

# APPENDIX REPORT

Project No.	SHT2005099309EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20050993037	Model No.	TE590P
Start test date	2020/7/10	Finish date	2020/7/16
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	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

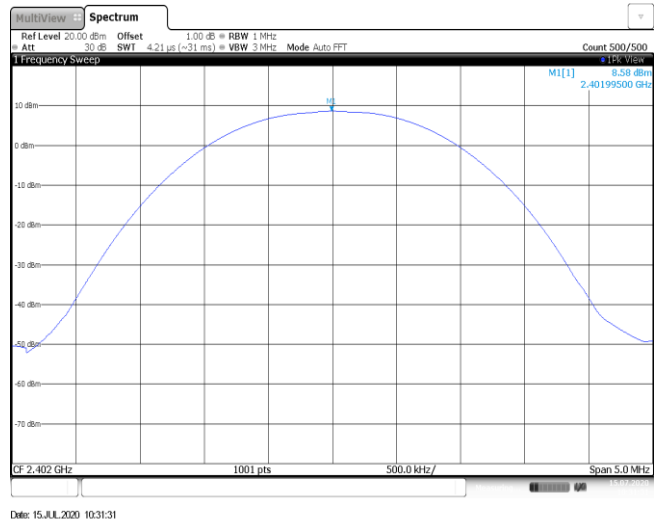
**Appendix A: Peak Output Power**

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	8.58	6.87	≤ 30.00	Pass
	39	5.64	4.81		
	78	7.88	6.90		
π/4DQPSK	00	8.03	7.42	≤ 21.00	Pass
	39	5.85	4.97		
	78	7.60	6.40		
8DPSK	00	8.00	7.12	≤ 21.00	Pass
	39	5.84	4.68		
	78	7.59	6.94		

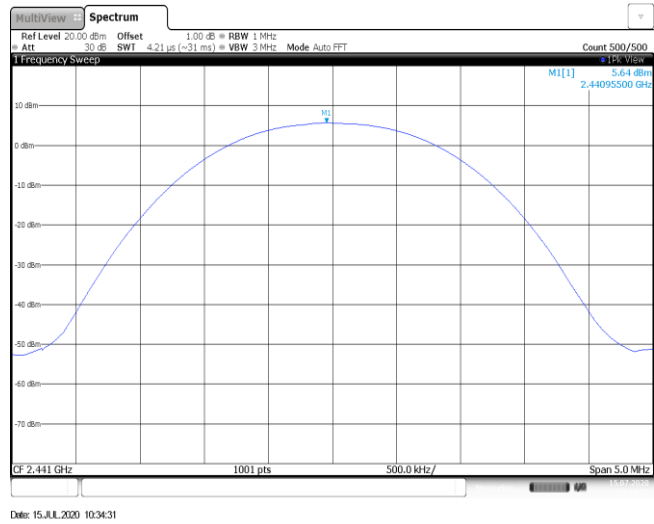
Modulation Type:

GFSK

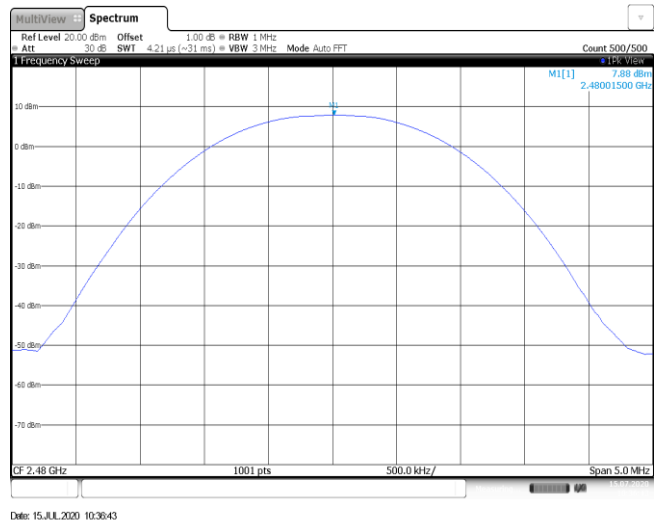
CH00



CH39



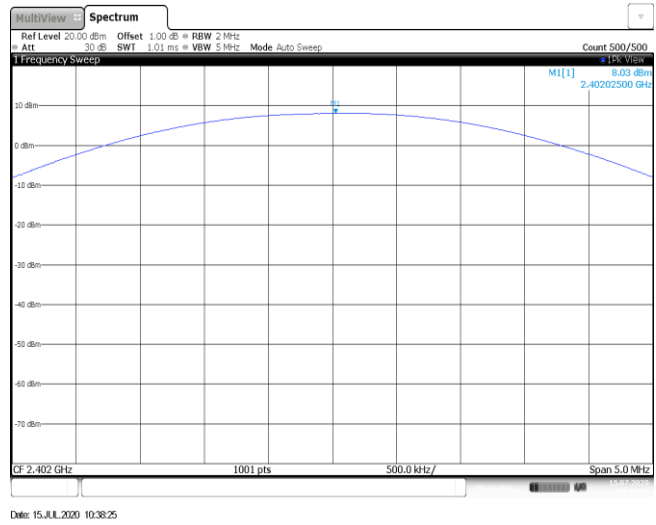
CH78



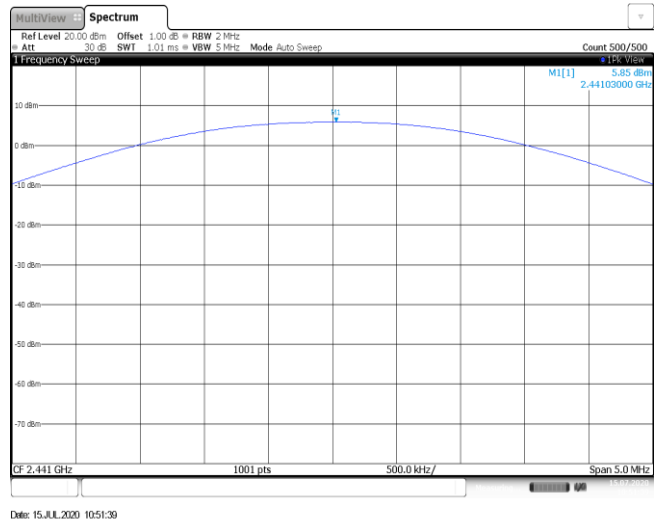
Modulation Type:

$\pi/4$ DQPSK

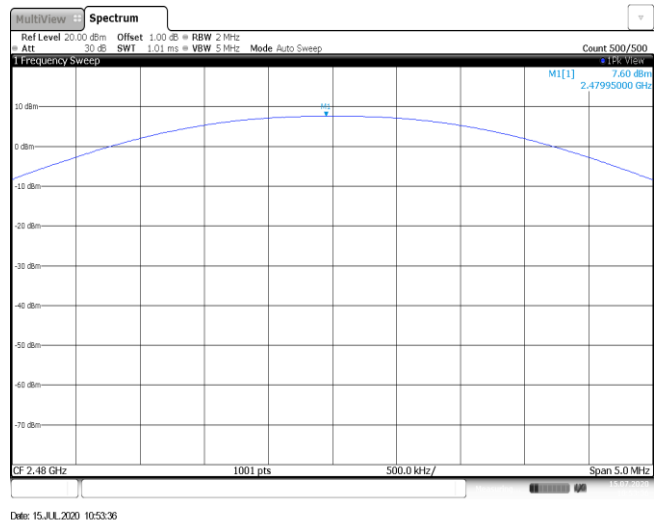
CH00



CH39



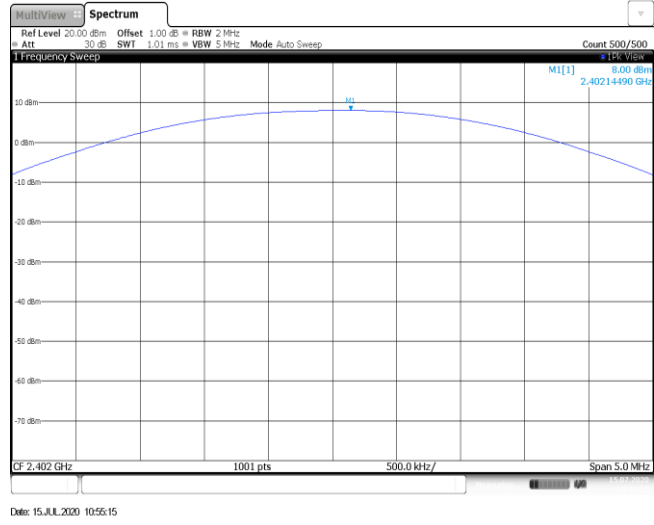
CH78



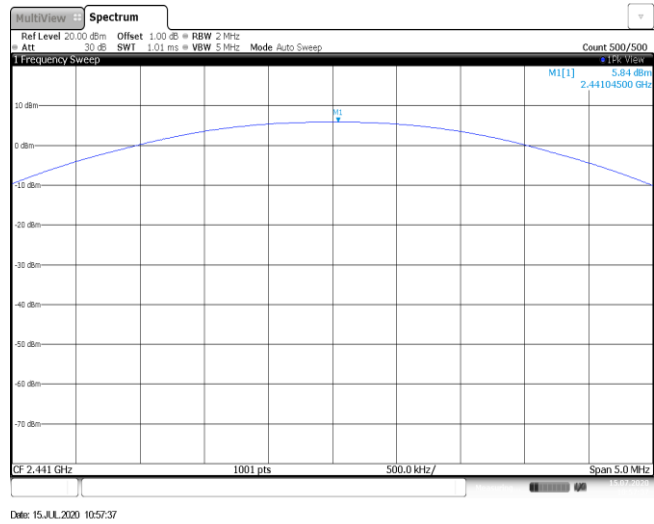
Modulation Type:

8DPSK

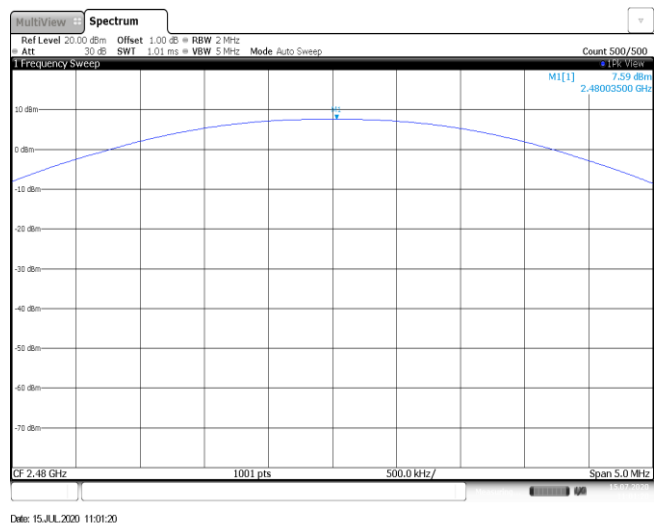
CH00



CH39



CH78

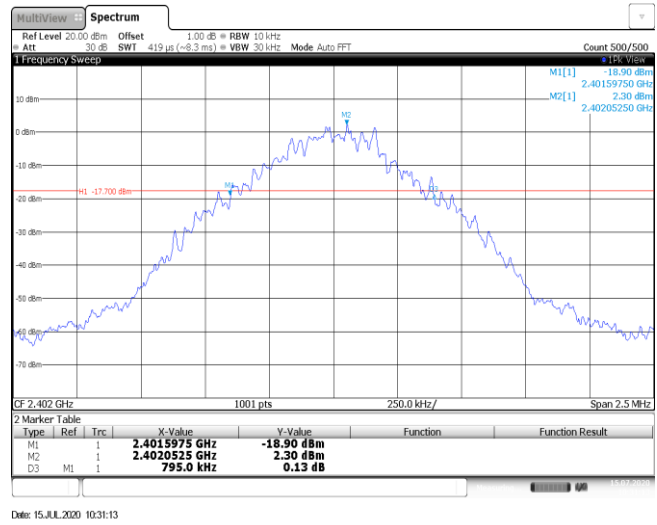


**Appendix B : 20 dB Bandwidth**

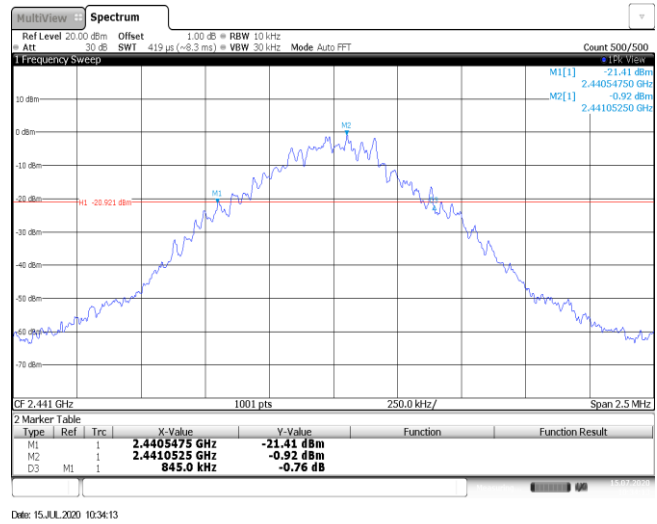
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	795.00	-	Pass
	39	845.00		
	78	842.50		
$\pi/4$ DQPSK	00	1285.00	-	Pass
	39	1285.00		
	78	1282.50		
8DPSK	00	1287.50	-	Pass
	39	1285.00		
	78	1280.00		

**Modulation Type: GFSK**

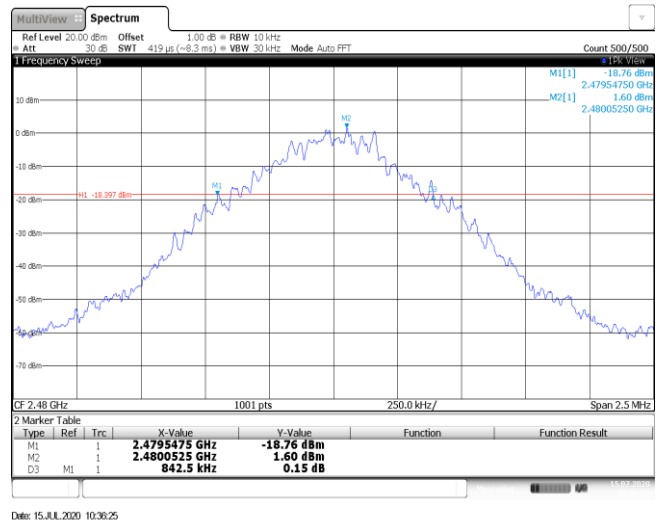
CH00



CH39



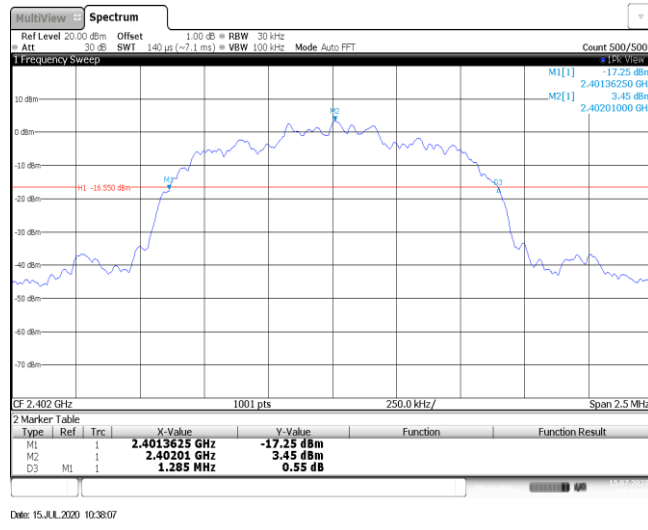
CH78



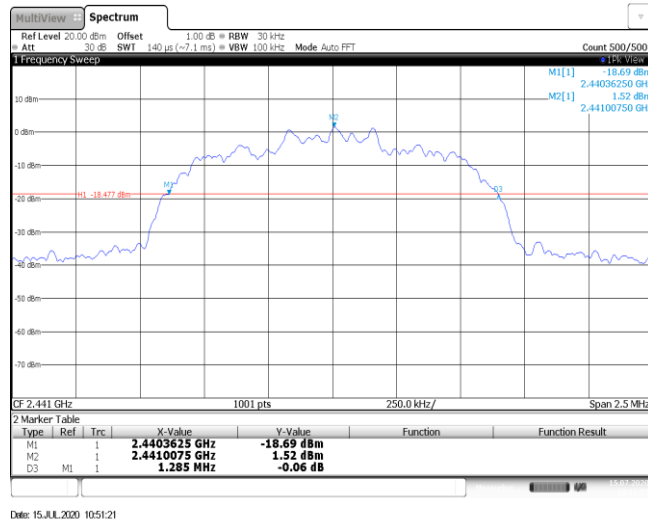
Modulation Type:

$\pi/4$ DQPSK

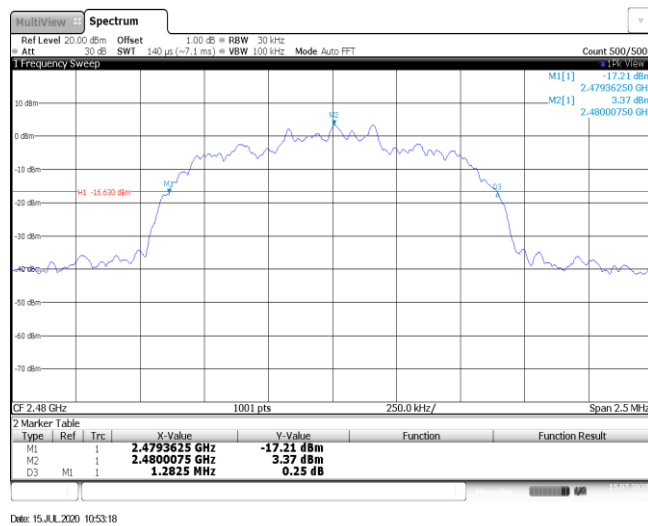
CH00



CH39



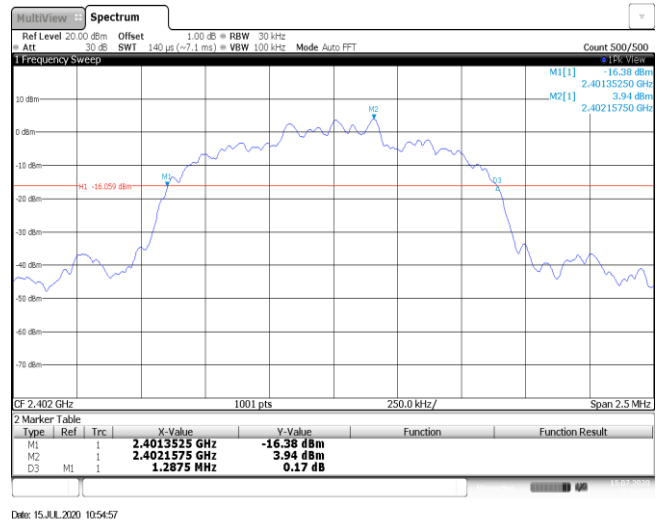
CH78



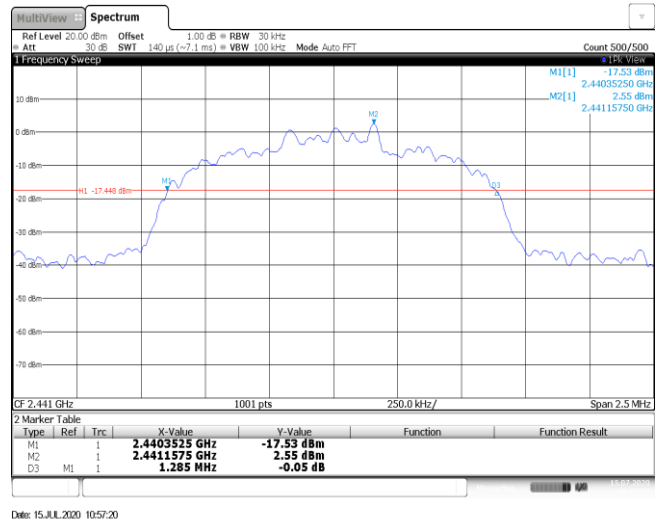


**Modulation Type: 8DPSK**

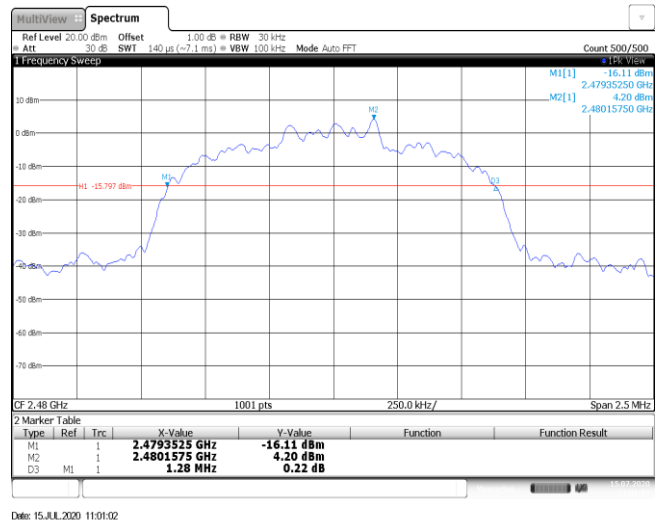
CH00



CH39



CH78

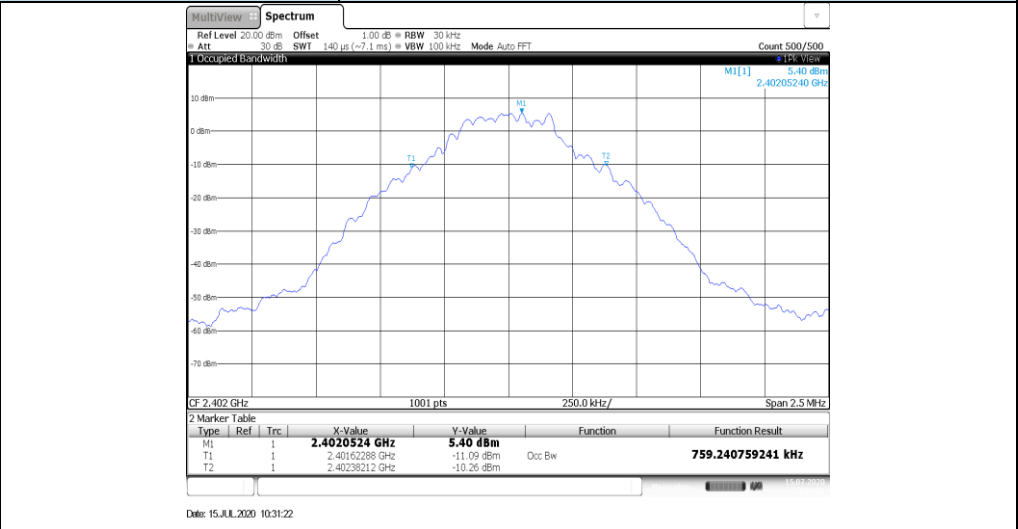


**Appendix C: 99% Occupied Bandwidth**

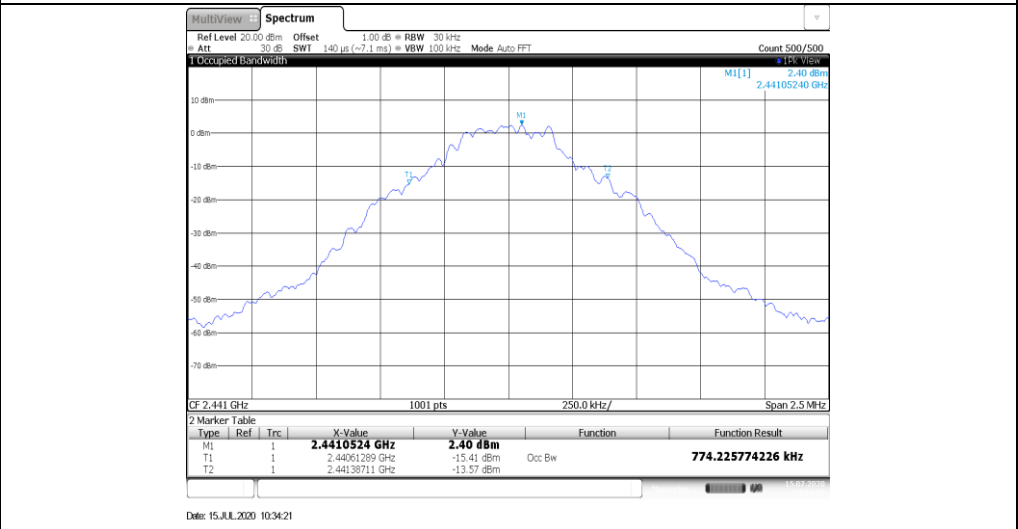
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.76	-	Pass
	39	0.77		
	78	0.77		
$\pi/4$ DQPSK	00	1.14	-	Pass
	39	1.16		
	78	1.15		
8DPSK	00	1.15	-	Pass
	39	1.17		
	78	1.16		

