

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

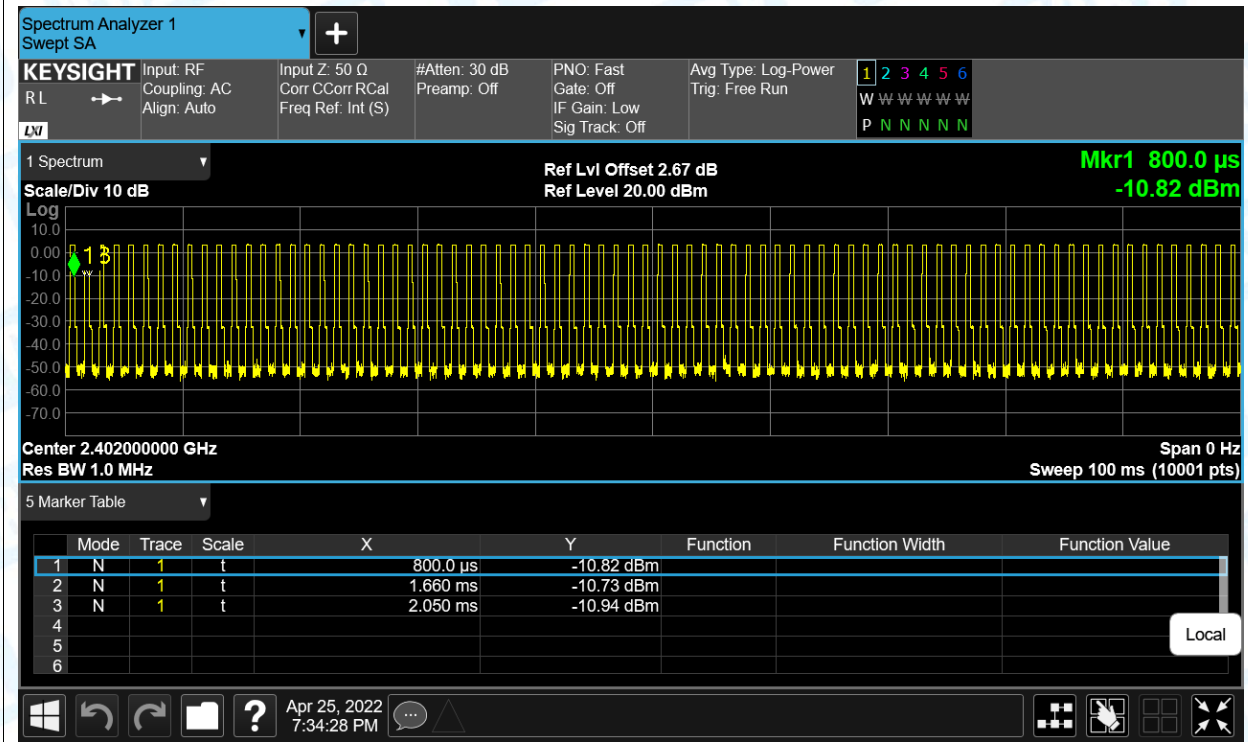
General Description of EUT	
Product Name:	3.1.2 CH Dolby Atmos Soundbar and Subwoofer
Test Model:	S312
Sample ID:	202203-0290-1-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	50%
Test Voltage:	DC18V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0290-2.	

Duty Cycle

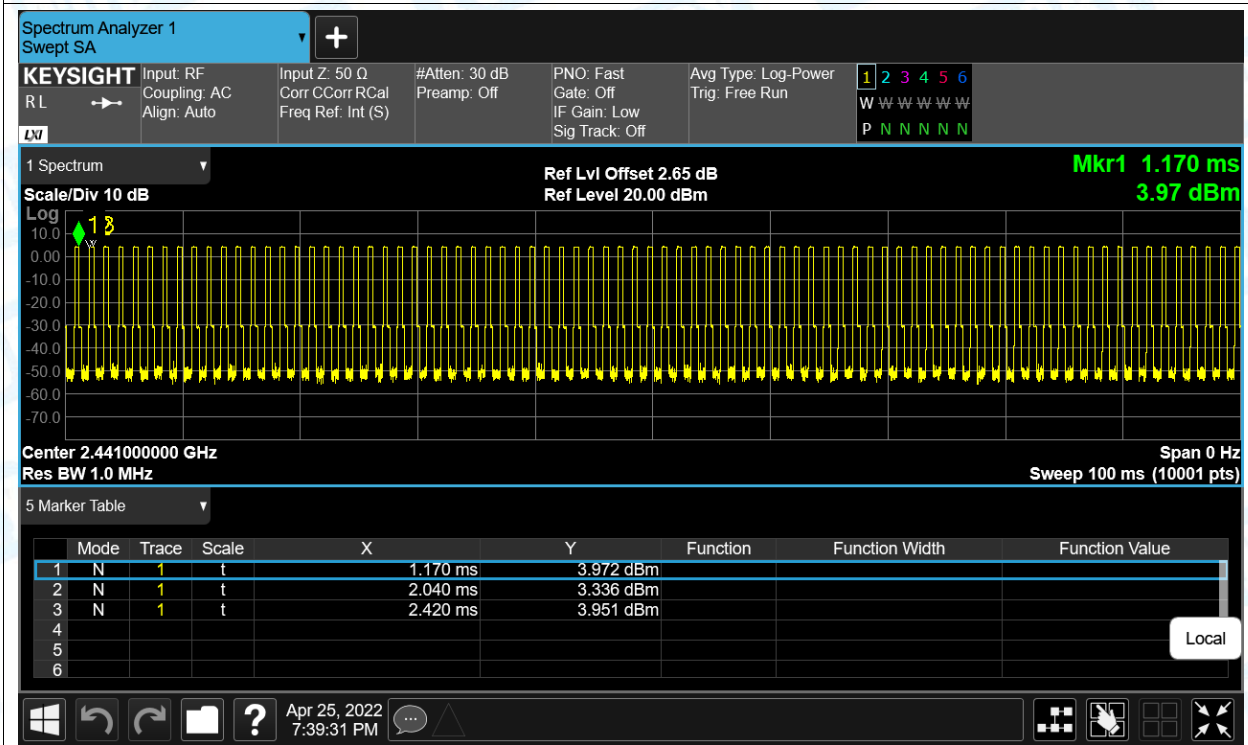
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32	4.95	2.56
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2402	Ant1	32.01	4.95	2.56
NVNT	2-DH1	2441	Ant1	32	4.95	2.56
NVNT	2-DH1	2480	Ant1	31.21	5.06	2.63
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.63
NVNT	3-DH1	2441	Ant1	32	4.95	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.63

Test Graphs

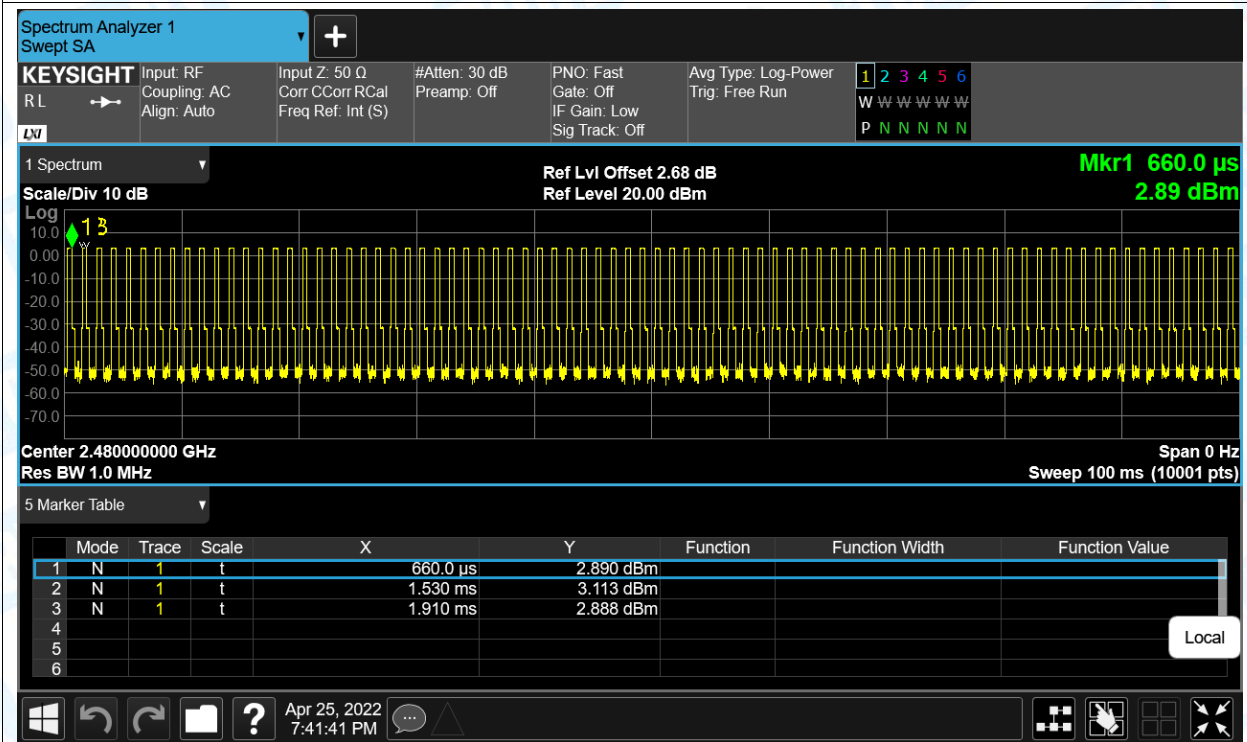
Duty Cycle NVNT 1-DH1 2402MHz Ant1



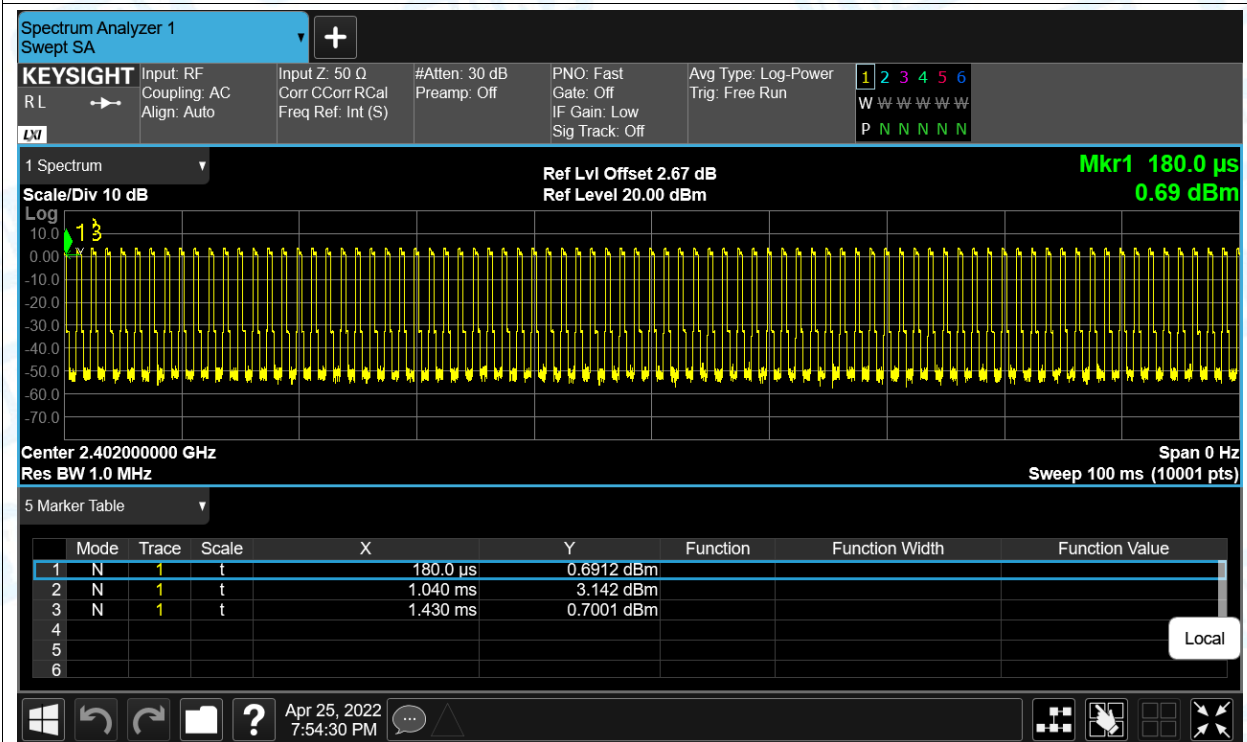
Duty Cycle NVNT 1-DH1 2441MHz Ant1



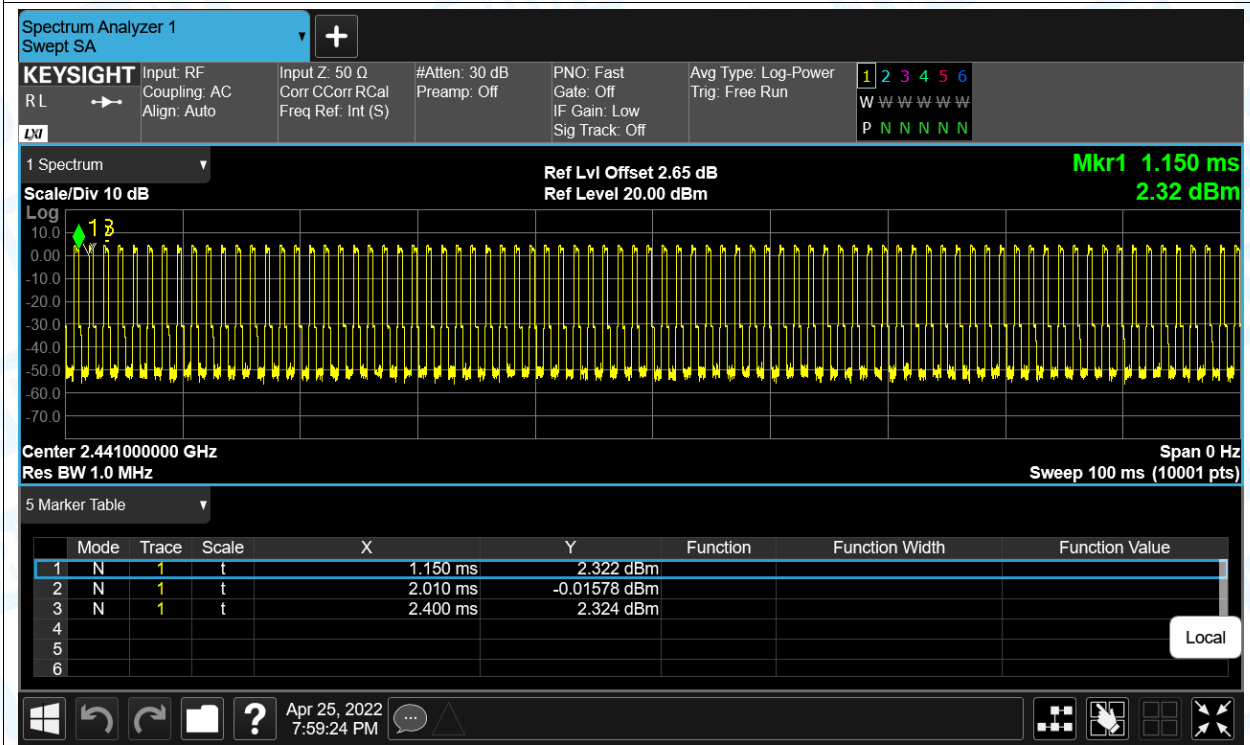
Duty Cycle NVNT 1-DH1 2480MHz Ant1



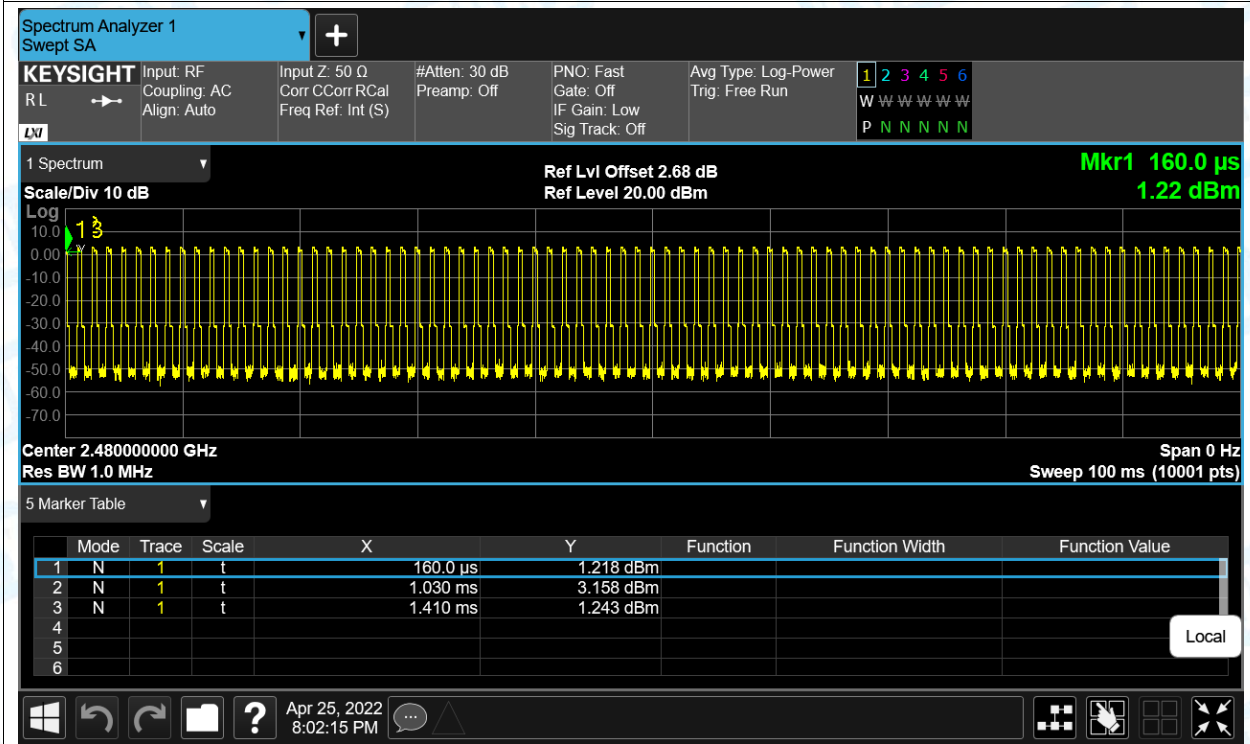
Duty Cycle NVNT 2-DH1 2402MHz Ant1



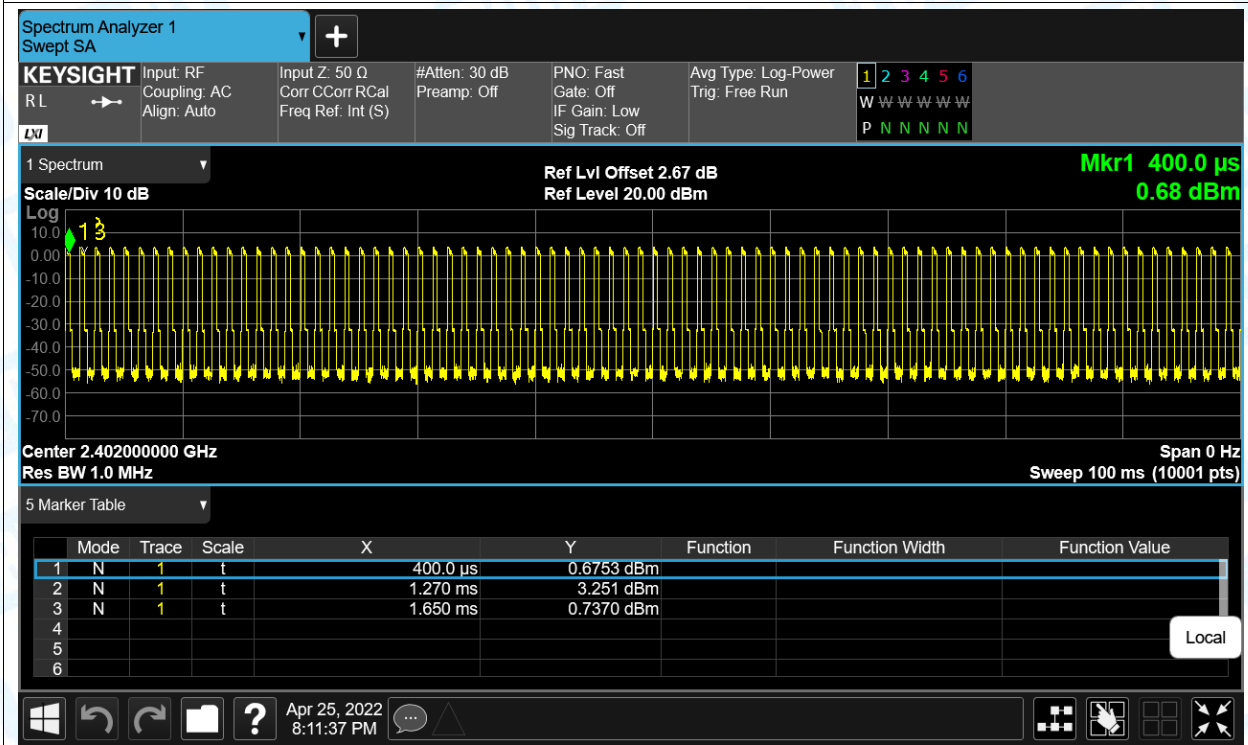
Duty Cycle NVNT 2-DH1 2441MHz Ant1



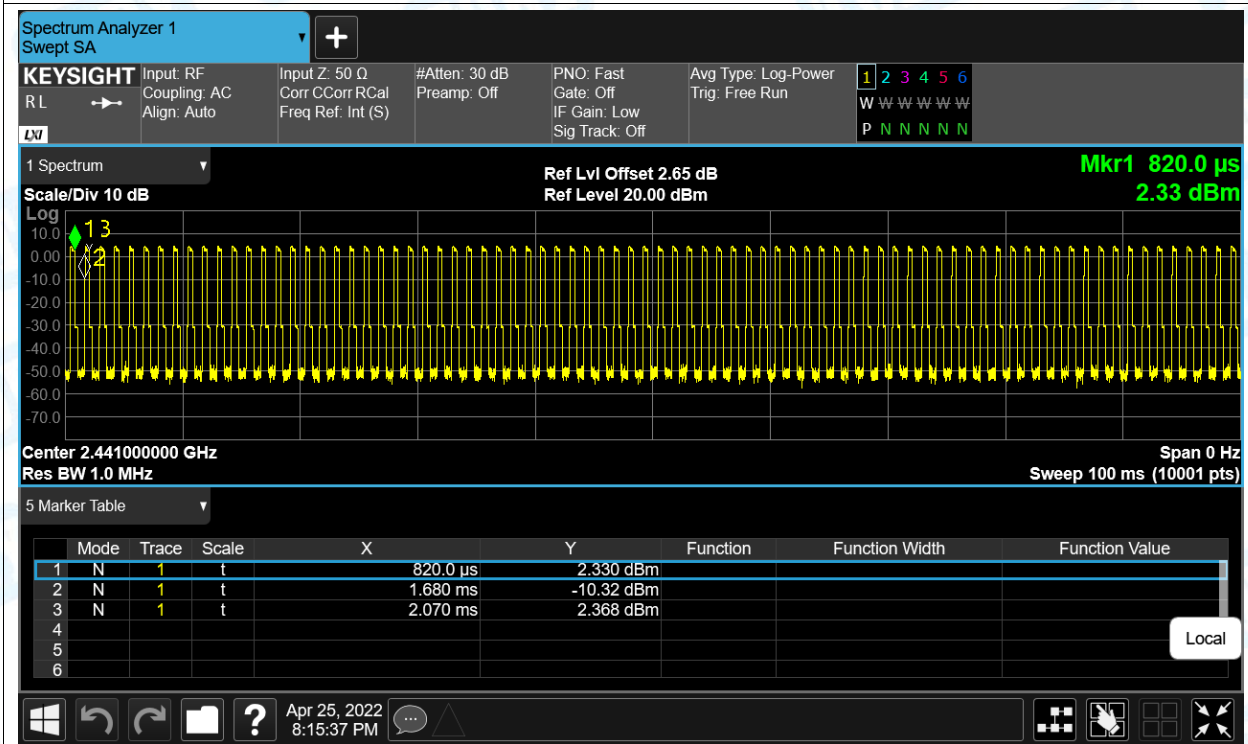
Duty Cycle NVNT 2-DH1 2480MHz Ant1

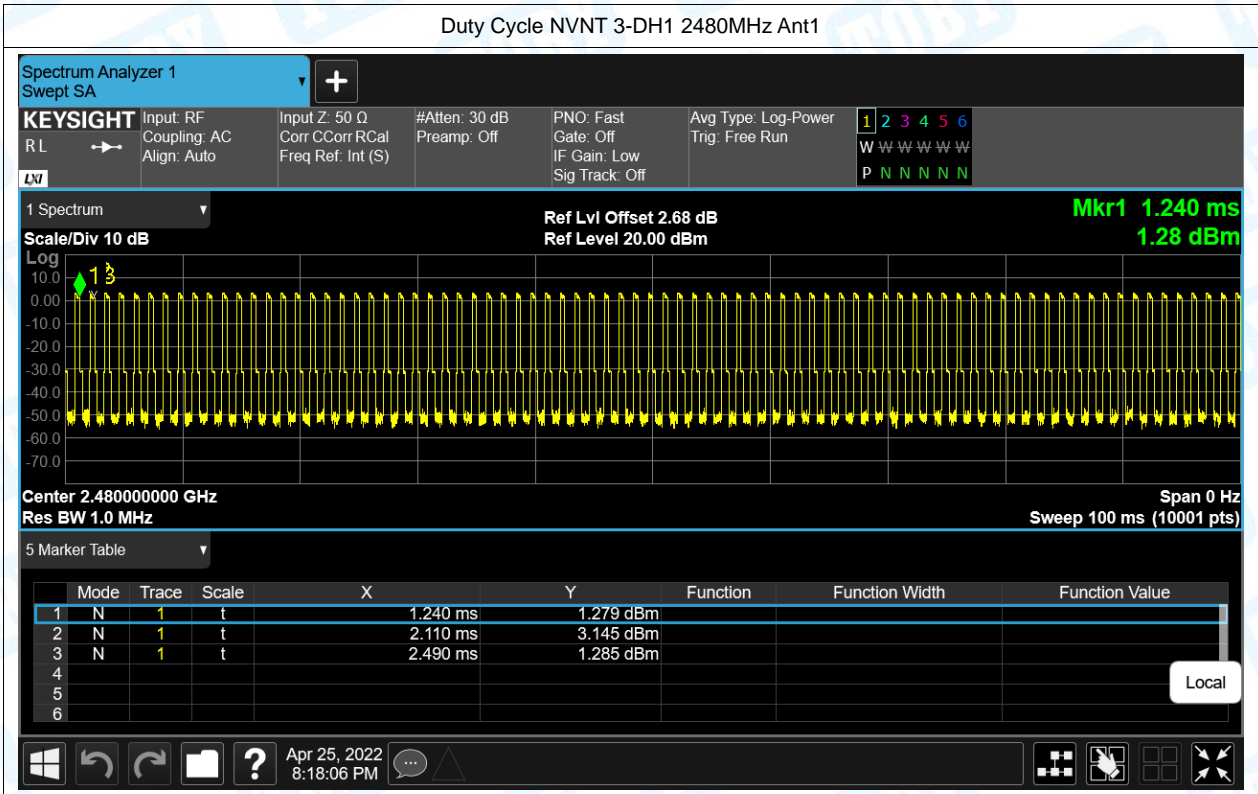


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



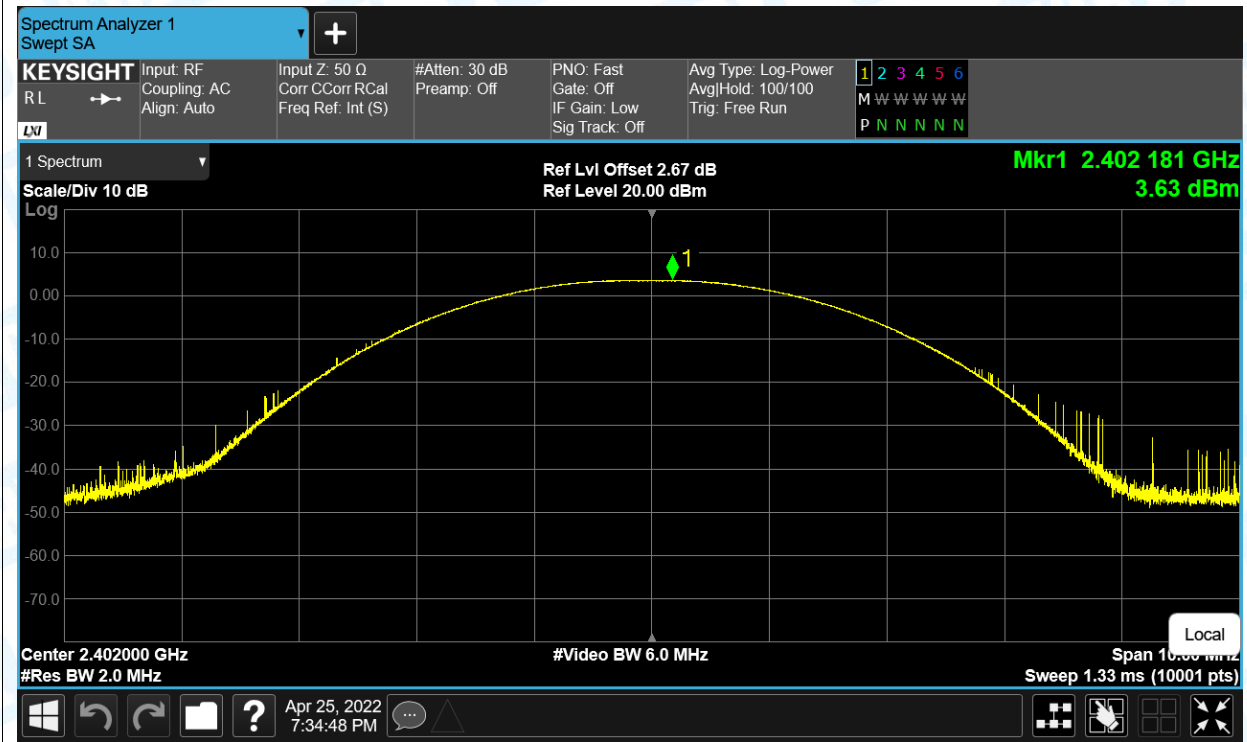


Maximum Conducted Output Power

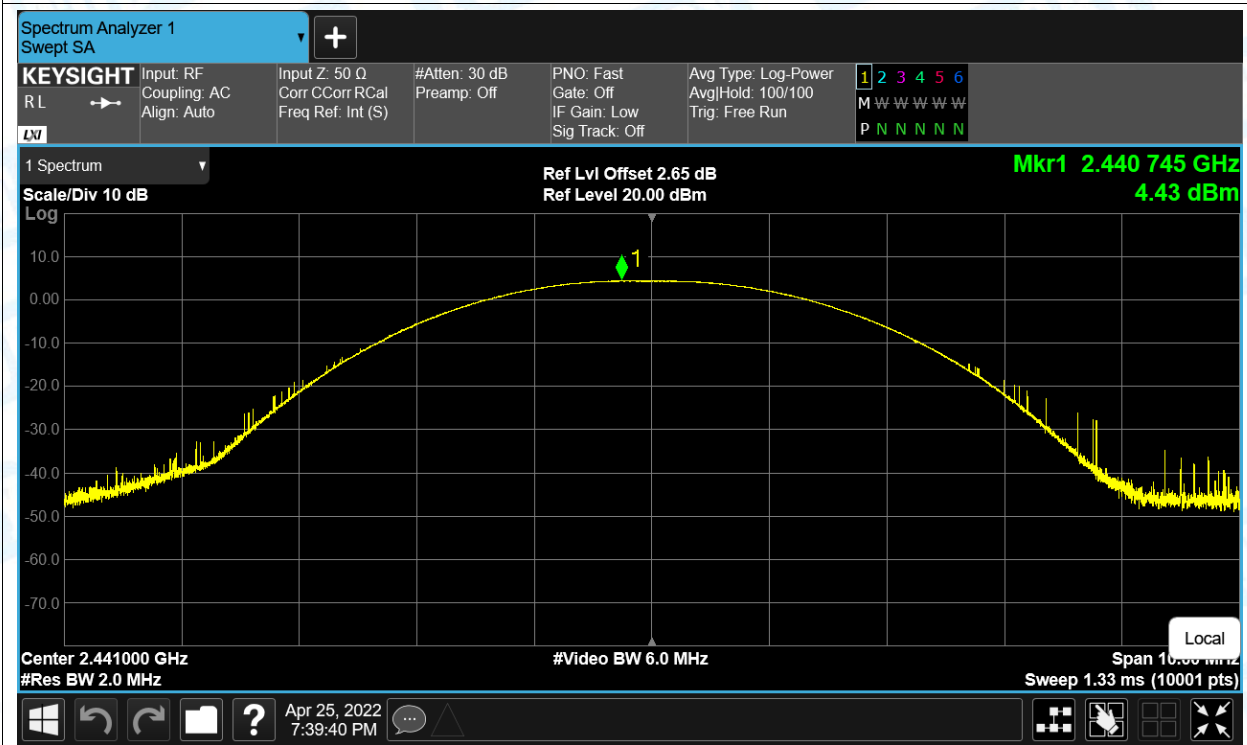
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.632	21	Pass
NVNT	1-DH1	2441	Ant1	4.434	21	Pass
NVNT	1-DH1	2480	Ant1	3.413	21	Pass
NVNT	2-DH1	2402	Ant1	3.706	21	Pass
NVNT	2-DH1	2441	Ant1	4.504	21	Pass
NVNT	2-DH1	2480	Ant1	3.447	21	Pass
NVNT	3-DH1	2402	Ant1	3.665	21	Pass
NVNT	3-DH1	2441	Ant1	4.478	21	Pass
NVNT	3-DH1	2480	Ant1	3.432	21	Pass

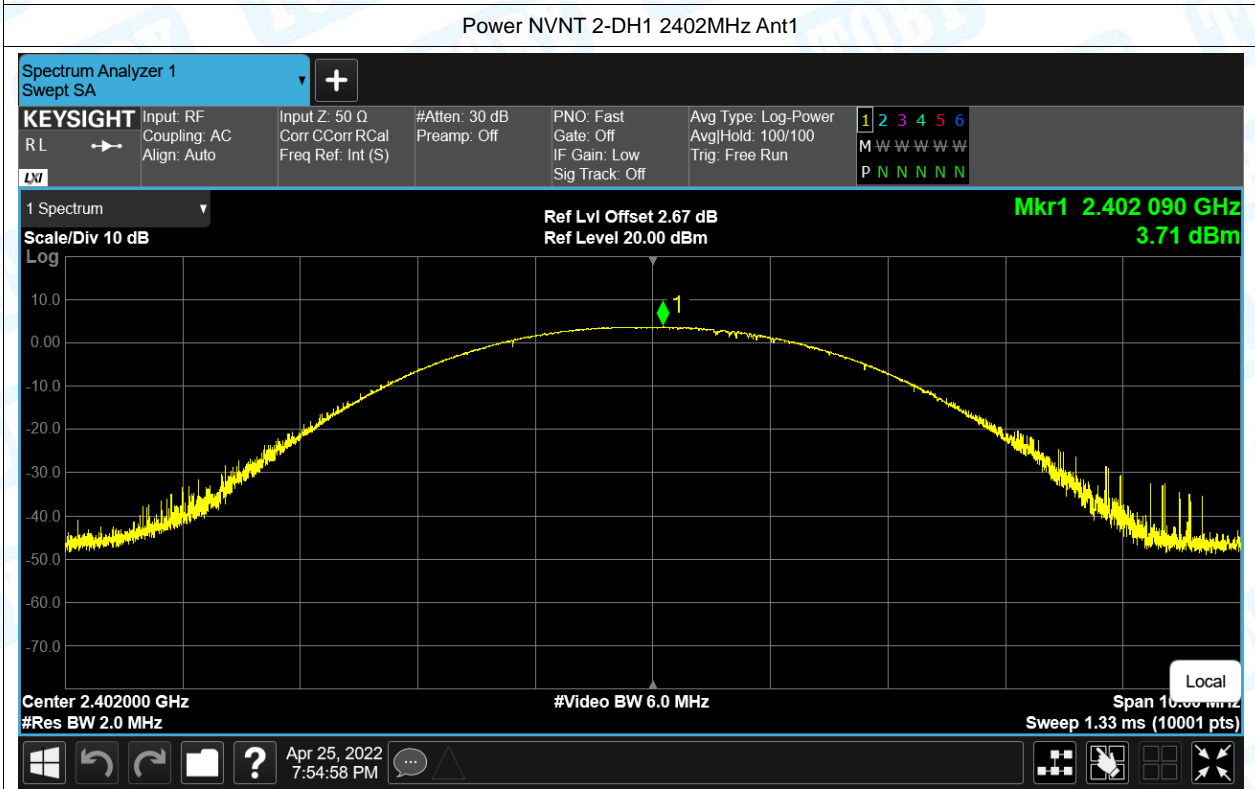
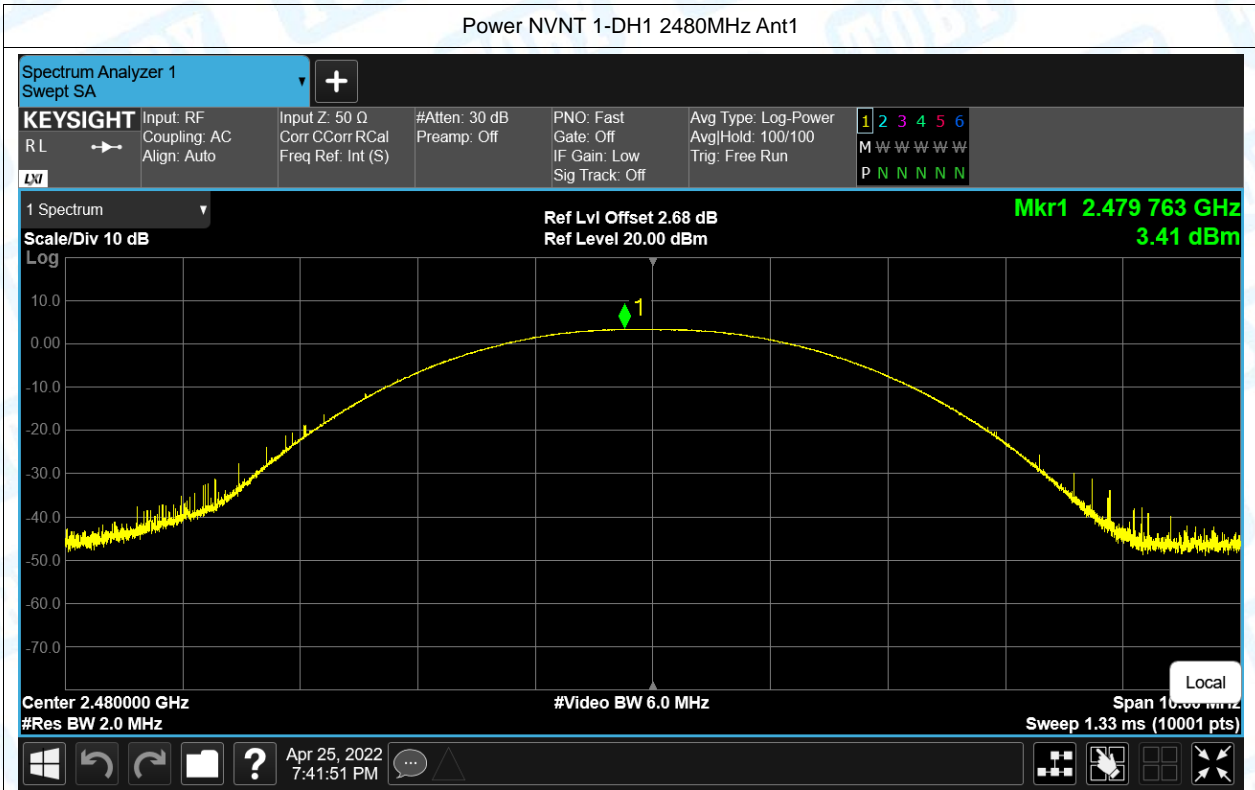
Test Graphs

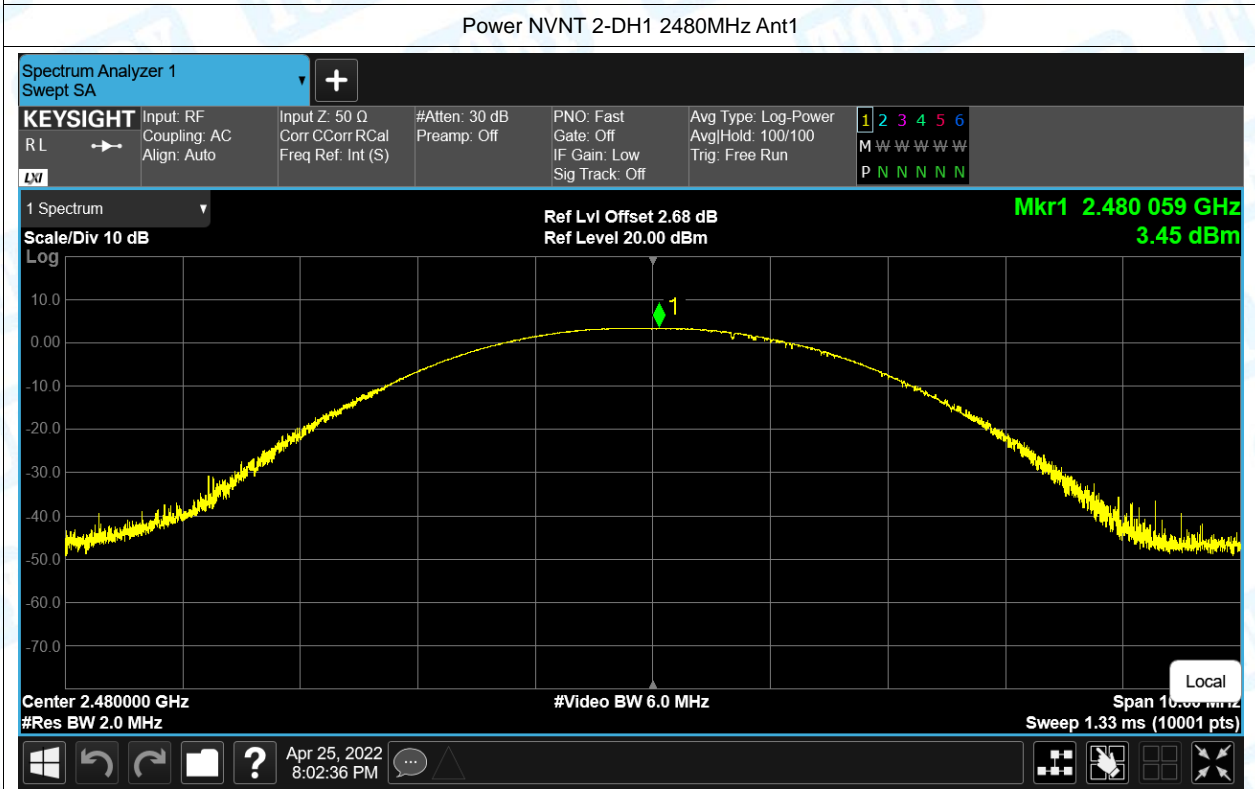
Power NVNT 1-DH1 2402MHz Ant1

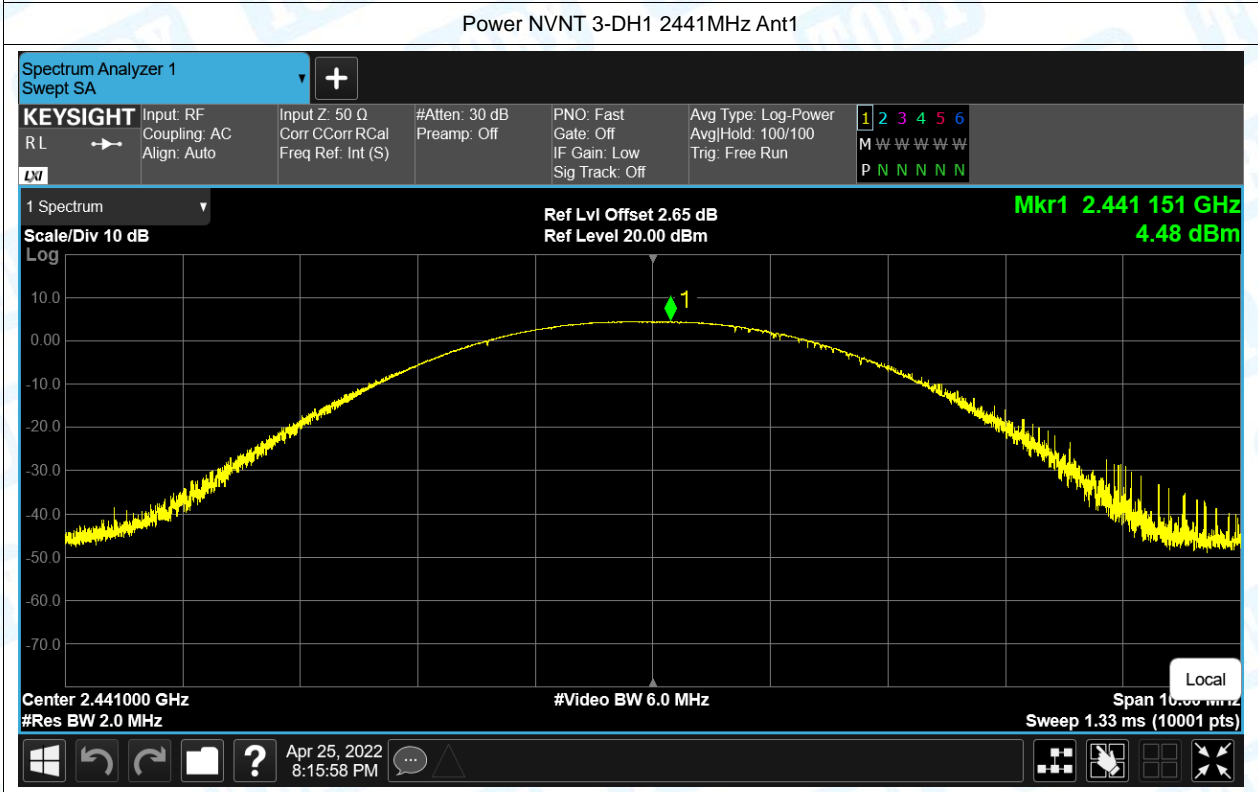


Power NVNT 1-DH1 2441MHz Ant1









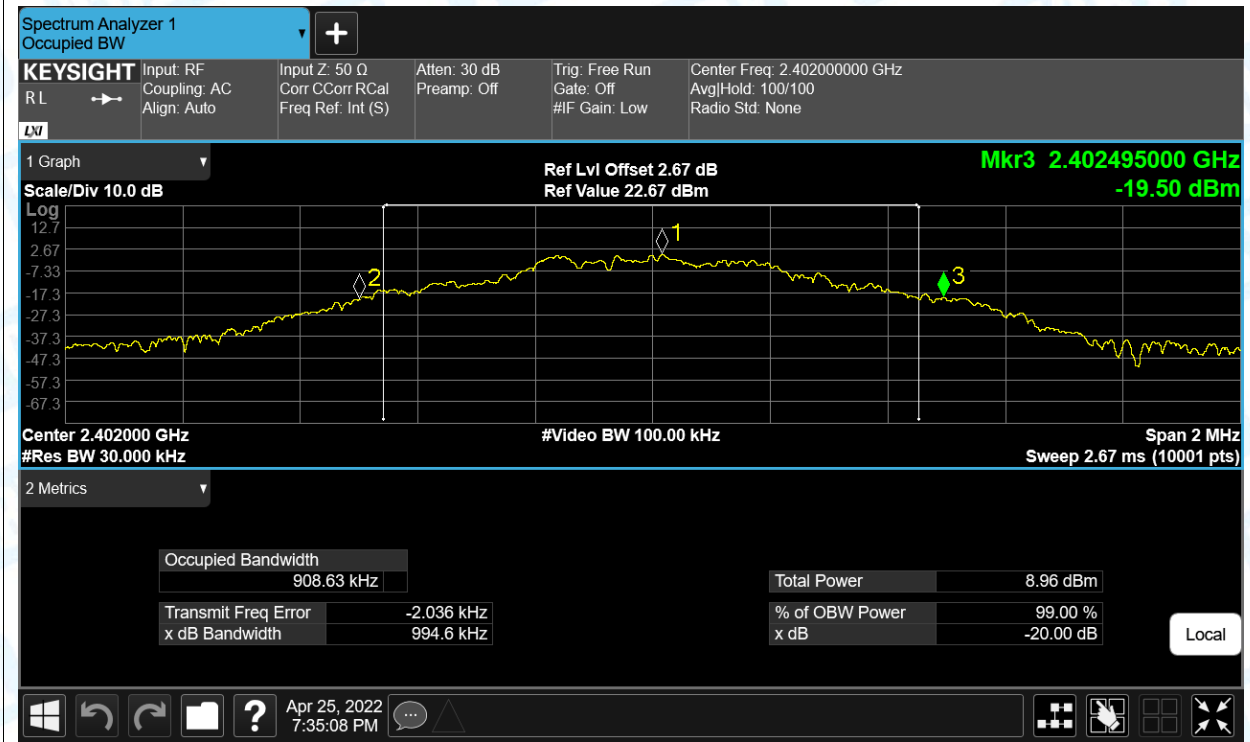


-20dB Bandwidth

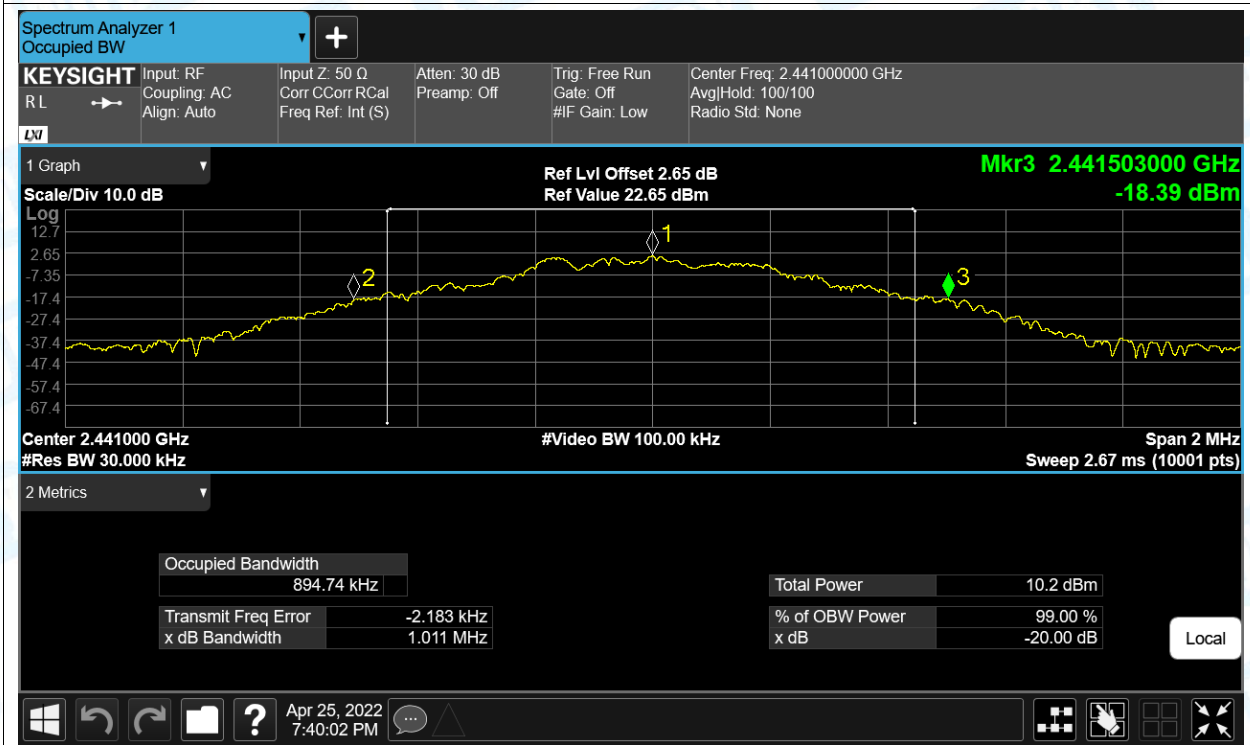
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	2/3 *20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.99	0.66	Pass
NVNT	1-DH1	2441	Ant1	1.01	0.673	Pass
NVNT	1-DH1	2480	Ant1	1	0.66	Pass
NVNT	2-DH1	2402	Ant1	1.29	0.86	Pass
NVNT	2-DH1	2441	Ant1	1.3	0.87	Pass
NVNT	2-DH1	2480	Ant1	1.26	0.84	Pass
NVNT	3-DH1	2402	Ant1	1.27	0.84	Pass
NVNT	3-DH1	2441	Ant1	1.29	0.86	Pass
NVNT	3-DH1	2480	Ant1	1.28	0.85	Pass

Test Graphs

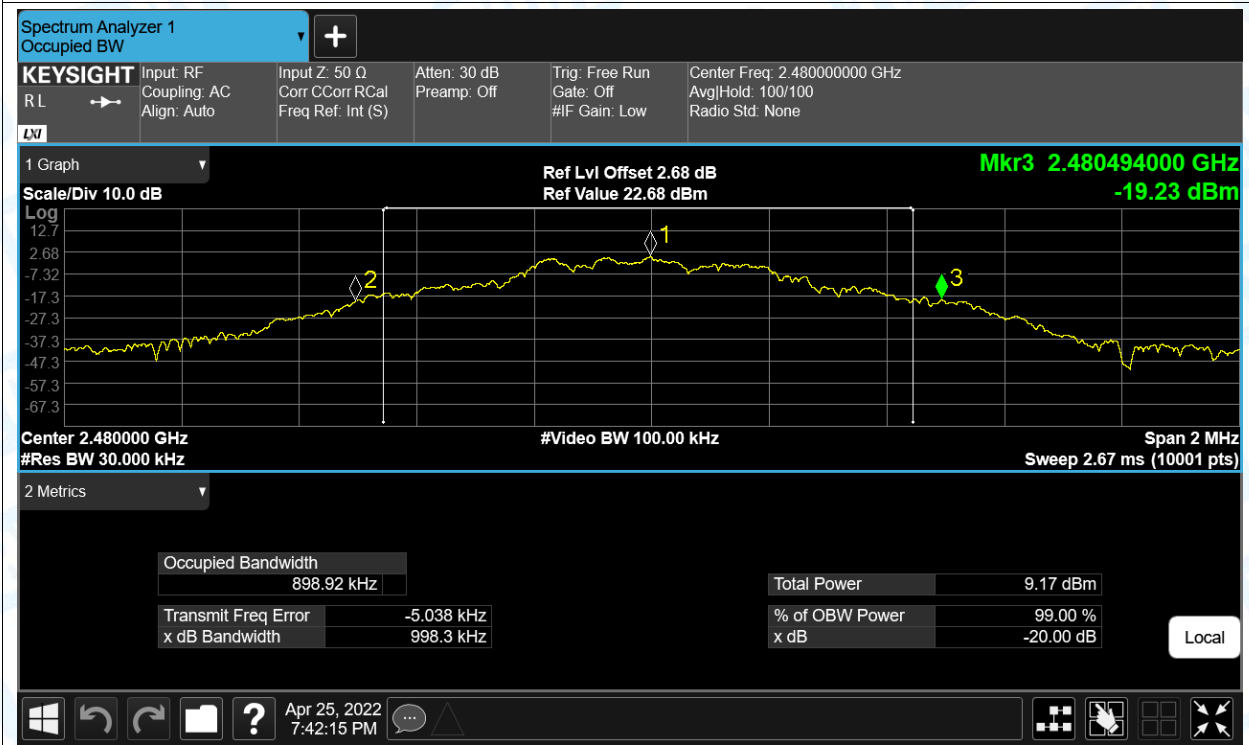
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



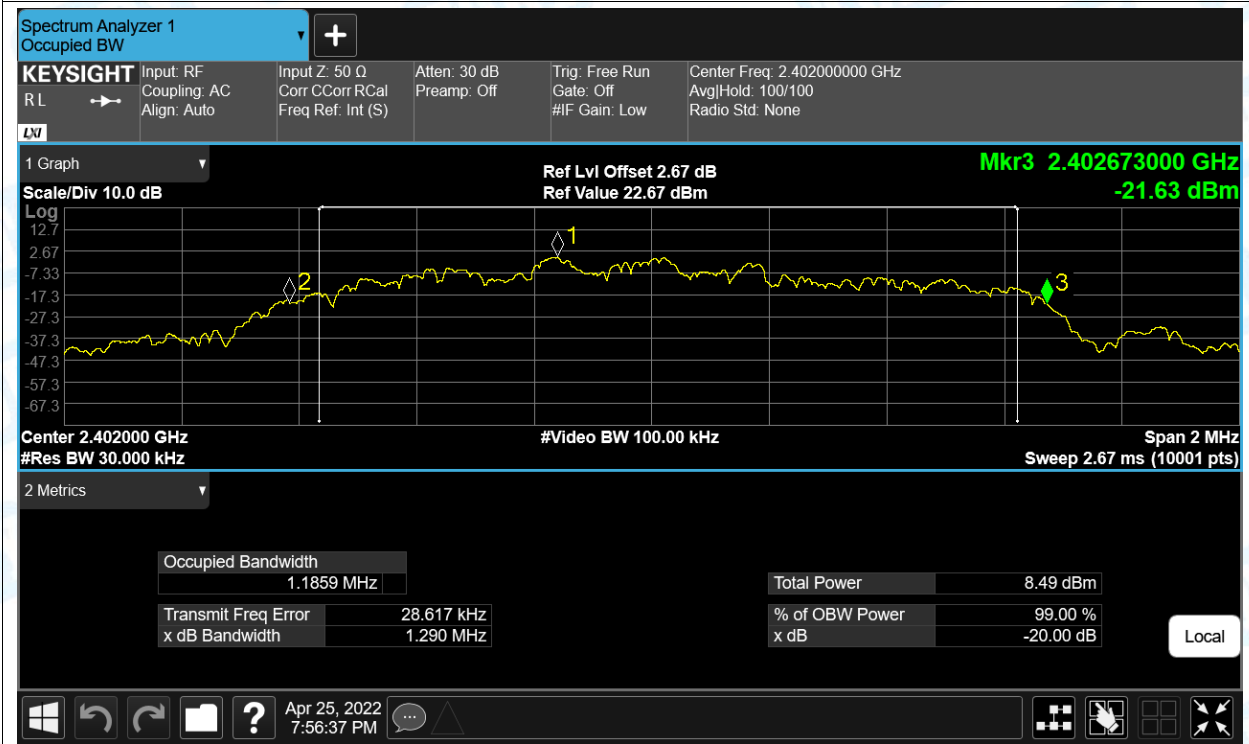
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



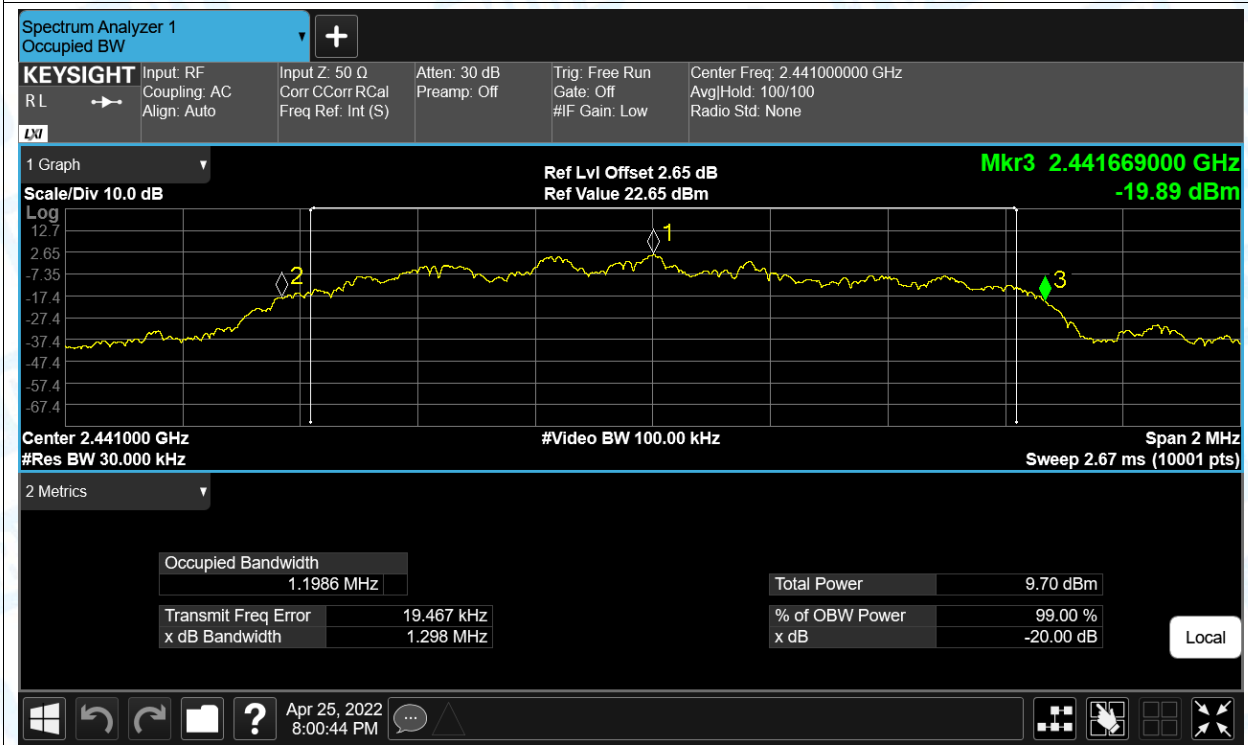
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



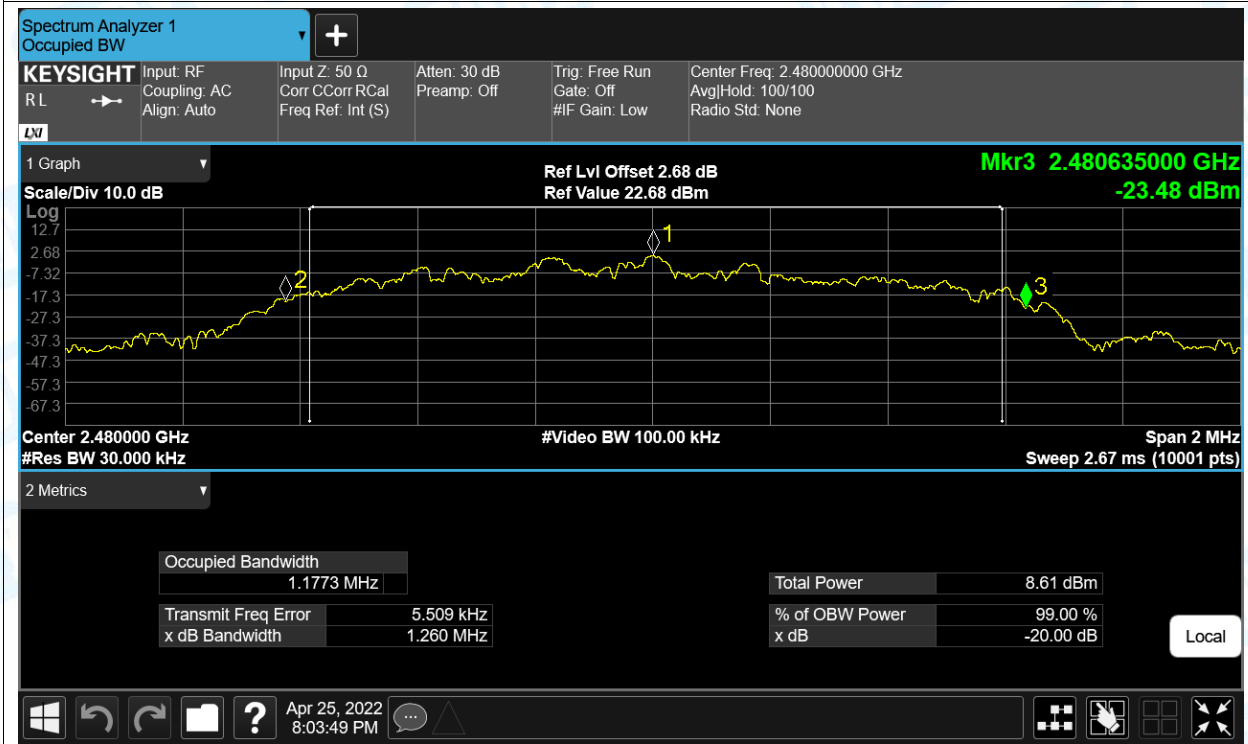
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



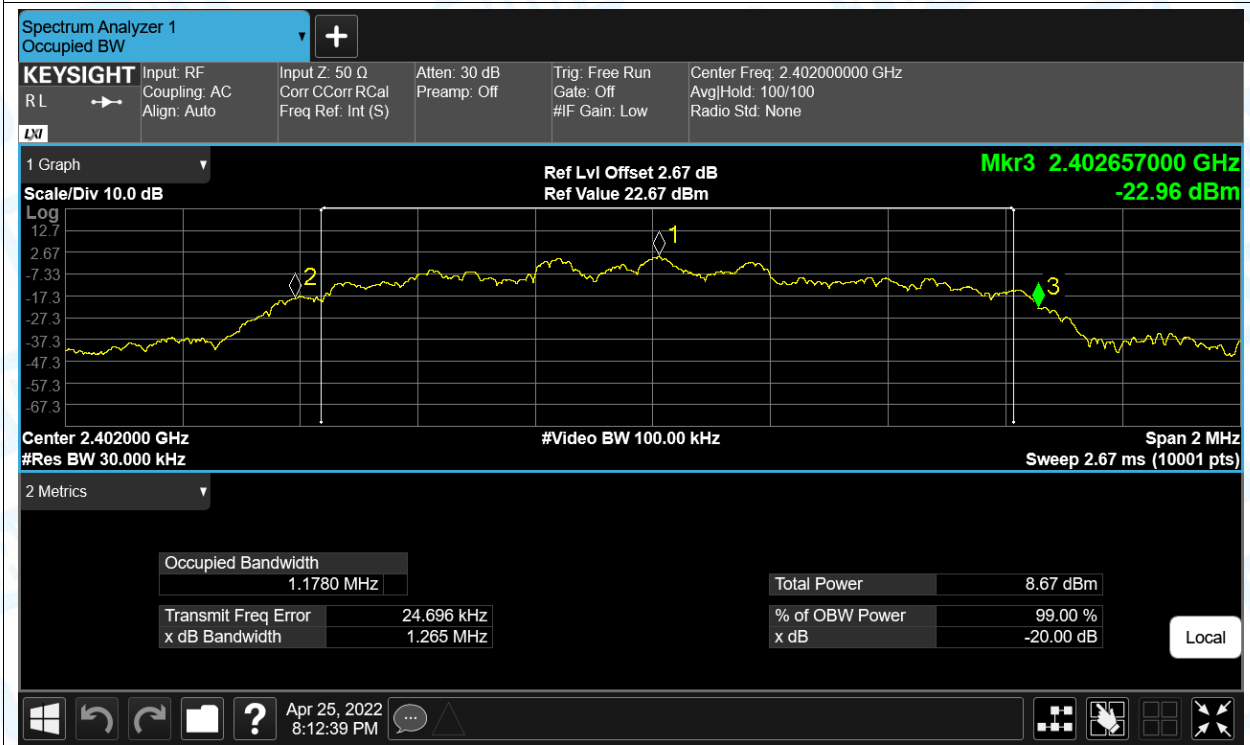
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



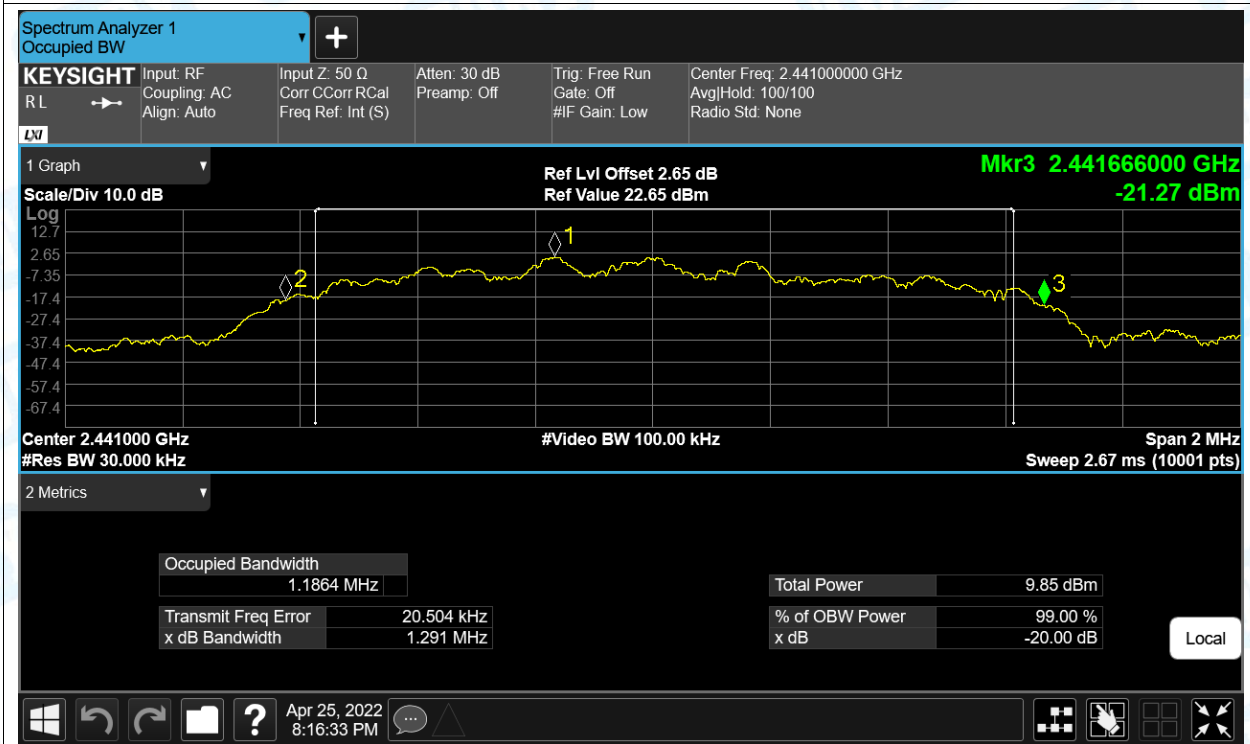
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

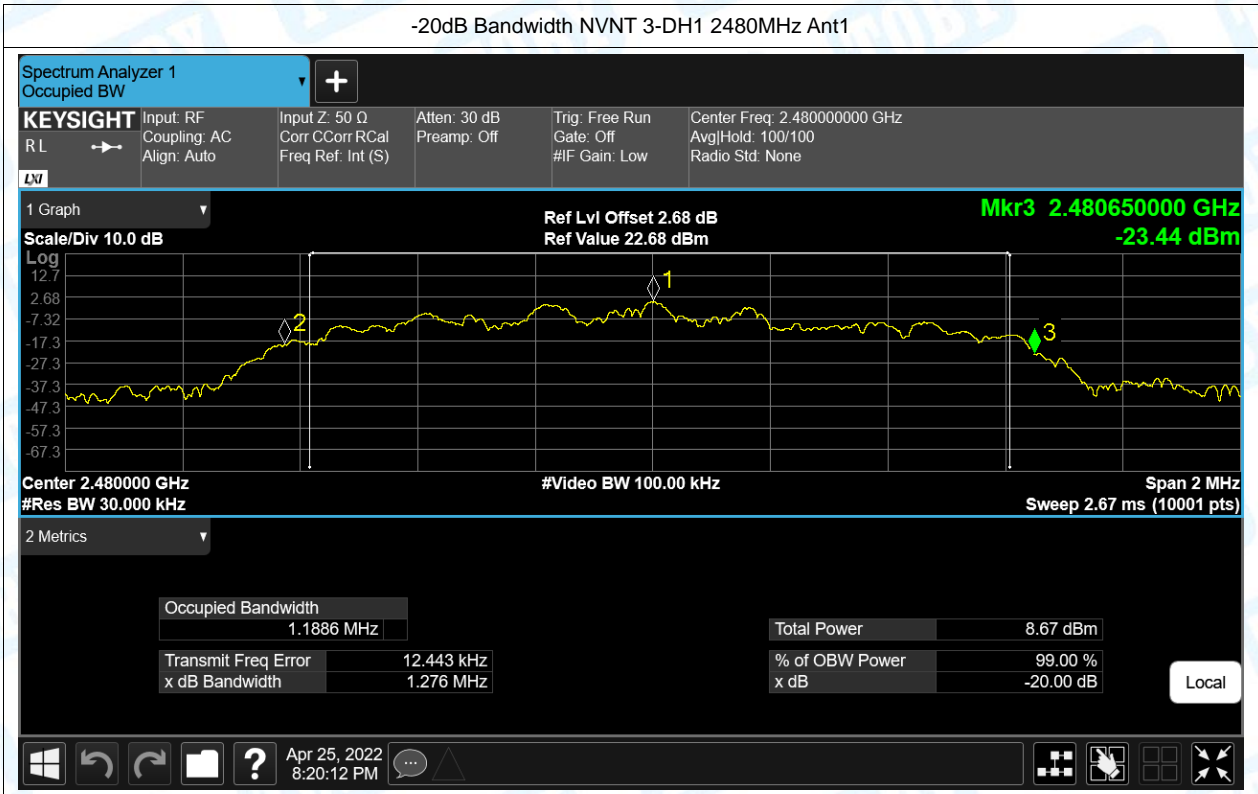


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



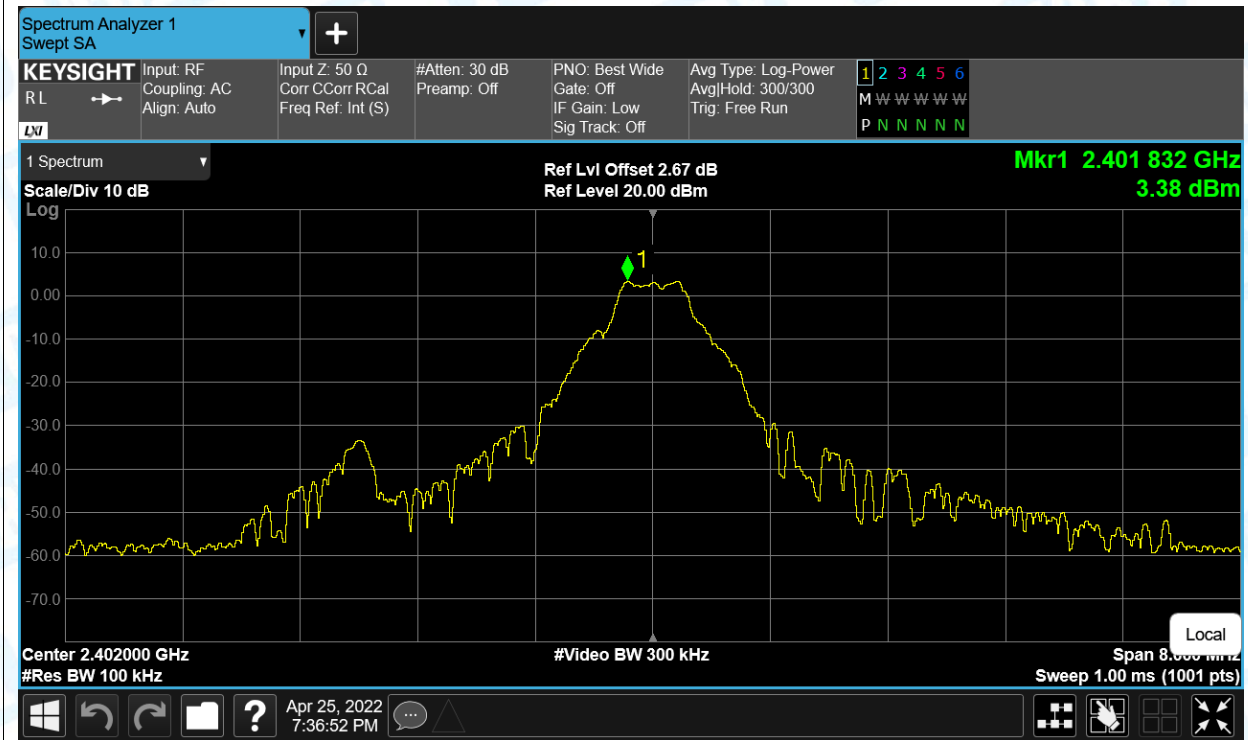


Band Edge

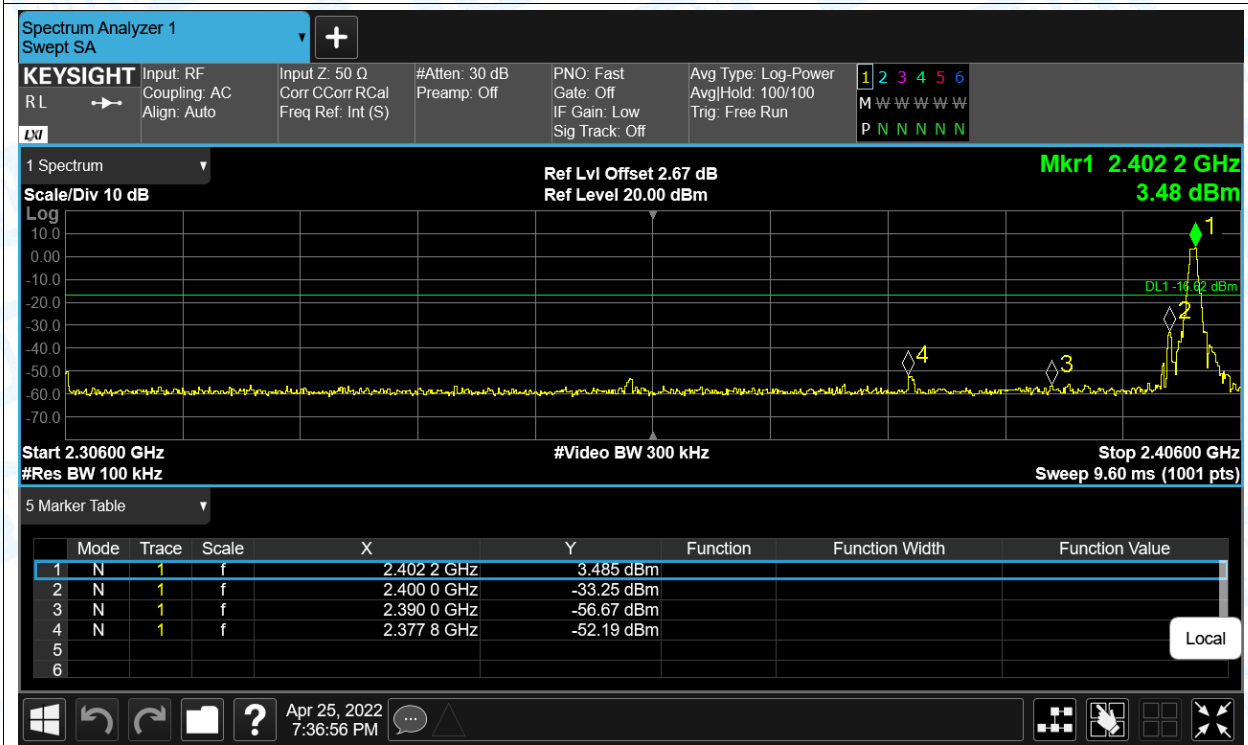
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-55.57	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-59.52	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-57.31	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-59.43	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-56.51	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-59.46	-20	Pass

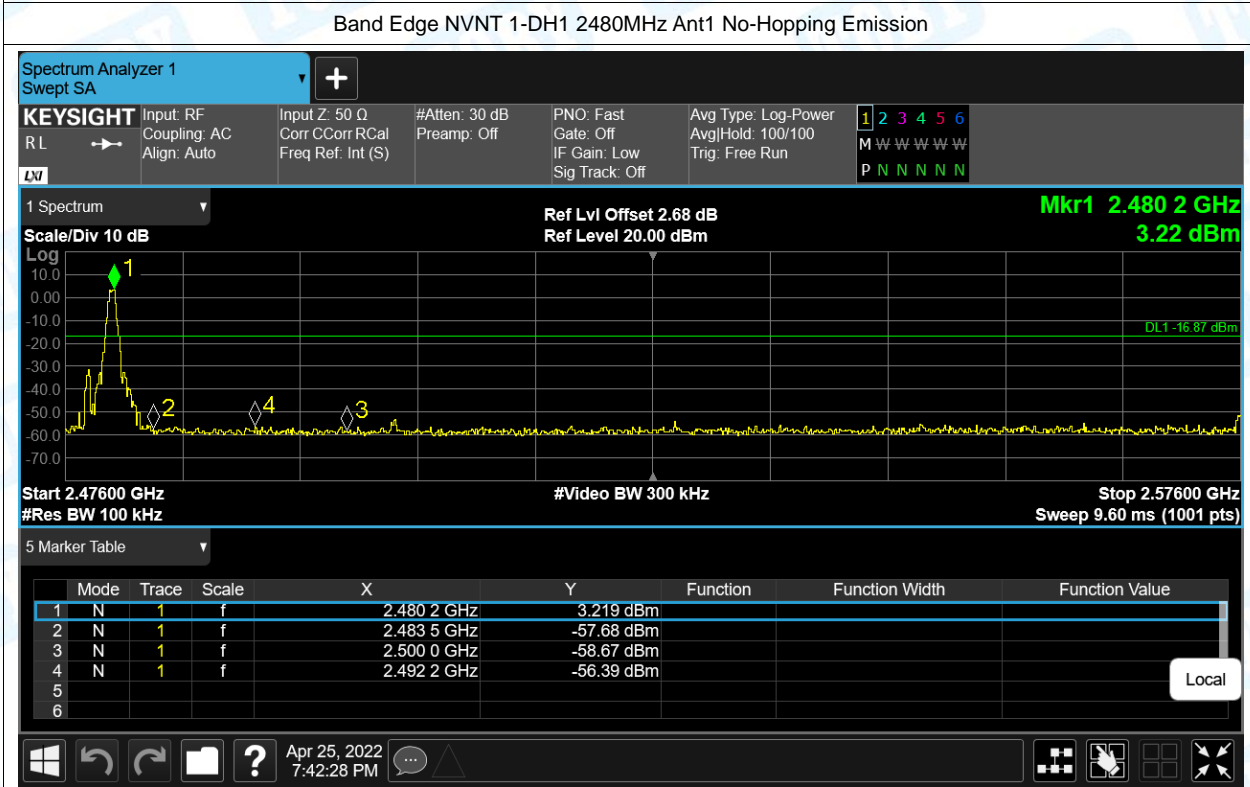
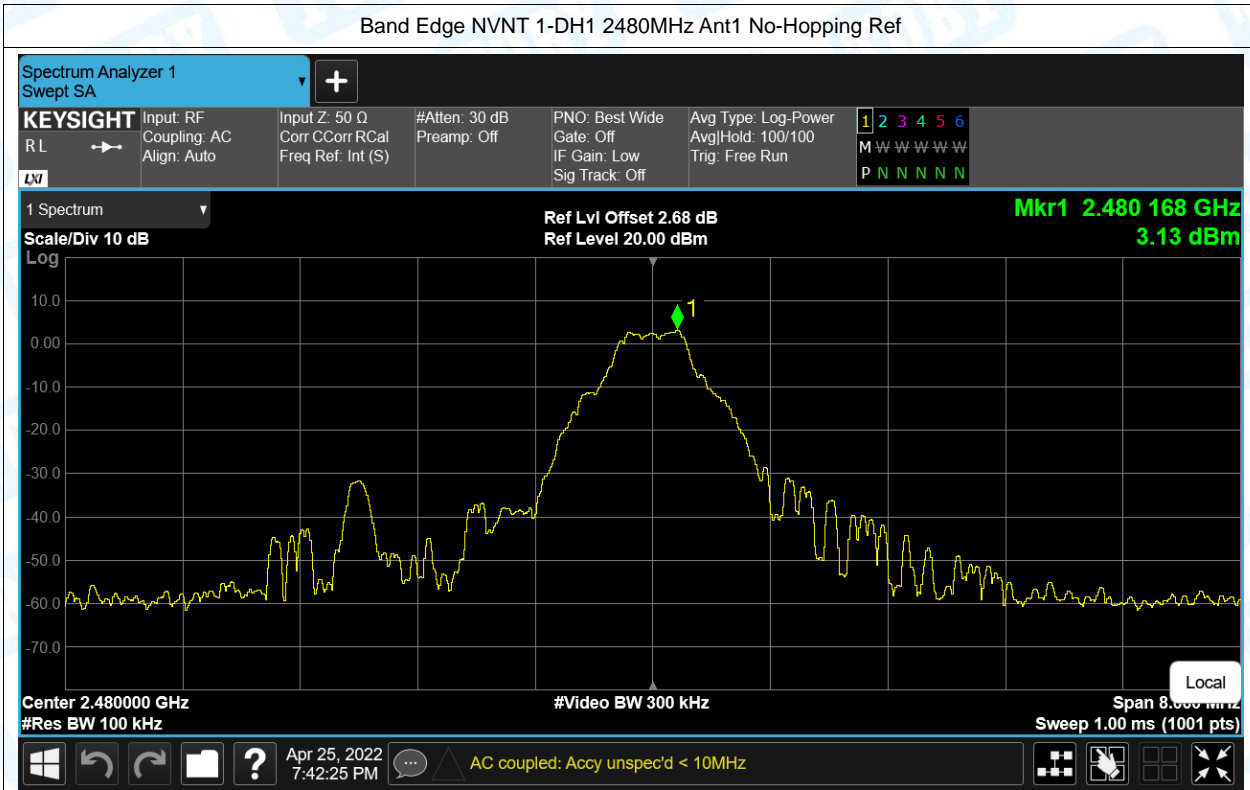
Test Graphs

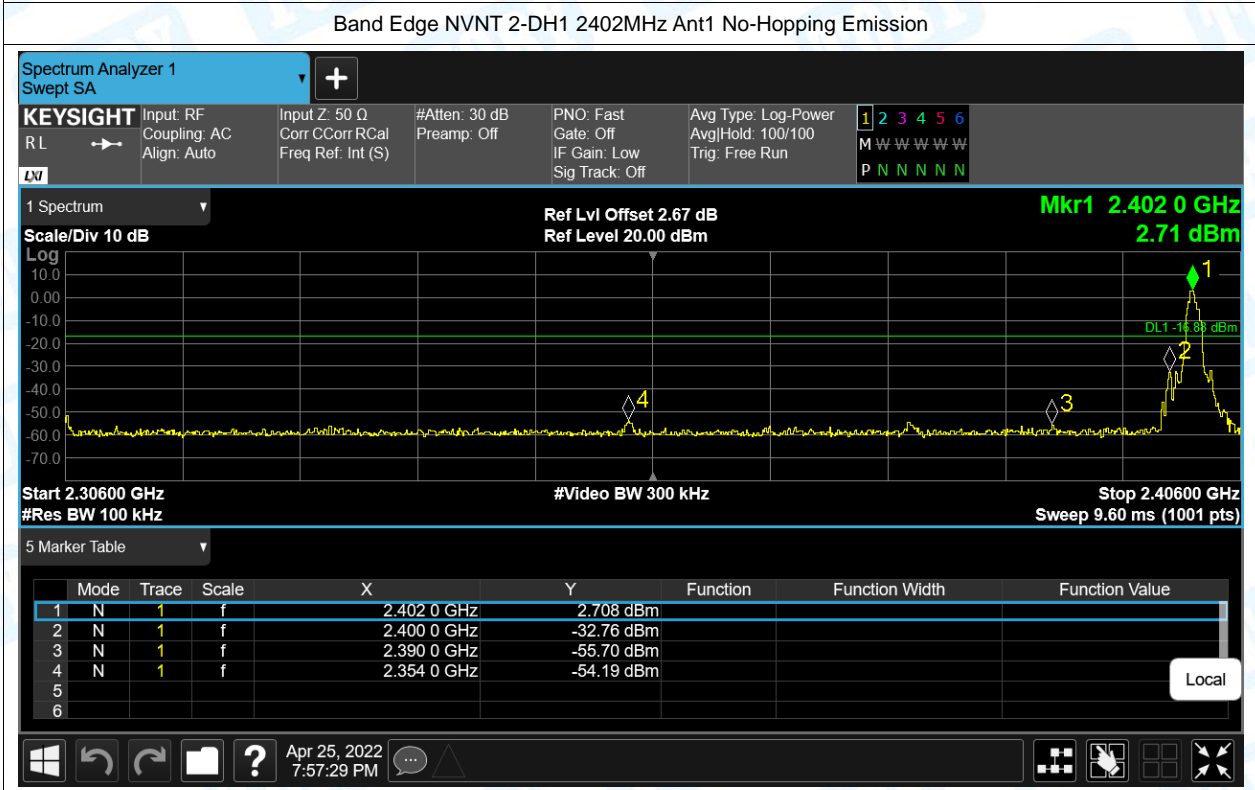
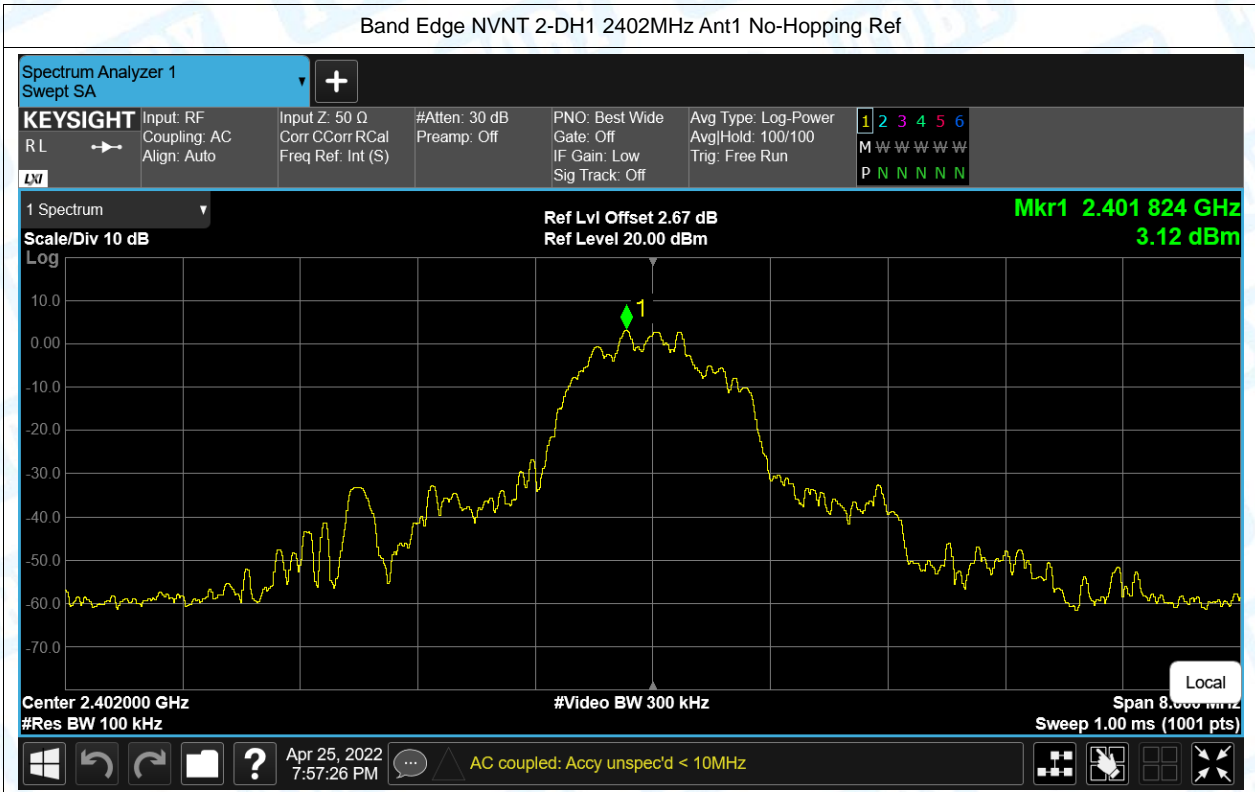
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

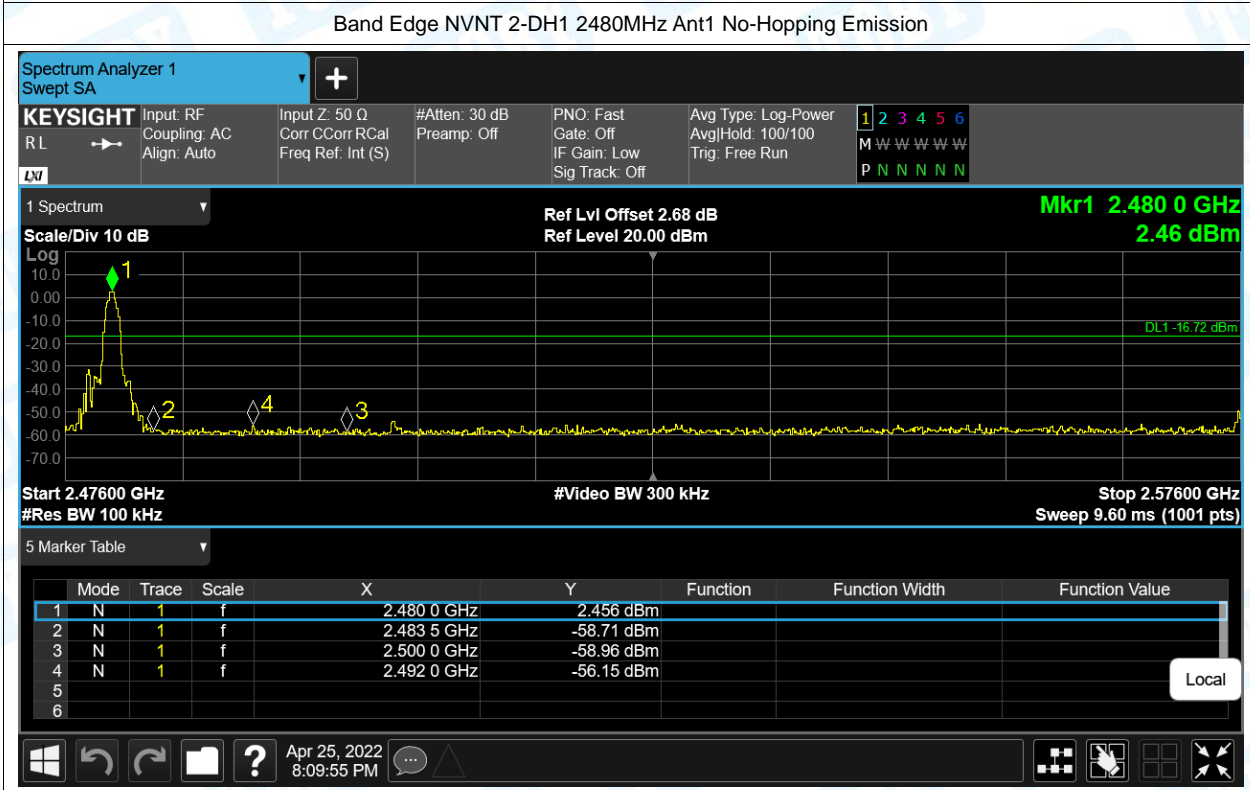
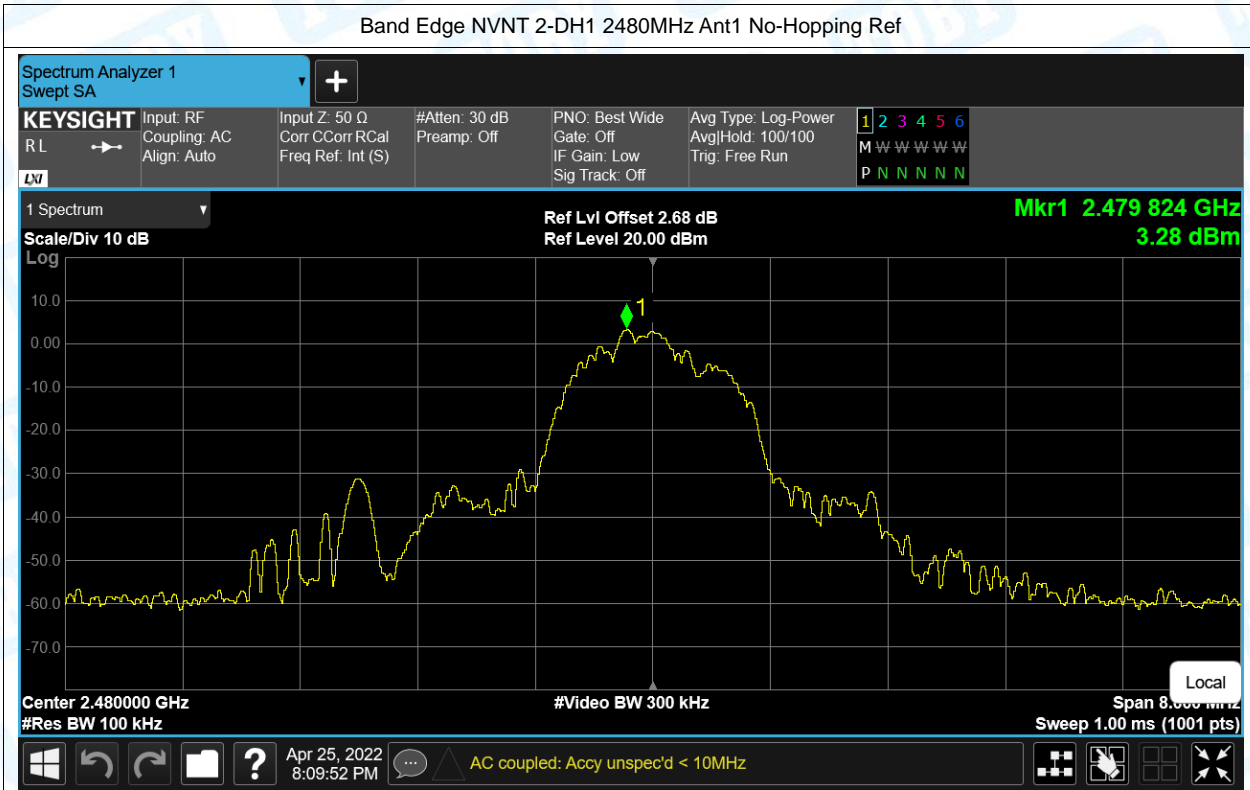


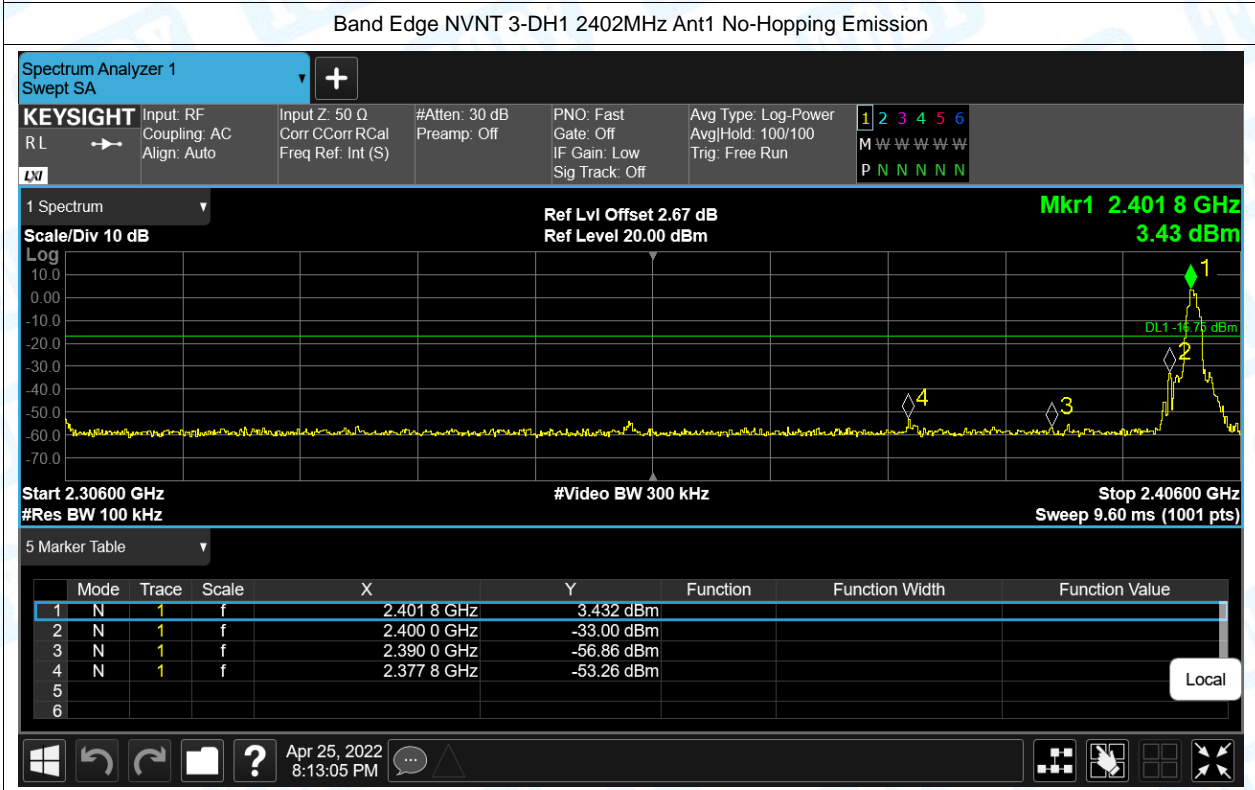
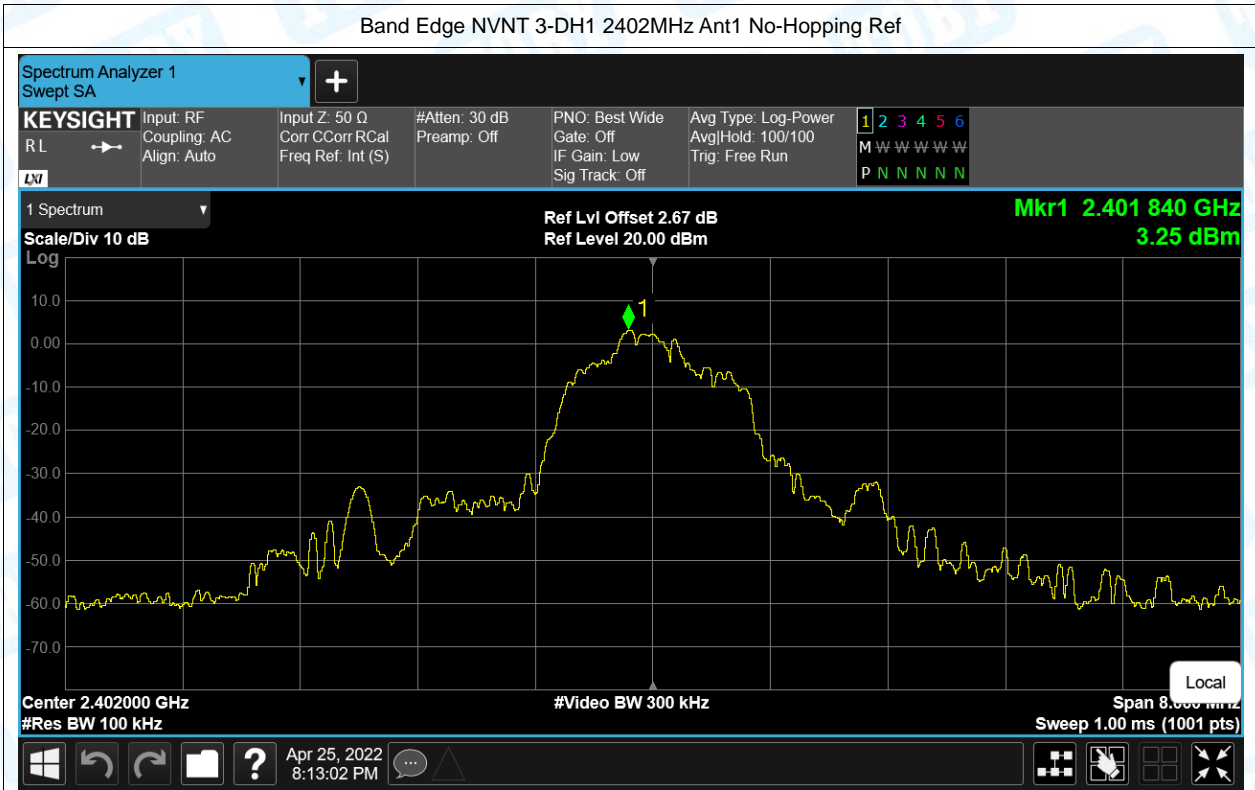
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

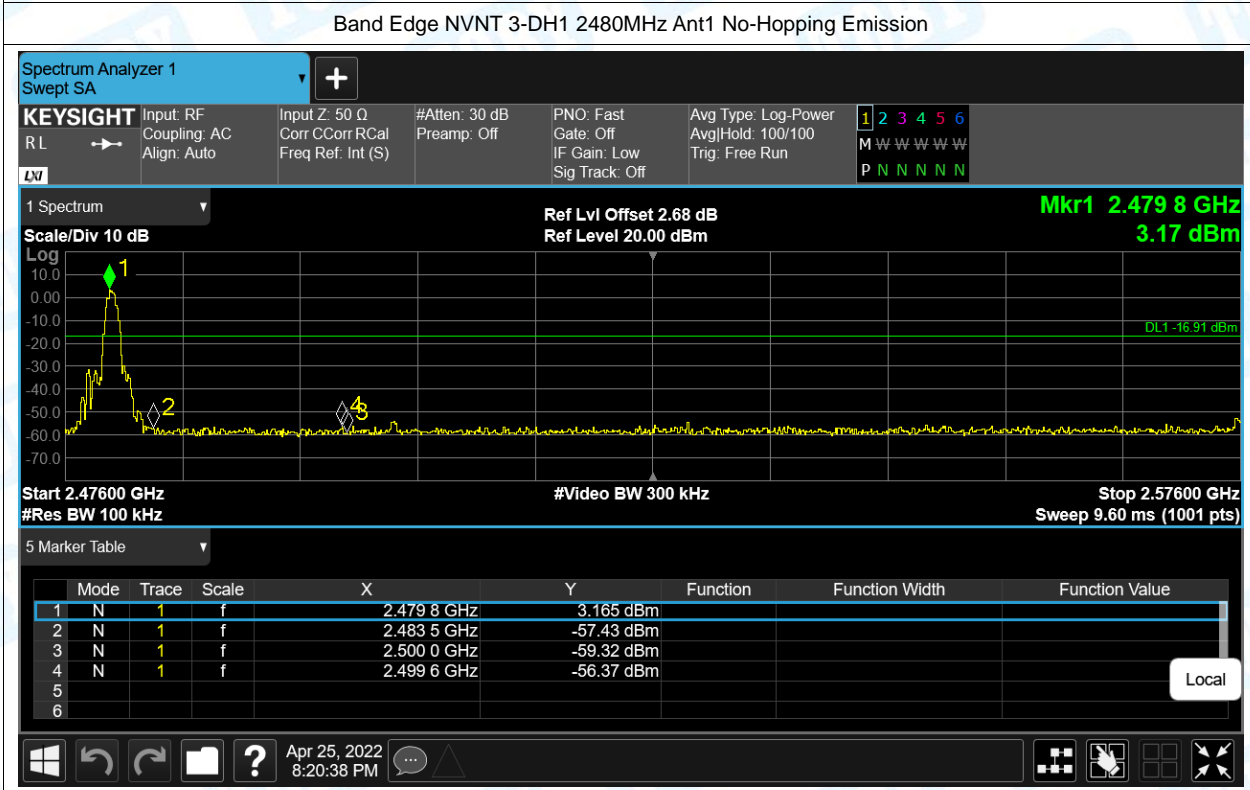
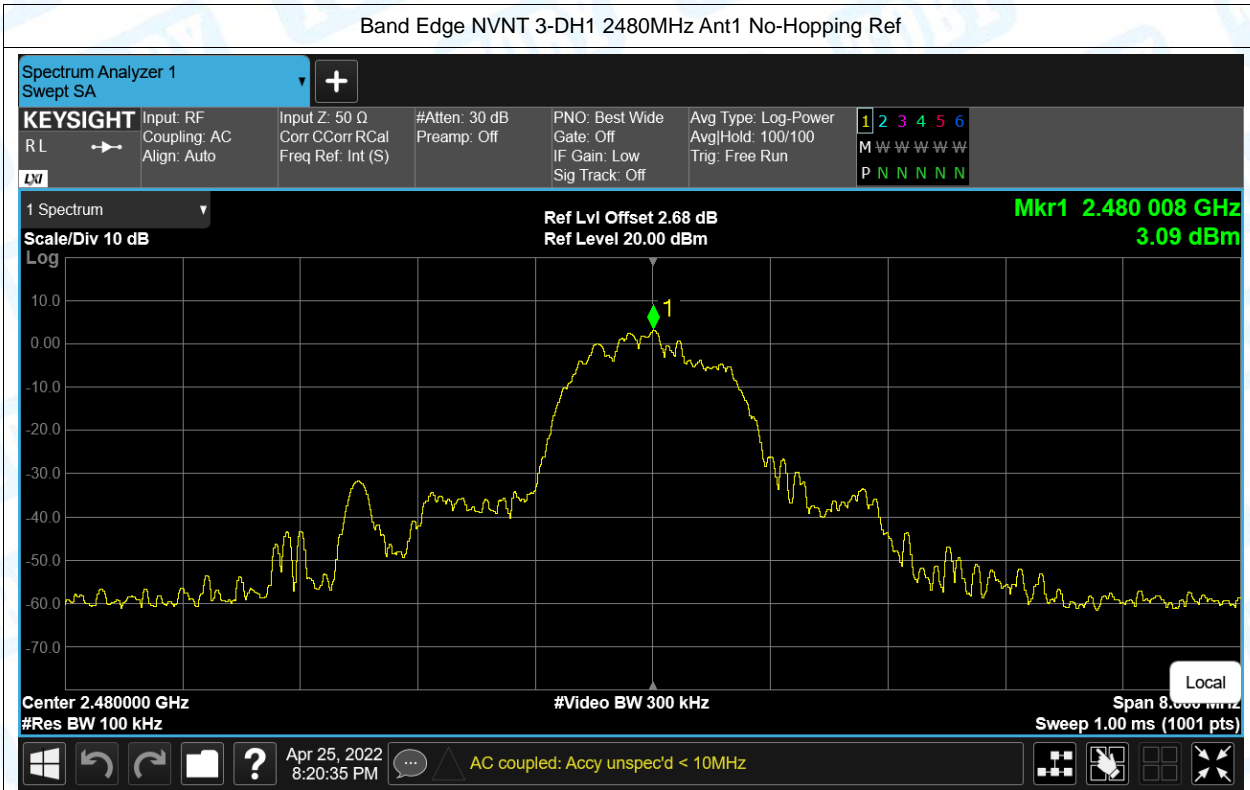










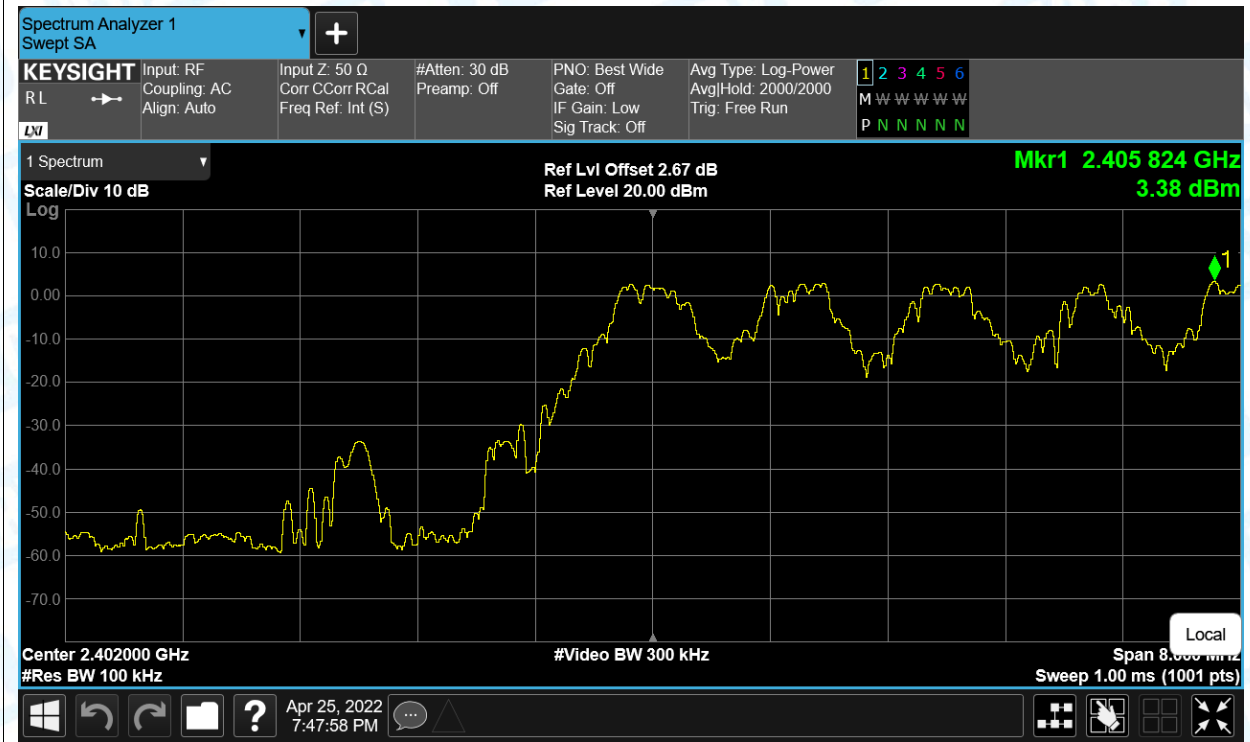


Band Edge(Hopping)

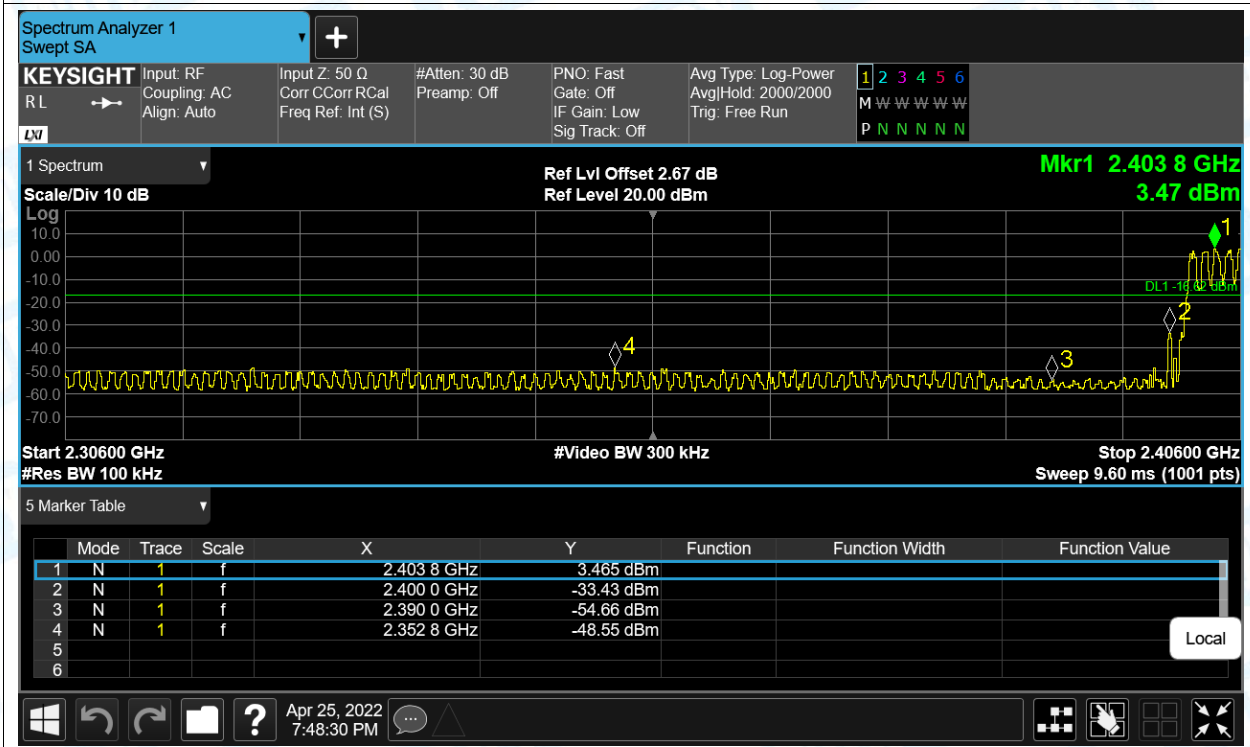
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-51.93	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-50.94	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.35	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-51.45	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-52.47	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-51.01	-20	Pass

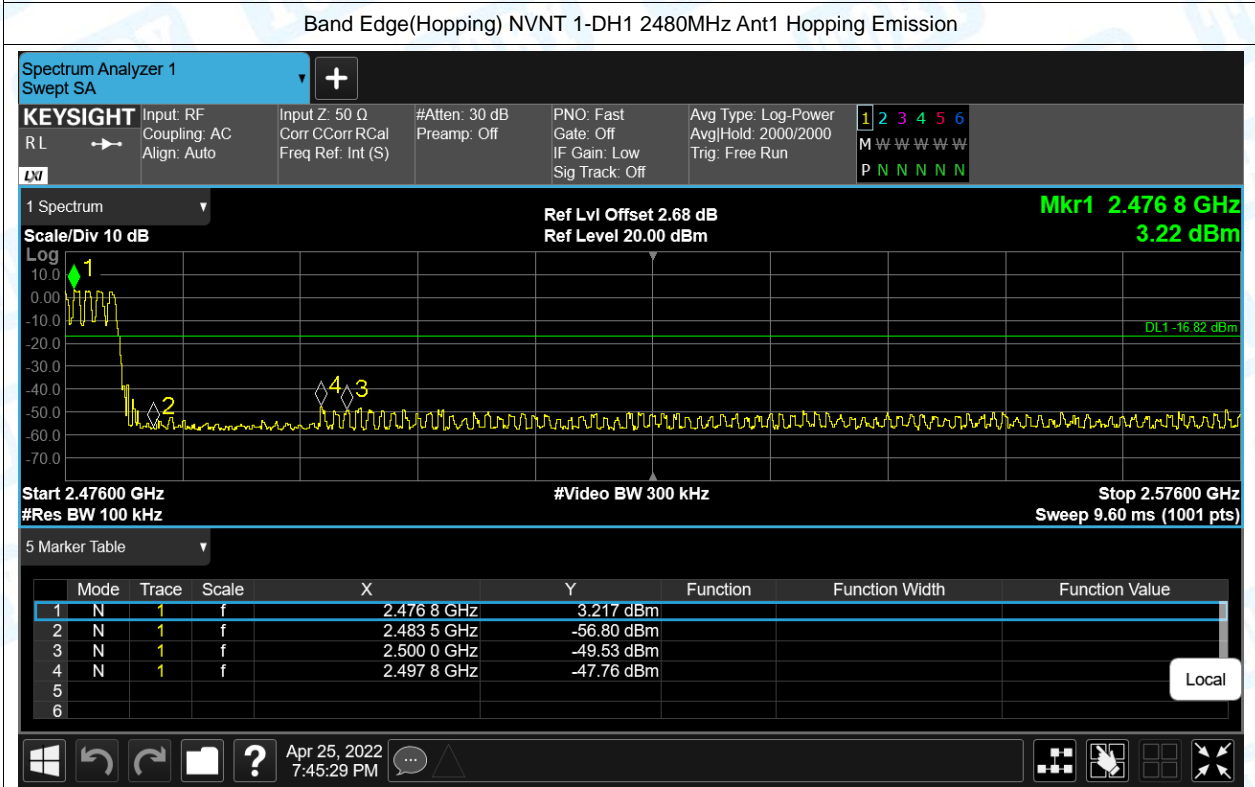
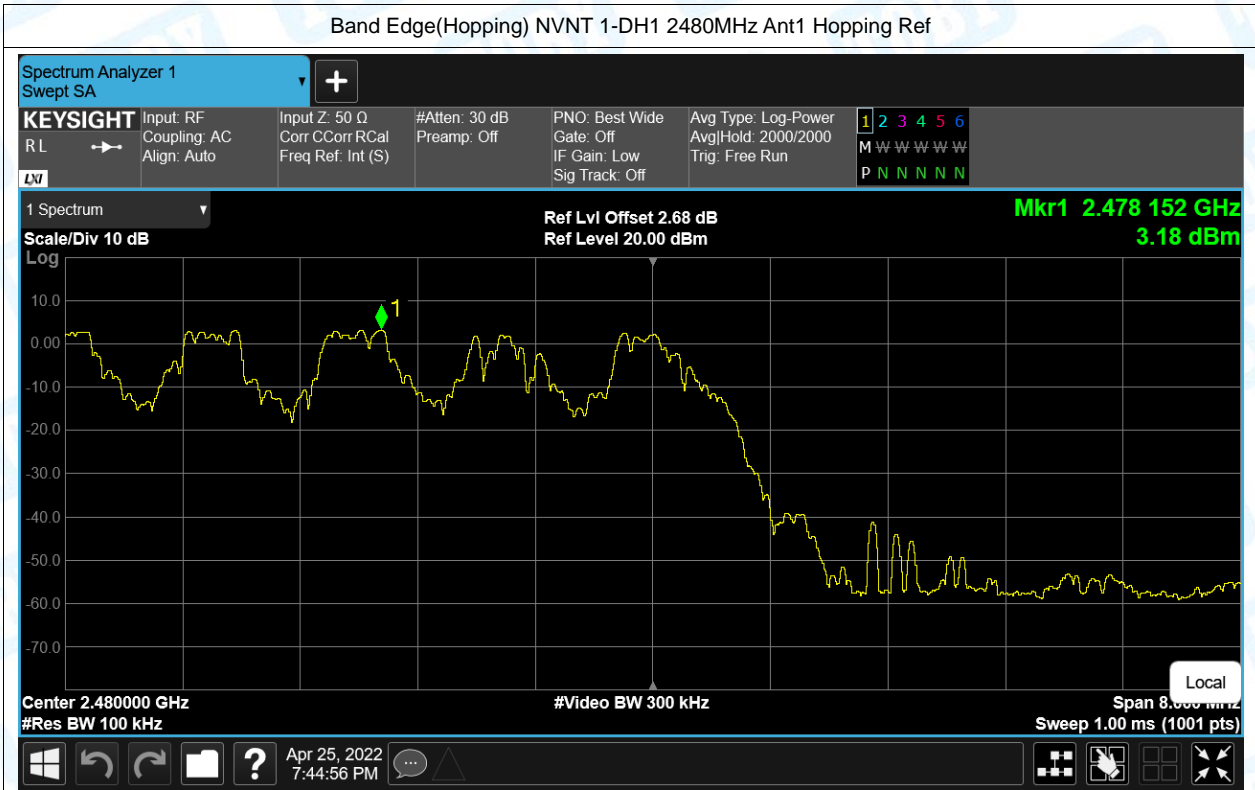
Test Graphs

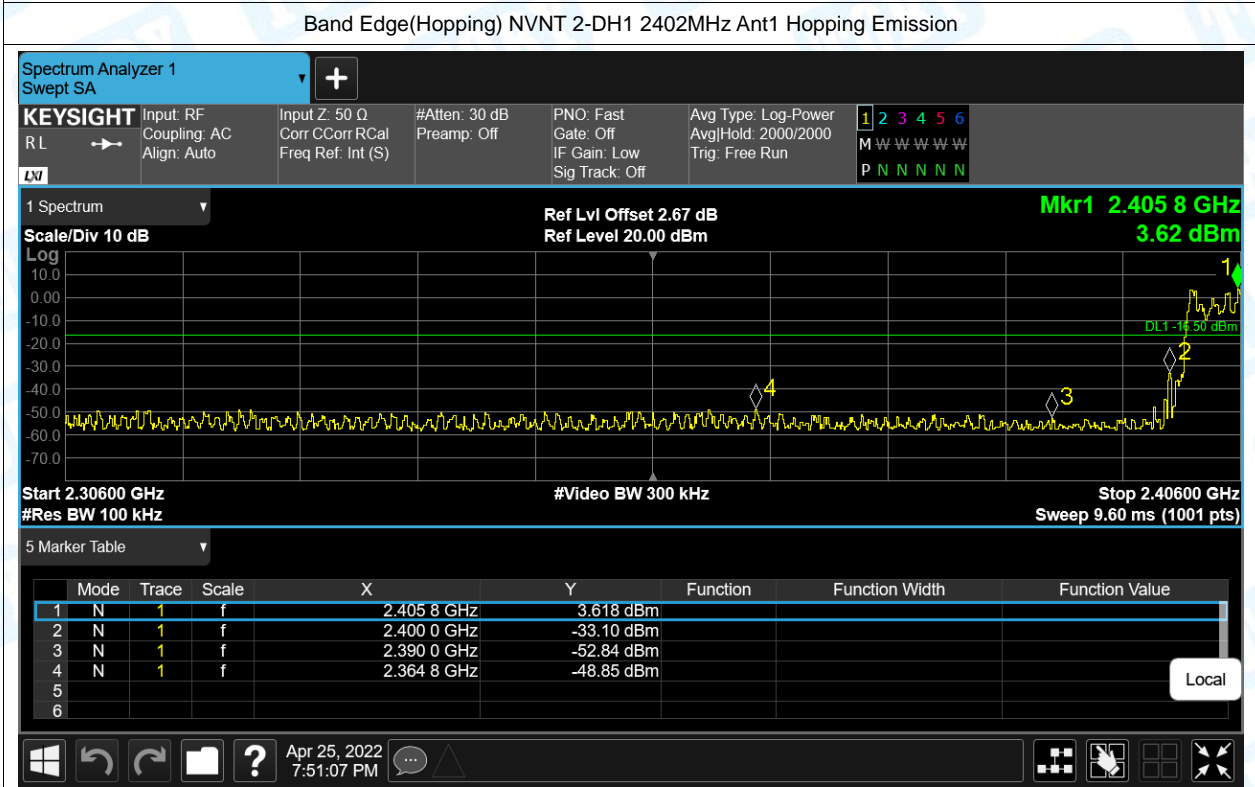
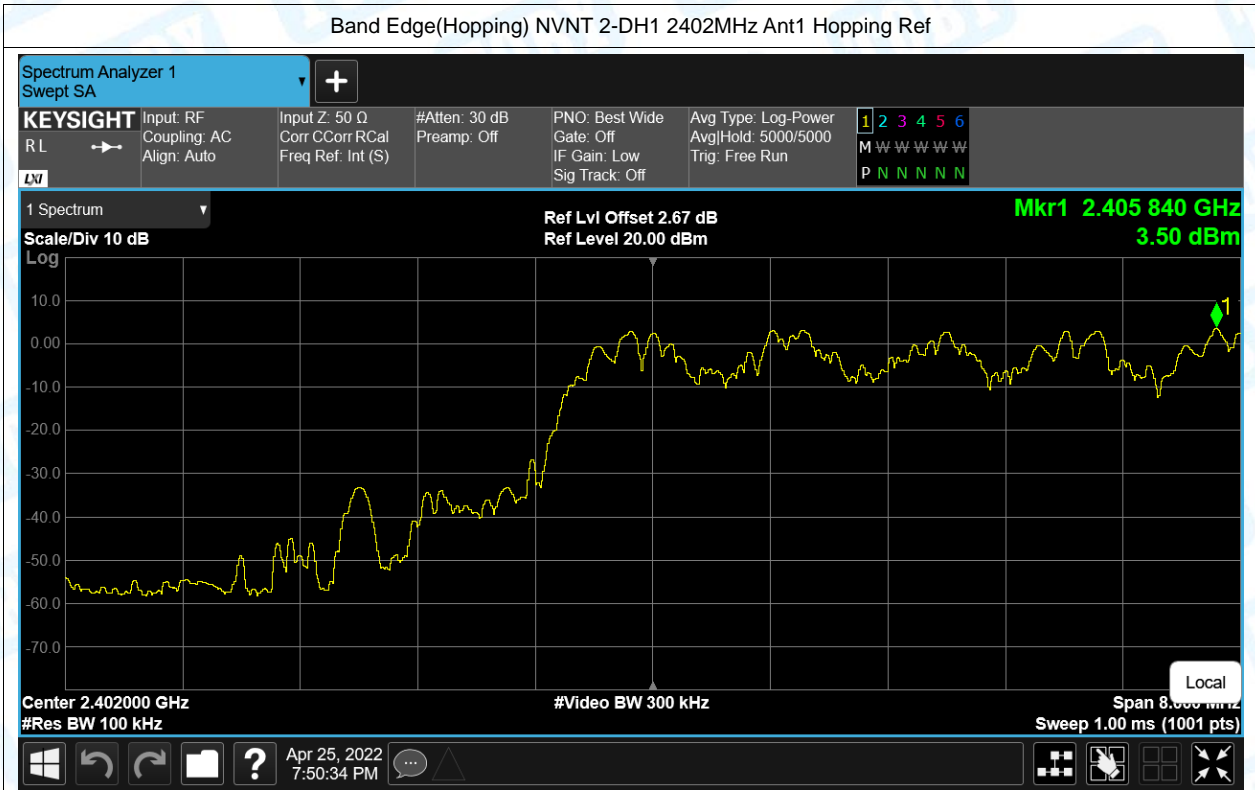
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

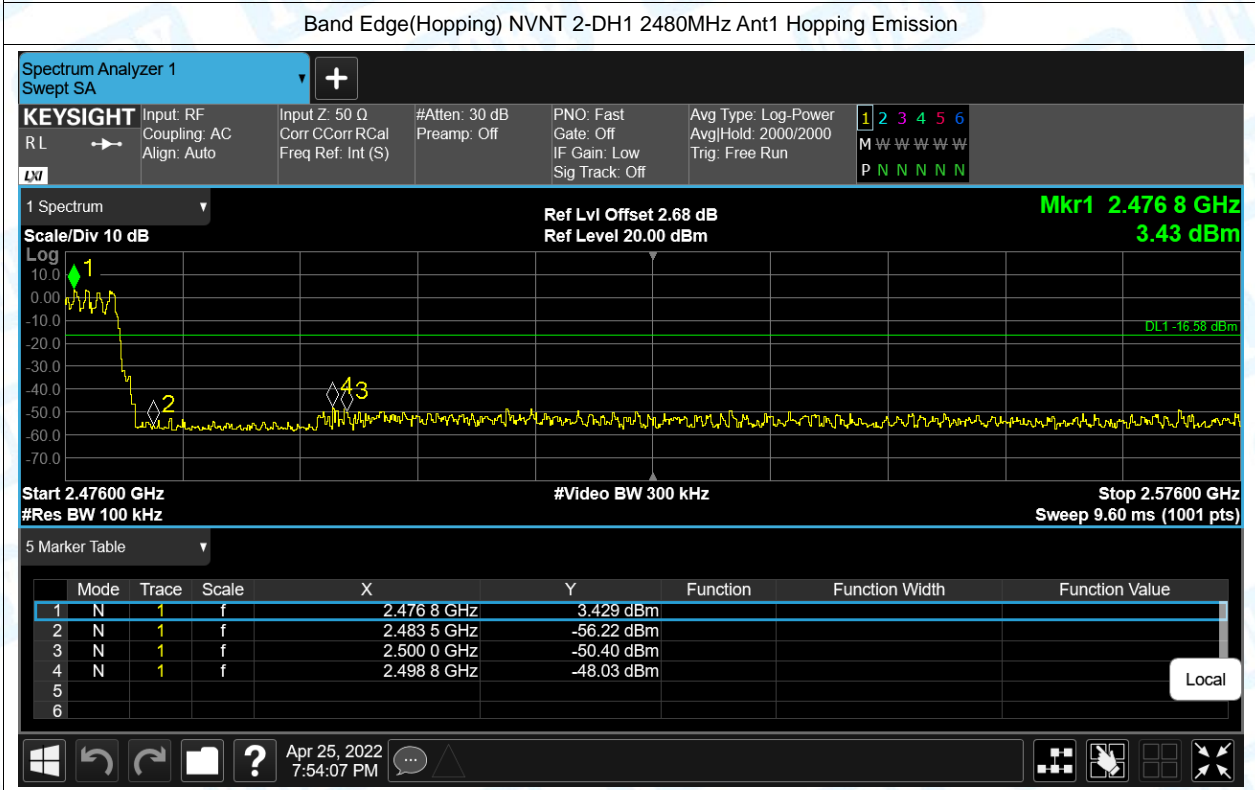
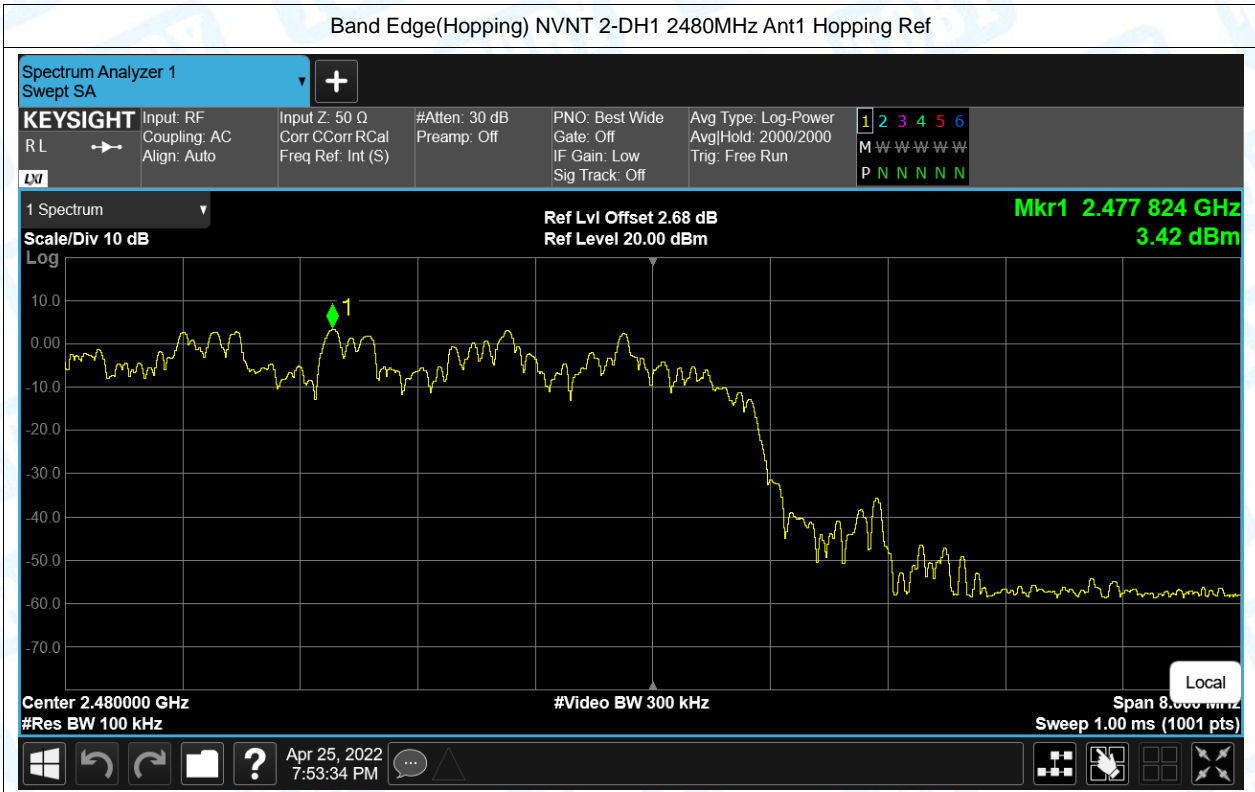


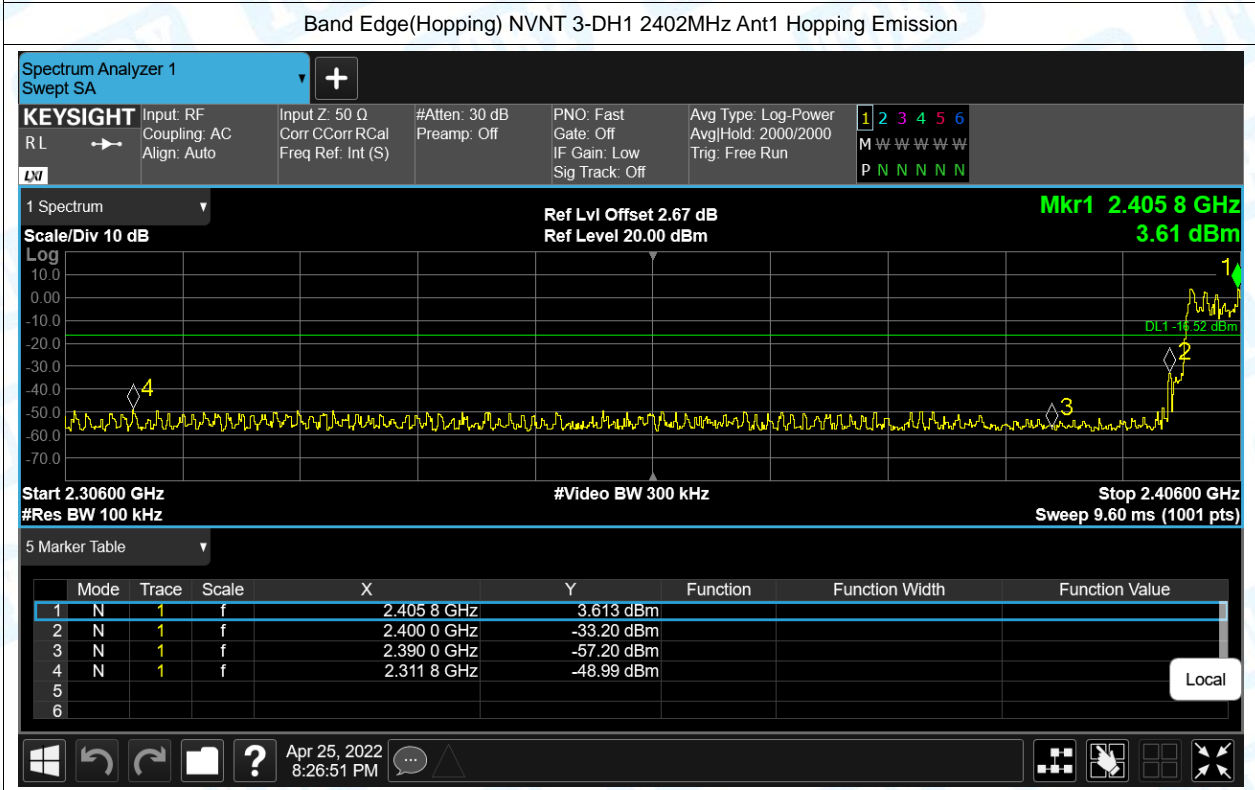
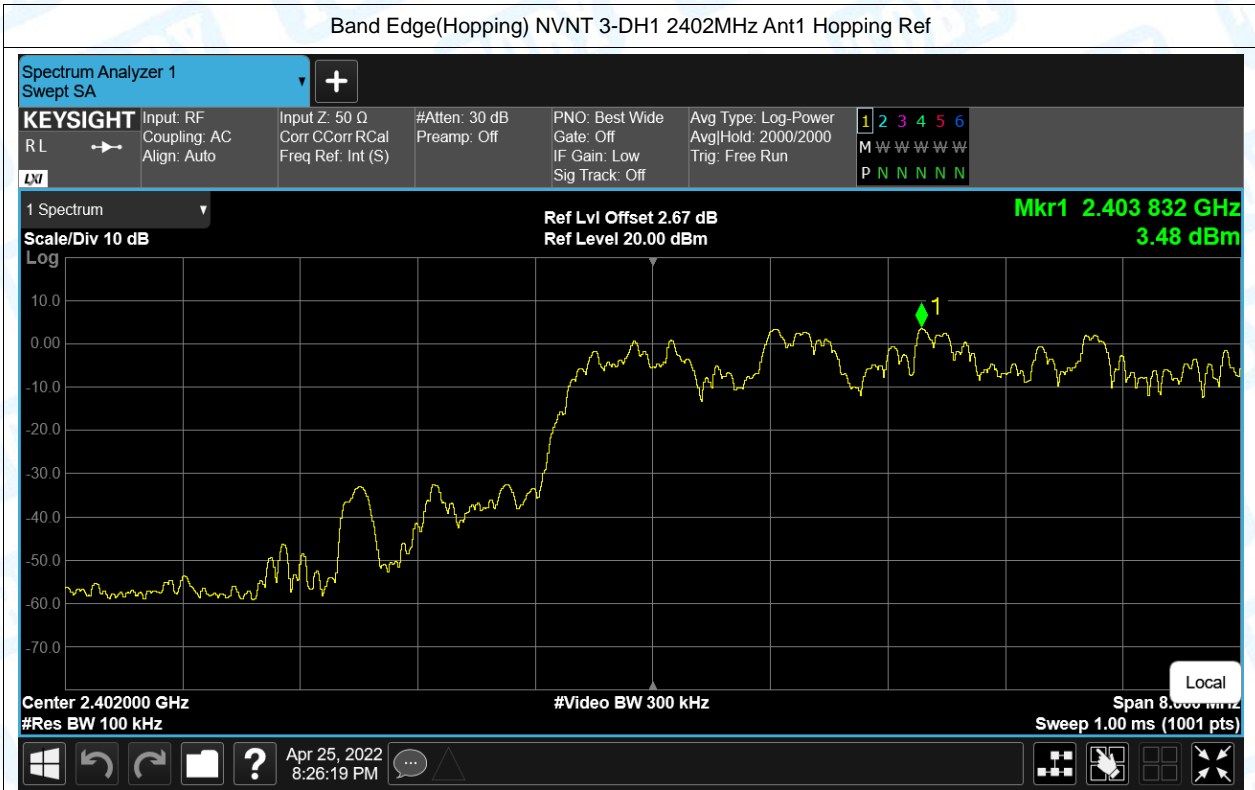
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

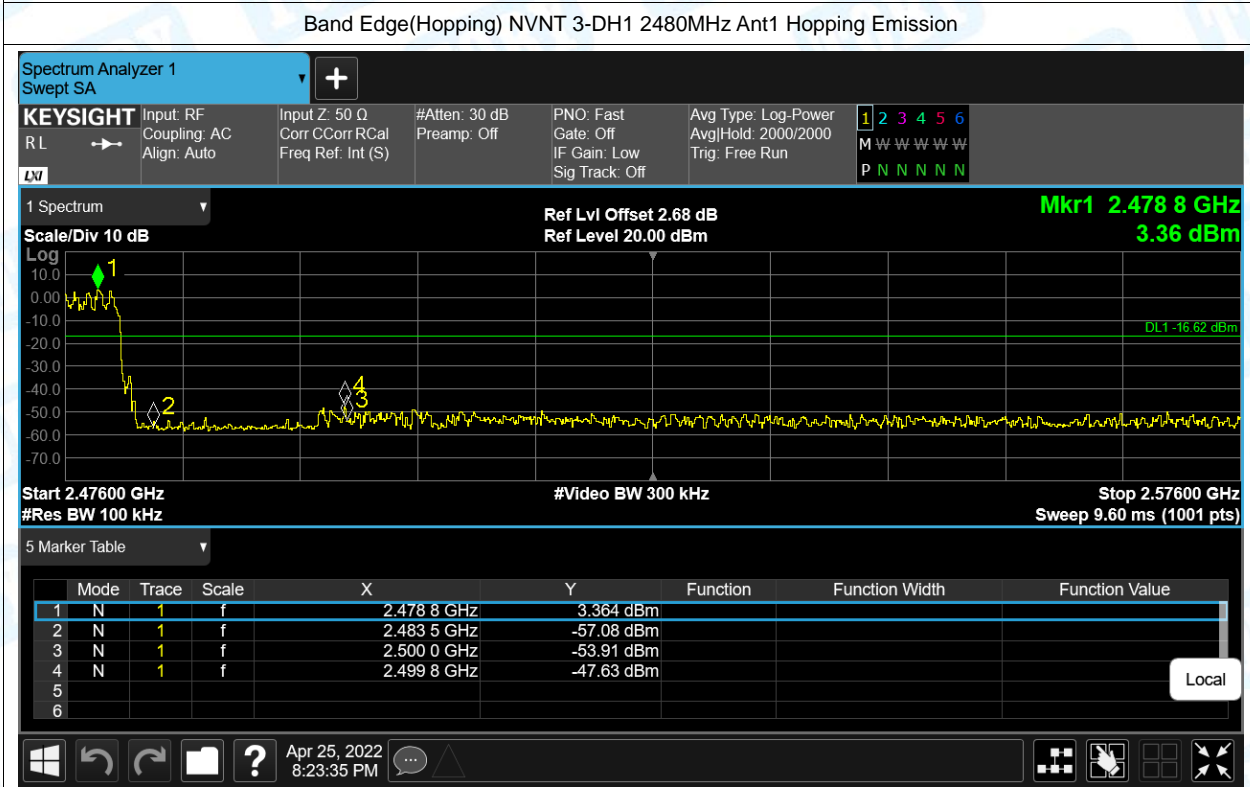
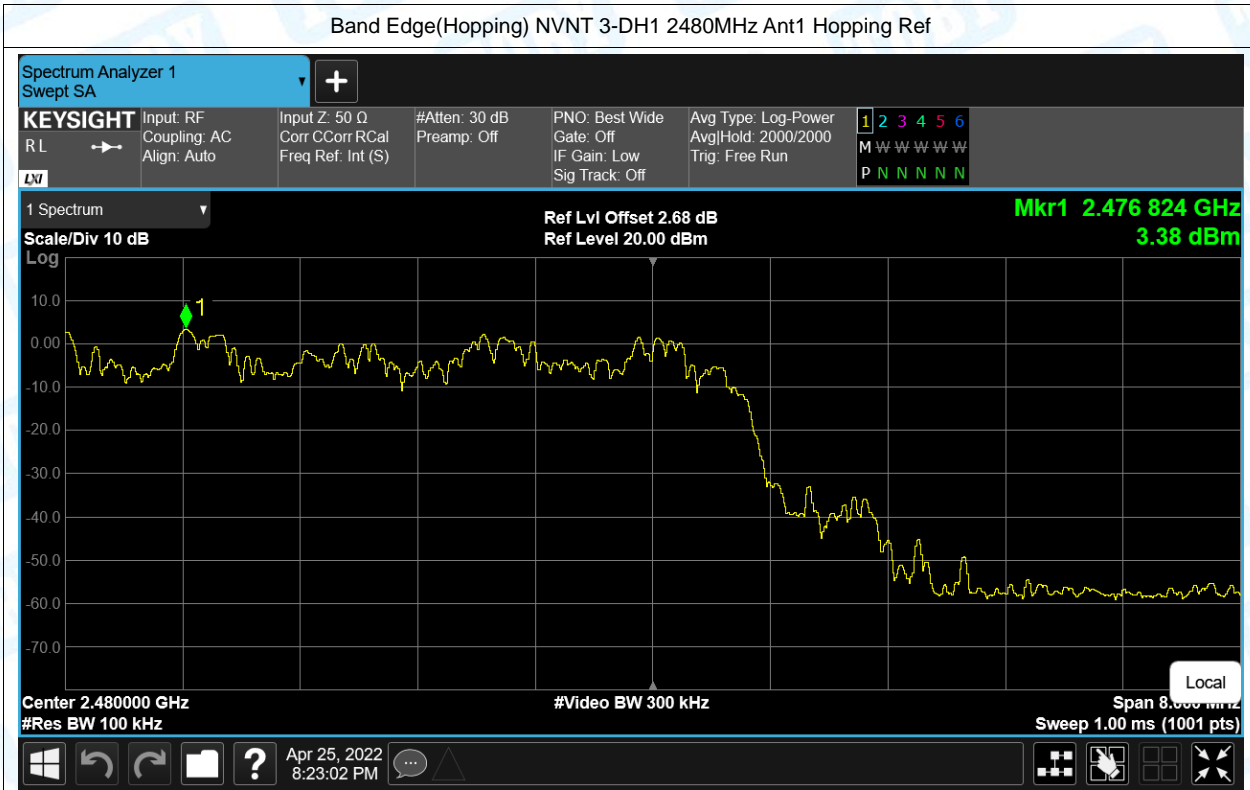










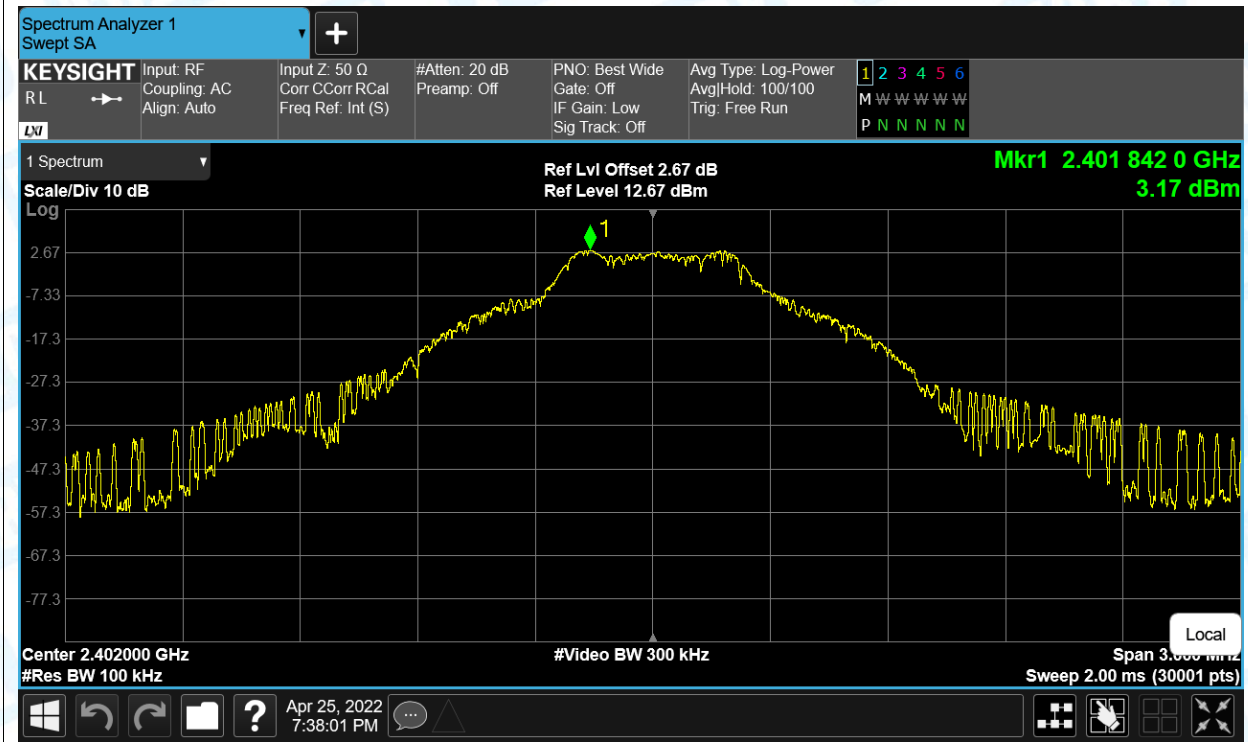


Conducted RF Spurious Emission

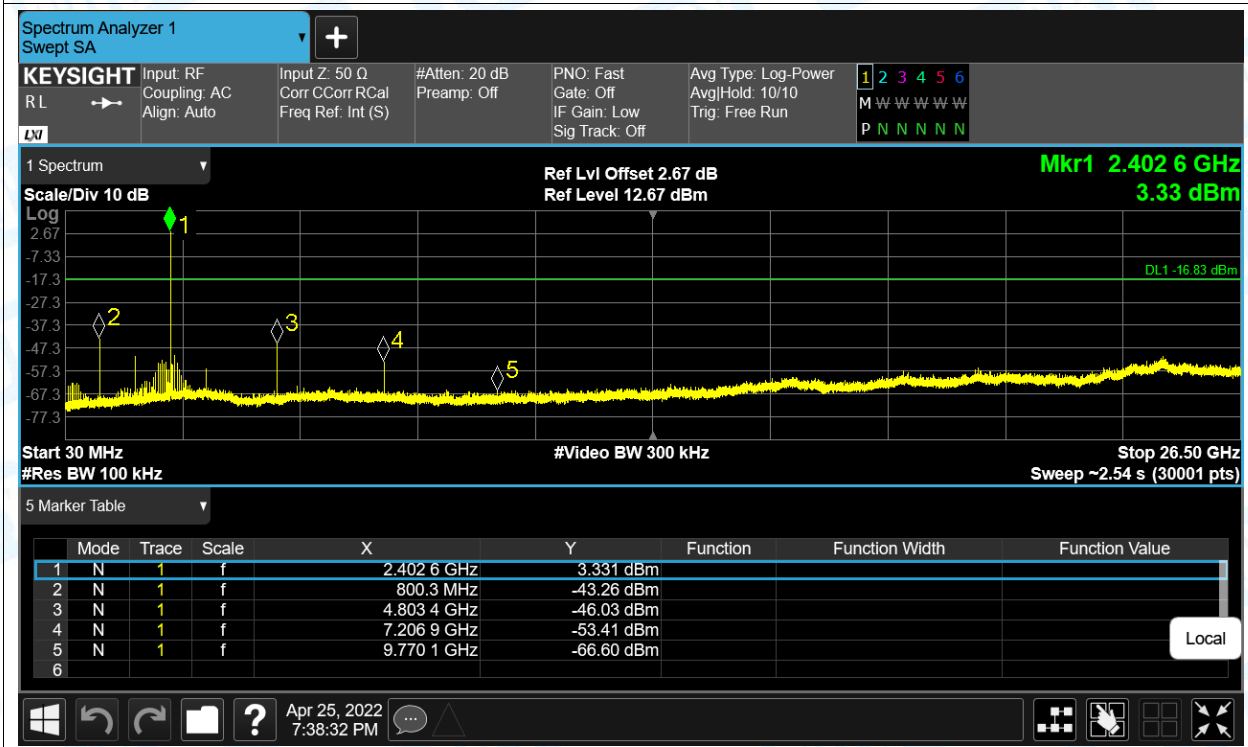
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-46.43	-20	Pass
NVNT	1-DH1	2441	Ant1	-47.8	-20	Pass
NVNT	1-DH1	2480	Ant1	-47.28	-20	Pass
NVNT	2-DH1	2402	Ant1	-48.7	-20	Pass
NVNT	2-DH1	2441	Ant1	-47.65	-20	Pass
NVNT	2-DH1	2480	Ant1	-49.27	-20	Pass
NVNT	3-DH1	2402	Ant1	-47.1	-20	Pass
NVNT	3-DH1	2441	Ant1	-51.52	-20	Pass
NVNT	3-DH1	2480	Ant1	-47.66	-20	Pass

Test Graphs

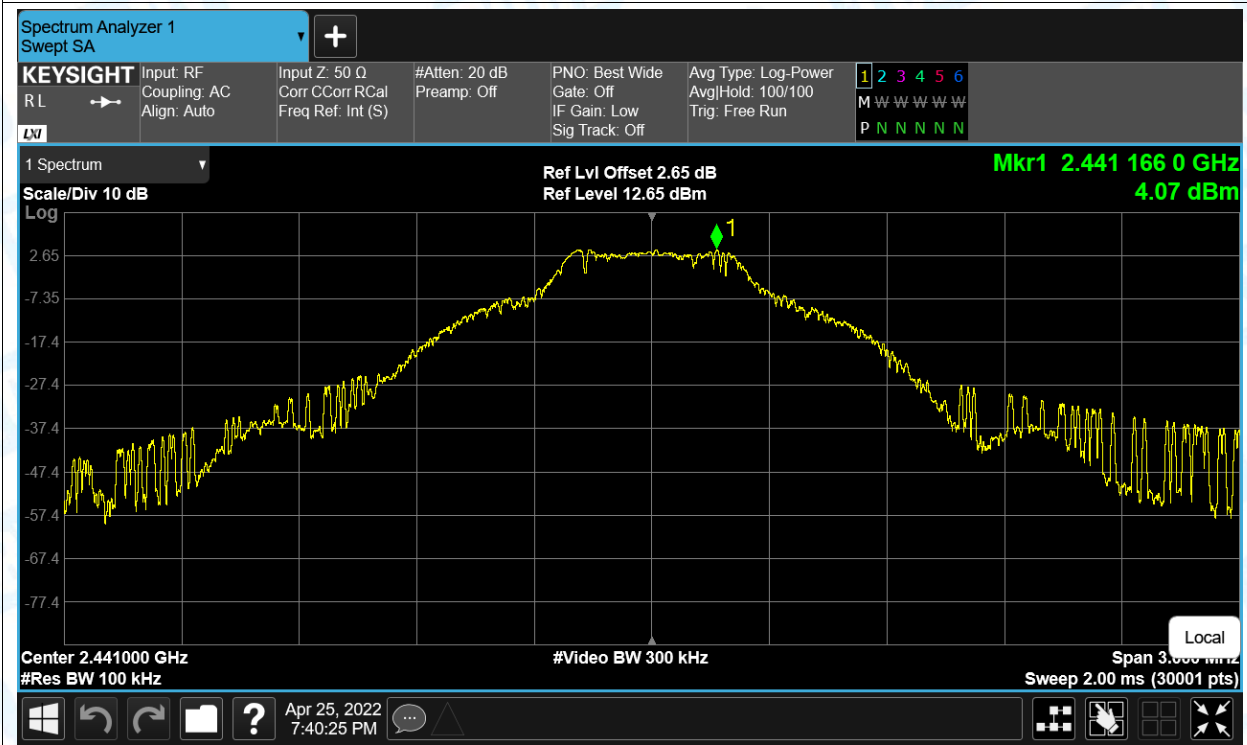
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission

