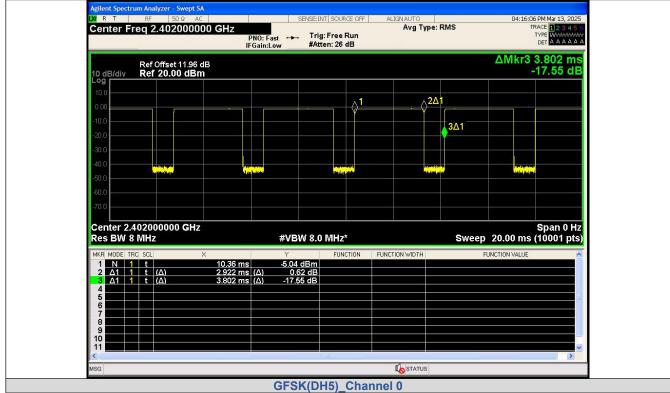


## APPENDIX VI. Duty Cycle

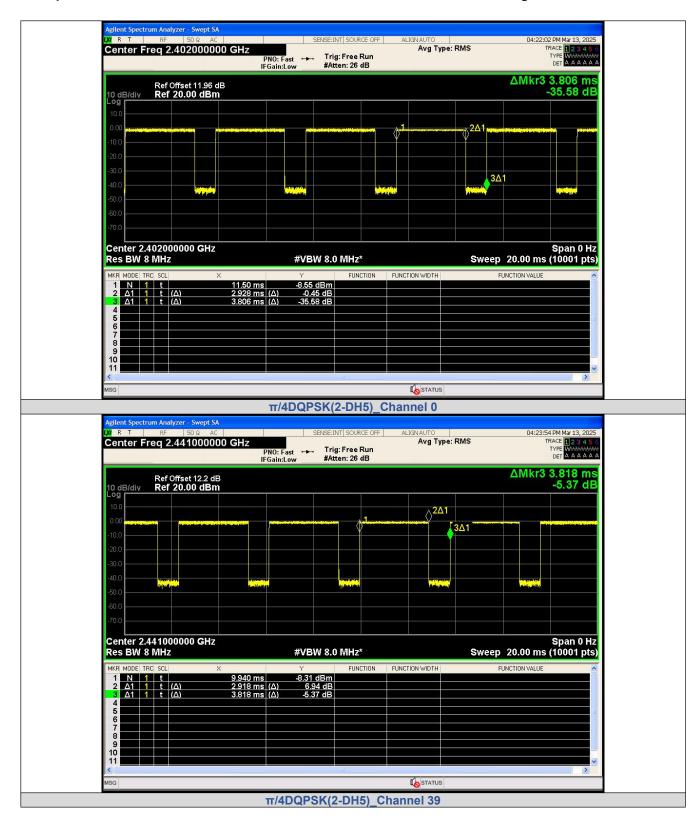
Test Result									

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK		0	2.922	3.802	76.85	0.7685	1.1436
	DH5	39	2.920	3.818	76.48	0.7648	1.1645
		78	2.928	3.808	76.89	0.7689	1.1413
π/4DQPSK		0	2.928	3.806	76.93	0.7693	1.139
	2-DH5	39	2.918	3.818	76.43	0.7643	1.1674
		78	2.926	3.806	76.88	0.7688	1.1419
8DPSK	3-DH5	0	2.926	3.806	76.88	0.7688	1.1419
		39	2.918	3.818	76.43	0.7643	1.1674
		78	2.918	3.816	76.47	0.7647	1.1651

