

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Portable Gaming Computer(Tablet computer)
Test Model:	AYANEO 3
Sample ID:	HC-C-202501-0033-01-03-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 11.55V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202501-0033-11 The report only show the worst case data.	

Contents

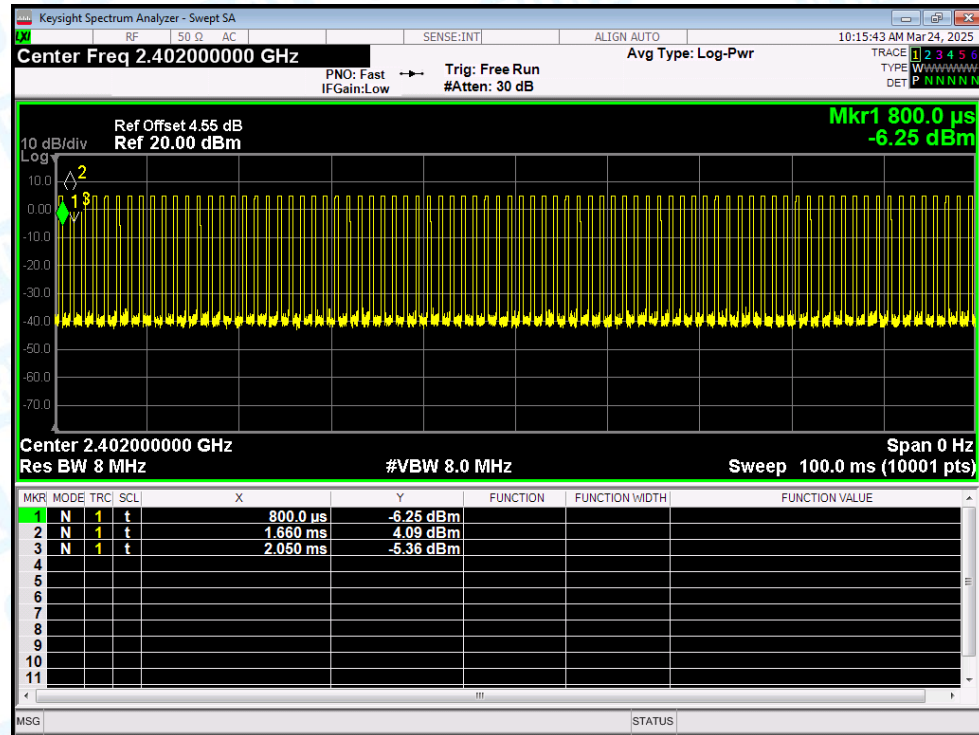
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1. Duty Cycle

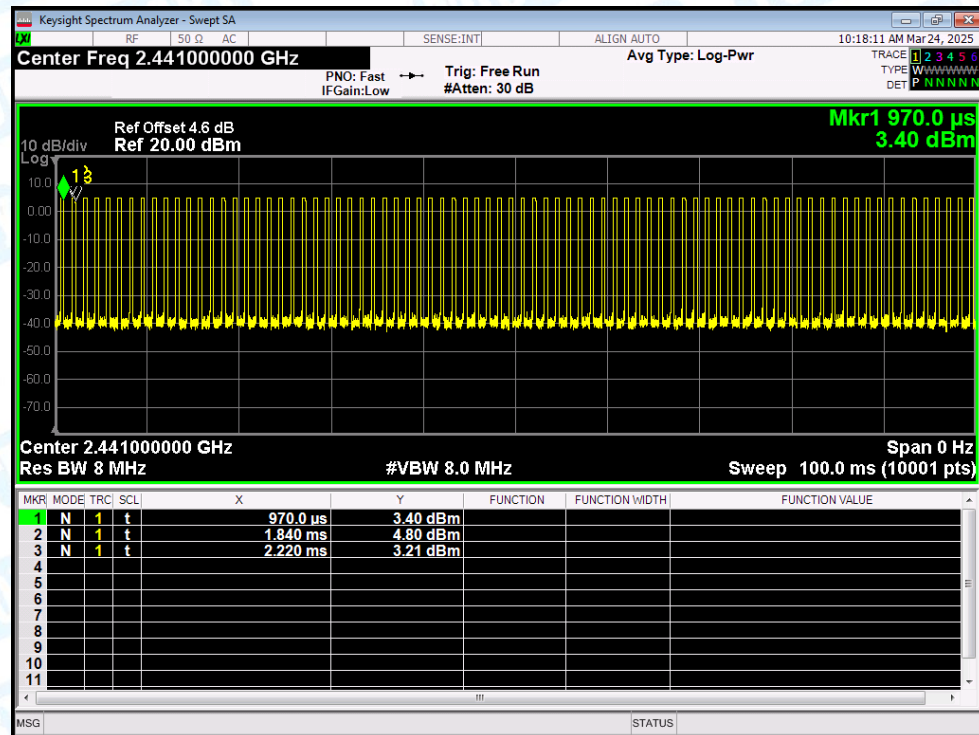
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56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

