

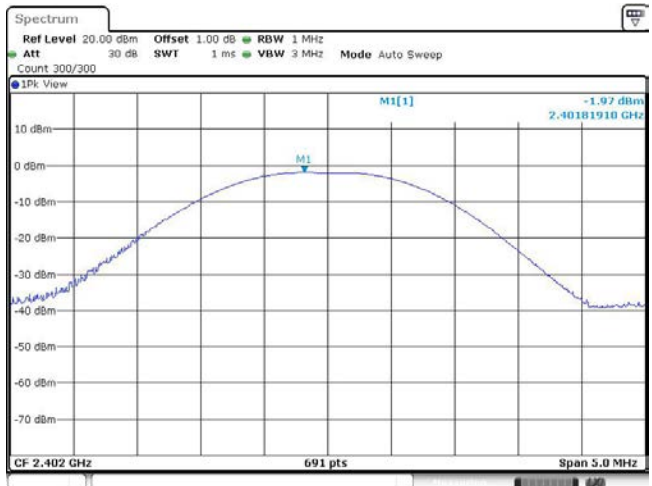
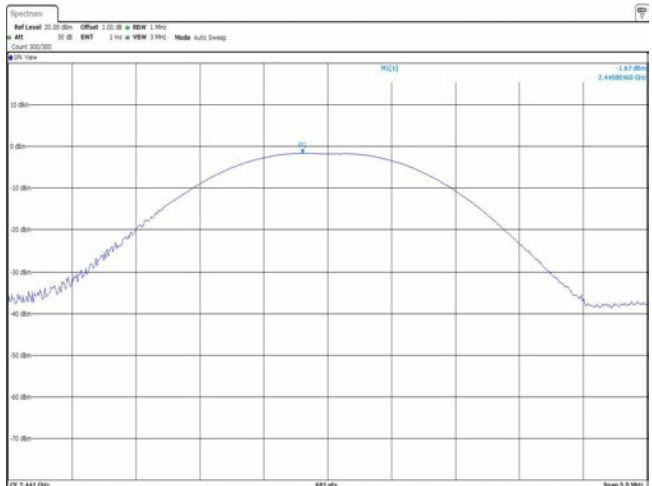
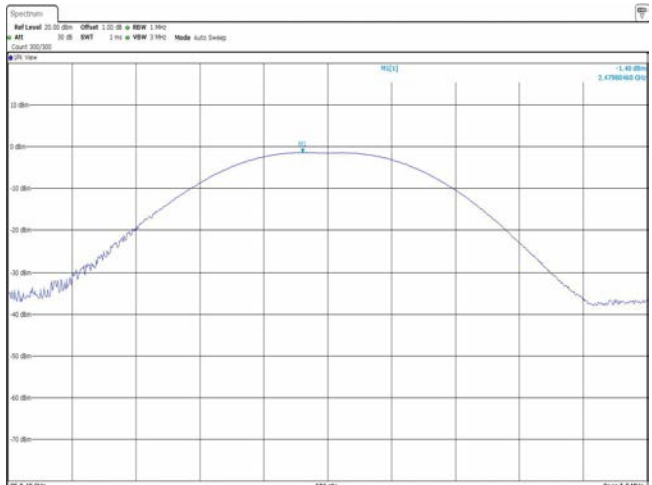
APPENDIX REPORT

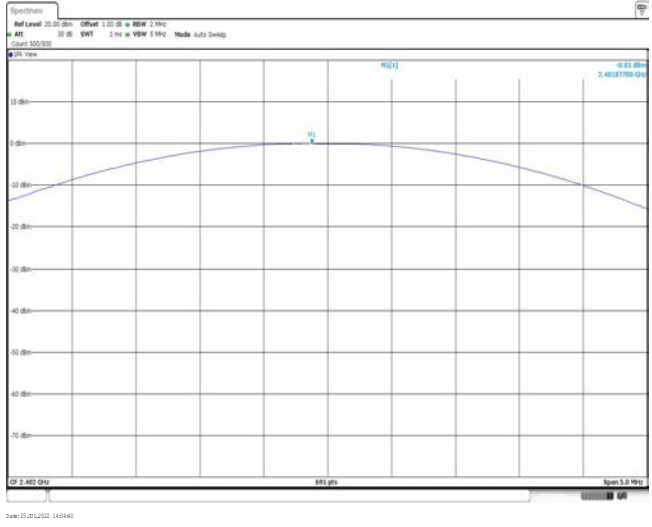
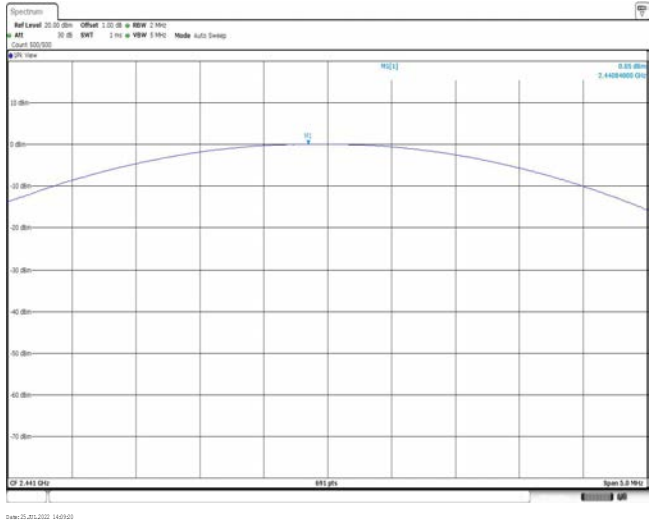
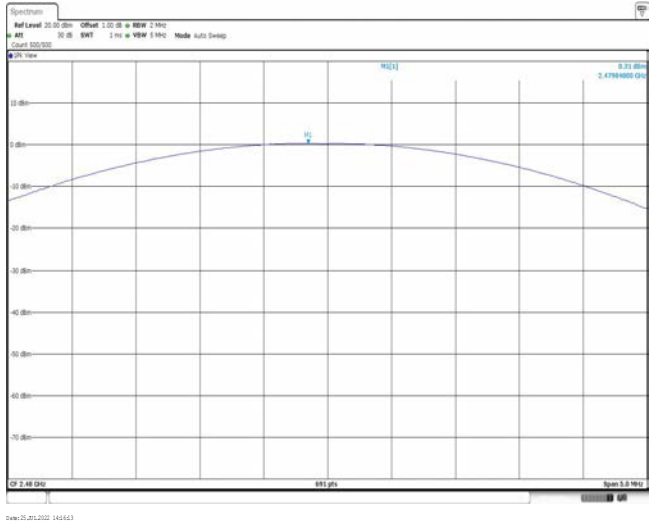
Project No.	SHT2207065101EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22070651003	Model No.	P270
Start test date	2022-07-25	Finish date	2022-07-25
Temperature	25.9℃	Humidity	31%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zheo

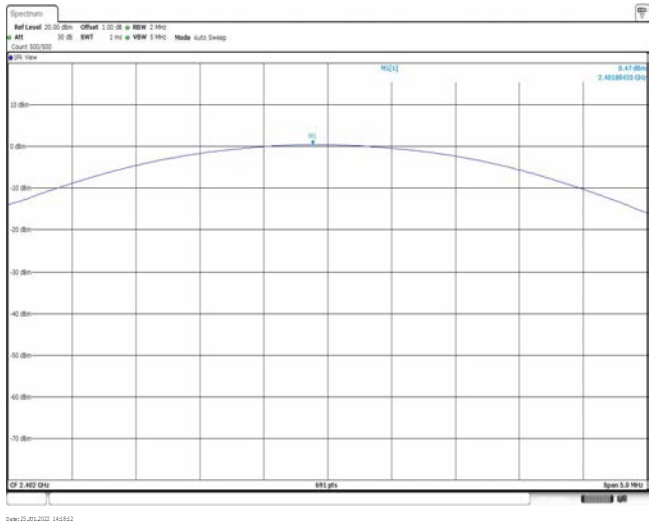
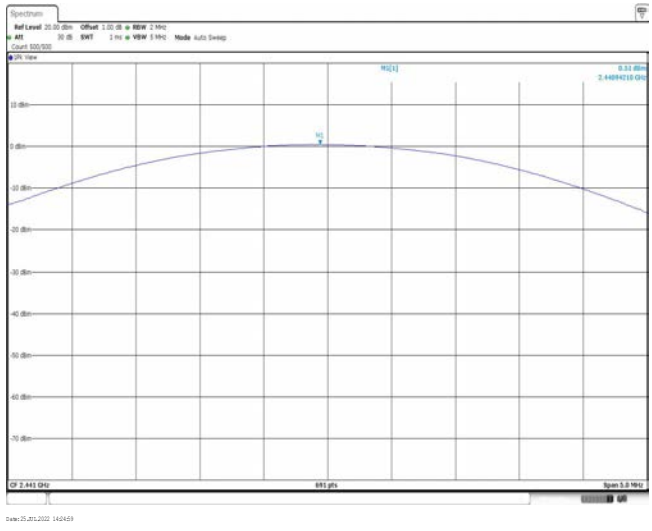
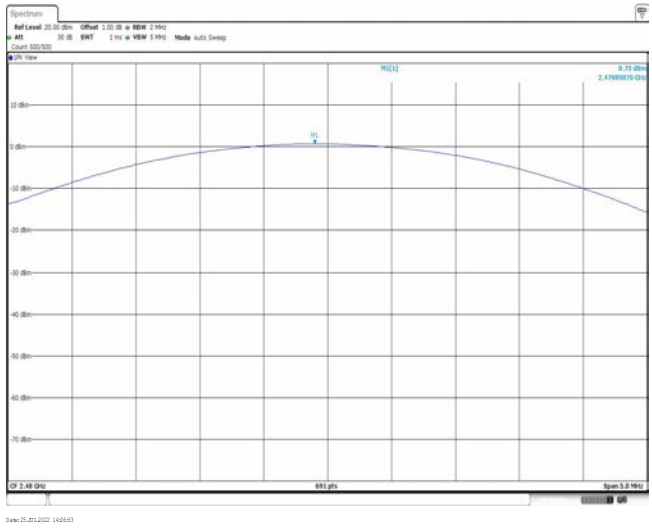
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-1.97	-1.98	≤ 30.00	Pass
	39	-1.67	-1.75		
	78	-1.40	-1.46		
$\pi/4$ DQPSK	00	-0.01	-1.02	≤ 21.00	Pass
	39	0.05	-1.84		
	78	0.31	-1.96		
8DPSK	00	0.47	-1.00	≤ 21.00	Pass
	39	0.51	-0.93		
	78	0.73	-0.70		

Modulation Type:	GFSK
CH00	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.97 dBm 2.40181910 GHz CF 2.402 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 13:47:56
CH39	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.67 dBm 2.40080600 GHz CF 2.401 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 13:51:09
CH78	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.40 dBm 2.40080600 GHz CF 2.40 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 14:01:30

Modulation Type:	$\pi/4$ DQPSK
CH00	
CH39	
CH78	

Modulation Type:	8DPSK
CH00	
CH39	
CH78	

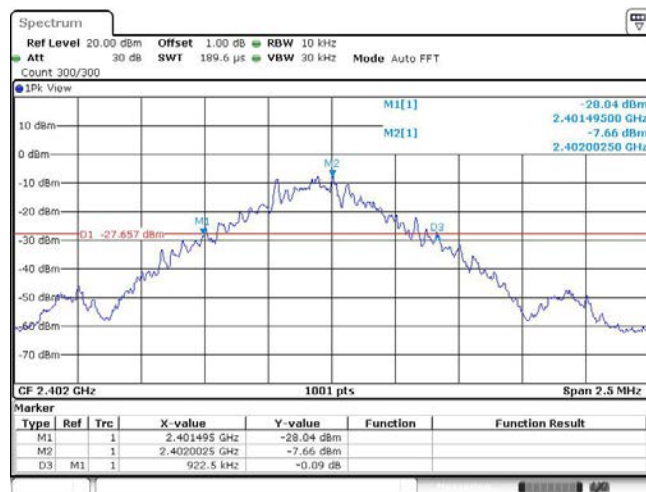
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	922.50	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1282.50	-	Pass
	39	1282.50		
	78	1285.00		
8DPSK	00	1290.00	-	Pass
	39	1292.50		
	78	1292.50		

Modulation Type:

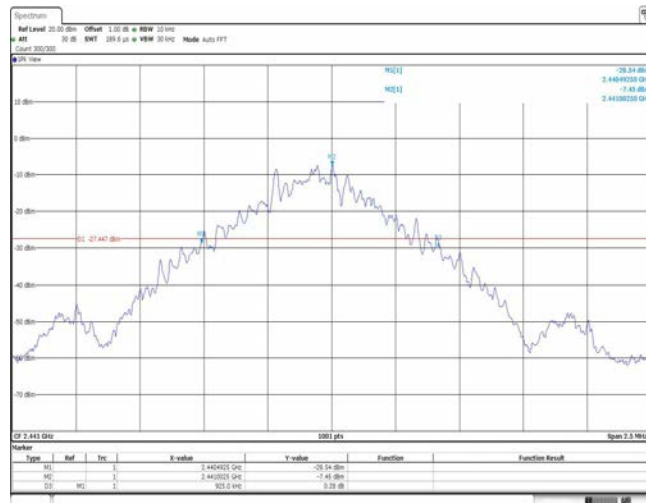
GFSK

CH00



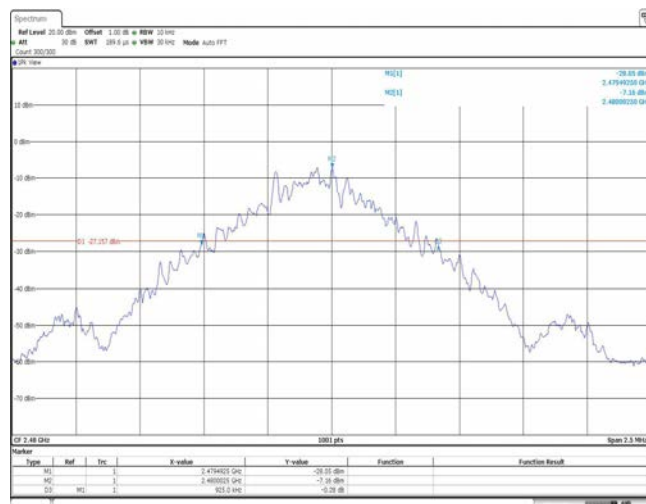
Date: 25 JUL 2022 13:51:48

CH39



Date: 25 JUL 2022 13:44:50

CH78

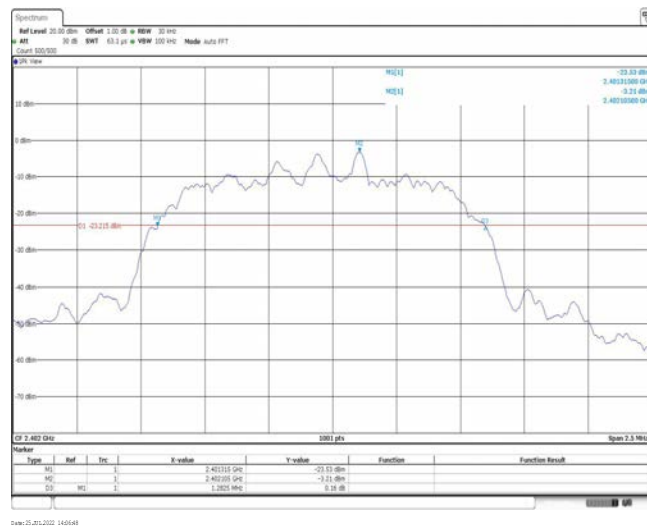


Date: 25 JUL 2022 14:01:51

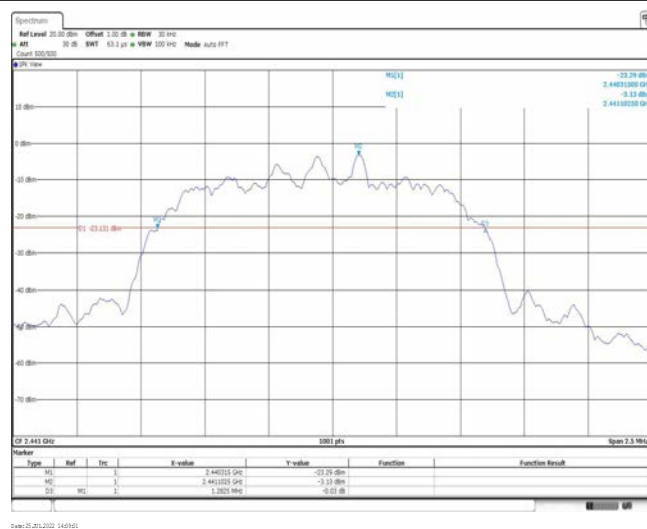
Modulation Type:

 $\pi/4$ DQPSK

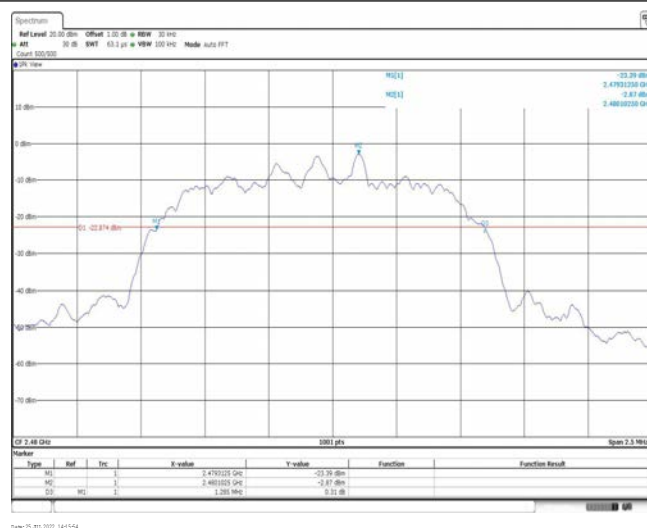
CH00

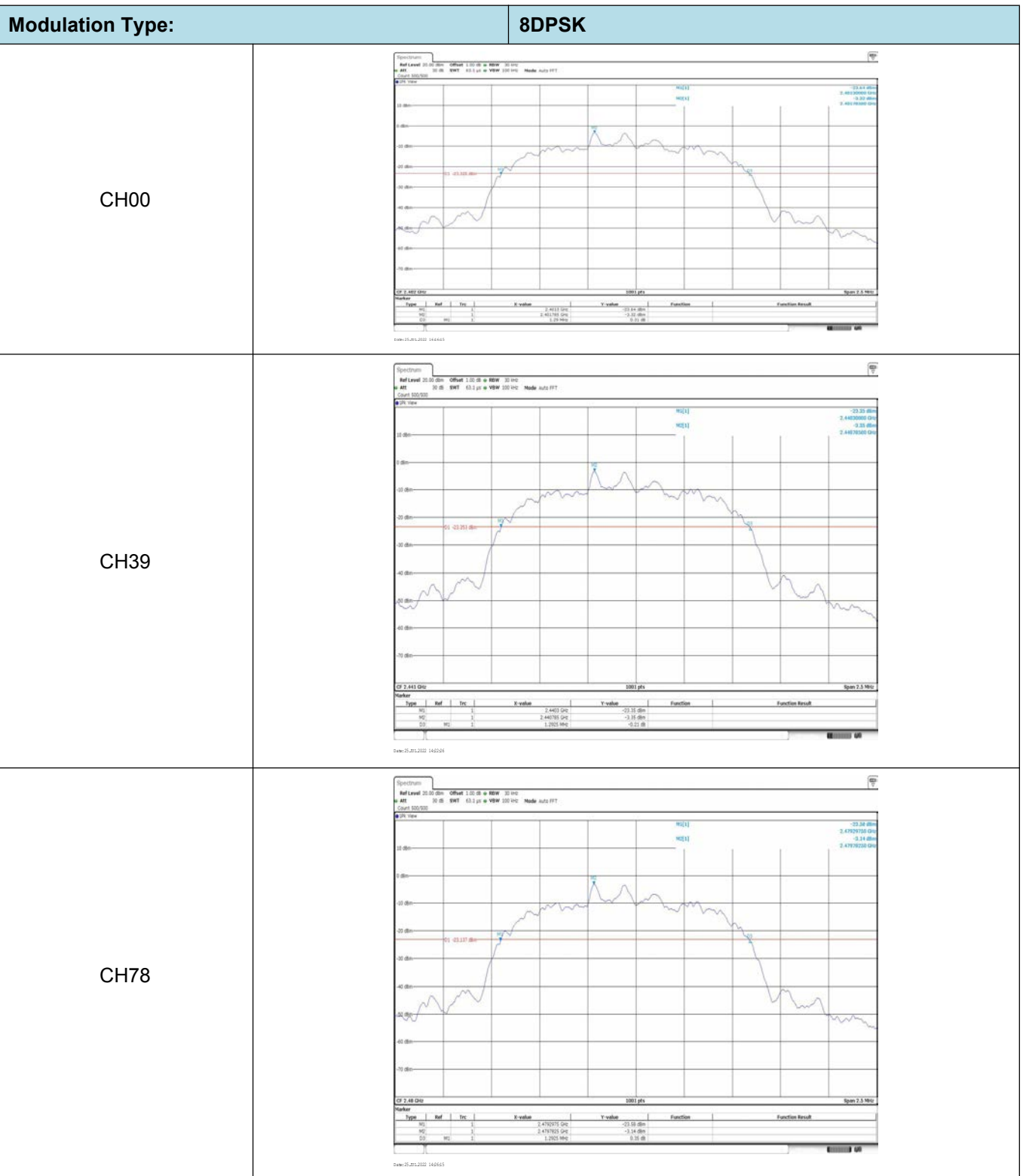


CH39



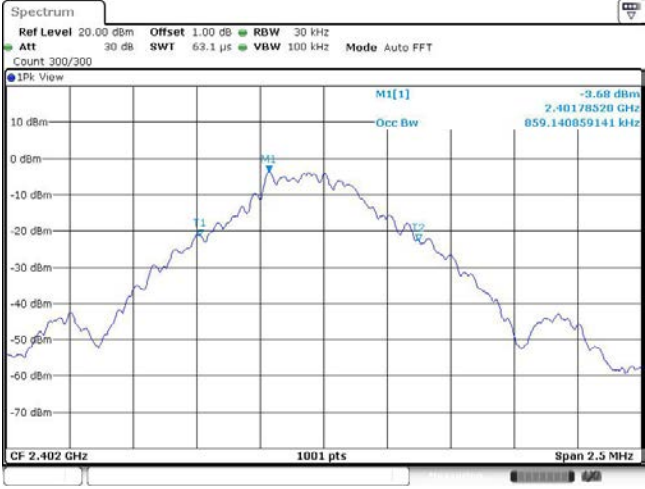
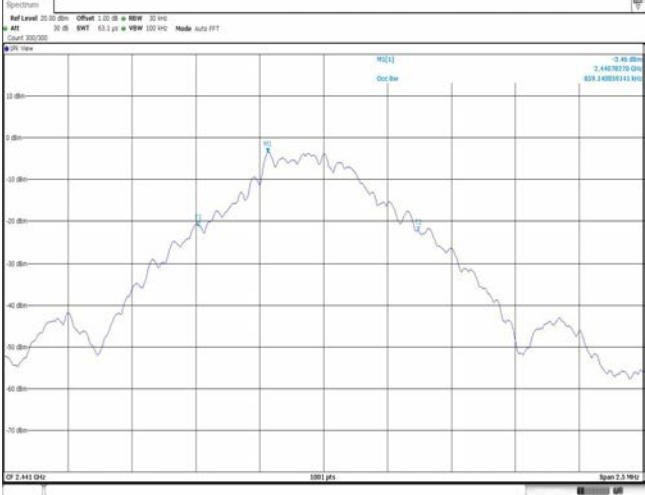
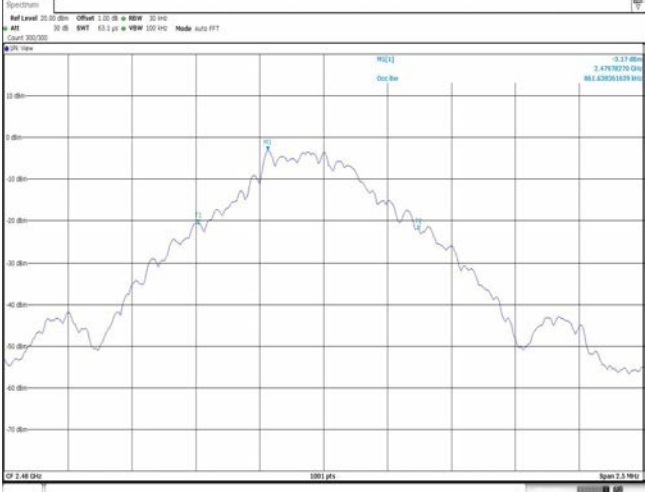
CH78

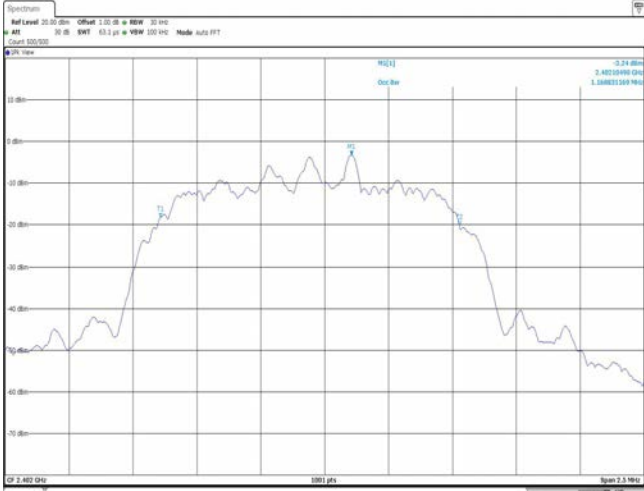
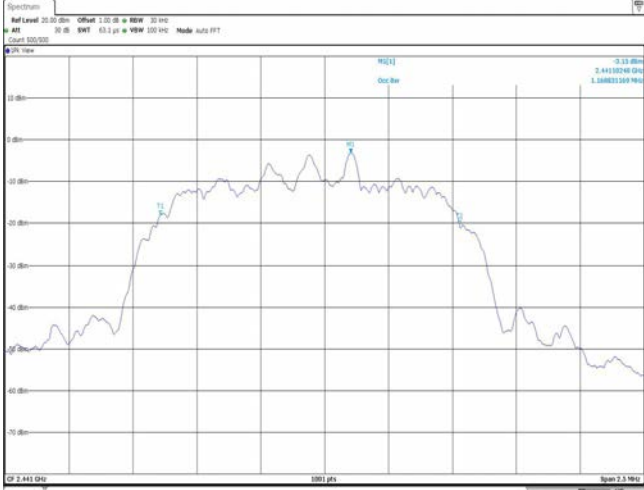
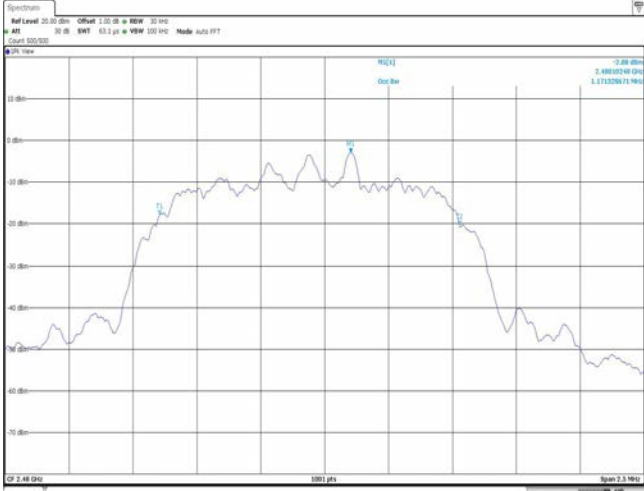




Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.86	-	Pass
	39	0.86		
	78	0.86		
$\pi/4$ DQPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		
8DPSK	00	1.18	-	Pass
	39	1.17		
	78	1.17		

Modulation Type:	GFSK
CH00	 Date: 25 JUL 2022 13:51:56
CH39	 Date: 25 JUL 2022 13:54:01
CH78	 Date: 25 JUL 2022 14:01:01

Modulation Type:	$\pi/4$ DQPSK
CH00	 File: 15_01_2012_145621
CH39	 File: 15_01_2012_145621
CH78	 File: 15_01_2012_145621

Modulation Type:

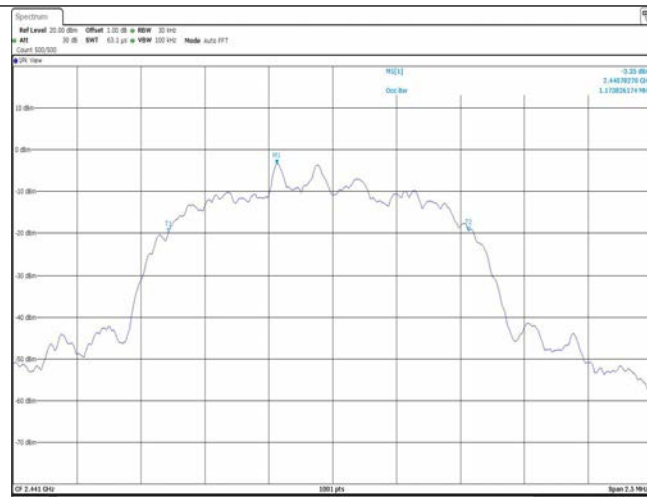
8DPSK

CH00



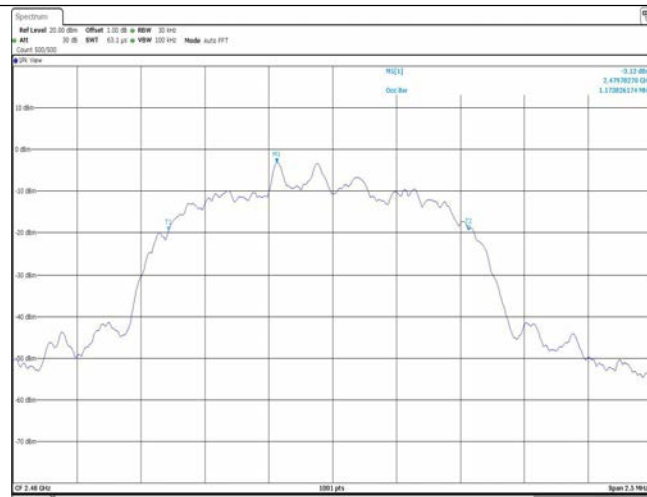
Date: 26.7.2022 14:21:38

CH39



Date: 26.7.2022 14:22:04

CH78



Date: 26.7.2022 14:22:04

Appendix D: Carrier Frequencies Separation

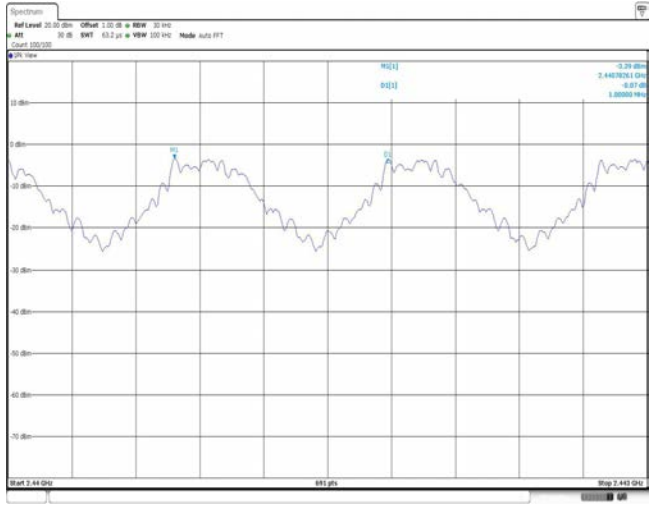
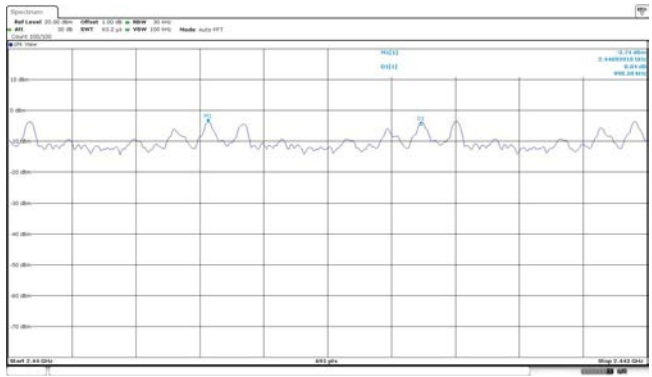
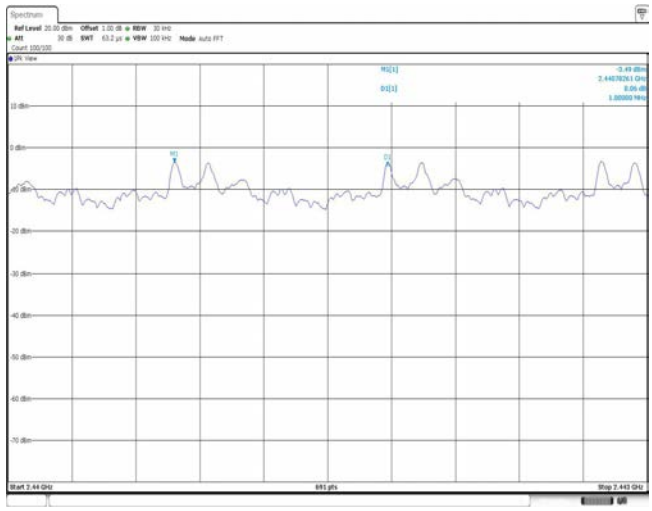
Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925.00	Pass
π/4DQPSK	39	1.00	≥856.67	Pass
8DPSK	39	1.00	≥863.33	Pass

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	

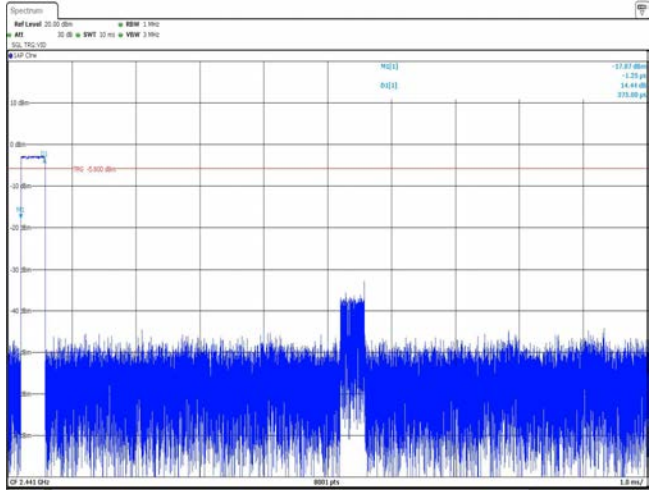
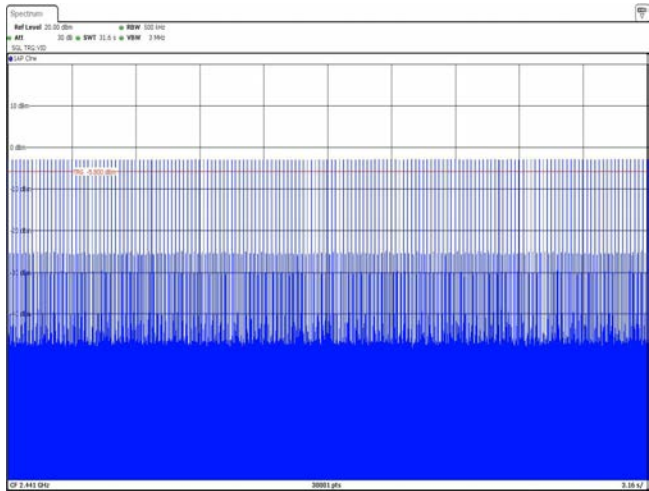
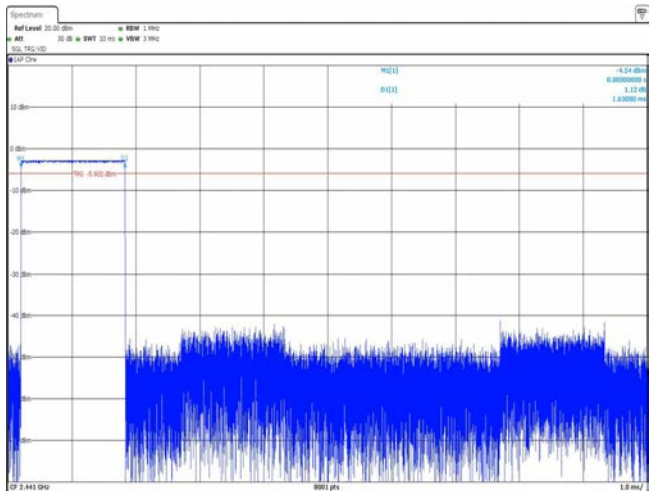
Appendix E: Hopping Channel Number

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

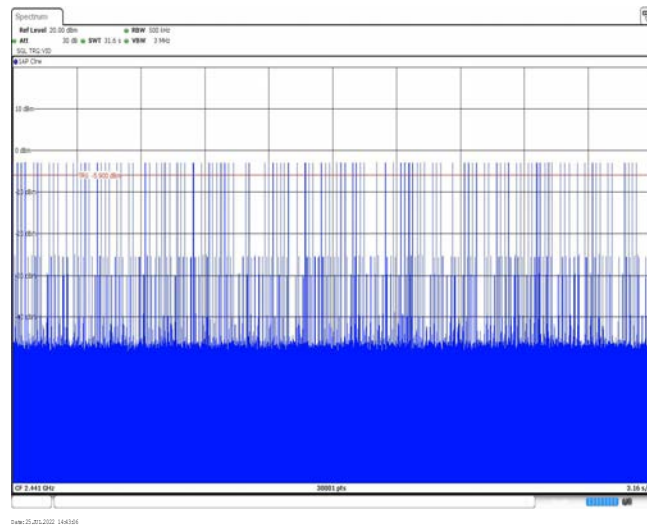
Appendix report page: 17 of 41

Appendix F: Dwell Time

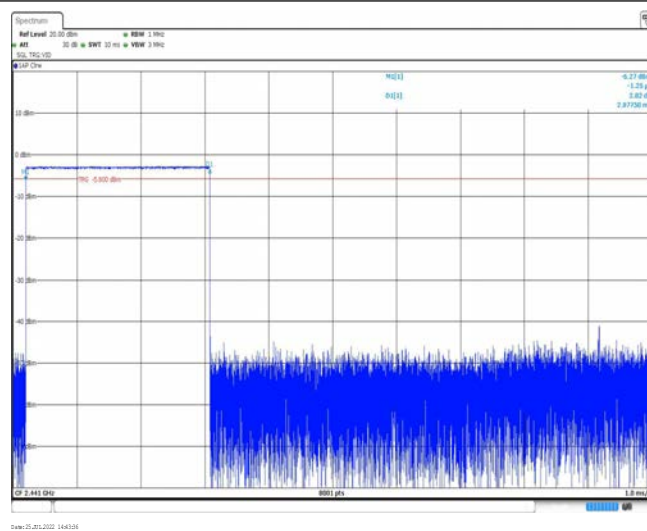
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	319	0.12	≤ 0.40	Pass
	DH3	1.63	146	0.24		
	DH5	2.88	107	0.31		
$\pi/4$ DQPSK	2DH1	0.38	315	0.12	≤ 0.40	Pass
	2DH3	1.64	163	0.27		
	2DH5	2.88	111	0.32		
8DPSK	3DH1	0.38	316	0.12	≤ 0.40	Pass
	3DH3	1.64	155	0.25		
	3DH5	2.89	109	0.32		

Modulation Type:	GFSK
DH1 Burst width	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line is drawn at -5.00 dBm. The signal is a burst of GFSK modulation, with a peak power of approximately -1.25 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level: 20.00 dBm, BW: 1.00 MHz, and a date/time stamp of 20.01.2022 14:45:27.
DH1 Burst number	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line is drawn at -5.00 dBm. The signal is a burst of GFSK modulation, with a peak power of approximately -1.25 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level: 20.00 dBm, BW: 1.00 MHz, and a date/time stamp of 20.01.2022 14:45:27.
DH3 Burst width	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line is drawn at -5.00 dBm. The signal is a burst of GFSK modulation, with a peak power of approximately -1.25 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level: 20.00 dBm, BW: 1.00 MHz, and a date/time stamp of 20.01.2022 14:45:27.

