

RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

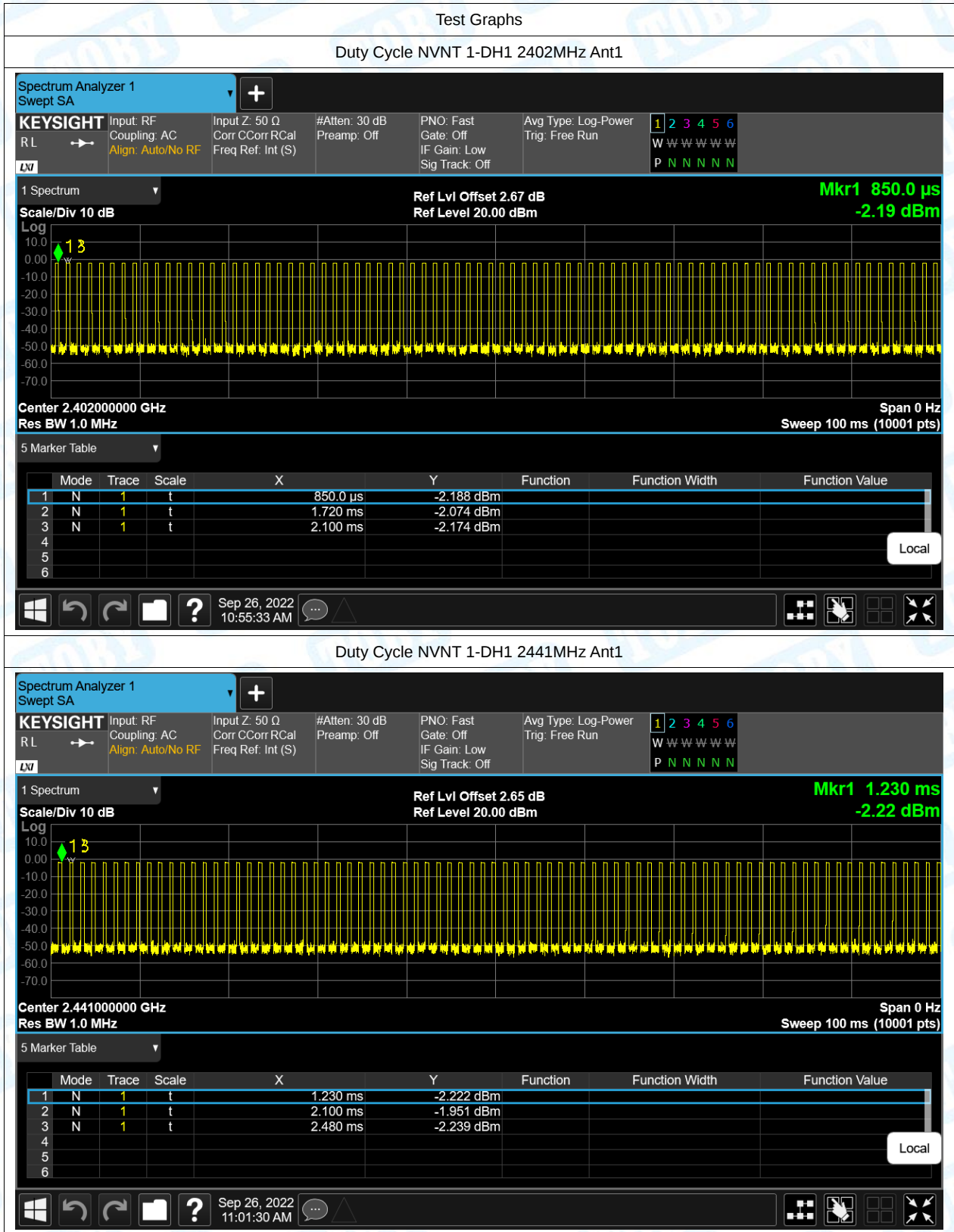
General Description of EUT	
Product Name:	Wireless Headphone
Test Model:	Runar RNR1
Sample ID:	202209-0164-2-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0164-3.	

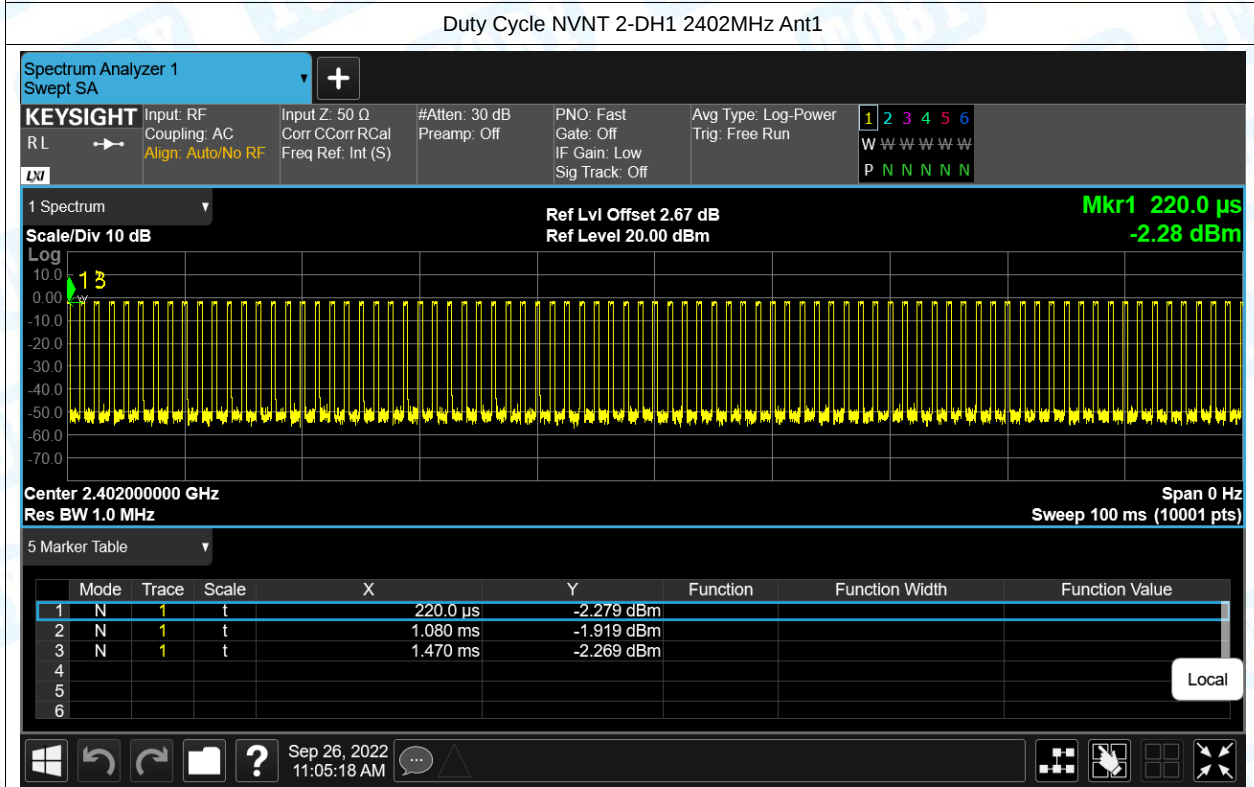
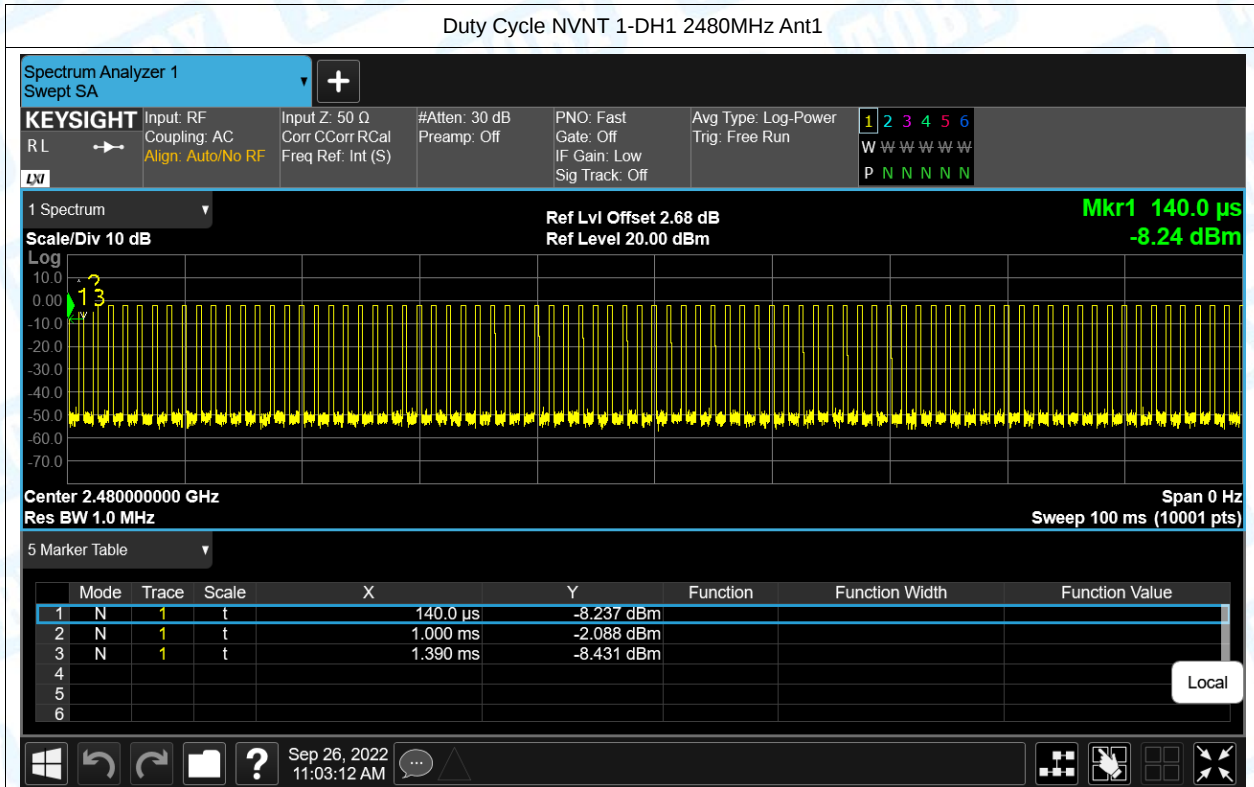
Contents

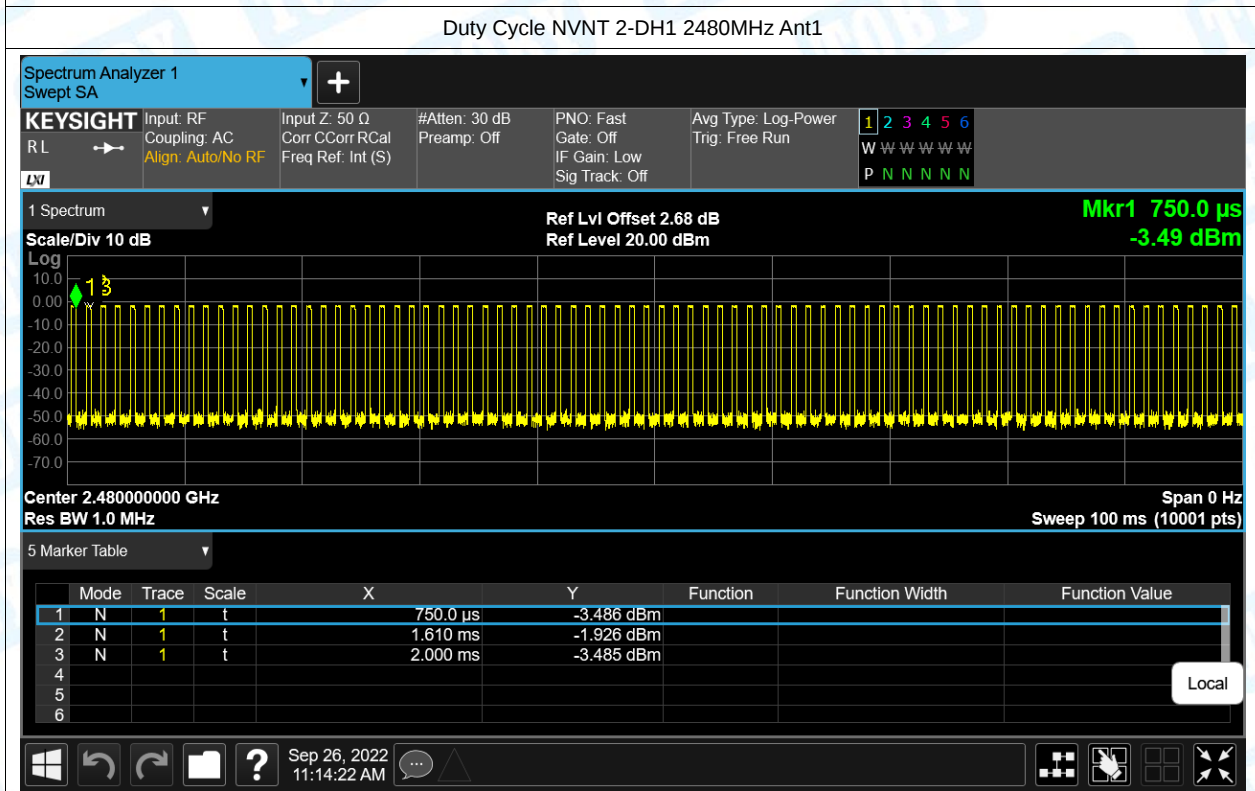
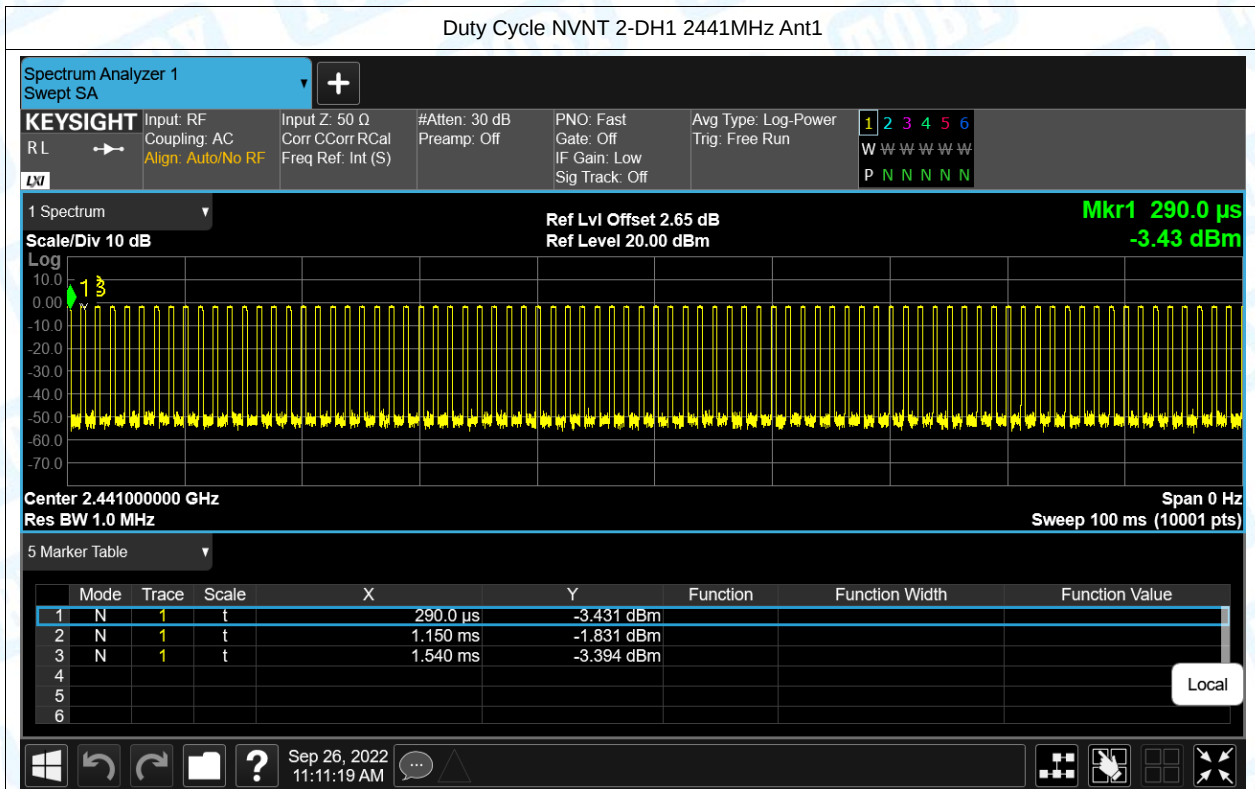
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1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56





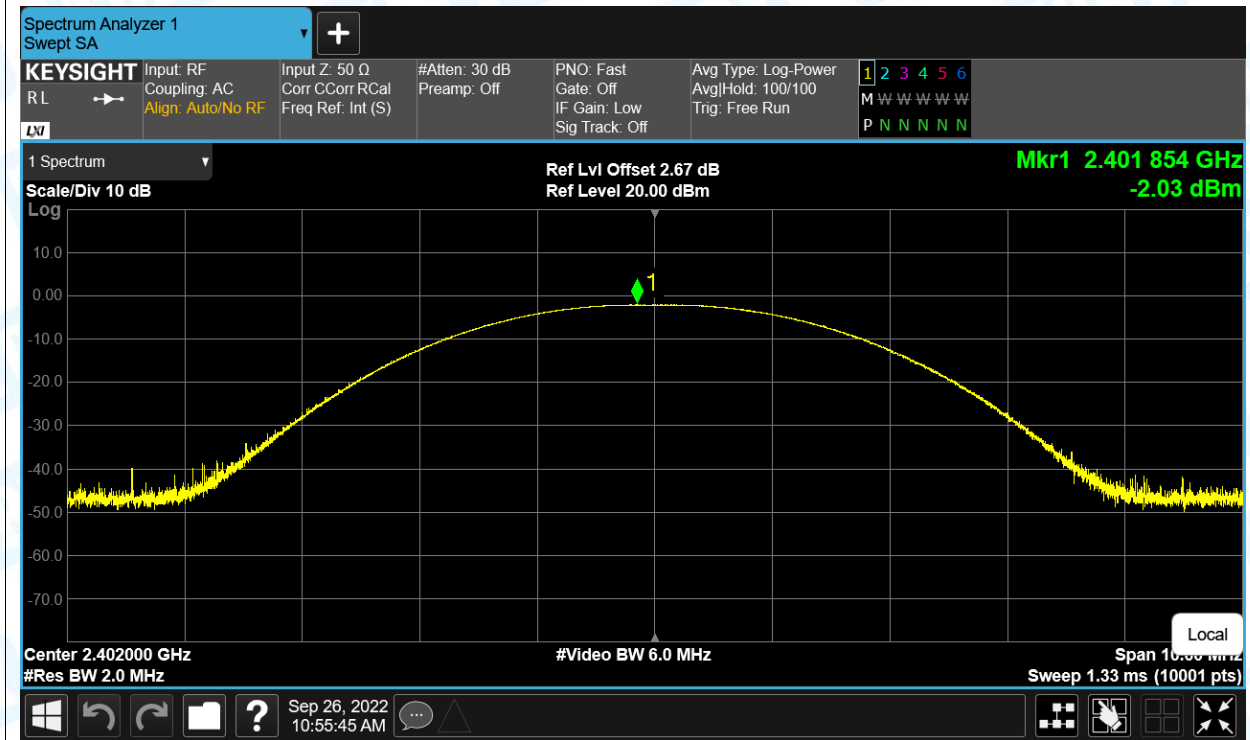


2. Maximum Conducted Output Power

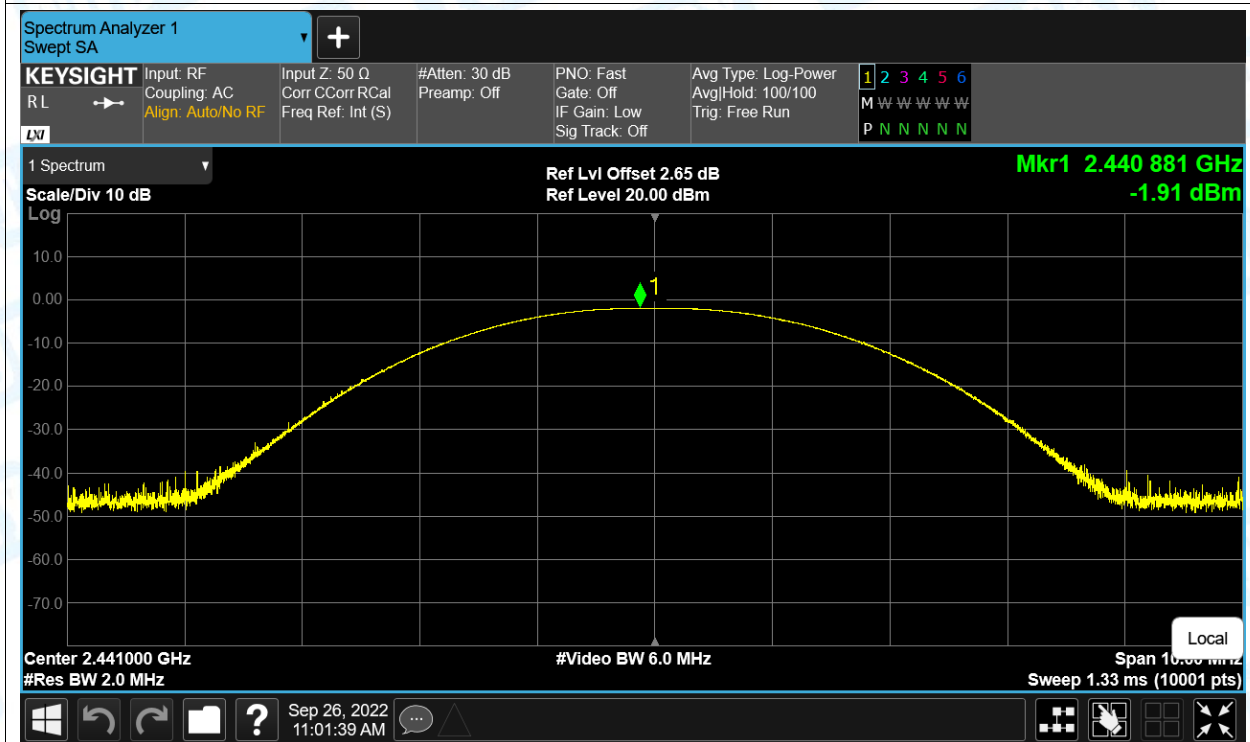
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-2.027	21	Pass
NVNT	1-DH1	2441	Ant1	-1.905	21	Pass
NVNT	1-DH1	2480	Ant1	-1.97	21	Pass
NVNT	2-DH1	2402	Ant1	-1.102	21	Pass
NVNT	2-DH1	2441	Ant1	-0.976	21	Pass
NVNT	2-DH1	2480	Ant1	-1.127	21	Pass

