

RF Test Data for 2.4G (Conducted Measurements)

General Description of EUT	
Product Name:	TETRIX 2.4 GHZ 4 CHANNEL WIRELESS GAMEPAD
Test Model:	40239
Sample ID:	202203-0342_04-03
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 6V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0342-7	

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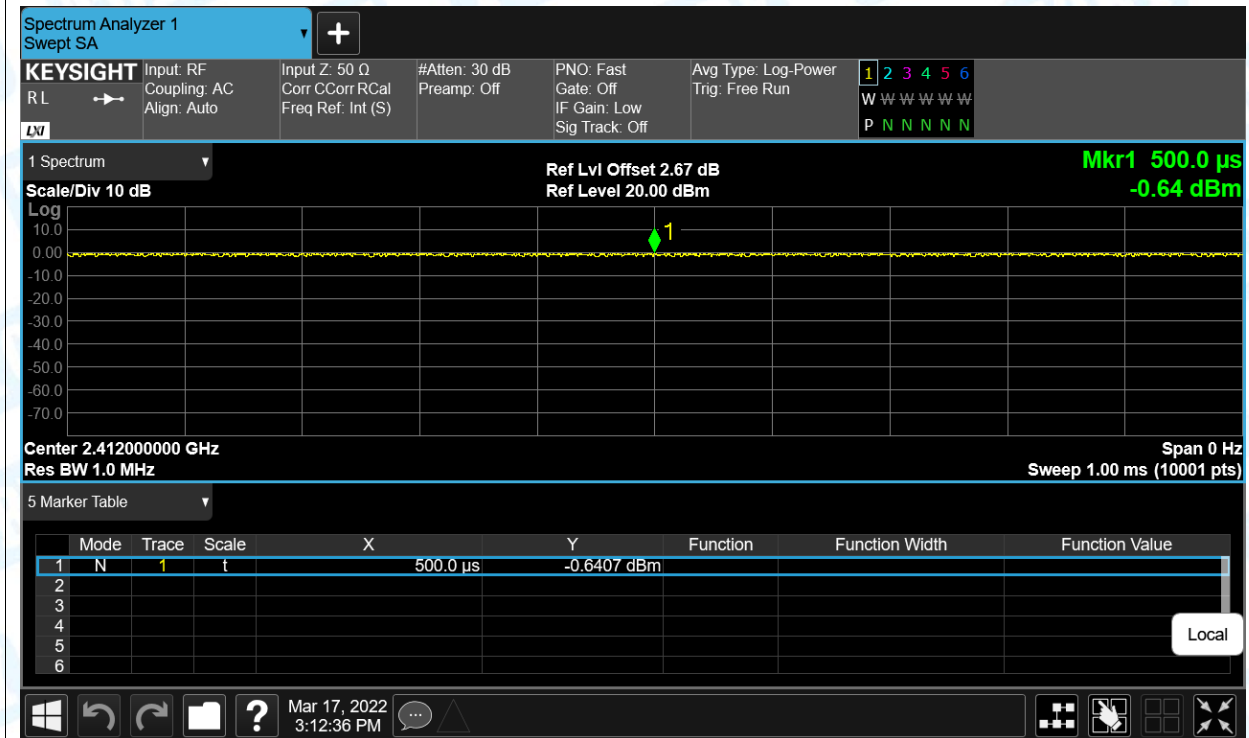
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1.Duty Cycle

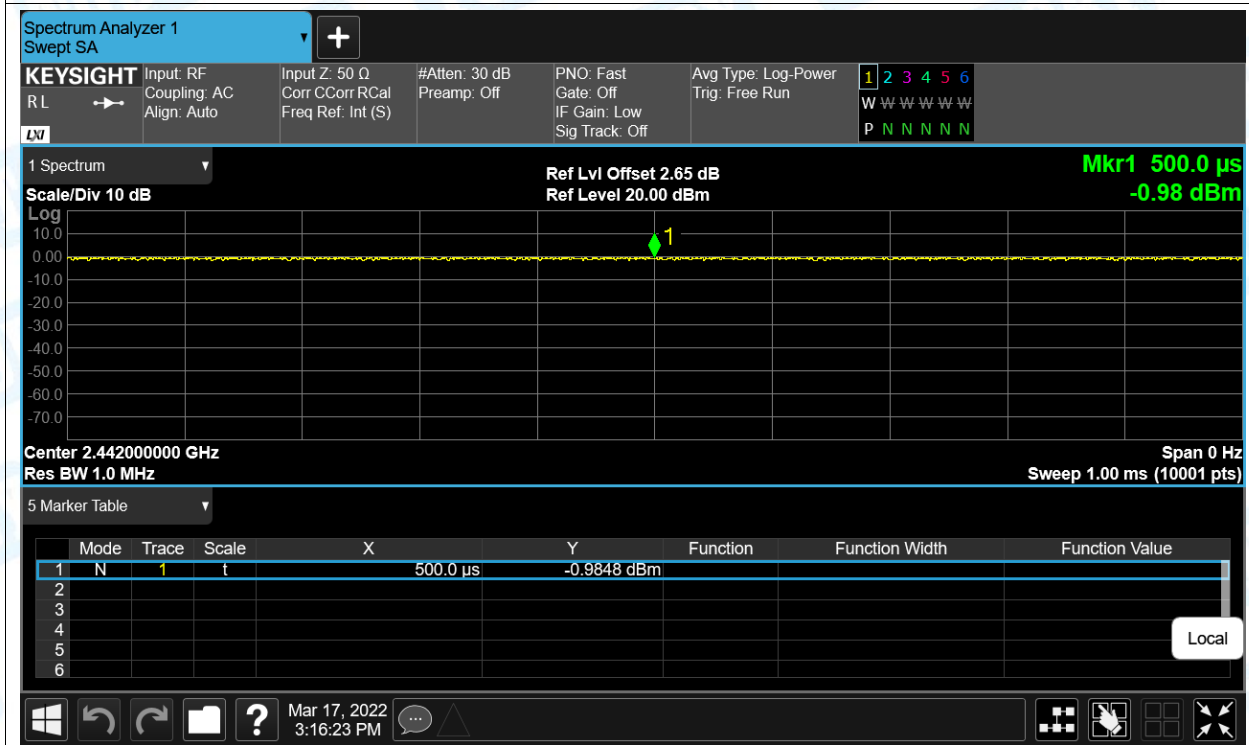
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2412	Ant1	100	0	0
NVNT	GFSK	2442	Ant1	100	0	0
NVNT	GFSK	2472	Ant1	100	0	0

