

APPENDIX REPORT

Project No.	SHT2005010201EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20050102001	Model No.	L14WB2BK
Start test date	2020/6/1	Finish date	2020/6/1
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	Auditor	<i>William.wang</i>

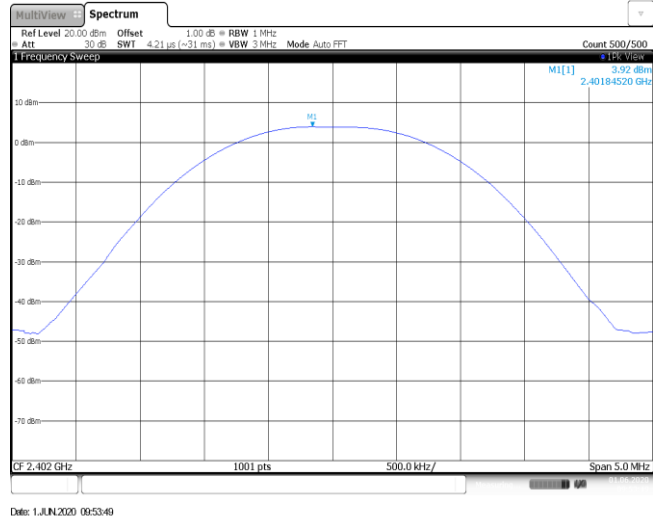
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	3.92	3.90	≤ 30.00	Pass
	39	3.83	3.81		
	78	3.92	3.90		
π/4DQPSK	00	5.68	4.92	≤ 21.00	Pass
	39	5.32	4.68		
	78	5.50	4.85		
8DPSK	00	6.04	5.37	≤ 21.00	Pass
	39	6.01	5.33		
	78	5.64	4.93		

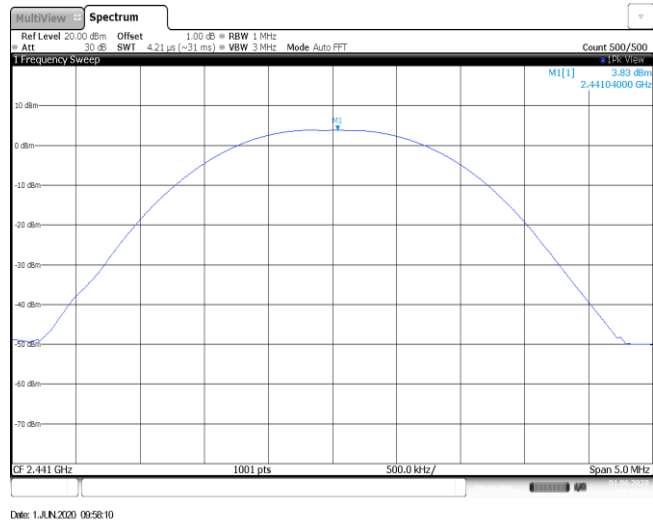
Modulation Type: GFSK

CH00



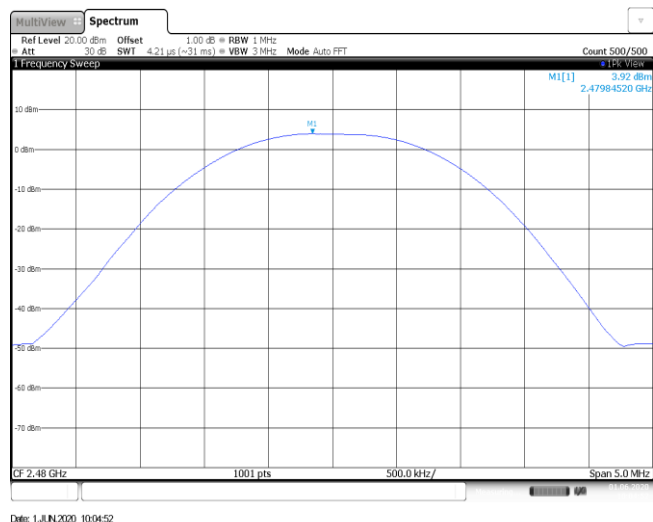
Date: 1.JUN.2020 09:53:49

CH39



Date: 1.JUN.2020 09:58:10

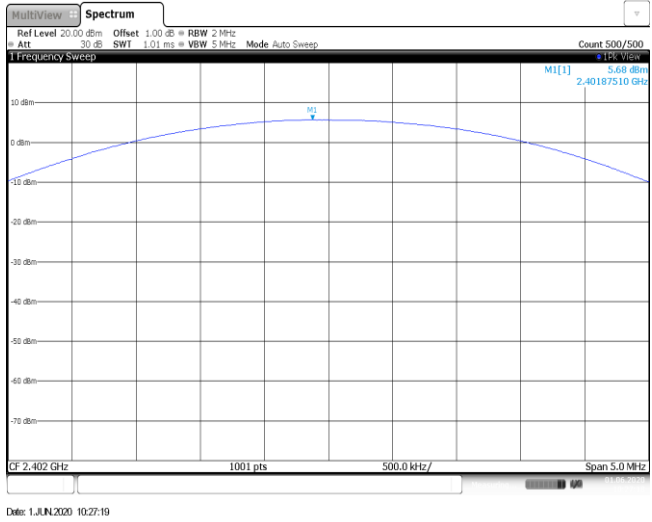
CH78



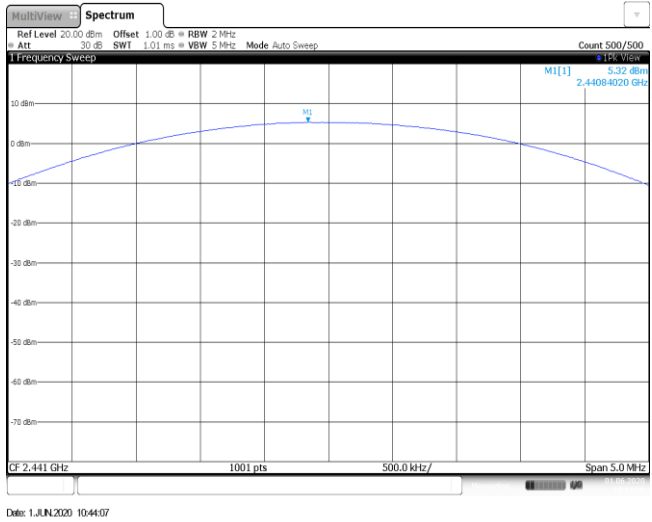
Date: 1.JUN.2020 10:04:52

Modulation Type: $\pi/4$ QPSK

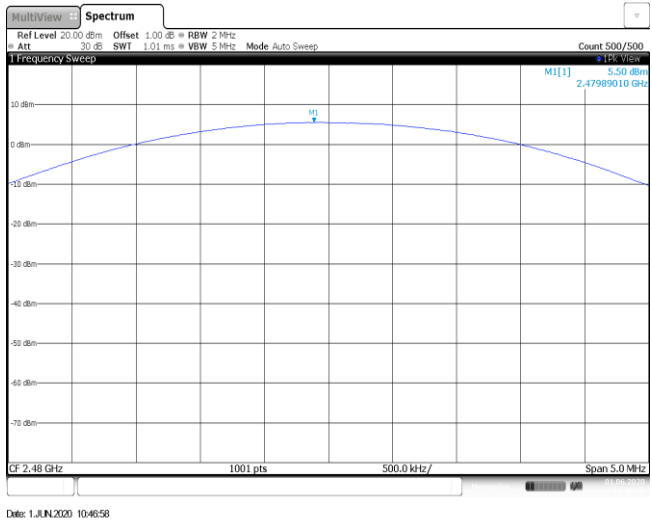
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CH39

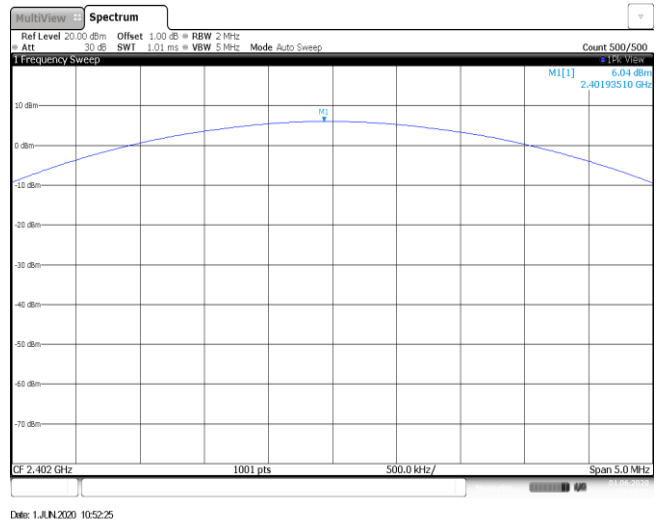


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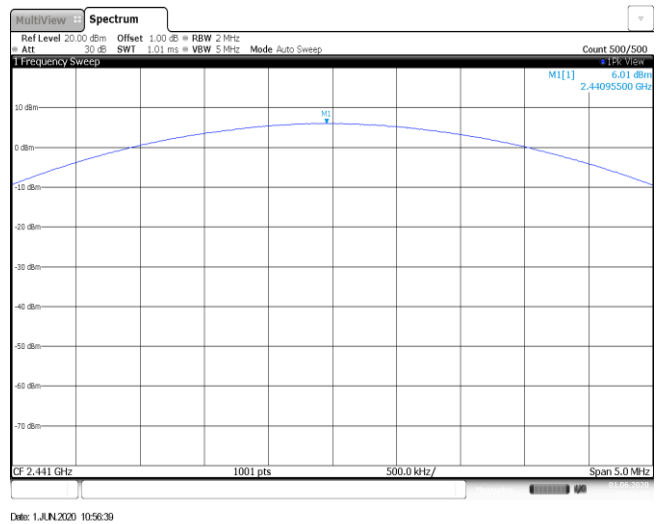


Modulation Type: 8DPSK

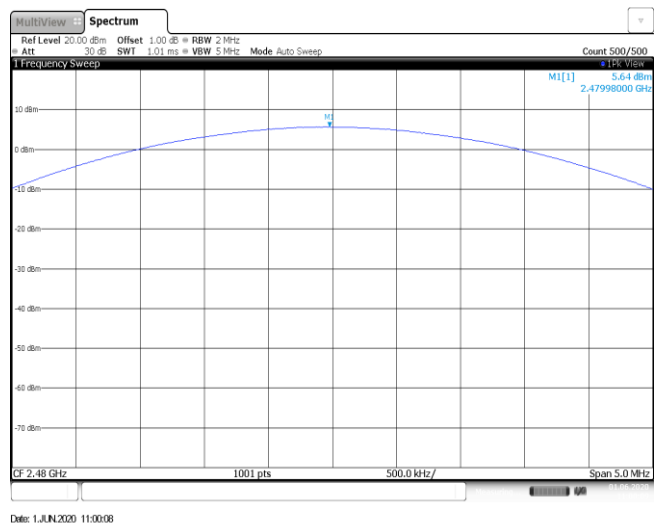
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CH39



CH78



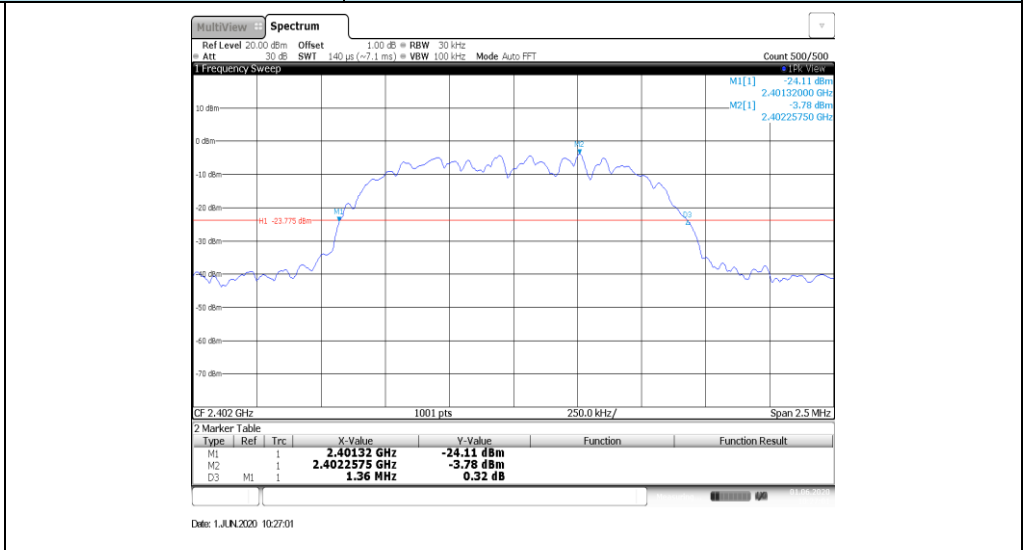
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	784.20	-	Pass
	39	784.20		
	78	696.80		
$\pi/4$ DQPSK	00	1360.00	-	Pass
	39	1360.00		
	78	1365.00		
8DPSK	00	1302.50	-	Pass
	39	1305.00		
	78	1320.00		