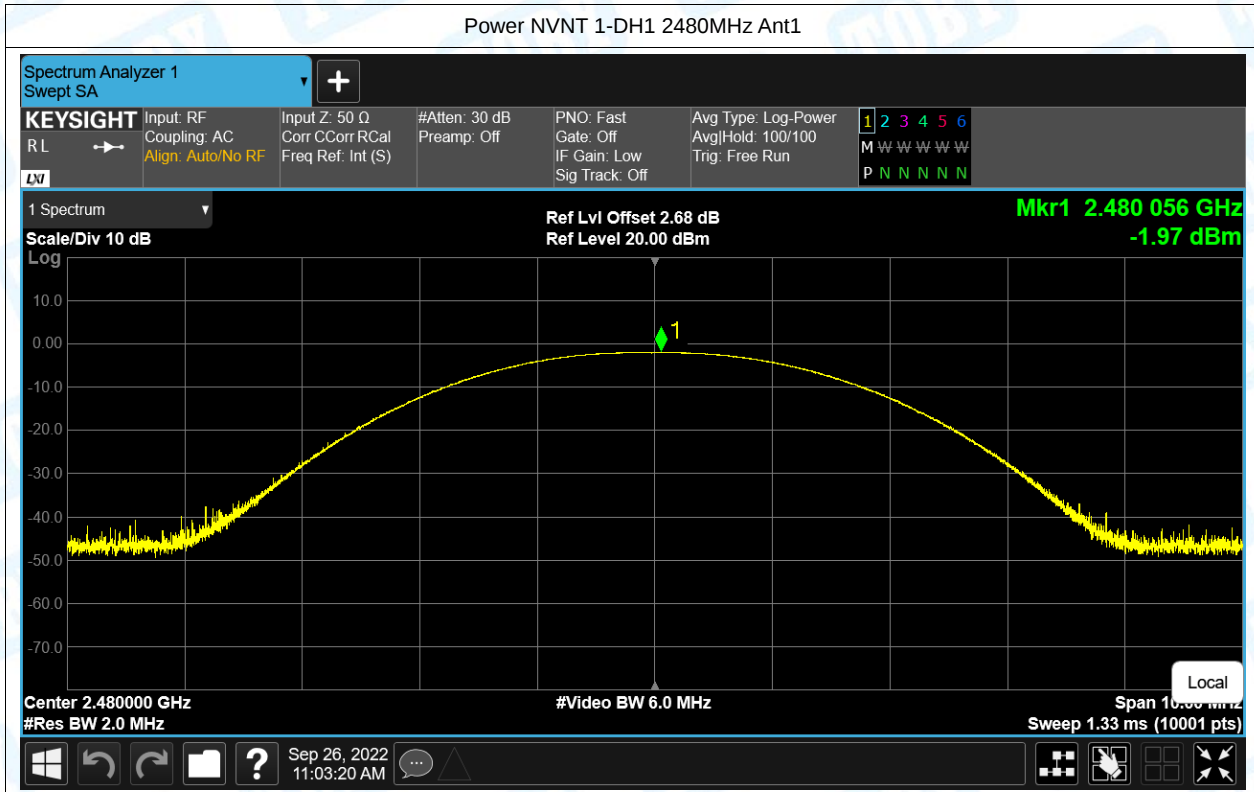
Test Graphs

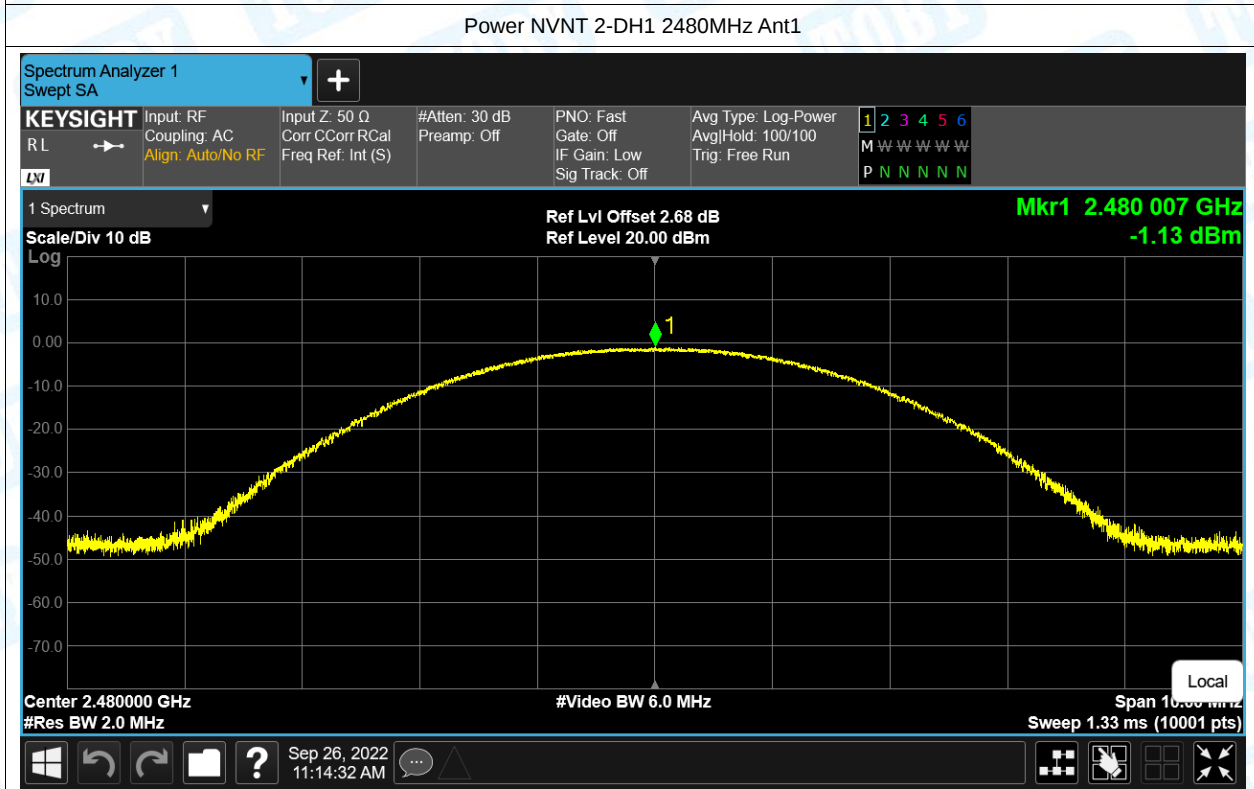
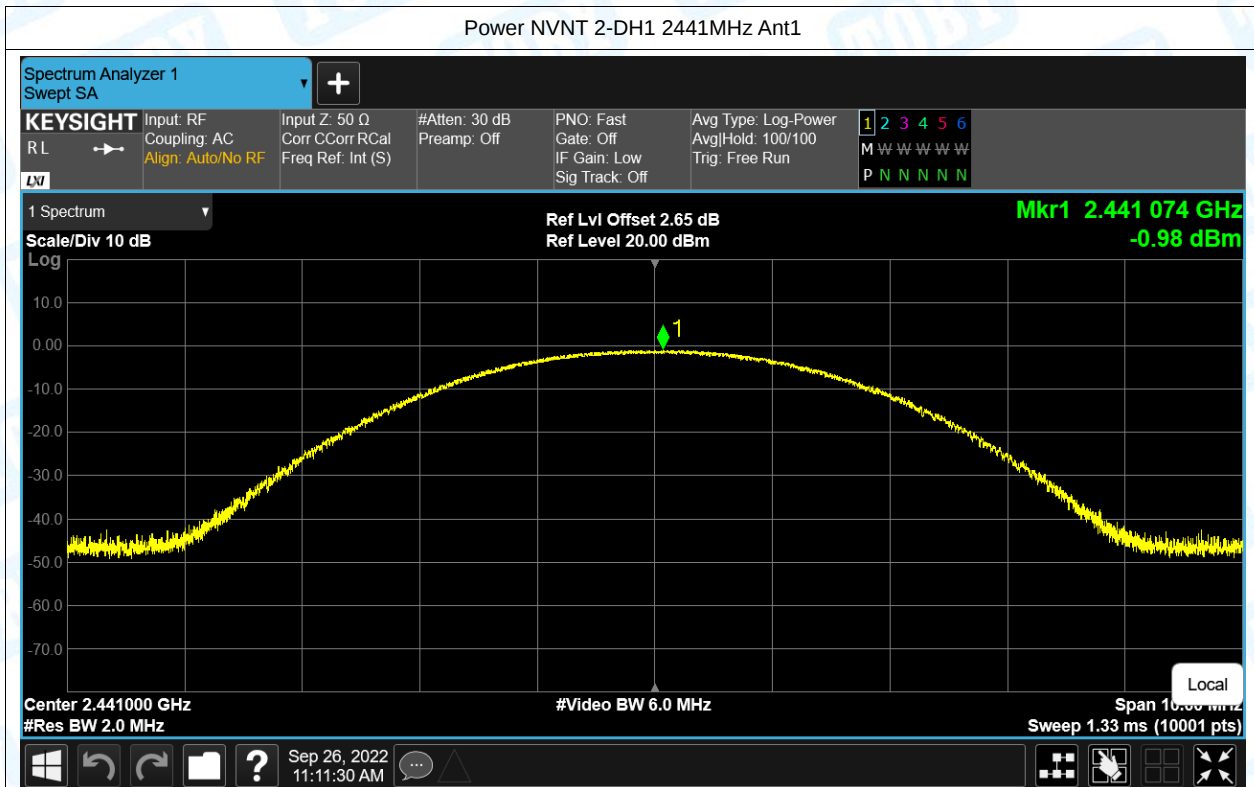
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1







3. -20dB Bandwidth

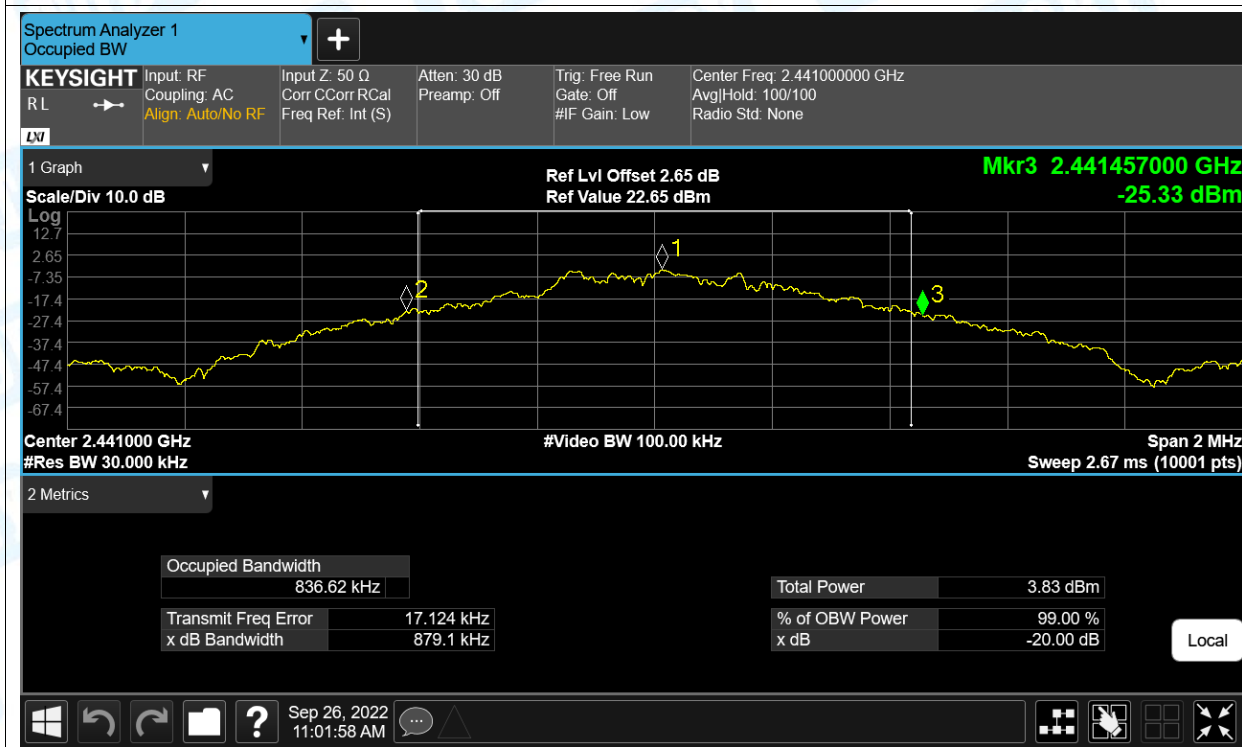
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	2/3 *20dB BW (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	0.587	Pass
NVNT	1-DH1	2441	Ant1	0.88	0.587	Pass
NVNT	1-DH1	2480	Ant1	0.86	0.573	Pass
NVNT	2-DH1	2402	Ant1	1.25	0.833	Pass
NVNT	2-DH1	2441	Ant1	1.22	0.813	Pass
NVNT	2-DH1	2480	Ant1	1.21	0.806	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



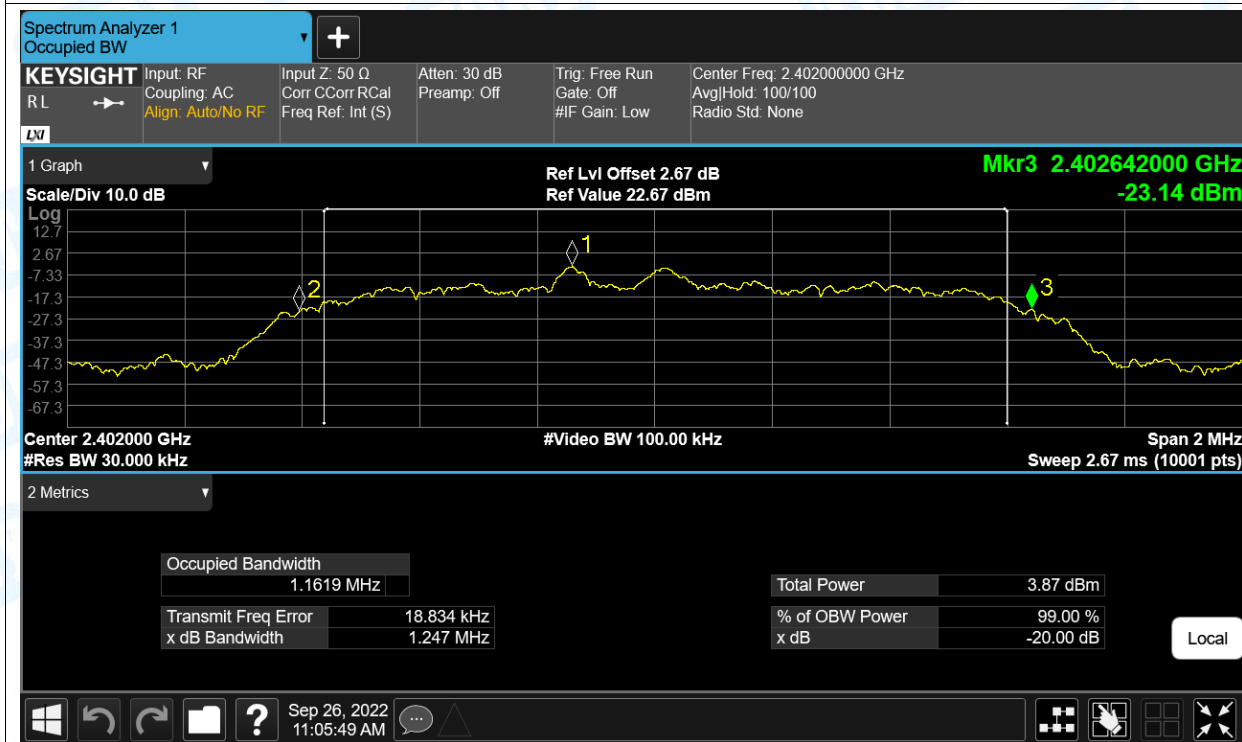
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



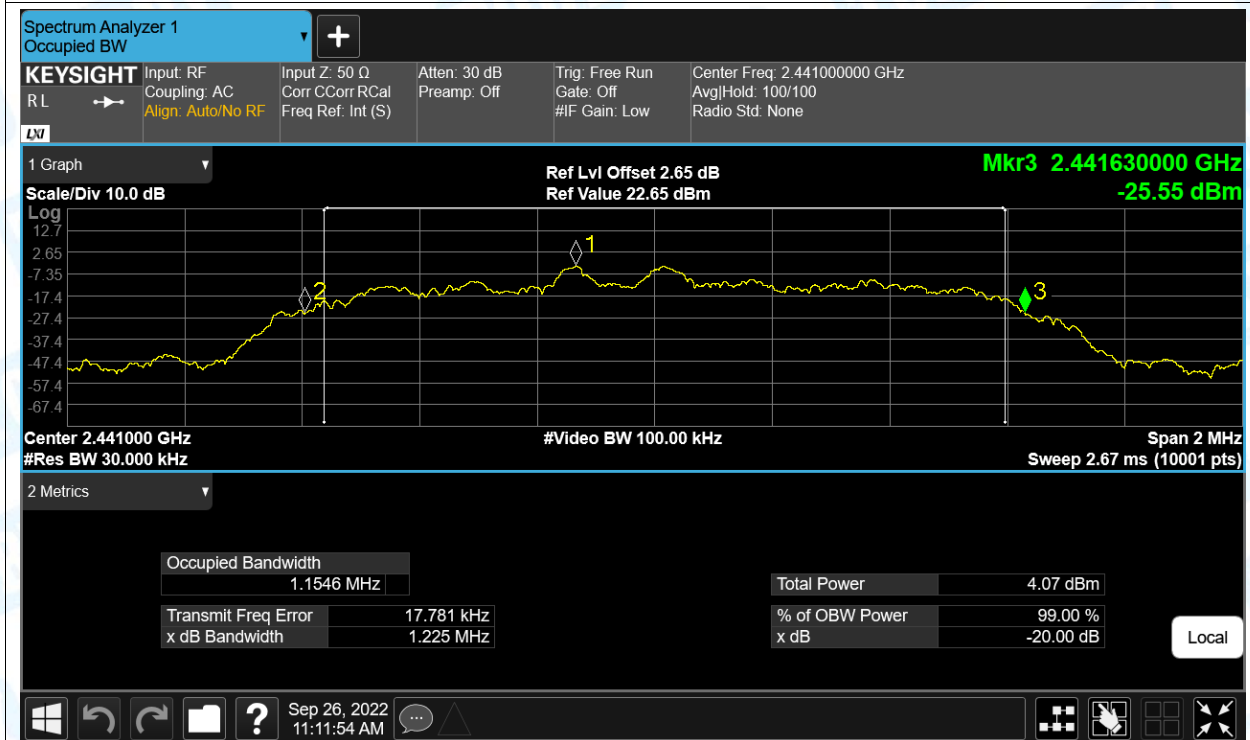
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



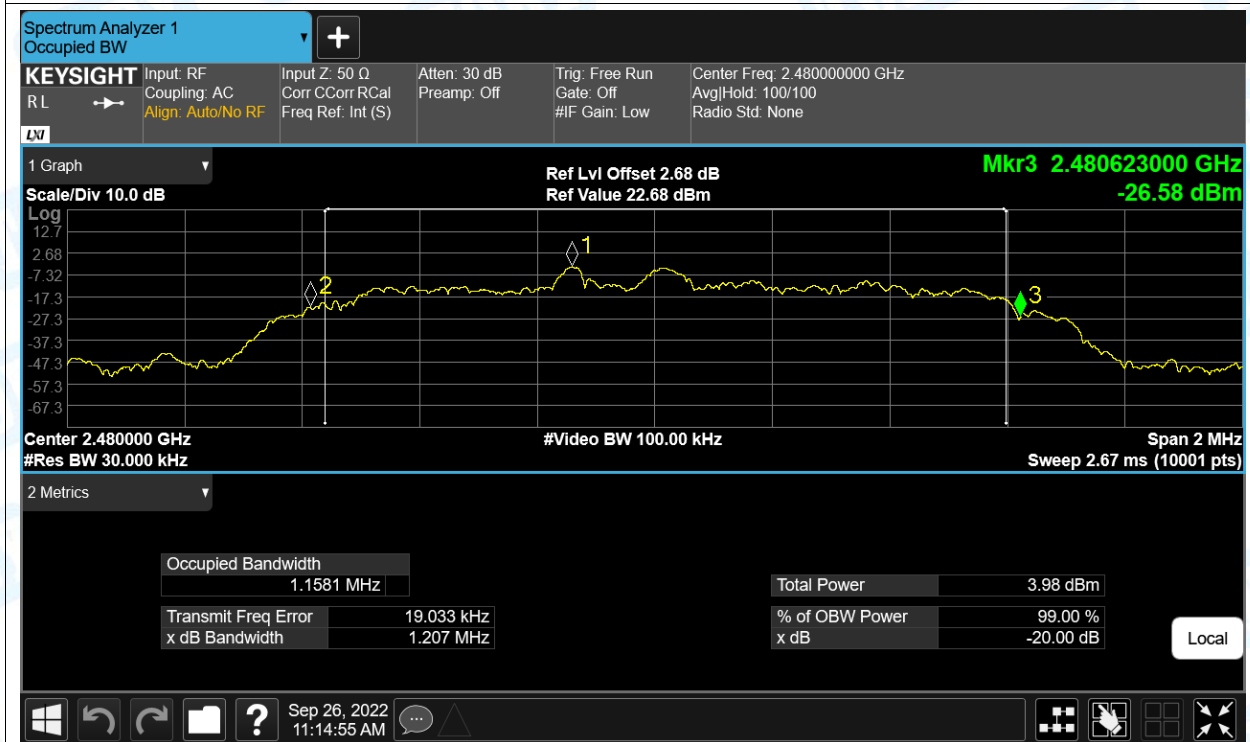
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

