

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

General Description of EUT	
Product Name:	INTERACTIVE PUNCHBAG
Test Model:	RCIP1
Sample ID:	202211-0034-6-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 4.5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0034-10	

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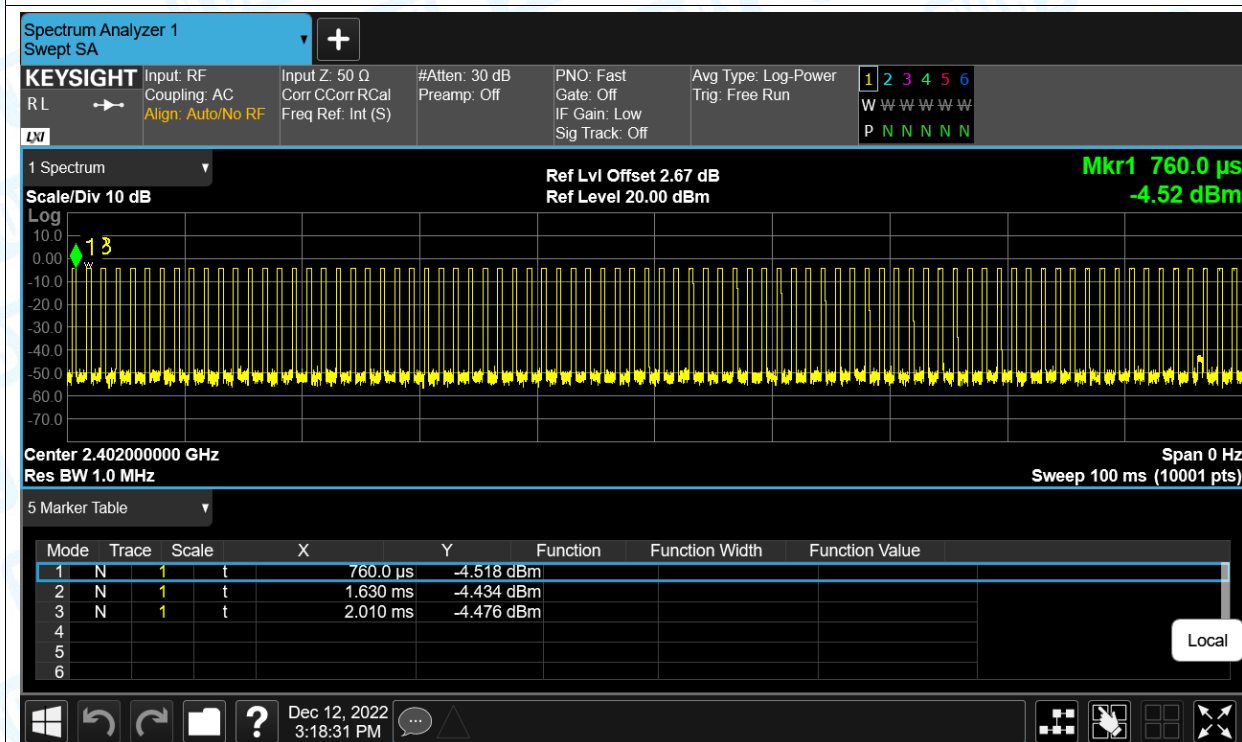
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1. Duty Cycle

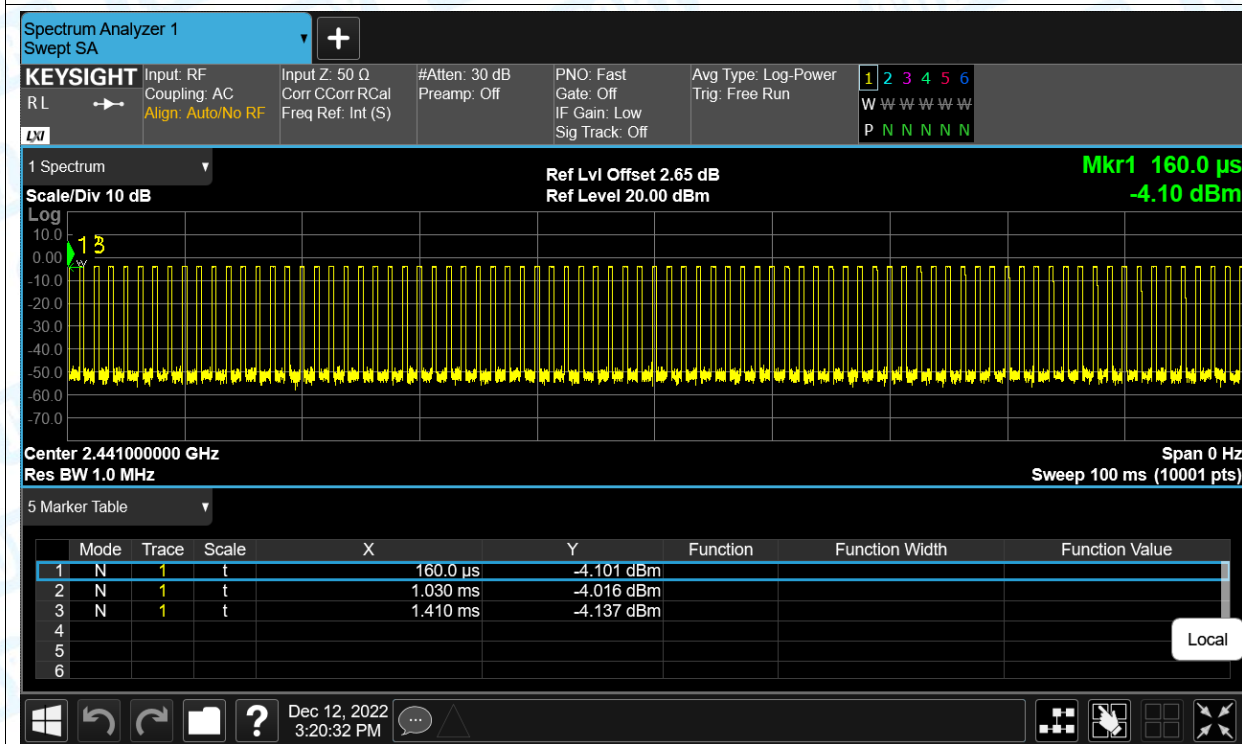
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

