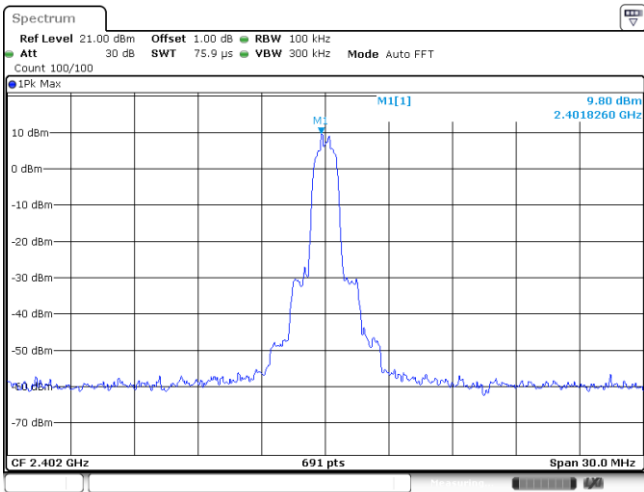
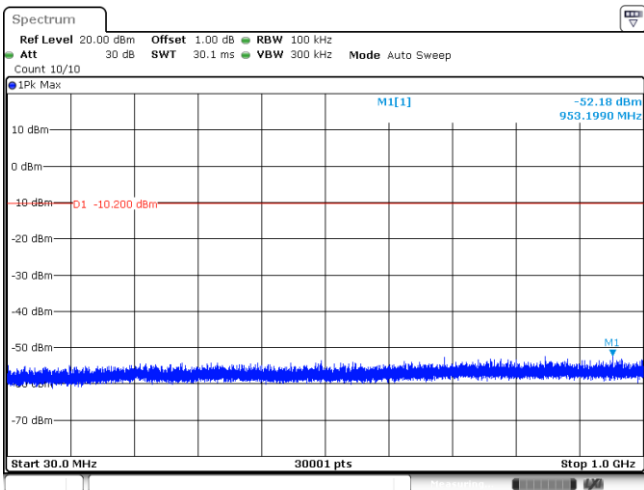
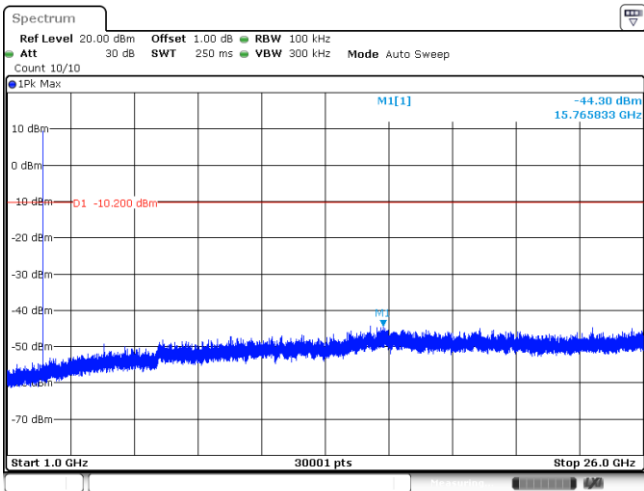


Date: 30 DEC 2019 11:31:47

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

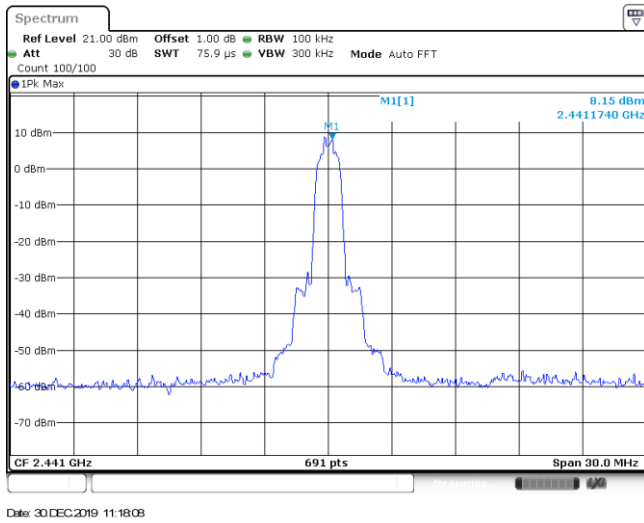
<p>CH39 Reference level</p>	
<p>CH39 30MHz~1000MHz</p>	
<p>CH39 1GHz~26GHz</p>	

