

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

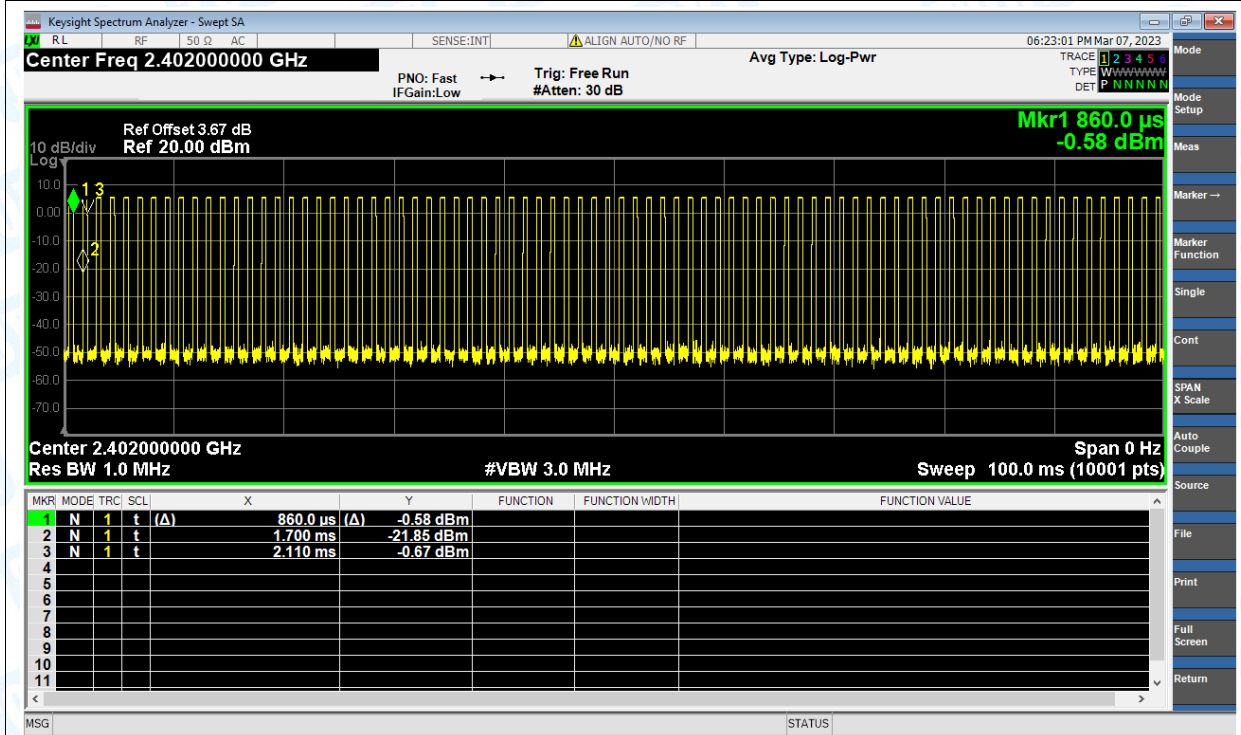
General Description of EUT	
Product Name:	Wireless Microphone
Test Model:	DX06
Sample ID:	RW-C-202302-0095-5-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Liu Ji Ming
Note: For a more detailed features description, please refer to the report TBR-C-202302-0095-8 The report only show the worst case data.	

1. Duty Cycle

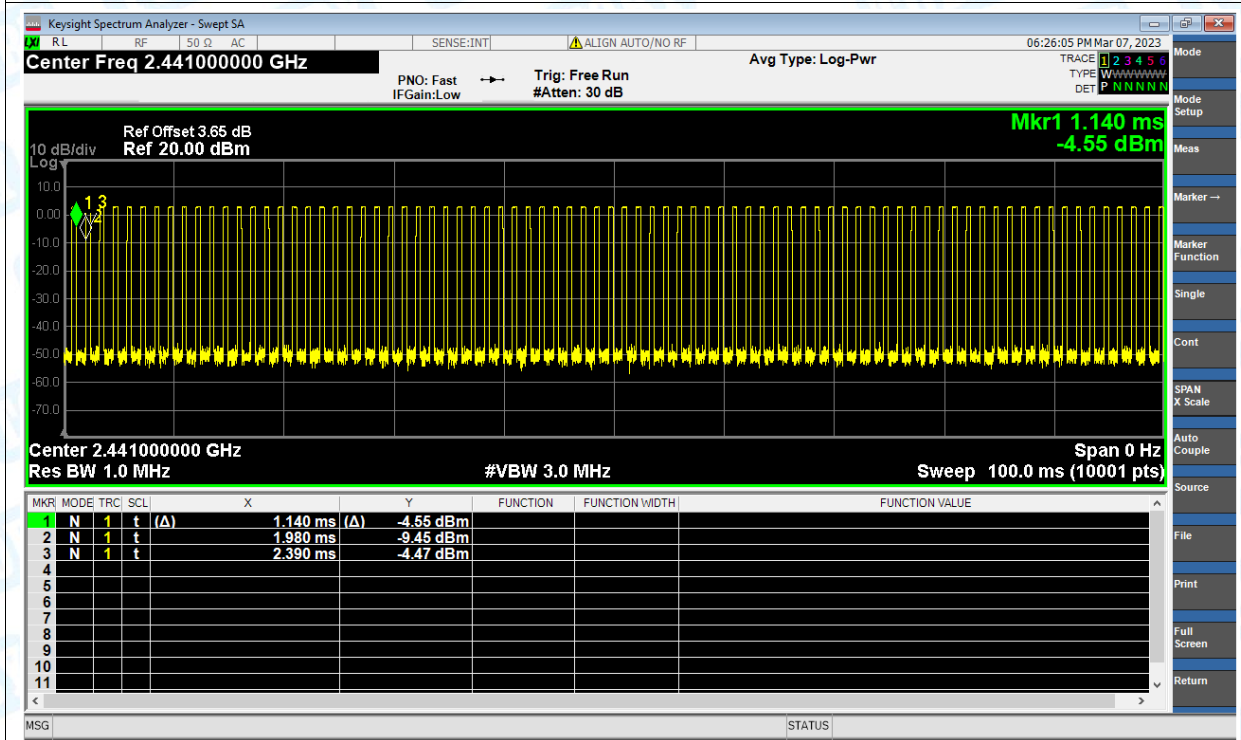
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	33.6	4.74	2.38
NVNT	2-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2480	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	3-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2480	Ant1	33.6	4.74	2.38

Test Graphs

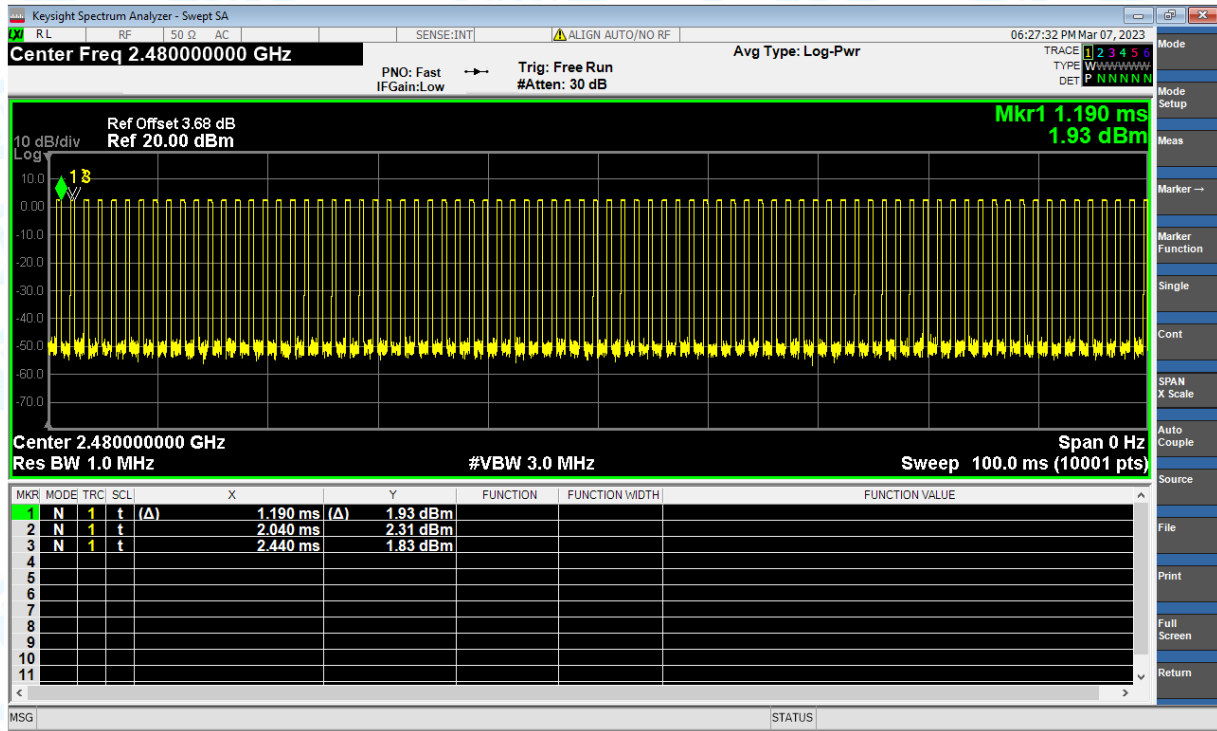
Duty Cycle NVNT 1-DH1 2402MHz Ant1



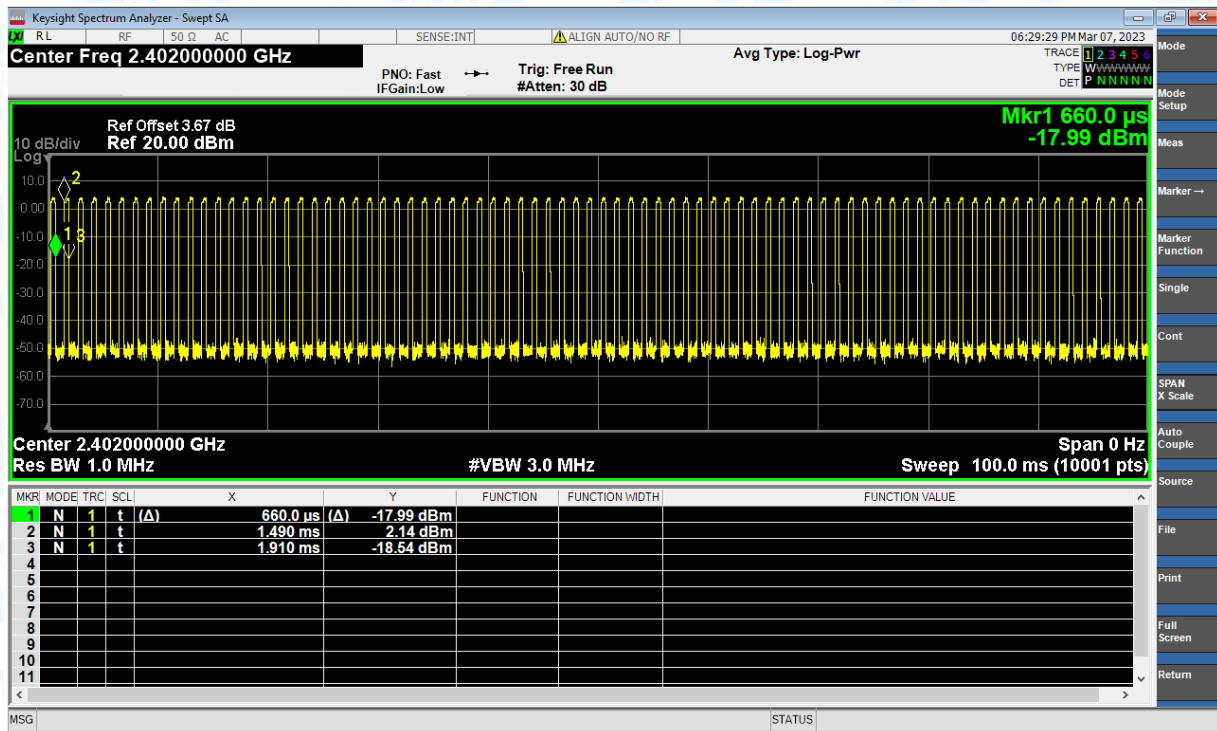
Duty Cycle NVNT 1-DH1 2441MHz Ant1



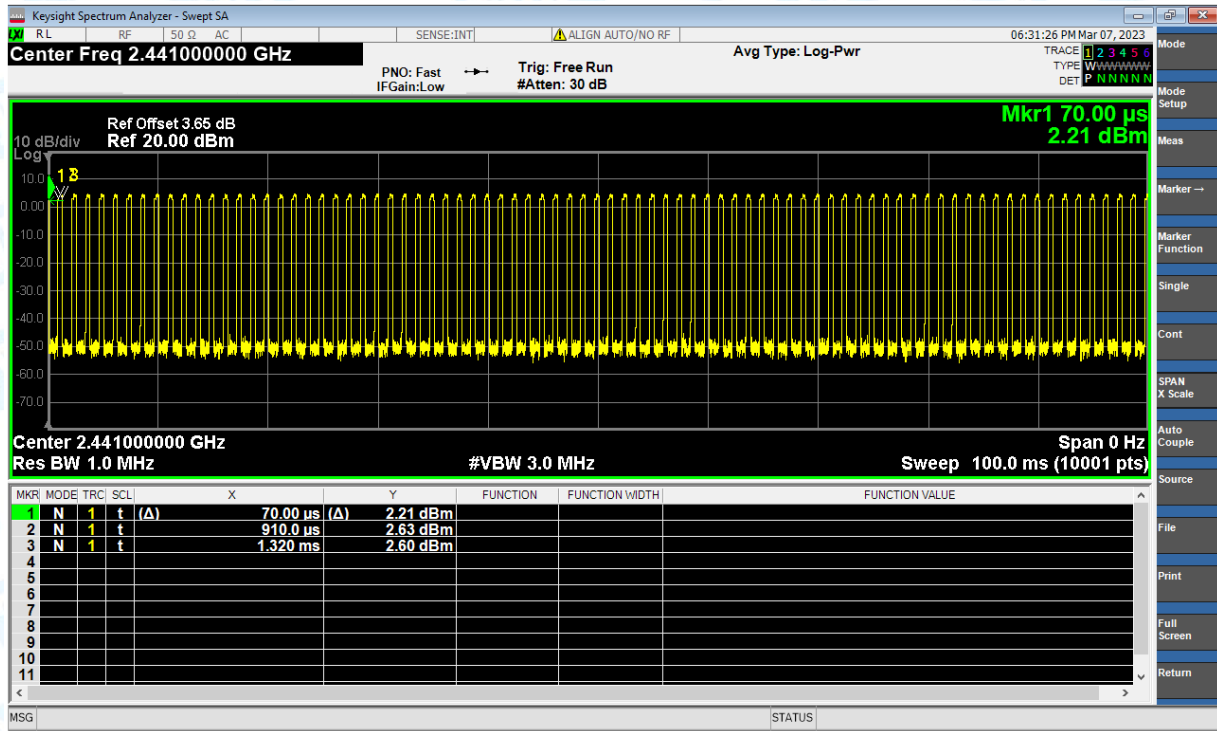
Duty Cycle NVNT 1-DH1 2480MHz Ant1



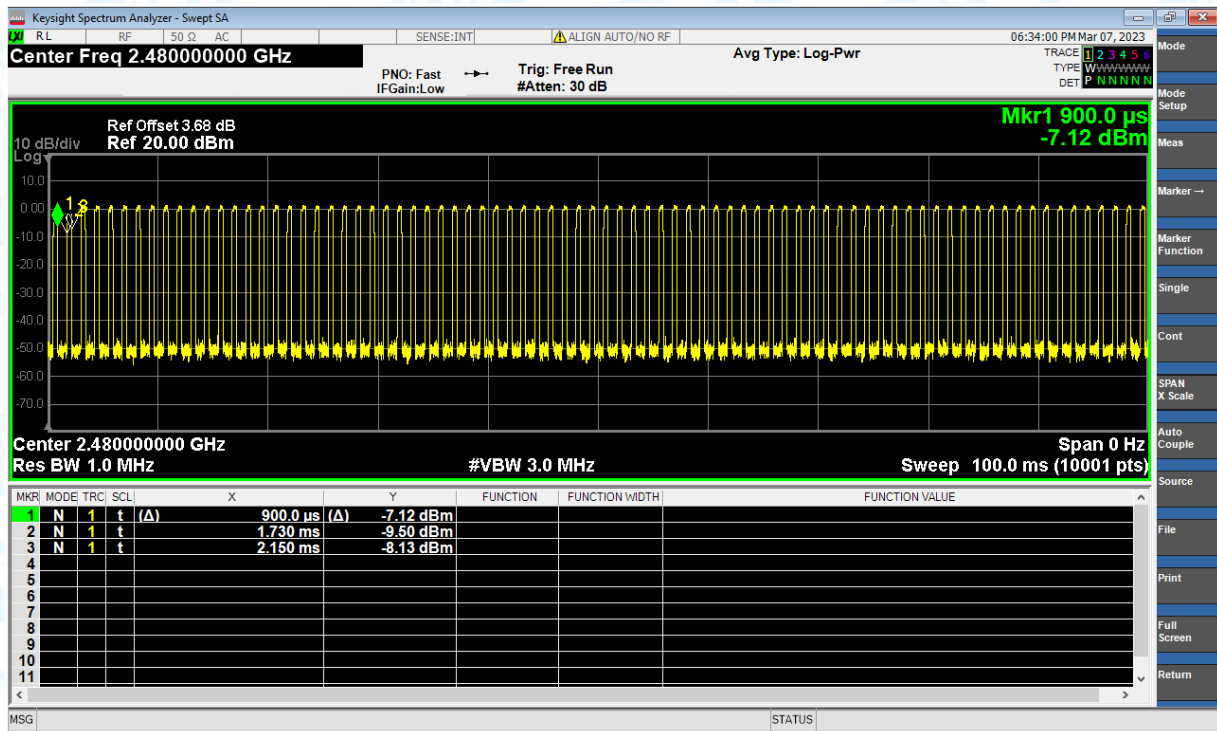
Duty Cycle NVNT 2-DH1 2402MHz Ant1



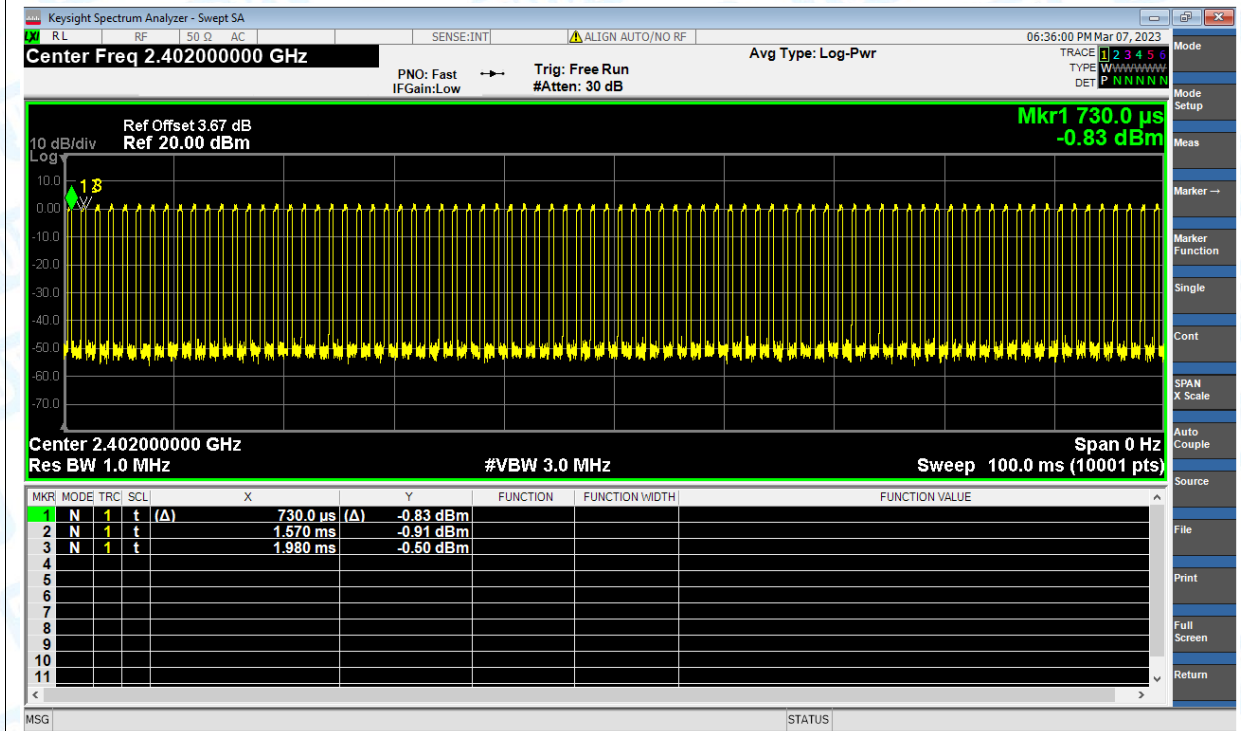
Duty Cycle NVNT 2-DH1 2441MHz Ant1



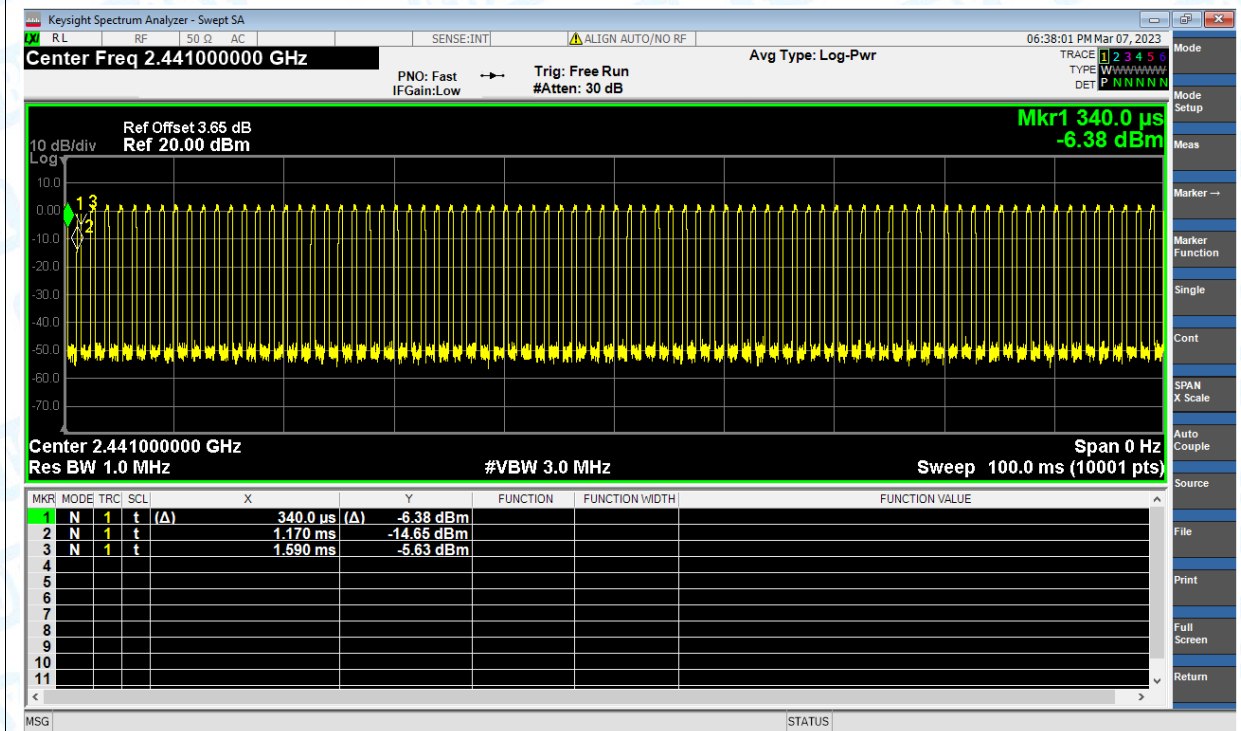
Duty Cycle NVNT 2-DH1 2480MHz Ant1

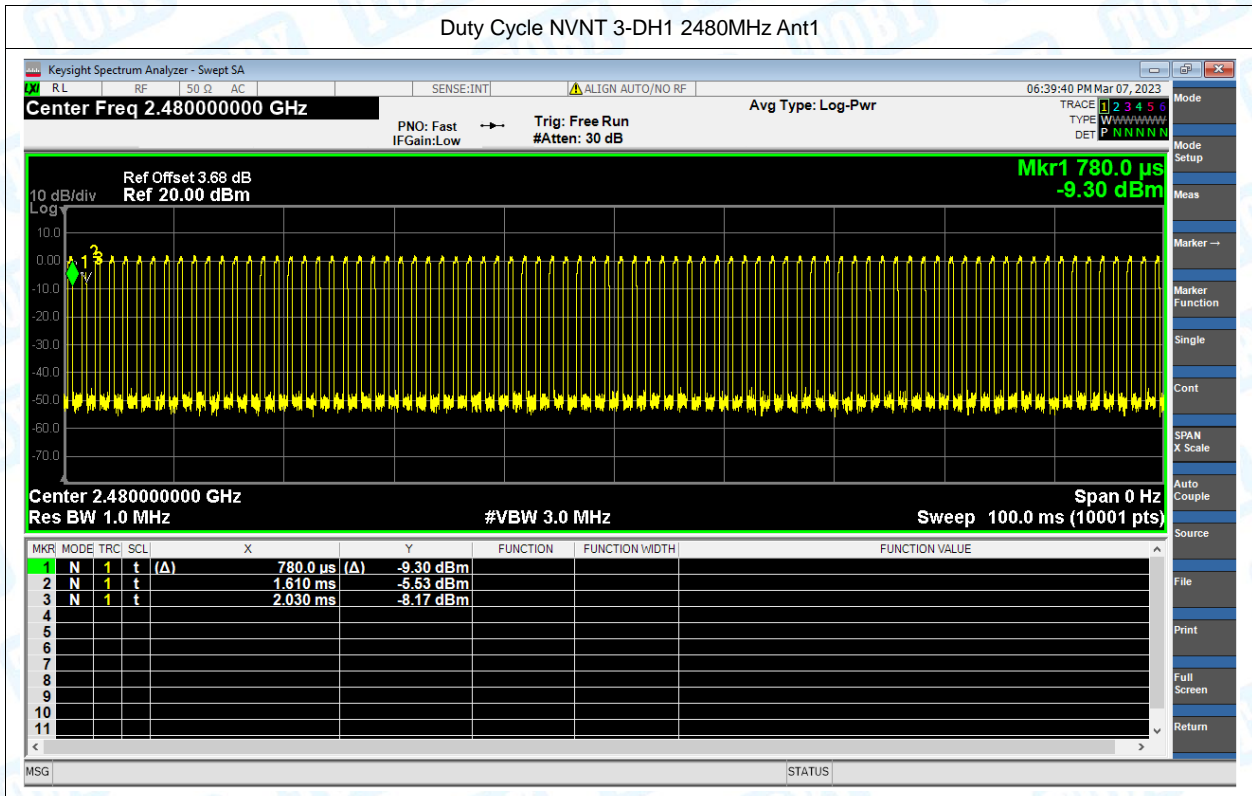


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



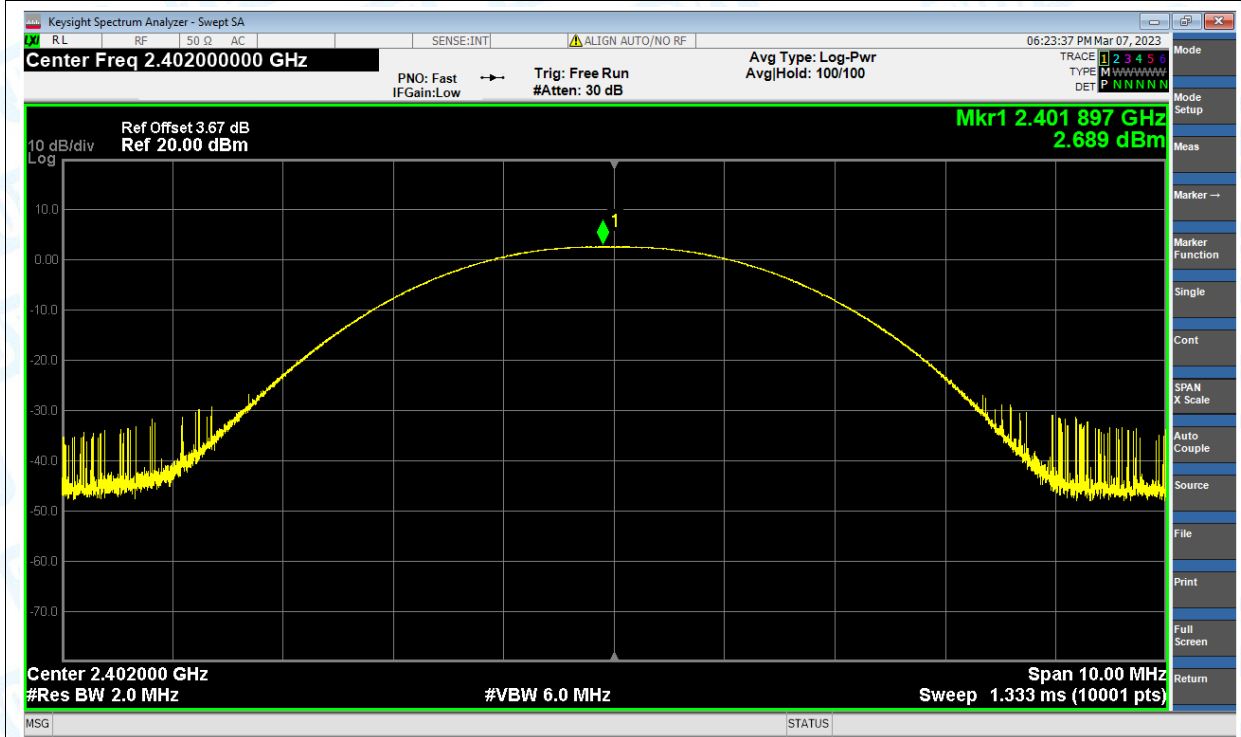


2. Maximum Conducted Output Power

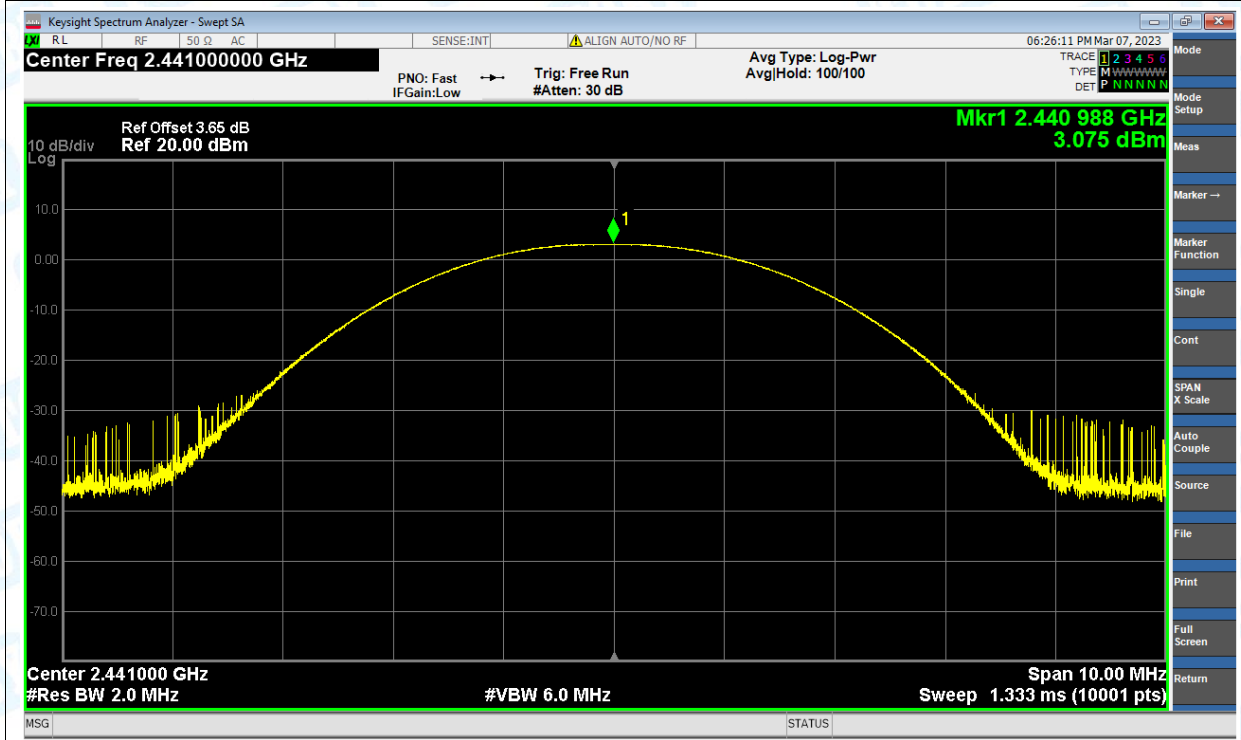
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.689	21	Pass
NVNT	1-DH1	2441	Ant1	3.075	21	Pass
NVNT	1-DH1	2480	Ant1	2.697	21	Pass
NVNT	2-DH1	2402	Ant1	1.795	21	Pass
NVNT	2-DH1	2441	Ant1	2.252	21	Pass
NVNT	2-DH1	2480	Ant1	1.841	21	Pass
NVNT	3-DH1	2402	Ant1	2.336	21	Pass
NVNT	3-DH1	2441	Ant1	2.926	21	Pass
NVNT	3-DH1	2480	Ant1	2.389	21	Pass

Test Graphs

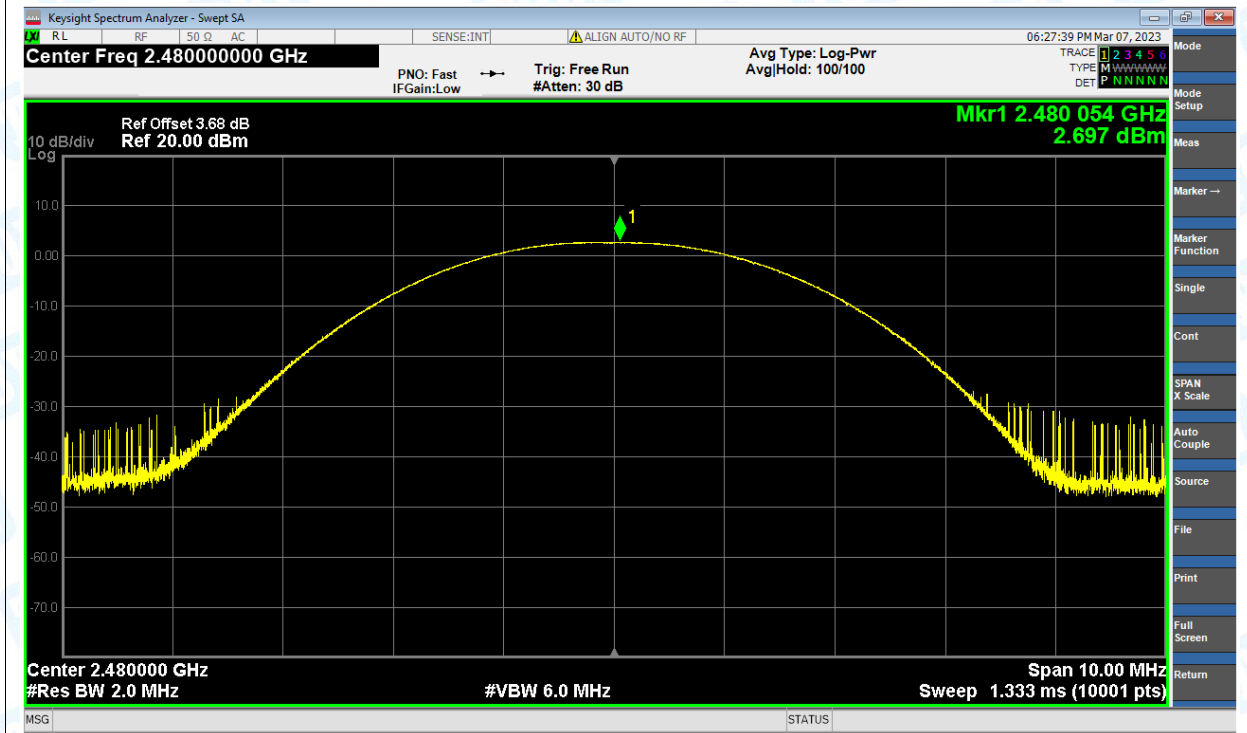
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1



