

RF Conducted Test - appendix III Bluetooth_(Class Bluetooth)_Test data.

E.U.T:	Powered Speaker System
Model Number:	YU6G2
Sample ID	33000272942
Sample(s) Status:	Engineer sample
Date of Receipt:	2026.05.20
Date of Test:	2026.05.20 ~ 2026.05.20
FCC ID:	QKH-KYPG2
IC:	10678A-KYPG2
Report No.	2026062347358932-00
Tester	Hugh Zhang

A.1 CONDUCTED OUTPUT POWER

Test Result

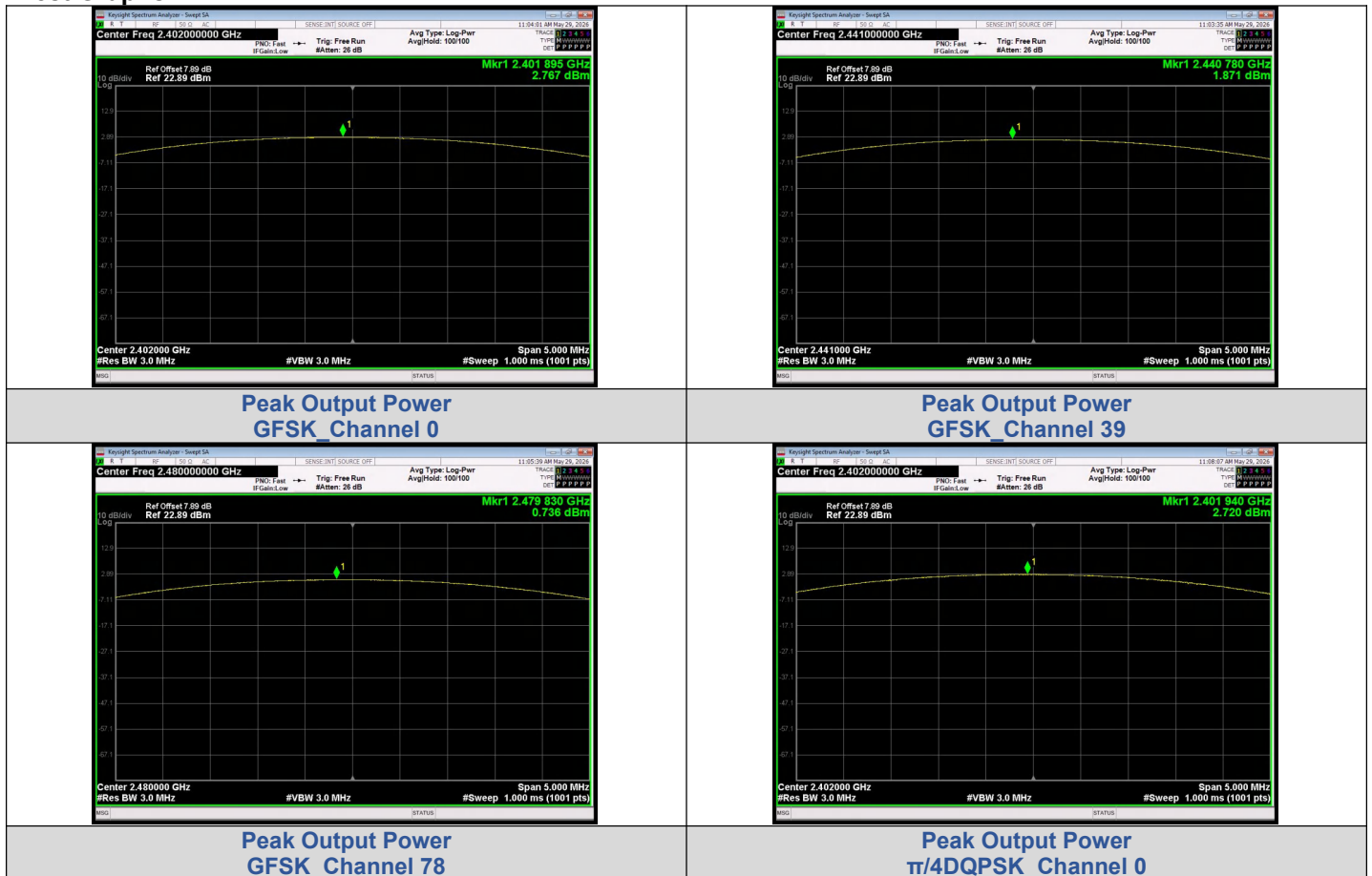
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH1	0	2.77	1.89	None	≤30	PASS
		39	1.87	1.54	None		PASS
		78	0.74	1.18	None		PASS
π/4DQPSK	2-DH1	0	2.72	1.87	None		PASS
		39	1.85	1.53	None		PASS
		78	0.70	1.17	None		PASS
8DPSK	3-DH1	0	2.81	1.91	None		PASS
		39	1.87	1.54	None		PASS
		78	0.78	1.20	None		PASS

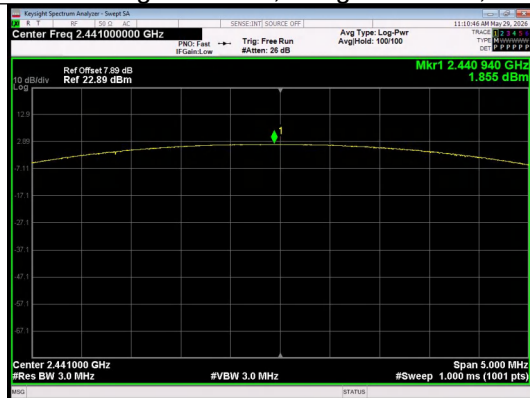
Note: input compensation coefficient (dB)= Cable Loss (dB)

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH1	0	2.77	≤30	2.767	≤36.02	None	PASS
		39	1.87	≤30	1.871	≤36.02	None	PASS
		78	0.74	≤30	0.736	≤36.02	None	PASS
π/4DQPSK	2-DH1	0	2.72	≤30	2.720	≤36.02	None	PASS
		39	1.85	≤30	1.855	≤36.02	None	PASS
		78	0.70	≤30	0.700	≤36.02	None	PASS
8DPSK	3-DH1	0	2.81	≤30	2.814	≤36.02	None	PASS
		39	1.87	≤30	1.870	≤36.02	None	PASS
		78	0.78	≤30	0.777	≤36.02	None	PASS

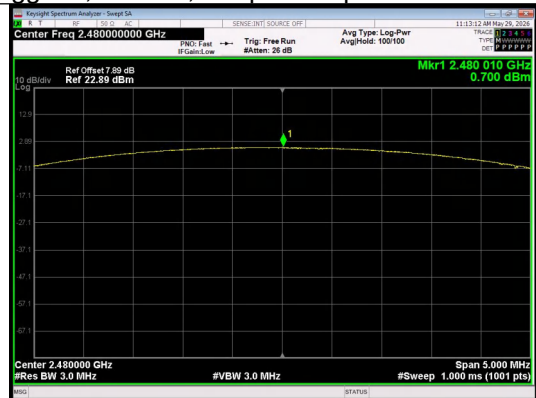
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

