

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

General Description of EUT	
Product Name:	Kids Tablet
Test Model:	AT70K
Sample ID:	RW-C-202312-0324-7-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	Li ying jing
Note: For a more detailed features description, please refer to the report TBR-C-202312-0324-21 The report only show the worst case data.	

Contents

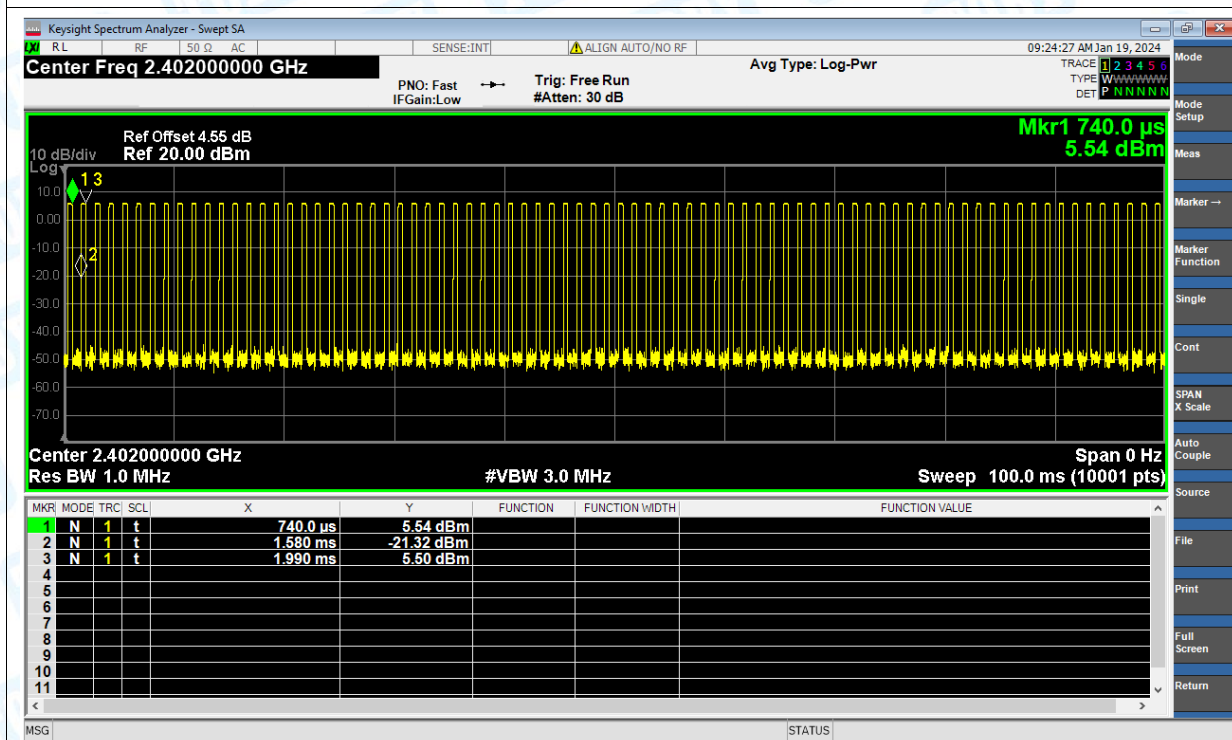
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1. Duty Cycle

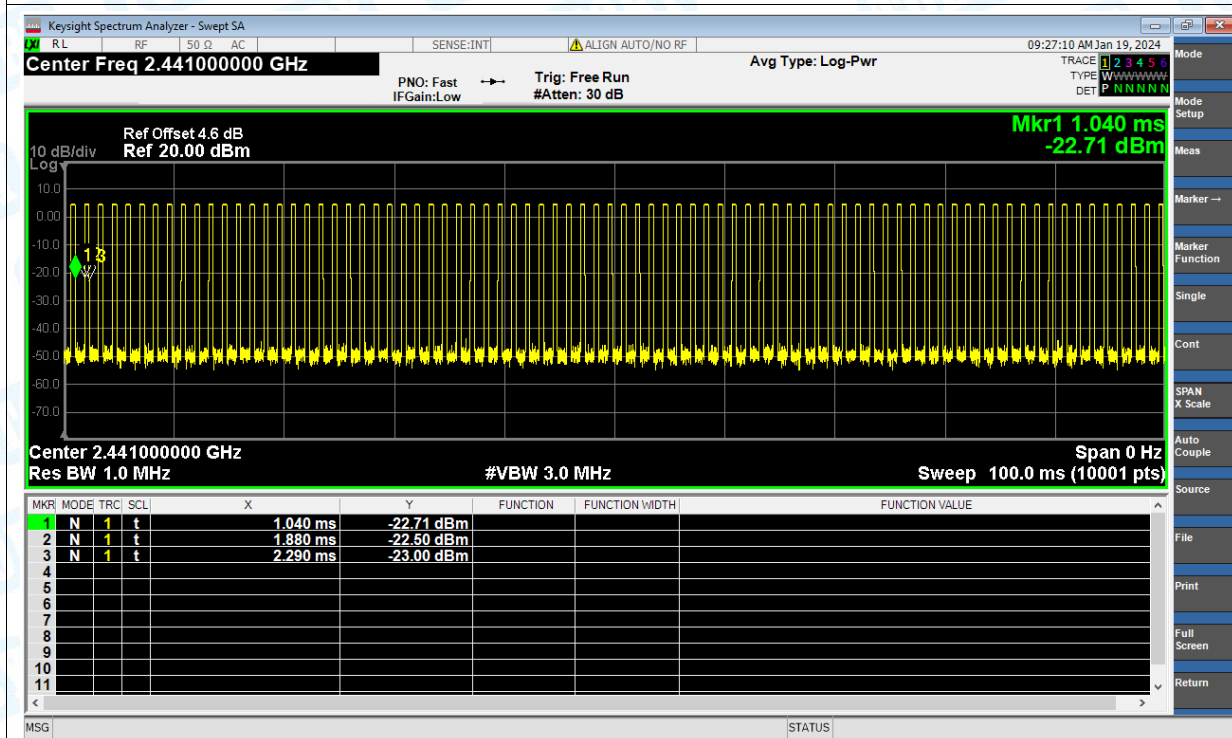
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2480	Ant1	30.4	5.17	2.63

Test Graphs

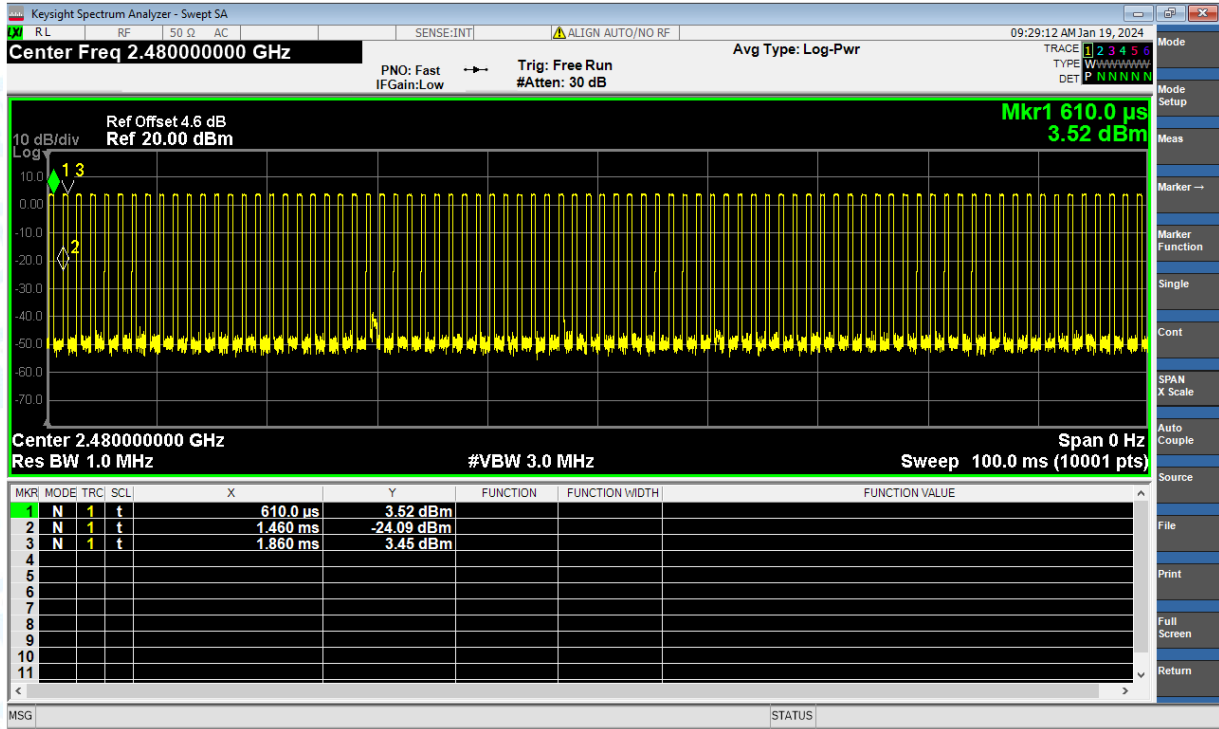
Duty Cycle NVNT 1-DH1 2402MHz Ant1



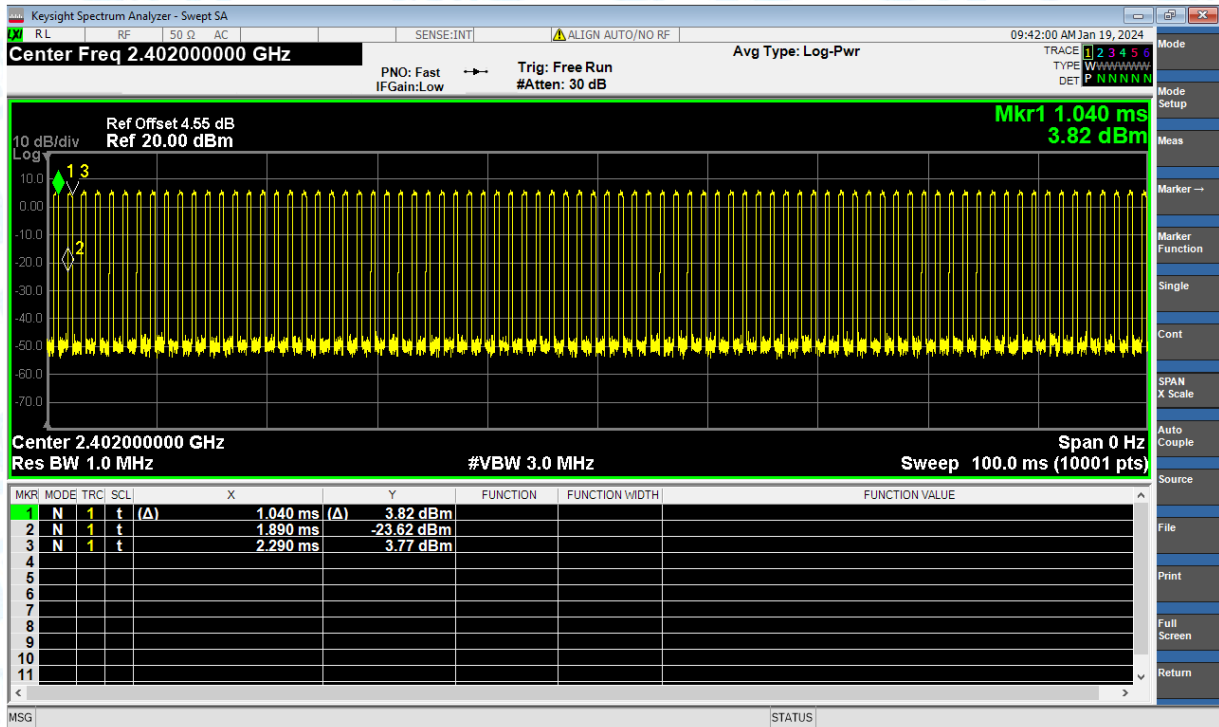
Duty Cycle NVNT 1-DH1 2441MHz Ant1



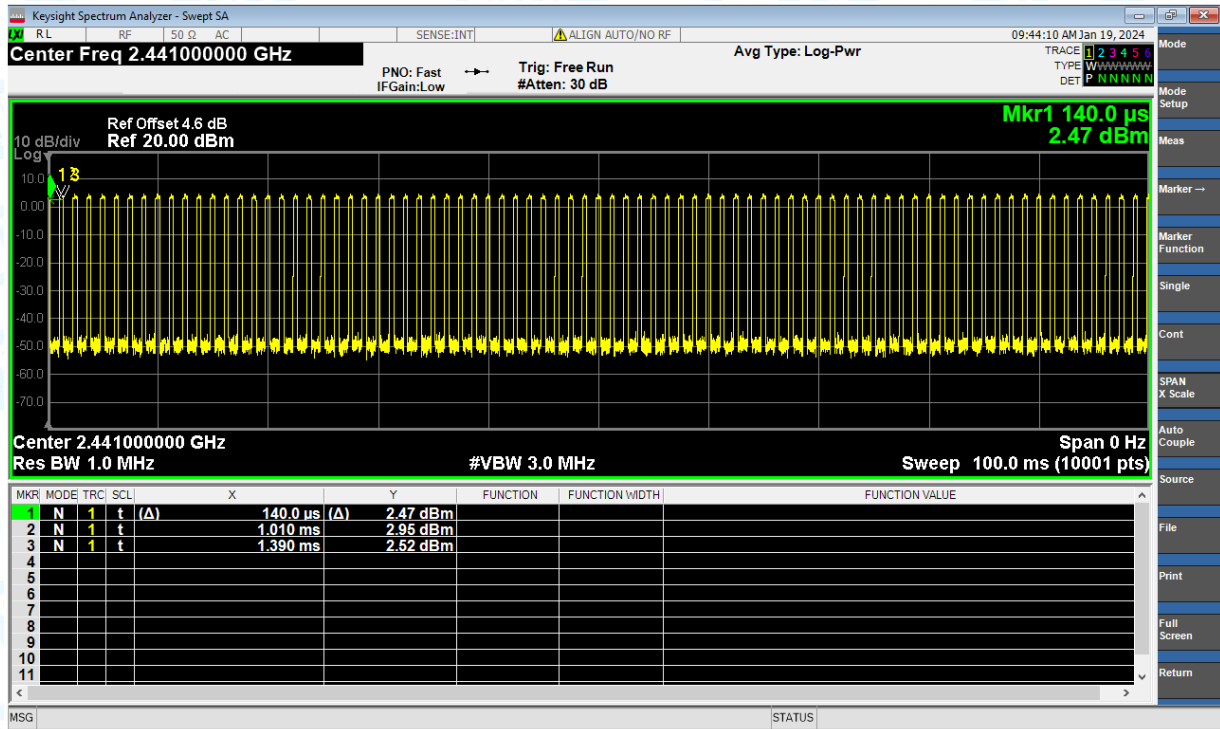
Duty Cycle NVNT 1-DH1 2480MHz Ant1



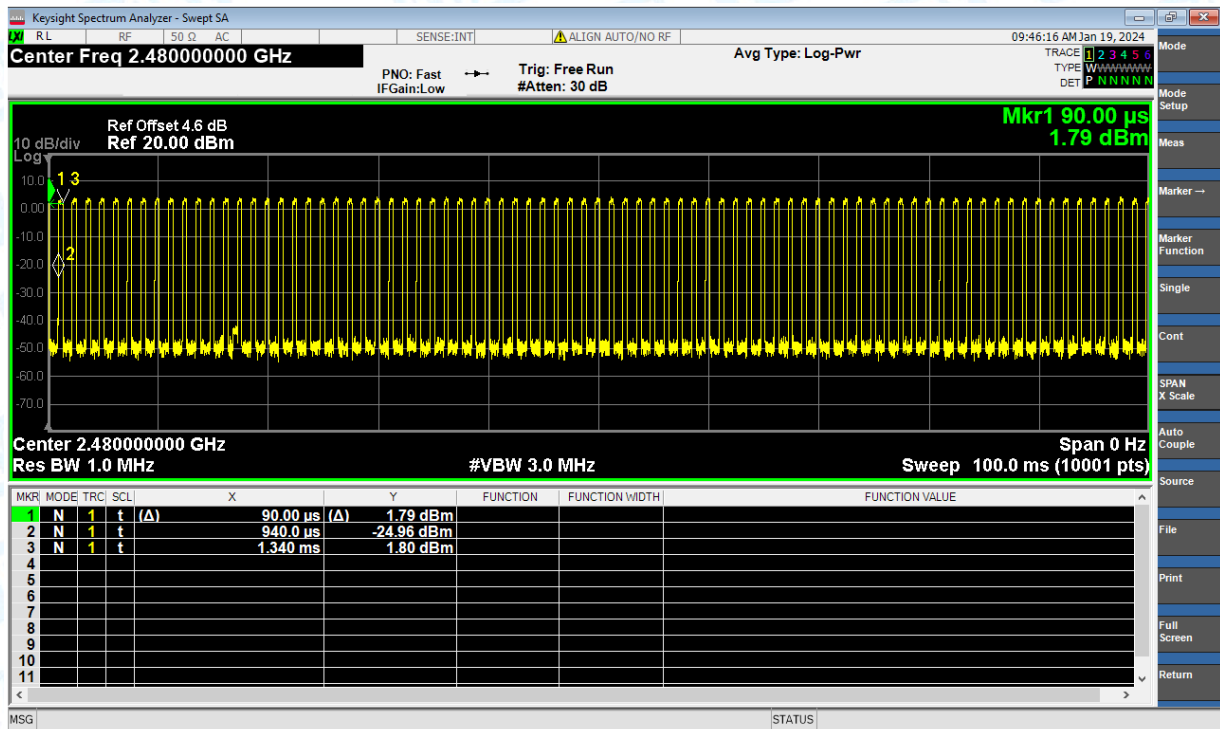
Duty Cycle NVNT 2-DH1 2402MHz Ant1



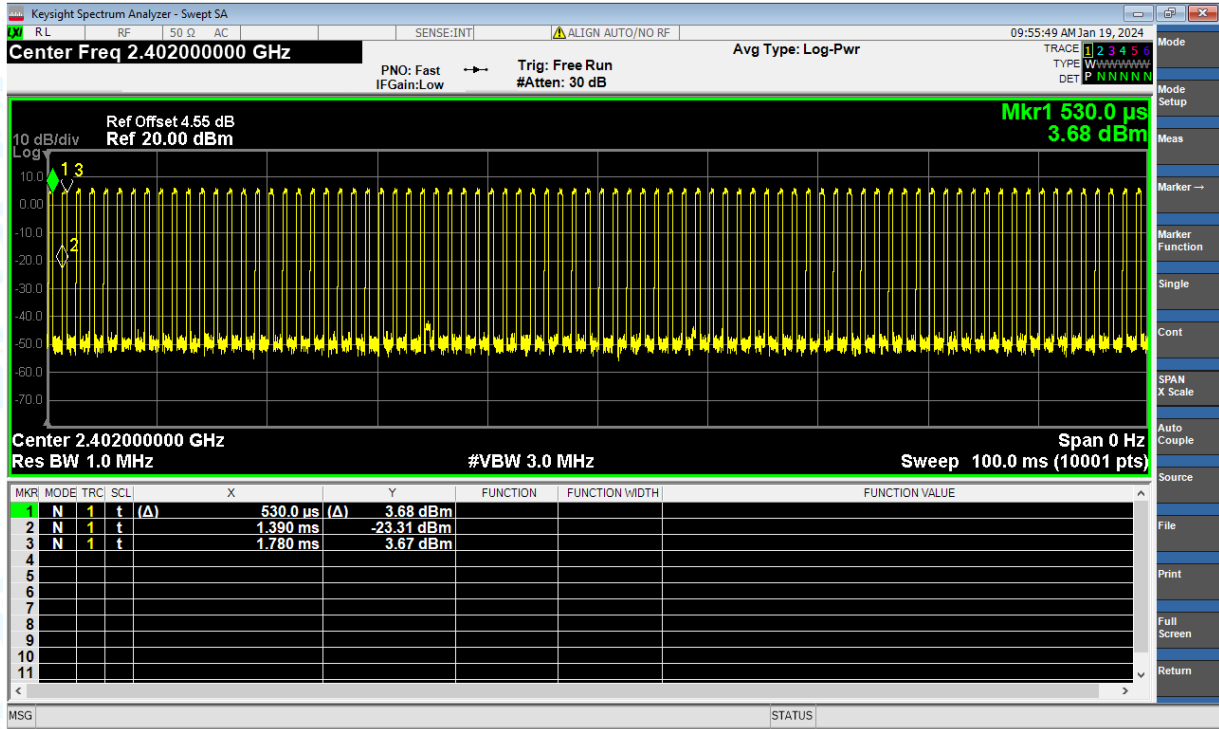
Duty Cycle NVNT 2-DH1 2441MHz Ant1



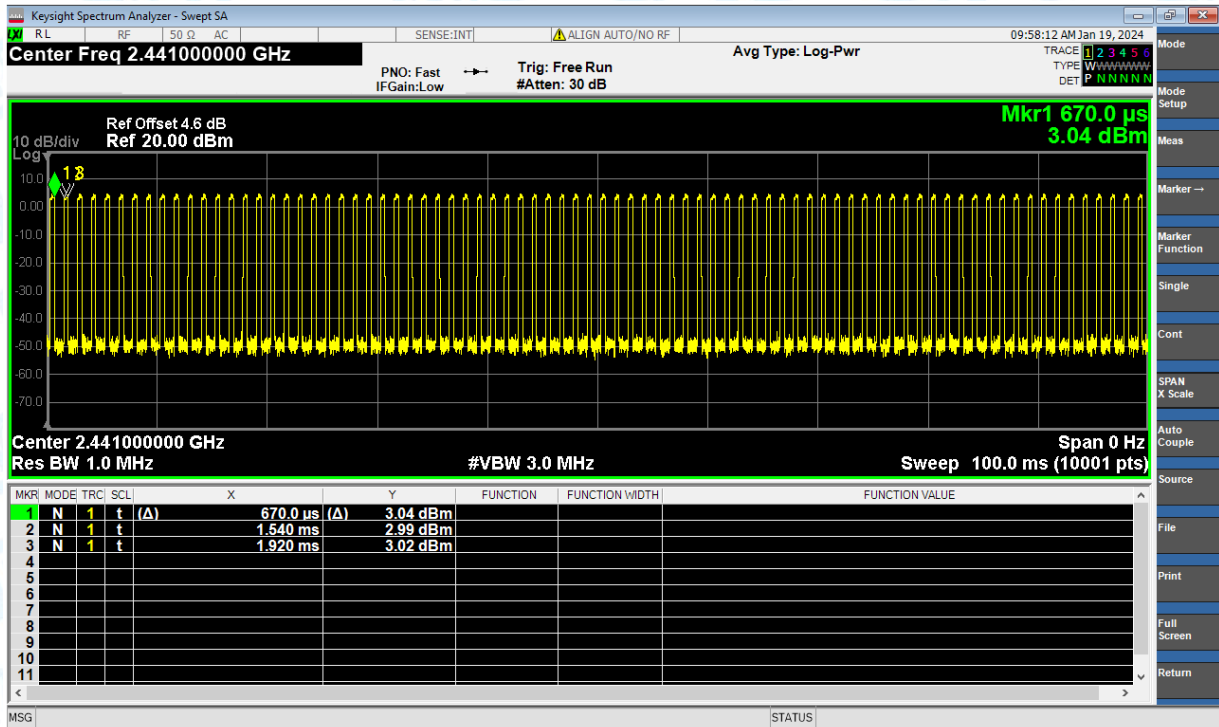
Duty Cycle NVNT 2-DH1 2480MHz Ant1

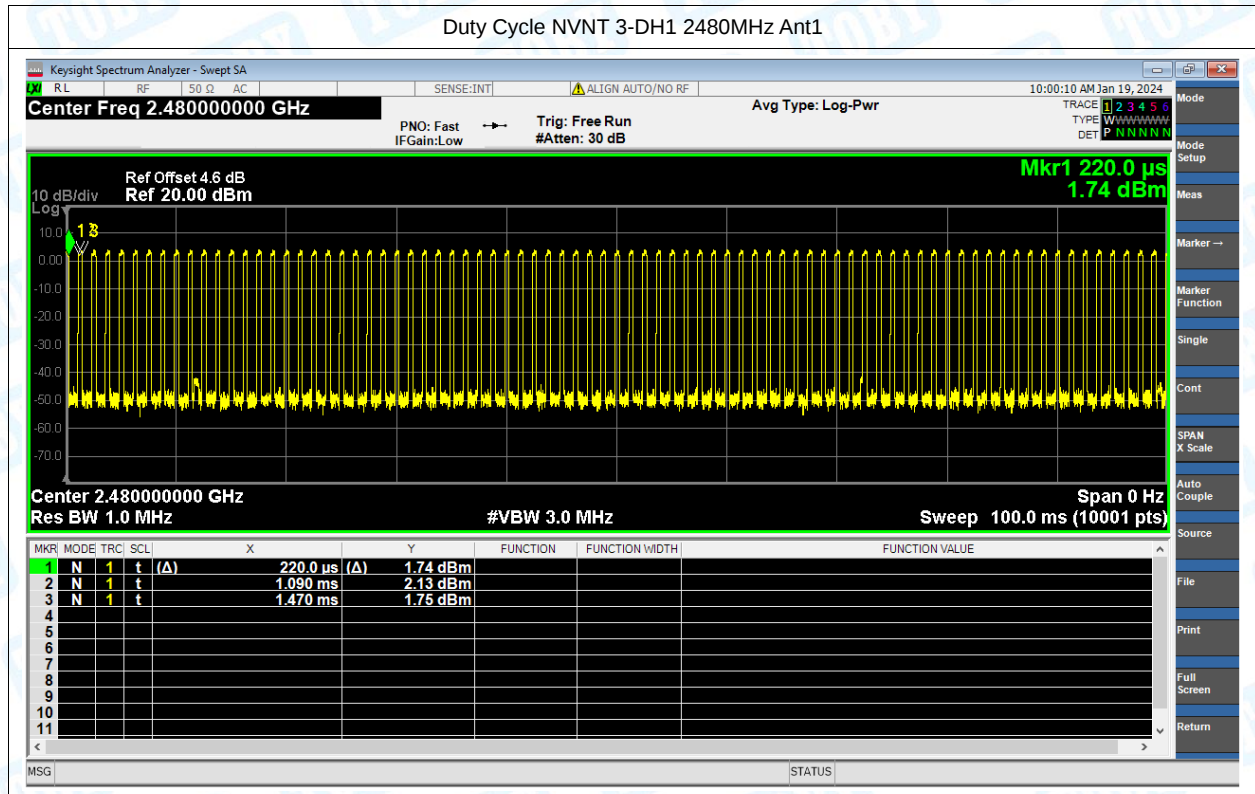


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



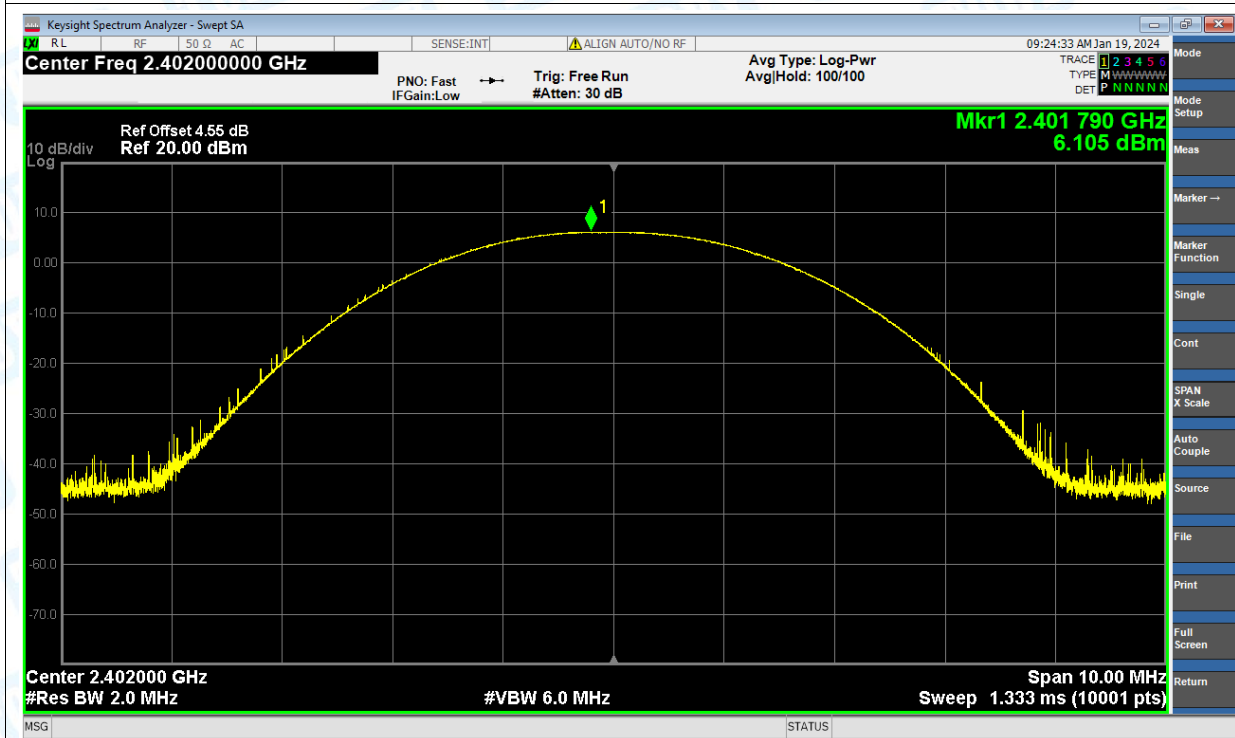


2. Maximum Conducted Output Power

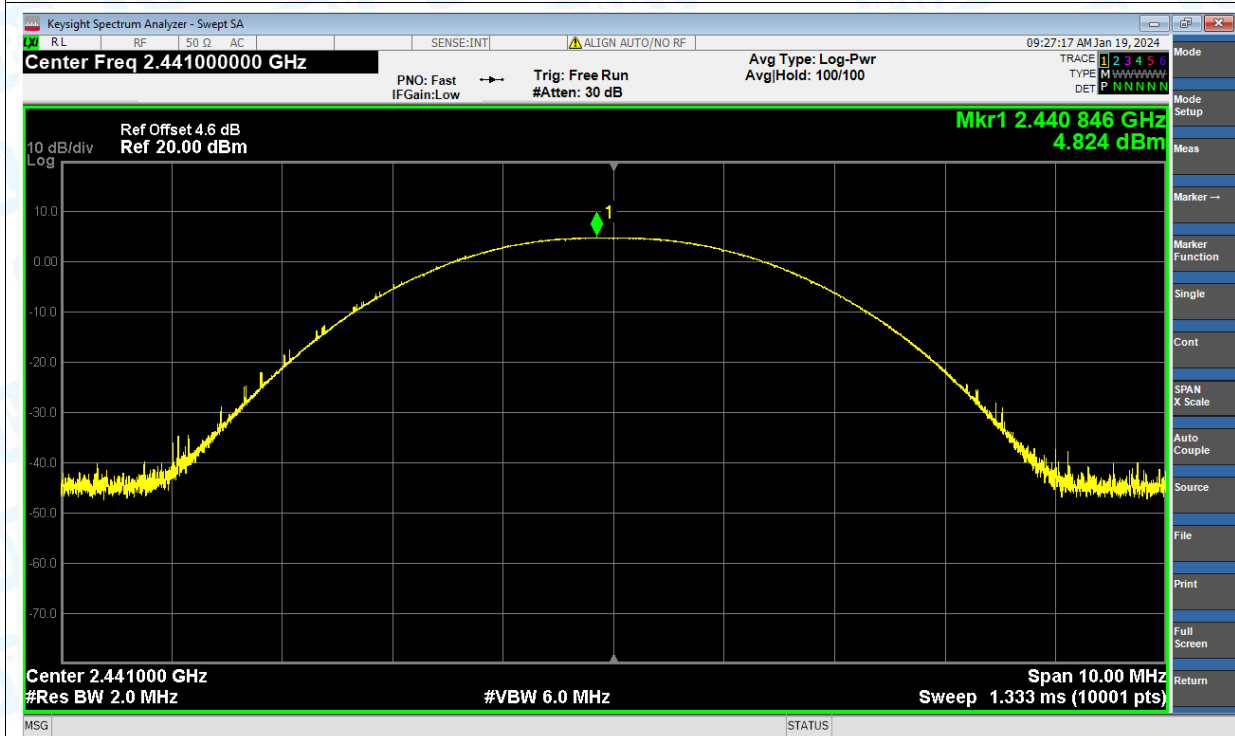
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	6.105	21	Pass
NVNT	1-DH1	2441	Ant1	4.824	21	Pass
NVNT	1-DH1	2480	Ant1	4.062	21	Pass
NVNT	2-DH1	2402	Ant1	6.107	21	Pass
NVNT	2-DH1	2441	Ant1	5.276	21	Pass
NVNT	2-DH1	2480	Ant1	4.747	21	Pass
NVNT	3-DH1	2402	Ant1	6.546	21	Pass
NVNT	3-DH1	2441	Ant1	5.356	21	Pass
NVNT	3-DH1	2480	Ant1	4.646	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



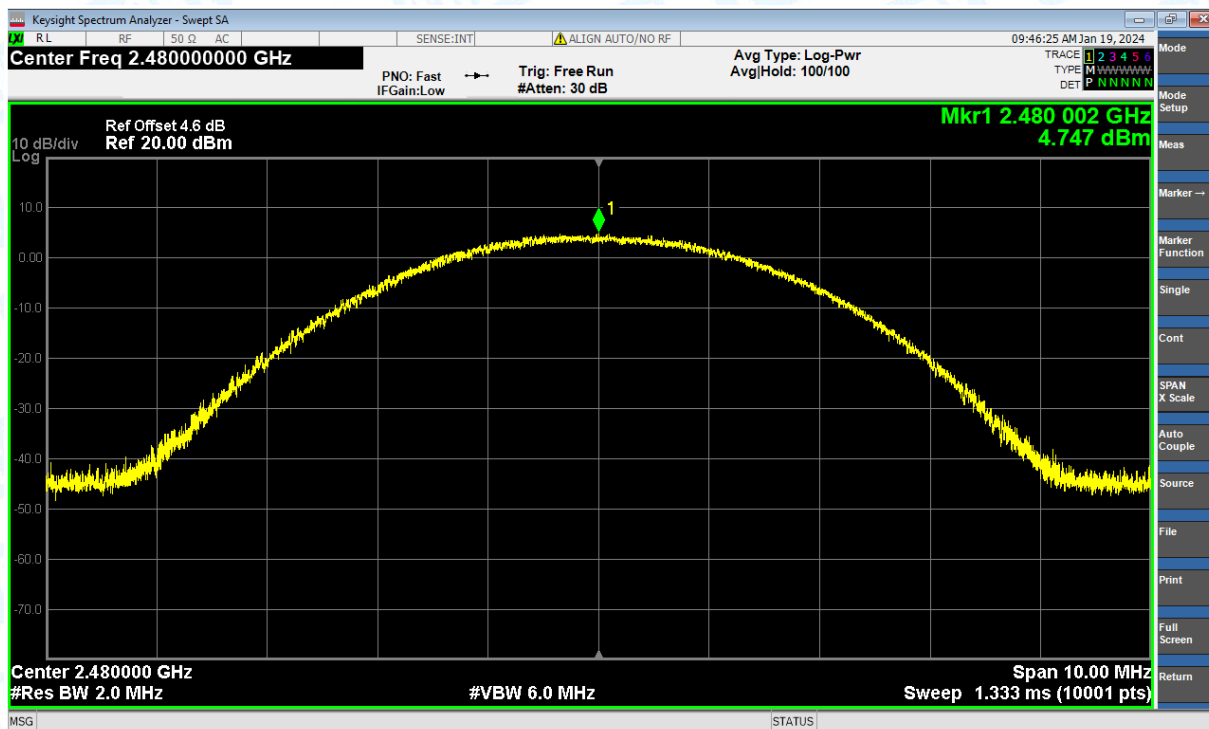
Power NVNT 2-DH1 2402MHz Ant1



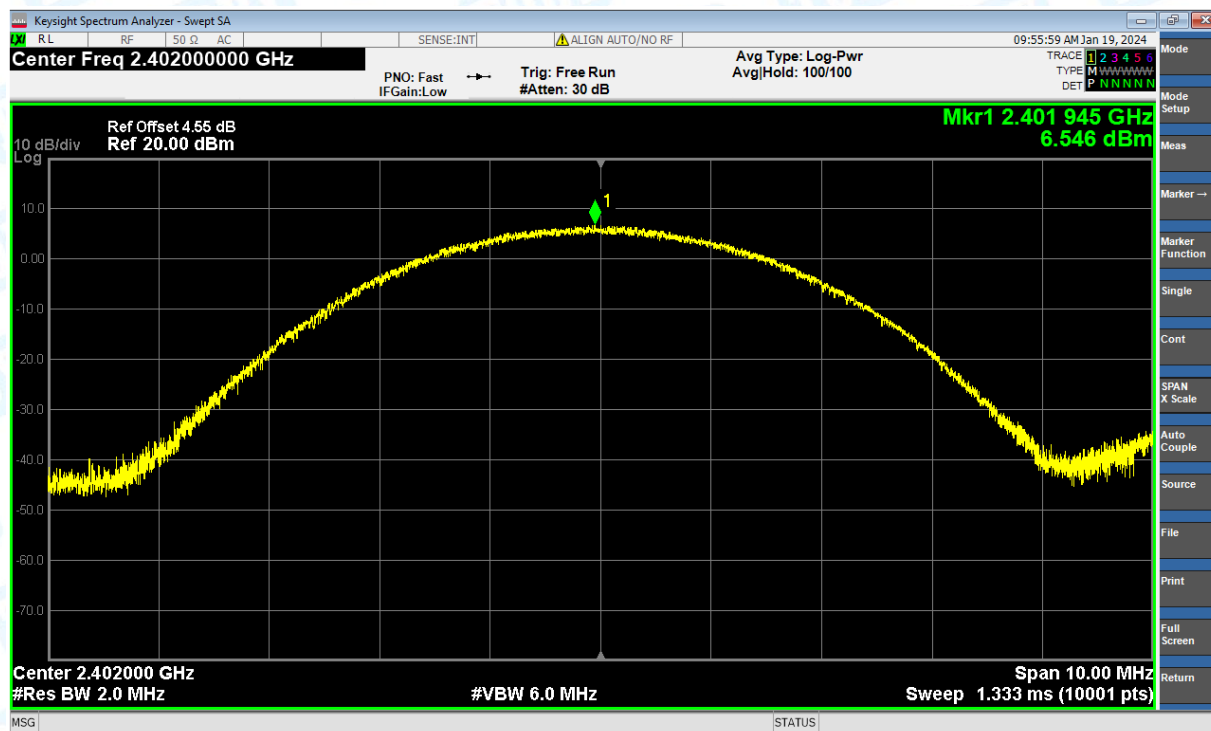
Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



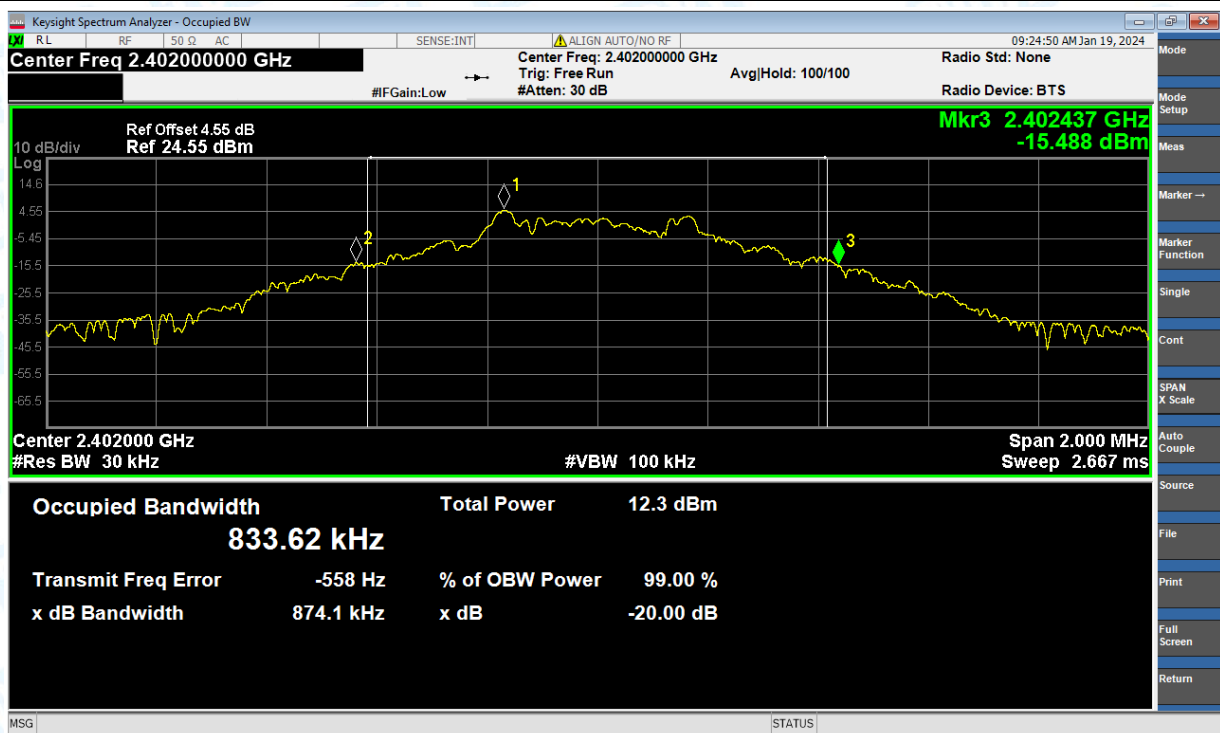


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.86	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.26	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.24	0	Pass
NVNT	3-DH1	2480	Ant1	1.26	0	Pass

Test Graphs

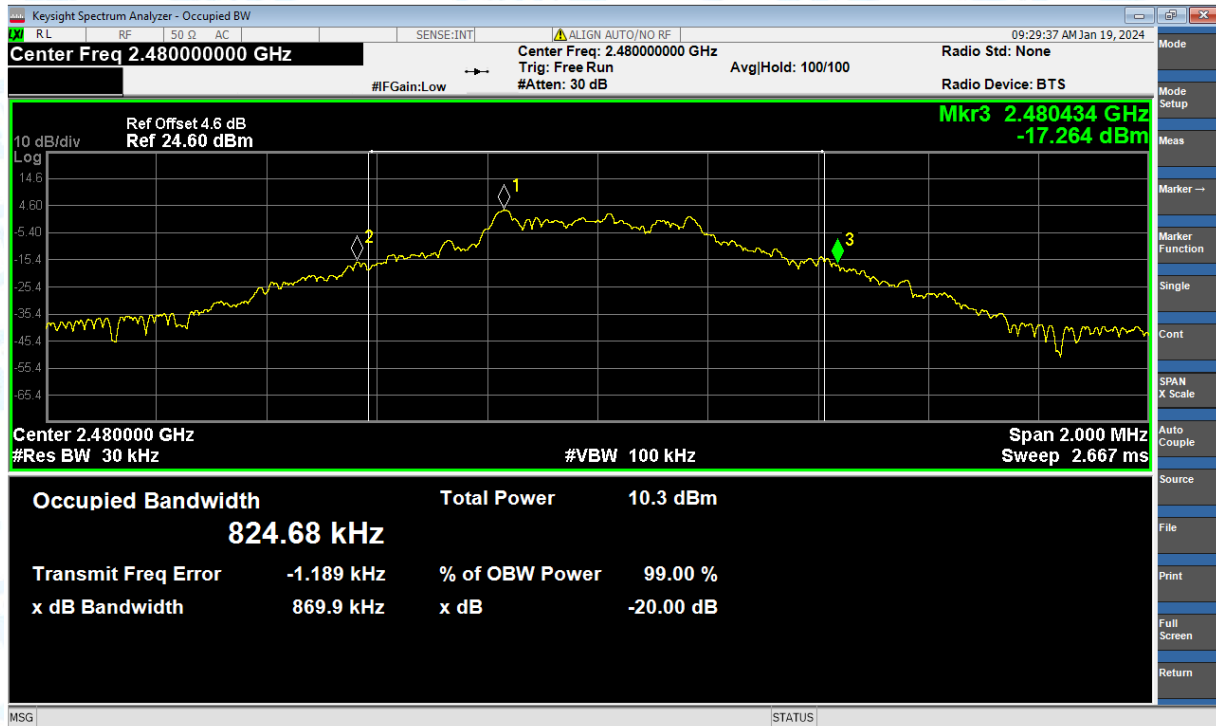
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



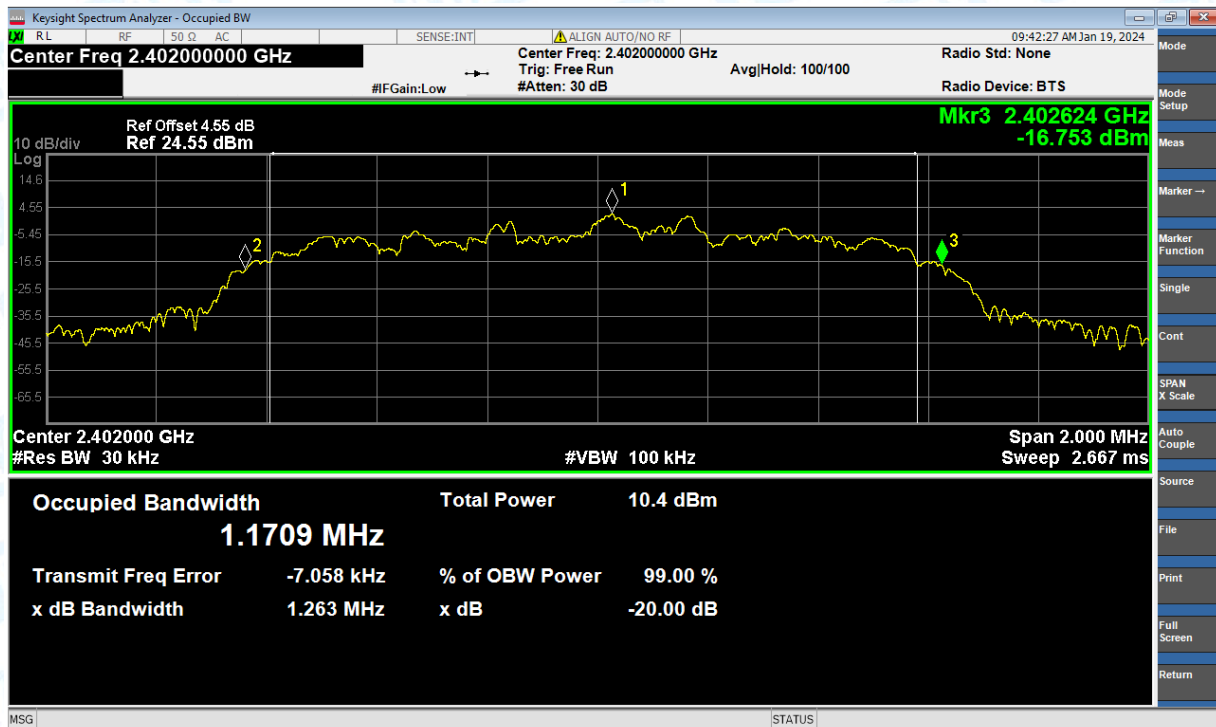
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



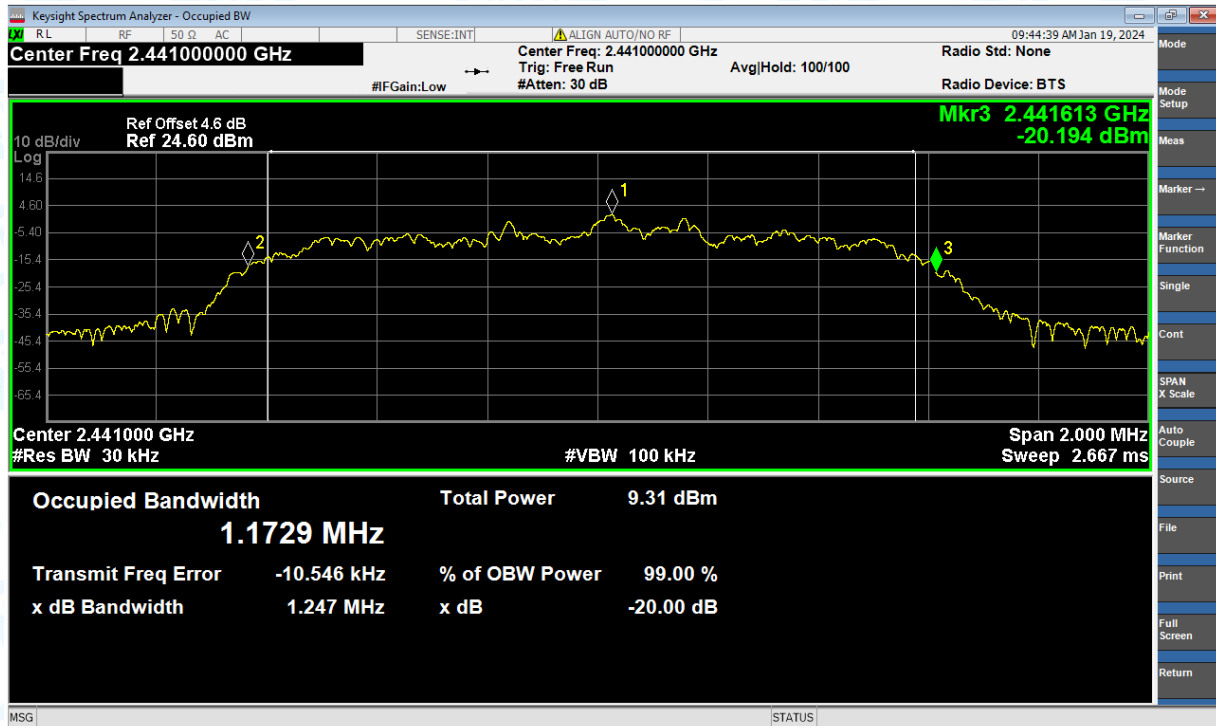
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



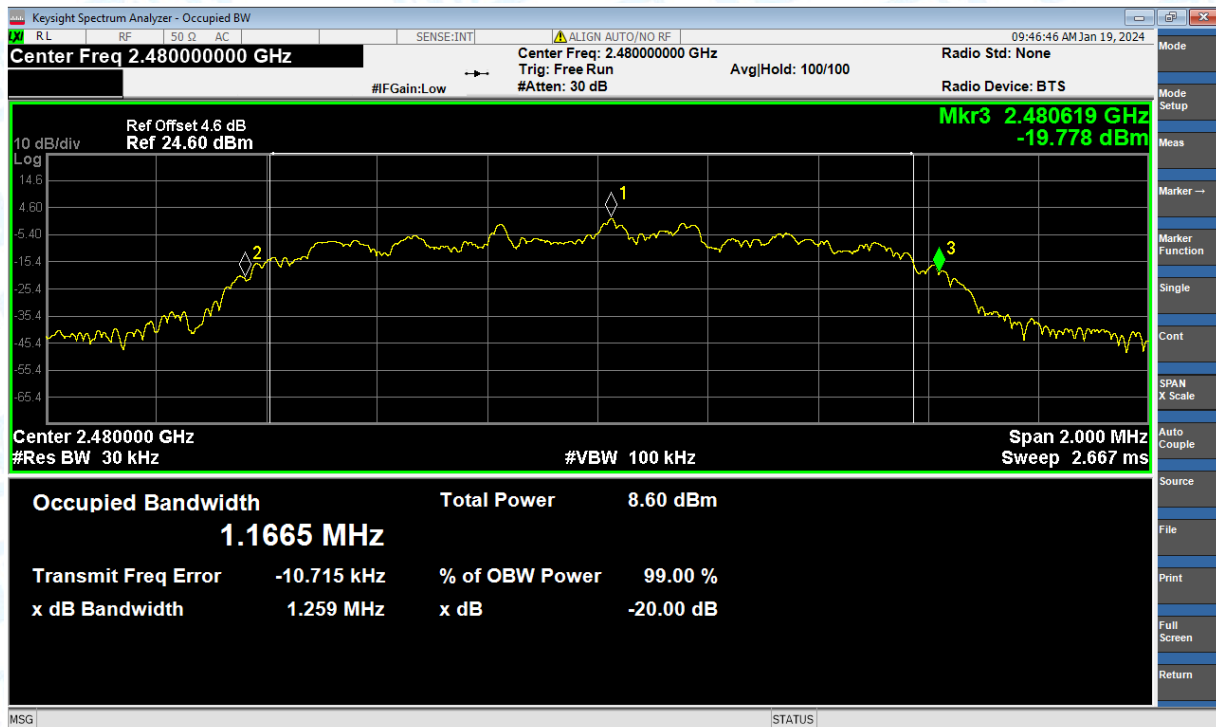
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



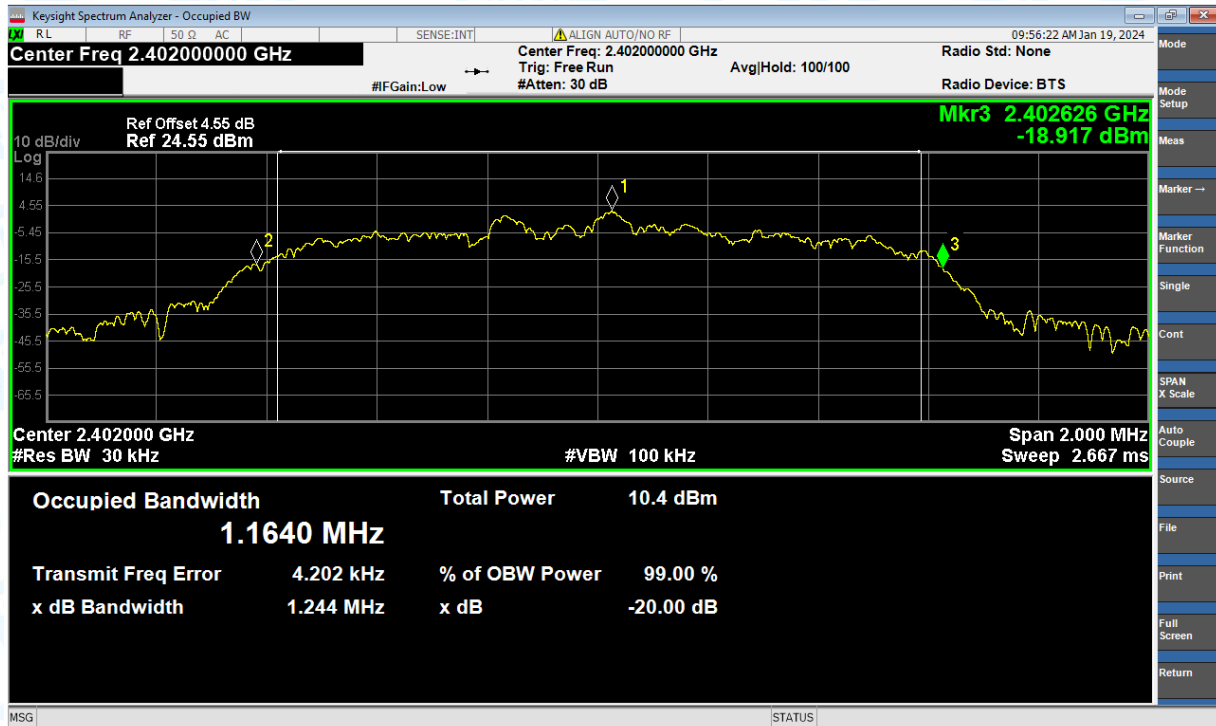
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



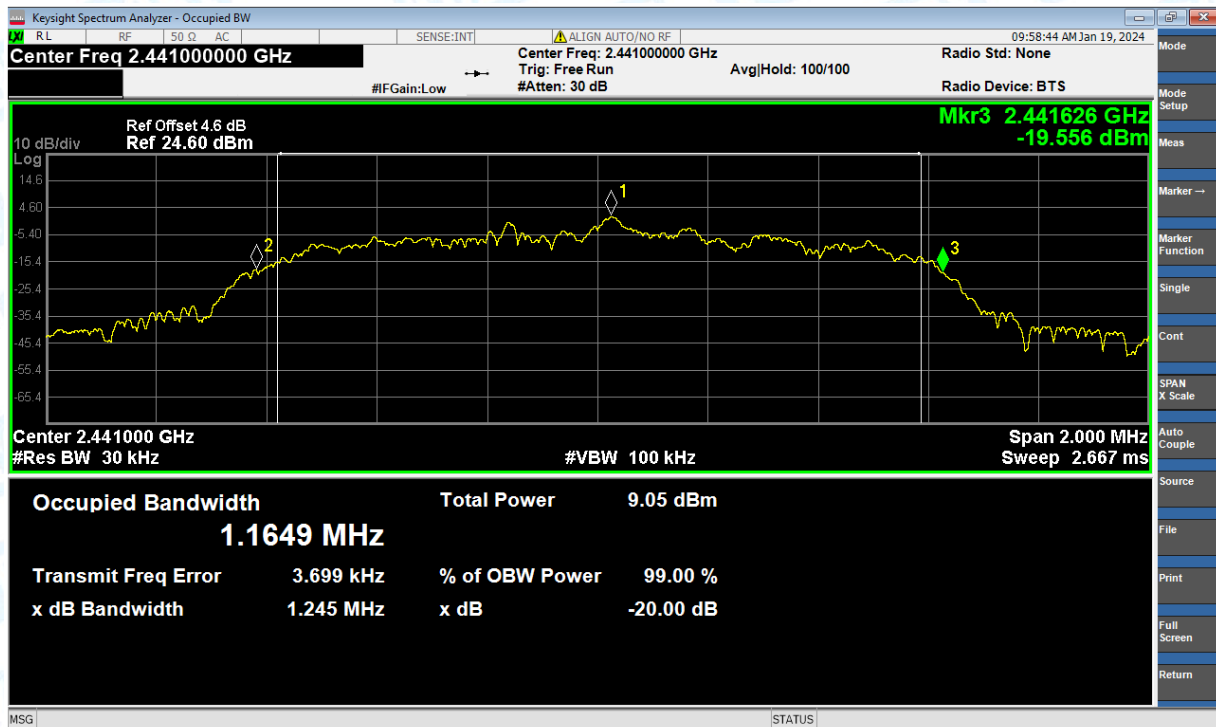
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

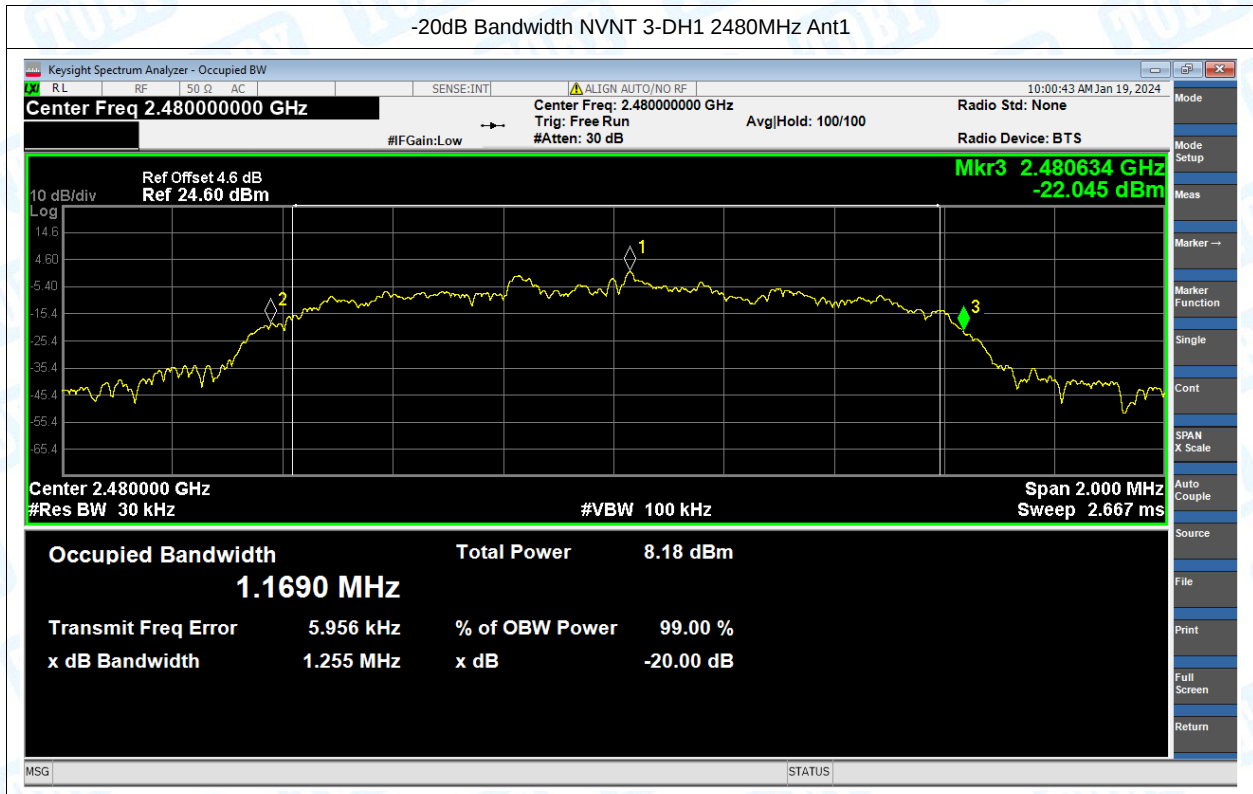


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



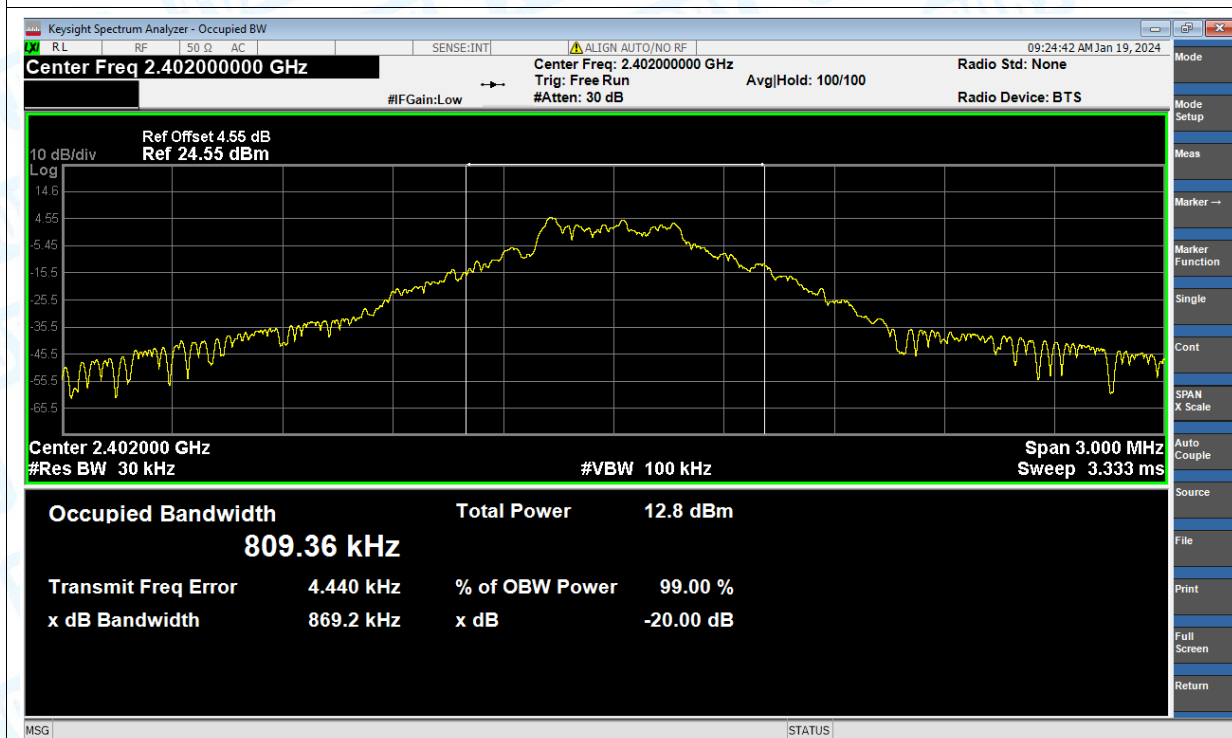


4. Occupied Channel Bandwidth

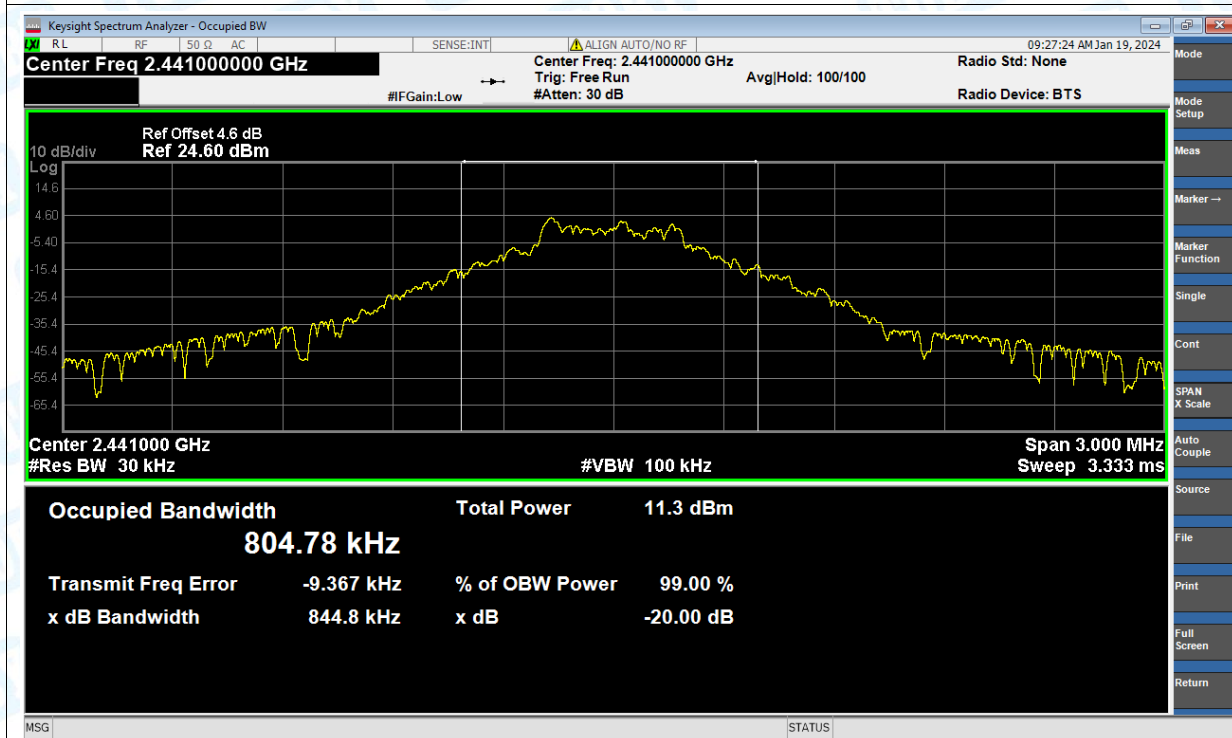
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.809
NVNT	1-DH1	2441	Ant1	0.805
NVNT	1-DH1	2480	Ant1	0.816
NVNT	2-DH1	2402	Ant1	1.166
NVNT	2-DH1	2441	Ant1	1.171
NVNT	2-DH1	2480	Ant1	1.174
NVNT	3-DH1	2402	Ant1	1.17
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.16

Test Graphs

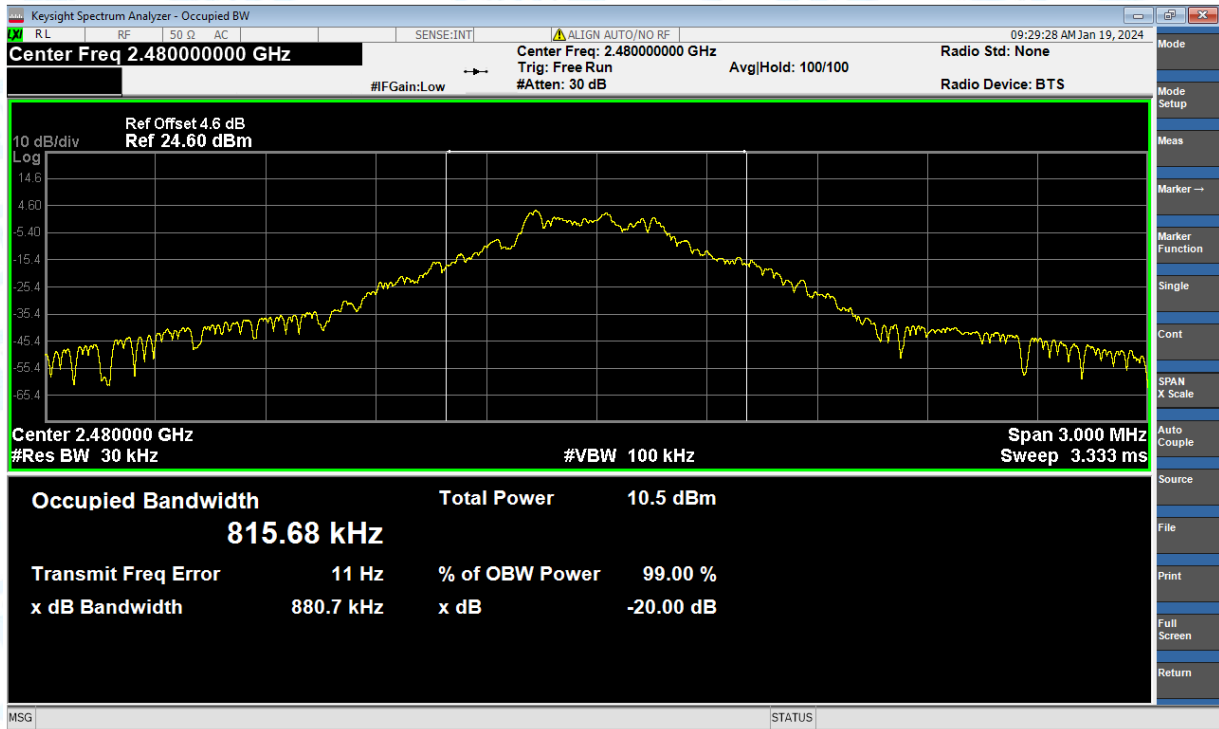
OBW NVNT 1-DH1 2402MHz Ant1



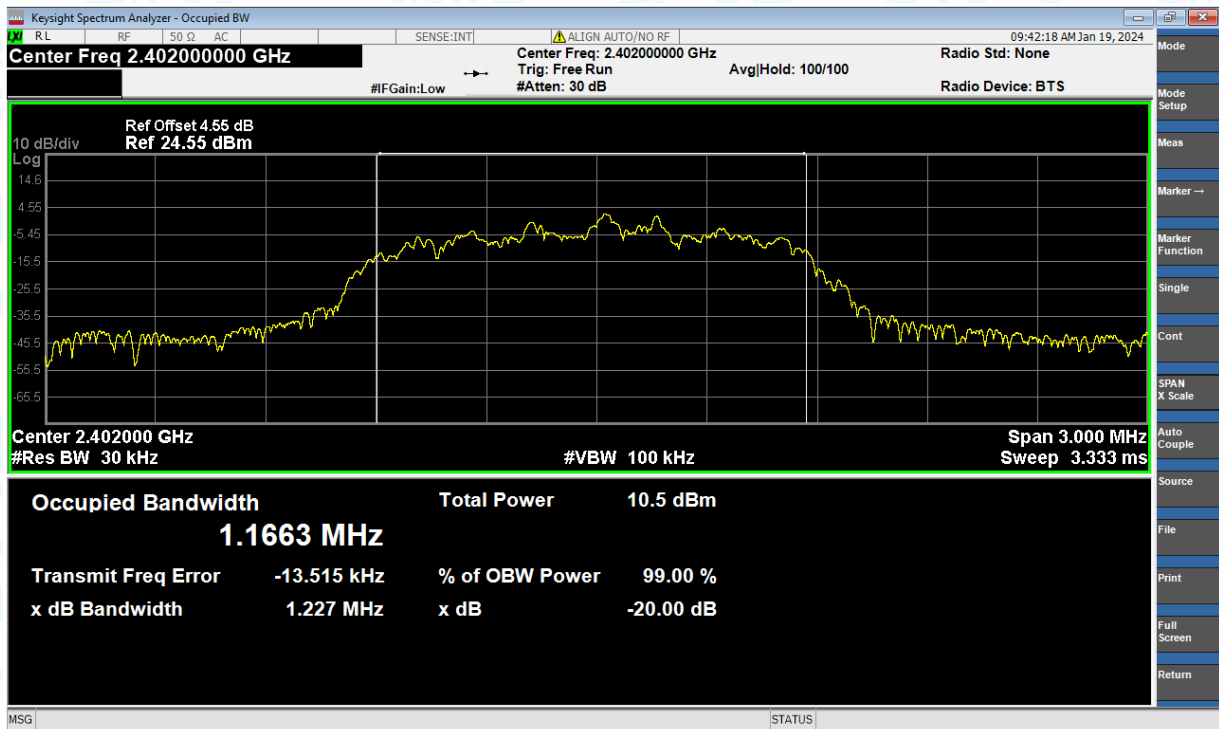
OBW NVNT 1-DH1 2441MHz Ant1



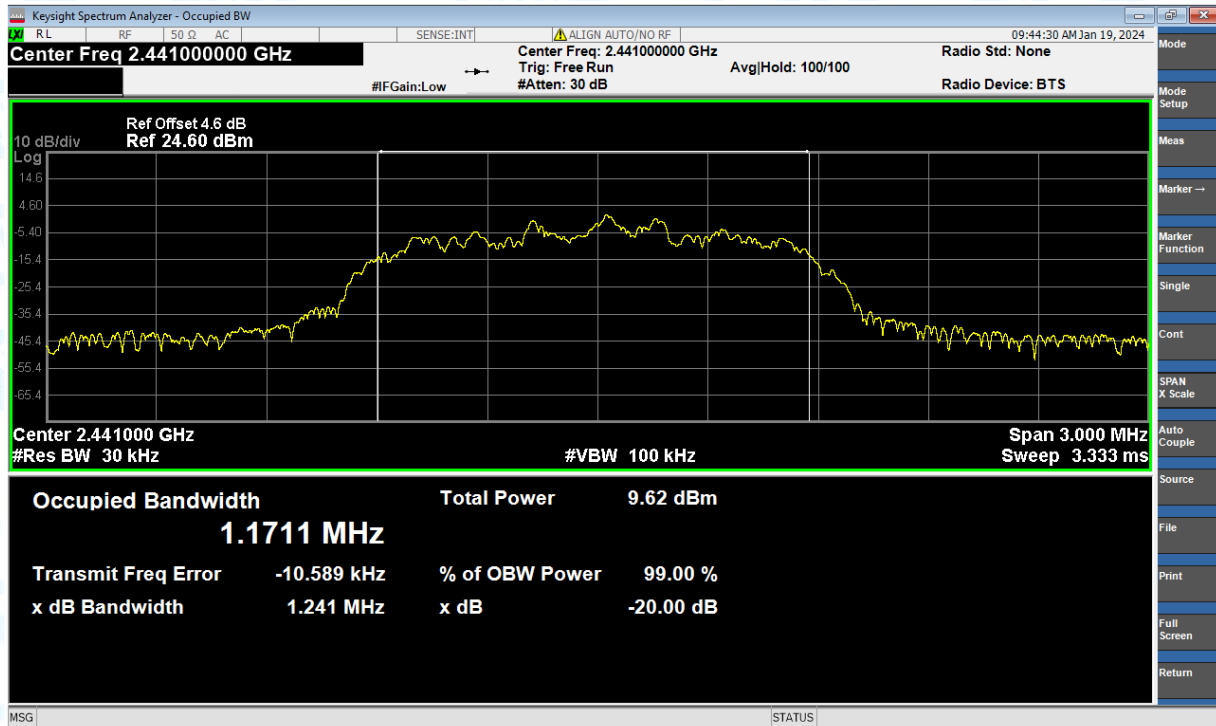
OBW NVNT 1-DH1 2480MHz Ant1



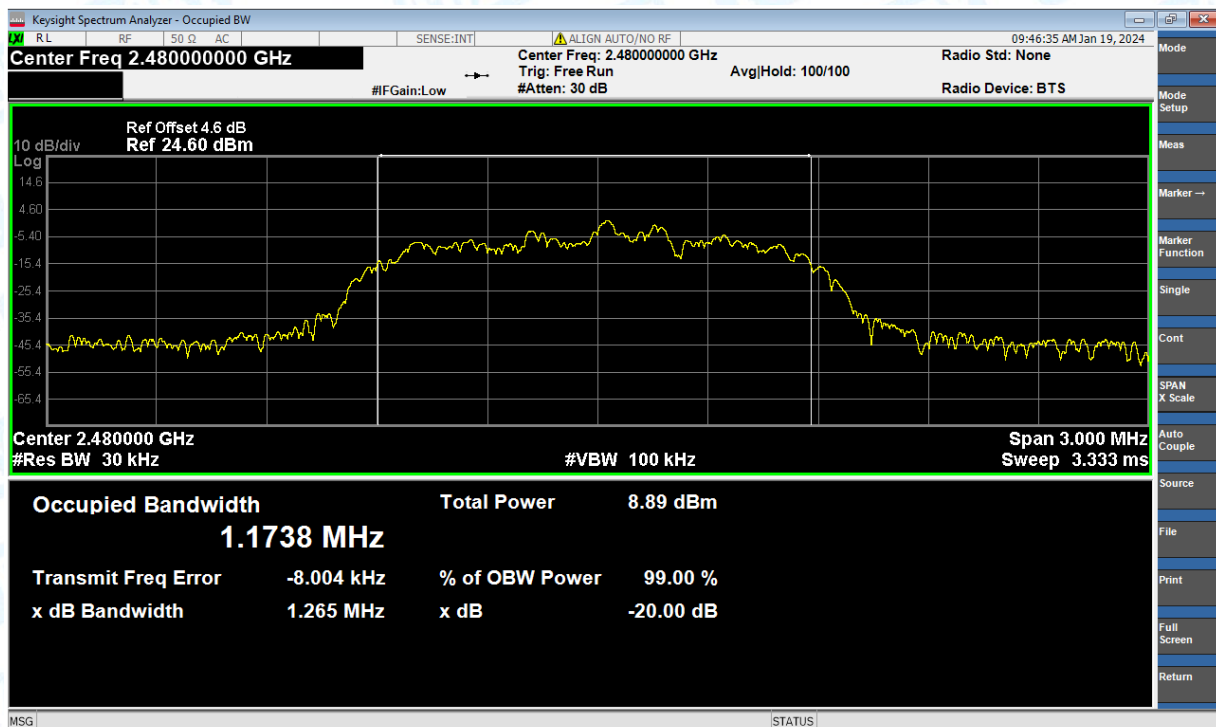
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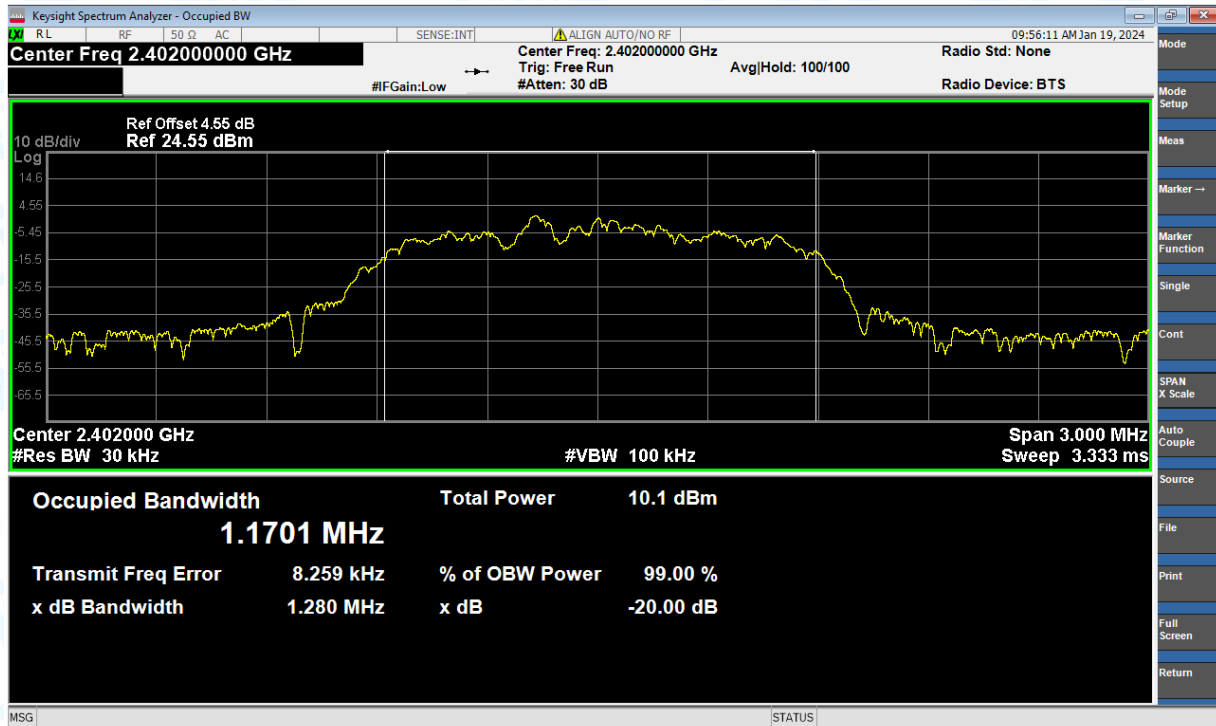
OBW NVNT 2-DH1 2441MHz Ant1



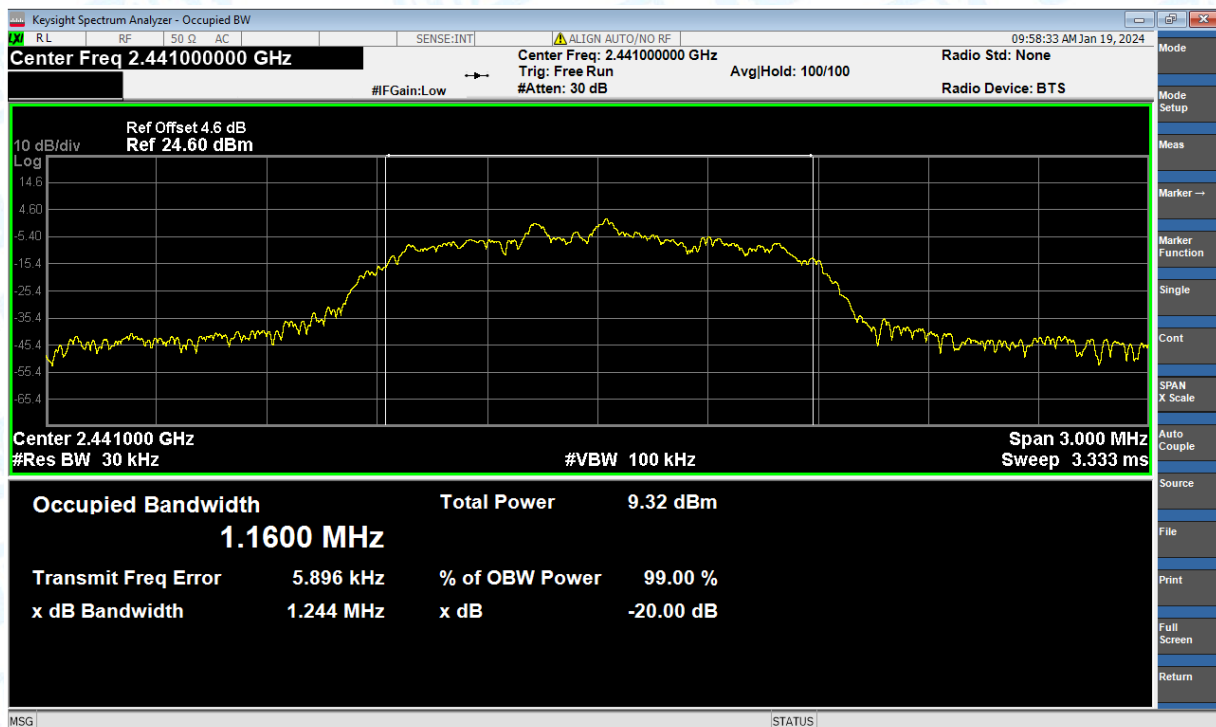
OBW NVNT 2-DH1 2480MHz Ant1

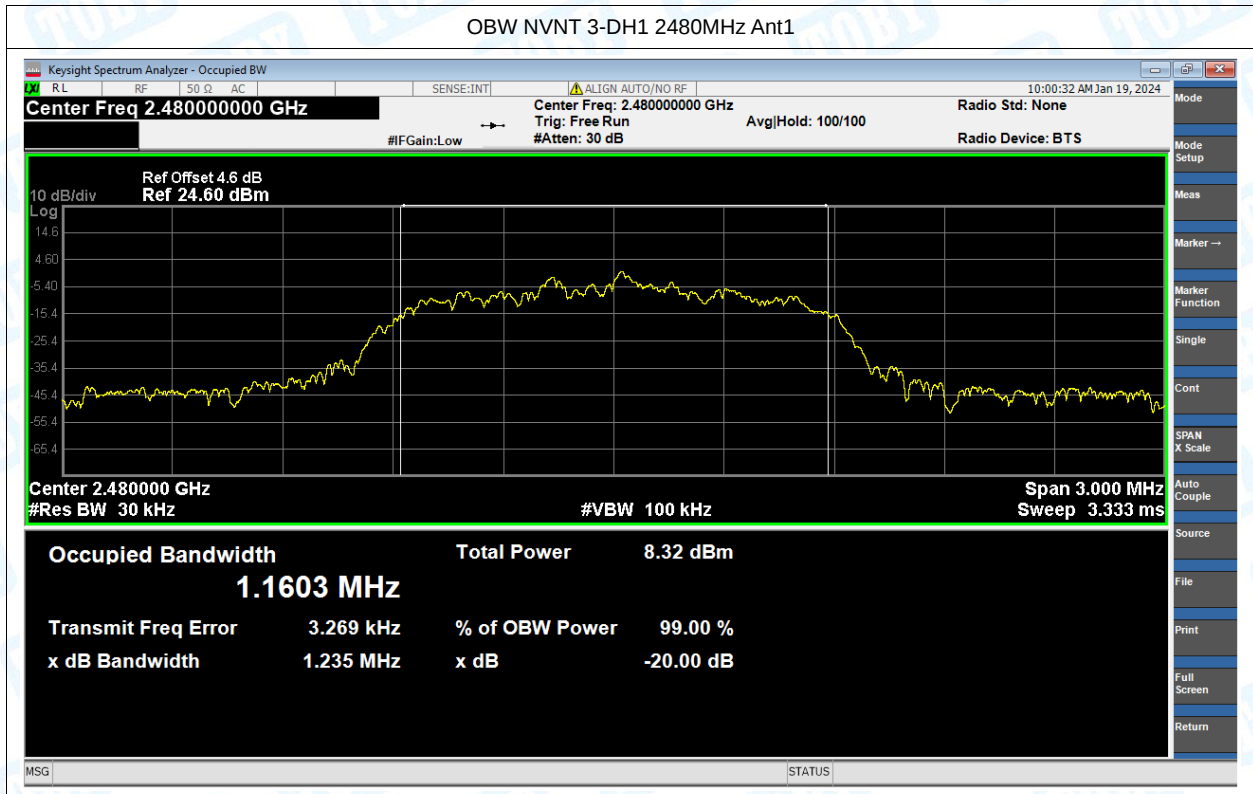


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



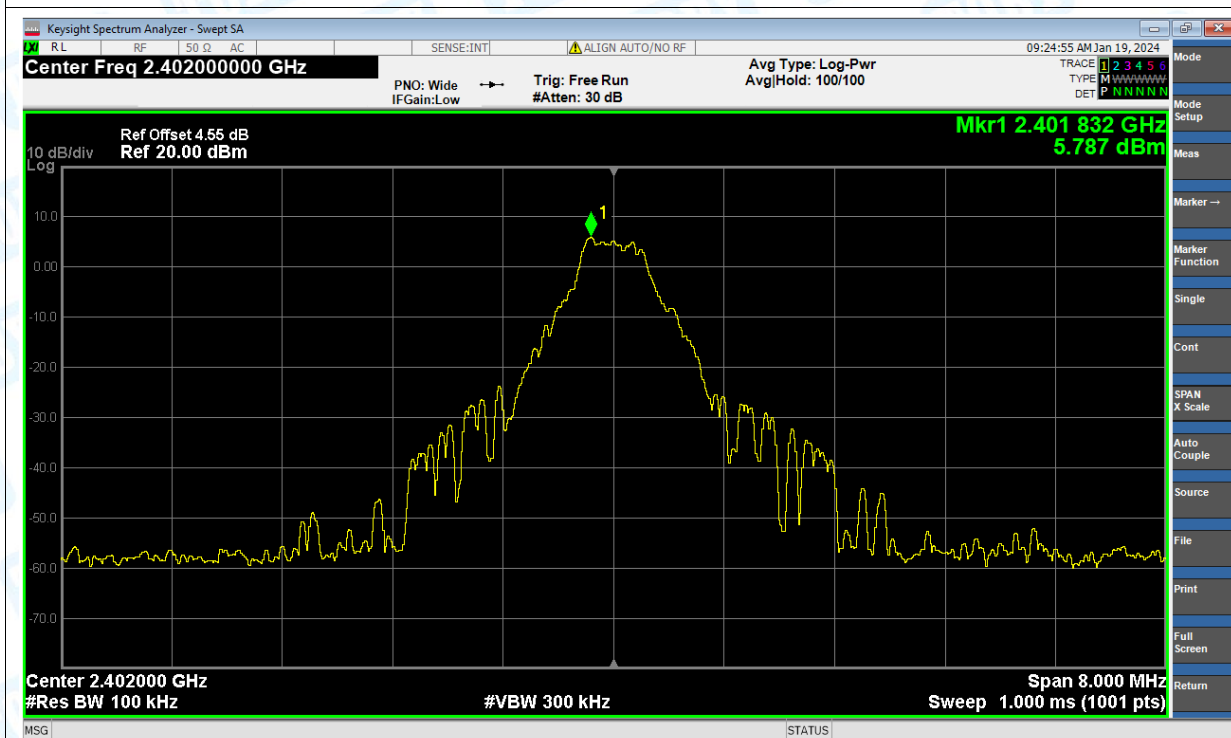


5. Band Edge

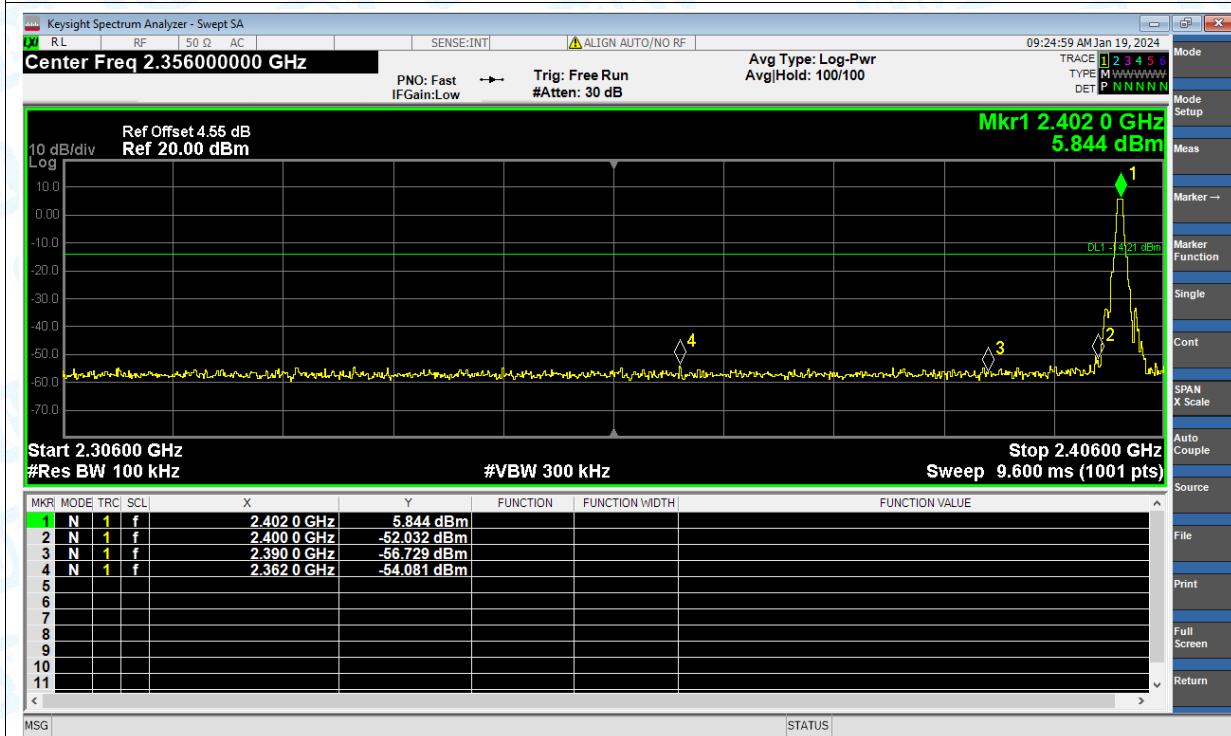
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-59.87	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-57.7	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.14	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.49	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-58.94	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-56.32	-20	Pass

Test Graphs

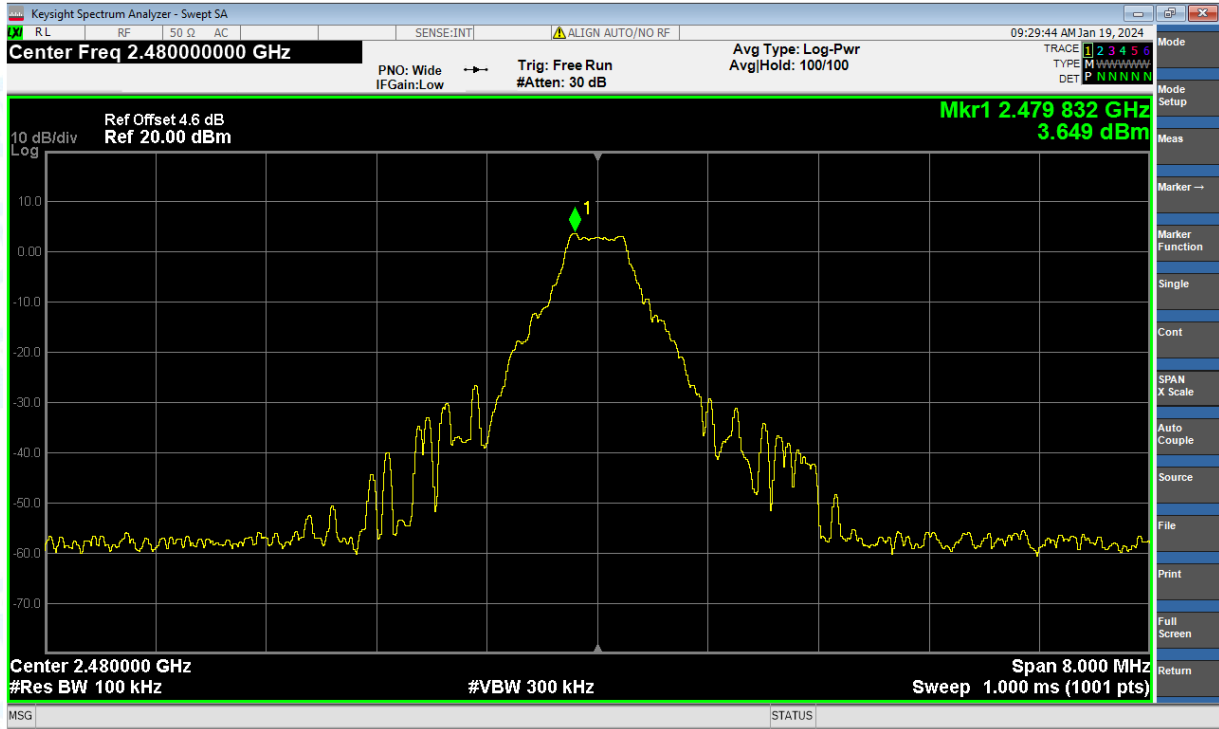
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



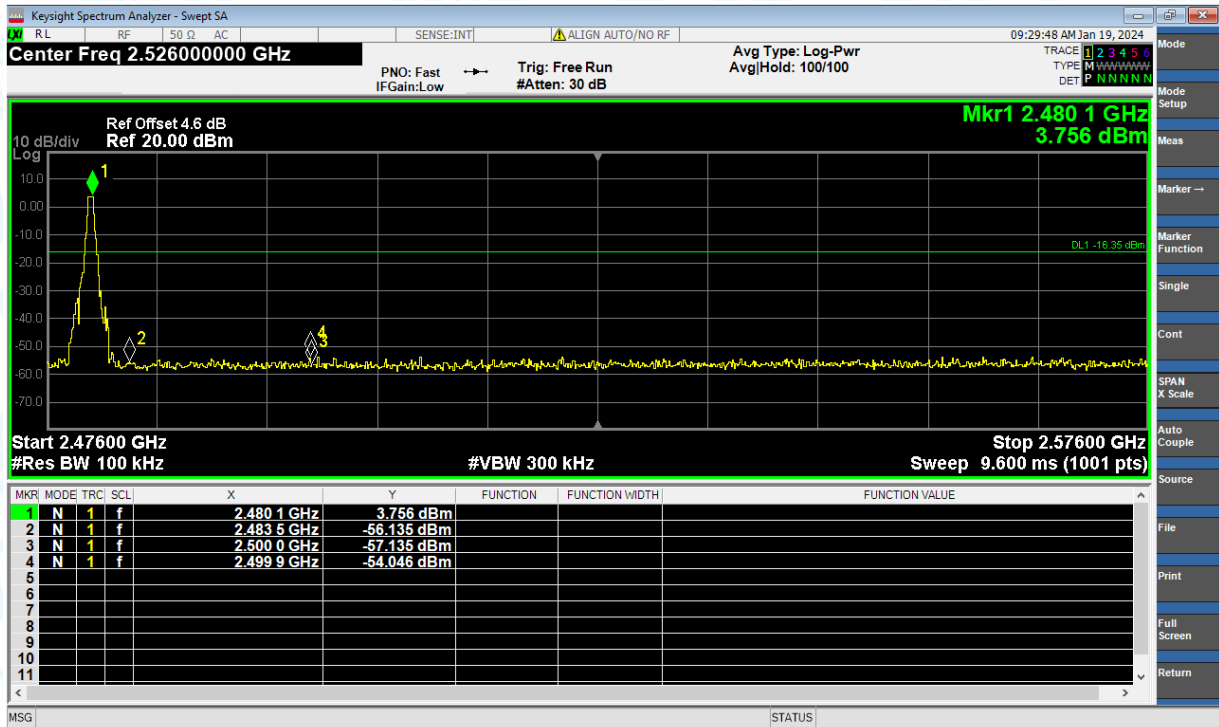
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



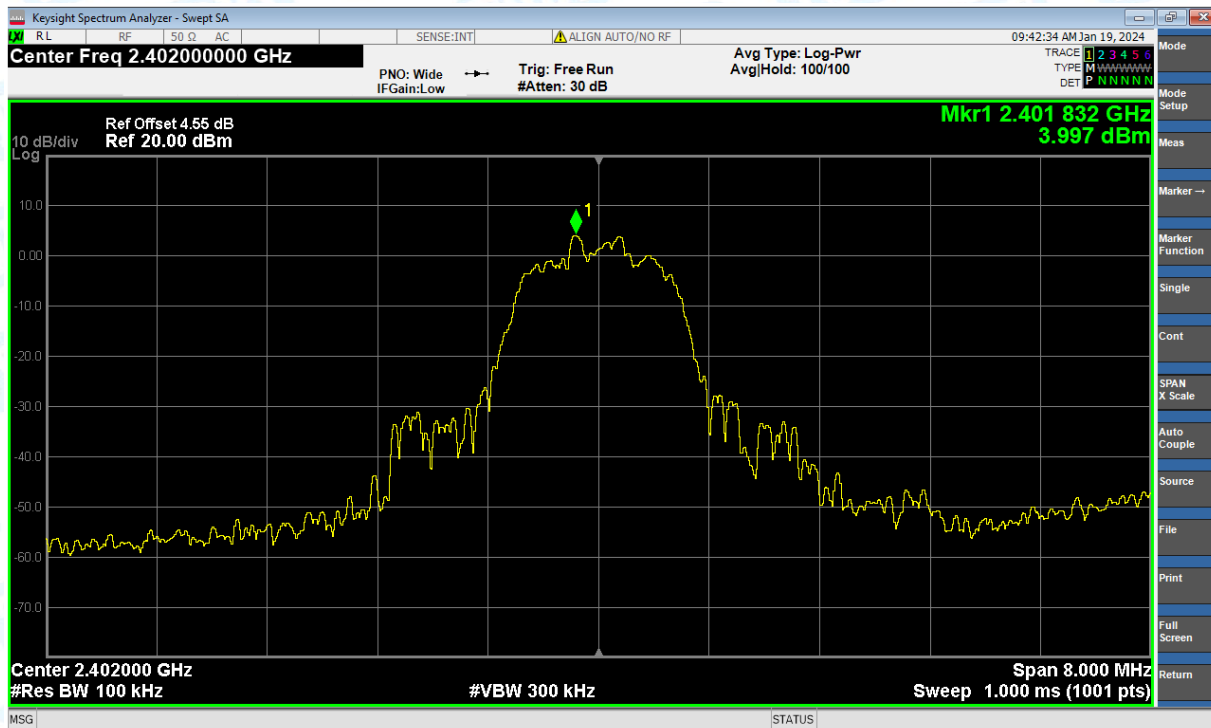
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



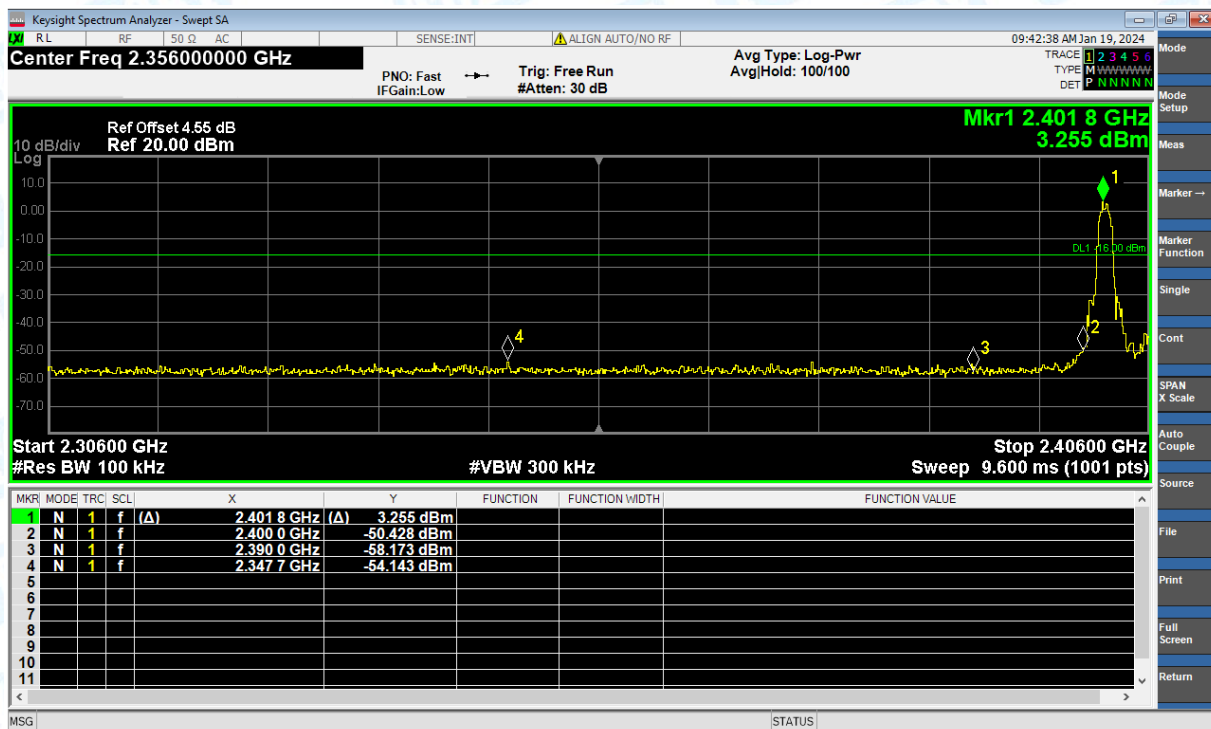
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



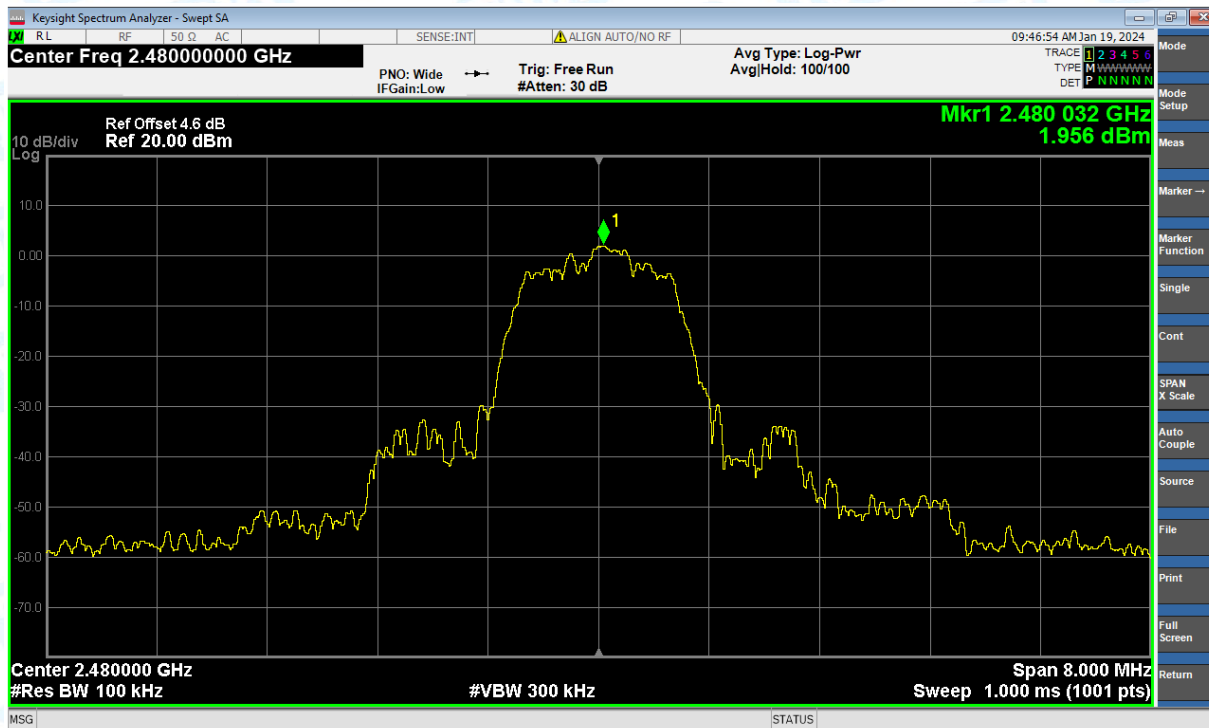
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



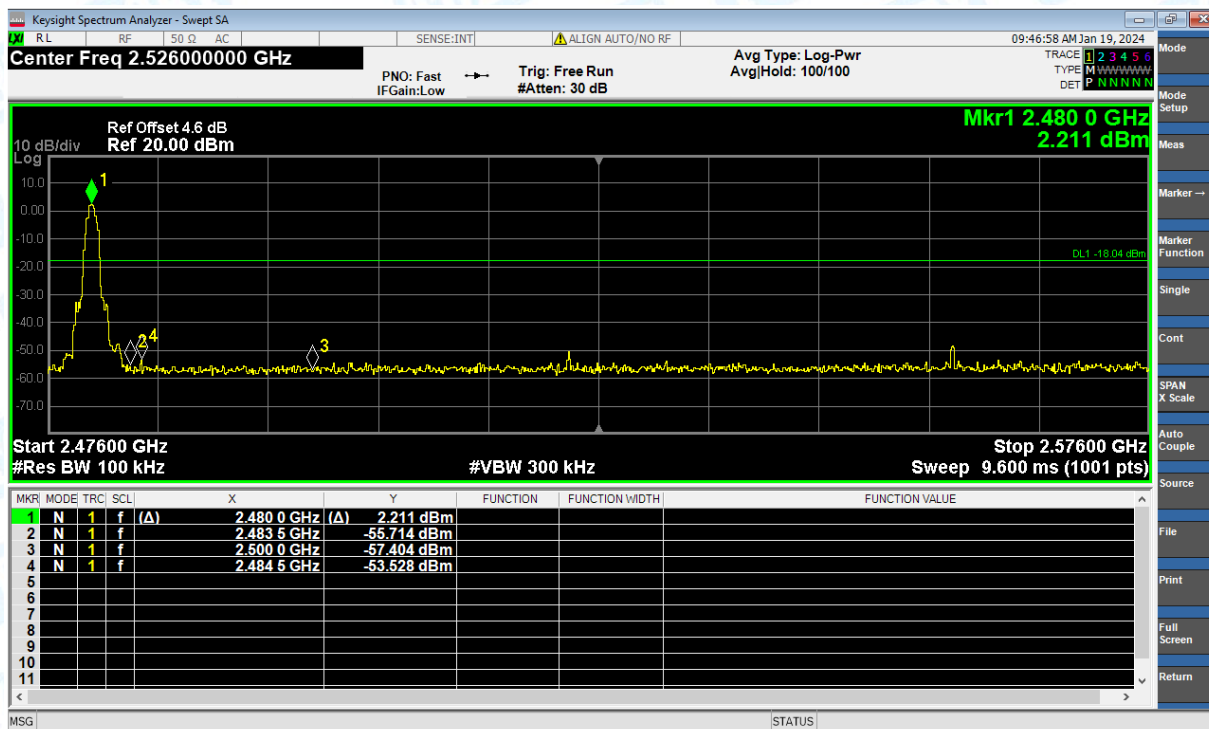
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



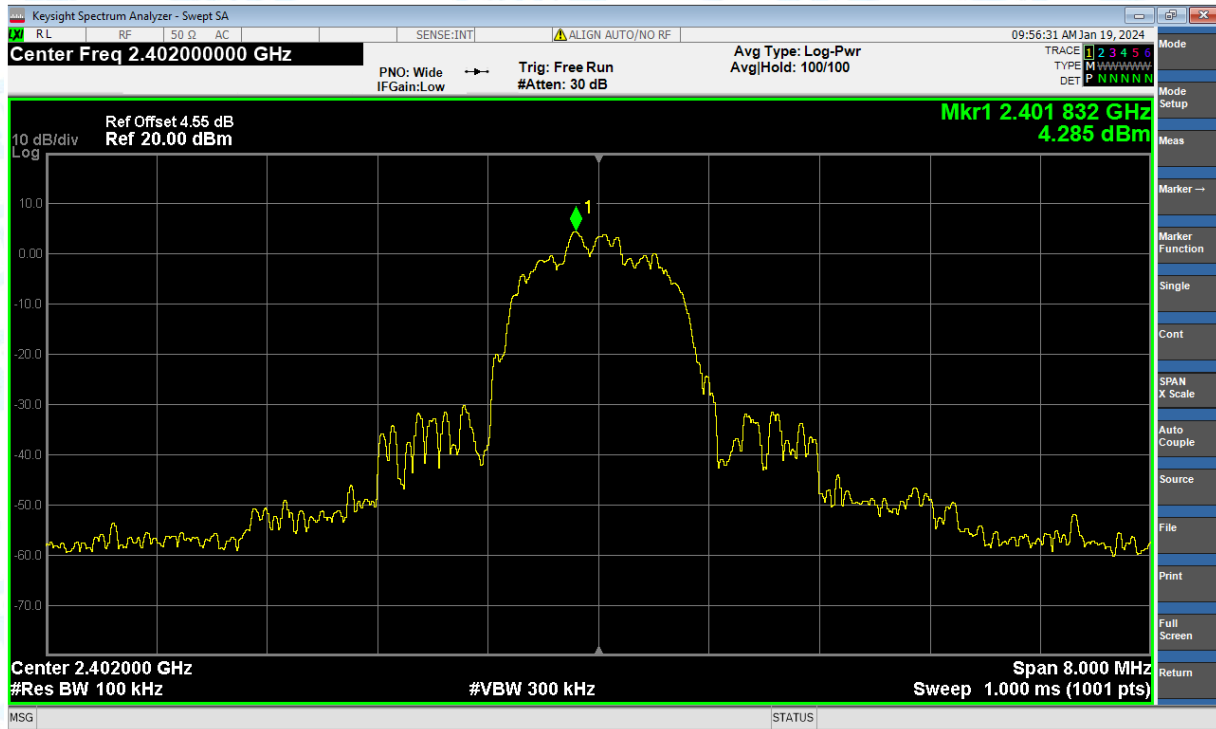
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



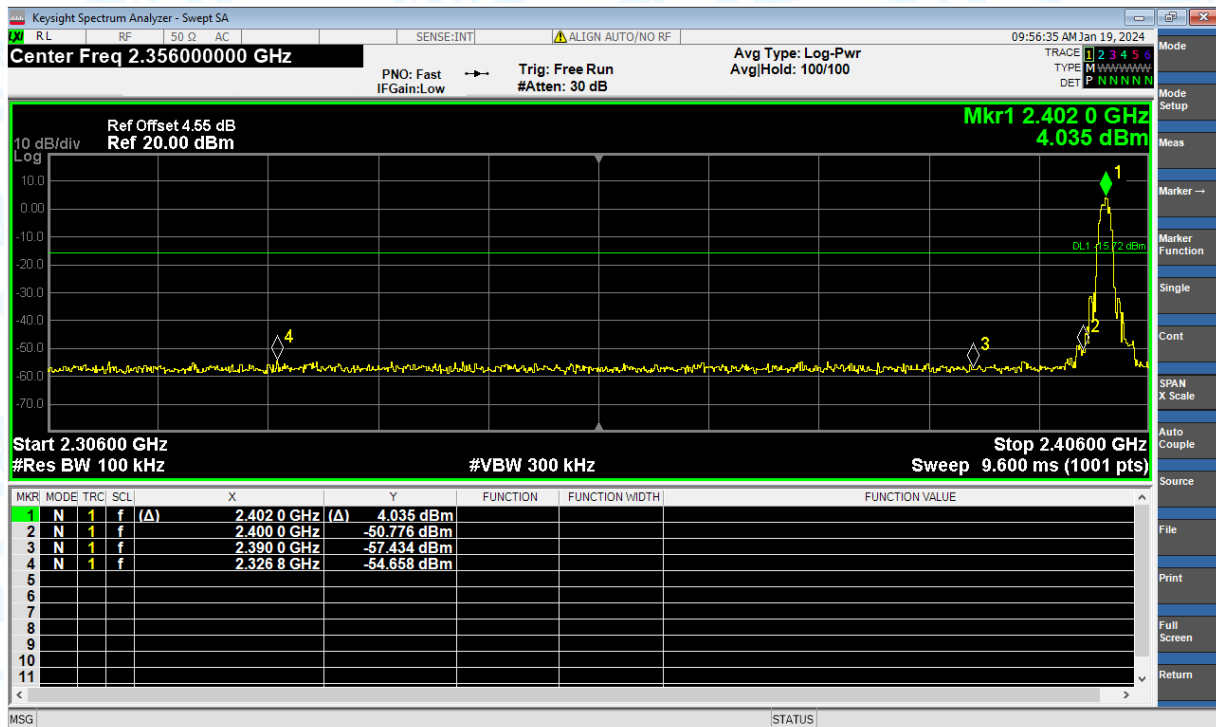
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



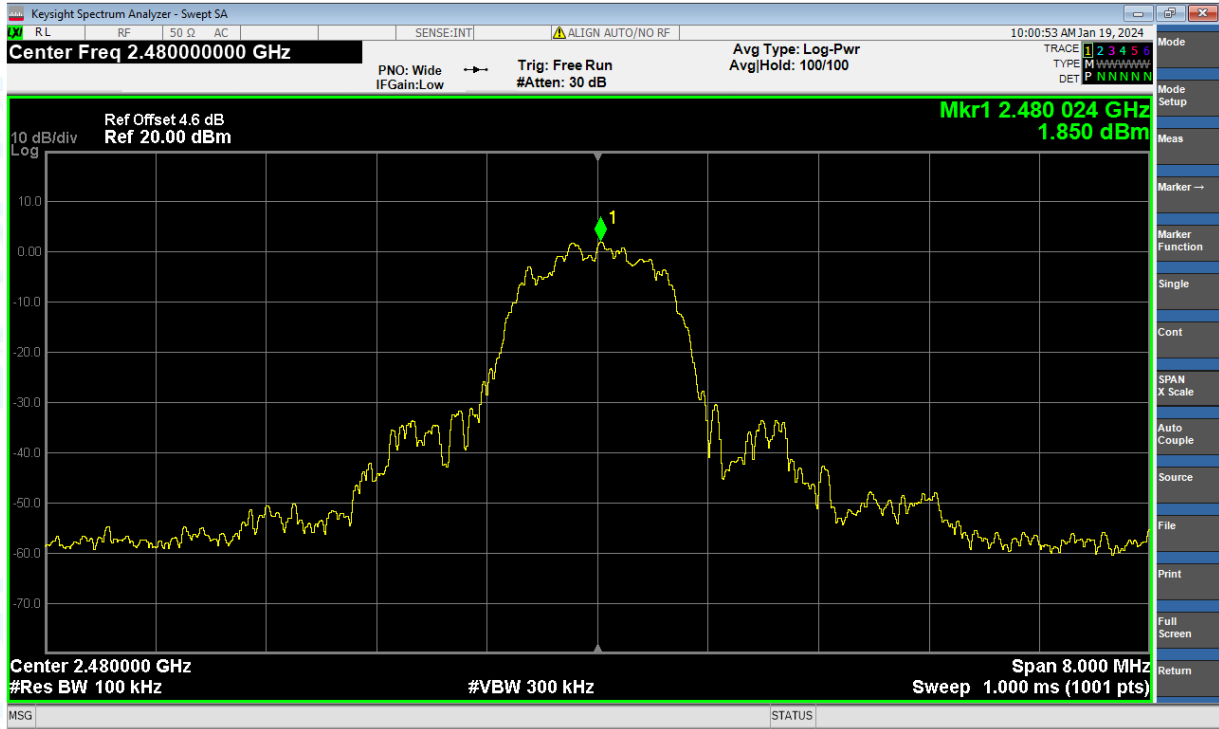
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



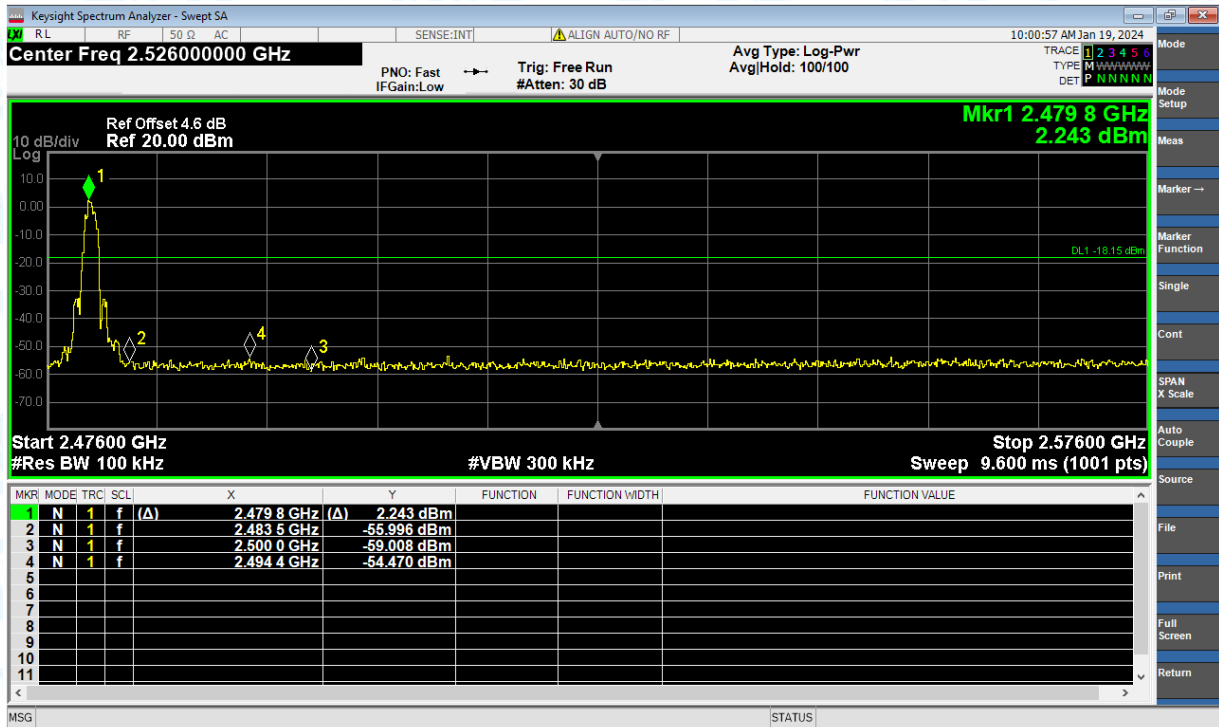
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

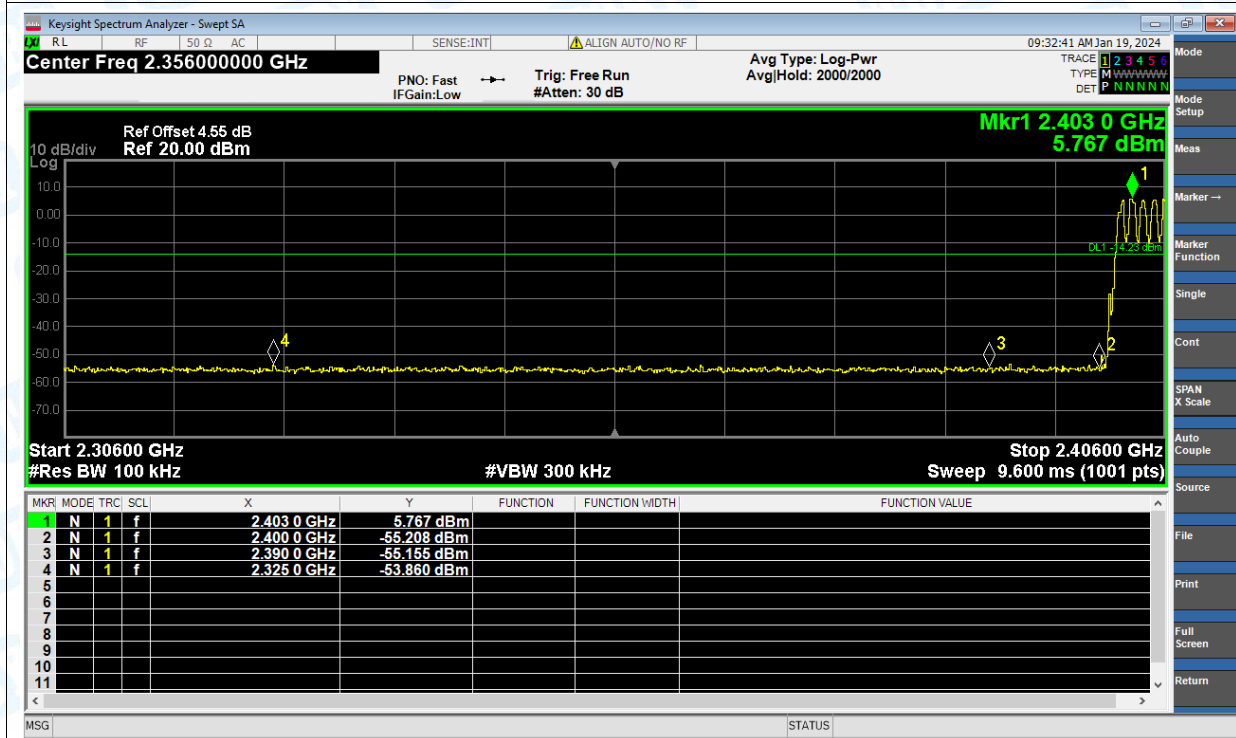
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-59.63	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-57.32	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-56.72	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-55.59	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-56.77	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-55.13	-20	Pass

Test Graphs

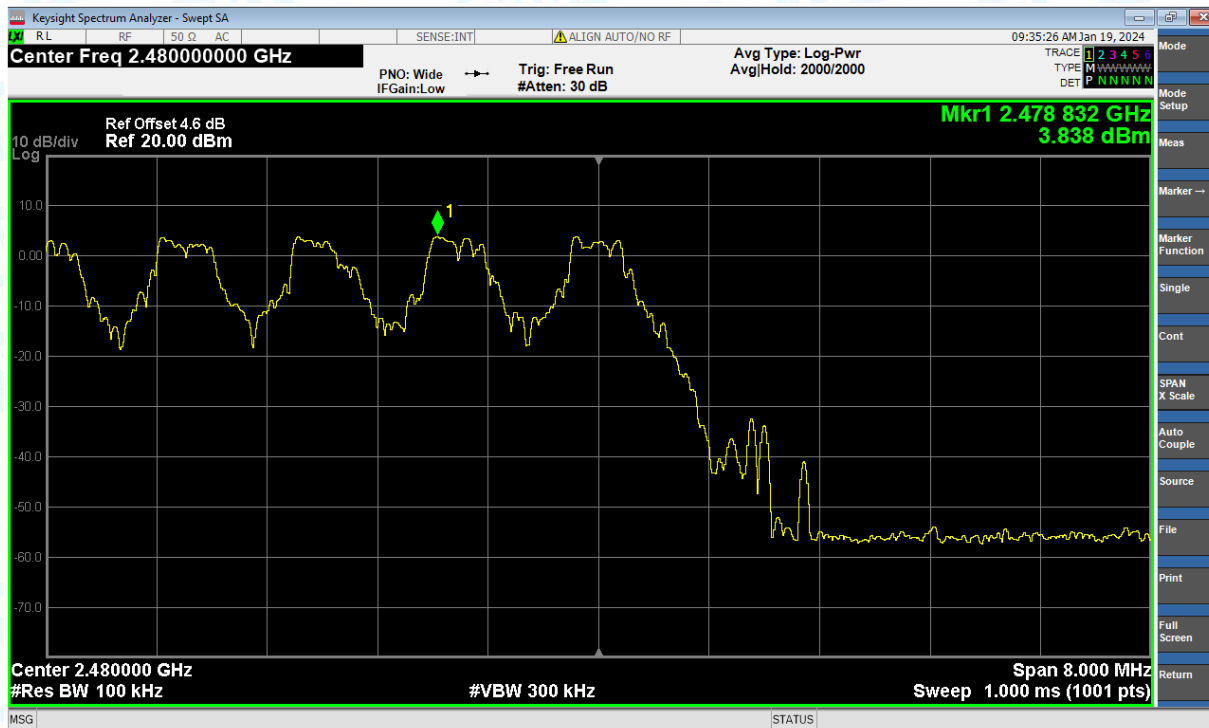
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



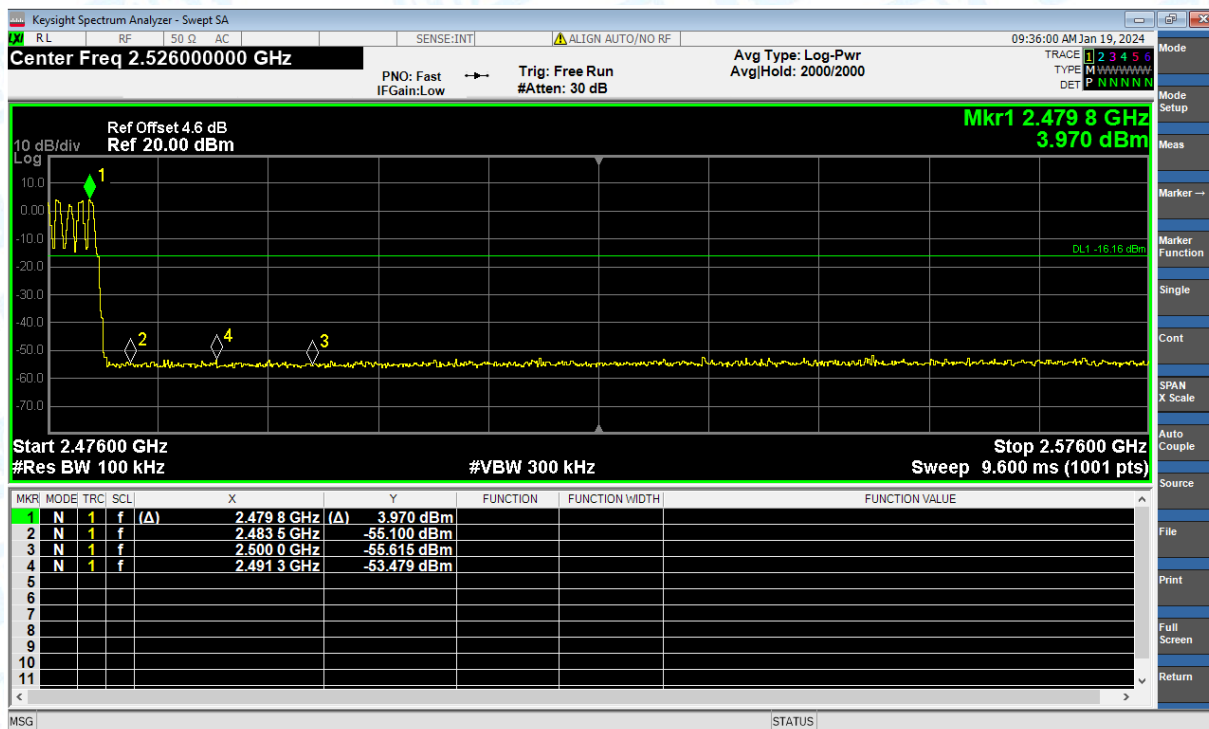
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



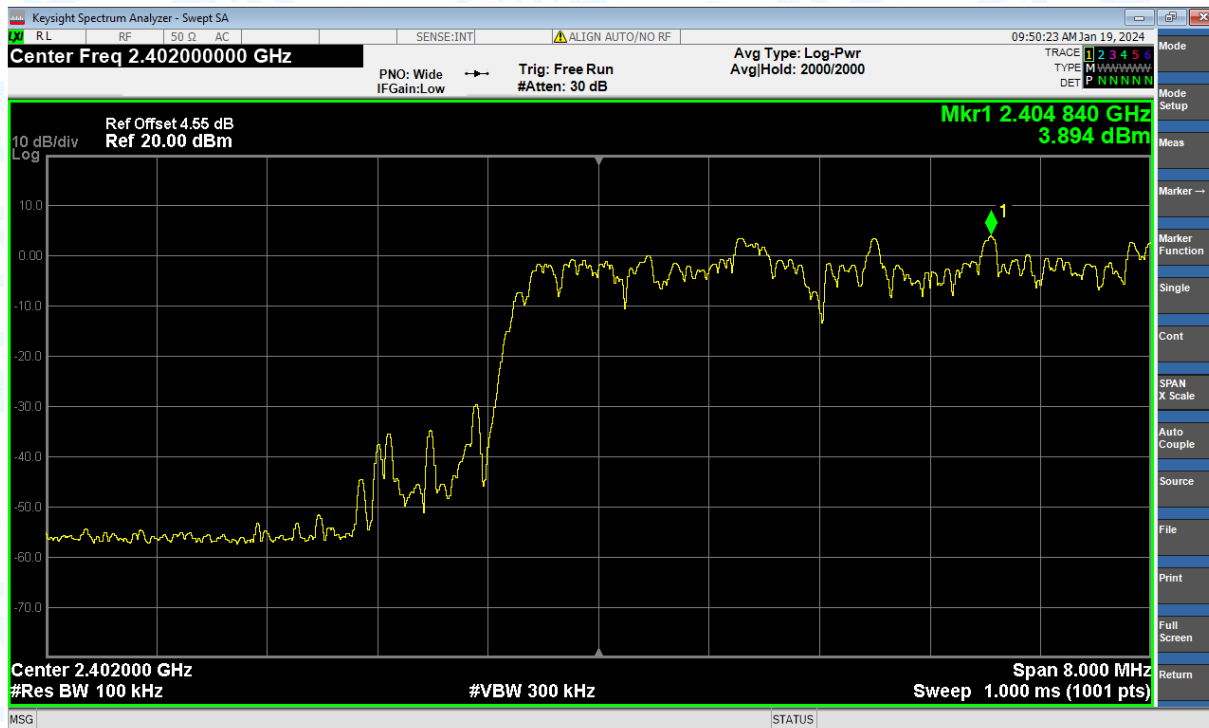
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



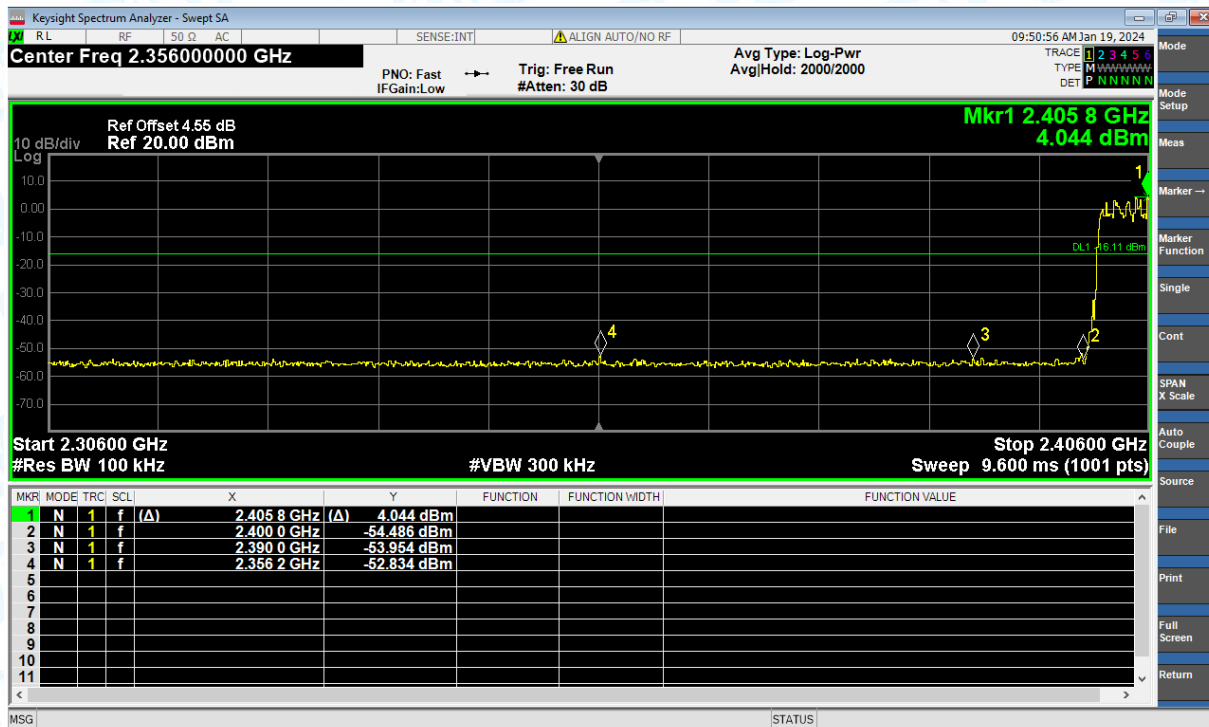
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



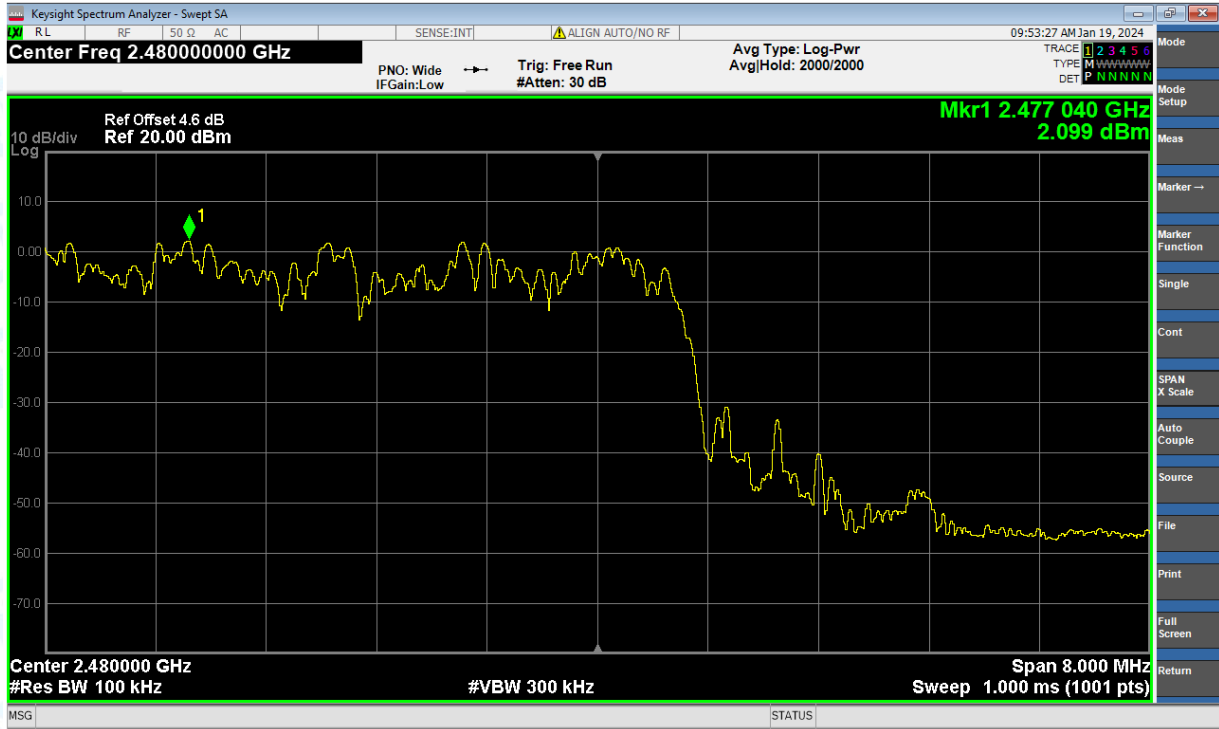
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



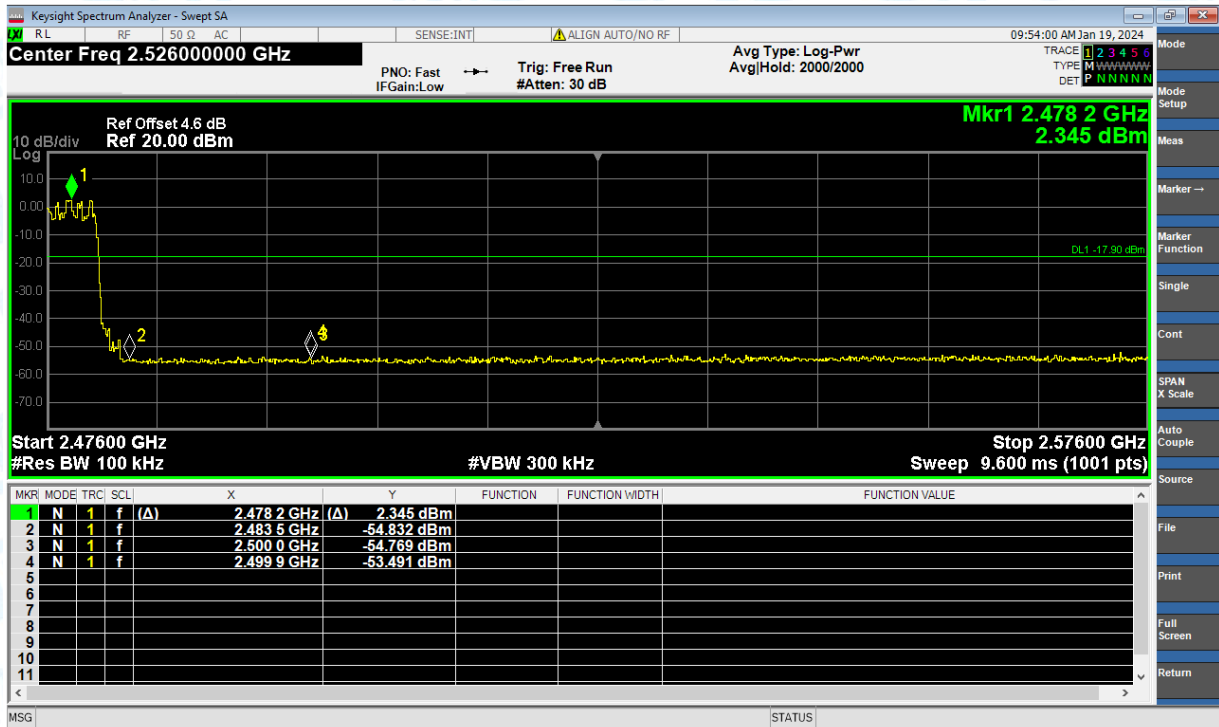
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



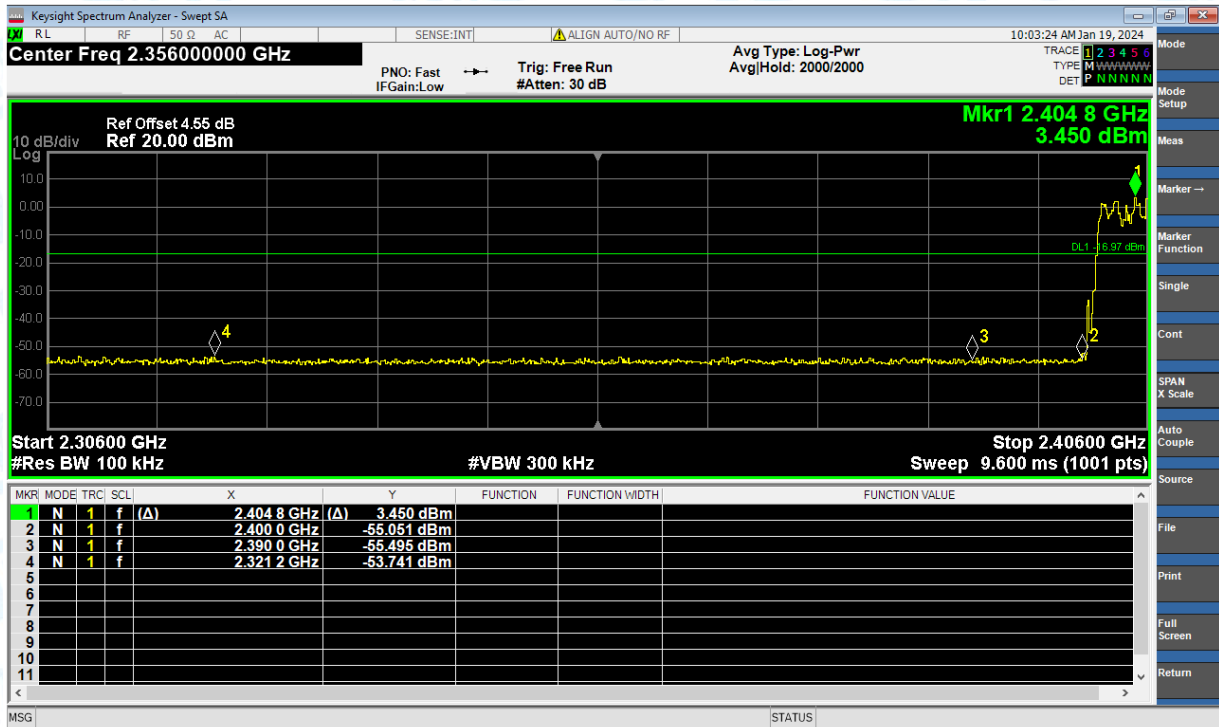
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



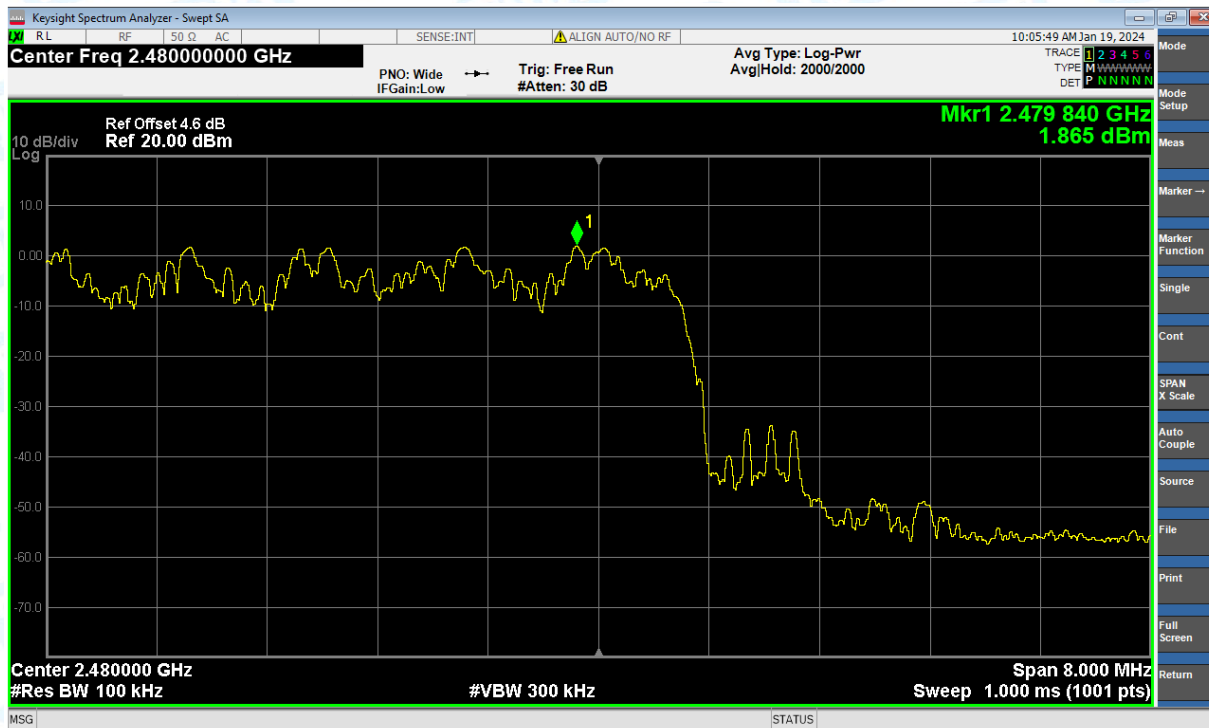
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



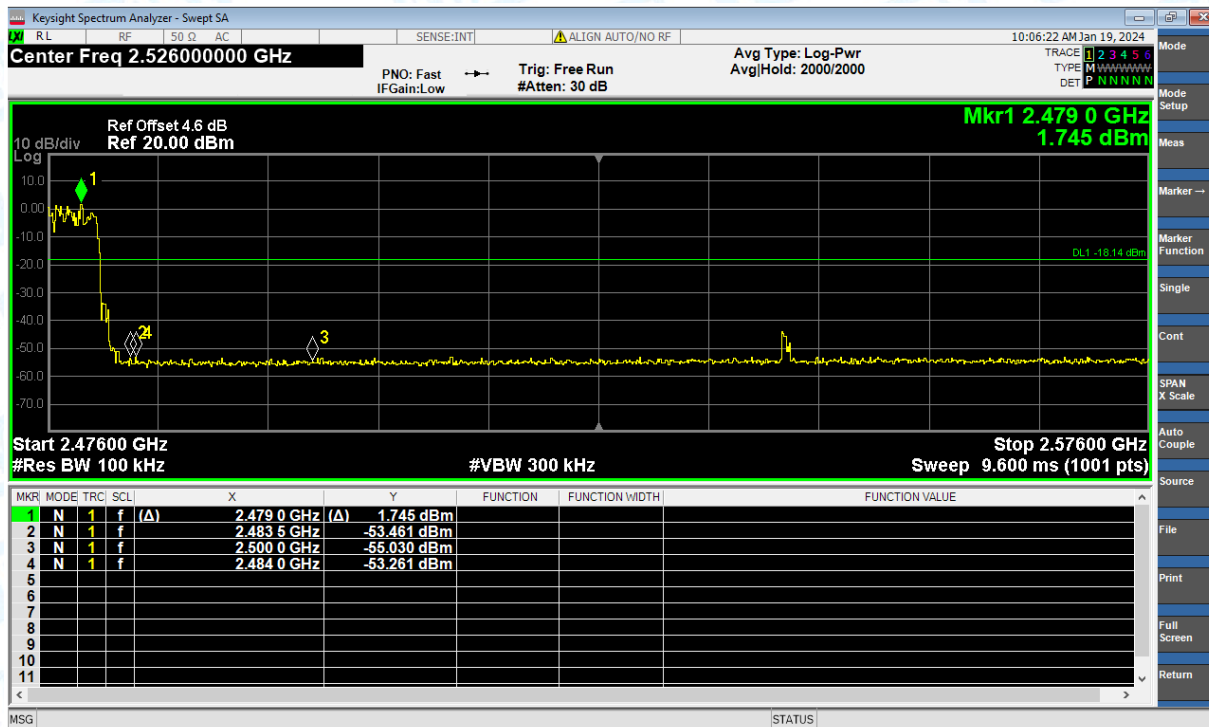
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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

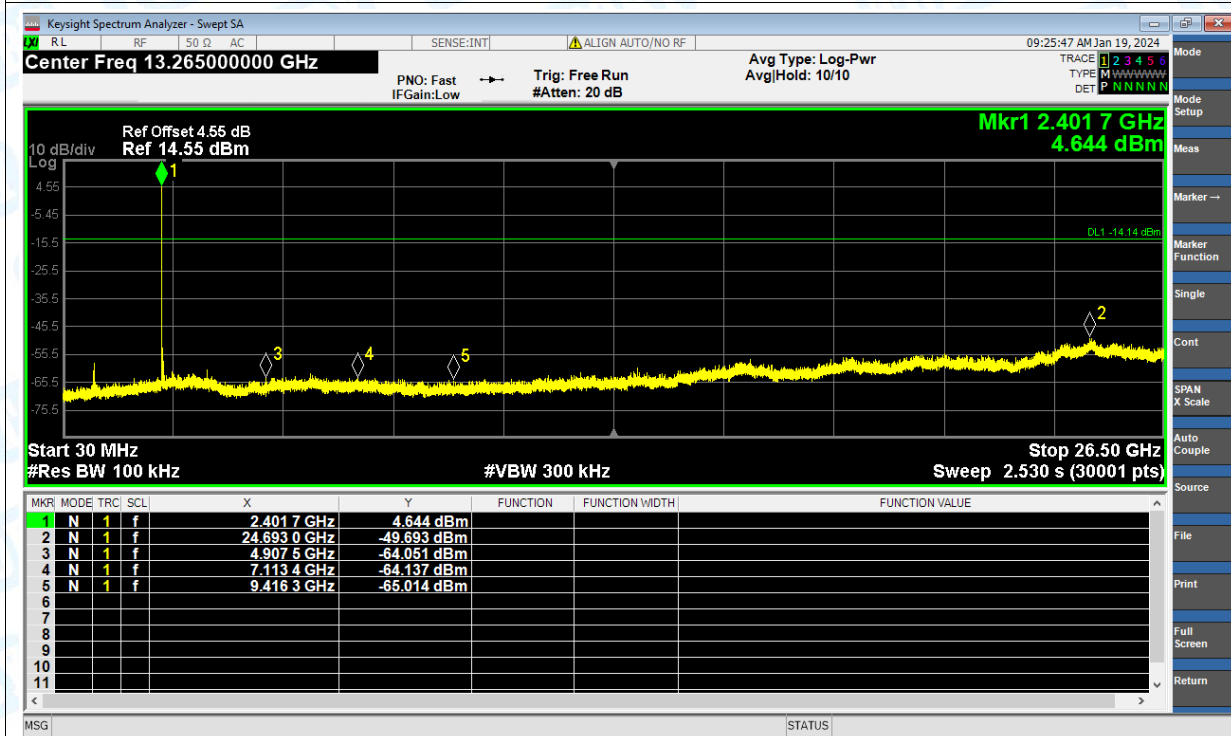
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-55.55	-20	Pass
NVNT	1-DH1	2441	Ant1	-51.01	-20	Pass
NVNT	1-DH1	2480	Ant1	-52.86	-20	Pass
NVNT	2-DH1	2402	Ant1	-53.5	-20	Pass
NVNT	2-DH1	2441	Ant1	-52.92	-20	Pass
NVNT	2-DH1	2480	Ant1	-52.35	-20	Pass
NVNT	3-DH1	2402	Ant1	-54	-20	Pass
NVNT	3-DH1	2441	Ant1	-53.24	-20	Pass
NVNT	3-DH1	2480	Ant1	-51.37	-20	Pass

Test Graphs

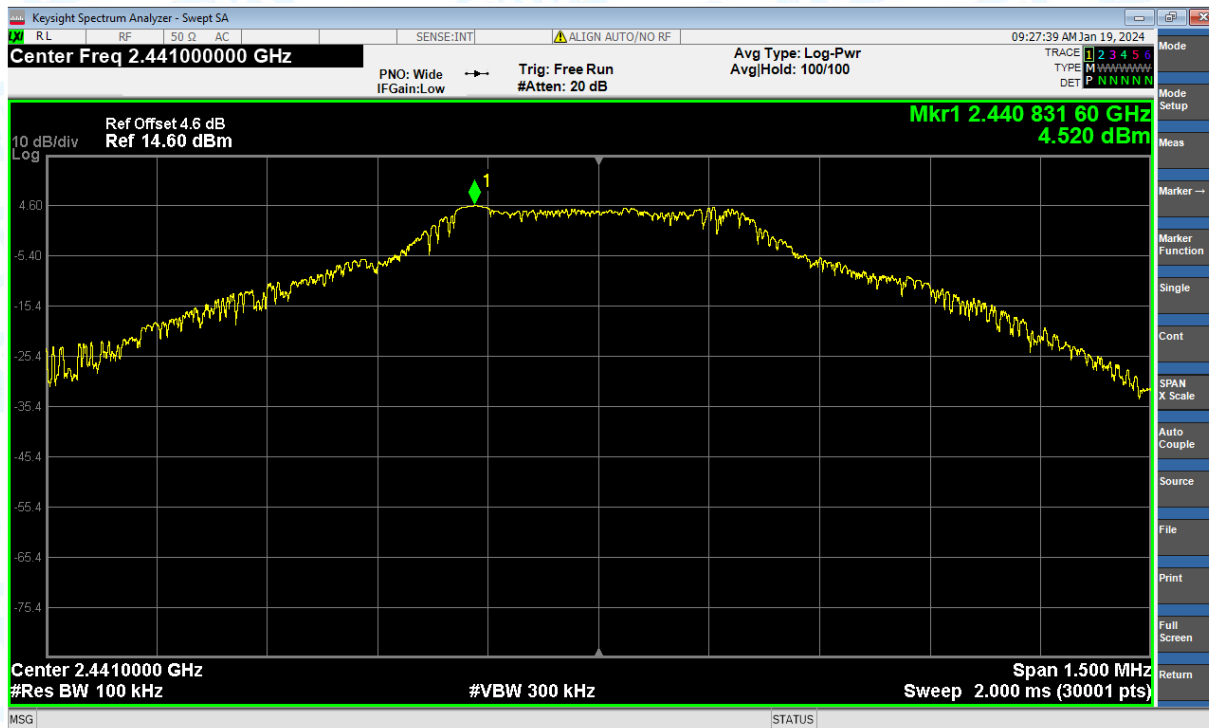
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



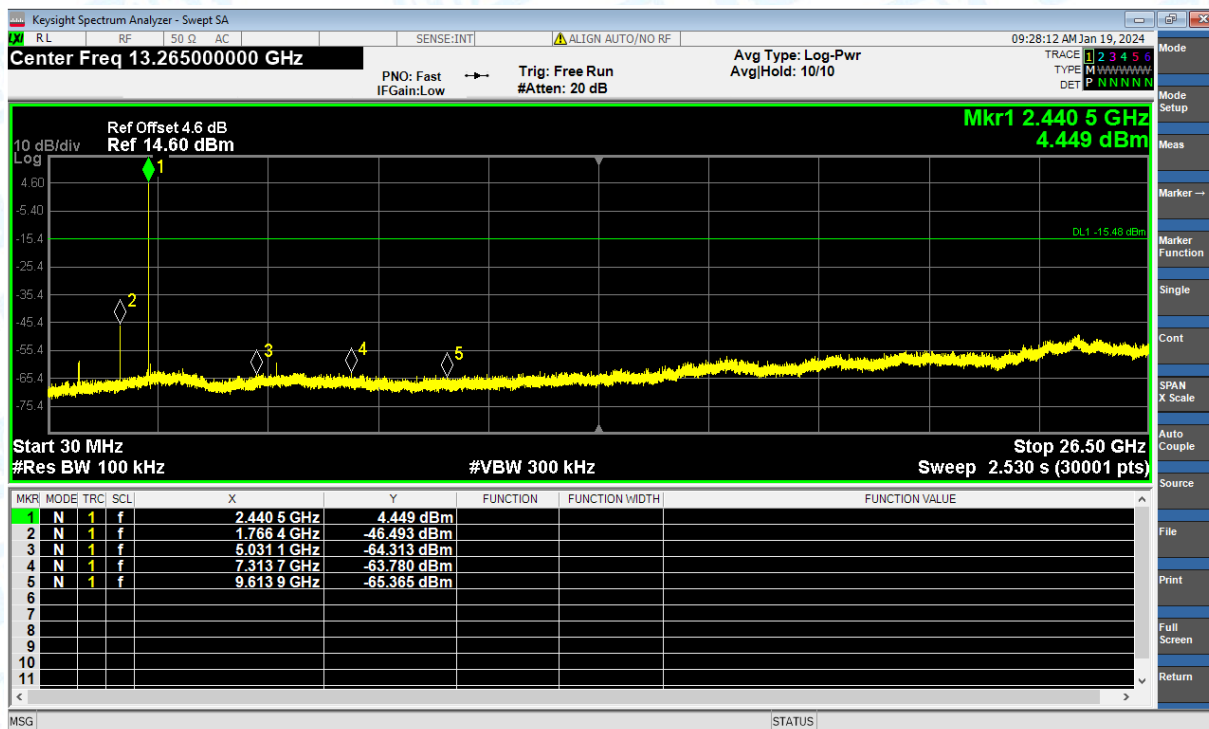
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



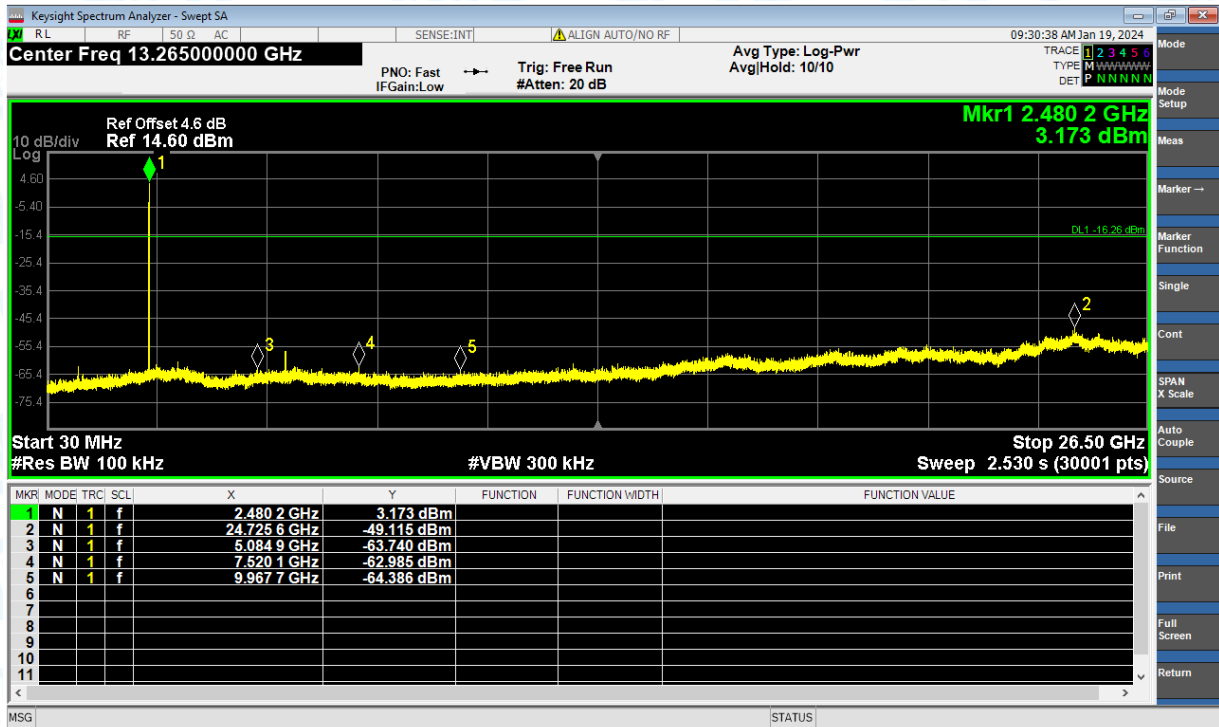
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



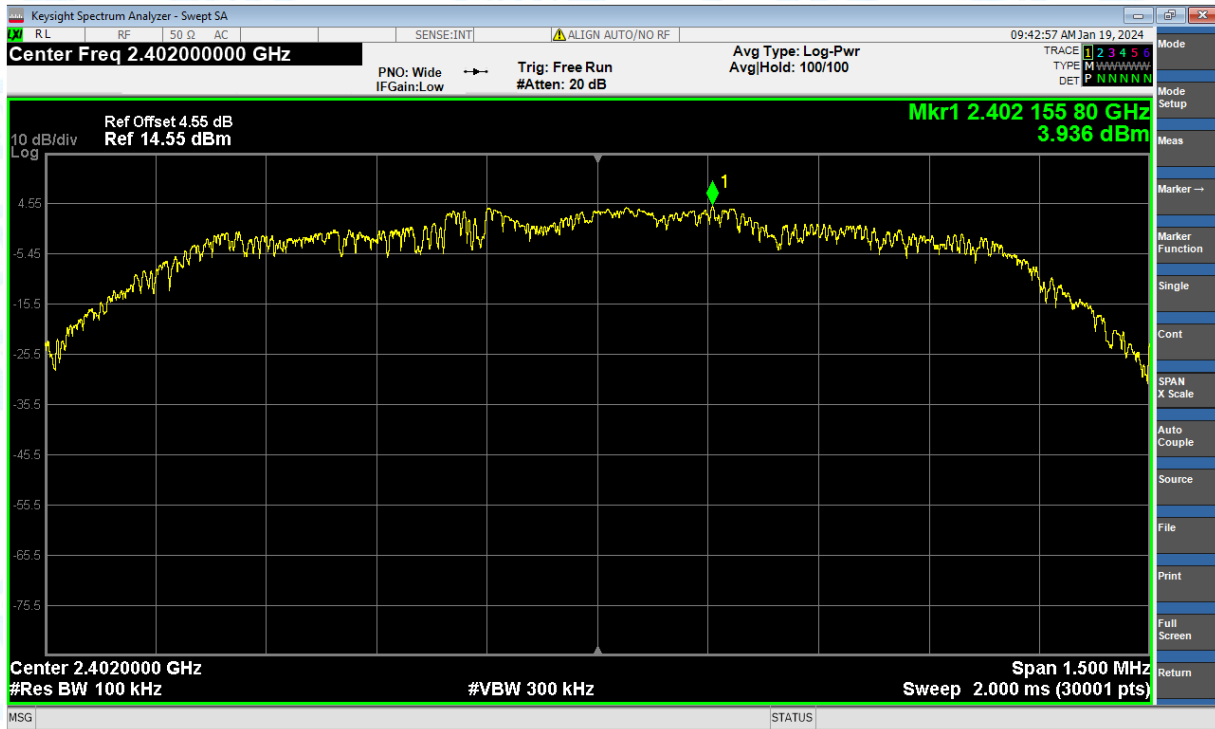
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



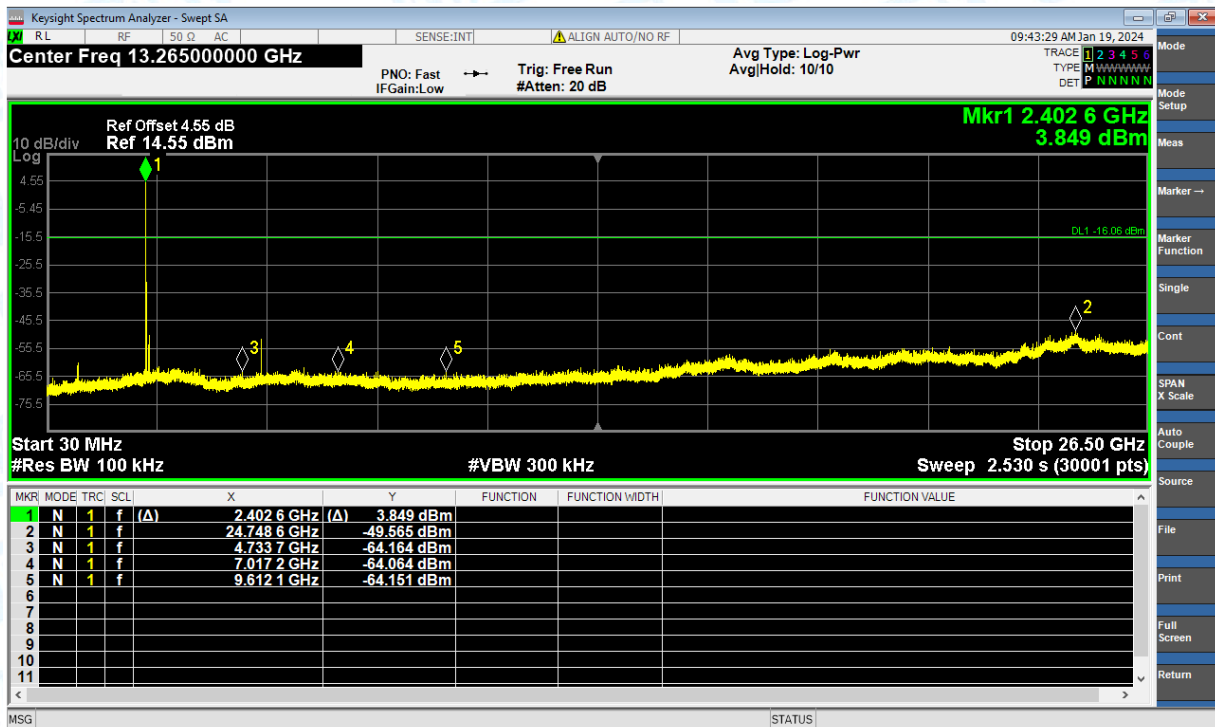
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



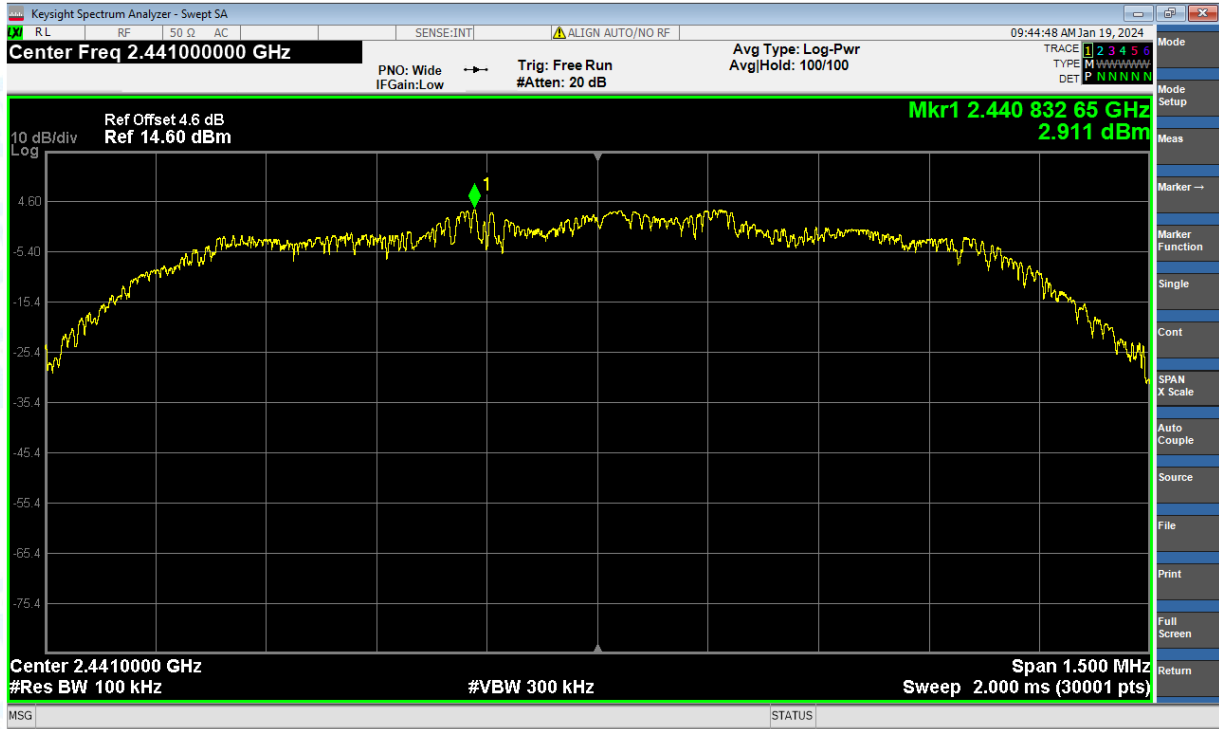
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



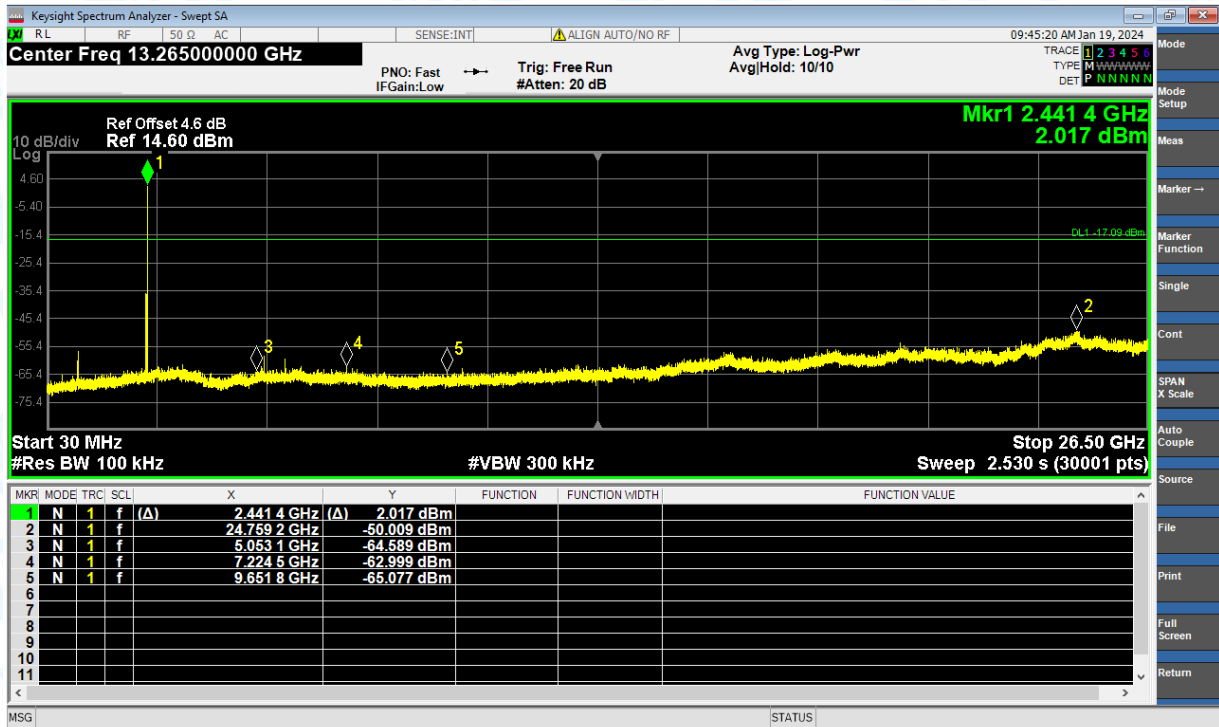
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



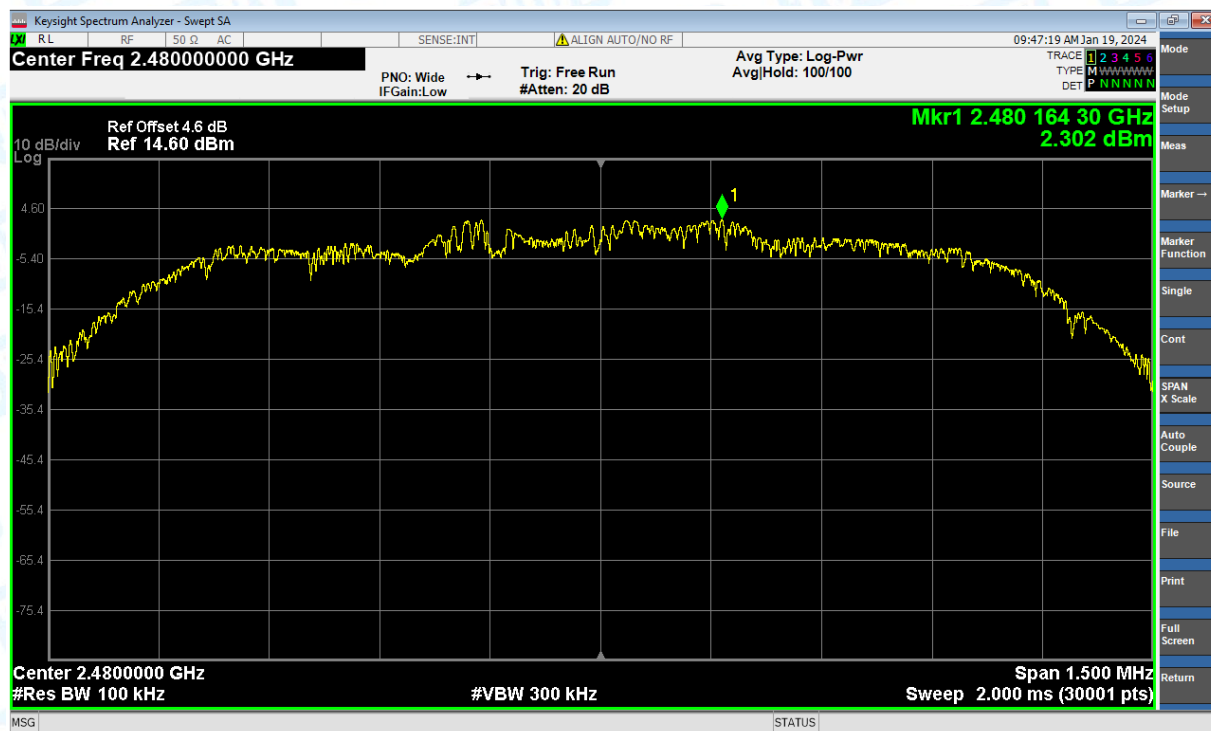
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



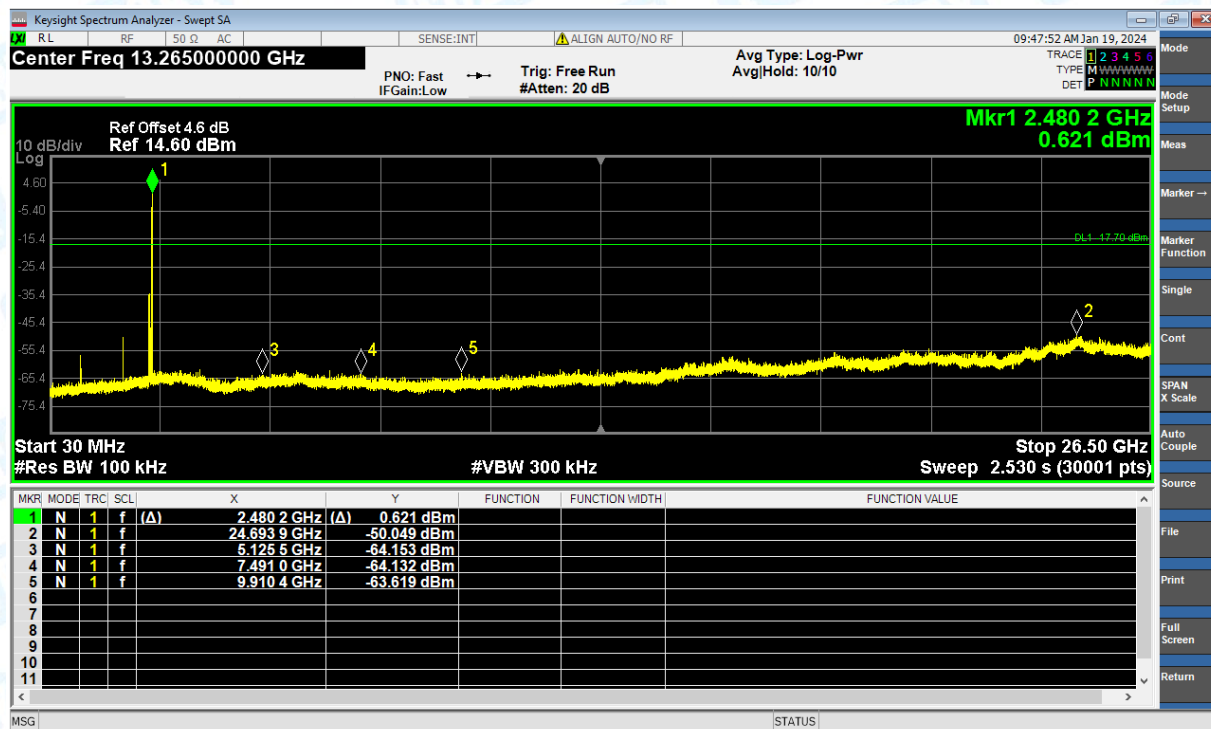
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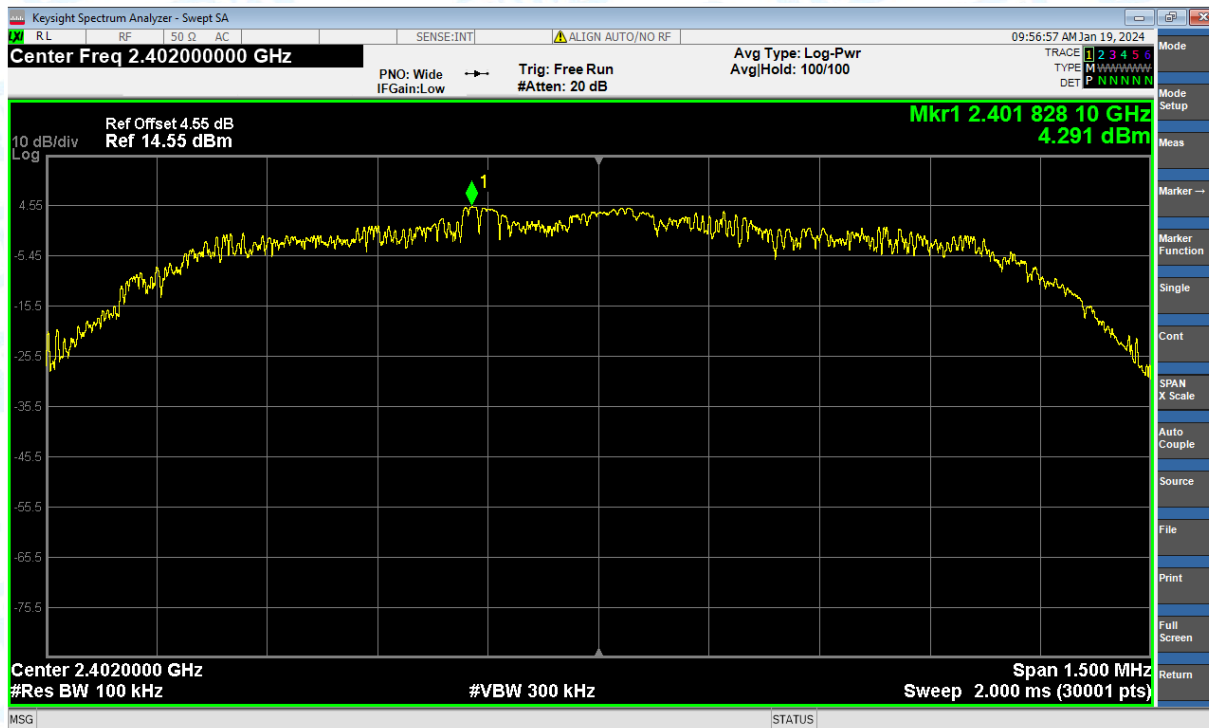
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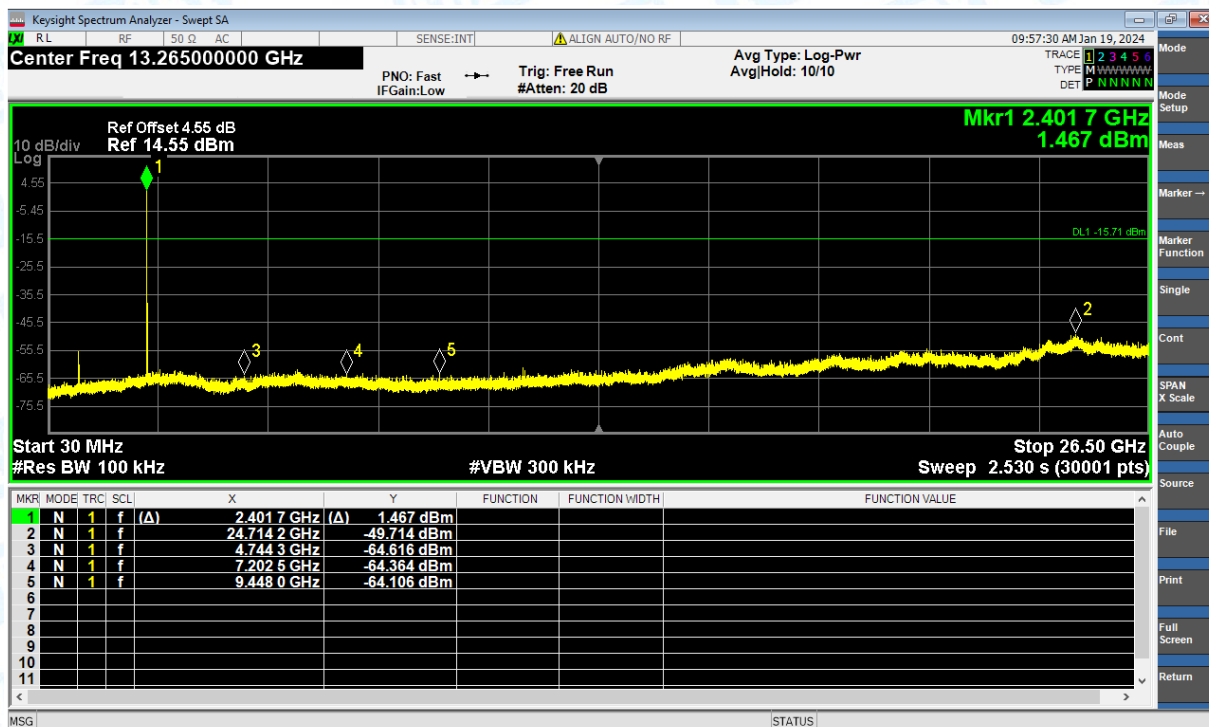
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



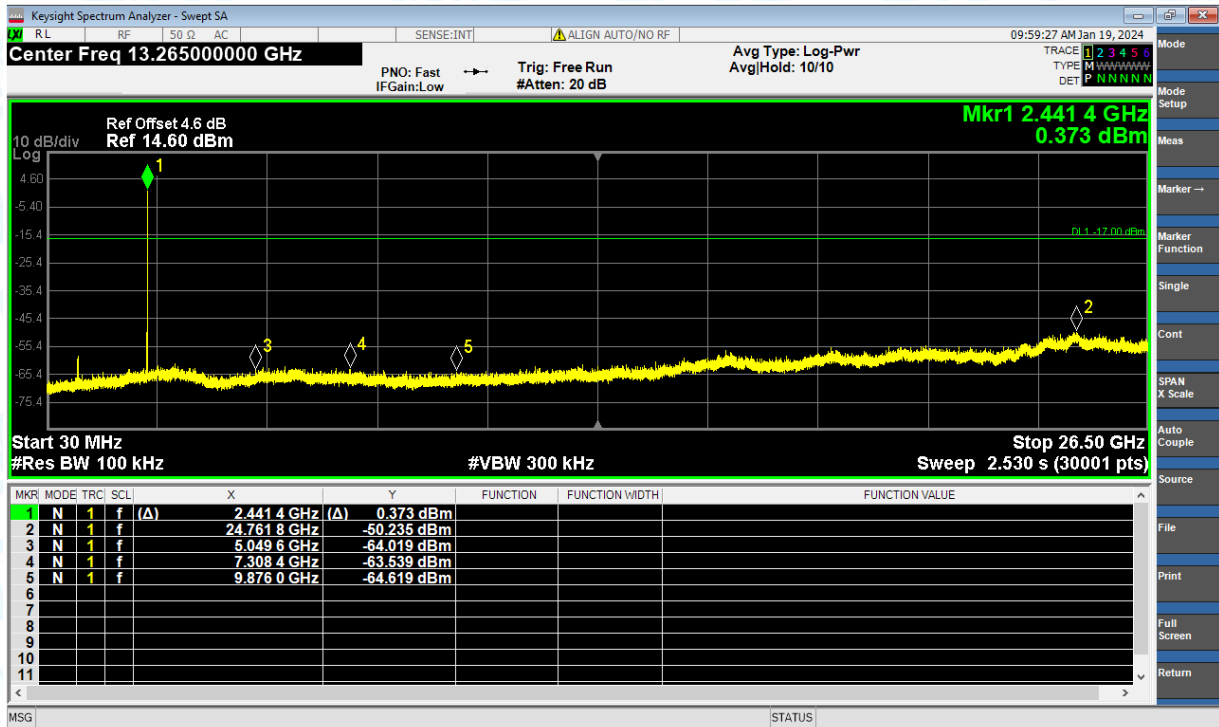
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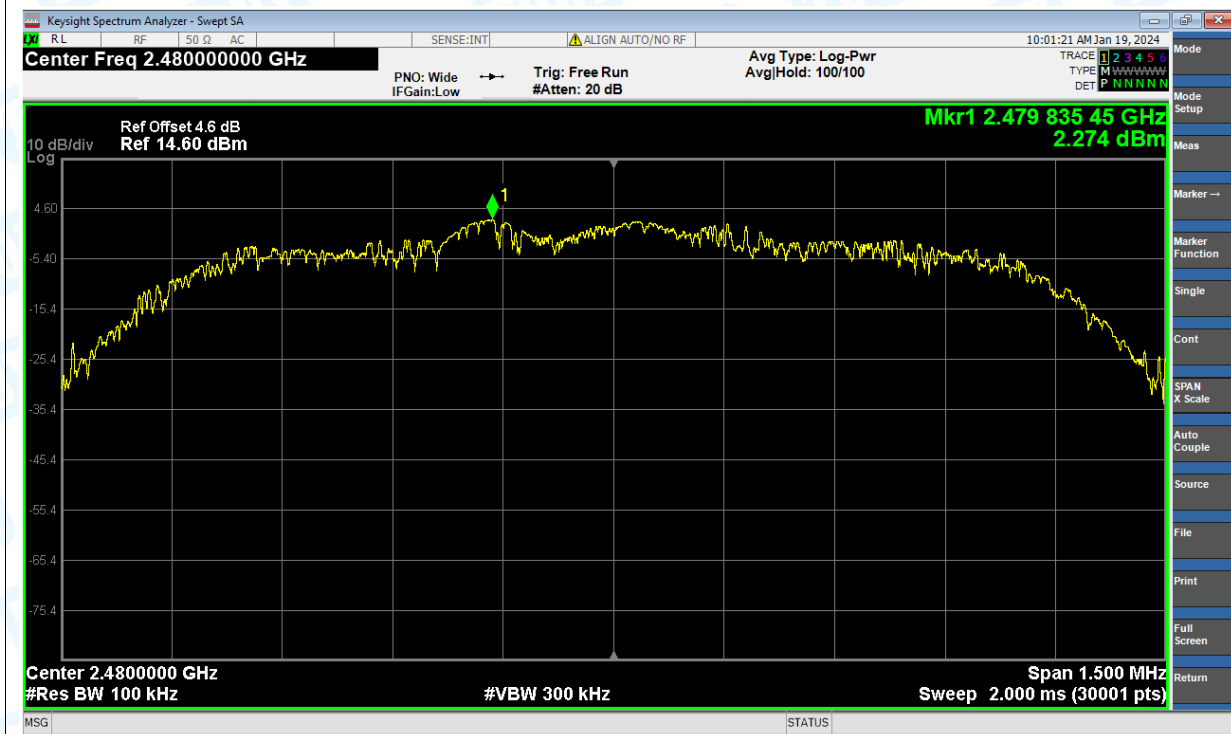
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



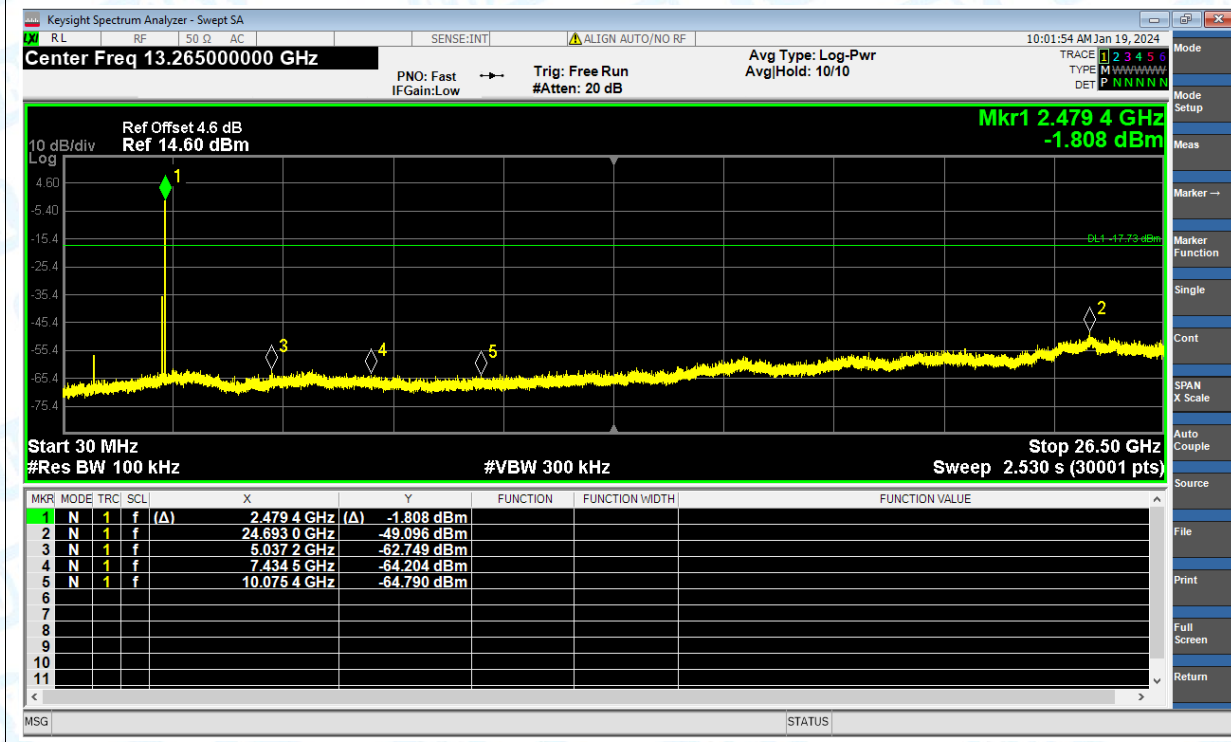
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

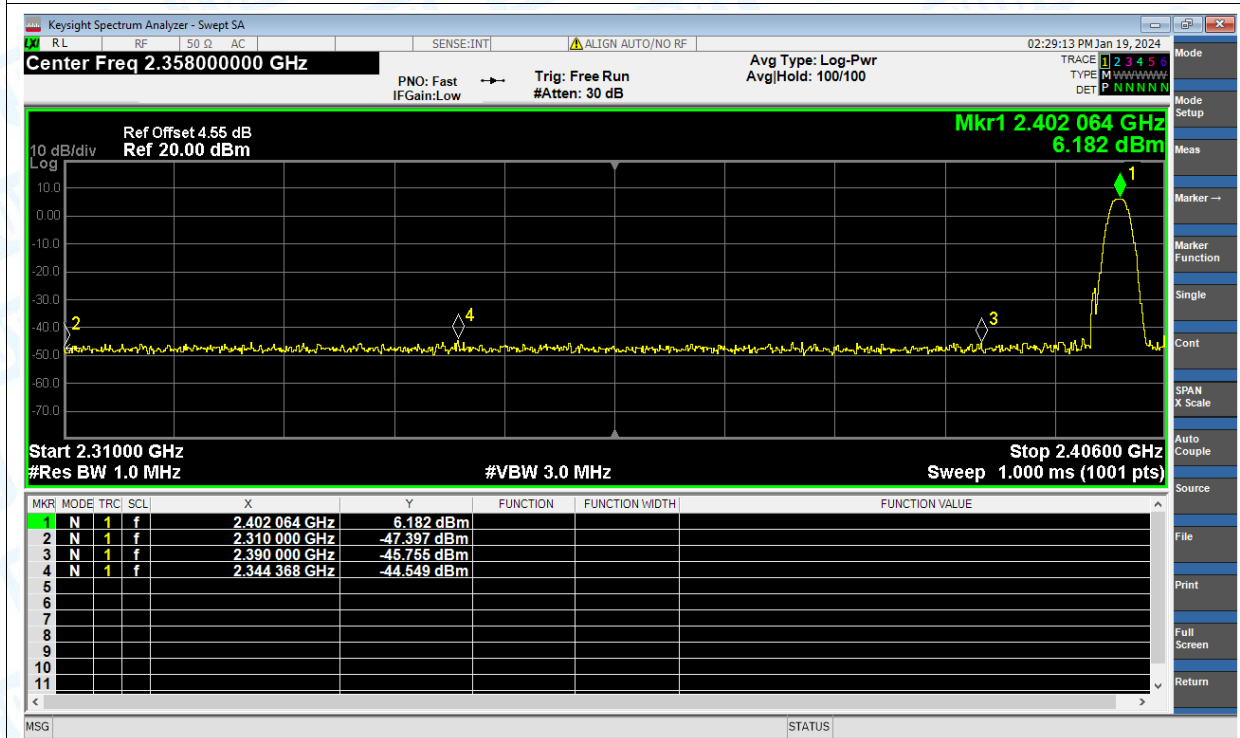


8. Restrict Band

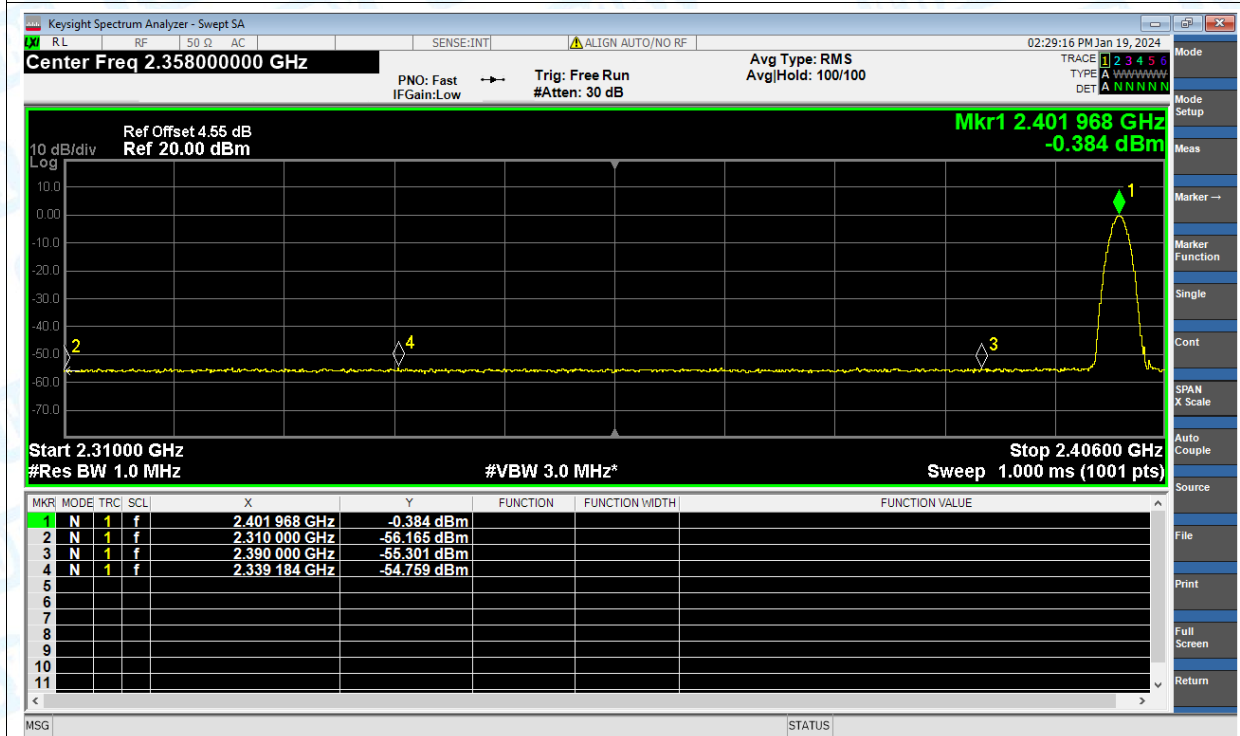
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.4	2	-	49.86	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.17	2	4.84	50.77	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2344.368	-44.55	2	-	52.71	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2339.184	-54.76	2	4.84	52.18	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.76	2	-	51.5	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.3	2	4.84	51.64	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.1	2	-	52.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.11	2	4.95	52.05	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2497.768	-44.47	2	-	52.79	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.16	-54.45	2	4.95	52.71	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.87	2	-	49.39	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.45	2	4.95	51.71	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.54	2	-	49.72	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.67	2	4.95	51.49	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2355.6	-44.1	2	-	53.16	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2383.248	-54.91	2	4.95	52.25	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.46	2	-	49.8	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.96	2	4.95	51.2	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.08	2	-	52.18	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.2	2	4.95	52.07	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.672	-44.35	2	-	52.91	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2489.128	-54.69	2	4.95	52.58	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.84	2	-	49.42	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.38	2	4.95	51.89	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-46.77	2	-	50.49	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.21	2	5.06	52.06	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2387.184	-44.58	2	-	52.68	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2381.04	-55.05	2	5.06	52.22	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.52	2	-	49.74	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.89	2	5.06	51.38	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.94	2	-	50.32	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.74	2	5.17	52.86	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2496.352	-44.21	2	-	53.05	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.784	-54.51	2	5.17	53.09	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.43	2	-	50.83	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.73	2	5.17	51.87	Average	54	Pass

Test Graphs

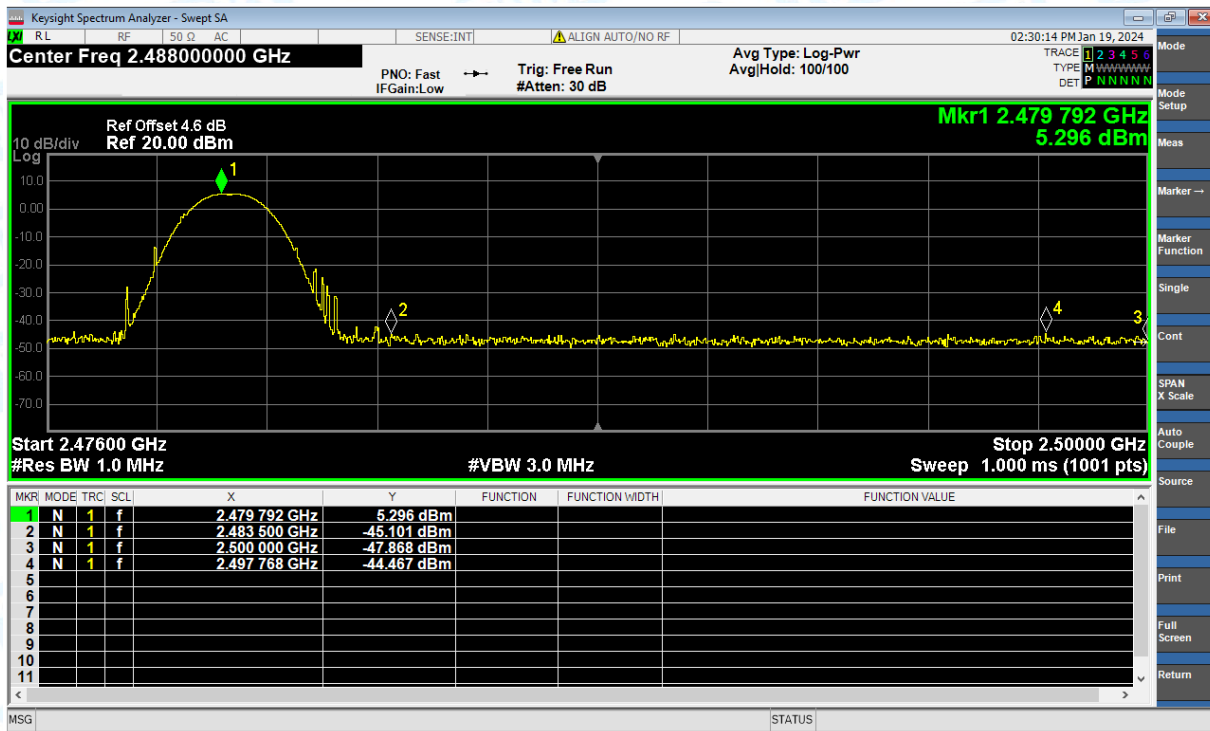
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



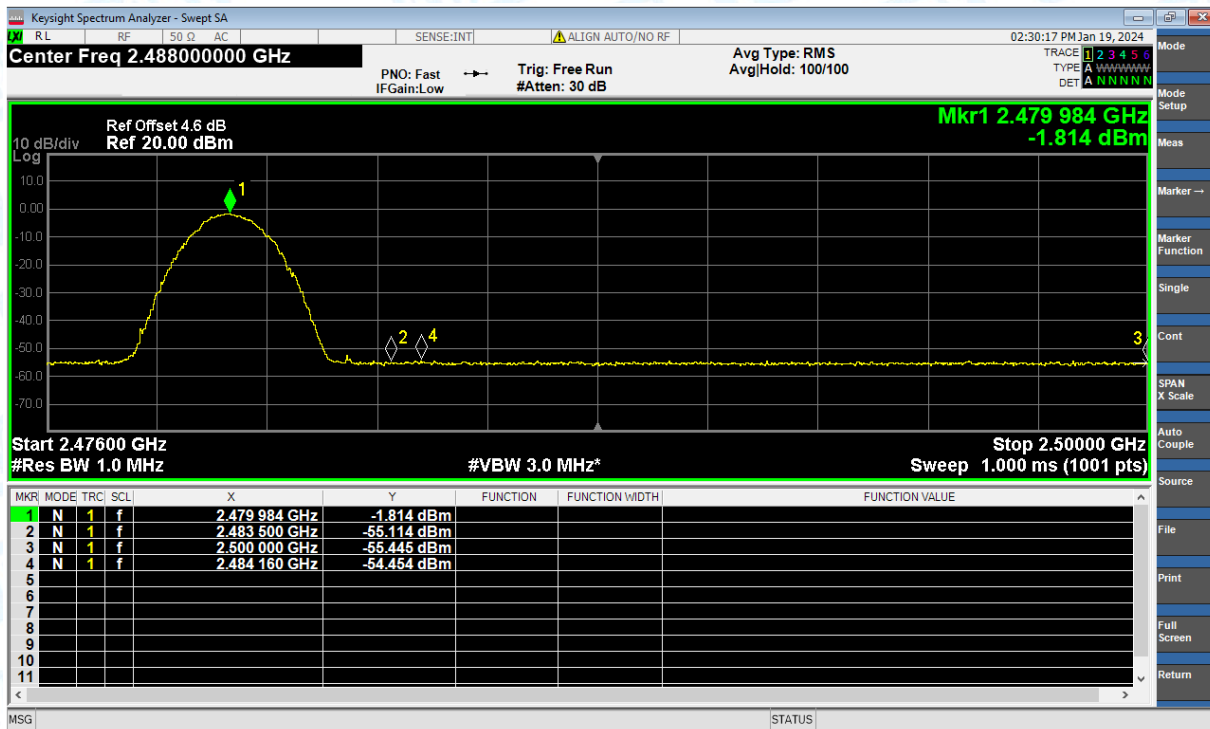
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



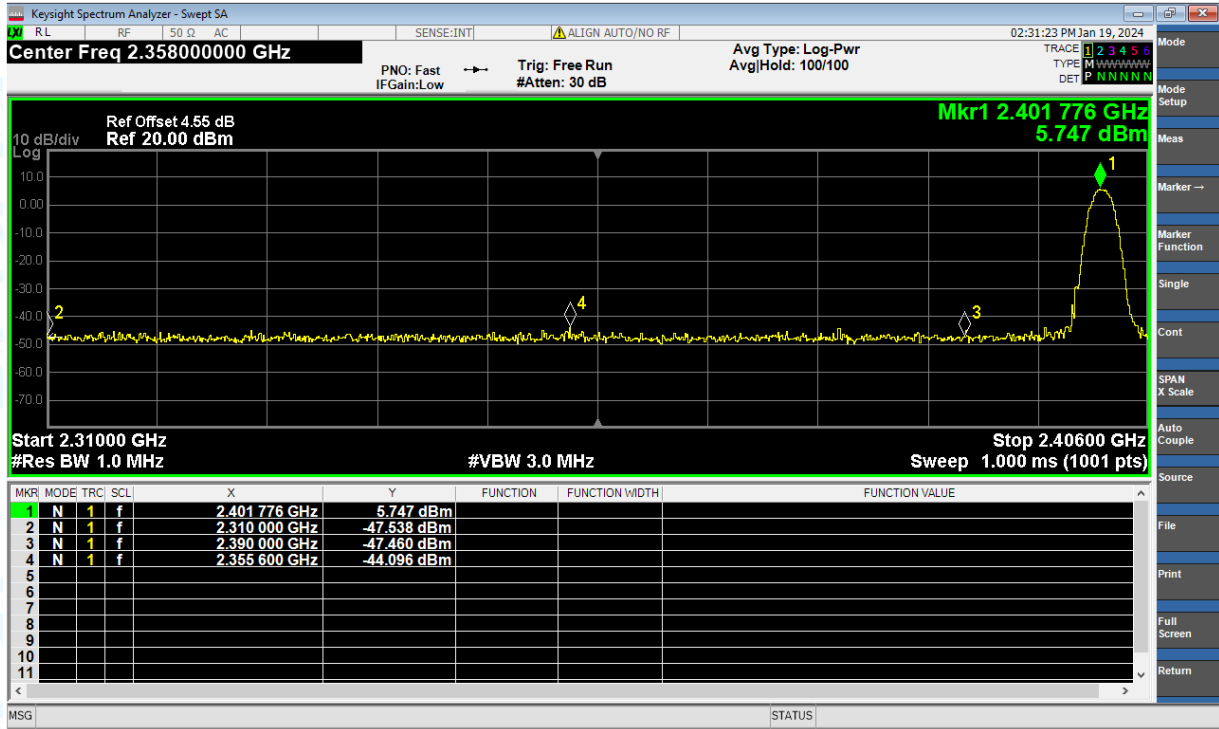
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



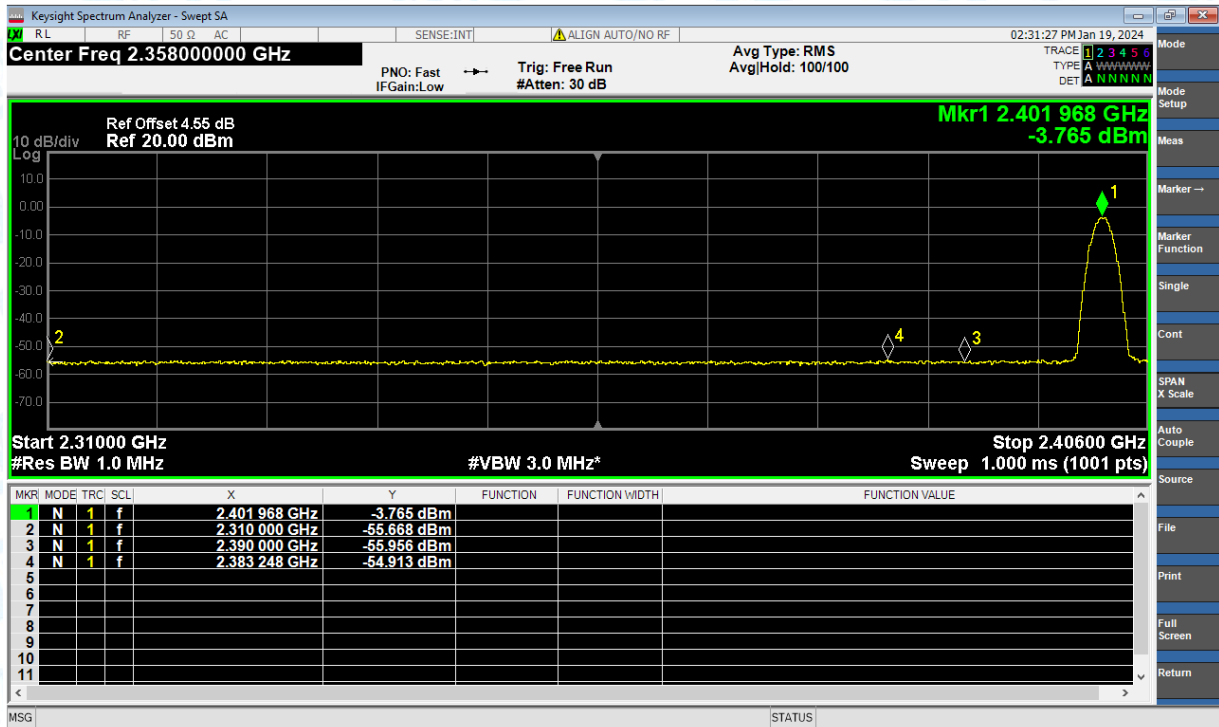
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



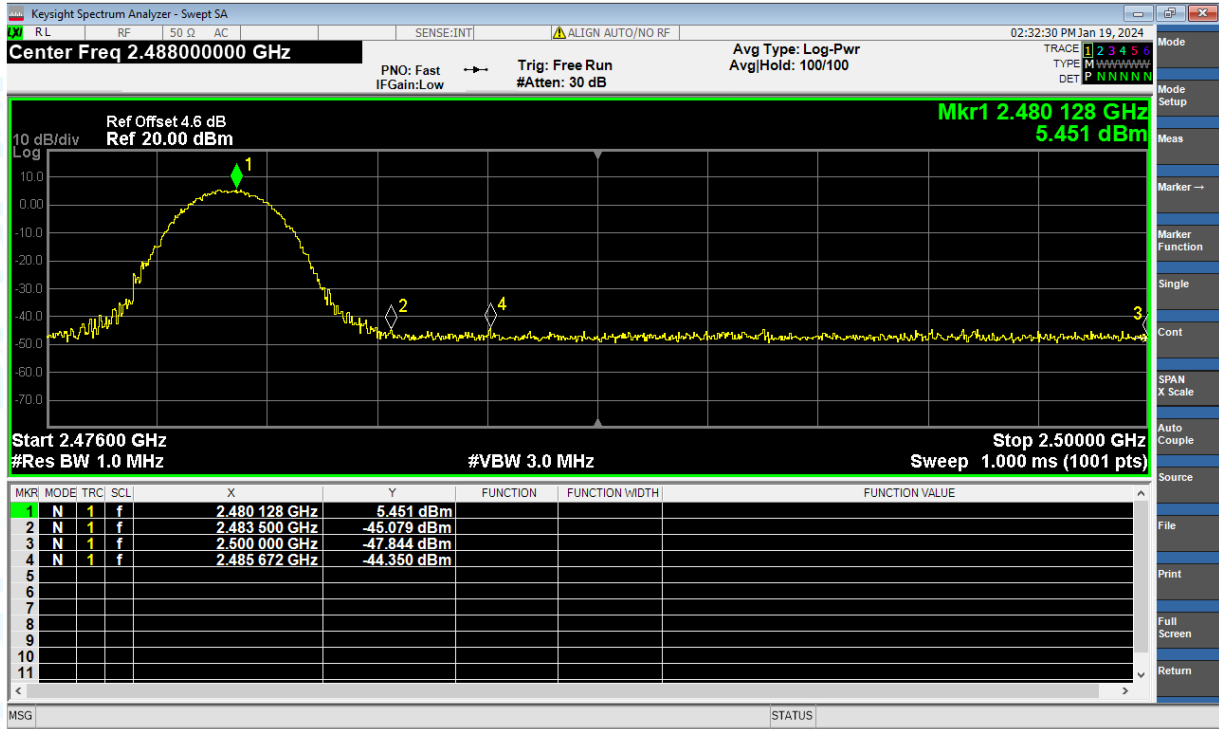
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



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



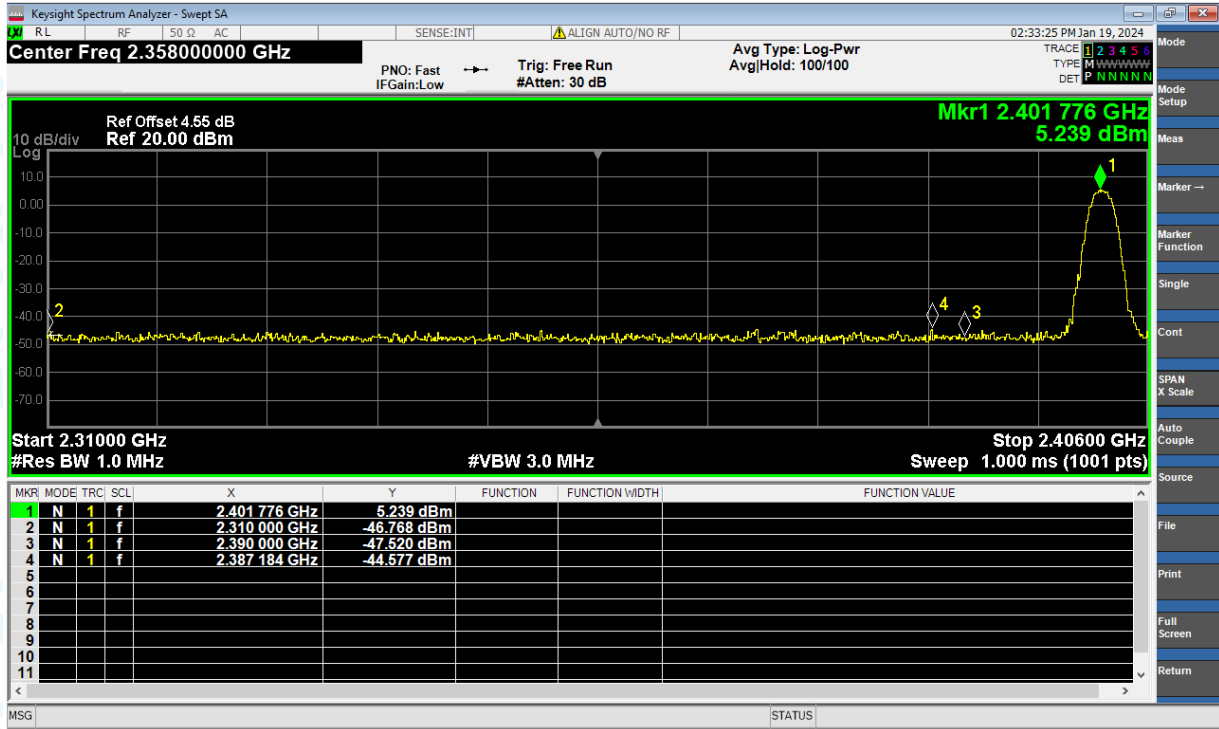
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



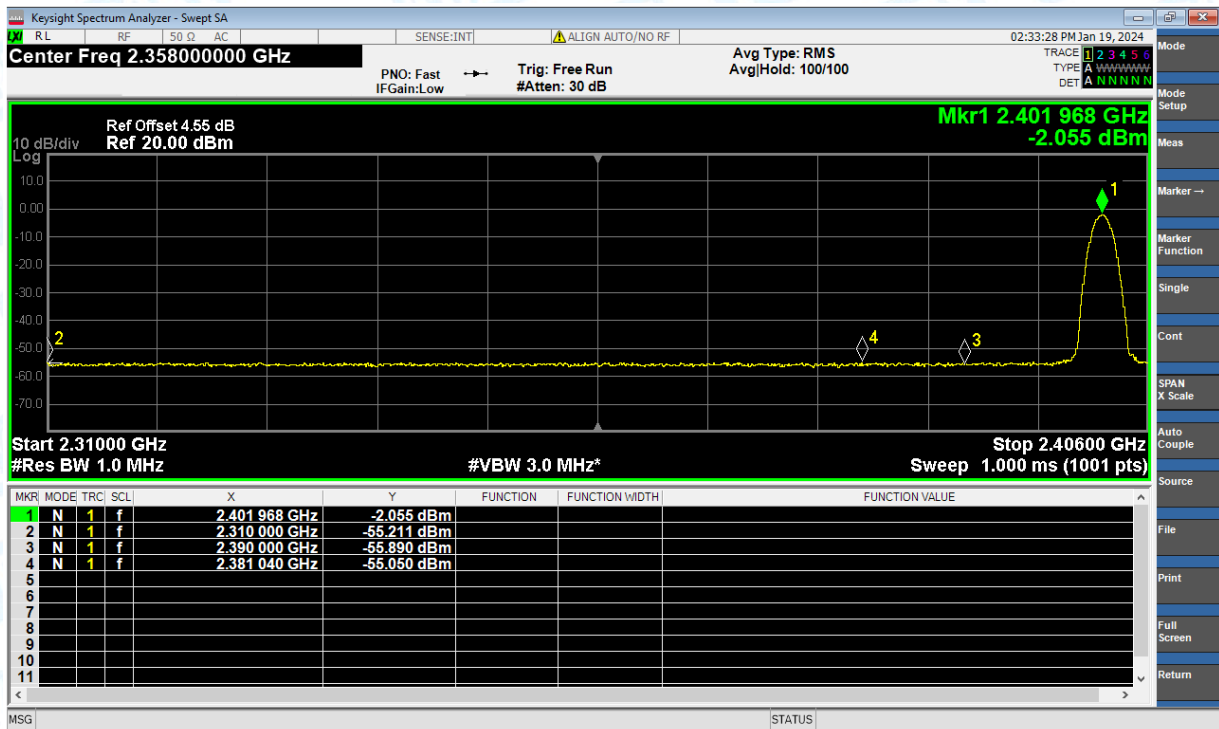
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



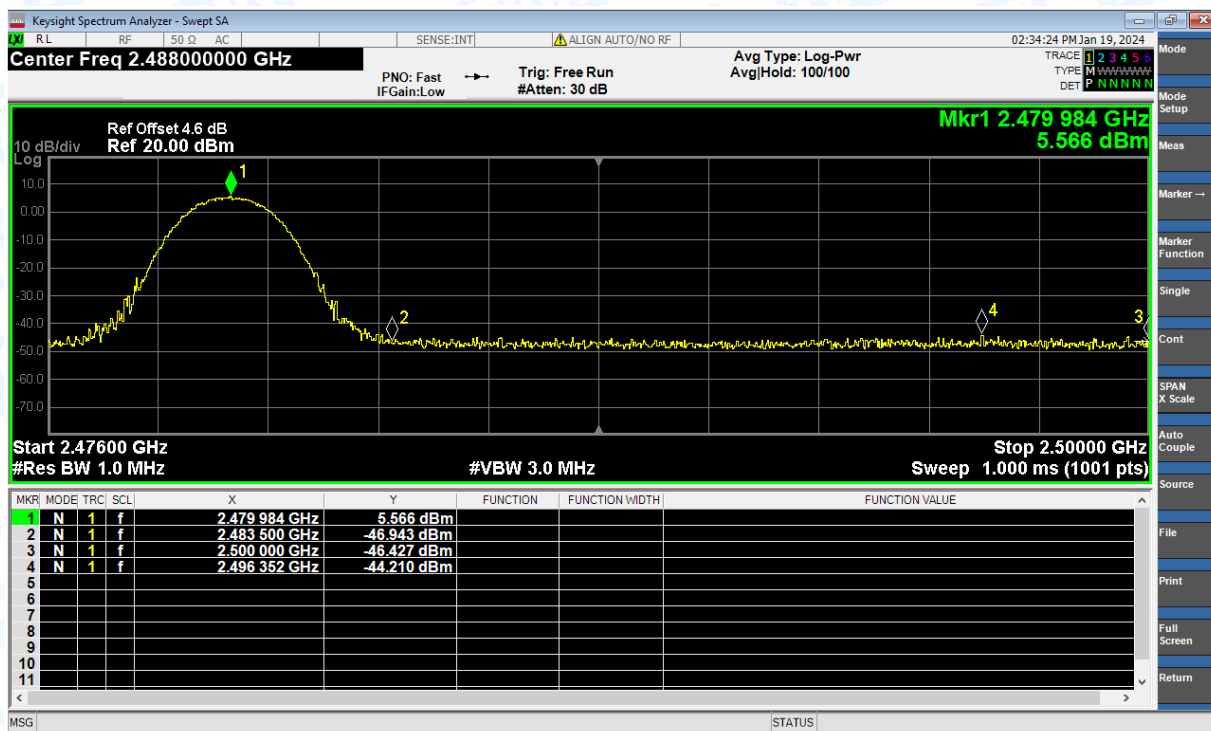
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



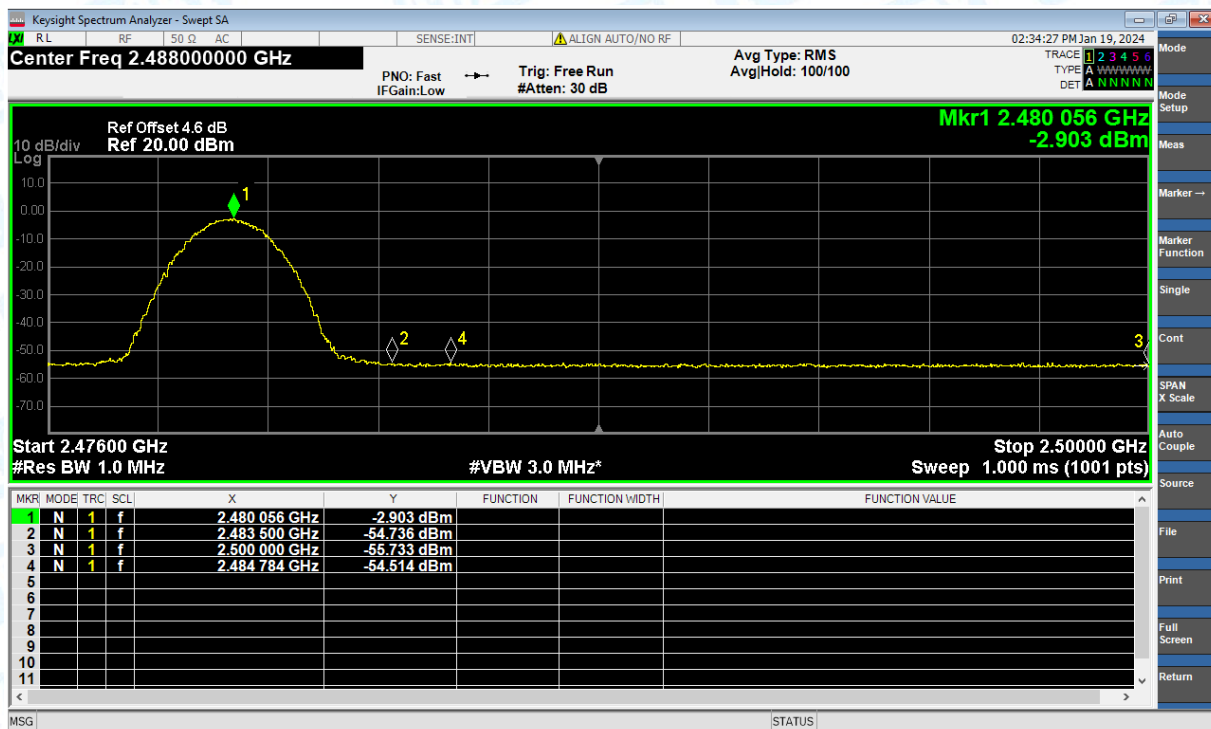
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

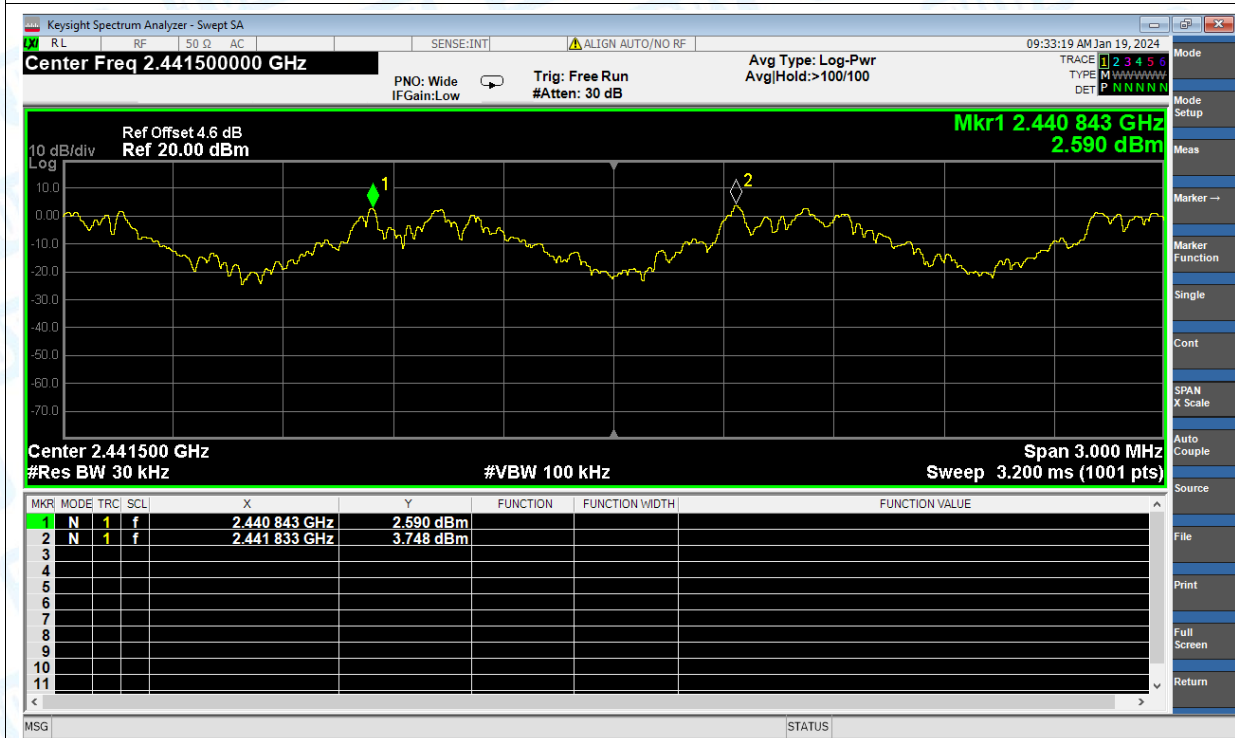


9. Carrier Frequencies Separation

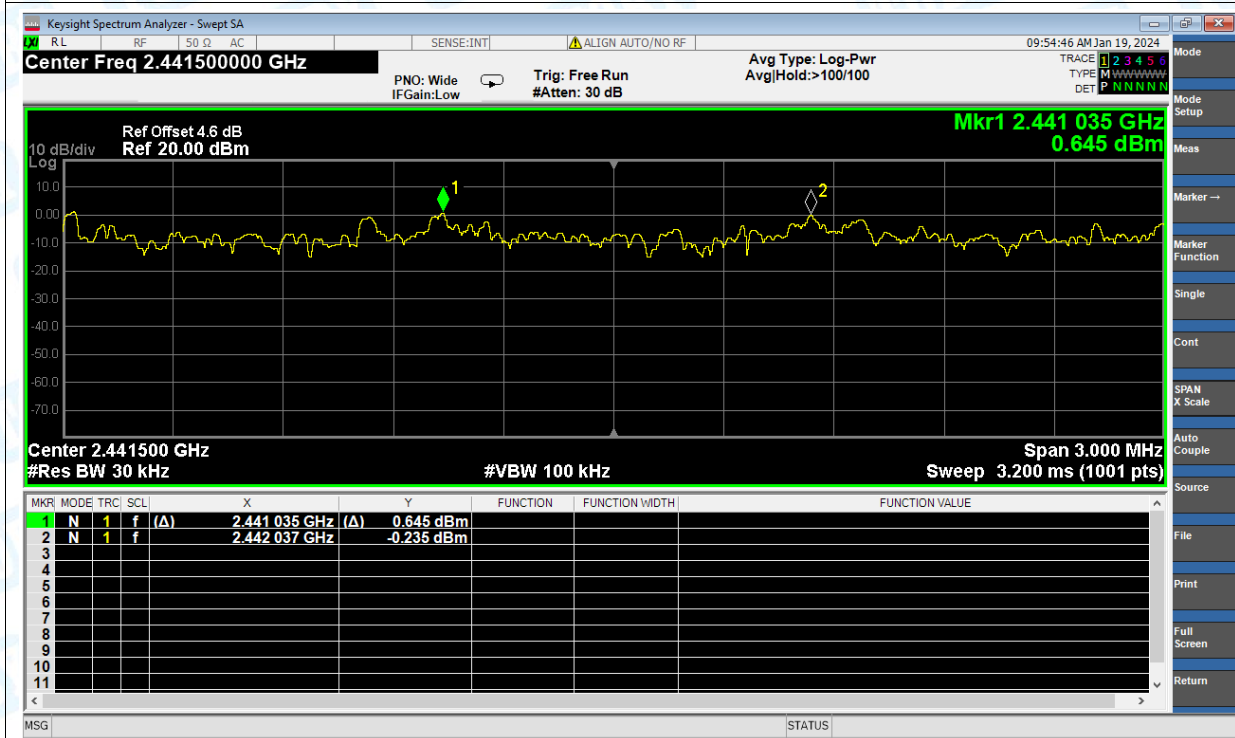
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.843	2441.833	0.99	0.573	Pass
NVNT	2-DH1	Ant1	2441.035	2442.037	1.002	0.833	Pass
NVNT	3-DH1	Ant1	2441.005	2442.028	1.023	0.827	Pass

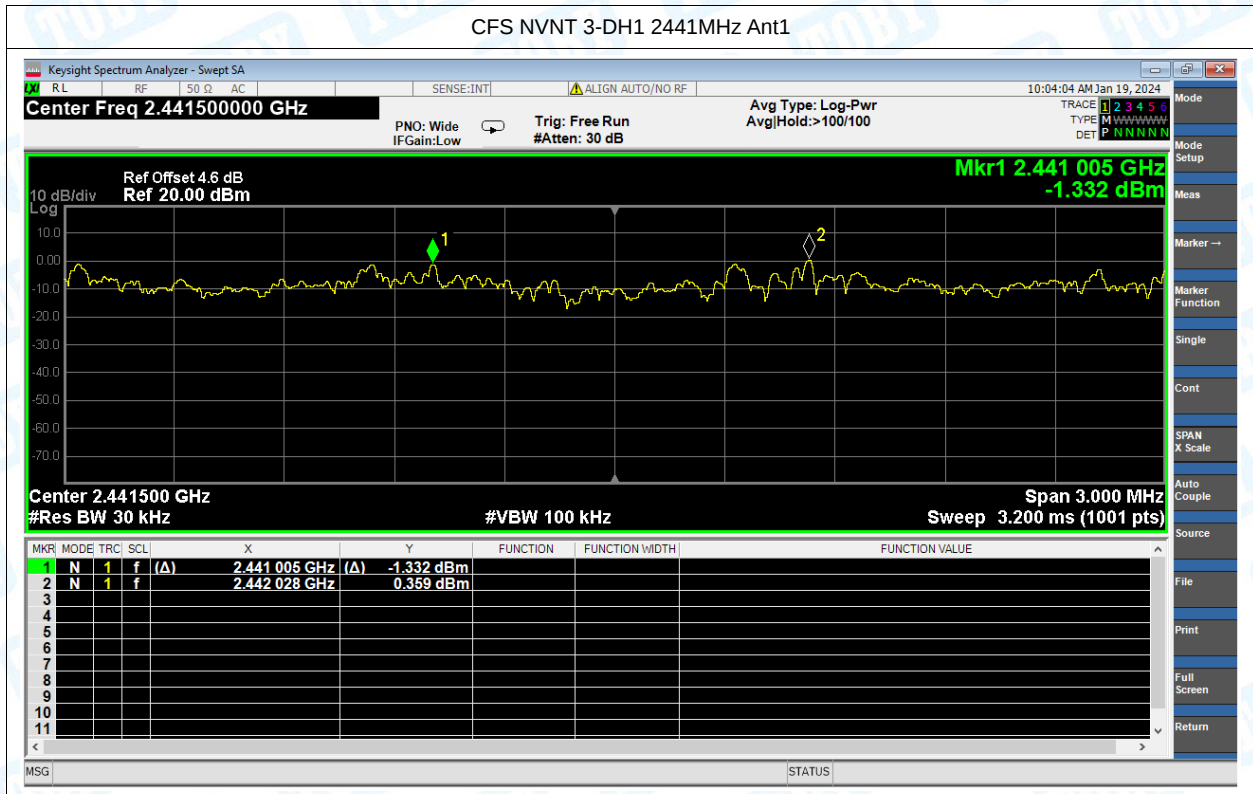
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



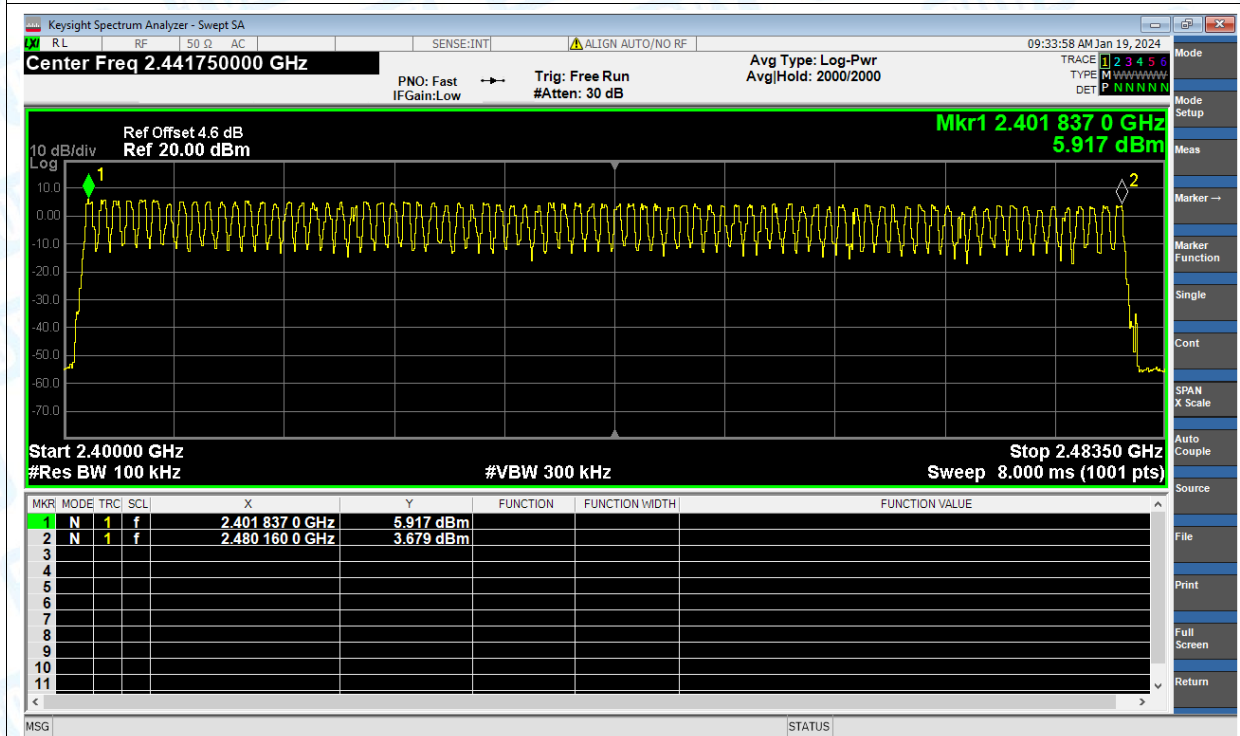


10. Number of Hopping Channel

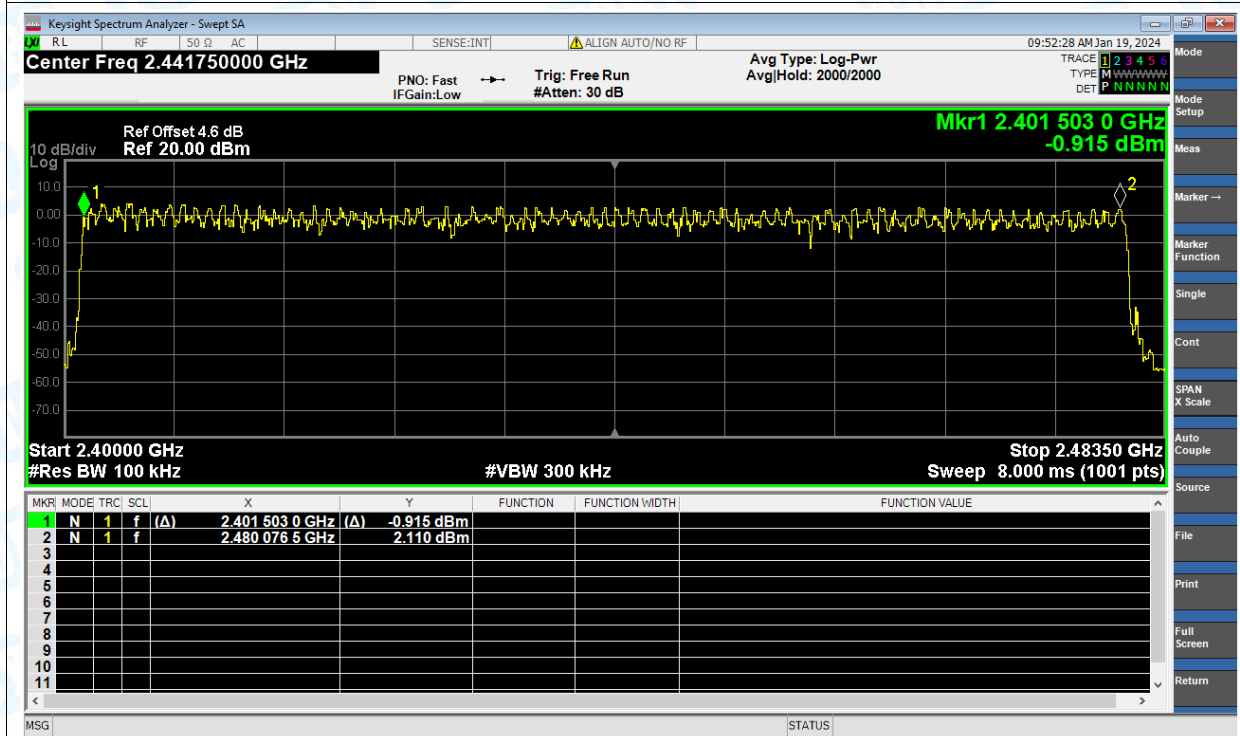
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

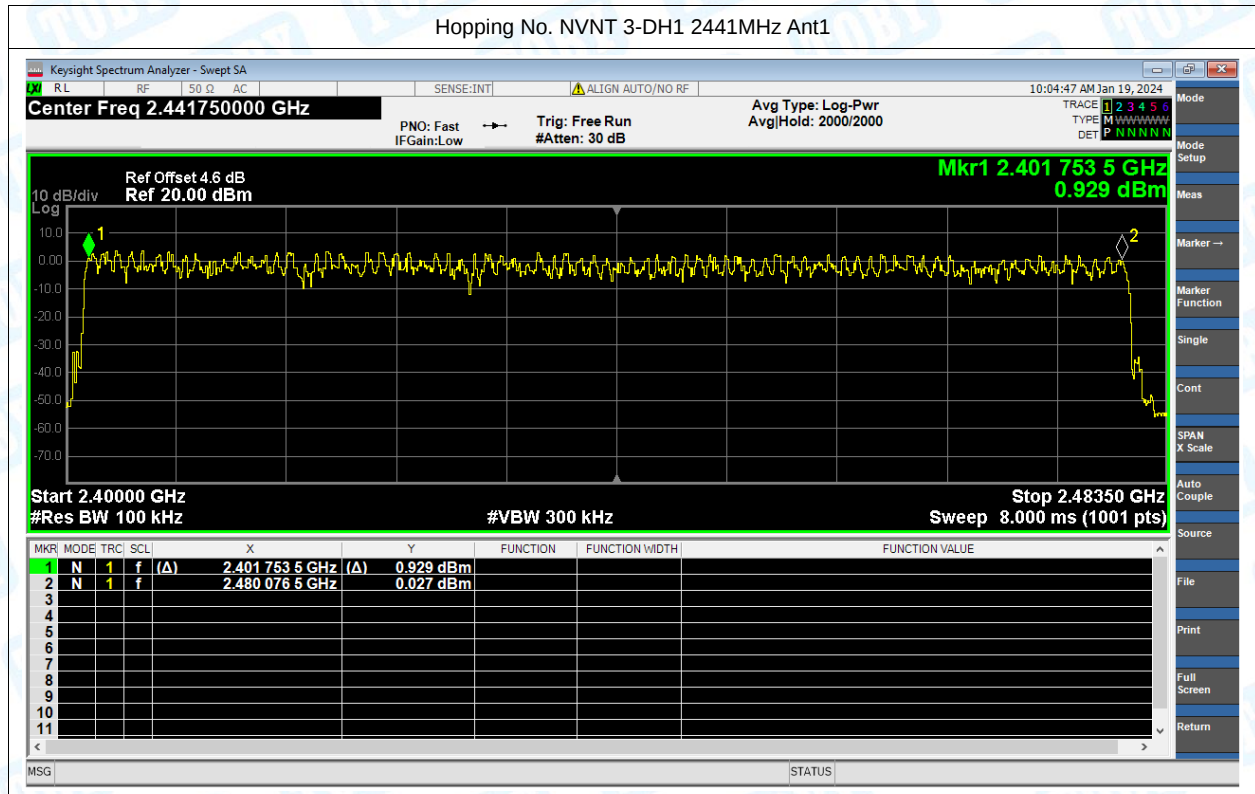
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



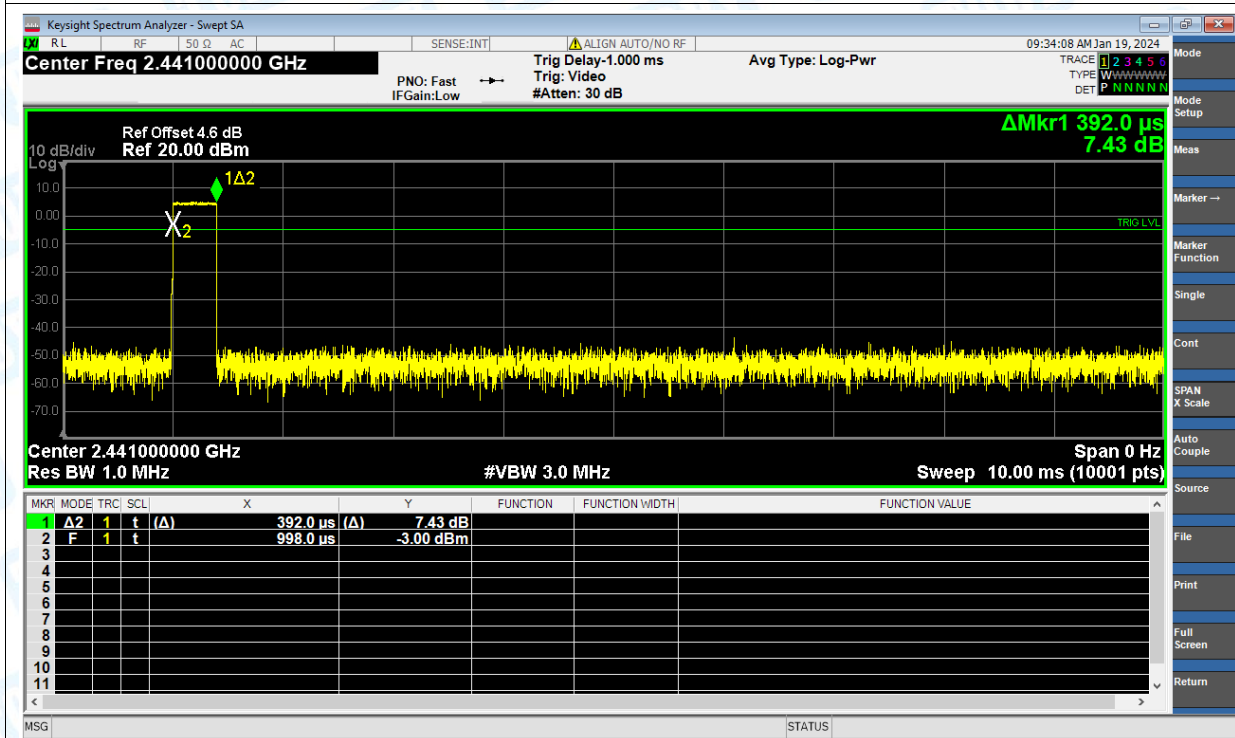


11. Dwell Time

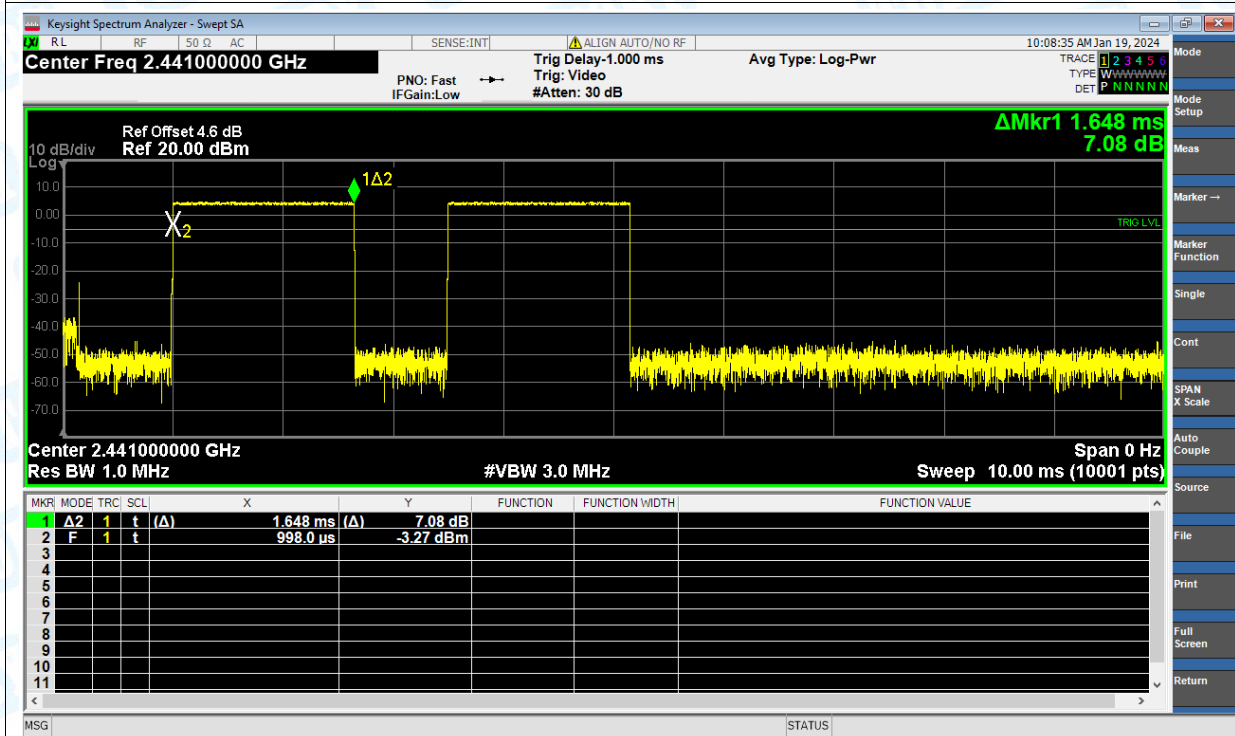
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	308.907	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	307.627	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

Test Graphs

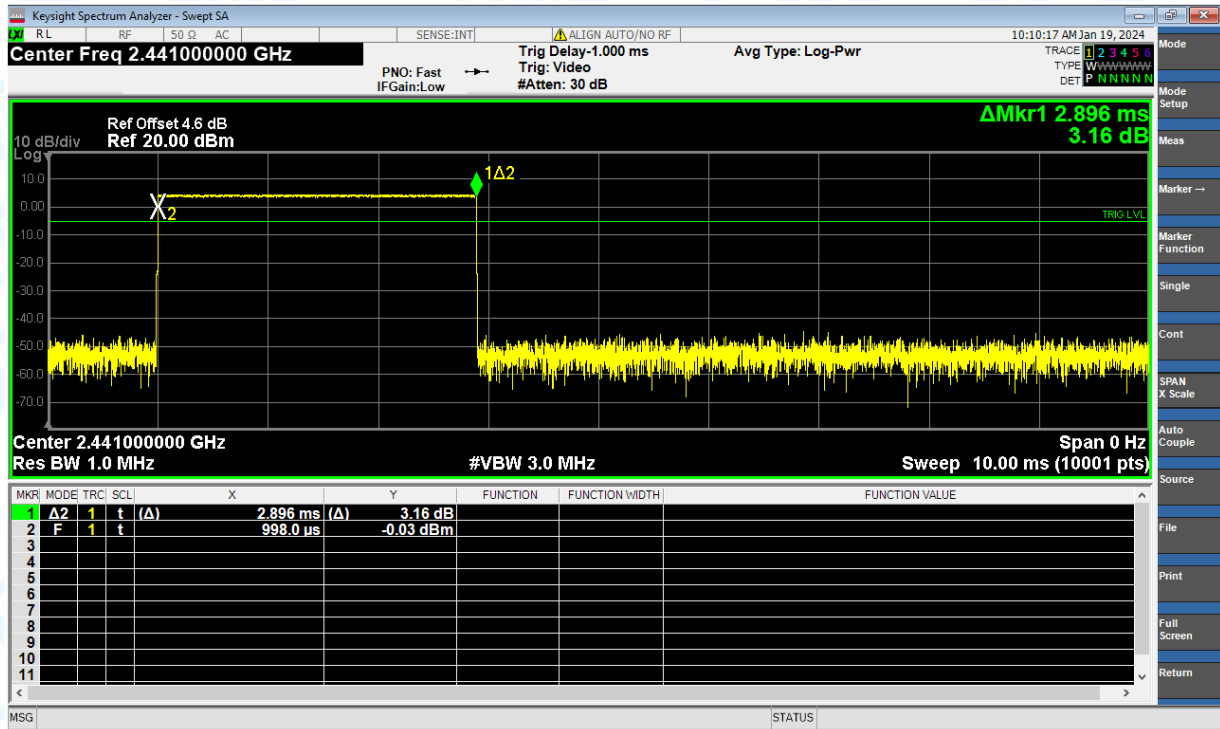
Dwell NVNT 1-DH1 2441MHz Ant1



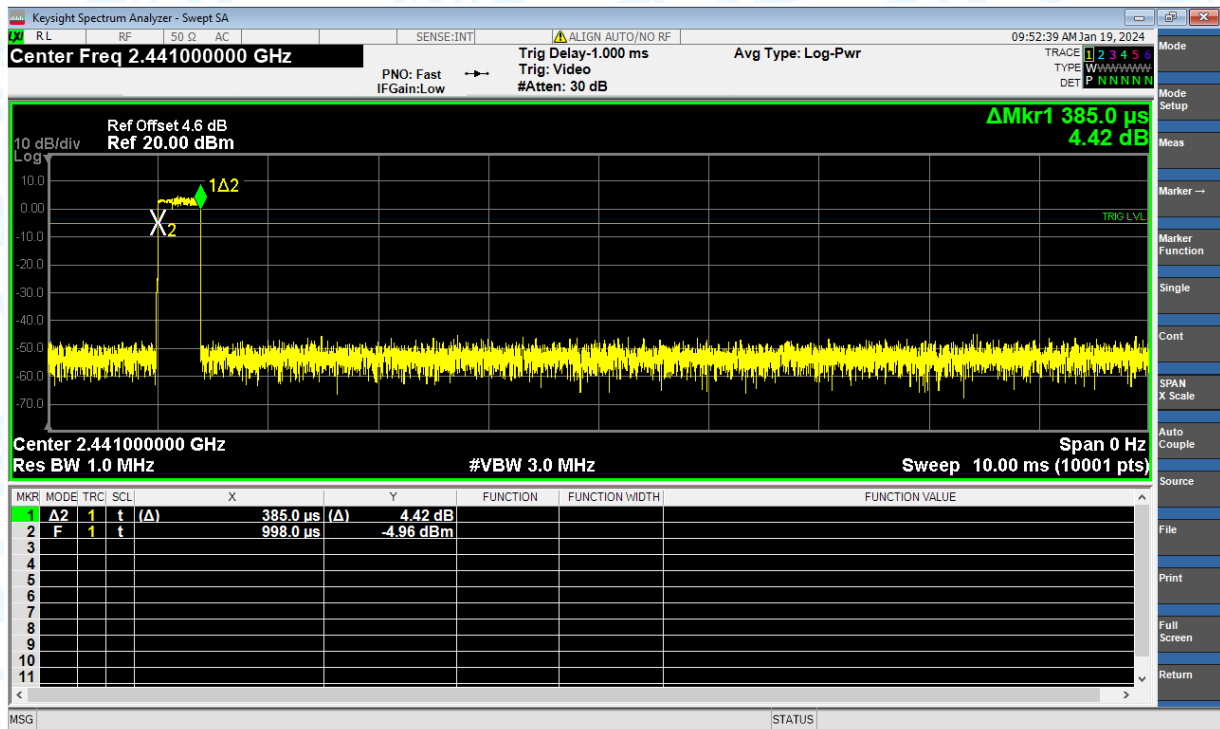
Dwell NVNT 1-DH3 2441MHz Ant1



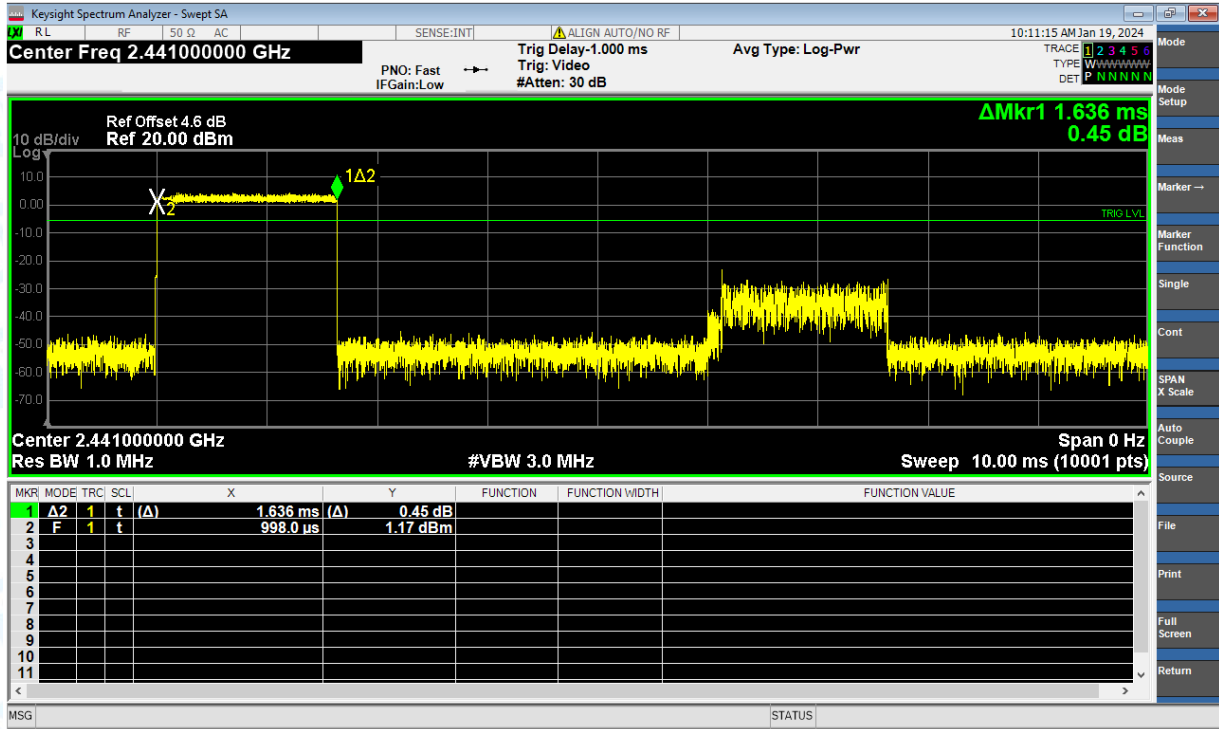
Dwell NVNT 1-DH5 2441MHz Ant1



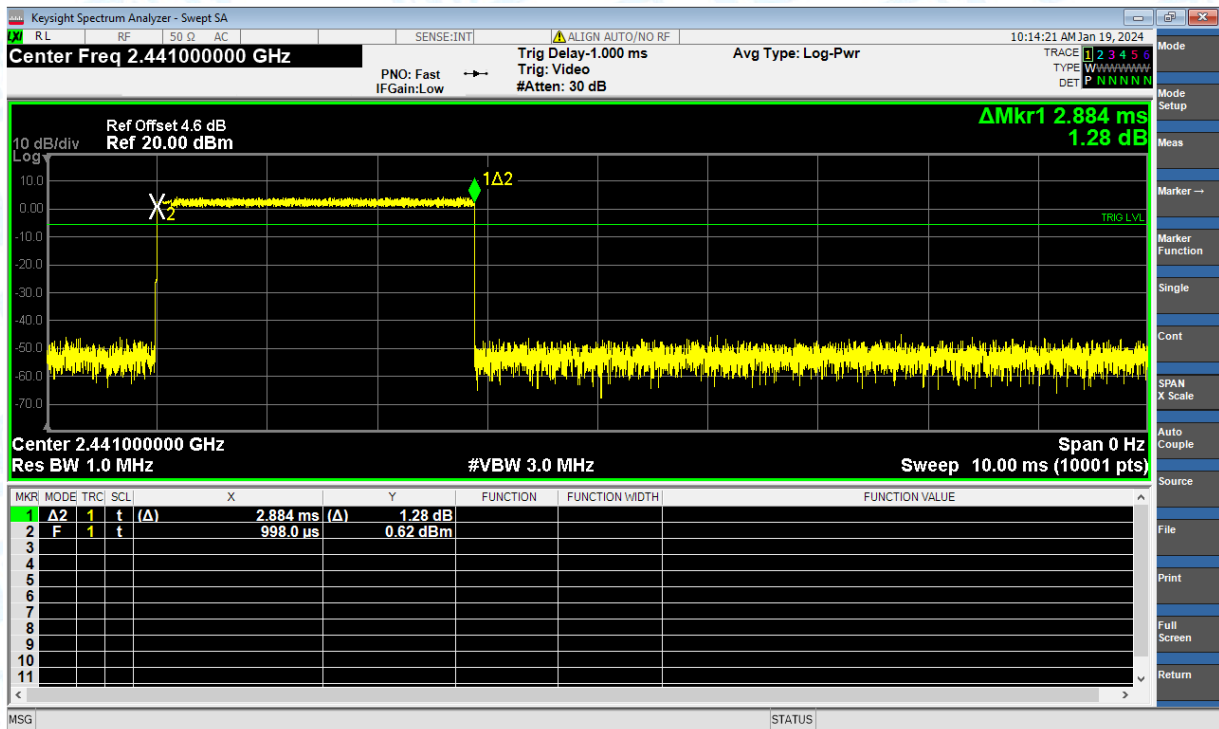
Dwell NVNT 2-DH1 2441MHz Ant1



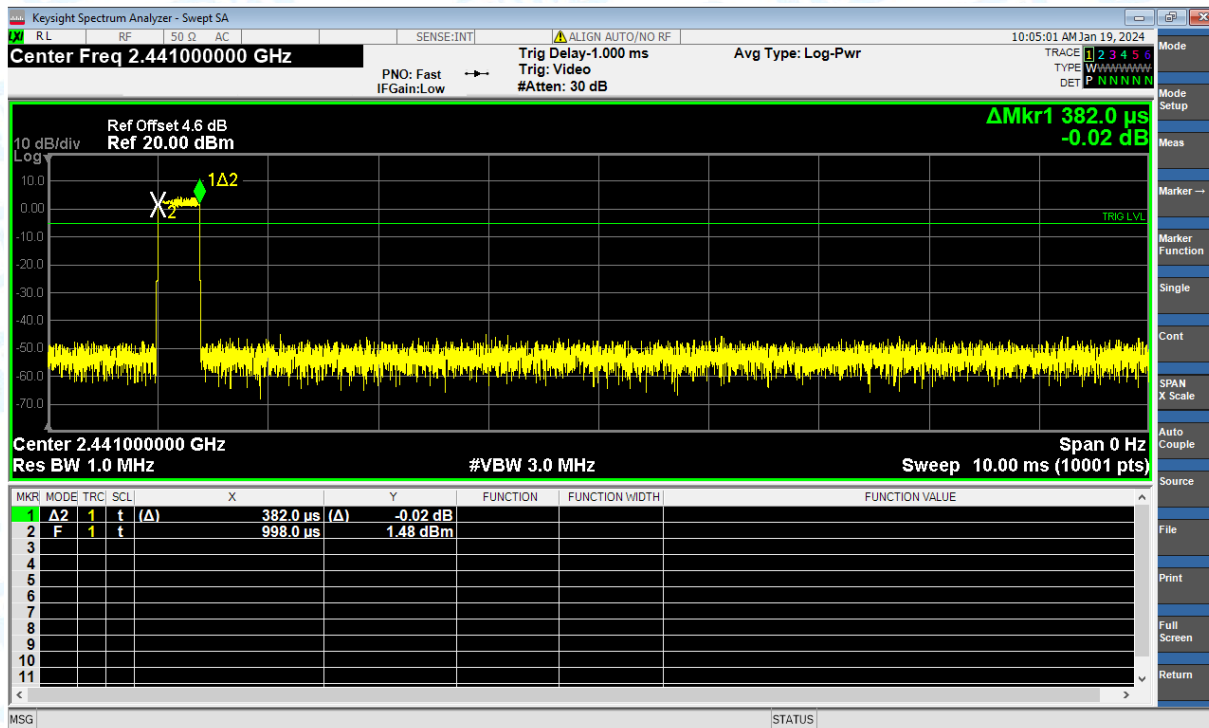
Dwell NVNT 2-DH3 2441MHz Ant1



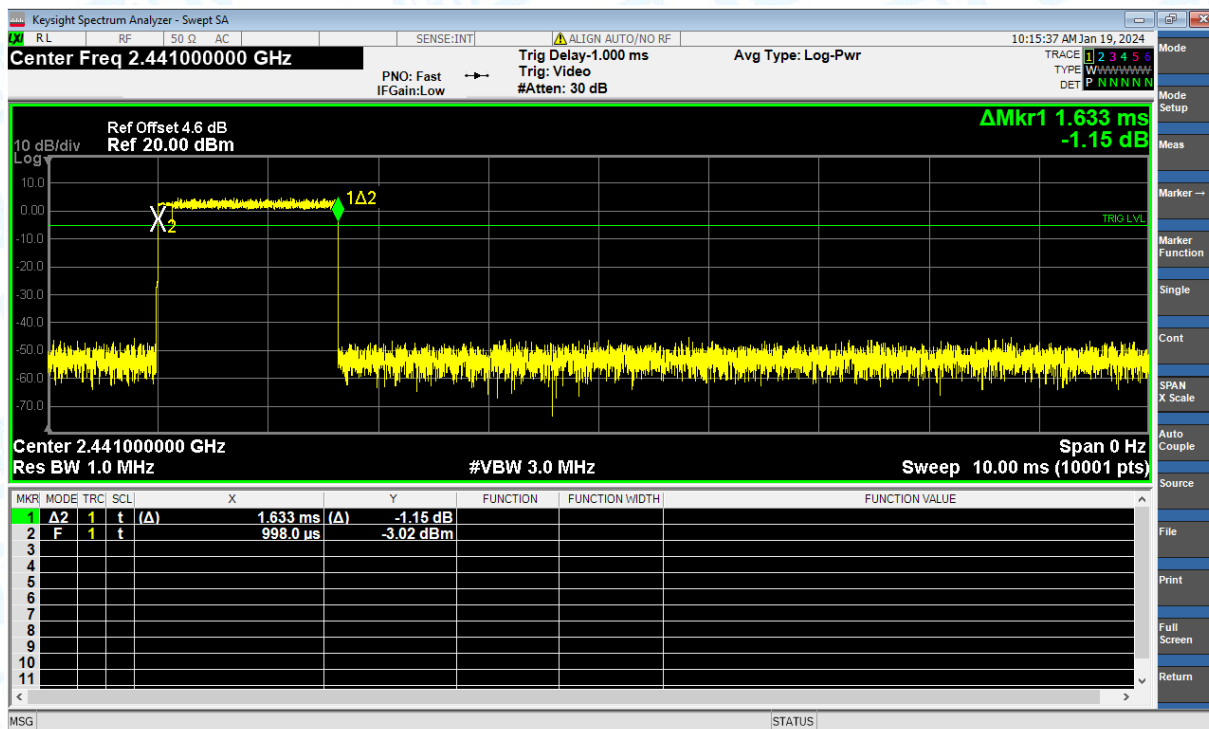
Dwell NVNT 2-DH5 2441MHz Ant1

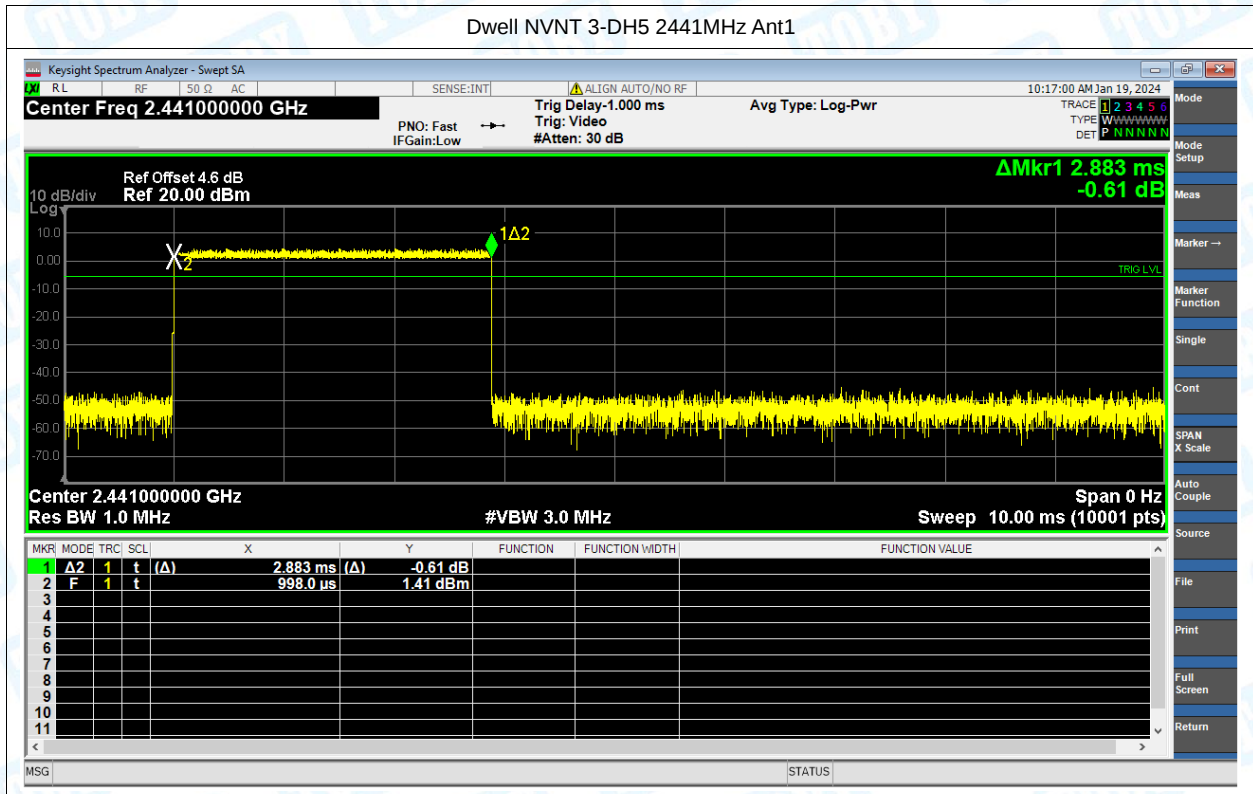


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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