

# APPENDIX REPORT

Project No.	SHT2006022011EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20060220036	Model No.	70
Start test date	2020/06/12	Finish date	2020/06/18
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	Auditor	<i>William.wang</i>

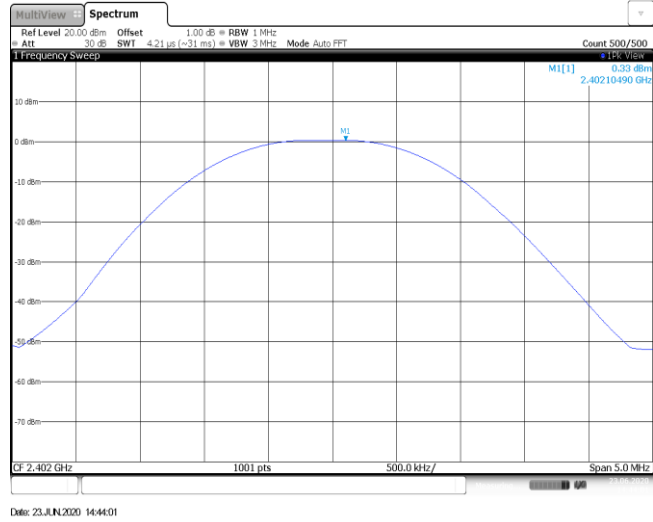
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

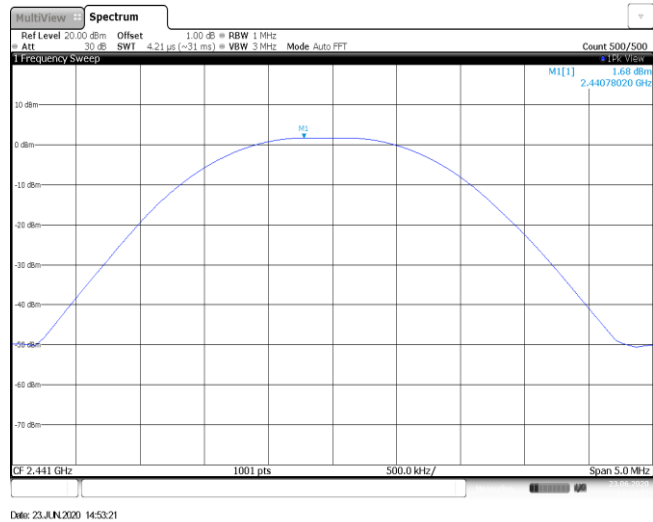
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	0.33	0.21	≤ 30.00	Pass
	39	1.68	1.40		
	78	0.67	0.44		
π/4DQPSK	00	3.47	3.38	≤ 21.00	Pass
	39	3.63	3.44		
	78	3.49	3.25		
8DPSK	00	4.07	3.88	≤ 21.00	Pass
	39	4.42	3.91		
	78	3.96	3.77		

