

Appendix A

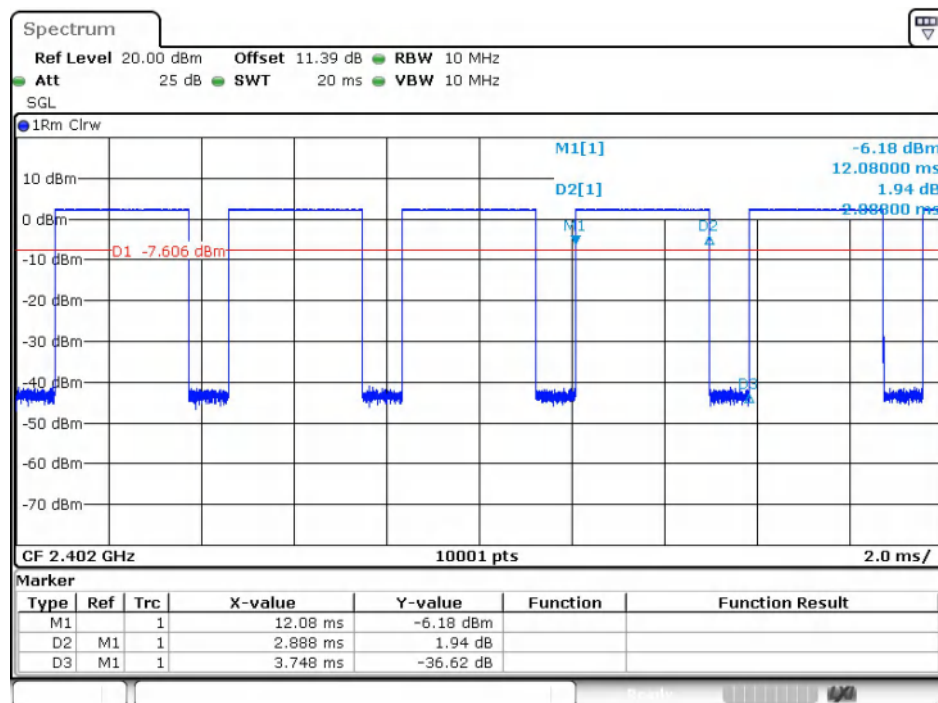
Report No.:	CISRR240816109
FCC ID:	2BKFG-TY1205
Product Name:	Wireless Headset
Model No.:	BC206
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

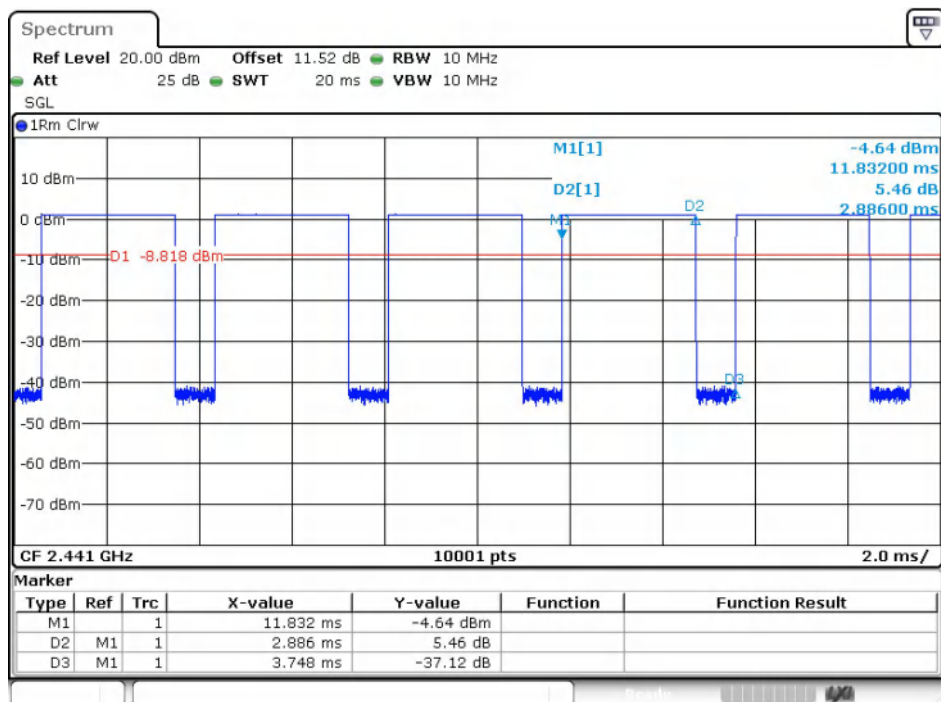
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.888	3.748	77.05	0.7705	1.1323	0.35
		39	2.886	3.748	77.00	0.7700	1.1351	0.35
		78	2.886	3.748	77.00	0.7700	1.1351	0.35
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289	0.35
		39	2.890	3.748	77.11	0.7711	1.1289	0.35
		78	2.892	3.748	77.16	0.7716	1.1261	0.35