<p>CH78 Reference level</p>	<p>Date: 30 DEC 2019 11:15:04</p>
<p>CH78 30MHz~1000MHz</p>	<p>Date: 30 DEC 2019 11:15:20</p>
<p>CH78 1GHz~26GHz</p>	<p>Date: 30 DEC 2019 11:15:36</p>

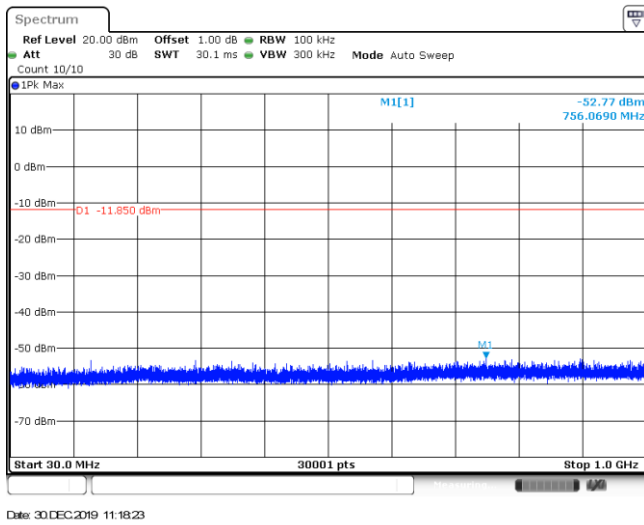
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<p>CH00 Reference level</p>			
<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			



