

APPENDIX REPORT

Project No.	SHT2407056602W	Radio Specification	Bluetooth EDR
Test sample No.	YPHT24070566001	Model No.	Q-3588S
Start test date	2024-08-16	Finish date	2024-08-19
Temperature	24.5℃	Humidity	55%
Test Engineer	Chenxin Ling	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

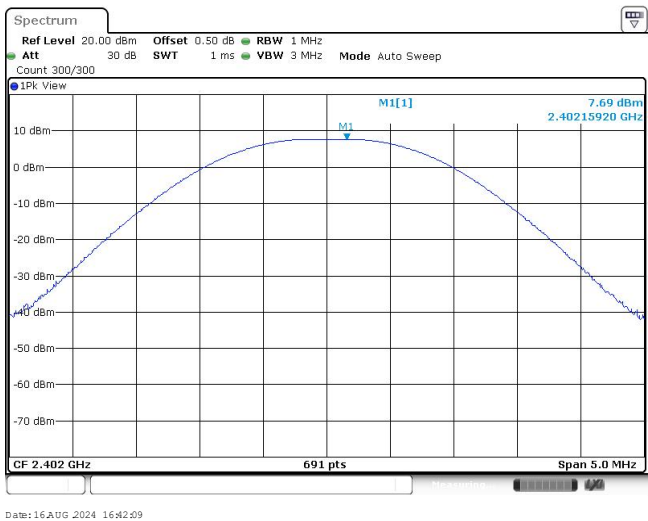
Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	7.69	7.45	≤ 30.00	Pass
	39	7.97	7.72		
	78	7.98	7.73		
$\pi/4$ DQPSK	00	6.58	6.36	≤ 21.00	Pass
	39	6.79	6.54		
	78	6.79	6.55		
8DPSK	00	6.59	6.38	≤ 21.00	Pass
	39	6.79	6.57		
	78	6.79	6.57		

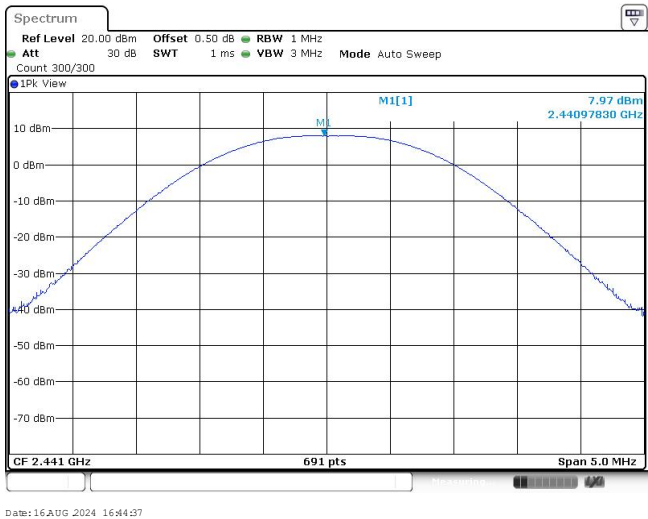
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GFSK

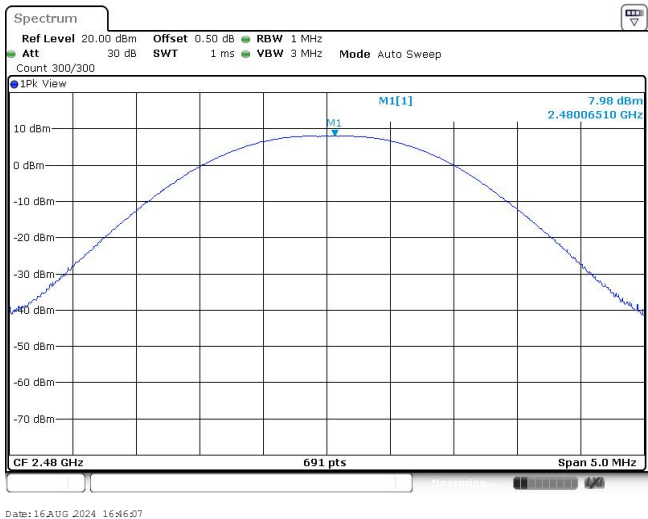
CH00



CH39

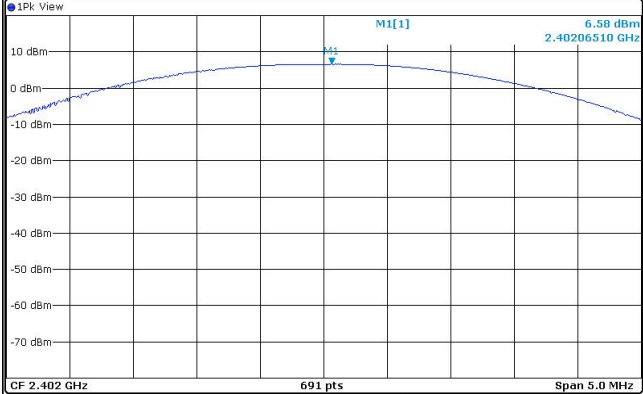
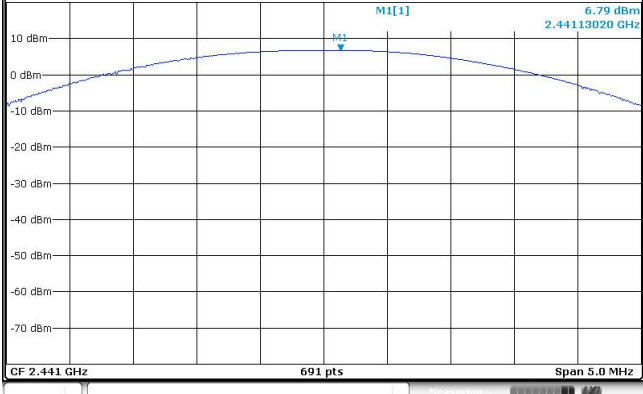
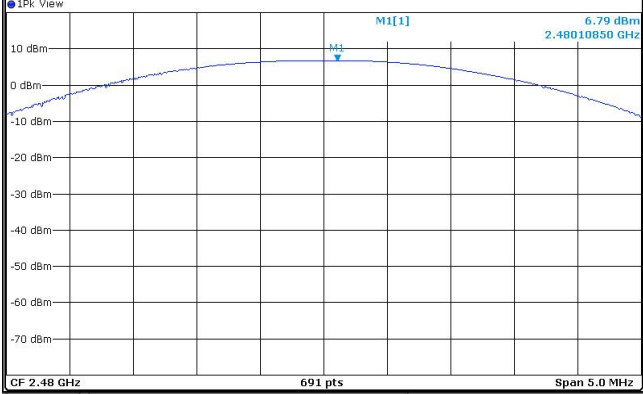


CH78



Modulation Type:

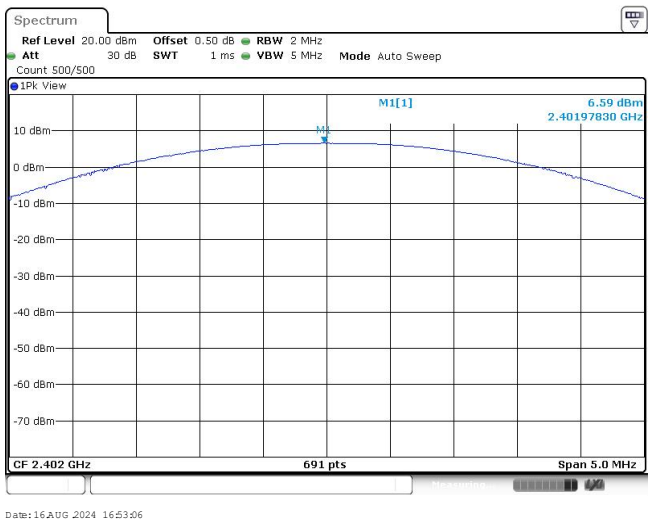
π /4DQPSK

CH00	Spectrum Ref Level 20.00 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 1 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep IPk View M1 M1[1] 6.58 dBm 2.40206510 GHz  CF 2.402 GHz691 ptsSpan 5.0 MHz Date: 16 AUG 2024 16:48:15
CH39	Spectrum Ref Level 20.00 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 1 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep IPk View M1 M1[1] 6.79 dBm 2.44113020 GHz  CF 2.441 GHz691 ptsSpan 5.0 MHz Date: 16 AUG 2024 16:49:48
CH78	Spectrum Ref Level 20.00 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 1 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep IPk View M1 M1[1] 6.79 dBm 2.48010850 GHz  CF 2.48 GHz691 ptsSpan 5.0 MHz Date: 16 AUG 2024 16:51:07

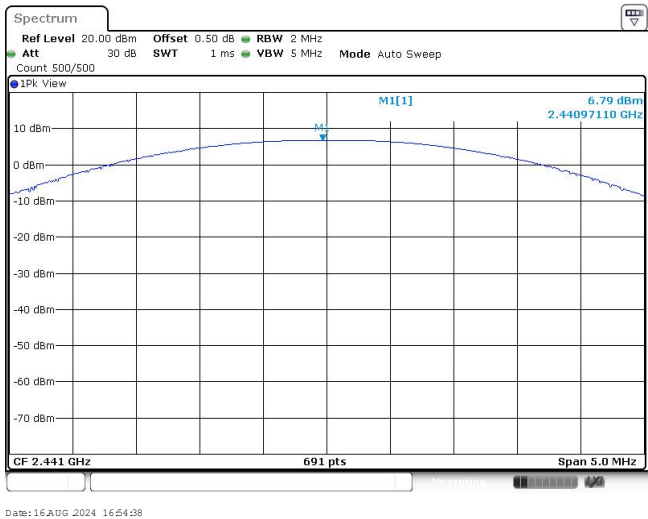
Modulation Type:

8DPSK

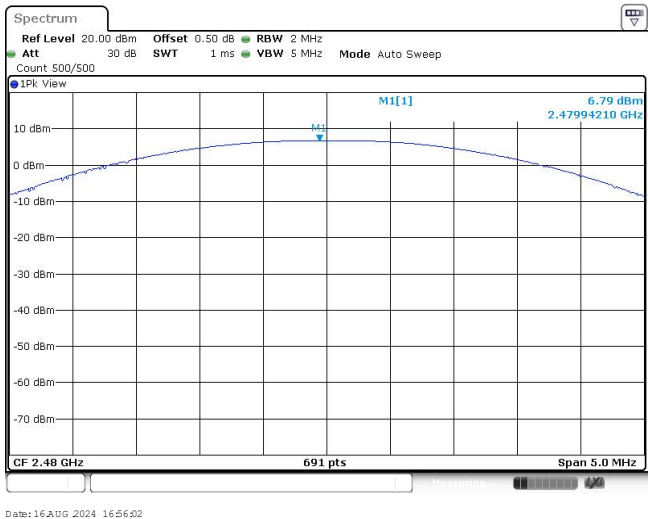
CH00



CH39



CH78



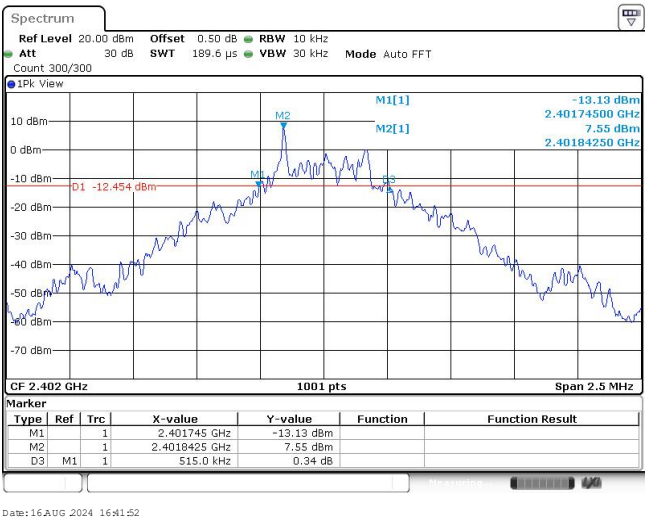
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	515.00	-	Pass
	39	515.00		
	78	515.00		
$\pi/4$ DQPSK	00	1125.00	-	Pass
	39	1125.00		
	78	1123.00		
8DPSK	00	1120.00	-	Pass
	39	1122.00		
	78	1120.00		

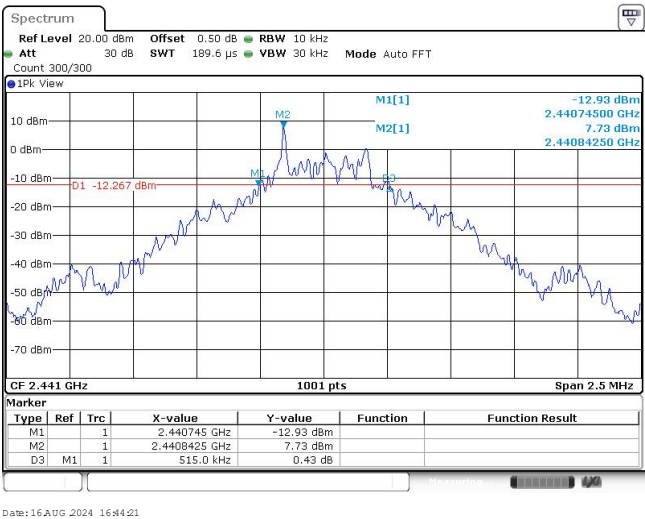
Modulation Type:

GFSK

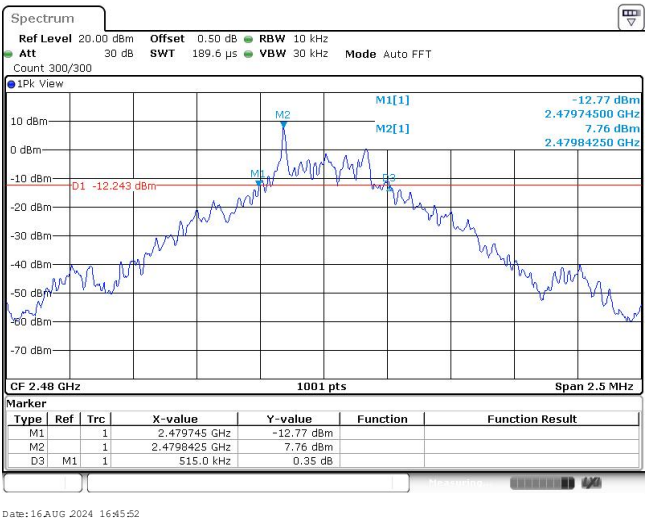
CH00



CH39



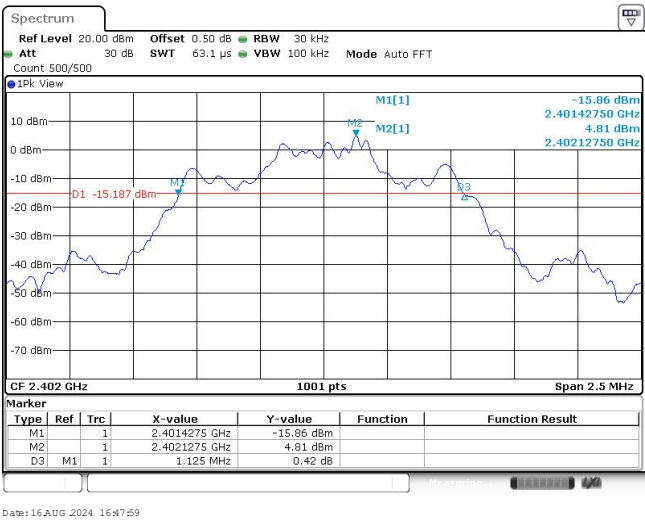
CH78



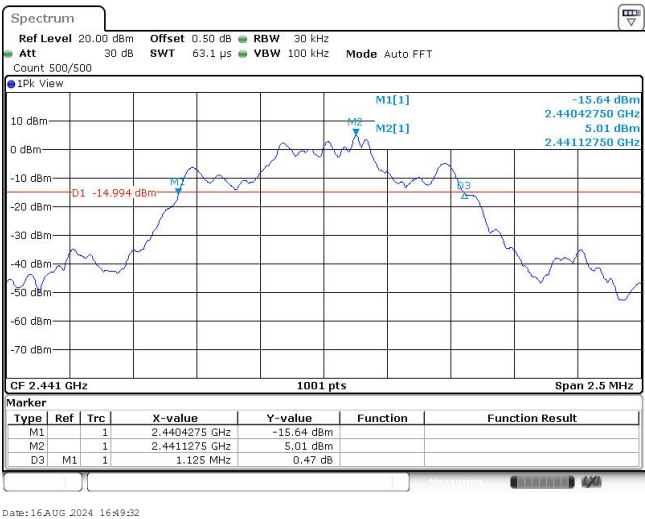
Modulation Type:

$\pi/4$ DQPSK

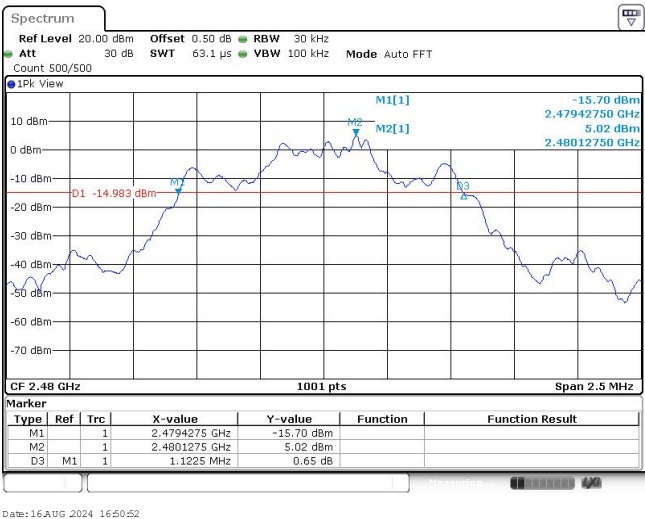
CH00



CH39



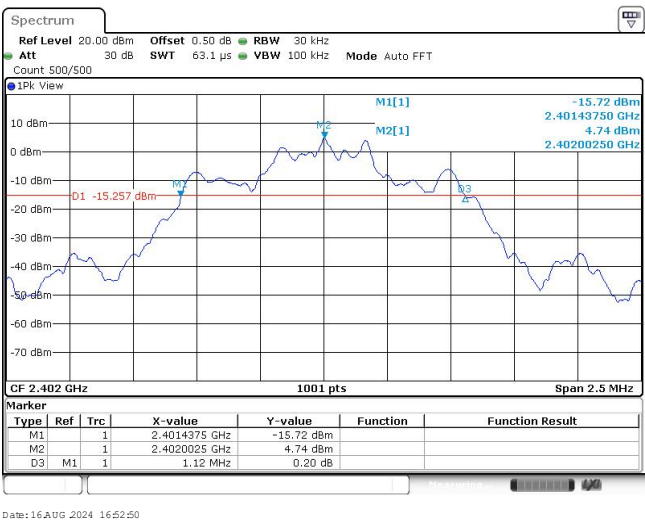
CH78



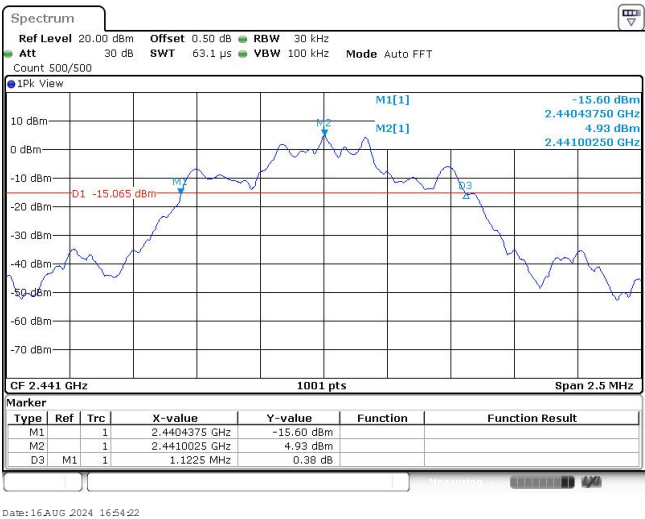
Modulation Type:

8DPSK

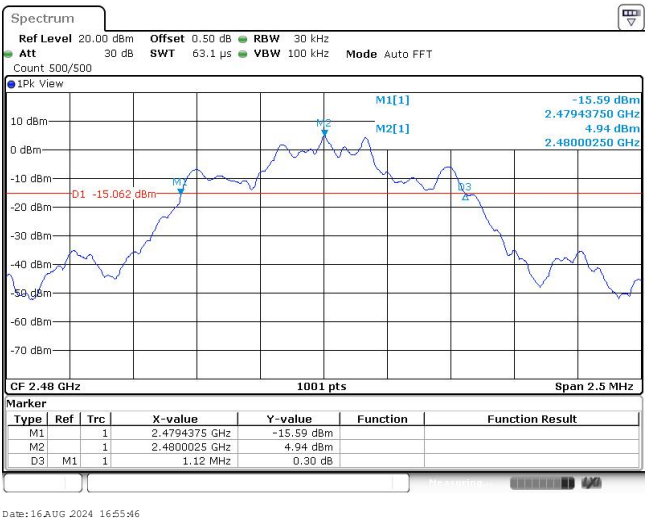
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.85	-	Pass
	39	0.85		
	78	0.85		
$\pi/4$ DQPSK	00	1.07	-	Pass
	39	1.07		
	78	1.07		
8DPSK	00	1.07	-	Pass
	39	1.07		
	78	1.07		

Modulation Type:

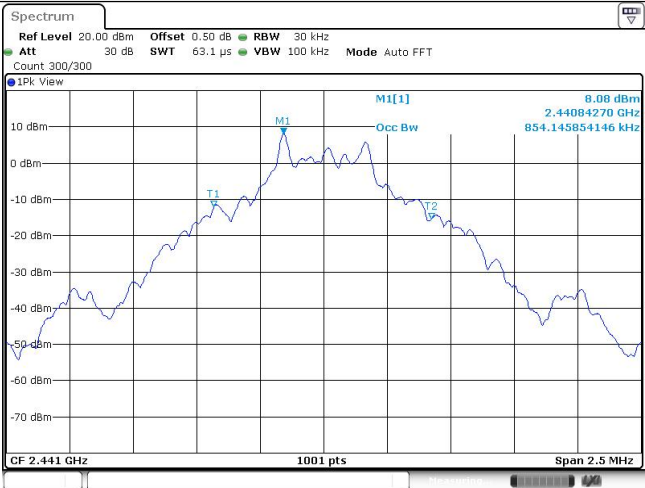
GFSK

CH00



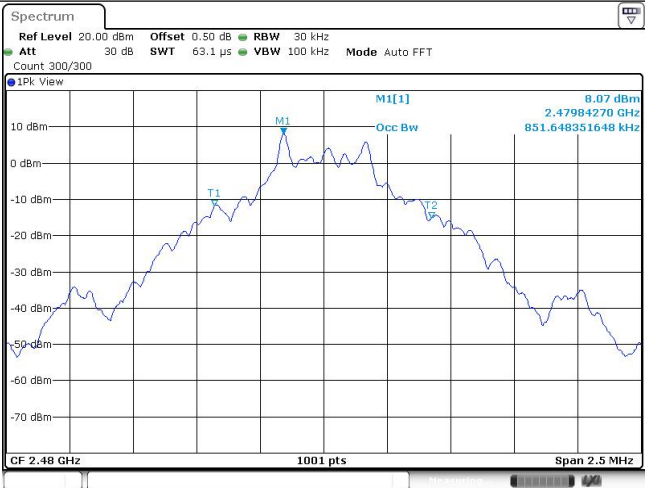
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CH39



Date: 16 AUG 2024 16:44:29

CH78

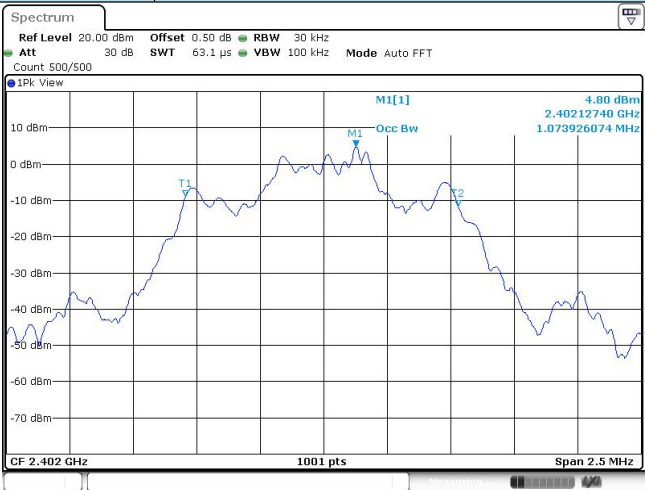


Date: 16 AUG 2024 16:45:59

Modulation Type:

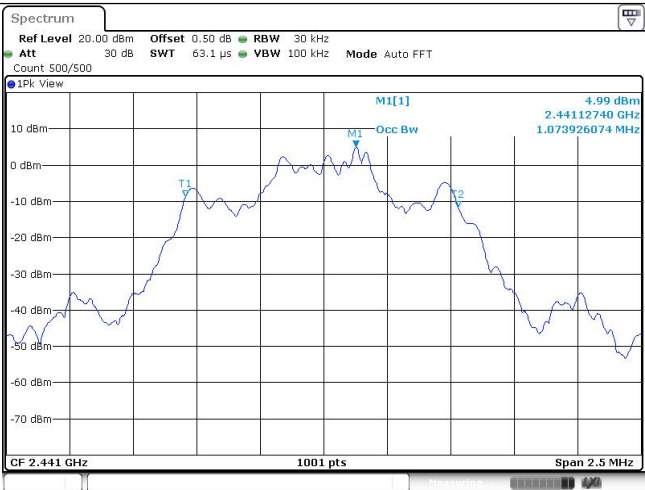
π /4DQPSK

CH00



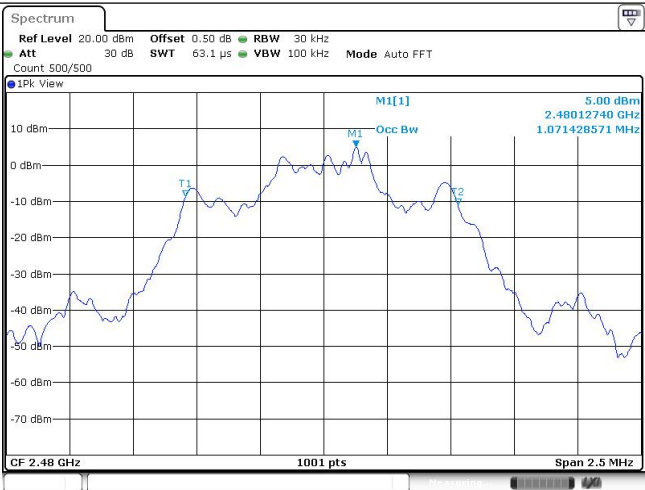
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CH39



Date: 16 AUG 2024 16:49:39

CH78

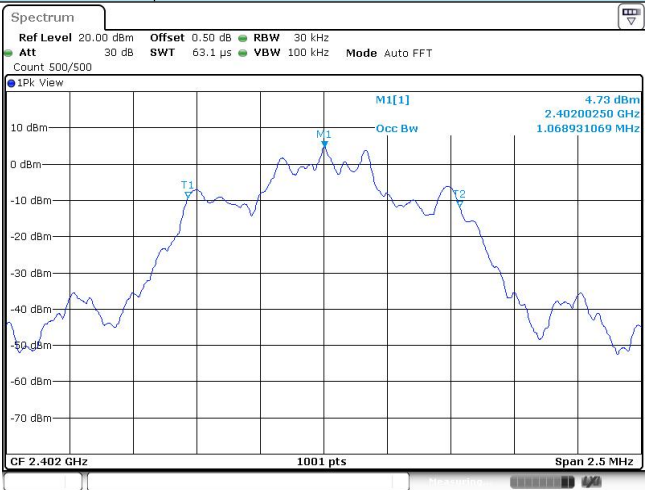


Date: 16 AUG 2024 16:50:59

Modulation Type:

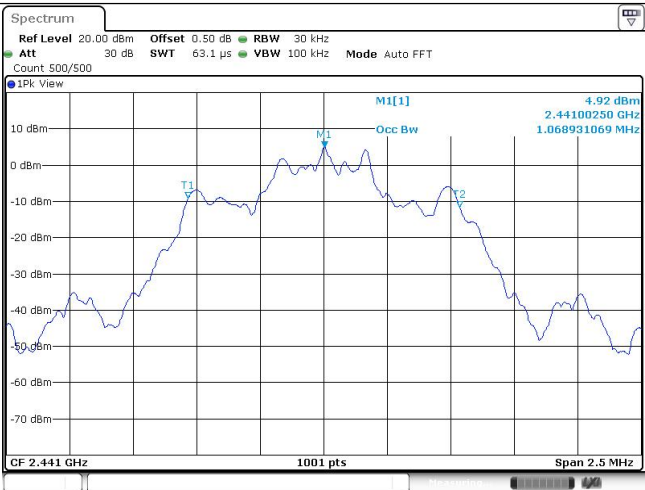
8DPSK

CH00



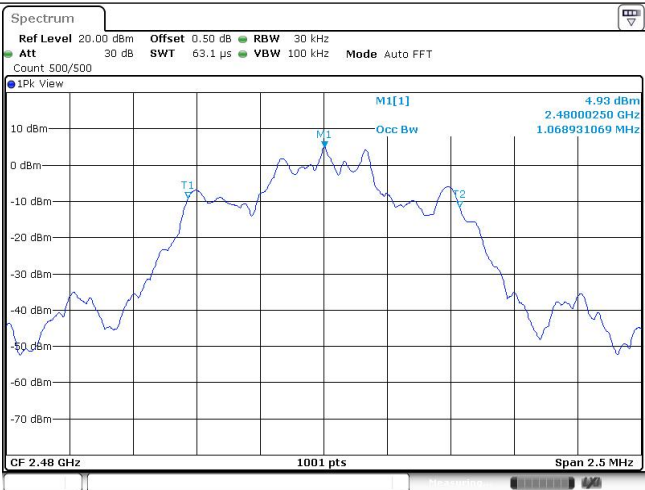
Date: 16 AUG 2024 16:52:57

CH39



Date: 16 AUG 2024 16:54:30

CH78



Date: 16 AUG 2024 16:55:54

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥515	Pass
π/4DQPSK	39	1.00	≥750	Pass
8DPSK	39	1.00	≥748	Pass

Note:

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

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

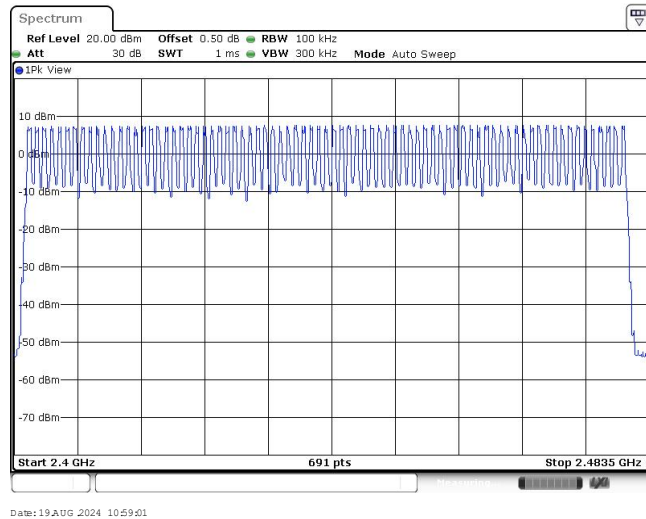
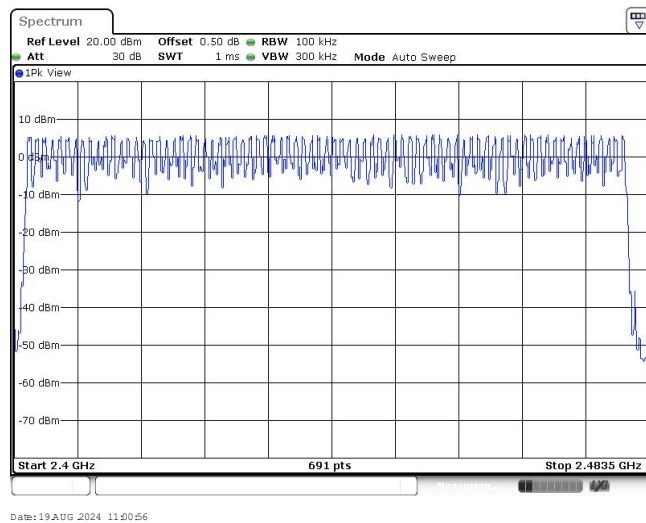
8DPSK limit = $\frac{2}{3}$ * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

GFSK	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View 7.68 dBm 2.44083913 GHz 0.04 dB 1.00436 MHz M1 D1[1] M1[1] 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 19 AUG 2024 10:48:46
π /4DQPSK	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View 4.65 dBm 2.44112609 GHz 0.04 dB 1.00000 MHz M1 D1[1] M1[1] D1 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 19 AUG 2024 10:52:27
8DPSK	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View 4.60 dBm 2.44100000 GHz 0.03 dB 1.00435 MHz M1 D1[1] M1[1] D1 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 19 AUG 2024 10:56:32

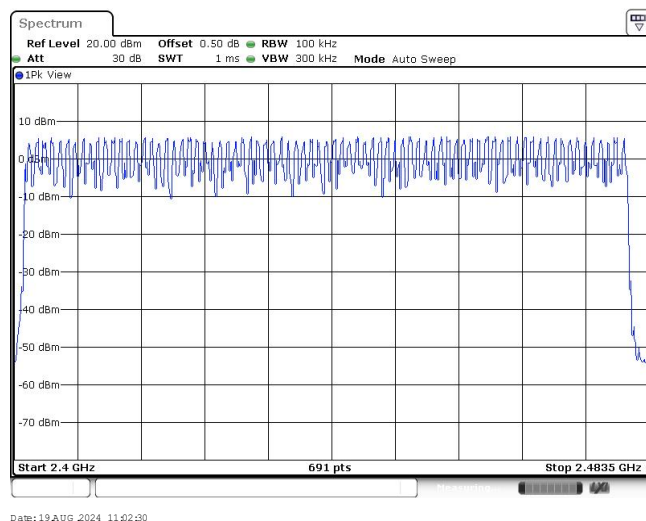
Appendix E: Hopping Channel Number

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

GFSK

 $\pi/4$ DQPSK

8DPSK



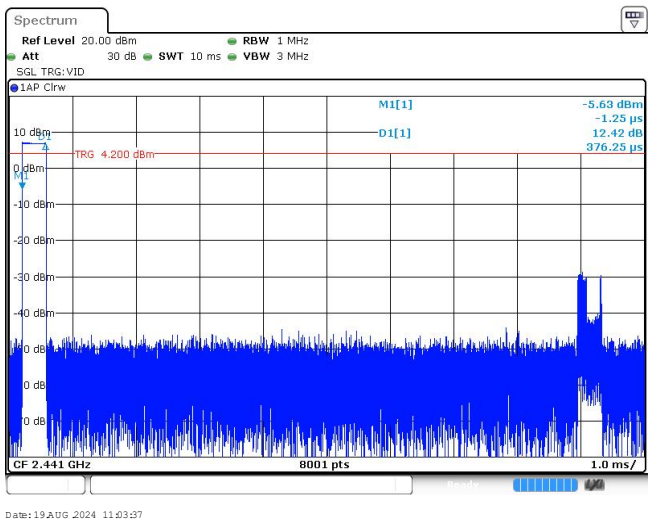
Appendix F: Dwell Time

Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	313.00	0.12	≤ 0.40	Pass
	DH3	1.63	160.00	0.26		
	DH5	2.88	103.00	0.30		
$\pi/4$ DQPSK	2DH1	0.38	313.00	0.12	≤ 0.40	Pass
	2DH3	1.64	158.00	0.26		
	2DH5	2.88	103.00	0.30		
8DPSK	3DH1	0.38	315.00	0.12	≤ 0.40	Pass
	3DH3	1.64	159.00	0.26		
	3DH5	2.89	106.00	0.31		

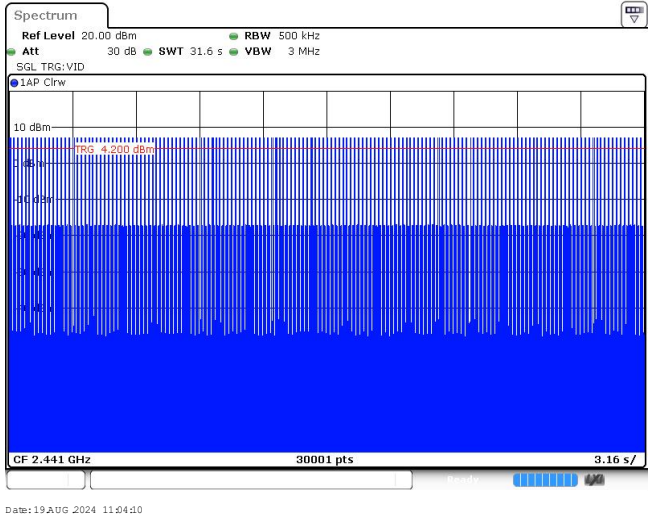
Modulation Type:

GFSK

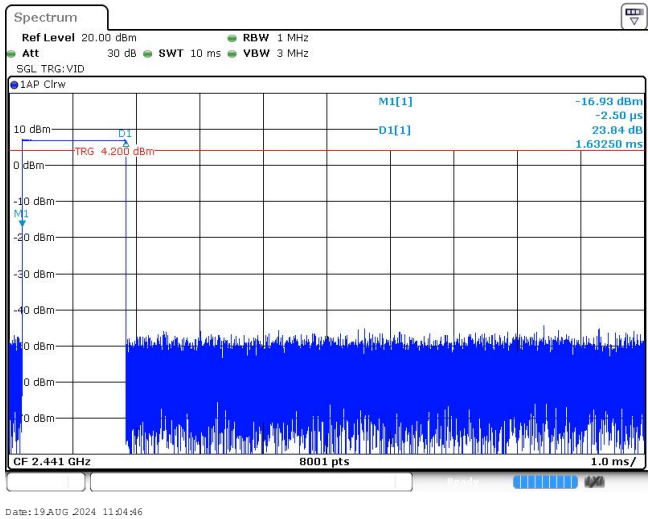
DH1
Burst width

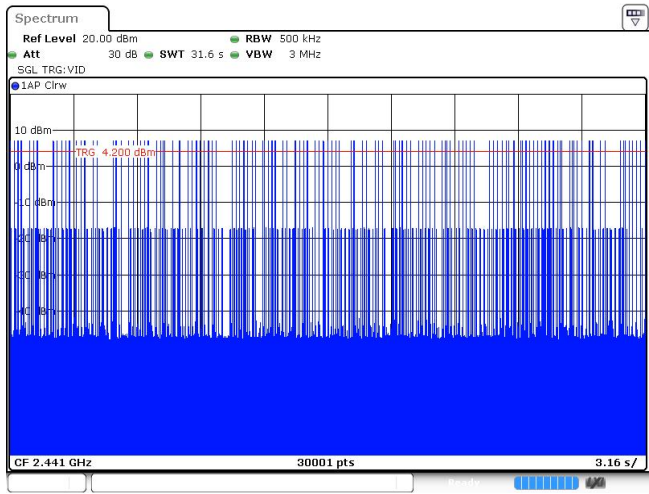
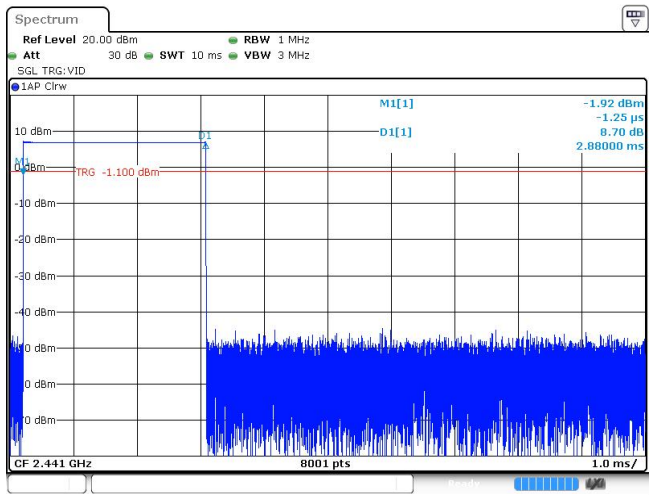
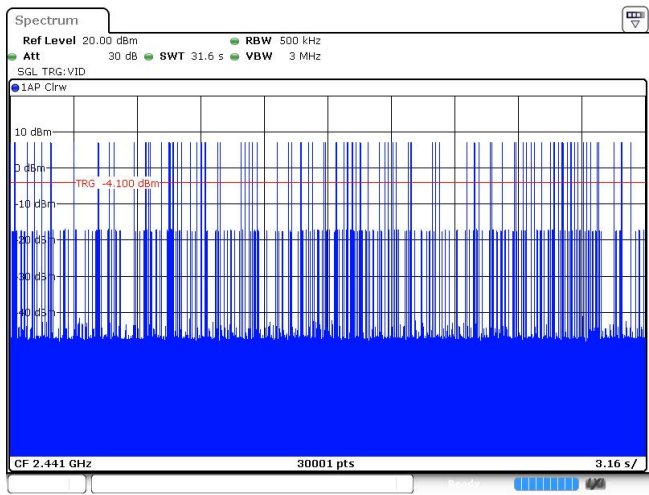


DH1
Burst number



DH3
Burst width

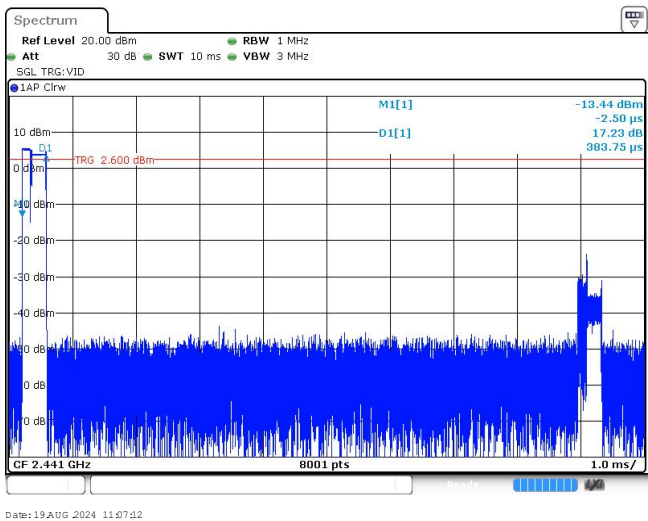


DH3 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts and a time scale of 3.16 s. The y-axis represents power in dBm, ranging from -40 to 10. A red trigger line is set at -4.200 dBm. The signal is identified as 1AP Clrw. The date is 19 AUG 2024 11:05:19.
DH5 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts and a time scale of 1.0 ms. The y-axis represents power in dBm, ranging from -40 to 10. A red trigger line is set at -1.100 dBm. The signal is identified as 1AP Clrw. The date is 19 AUG 2024 11:05:50.
DH5 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts and a time scale of 3.16 s. The y-axis represents power in dBm, ranging from -40 to 10. A red trigger line is set at -4.100 dBm. The signal is identified as 1AP Clrw. The date is 19 AUG 2024 11:06:24.

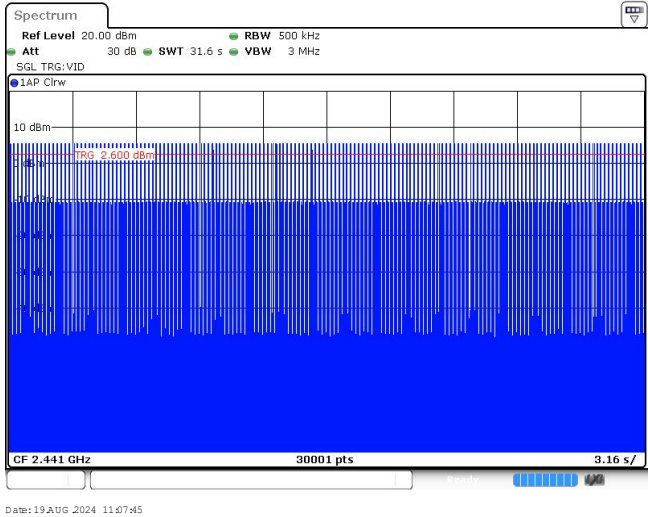
Modulation Type:

$\pi/4$ DQPSK

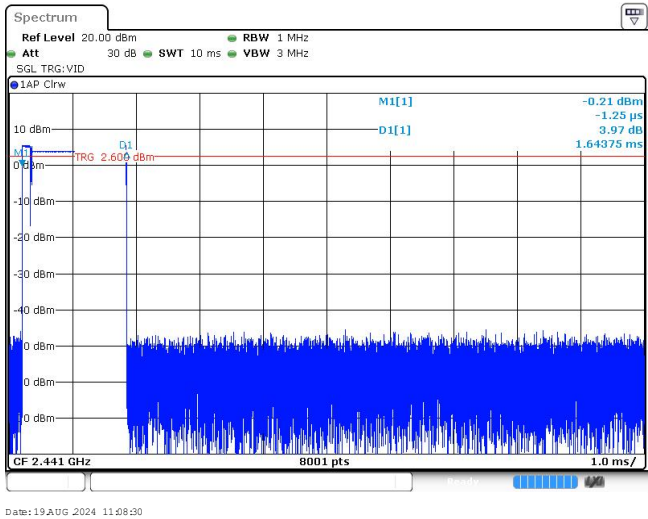
2DH1
Burst width

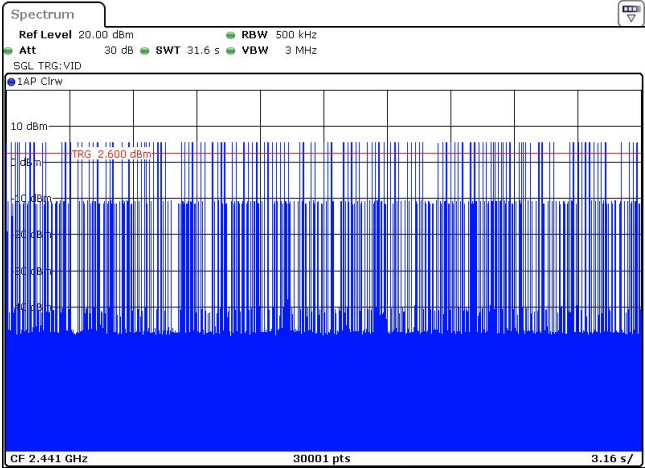
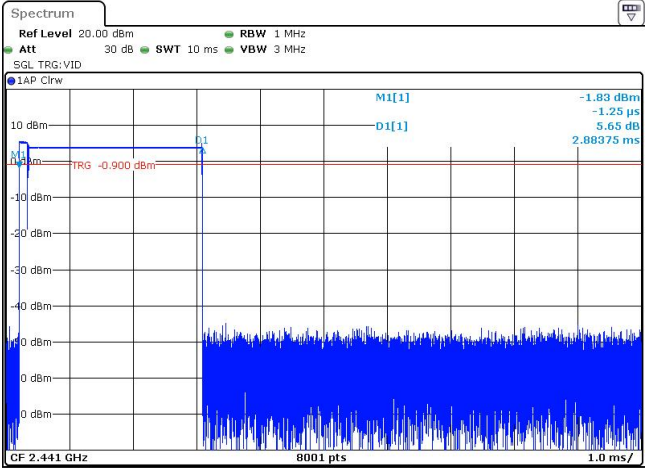
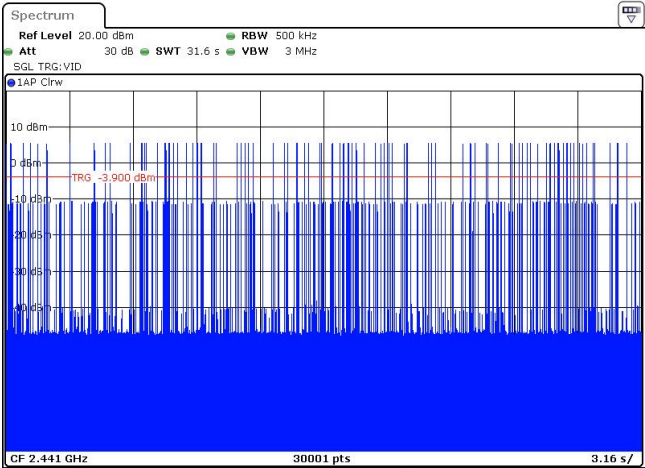