**Modulation Type: GFSK**

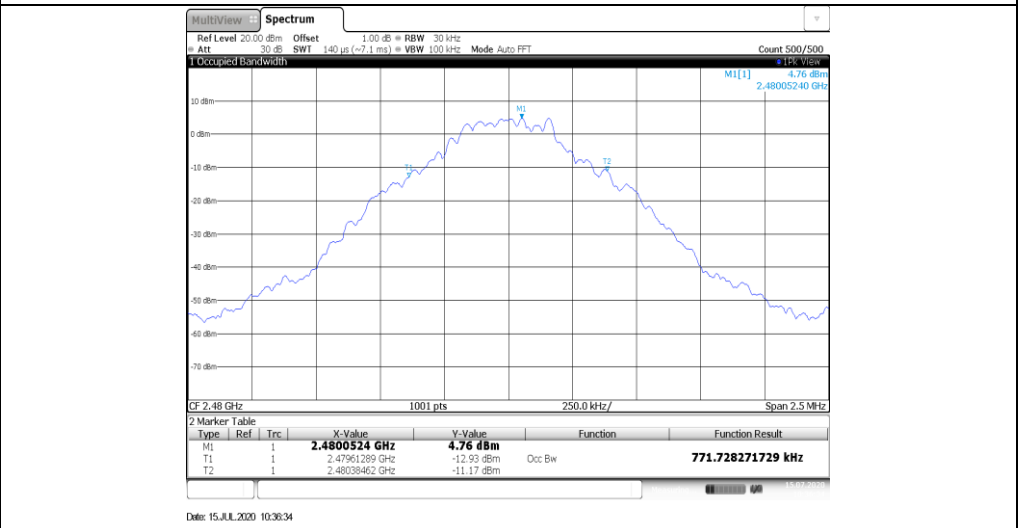
CH00



CH39

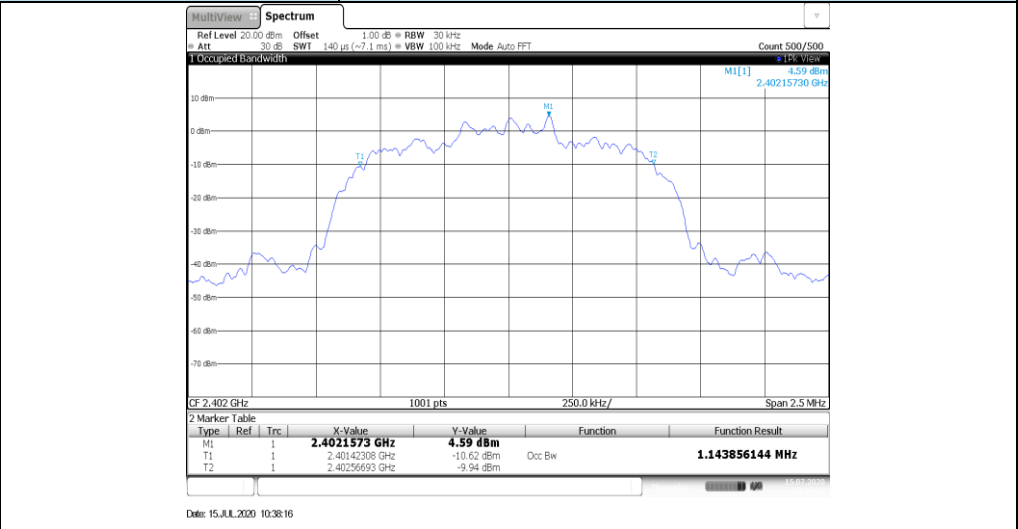


CH78

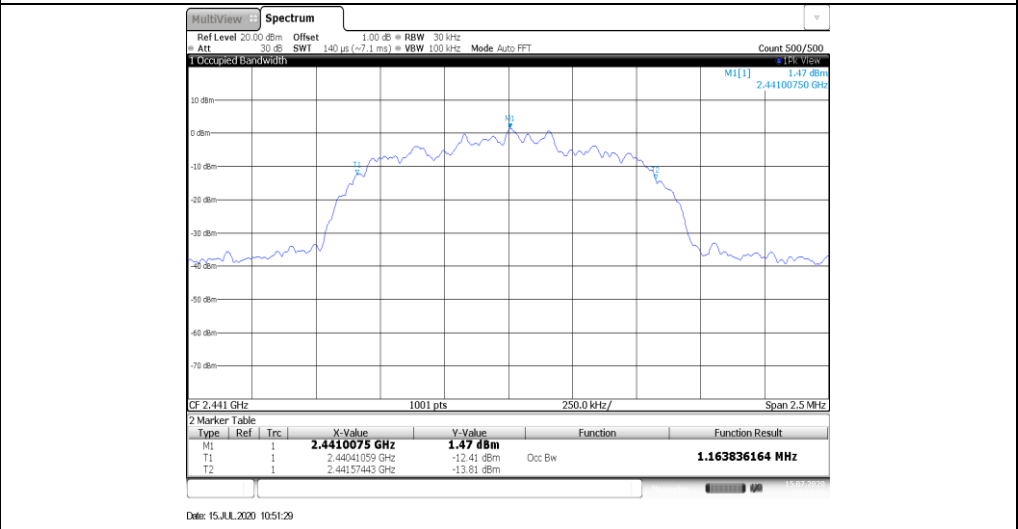


**Modulation Type:  $\pi/4$ DQPSK**

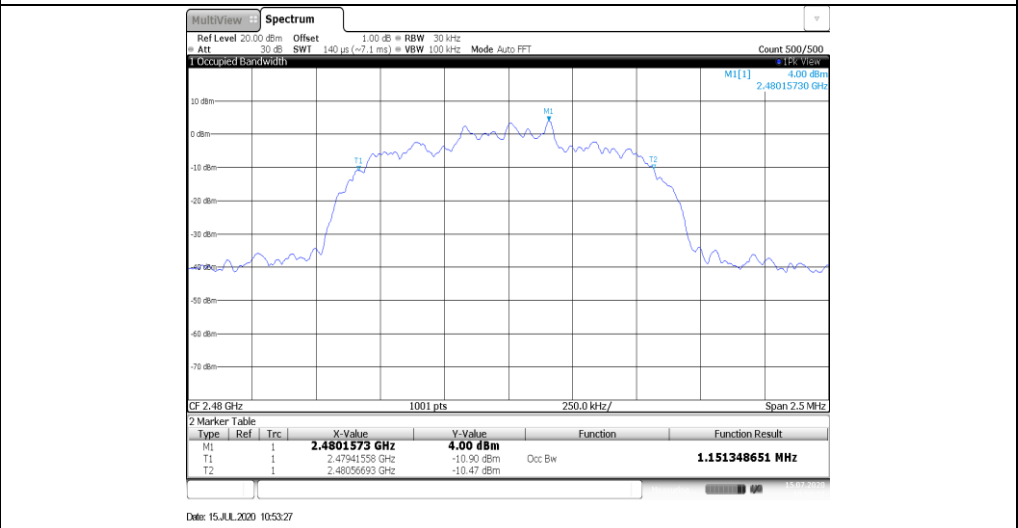
CH00



CH39

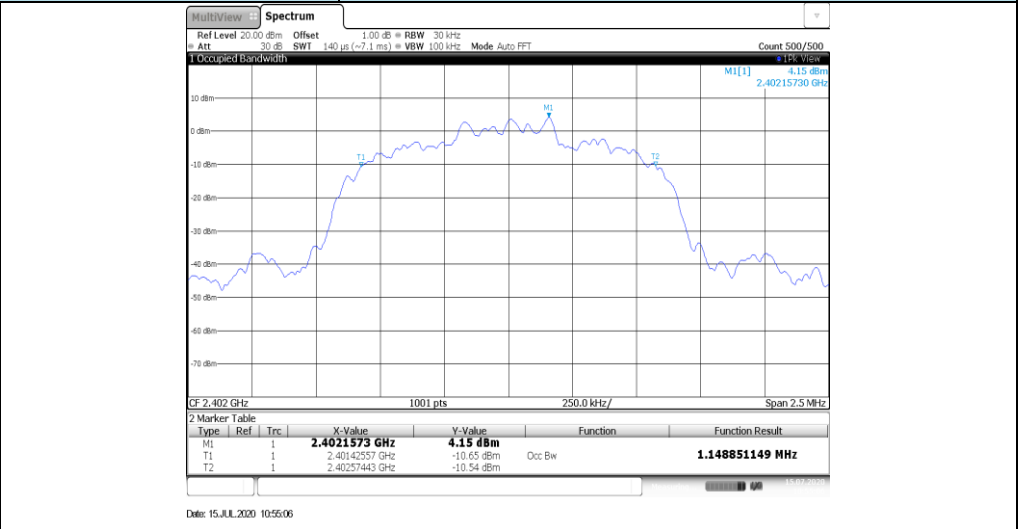


CH78

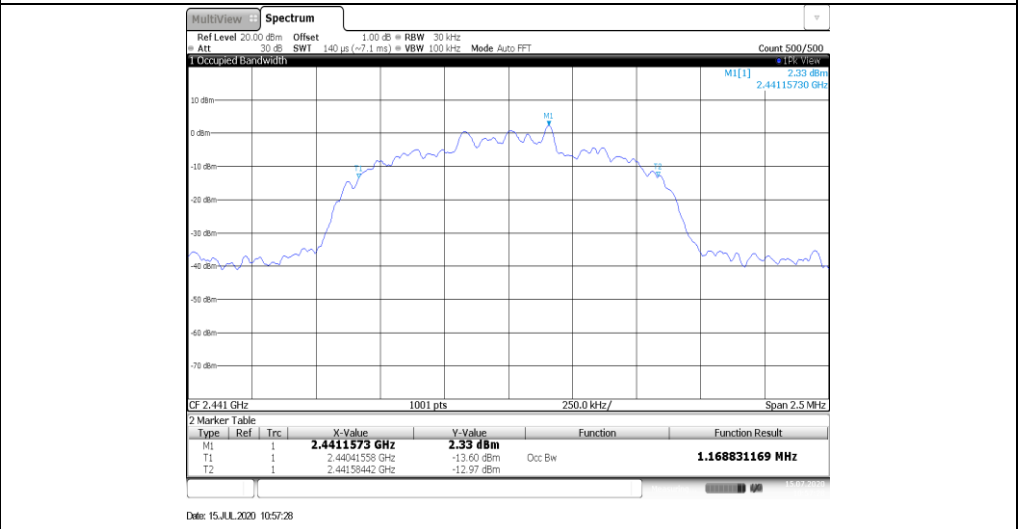


**Modulation Type: 8DPSK**

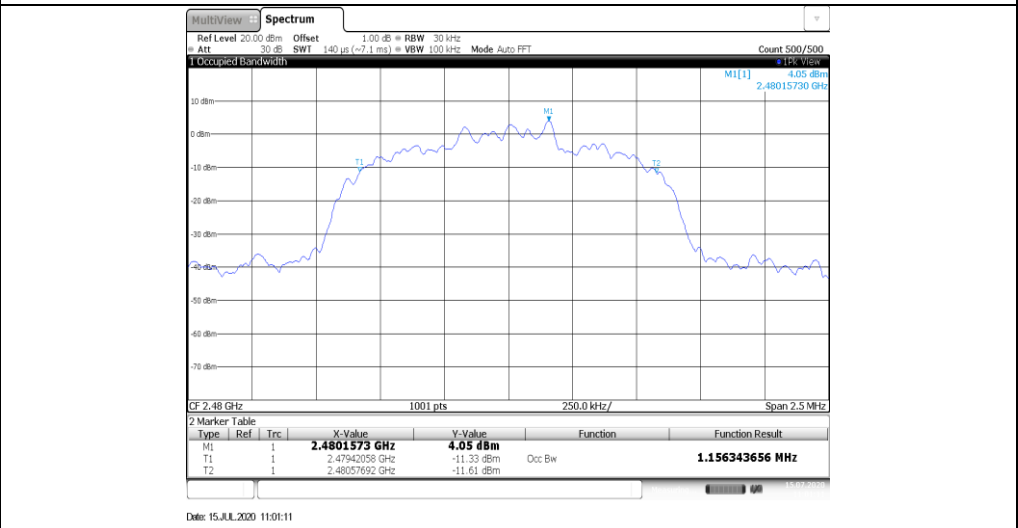
CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	0.90	≥845	Pass
$\pi/4$ DQPSK	39	1.00	≥857	Pass
8DPSK	39	1.00	≥858	Pass

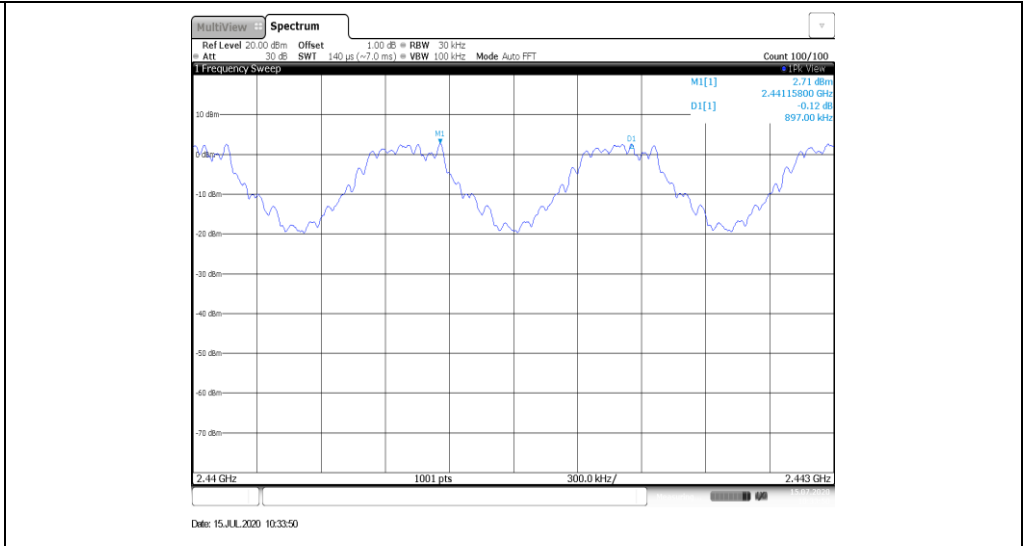
**Note:**

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

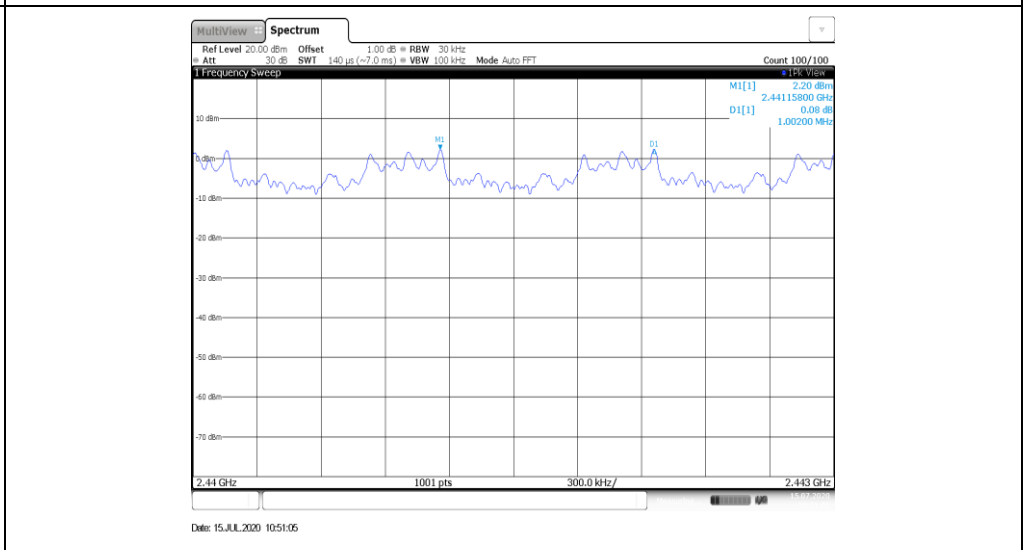
$\pi/4$ DQPSK limit =  $2/3$  \* The maximum 20 dB Bandwidth for  $\pi/4$ DQPSK modulation on the appendix B.

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

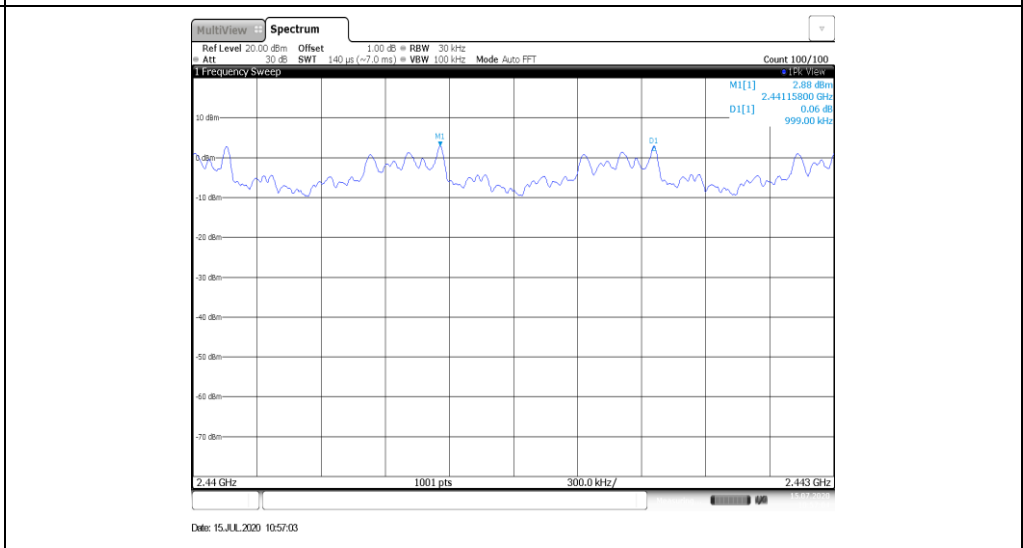
GFSK



$\pi/4$ DQPSK



8DPSK

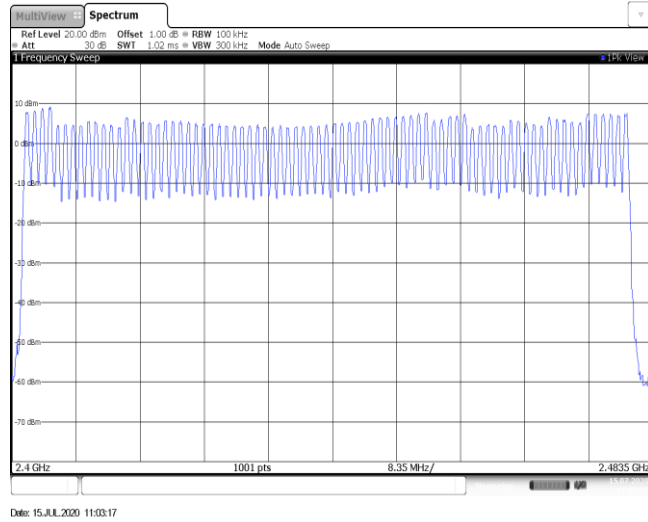


**Appendix E: Hopping Channel Number**

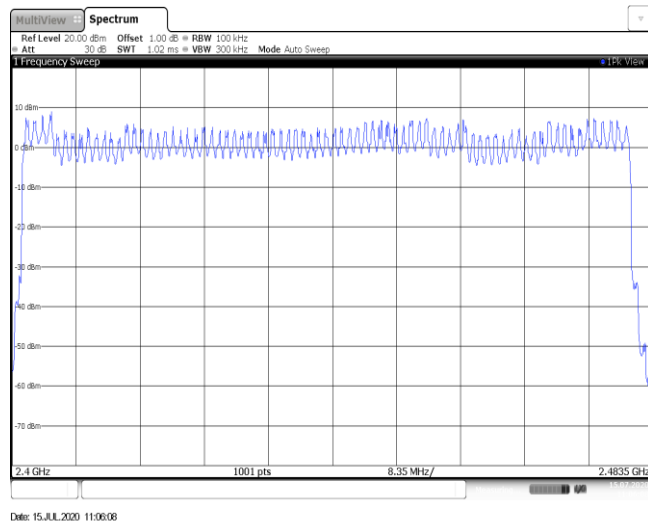
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



