

RF Test Data for Bluetooth(BDR+EDR)

(Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	Tablet Lite 3.0
Sample ID:	RW-C-202209-0163-1-1#&RW-C-202209-0163-1-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Zhu Dian Yuan
Note: For a more detailed features description, please refer to the report TBR-C-202209-0163-21	

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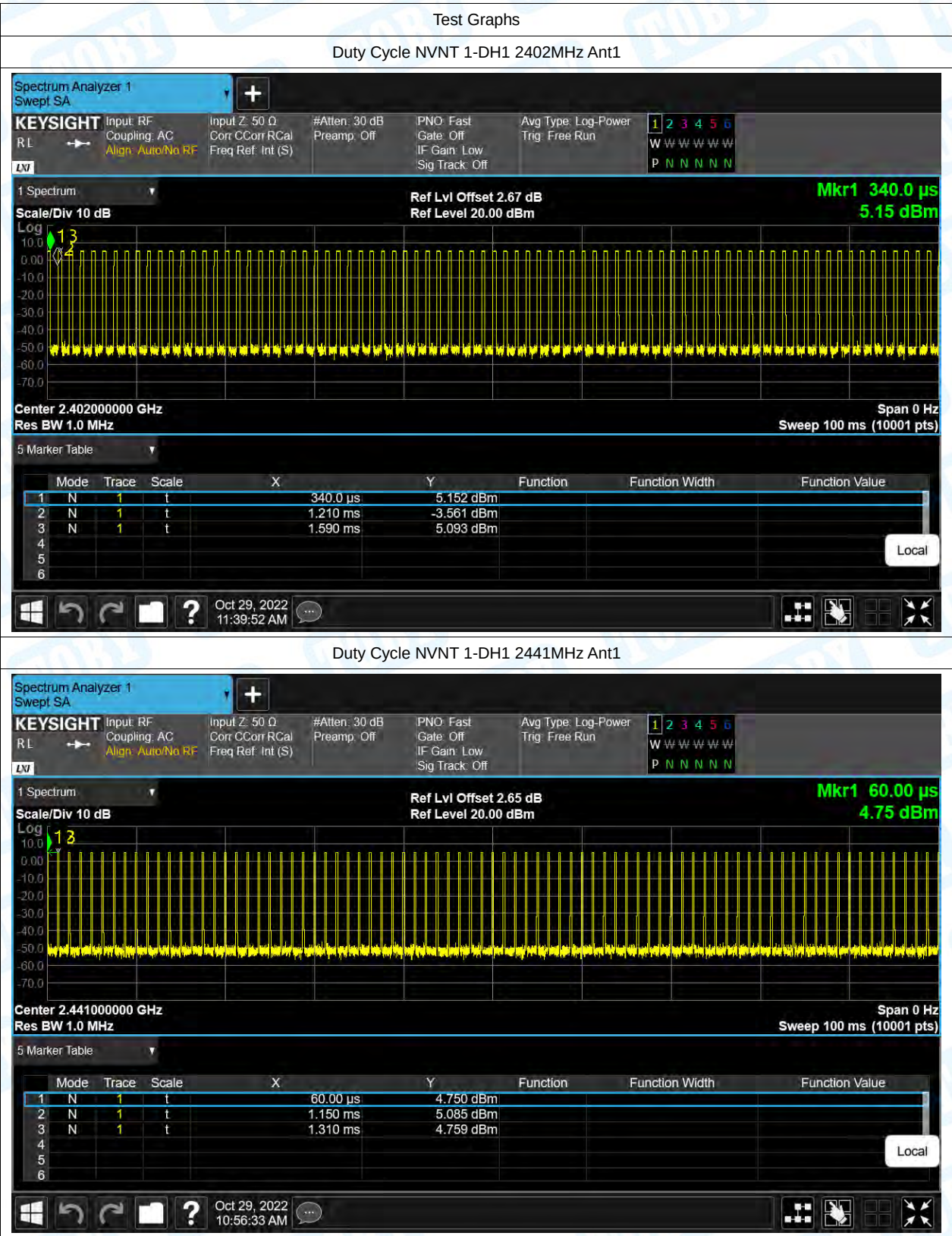
1. Duty Cycle

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	12.8	8.93	6.25
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

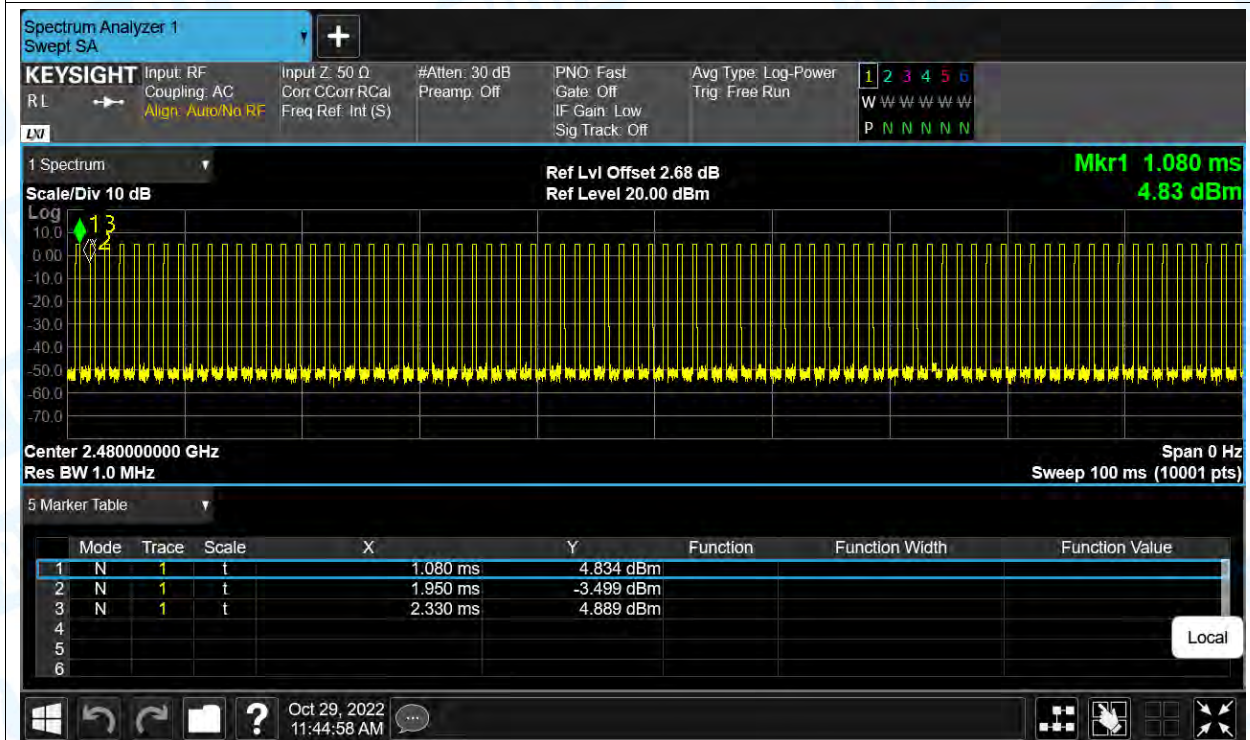
Note: $\text{Duty Cycle}(\%) = \text{ON}(\text{ms}) / (\text{ON}(\text{ms}) + \text{OFF}(\text{ms}))$

$\text{ON}(\text{ms}) = \text{Maker3} - \text{Maker2}$

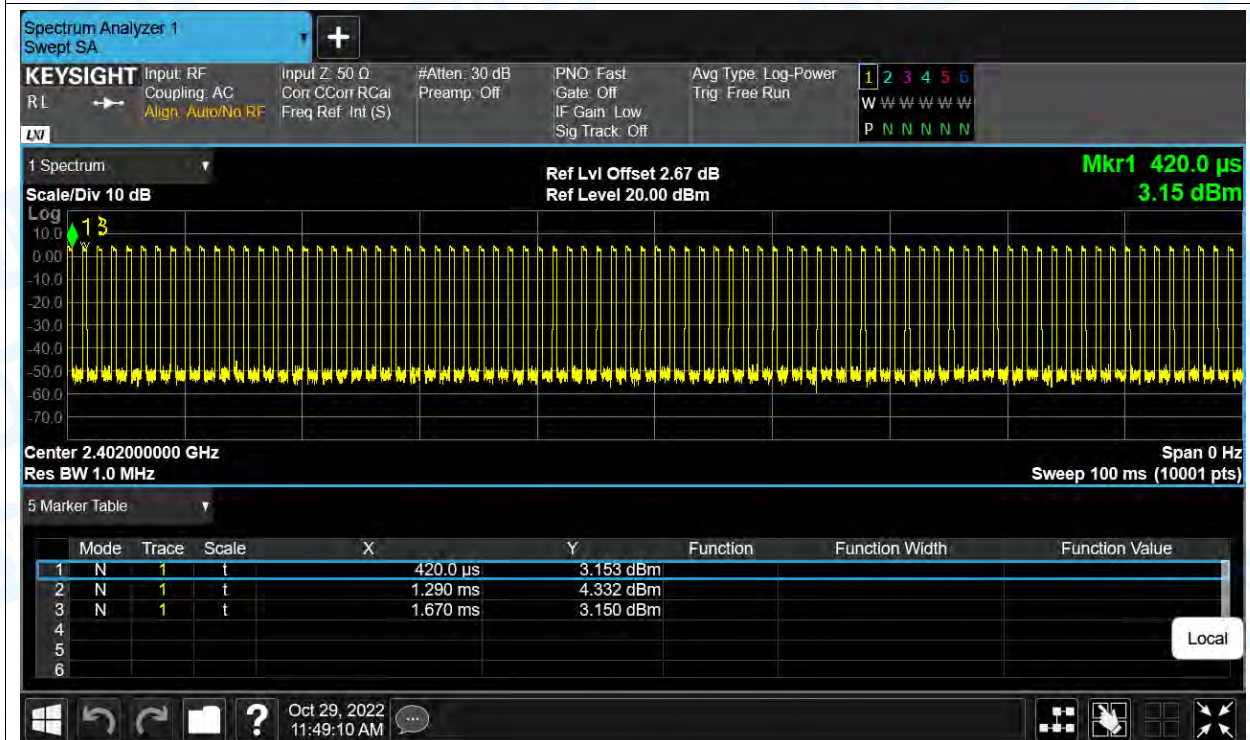
$(\text{ON}(\text{ms}) + \text{OFF}(\text{ms})) = \text{Maker3} - \text{Maker1}$

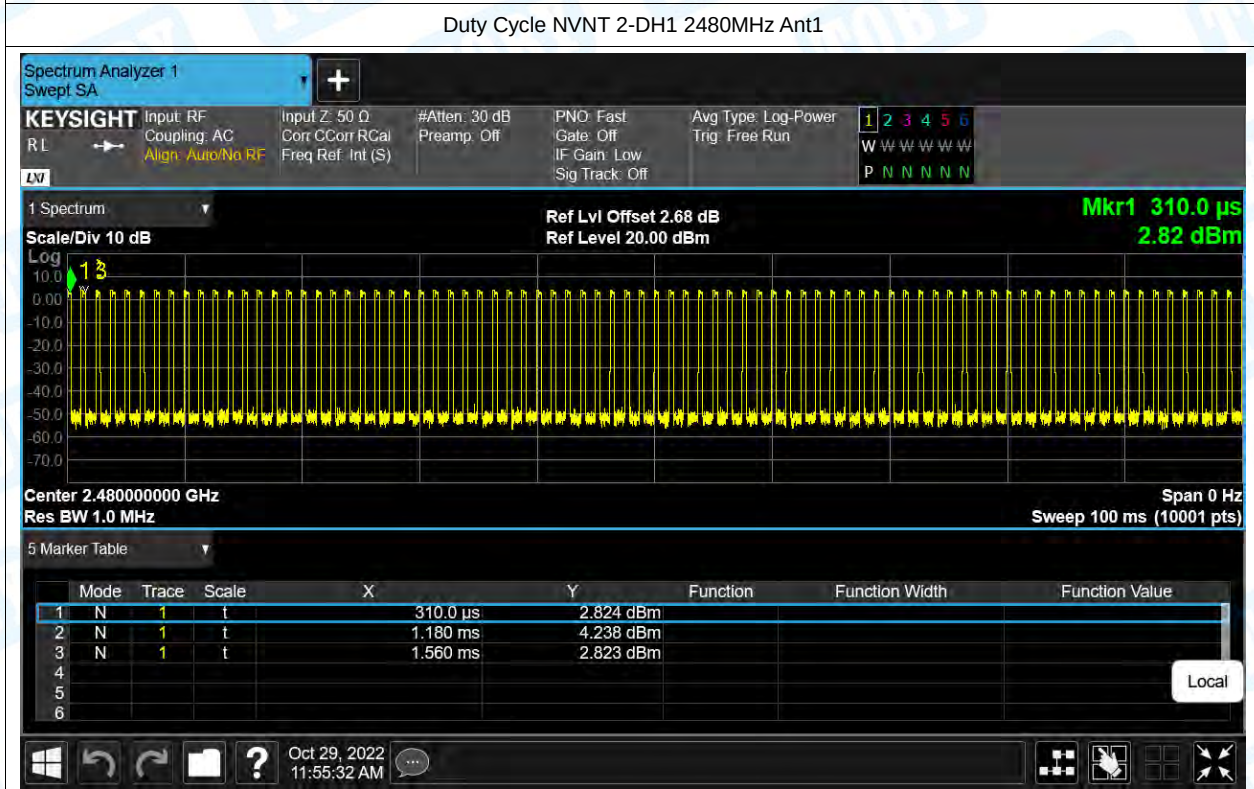
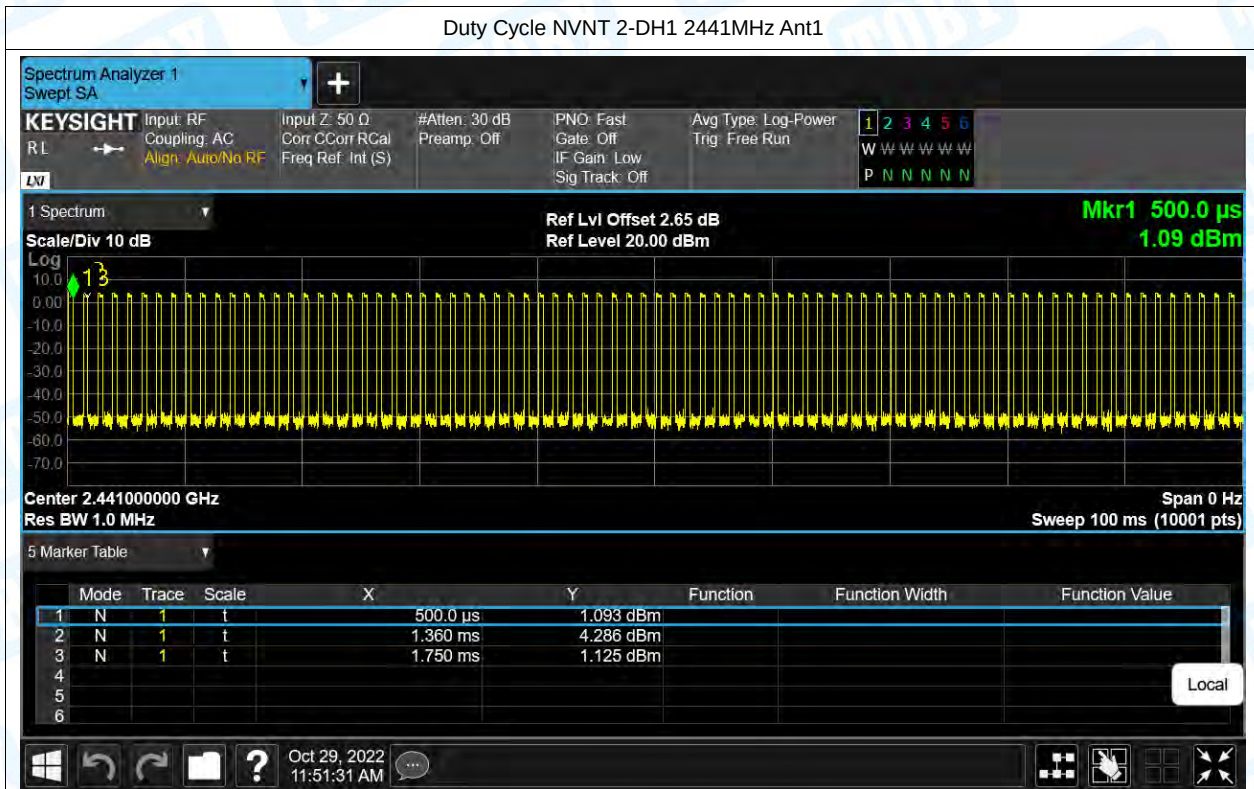


Duty Cycle NVNT 1-DH1 2480MHz Ant1

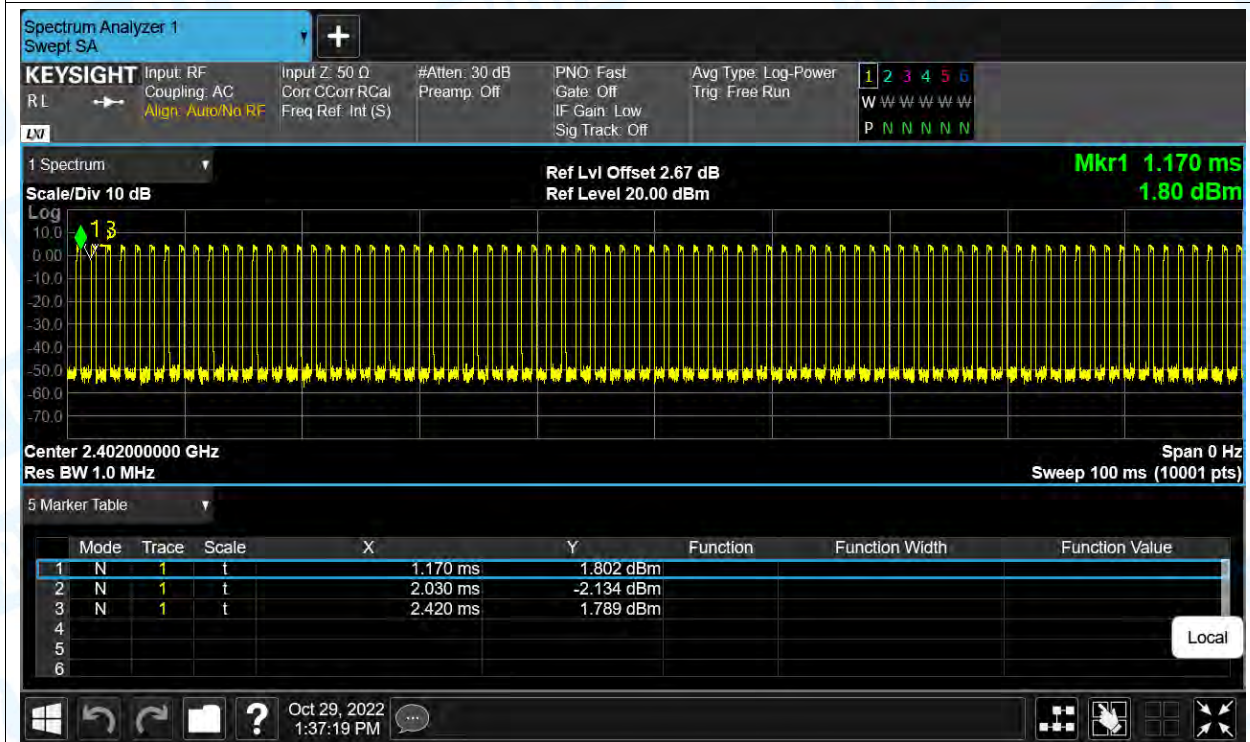


Duty Cycle NVNT 2-DH1 2402MHz Ant1

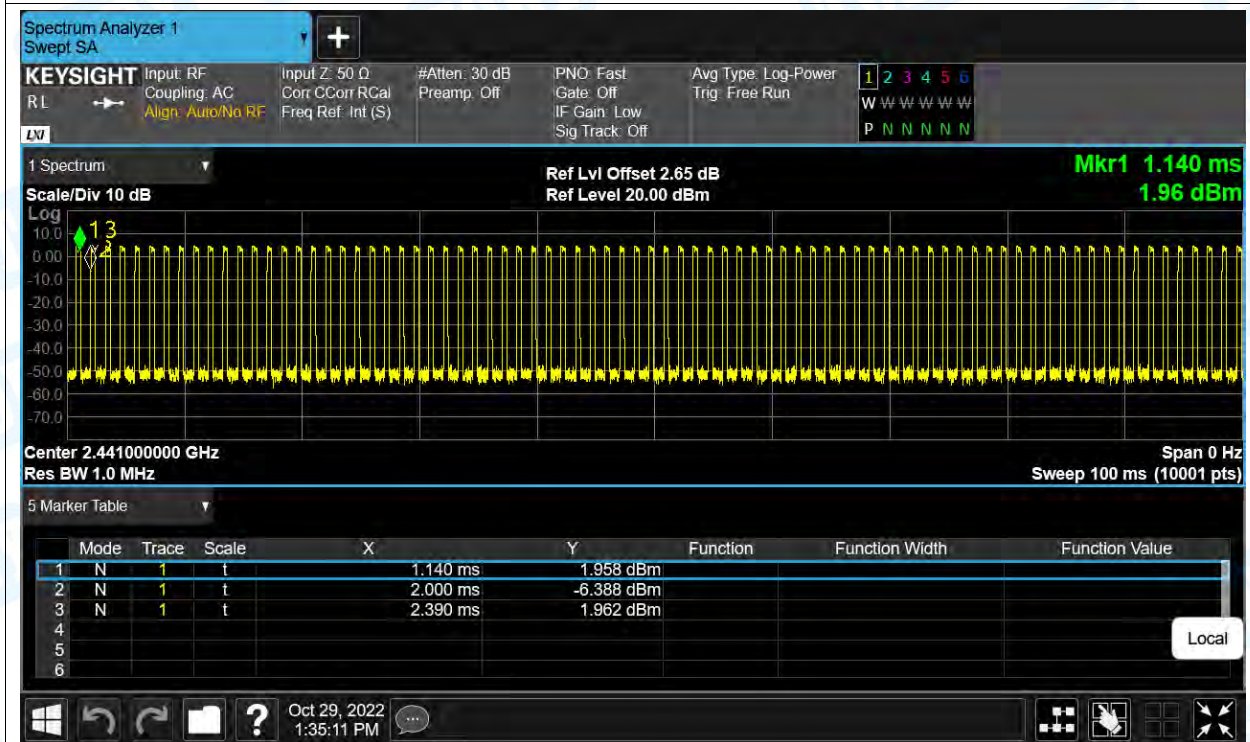


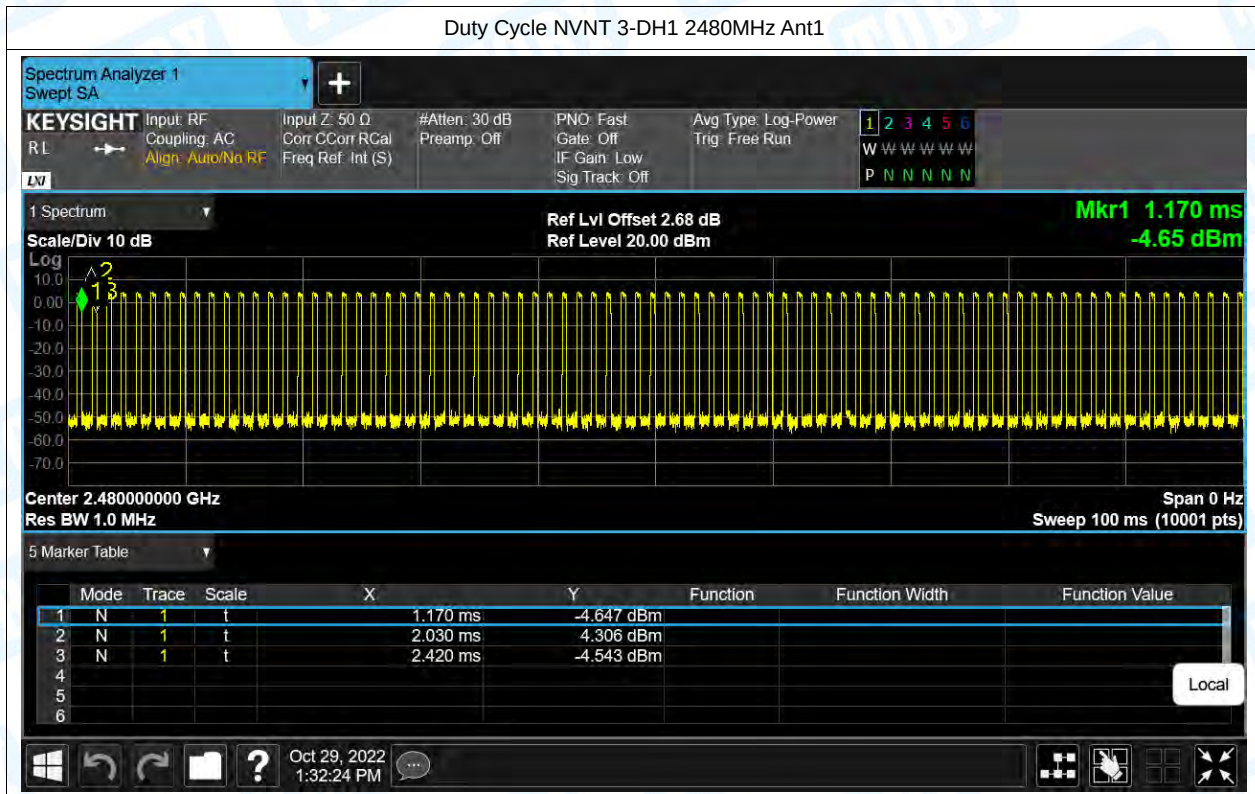


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1





2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.28	21	Pass
NVNT	1-DH1	2441	Ant1	5.20	21	Pass
NVNT	1-DH1	2480	Ant1	5.00	21	Pass
NVNT	2-DH1	2402	Ant1	4.44	21	Pass
NVNT	2-DH1	2441	Ant1	4.41	21	Pass
NVNT	2-DH1	2480	Ant1	4.34	21	Pass
NVNT	3-DH1	2402	Ant1	4.57	21	Pass
NVNT	3-DH1	2441	Ant1	4.54	21	Pass
NVNT	3-DH1	2480	Ant1	4.43	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1

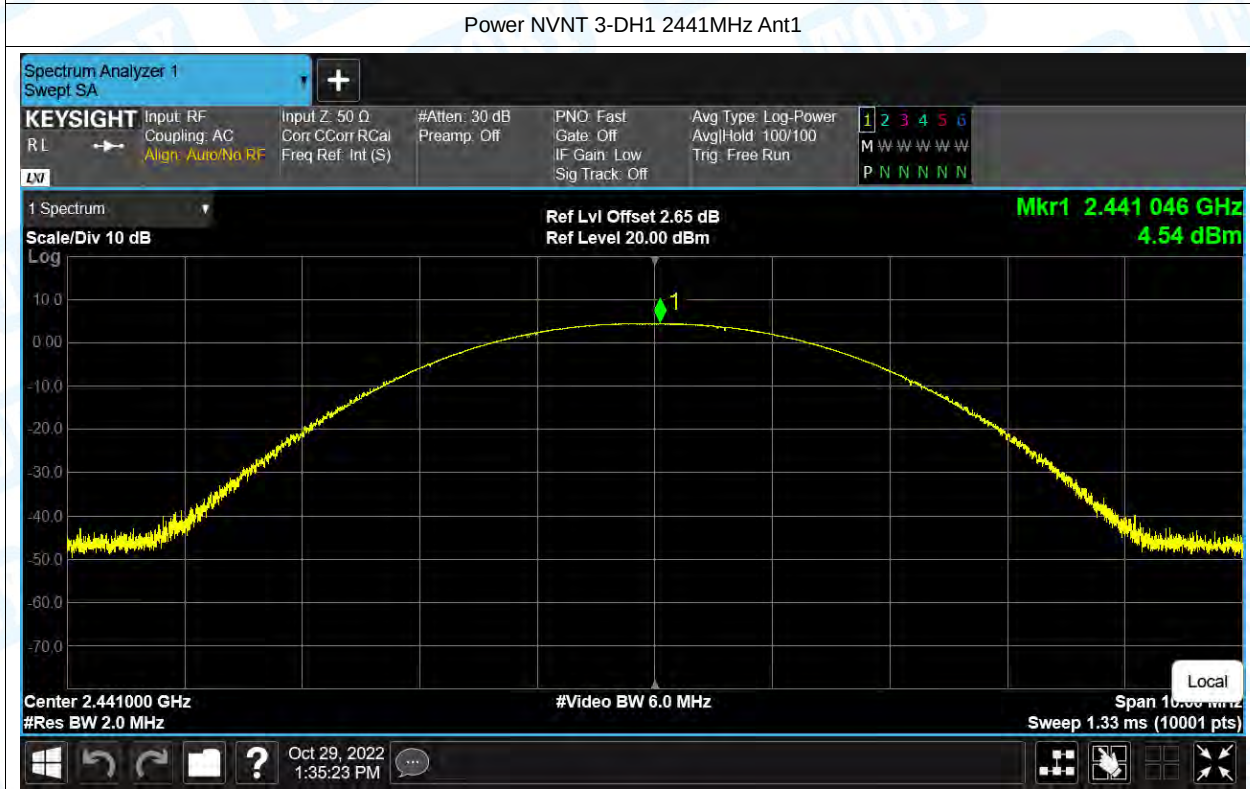
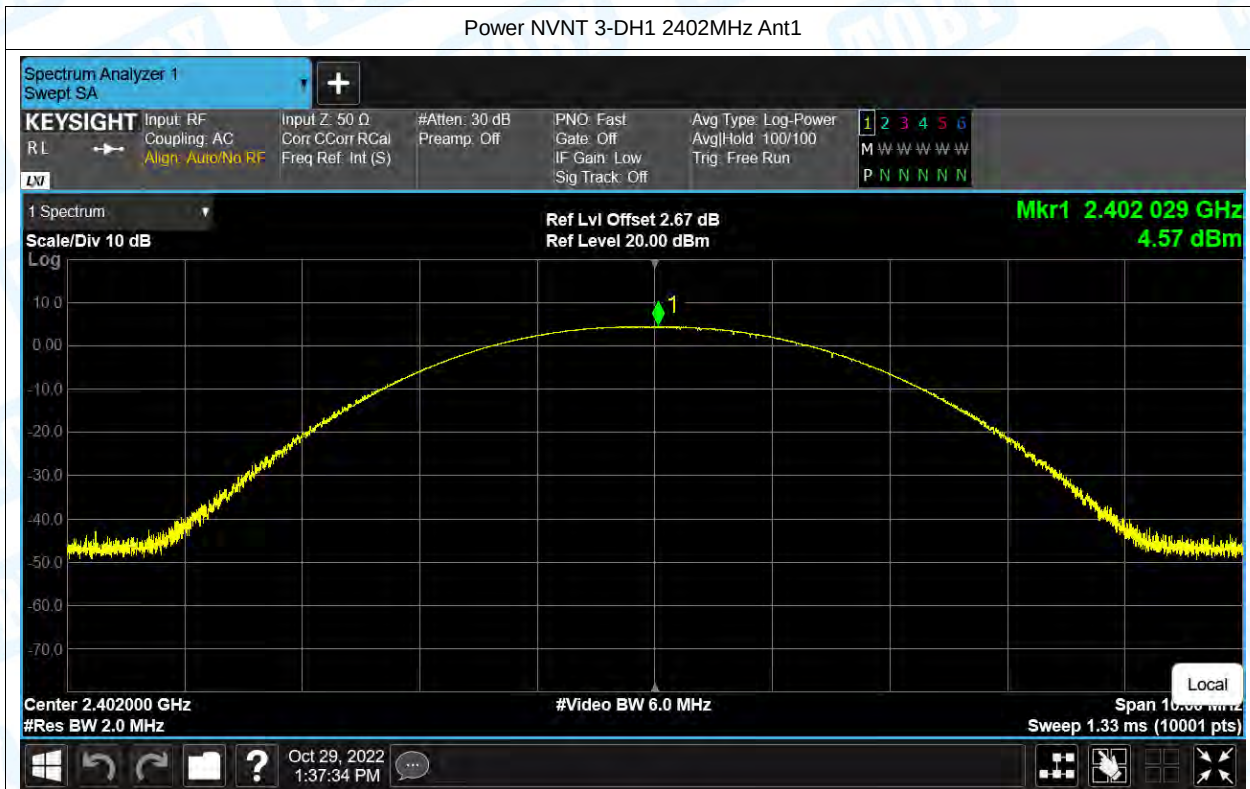


