

FCC_BLE (Part15.247) Test Data
Report No.: NCT25046540E1-1
FCC ID: 2BSOY-A8

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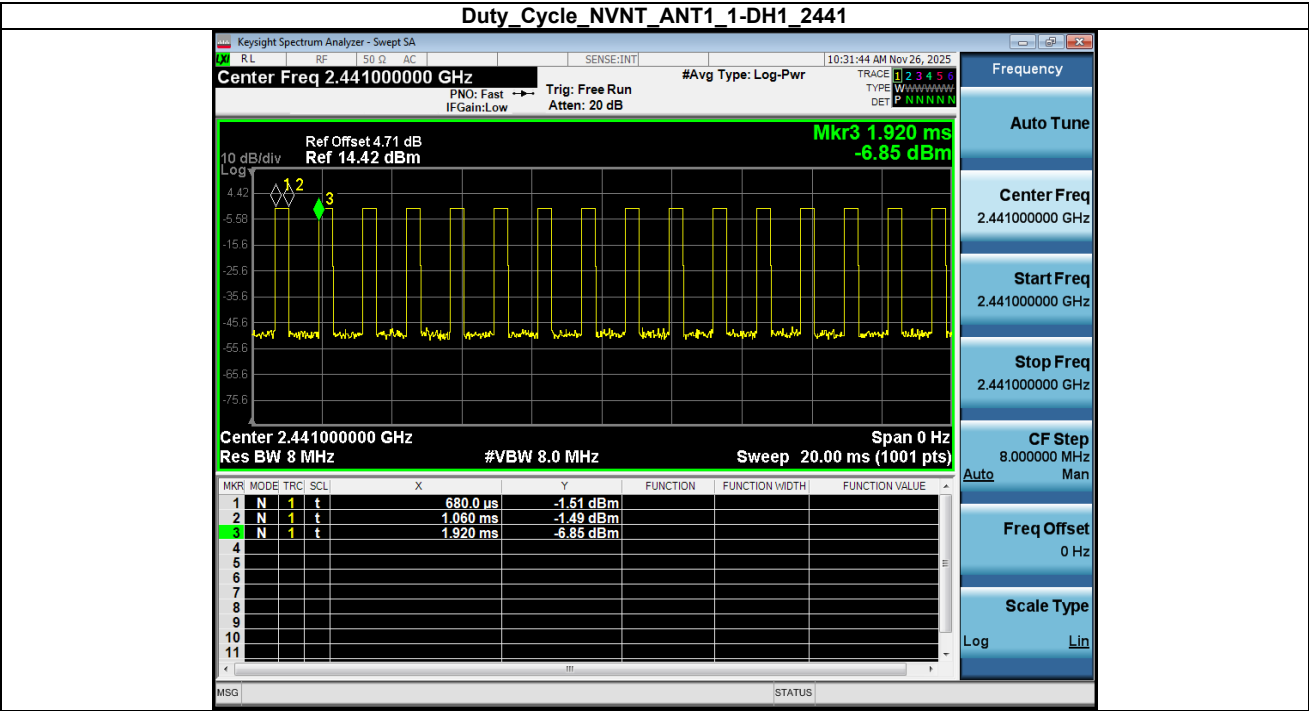
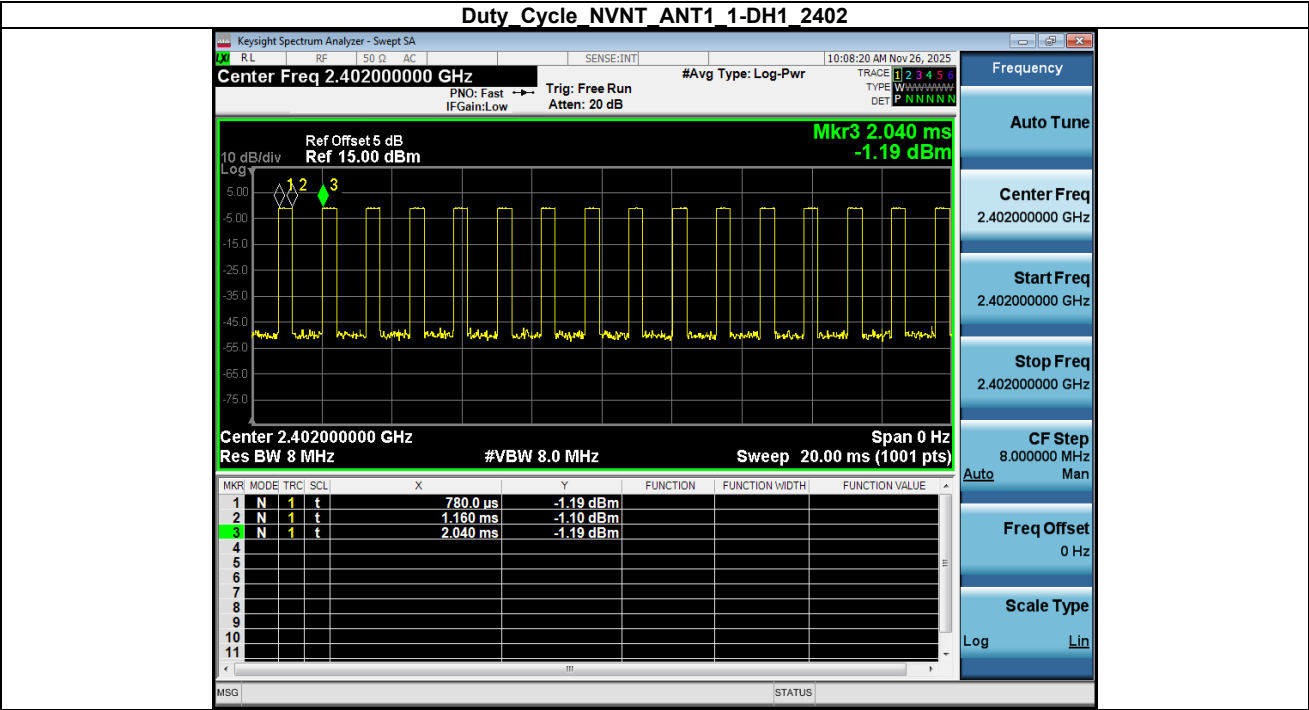
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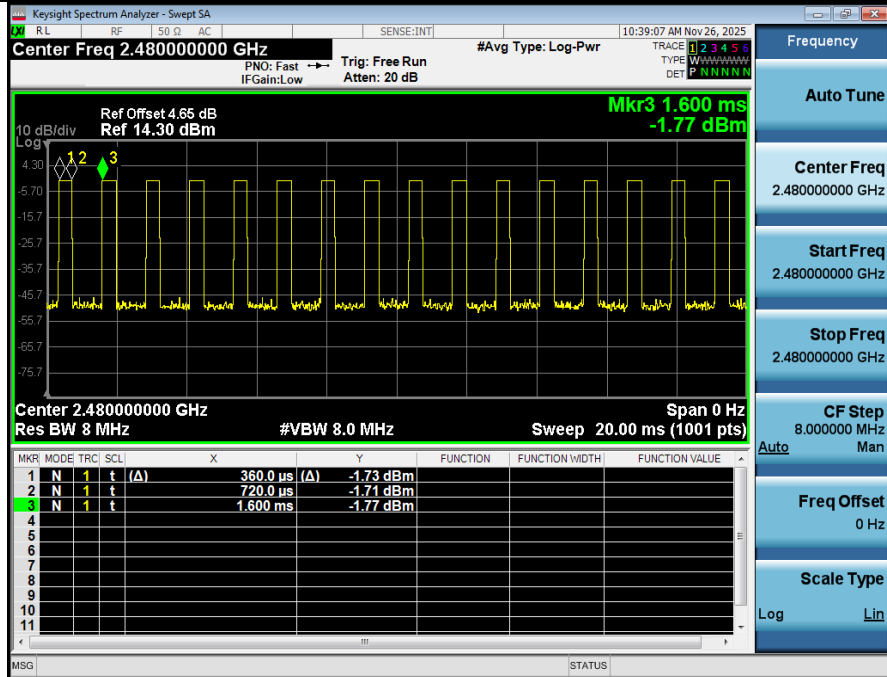
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1. Duty Cycle

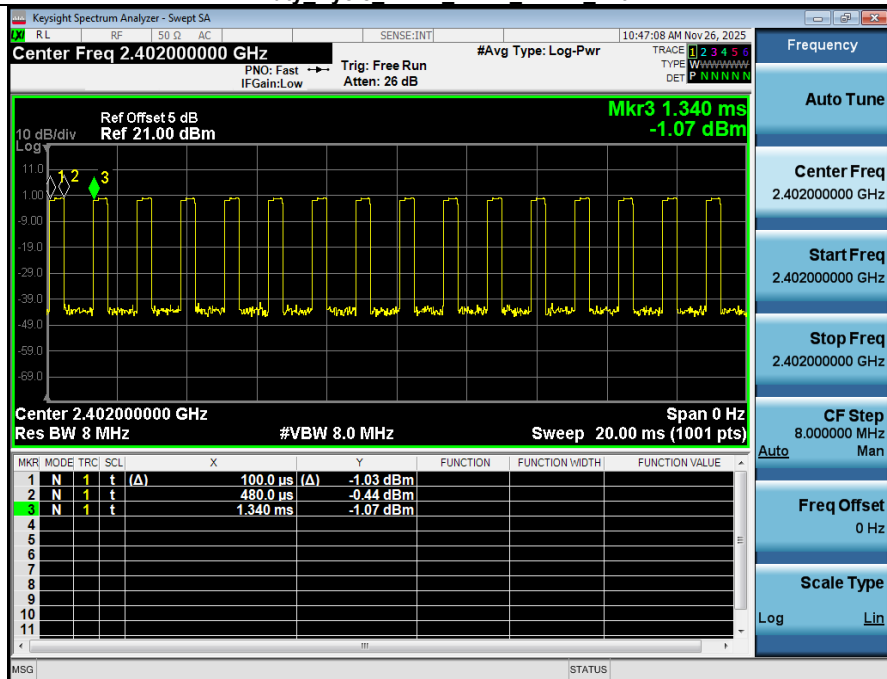
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	30.16	5.21
NVNT	ANT1	1-DH1	2441.00	30.65	5.14
NVNT	ANT1	1-DH1	2480.00	29.03	5.37
NVNT	ANT1	2-DH1	2402.00	30.65	5.14
NVNT	ANT1	2-DH1	2441.00	33.33	4.77
NVNT	ANT1	2-DH1	2480.00	32.26	4.91
NVNT	ANT1	3-DH1	2402.00	30.65	5.14
NVNT	ANT1	3-DH1	2441.00	30.16	5.21
NVNT	ANT1	3-DH1	2480.00	30.65	5.14