Test Graphs



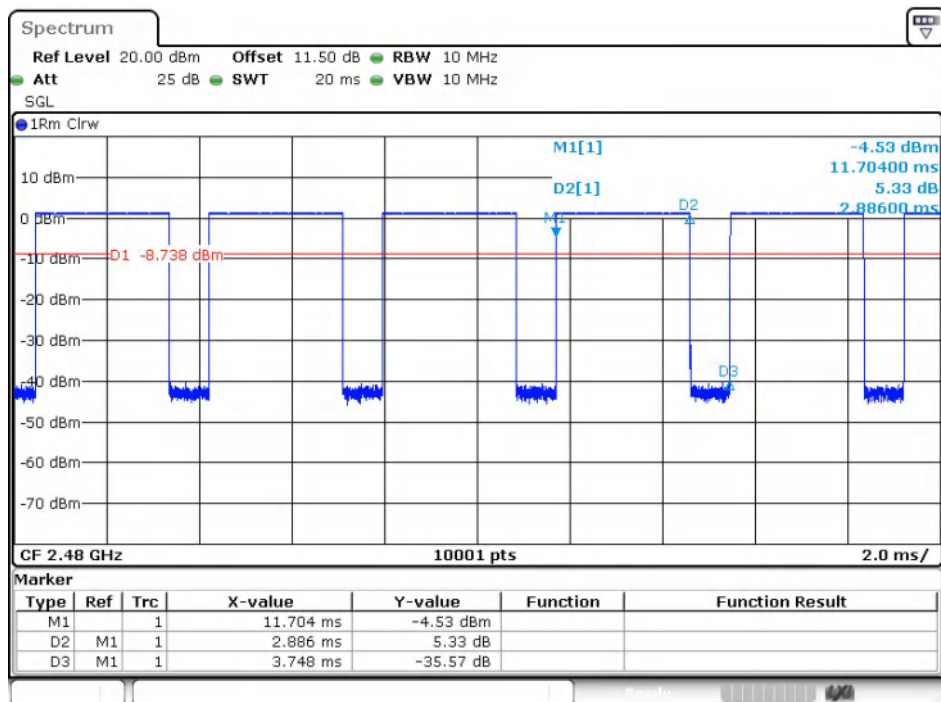
Date: 19.AUG.2024 10:33:47

GFSK(DH5)_Channel 0



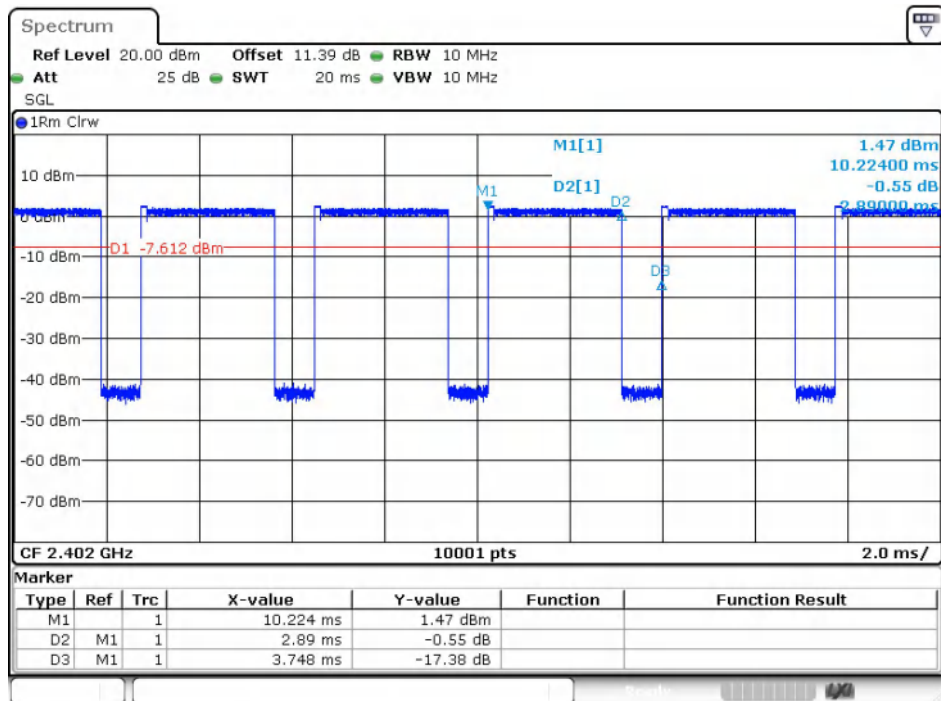
Date: 19.AUG.2024 10:39:42

GFSK(DH5)_Channel 39



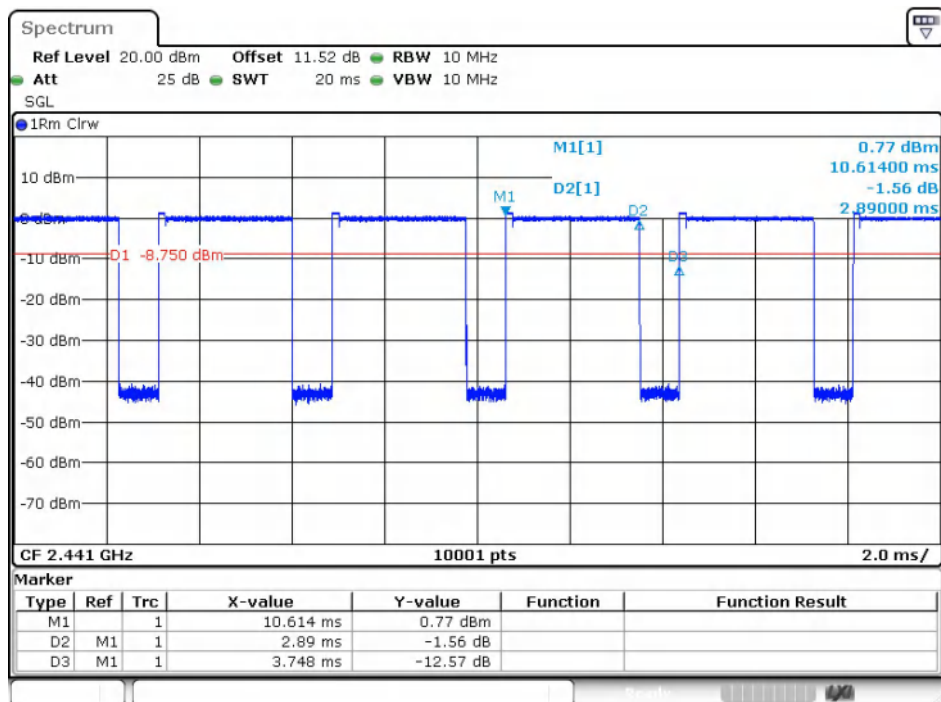
Date: 19.AUG.2024 10:41:55

GFSK(DH5)_Channel 78



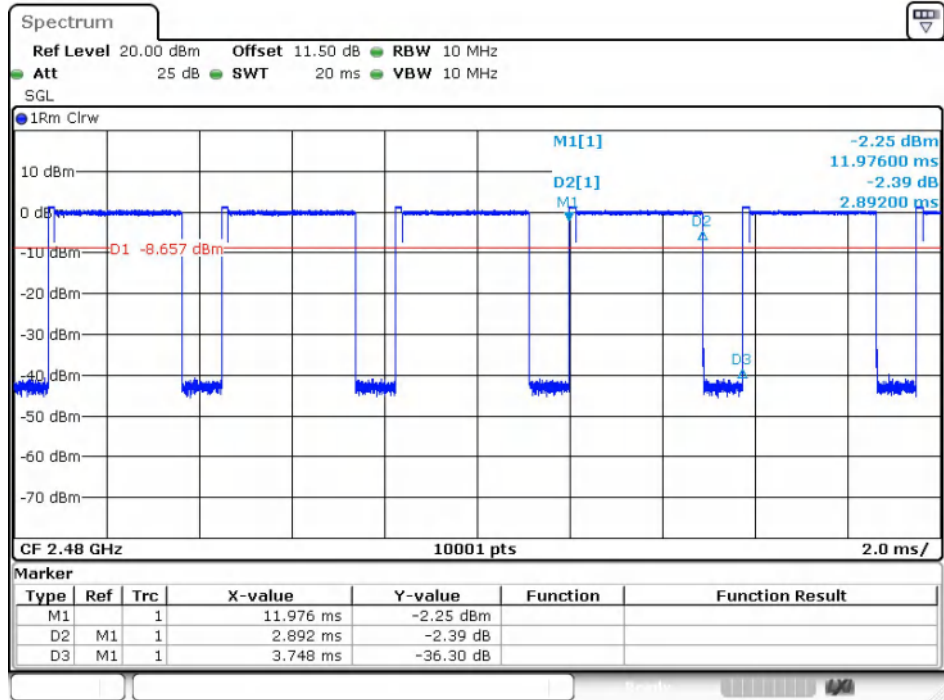
Date: 19.AUG.2024 10:45:56

$\pi/4$ DQPSK(2-DH5)_Channel 0



Date: 19.AUG.2024 10:52:44

$\pi/4$ DQPSK(2-DH5)_Channel 39



Date: 19.AUG.2024 10:55:52

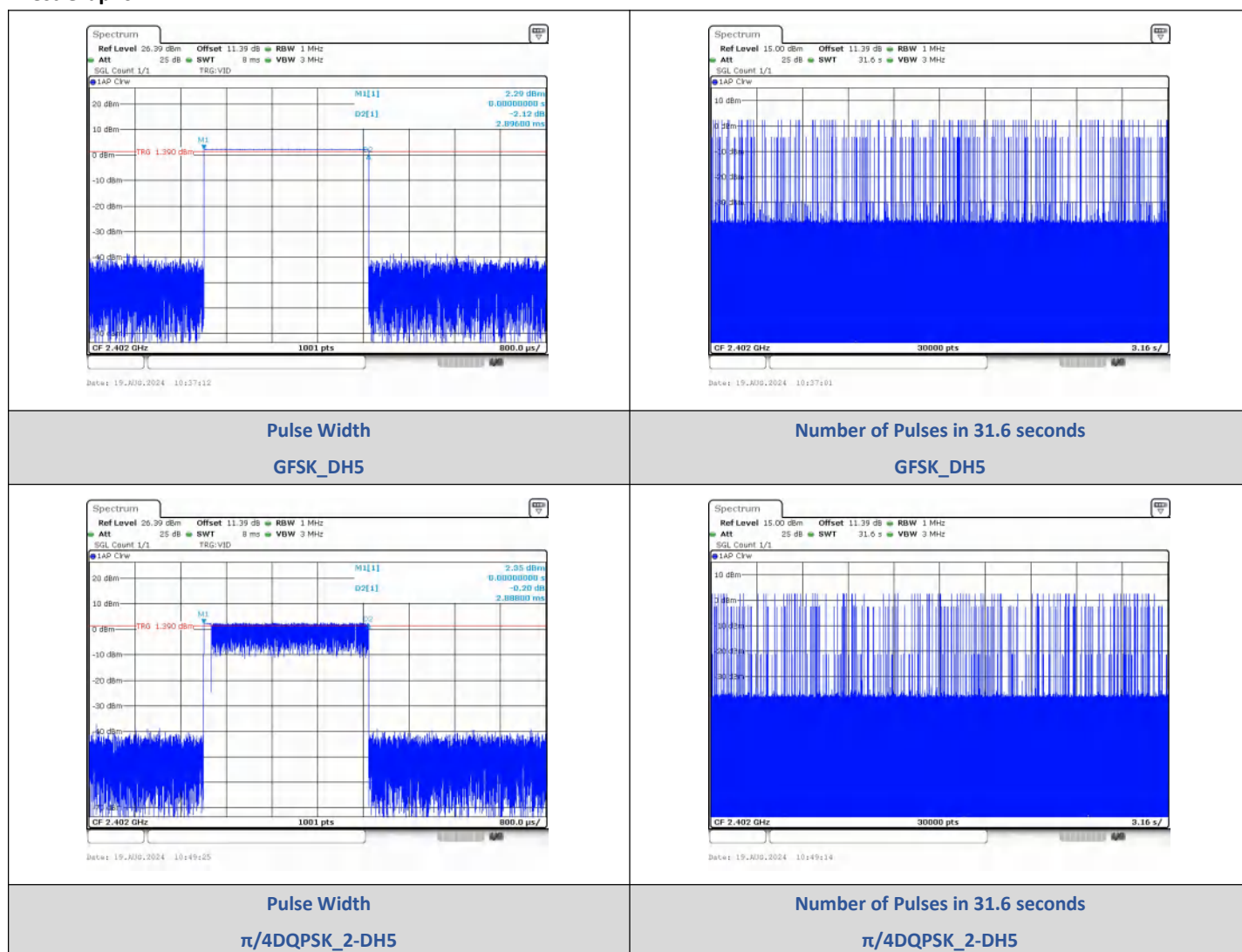
$\pi/4$ DQPSK(2-DH5)_Channel 78

2) Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH0	2.896	103	298.29	< 400	PASS
$\pi/4$ DQPSK	2-DH5	(2402MHz)	2.888	98	283.02		PASS