**Modulation Type:** **GFSK**

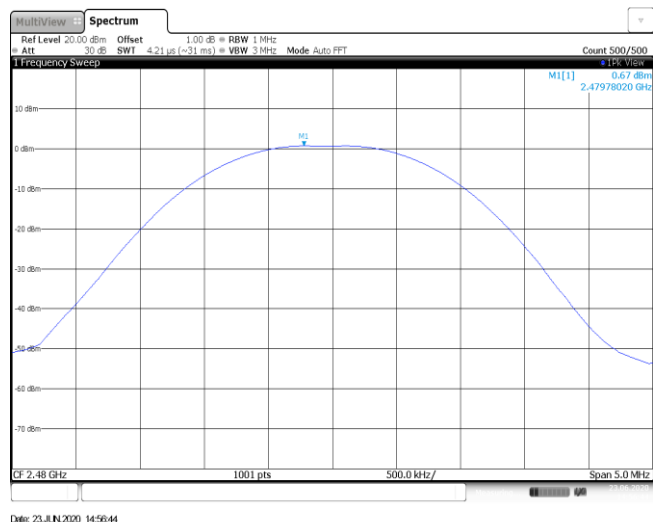
CH00



CH39

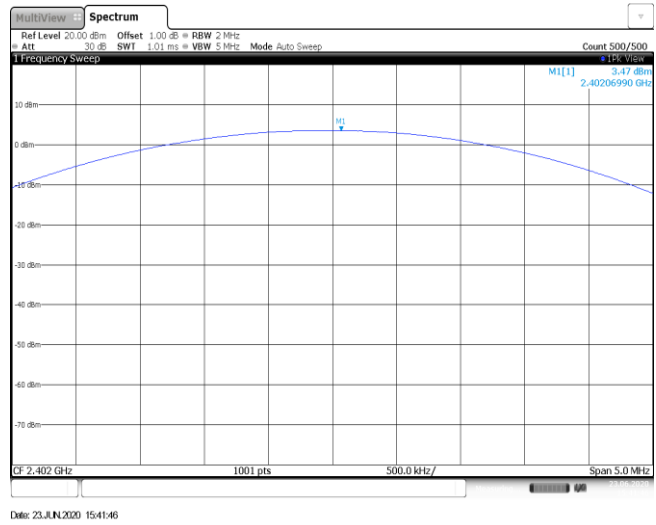


CH78

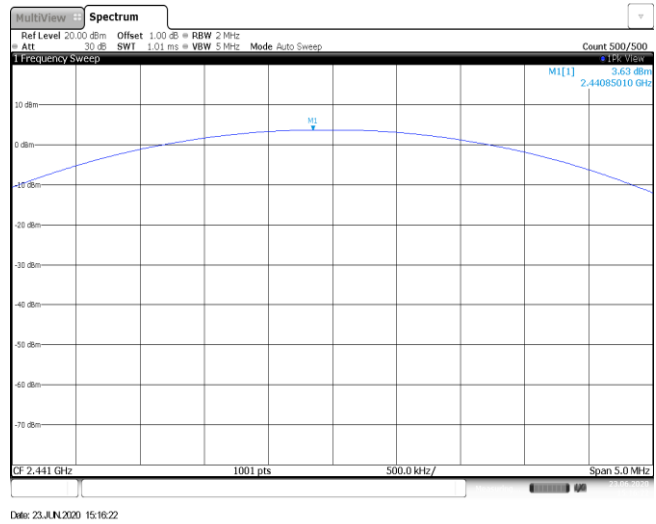


**Modulation Type:**  $\pi/4$ QPSK

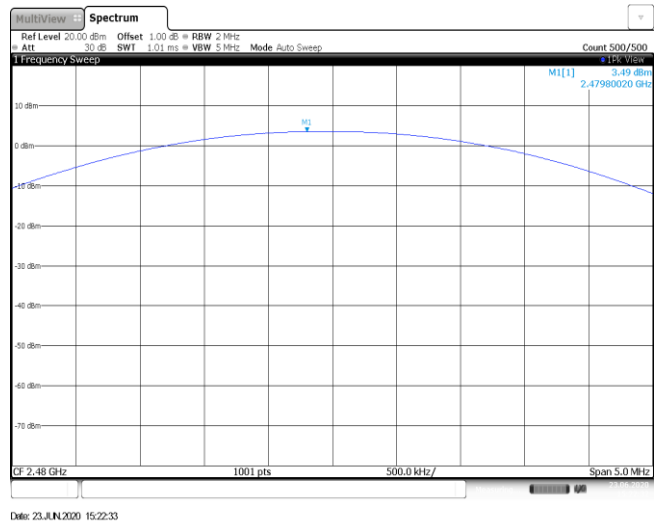
CH00



CH39

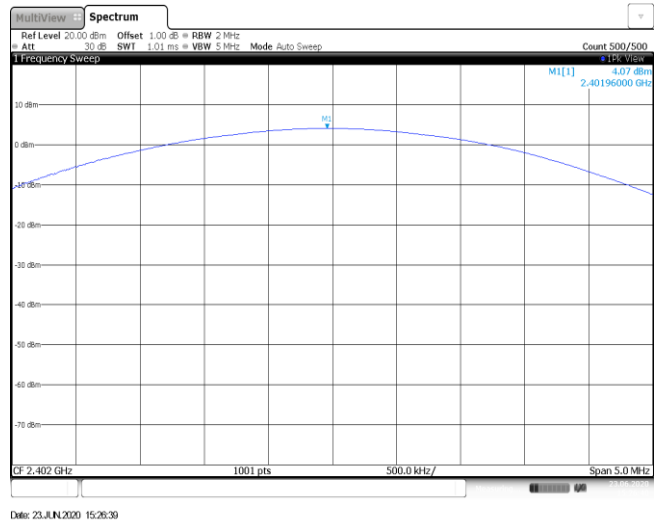


CH78

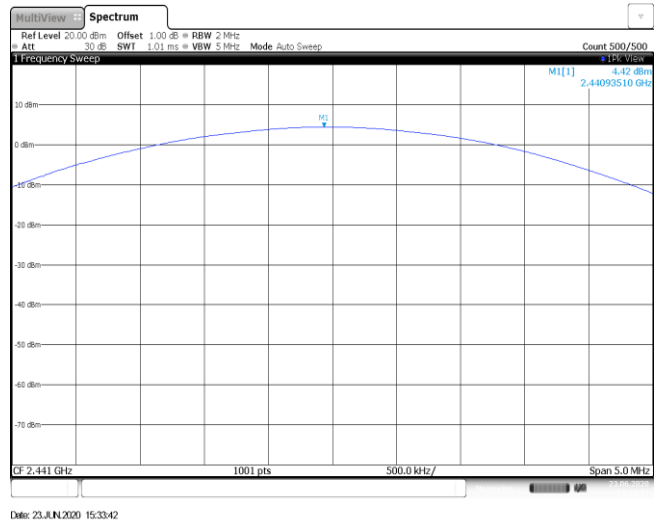


**Modulation Type: 8DPSK**

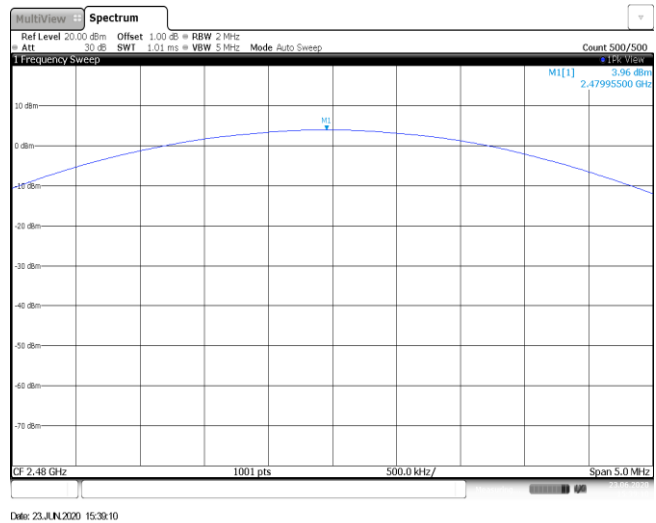
CH00



CH39



CH78

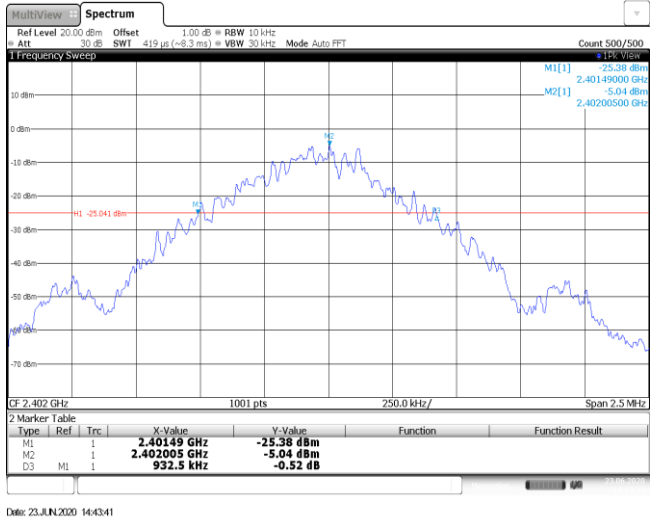


**Appendix B : 20 dB Bandwidth**

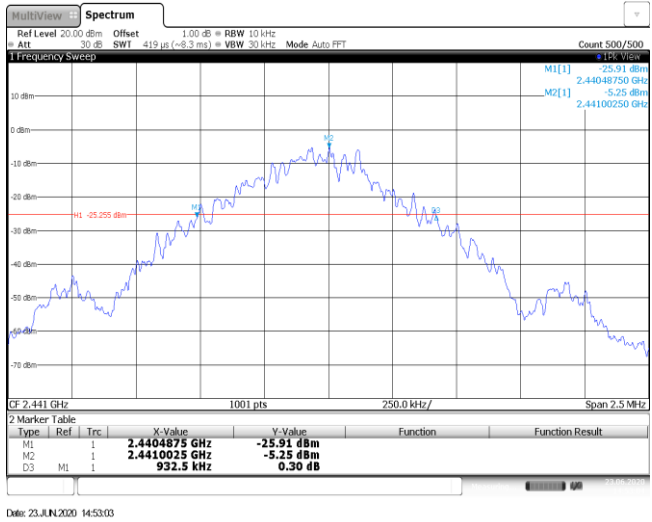
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	932.50	-	Pass
	39	932.50		
	78	932.50		
$\pi/4$ DQPSK	00	1277.50	-	Pass
	39	1277.50		
	78	1350.00		
8DPSK	00	1342.50	-	Pass
	39	1342.50		
	78	1345.00		

**Modulation Type: GFSK**

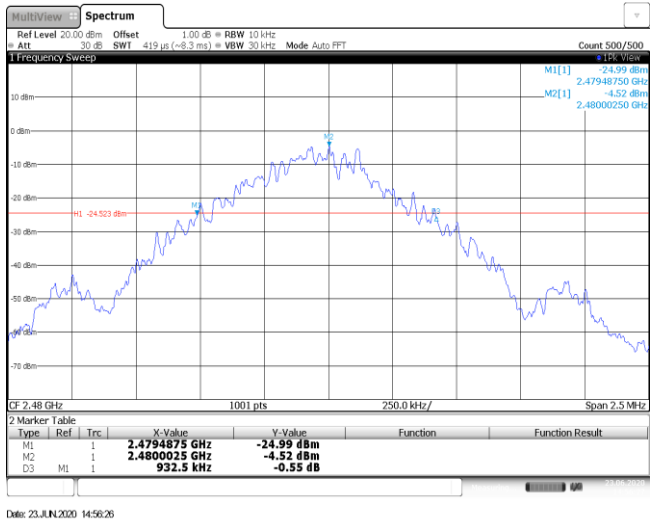
CH00



CH39

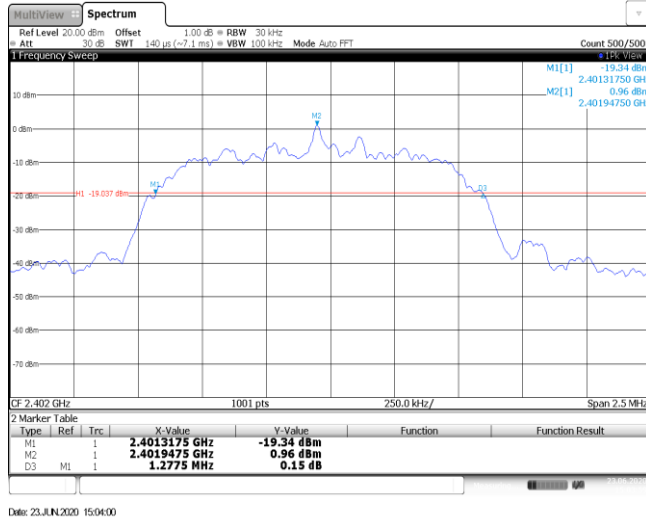


CH78

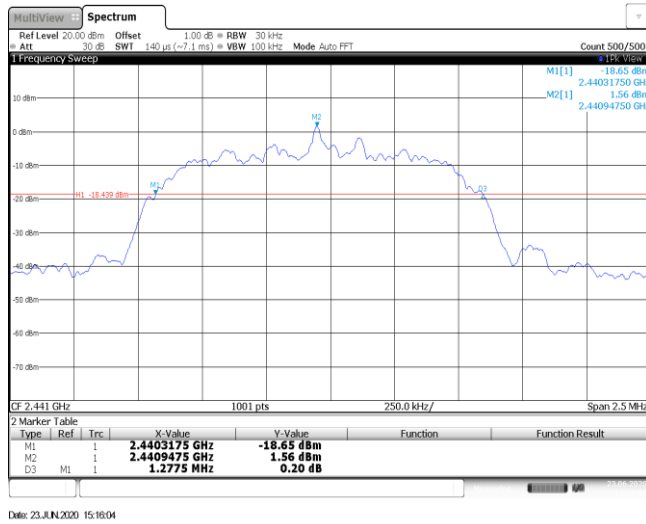


**Modulation Type:**  $\pi/4$ DQPSK

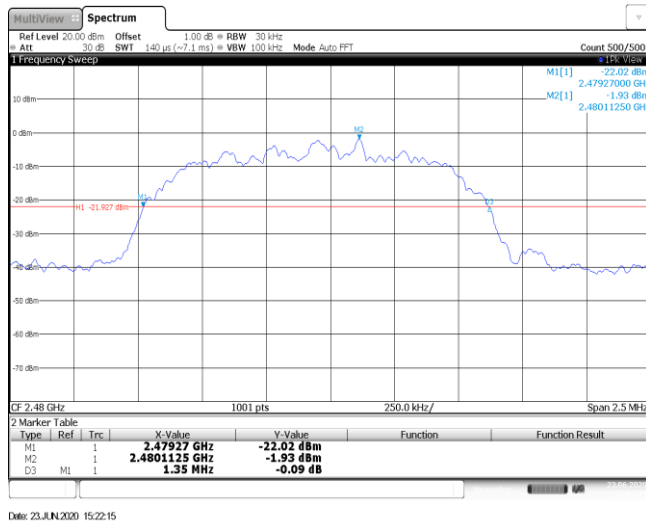
CH00



CH39



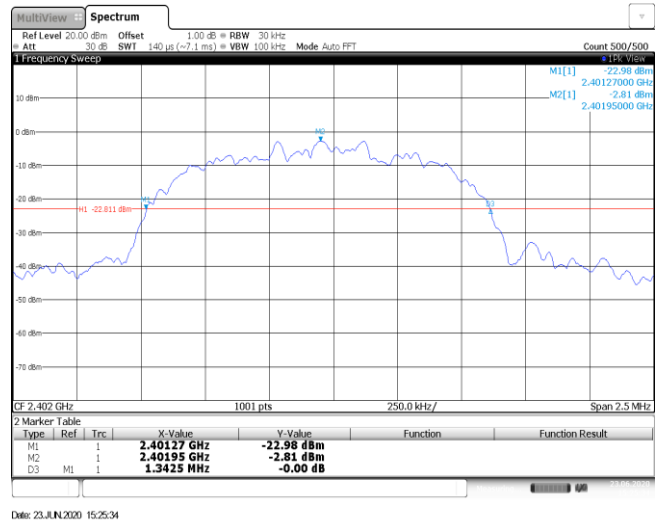
CH78



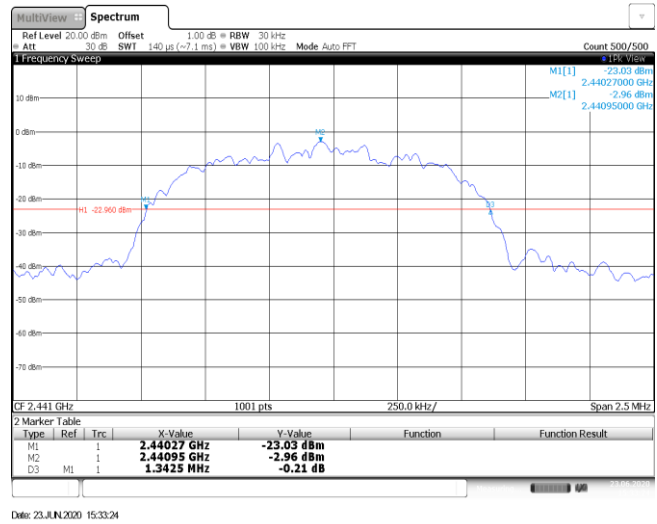


**Modulation Type: 8DPSK**

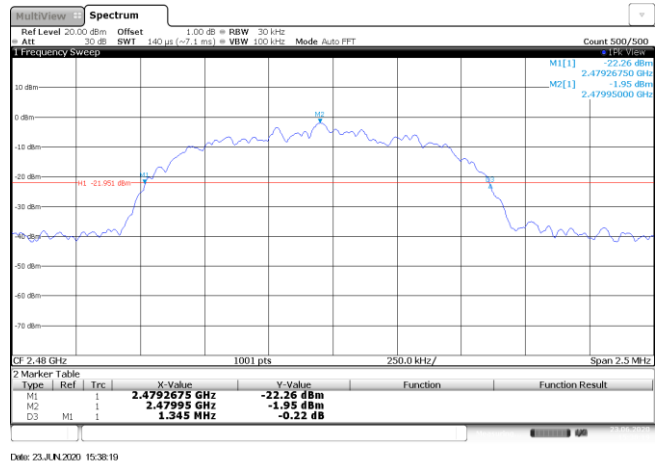
CH00



CH39



CH78



**Appendix C: 99% Occupied Bandwidth**

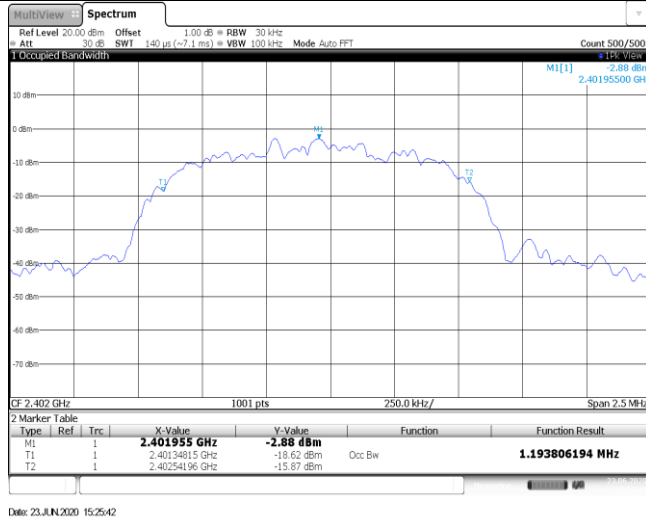
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.88	-	Pass
	39	0.88		
	78	0.88		
$\pi/4$ DQPSK	00	1.20	-	Pass
	39	1.20		
	78	1.20		
8DPSK	00	1.19	-	Pass
	39	1.20		
	78	1.20		