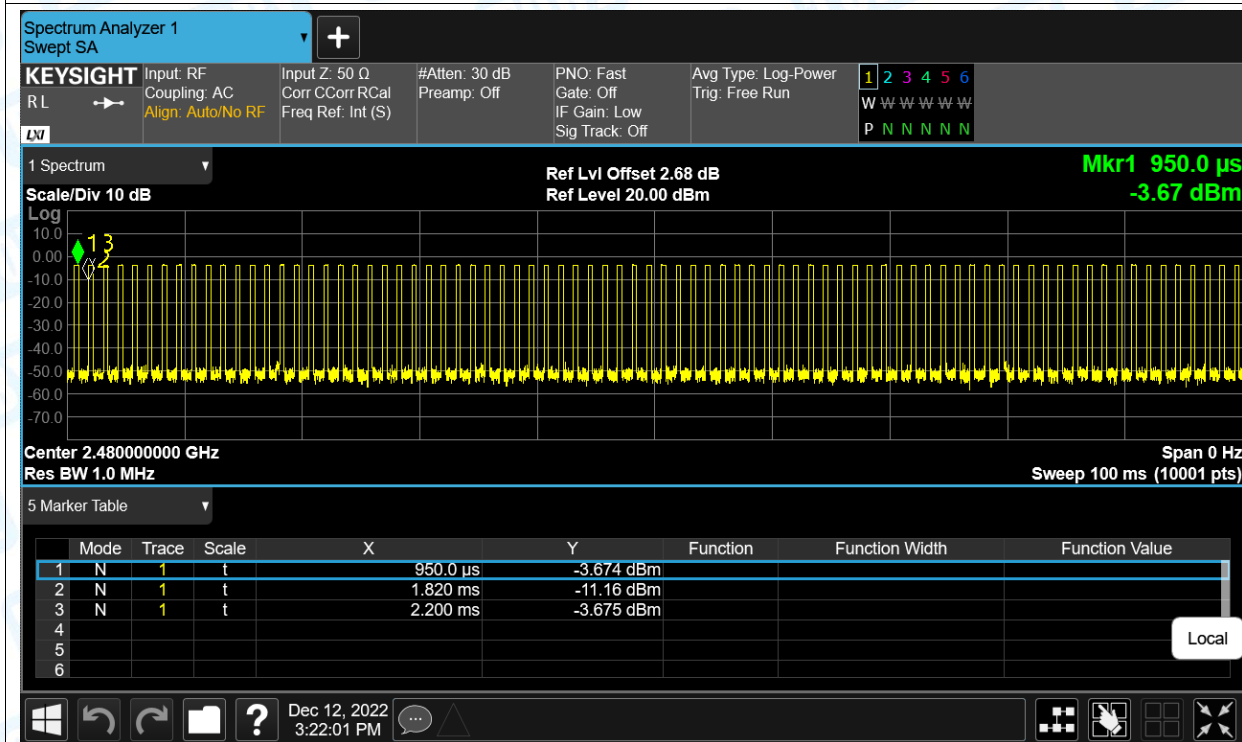
Duty Cycle NVNT 1-DH1 2402MHz Ant1



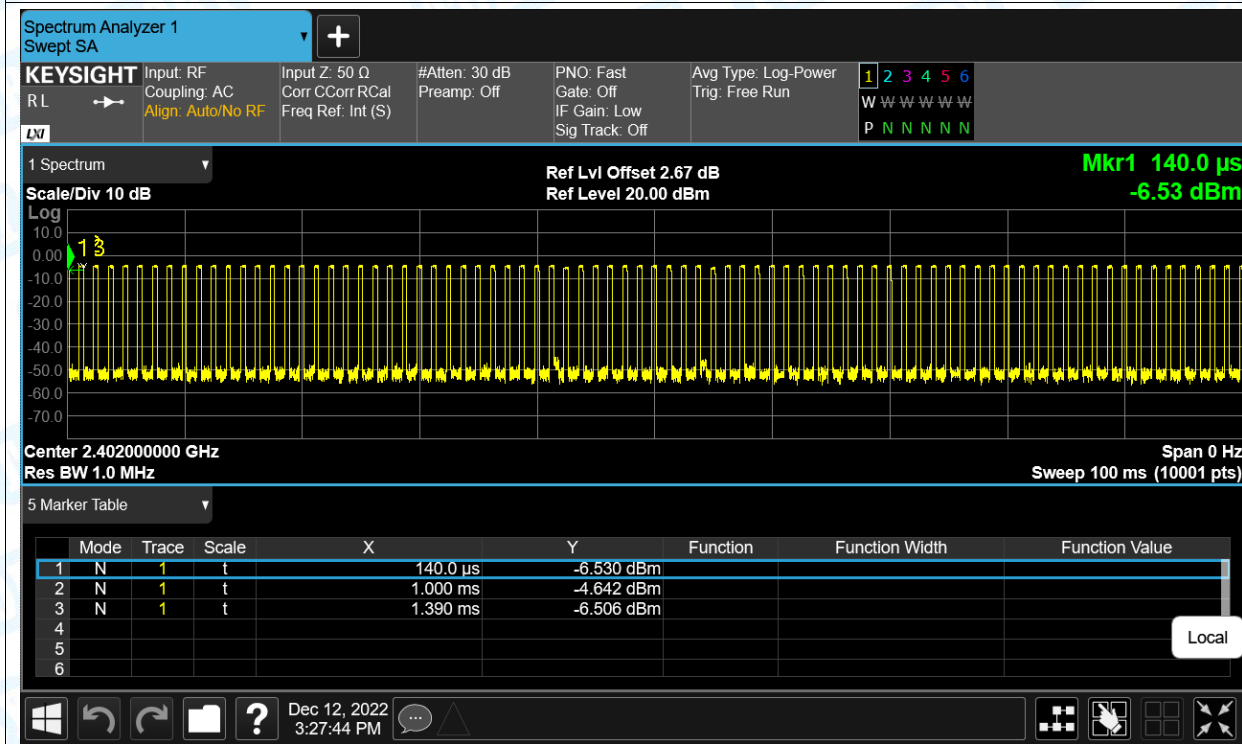
Duty Cycle NVNT 1-DH1 2441MHz Ant1



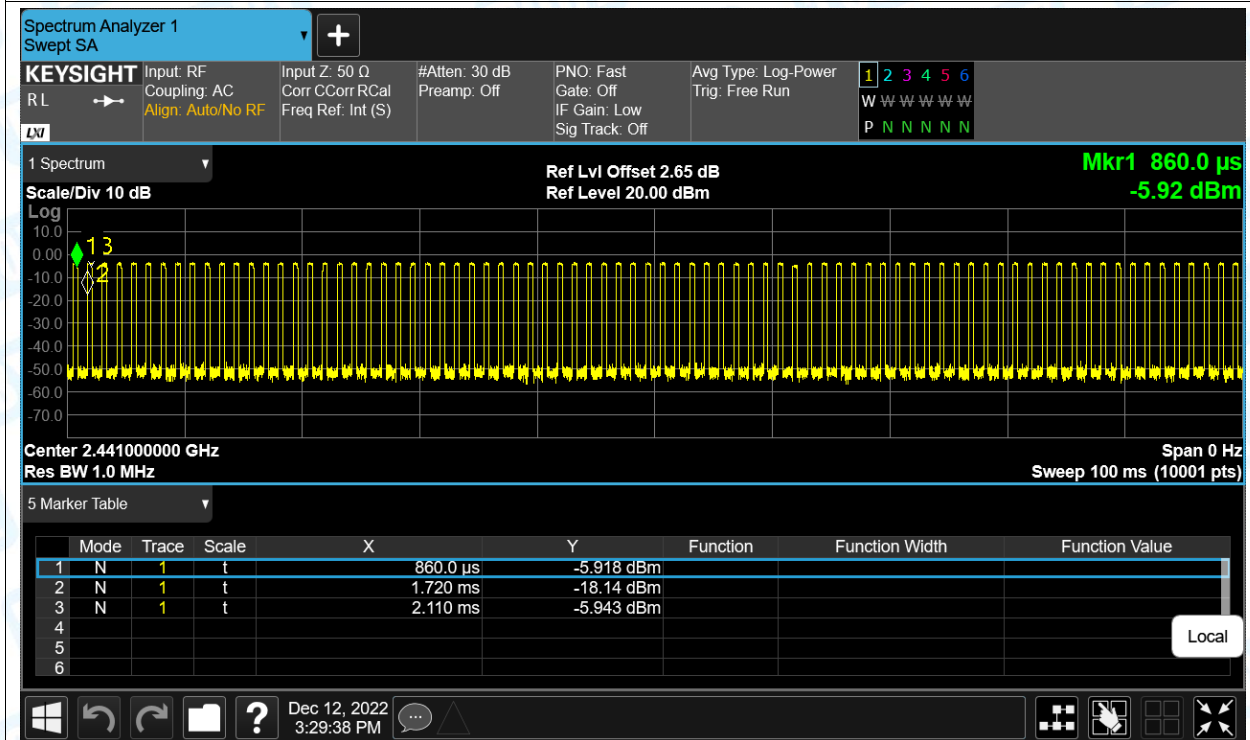
Duty Cycle NVNT 1-DH1 2480MHz Ant1



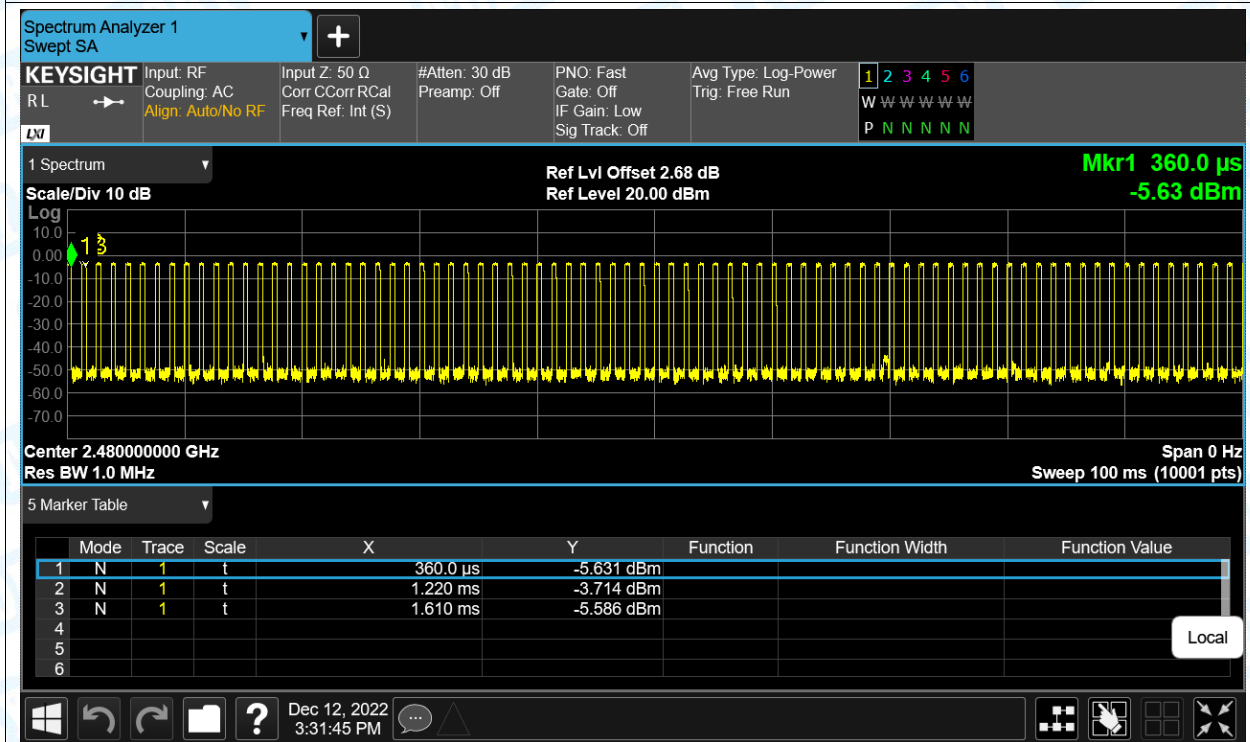
Duty Cycle NVNT 2-DH1 2402MHz Ant1



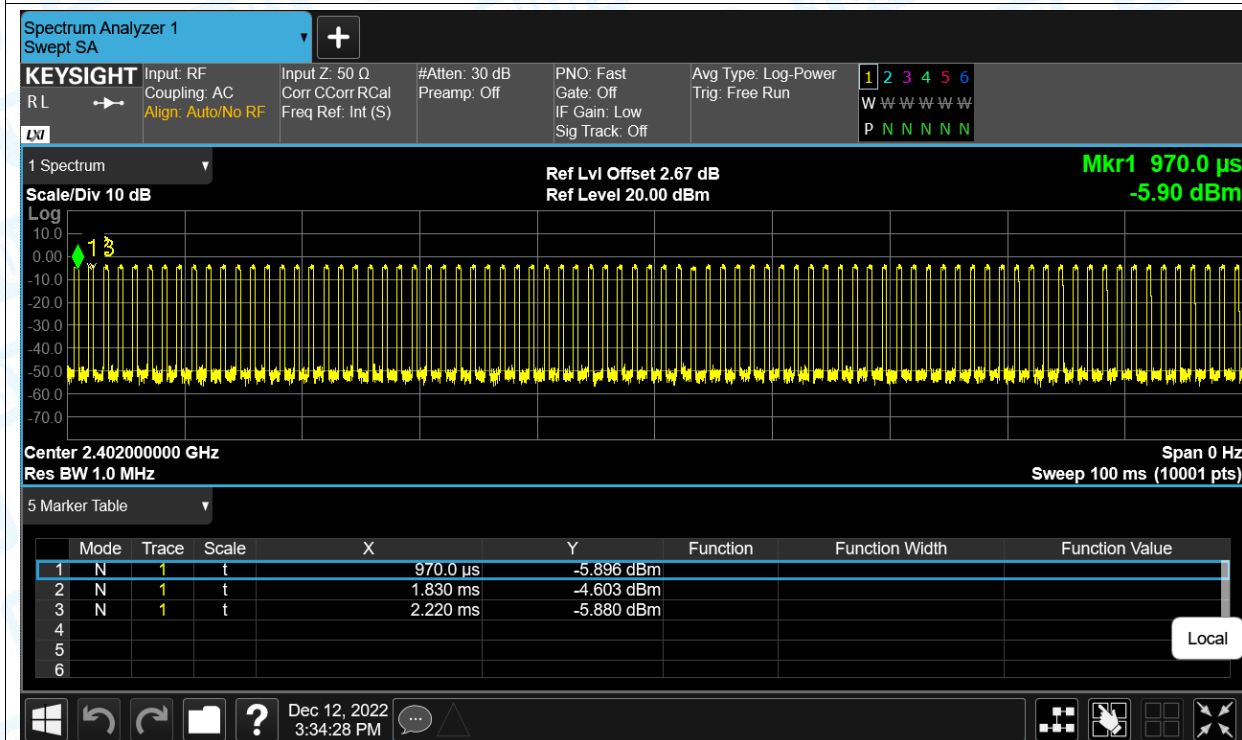
Duty Cycle NVNT 2-DH1 2441MHz Ant1



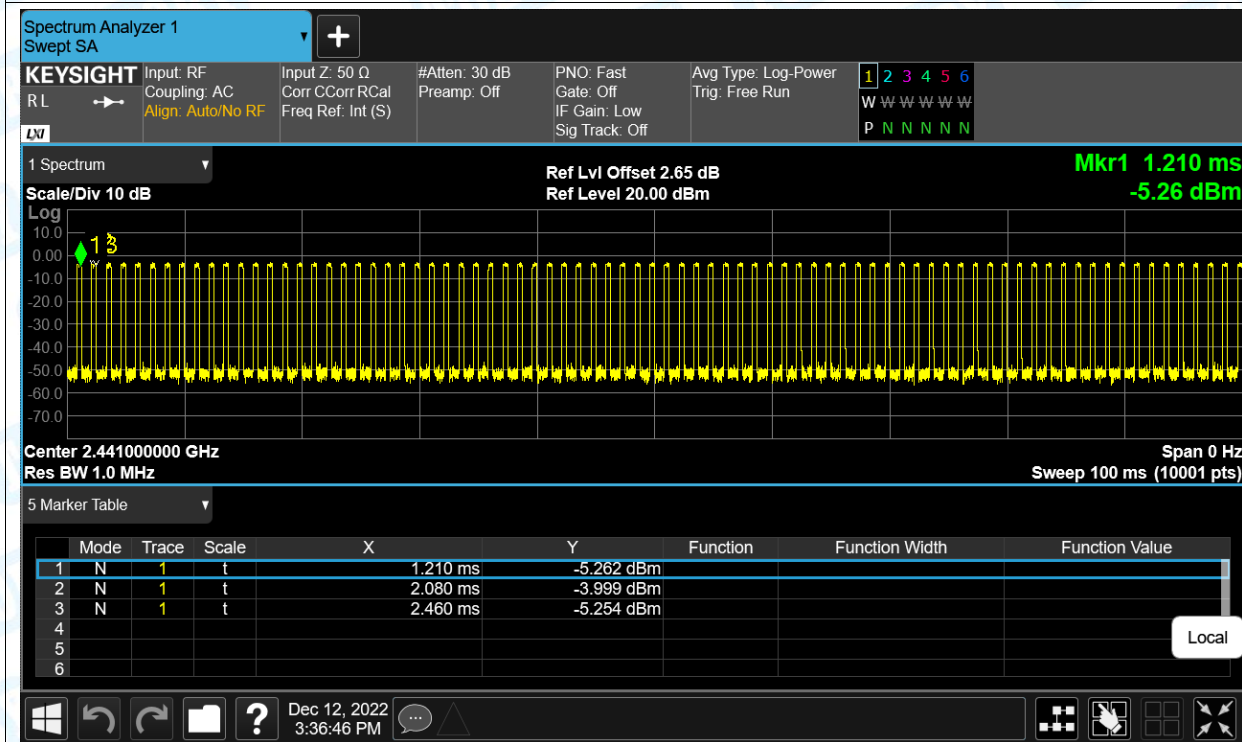
Duty Cycle NVNT 2-DH1 2480MHz Ant1

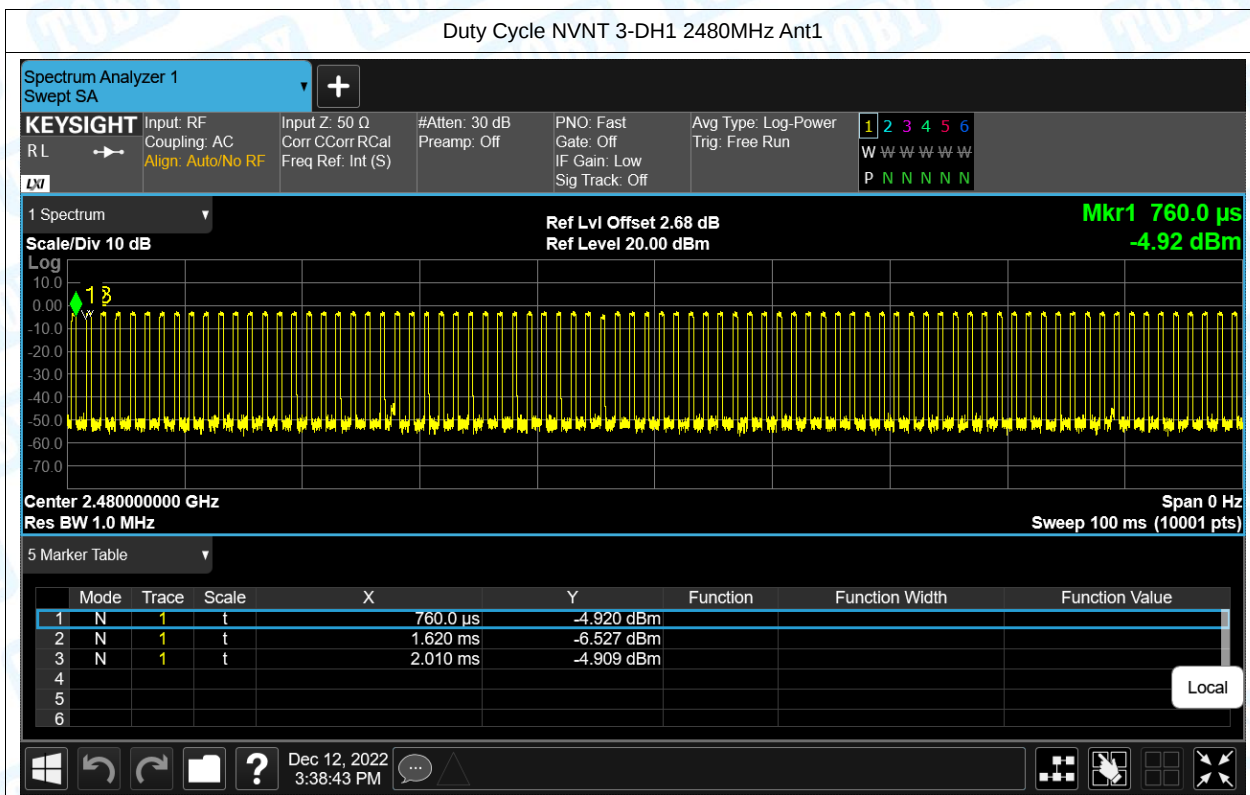