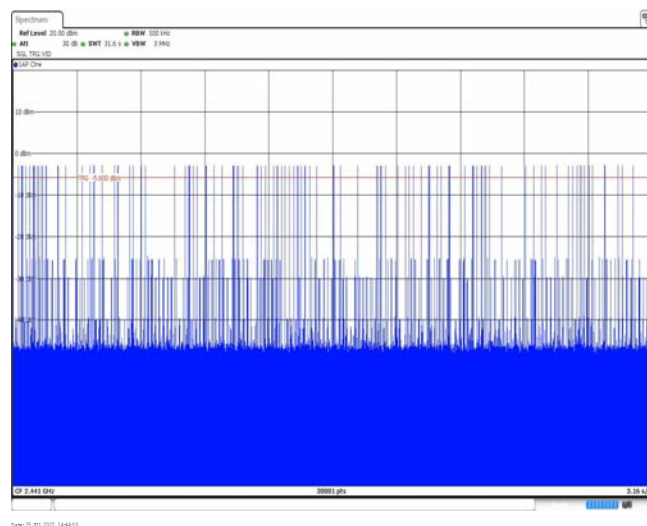
DH3
Burst number

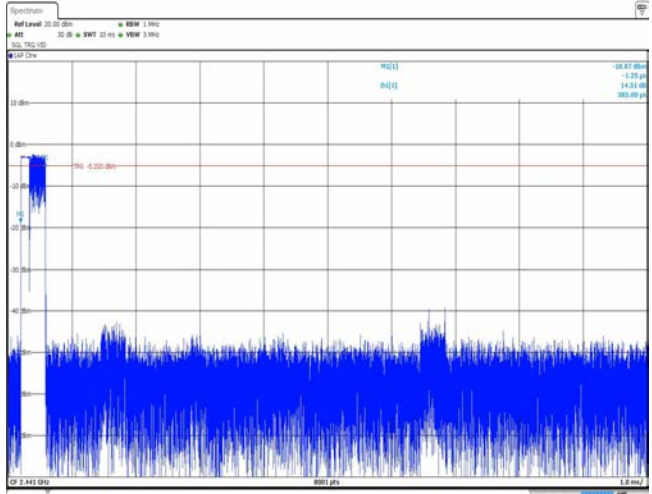
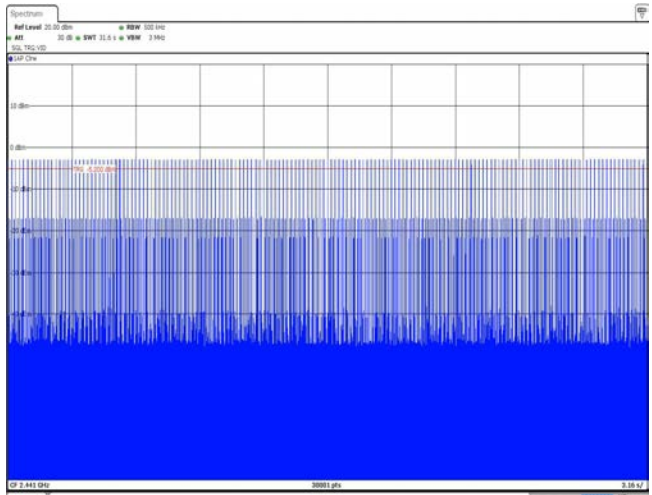
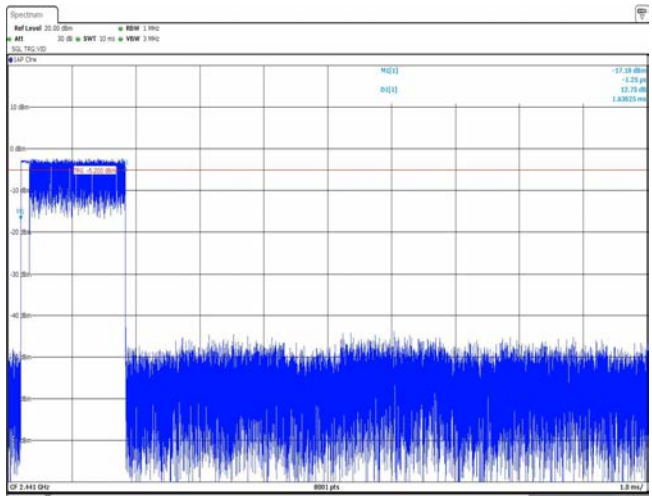


DH5
Burst width

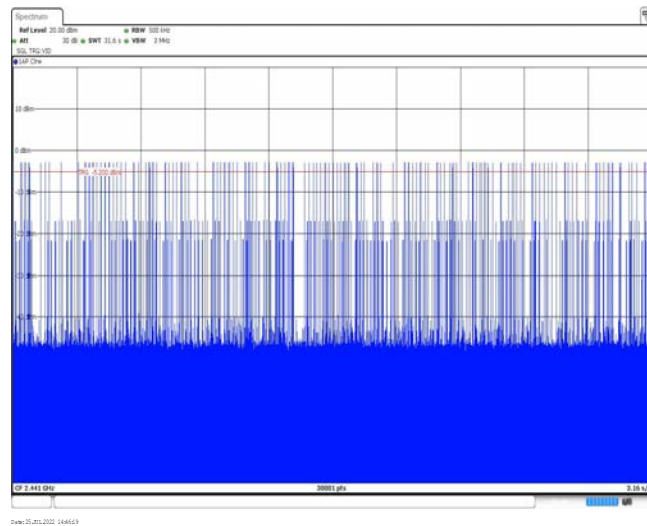


DH5
Burst number

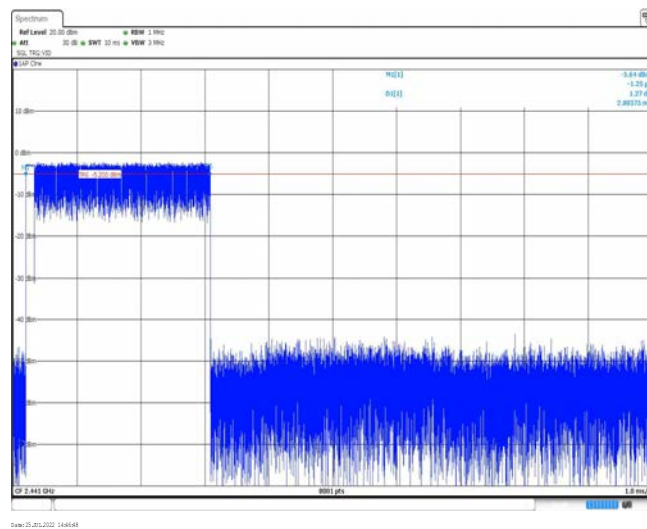


Modulation Type:	$\pi/4$ DQPSK
2DH1 Burst width	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.
2DH1 Burst number	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.
2DH3 Burst width	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.

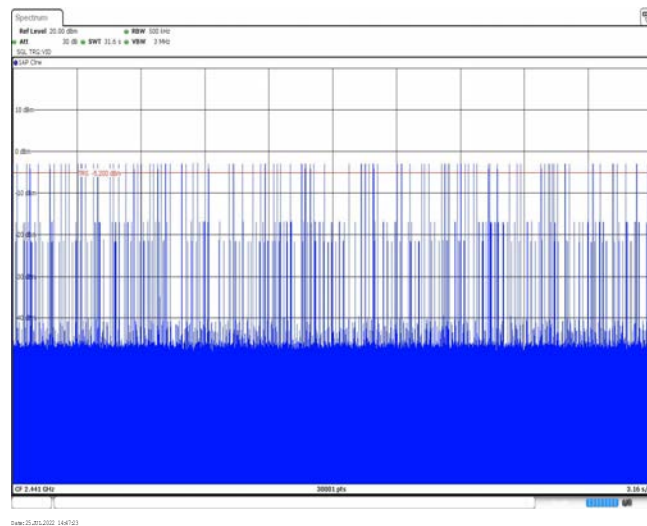
2DH3
Burst number



2DH5
Burst width

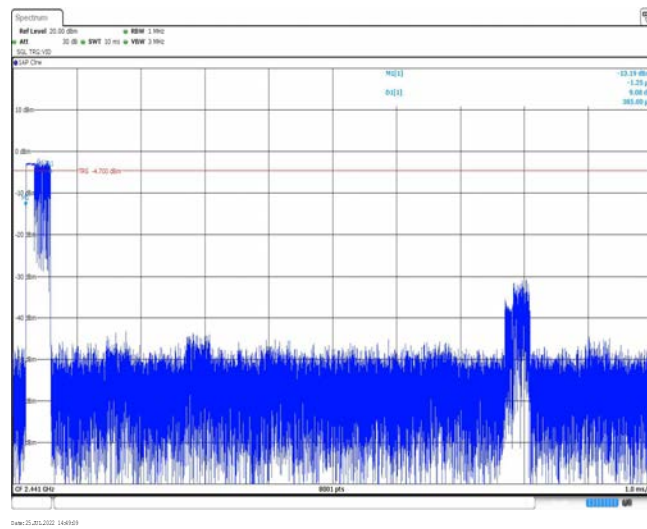
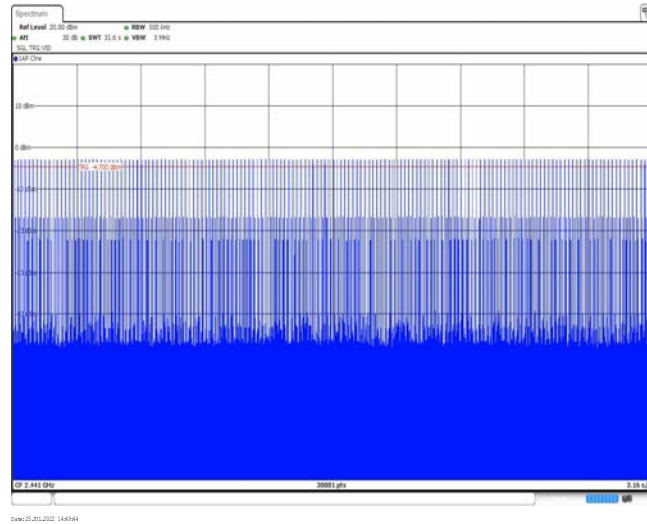
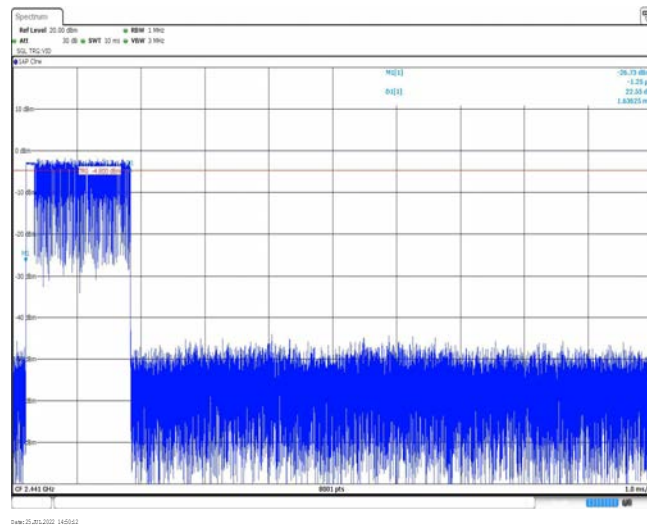


2DH5
Burst number

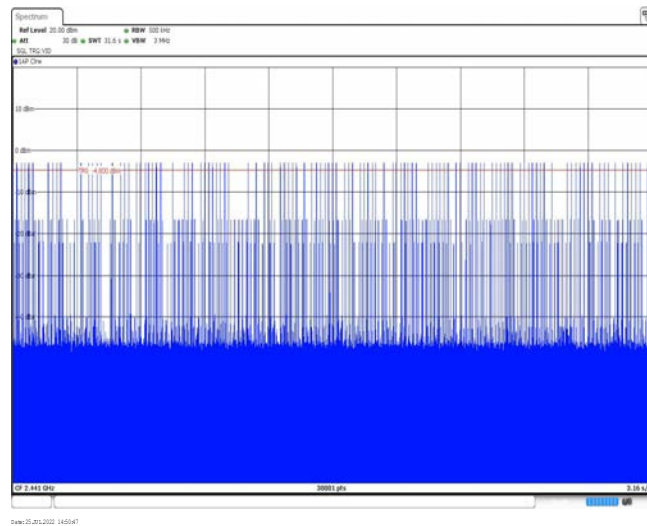


Modulation Type:

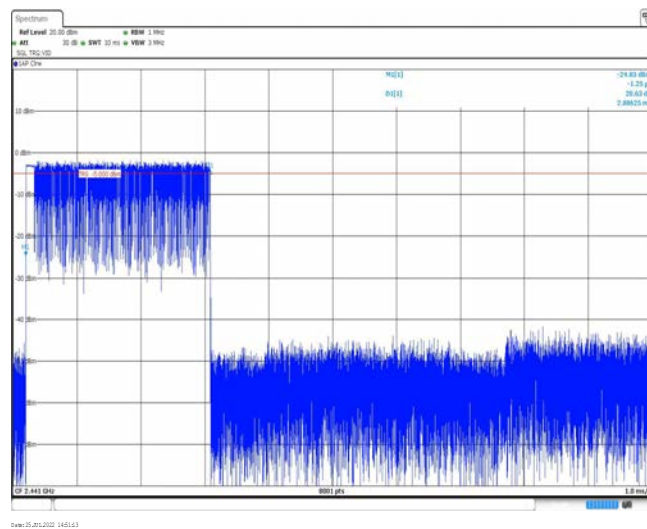
8DPSK

3DH1
Burst width3DH1
Burst number3DH3
Burst width

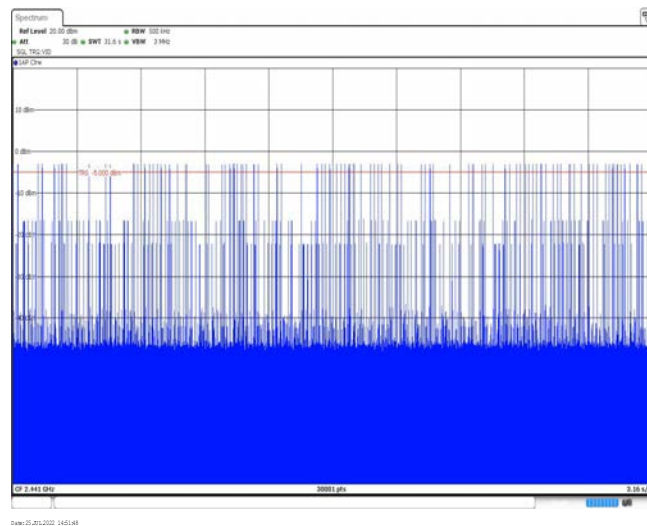
3DH3
Burst number



3DH5
Burst width



3DH5
Burst number

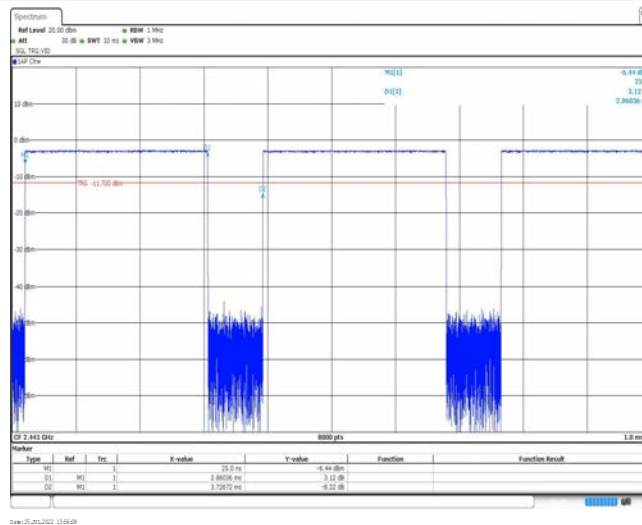


Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

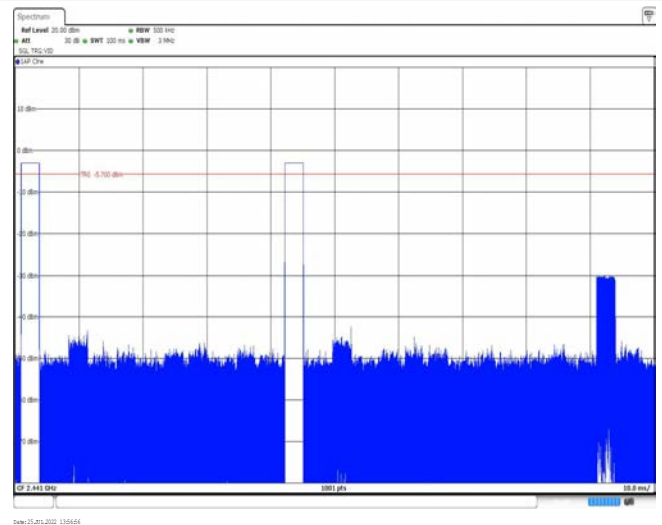
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	2	-24.85
$\pi/4$ DQPSK	2441	2.87	100	2	-24.82
8DPSK	2441	2.87	100	2	-24.82

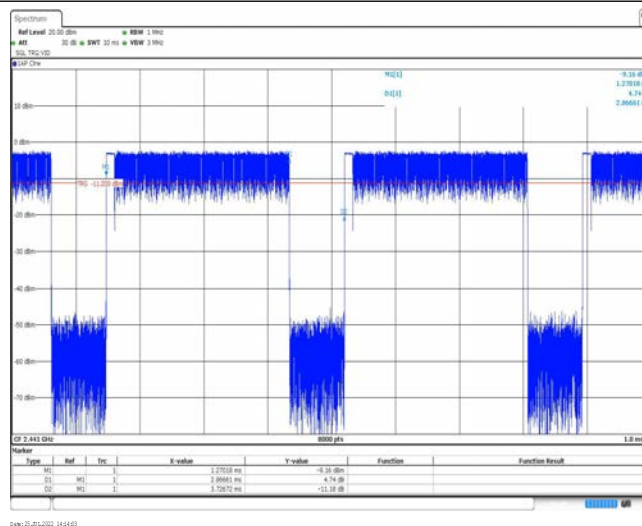
GFSK



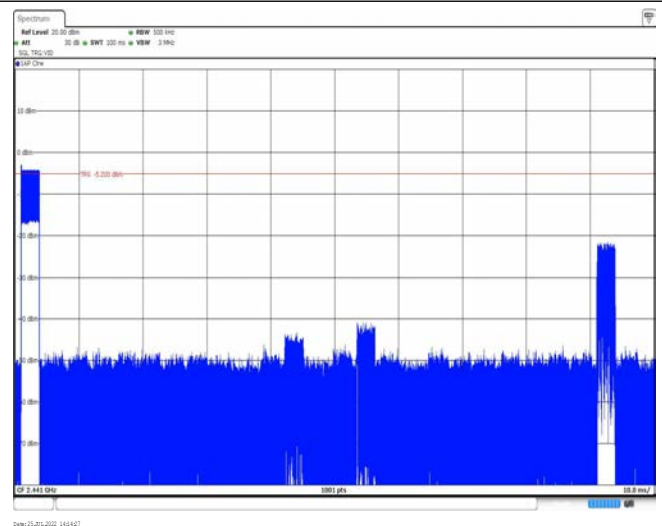
Ton time for single burst



Burst Quantity

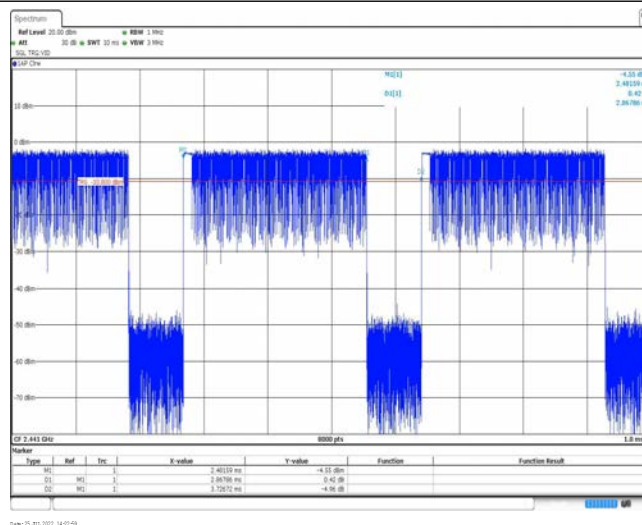
 $\pi/4$ DQPSK

Ton time for single burst

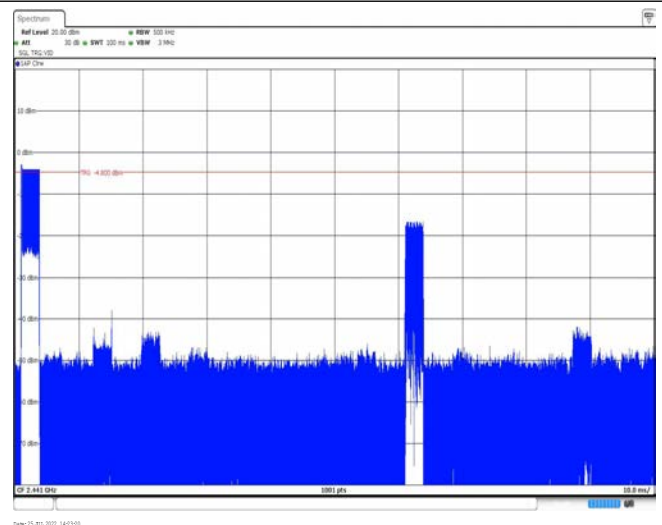


Burst Quantity

8DPSK

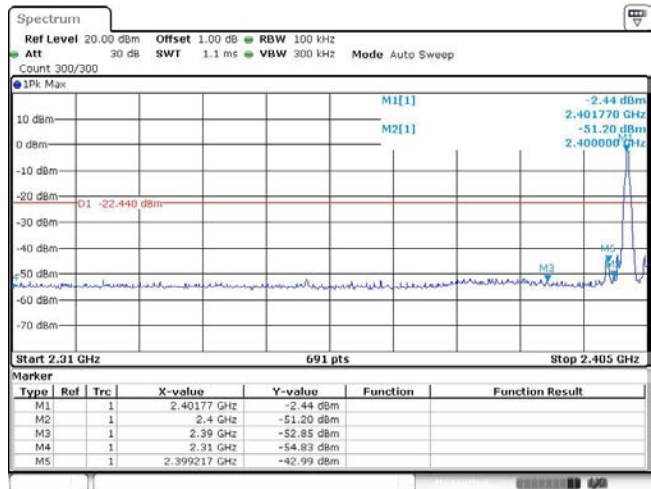
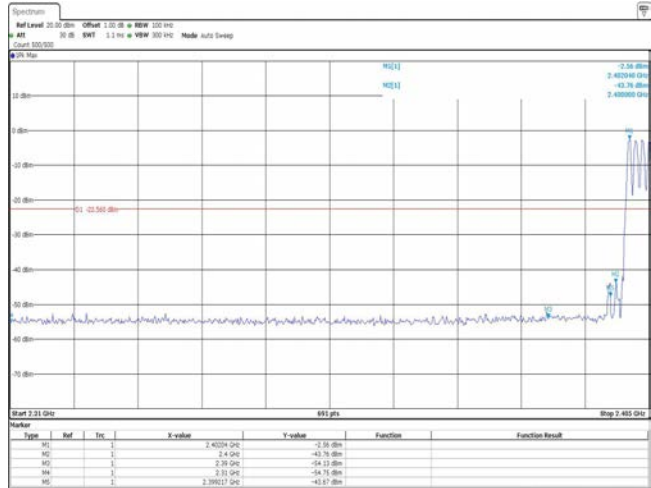
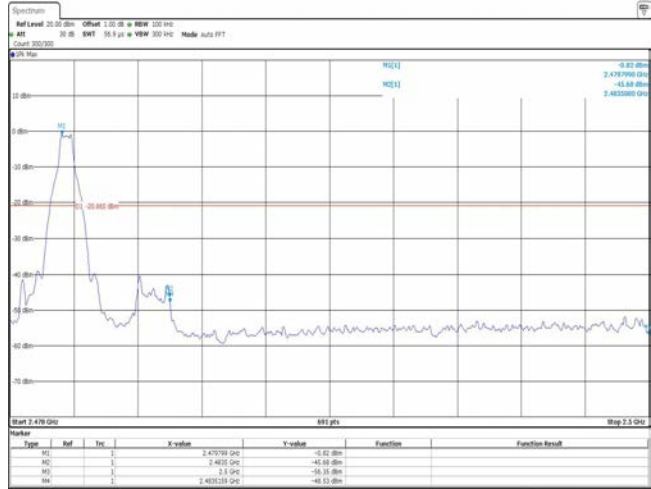


Ton time for single burst

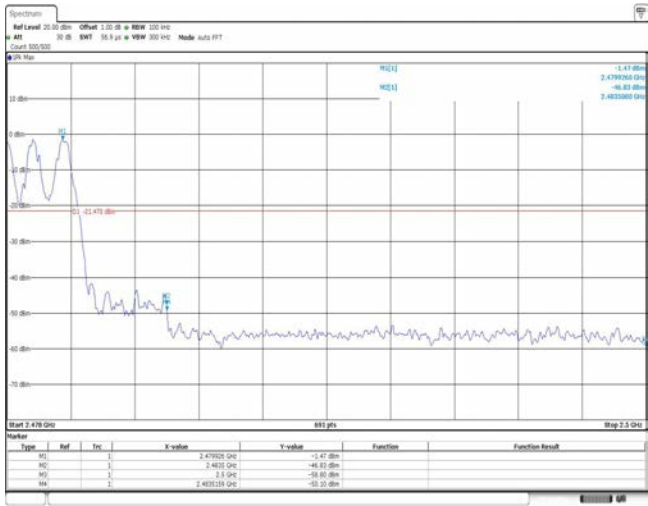


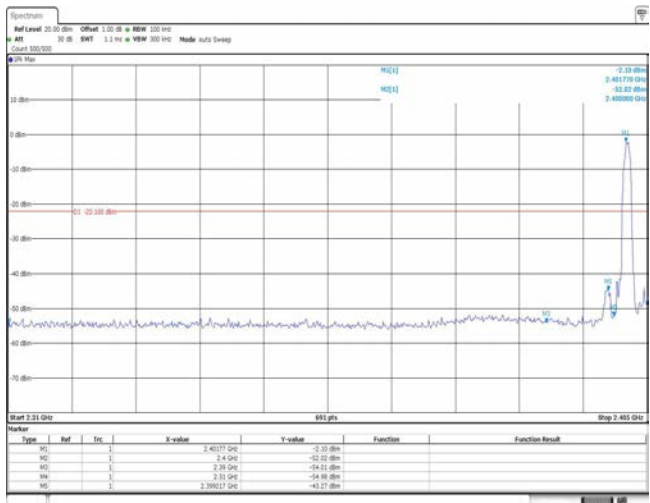
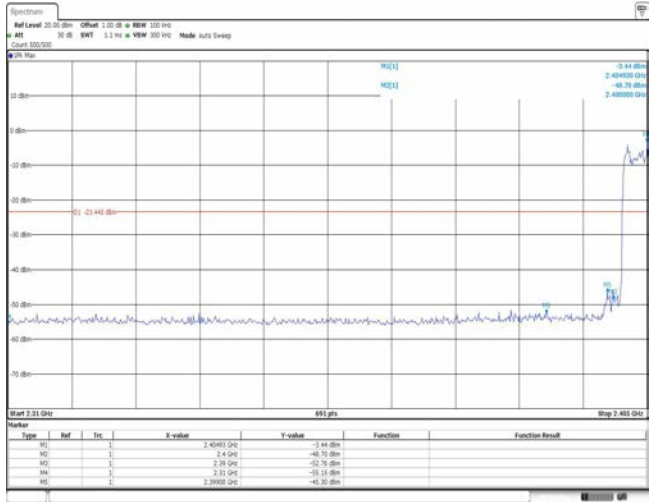
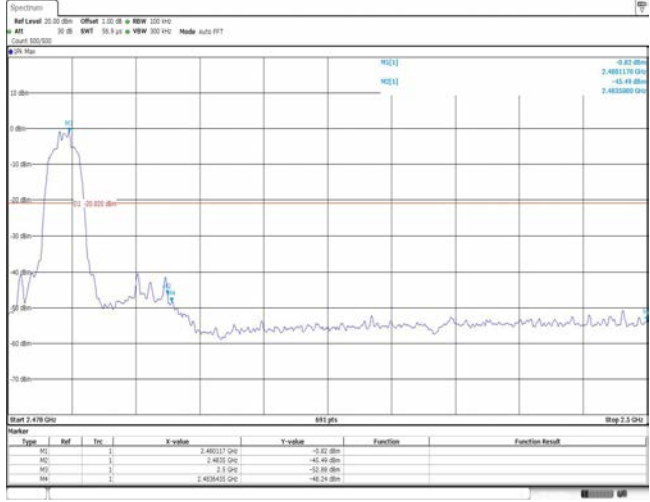
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