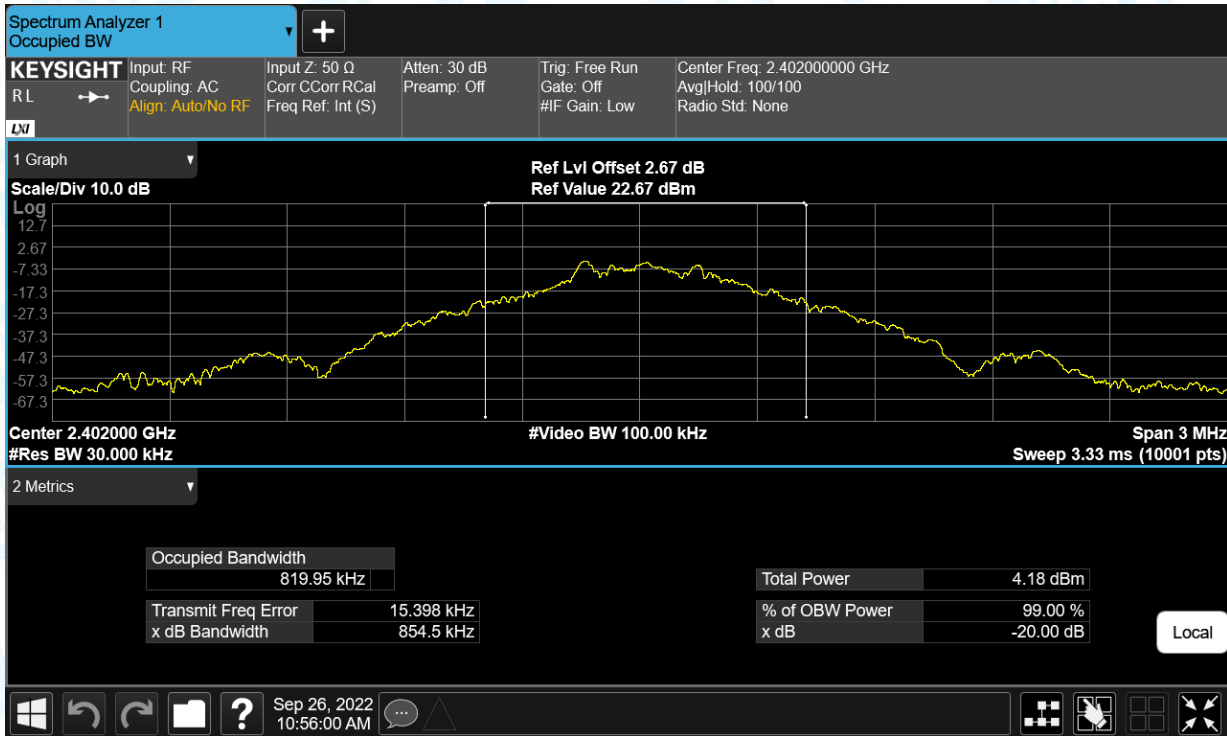


4. Occupied Channel Bandwidth

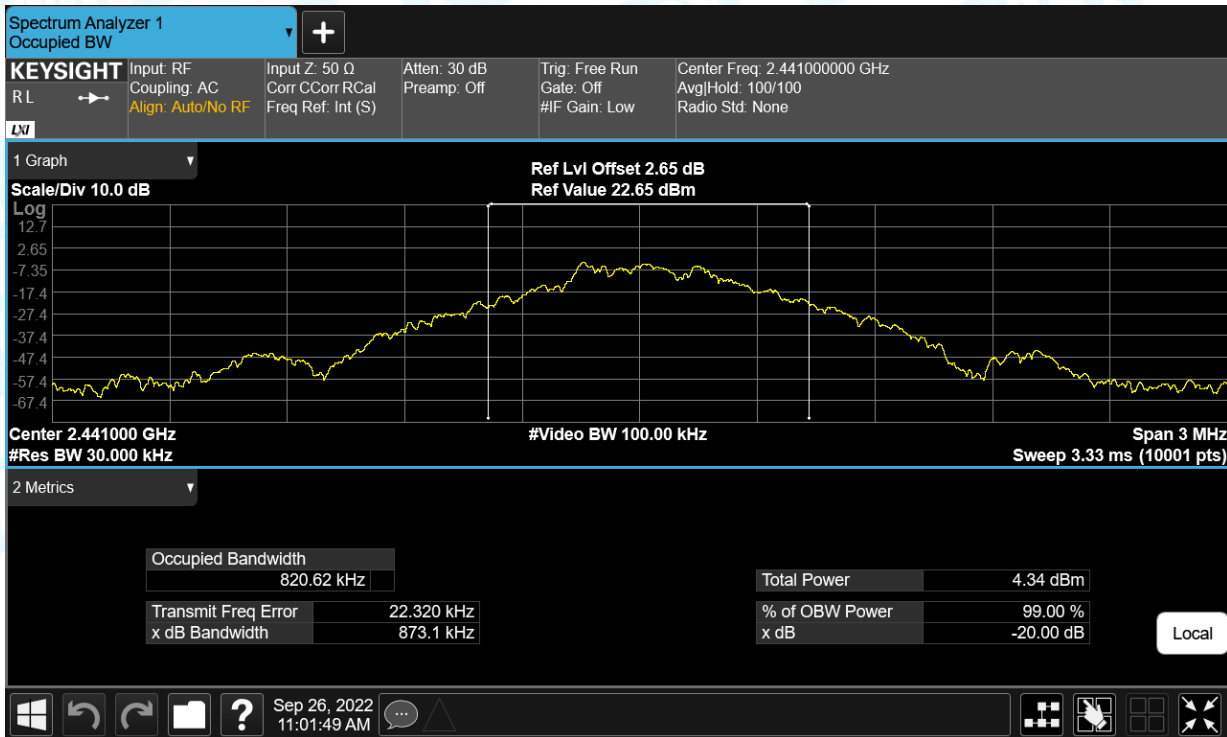
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.82
NVNT	1-DH1	2441	Ant1	0.821
NVNT	1-DH1	2480	Ant1	0.813
NVNT	2-DH1	2402	Ant1	1.17
NVNT	2-DH1	2441	Ant1	1.172
NVNT	2-DH1	2480	Ant1	1.166

Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1



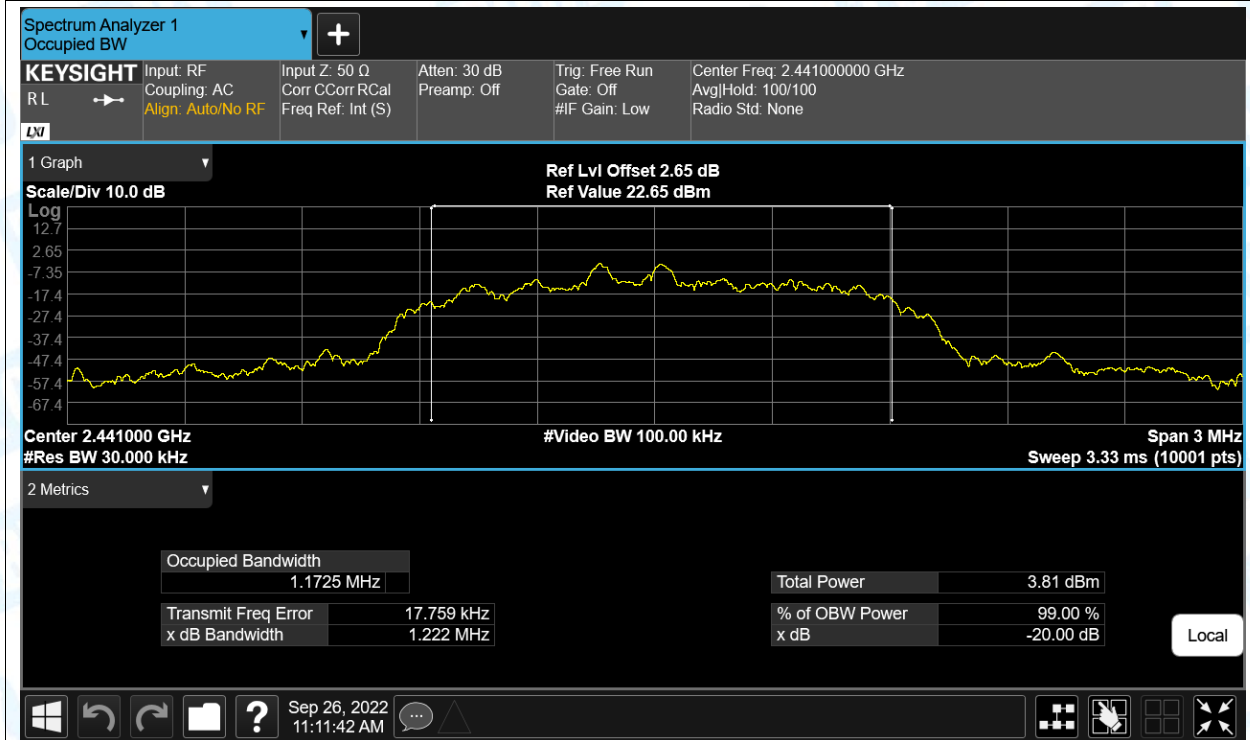
OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1

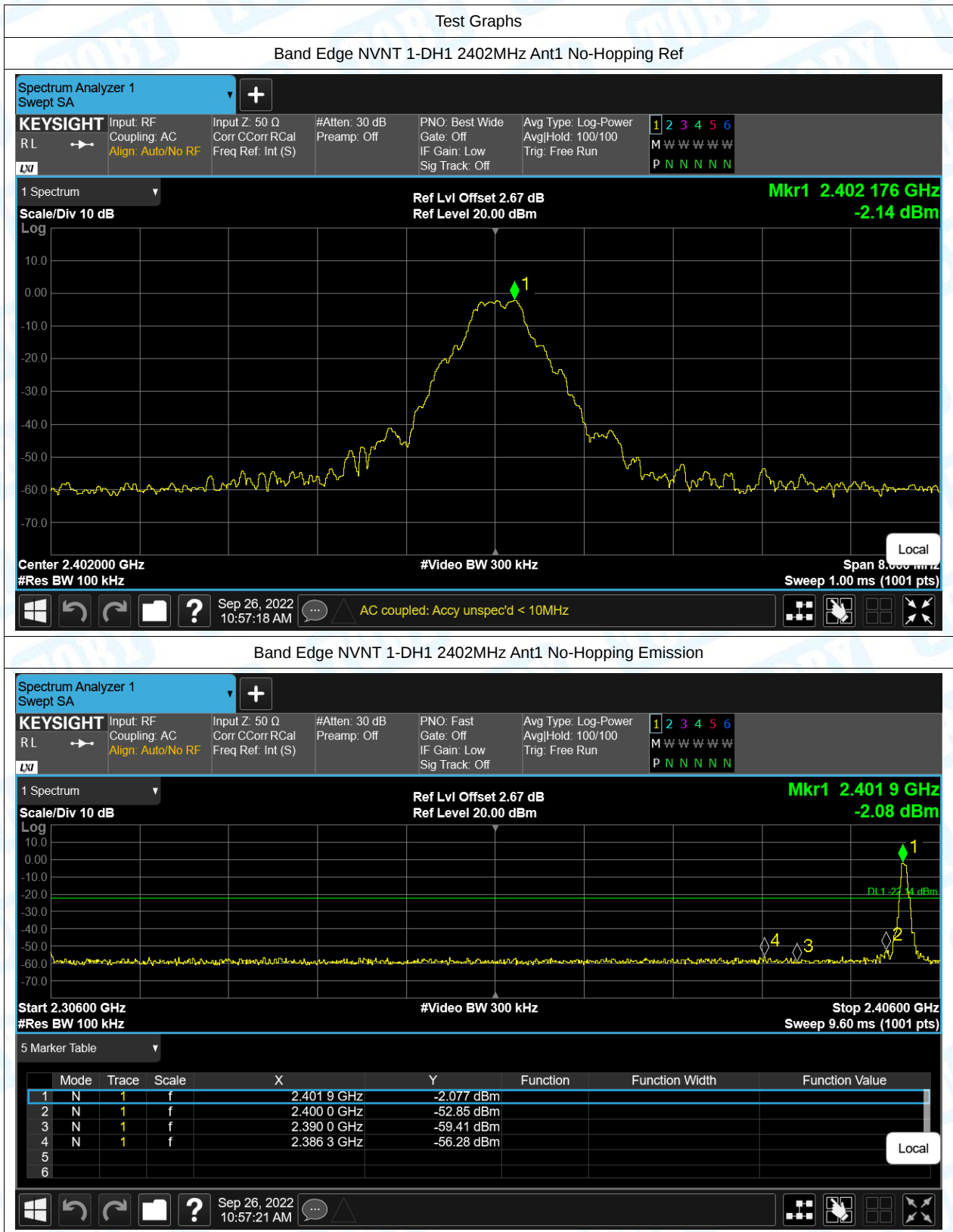


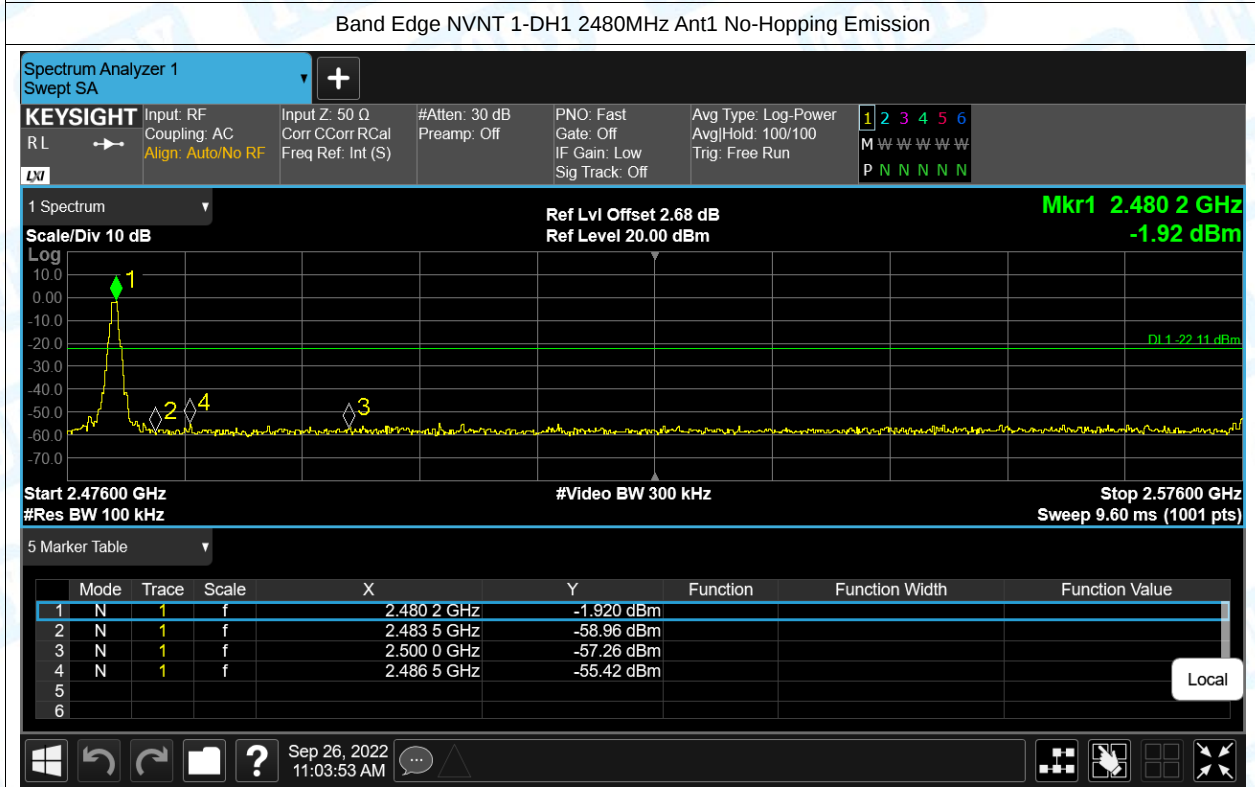
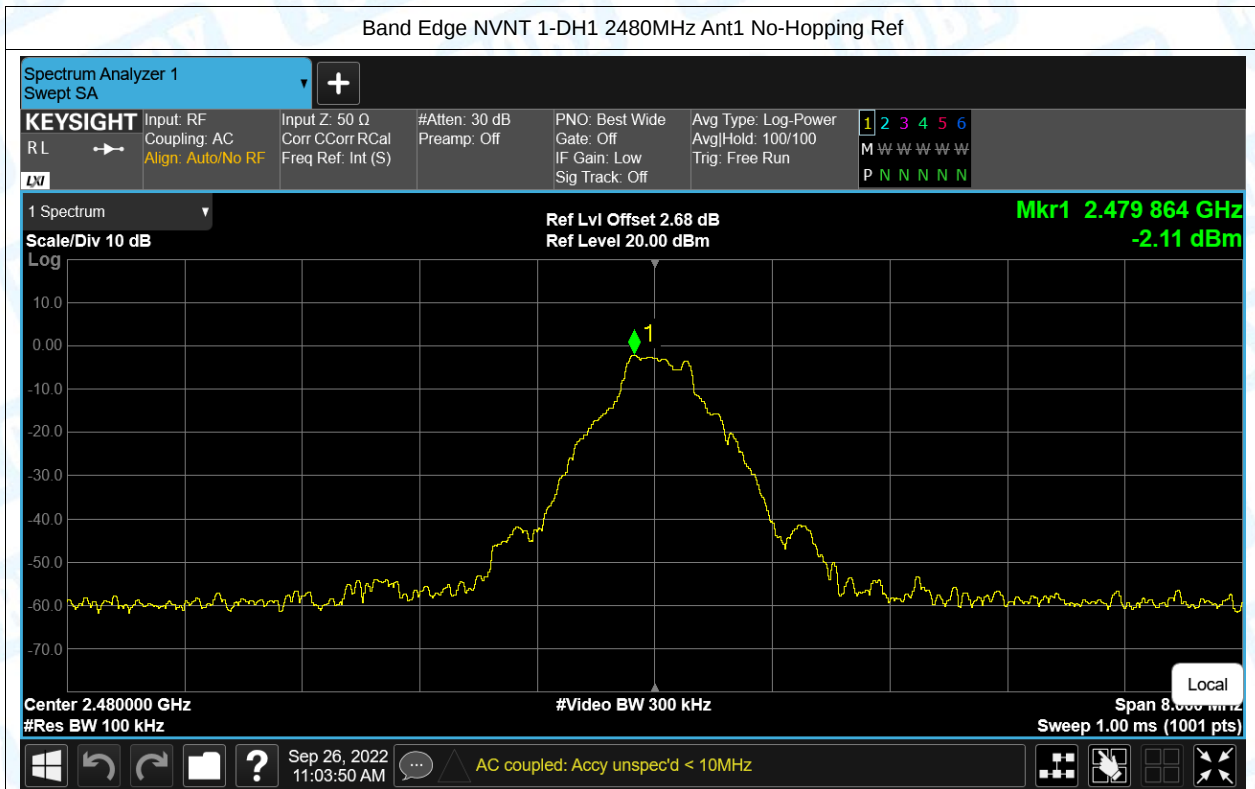
OBW NVNT 2-DH1 2480MHz Ant1

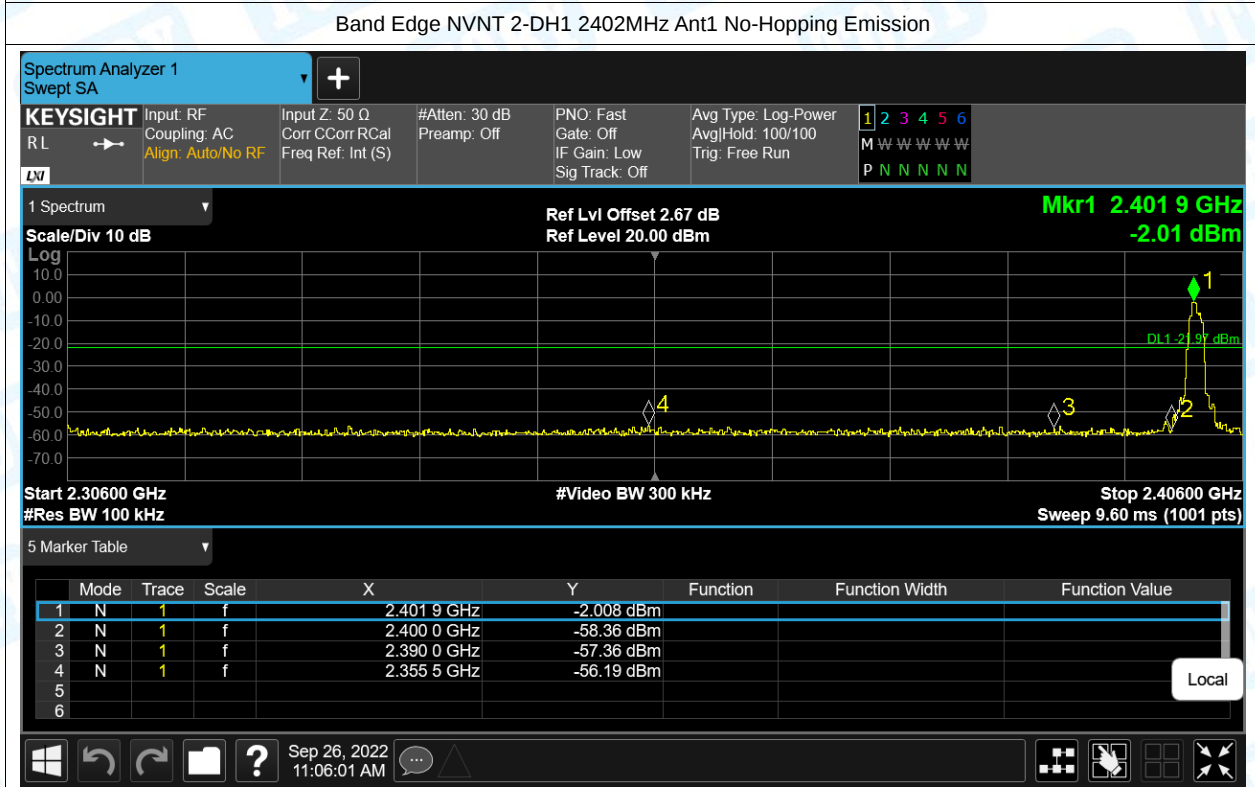
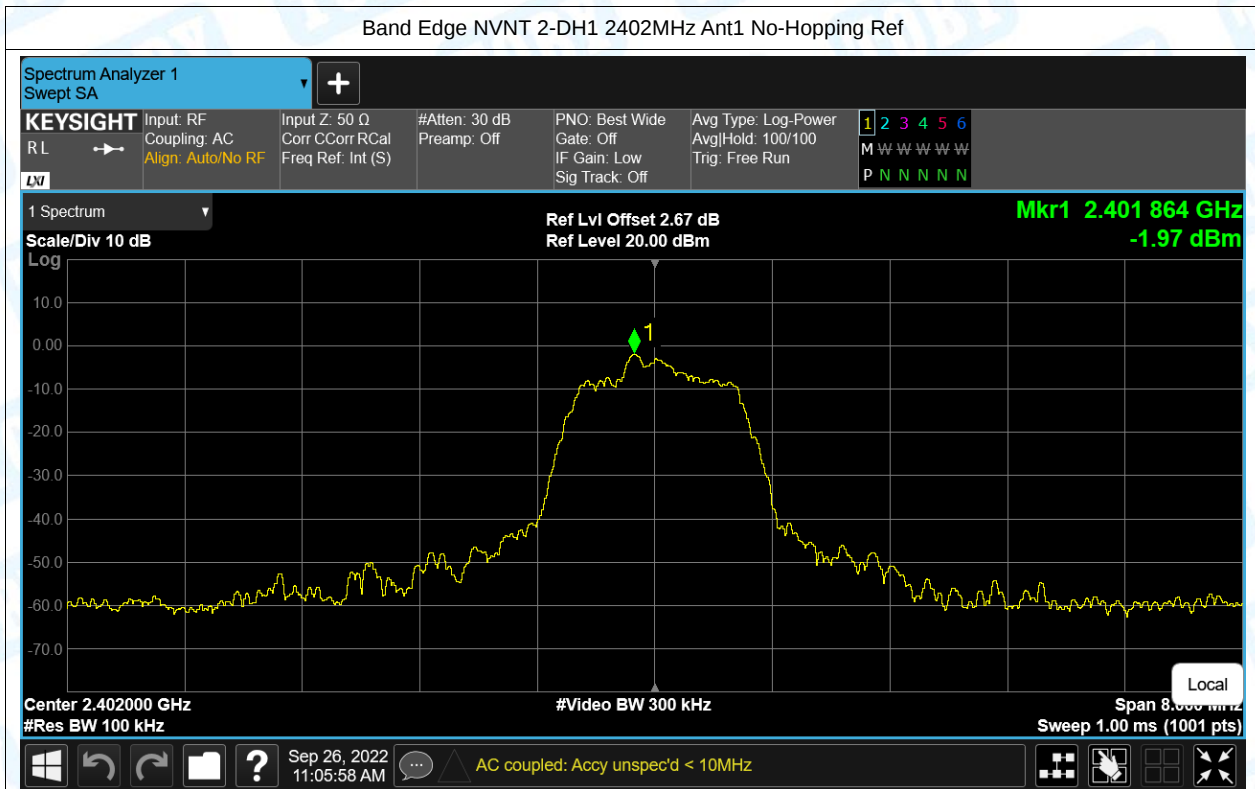