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



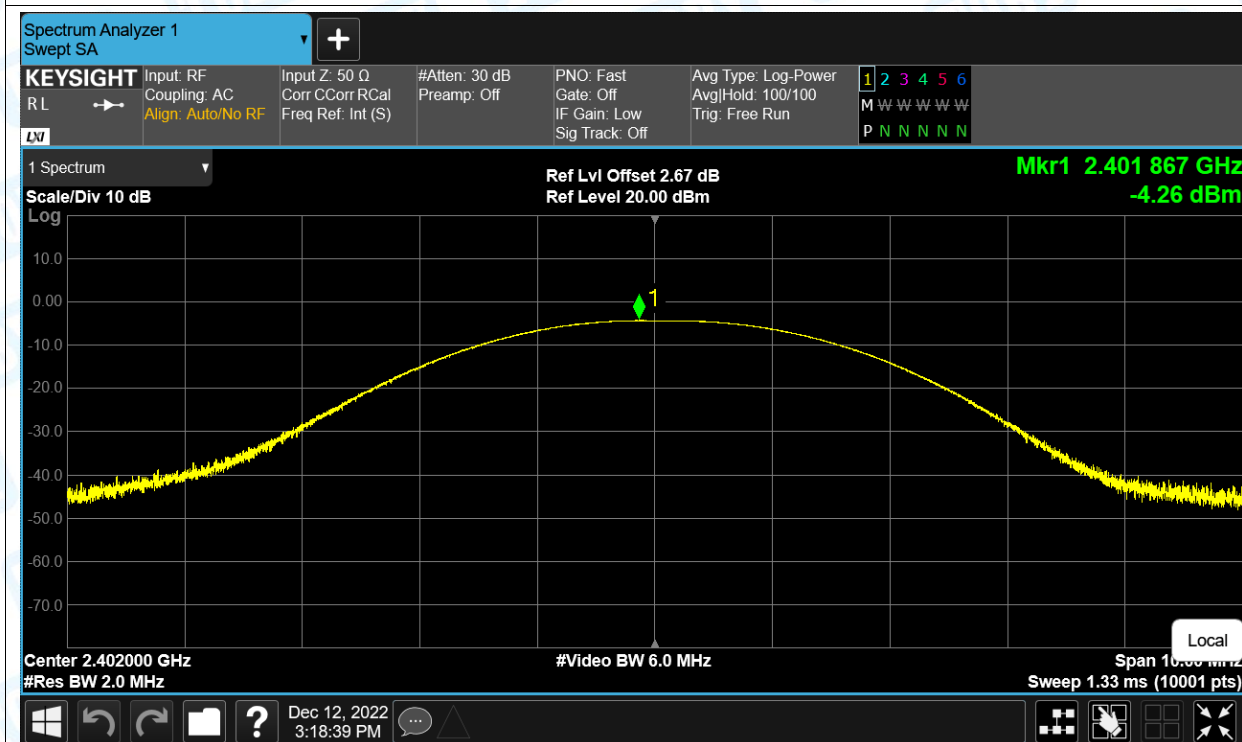


2. Maximum Conducted Output Power

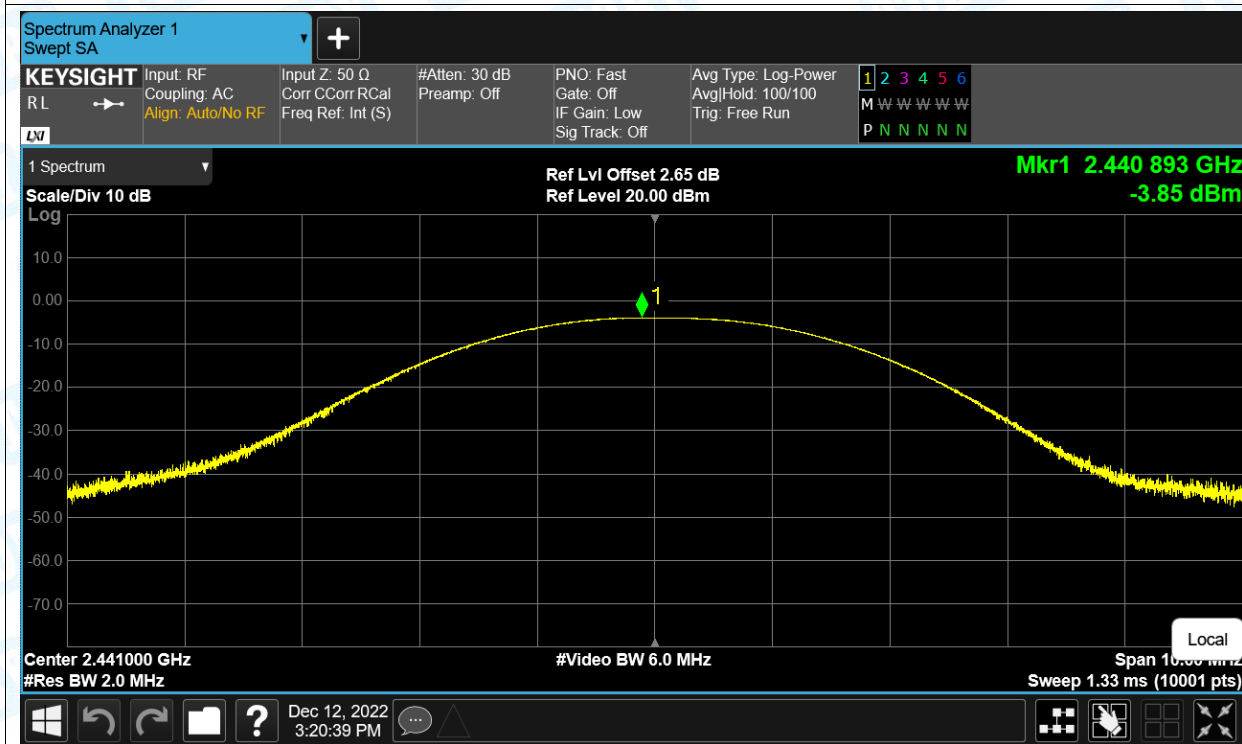
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-4.257	21	Pass
NVNT	1-DH1	2441	Ant1	-3.848	21	Pass
NVNT	1-DH1	2480	Ant1	-3.516	21	Pass
NVNT	2-DH1	2402	Ant1	-3.625	21	Pass
NVNT	2-DH1	2441	Ant1	-3.08	21	Pass
NVNT	2-DH1	2480	Ant1	-2.701	21	Pass
NVNT	3-DH1	2402	Ant1	-2.926	21	Pass
NVNT	3-DH1	2441	Ant1	-2.436	21	Pass
NVNT	3-DH1	2480	Ant1	-2.152	21	Pass