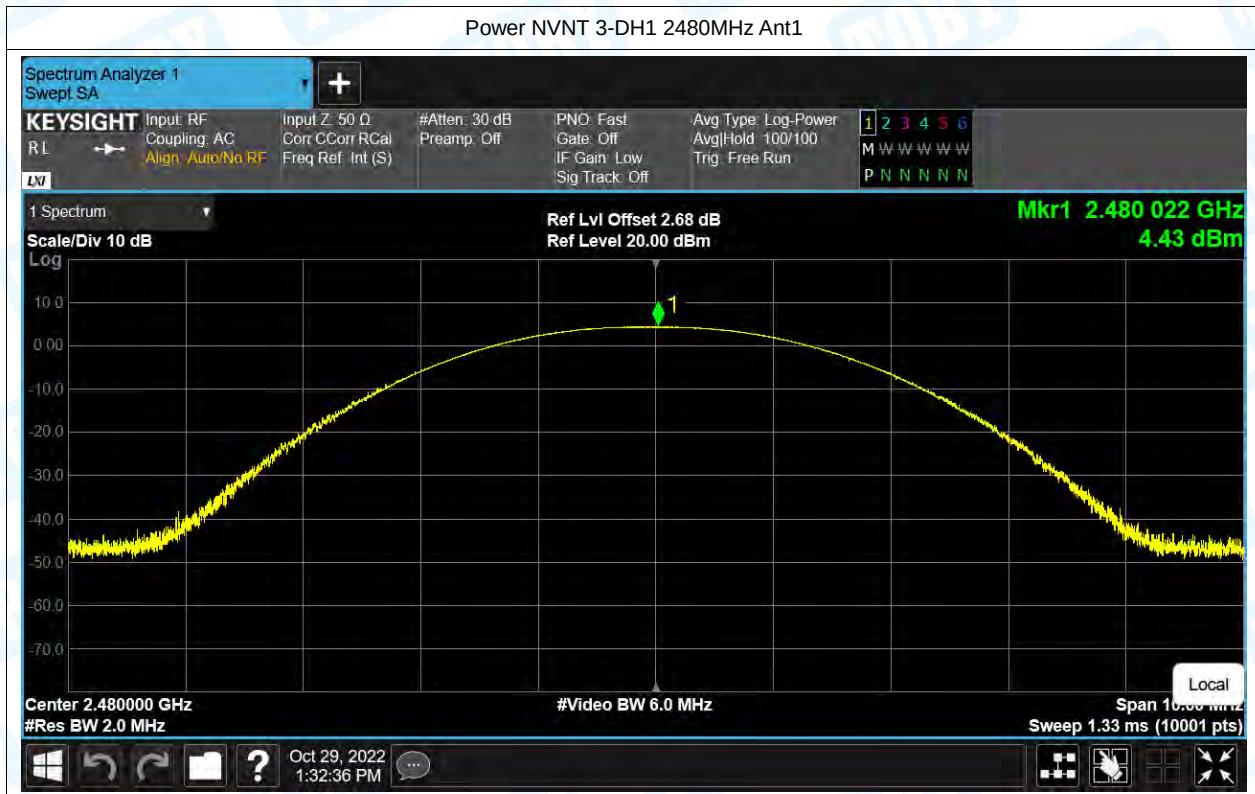
Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1







3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.83	----	Pass
NVNT	1-DH1	2441	Ant1	0.84	----	Pass
NVNT	1-DH1	2480	Ant1	0.78	----	Pass
NVNT	2-DH1	2402	Ant1	1.23	----	Pass
NVNT	2-DH1	2441	Ant1	1.2	----	Pass
NVNT	2-DH1	2480	Ant1	1.21	----	Pass
NVNT	3-DH1	2402	Ant1	1.22	----	Pass
NVNT	3-DH1	2441	Ant1	1.22	----	Pass
NVNT	3-DH1	2480	Ant1	1.22	----	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



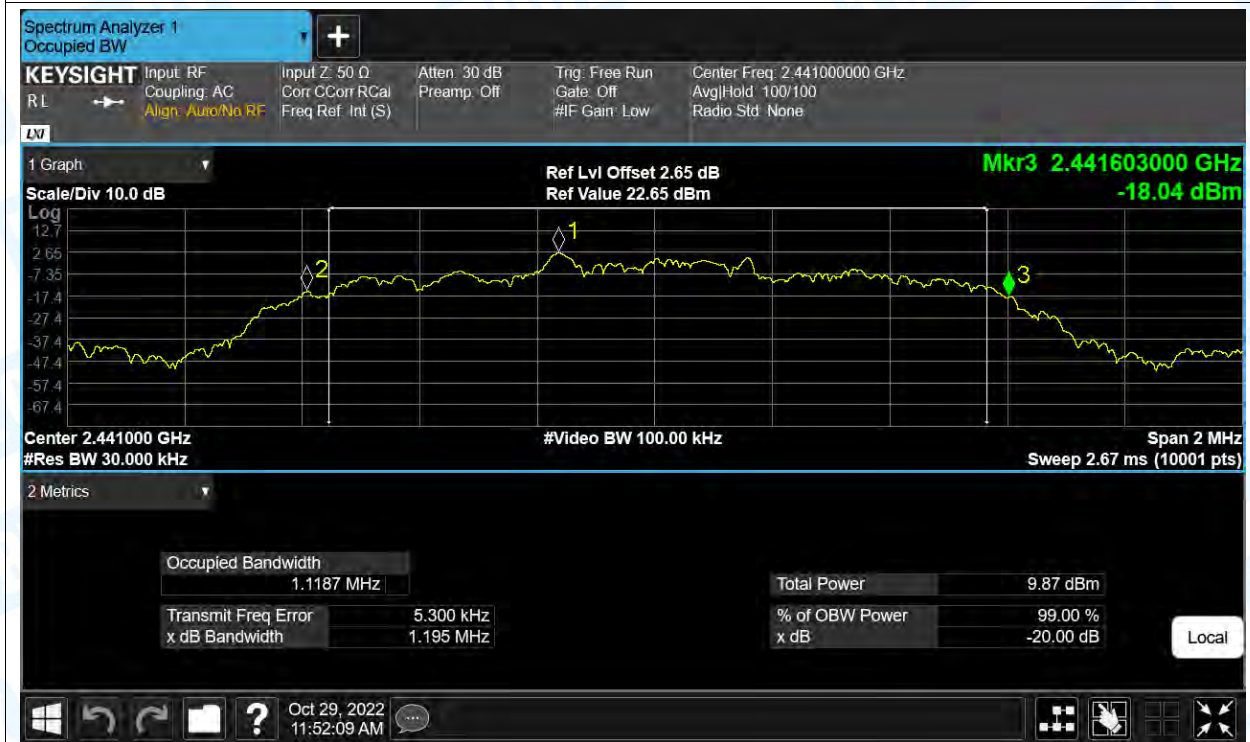
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



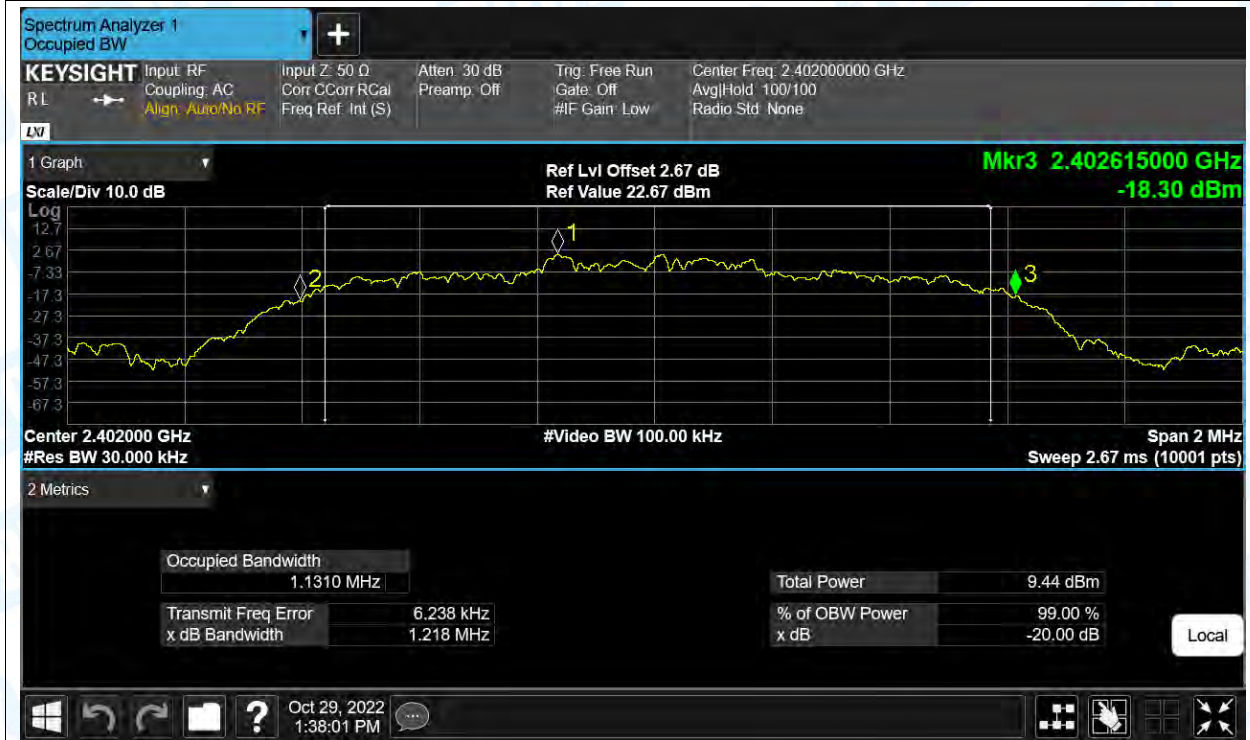
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

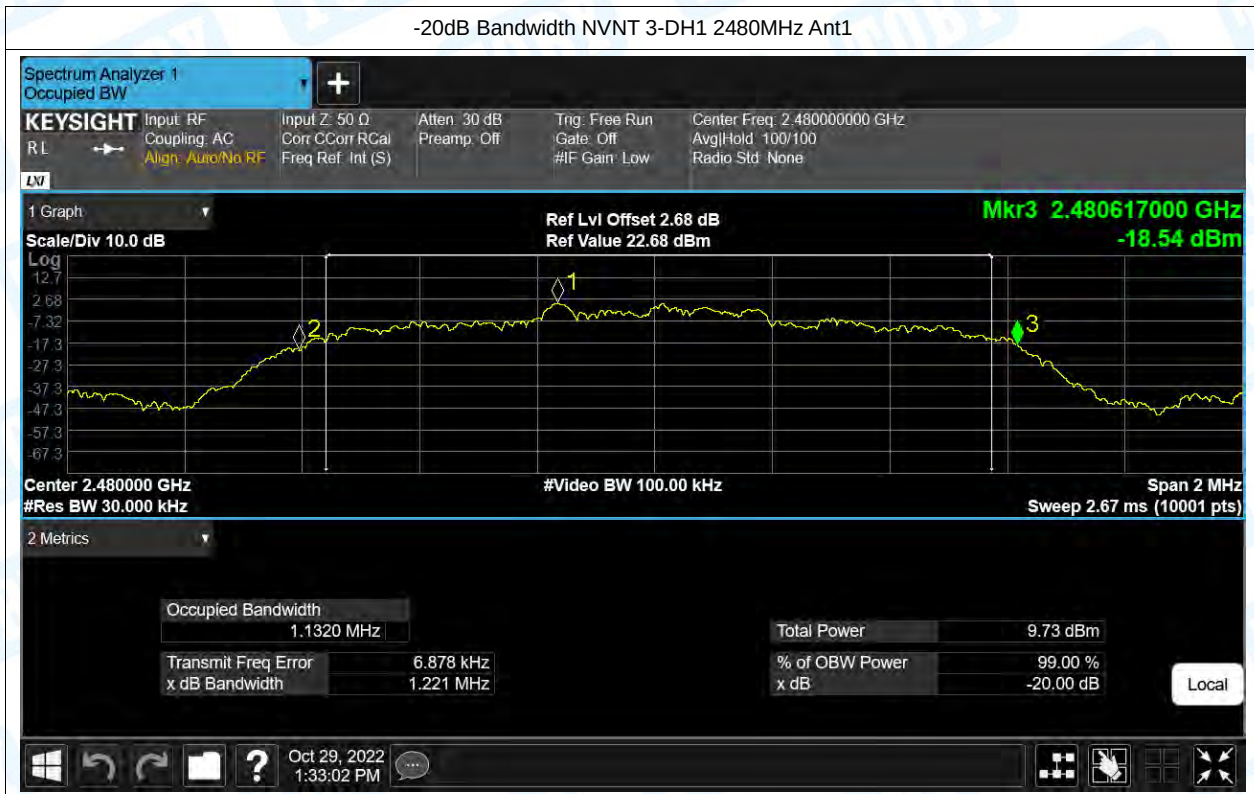


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



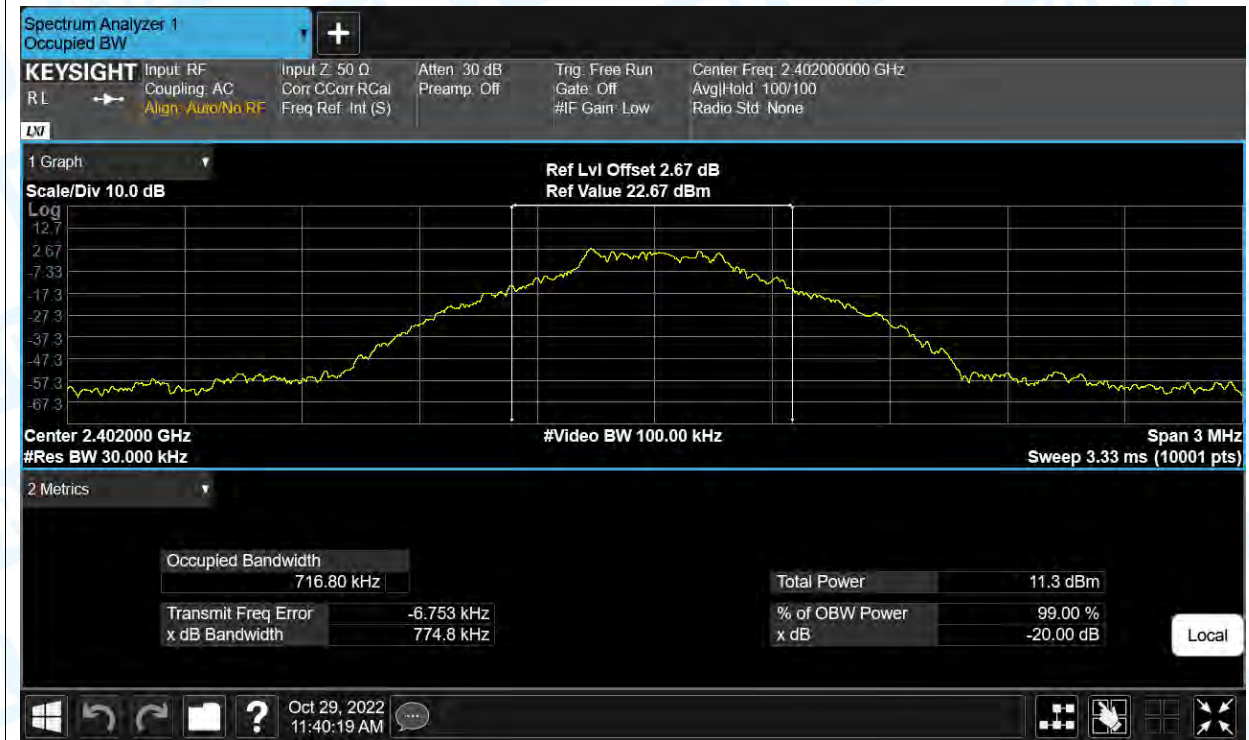


4. Occupied Channel Bandwidth

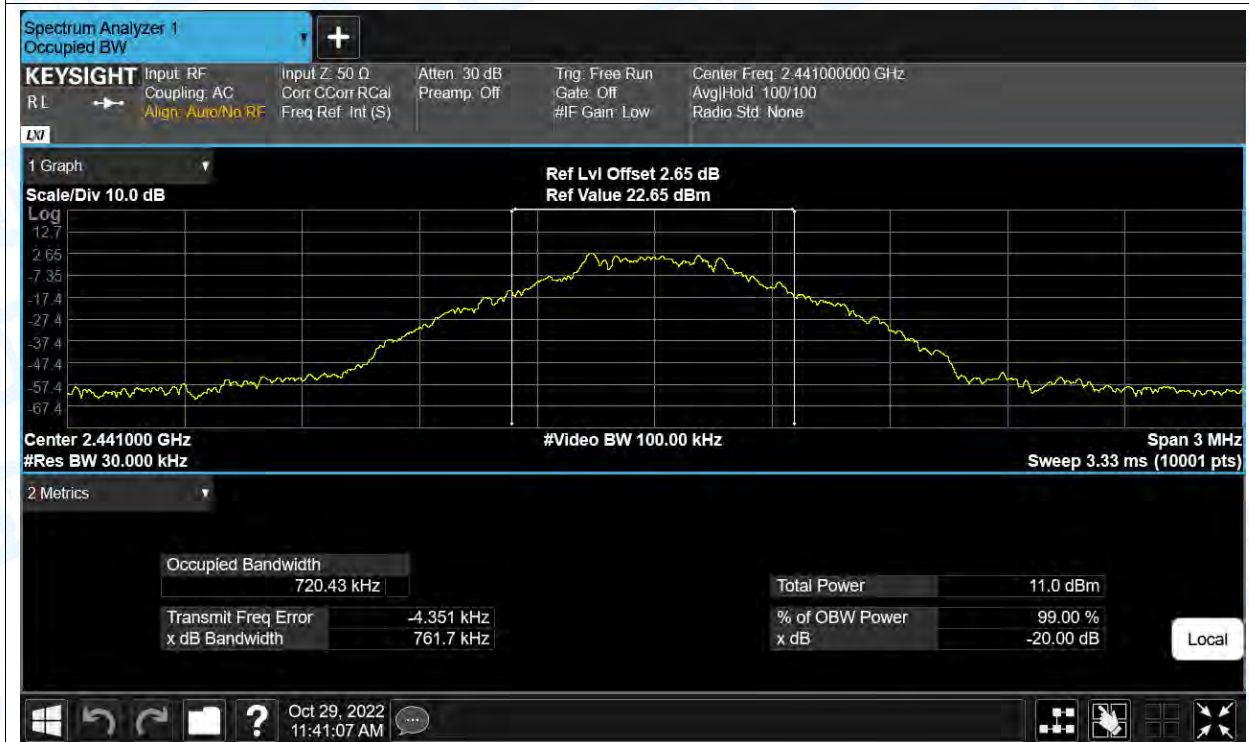
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.717
NVNT	1-DH1	2441	Ant1	0.72
NVNT	1-DH1	2480	Ant1	0.715
NVNT	2-DH1	2402	Ant1	1.138
NVNT	2-DH1	2441	Ant1	1.138
NVNT	2-DH1	2480	Ant1	1.139
NVNT	3-DH1	2402	Ant1	1.147
NVNT	3-DH1	2441	Ant1	1.132
NVNT	3-DH1	2480	Ant1	1.138