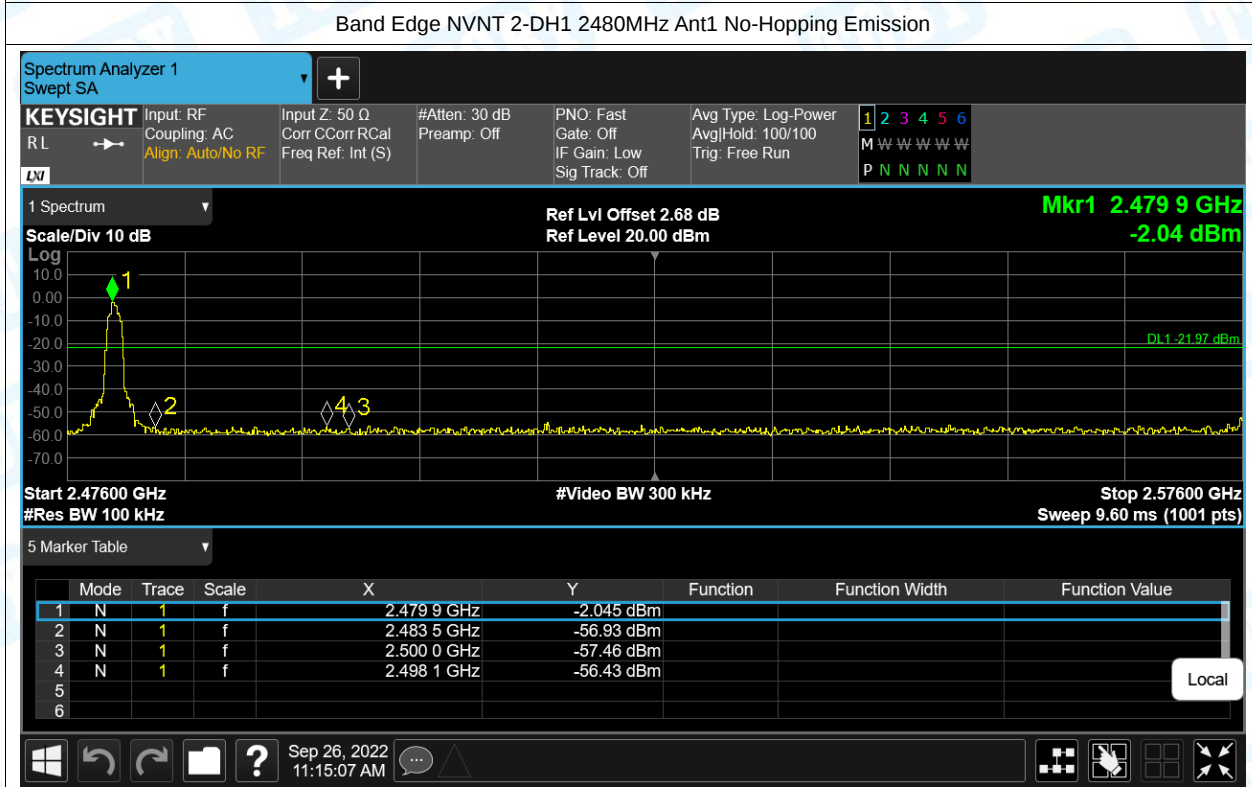
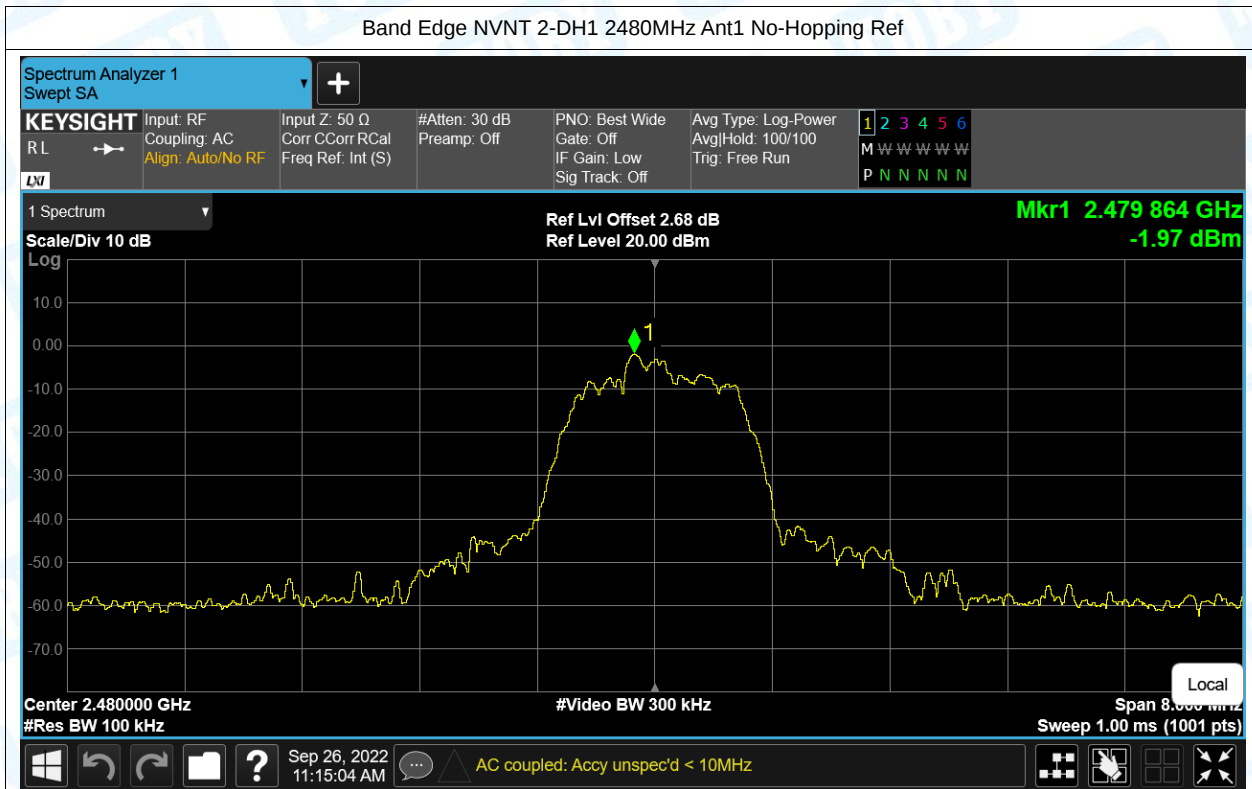
5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.14	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.31	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.22	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.46	-20	Pass





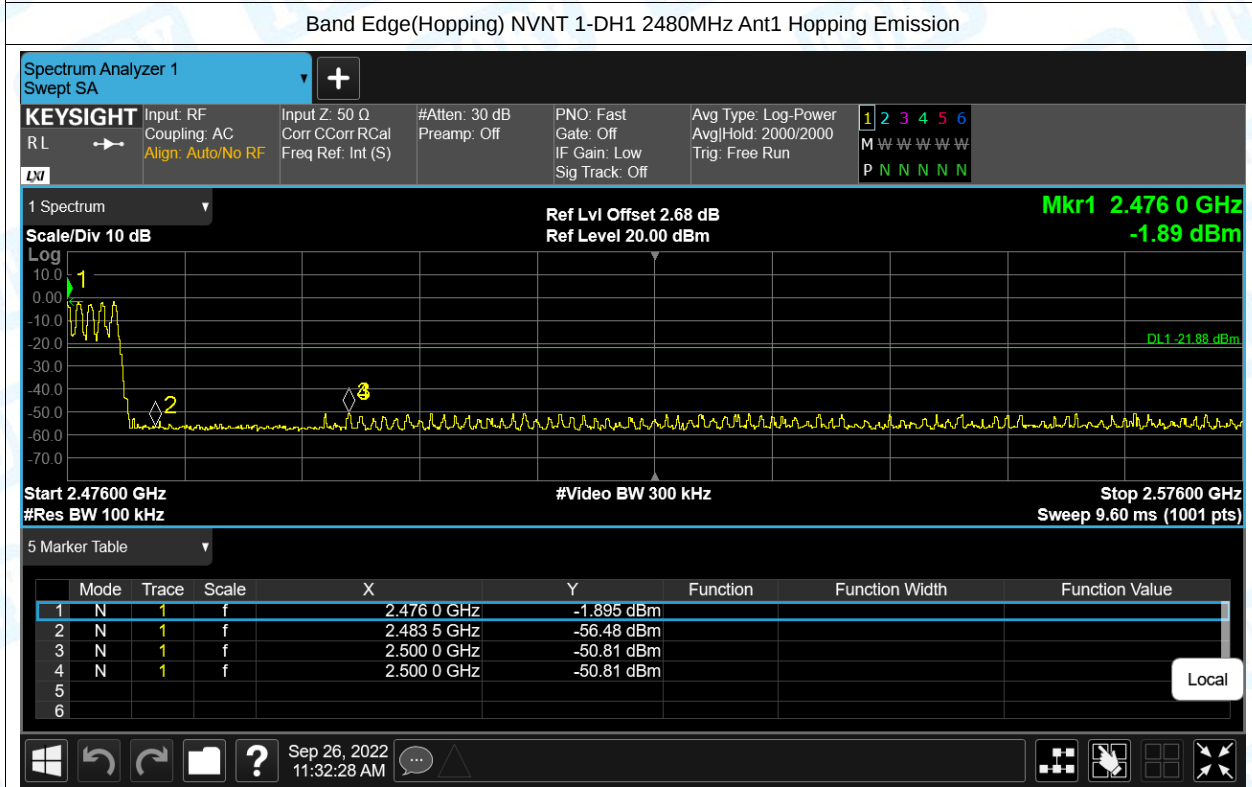
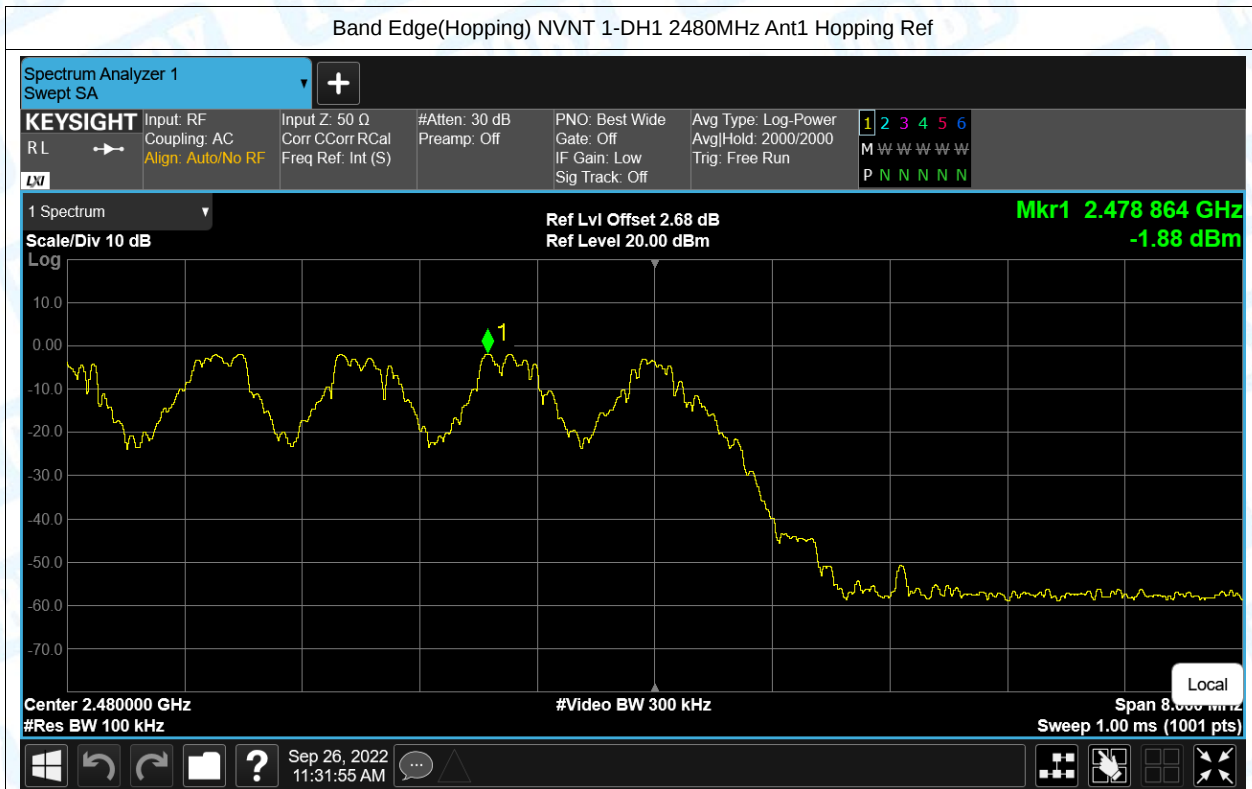


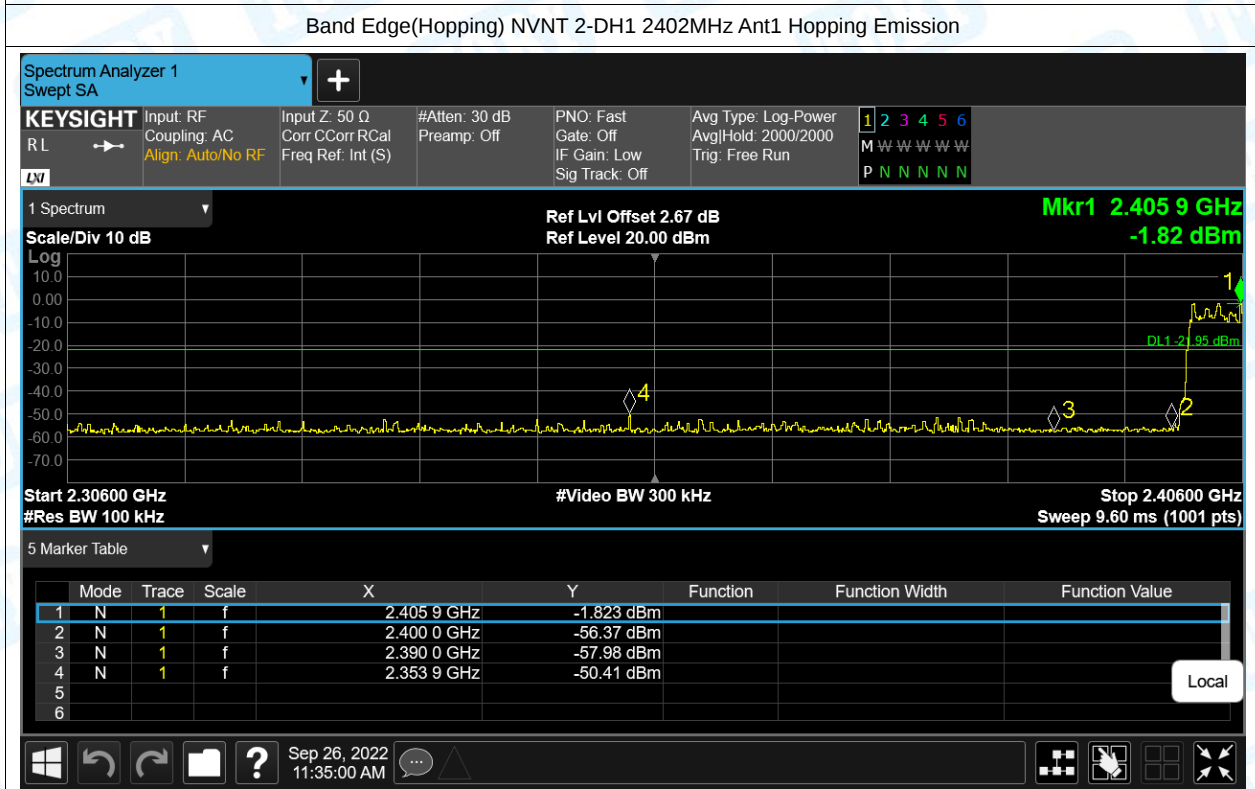
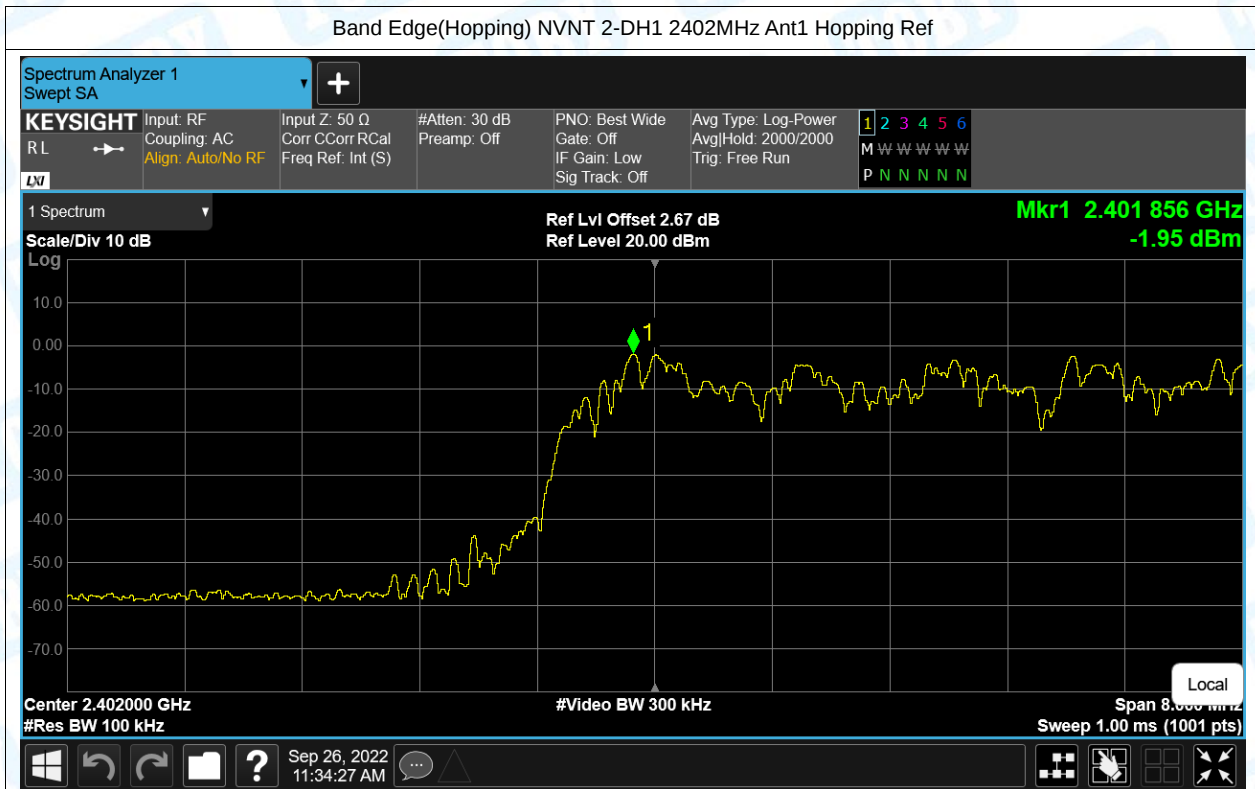


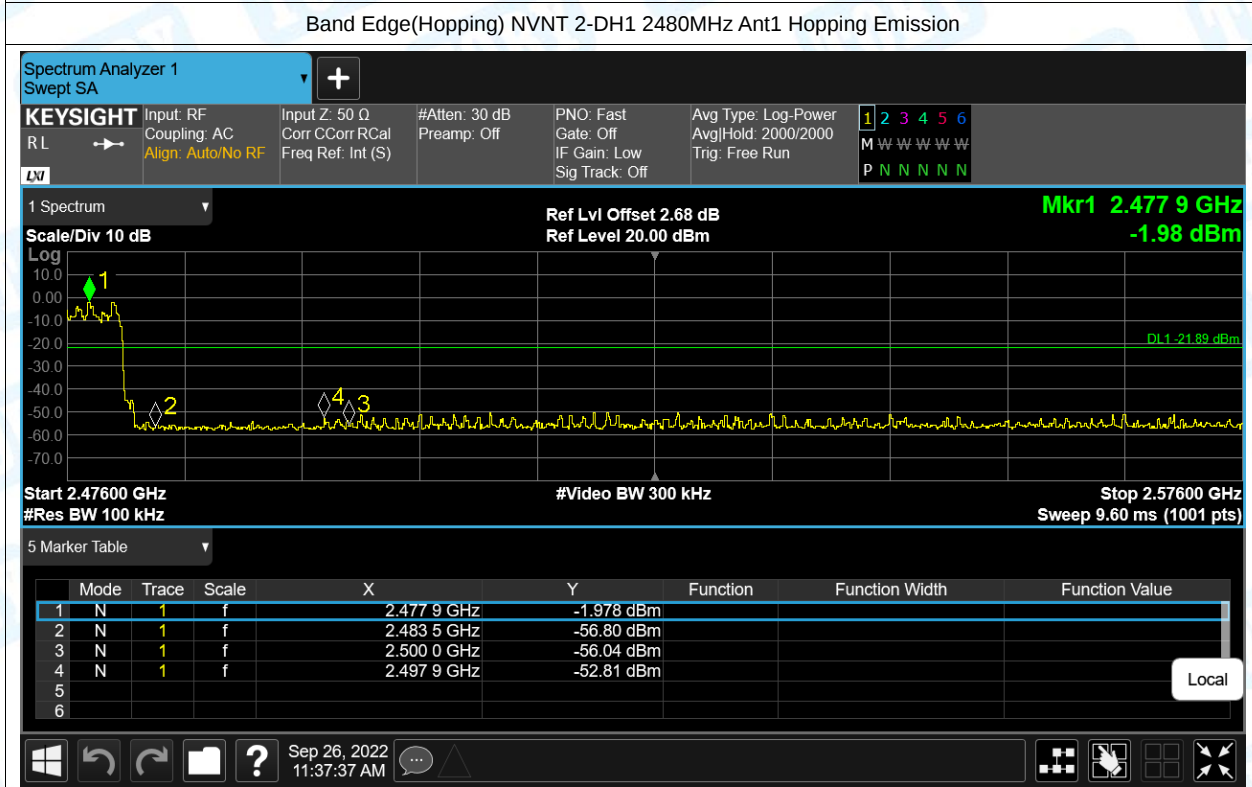
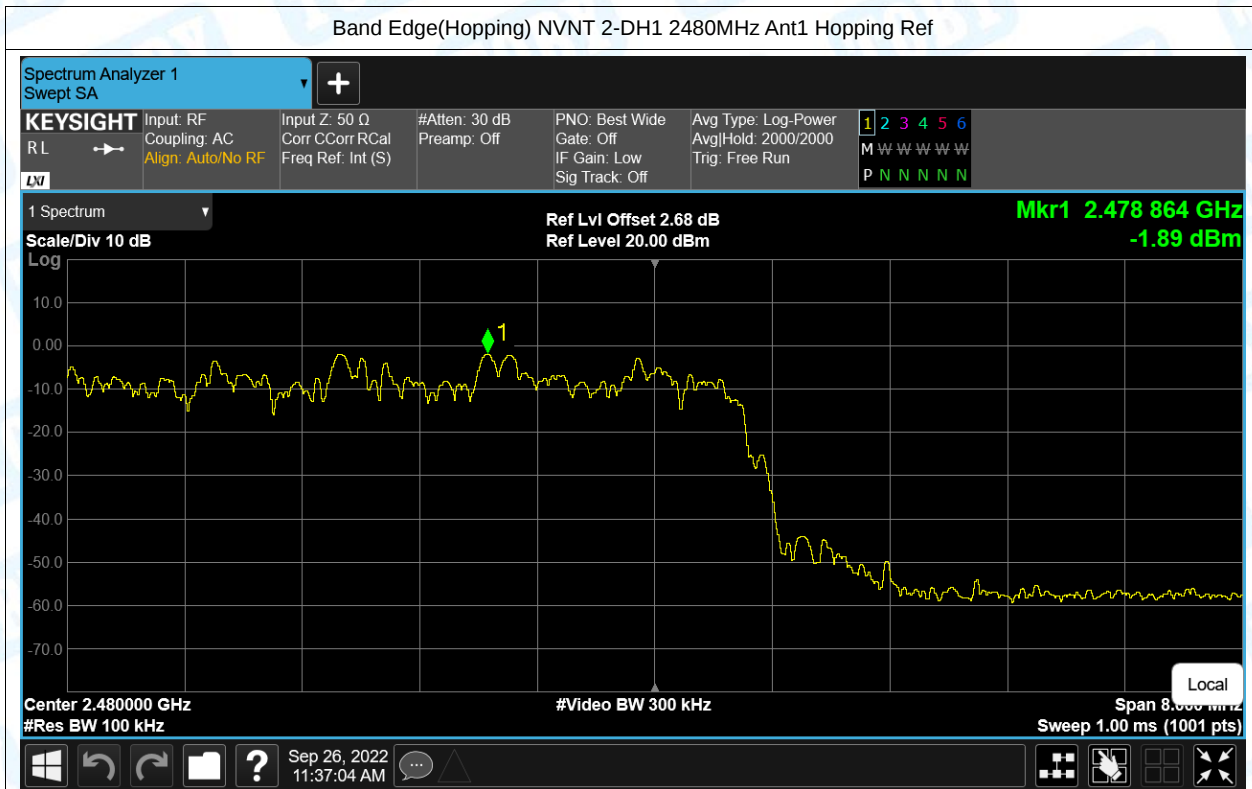
6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-48.75	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-48.93	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-48.46	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-50.92	-20	Pass