Test Graphs

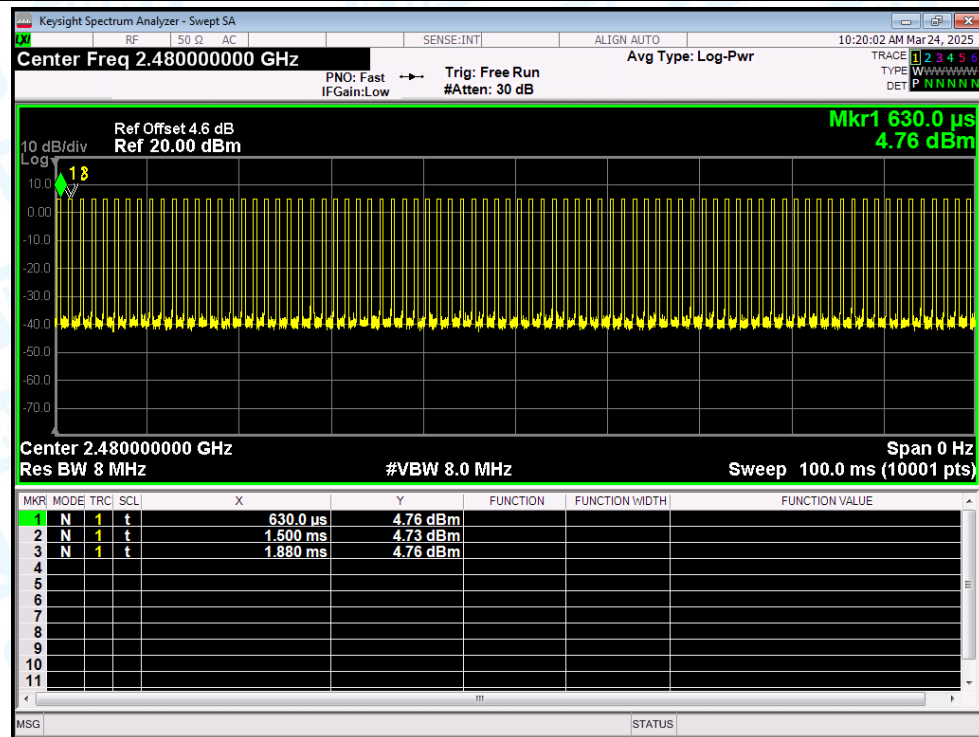
Duty Cycle NVNT 1-DH1 2402MHz Ant1



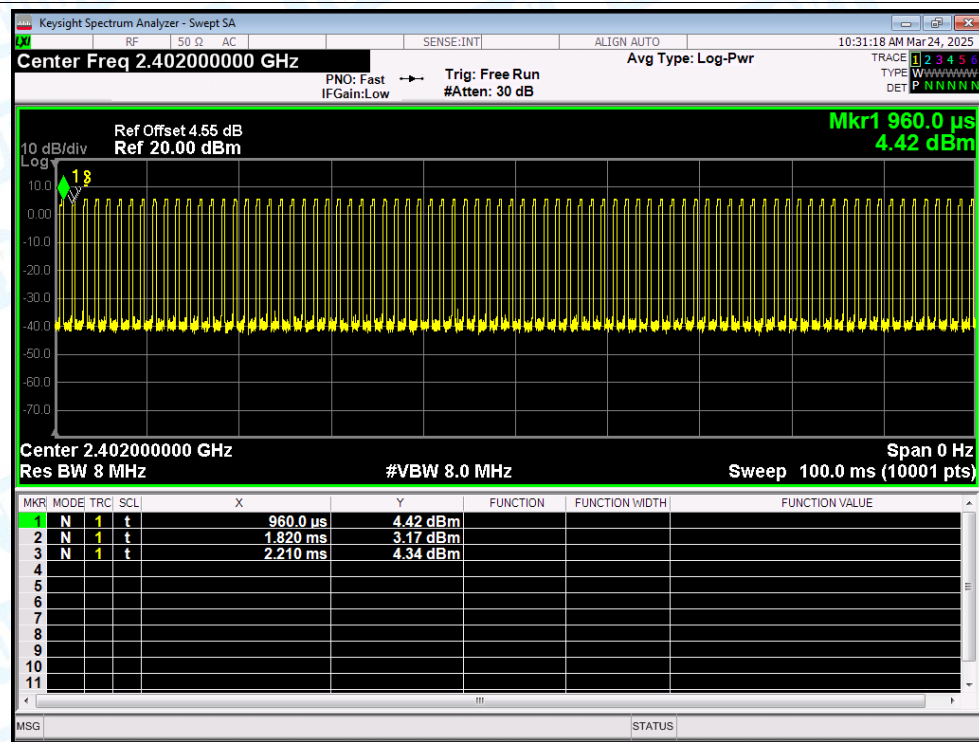
Duty Cycle NVNT 1-DH1 2441MHz Ant1



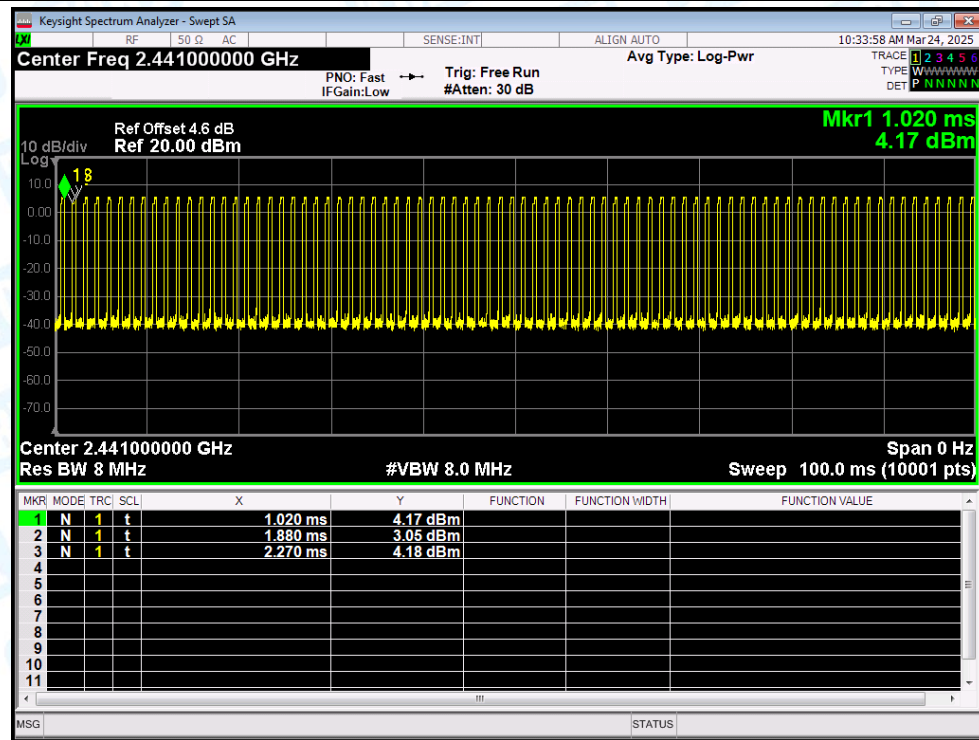
Duty Cycle NVNT 1-DH1 2480MHz Ant1



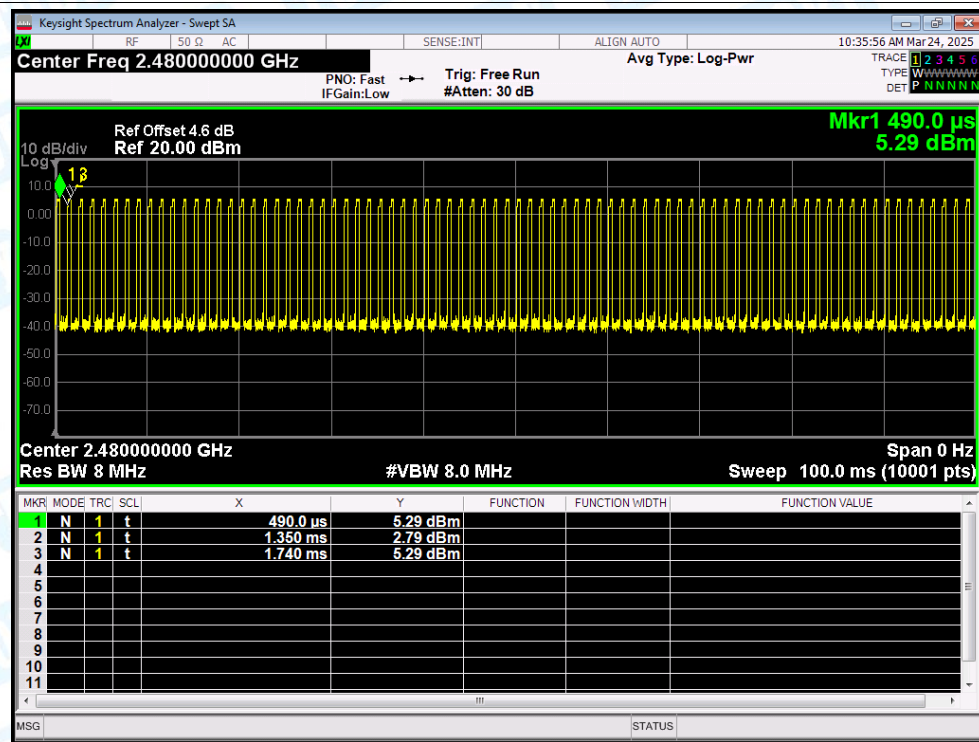
Duty Cycle NVNT 2-DH1 2402MHz Ant1



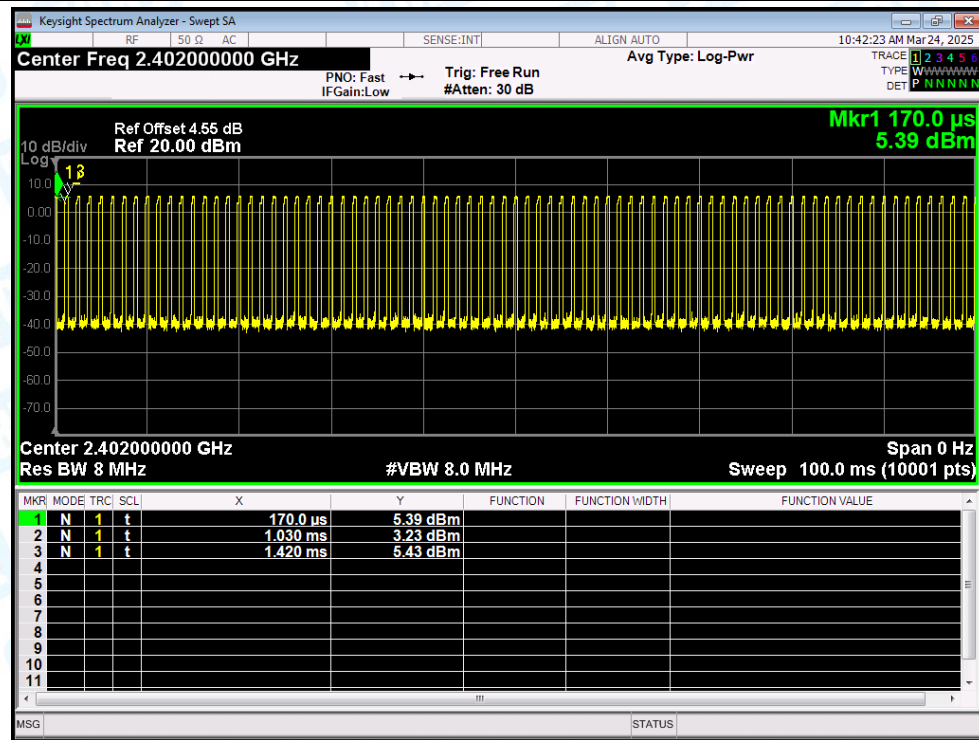
Duty Cycle NVNT 2-DH1 2441MHz Ant1



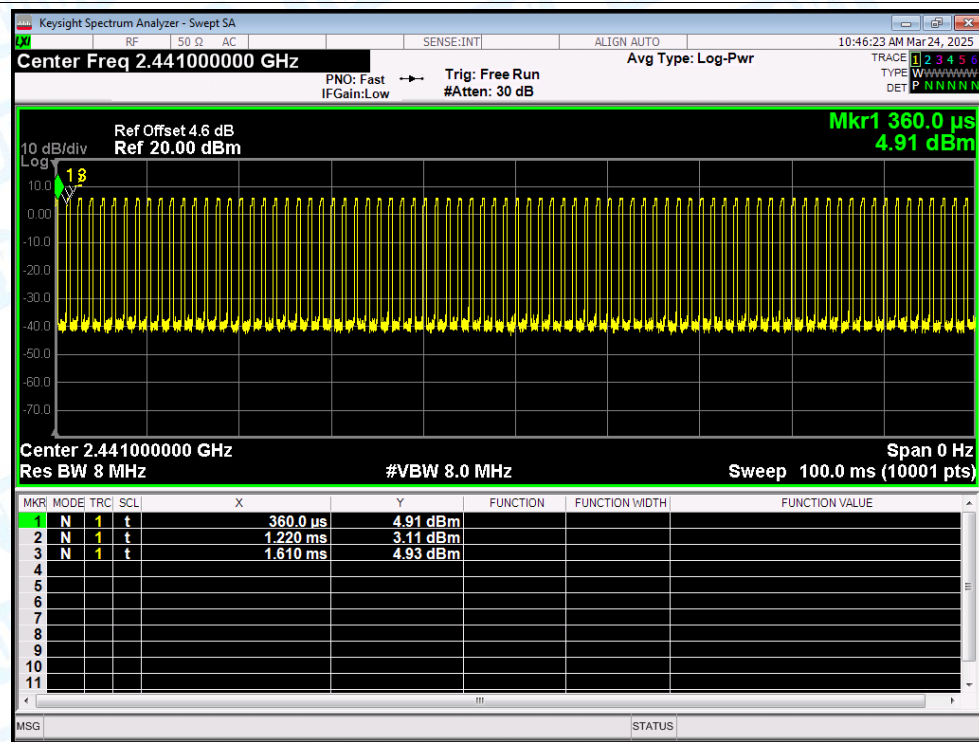
Duty Cycle NVNT 2-DH1 2480MHz Ant1

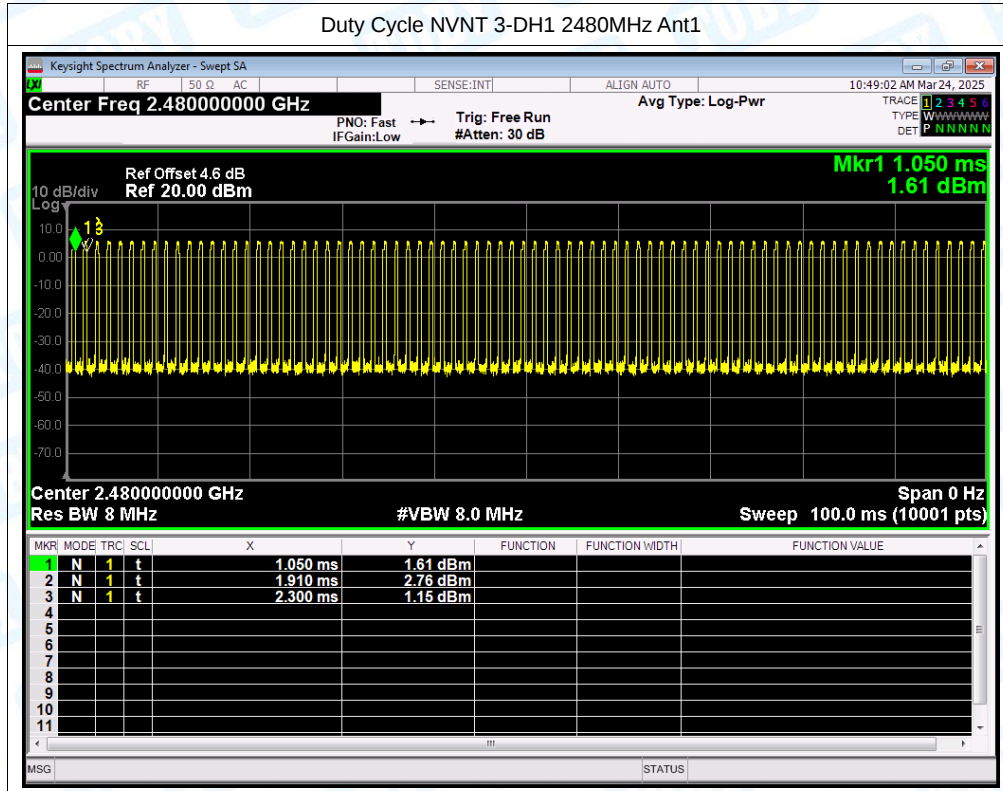


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



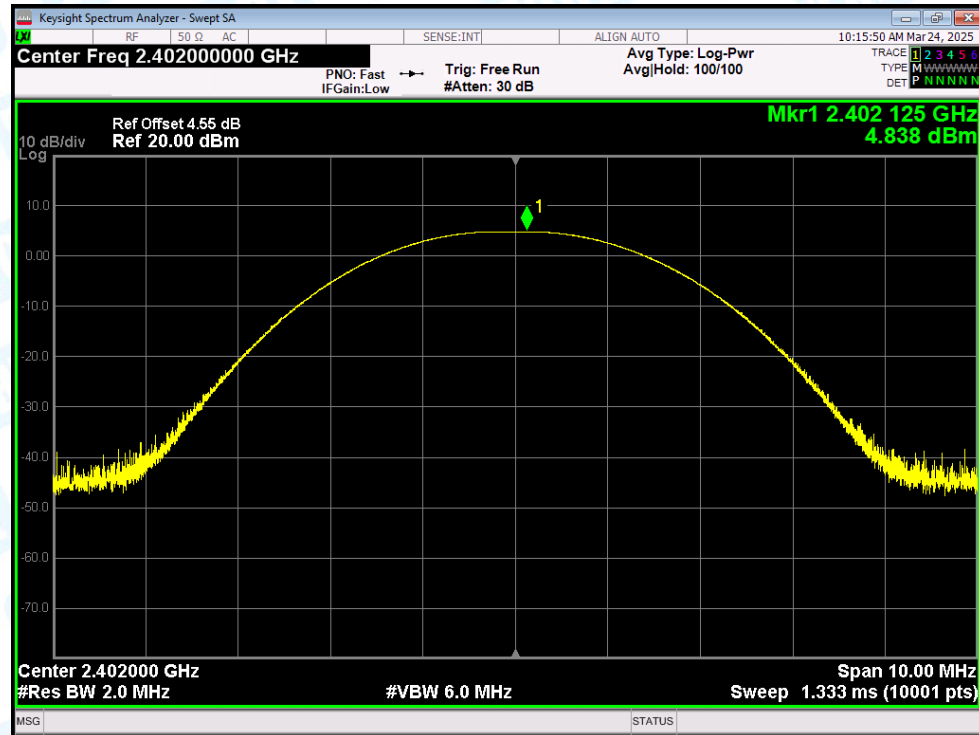


2. Maximum Conducted Peak Output Power

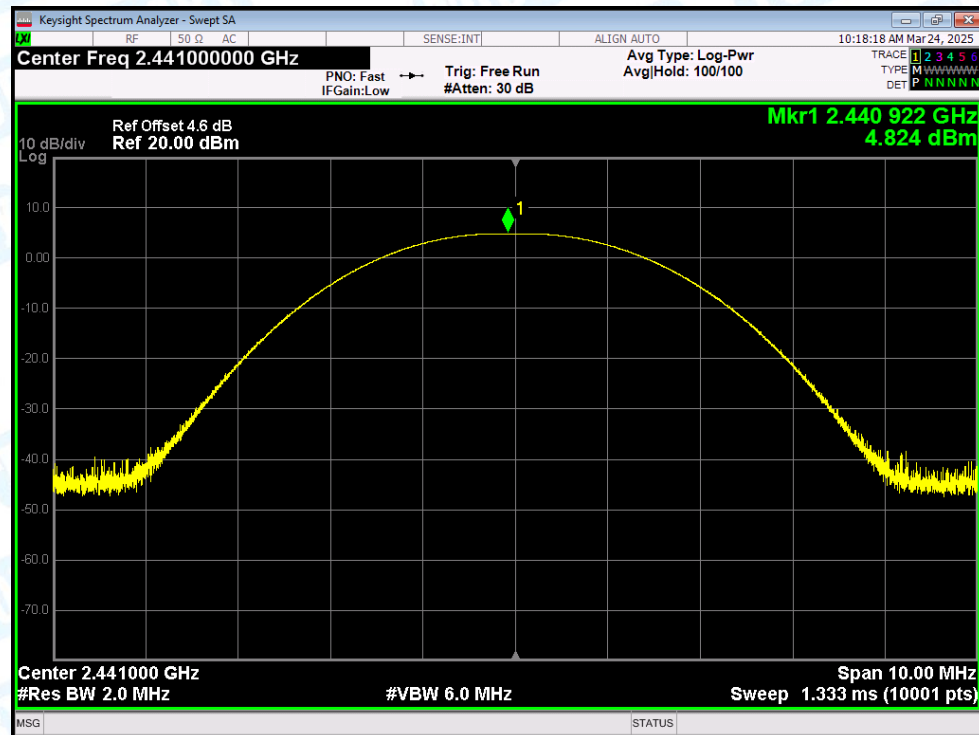
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	4.838	21	Pass
NVNT	1-DH1	2441	Ant1	4.824	21	Pass
NVNT	1-DH1	2480	Ant1	4.762	21	Pass
NVNT	2-DH1	2402	Ant1	4.973	21	Pass
NVNT	2-DH1	2441	Ant1	4.953	21	Pass
NVNT	2-DH1	2480	Ant1	4.825	21	Pass
NVNT	3-DH1	2402	Ant1	5.054	21	Pass
NVNT	3-DH1	2441	Ant1	5.155	21	Pass
NVNT	3-DH1	2480	Ant1	4.956	21	Pass