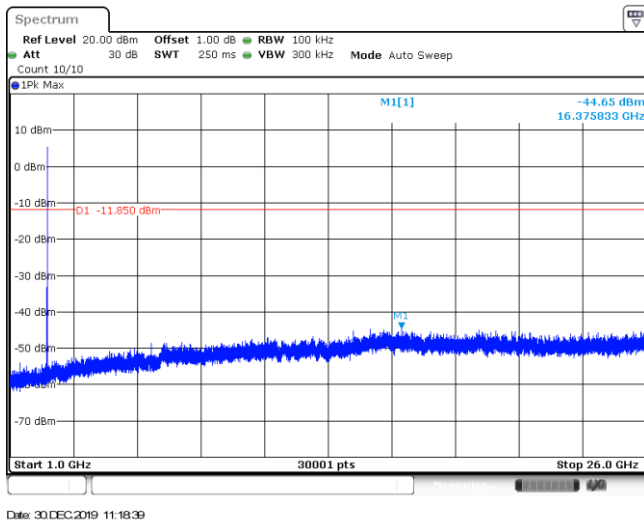
CH39  
Reference level



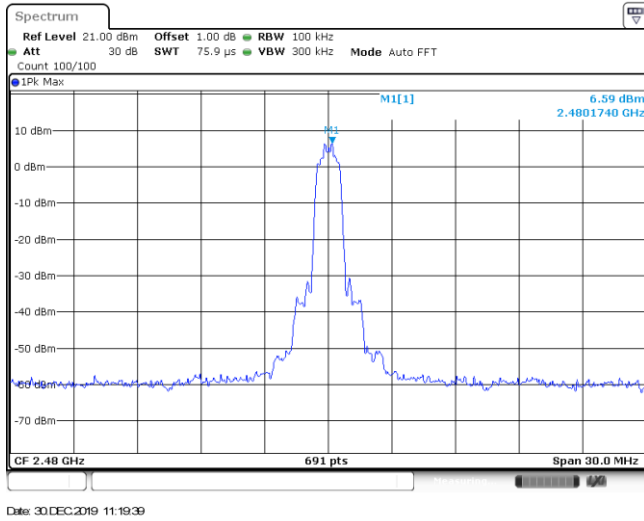
CH39  
30MHz~1000MHz



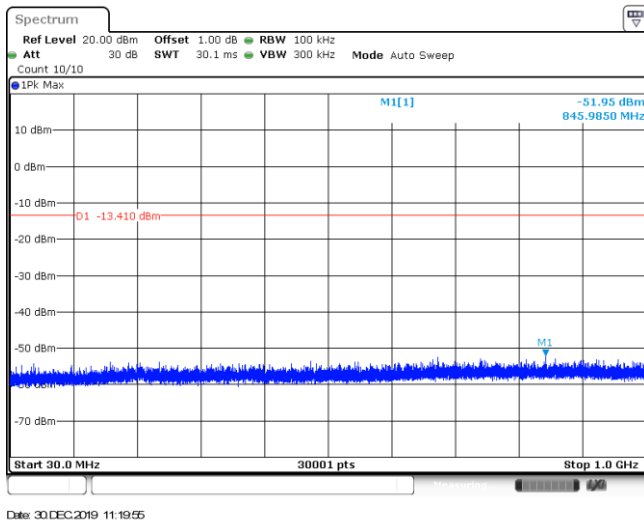
CH39  
1GHz~26GHz



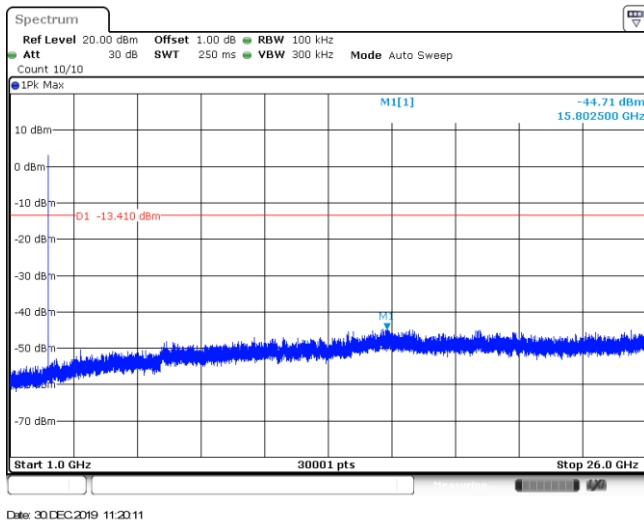
CH78  
Reference level

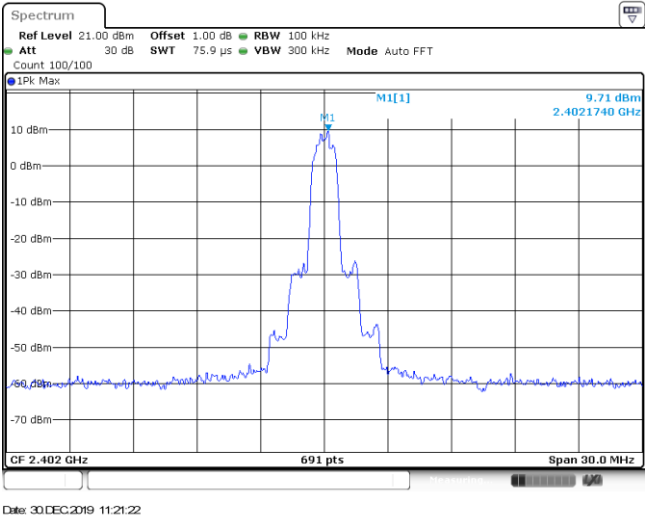
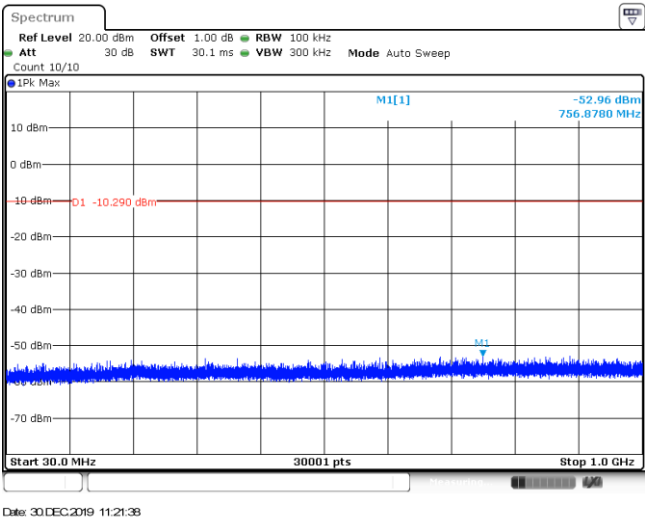
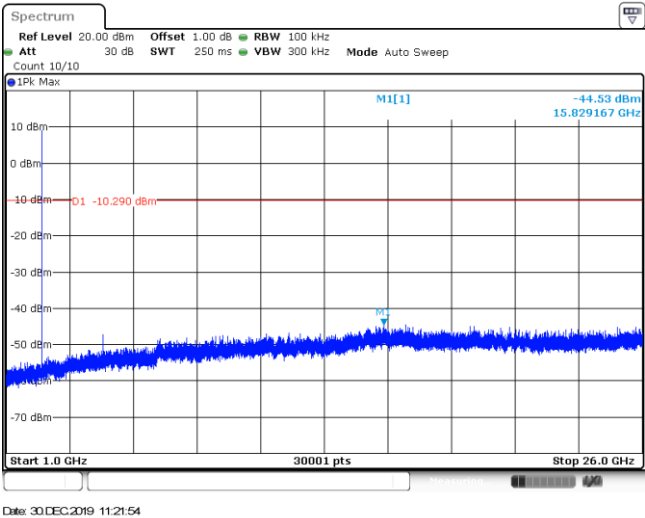