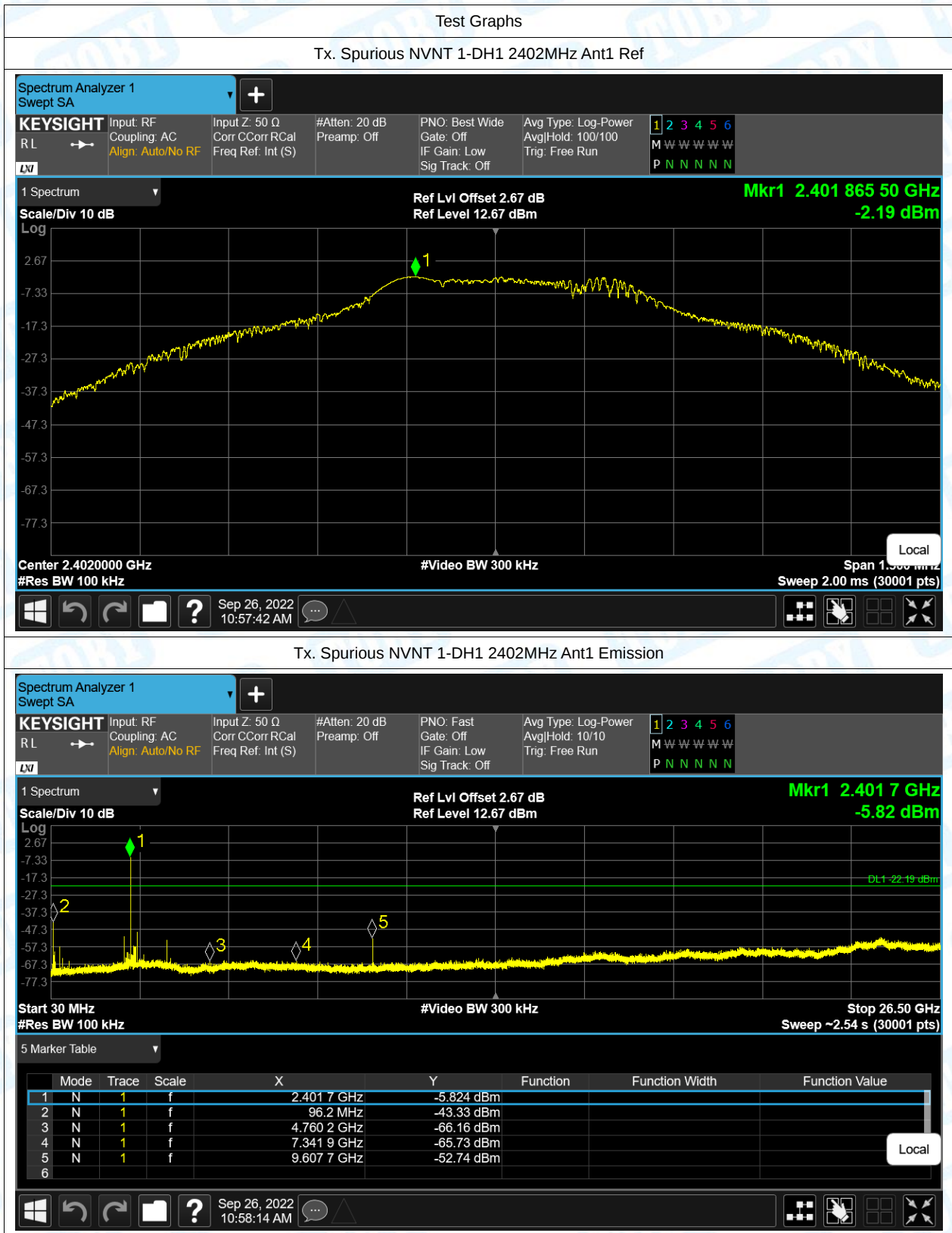


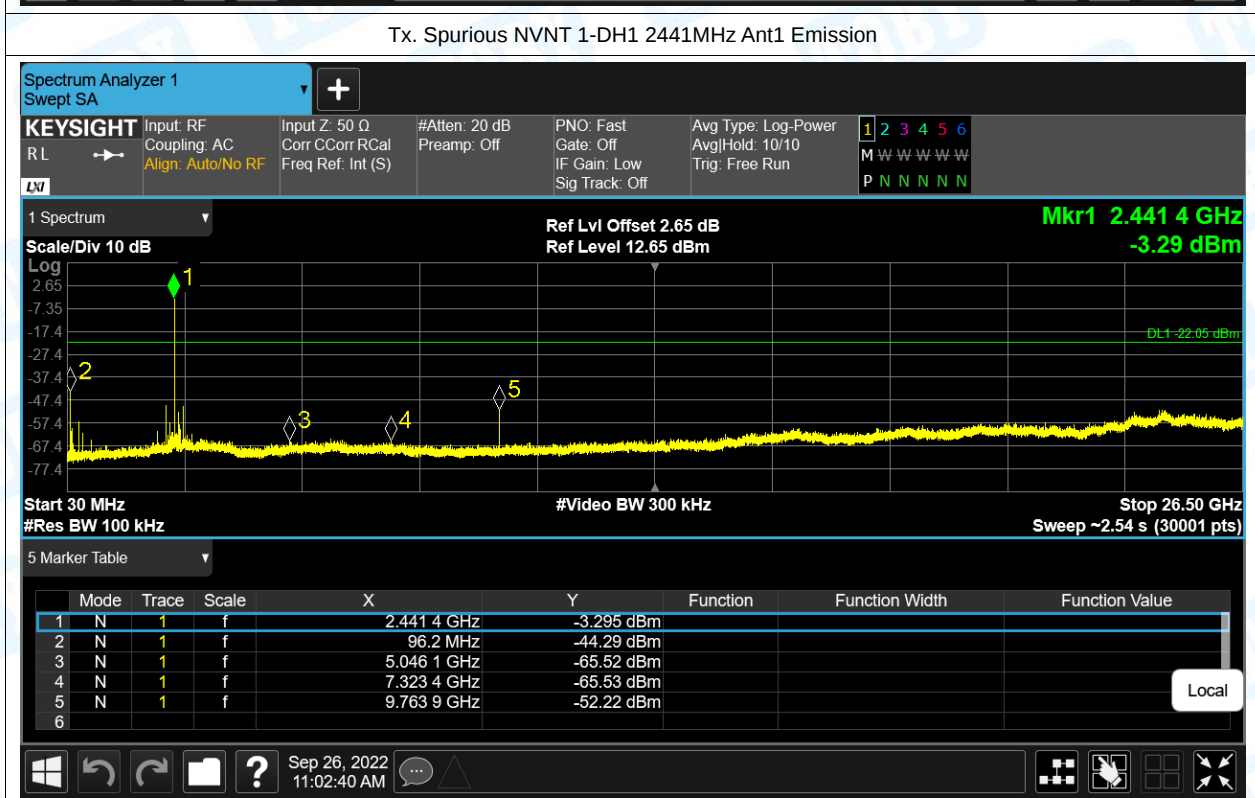
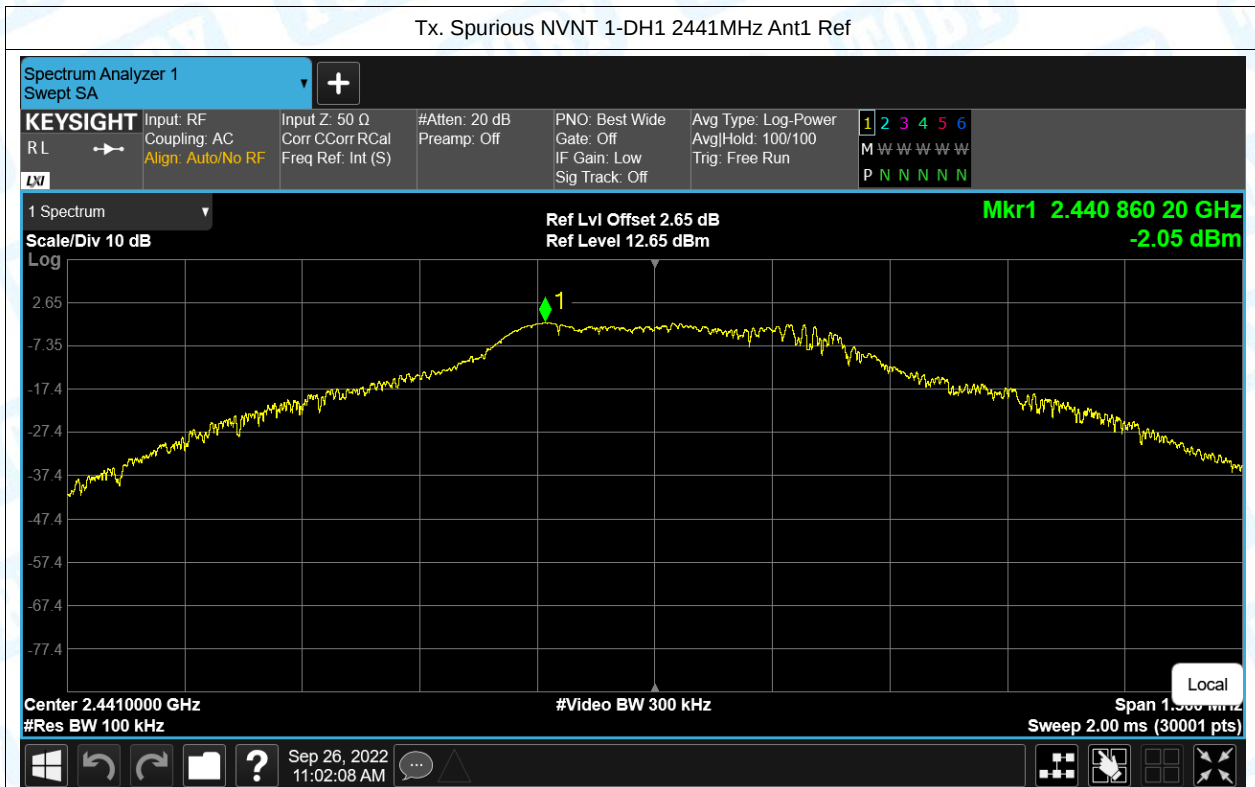


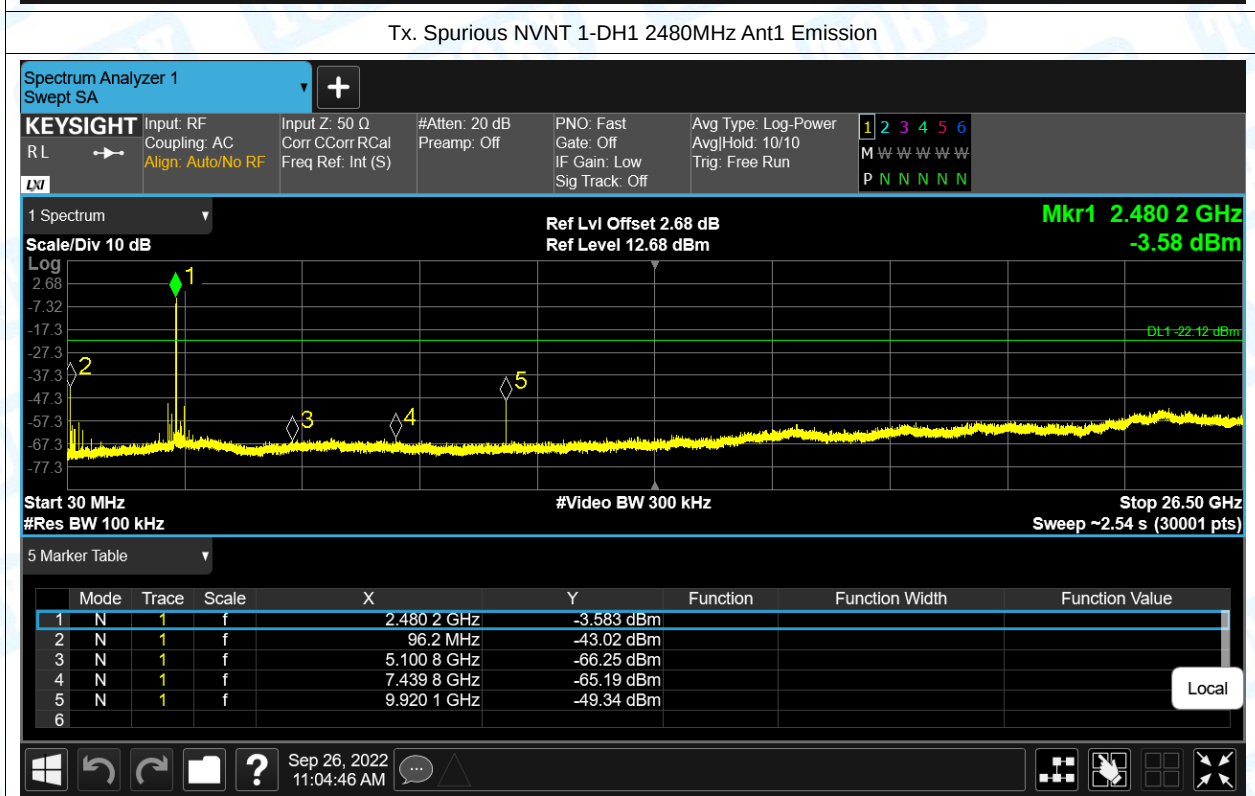
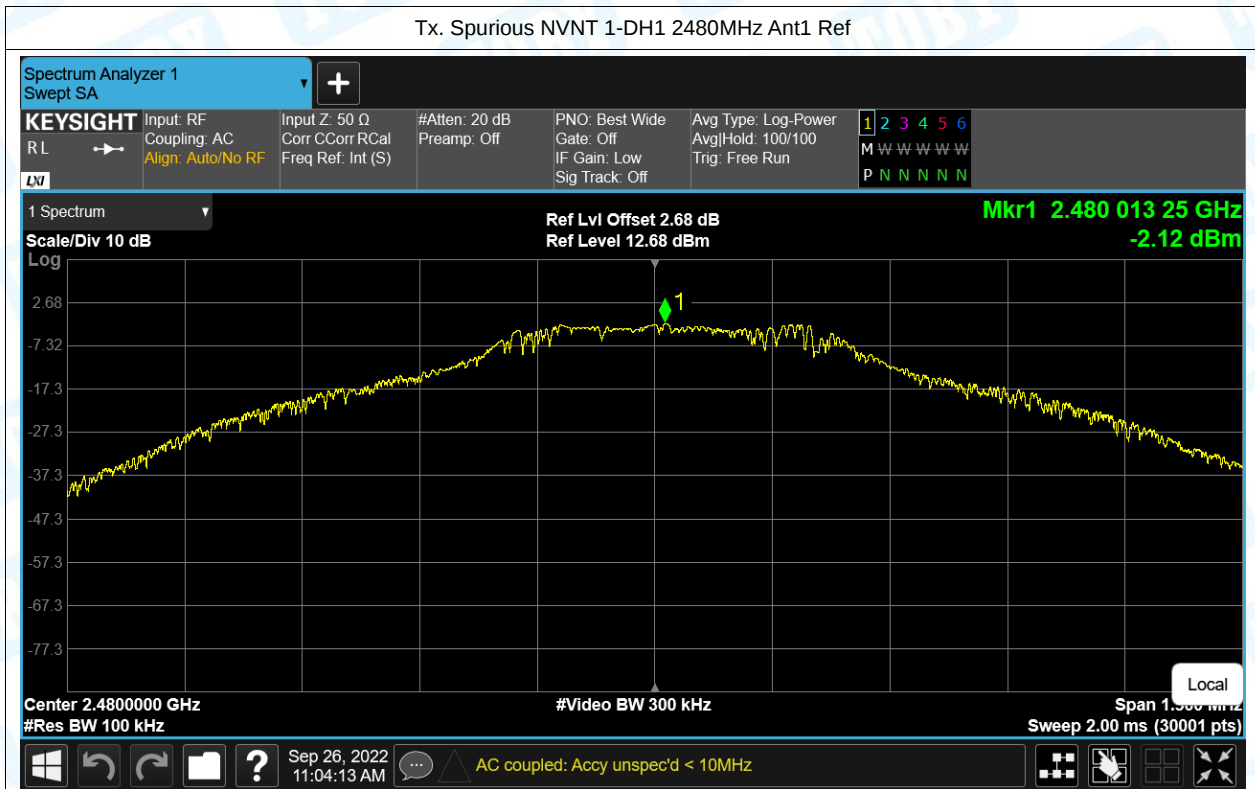


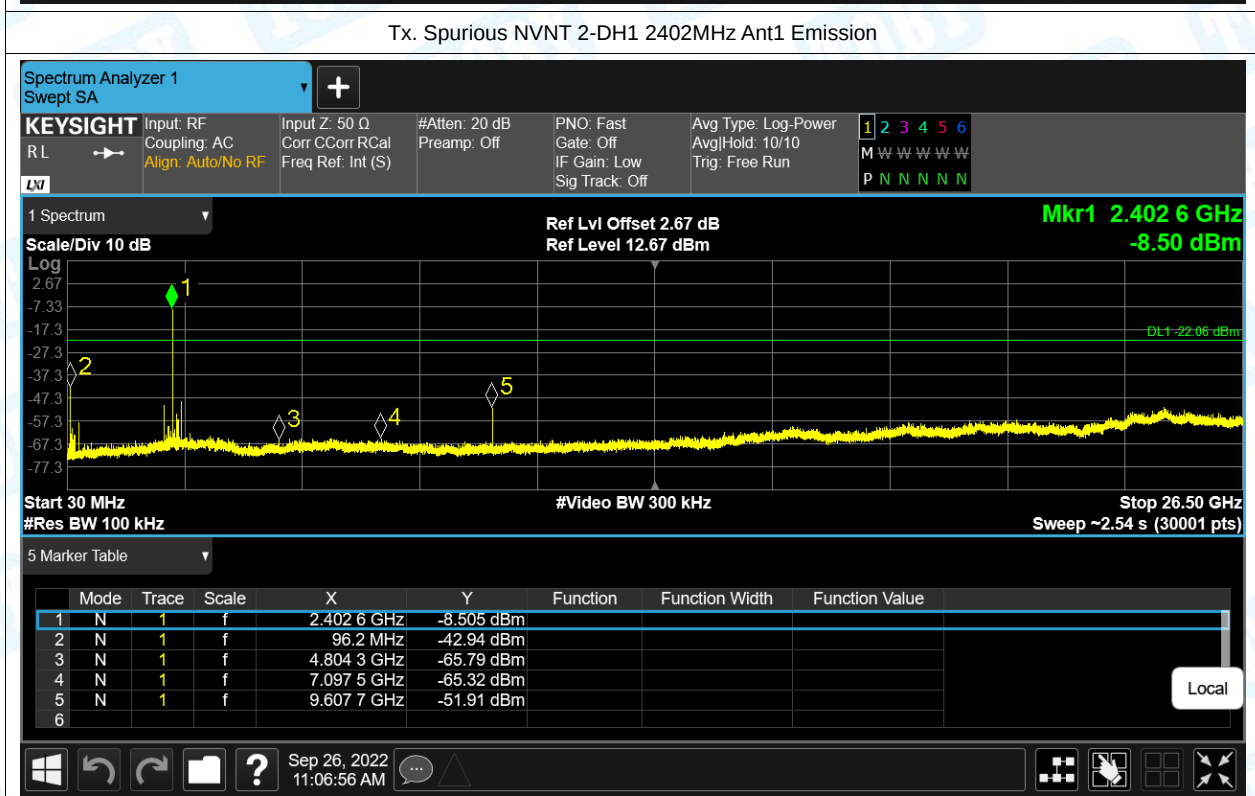
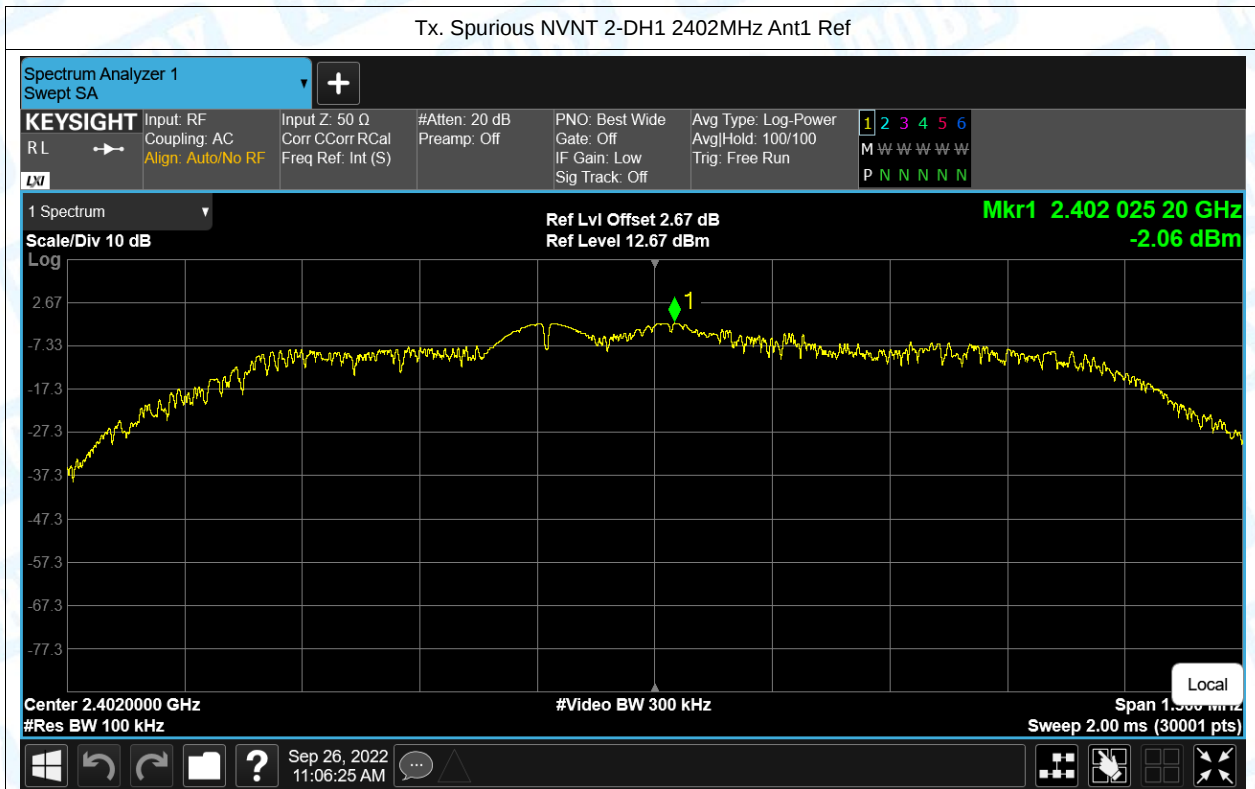
7. Conducted RF Spurious Emission