Test Graphs

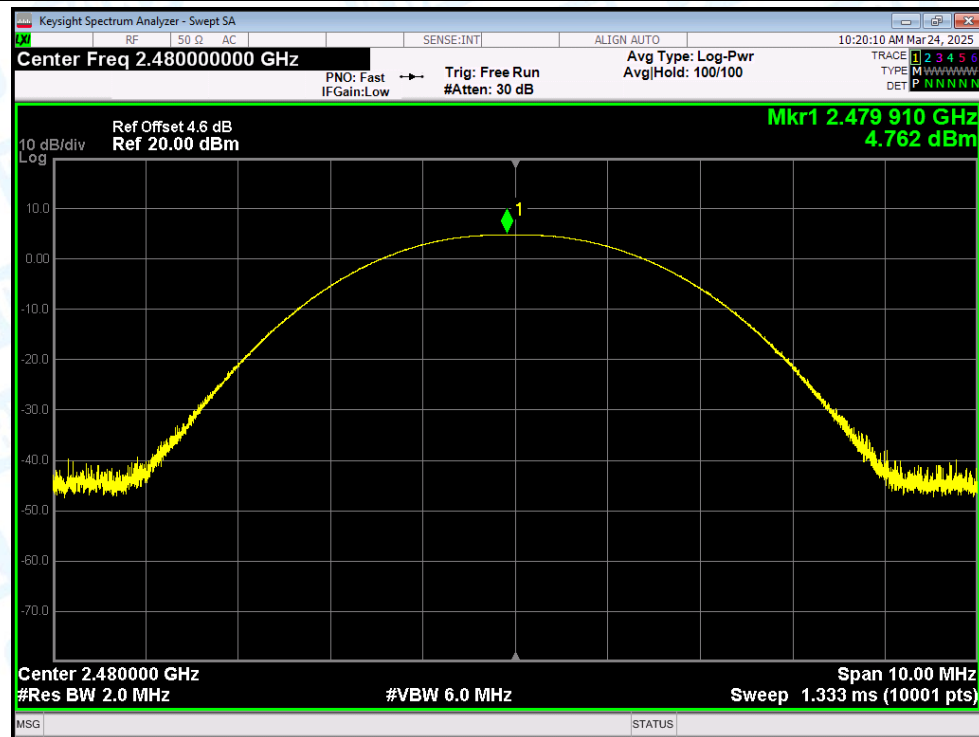
Power NVNT 1-DH1 2402MHz Ant1



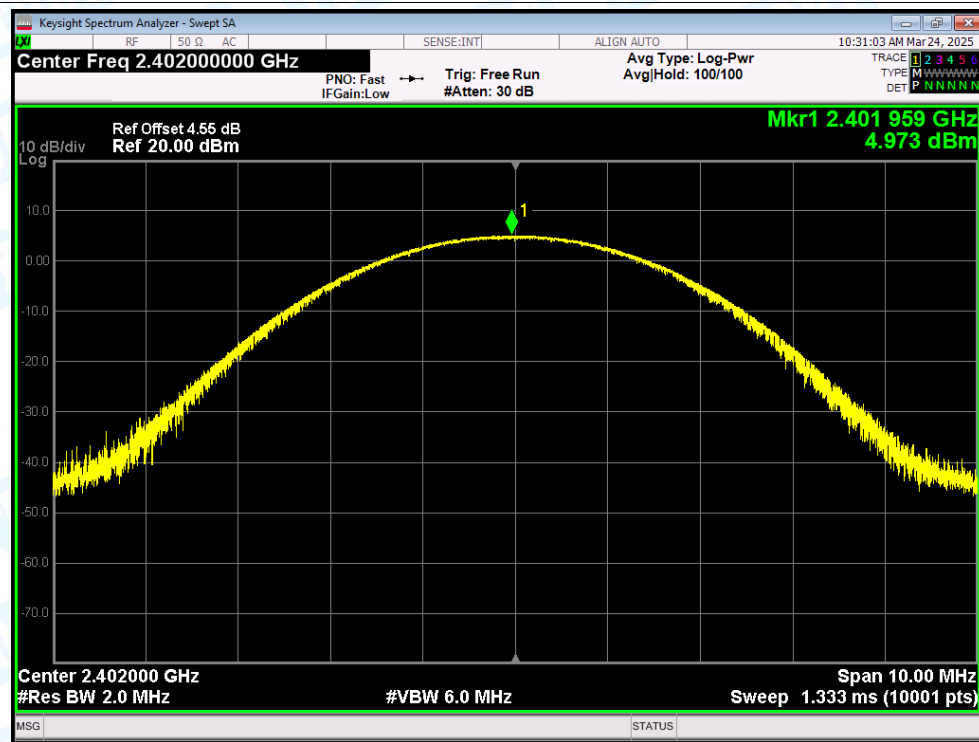
Power NVNT 1-DH1 2441MHz Ant1



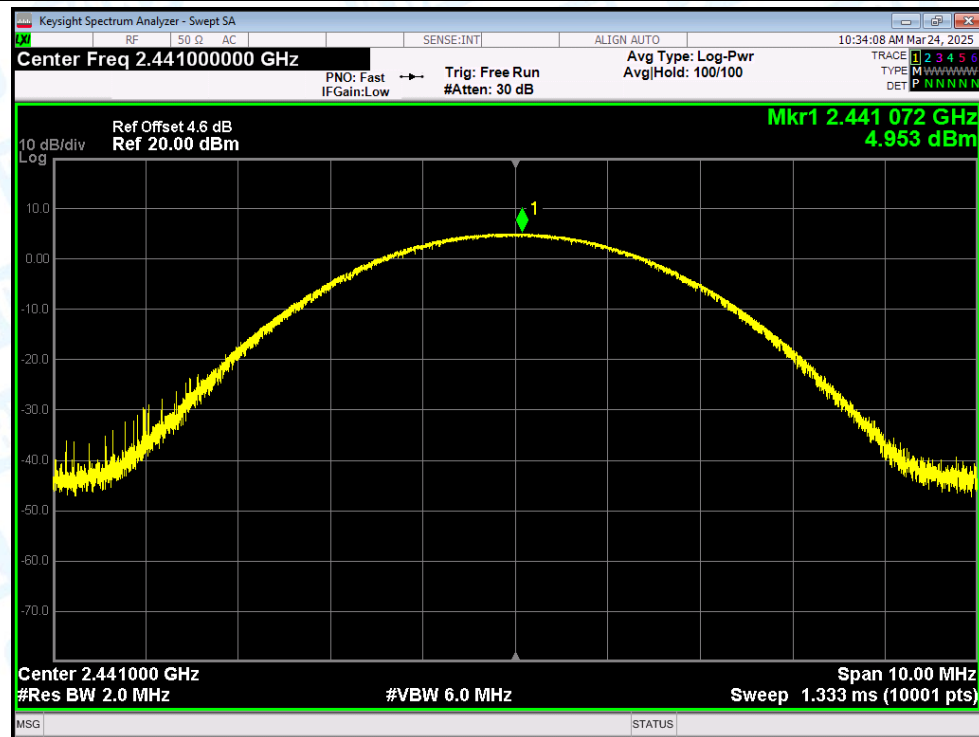
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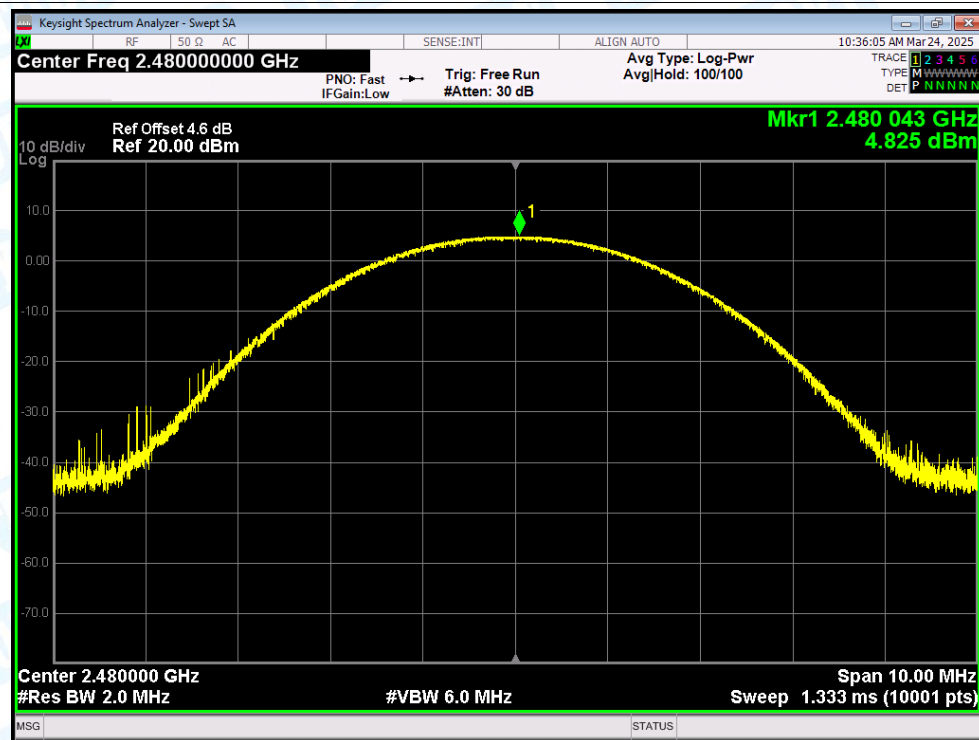
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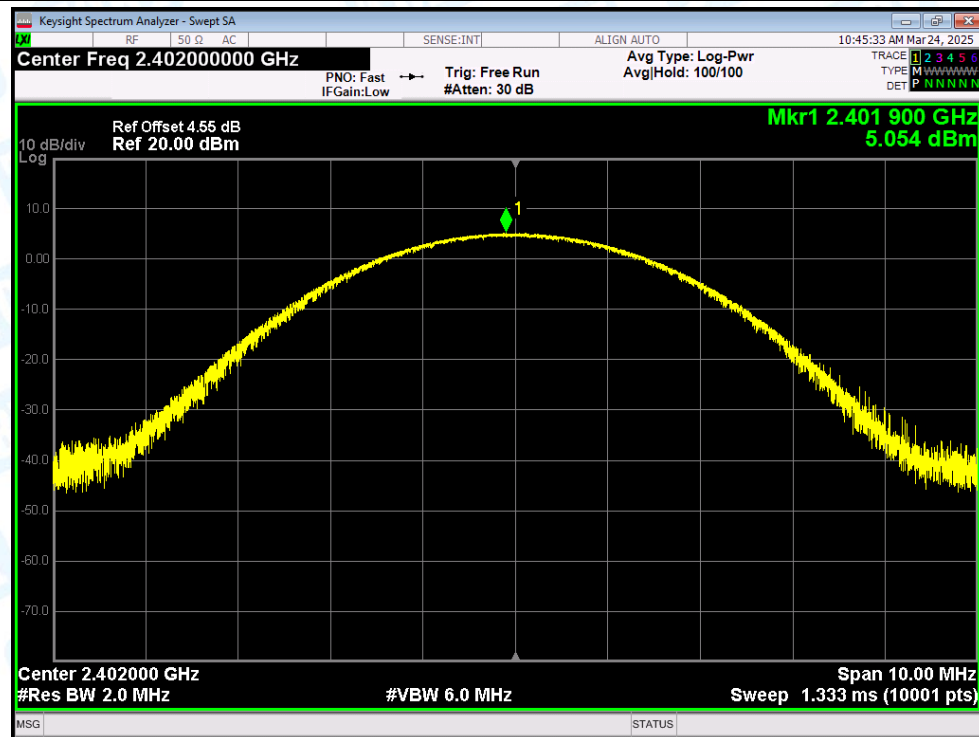
Power NVNT 2-DH1 2441MHz Ant1



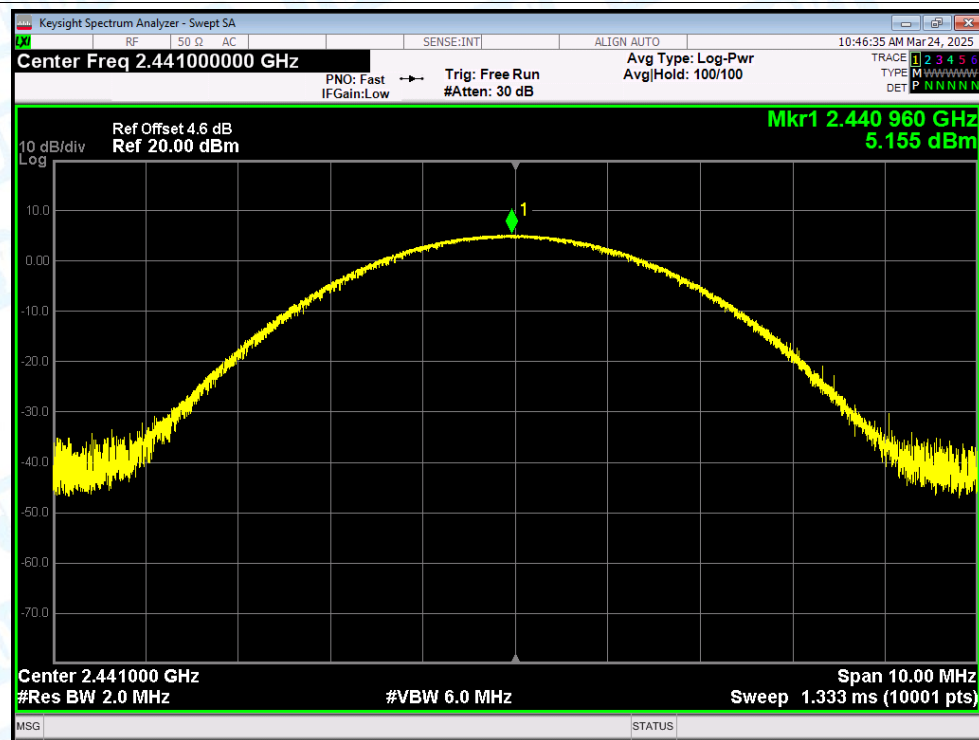
Power NVNT 2-DH1 2480MHz Ant1

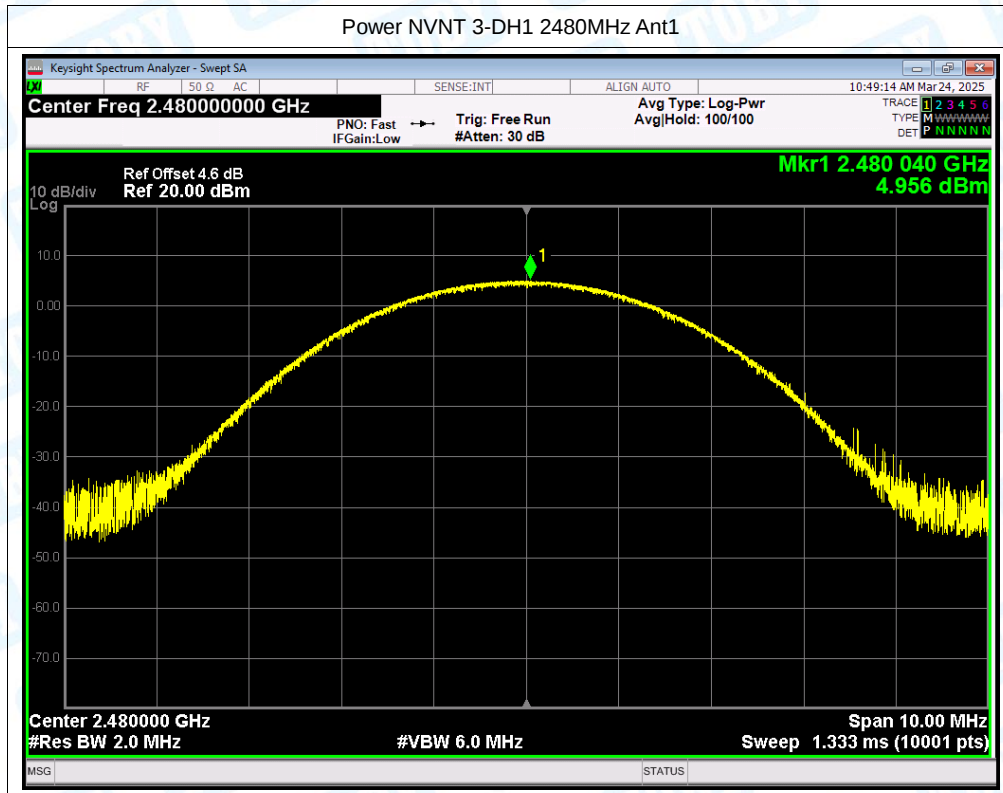


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



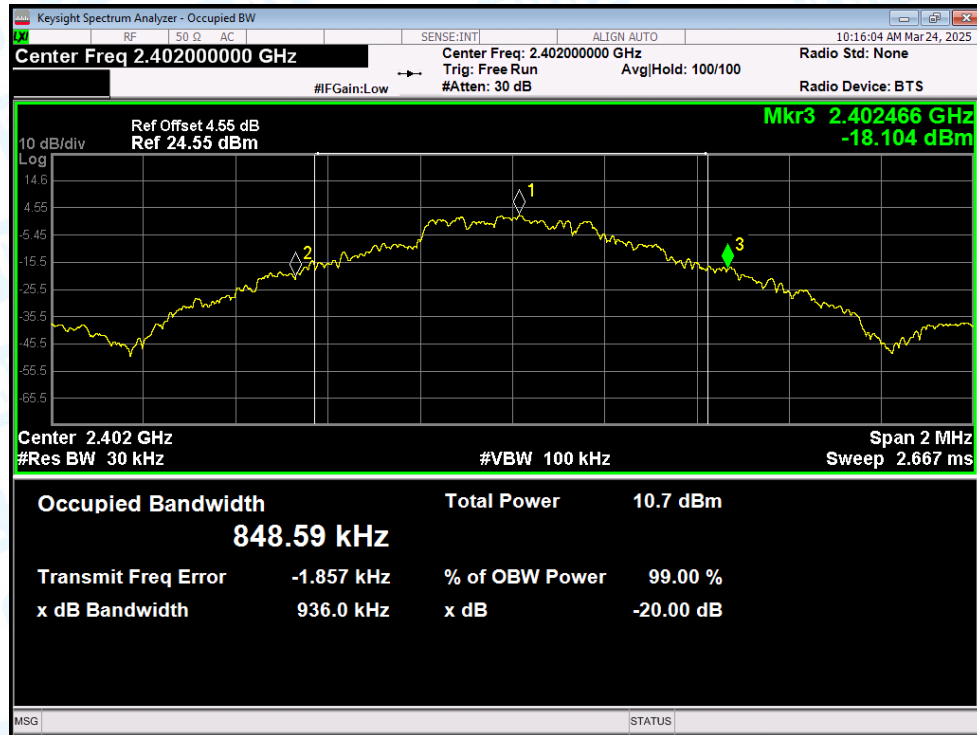


3. -20dB Bandwidth

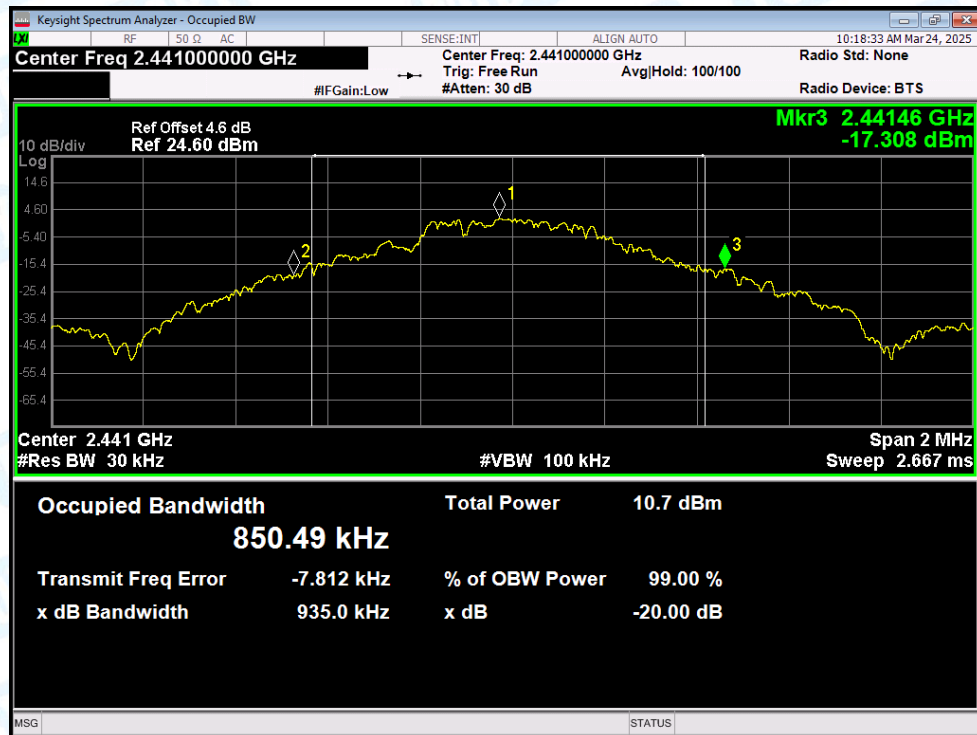
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.94	----	Pass
NVNT	1-DH1	2441	Ant1	0.94	----	Pass
NVNT	1-DH1	2480	Ant1	0.95	----	Pass
NVNT	2-DH1	2402	Ant1	1.46	----	Pass
NVNT	2-DH1	2441	Ant1	1.46	----	Pass
NVNT	2-DH1	2480	Ant1	1.50	----	Pass
NVNT	3-DH1	2402	Ant1	1.46	----	Pass
NVNT	3-DH1	2441	Ant1	1.46	----	Pass
NVNT	3-DH1	2480	Ant1	1.46	----	Pass

Test Graphs

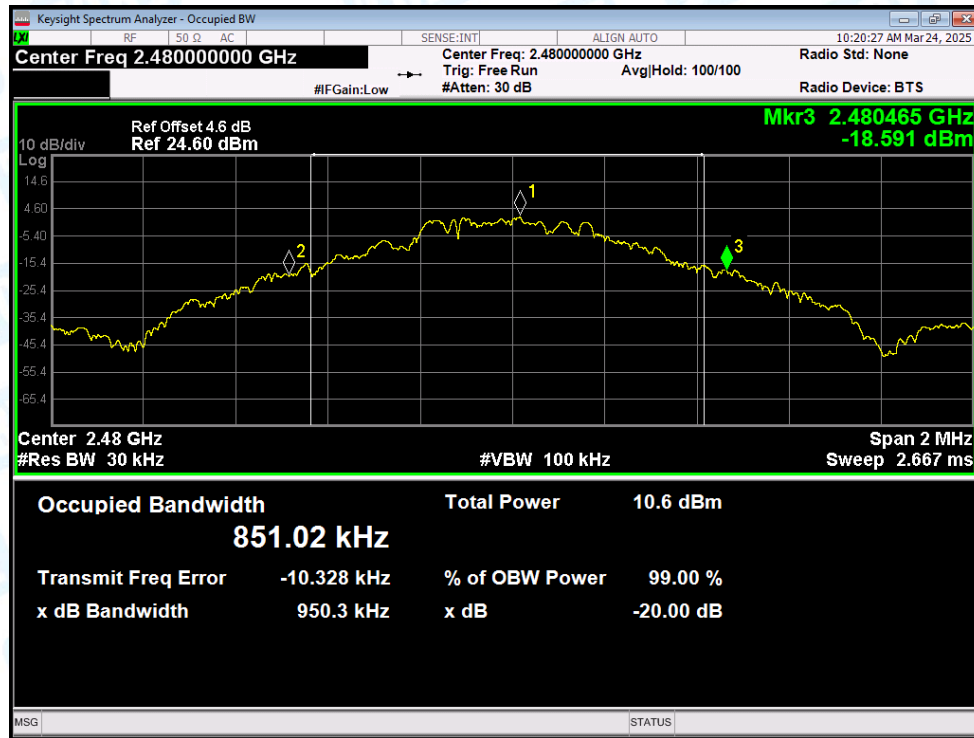
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



