

Appendix A: Test Results

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Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Gain (dBi)	eirp (dBm)	eirp (W)	Limit Conducted (dBm)	Limit EIRP (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.47	0	4.47	0.0028	3.16	7.63	0.00579	30	36	Pass
NVNT	BLE 1M	2440	Ant1	4.68	0	4.68	0.00294	3.16	7.84	0.00608	30	36	Pass
NVNT	BLE 1M	2480	Ant1	4.28	0	4.28	0.00268	3.16	7.44	0.00555	30	36	Pass
NVNT	BLE 2M	2404	Ant1	4.18	0	4.18	0.00262	3.16	7.34	0.00542	30	36	Pass
NVNT	BLE 2M	2440	Ant1	4.37	0	4.37	0.00274	3.16	7.53	0.00566	30	36	Pass
NVNT	BLE 2M	2478	Ant1	3.99	0	3.99	0.00251	3.16	7.15	0.00519	30	36	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.7	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6943	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6883	0.5	Pass
NVNT	BLE 2M	2404	Ant1	1.145	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.144	0.5	Pass
NVNT	BLE 2M	2478	Ant1	1.181	0.5	Pass



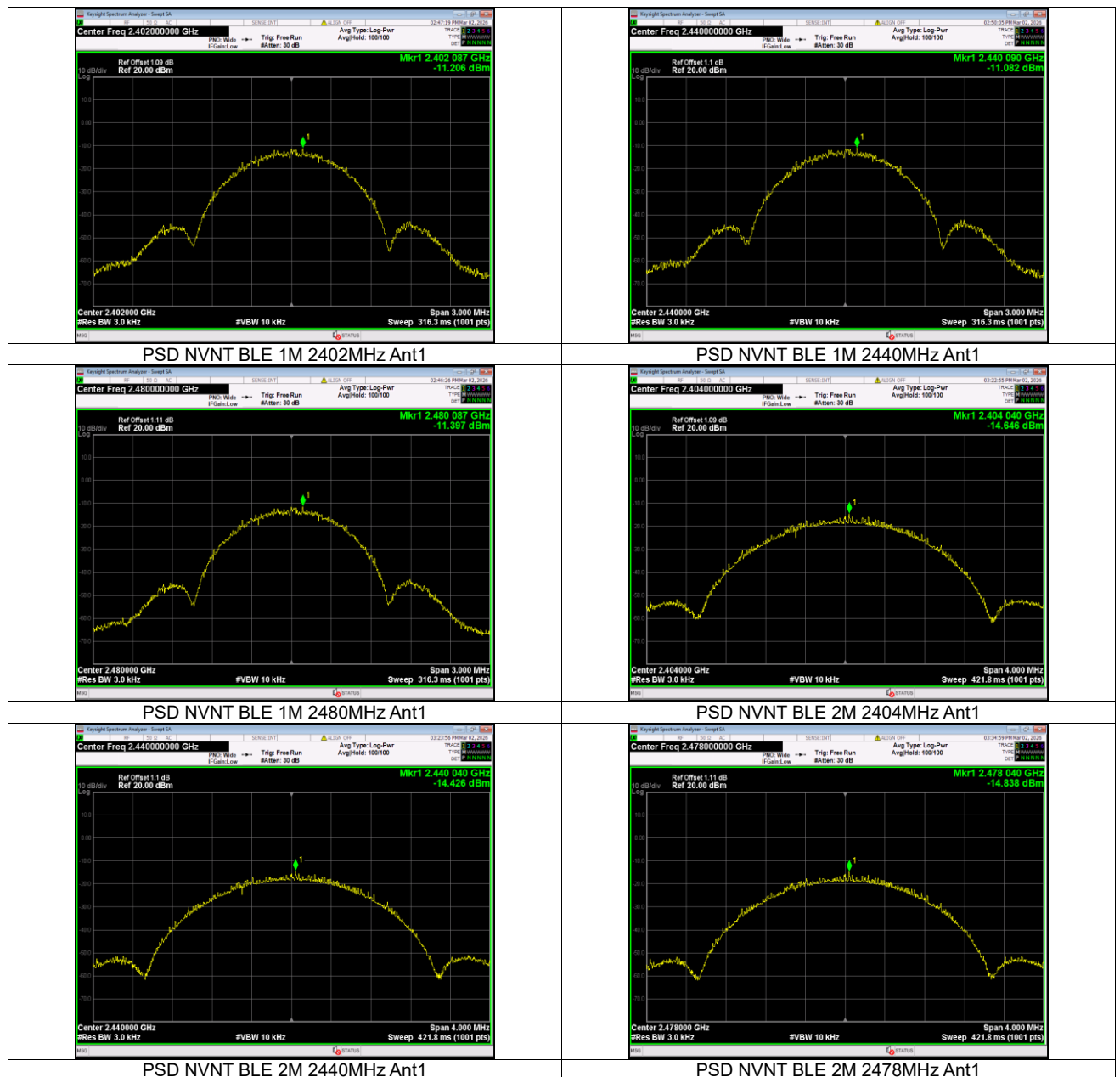
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0289
NVNT	BLE 1M	2440	Ant1	1.0312
NVNT	BLE 1M	2480	Ant1	1.0304
NVNT	BLE 2M	2404	Ant1	1.9645
NVNT	BLE 2M	2440	Ant1	1.97
NVNT	BLE 2M	2478	Ant1	1.9672