Modulation Type: <b>GFSK</b>																													
CH00	<p><b>1 Occupied Bandwidth</b></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><b>2.402005 GHz</b></td> <td><b>-1.79 dBm</b></td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.40150549 GHz</td> <td>-17.92 dBm</td> <td>Occ Bw</td> <td><b>884.115884116 kHz</b></td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.40239961 GHz</td> <td>-21.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 14:43:51</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		<b>2.402005 GHz</b>	<b>-1.79 dBm</b>			T1	1		2.40150549 GHz	-17.92 dBm	Occ Bw	<b>884.115884116 kHz</b>	T2	1		2.40239961 GHz	-21.40 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		<b>2.402005 GHz</b>	<b>-1.79 dBm</b>																									
T1	1		2.40150549 GHz	-17.92 dBm	Occ Bw	<b>884.115884116 kHz</b>																							
T2	1		2.40239961 GHz	-21.40 dBm																									
CH39	<p><b>1 Occupied Bandwidth</b></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><b>2.4410025 GHz</b></td> <td><b>-1.18 dBm</b></td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.44050549 GHz</td> <td>-17.53 dBm</td> <td>Occ Bw</td> <td><b>879.120879121 kHz</b></td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.44139462 GHz</td> <td>-21.08 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 14:53:12</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		<b>2.4410025 GHz</b>	<b>-1.18 dBm</b>			T1	1		2.44050549 GHz	-17.53 dBm	Occ Bw	<b>879.120879121 kHz</b>	T2	1		2.44139462 GHz	-21.08 dBm		
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M1	1		<b>2.4800025 GHz</b>	<b>-1.21 dBm</b>																									
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T2	1		2.48050312 GHz	-21.11 dBm																									

Modulation Type: $\pi/4$ DQPSK																													
CH00	<p><b>2 Marker Table</b></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>2.4021124 GHz</td> <td>-2.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.40134815 GHz</td> <td>-17.07 dBm</td> <td>Occ Bw</td> <td>1.198801199 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.40254695 GHz</td> <td>-17.72 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:04:08</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4021124 GHz	-2.95 dBm			T1	1		2.40134815 GHz	-17.07 dBm	Occ Bw	1.198801199 MHz	T2	1		2.40254695 GHz	-17.72 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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T1	1		2.40134815 GHz	-17.07 dBm	Occ Bw	1.198801199 MHz																							
T2	1		2.40254695 GHz	-17.72 dBm																									
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.440955 GHz	-2.48 dBm																									
T1	1		2.44034815 GHz	-16.52 dBm	Occ Bw	1.198801199 MHz																							
T2	1		2.44154695 GHz	-16.96 dBm																									
CH78	<p><b>2 Marker Table</b></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>2.4799525 GHz</td> <td>-2.13 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.47934815 GHz</td> <td>-16.59 dBm</td> <td>Occ Bw</td> <td>1.201298701 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.48054695 GHz</td> <td>-16.67 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:22:23</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4799525 GHz	-2.13 dBm			T1	1		2.47934815 GHz	-16.59 dBm	Occ Bw	1.201298701 MHz	T2	1		2.48054695 GHz	-16.67 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4799525 GHz	-2.13 dBm																									
T1	1		2.47934815 GHz	-16.59 dBm	Occ Bw	1.201298701 MHz																							
T2	1		2.48054695 GHz	-16.67 dBm																									

**Modulation Type: 8DPSK**

CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥932.5	Pass
π/4DQPSK	39	1.00	≥900	Pass
8DPSK	39	1.00	≥896.67	Pass

**Note:**

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

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

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

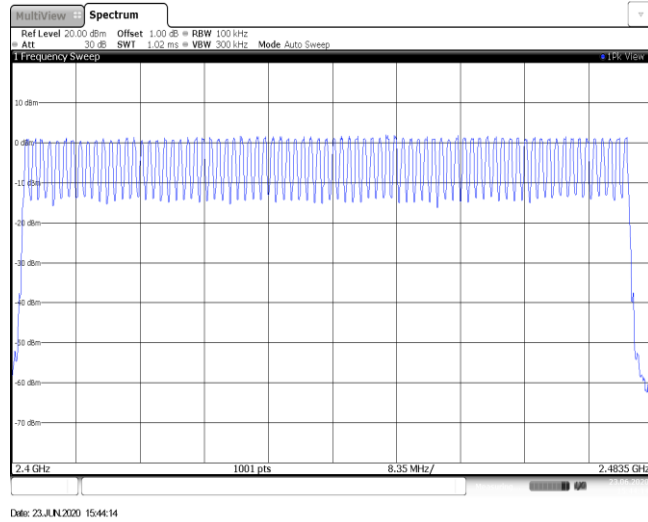
<p style="text-align: center;">GFSK</p>	<p style="text-align: center;">Date: 23.JUN.2020 14:50:23</p>
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	<p style="text-align: center;">Date: 23.JUN.2020 15:00:05</p>
<p style="text-align: center;">8DPSK</p>	<p style="text-align: center;">Date: 23.JUN.2020 15:32:11</p>

**Appendix E: Hopping Channel Number**

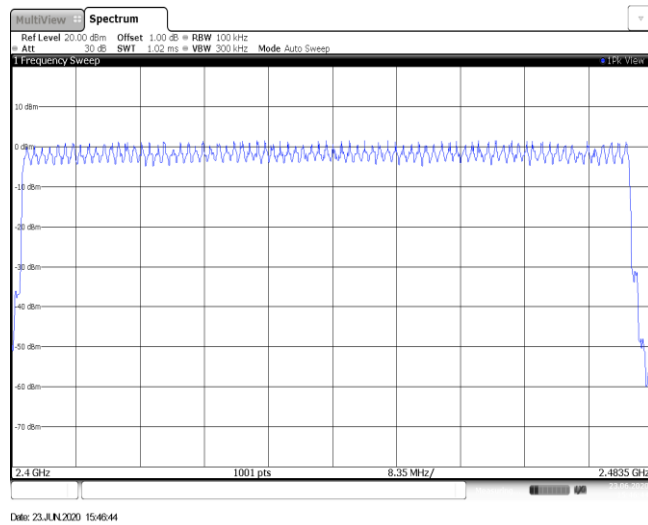
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



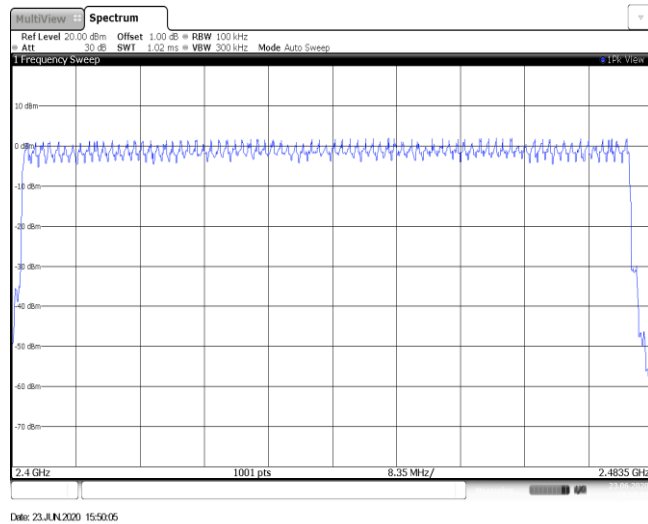
GFSK



$\pi/4$ DQPSK



8DPSK

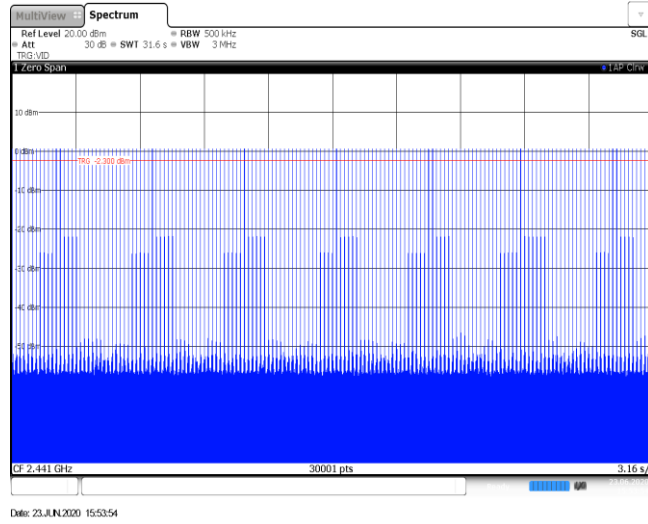


**Appendix F: Dwell Time**

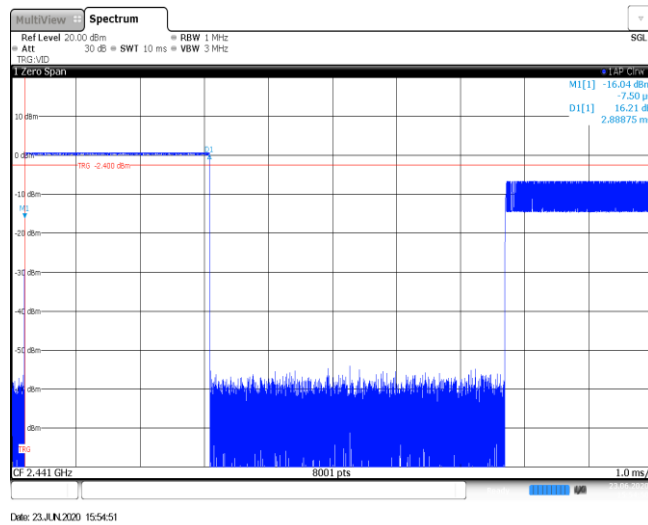
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	320	0.12	≤ 0.40	Pass
	DH3	1.64	160	0.26		
	DH5	2.89	107	0.31		
π/4DQPSK	2DH1	0.40	320	0.13	≤ 0.40	Pass
	2DH3	1.65	160	0.26		
	2DH5	2.90	107	0.31		
8DPSK	3DH1	0.40	320	0.13	≤ 0.40	Pass
	3DH3	1.65	160	0.26		
	3DH5	2.90	107	0.31		

Modulation Type: GFSK	
DH1 Burst width	<p>Ref Level 20.00 dBm = RBW 1 MHz Att 30 dB = SWT 3 ms = VBW 3 MHz TDS:VD Zero Span M[1] -21.78 dBm D[1] 12.03 dB 386.625 dBm CF 2.441 GHz 8001 pts 300.0 <math>\mu</math>s/</p> <p>Date: 23 JUN 2020 15:51:52</p>
DH1 Burst number	<p>Ref Level 20.00 dBm = RBW 500 kHz Att 30 dB = SWT 31.6 s = VBW 3 MHz TDS:VD Zero Span CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 23 JUN 2020 15:52:26</p>
DH3 Burst width	<p>Ref Level 20.00 dBm = RBW 1 MHz Att 30 dB = SWT 5 ms = VBW 3 MHz TDS:VD Zero Span M[1] -19.31 dBm D[1] 16.24 dB 1.641875 ms CF 2.441 GHz 8001 pts 500.0 <math>\mu</math>s/</p> <p>Date: 23 JUN 2020 15:53:20</p>