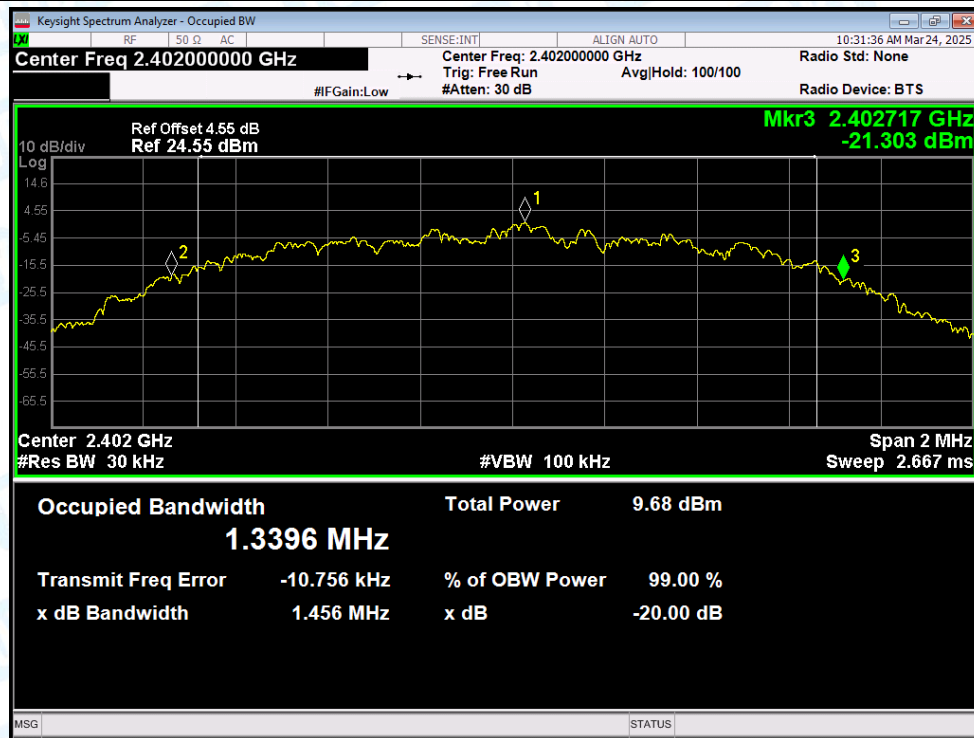
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



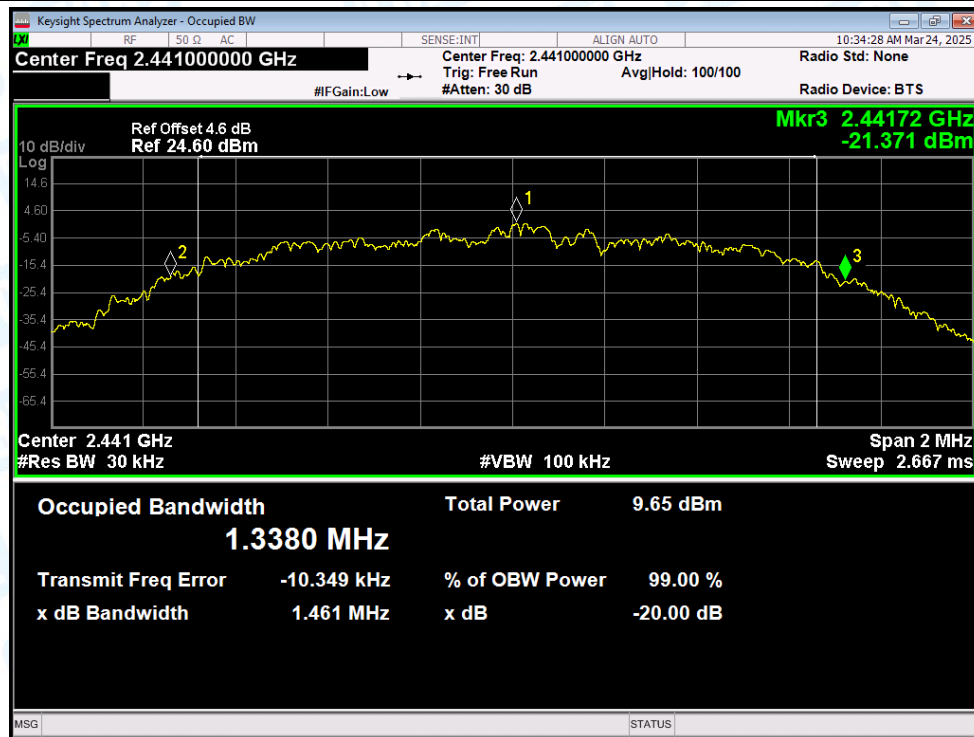
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



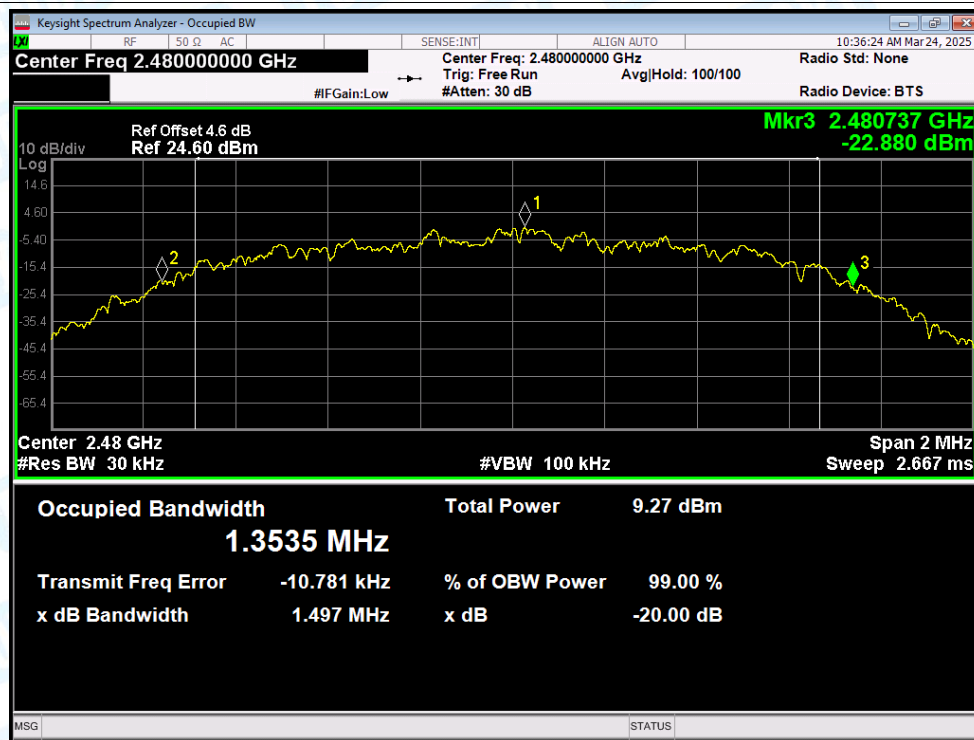
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



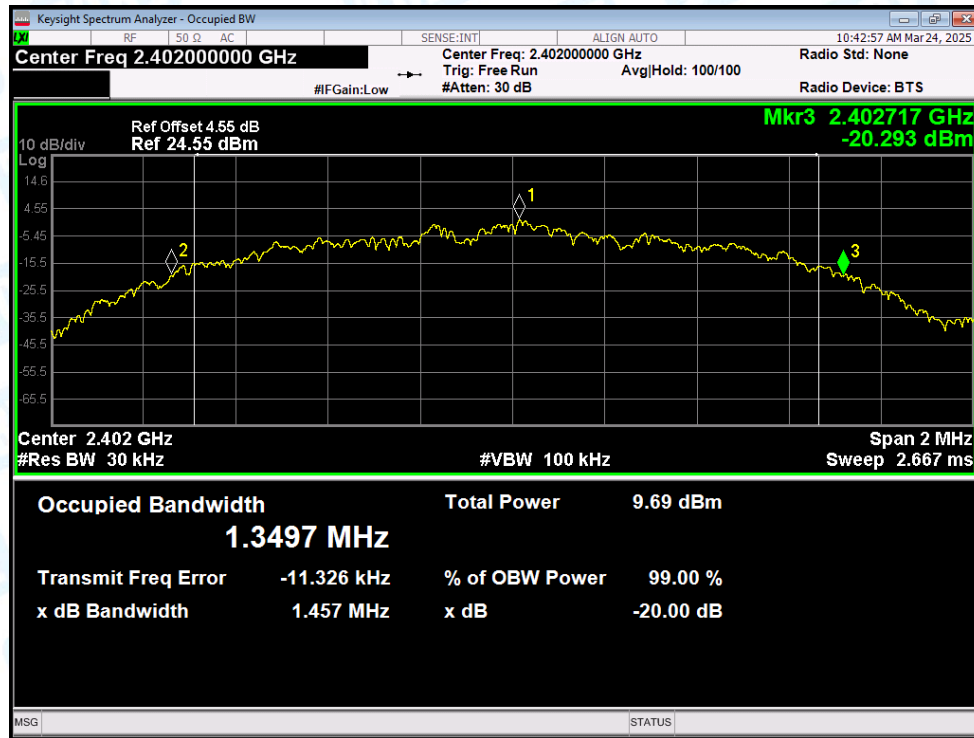
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



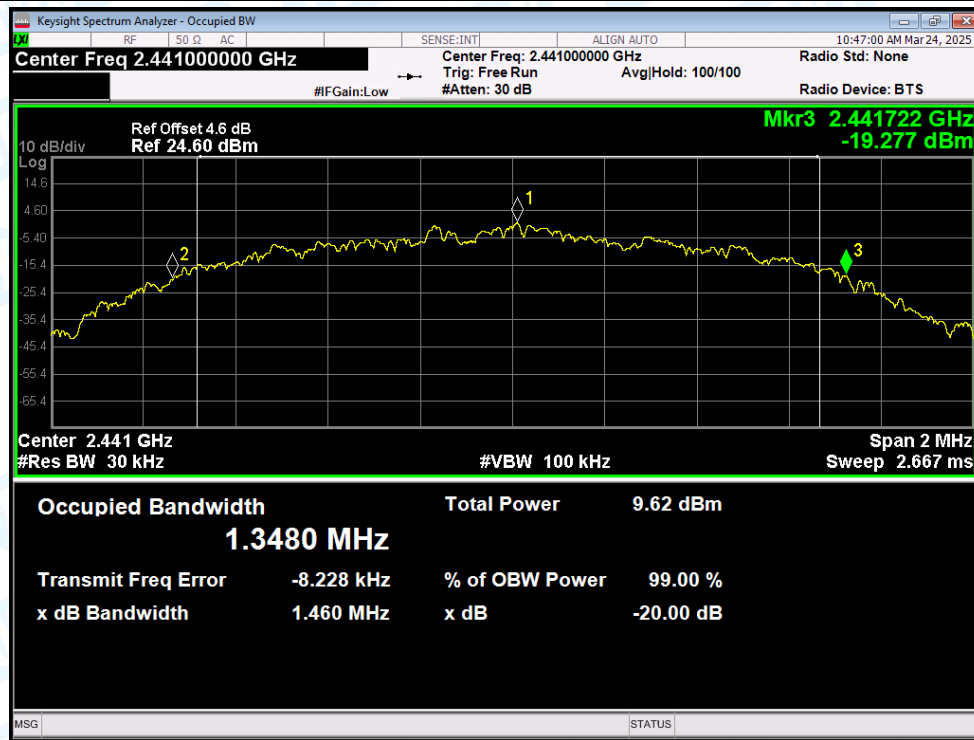
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

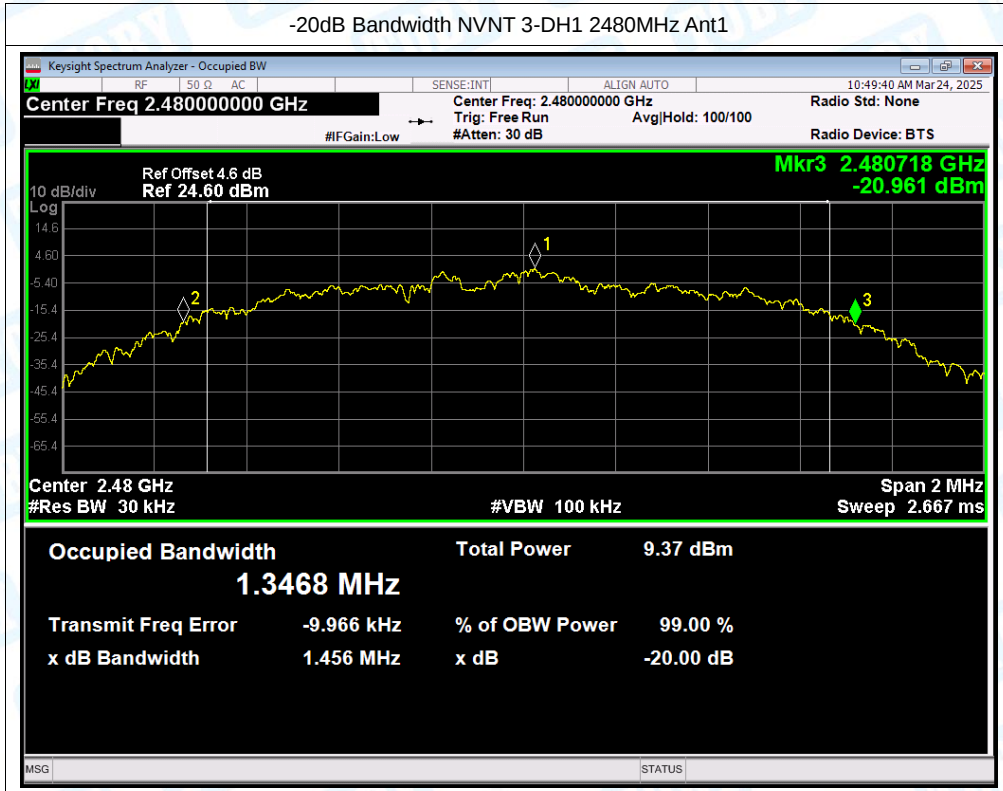


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



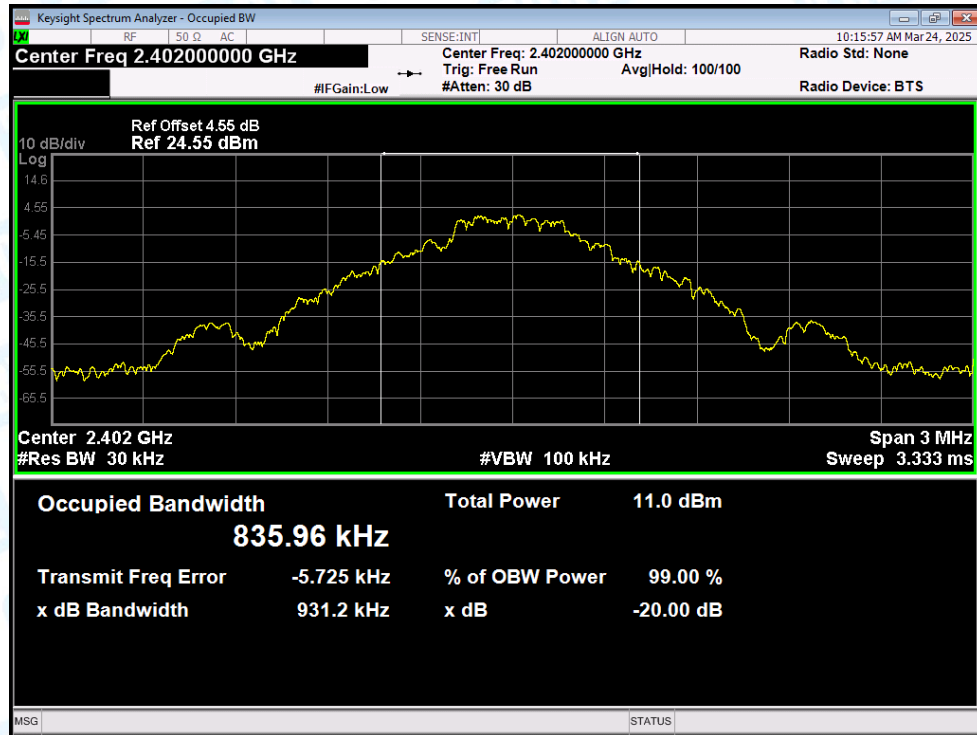


4. Occupied Channel Bandwidth

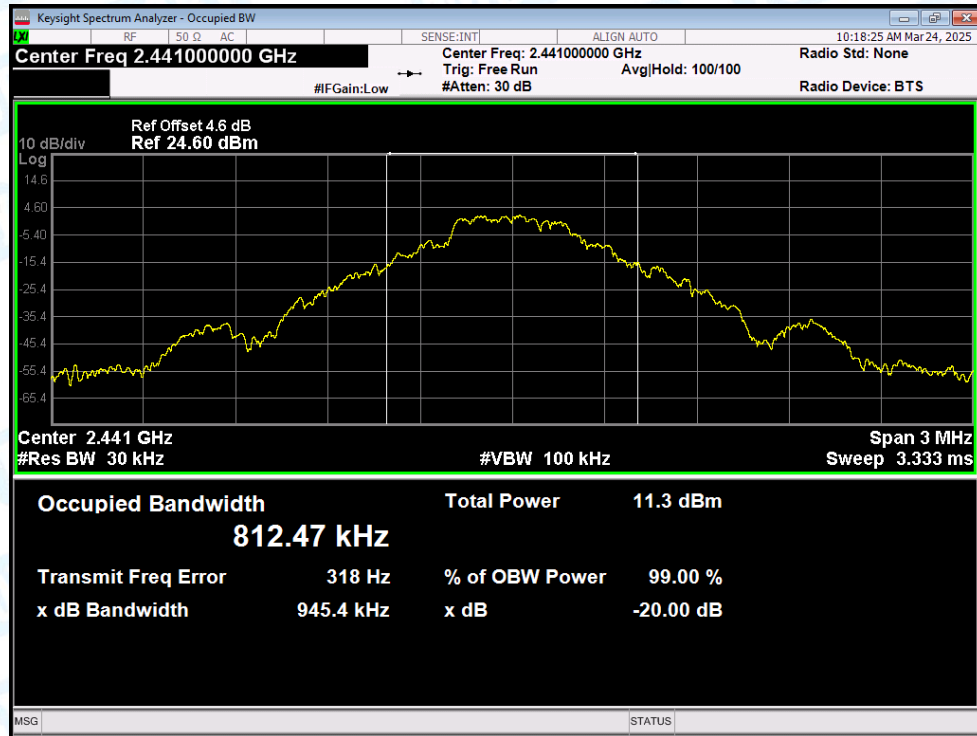
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.836
NVNT	1-DH1	2441	Ant1	0.812
NVNT	1-DH1	2480	Ant1	0.843
NVNT	2-DH1	2402	Ant1	1.343
NVNT	2-DH1	2441	Ant1	1.349
NVNT	2-DH1	2480	Ant1	1.349
NVNT	3-DH1	2402	Ant1	1.363
NVNT	3-DH1	2441	Ant1	1.347
NVNT	3-DH1	2480	Ant1	1.356