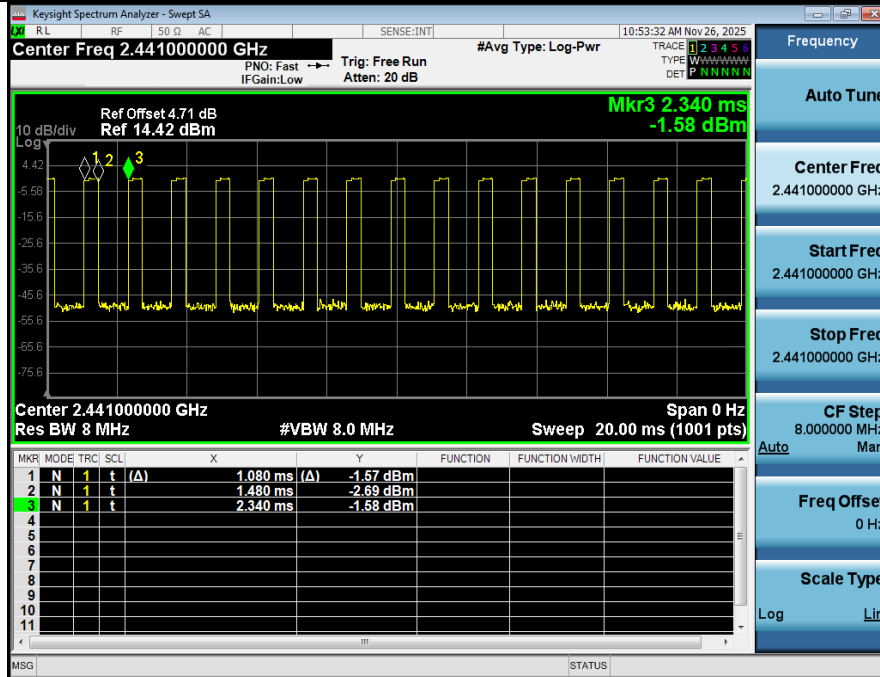
Duty Cycle NVNT ANT1 1-DH1 2480



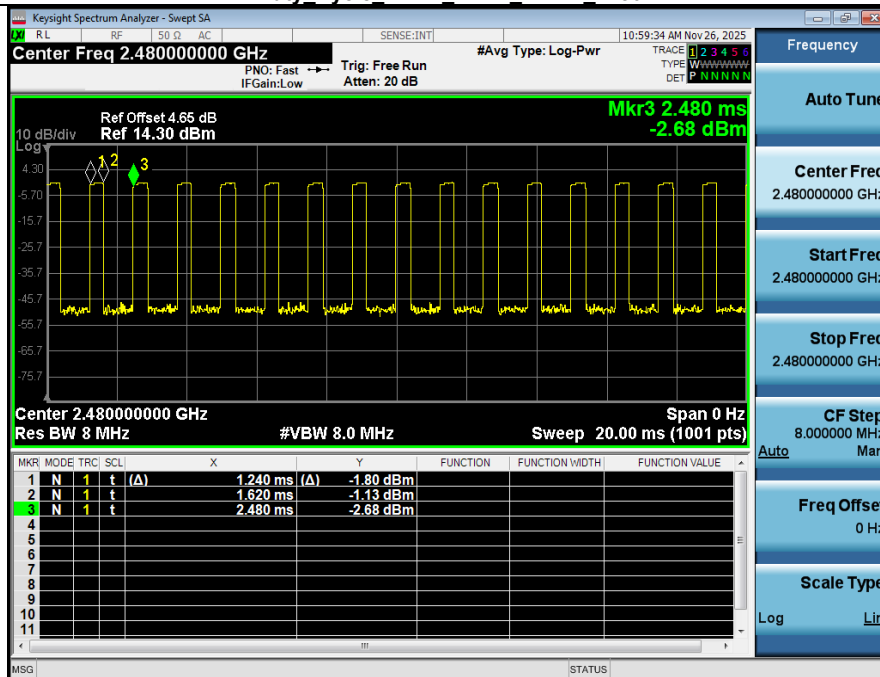
Duty Cycle NVNT ANT1 2-DH1 2402



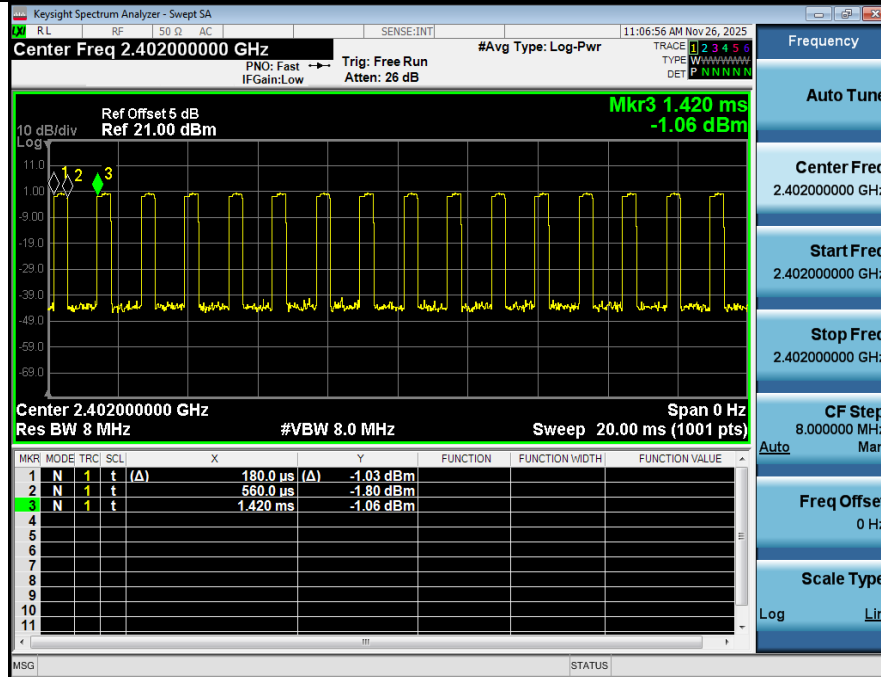
Duty Cycle NVNT ANT1 2-DH1 2441



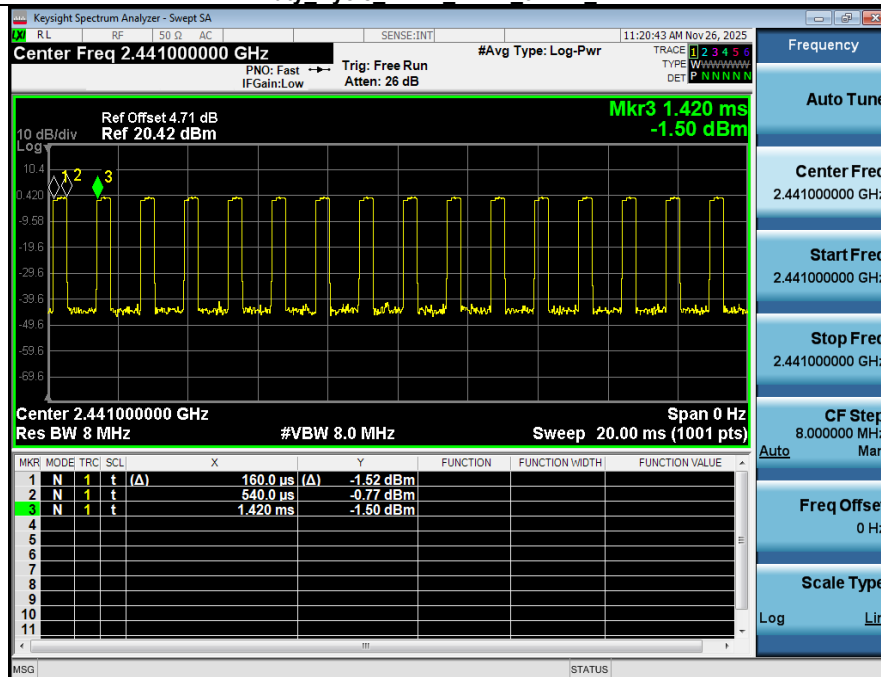
Duty Cycle NVNT ANT1 2-DH1 2480



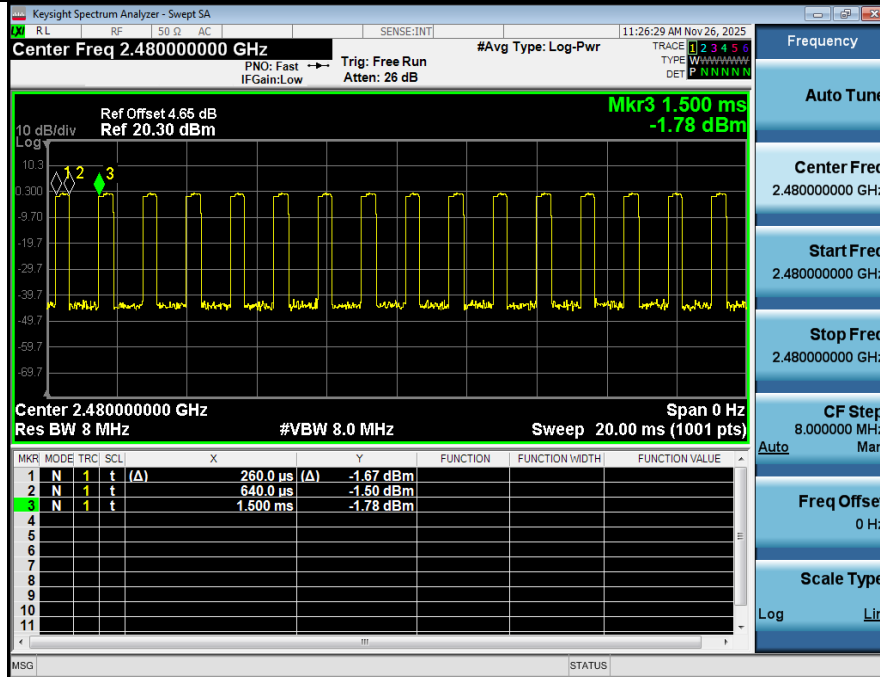
Duty Cycle NVNT ANT1 3-DH1 2402



Duty Cycle NVNT ANT1 3-DH1 2441

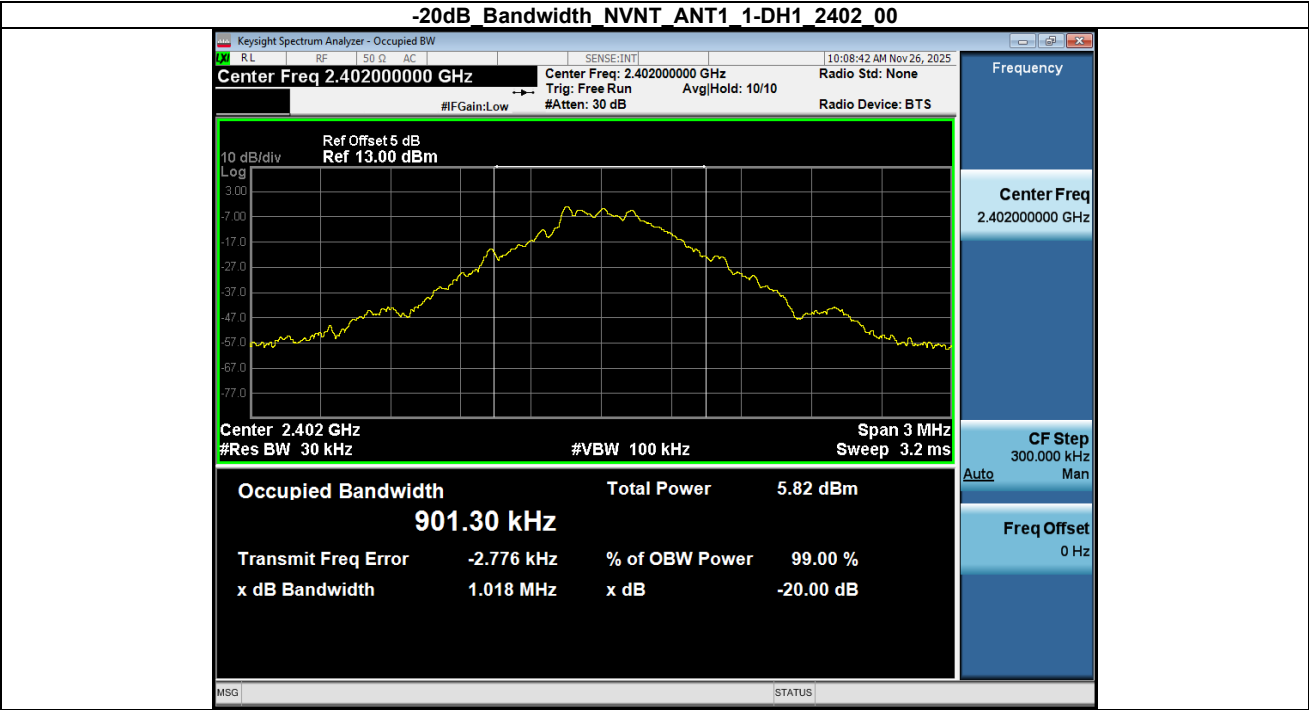


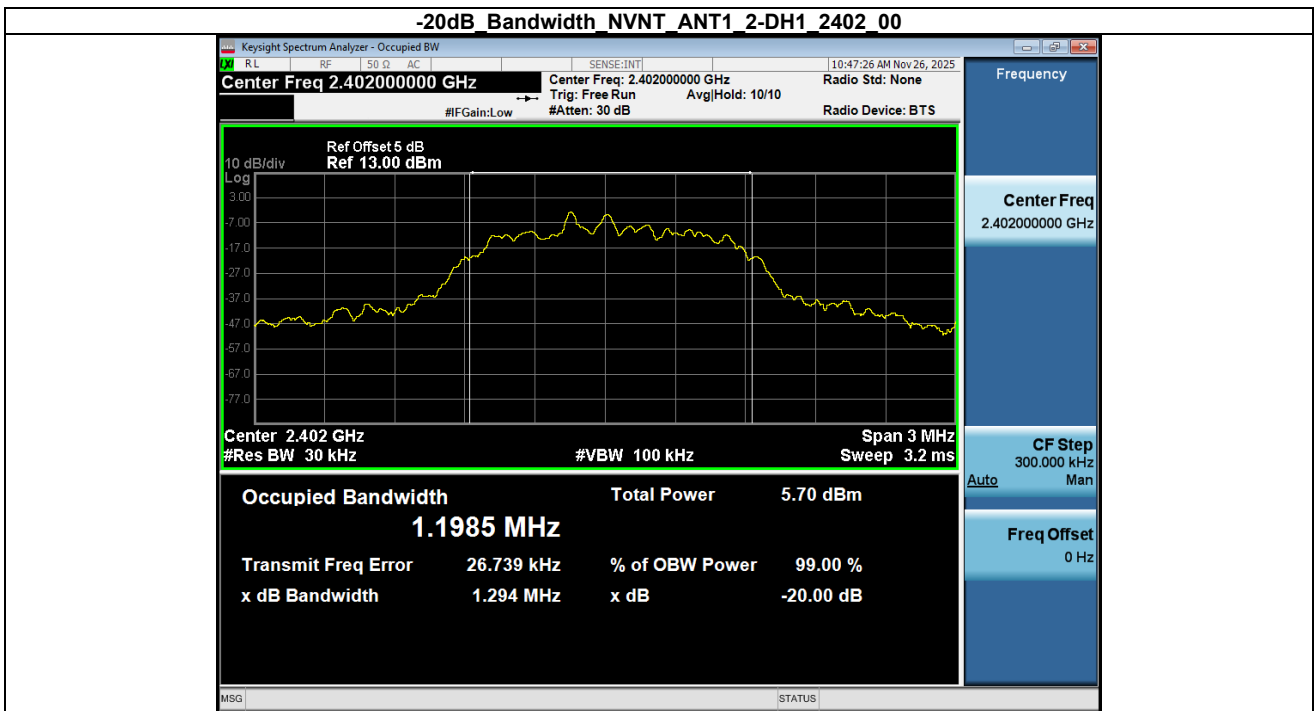
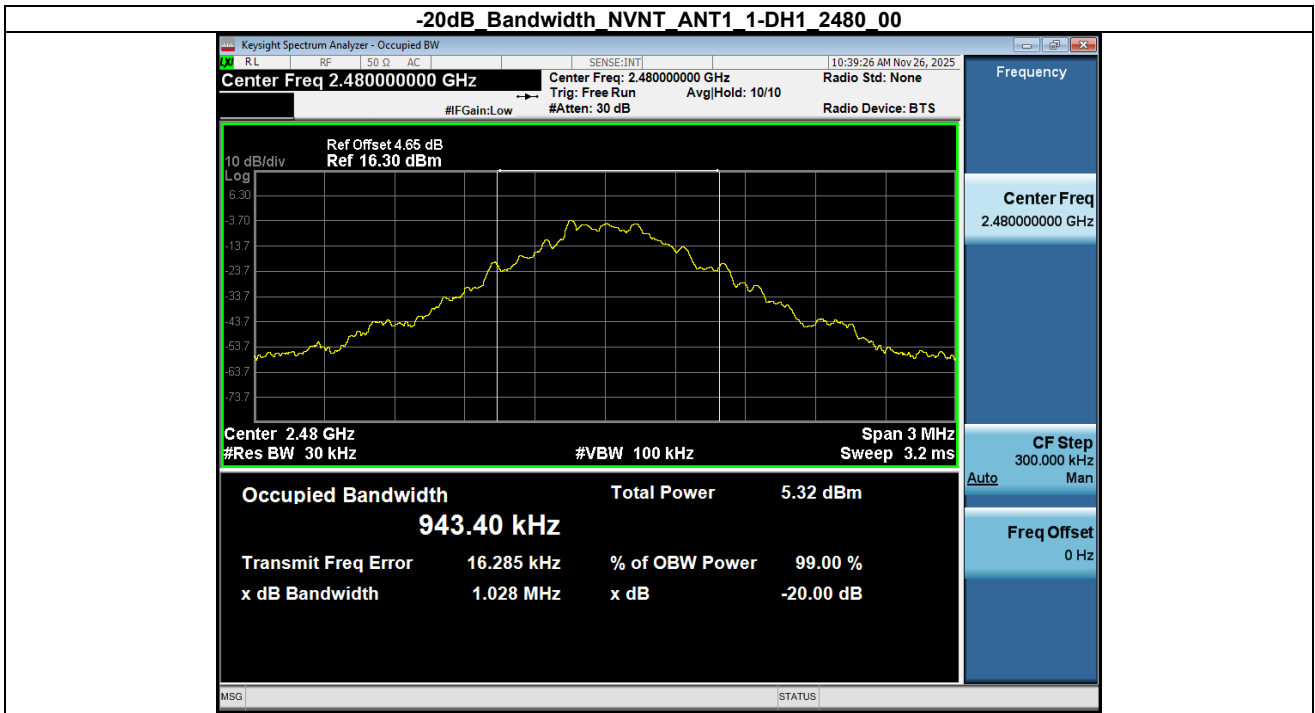
Duty Cycle NVNT ANT1 3-DH1 2480



2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	1.018	Yes
NVNT	ANT1	1-DH1	2441.00	1.029	Yes
NVNT	ANT1	1-DH1	2480.00	1.028	Yes
NVNT	ANT1	2-DH1	2402.00	1.294	Yes
NVNT	ANT1	2-DH1	2441.00	1.289	Yes
NVNT	ANT1	2-DH1	2480.00	1.285	Yes
NVNT	ANT1	3-DH1	2402.00	1.258	Yes
NVNT	ANT1	3-DH1	2441.00	1.254	Yes
NVNT	ANT1	3-DH1	2480.00	1.261	Yes





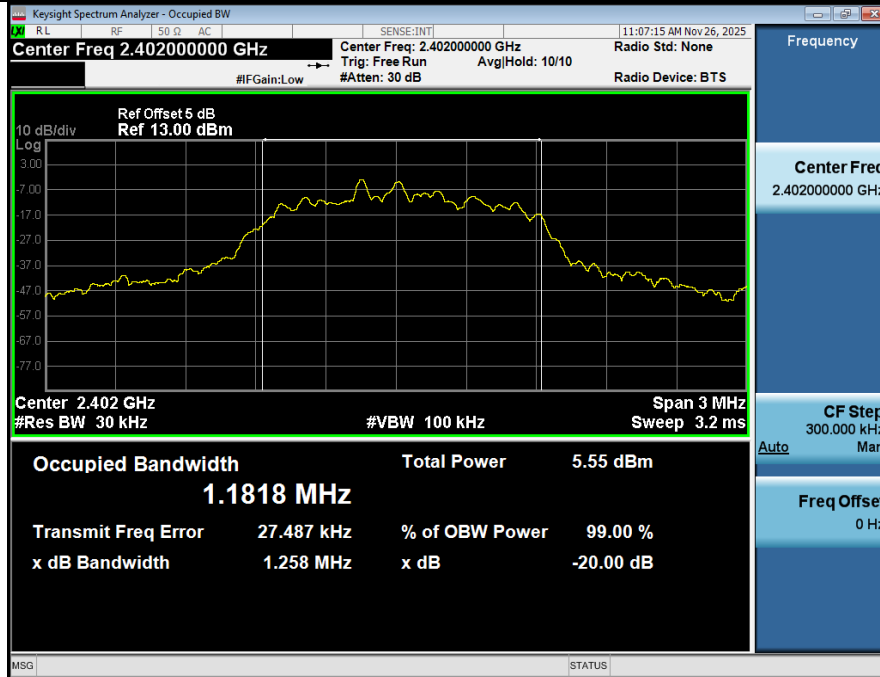
-20dB Bandwidth NVNT ANT1 2-DH1 2441 00



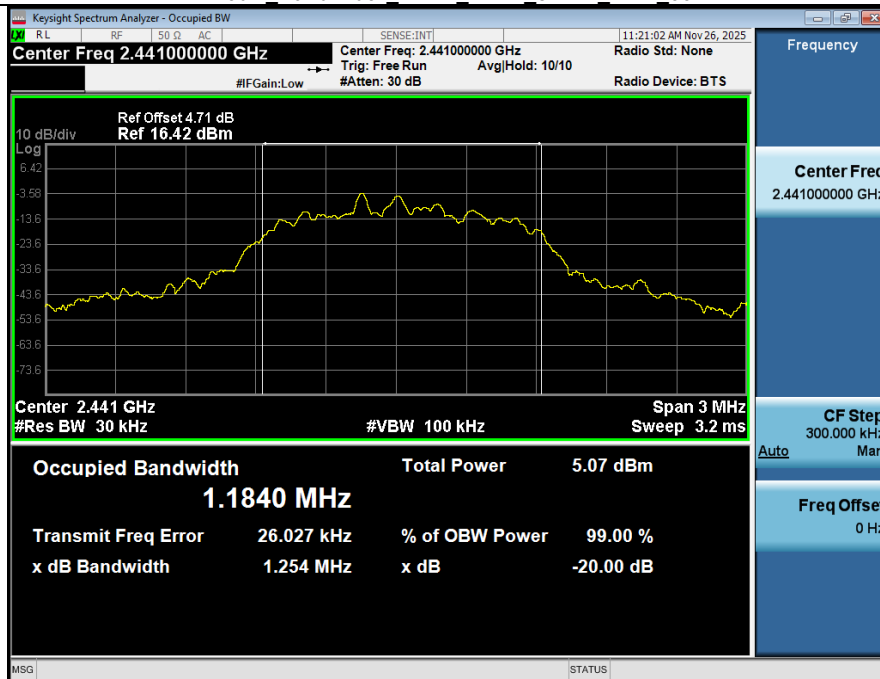
-20dB Bandwidth NVNT ANT1 2-DH1 2480 00

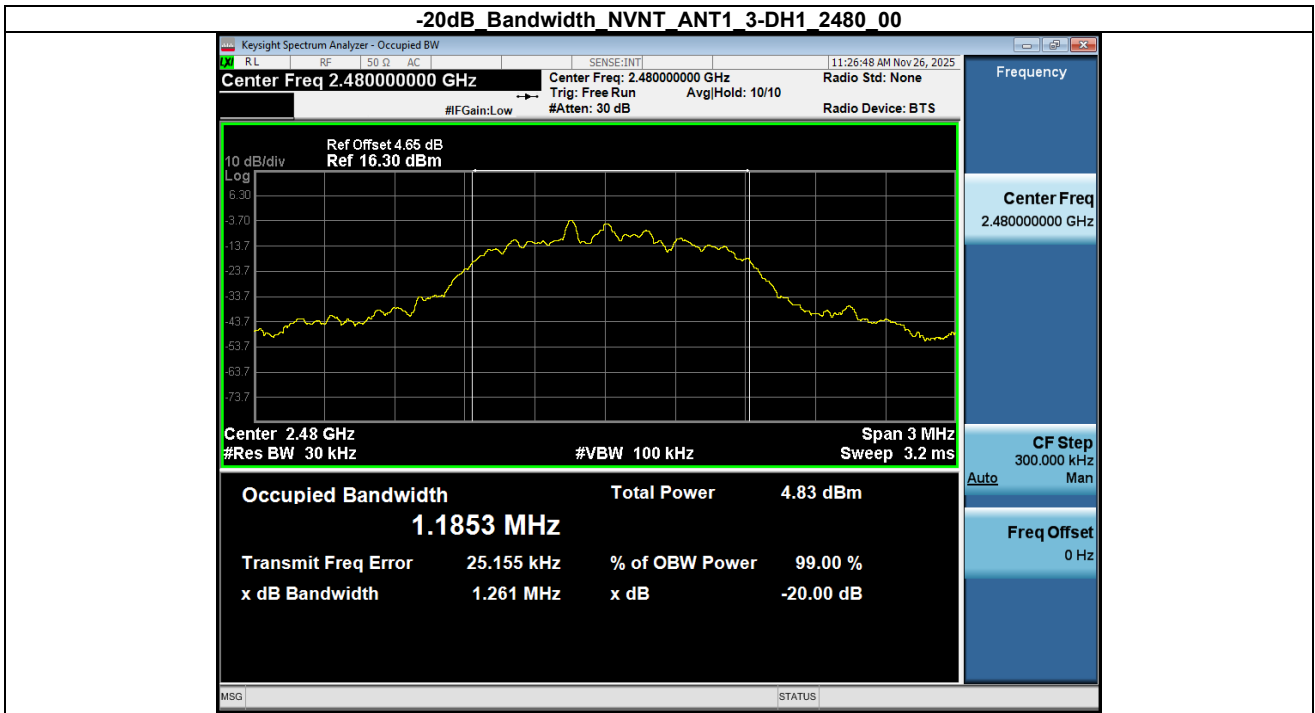


-20dB Bandwidth NVNT ANT1 3-DH1 2402 00



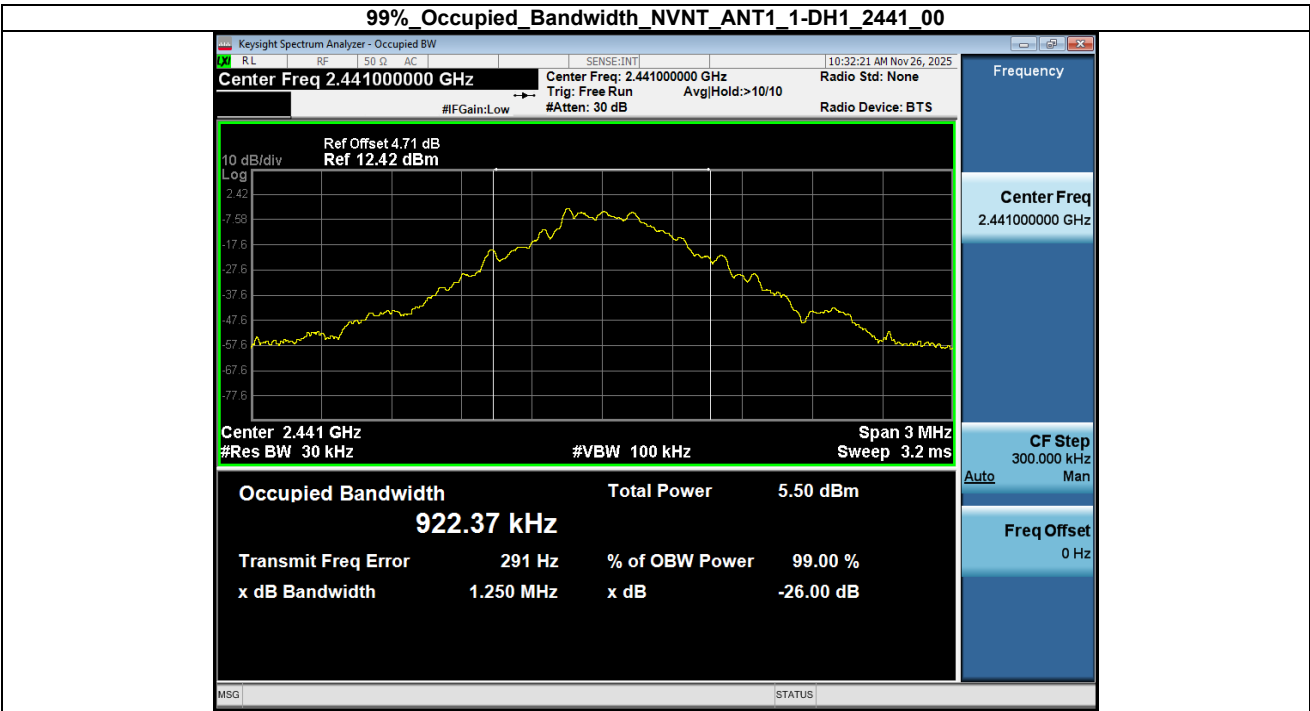
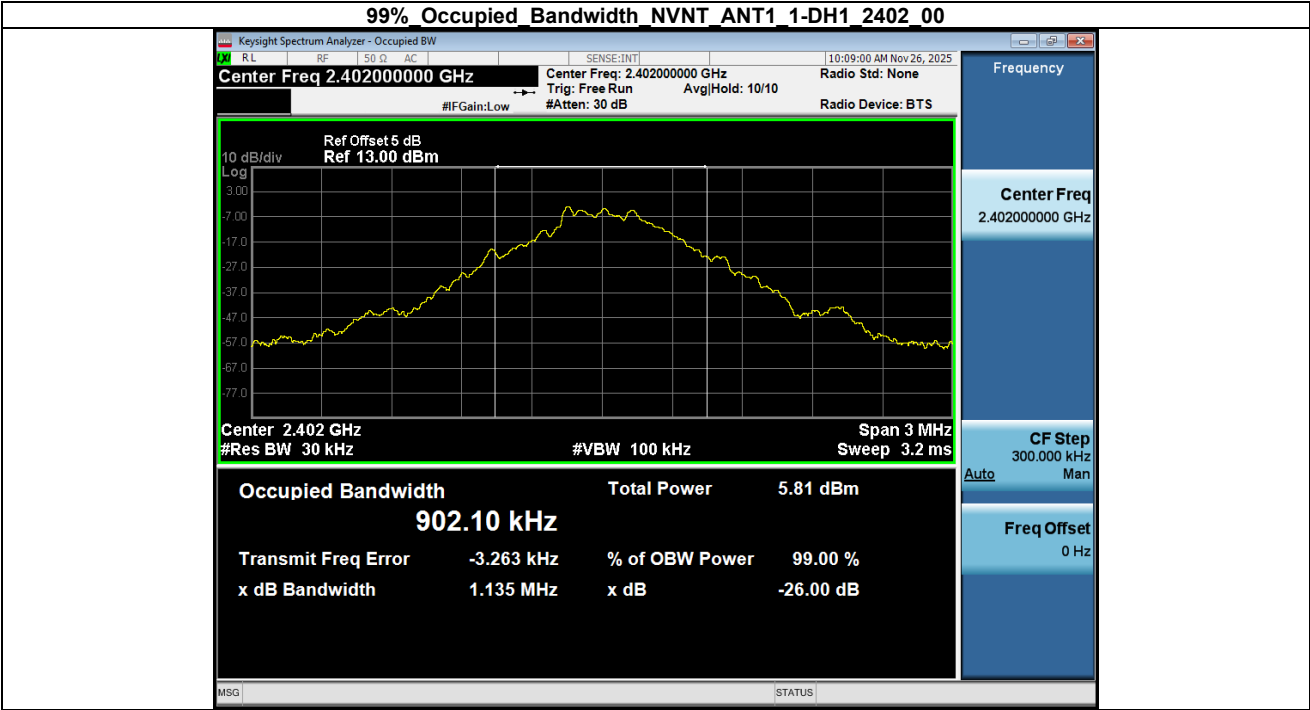
-20dB Bandwidth NVNT ANT1 3-DH1 2441 00

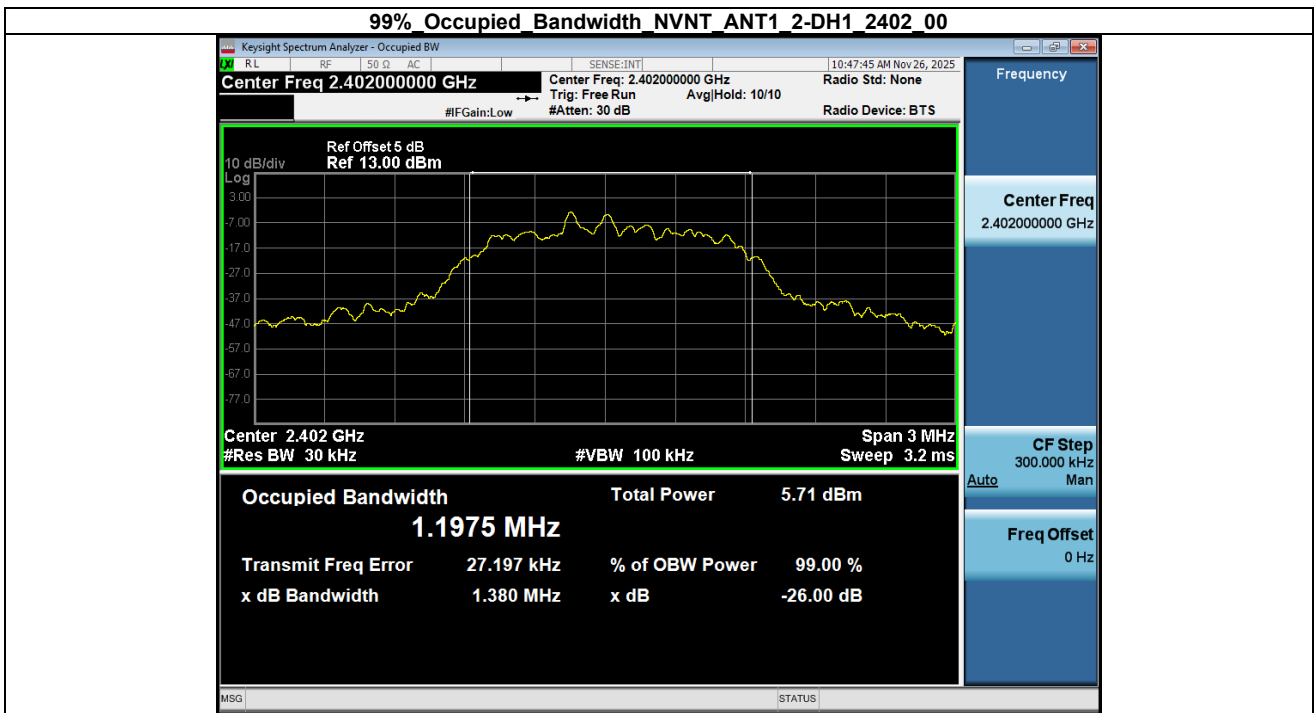
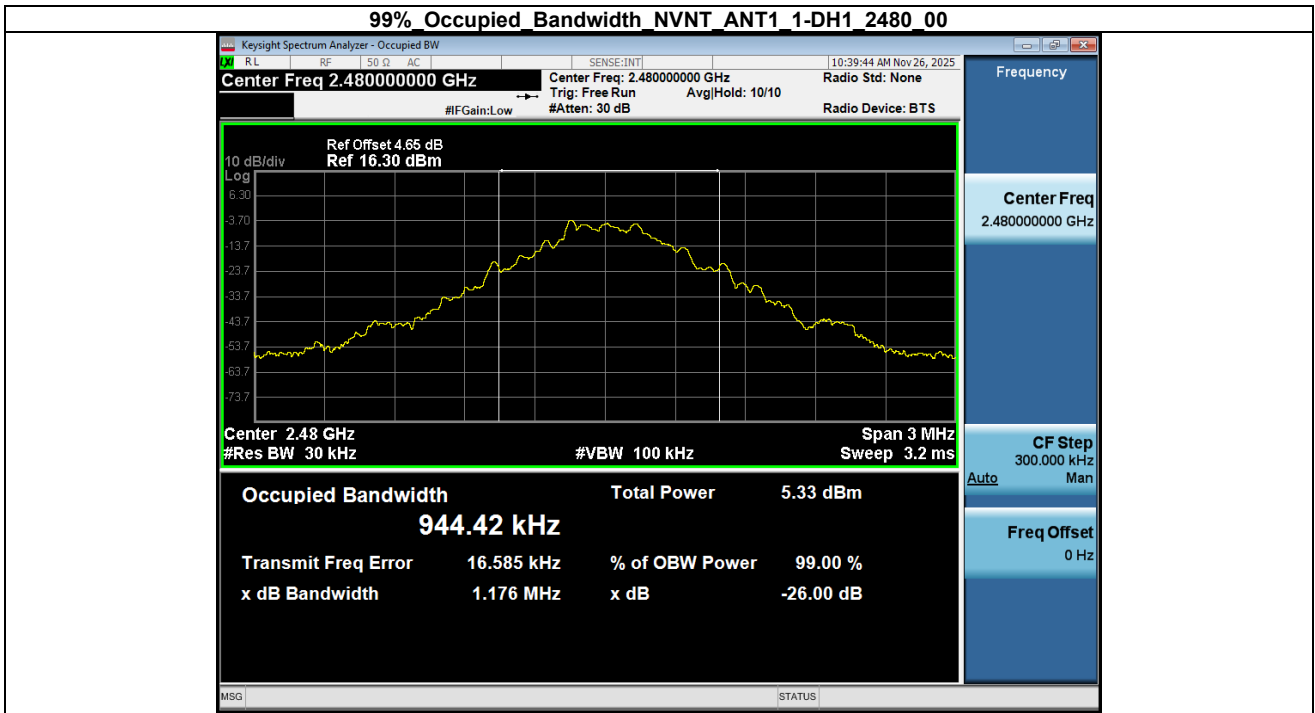




