

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

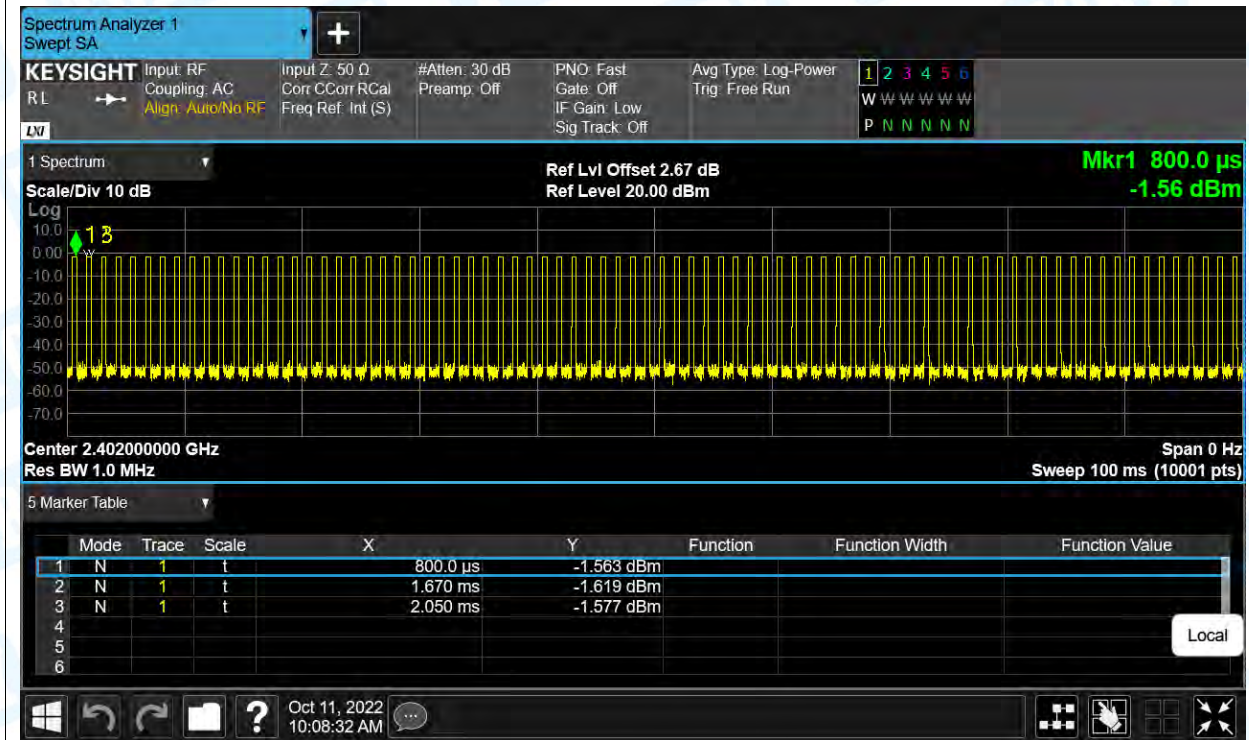
General Description of EUT	
Product Name:	ViewClix Smart Frame
Test Model:	VCF101R
Sample ID:	RW-C-202209-0142-1-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0142-11	

1. Duty Cycle

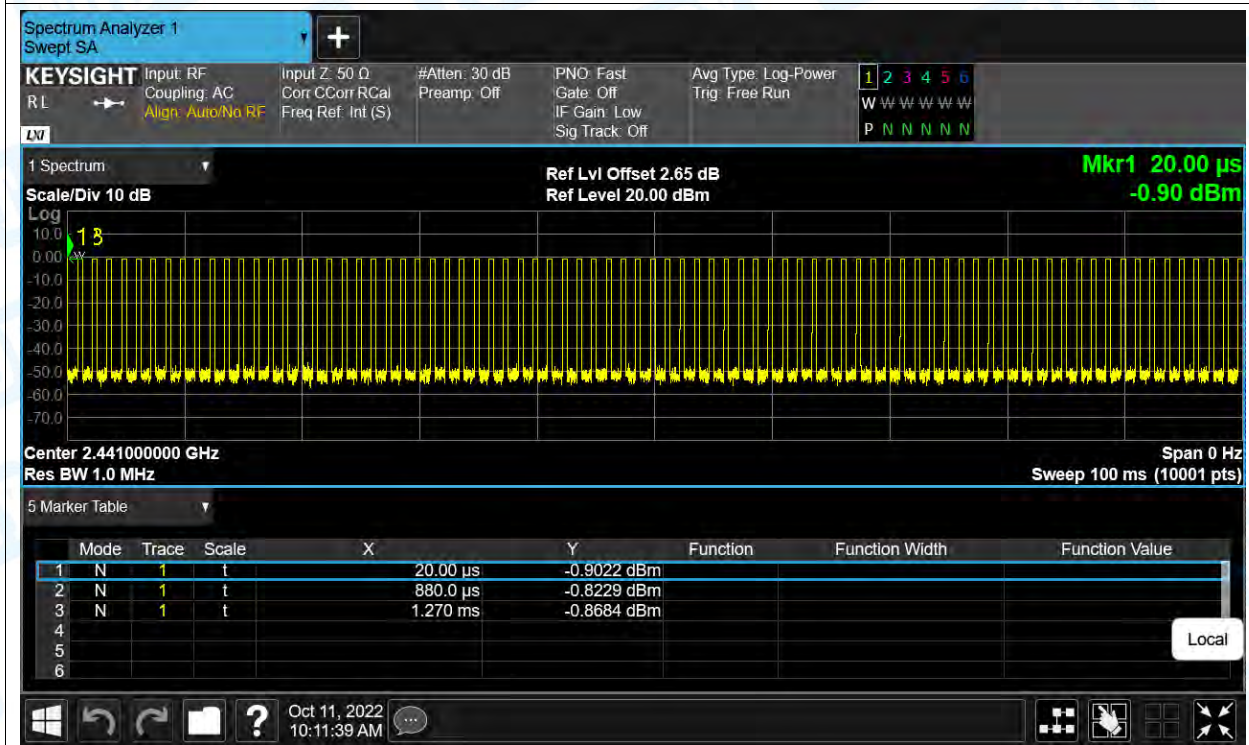
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	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

Test Graphs

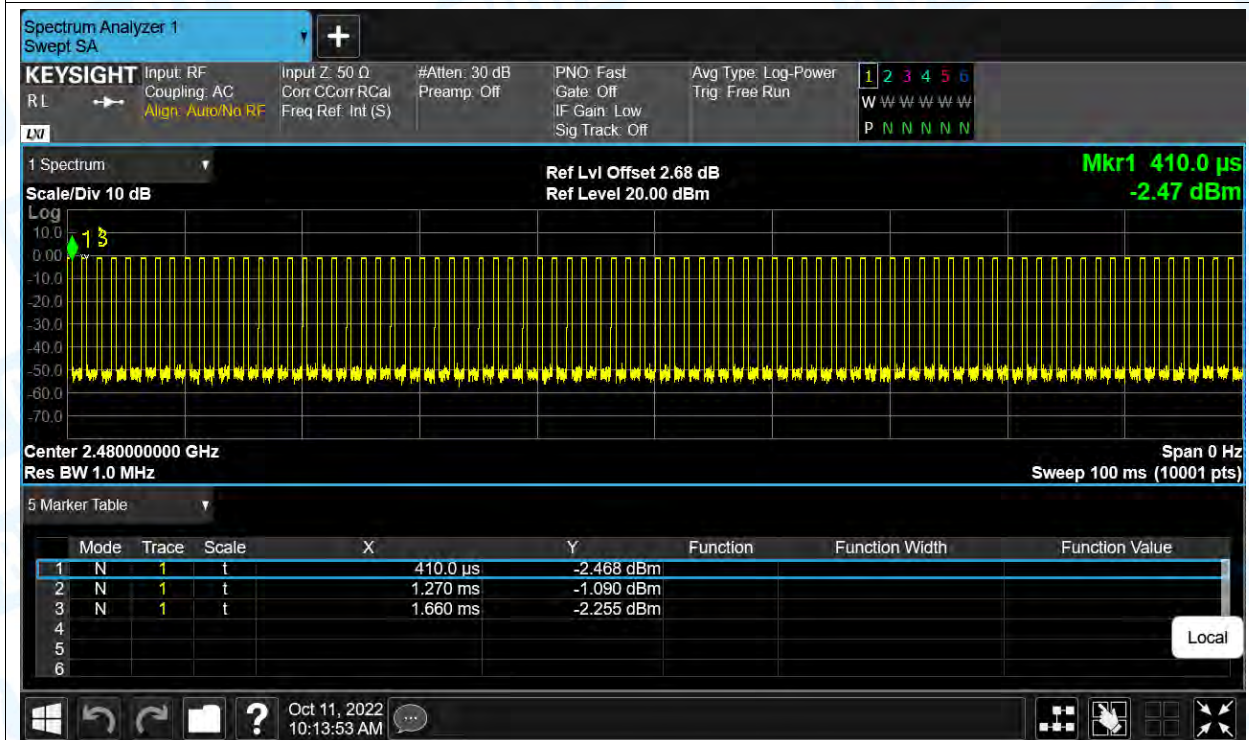
Duty Cycle NVNT 1-DH1 2402MHz Ant1



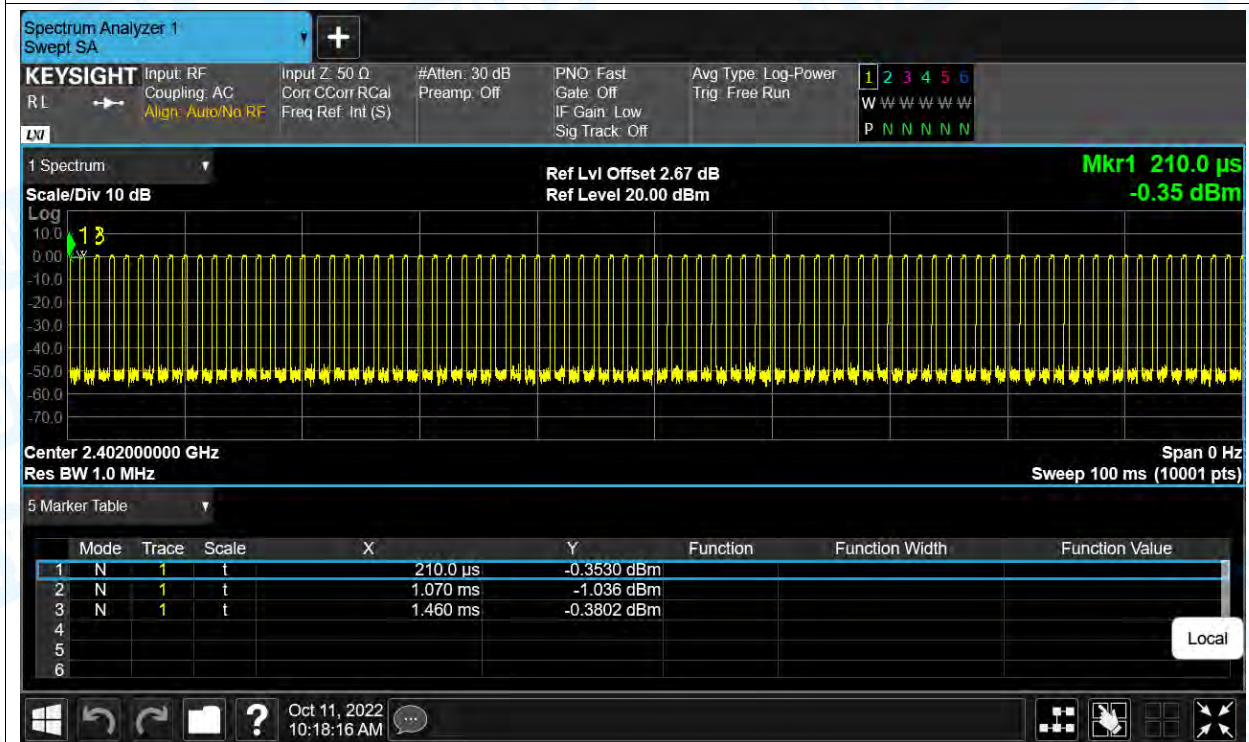
Duty Cycle NVNT 1-DH1 2441MHz Ant1



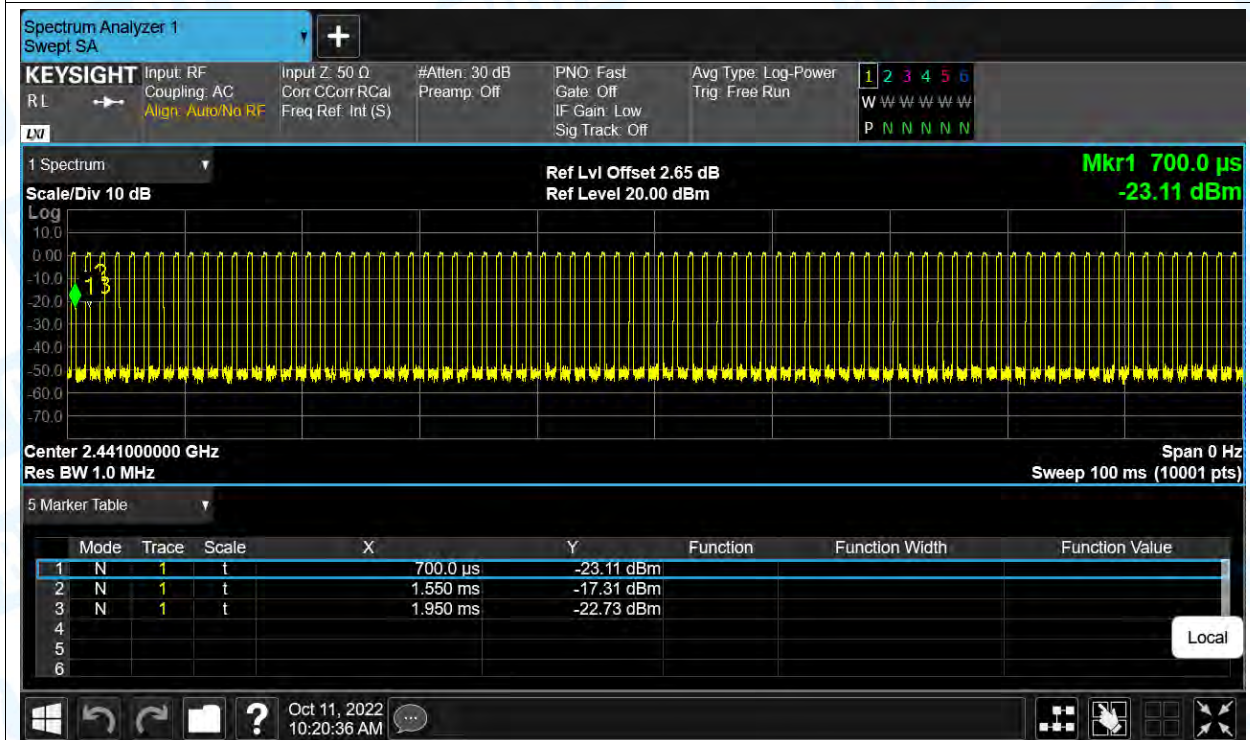
Duty Cycle NVNT 1-DH1 2480MHz Ant1



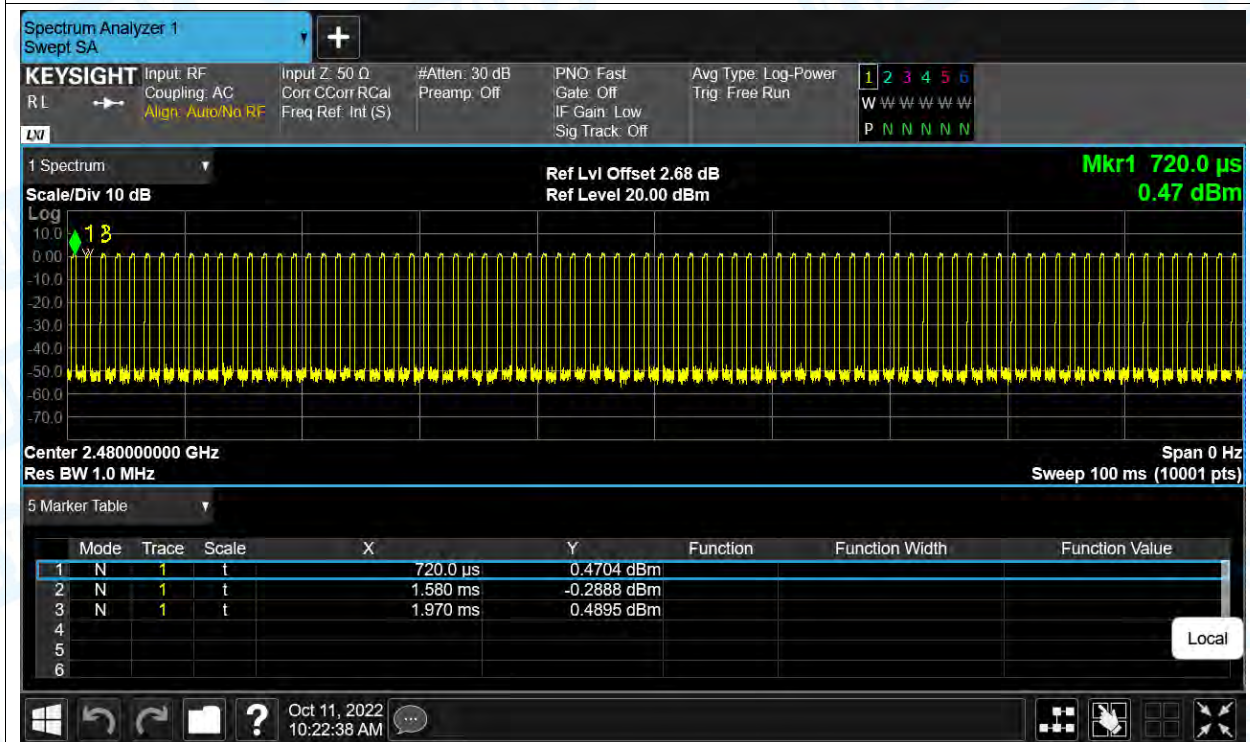
Duty Cycle NVNT 2-DH1 2402MHz Ant1



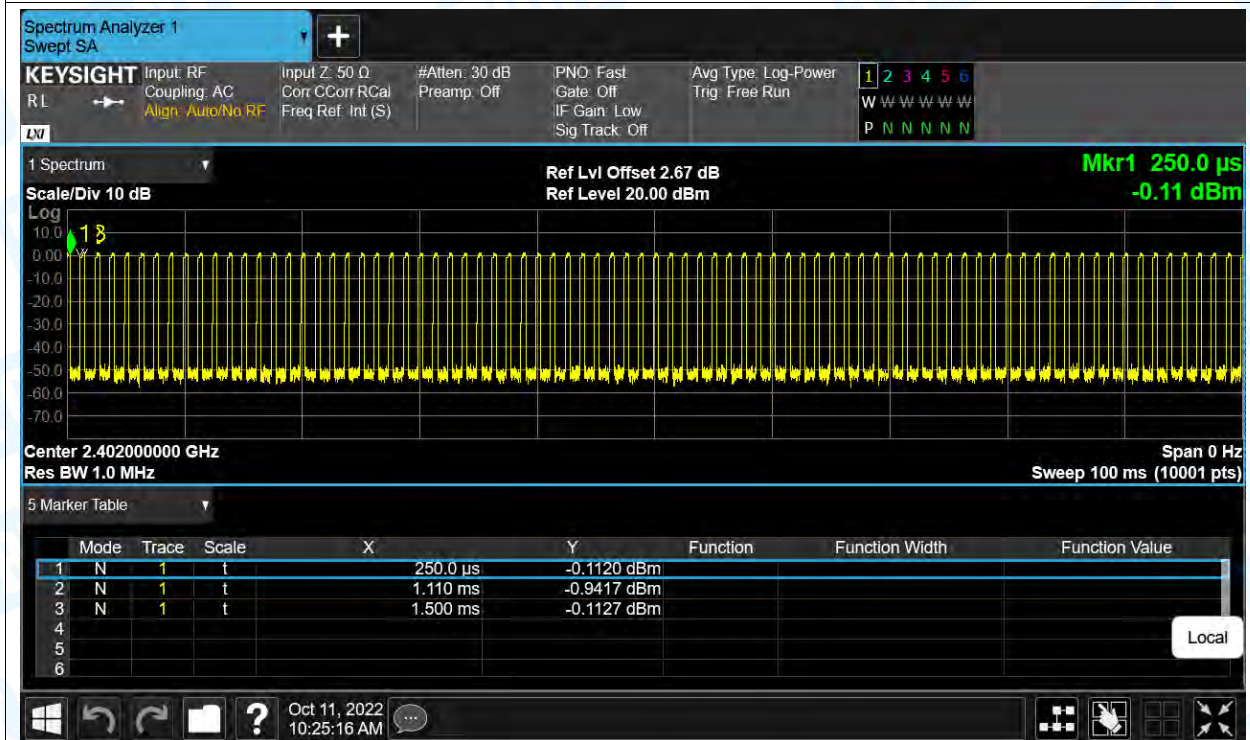
Duty Cycle NVNT 2-DH1 2441MHz Ant1



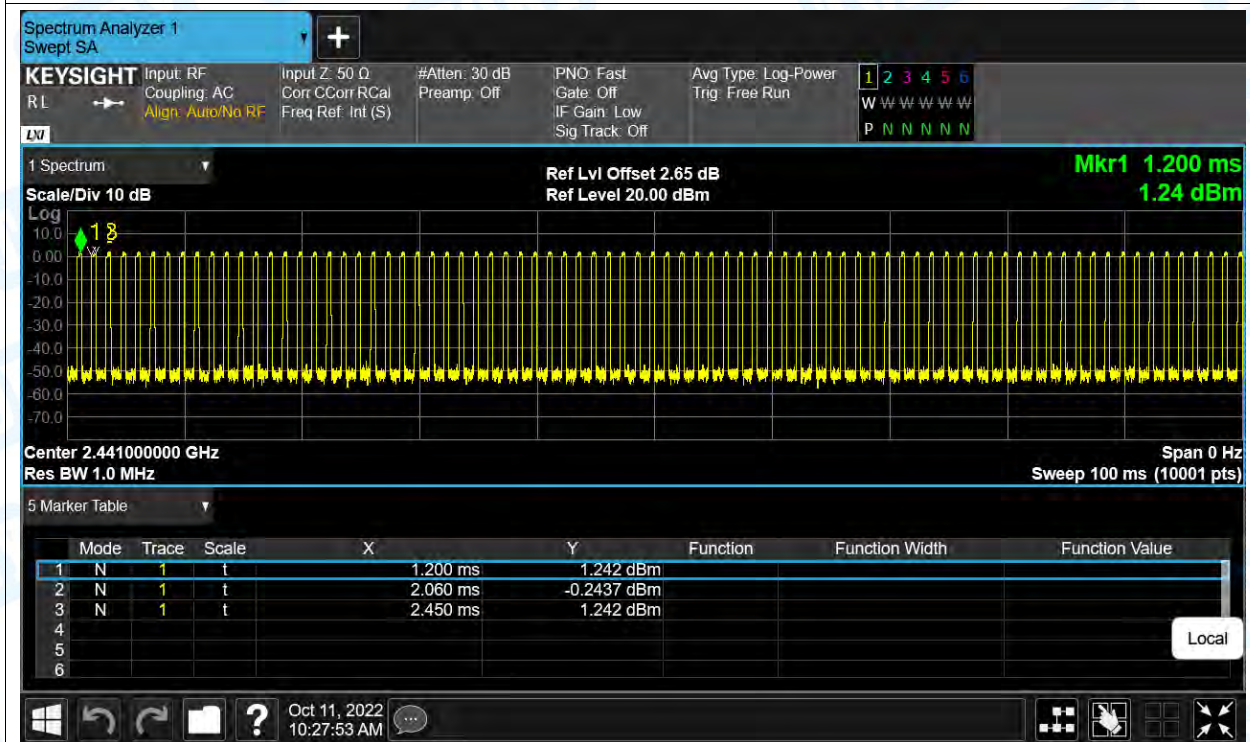
Duty Cycle NVNT 2-DH1 2480MHz Ant1

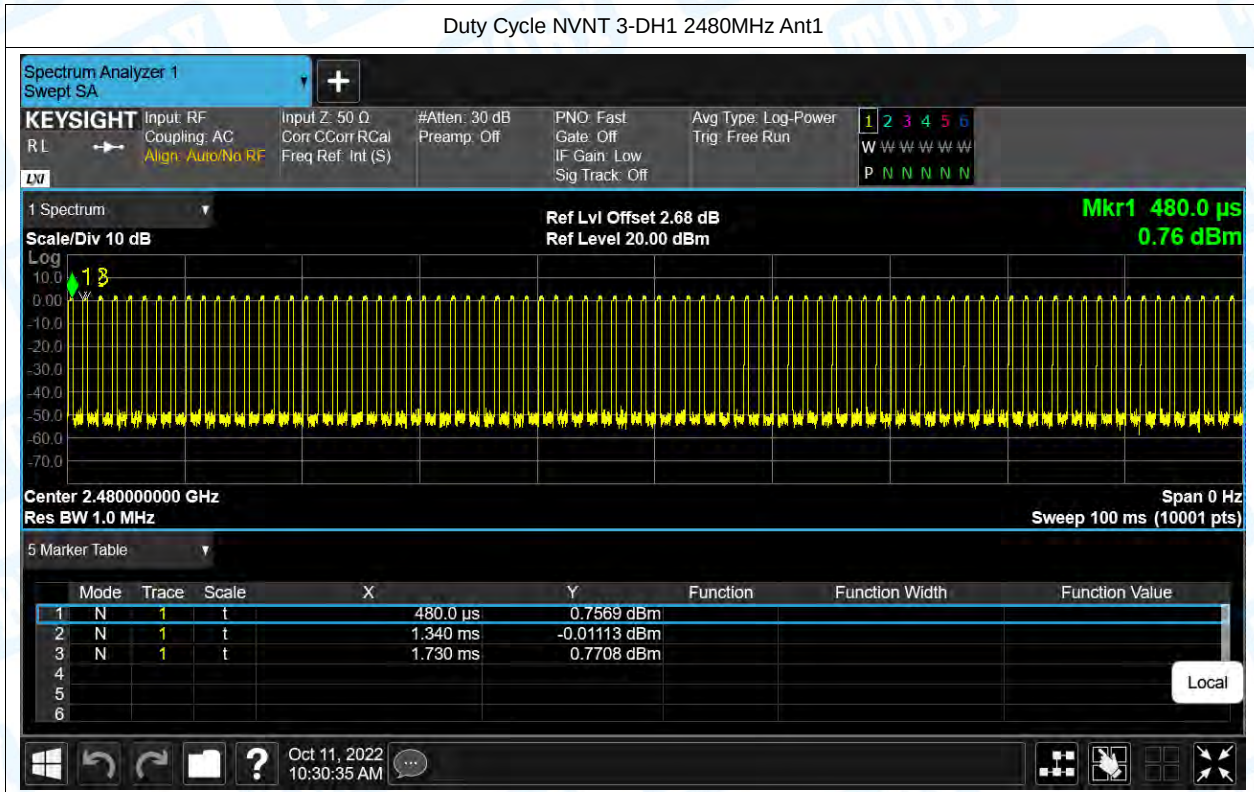


Duty Cycle NVNT 3-DH1 2402MHz Ant1



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	-1.40	21	Pass
NVNT	1-DH1	2441	Ant1	-0.71	21	Pass
NVNT	1-DH1	2480	Ant1	-0.99	21	Pass
NVNT	2-DH1	2402	Ant1	1.14	21	Pass
NVNT	2-DH1	2441	Ant1	1.77	21	Pass
NVNT	2-DH1	2480	Ant1	1.83	21	Pass
NVNT	3-DH1	2402	Ant1	1.77	21	Pass
NVNT	3-DH1	2441	Ant1	2.54	21	Pass
NVNT	3-DH1	2480	Ant1	2.57	21	Pass

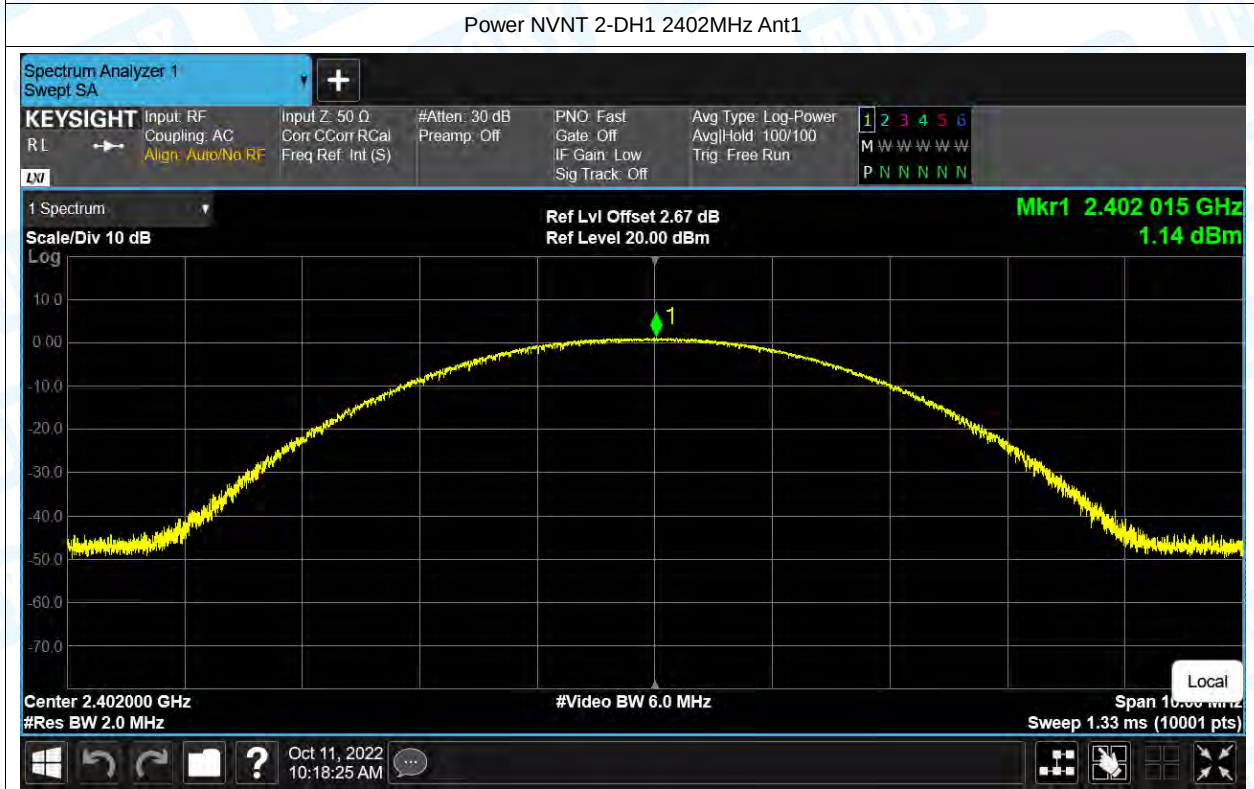
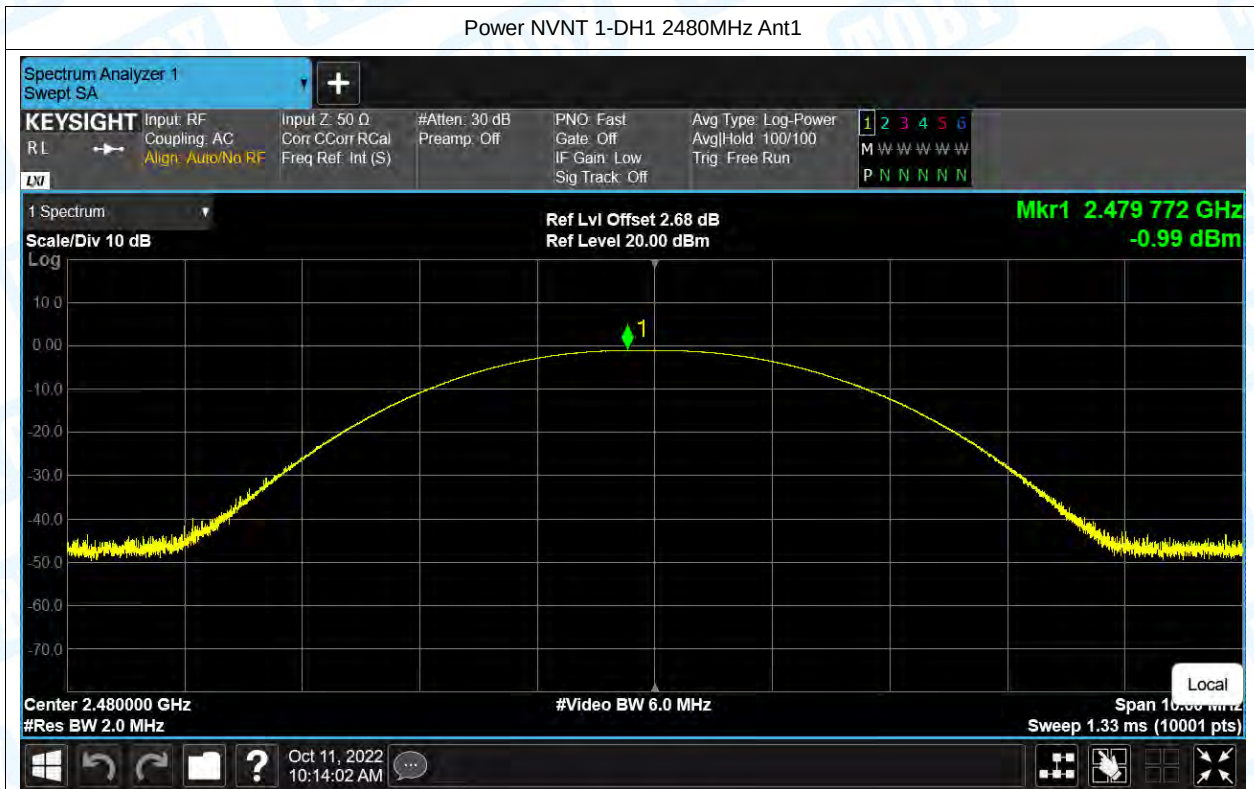
Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1





Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1

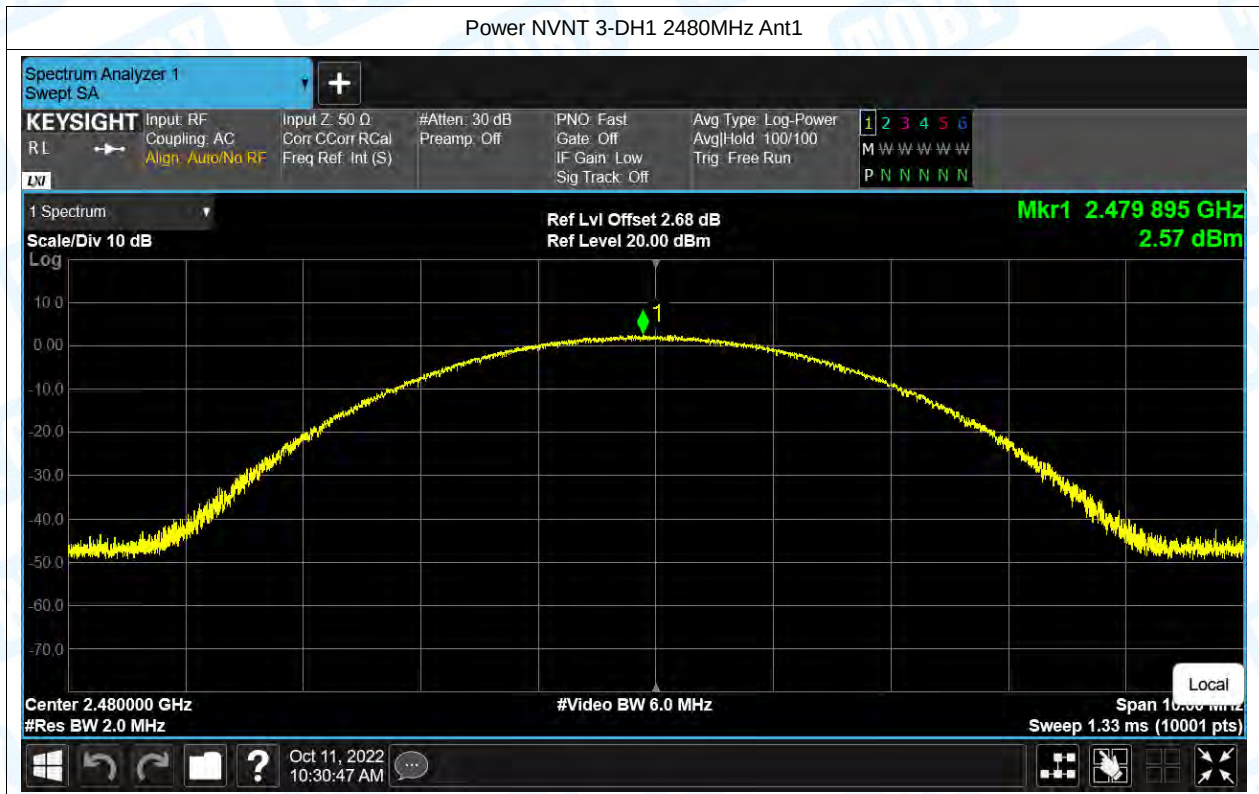


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1





3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.04	----	Pass
NVNT	1-DH1	2441	Ant1	1.04	----	Pass
NVNT	1-DH1	2480	Ant1	1.05	----	Pass
NVNT	2-DH1	2402	Ant1	1.35	----	Pass
NVNT	2-DH1	2441	Ant1	1.35	----	Pass
NVNT	2-DH1	2480	Ant1	1.35	----	Pass
NVNT	3-DH1	2402	Ant1	1.30	----	Pass
NVNT	3-DH1	2441	Ant1	1.32	----	Pass
NVNT	3-DH1	2480	Ant1	1.31	----	Pass

Test Graphs

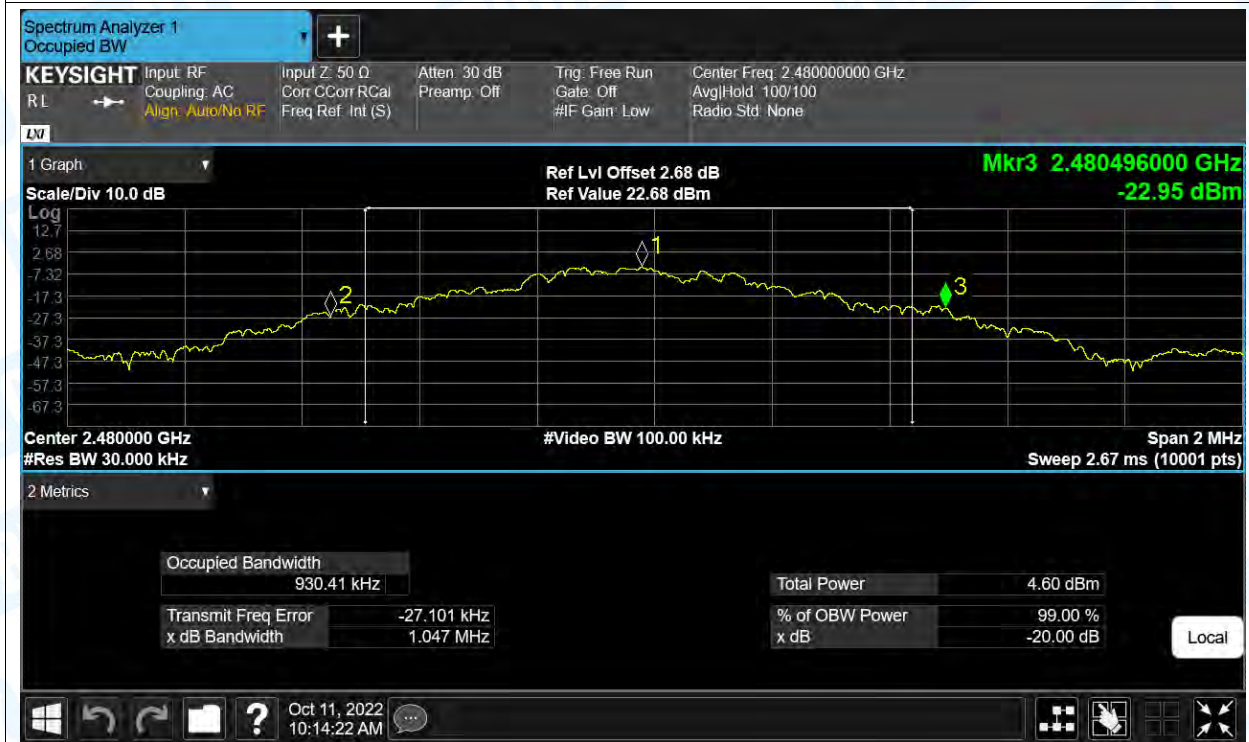
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



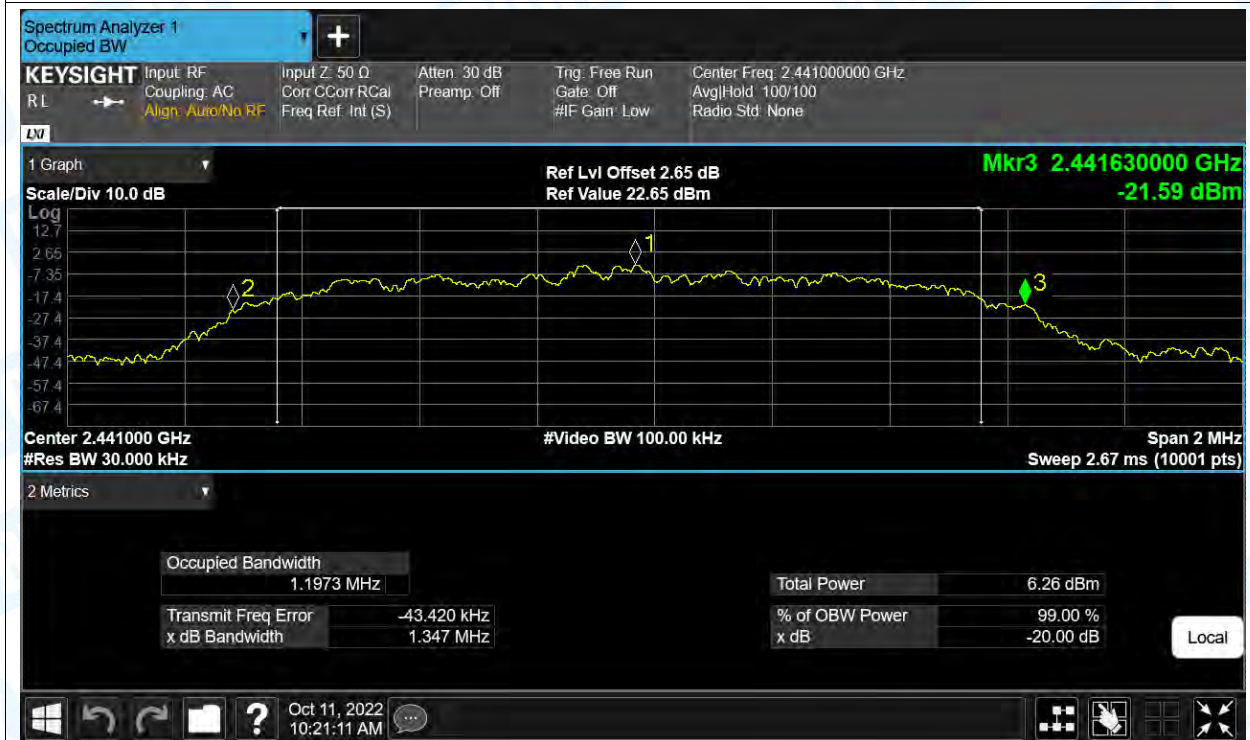
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



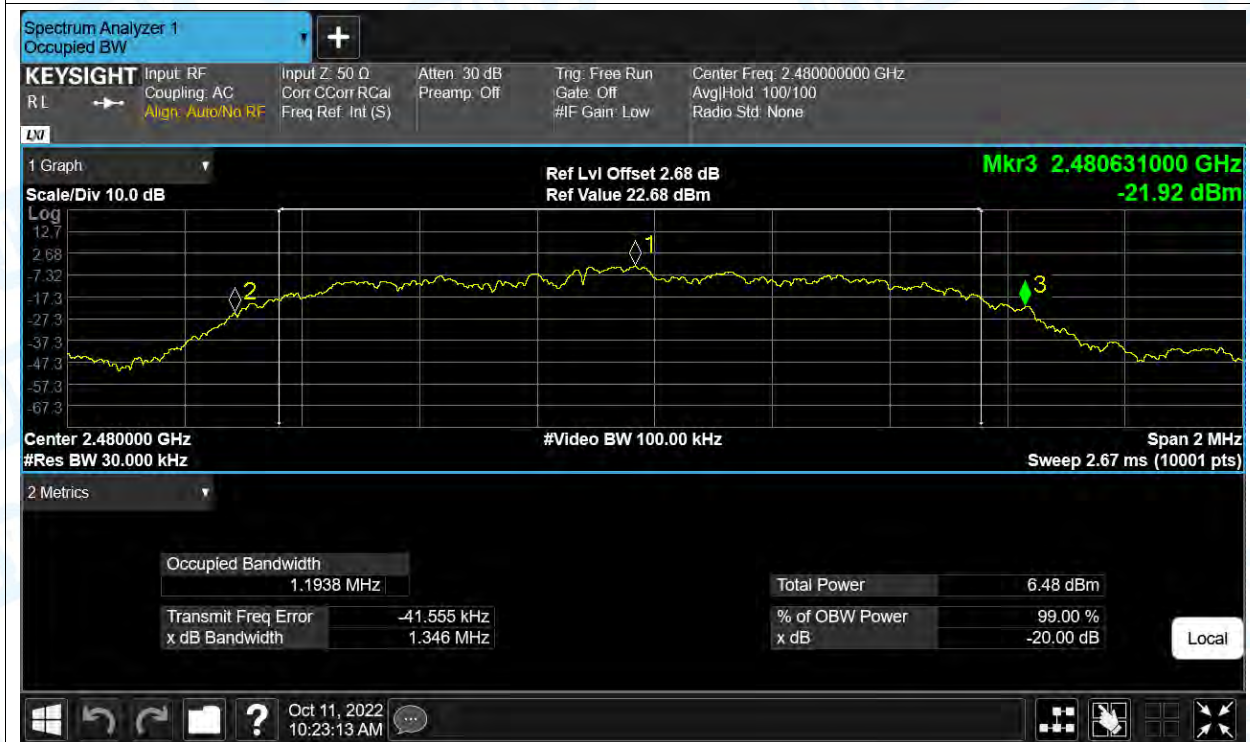
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



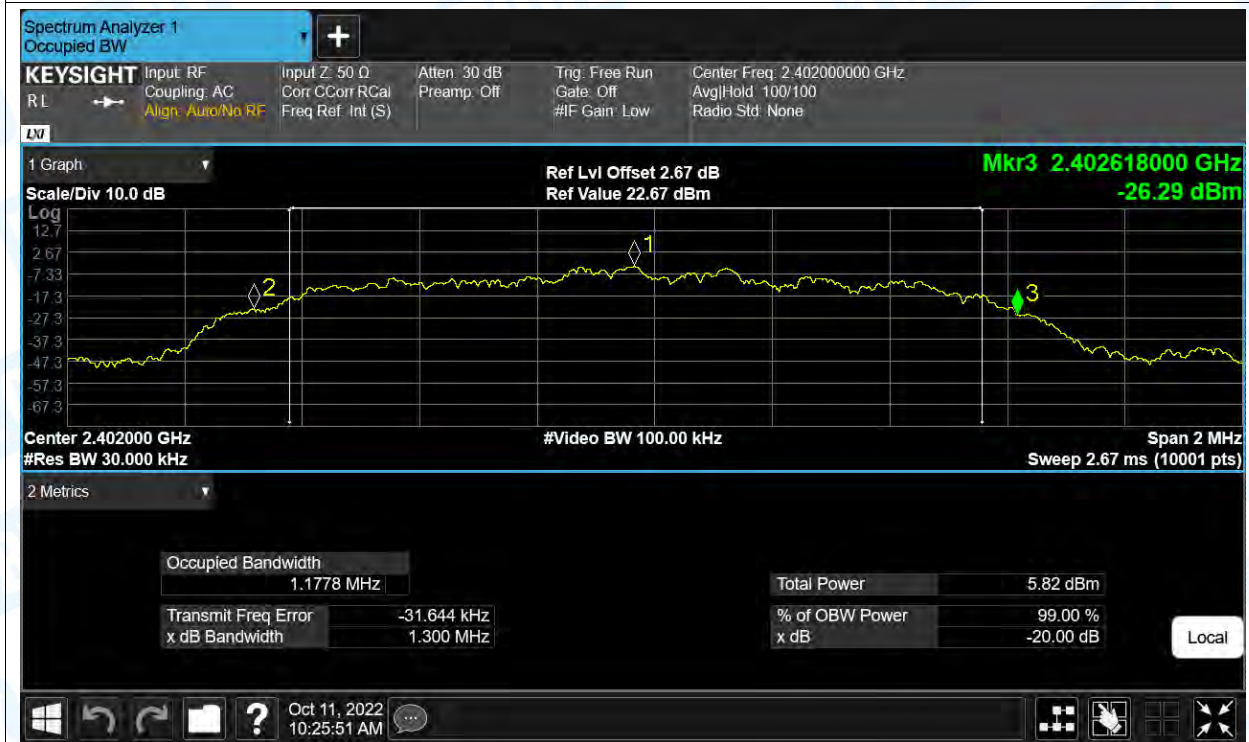
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



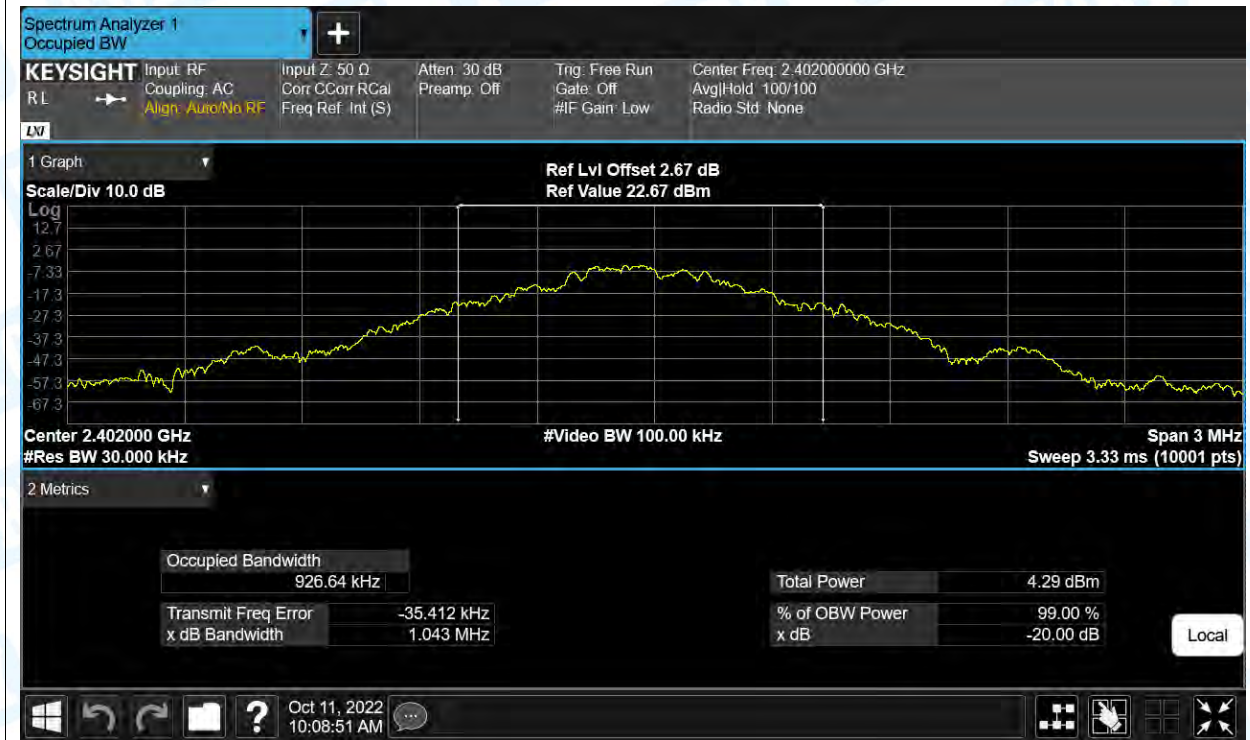


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.927
NVNT	1-DH1	2441	Ant1	0.943
NVNT	1-DH1	2480	Ant1	0.918
NVNT	2-DH1	2402	Ant1	1.199
NVNT	2-DH1	2441	Ant1	1.201
NVNT	2-DH1	2480	Ant1	1.185
NVNT	3-DH1	2402	Ant1	1.18
NVNT	3-DH1	2441	Ant1	1.186
NVNT	3-DH1	2480	Ant1	1.176

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



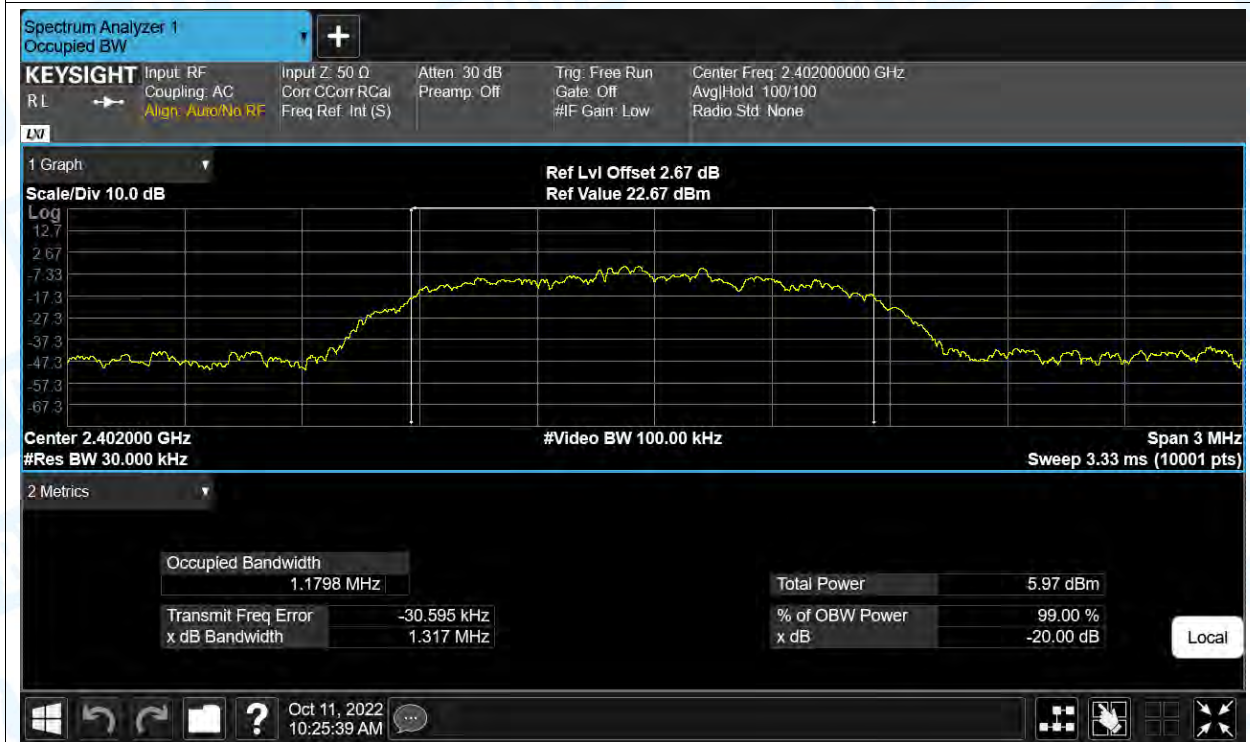
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

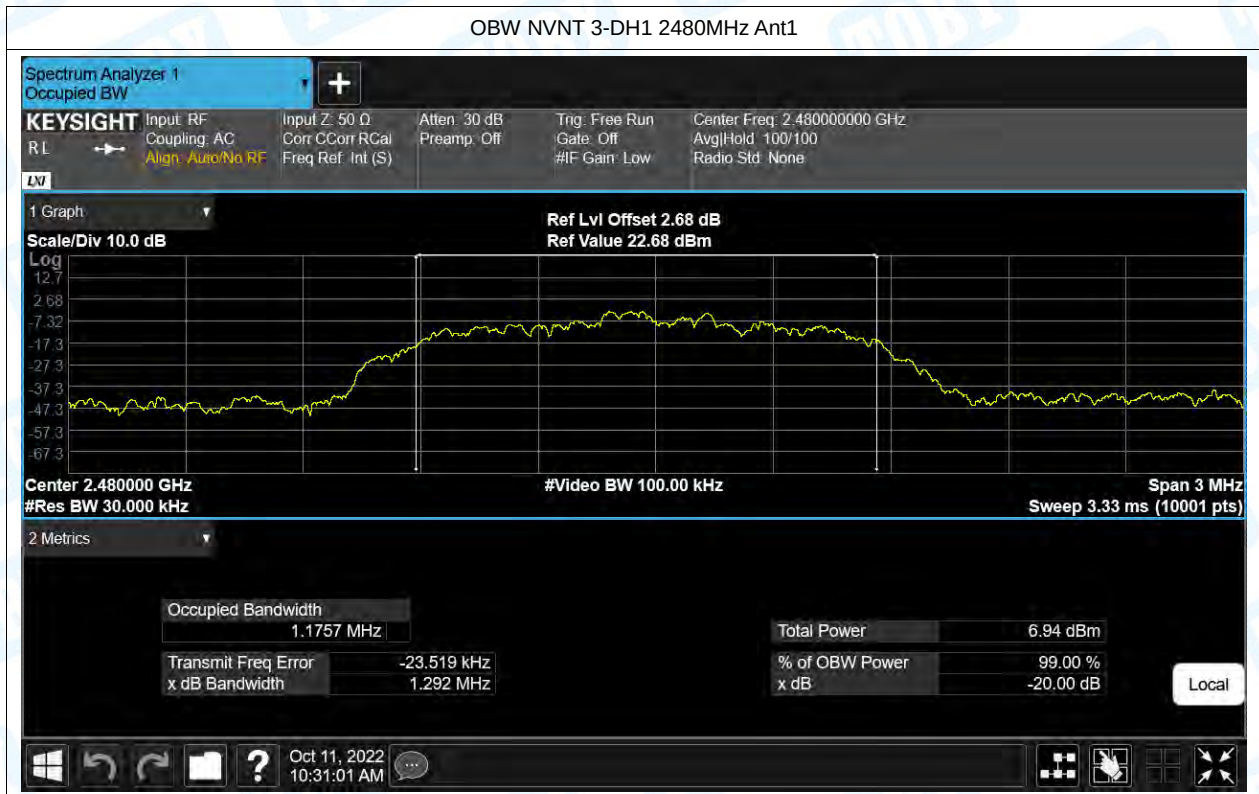


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



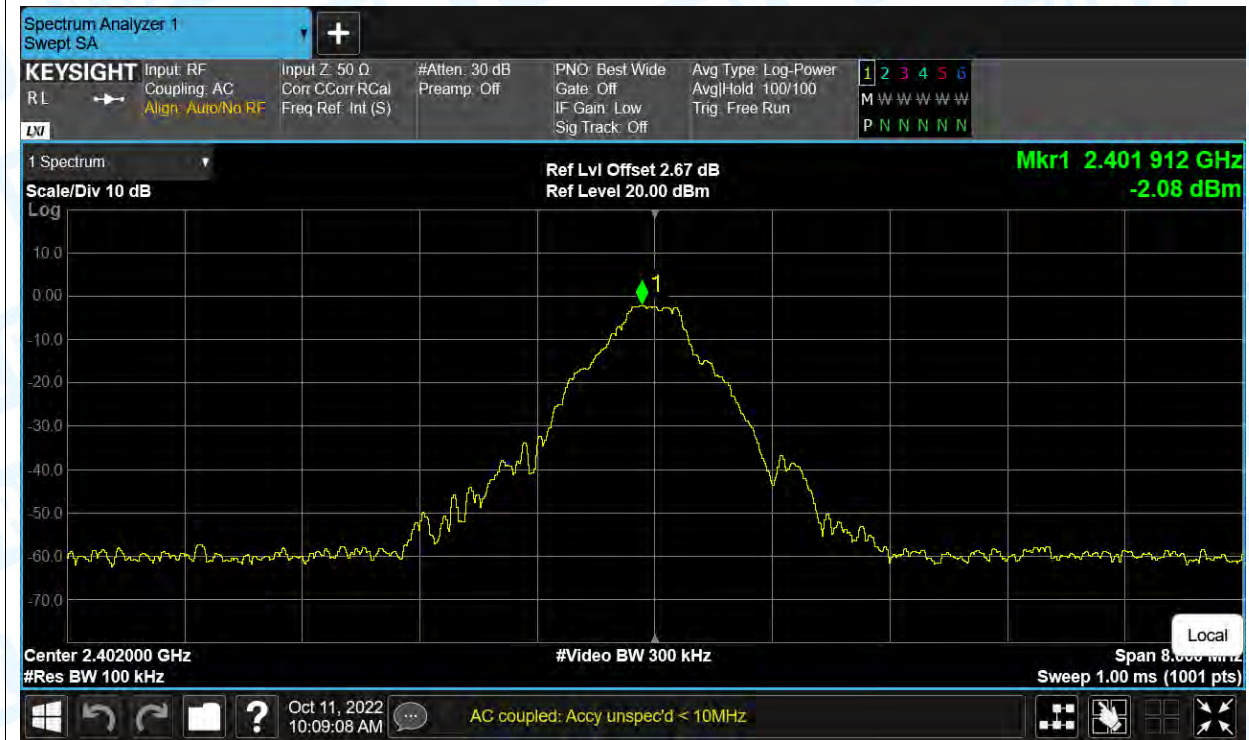


5. Band Edge

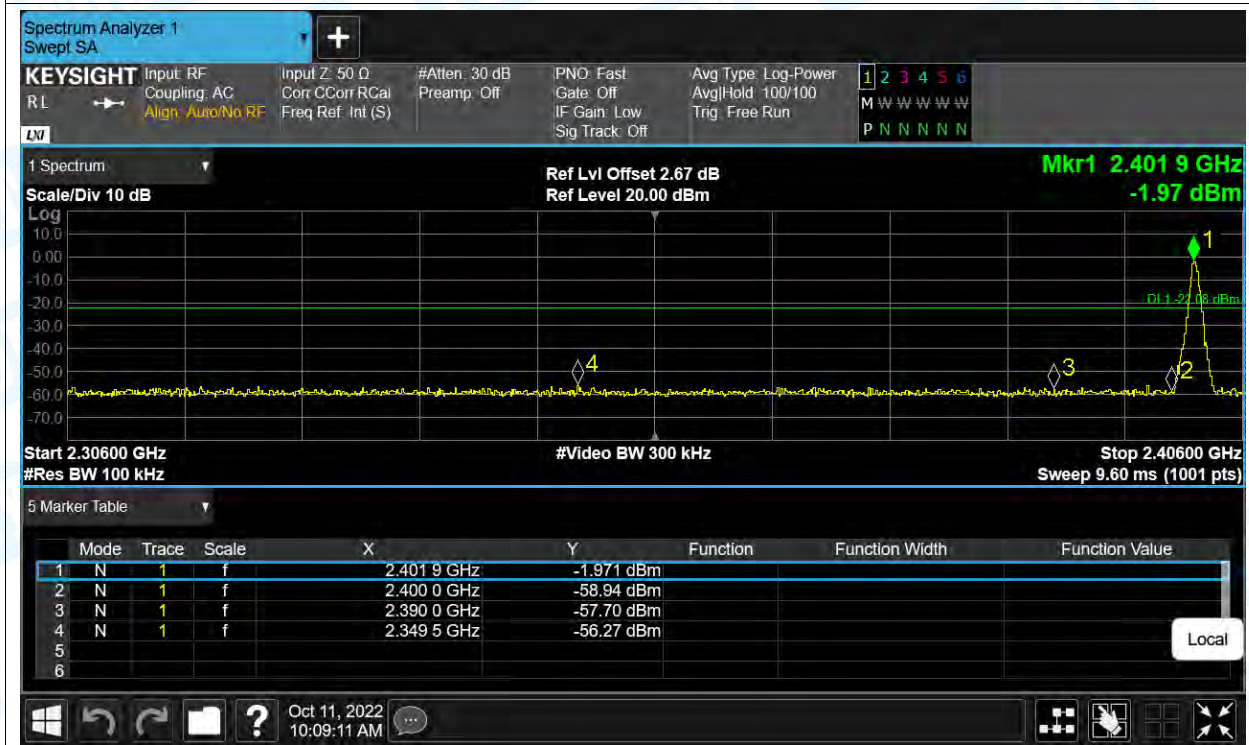
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.19	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.53	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.9	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.87	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-54.47	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-55.7	-20	Pass

Test Graphs

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



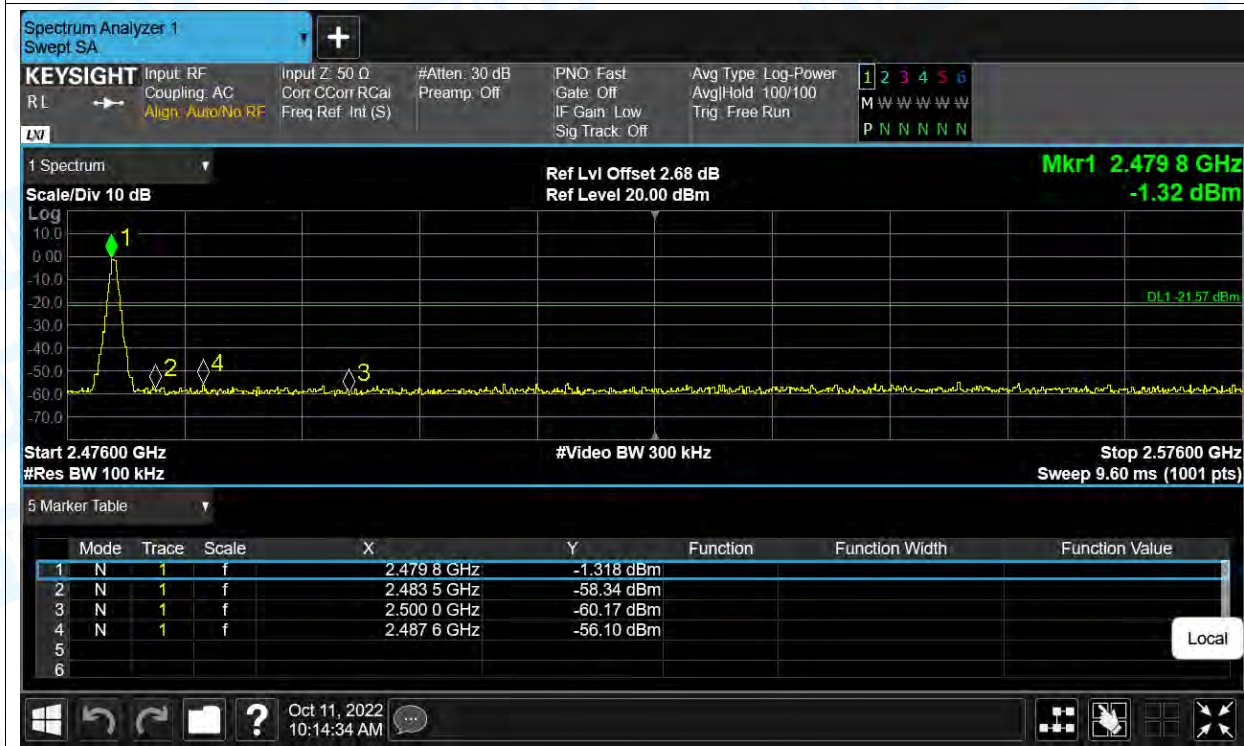
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



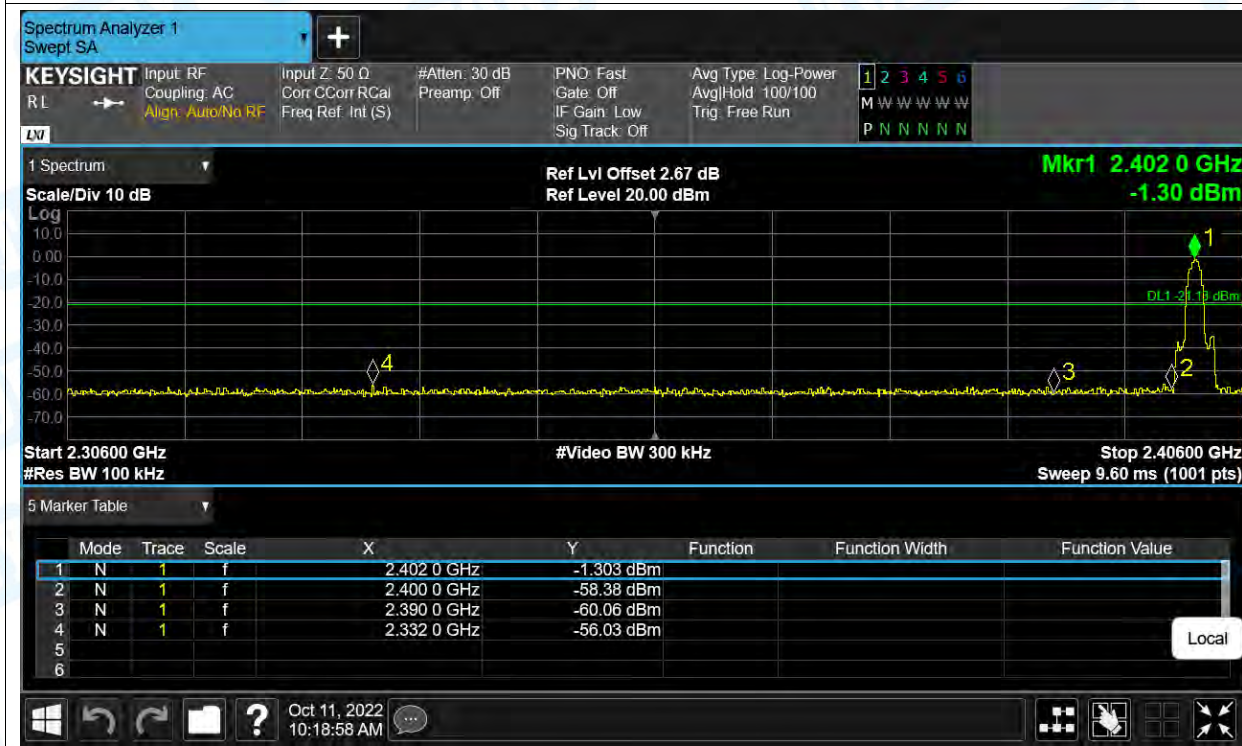
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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



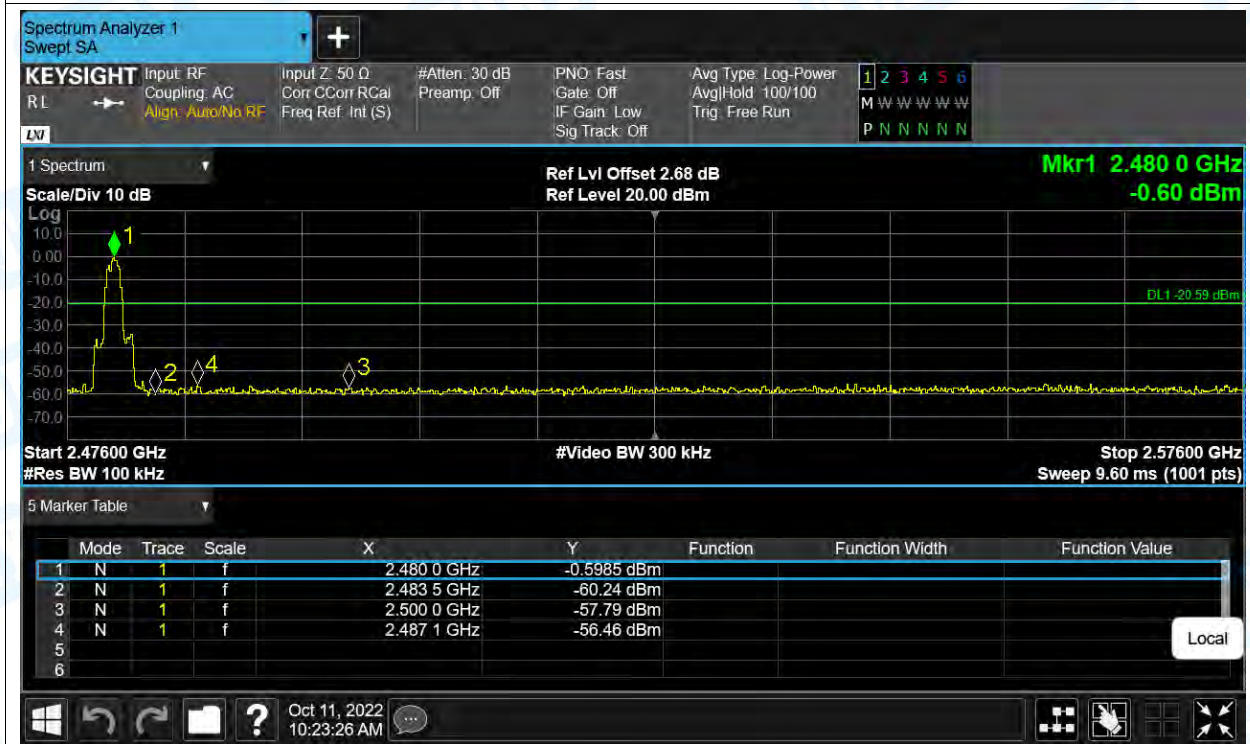
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



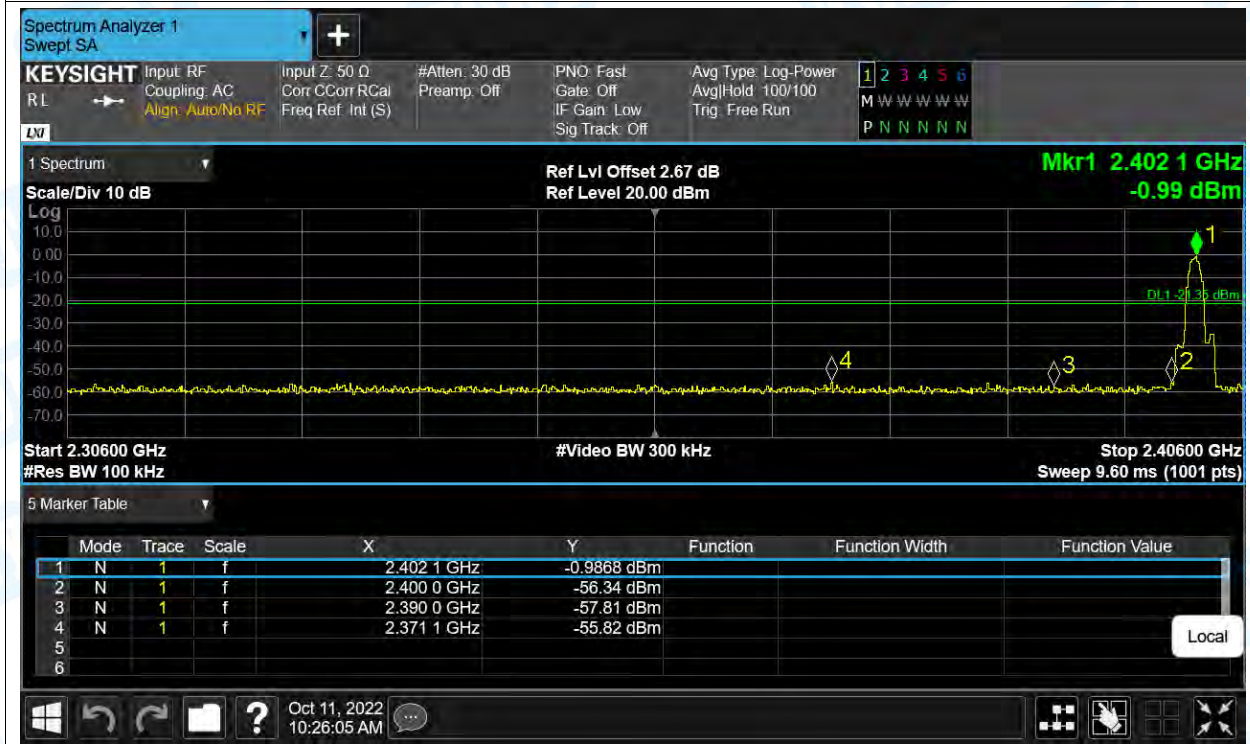
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



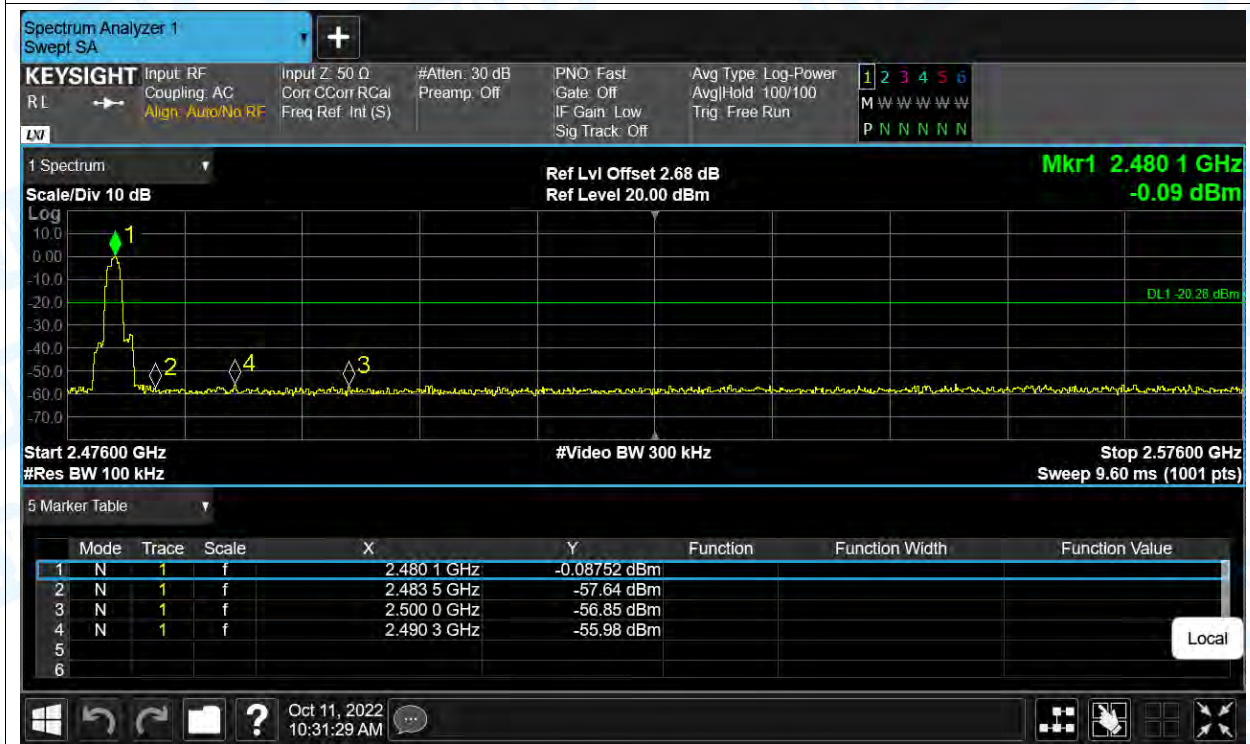
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

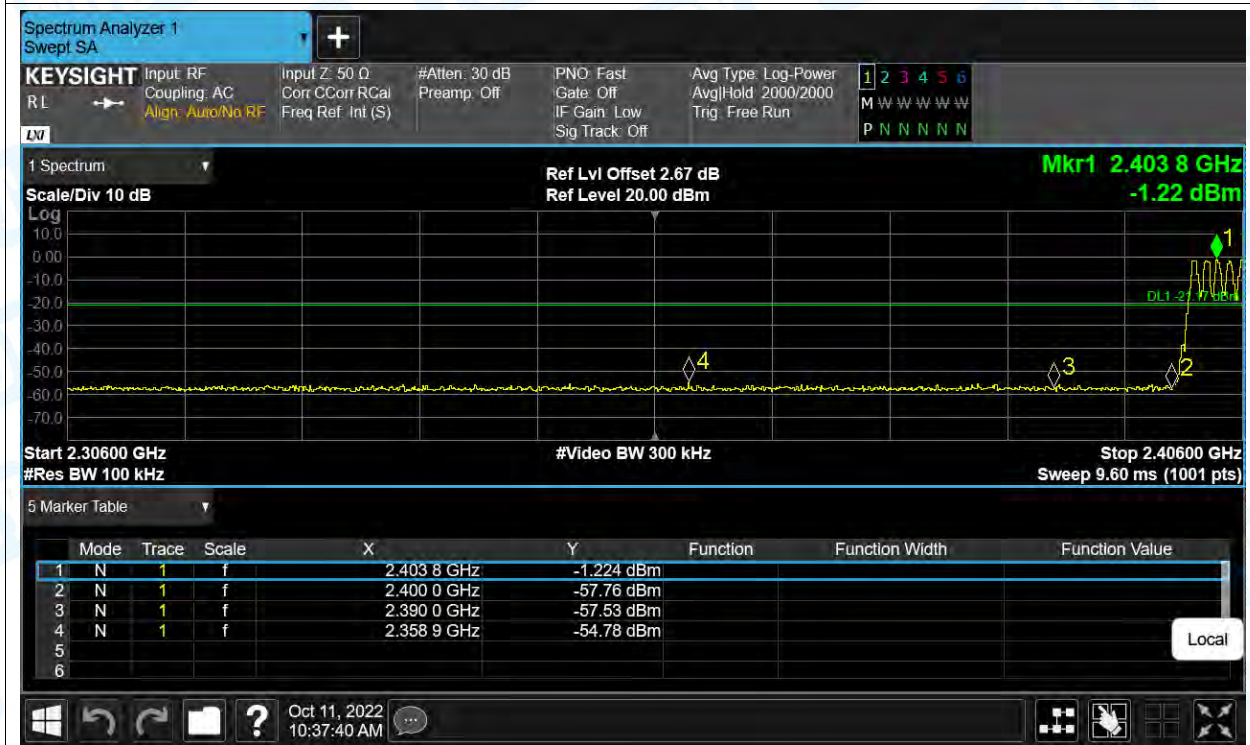
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.61	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-54.82	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.64	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-54.44	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.11	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-55.79	-20	Pass

Test Graphs

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



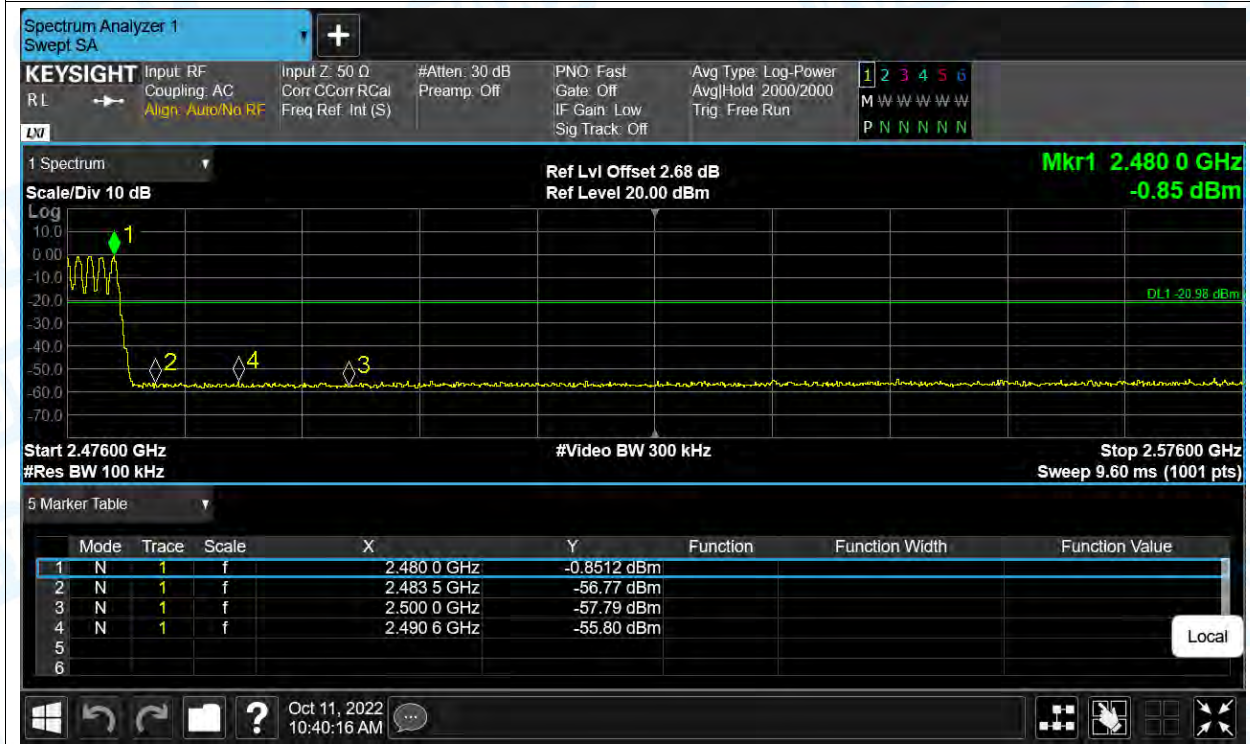
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



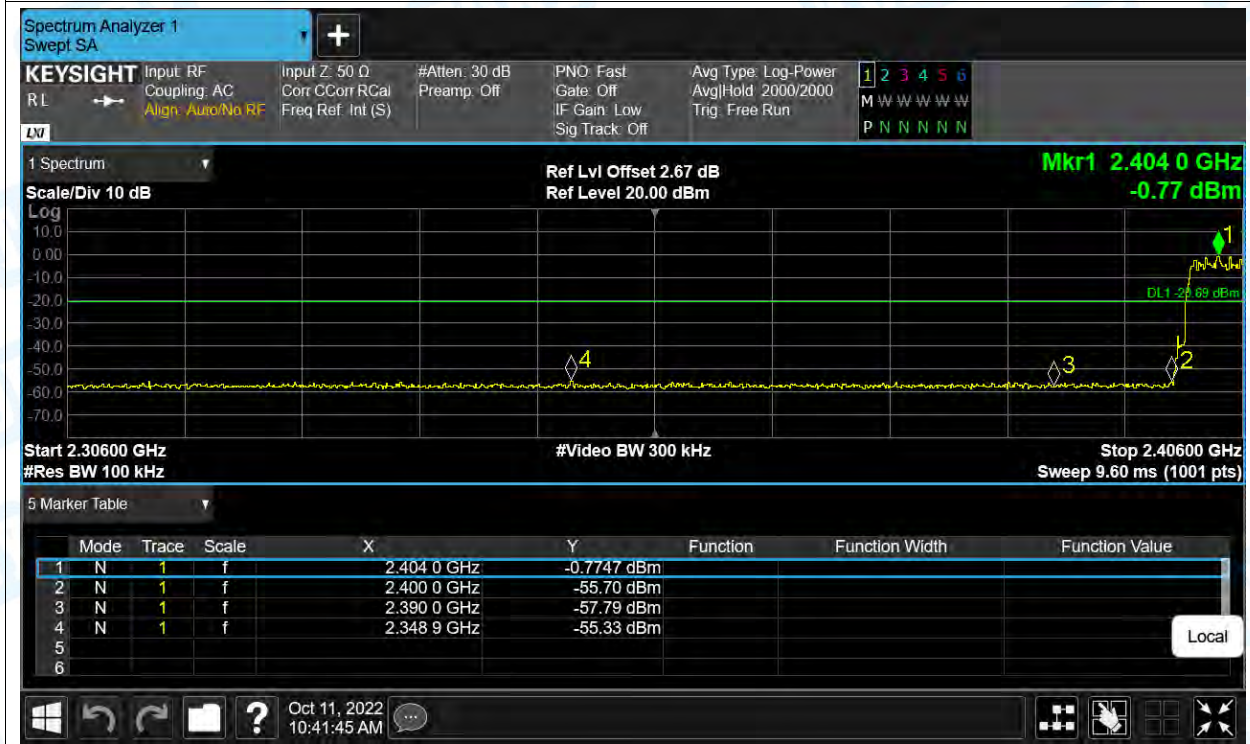
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



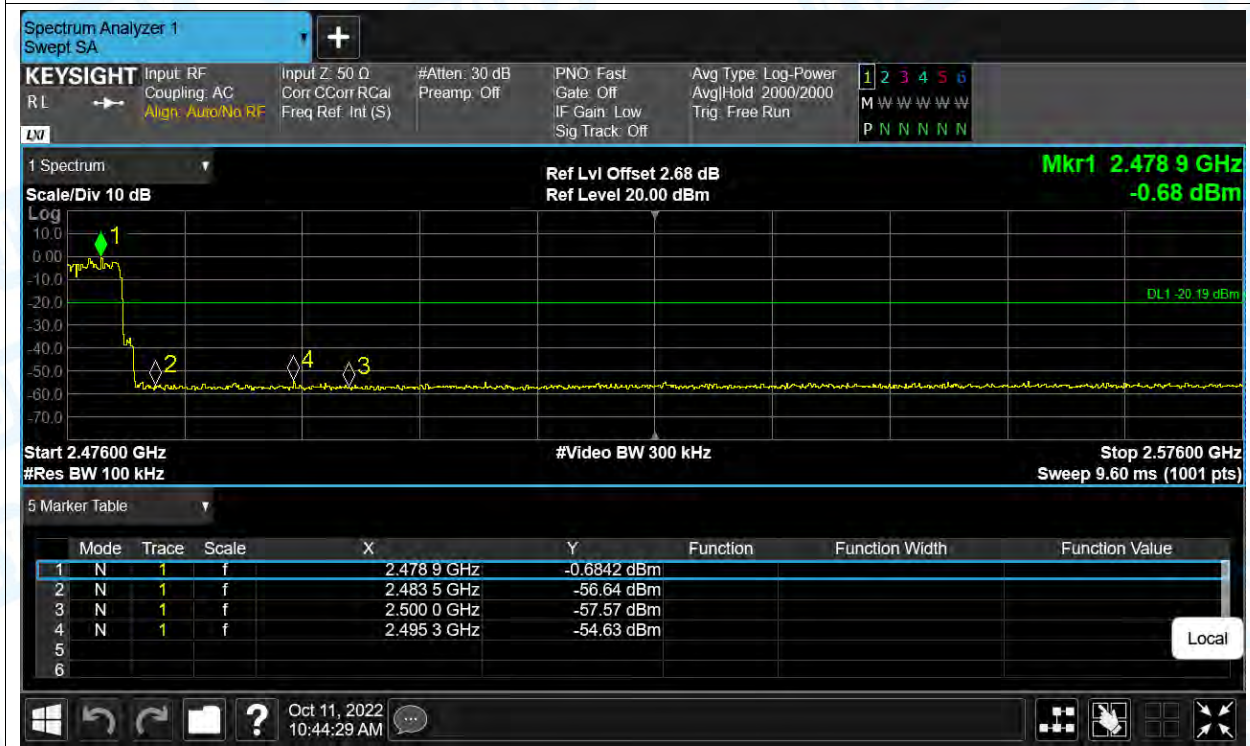
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission

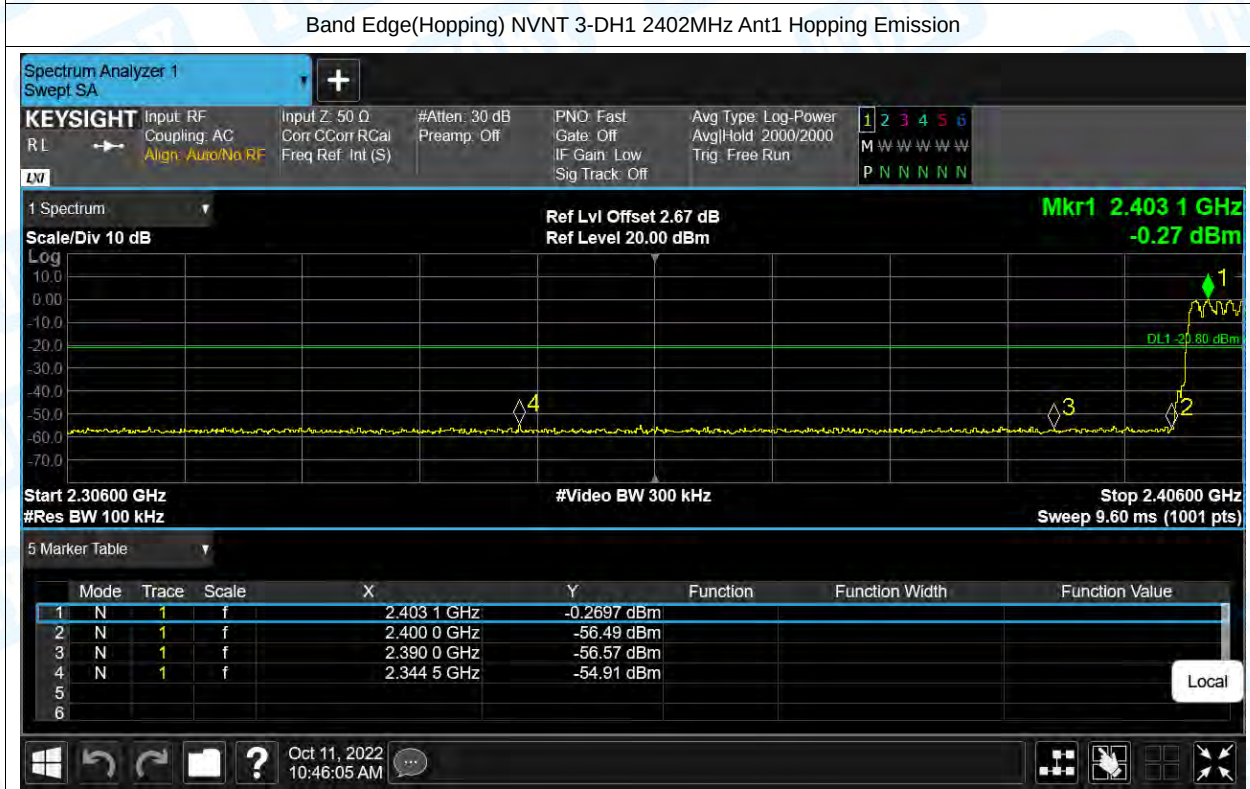
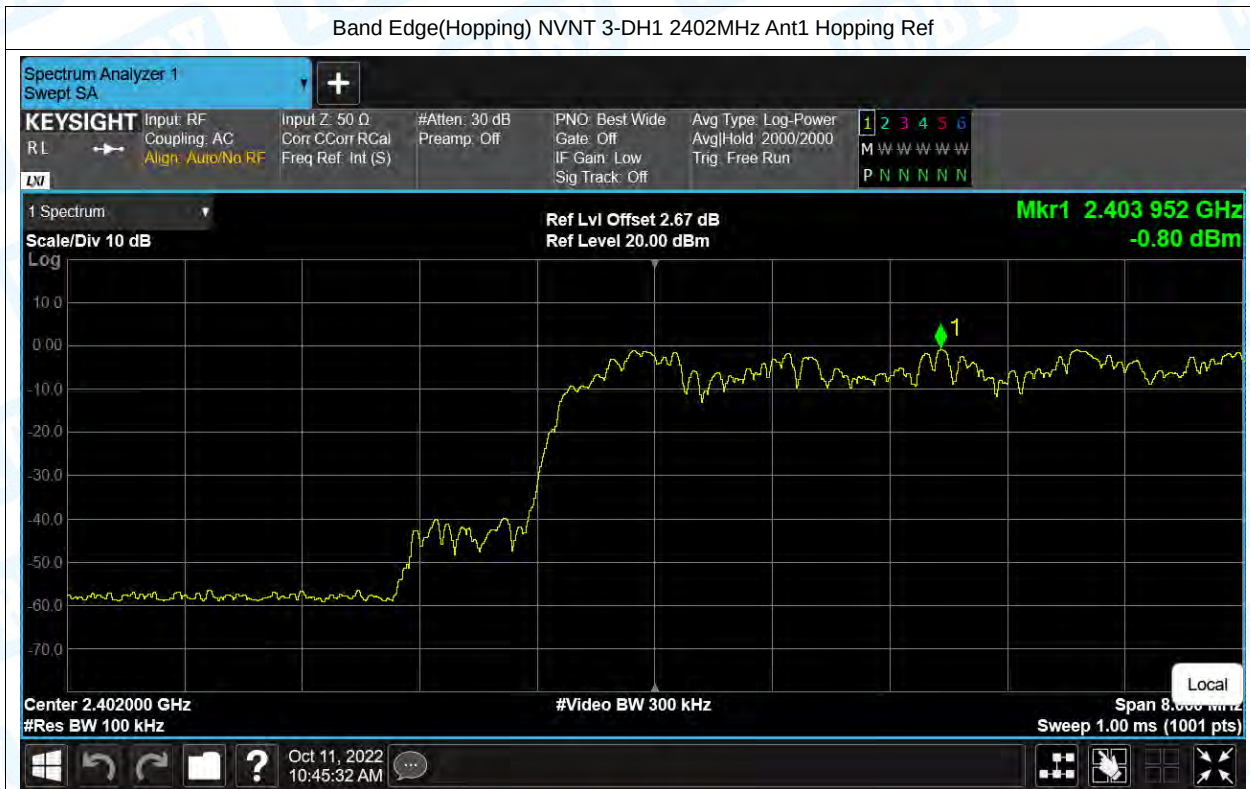


Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

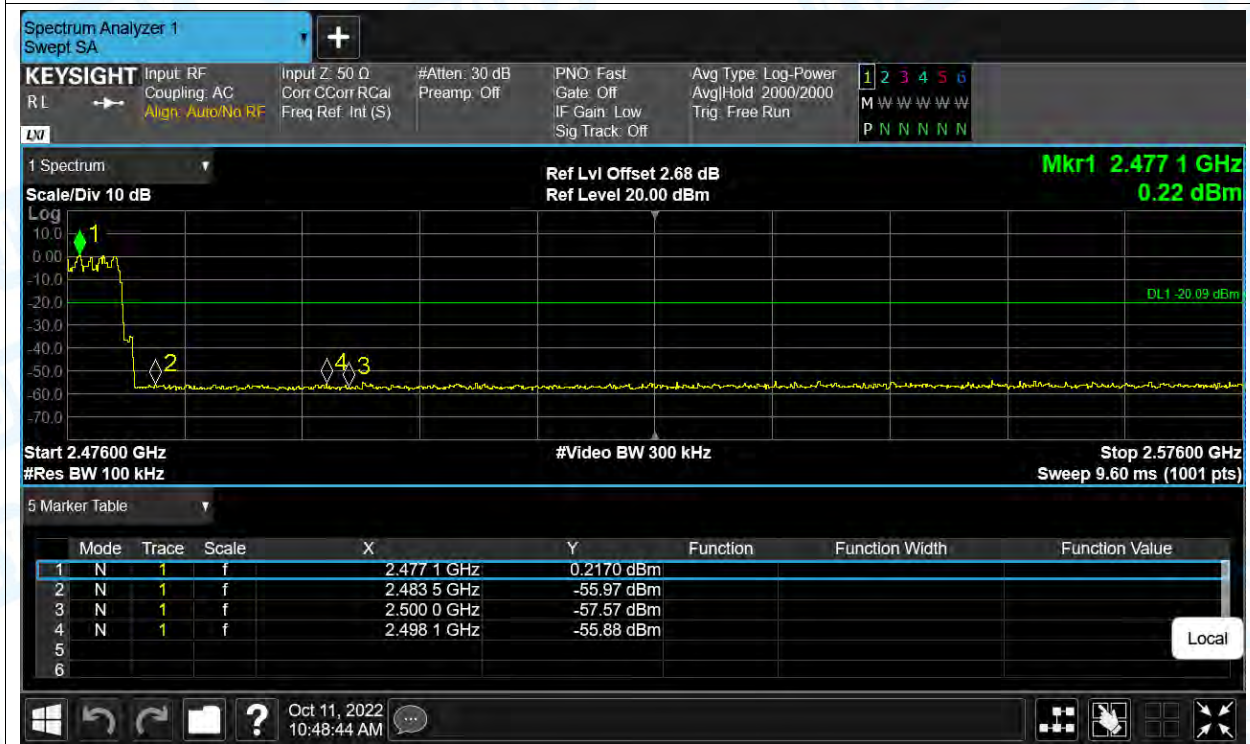




Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission



7. Conducted RF Spurious Emission

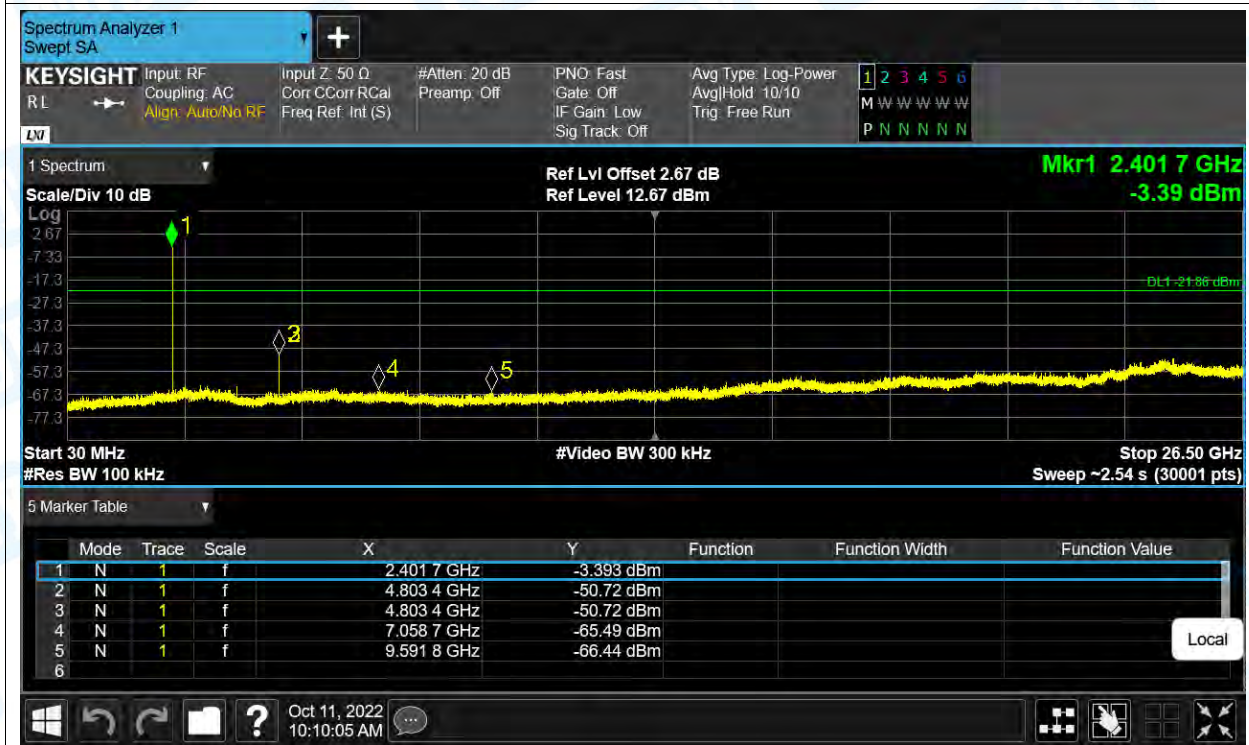
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-48.87	-20	Pass
NVNT	1-DH1	2441	Ant1	-47.17	-20	Pass
NVNT	1-DH1	2480	Ant1	-48.81	-20	Pass
NVNT	2-DH1	2402	Ant1	-50.05	-20	Pass
NVNT	2-DH1	2441	Ant1	-49.72	-20	Pass
NVNT	2-DH1	2480	Ant1	-50.91	-20	Pass
NVNT	3-DH1	2402	Ant1	-48.96	-20	Pass
NVNT	3-DH1	2441	Ant1	-45.28	-20	Pass
NVNT	3-DH1	2480	Ant1	-48.52	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



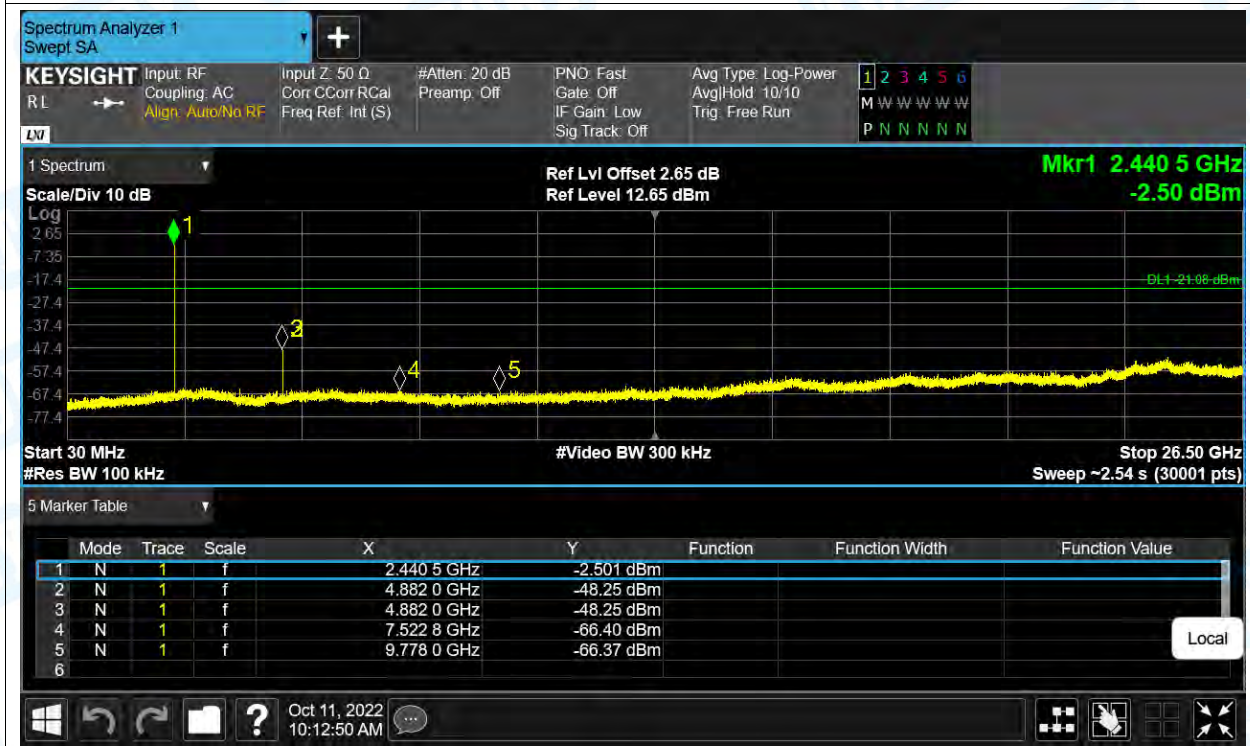
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission

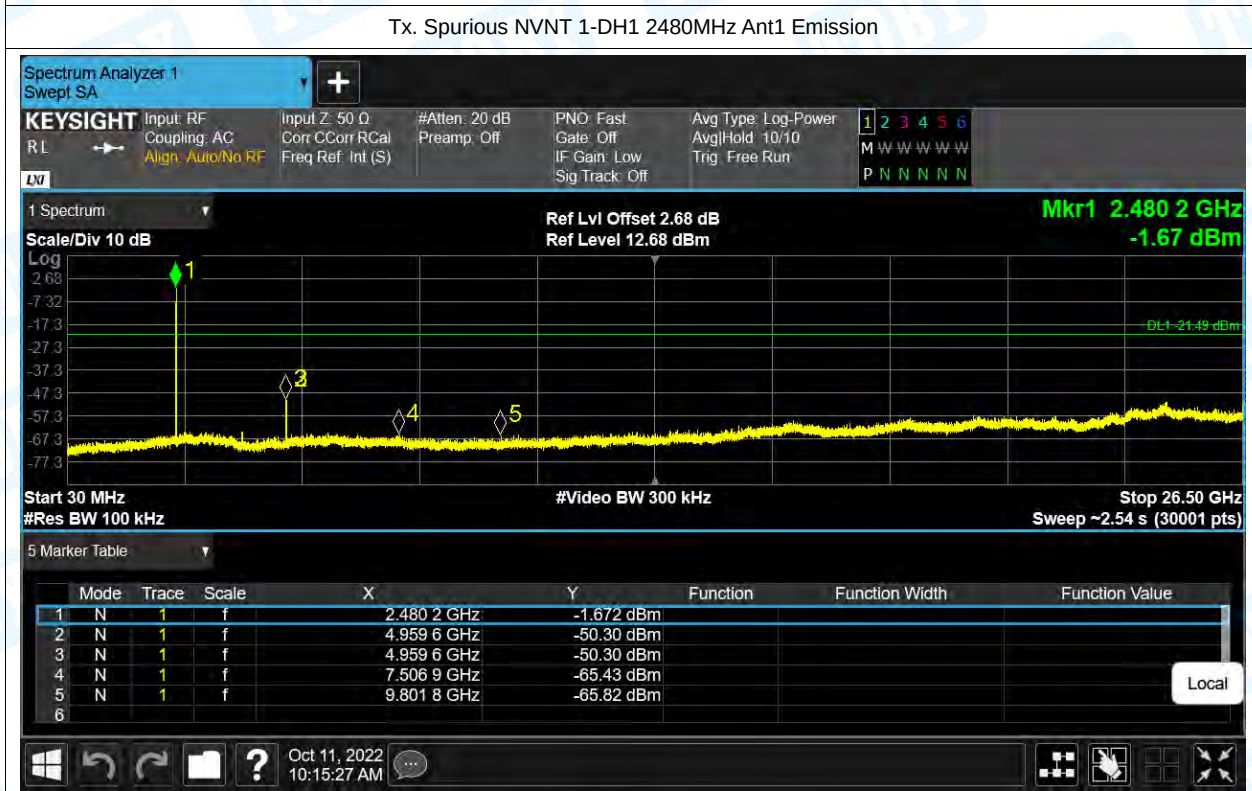
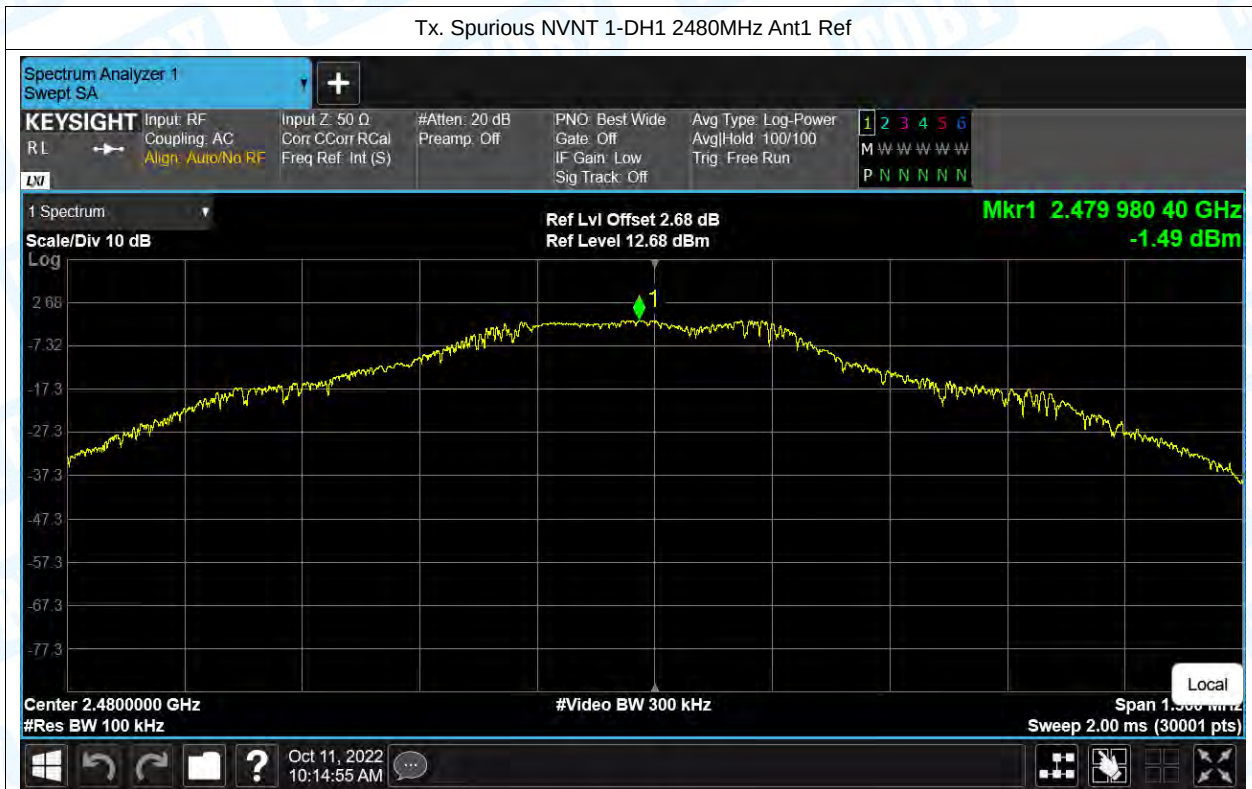


Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref

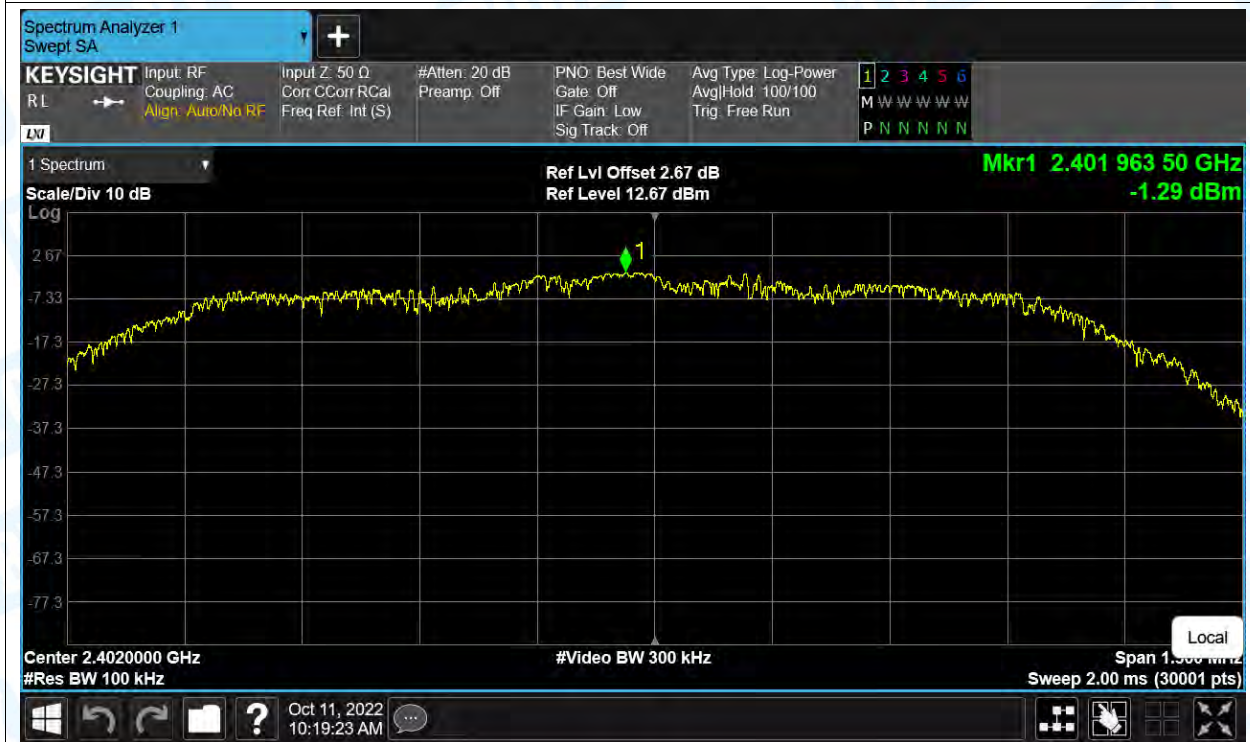


Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission

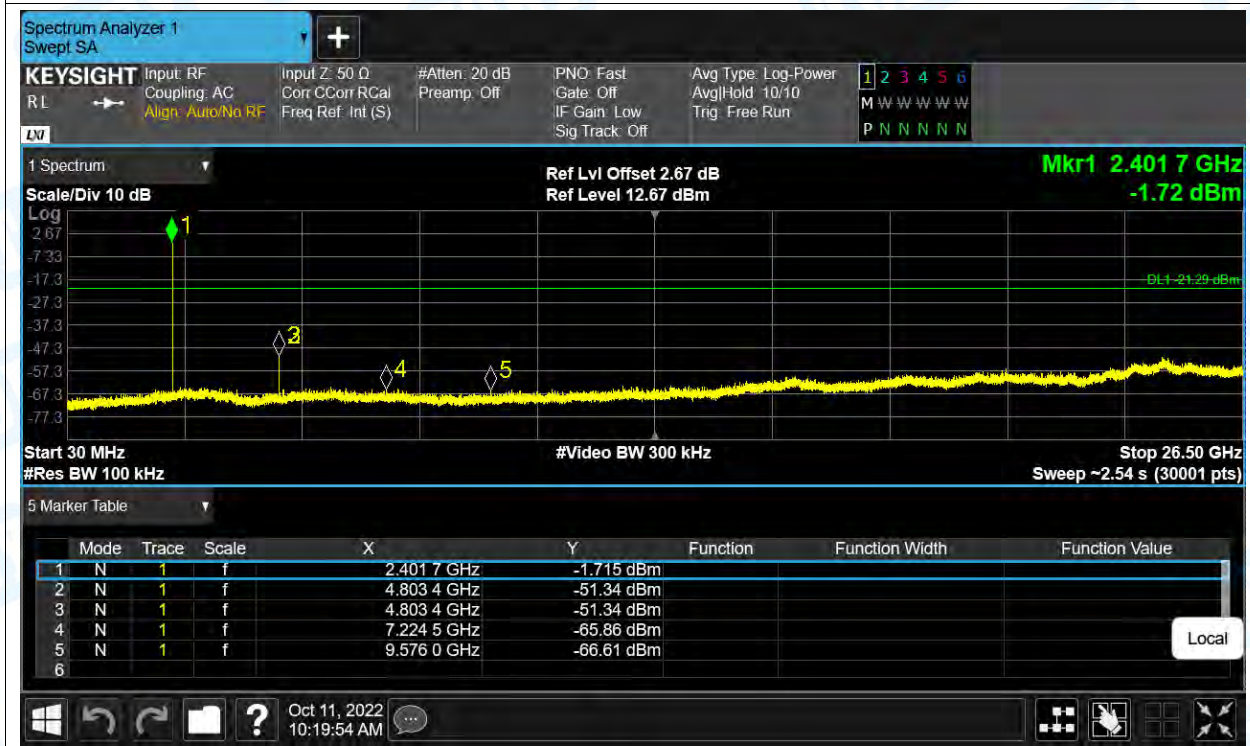




Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



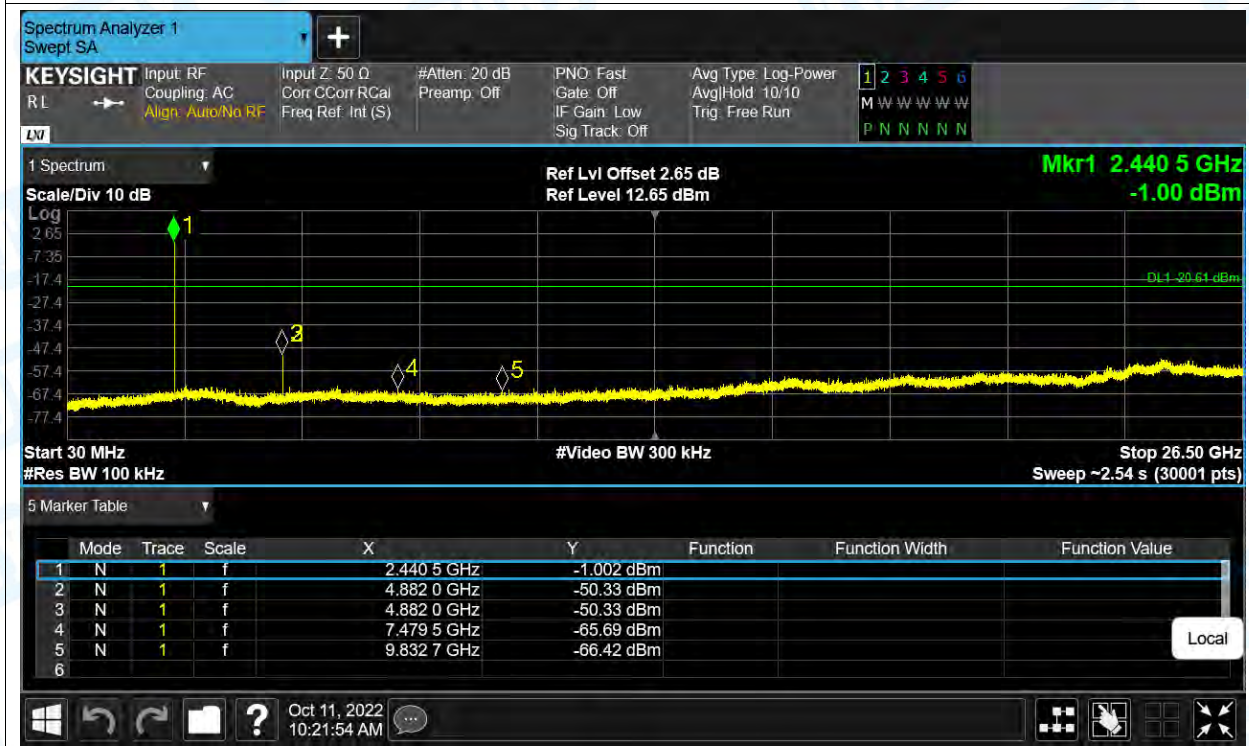
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



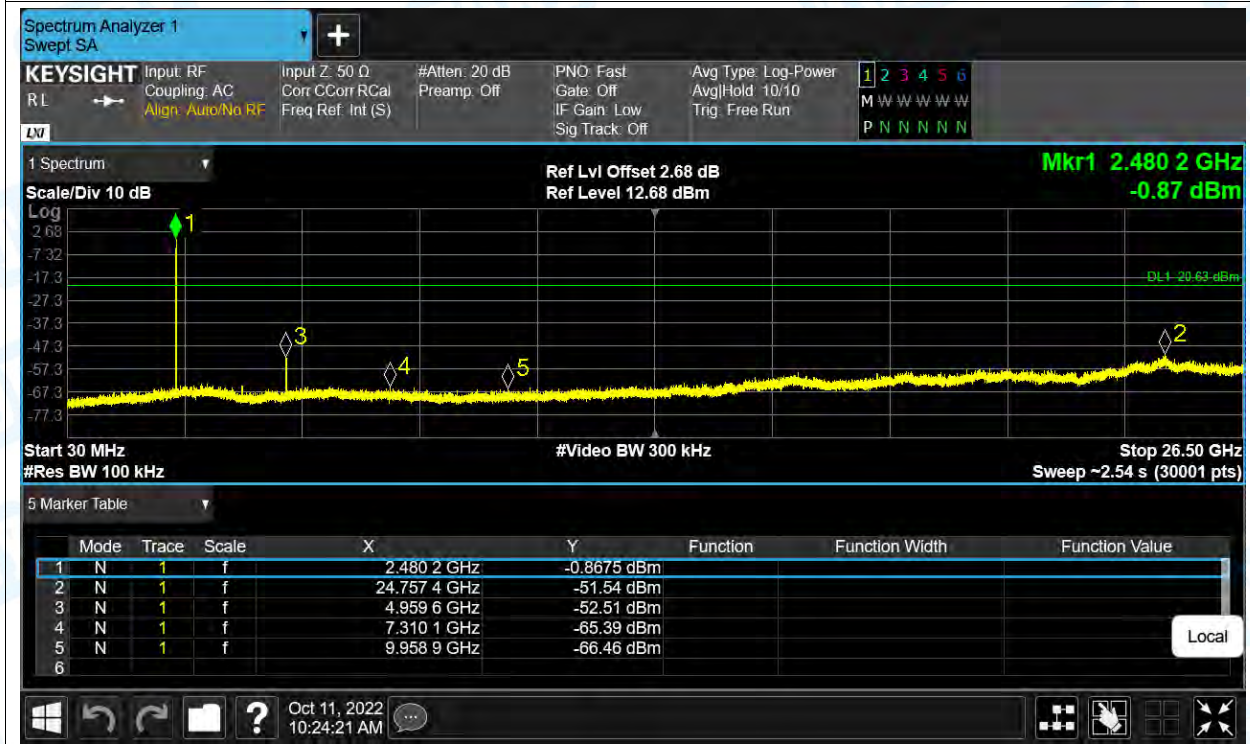
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



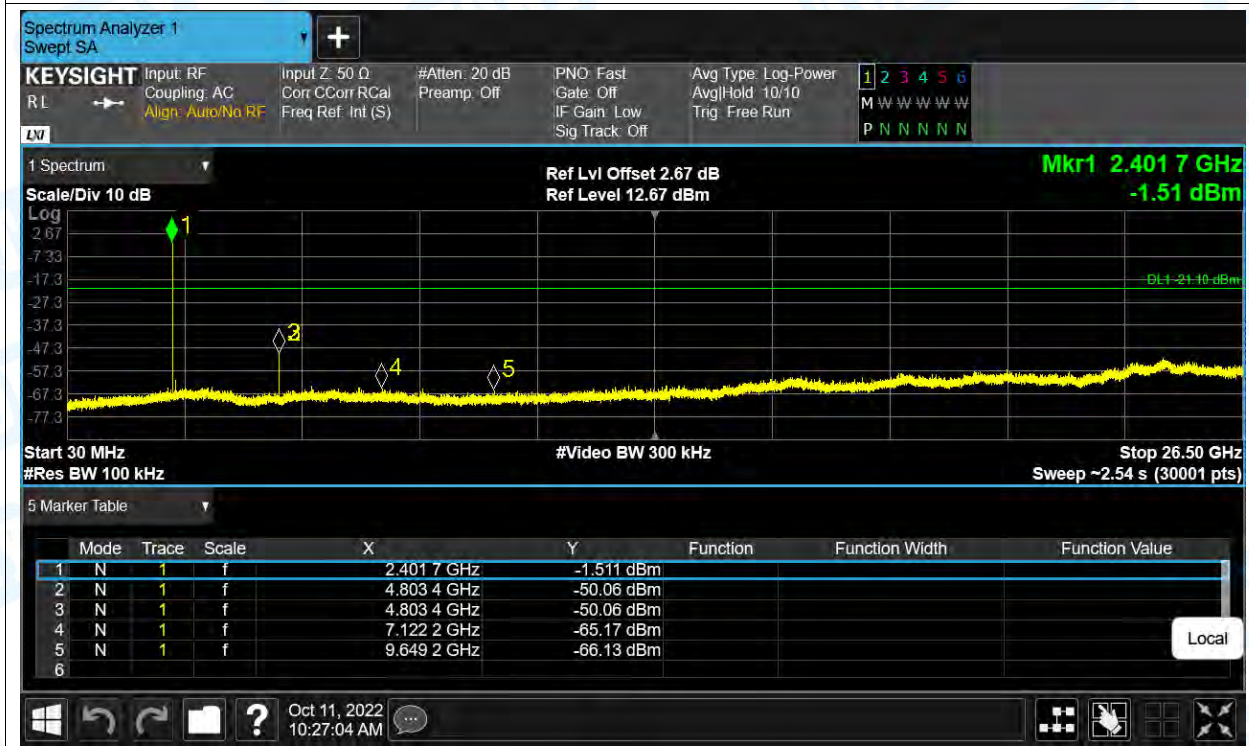
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



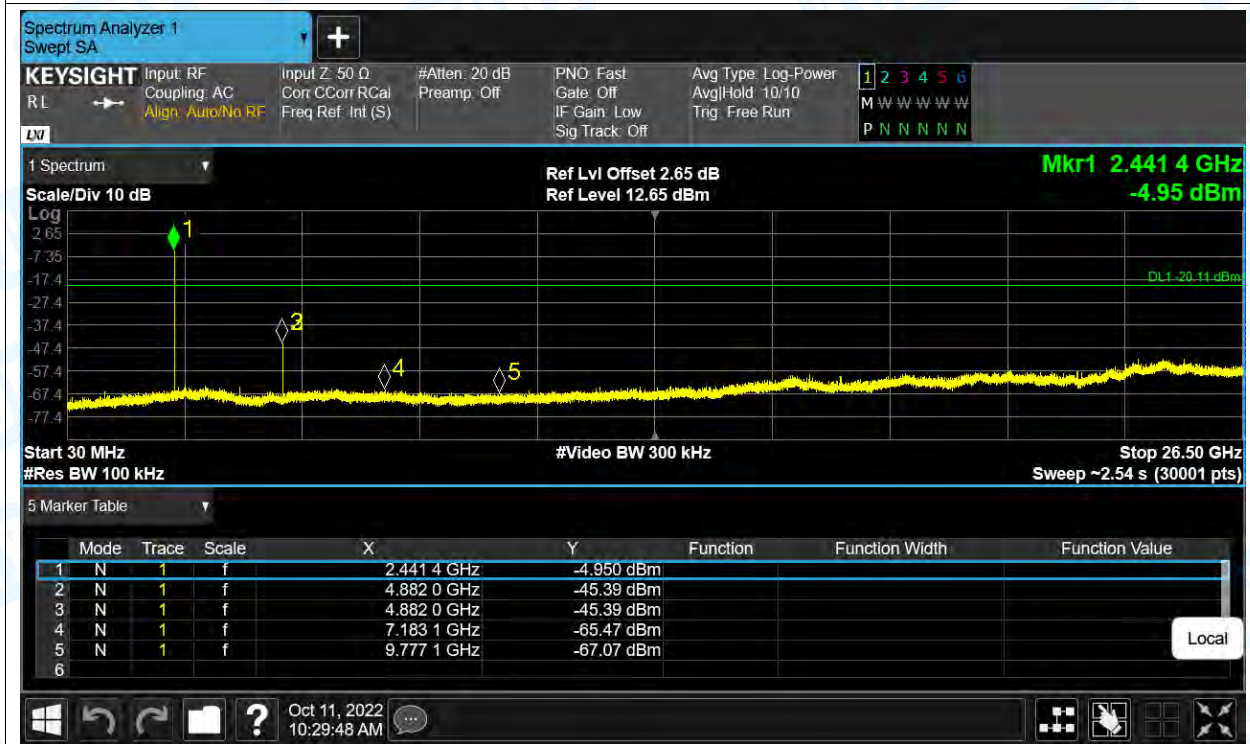
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission

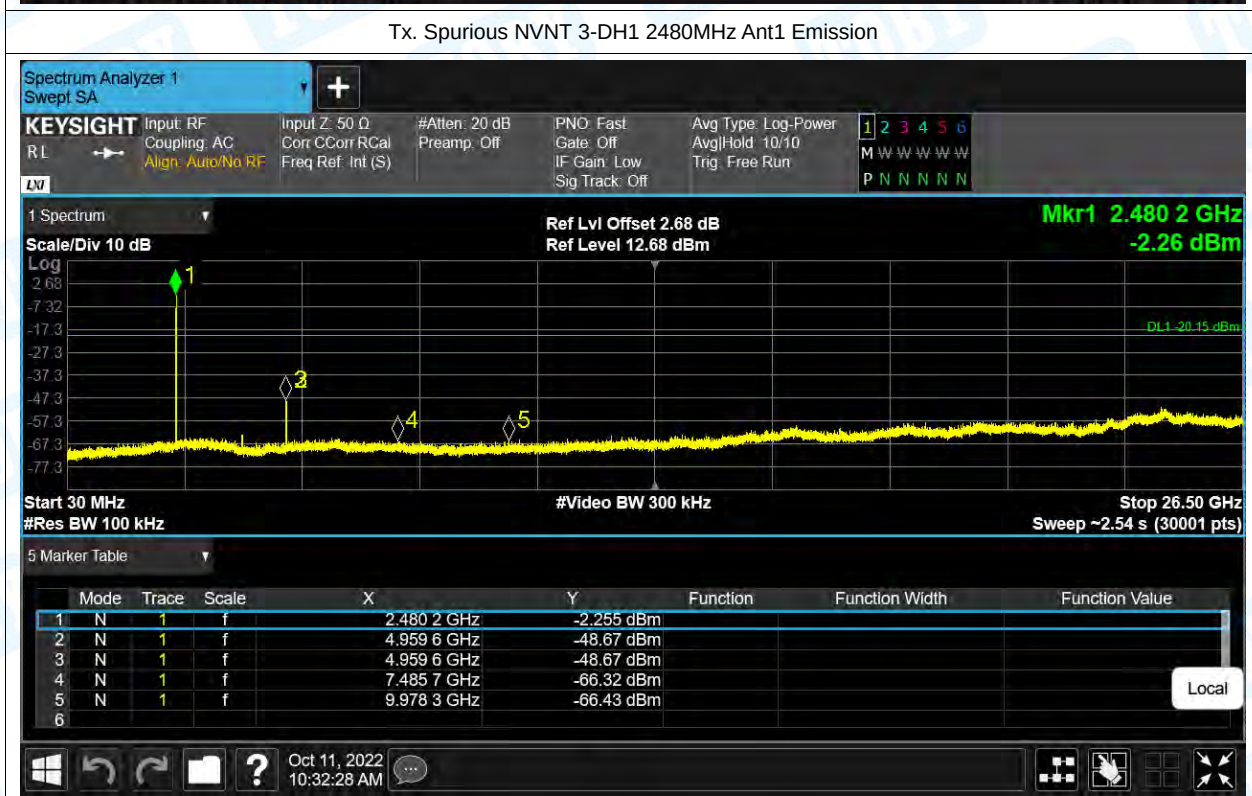
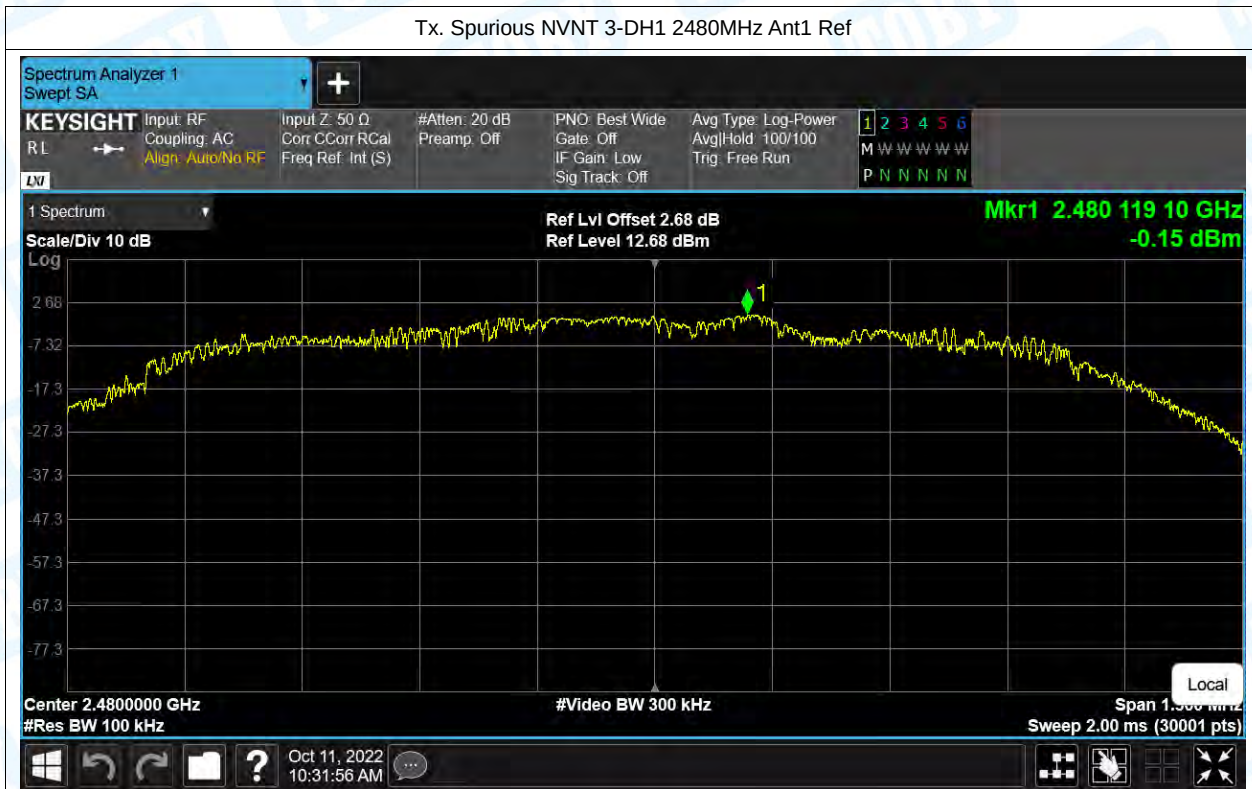


Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



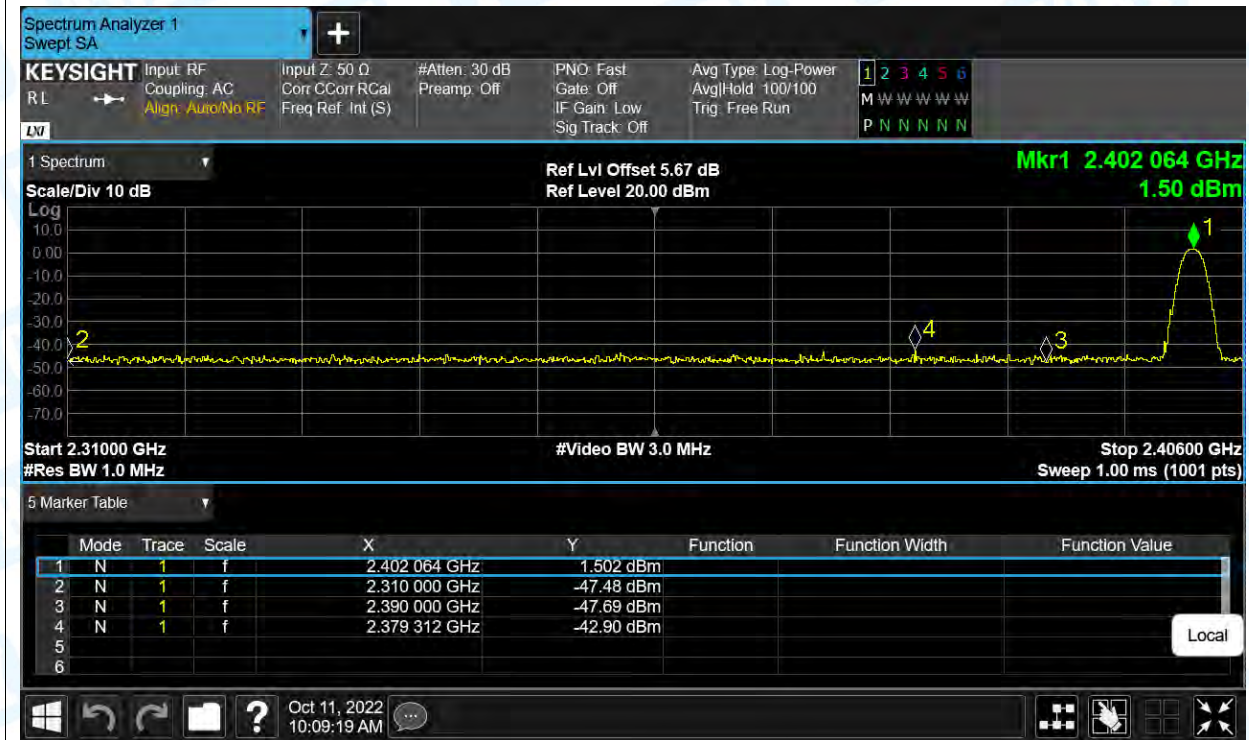


8. Restrict Band

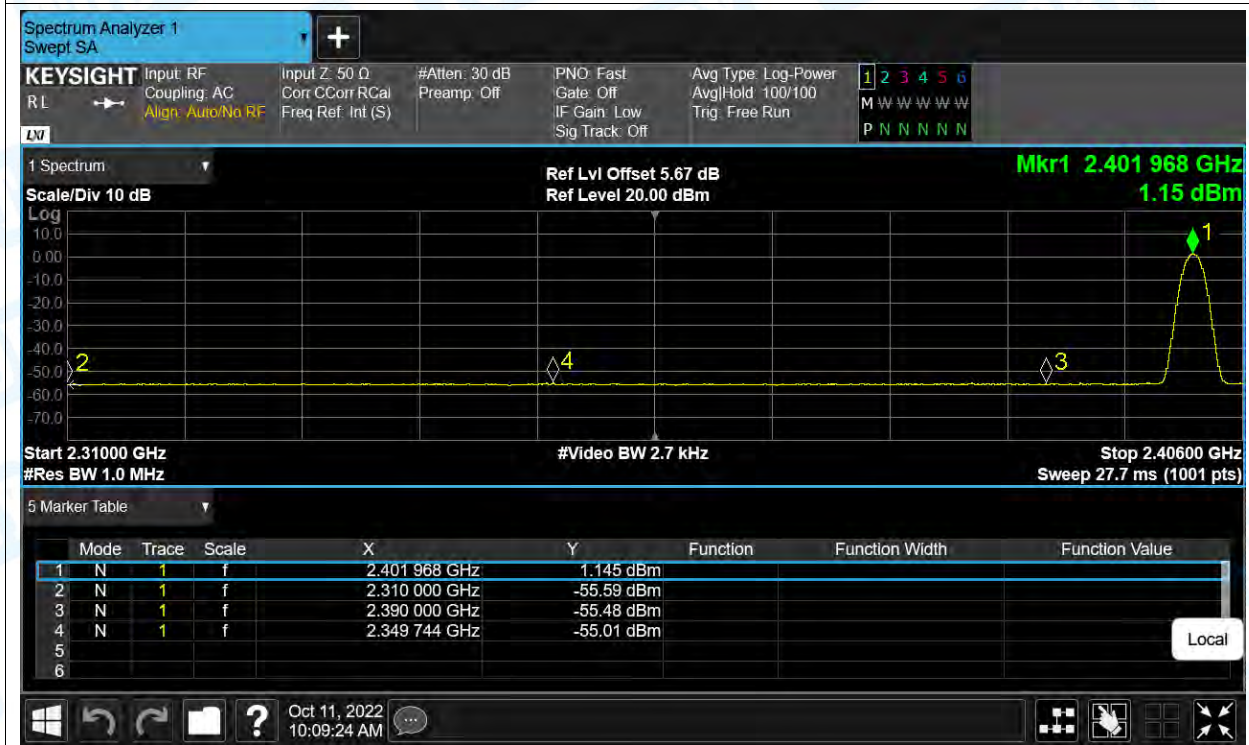
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.48	3	50.78	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.59	3	42.67	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2379.312	-42.9	3	55.36	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2349.744	-55.01	3	43.25	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.71	3	50.55	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.61	3	42.65	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.45	3	52.81	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.12	3	43.14	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.848	-42.75	3	55.51	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.704	-54.76	3	43.5	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.15	3	52.11	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.56	3	42.7	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.3	3	51.96	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.56	3	42.7	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2312.592	-43.69	3	54.57	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2317.104	-54.93	3	43.33	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.84	3	50.42	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.36	3	42.9	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.13	3	51.13	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.76	3	43.5	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.768	-43.31	3	54.95	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2495.272	-54.72	3	43.54	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.37	3	51.89	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.33	3	42.93	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.67	3	50.59	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.69	3	42.57	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2386.608	-43.27	3	54.99	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2315.856	-55.07	3	43.19	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.38	3	51.88	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.47	3	42.79	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-45.79	3	52.47	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.9	3	43.36	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2492.512	-42.74	3	55.52	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2490.328	-54.82	3	43.44	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.69	3	51.57	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.38	3	42.88	Average	54	Pass

Test Graphs

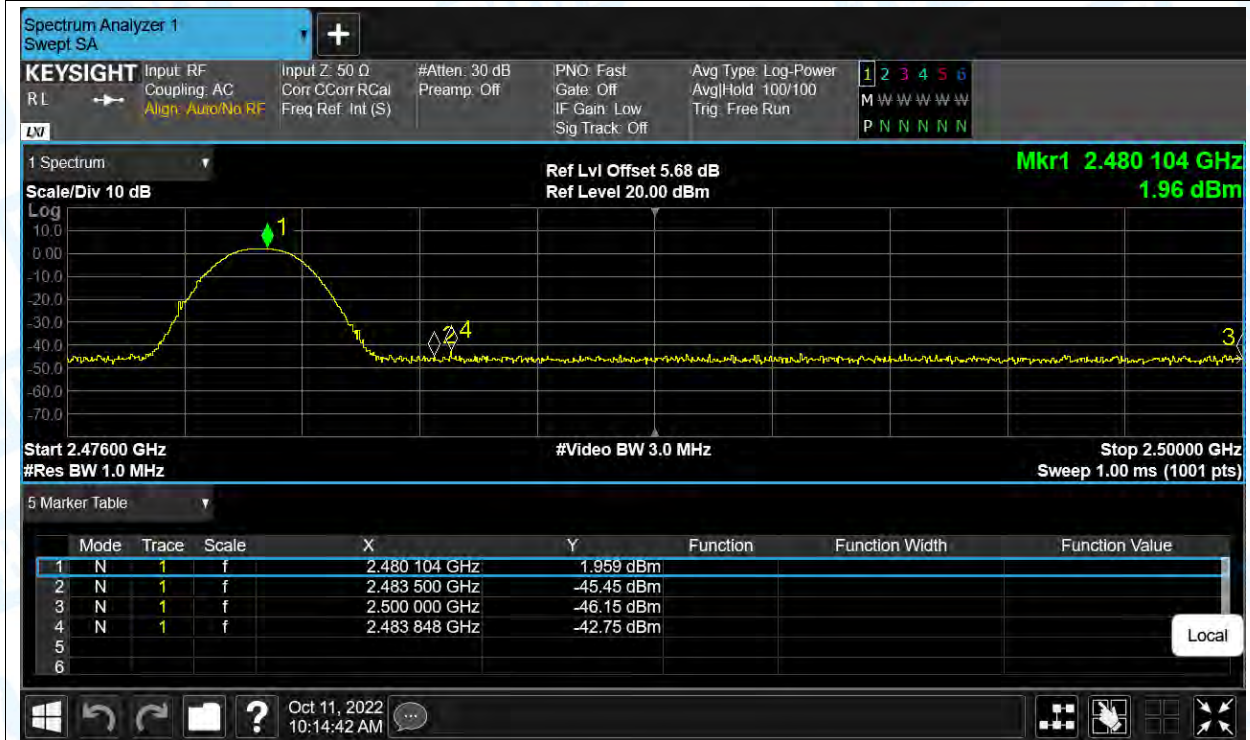
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



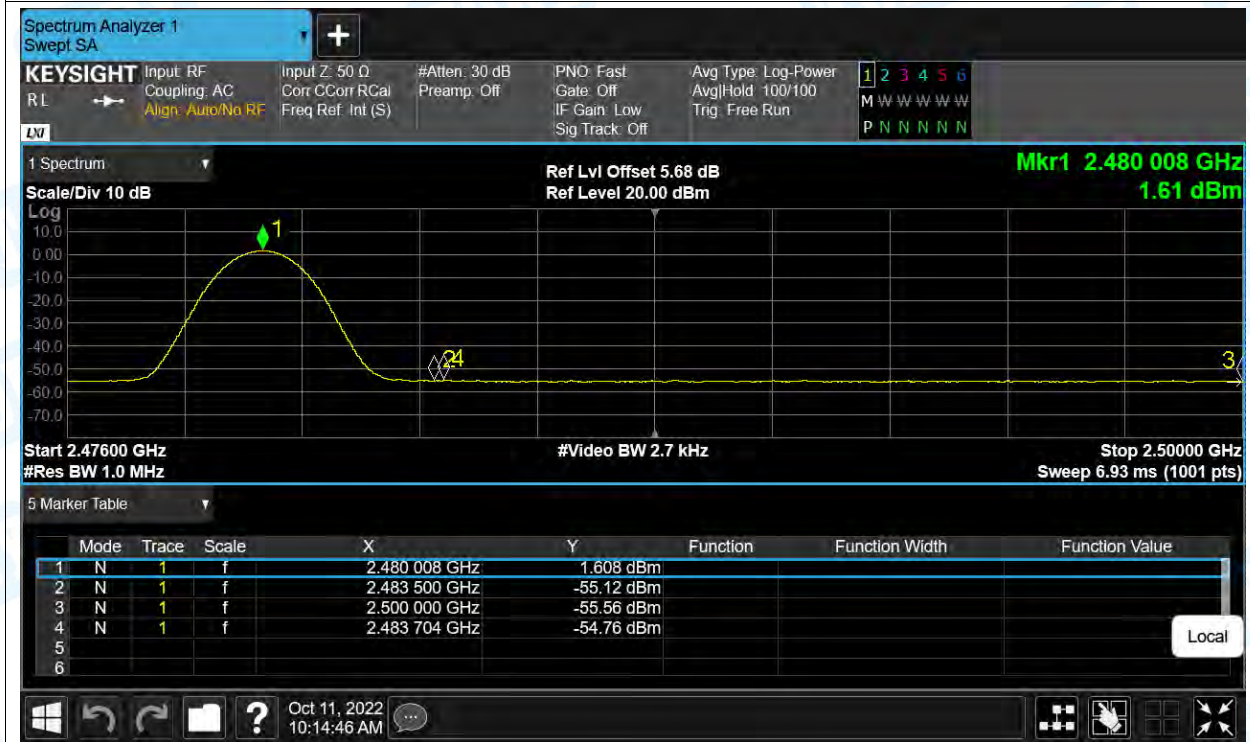
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



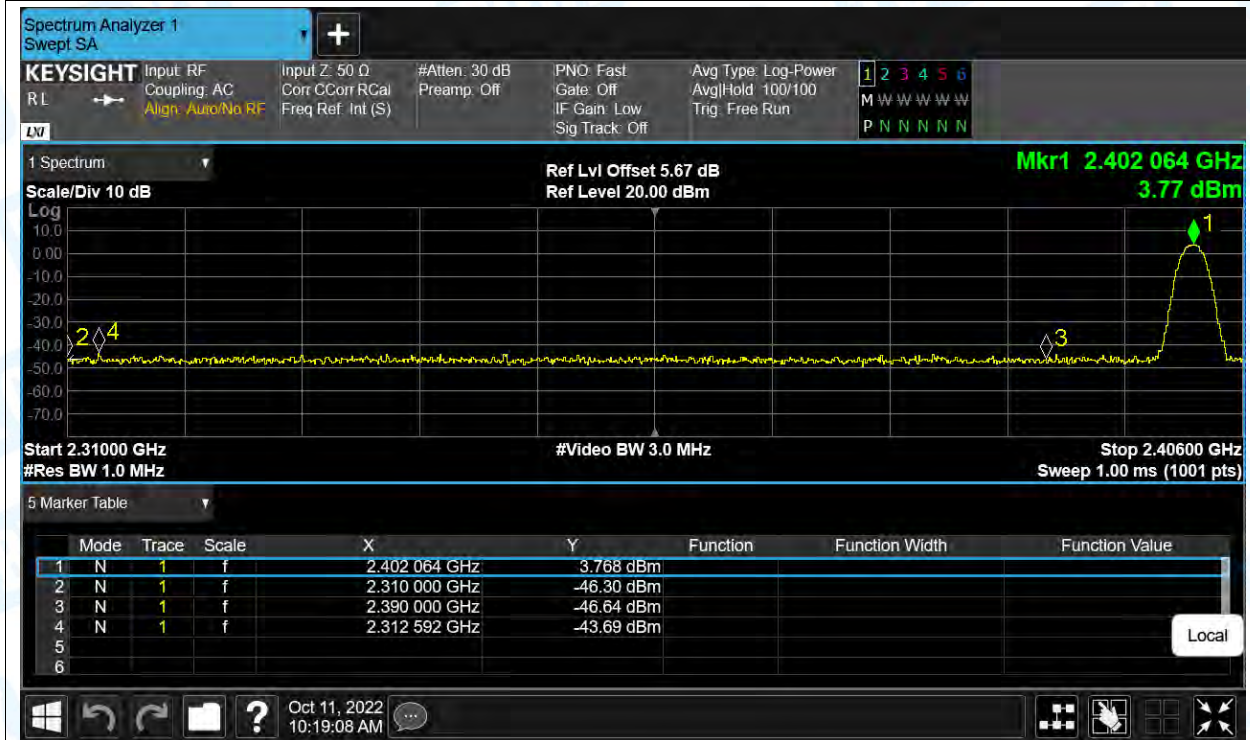
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



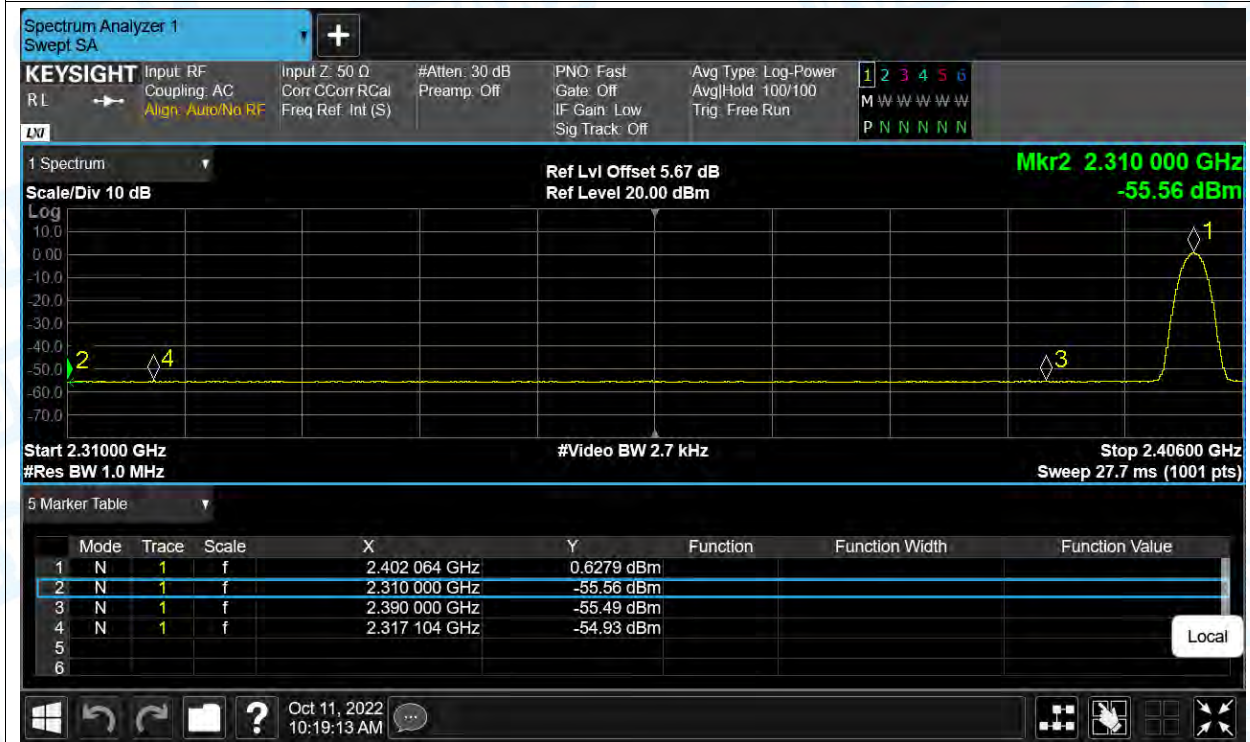
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



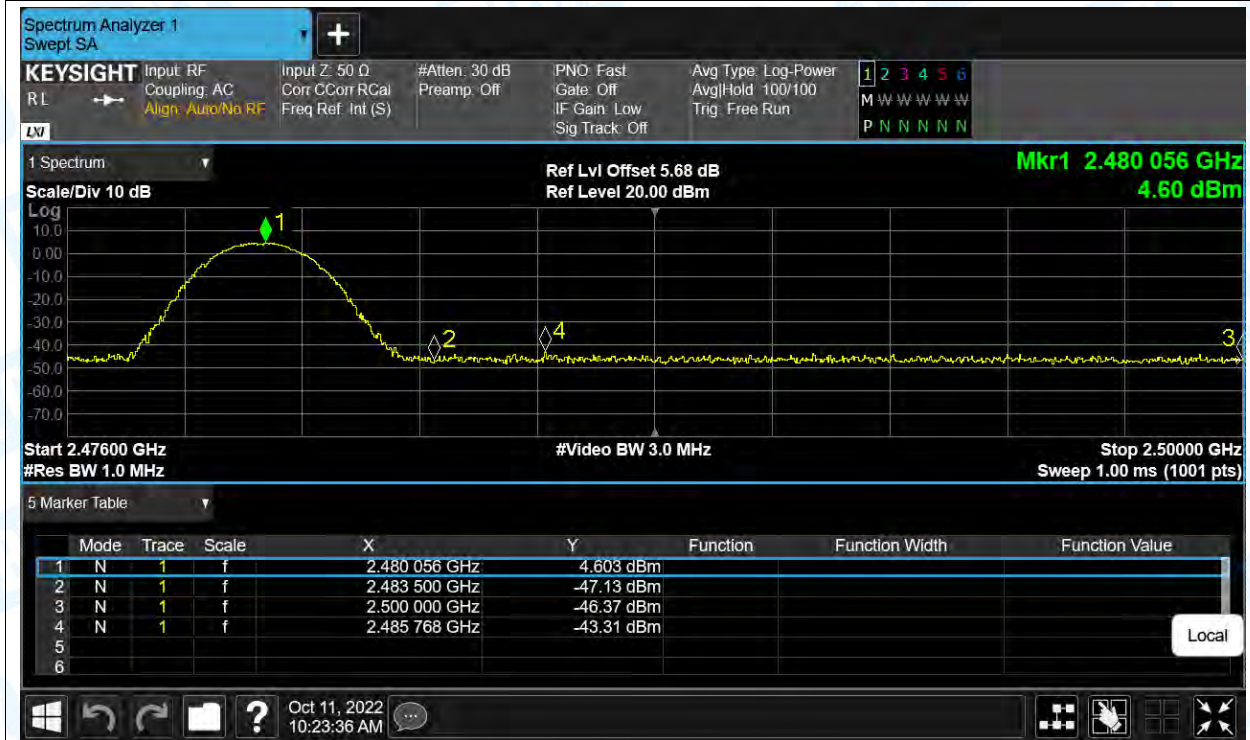
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



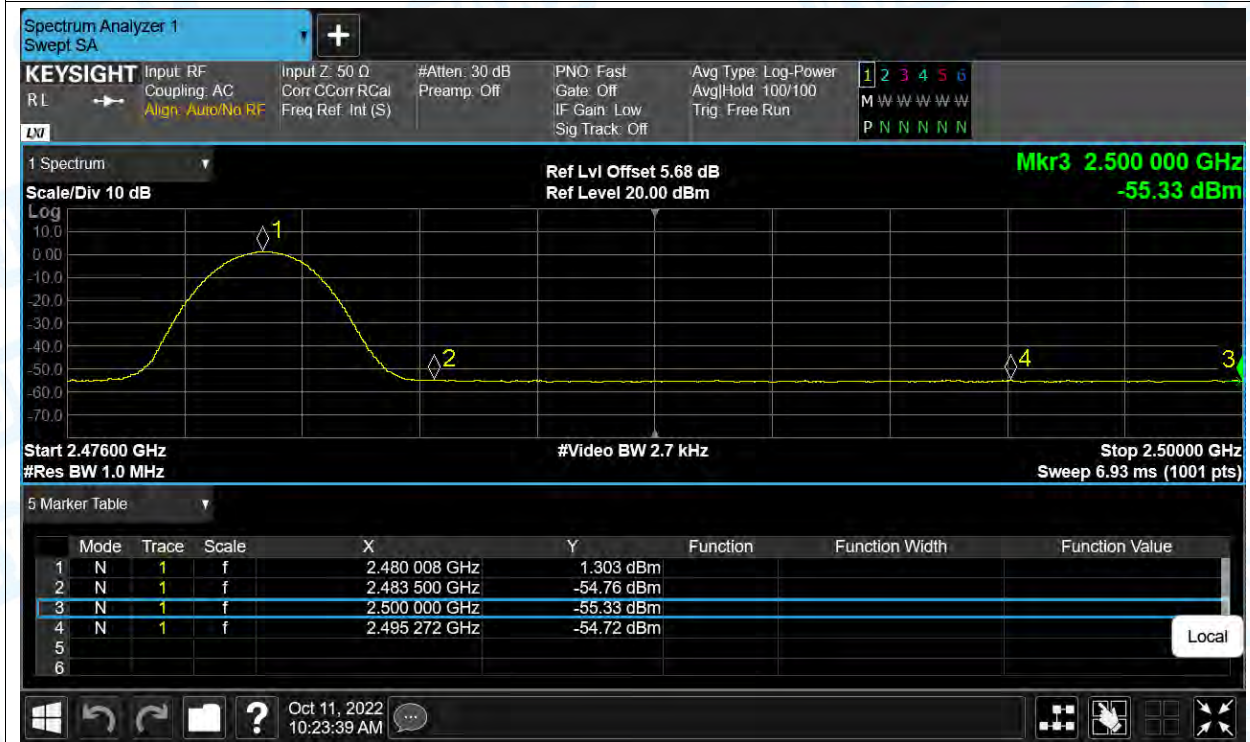
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



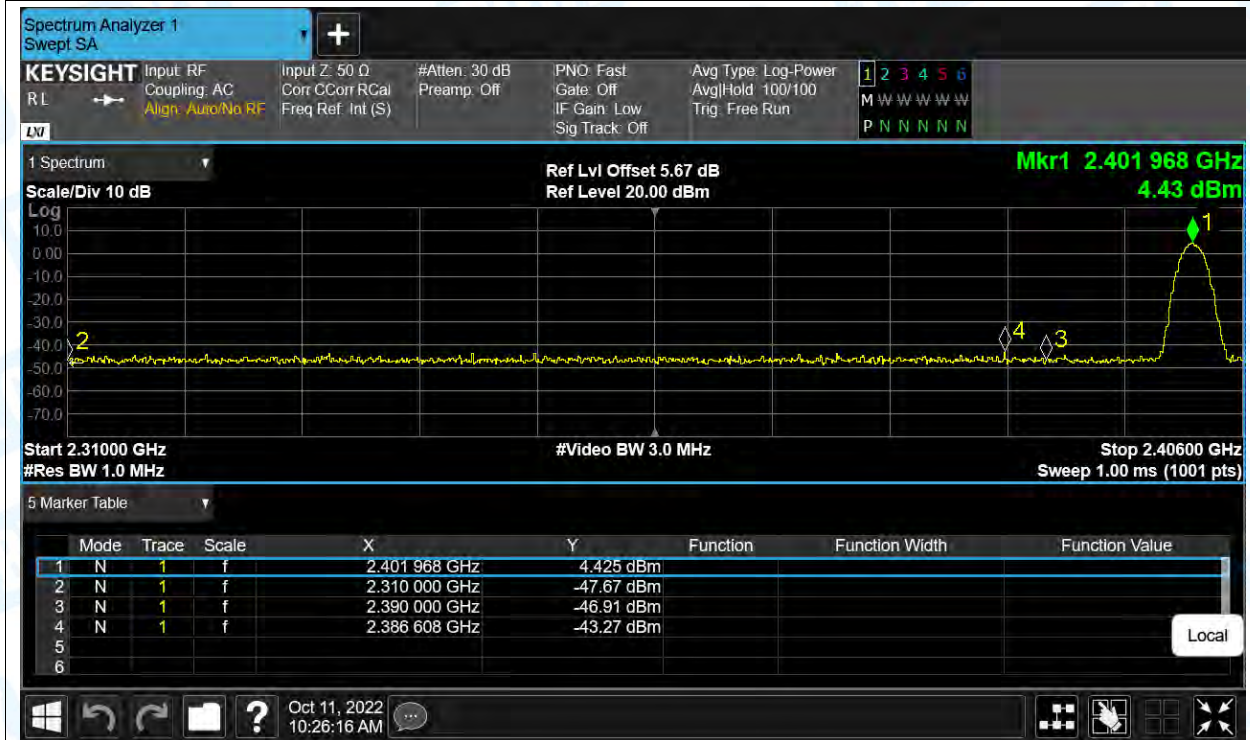
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



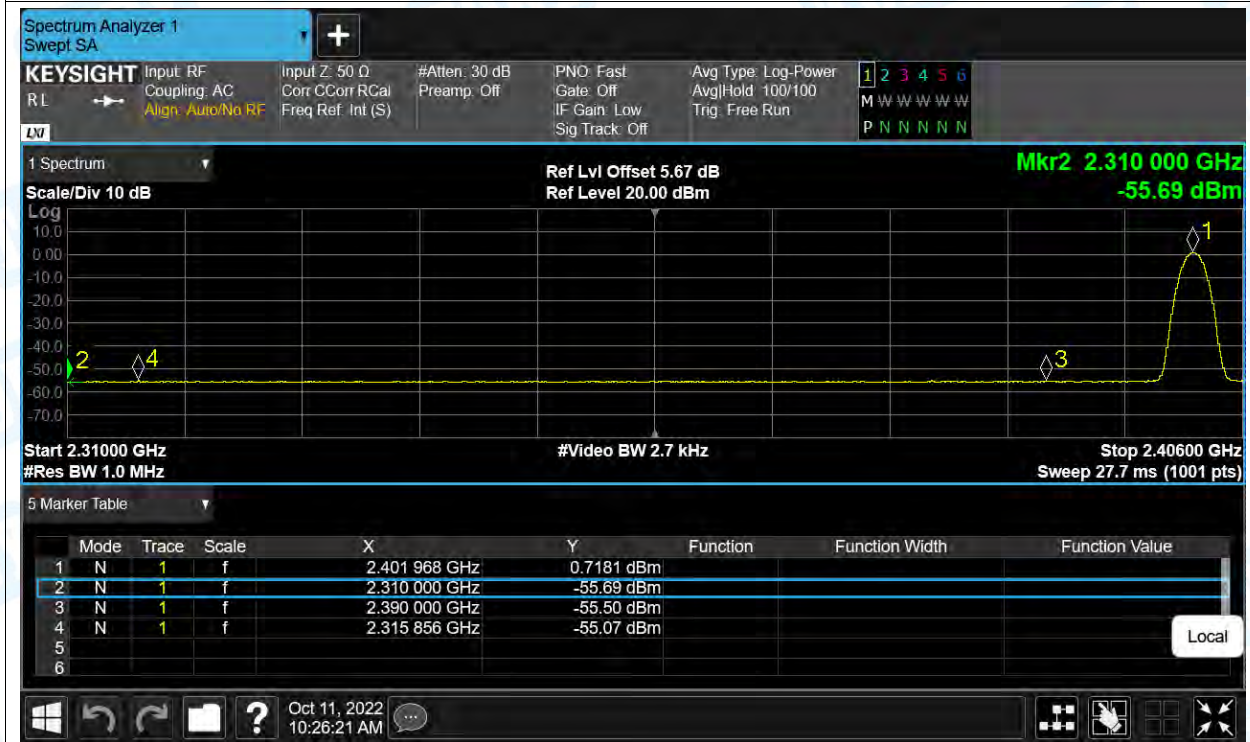
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



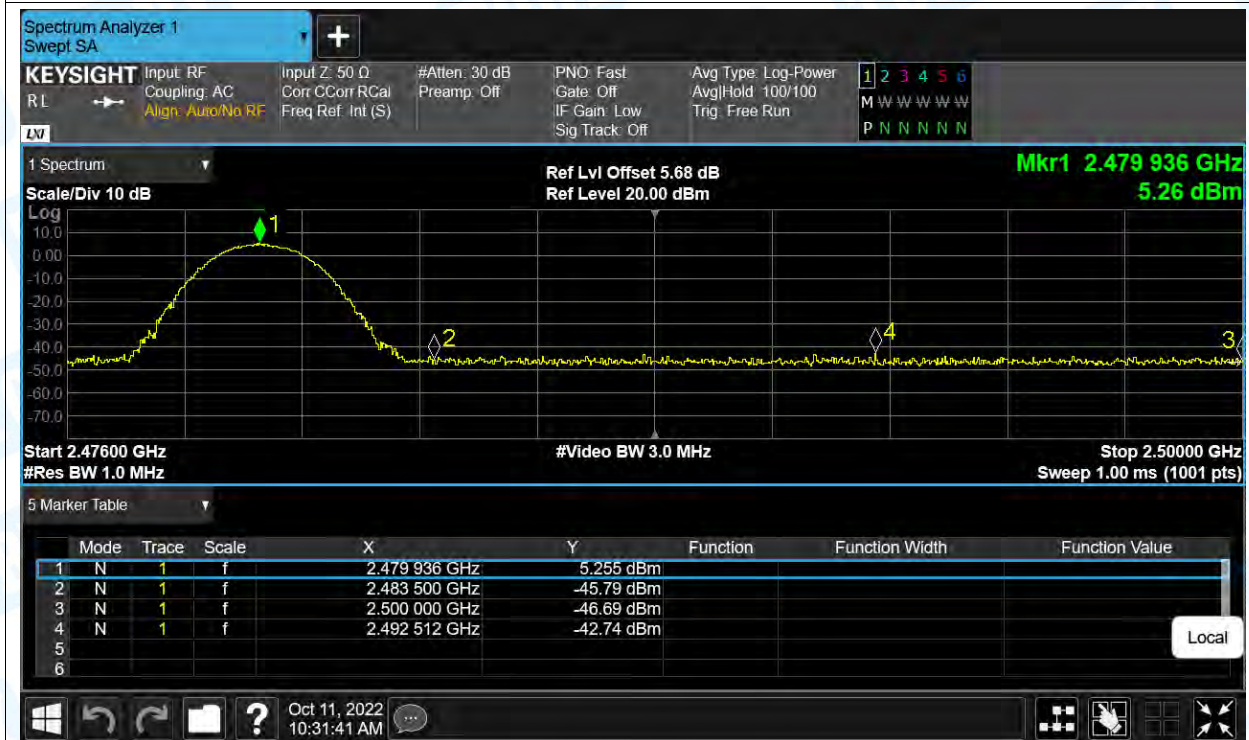
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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

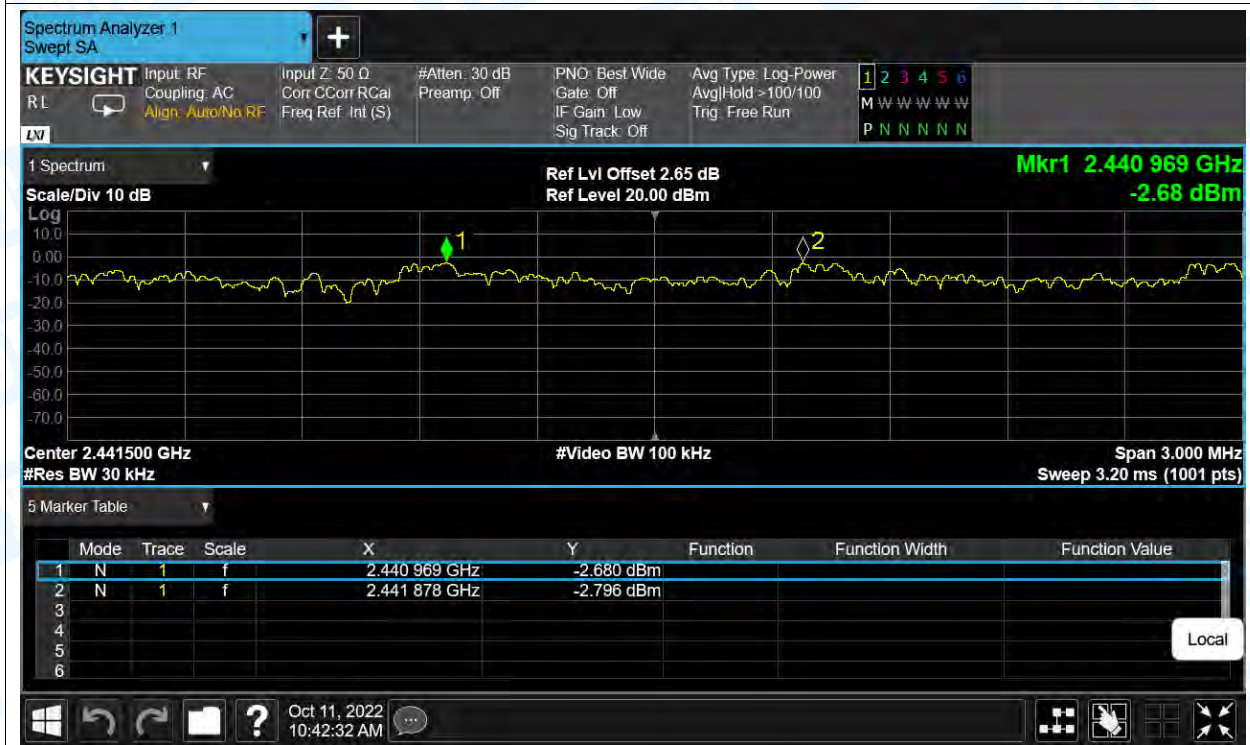
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.942	2441.923	0.981	0.70	Pass
NVNT	2-DH1	Ant1	2440.969	2441.878	0.909	0.90	Pass
NVNT	3-DH1	Ant1	2440.93	2441.971	1.041	0.88	Pass

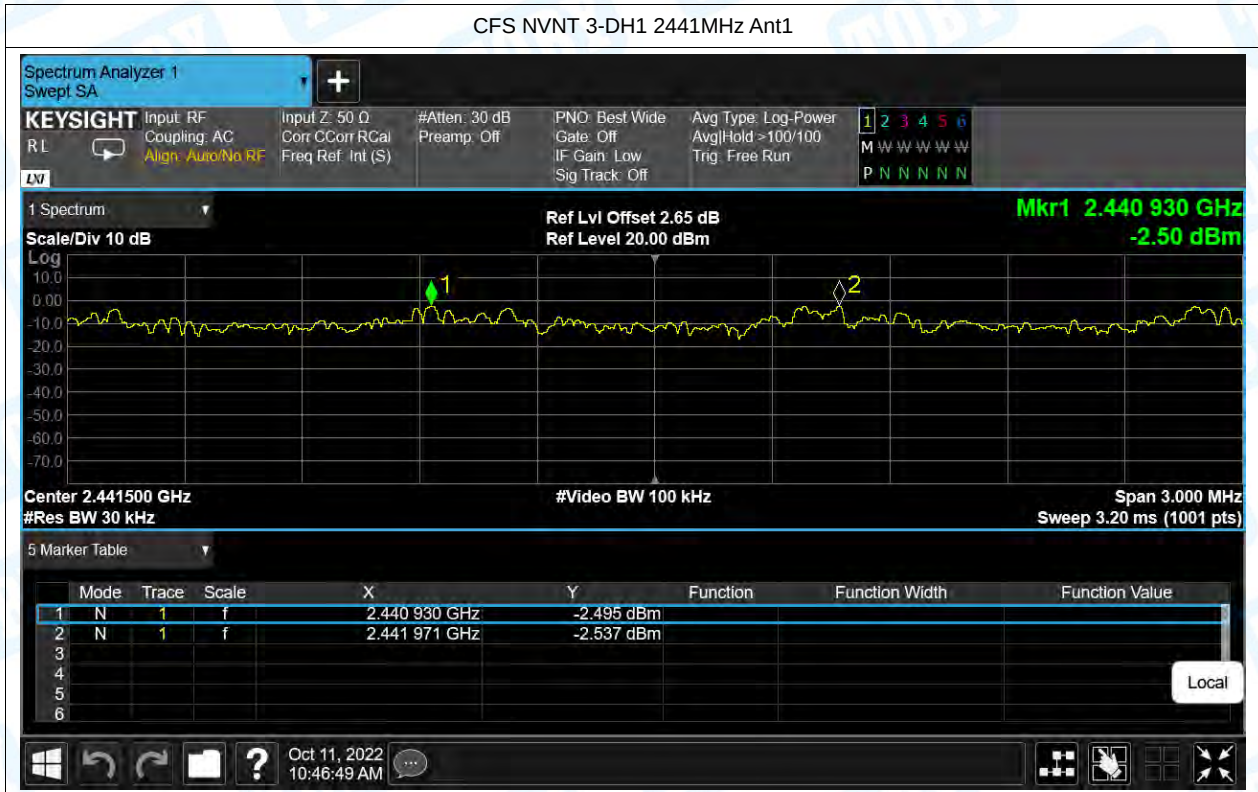
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



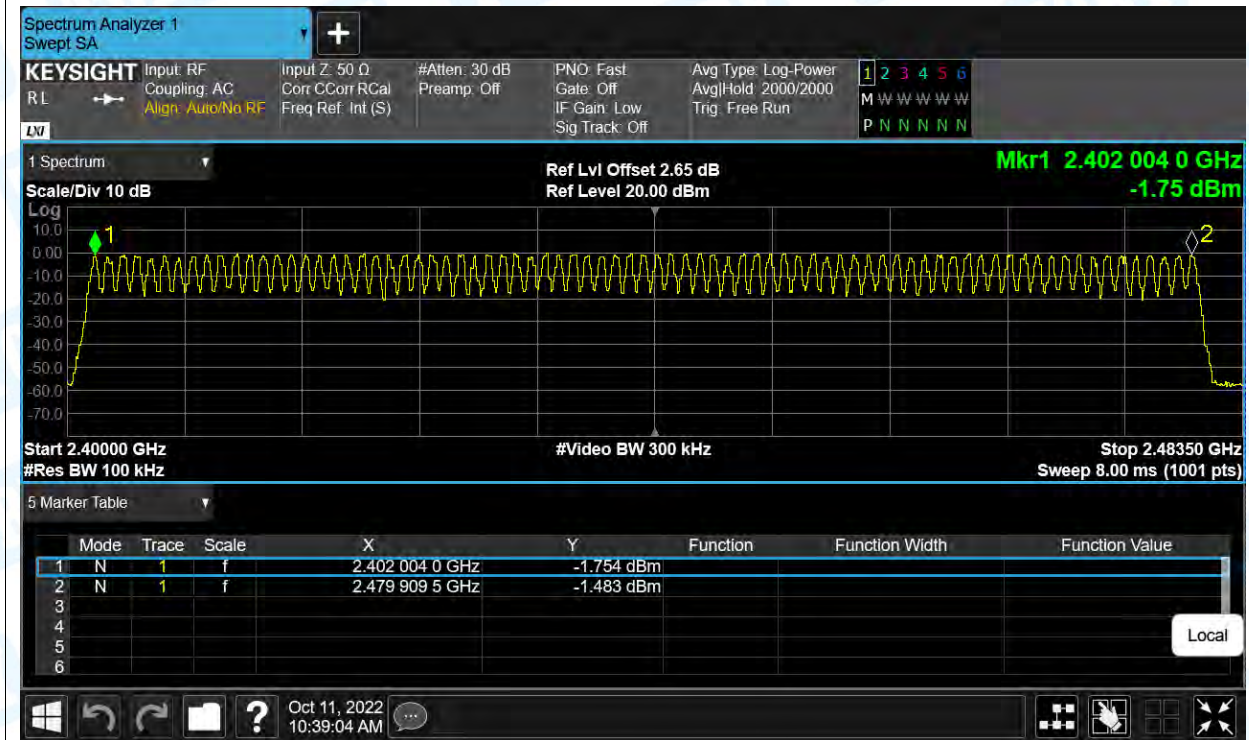


10. Number of Hopping Channel

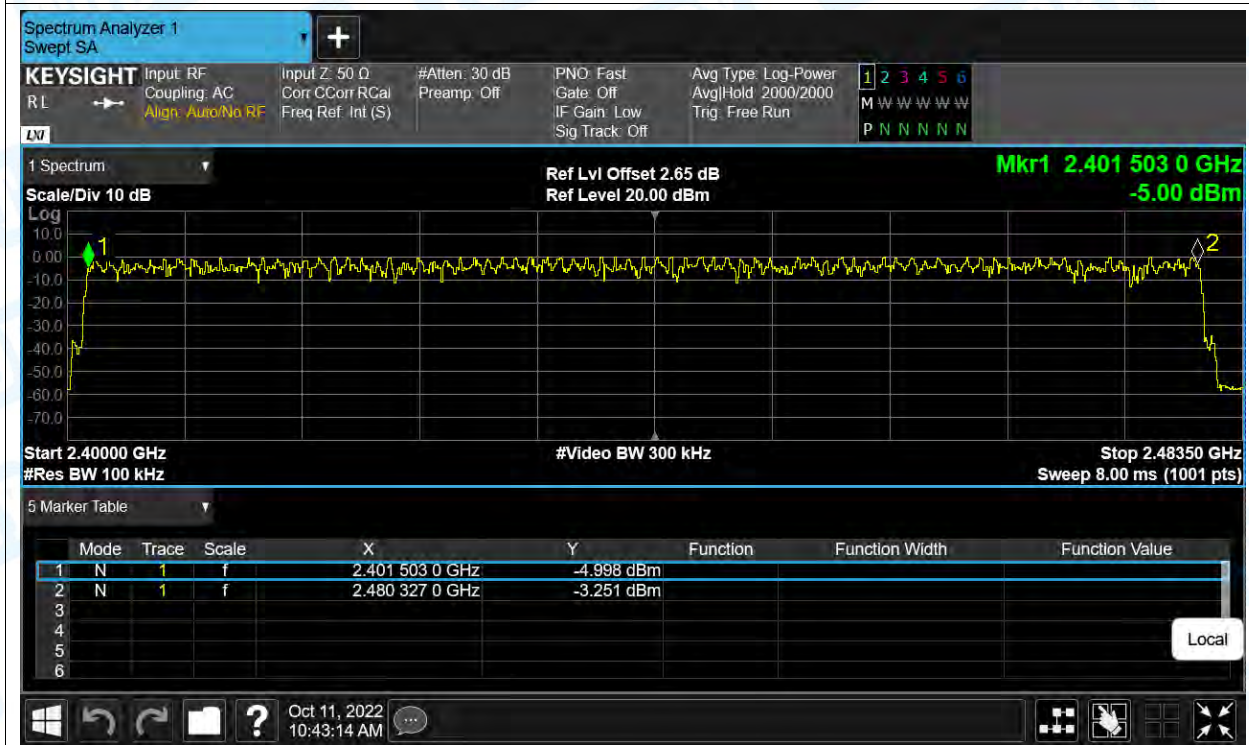
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

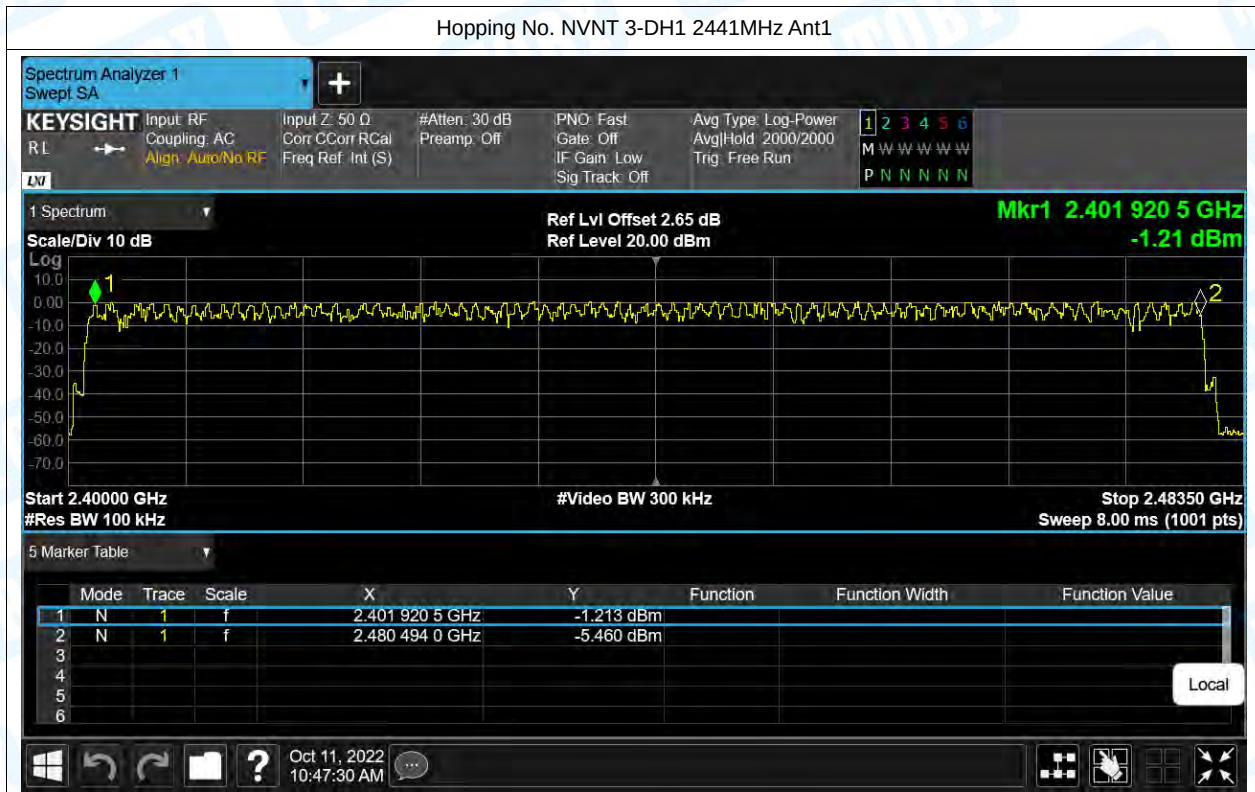
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



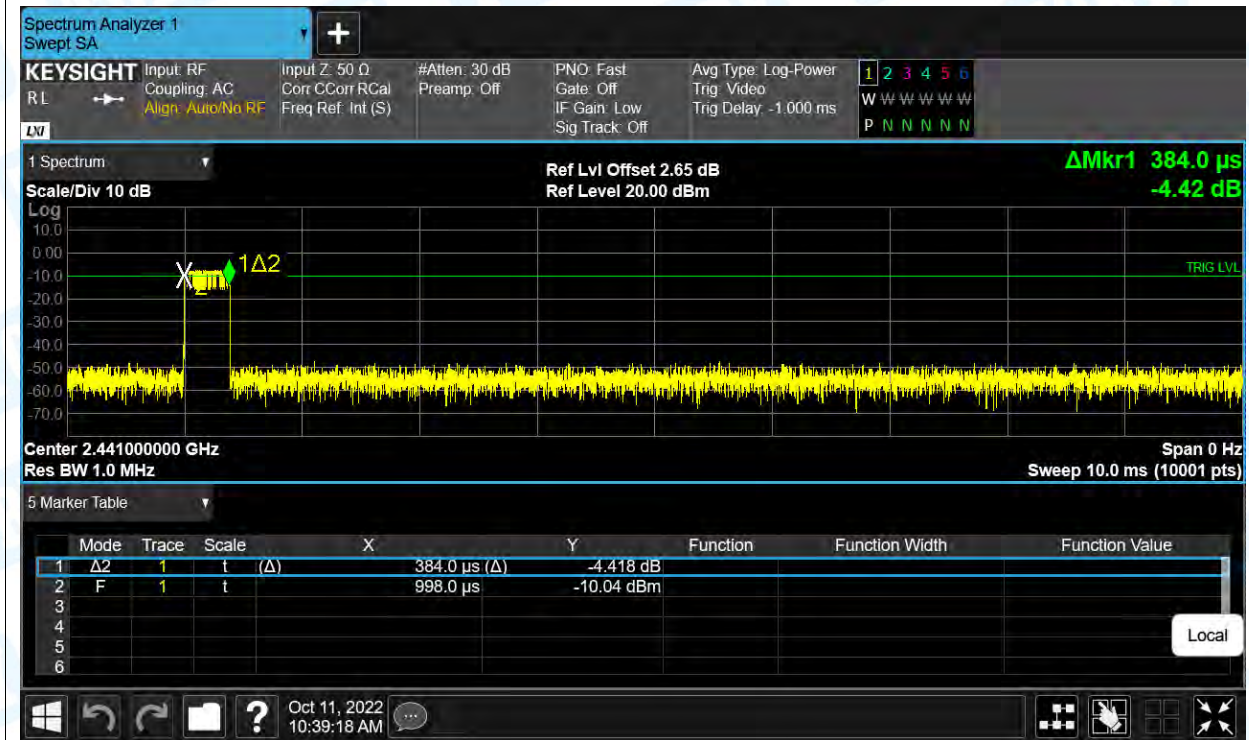


11. Dwell Time

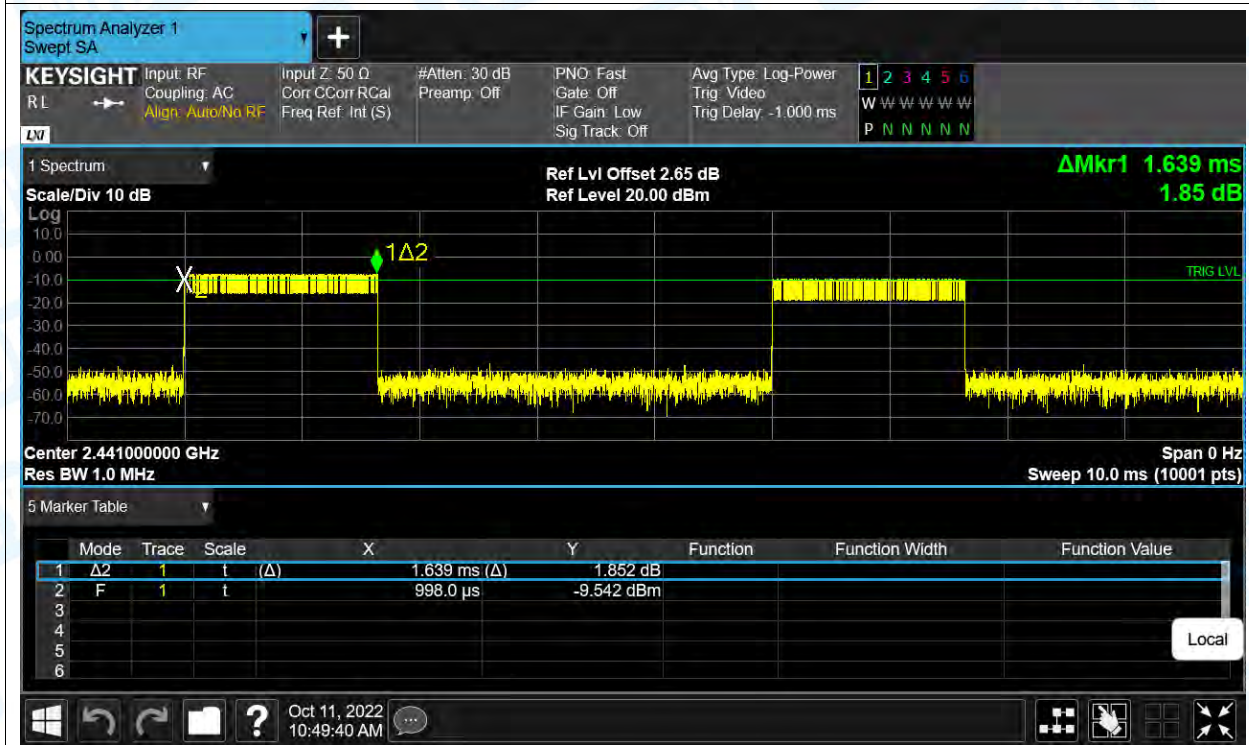
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.888	308.053	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.641	262.56	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.889	308.16	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.641	262.56	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.892	308.48	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1



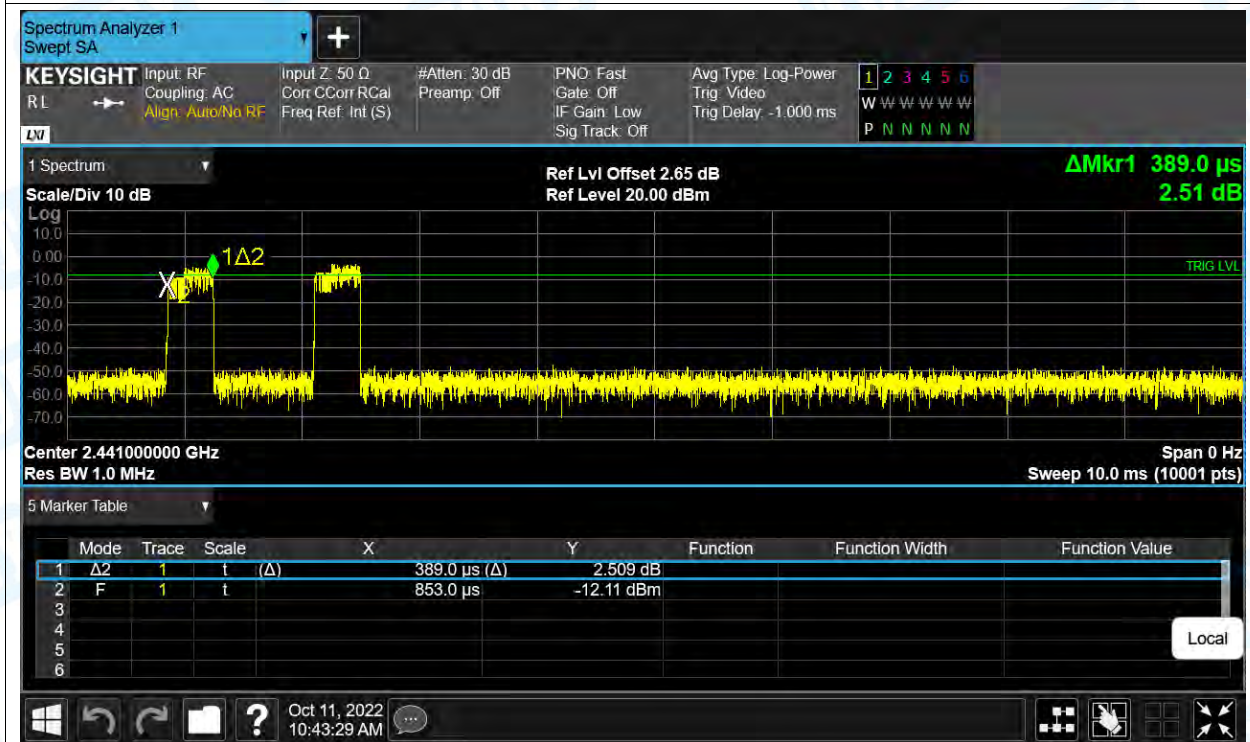
Dwell NVNT 1-DH3 2441MHz Ant1



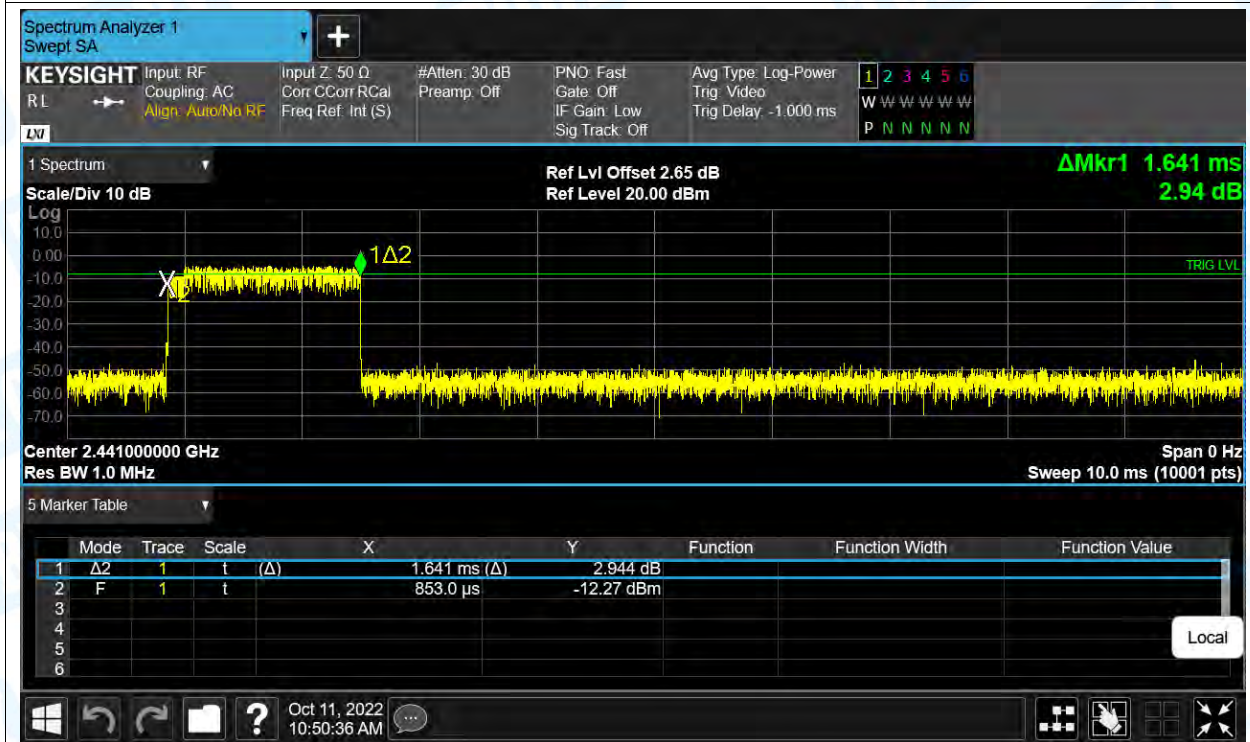
Dwell NVNT 1-DH5 2441MHz Ant1



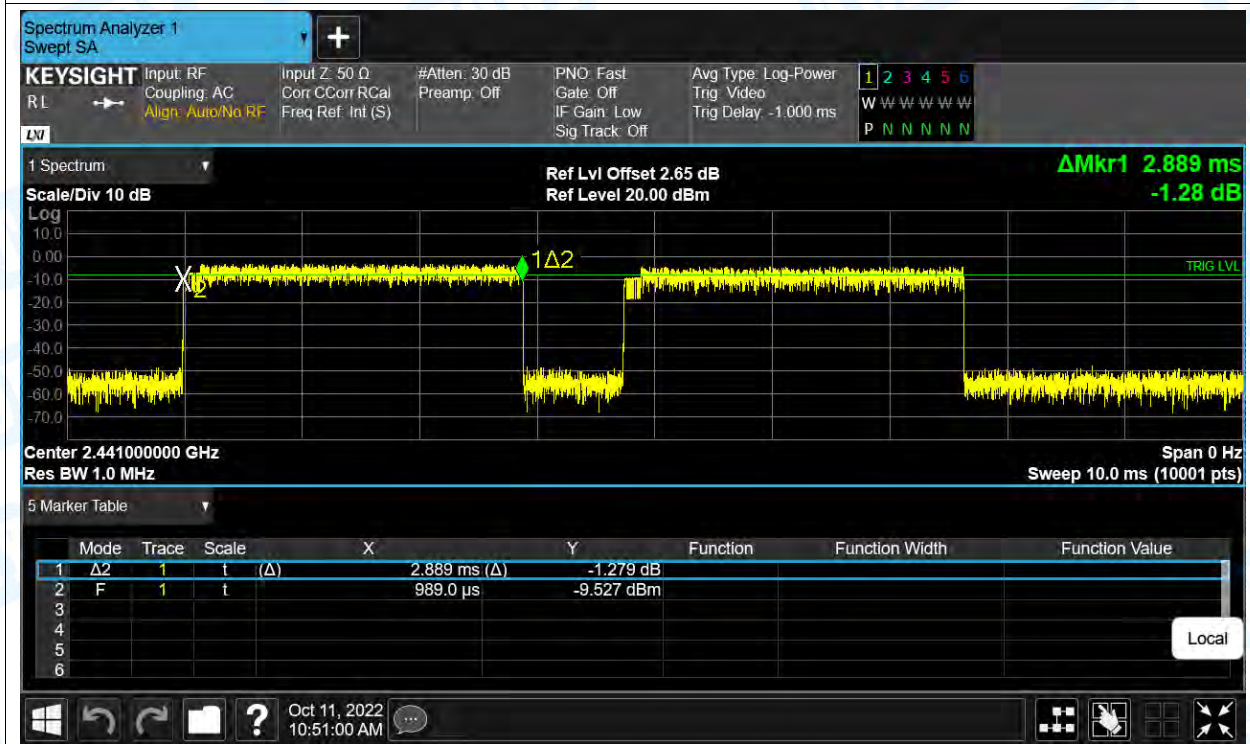
Dwell NVNT 2-DH1 2441MHz Ant1



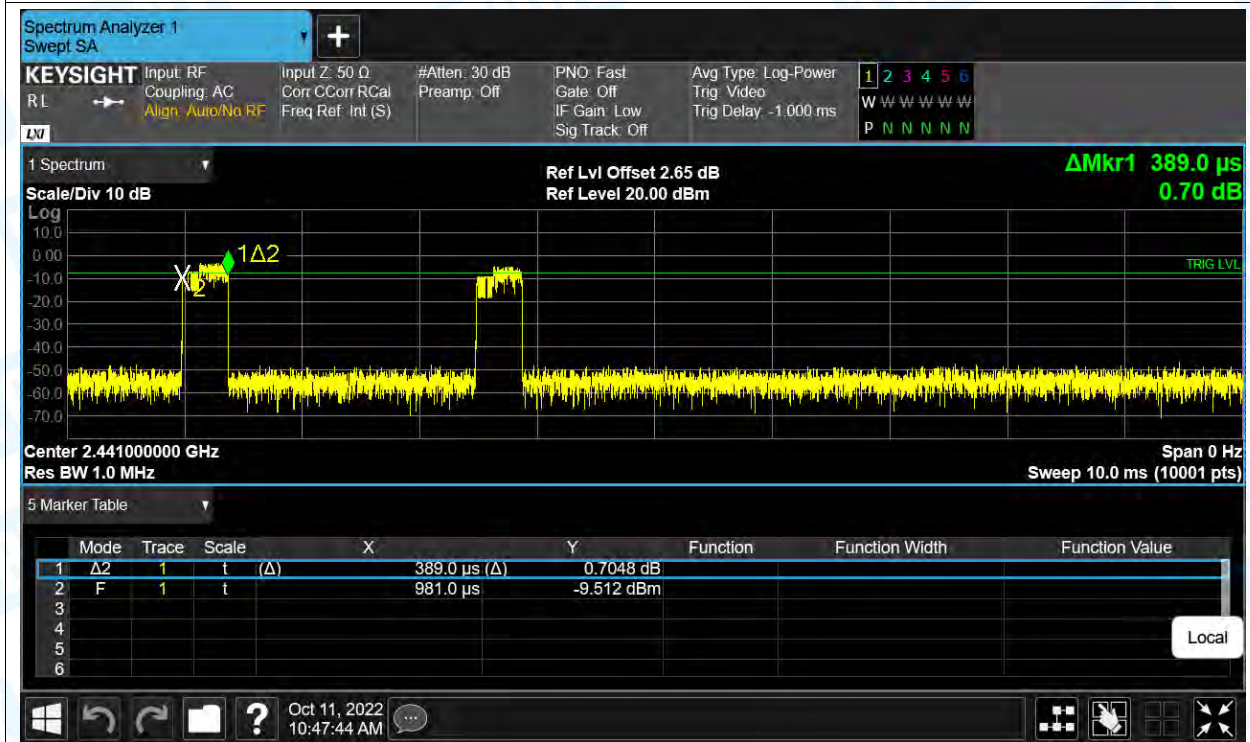
Dwell NVNT 2-DH3 2441MHz Ant1



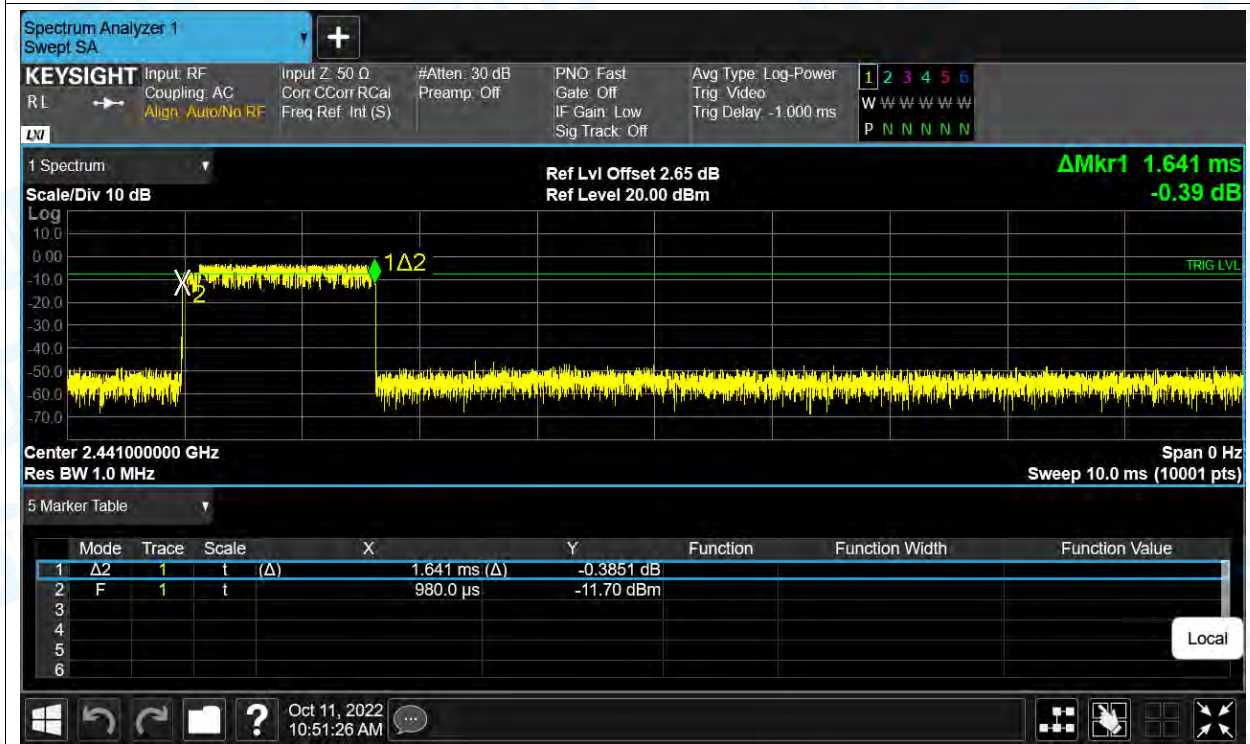
Dwell NVNT 2-DH5 2441MHz Ant1

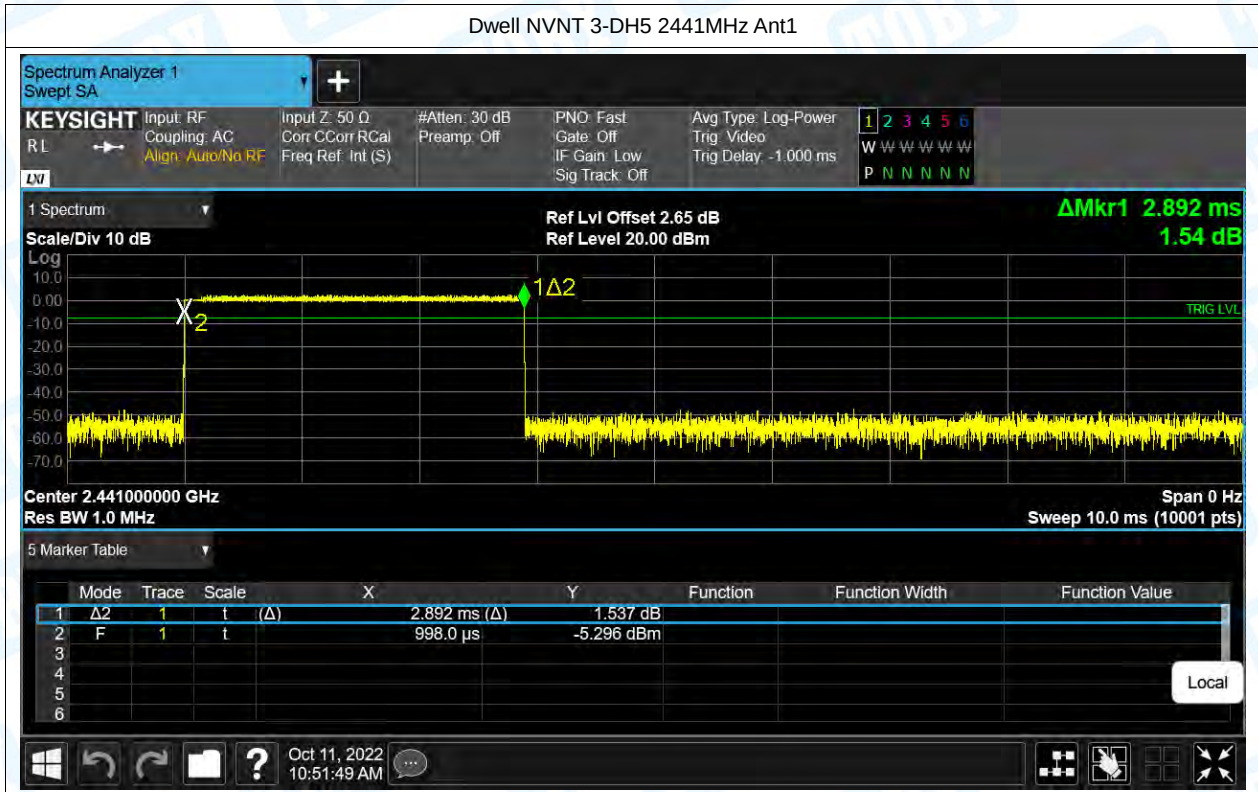


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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