Test Graphs

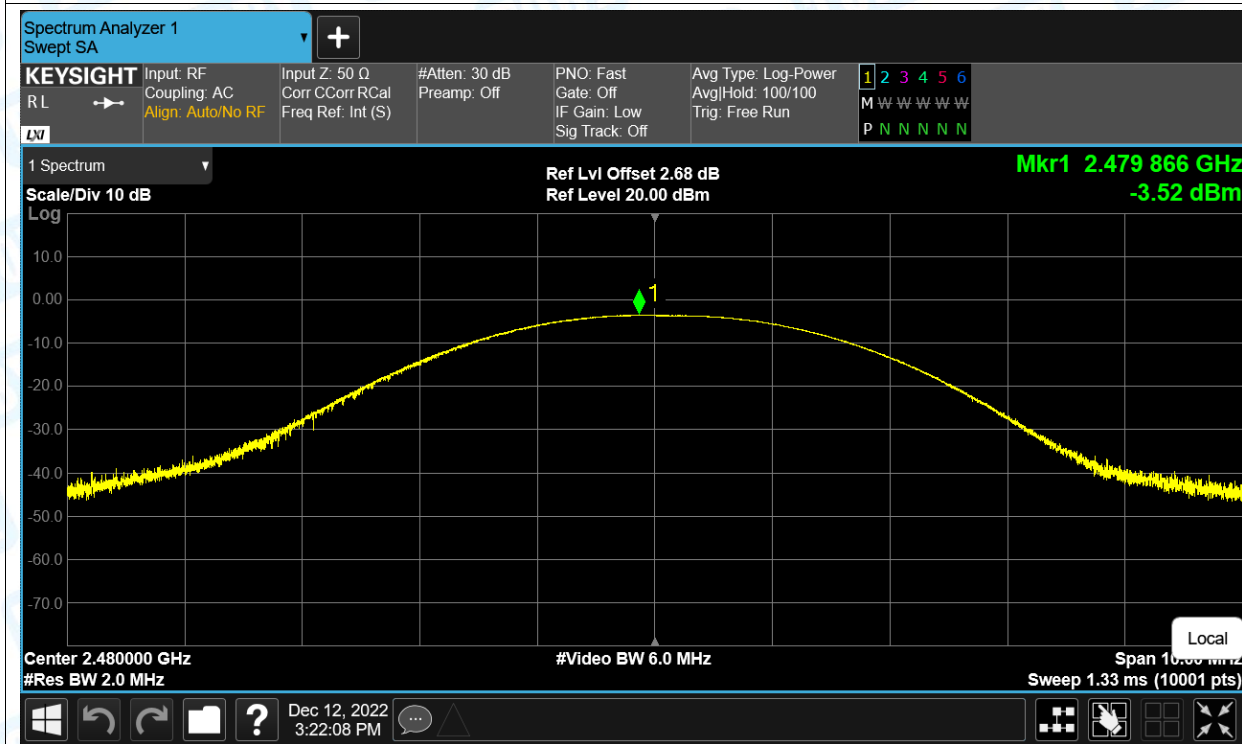
Power NVNT 1-DH1 2402MHz Ant1



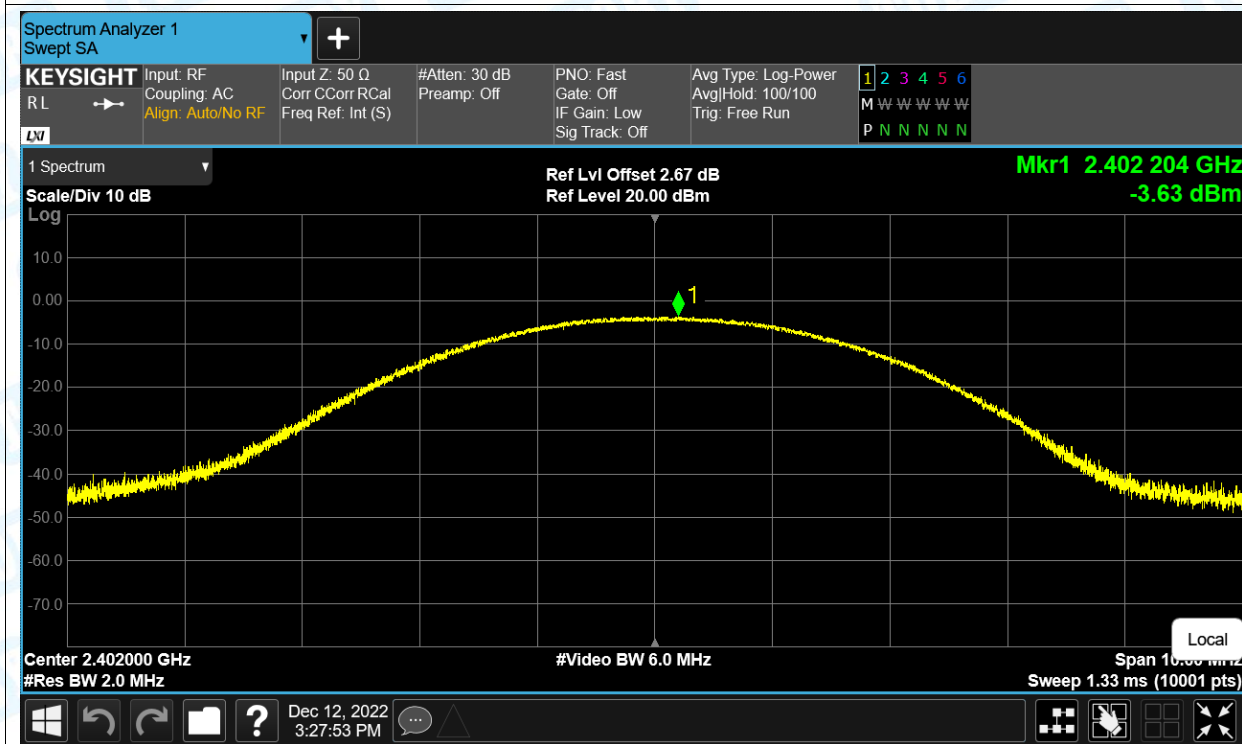
Power NVNT 1-DH1 2441MHz Ant1



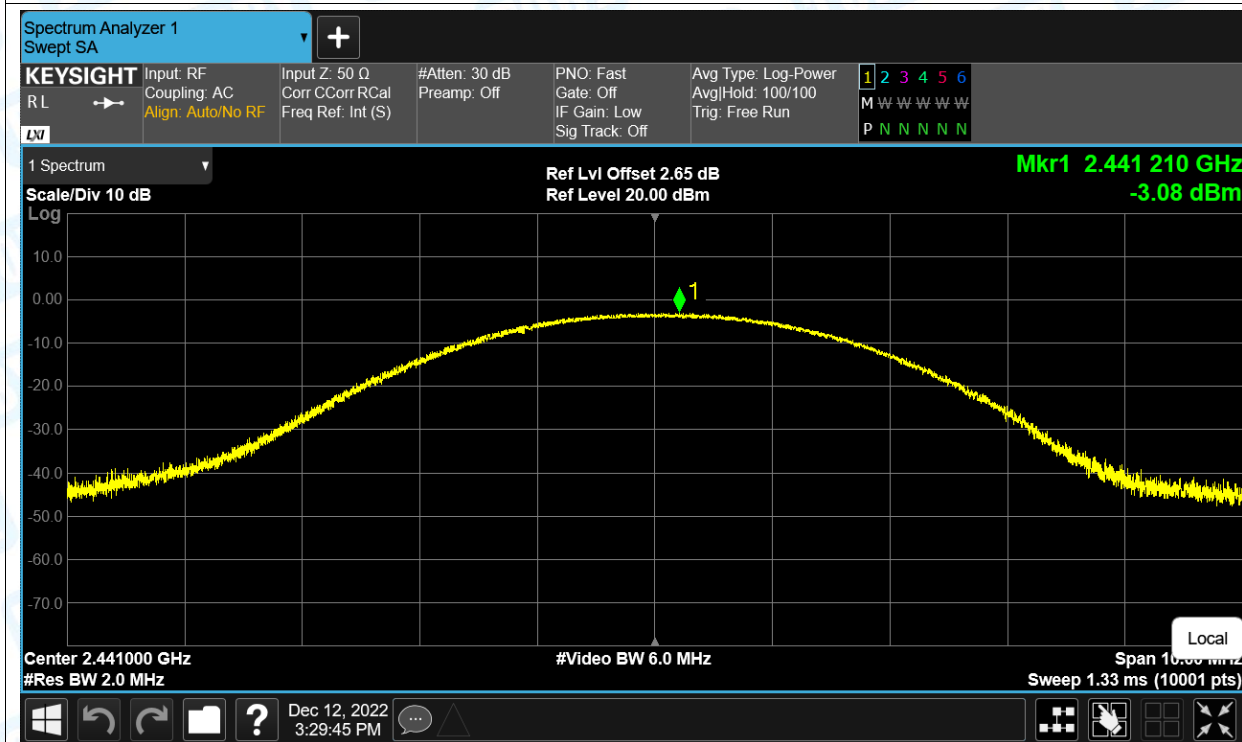
Power NVNT 1-DH1 2480MHz Ant1



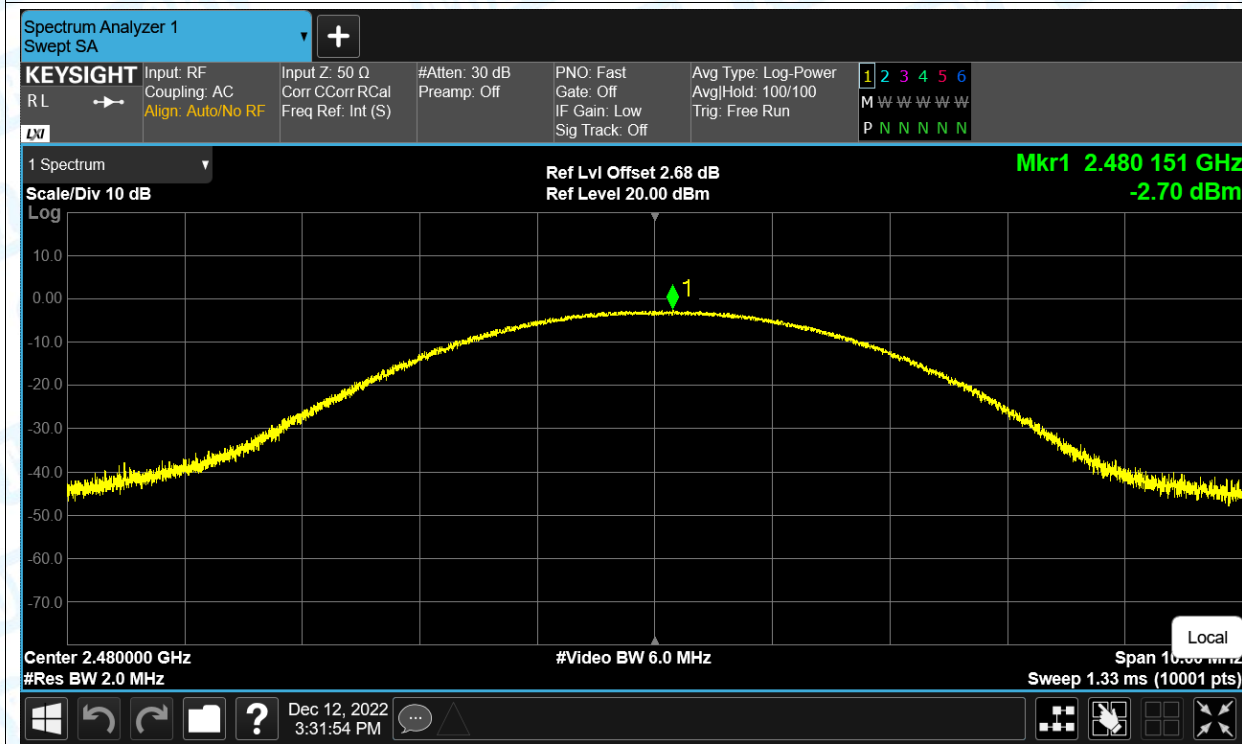
Power NVNT 2-DH1 2402MHz Ant1



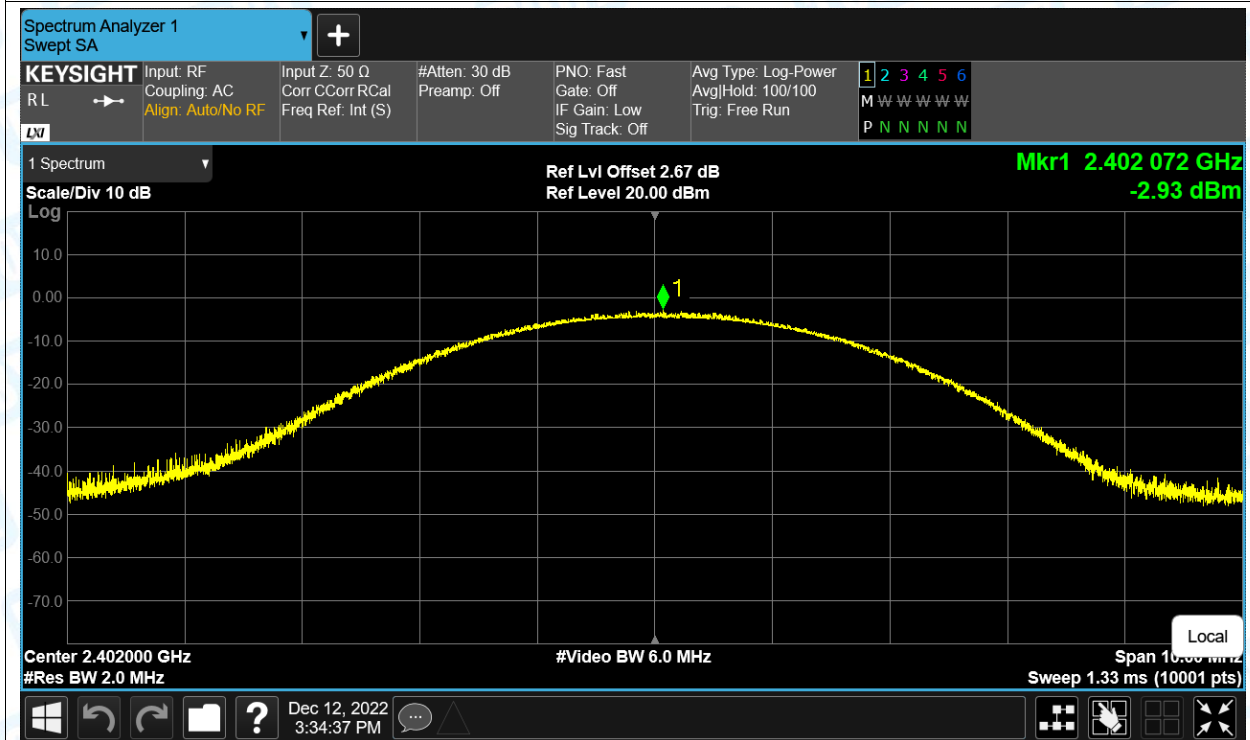
Power NVNT 2-DH1 2441MHz Ant1



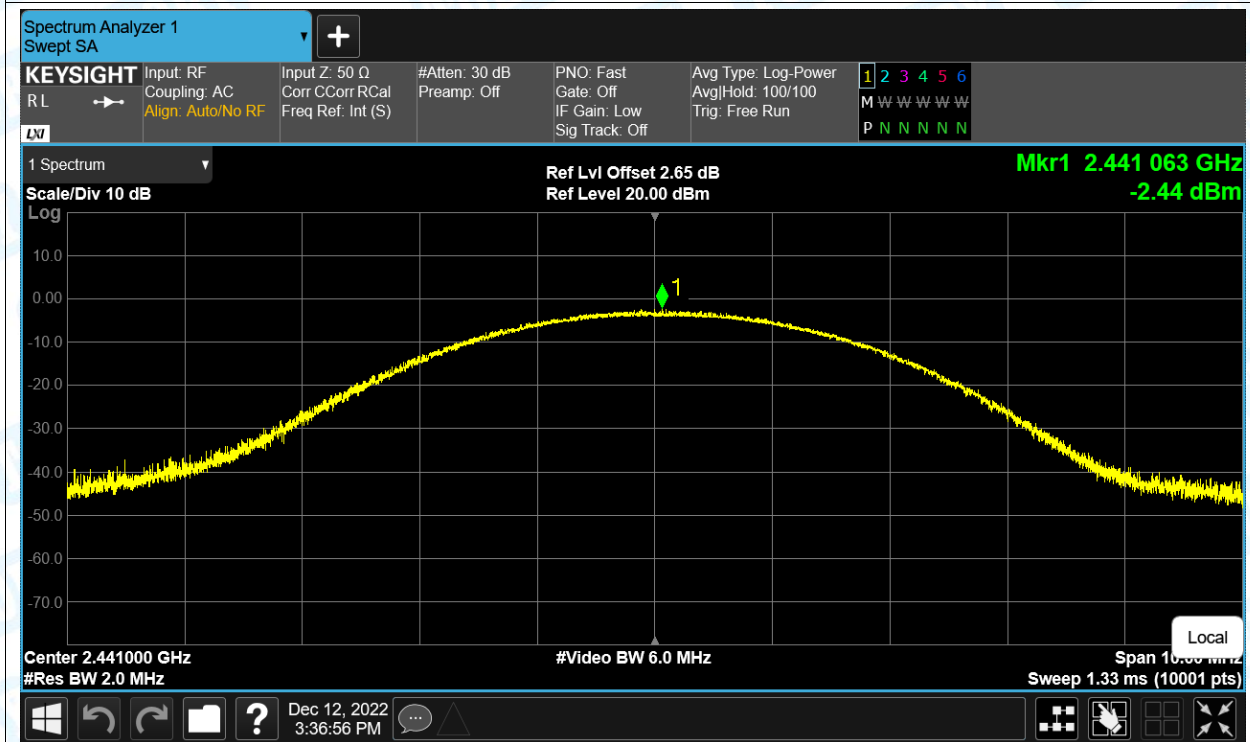
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1





3. -20dB Bandwidth

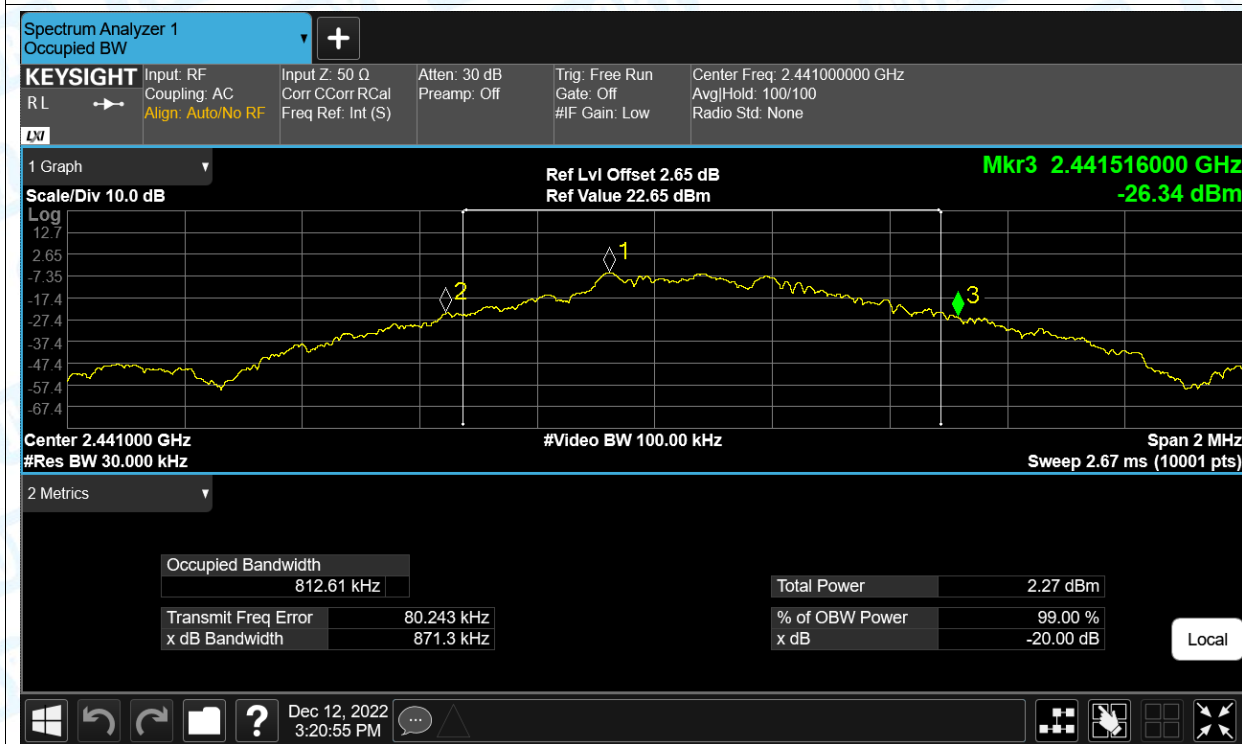
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	2/3 *20dB BW (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	0.587	Pass
NVNT	1-DH1	2441	Ant1	0.87	0.580	Pass
NVNT	1-DH1	2480	Ant1	0.87	0.580	Pass
NVNT	2-DH1	2402	Ant1	1.26	0.840	Pass
NVNT	2-DH1	2441	Ant1	1.24	0.827	Pass
NVNT	2-DH1	2480	Ant1	1.25	0.833	Pass
NVNT	3-DH1	2402	Ant1	1.22	0.813	Pass
NVNT	3-DH1	2441	Ant1	1.22	0.813	Pass
NVNT	3-DH1	2480	Ant1	1.21	0.807	Pass

Test Graphs

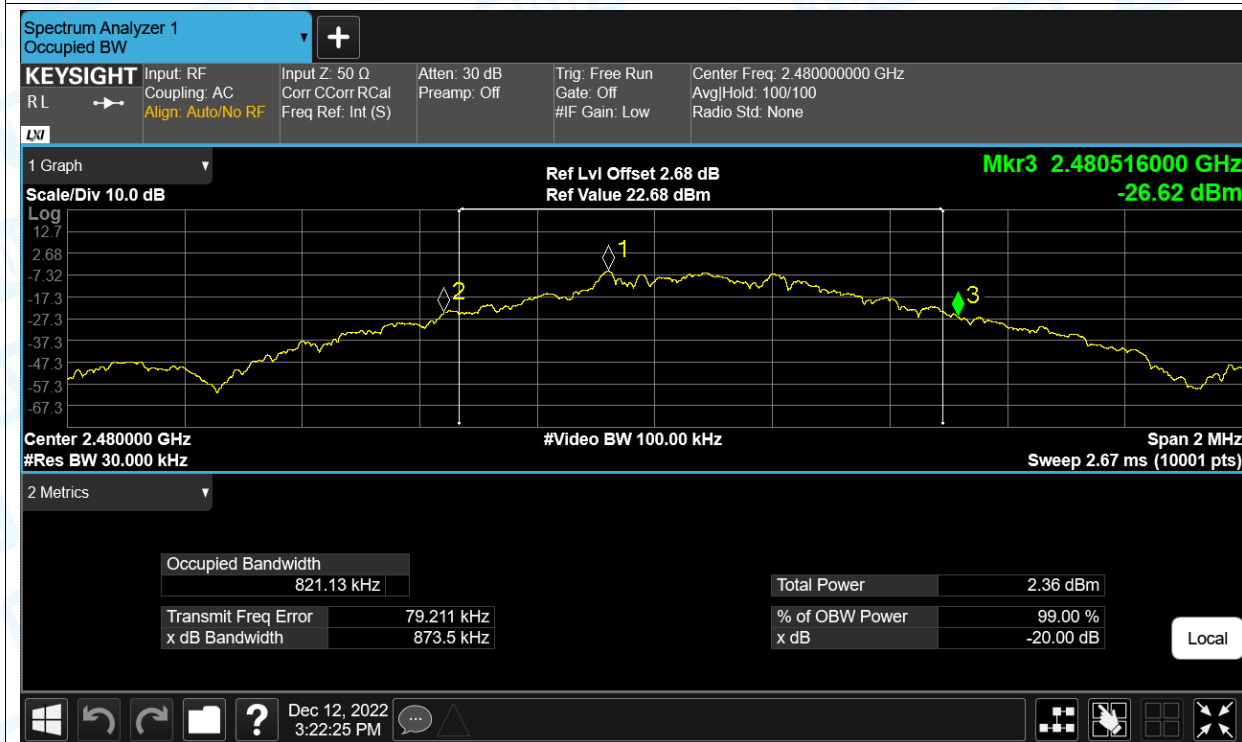
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



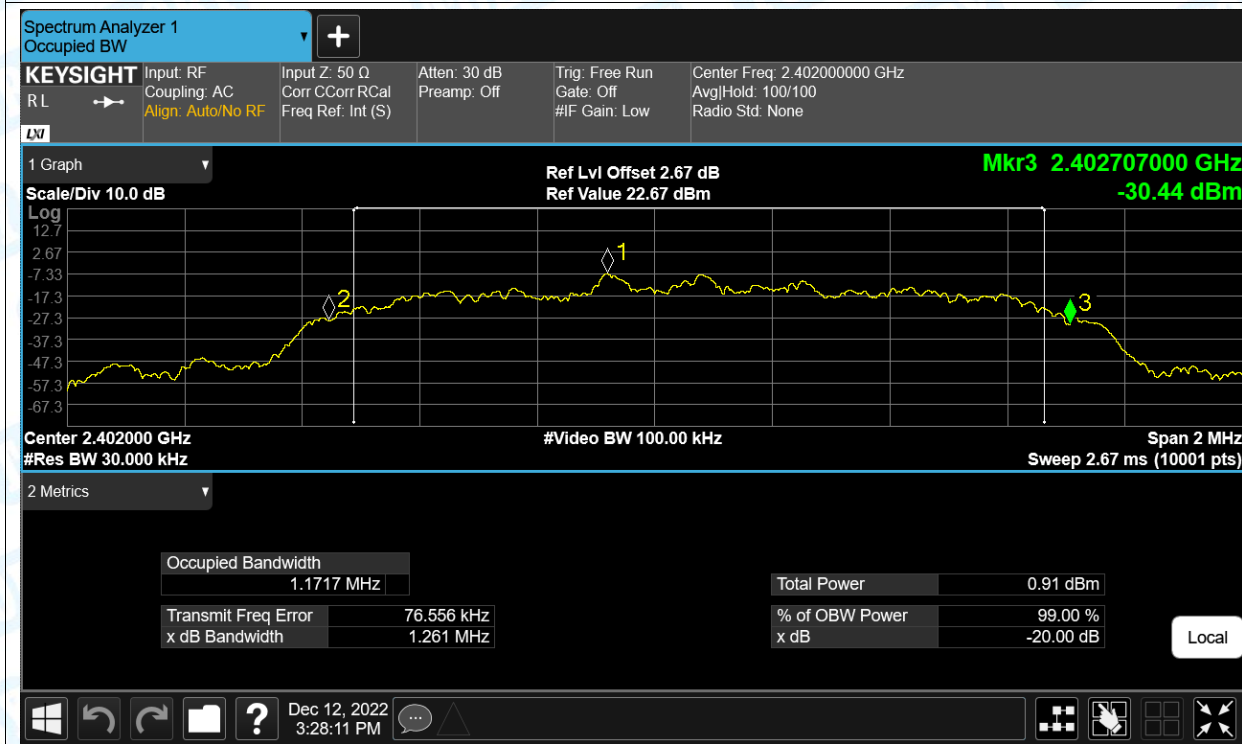
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