2DH1
Burst number



2DH3
Burst width

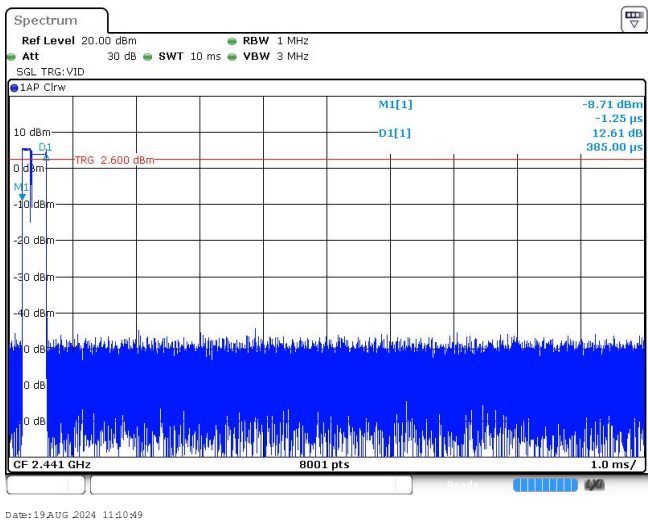


2DH3 Burst number	 The spectrum plot shows a dense burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a trigger level set at -2.600 dBm. The signal is identified as 1AP Clrw. The plot parameters are: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SGL TRG:VID, and VSW 3 MHz. The plot shows 30001 pts and a time scale of 3.16 s. Date: 19 AUG 2024 11:09:03
2DH5 Burst width	 The spectrum plot shows a burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a trigger level set at -0.900 dBm. The signal is identified as 1AP Clrw. The plot parameters are: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SGL TRG:VID, and VSW 3 MHz. The plot shows 8001 pts and a time scale of 1.0 ms. The plot also shows measurement data: M1[1] -1.89 dBm, D1[1] -1.25 μs, 5.65 dB, and 2.88375 ms. Date: 19 AUG 2024 11:09:38
2DH5 Burst number	 The spectrum plot shows a dense burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a trigger level set at -3.900 dBm. The signal is identified as 1AP Clrw. The plot parameters are: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SGL TRG:VID, and VSW 3 MHz. The plot shows 30001 pts and a time scale of 3.16 s. Date: 19 AUG 2024 11:00:12

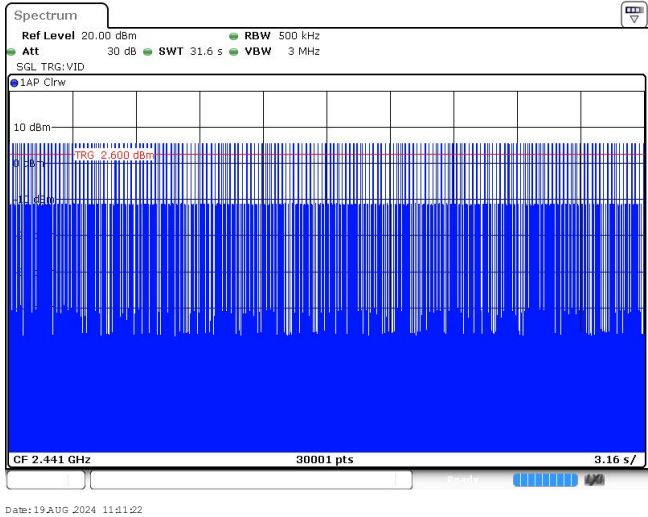
Modulation Type:

8DPSK

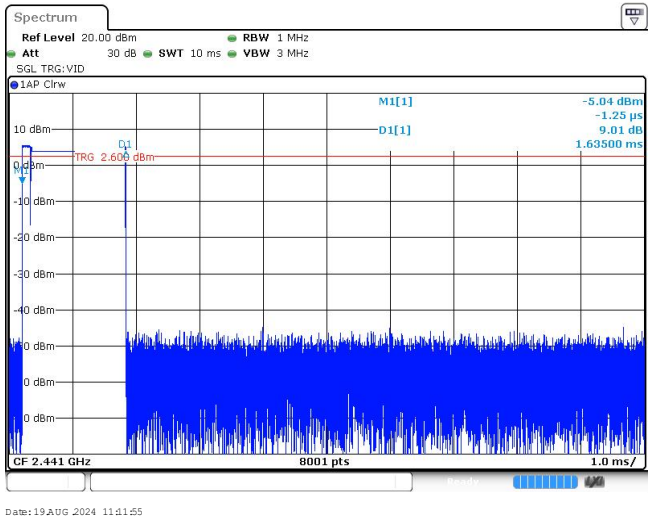
3DH1
Burst width

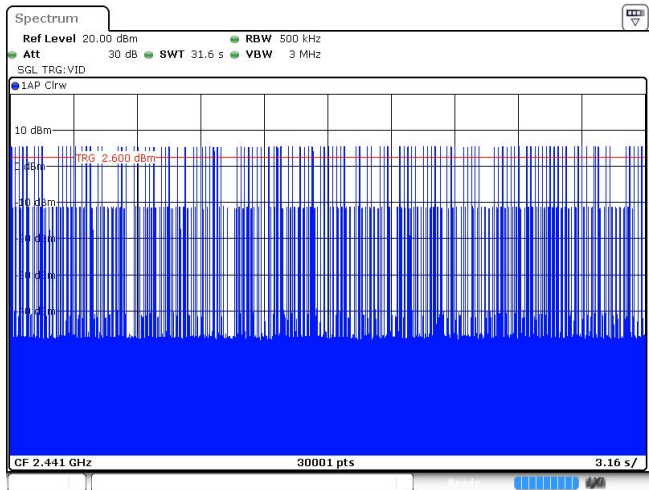
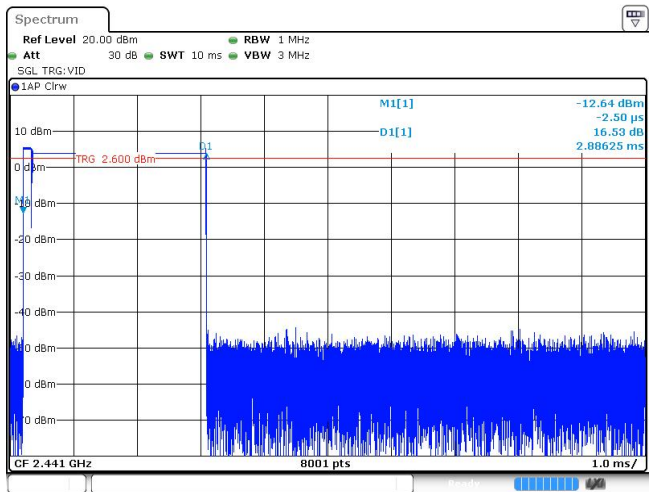
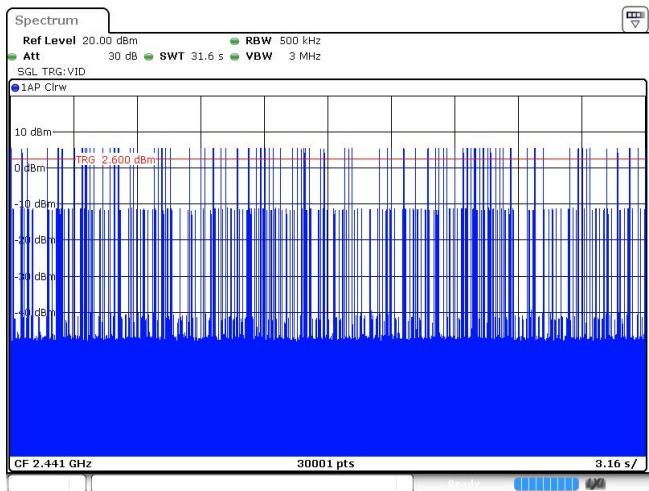


3DH1
Burst number



3DH3
Burst width

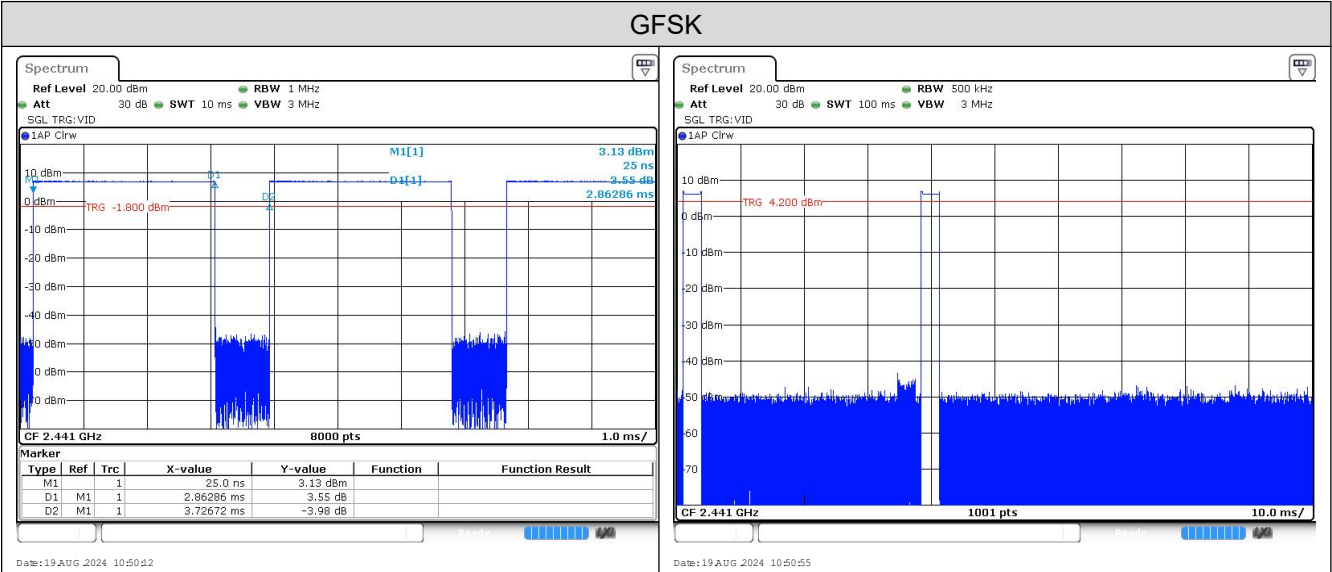


3DH3 Burst number	 The spectrum plot shows a dense burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 3 MHz. The signal level is around -12.64 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SGL TRG:VID, and 1AP Clrw. The date is 19 AUG 2024 11:22:28.
3DH5 Burst width	 The spectrum plot shows a burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 3 MHz. The signal level is around -12.64 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SGL TRG:VID, and 1AP Clrw. The date is 19 AUG 2024 11:13:03.
3DH5 Burst number	 The spectrum plot shows a dense burst of signal activity. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 3 MHz. The signal level is around -12.64 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SGL TRG:VID, and 1AP Clrw. The date is 19 AUG 2024 11:13:36.

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

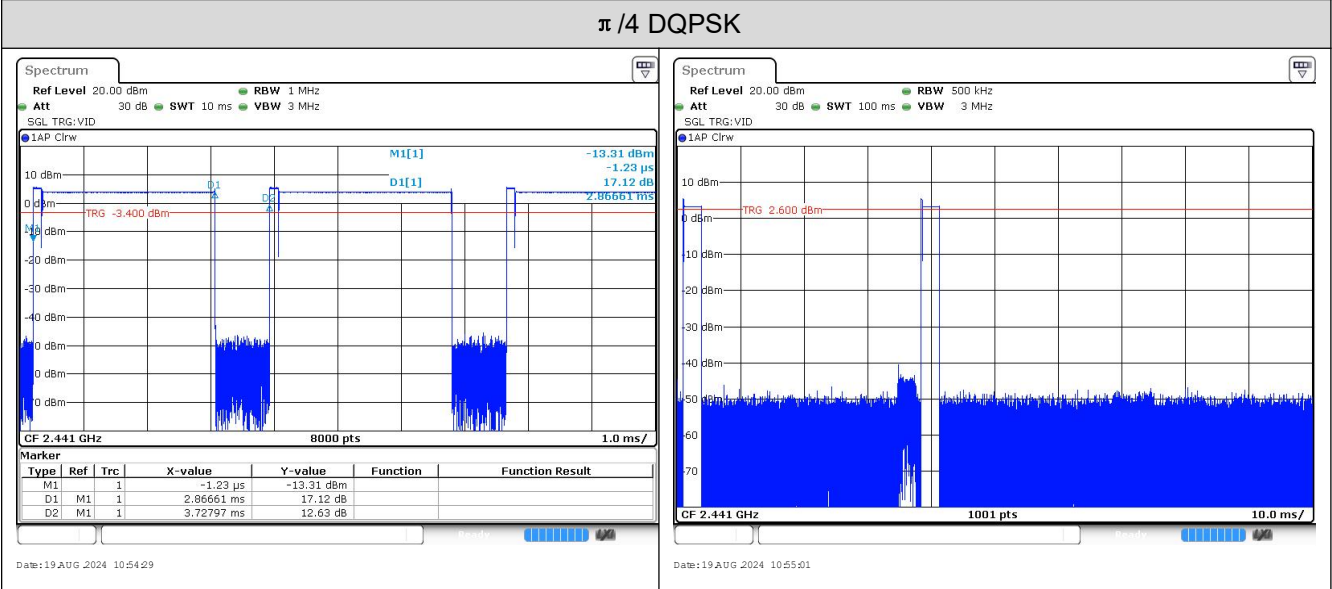
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	2.00	-30.87
$\pi/4$ DQPSK	2441	2.87	100	2.00	-30.84
8DPSK	2441	2.87	100	2.00	-30.84



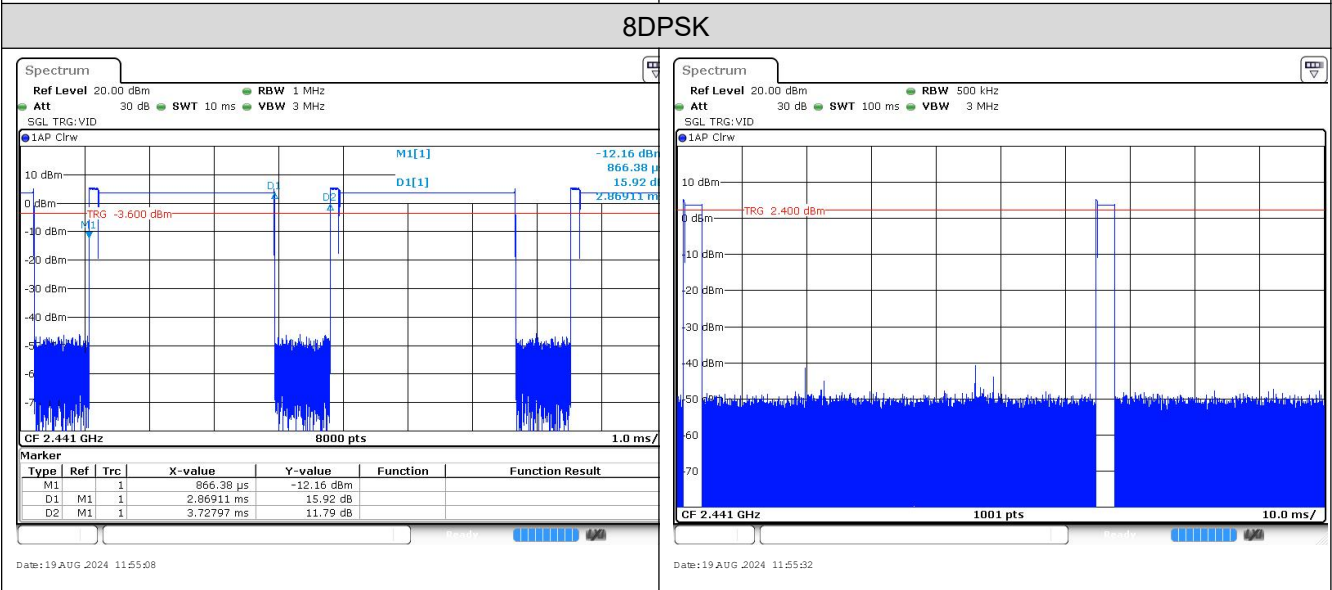
Ton time for single burst

Burst Quantity



Ton time for single burst

Burst Quantity



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	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 0.50 dB SWT 1.1 ms VBW 300 kHz RBW 100 kHz Mode Auto Sweep 1Pk Max M1[1] 7.23 dBm 2.401910 GHz M2[1] -49.97 dBm 2.400000 GHz D1 -12.770 dBm M3 -55.10 dBm 2.39 GHz M4 -54.43 dBm 2.31 GHz M5 -52.10 dBm 2.399768 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40191 GHz</td><td>7.23 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-49.97 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.10 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.43 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399768 GHz</td><td>-52.10 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:42:22	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40191 GHz	7.23 dBm			M2	1		2.4 GHz	-49.97 dBm			M3	1		2.39 GHz	-55.10 dBm			M4	1		2.31 GHz	-54.43 dBm			M5	1		2.399768 GHz	-52.10 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40191 GHz	7.23 dBm																																								
M2	1		2.4 GHz	-49.97 dBm																																								
M3	1		2.39 GHz	-55.10 dBm																																								
M4	1		2.31 GHz	-54.43 dBm																																								
M5	1		2.399768 GHz	-52.10 dBm																																								
CH00 Hopping mode	Spectrum Ref Level 20.00 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 1.1 ms VBW 300 kHz RBW 100 kHz Mode Auto Sweep 1Pk Max M1[1] 7.15 dBm 2.403830 GHz M2[1] -52.95 dBm 2.400000 GHz D1 -12.850 dBm M3 -55.05 dBm 2.39 GHz M4 -54.52 dBm 2.31 GHz M5 -52.33 dBm 2.312203 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40383 GHz</td><td>7.15 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-52.95 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.05 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.52 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.312203 GHz</td><td>-52.33 dBm</td><td></td><td></td></tr></table> Date: 19 AUG 2024 10:59:14	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40383 GHz	7.15 dBm			M2	1		2.4 GHz	-52.95 dBm			M3	1		2.39 GHz	-55.05 dBm			M4	1		2.31 GHz	-54.52 dBm			M5	1		2.312203 GHz	-52.33 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40383 GHz	7.15 dBm																																								
M2	1		2.4 GHz	-52.95 dBm																																								
M3	1		2.39 GHz	-55.05 dBm																																								
M4	1		2.31 GHz	-54.52 dBm																																								
M5	1		2.312203 GHz	-52.33 dBm																																								
CH78 No hopping mode	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 0.50 dB SWT 56.9 μs VBW 300 kHz RBW 100 kHz Mode Auto FFT 1Pk Max M1[1] 8.08 dBm 2.4798310 GHz M2[1] -58.46 dBm 2.4835000 GHz D1 -11.920 dBm M3 -59.97 dBm 2.5 GHz M4 -56.17 dBm 2.4836754 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz 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>2.479831 GHz</td><td>8.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.46 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.97 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4836754 GHz</td><td>-56.17 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:46:20	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479831 GHz	8.08 dBm			M2	1		2.4835 GHz	-58.46 dBm			M3	1		2.5 GHz	-59.97 dBm			M4	1		2.4836754 GHz	-56.17 dBm										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.479831 GHz	8.08 dBm																																								
M2	1		2.4835 GHz	-58.46 dBm																																								
M3	1		2.5 GHz	-59.97 dBm																																								
M4	1		2.4836754 GHz	-56.17 dBm																																								

Spectrum

Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz
Att 30 dB SWT 56.9 μ s VBW 300 kHz Mode Auto FFT

Count 500/500

1Pk Max

7.77 dBm
2.4788440 GHz
-58.70 dBm
2.4835000 GHz

M1[1]
M2[1]

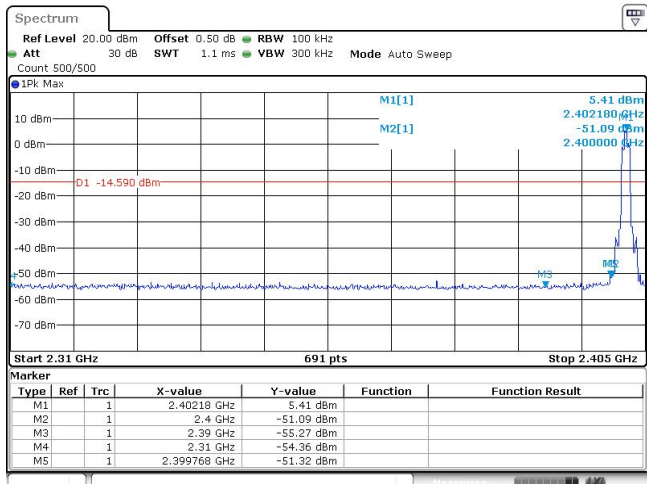
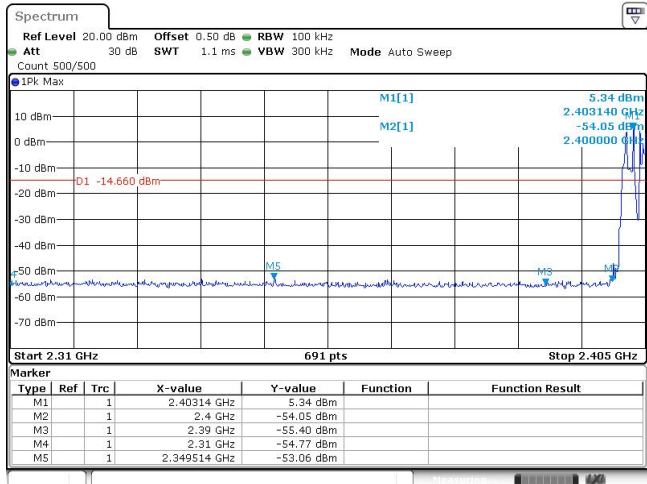
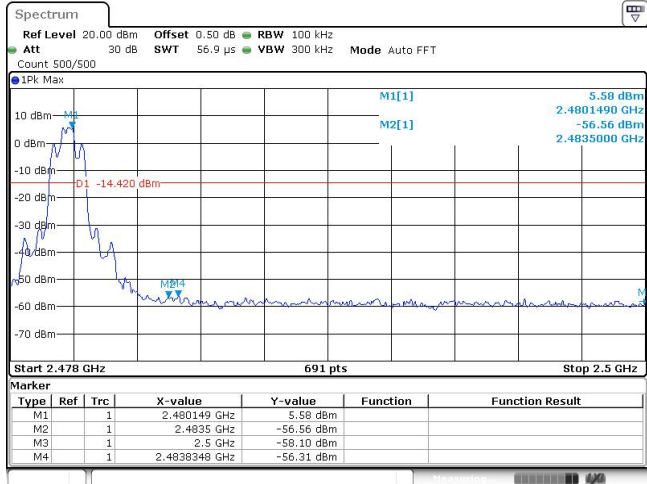
-12.230 dBm

M2 M4

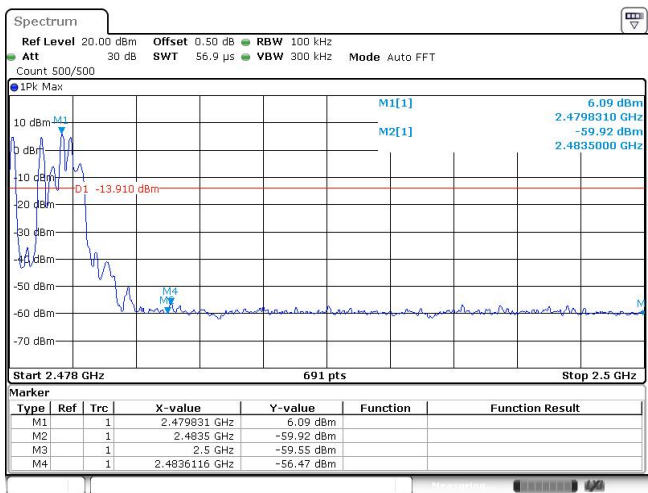
Start 2.478 GHz 691 pts Stop 2.5 GHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.478844 GHz	7.77 dBm		
M2	1	1	2.4835 GHz	-58.70 dBm		
M3	1	1	2.5 GHz	-60.01 dBm		
M4	1	1	2.4967478 GHz	-57.43 dBm		

Date: 19 AUG 2024 10:59:28

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																									
CH00 No hopping mode	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40218 GHz</td><td>5.41 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.09 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.27 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.36 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399768 GHz</td><td>-51.32 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:48:28	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	5.41 dBm			M2	1		2.4 GHz	-51.09 dBm			M3	1		2.39 GHz	-55.27 dBm			M4	1		2.31 GHz	-54.36 dBm			M5	1		2.399768 GHz	-51.32 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40218 GHz	5.41 dBm																																								
M2	1		2.4 GHz	-51.09 dBm																																								
M3	1		2.39 GHz	-55.27 dBm																																								
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CH00 Hopping mode	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40314 GHz</td><td>5.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-54.05 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.40 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.77 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.349514 GHz</td><td>-53.06 dBm</td><td></td><td></td></tr></table> Date: 19 AUG 2024 11:01:09	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40314 GHz	5.34 dBm			M2	1		2.4 GHz	-54.05 dBm			M3	1		2.39 GHz	-55.40 dBm			M4	1		2.31 GHz	-54.77 dBm			M5	1		2.349514 GHz	-53.06 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40314 GHz	5.34 dBm																																								
M2	1		2.4 GHz	-54.05 dBm																																								
M3	1		2.39 GHz	-55.40 dBm																																								
M4	1		2.31 GHz	-54.77 dBm																																								
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CH78 No hopping mode	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz 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>2.480149 GHz</td><td>5.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.56 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-58.10 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4838348 GHz</td><td>-56.31 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:51:20	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480149 GHz	5.58 dBm			M2	1		2.4835 GHz	-56.56 dBm			M3	1		2.5 GHz	-58.10 dBm			M4	1		2.4838348 GHz	-56.31 dBm										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
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M4	1		2.4838348 GHz	-56.31 dBm																																								

CH78
Hopping mode



Date: 19 AUG 2024 11:01:22

Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 5.59 dBm 2.402180 GHz -53.29 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40218 GHz</td><td>5.59 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.29 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.73 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-55.44 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39963 GHz</td><td>-53.12 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:53:18			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	5.59 dBm			M2	1		2.4 GHz	-53.29 dBm			M3	1		2.39 GHz	-55.73 dBm			M4	1		2.31 GHz	-55.44 dBm			M5	1		2.39963 GHz	-53.12 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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M3	1		2.39 GHz	-55.73 dBm																																									
M4	1		2.31 GHz	-55.44 dBm																																									
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CH00 Hopping mode	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 4.05 dBm 2.404930 GHz -54.17 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz 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>2.40493 GHz</td><td>4.05 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-54.17 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.31 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-55.39 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.314681 GHz</td><td>-52.92 dBm</td><td></td><td></td></tr></table> Date: 19 AUG 2024 11:02:43			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40493 GHz	4.05 dBm			M2	1		2.4 GHz	-54.17 dBm			M3	1		2.39 GHz	-55.31 dBm			M4	1		2.31 GHz	-55.39 dBm			M5	1		2.314681 GHz	-52.92 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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CH78 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 6.43 dBm 2.4801490 GHz -59.11 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz 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>2.480149 GHz</td><td>6.43 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.11 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.70 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4984696 GHz</td><td>-56.72 dBm</td><td></td><td></td></tr></table> Date: 16 AUG 2024 16:56:15			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480149 GHz	6.43 dBm			M2	1		2.4835 GHz	-59.11 dBm			M3	1		2.5 GHz	-59.70 dBm			M4	1		2.4984696 GHz	-56.72 dBm									
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M2	1		2.4835 GHz	-59.11 dBm																																									
M3	1		2.5 GHz	-59.70 dBm																																									
M4	1		2.4984696 GHz	-56.72 dBm																																									

CH78
Hoppig mode