Test Graphs

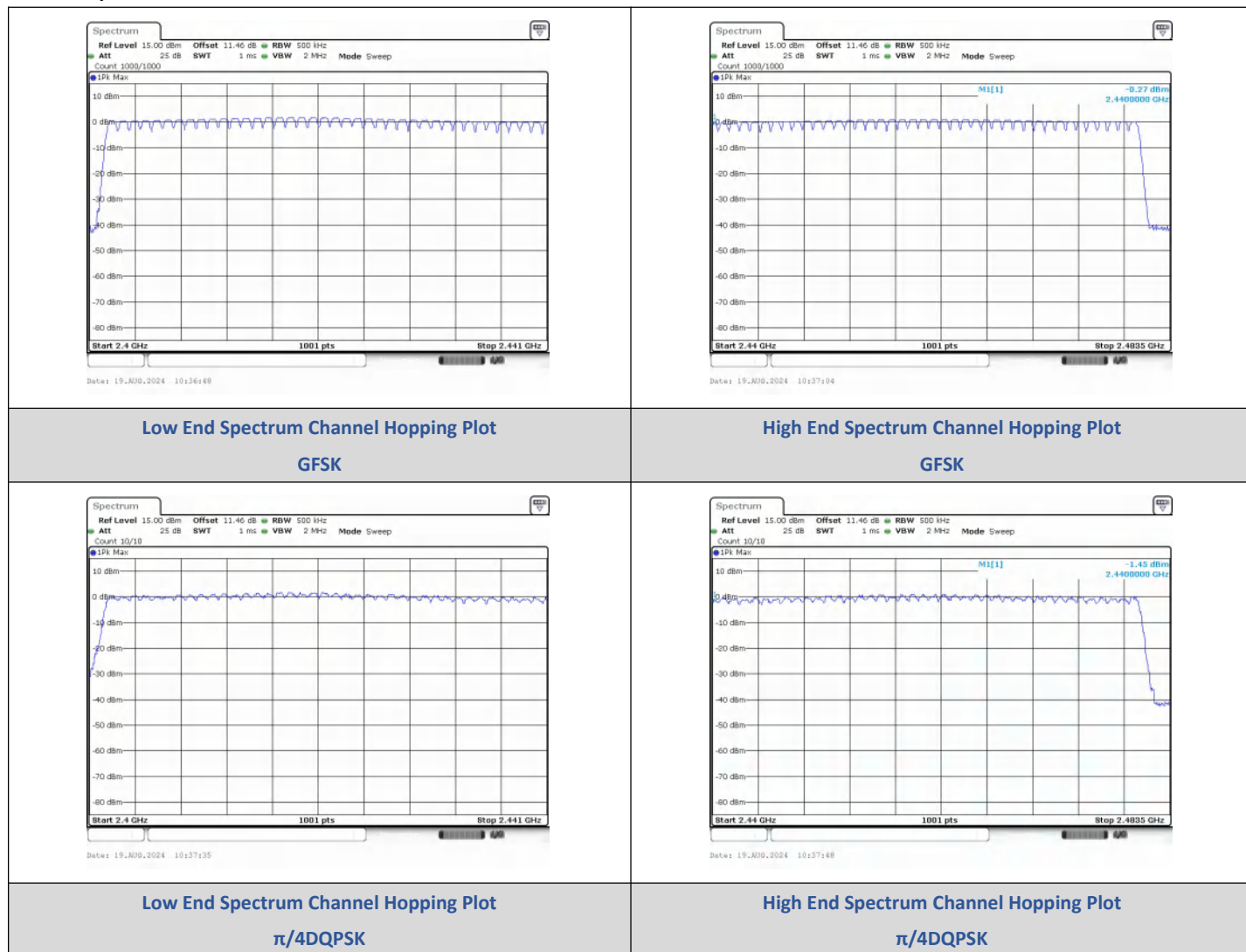


3) Number Of Hopping Channel

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS

Test Graphs

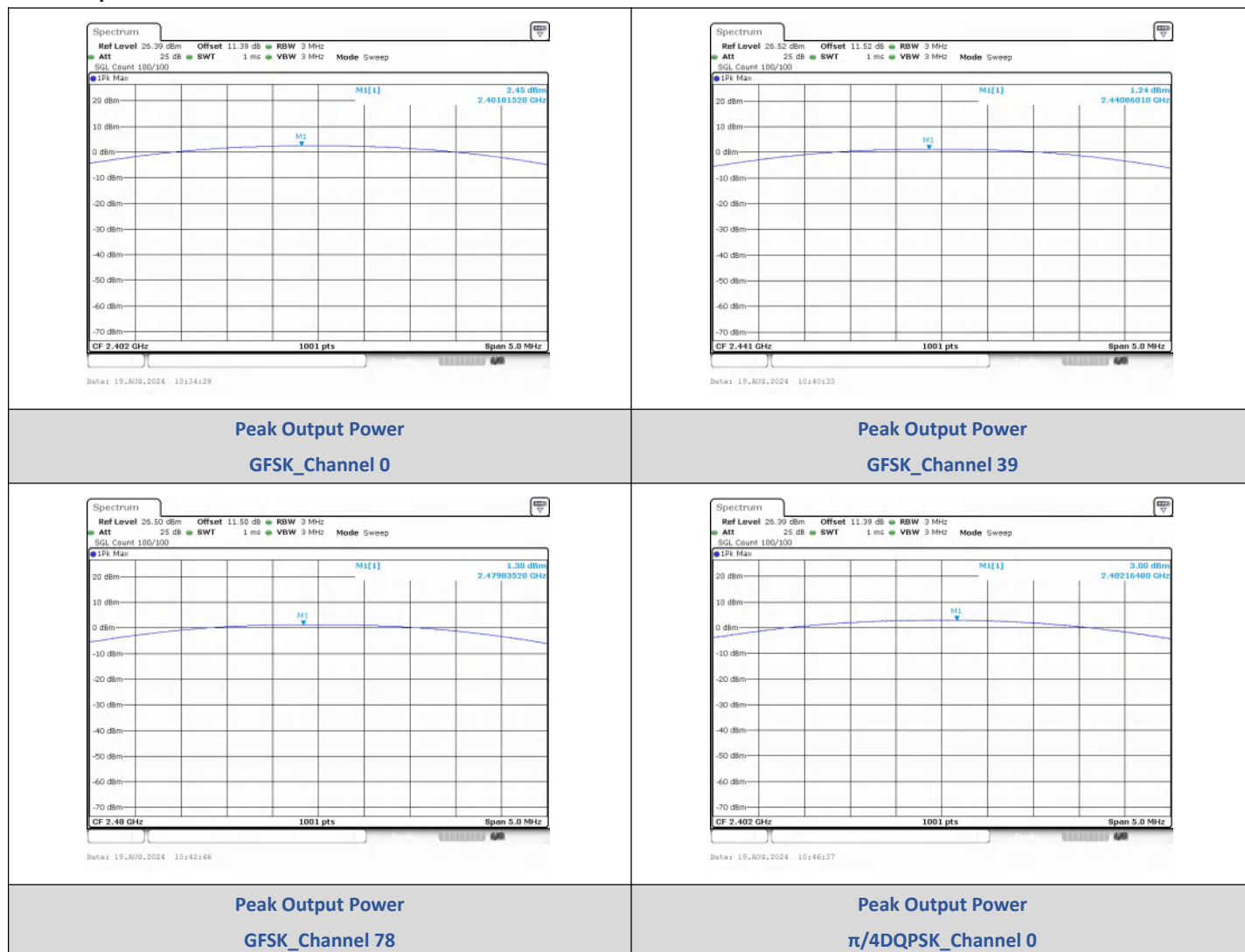


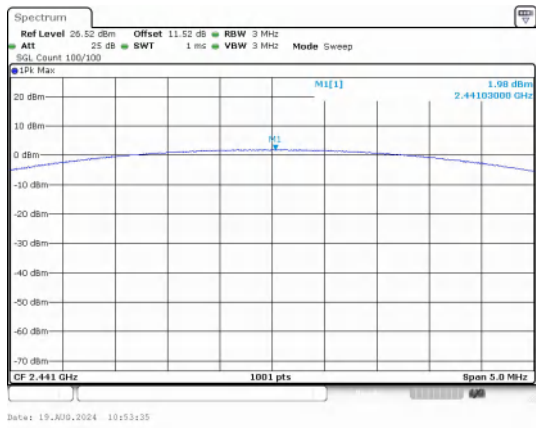
4) Conducted Peak Output Power

Test Result

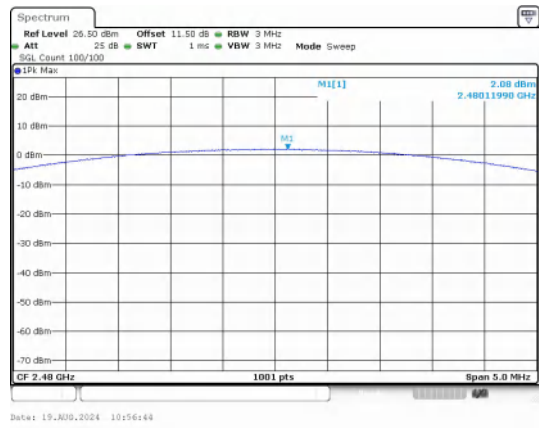
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	2.45	1.76	≤30	PASS
		39	1.24	1.33		PASS
		78	1.30	1.35		PASS
$\pi/4$ DQPSK	2-DH5	0	3.00	1.99	≤20.97	PASS
		39	1.98	1.58		PASS
		78	2.08	1.62		PASS