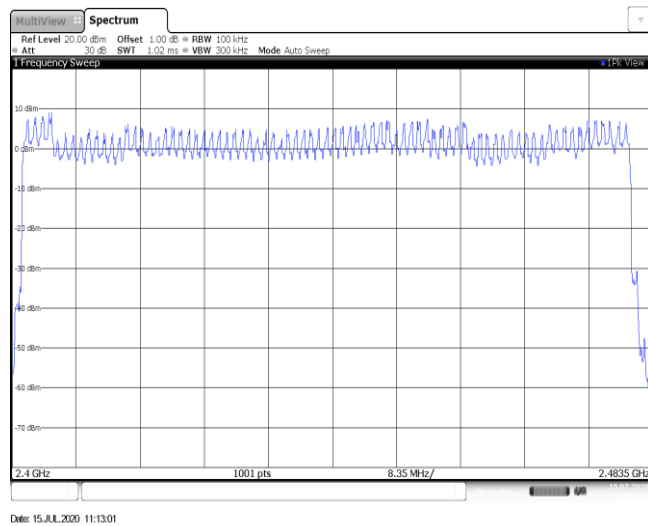
GFSK



$\pi/4$ DQPSK



8DPSK

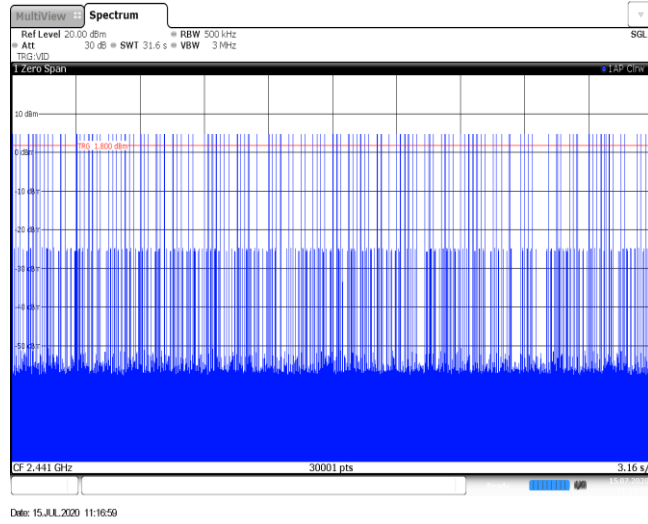


**Appendix F: Dwell Time**

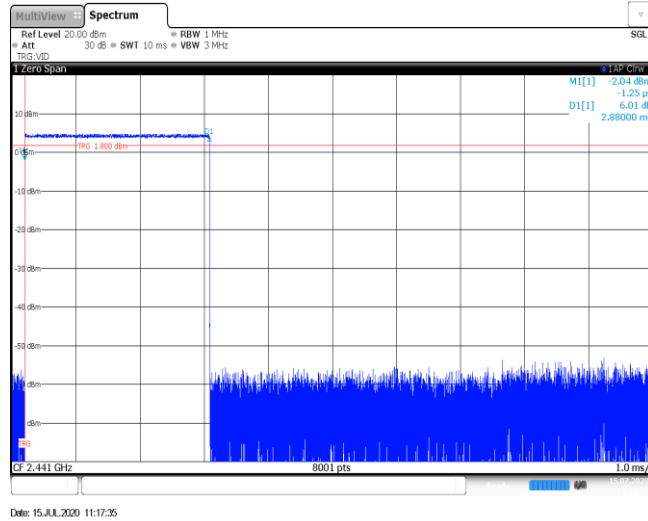
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	313.00	0.12	≤ 0.40	Pass
	DH3	1.63	158.00	0.26		
	DH5	2.88	103.00	0.30		
π/4DQPSK	2DH1	0.38	315.00	0.12	≤ 0.40	Pass
	2DH3	1.64	158.00	0.26		
	2DH5	2.88	102.00	0.29		
8DPSK	3DH1	0.38	313.00	0.12	≤ 0.40	Pass
	3DH3	1.64	158.00	0.26		
	3DH5	2.89	105.00	0.30		