Test Graphs

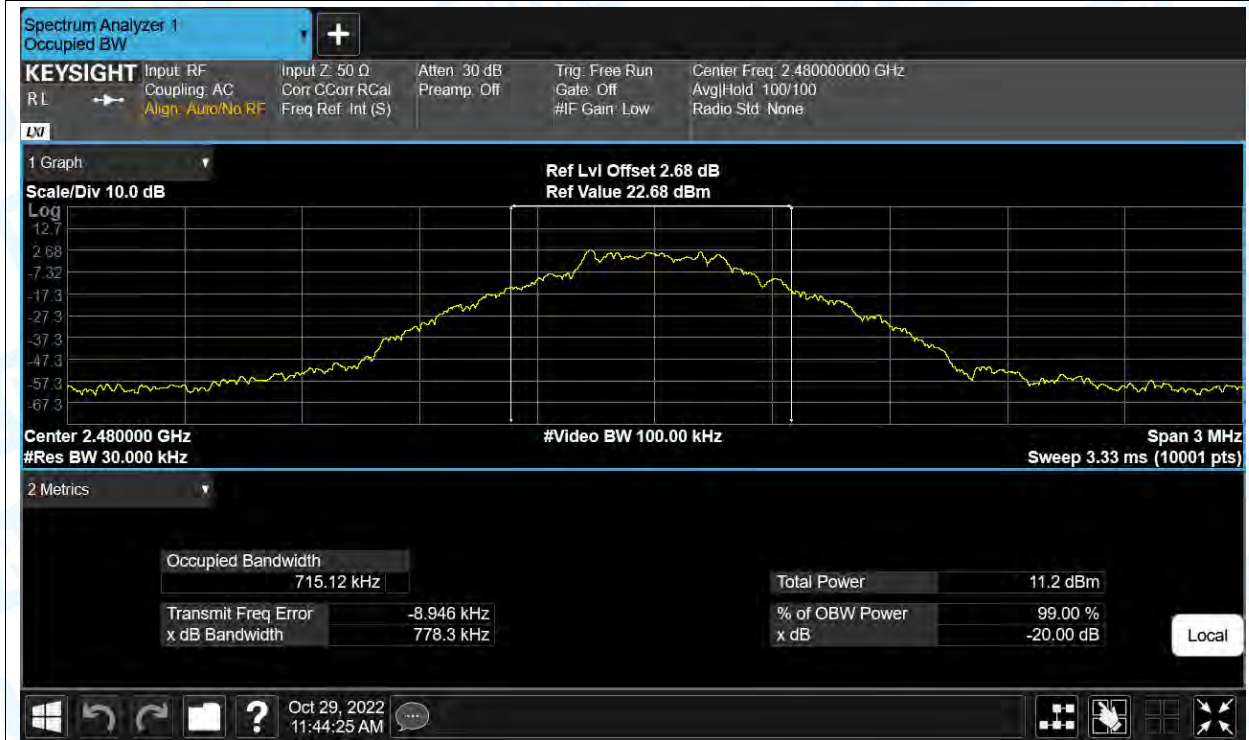
OBW NVNT 1-DH1 2402MHz Ant1



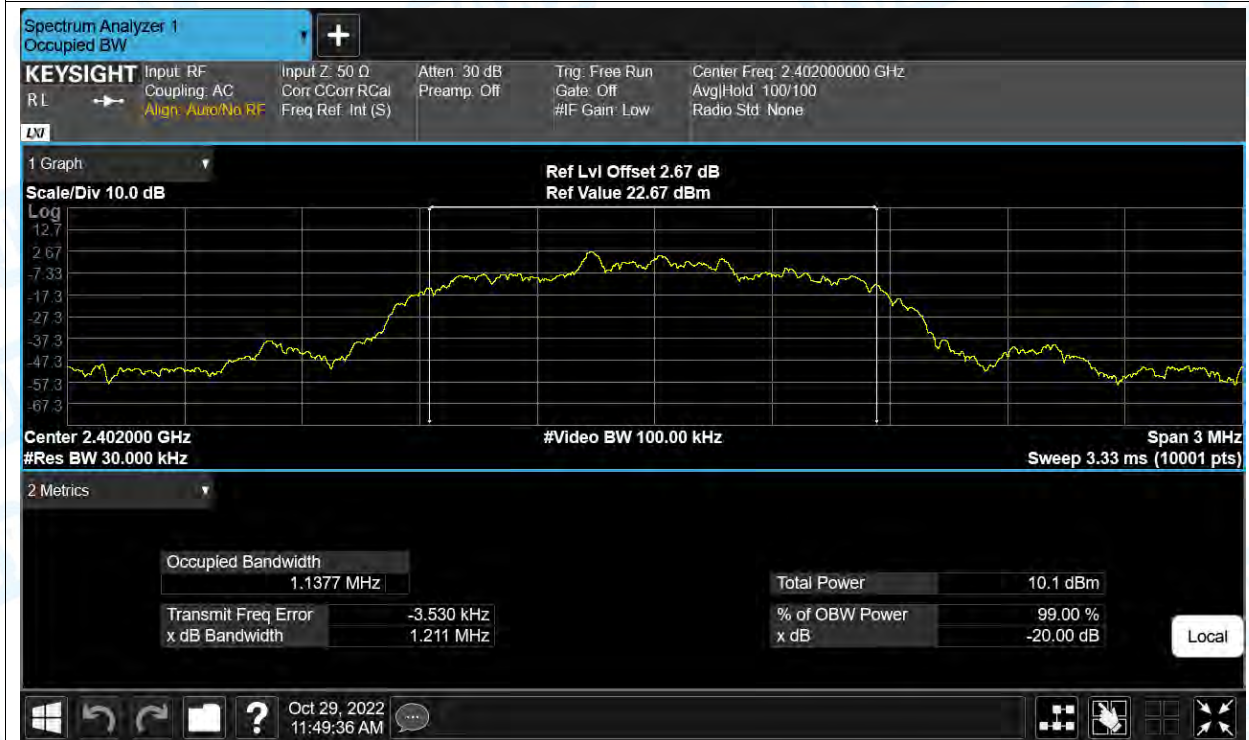
OBW NVNT 1-DH1 2441MHz Ant1



OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

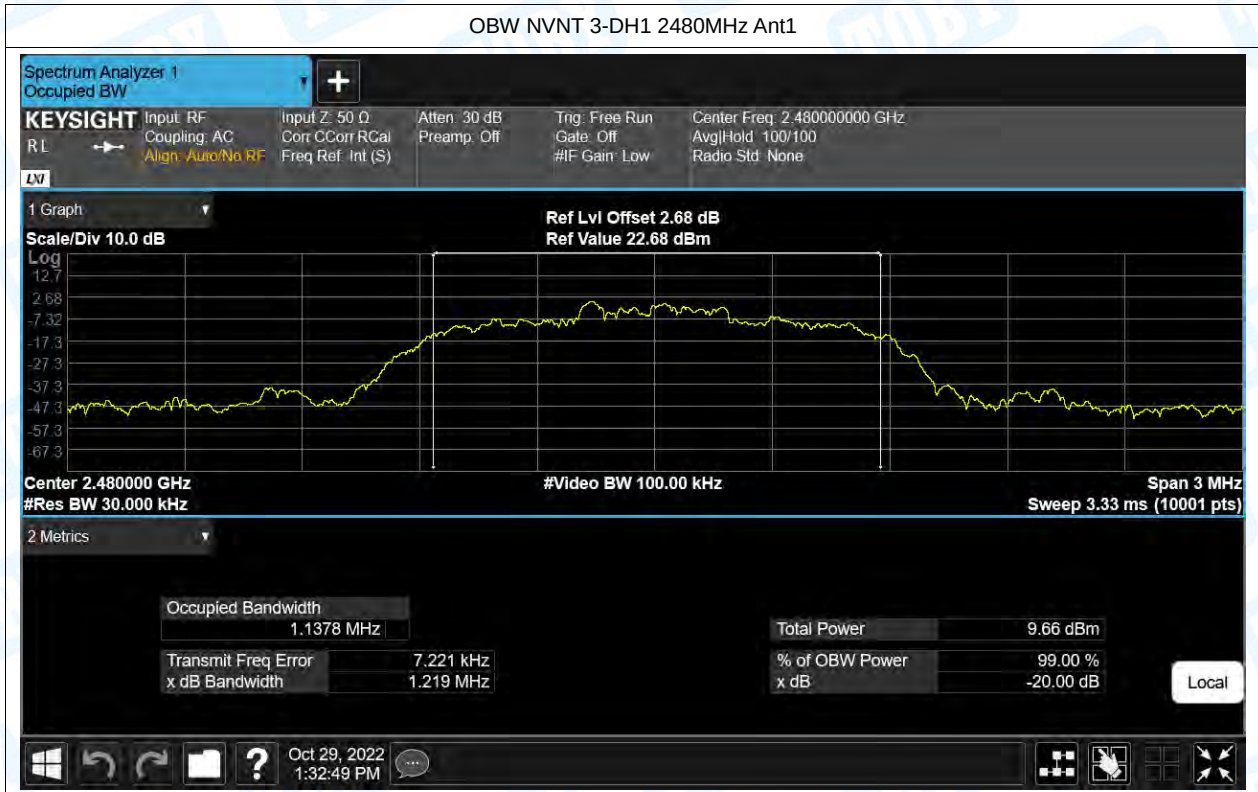


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



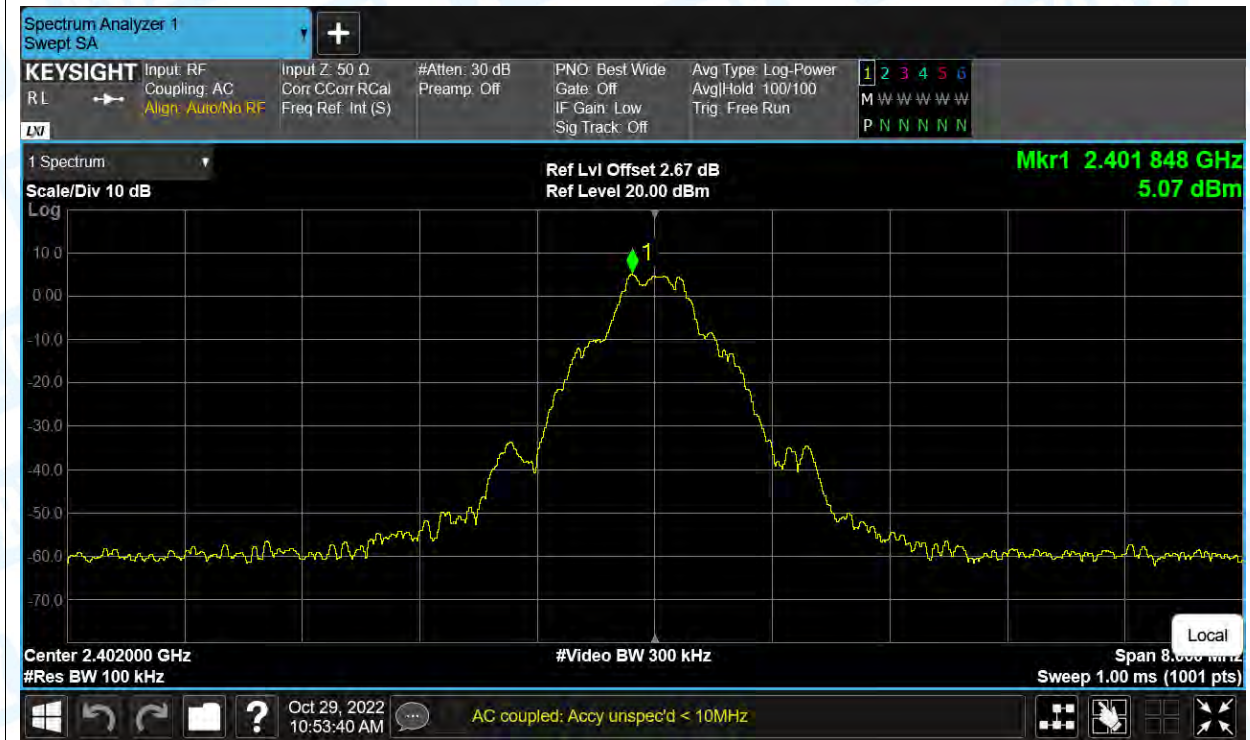


5. Band Edge

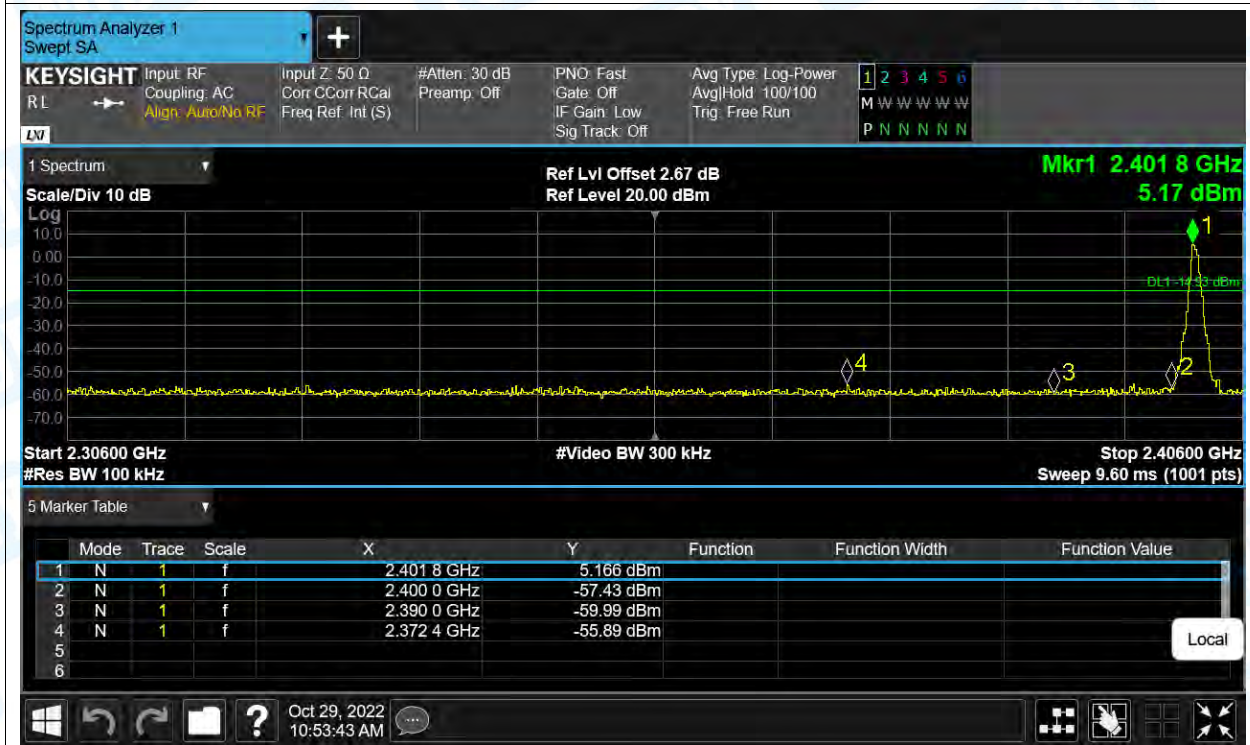
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-60.96	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-61.6	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-60.02	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-58.93	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-59.69	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-59.13	-20	Pass

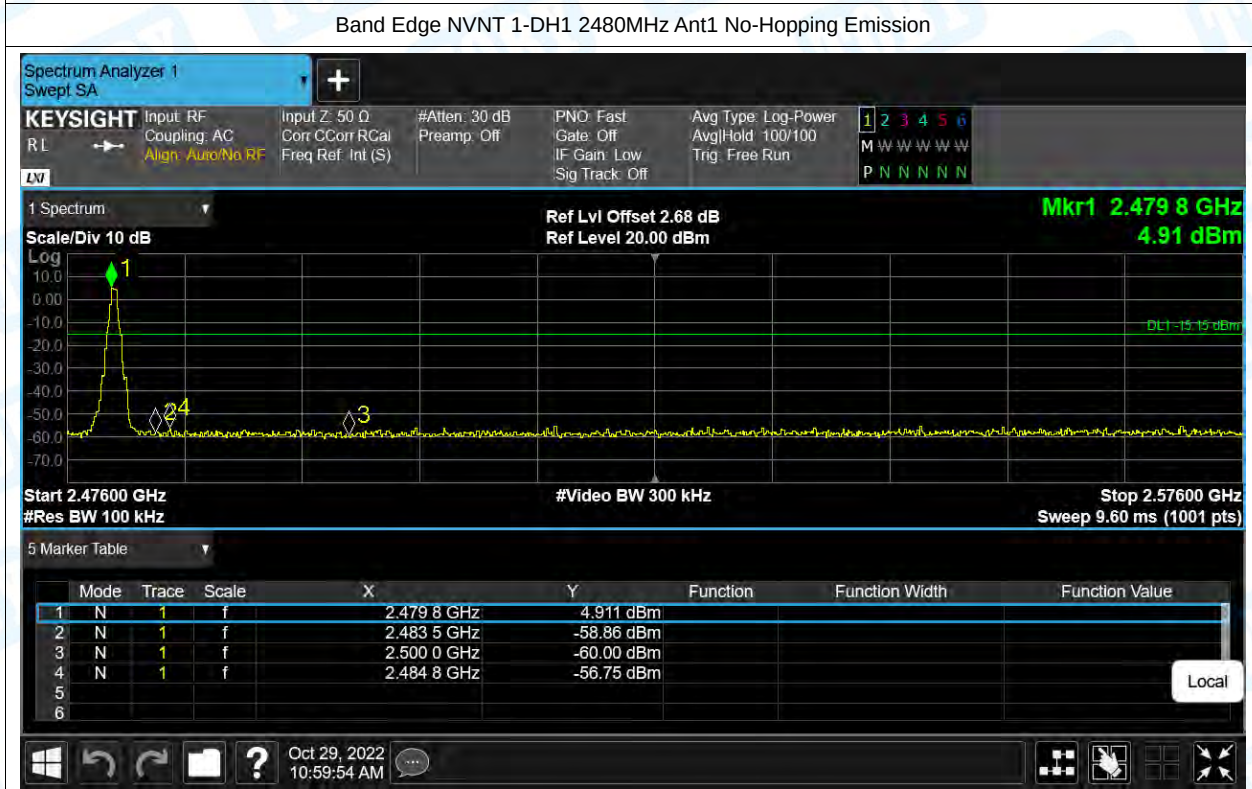
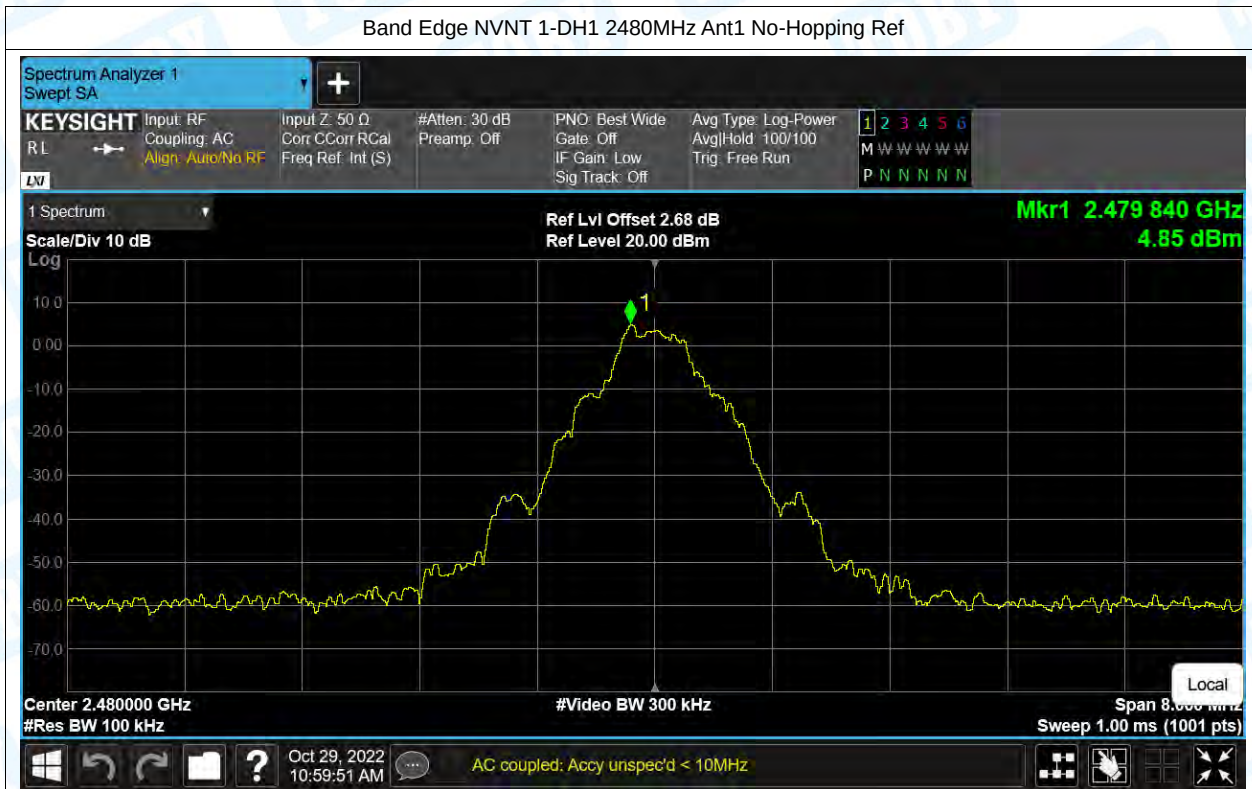
Test Graphs

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

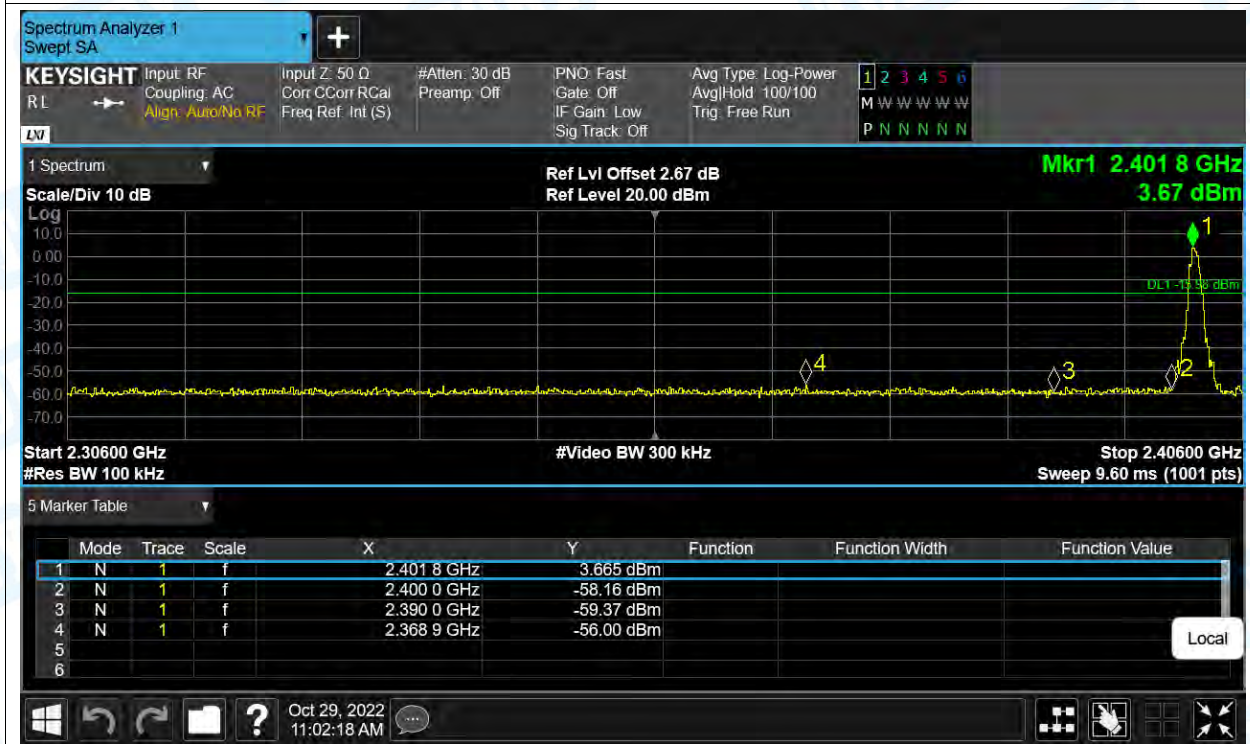




Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



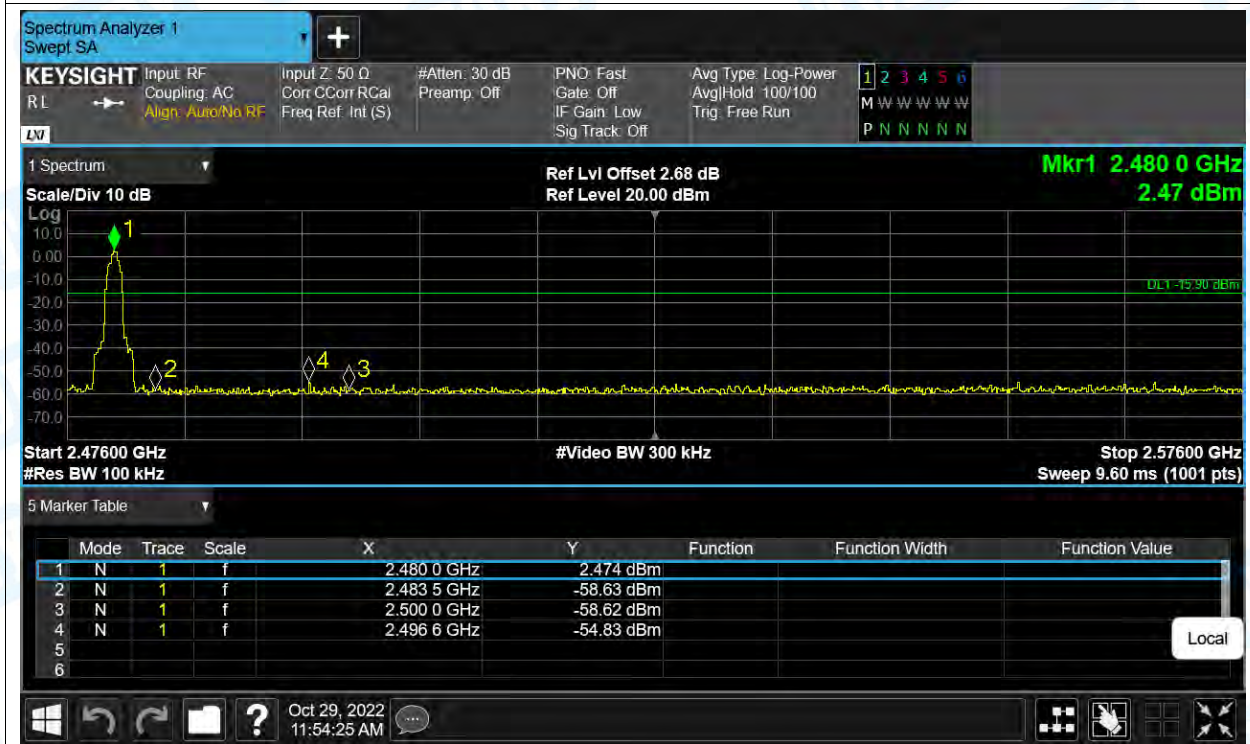
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

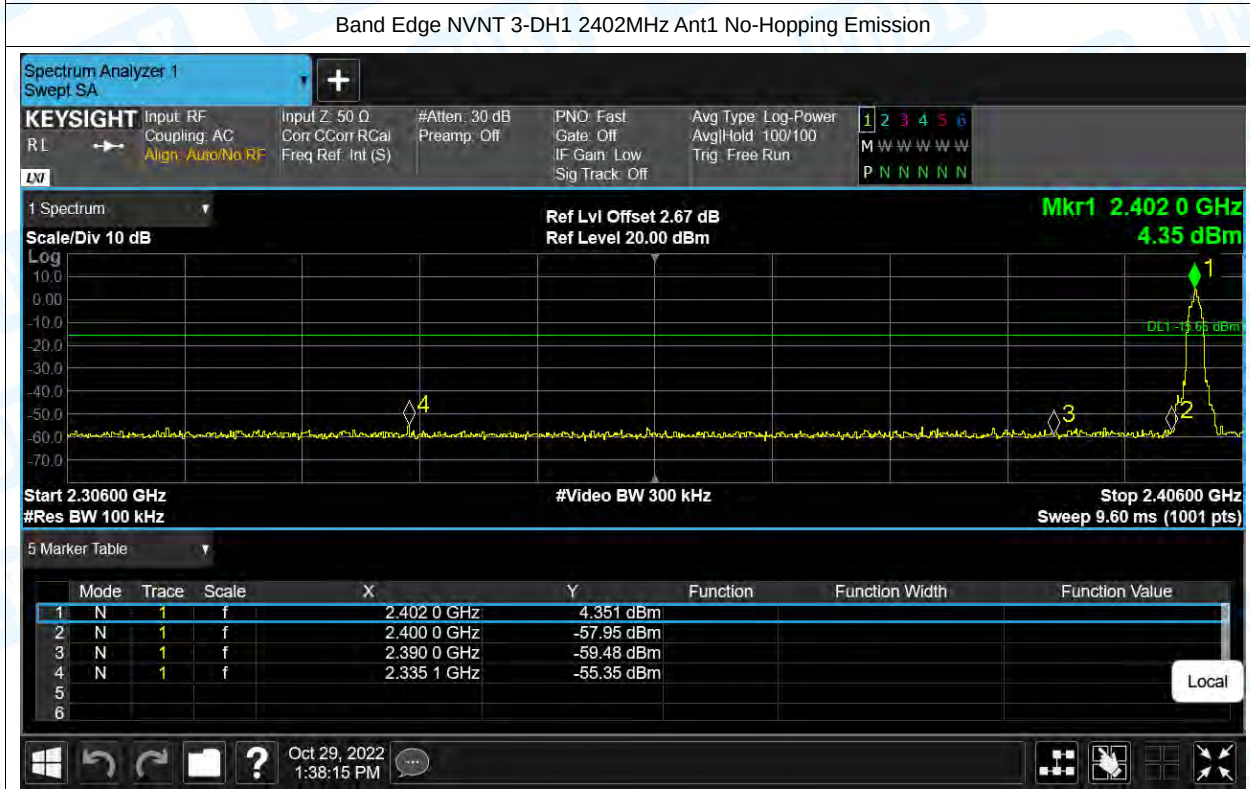
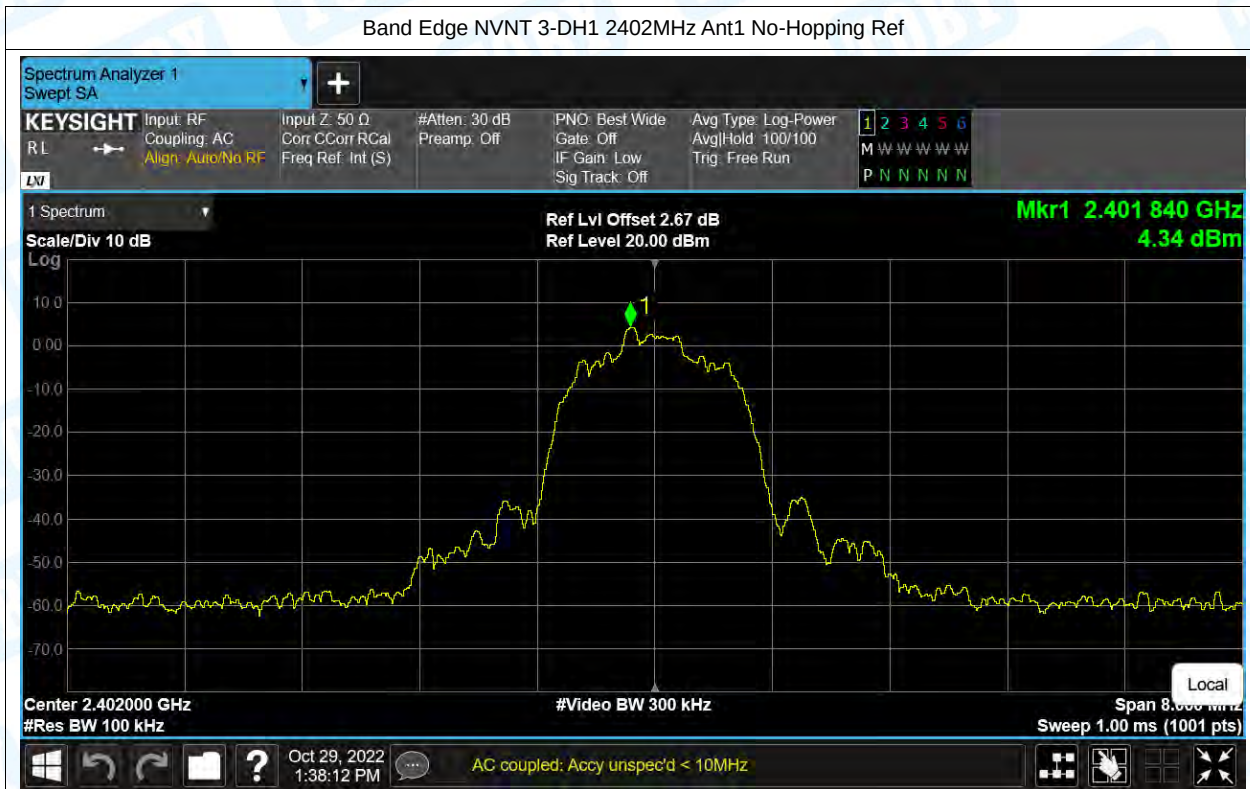