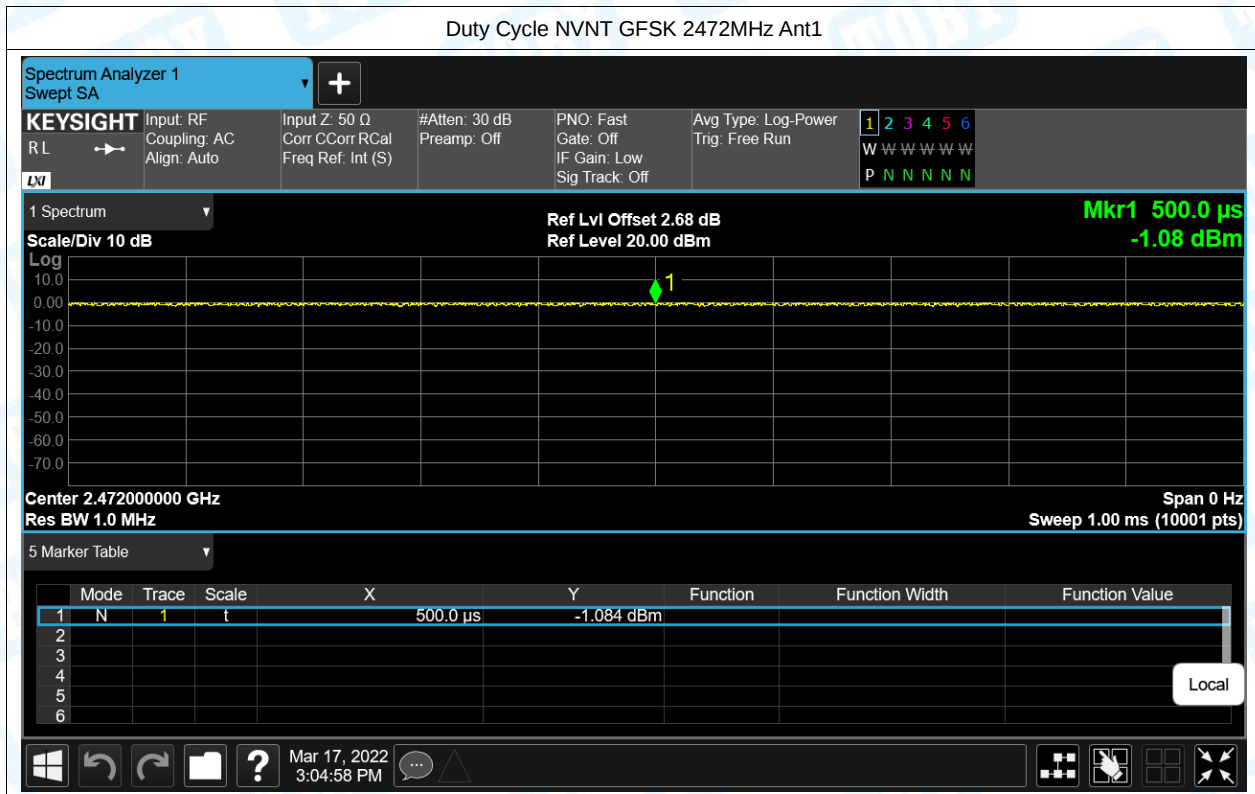
Test Graphs

Duty Cycle NVNT GFSK 2412MHz Ant1



Duty Cycle NVNT GFSK 2442MHz Ant1



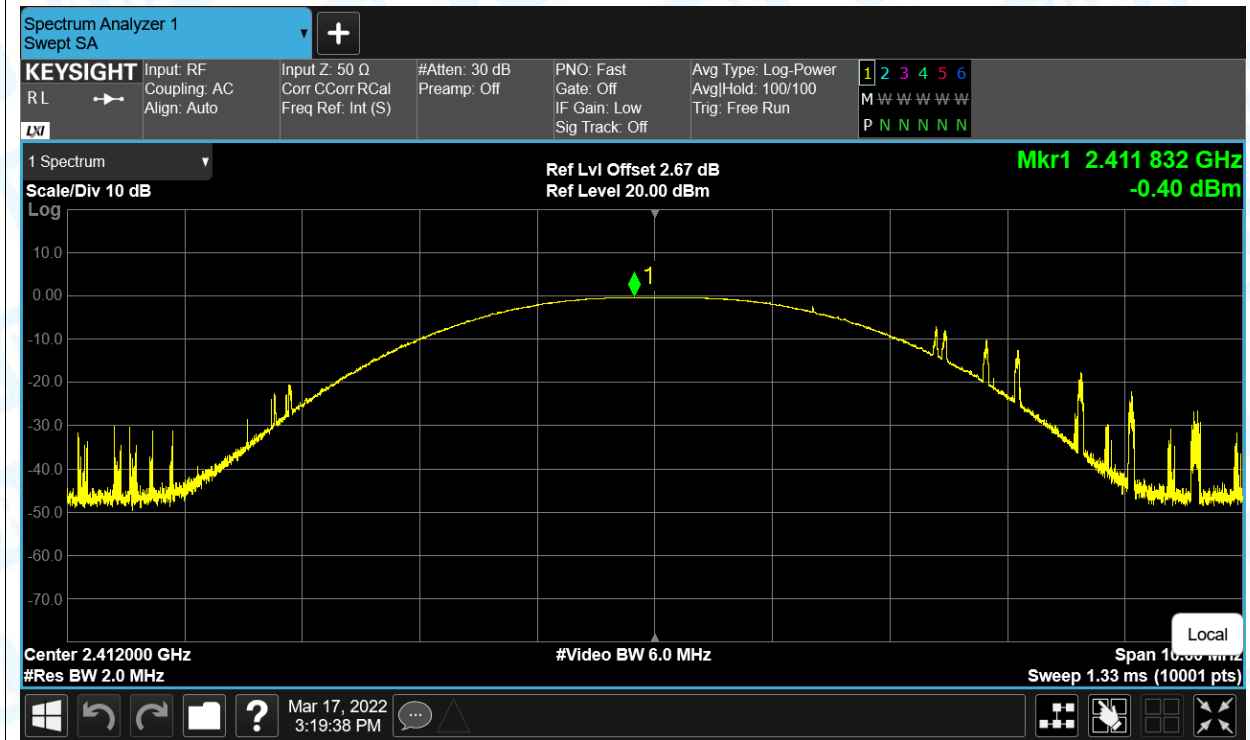


2.Maximum Conducted Output Power

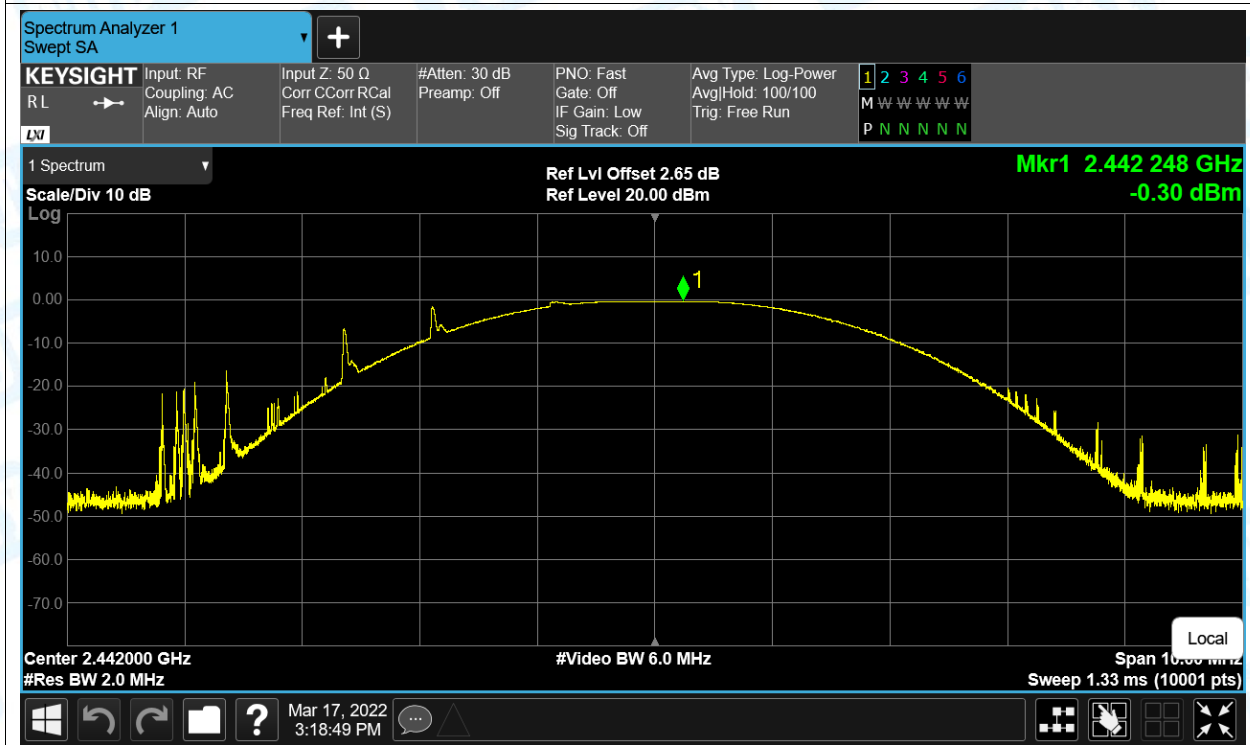
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2412	Ant1	-0.401	0	-0.401	30	Pass
NVNT	GFSK	2442	Ant1	-0.304	0	-0.304	30	Pass
NVNT	GFSK	2472	Ant1	-0.092	0	-0.092	30	Pass