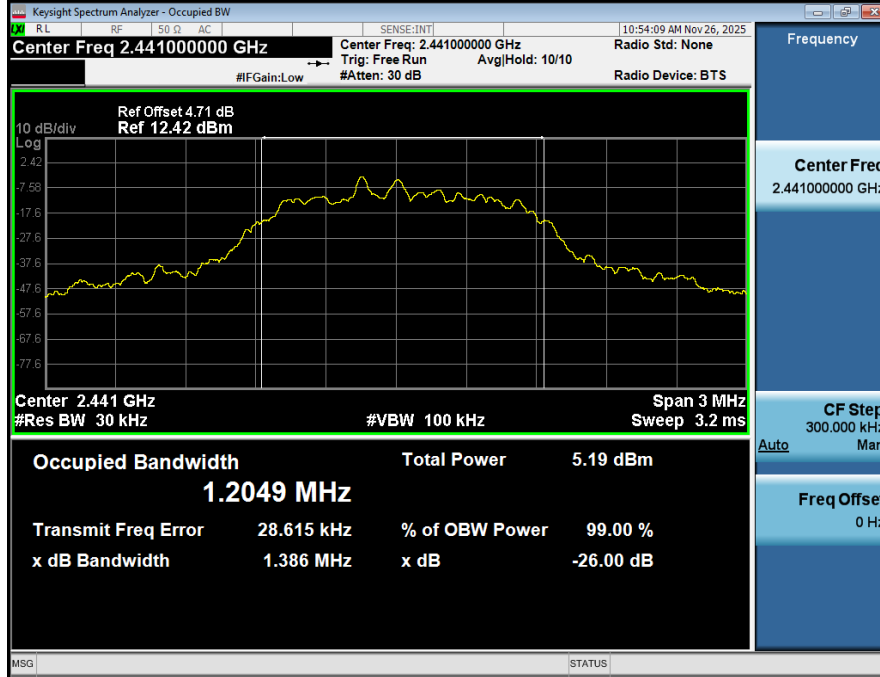
3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.902
NVNT	ANT1	1-DH1	2441.00	0.922
NVNT	ANT1	1-DH1	2480.00	0.944
NVNT	ANT1	2-DH1	2402.00	1.198
NVNT	ANT1	2-DH1	2441.00	1.205
NVNT	ANT1	2-DH1	2480.00	1.203
NVNT	ANT1	3-DH1	2402.00	1.181
NVNT	ANT1	3-DH1	2441.00	1.184
NVNT	ANT1	3-DH1	2480.00	1.185

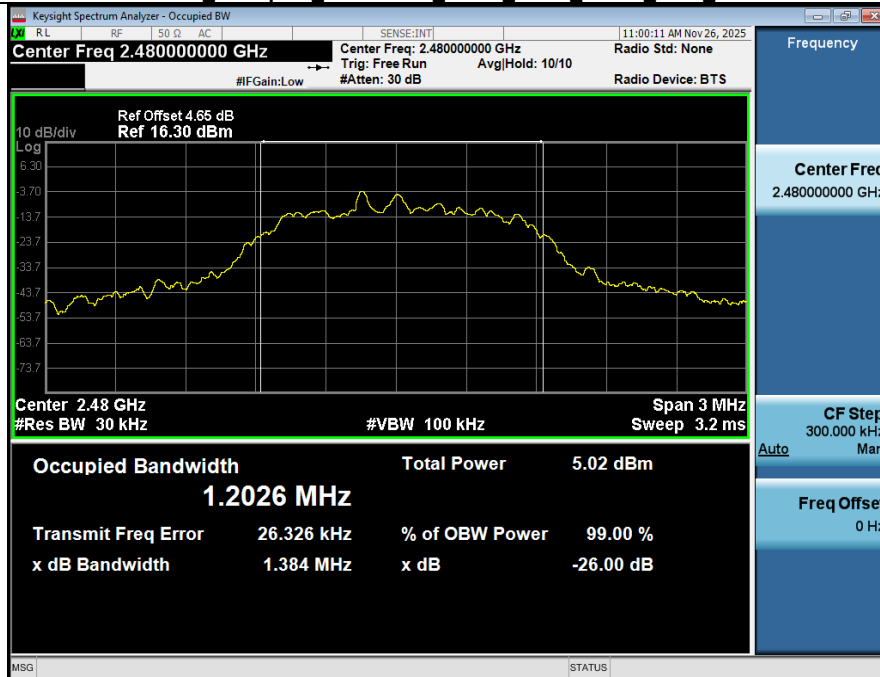


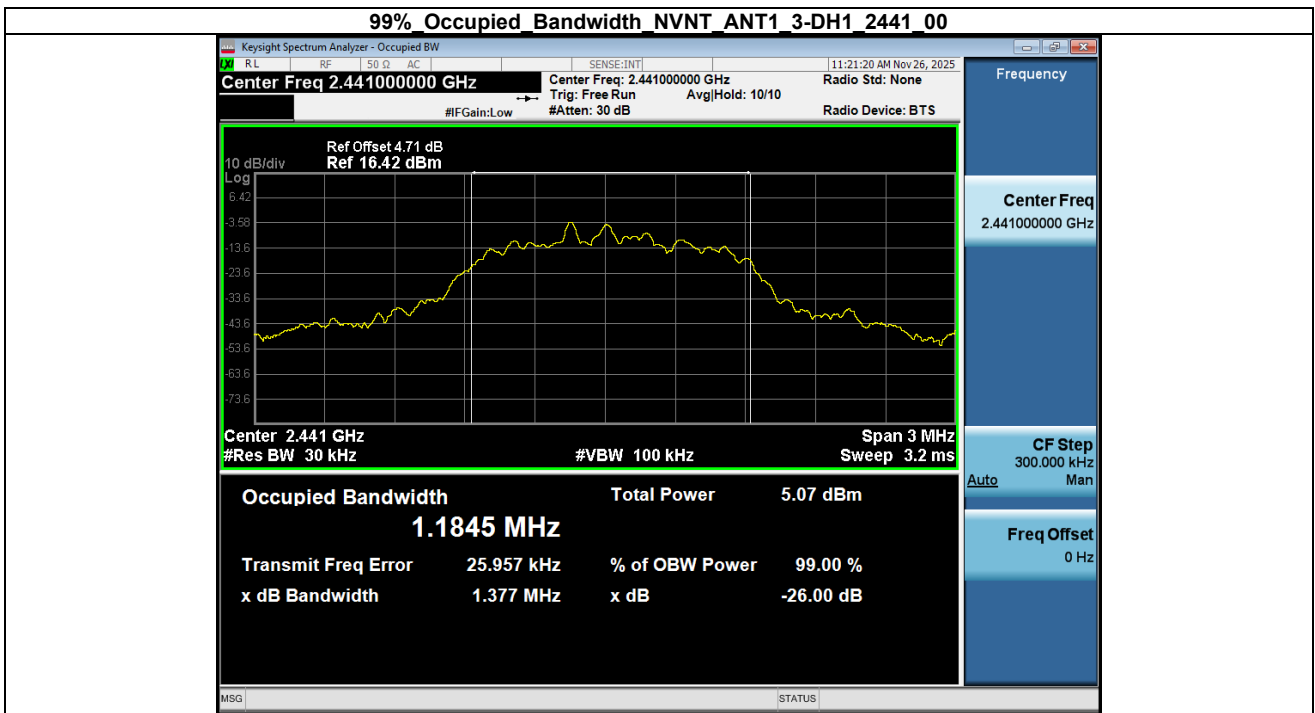
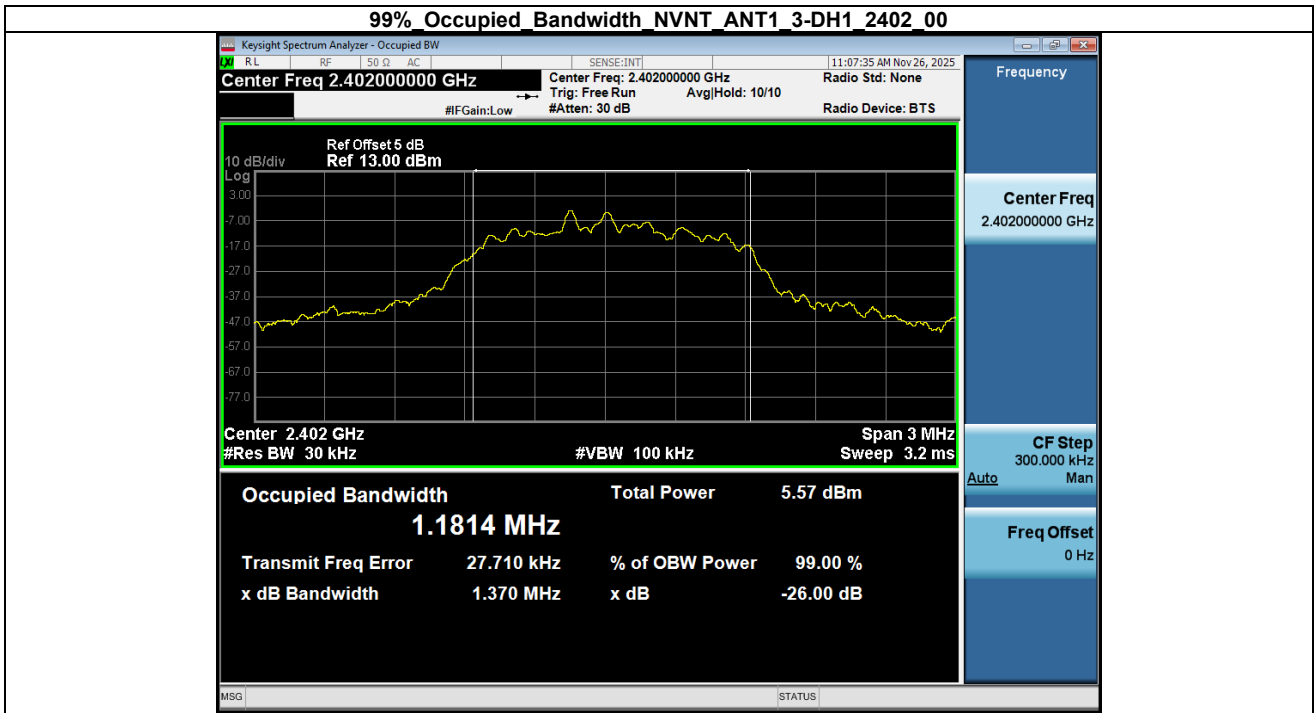


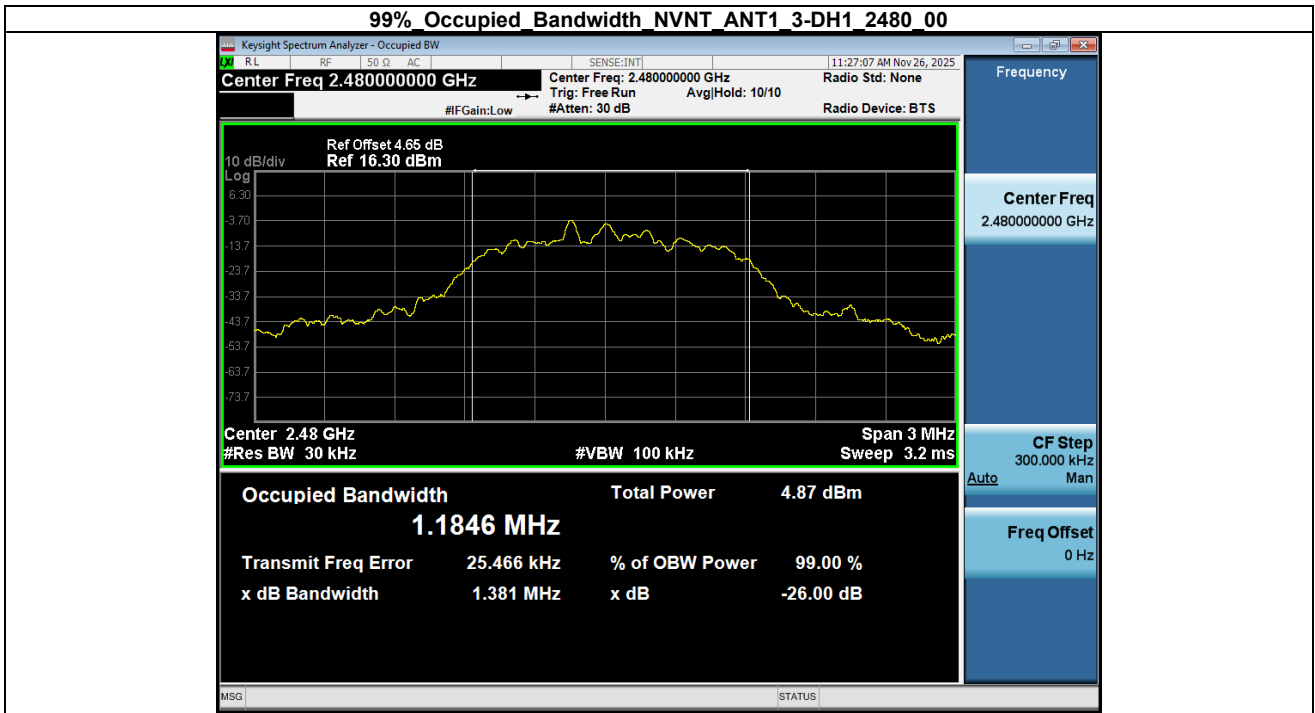
99% Occupied Bandwidth NVNT ANT1 2-DH1 2441 00



99% Occupied Bandwidth NVNT ANT1 2-DH1 2480 00







4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	-1.07	0.78	125	Pass
NVNT	ANT1	1-DH1	2441.00	-1.45	0.72	125	Pass
NVNT	ANT1	1-DH1	2480.00	-1.68	0.68	125	Pass
NVNT	ANT1	2-DH1	2402.00	-0.23	0.95	125	Pass
NVNT	ANT1	2-DH1	2441.00	-0.70	0.85	125	Pass
NVNT	ANT1	2-DH1	2480.00	-0.92	0.81	125	Pass
NVNT	ANT1	3-DH1	2402.00	0.32	1.08	125	Pass
NVNT	ANT1	3-DH1	2441.00	-0.13	0.97	125	Pass
NVNT	ANT1	3-DH1	2480.00	-0.46	0.90	125	Pass

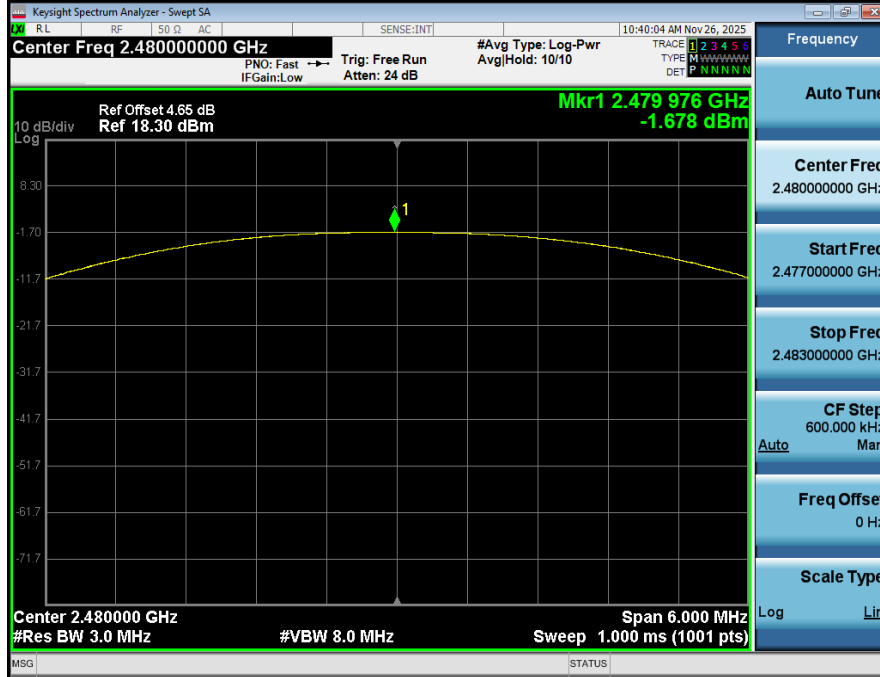
Peak Output Power NVNT ANT1 1-DH1 2402 00



Peak Output Power NVNT ANT1 1-DH1 2441 00



Peak Output Power NVNT ANT1 1-DH1 2480 00



Peak Output Power NVNT ANT1 2-DH1 2402 00



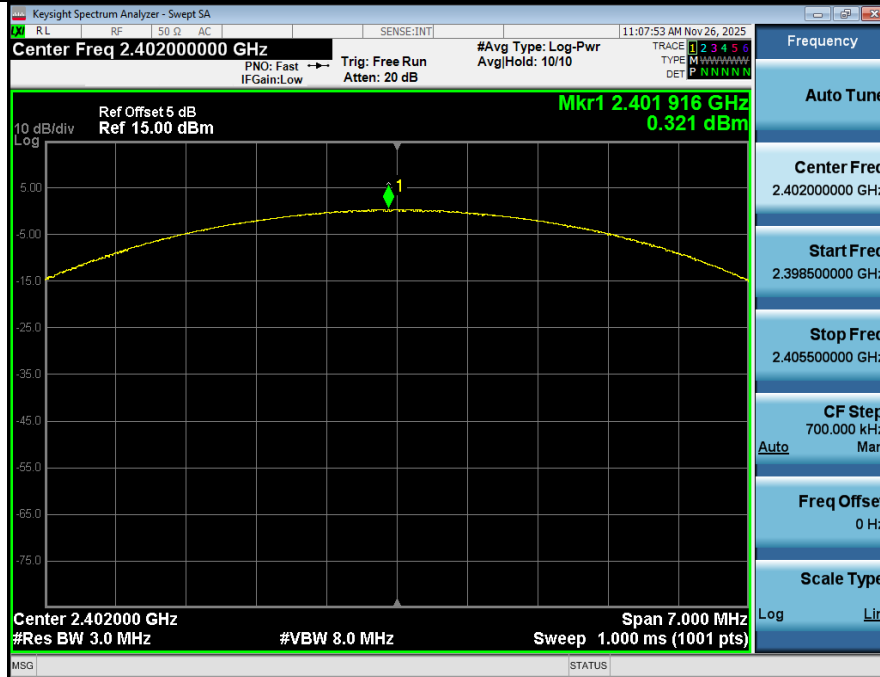
Peak Output Power NVNT ANT1 2-DH1 2441 00



Peak Output Power NVNT ANT1 2-DH1 2480 00



Peak Output Power NVNT ANT1 3-DH1 2402 00



Peak Output Power NVNT ANT1 3-DH1 2441 00



Peak Output Power NVNT_ANT1 3-DH1_2480_00



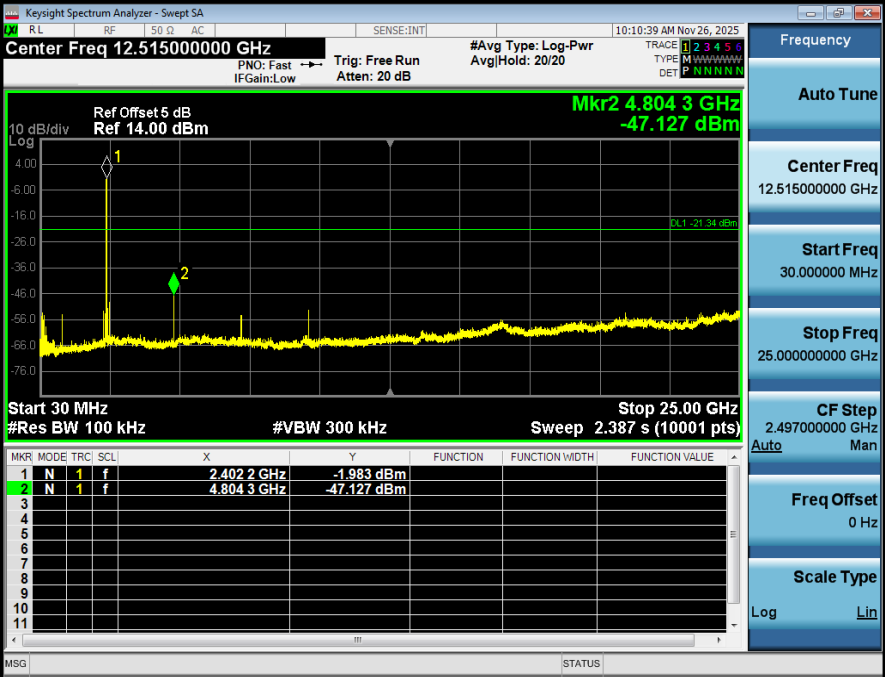
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.337	-47.127	-21.337	Pass
NVNT	ANT1	1-DH1	2441.00	-1.711	-43.323	-21.711	Pass
NVNT	ANT1	1-DH1	2480.00	-1.978	-45.014	-21.978	Pass
NVNT	ANT1	2-DH1	2402.00	-1.208	-45.862	-21.208	Pass
NVNT	ANT1	2-DH1	2441.00	-1.749	-47.361	-21.749	Pass
NVNT	ANT1	2-DH1	2480.00	-1.948	-47.947	-21.948	Pass
NVNT	ANT1	3-DH1	2402.00	-1.174	-47.973	-21.174	Pass
NVNT	ANT1	3-DH1	2441.00	-1.669	-48.387	-21.669	Pass
NVNT	ANT1	3-DH1	2480.00	-1.989	-49.843	-21.989	Pass

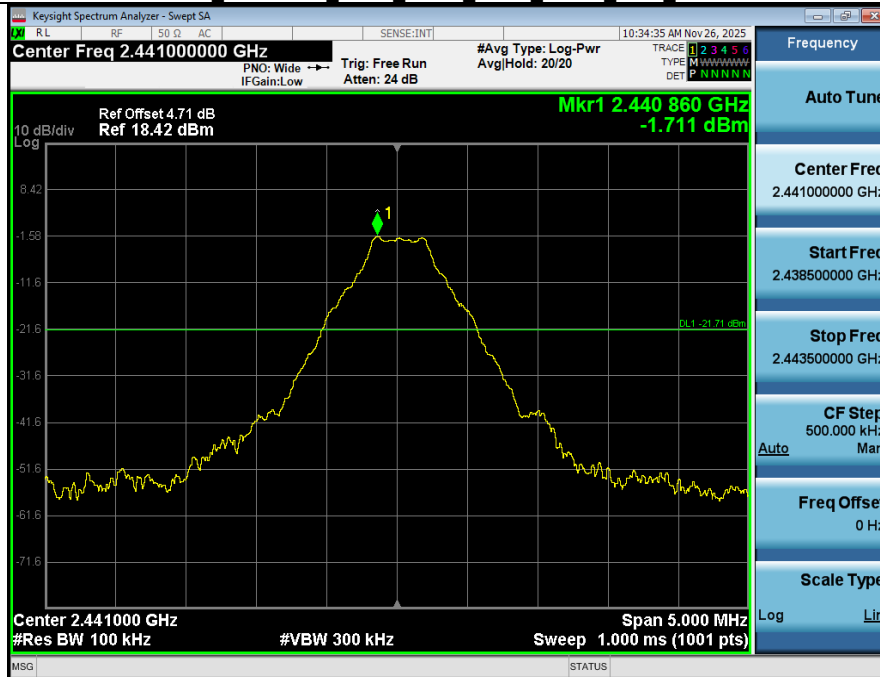
1 Reference Level NVNT ANT1 1-DH1 2402 00