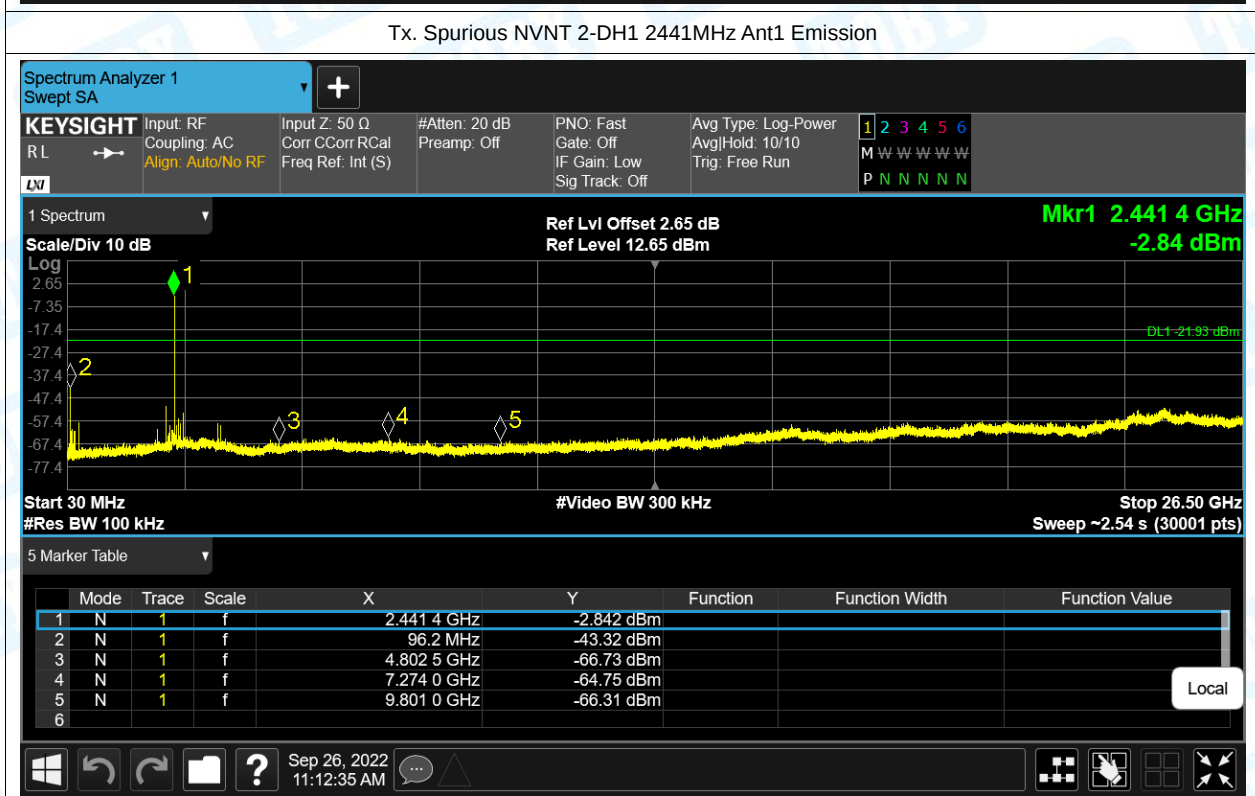
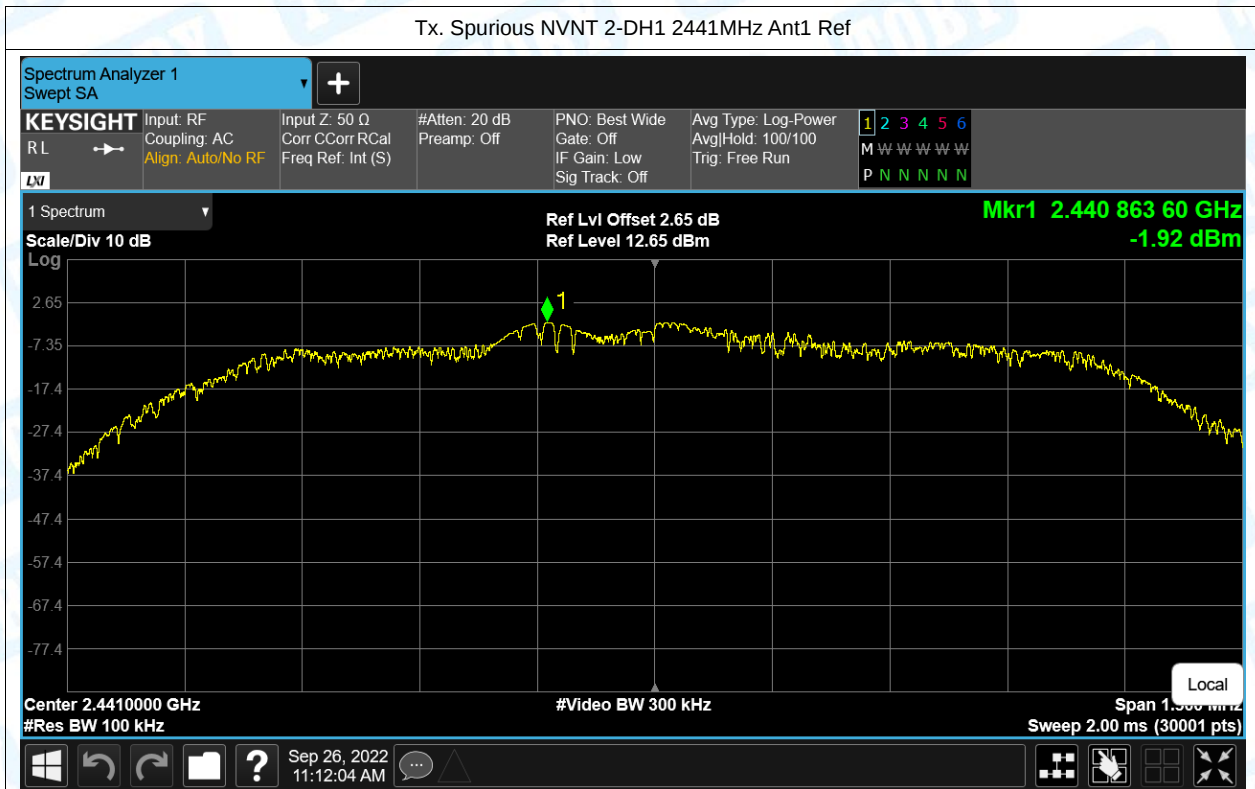
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-41.14	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.24	-20	Pass
NVNT	1-DH1	2480	Ant1	-40.9	-20	Pass
NVNT	2-DH1	2402	Ant1	-40.88	-20	Pass
NVNT	2-DH1	2441	Ant1	-41.4	-20	Pass
NVNT	2-DH1	2480	Ant1	-47.11	-20	Pass

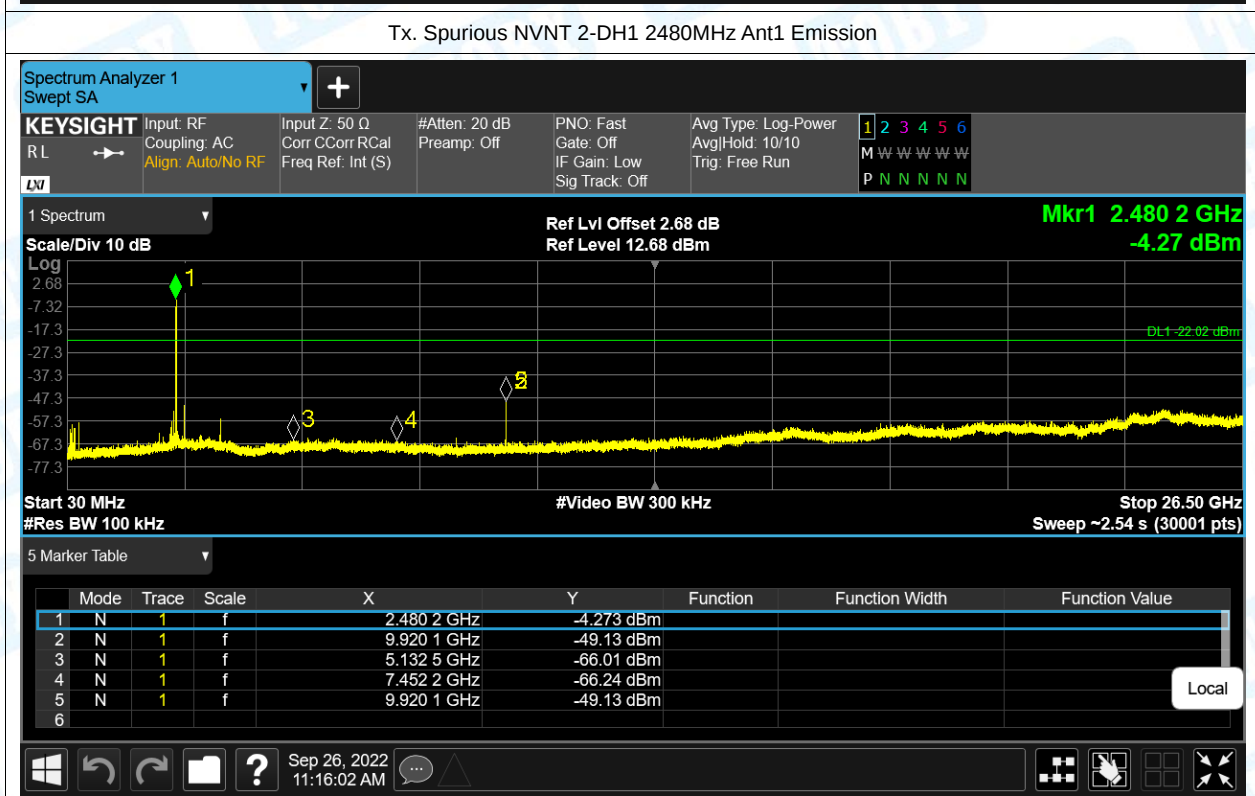
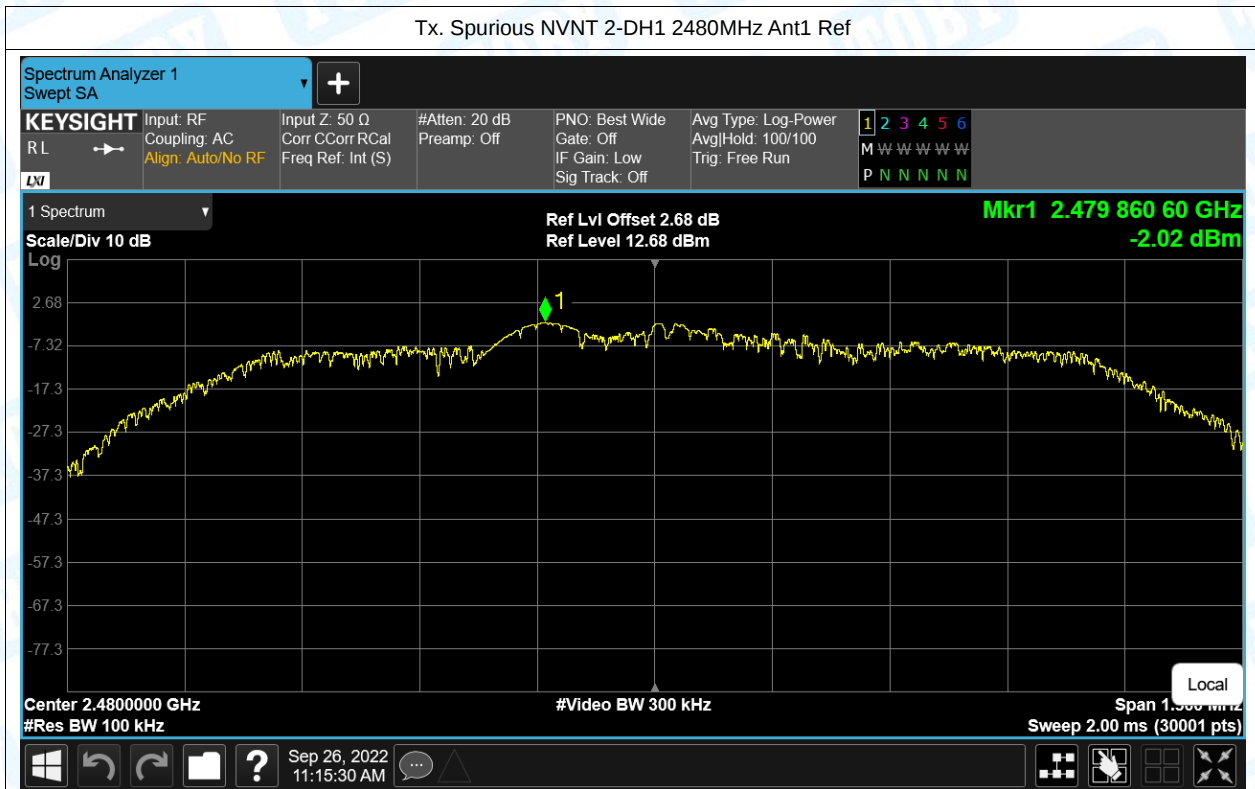






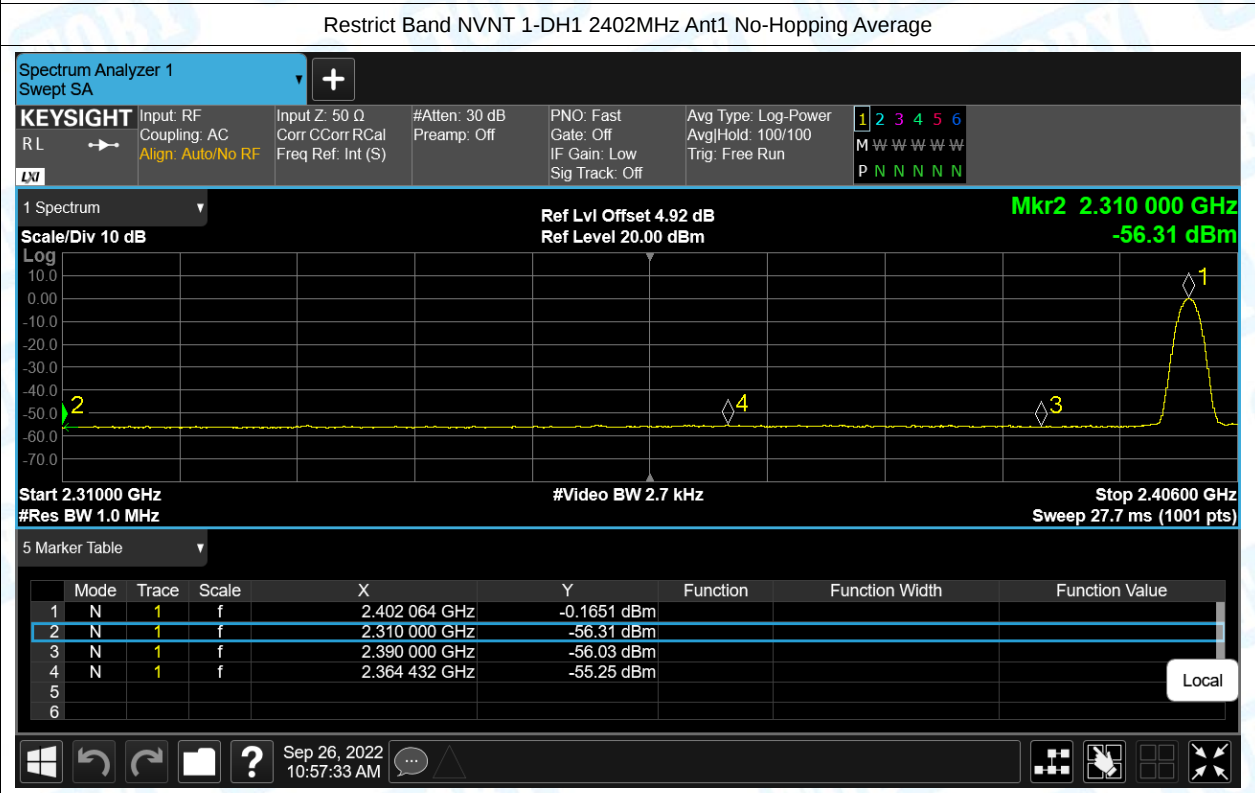
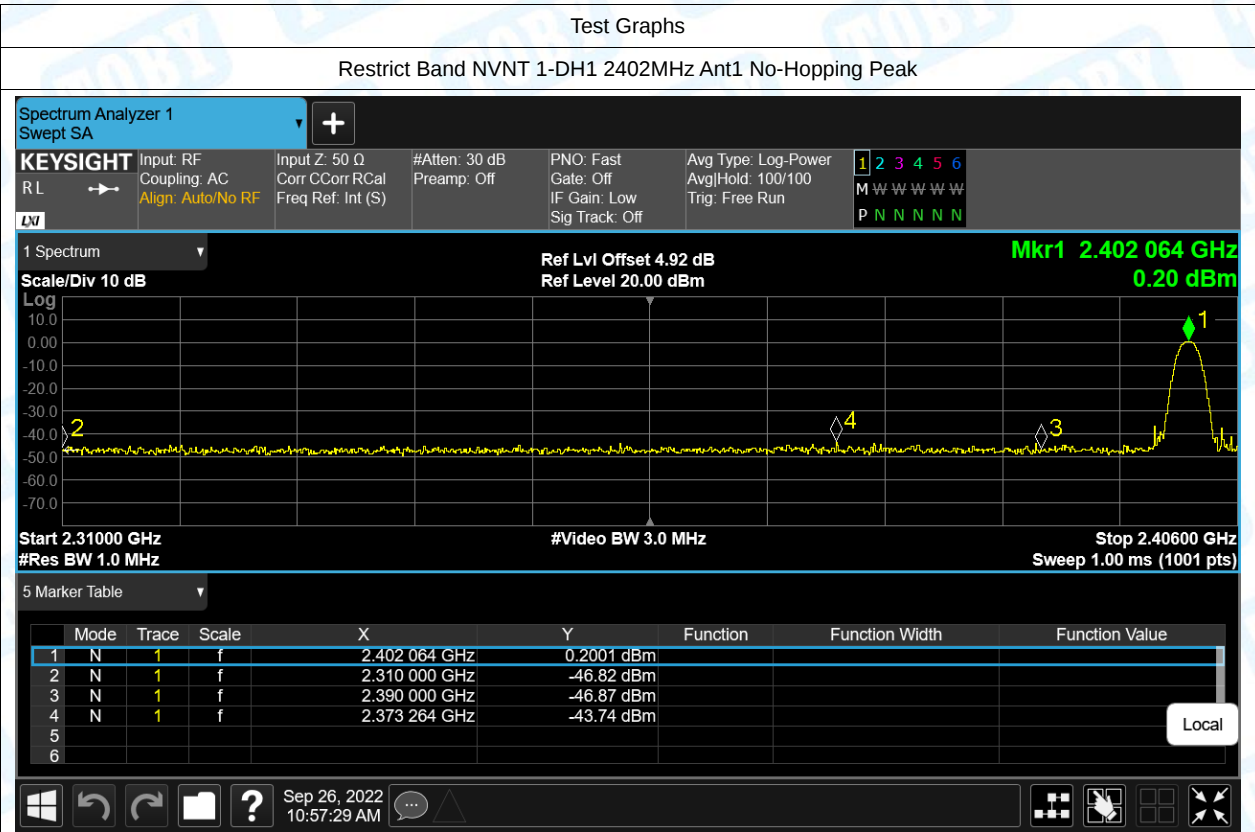




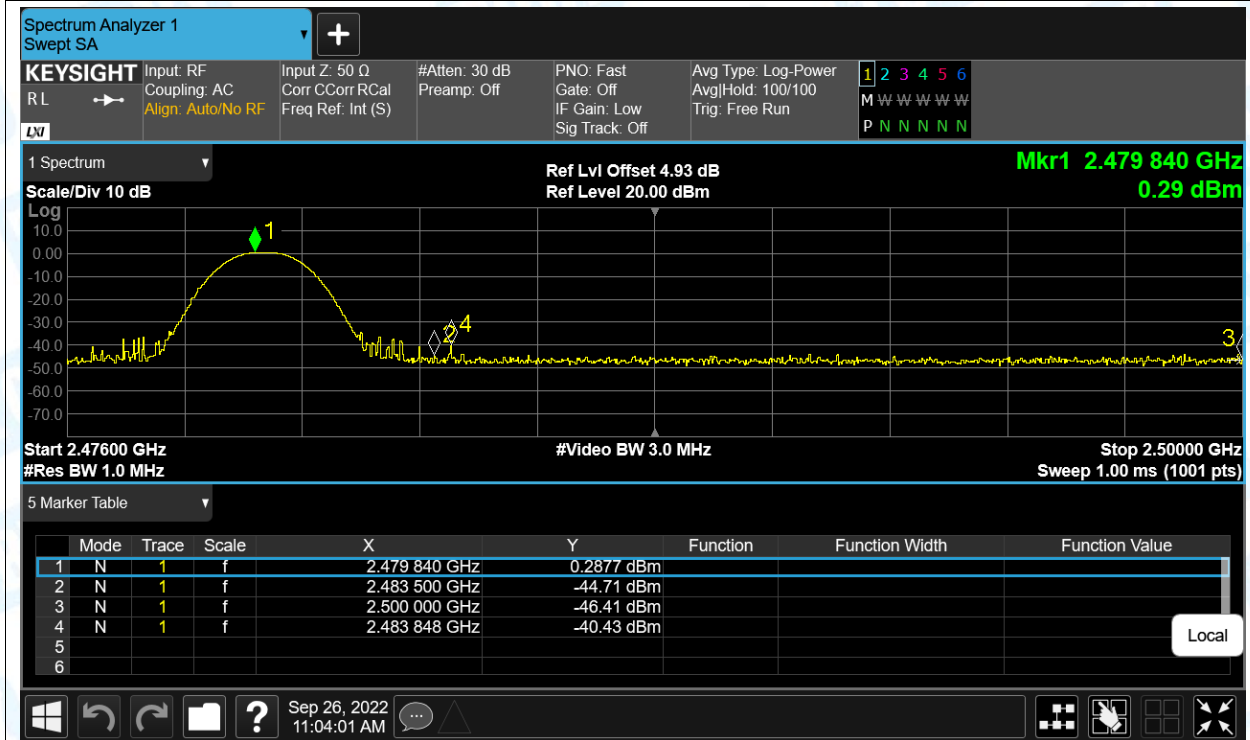


8. Restrict Band

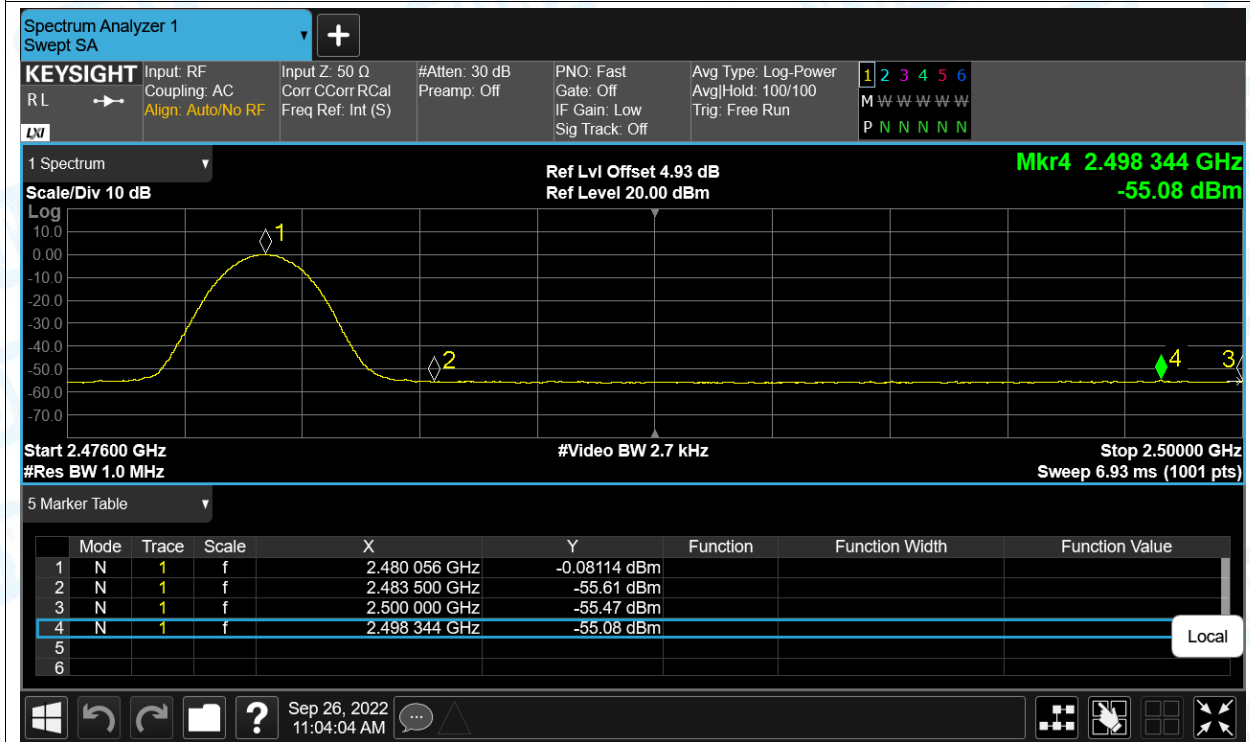
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.82	2	50.44	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.31	2	40.95	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2373.264	-43.74	2	53.52	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2364.432	-55.25	2	42.01	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.42	2	49.84	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.06	2	41.2	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.71	2	52.55	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.61	2	41.65	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.848	-40.43	2	56.83	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2498.344	-55.08	2	42.18	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.41	2	50.85	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.47	2	41.79	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.32	2	48.94	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.45	2	40.81	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2364.624	-44.2	2	53.06	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.872	-55.19	2	42.07	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.07	2	51.19	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.27	2	40.99	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.06	2	50.2	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.58	2	41.68	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.152	-44.4	2	52.86	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2493.184	-55.22	2	42.04	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-45.62	2	51.64	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.76	2	41.5	Average	54	Pass