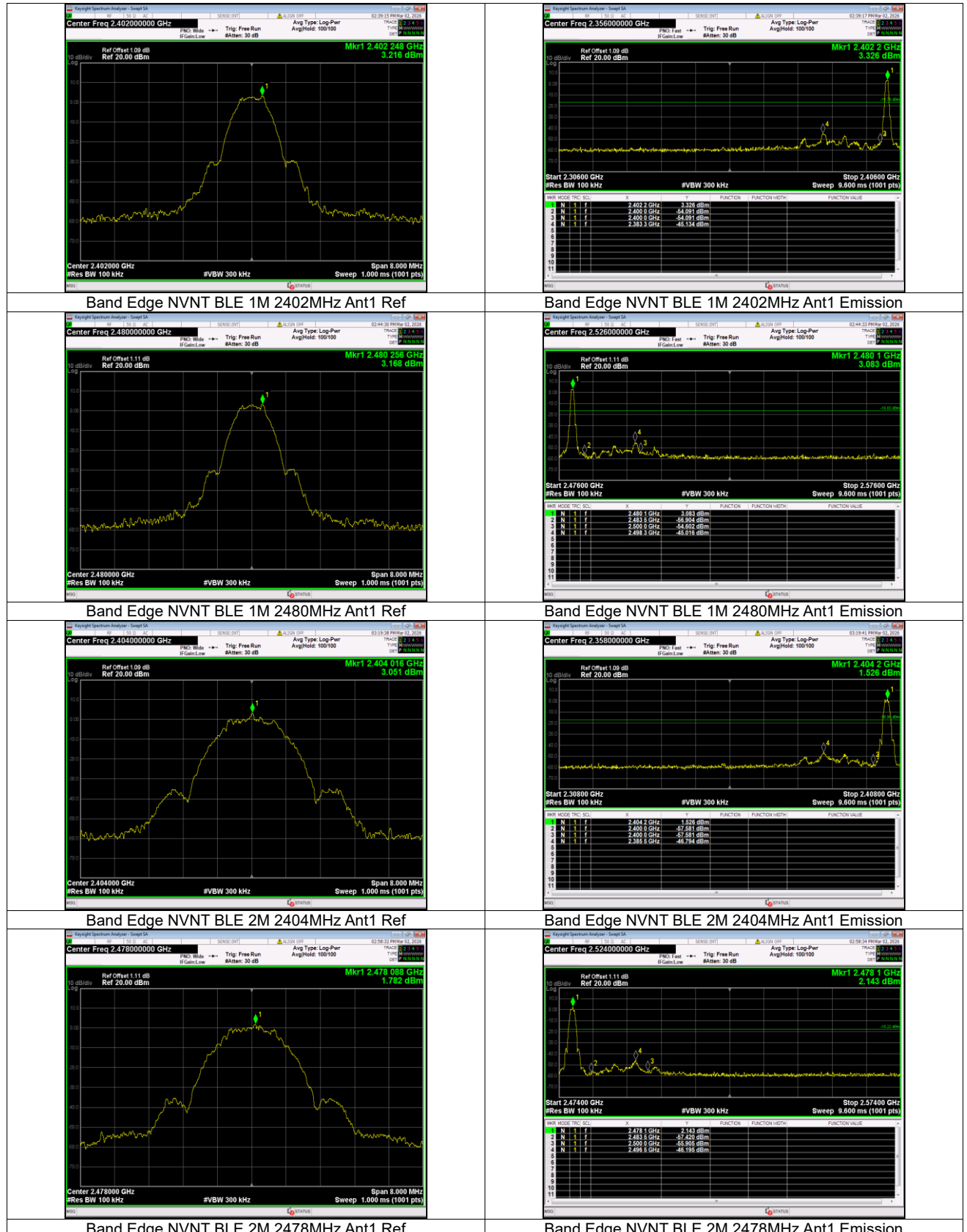
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-11.21	0	-11.21	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.08	0	-11.08	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.4	0	-11.4	8	Pass
NVNT	BLE 2M	2404	Ant1	-14.65	0	-14.65	8	Pass
NVNT	BLE 2M	2440	Ant1	-14.43	0	-14.43	8	Pass
NVNT	BLE 2M	2478	Ant1	-14.84	0	-14.84	8	Pass