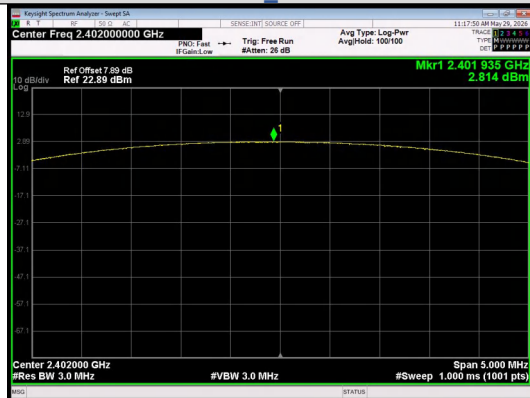




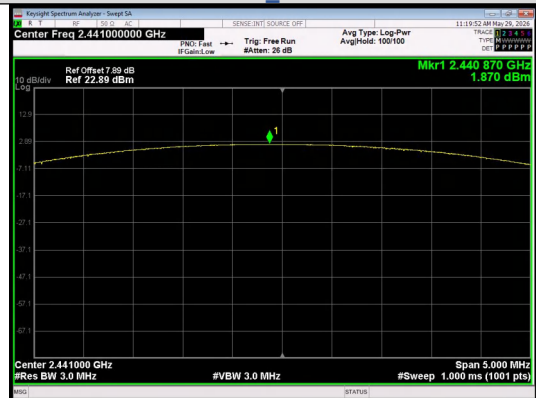
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



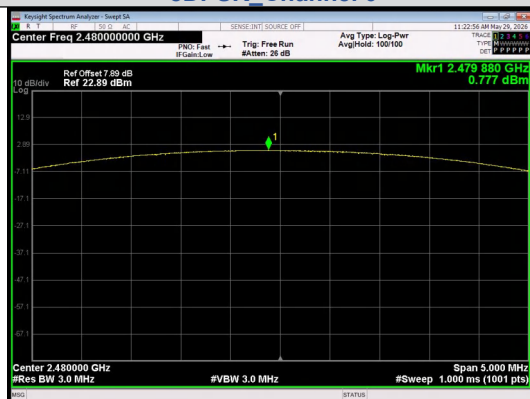
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

A.2 99% BANDWIDTH

Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.81306
	39	2441	0.82994
	78	2480	0.82172
π /4DQPSK	0	2402	1.1157
	39	2441	1.1140
	78	2480	1.1191
8DPSK	0	2402	1.1136
	39	2441	1.0999
	78	2480	1.1006

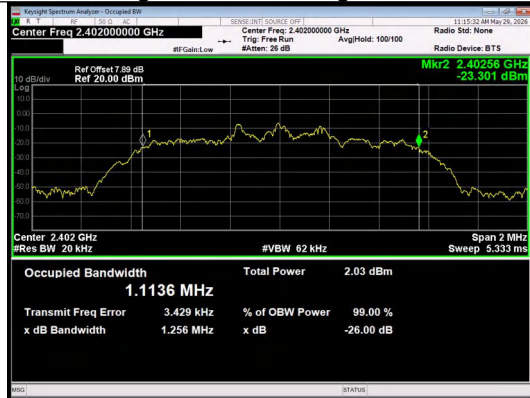
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

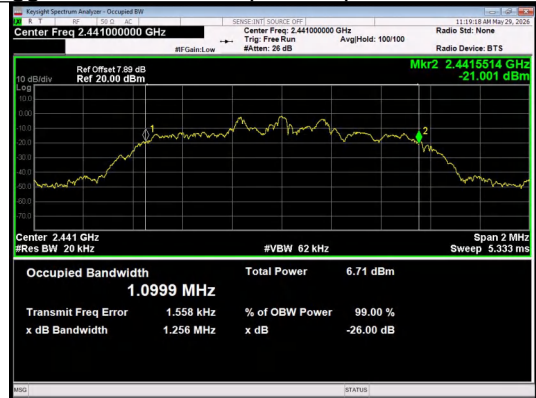




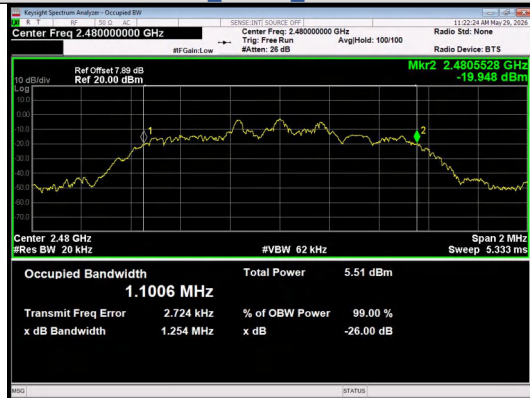
Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan, 523710, People's Republic of China



8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78

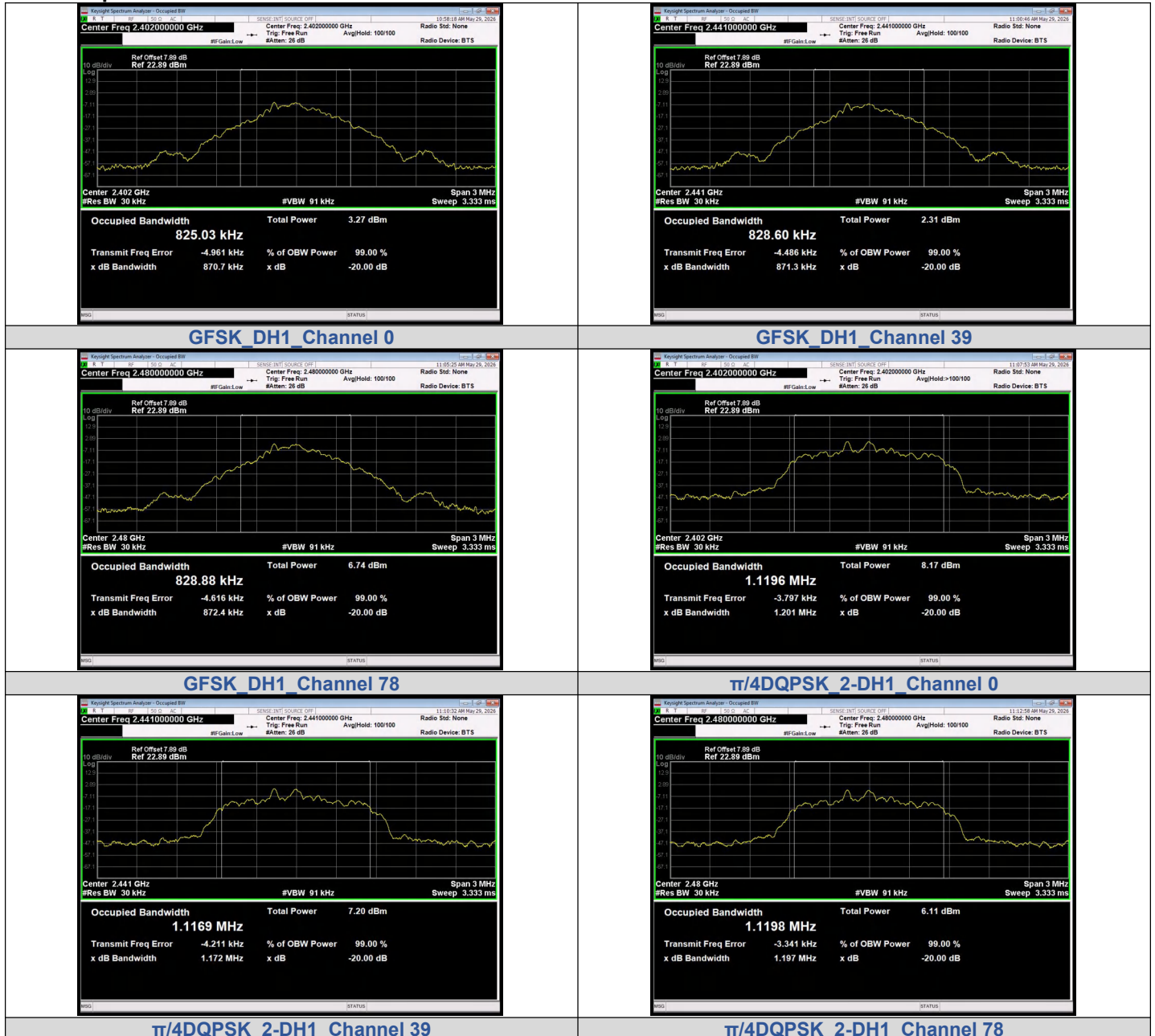
A.3 20DB BANDWIDTH

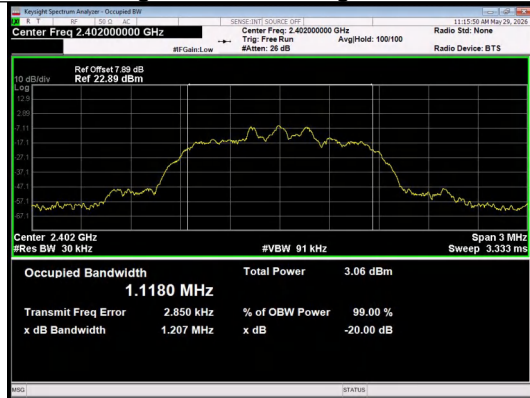
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8707
	39	2441 MHz	0.8713
	78	2480 MHz	0.8724
$\pi/4$ DQPSK	0	2402 MHz	1.201
	39	2441 MHz	1.172
	78	2480 MHz	1.197
8DPSK	0	2402 MHz	1.207
	39	2441 MHz	1.201
	78	2480 MHz	1.204

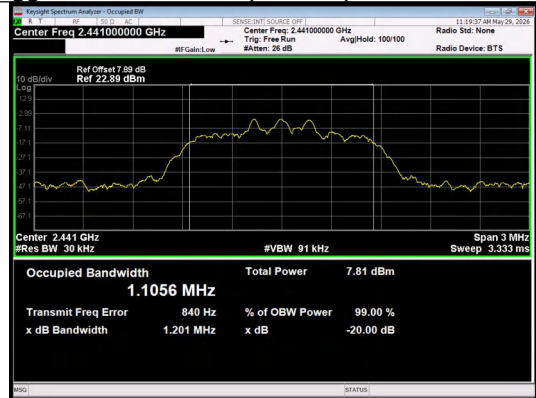
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

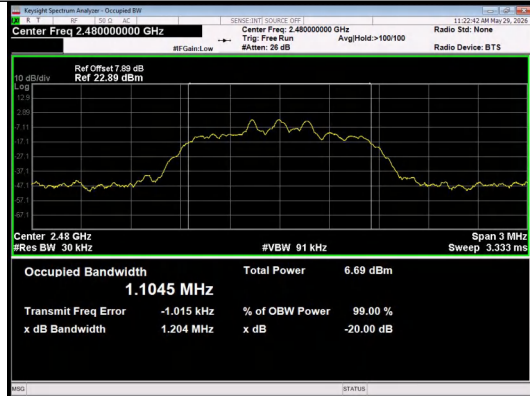




8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78

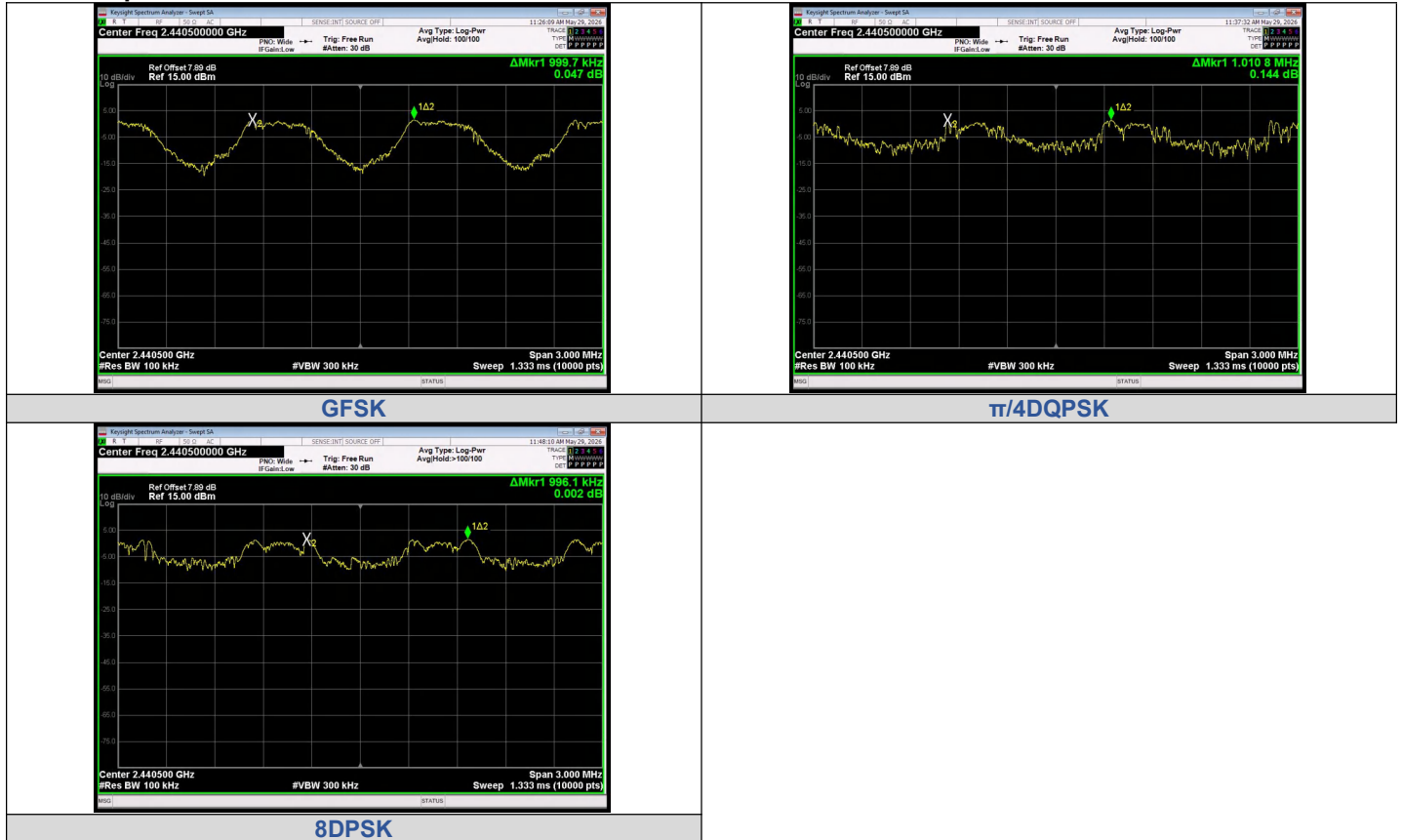
A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Result
GFSK	DH1	2439.8338	2440.8335	0.9997	0.582	PASS
$\pi/4$ DQPSK	2-DH1	2439.8302	2440.841	1.0108	0.801	PASS
8DPSK	3-DH1	2440.1689	2441.165	0.9961	0.805	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs



A.5 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2358.28	-54.022	-23.15	-30.872	PASS
			2400.00	-55.755	-23.15	-32.605	PASS
			23541.8	-55.937	-23.15	-32.787	PASS
		39	24696.6	-56.162	-24.16	-32.002	PASS
		78	2483.50	-56.131	-19.61	-36.521	PASS
			23729.0	-55.869	-19.61	-36.259	PASS
$\pi/4$ DQPSK	2-DH1	0	2387.99	-52.505	-17.68	-34.825	PASS
			2400.00	-54.490	-17.68	-36.810	PASS
			23533.0	-55.417	-17.68	-37.737	PASS
		39	24918.2	-55.654	-18.56	-37.094	PASS
		78	2483.50	-55.833	-19.73	-36.103	PASS
			23691.0	-55.481	-19.73	-35.751	PASS
8DPSK	3-DH1	0	2377.91	-54.336	-23.21	-31.126	PASS
			2400.00	-54.631	-23.21	-31.421	PASS
			23556.1	-56.253	-23.21	-33.043	PASS
		39	23742.1	-56.131	-18.54	-37.591	PASS
		78	2483.50	-57.120	-19.67	-37.450	PASS
			24513.1	-56.039	-19.67	-36.369	PASS

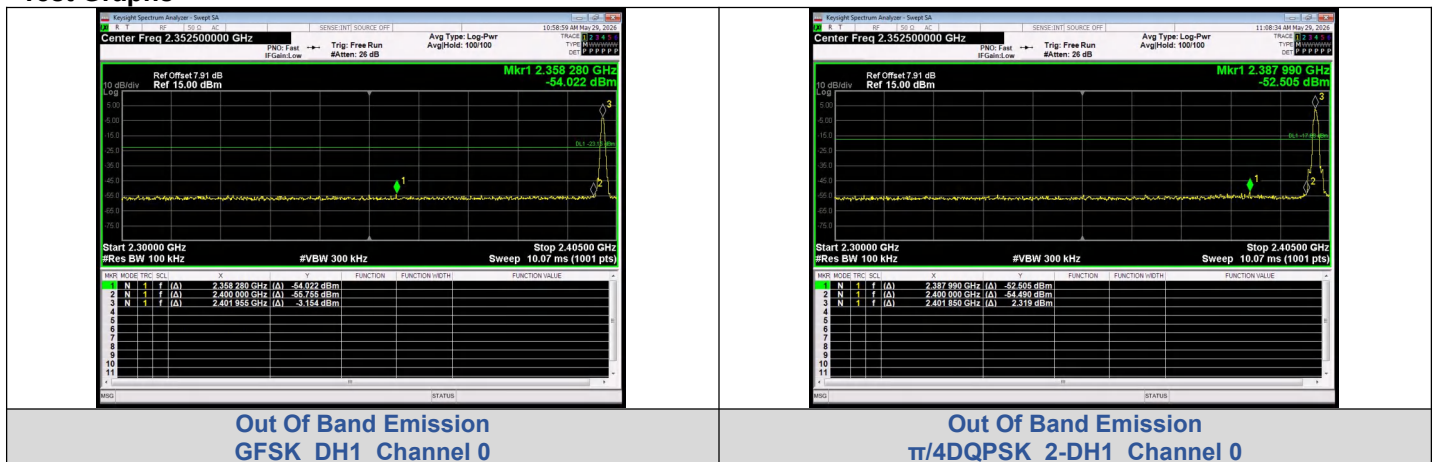
Note: input compensation coefficient (dB)= Cable Loss (dB)

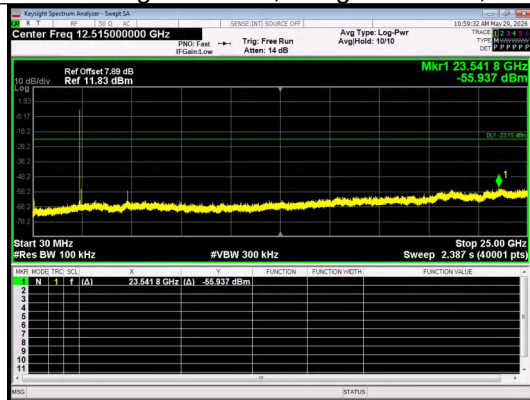
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2395.34	-52.885	-17.55	-35.335	PASS
			2400.00	-54.512	-17.55	-36.962	PASS
			2483.50	-55.098	-19.55	-35.548	PASS
π/4DQPSK	2-DH1		2377.39	-52.959	-17.56	-35.399	PASS
			2400.00	-54.534	-17.56	-36.974	PASS
			2483.50	-56.053	-19.59	-36.463	PASS
8DPSK	3-DH1		2393.97	-52.042	-17.59	-34.452	PASS
			2400.00	-53.827	-17.59	-36.237	PASS
			2483.50	-55.073	-19.57	-35.503	PASS

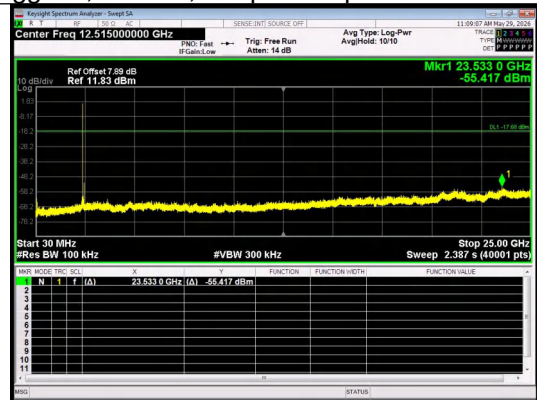
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