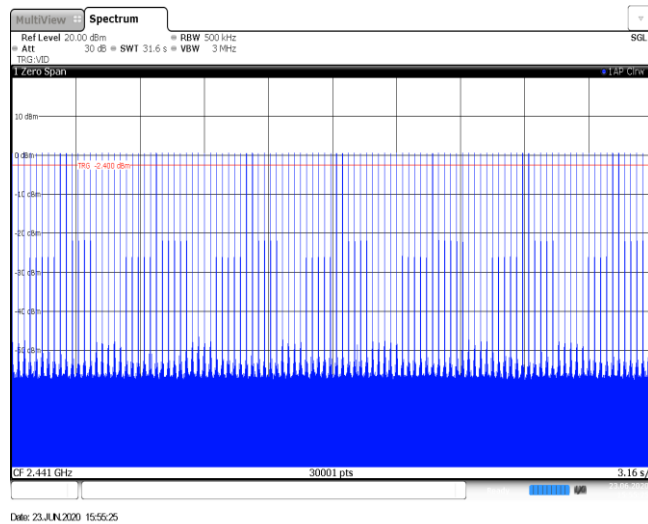
DH3  
Burst number



DH5  
Burst width

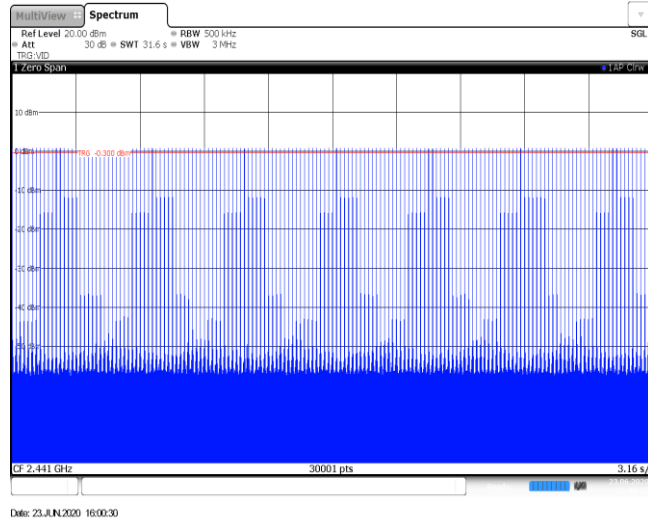


DH5  
Burst number

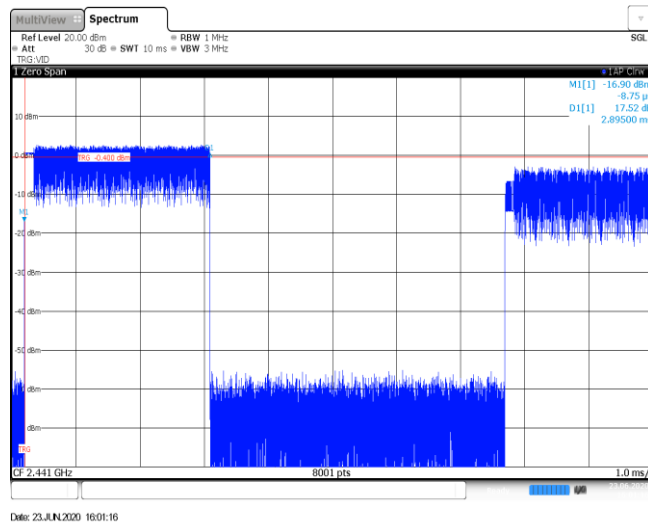


Modulation Type:	$\pi/4$ DQPSK
<p>2DH1 Burst width</p>	
<p>2DH1 Burst number</p>	
<p>2DH3 Burst width</p>	