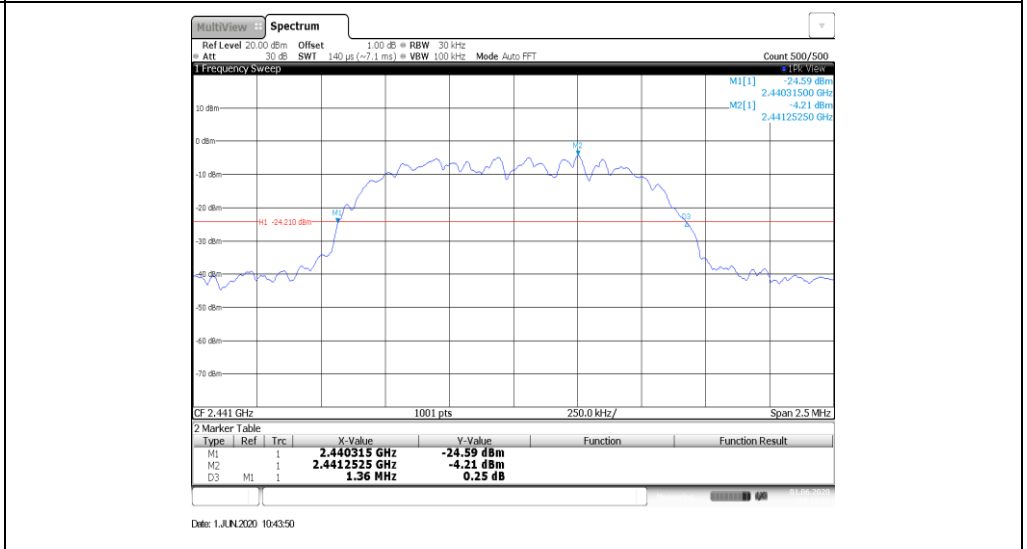
Modulation Type:		GFSK																												
CH00	<p> Multiview Spectrum Ref Level 20.00 dBm Offset 30.00 dB SWI 419 μs (-0.3 ms) RBW 10 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep CF 2.402 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz M1[1] 4.51 dBm 2.40202250 GHz 2 Marker Table <table border="1"> <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>2.4020225 GHz</td> <td>-4.51 dBm</td> <td>dB</td> <td>25.178</td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4016633 GHz</td> <td>-24.03 dBm</td> <td>dB down BW</td> <td>784.20 kHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4024496 GHz</td> <td>-24.37 dBm</td> <td>Q Factor</td> <td>3063.0</td> </tr> </tbody> </table> Date: 1.JUN.2020 11:37:47 </p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4020225 GHz	-4.51 dBm	dB	25.178	T1	1		2.4016633 GHz	-24.03 dBm	dB down BW	784.20 kHz	T2	1		2.4024496 GHz	-24.37 dBm	Q Factor	3063.0
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CH78	<p> Multiview Spectrum Ref Level 20.00 dBm Offset 30.00 dB SWI 419 μs (-0.3 ms) RBW 10 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep CF 2.48 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz M1[1] 5.05 dBm 2.48002250 GHz 2 Marker Table <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>2.4800225 GHz</td> <td>-5.05 dBm</td> <td>dB</td> <td>25.048</td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4796633 GHz</td> <td>-24.70 dBm</td> <td>dB down BW</td> <td>696.80 kHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4803621 GHz</td> <td>-25.10 dBm</td> <td>Q Factor</td> <td>3559.1</td> </tr> </tbody> </table> Date: 1.JUN.2020 11:39:02 </p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4800225 GHz	-5.05 dBm	dB	25.048	T1	1		2.4796633 GHz	-24.70 dBm	dB down BW	696.80 kHz	T2	1		2.4803621 GHz	-25.10 dBm	Q Factor	3559.1
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T2	1		2.4803621 GHz	-25.10 dBm	Q Factor	3559.1																								

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

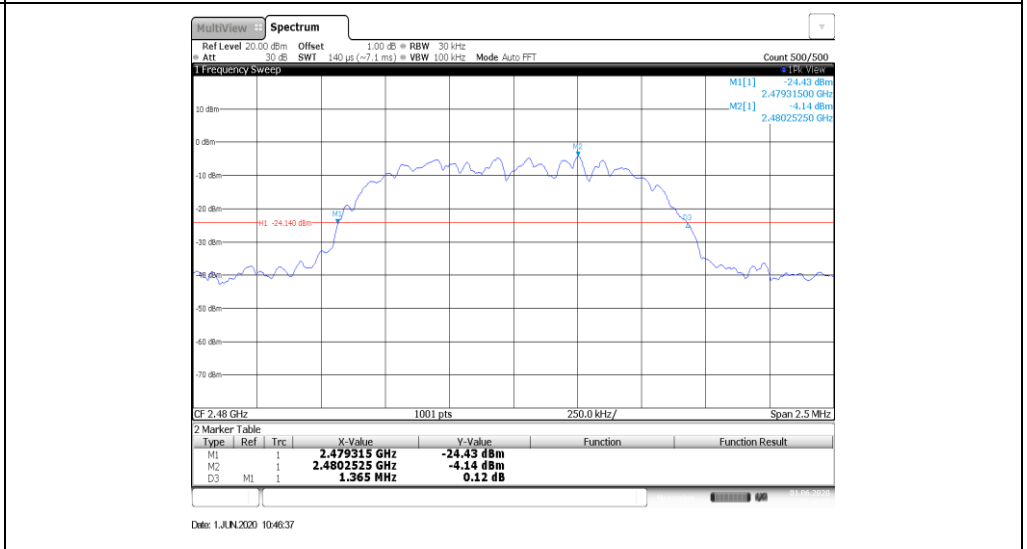
CH00



CH39

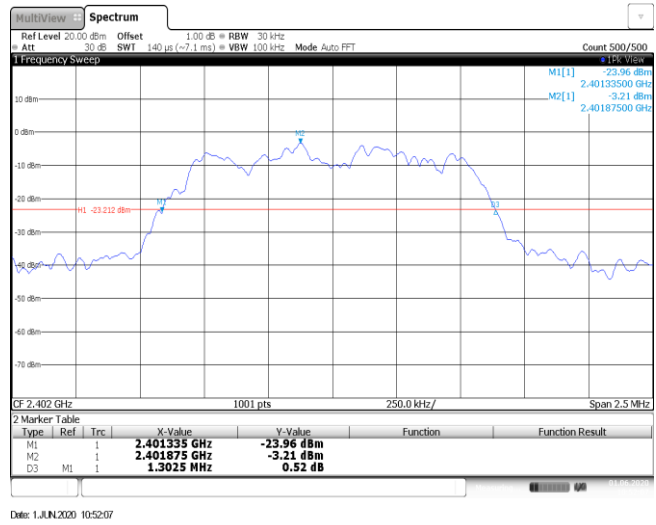


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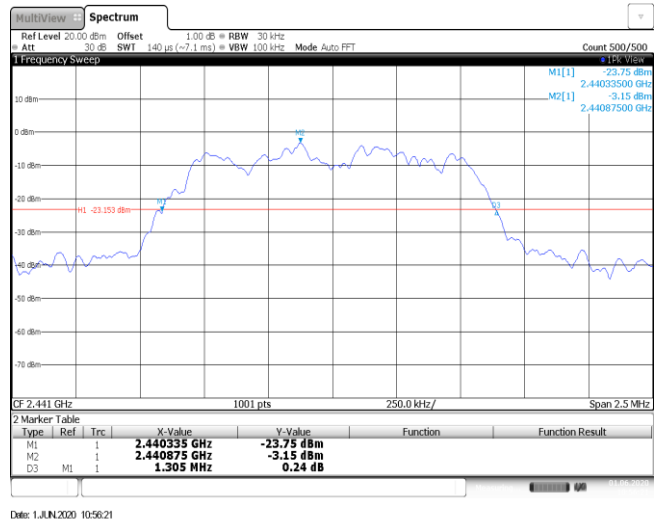


Modulation Type: 8DPSK

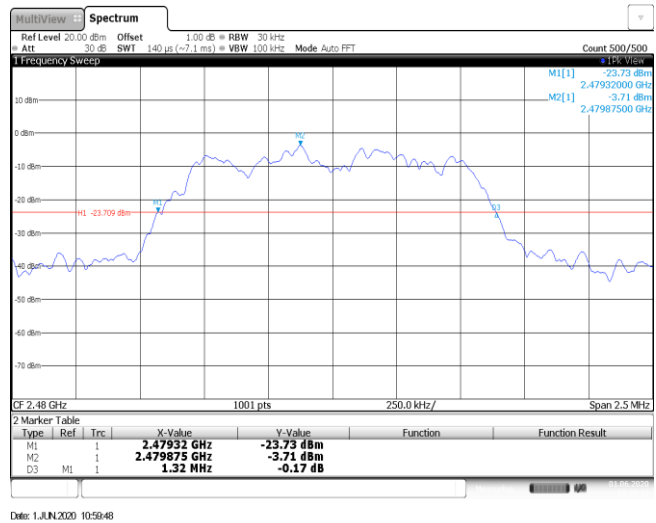
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CH39



CH78

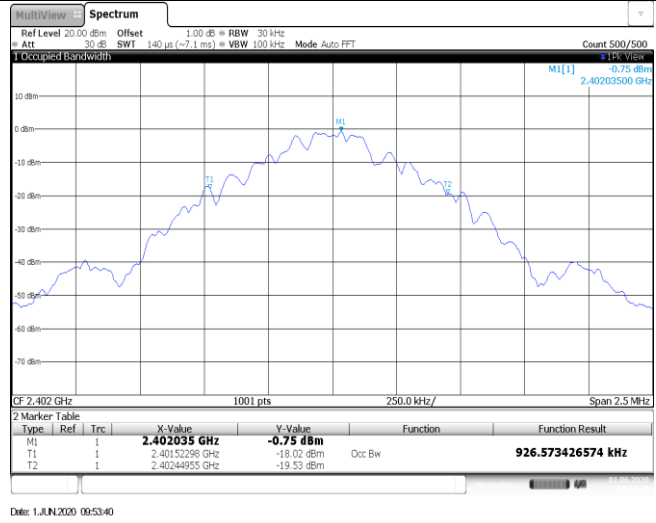


Appendix C: 99% Occupied Bandwidth

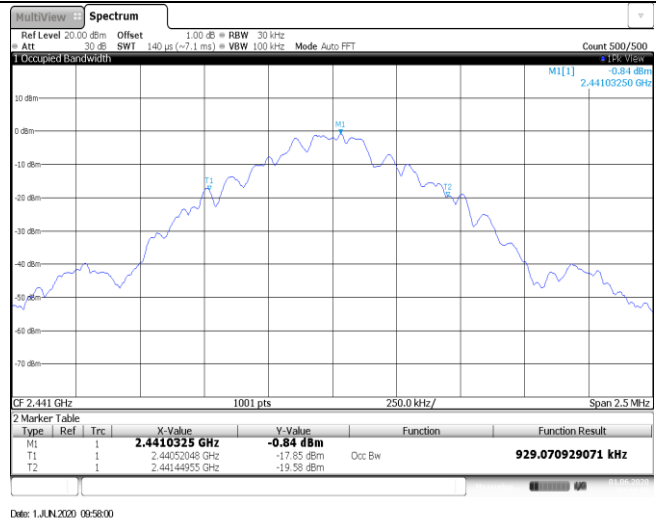
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.93	-	Pass
	39	0.93		
	78	0.93		
$\pi/4$ DQPSK	00	1.20	-	Pass
	39	1.20		
	78	1.20		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.19		

