

Appendix A

RF Test Data for Zigbee (Conducted Measurement)

Product Name: Curtain motor Doodle ZIGBEE Charging Model

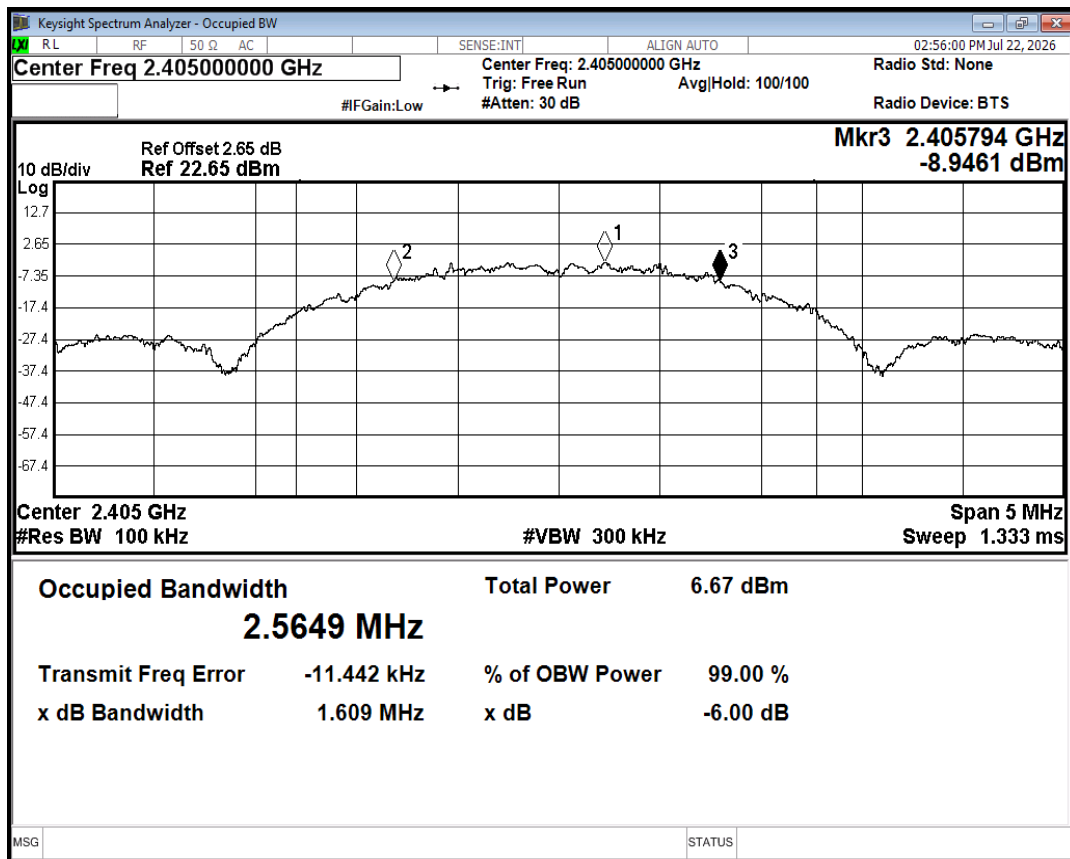
Test Model: ADCBZI02

Environmental Conditions

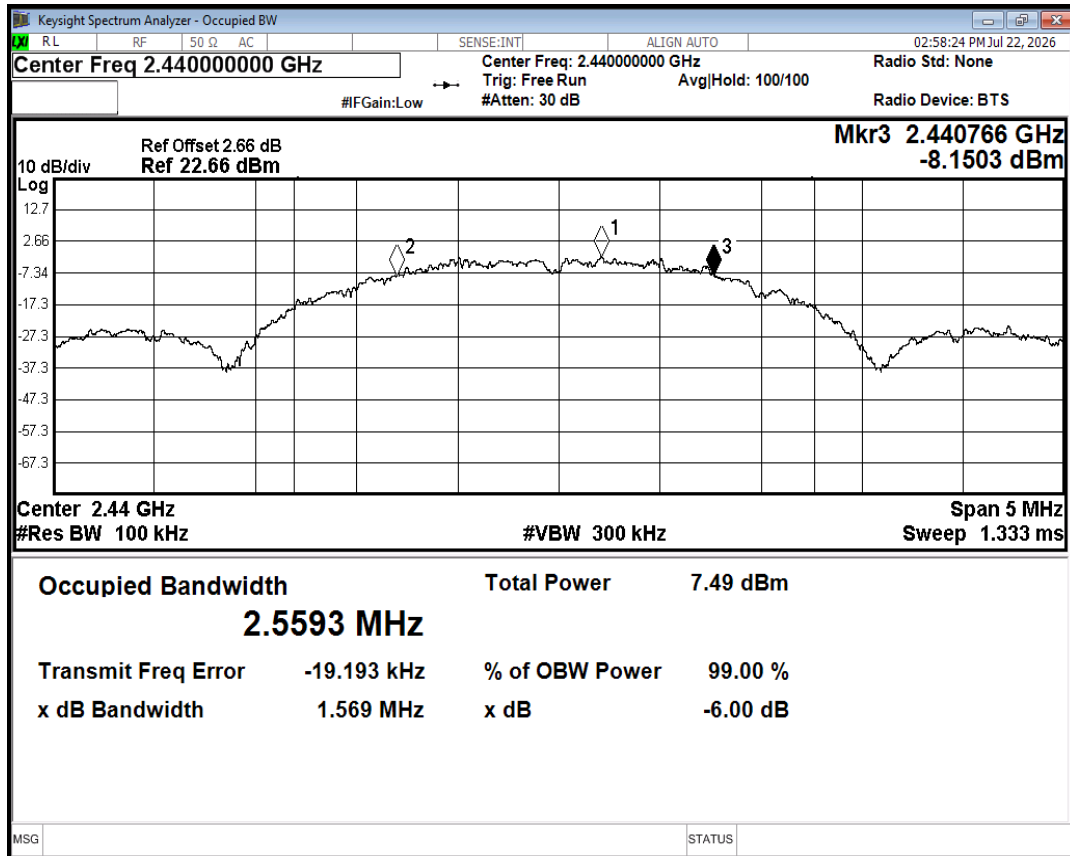
Temperature:	24.3°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

A.1 -6dB Bandwidth

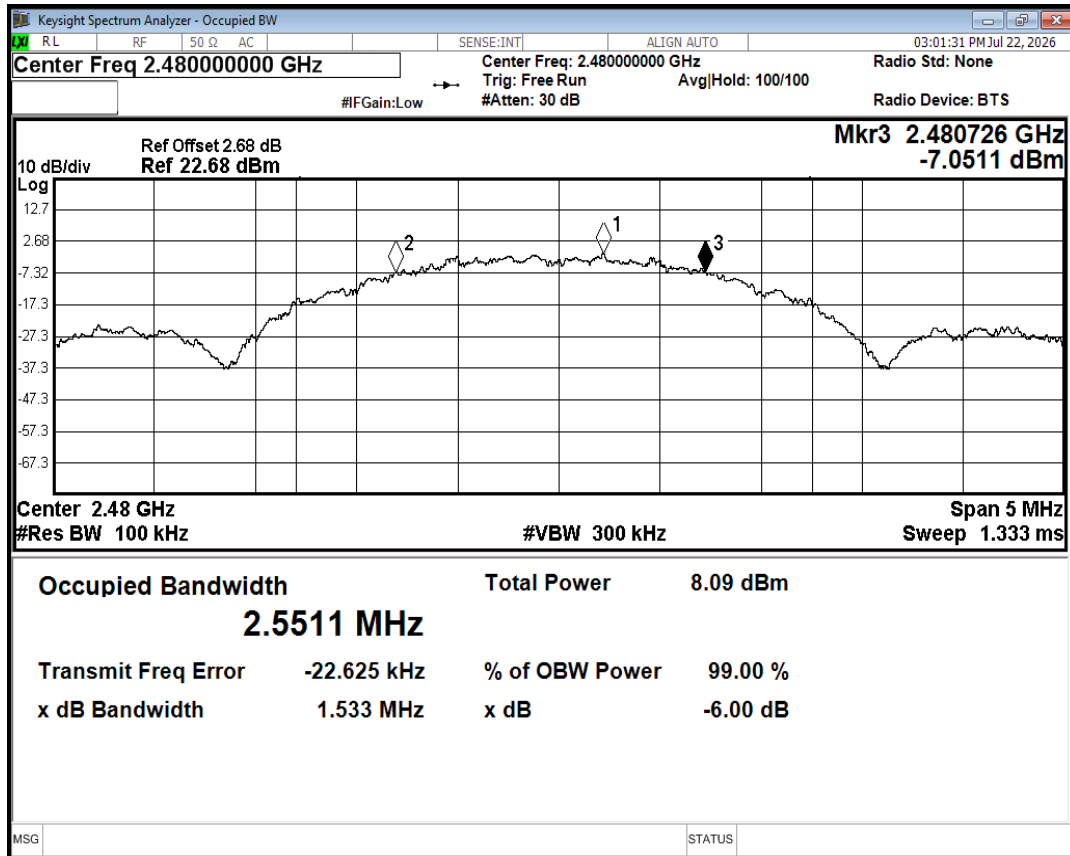
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	Zigbee	2405	Ant1	1.609	0.5	Pass
NVNT	Zigbee	2440	Ant1	1.569	0.5	Pass
NVNT	Zigbee	2480	Ant1	1.533	0.5	Pass