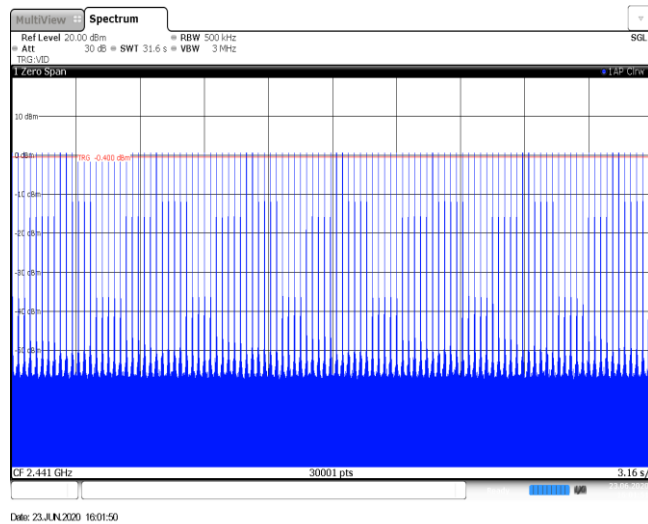
2DH3  
Burst number



2DH5  
Burst width

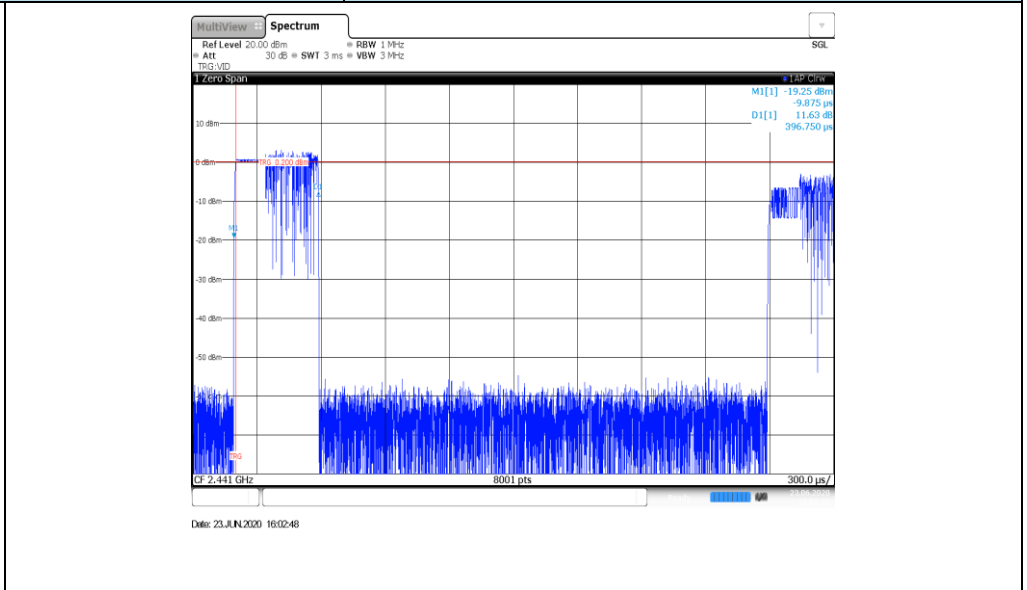


2DH5  
Burst number

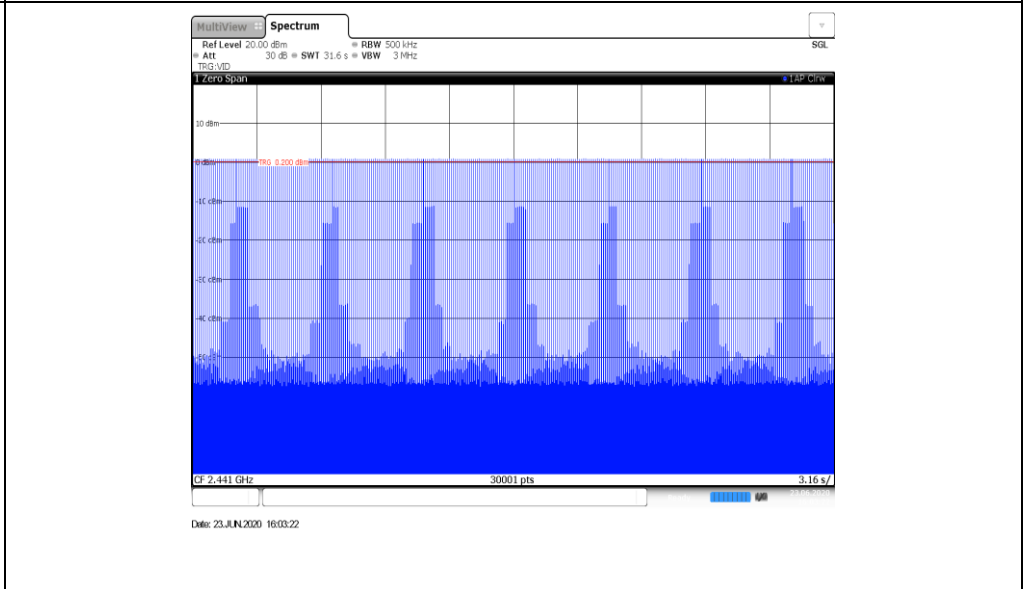


**Modulation Type: 8DPSK**

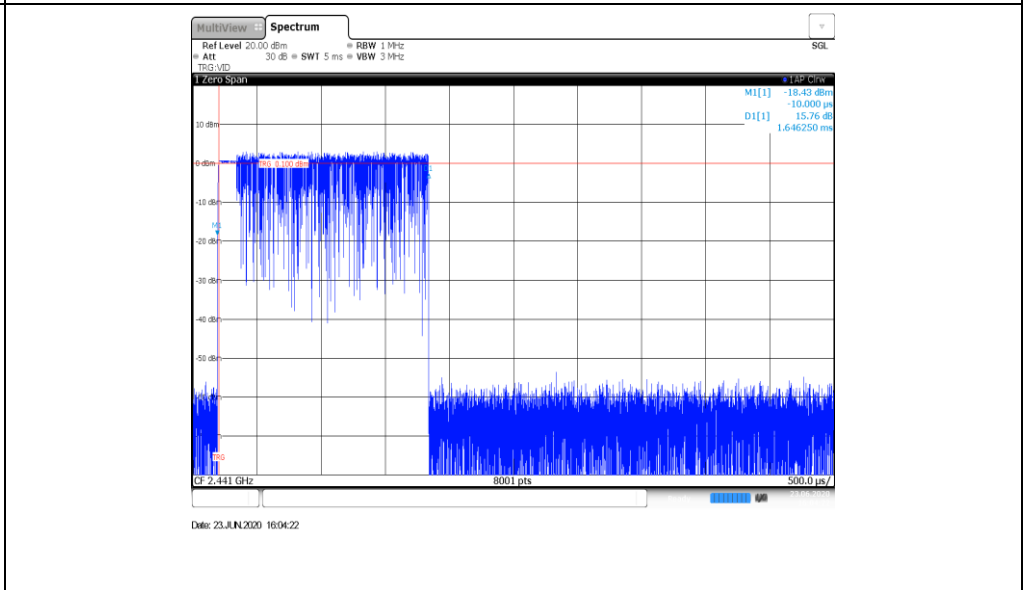
3DH1  
Burst width



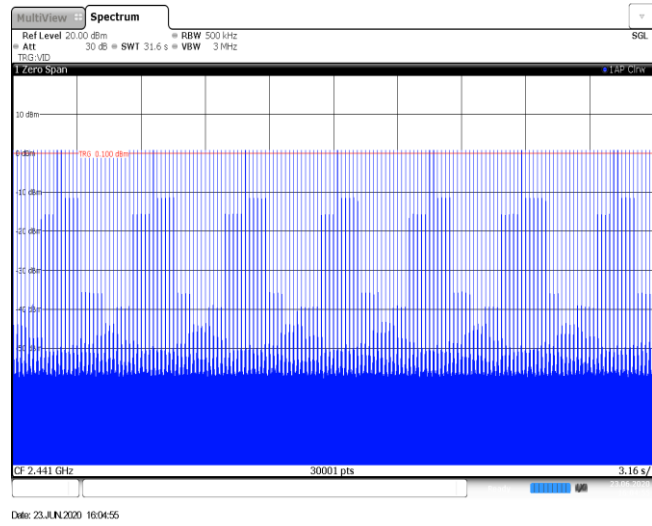
3DH1  
Burst number



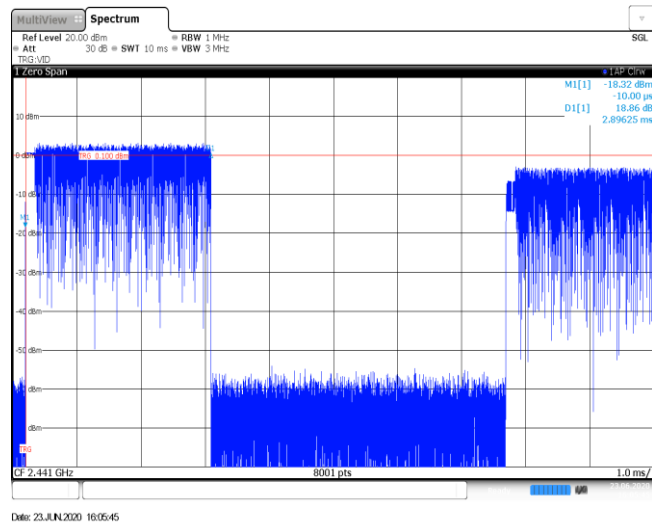
3DH3  
Burst width



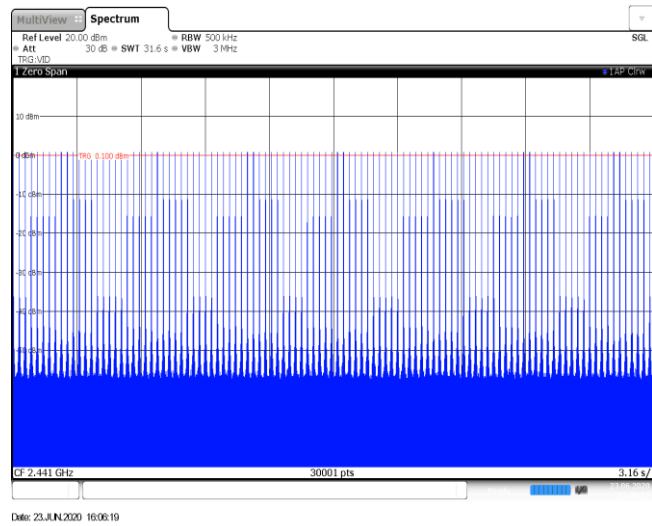
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

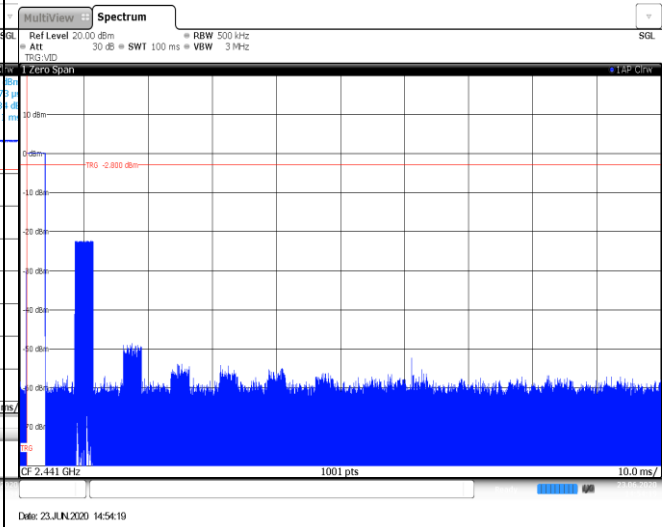
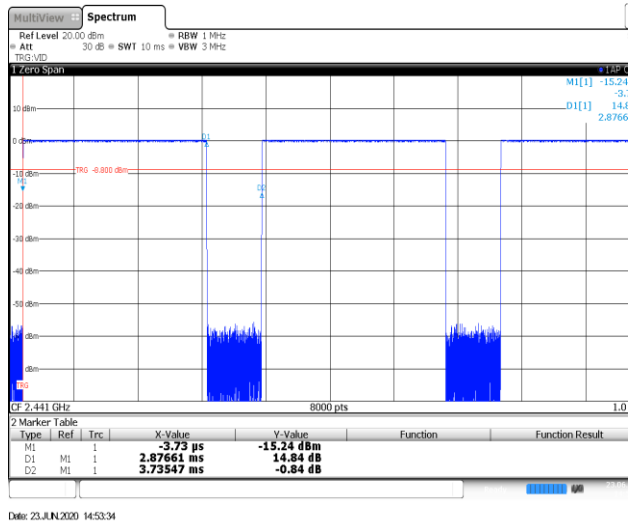




**Appendix G: Duty Cycle Correction Factor (DCCF)**

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	2.88	100	2.00	-24.79
$\pi/4$ DQPSK	2441	2.88	100	1.00	-30.81
8DPSK	2441	2.89	100	2.00	-24.76

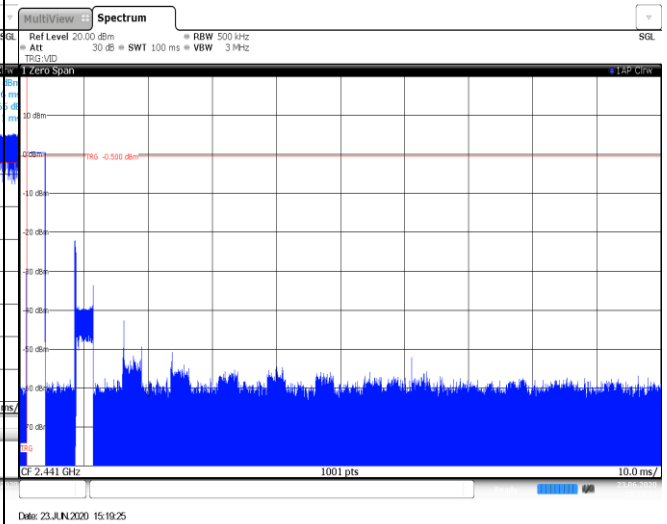
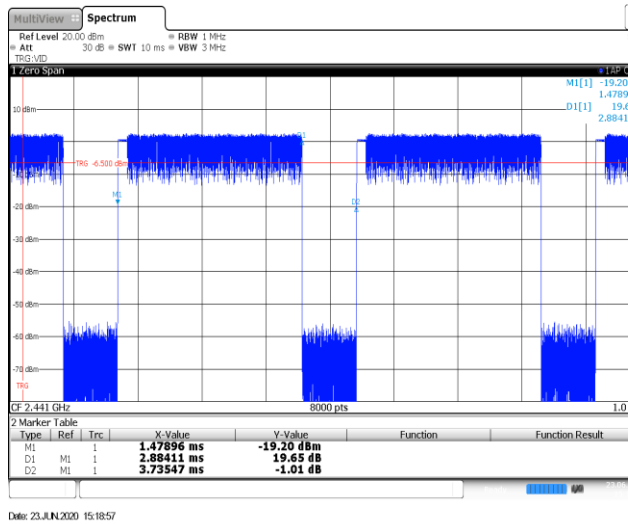
### GFSK



Ton time for single burst

Burst Quantity

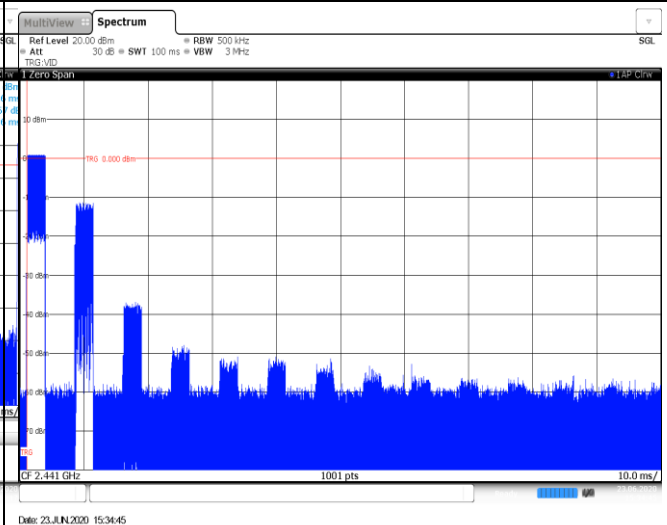
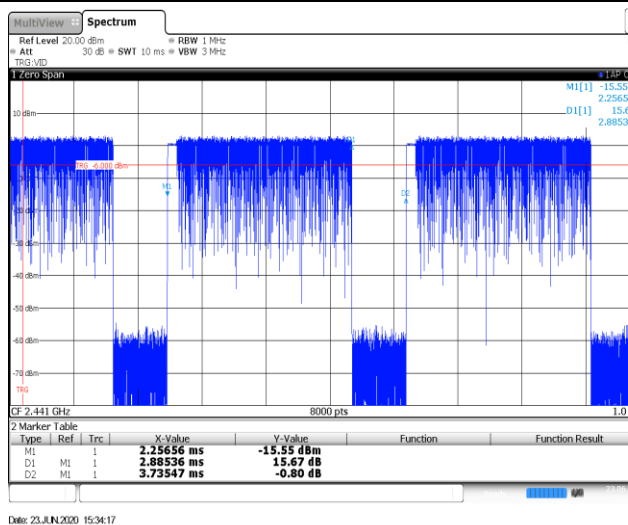
### $\pi/4$ DQPSK



Ton time for single burst

Burst Quantity

### 8DPSK



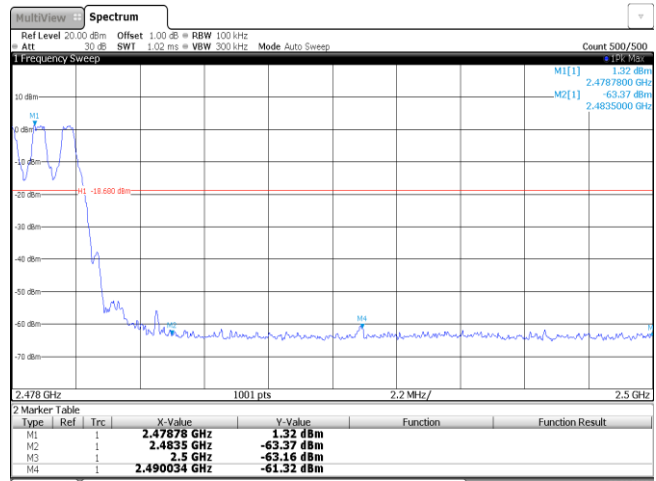
Ton time for single burst

Burst Quantity

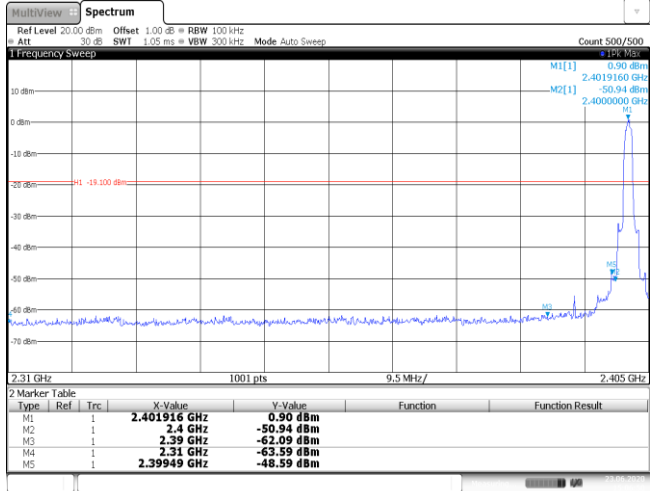
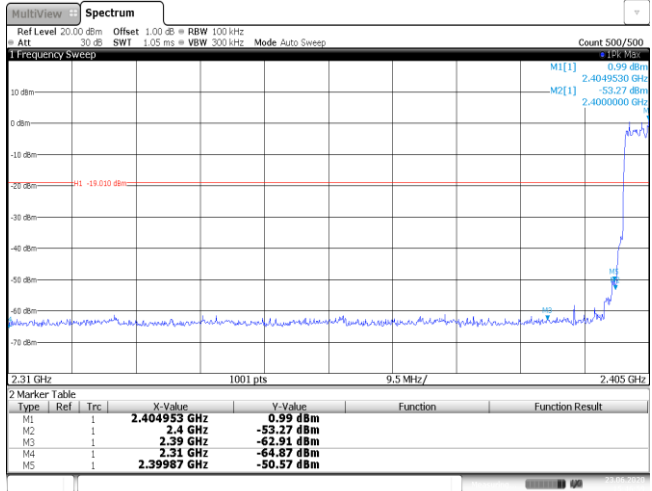
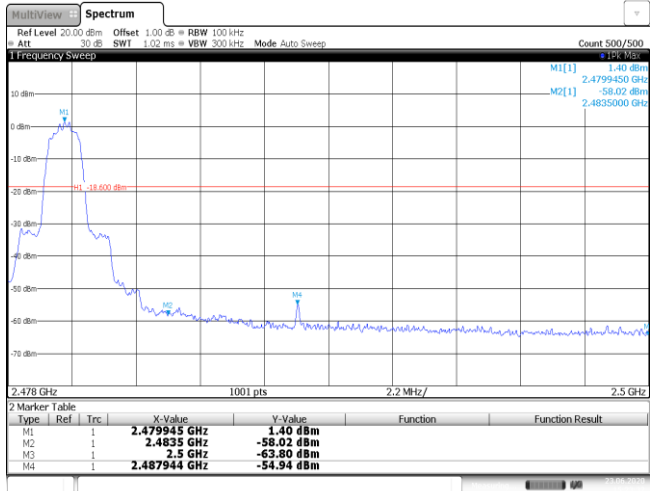
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK
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<p>CH00 Hopping mode</p>			
<p>CH78 No hopping mode</p>			

