

APPENDIX REPORT

Project No.	SHT2203132901EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22031329001	Model No.	LLA570
Start test date	2022-04-18	Finish date	2022-04-18
Temperature	24.1℃	Humidity	40%
Test Engineer	Xiaoqin 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

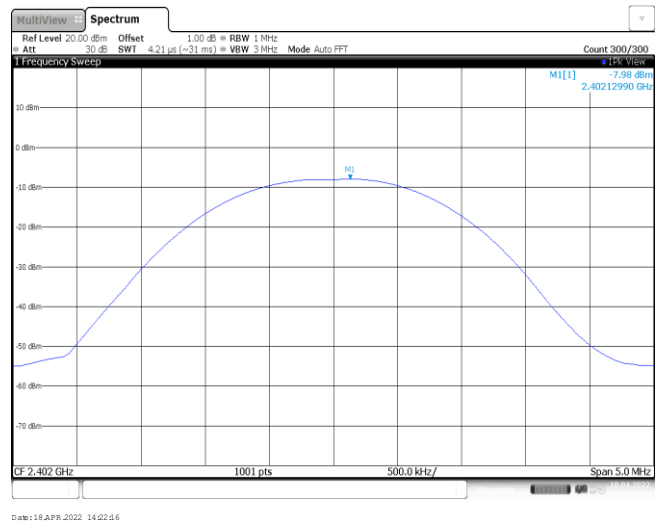
Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-7.98	-8.00	≤ 30.00	Pass
	39	-4.85	-4.91		
	78	-2.73	-2.74		
$\pi/4$ DQPSK	00	-5.25	-5.85	≤ 21.00	Pass
	39	-2.04	-2.67		
	78	0.20	-0.46		
8DPSK	00	-4.59	-5.36	≤ 21.00	Pass
	39	-1.49	-2.29		
	78	0.82	0.02		

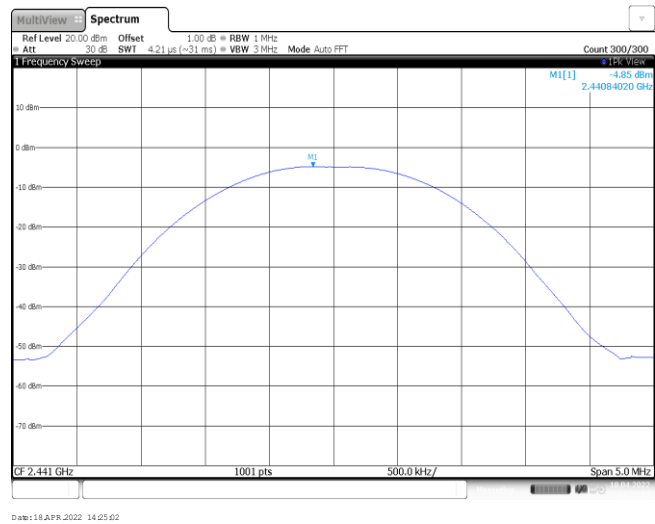
Modulation Type:

GFSK

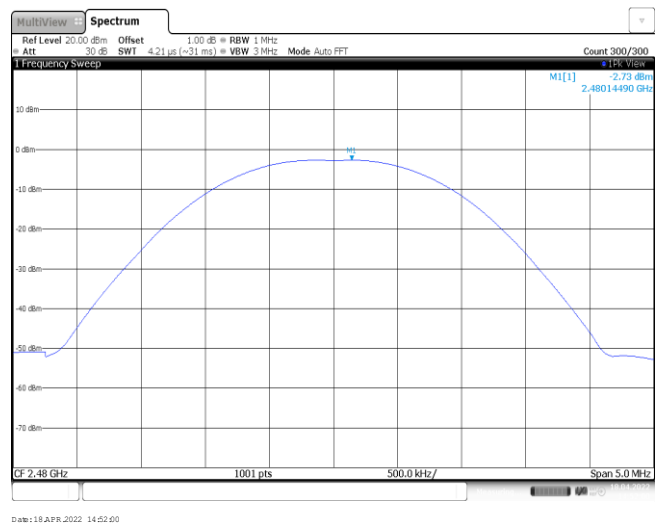
CH00



CH39

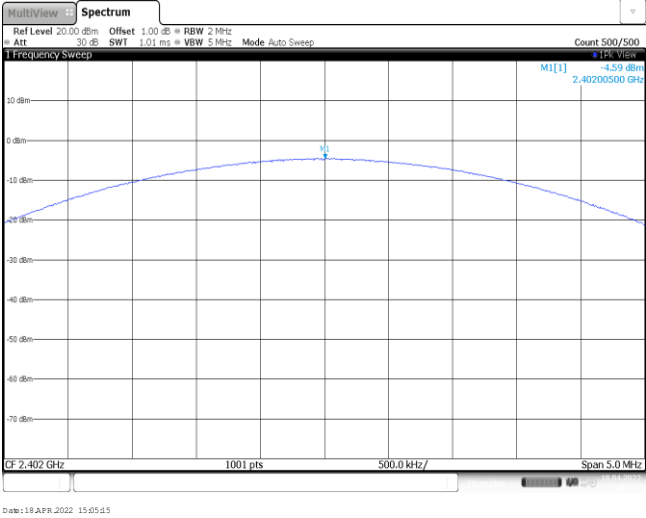
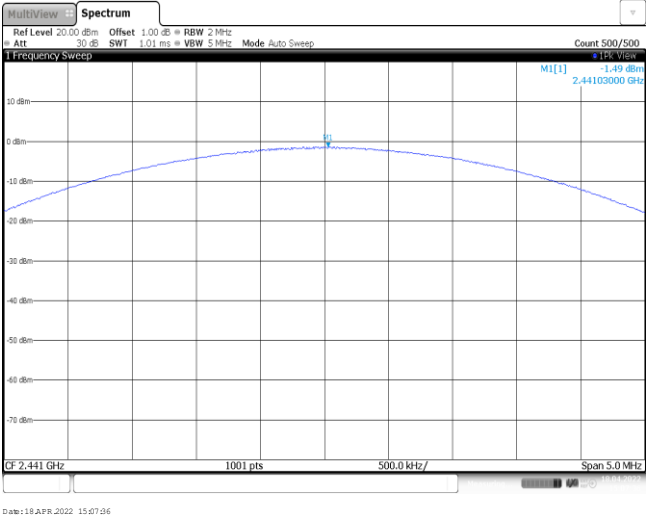
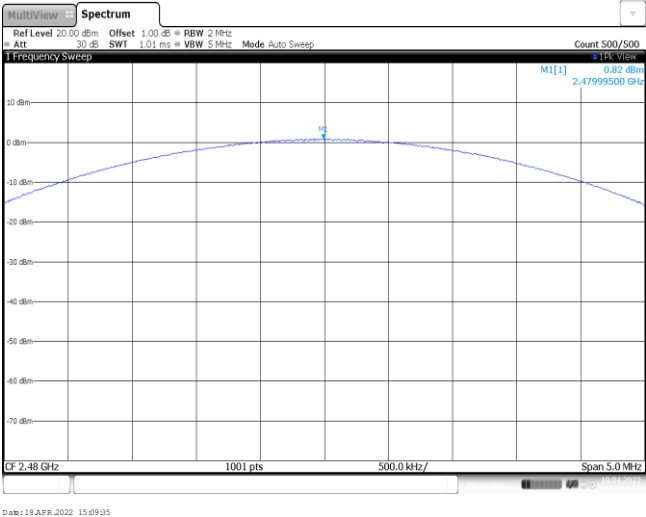


CH78



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Modulation Type: 8DPSK

CH00	 Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 M1[1] -4.59 dBm 2.40200500 GHz CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 18 APR 2022 15:05:45
CH39	 Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 M1[1] -1.49 dBm 2.44103000 GHz CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 18 APR 2022 15:07:06
CH78	 Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 M1[1] 0.82 dBm 2.47999500 GHz CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 18 APR 2022 15:09:05

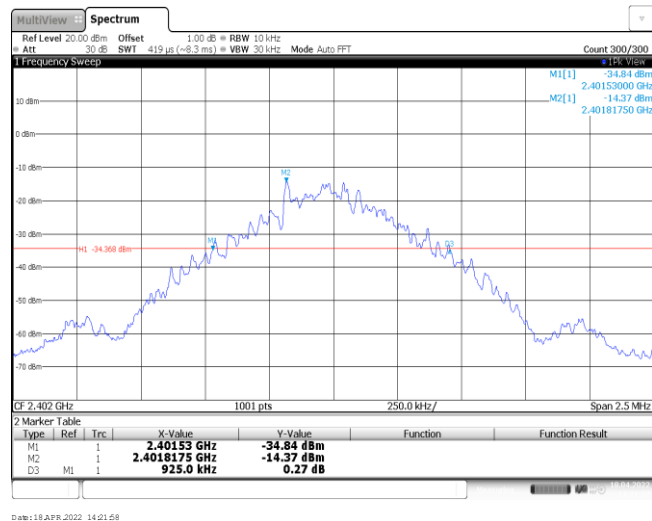
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	927.50		
	78	927.50		
$\pi/4$ DQPSK	00	1332.50	-	Pass
	39	1332.50		
	78	1335.00		
8DPSK	00	1315.00	-	Pass
	39	1312.50		
	78	1312.50		

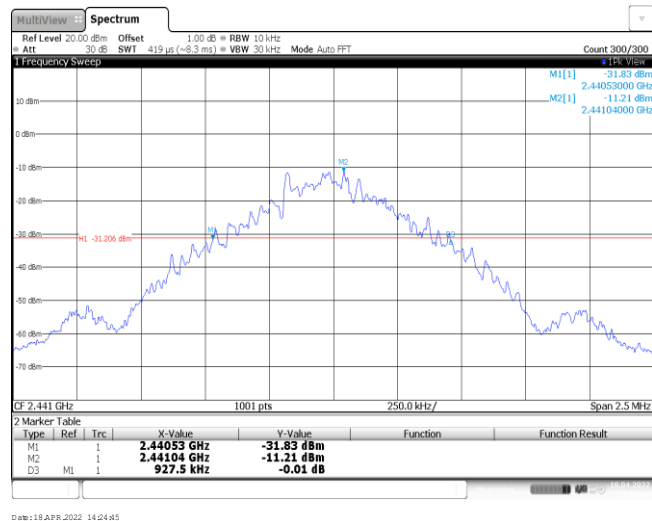
Modulation Type:

GFSK

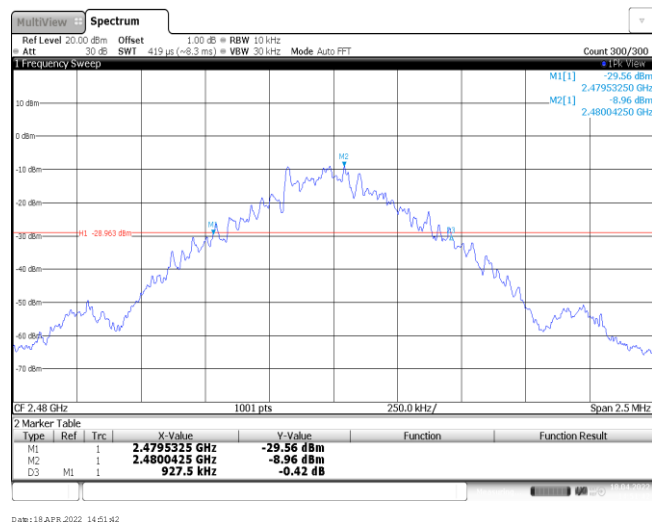
CH00

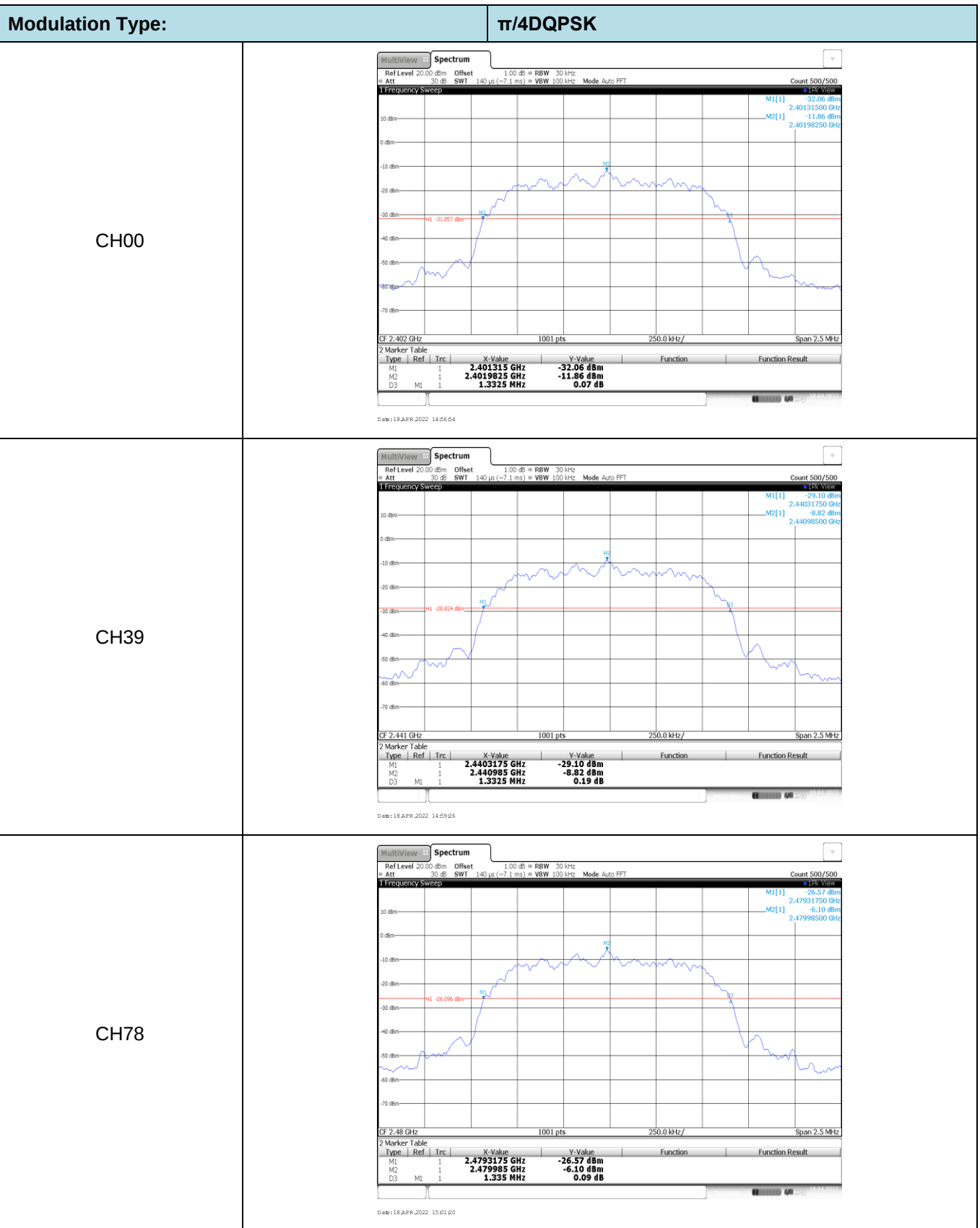


CH39



CH78

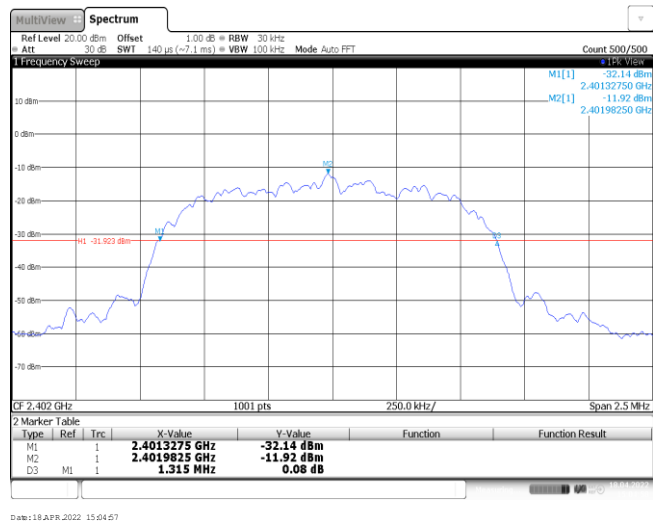




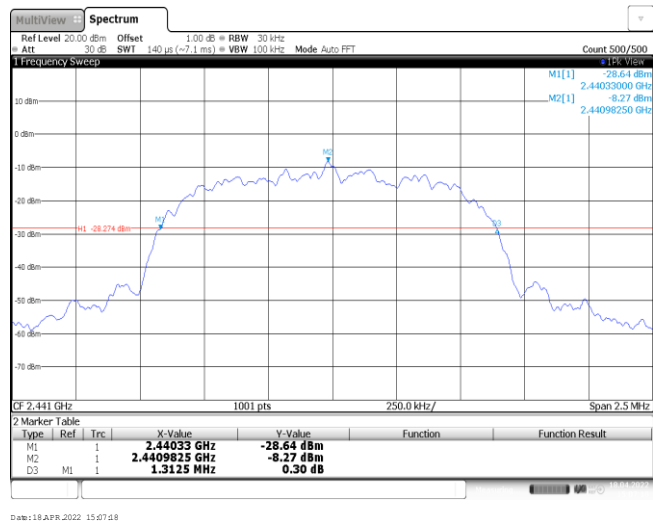
Modulation Type:

8DPSK

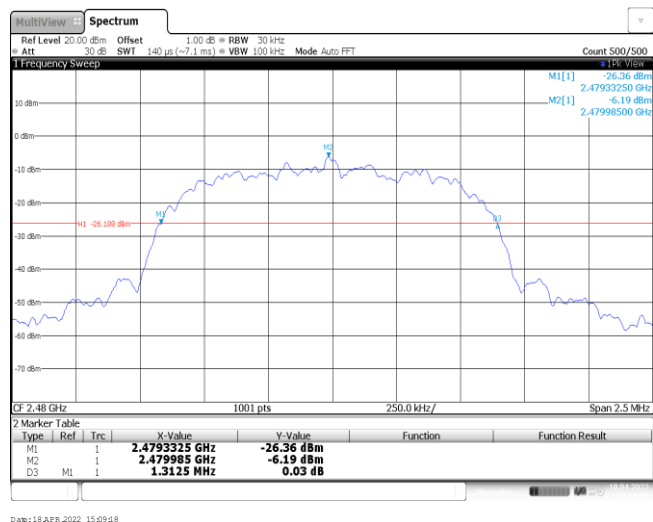
CH00



CH39



CH78



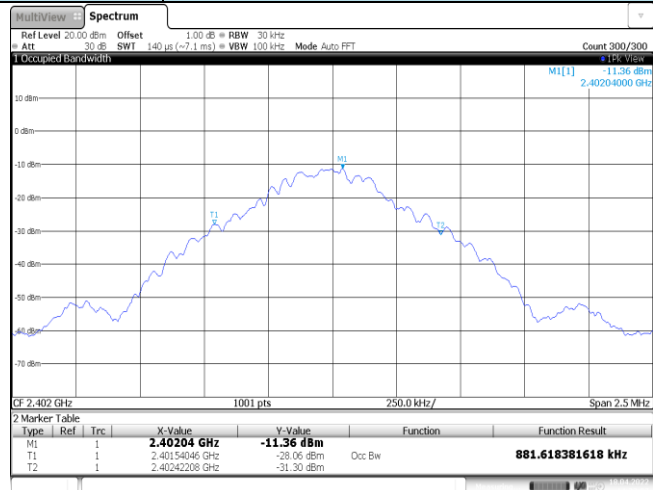
Appendix C: 99% Occupied Bandwidth

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

Modulation Type:

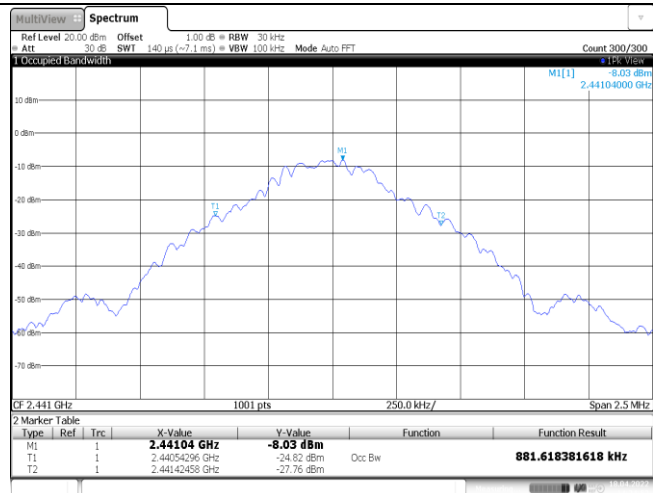
GFSK

CH00



Date: 18 APR 2022 14:22:06

CH39



Date: 18 APR 2022 14:24:53

CH78

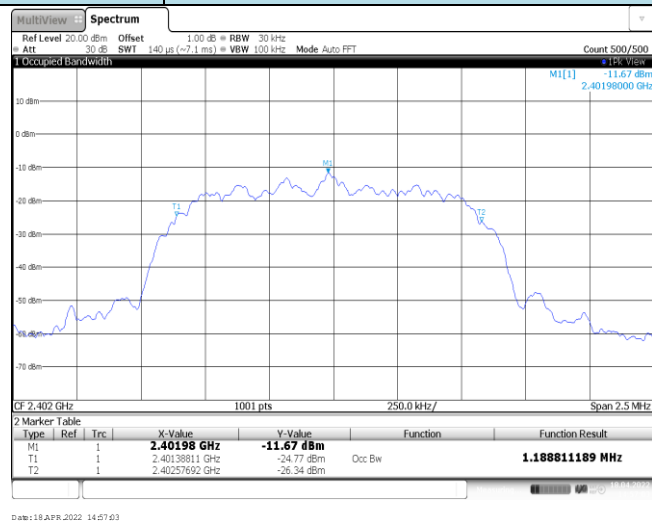


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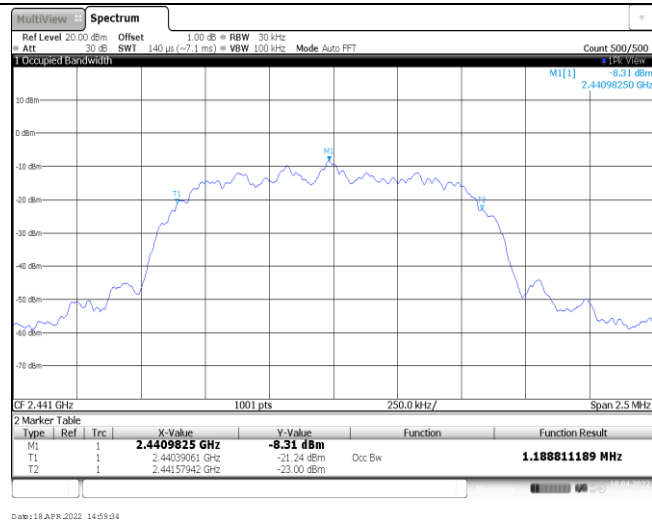
Modulation Type:

 $\pi/4$ DQPSK

CH00



CH39



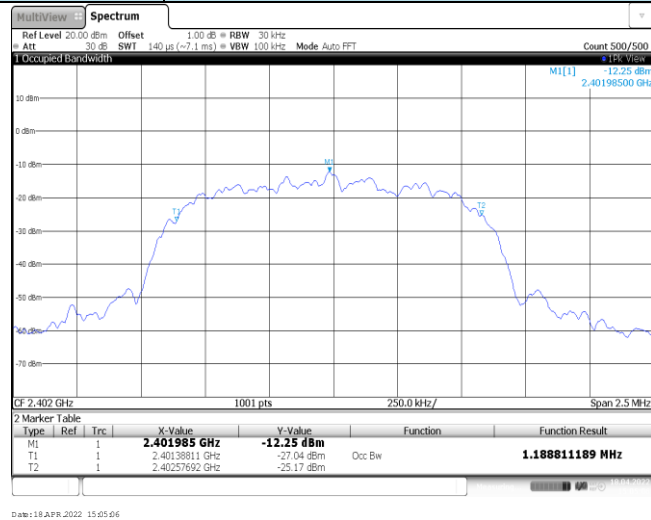
CH78



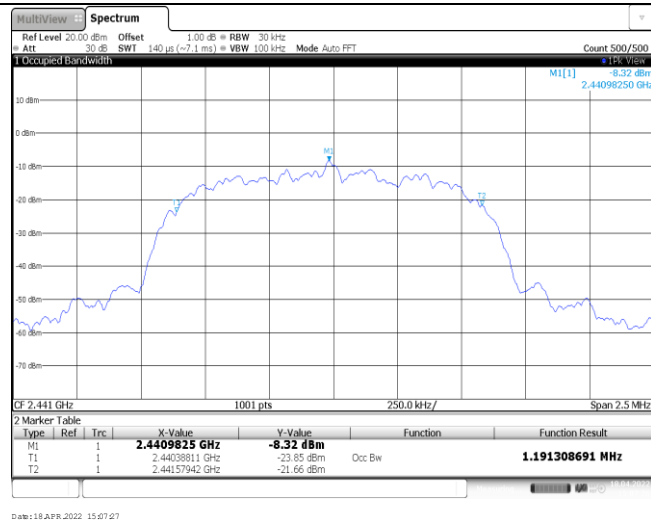
Modulation Type:

8DPSK

CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥927.50	Pass
π/4DQPSK	39	1.00	≥890.00	Pass
8DPSK	39	1.00	≥876.67	Pass