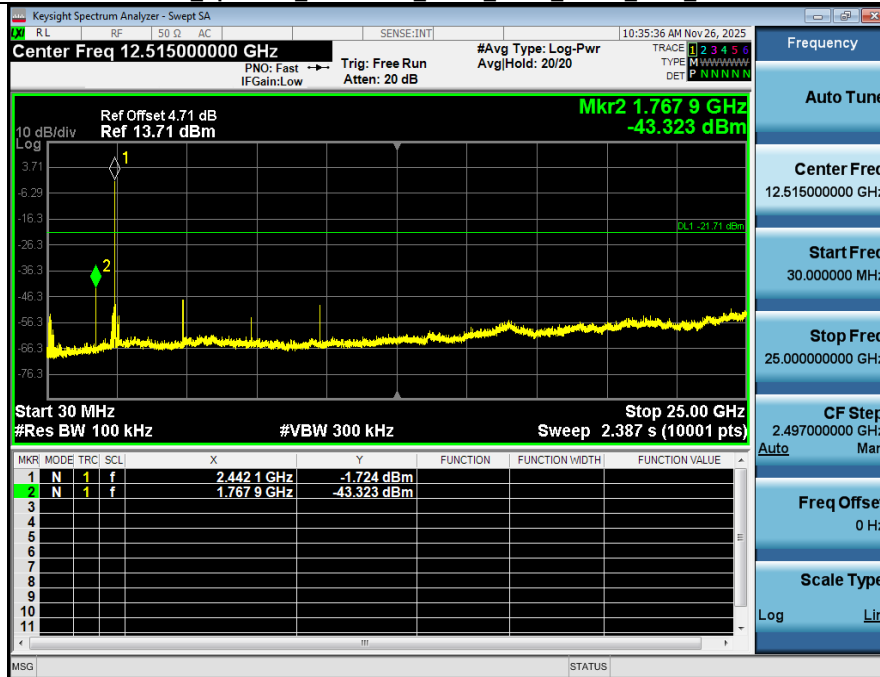
2 Spurious Emissions NVNT ANT1 1-DH1 2402 00



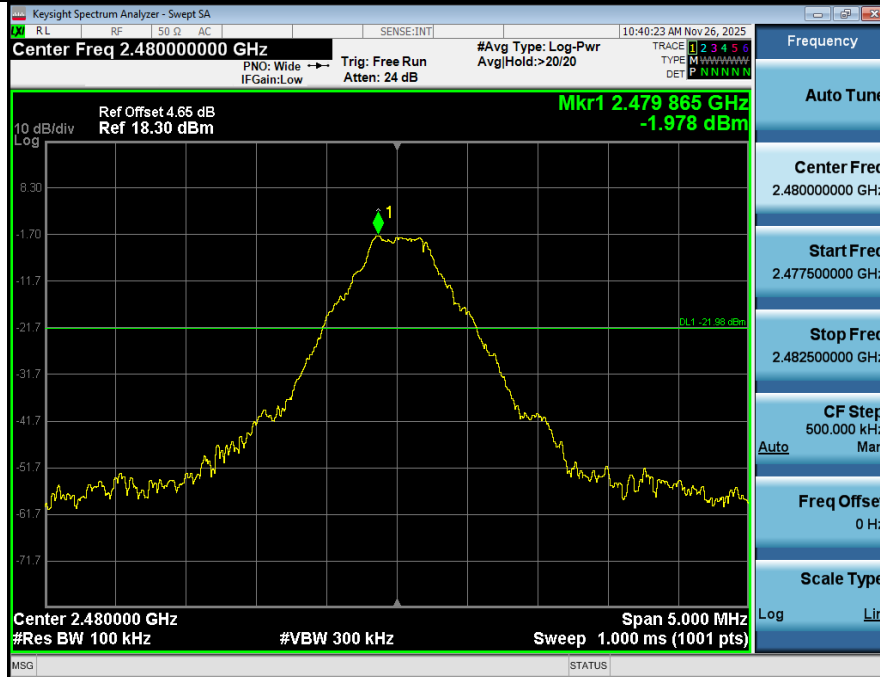
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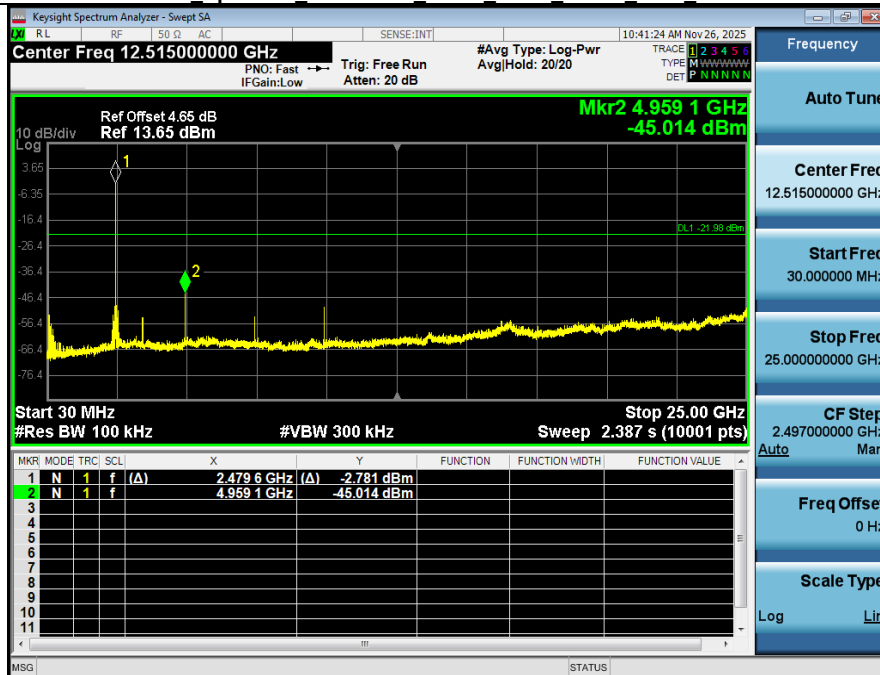
2 Spurious Emissions NVNT ANT1_1-DH1_2441_00



1 Reference Level NVNT ANT1 1-DH1 2480 00



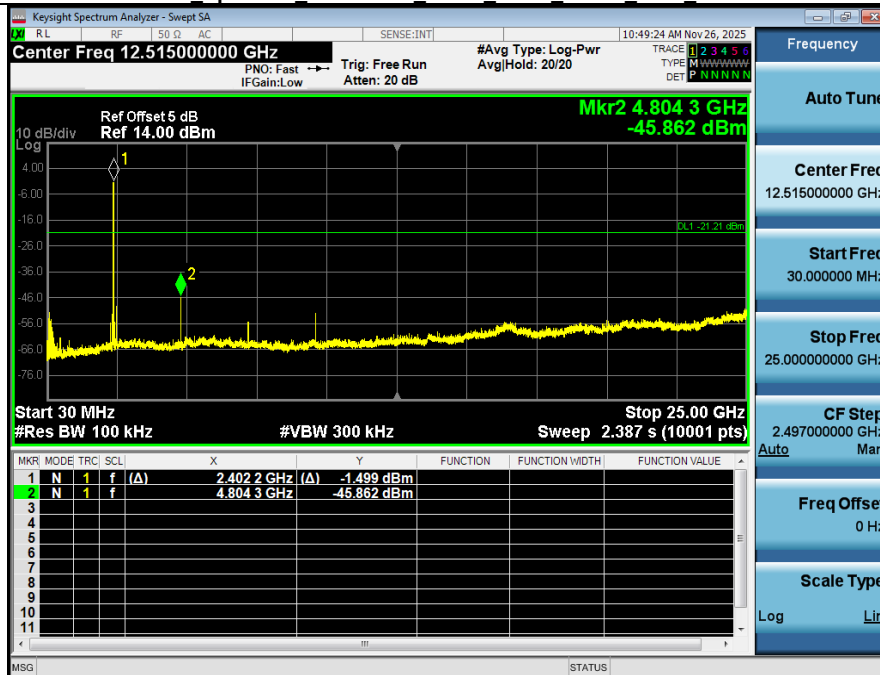
2 Spurious Emissions NVNT ANT1 1-DH1 2480 00



1 Reference Level NVNT ANT1 2-DH1 2402 00



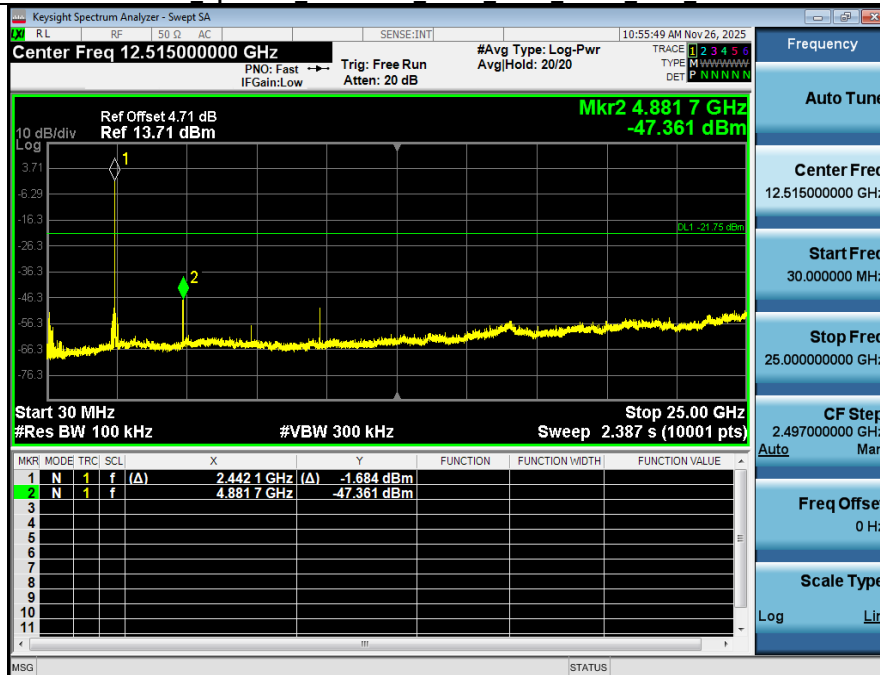
2 Spurious Emissions NVNT ANT1 2-DH1 2402 00



1 Reference Level NVNT ANT1 2-DH1 2441 00



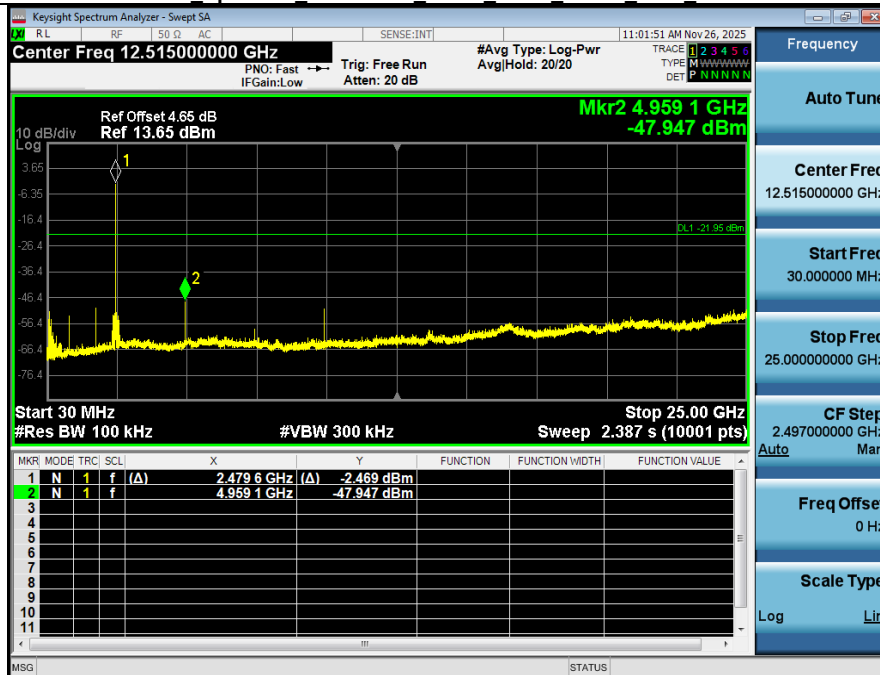
2 Spurious Emissions NVNT ANT1 2-DH1 2441 00



1 Reference Level NVNT ANT1 2-DH1 2480 00



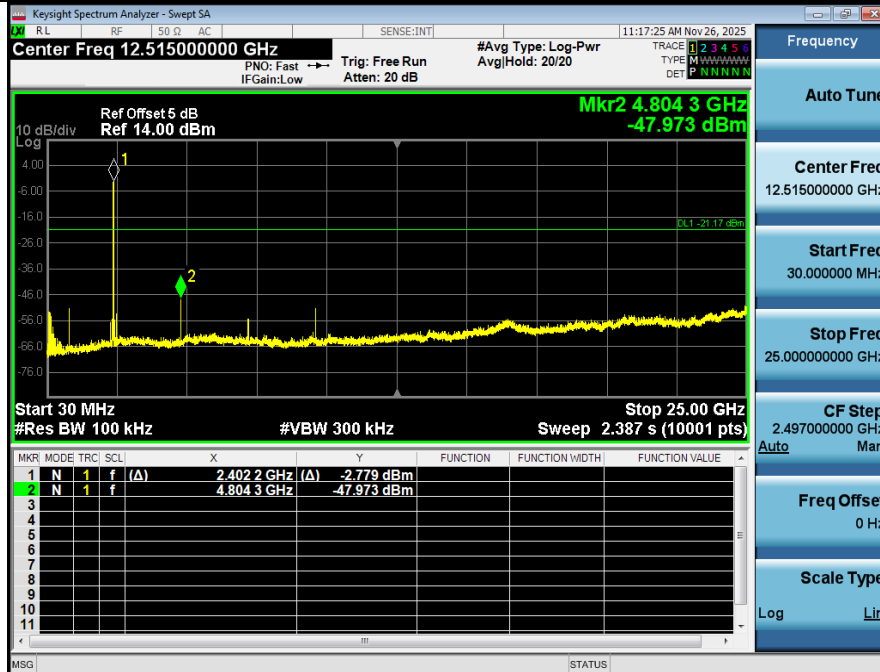
2 Spurious Emissions NVNT ANT1 2-DH1 2480 00



1 Reference Level NVNT ANT1 3-DH1 2402 00



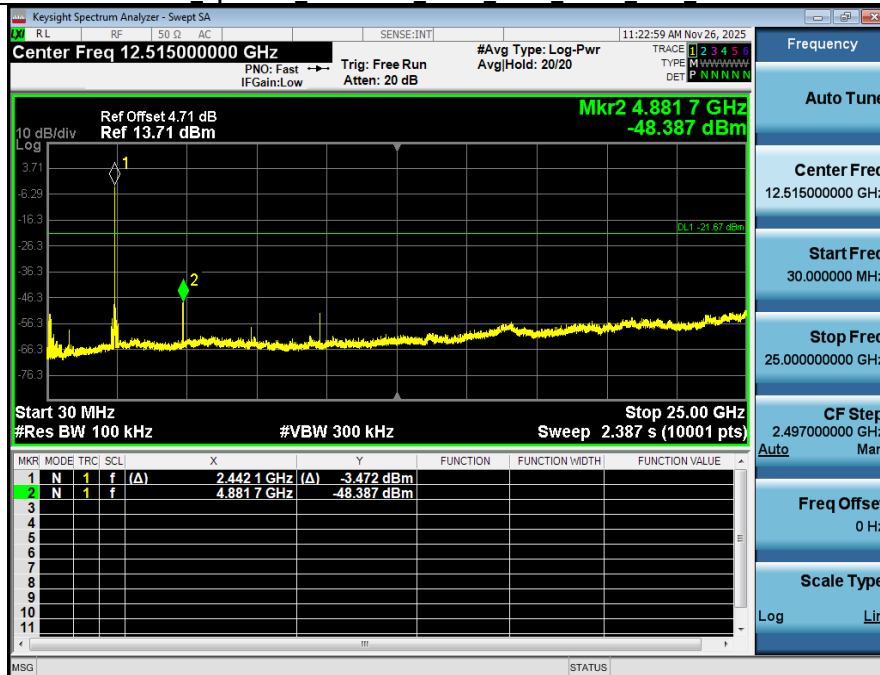
2 Spurious Emissions NVNT ANT1 3-DH1 2402 00



1 Reference Level NVNT ANT1 3-DH1 2441 00



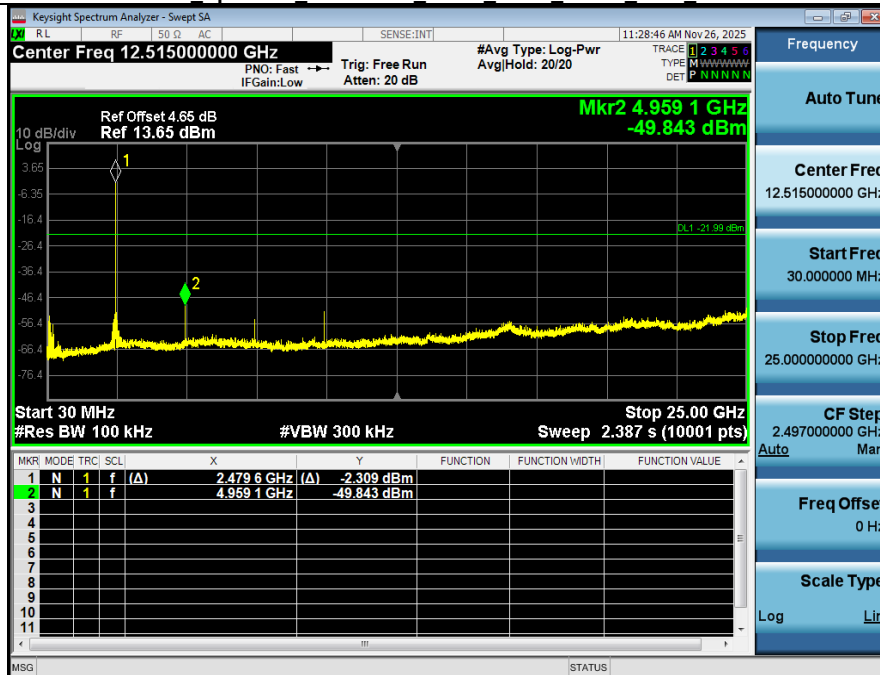
2 Spurious Emissions NVNT ANT1 3-DH1 2441 00



1 Reference Level NVNT ANT1 3-DH1 2480 00



2 Spurious Emissions NVNT ANT1 3-DH1 2480 00



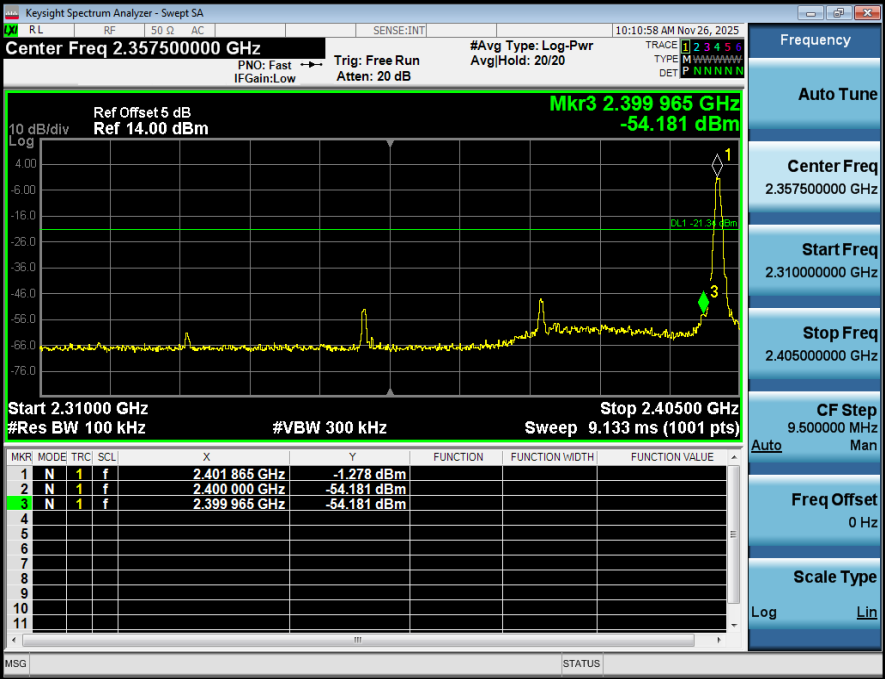
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.337	-54.181	-21.337	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-1.457	-48.346	-21.457	Pass
NVNT	ANT1	1-DH1	2480.00	-1.978	-57.540	-21.978	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-1.629	-48.770	-21.629	Pass
NVNT	ANT1	2-DH1	2402.00	-1.208	-52.855	-21.208	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-1.292	-48.169	-21.292	Pass
NVNT	ANT1	2-DH1	2480.00	-1.948	-58.219	-21.948	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-1.486	-49.696	-21.486	Pass
NVNT	ANT1	3-DH1	2402.00	-1.174	-55.835	-21.174	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-1.169	-48.959	-21.169	Pass
NVNT	ANT1	3-DH1	2480.00	-1.989	-58.221	-21.989	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-1.511	-50.128	-21.511	Pass

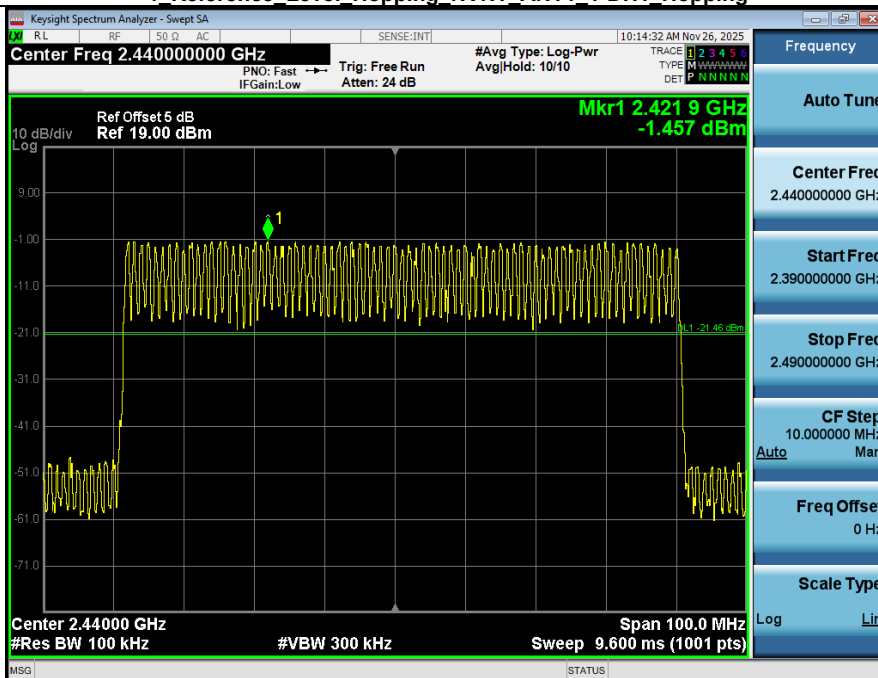
1 Reference Level NVNT ANT1 1-DH1 2402 00