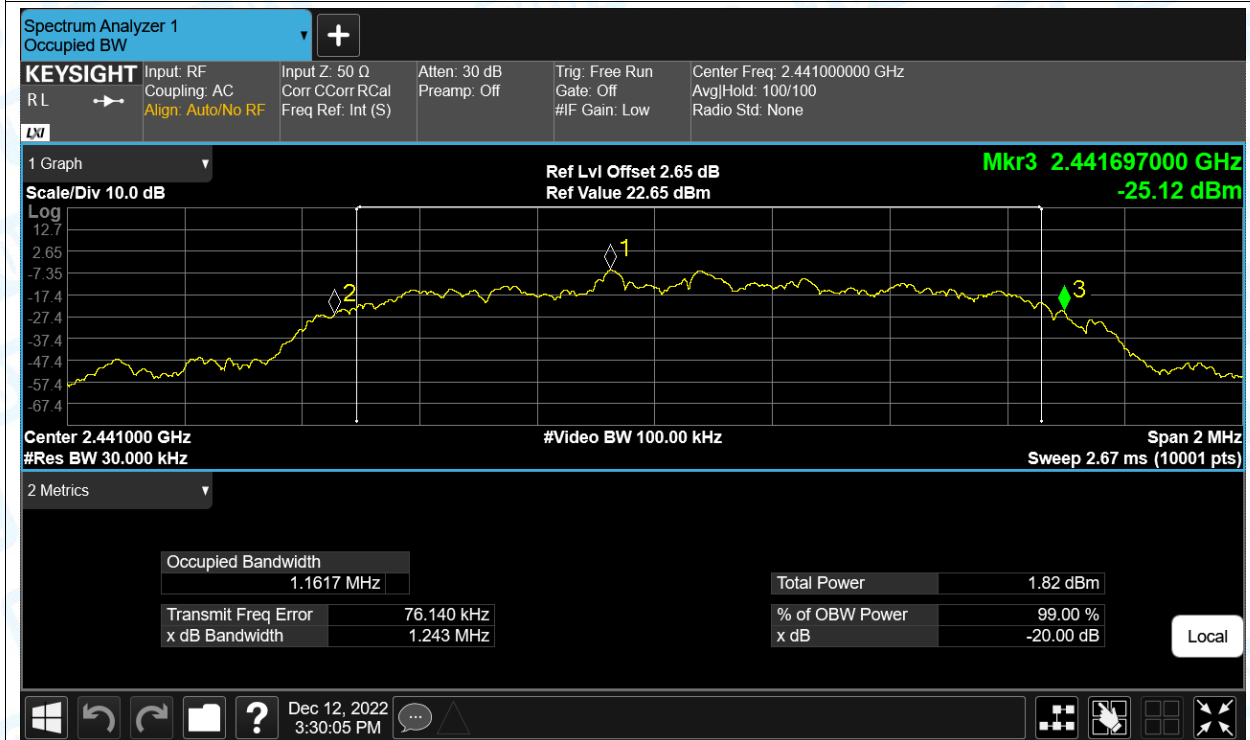
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



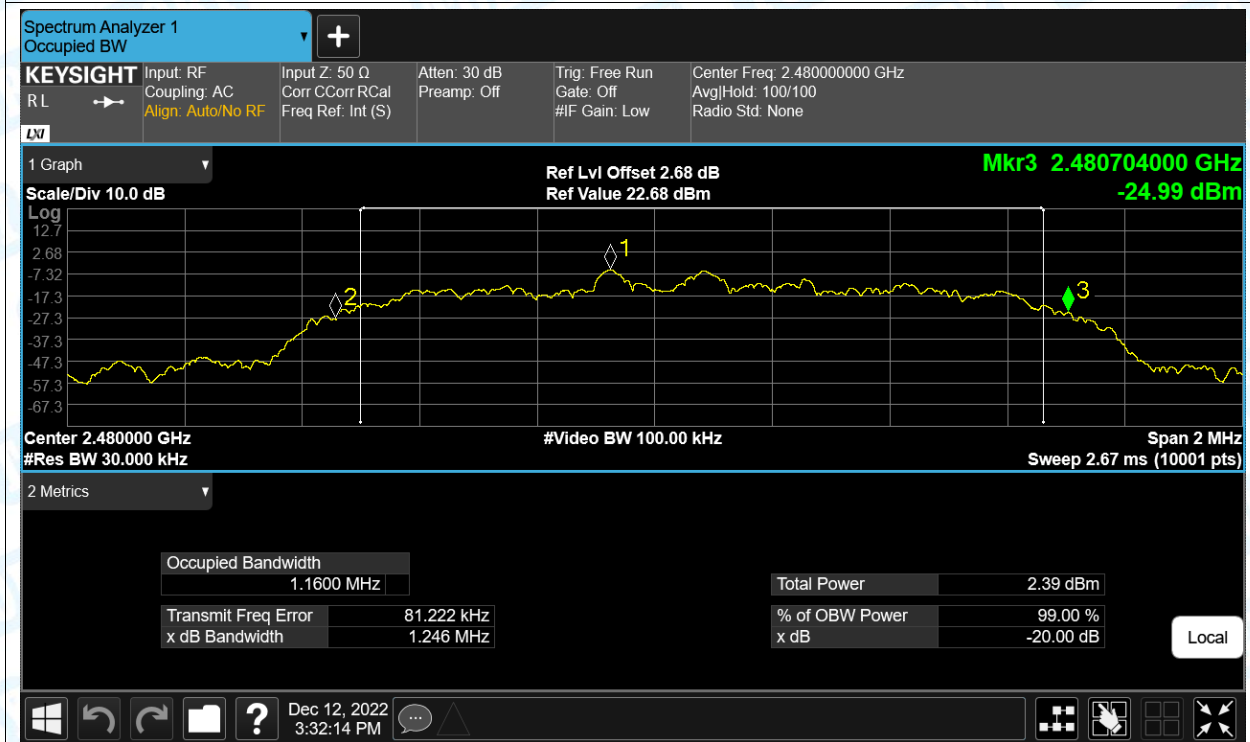
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



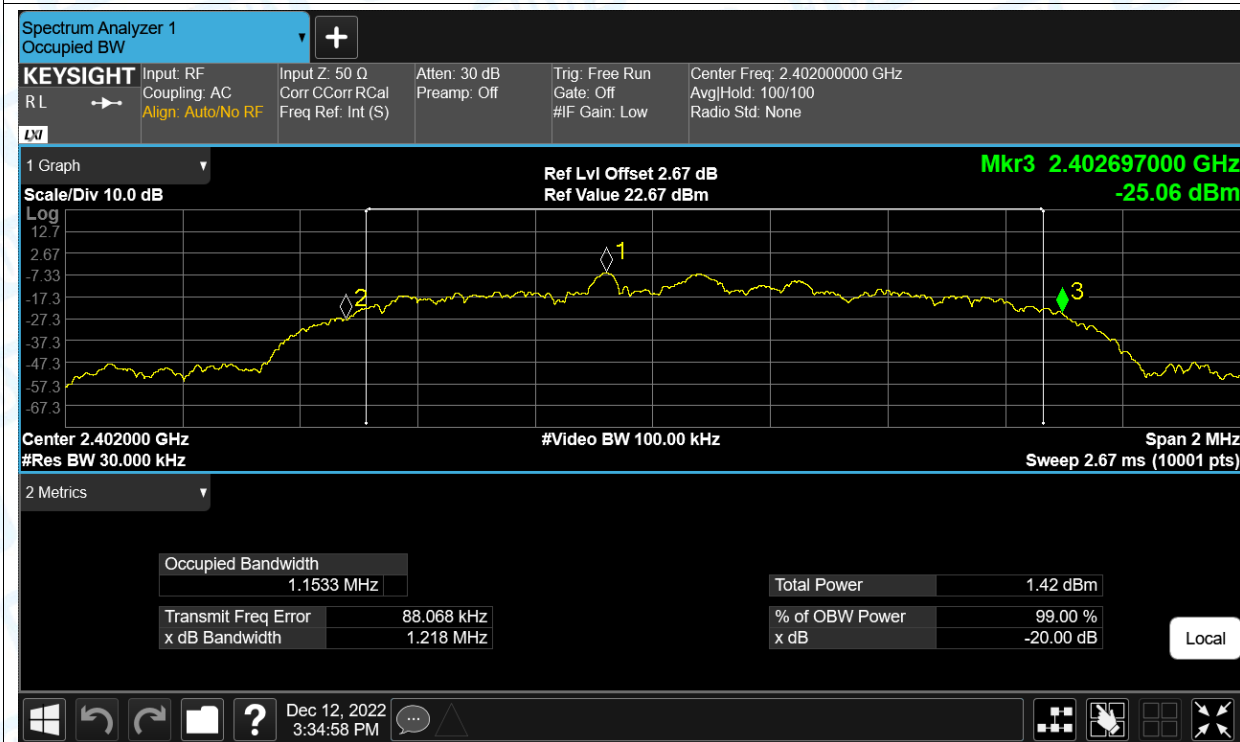
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



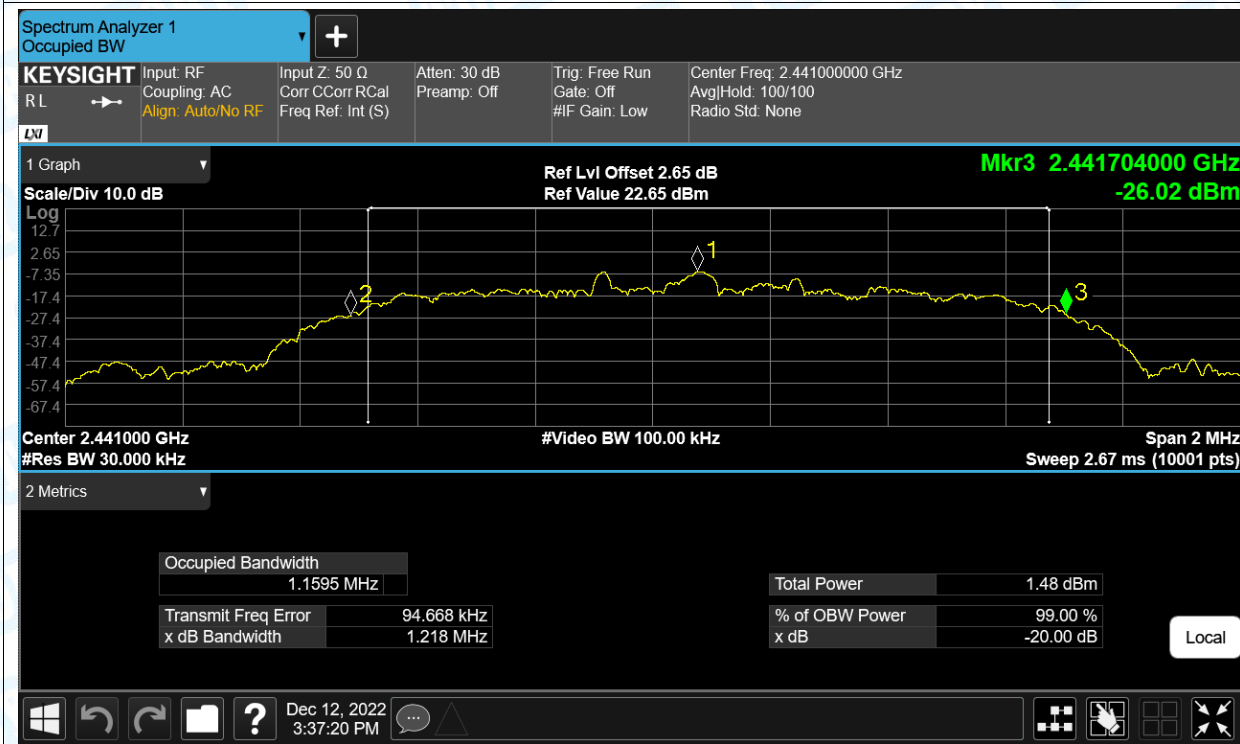
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

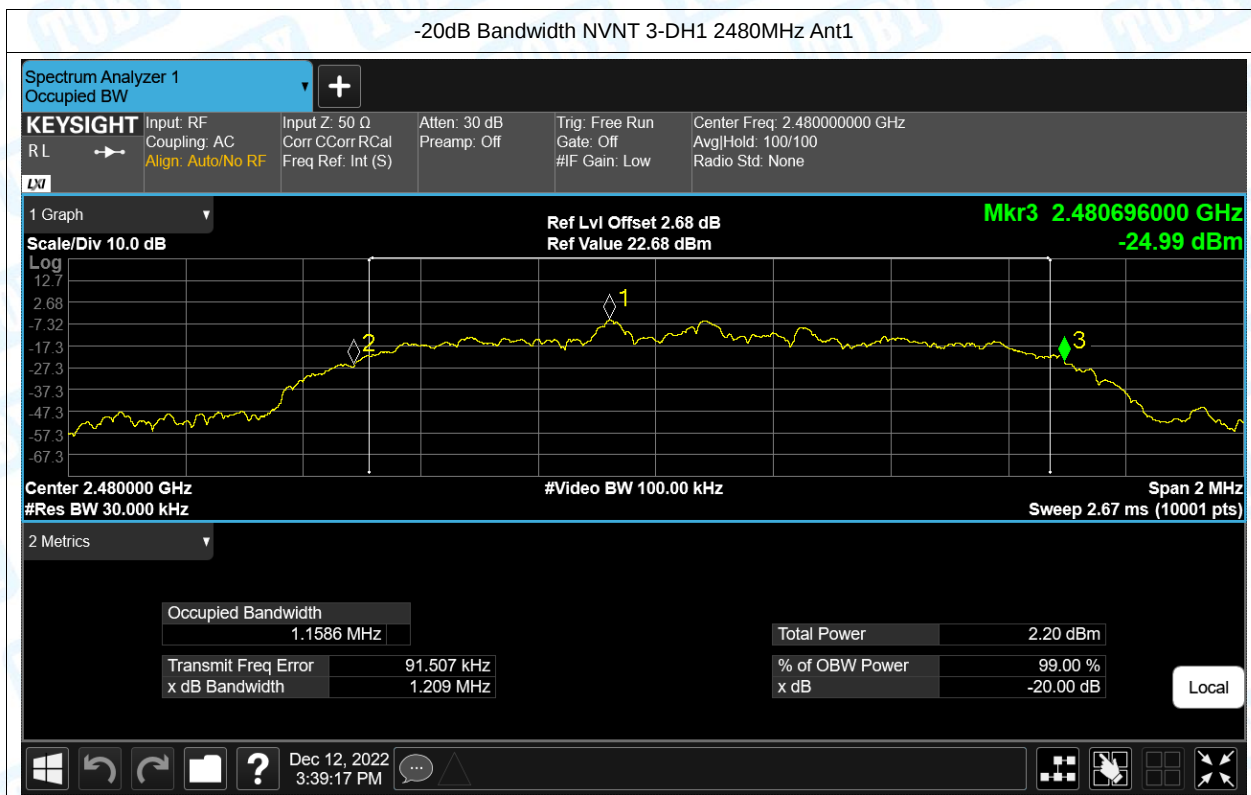


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1





4. Occupied Channel Bandwidth

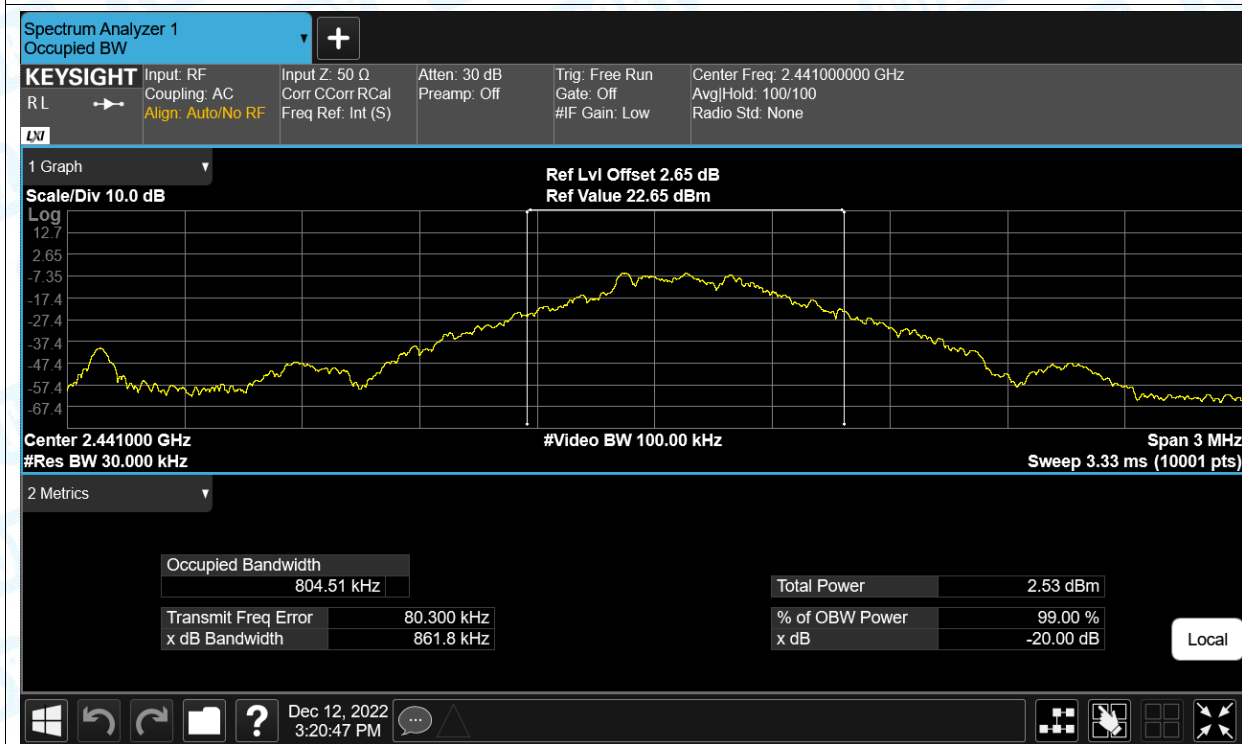
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.812
NVNT	1-DH1	2441	Ant1	0.805
NVNT	1-DH1	2480	Ant1	0.823
NVNT	2-DH1	2402	Ant1	1.13
NVNT	2-DH1	2441	Ant1	1.166
NVNT	2-DH1	2480	Ant1	1.147
NVNT	3-DH1	2402	Ant1	1.151
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.157