Modulation Type: GFSK

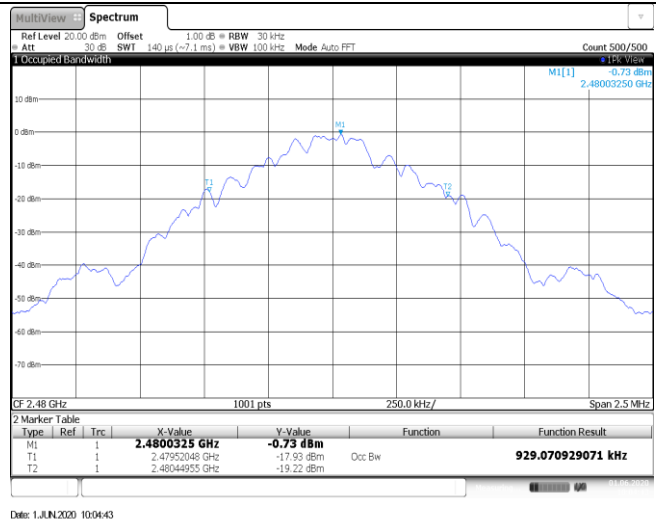
CH00



CH39

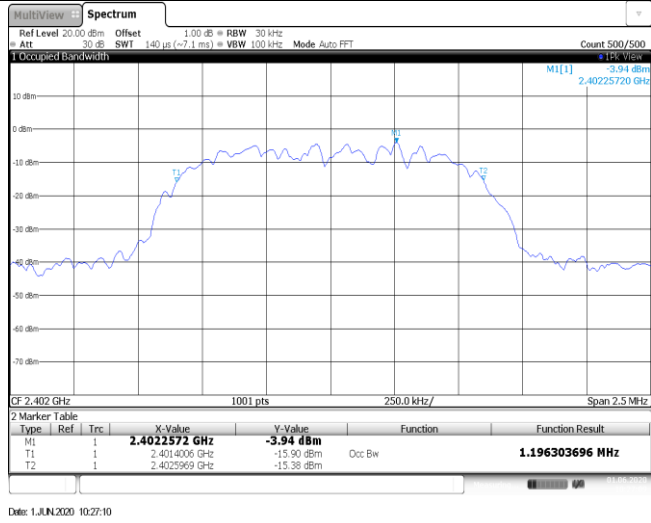


CH78



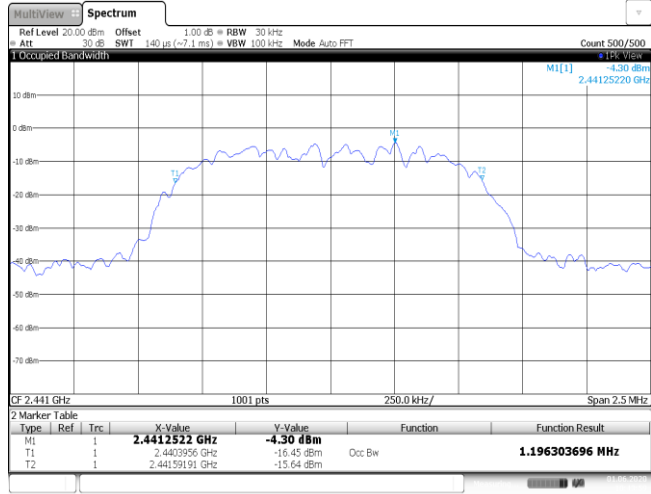
Modulation Type: **π /4DQPSK**

CH00



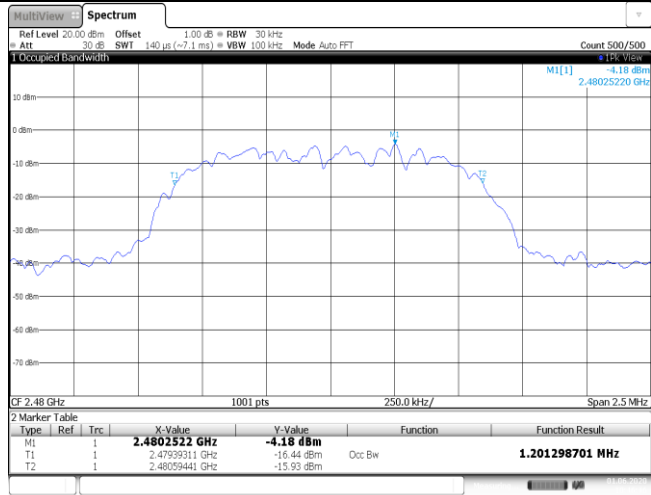
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CH39



Date: 1 JUN 2020 10:43:58

CH78



Date: 1 JUN 2020 10:46:46

Modulation Type: 8DPSK

CH00



Date: 1 JUN 2020 10:52:16

CH39



Date: 1 JUN 2020 10:56:30

CH78



Date: 1 JUN 2020 10:59:57

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥784.20	Pass
π/4DQPSK	39	1.00	≥910	Pass
8DPSK	39	1.00	≥880	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.

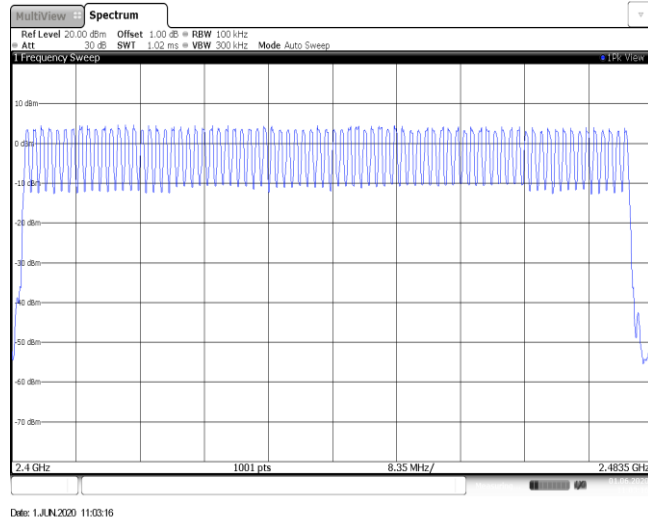
8DPSK limit = 2/3 * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

<p style="text-align: center;">GFSK</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (\approx7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M[1] -4.78 dBm 2.44103200 GHz D[1] 0.04 dB 1.00200 MHz 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 1.JUN.2020 09:57:04</p>
<p style="text-align: center;">$\pi/4$DQPSK</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (\approx7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M[1] -4.22 dBm 2.44125400 GHz D[1] 0.00 dB 999.00 kHz 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 1.JUN.2020 10:42:57</p>
<p style="text-align: center;">8DPSK</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 140 μs (\approx7.0 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M[1] -3.14 dBm 2.44087300 GHz D[1] 0.00 dB 1.00200 MHz 2.44 GHz 1001 pts 300.0 kHz/ 2.443 GHz Date: 1.JUN.2020 10:55:42</p>