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

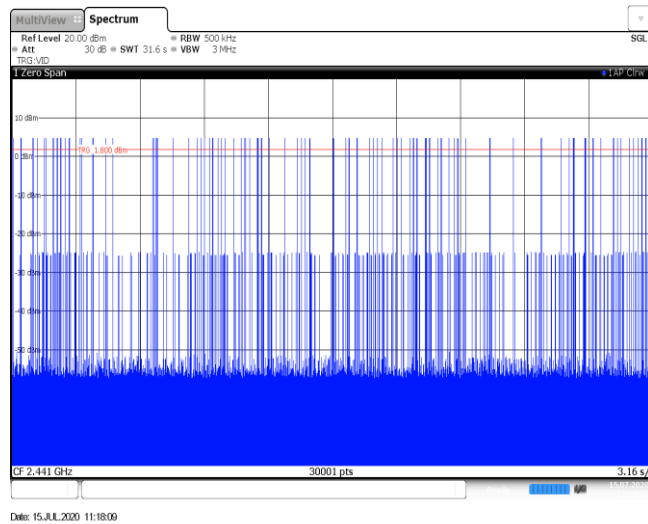
DH3  
Burst number



DH5  
Burst width



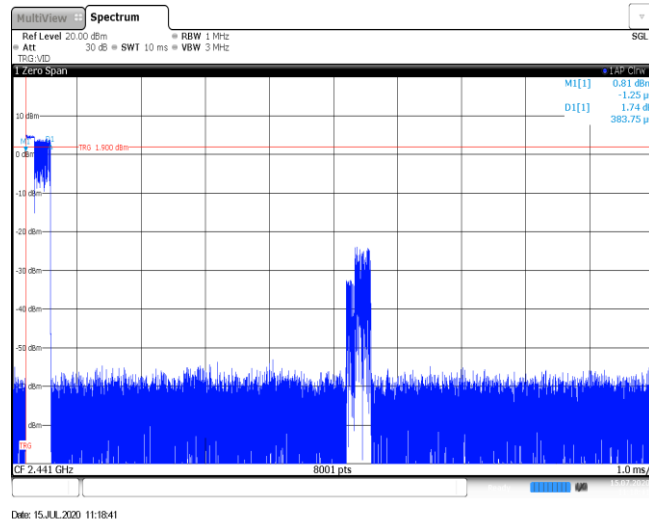
DH5  
Burst number



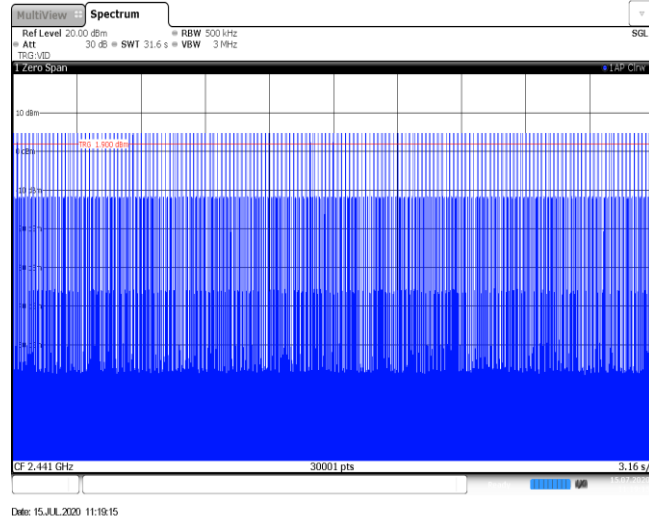
**Modulation Type:**

**$\pi/4$ DQPSK**

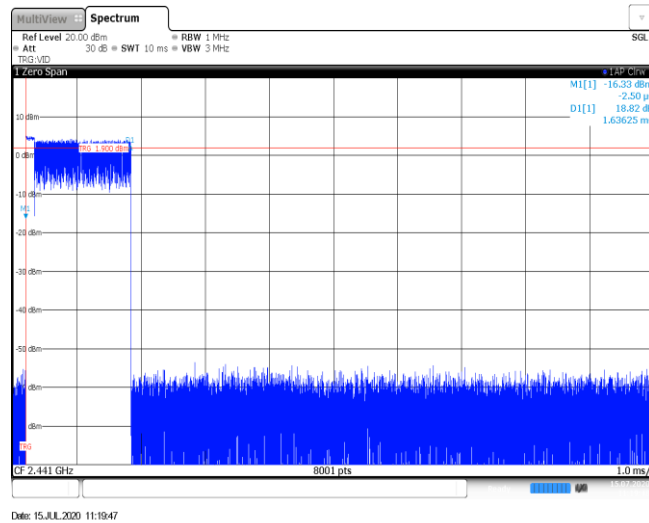
2DH1  
Burst width



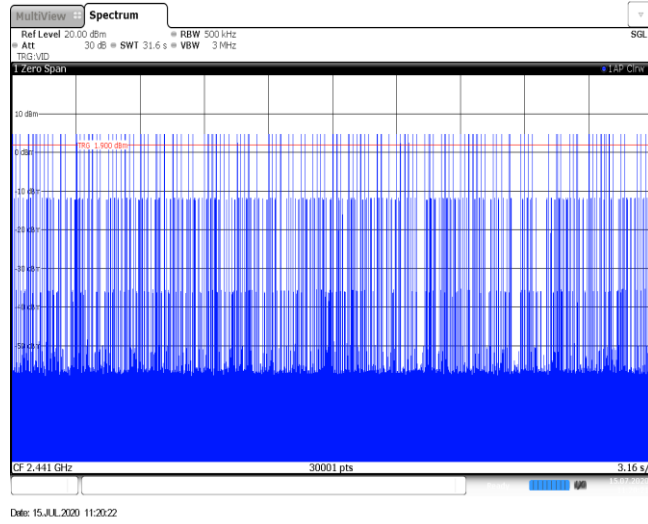
2DH1  
Burst number



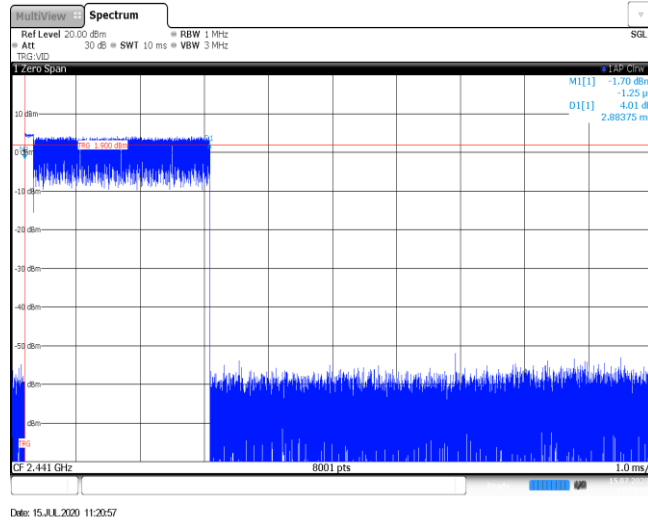
2DH3  
Burst width



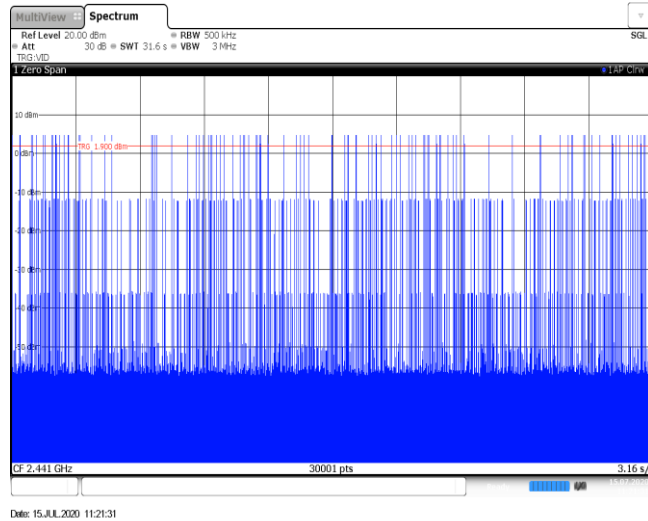
2DH3  
Burst number



2DH5  
Burst width

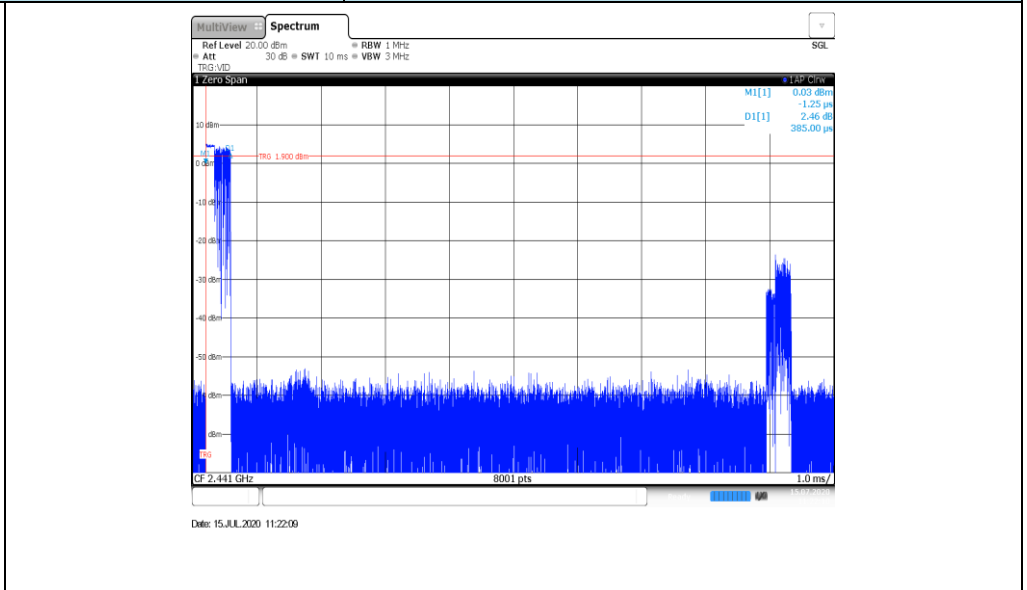


2DH5  
Burst number

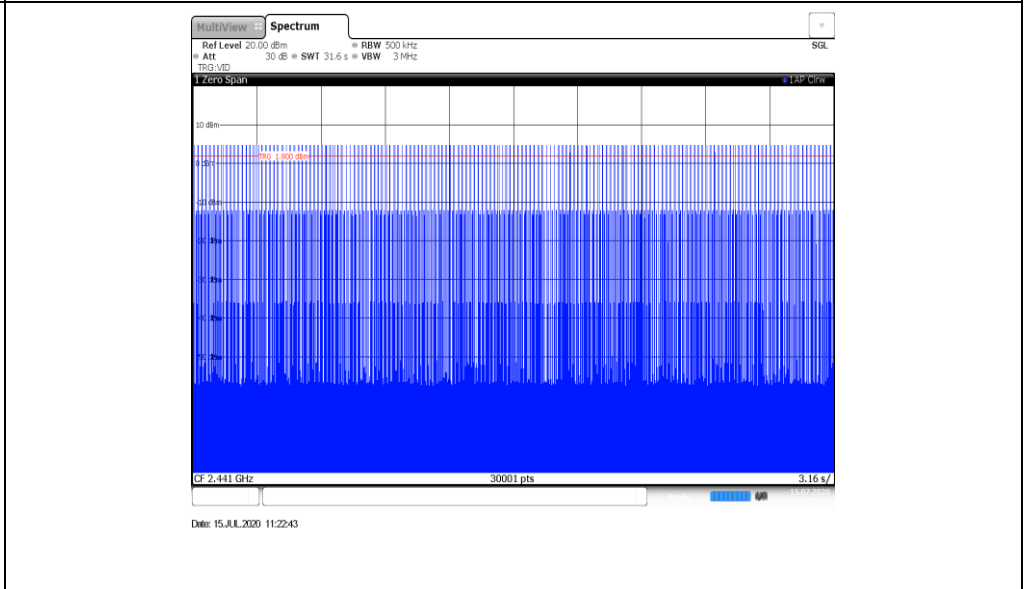


**Modulation Type: 8DPSK**

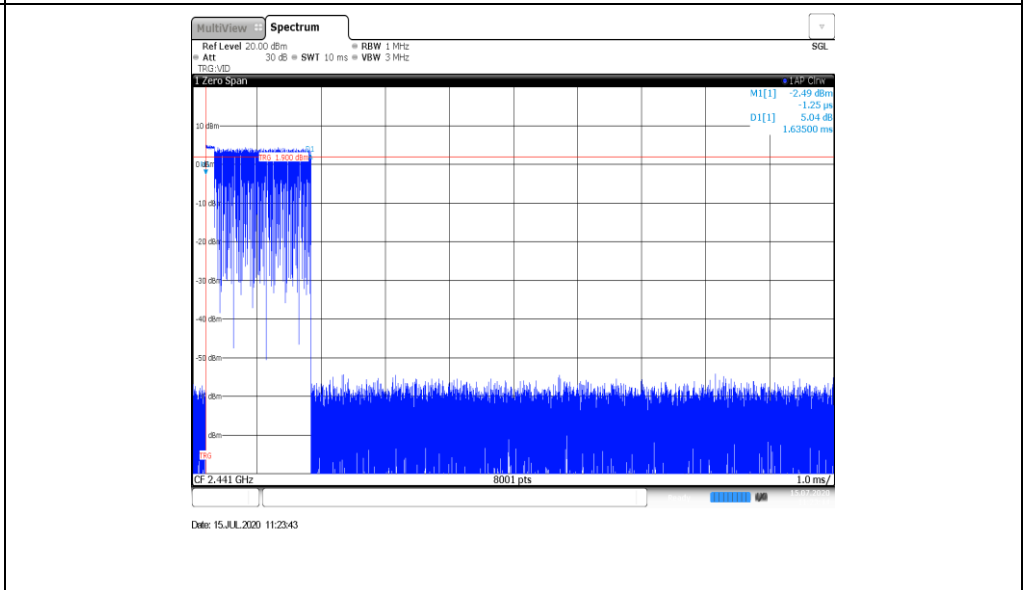
3DH1  
Burst width



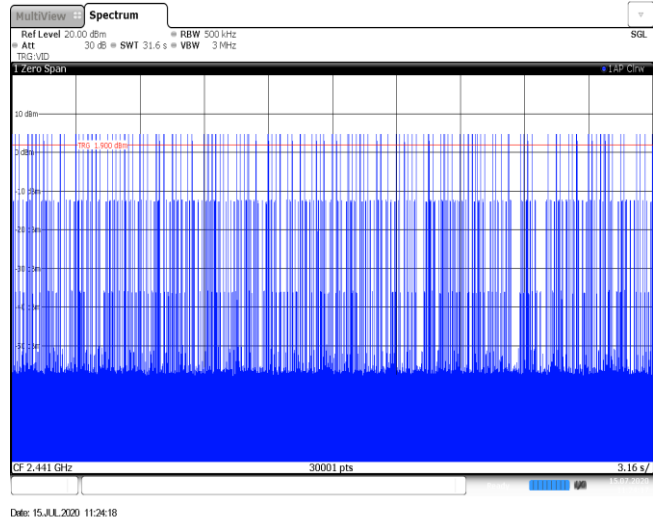
3DH1  
Burst number



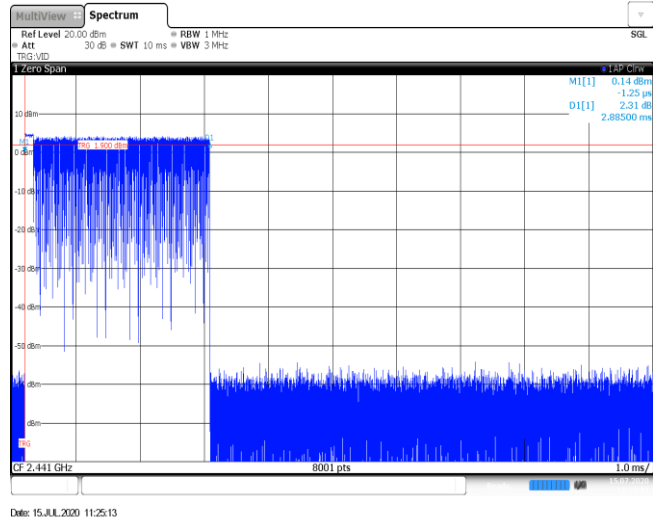
3DH3  
Burst width



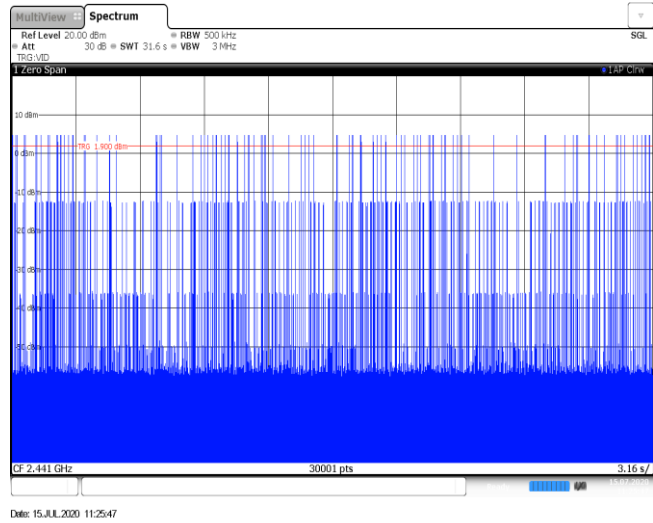
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

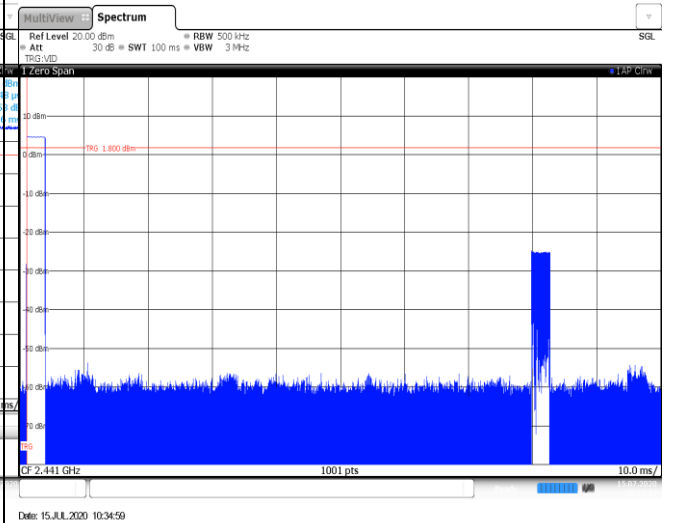
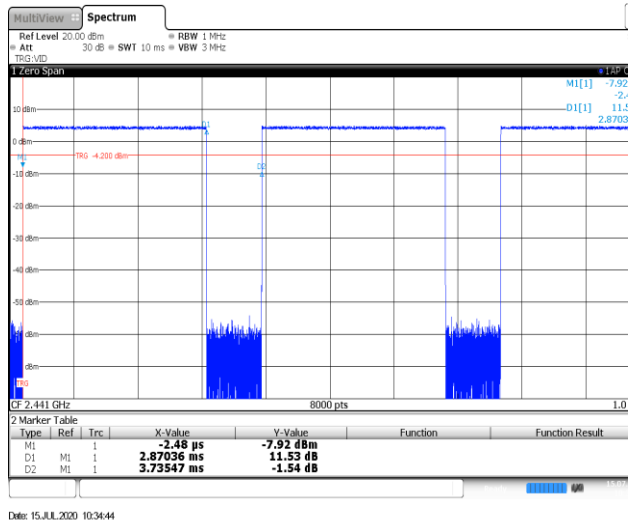




## Appendix G: Duty Cycle Correction Factor (DCCF)

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	2.87	100	1.00	-30.84
$\pi/4$ DQPSK	2441	2.87	100	1.00	-30.84
8DPSK	2441	2.88	100	2.00	-24.79

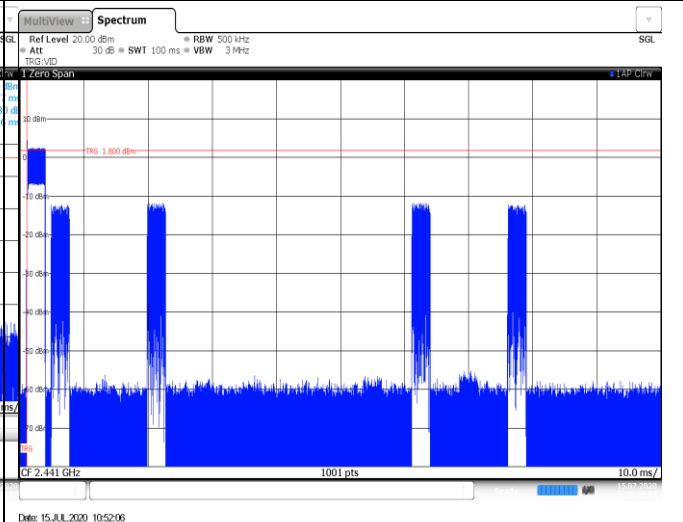
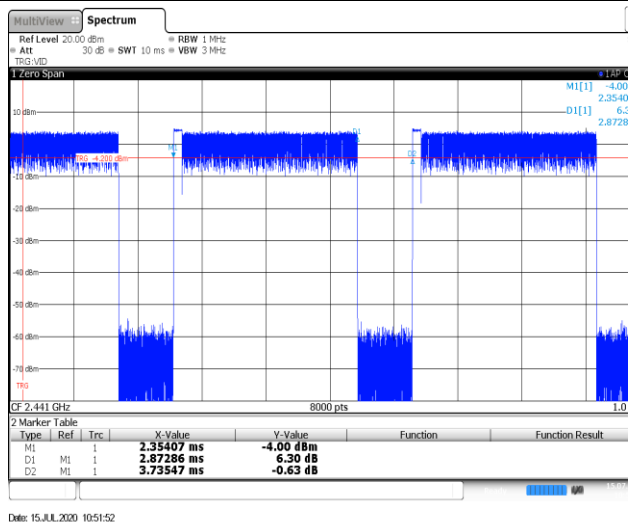
GFSK



Ton time for single burst

Burst Quantity

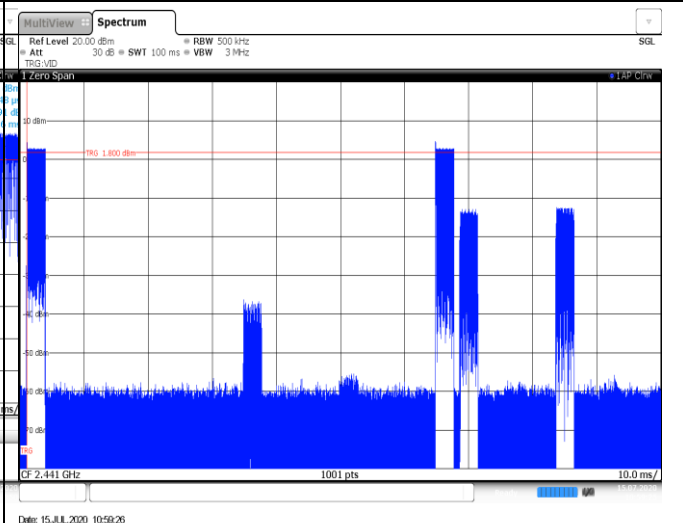
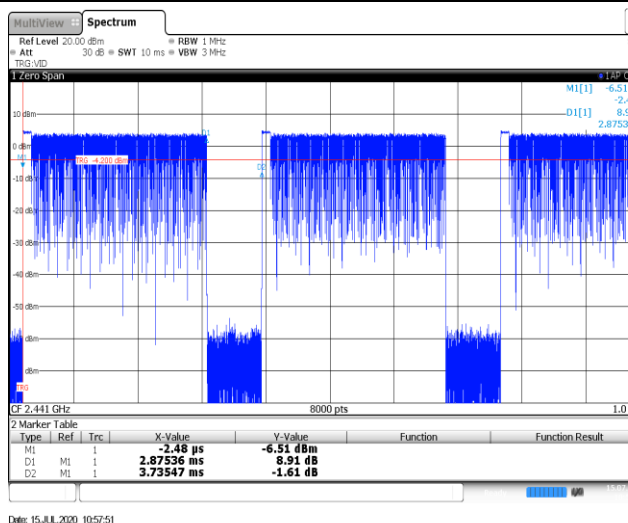
$\pi/4$  DQPSK



Ton time for single burst

Burst Quantity

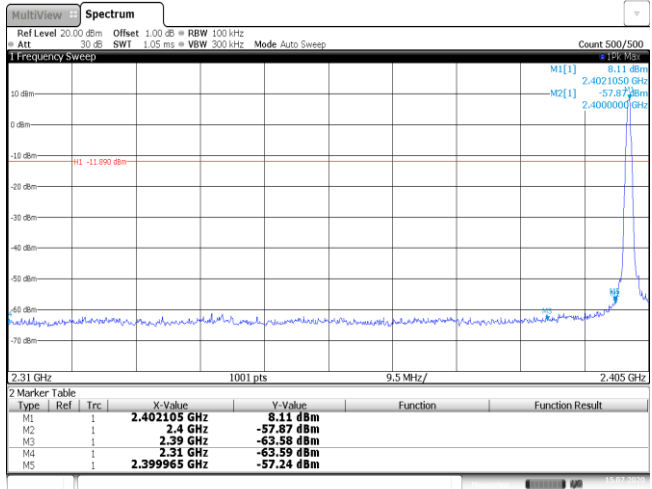
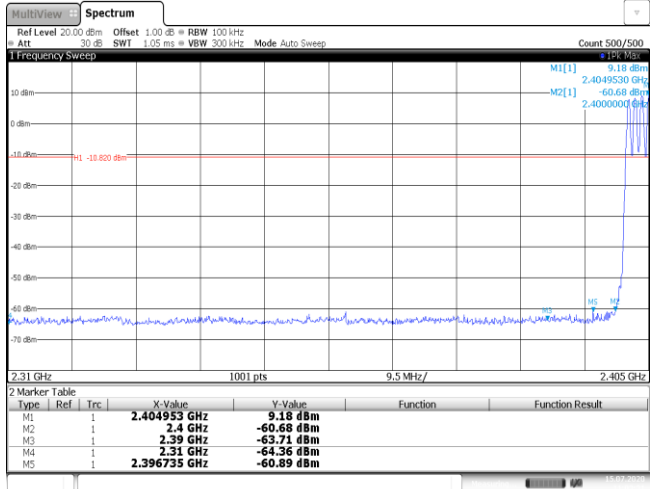
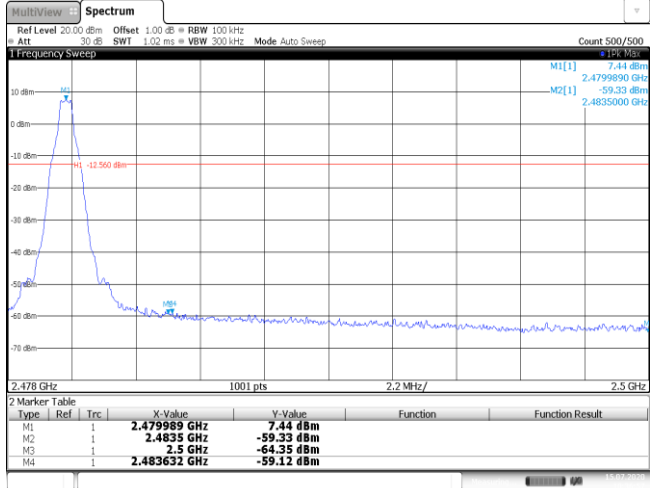
8DPSK



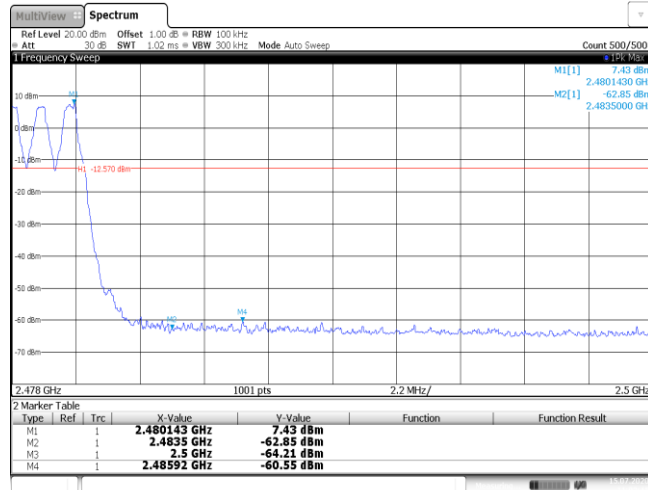
Ton time for single burst

Burst Quantity

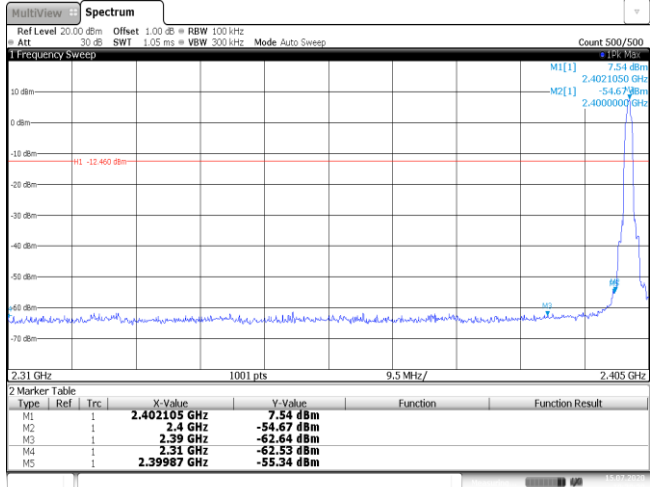
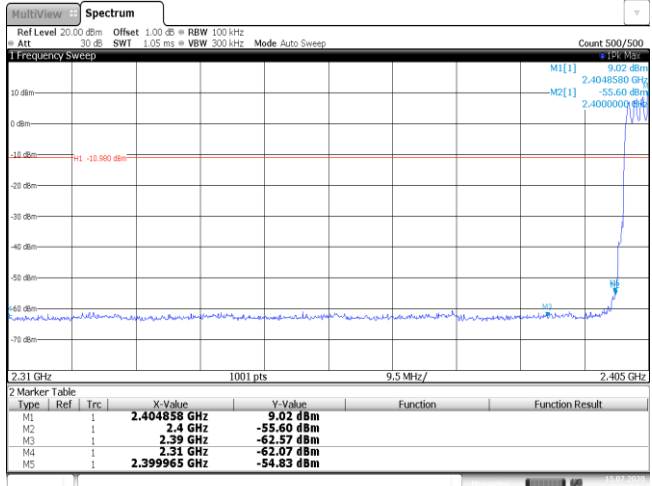
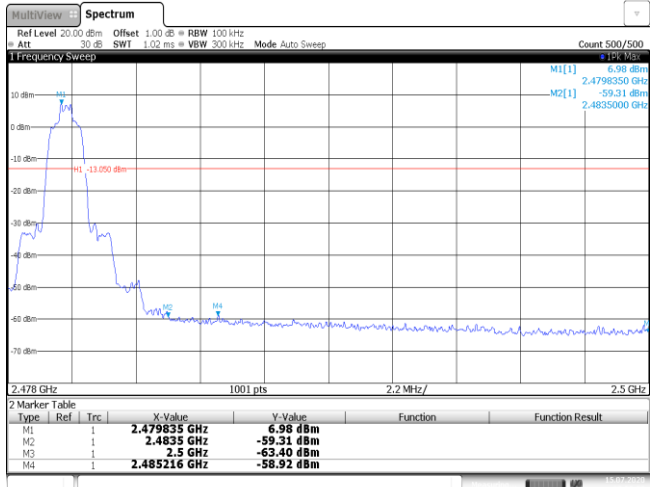
**Appendix H: Band edge and Spurious Emissions (conducted)**

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="683 739 1337 840"> <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>2.402105 GHz</td> <td>8.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-57.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-57.24 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.JUL.2020 10:31:45</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	8.11 dBm			M2	1		2.4 GHz	-57.87 dBm			M3	1		2.39 GHz	-63.58 dBm			M4	1		2.31 GHz	-63.59 dBm			M5	1		2.399965 GHz	-57.24 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	8.11 dBm																																									
M2	1		2.4 GHz	-57.87 dBm																																									
M3	1		2.39 GHz	-63.58 dBm																																									
M4	1		2.31 GHz	-63.59 dBm																																									
M5	1		2.399965 GHz	-57.24 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="683 1288 1337 1388"> <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>2.404953 GHz</td> <td>9.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-60.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.396735 GHz</td> <td>-60.89 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.JUL.2020 11:03:31</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	9.18 dBm			M2	1		2.4 GHz	-60.68 dBm			M3	1		2.39 GHz	-63.71 dBm			M4	1		2.31 GHz	-64.36 dBm			M5	1		2.396735 GHz	-60.89 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1836 1337 1937"> <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>2.479989 GHz</td> <td>7.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.48335 GHz</td> <td>-59.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-64.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483632 GHz</td> <td>-59.12 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.JUL.2020 10:36:57</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	7.44 dBm			M2	1		2.48335 GHz	-59.33 dBm			M3	1		2.5 GHz	-64.35 dBm			M4	1		2.483632 GHz	-59.12 dBm									
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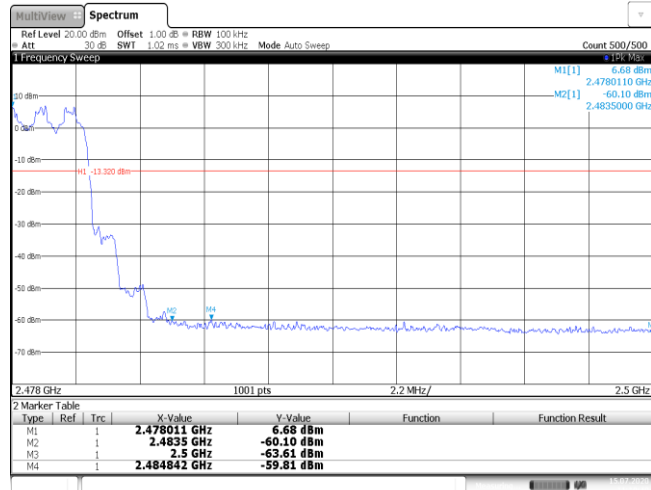
CH78  
Hopping mode



Date: 15.JUL.2020 11:03:46

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
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<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1744 1337 1834"> <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>2.479835 GHz</td> <td>6.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-63.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.485216 GHz</td> <td>-58.92 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.JUL.2020 10:53:50</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	6.98 dBm			M2	1		2.4835 GHz	-59.31 dBm			M3	1		2.5 GHz	-63.40 dBm			M4	1		2.485216 GHz	-58.92 dBm									
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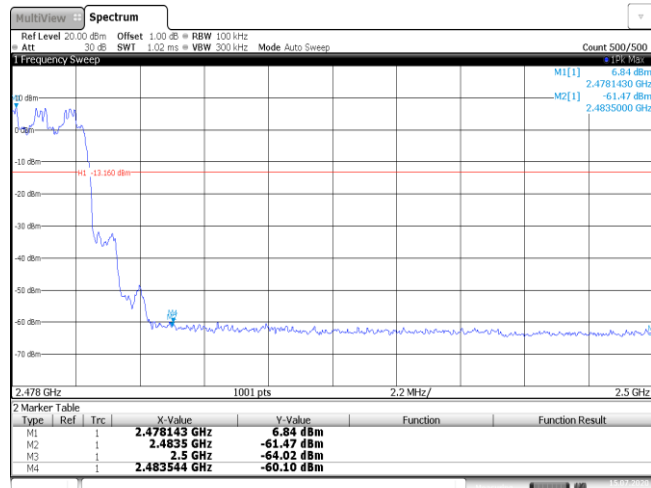
CH78  
Hopping mode