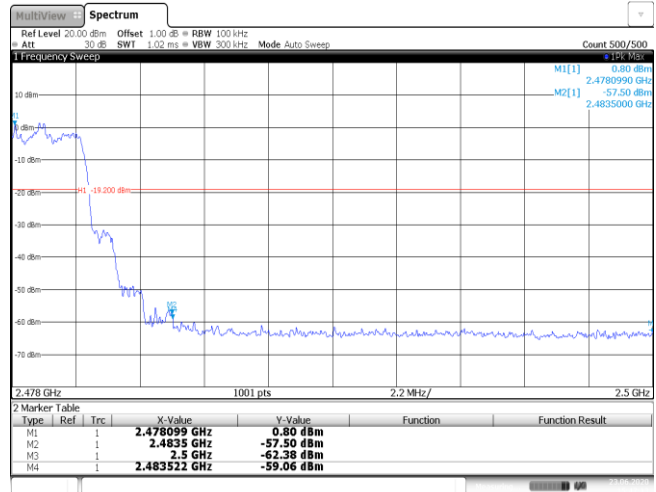
CH78  
Hopping mode



Date: 23.JUN.2020 15:44:43

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<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>2.401916 GHz</td> <td>0.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.09 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>2.39949 GHz</td> <td>-48.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:06:50</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	0.99 dBm			M2	1		2.4 GHz	-50.94 dBm			M3	1		2.39 GHz	-62.09 dBm			M4	1		2.31 GHz	-63.59 dBm			M5	1		2.39949 GHz	-48.59 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401916 GHz	0.99 dBm																																									
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<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>1</td> <td></td> <td>2.404953 GHz</td> <td>0.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39987 GHz</td> <td>-50.57 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:46:58</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	0.99 dBm			M2	1		2.4 GHz	-53.27 dBm			M3	1		2.39 GHz	-62.91 dBm			M4	1		2.31 GHz	-64.87 dBm			M5	1		2.39987 GHz	-50.57 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404953 GHz	0.99 dBm																																									
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<p>CH78 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>2.479945 GHz</td> <td>1.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-58.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-63.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.487944 GHz</td> <td>-54.94 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:23:32</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479945 GHz	1.40 dBm			M2	1		2.4835 GHz	-58.02 dBm			M3	1		2.5 GHz	-63.80 dBm			M4	1		2.487944 GHz	-54.94 dBm									
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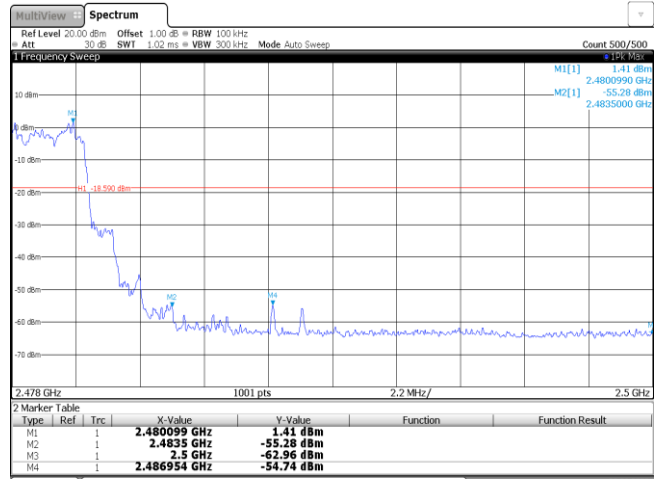
CH78  
Hopping mode



Date: 23 JUN 2020 15:47:13

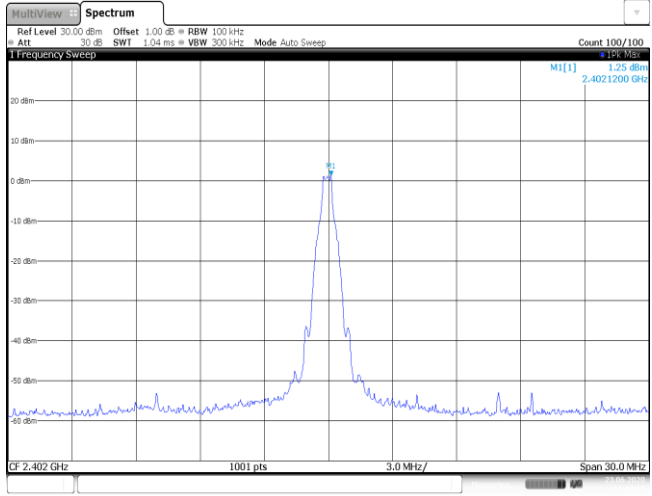
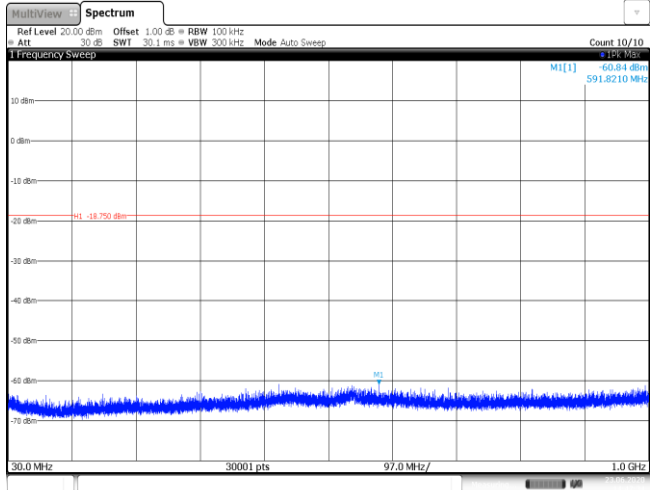
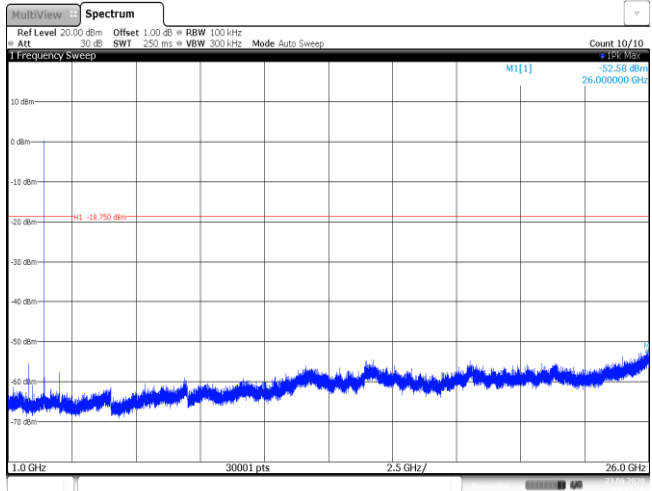
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	<p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402105 GHz</td> <td>0.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-47.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-48.01 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23.JUN.2020 15:27:30</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	0.94 dBm			M2	1		2.4 GHz	-47.31 dBm			M3	1		2.39 GHz	-62.83 dBm			M4	1		2.31 GHz	-64.66 dBm			M5	1		2.399965 GHz	-48.01 dBm		
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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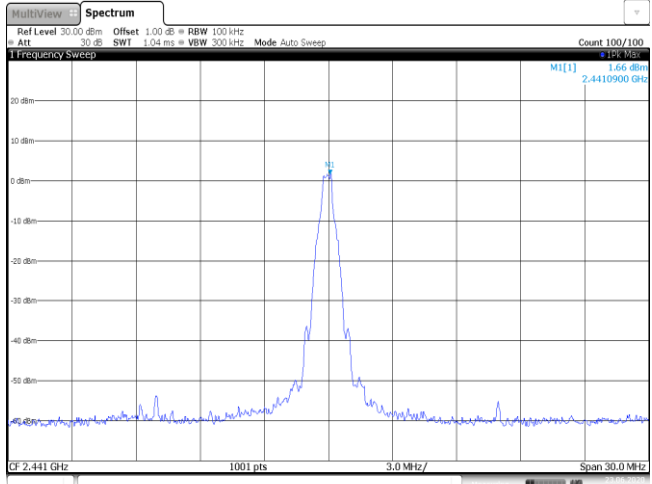
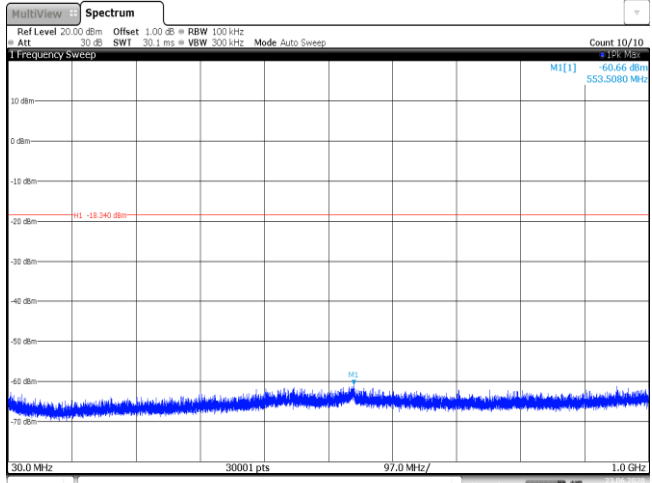
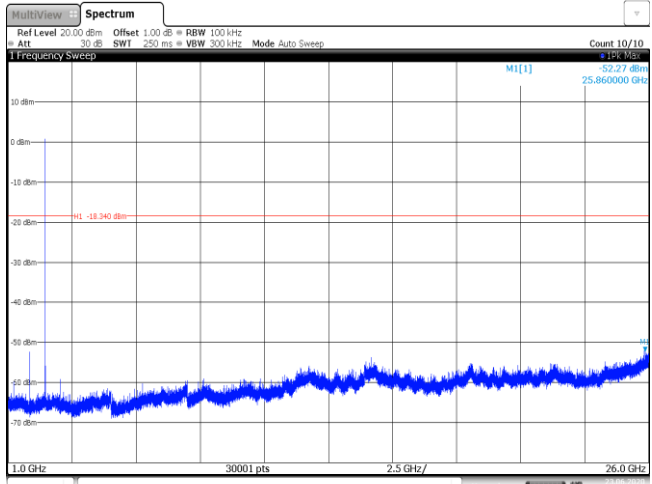
CH78  
Hoppig mode