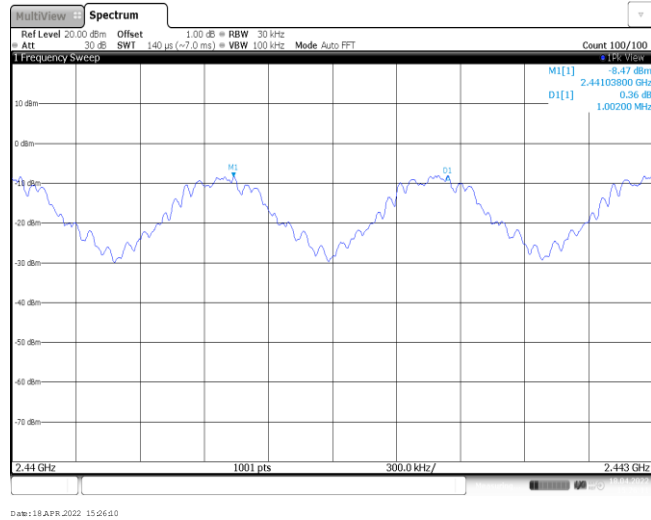
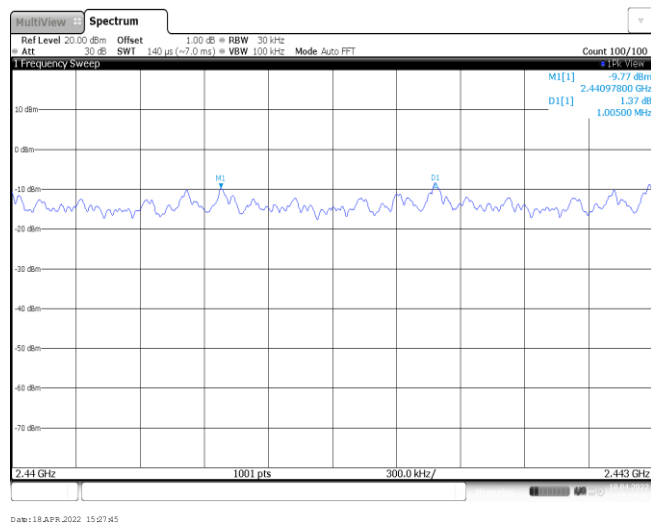
Note:

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

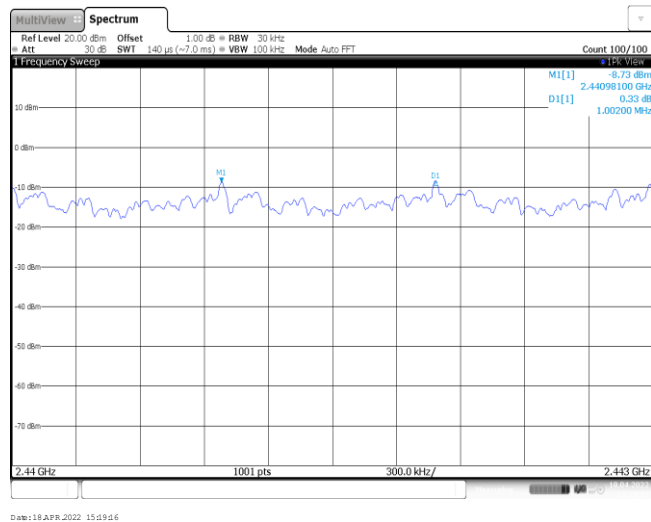
π/4DQPSK limit = 2/3 * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

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

GFSK

 π /4DQPSK

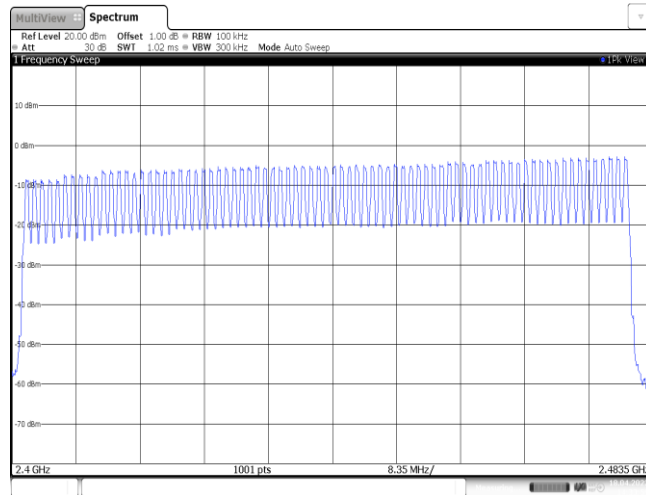
8DPSK



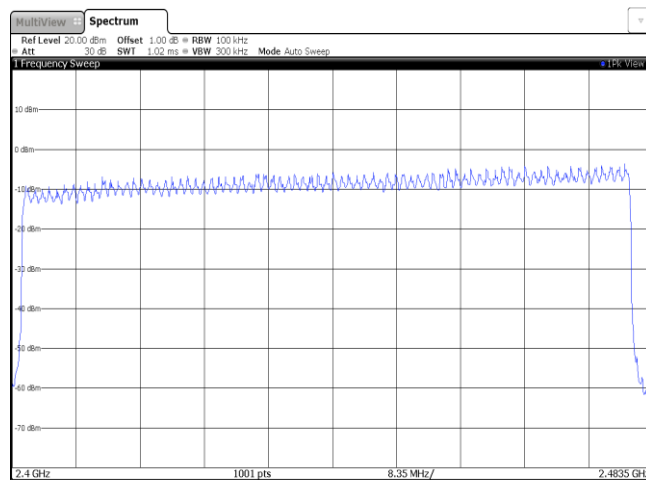
Appendix E: Hopping Channel Number

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

GFSK

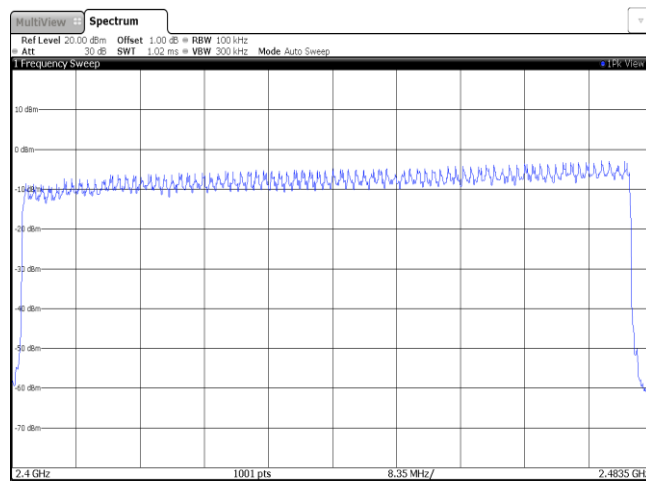


Date: 18 APR 2022 14:33:59

 $\pi/4$ DQPSK

Date: 18 APR 2022 15:00:53

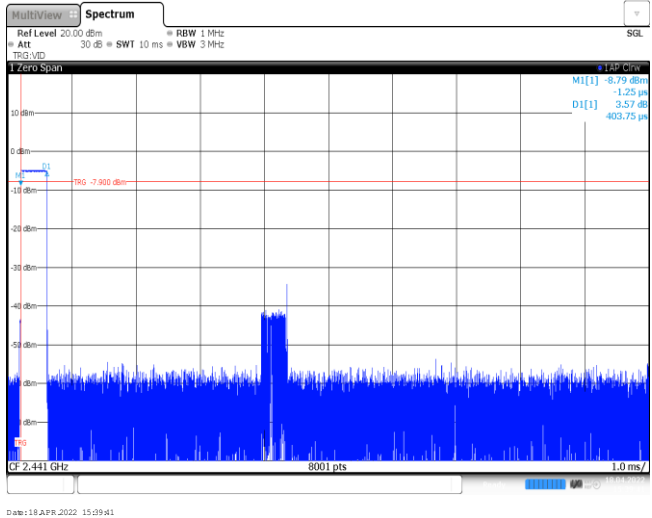
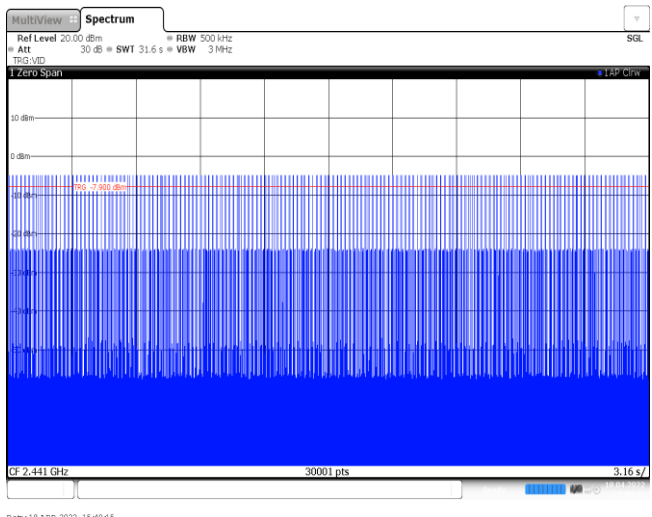
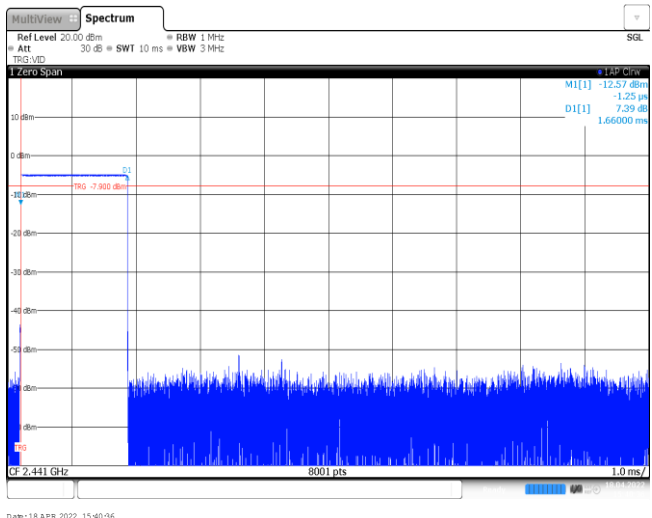
8DPSK

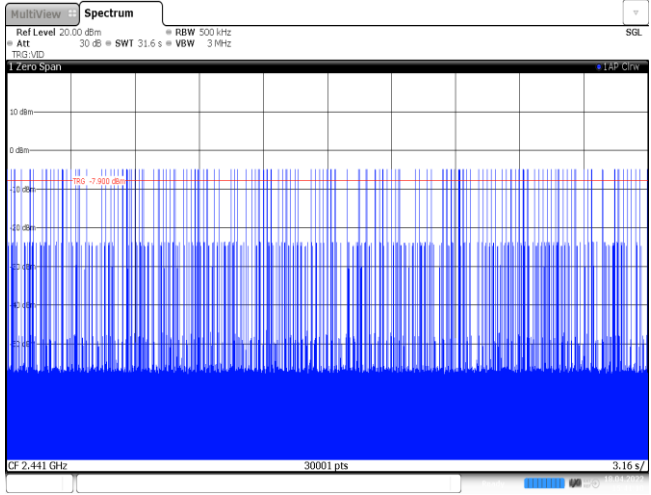
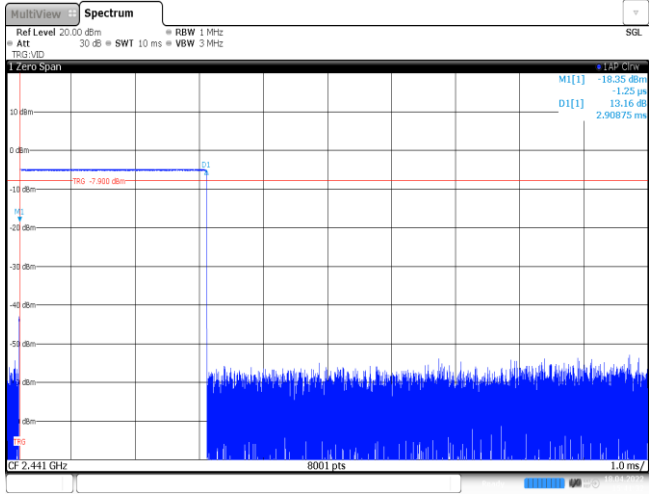
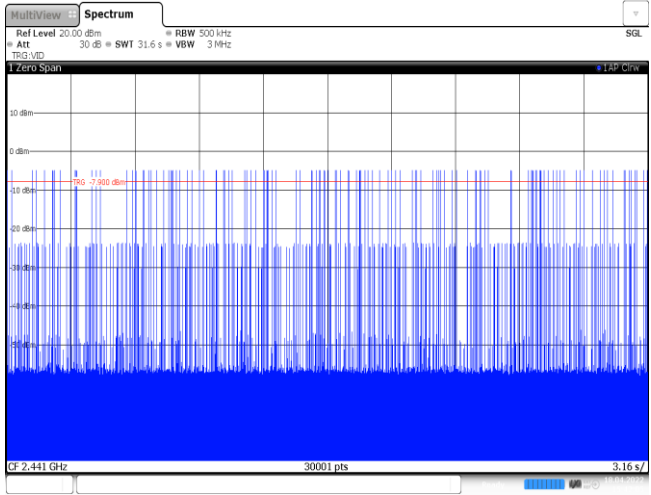