Test Graphs

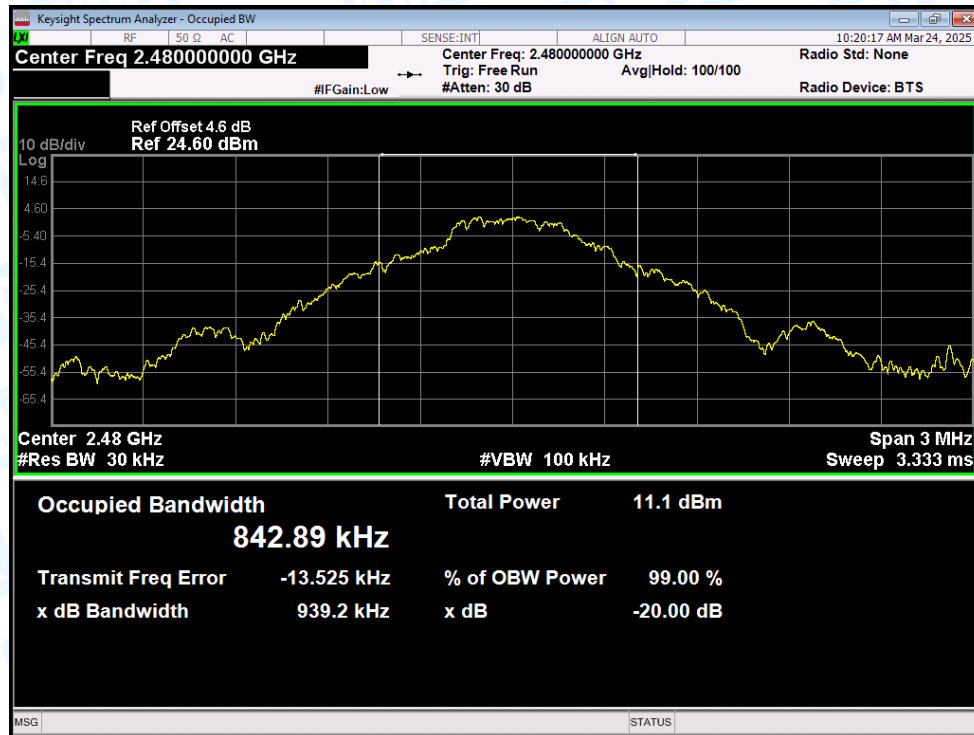
OBW NVNT 1-DH1 2402MHz Ant1



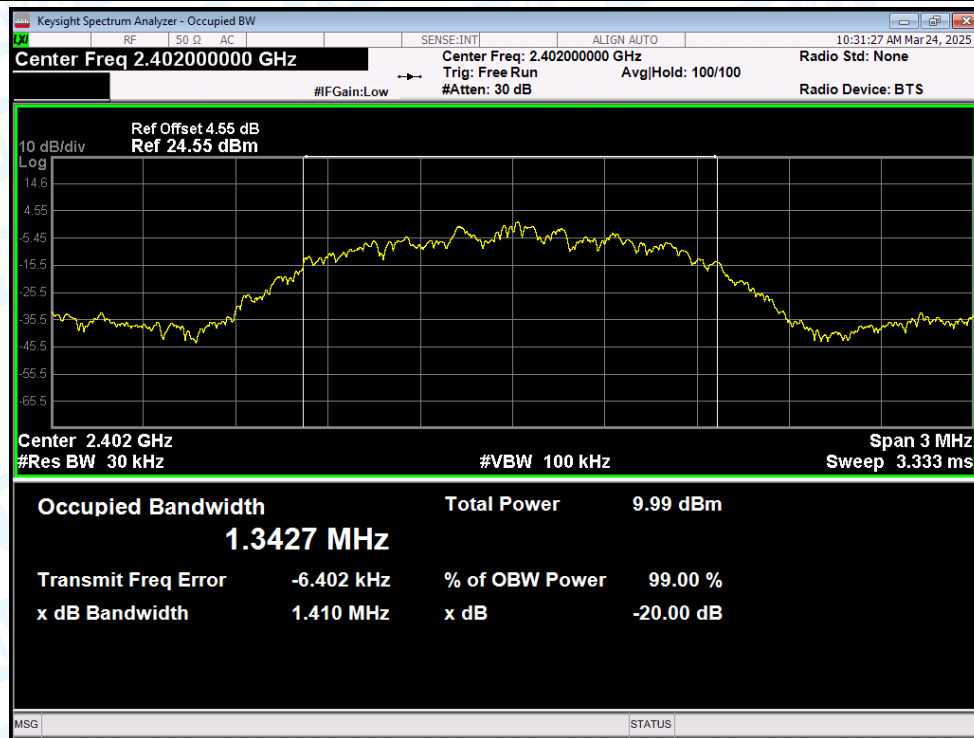
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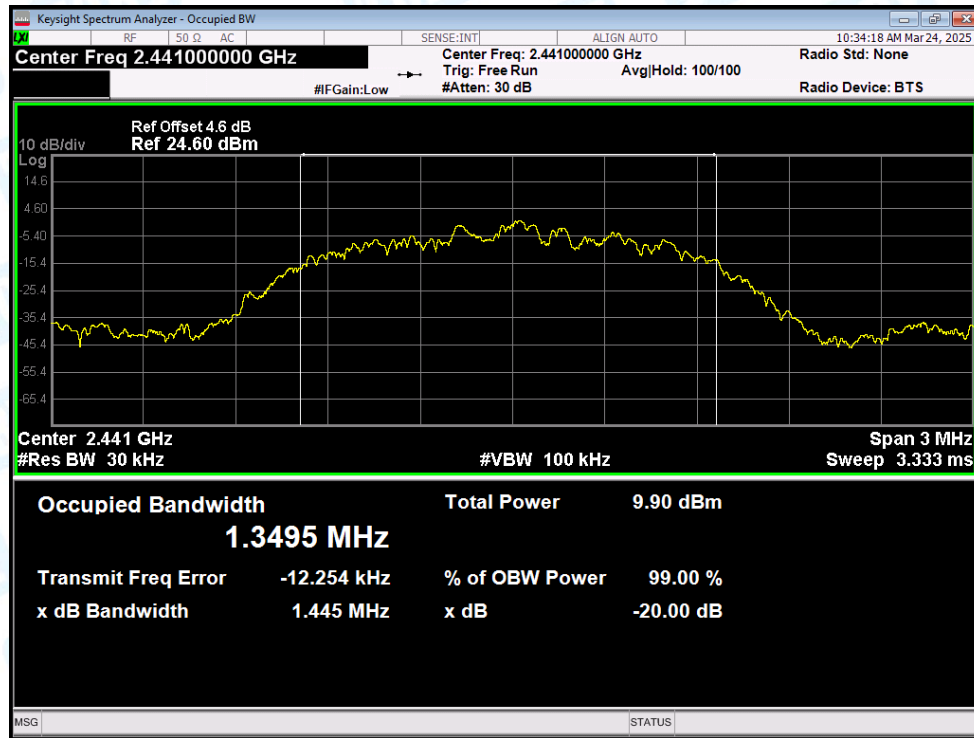
OBW NVNT 1-DH1 2480MHz Ant1



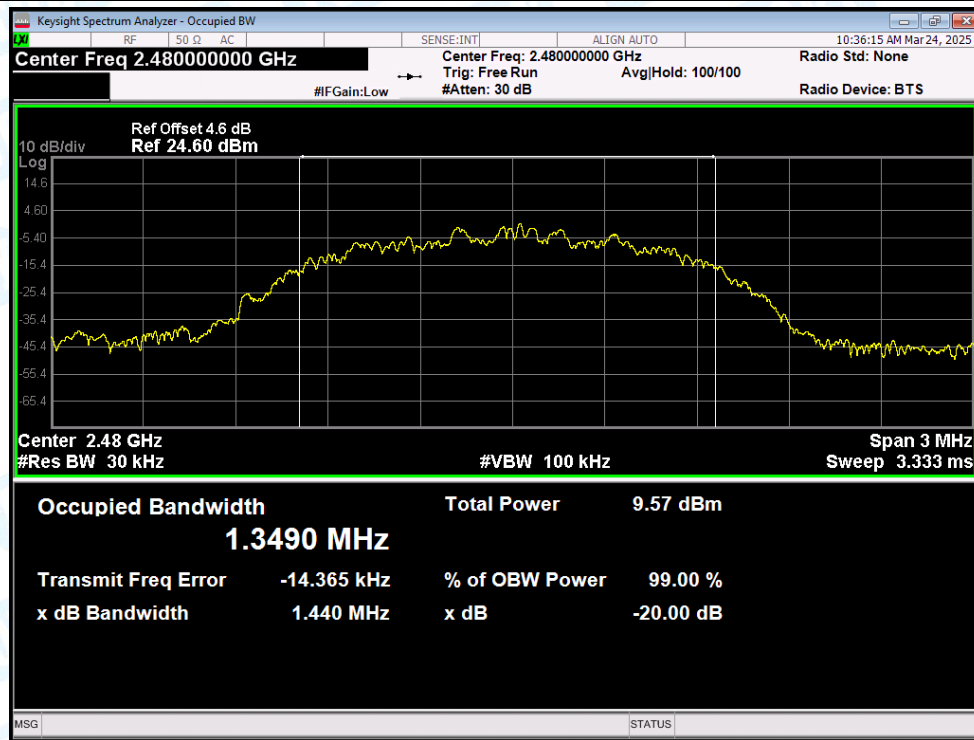
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



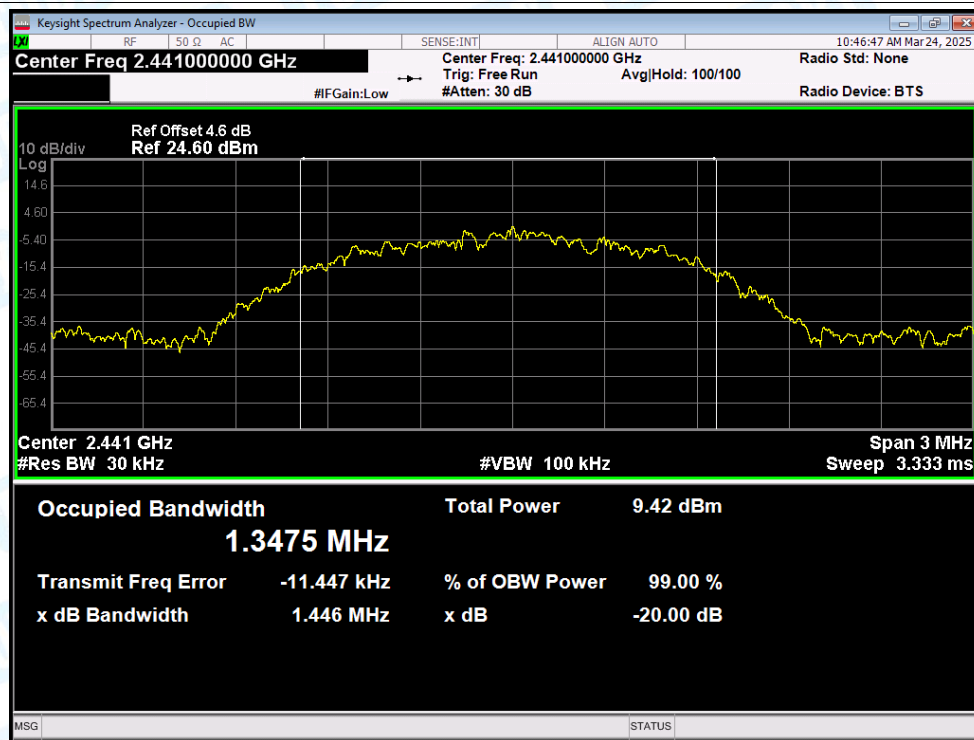
OBW NVNT 2-DH1 2480MHz Ant1

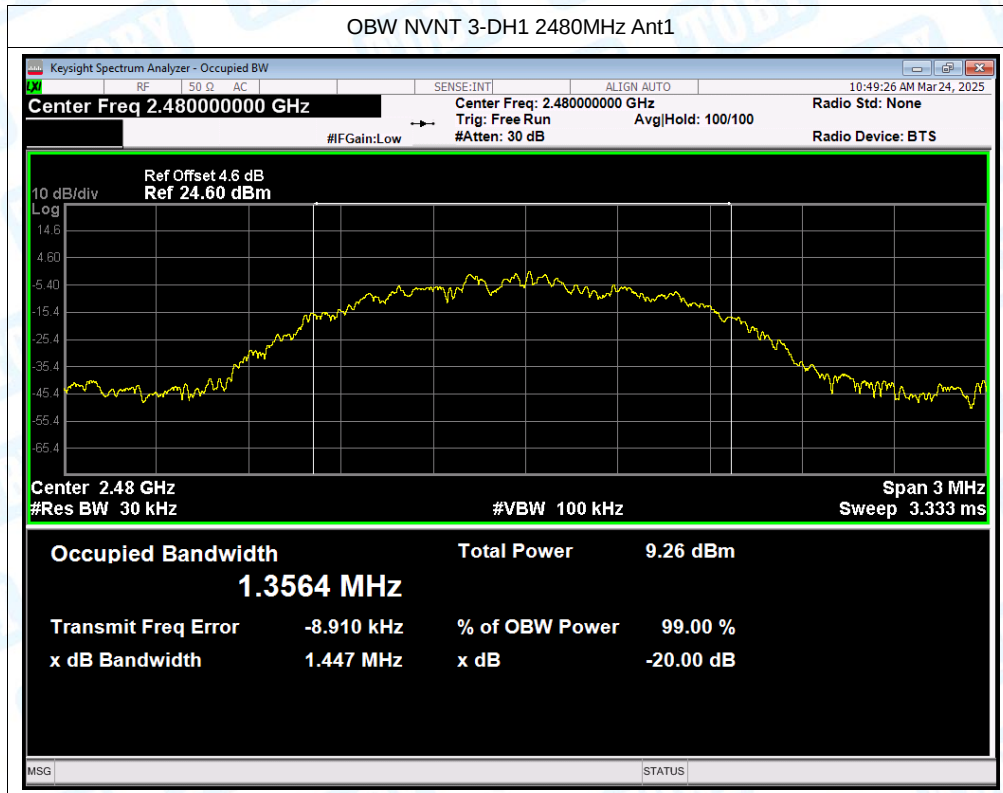


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



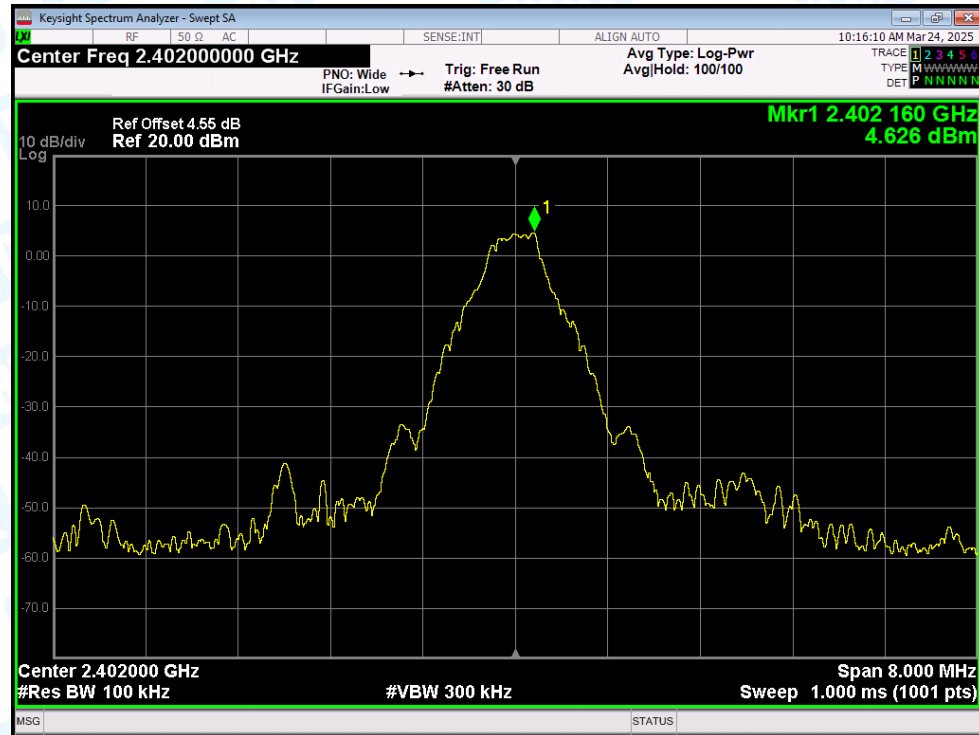


5. Band Edge

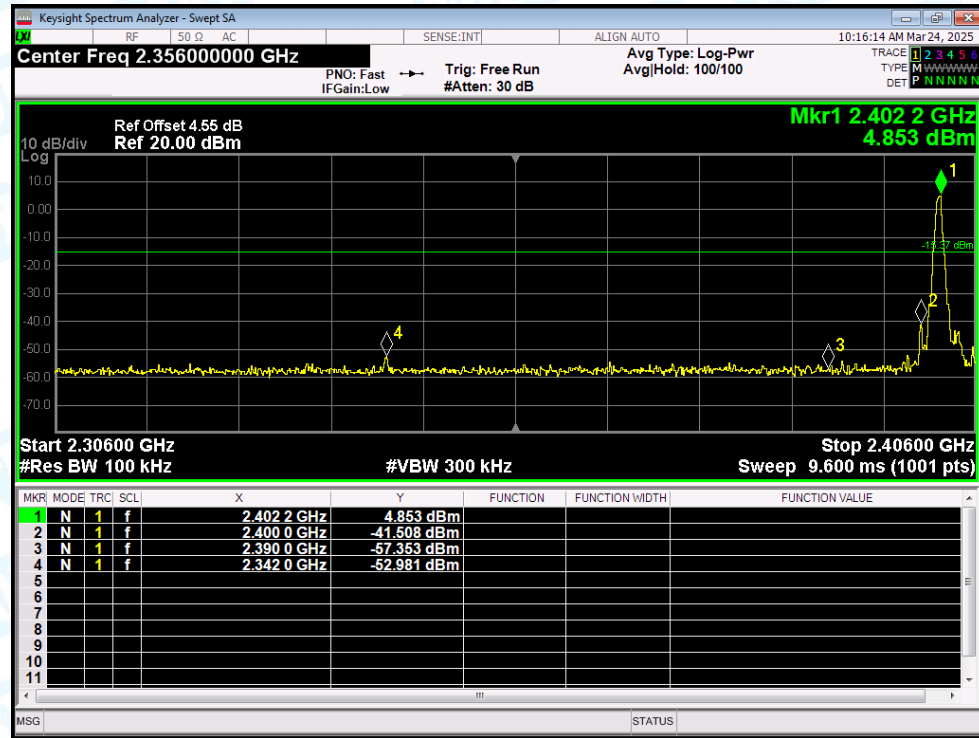
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.61	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.24	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-56.95	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-47.44	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-56.42	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-47.22	-20	Pass

Test Graphs

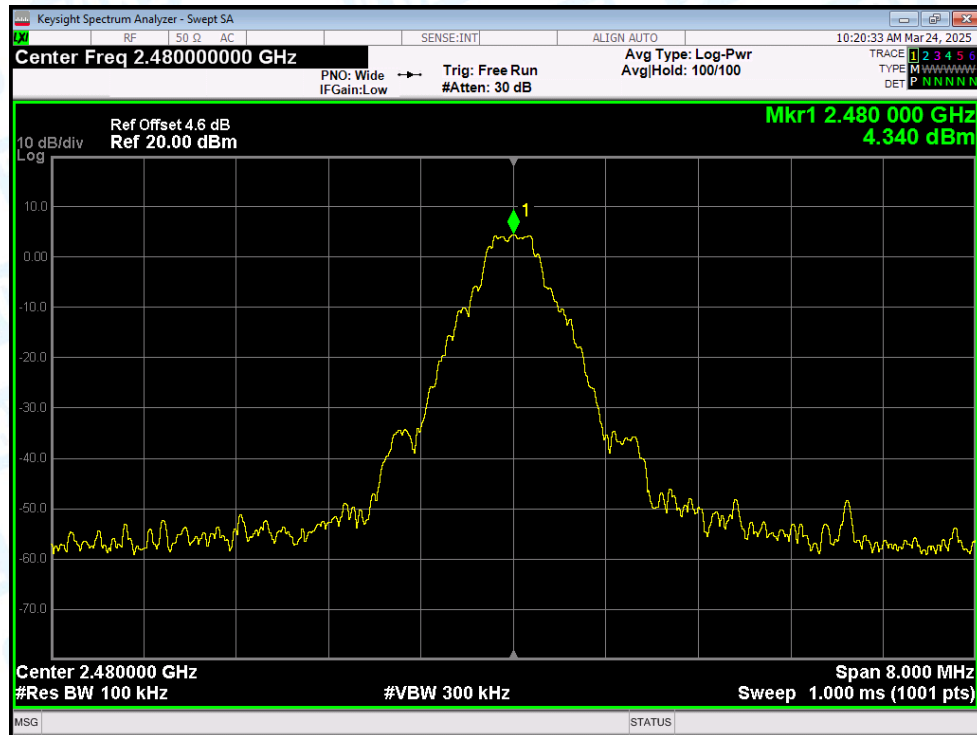
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



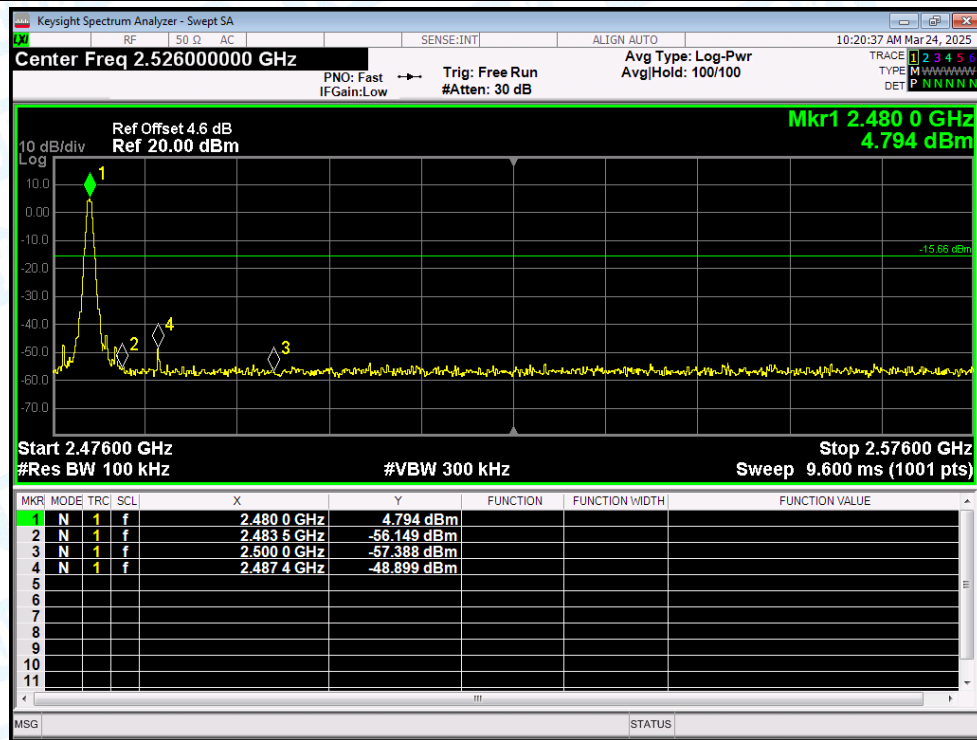
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



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



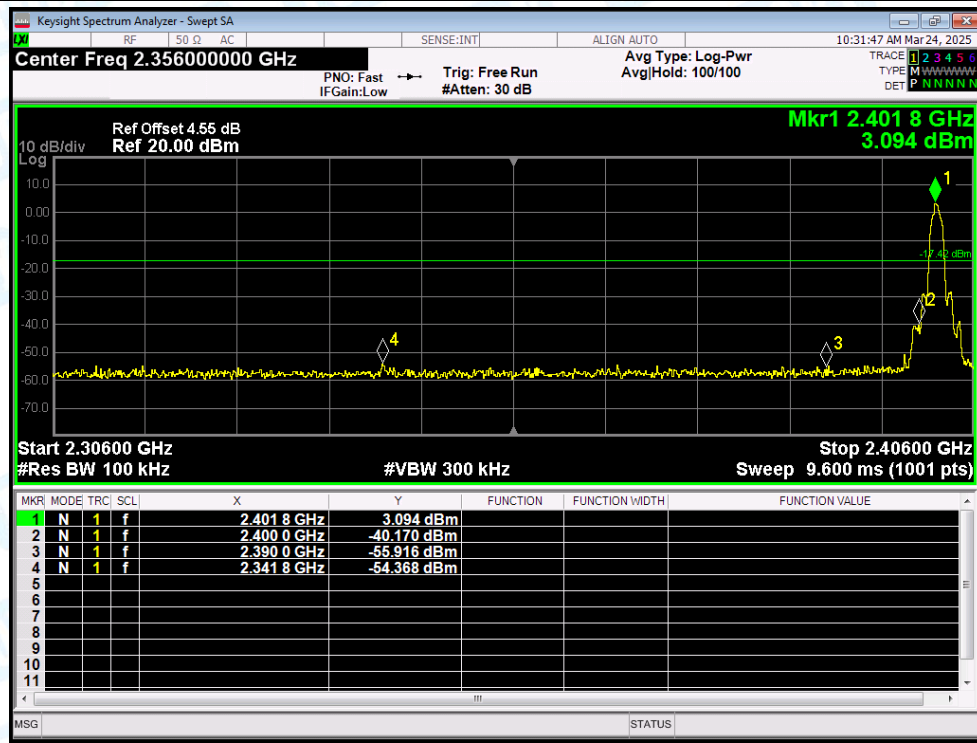
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



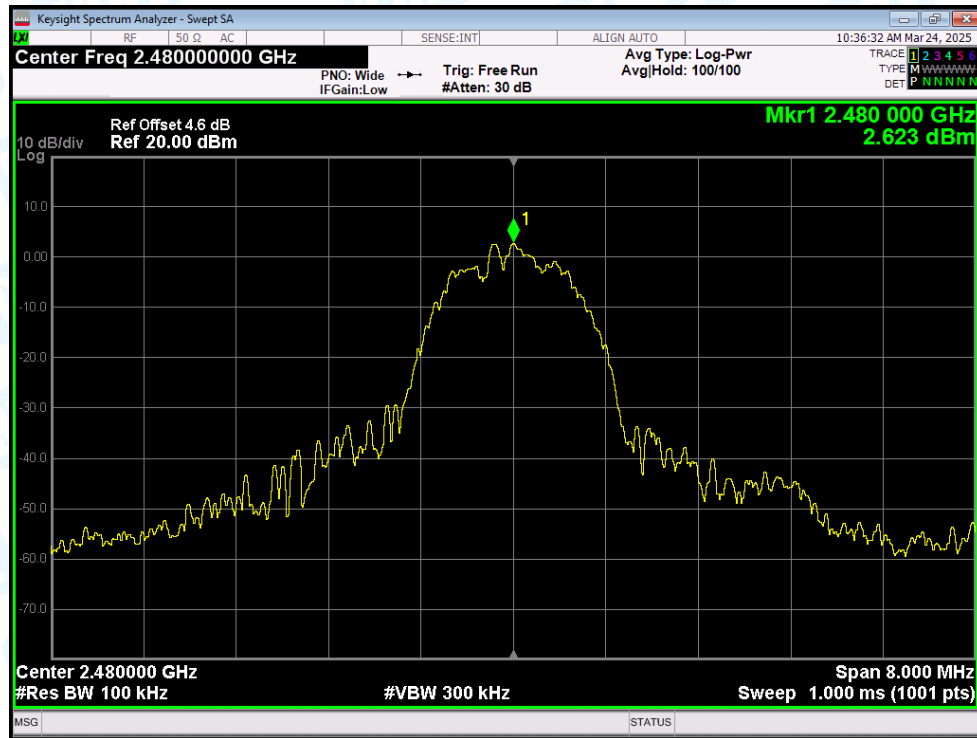
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



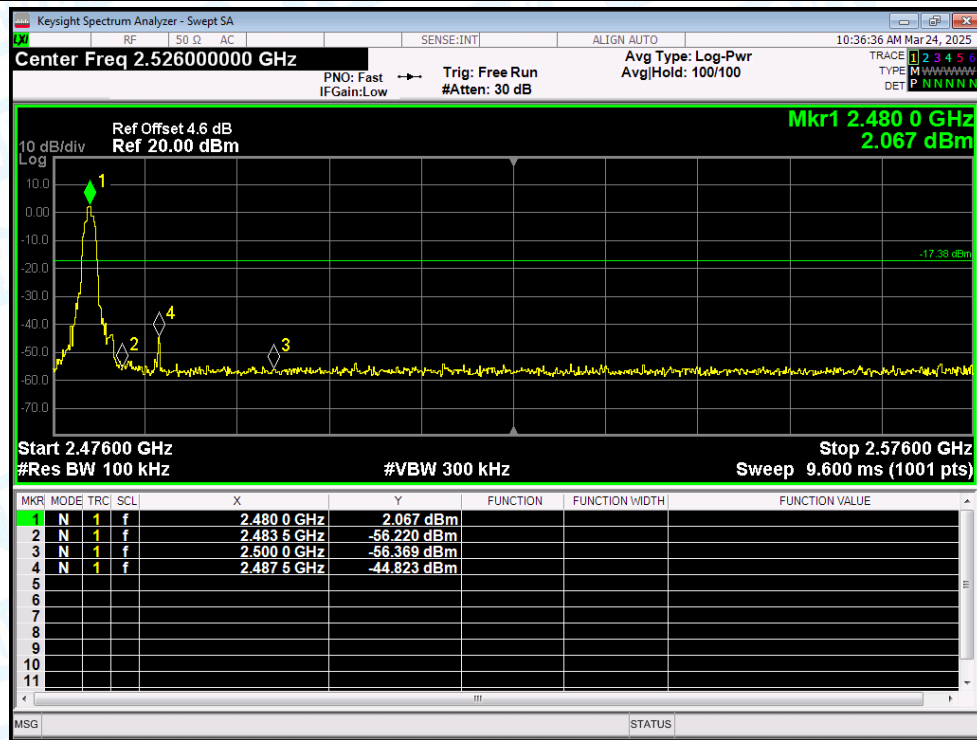
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



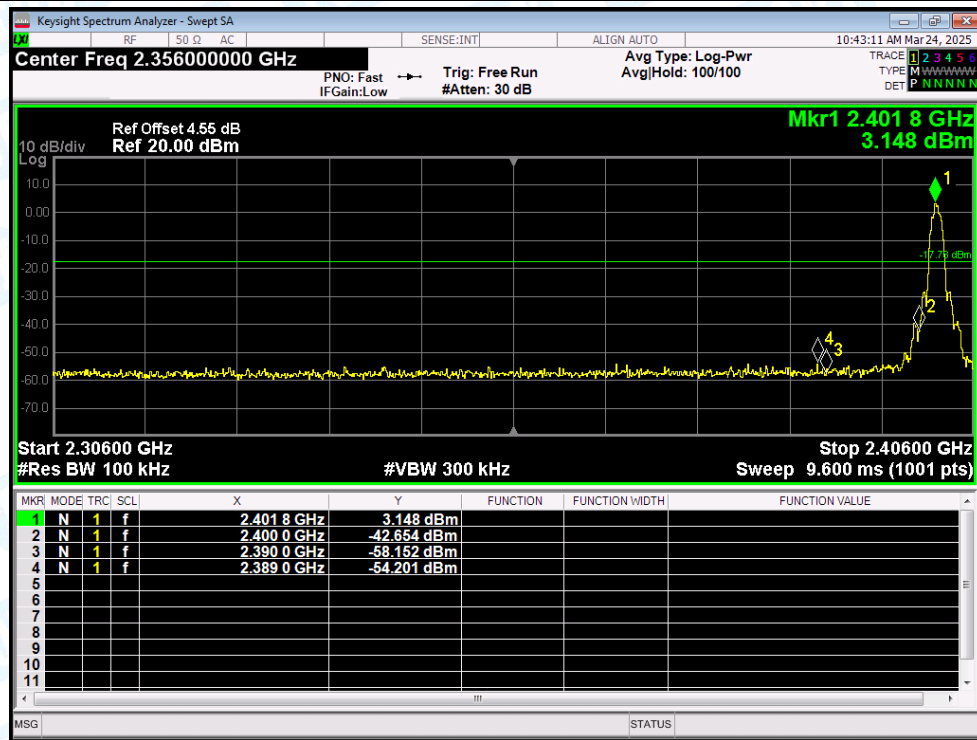
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



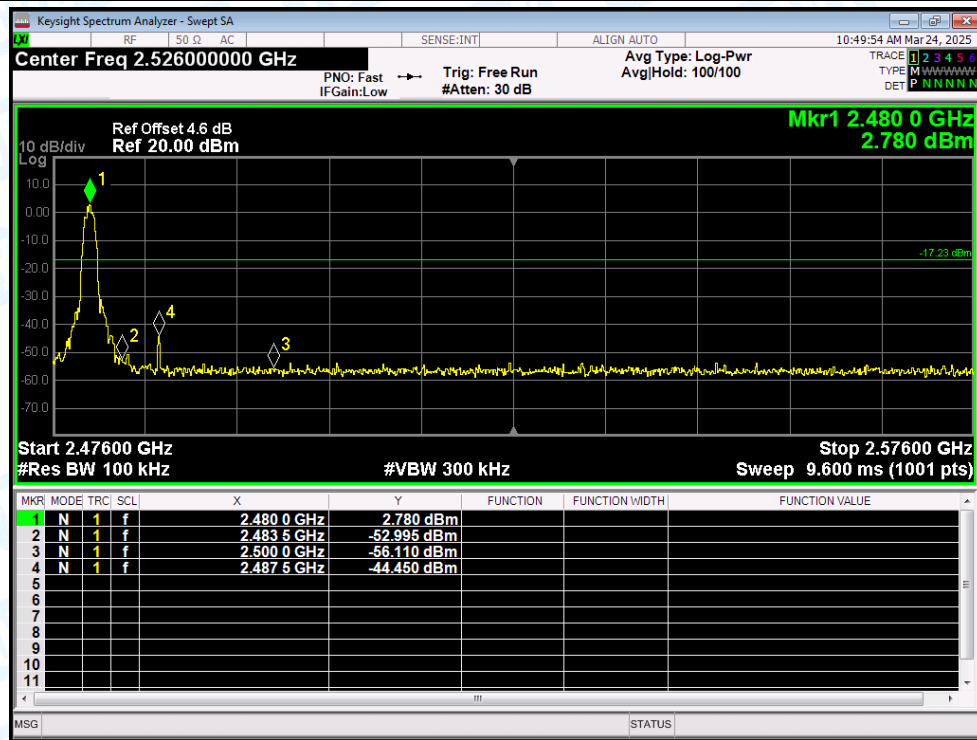
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

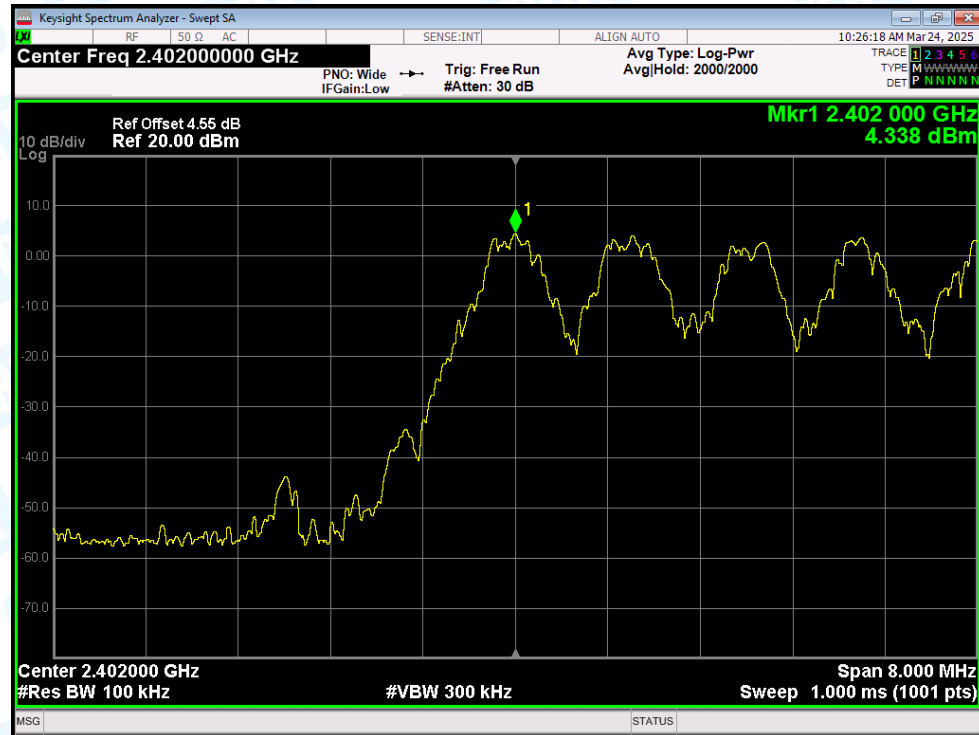


6. Band Edge(Hopping)

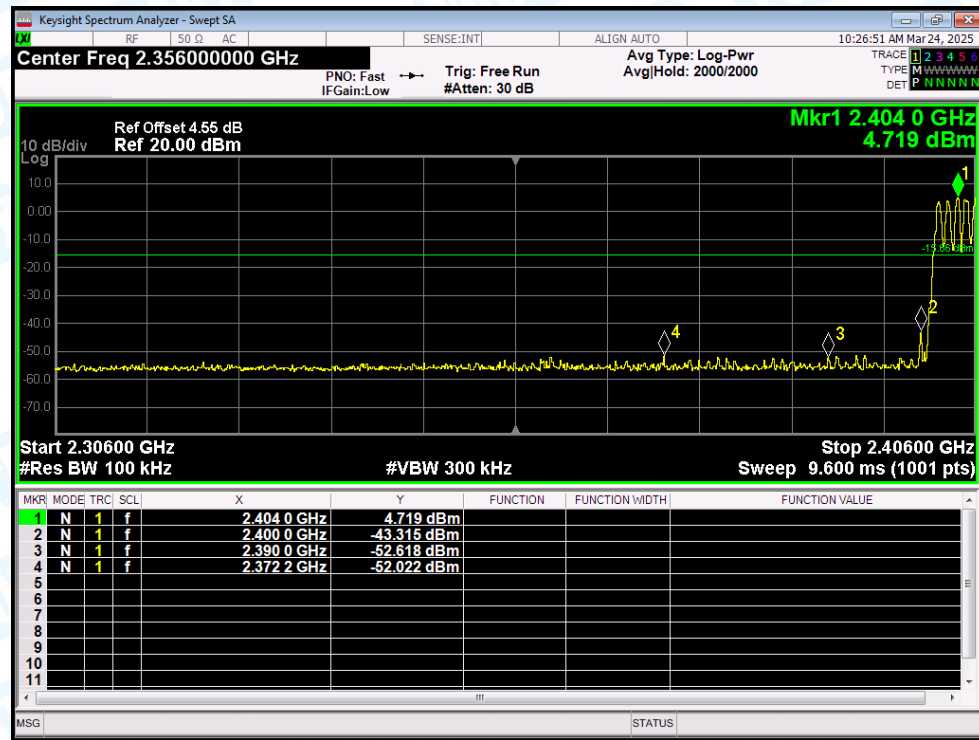
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.36	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.33	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.64	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-47.88	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.62	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.20	-20	Pass

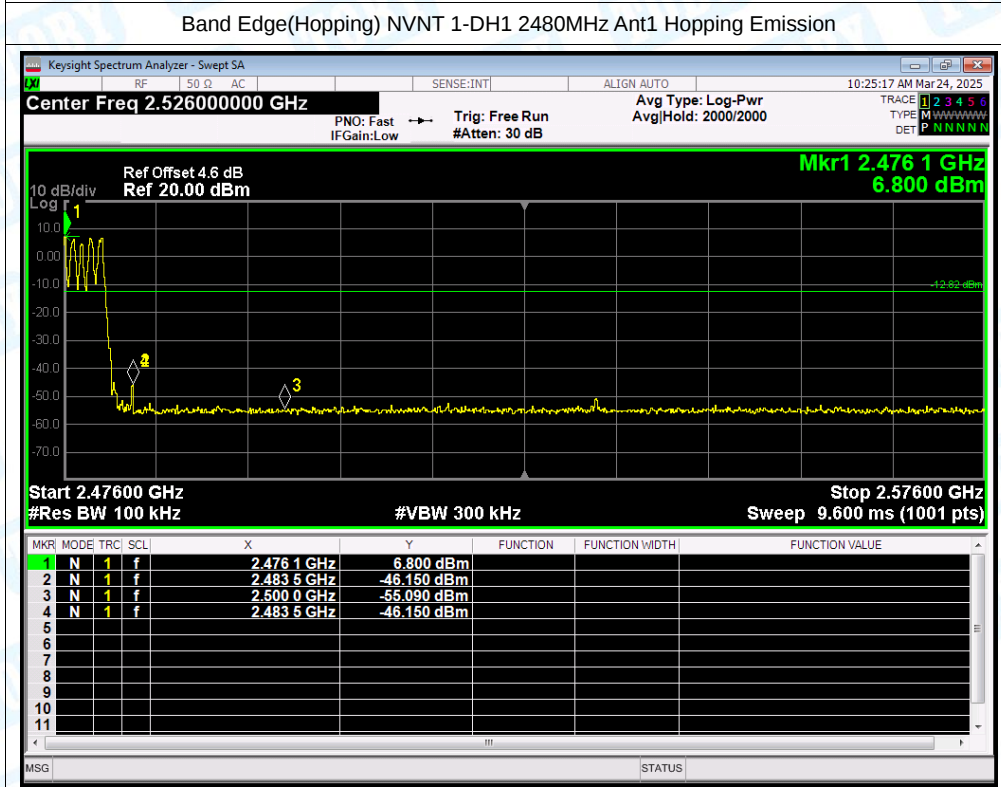
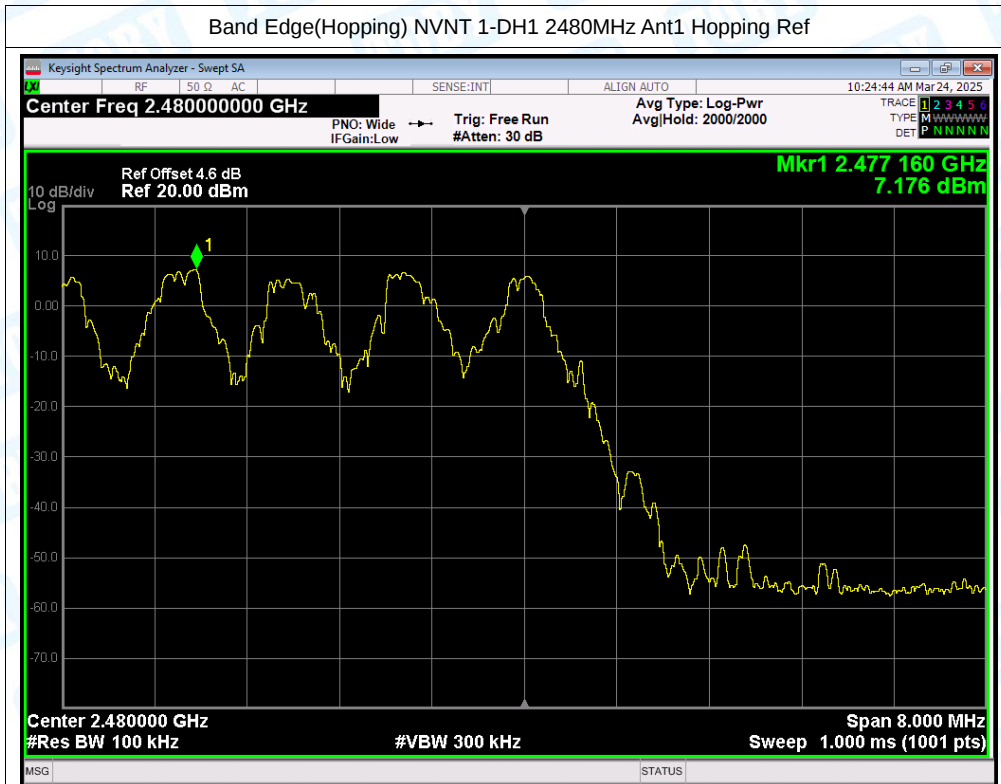
Test Graphs

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



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

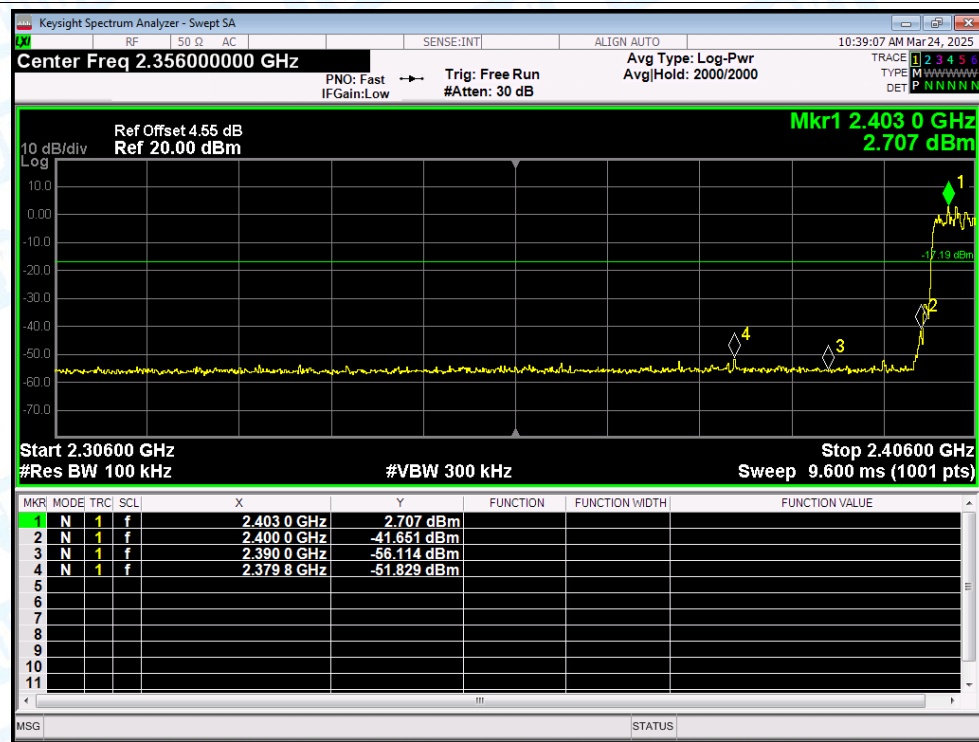


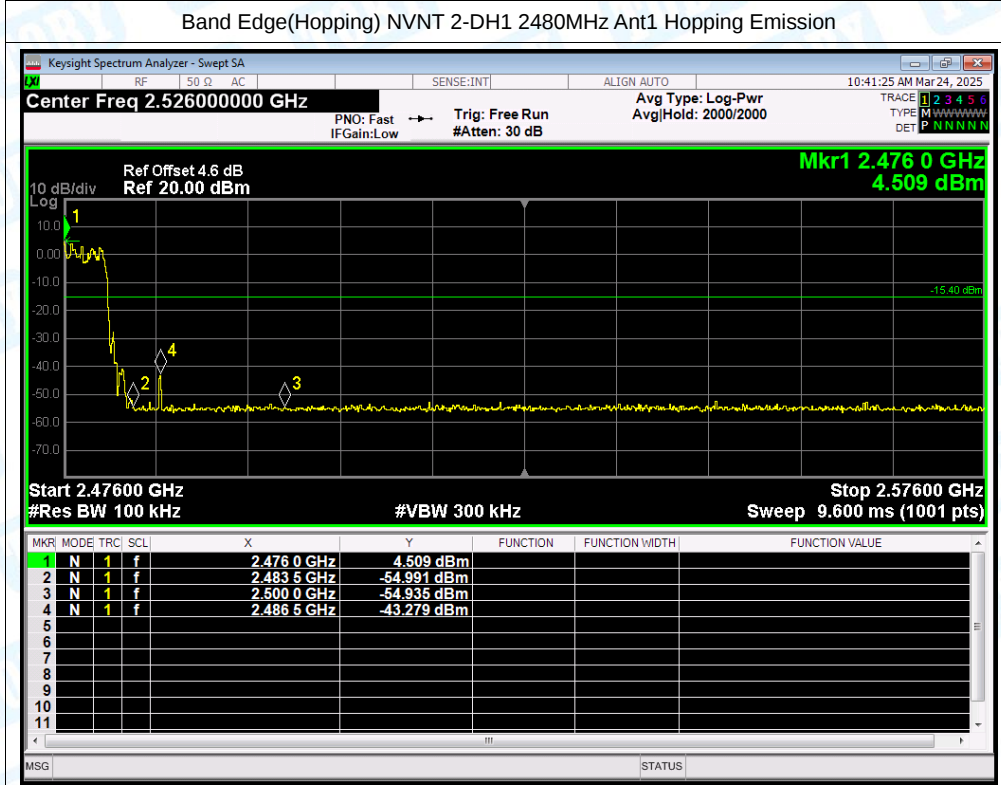


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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