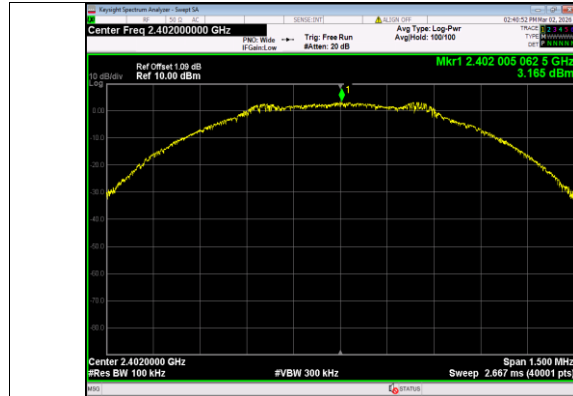
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.35	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.18	-20	Pass
NVNT	BLE 2M	2404	Ant1	-49.84	-20	Pass
NVNT	BLE 2M	2478	Ant1	-47.97	-20	Pass

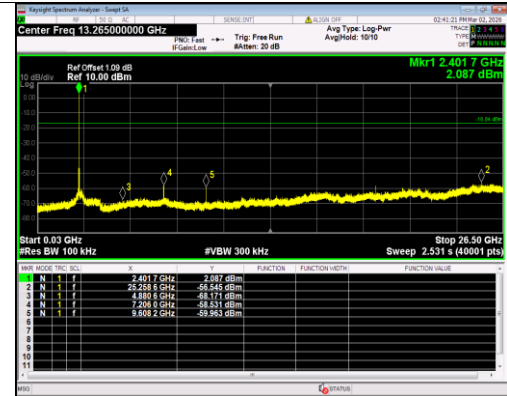


Conducted RF Spurious Emission

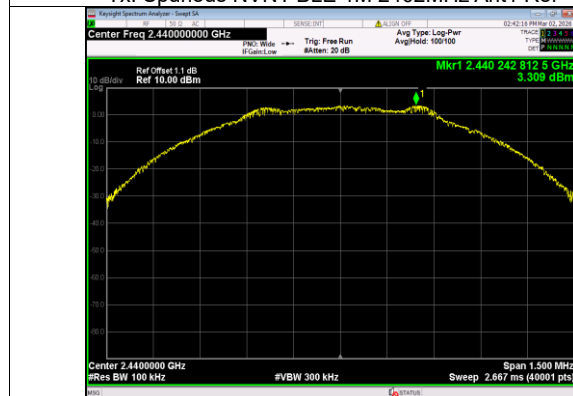
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-59.71	-20	Pass
NVNT	BLE 1M	2440	Ant1	-59.49	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.32	-20	Pass
NVNT	BLE 2M	2404	Ant1	-59.17	-20	Pass
NVNT	BLE 2M	2440	Ant1	-59.51	-20	Pass
NVNT	BLE 2M	2478	Ant1	-54.96	-20	Pass