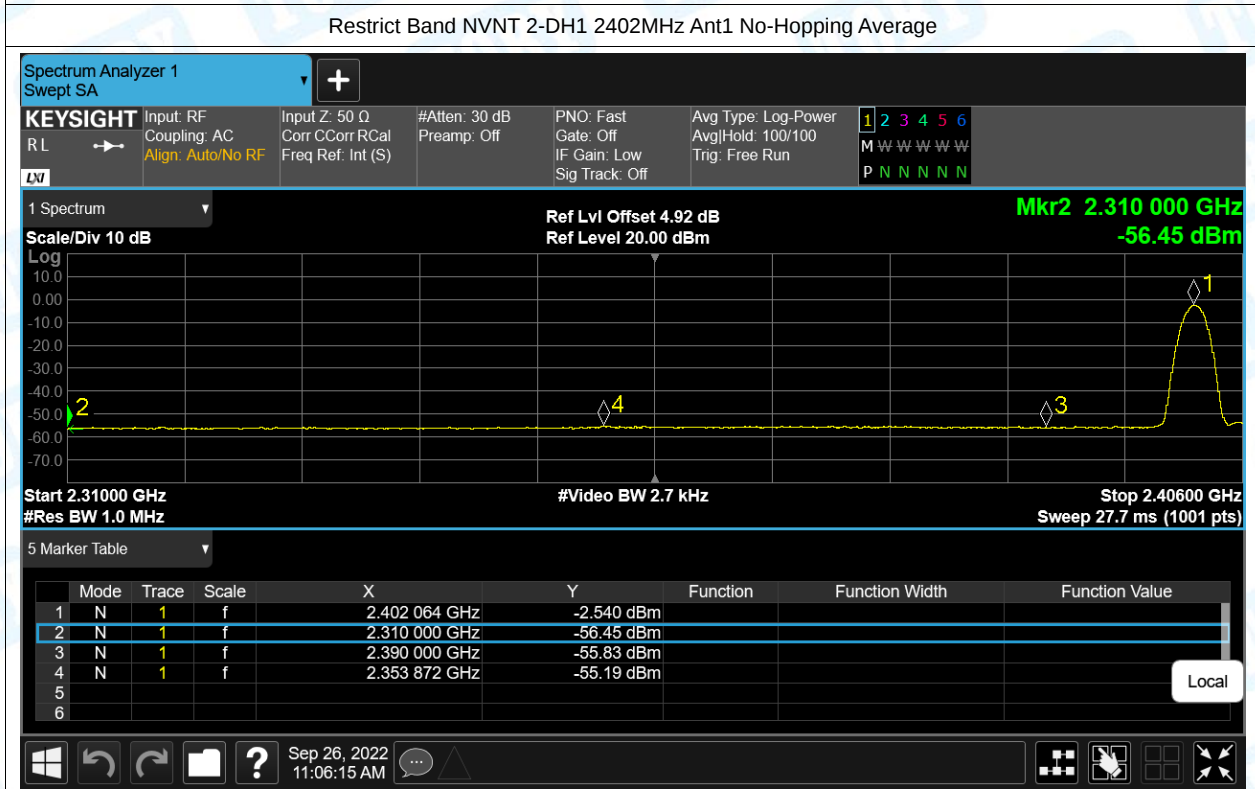
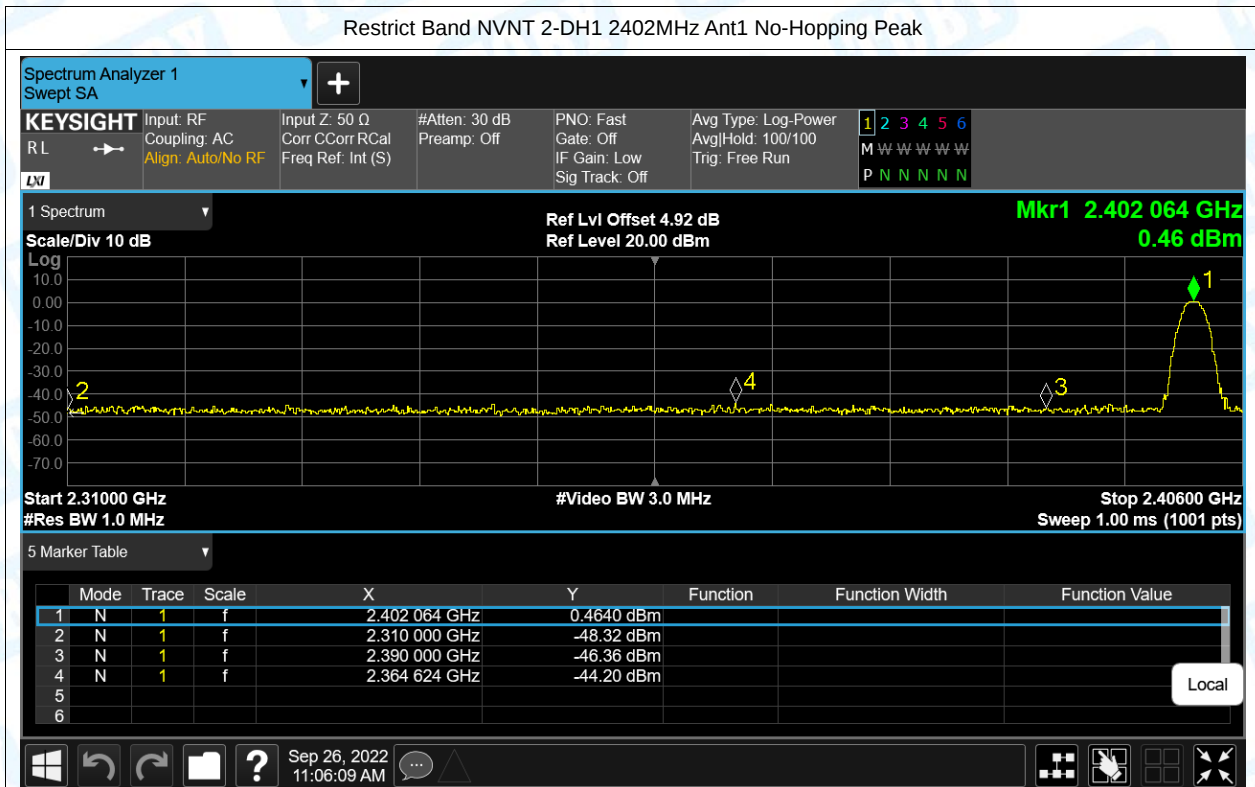


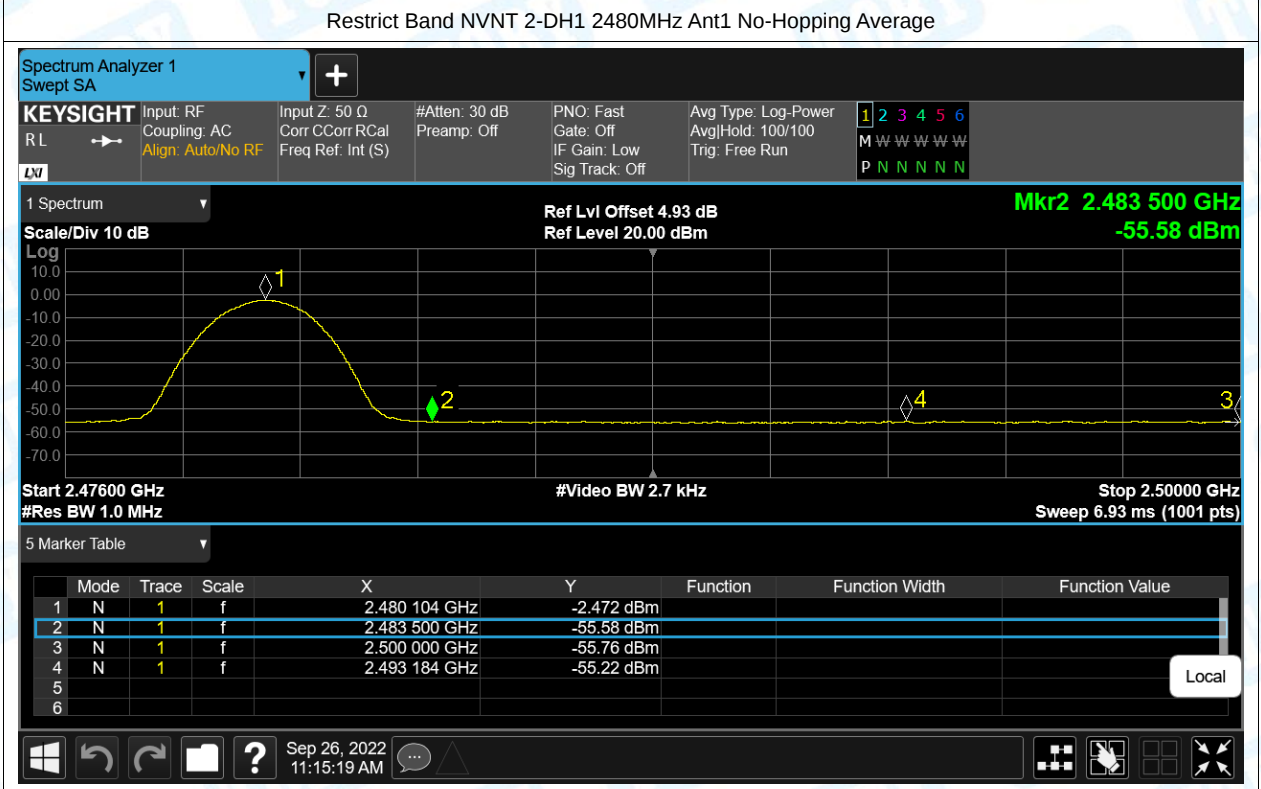
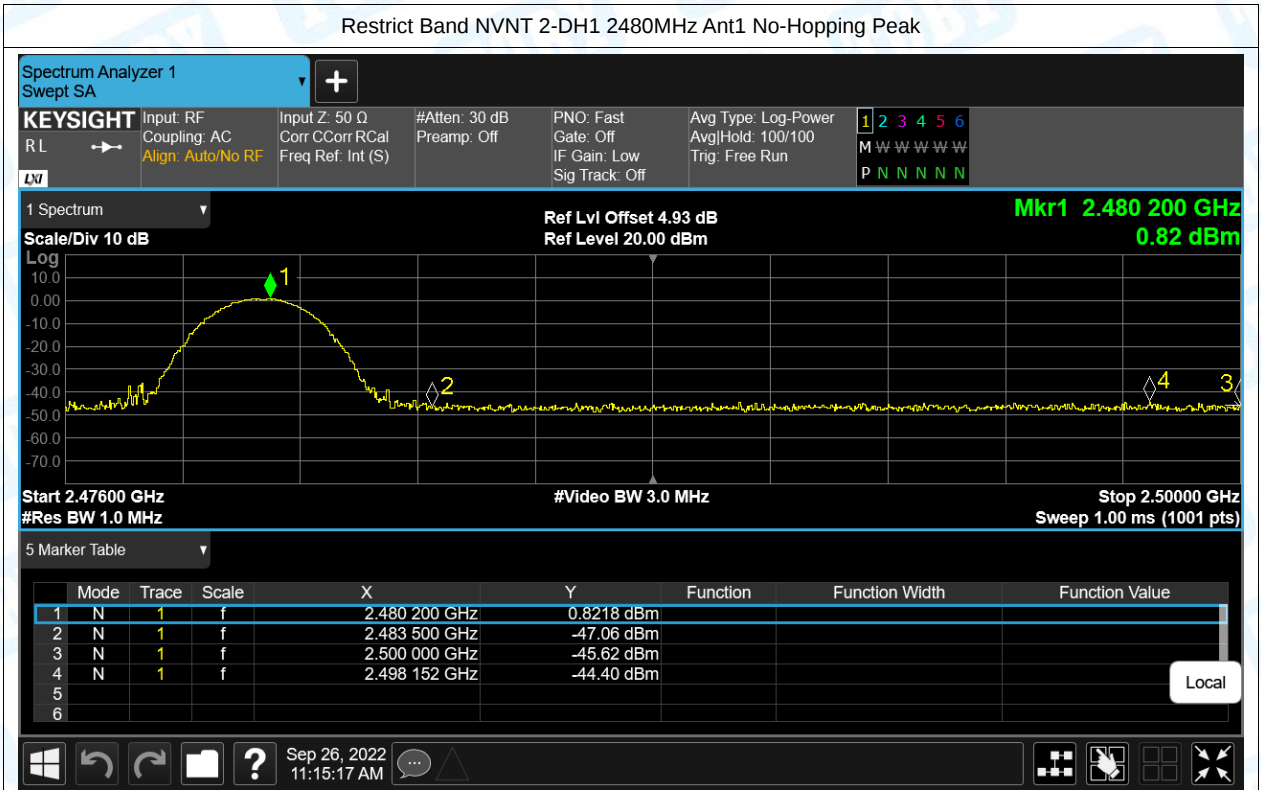
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average

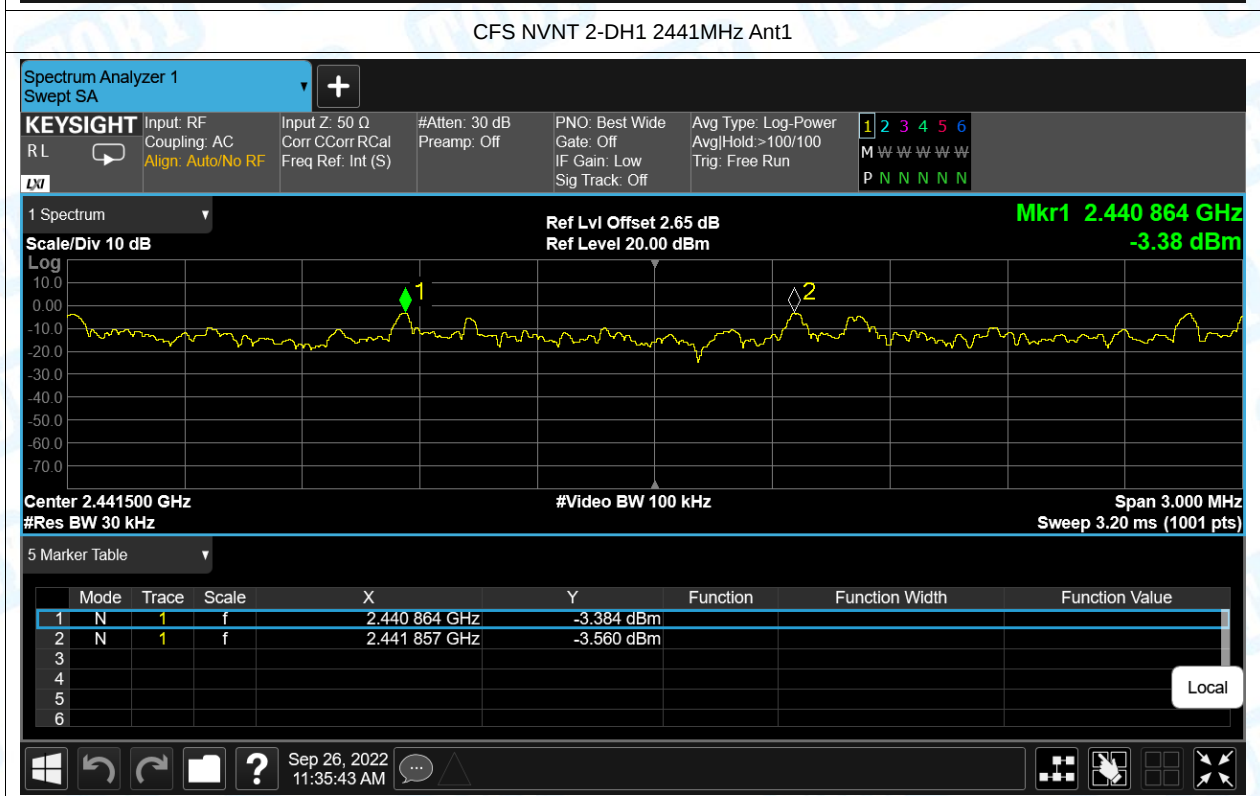
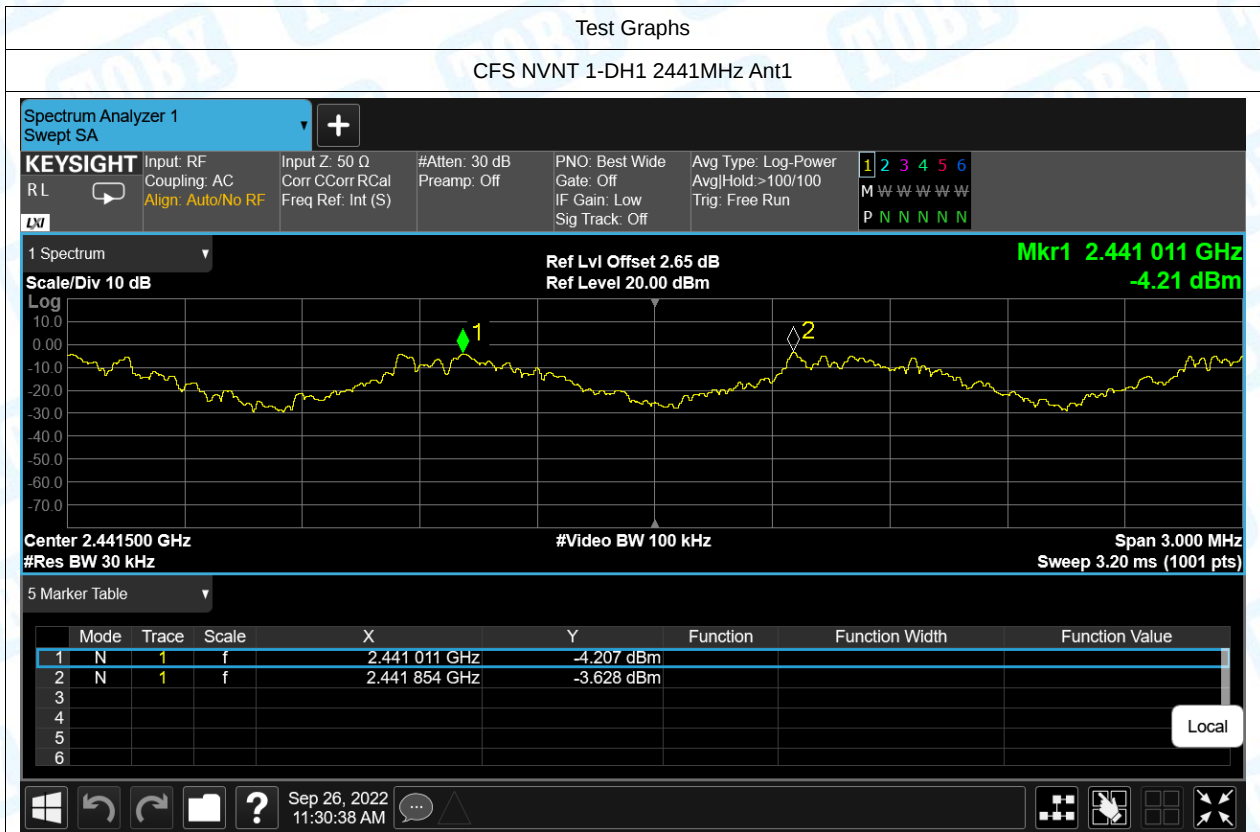