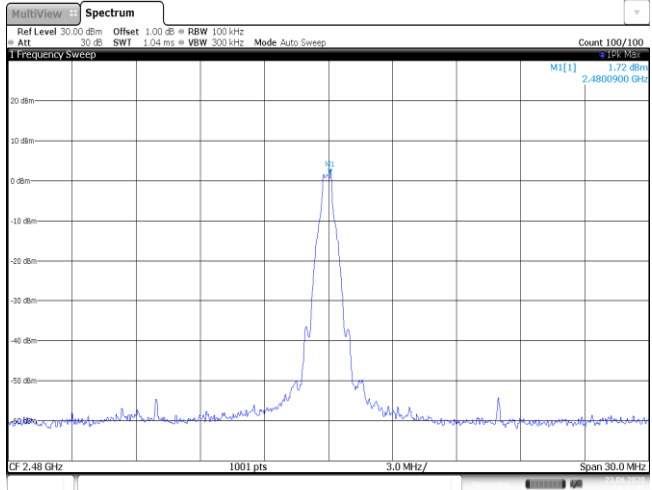
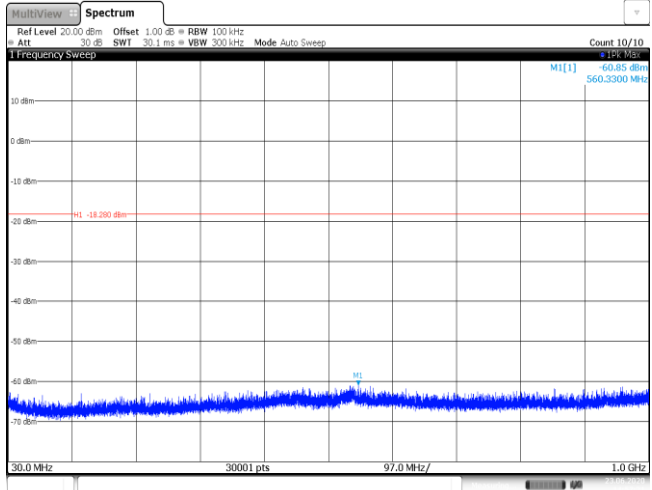
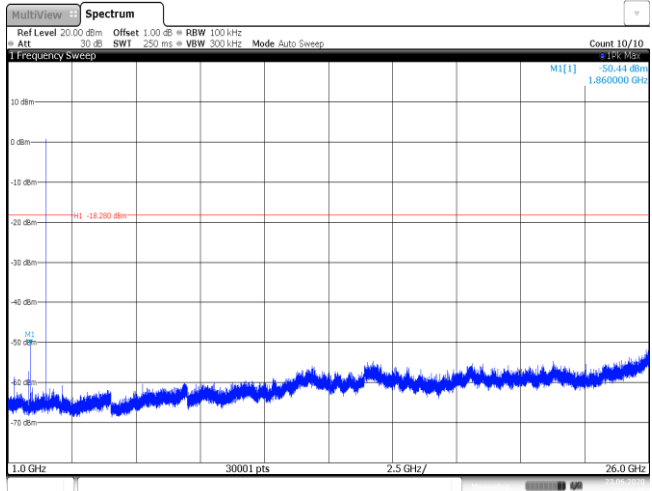


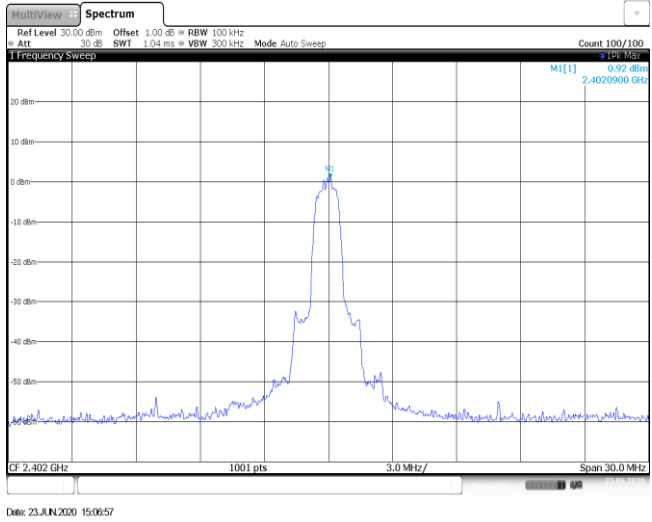
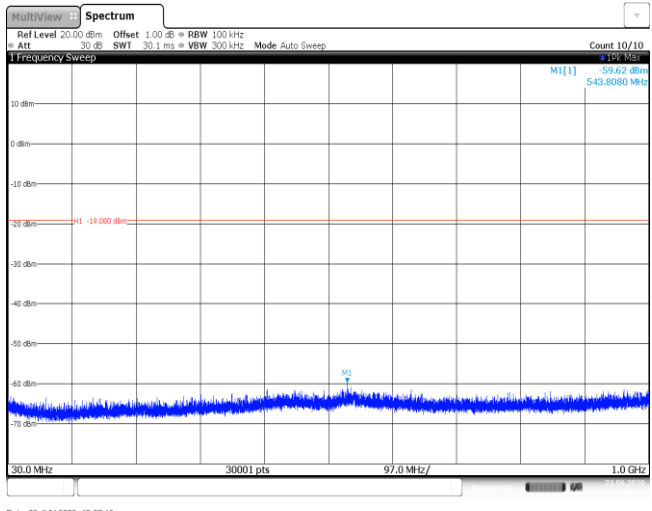
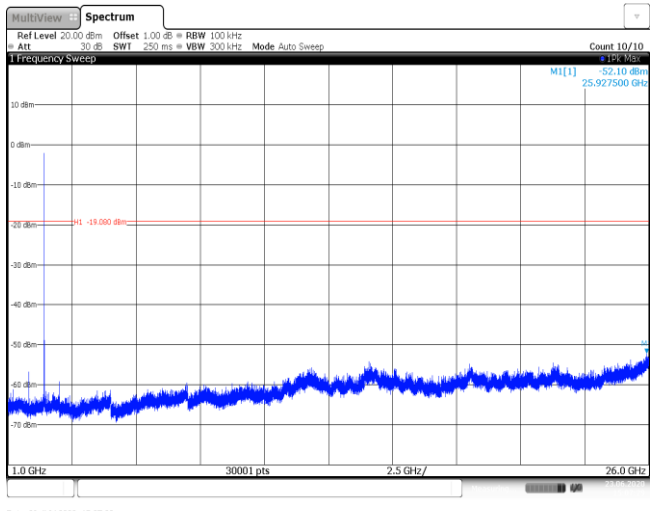
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Test Item:	Spurious Emission	Modulation type:	GFSK
<p>CH00 Reference level</p>	 <p>Date: 23.JUN.2020 14:47:12</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 23.JUN.2020 14:47:34</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 23.JUN.2020 14:47:50</p>		

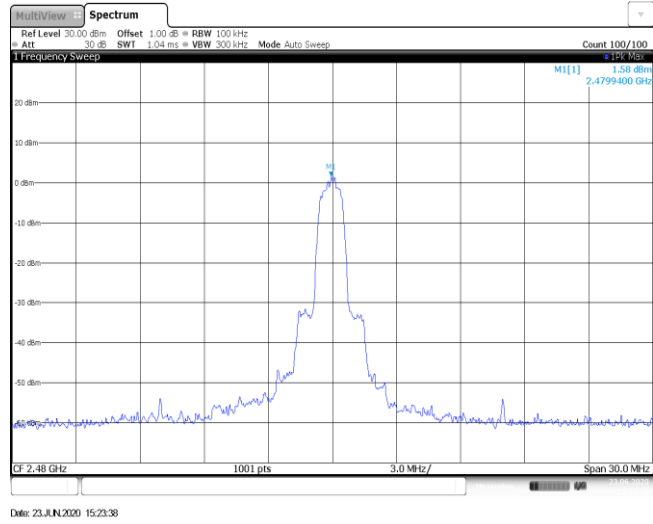
<p>CH39 Reference level</p>	 <p>The spectrum plot shows a single sharp peak at 2.441 GHz. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. A measurement cursor M1[1] is positioned at the peak, showing a value of 1.66 dBm. The plot title is 'Spectrum' and the date is 23 JUN 2020 14:55:08.</p>
<p>CH39 30MHz~1000MHz</p>	 <p>The spectrum plot shows a wideband noise floor from 30 MHz to 1000 MHz. The y-axis ranges from -70 to 10 dBm. A measurement cursor M1[1] is placed on the noise floor, showing a value of -60.66 dBm. The plot title is 'Spectrum' and the date is 23 JUN 2020 14:55:24.</p>
<p>CH39 1GHz~26GHz</p>	 <p>The spectrum plot shows a wideband noise floor from 1 GHz to 26 GHz. The y-axis ranges from -70 to 10 dBm. A measurement cursor M1[1] is placed on the noise floor, showing a value of -52.27 dBm. The plot title is 'Spectrum' and the date is 23 JUN 2020 14:55:40.</p>

<p>CH78 Reference level</p>	 <p>The plot shows a single sharp peak at 2.48 GHz with a level of approximately 10 dBm. The y-axis ranges from -60 dBm to 20 dBm, and the x-axis ranges from 2.48 GHz to 3.0 MHz. Parameters include Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 30.0 MHz.</p>
<p>CH78 30MHz~1000MHz</p>	 <p>The plot shows a noise floor across the 30 MHz to 1000 MHz range, with levels between -60 dBm and -70 dBm. A red horizontal line is drawn at -18.280 dBm. Parameters include Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 30.0 MHz.</p>
<p>CH78 1GHz~26GHz</p>	 <p>The plot shows a noise floor across the 1 GHz to 26 GHz range, with levels between -60 dBm and -70 dBm. A red horizontal line is drawn at -18.280 dBm. Parameters include Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 1.0 GHz.</p>

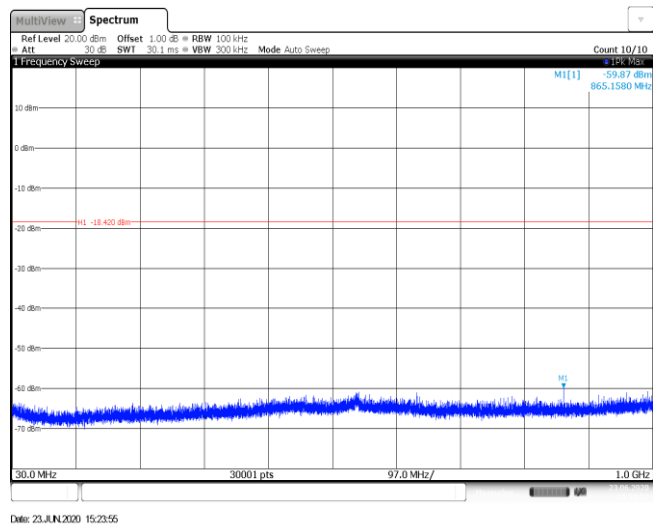
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 2.4020900 GHz -3.92 dBm Date: 23 JUN 2020 15:06:57</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] 543.8080 MHz -59.62 dBm MI[1] -19.00 dBm Date: 23 JUN 2020 15:07:13</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] 25.927500 GHz -52.10 dBm MI[1] -19.00 dBm Date: 23 JUN 2020 15:07:29</p>		