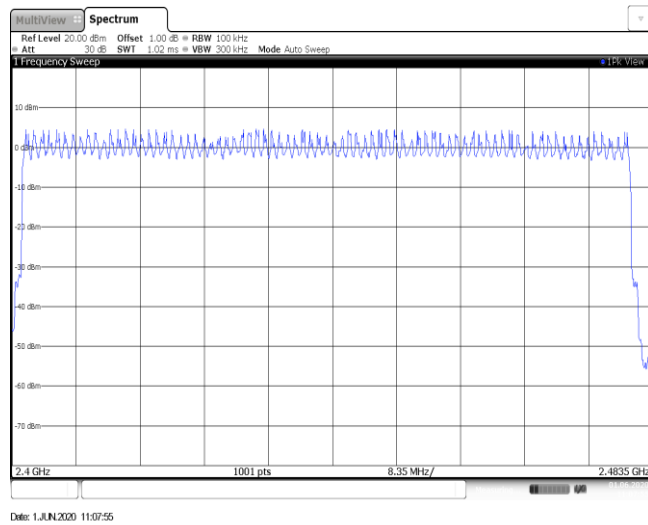
Appendix E: Hopping Channel Number

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

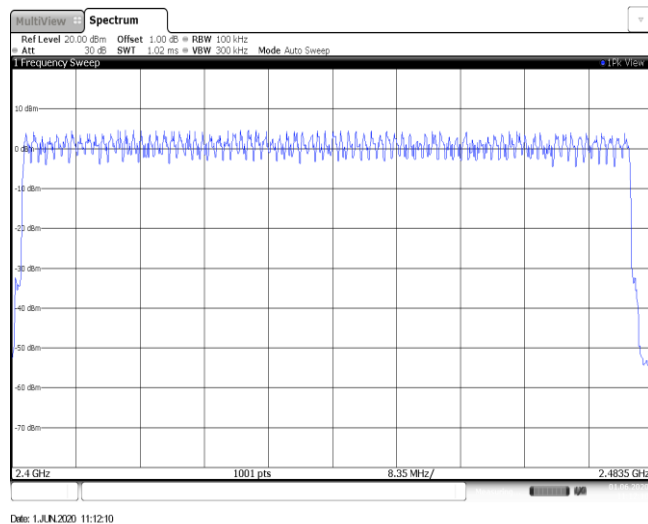
GFSK



$\pi/4$ DQPSK



8DPSK

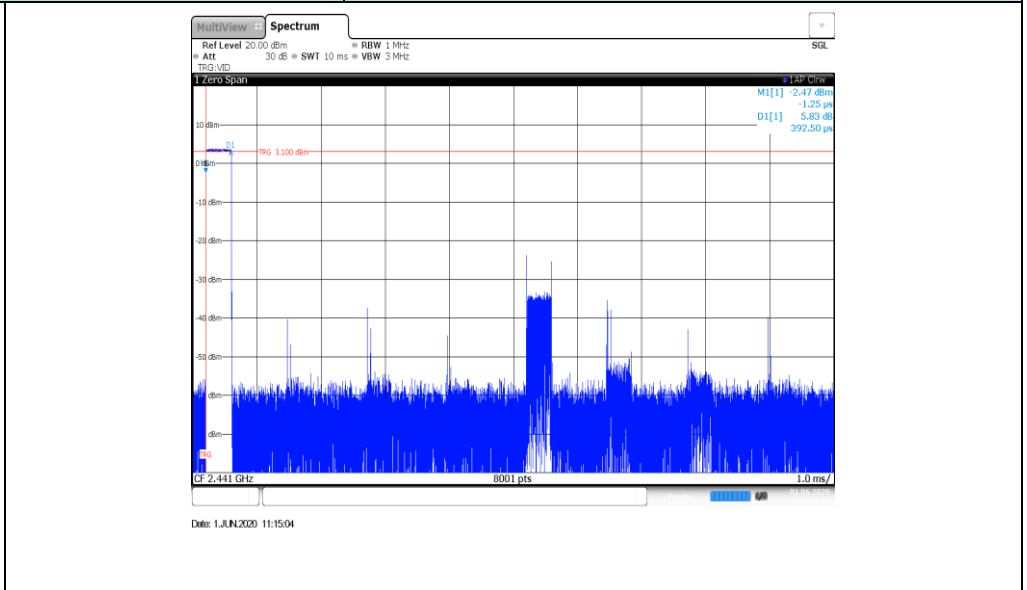


Appendix F: Dwell Time

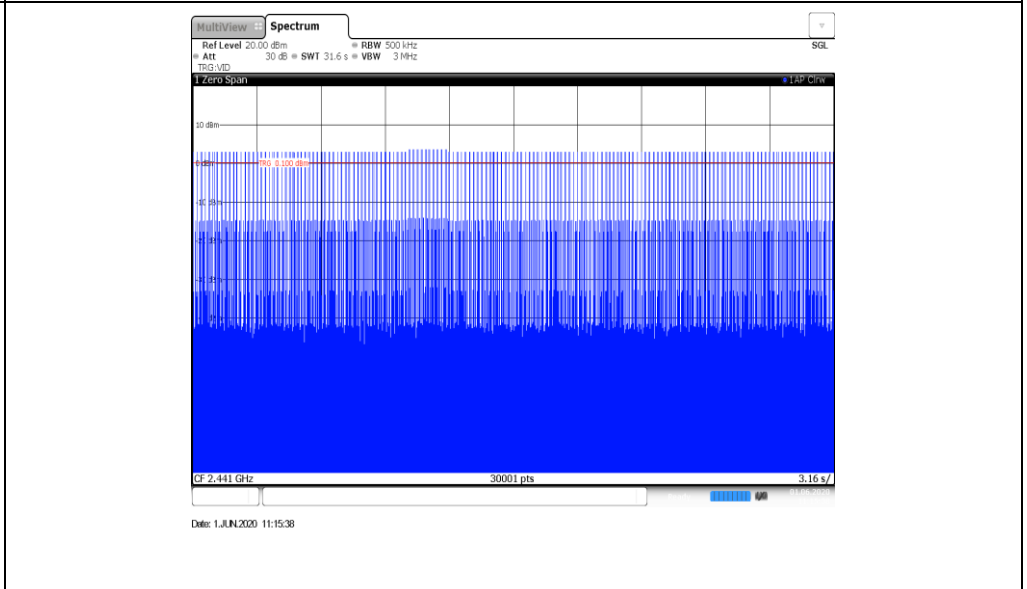
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	317	0.12	≤ 0.40	Pass
	DH3	1.65	157	0.26		
	DH5	2.90	104	0.30		
π/4DQPSK	2DH1	0.40	317	0.13	≤ 0.40	Pass
	2DH3	1.66	158	0.26		
	2DH5	2.90	99	0.29		
8DPSK	3DH1	0.40	319	0.13	≤ 0.40	Pass
	3DH3	1.65	161	0.27		
	3DH5	2.90	120	0.35		

Modulation Type: GFSK

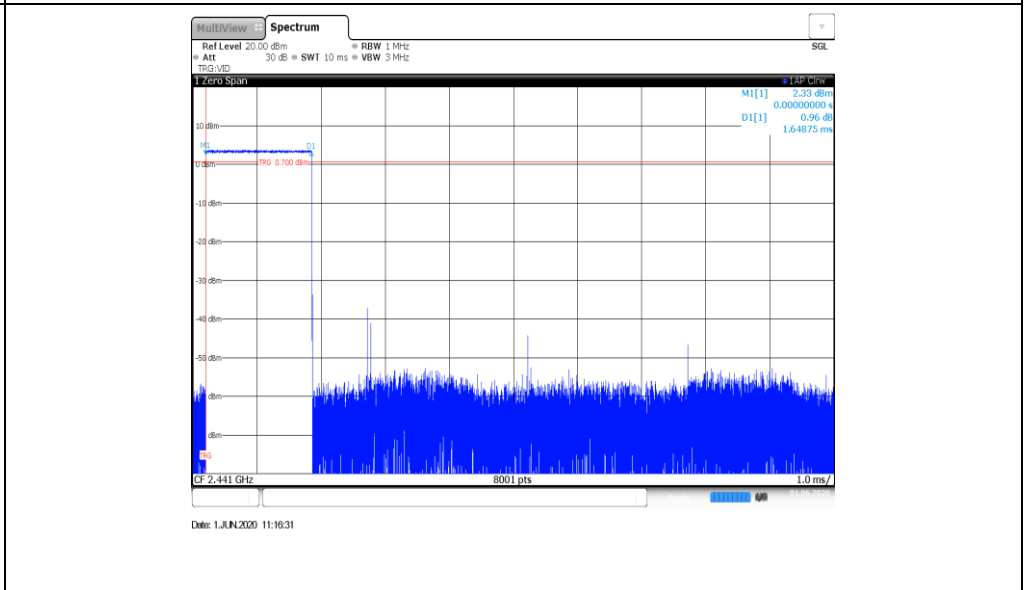
DH1
Burst width



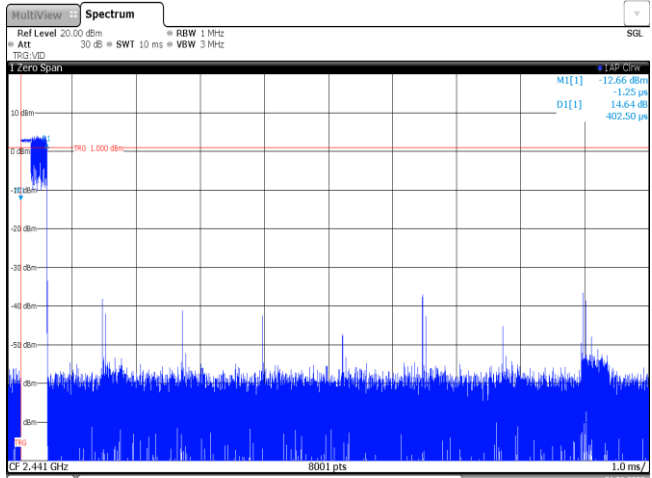
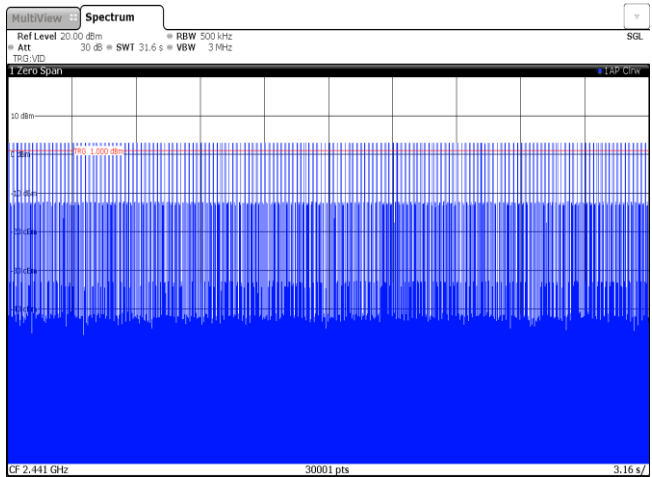
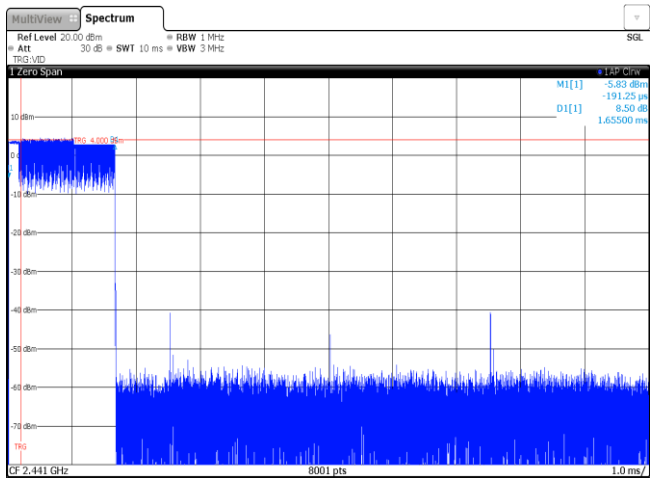
DH1
Burst number



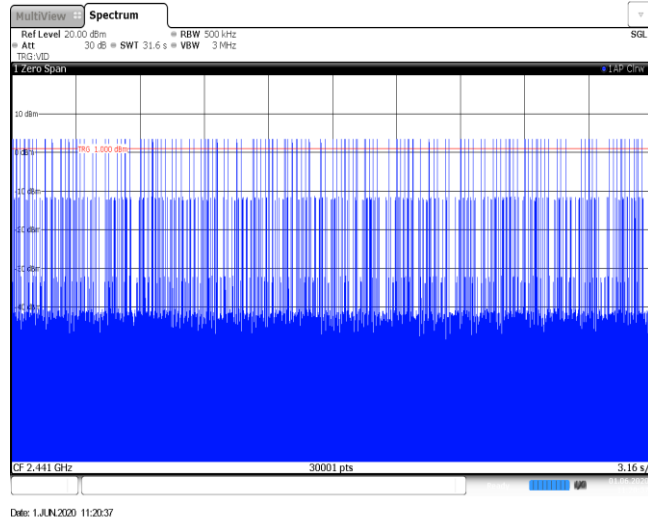
DH3
Burst width



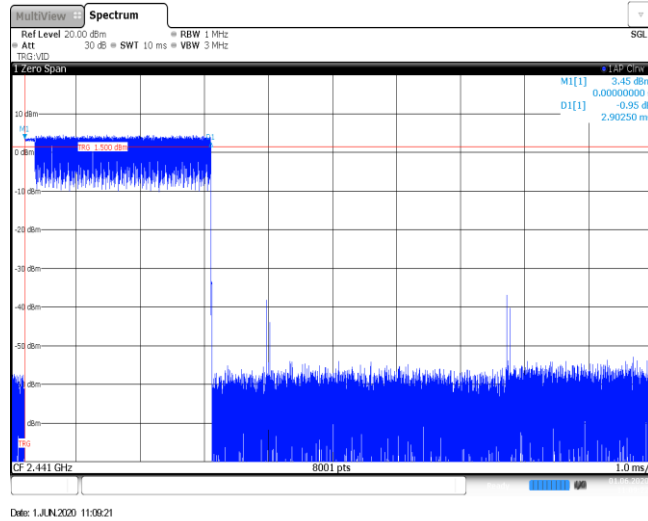
<p>DH3 Burst number</p>	
<p>DH5 Burst width</p>	
<p>DH5 Burst number</p>	

Modulation Type:	$\pi/4$ DQPSK
<p>2DH1 Burst width</p>	 <p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] -12.66 dBm D1[1] 14.64 dB 402.50 ps</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1.JUN.2020 11:18:21</p>
<p>2DH1 Burst number</p>	 <p>Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>M[1] -5.83 dBm D1[1] -191.25 ps 8.50 dB 1.65500 ms</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 1.JUN.2020 11:18:55</p>
<p>2DH3 Burst width</p>	 <p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M[1] -5.83 dBm D1[1] -191.25 ps 8.50 dB 1.65500 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 1.JUN.2020 11:20:03</p>