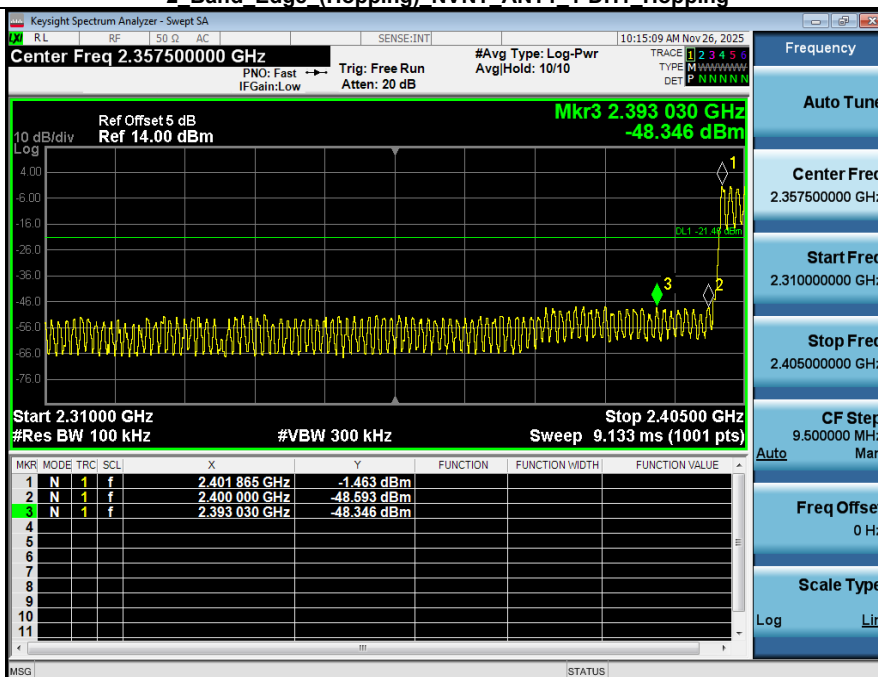
2 Bandedge NVNT ANT1 1-DH1 2402 00



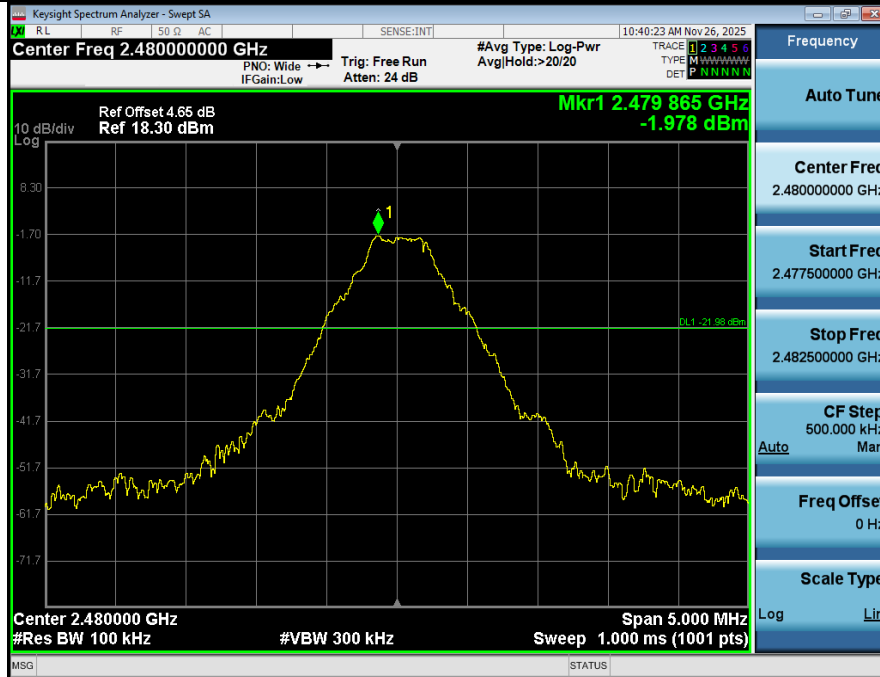
1 Reference Level Hopping NVNT ANT1 1-DH1 Hopping



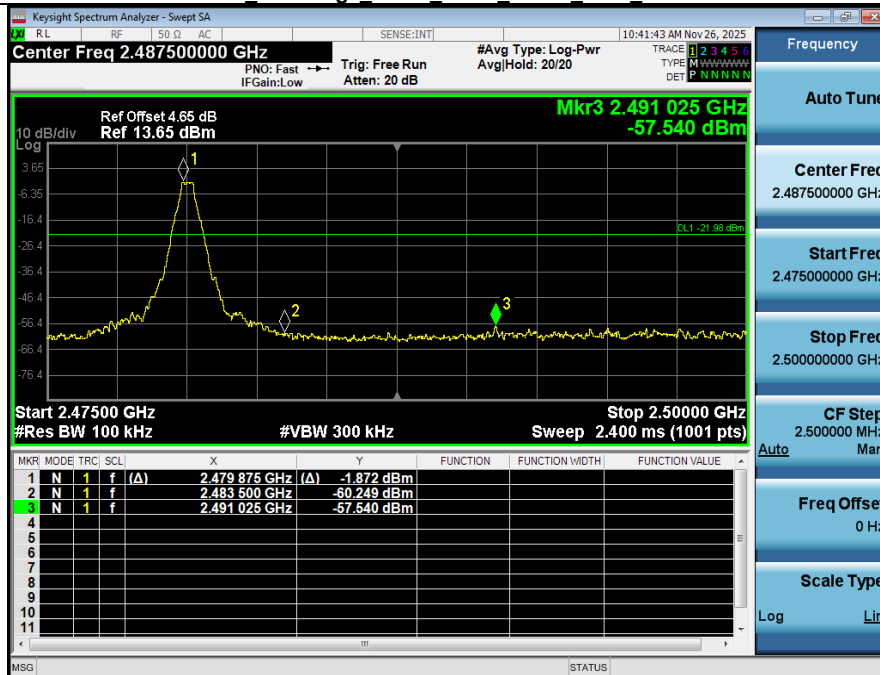
2 Band Edge (Hopping) NVNT ANT1 1-DH1 Hopping



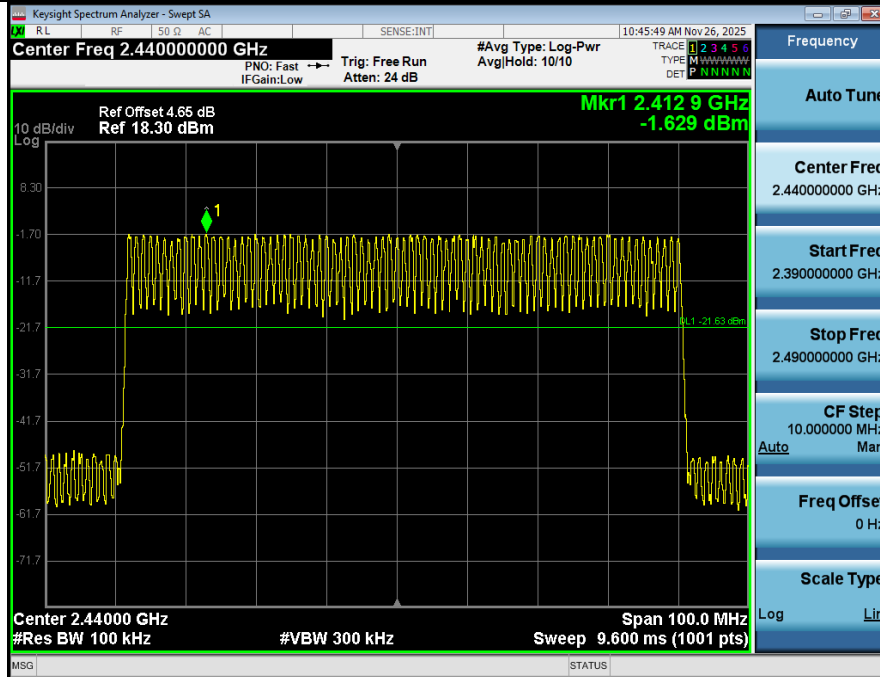
1 Reference Level NVNT ANT1 1-DH1 2480 00



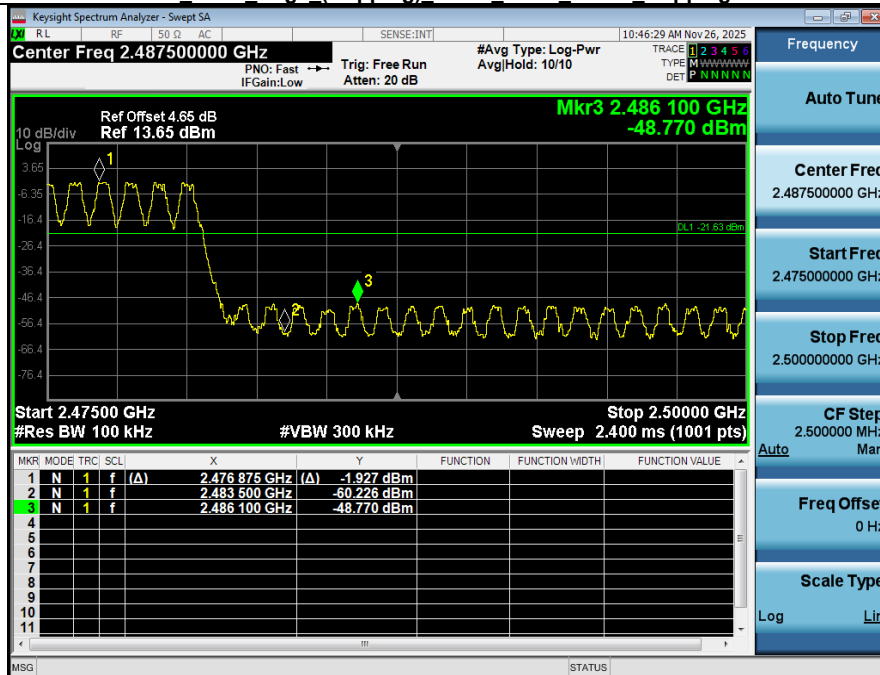
2 Bandedge NVNT ANT1 1-DH1 2480 00



1 Reference Level Hopping NVNT ANT1 1-DH1 Hopping



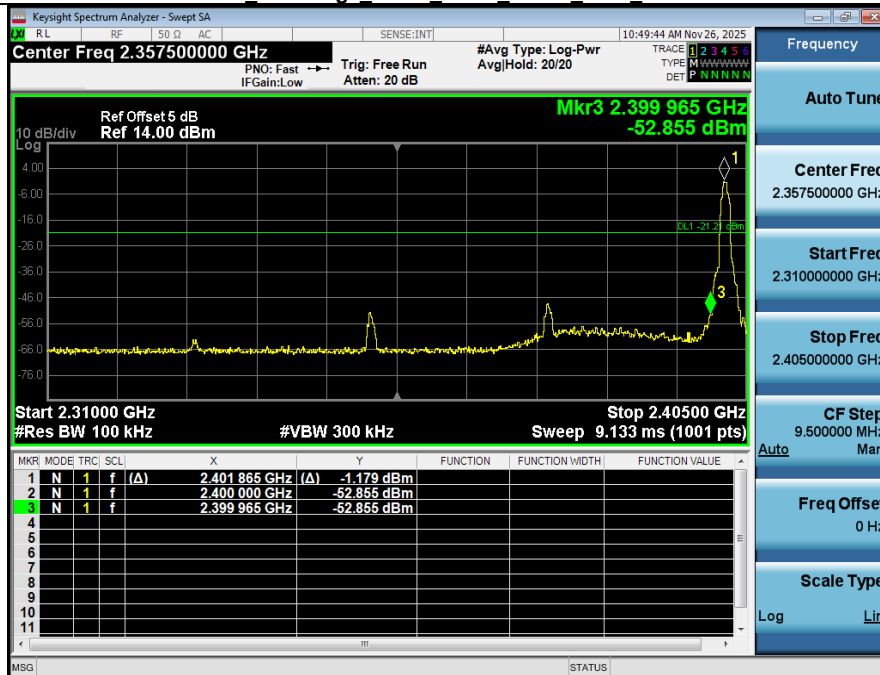
2 Band Edge (Hopping) NVNT ANT1 1-DH1 Hopping



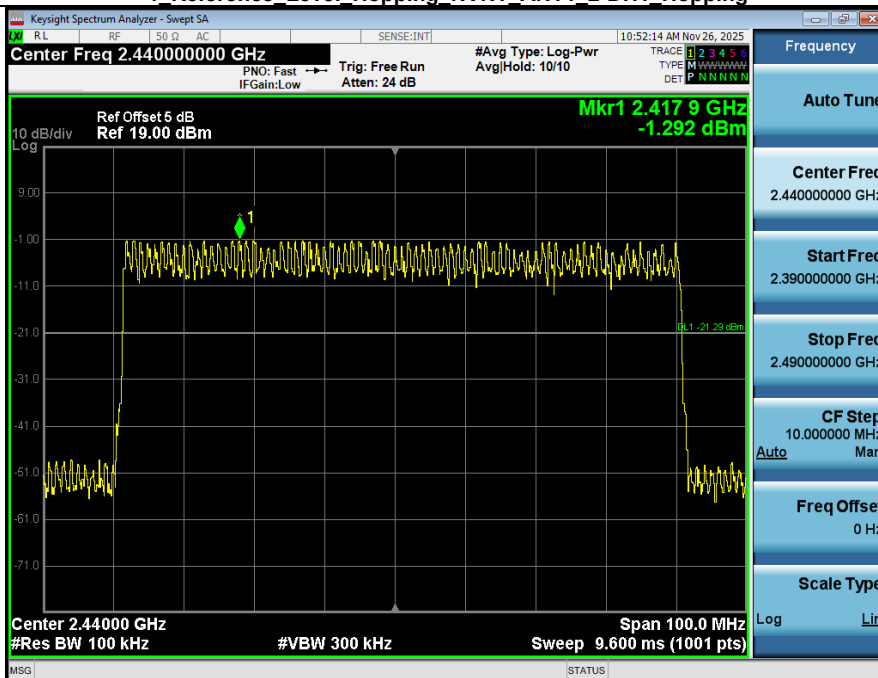
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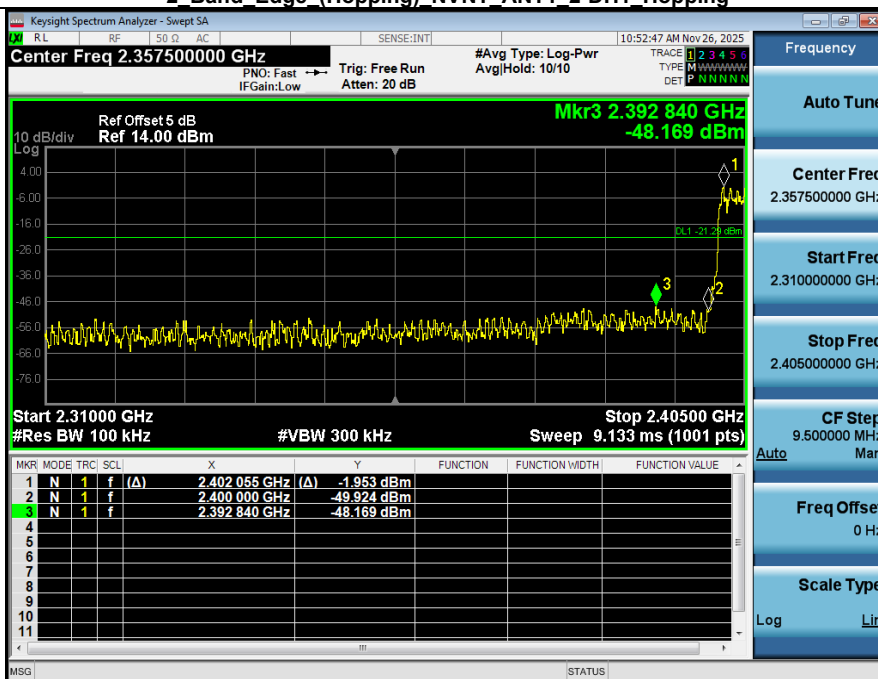
2 Bandedge NVNT ANT1 2-DH1 2402 00



1 Reference Level Hopping NVNT ANT1 2-DH1 Hopping



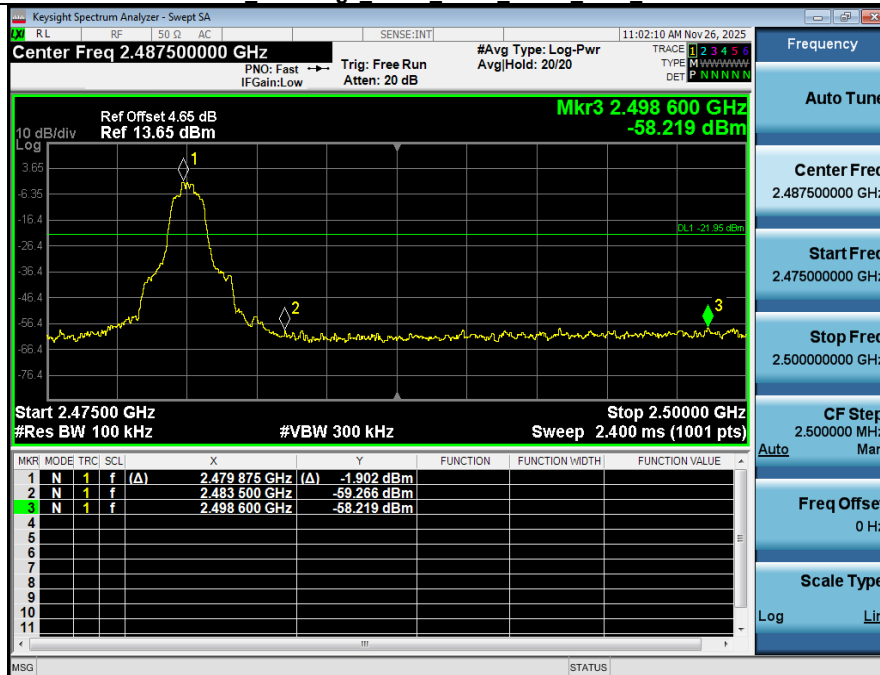
2 Band Edge (Hopping) NVNT ANT1 2-DH1 Hopping



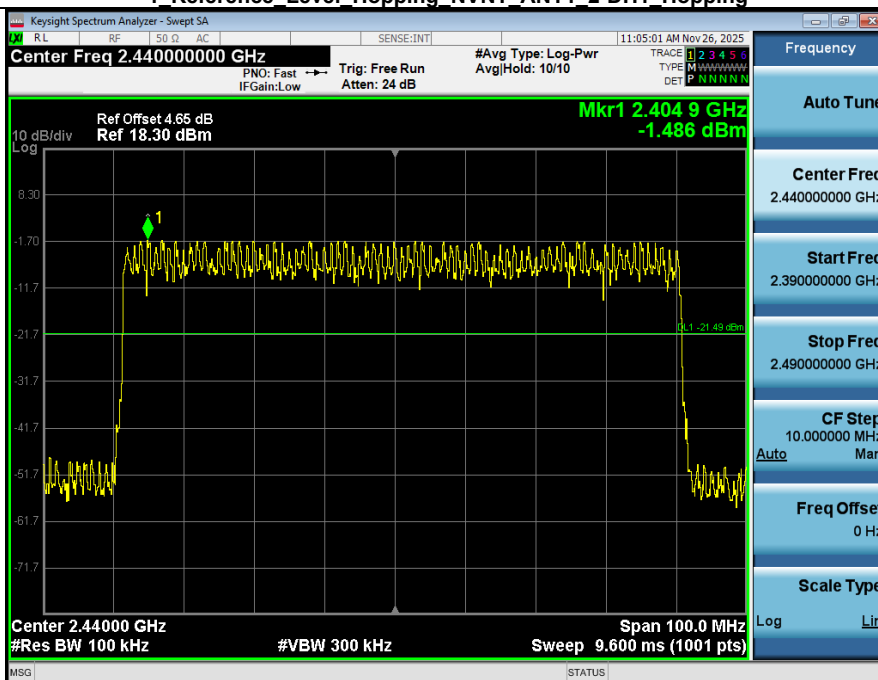
1 Reference Level NVNT ANT1 2-DH1 2480 00



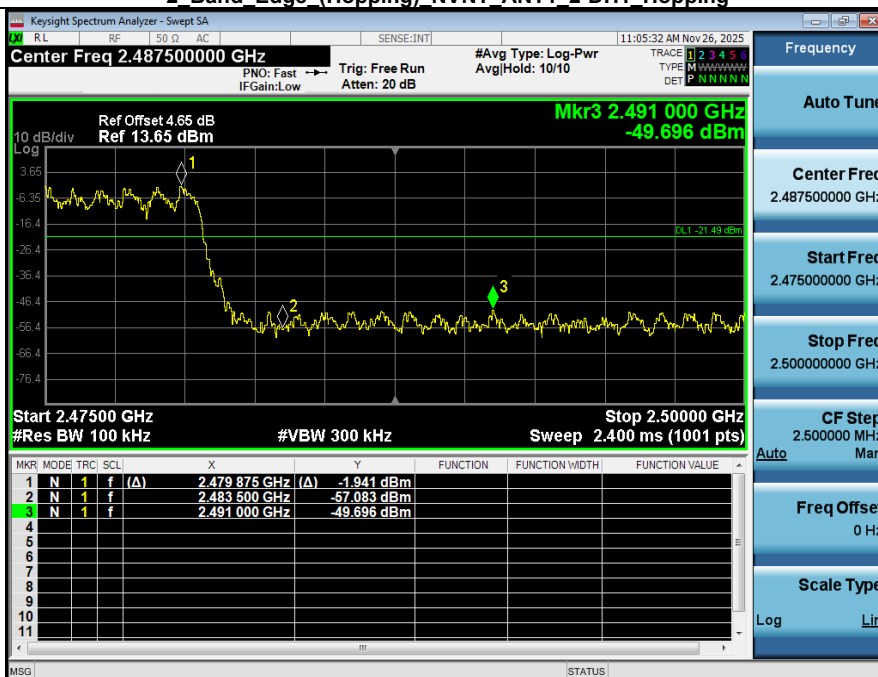
2 Bandedge NVNT ANT1 2-DH1 2480 00



1 Reference Level Hopping NVNT ANT1 2-DH1 Hopping



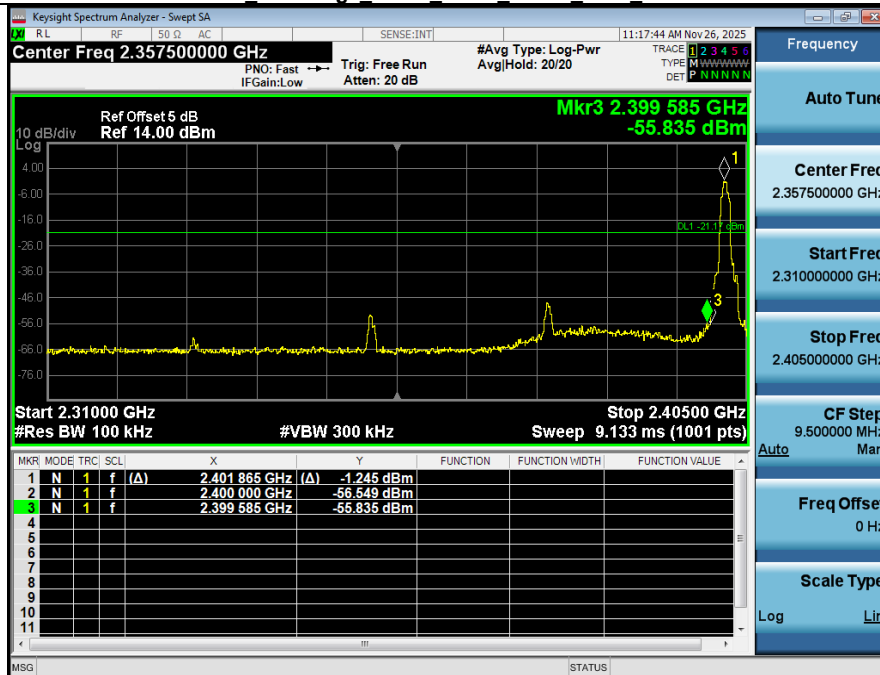
2 Band Edge (Hopping) NVNT ANT1 2-DH1 Hopping