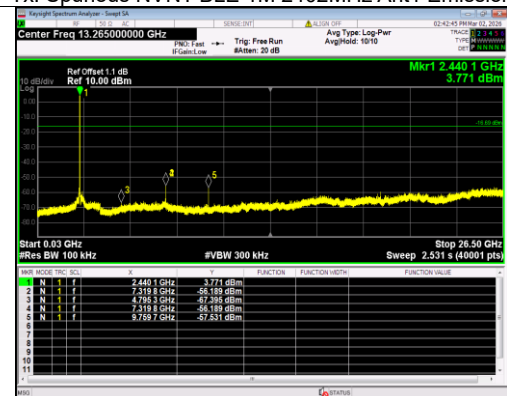
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



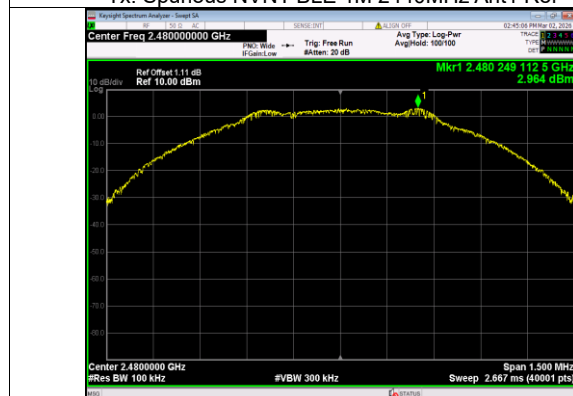
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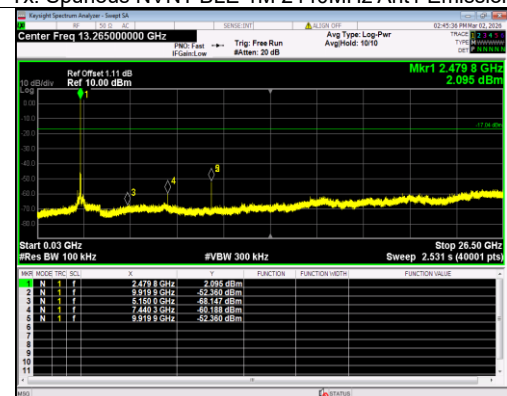
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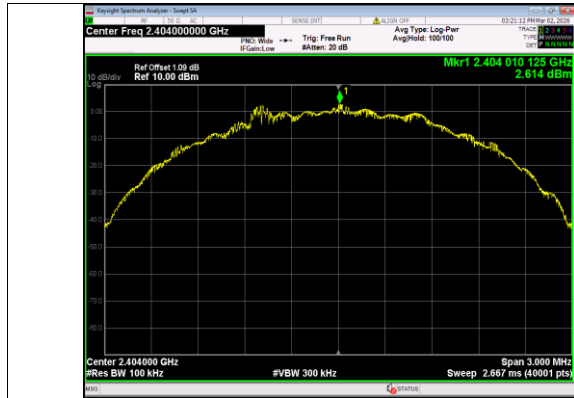
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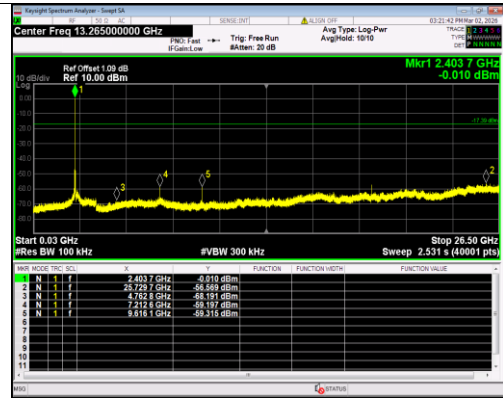
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