<p>CH39 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 1.65 dBm 2.4409400 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 23.JUN.2020 15:20:05</p>
<p>CH39 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWI 20.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -60.62 dBm 552.8610 MHz MI -18.250 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 23.JUN.2020 15:20:21</p>
<p>CH39 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -52.49 dBm 25.955803 GHz MI -18.250 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 23.JUN.2020 15:20:38</p>

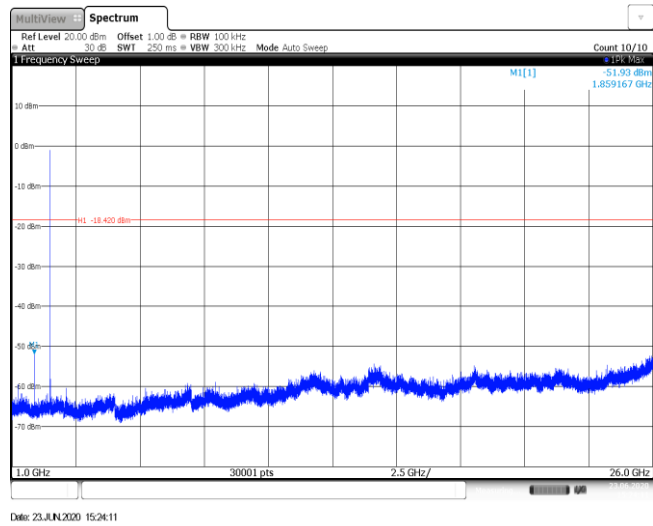
CH78  
Reference level

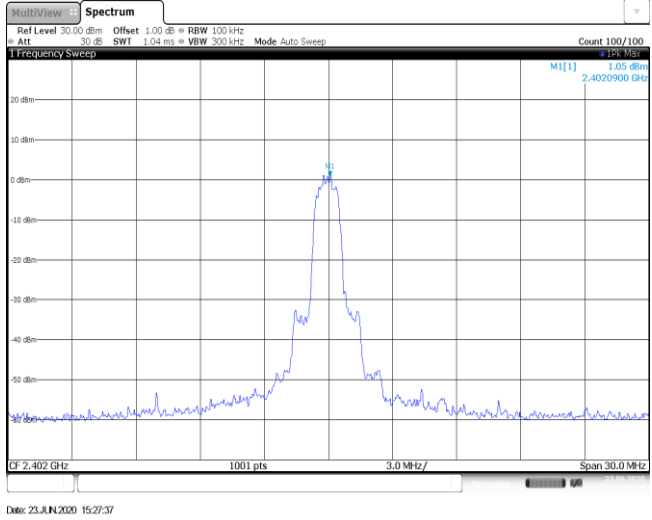
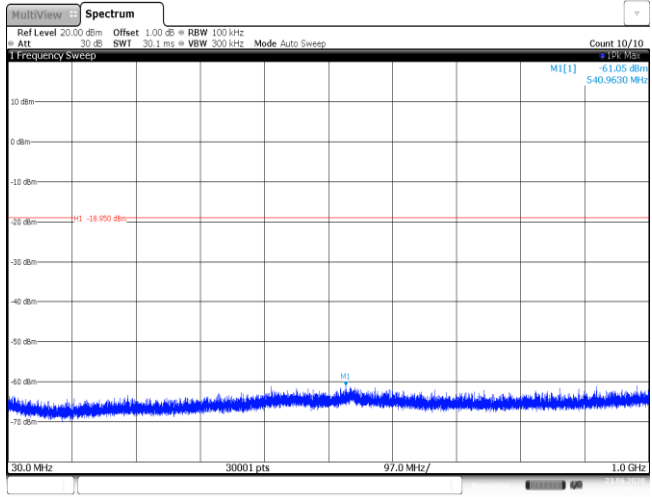
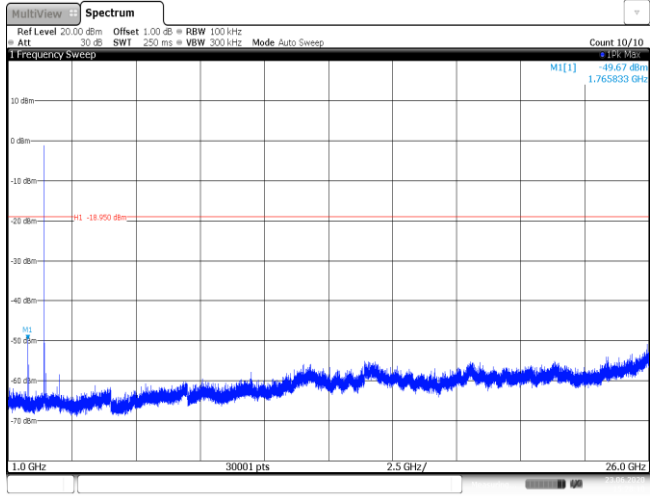


CH78  
30MHz~1000MHz

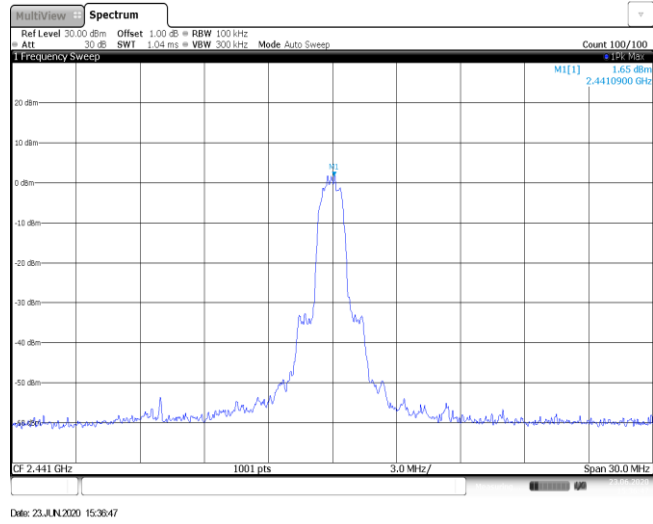


CH78  
1GHz~26GHz

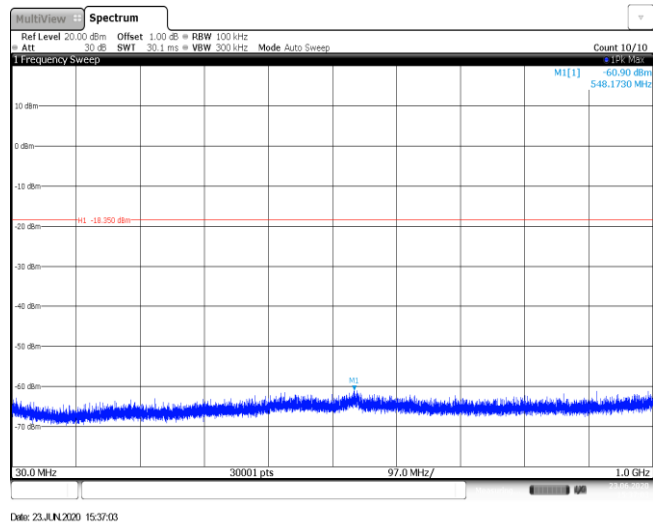


Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Date: 23.JUN.2020 15:27:37</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 23.JUN.2020 15:27:53</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 23.JUN.2020 15:28:10</p>		

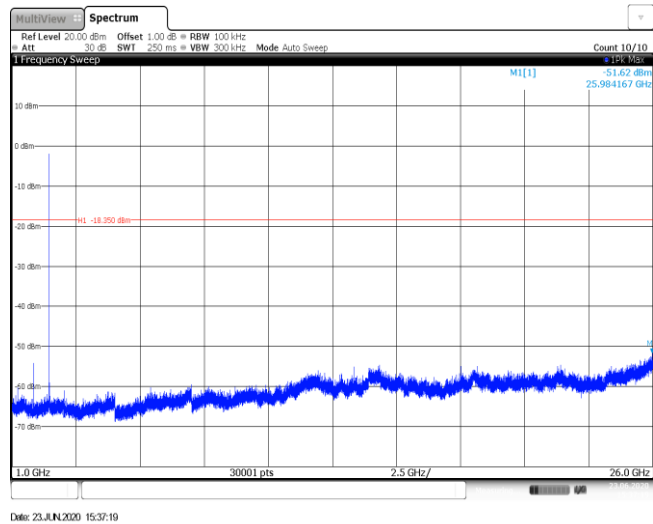
CH39  
Reference level



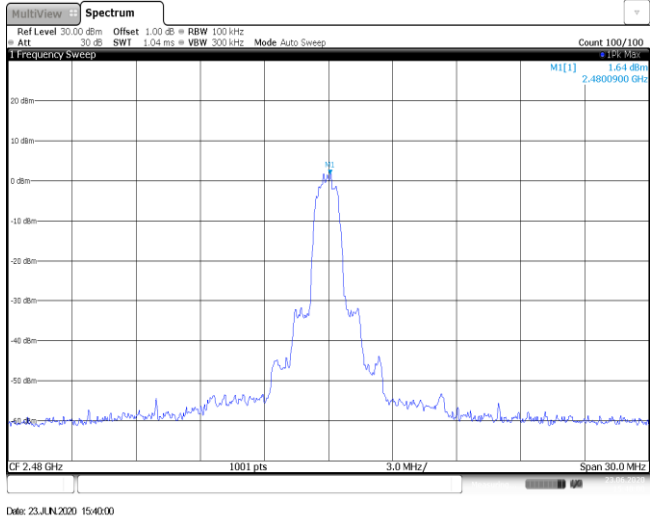
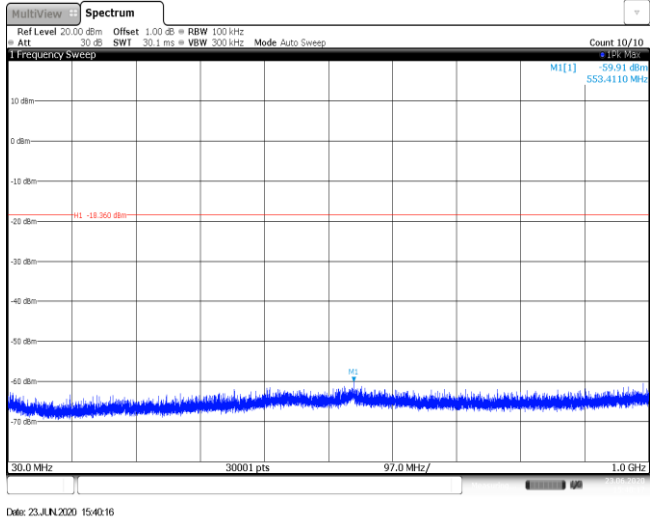
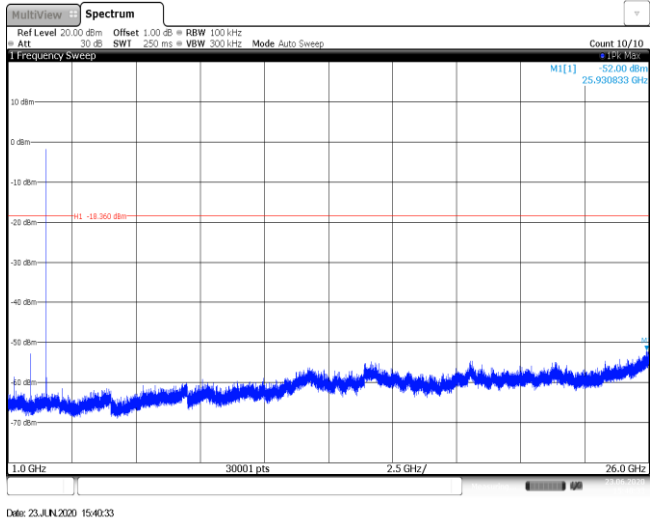
CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz





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

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