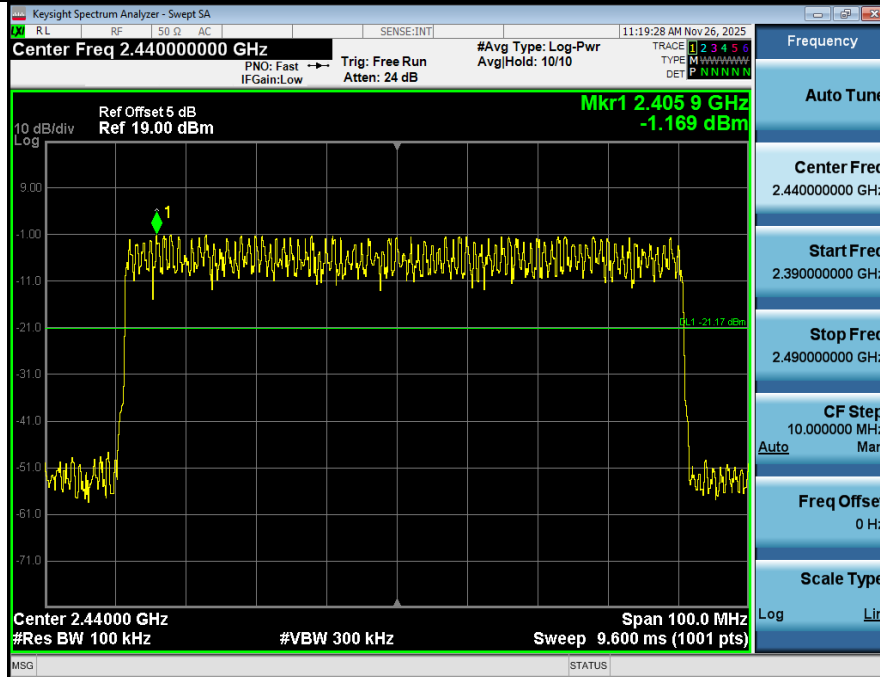
1 Reference Level NVNT ANT1 3-DH1 2402 00



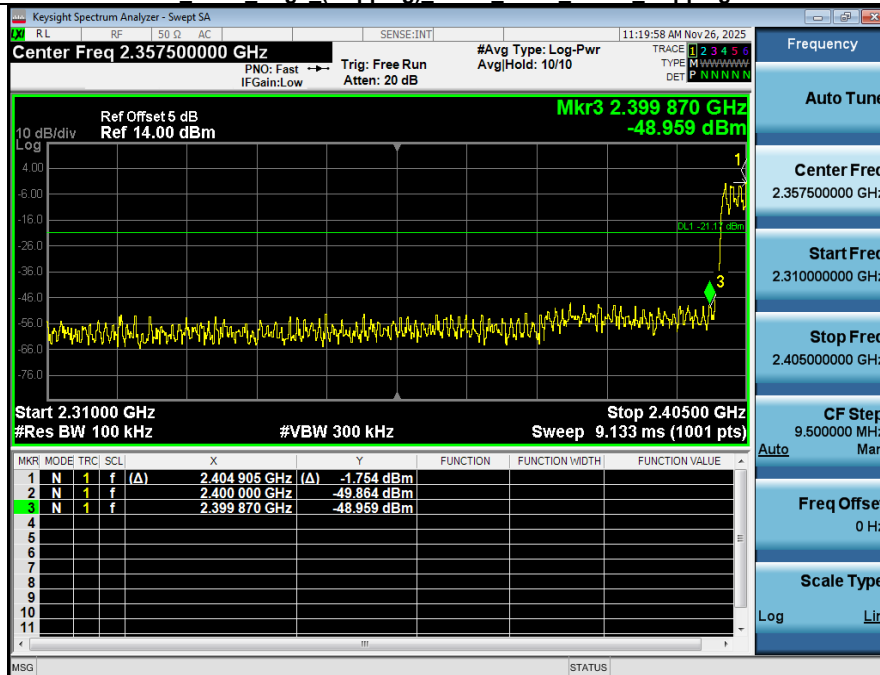
2 Bandedge NVNT ANT1 3-DH1 2402 00



1 Reference Level Hopping NVNT ANT1 3-DH1 Hopping



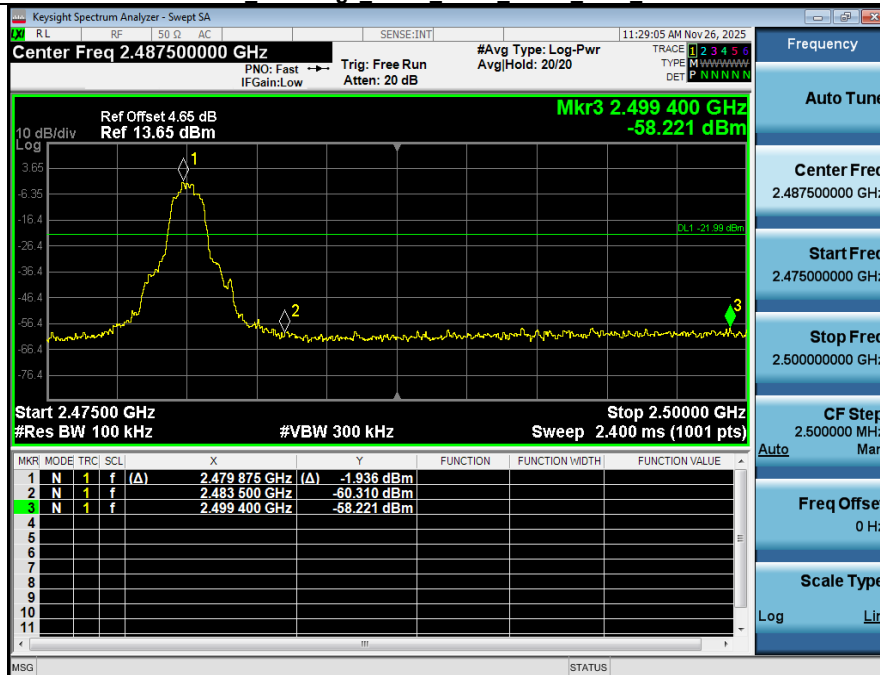
2 Band Edge (Hopping) NVNT ANT1 3-DH1 Hopping



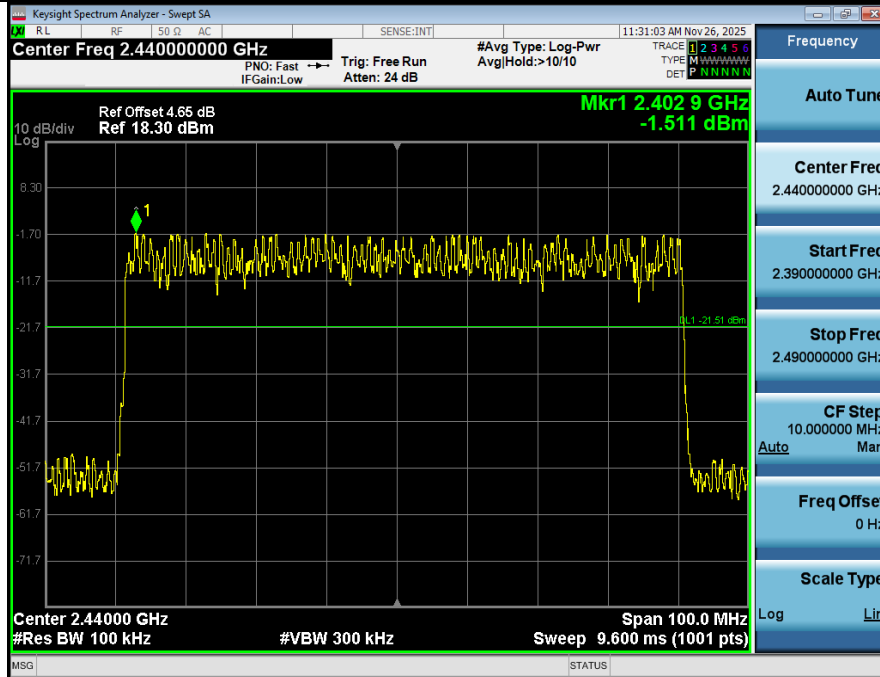
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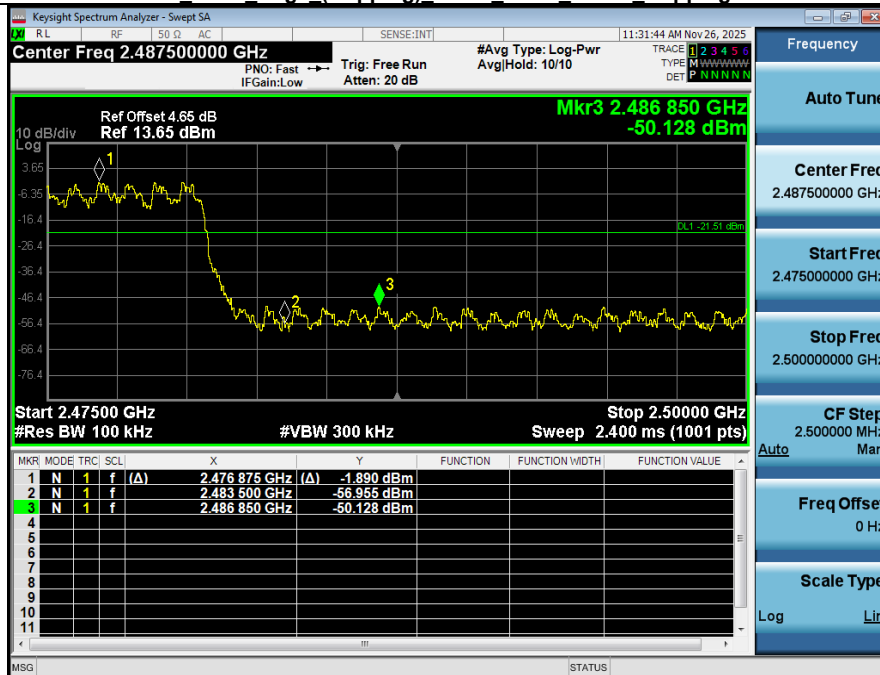
2 Bandedge NVNT ANT1 3-DH1 2480 00



1 Reference Level Hopping NVNT ANT1 3-DH1 Hopping

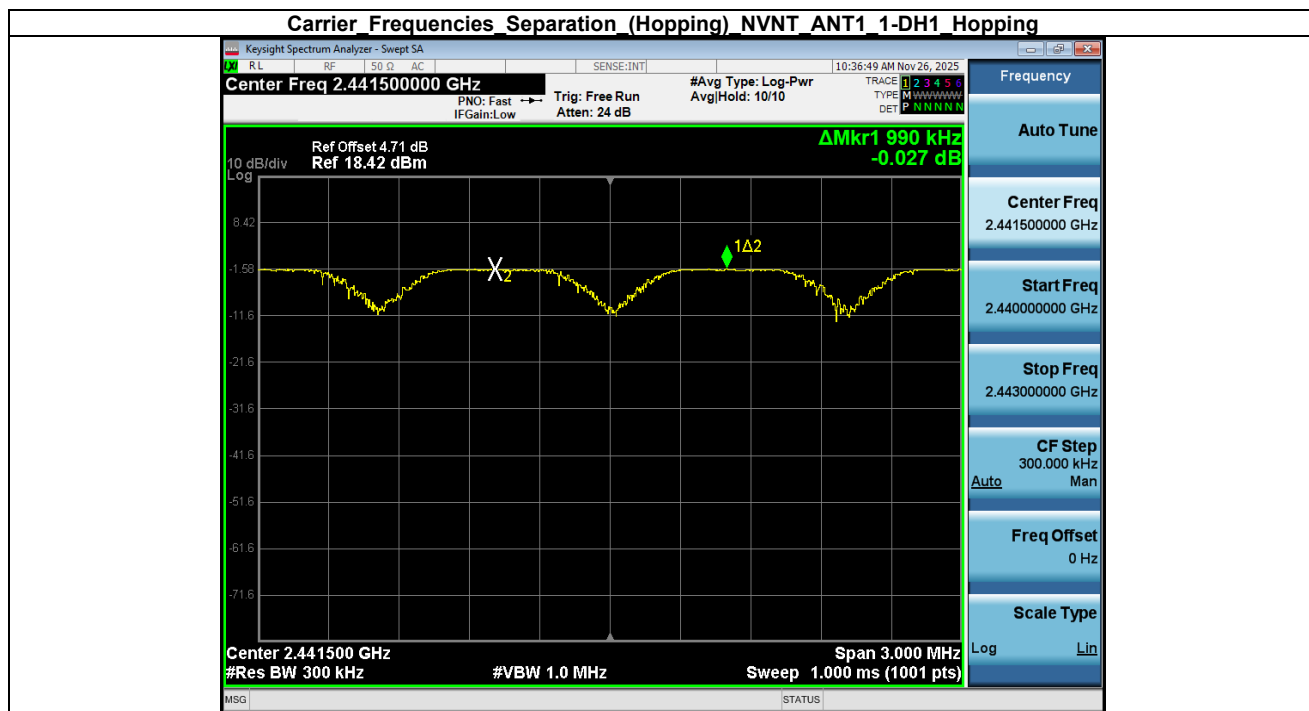
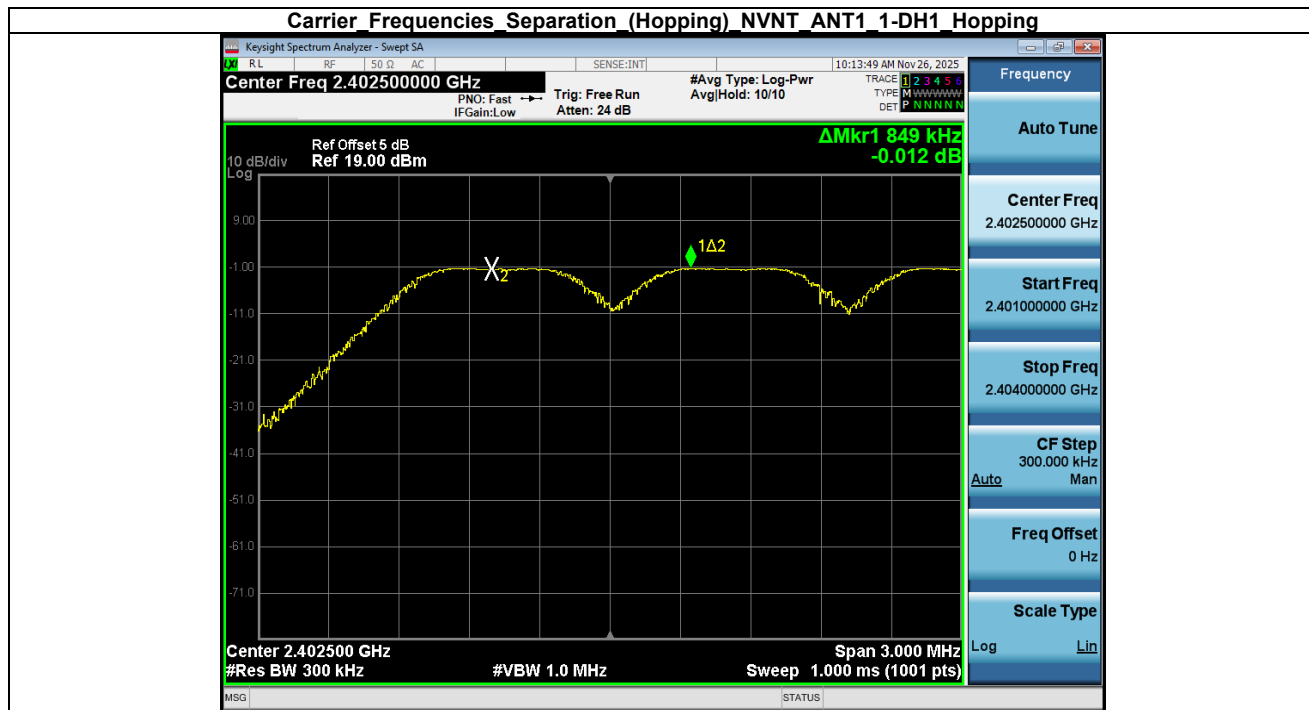


2 Band Edge (Hopping) NVNT ANT1 3-DH1 Hopping

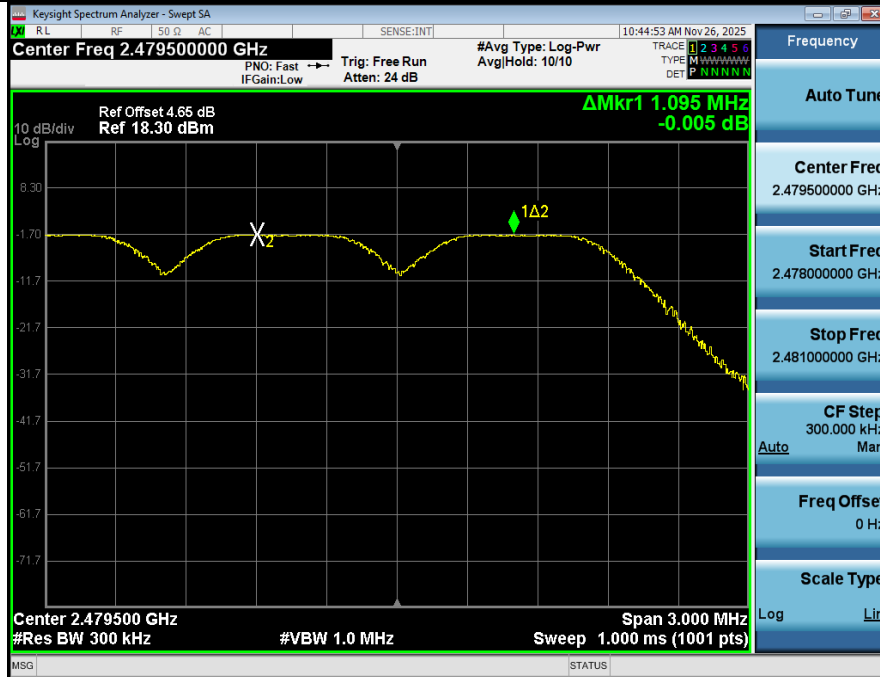


7. Carrier Frequencies Separation (Hopping)

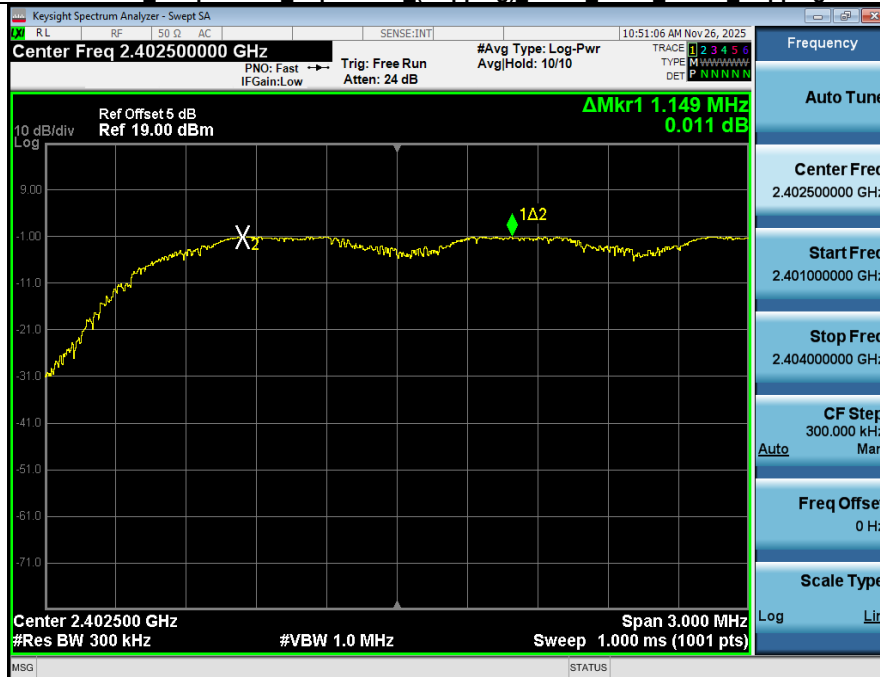
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2402.00	2401.996	2402.845	0.85	0.679	Pass
NVNT	ANT1	1-DH1	2441.00	2441.008	2441.998	0.99	0.686	Pass
NVNT	ANT1	1-DH1	2480.00	2478.903	2479.998	1.09	0.685	Pass
NVNT	ANT1	2-DH1	2402.00	2401.840	2402.989	1.15	0.863	Pass
NVNT	ANT1	2-DH1	2441.00	2441.089	2442.085	1.00	0.859	Pass
NVNT	ANT1	2-DH1	2480.00	2479.011	2479.998	0.99	0.857	Pass
NVNT	ANT1	3-DH1	2402.00	2401.846	2403.019	1.17	0.839	Pass
NVNT	ANT1	3-DH1	2441.00	2441.023	2442.016	0.99	0.836	Pass
NVNT	ANT1	3-DH1	2480.00	2479.005	2479.983	0.98	0.841	Pass



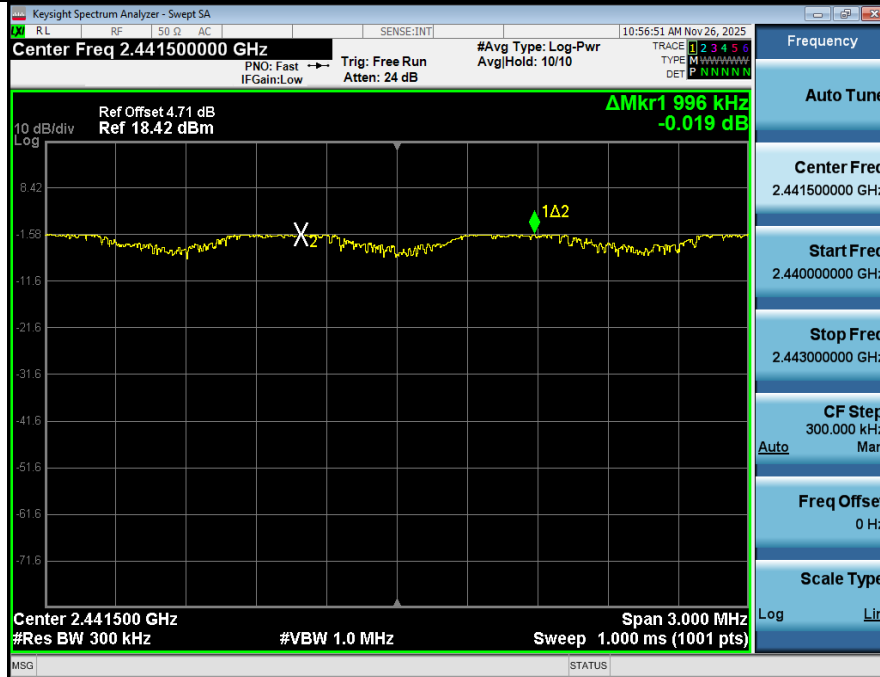
Carrier Frequencies Separation (Hopping) NVNT ANT1 1-DH1 Hopping



Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH1 Hopping



Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH1 Hopping



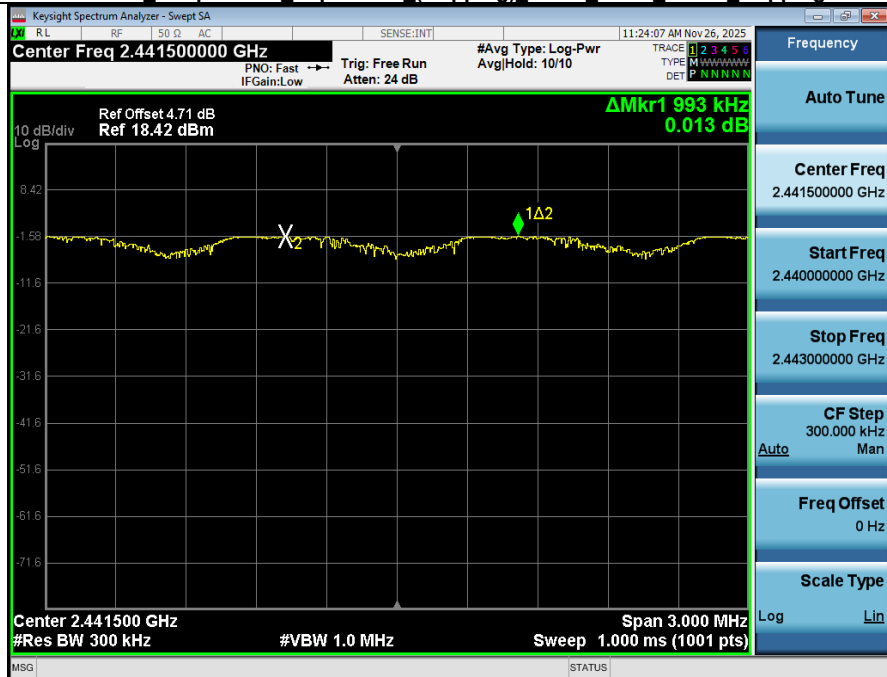
Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH1 Hopping



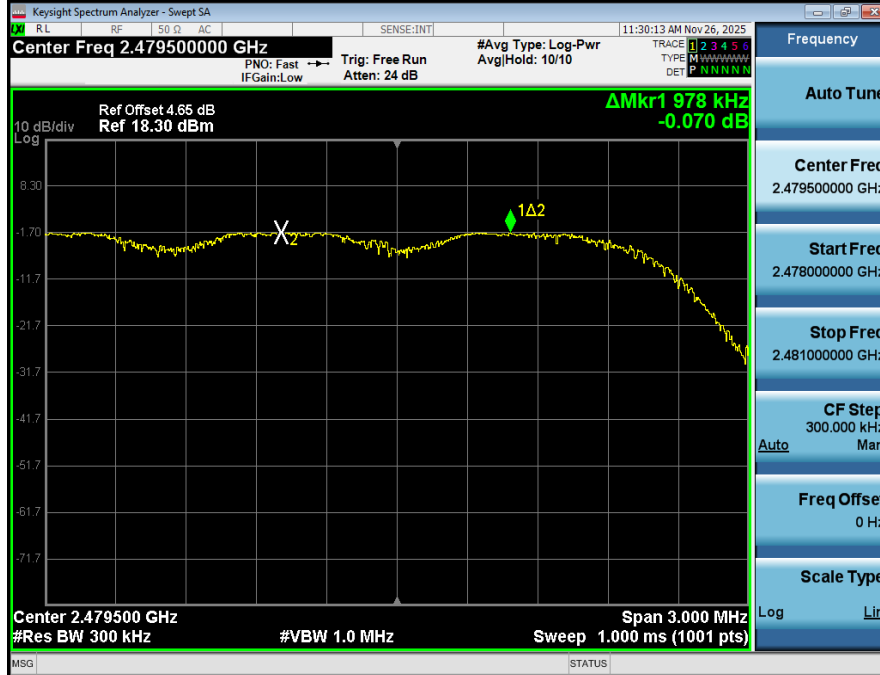
Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH1 Hopping



Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH1 Hopping

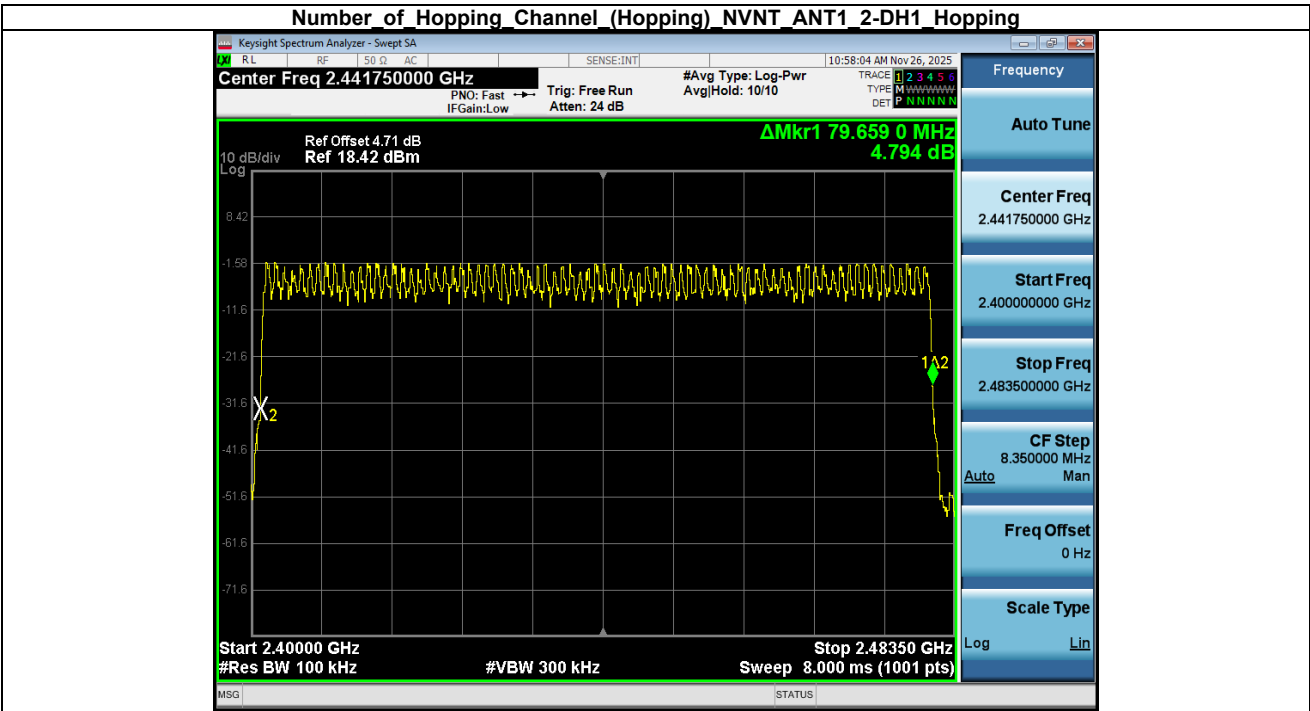
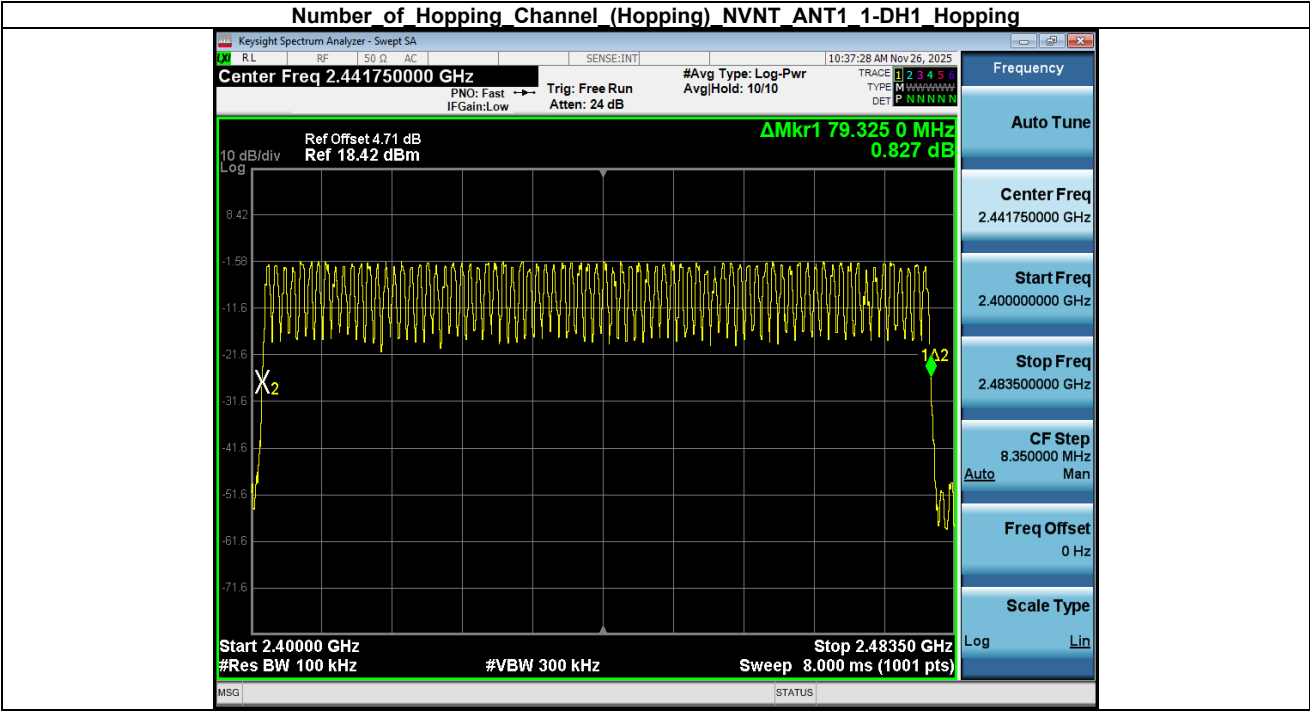


Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH1 Hopping

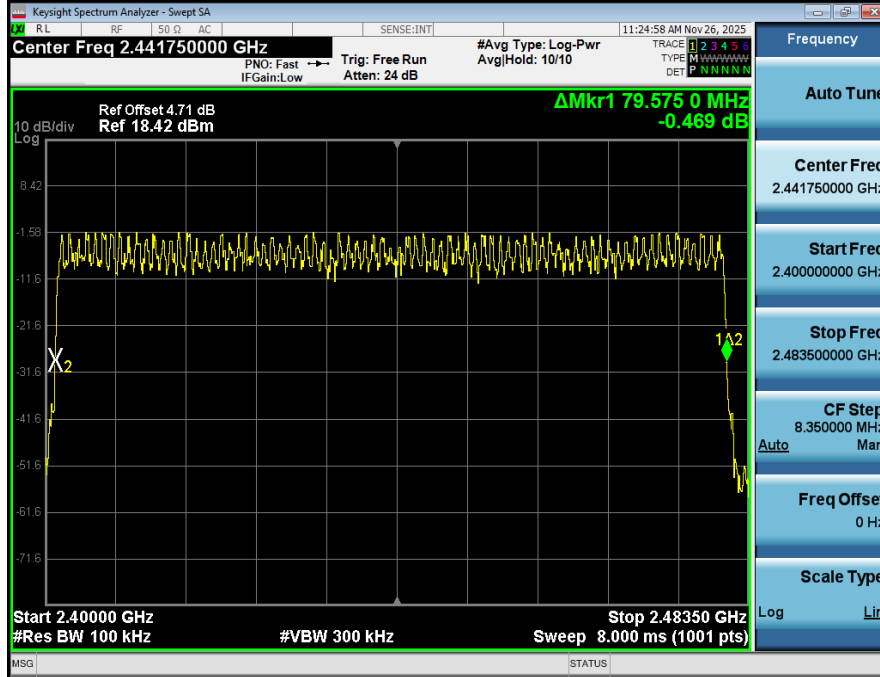


8. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

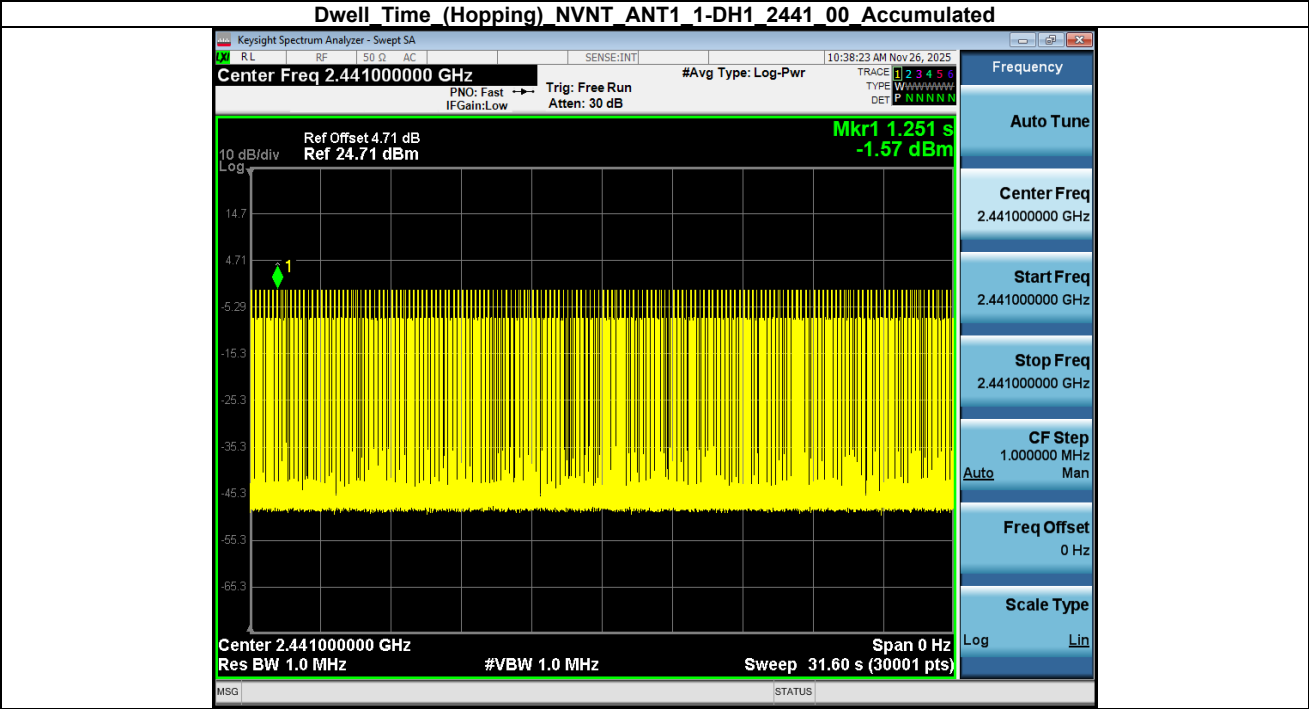
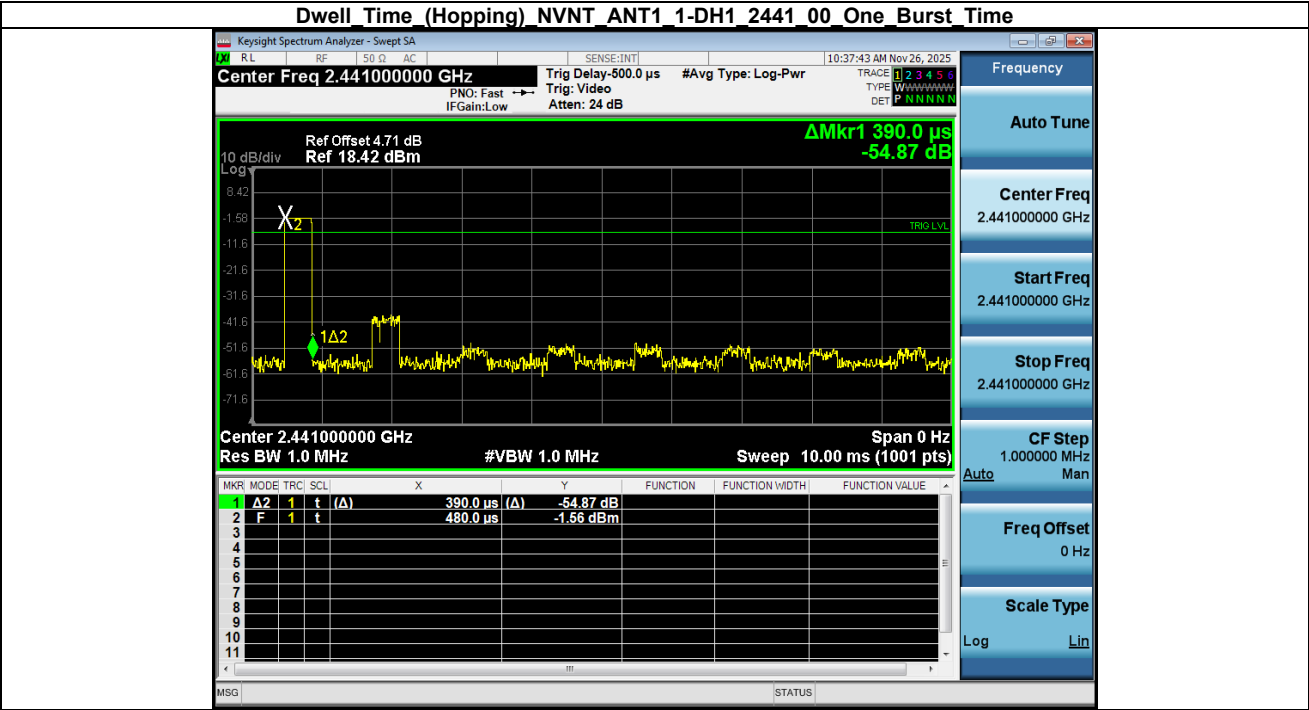


Number of Hopping Channel (Hopping) NVNT ANT1 3-DH1 Hopping

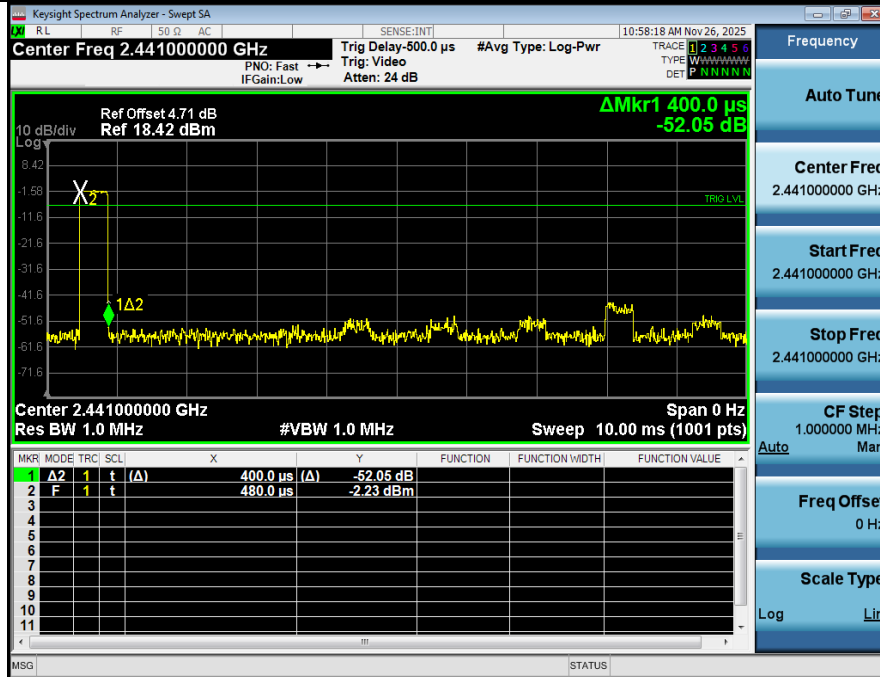


9. Dwell Time (Hopping)

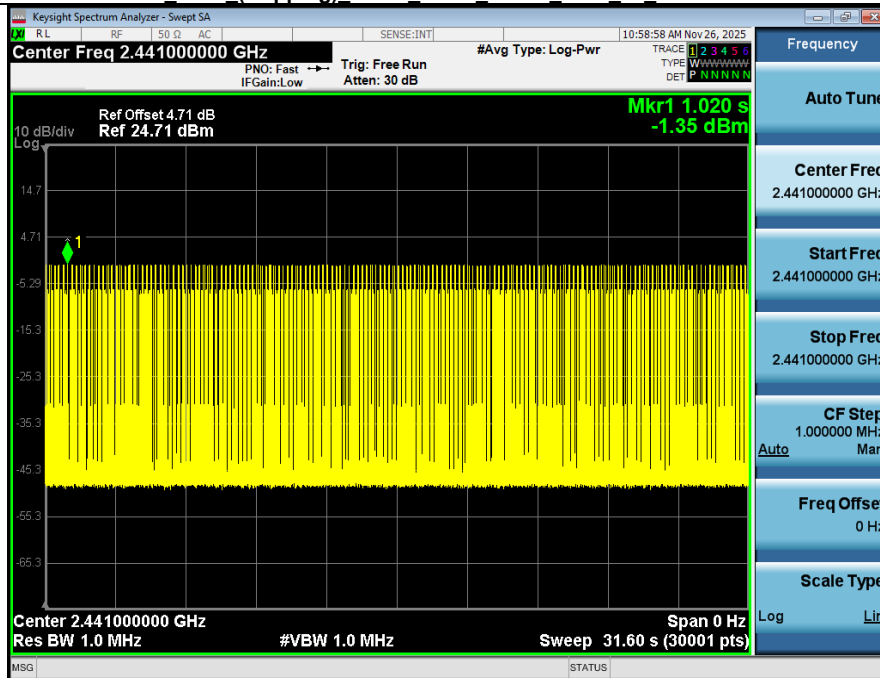
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.390	319.00	124.410	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.400	318.00	127.200	0.40	Pass
NVNT	ANT1	1-DH3	1.640	156.00	255.840	0.40	Pass
NVNT	ANT1	1-DH5	2.900	99.00	287.100	0.40	Pass
NVNT	ANT1	2-DH3	1.650	154.00	254.100	0.40	Pass
NVNT	ANT1	2-DH5	2.900	113.00	327.700	0.40	Pass
NVNT	ANT1	3-DH3	1.650	166.00	273.900	0.40	Pass
NVNT	ANT1	3-DH5	2.900	120.00	348.000	0.40	Pass



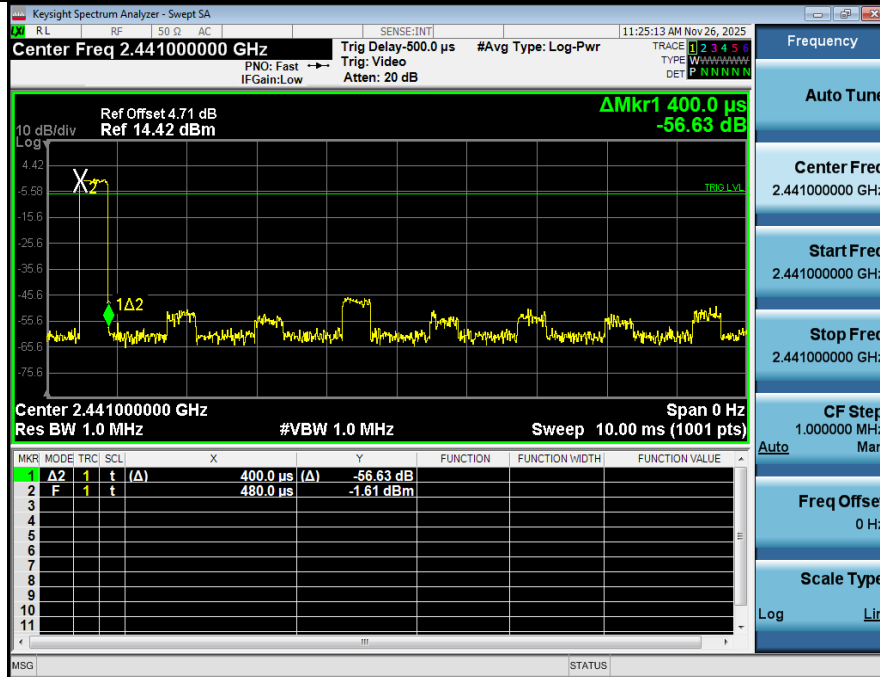
Dwell Time (Hopping) NVNT ANT1 2-DH1 2441 00 One Burst Time