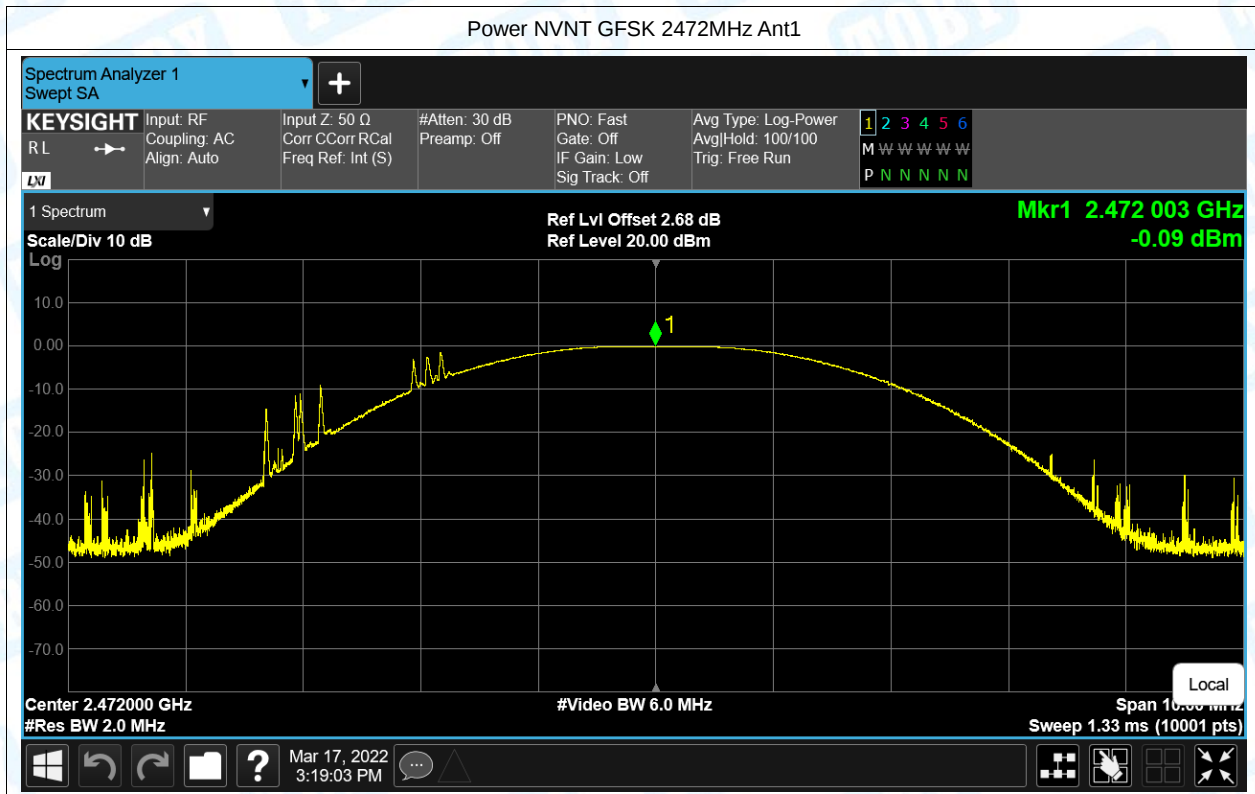
Test Graphs

Power NVNT GFSK 2412MHz Ant1



Power NVNT GFSK 2442MHz Ant1





3.-6dB Bandwidth

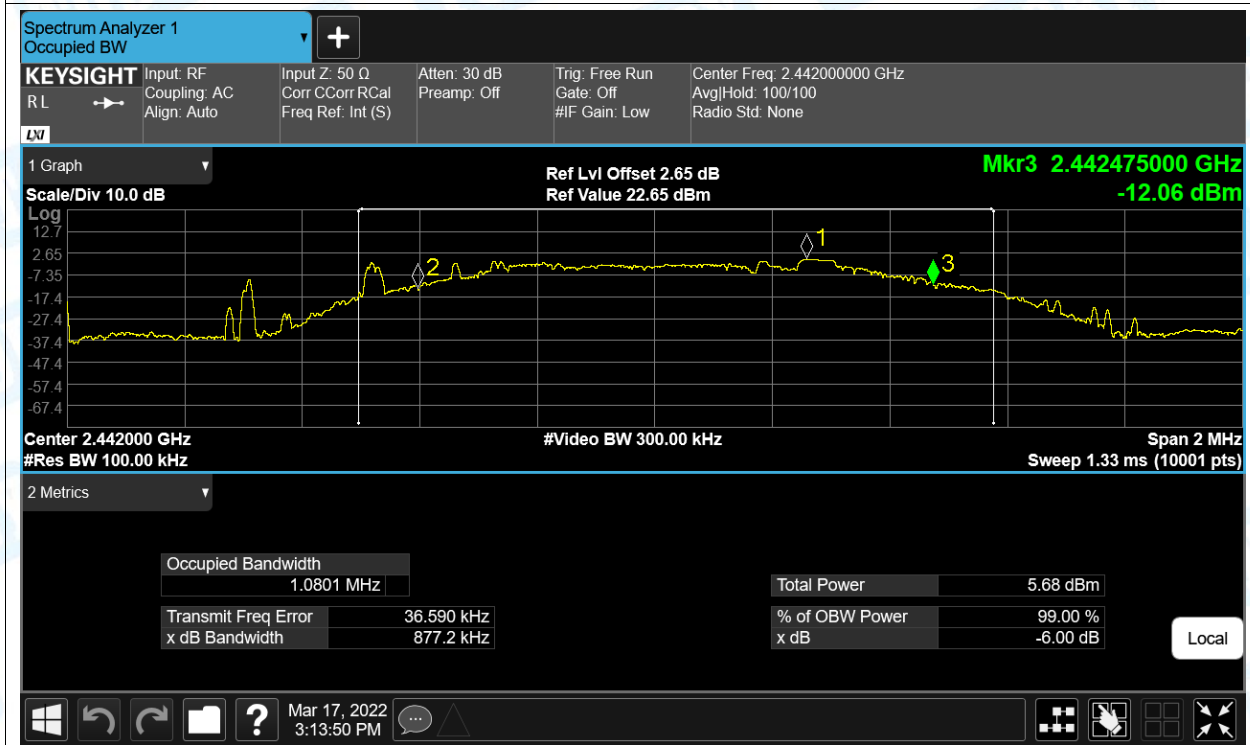
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2412	Ant1	0.68	0.5	Pass
NVNT	GFSK	2442	Ant1	0.88	0.5	Pass
NVNT	GFSK	2472	Ant1	0.7	0.5	Pass