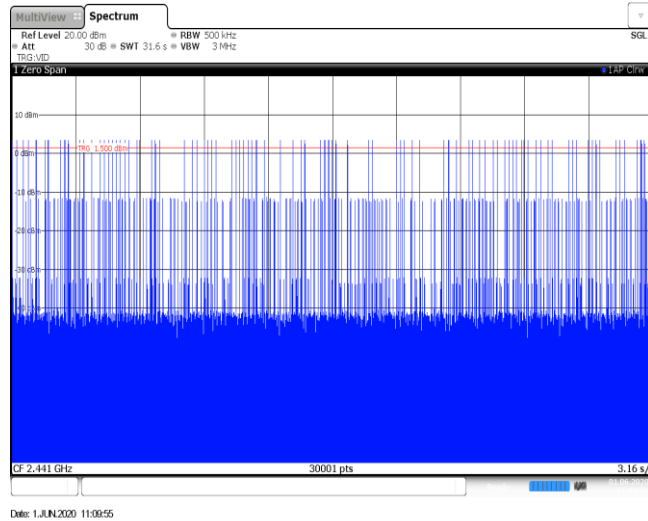
2DH3
Burst number



2DH5
Burst width

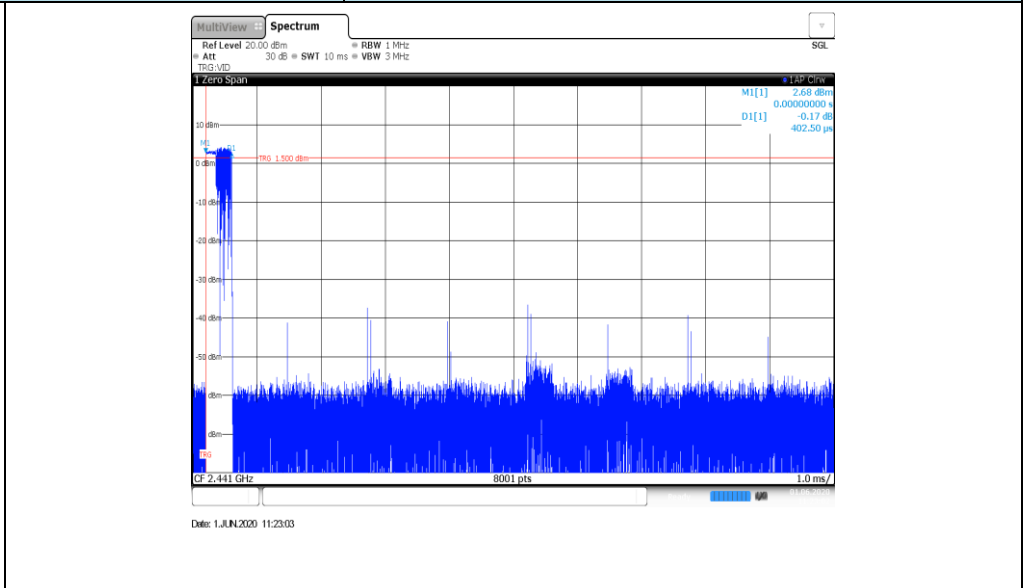


2DH5
Burst number

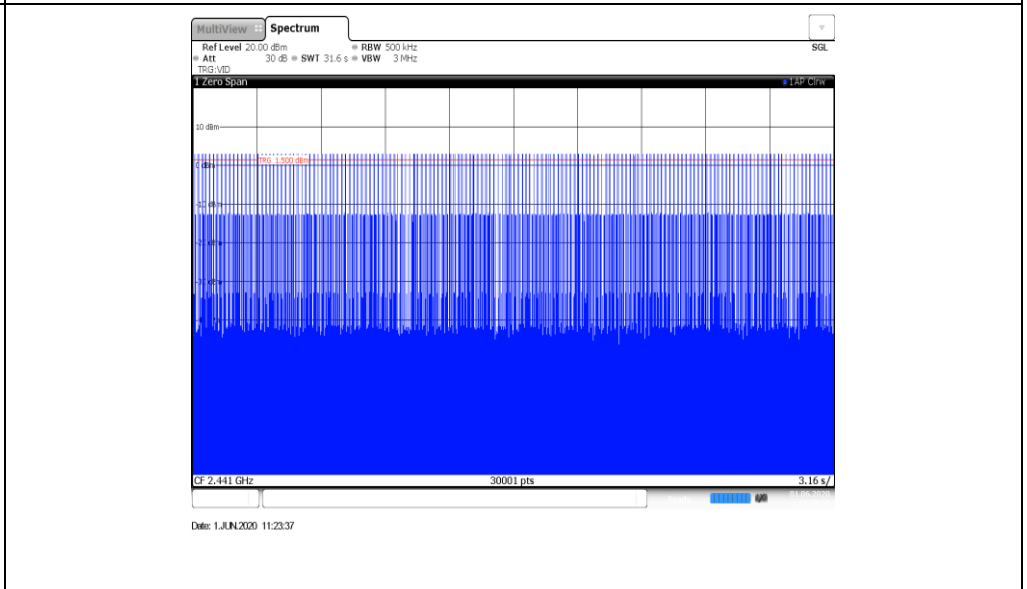


Modulation Type: 8DPSK

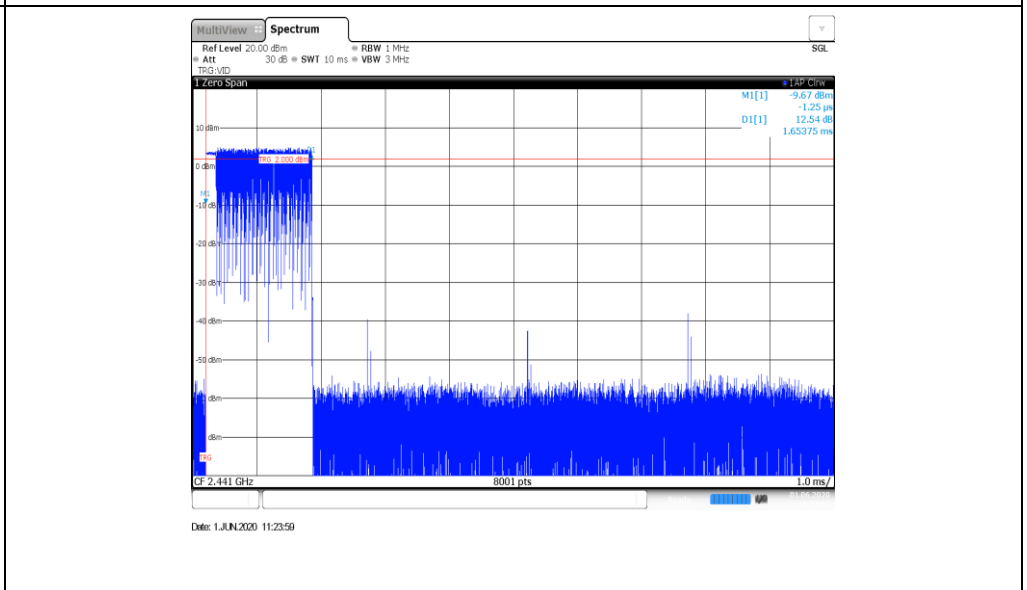
3DH1
Burst width

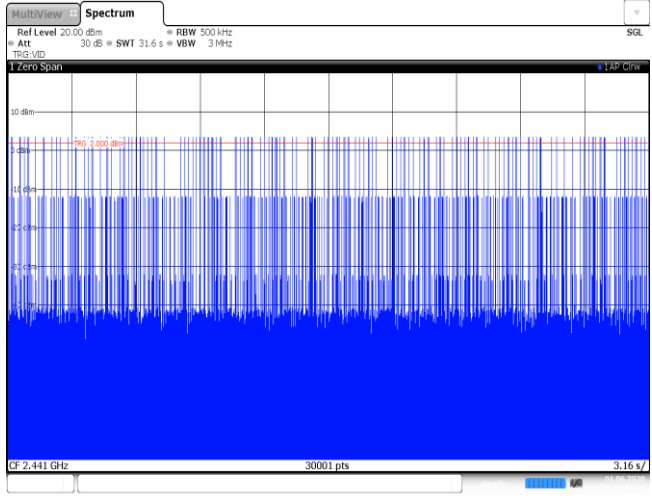
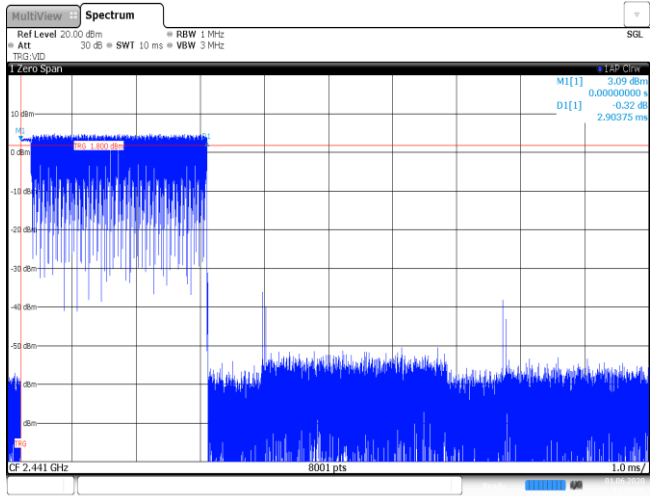
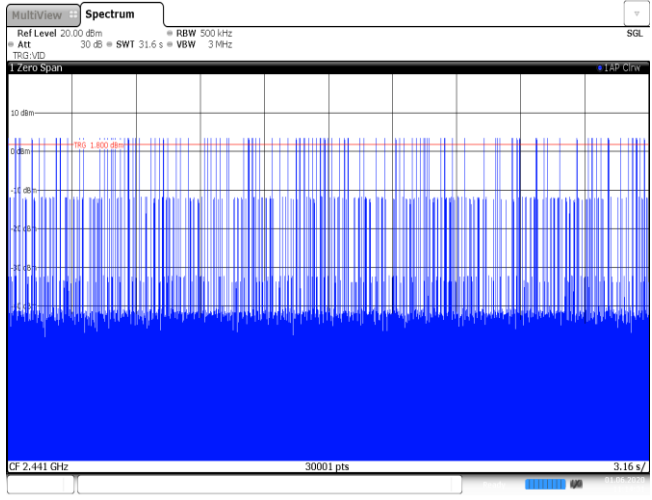


