

Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Android TV Box

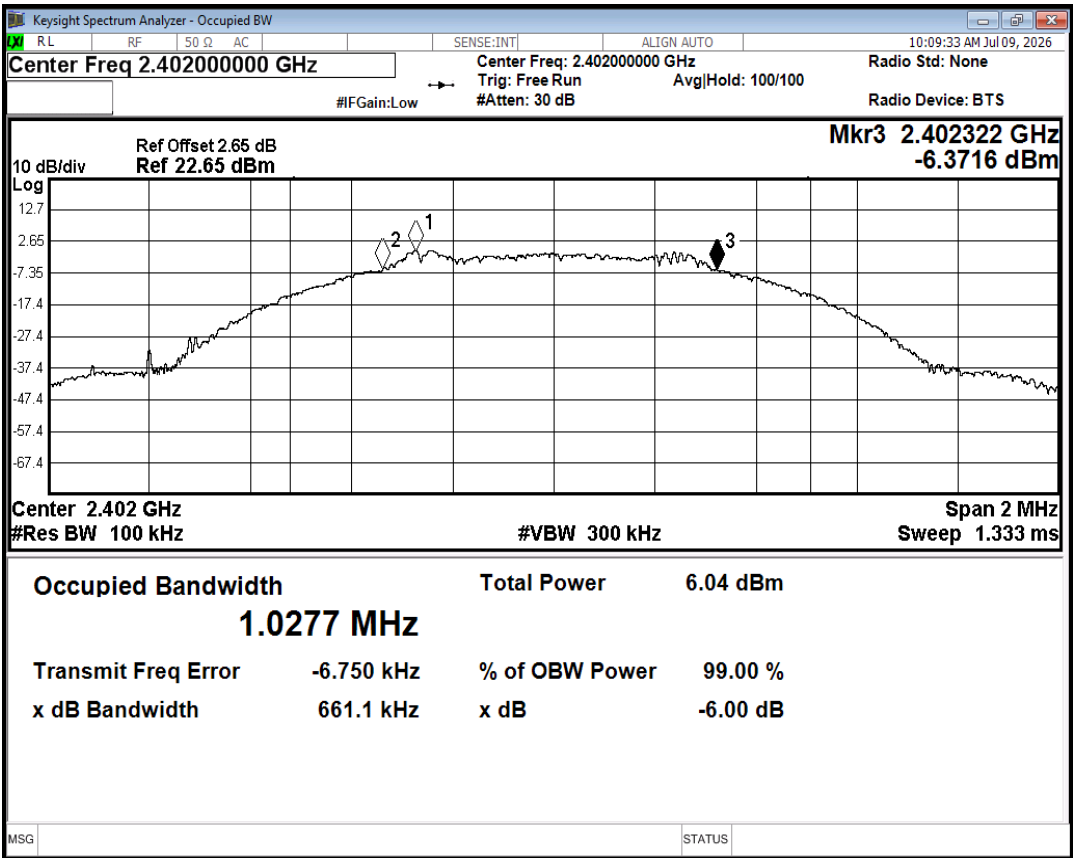
Test Model: Q11

Environmental Conditions

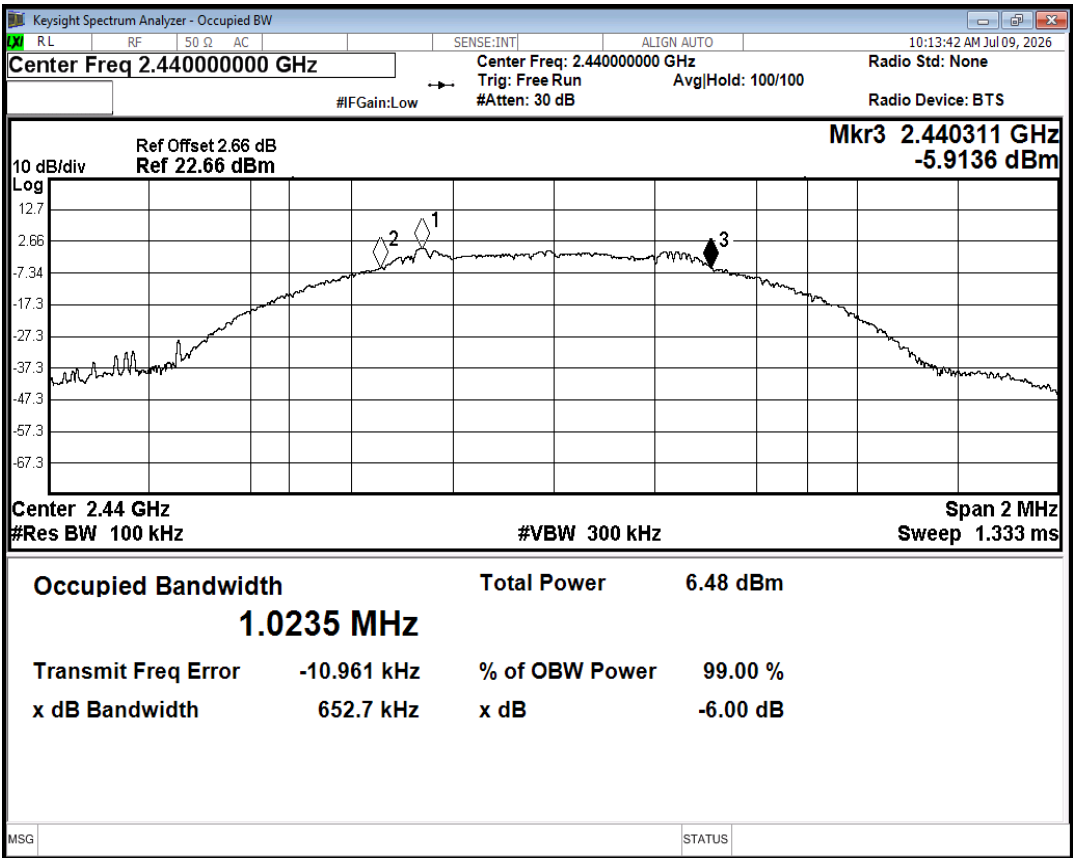
Temperature:	23.1°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Fengliu Tang

B.1 -6dB Bandwidth

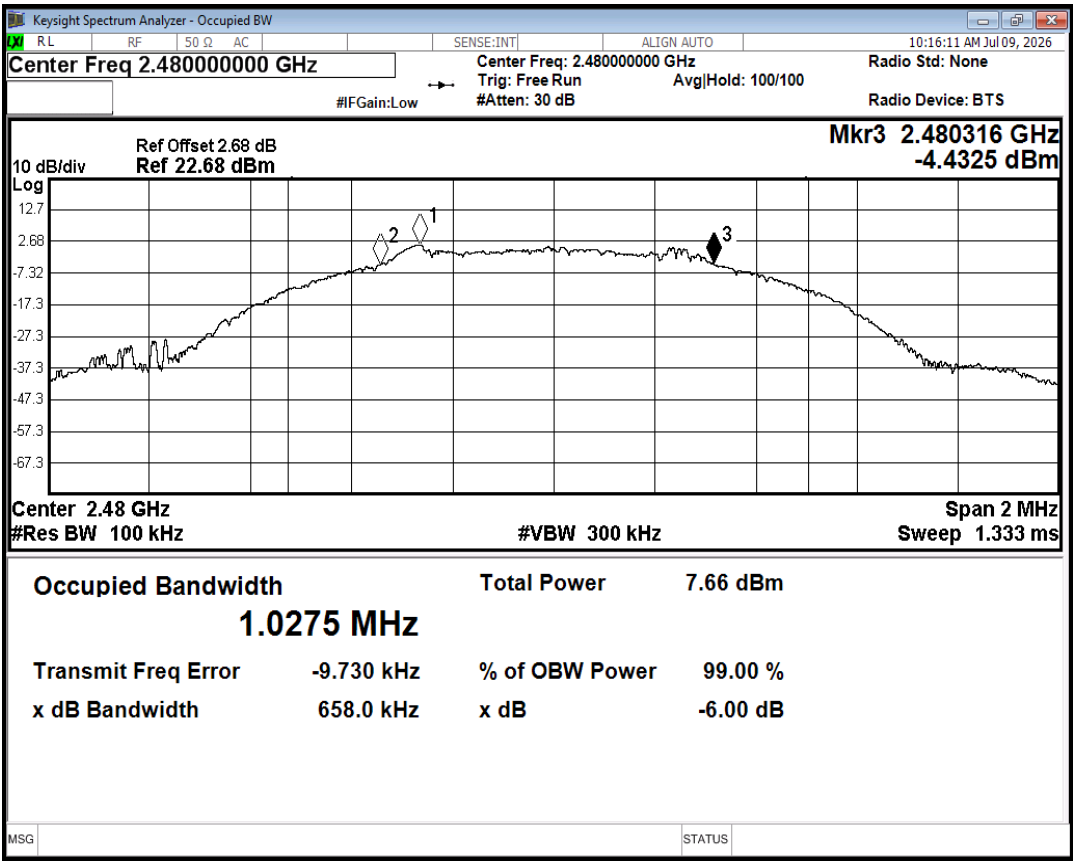
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6611	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6527	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.658	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.16	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.155	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.231	0.5	Pass



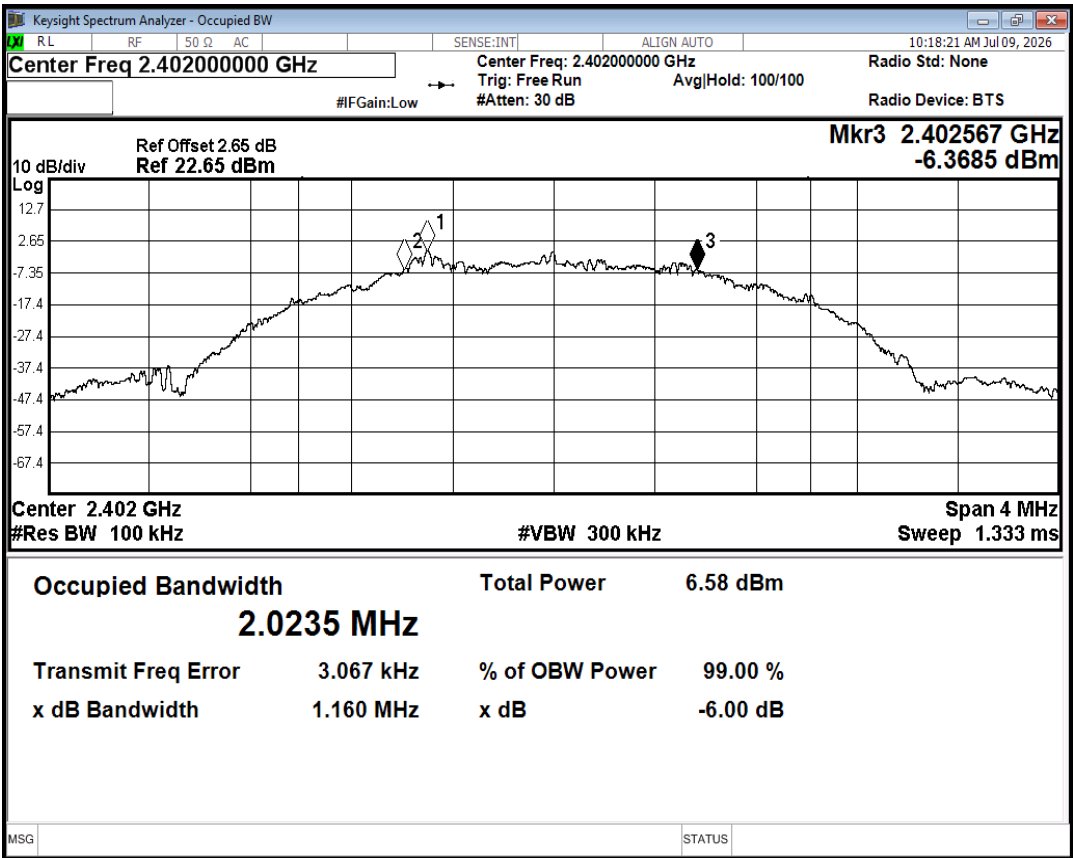
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



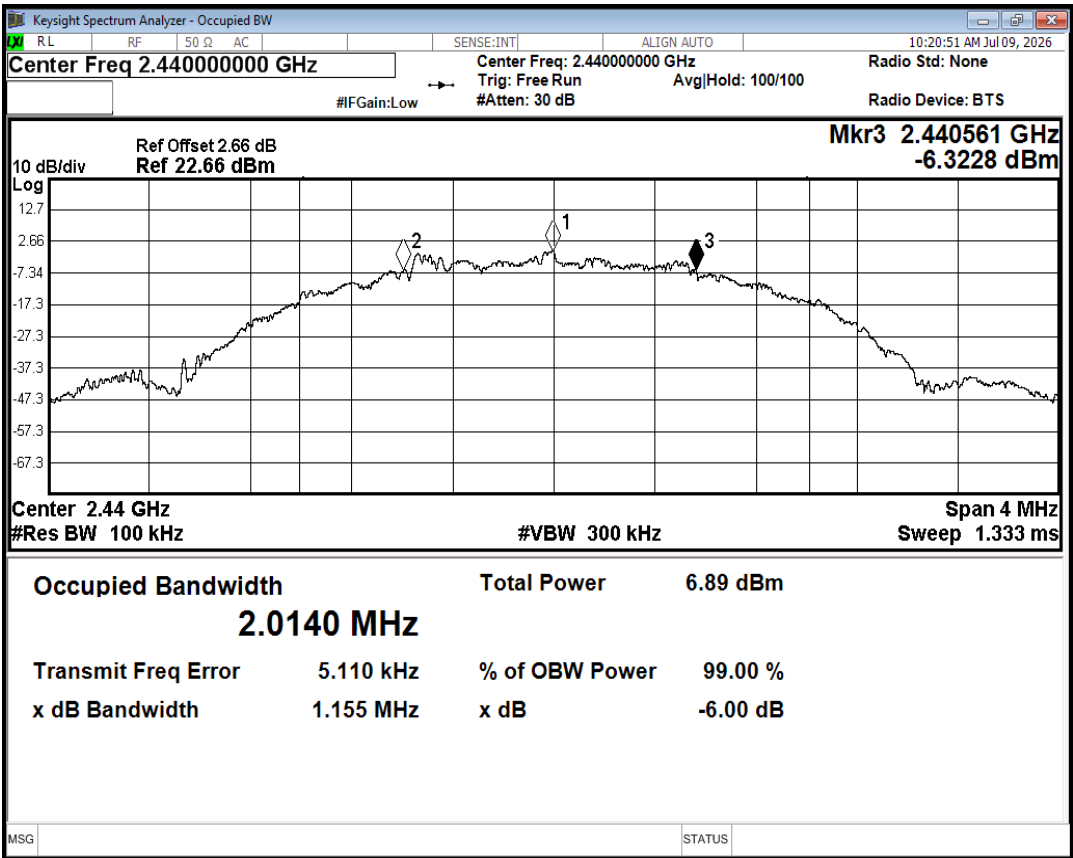
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



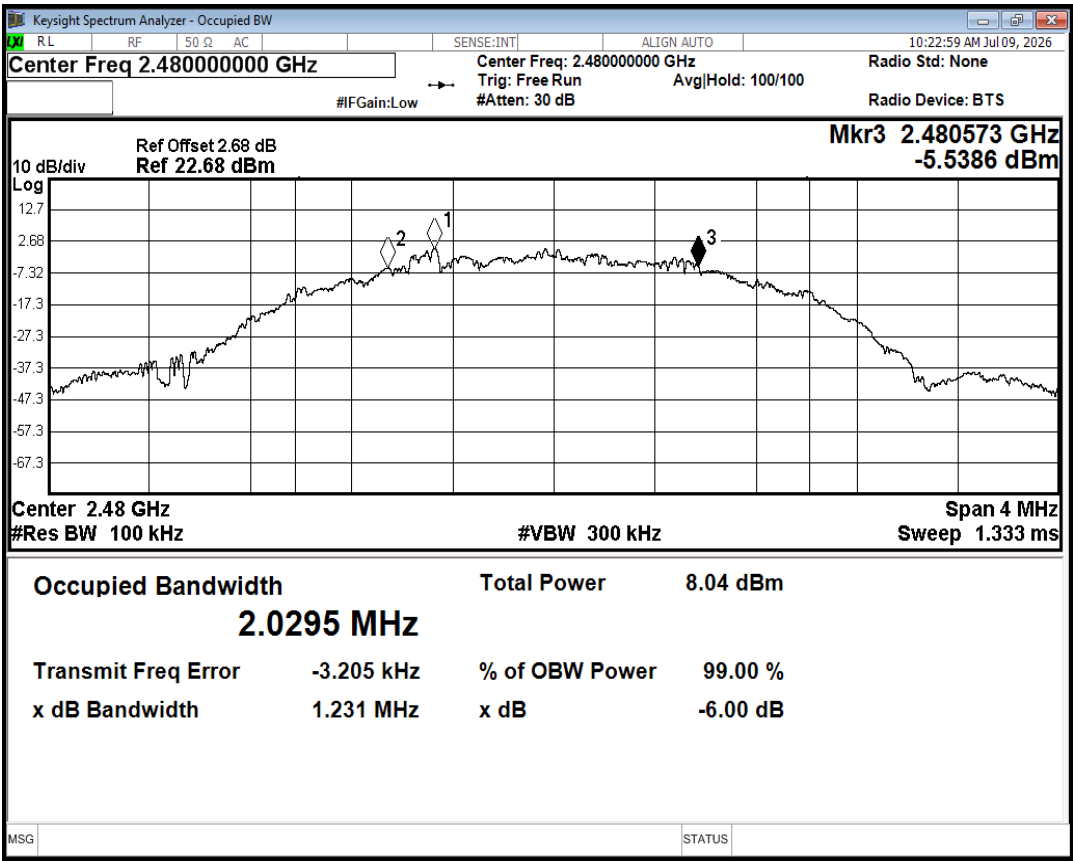
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



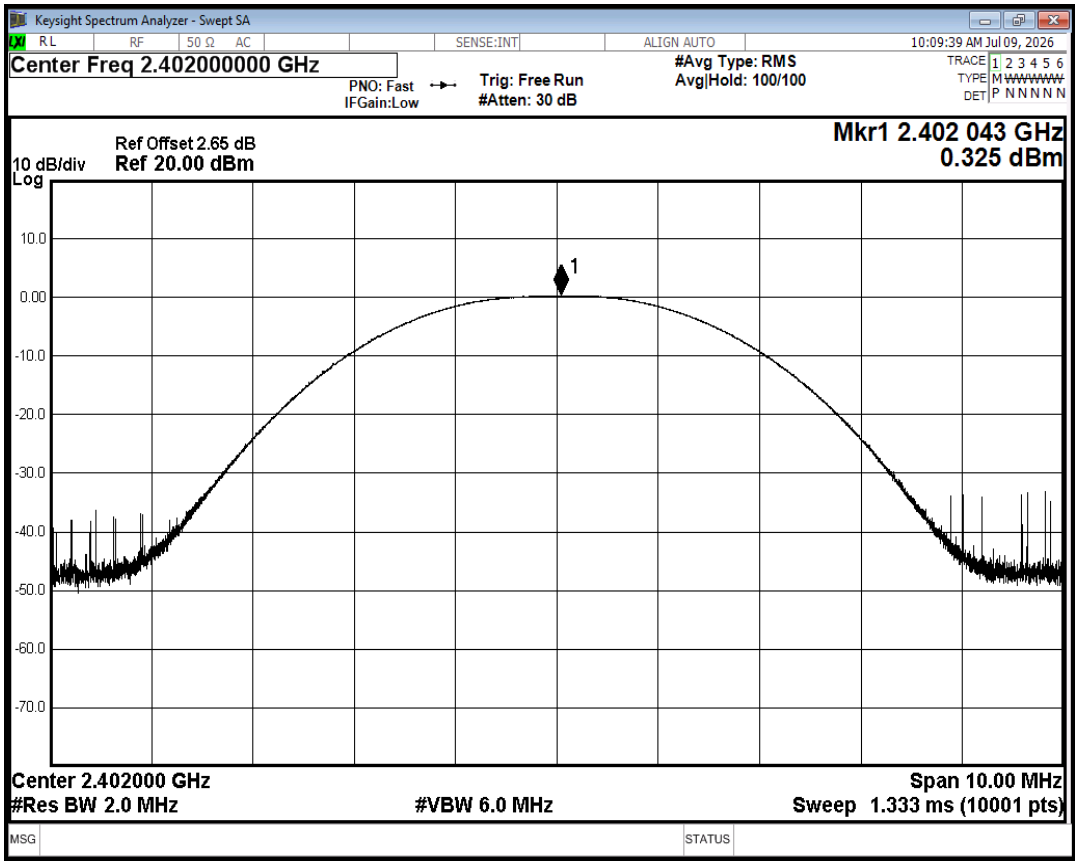
-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



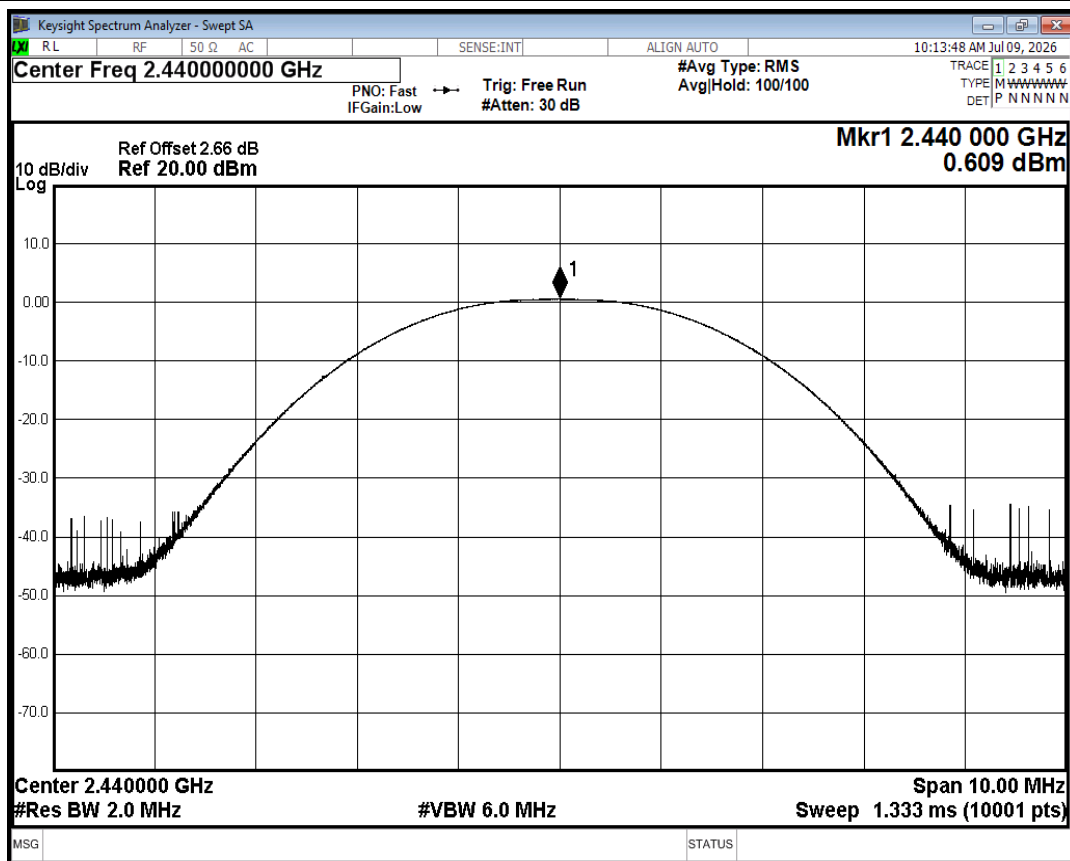
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

B.2 Maximum Peak Conducted Output Power

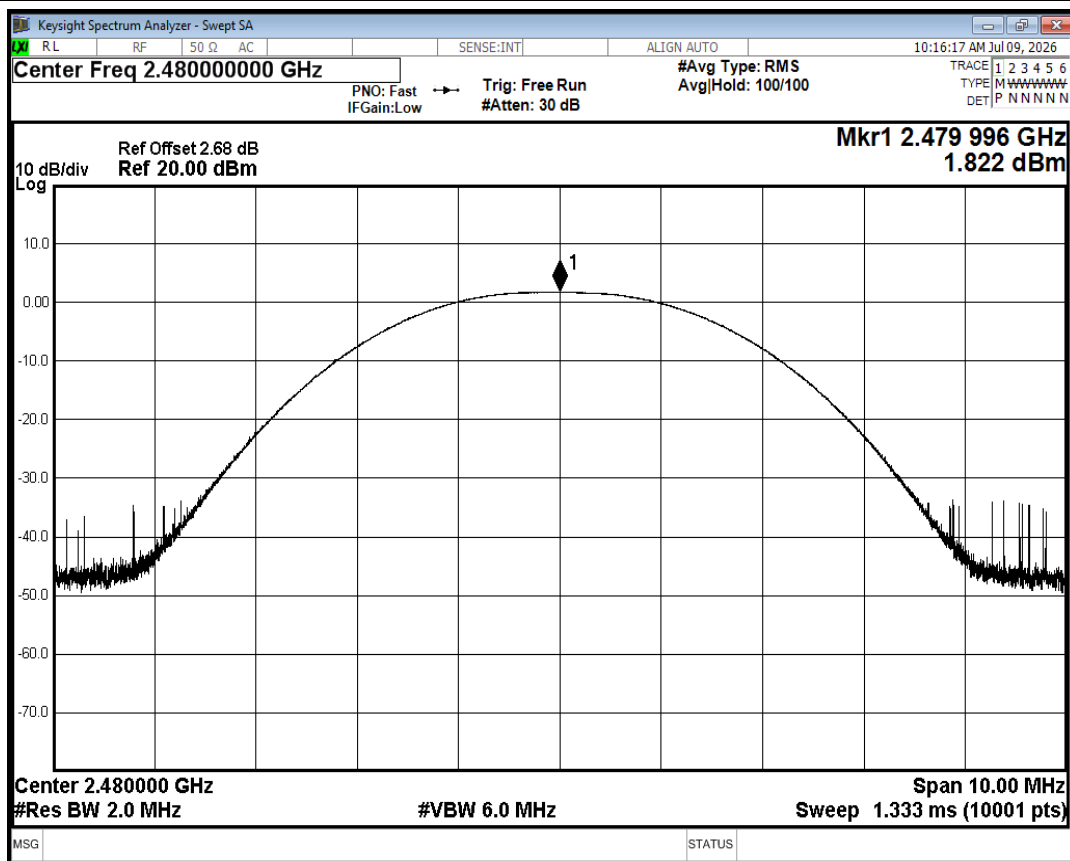
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.33	30	Pass
NVNT	BLE 1M	2440	Ant1	0.61	30	Pass
NVNT	BLE 1M	2480	Ant1	1.82	30	Pass
NVNT	BLE 2M	2402	Ant1	0.29	30	Pass
NVNT	BLE 2M	2440	Ant1	0.52	30	Pass
NVNT	BLE 2M	2480	Ant1	1.81	30	Pass



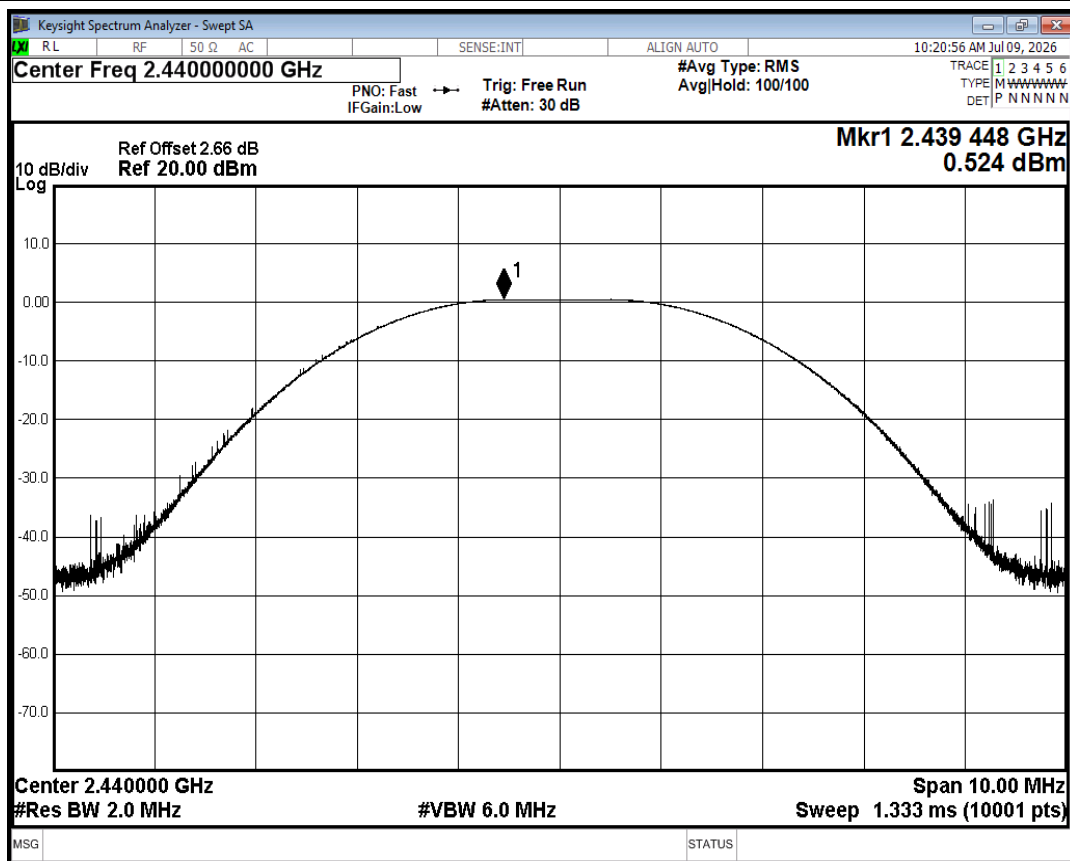
Peak Power NVNT BLE 1M 2402MHz Ant1

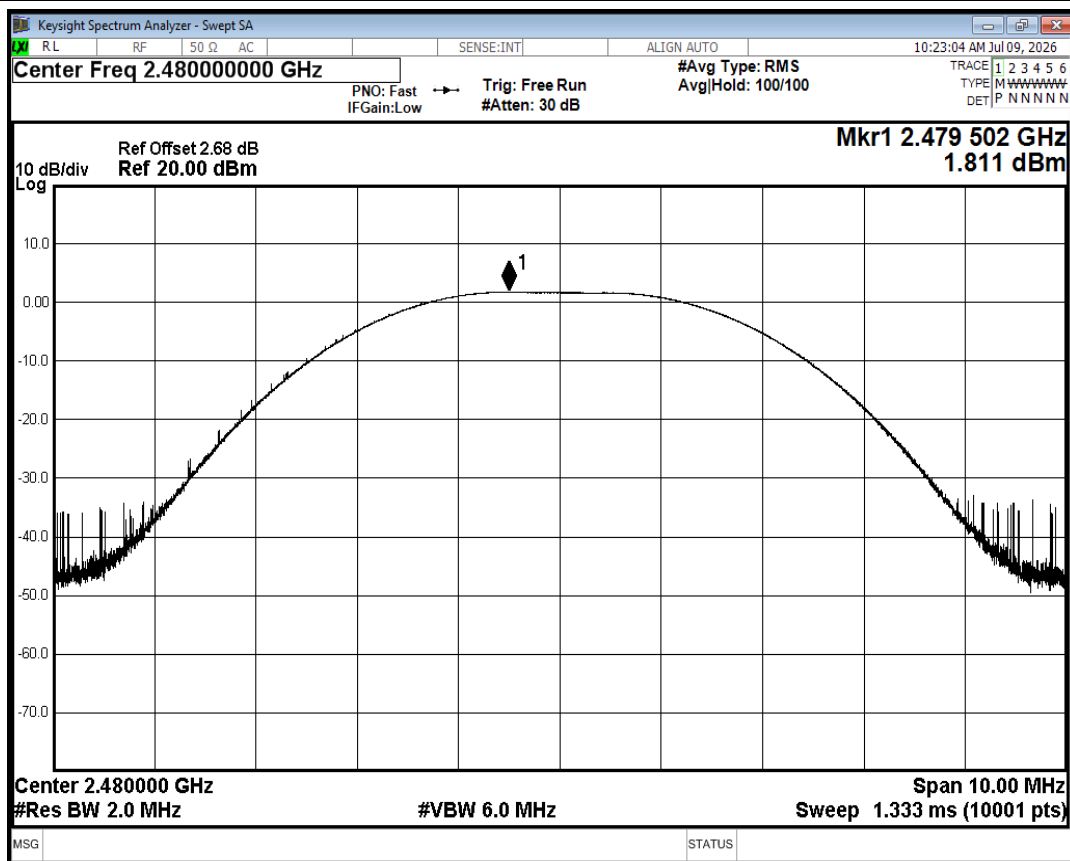


Peak Power NVNT BLE 1M 2440MHz Ant1



Peak Power NVNT BLE 1M 2480MHz Ant1

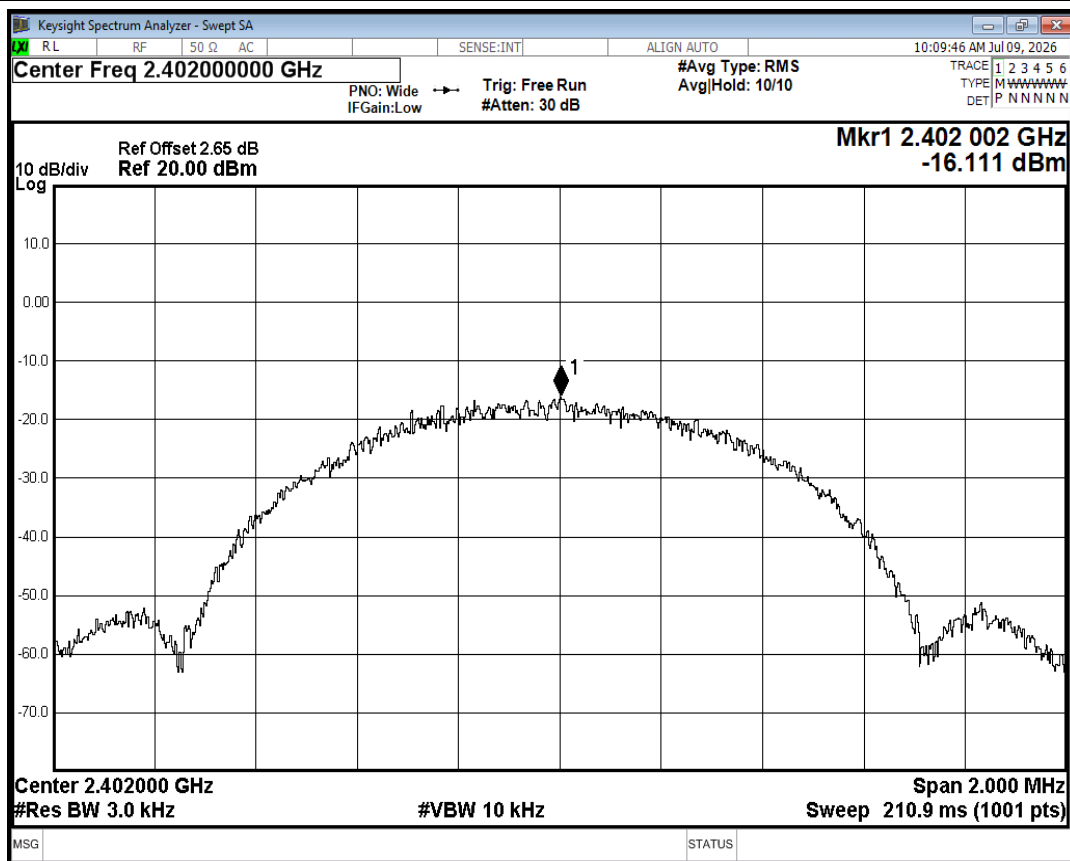


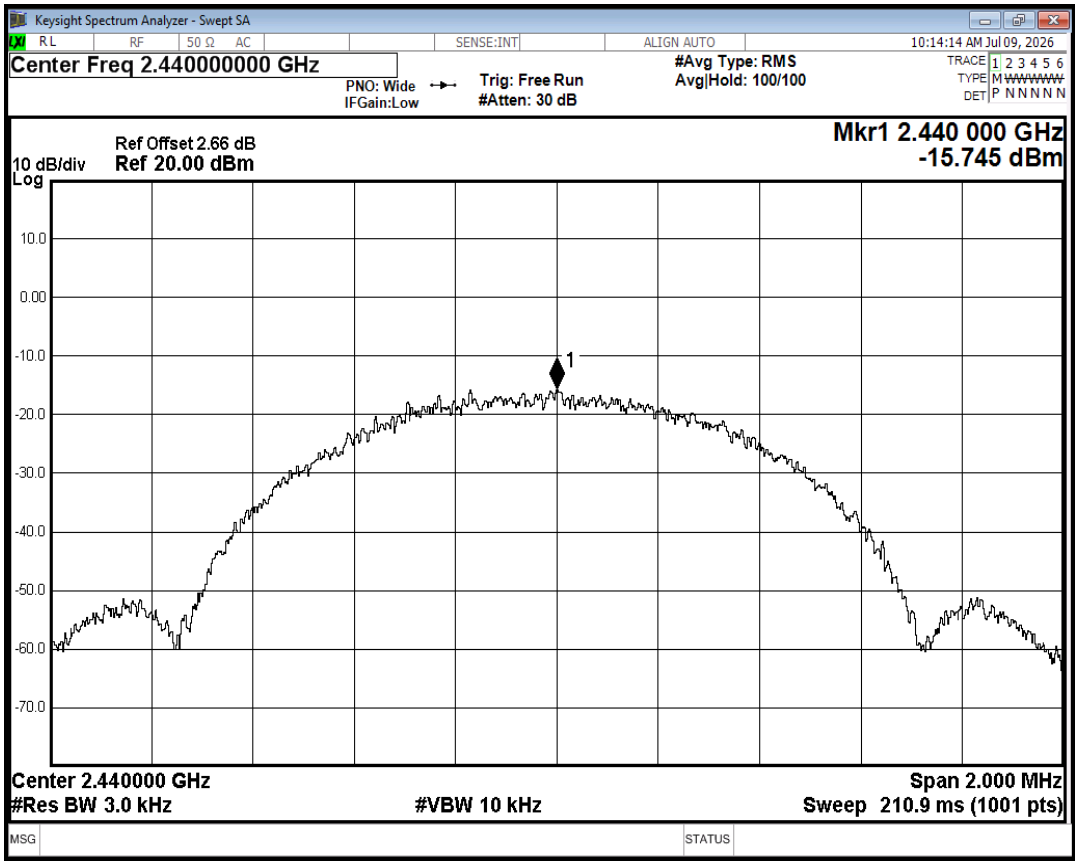


Peak Power NVNT BLE 2M 2480MHz Ant1

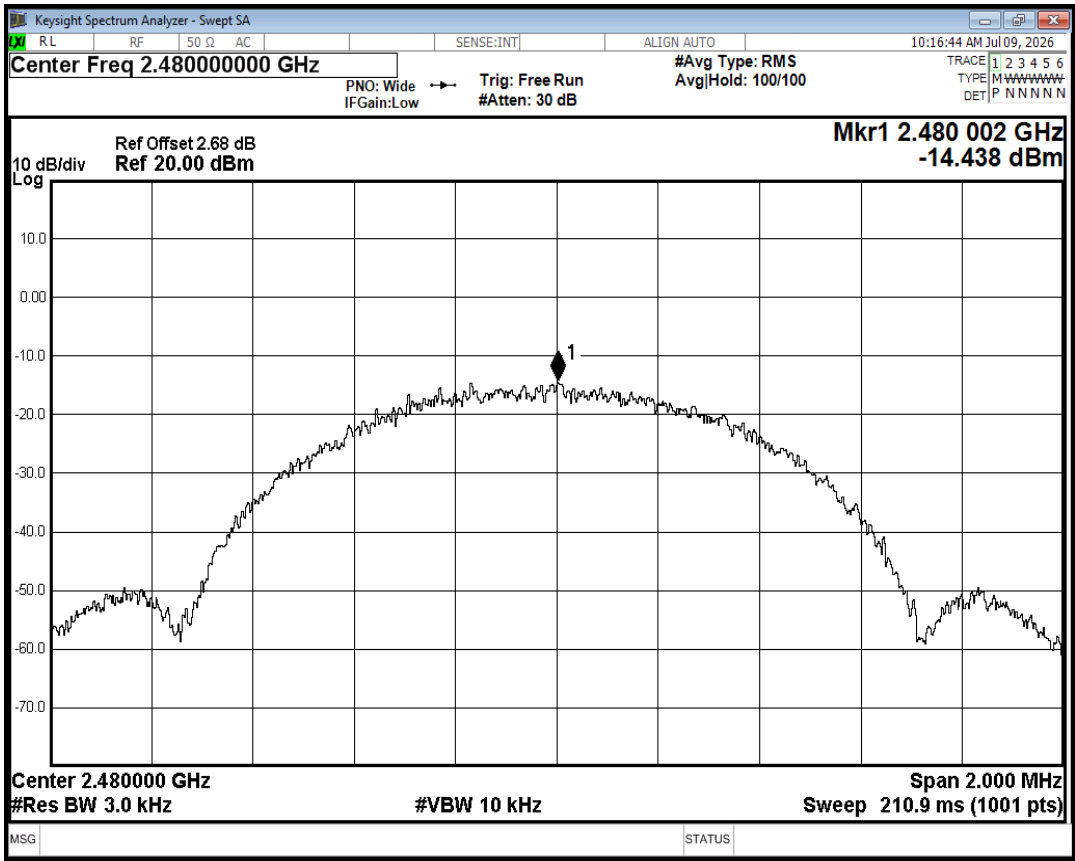
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.11	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.75	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.44	8	Pass
NVNT	BLE 2M	2402	Ant1	-19.36	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.04	8	Pass
NVNT	BLE 2M	2480	Ant1	-17.64	8	Pass

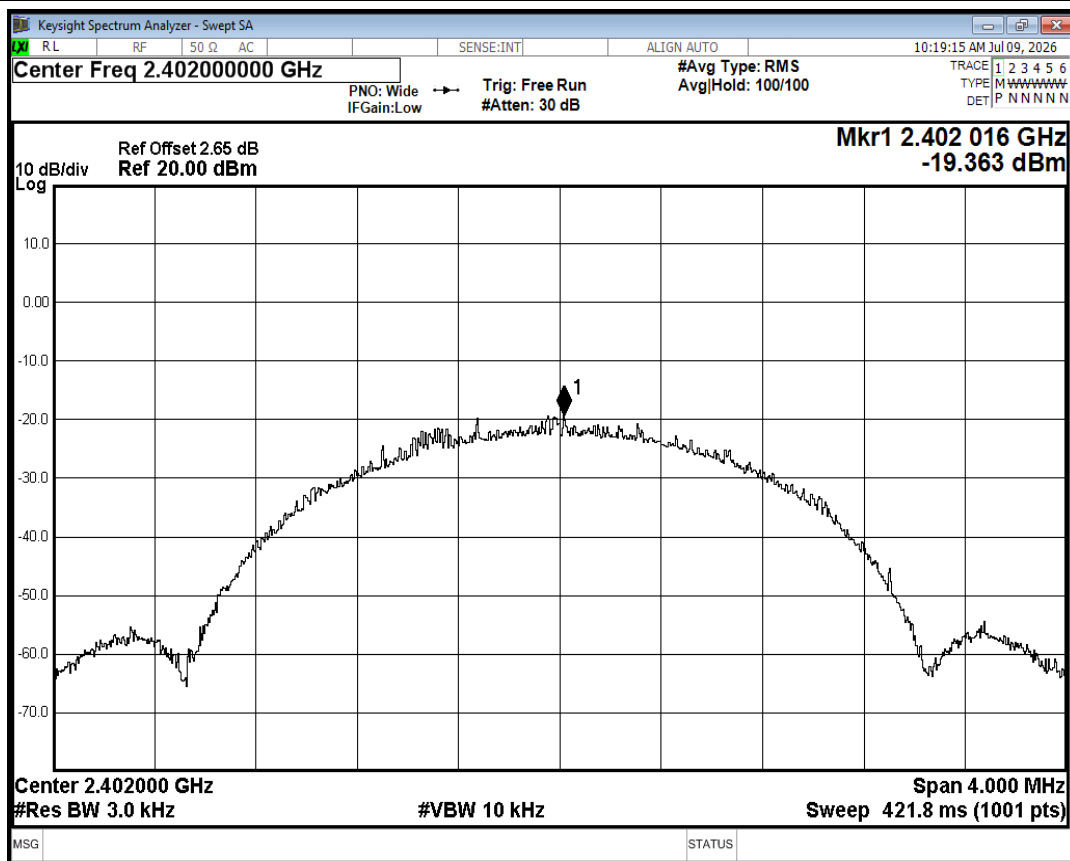




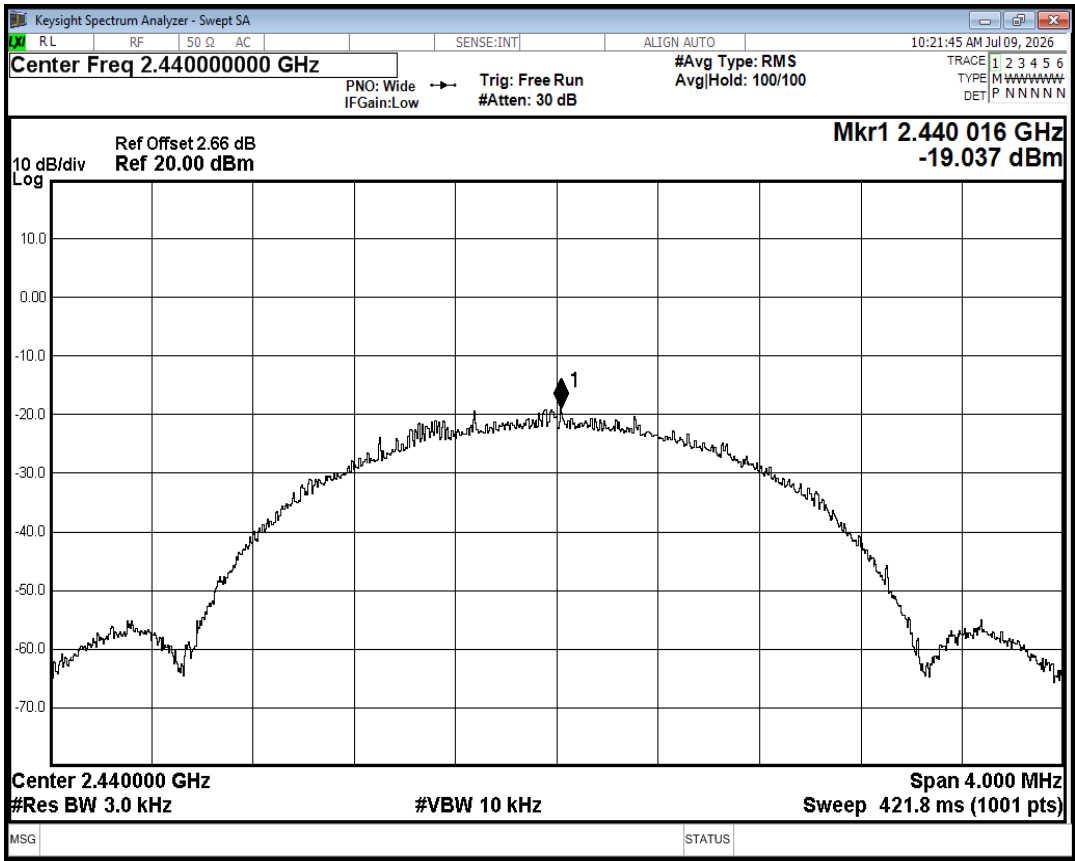
PSD NVNT BLE 1M 2440MHz Ant1

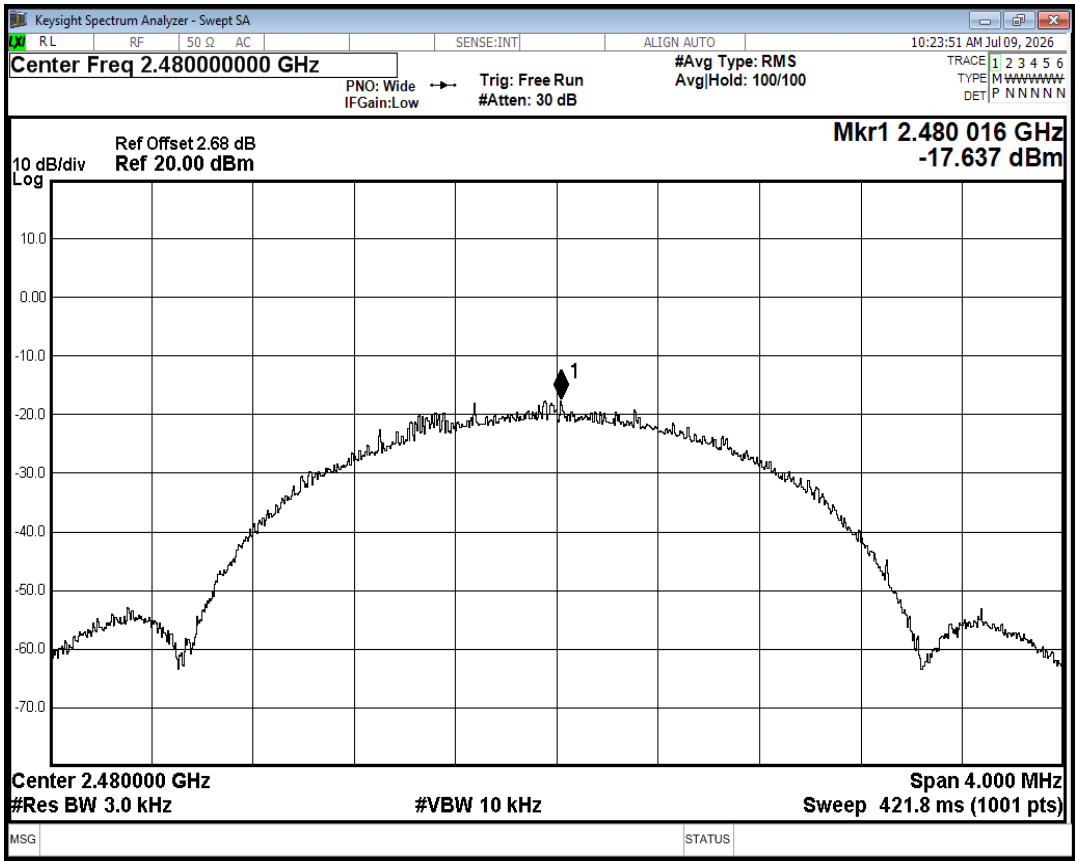


PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1

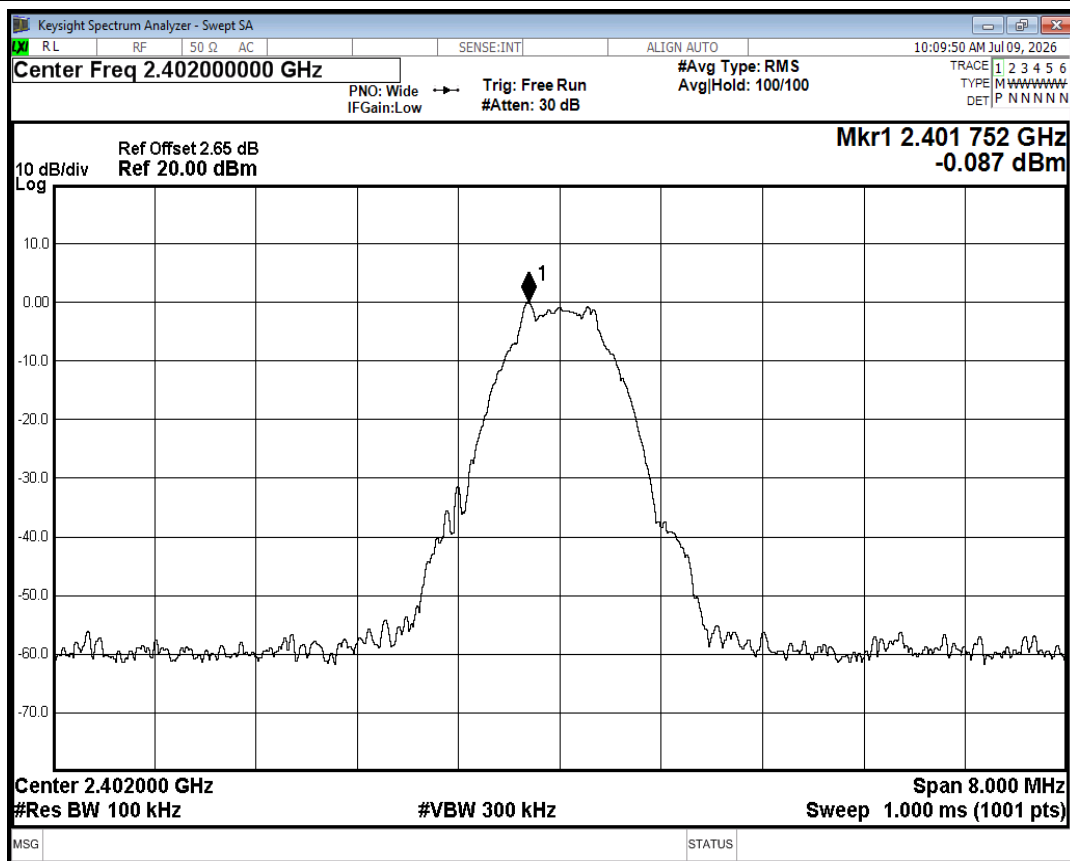




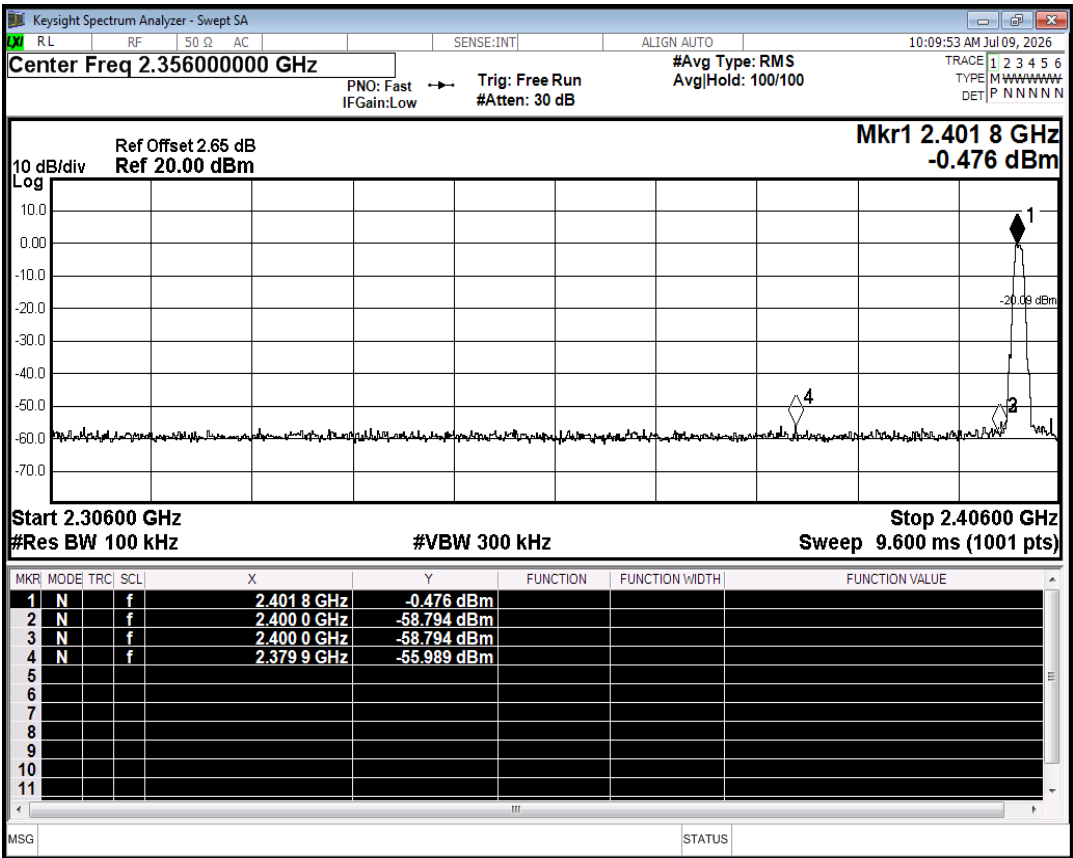
PSD NVNT BLE 2M 2480MHz Ant1

B.4 Band Edge

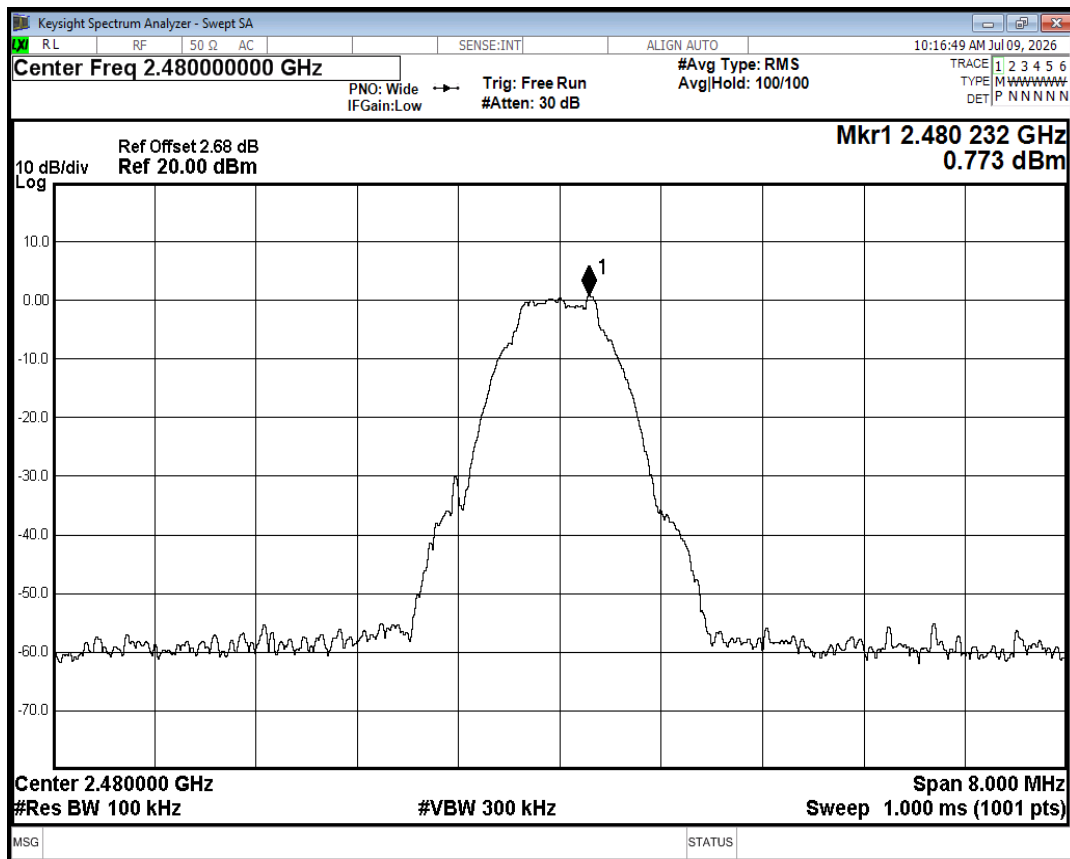
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.89	-20	Pass
NVNT	BLE 1M	2480	Ant1	-57.48	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.06	-20	Pass
NVNT	BLE 2M	2480	Ant1	-56.38	-20	Pass



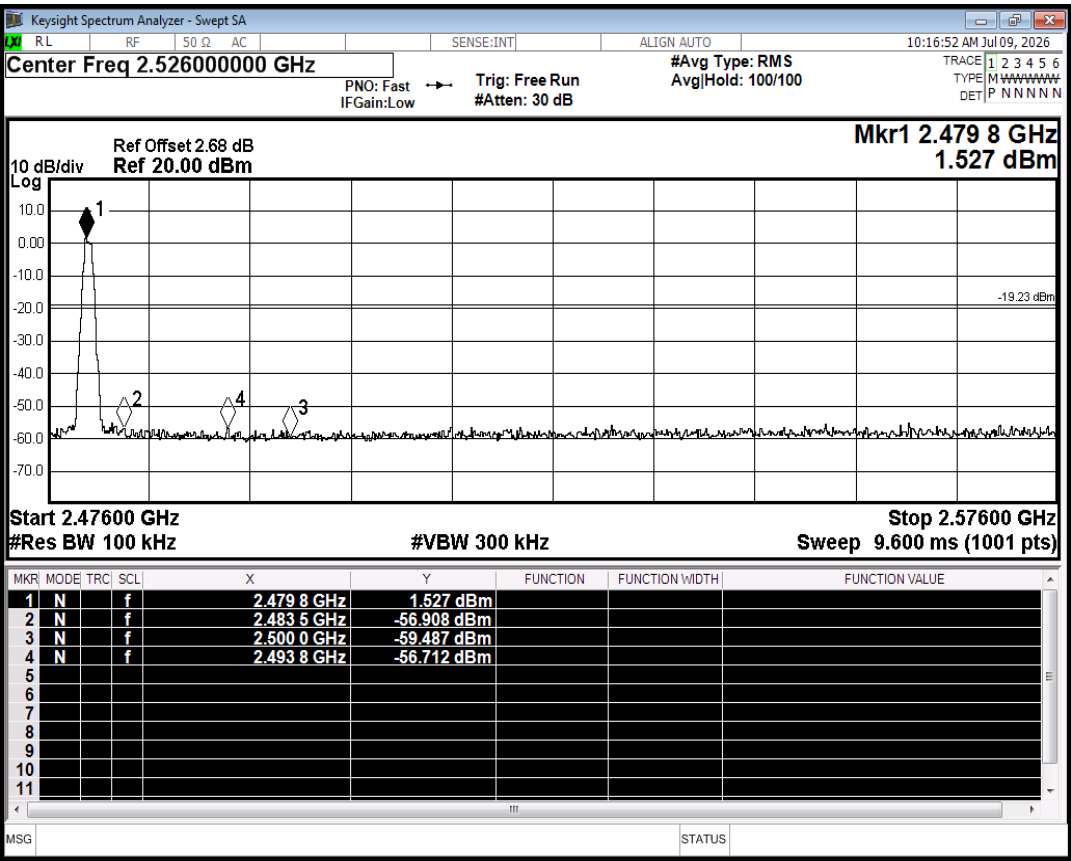
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



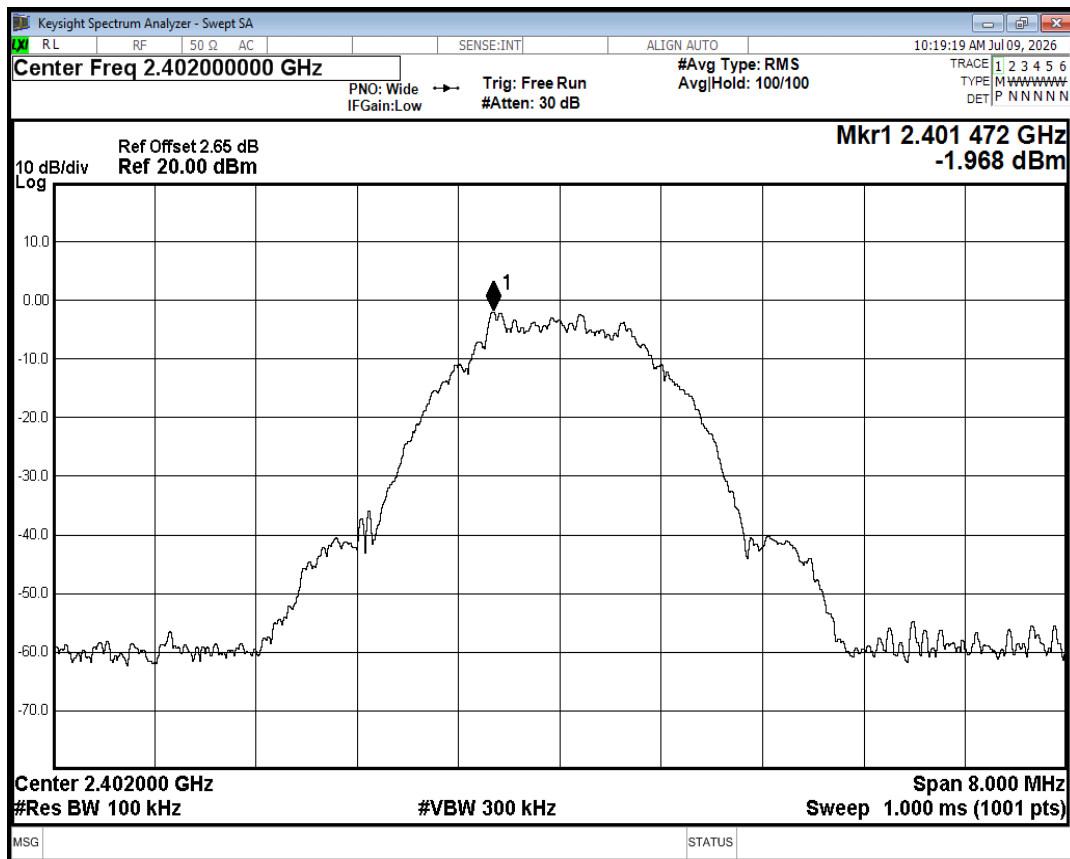
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



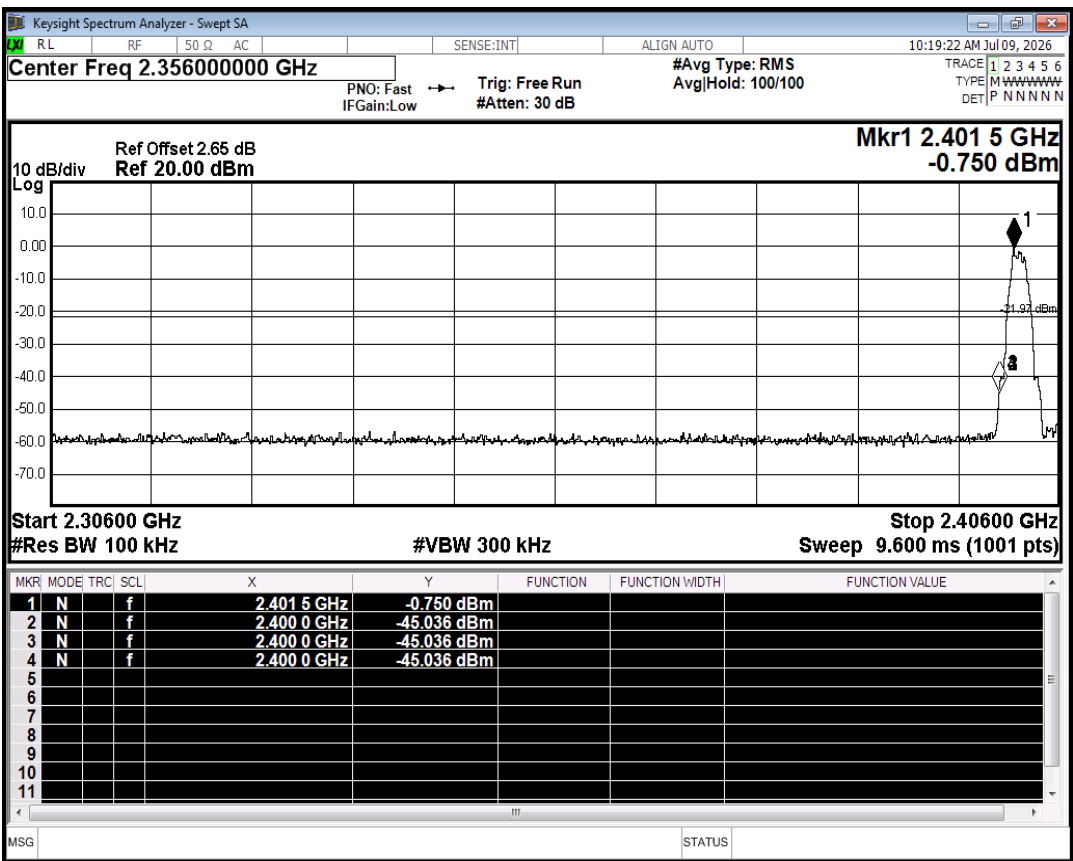
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



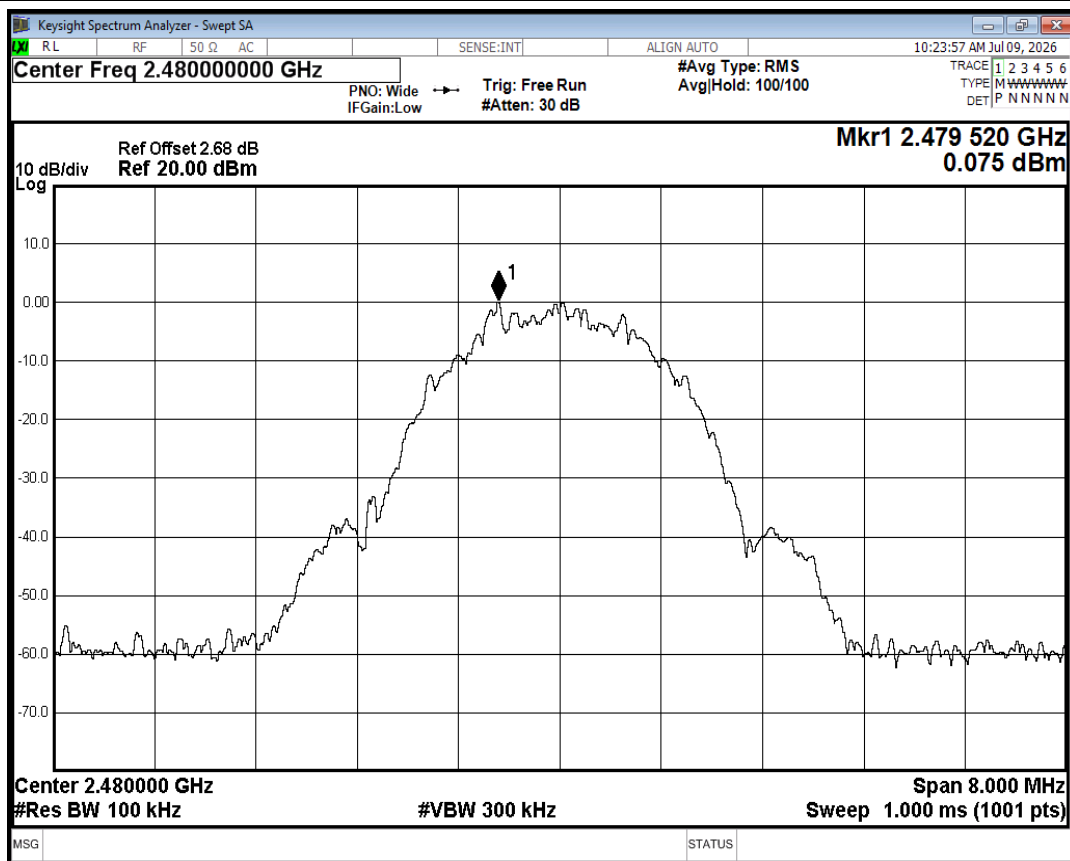
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



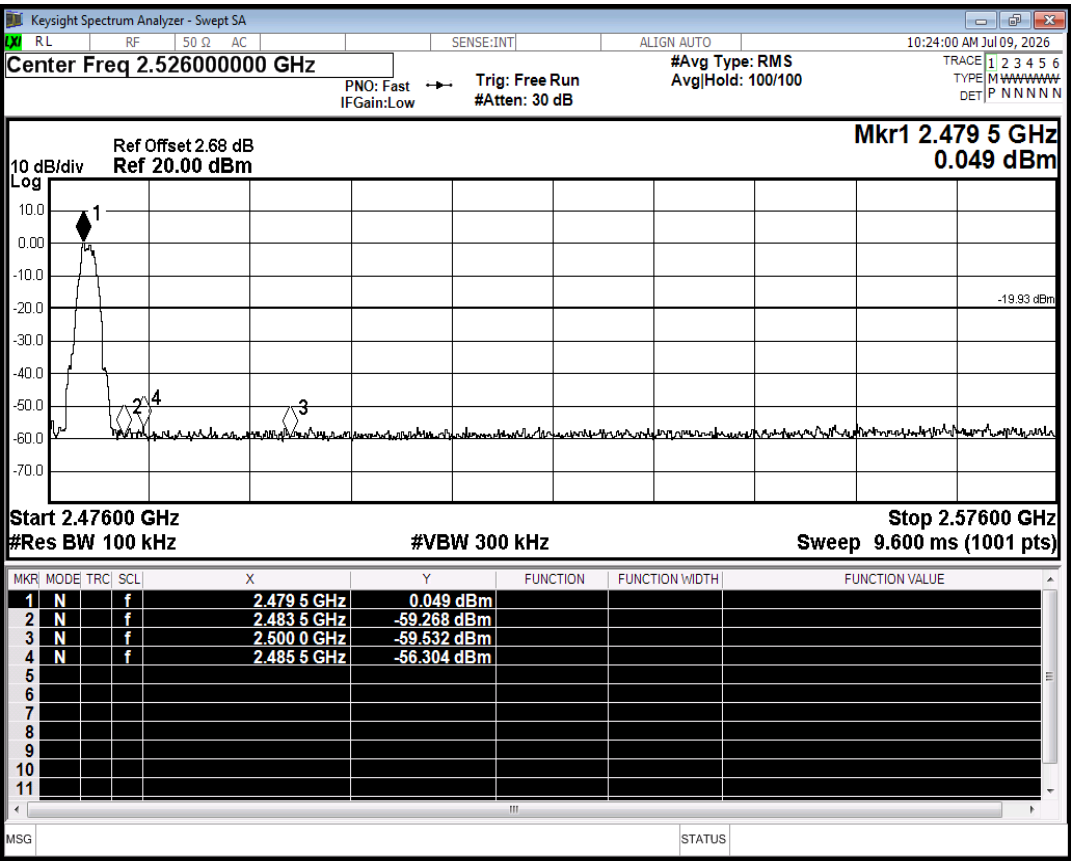
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



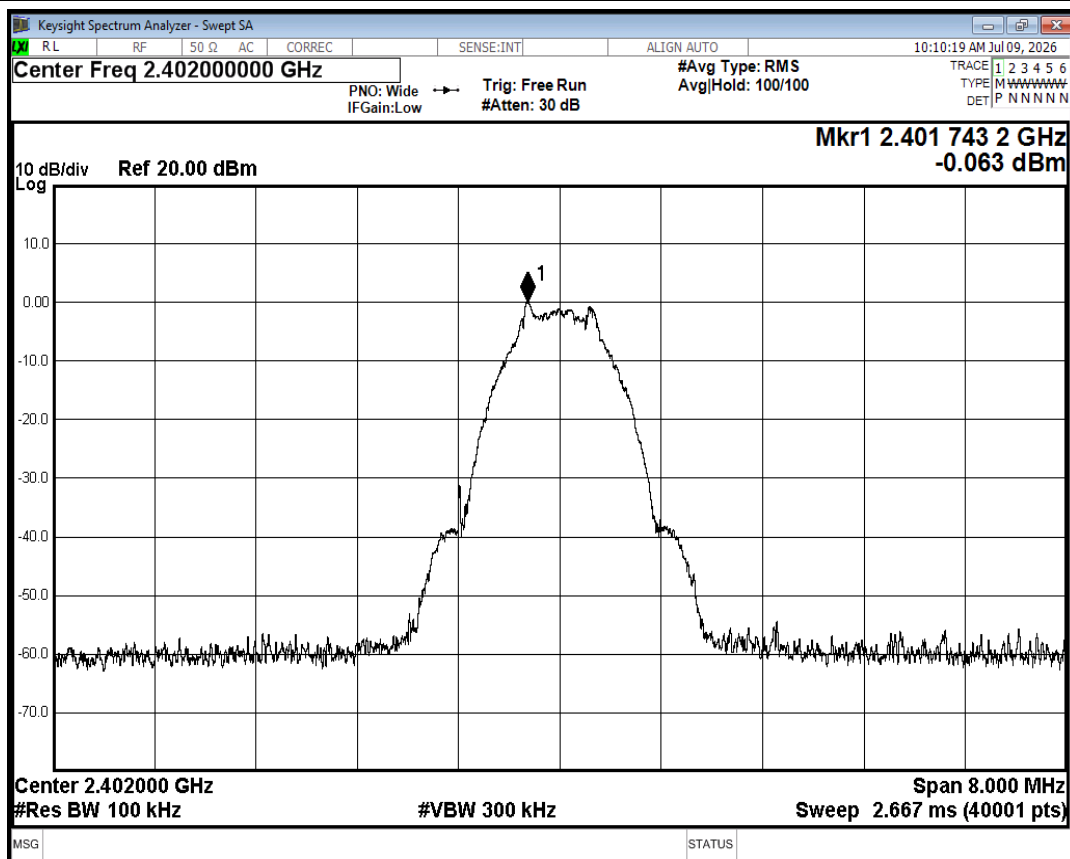
Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



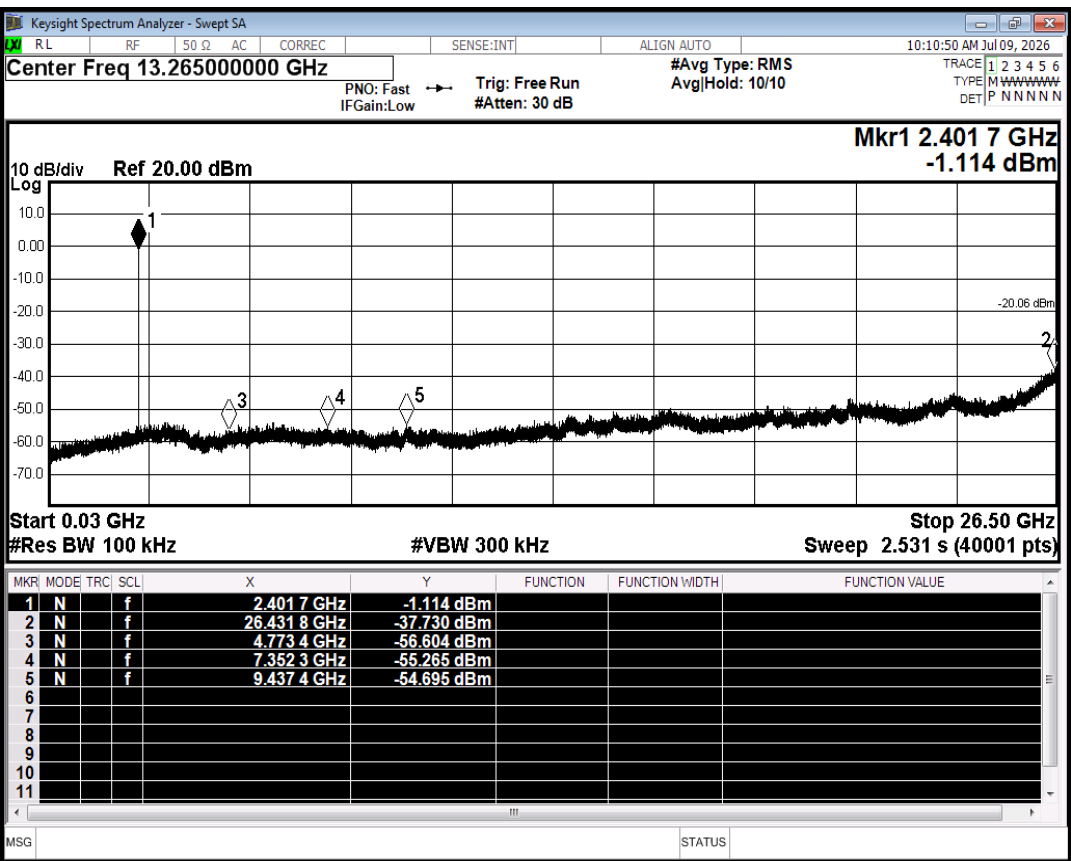
Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

B.5 Conducted RF Spurious Emission

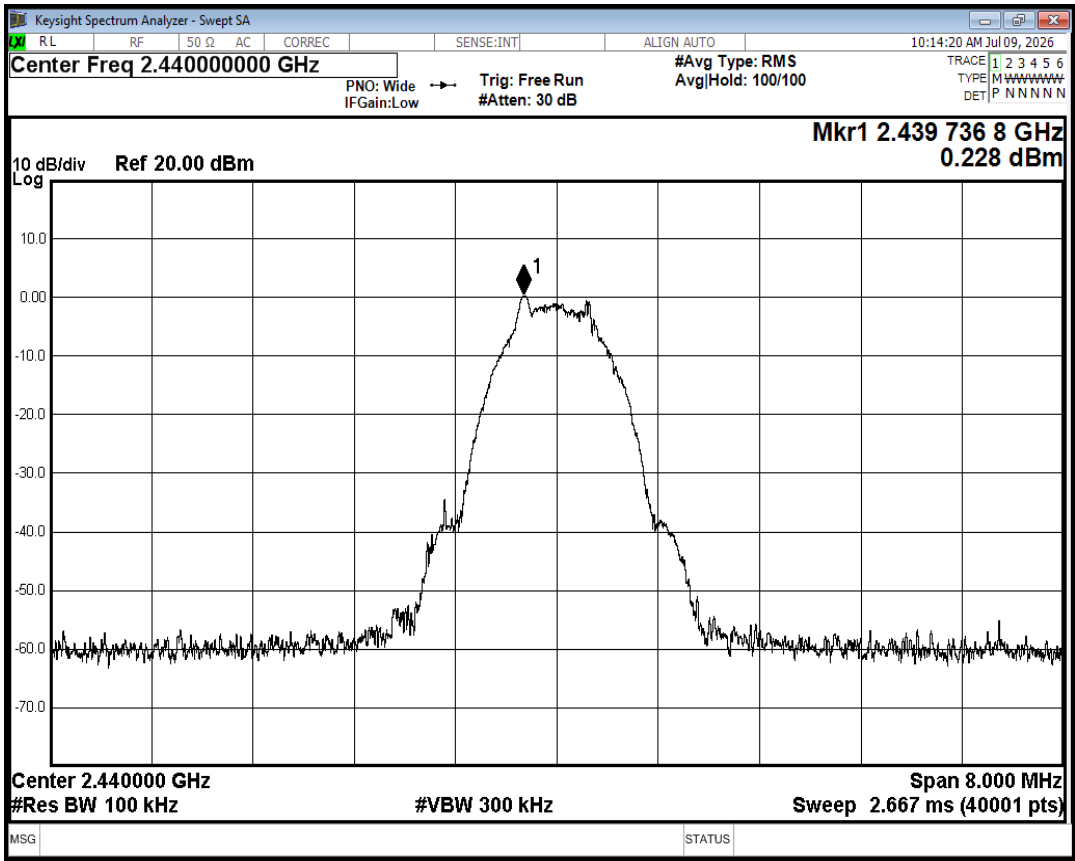
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-37.67	-20	Pass
NVNT	BLE 1M	2440	Ant1	-38.02	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.09	-20	Pass
NVNT	BLE 2M	2402	Ant1	-45.98	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.78	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.91	-20	Pass



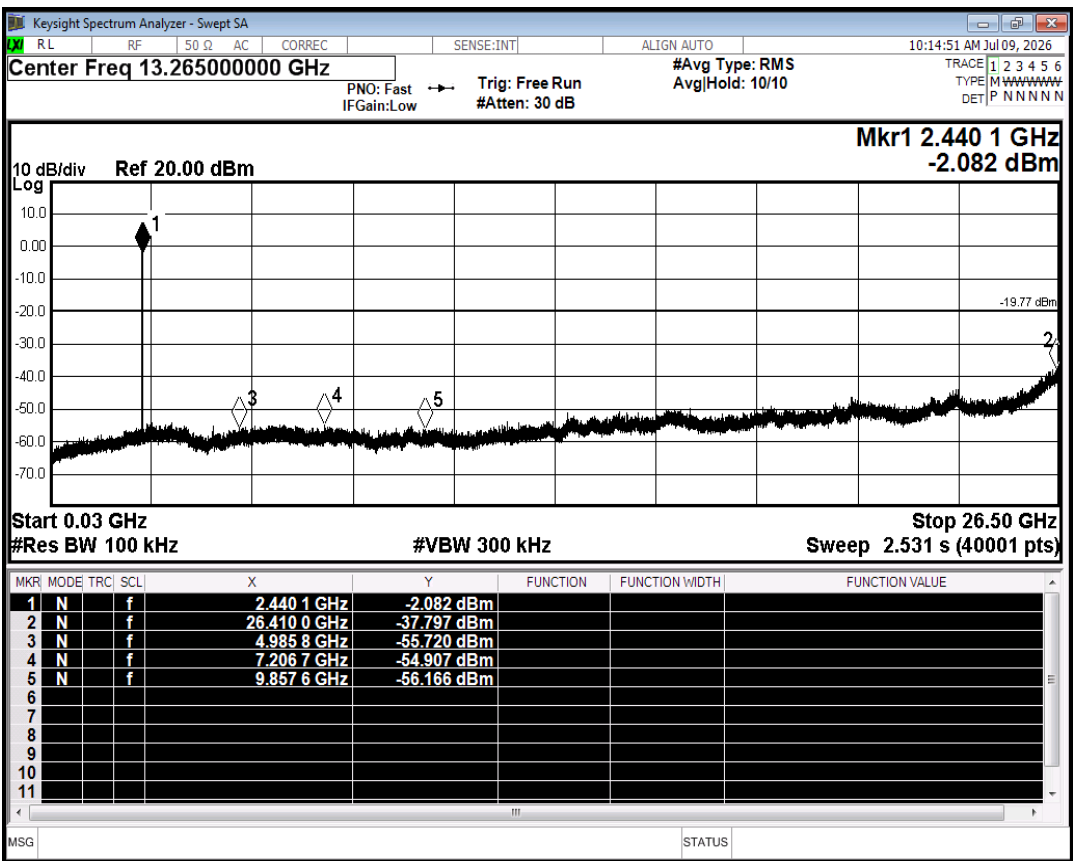
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



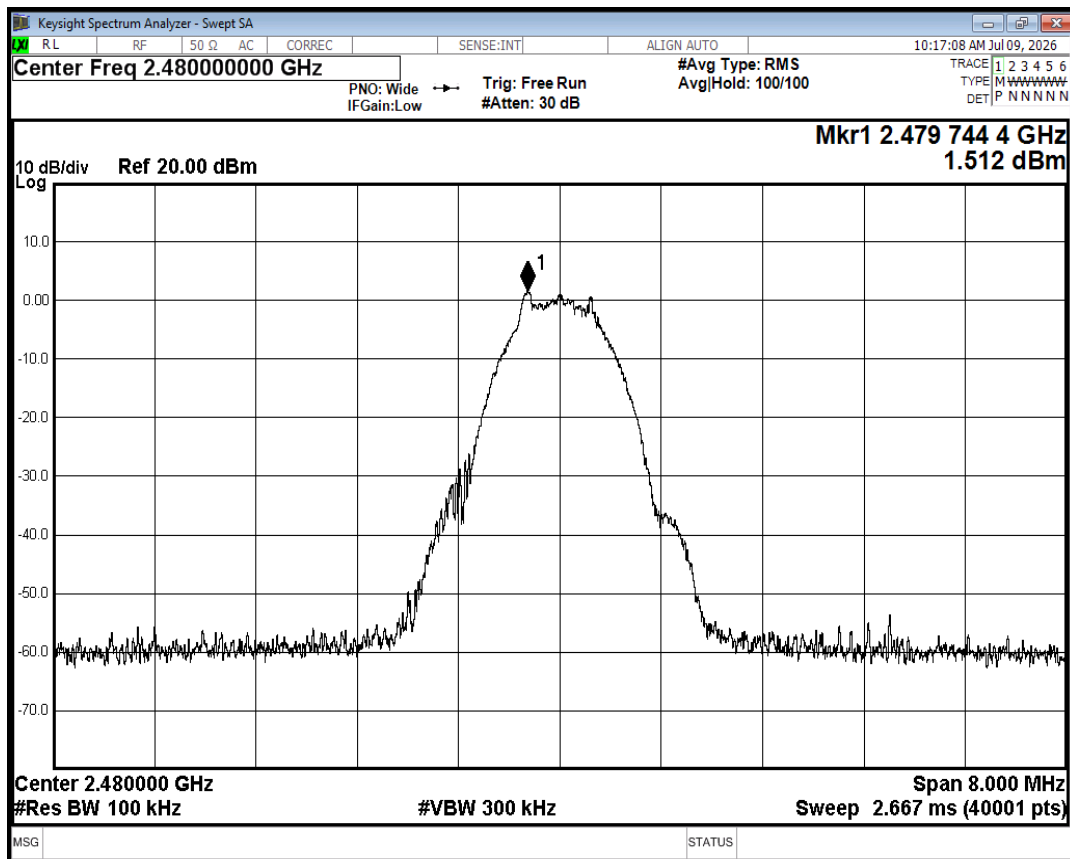
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



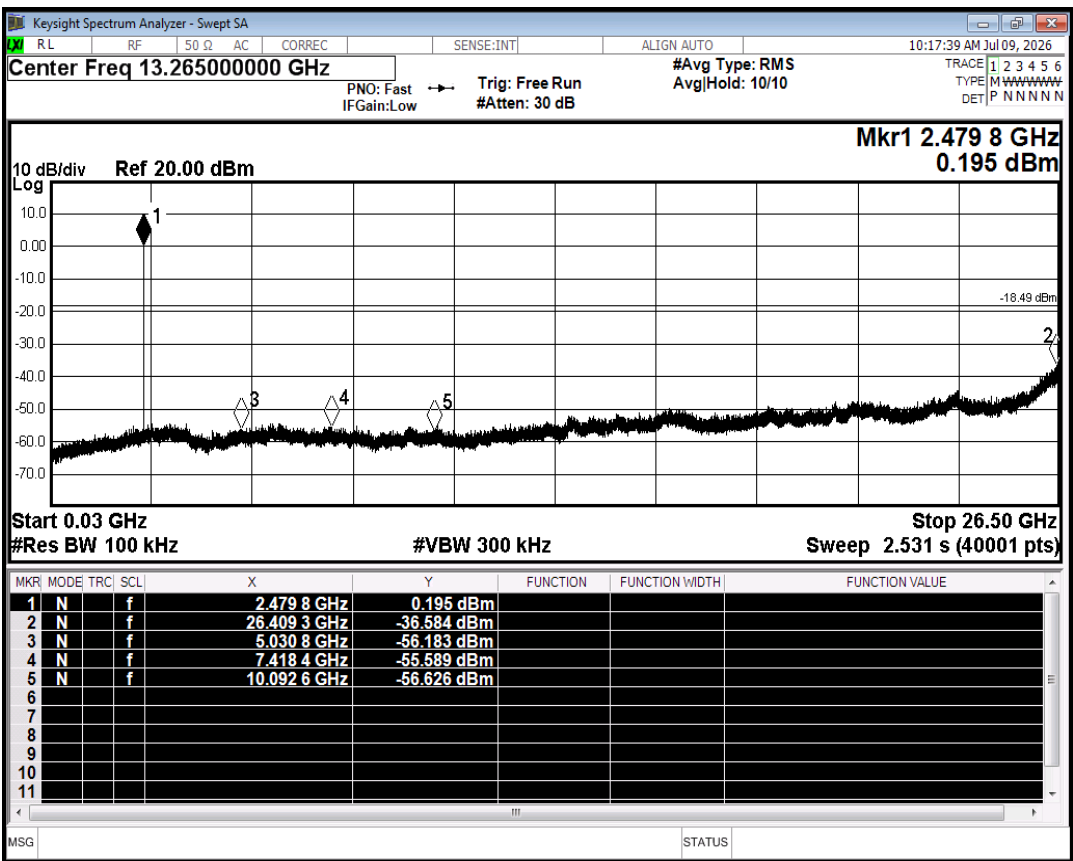
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



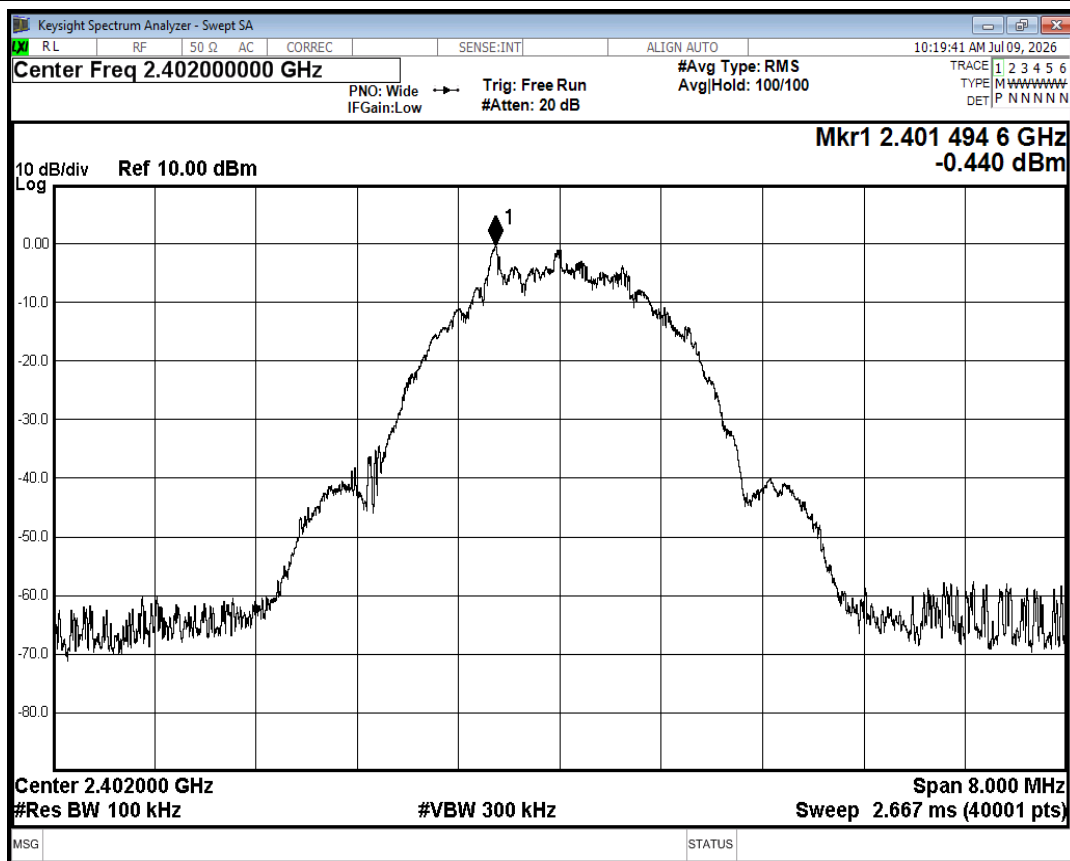
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



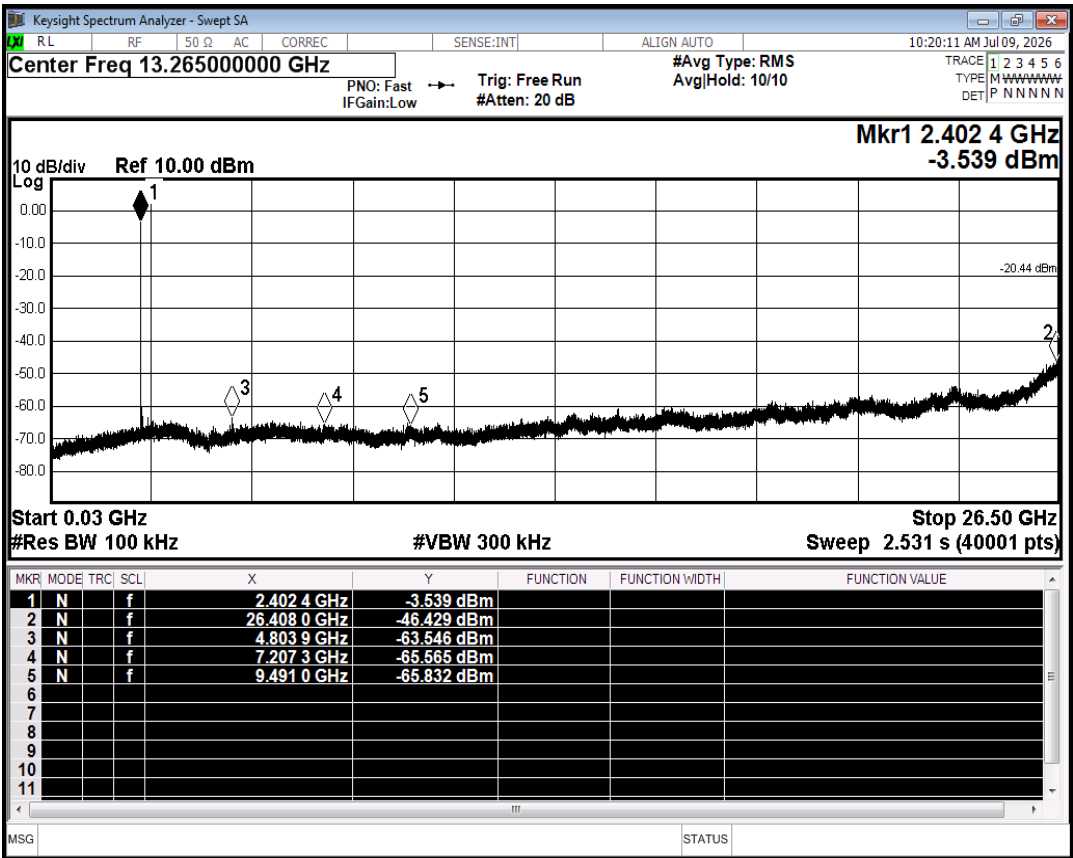
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



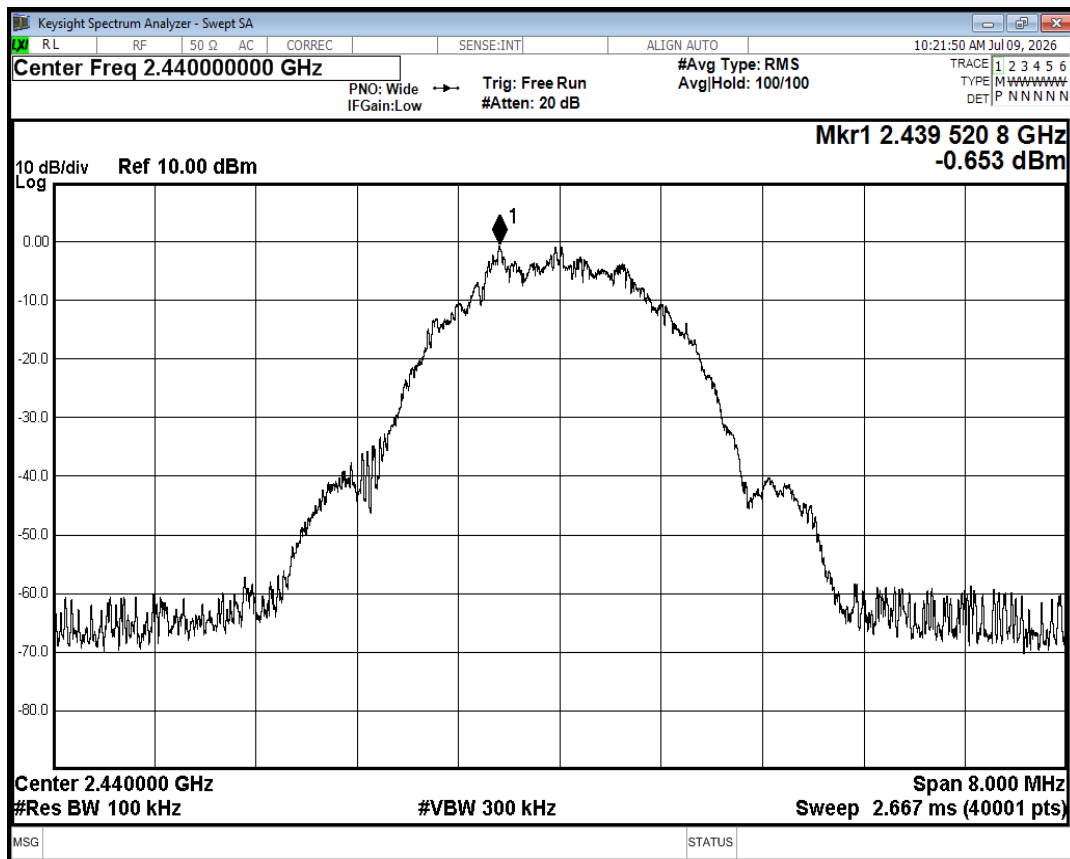
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



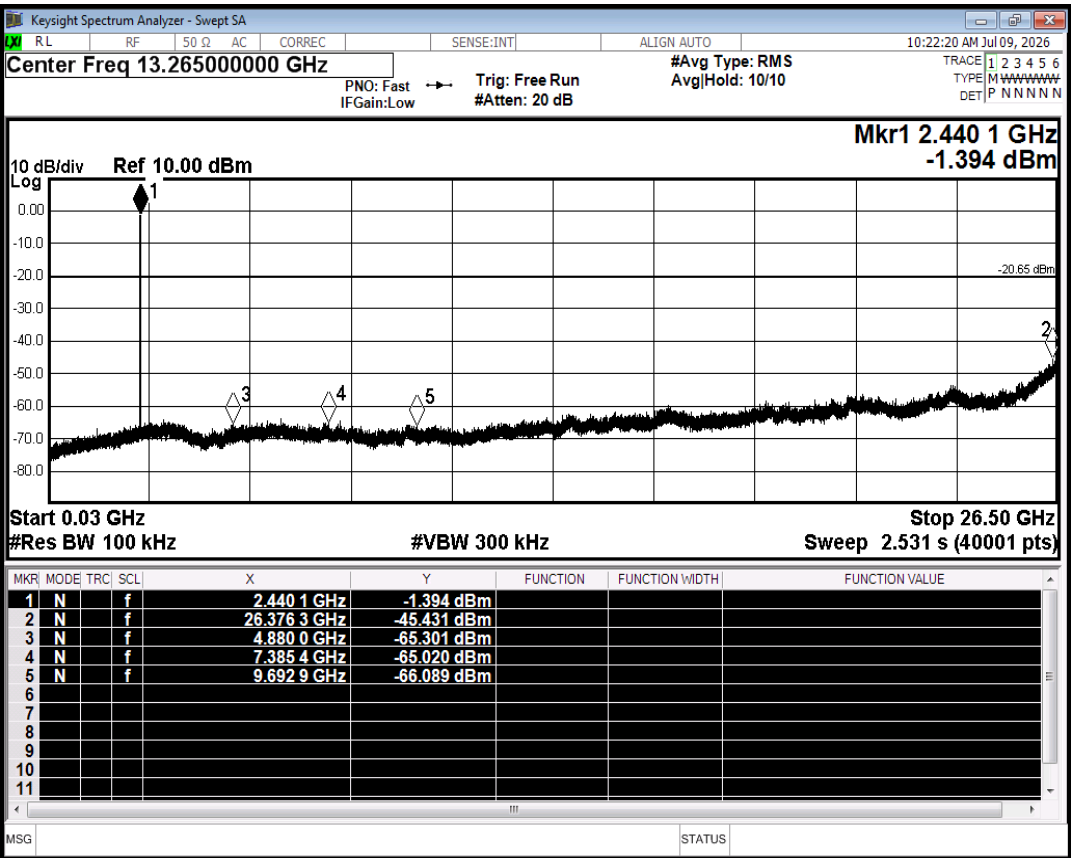
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



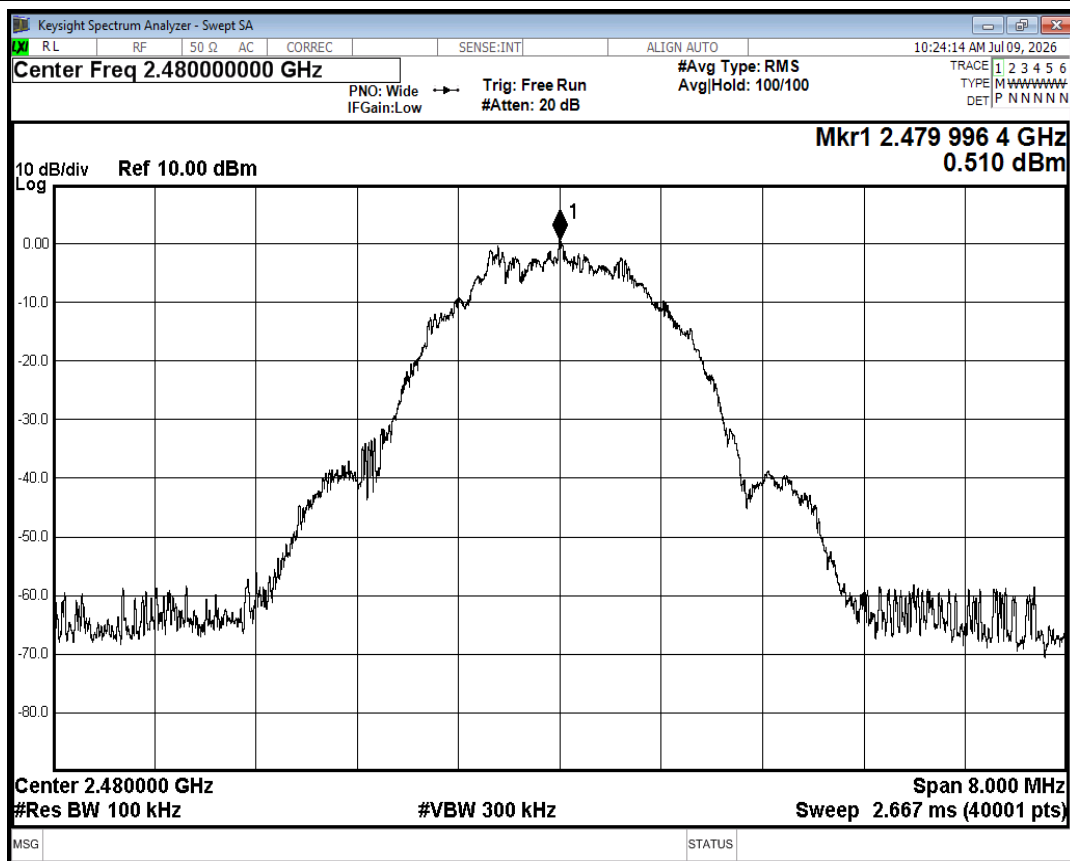
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



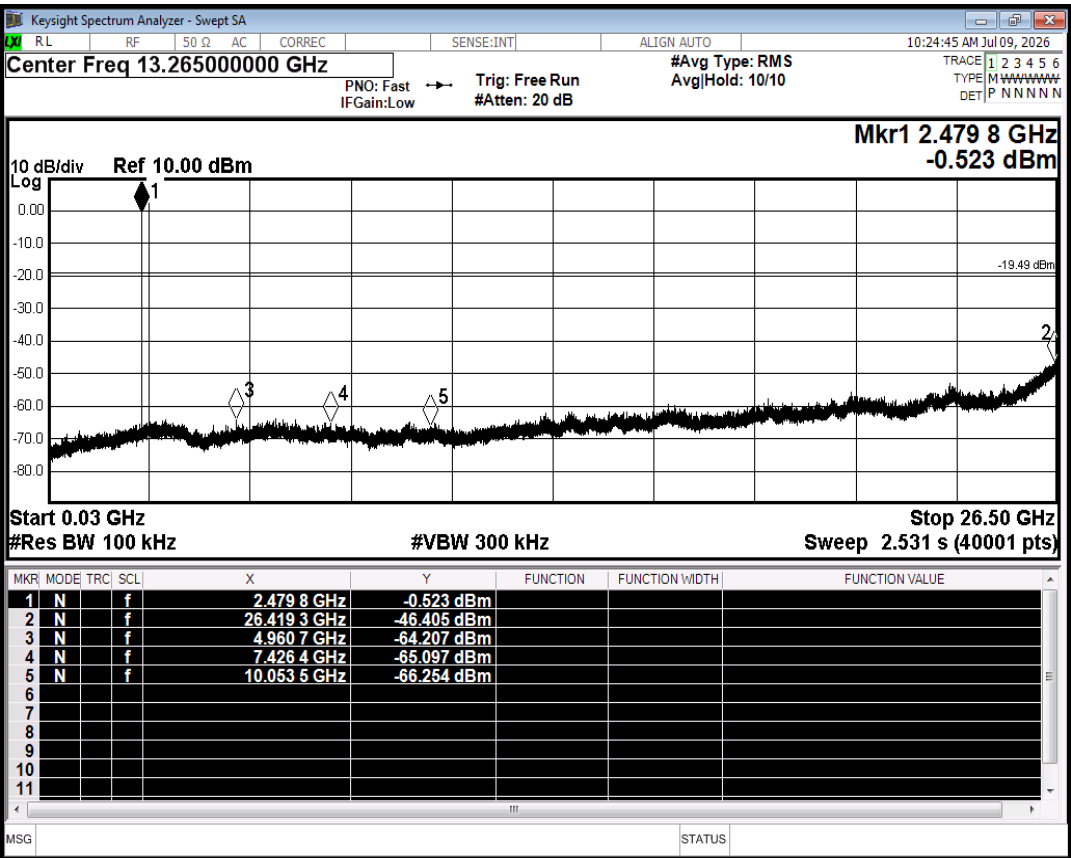
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



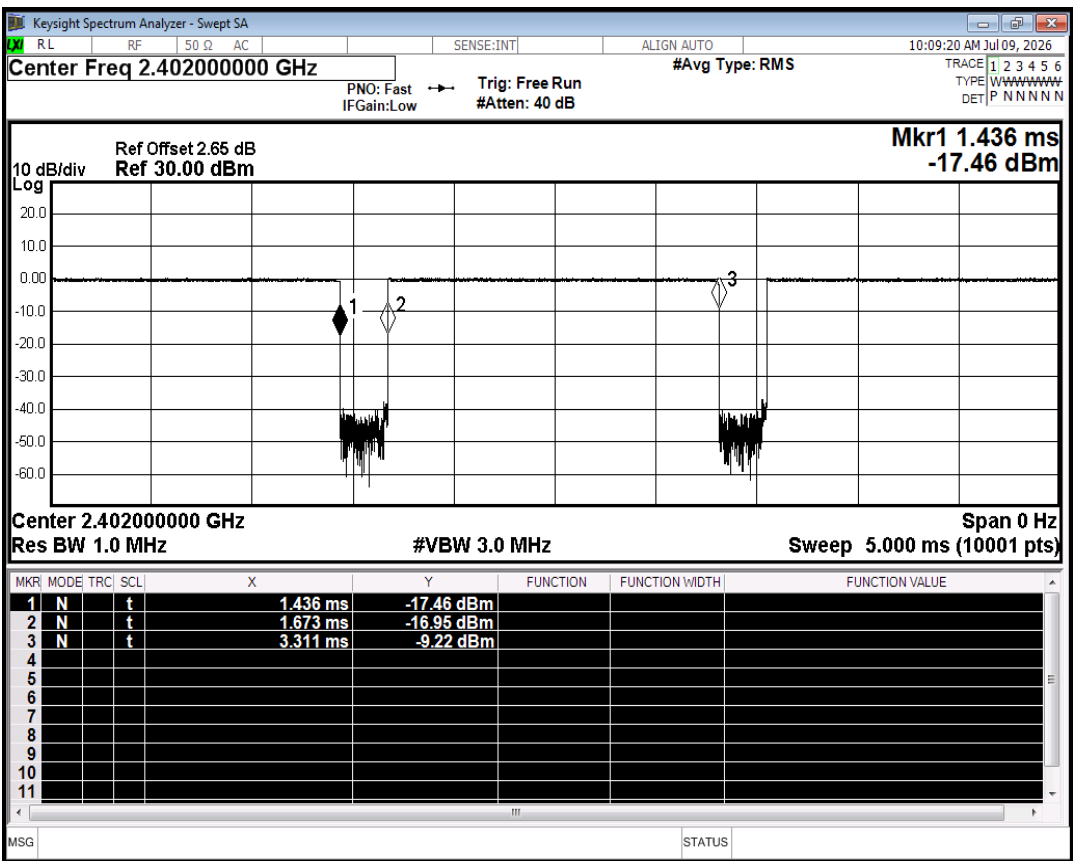
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



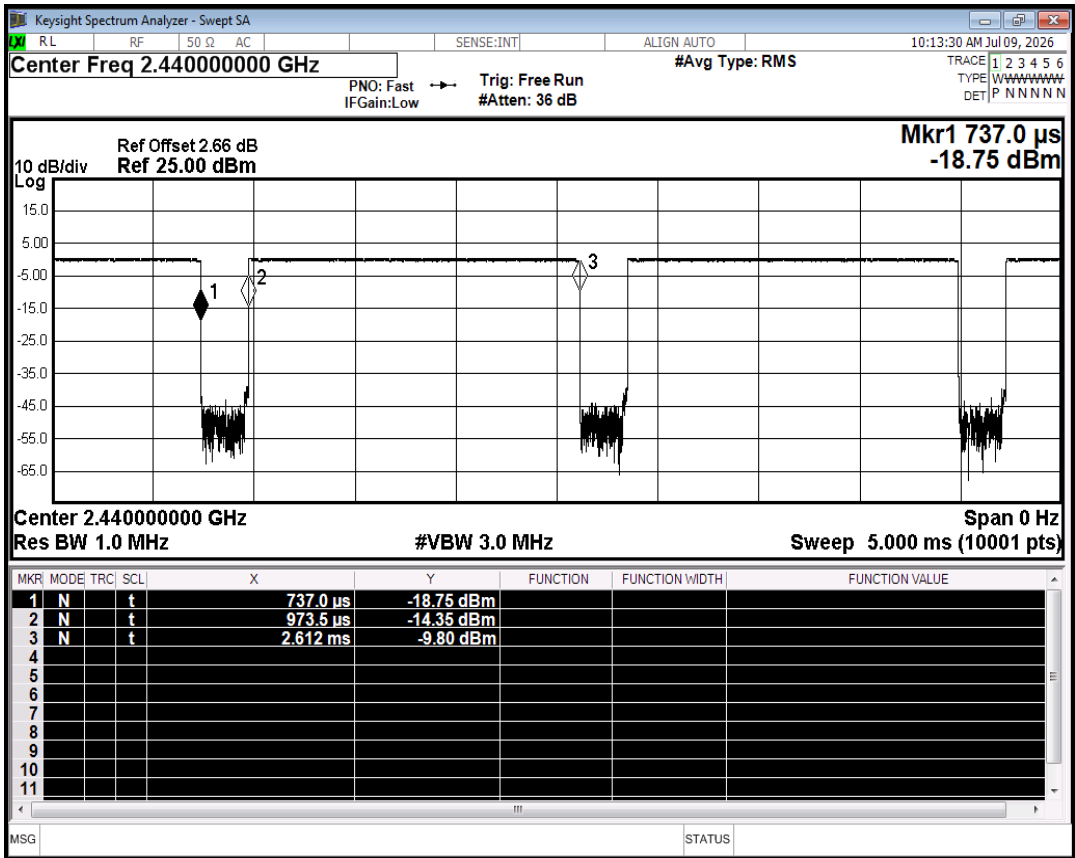
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

B.6 Duty Cycle

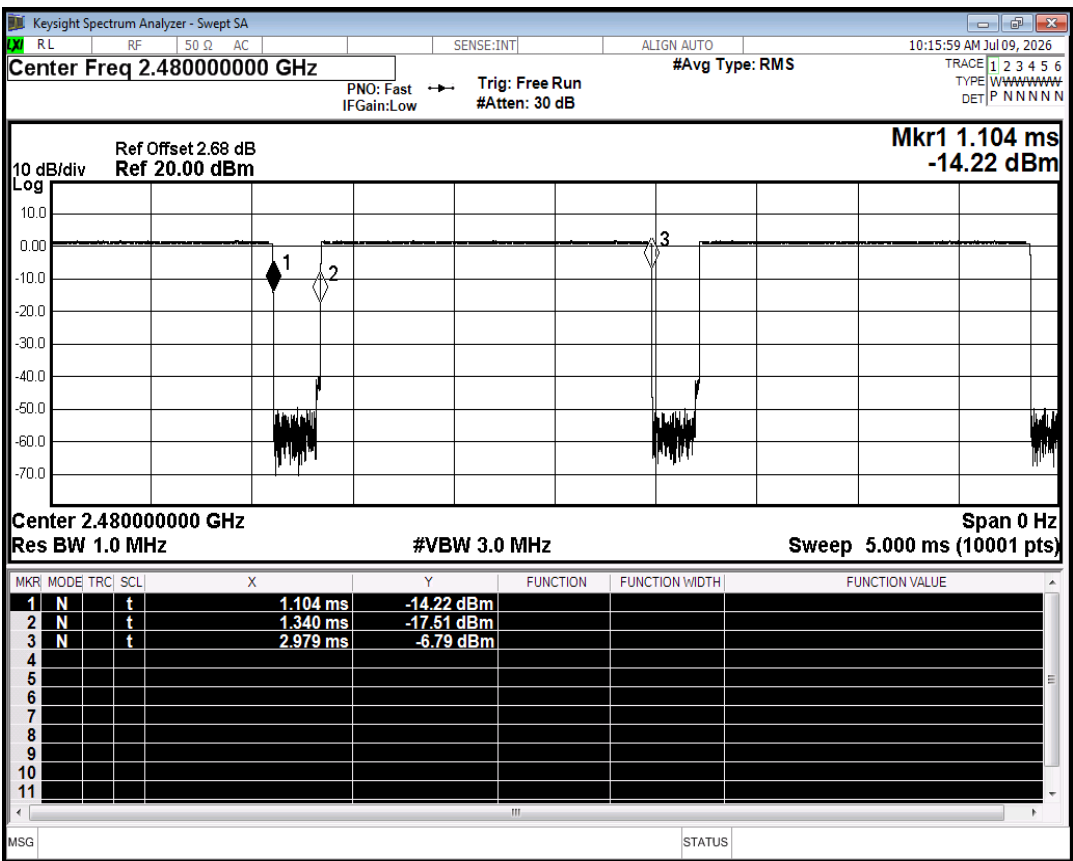
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant1	65.92	1.81	1.21
NVNT	BLE 2M	2440	Ant1	65.92	1.81	1.21
NVNT	BLE 2M	2480	Ant1	65.92	1.81	1.21



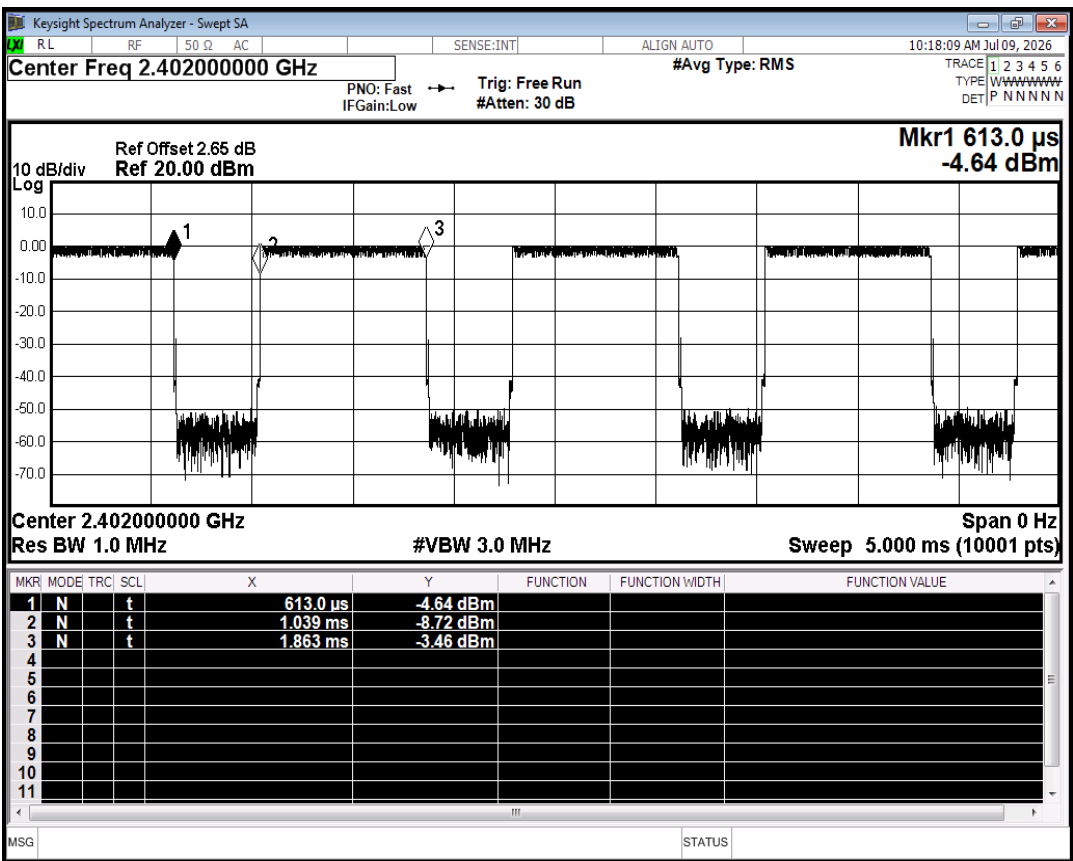
Duty Cycle NVNT BLE 1M 2402MHz Ant1



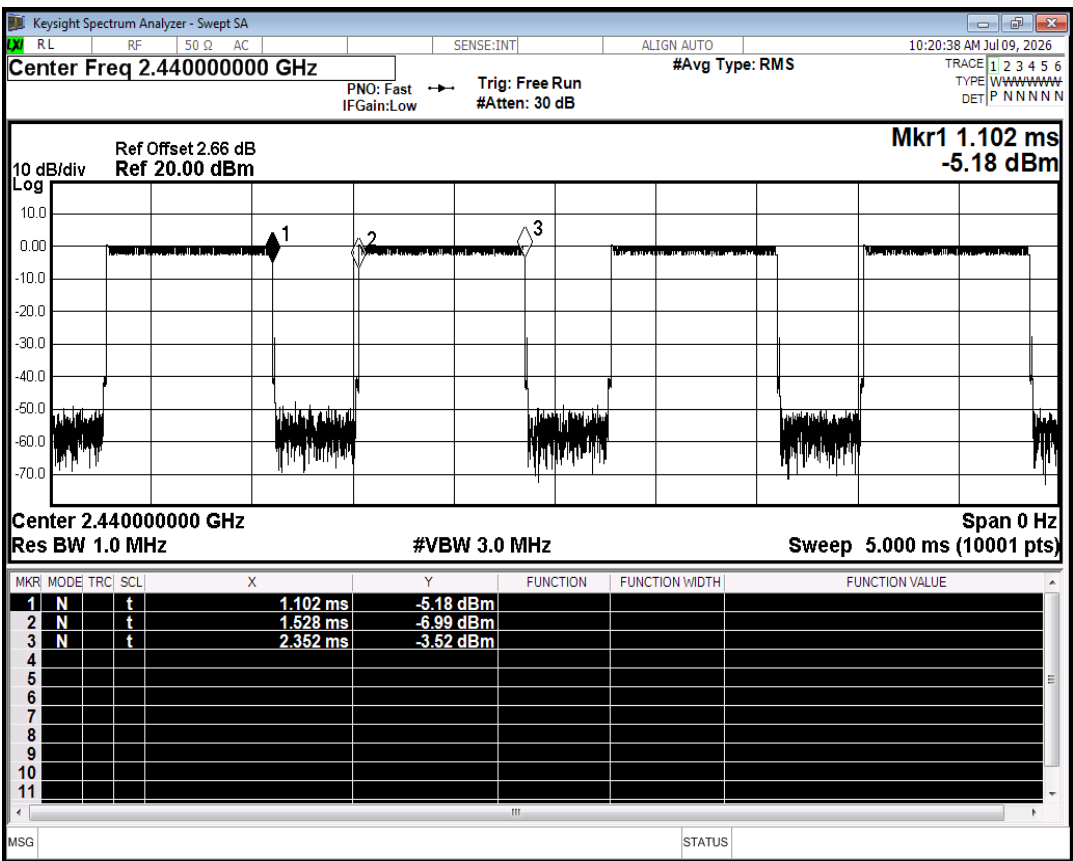
Duty Cycle NVNT BLE 1M 2440MHz Ant1



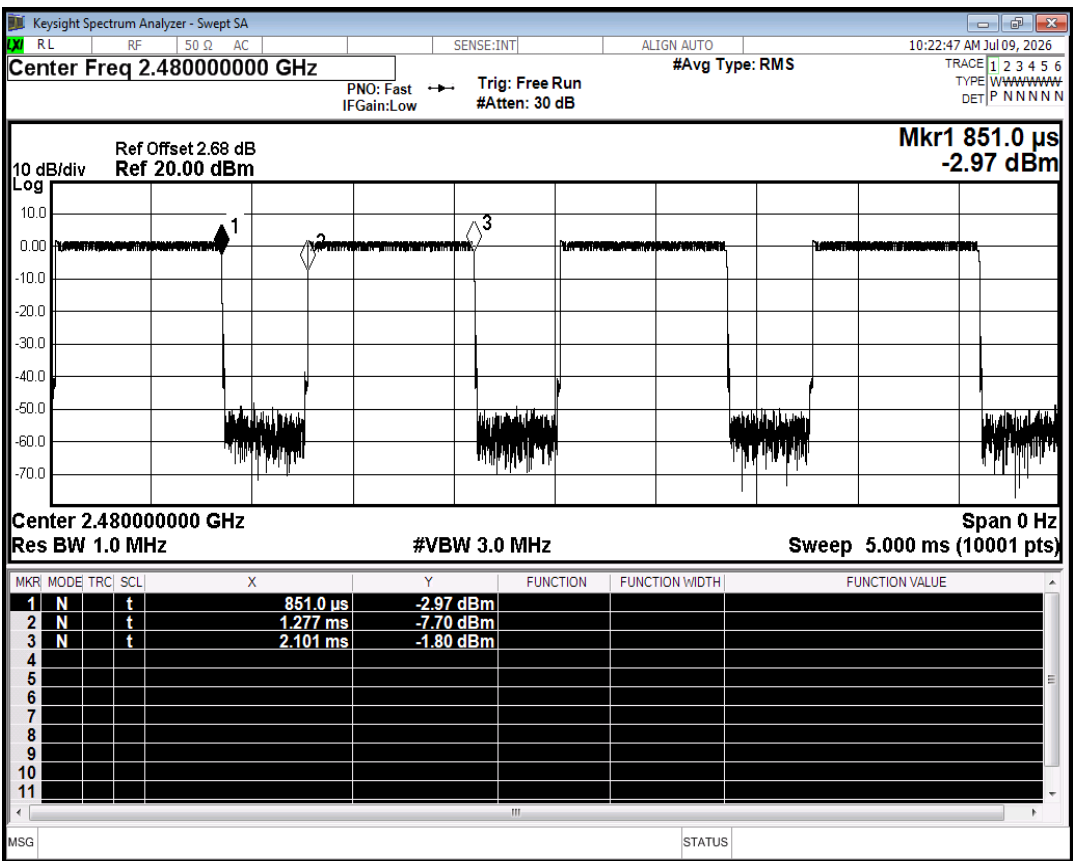
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



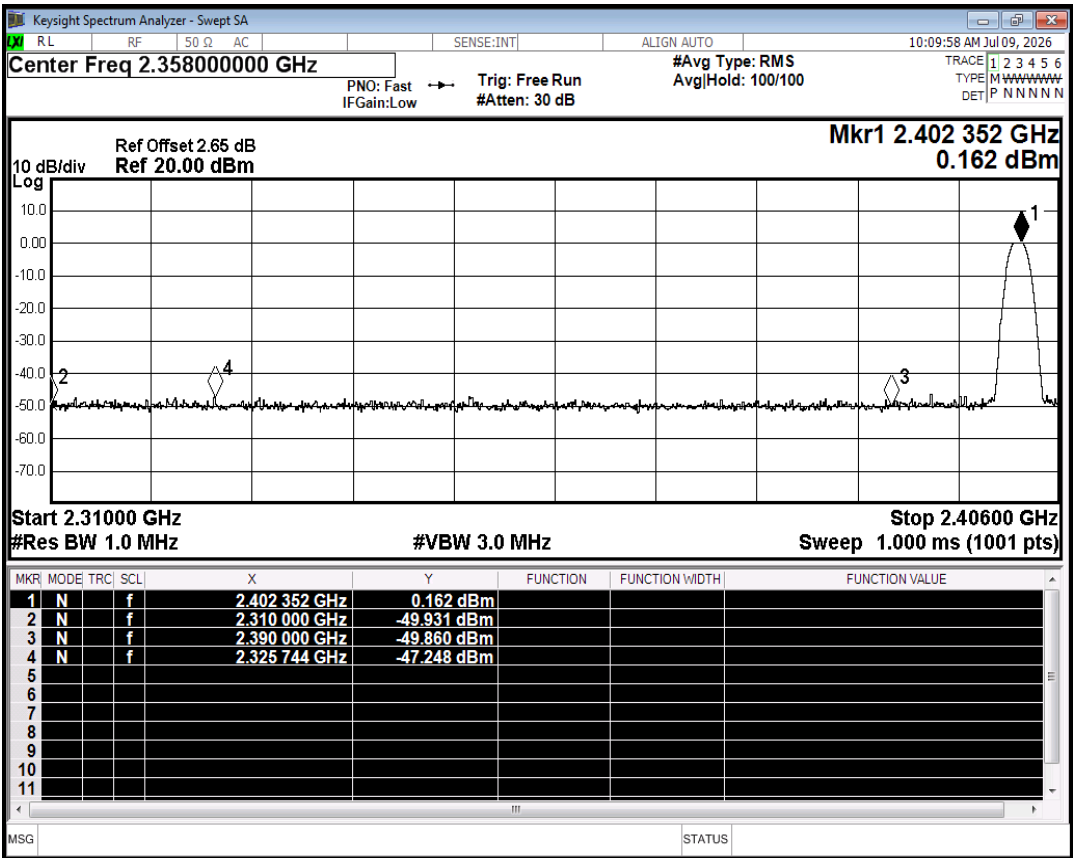
Duty Cycle NVNT BLE 2M 2440MHz Ant1



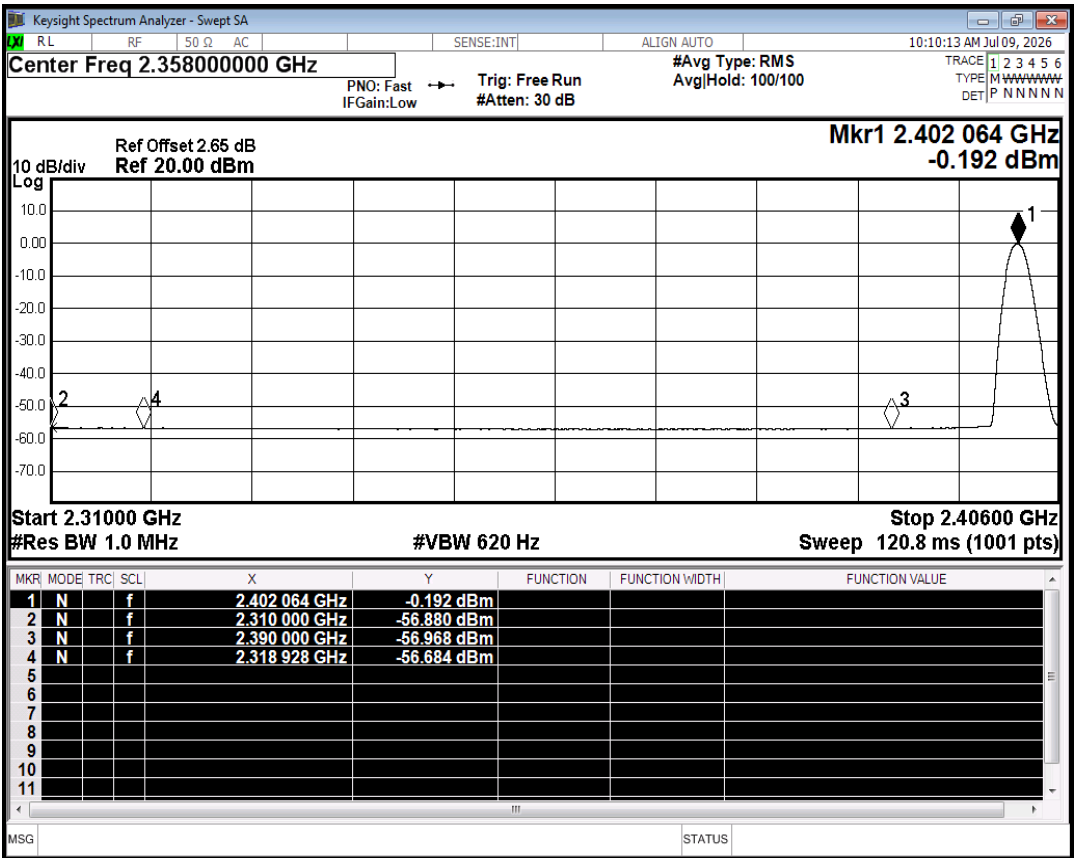
Duty Cycle NVNT BLE 2M 2480MHz Ant1

B.7 Restrict Band

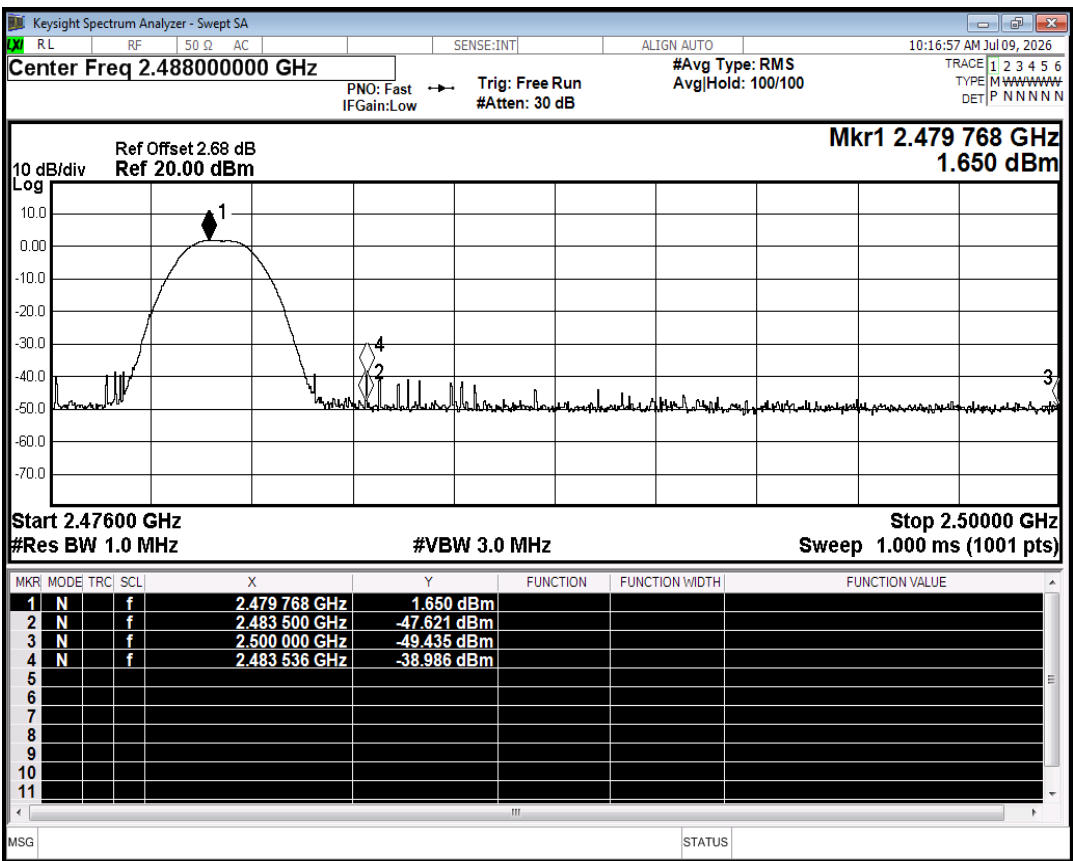
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.93	2.22	47.55	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-56.87	2.22	40.61	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2325.744	-47.24	2.22	50.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2318.928	-56.68	2.22	40.80	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.01	2.22	47.47	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-56.93	2.22	40.55	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-47.62	2.22	49.86	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-54.18	2.22	43.30	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.536	-38.98	2.22	58.50	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-54.18	2.22	43.30	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.43	2.22	48.05	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-56.86	2.22	40.62	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.86	2.22	46.62	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-56.48	2.22	41.00	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2341.296	-46.72	2.22	50.76	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2314.704	-56.39	2.22	41.09	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.46	2.22	47.02	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-56.74	2.22	40.74	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.78	2.22	47.70	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-51.42	2.22	46.06	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.752	-39.26	2.22	58.22	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-51.42	2.22	46.06	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.91	2.22	47.57	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-56.51	2.22	40.97	Average	54	Pass



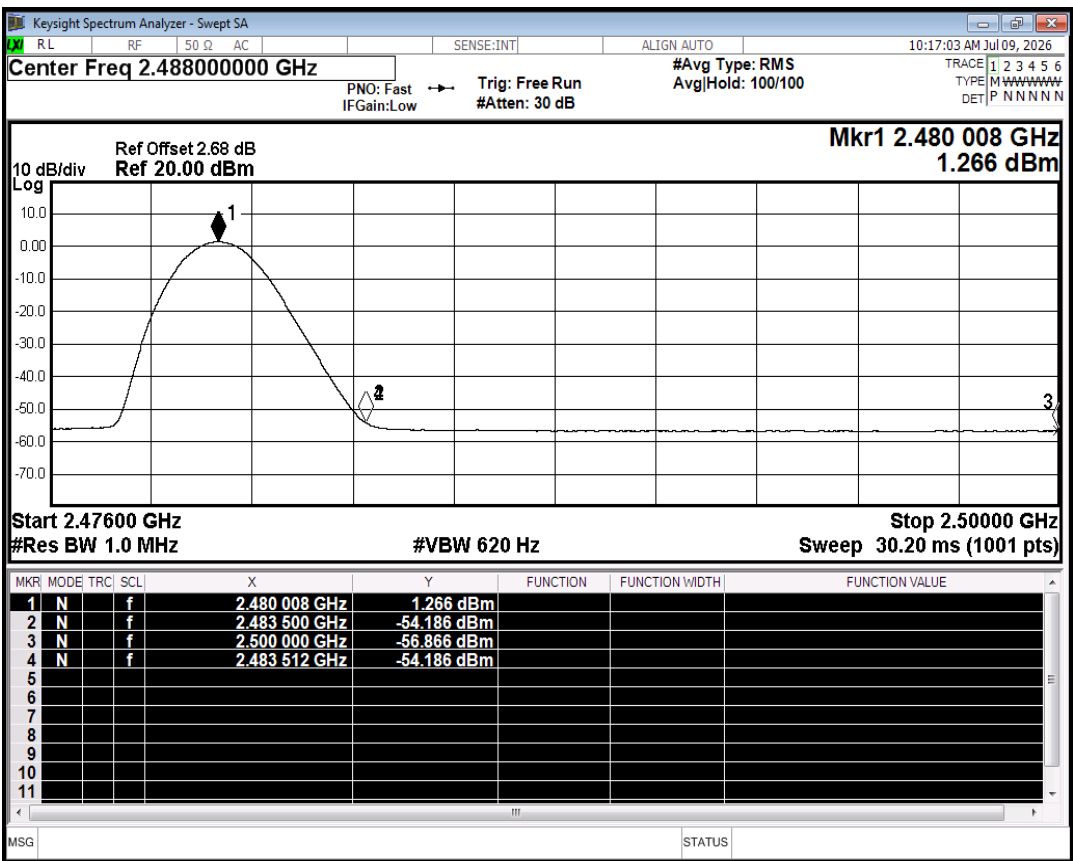
Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



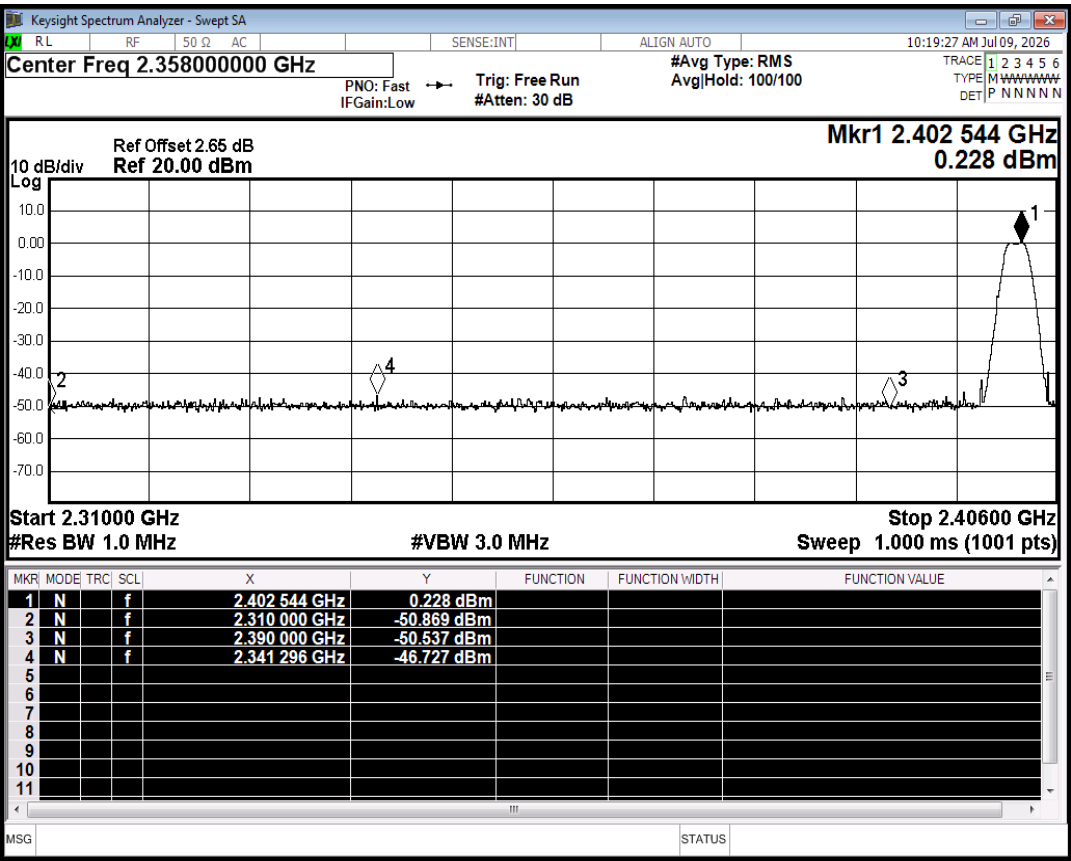
Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



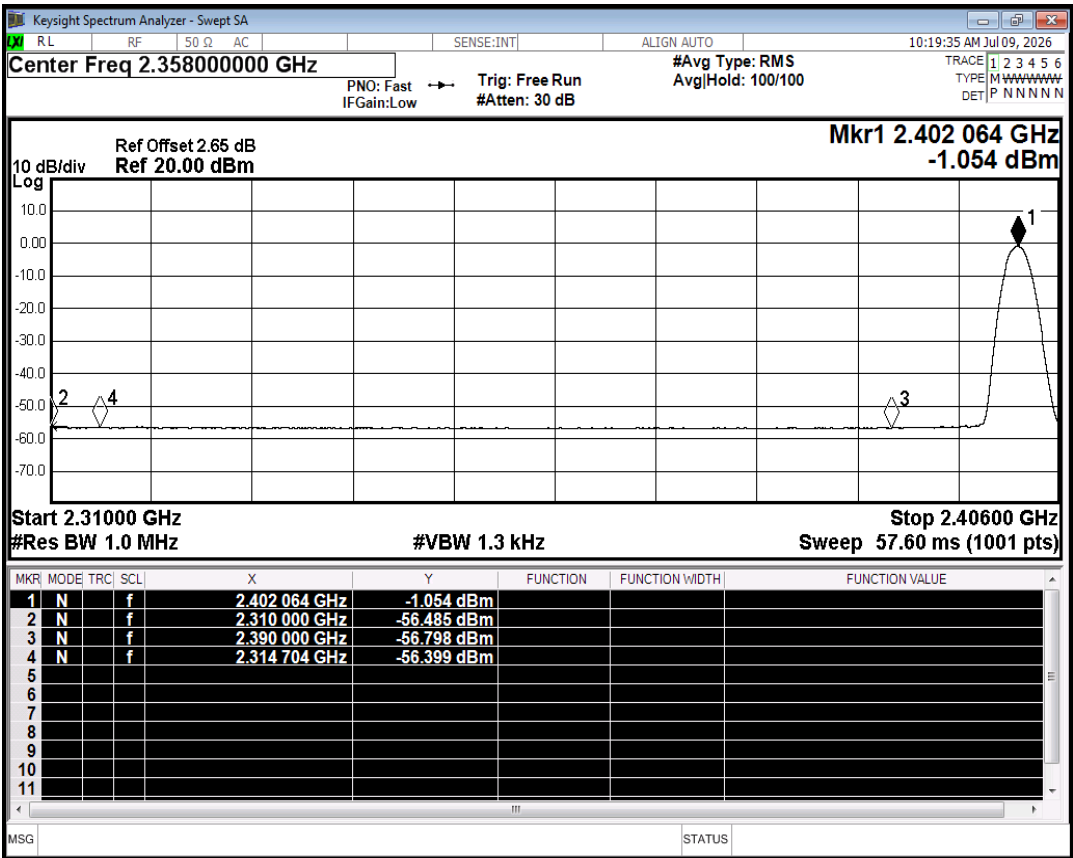
Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



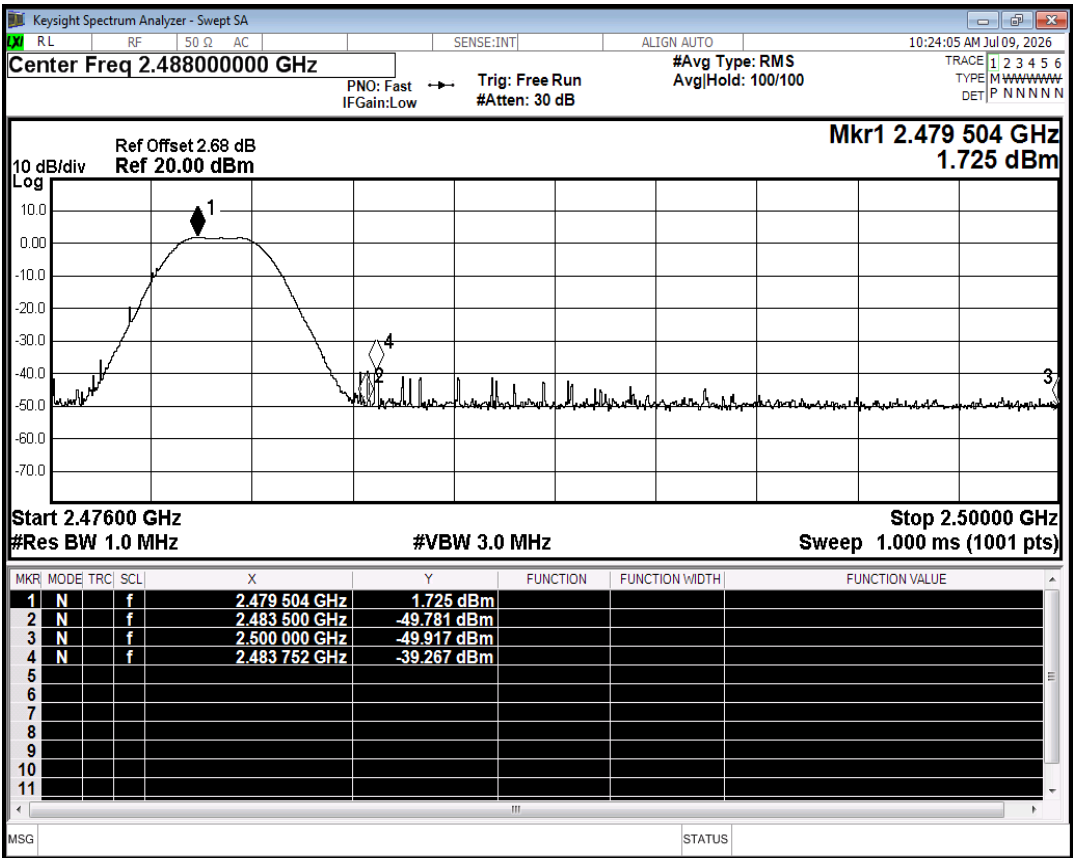
Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



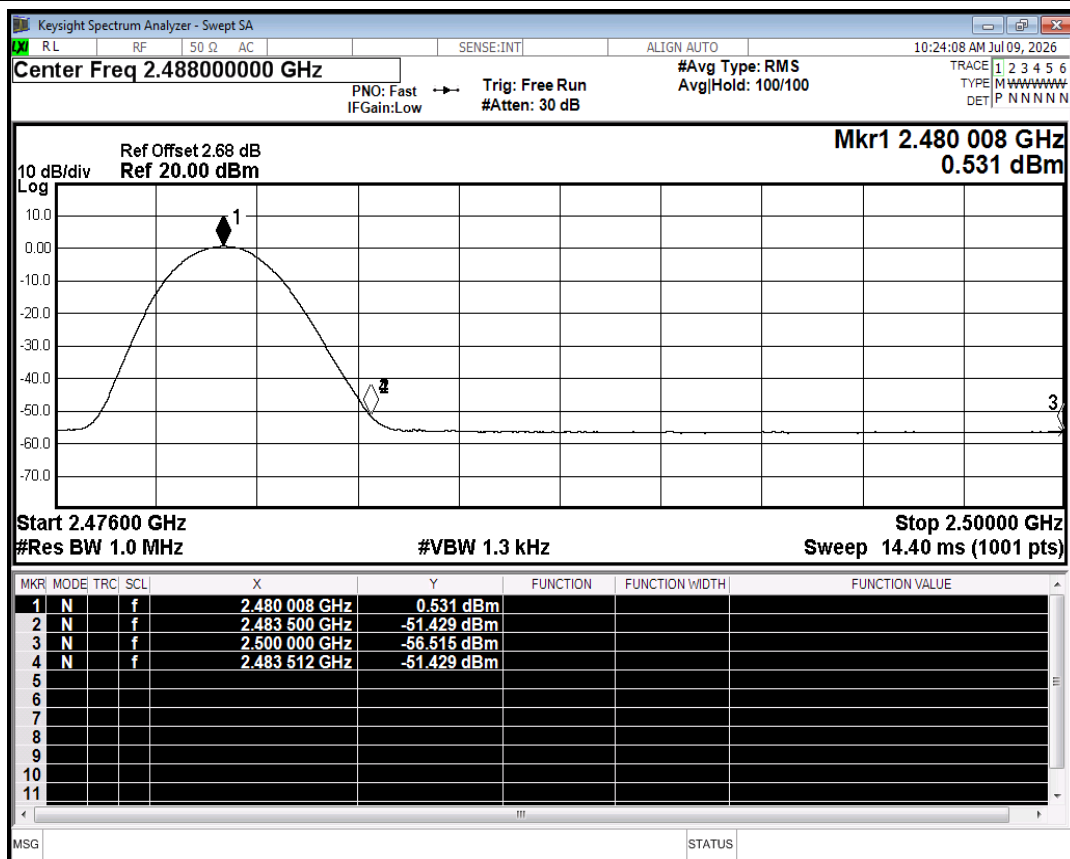
Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average