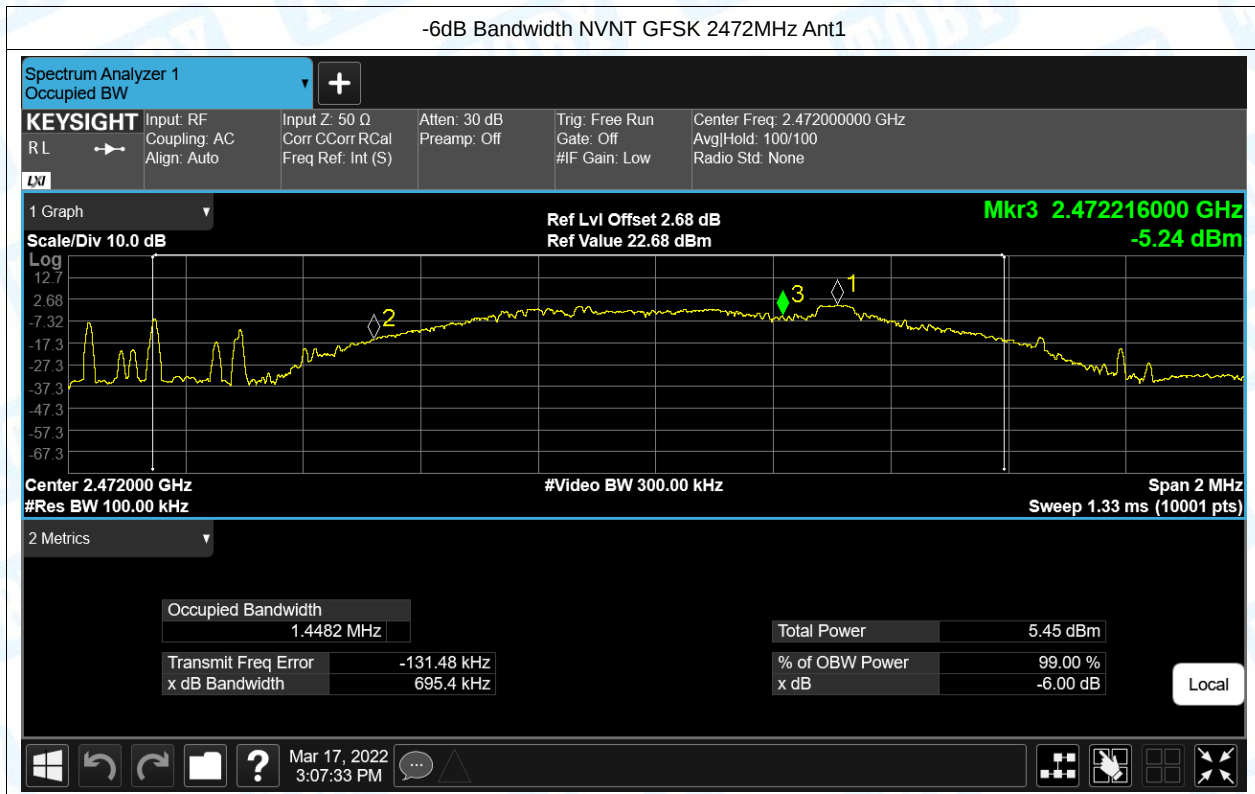
Test Graphs

-6dB Bandwidth NVNT GFSK 2412MHz Ant1



-6dB Bandwidth NVNT GFSK 2442MHz Ant1



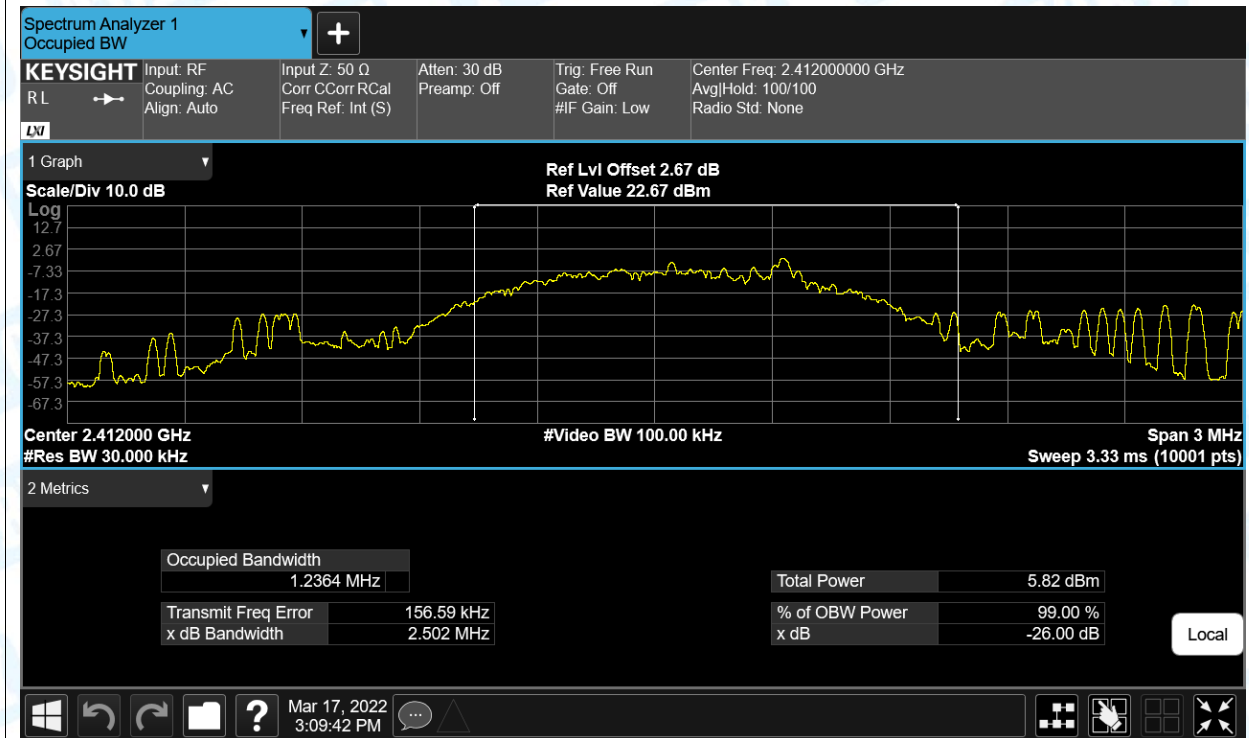


4.Occupied Channel Bandwidth

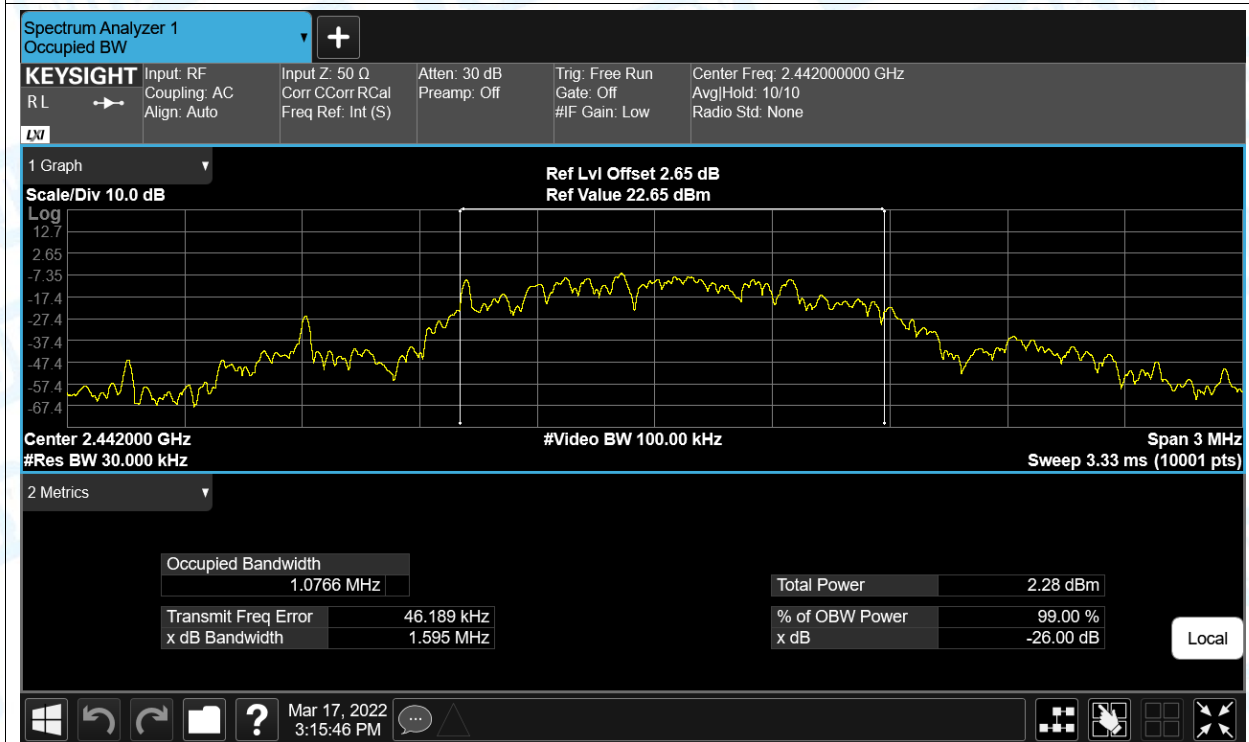
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2412	Ant1	1.236
NVNT	GFSK	2442	Ant1	1.077
NVNT	GFSK	2472	Ant1	1.438

Test Graphs

OBW NVNT GFSK 2412MHz Ant1



OBW NVNT GFSK 2442MHz Ant1



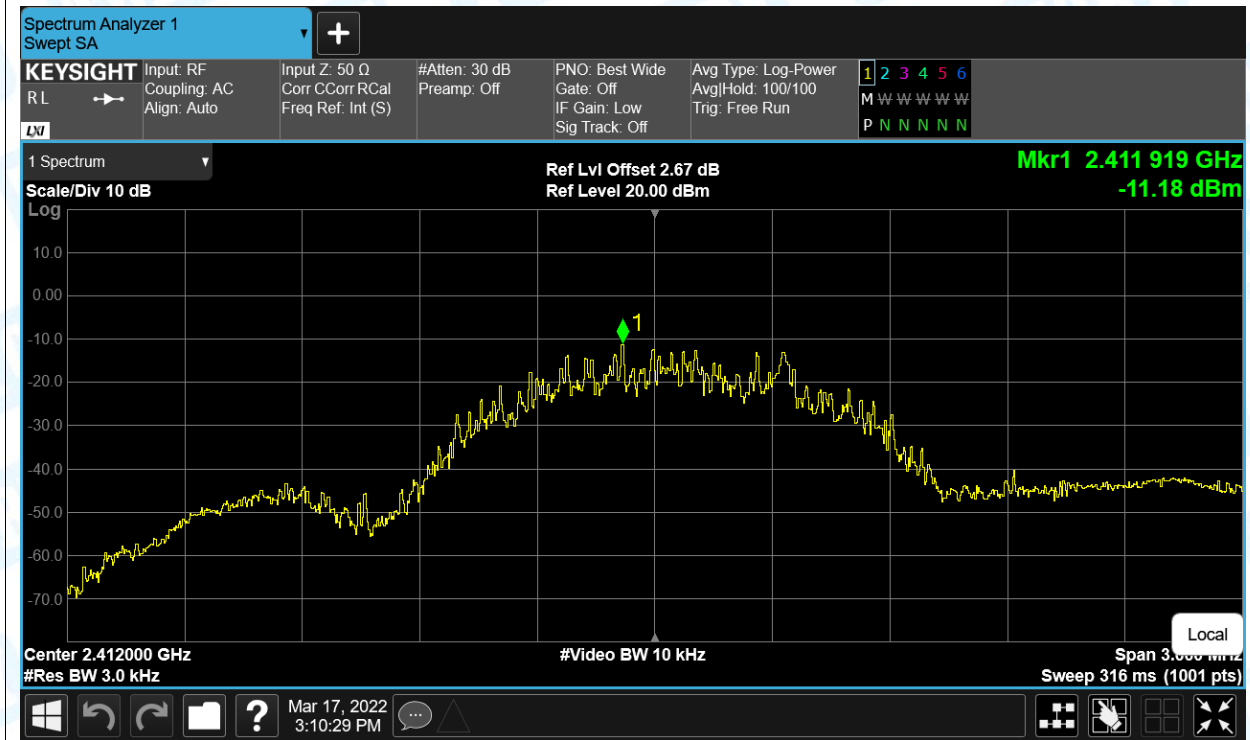


5.Maximum Power Spectral Density Level

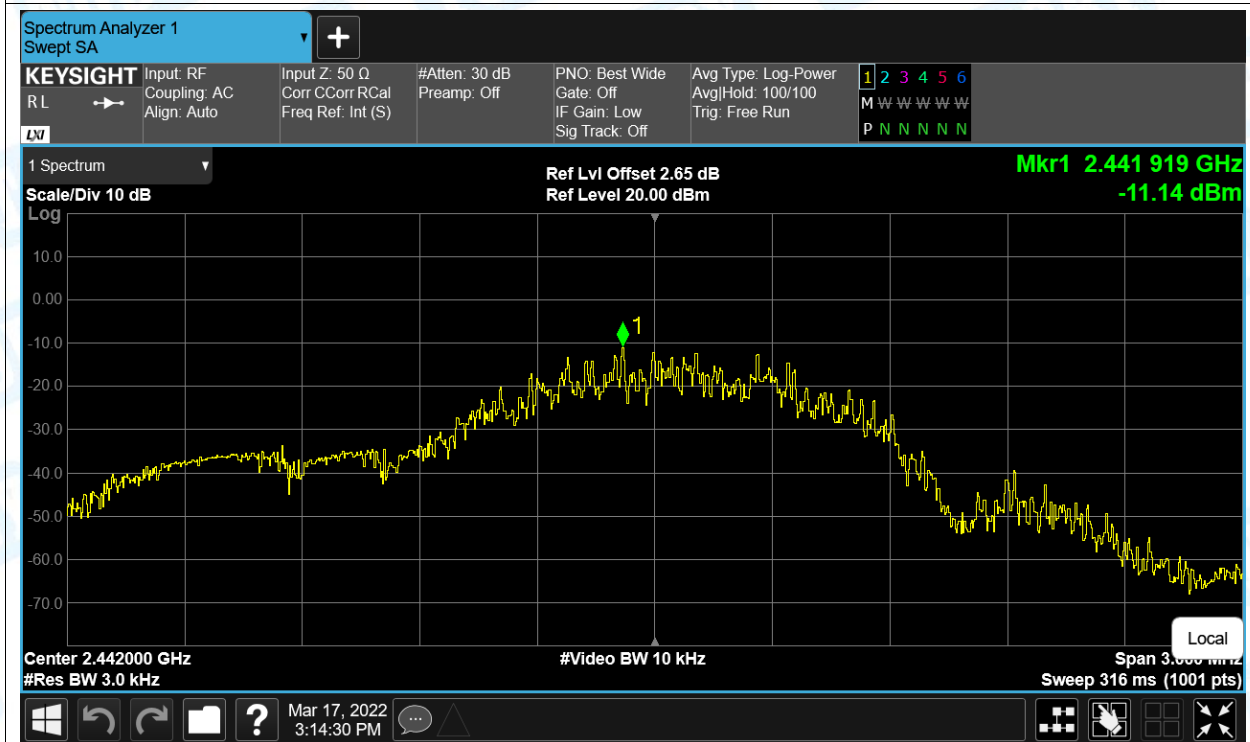
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2412	Ant1	-11.176	8	Pass
NVNT	GFSK	2442	Ant1	-11.144	8	Pass
NVNT	GFSK	2472	Ant1	-11.091	8	Pass

