

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Wireless RGB Gaming XBOX Mic

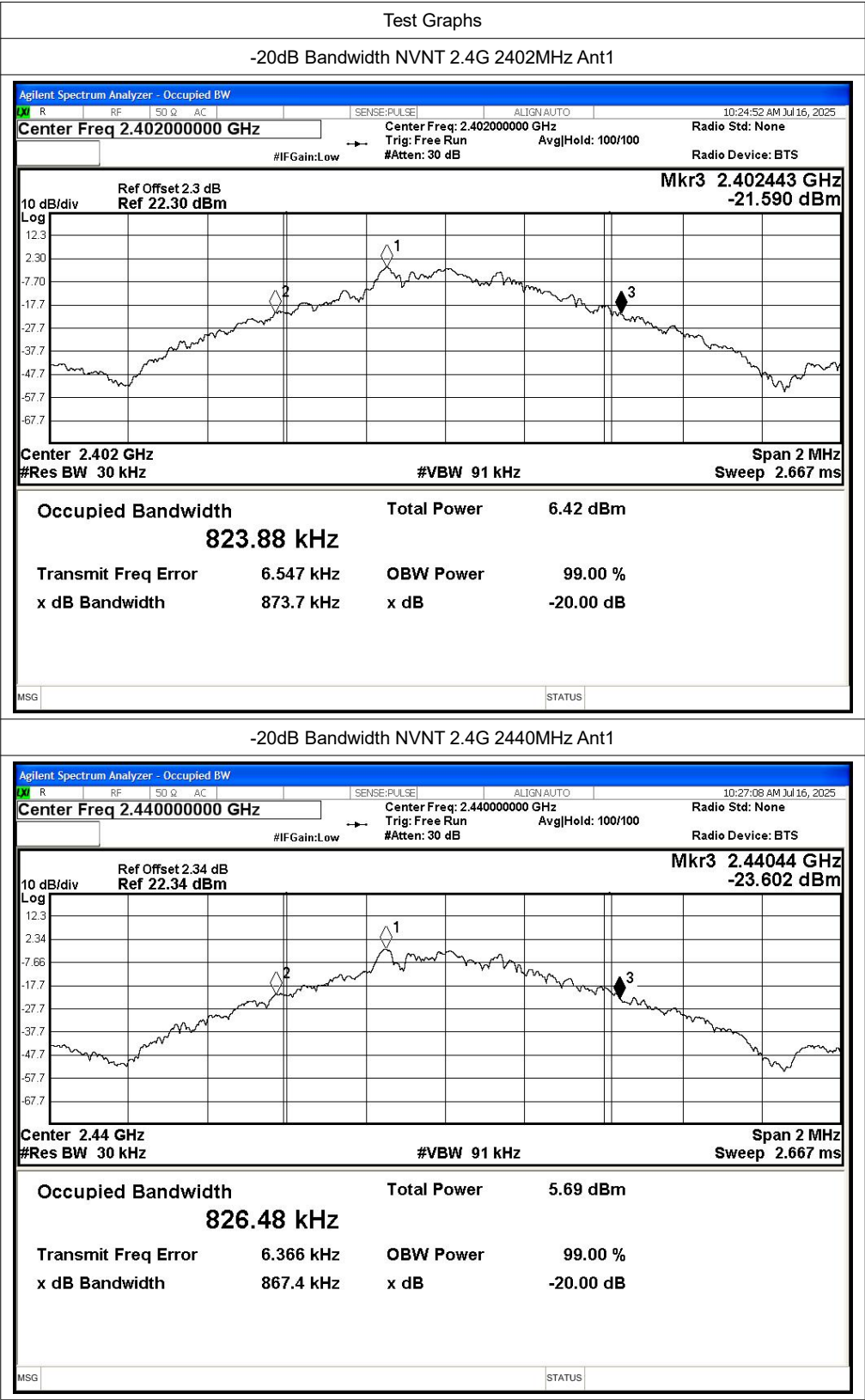
Test Model: TCX3 Flow

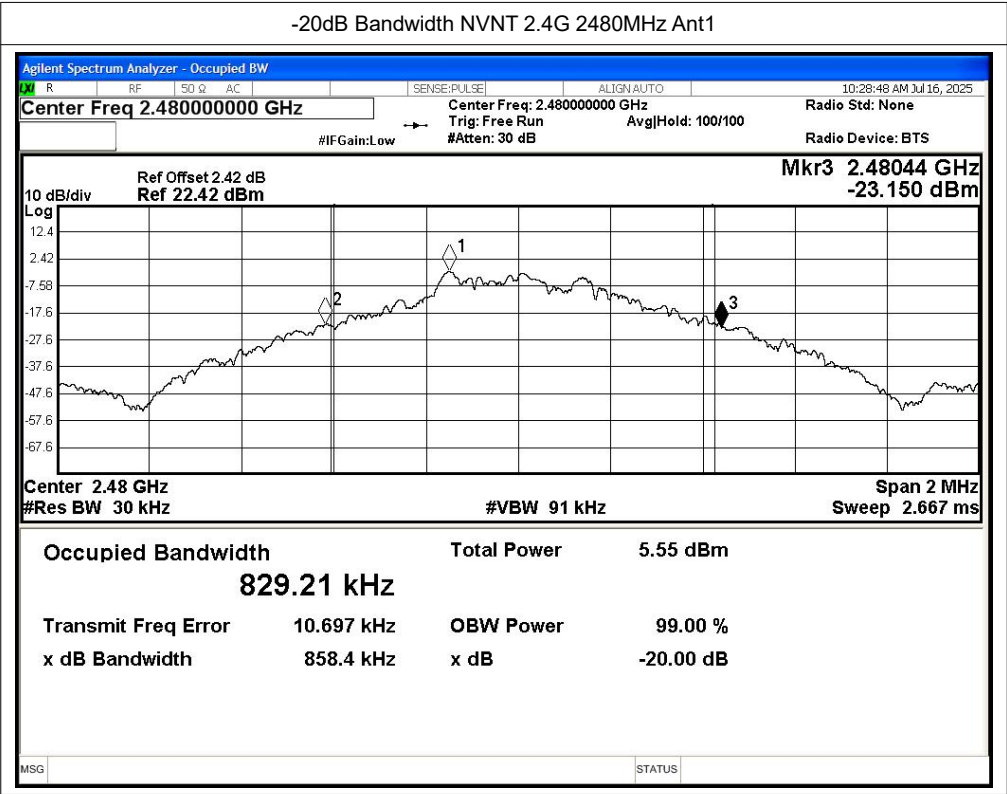
Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Yongwang Li
Supervised by:	Yan Chen

A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	Ant1	0.874	N/A	Pass
NVNT	2.4G	2440	Ant1	0.867	N/A	Pass
NVNT	2.4G	2480	Ant1	0.858	N/A	Pass



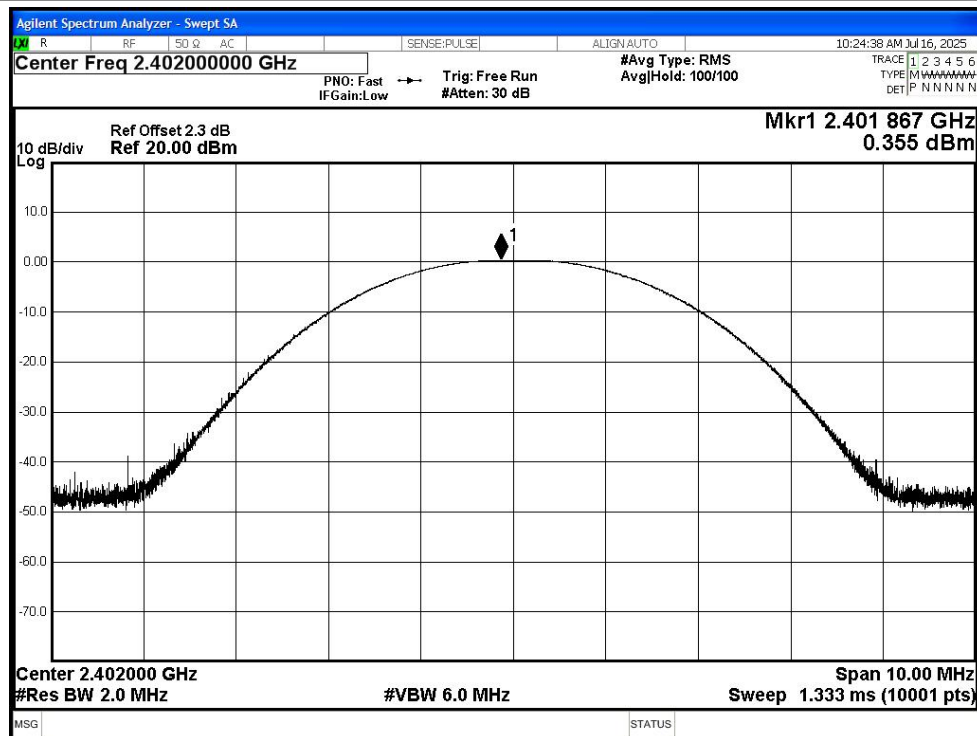


A.2 Maximum Peak Conducted Output Power

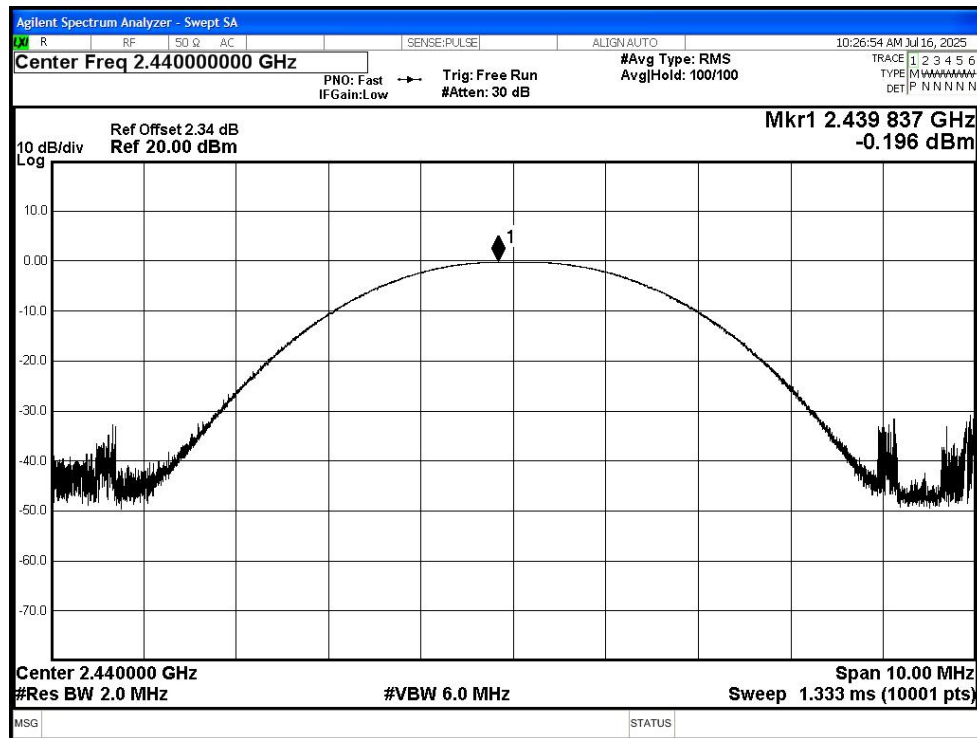
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	Ant1	0.36	21	Pass
NVNT	2.4G	2440	Ant1	-0.20	21	Pass
NVNT	2.4G	2480	Ant1	-0.57	21	Pass

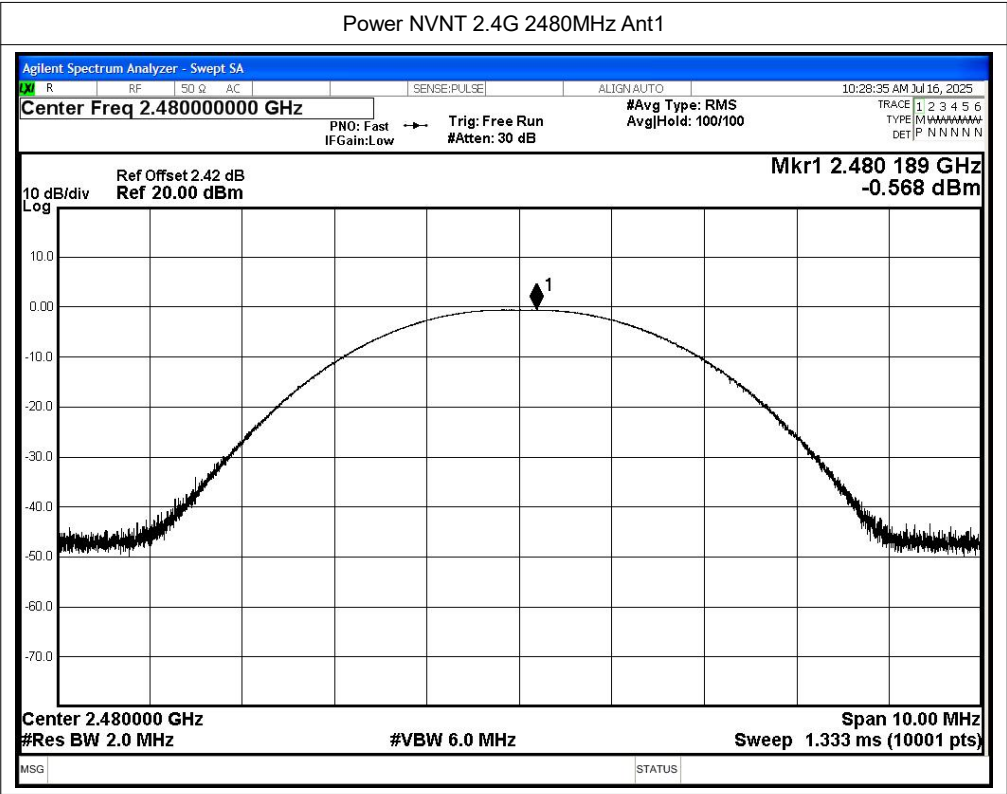
Test Graphs

Power NVNT 2.4G 2402MHz Ant1



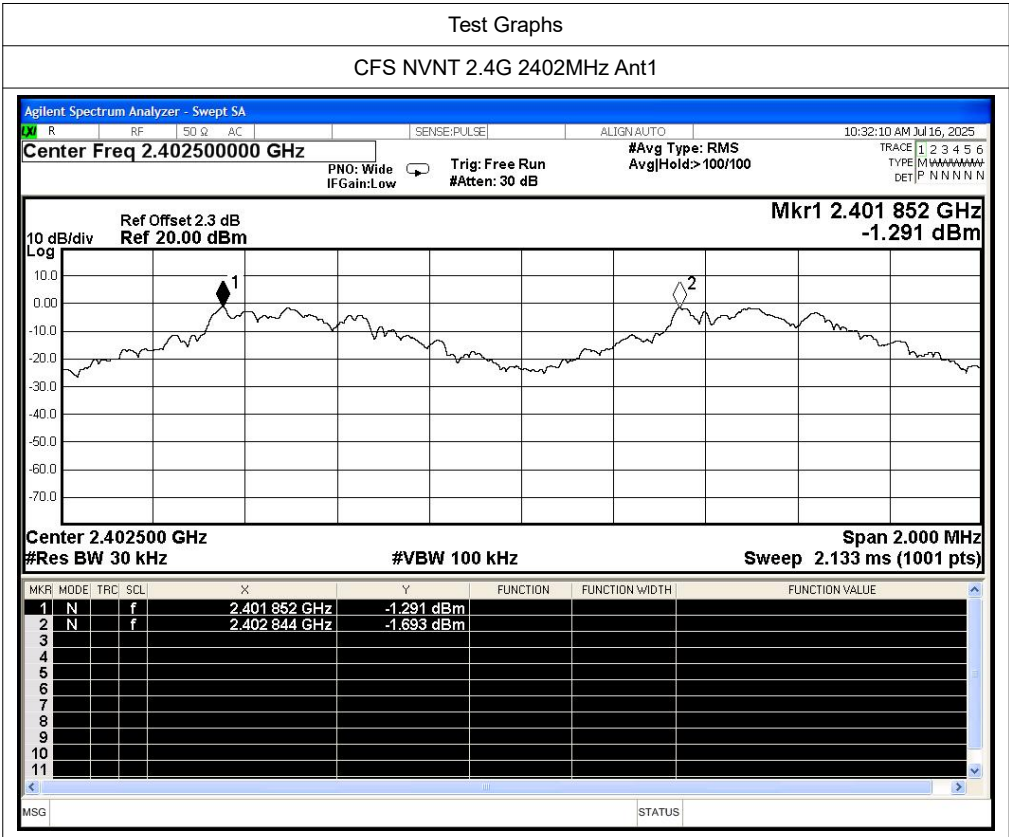
Power NVNT 2.4G 2440MHz Ant1





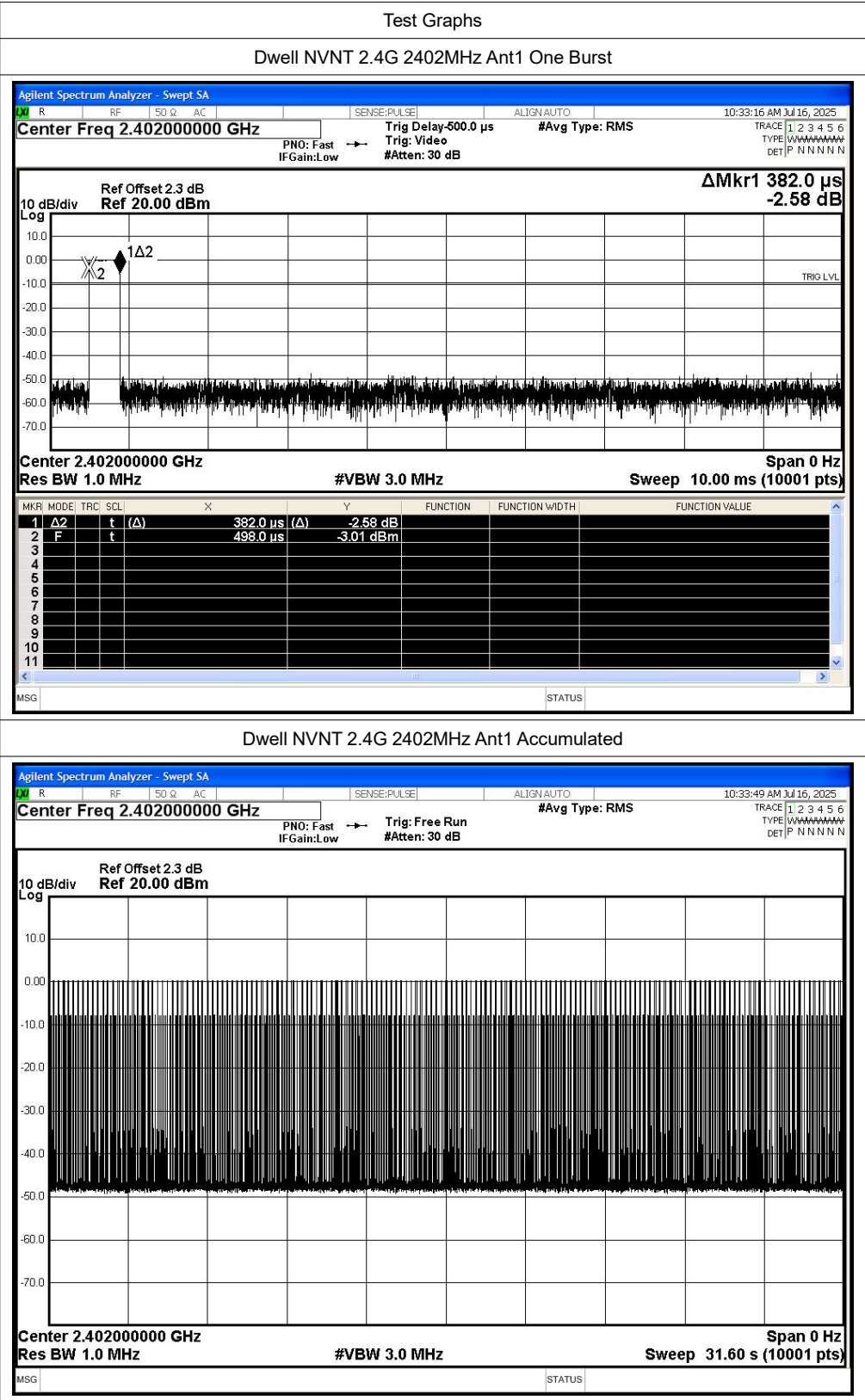
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	Ant1	2401.852	2402.844	0.992	0.583	Pass



A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2402	Ant1	0.382	122.24	320	31600	400	Pass



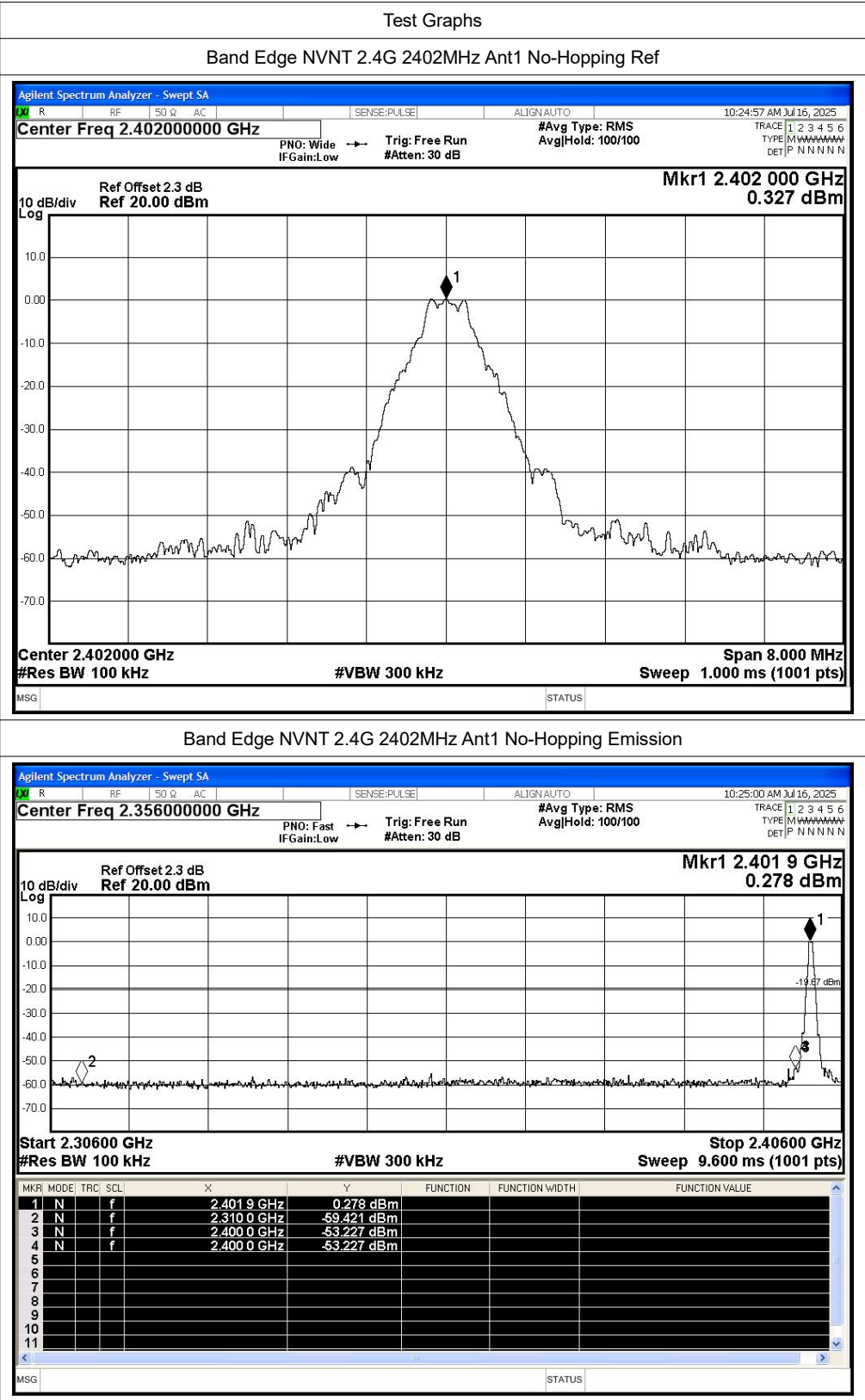
A.5 Number of Hopping Channel

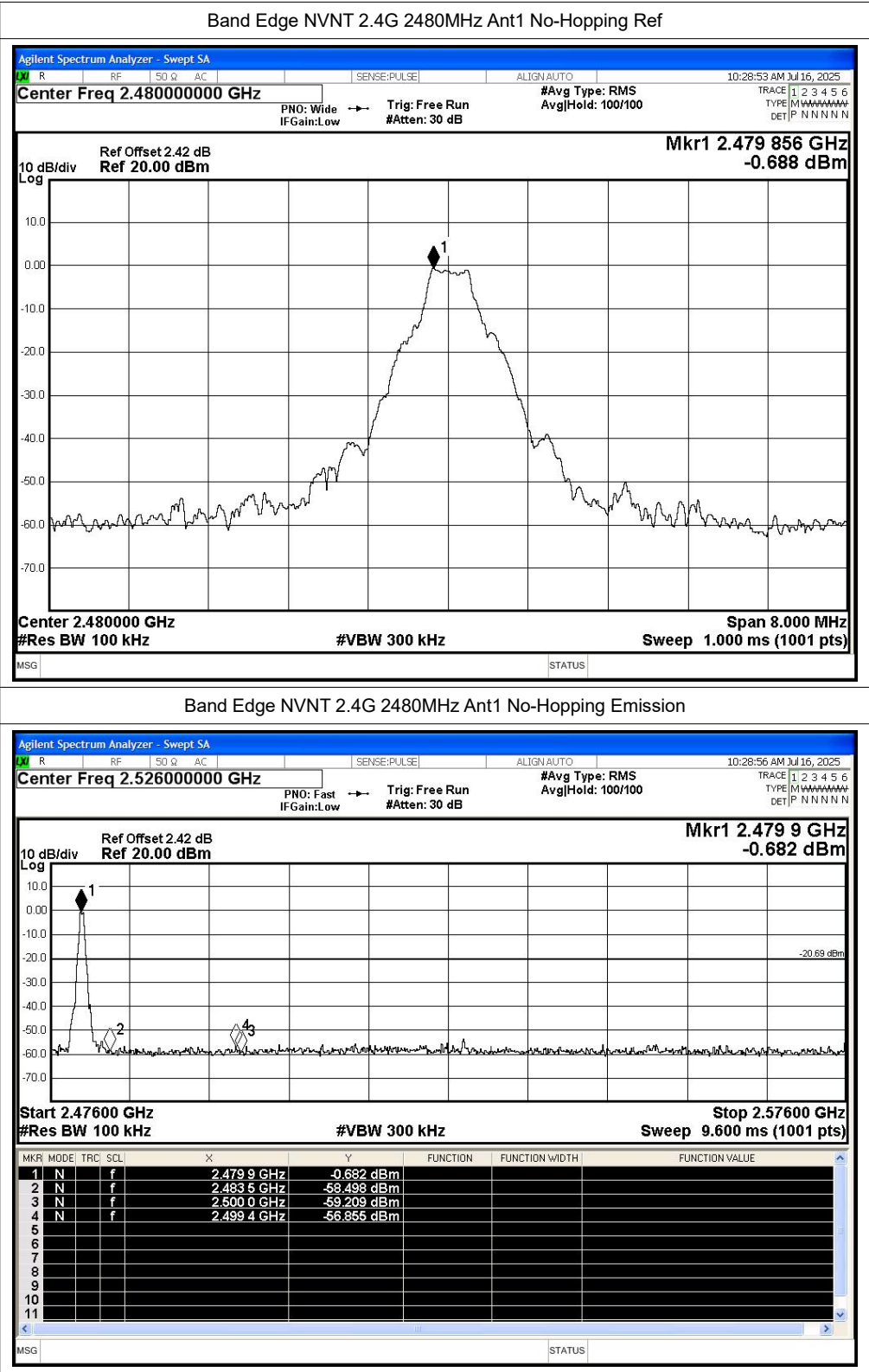
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	2.4G	Ant1	79	15	Pass



A.6 Band Edge

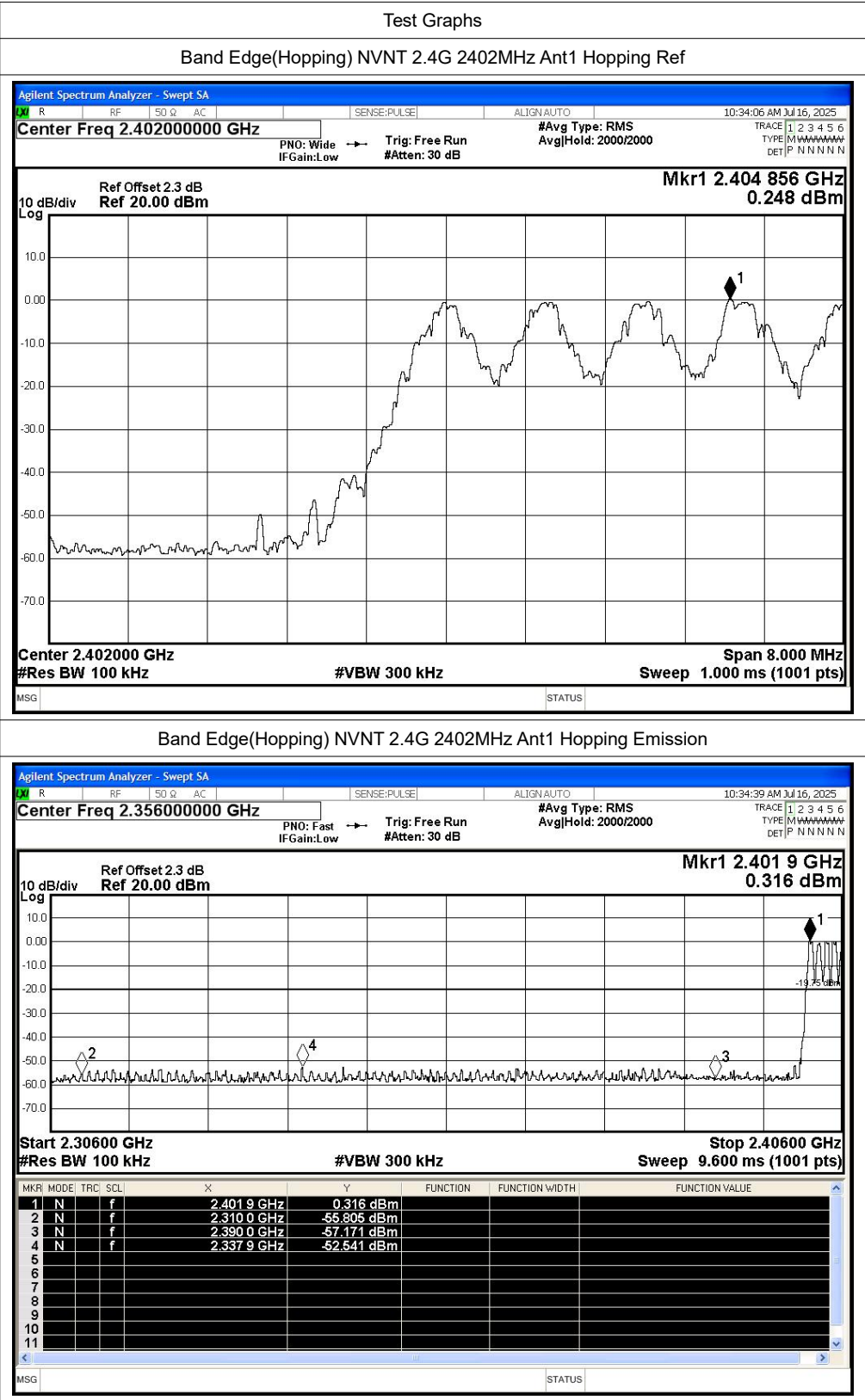
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	No-Hopping	-53.55	-20	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	-56.17	-20	Pass

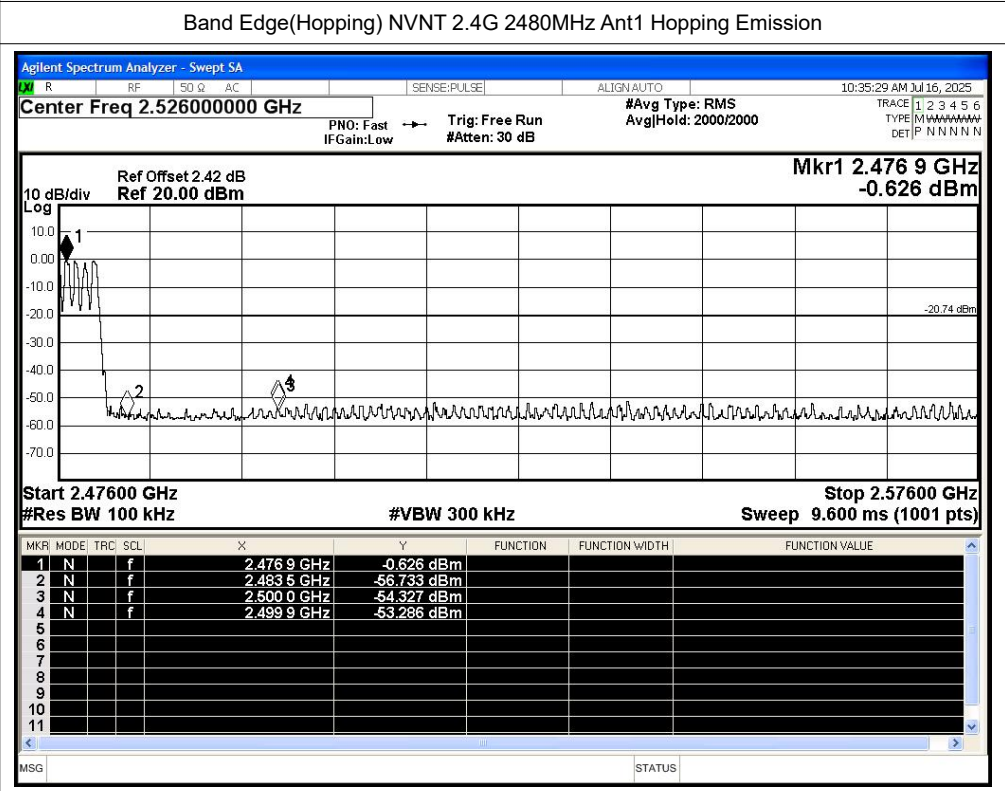
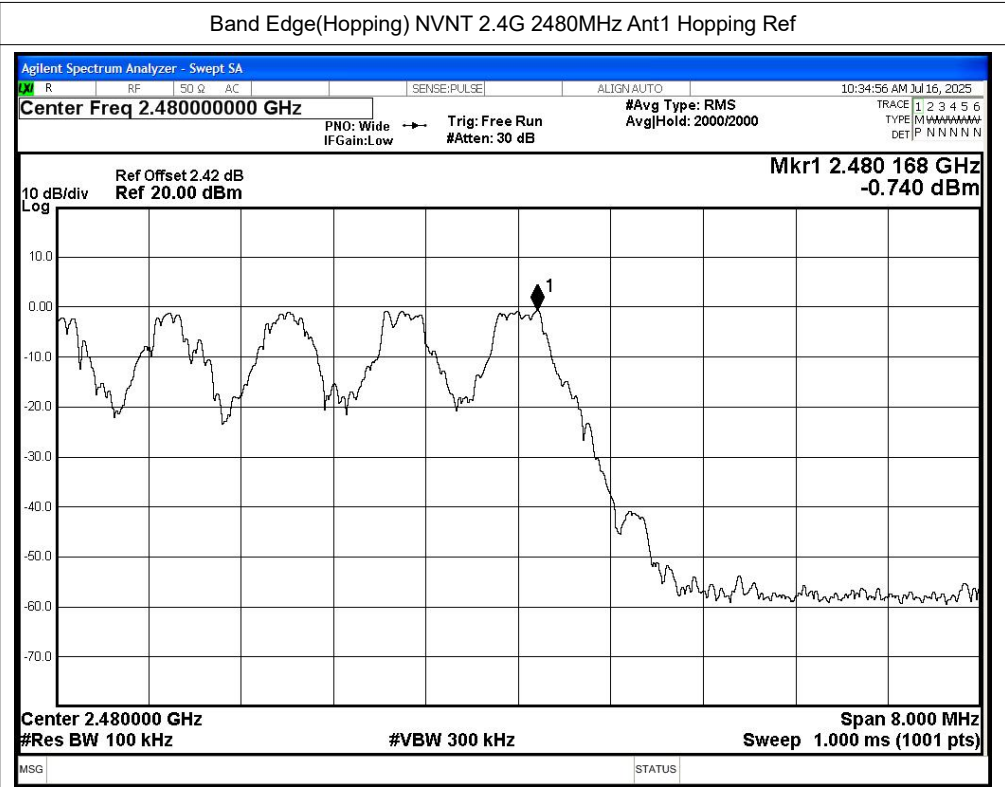




(Hopping)

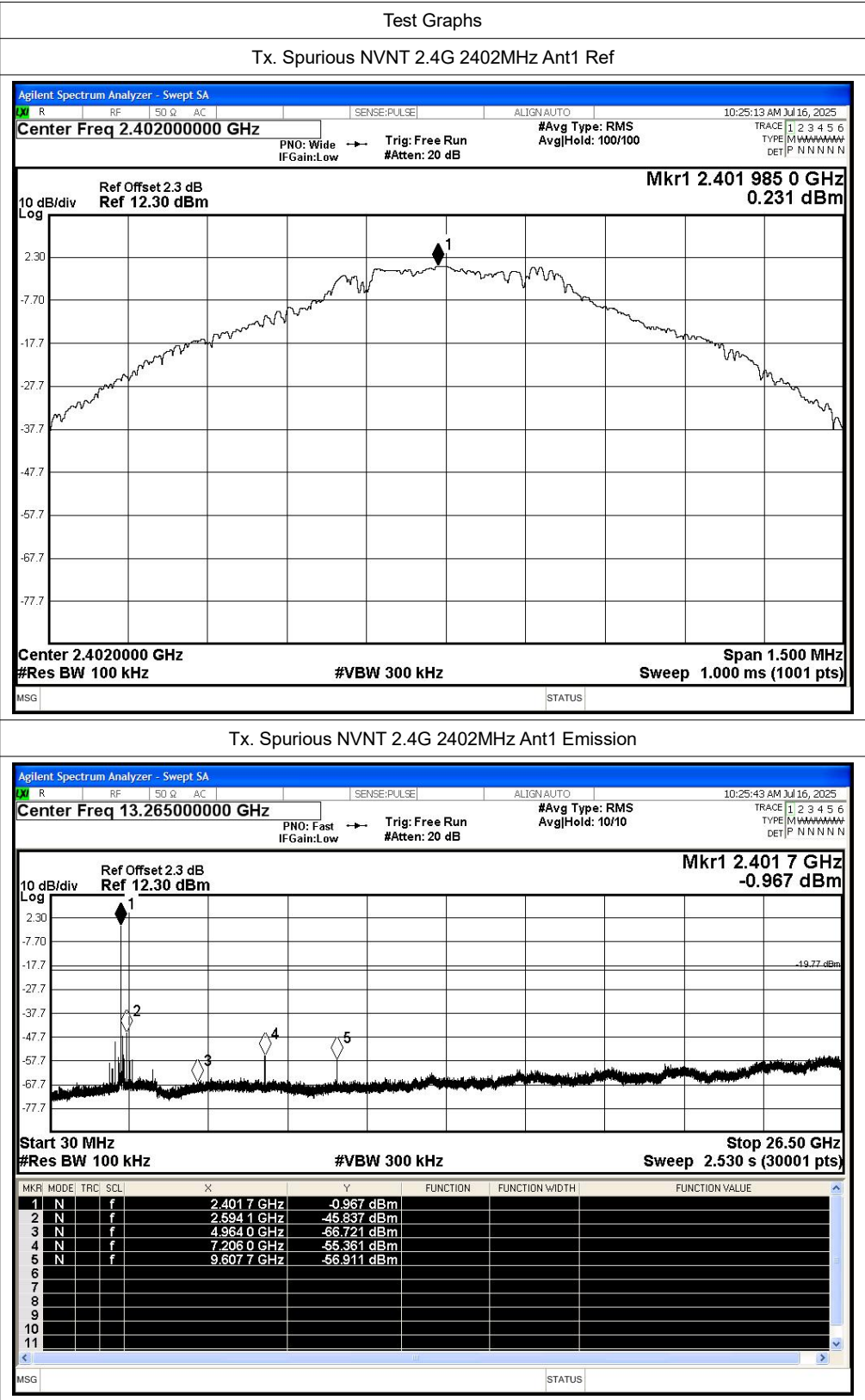
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	Hopping	-52.79	-20	Pass
NVNT	2.4G	2480	Ant1	Hopping	-52.55	-20	Pass

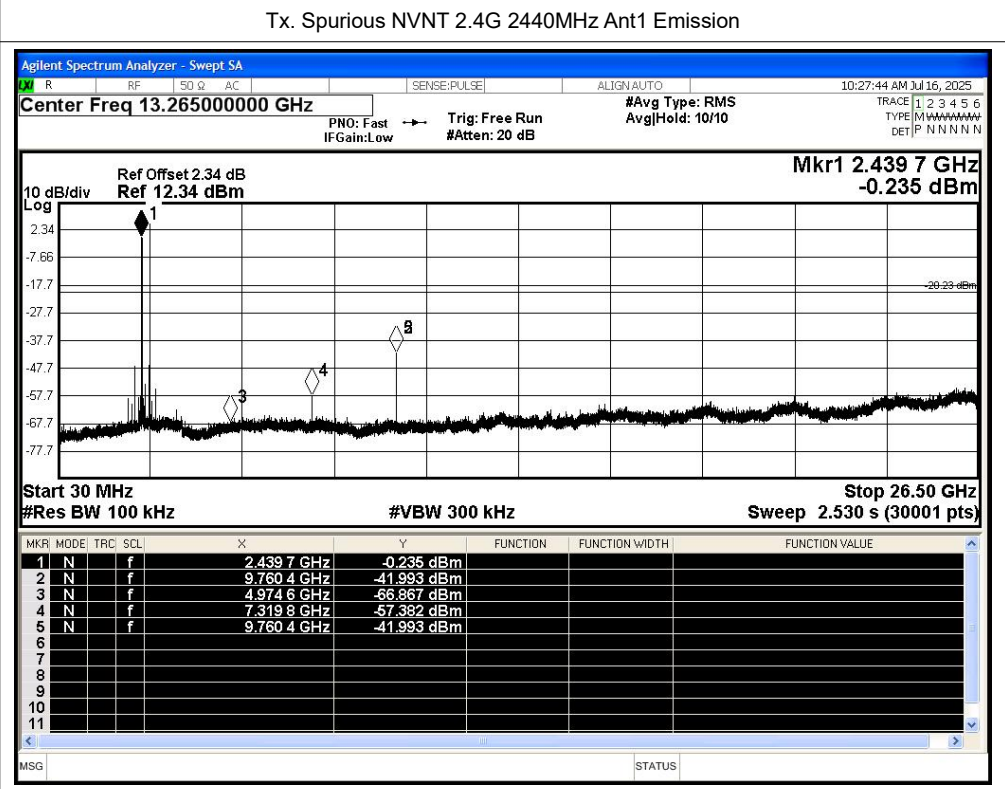
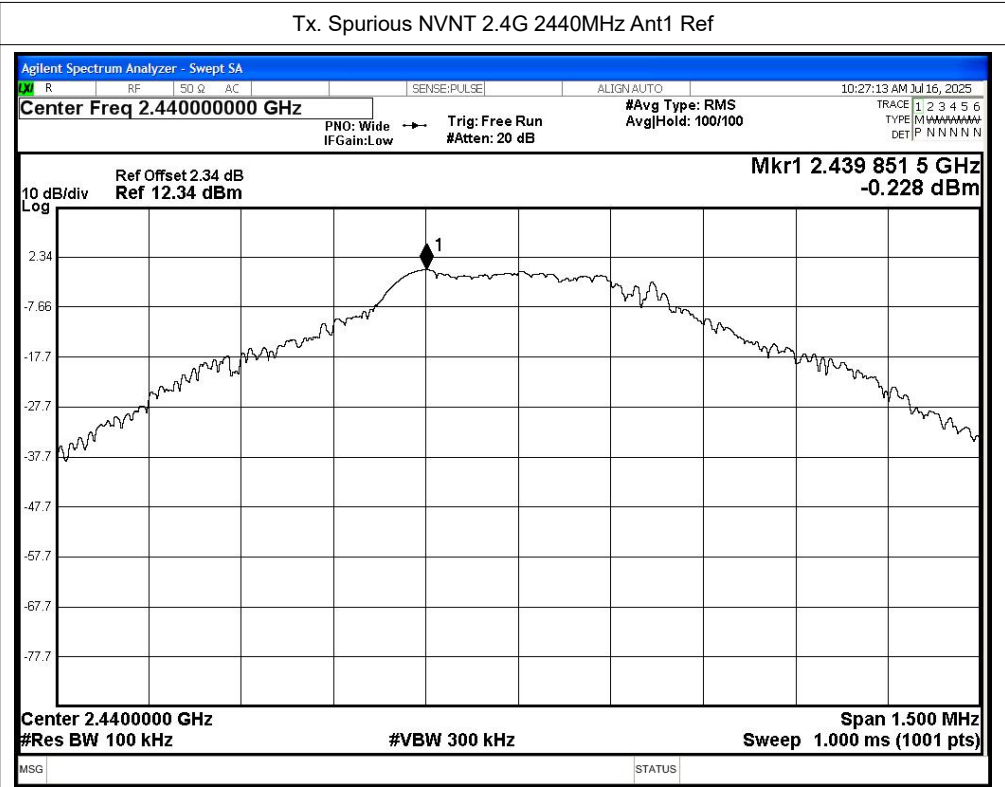


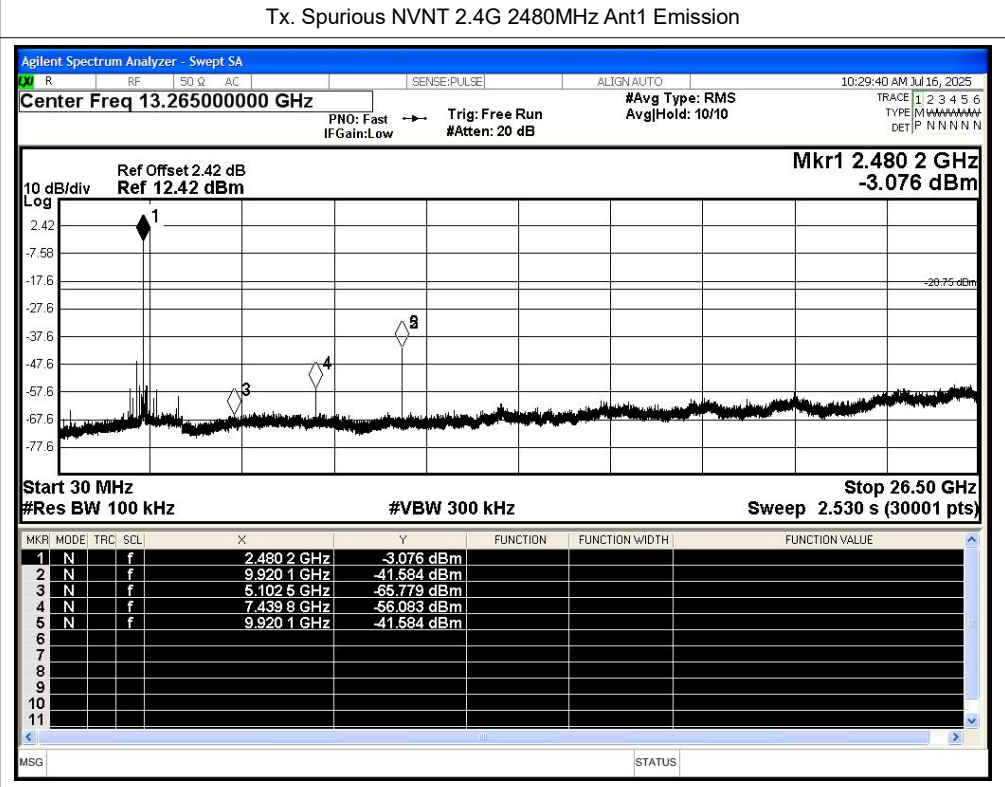
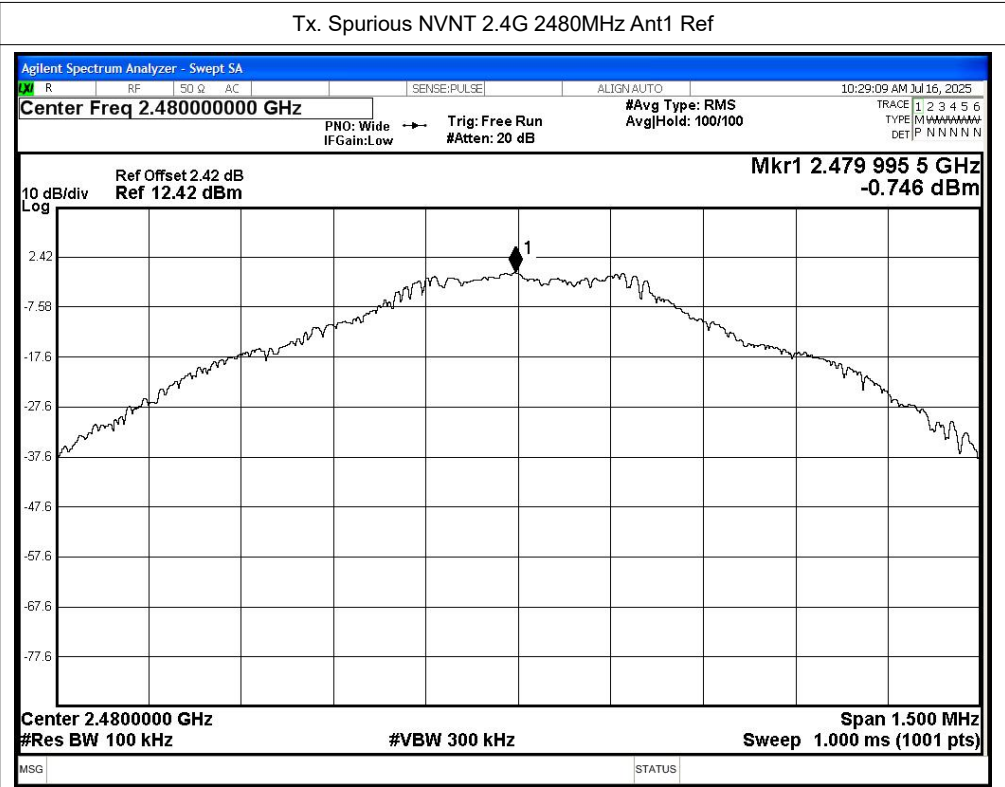


A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-46.07	-20	Pass
NVNT	2.4G	2440	Ant1	-41.77	-20	Pass
NVNT	2.4G	2480	Ant1	-40.84	-20	Pass

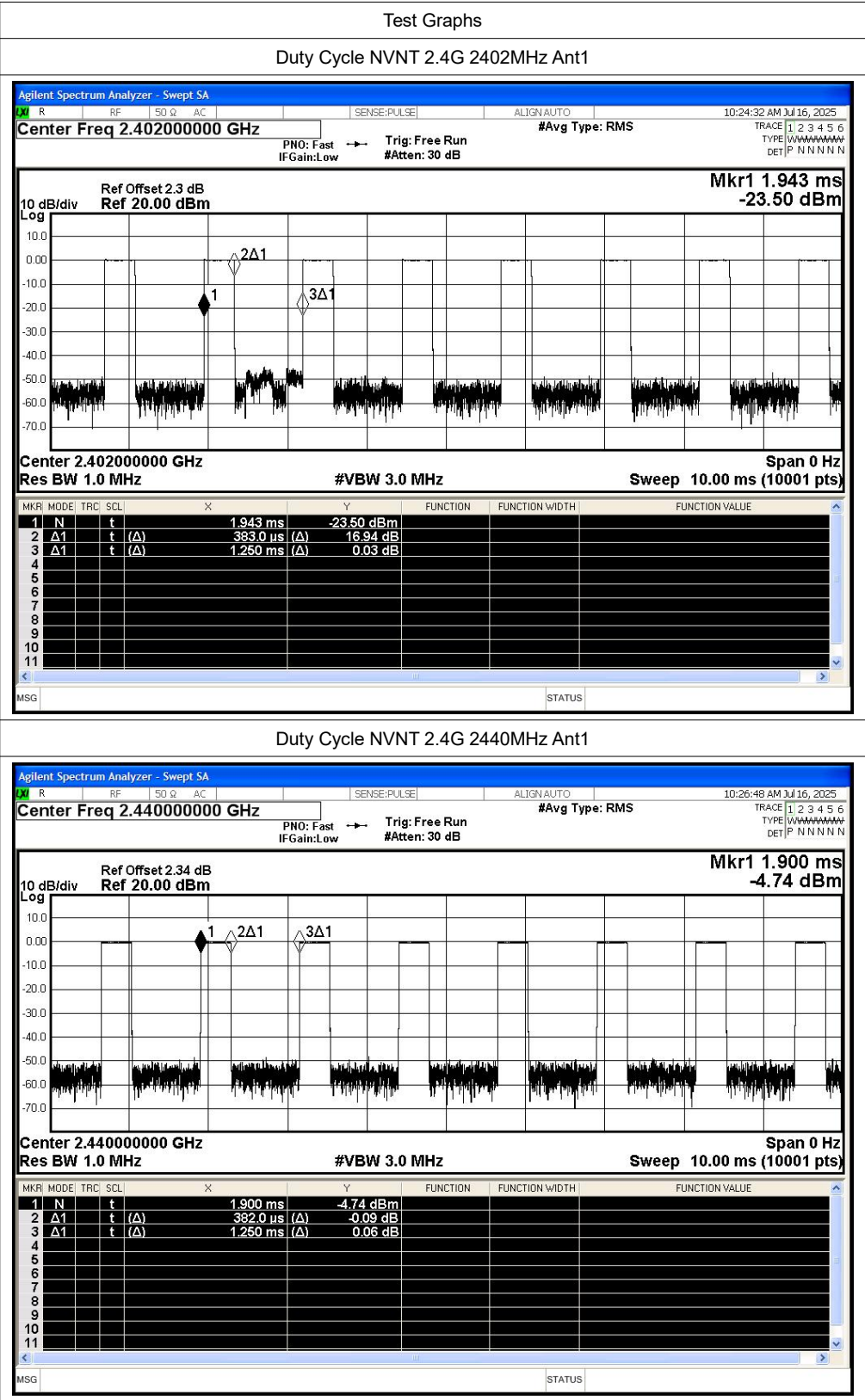


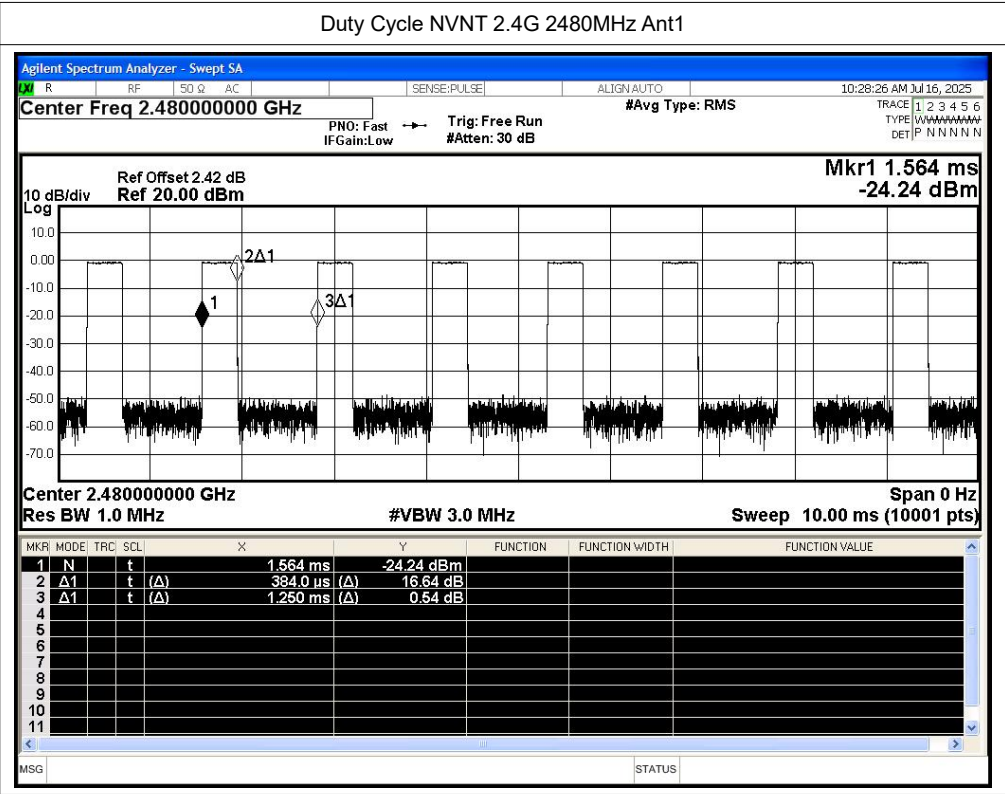




A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	Ant1	30.64	5.14	2.61
NVNT	2.4G	2440	Ant1	30.56	5.15	2.62
NVNT	2.4G	2480	Ant1	30.72	5.13	2.6





A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2402	Ant1	No-Hopping	2310	-51.25	2	-	46.01	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2310	-58.58	2	5.14	43.82	Average	54	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2376.912	-45.65	2	-	51.61	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2354.064	-56.56	2	5.14	45.84	Average	54	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2390	-48.57	2	-	48.69	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2390	-57.79	2	5.14	44.61	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2483.5	-48.58	2	-	48.68	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2483.5	-57.56	2	5.13	44.83	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2484.52	-46.19	2	-	51.07	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2498.128	-56.34	2	5.13	46.05	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2500	-50.11	2	-	47.15	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2500	-57	2	5.13	45.39	Average	54	Pass