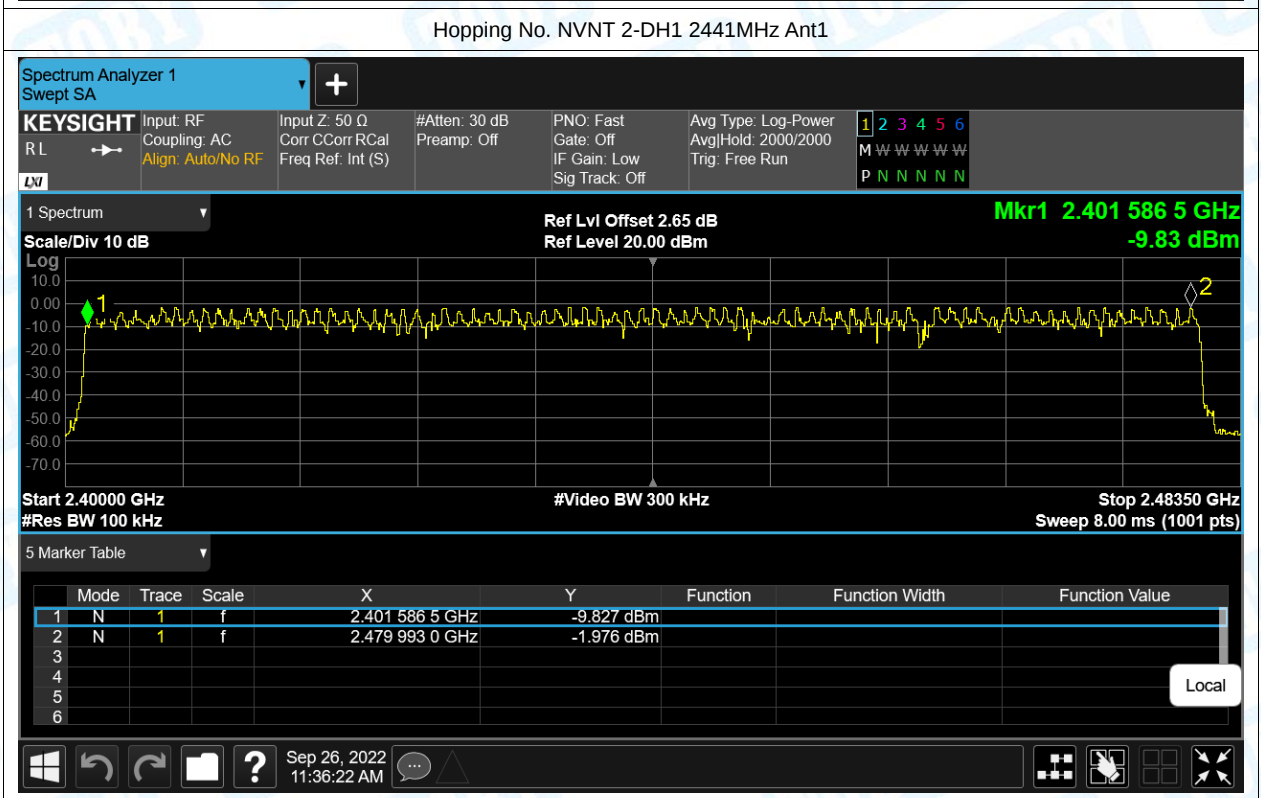
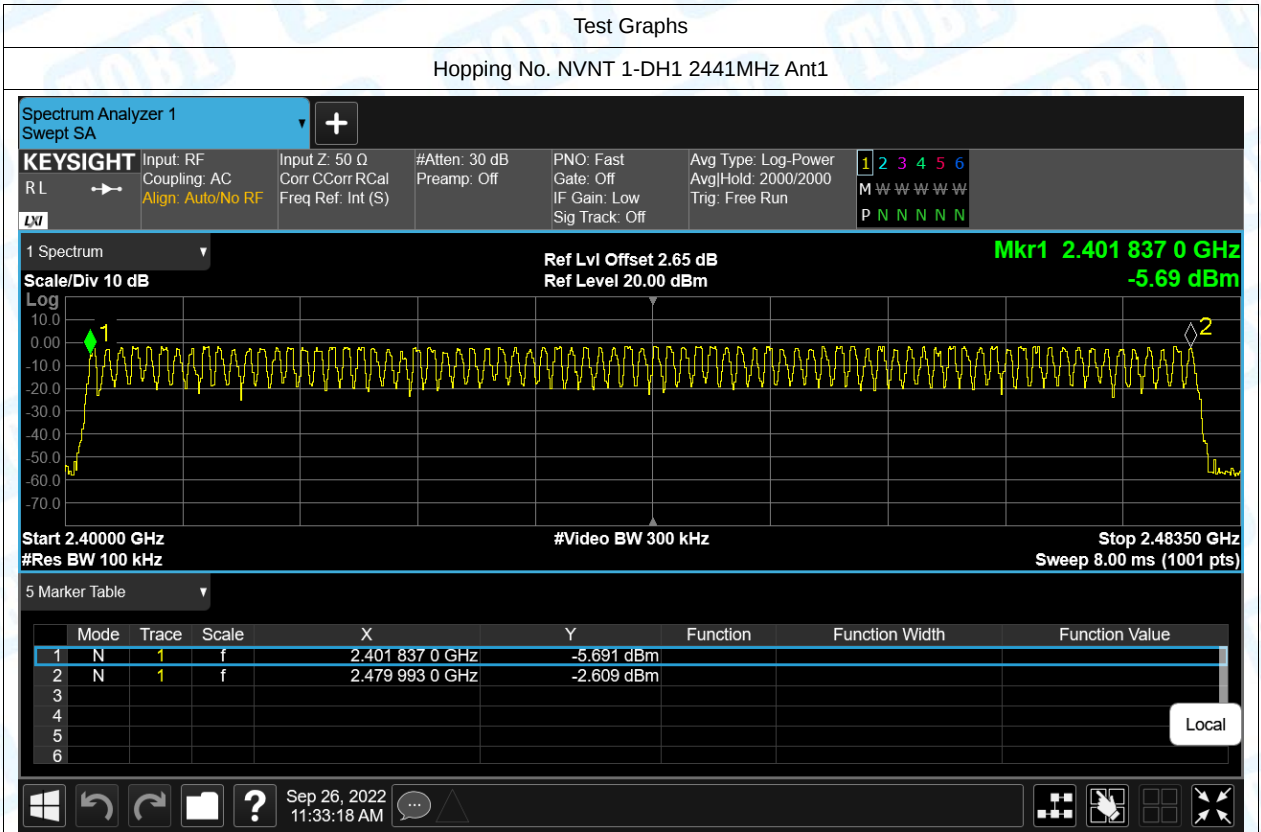
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.011	2441.854	0.843	0.587	Pass
NVNT	2-DH1	Ant1	2440.864	2441.857	0.993	0.813	Pass



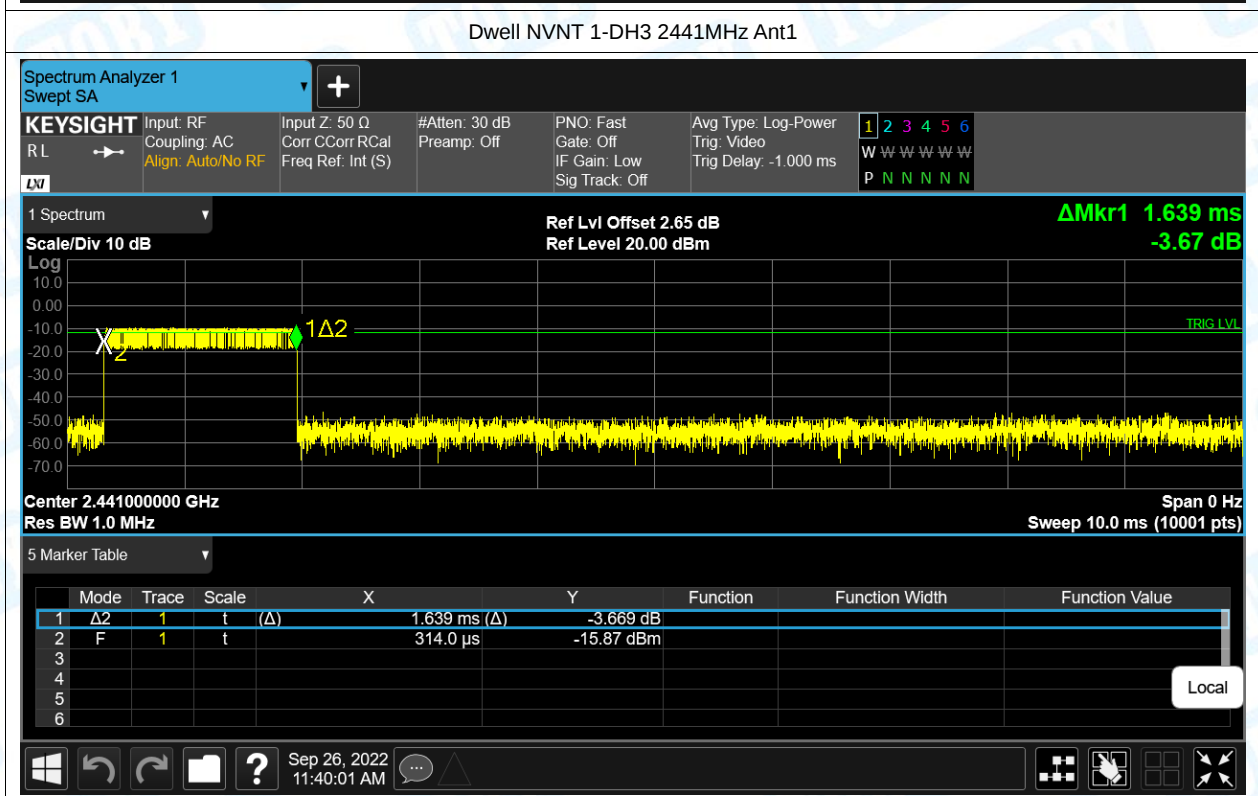
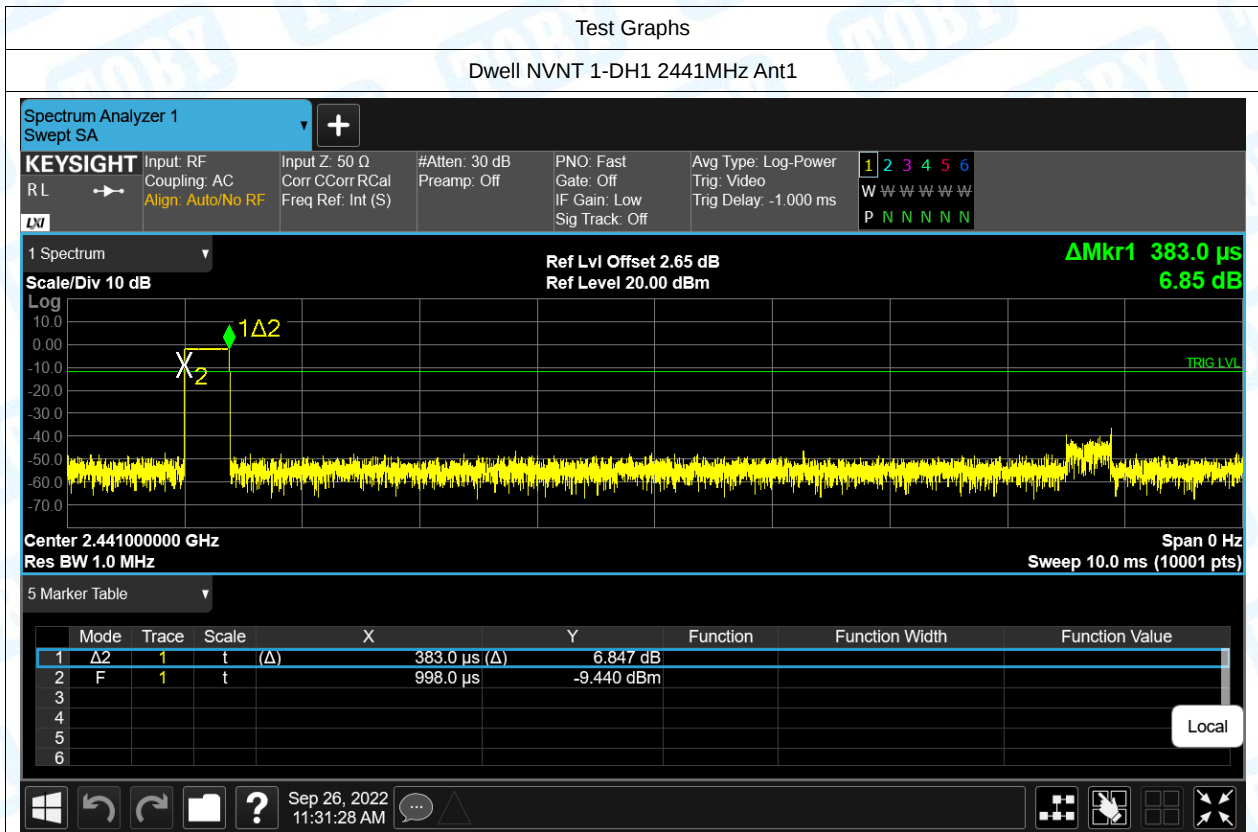
10. Number of Hopping Channel

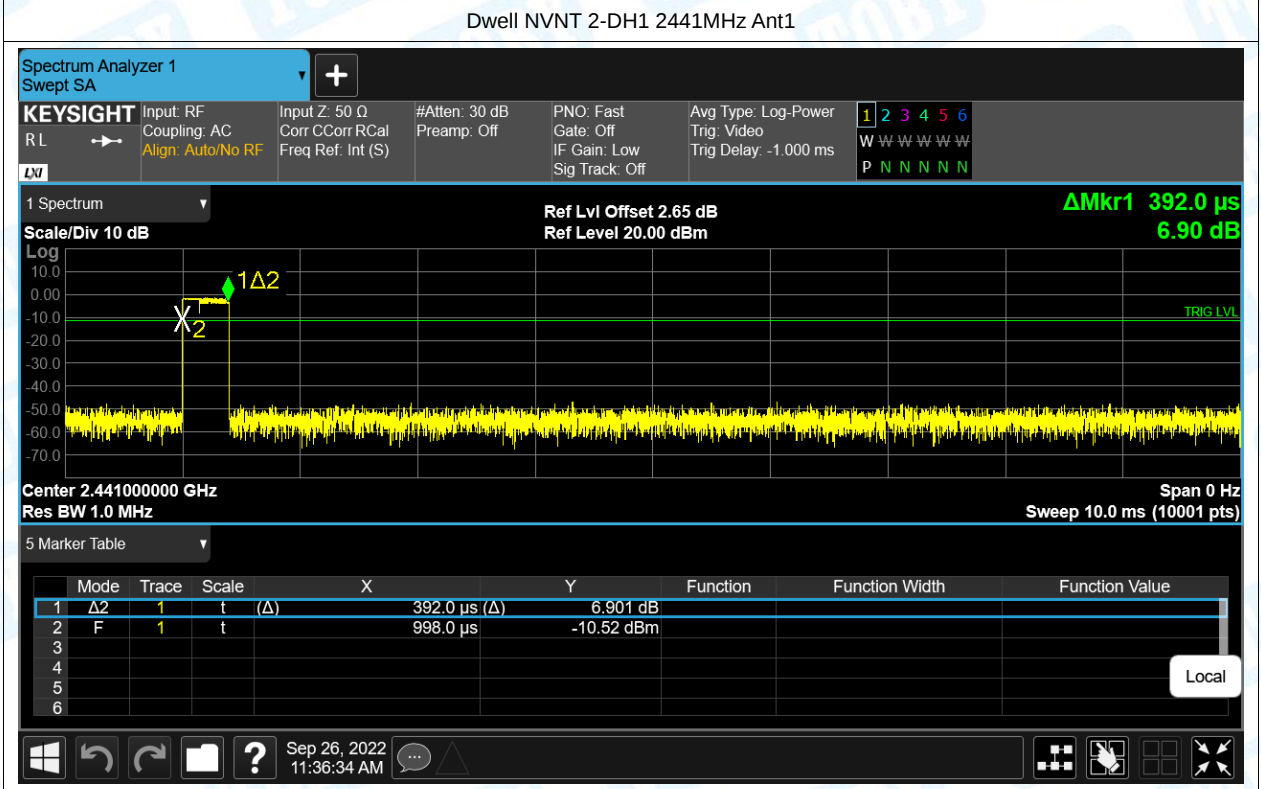
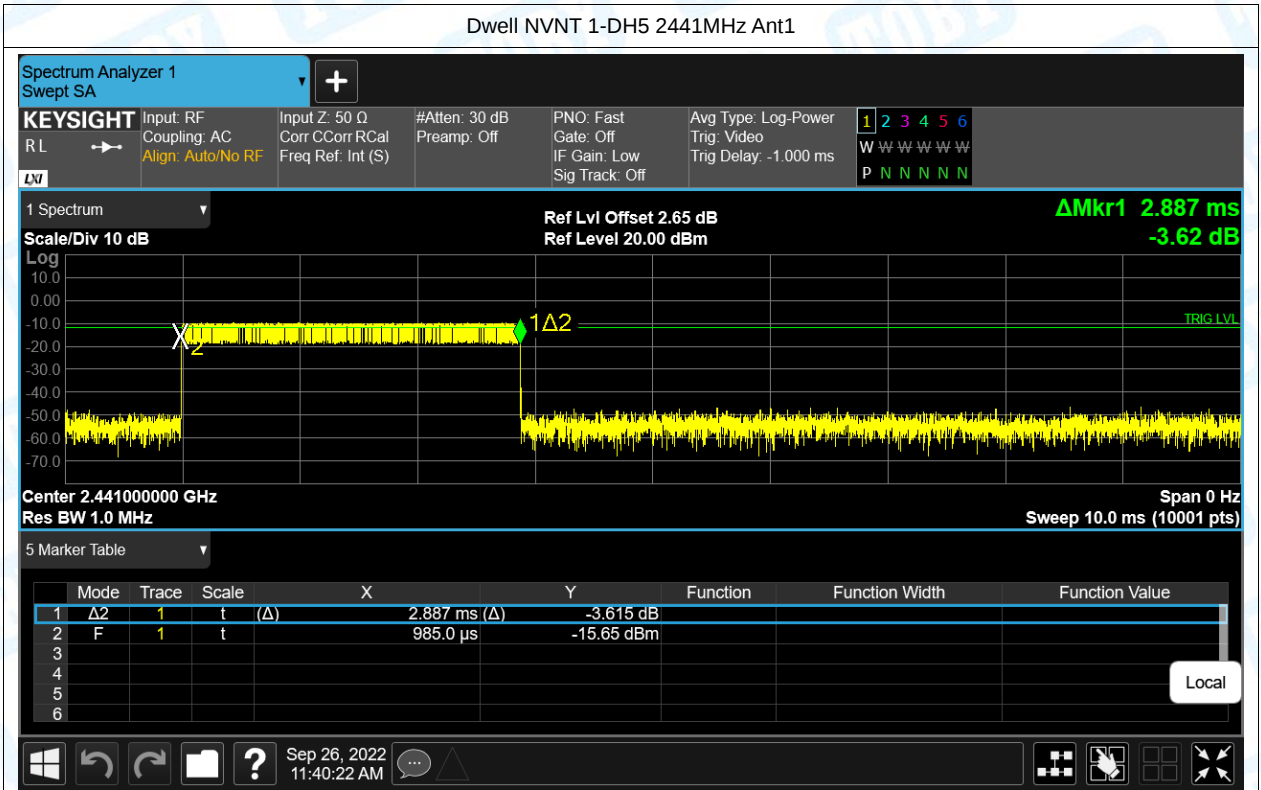
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

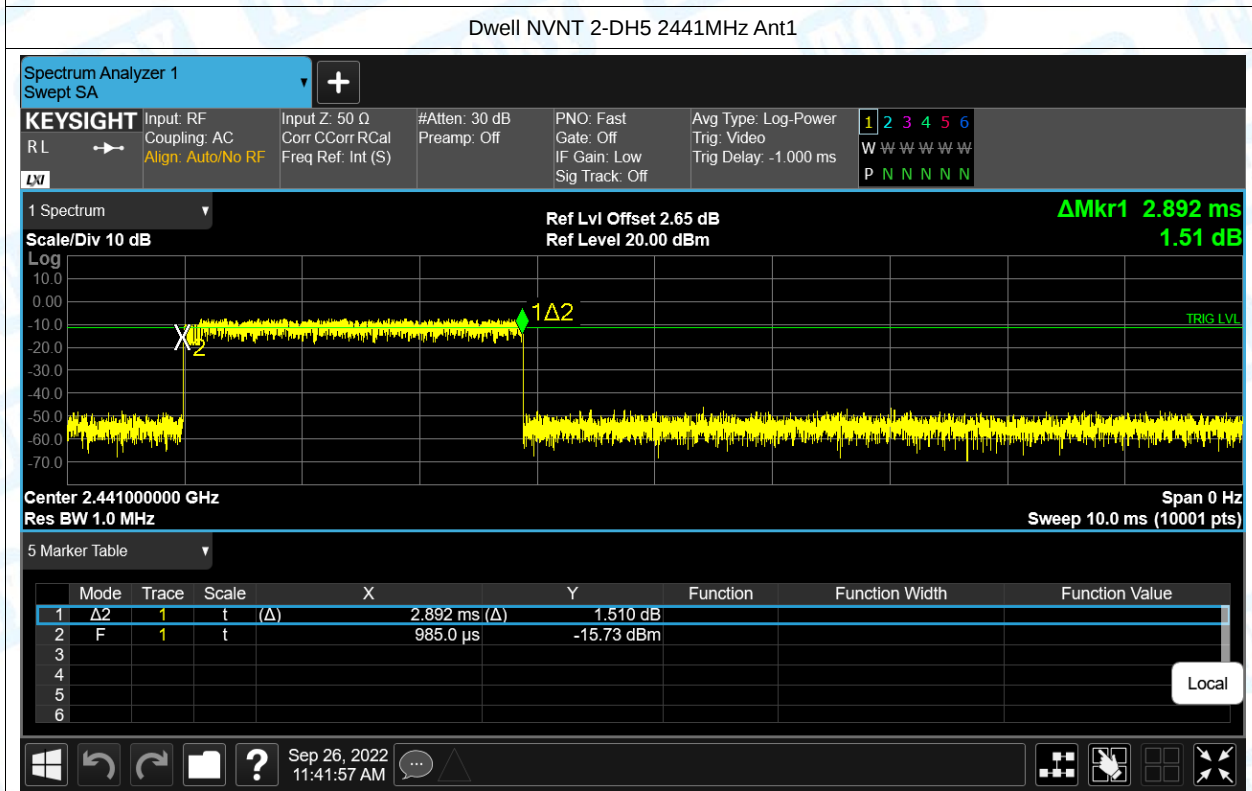
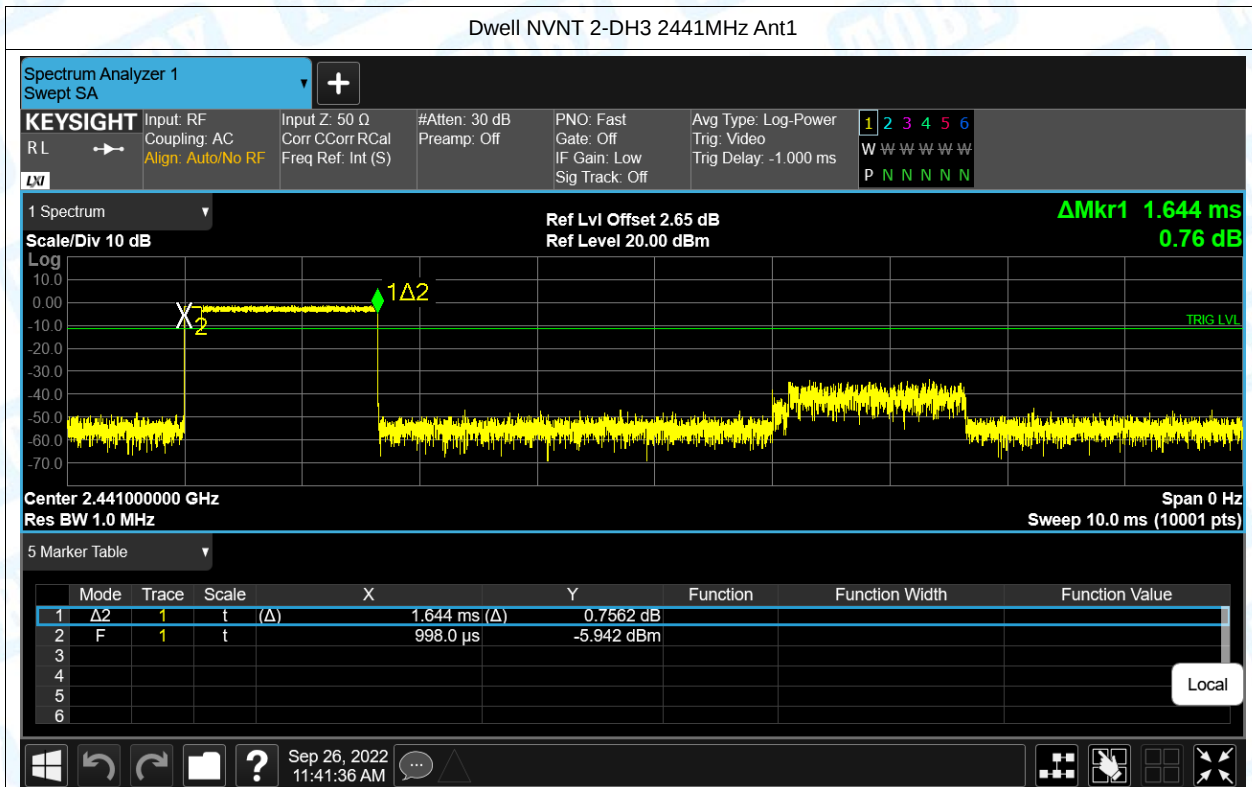


11. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	308.48	31600	400	Pass







-----END OF THE REPORT-----