-6dB Bandwidth NVNT Zigbee 2405MHz Ant1



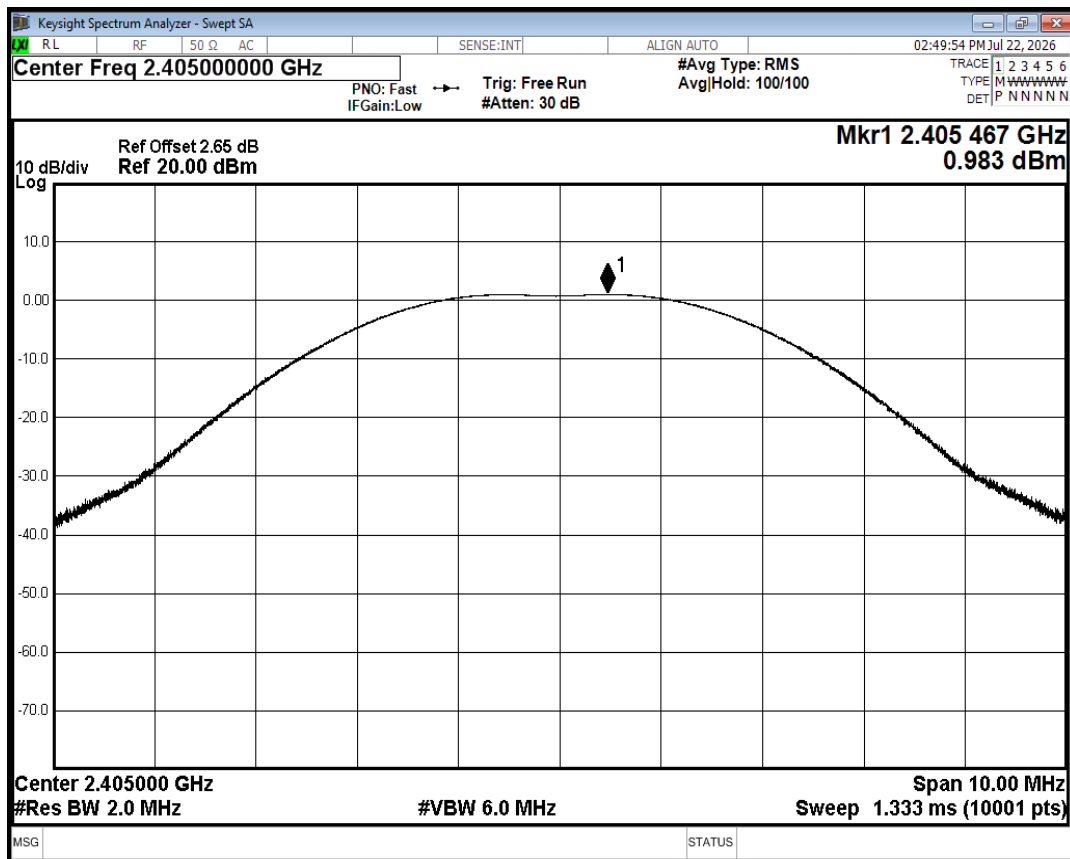
-6dB Bandwidth NVNT Zigbee 2440MHz Ant1



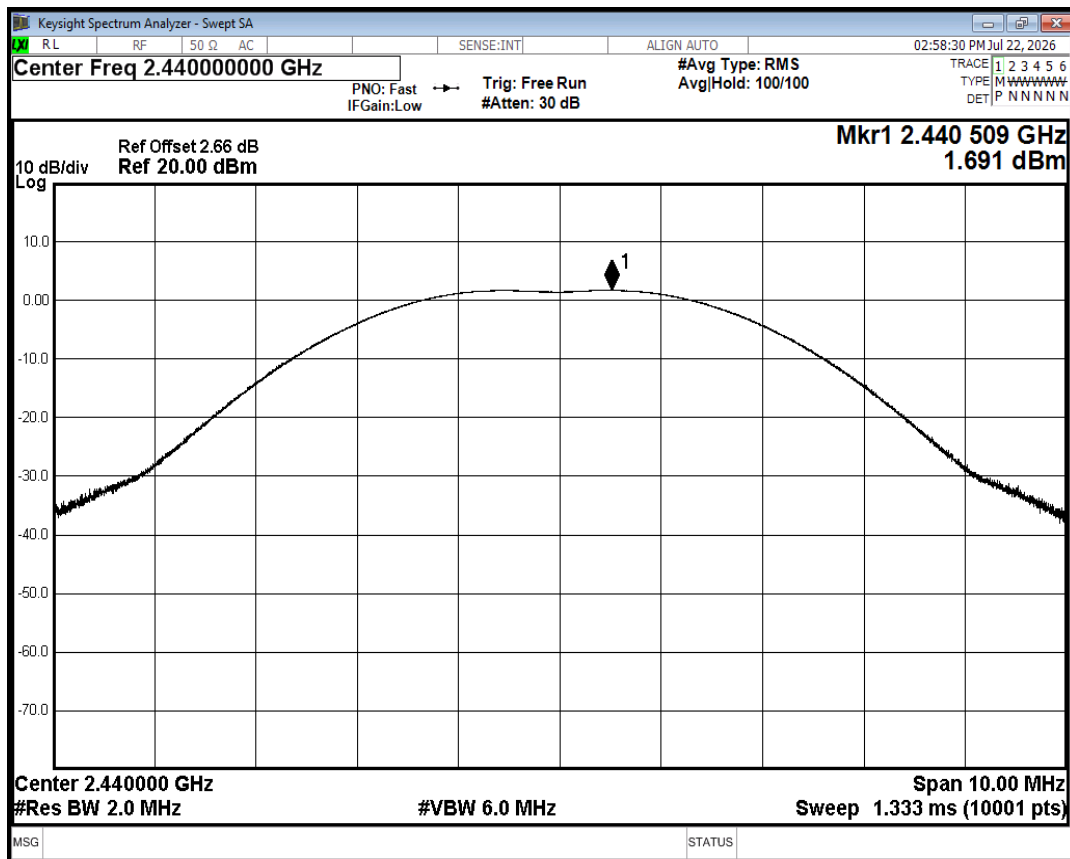
-6dB Bandwidth NVNT Zigbee 2480MHz Ant1

A.2 Maximum Peak Conducted Output Power

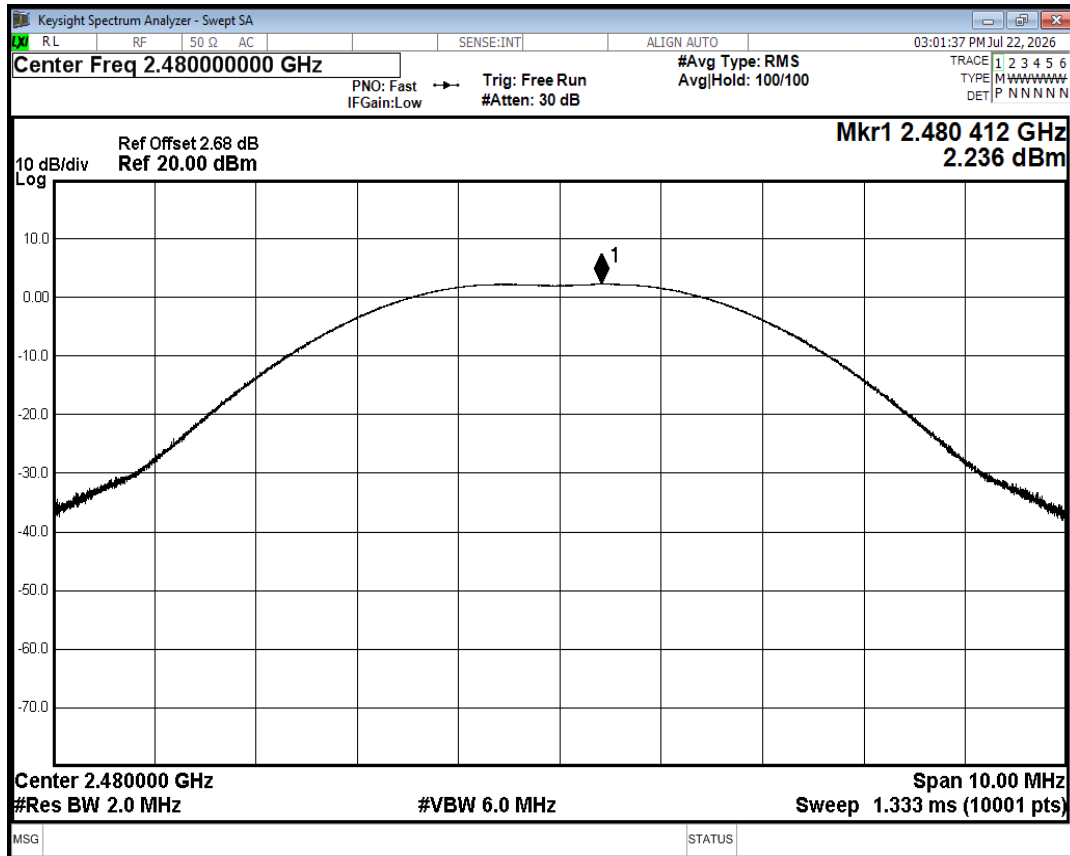
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	Zigbee	2405	Ant1	0.98	30	Pass
NVNT	Zigbee	2440	Ant1	1.69	30	Pass
NVNT	Zigbee	2480	Ant1	2.24	30	Pass