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

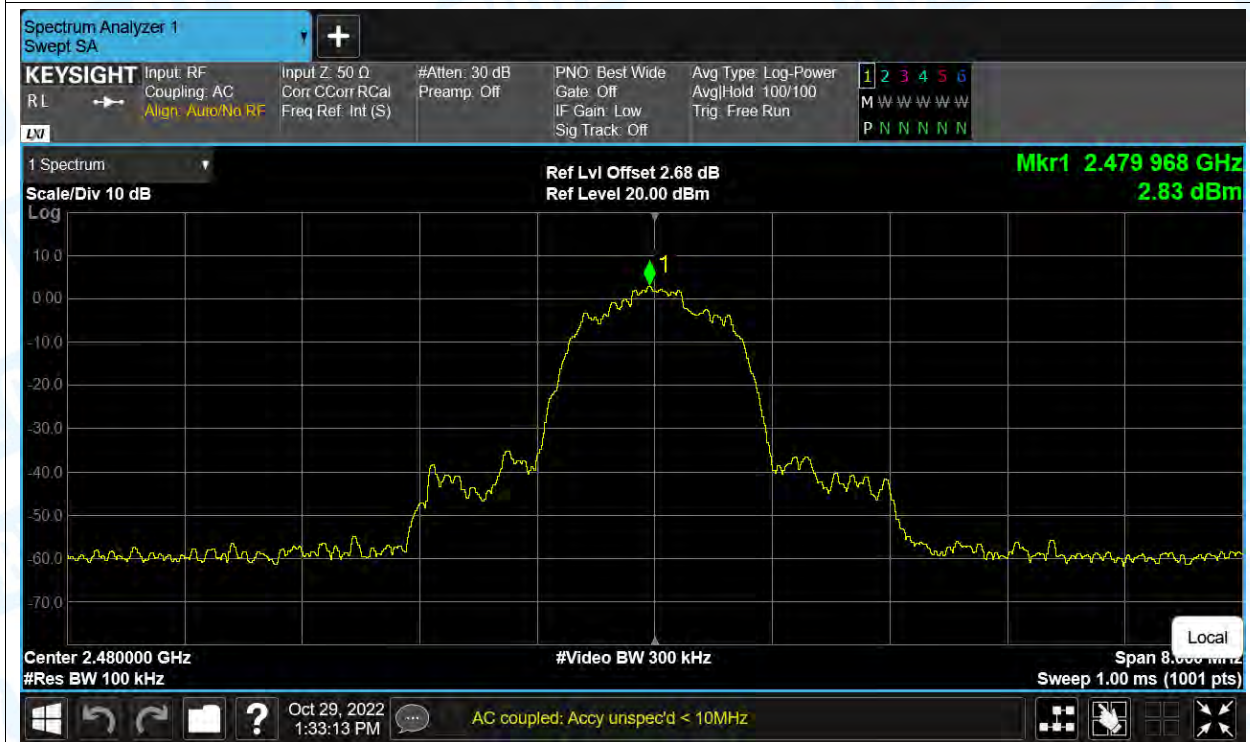


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

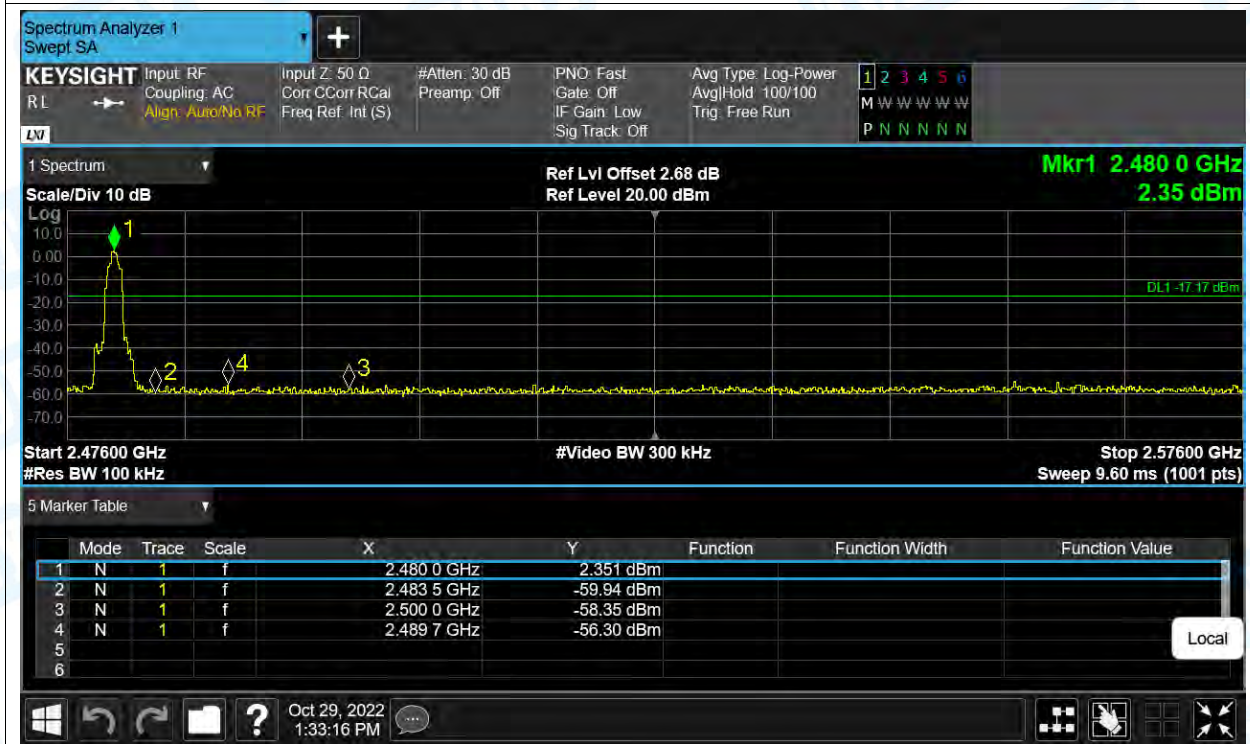




Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



6. Band Edge(Hopping)

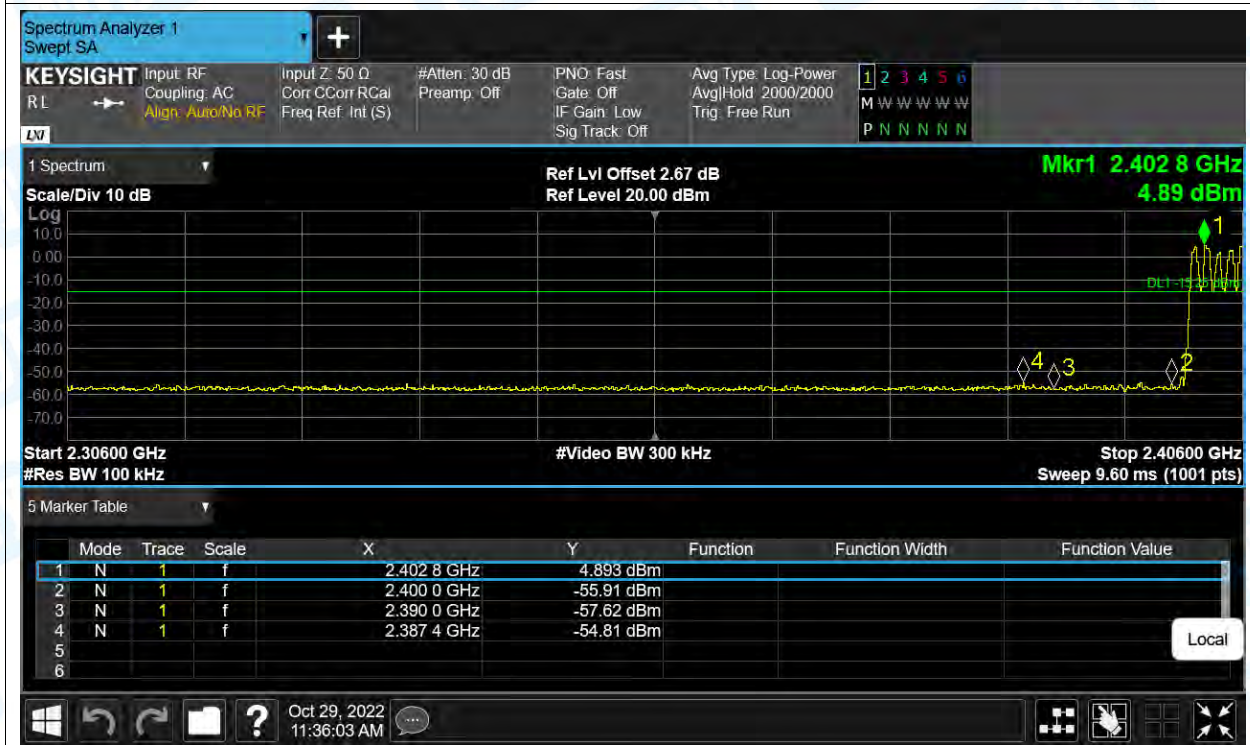
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-59.56	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-59.76	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.02	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-59.58	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-59.64	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-59.29	-20	Pass

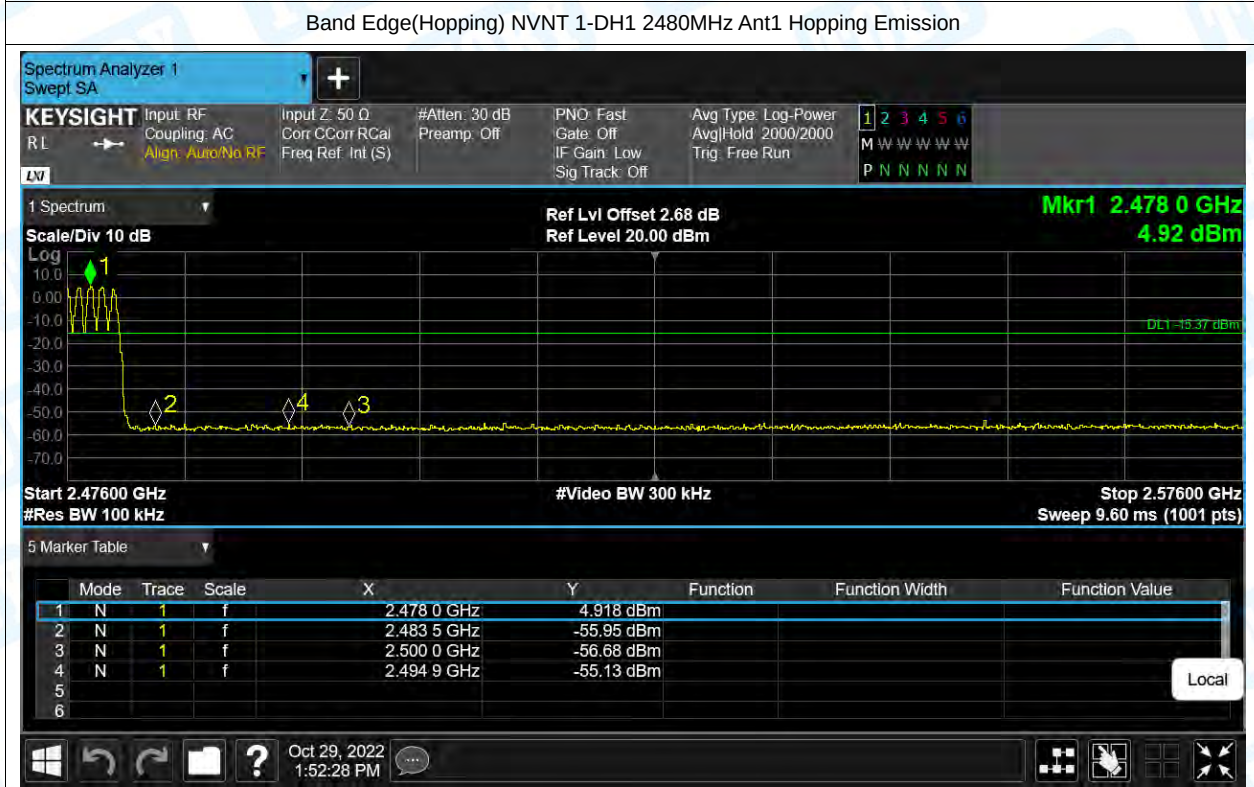
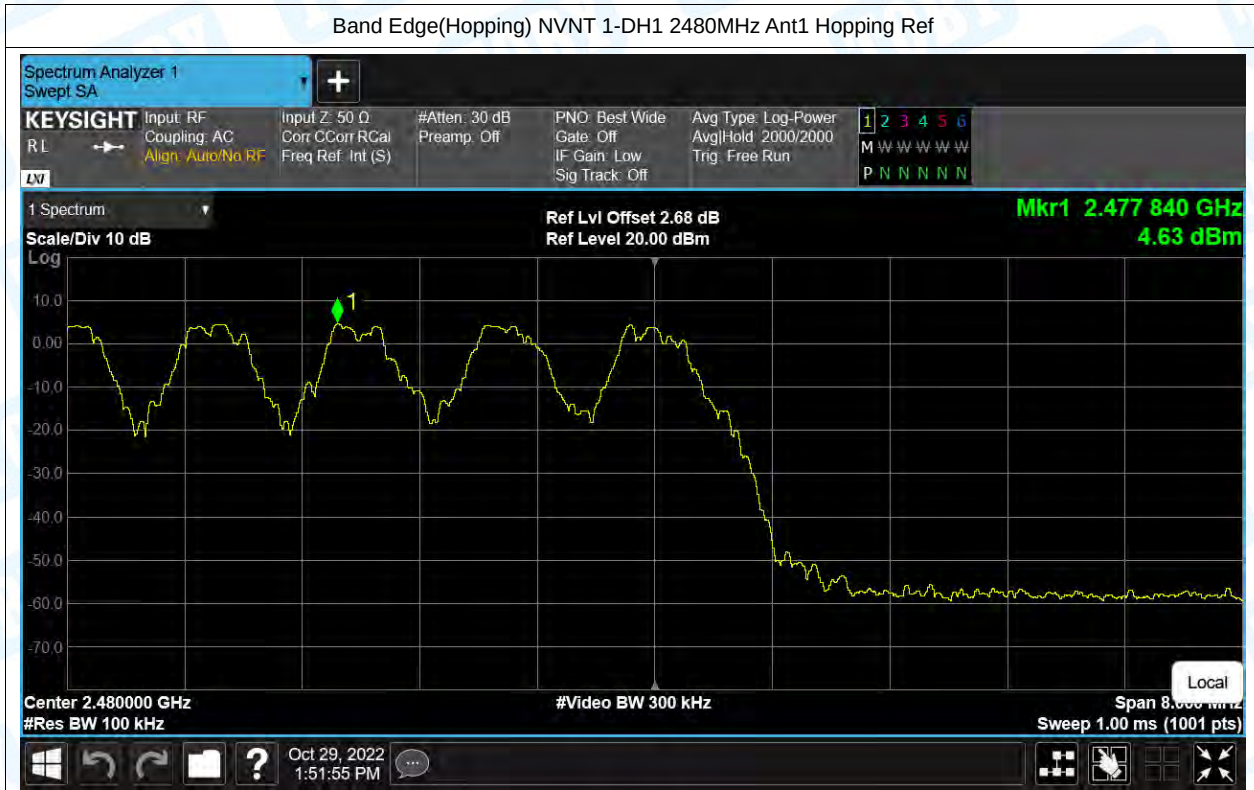
Test Graphs

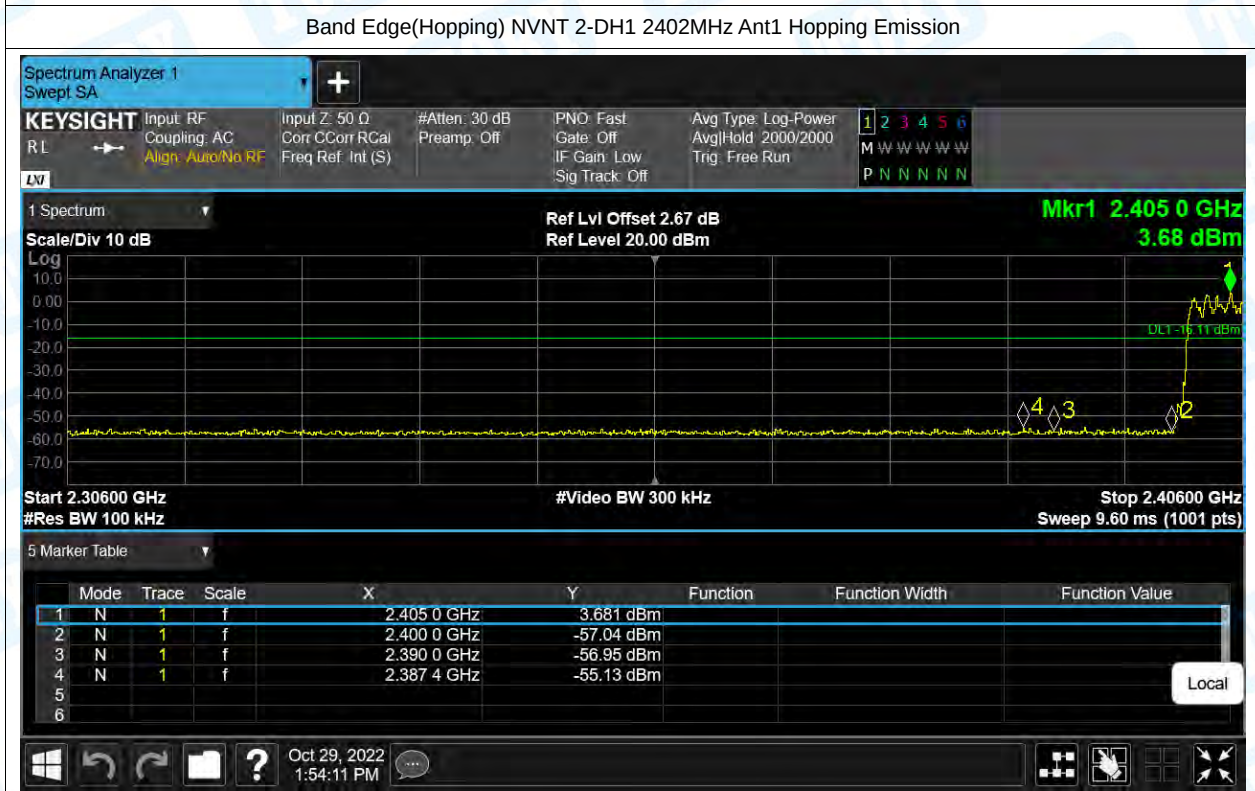
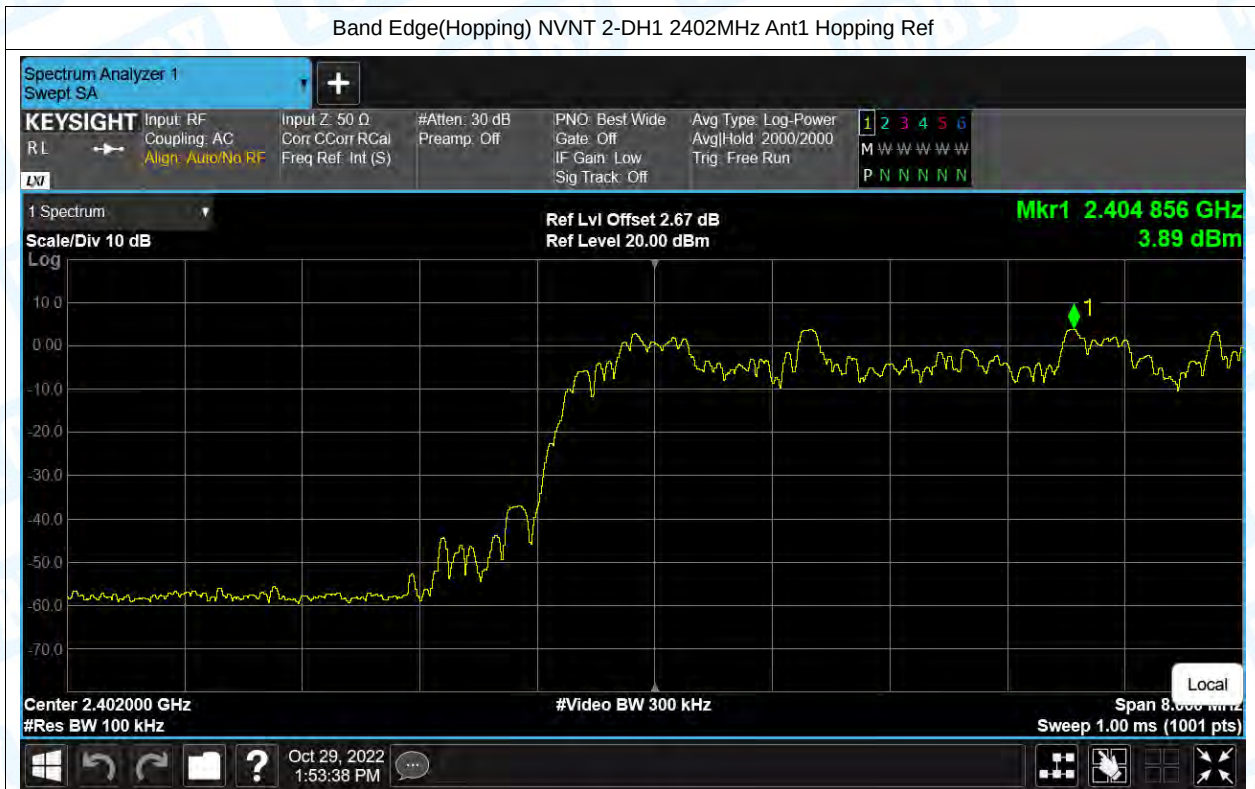
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

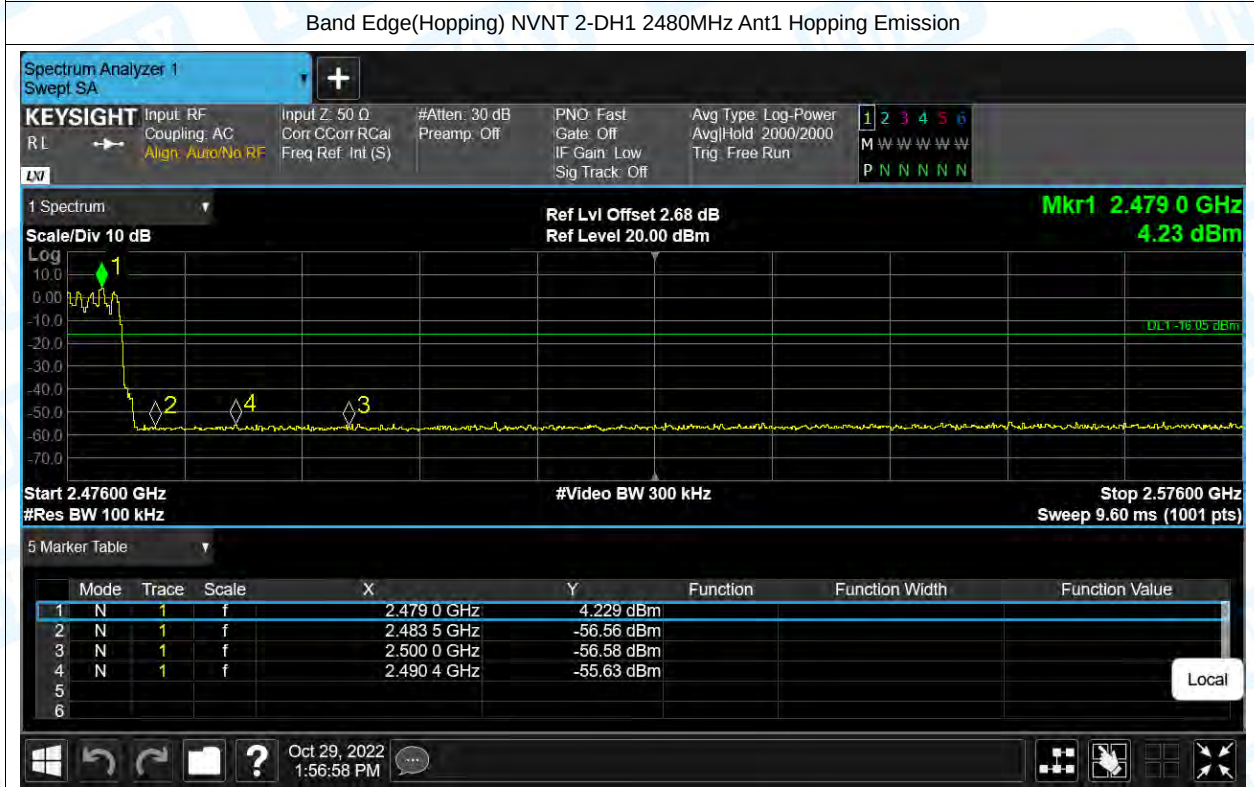


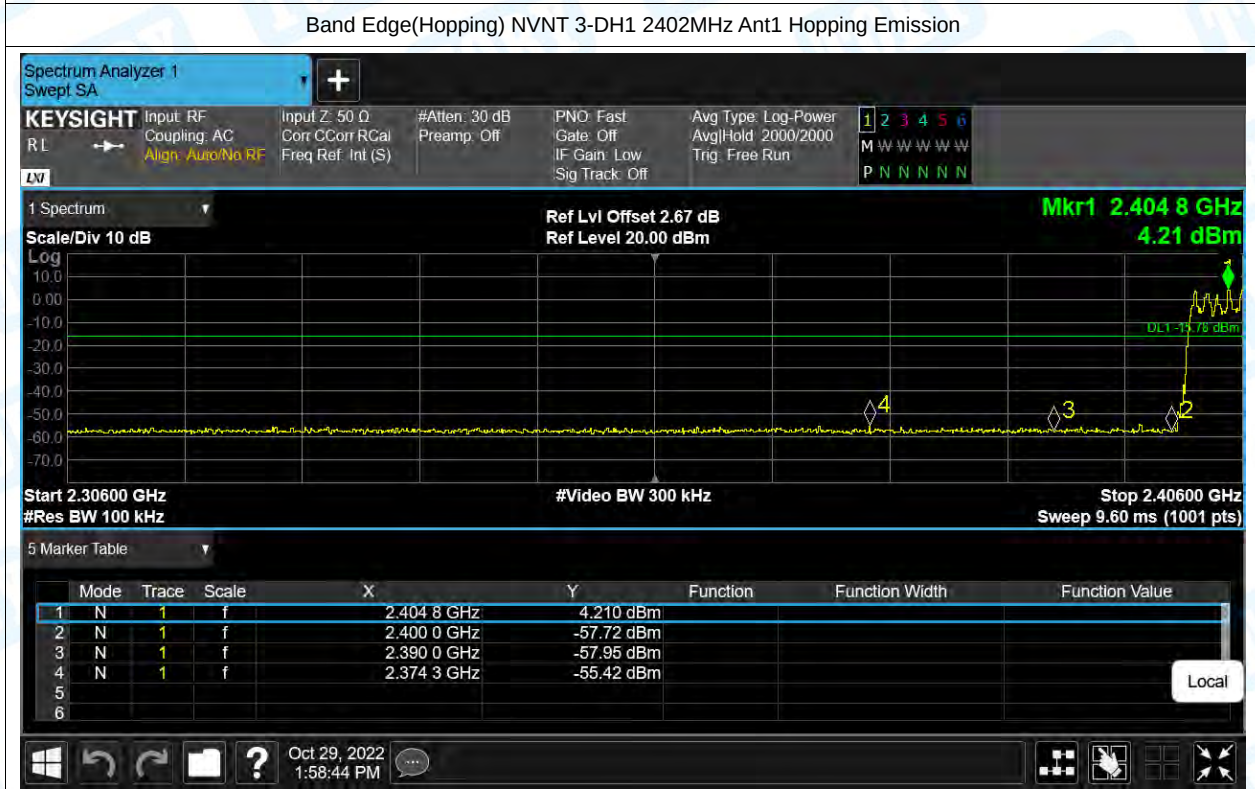
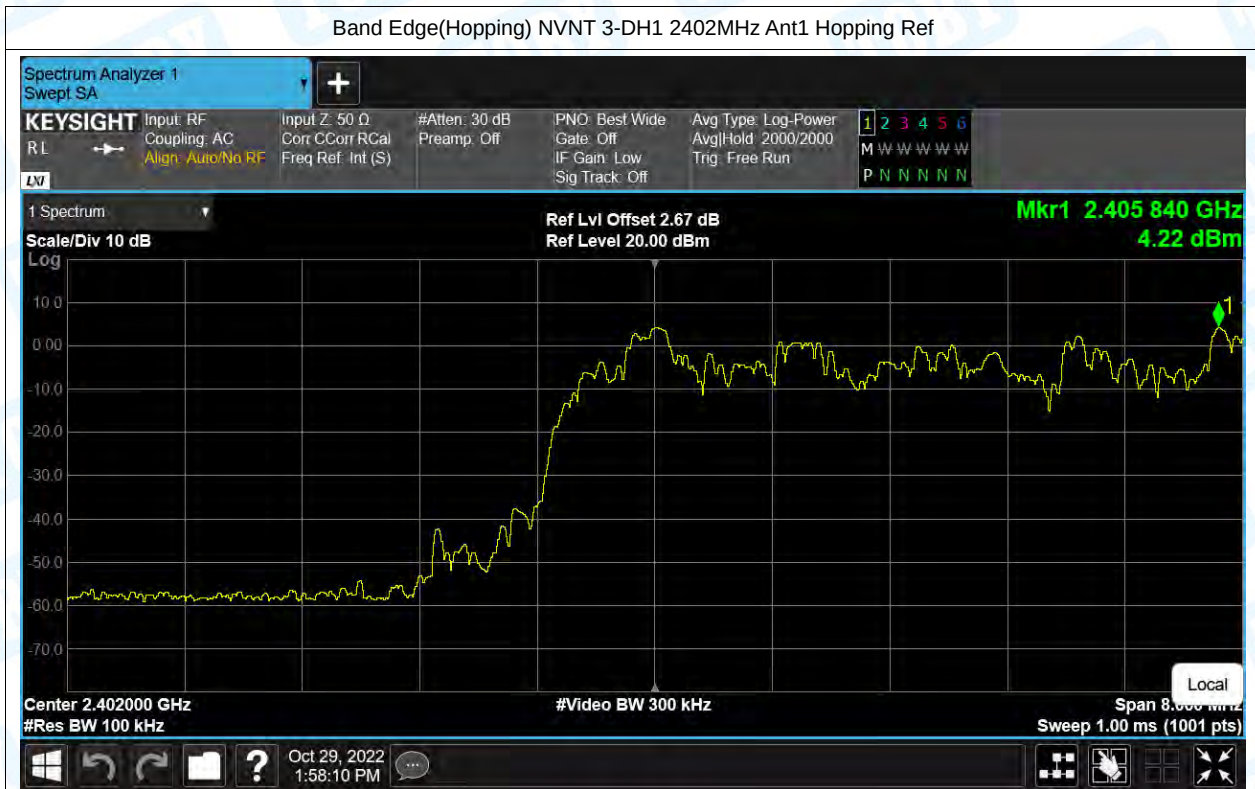
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

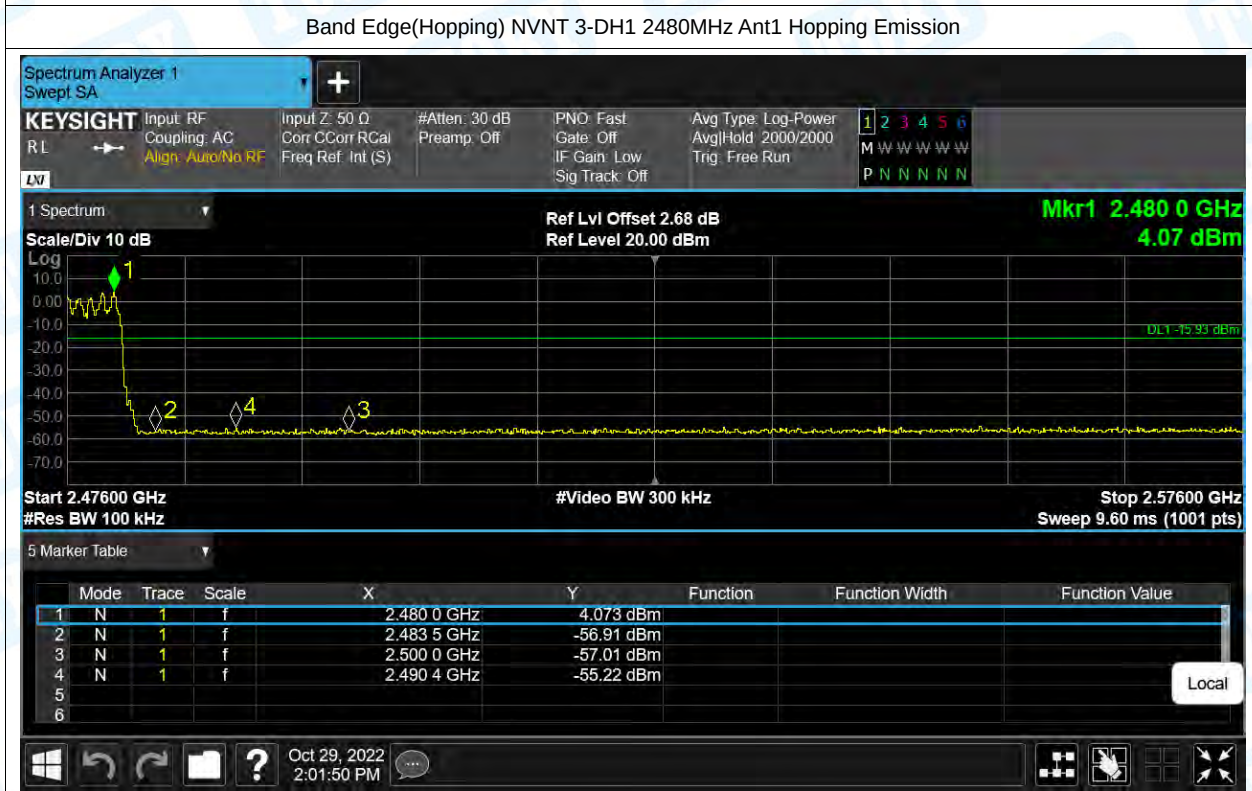
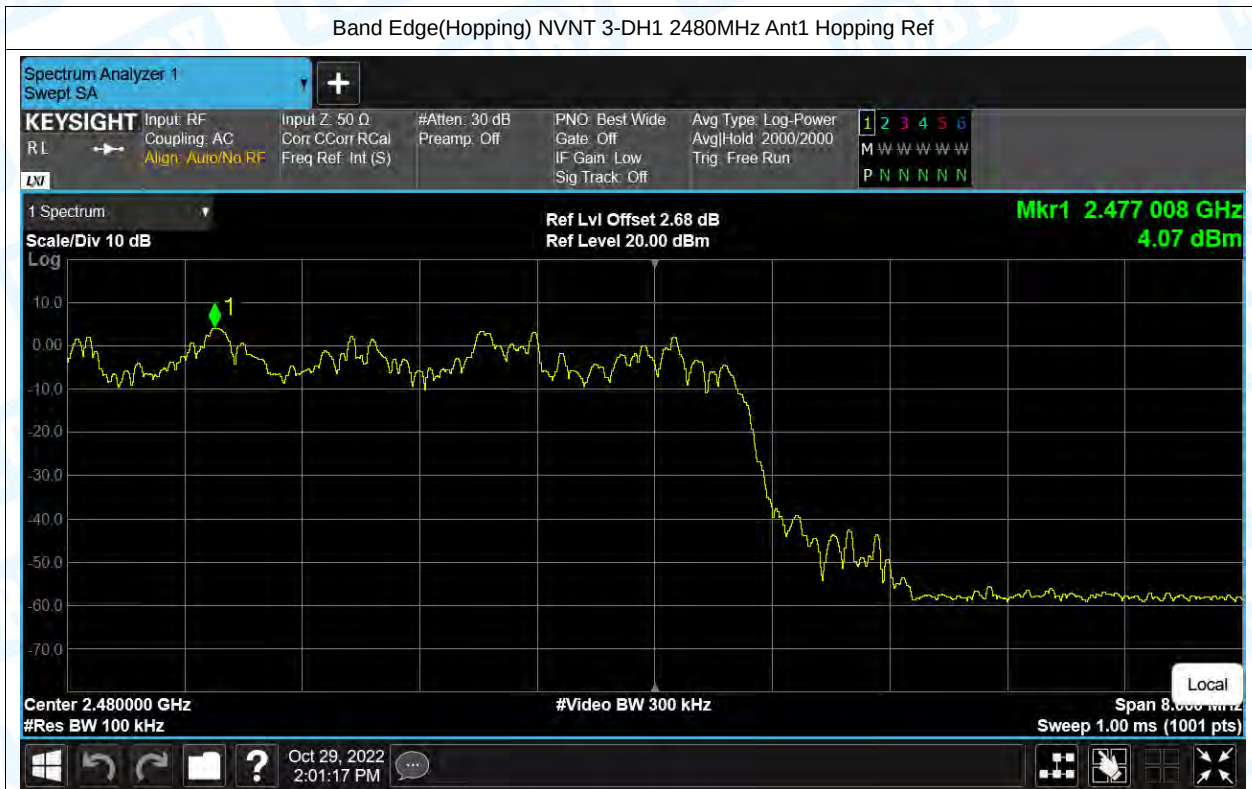