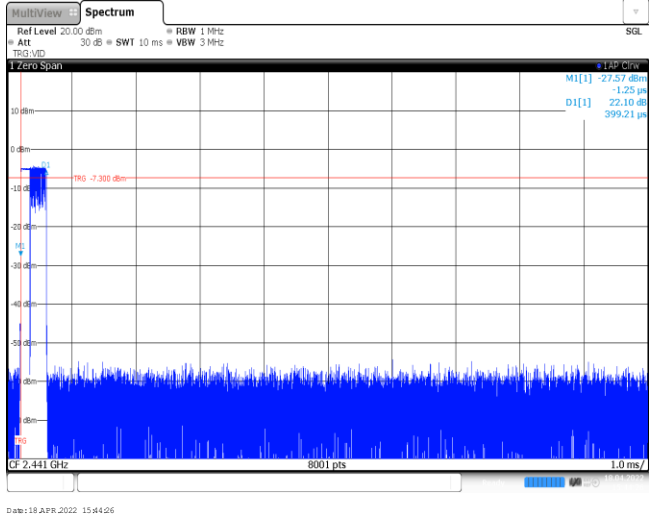
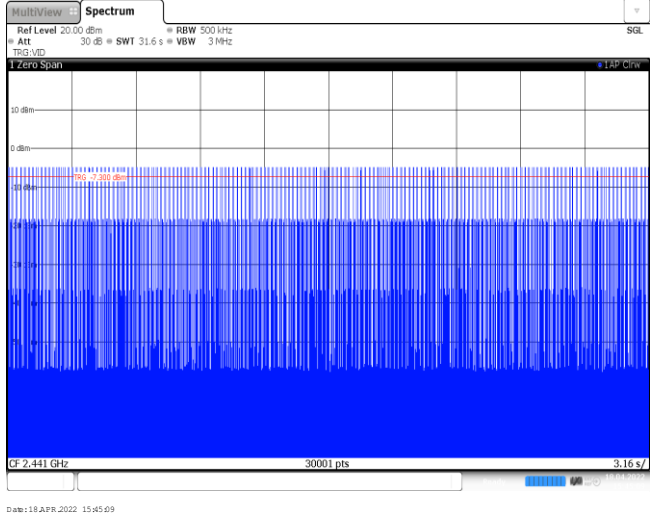
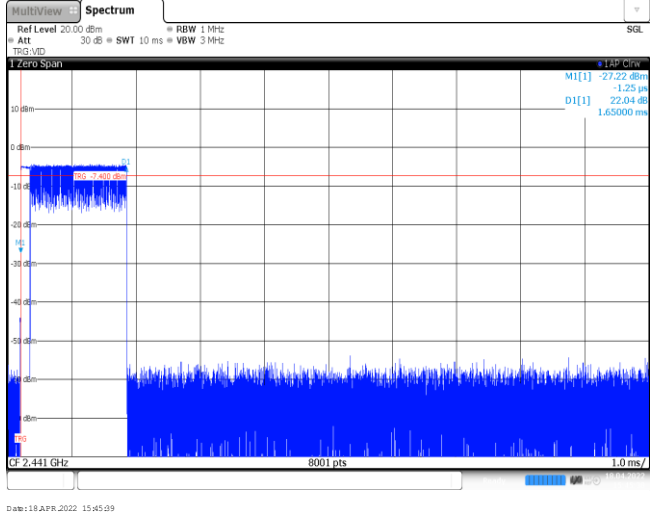
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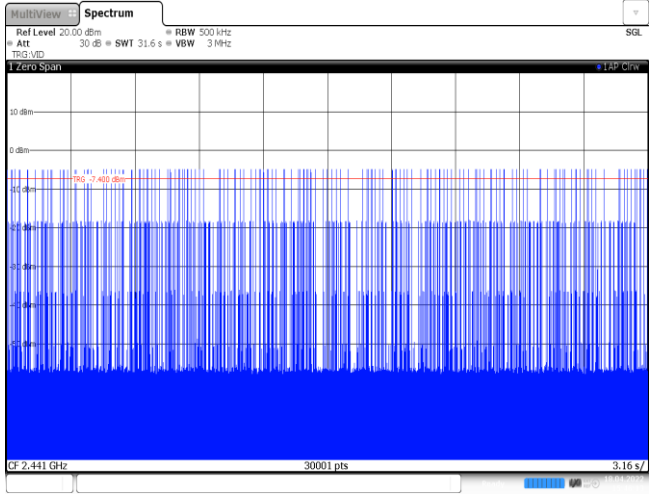
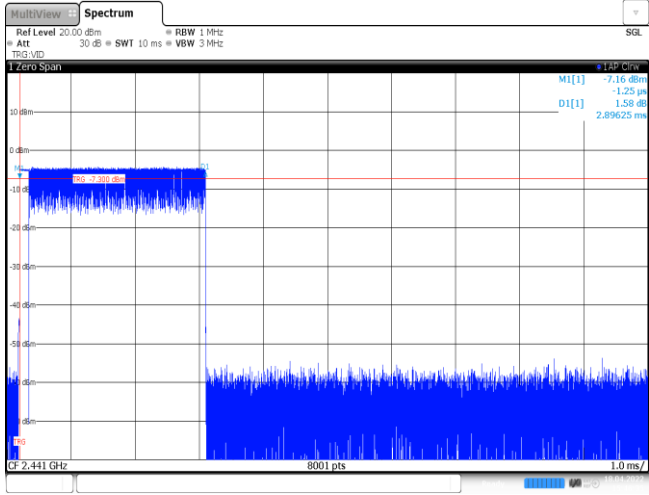
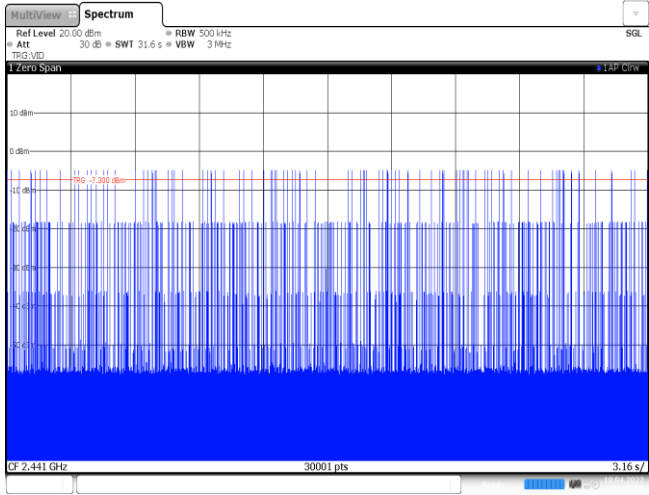
Appendix F: Dwell Time

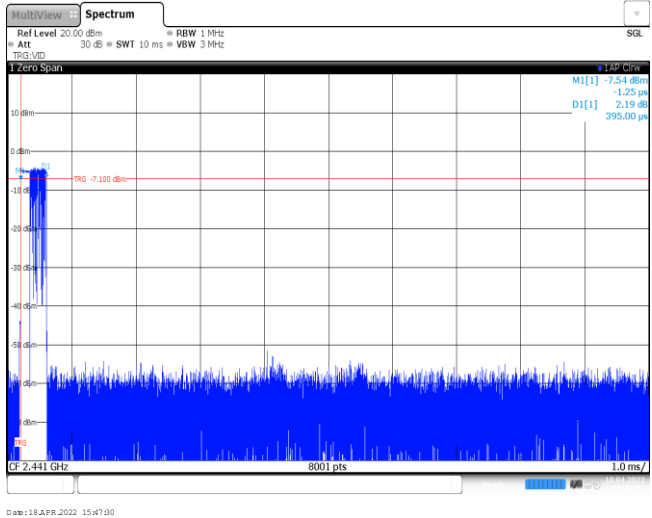
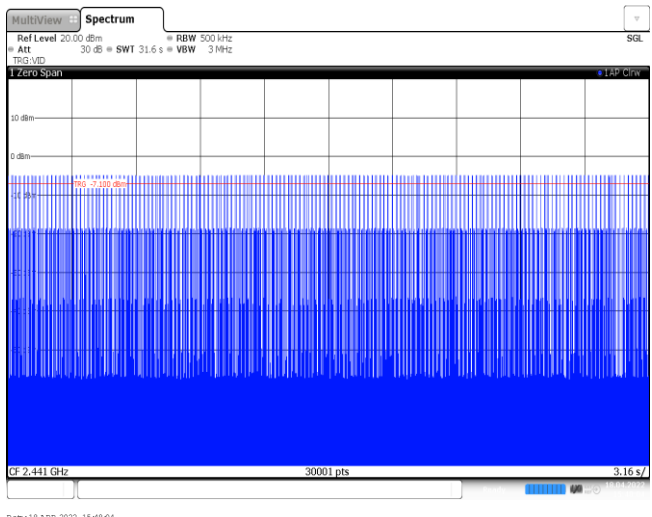
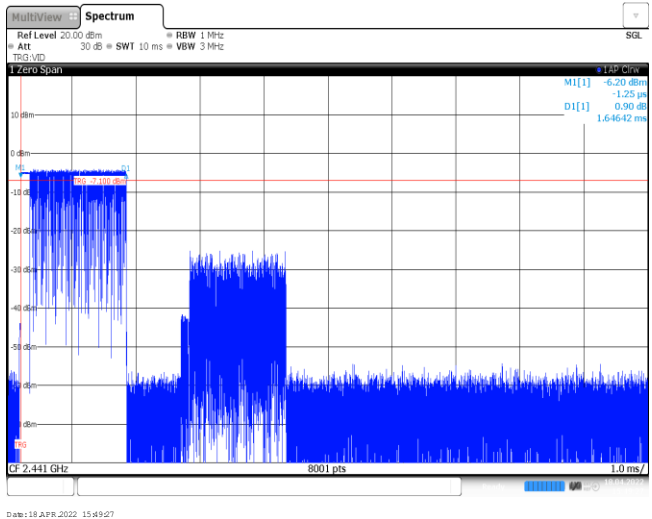
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.40	320	0.13	≤ 0.40	Pass
	DH3	1.66	165	0.27		
	DH5	2.91	115	0.34		
$\pi/4$ DQPSK	2DH1	0.40	321	0.13	≤ 0.40	Pass
	2DH3	1.65	159	0.26		
	2DH5	2.90	93	0.27		
8DPSK	3DH1	0.39	320	0.13	≤ 0.40	Pass
	3DH3	1.65	172	0.28		
	3DH5	2.90	105	0.30		