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



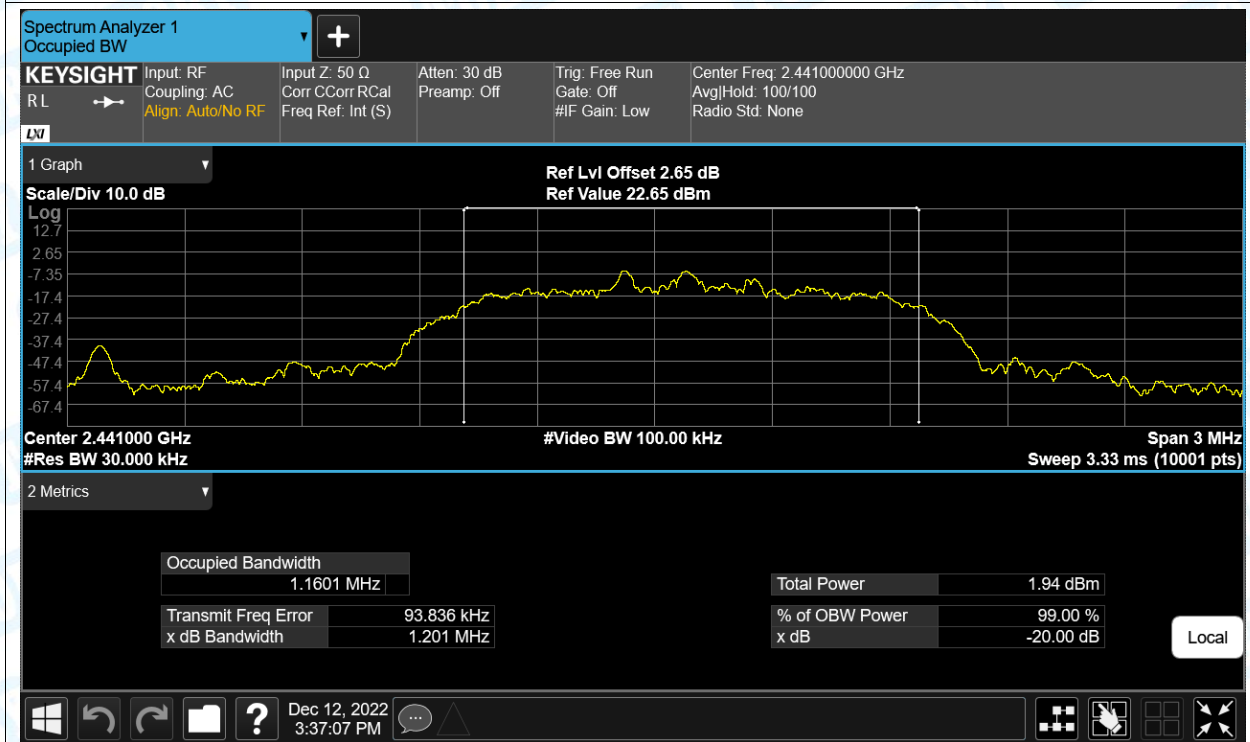
OBW NVNT 2-DH1 2480MHz Ant1

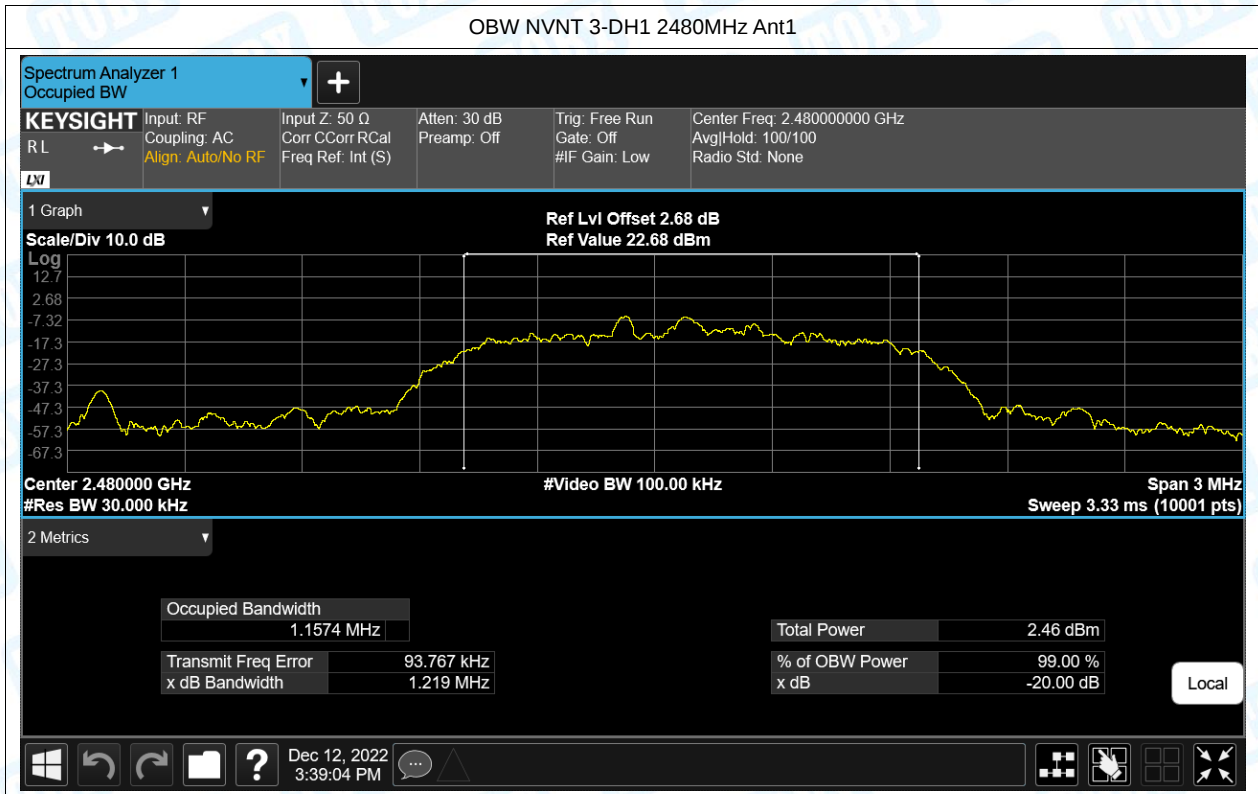


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



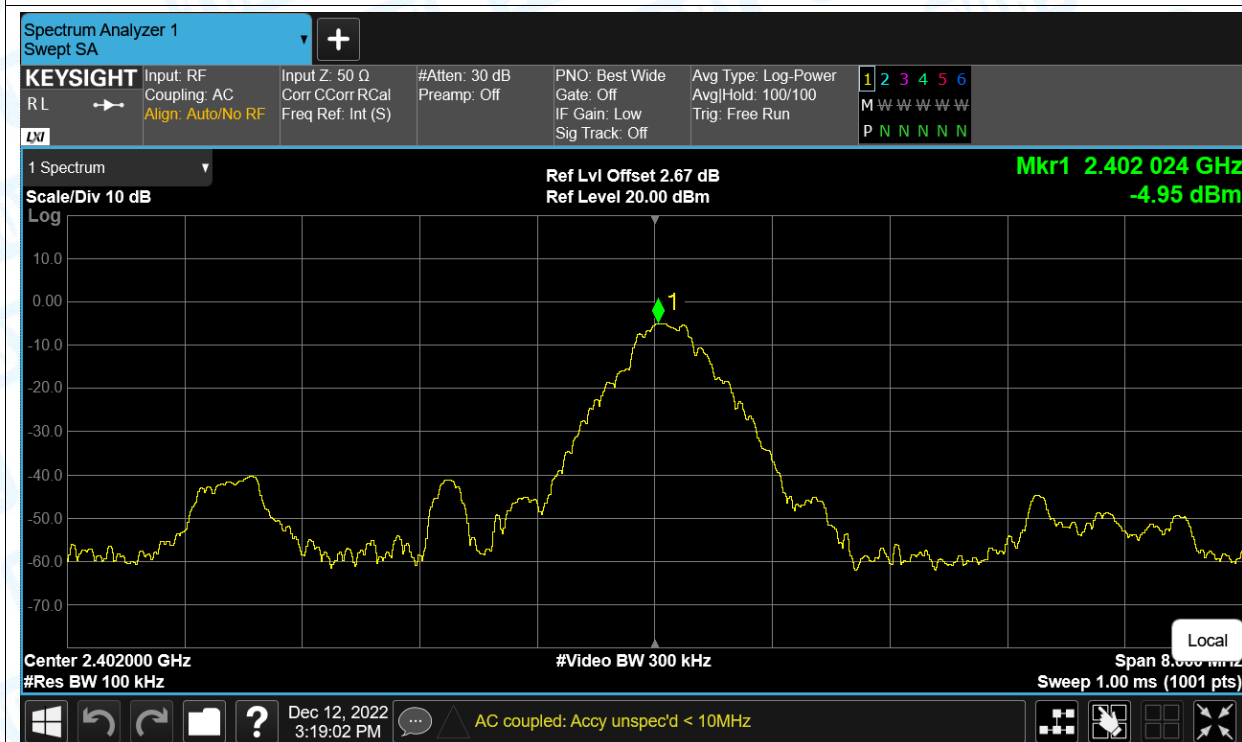


5. Band Edge

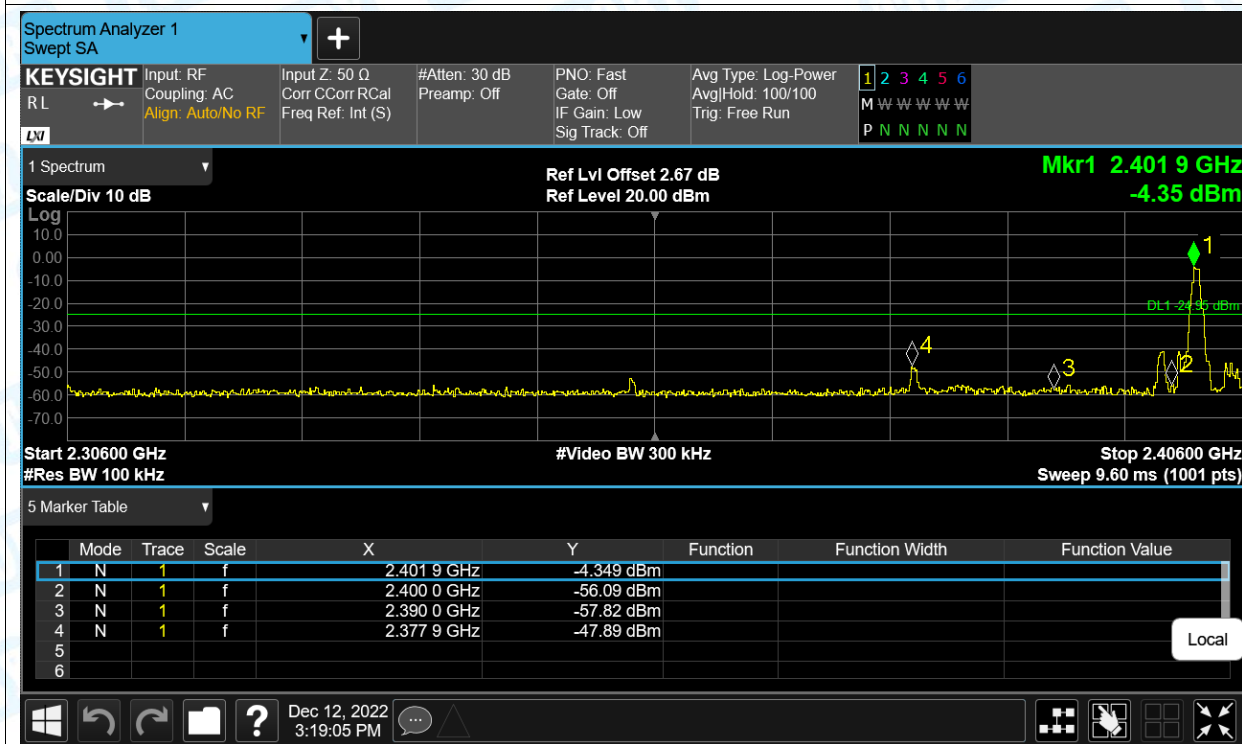
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-42.94	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-41.19	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-43.28	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-44.71	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-44.06	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-41.85	-20	Pass