Test Graphs





Peak Output Power
 $\pi/4$ DQPSK_Channel 39



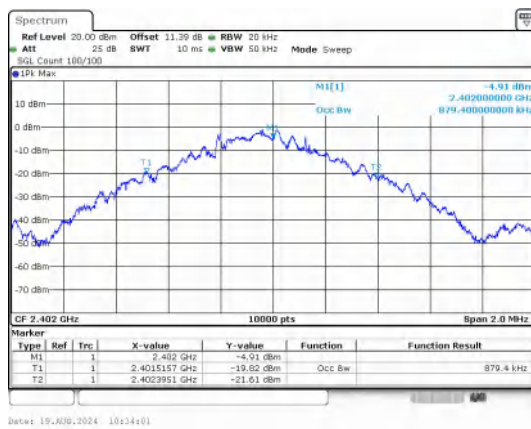
Peak Output Power
 $\pi/4$ DQPSK_Channel 78

5) 99% Bandwidth

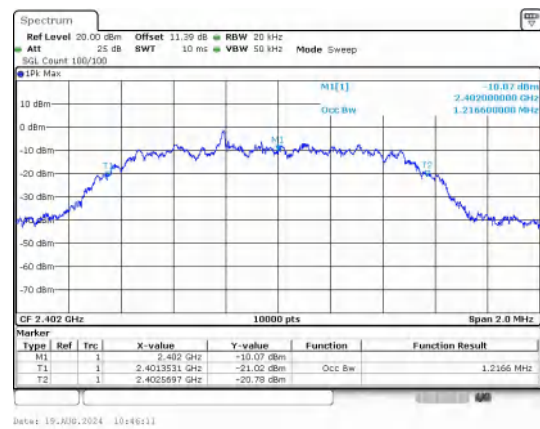
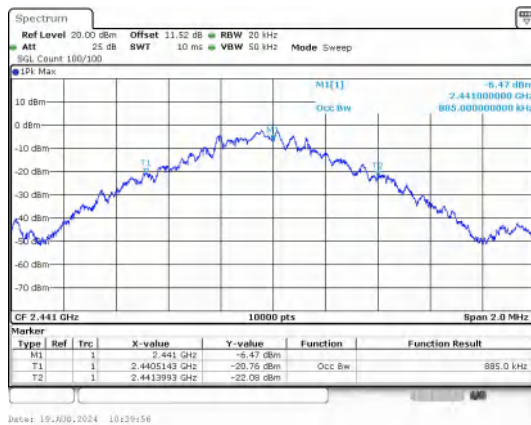
Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.87940
	39	2441	0.88500
	78	2480	0.89960
$\pi/4$ DQPSK	0	2402	1.2166
	39	2441	1.2242
	78	2480	1.1944

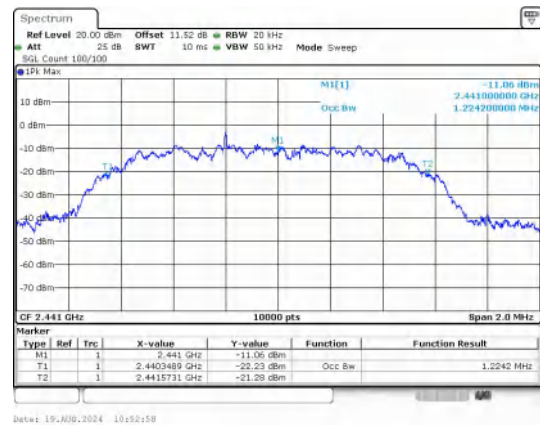
Test Graphs

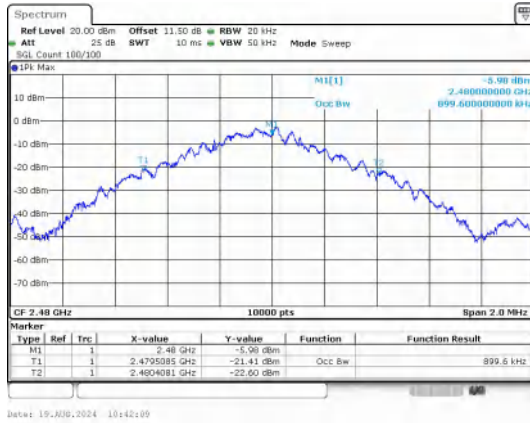


GFSK_DH5_Channel 0

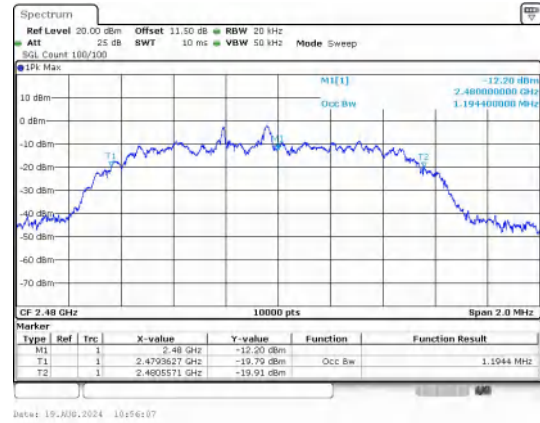

 $\pi/4$ DQPSK_2-DH5_Channel 0


GFSK_DH5_Channel 39


 $\pi/4$ DQPSK_2-DH5_Channel 39



GFSK_DH5_Channel 78



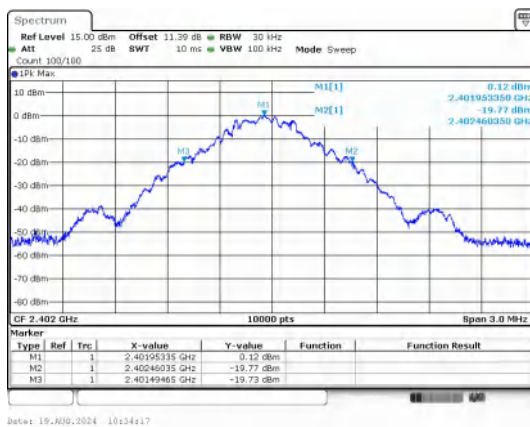
$\pi/4$ DQPSK_2-DH5_Channel 78

6) 20dB Bandwidth

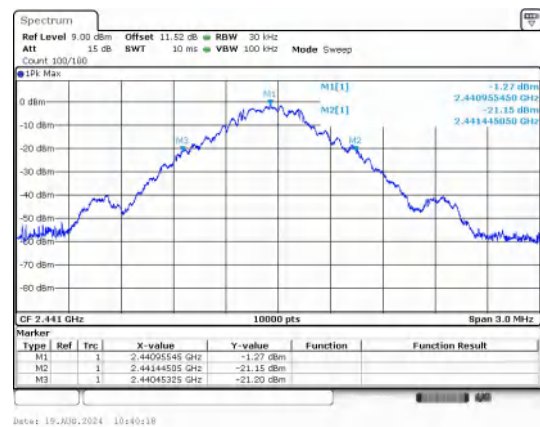
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9700
	39	2441 MHz	0.9900
	78	2480 MHz	0.9800
π /4DQPSK	0	2402 MHz	1.300
	39	2441 MHz	1.310
	78	2480 MHz	1.310