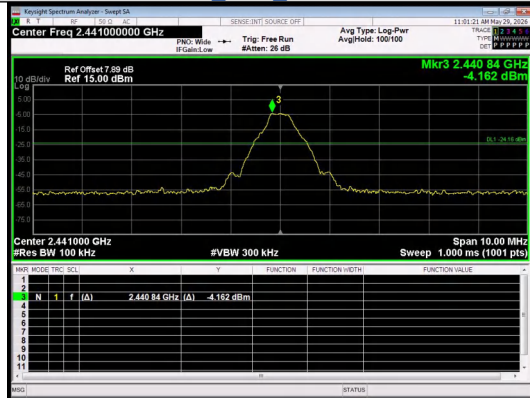




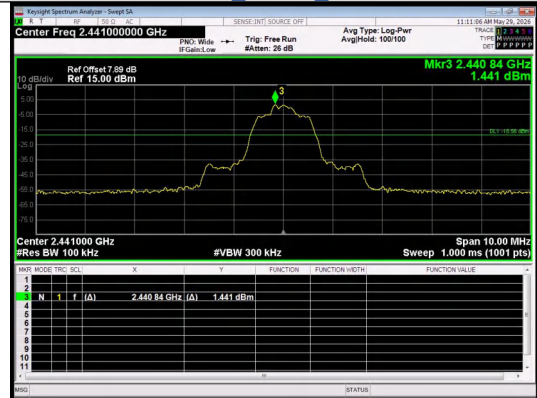
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0



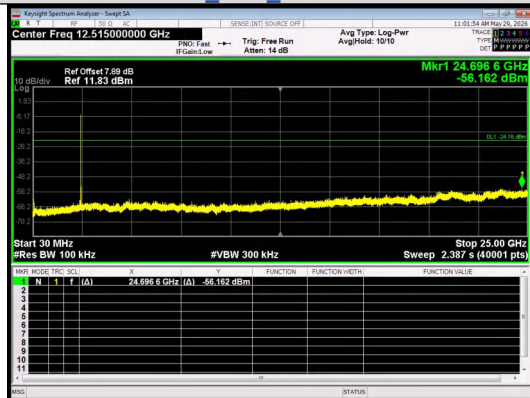
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 0



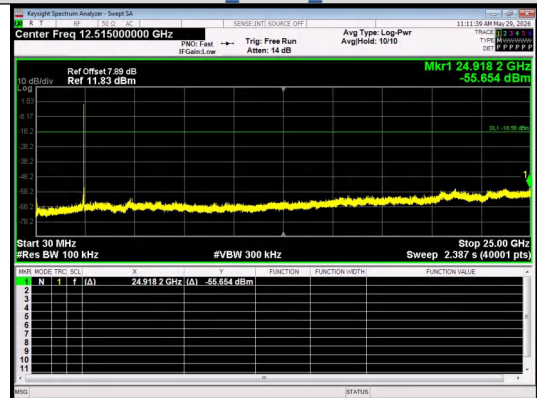
Out Of Band Emission
GFSK_DH1_Channel 39



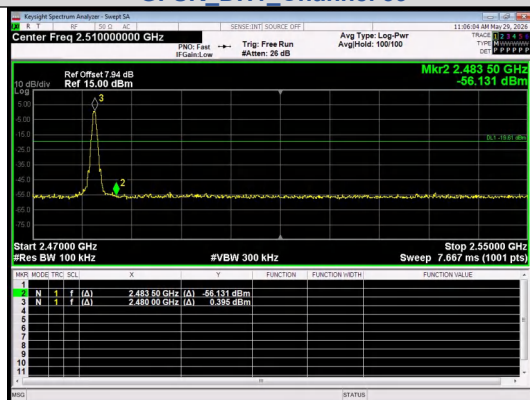
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 39



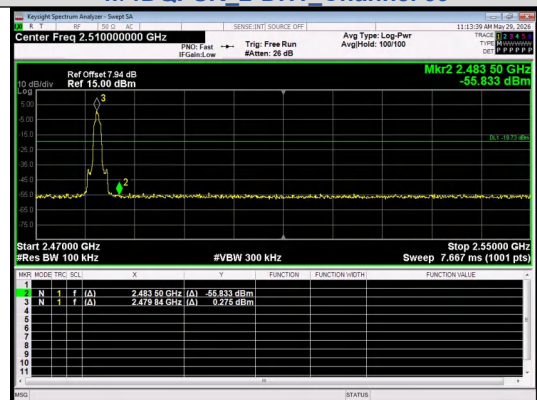
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



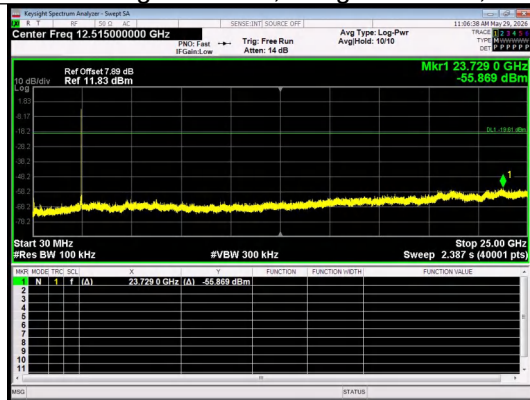
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 39



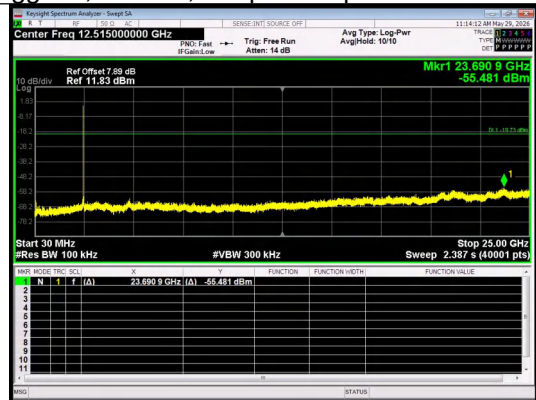
Out Of Band Emission
GFSK_DH1_Channel 78



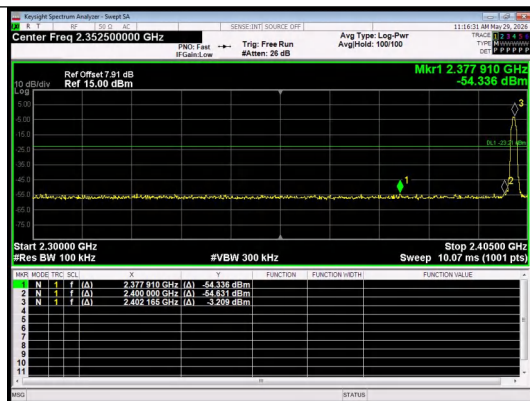
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 78



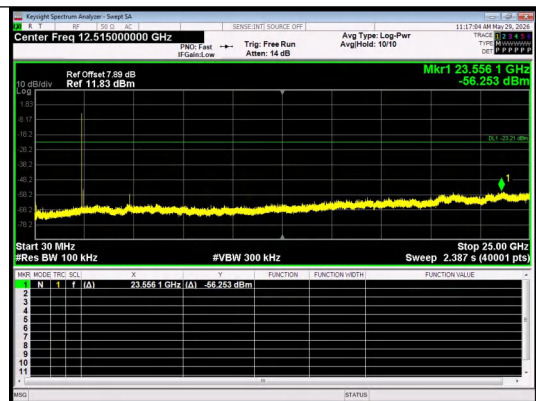
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