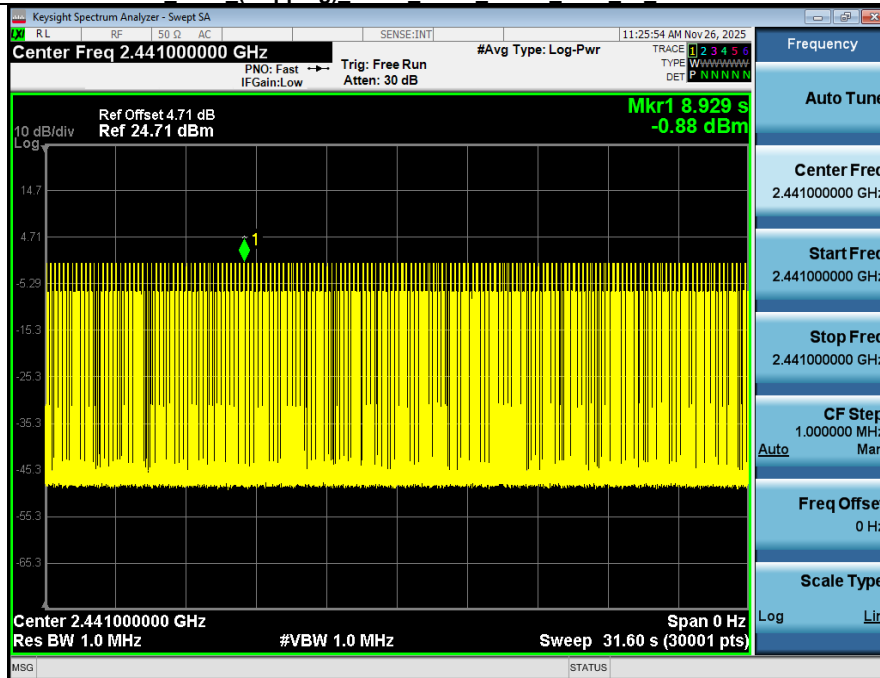
Dwell Time (Hopping) NVNT ANT1 2-DH1 2441 00 Accumulated



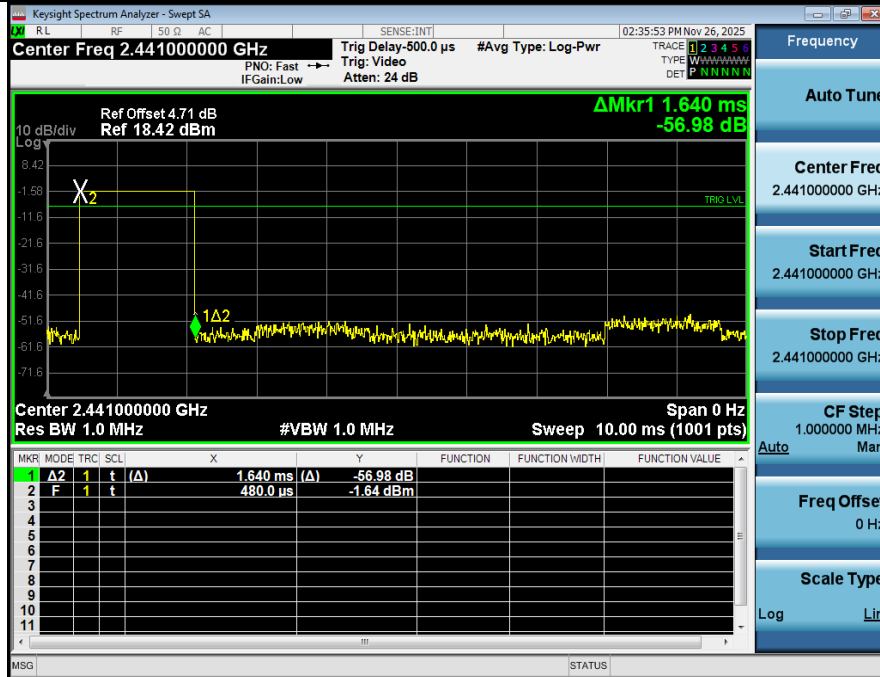
Dwell Time (Hopping) NVNT ANT1 3-DH1 2441 00 One Burst Time



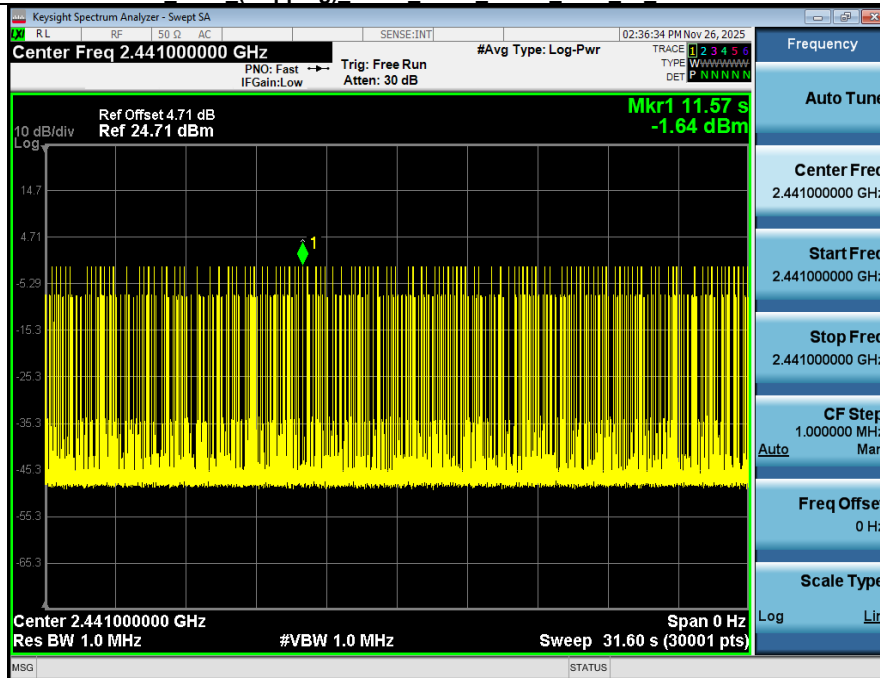
Dwell Time (Hopping) NVNT ANT1 3-DH1 2441 00 Accumulated



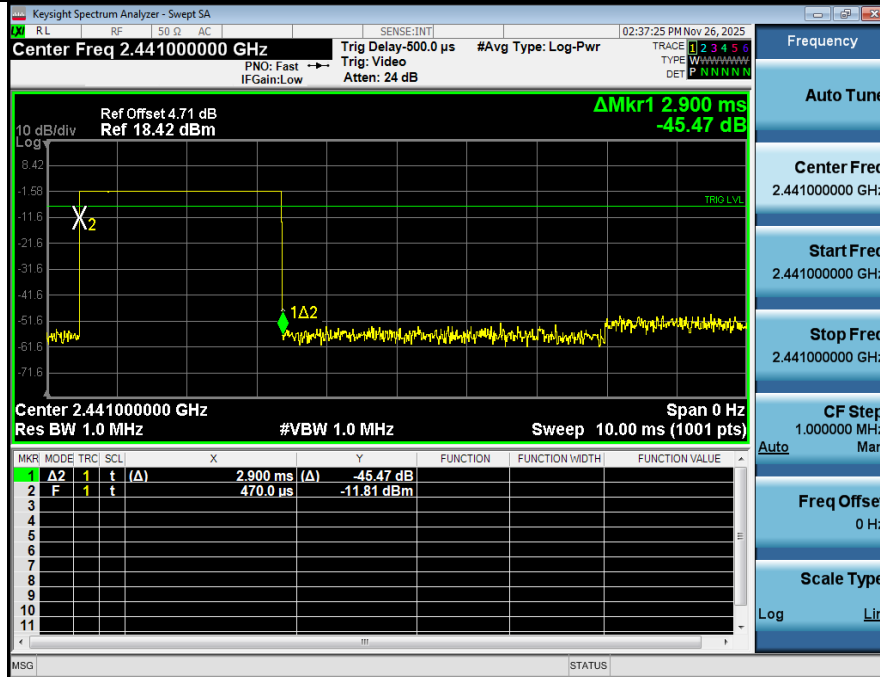
Dwell Time (Hopping) NVNT ANT1 1-DH3 2441 00 One Burst Time



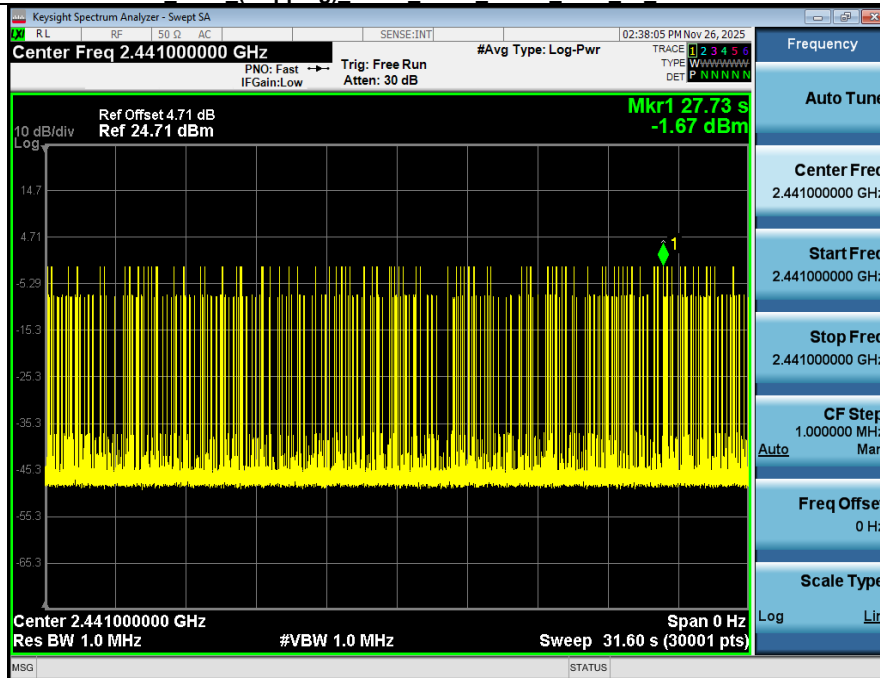
Dwell Time (Hopping) NVNT ANT1 1-DH3 2441 00 Accumulated



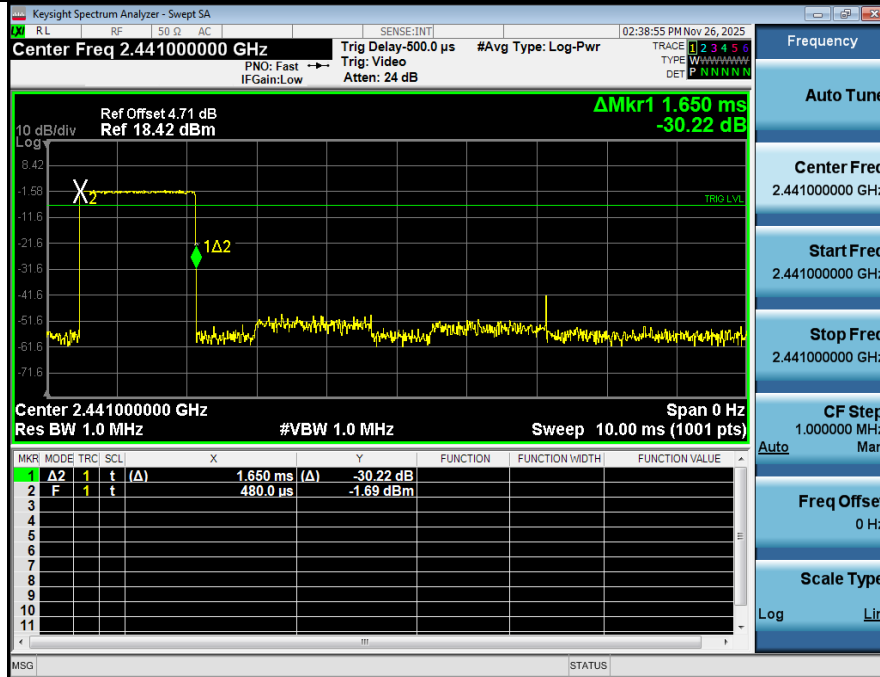
Dwell Time (Hopping) NVNT ANT1 1-DH5 2441 00 One Burst Time



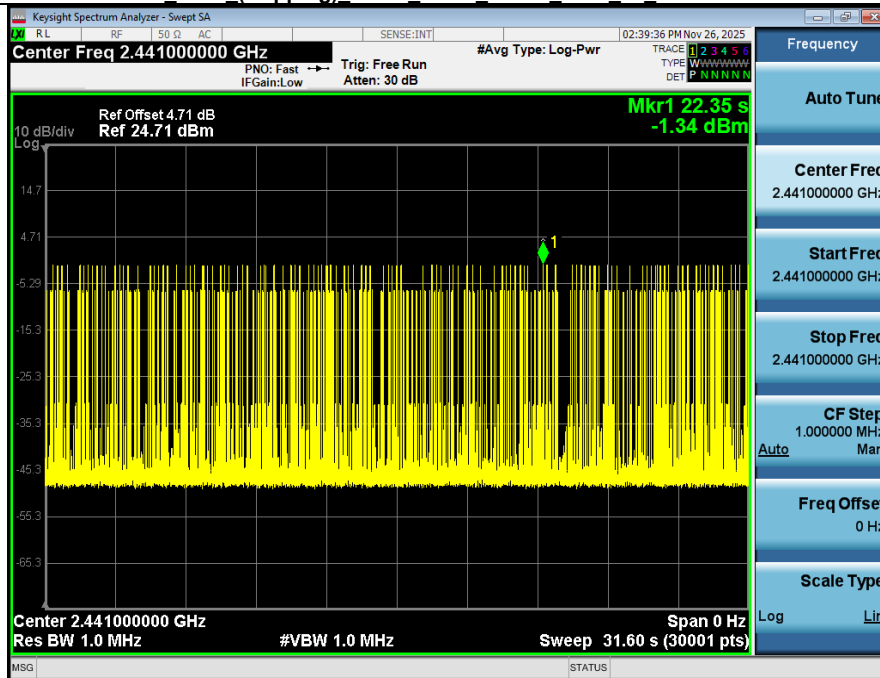
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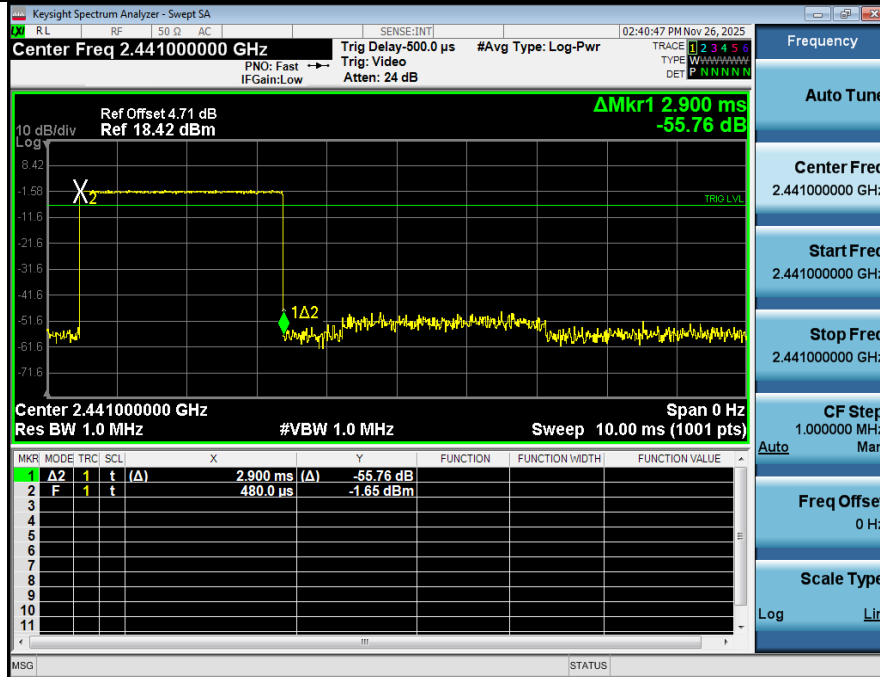
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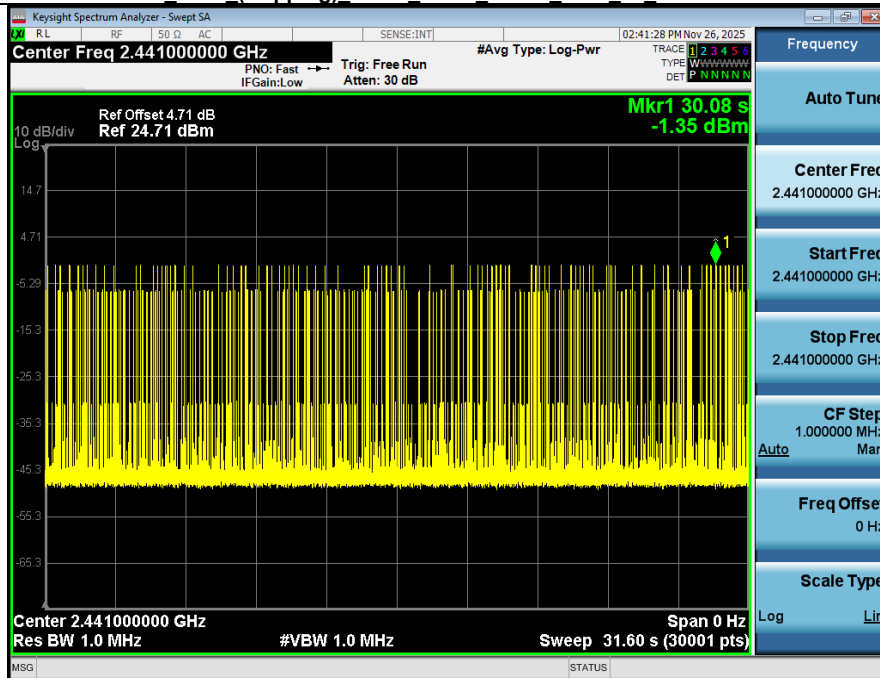
Dwell Time (Hopping) NVNT ANT1 2-DH3 2441 00 Accumulated



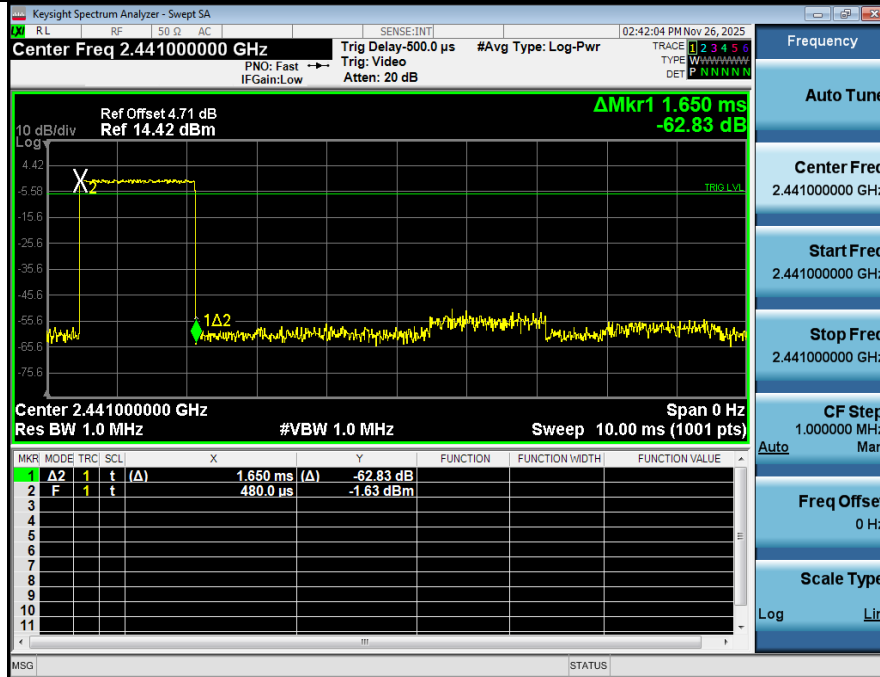
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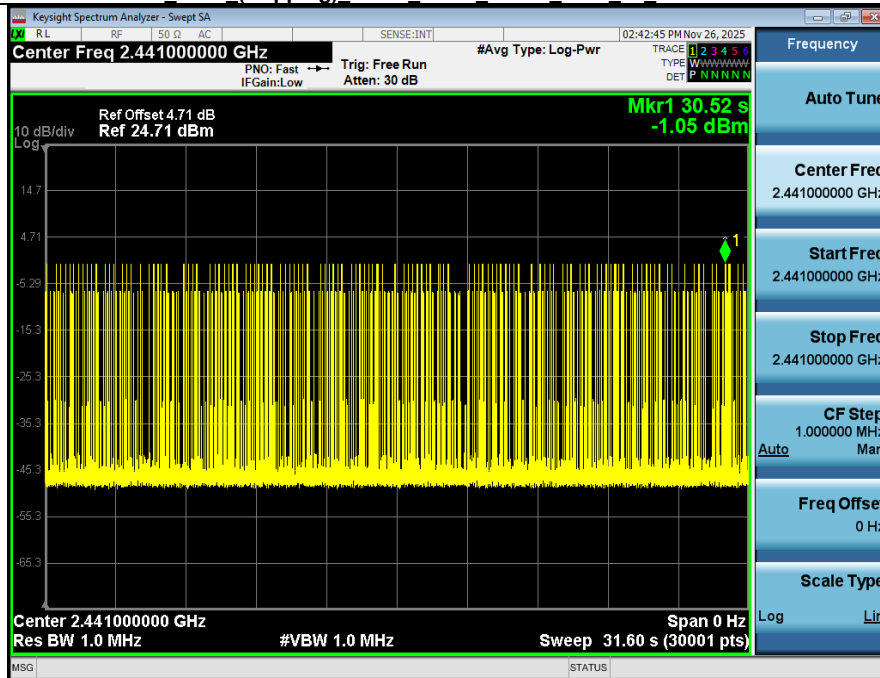
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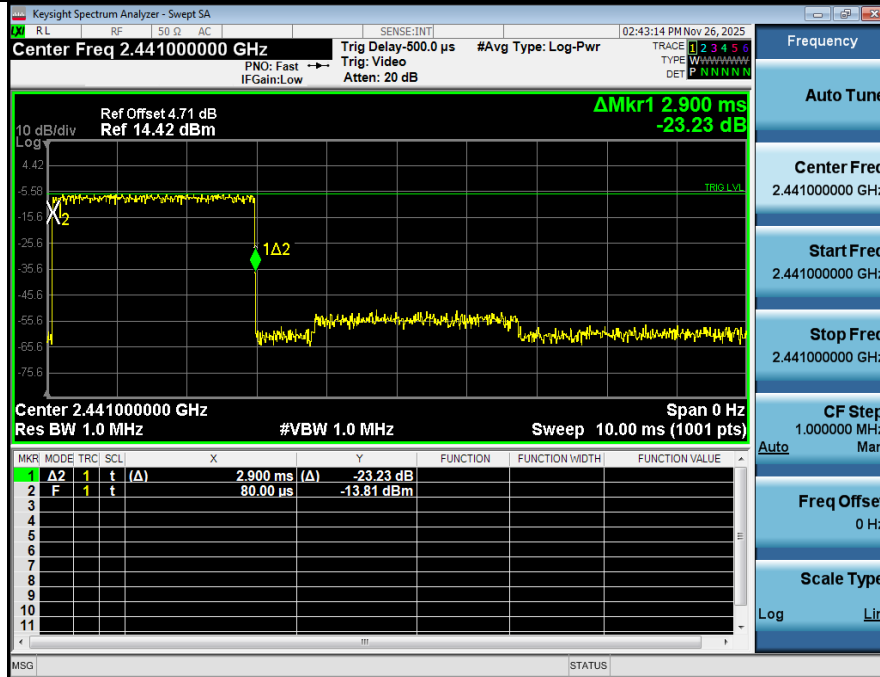
Dwell Time (Hopping) NVNT ANT1 3-DH3 2441 00 One Burst Time



Dwell Time (Hopping) NVNT ANT1 3-DH3 2441 00 Accumulated



Dwell Time (Hopping) NVNT ANT1 3-DH5 2441 00 One Burst Time



Dwell Time (Hopping) NVNT ANT1 3-DH5 2441 00 Accumulated