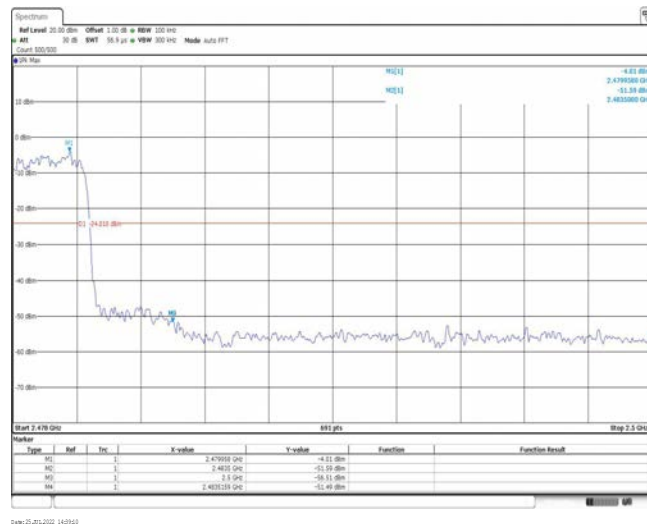
Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	 Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40177 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.20 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399217 GHz</td><td>-42.99 dBm</td><td></td><td></td></tr></table> Date: 25 JUL 2022 13:52:09	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-2.44 dBm			M2	1		2.4 GHz	-51.20 dBm			M3	1		2.39 GHz	-52.85 dBm			M4	1		2.31 GHz	-54.83 dBm			M5	1		2.399217 GHz	-42.99 dBm				
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M5	1		2.399217 GHz	-42.99 dBm																																									
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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CH78 No hopping mode	 Marker <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>2.40177 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.20 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399217 GHz</td><td>-42.99 dBm</td><td></td><td></td></tr></table> Date: 25 JUL 2022 14:03:05	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-2.44 dBm			M2	1		2.4 GHz	-51.20 dBm			M3	1		2.39 GHz	-52.85 dBm			M4	1		2.31 GHz	-54.83 dBm			M5	1		2.399217 GHz	-42.99 dBm				
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M5	1		2.399217 GHz	-42.99 dBm																																									

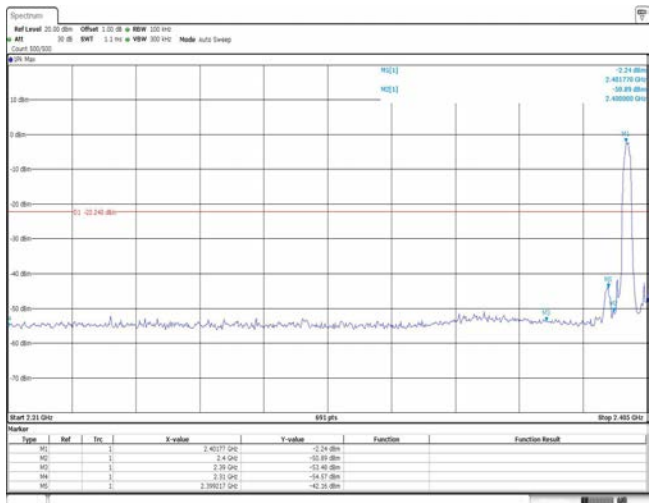
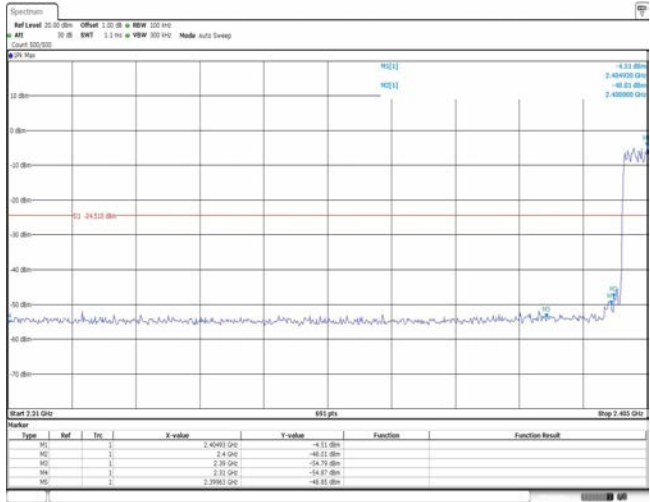
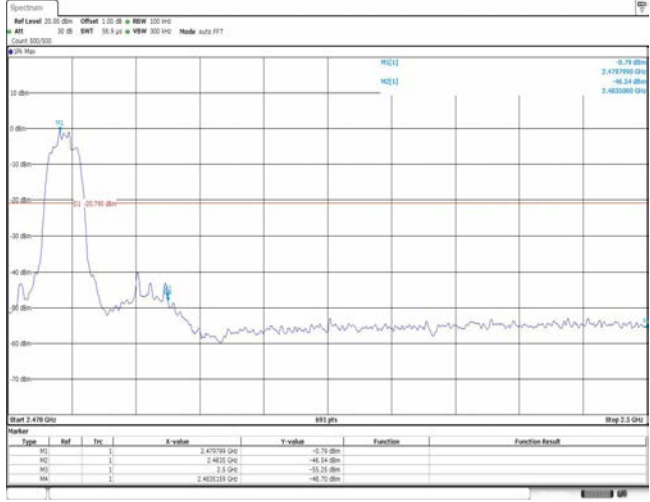
CH78
Hopping mode



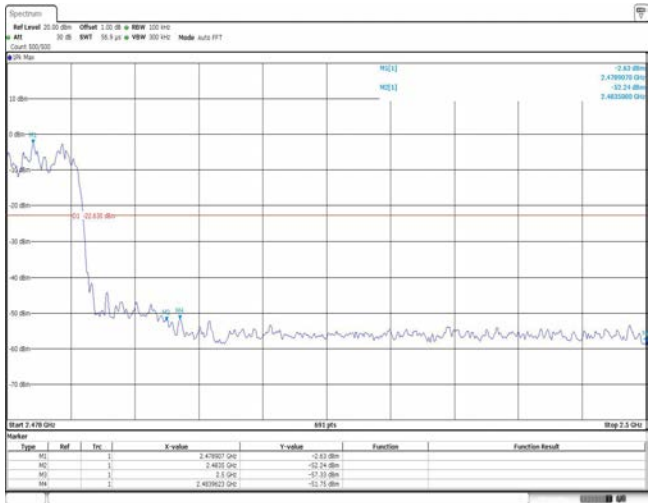
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																																
CH00 No hopping mode	<table><tr><th>Marker</th><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>MC</td><td>1</td><td>1</td><td>2.40277 GHz</td><td>-2.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-52.23 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-54.81 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>MC</td><td>1</td><td>1</td><td>2.33 GHz</td><td>-54.84 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>MC</td><td>1</td><td>1</td><td>2.39017 GHz</td><td>-41.27 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:05:04			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	MC	1	1	2.40277 GHz	-2.33 dBm			M2	MC	1	1	2.4 GHz	-52.23 dBm			M3	MC	1	1	2.39 GHz	-54.81 dBm			M4	MC	1	1	2.33 GHz	-54.84 dBm			M5	MC	1	1	2.39017 GHz	-41.27 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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M2	MC	1	1	2.4 GHz	-48.70 dBm																																														
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Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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M3	MC	1	1	2.3 GHz	-52.89 dBm																																														
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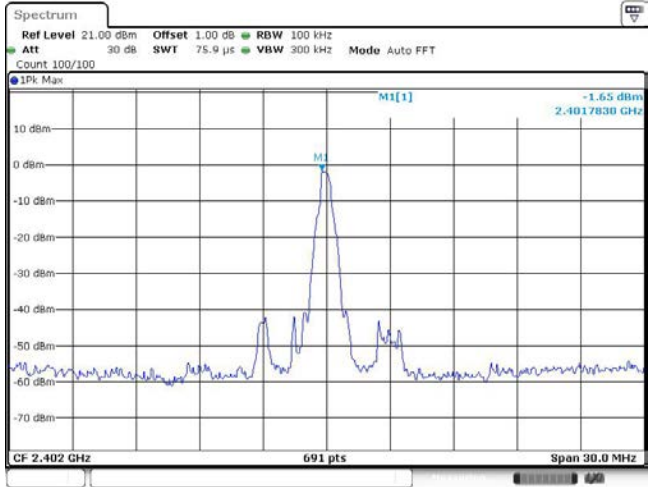
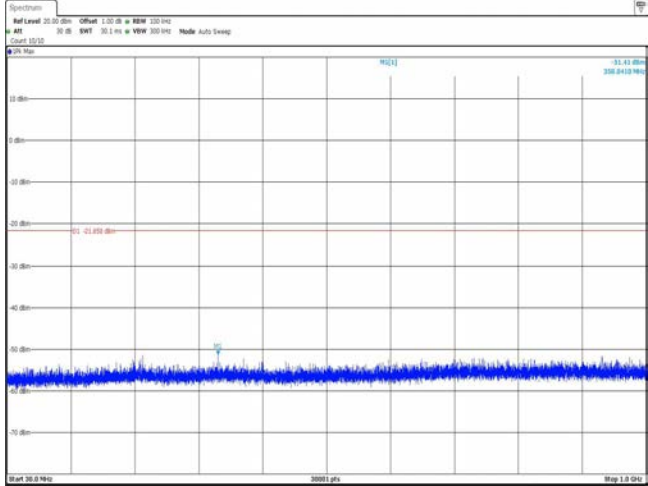
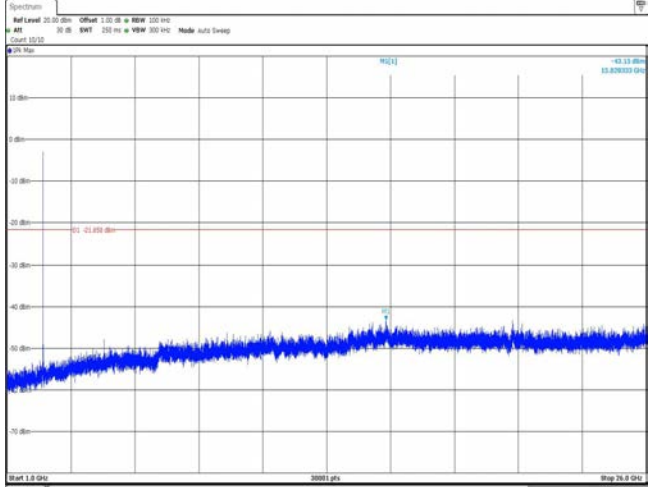
CH78
Hopping mode



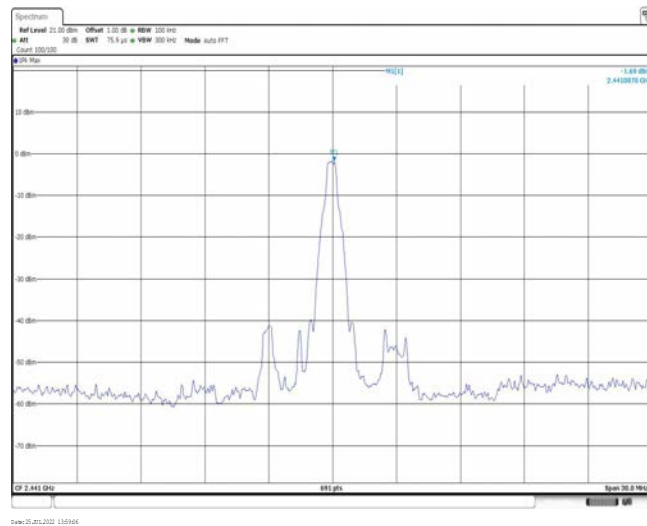
Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	<table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.40277 GHz</td><td>-12.24 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-50.25 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-51.46 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-54.57 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39017 GHz</td><td>-42.15 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:51:02			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40277 GHz	-12.24 dBm			MC	1	1	2.4 GHz	-50.25 dBm			MC	1	1	2.39 GHz	-51.46 dBm			MC	1	1	2.31 GHz	-54.57 dBm			MC	1	1	2.39017 GHz	-42.15 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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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>MC</td><td>1</td><td>1</td><td>2.40403 GHz</td><td>-4.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-48.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-54.76 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-54.87 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39033 GHz</td><td>-48.51 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:40:29			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40403 GHz	-4.11 dBm			MC	1	1	2.4 GHz	-48.11 dBm			MC	1	1	2.39 GHz	-54.76 dBm			MC	1	1	2.31 GHz	-54.87 dBm			MC	1	1	2.39033 GHz	-48.51 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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MC	1	1	2.39 GHz	-54.76 dBm																																									
MC	1	1	2.31 GHz	-54.87 dBm																																									
MC	1	1	2.39033 GHz	-48.51 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>MC</td><td>1</td><td>1</td><td>2.47579 GHz</td><td>-5.75 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.465 GHz</td><td>-48.14 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.3 GHz</td><td>-55.21 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.48071 GHz</td><td>-48.70 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:07:55			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.47579 GHz	-5.75 dBm			MC	1	1	2.465 GHz	-48.14 dBm			MC	1	1	2.3 GHz	-55.21 dBm			MC	1	1	2.48071 GHz	-48.70 dBm									
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CH78
Hoppig mode