CH78  
30MHz~1000MHz

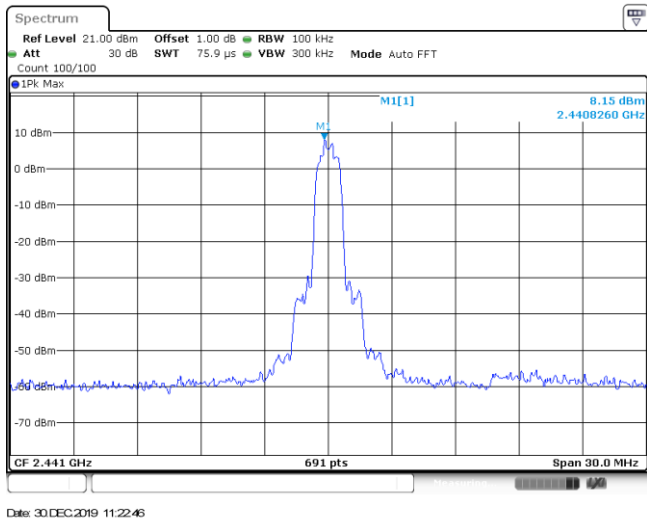


CH78  
1GHz~26GHz

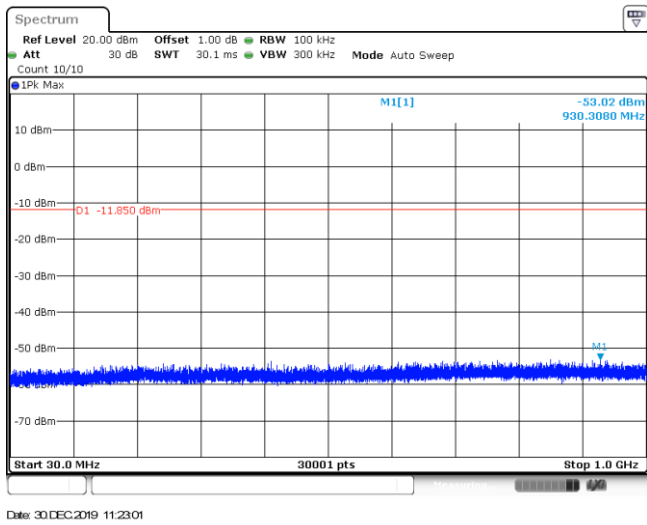


Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>			
<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

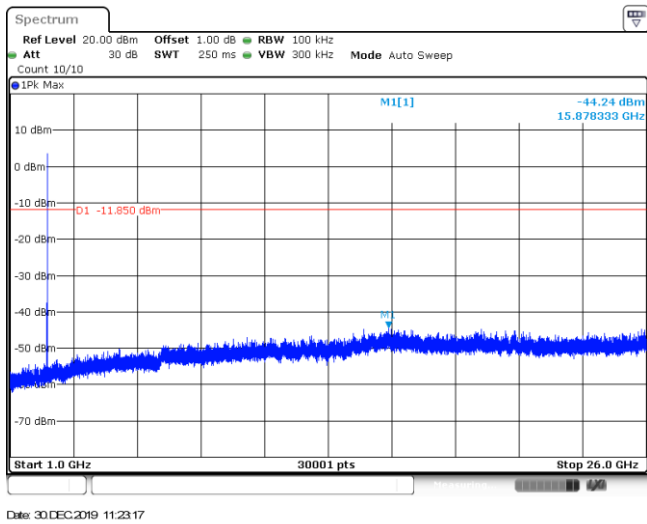
CH39  
Reference level



CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz



<p>CH78 Reference level</p>	<p>Date: 30 DEC 2019 11:24:22</p>
<p>CH78 30MHz~1000MHz</p>	<p>Date: 30 DEC 2019 11:24:38</p>
<p>CH78 1GHz~26GHz</p>	<p>Date: 30 DEC 2019 11:24:54</p>

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