Test Graphs

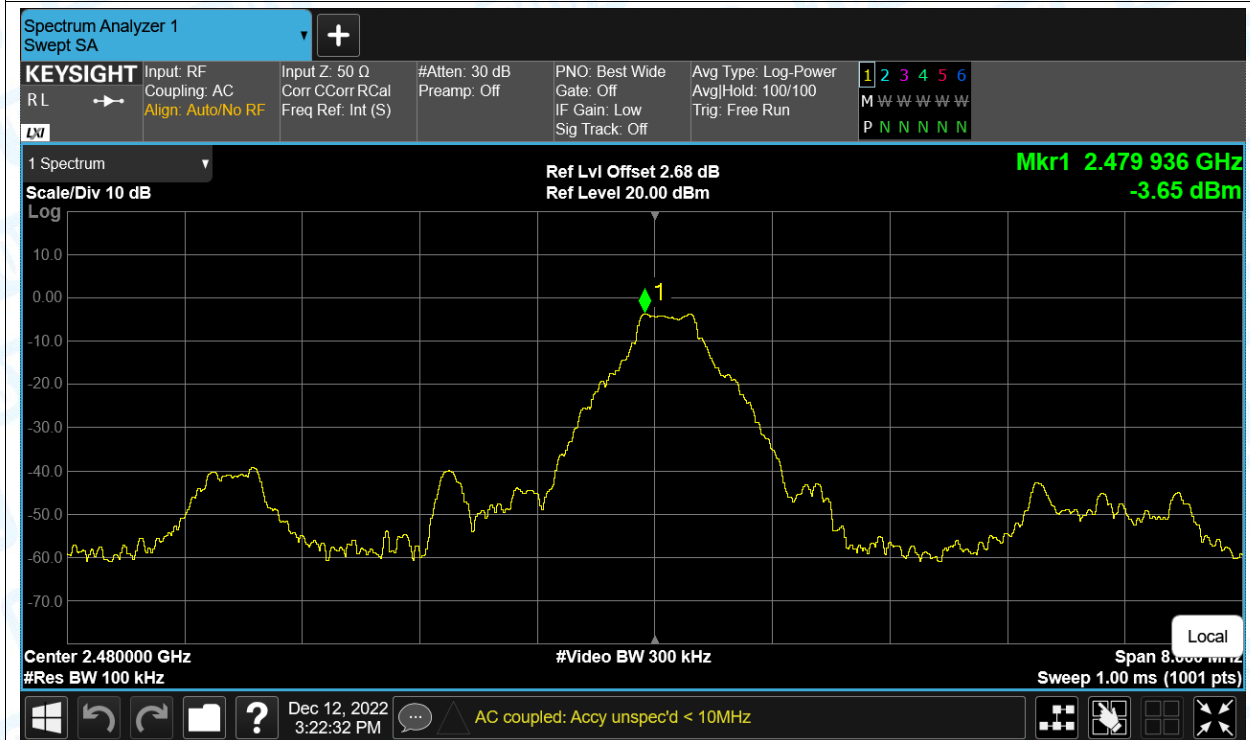
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



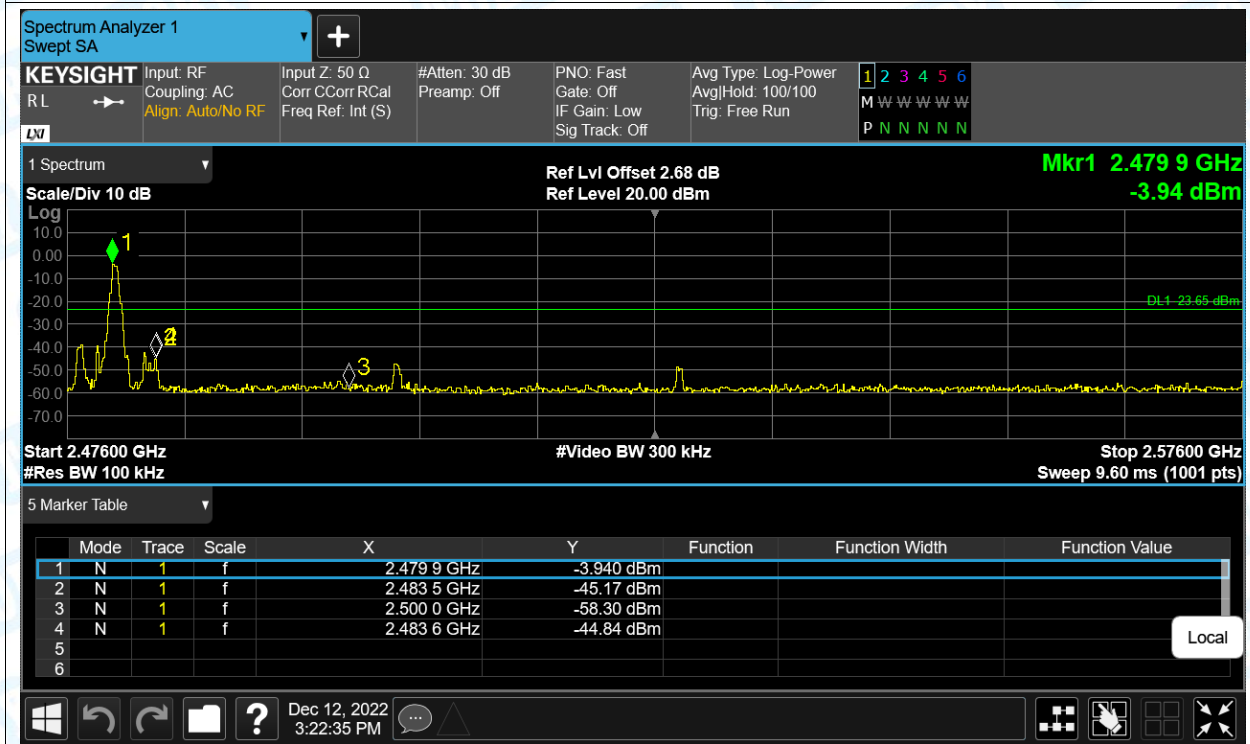
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



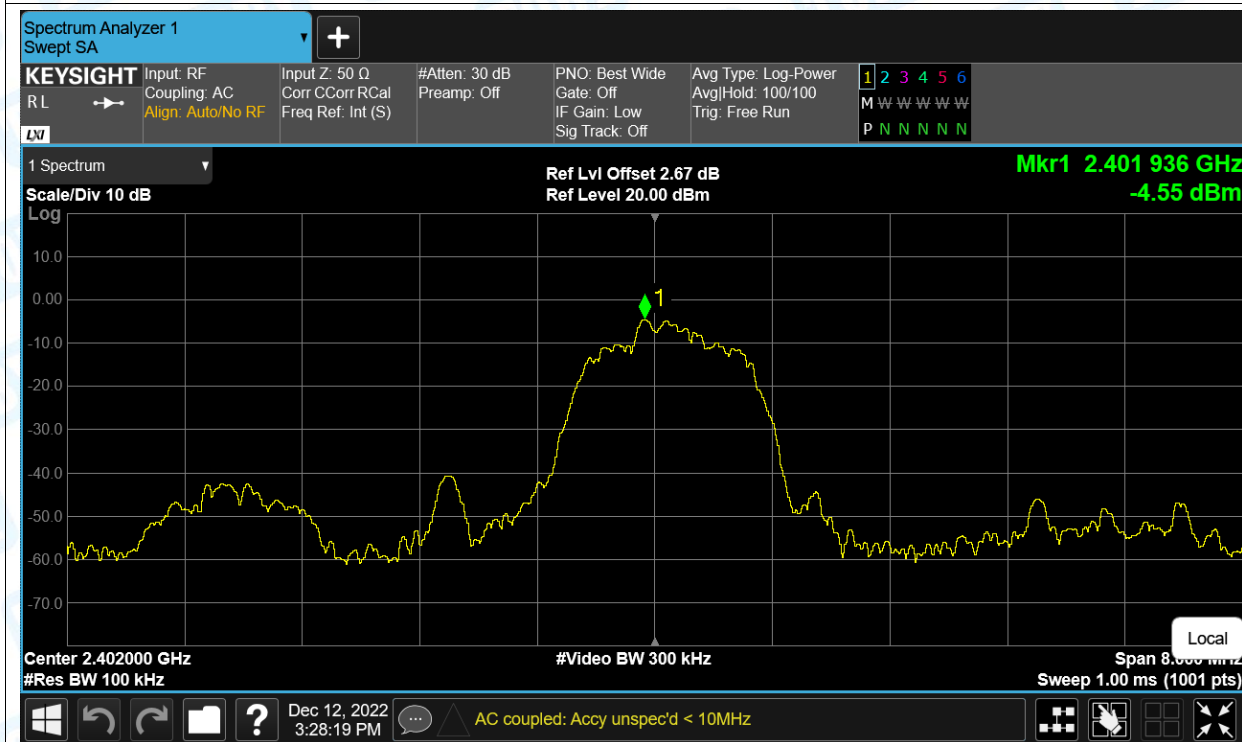
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



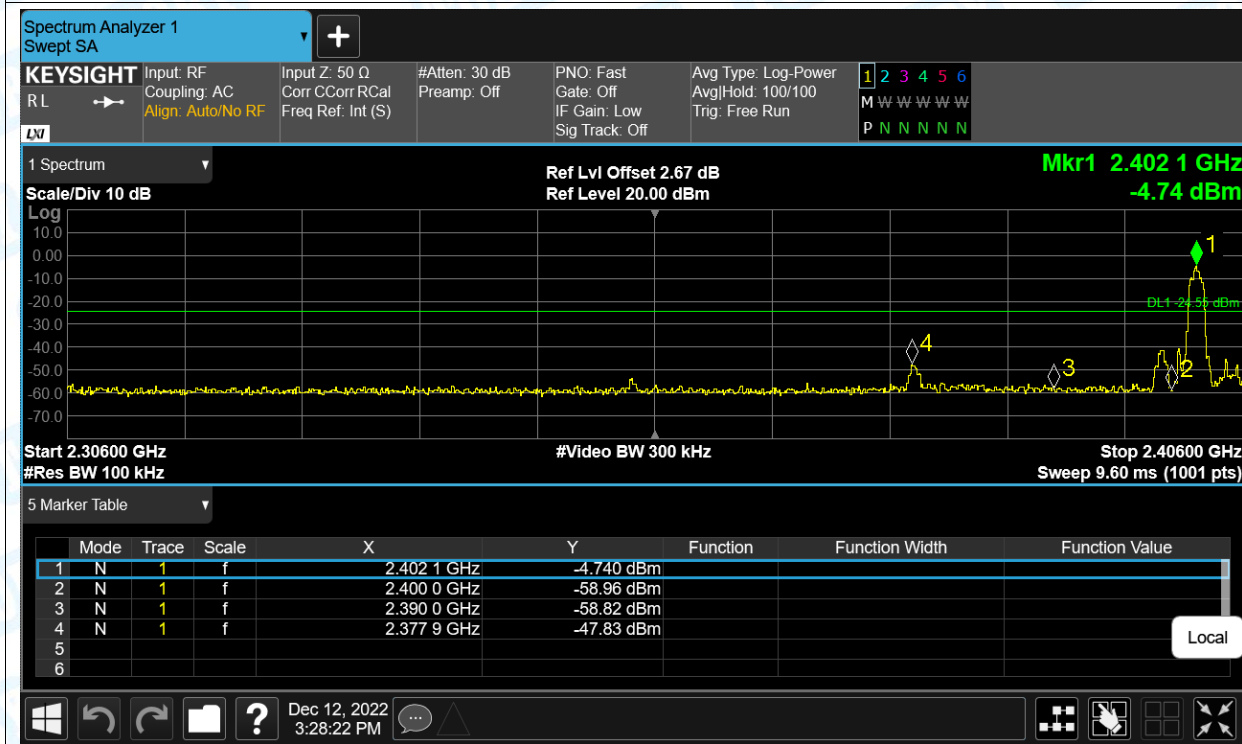
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



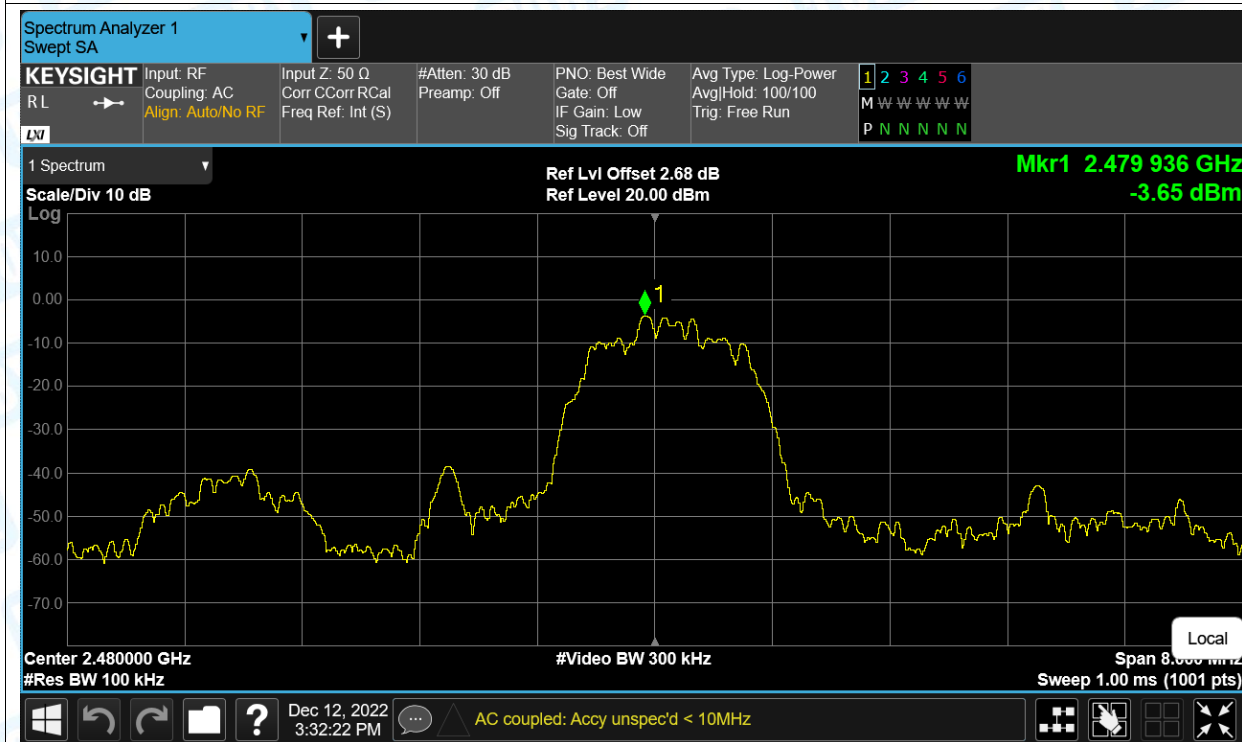
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



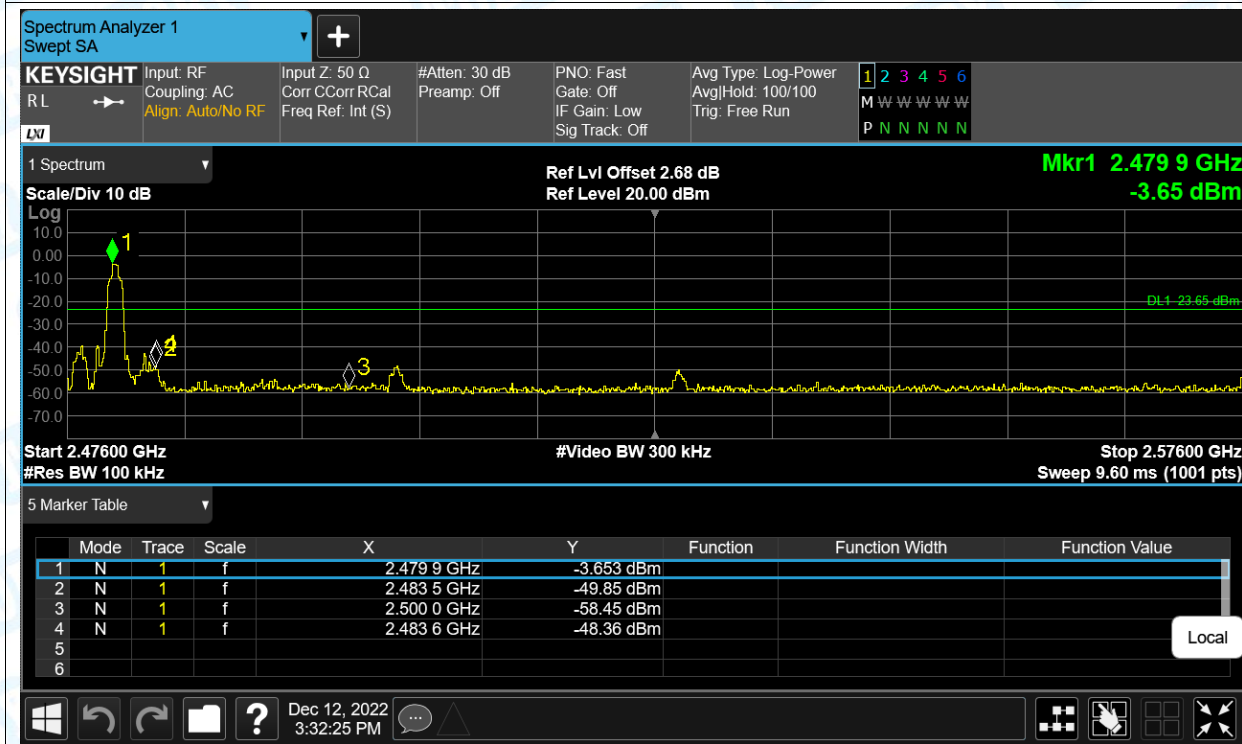
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