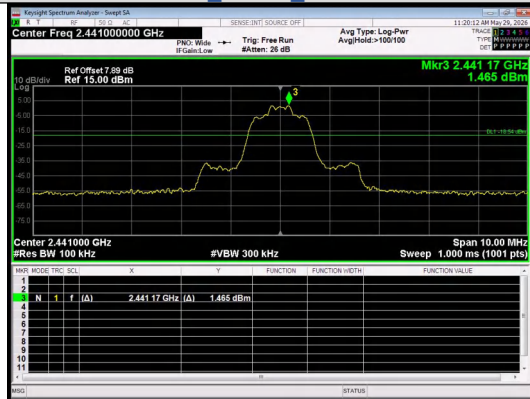
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 78



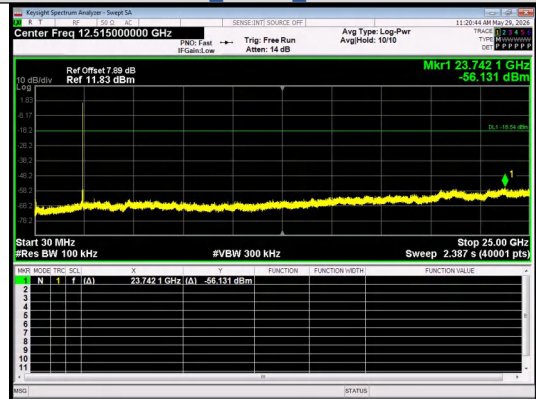
Out Of Band Emission
8DPSK_3-DH1_Channel 0



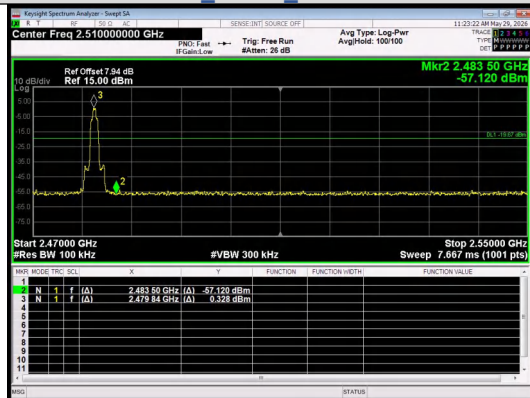
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0



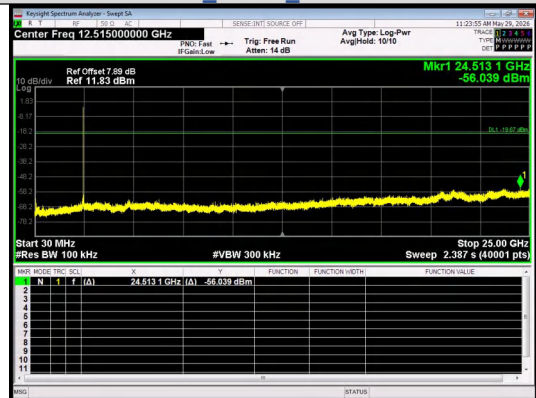
Out Of Band Emission
8DPSK_3-DH1_Channel 39



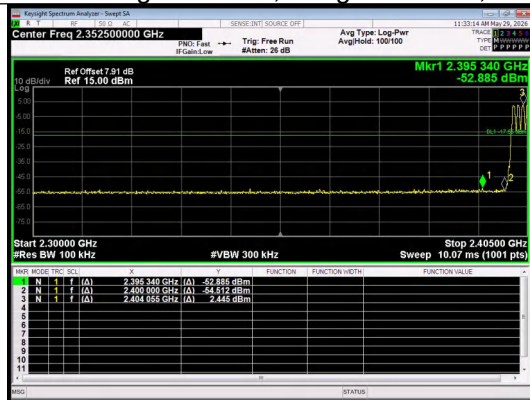
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39



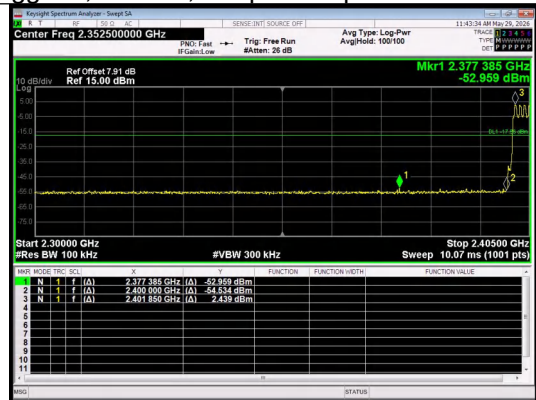
Out Of Band Emission
8DPSK_3-DH1_Channel 78



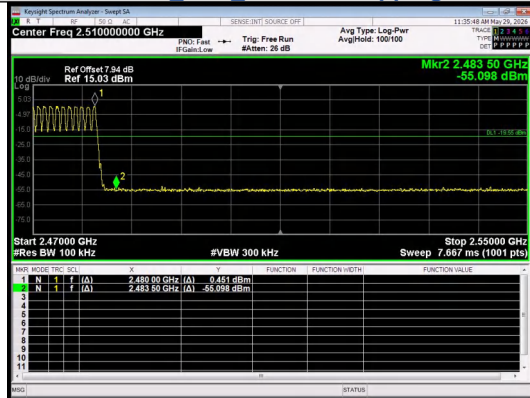
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78



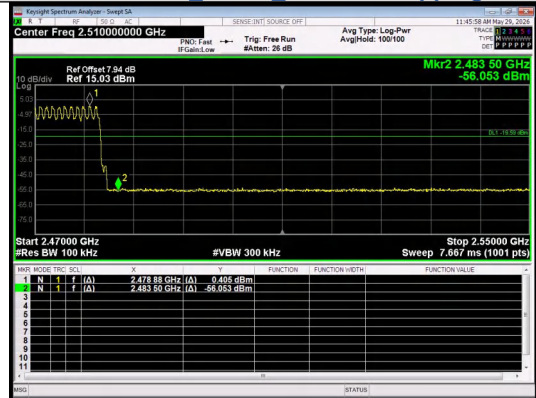
Out Of Band Emission(Left)
GFSK_DH1_Channel Hopping



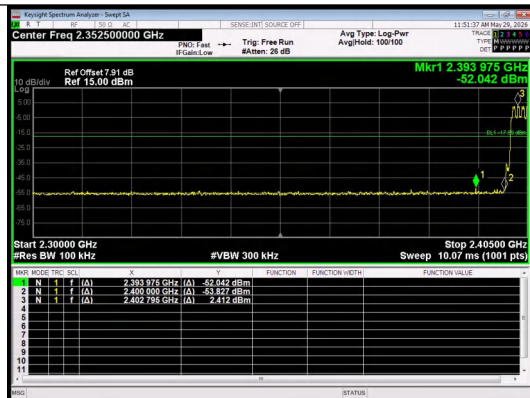
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH1_Channel Hopping



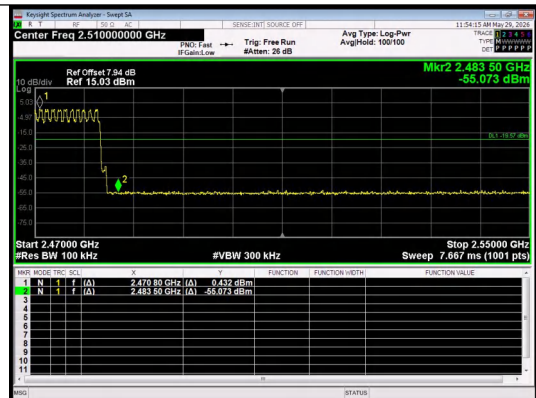
Out Of Band Emission(Right)
GFSK_DH1_Channel Hopping



Out Of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH1_Channel Hopping



Out Of Band Emission(Left)
8DPSK_3-DH1_Channel Hopping



Out Of Band Emission(Right)
8DPSK_3-DH1_Channel Hopping

A.6 DUTY CYCLE

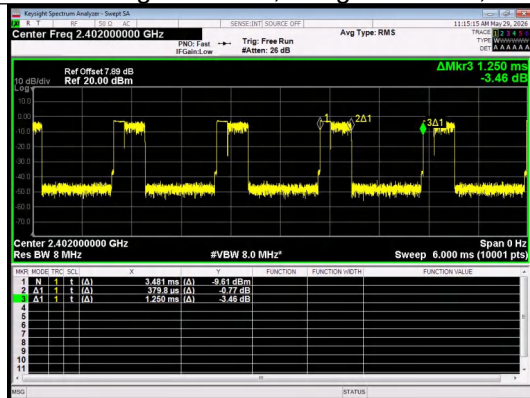
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH1	0	0.372	1.250	29.76	0.2976	5.2637	2.6882
		39	0.372	1.250	29.76	0.2976	5.2637	2.6882
		78	0.372	1.250	29.76	0.2976	5.2637	2.6882
π /4DQPSK	2-DH1	0	0.379	1.249	30.36	0.3036	5.177	2.6385
		39	0.380	1.250	30.39	0.3039	5.1727	2.6316
		78	0.380	1.250	30.39	0.3039	5.1727	2.6316
8DPSK	3-DH1	0	0.380	1.250	30.39	0.3039	5.1727	2.6316
		39	0.380	1.250	30.39	0.3039	5.1727	2.6316
		78	0.379	1.249	30.36	0.3036	5.177	2.6385

Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

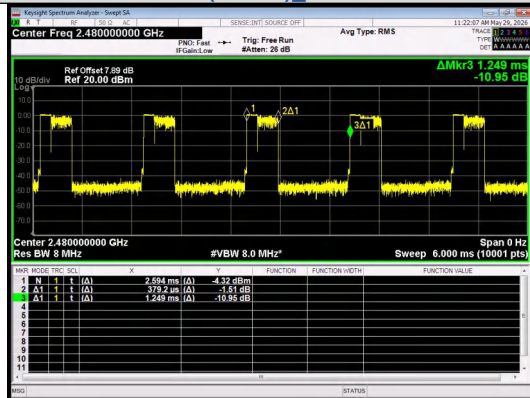




8DPSK(3-DH1)_Channel 0



8DPSK(3-DH1)_Channel 39



8DPSK(3-DH1)_Channel 78

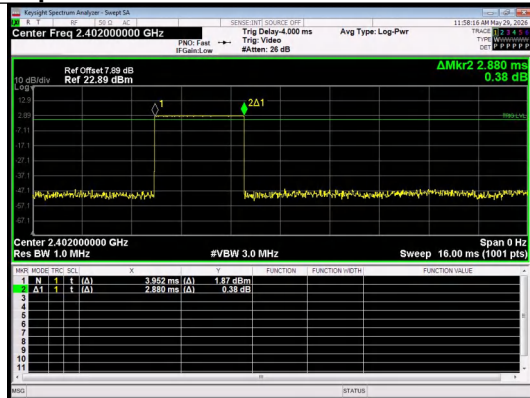
A.7 DWELL TIME

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.880	107	308.16	< 400	PASS
	DH5		2.880	106	305.28		PASS
	DH5		2.880	107	308.16		PASS
π/4DQPSK	2-DH5		2.880	107	308.16		PASS
	2-DH5		2.880	107	308.16		PASS
	2-DH5		2.880	106	305.28		PASS
8DPSK	3-DH5		2.880	106	305.28		PASS
	3-DH5		2.896	107	309.87		PASS
	3-DH5		2.880	106	305.28		PASS

Note: Dwell time= Pulse time(ms)*Number of Pulses in 31.6 seconds
 input compensation coefficient (dB)= Cable Loss (dB)

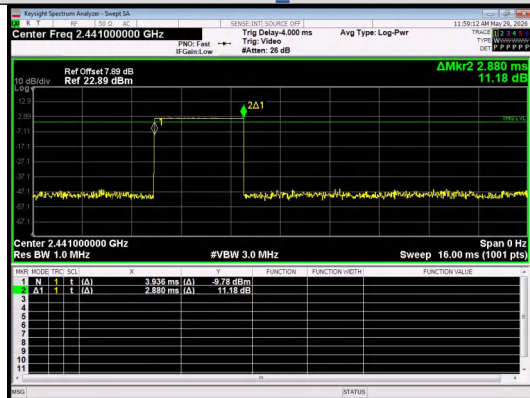
Test Graphs



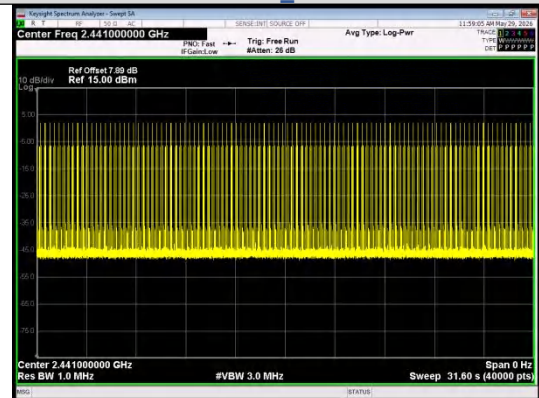
**Pulse Width
GFSK_DH5**



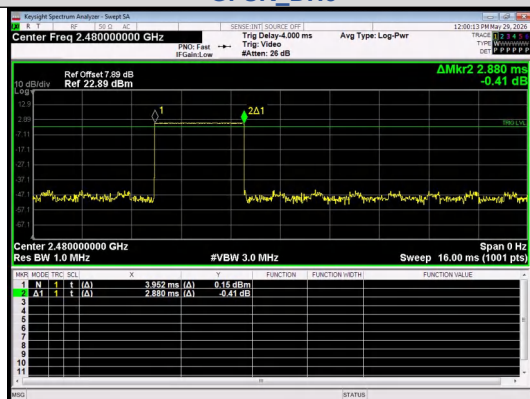
**Number of Pulses in 31.6 seconds
GFSK_DH5**



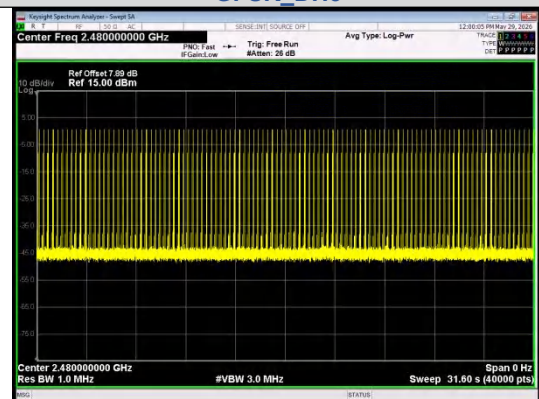
**Pulse Width
GFSK_DH5**



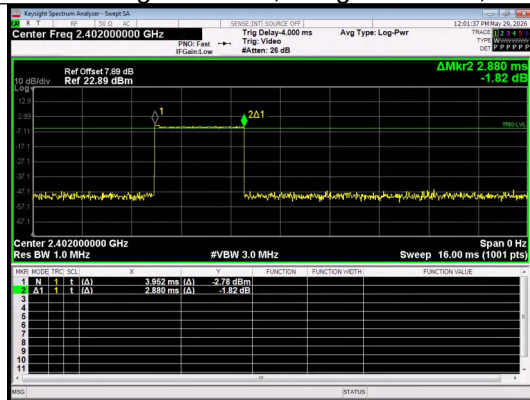
**Number of Pulses in 31.6 seconds
GFSK_DH5**



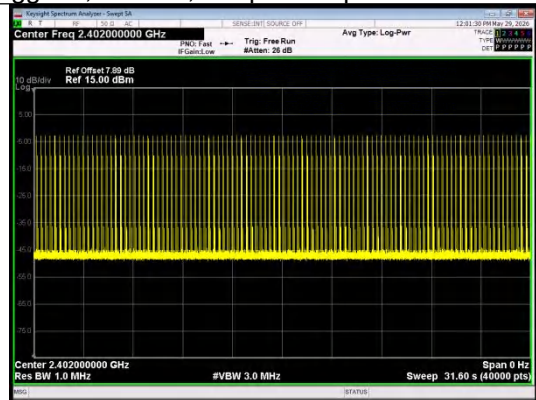
**Pulse Width
GFSK_DH5**



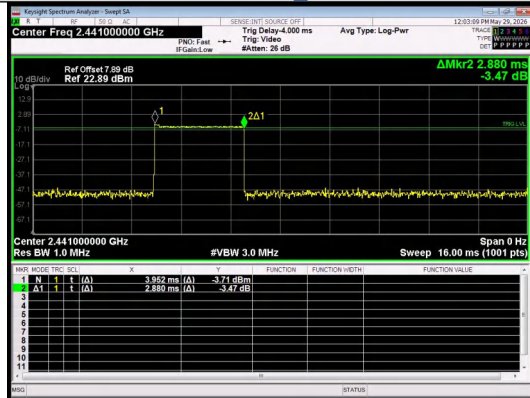
**Number of Pulses in 31.6 seconds
GFSK_DH5**



Pulse Width
 $\pi/4$ DQPSK_2-DH5



Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



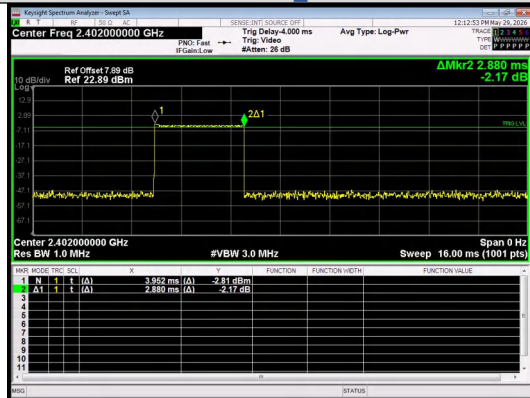
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



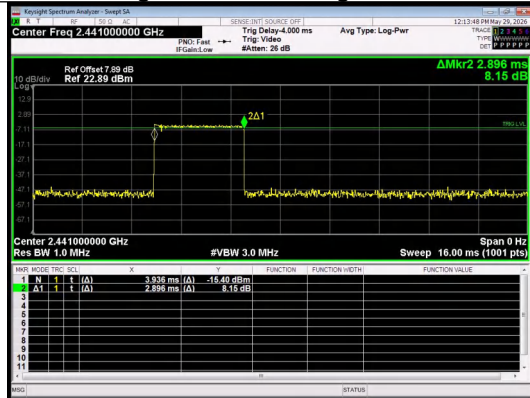
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



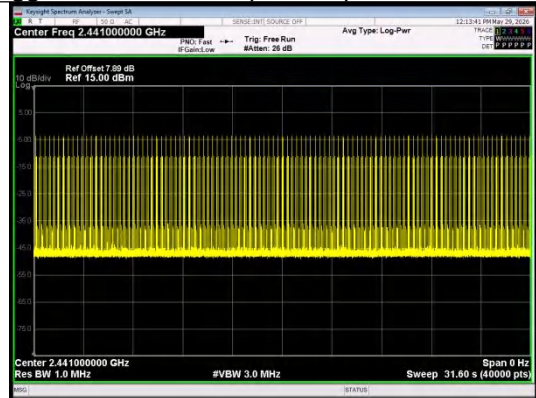
Pulse Width
8DPSK_3-DH5



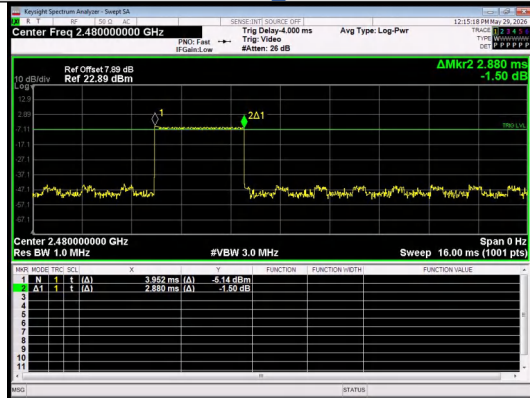
Number of Pulses in 31.6 seconds
8DPSK_3-DH5



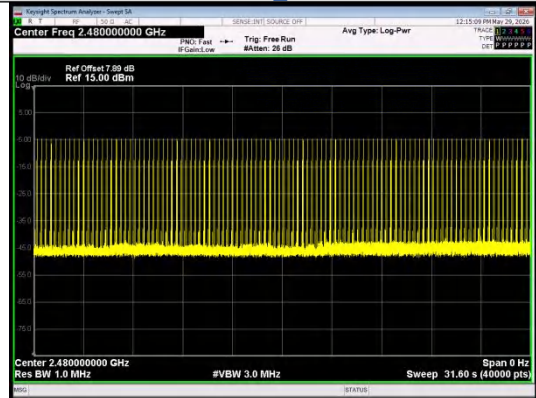
Pulse Width
8DPSK_3-DH5



Number of Pulses in 31.6 seconds
8DPSK_3-DH5



Pulse Width
8DPSK_3-DH5



Number of Pulses in 31.6 seconds
8DPSK_3-DH5

A.8 NUMBER OF HOPPING CHANNEL

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH1	79	15	PASS
$\pi/4$ DQPSK	2-DH1	79	15	PASS
8DPSK	3-DH1	79	15	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