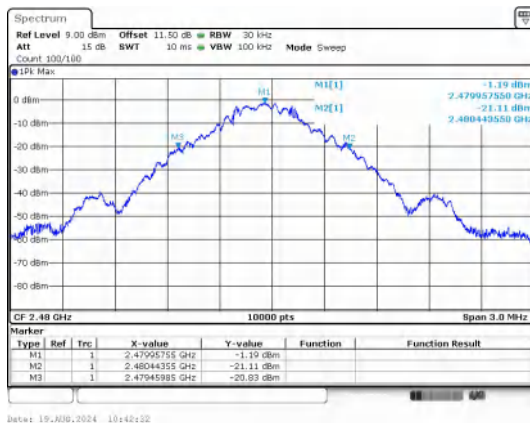
Test Graphs



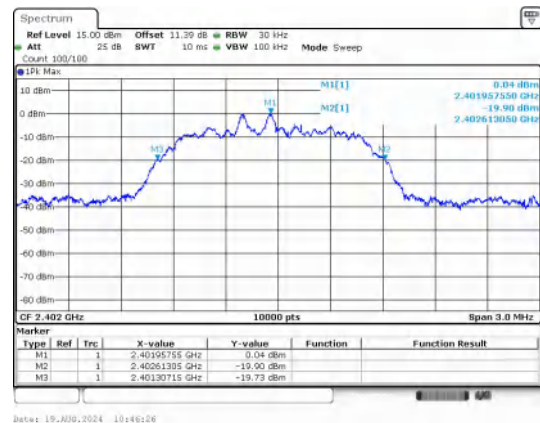
GFSK_DH5_Channel 0



GFSK_DH5_Channel 39

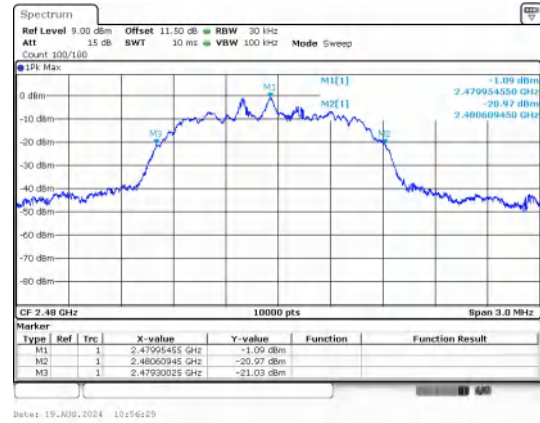


GFSK_DH5_Channel 78


 π /4DQPSK_2-DH5_Channel 0



$\pi/4$ DQPSK_2-DH5_Channel 39



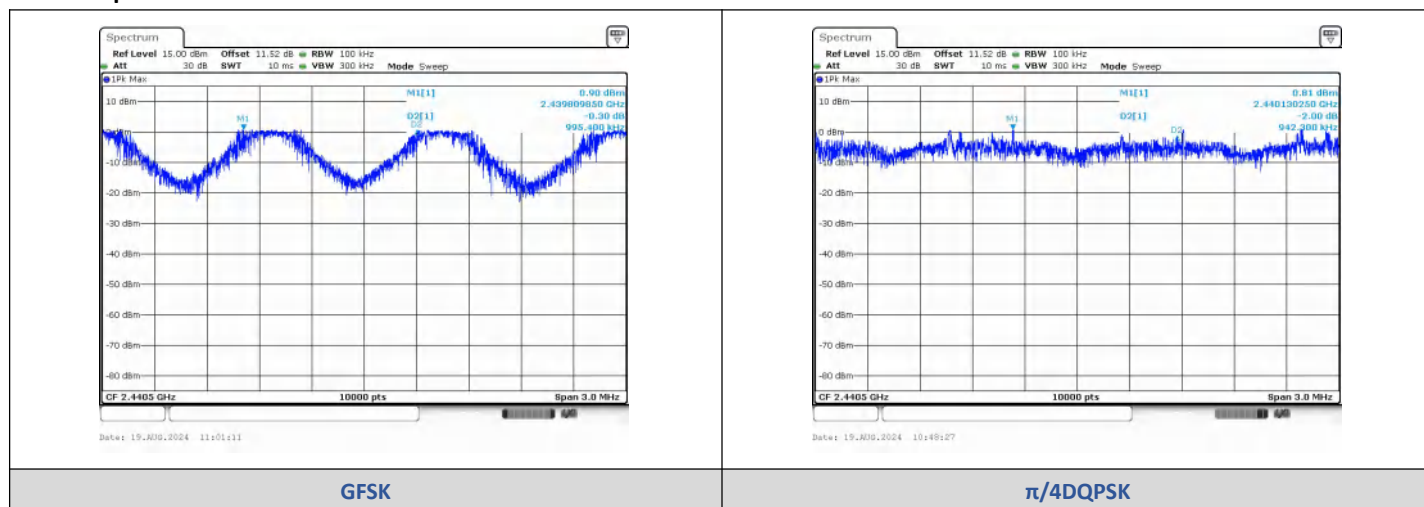
$\pi/4$ DQPSK_2-DH5_Channel 78

7) Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8099	2440.8052	0.9954	0.990	PASS
$\pi/4$ DQPSK	2-DH5	2440.1303	2441.0725	0.9423	0.867	PASS