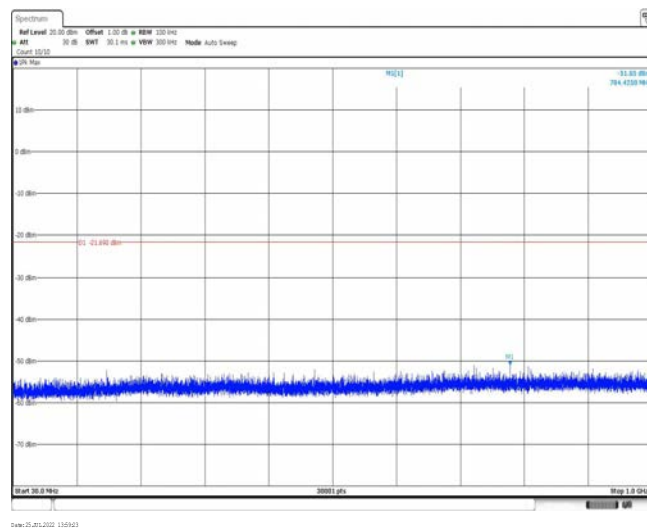


Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 Date: 25.JUL.2022 13:52:17		
CH00 30MHz~1000MHz	 Date: 25.JUL.2022 13:52:03		
CH00 1GHz~26GHz	 Date: 25.JUL.2022 13:52:03		

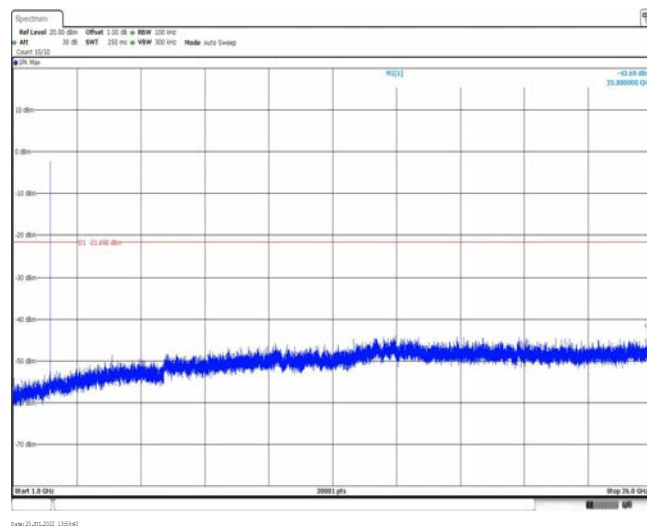
CH39
Reference level

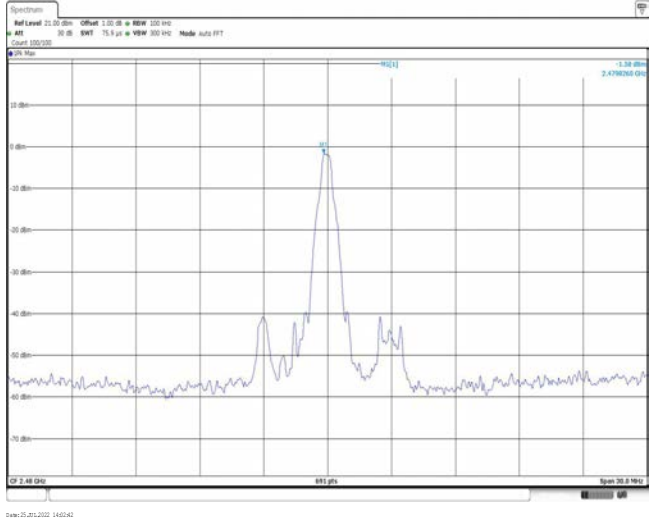
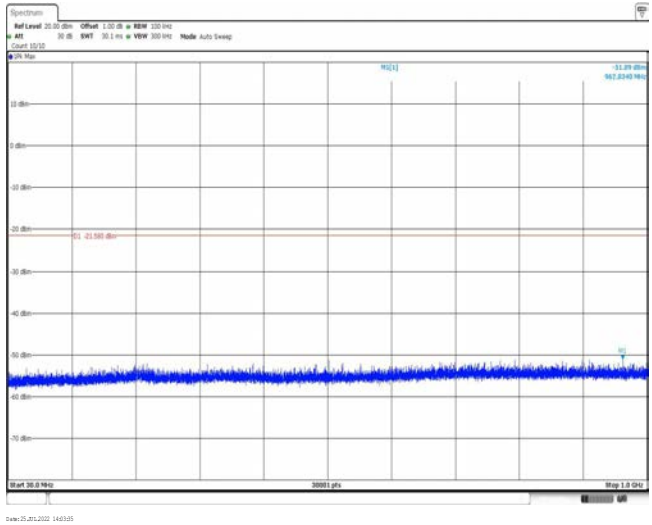
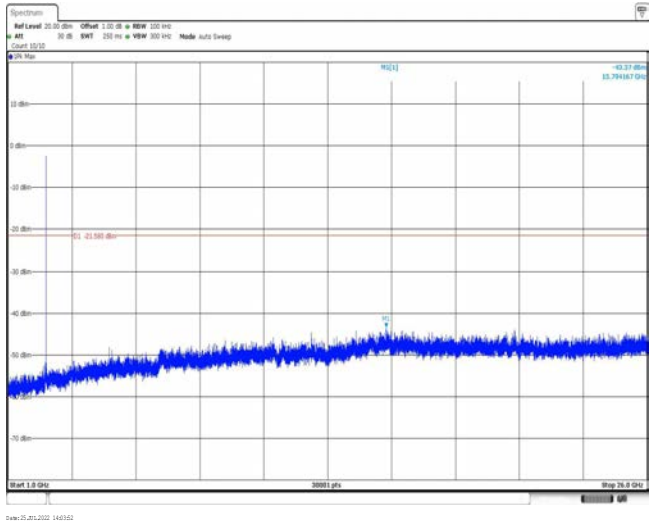


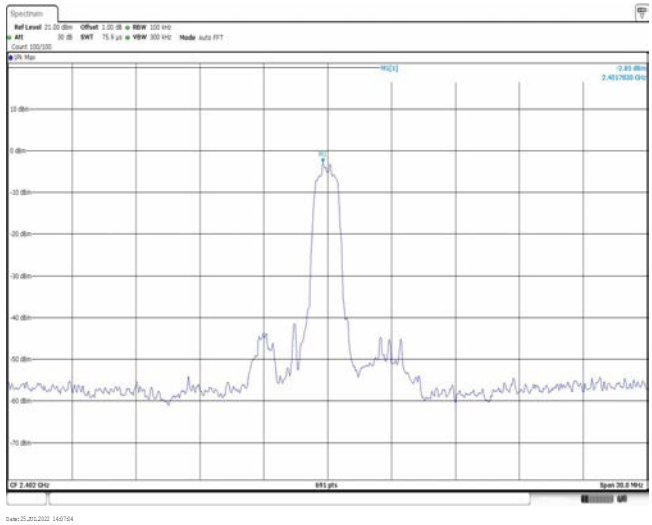
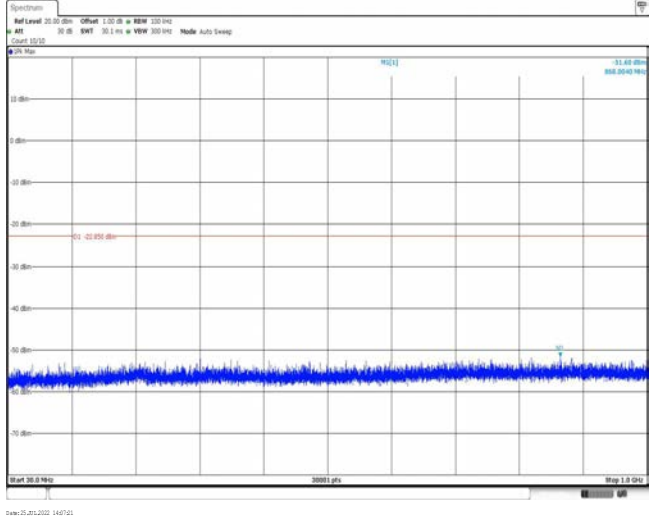
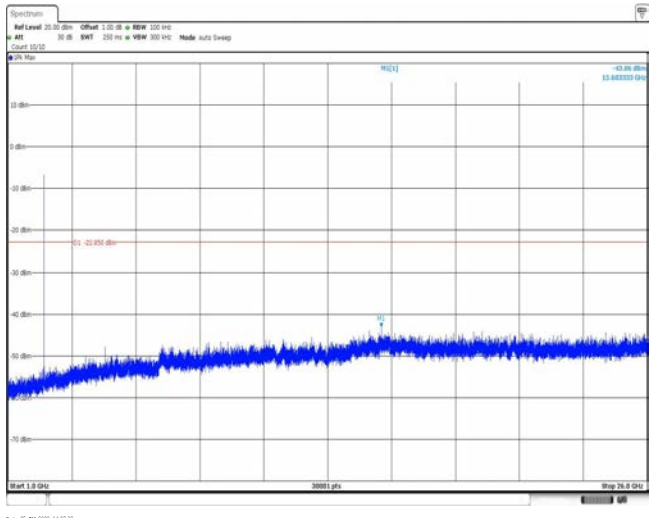
CH39
30MHz~1000MHz



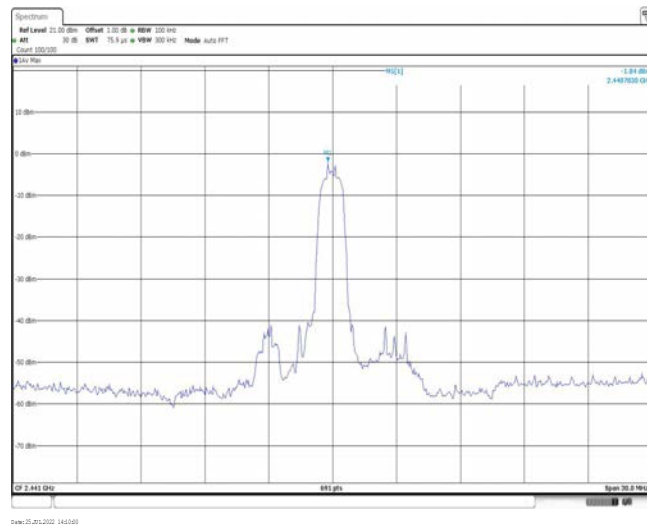
CH39
1GHz~26GHz



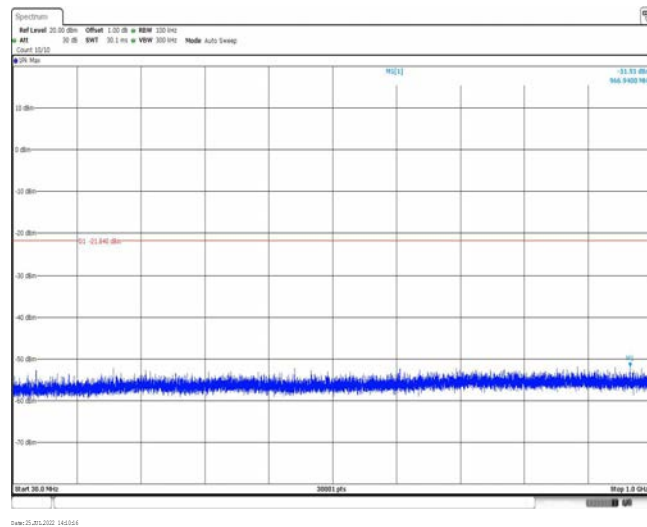
CH78 Reference level	 The spectrum plot shows a reference signal for CH78. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in GHz, ranging from 0.4 to 2.6. A prominent peak is visible at approximately 2.4796584 GHz, reaching a power level of about 10 dBm. The plot includes a grid and various measurement parameters at the top.
CH78 30MHz~1000MHz	 The spectrum plot shows the signal for CH78 in the 30MHz~1000MHz range. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in MHz, ranging from 30 to 1000. The plot shows a noisy baseline with a red horizontal line at -21.583 dBm. The plot includes a grid and various measurement parameters at the top.
CH78 1GHz~26GHz	 The spectrum plot shows the signal for CH78 in the 1GHz~26GHz range. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in GHz, ranging from 1.0 to 26.0. The plot shows a noisy baseline with a red horizontal line at -21.583 dBm. The plot includes a grid and various measurement parameters at the top.