3DH1
Burst number



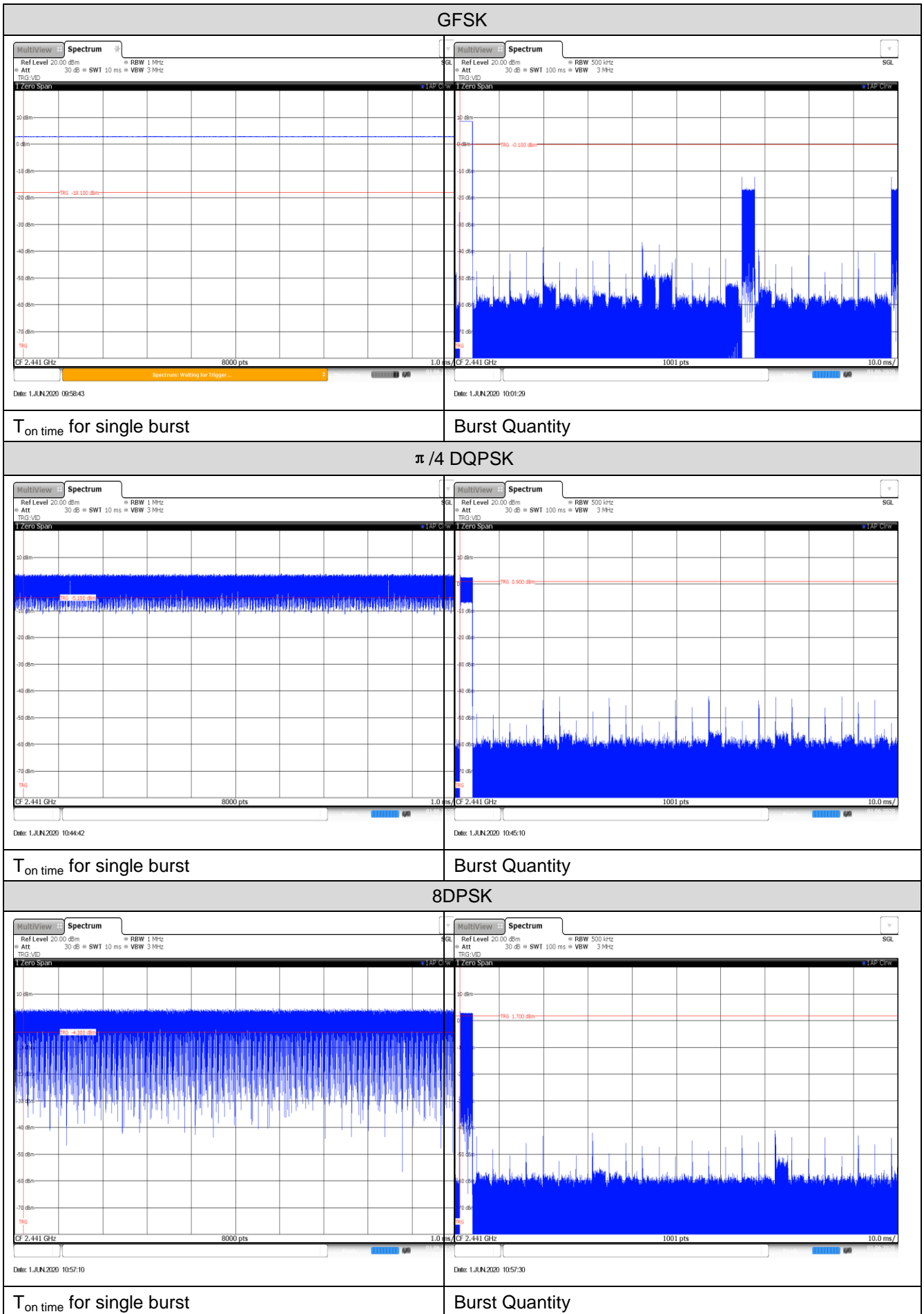
3DH3
Burst width



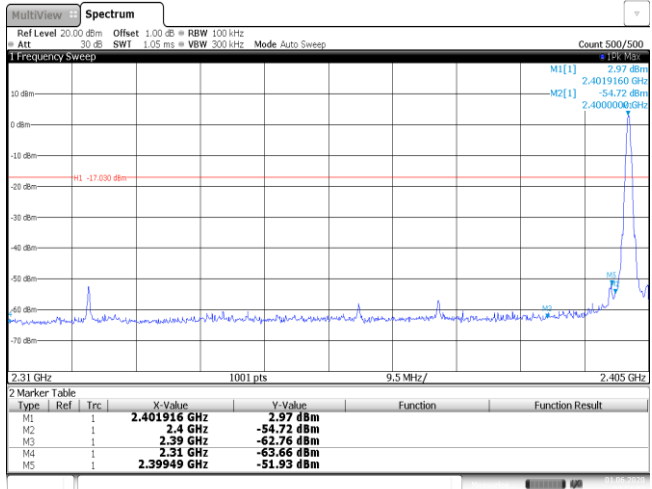
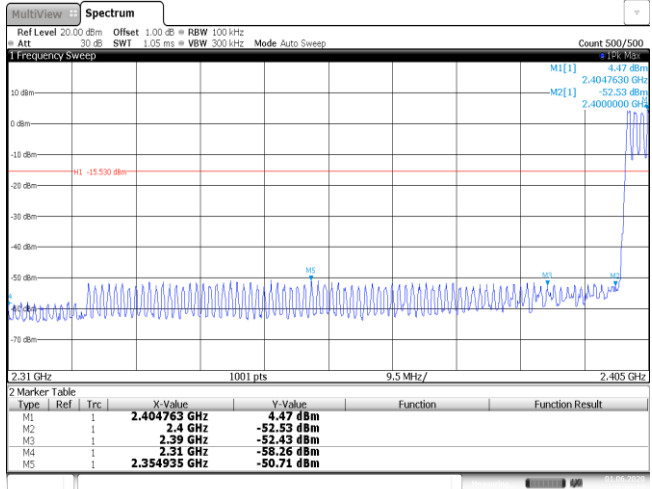
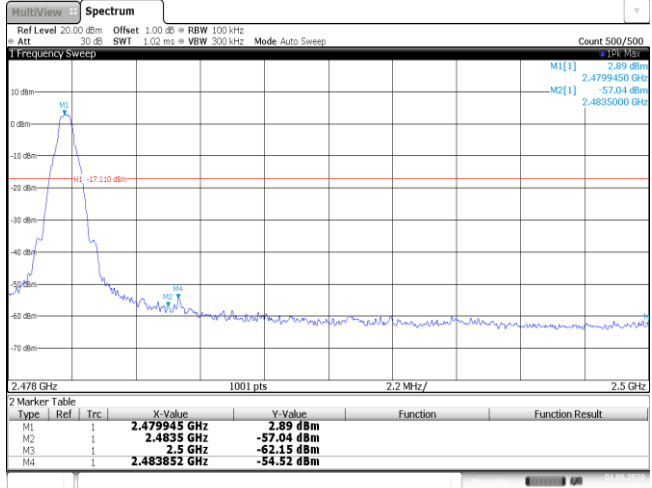
<p>3DH3 Burst number</p>	 <p>The spectrum plot shows a dense signal with a peak level of 0.000200 dBm. The y-axis ranges from -50 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 30001 points. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 31.6 s, RBW 500 kHz, VBW 3 MHz. The date is 1 JUN 2020 11:24:33.</p>
<p>3DH5 Burst width</p>	 <p>The spectrum plot shows a signal burst with a peak level of 0.00000000 dBm. The y-axis ranges from -50 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 8001 points. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 10 ms, RBW 1 MHz, VBW 3 MHz. The date is 1 JUN 2020 11:13:56.</p>
<p>3DH5 Burst number</p>	 <p>The spectrum plot shows a dense signal with a peak level of 0.0001800 dBm. The y-axis ranges from -50 dBm to 10 dBm, and the x-axis shows a center frequency of 2.441 GHz with 30001 points. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, SWT 31.6 s, RBW 500 kHz, VBW 3 MHz. The date is 1 JUN 2020 11:14:30.</p>

Appendix G: Duty Cycle Correction Factor (DCCF)

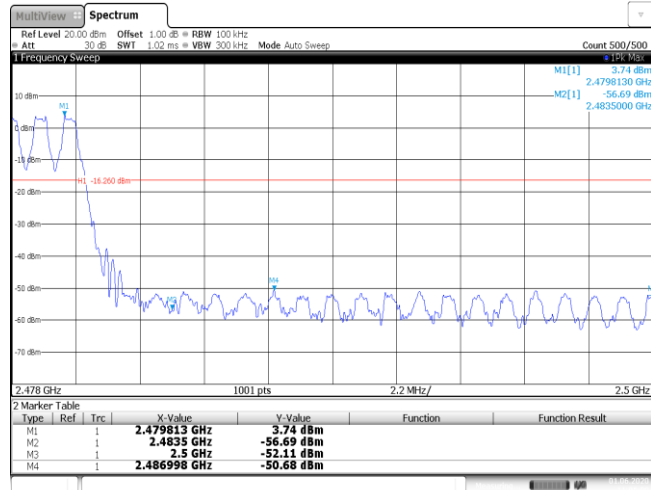
DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log($T_{on\ time} / T_{period}$)					
Modulation type	Test Frequency (MHz)	$T_{on\ time}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	1.00	100	2.00	-33.98
$\pi/4$ DQPSK	2441	1.00	100	1.00	-40
8DPSK	2441	1.00	100	1.00	-40



Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401916 GHz</td> <td>2.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-54.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39949 GHz</td> <td>-51.93 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 09:54:03</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	2.97 dBm			M2	1		2.4 GHz	-54.72 dBm			M3	1		2.39 GHz	-62.76 dBm			M4	1		2.31 GHz	-63.66 dBm			M5	1		2.39949 GHz	-51.93 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401916 GHz	2.97 dBm																																									
M2	1		2.4 GHz	-54.72 dBm																																									
M3	1		2.39 GHz	-62.76 dBm																																									
M4	1		2.31 GHz	-63.66 dBm																																									
M5	1		2.39949 GHz	-51.93 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.404763 GHz</td> <td>4.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-58.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.354935 GHz</td> <td>-50.71 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 11:04:29</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404763 GHz	4.47 dBm			M2	1		2.4 GHz	-52.53 dBm			M3	1		2.39 GHz	-52.43 dBm			M4	1		2.31 GHz	-58.26 dBm			M5	1		2.354935 GHz	-50.71 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404763 GHz	4.47 dBm																																									
M2	1		2.4 GHz	-52.53 dBm																																									
M3	1		2.39 GHz	-52.43 dBm																																									
M4	1		2.31 GHz	-58.26 dBm																																									
M5	1		2.354935 GHz	-50.71 dBm																																									
<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>2.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.48335 GHz</td> <td>-57.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483852 GHz</td> <td>-54.52 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 10:05:06</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479945 GHz	2.89 dBm			M2	1		2.48335 GHz	-57.04 dBm			M3	1		2.5 GHz	-62.15 dBm			M4	1		2.483852 GHz	-54.52 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479945 GHz	2.89 dBm																																									
M2	1		2.48335 GHz	-57.04 dBm																																									
M3	1		2.5 GHz	-62.15 dBm																																									
M4	1		2.483852 GHz	-54.52 dBm																																									

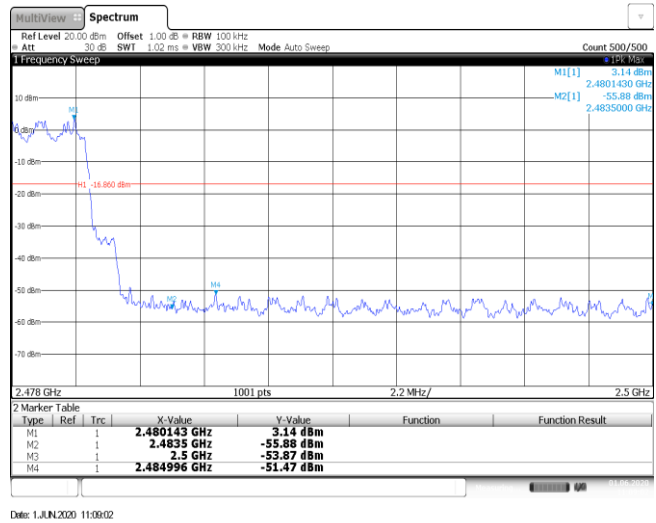
CH78
Hopping mode

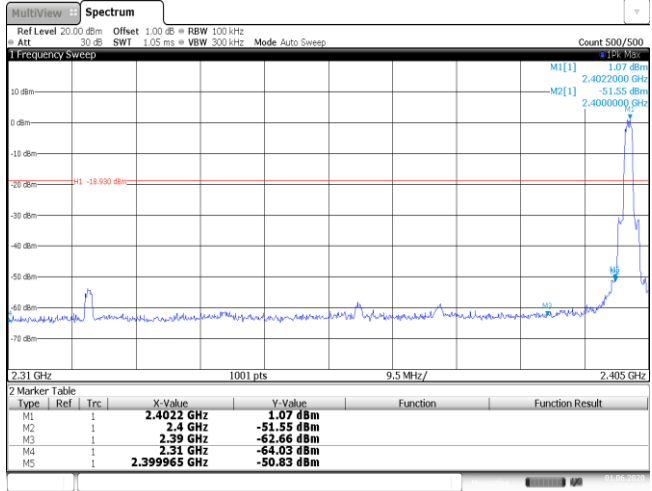
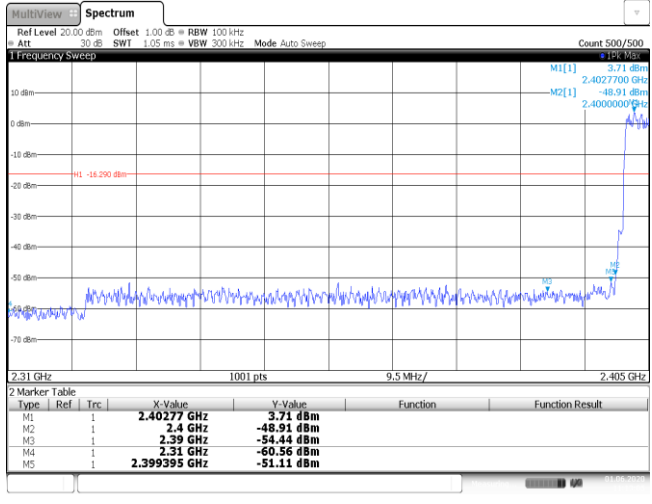
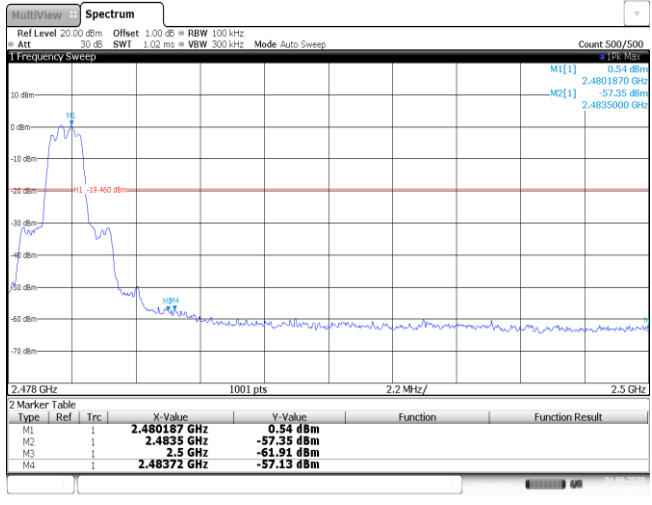


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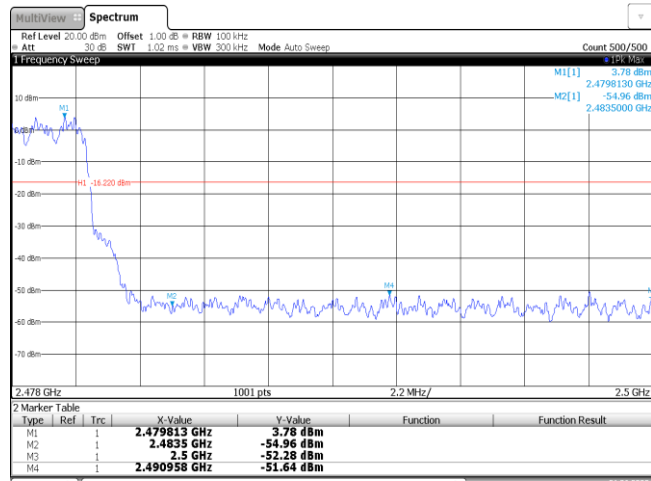
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<p>CH00 Hopping mode</p>			
<p>CH78 No hopping mode</p>			

CH78
Hopping mode

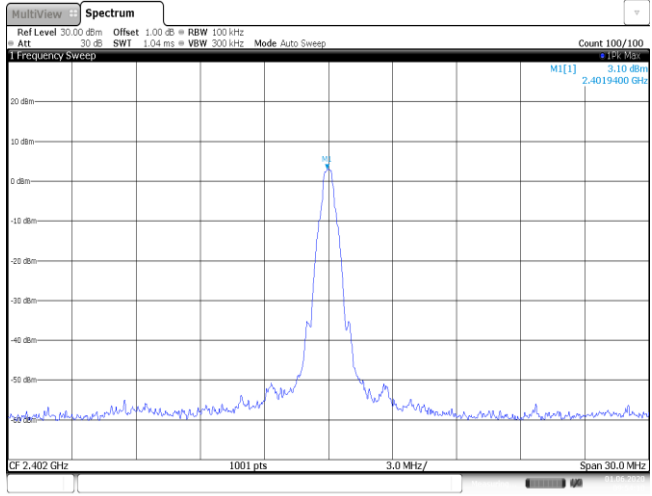
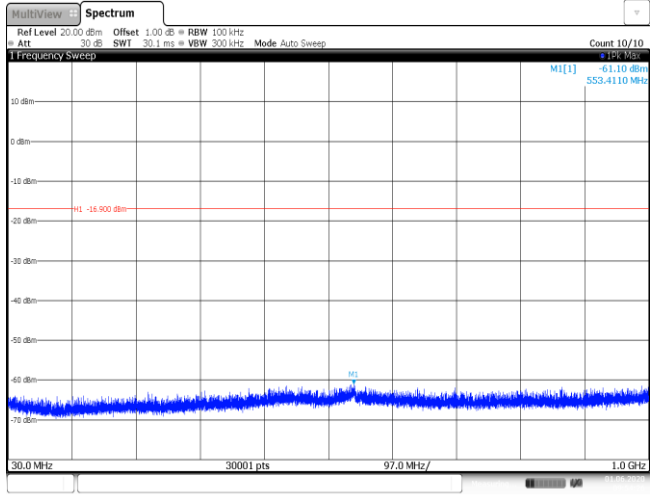
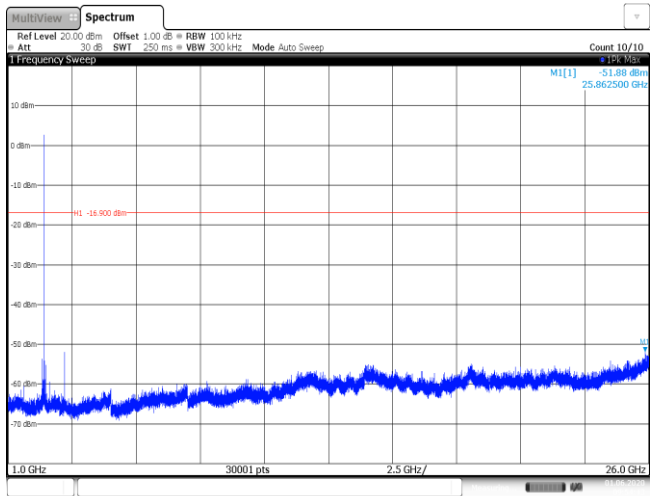


Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	 <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4022 GHz</td> <td>1.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-51.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-50.83 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 10:54:23</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	1.07 dBm			M2	1		2.4 GHz	-51.55 dBm			M3	1		2.39 GHz	-62.66 dBm			M4	1		2.31 GHz	-64.03 dBm			M5	1		2.399965 GHz	-50.83 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M5	1		2.399965 GHz	-50.83 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40277 GHz</td> <td>3.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-60.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399395 GHz</td> <td>-51.11 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 11:13:05</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40277 GHz	3.71 dBm			M2	1		2.4 GHz	-48.91 dBm			M3	1		2.39 GHz	-54.44 dBm			M4	1		2.31 GHz	-60.56 dBm			M5	1		2.399395 GHz	-51.11 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40277 GHz	3.71 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>2.480187 GHz</td> <td>0.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-61.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.48372 GHz</td> <td>-57.13 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 11:00:40</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480187 GHz	0.54 dBm			M2	1		2.4835 GHz	-57.35 dBm			M3	1		2.5 GHz	-61.91 dBm			M4	1		2.48372 GHz	-57.13 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M3	1		2.5 GHz	-61.91 dBm																																									
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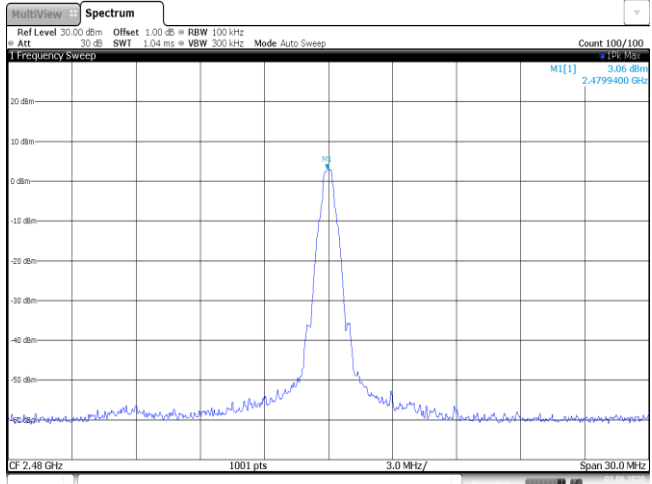
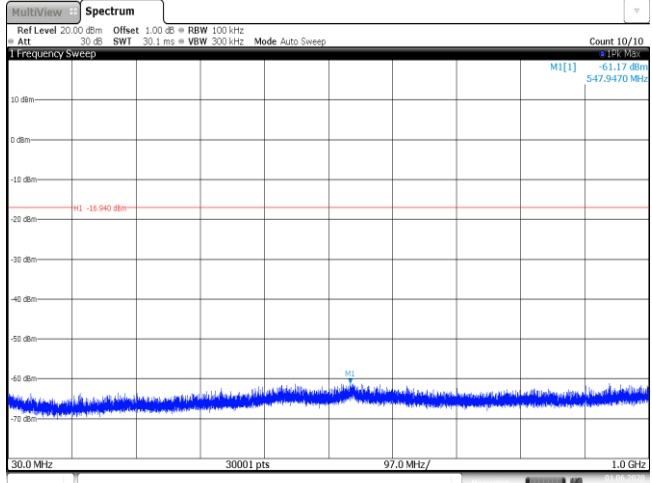
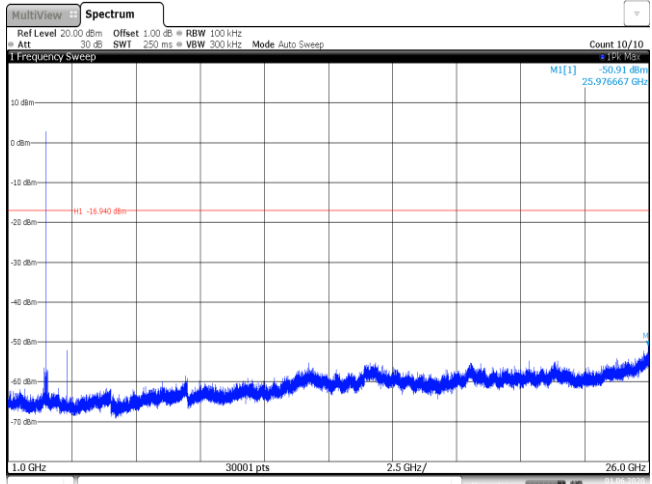
CH78
Hoppig mode

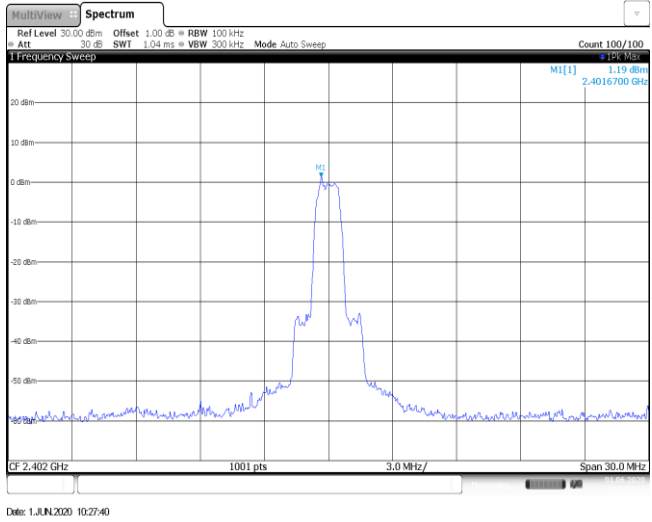
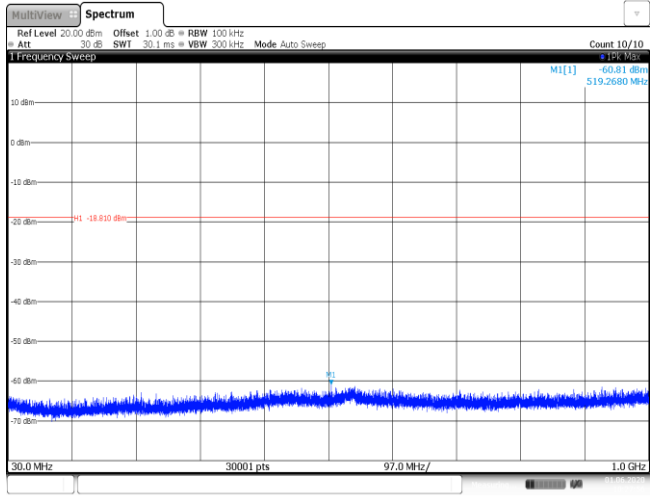
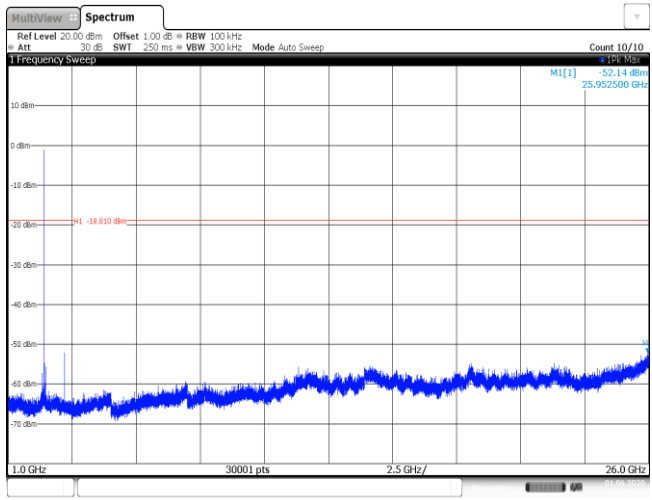


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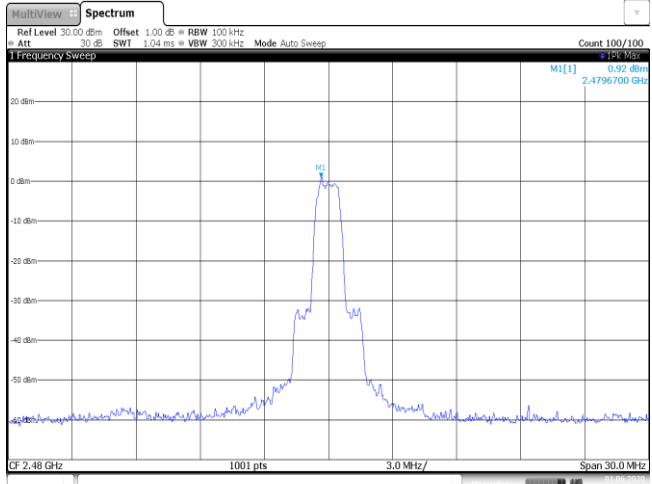
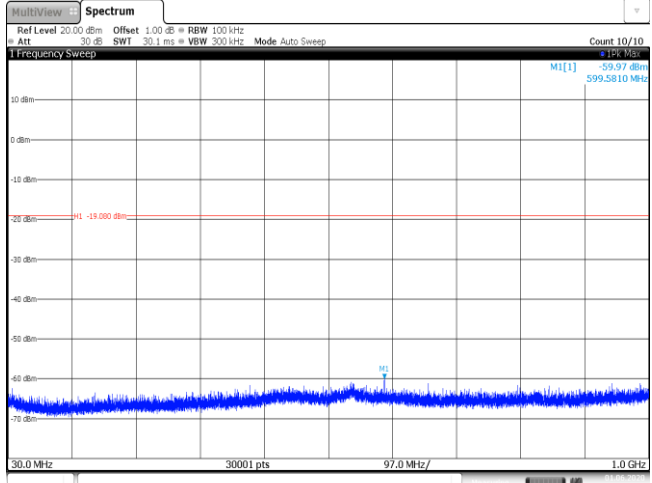
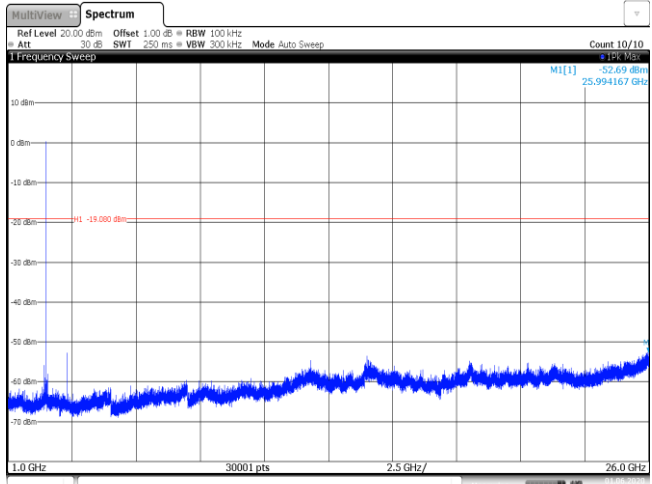
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<p>CH00 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 3.10 dBm 2.4019400 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 09:54:10</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep MI[1] -61.10 dBm 553.4110 MHz H1 -16.900 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 09:54:26</p>		
<p>CH00 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] -51.89 dBm 25.862500 GHz H1 -16.900 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 09:54:43</p>		

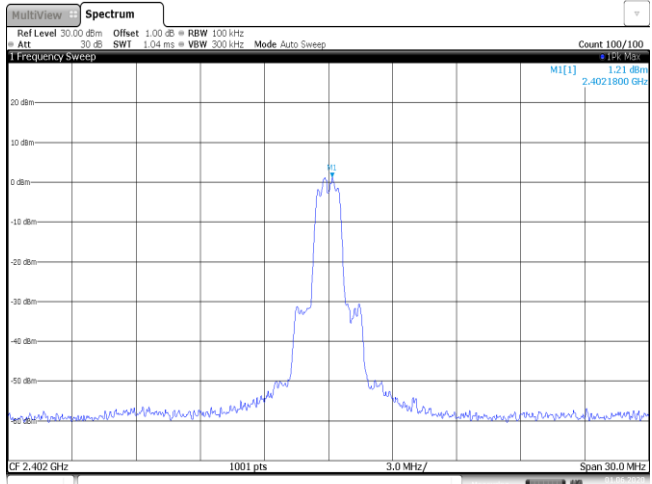
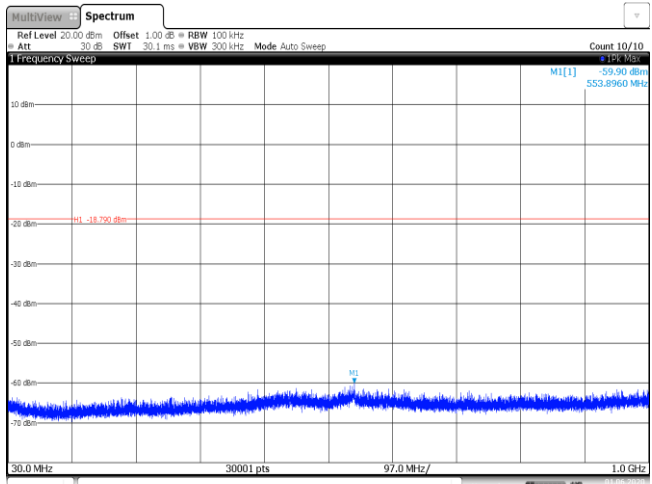
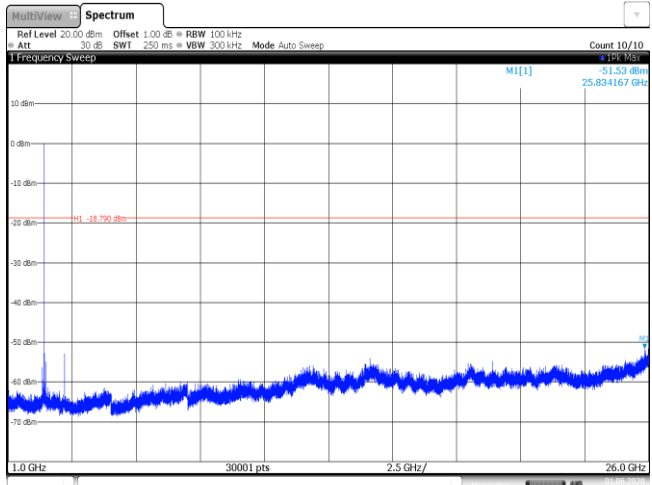
<p>CH39 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 3.67 dBm 2.4409400 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 10:01:53</p>
<p>CH39 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -59.84 dBm 897.3940 MHz MI -16.200 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 10:02:09</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] -52.00 dBm 3.254167 GHz MI -16.200 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 10:02:25</p>

<p>CH78 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] 3.06 dBm 2.4799400 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 10:05:13</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep MI[1] -61.17 dBm 547.9470 MHz H1 -16.940 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 10:05:29</p>
<p>CH78 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] -50.91 dBm 25.976667 GHz H1 -16.940 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 10:05:45</p>

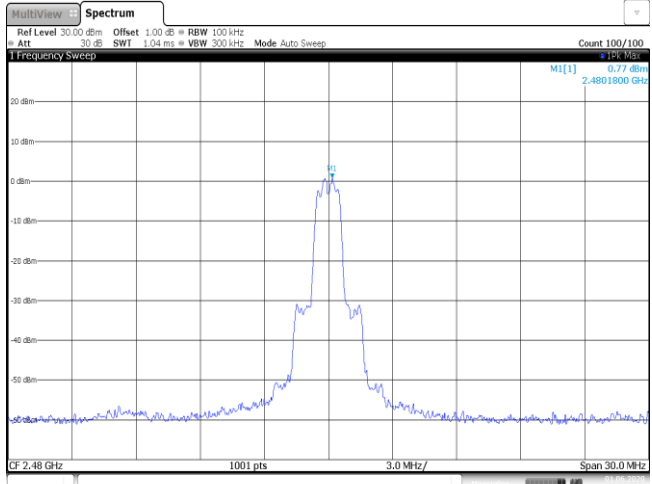
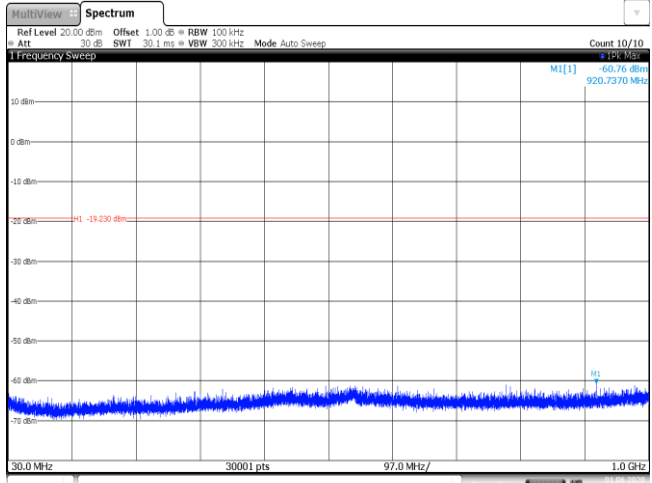
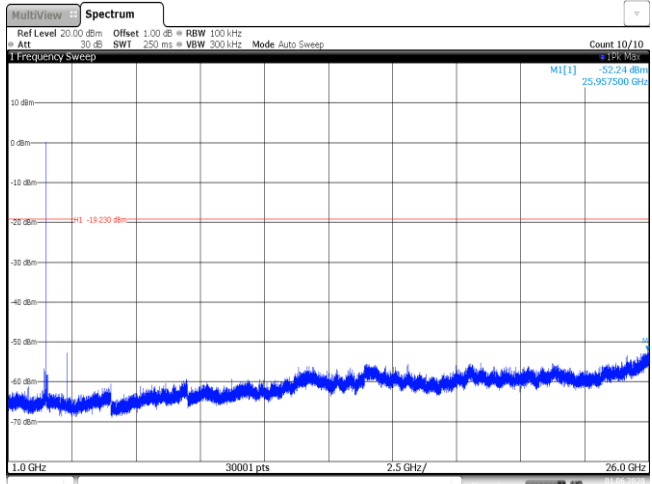
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<p>CH00 Reference level</p>			
<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

<p>CH39 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] 1.51 dBm 2.4406700 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 10:45:28</p>
<p>CH39 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] -61.07 dBm 449.7540 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 10:45:44</p>
<p>CH39 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] -52.15 dBm 25.9800000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 10:46:00</p>

<p>CH78 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] 0.92 dBm 2.4796700 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 10:50:56</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep MI[1] -59.97 dBm 599.5810 MHz MI -19.000 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 10:51:12</p>
<p>CH78 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] -52.69 dBm 25.994167 GHz MI -19.000 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 10:51:28</p>

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 1.21 dBm 2.4021800 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 10:53:19</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -59.90 dBm 553.8960 MHz MI -18.790 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 10:53:38</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.53 dBm 25.834167 GHz MI -18.790 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 10:53:54</p>		

<p>CH39 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</p> <p>Count 100/100 MI[1] 1.36 dBm 2.4411800 GHz</p> <p>CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 1.JUN.2020 10:57:56</p>
<p>CH39 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</p> <p>Count 10/10 MI[1] -60.73 dBm 554.1540 MHz</p> <p>MI -18.640 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 1.JUN.2020 10:58:12</p>
<p>CH39 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</p> <p>Count 10/10 MI[1] -52.06 dBm 25.966667 GHz</p> <p>MI -18.640 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 1.JUN.2020 10:58:28</p>

<p>CH78 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] 0.77 dBm 2.4801800 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 11:00:47</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep MI[1] -60.76 dBm 920.7370 MHz H1 -19.230 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 11:01:03</p>
<p>CH78 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] -52.24 dBm 25.957500 GHz H1 -19.230 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 11:01:20</p>

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