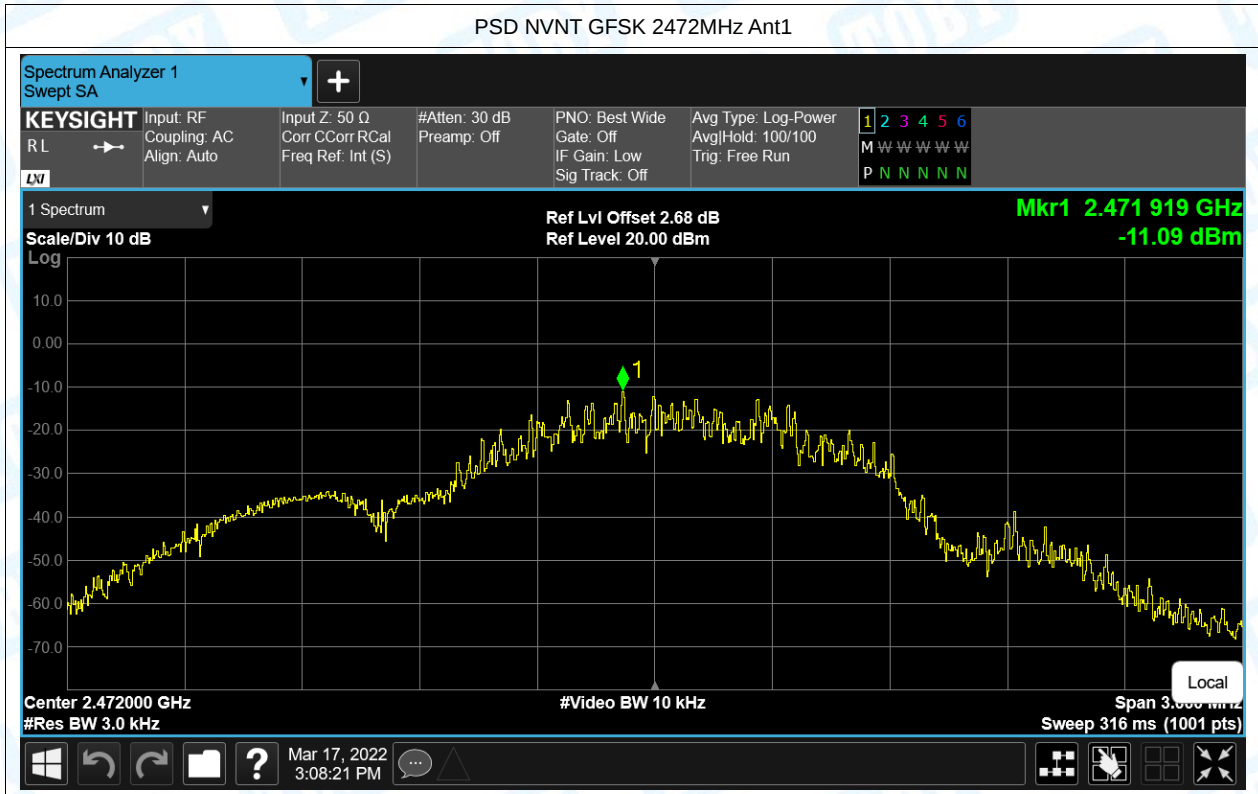
Test Graphs

PSD NVNT GFSK 2412MHz Ant1



PSD NVNT GFSK 2442MHz Ant1



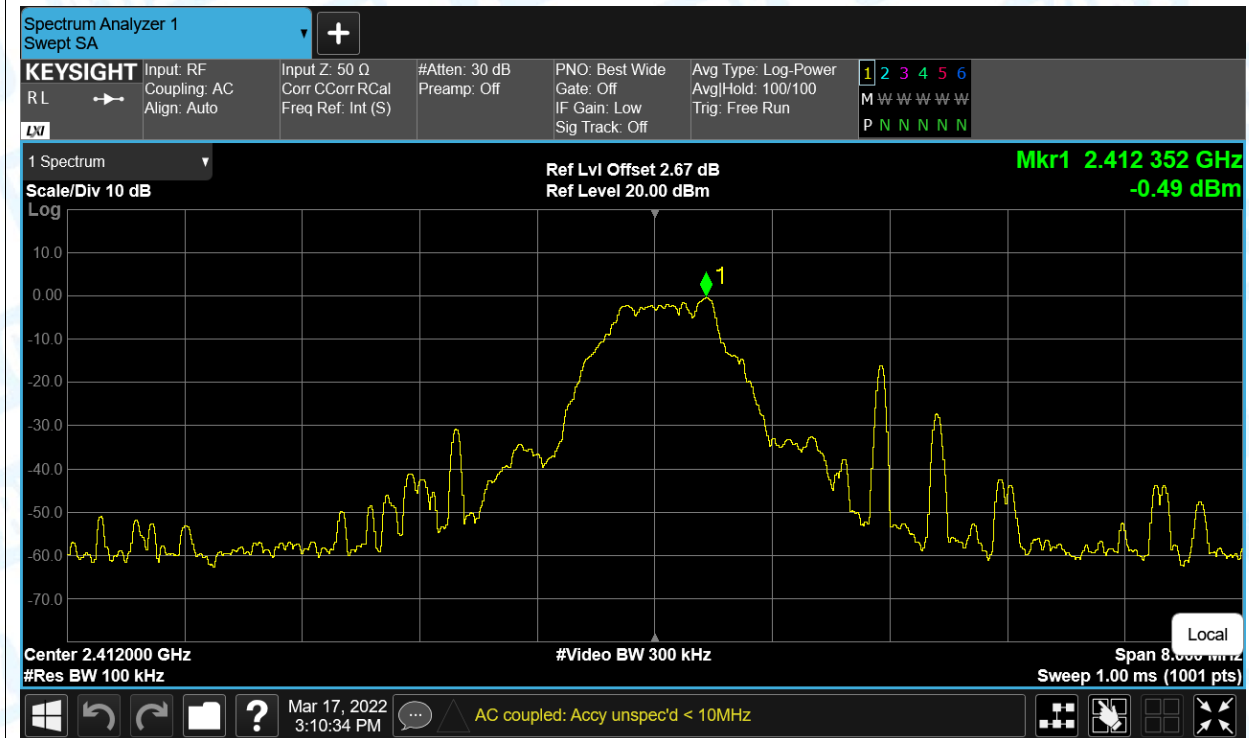


6.Band Edge

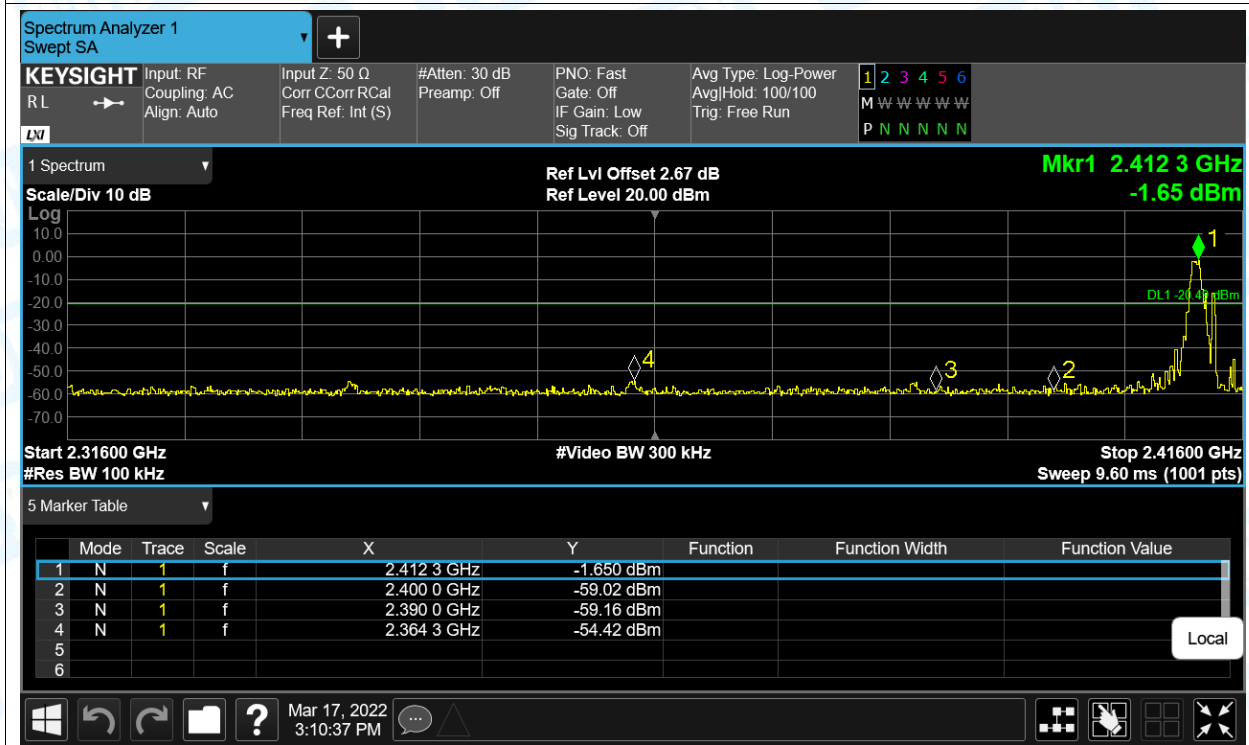
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2412	Ant1	-53.93	-20	Pass
NVNT	GFSK	2472	Ant1	-49.35	-20	Pass

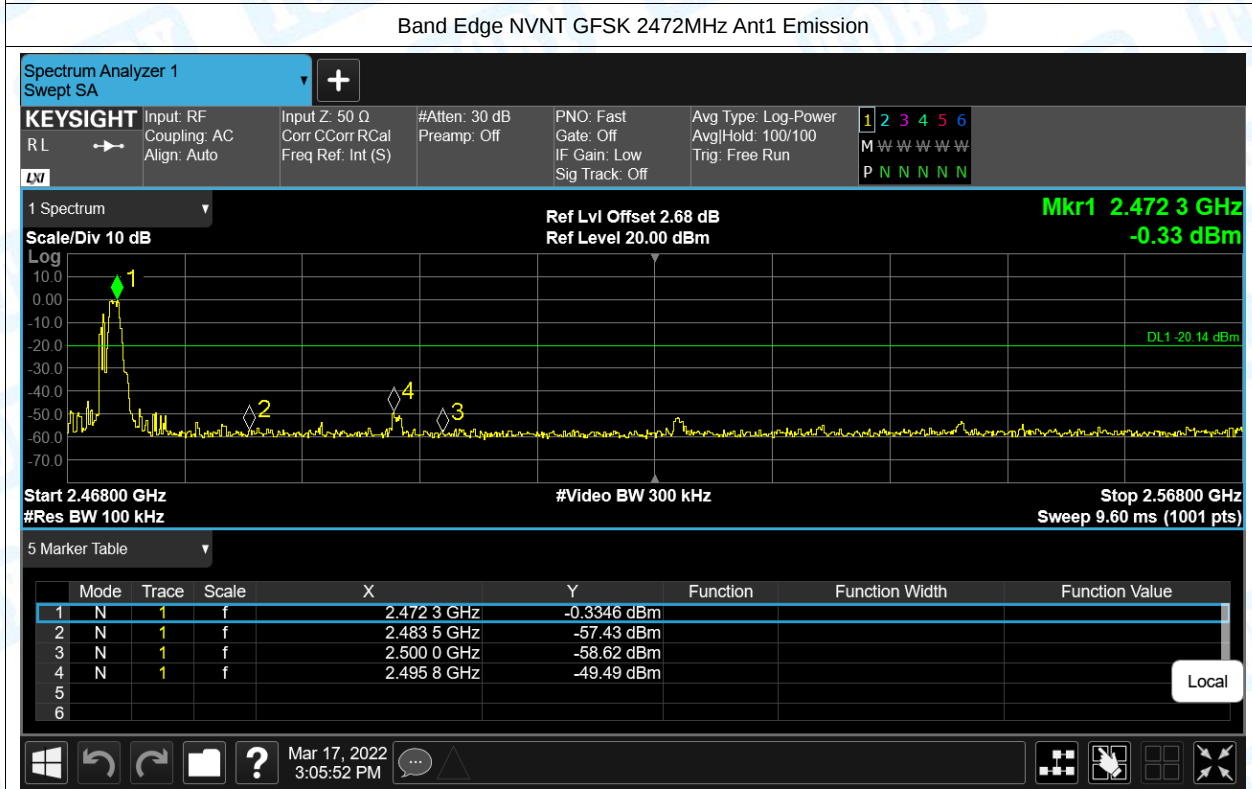
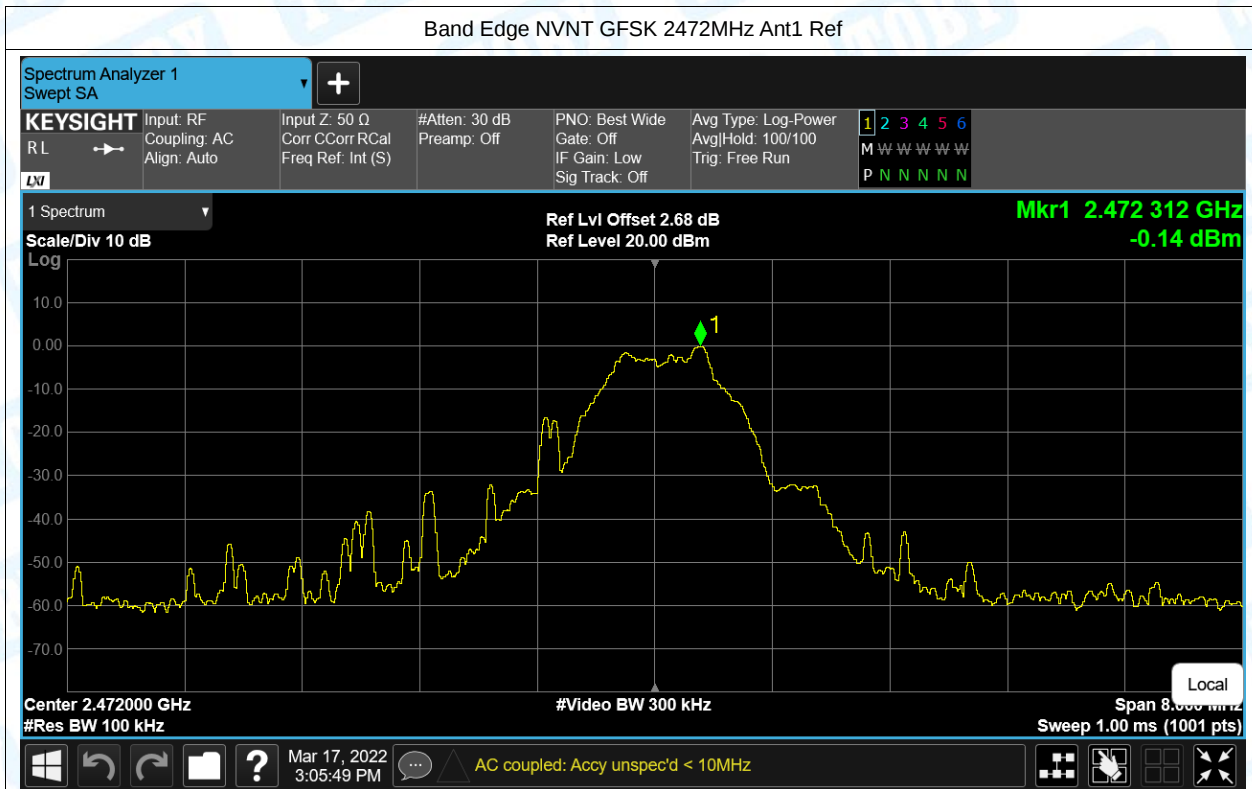
Test Graphs

Band Edge NVNT GFSK 2412MHz Ant1 Ref



Band Edge NVNT GFSK 2412MHz Ant1 Emission





7.Conducted RF Spurious Emission

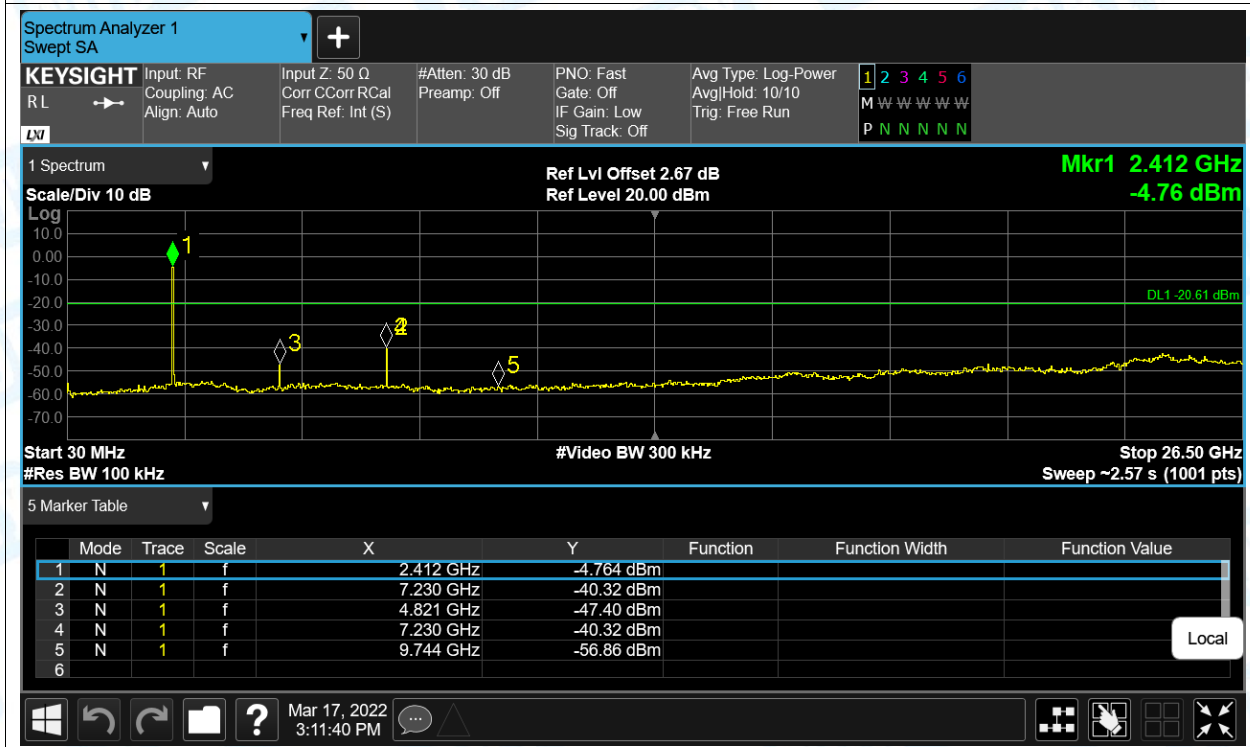
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2412	Ant1	-39.71	-20	Pass
NVNT	GFSK	2442	Ant1	-39.51	-20	Pass
NVNT	GFSK	2472	Ant1	-40.3	-20	Pass

Test Graphs

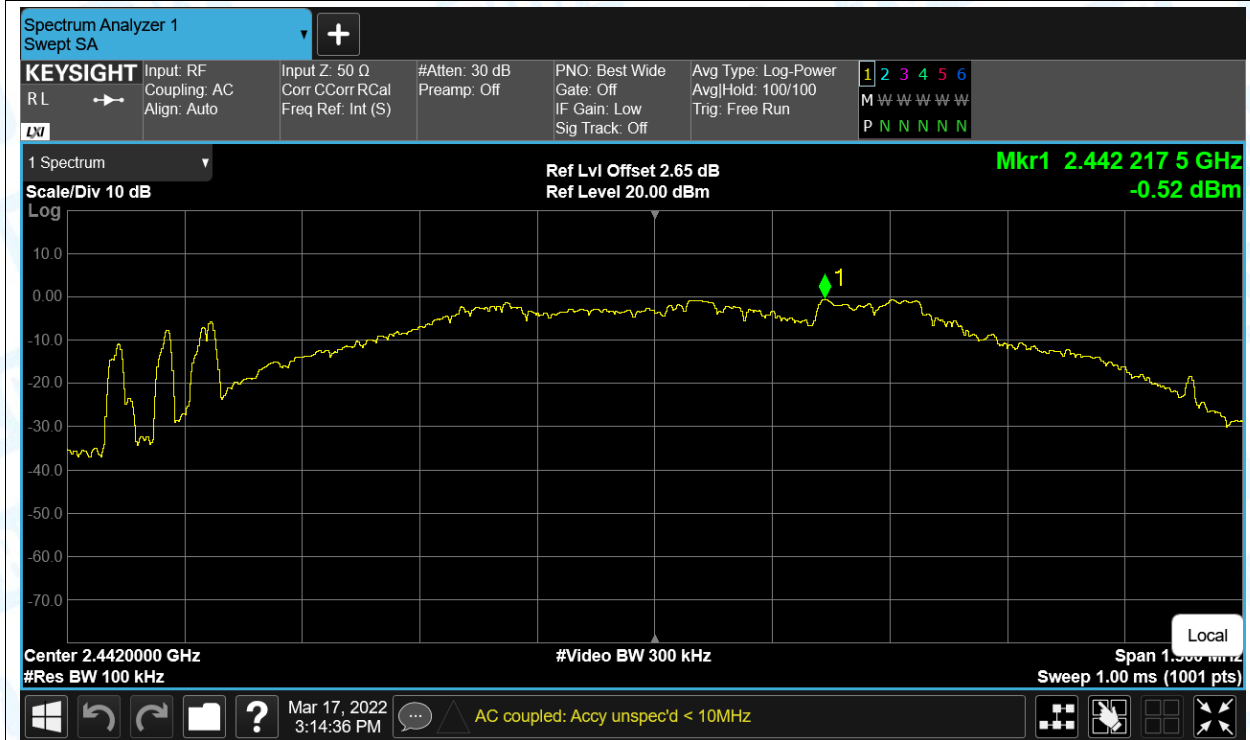
Tx. Spurious NVNT GFSK 2412MHz Ant1 Ref



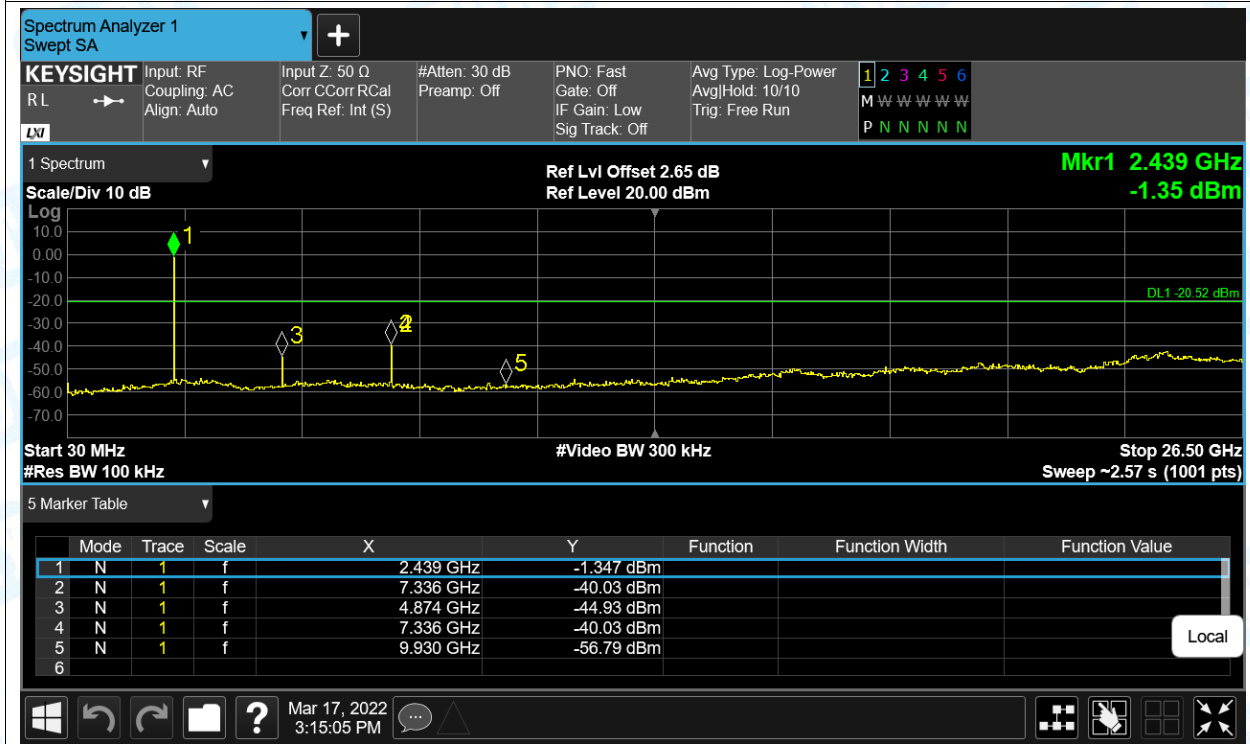
Tx. Spurious NVNT GFSK 2412MHz Ant1 Emission

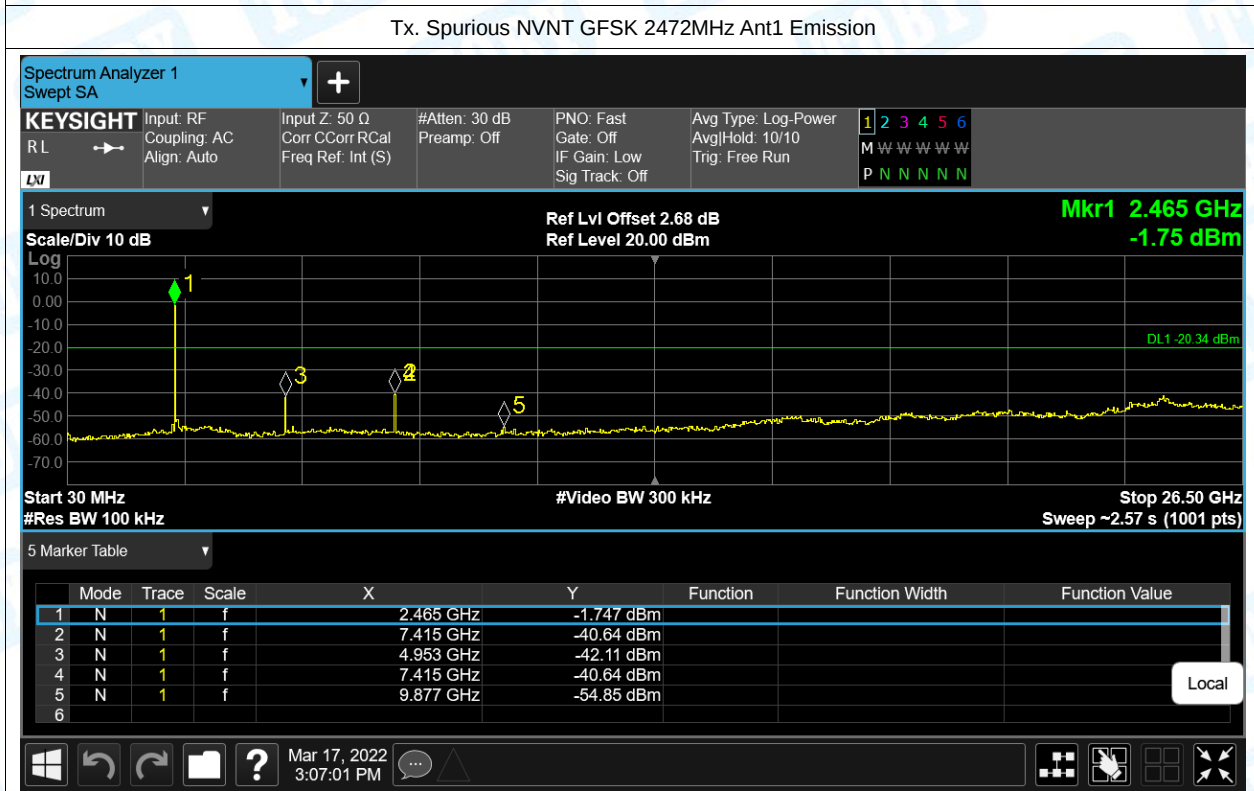
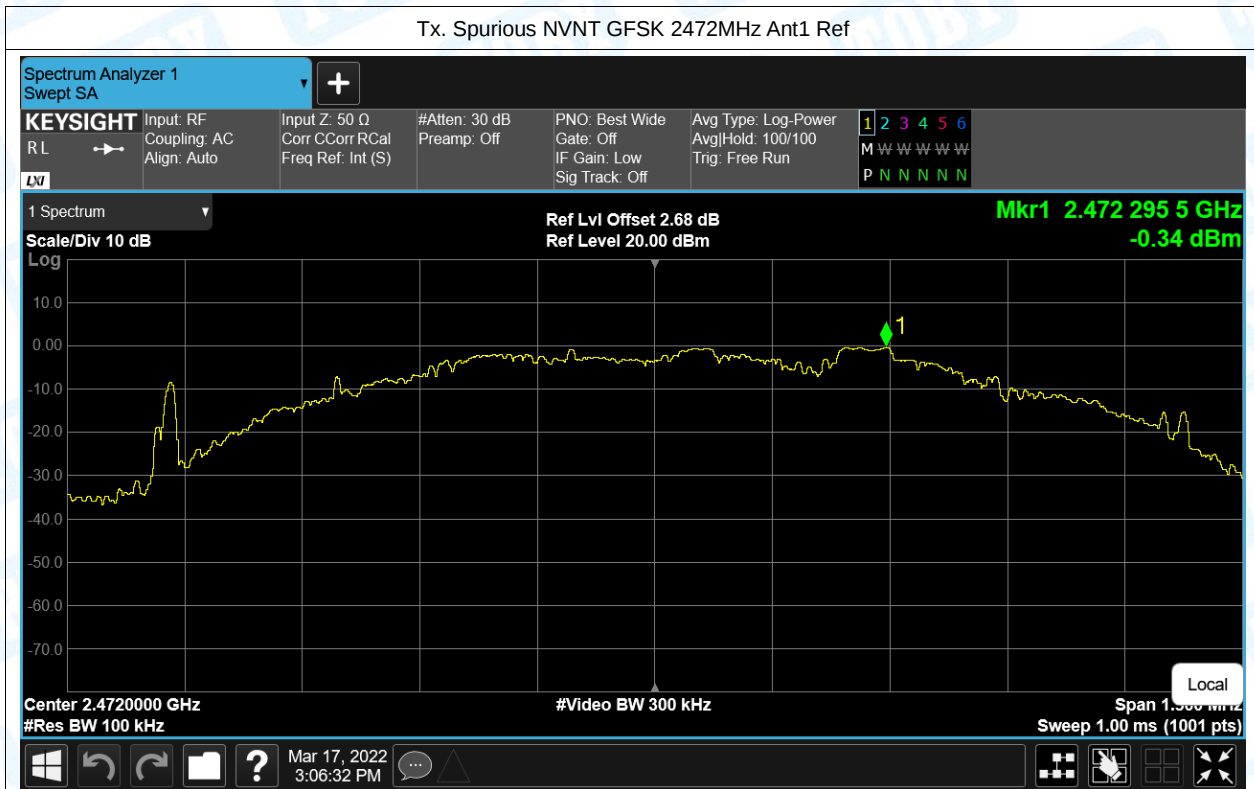


Tx. Spurious NVNT GFSK 2442MHz Ant1 Ref



Tx. Spurious NVNT GFSK 2442MHz Ant1 Emission



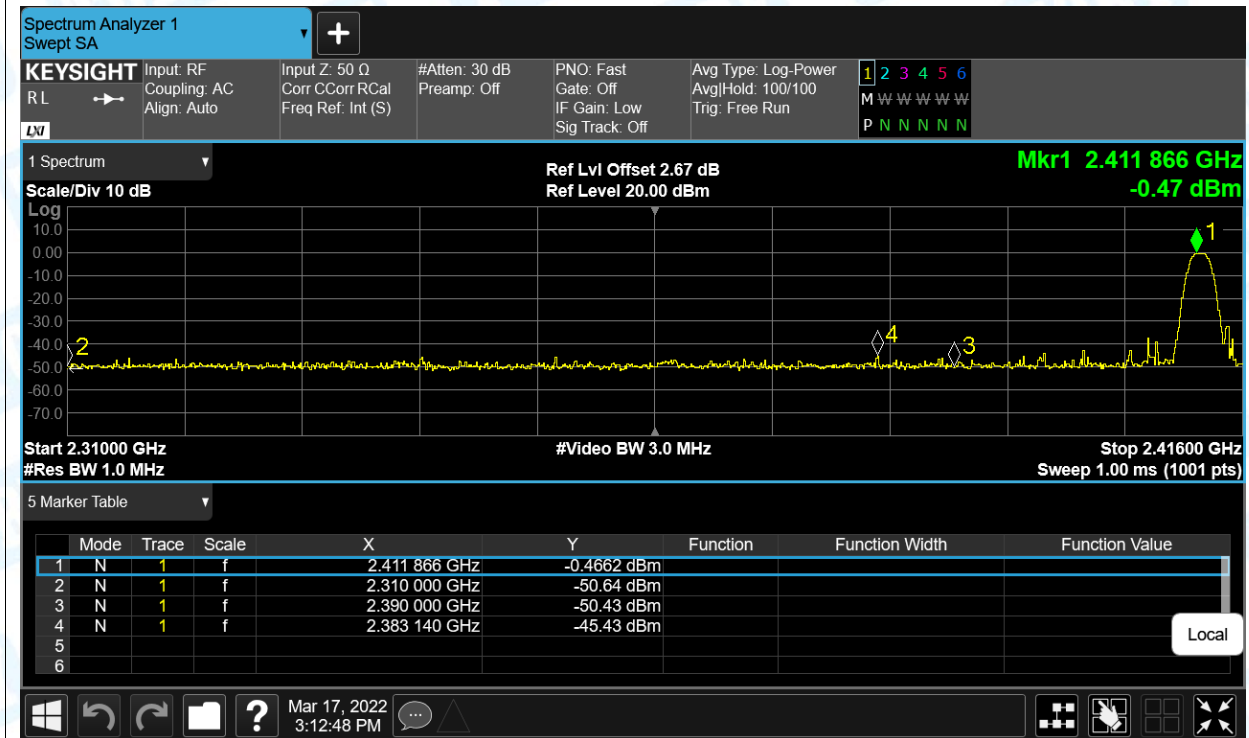


8.Restrict Band

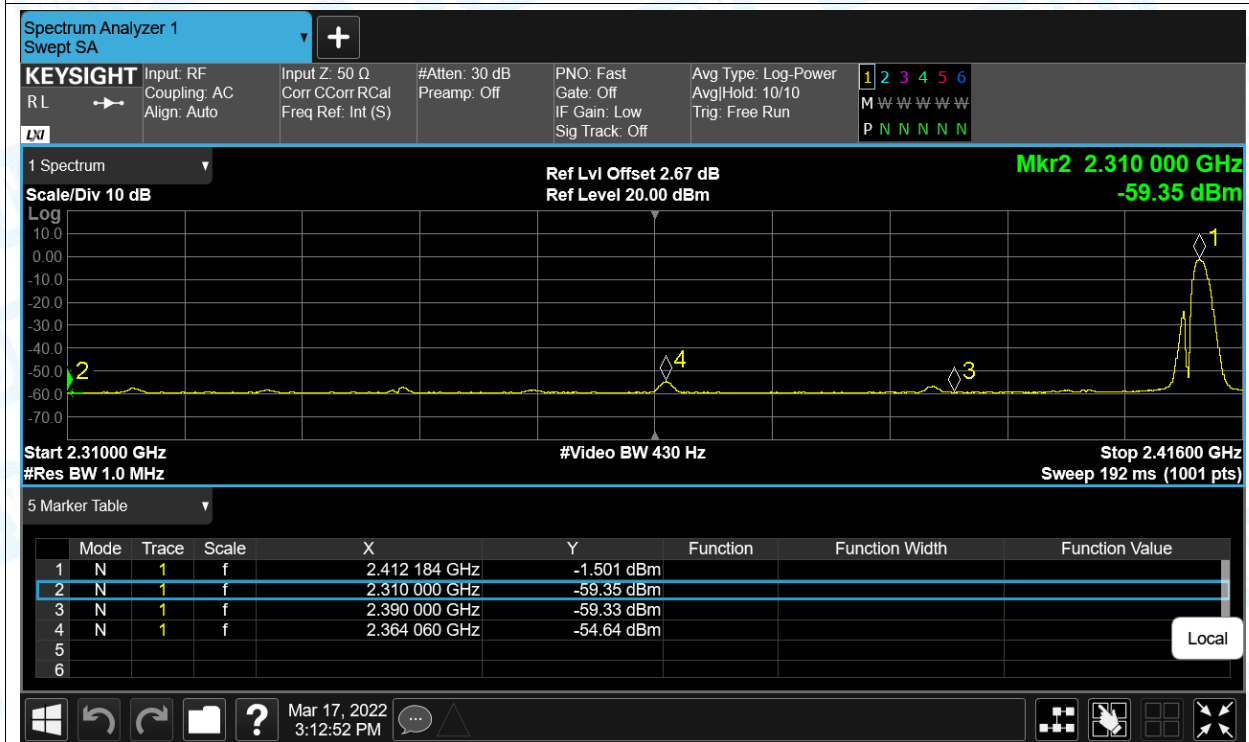
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2412	Ant1	2310	-50.64	2	46.62	Peak	74	Pass
NVNT	GFSK	2412	Ant1	2310	-59.35	2	37.91	Average	54	Pass
NVNT	GFSK	2412	Ant1	2383.14	-45.43	2	51.83	Peak	74	Pass
NVNT	GFSK	2412	Ant1	2364.06	-54.64	2	42.62	Average	54	Pass
NVNT	GFSK	2412	Ant1	2390	-50.43	2	46.83	Peak	74	Pass
NVNT	GFSK	2412	Ant1	2390	-59.33	2	37.93	Average	54	Pass
NVNT	GFSK	2472	Ant1	2483.5	-49.22	2	48.04	Peak	74	Pass
NVNT	GFSK	2472	Ant1	2483.5	-59.1	2	38.16	Average	54	Pass
NVNT	GFSK	2472	Ant1	2490.272	-42.01	2	55.25	Peak	74	Pass
NVNT	GFSK	2472	Ant1	2496.032	-55.82	2	41.44	Average	54	Pass
NVNT	GFSK	2472	Ant1	2500	-49.8	2	47.46	Peak	74	Pass
NVNT	GFSK	2472	Ant1	2500	-59.36	2	37.9	Average	54	Pass

Test Graphs

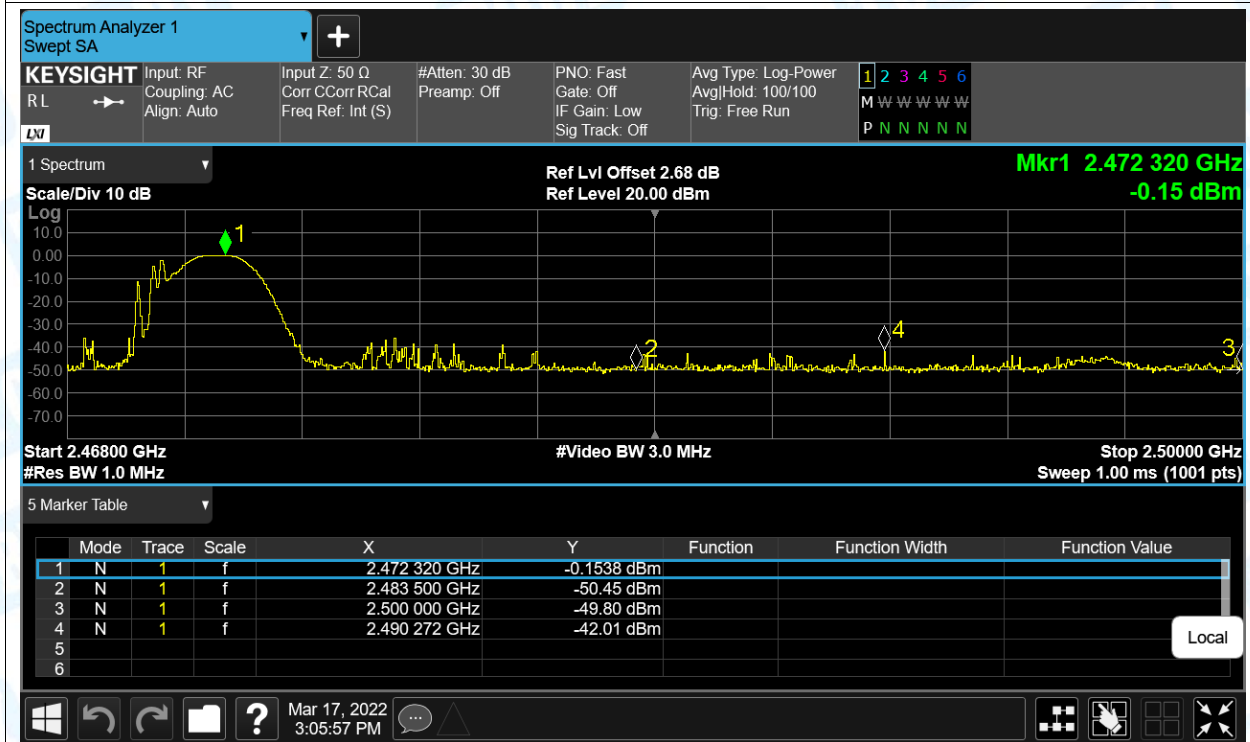
Restrict Band NVNT GFSK 2412MHz Ant1 Peak



Restrict Band NVNT GFSK 2412MHz Ant1 Average



Restrict Band NVNT GFSK 2472MHz Ant1 Peak



Restrict Band NVNT GFSK 2472MHz Ant1 Average

