

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

General Description of EUT	
Product Name:	Tablet
Test Model:	CP20 Pro
Sample ID:	202203-0192-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202203-0192-61 The report only show the worst case data.	

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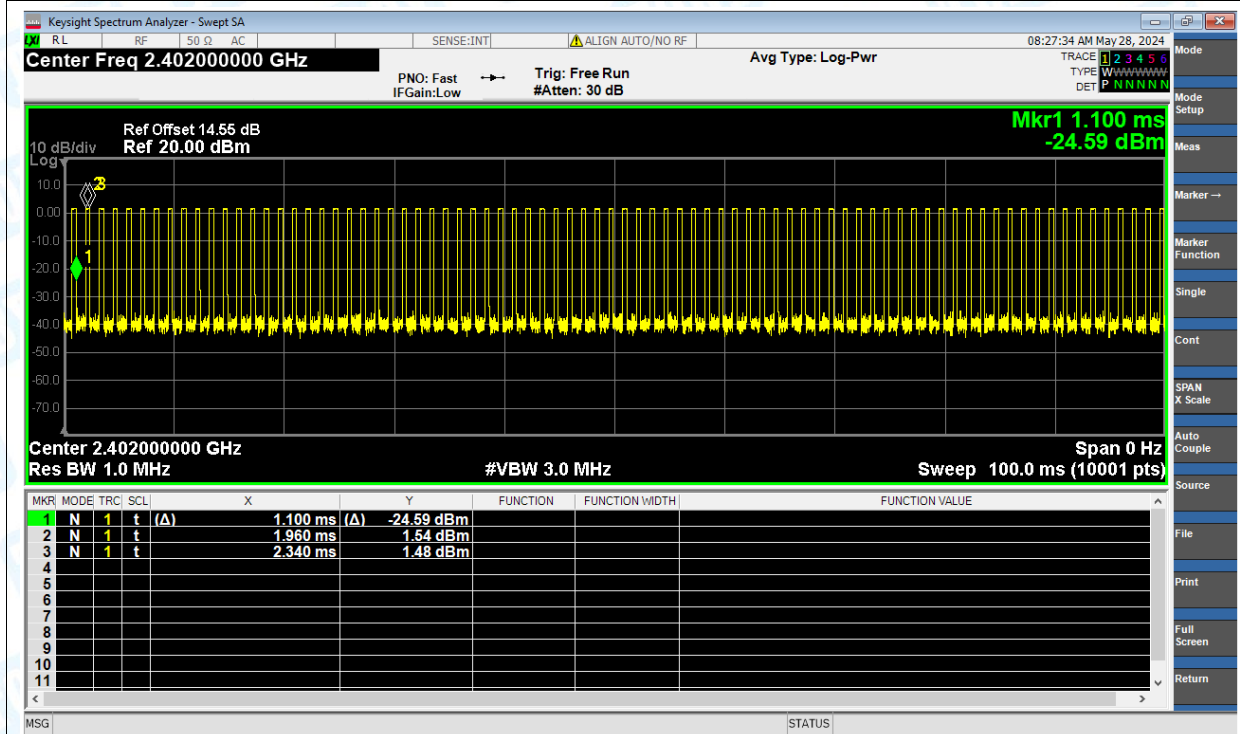
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1. Duty Cycle

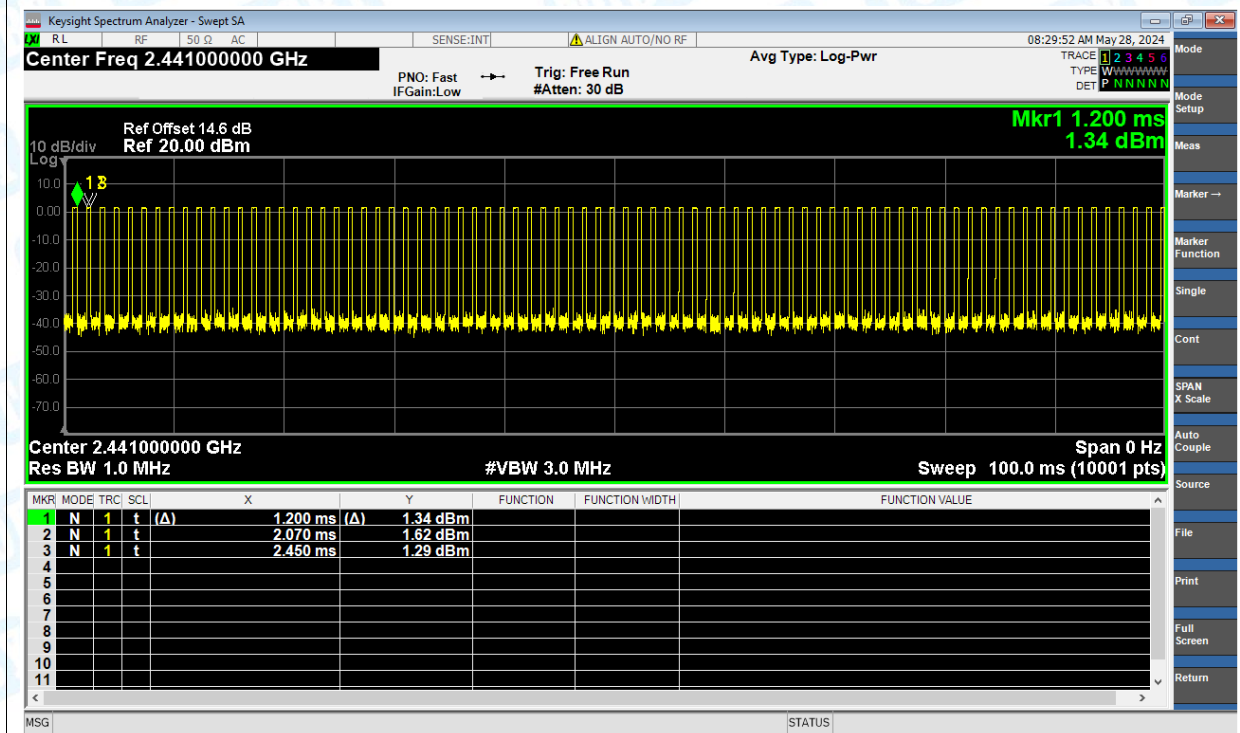
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.65	5.14	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	32	4.95	2.5

Test Graphs

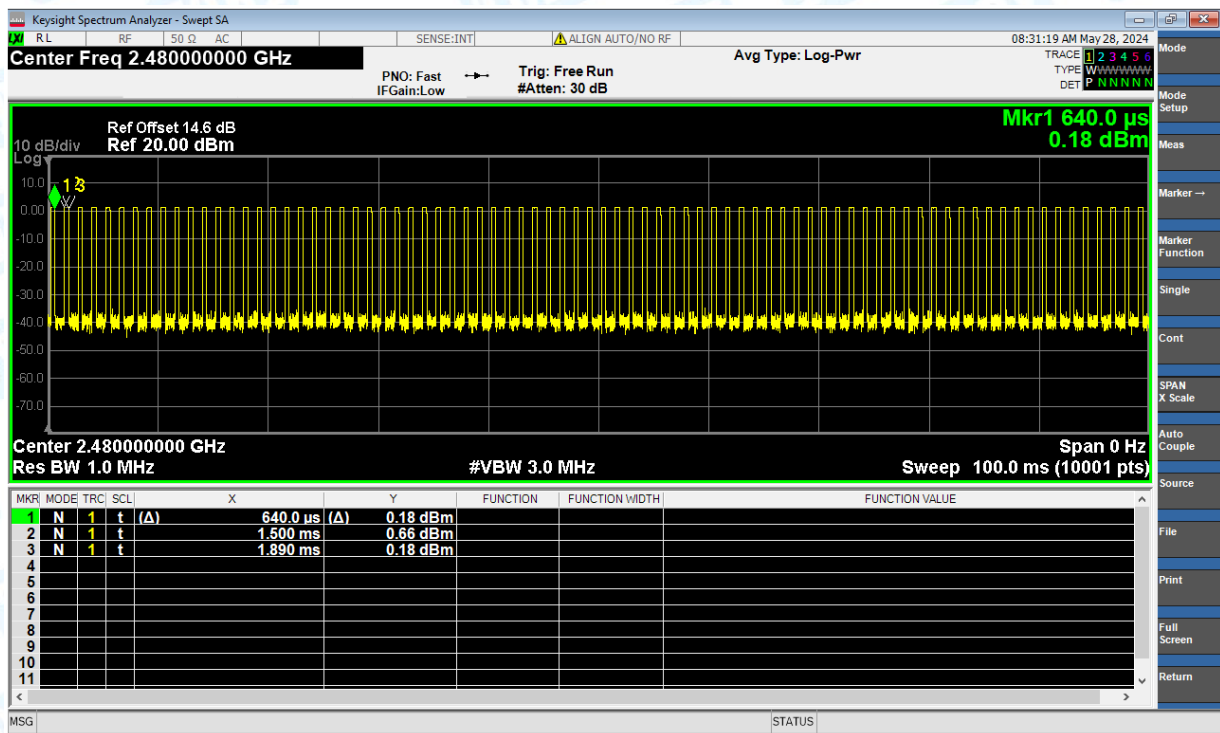
Duty Cycle NVNT 1-DH1 2402MHz Ant1



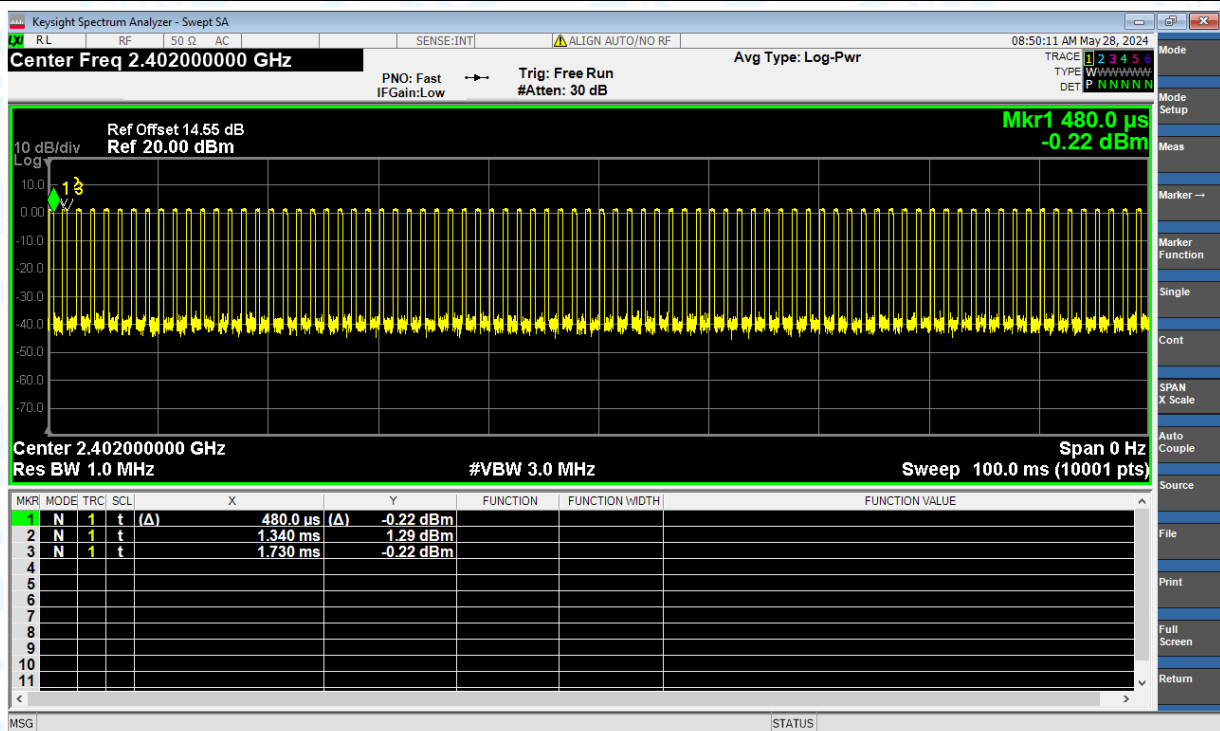
Duty Cycle NVNT 1-DH1 2441MHz Ant1



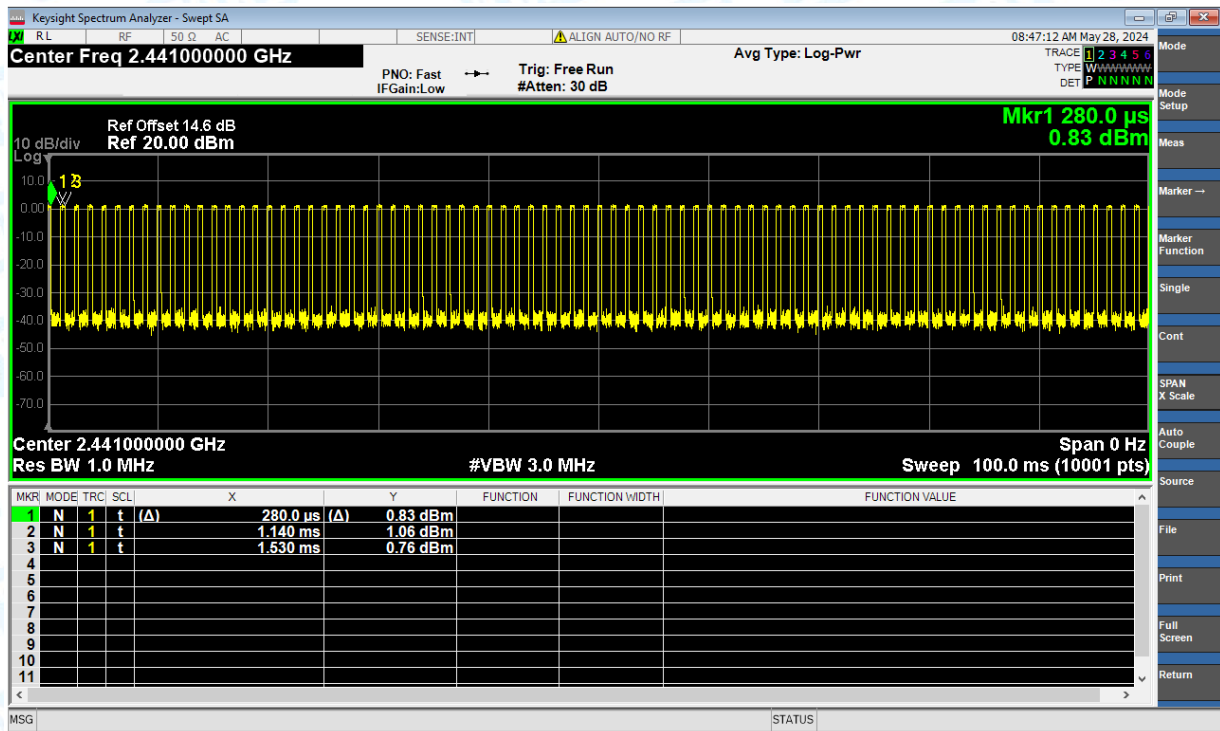
Duty Cycle NVNT 1-DH1 2480MHz Ant1



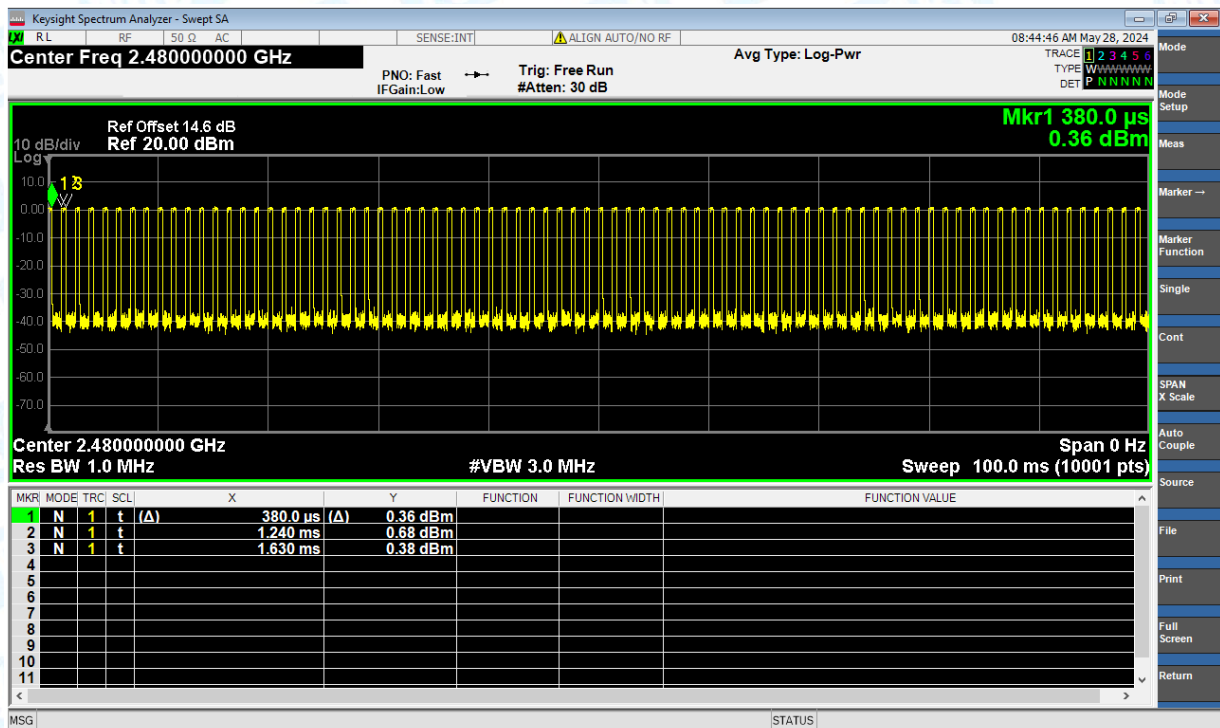
Duty Cycle NVNT 2-DH1 2402MHz Ant1



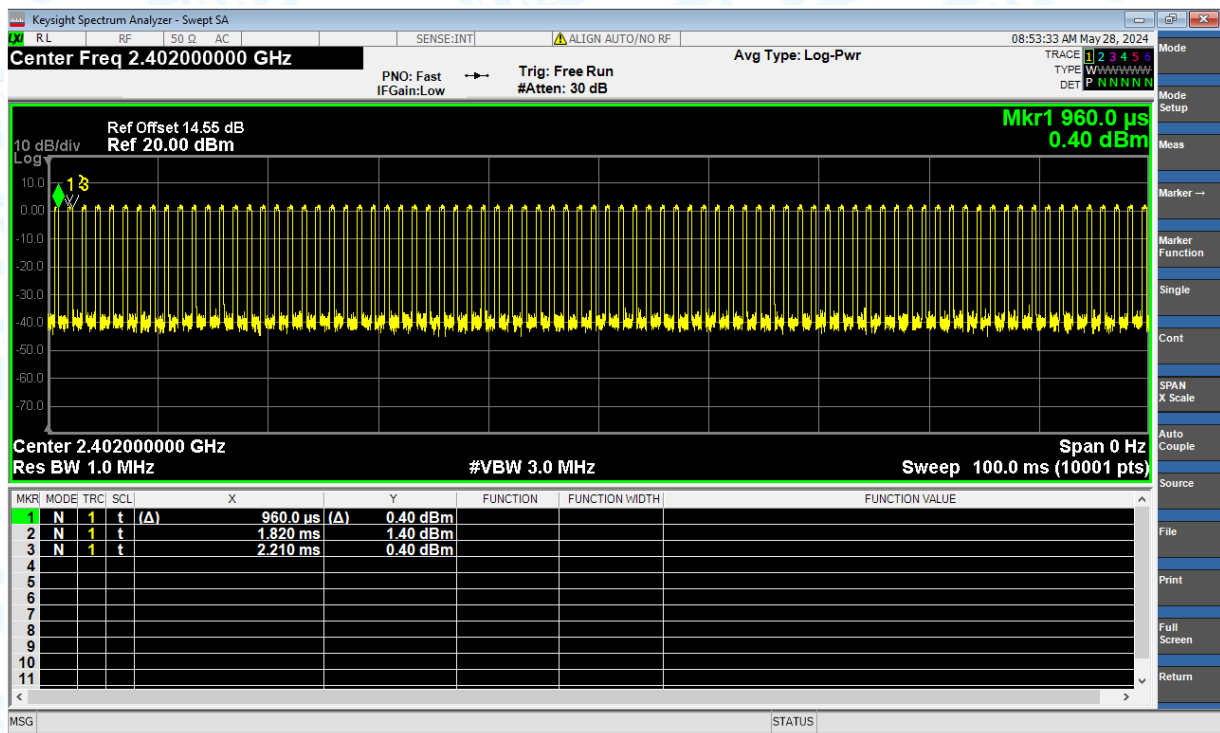
Duty Cycle NVNT 2-DH1 2441MHz Ant1



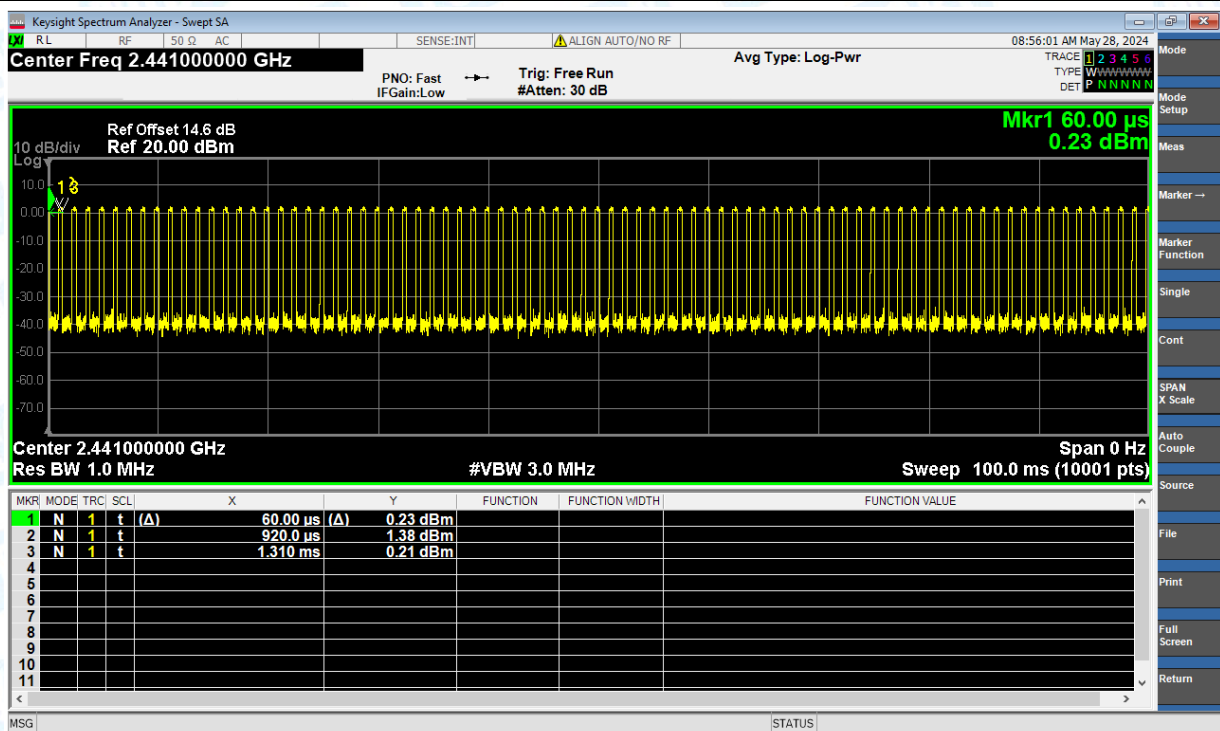
Duty Cycle NVNT 2-DH1 2480MHz Ant1

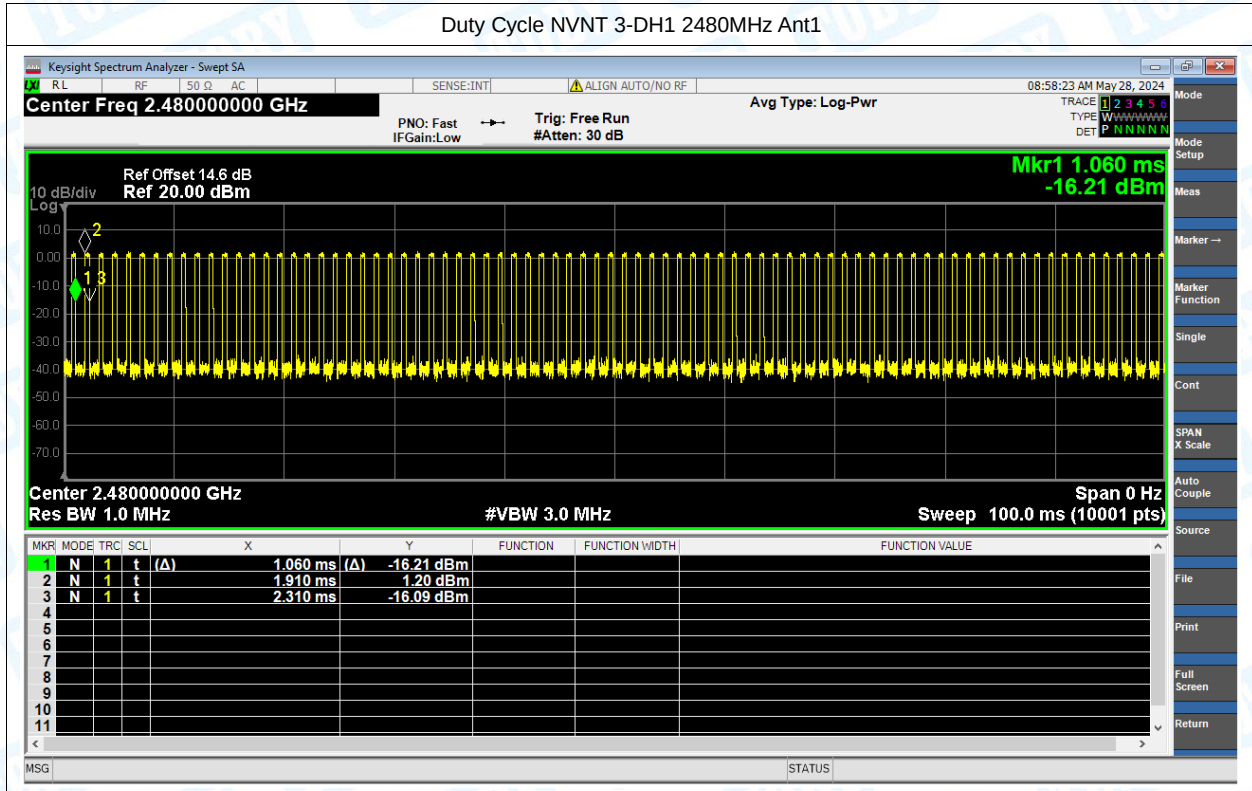


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



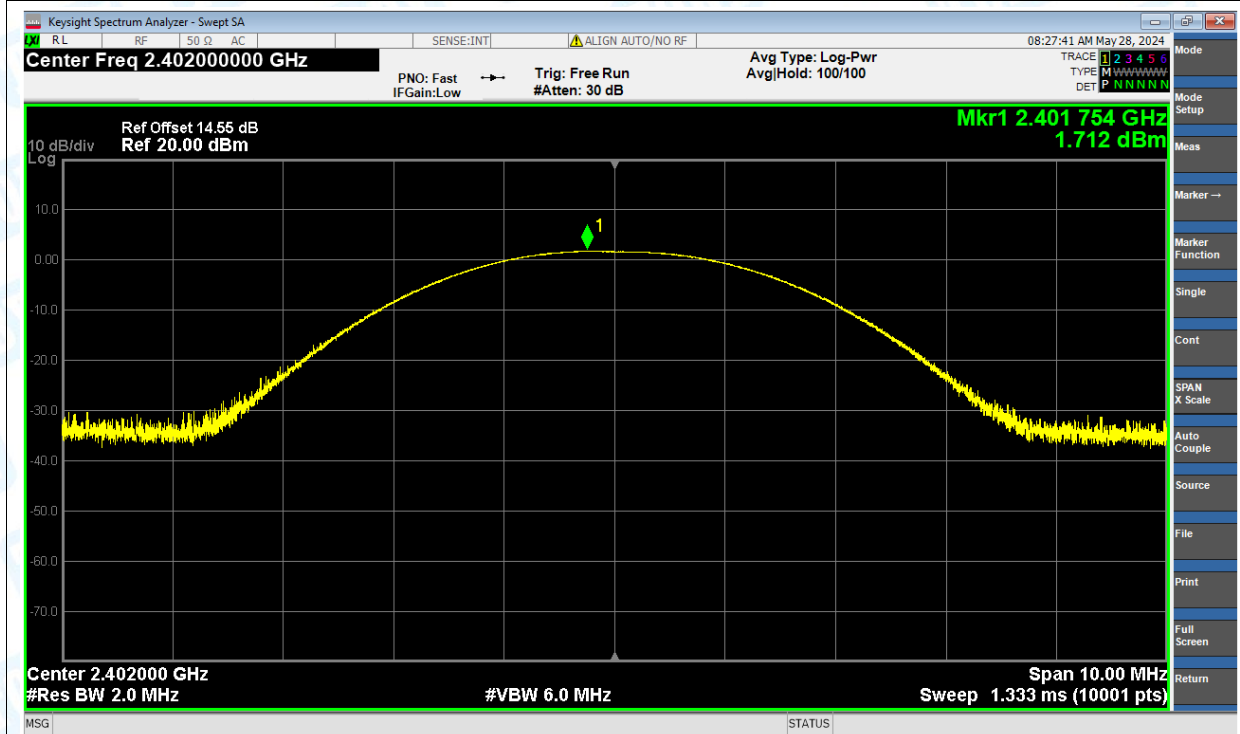


2. Maximum Conducted Output Power

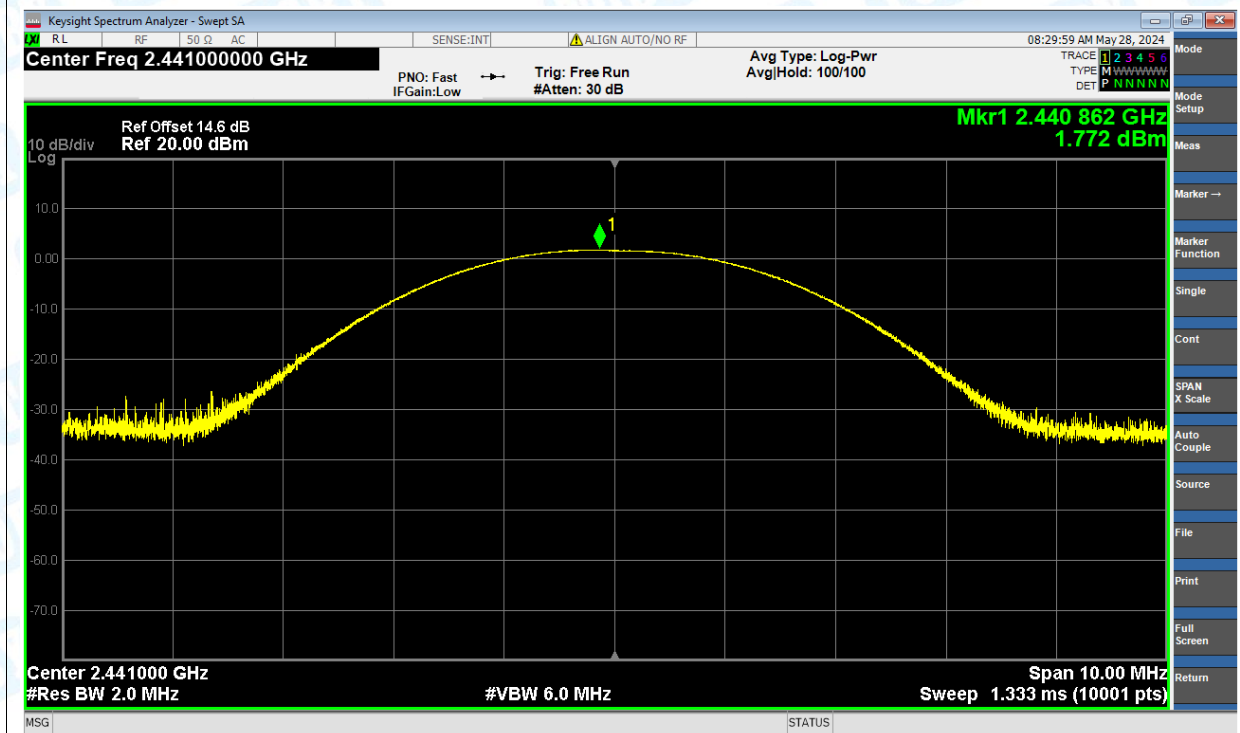
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.712	21	Pass
NVNT	1-DH1	2441	Ant1	1.772	21	Pass
NVNT	1-DH1	2480	Ant1	1.512	21	Pass
NVNT	2-DH1	2402	Ant1	2.203	21	Pass
NVNT	2-DH1	2441	Ant1	1.966	21	Pass
NVNT	2-DH1	2480	Ant1	1.629	21	Pass
NVNT	3-DH1	2402	Ant1	2.895	21	Pass
NVNT	3-DH1	2441	Ant1	2.777	21	Pass
NVNT	3-DH1	2480	Ant1	2.549	21	Pass

Test Graphs

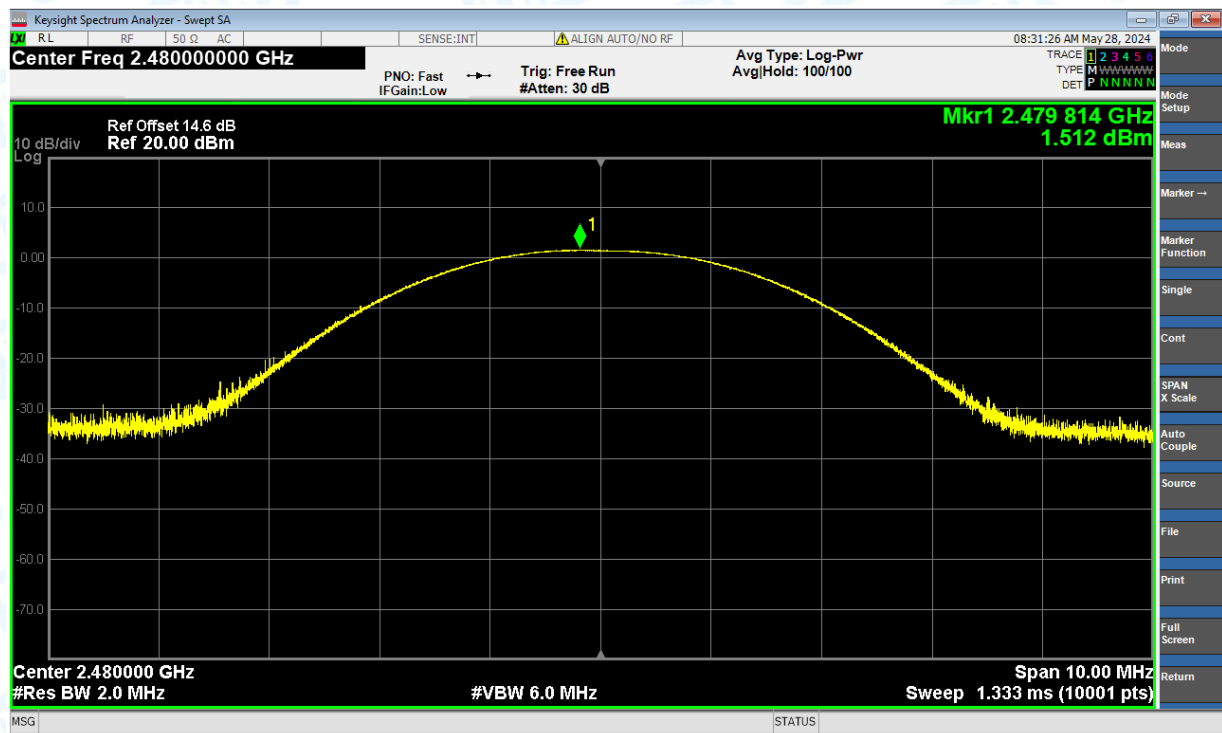
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



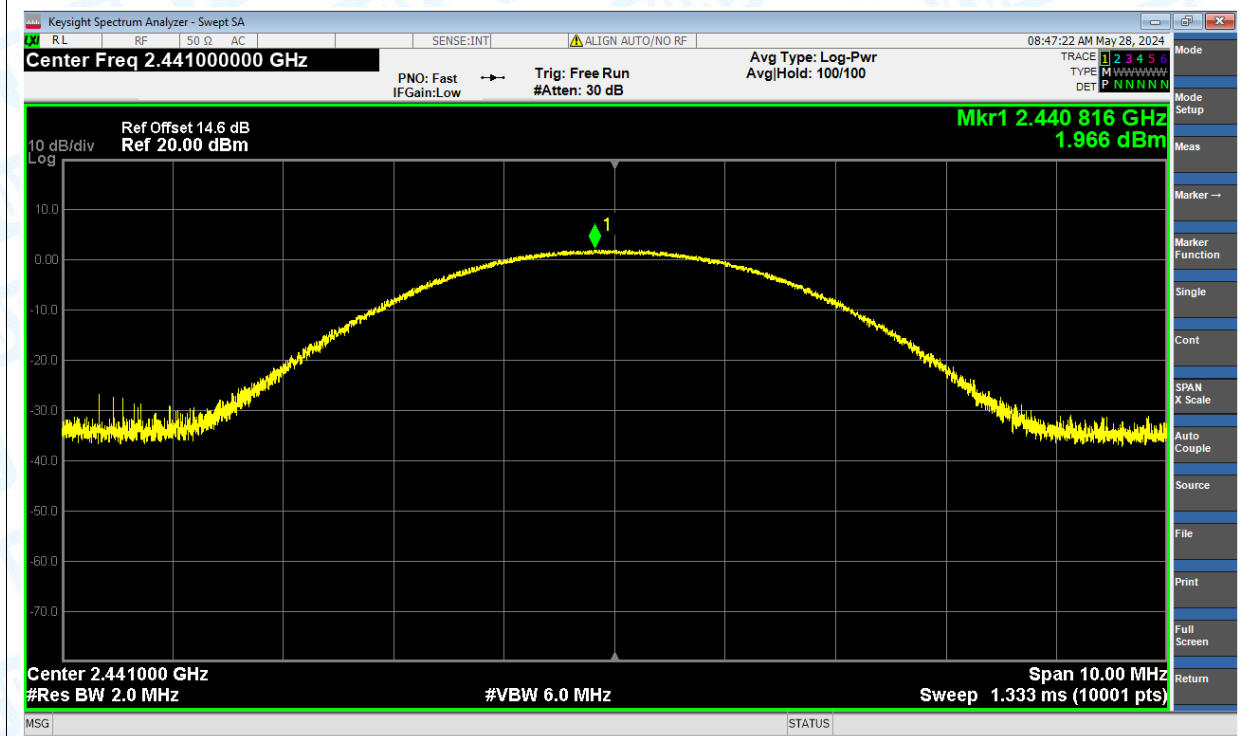
Power NVNT 1-DH1 2480MHz Ant1



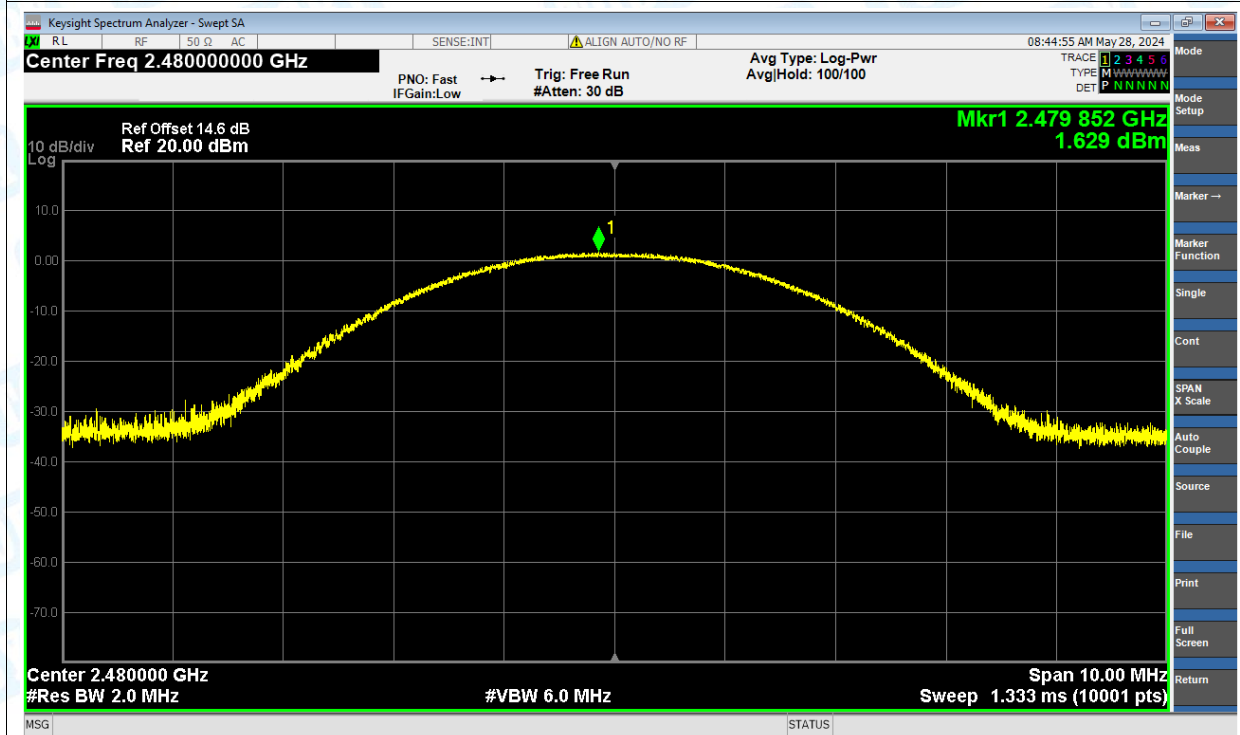
Power NVNT 2-DH1 2402MHz Ant1



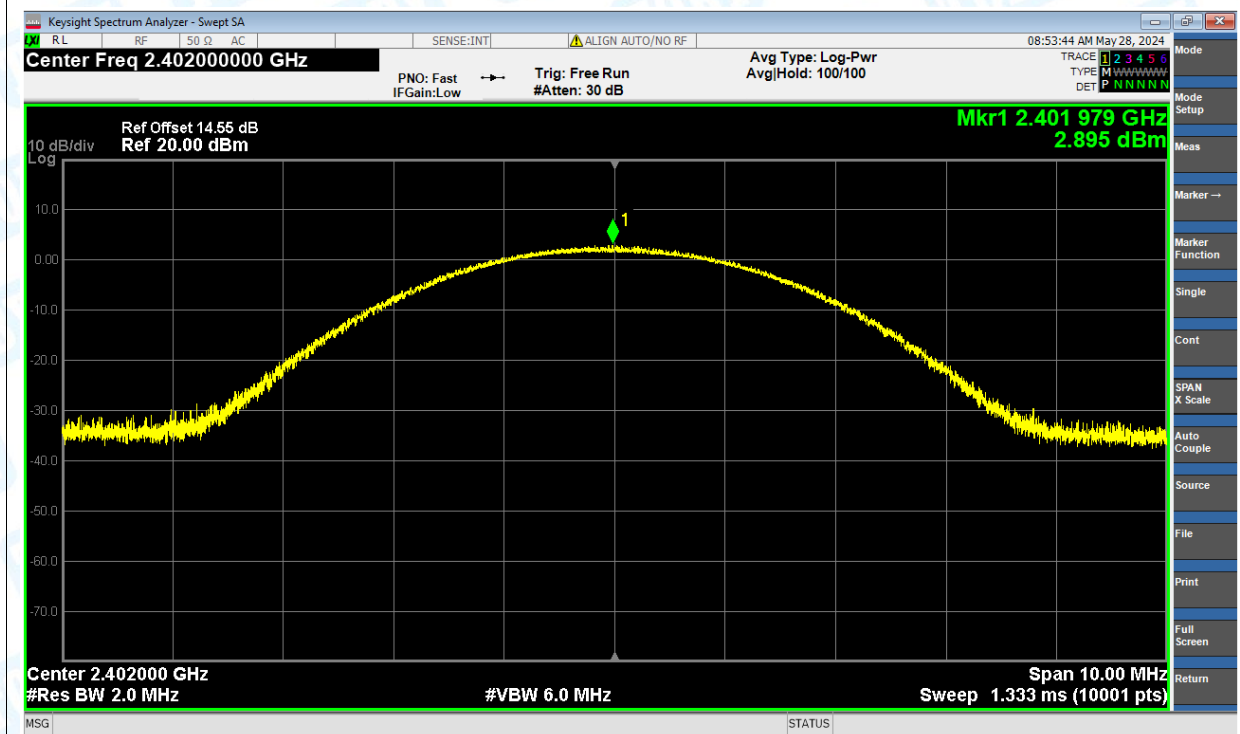
Power NVNT 2-DH1 2441MHz Ant1



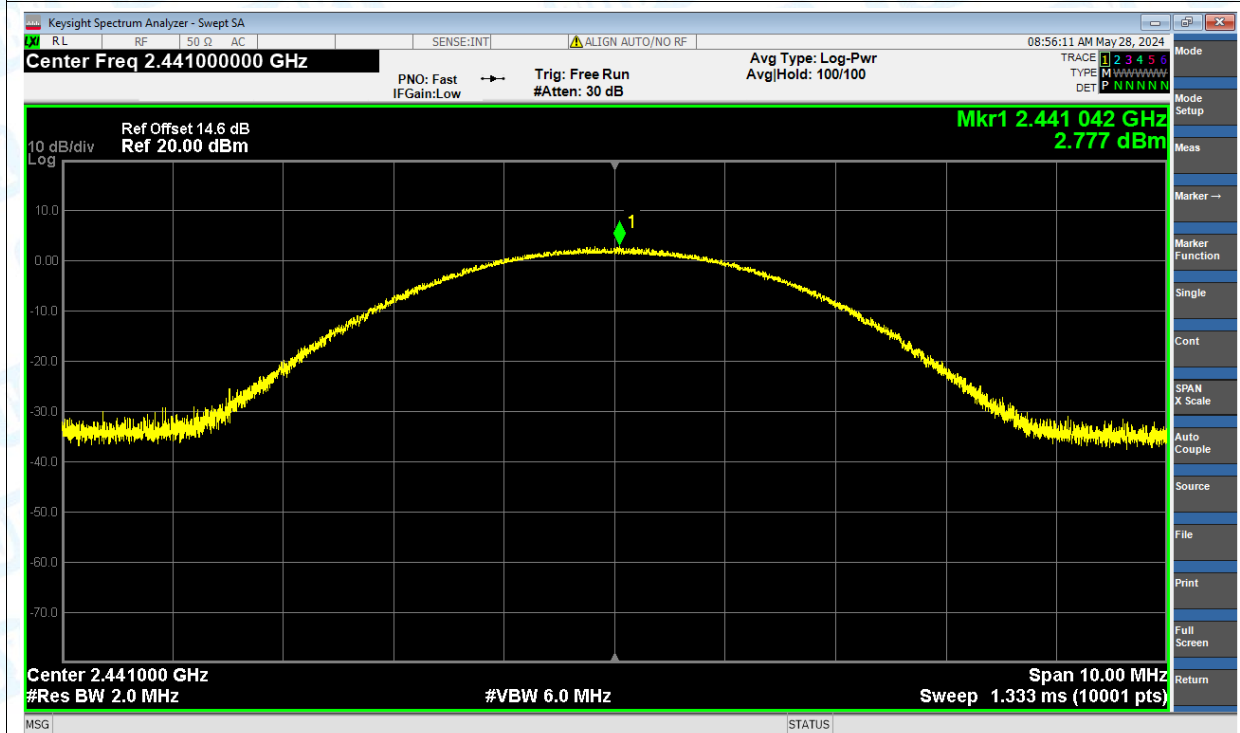
Power NVNT 2-DH1 2480MHz Ant1

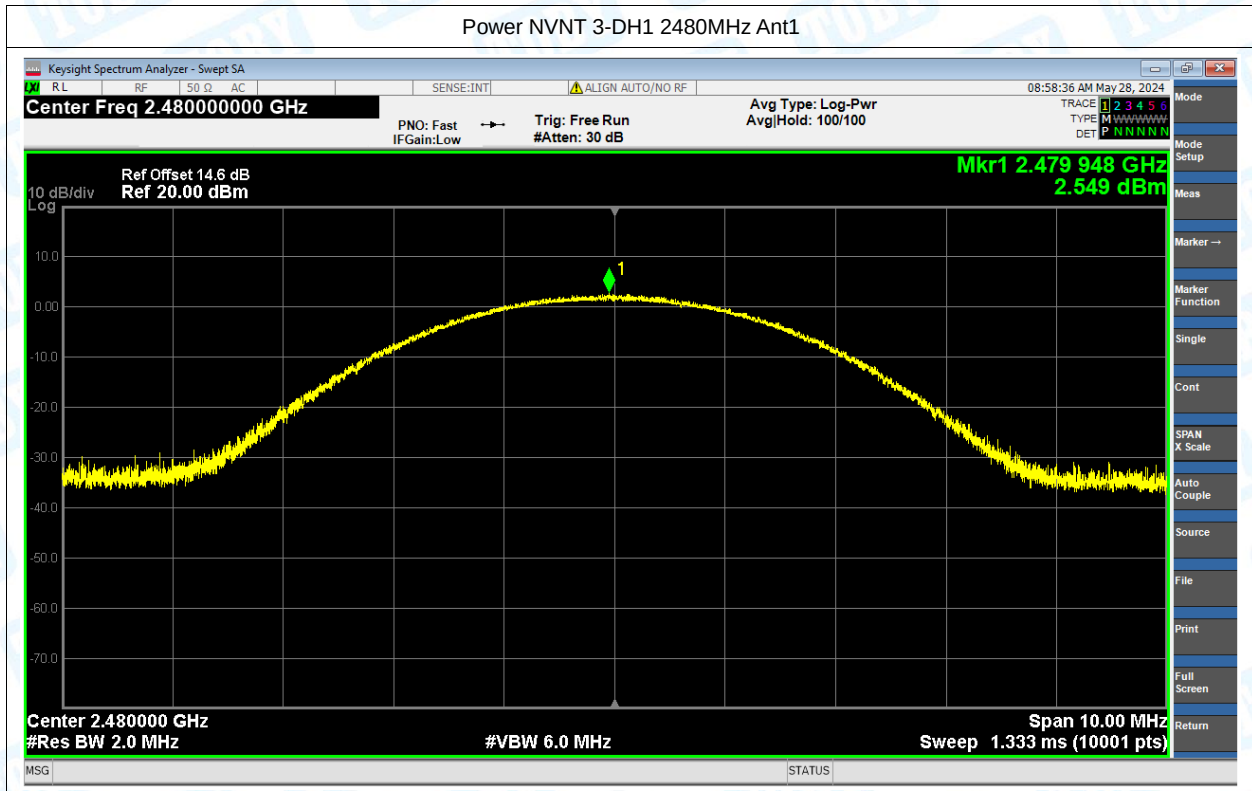


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



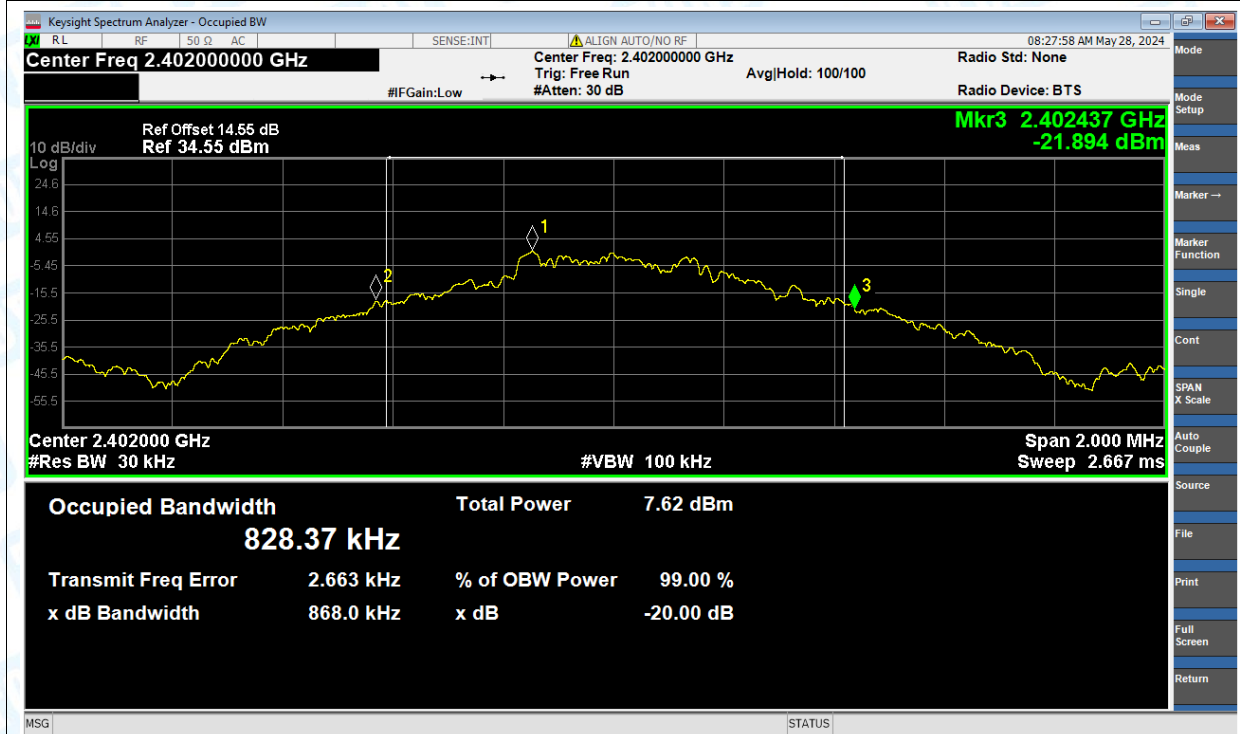


3. -20dB Bandwidth

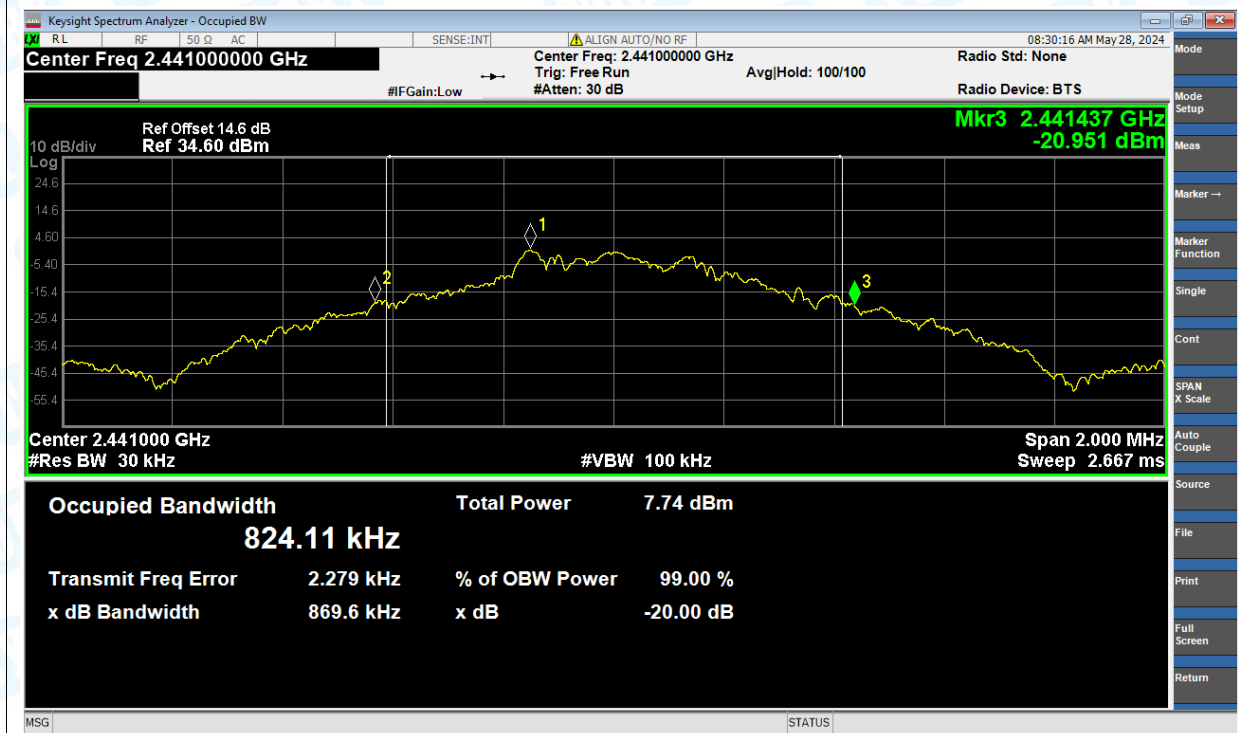
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.87	0	Pass
NVNT	1-DH1	2480	Ant1	0.88	0	Pass
NVNT	2-DH1	2402	Ant1	1.23	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.2	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.24	0	Pass
NVNT	3-DH1	2480	Ant1	1.24	0	Pass

Test Graphs

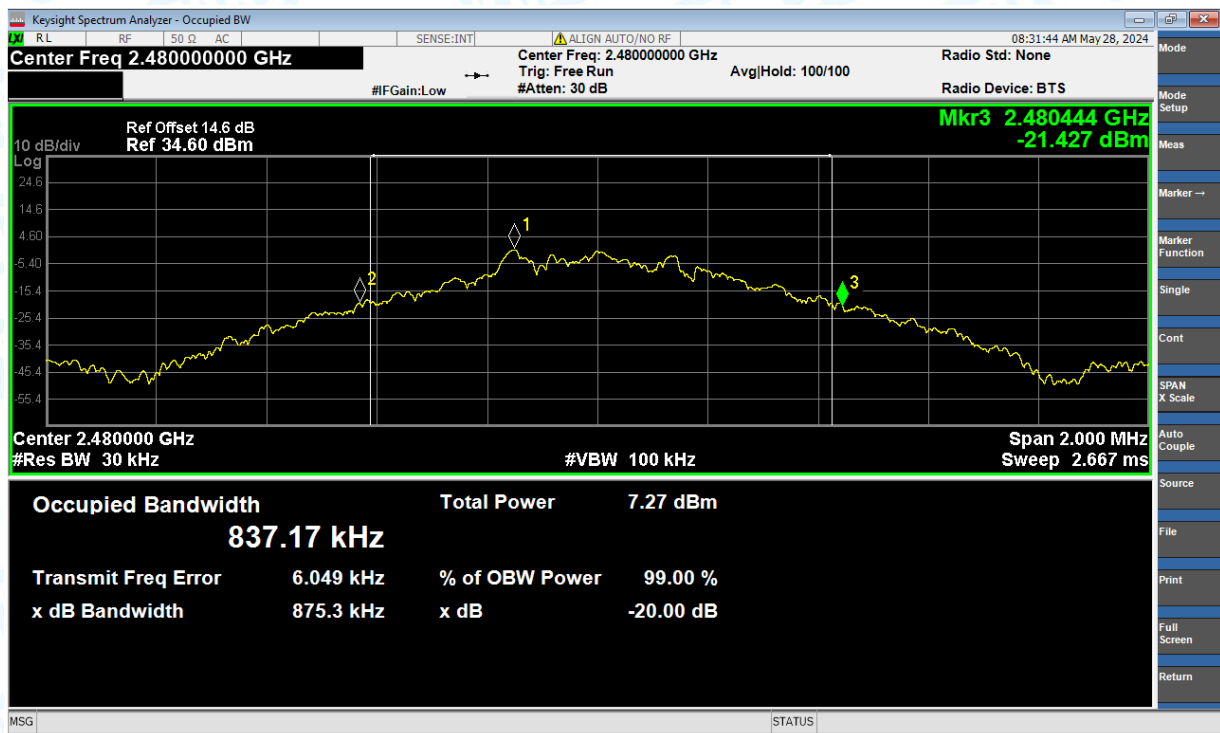
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



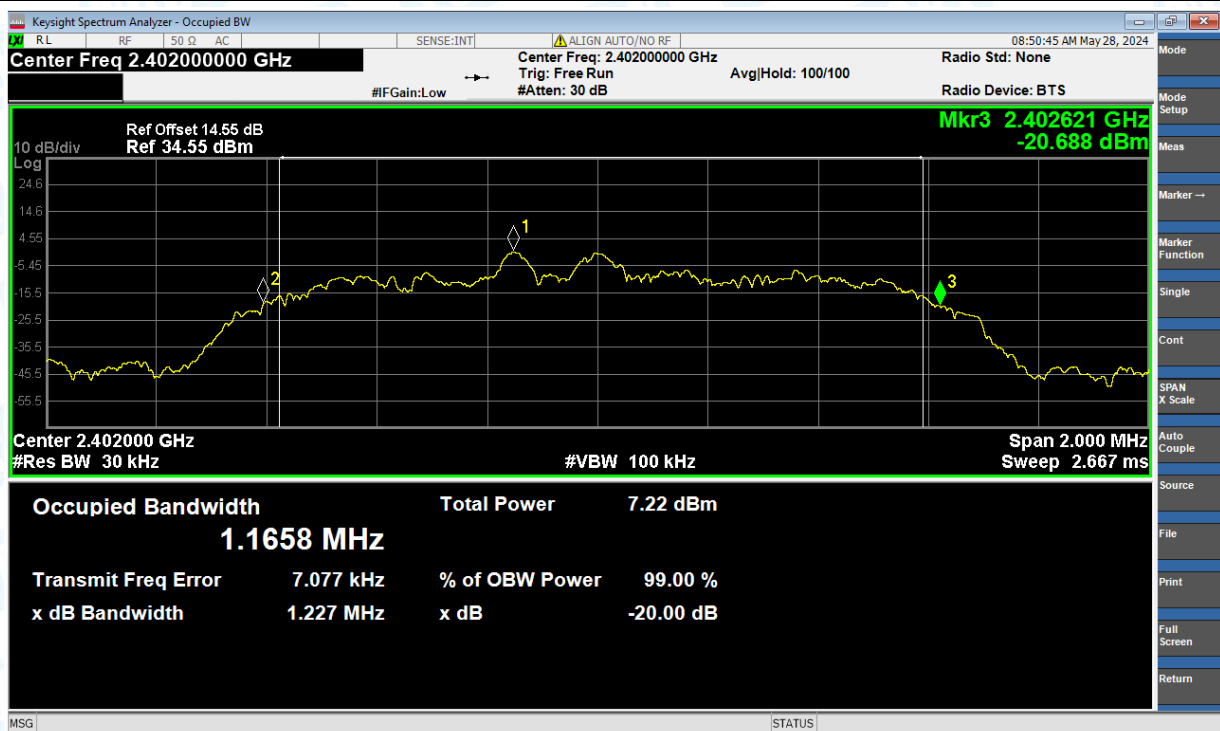
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



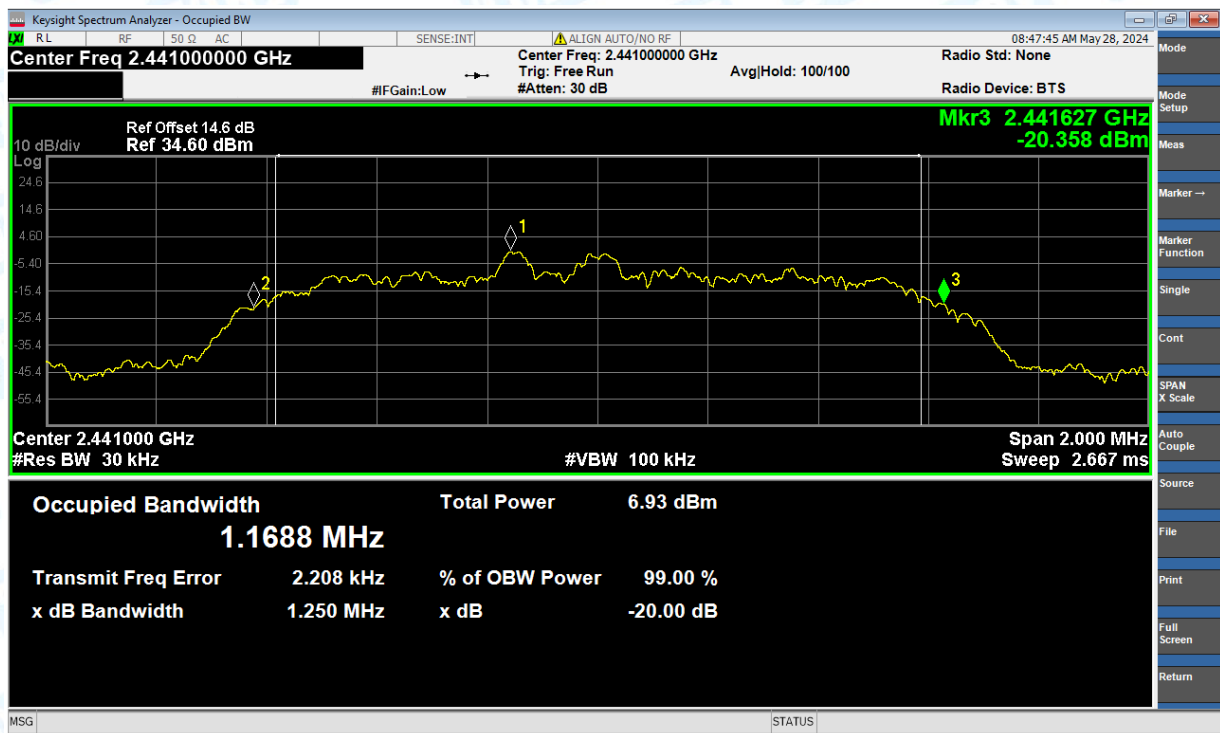
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



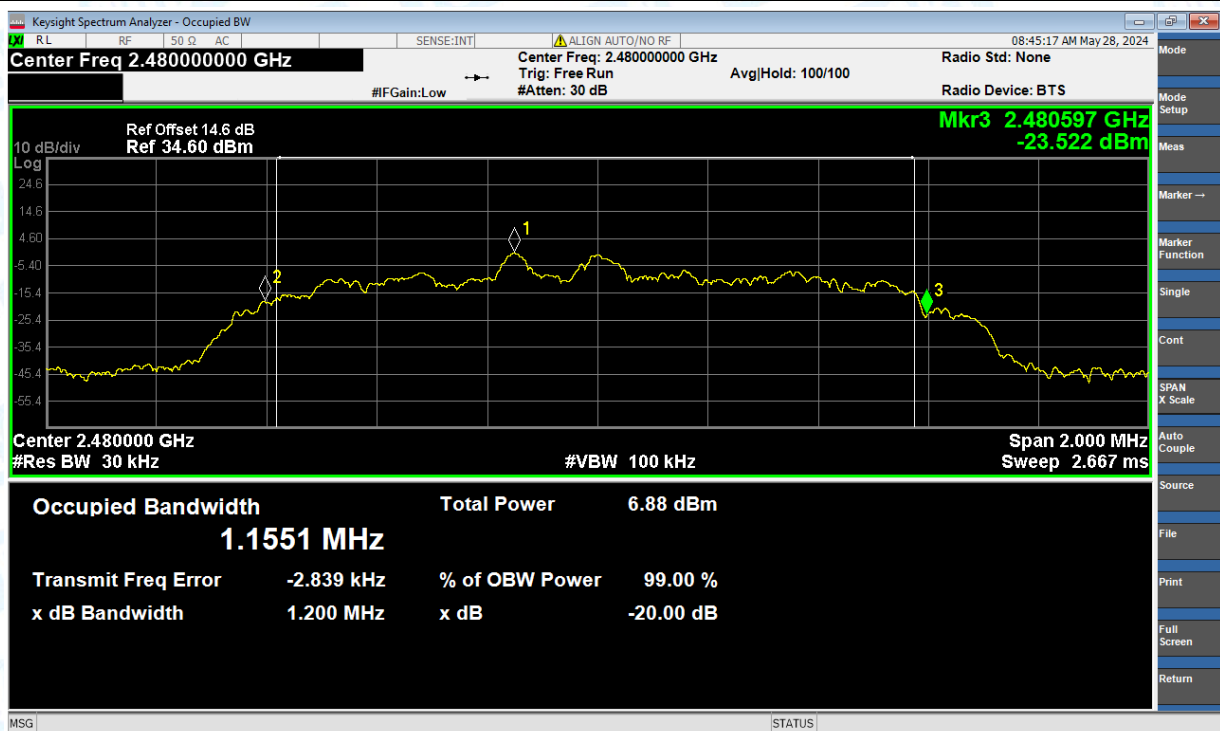
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



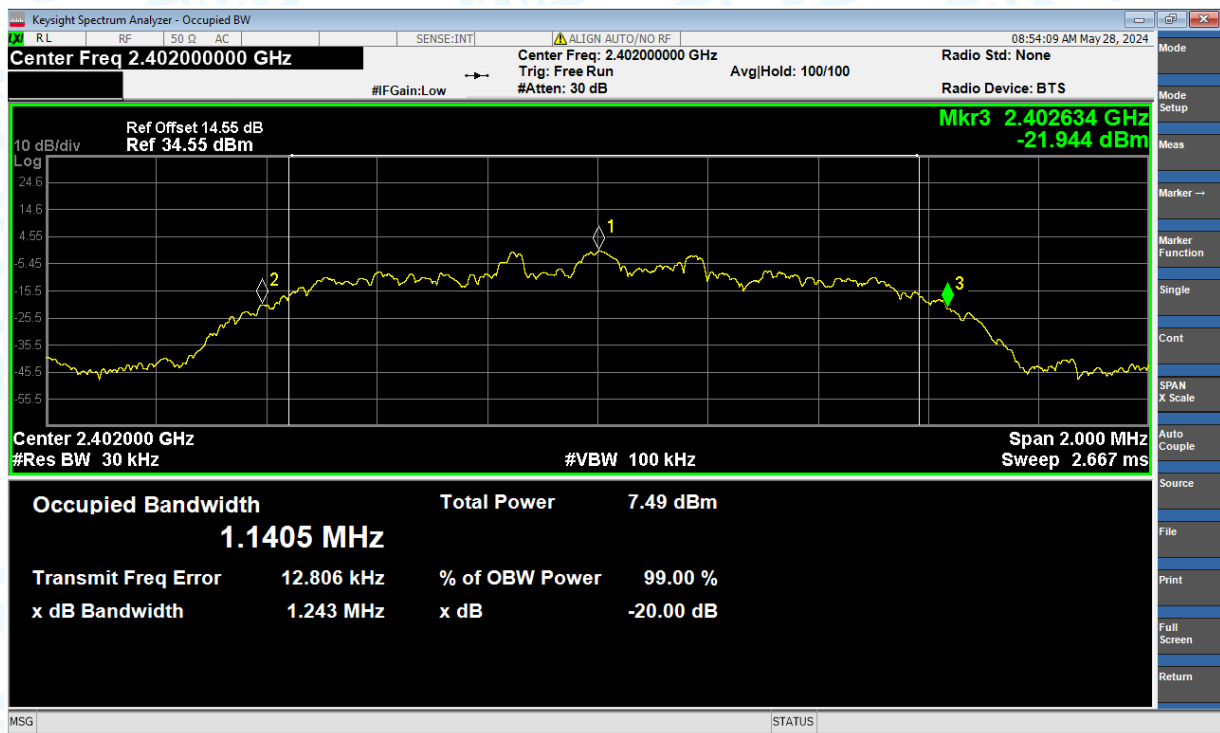
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



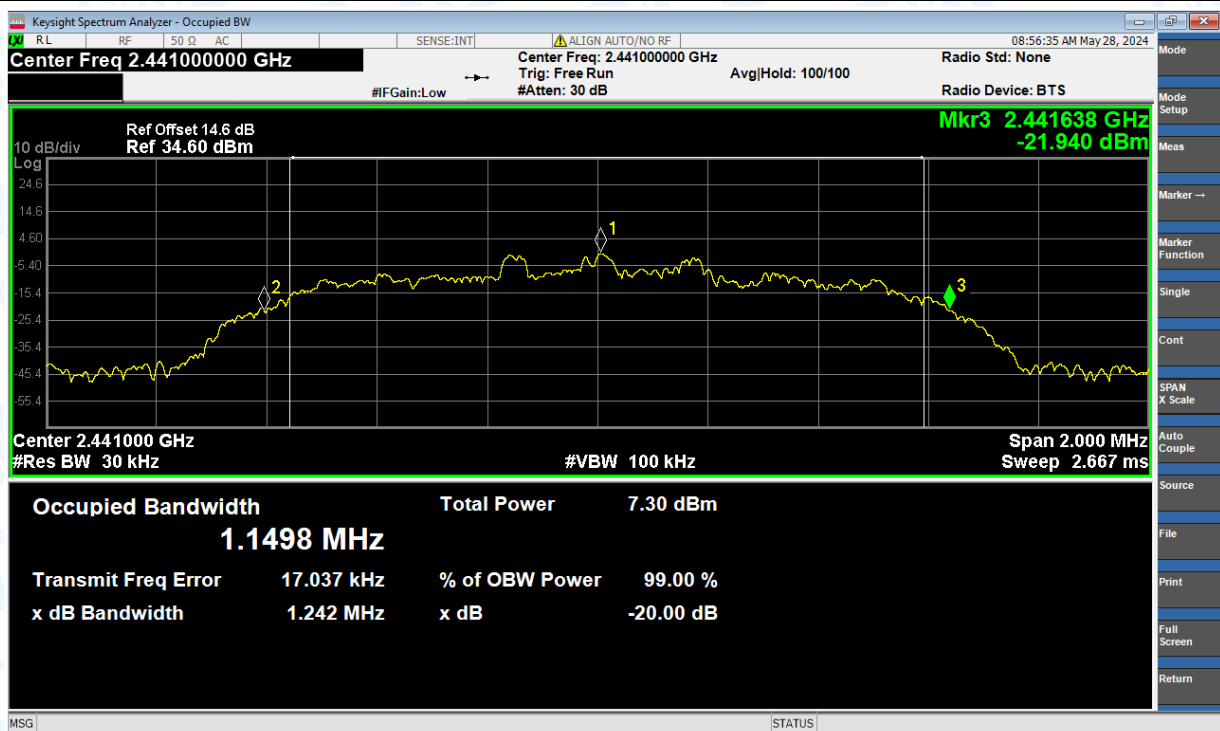
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

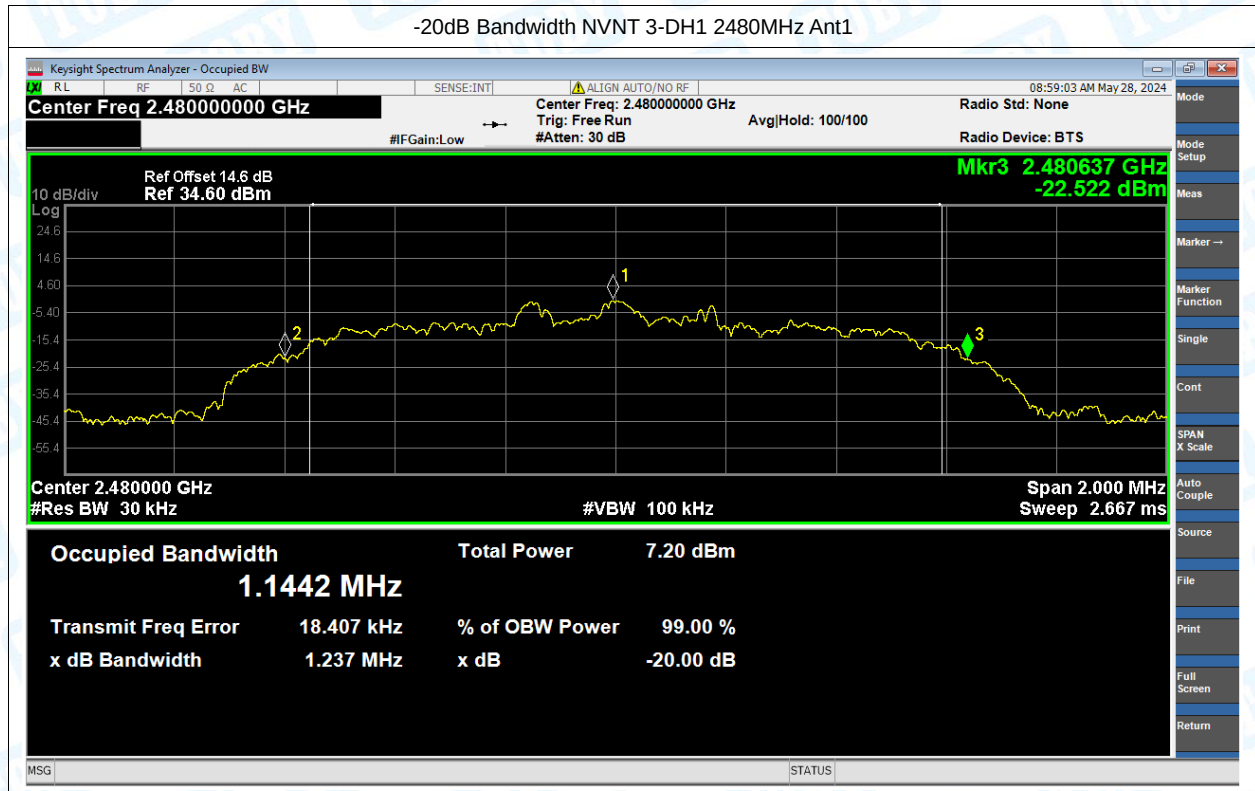


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



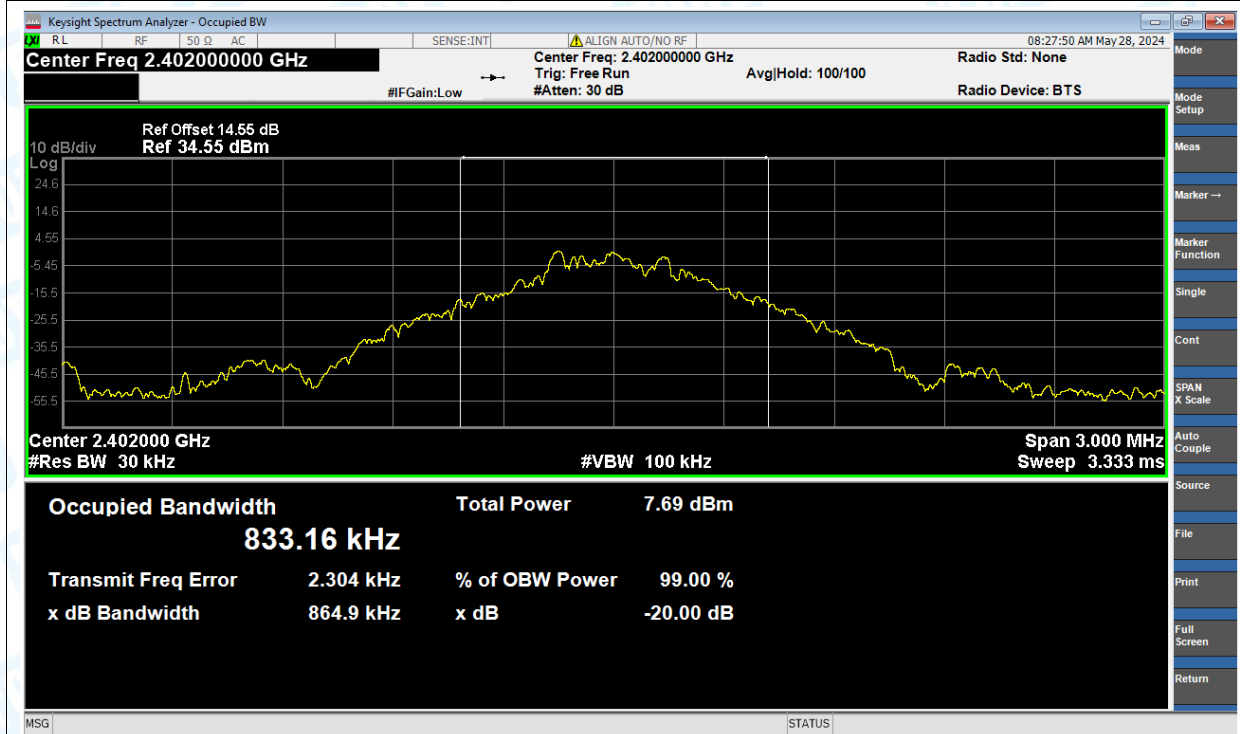


4. Occupied Channel Bandwidth

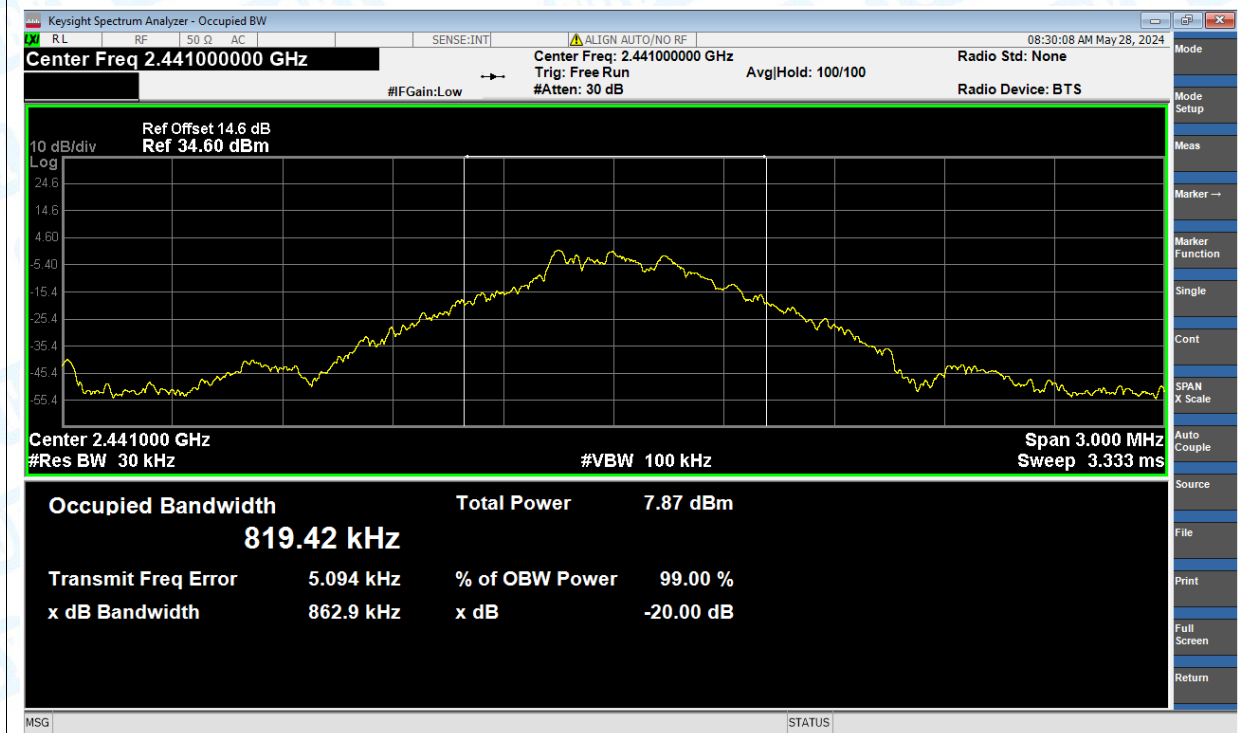
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.833
NVNT	1-DH1	2441	Ant1	0.819
NVNT	1-DH1	2480	Ant1	0.823
NVNT	2-DH1	2402	Ant1	1.133
NVNT	2-DH1	2441	Ant1	1.149
NVNT	2-DH1	2480	Ant1	1.175
NVNT	3-DH1	2402	Ant1	1.155
NVNT	3-DH1	2441	Ant1	1.15
NVNT	3-DH1	2480	Ant1	1.151

Test Graphs

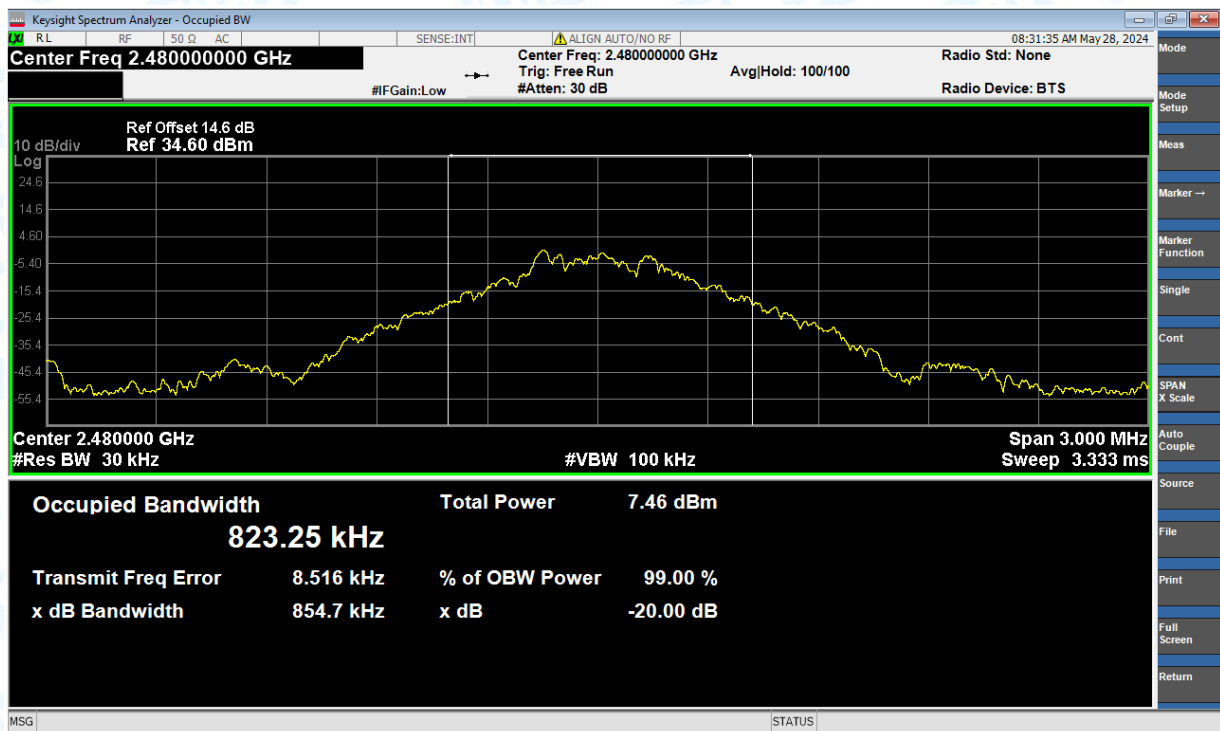
OBW NVNT 1-DH1 2402MHz Ant1



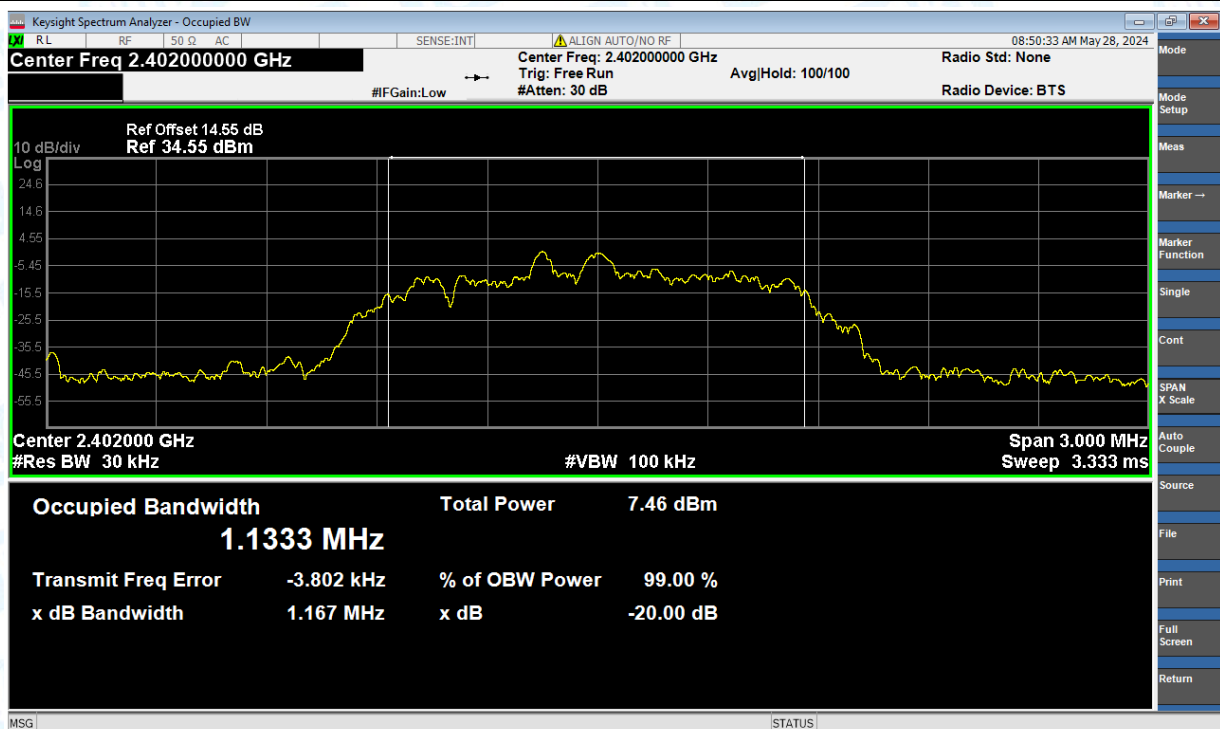
OBW NVNT 1-DH1 2441MHz Ant1



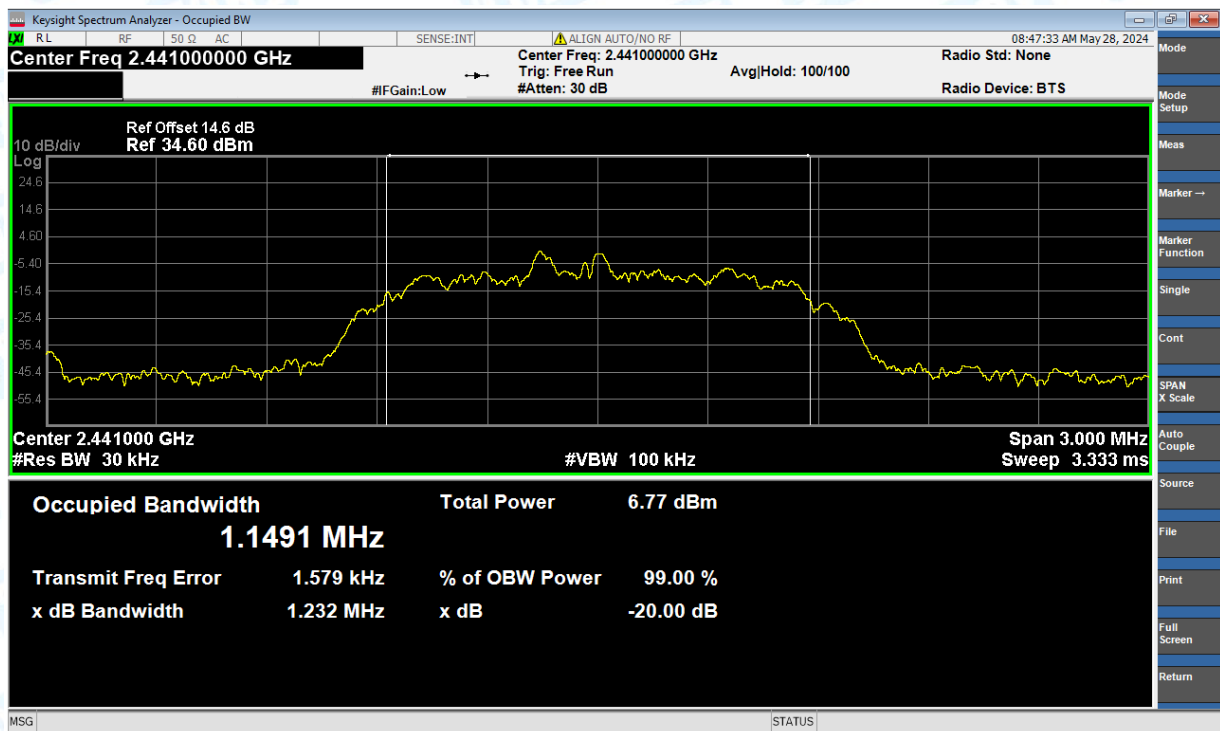
OBW NVNT 1-DH1 2480MHz Ant1



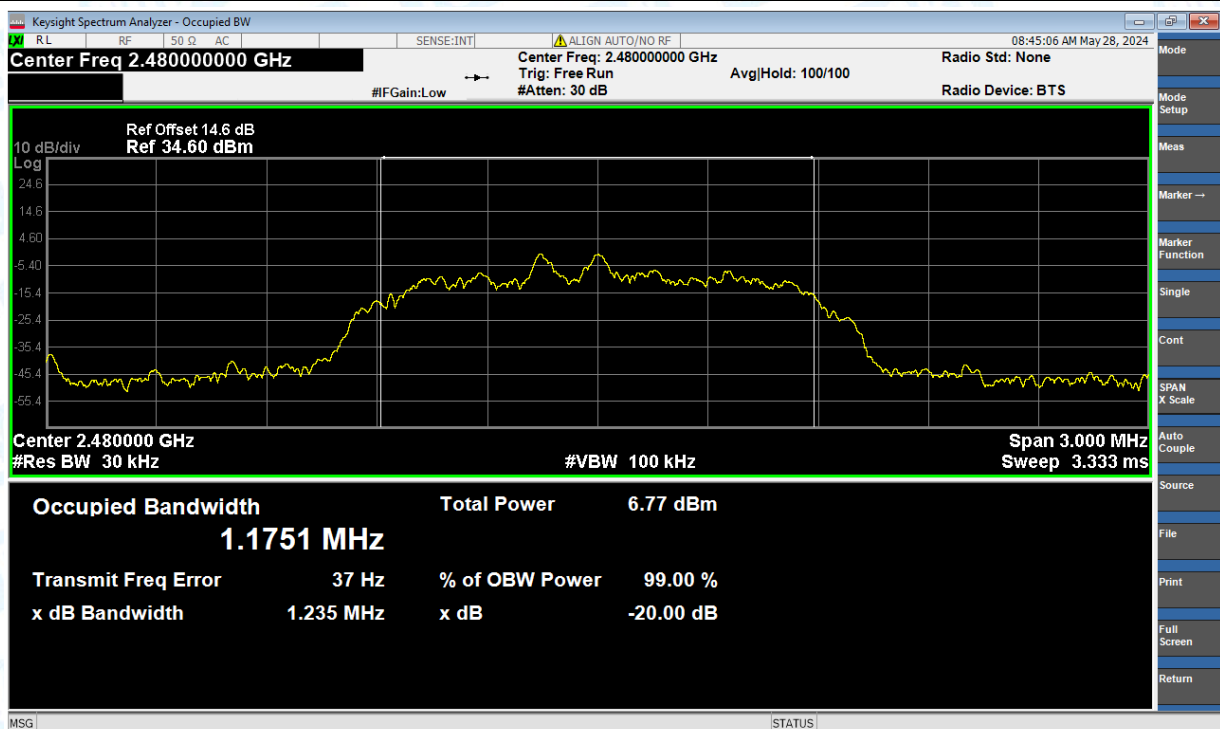
OBW NVNT 2-DH1 2402MHz Ant1



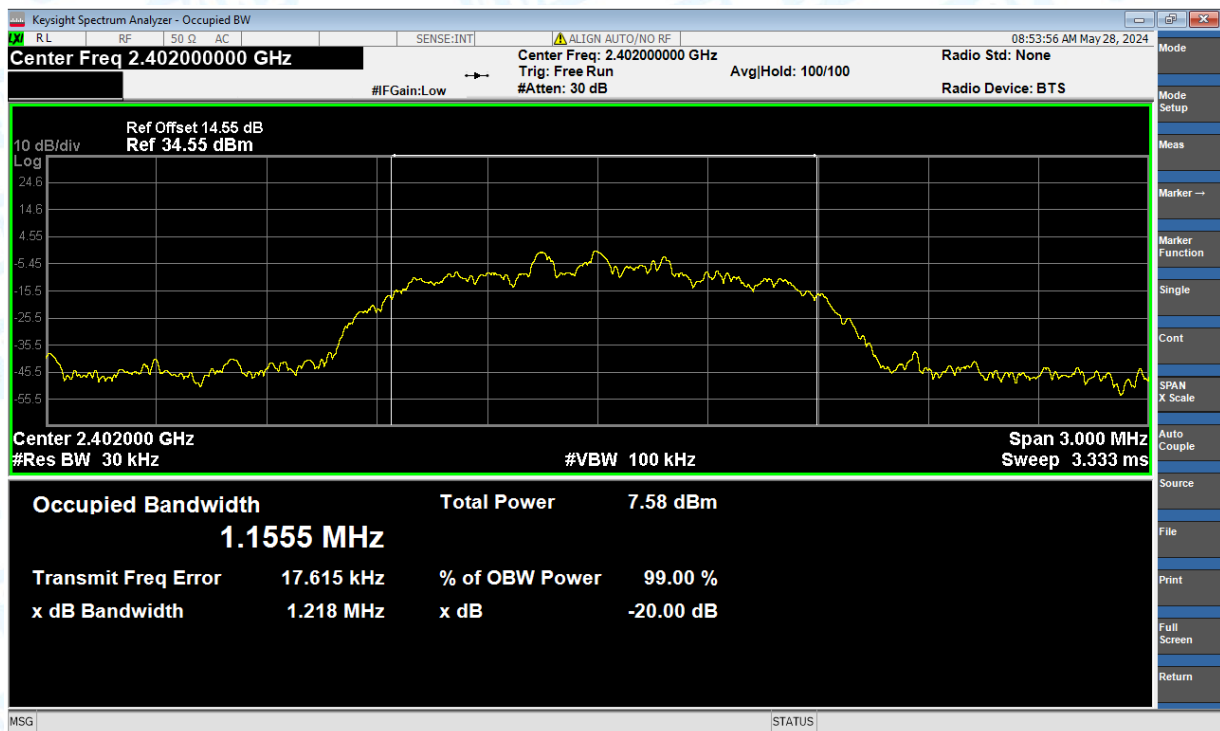
OBW NVNT 2-DH1 2441MHz Ant1



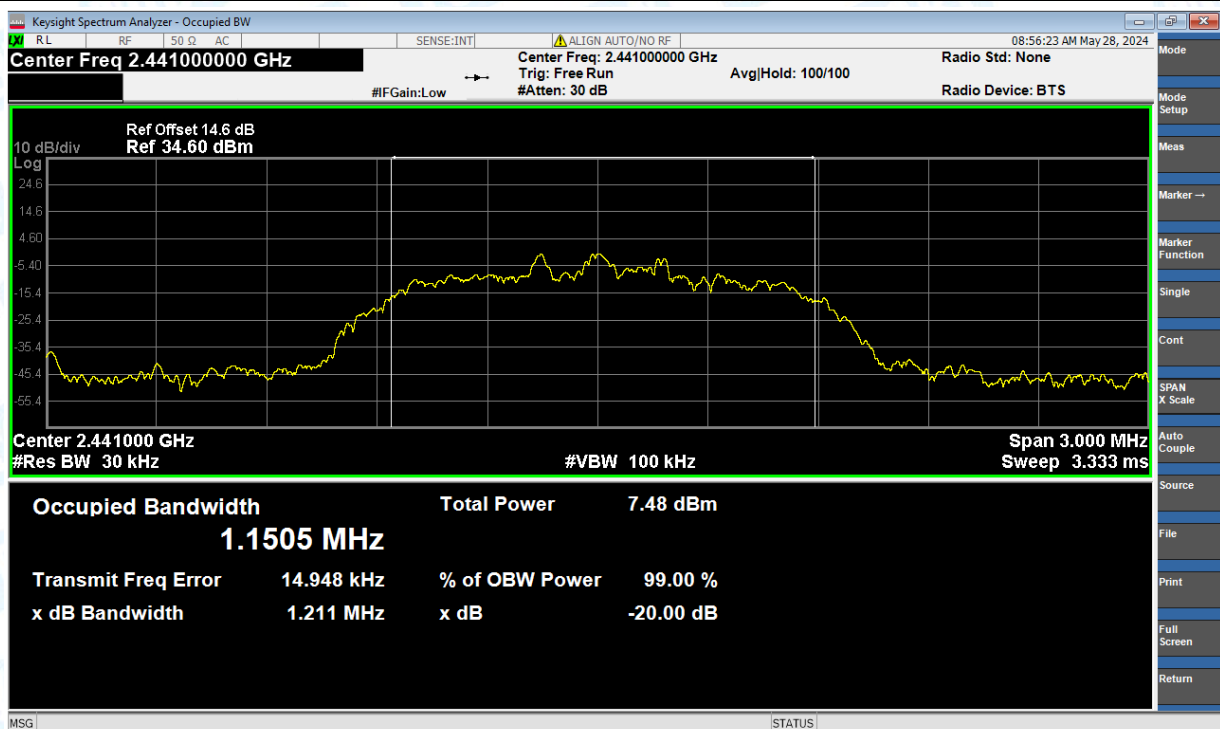
OBW NVNT 2-DH1 2480MHz Ant1

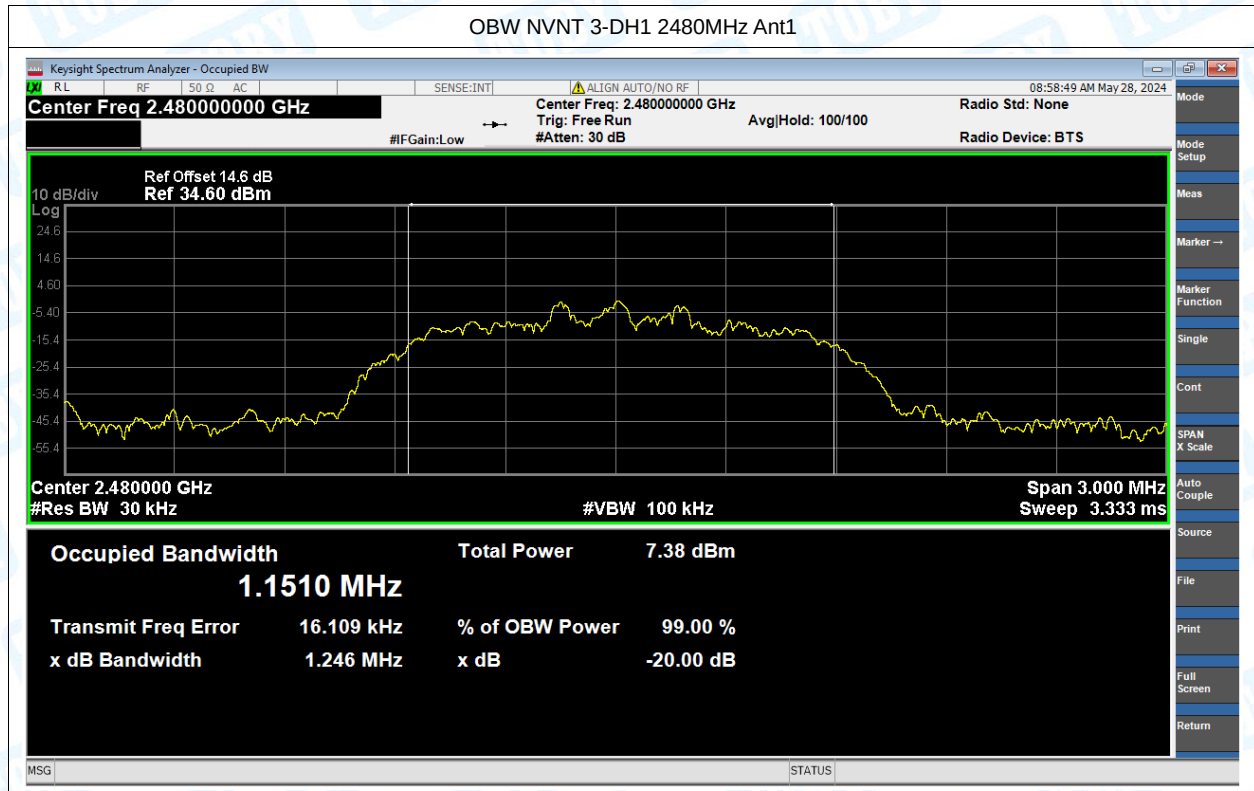


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



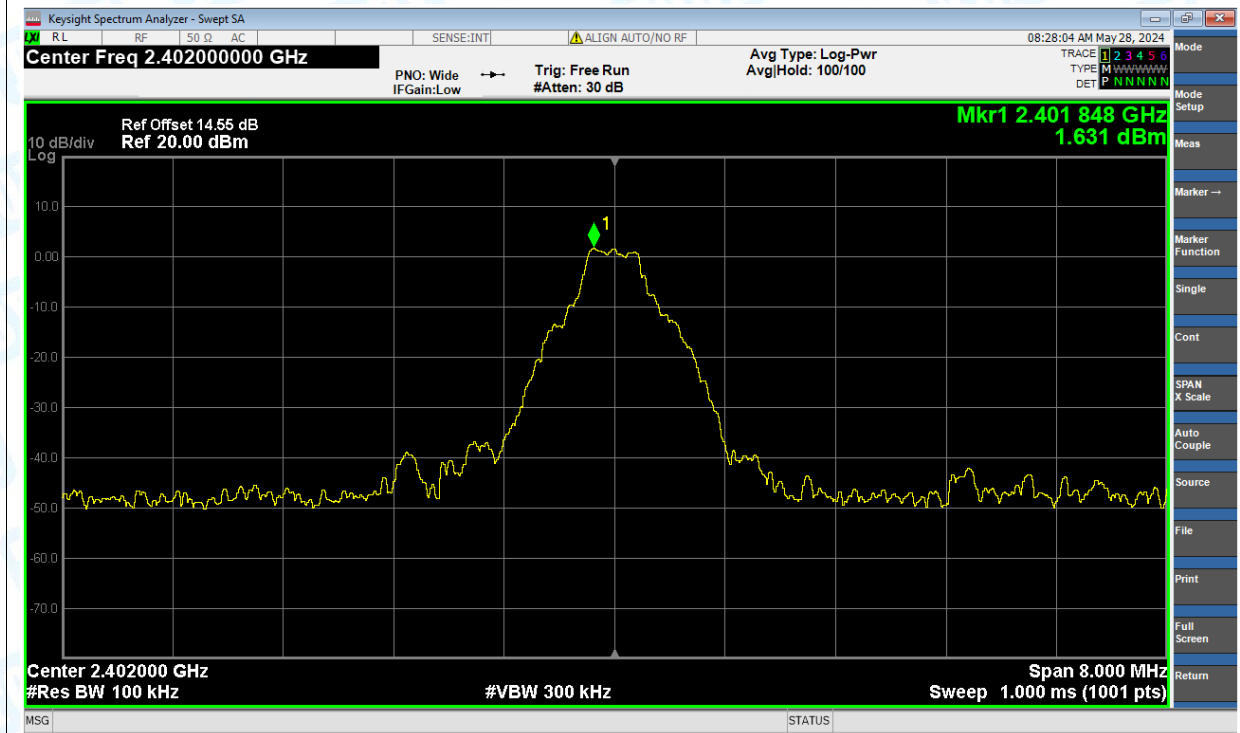


5. Band Edge

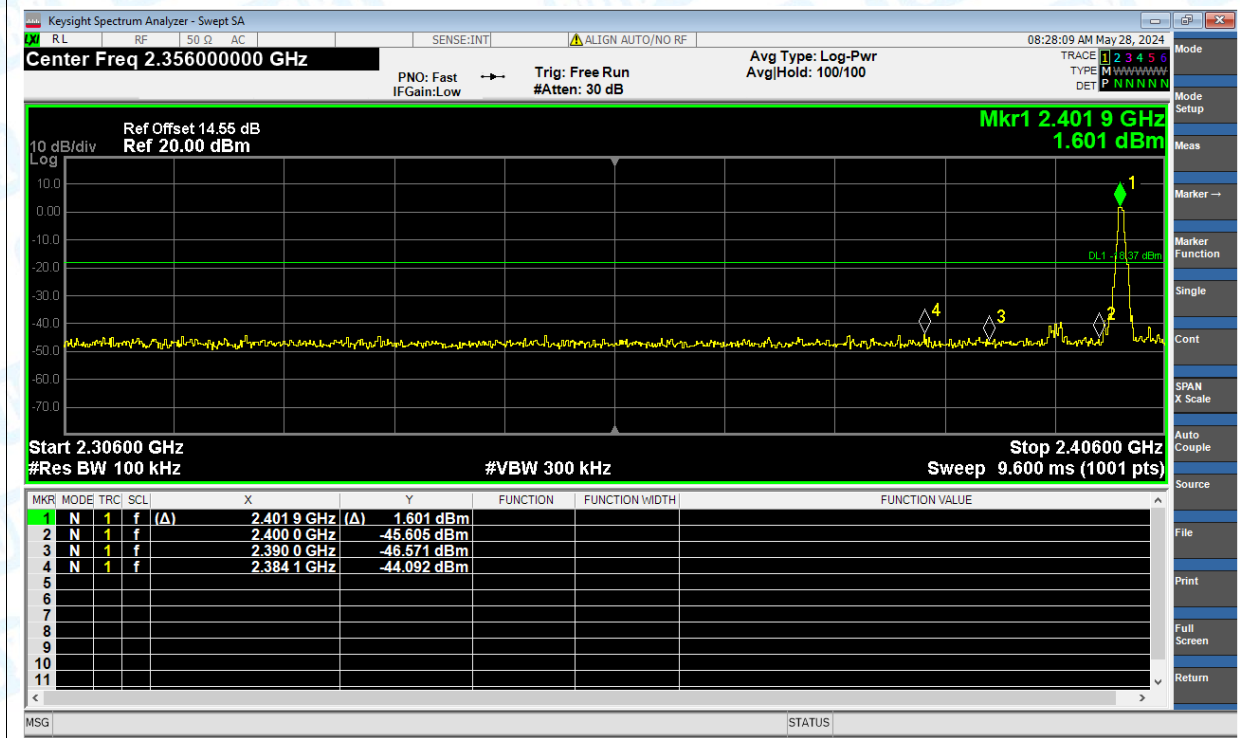
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-45.72	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-45.07	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-45.34	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-45.05	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-45.57	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-45.59	-20	Pass

Test Graphs

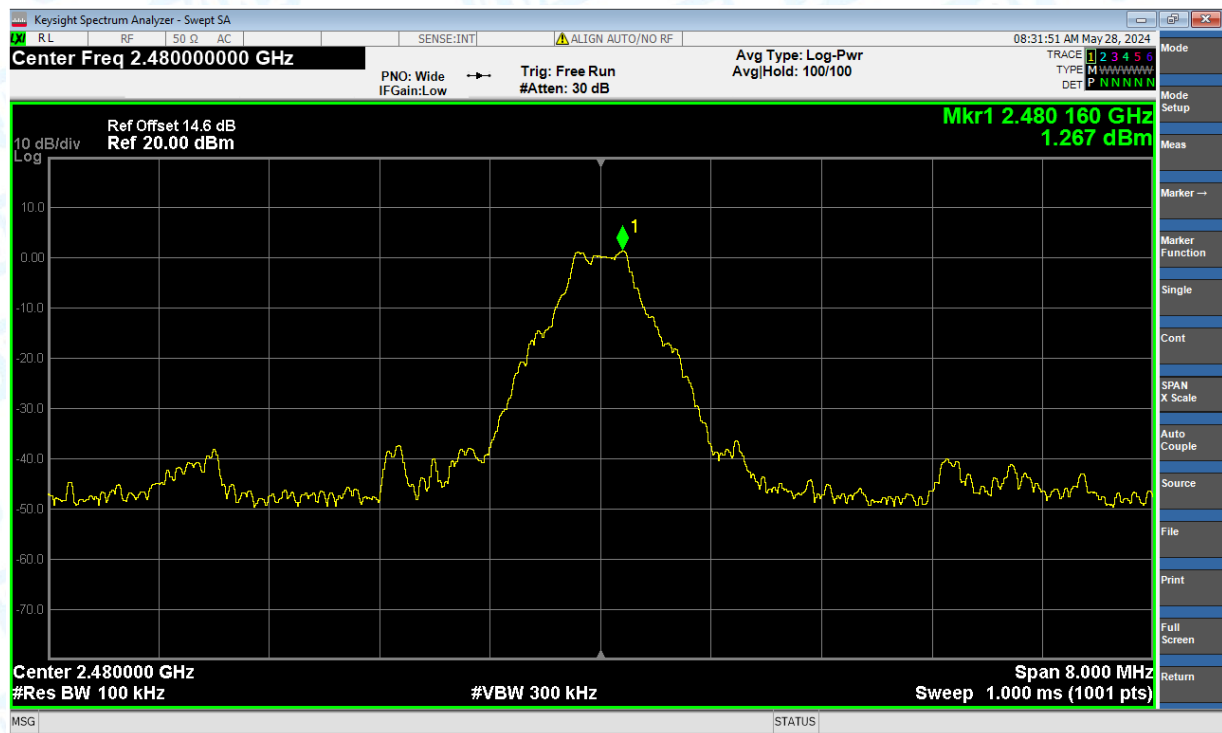
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



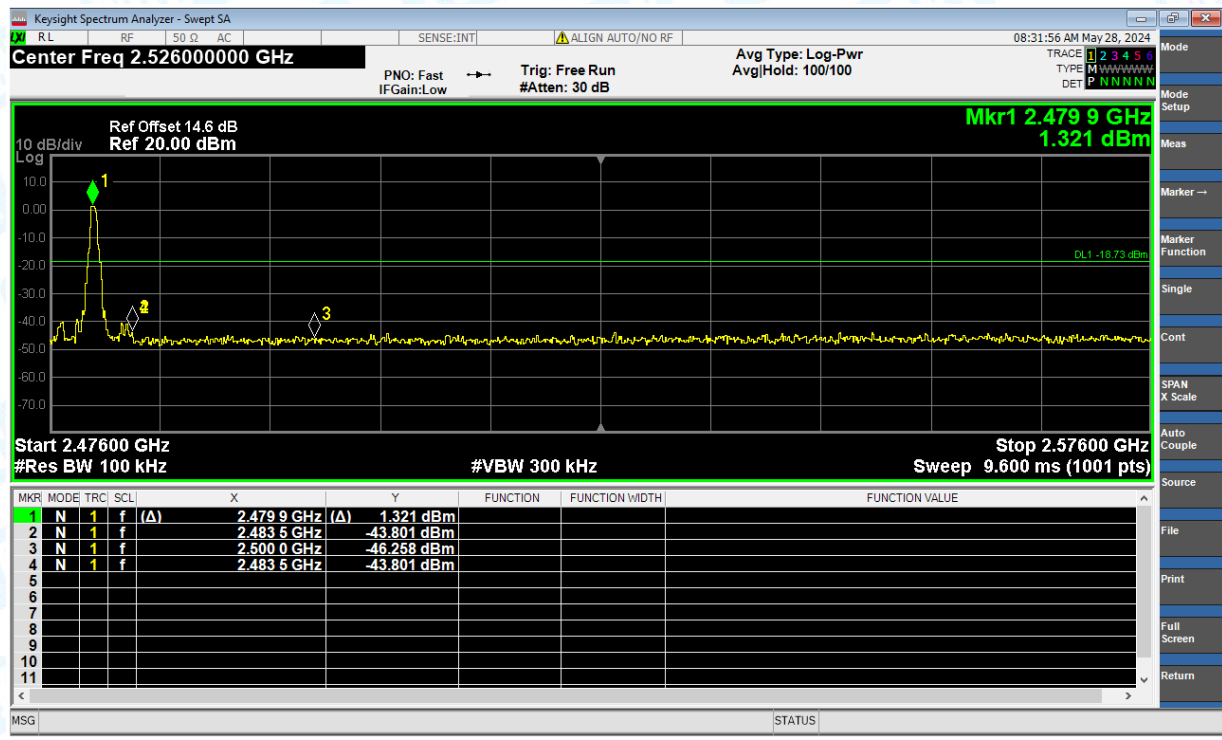
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



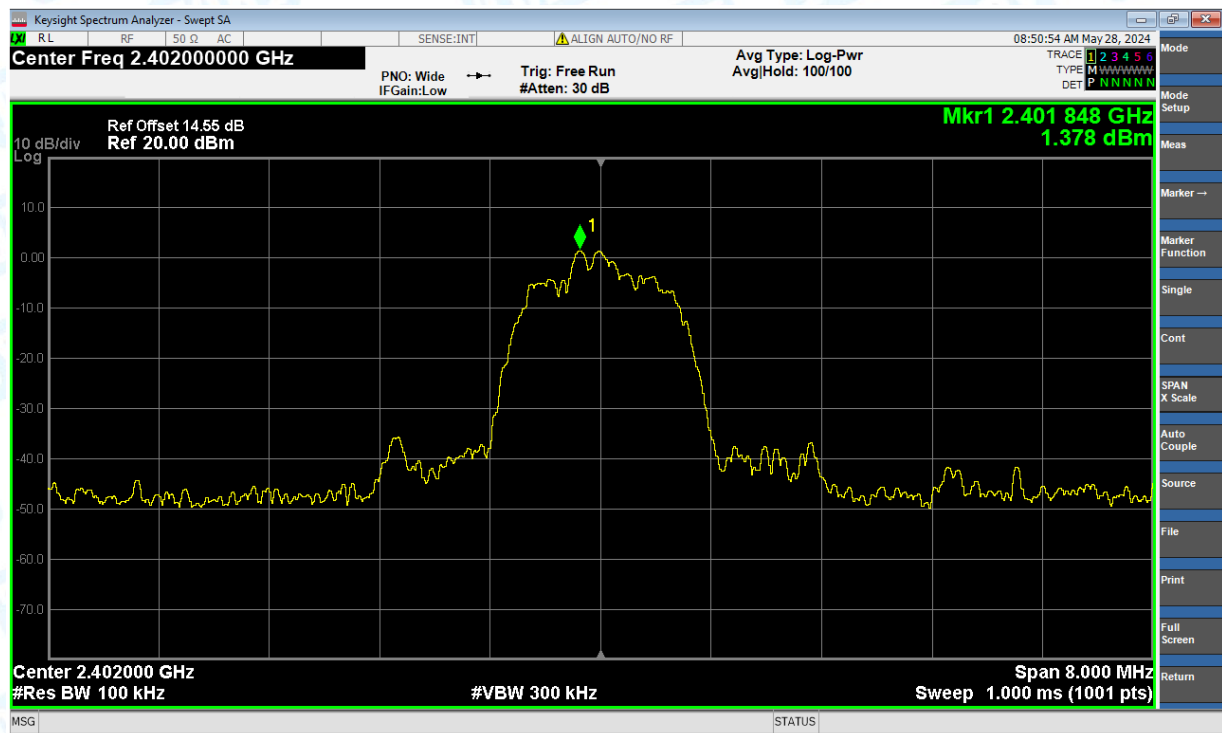
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



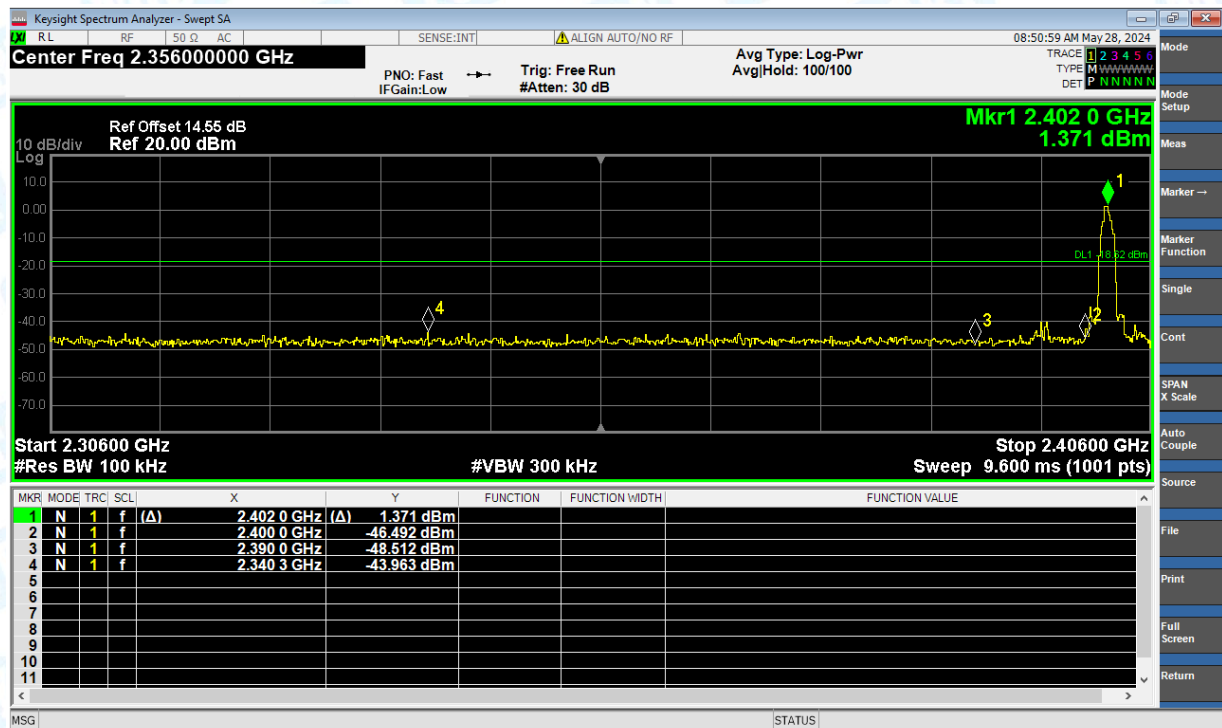
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



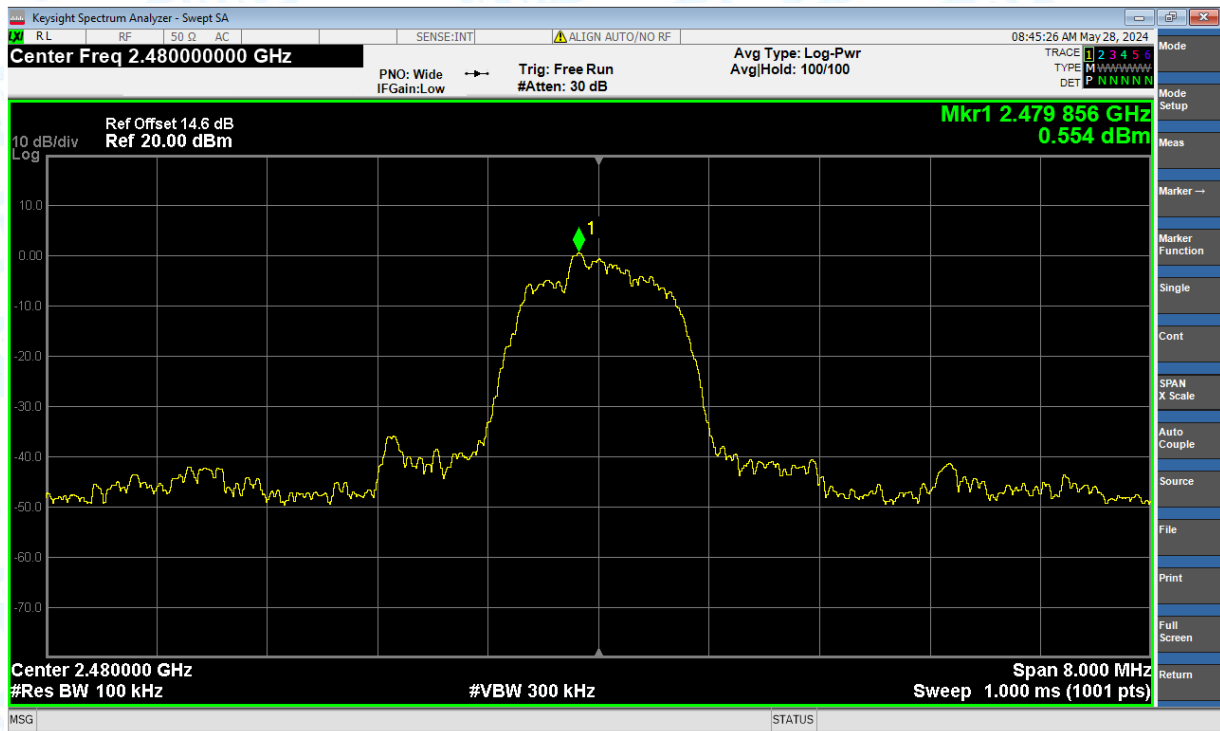
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



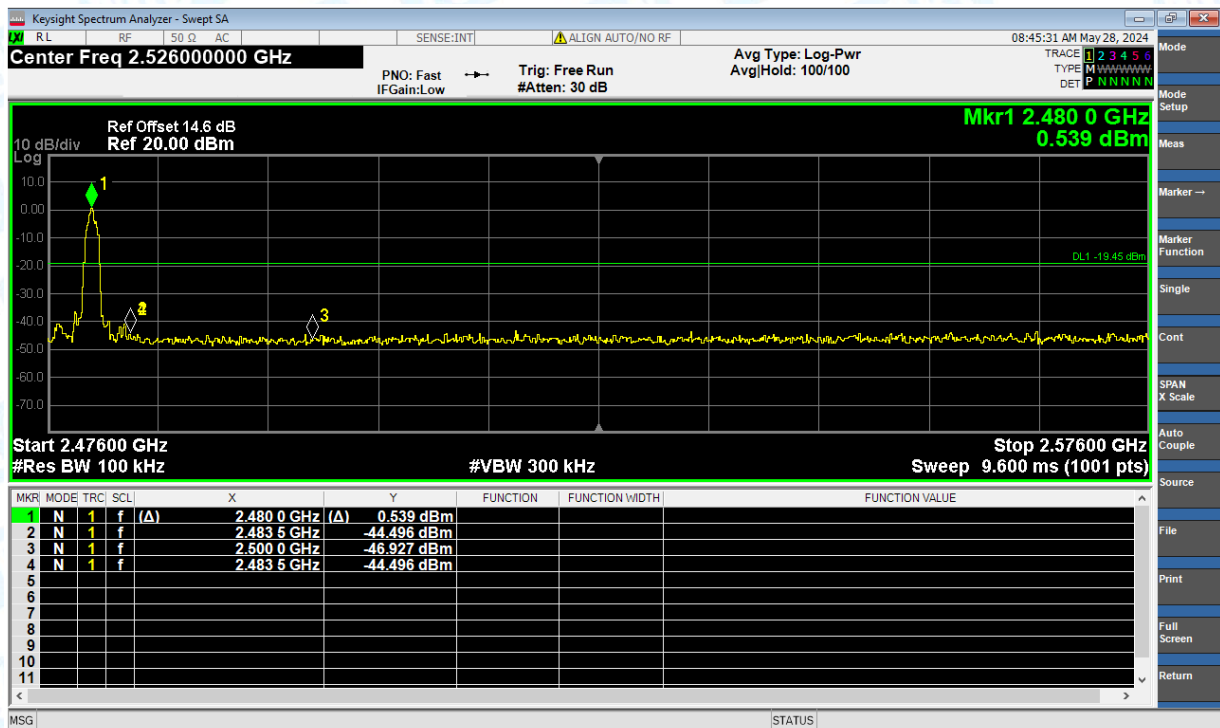
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



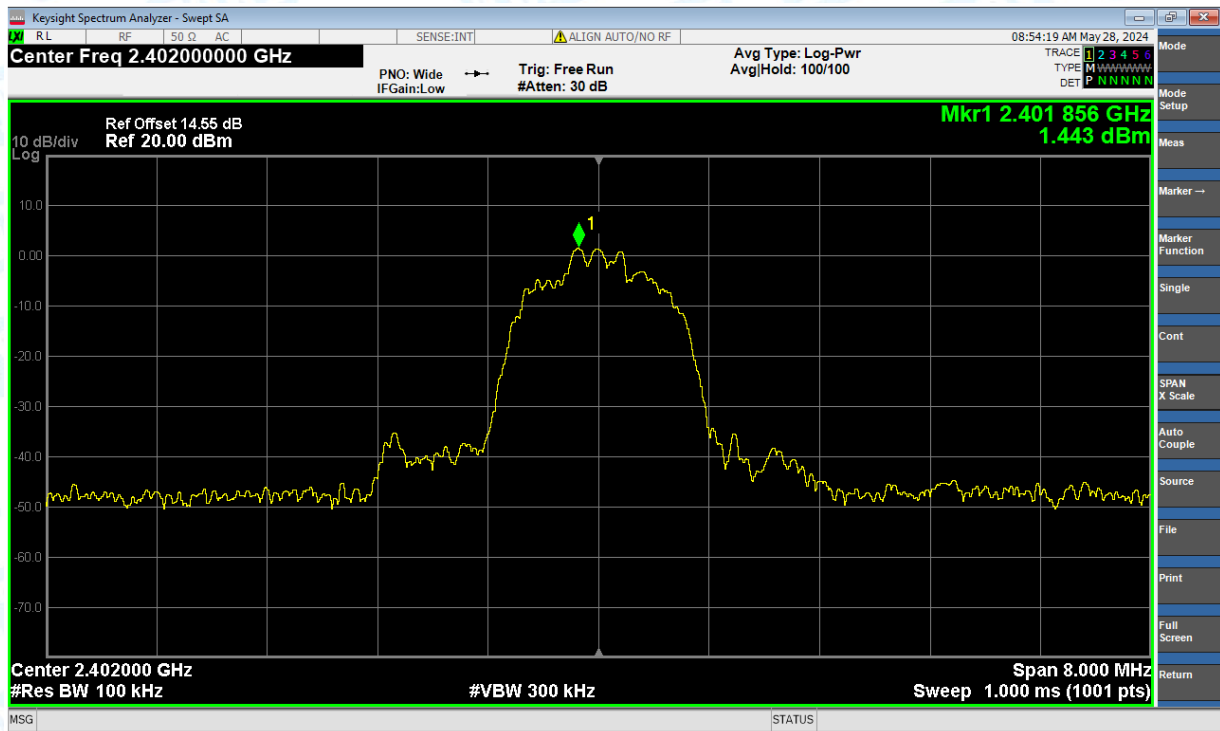
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



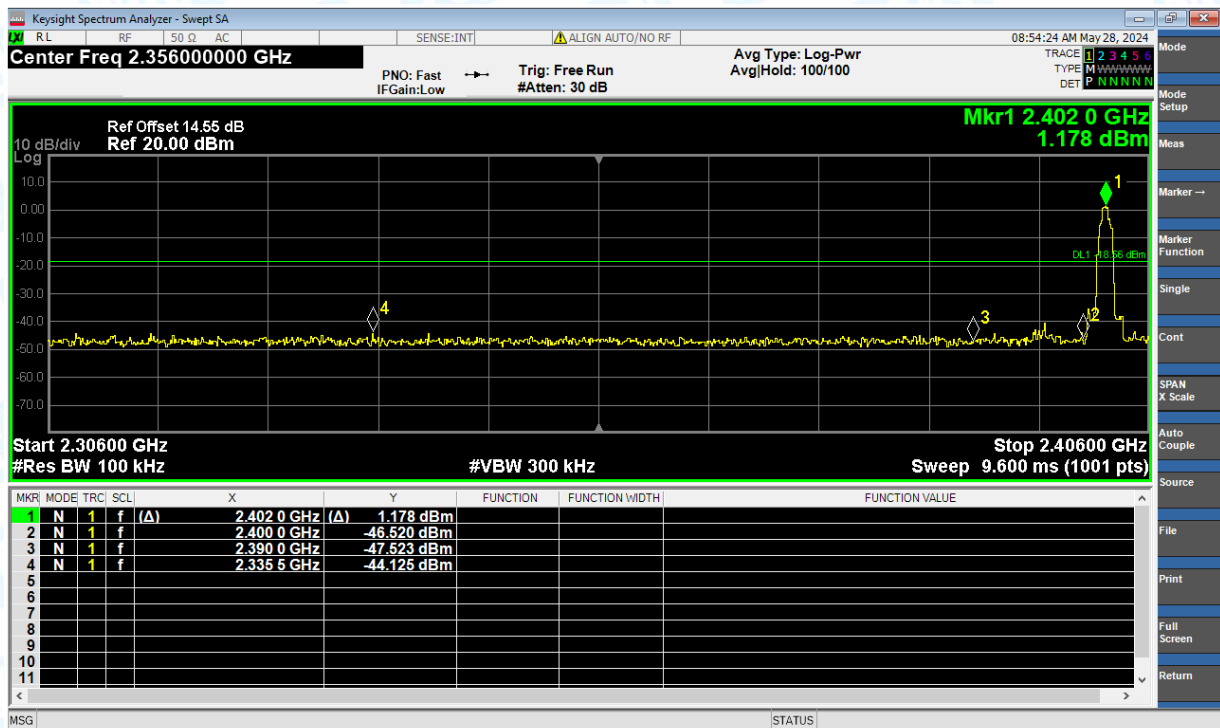
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



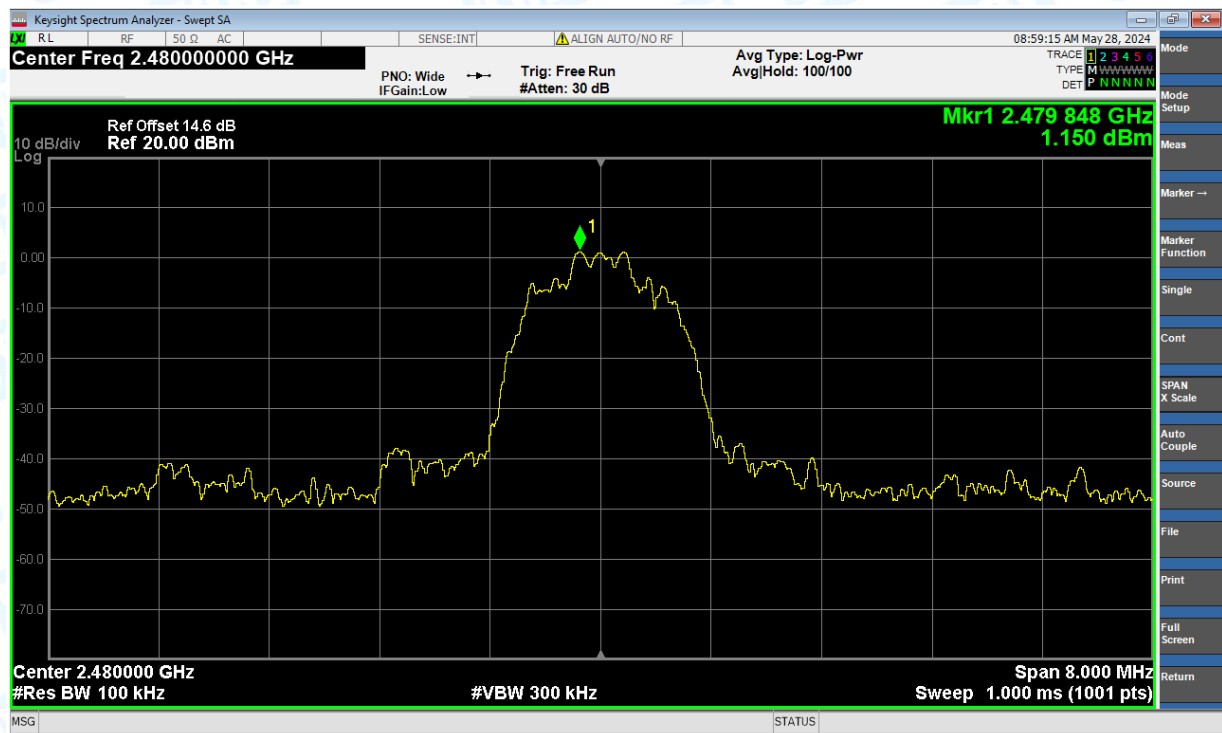
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



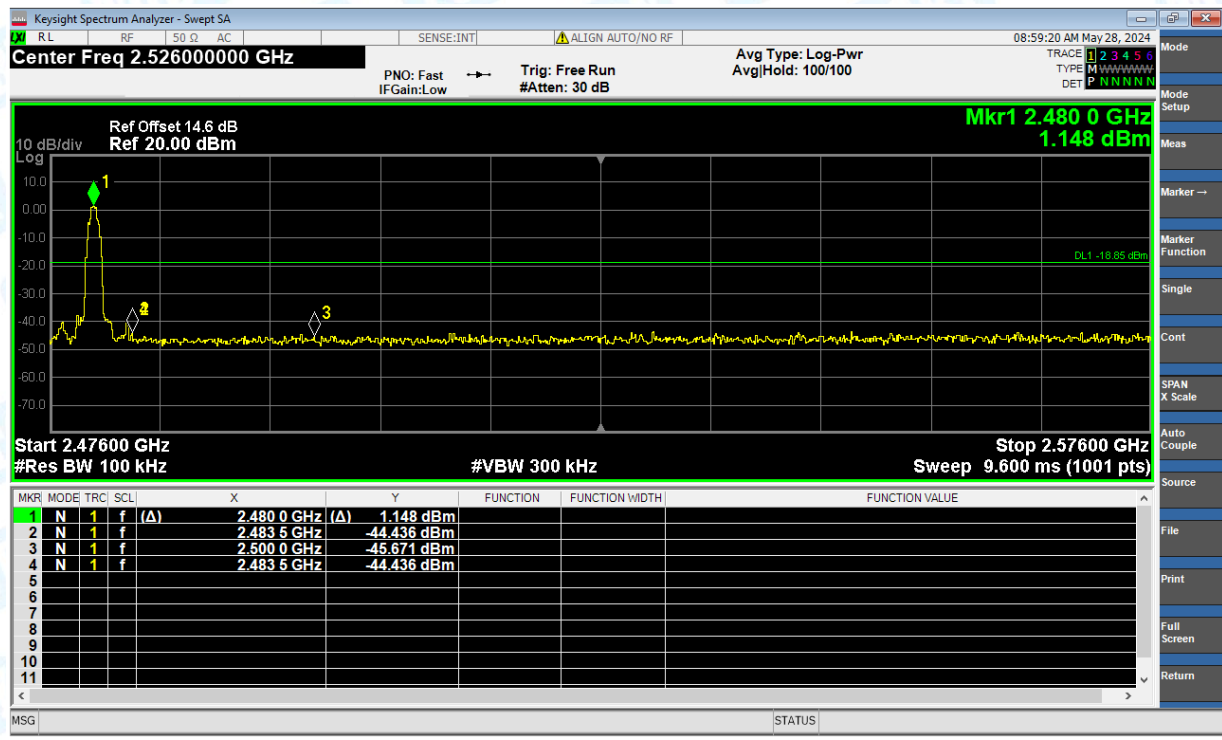
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

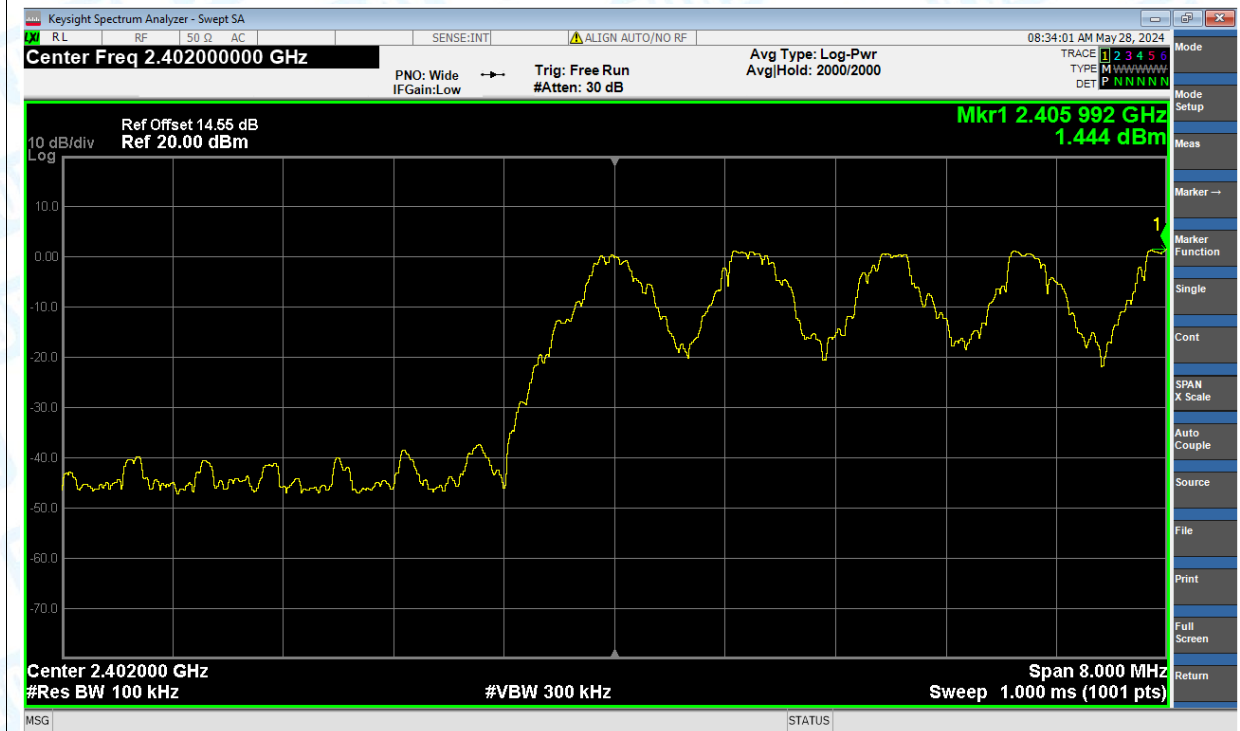


6. Band Edge(Hopping)

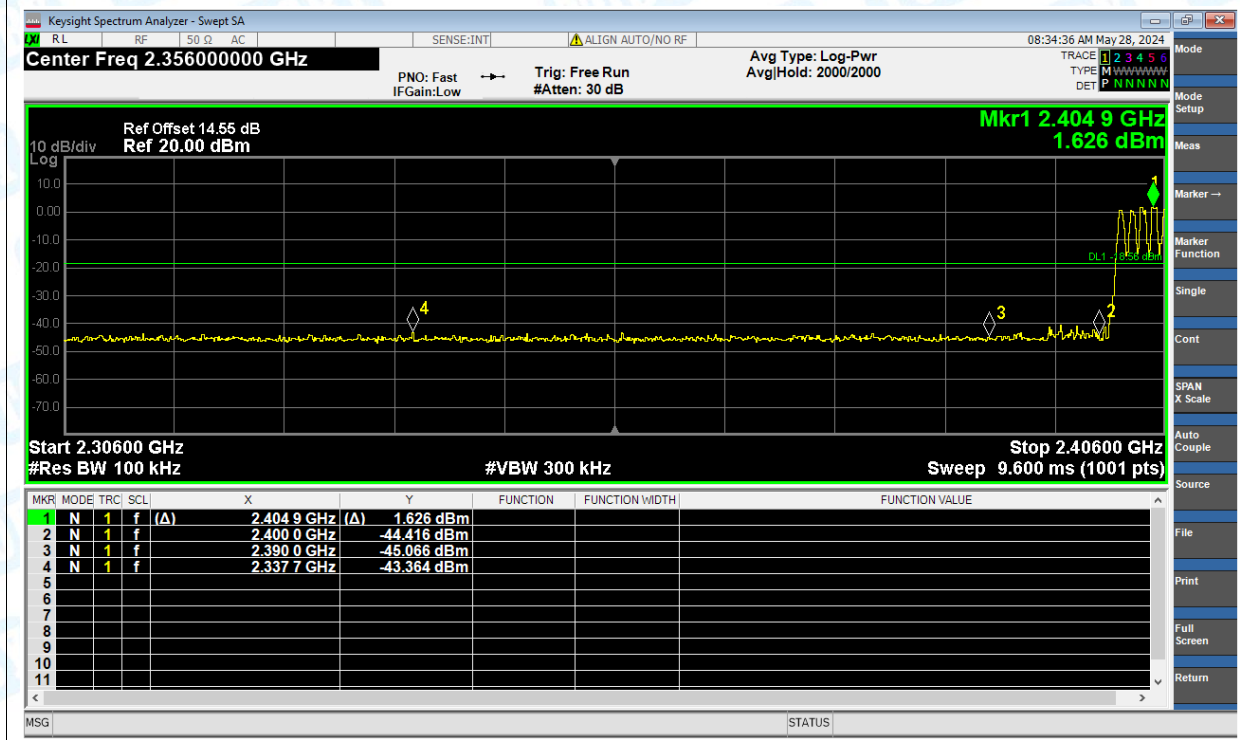
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-44.8	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-44.41	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-44.82	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-44.63	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-44.91	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-44.42	-20	Pass

Test Graphs

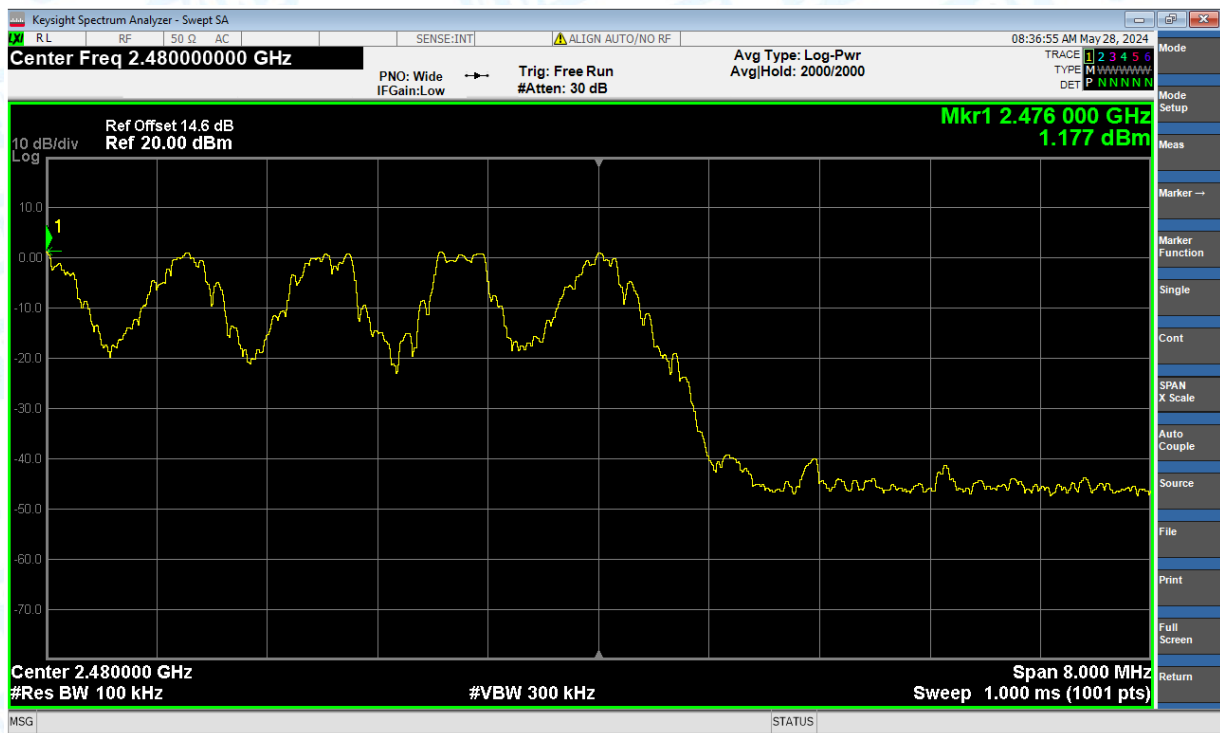
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



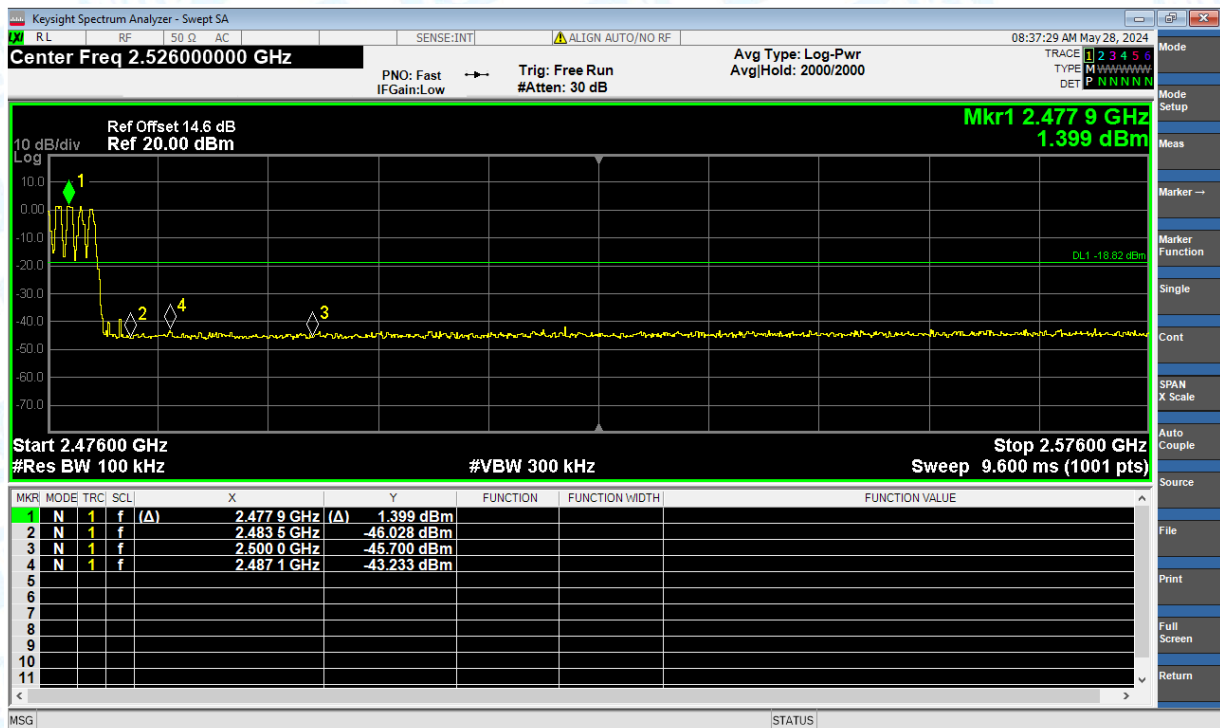
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



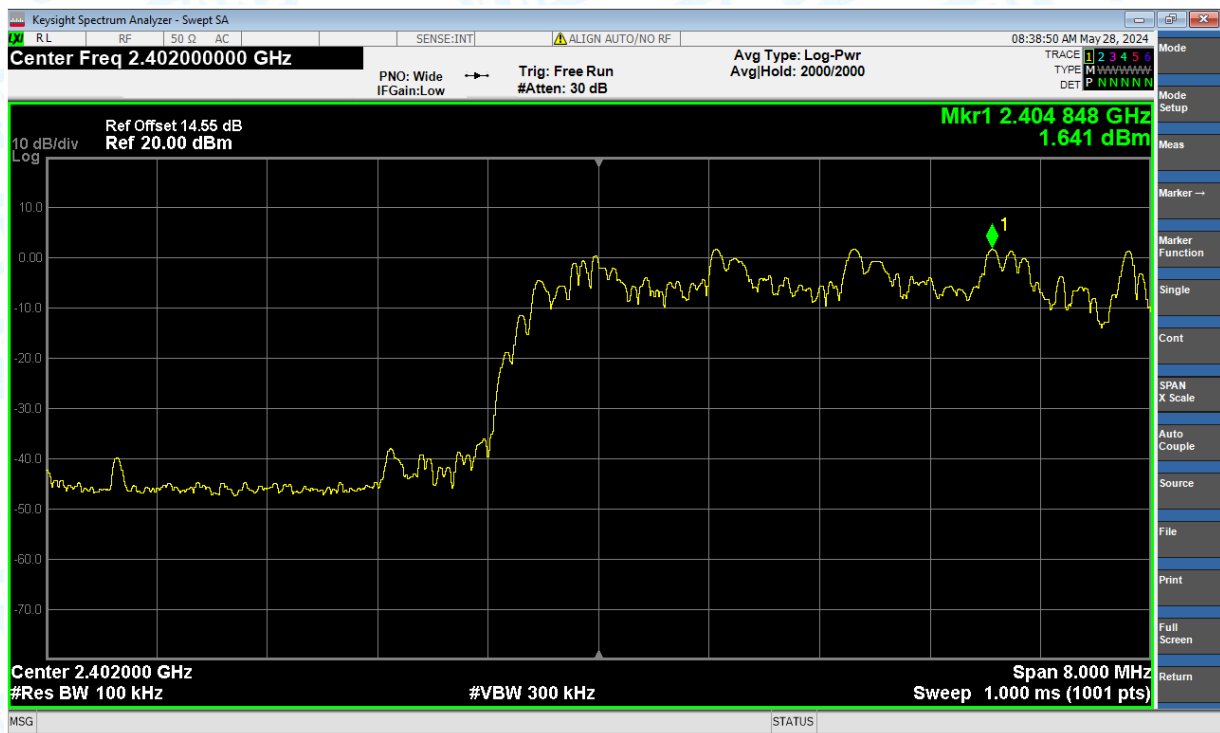
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



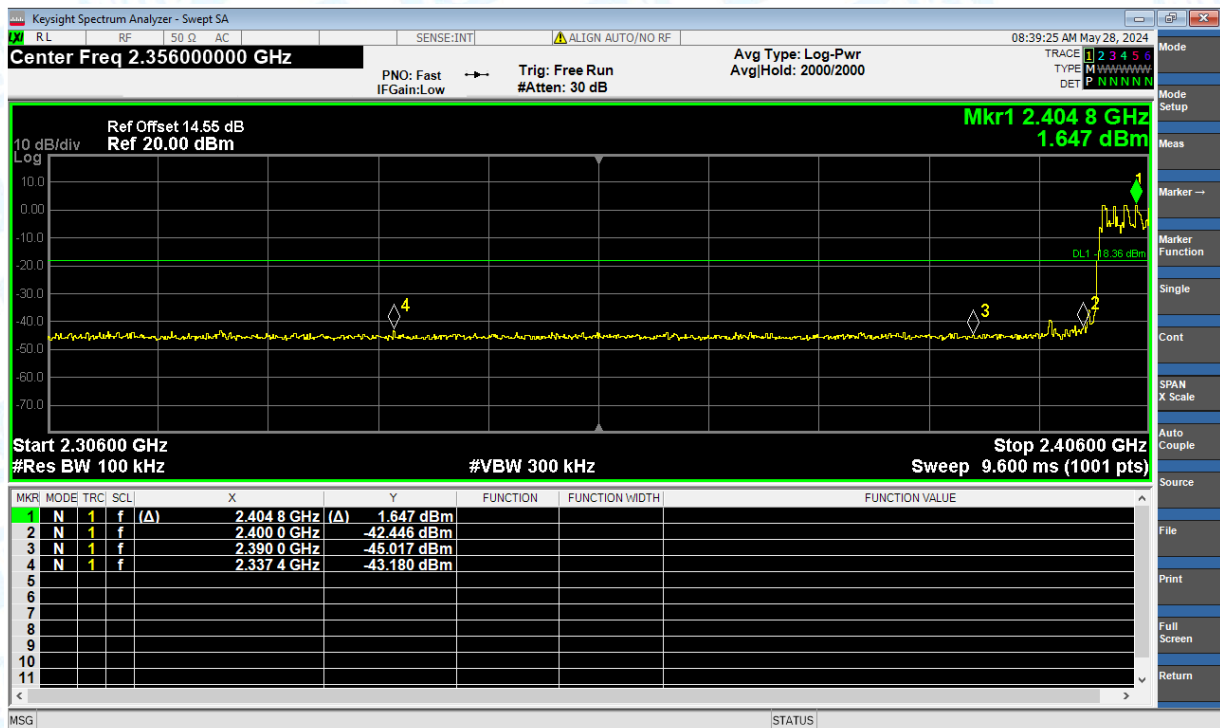
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



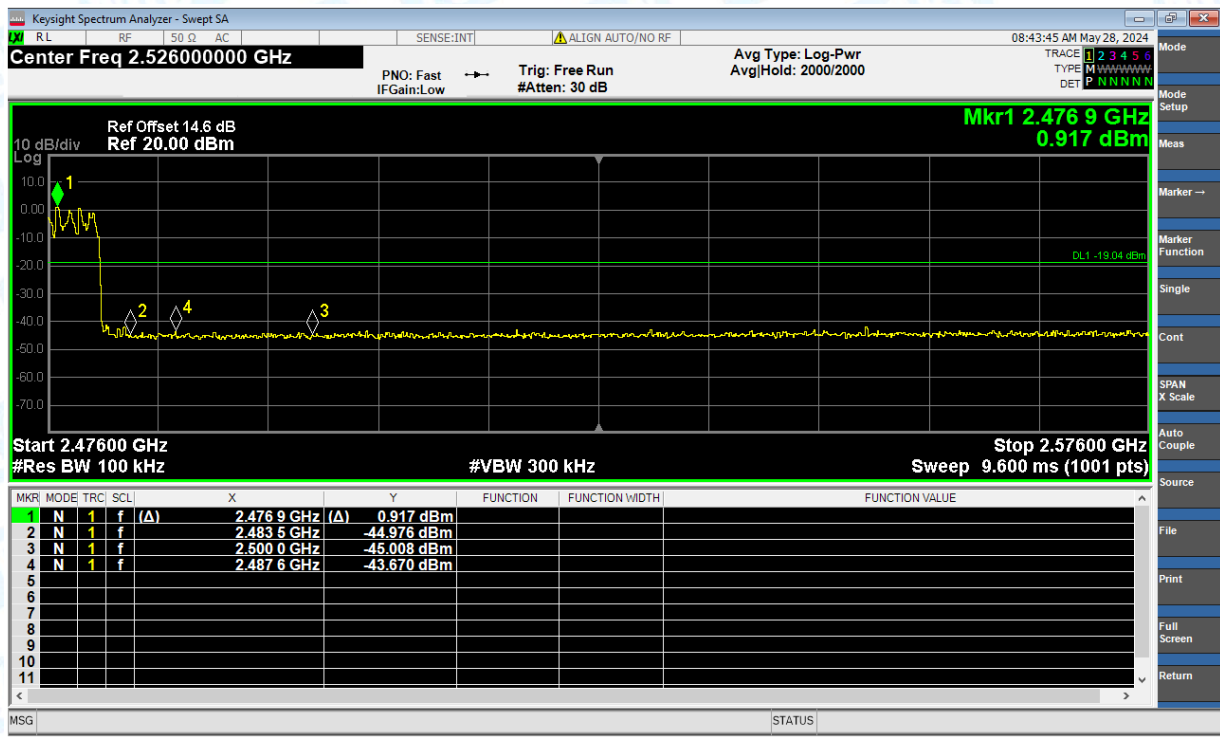
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



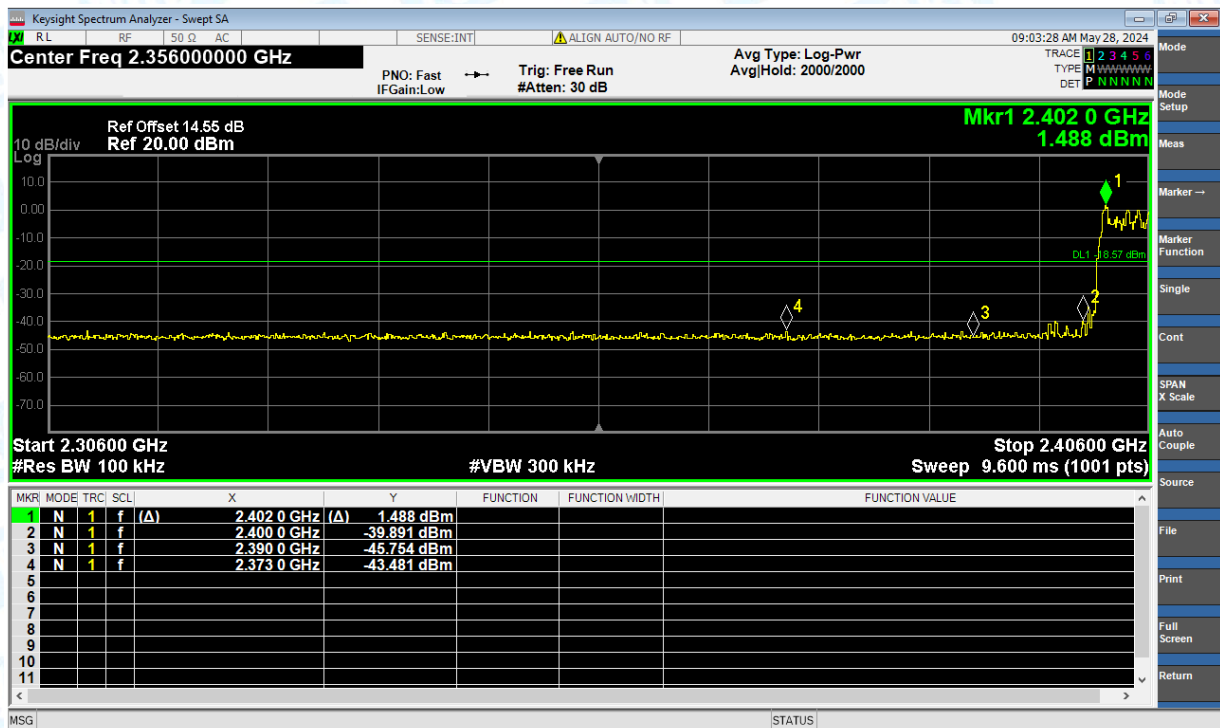
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



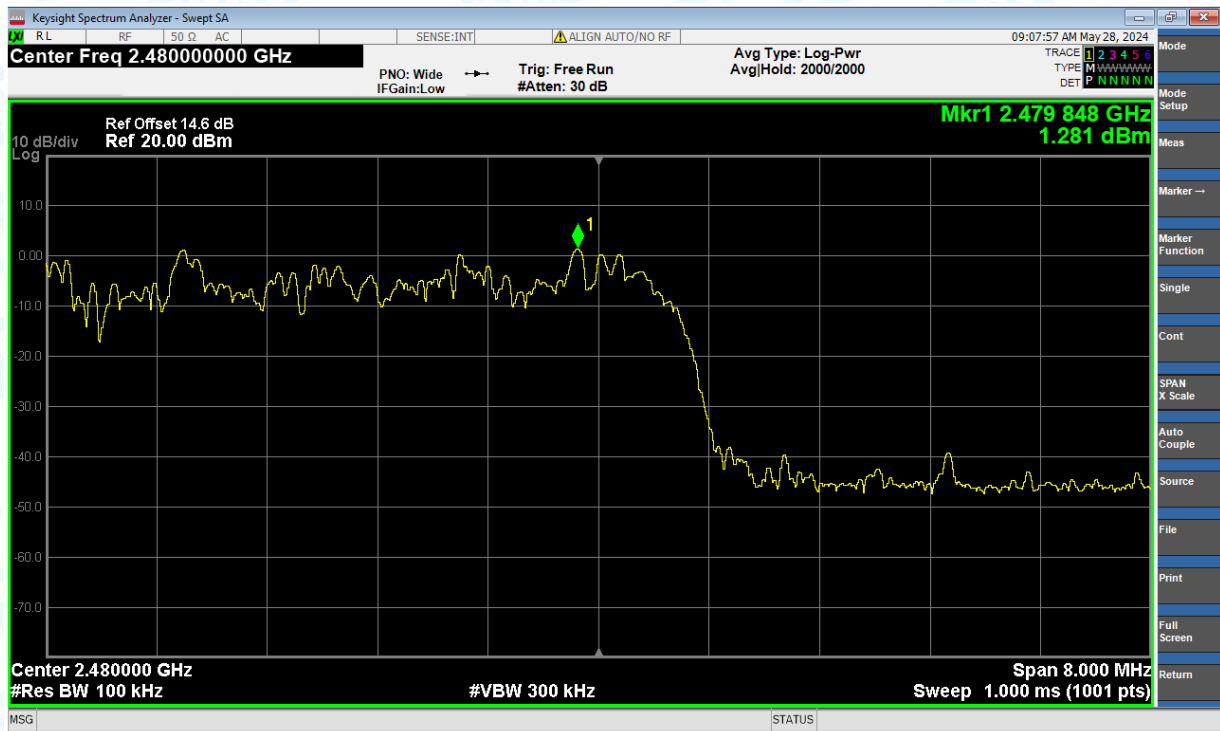
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



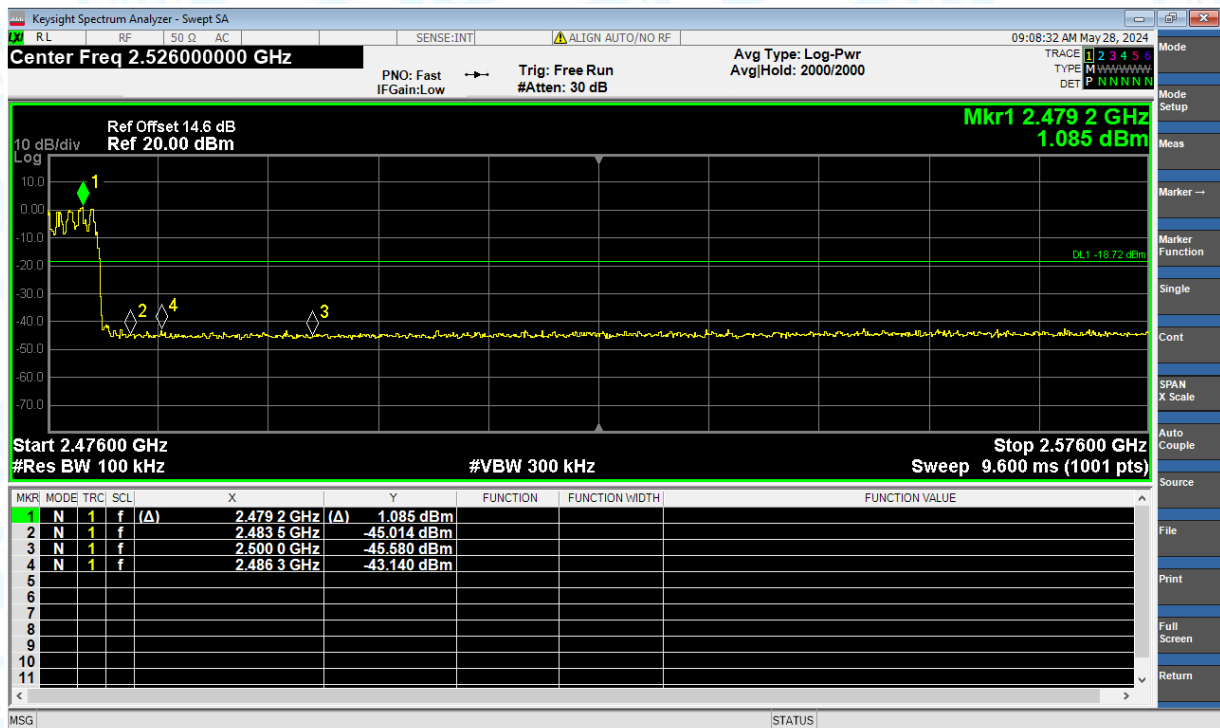
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

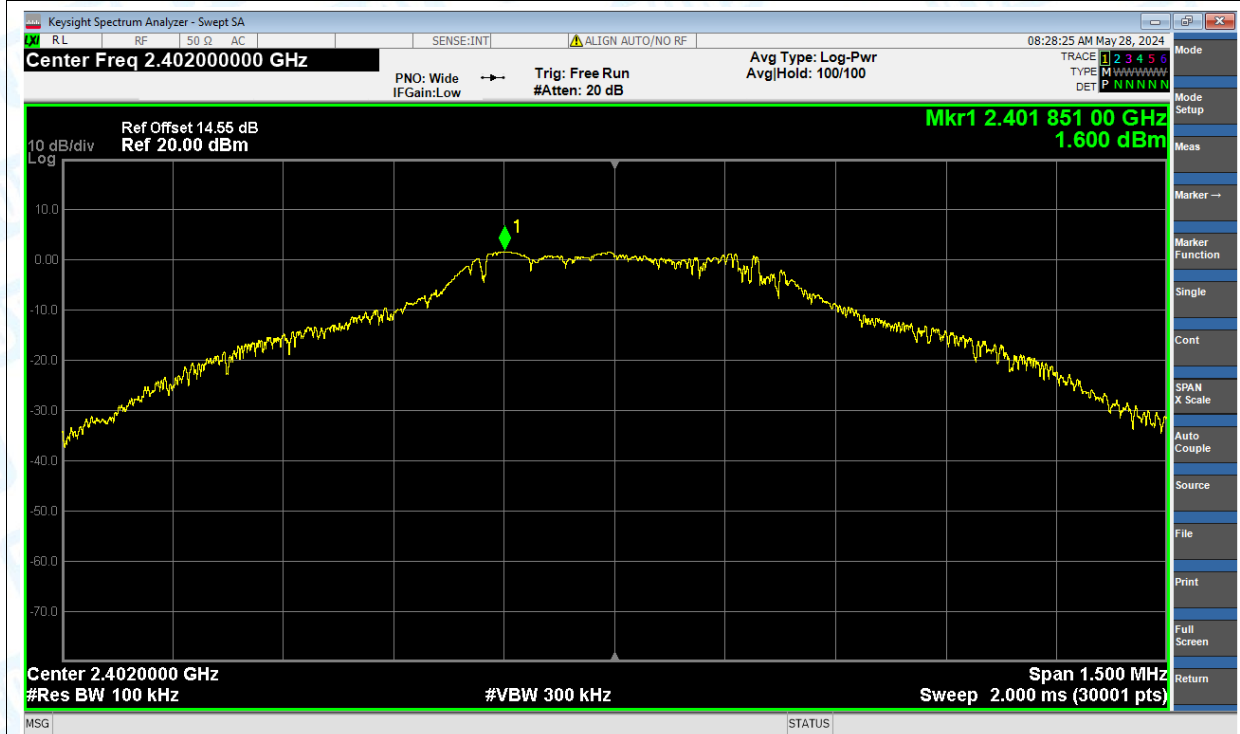


7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-40.42	-20	Pass
NVNT	1-DH1	2441	Ant1	-40.71	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.44	-20	Pass
NVNT	2-DH1	2402	Ant1	-41.15	-20	Pass
NVNT	2-DH1	2441	Ant1	-40.24	-20	Pass
NVNT	2-DH1	2480	Ant1	-38.96	-20	Pass
NVNT	3-DH1	2402	Ant1	-41.16	-20	Pass
NVNT	3-DH1	2441	Ant1	-41.17	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.21	-20	Pass

Test Graphs

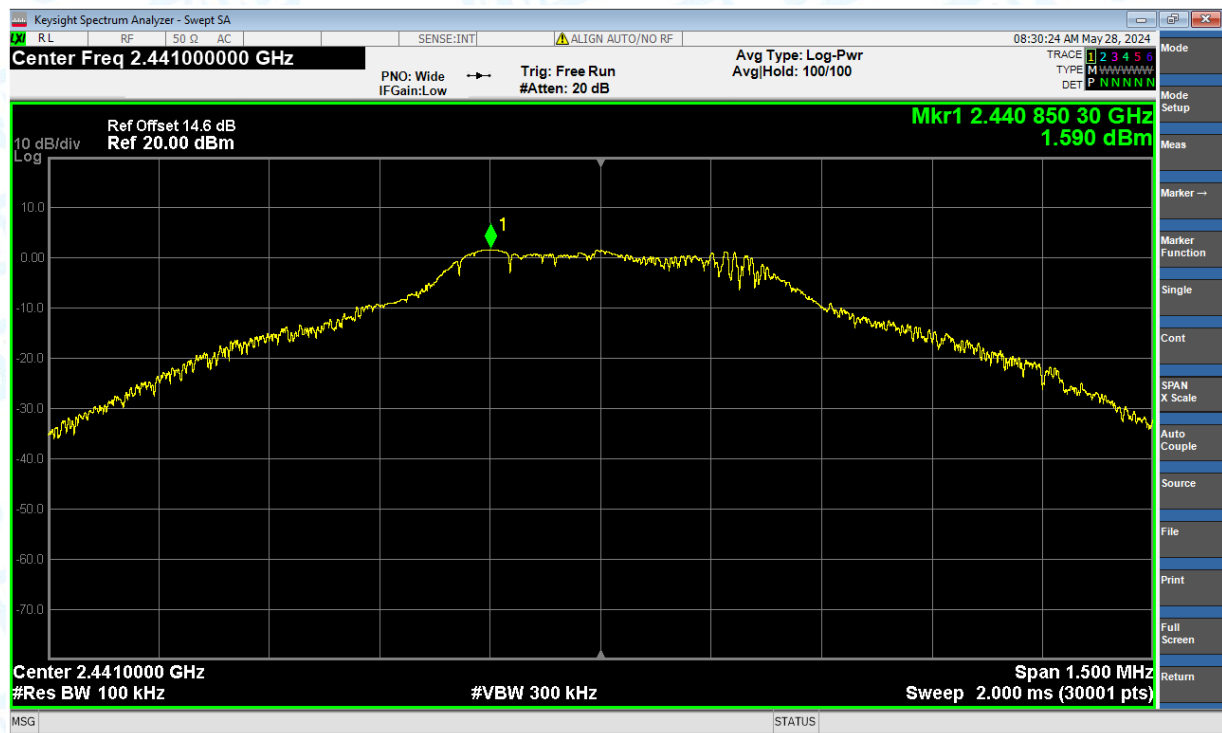
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



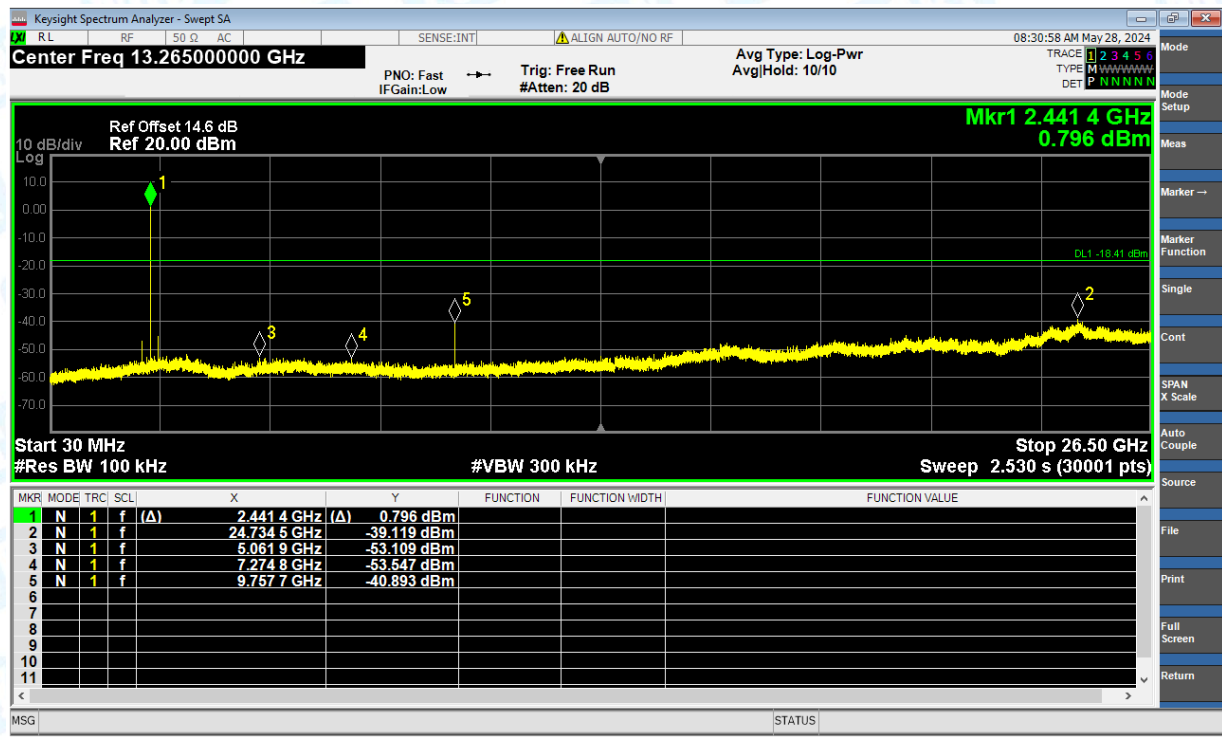
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



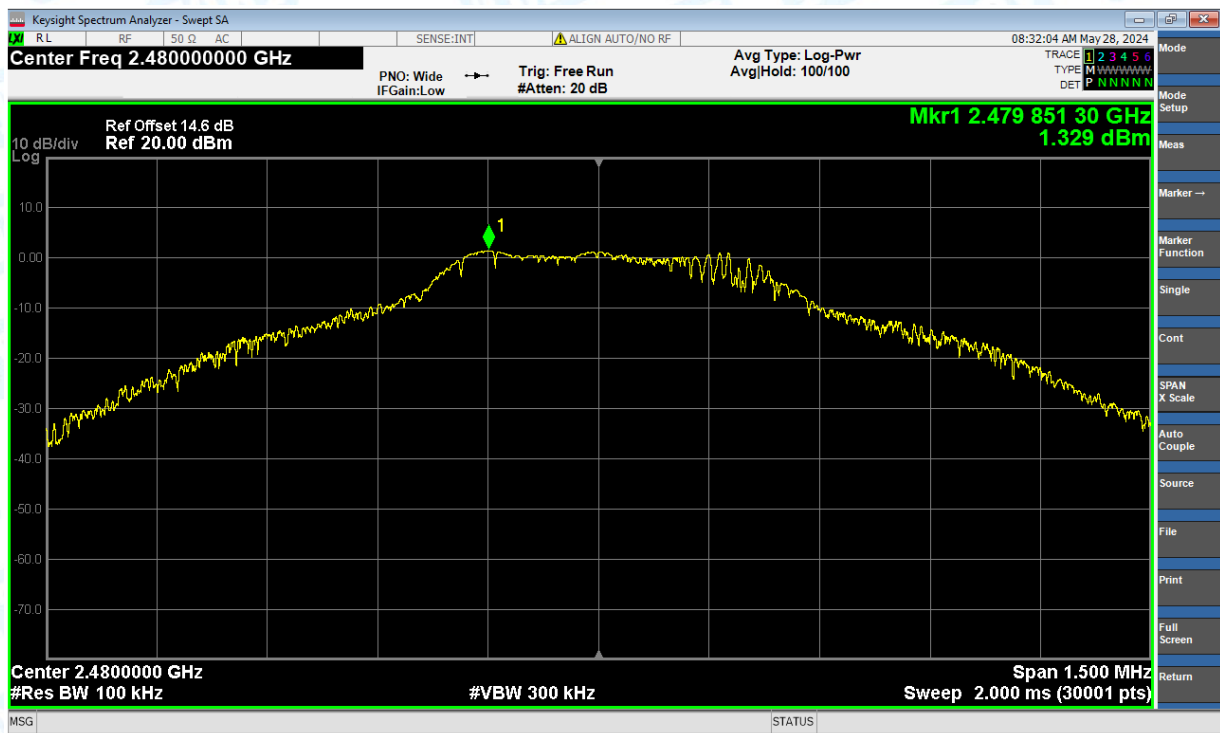
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



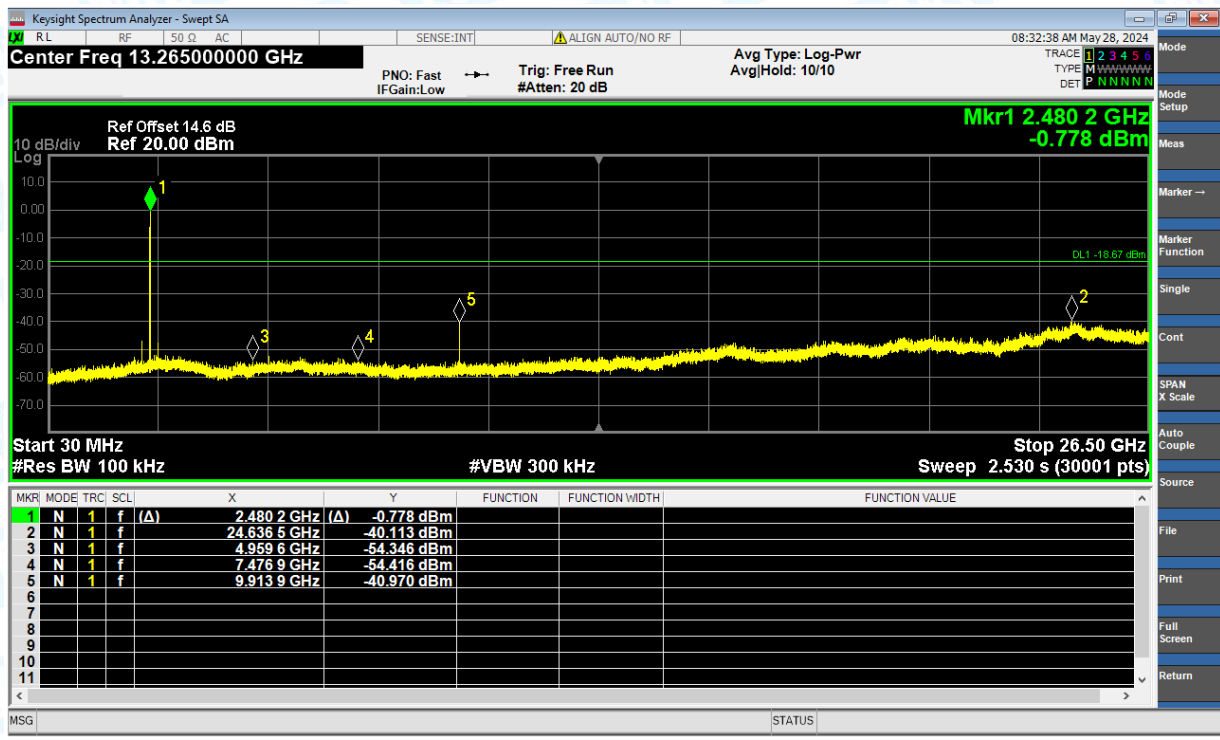
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



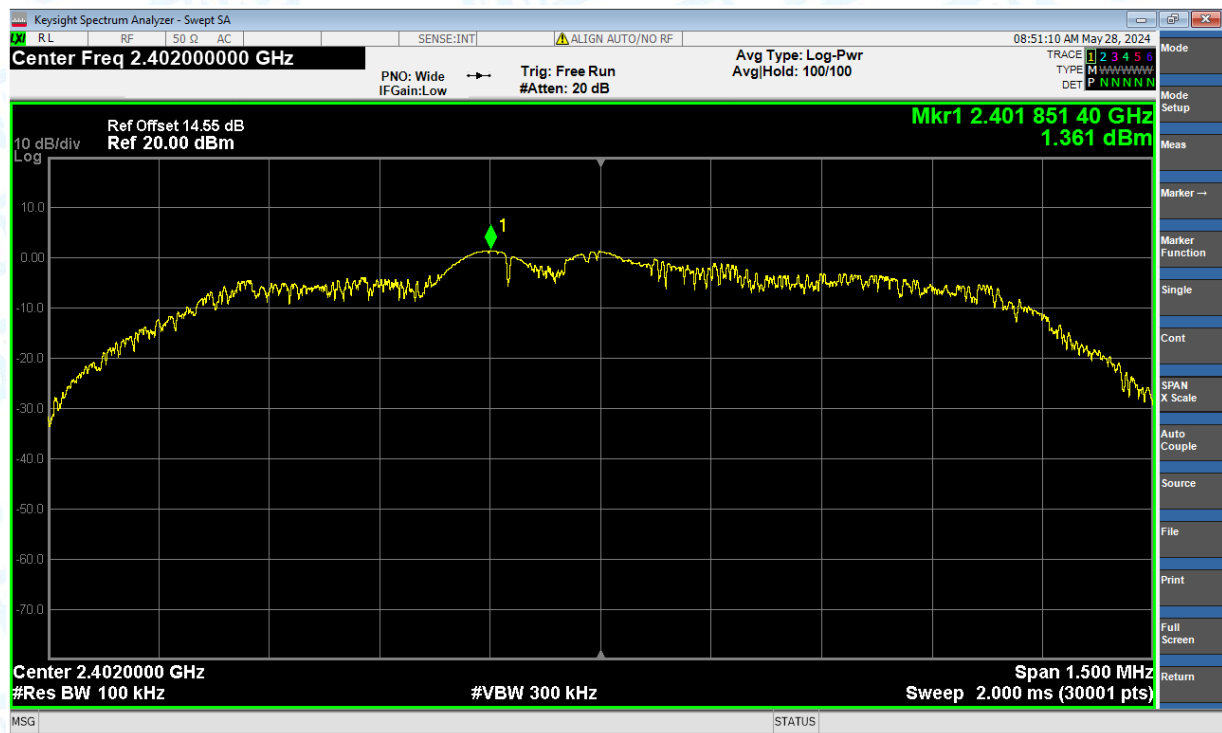
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



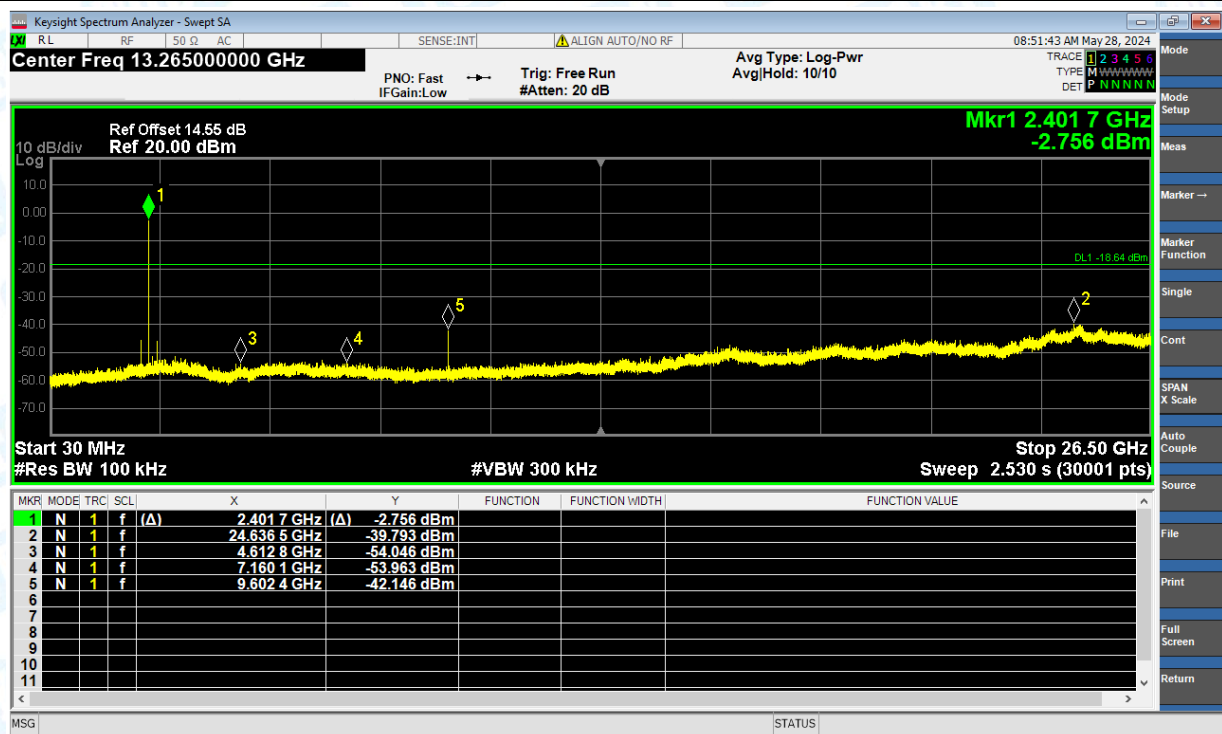
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



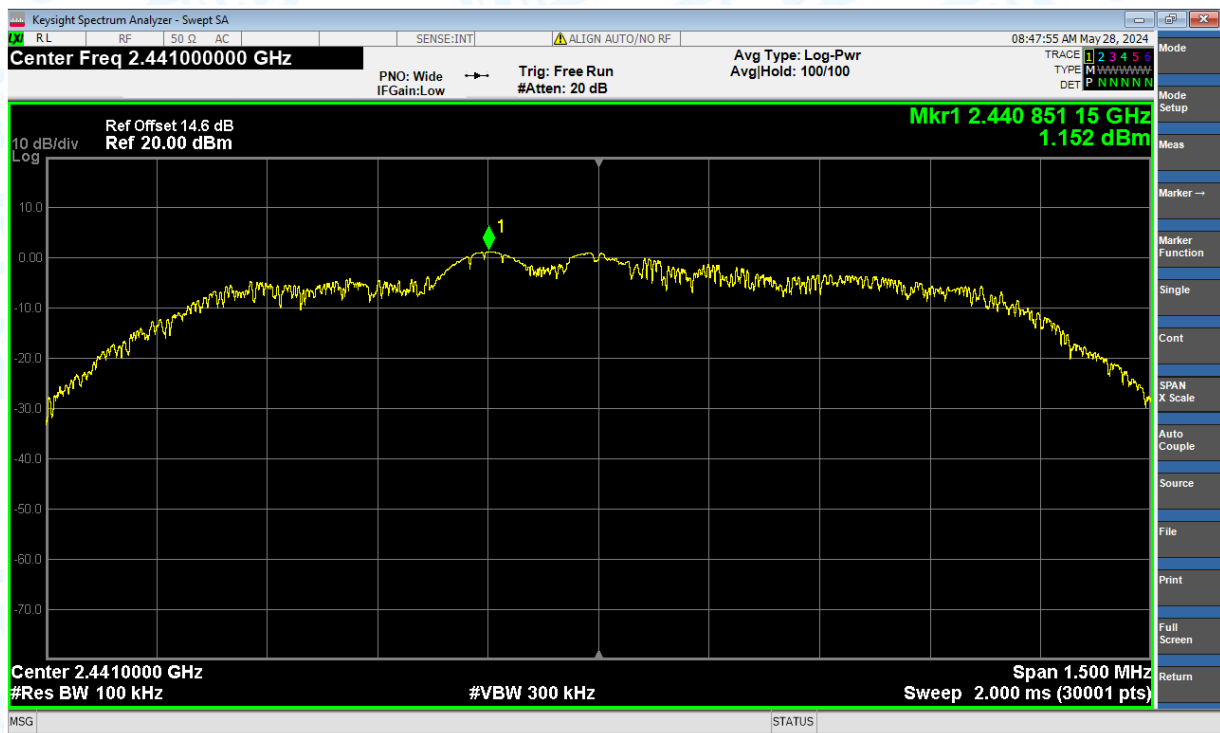
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



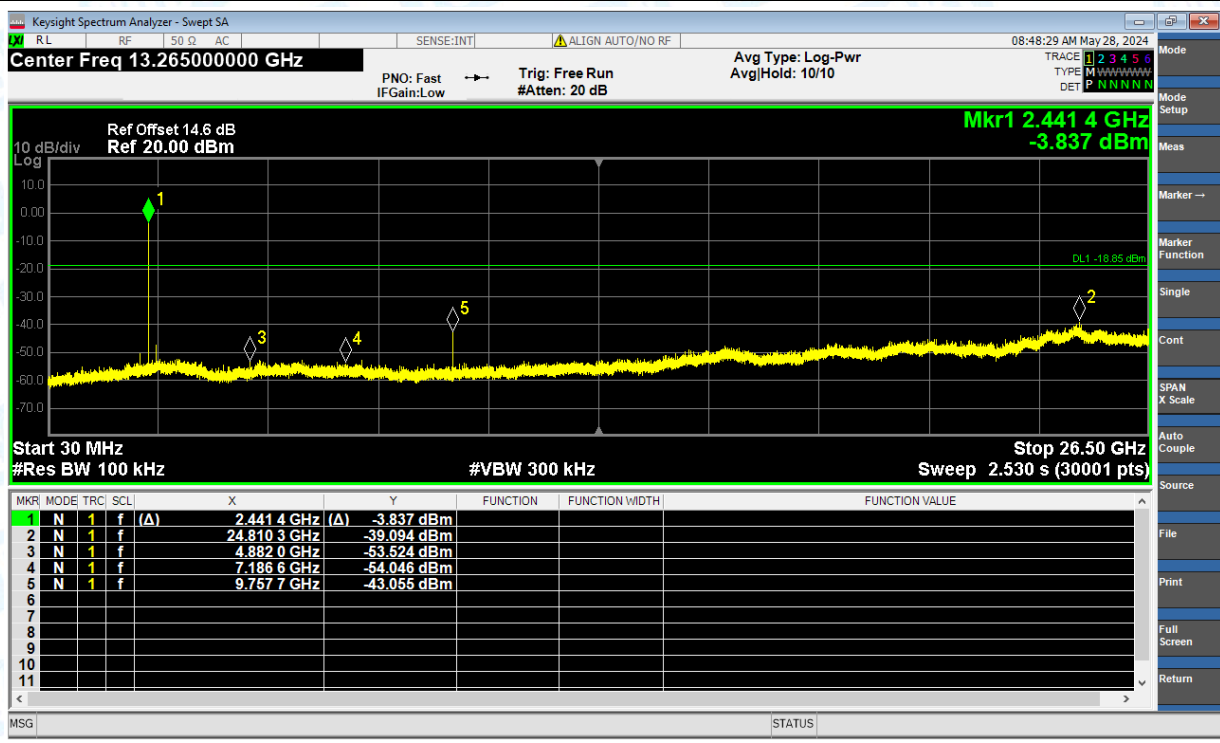
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



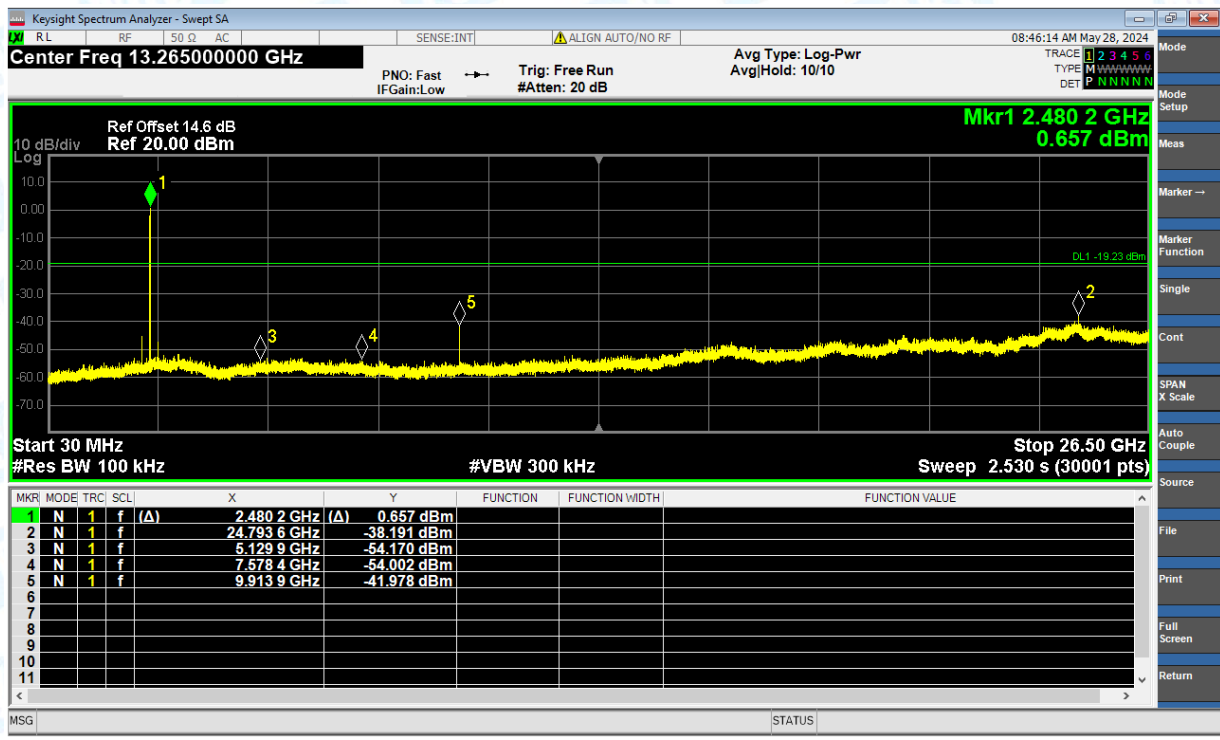
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



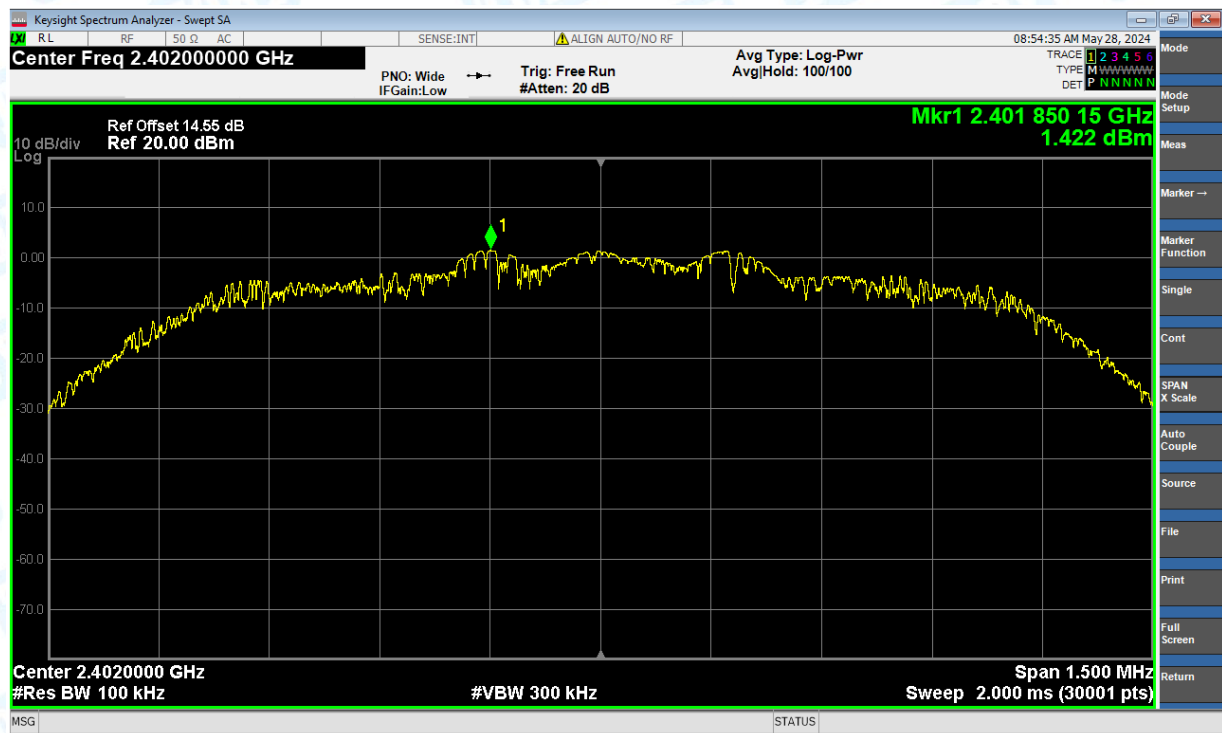
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



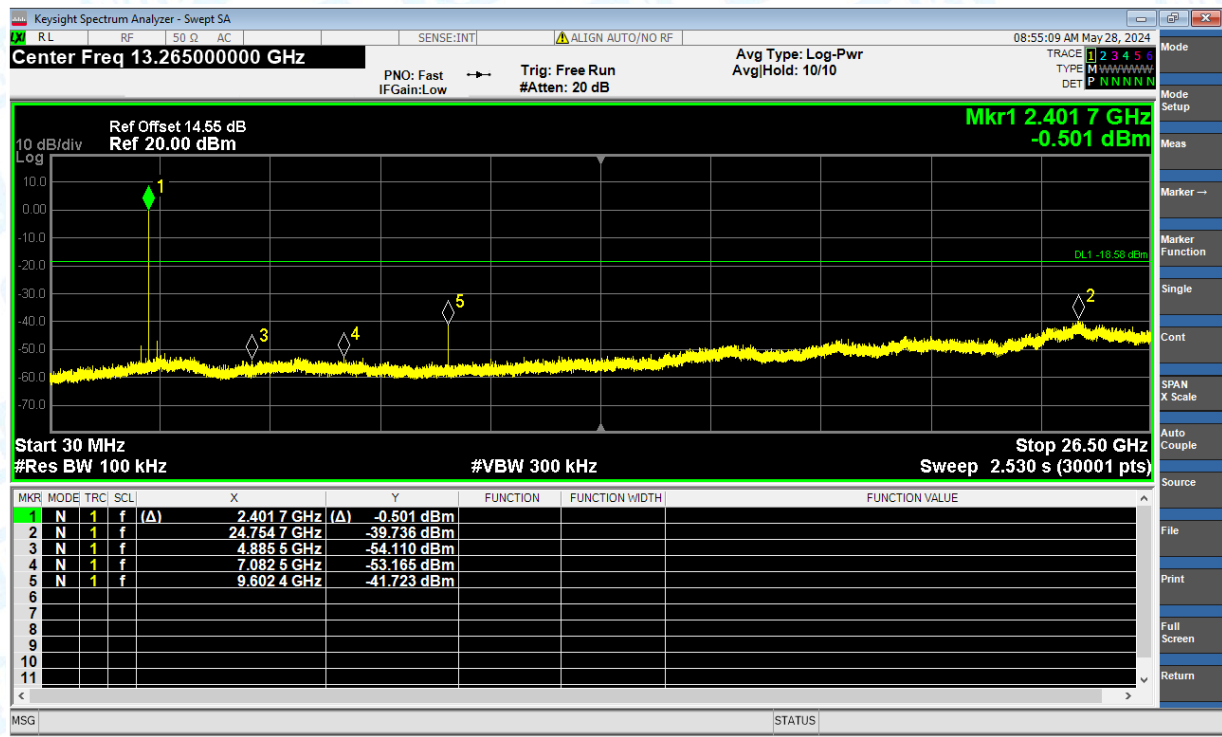
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



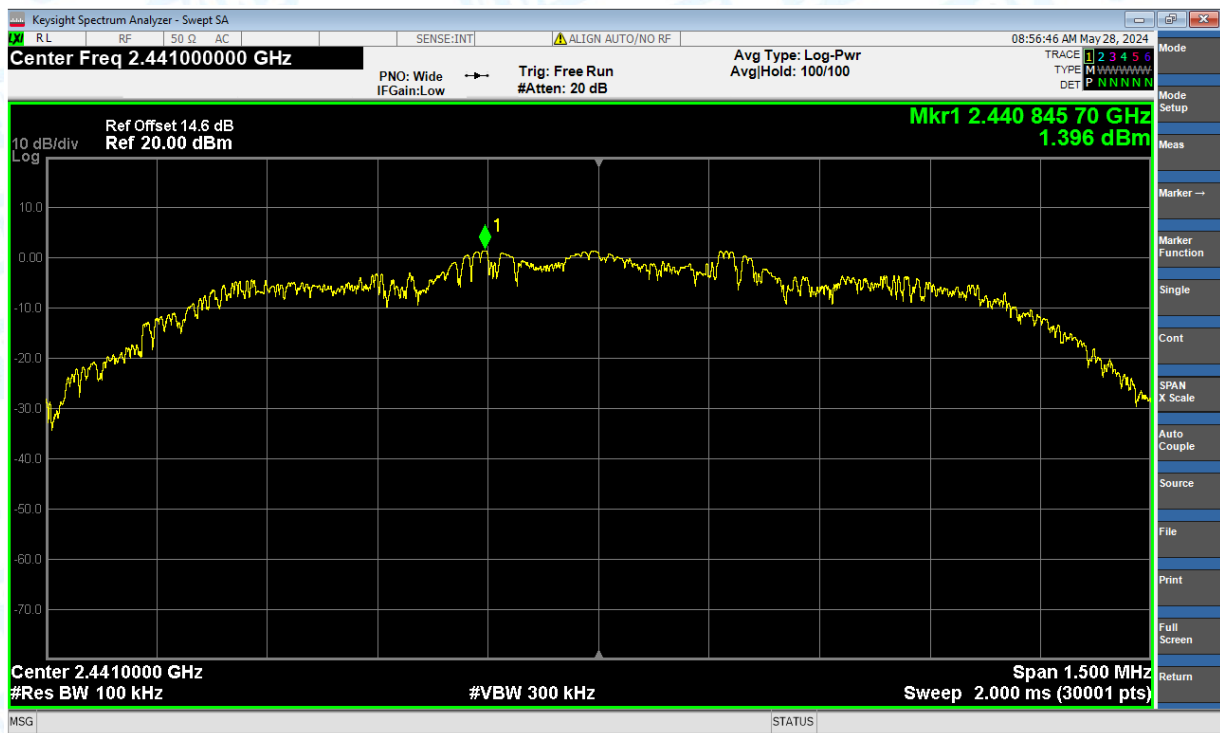
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



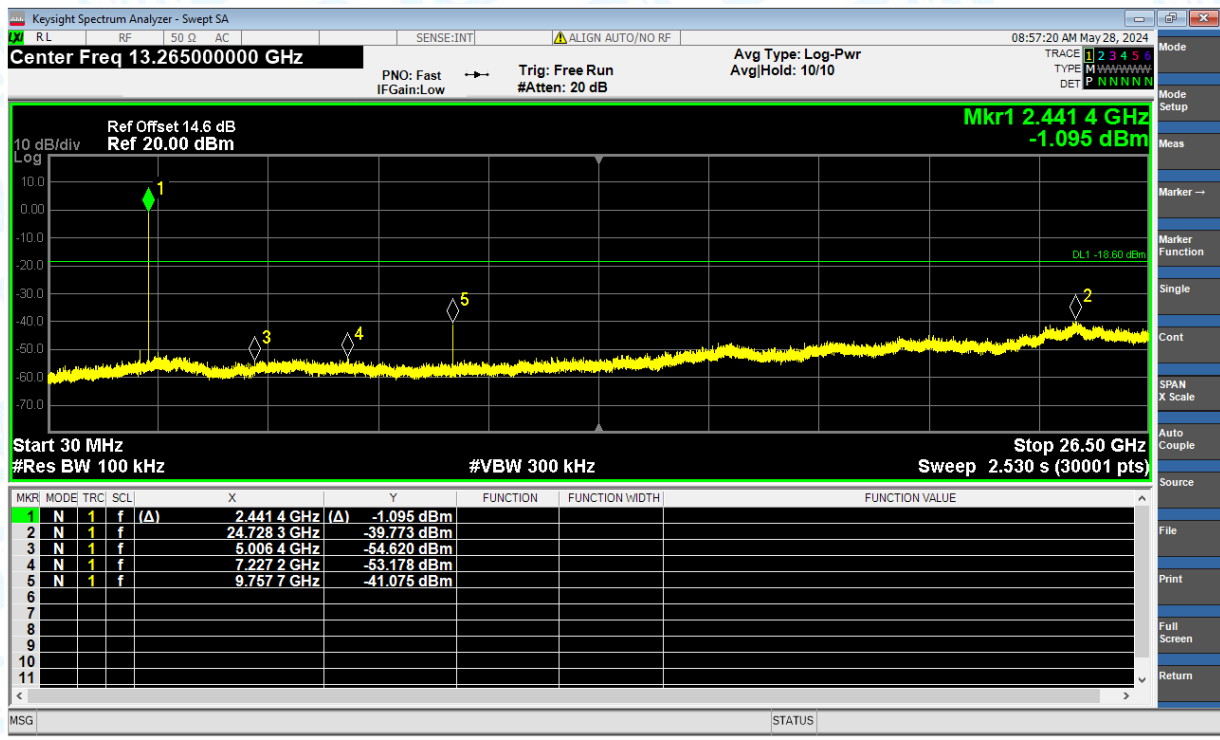
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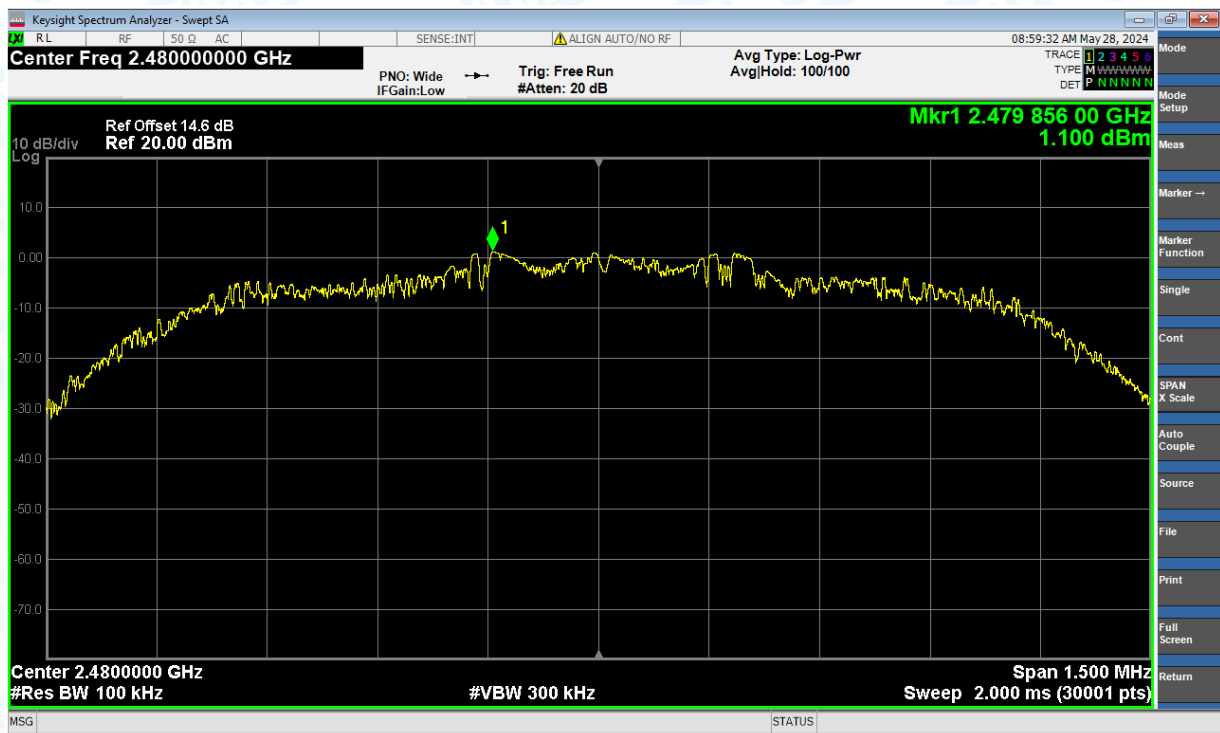
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



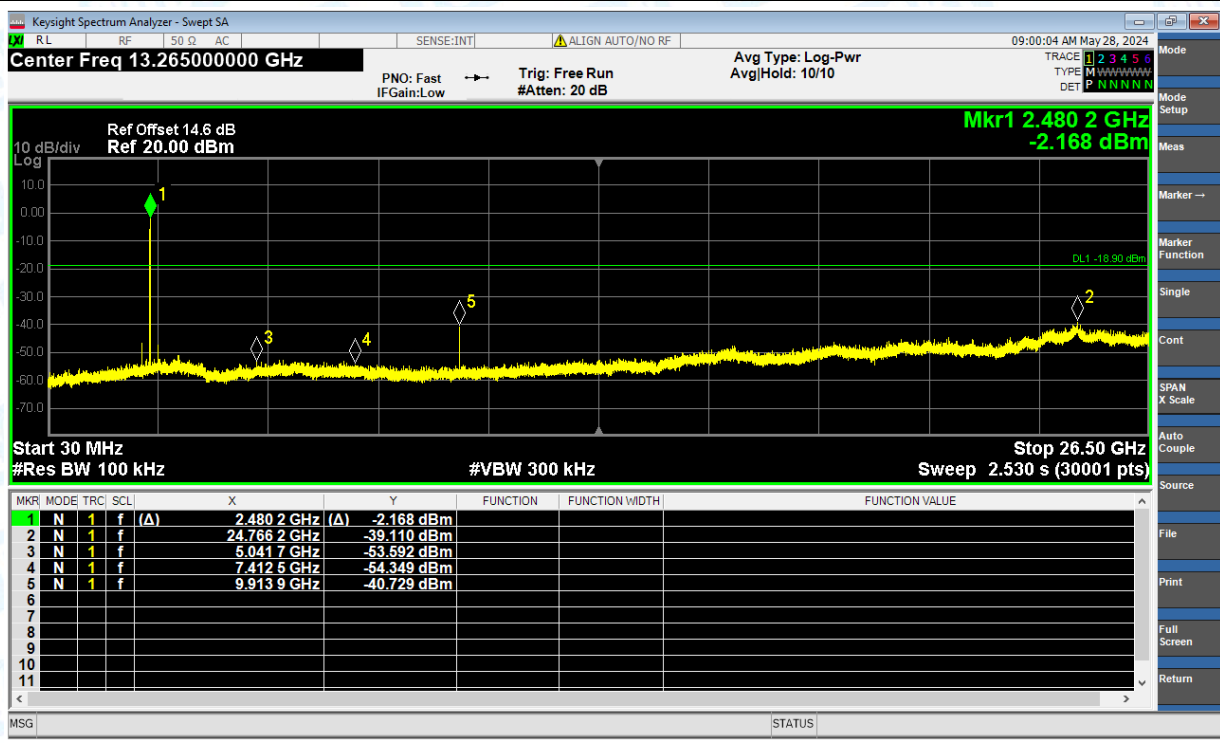
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

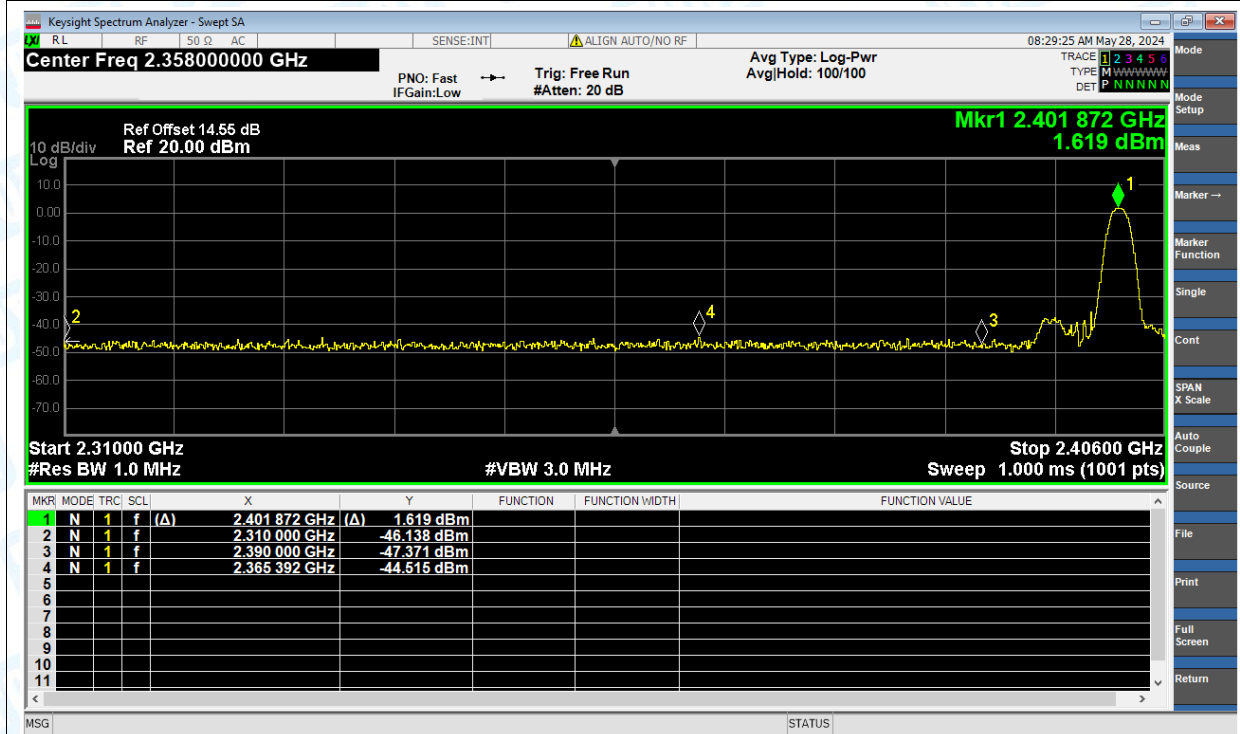


8. Restrict Band

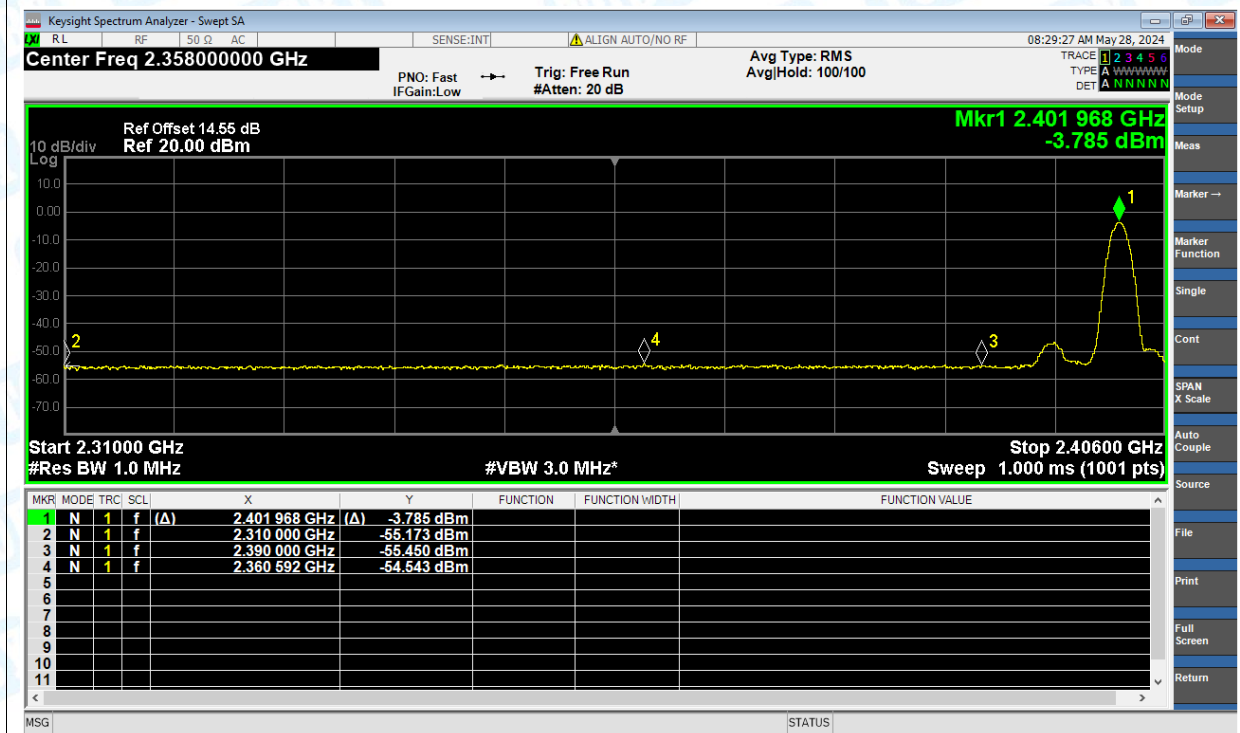
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.14	2	-	51.12	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.17	2	5.14	47.23	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2365.392	-44.52	2	-	52.74	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2360.592	-54.54	2	5.14	47.86	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.37	2	-	49.89	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.45	2	5.14	46.95	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-41.47	2	-	55.79	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-49.96	2	5.06	52.36	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.608	-39.96	2	-	57.3	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.56	-49.32	2	5.06	53	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.7	2	-	50.56	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.91	2	5.06	47.41	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.87	2	-	49.39	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.5	2	5.06	46.82	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2369.52	-44.31	2	-	52.95	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2366.928	-54.7	2	5.06	47.62	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.96	2	-	50.3	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.63	2	5.06	46.69	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-40.65	2	-	56.61	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-50.48	2	5.06	51.84	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.536	-40.57	2	-	56.69	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.656	-50.45	2	5.06	51.87	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.42	2	-	49.84	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.23	2	5.06	47.09	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-46.98	2	-	50.28	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.98	2	5.06	46.34	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2374.416	-44.64	2	-	52.62	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2388.72	-54.72	2	5.06	47.6	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.85	2	-	49.41	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.4	2	5.06	46.92	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-39.23	2	-	58.03	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-52.08	2	4.95	50.13	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.608	-39.18	2	-	58.08	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-52.08	2	4.95	50.13	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.93	2	-	49.33	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.54	2	4.95	46.67	Average	54	Pass

Test Graphs

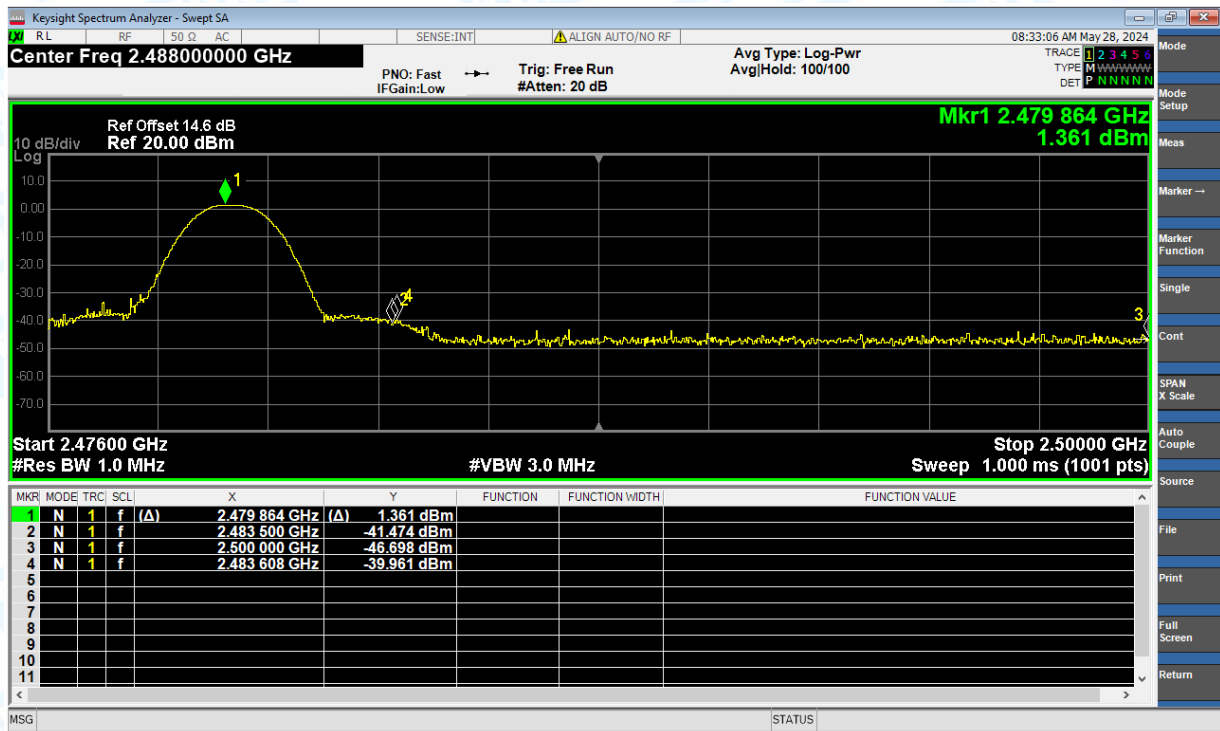
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



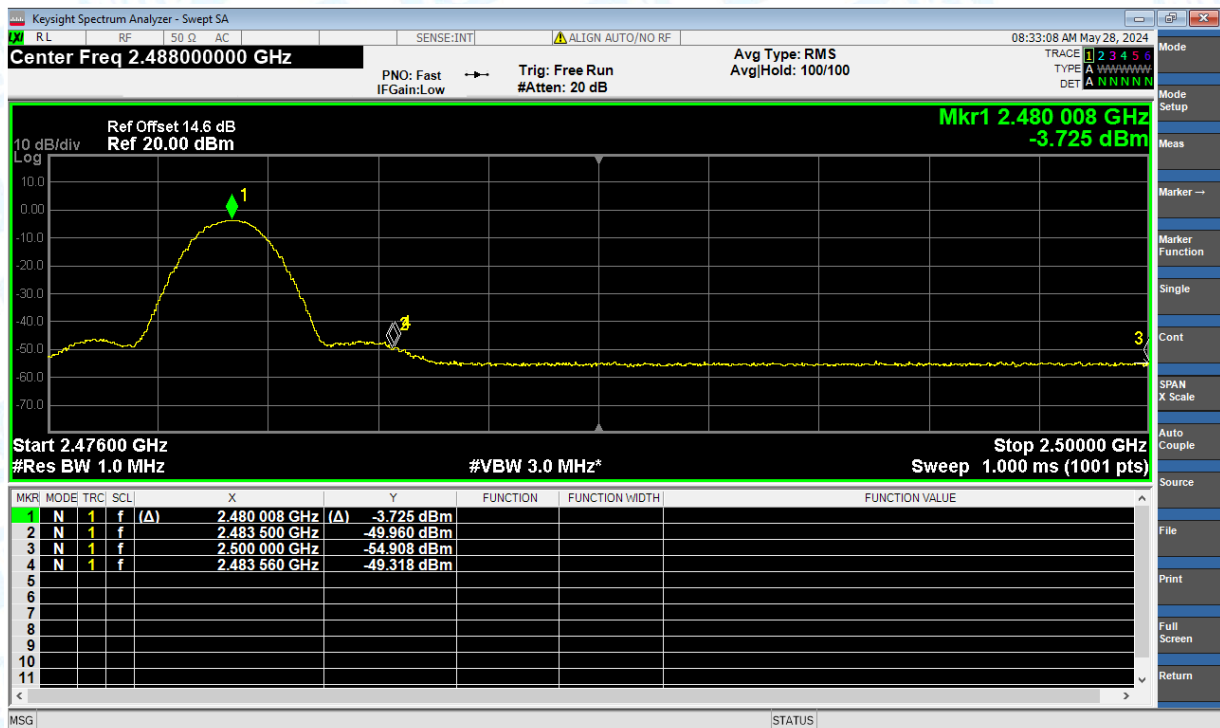
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



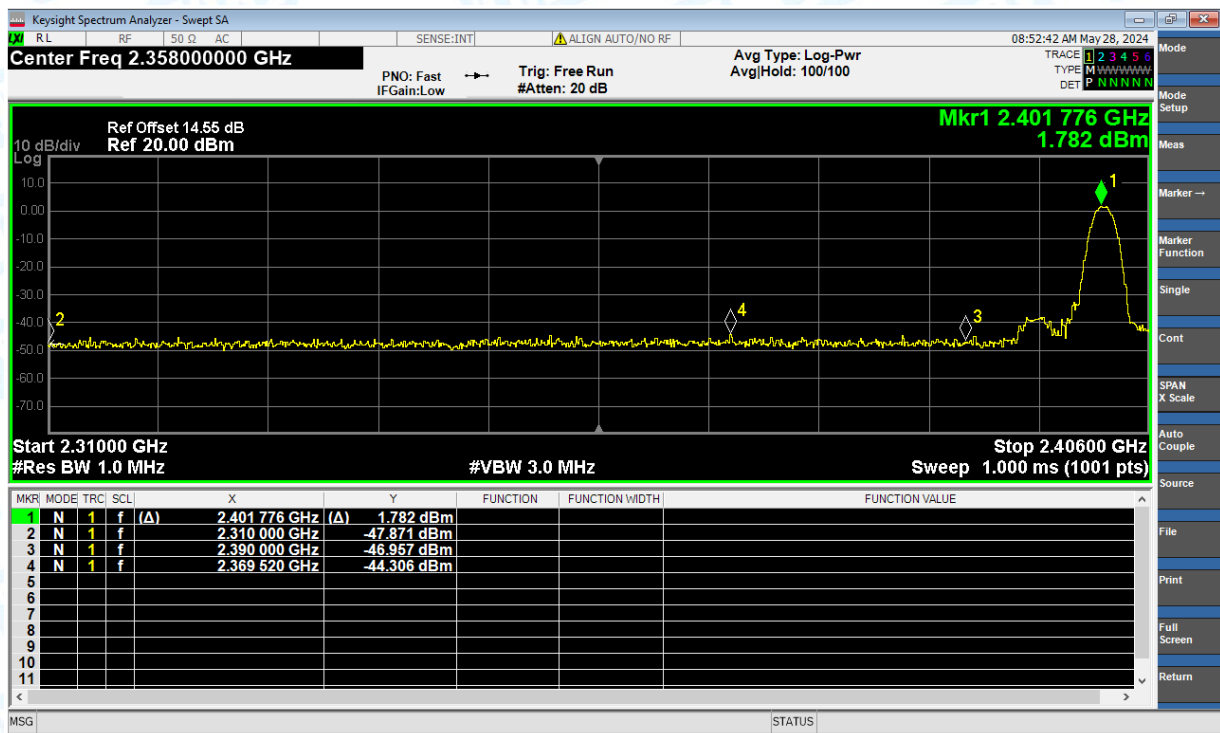
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



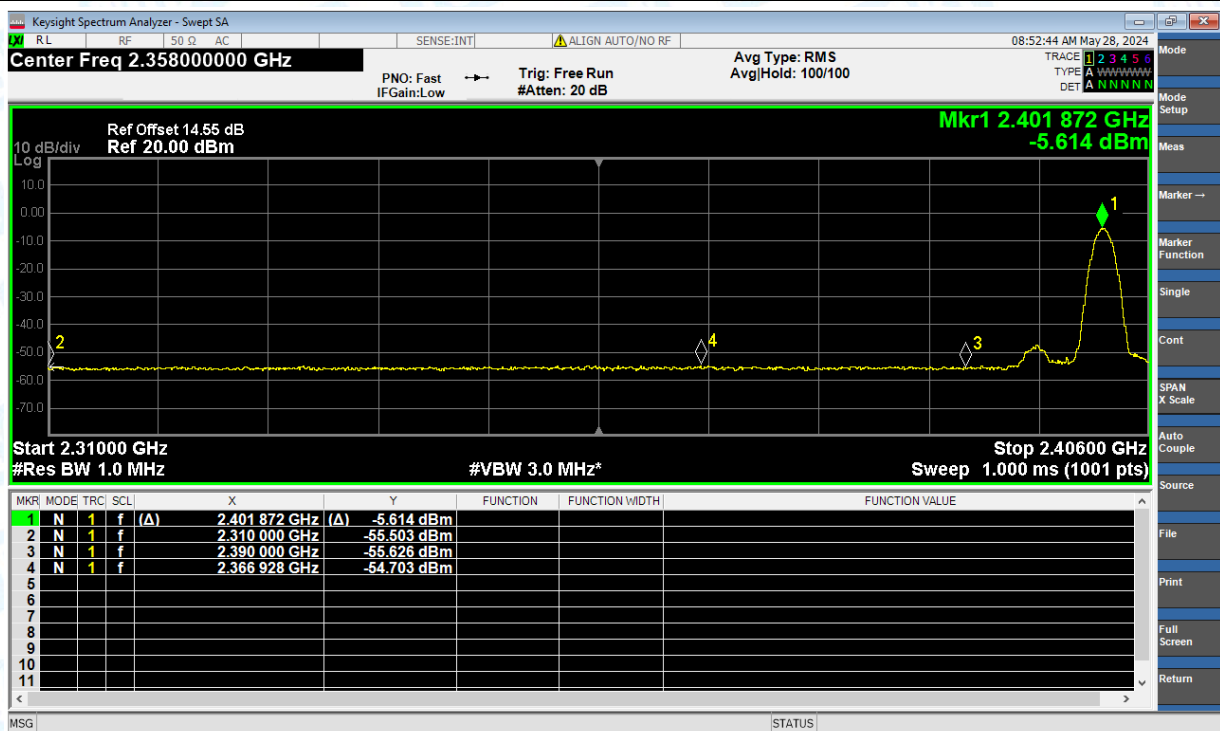
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



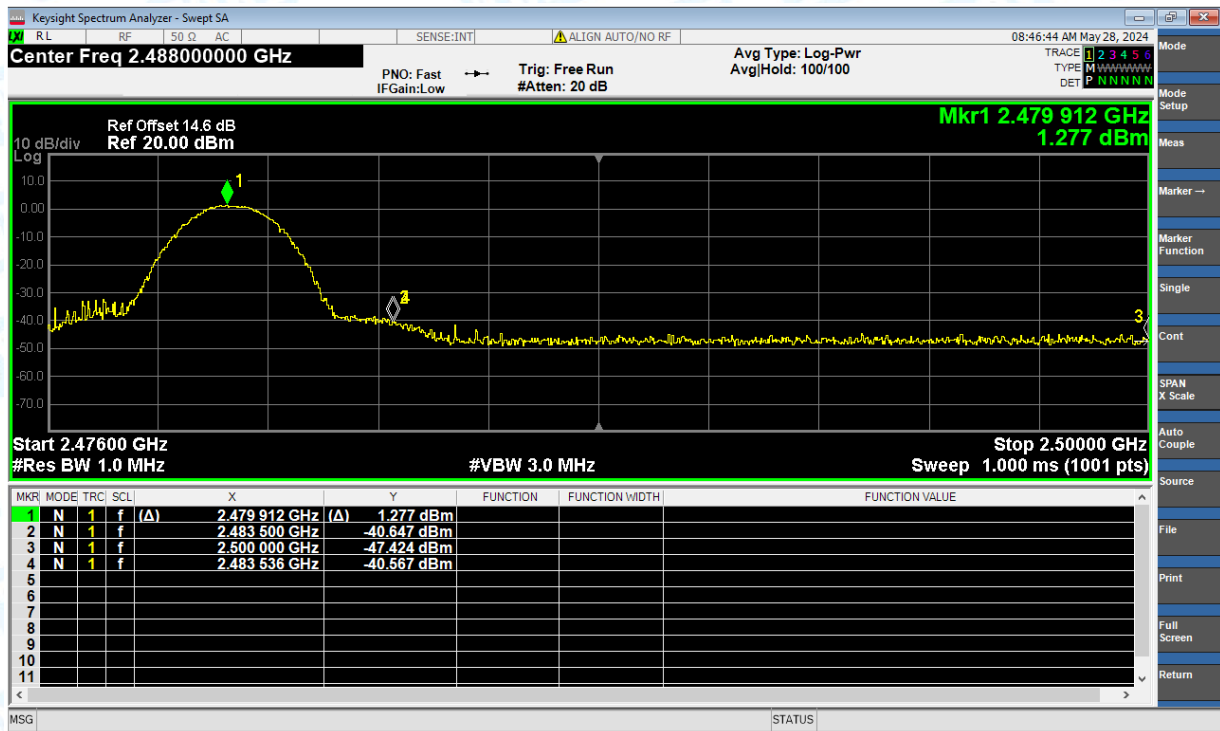
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



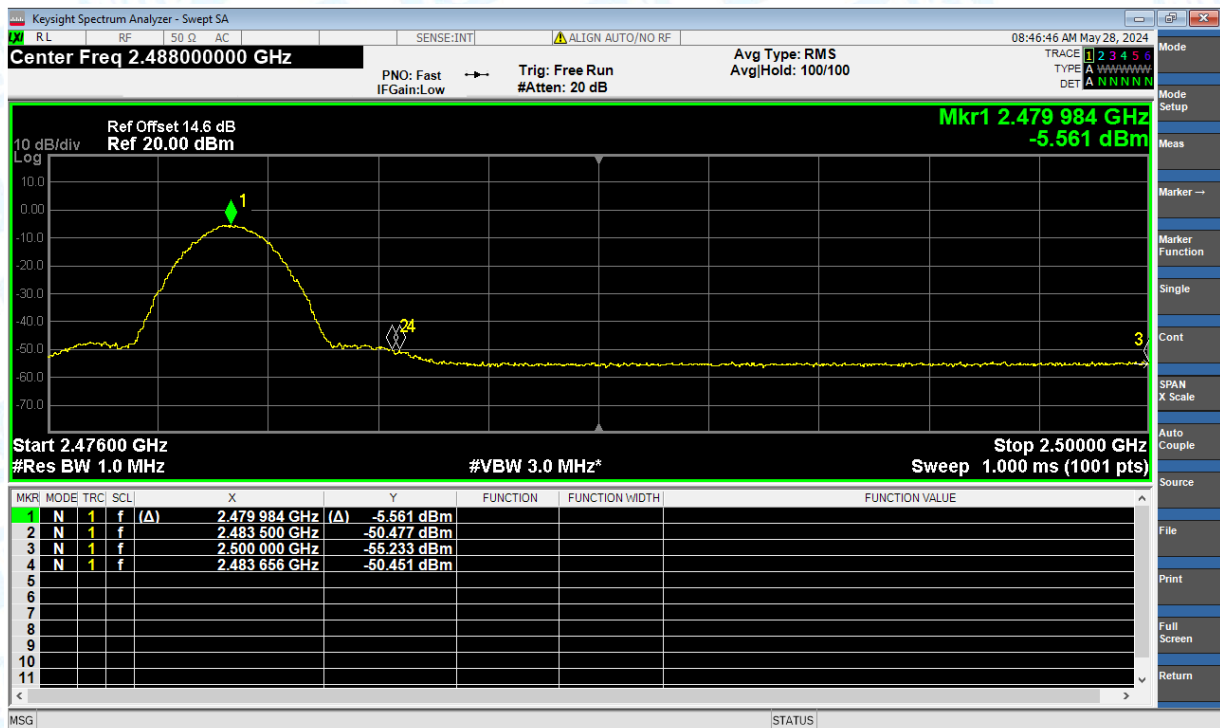
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



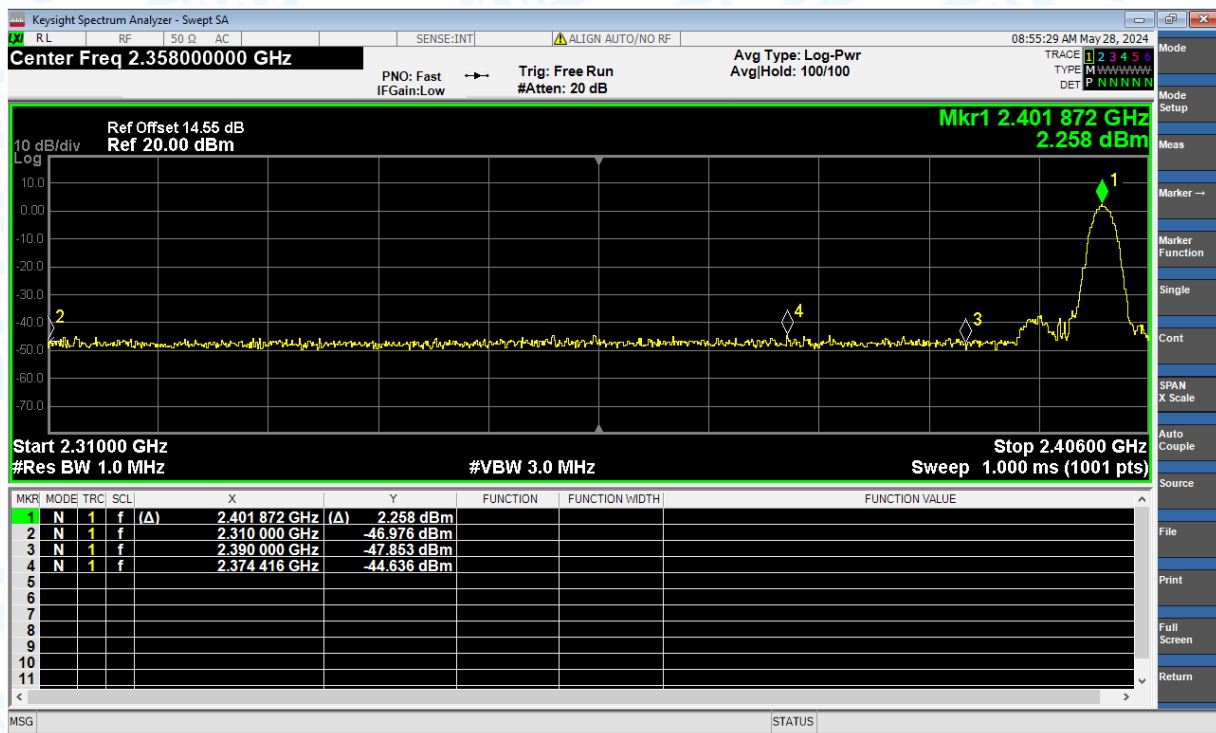
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



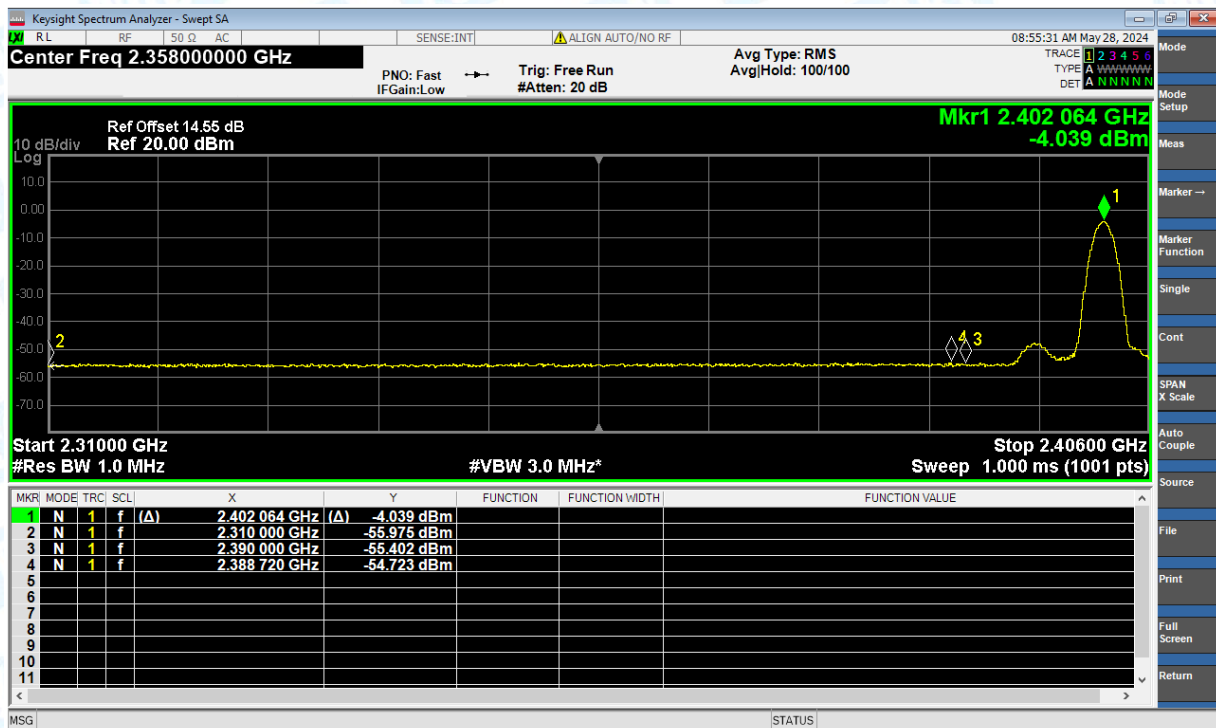
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



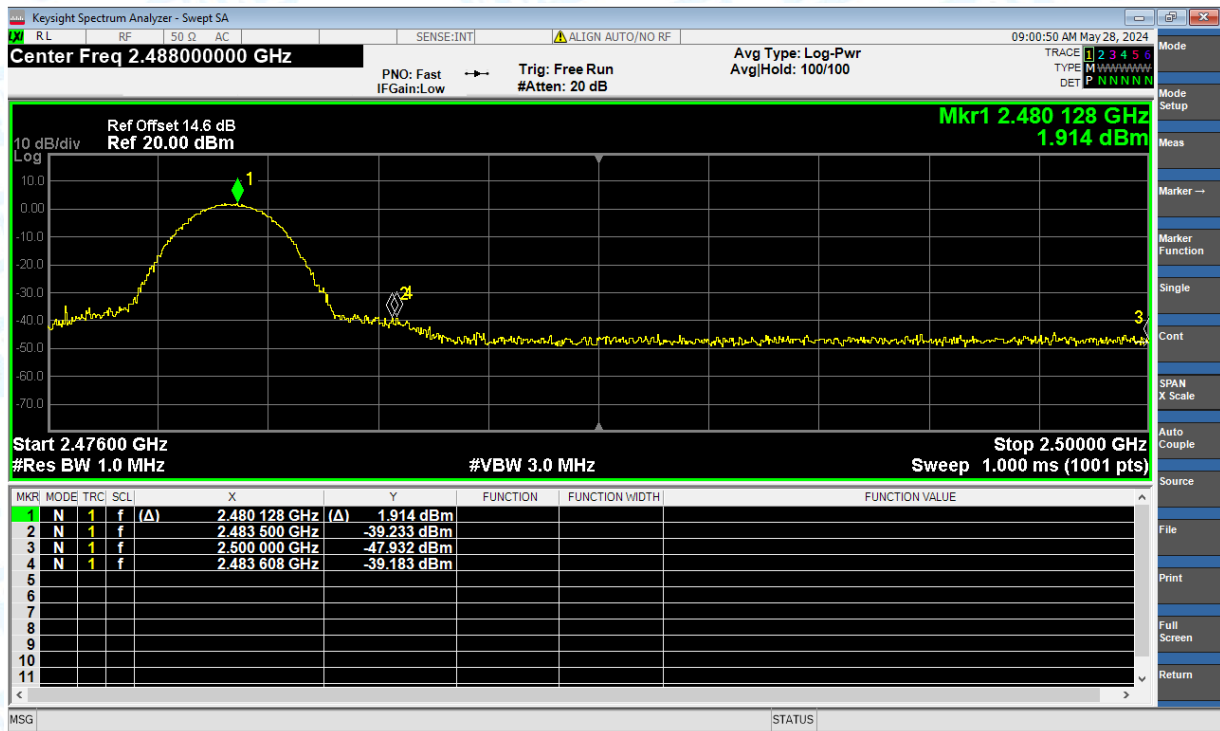
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



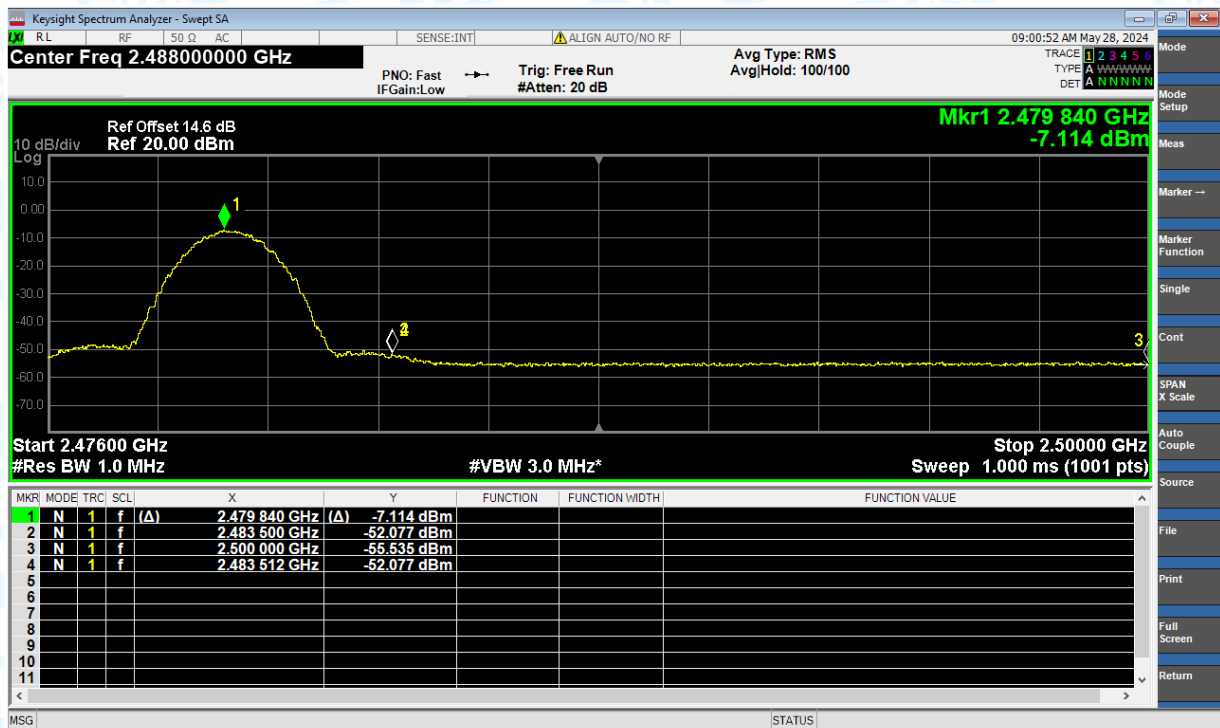
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

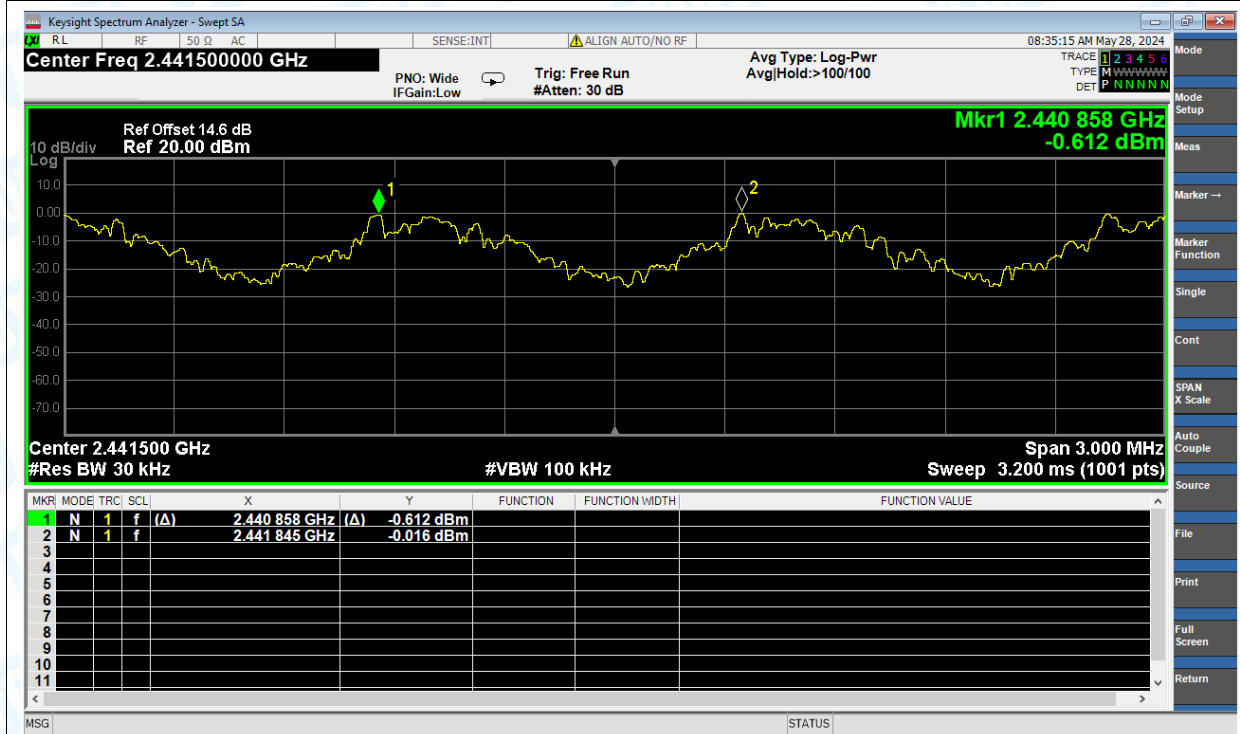


9. Carrier Frequencies Separation

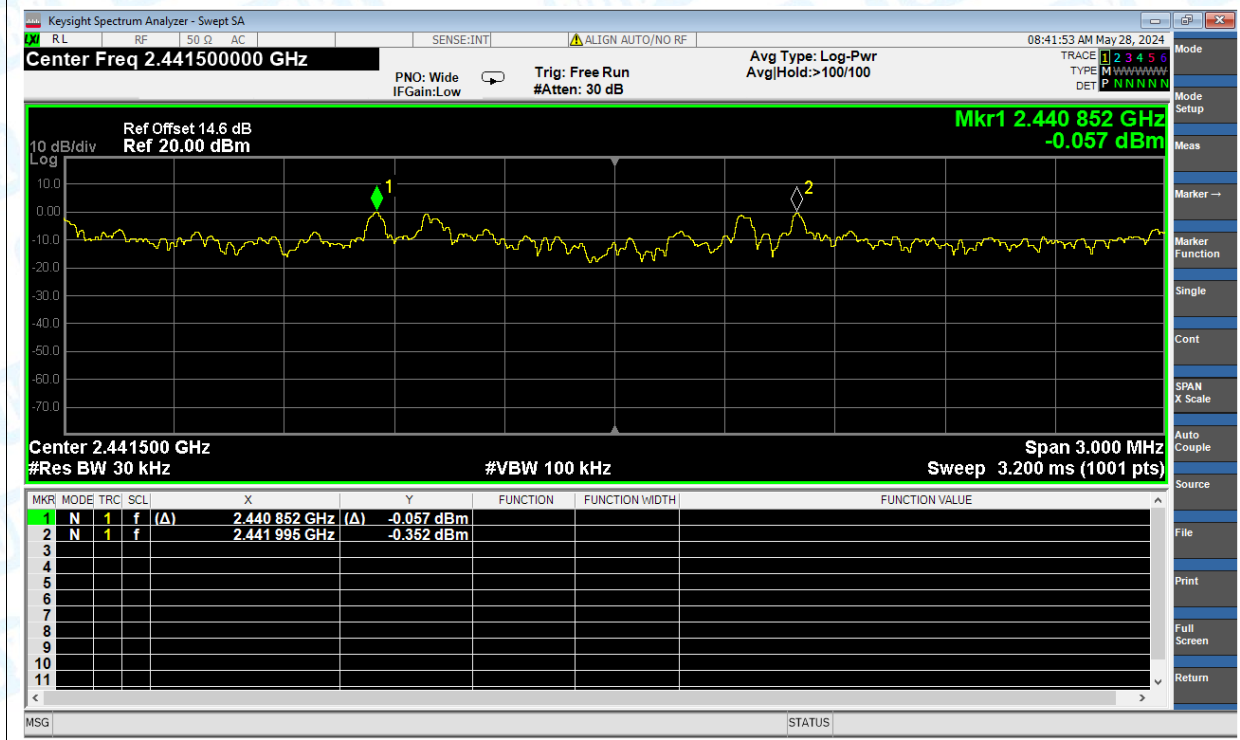
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.858	2441.845	0.987	0.025	Pass
NVNT	2-DH1	Ant1	2440.852	2441.995	1.143	0.025	Pass
NVNT	3-DH1	Ant1	2440.99	2442.001	1.011	0.827	Pass

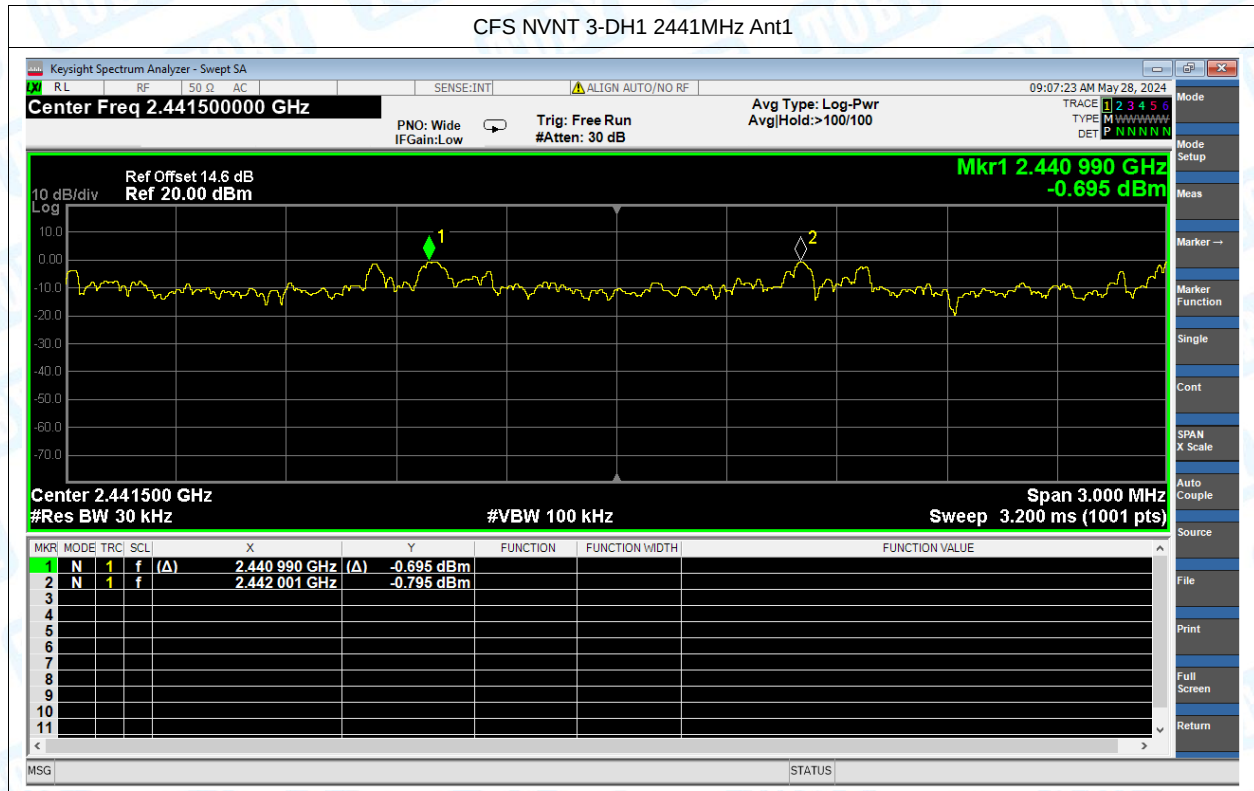
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



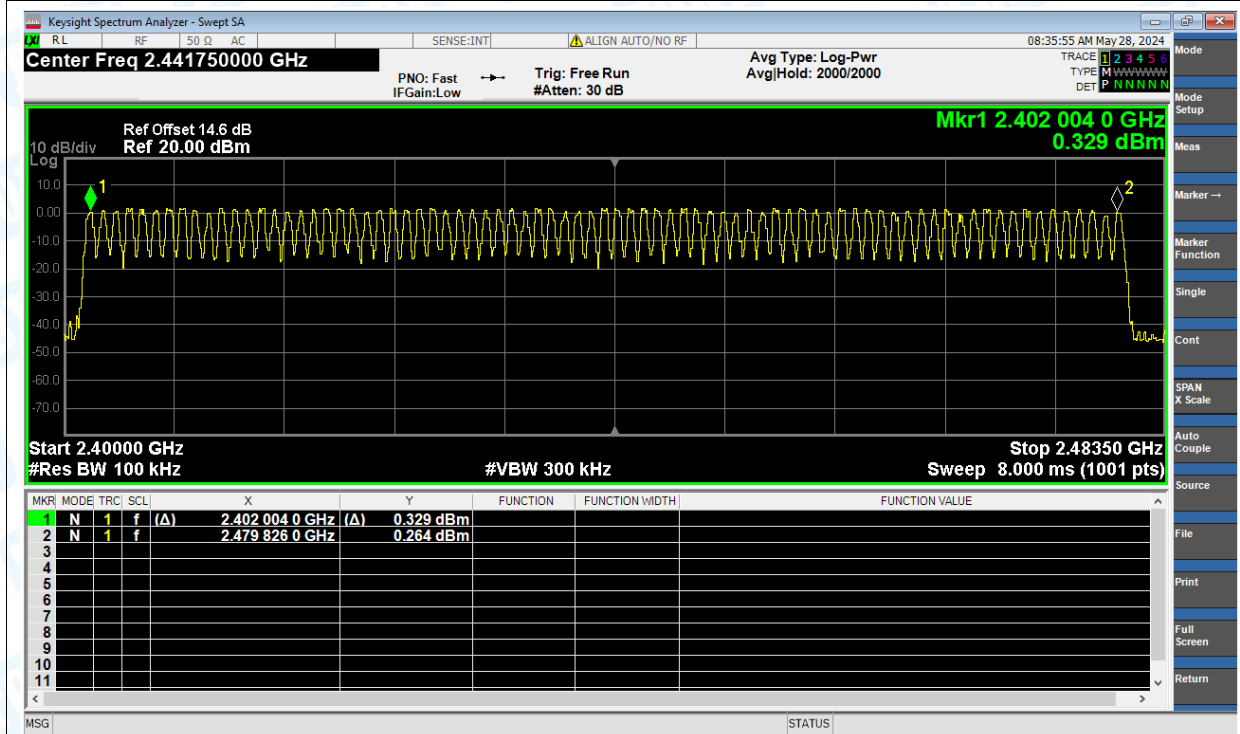


10. Number of Hopping Channel

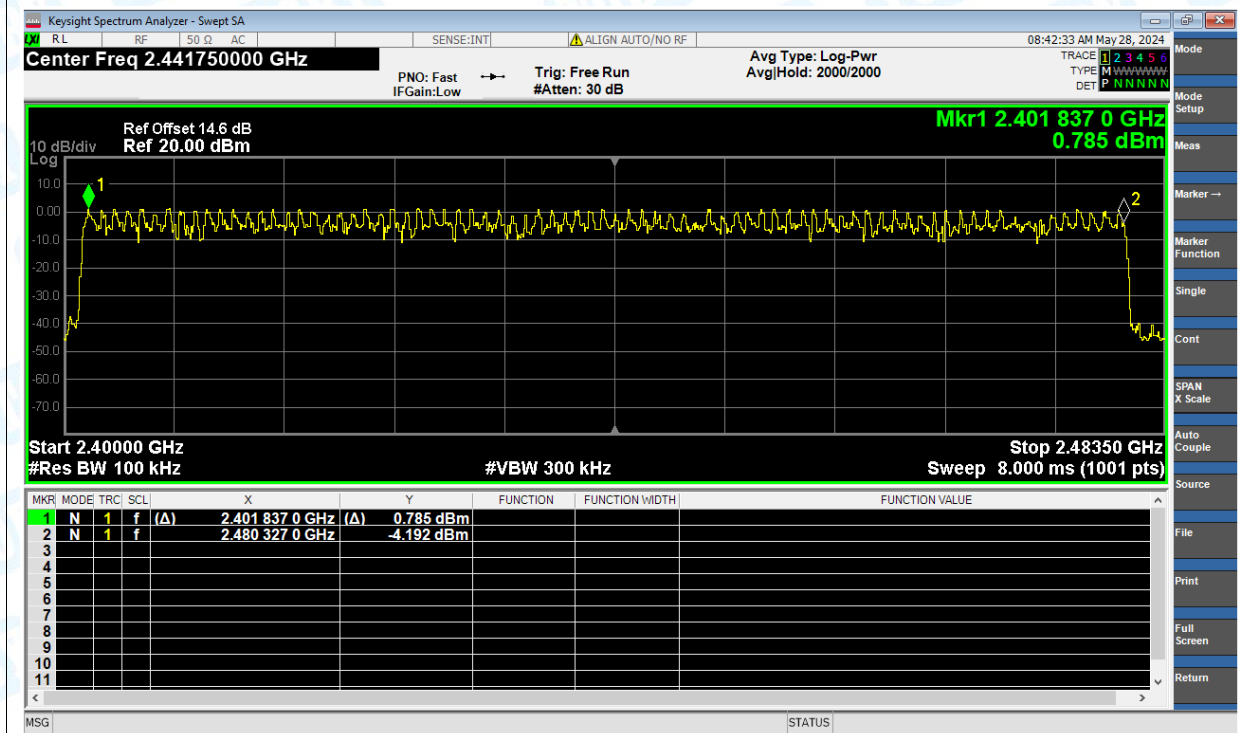
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



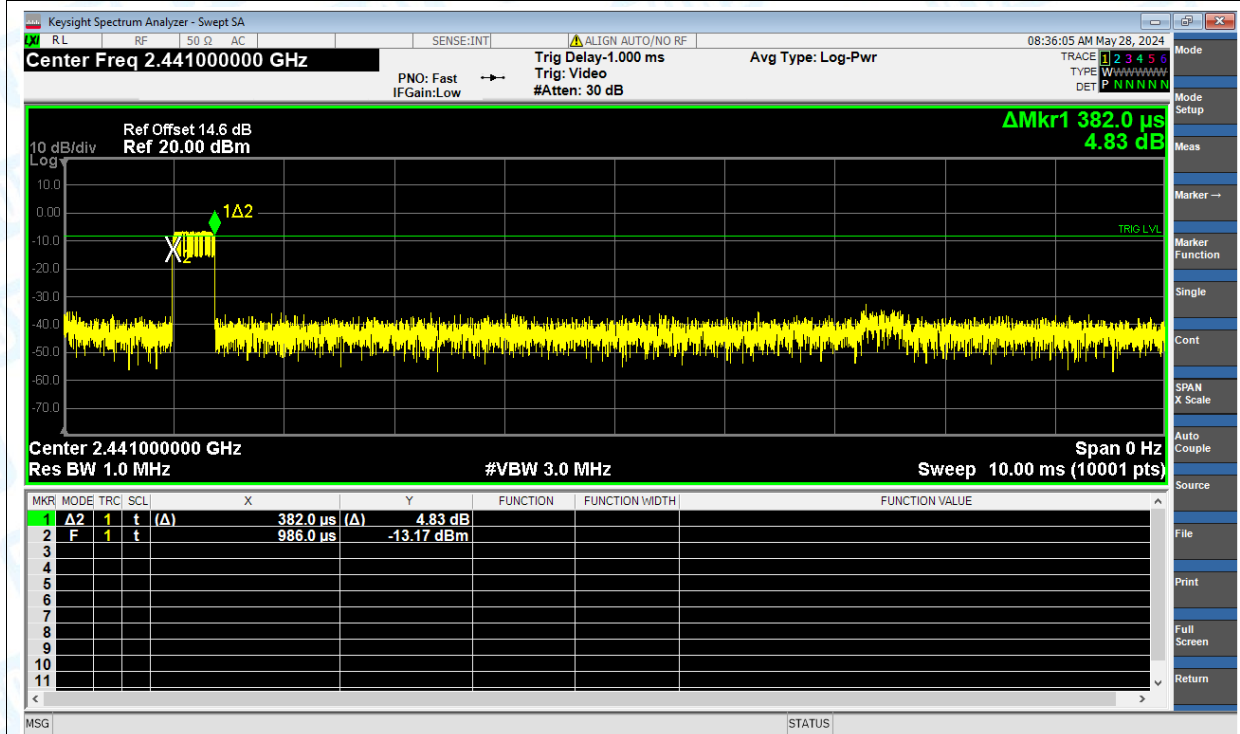


11. Dwell Time

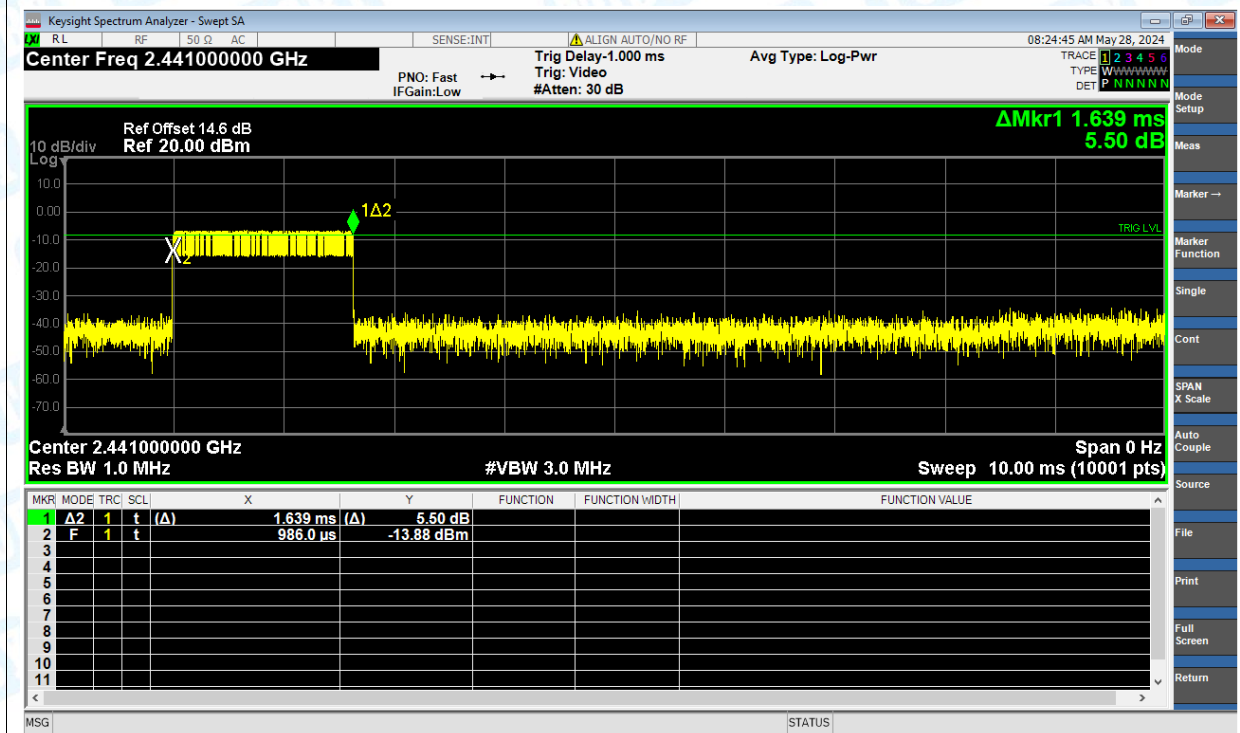
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.893	308.587	31600	400	Pass

Test Graphs

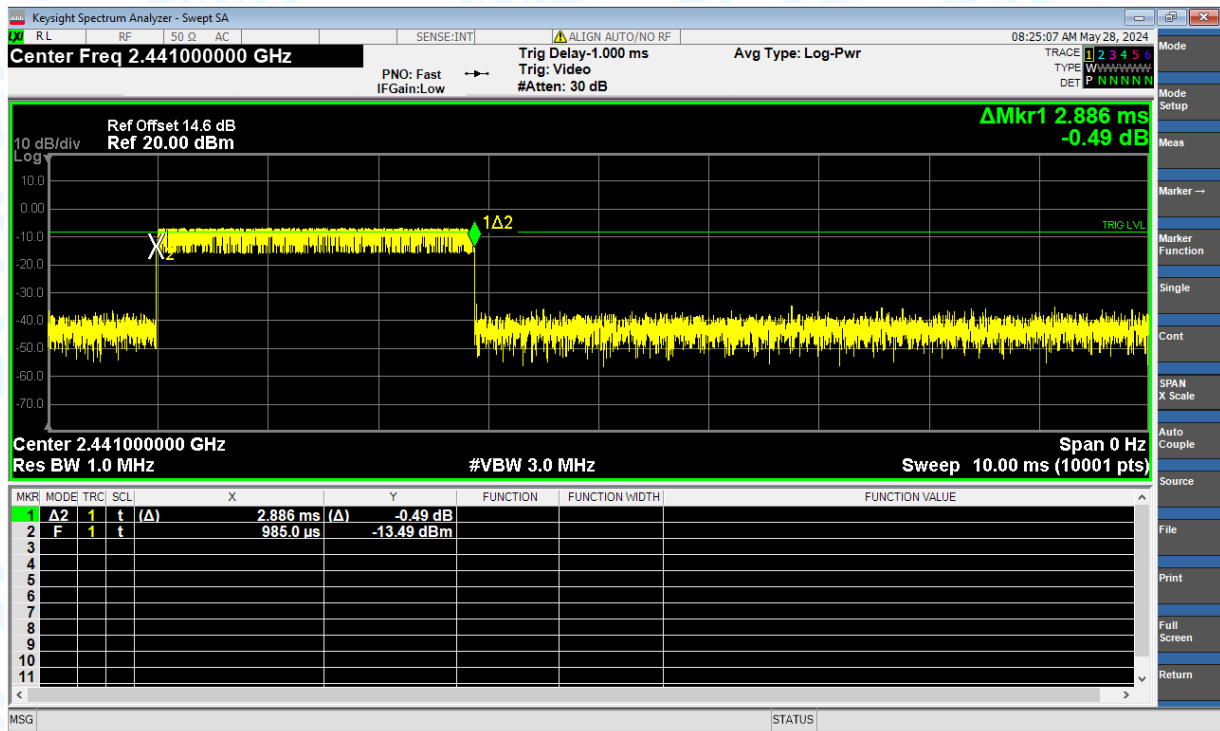
Dwell NVNT 1-DH1 2441MHz Ant1



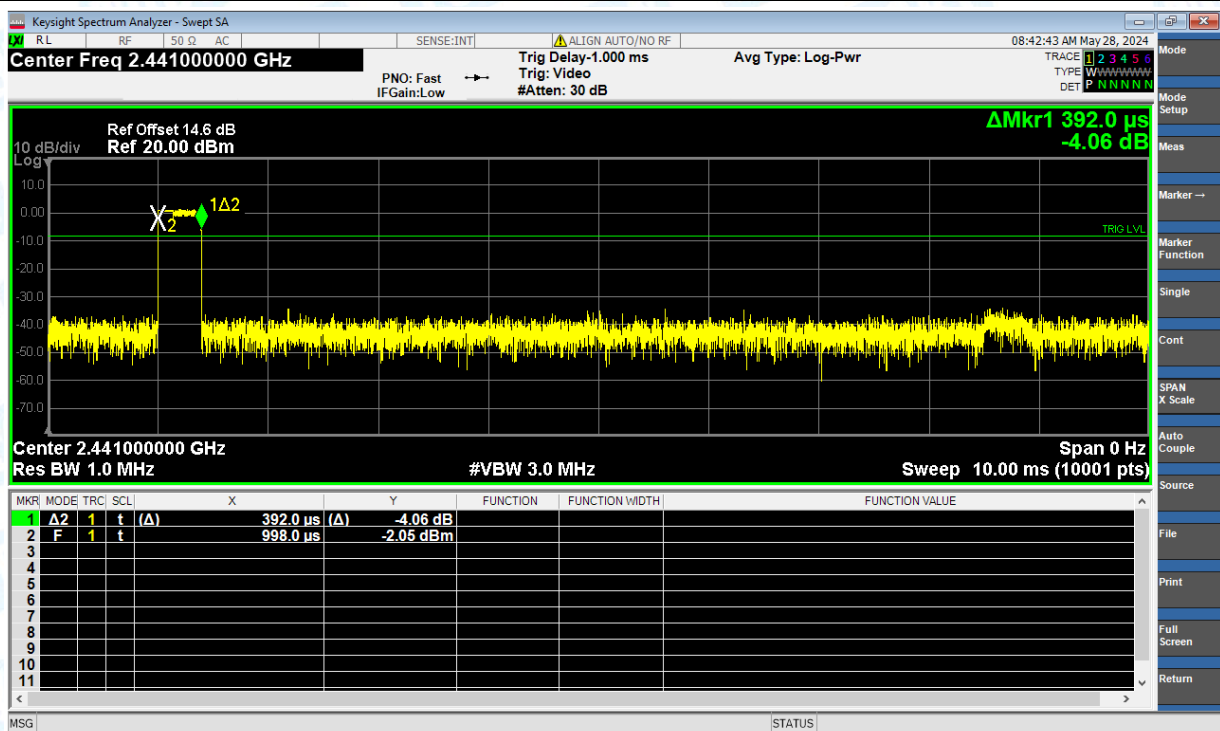
Dwell NVNT 1-DH3 2441MHz Ant1



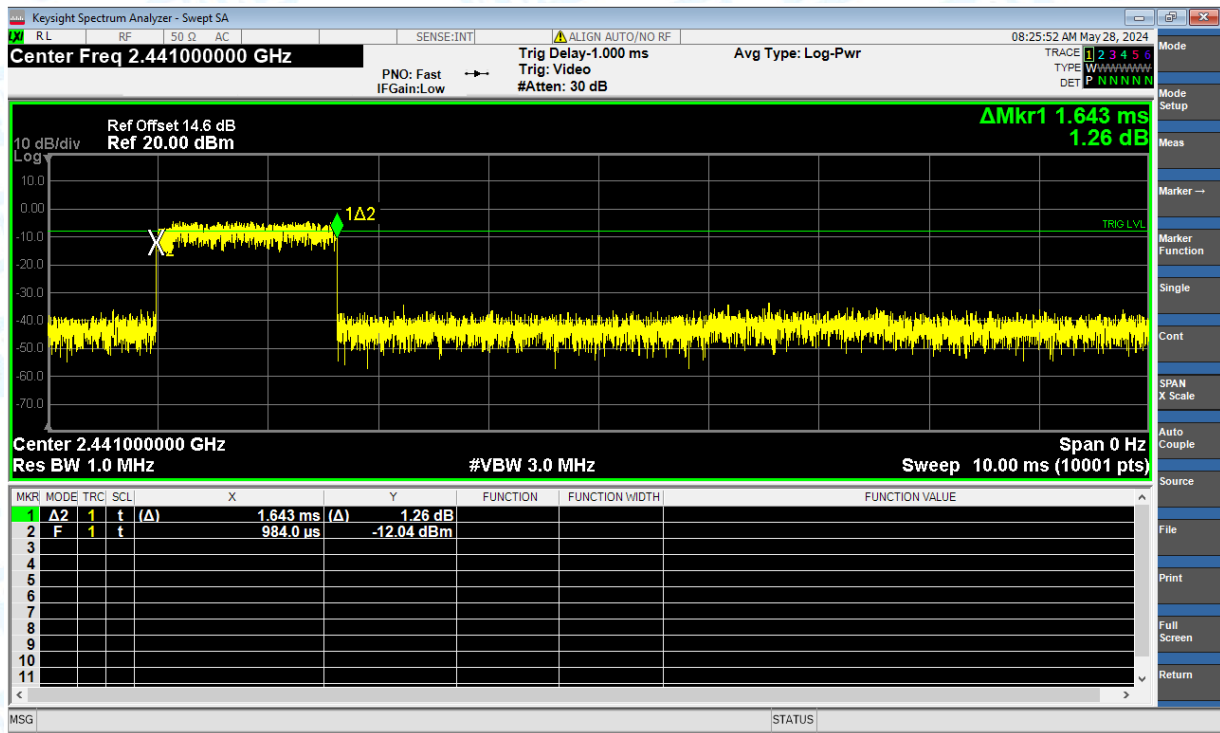
Dwell NVNT 1-DH5 2441MHz Ant1



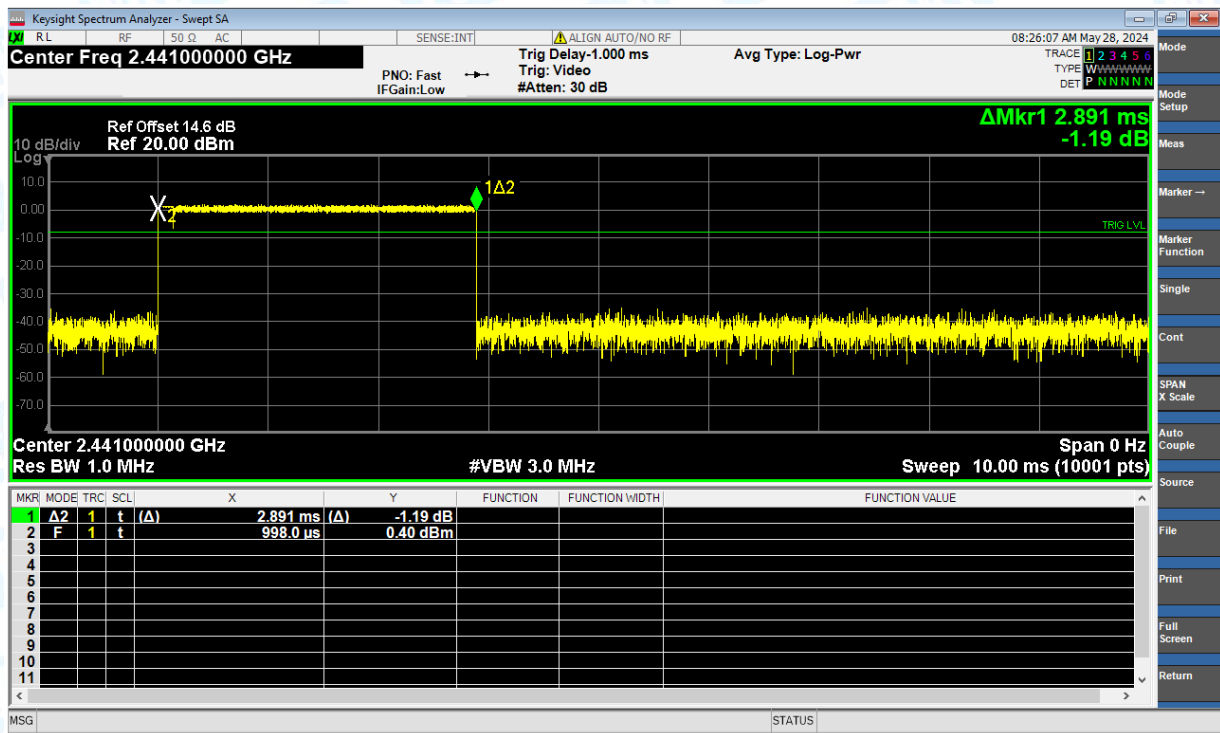
Dwell NVNT 2-DH1 2441MHz Ant1



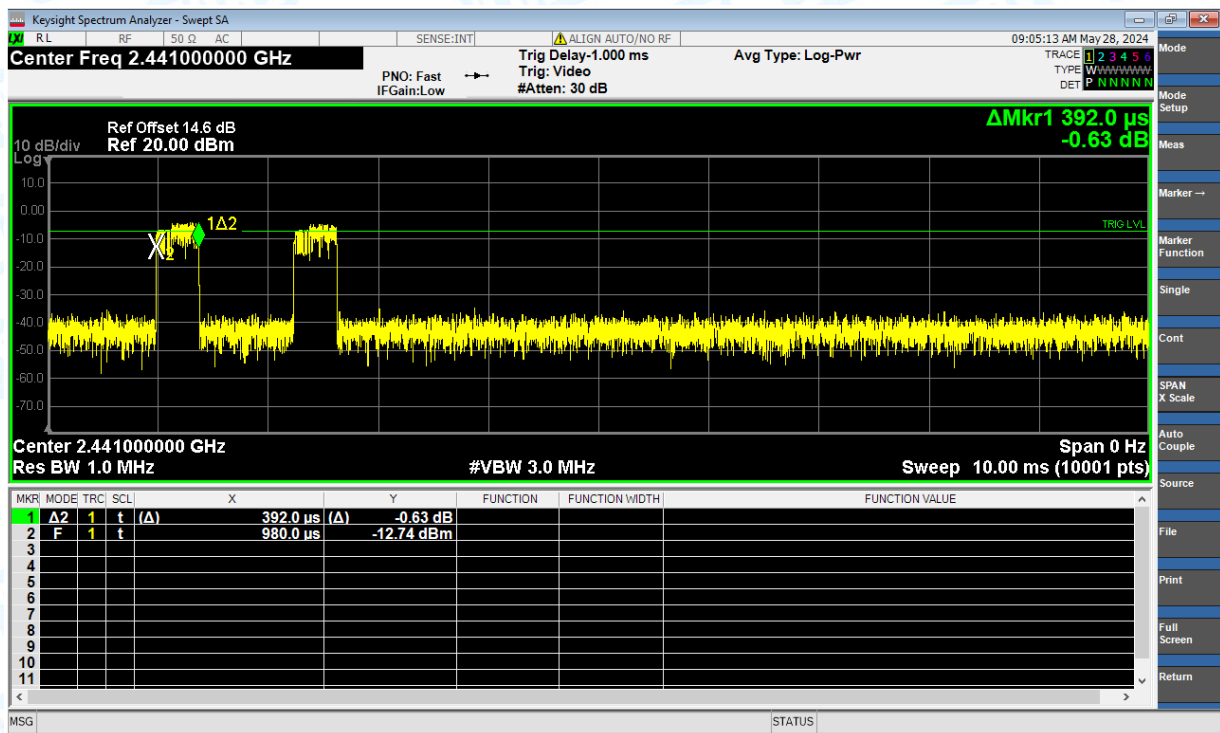
Dwell NVNT 2-DH3 2441MHz Ant1



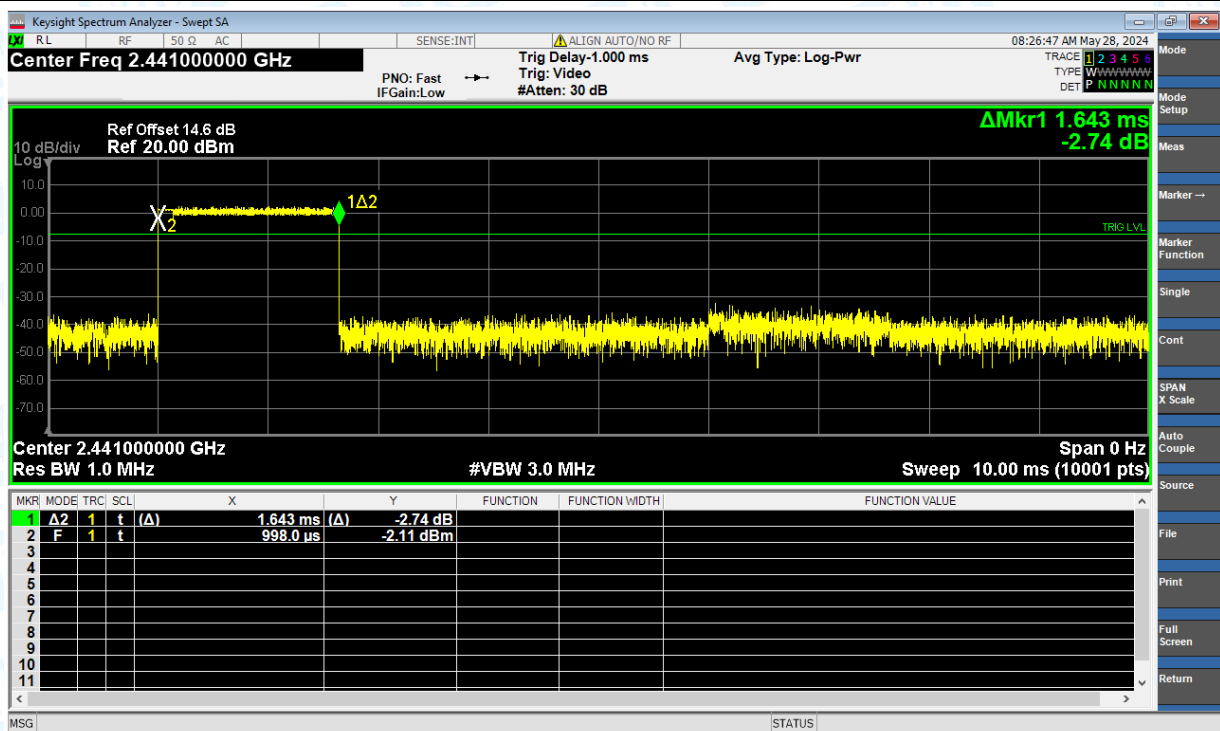
Dwell NVNT 2-DH5 2441MHz Ant1

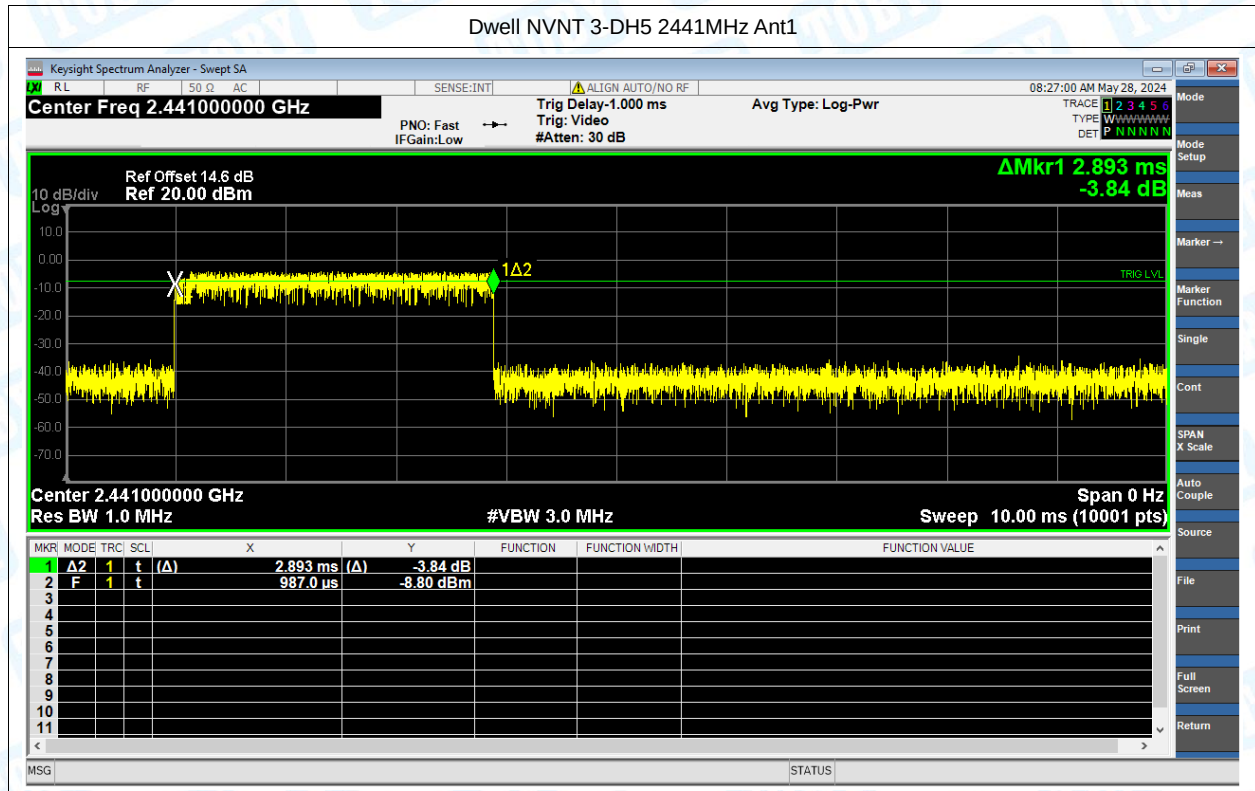


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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