7. Conducted RF Spurious Emission

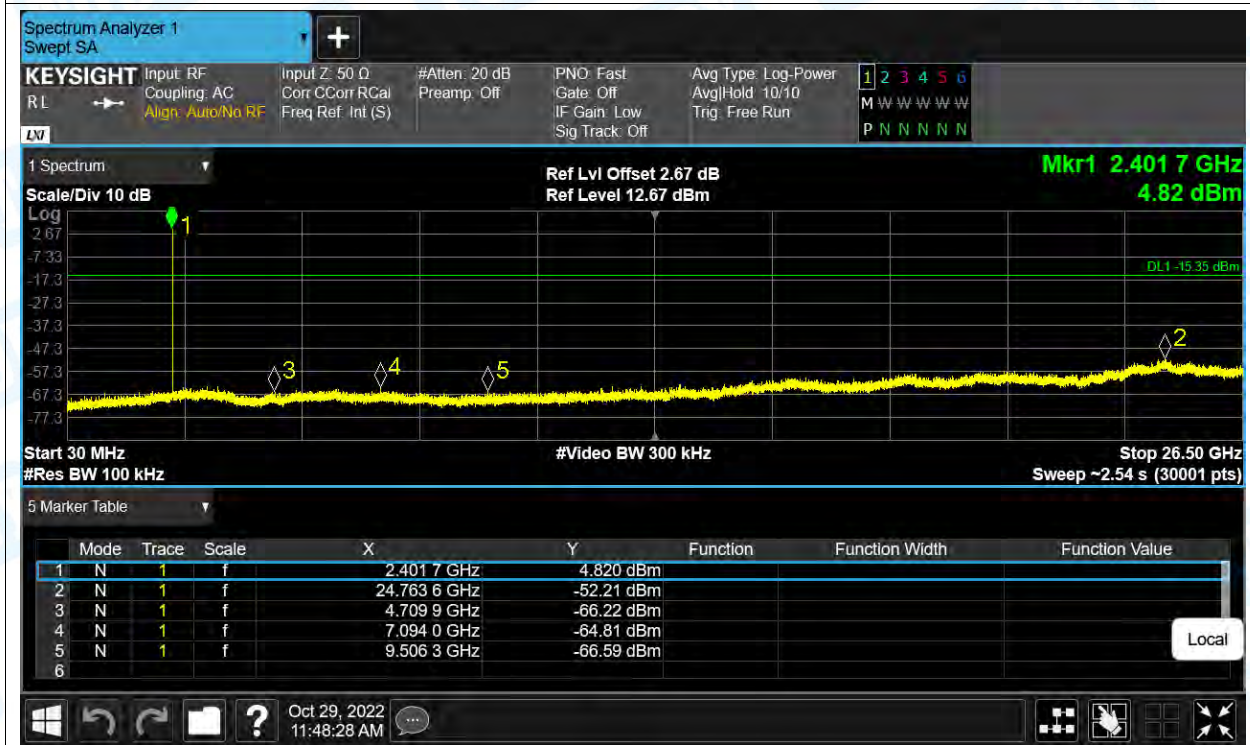
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-56.86	-20	Pass
NVNT	1-DH1	2441	Ant1	-56.42	-20	Pass
NVNT	1-DH1	2480	Ant1	-56.02	-20	Pass
NVNT	2-DH1	2402	Ant1	-55.84	-20	Pass
NVNT	2-DH1	2441	Ant1	-56.15	-20	Pass
NVNT	2-DH1	2480	Ant1	-56.02	-20	Pass
NVNT	3-DH1	2402	Ant1	-55.66	-20	Pass
NVNT	3-DH1	2441	Ant1	-56.19	-20	Pass
NVNT	3-DH1	2480	Ant1	-49.37	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



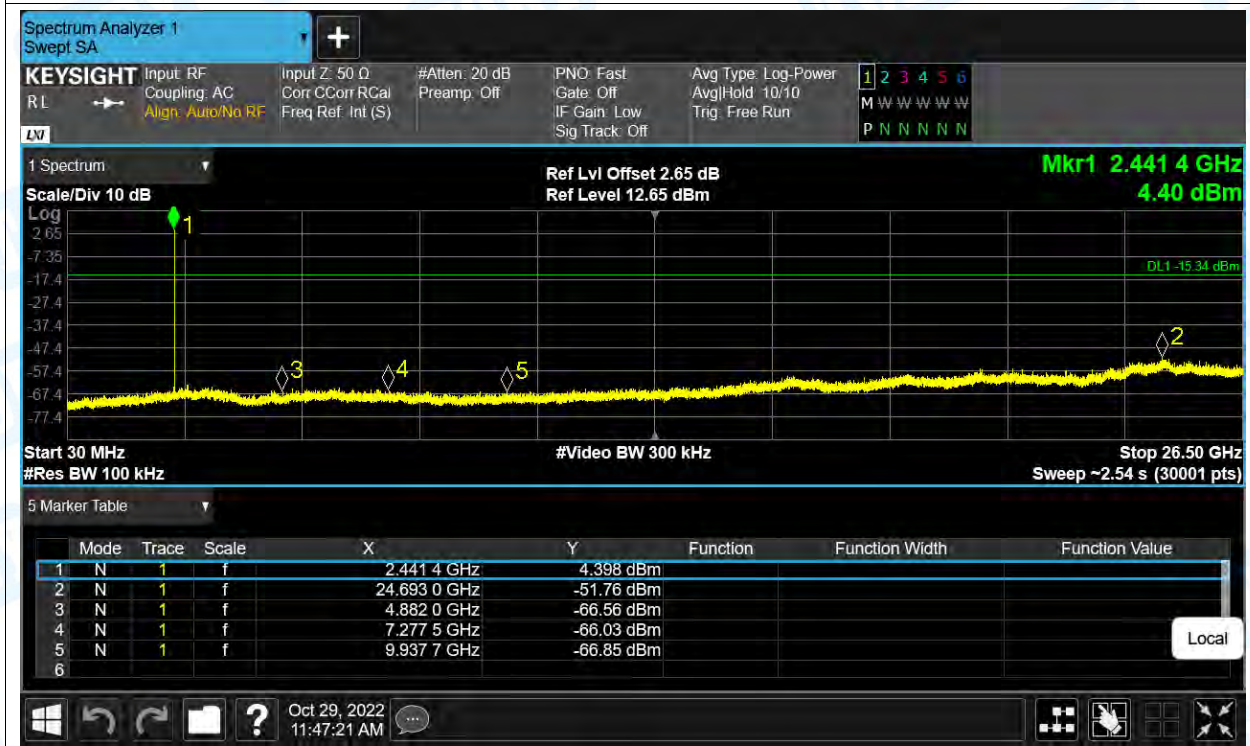
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



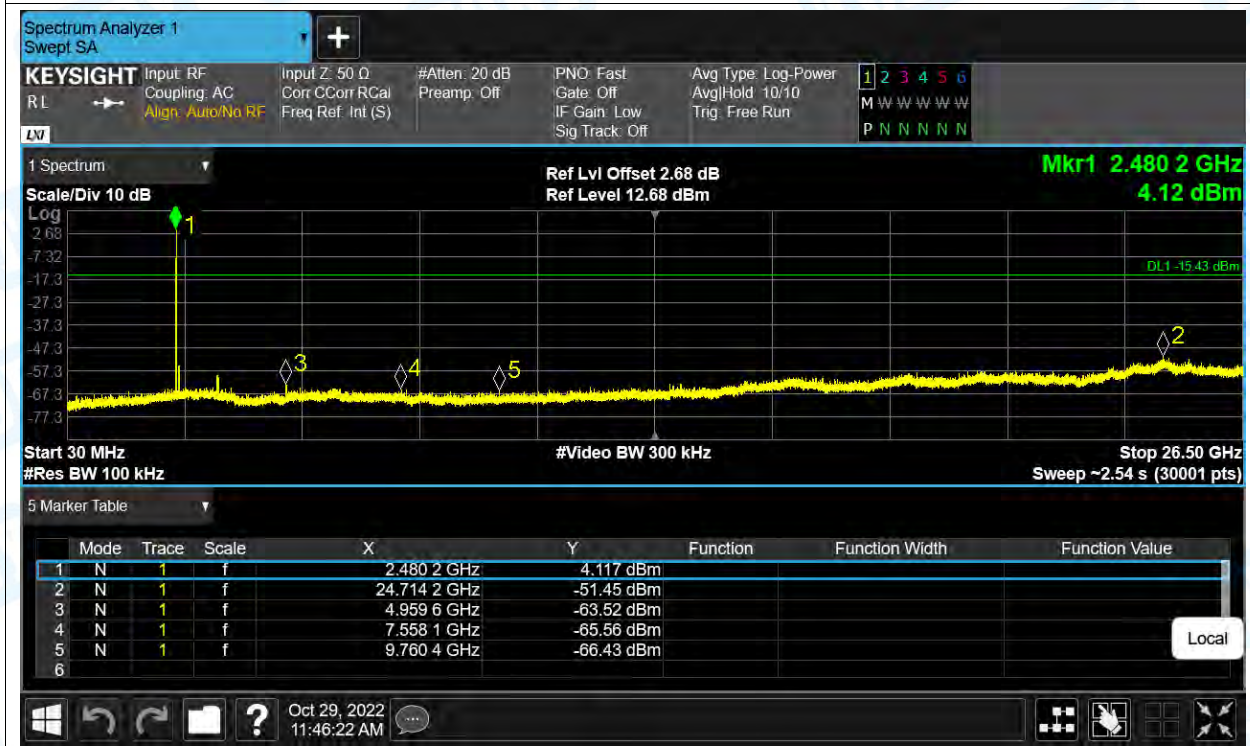
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



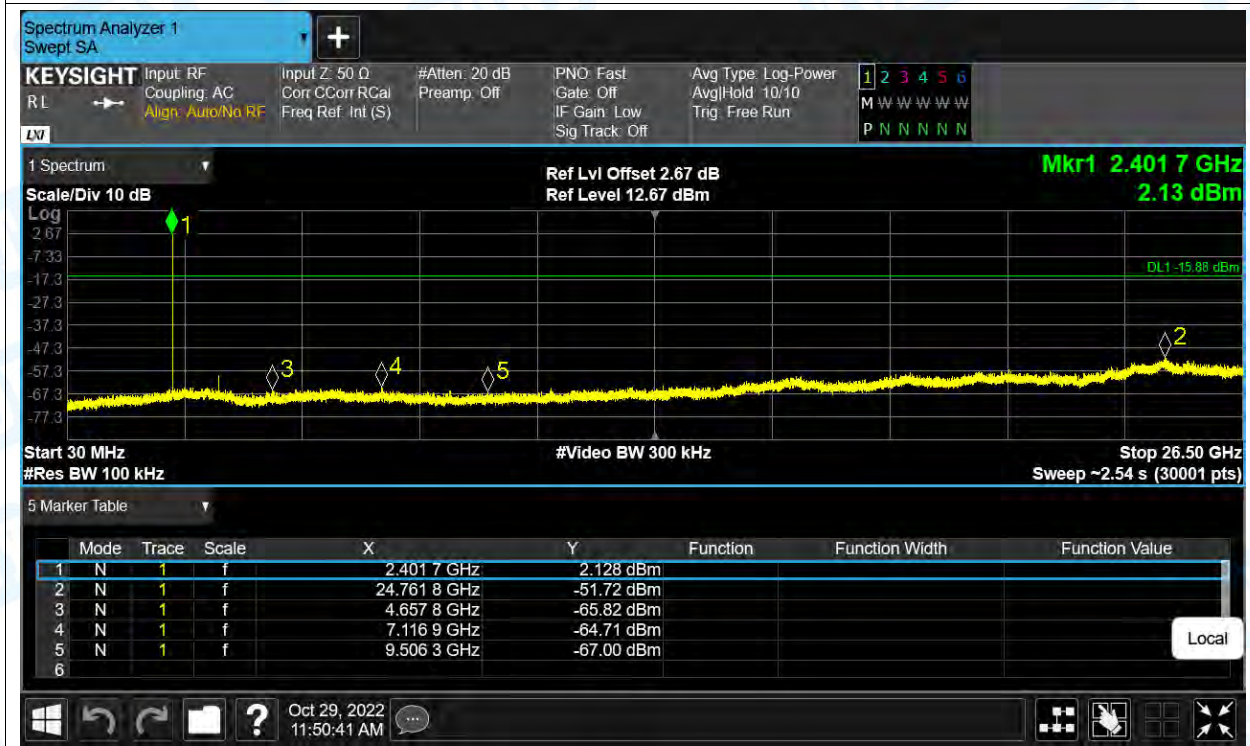
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission

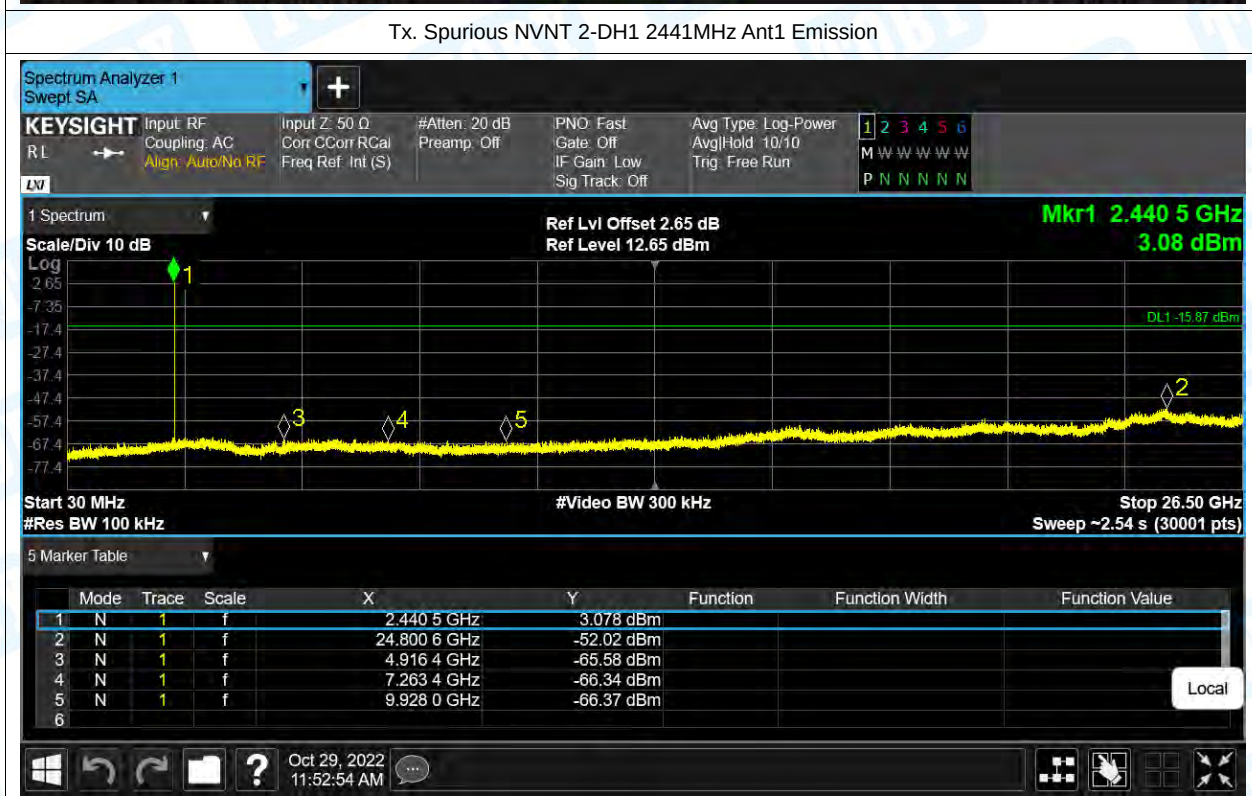
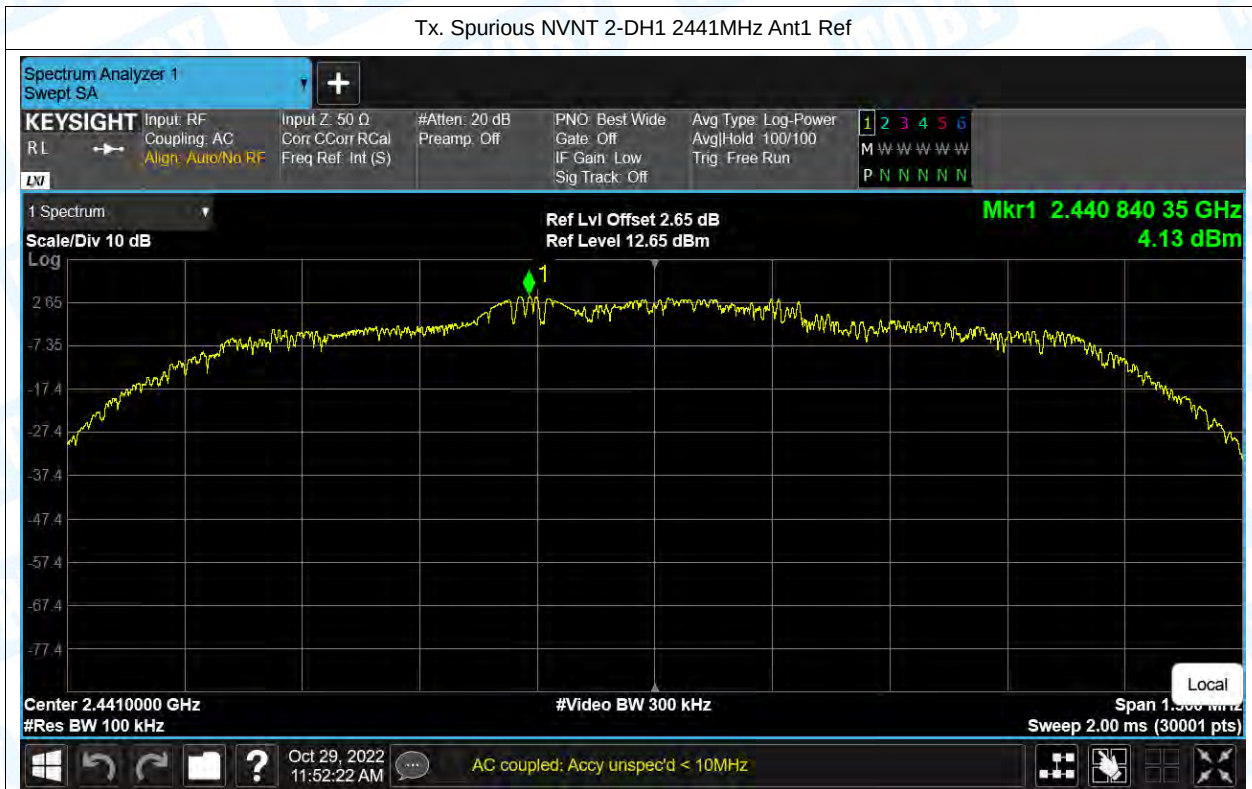


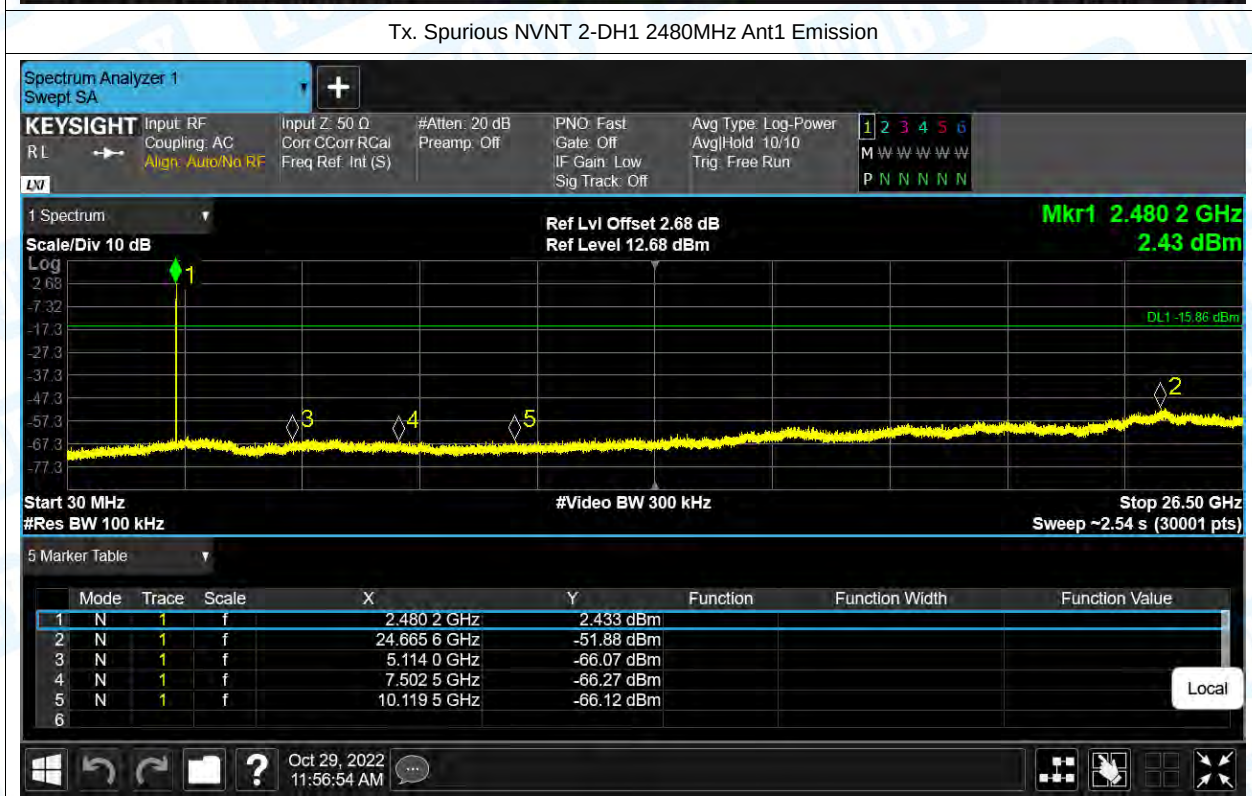
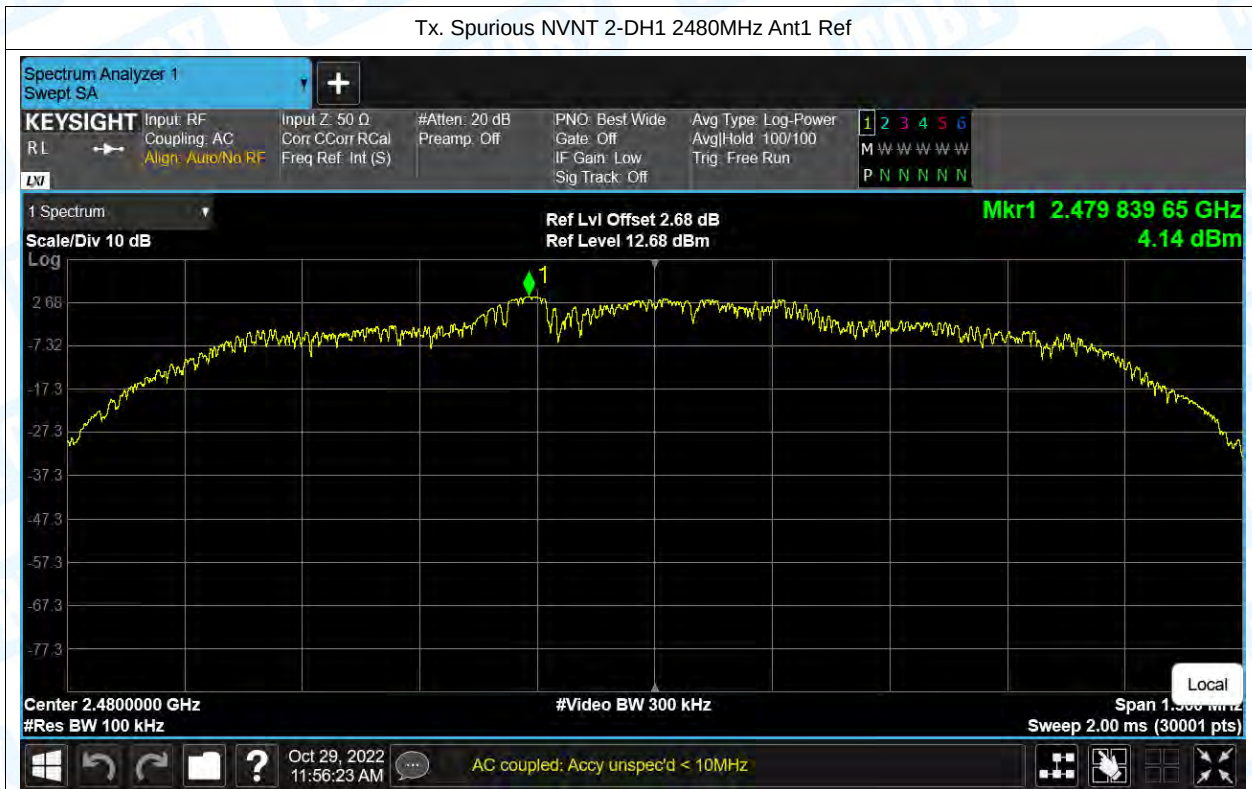
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



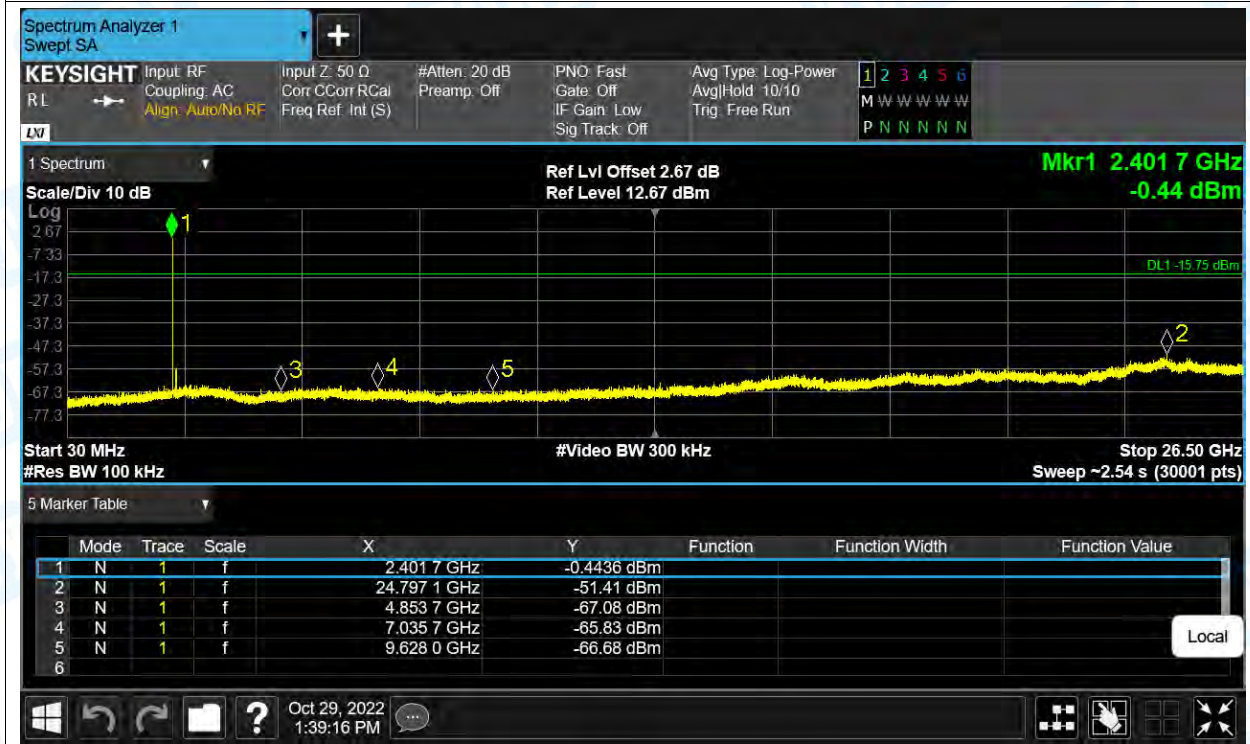




Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



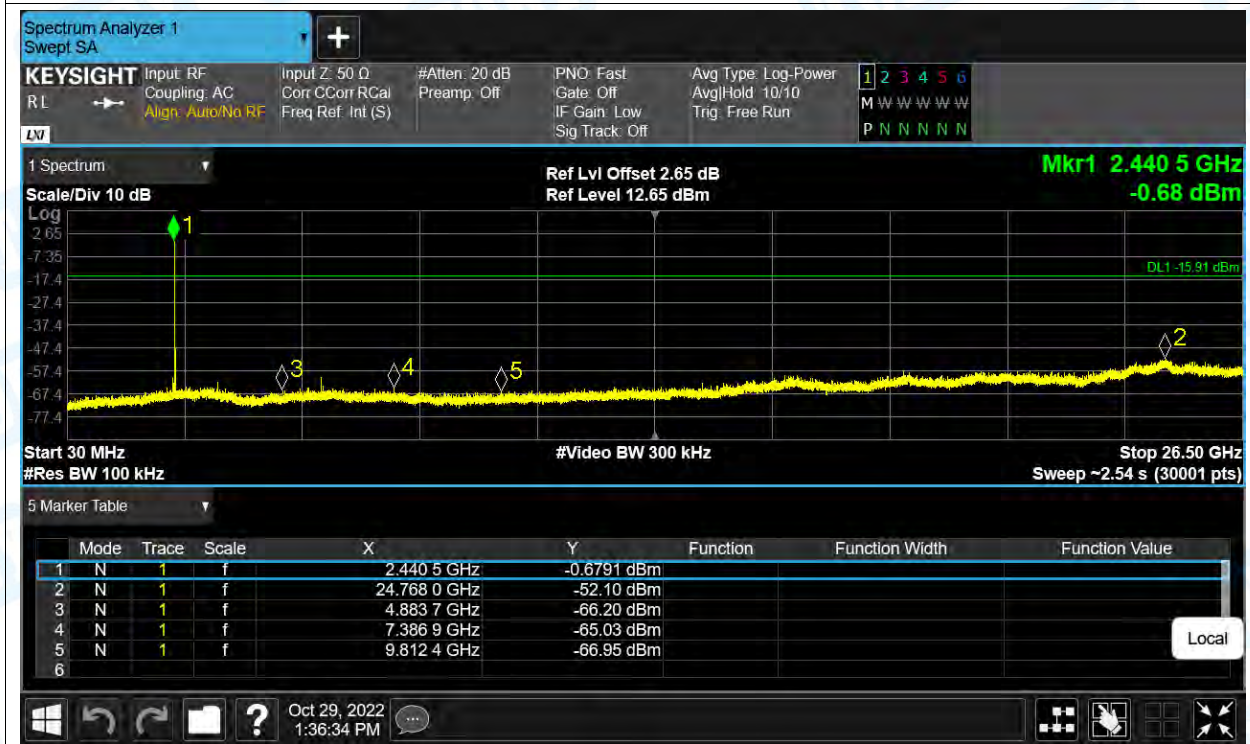
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



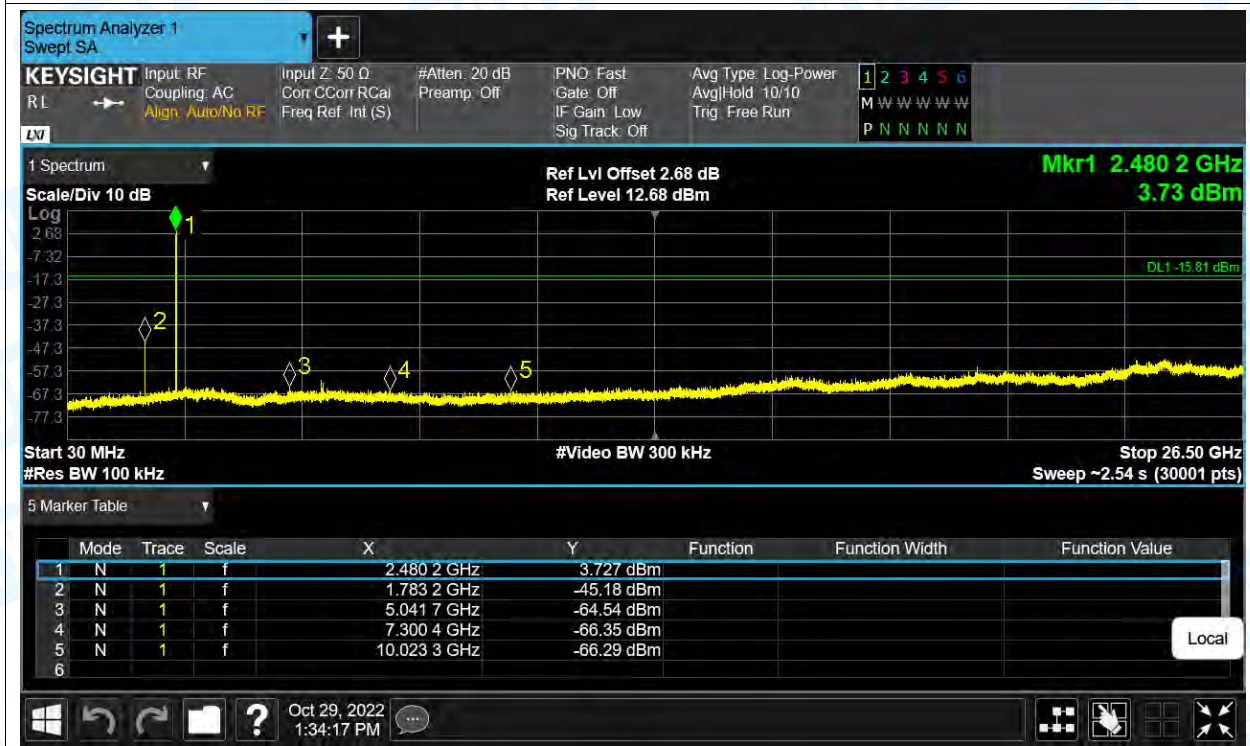
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

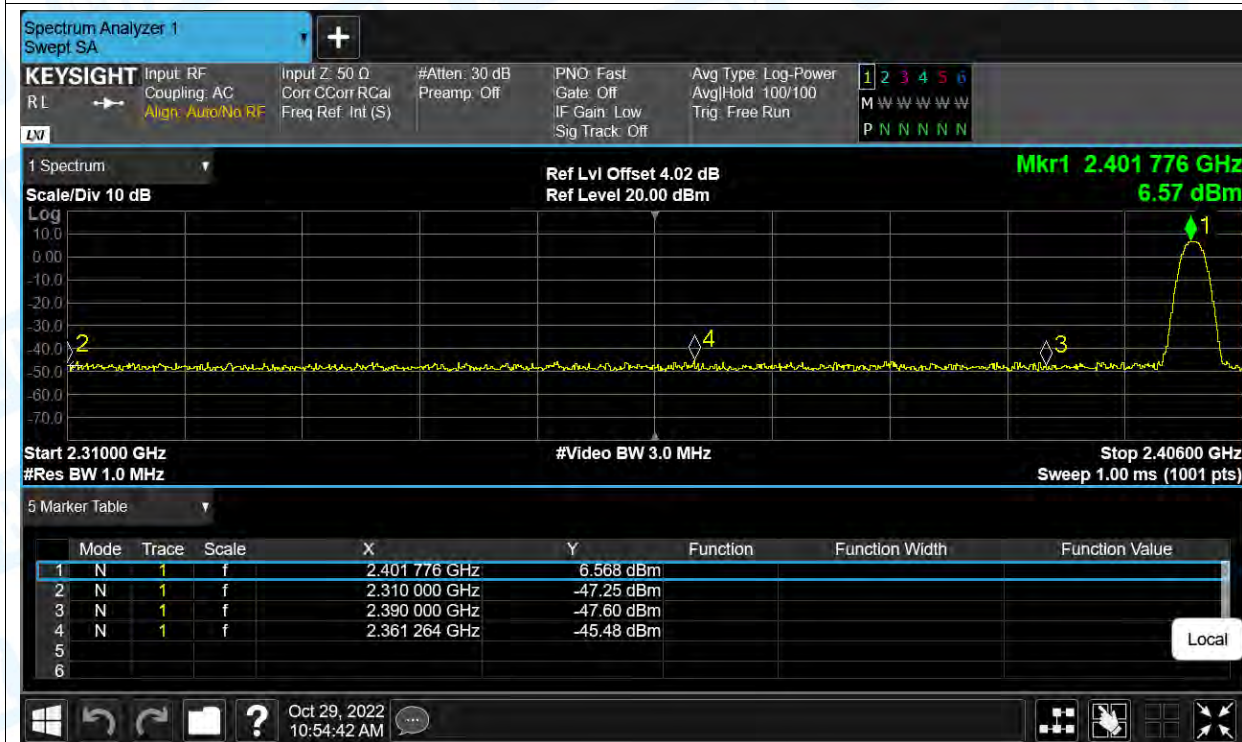


8. Restrict Band

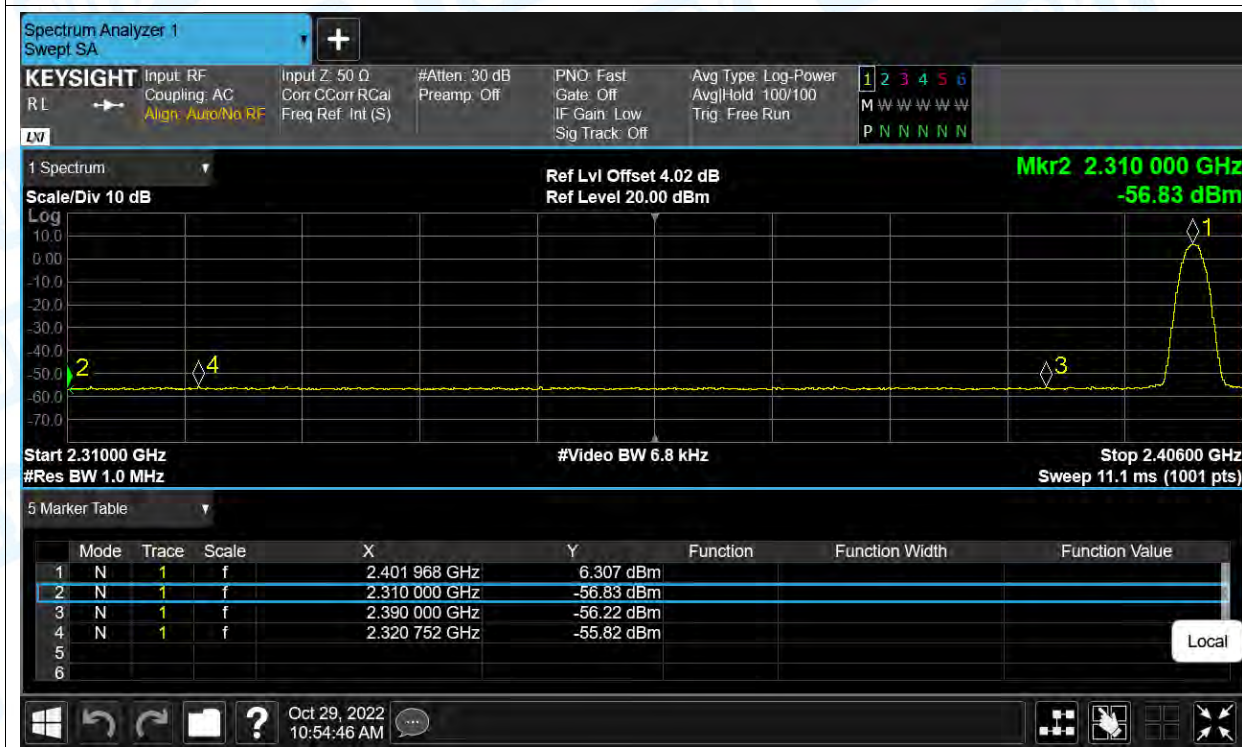
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.25	2	50.01	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.83	2	40.43	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2361.264	-45.48	2	51.78	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2320.752	-55.82	2	41.44	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.01	2	48.25	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.24	2	41.02	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.48	2	48.78	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.71	2	41.55	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2499.568	-44.54	2	52.72	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.28	-55.43	2	41.83	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.12	2	49.14	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.03	2	41.23	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.14	2	49.12	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.77	2	40.49	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2339.856	-45.19	2	52.07	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2352.912	-55.49	2	41.77	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.02	2	48.24	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.38	2	40.88	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.11	2	49.15	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.85	2	41.41	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2490.808	-43.58	2	53.68	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2486.176	-55.16	2	42.1	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.56	2	48.7	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-56.75	2	40.51	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.34	2	49.92	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-57.28	2	39.98	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2345.52	-44.53	2	52.73	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2359.248	-56.39	2	40.87	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.11	2	49.15	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.98	2	40.28	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.53	2	49.73	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-56.75	2	40.51	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.936	-44.83	2	52.43	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.856	-56.13	2	41.13	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.78	2	50.48	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-57.1	2	40.16	Average	54	Pass

Test Graphs

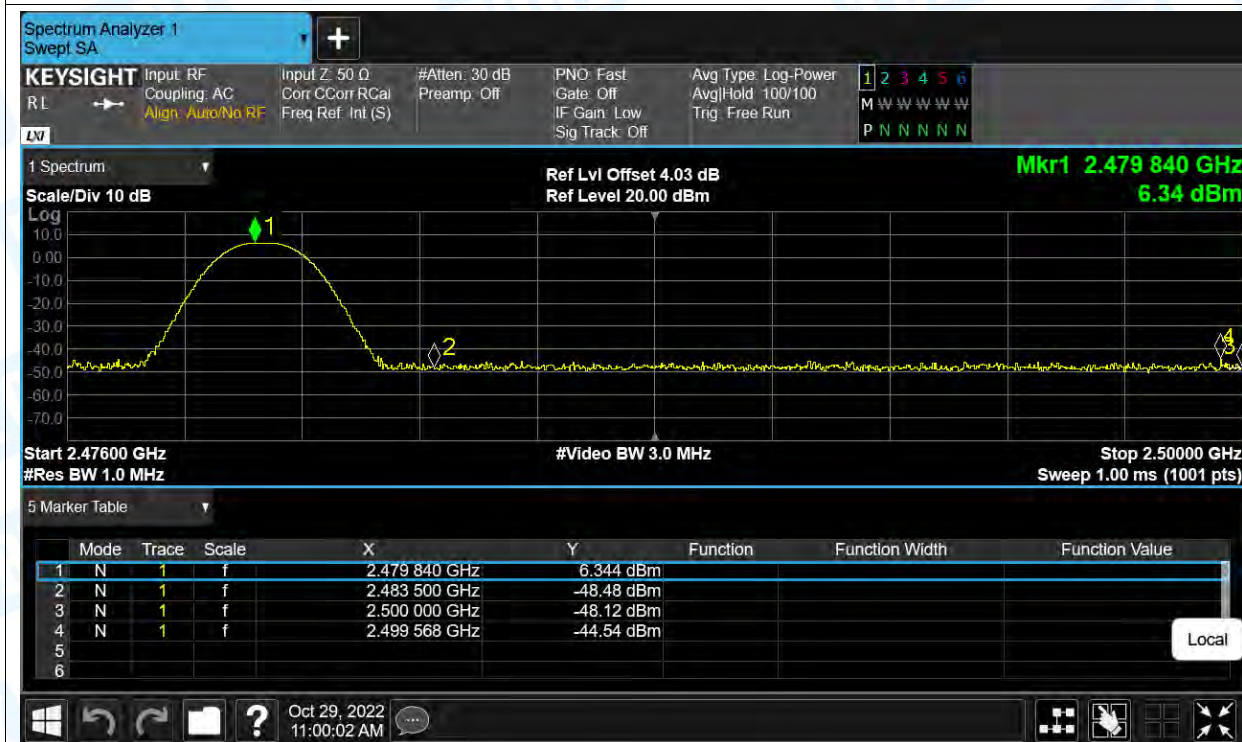
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



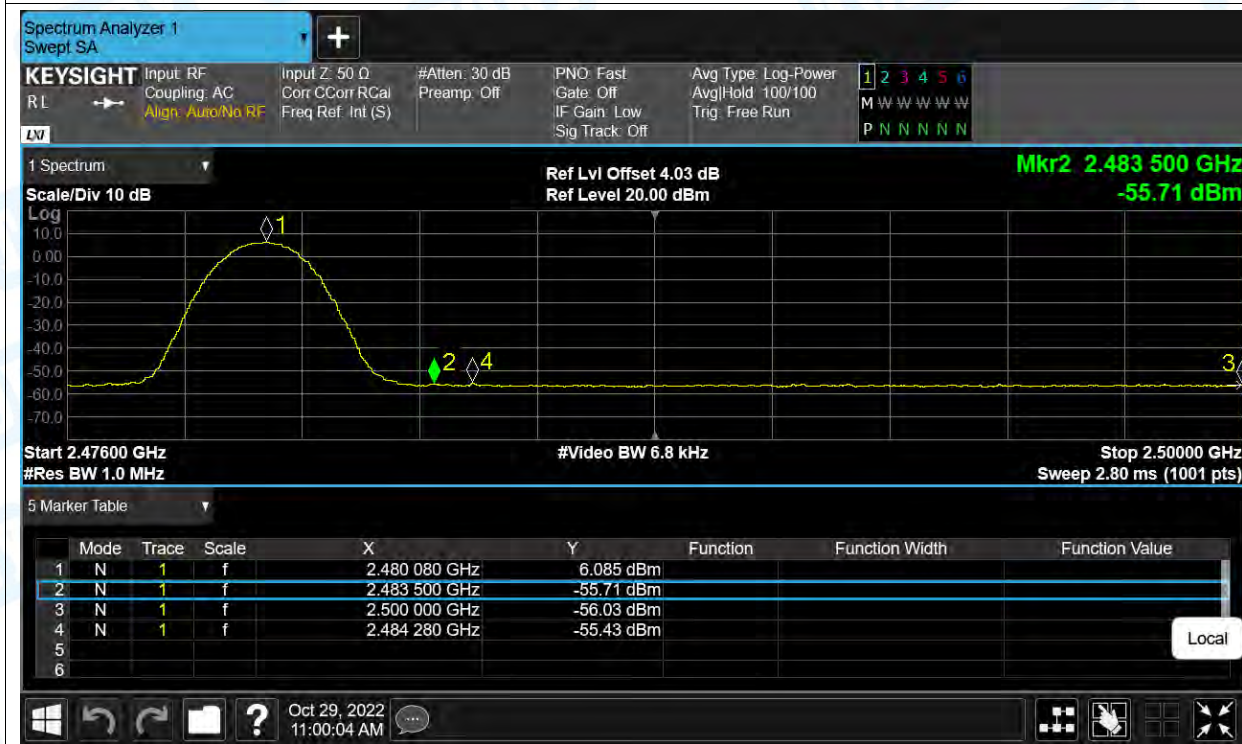
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



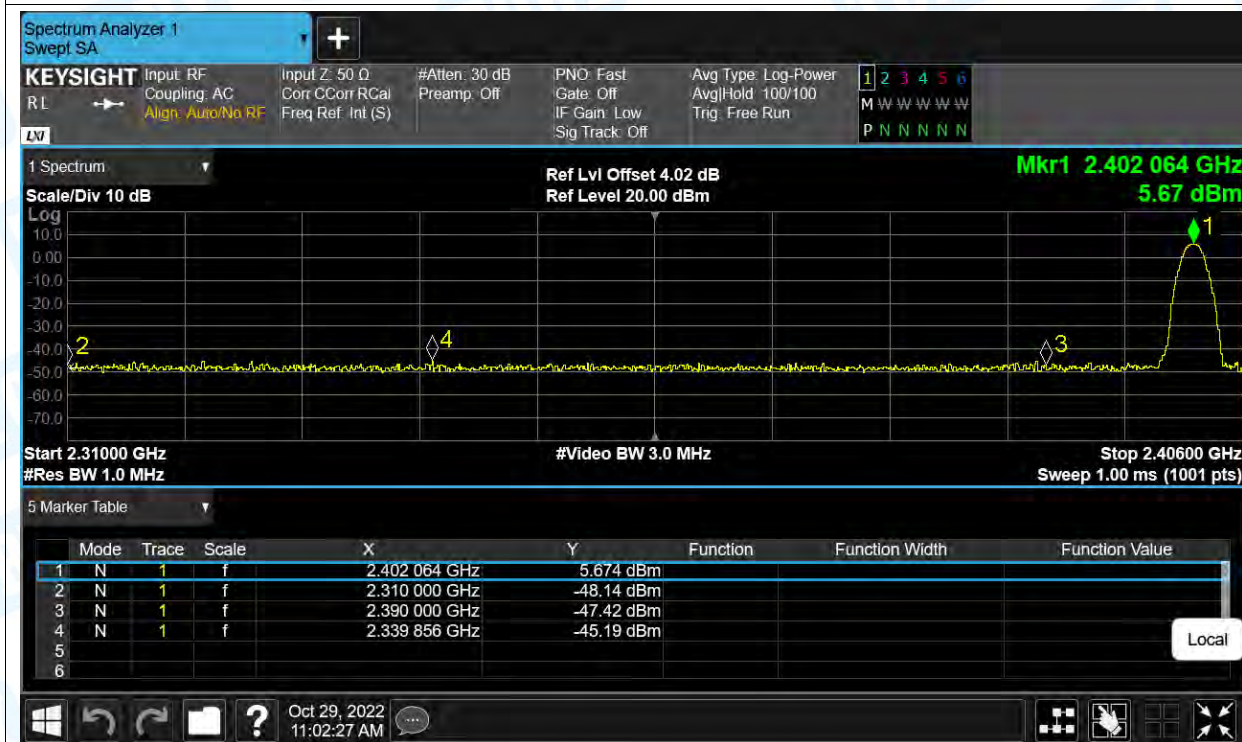
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



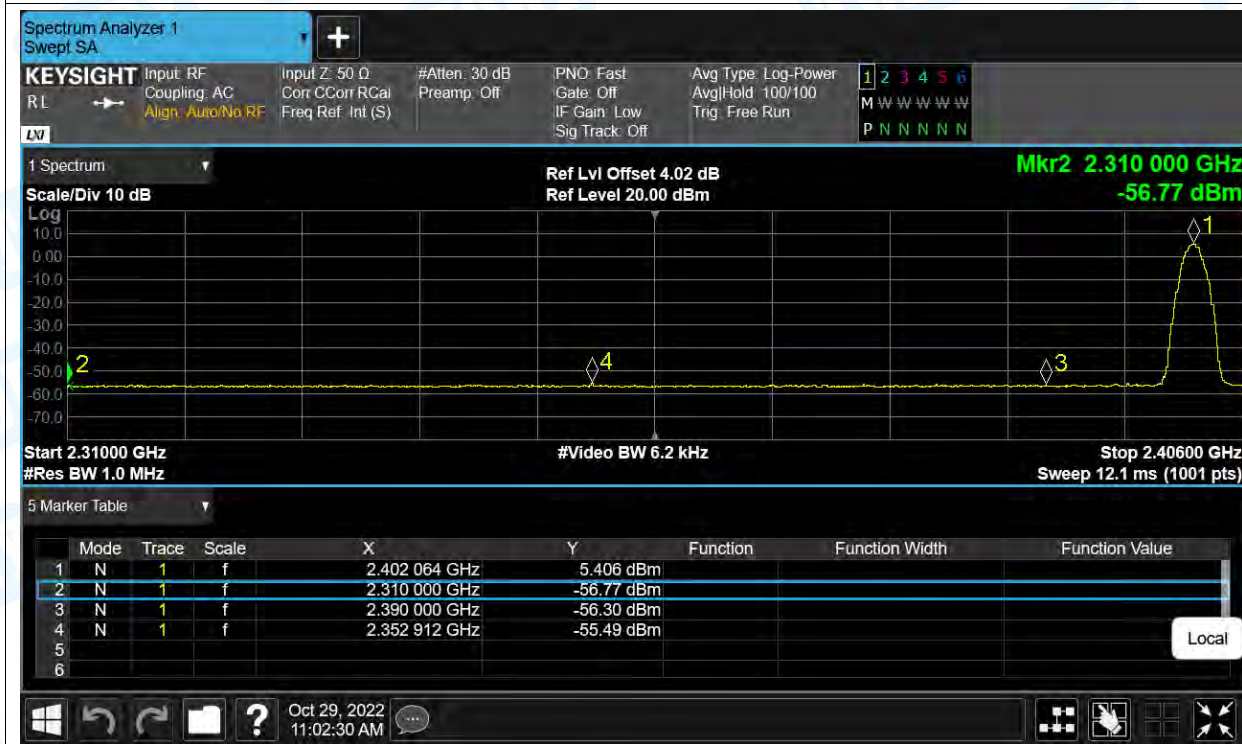
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



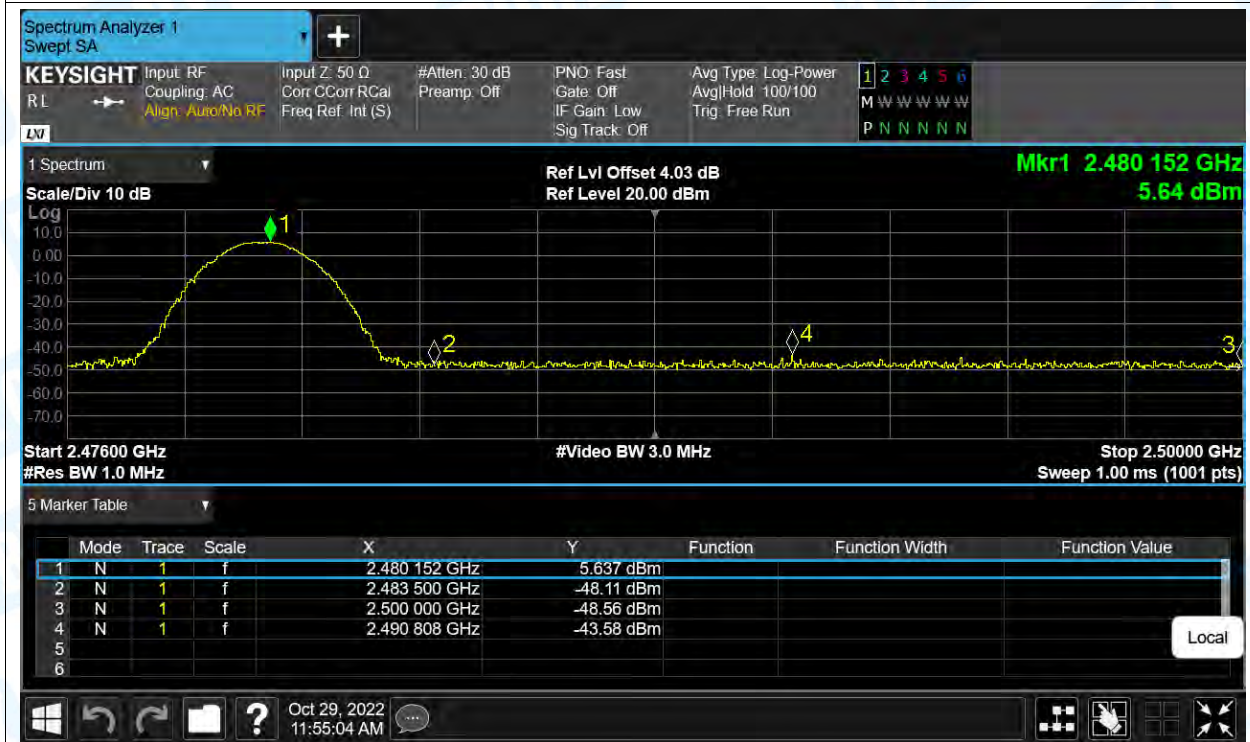
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



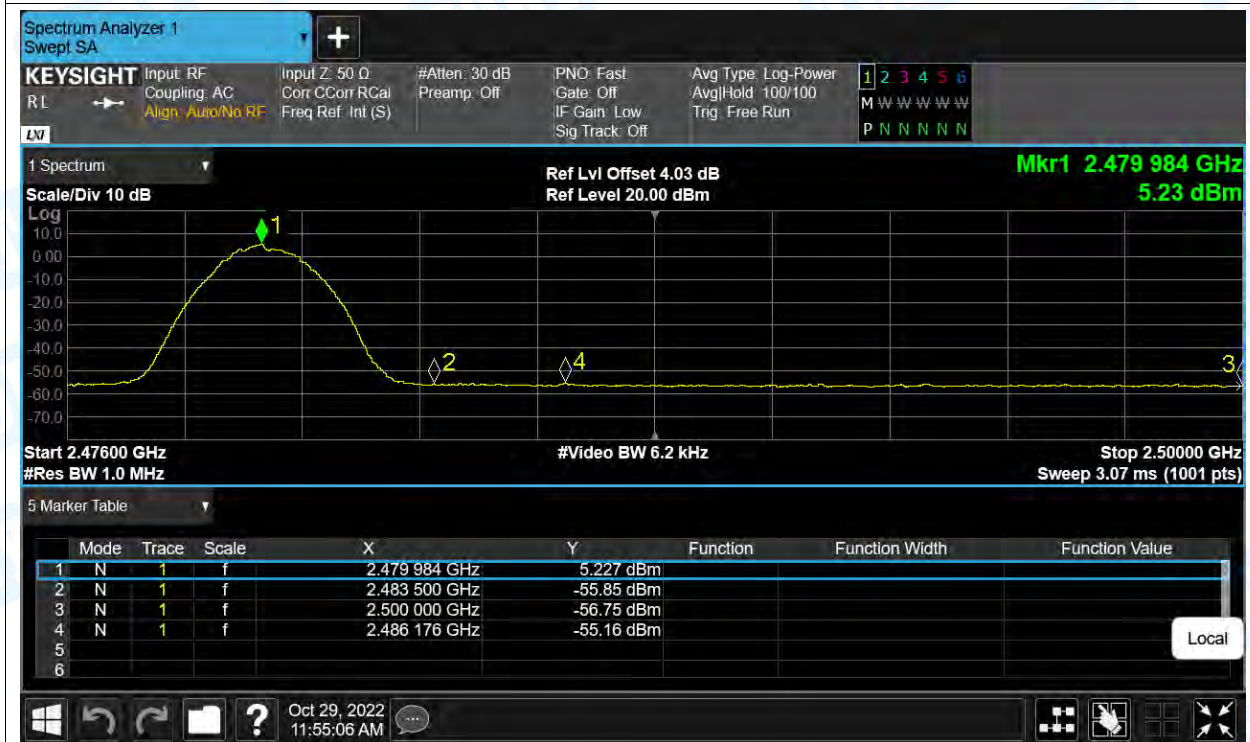
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



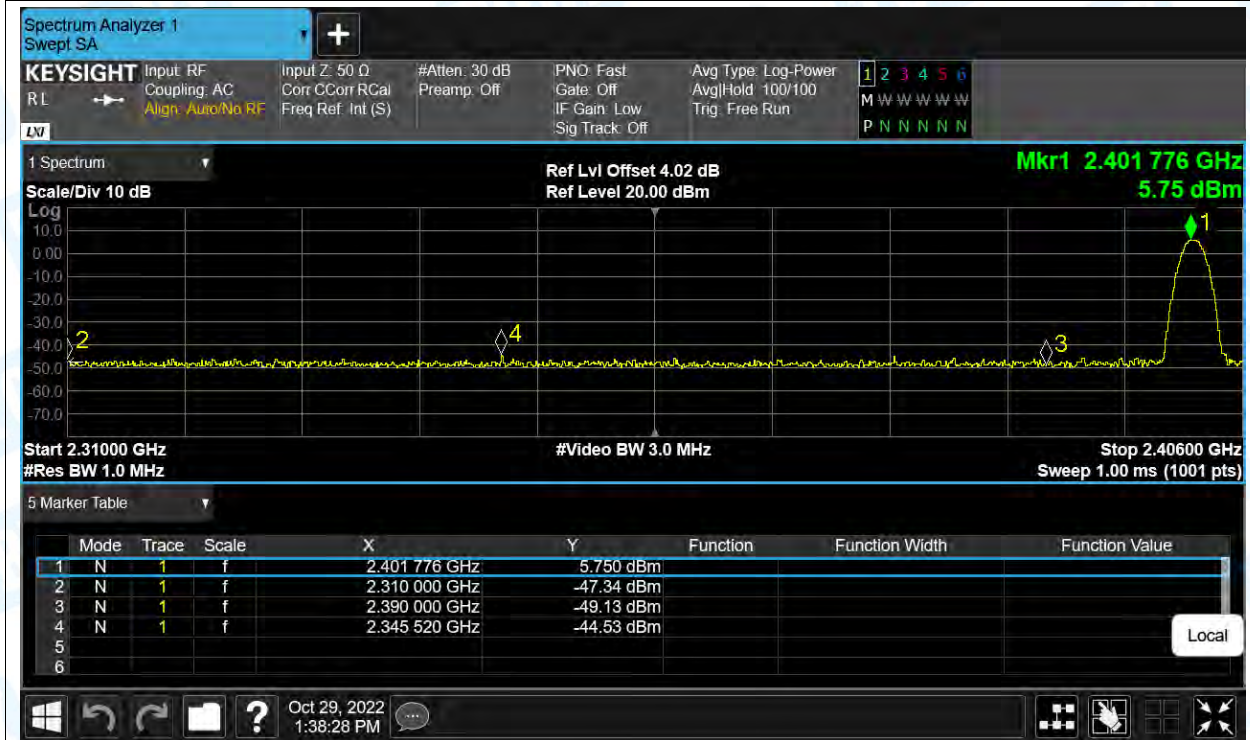
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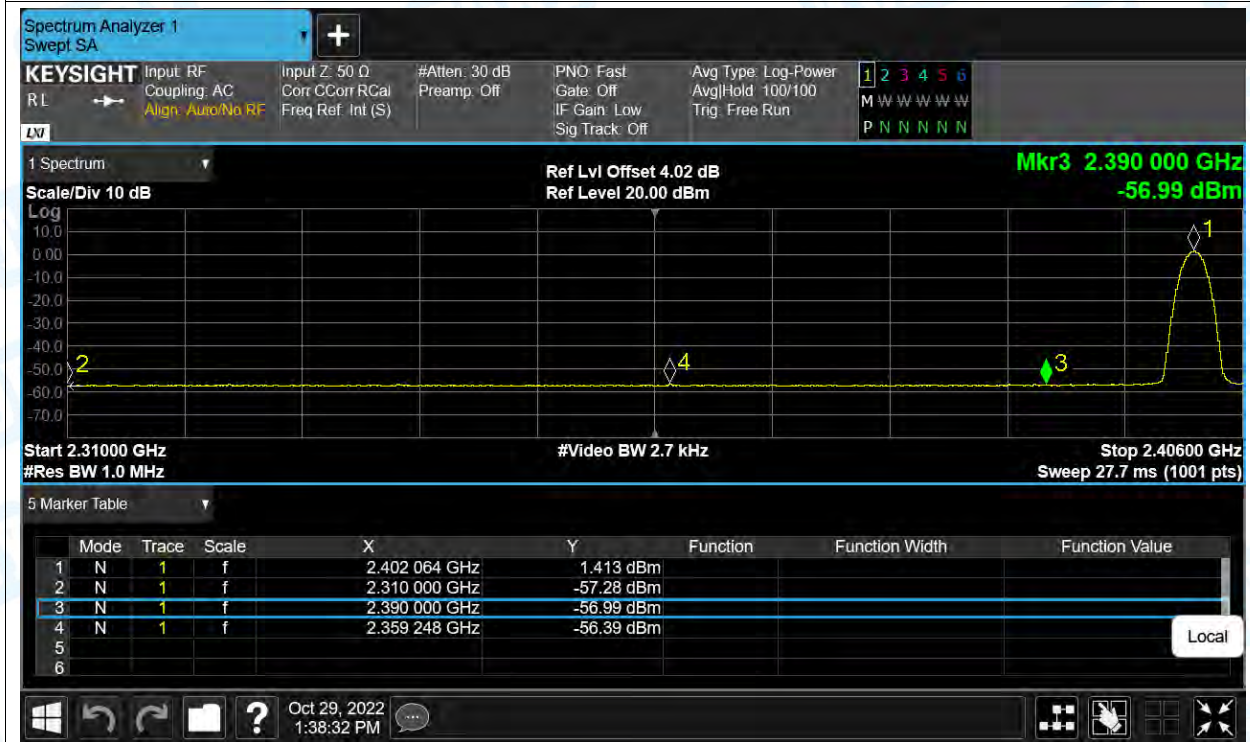
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



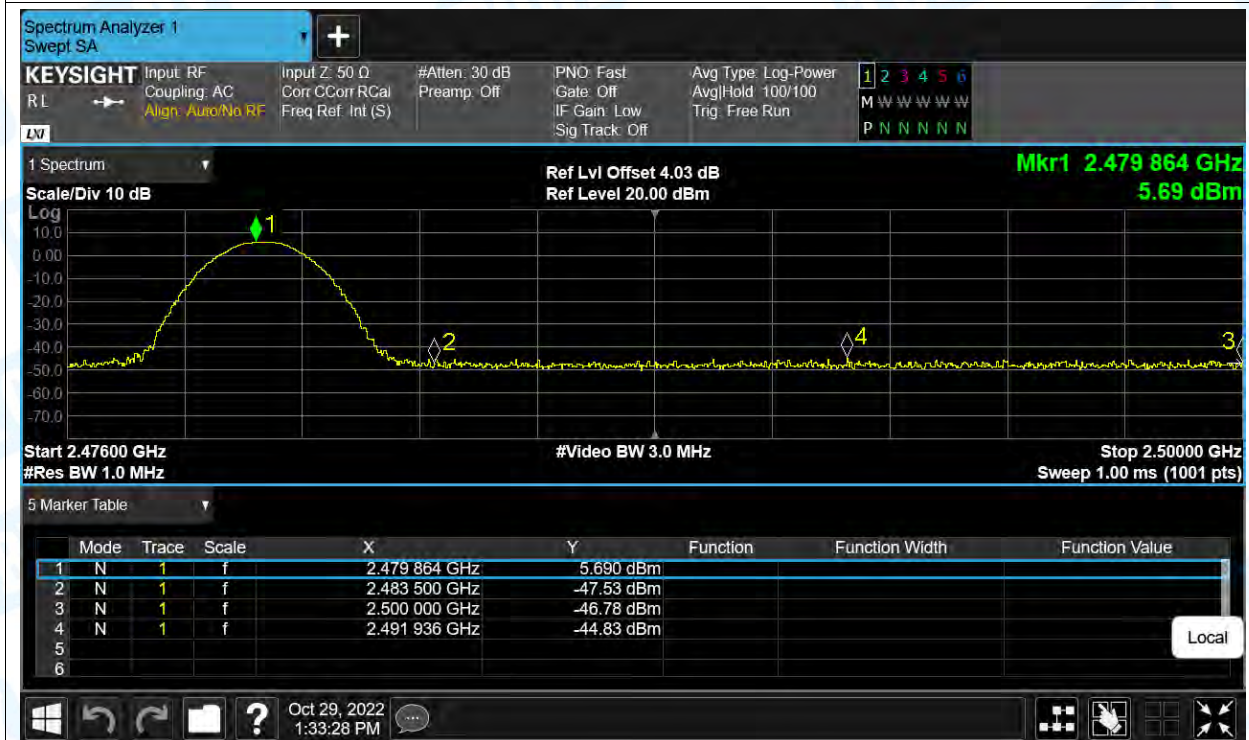
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



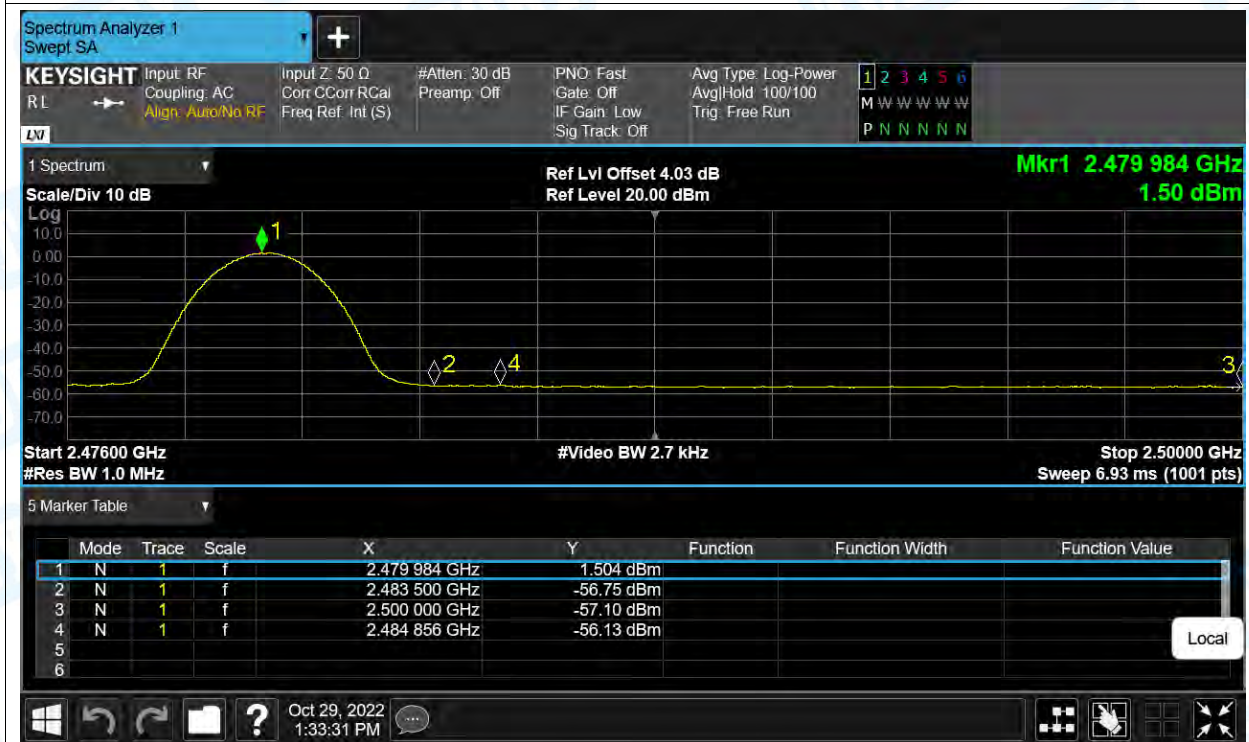
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak

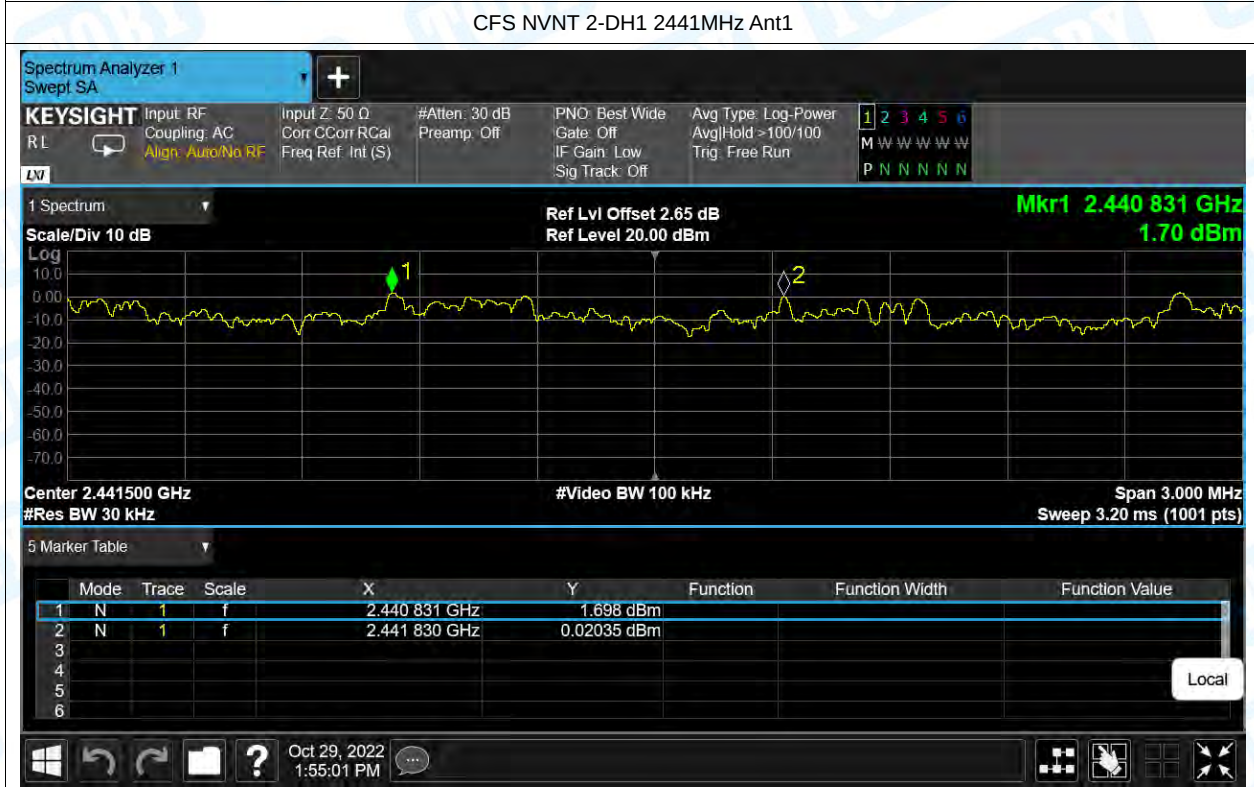
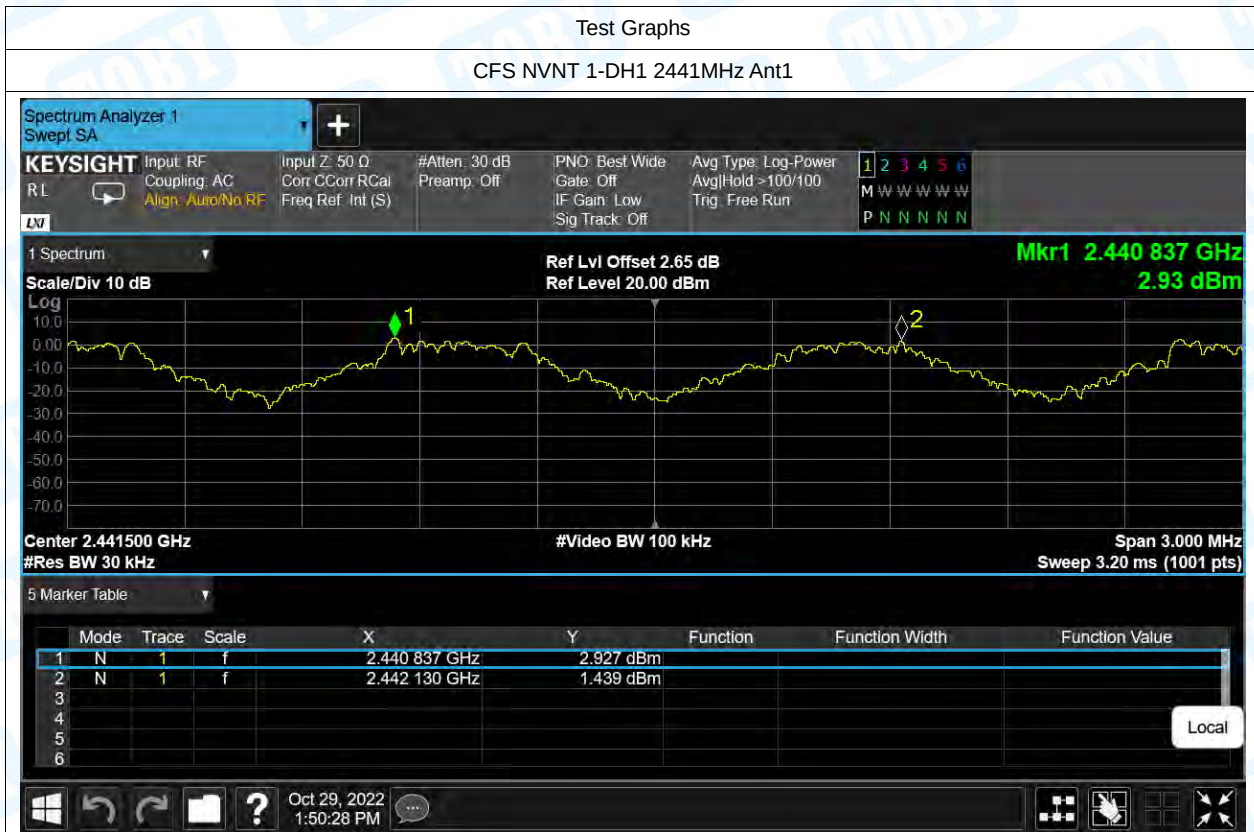


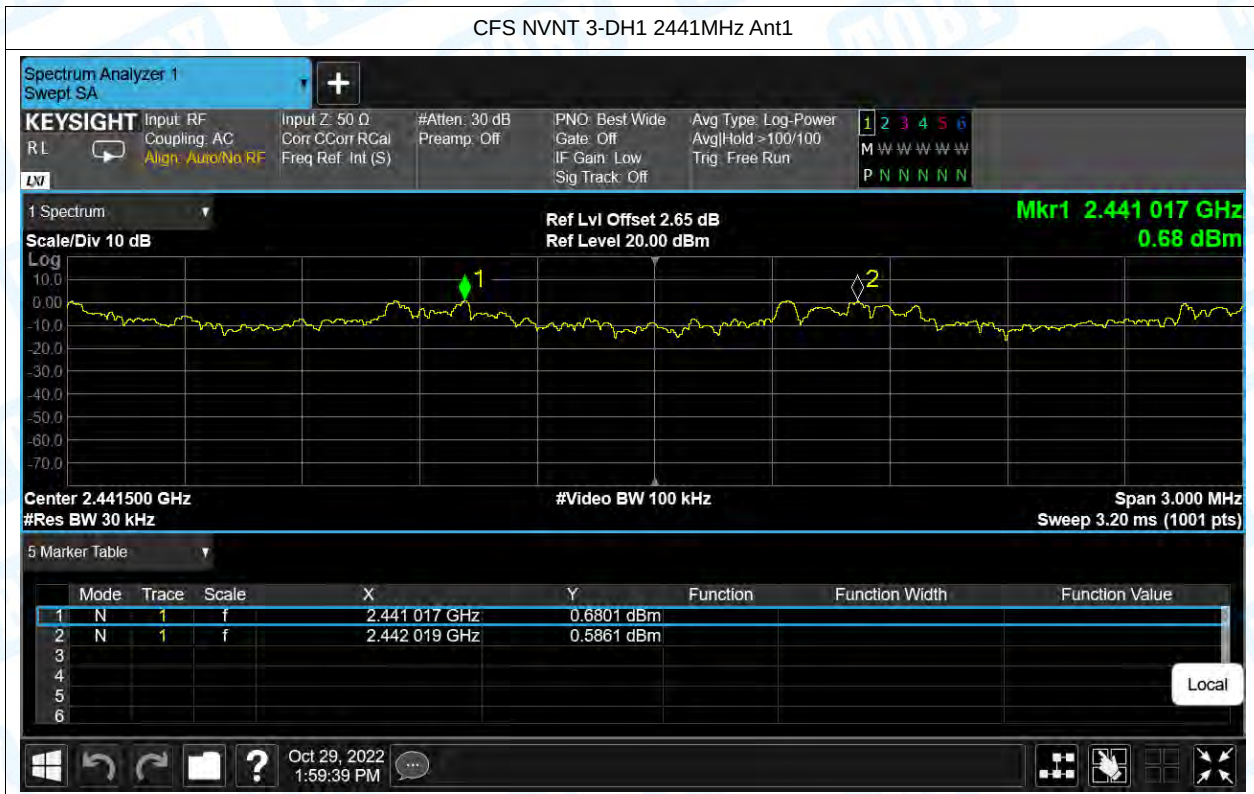
Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average



9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.837	2442.13	1.293	0.56	Pass
NVNT	2-DH1	Ant1	2440.831	2441.83	0.999	0.82	Pass
NVNT	3-DH1	Ant1	2441.017	2442.019	1.002	0.813	Pass



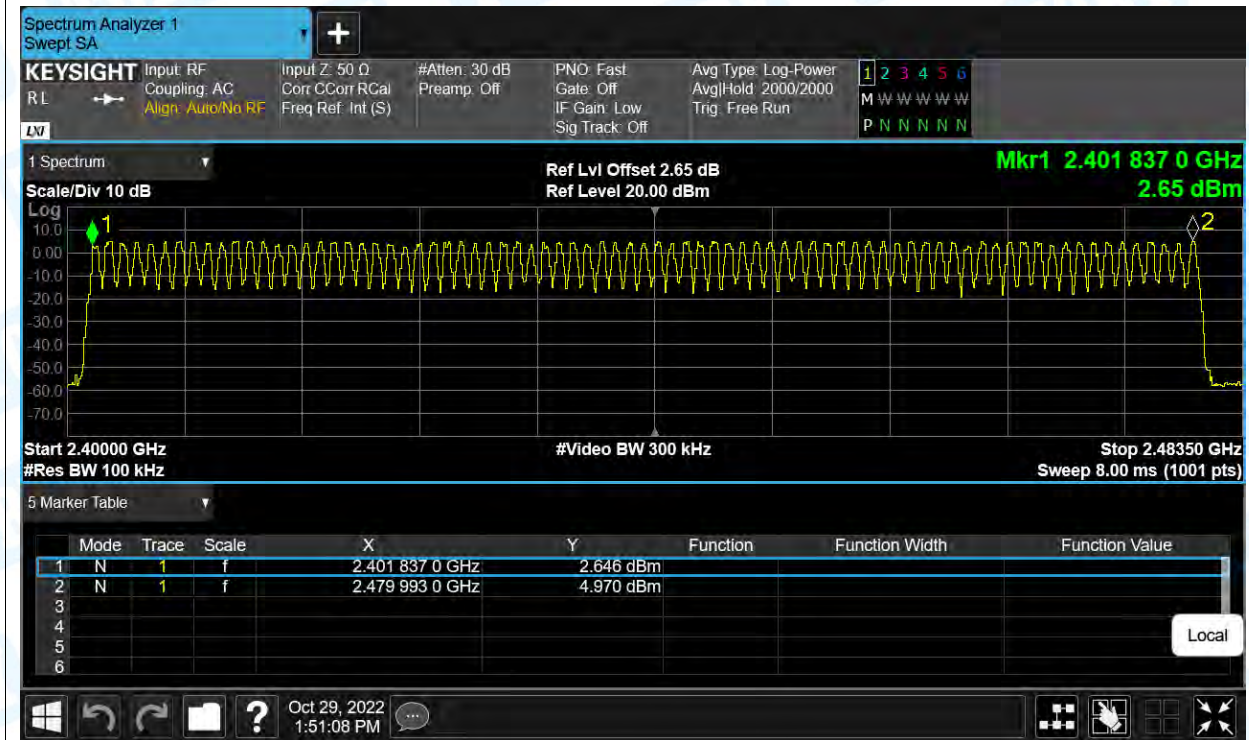


10. Number of Hopping Channel

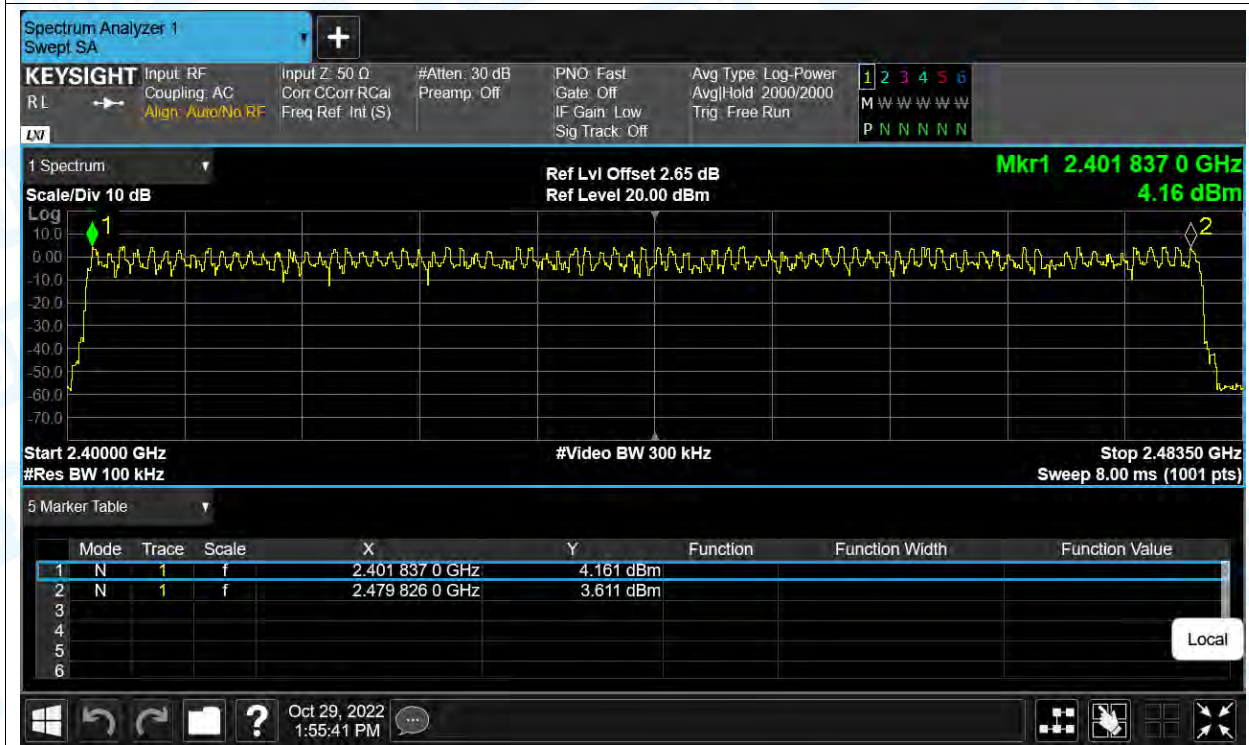
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

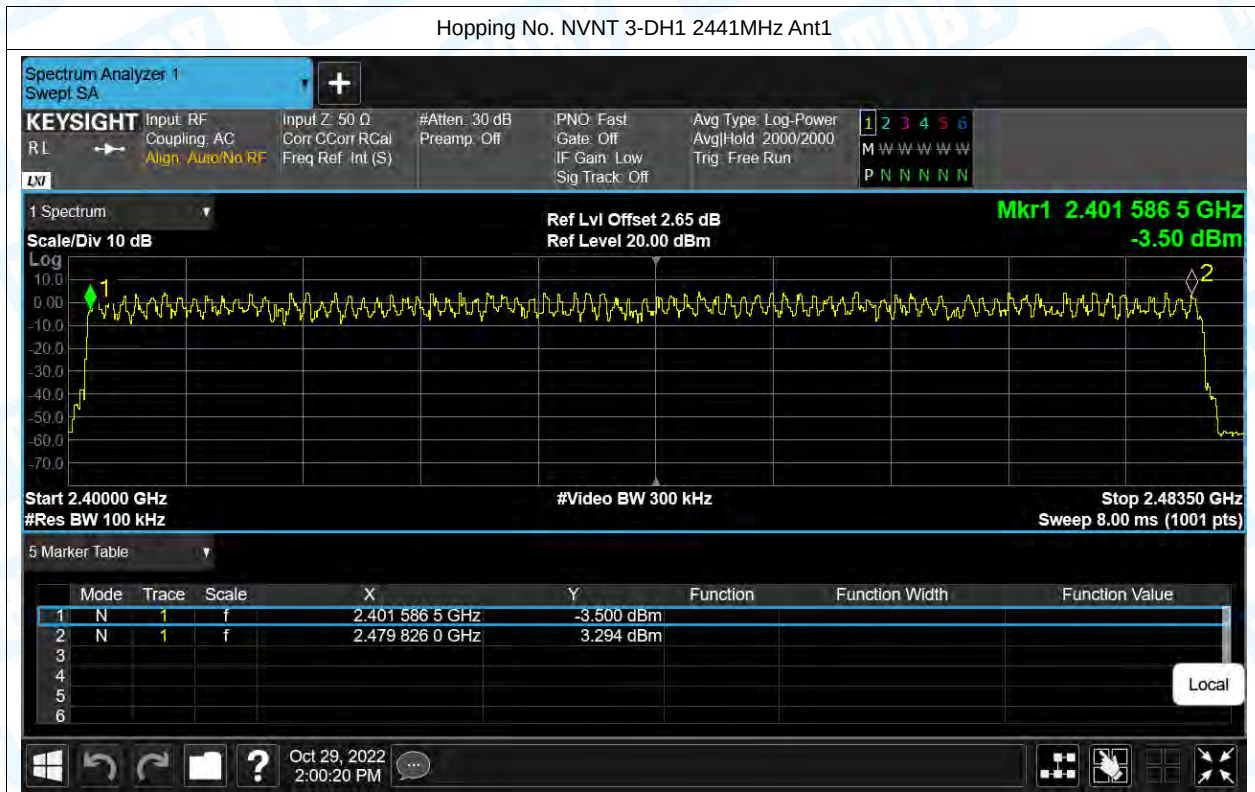
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



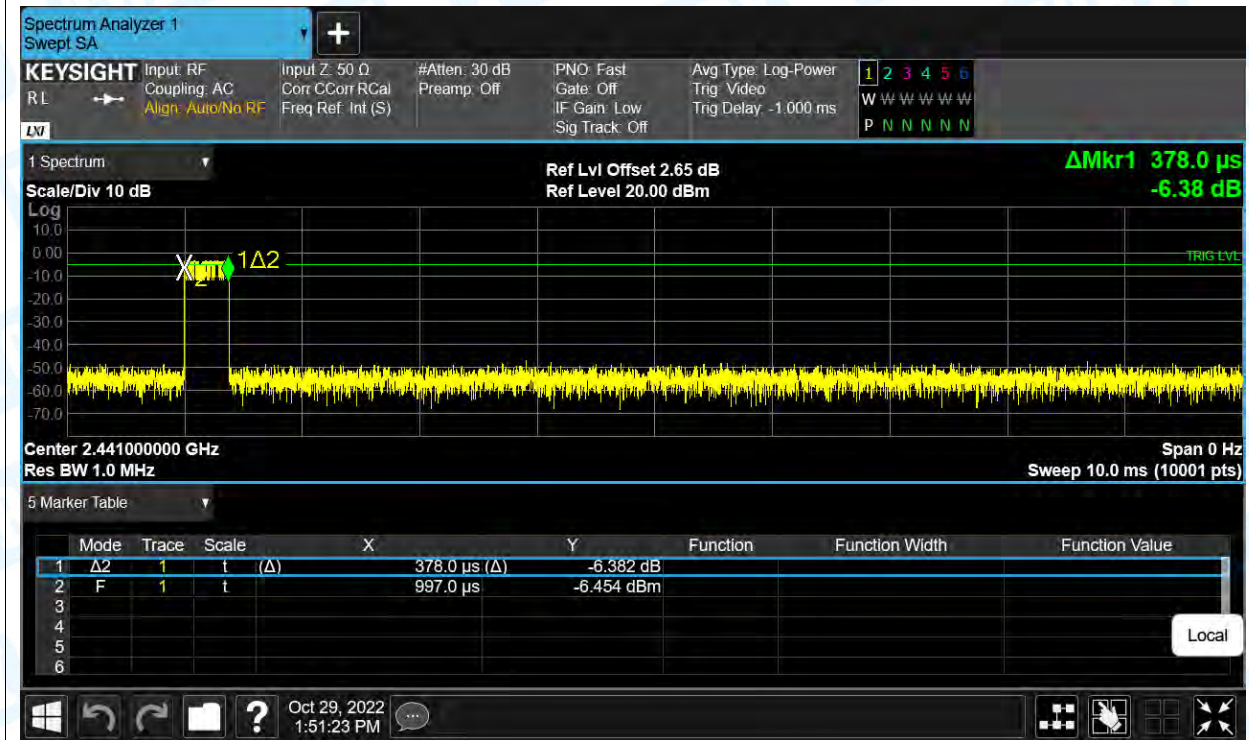


11. Dwell Time

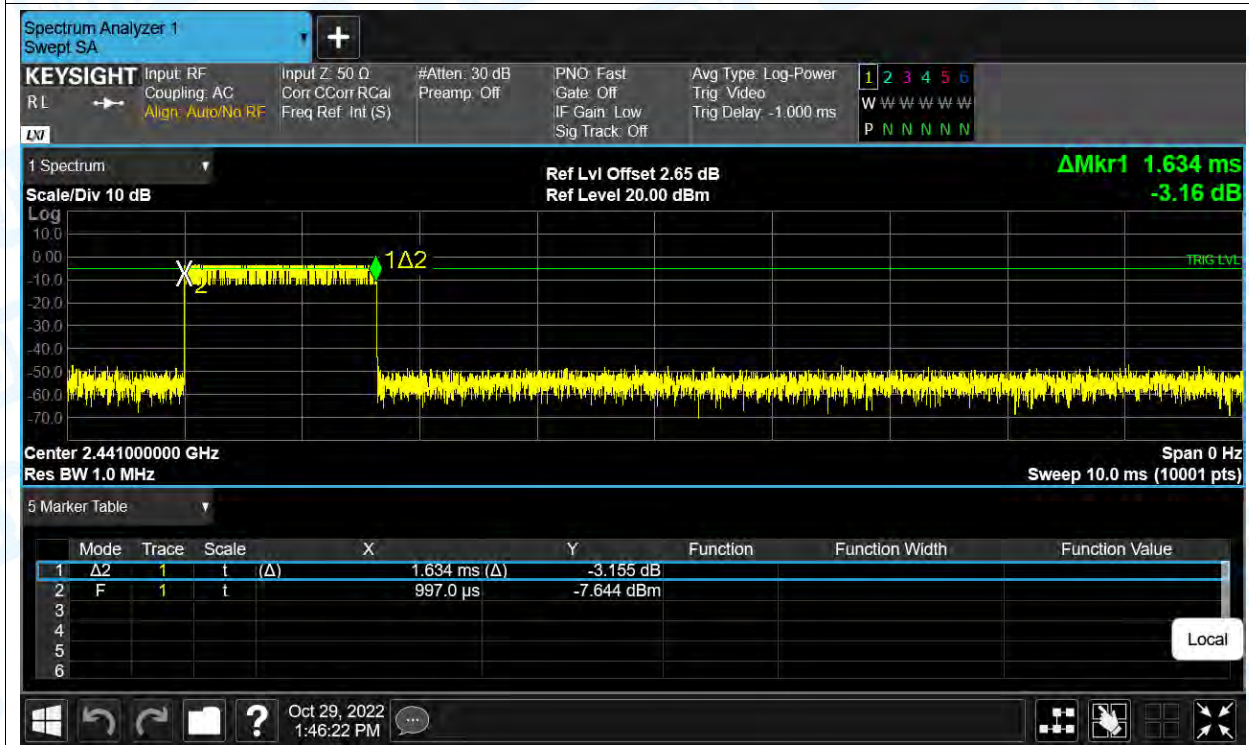
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.378	120.96	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.634	261.44	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.631	260.96	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.635	261.6	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	307.947	31600	400	Pass

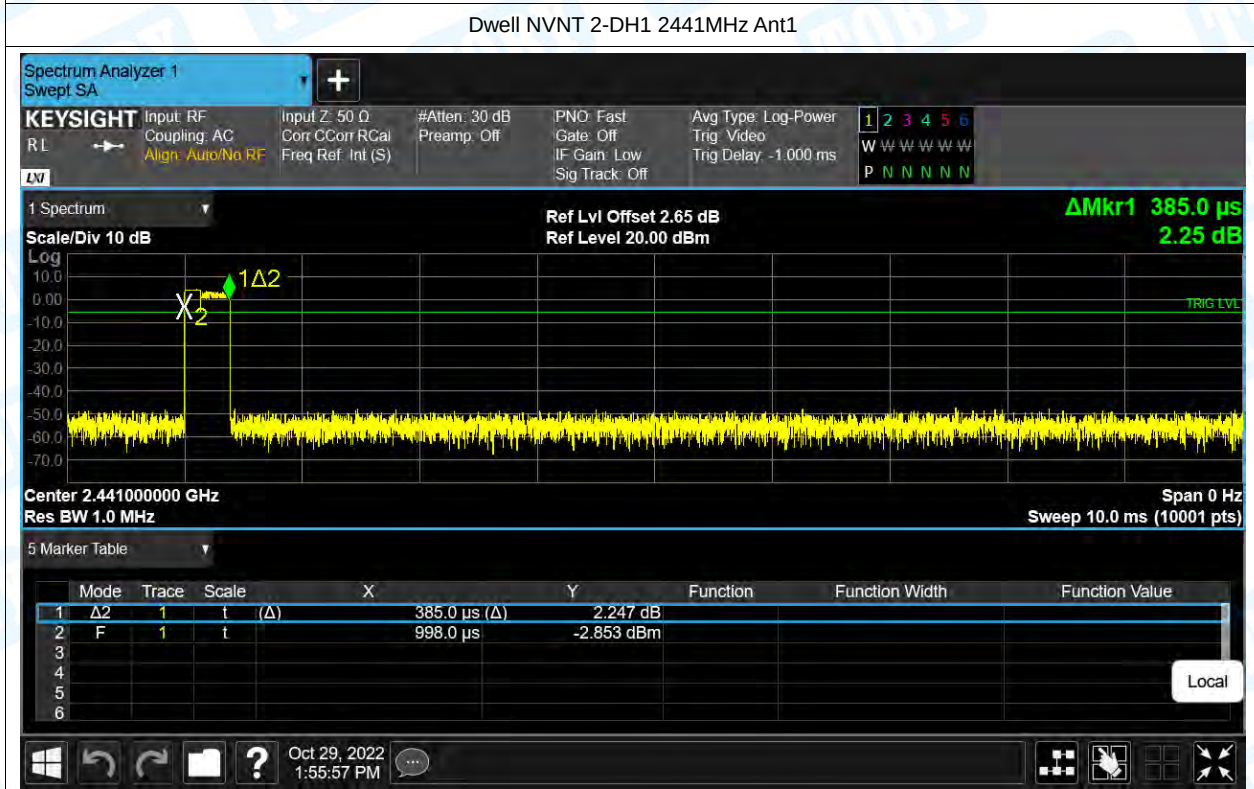
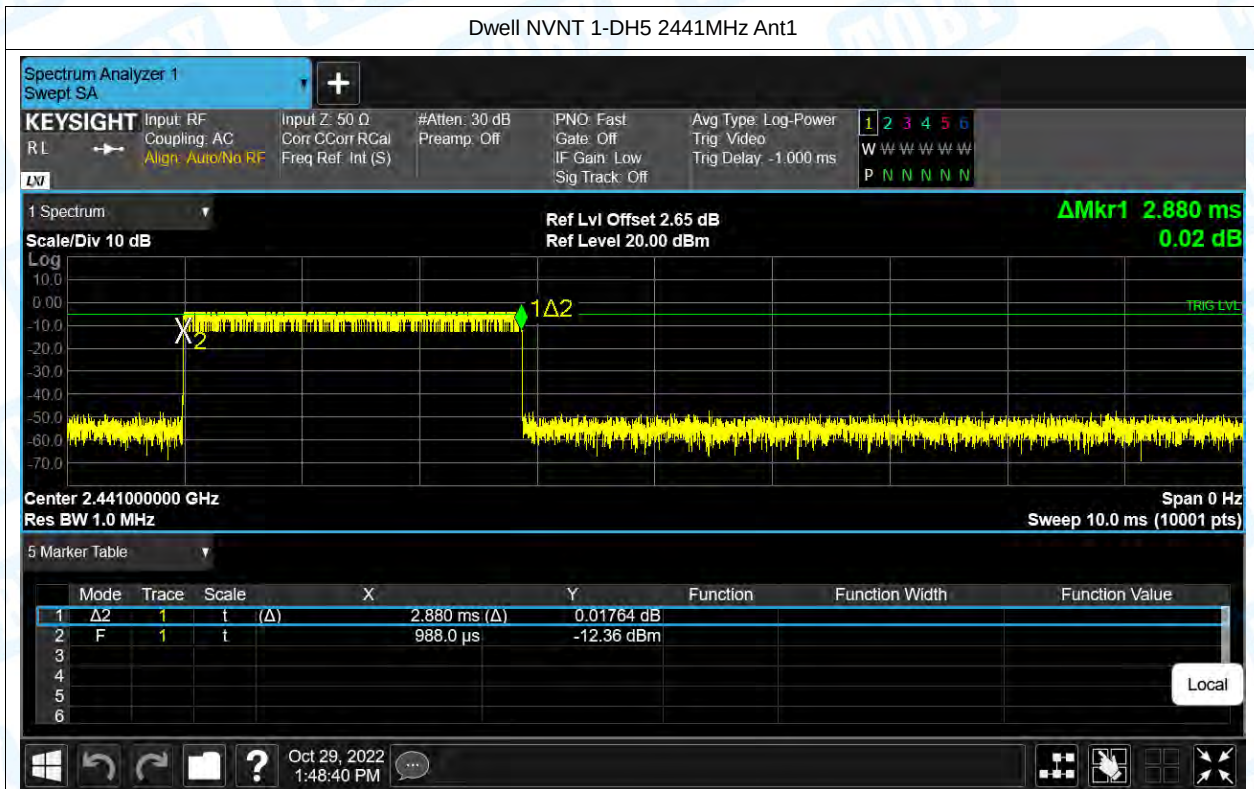
Test Graphs

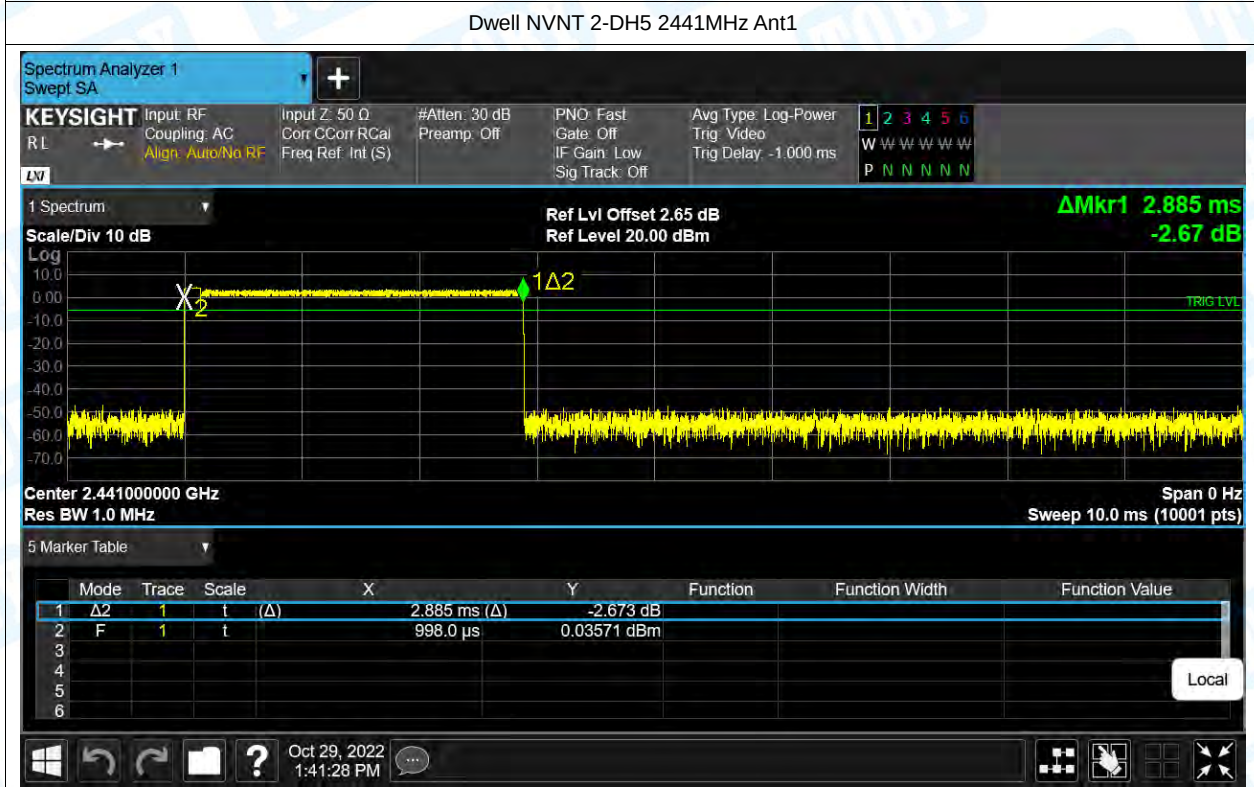
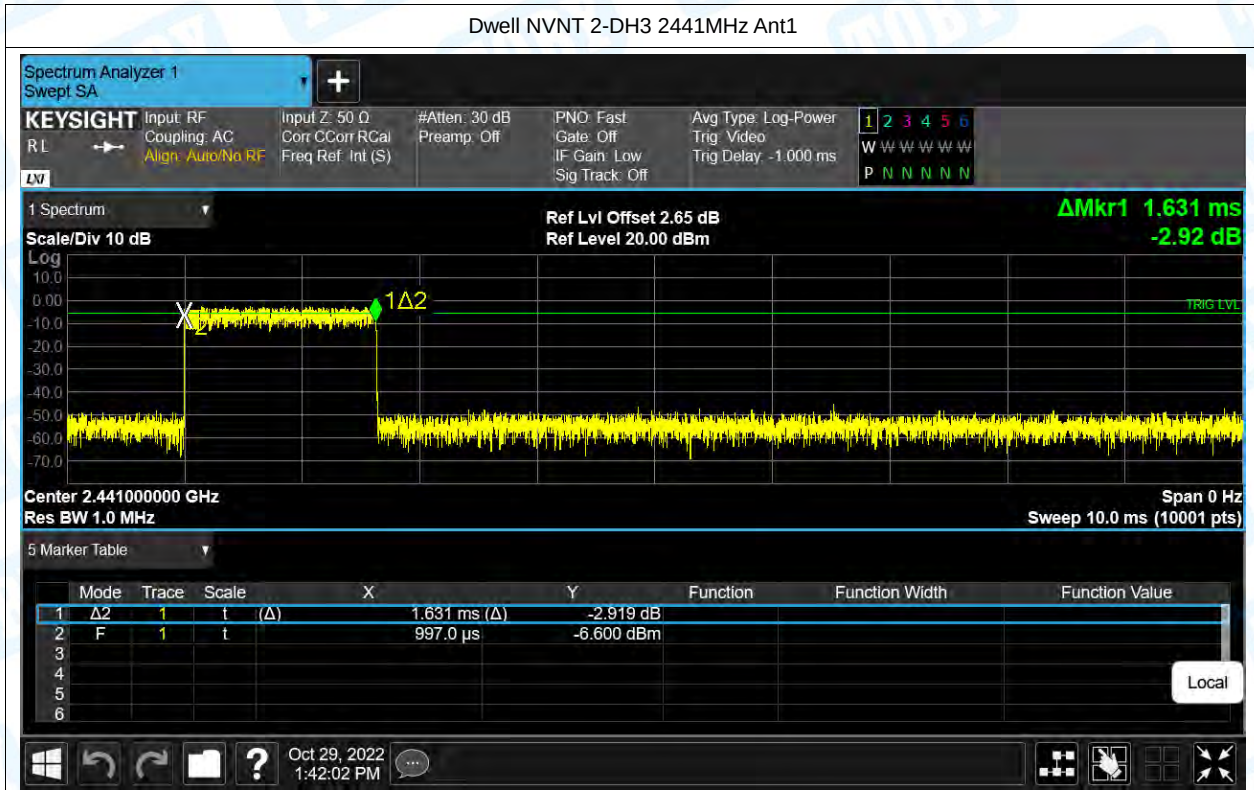
Dwell NVNT 1-DH1 2441MHz Ant1



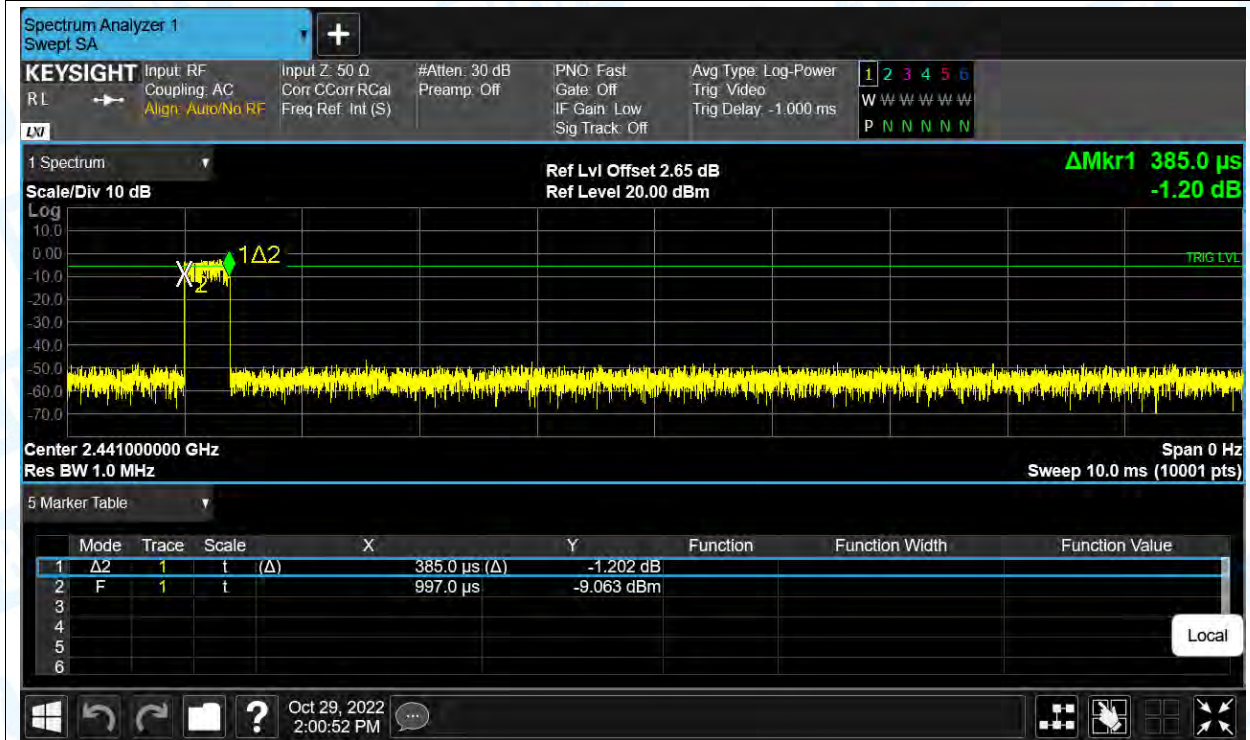
Dwell NVNT 1-DH3 2441MHz Ant1



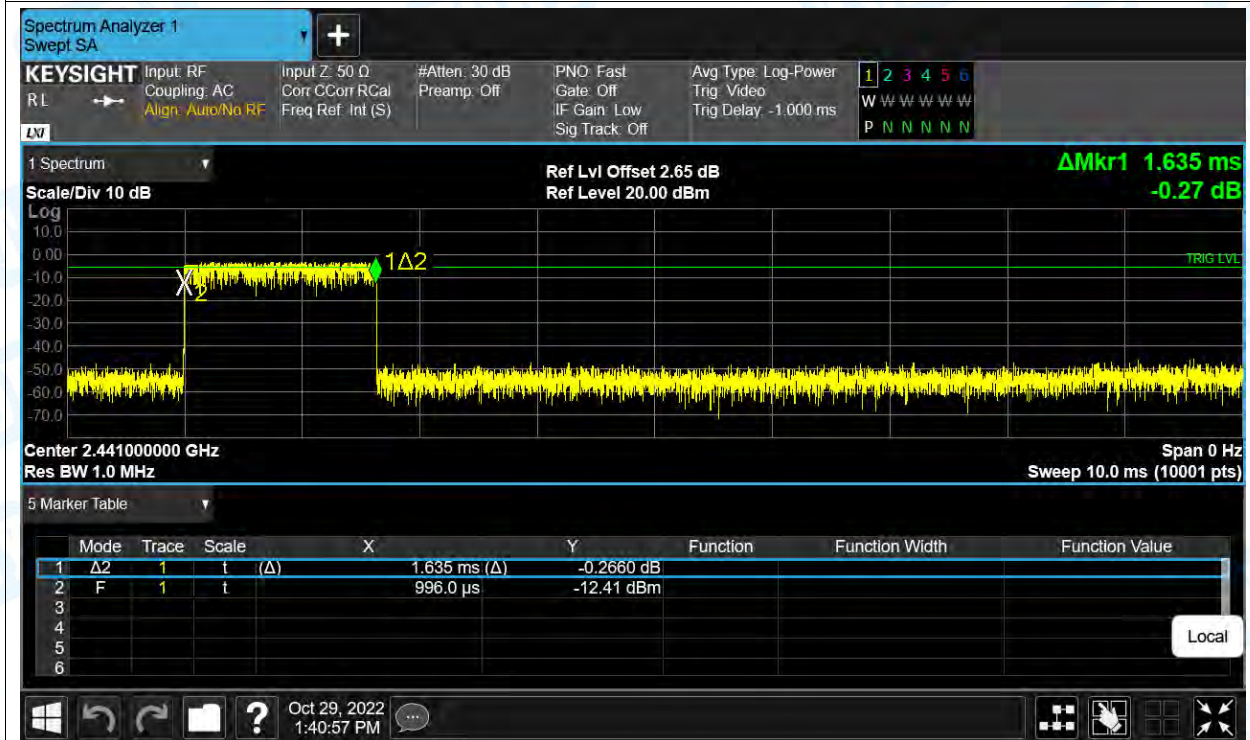


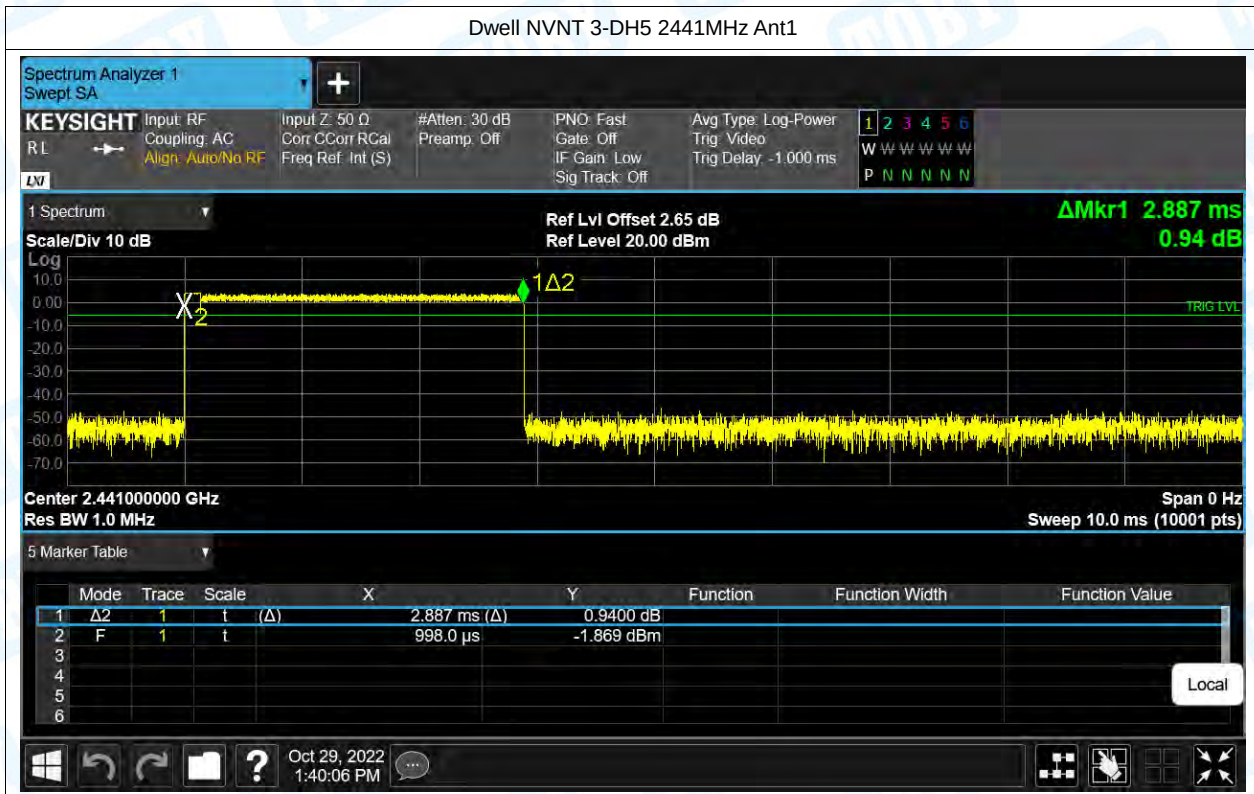


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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