Test Graphs



8) Conducted Out Of Band Emission

Test Result

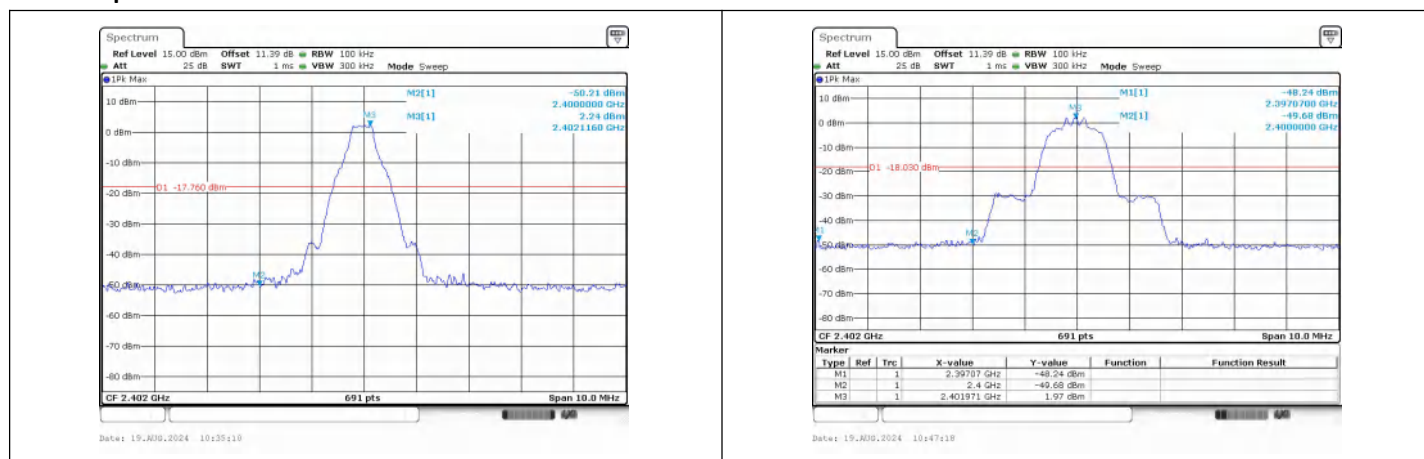
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-49.446	-17.76	-31.686	PASS
			2400.00	-50.207	-17.76	-32.447	PASS
			7205.10	-39.336	-17.76	-21.576	PASS
		39	7322.49	-44.353	-19.01	-25.343	PASS
		78	2287.70	-44.386	-18.81	-25.576	PASS
			2483.50	-50.903	-18.81	-32.093	PASS
$\pi/4$ DQPSK	2-DH5	0	2397.07	-48.245	-18.03	-30.215	PASS
			2400.00	-49.684	-18.03	-31.654	PASS
			7206.00	-41.933	-18.03	-23.903	PASS
		39	2248.58	-45.705	-18.88	-26.825	PASS
		78	2287.70	-44.094	-18.83	-25.264	PASS
			2483.50	-50.543	-18.83	-31.713	PASS

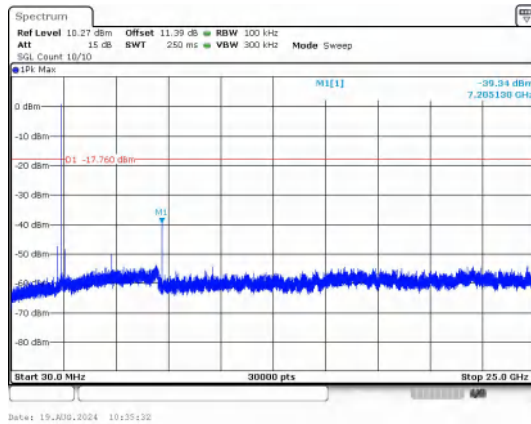
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.76	-48.102	-18.12	-29.982	PASS
			2400.00	-50.387	-18.12	-32.267	PASS
			2483.50	-50.233	-19.23	-31.003	PASS
$\pi/4$ DQPSK	2-DH5		2397.09	-48.548	-18.09	-30.458	PASS
			2400.00	-50.204	-18.09	-32.114	PASS
			2483.50	-49.998	-22.68	-27.318	PASS

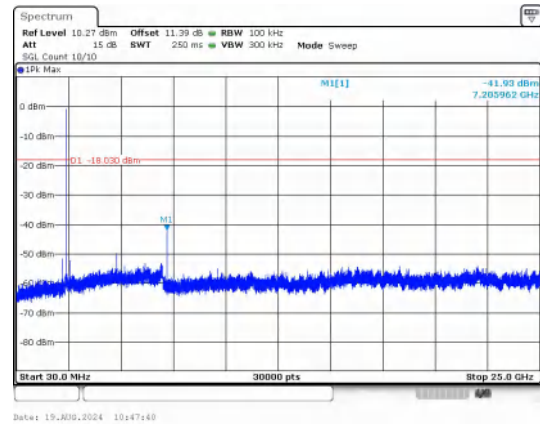
Test Graphs



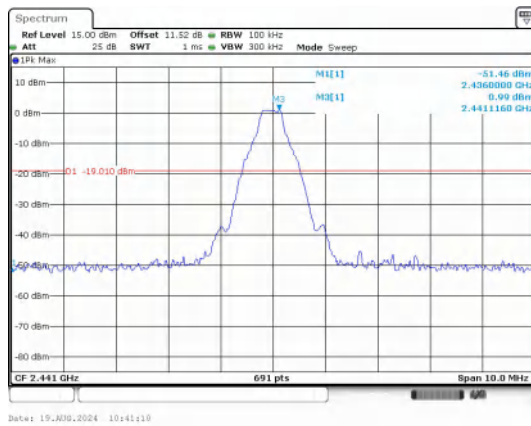
Out Of Band Emission
GFSK_DH5_Channel 0



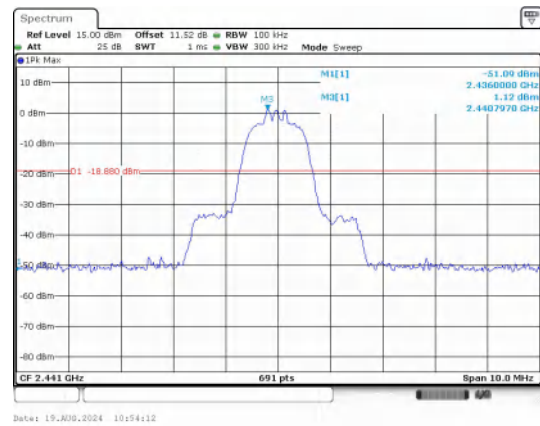
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



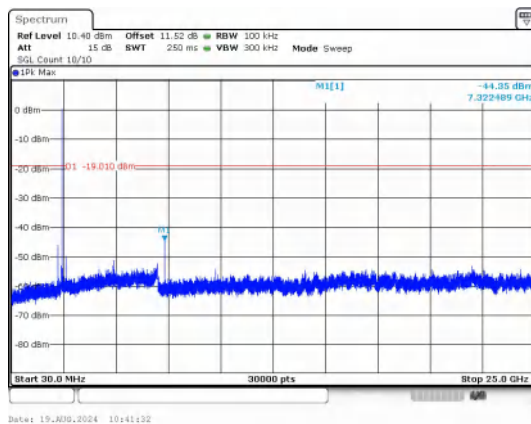
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