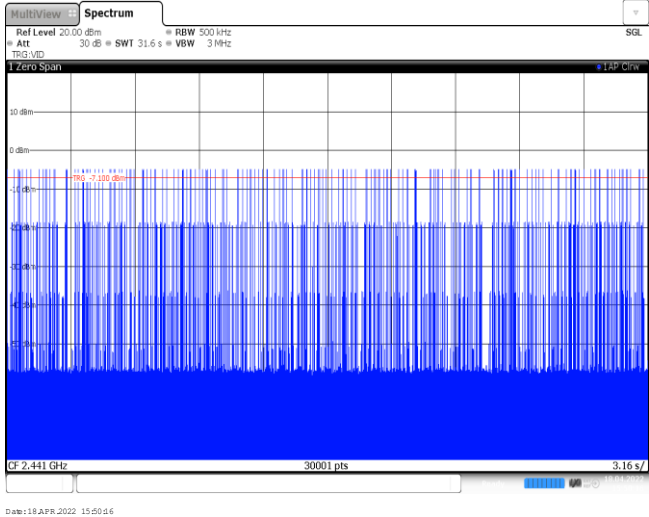
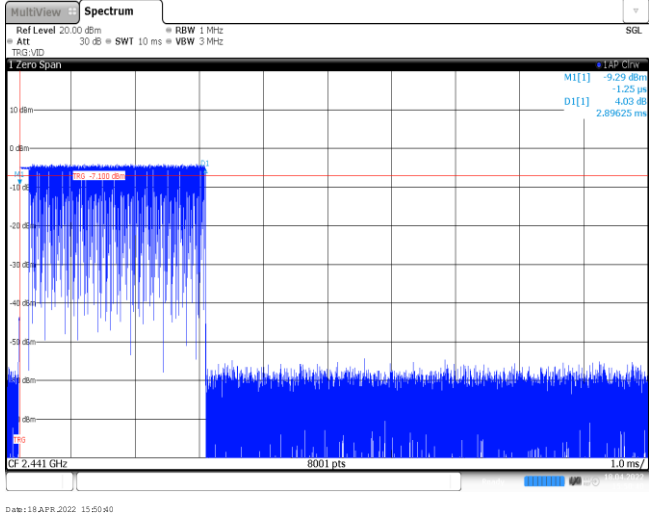
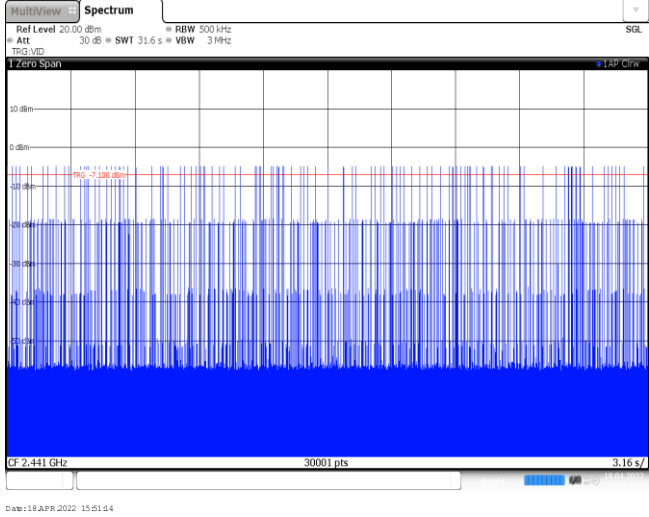
Modulation Type:	GFSK
DH1 Burst width	 The spectrum plot shows a single burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -7.900 dBm. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is identified as M1[1] with a value of -12.57 dBm, and D1[1] with a value of 7.39 dBm. The plot also shows a time scale of 1.0 ms and a resolution of 8001 pts.
DH1 Burst number	 The spectrum plot shows a continuous burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -7.900 dBm. The plot shows a dense, continuous signal across the entire frequency range, indicating a high data rate. The signal is identified as M1[1] with a value of -12.57 dBm, and D1[1] with a value of 7.39 dBm. The plot also shows a time scale of 3.16 s and a resolution of 30001 pts.
DH3 Burst width	 The spectrum plot shows a single burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -7.900 dBm. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is identified as M1[1] with a value of -12.57 dBm, and D1[1] with a value of 7.39 dBm. The plot also shows a time scale of 1.0 ms and a resolution of 8001 pts.

DH3 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A blue spectral trace shows a dense burst of energy. A red horizontal line is drawn at -7.900 dBm. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date '18 APR 2022 15:41:11' is visible at the bottom left.
DH5 Burst width	 The screenshot shows a zoomed-in view of the spectrum analyzer. The y-axis ranges from -50 to 10 dBm. The x-axis is centered at 2.441 GHz. A blue spectral trace shows a burst of energy. A red horizontal line is drawn at -7.900 dBm. The status bar at the bottom indicates 'CF 2.441 GHz', '8001 pts', and '1.0 ms'. The date '18 APR 2022 15:41:12' is visible at the bottom left.
DH5 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A blue spectral trace shows a dense burst of energy. A red horizontal line is drawn at -7.900 dBm. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date '18 APR 2022 15:42:06' is visible at the bottom left.

Modulation Type:	$\pi/4$ DQPSK
2DH1 Burst width	 The spectrum plot shows a signal centered at 2.441 GHz. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.435 to 2.447. A red horizontal line indicates the noise floor at -7.300 dBm. The signal is a narrowband burst. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot includes a 'Ref Level' of 20.00 dBm, an 'Att' of 30 dB, a 'SWT' of 10 ms, and a 'VBW' of 3 MHz. The plot includes a 'Date' of 18 APR 2022 15:44:26.
2DH1 Burst number	 The spectrum plot shows a signal centered at 2.441 GHz. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.435 to 2.447. A red horizontal line indicates the noise floor at -7.300 dBm. The signal is a narrowband burst. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot includes a 'Ref Level' of 20.00 dBm, an 'Att' of 30 dB, a 'SWT' of 31.6 s, and a 'VBW' of 3 MHz. The plot includes a 'Date' of 18 APR 2022 15:45:09.
2DH3 Burst width	 The spectrum plot shows a signal centered at 2.441 GHz. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 2.435 to 2.447. A red horizontal line indicates the noise floor at -7.400 dBm. The signal is a narrowband burst. The plot includes a 'Zero Span' view and a 'Spectrum' view. The 'Spectrum' view shows the signal's power spectral density. The 'Zero Span' view shows the signal's time-domain characteristics. The plot includes a 'Ref Level' of 20.00 dBm, an 'Att' of 30 dB, a 'SWT' of 10 ms, and a 'VBW' of 3 MHz. The plot includes a 'Date' of 18 APR 2022 15:45:09.

2DH3 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A blue spectral trace shows a dense band of energy between approximately -20 dBm and -40 dBm. A red horizontal line is drawn at -10 dBm. The bottom status bar indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date '18 APR 2022 15:46:13' is visible at the bottom.
2DH5 Burst width	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A blue spectral trace shows a burst of energy between approximately -20 dBm and -40 dBm. A red horizontal line is drawn at -10 dBm. The bottom status bar indicates 'CF 2.441 GHz', '8001 pts', and '1.0 ms'. The date '18 APR 2022 15:46:05' is visible at the bottom.
2DH5 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A blue spectral trace shows a dense band of energy between approximately -20 dBm and -40 dBm. A red horizontal line is drawn at -10 dBm. The bottom status bar indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date '18 APR 2022 15:47:09' is visible at the bottom.

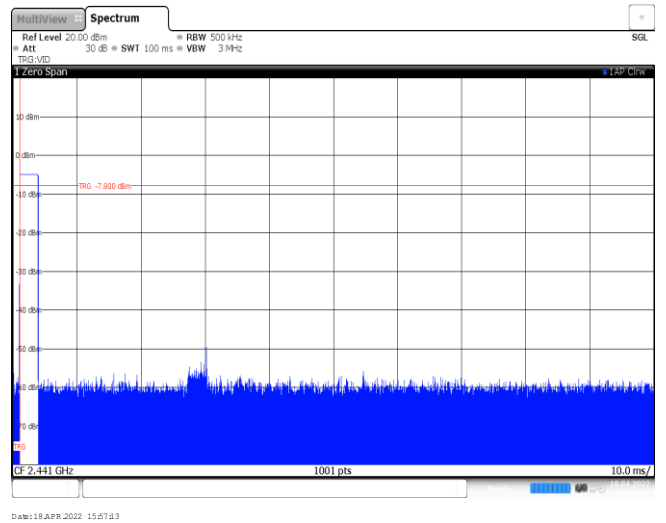
Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a single burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red trace line indicates a peak power level of -7.100 dBm. The plot shows a sharp peak at the start of the burst, followed by a rapid decay. The background noise floor is around -90 dBm. 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: 18 APR 2022 15:47:20
3DH1 Burst number	 The spectrum plot shows a continuous burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The x-axis represents time in s, ranging from 0 to 3.16. A red trace line indicates a peak power level of -7.100 dBm. The plot shows a dense, continuous signal throughout the duration. 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: 18 APR 2022 15:48:04
3DH3 Burst width	 The spectrum plot shows a burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red trace line indicates a peak power level of -7.100 dBm. The plot shows a sharp peak at the start of the burst, followed by a rapid decay. The background noise floor is around -90 dBm. 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: 18 APR 2022 15:49:27

3DH3 Burst number	
3DH5 Burst width	
3DH5 Burst number	

Appendix G: Duty Cycle Correction Factor (DCCF)

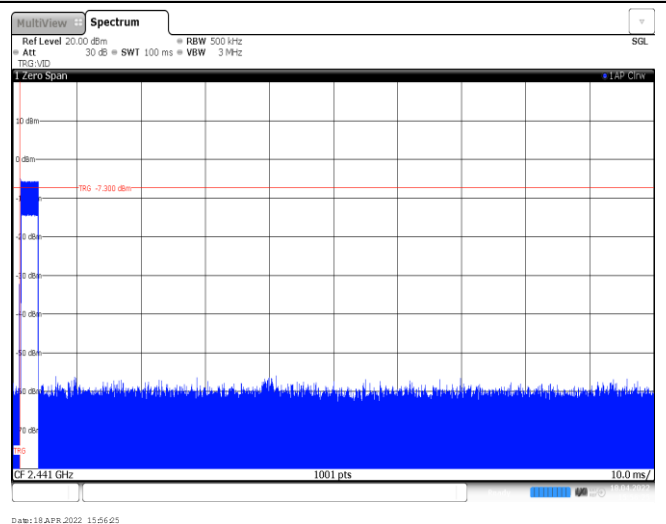
DCCF Calculate Formula					
$DCCF = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.90	100	1	-30.75
$\pi/4$ DQPSK	2441	2.89	100	1	-30.78
8DPSK	2441	2.89	100	1	-30.78

GFSK



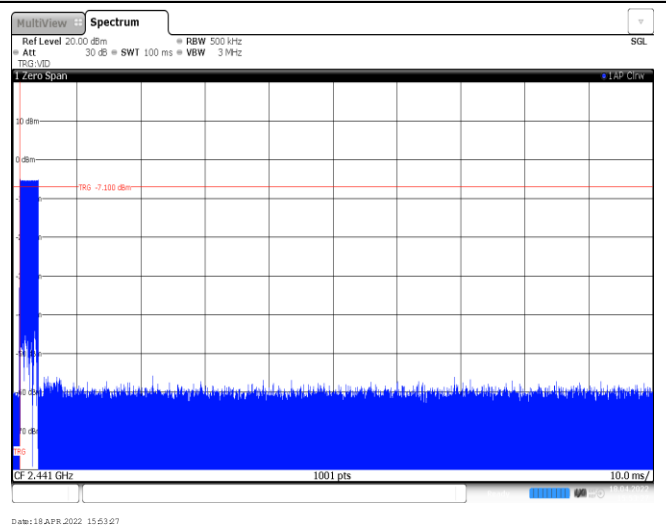
Burst Quantity

$\pi/4$ DQPSK



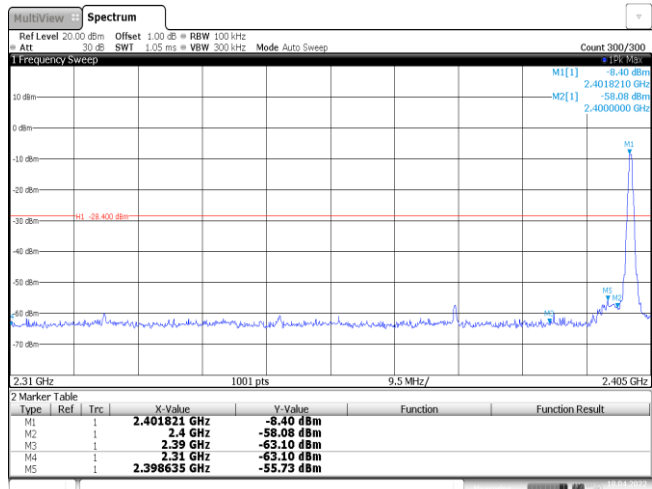
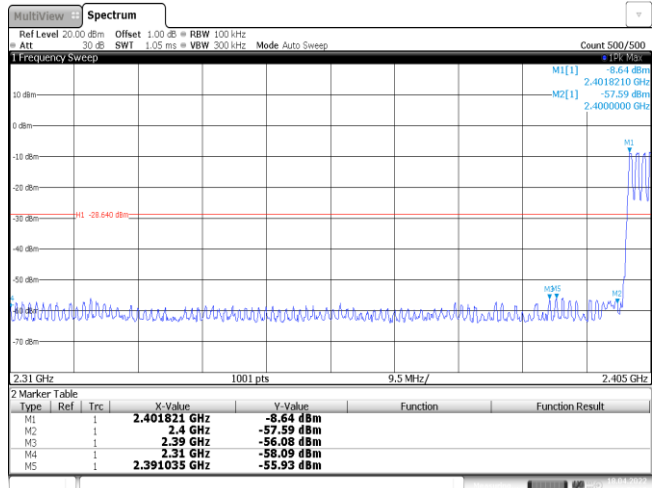
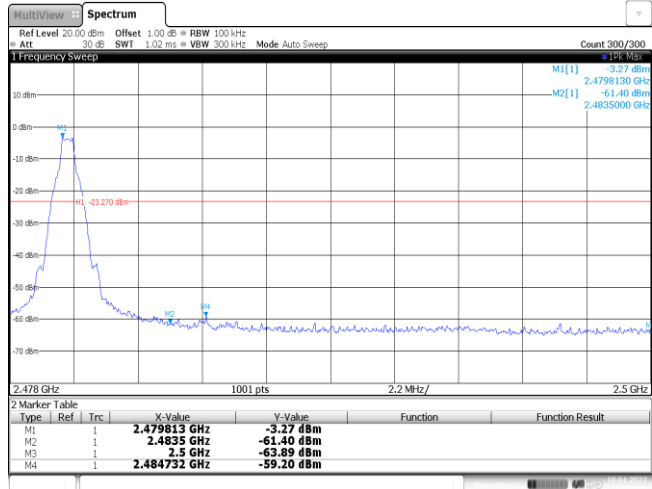
Burst Quantity

8DPSK

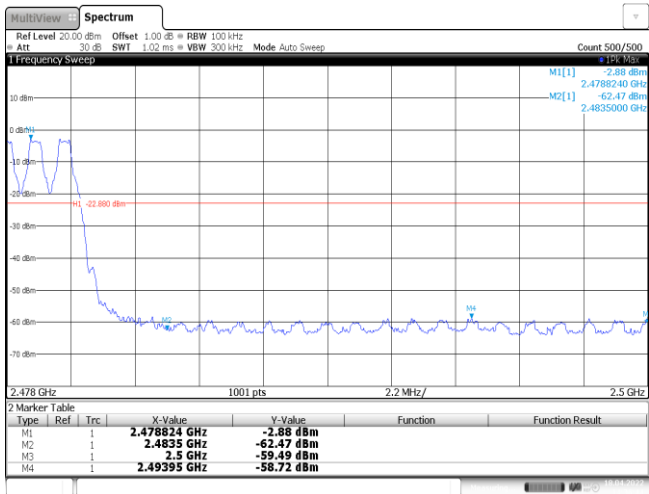


Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
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 200/300 Frequency Sweep M1 [1] -8.40 dBm 2.401821 GHz M2 [1] -58.08 dBm 2.400000 GHz  2.31 GHz1001 pts9.5 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>2.401821 GHz</td><td>-8.40 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-58.08 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.10 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.10 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398635 GHz</td><td>-55.73 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 14:22:50			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-8.40 dBm			M2	1		2.4 GHz	-58.08 dBm			M3	1		2.39 GHz	-63.10 dBm			M4	1		2.31 GHz	-63.10 dBm			M5	1		2.398635 GHz	-55.73 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401821 GHz	-8.40 dBm																																									
M2	1		2.4 GHz	-58.08 dBm																																									
M3	1		2.39 GHz	-63.10 dBm																																									
M4	1		2.31 GHz	-63.10 dBm																																									
M5	1		2.398635 GHz	-55.73 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] -8.64 dBm 2.401821 GHz M2 [1] -57.59 dBm 2.400000 GHz  2.31 GHz1001 pts9.5 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>2.401821 GHz</td><td>-8.64 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-57.59 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.08 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-58.09 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.391035 GHz</td><td>-55.93 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 14:05:02			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-8.64 dBm			M2	1		2.4 GHz	-57.59 dBm			M3	1		2.39 GHz	-56.08 dBm			M4	1		2.31 GHz	-58.09 dBm			M5	1		2.391035 GHz	-55.93 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401821 GHz	-8.64 dBm																																									
M2	1		2.4 GHz	-57.59 dBm																																									
M3	1		2.39 GHz	-56.08 dBm																																									
M4	1		2.31 GHz	-58.09 dBm																																									
M5	1		2.391035 GHz	-55.93 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 300/300 Frequency Sweep M1 [1] -3.27 dBm 2.479813 GHz M2 [1] -61.40 dBm 2.485000 GHz  2.478 GHz1001 pts2.2 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>2.479813 GHz</td><td>-3.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.48335 GHz</td><td>-61.40 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.89 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484732 GHz</td><td>-59.20 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 14:02:42			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479813 GHz	-3.27 dBm			M2	1		2.48335 GHz	-61.40 dBm			M3	1		2.5 GHz	-63.89 dBm			M4	1		2.484732 GHz	-59.20 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479813 GHz	-3.27 dBm																																									
M2	1		2.48335 GHz	-61.40 dBm																																									
M3	1		2.5 GHz	-63.89 dBm																																									
M4	1		2.484732 GHz	-59.20 dBm																																									

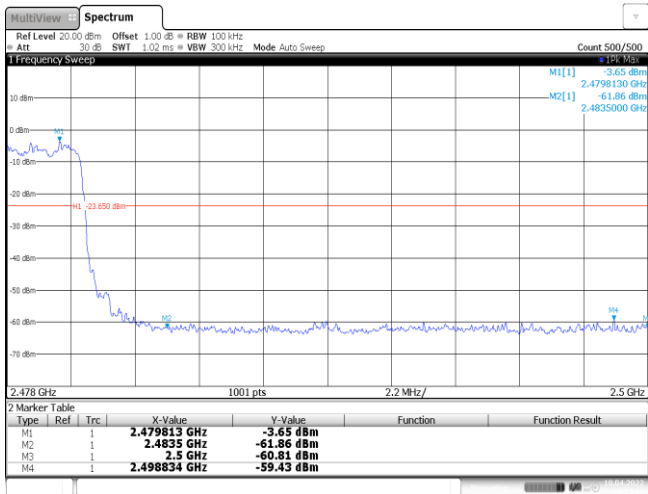
CH78
Hopping mode



Date: 18 APR 2022 14:06:44

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
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] -9.28 dBm 2.4018210 GHz M2[1] -58.45 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>2.401821 GHz</td><td>-9.28 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-58.45 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.88 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.86 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.37593 GHz</td><td>-58.55 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 14:57:45			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-9.28 dBm			M2	1		2.4 GHz	-58.45 dBm			M3	1		2.39 GHz	-63.88 dBm			M4	1		2.31 GHz	-63.86 dBm			M5	1		2.37593 GHz	-58.55 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401821 GHz	-9.28 dBm																																									
M2	1		2.4 GHz	-58.45 dBm																																									
M3	1		2.39 GHz	-63.88 dBm																																									
M4	1		2.31 GHz	-63.86 dBm																																									
M5	1		2.37593 GHz	-58.55 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] -9.25 dBm 2.4018210 GHz M2[1] -57.95 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>2.401821 GHz</td><td>-9.25 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-57.95 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-58.31 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-59.04 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39702 GHz</td><td>-57.17 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 15:02:04			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-9.25 dBm			M2	1		2.4 GHz	-57.95 dBm			M3	1		2.39 GHz	-58.31 dBm			M4	1		2.31 GHz	-59.04 dBm			M5	1		2.39702 GHz	-57.17 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401821 GHz	-9.25 dBm																																									
M2	1		2.4 GHz	-57.95 dBm																																									
M3	1		2.39 GHz	-58.31 dBm																																									
M4	1		2.31 GHz	-59.04 dBm																																									
M5	1		2.39702 GHz	-57.17 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] -3.08 dBm 2.4798350 GHz M2[1] -59.95 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>2.479835 GHz</td><td>-3.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.95 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.40 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483522 GHz</td><td>-60.00 dBm</td><td></td><td></td></tr></table> Date: 18 APR 2022 15:01:52			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	-3.08 dBm			M2	1		2.4835 GHz	-59.95 dBm			M3	1		2.5 GHz	-64.40 dBm			M4	1		2.483522 GHz	-60.00 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479835 GHz	-3.08 dBm																																									
M2	1		2.4835 GHz	-59.95 dBm																																									
M3	1		2.5 GHz	-64.40 dBm																																									
M4	1		2.483522 GHz	-60.00 dBm																																									

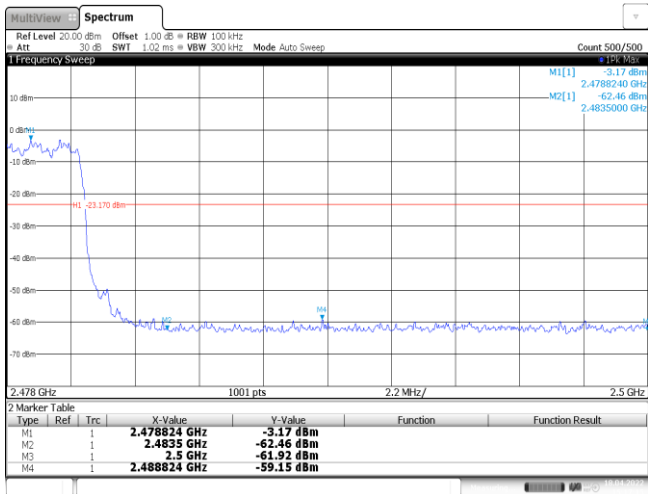
CH78
Hopping mode

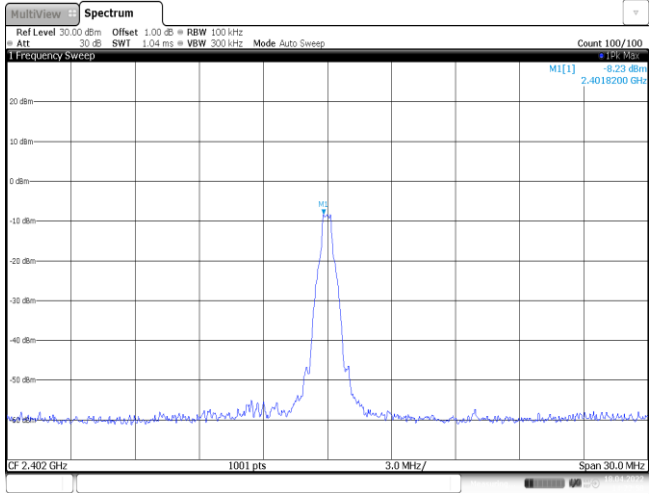
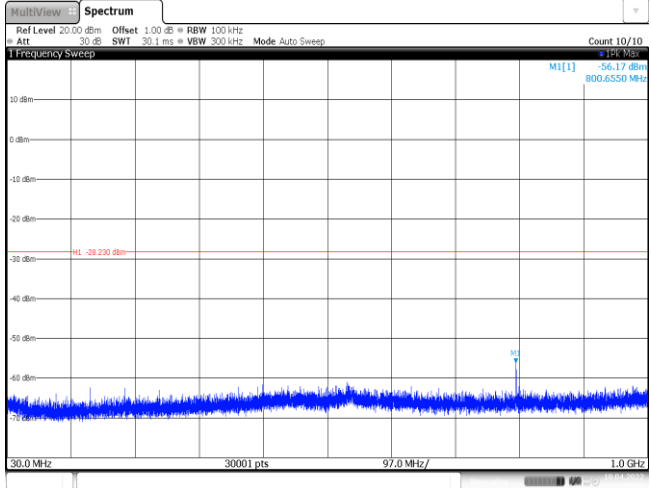
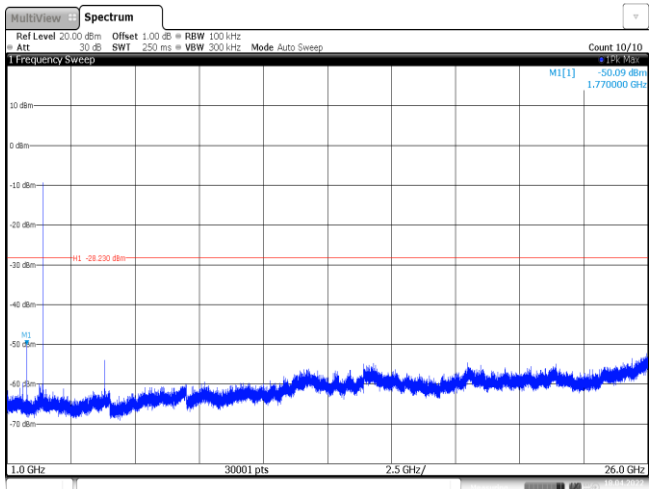


Date: 18 APR 2022 15:03:11

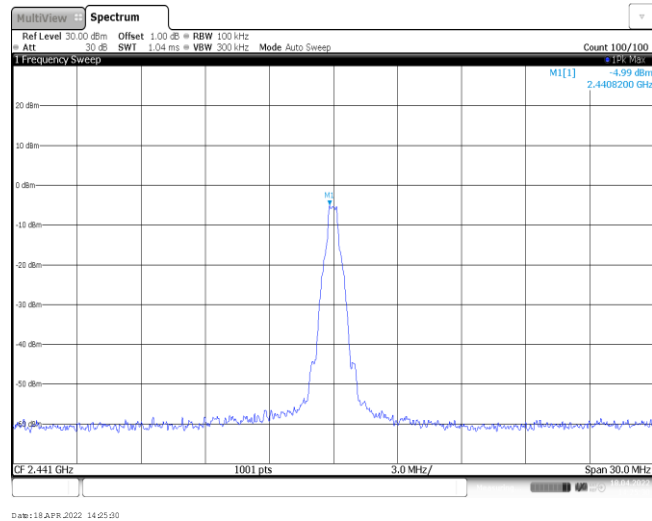
Test Item:	Band edge	Modulation type:	8DPSK
CH00 No hopping mode			

CH78
Hoppig mode

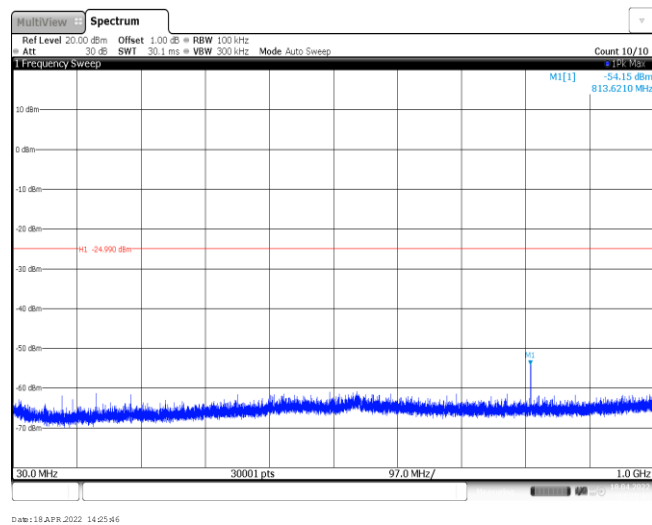


Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

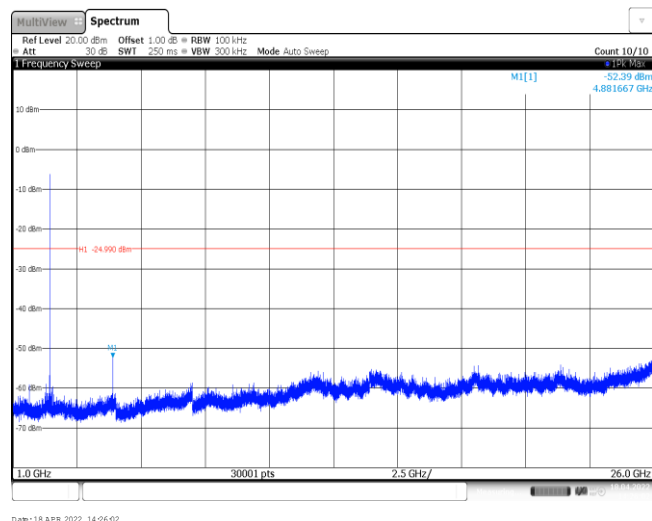
CH39
Reference level



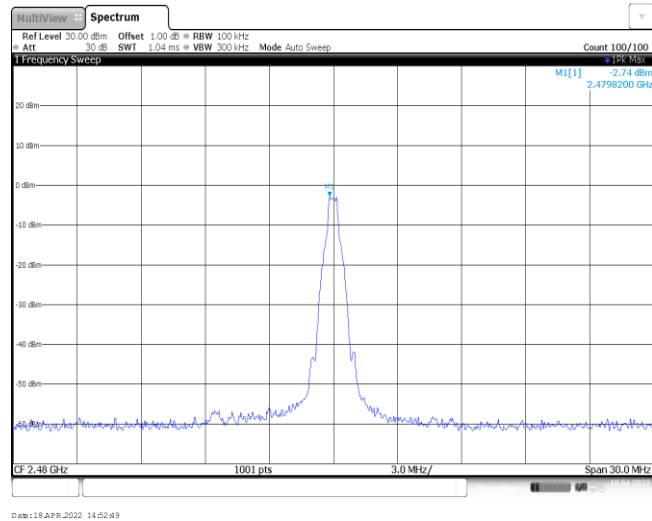
CH39
30MHz~1000MHz



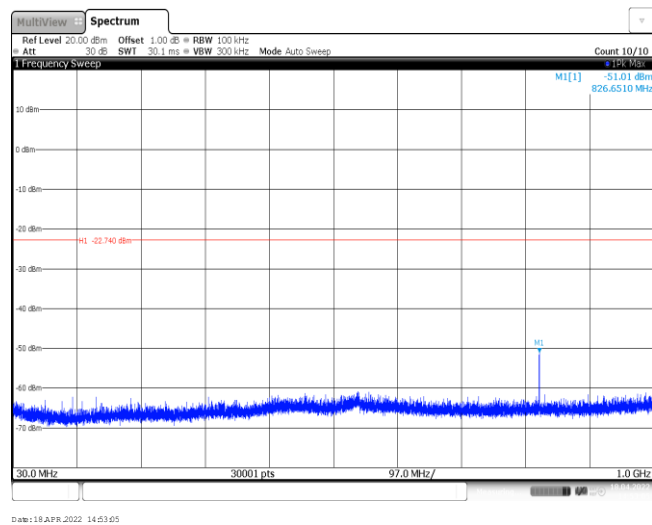
CH39
1GHz~26GHz



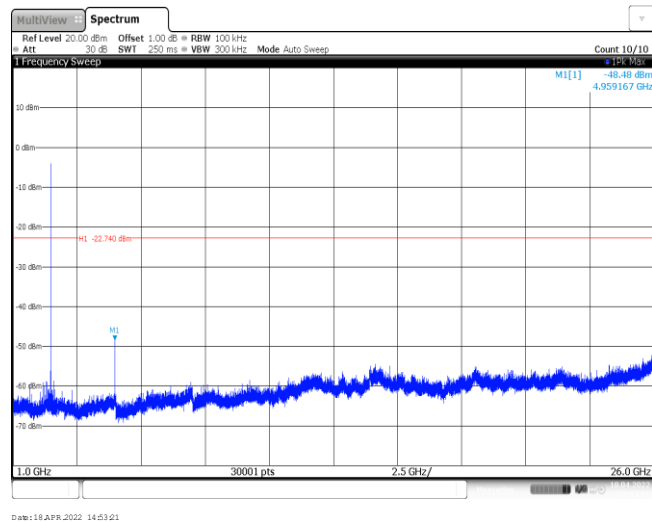
CH78
Reference level

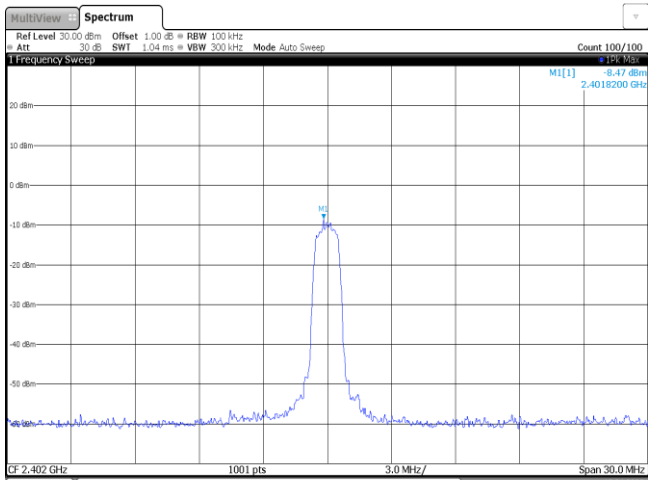
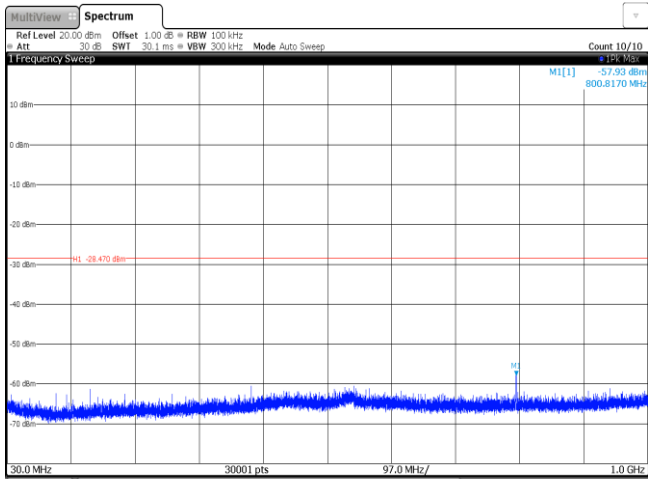
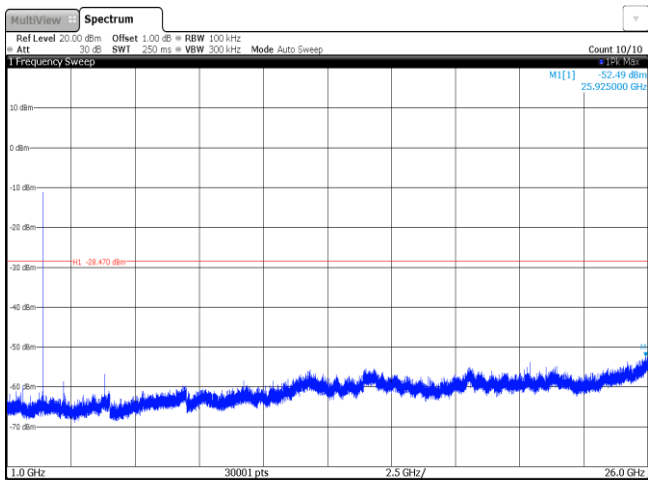