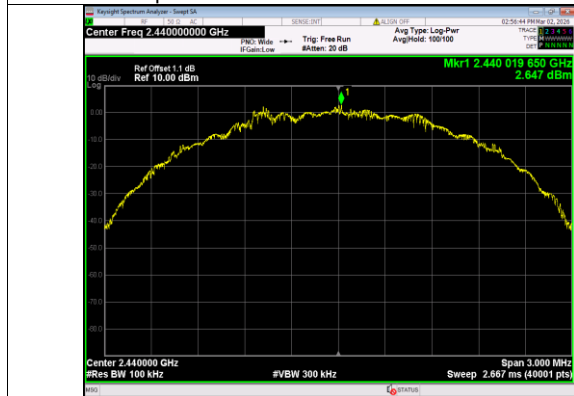
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



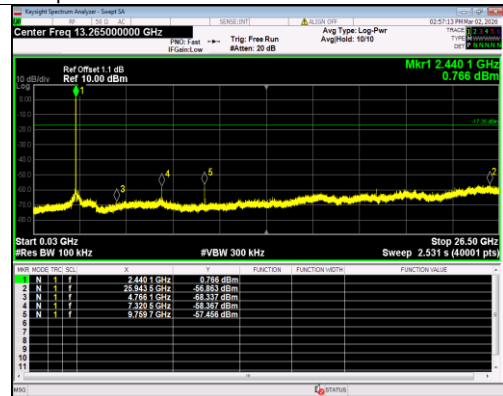
Tx. Spurious NVNT BLE 2M 2404MHz Ant1 Ref



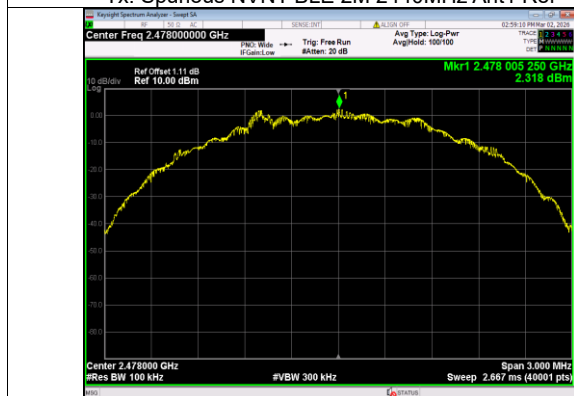
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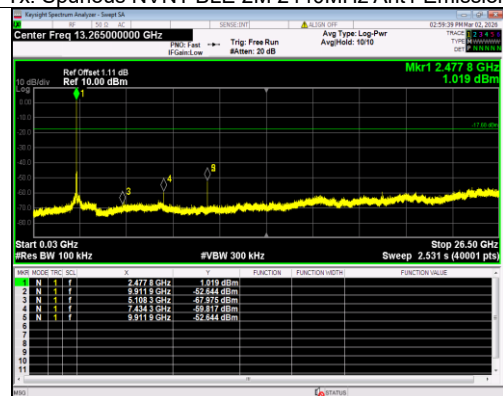
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Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



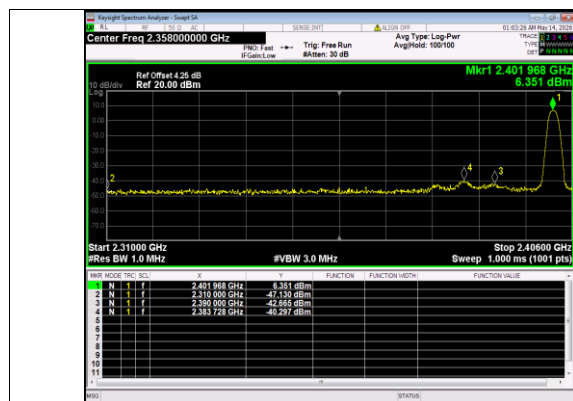
Tx. Spurious NVNT BLE 2M 2478MHz Ant1 Ref



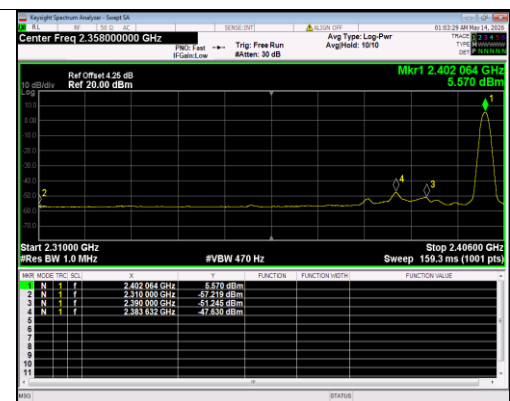
Tx. Spurious NVNT BLE 2M 2478MHz Ant1 Emission

Restrict Band

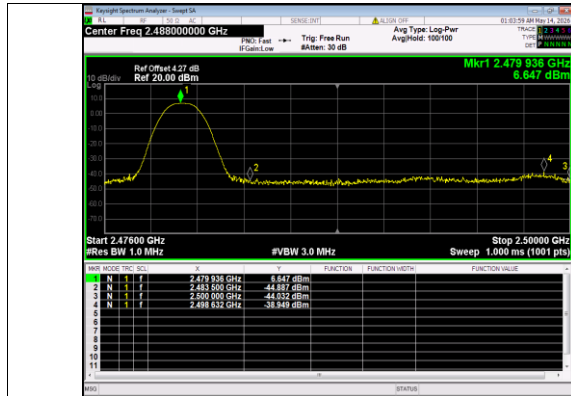
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	SRD 1M	2402	Ant1	2310	-47.12	3.16	48.14	Peak	74	Pass
NVNT	SRD 1M	2402	Ant1	2310	-57.21	3.16	38.05	Average	54	Pass
NVNT	SRD 1M	2402	Ant1	2383.728	-40.29	3.16	54.97	Peak	74	Pass
NVNT	SRD 1M	2402	Ant1	2383.632	-47.63	3.16	47.63	Average	54	Pass
NVNT	SRD 1M	2402	Ant1	2390	-43.18	3.16	52.08	Peak	74	Pass
NVNT	SRD 1M	2402	Ant1	2390	-51.35	3.16	43.91	Average	54	Pass
NVNT	SRD 1M	2480	Ant1	2483.5	-44.88	3.16	50.38	Peak	74	Pass
NVNT	SRD 1M	2480	Ant1	2483.5	-54.8	3.16	40.46	Average	54	Pass
NVNT	SRD 1M	2480	Ant1	2498.632	-38.94	3.16	56.32	Peak	74	Pass
NVNT	SRD 1M	2480	Ant1	2498.464	-49.02	3.16	46.24	Average	54	Pass
NVNT	SRD 1M	2480	Ant1	2500	-44.03	3.16	51.23	Peak	74	Pass
NVNT	SRD 1M	2480	Ant1	2500	-54.43	3.16	40.83	Average	54	Pass
NVNT	SRD 2M	2404	Ant1	2310	-48.24	3.16	47.02	Peak	74	Pass
NVNT	SRD 2M	2404	Ant1	2310	-57.32	3.16	37.94	Average	54	Pass
NVNT	SRD 2M	2404	Ant1	2386.146	-39.95	3.16	55.31	Peak	74	Pass
NVNT	SRD 2M	2404	Ant1	2385.656	-48.31	3.16	46.95	Average	54	Pass
NVNT	SRD 2M	2404	Ant1	2390	-43.55	3.16	51.71	Peak	74	Pass
NVNT	SRD 2M	2404	Ant1	2390	-52.23	3.16	43.03	Average	54	Pass
NVNT	SRD 2M	2478	Ant1	2483.5	-46.23	3.16	49.03	Peak	74	Pass
NVNT	SRD 2M	2478	Ant1	2483.5	-55.62	3.16	39.64	Average	54	Pass
NVNT	SRD 2M	2478	Ant1	2497.01	-40.72	3.16	54.54	Peak	74	Pass
NVNT	SRD 2M	2478	Ant1	2496.438	-49.54	3.16	45.72	Average	54	Pass
NVNT	SRD 2M	2478	Ant1	2500	-44.45	3.16	50.81	Peak	74	Pass
NVNT	SRD 2M	2478	Ant1	2500	-55.21	3.16	40.05	Average	54	Pass



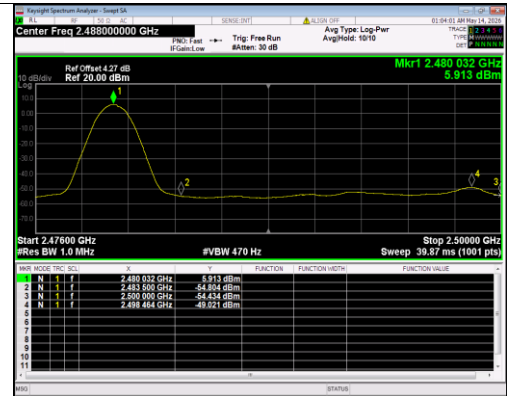
Restrict Band NVNT SRD 1M 2402MHz Ant1 Peak



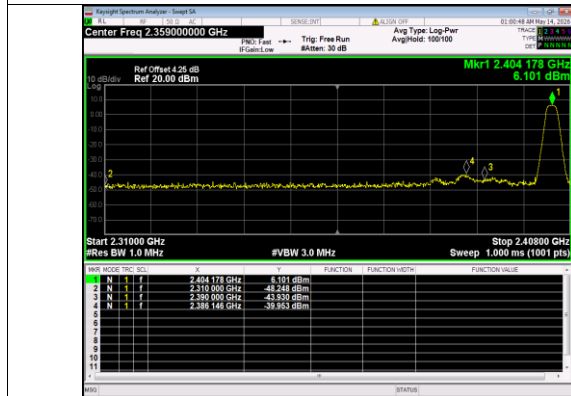
Restrict Band NVNT SRD 1M 2402MHz Ant1 Average



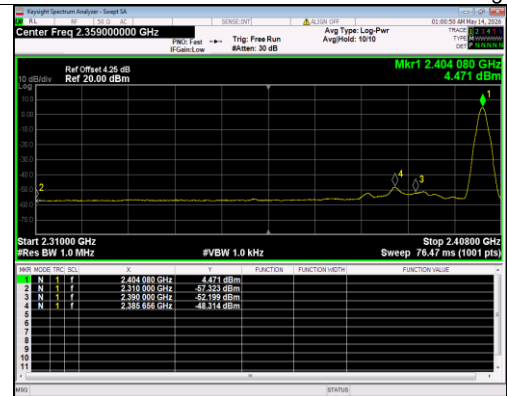
Restrict Band NVNT SRD 1M 2480MHz Ant1 Peak



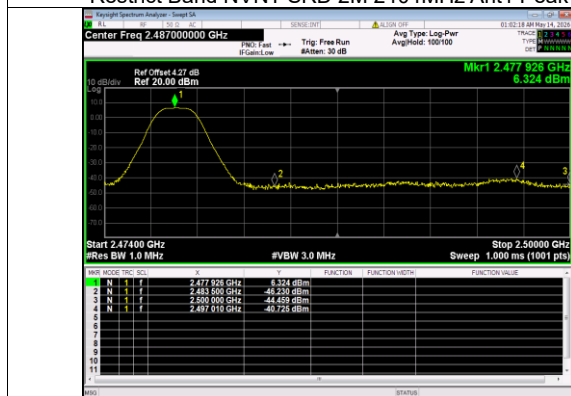
Restrict Band NVNT SRD 1M 2480MHz Ant1 Average



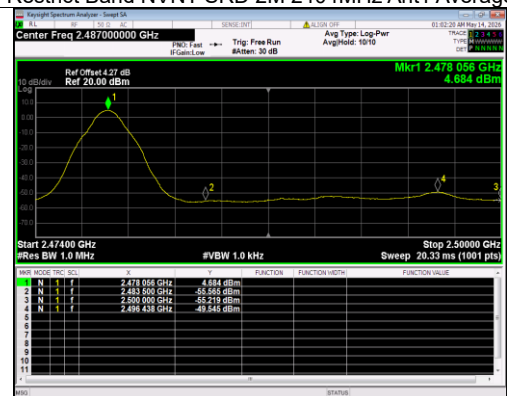
Restrict Band NVNT SRD 2M 2404MHz Ant1 Peak



Restrict Band NVNT SRD 2M 2404MHz Ant1 Average



Restrict Band NVNT SRD 2M 2478MHz Ant1 Peak



Restrict Band NVNT SRD 2M 2478MHz Ant1 Average

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	SRD 1M	2440	Ant1	85.12	0.7	0.47
NVNT	SRD 2M	2440	Ant1	85.93	0.66	0.93