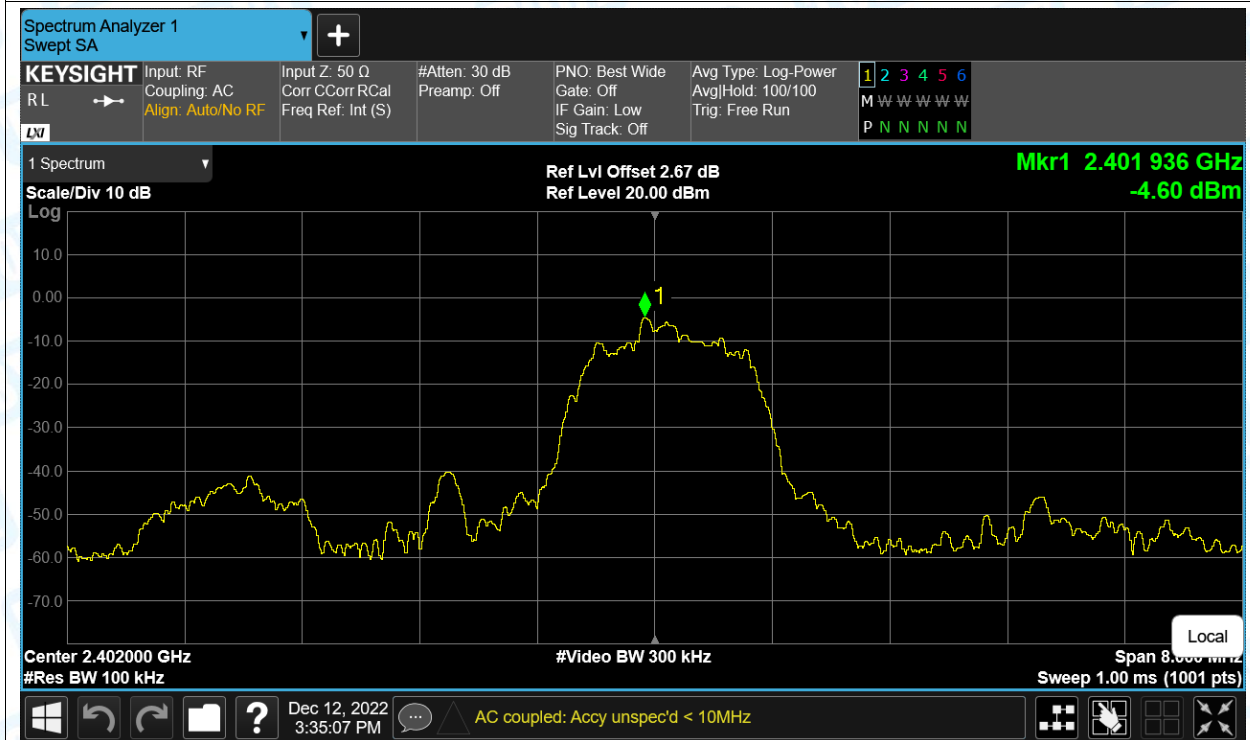
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



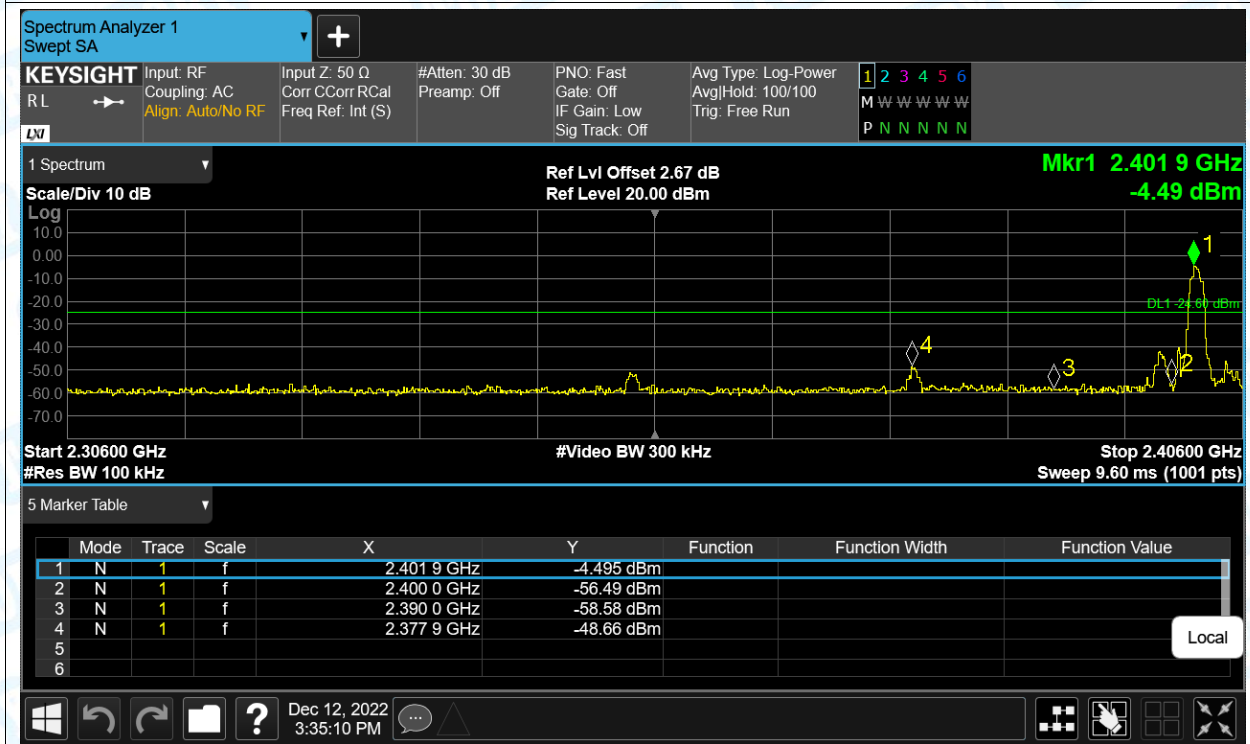
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



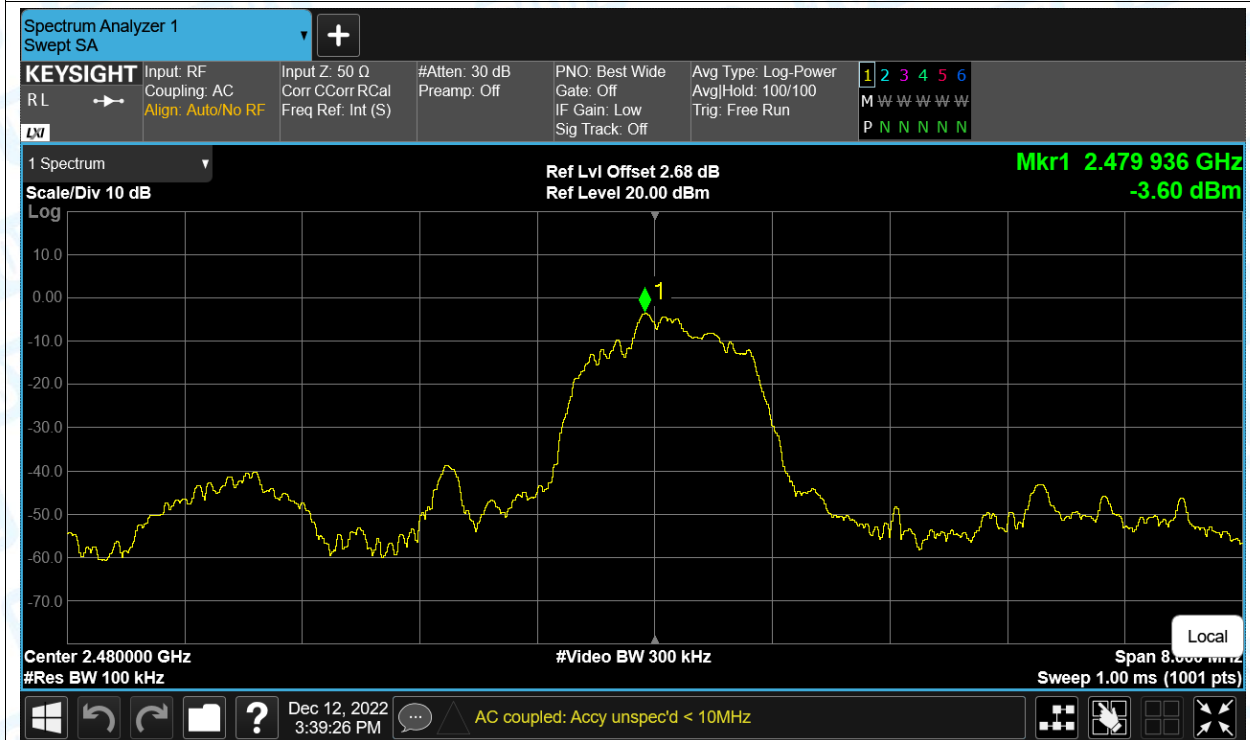
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



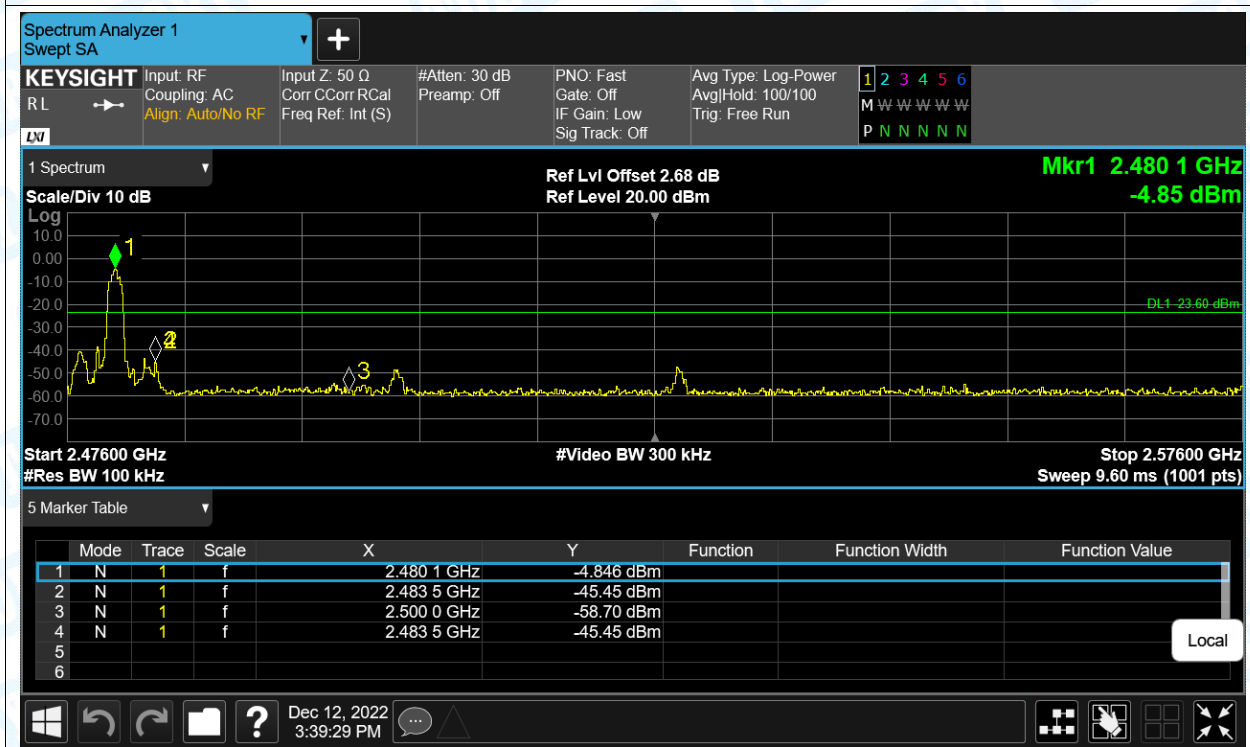
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

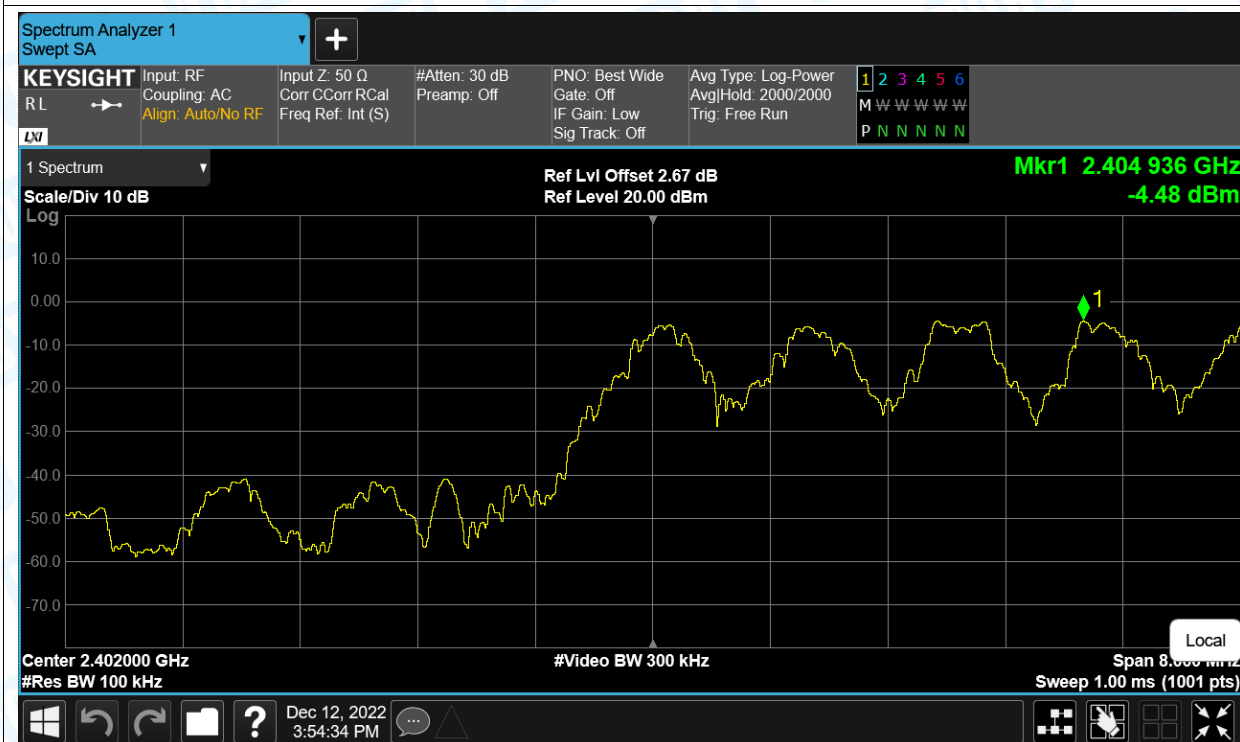


6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-43.25	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-42.72	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-42.67	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-42.56	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-43.7	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-43.04	-20	Pass

Test Graphs

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



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