CH78
30MHz~1000MHz

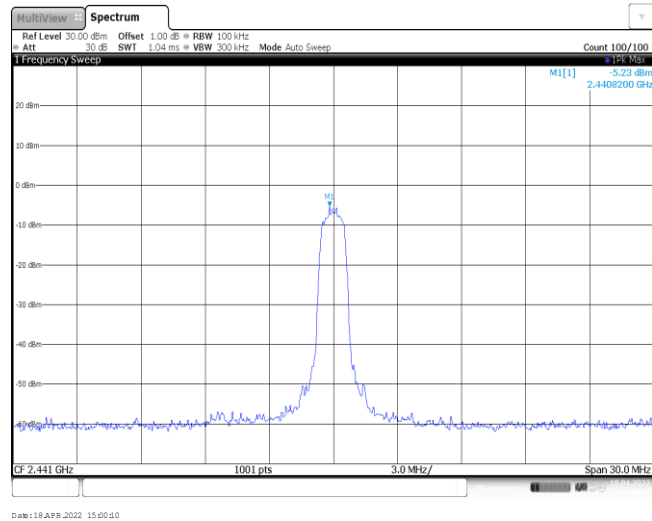


CH78
1GHz~26GHz

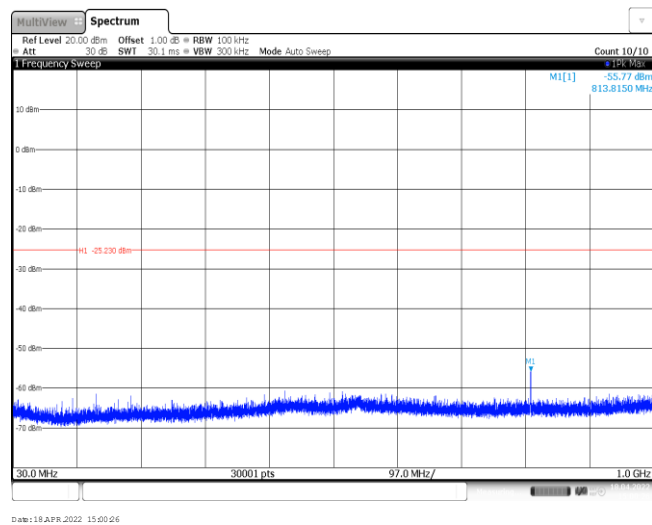


Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

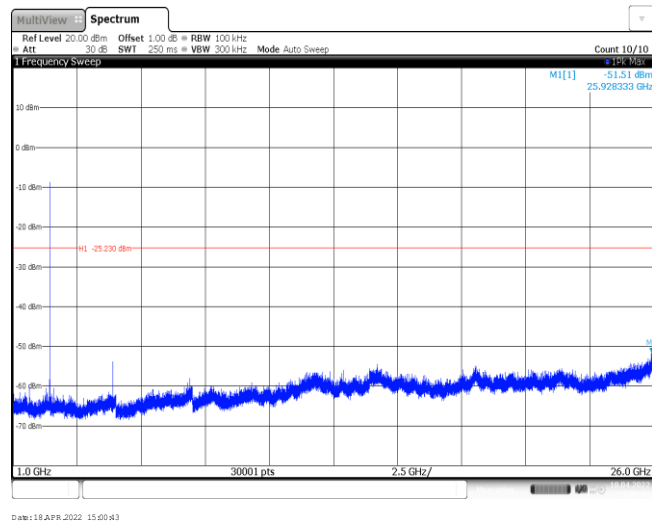
CH39
Reference level



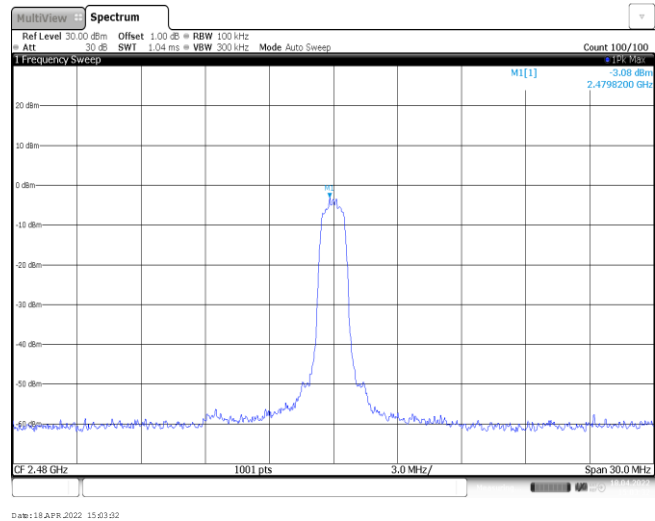
CH39
30MHz~1000MHz



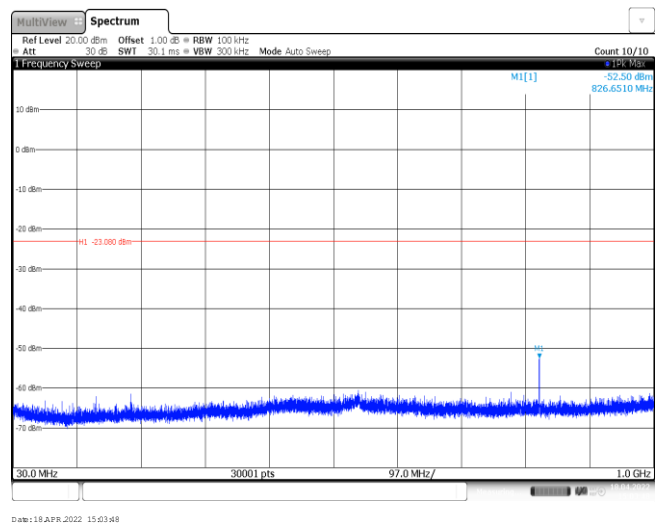
CH39
1GHz~26GHz



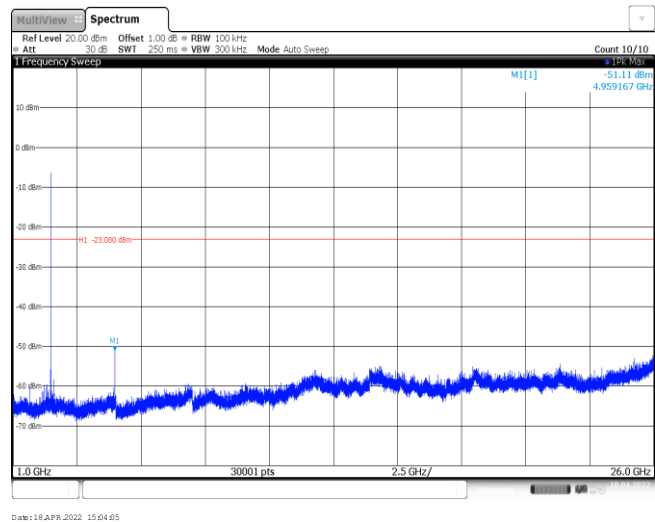
CH78
Reference level

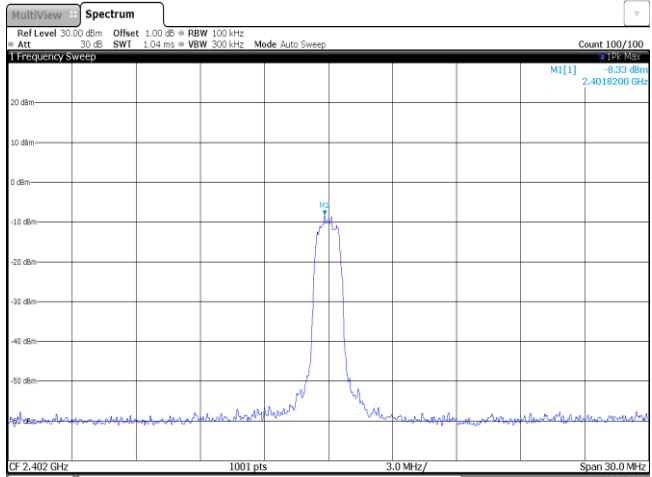
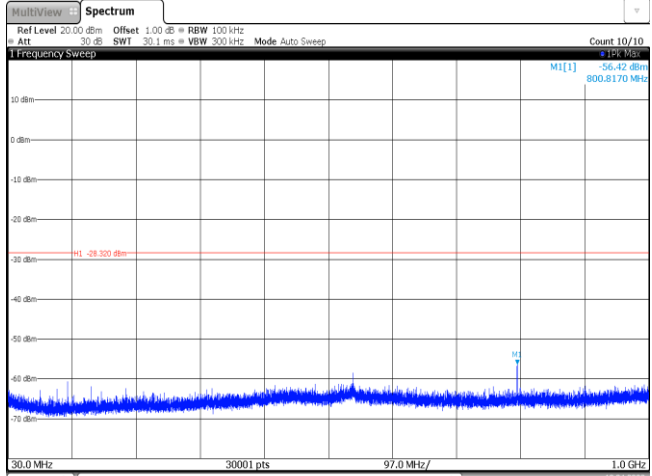
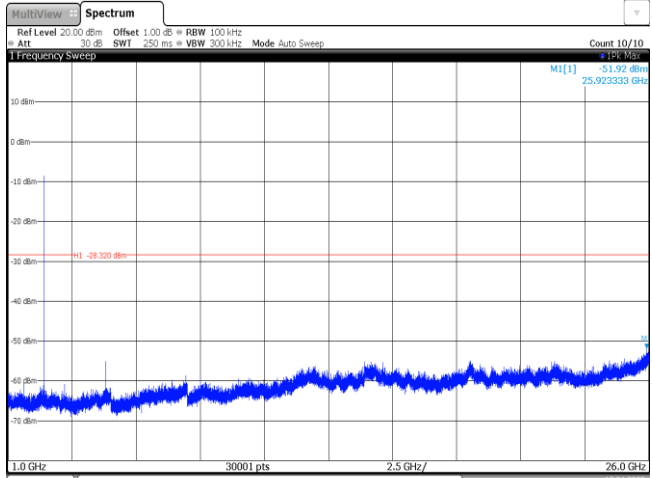


CH78
30MHz~1000MHz

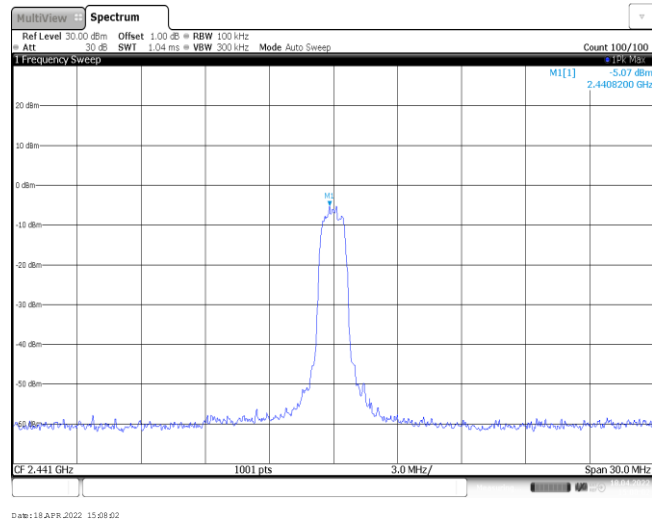


CH78
1GHz~26GHz

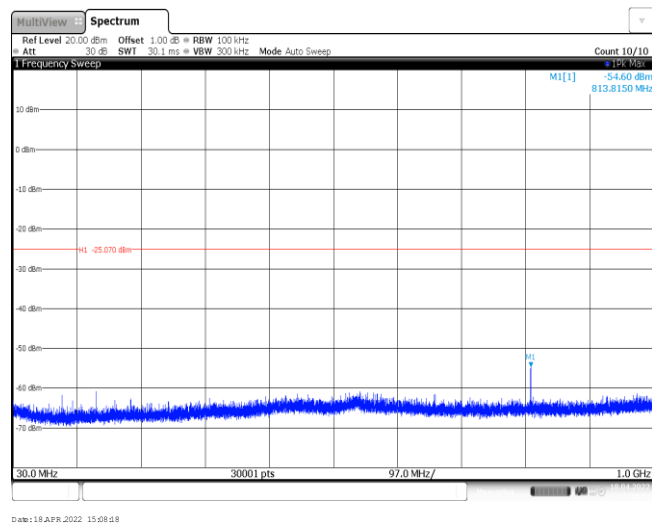


Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -56.42 dBm 2.4016200 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 18 APR 2022 15:05:55		
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -56.42 dBm 800.8170 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 18 APR 2022 15:06:12		
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.92 dBm 25.923333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 18 APR 2022 15:06:28		

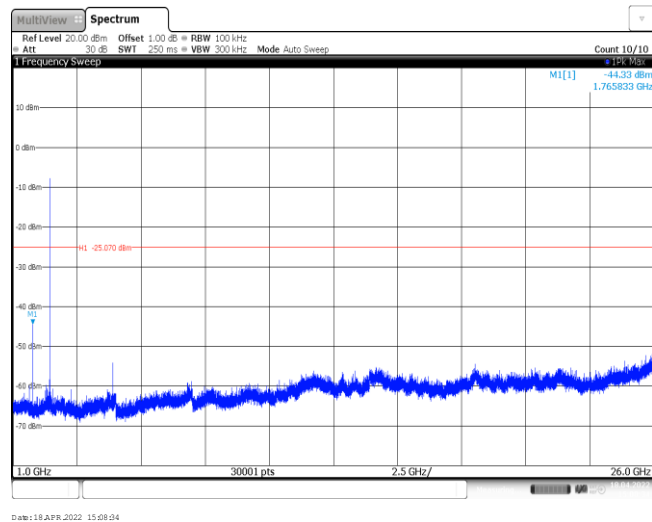
CH39
Reference level



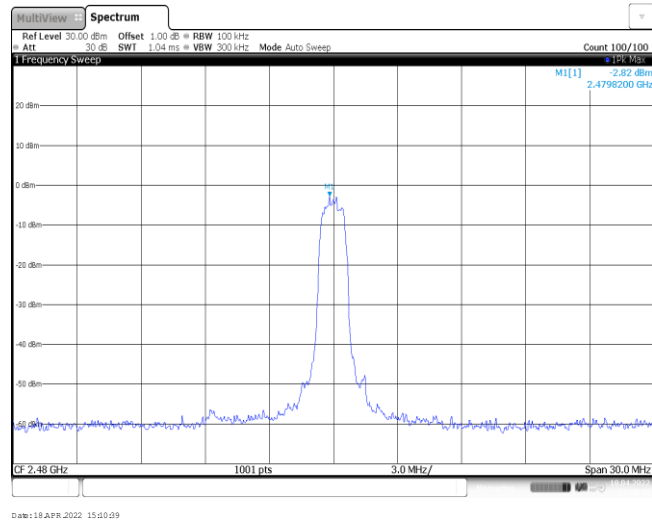
CH39
30MHz~1000MHz



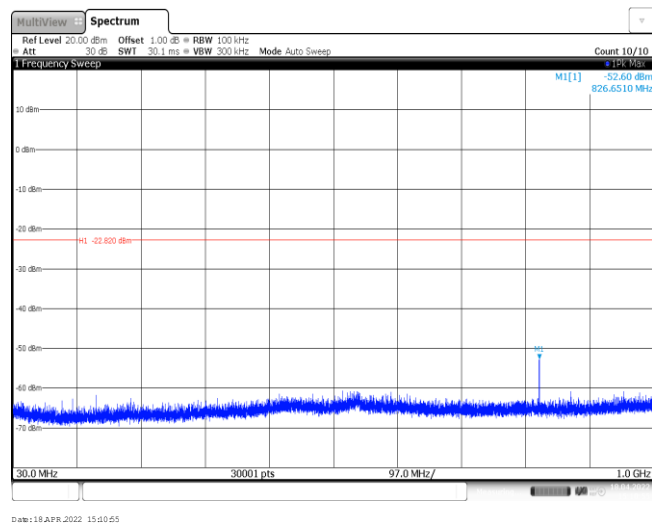
CH39
1GHz~26GHz



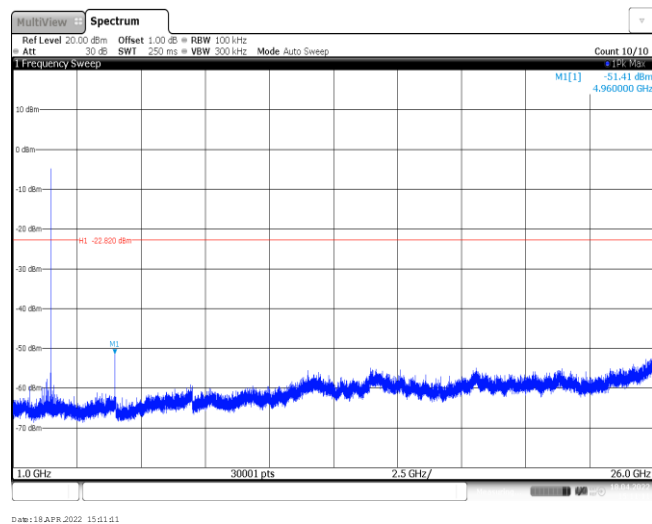
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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