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

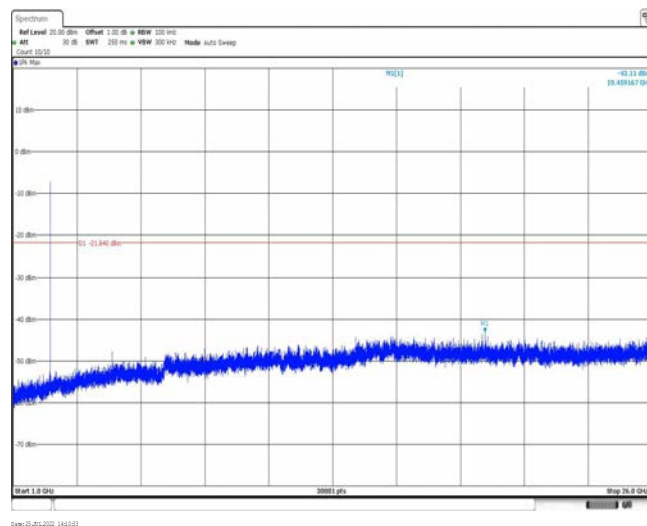
CH39
Reference level



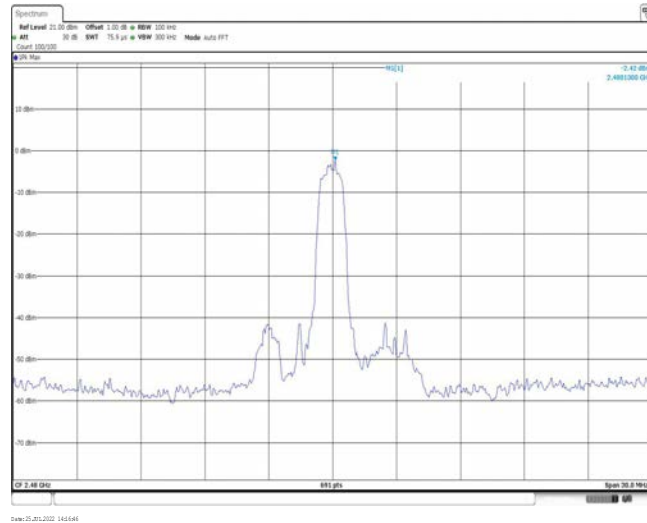
CH39
30MHz~1000MHz



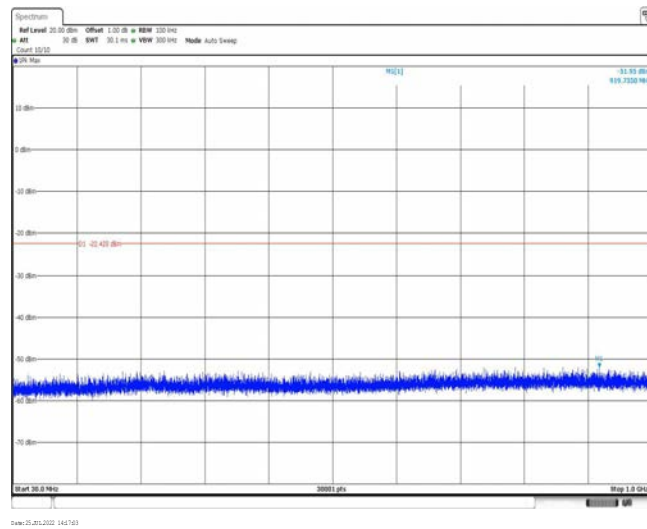
CH39
1GHz~26GHz



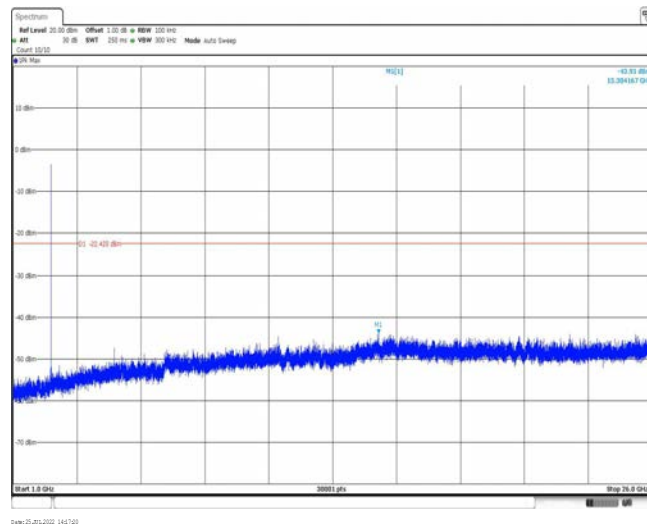
CH78
Reference level

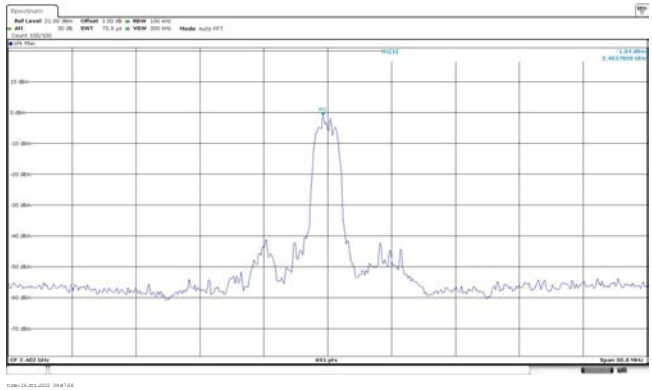
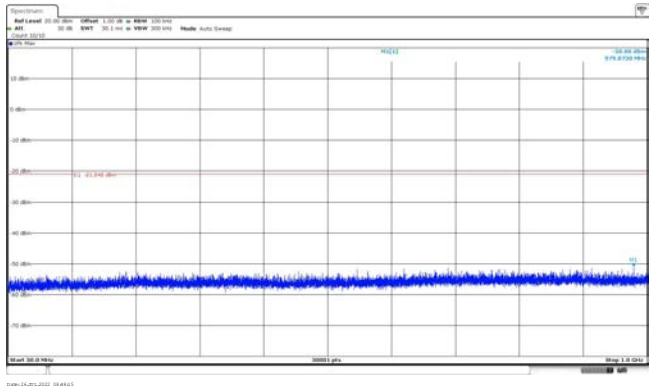
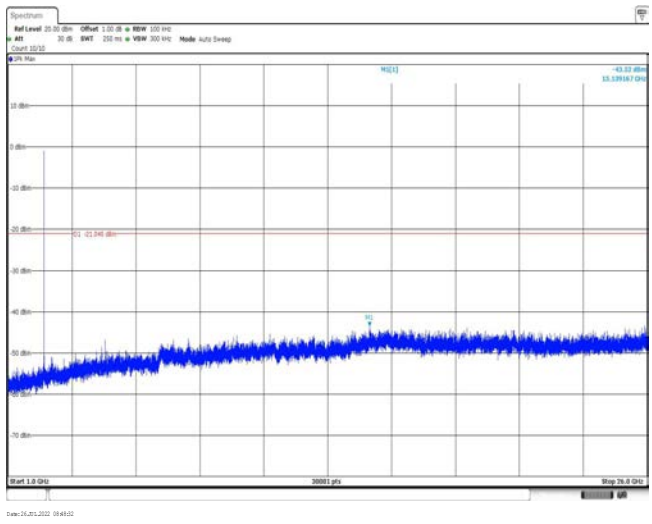


CH78
30MHz~1000MHz

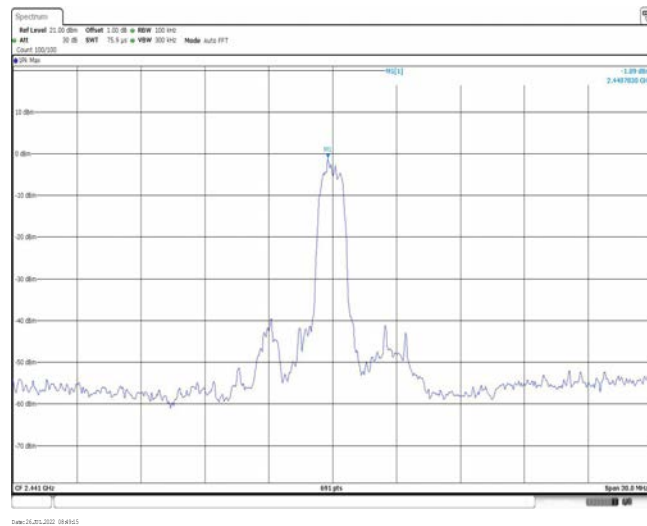


CH78
1GHz~26GHz

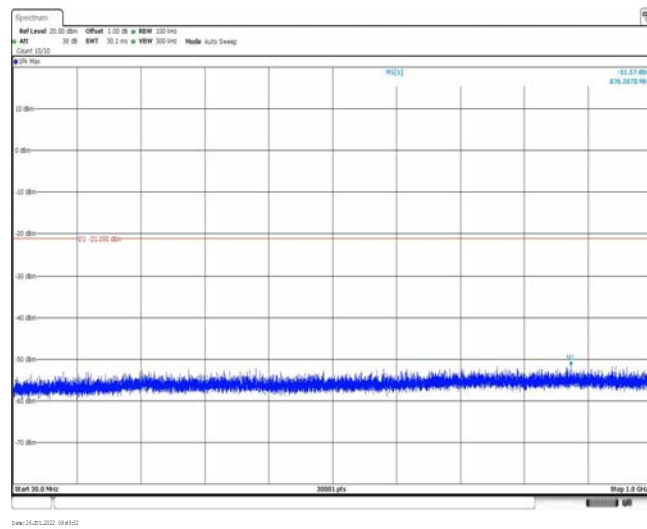


Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

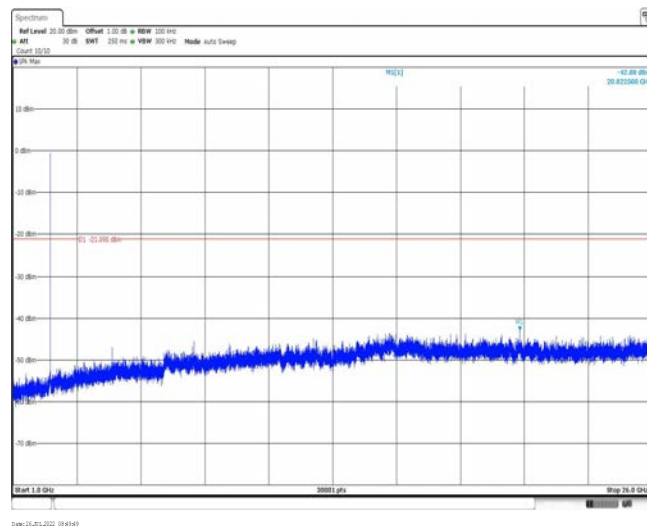
CH39
Reference level



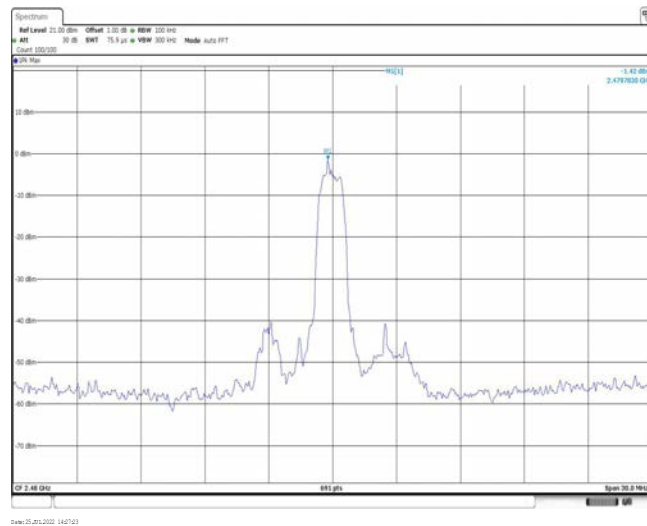
CH39
30MHz~1000MHz



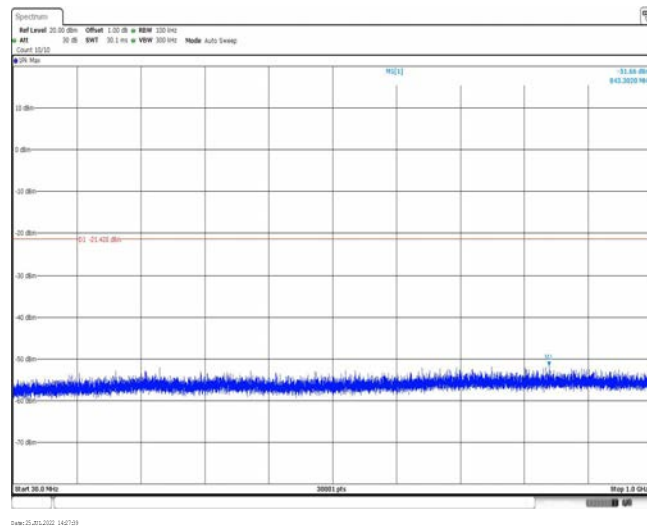
CH39
1GHz~26GHz



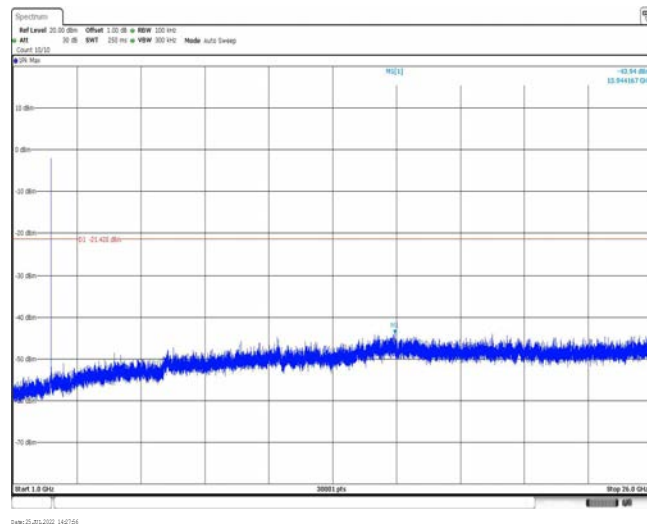
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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