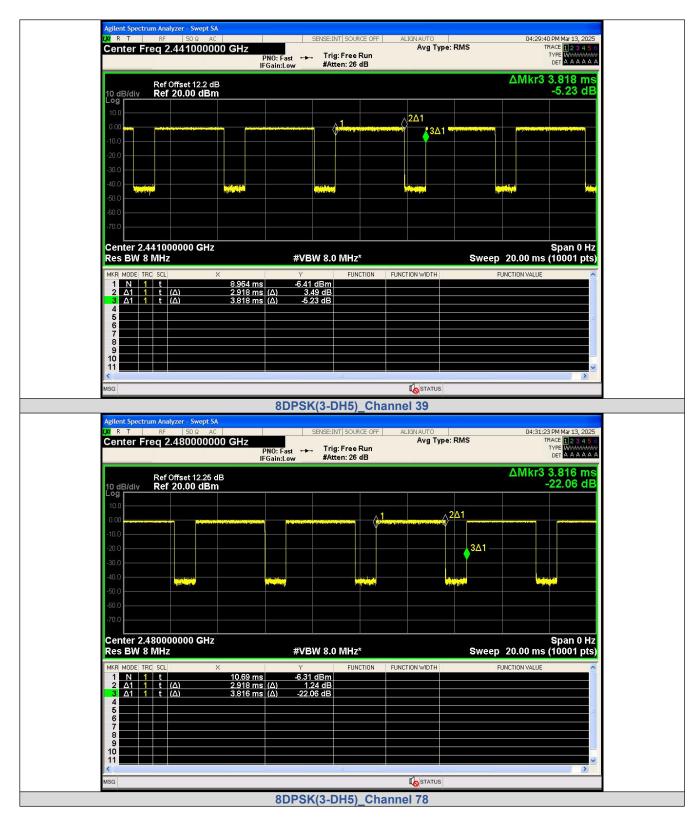
## Test Graphs



202 R T RF 50 Ω AC Center Freq 2.44100000		SENSE:INT SOURCE OFF	ALIGNAUTO Avg Type: RMS	04:18:39 PM Mar 13, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET A A A A A
Ref Offset 12.2 dl 10 dB/div Ref 20.00 dBn	B			ΔMkr3 3.818 ms -23.22 dE
Log 10.0		1		
-10.0			<u>2∆1</u>	
-20.0			∳3∆1	
-40.0		a di se bila		
-50.0				
-70.0				
Center 2.441000000 GHz Res BW 8 MHz		/BW 8.0 MHz*	Swe	Span 0 H: ep 20.00 ms (10001 pts
MKR MODE TRC SCL 1 N 1 t 2 Δ1 1 t (Δ)	× 9.228 ms -3 2.920 ms (Δ)	.78 dBm -5.53 dB	FUNCTION WIDTH	FUNCTION VALUE
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.818 ms (∆) -2	23.22 dB		
6 7 8				
9 10 11				
MSG			STATUS	× •
<	GF	SK(DH5)_Chanr	to status	<u>×</u>
Agilent Spectrum Analyzer - Swept S/	A	SK(DH5)_Chanr	ALIGNAUTO	04:20:21 PM Mar 13, 202
Agilent Spectrum Analyzer - Swept Sy	A	SENSE:INT SOURCE OFF	nel 39	04:20:21 PM Mar 13, 202 TRACE [] 3 3 4 5 TYPE WWWWW DET & A & A & A
Agilent Spectrum Analyzer - Swept S/	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF	ALIGNAUTO	04:20:21 PM Mar 13, 202 TRACE 10 24 4
Agilent Spectrum Analyzer - Swept So Od R T RF 50 Ω Ac Center Freq 2.4800000 Ref Offset 12.25 σ	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE [] 3 3 4 5 TYPE WWWWW DET & A & A & A ∆Mkr3 3.808 ms
Agilent Spectrum Analyzer - Swept S/ MSG M R T RF 50Ω AC Center Freq 2.48000000 Ref Offset 12.25 of 10 dB/div Ref 20.00 dBn	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF	ALIGNAUTO	04:20:21 PM Mar 13, 202 TRACE [] 3 3 4 5 TYPE WWWWW DET & A & A & A ∆Mkr3 3.808 ms
Agilent Spectrum Analyzer - Swept S 20 R T   RF   50 Ω AC Center Freq 2.48000000 Ref Offset 12.25 c 10 dB/div Ref 20.00 dBn 10.0 -10.0 -20.0	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF  Trig: Free Run #Atten: 26 dB	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE [] 3 3 4 5 TYPE WWWWW DET & A & A & A ∆Mkr3 3.808 ms
Agilent Spectrum Analyzer - Swept Sy MSG Δ0 R T RF 50 Ω AC Center Freq 2.48000000 Ref Offset 12.25 c 10 dB/div Ref 20.00 dBn 10 0 -10 0	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TYPE WWWWW DET & A A A A AMkr3 3.808 ms -26.27 dE
Agilent Spectrum Analyzer - Swept S/ MSG MG R T RF 50 Ω AC Center Freq 2.48000000 Ref Offset 12.25 of 0 dB/div Ref 20.00 dBn -0 0 -10.0 -20.0 -40.0	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF  Trig: Free Run #Atten: 26 dB	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE [] 3 3 4 5 TYPE WWWWW DET & A & A & A ∆Mkr3 3.808 ms
Agilent Spectrum Analyzer - Swept S/ MSG Agilent Spectrum Analyzer - Swept S/ Center Freq 2.48000000 Ref Offset 12.25 c 10 dB/div Ref 20.00 dBn 10.0 -10.0 -20.0 -30.0 -40.0 -40.0	A OO GHz PNO: Fast IFGain:Low dB	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TVPE WWWWW DET & A A A AMkr3 3.808 ms -26.27 dE
Agilent Spectrum Analyzer - Swept S/ MSG Agilent Spectrum Analyzer - Swept S/ Center Freq 2.48000000 Ref Offset 12.25 d Ref Offset 12.25 d Ref 20.00 dBn -0.00 -0.	A OO GHz PNO: Fast IFGain:Low dB n	SENSE:INT SOURCE OFF	ALIGNAUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TYPE WWWWW DET & A & A & A AMkr3 3.808 ms -26.27 dE
Agilent Spectrum Analyzer - Swept S/       MsG       MsG       Qi R T     RF     S0 Ω     Ac       Center Freq 2.48000000       Io dB/div     Ref Offset 12.25 c       Io dB/div     Ref 20.00 dBn       -0.0     -0.0       -10.0     -0.0       -20.0     -0.0       -30.0     -0.0       -40.0     -0.0       -20.0     -0.0       -30.0     -0.0       -20.0     -0.0       -30.0     -0.0       -40.0     -0.0       -20.0     -0.0       -30.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0     -0.0       -20.0	A OO GHz PNO: Fast IFGain:Low dB n IFGain:Low # Y X	SENSE:INT SOURCE OFF	ALIGNAUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE [] 23 4 5 TPC [] 24 4 A A DET A A A A AMkr3 3.808 ma -26.27 dE
Agilent Spectrum Analyzer - Swept S/       MsG       MsG       Qi R T     RF     50 Ω     AG       Center Freq 2.48000000       Io dB/div     Ref Offset 12.25 c       Io dB/div     Ref 20.00 dBn       Io 0     Io 0     Io 0       Io 0     Io 0     Io 0     Io 0     Io 0       Io 0     Io 0     Io 0     Io 0     Io 0     Io 0       Io 0     Io 0     Io 0     Io 0     Io 0     Io 0     Io 0     Io 0       Io 0 <thio 0<="" th="">     Io 0     Io 0<!--</td--><td>A 00 GHz PN0: Fast IFGain:Low dB n ## 9.740 ms 2.928 ms (Δ)</td><td>SENSE:INT SOURCE OFF</td><td>ALIGN AUTO Avg Type: RMS</td><td>04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TRACE 2 3</td></thio>	A 00 GHz PN0: Fast IFGain:Low dB n ## 9.740 ms 2.928 ms (Δ)	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TRACE 2 3
Agilent Spectrum Analyzer - Swept So       Agilent Spectrum Analyzer - Swept So       OX     R     T     RF     50 Ω     Aci       Center Freq 2.4800000     Ref Offset 12.25 G     Co     C	A 00 GHz PN0: Fast IFGain:Low dB n ## 9.740 ms 2.928 ms (Δ)	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TRACE 2 3
Agilent Spectrum Analyzer - Swept S/       MsG       Agilent Spectrum Analyzer - Swept S/       R T     RF     50 Ω     Ac       Center Freq 2.4800000     Ref Offset 12.26 d     Ac     Ac       10 dB/div     Ref 20.00 dBn     Ac     Ac     Ac       10 dB/div     Ref 20.00 dBn     Ac     Ac     Ac       -0 dB/div     -0 dBn     -0 dBn     -0 dBn     -0 dBn       -0 dB/div     -0 dBn     -0 dBn     -0 dBn     -0 dBn       -0 dB     -0 dBn     -0 dBn     -0 dBn     -0 dBn       -0 dB     -0 dBn     -0 dBn     -0 dBn	A 00 GHz PN0: Fast IFGain:Low dB n ## 9.740 ms 2.928 ms (Δ)	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TRACE 2 3
R     T     R     Signed       Agilent Spectrum Analyzer     Swept SX       X     R     T     R       Agilent Spectrum Analyzer     Sog Action       Center Freq 2.48000000       R     Ref Offset 12.26 of       10     B       00     Ref 20.00 dBn       100     B       000     B       -300     B       -40.0     B       -30.0     B       -40.0     B       -30.0     B       -40.0     B       -30.0     B       -30.0     B       -30.0     B       -40.0     B       -70.0     B       -70.0     B       -70.0     B       -70.0     B	A 00 GHz PN0: Fast IFGain:Low dB n ## 9.740 ms 2.928 ms (Δ)	SENSE:INT SOURCE OFF	ALIGN AUTO Avg Type: RMS	04:20:21 PM Mar 13, 202 TRACE 2 3 4 5 TRACE 2 3



PNO: Fast IFGain:Low #Atten: 26 dB DET Ref Offset 12.25 dB AMkr3 3.2	Mar 13, 2025
	806 ms .66 dB
10 dB/div Ref 20.00 dBm -12	
-10.0 <b>3∆1</b>	
-30.0	
-50.0	
-60.0	
Center 2.48000000 GHz Sp	oan 0 Hz
Res BW 8 MHz     #VBW 8.0 MHz*     Sweep 20.00 ms (10       MKRI MODE[TRC] SCL     X     Y     FUNCTION FUNCTION VIDTH     FUNCTION VALUE	001 pts)
ΜKR MODE     TRC     Sci.     X     Y     FUNCTION     FUNCTION VIDTH     FUNCTION VALUE       1     N     1     t     9.332 ms     -4.91 dBm     -4.	
3     Δ1     1     t     (Δ)     3.806 ms     (Δ)     -12.66 dB       4     -      -     -     -	
5 6 7	
	~
MSG Los STATUS	
π/4DQPSK(2-DH5)_Channel 78	
Agilent Spectrum Analyzer - Swept SA       DW_R_TRF50_Q_AC	Mar 13, 2025
PNO: Fast ++ Trig: Free Run	123456 WWWWWWW AAAAAA
Ref Offset 11 96 dB AMkr3 3.8	806 ms
	.58 dB
-40.0 Specify Sector Se	
-50.0	
-50.0	
-50.0	oan 0 Hz 001 pts)
Store     Store     Store     Store       60.0	oan 0 Hz 001 pts)
Solution     Market     Mark	oan 0 Hz 001 pts)
S0.0     Provide     Provide     Provide       60.0	oan 0 Hz 001 pts)
50.0     Frank     Frank     Frank     Frank     Frank       60.0     -	oan 0 Hz 001 pts)
600     Image: Market in the second of the second	pan 0 Hz 001 pts)
30.0 1 4 1 4 1   60.0 - - - - - -   70.0 - - - - - -   Center 2.402000000 GHz Res BW 8 MHz #VBW 8.0 MHz* Speep 20.00 ms (10   MKR MODE TRC SCL X Y FUNCTION FUNCTION width FUNCTION VALUE   1 N 1 t 9.114 ms 9.855 dBm - -   2 A1 1 t (Δ) 2.926 ms (Δ) -6.58 dB -   3 A1 1 t (Δ) -6.58 dB - -   4 - - - - - -   7 - - - - - -   9 - - - - - -	pan 0 Hz 001 pts)



## APPENDIX VII. Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1		0.3828	310	118.67		PASS
	DH3		1.656	155	256.68	< 400	PASS
	DH5		2.912	103	299.94		PASS
π/4DQPSK	2-DH1	CH39 (2441MHz)	0.3696	311	114.95		PASS
	2-DH3		1.656	155	256.68		PASS
	2-DH5		2.400	103	247.2		PASS
8DPSK	3-DH1		0.3744	310	116.06		PASS
	3-DH3		1.656	155	256.68		PASS
	3-DH5		2.928	104	304.51		PASS

## **Test Graphs**