Peak Power NVNT Zigbee 2405MHz Ant1



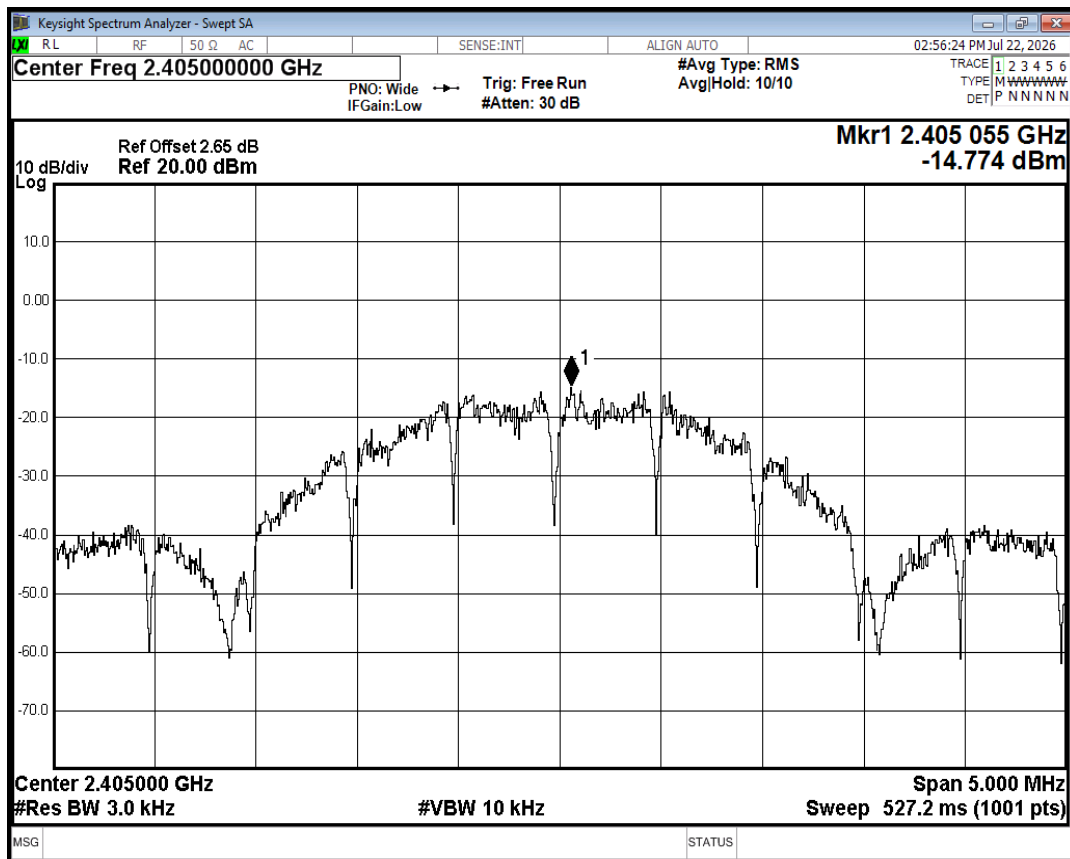
Peak Power NVNT Zigbee 2440MHz Ant1



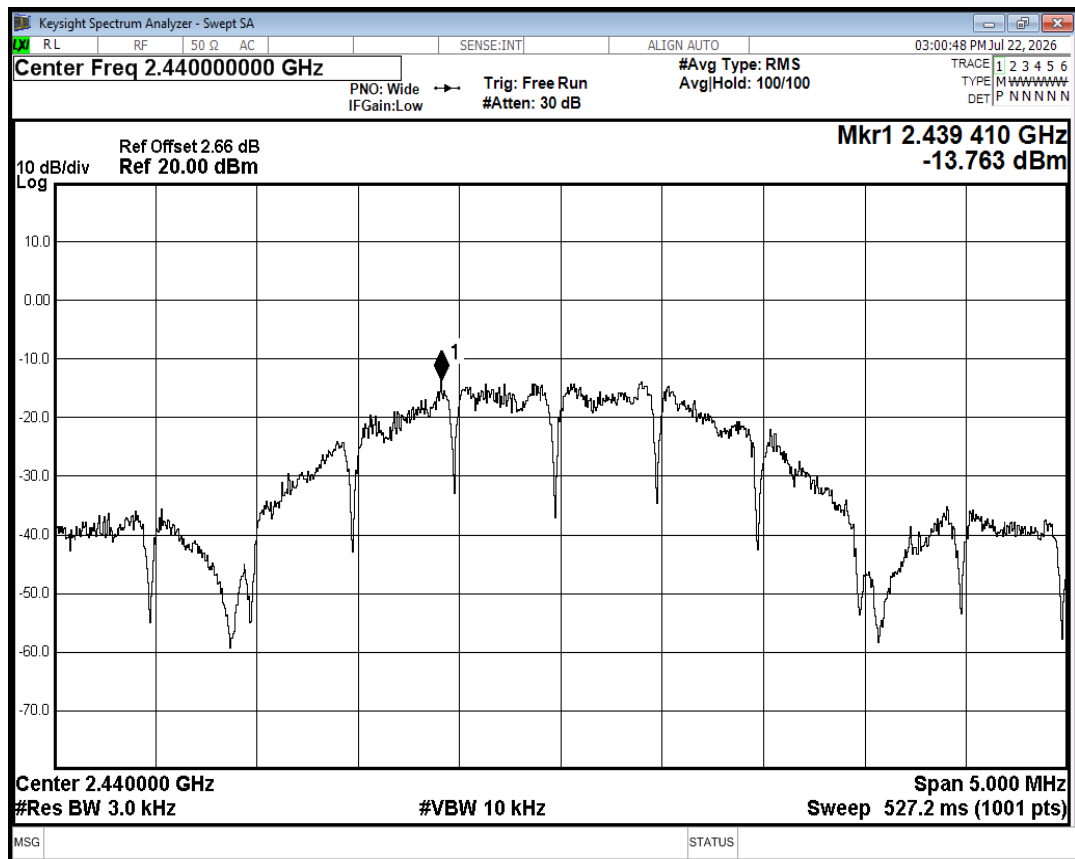
Peak Power NVNT Zigbee 2480MHz Ant1

A.3 Maximum Power Spectral Density Level

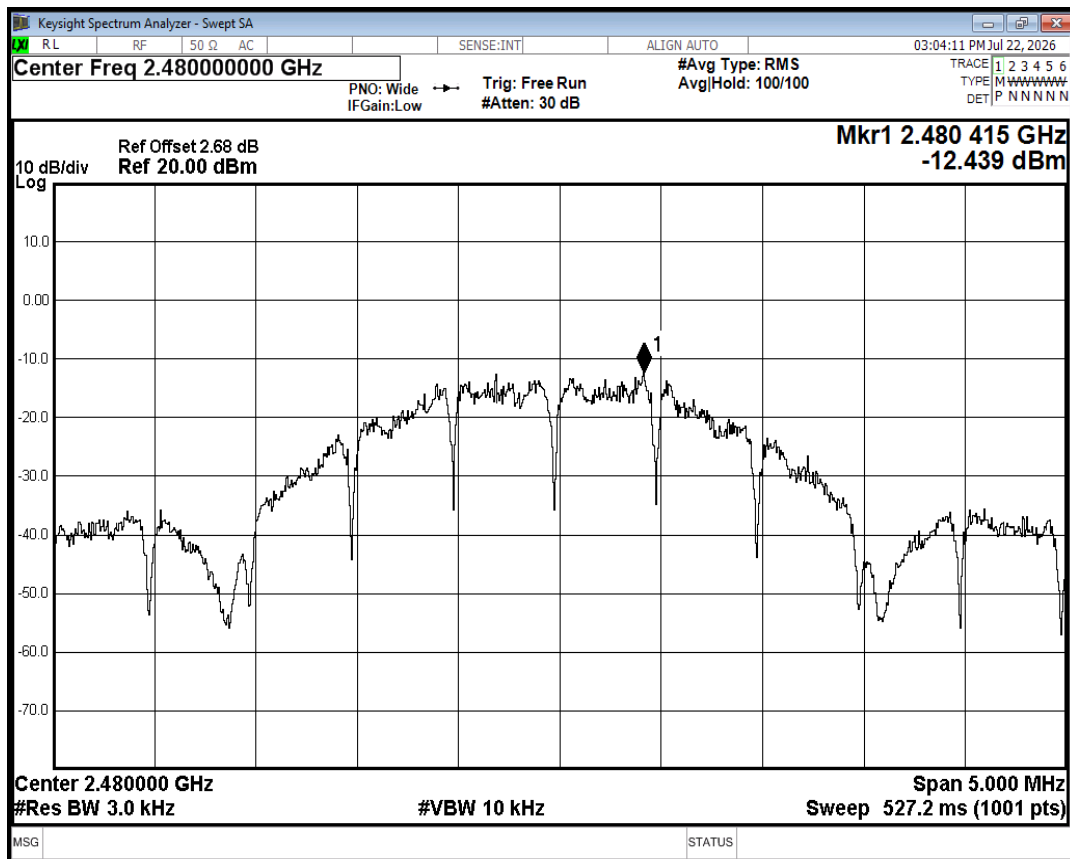
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	Zigbee	2405	Ant1	-14.77	8	Pass
NVNT	Zigbee	2440	Ant1	-13.76	8	Pass
NVNT	Zigbee	2480	Ant1	-12.44	8	Pass