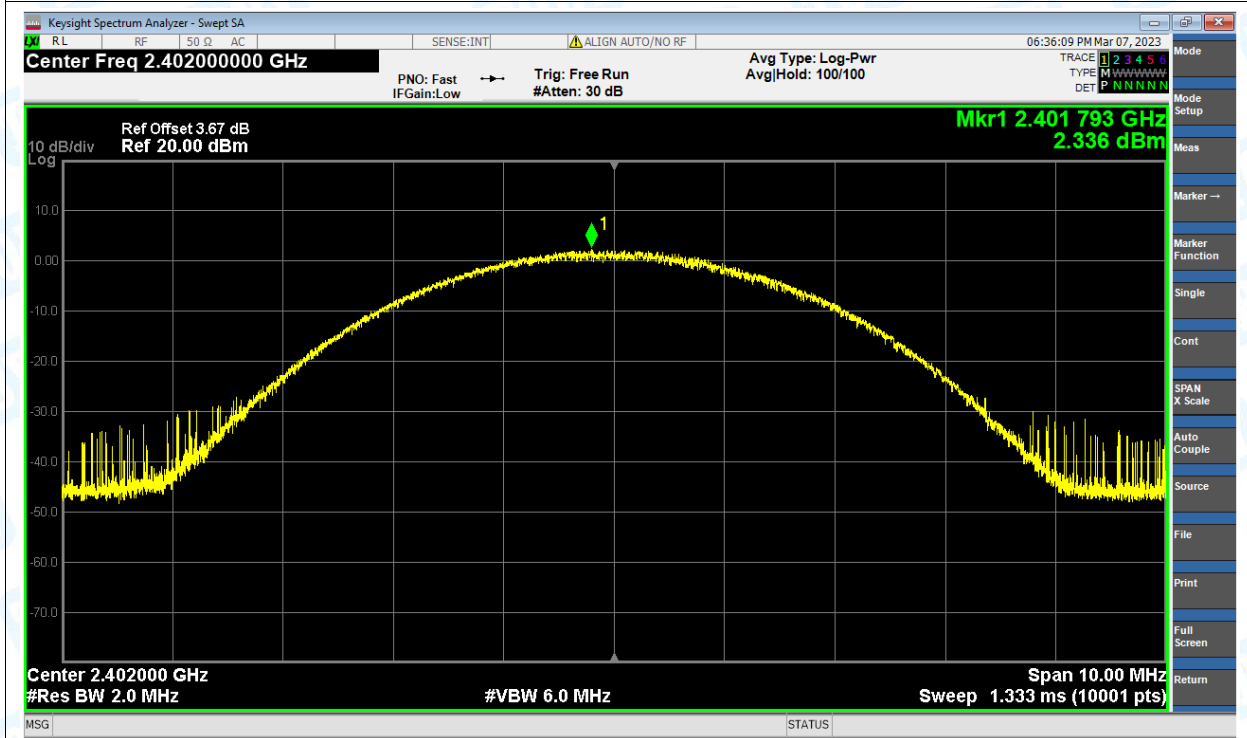
Power NVNT 2-DH1 2441MHz Ant1



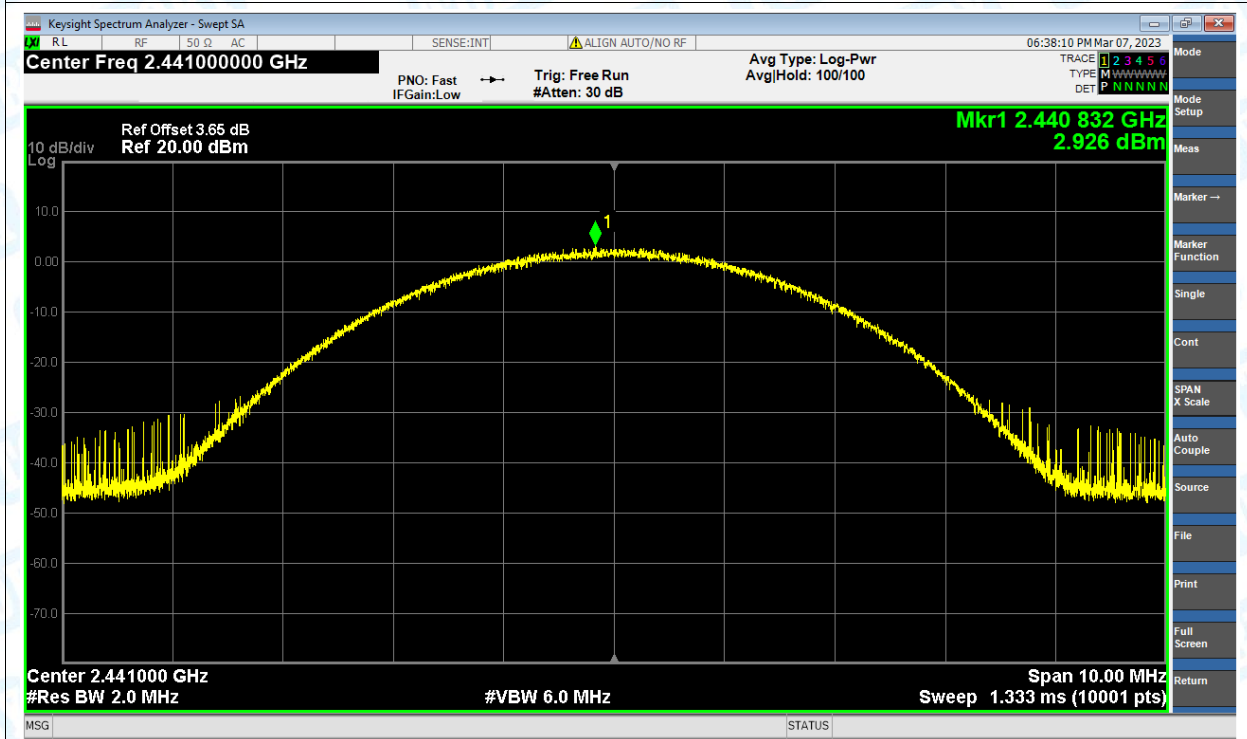
Power NVNT 2-DH1 2480MHz Ant1

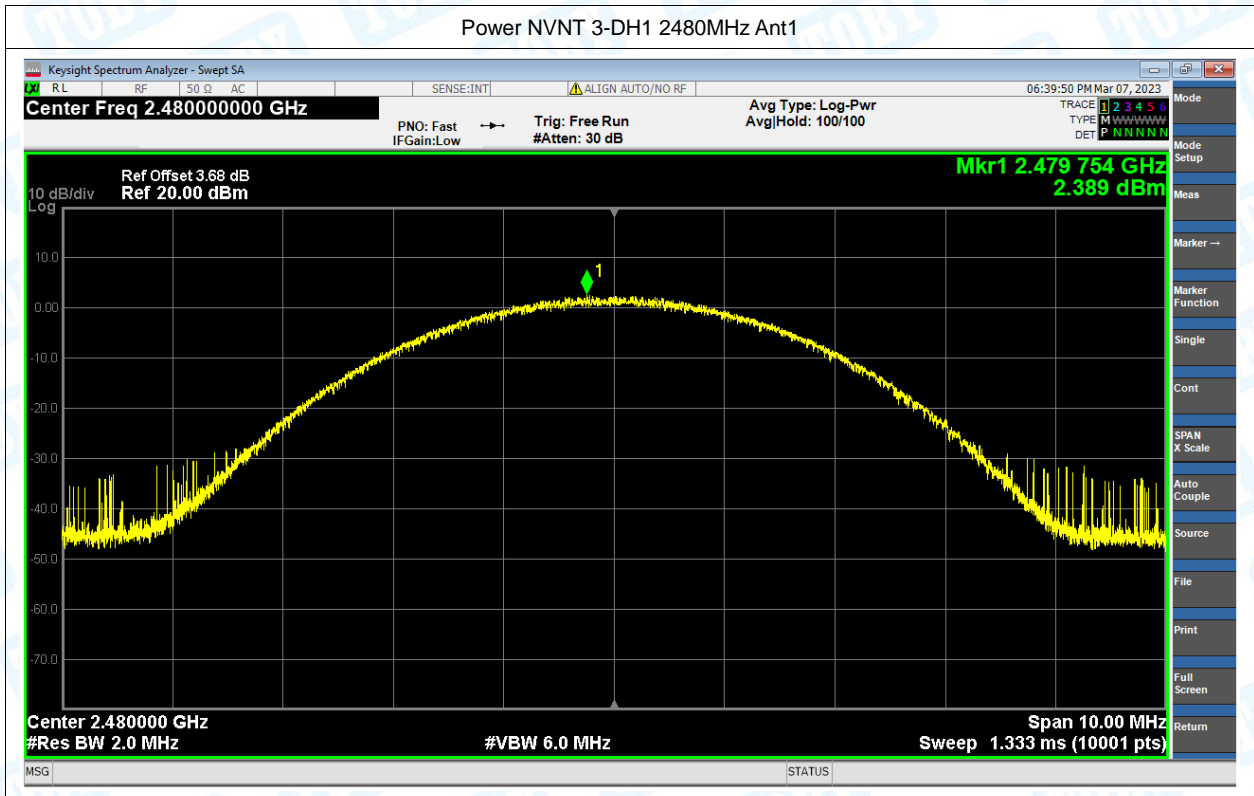


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



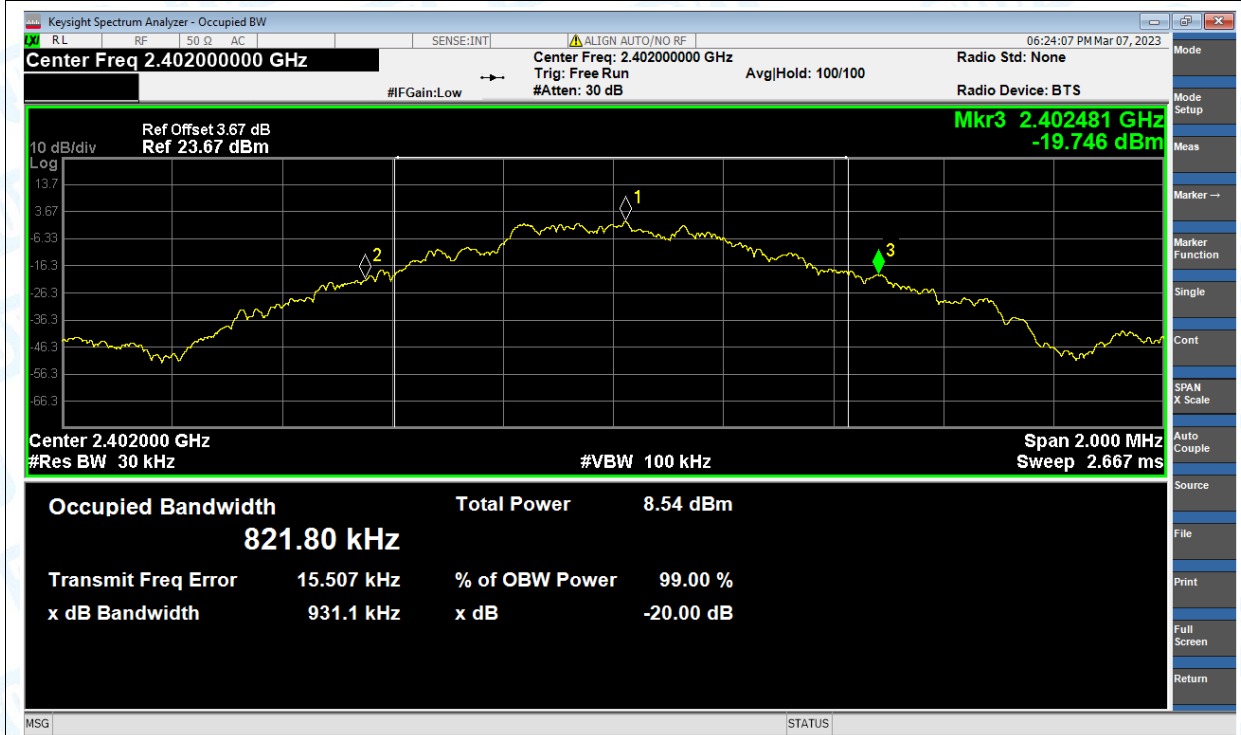


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.93	----	Pass
NVNT	1-DH1	2441	Ant1	0.93	----	Pass
NVNT	1-DH1	2480	Ant1	0.92	----	Pass
NVNT	2-DH1	2402	Ant1	1.27	----	Pass
NVNT	2-DH1	2441	Ant1	1.27	----	Pass
NVNT	2-DH1	2480	Ant1	1.25	----	Pass
NVNT	3-DH1	2402	Ant1	1.22	----	Pass
NVNT	3-DH1	2441	Ant1	1.23	----	Pass
NVNT	3-DH1	2480	Ant1	1.22	----	Pass

Test Graphs

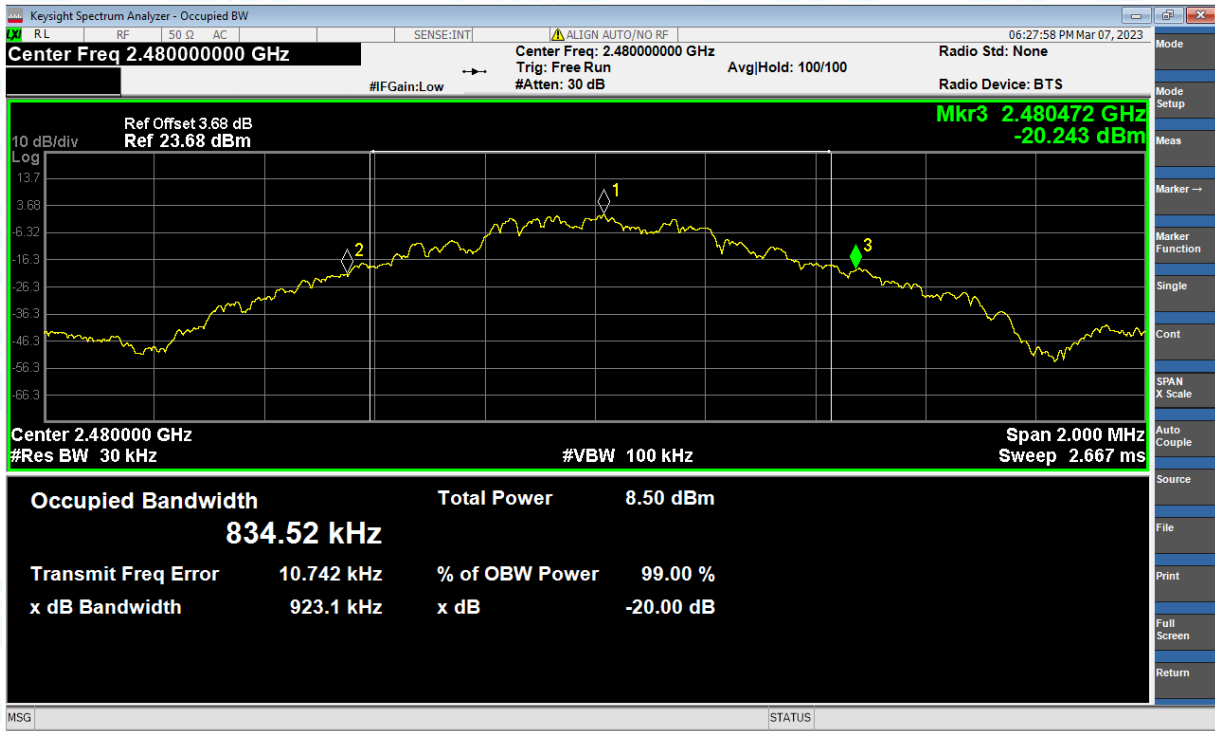
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



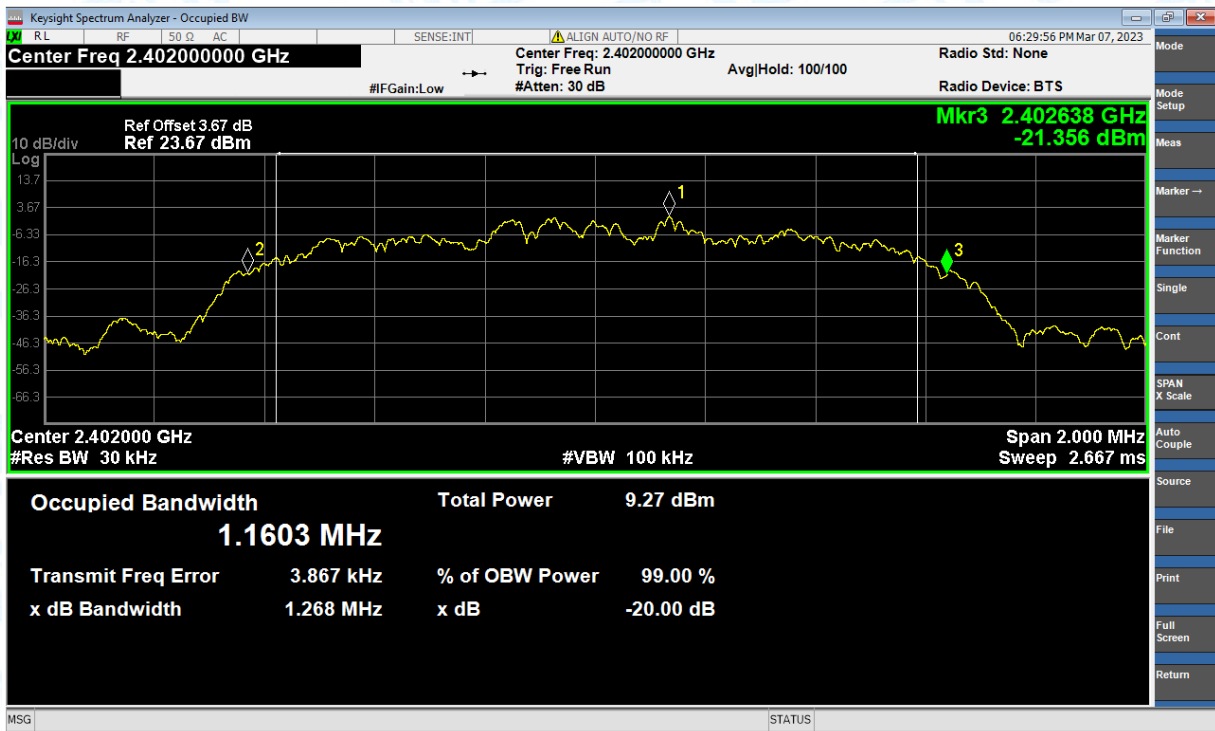
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



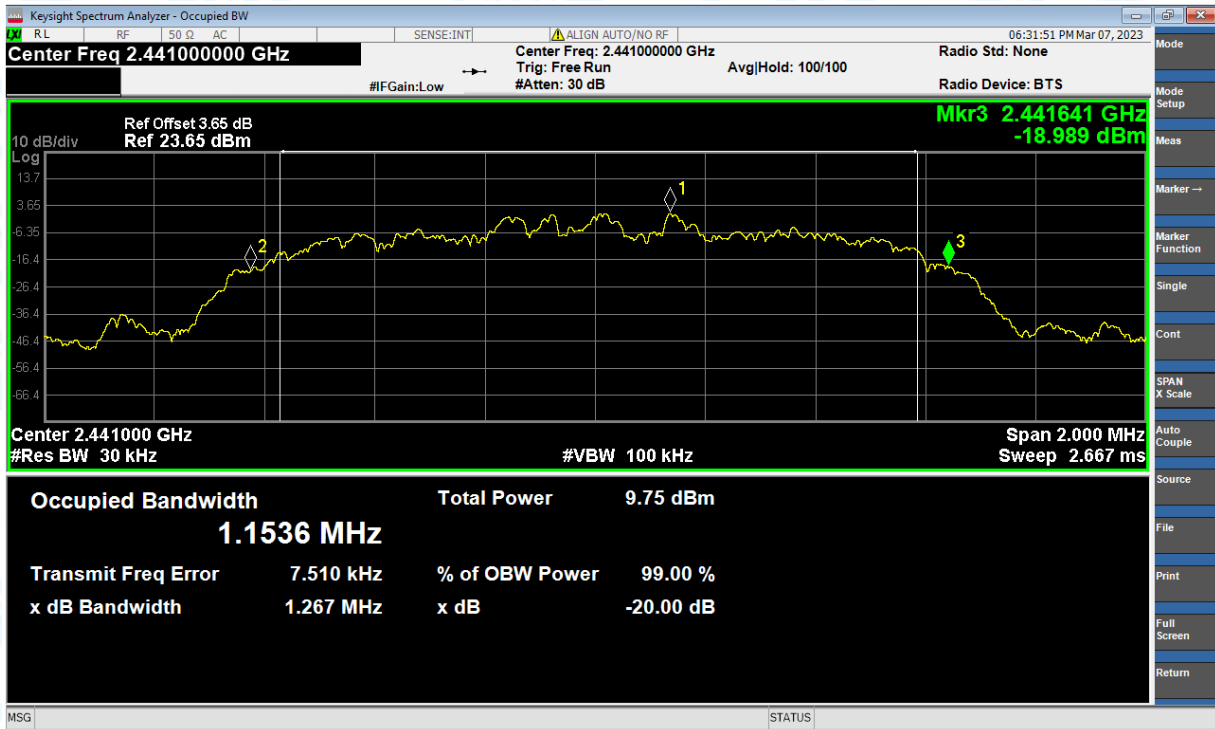
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



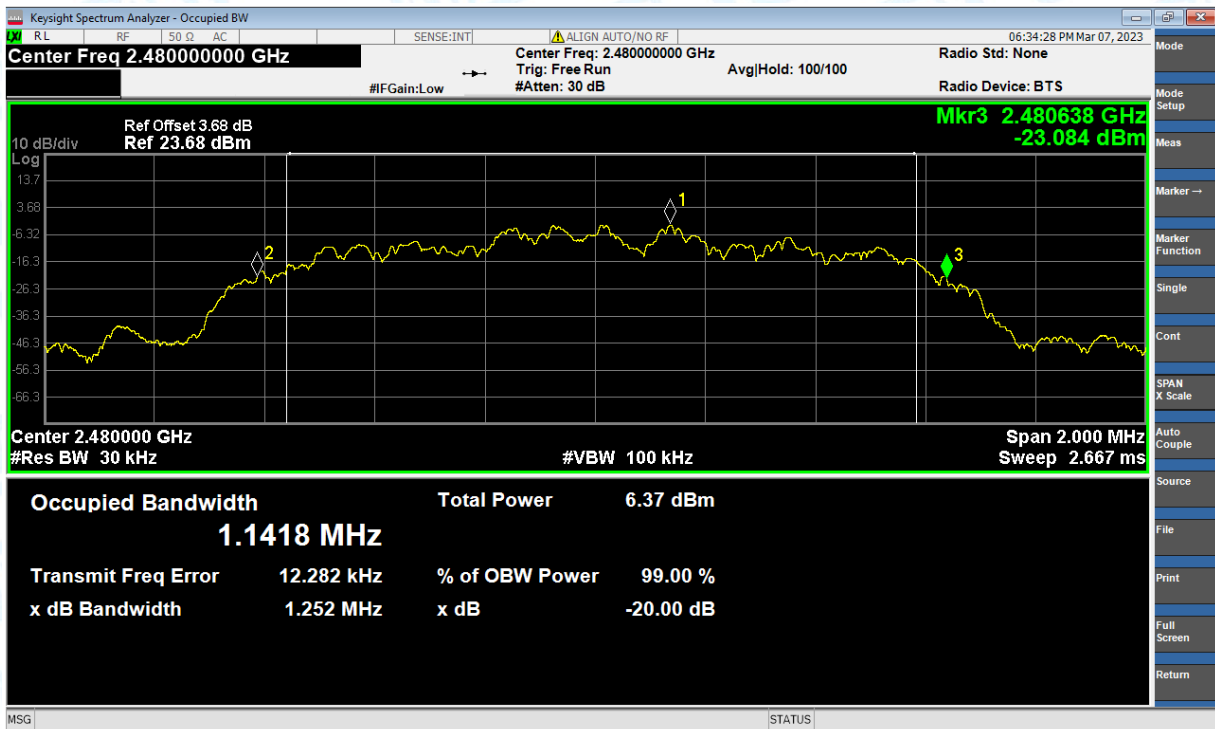
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



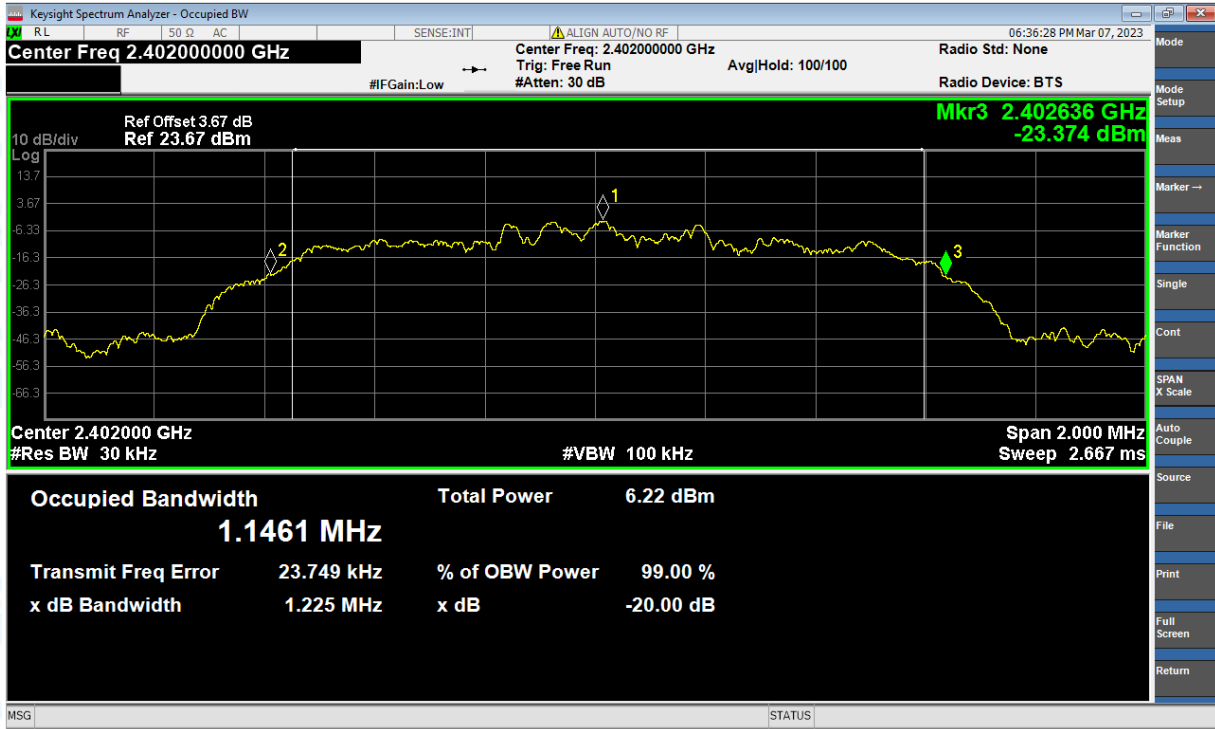
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



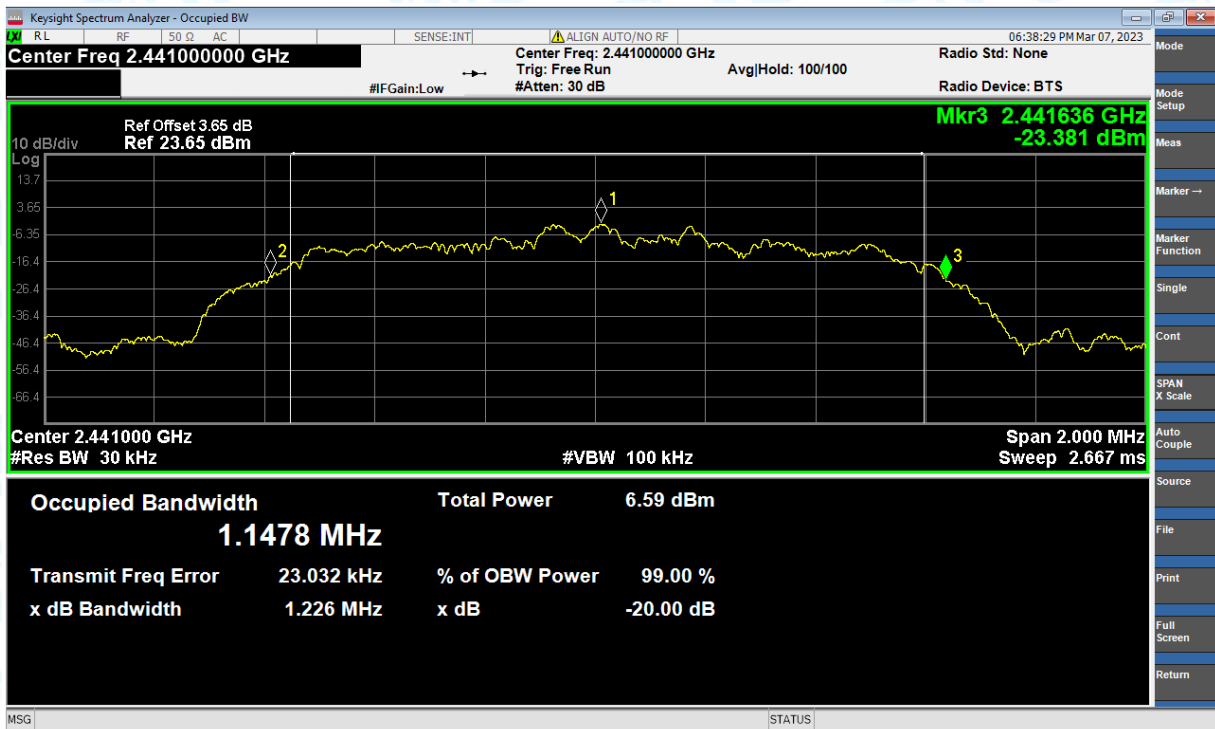
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

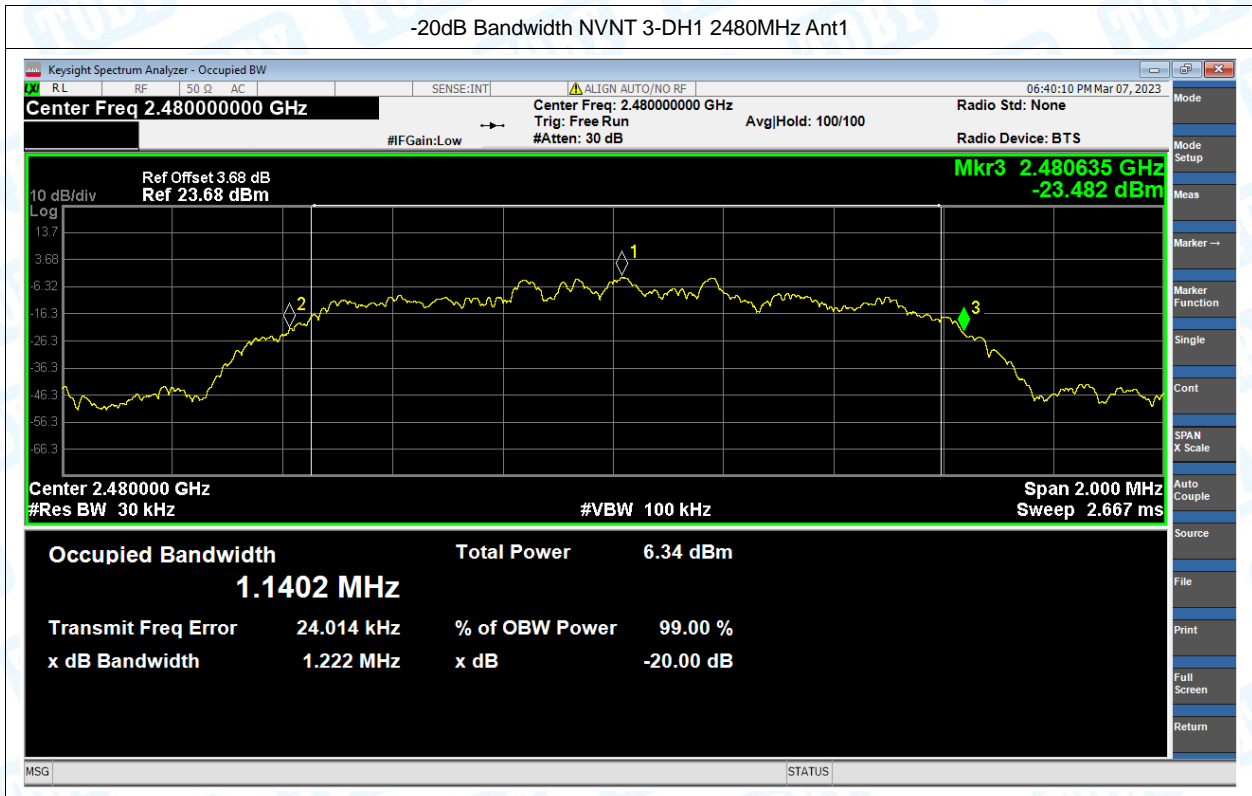


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



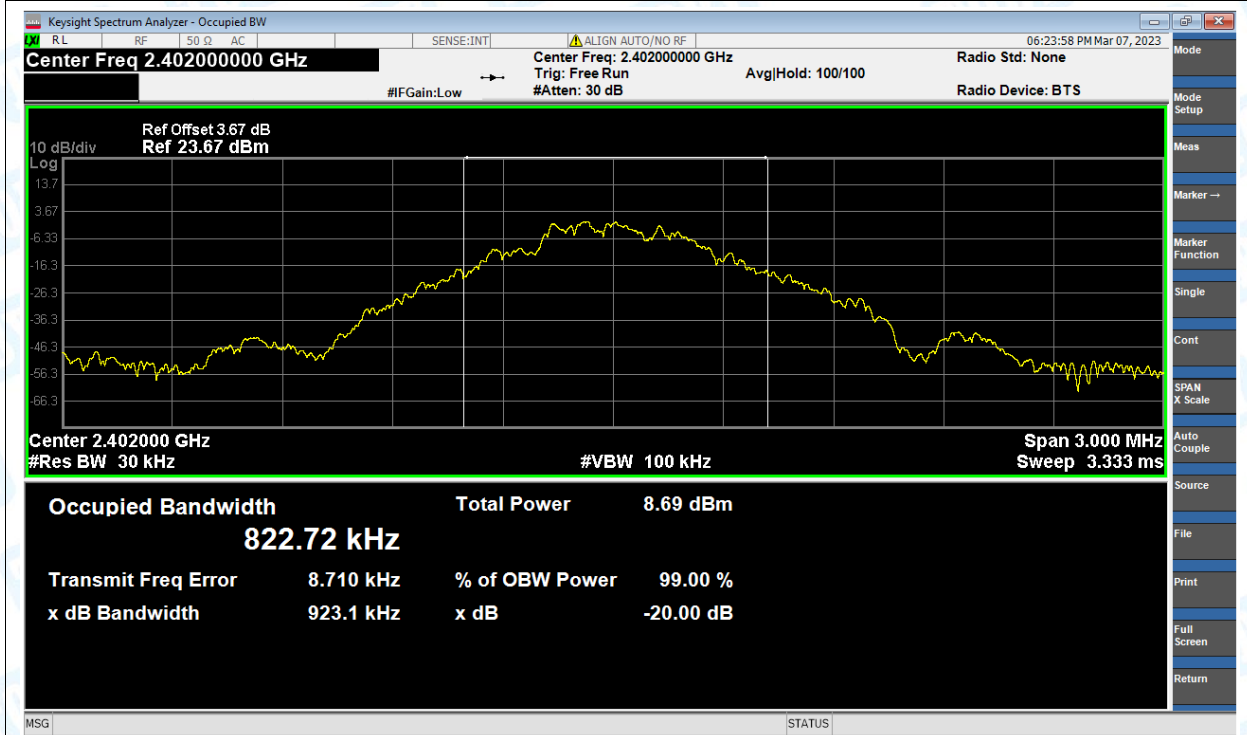


4. Occupied Channel Bandwidth

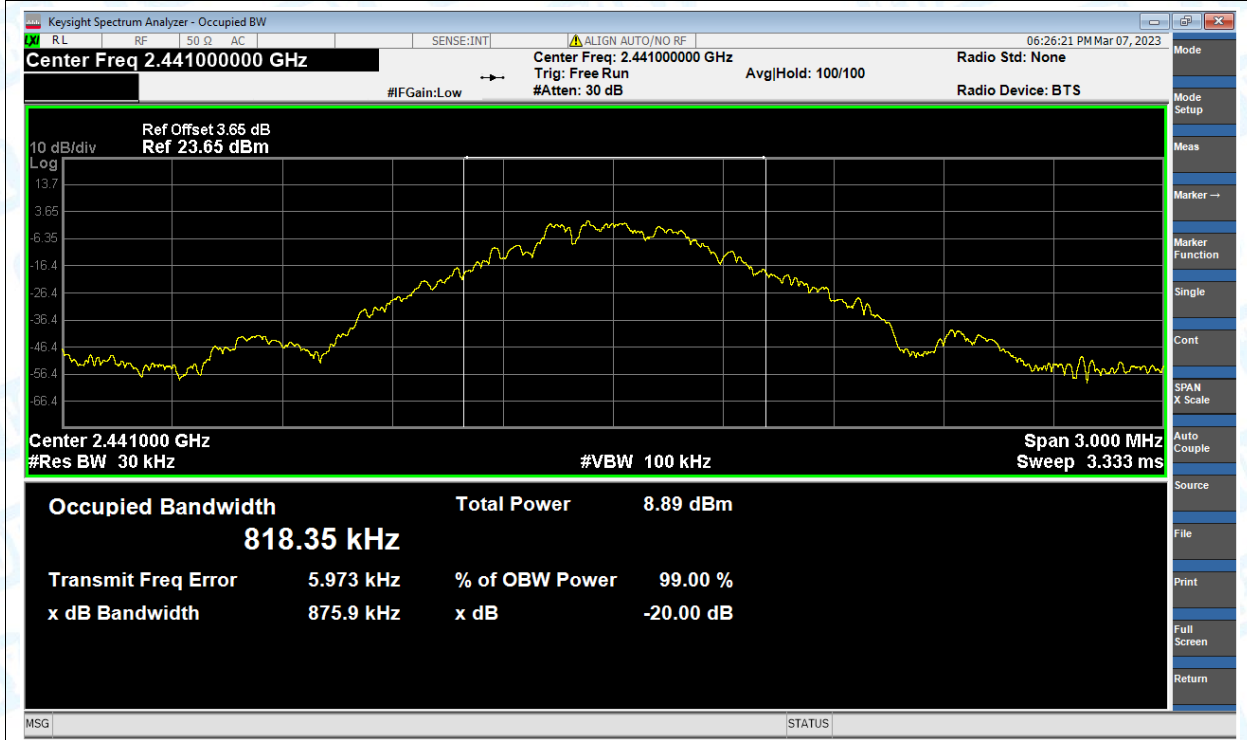
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.823
NVNT	1-DH1	2441	Ant1	0.818
NVNT	1-DH1	2480	Ant1	0.825
NVNT	2-DH1	2402	Ant1	1.162
NVNT	2-DH1	2441	Ant1	1.153
NVNT	2-DH1	2480	Ant1	1.154
NVNT	3-DH1	2402	Ant1	1.135
NVNT	3-DH1	2441	Ant1	1.136
NVNT	3-DH1	2480	Ant1	1.143

Test Graphs

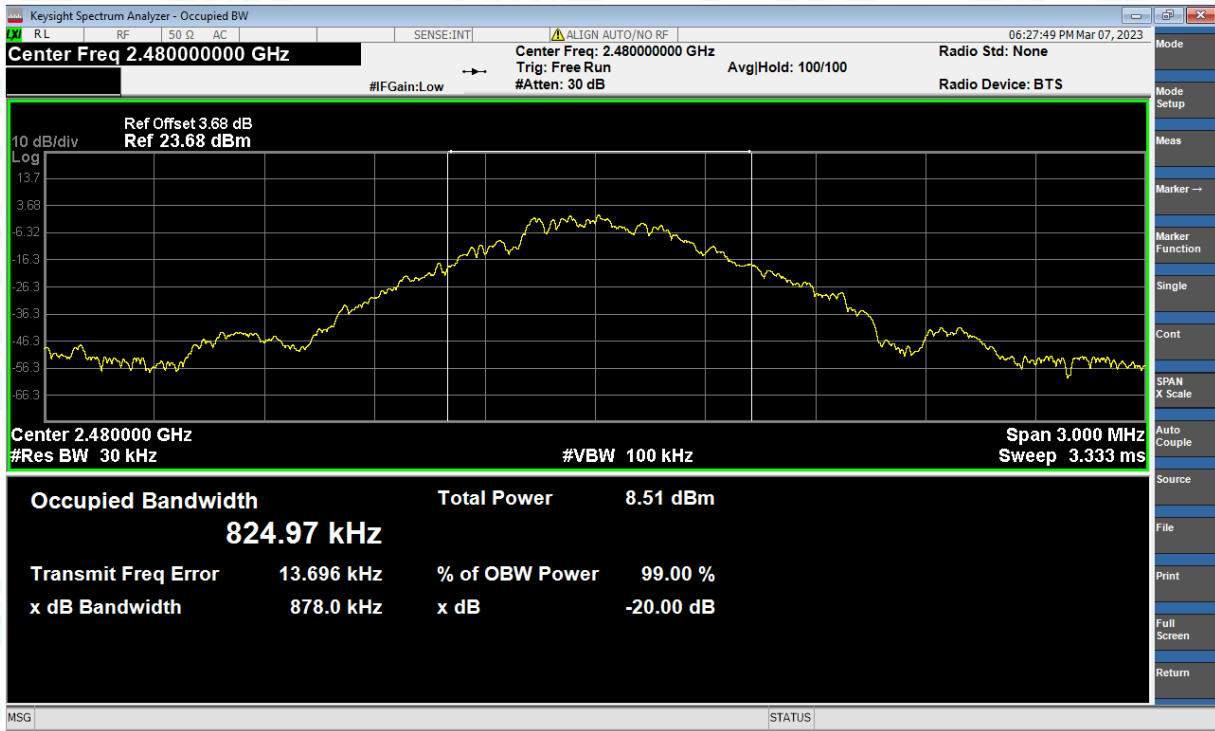
OBW NVNT 1-DH1 2402MHz Ant1



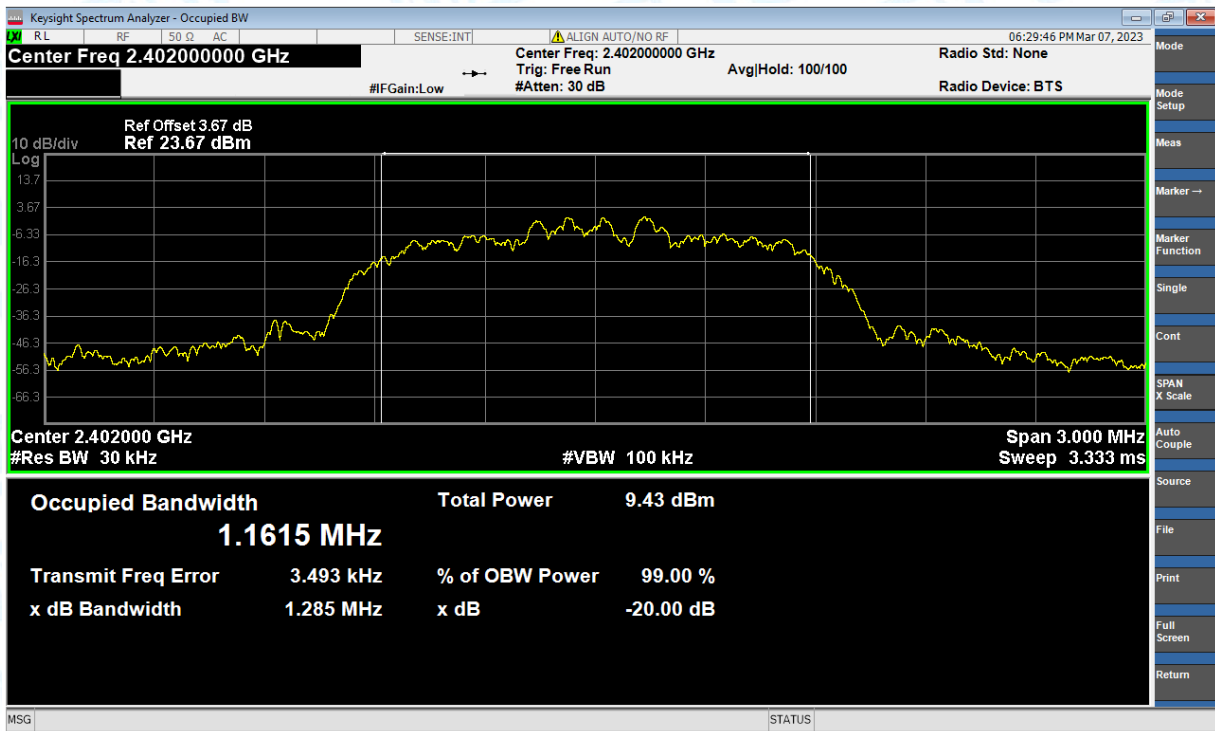
OBW NVNT 1-DH1 2441MHz Ant1



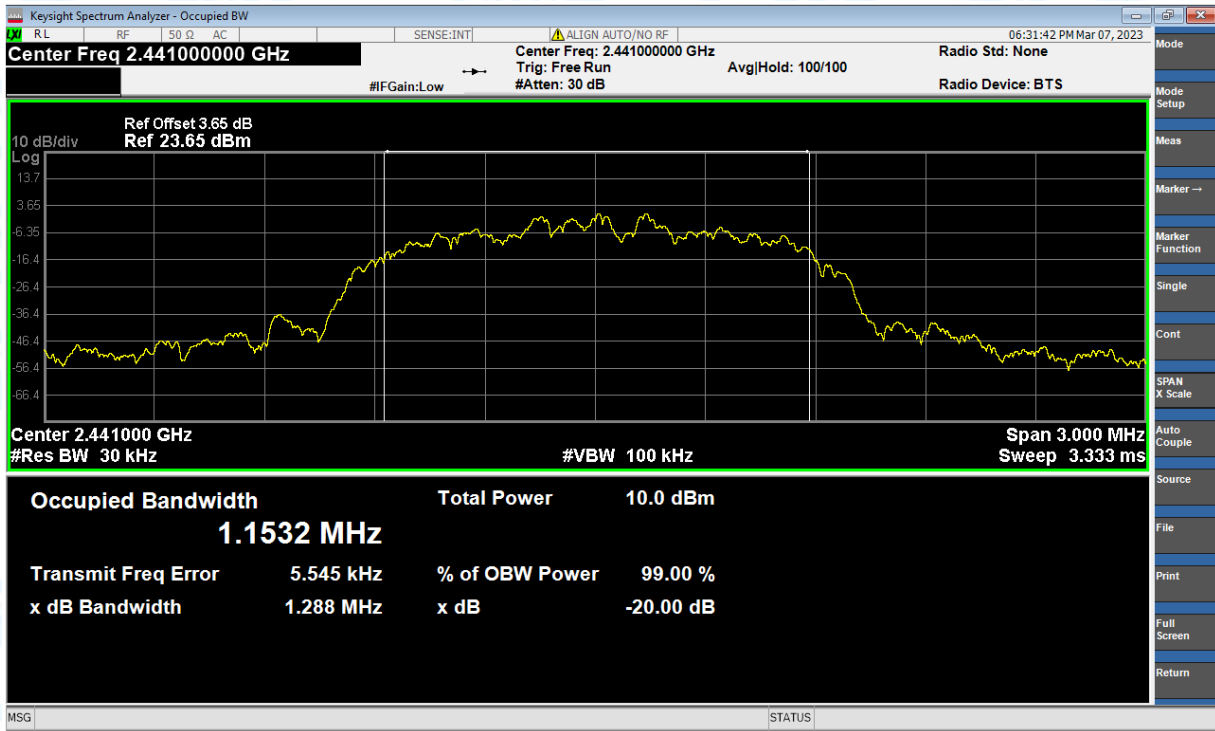
OBW NVNT 1-DH1 2480MHz Ant1



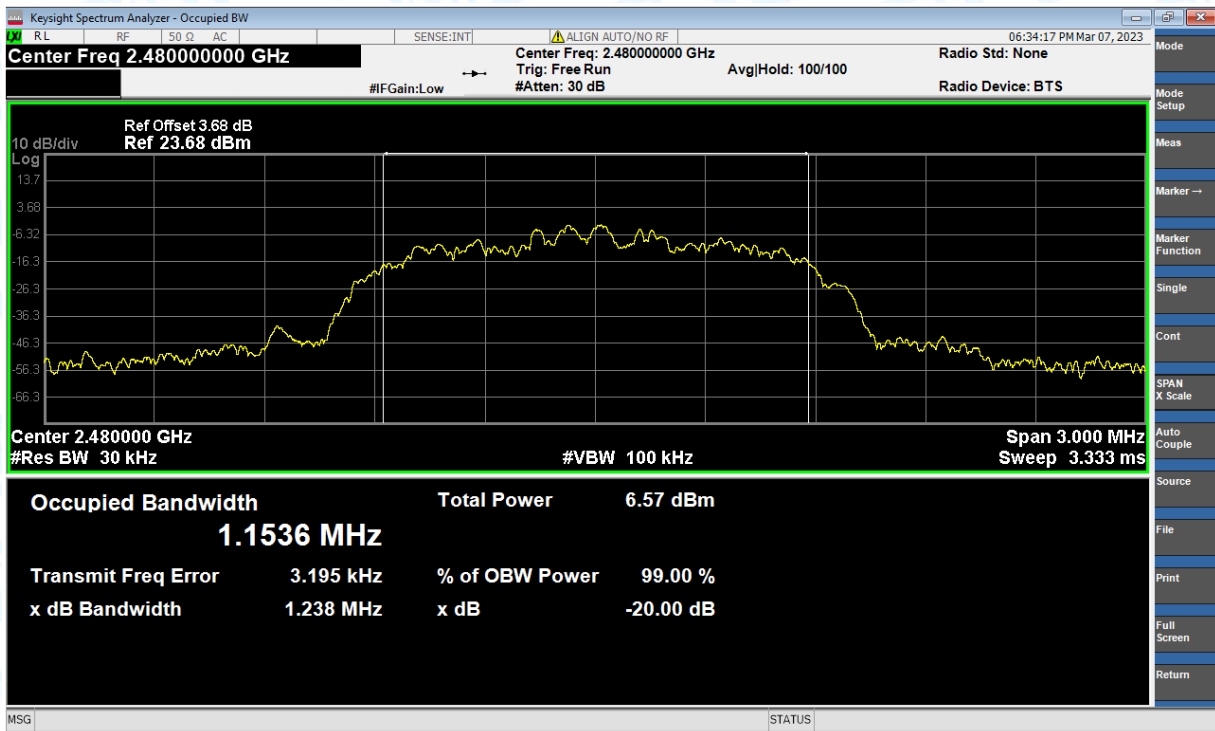
OBW NVNT 2-DH1 2402MHz Ant1



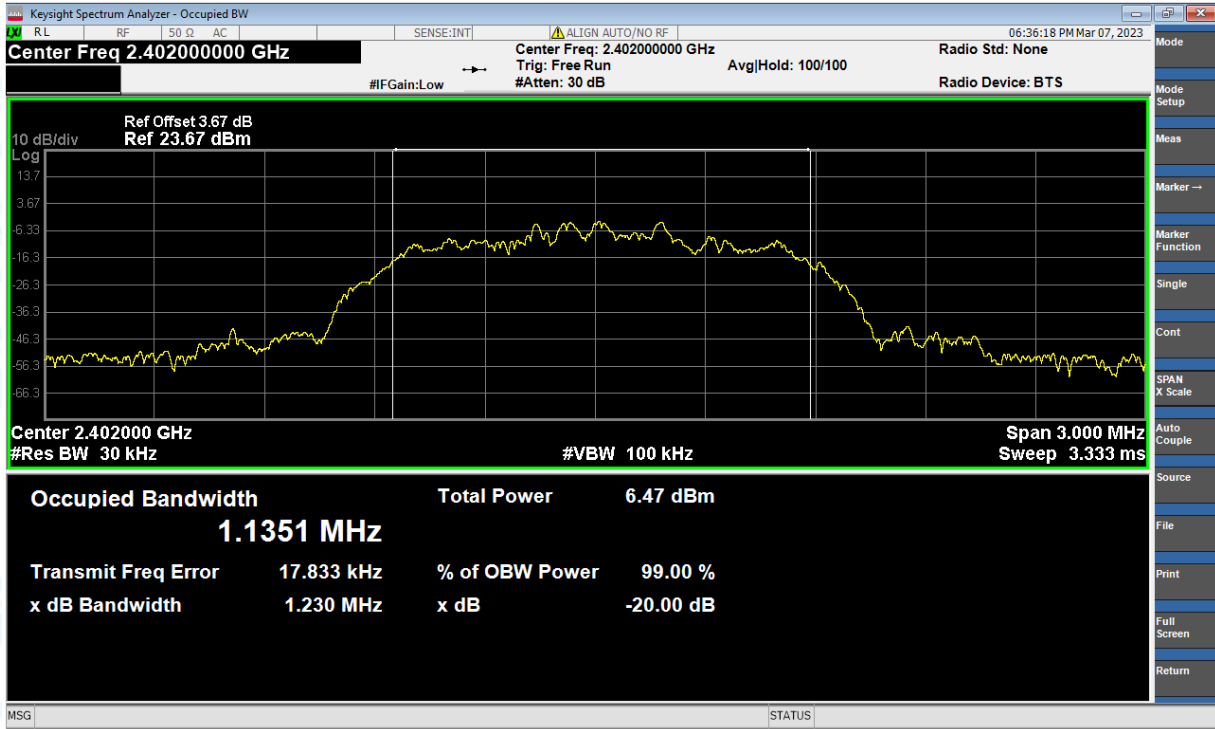
OBW NVNT 2-DH1 2441MHz Ant1



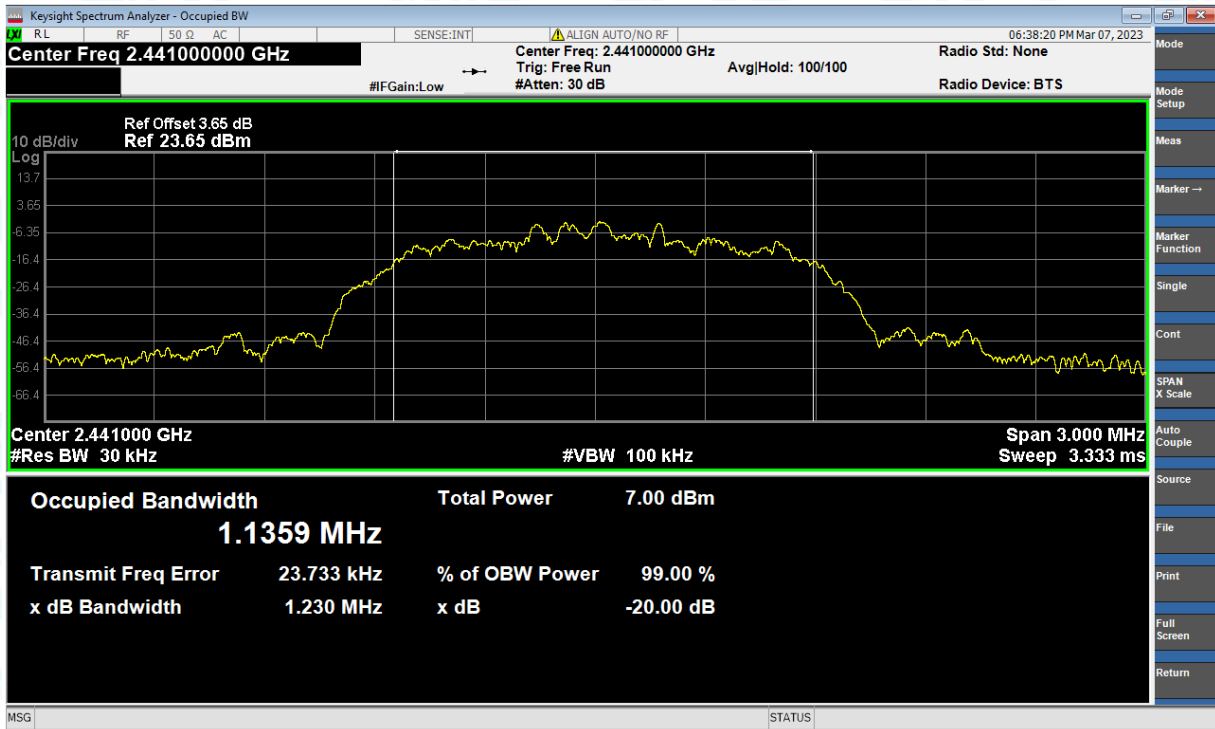
OBW NVNT 2-DH1 2480MHz Ant1

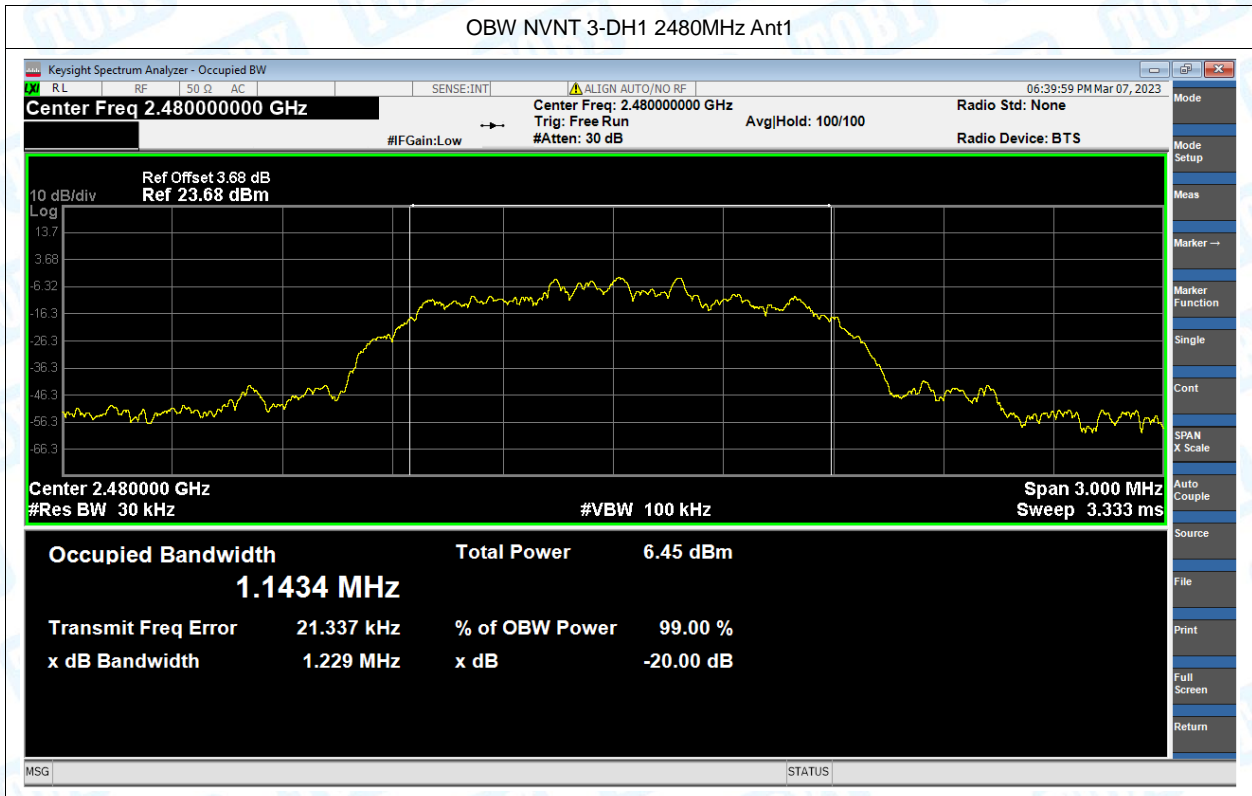


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1





5. Band Edge

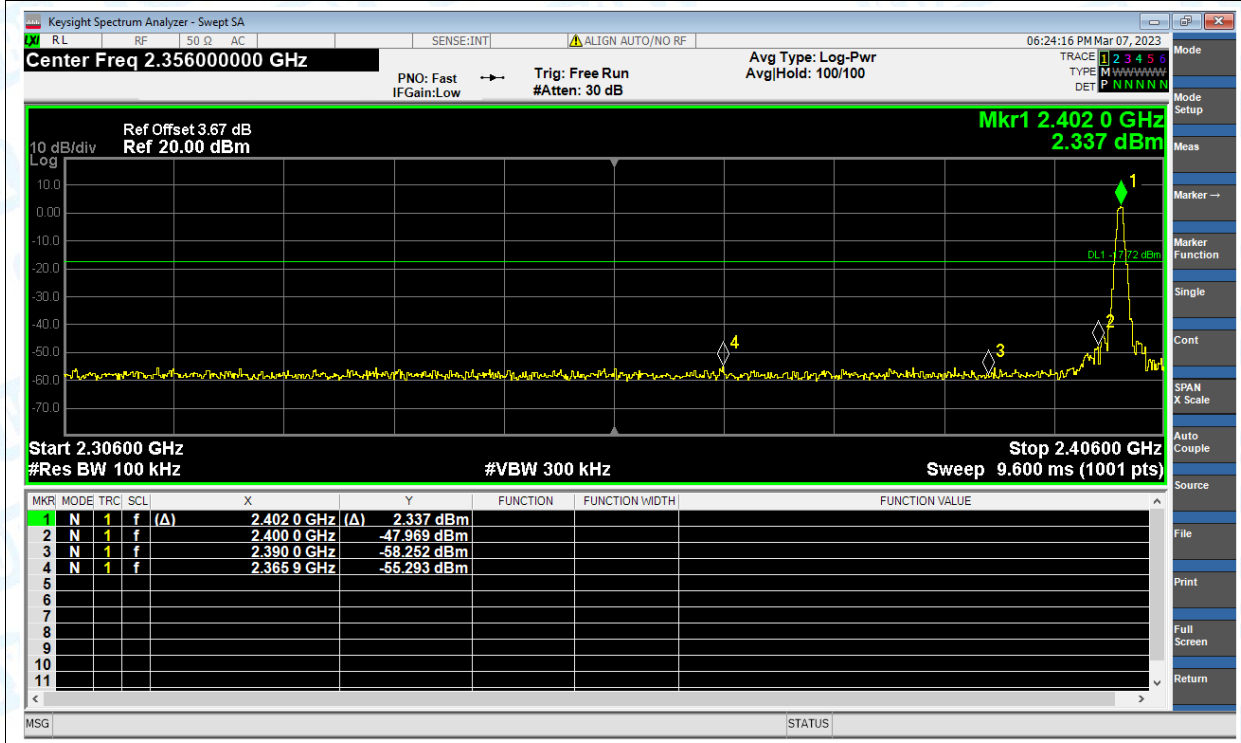
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.57	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-56.02	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-57.66	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.63	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.56	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-55.05	-20	Pass

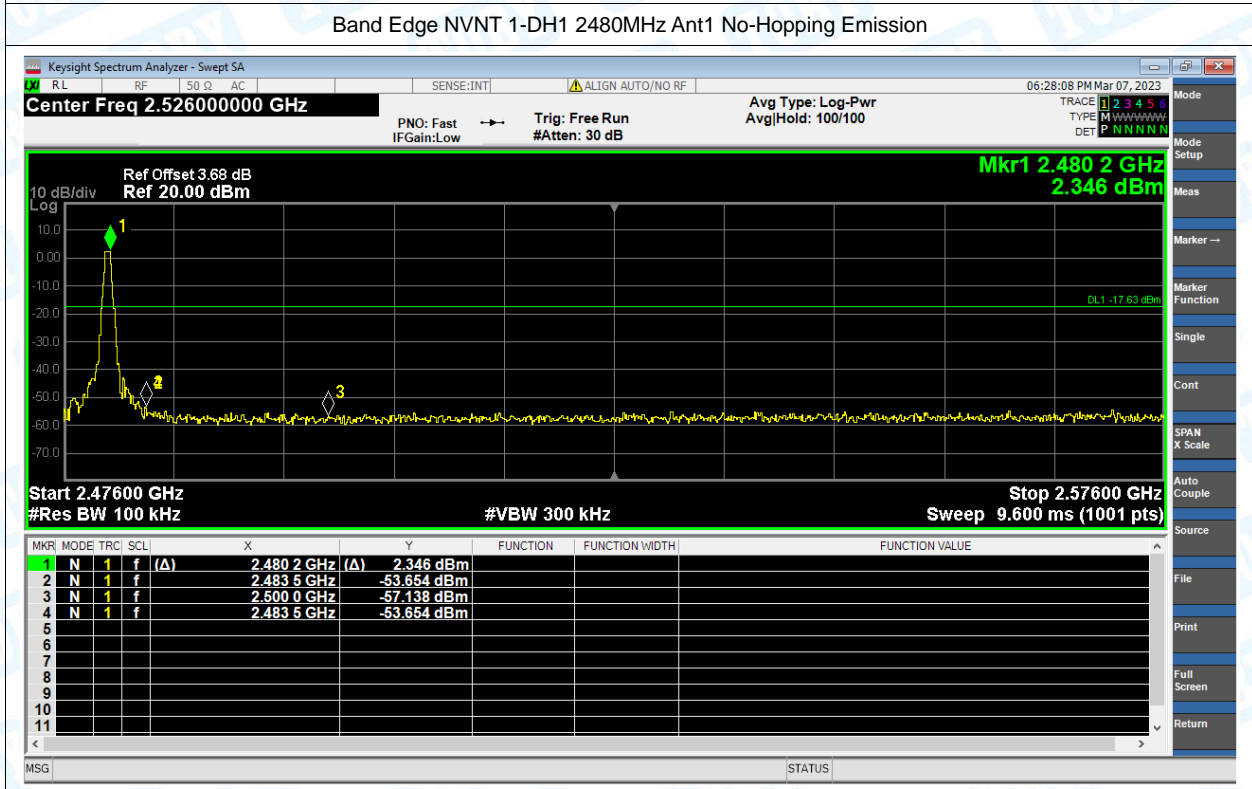
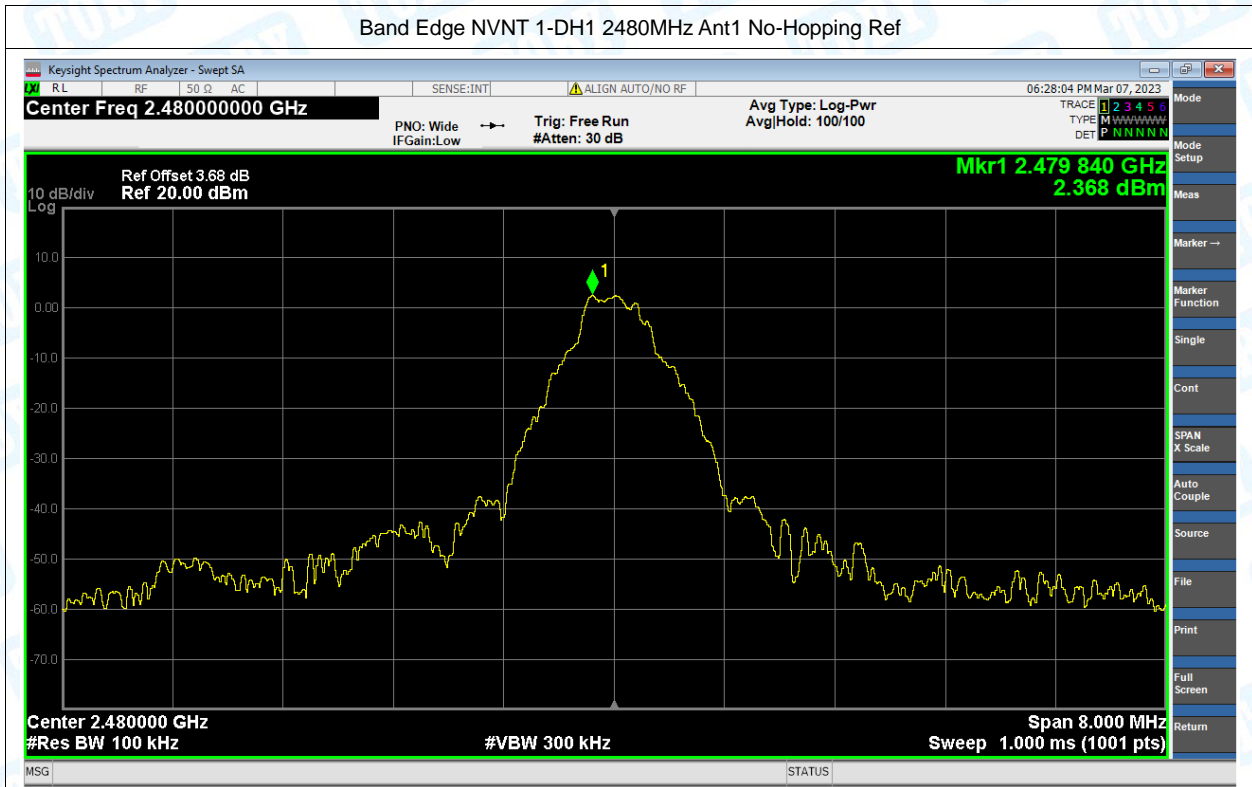
Test Graphs

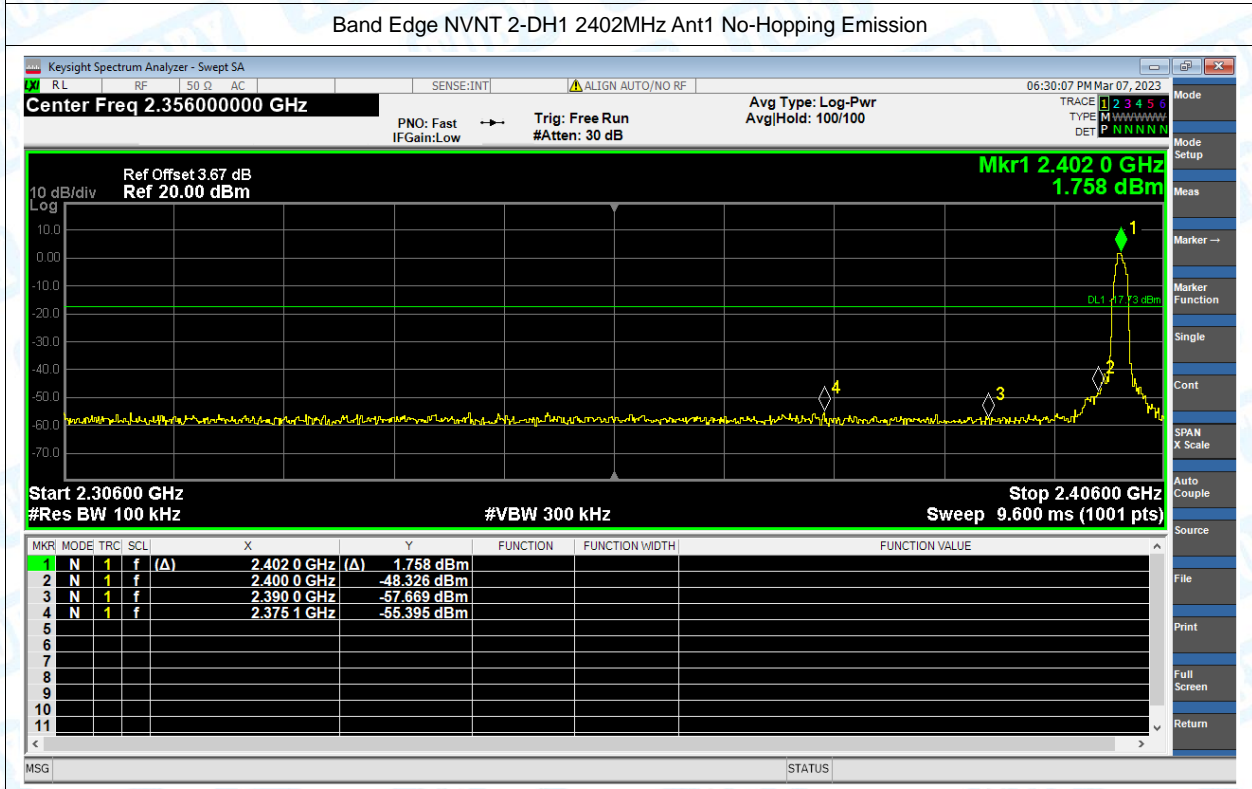
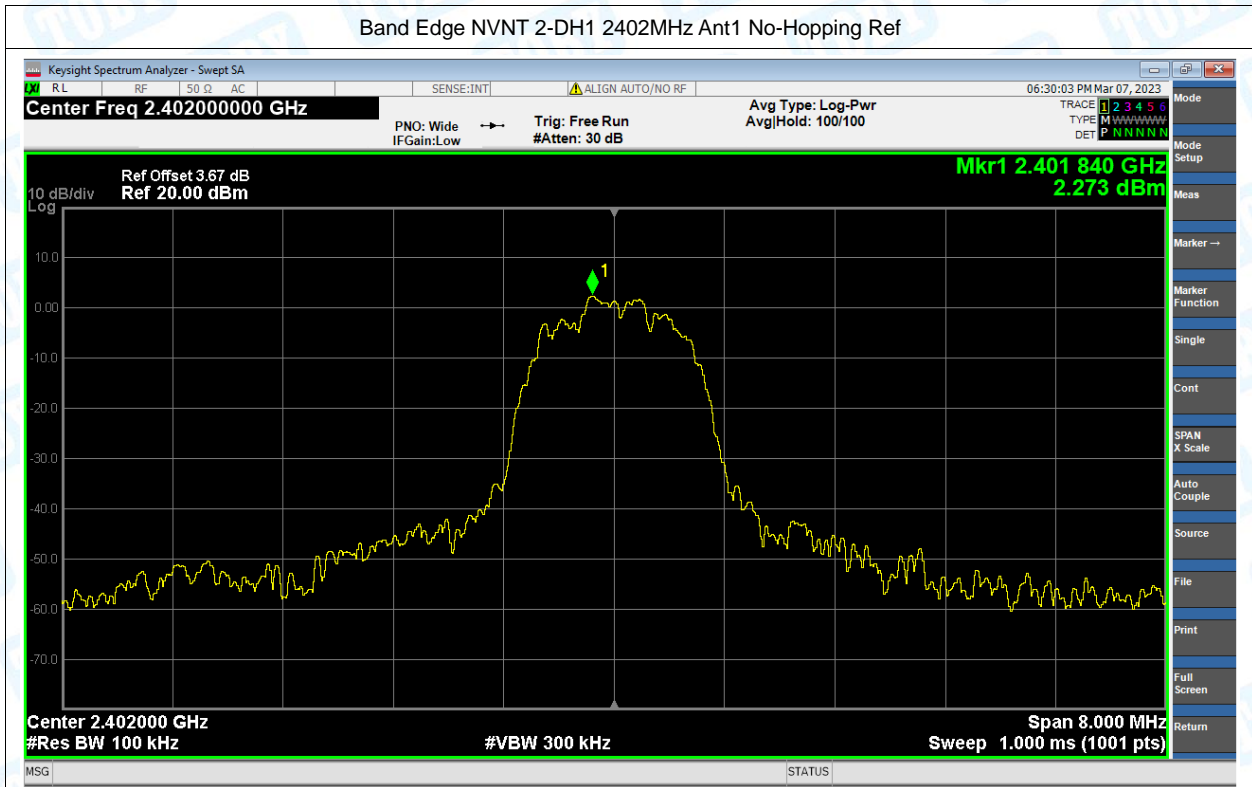
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

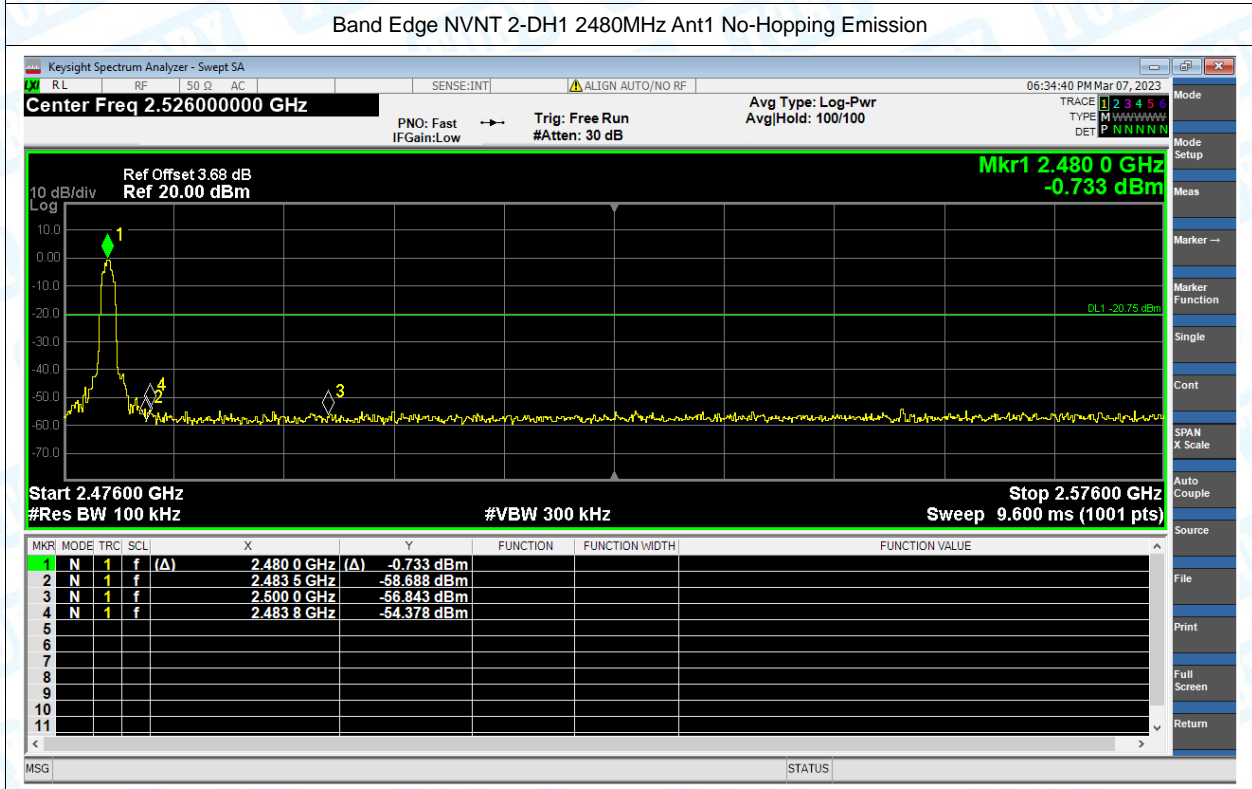
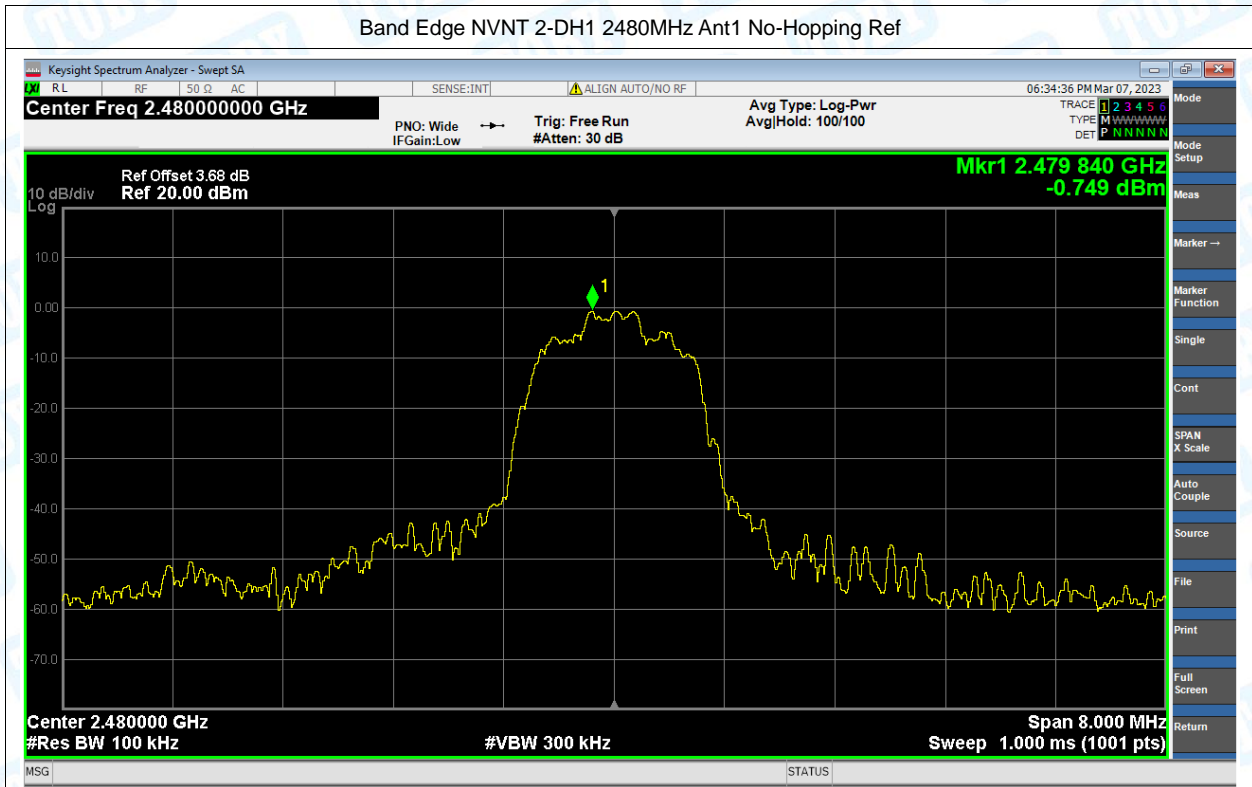


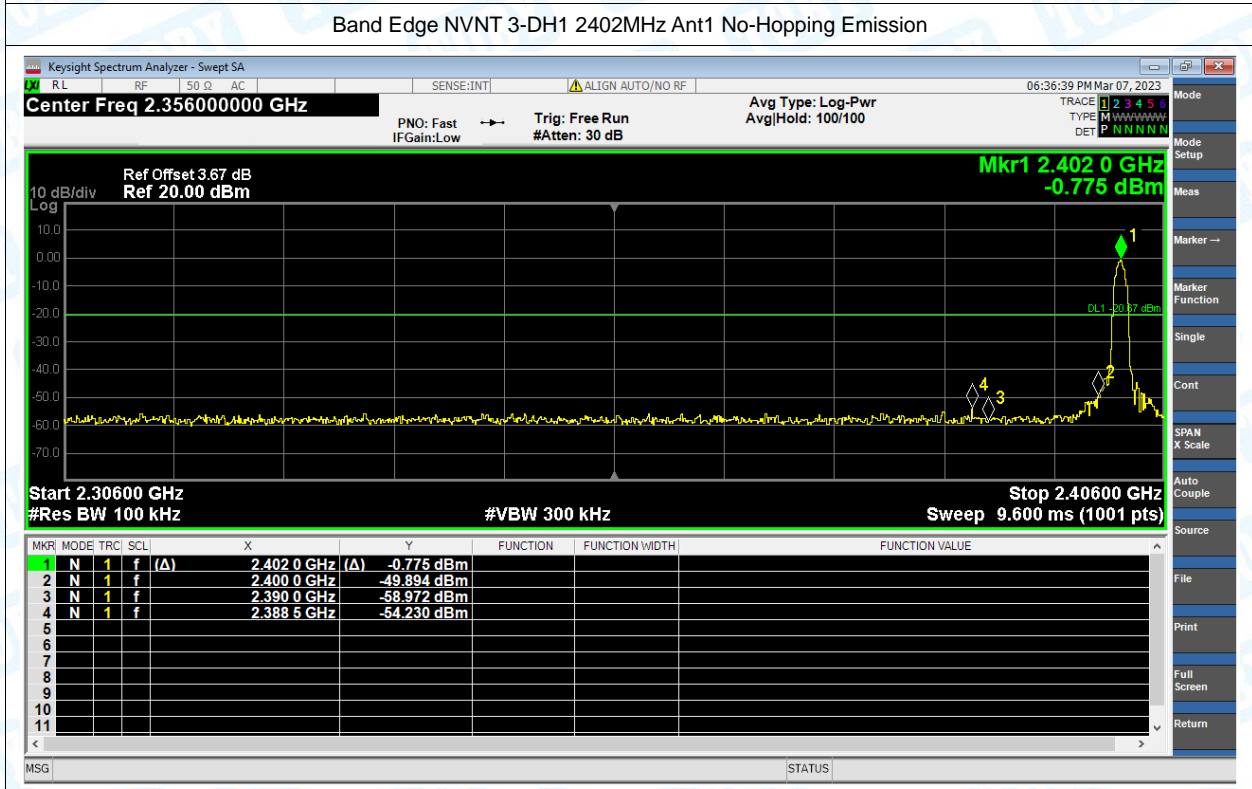
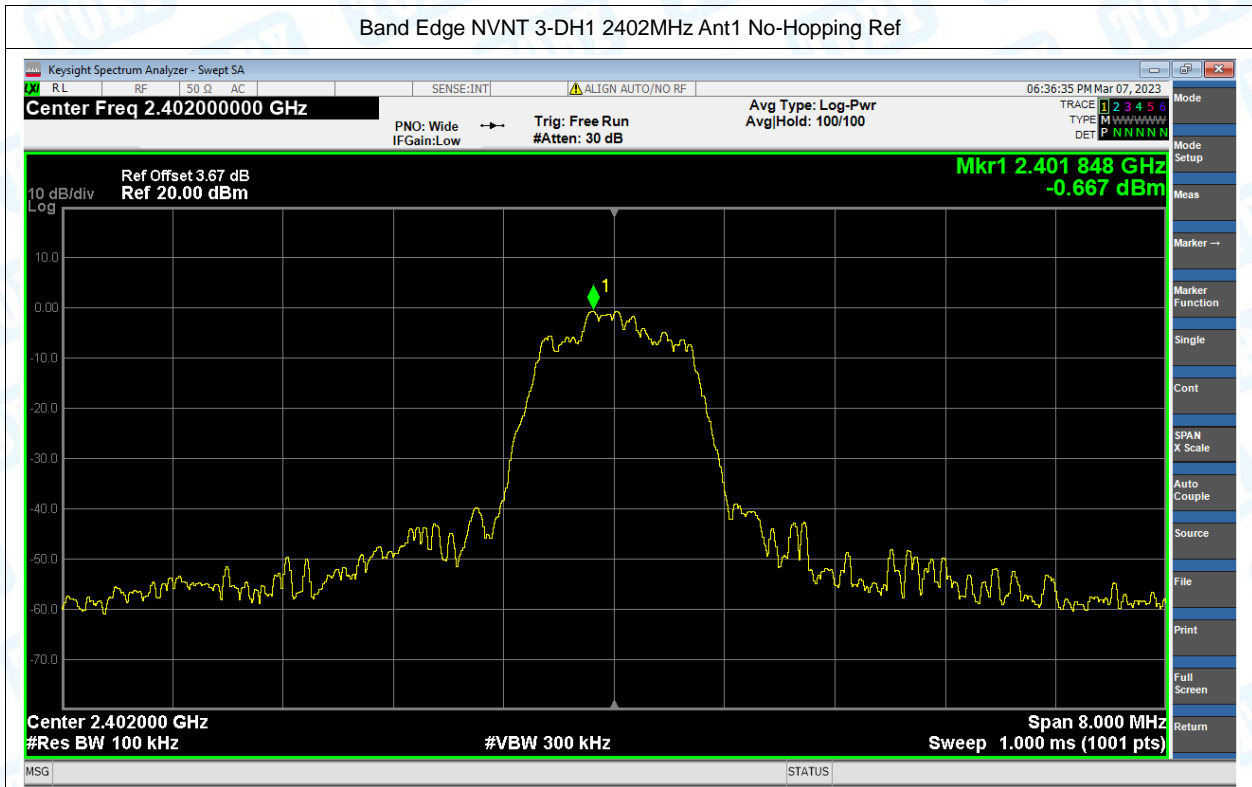
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

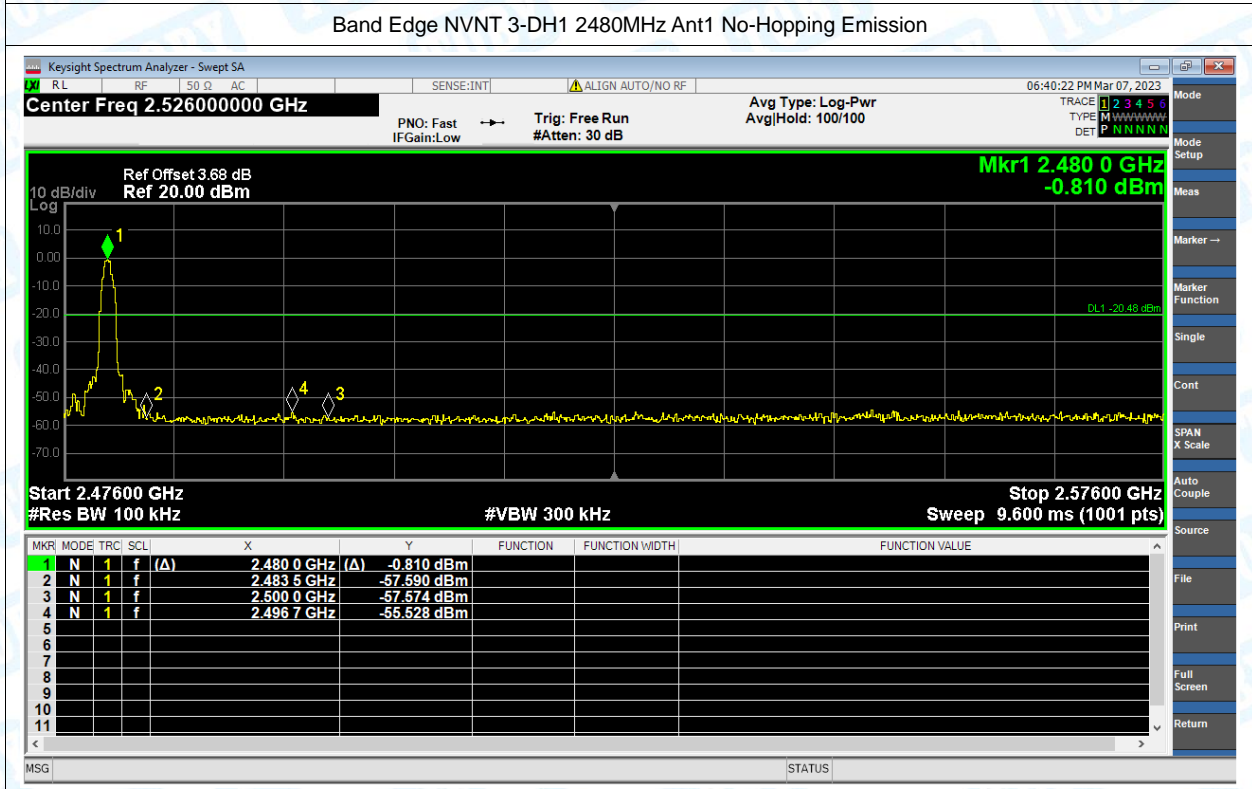
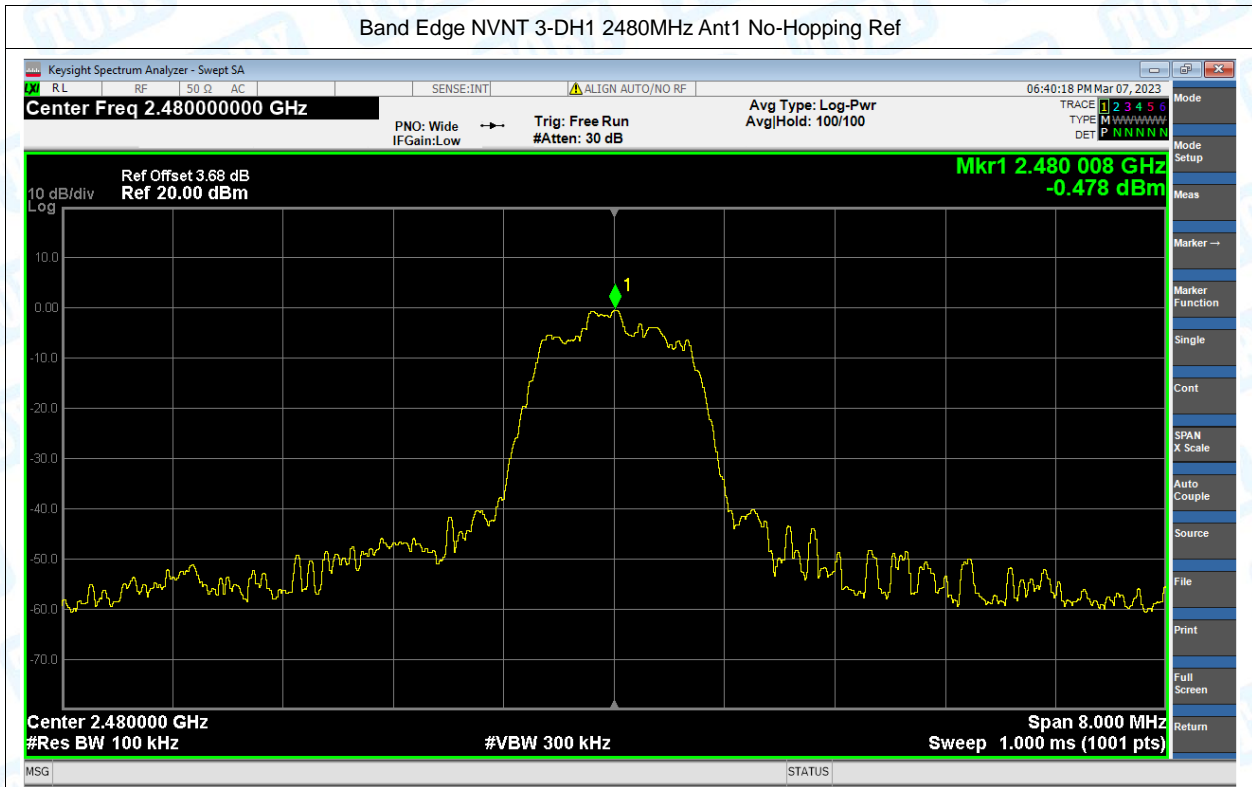










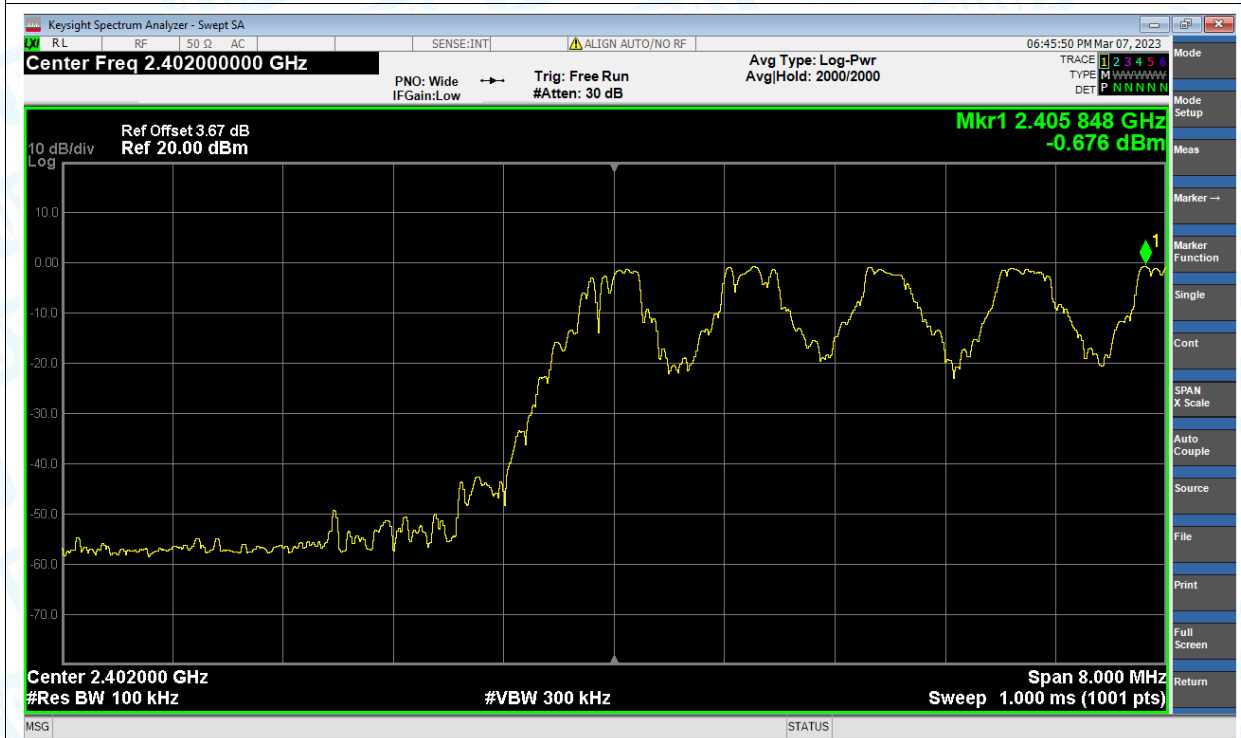


6. Band Edge(Hopping)

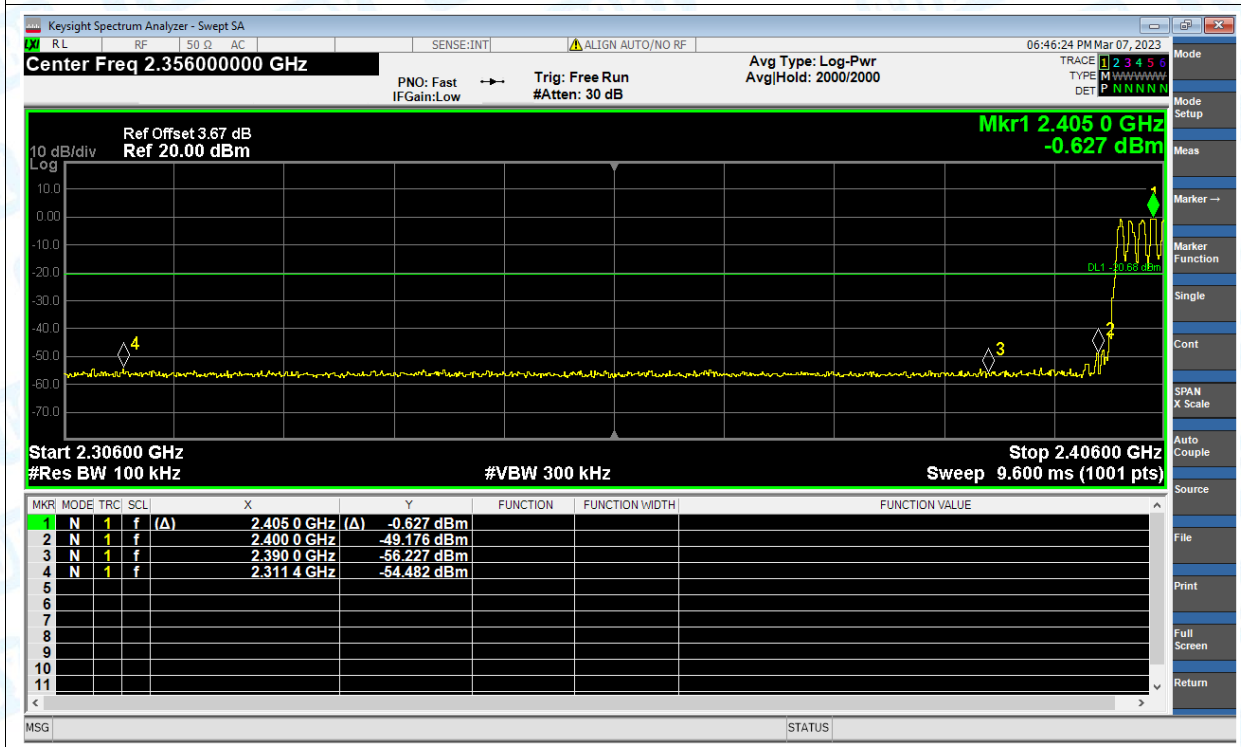
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.8	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.27	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.87	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-53.46	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-53.31	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-54.02	-20	Pass

Test Graphs

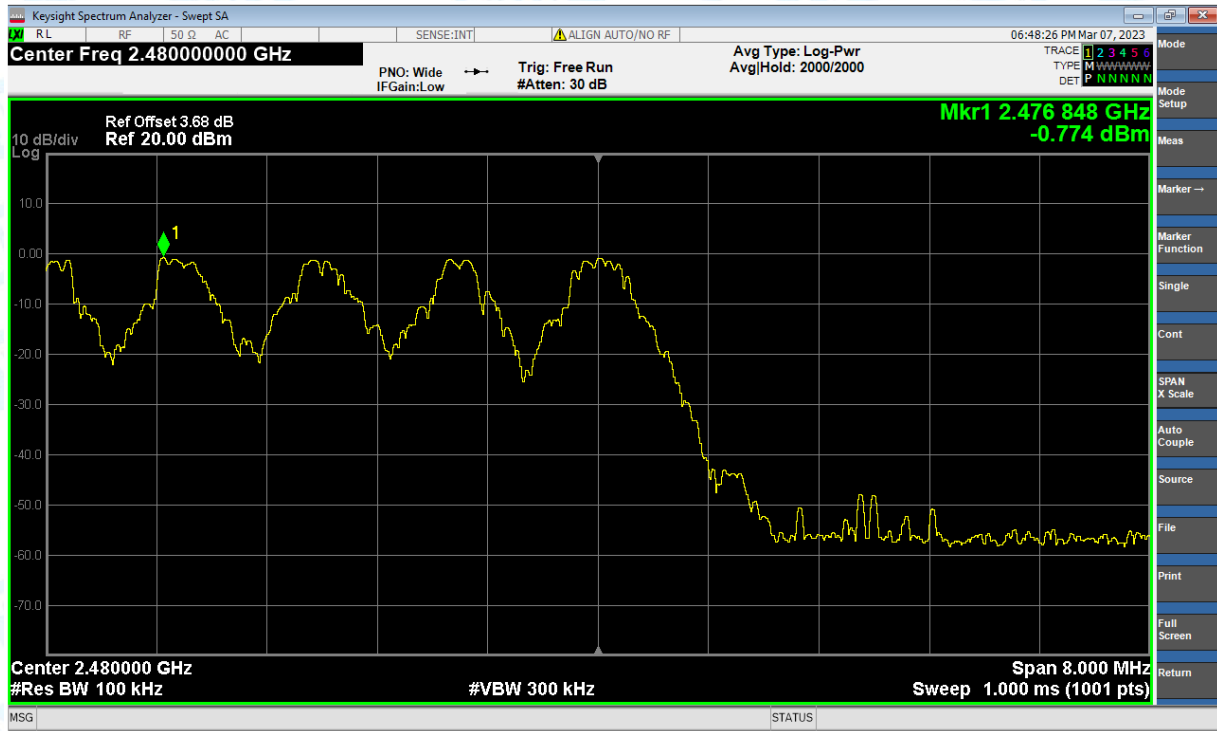
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



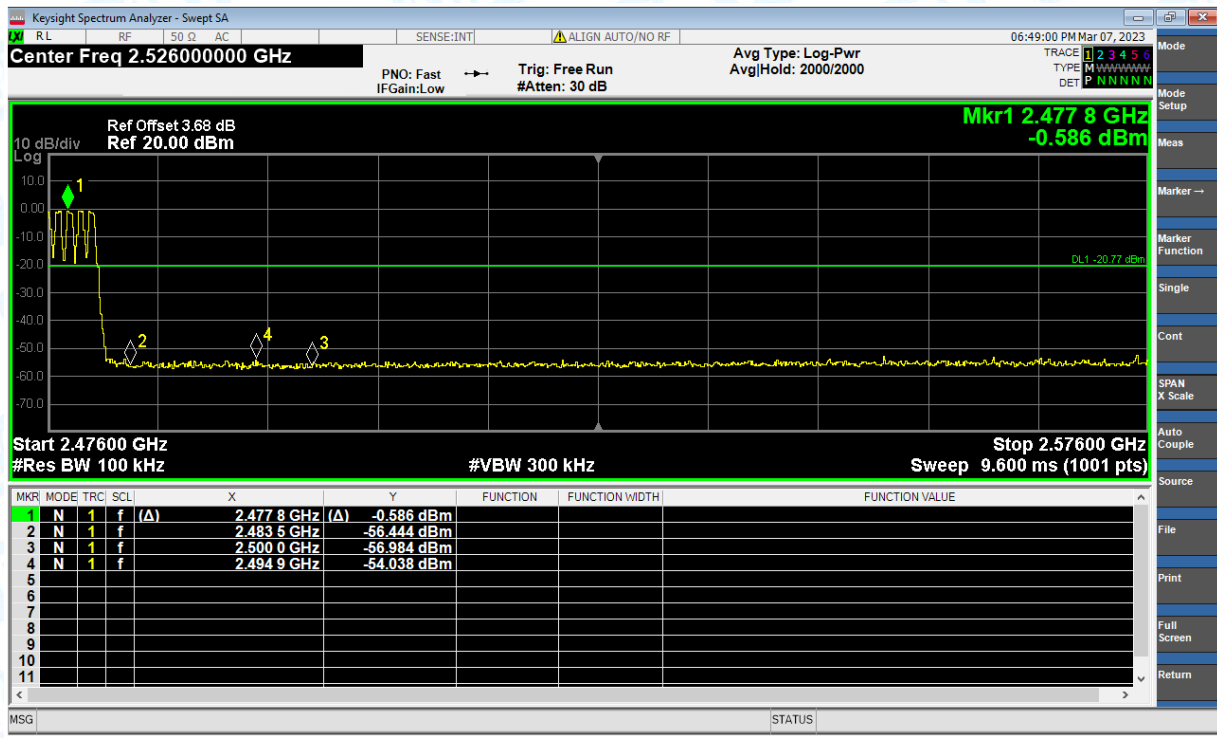
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



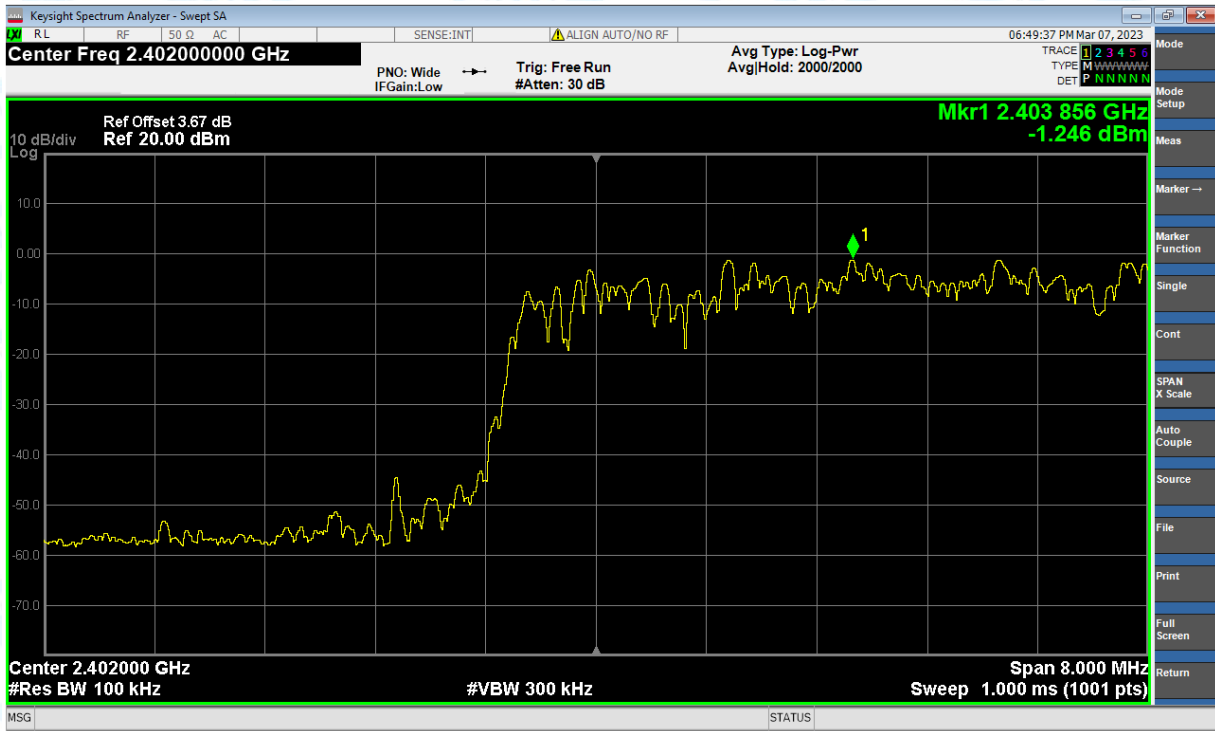
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



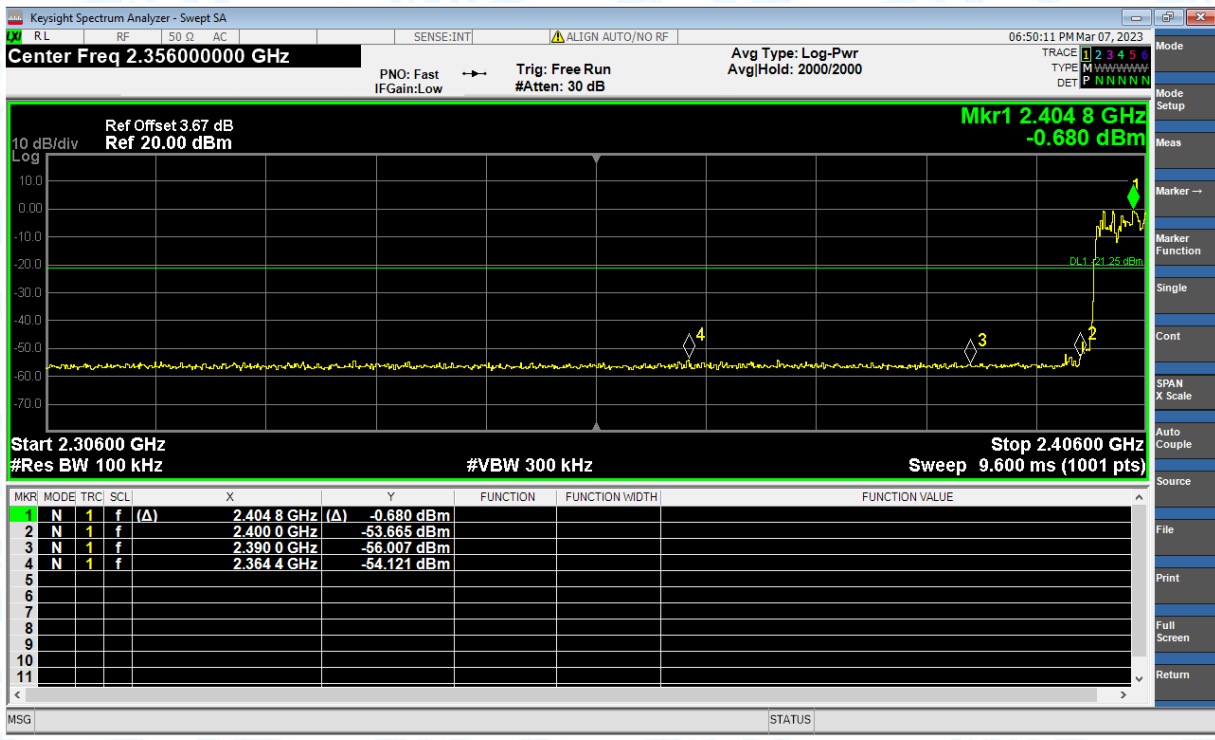
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



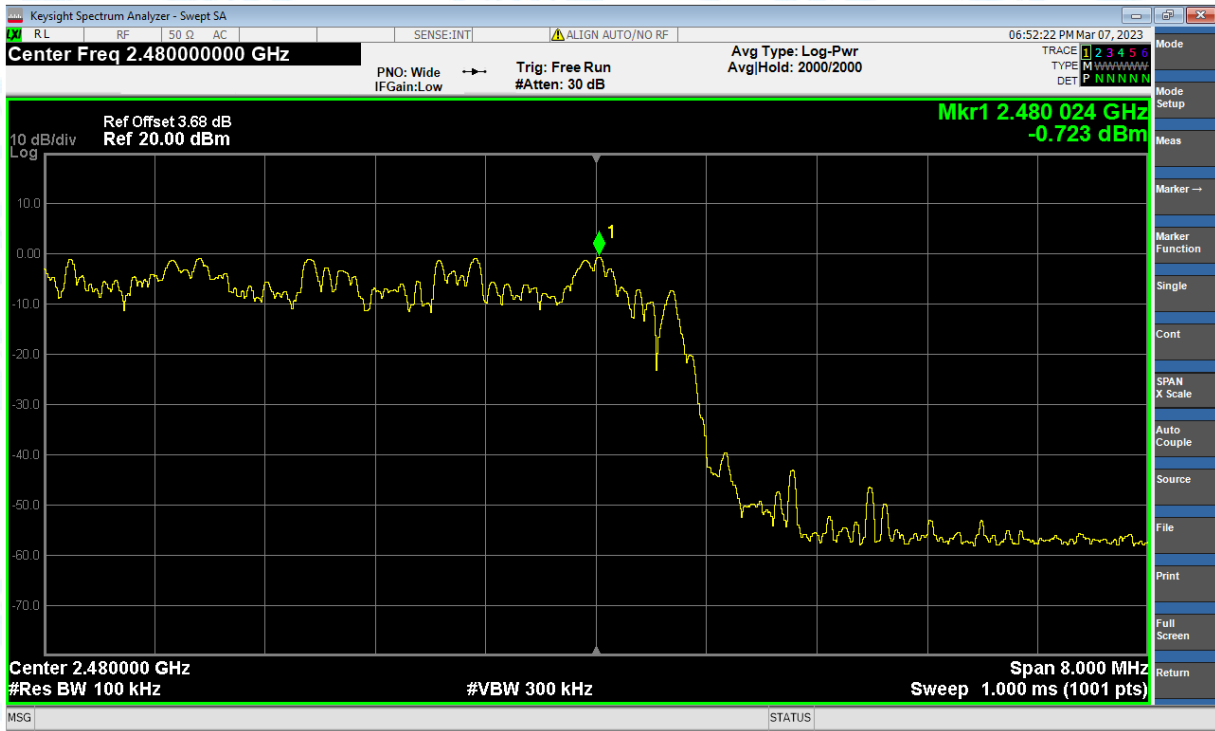
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



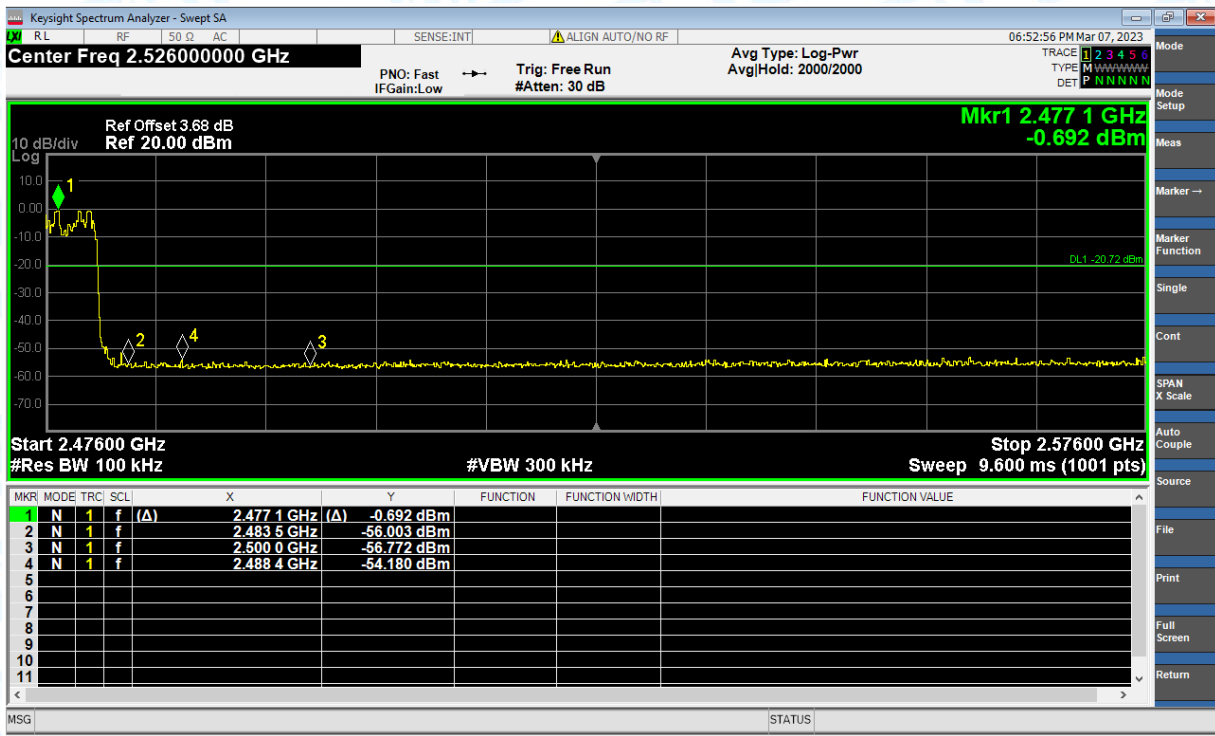
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



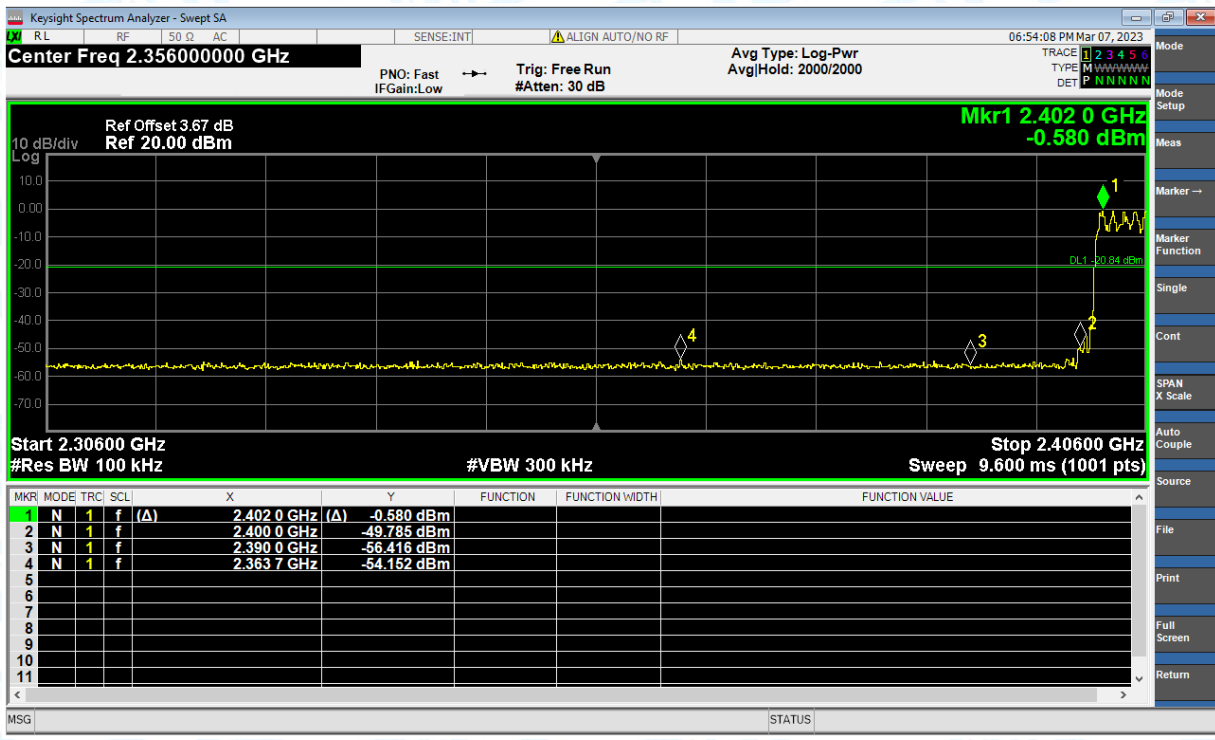
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



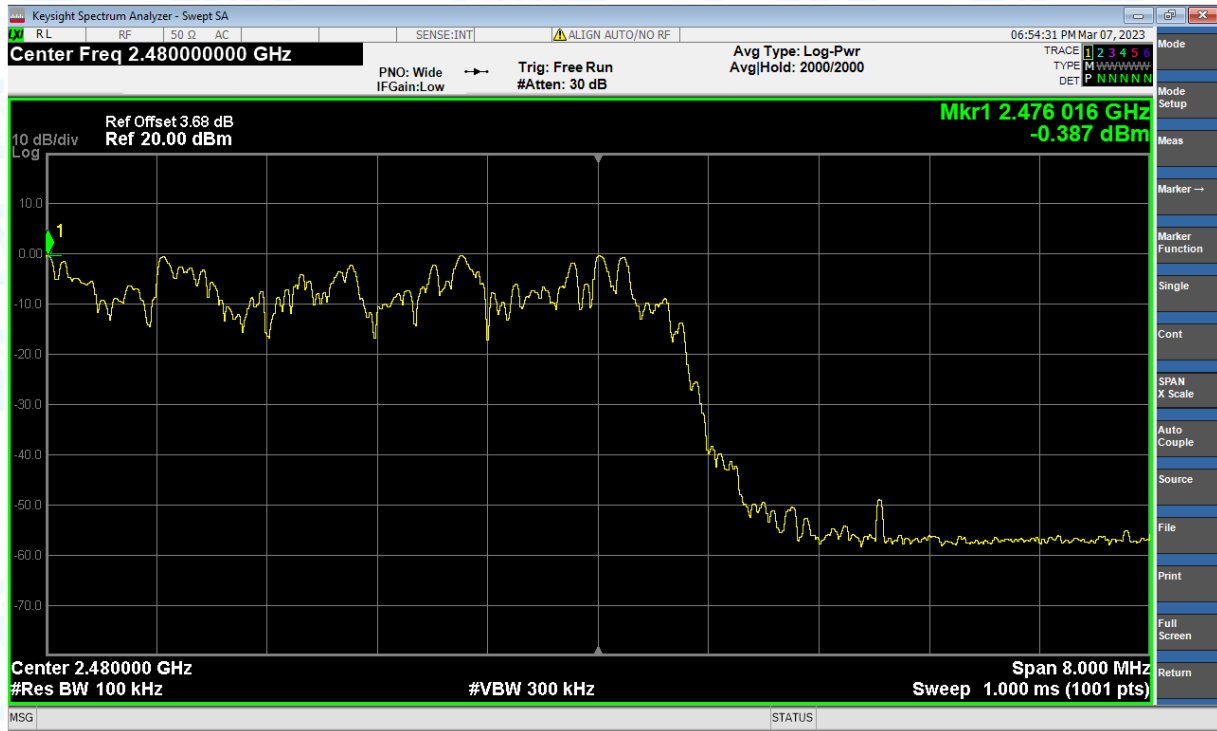
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



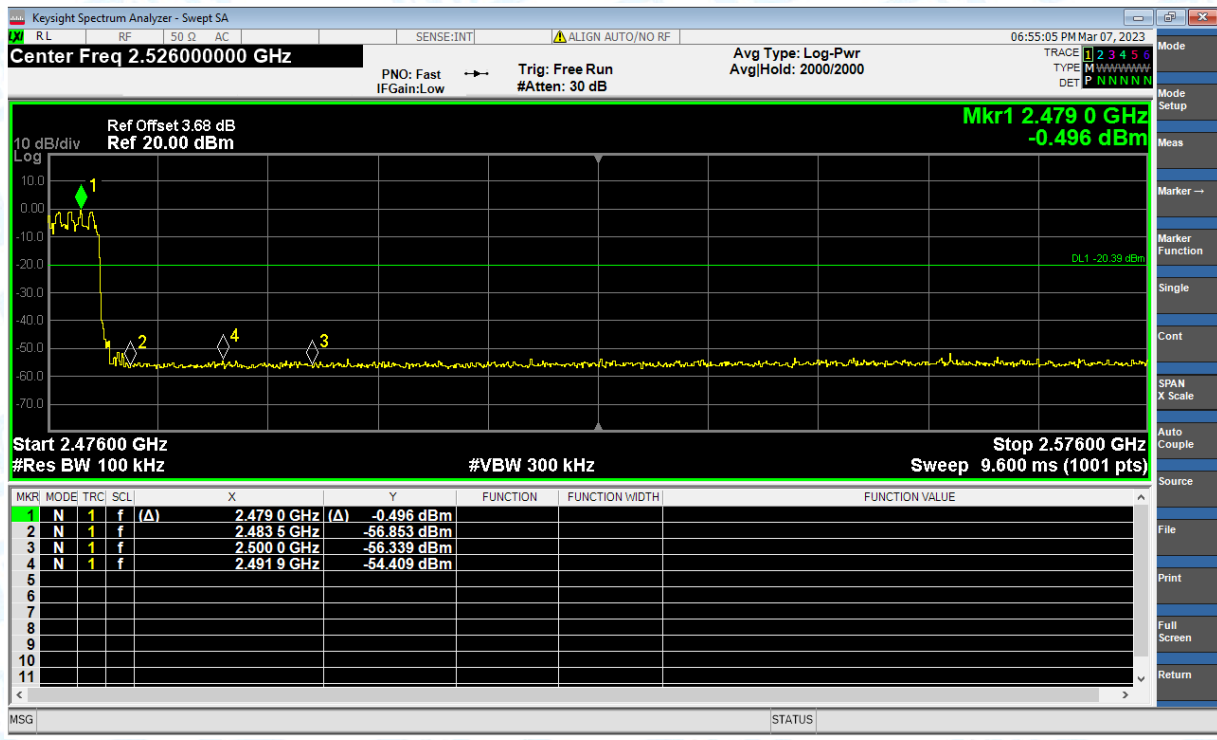
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

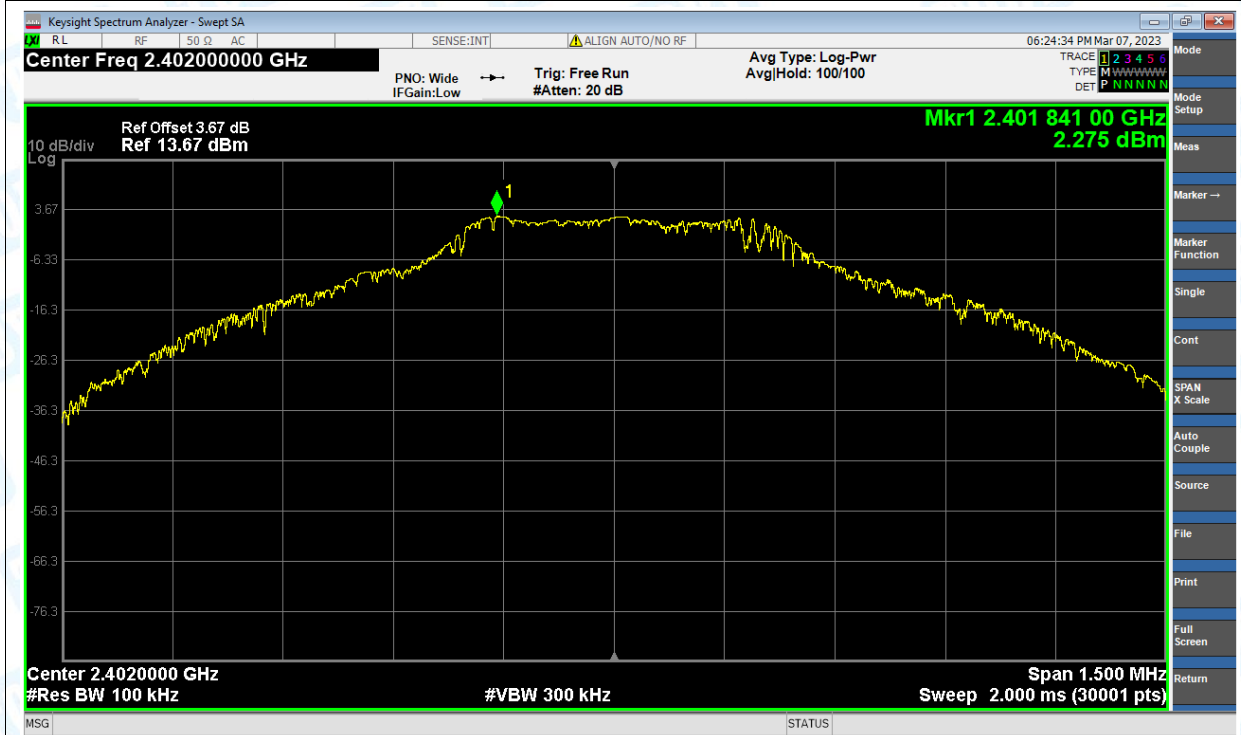


7. Conducted RF Spurious Emission

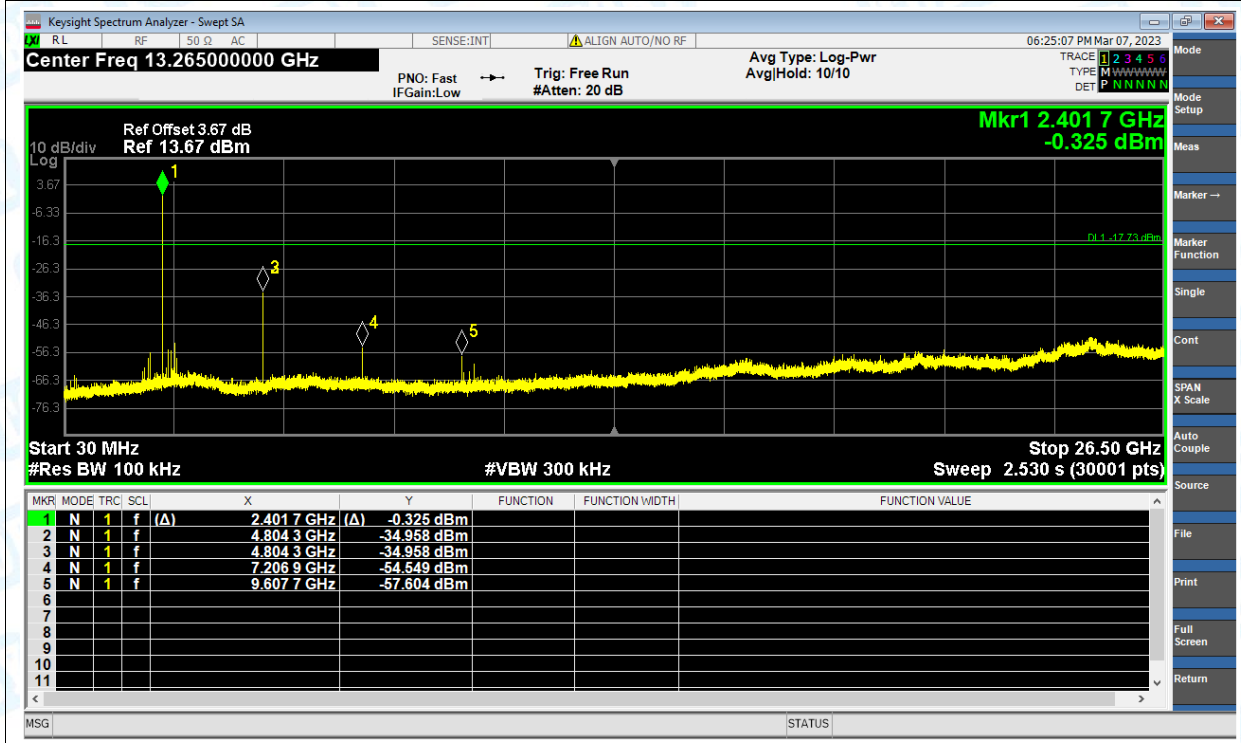
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-37.24	-20	Pass
NVNT	1-DH1	2441	Ant1	-34.91	-20	Pass
NVNT	1-DH1	2480	Ant1	-36.68	-20	Pass
NVNT	2-DH1	2402	Ant1	-35.57	-20	Pass
NVNT	2-DH1	2441	Ant1	-38.05	-20	Pass
NVNT	2-DH1	2480	Ant1	-40.86	-20	Pass
NVNT	3-DH1	2402	Ant1	-41.03	-20	Pass
NVNT	3-DH1	2441	Ant1	-41.53	-20	Pass
NVNT	3-DH1	2480	Ant1	-38.05	-20	Pass

Test Graphs

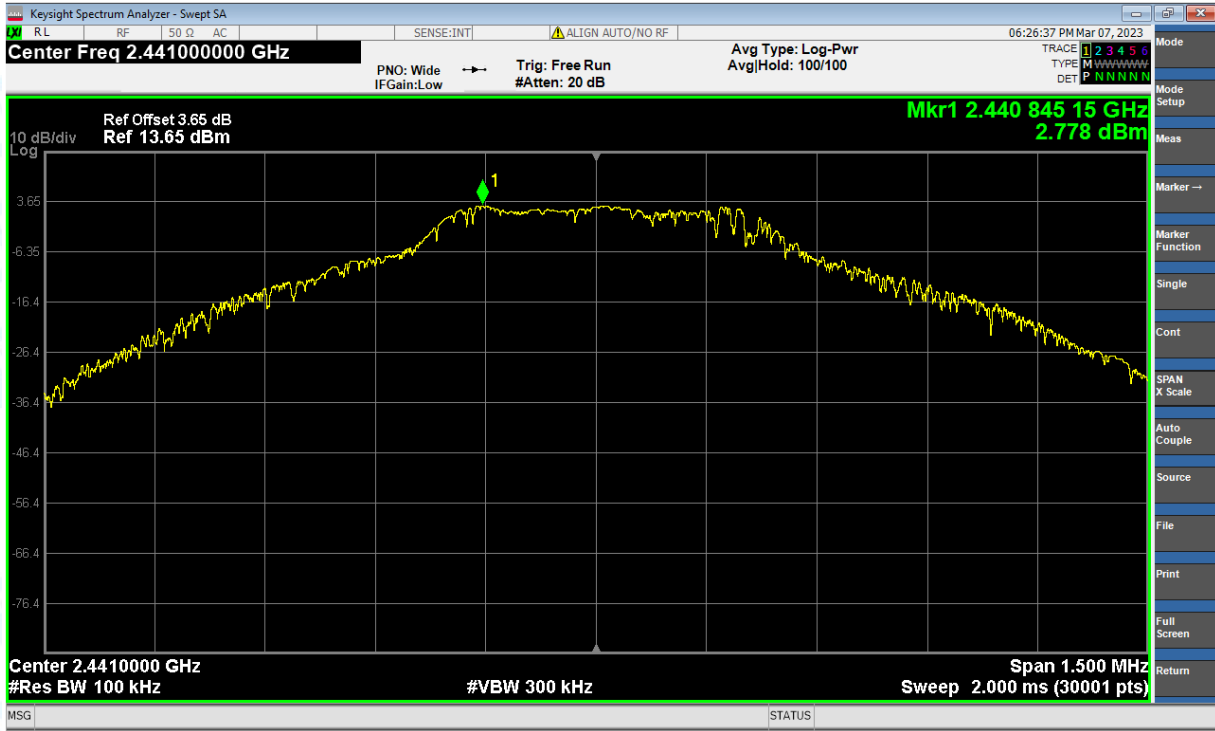
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



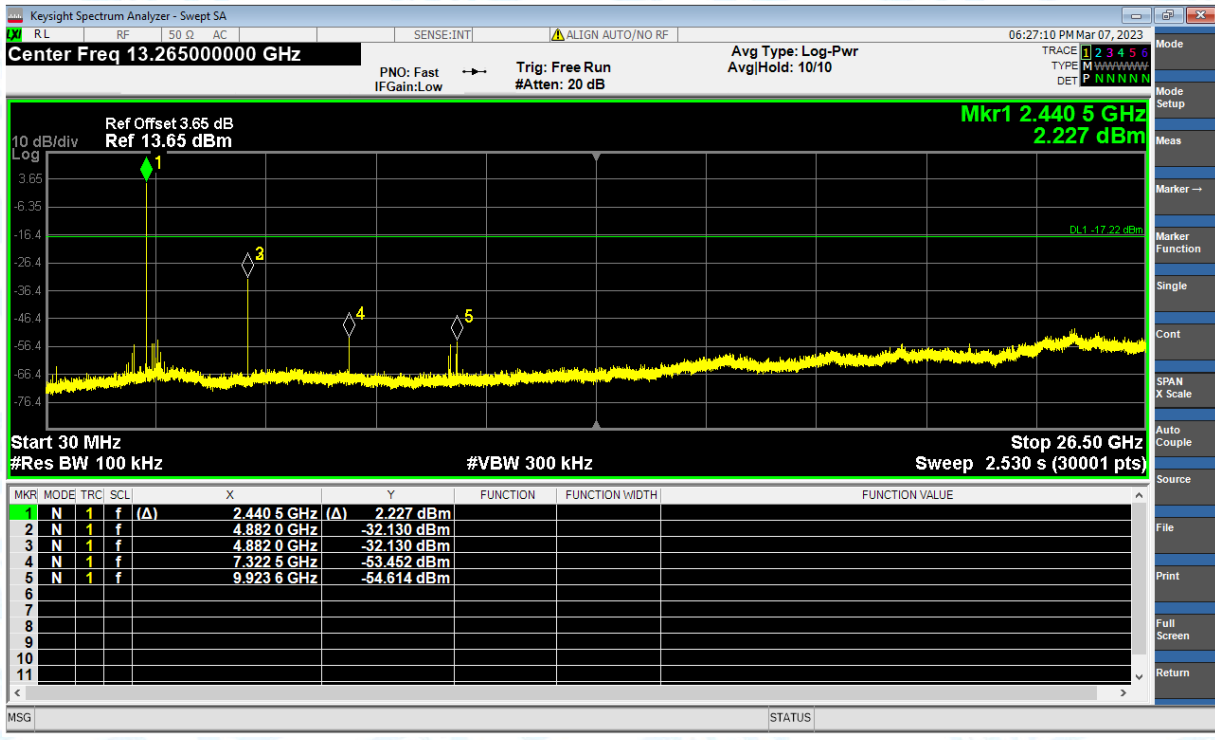
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



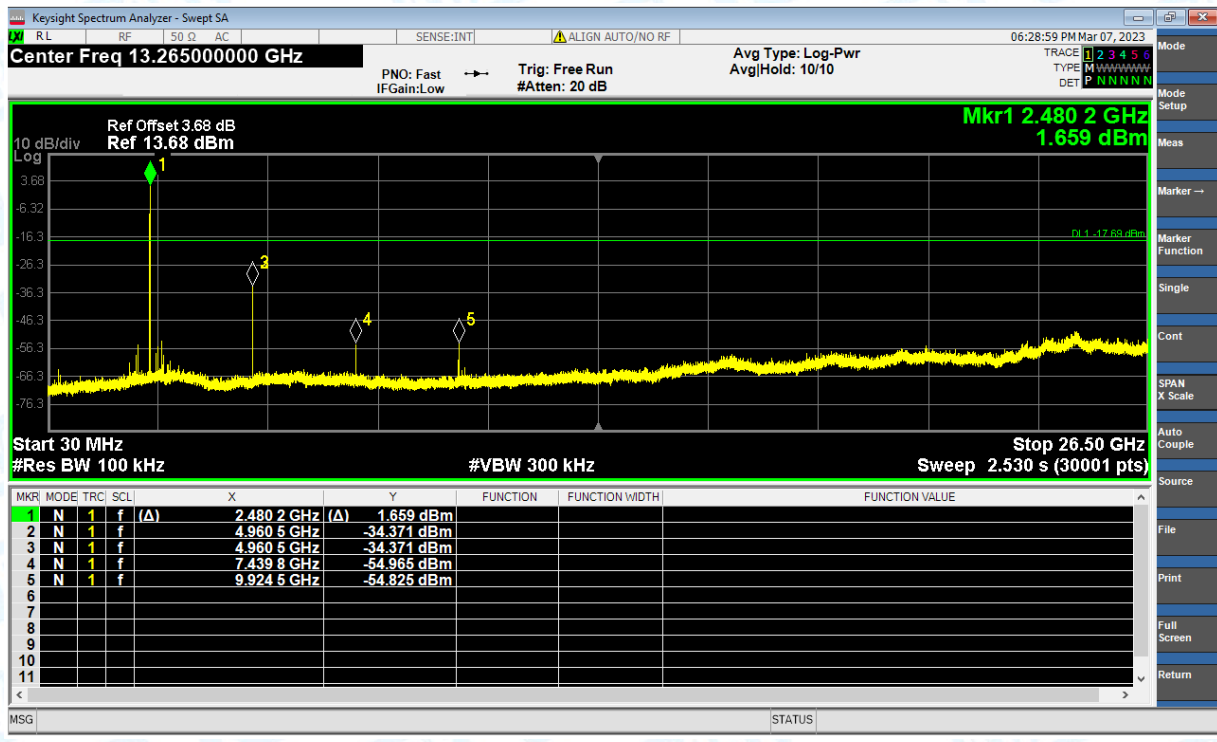
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



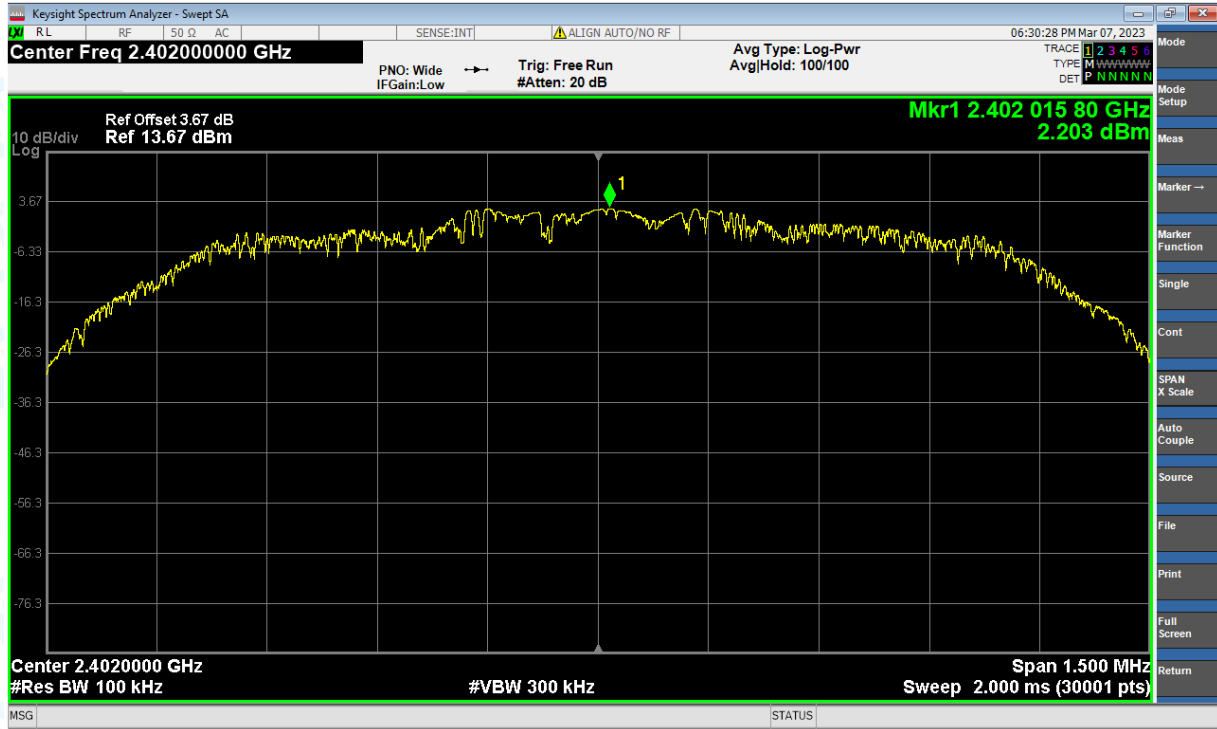
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



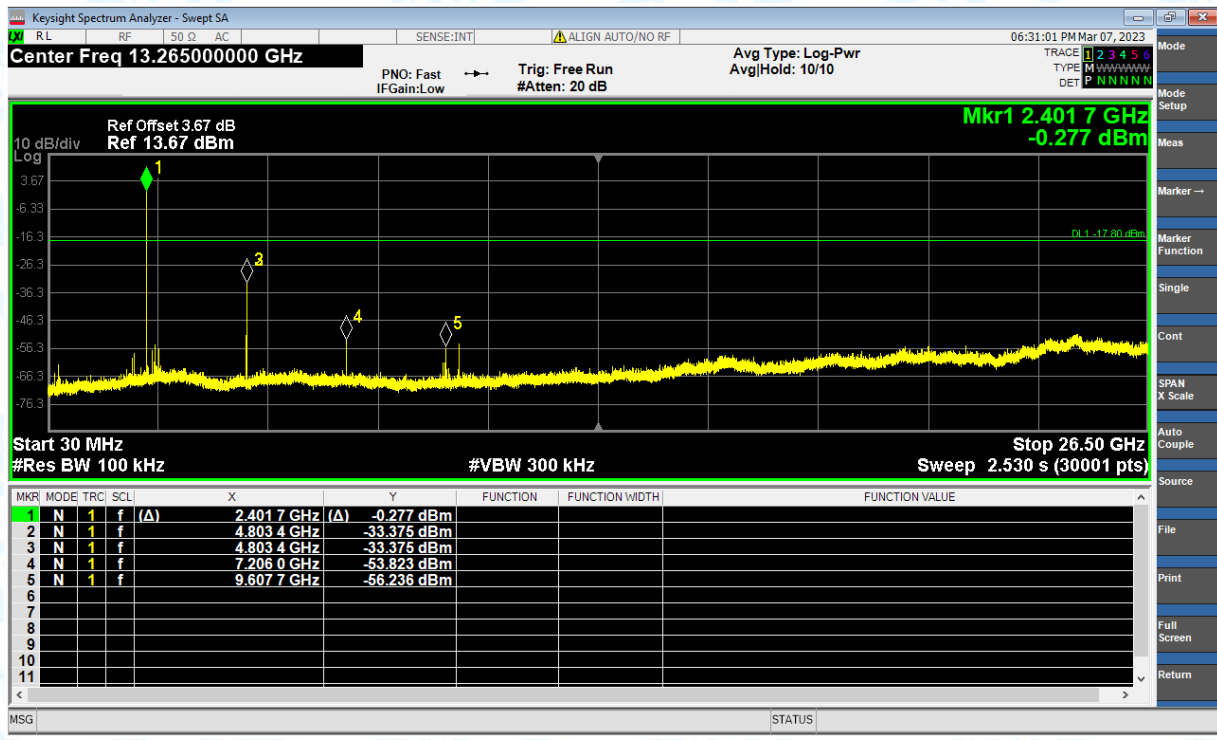
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



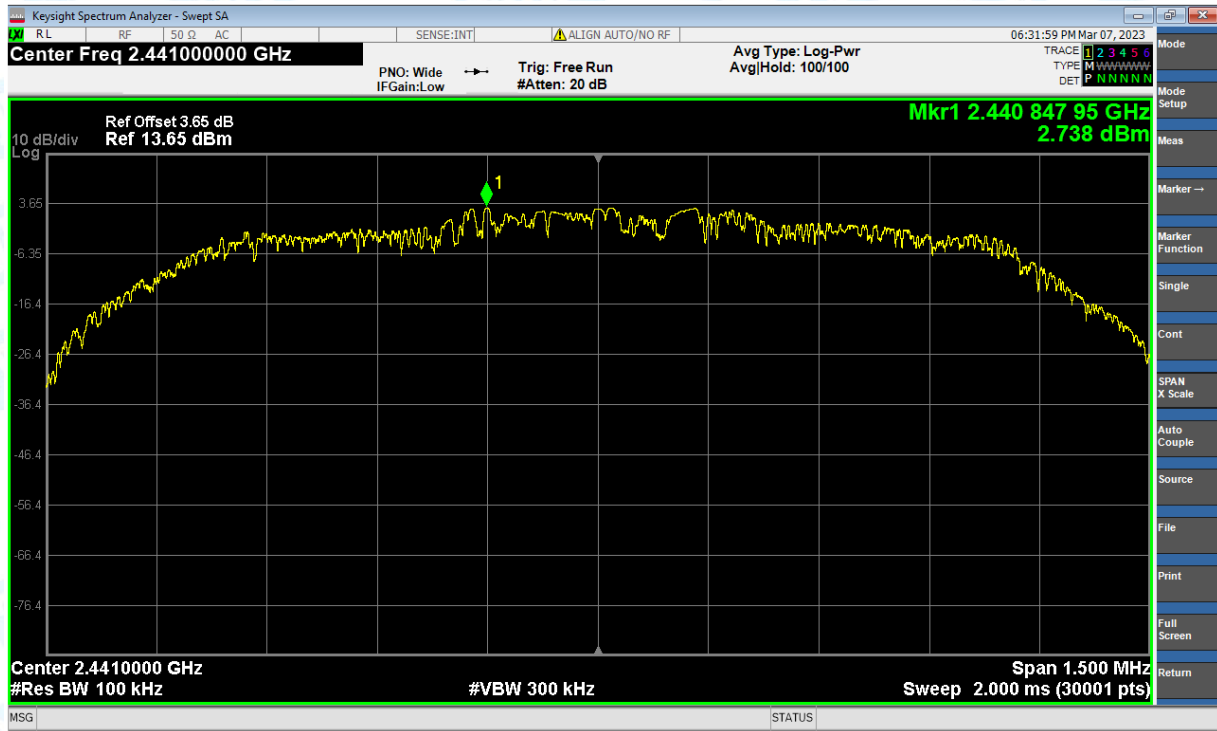
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



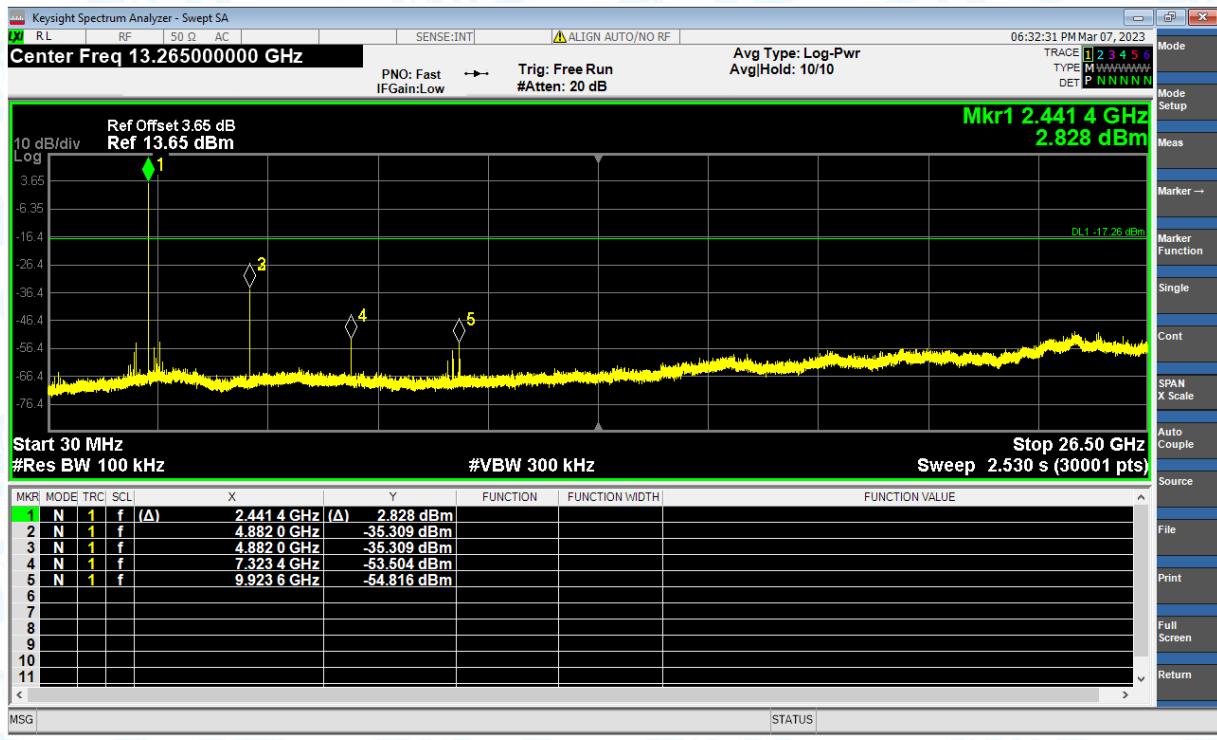
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



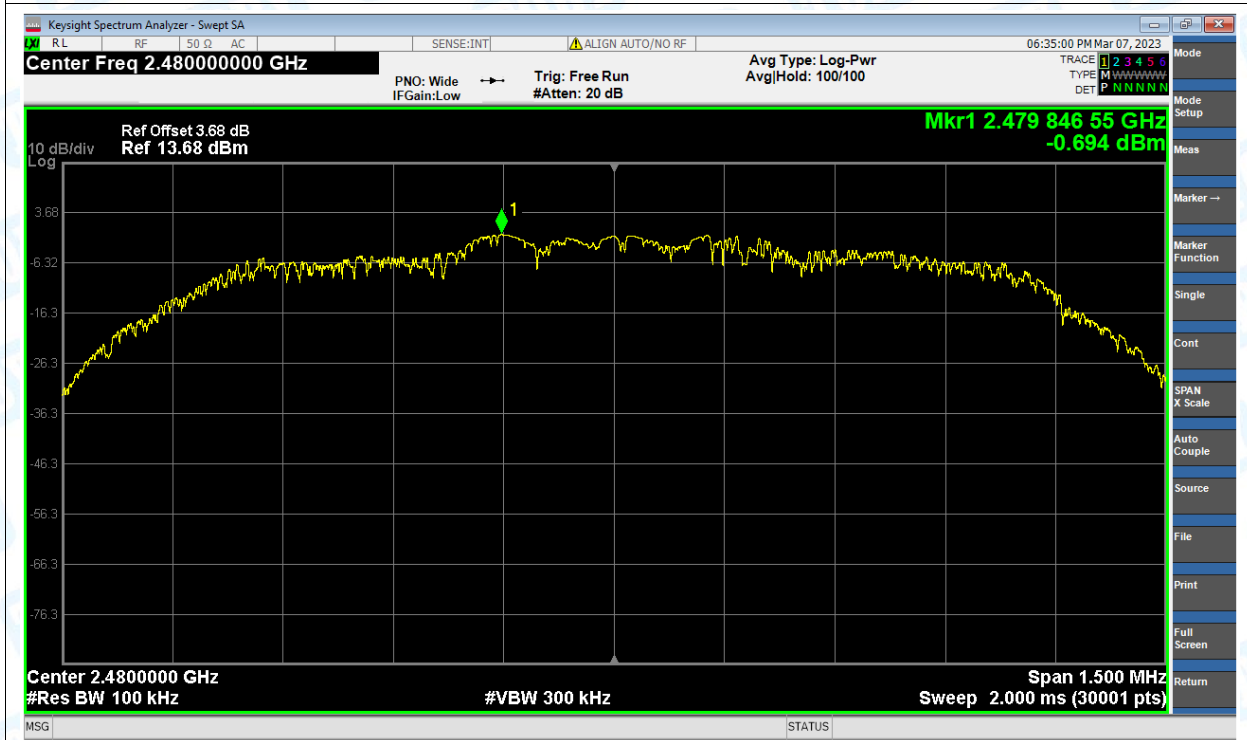
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



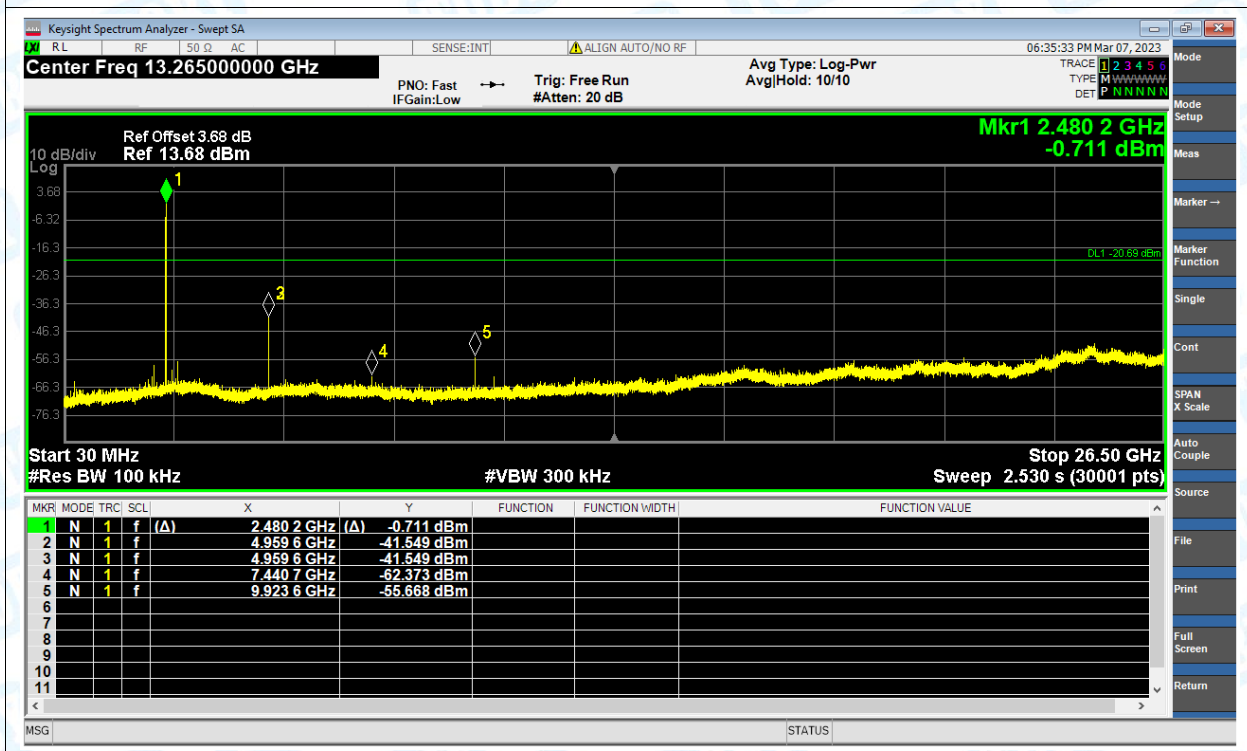
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



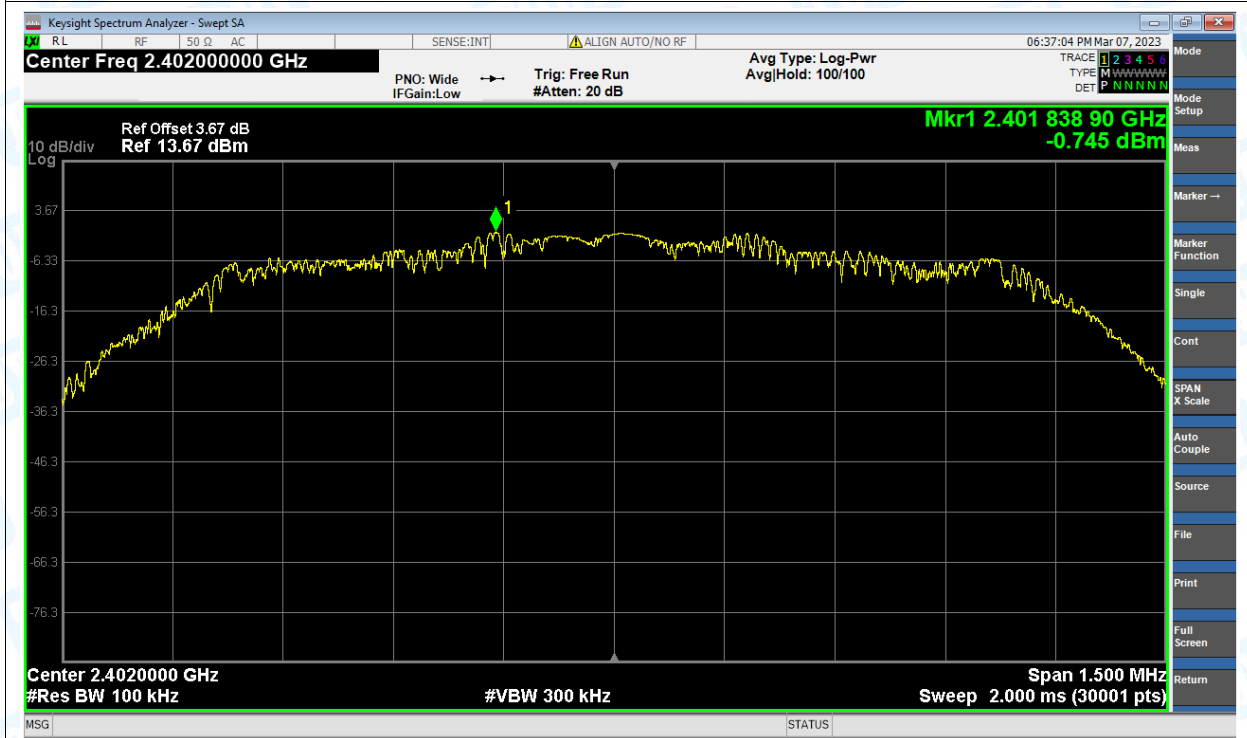
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



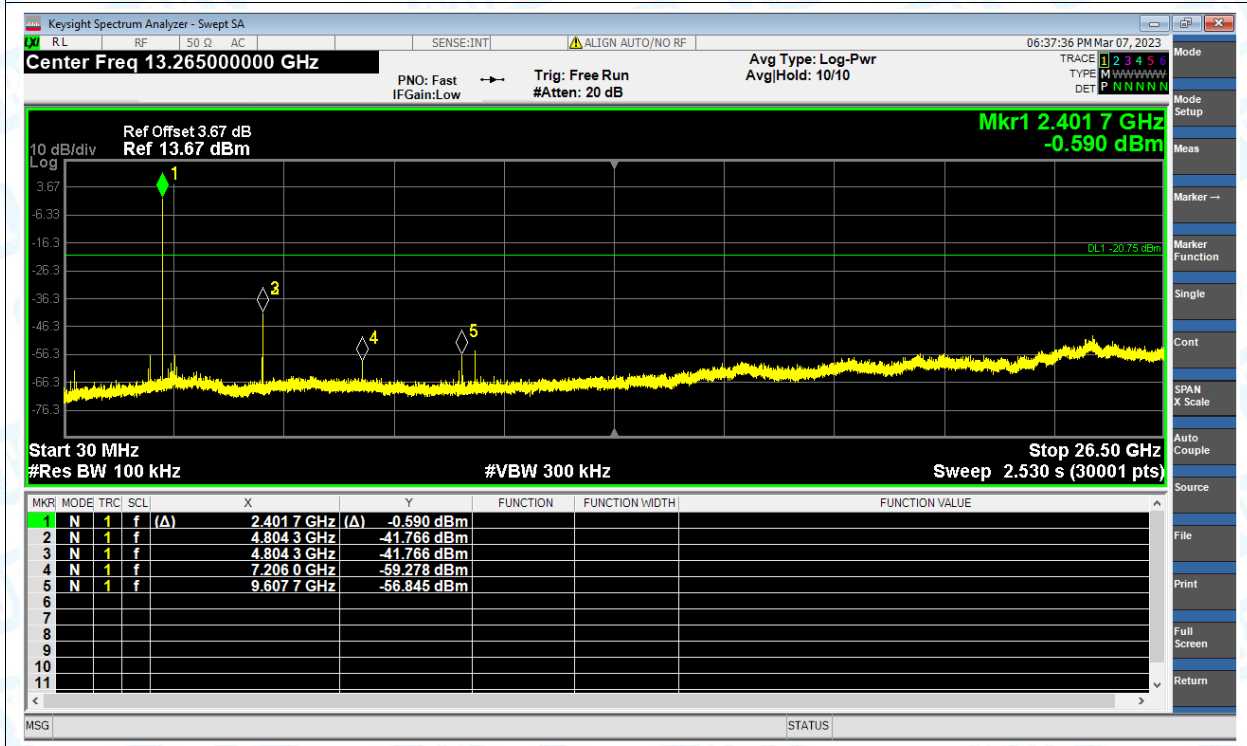
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



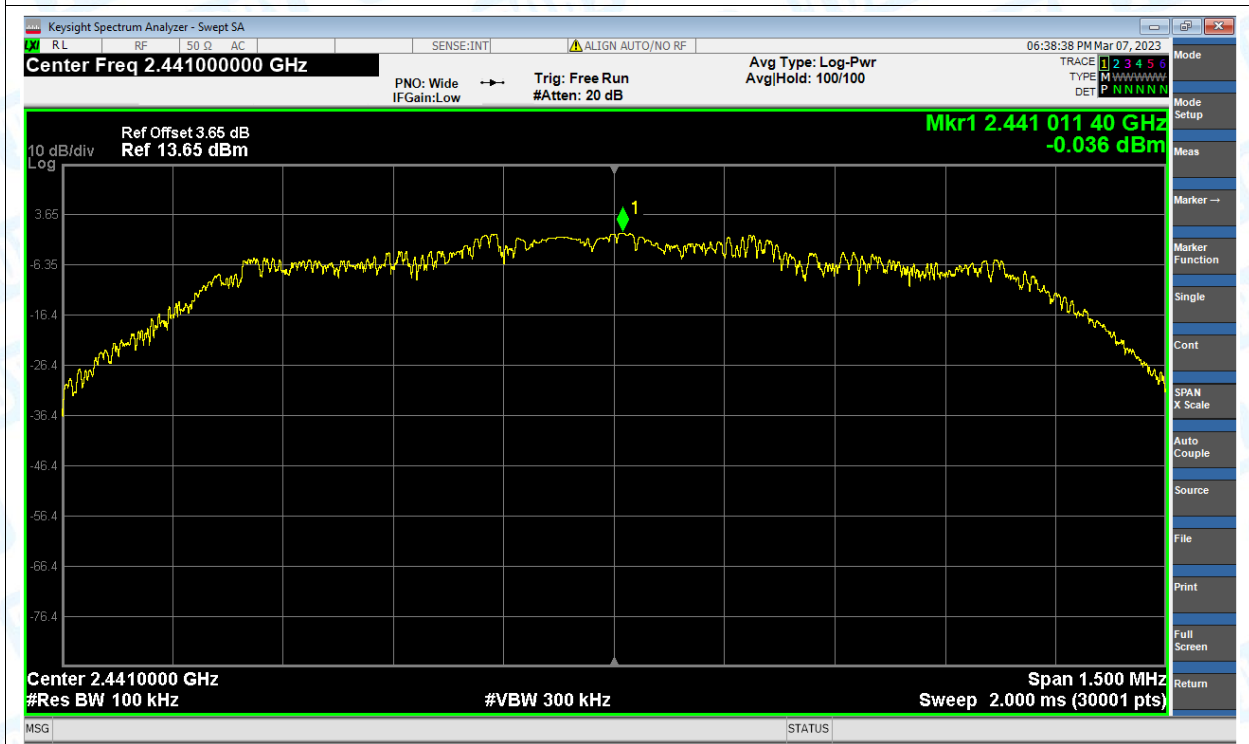
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



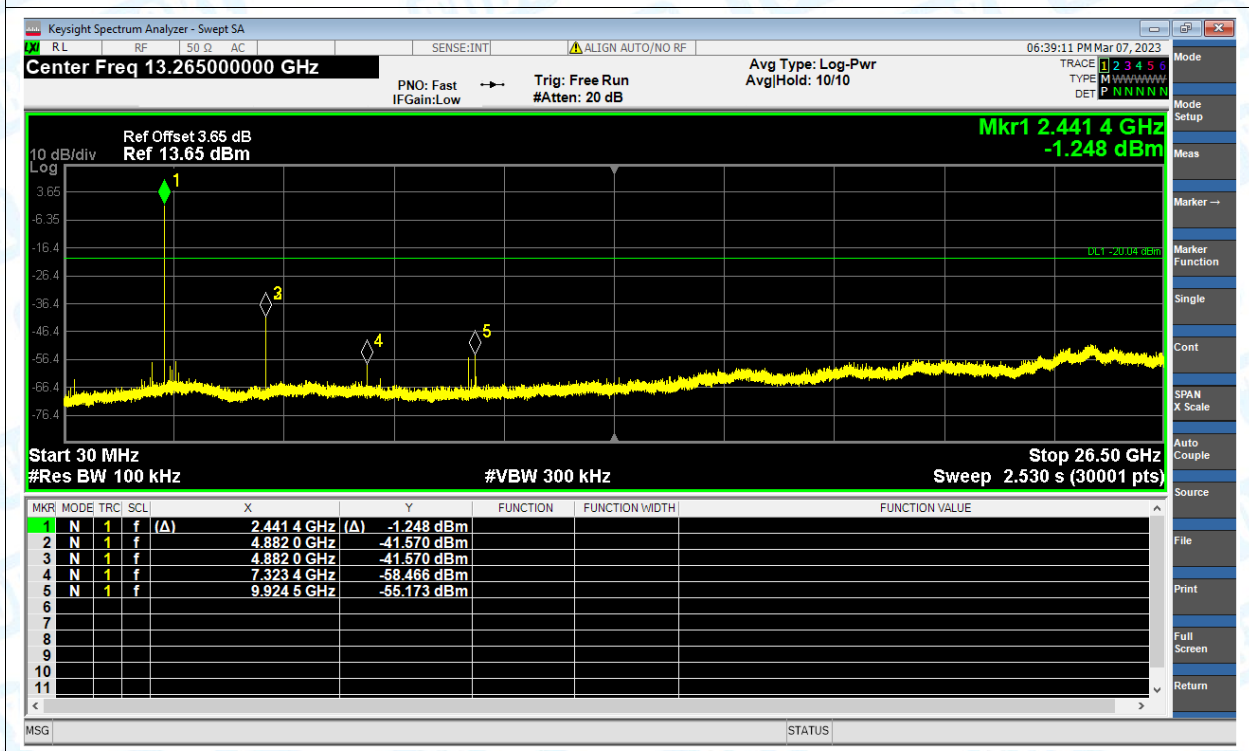
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



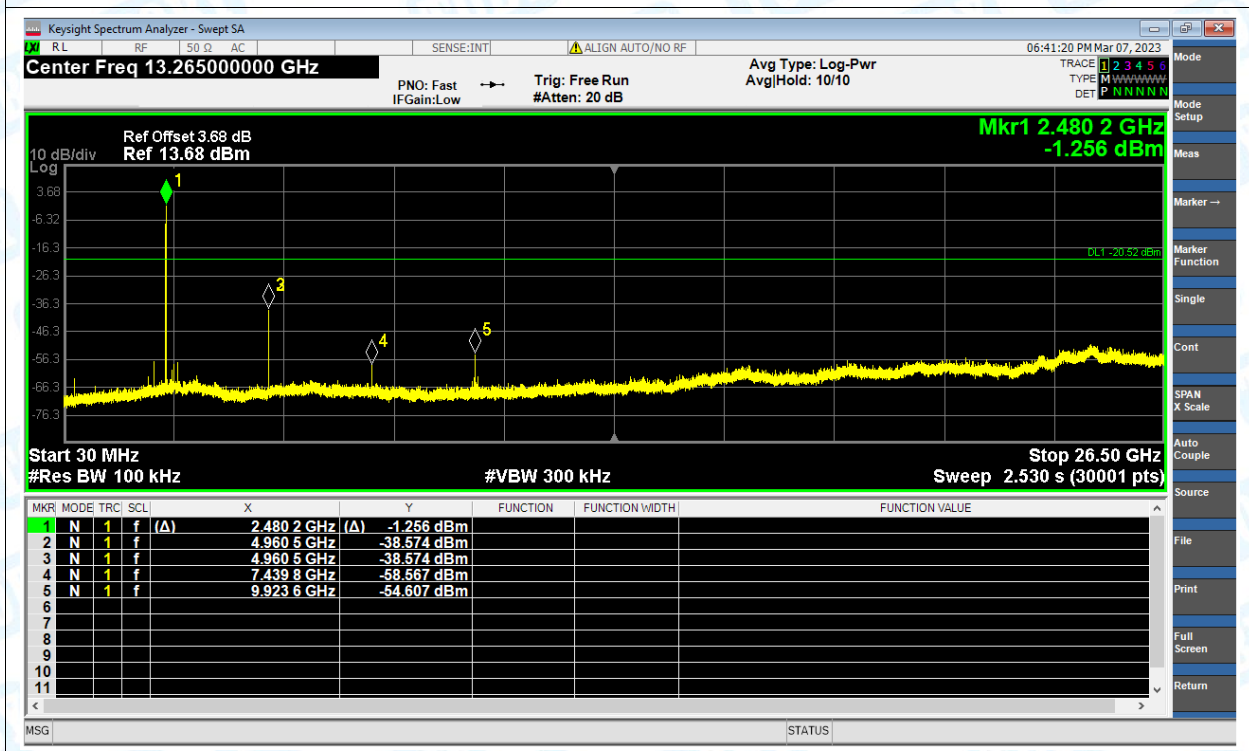
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

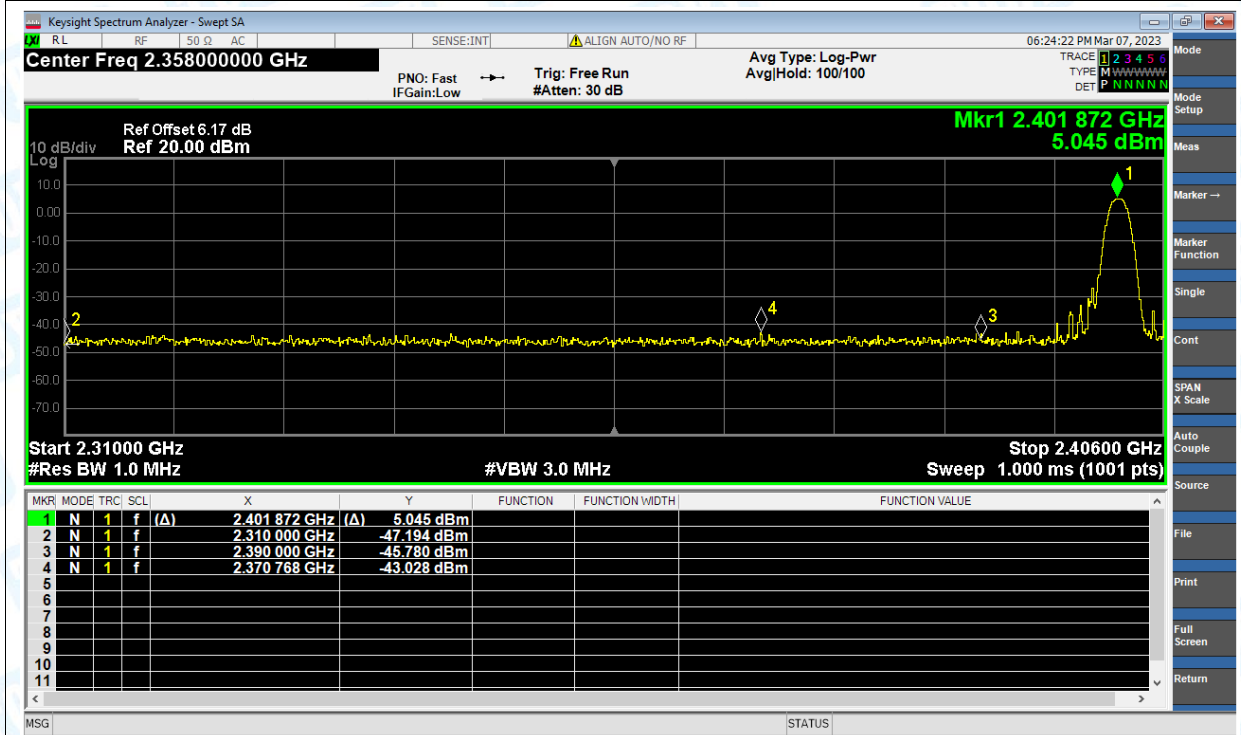


8. Restrict Band

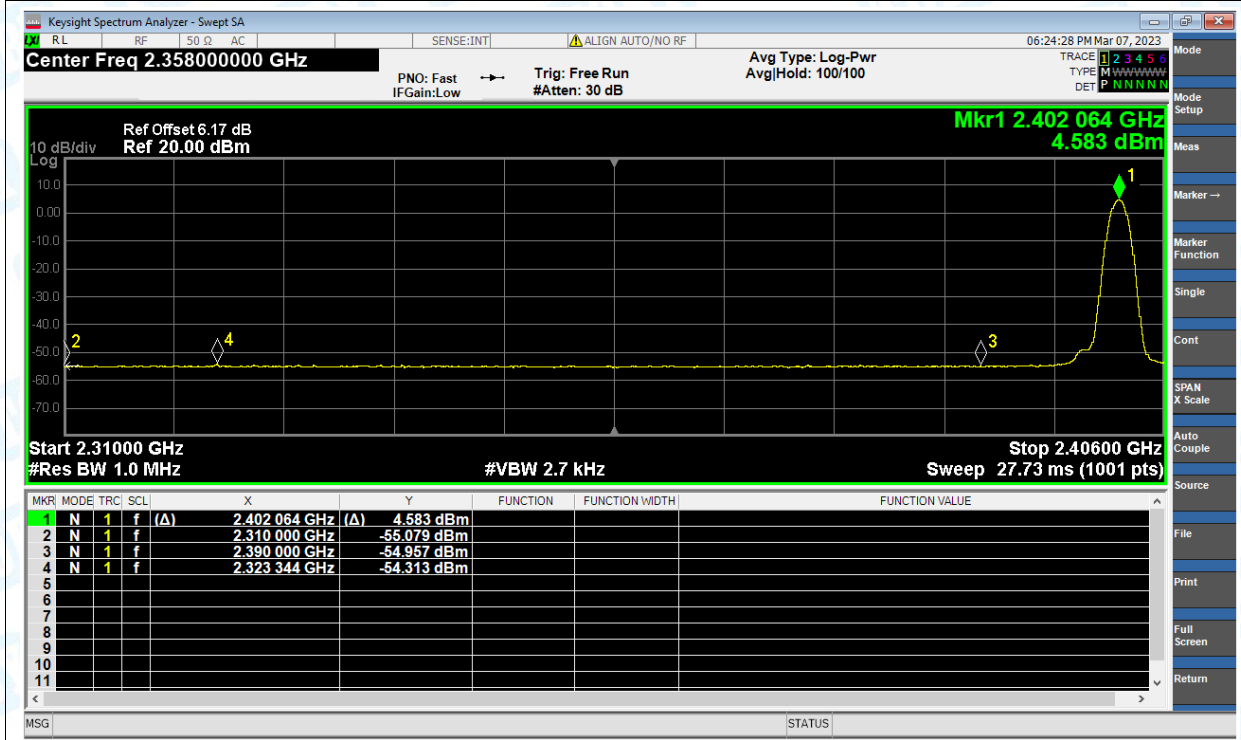
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.19	2.5	50.57	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.08	2.5	42.68	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2370.768	-43.03	2.5	54.73	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2323.344	-54.31	2.5	43.45	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-43.16	2.5	54.6	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.04	2.5	42.72	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-36.87	2.5	60.89	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.43	2.5	44.33	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.536	-34.32	2.5	63.44	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.776	-53.25	2.5	44.51	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-45.22	2.5	52.54	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.99	2.5	42.77	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.51	2.5	51.25	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.44	2.5	42.32	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2339.856	-42.48	2.5	55.28	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2328.912	-54.63	2.5	43.13	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.88	2.5	50.88	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.2	2.5	42.56	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.53	2.5	52.23	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.13	2.5	43.63	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.584	-37.02	2.5	60.74	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-54.13	2.5	43.63	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.01	2.5	50.75	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.02	2.5	42.74	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.93	2.5	51.83	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.15	2.5	42.61	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2375.472	-43.18	2.5	54.58	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2384.784	-54.56	2.5	43.2	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-45.56	2.5	52.2	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.11	2.5	42.65	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-34.17	2.5	63.59	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.51	2.5	43.25	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-34.17	2.5	63.59	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2495.728	-54.34	2.5	43.42	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.44	2.5	51.32	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.03	2.5	42.73	Average	54	Pass

Test Graphs

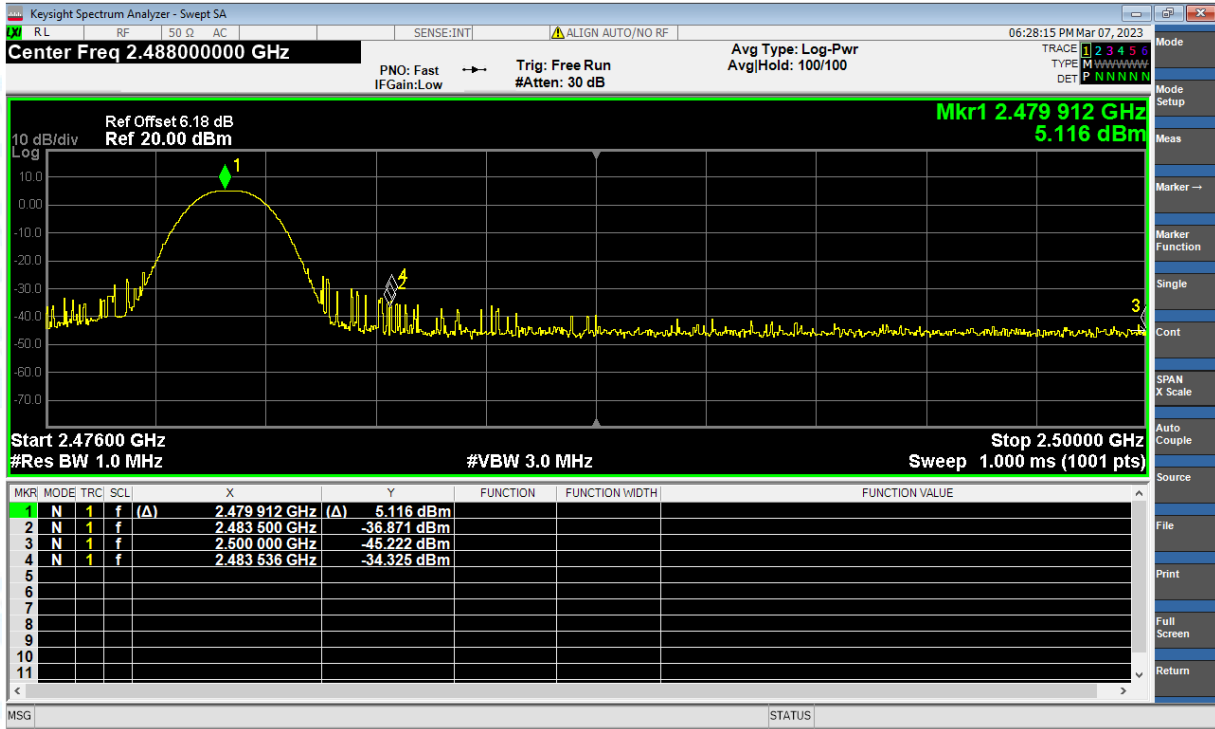
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



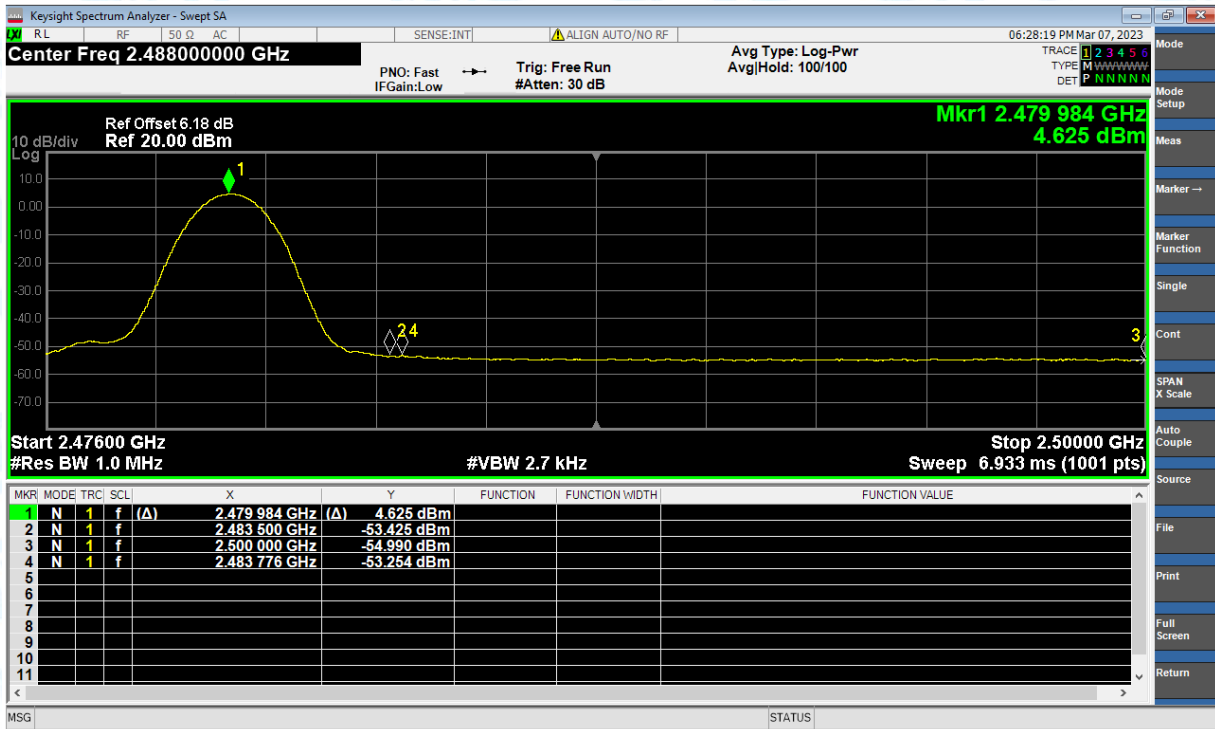
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



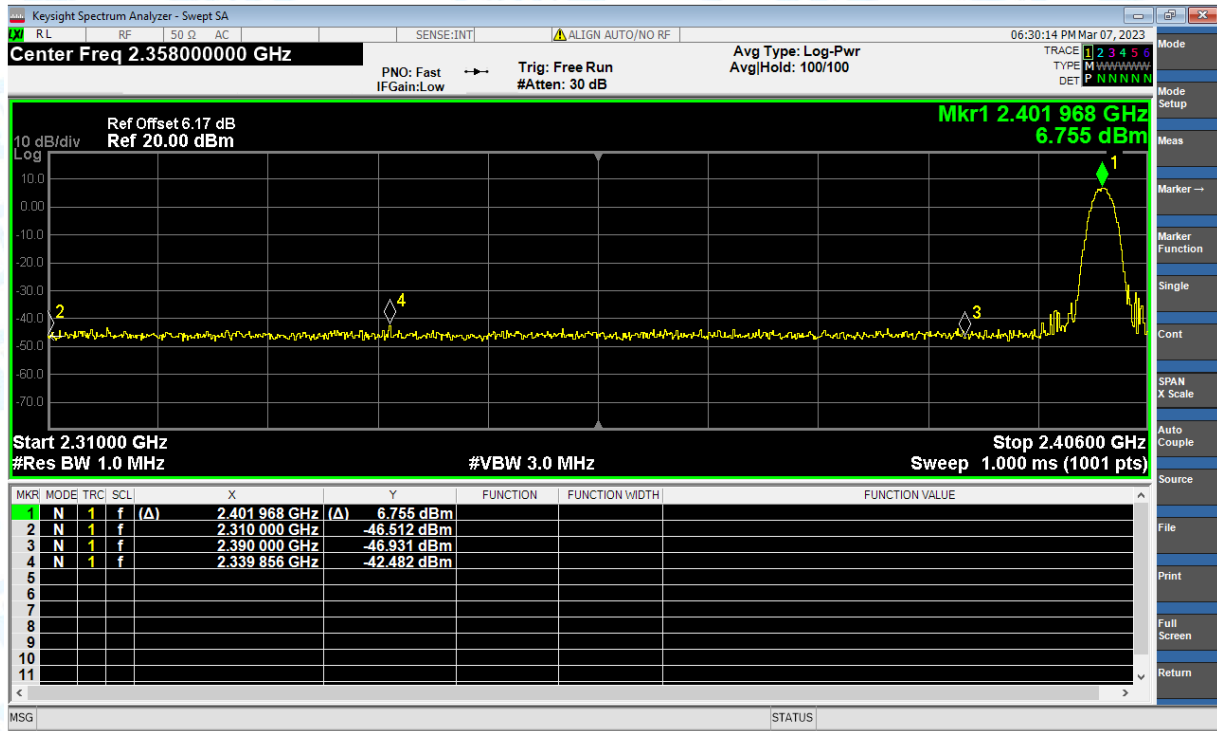
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



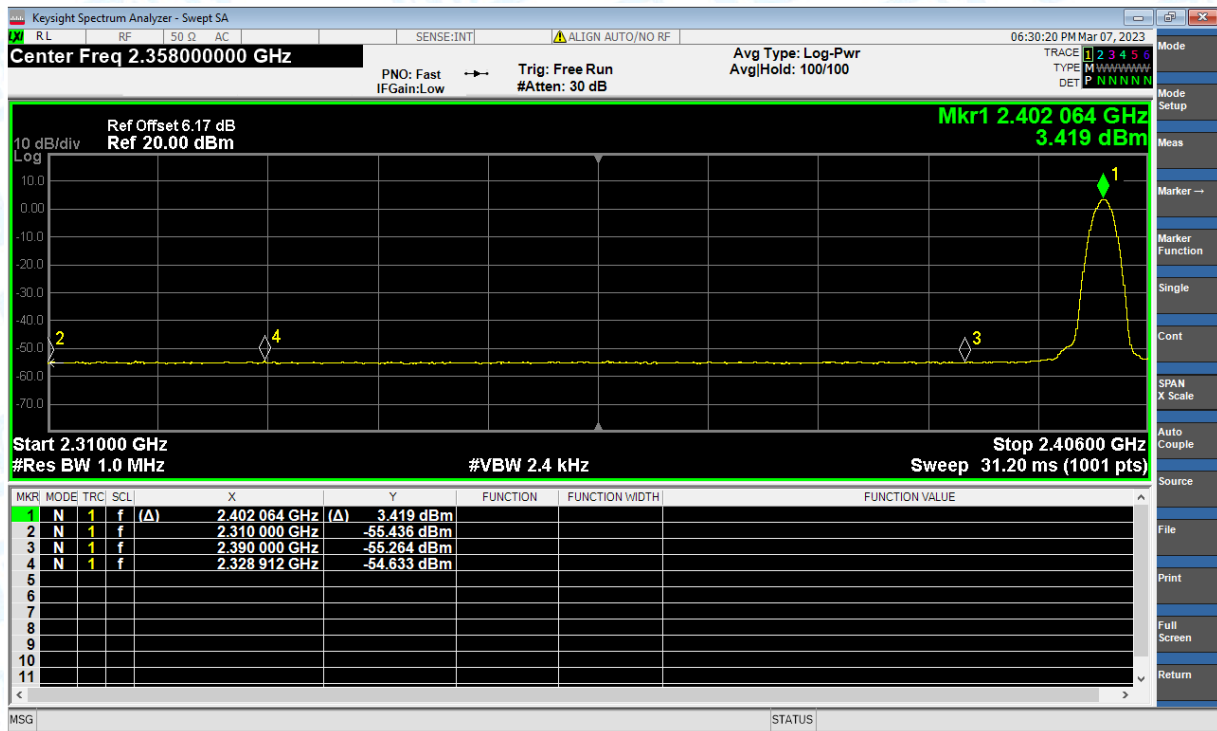
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



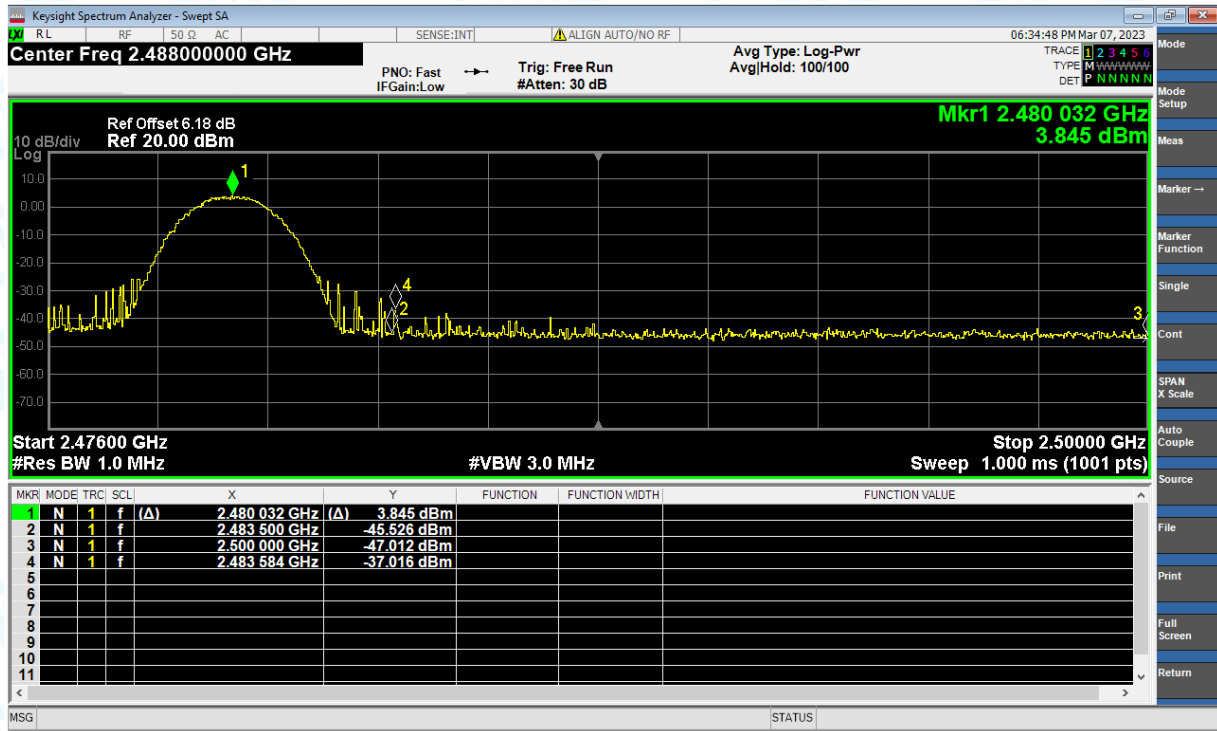
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



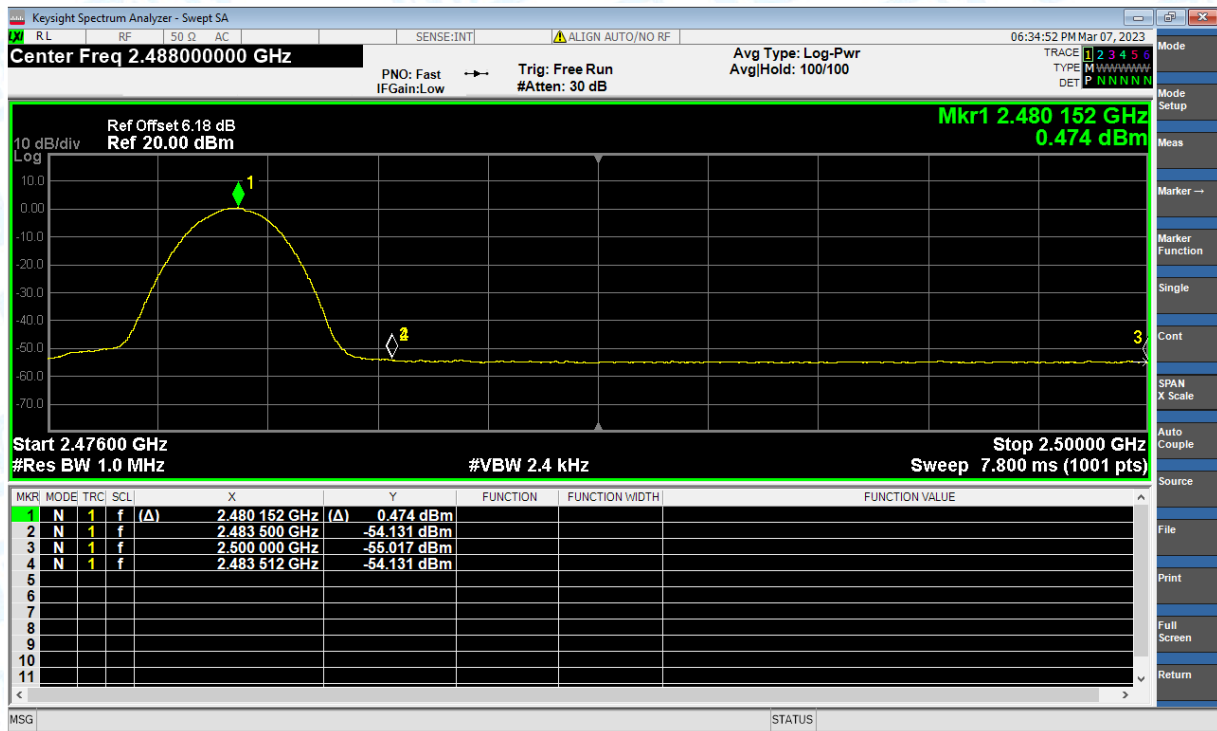
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



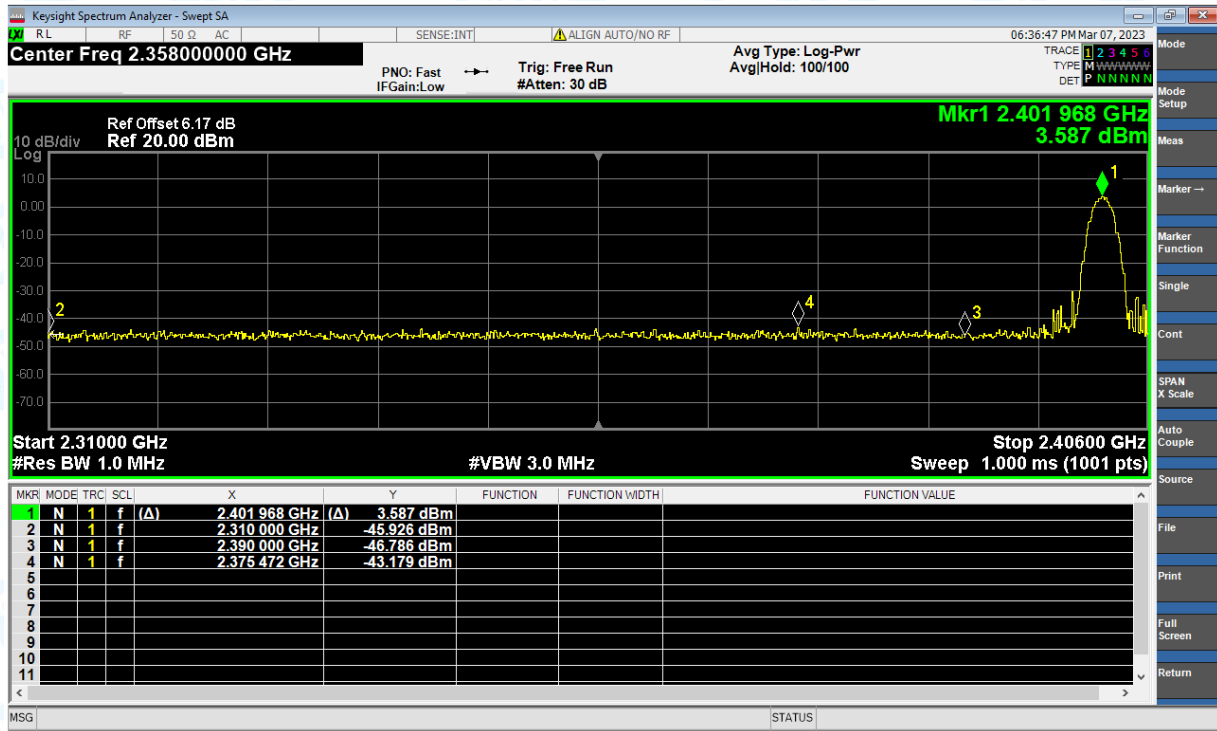
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



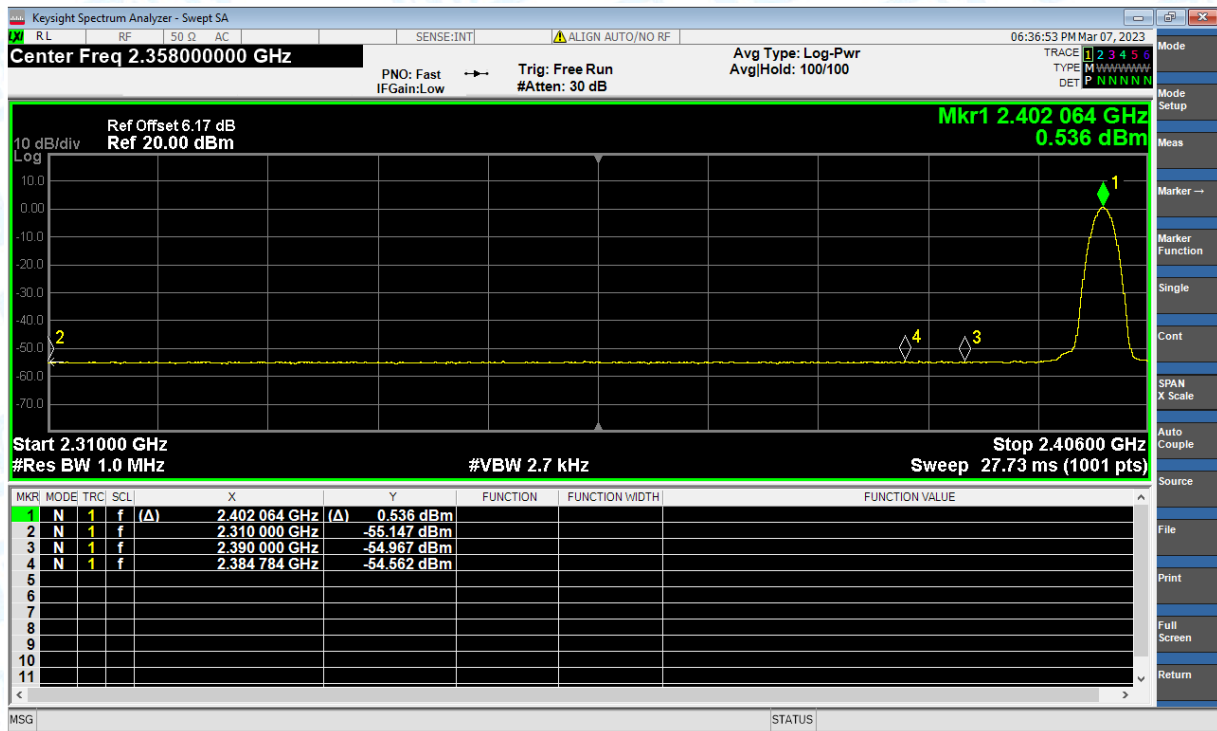
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



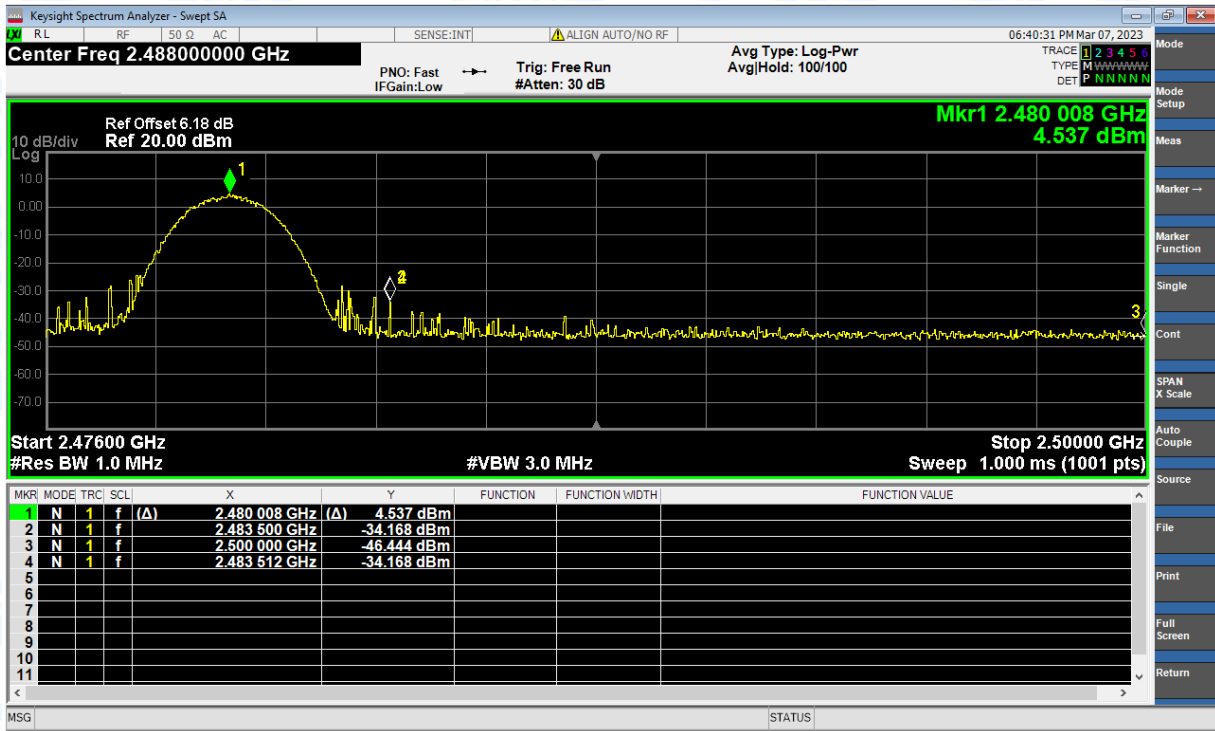
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



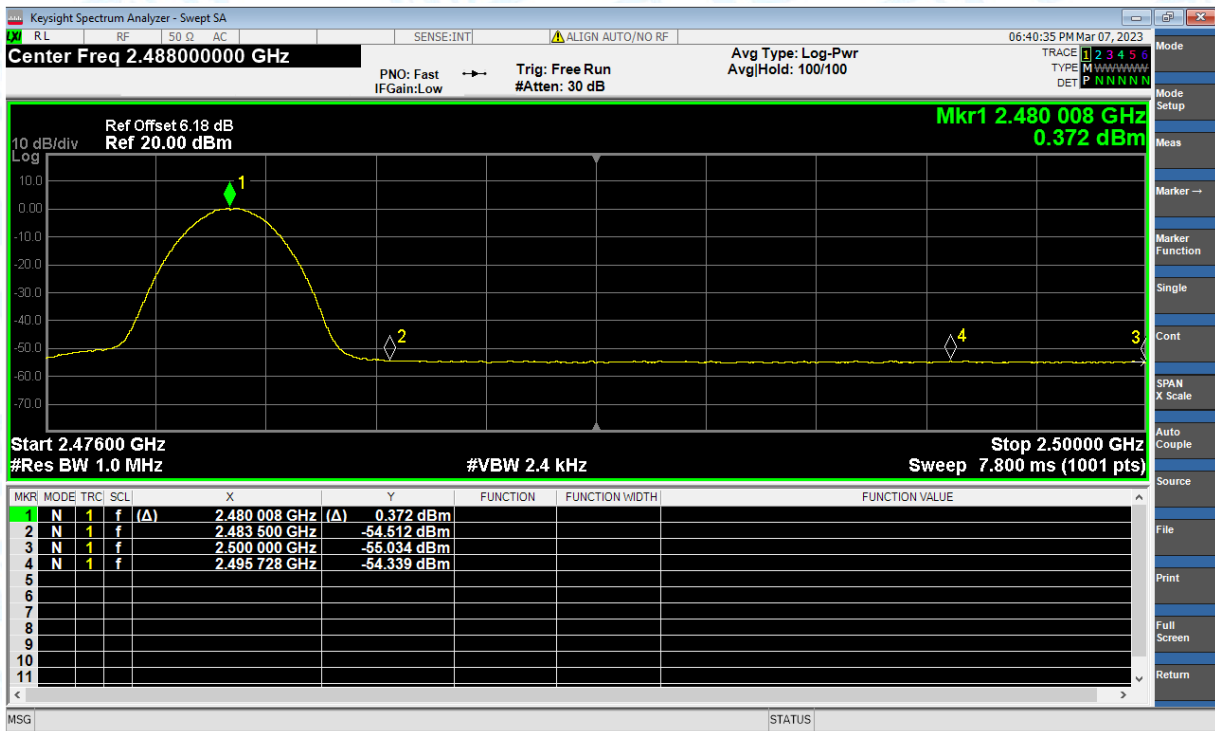
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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



9. Carrier Frequencies Separation

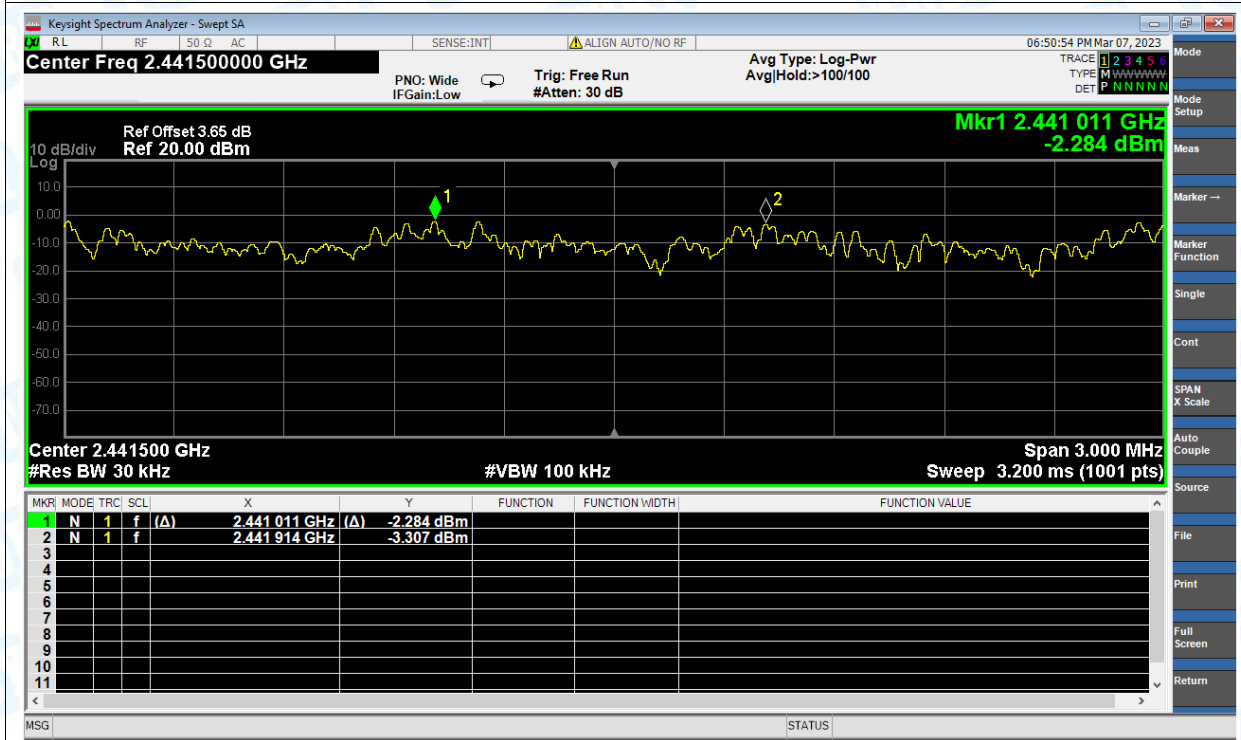
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.99	2441.992	1.002	0.62	Pass
NVNT	2-DH1	Ant1	2441.011	2441.914	0.903	0.847	Pass
NVNT	3-DH1	Ant1	2440.93	2442.004	1.074	0.82	Pass

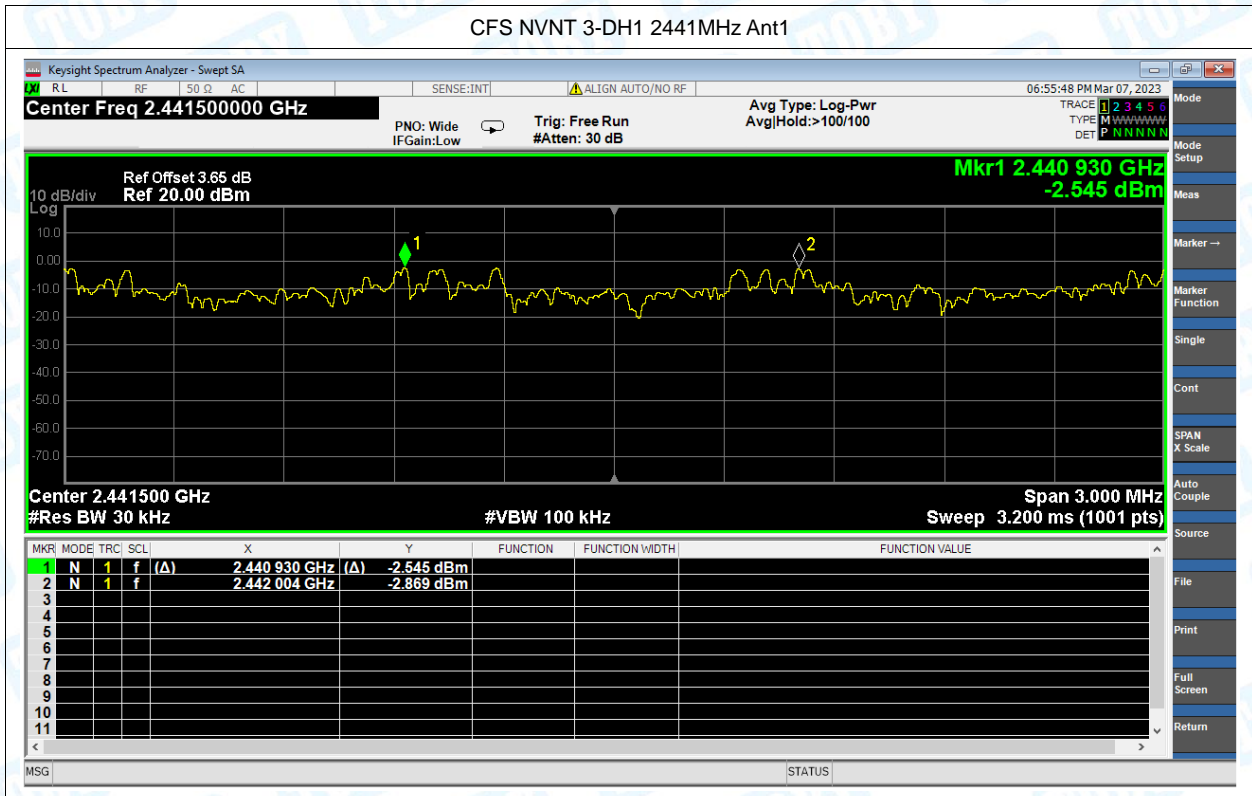
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



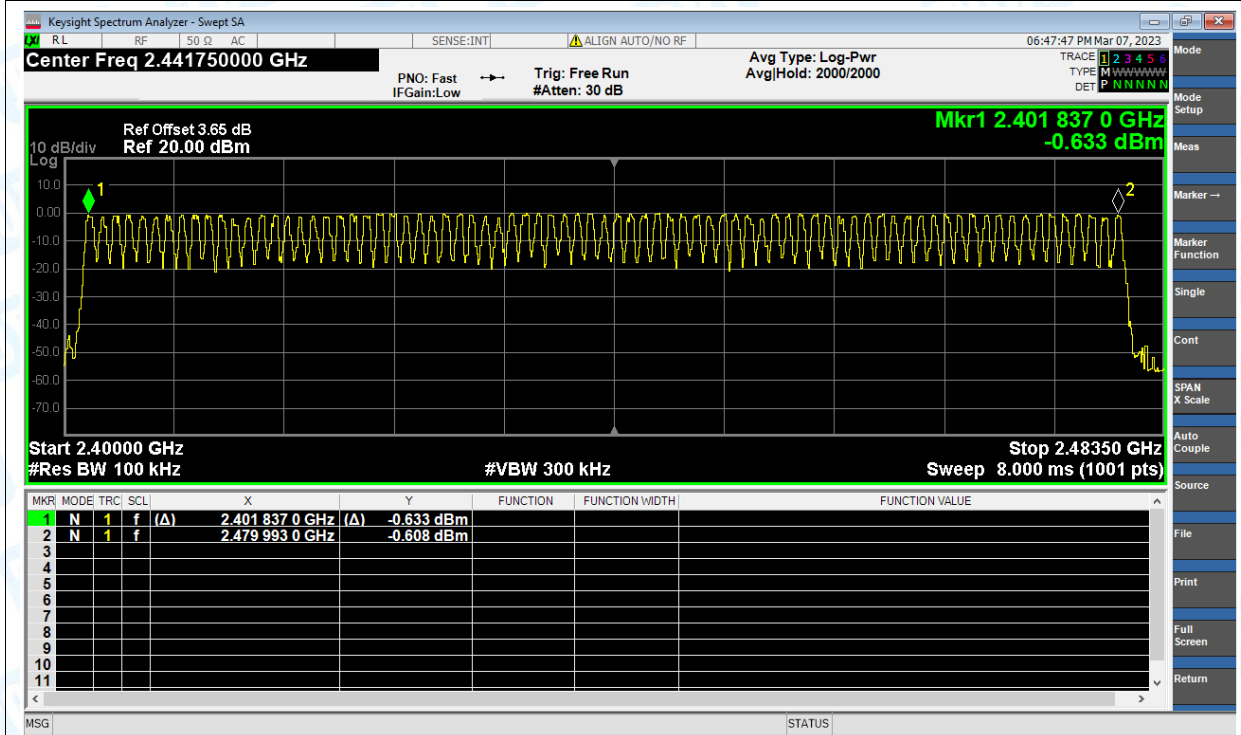


10. Number of Hopping Channel

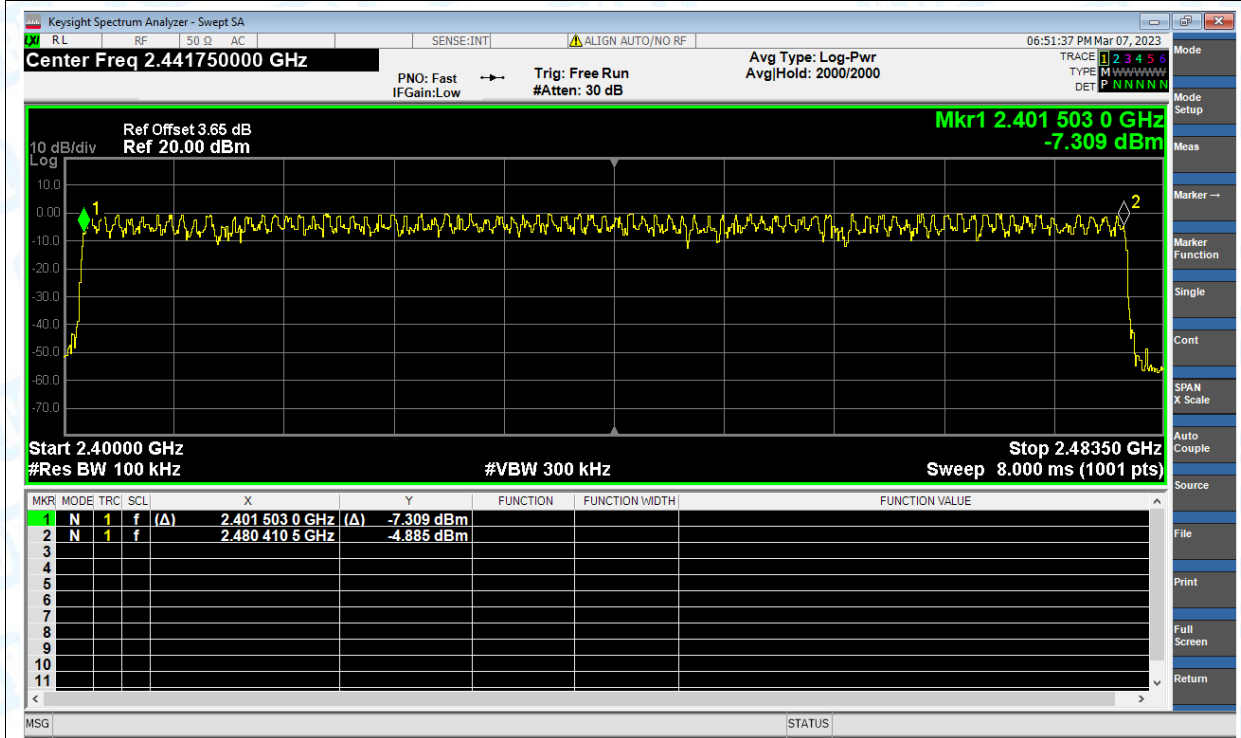
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

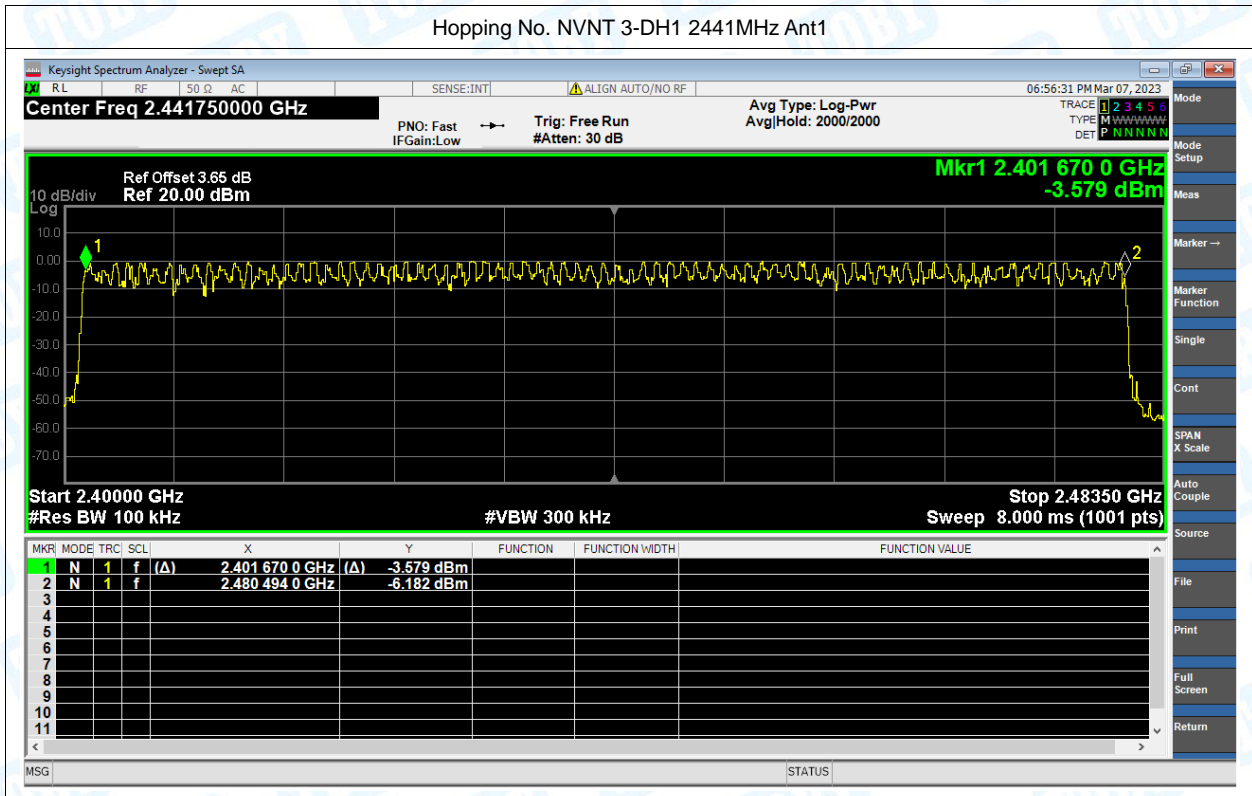
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



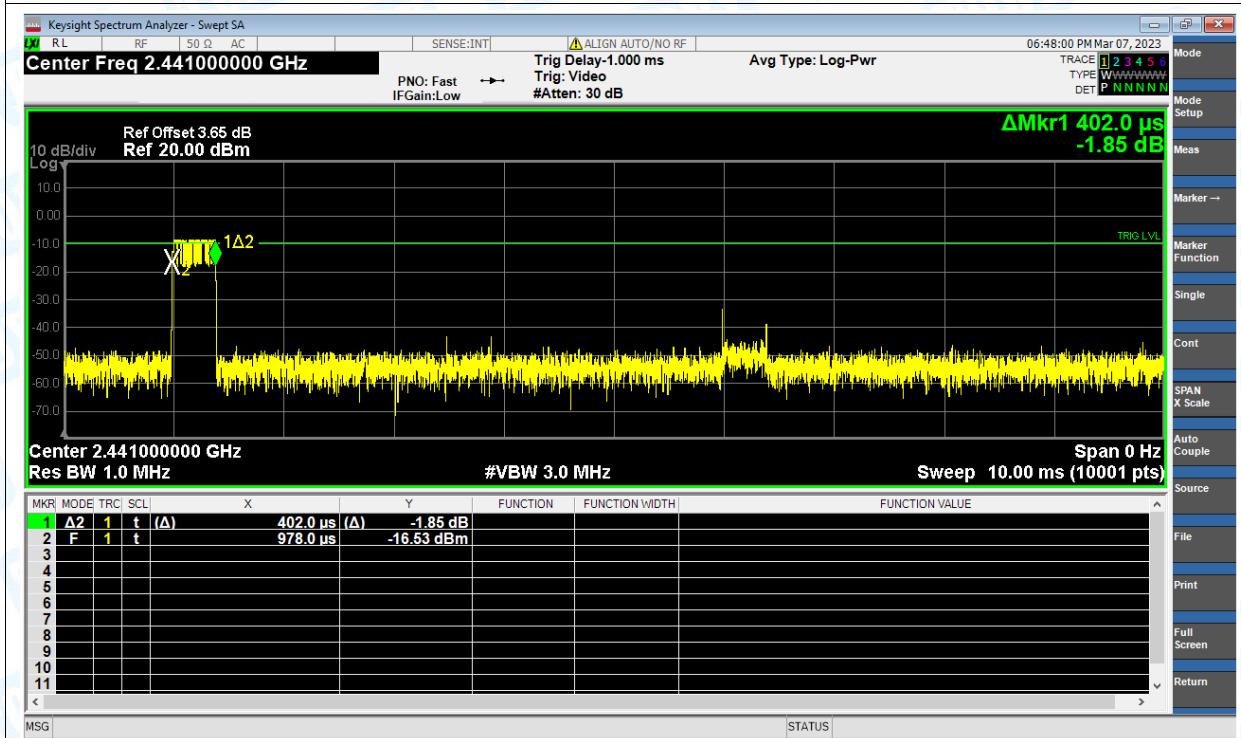


11. Dwell Time

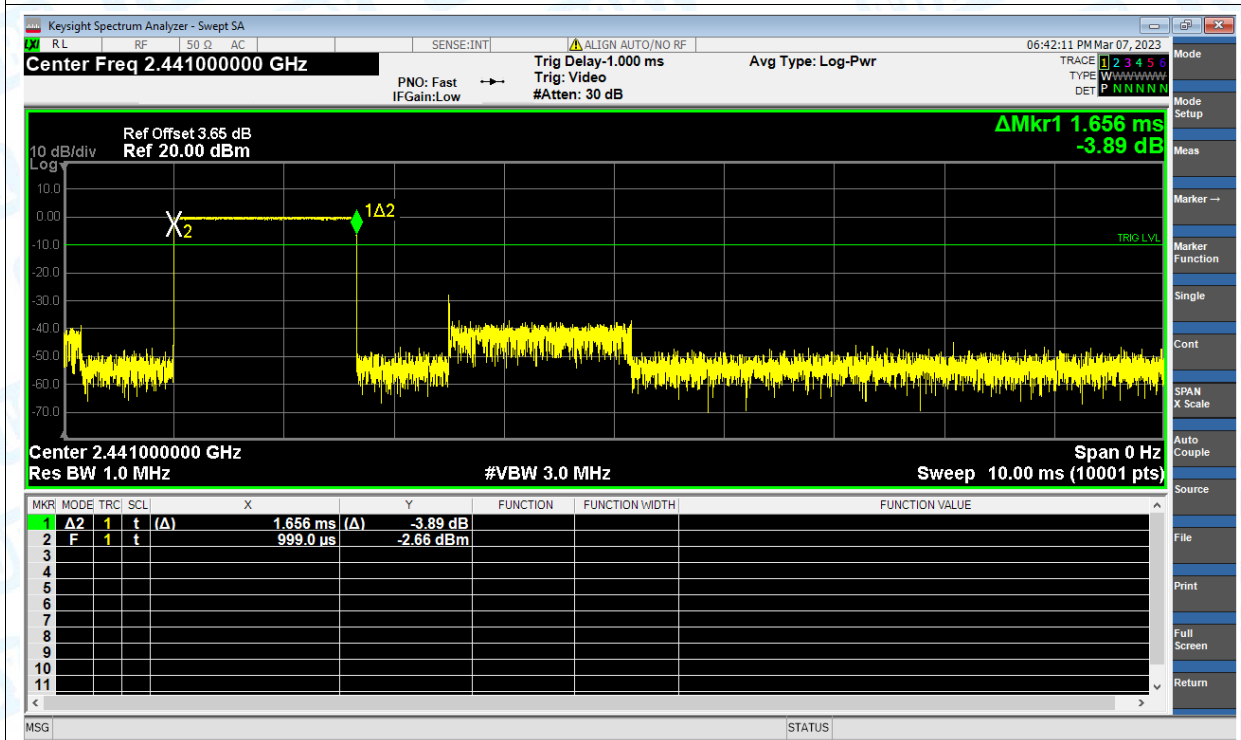
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.402	128.64	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.656	264.96	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.904	309.76	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.41	131.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.663	266.08	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.908	310.187	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.408	130.56	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.66	265.6	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.909	310.293	31600	400	Pass

Test Graphs

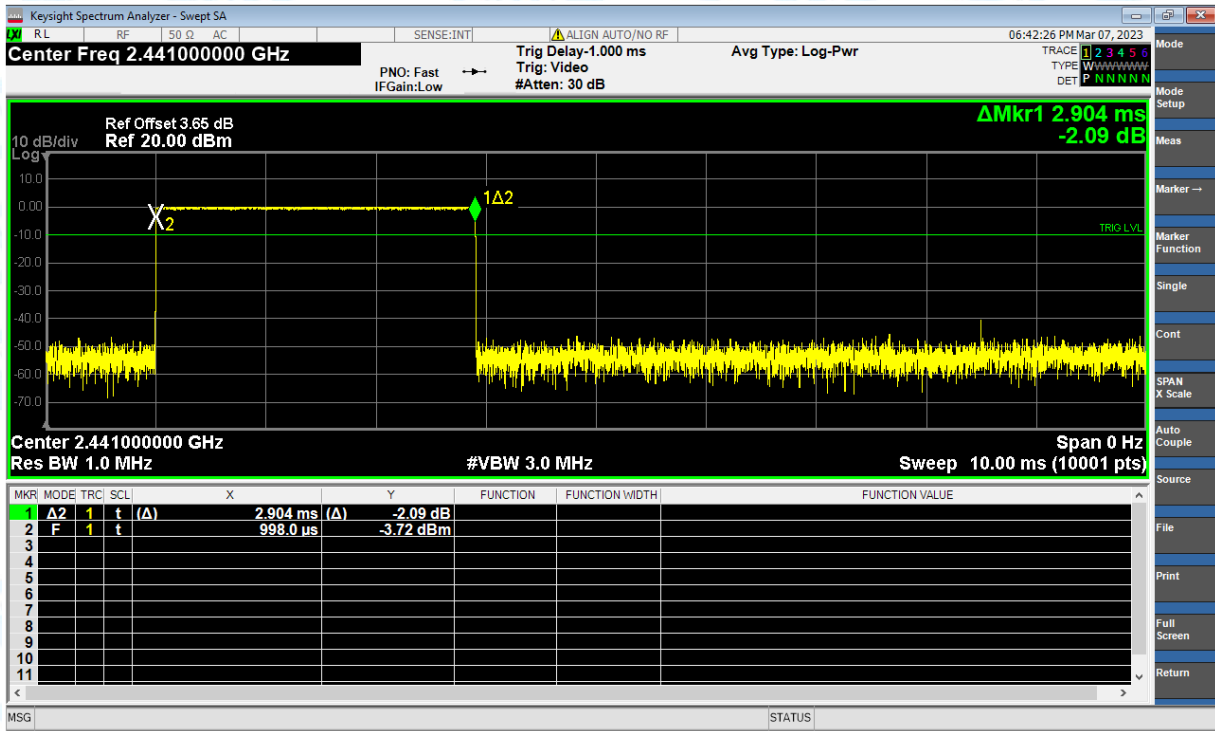
Dwell NVNT 1-DH1 2441MHz Ant1



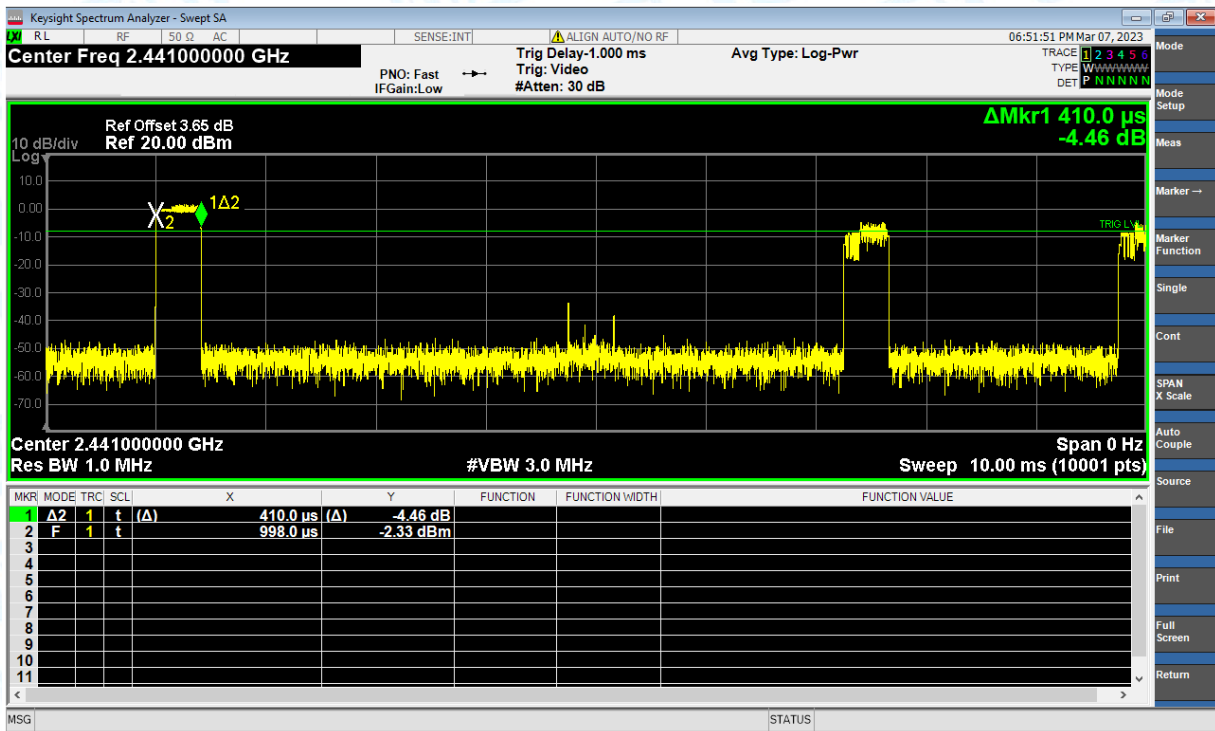
Dwell NVNT 1-DH3 2441MHz Ant1



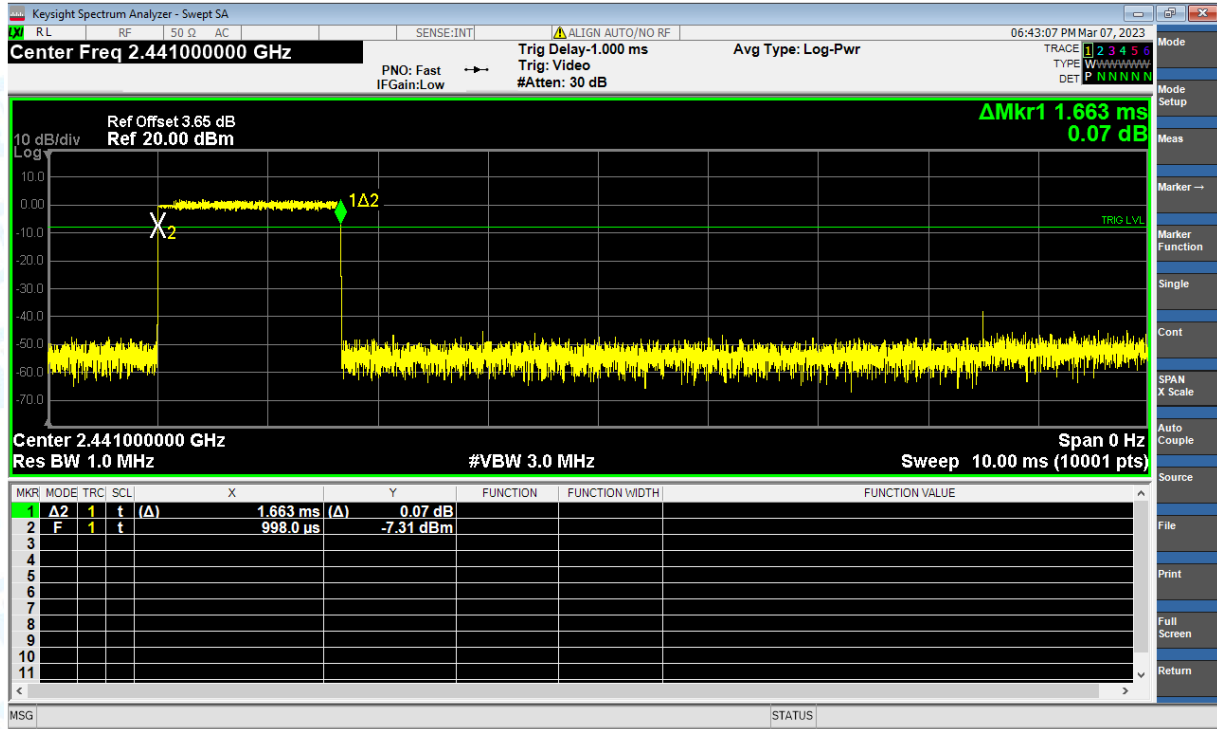
Dwell NVNT 1-DH5 2441MHz Ant1



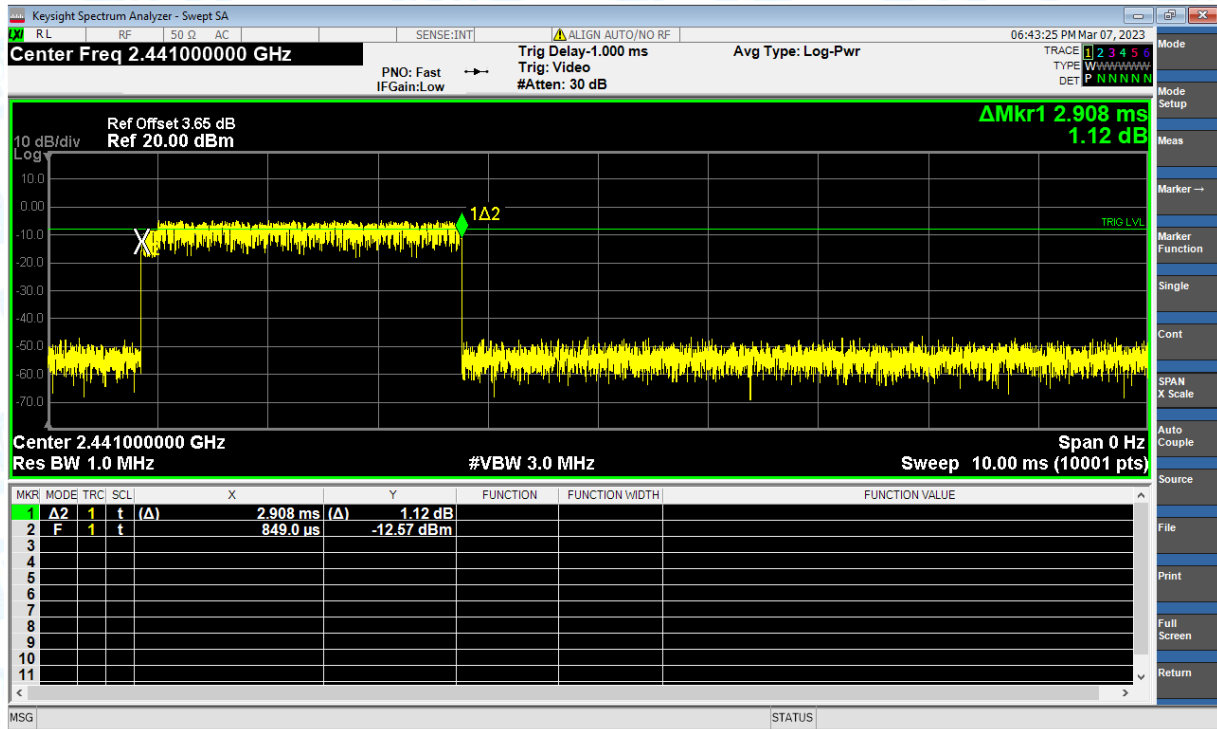
Dwell NVNT 2-DH1 2441MHz Ant1



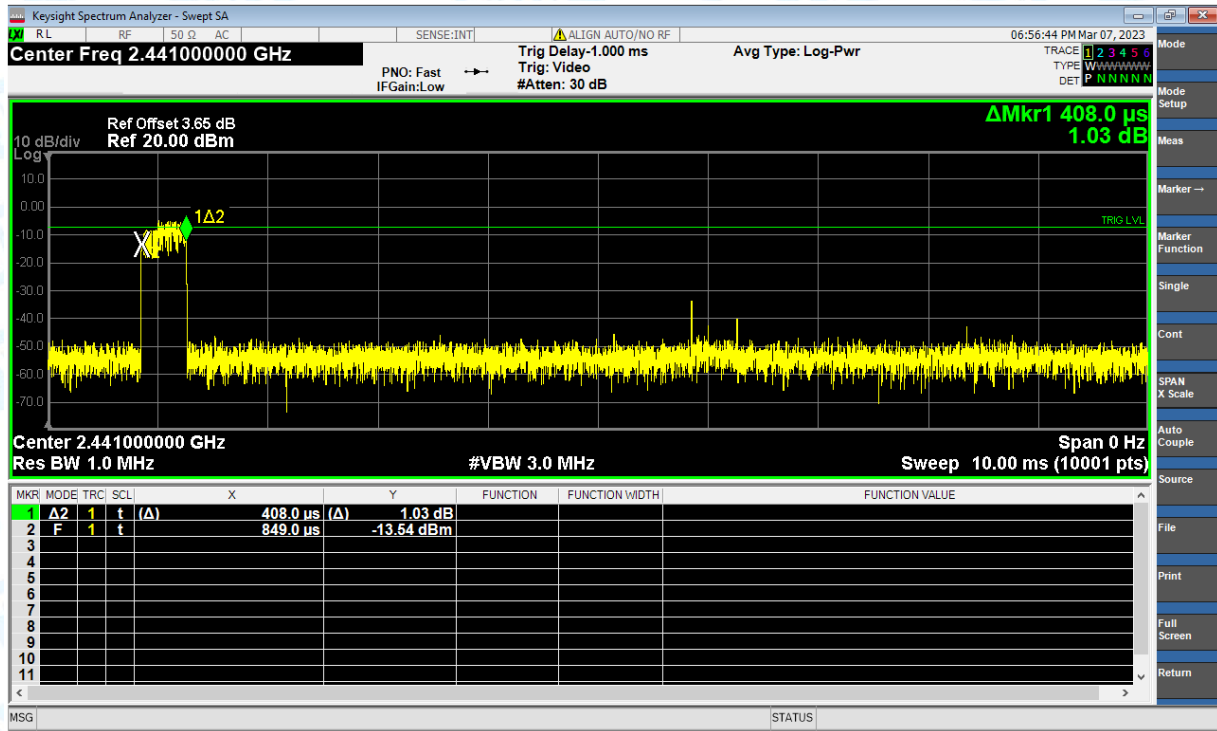
Dwell NVNT 2-DH3 2441MHz Ant1



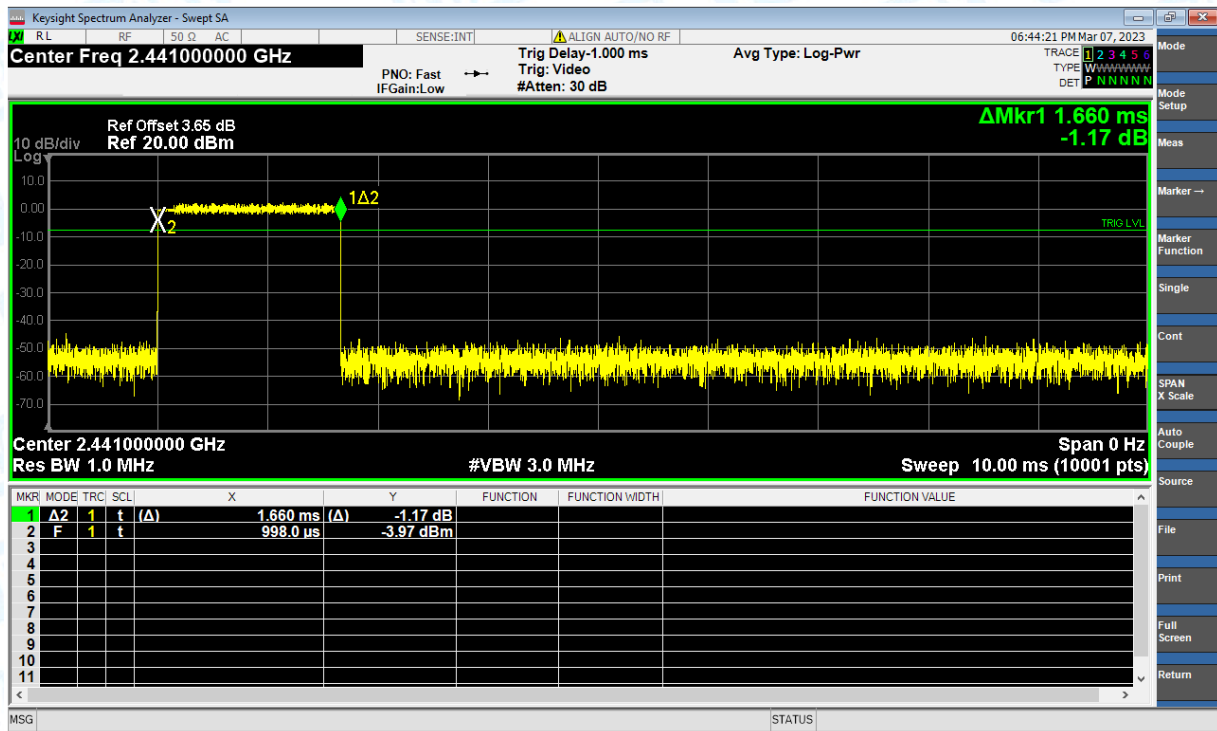
Dwell NVNT 2-DH5 2441MHz Ant1

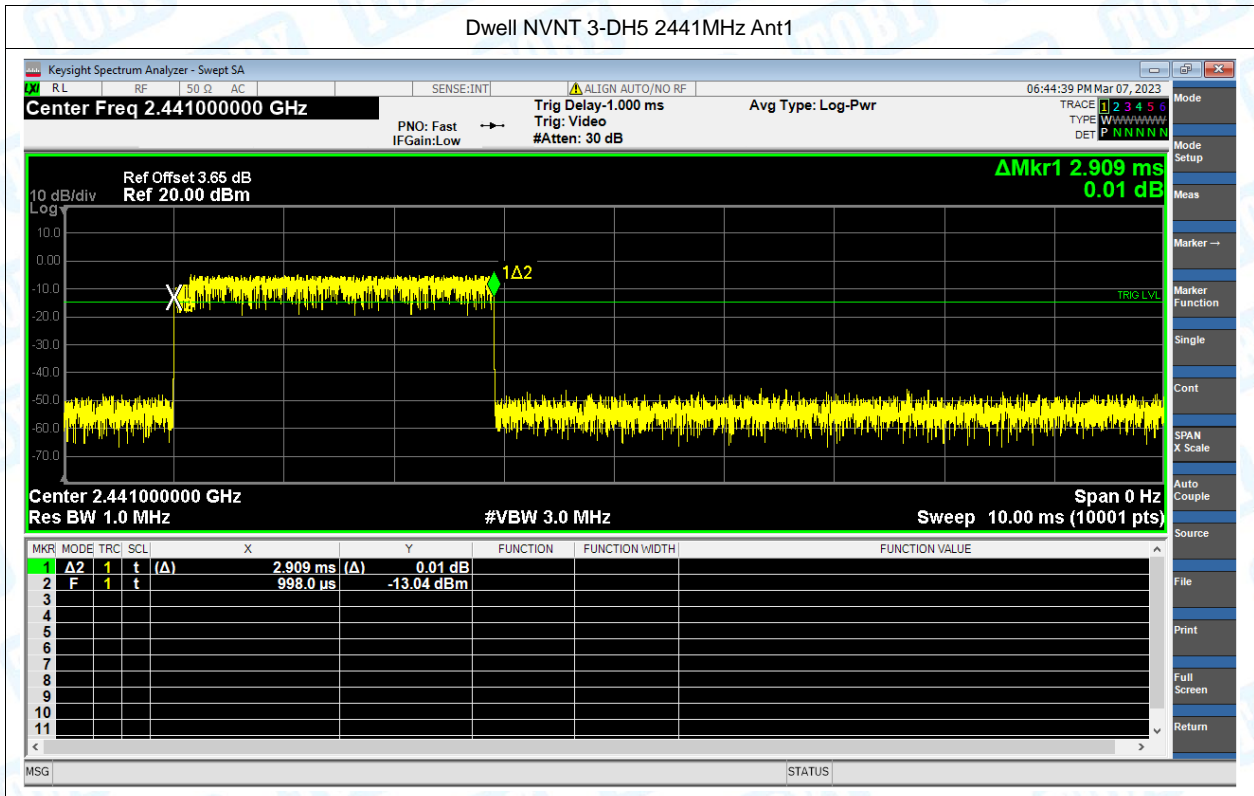


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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