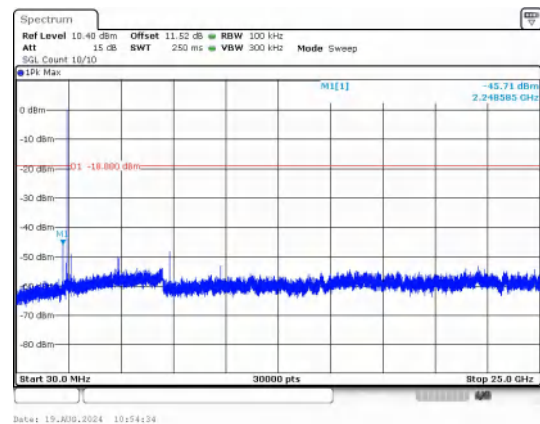
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



Out Of Band Emission
GFSK_DH5_Channel 39

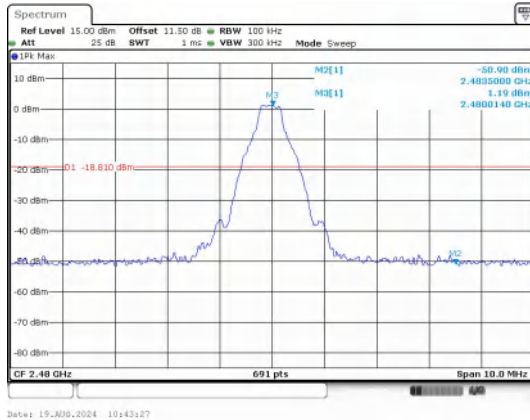


Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39

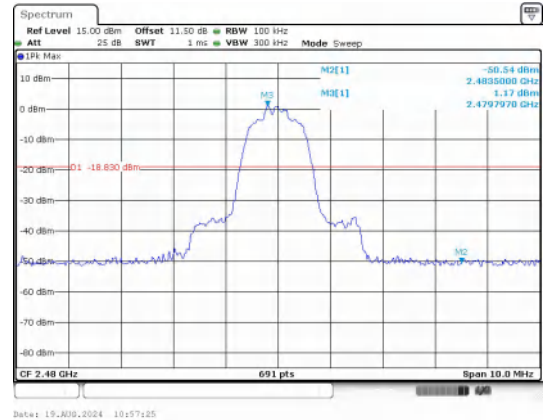


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39

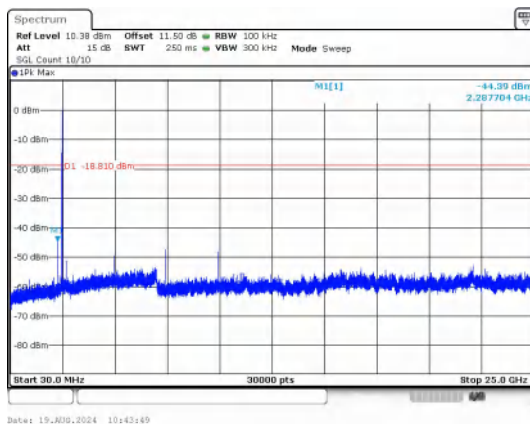
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



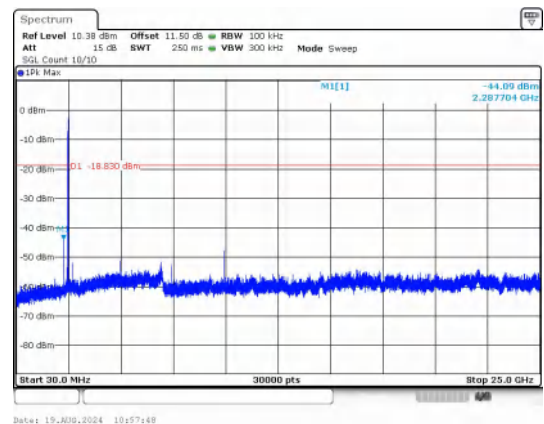
Out Of Band Emission
GFSK_DH5_Channel 78



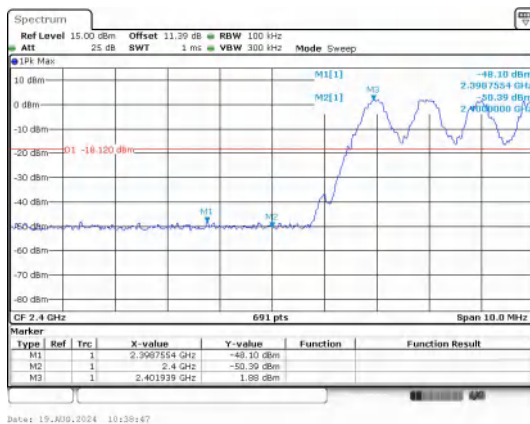
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



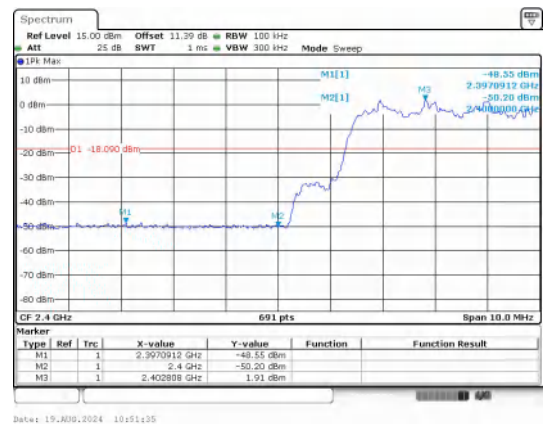
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



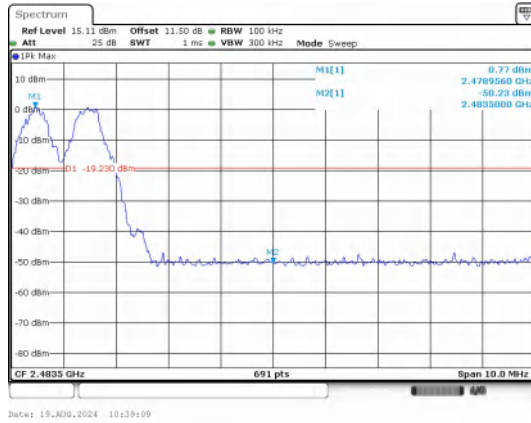
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



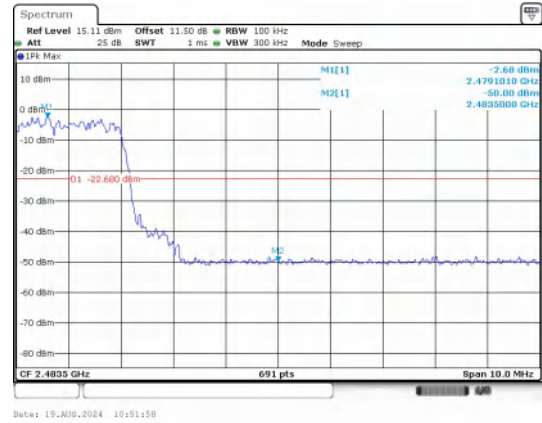
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping