

APPENDIX REPORT

Project No.	SHT2107079801EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21040536002	Model No.	Star8vm
Start test date	2021-05-28	Finish date	2021-05-28
Temperature	25.5°C	Humidity	63%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhu

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

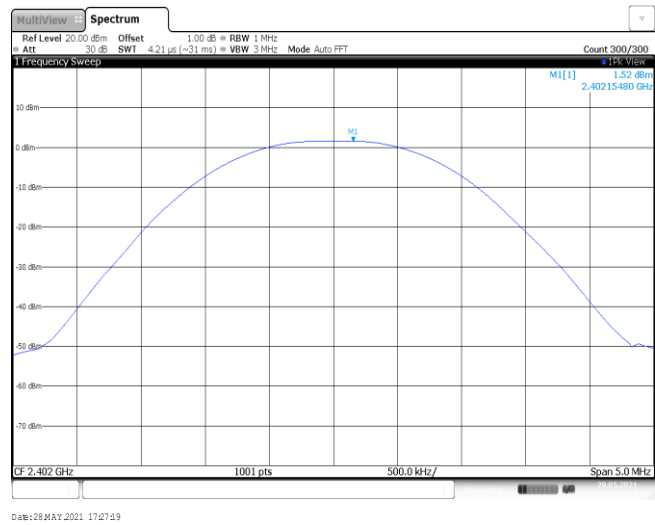
Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	1.52	1.51	≤ 30.00	Pass
	39	2.34	2.32		
	78	2.55	2.54		
$\pi/4$ DQPSK	00	1.42	0.83	≤ 21.00	Pass
	39	2.16	1.59		
	78	2.51	1.99		
8DPSK	00	1.56	0.92	≤ 21.00	Pass
	39	2.25	1.62		
	78	2.54	1.99		

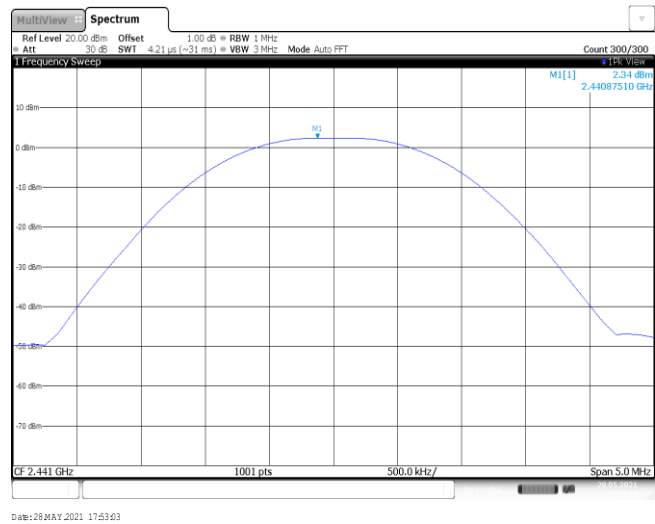
Modulation Type:

GFSK

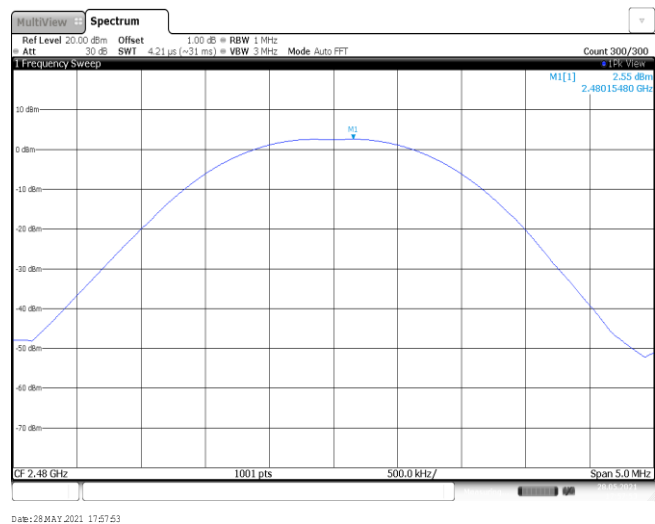
CH00

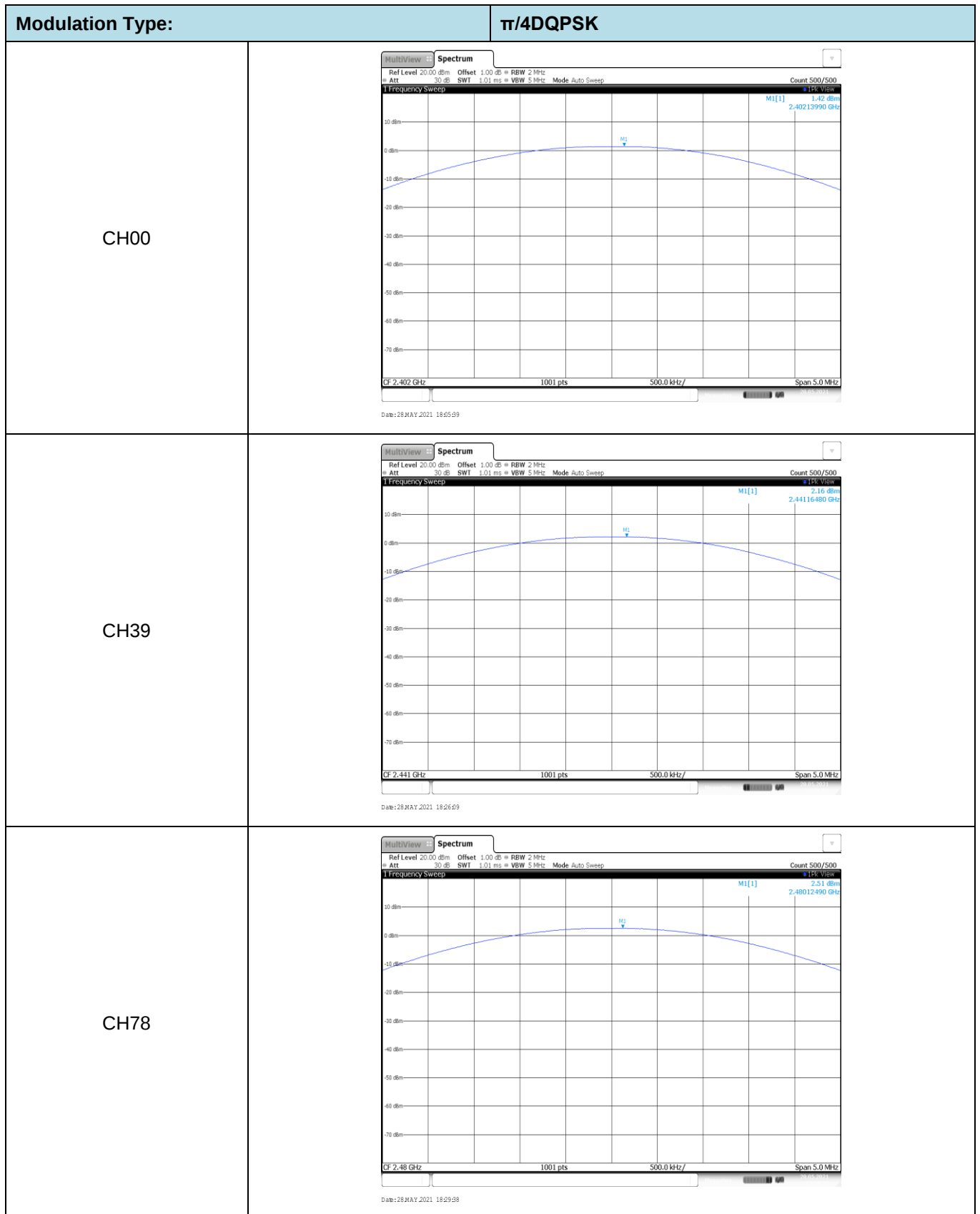


CH39



CH78

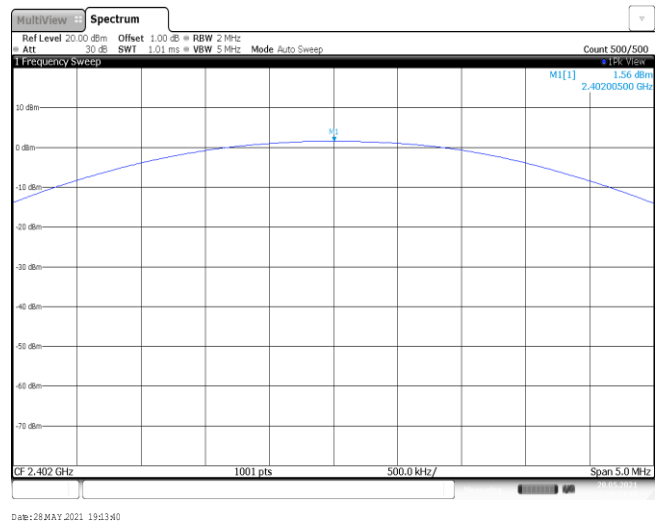




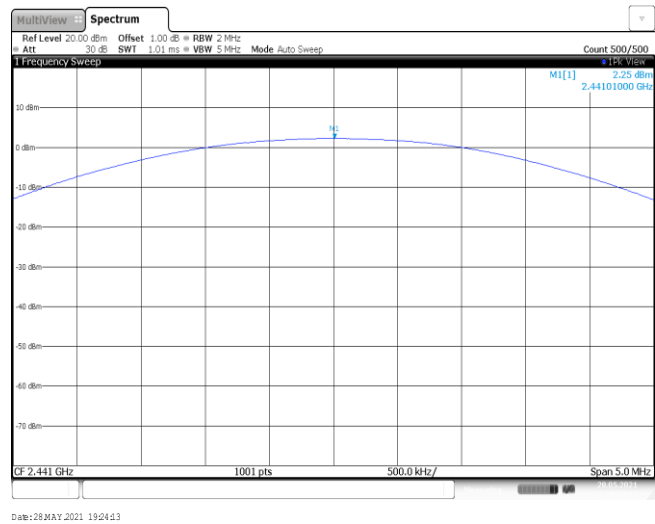
Modulation Type:

8DPSK

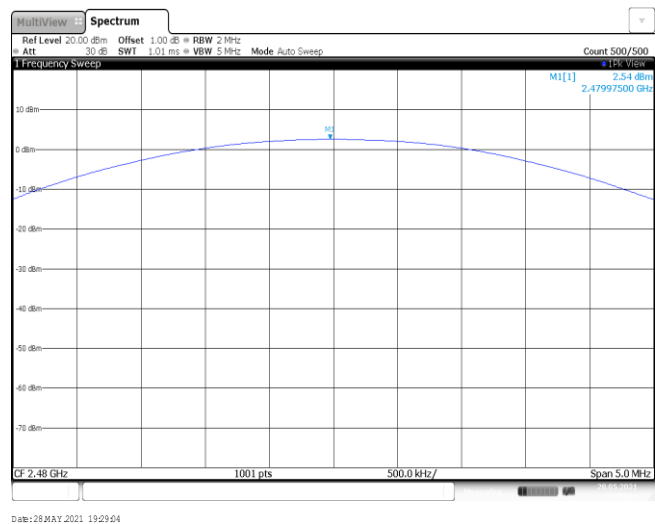
CH00



CH39



CH78



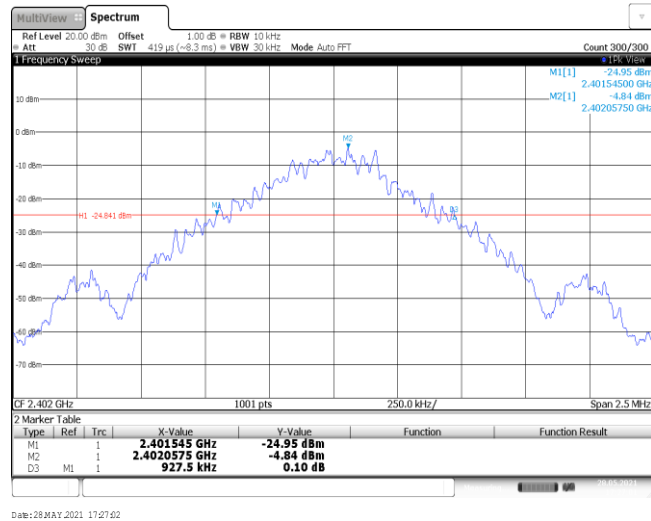
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	927.50	-	Pass
	39	927.50		
	78	927.50		
$\pi/4$ DQPSK	00	1285.00	-	Pass
	39	1287.50		
	78	1310.00		
8DPSK	00	1302.50	-	Pass
	39	1302.50		
	78	1292.50		

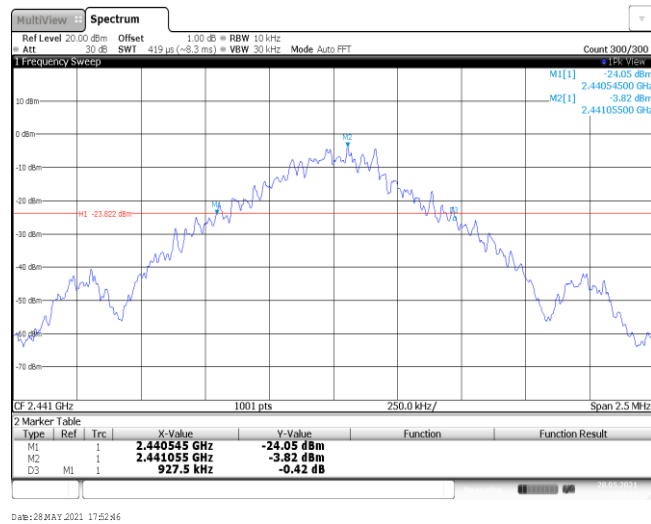
Modulation Type:

GFSK

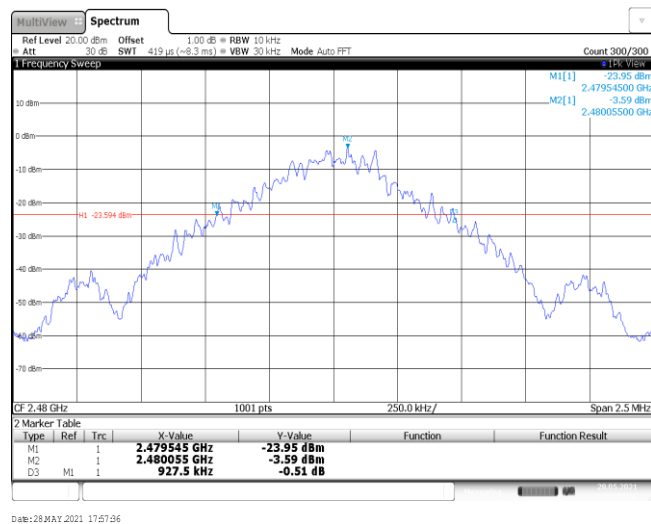
CH00



CH39



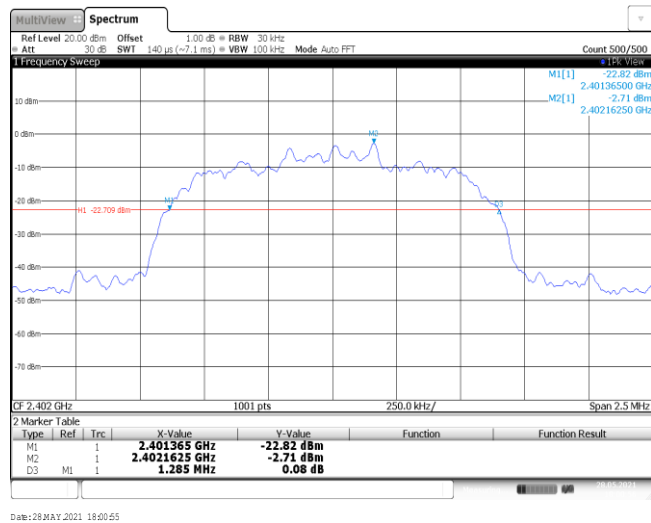
CH78



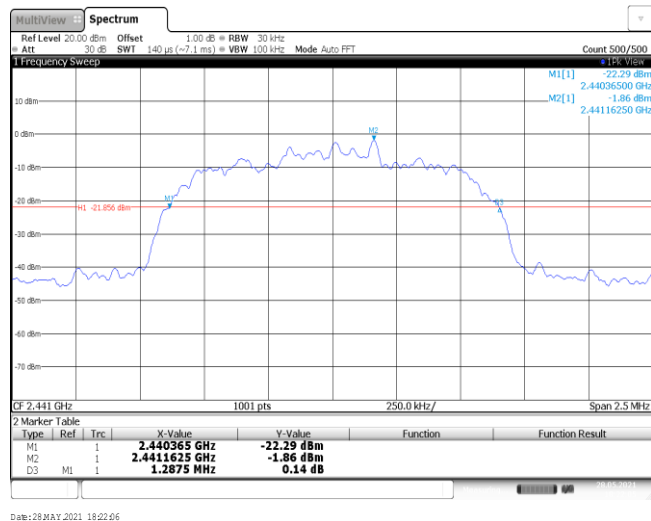
Modulation Type:

 $\pi/4$ DQPSK

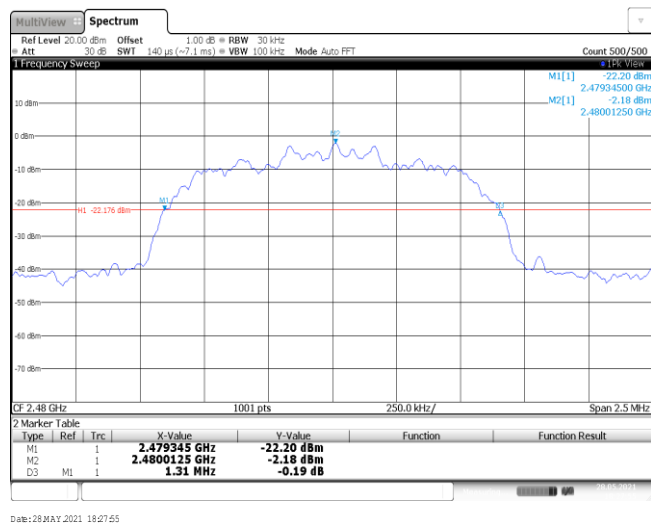
CH00



CH39



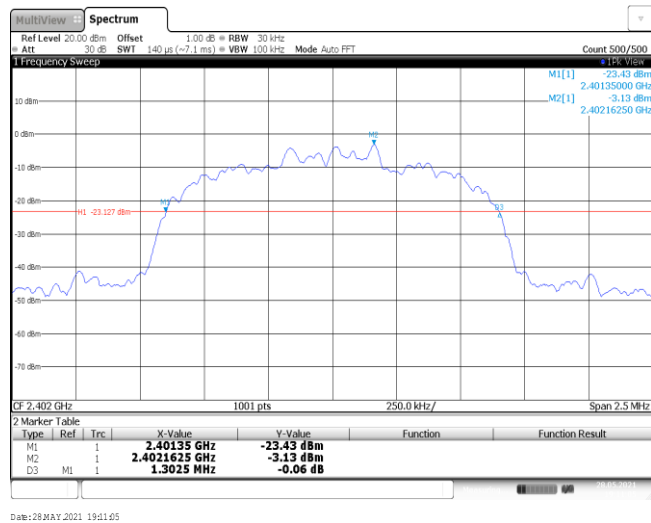
CH78



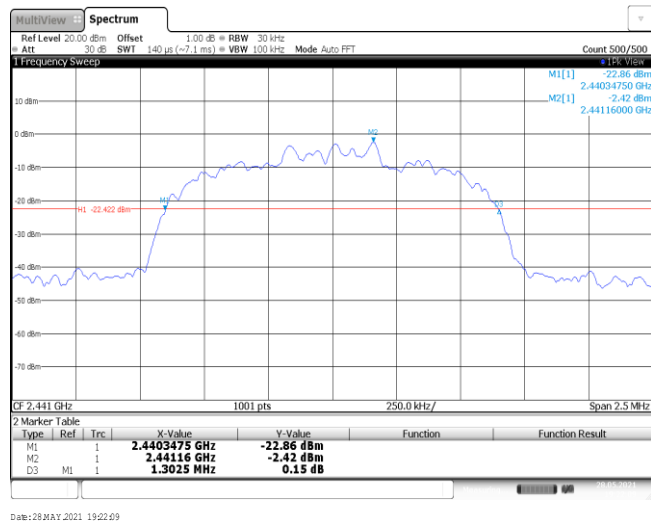
Modulation Type:

8DPSK

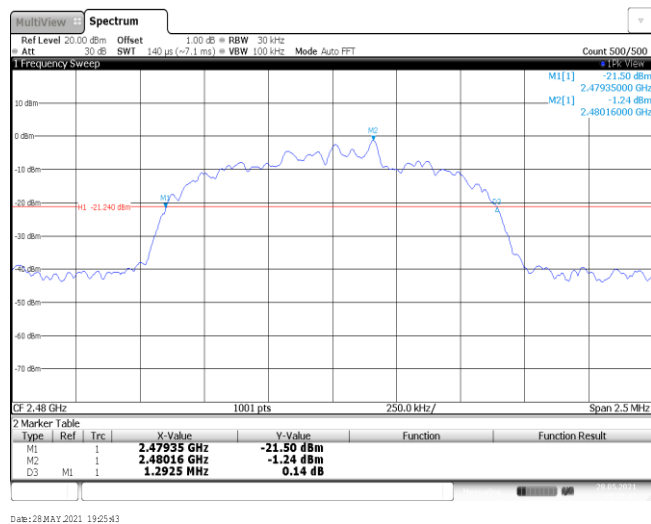
CH00



CH39



CH78



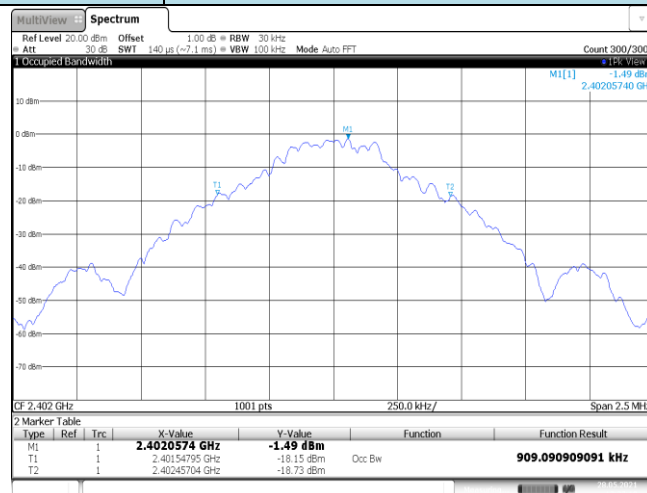
Appendix C: 99% Occupied Bandwidth

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

Modulation Type:

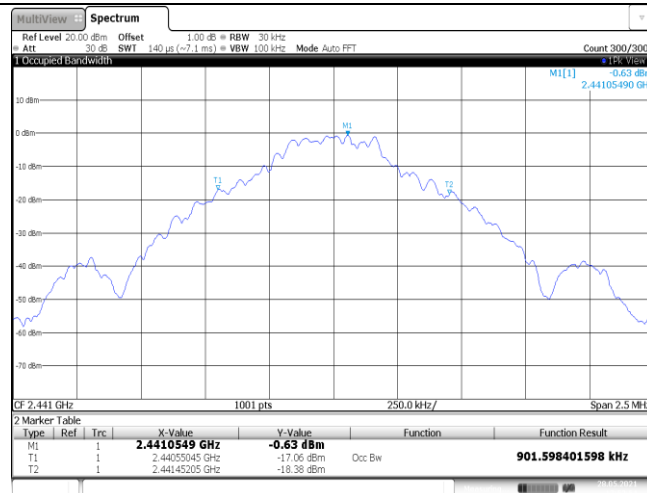
GFSK

CH00



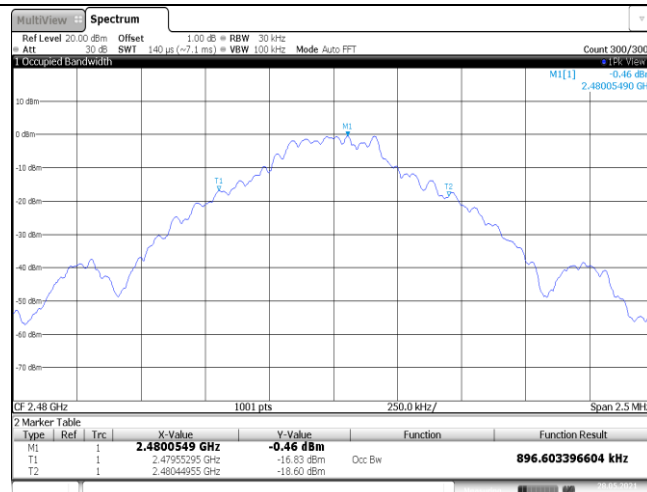
Date: 28.MAY.2021 17:27:10

CH39



Date: 28.MAY.2021 17:52:54

CH78

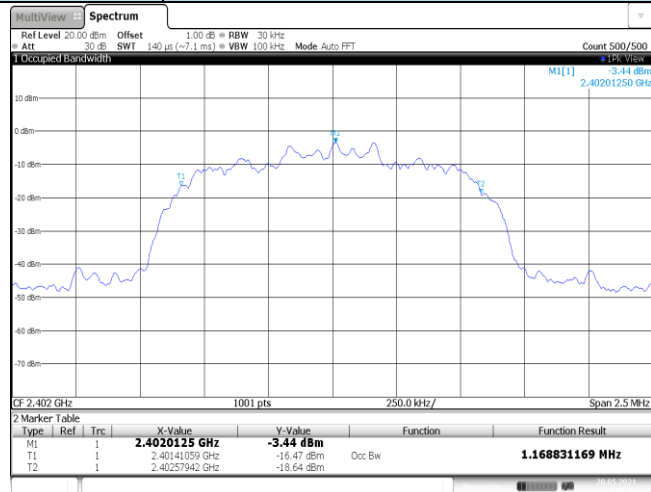


Date: 28.MAY.2021 17:57:44

Modulation Type:

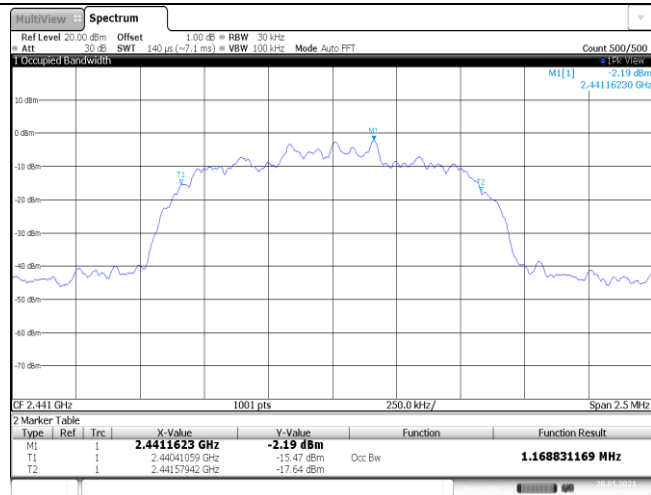
 π /4DQPSK

CH00



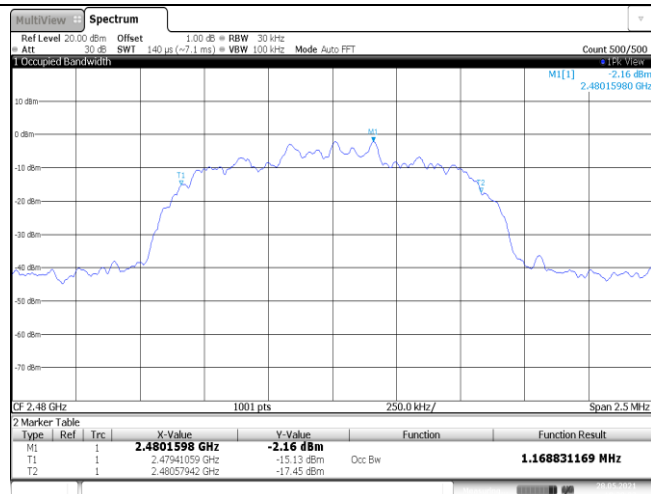
Date: 28.MAY.2021 18:01:03

CH39



Date: 28.MAY.2021 18:22:14

CH78

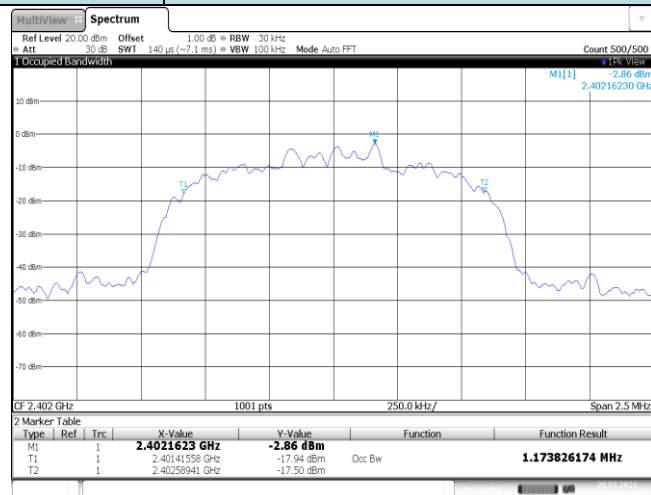


Date: 28.MAY.2021 18:28:03

Modulation Type:

8DPSK

CH00



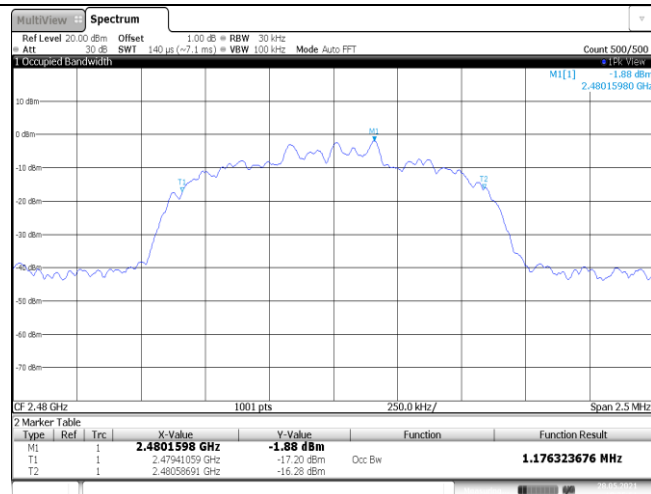
Date: 28.MAY.2021 19:11:33

CH39



Date: 28.MAY.2021 19:22:47

CH78



Date: 28.MAY.2021 19:25:51

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥927.50	Pass
π/4DQPSK	39	1.00	≥873.33	Pass
8DPSK	39	1.00	≥868.33	Pass

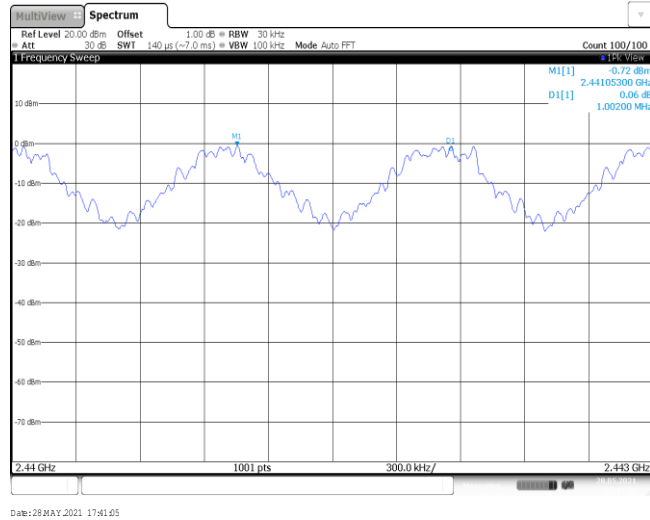
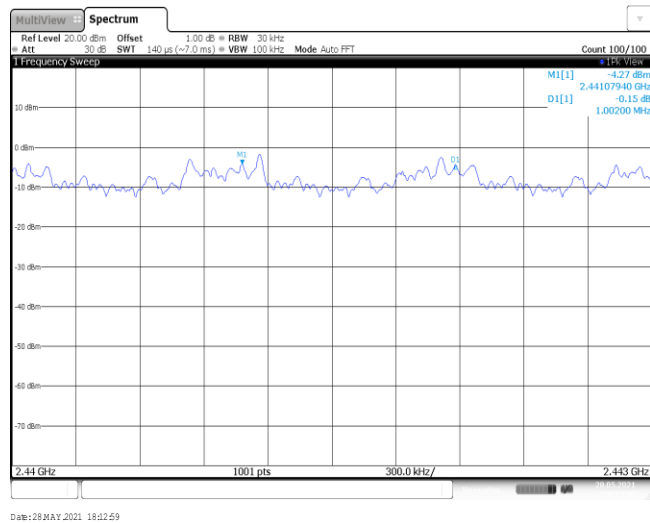
Note:

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

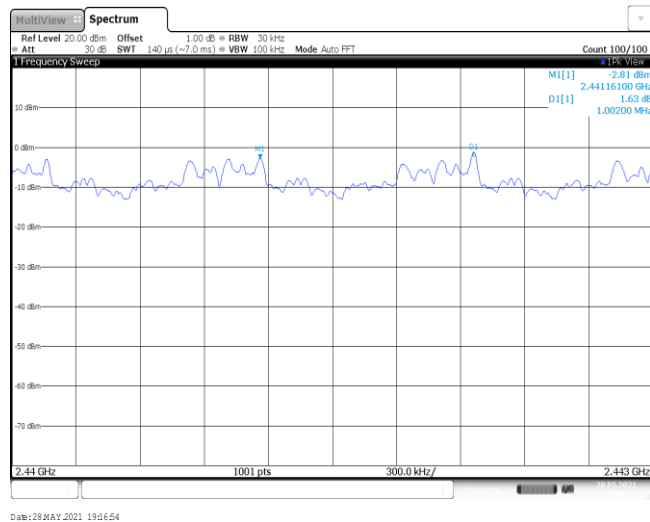
π/4DQPSK limit = 2/3 * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

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

GFSK

 $\pi/4$ DQPSK

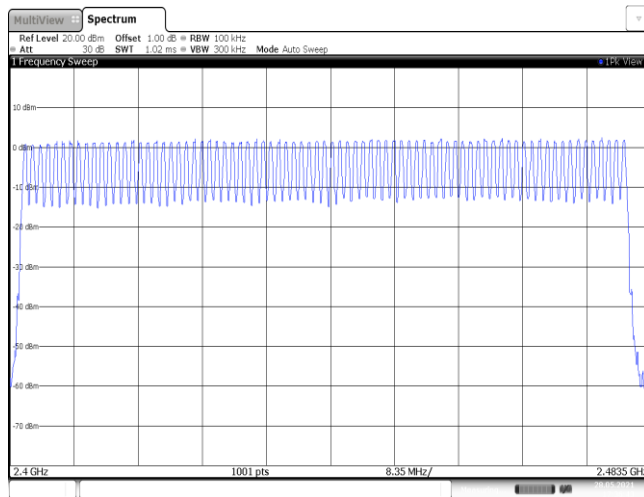
8DPSK



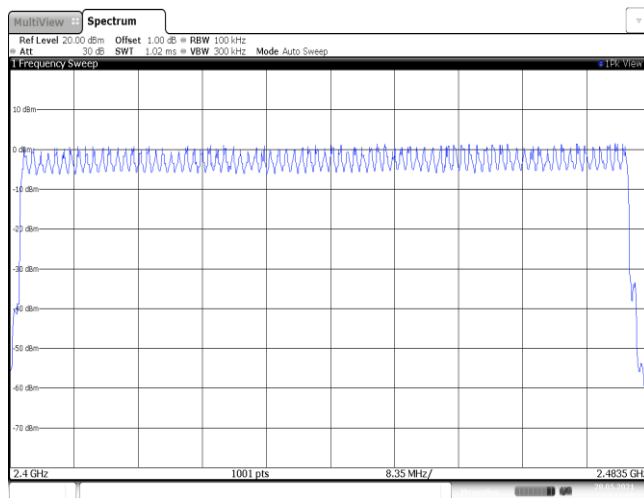
Appendix E: Hopping Channel Number

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

GFSK

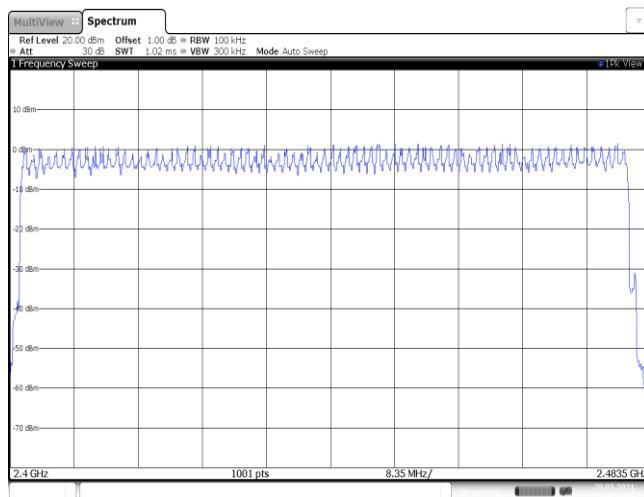


Date: 28 MAY 2021 17:36:44

 $\pi/4$ DQPSK

Date: 28 MAY 2021 18:16:18

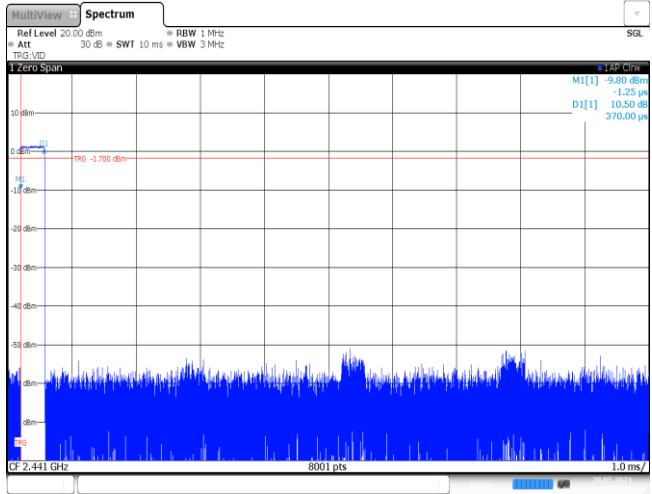
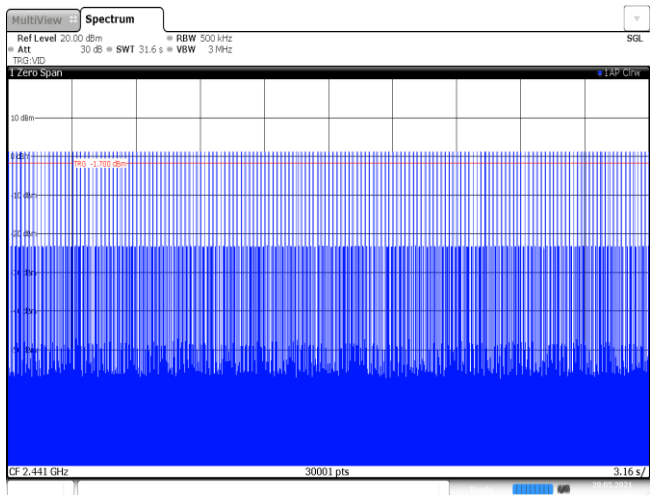
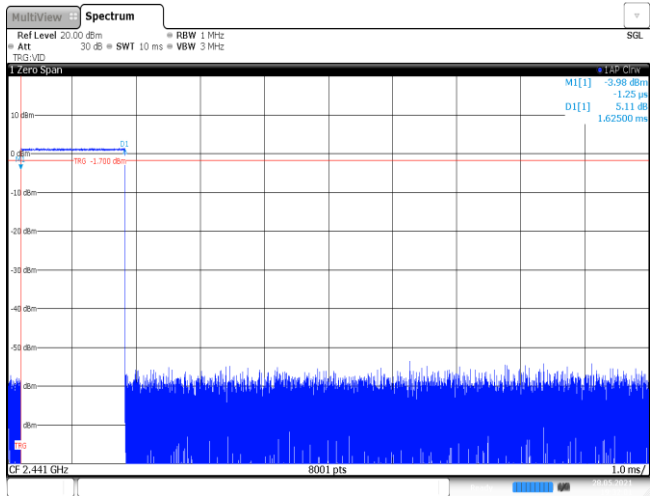
8DPSK



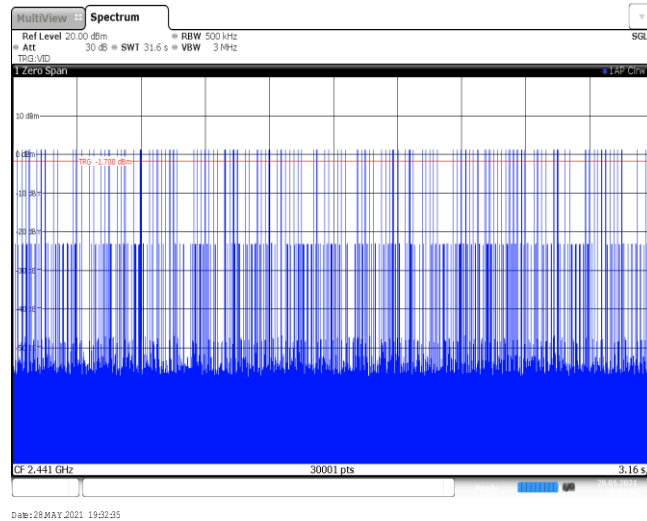
Date: 28 MAY 2021 19:18:57

Appendix F: Dwell Time

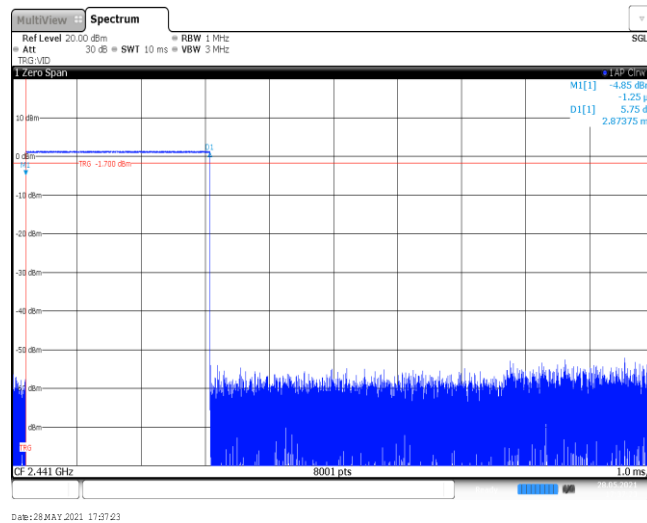
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.37	315	0.12	≤ 0.40	Pass
	DH3	1.63	159	0.26		
	DH5	2.87	122	0.35		
$\pi/4$ DQPSK	2DH1	0.38	315	0.12	≤ 0.40	Pass
	2DH3	1.63	158	0.26		
	2DH5	2.88	98	0.28		
8DPSK	3DH1	0.40	160	0.06	≤ 0.40	Pass
	3DH3	1.63	159	0.26		
	3DH5	2.88	115	0.33		

Modulation Type:	GFSK
DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. The plot shows a narrowband signal with a peak power of approximately -1.700 dBm. The signal is centered at 2.441 GHz. 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 plot also shows a 'Zero Span' view and a '1.00 Chirp' view. The plot is dated 28 MAY 2021 19:30:46.
DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. The plot shows a narrowband signal with a peak power of approximately -1.700 dBm. The signal is centered at 2.441 GHz. 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 plot also shows a 'Zero Span' view and a '3.16 s' view. The plot is dated 28 MAY 2021 19:31:19.
DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. The plot shows a narrowband signal with a peak power of approximately -1.700 dBm. The signal is centered at 2.441 GHz. 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 plot also shows a 'Zero Span' view and a '1.00 Chirp' view. The plot is dated 28 MAY 2021 19:32:01.

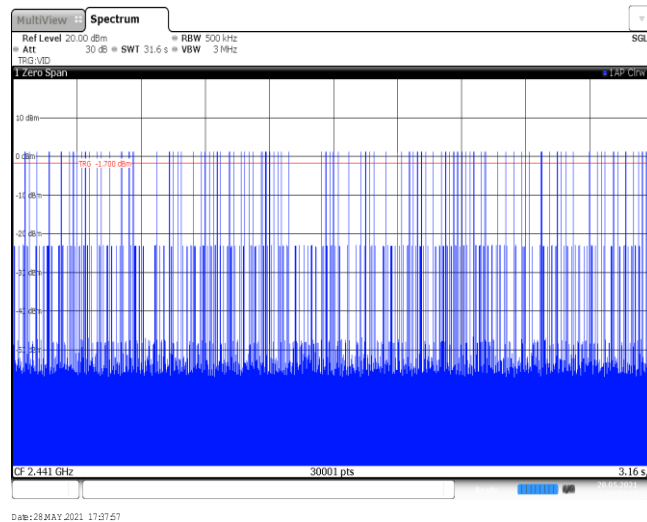
DH3
Burst number

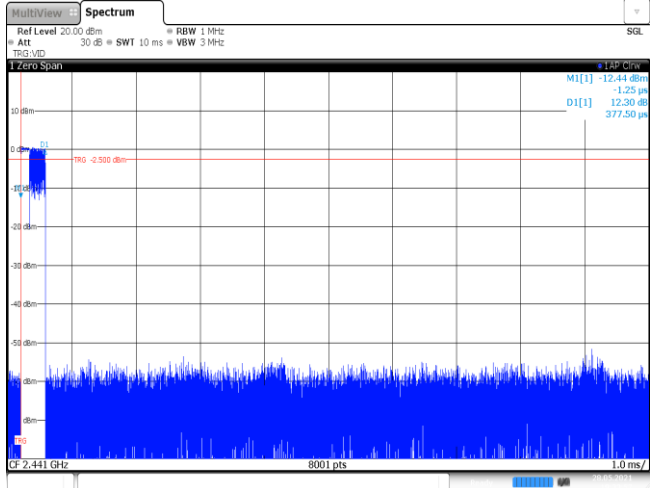
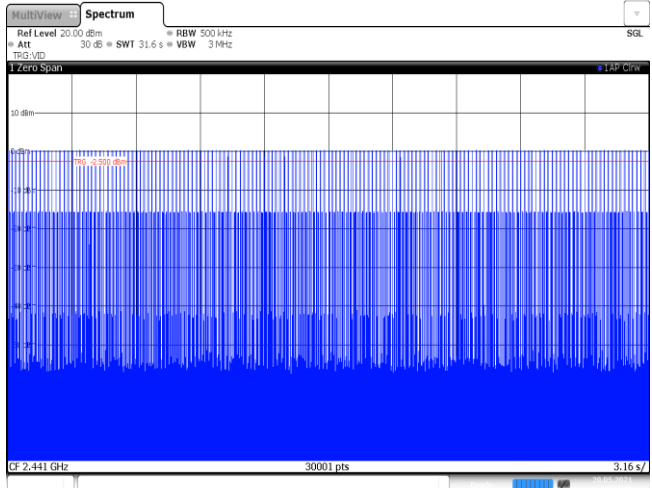
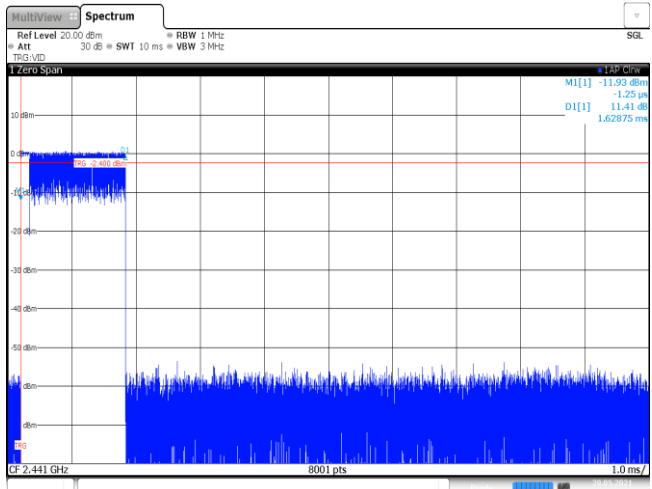


DH5
Burst width

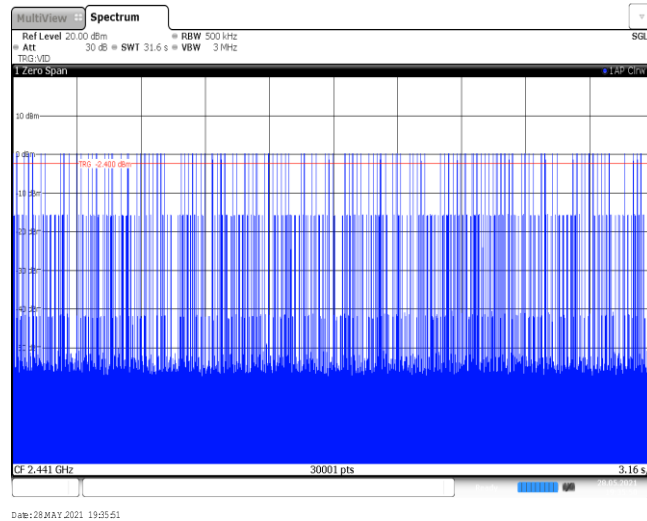


DH5
Burst number

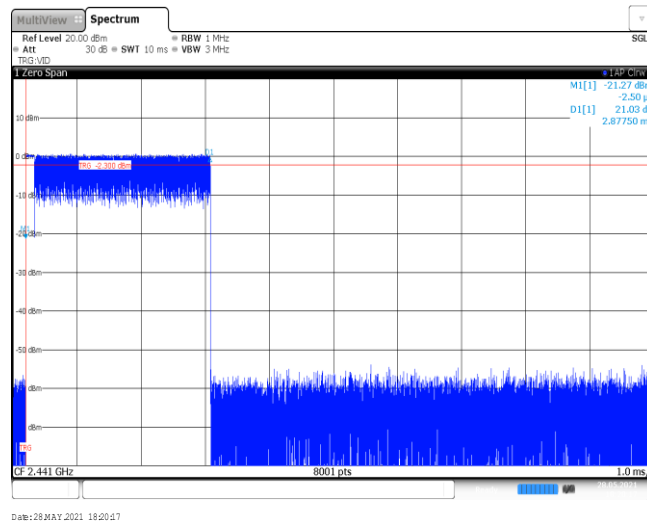


Modulation Type:	$\pi/4$ DQPSK
2DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 1.0 ms. The plot includes a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. The plot also shows a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz M1[1] -12.44 dBm D1[1] -1.25 ps 12.30 dB 377.50 ps CF 2.441 GHz 8001 pts 1.0 ms/ Date: 28 MAY 2021 19:33:57
2DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 3.16 s. The plot includes a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. The plot also shows a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz M1[1] -12.44 dBm D1[1] -1.25 ps 12.30 dB 377.50 ps CF 2.441 GHz 30001 pts 3.16 s/ Date: 28 MAY 2021 19:34:00
2DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 1.0 ms. The plot includes a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. The plot also shows a red line at -20.00 dBm and a blue line at -12.44 dBm. The signal is labeled M1[1] and D1[1]. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz M1[1] -11.93 dBm D1[1] -1.25 ps 11.41 dB 1.62875 ms CF 2.441 GHz 8001 pts 1.0 ms/ Date: 28 MAY 2021 19:35:17

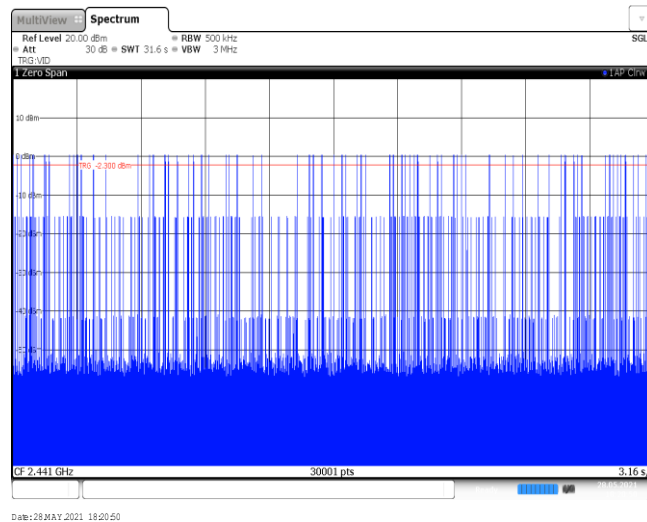
2DH3
Burst number

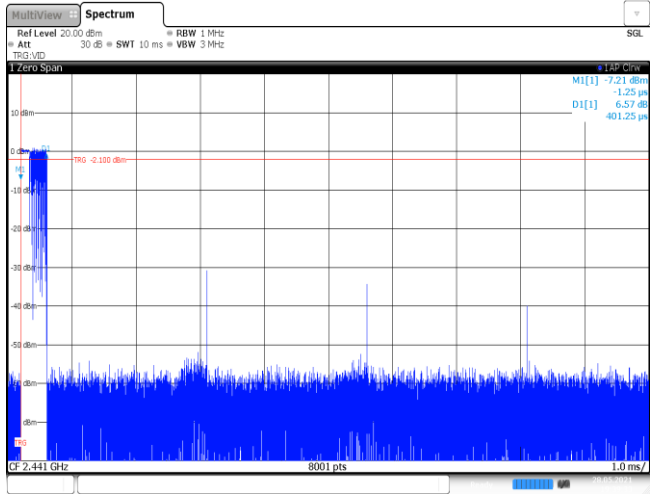
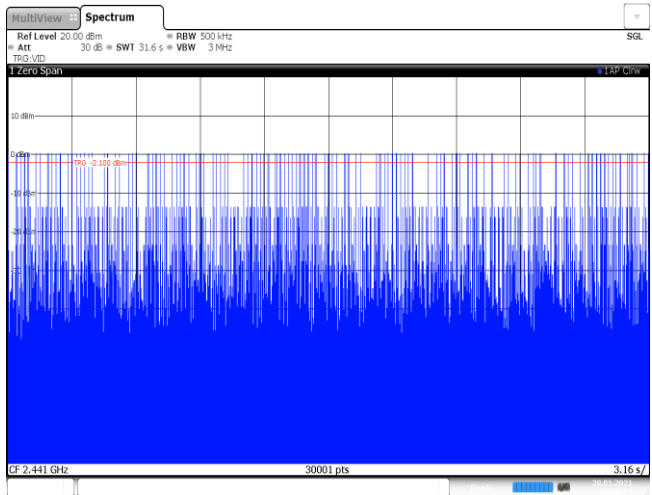
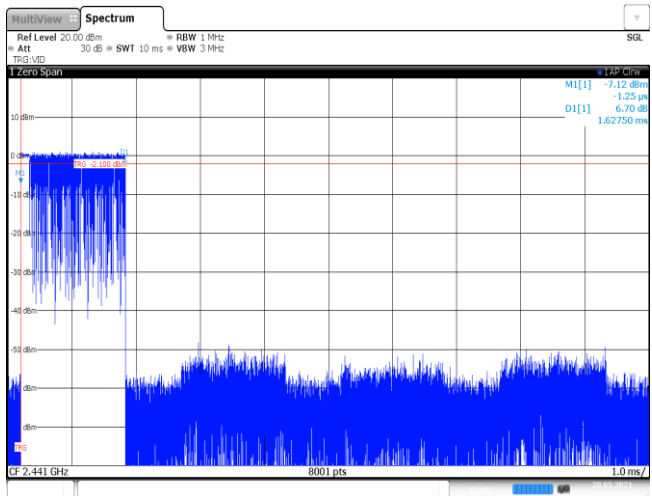


2DH5
Burst width

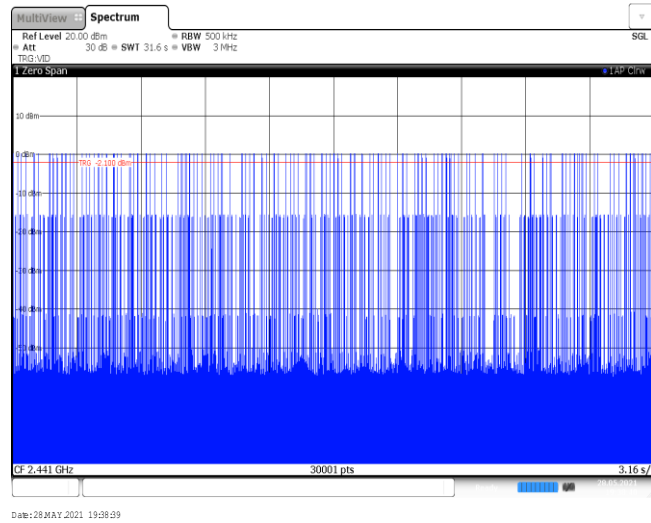


2DH5
Burst number

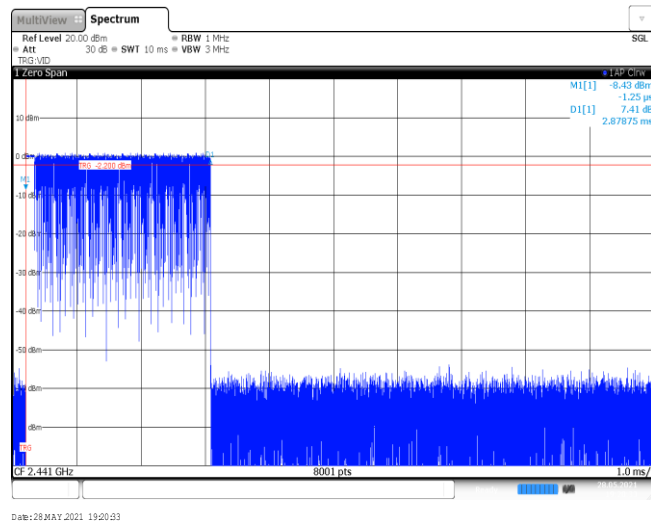


Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. The plot shows a burst of signal at the beginning, followed by a period of low power. The signal is identified as 3DH1. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz CF 2.441 GHz 8001 pts 1.0 ms Date: 28 MAY 2021 19:39:33
3DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents time in s, ranging from 0 to 3.16. The plot shows a continuous burst of signal. The signal is identified as 3DH1. Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz CF 2.441 GHz 30001 pts 3.16 s Date: 28 MAY 2021 19:40:07
3DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. The plot shows a burst of signal at the beginning, followed by a period of low power. The signal is identified as 3DH3. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz CF 2.441 GHz 8001 pts 1.0 ms Date: 28 MAY 2021 19:38:06

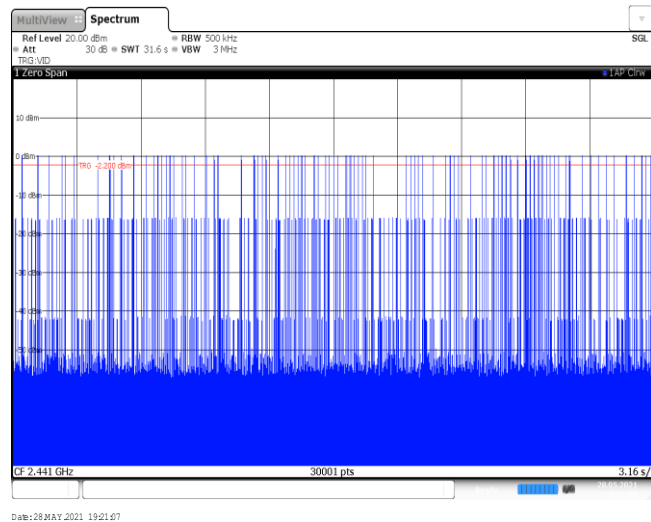
3DH3
Burst number



3DH5
Burst width



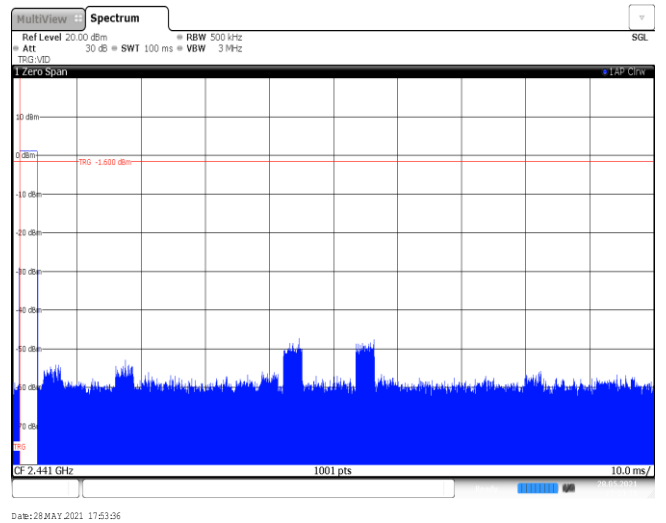
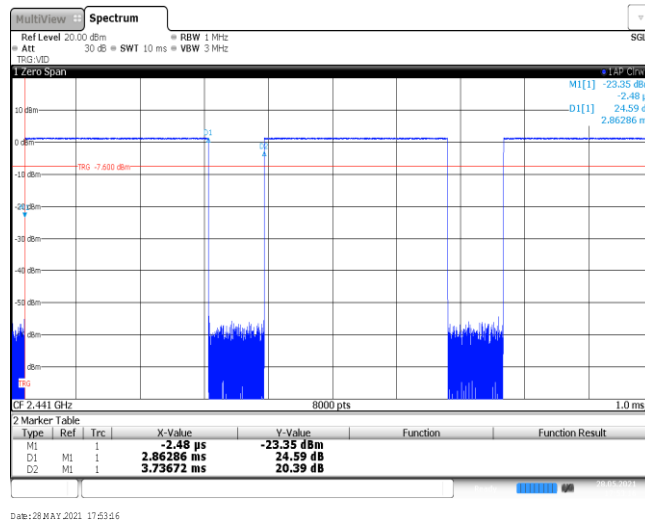
3DH5
Burst number



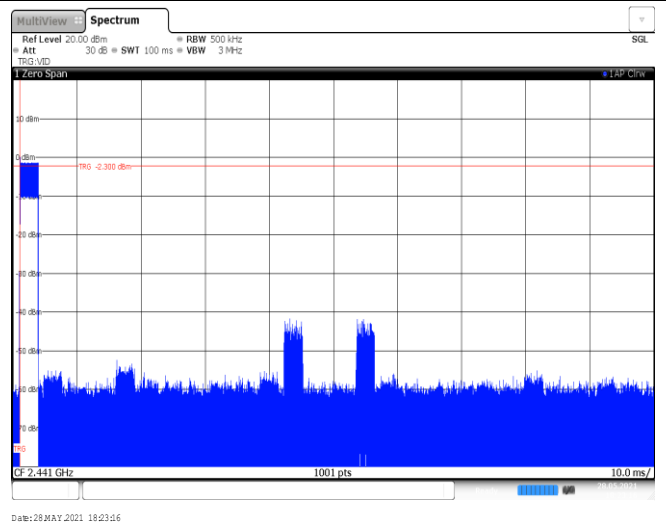
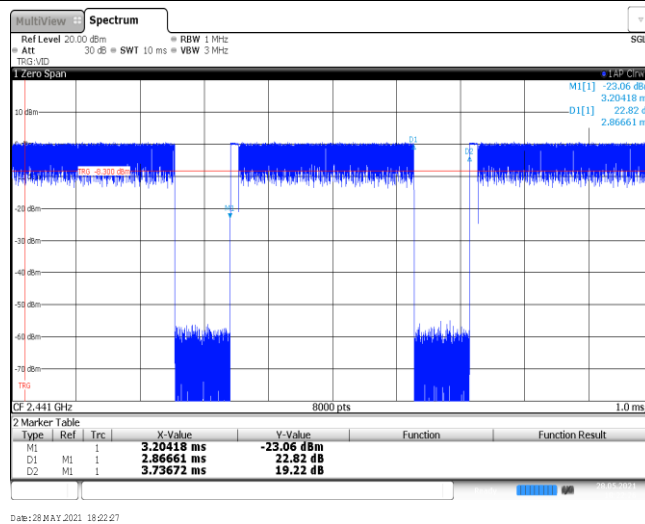
Appendix G: Duty Cycle Correction Factor (DCCF)

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log($T_{\text{on time}} / T_{\text{period}}$)					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	1	-30.87
$\pi/4$ DQPSK	2441	2.87	100	1	-30.84
8DPSK	2441	2.87	100	1	-30.84

GFSK

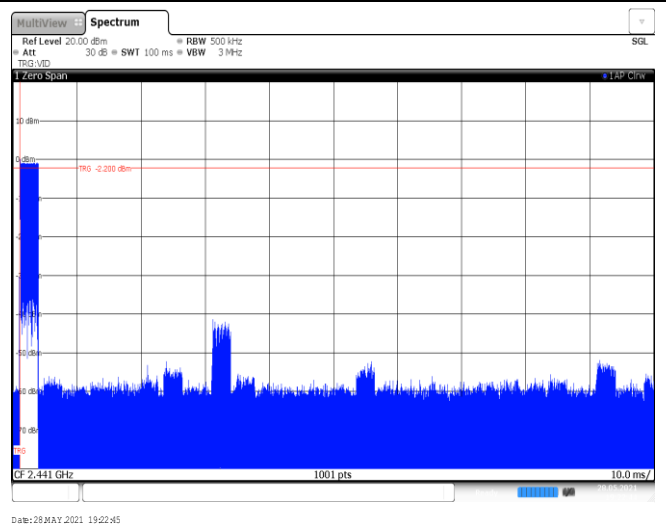
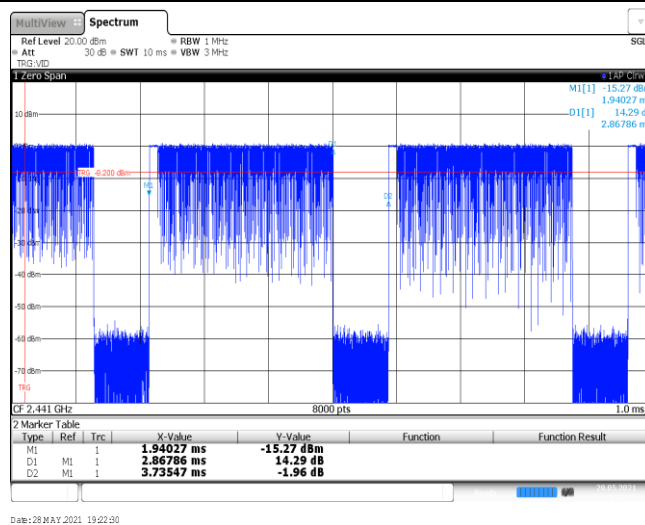
T_{on} time for single burst

Burst Quantity

 $\pi/4$ DQPSKT_{on} time for single burst

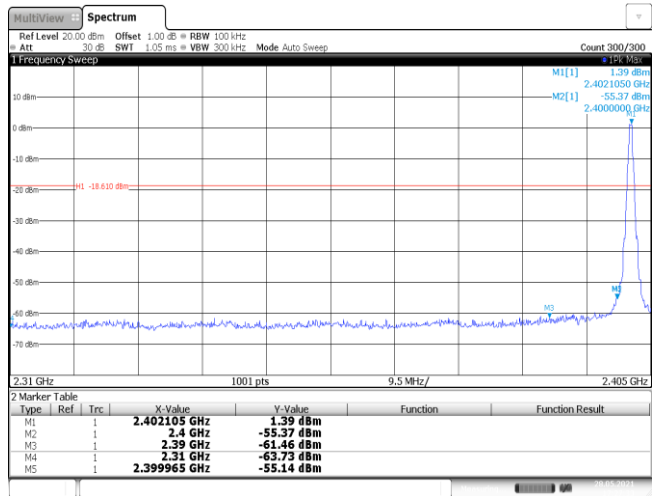
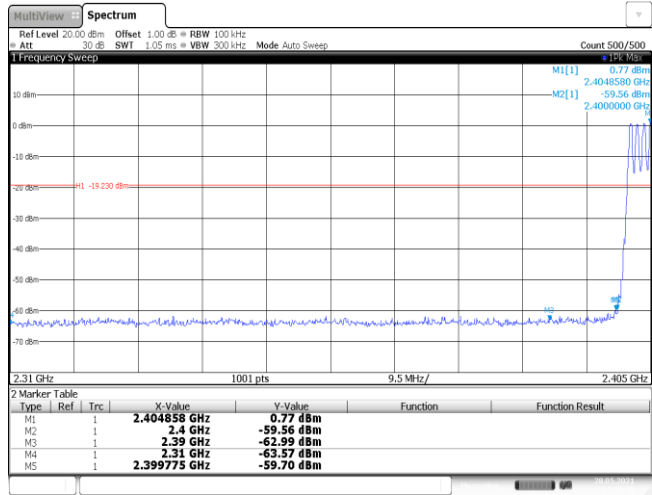
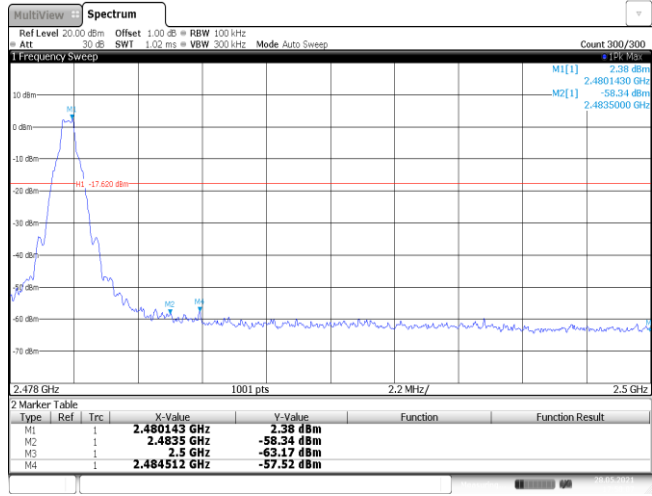
Burst Quantity

8DPSK

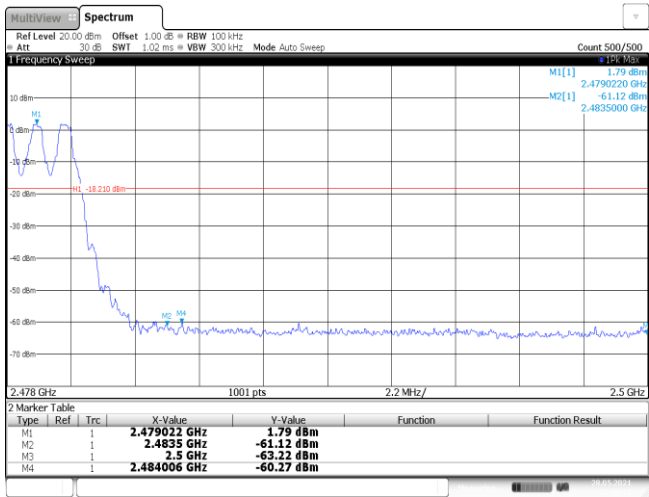
T_{on} time for single burst

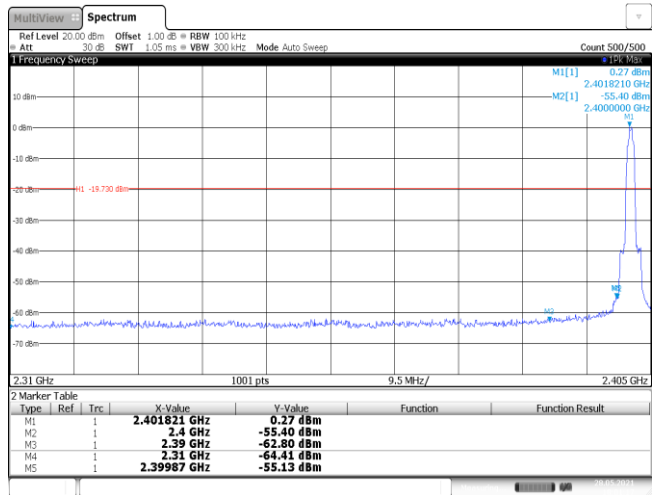
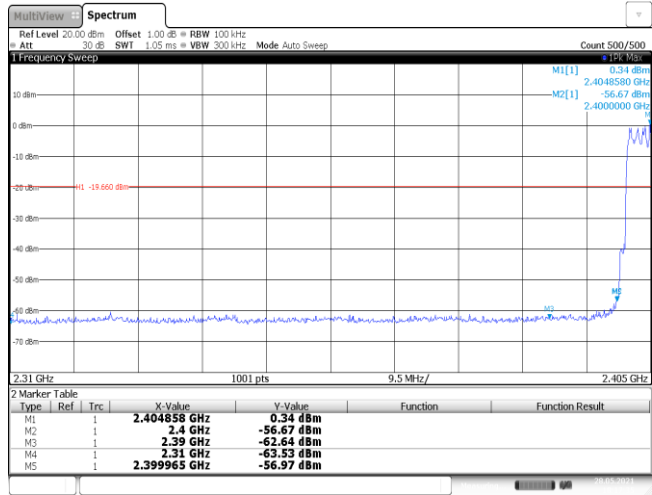
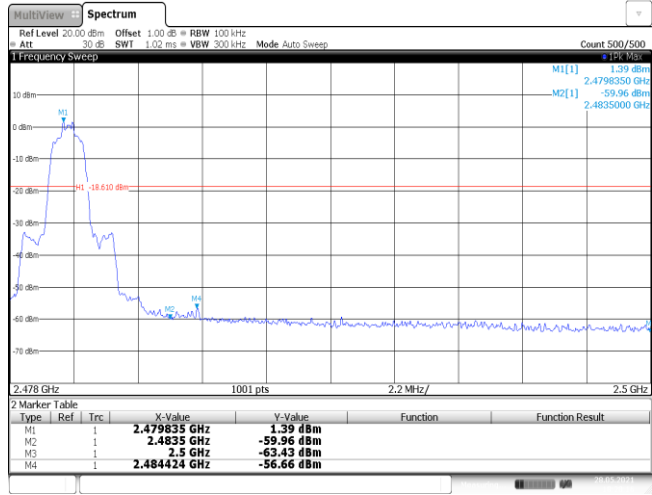
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

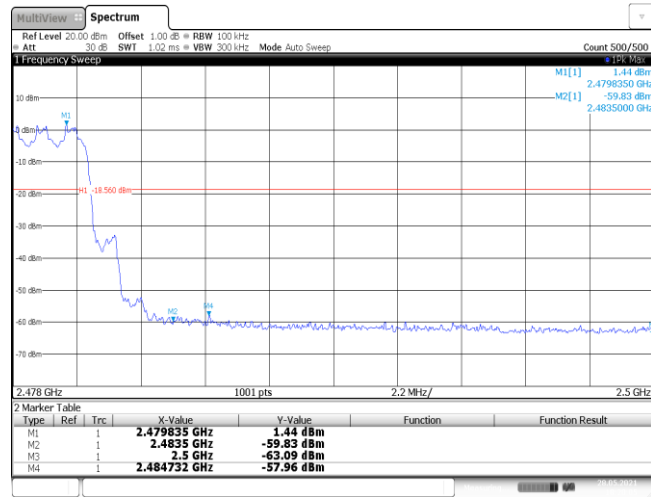
Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>-1.39 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-55.37 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.46 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.73 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-55.14 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 17:27:93	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	-1.39 dBm			M2	1		2.4 GHz	-55.37 dBm			M3	1		2.39 GHz	-61.46 dBm			M4	1		2.31 GHz	-63.73 dBm			M5	1		2.399965 GHz	-55.14 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	-1.39 dBm																																									
M2	1		2.4 GHz	-55.37 dBm																																									
M3	1		2.39 GHz	-61.46 dBm																																									
M4	1		2.31 GHz	-63.73 dBm																																									
M5	1		2.399965 GHz	-55.14 dBm																																									
CH00 Hopping mode	 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.404858 GHz</td><td>-0.77 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-59.56 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.99 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.57 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399775 GHz</td><td>-59.70 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 17:56:58	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404858 GHz	-0.77 dBm			M2	1		2.4 GHz	-59.56 dBm			M3	1		2.39 GHz	-62.99 dBm			M4	1		2.31 GHz	-63.57 dBm			M5	1		2.399775 GHz	-59.70 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404858 GHz	-0.77 dBm																																									
M2	1		2.4 GHz	-59.56 dBm																																									
M3	1		2.39 GHz	-62.99 dBm																																									
M4	1		2.31 GHz	-63.57 dBm																																									
M5	1		2.399775 GHz	-59.70 dBm																																									
CH78 No hopping mode	 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.480143 GHz</td><td>-2.38 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.34 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.17 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484512 GHz</td><td>-57.52 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 17:58:07	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480143 GHz	-2.38 dBm			M2	1		2.4835 GHz	-58.34 dBm			M3	1		2.5 GHz	-63.17 dBm			M4	1		2.484512 GHz	-57.52 dBm											
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.480143 GHz	-2.38 dBm																																									
M2	1		2.4835 GHz	-58.34 dBm																																									
M3	1		2.5 GHz	-63.17 dBm																																									
M4	1		2.484512 GHz	-57.52 dBm																																									

CH78
Hopping mode



Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
CH00 No hopping mode	<table><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><tr><td>M1</td><td>1</td><td></td><td>2.401821 GHz</td><td>0.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-55.40 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.80 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.41 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39987 GHz</td><td>-55.13 dBm</td><td></td><td></td></tr></table> Date: 28.MAY.2021 18:01:47			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	0.27 dBm			M2	1		2.4 GHz	-55.40 dBm			M3	1		2.39 GHz	-62.80 dBm			M4	1		2.31 GHz	-64.41 dBm			M5	1		2.39987 GHz	-55.13 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401821 GHz	0.27 dBm																																									
M2	1		2.4 GHz	-55.40 dBm																																									
M3	1		2.39 GHz	-62.80 dBm																																									
M4	1		2.31 GHz	-64.41 dBm																																									
M5	1		2.39987 GHz	-55.13 dBm																																									
CH00 Hopping mode	<table><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><tr><td>M1</td><td>1</td><td></td><td>2.404858 GHz</td><td>0.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.67 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.64 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.53 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-56.97 dBm</td><td></td><td></td></tr></table> Date: 28.MAY.2021 18:17:36			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404858 GHz	0.34 dBm			M2	1		2.4 GHz	-56.67 dBm			M3	1		2.39 GHz	-62.64 dBm			M4	1		2.31 GHz	-63.53 dBm			M5	1		2.399965 GHz	-56.97 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404858 GHz	0.34 dBm																																									
M2	1		2.4 GHz	-56.67 dBm																																									
M3	1		2.39 GHz	-62.64 dBm																																									
M4	1		2.31 GHz	-63.53 dBm																																									
M5	1		2.399965 GHz	-56.97 dBm																																									
CH78 No hopping mode	<table><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><tr><td>M1</td><td>1</td><td></td><td>2.479835 GHz</td><td>1.39 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.96 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.43 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484424 GHz</td><td>-56.66 dBm</td><td></td><td></td></tr></table> Date: 28.MAY.2021 18:28:16			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	1.39 dBm			M2	1		2.4835 GHz	-59.96 dBm			M3	1		2.5 GHz	-63.43 dBm			M4	1		2.484424 GHz	-56.66 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479835 GHz	1.39 dBm																																									
M2	1		2.4835 GHz	-59.96 dBm																																									
M3	1		2.5 GHz	-63.43 dBm																																									
M4	1		2.484424 GHz	-56.66 dBm																																									

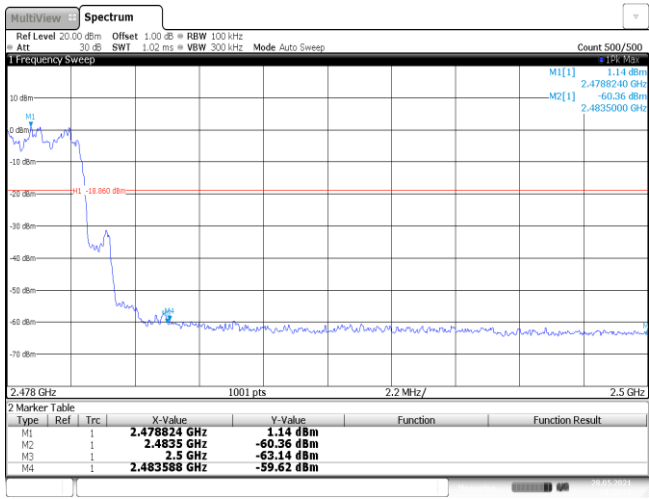
CH78
Hopping mode



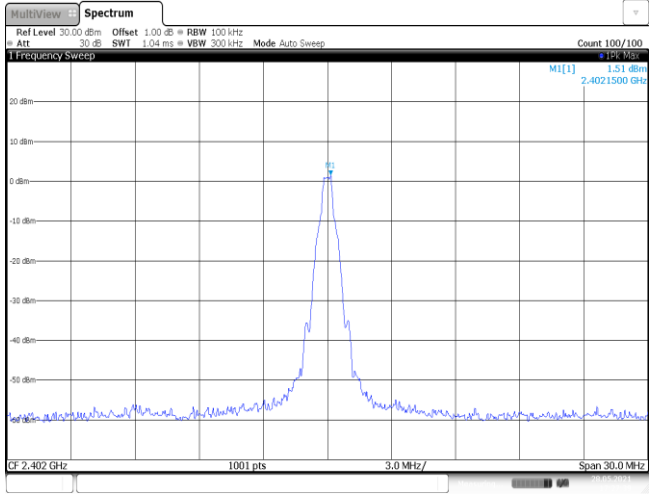
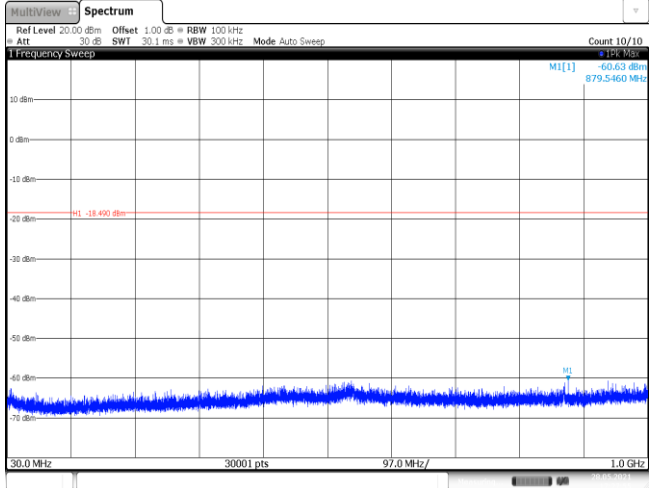
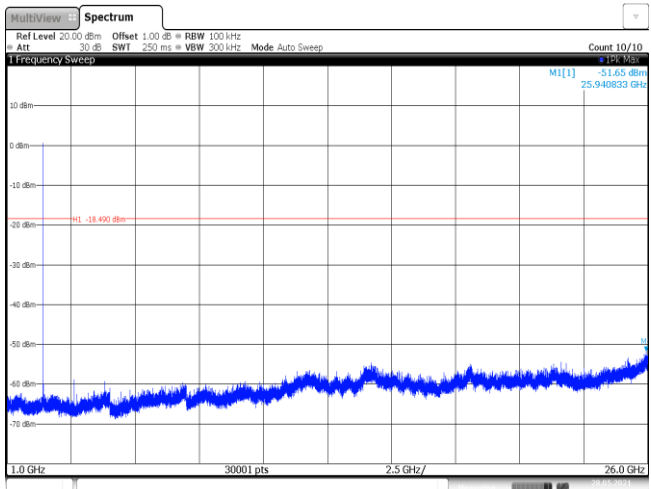
Date: 28 MAY 2021 18:20:06

Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 0.37 dBm 2.4021050 GHz M2[1] -53.53 dBm 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>0.37 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.53 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.18 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.38 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-54.14 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 19:11:27			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	0.37 dBm			M2	1		2.4 GHz	-53.53 dBm			M3	1		2.39 GHz	-62.18 dBm			M4	1		2.31 GHz	-64.38 dBm			M5	1		2.399965 GHz	-54.14 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	0.37 dBm																																									
M2	1		2.4 GHz	-53.53 dBm																																									
M3	1		2.39 GHz	-62.18 dBm																																									
M4	1		2.31 GHz	-64.38 dBm																																									
M5	1		2.399965 GHz	-54.14 dBm																																									
CH00 Hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -0.56 dBm 2.4049530 GHz M2[1] -56.18 dBm 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.404953 GHz</td><td>-0.56 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.18 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.28 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.72 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39968 GHz</td><td>-55.90 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 19:19:44			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	-0.56 dBm			M2	1		2.4 GHz	-56.18 dBm			M3	1		2.39 GHz	-62.28 dBm			M4	1		2.31 GHz	-63.72 dBm			M5	1		2.39968 GHz	-55.90 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404953 GHz	-0.56 dBm																																									
M2	1		2.4 GHz	-56.18 dBm																																									
M3	1		2.39 GHz	-62.28 dBm																																									
M4	1		2.31 GHz	-63.72 dBm																																									
M5	1		2.39968 GHz	-55.90 dBm																																									
CH78 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 1.50 dBm 2.4801430 GHz M2[1] -58.43 dBm 2.4835000 GHz 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.480143 GHz</td><td>1.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.43 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-62.98 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483544 GHz</td><td>-58.13 dBm</td><td></td><td></td></tr></table> Date: 28 MAY 2021 19:26:05			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480143 GHz	1.50 dBm			M2	1		2.4835 GHz	-58.43 dBm			M3	1		2.5 GHz	-62.98 dBm			M4	1		2.483544 GHz	-58.13 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.480143 GHz	1.50 dBm																																									
M2	1		2.4835 GHz	-58.43 dBm																																									
M3	1		2.5 GHz	-62.98 dBm																																									
M4	1		2.483544 GHz	-58.13 dBm																																									

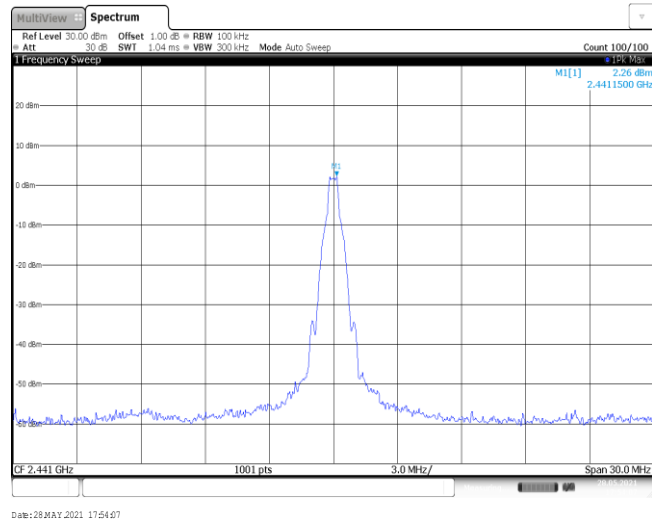
CH78
Hoppig mode



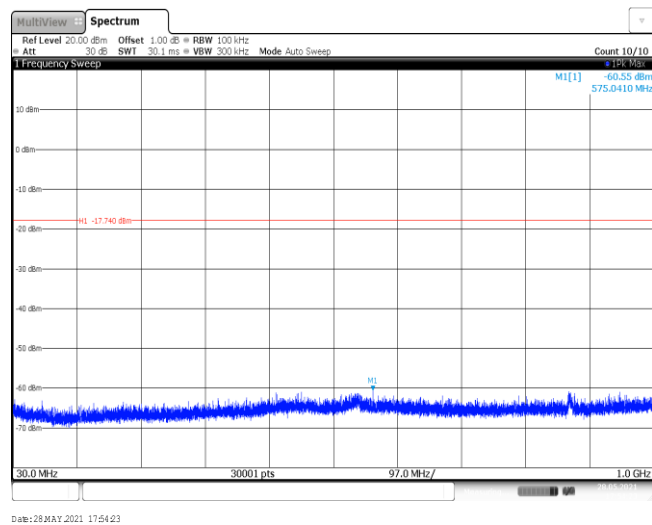
Date: 28 MAY 2021 19:20:22

Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

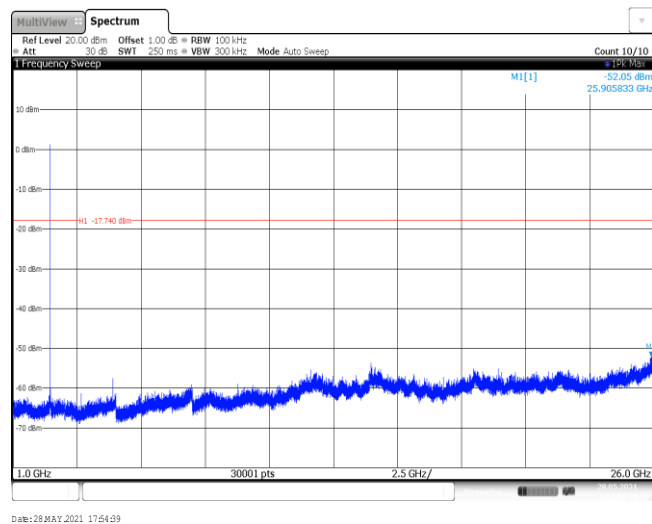
CH39
Reference level



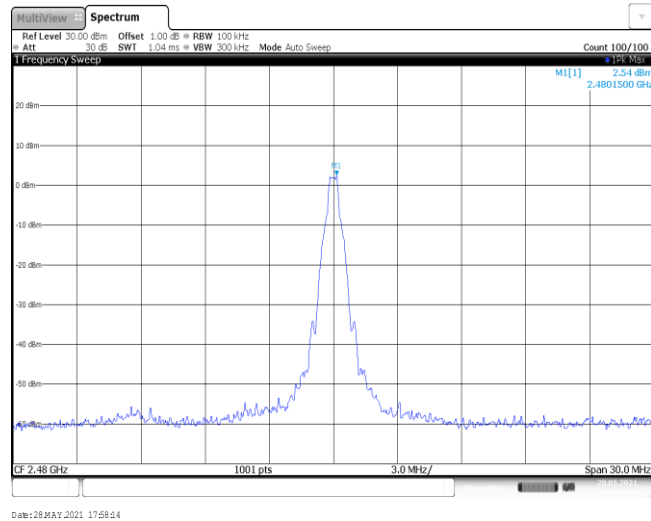
CH39
30MHz~1000MHz



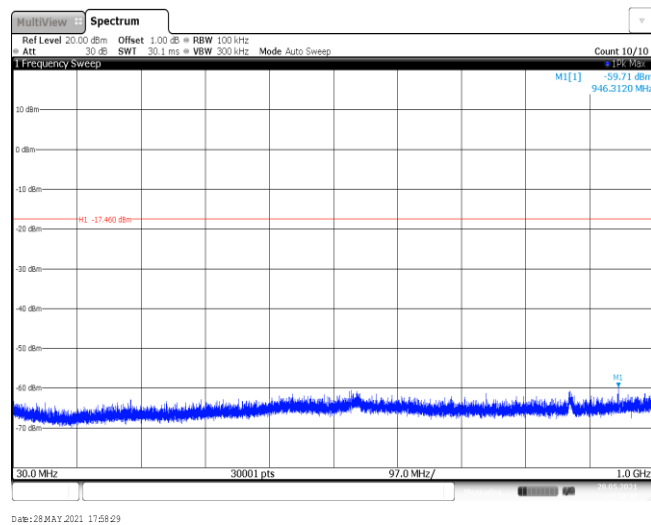
CH39
1GHz~26GHz



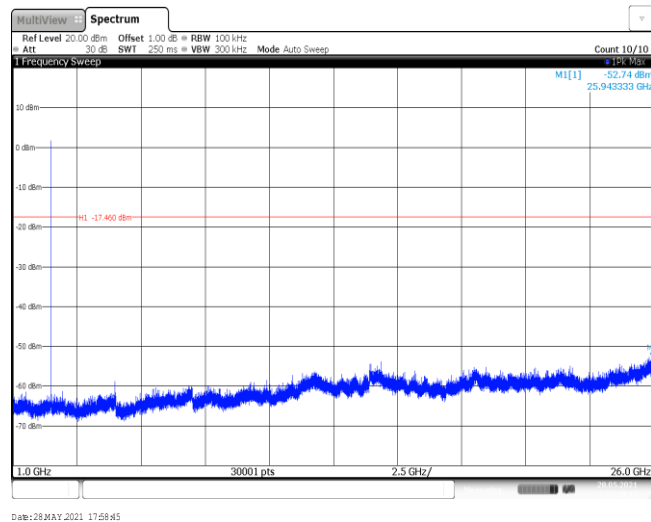
CH78
Reference level

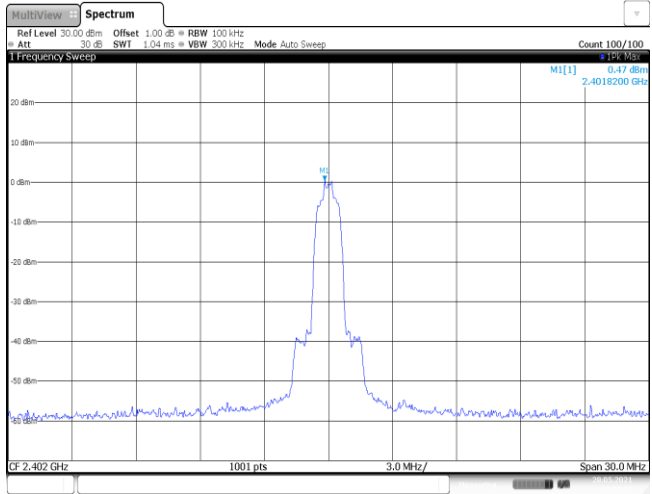
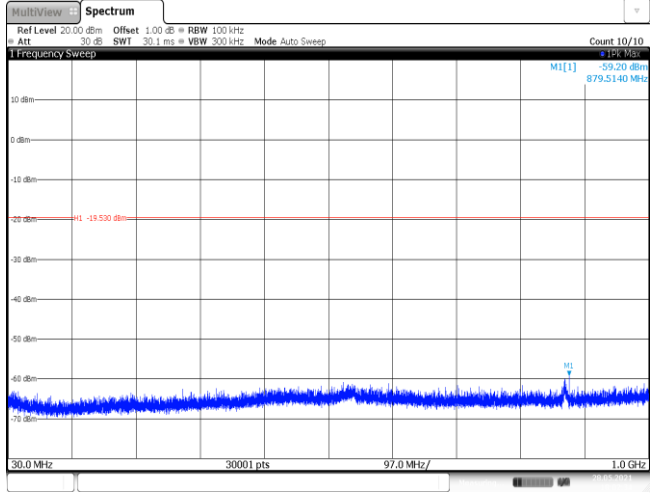
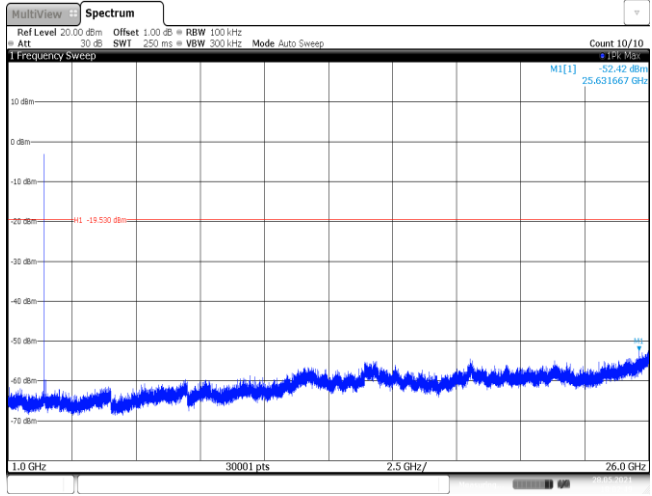


CH78
30MHz~1000MHz

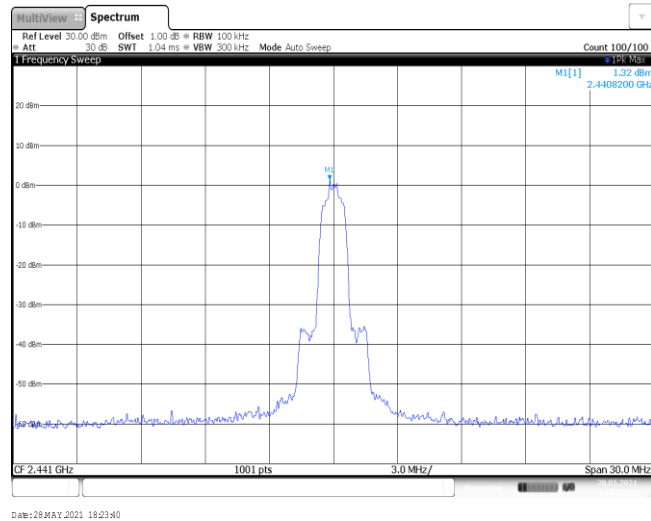


CH78
1GHz~26GHz

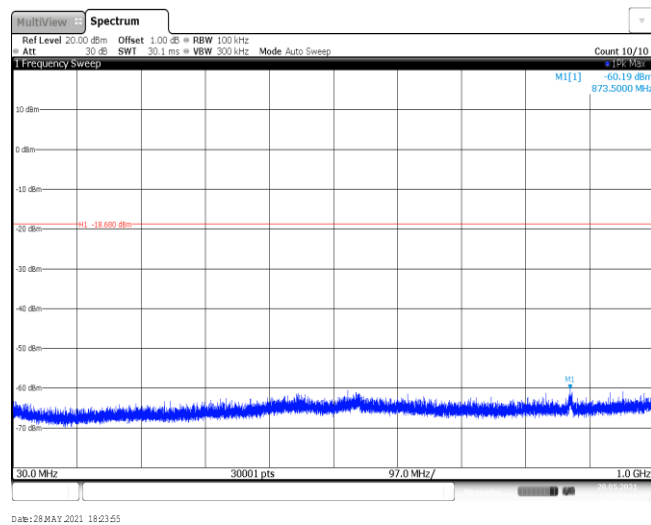


Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level	 Date: 28 MAY 2021 18:02:48		
CH00 30MHz~1000MHz	 Date: 28 MAY 2021 18:02:34		
CH00 1GHz~26GHz	 Date: 28 MAY 2021 18:02:50		

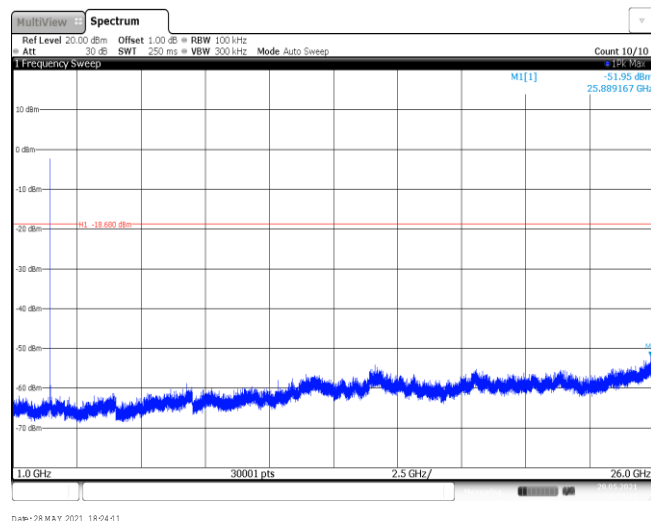
CH39
Reference level



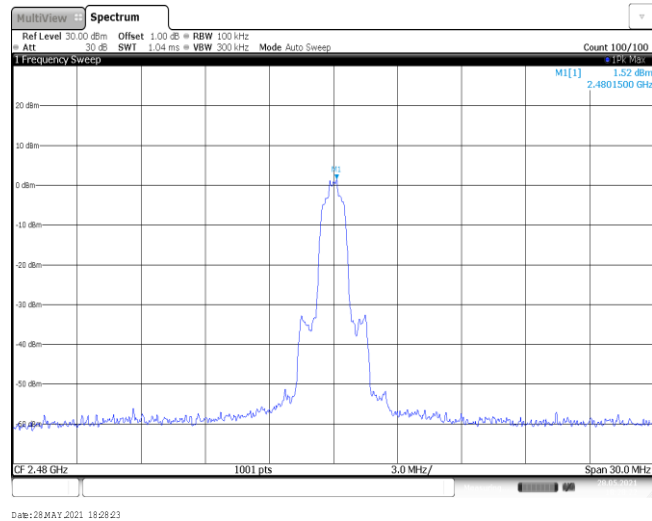
CH39
30MHz~1000MHz



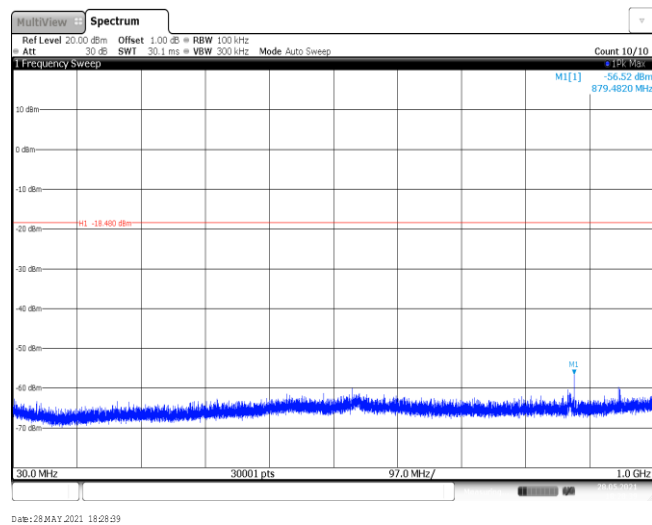
CH39
1GHz~26GHz



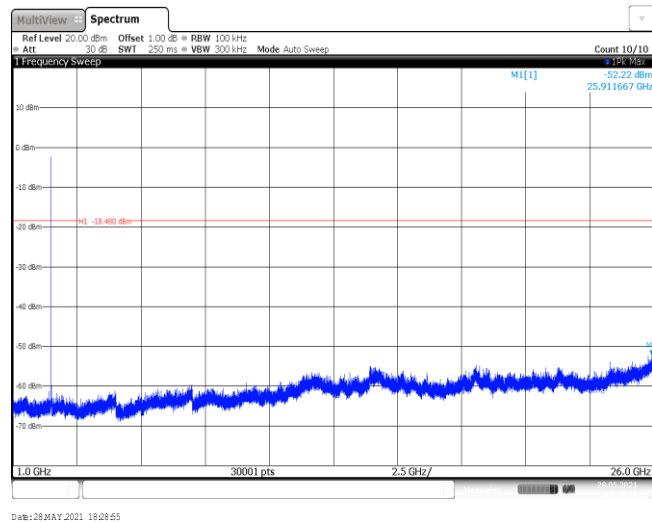
CH78
Reference level

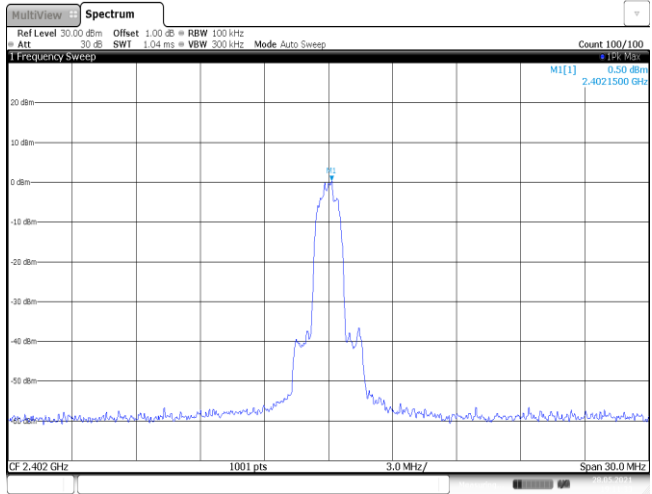
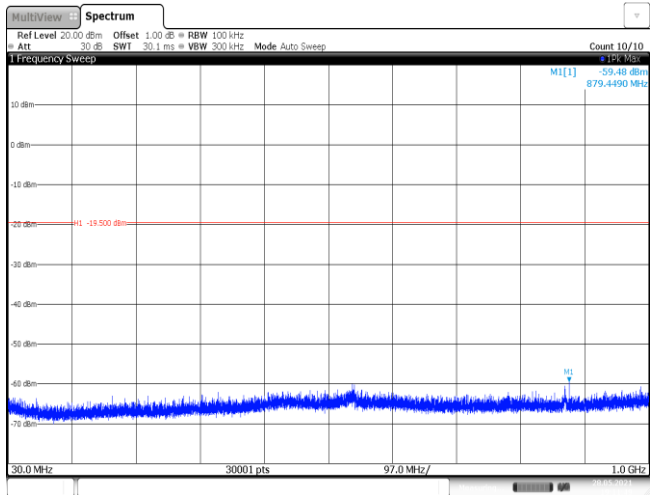
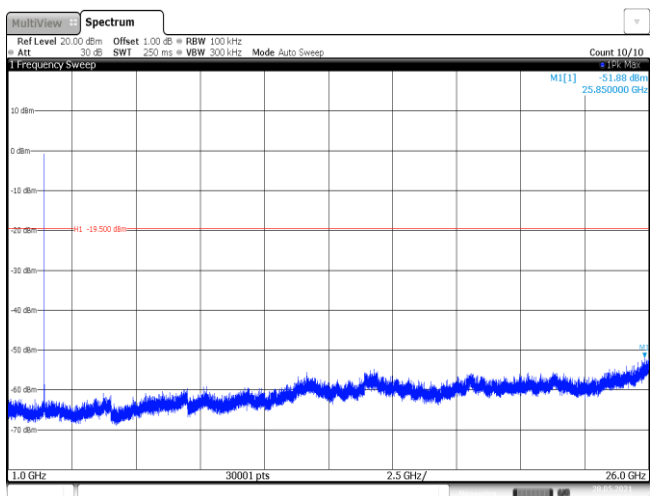


CH78
30MHz~1000MHz

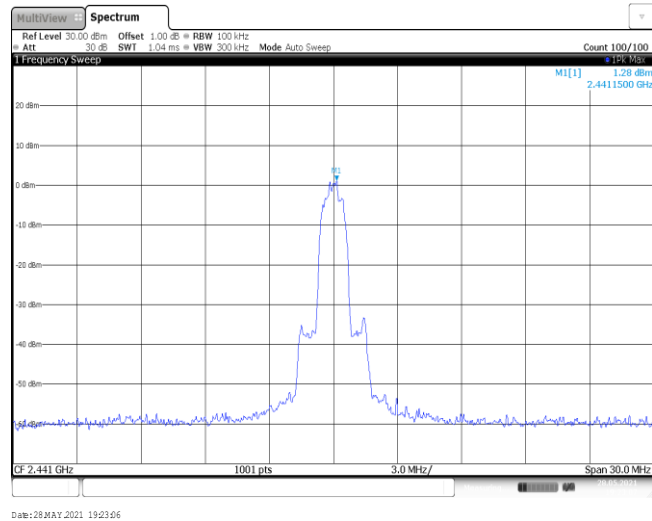


CH78
1GHz~26GHz

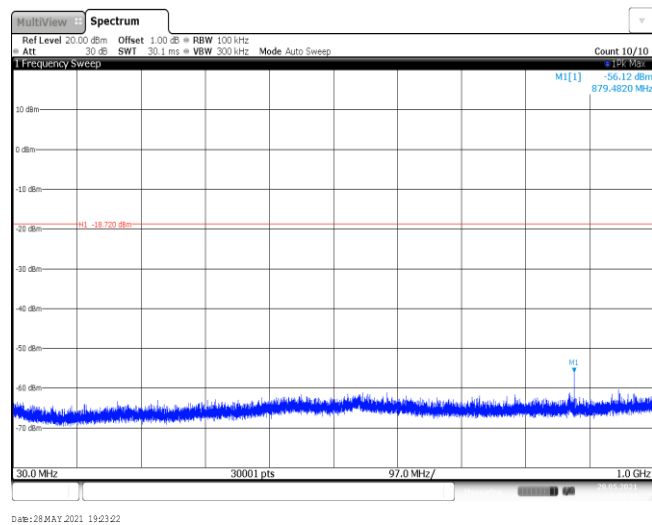


Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -0.50 dBm 2.4021500 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 28 MAY 2021 19:11:33		
CH00 30MHz~1000MHz	 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 M1[1] -59.48 dBm 879.4490 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 28 MAY 2021 19:11:49		
CH00 1GHz~26GHz	 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 M1[1] -51.88 dBm 25.850000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 28 MAY 2021 19:12:05		

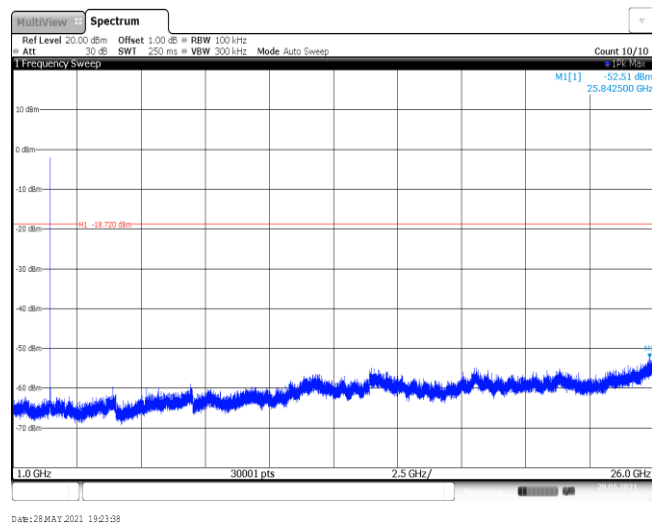
CH39
Reference level

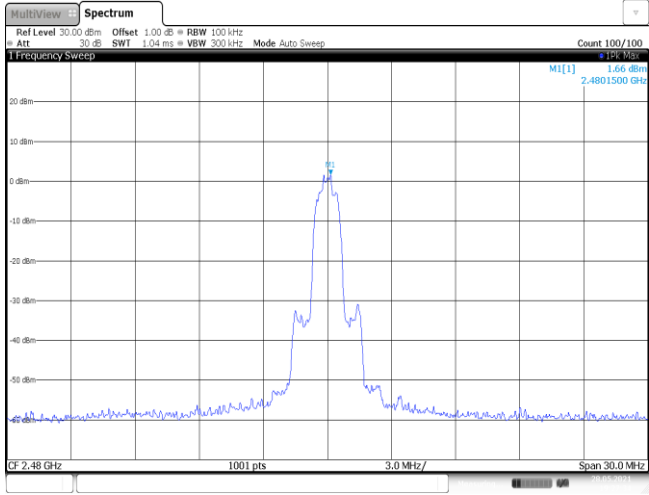
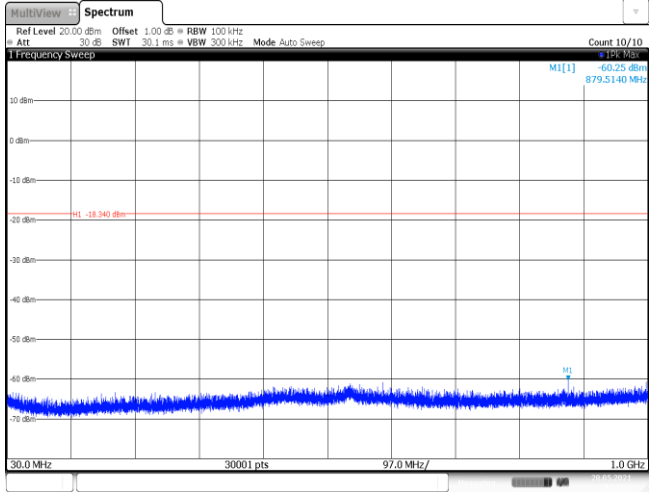
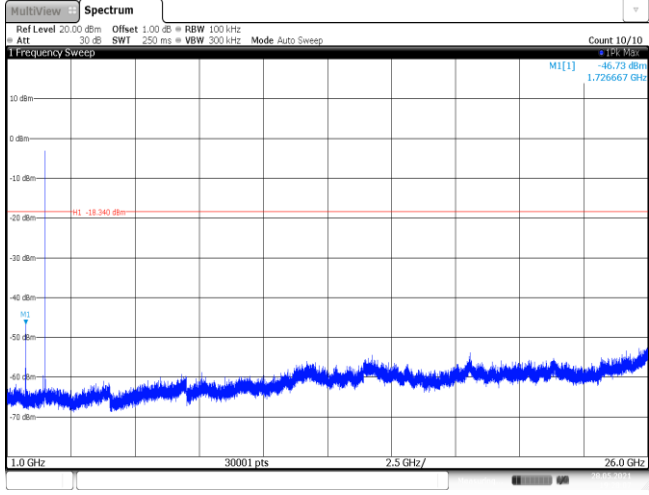


CH39
30MHz~1000MHz



CH39
1GHz~26GHz



CH78 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 1.66 dBm 2.4801500 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 28 MAY 2021 19:27:55
CH78 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.25 dBm 879.5140 MHz H1 -18.340 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 28 MAY 2021 19:27:51
CH78 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -46.73 dBm 1.726667 GHz H1 -18.340 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 28 MAY 2021 19:28:07

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