PSD NVNT Zigbee 2405MHz Ant1



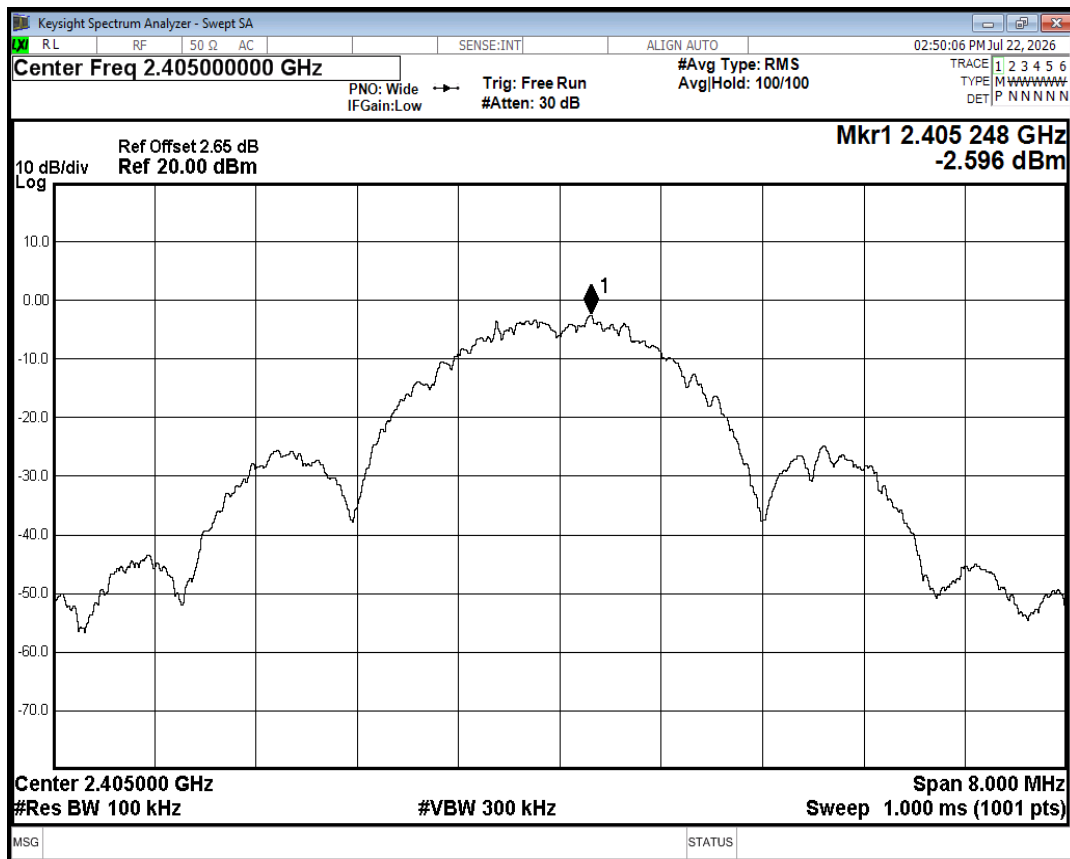
PSD NVNT Zigbee 2440MHz Ant1



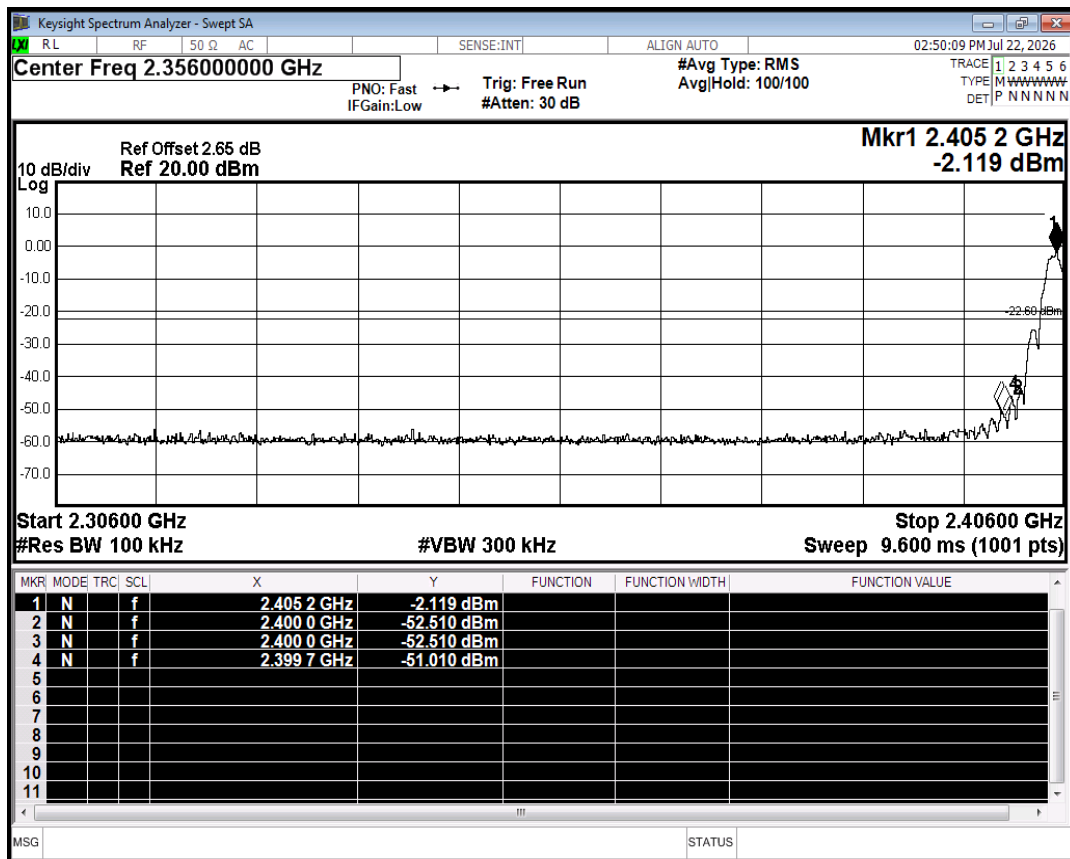
PSD NVNT Zigbee 2480MHz Ant1

A.4 Band Edge

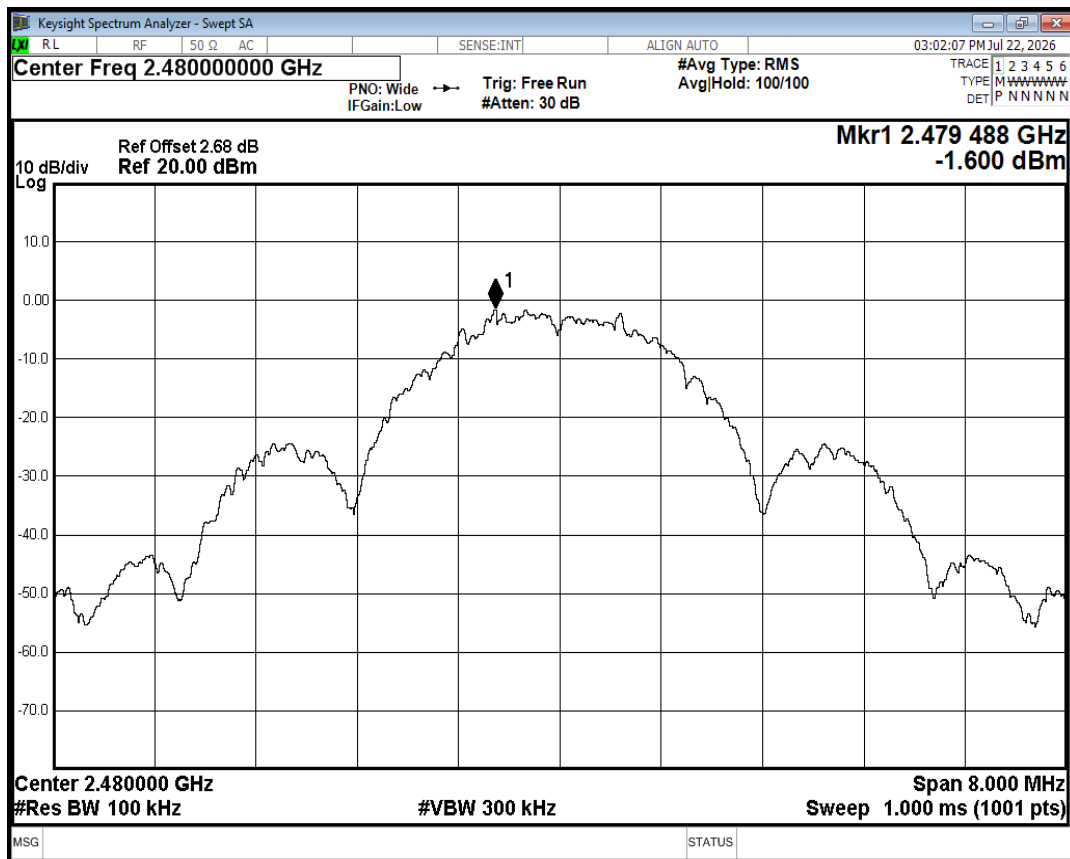
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	Zigbee	2405	Ant1	-48.41	-20	Pass
NVNT	Zigbee	2480	Ant1	-43.42	-20	Pass



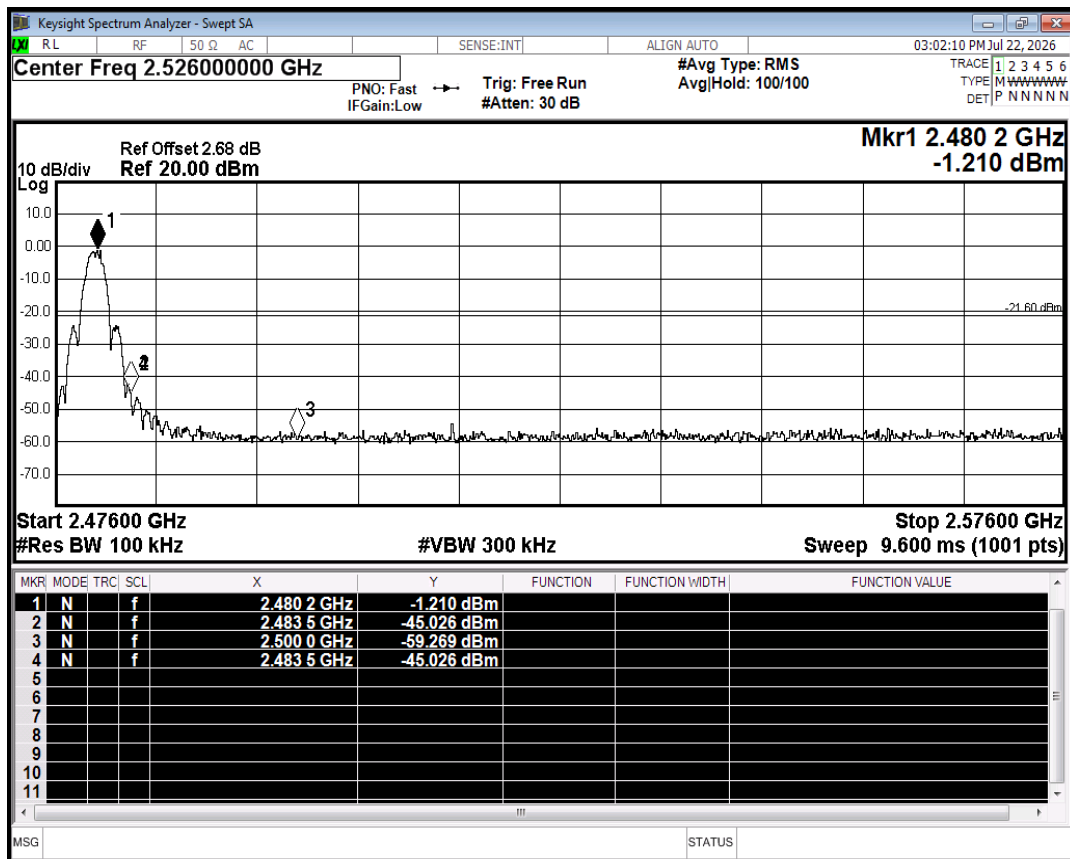
Band Edge NVNT Zigbee 2405MHz Ant1 Ref



Band Edge NVNT Zigbee 2405MHz Ant1 Emission



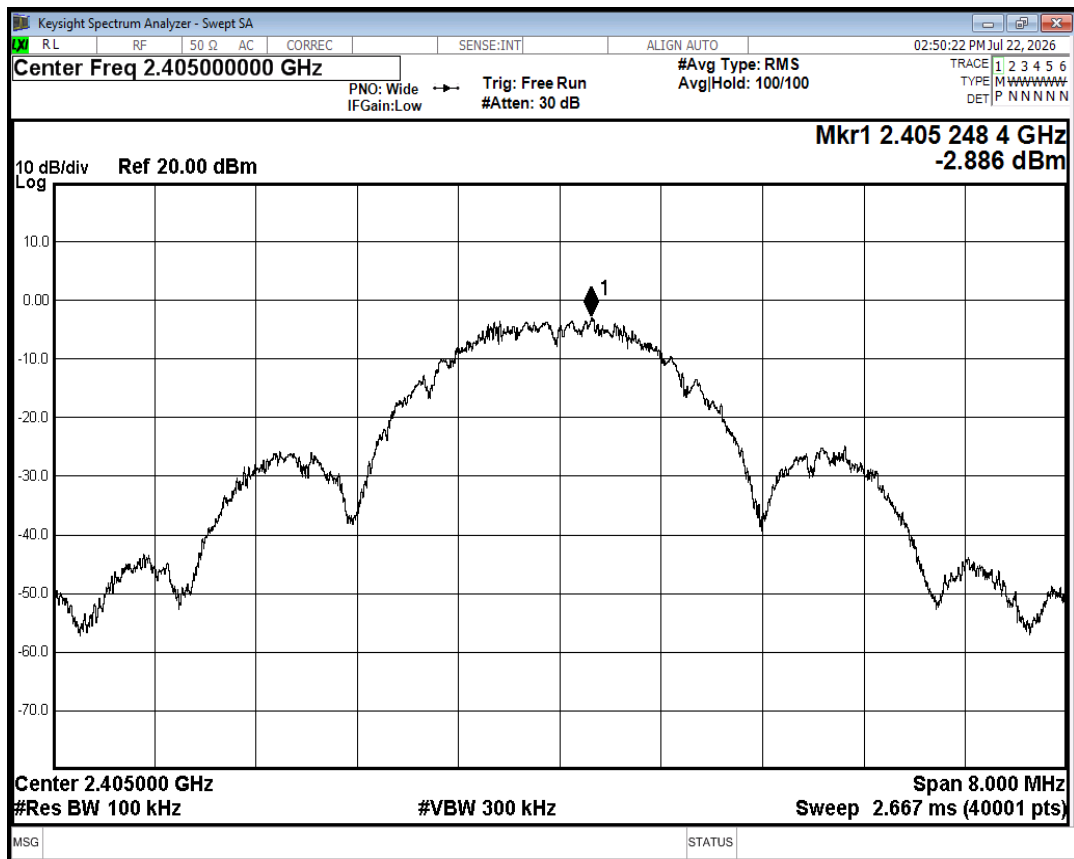
Band Edge NVNT Zigbee 2480MHz Ant1 Ref



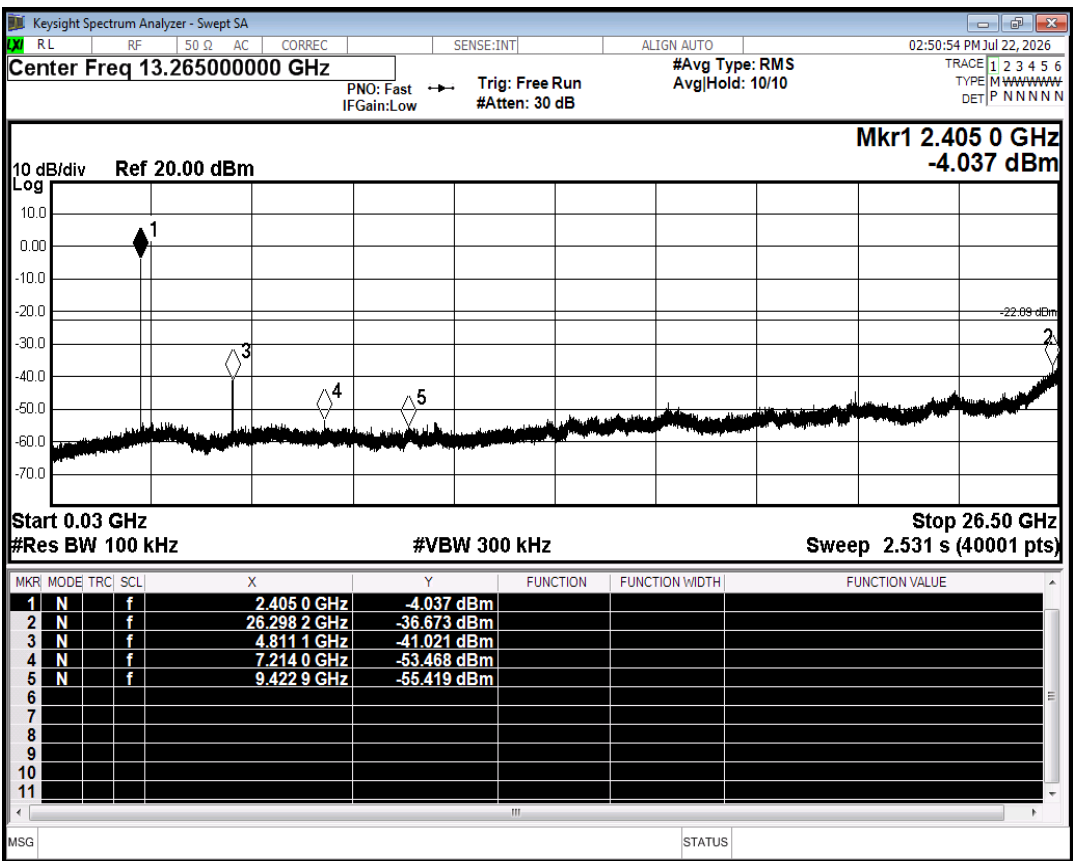
Band Edge NVNT Zigbee 2480MHz Ant1 Emission

A.5 Conducted RF Spurious Emission

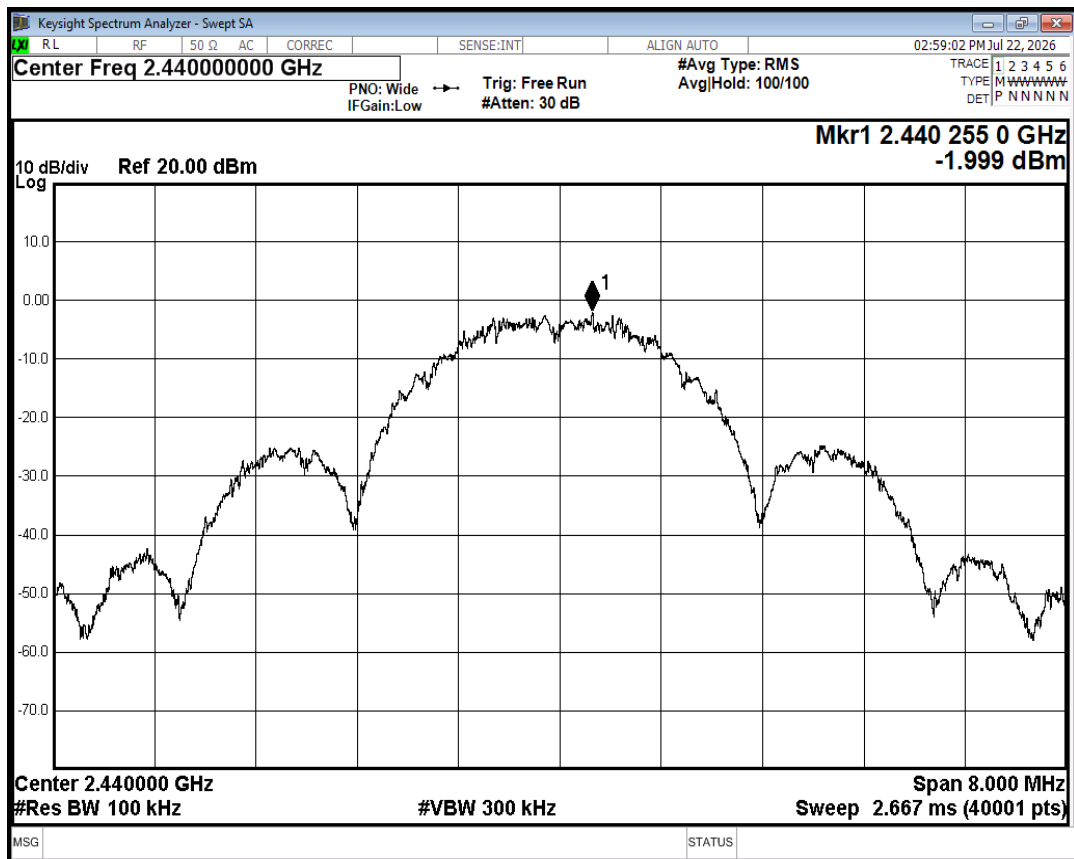
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	Zigbee	2405	Ant1	-33.78	-20	Pass
NVNT	Zigbee	2440	Ant1	-35.71	-20	Pass
NVNT	Zigbee	2480	Ant1	-36.03	-20	Pass



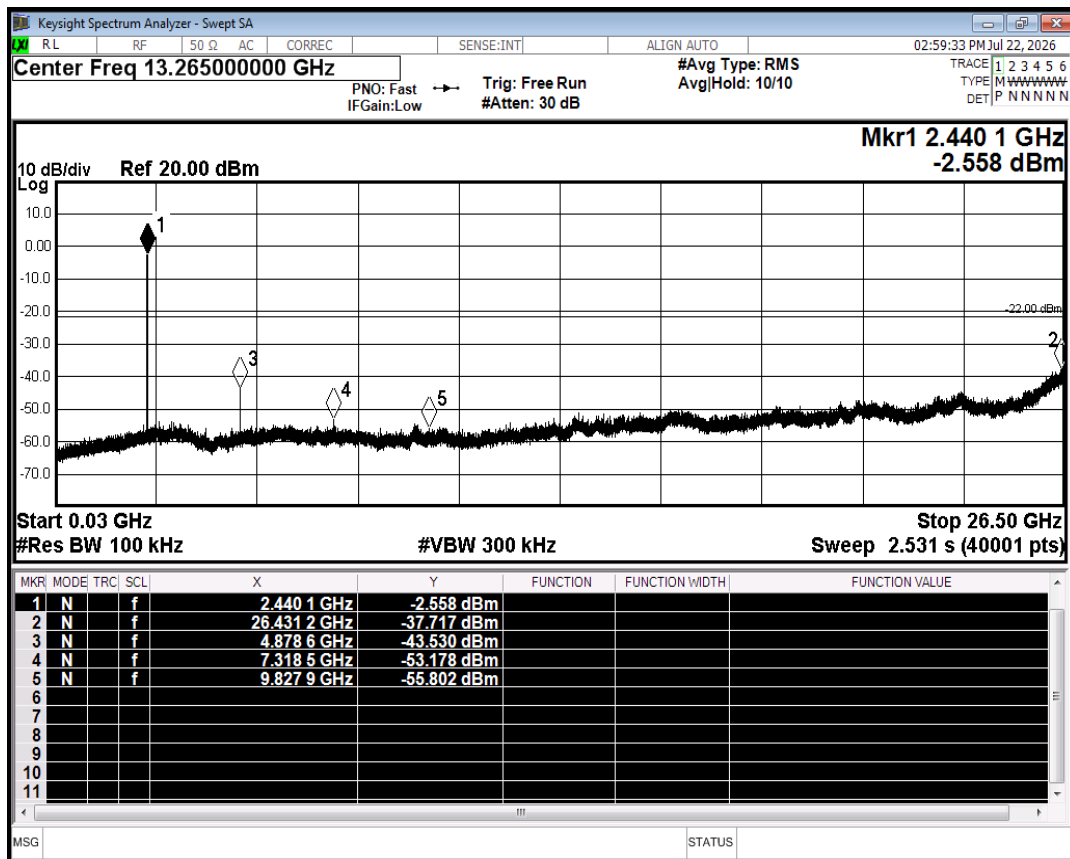
Tx. Spurious NVNT Zigbee 2405MHz Ant1 Ref



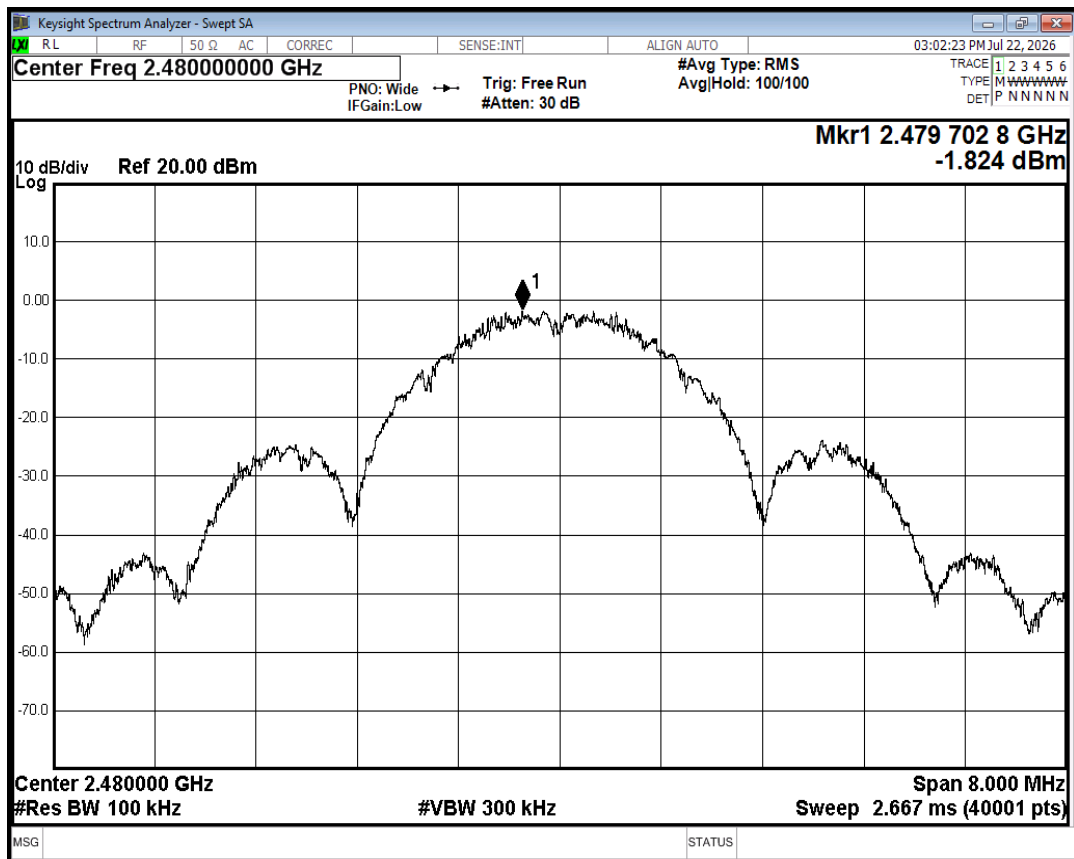
Tx. Spurious NVNT Zigbee 2405MHz Ant1 Emission



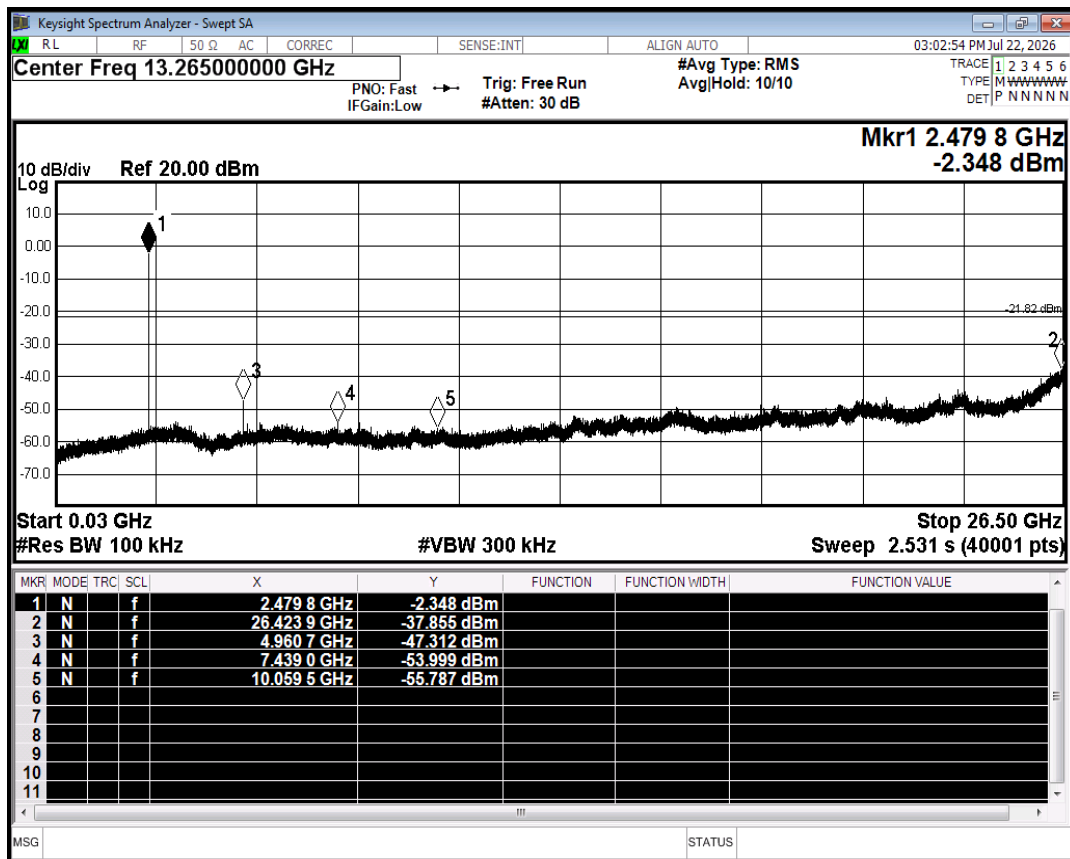
Tx. Spurious NVNT Zigbee 2440MHz Ant1 Ref



Tx. Spurious NVNT Zigbee 2440MHz Ant1 Emission



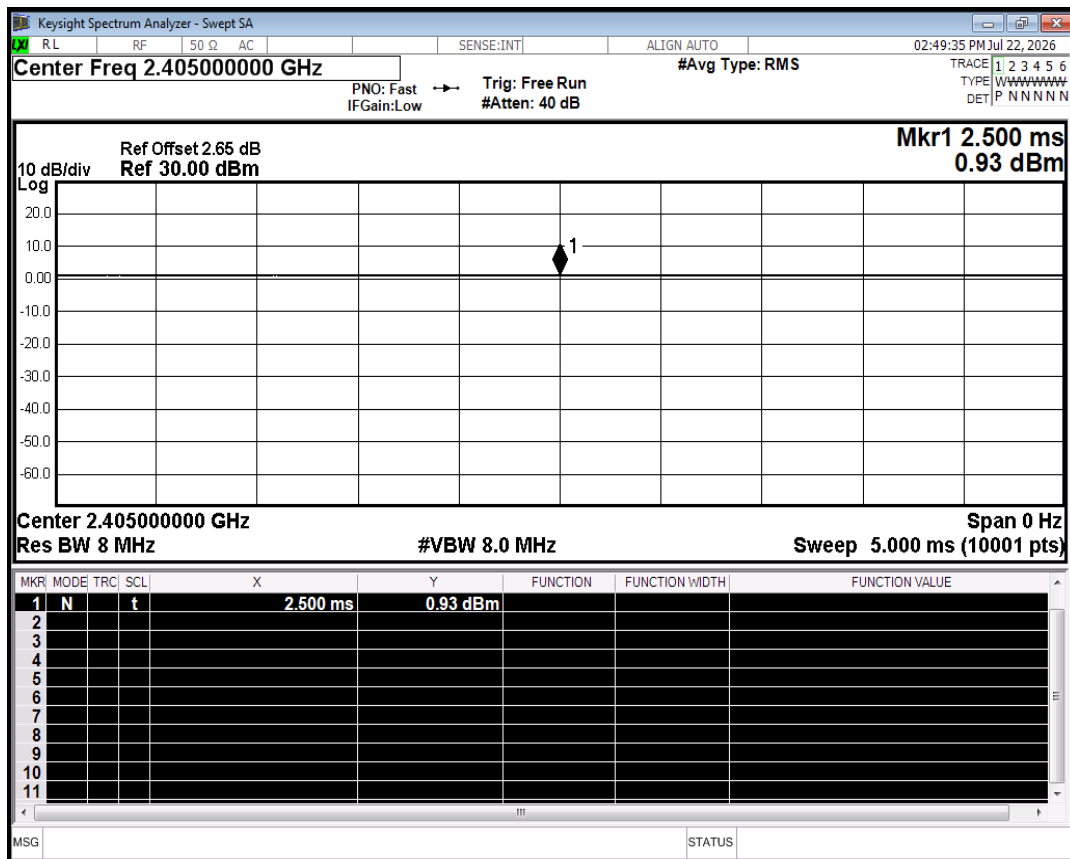
Tx. Spurious NVNT Zigbee 2480MHz Ant1 Ref



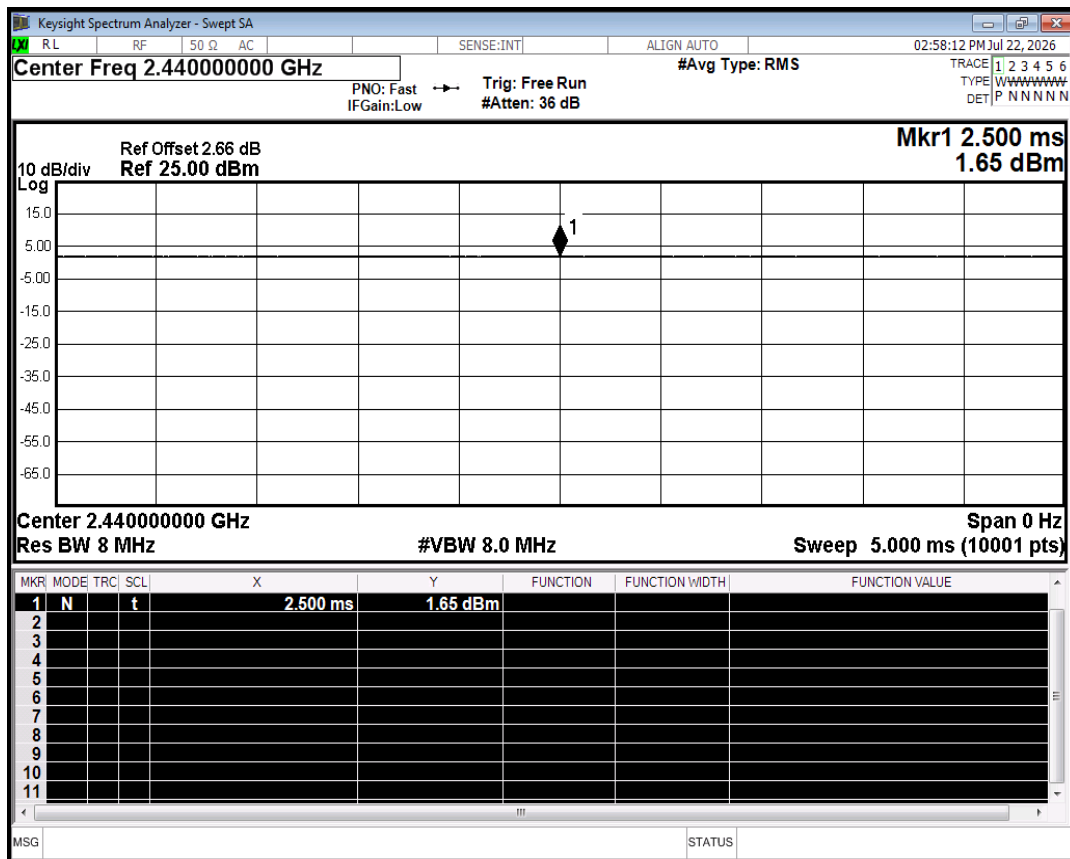
Tx. Spurious NVNT Zigbee 2480MHz Ant1 Emission

A.6 Duty Cycle

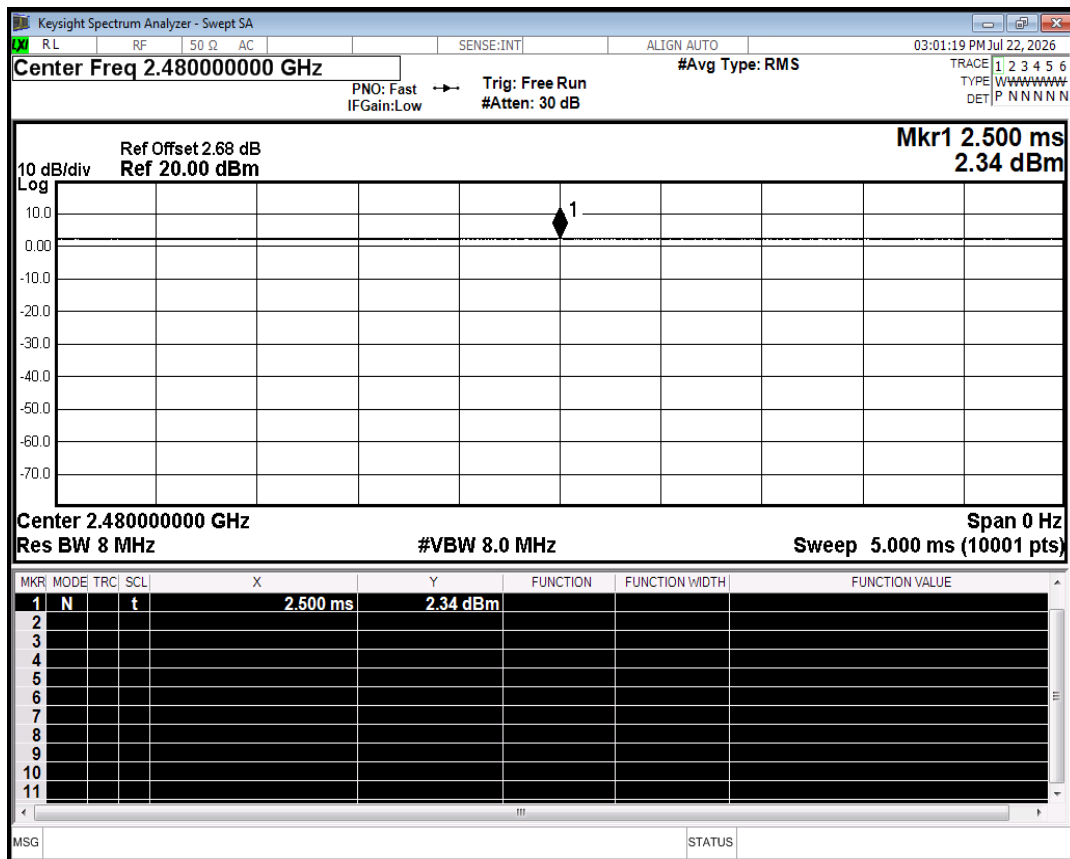
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	Zigbee	2405	Ant1	100	0	0
NVNT	Zigbee	2440	Ant1	100	0	0
NVNT	Zigbee	2480	Ant1	100	0	0



Duty Cycle NVNT Zigbee 2405MHz Ant1



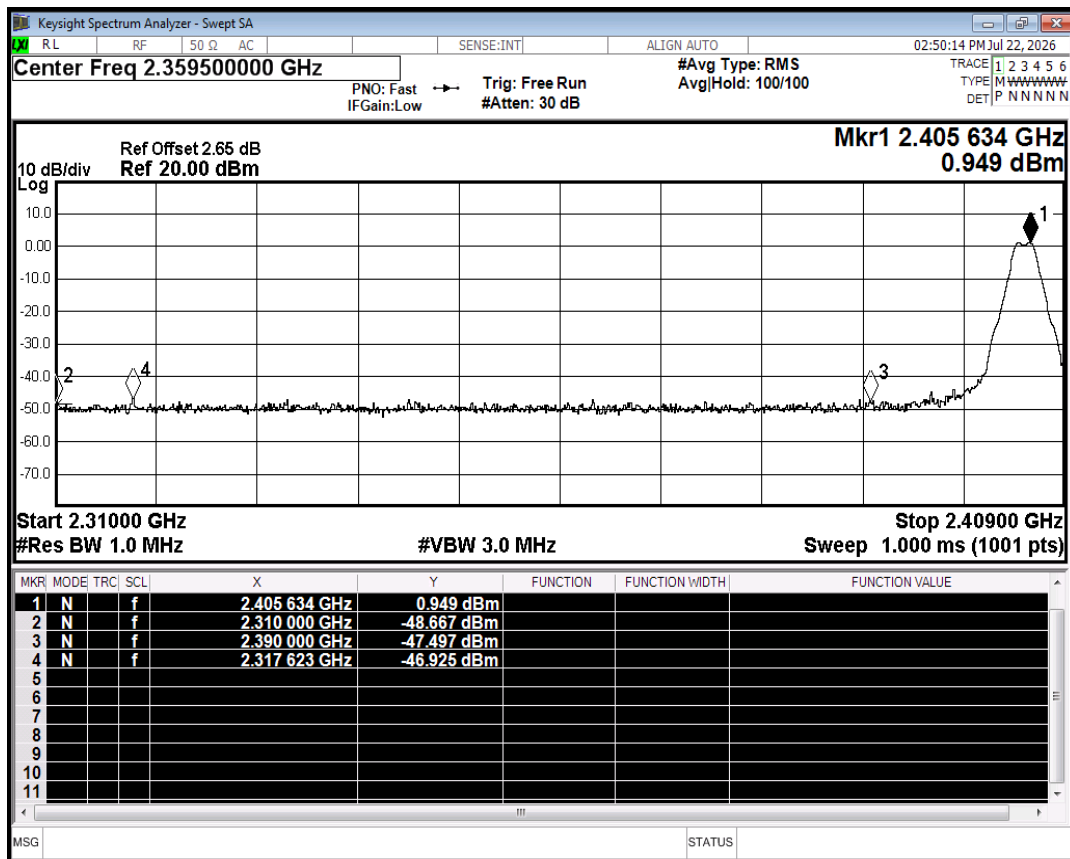
Duty Cycle NVNT Zigbee 2440MHz Ant1



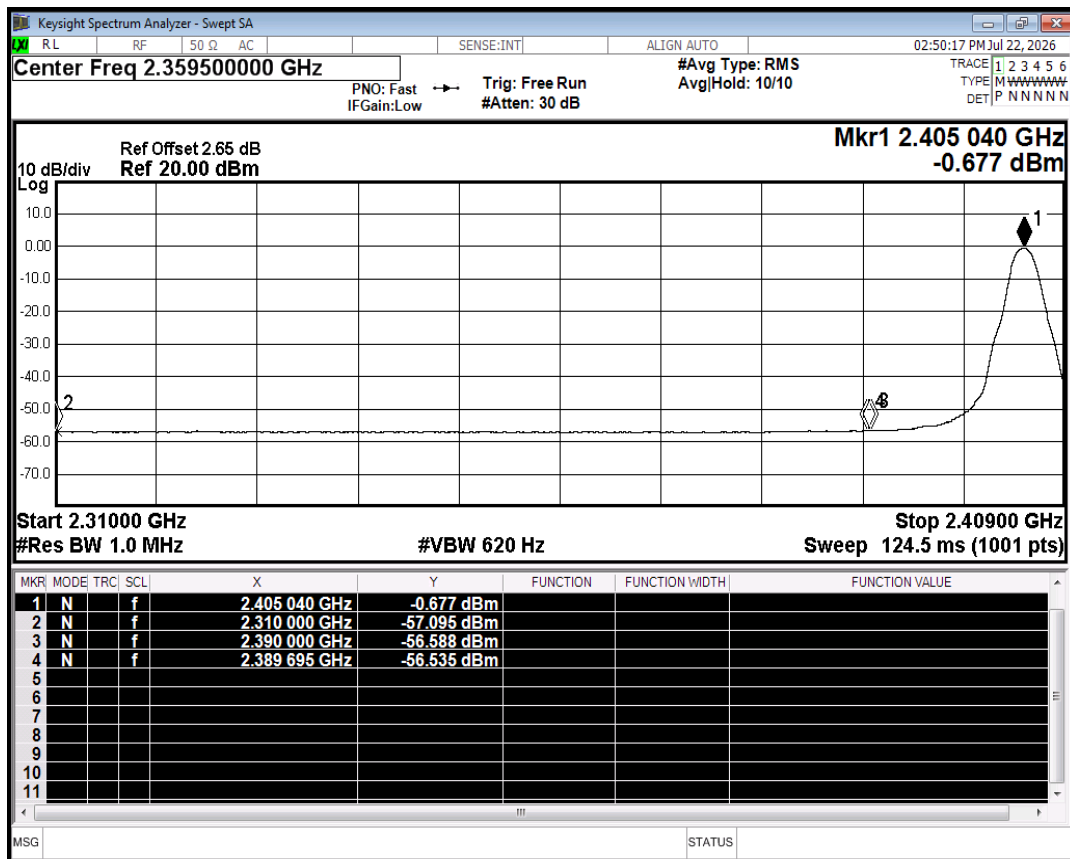
Duty Cycle NVNT Zigbee 2480MHz Ant1

A.7 Restrict Band

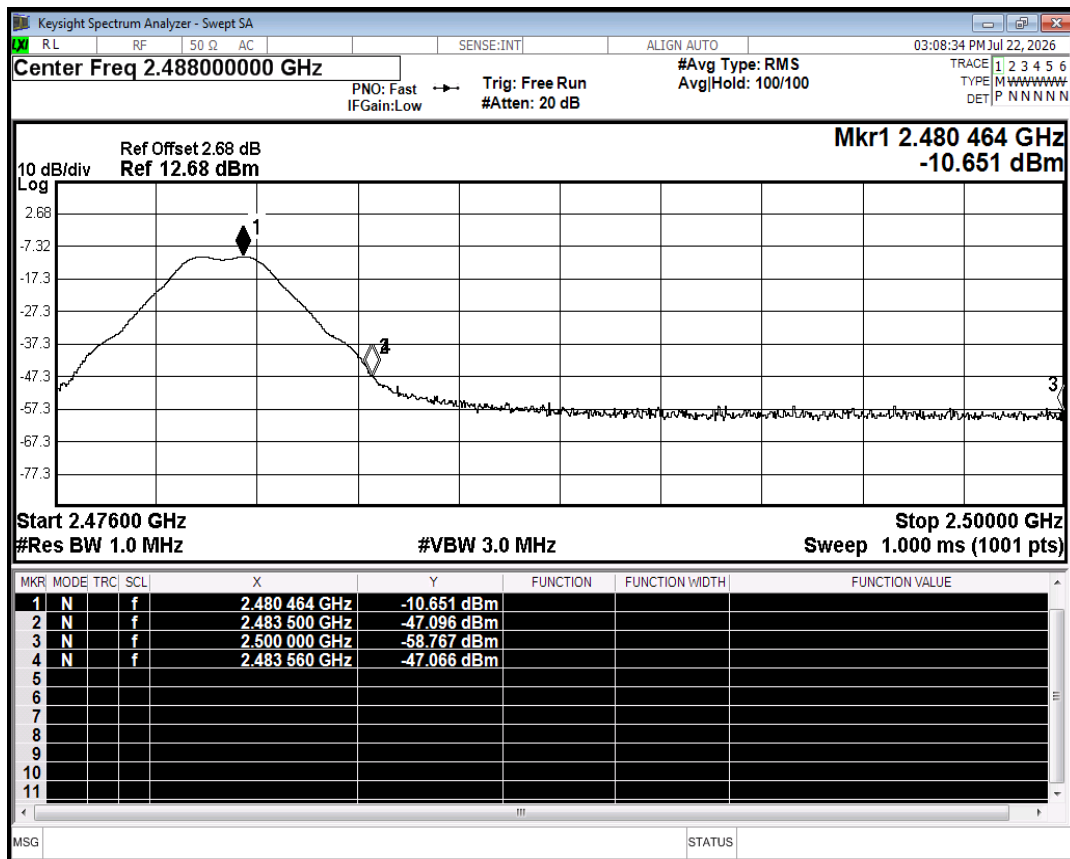
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	Zigbee	2405	Ant1	2310	-48.66	2.0	48.60	Peak	74	Pass
NVNT	Zigbee	2405	Ant1	2310	-57.09	2.0	40.17	Average	54	Pass
NVNT	Zigbee	2405	Ant1	2317.623	-46.92	2.0	50.34	Peak	74	Pass
NVNT	Zigbee	2405	Ant1	2389.695	-56.53	2.0	40.73	Average	54	Pass
NVNT	Zigbee	2405	Ant1	2390	-47.98	2.0	49.28	Peak	74	Pass
NVNT	Zigbee	2405	Ant1	2390	-56.62	2.0	40.64	Average	54	Pass
NVNT	Zigbee	2480	Ant1	2483.5	-47.09	2.0	50.17	Peak	74	Pass
NVNT	Zigbee	2480	Ant1	2483.5	-48.87	2.0	48.39	Average	54	Pass
NVNT	Zigbee	2480	Ant1	2483.56	-47.06	2.0	50.20	Peak	74	Pass
NVNT	Zigbee	2480	Ant1	2483.512	-48.87	2.0	48.39	Average	54	Pass
NVNT	Zigbee	2480	Ant1	2500	-58.76	2.0	38.50	Peak	74	Pass
NVNT	Zigbee	2480	Ant1	2500	-66.44	2.0	30.82	Average	54	Pass



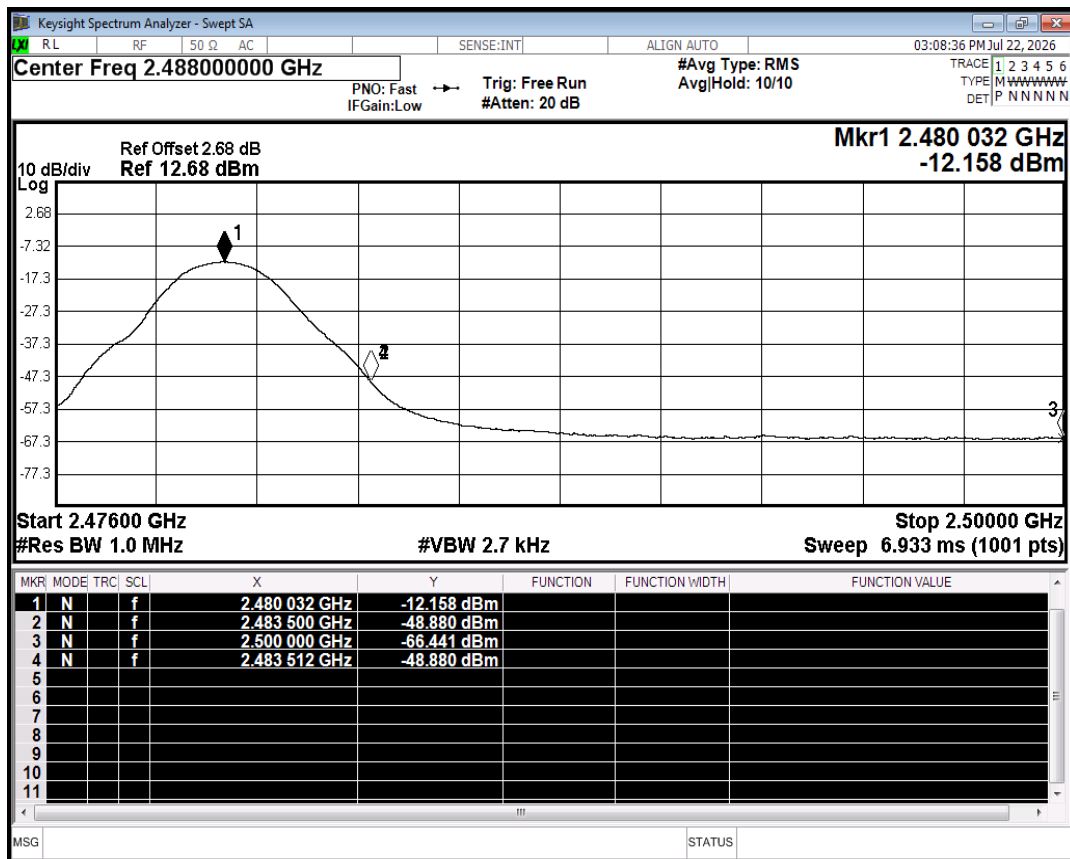
Restrict Band NVNT Zigbee 2405MHz Ant1 Peak



Restrict Band NVNT Zigbee 2405MHz Ant1 Average



Restrict Band NVNT Zigbee 2480MHz Ant1 Peak



Restrict Band NVNT Zigbee 2480MHz Ant1 Average