Date: 15.JUL.2020 11:10:40

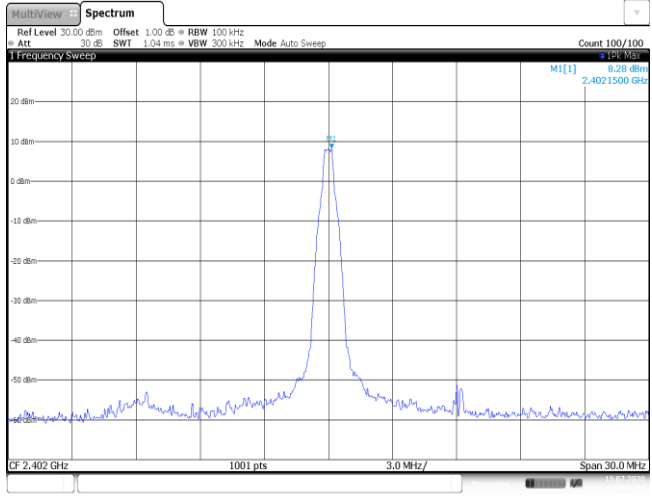
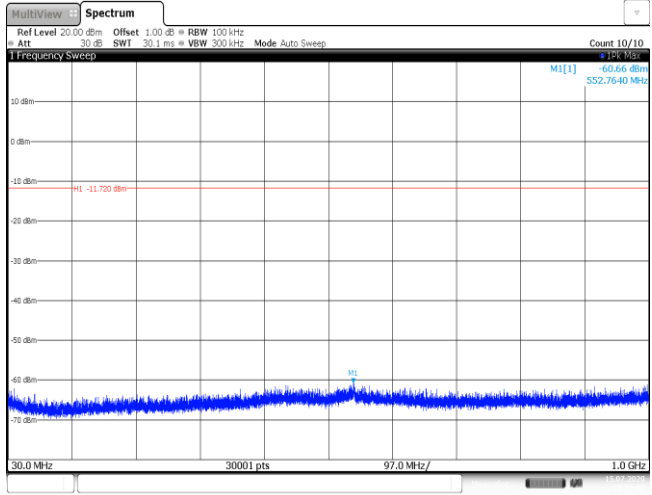
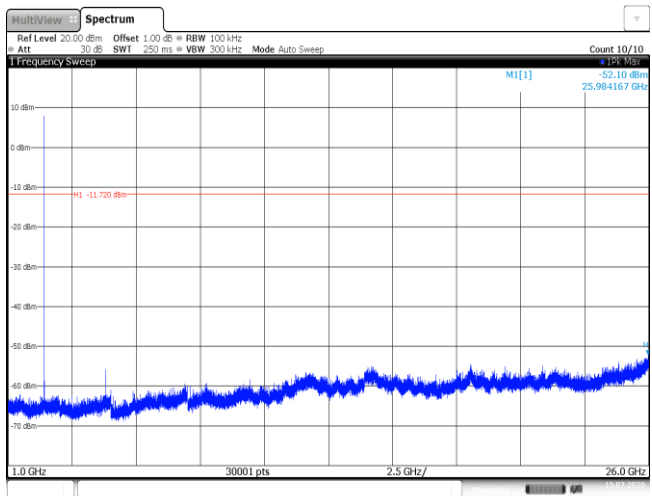
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402105 GHz</td> <td>7.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-55.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39968 GHz</td> <td>-54.80 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.JUL.2020 10:56:29</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	7.67 dBm			M2	1		2.4 GHz	-55.68 dBm			M3	1		2.39 GHz	-63.09 dBm			M4	1		2.31 GHz	-64.76 dBm			M5	1		2.39968 GHz	-54.80 dBm		
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CH78  
Hoppig mode

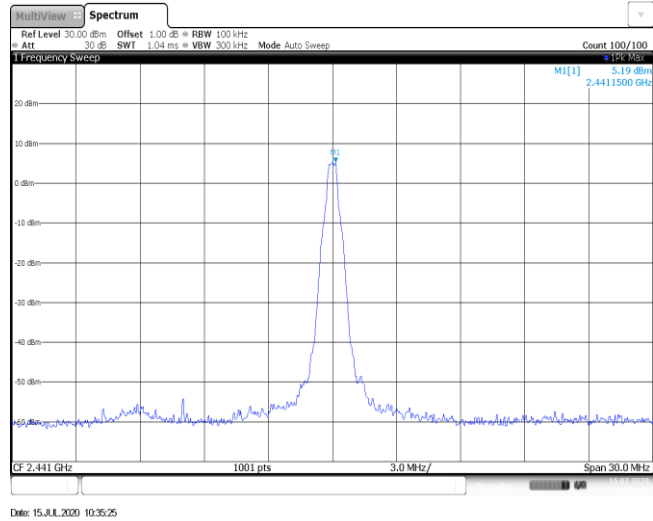


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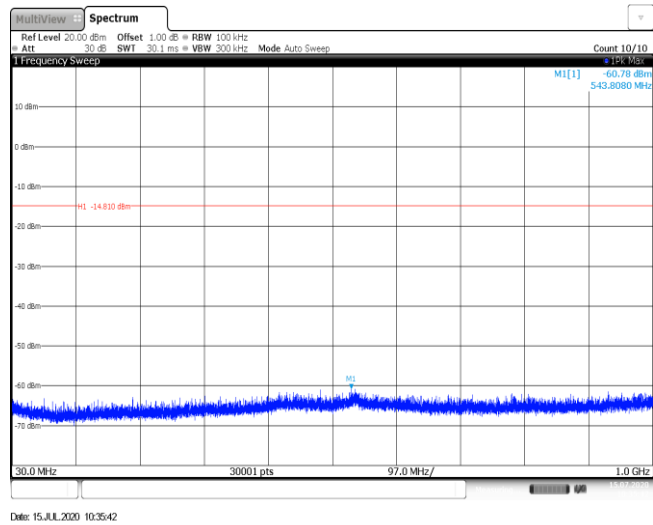


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<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

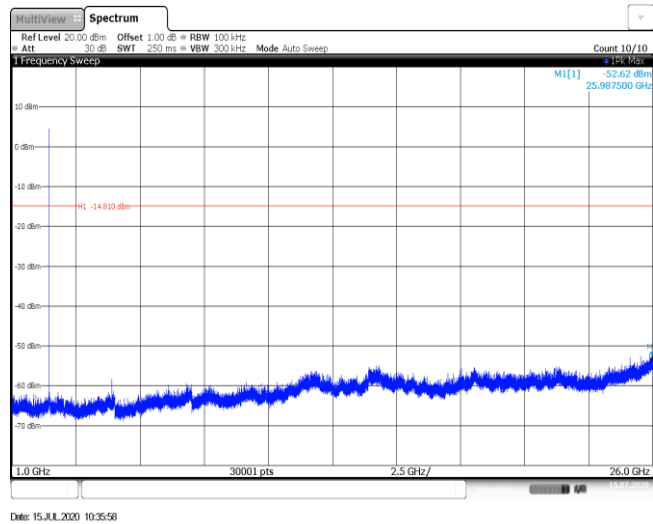
CH39  
Reference level



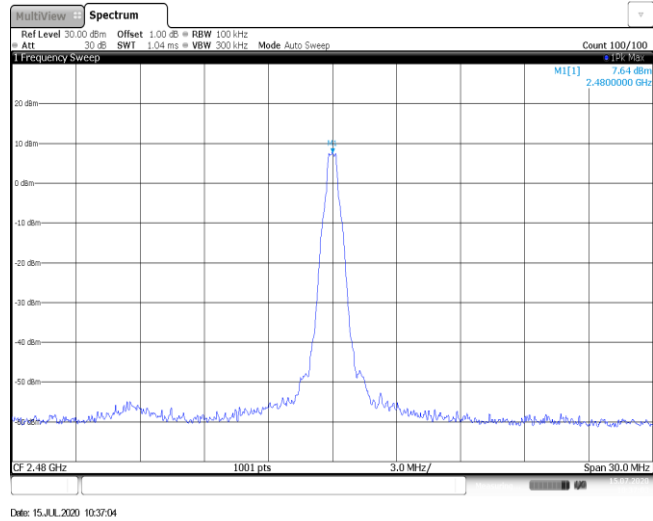
CH39  
30MHz~1000MHz



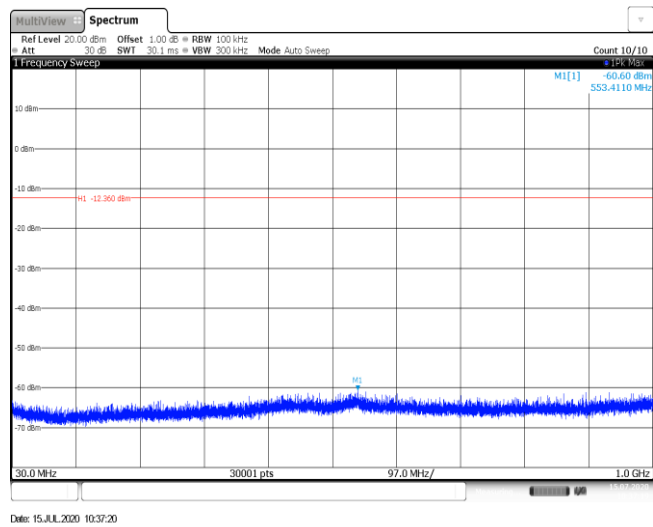
CH39  
1GHz~26GHz



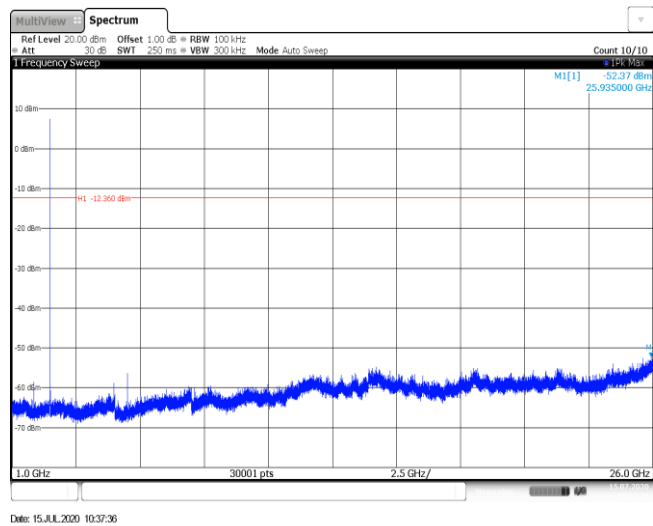
CH78  
Reference level

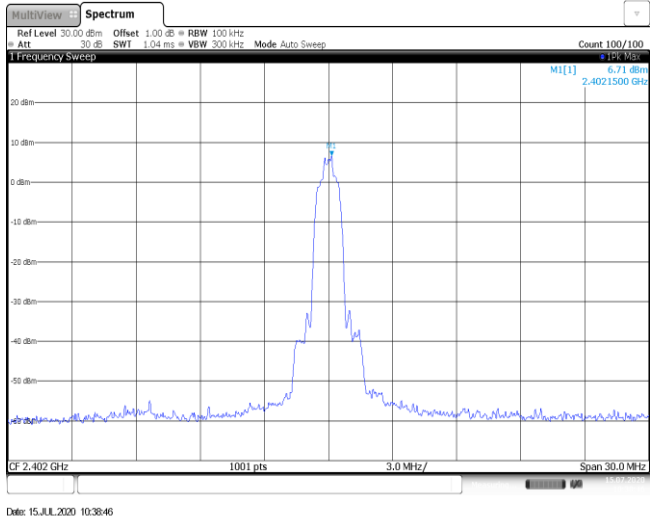
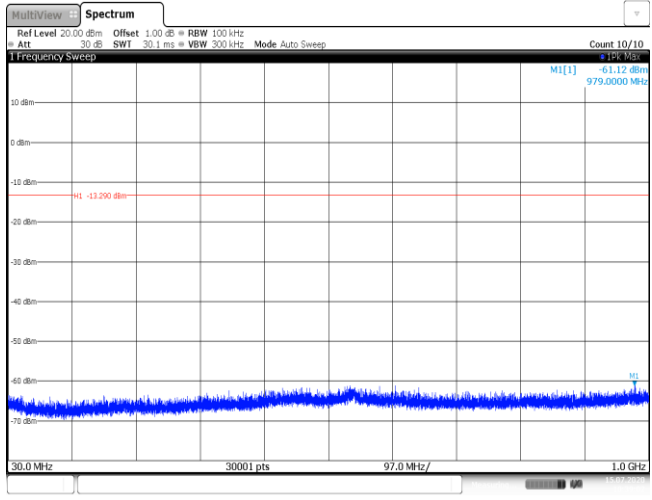
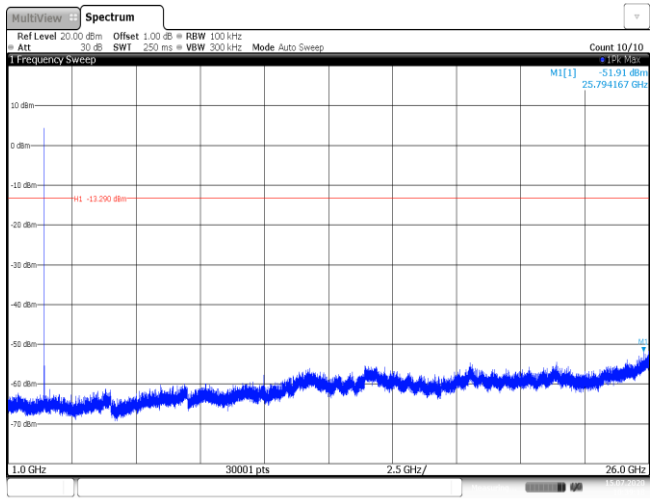


CH78  
30MHz~1000MHz

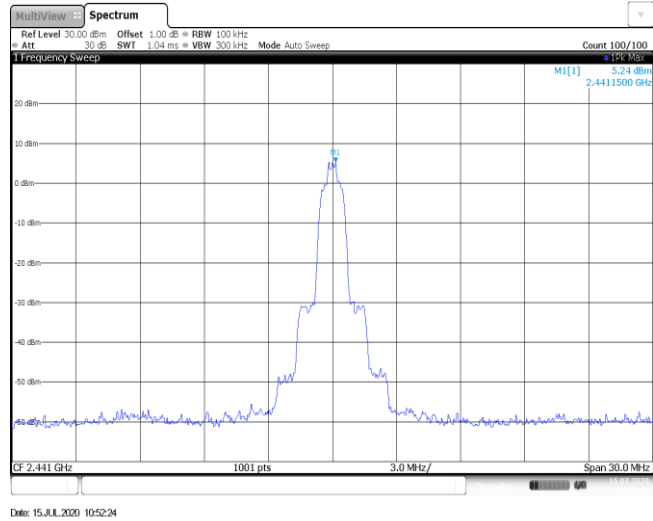


CH78  
1GHz~26GHz

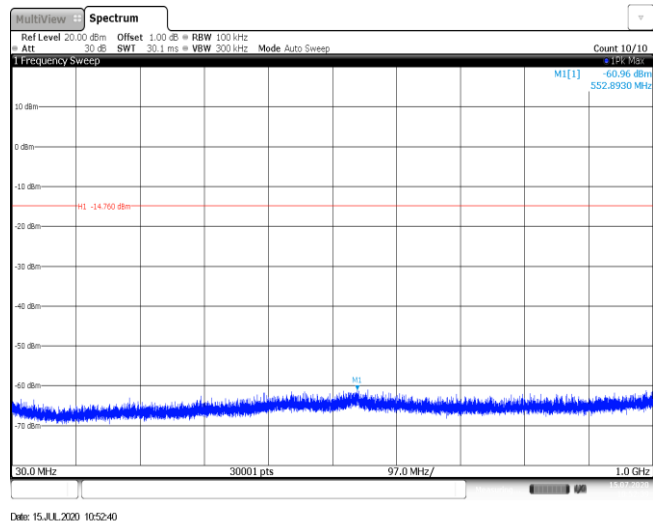


Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
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<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

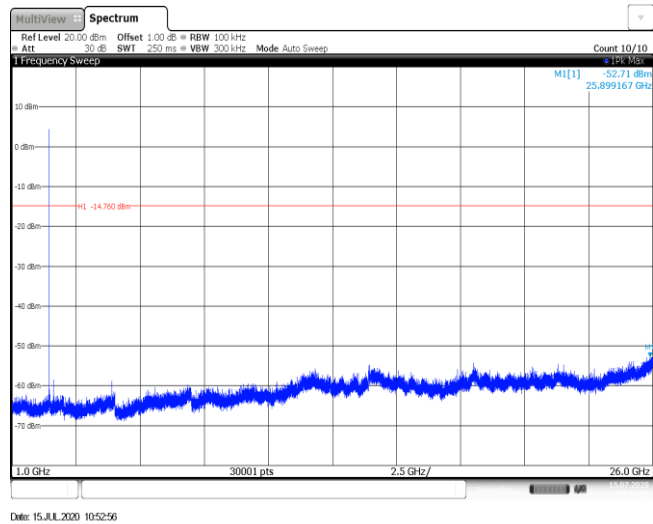
CH39  
Reference level



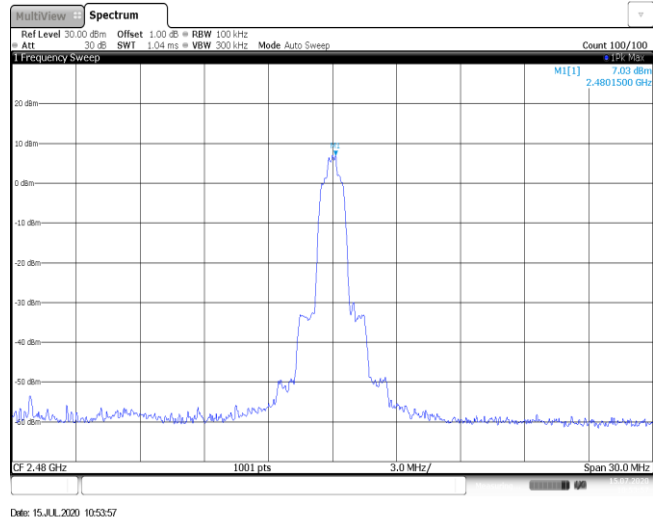
CH39  
30MHz~1000MHz



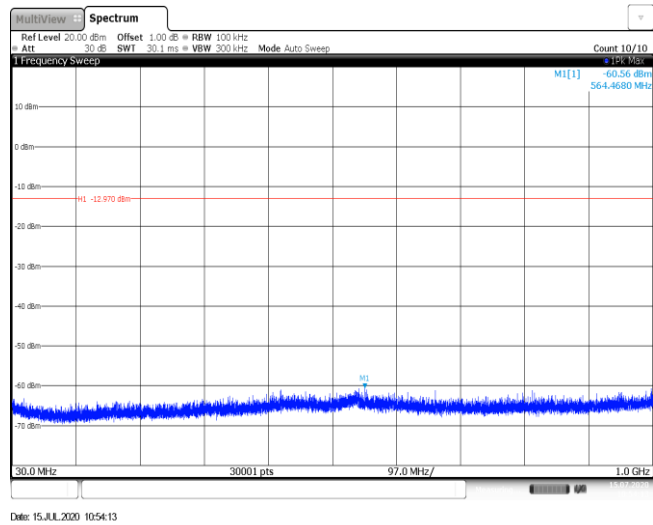
CH39  
1GHz~26GHz



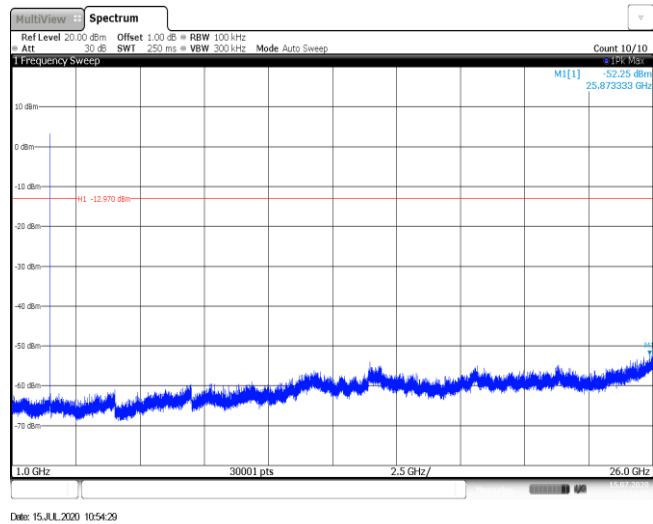
CH78  
Reference level

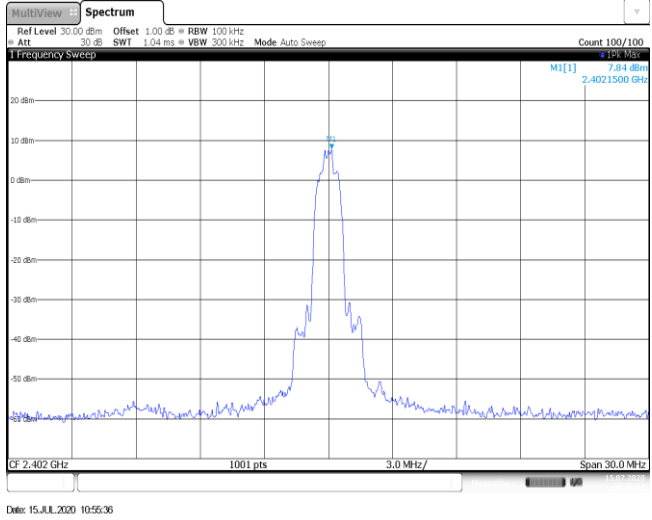
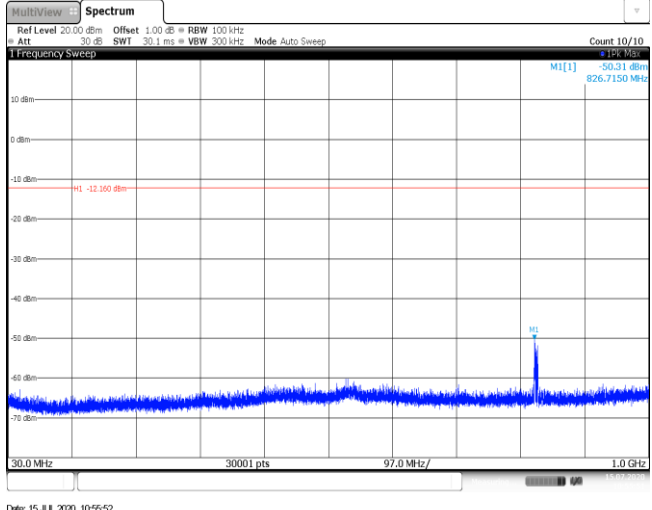
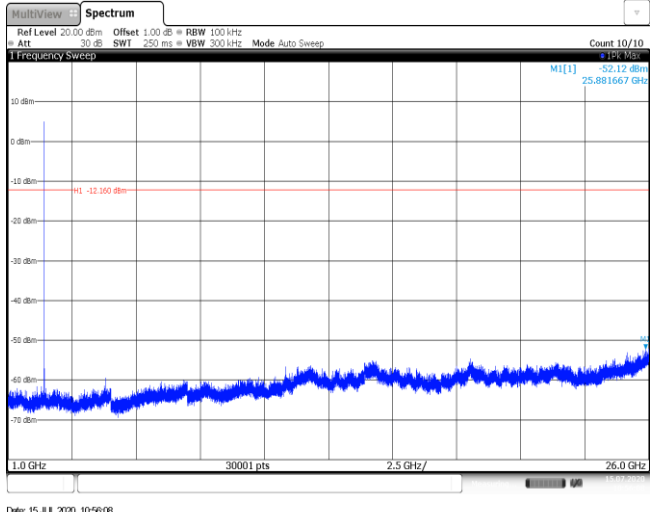


CH78  
30MHz~1000MHz

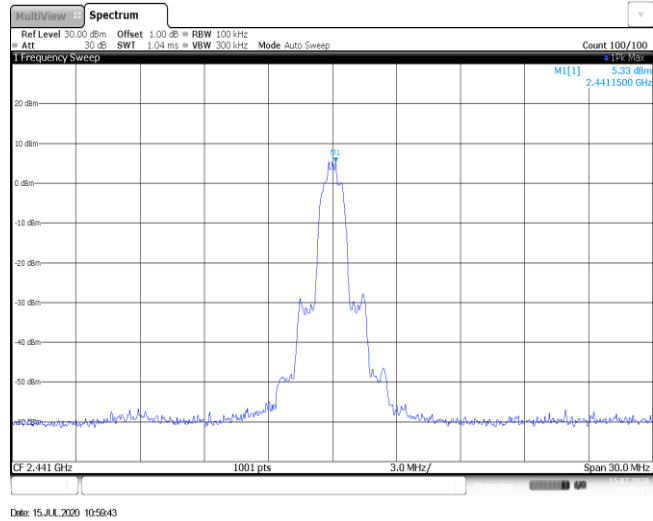


CH78  
1GHz~26GHz

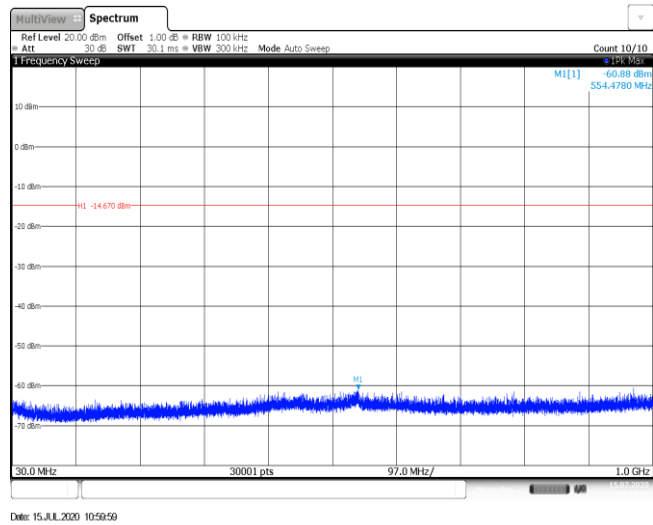


Test Item:	Spurious Emission	Modulation type:	8DPSK
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CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

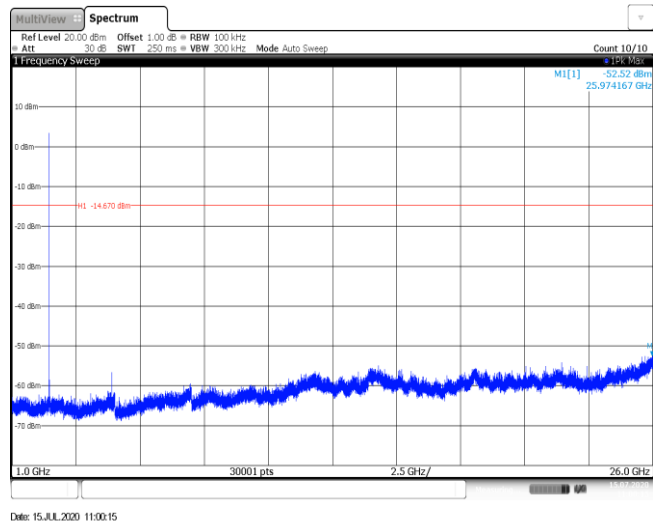
CH39  
Reference level



CH39  
30MHz~1000MHz

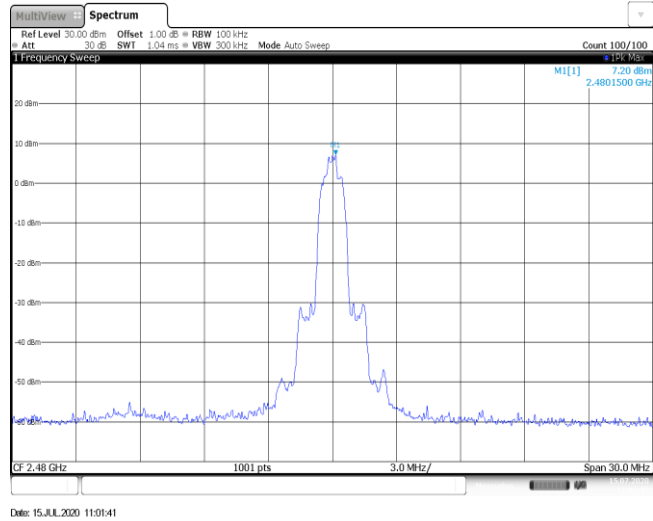


CH39  
1GHz~26GHz

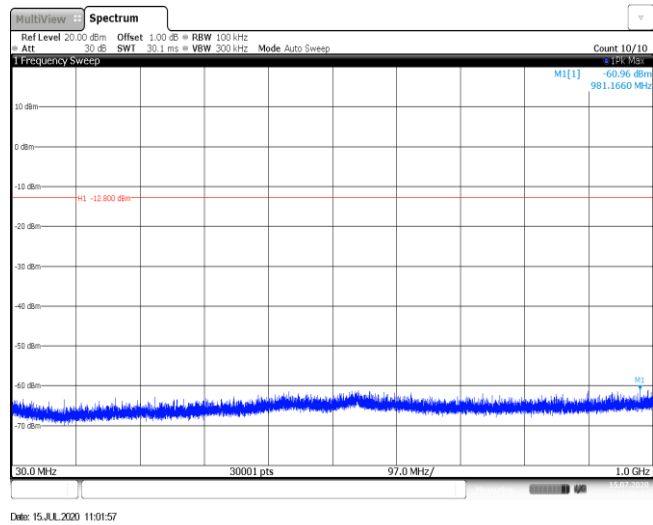




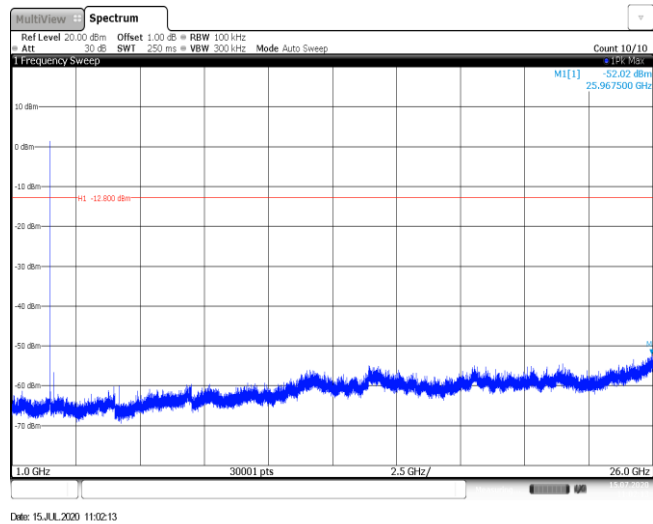
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



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