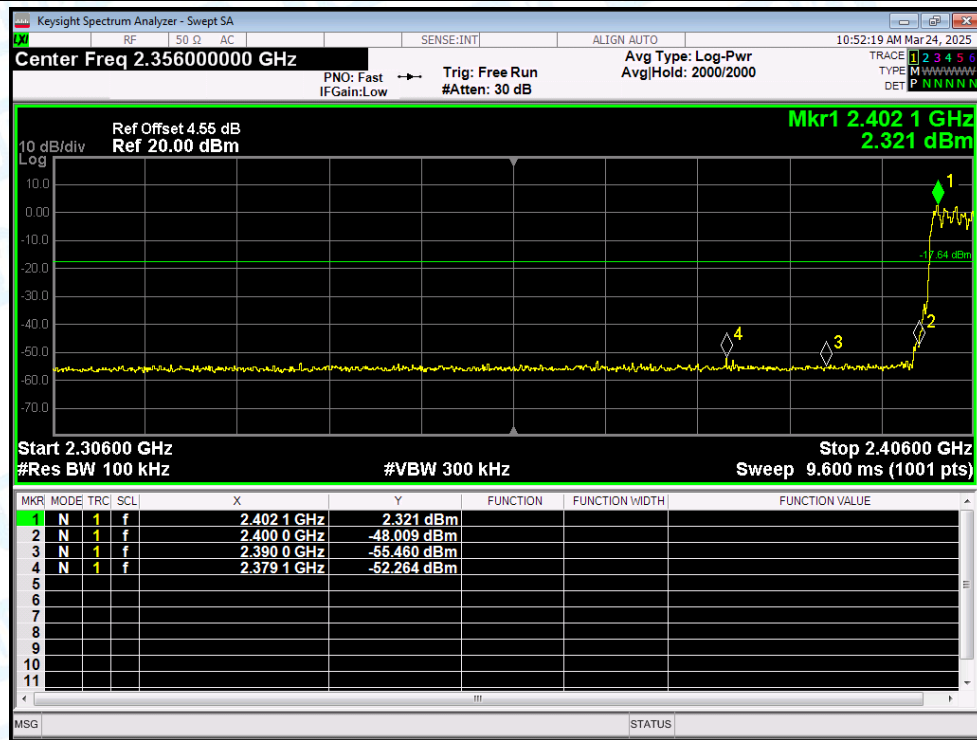




Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



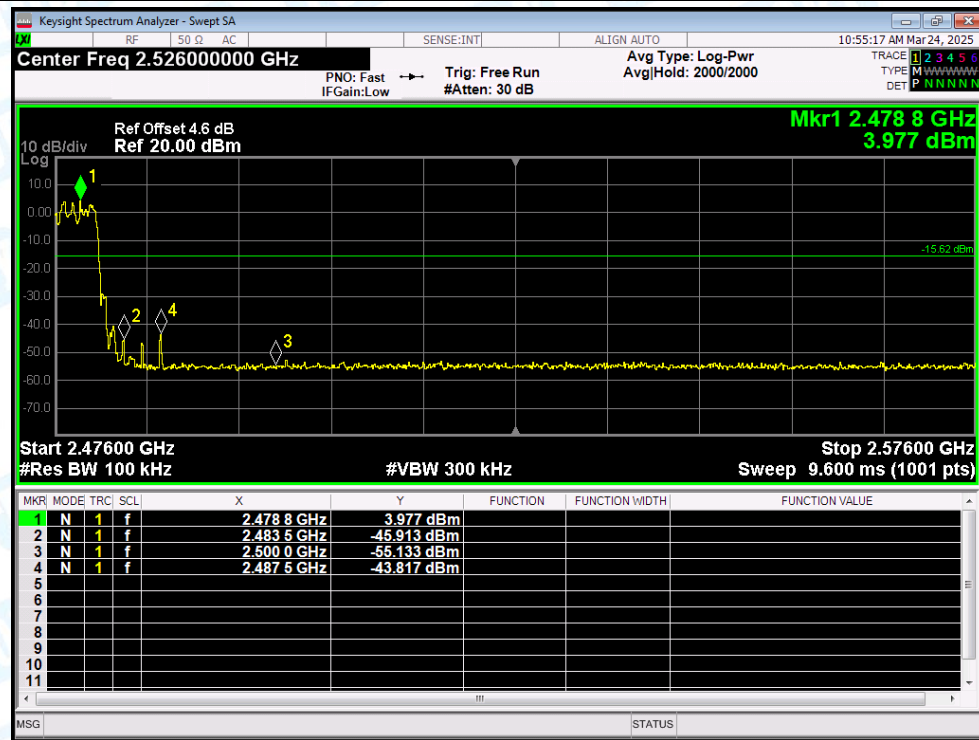
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

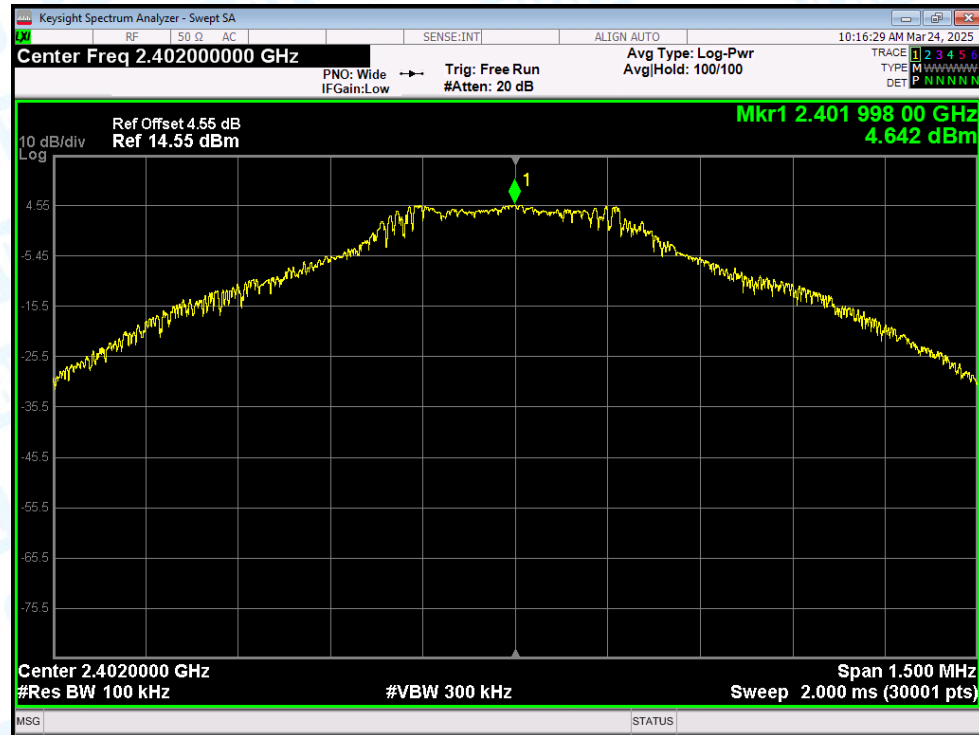


7. Conducted RF Spurious Emission

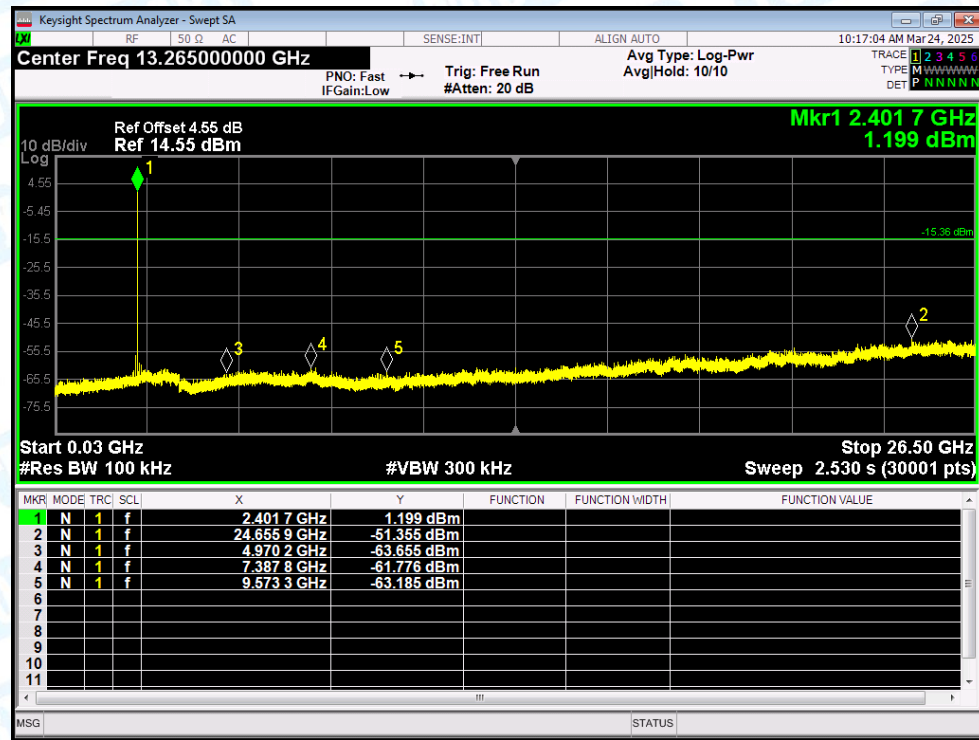
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-56.00	-20	Pass
NVNT	1-DH1	2441	Ant1	-55.92	-20	Pass
NVNT	1-DH1	2480	Ant1	-55.64	-20	Pass
NVNT	2-DH1	2402	Ant1	-54.47	-20	Pass
NVNT	2-DH1	2441	Ant1	-54.23	-20	Pass
NVNT	2-DH1	2480	Ant1	-54.15	-20	Pass
NVNT	3-DH1	2402	Ant1	-54.01	-20	Pass
NVNT	3-DH1	2441	Ant1	-54.00	-20	Pass
NVNT	3-DH1	2480	Ant1	-53.8	-20	Pass

Test Graphs

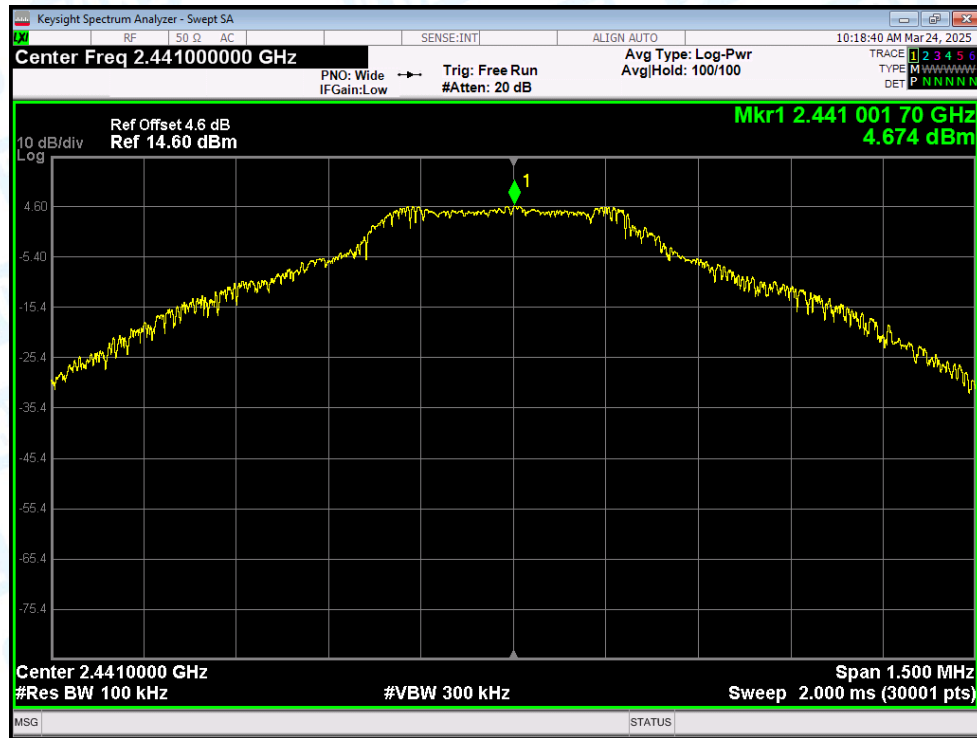
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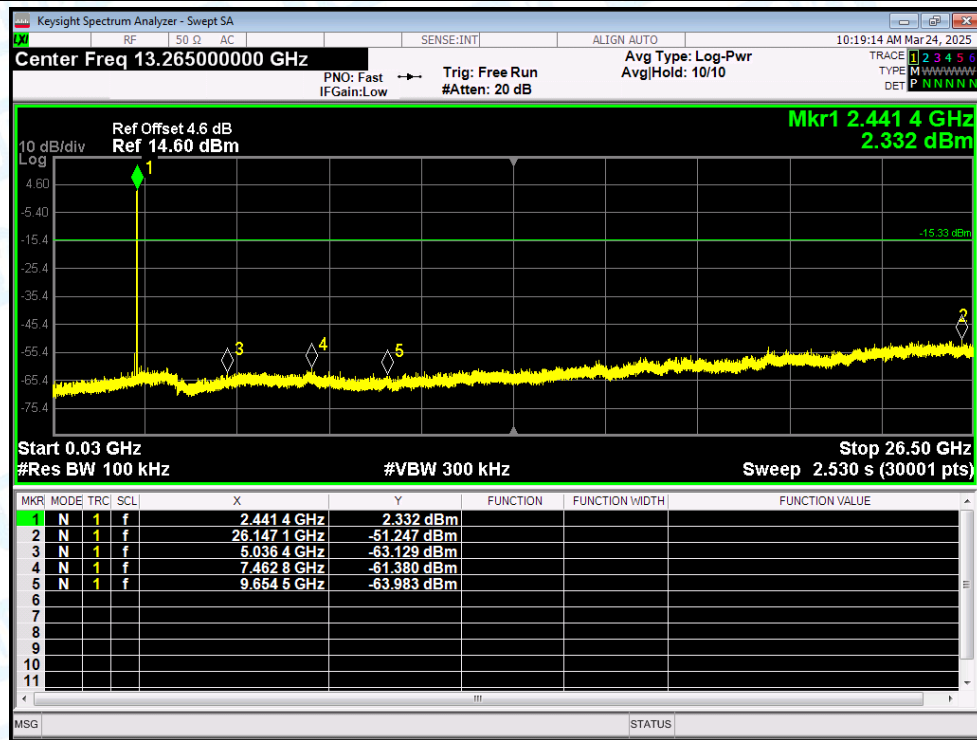
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



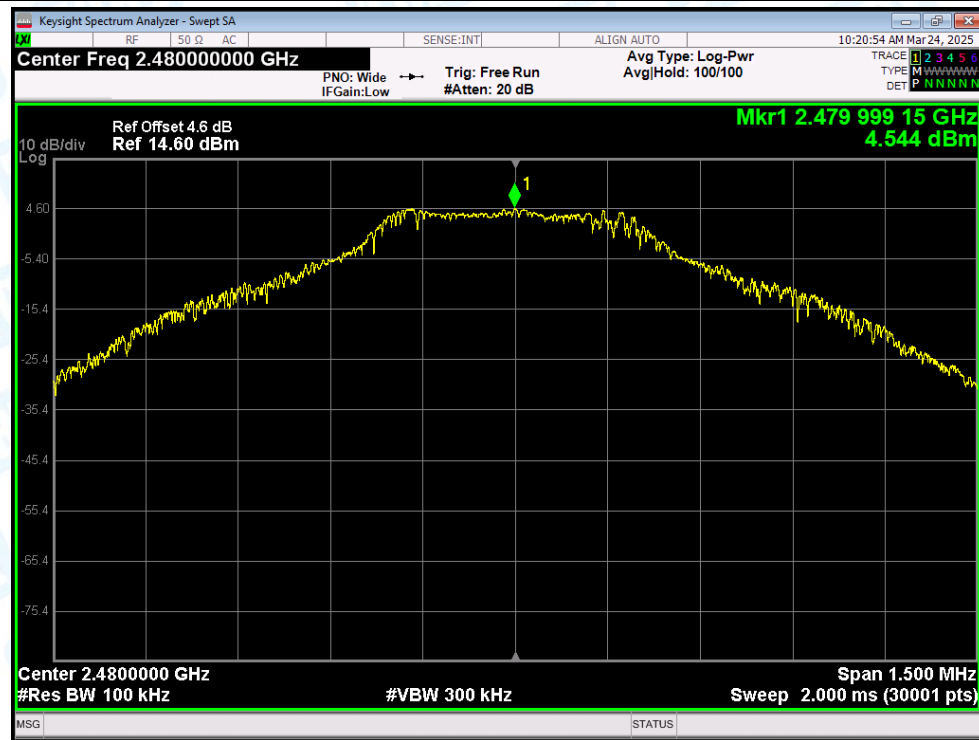
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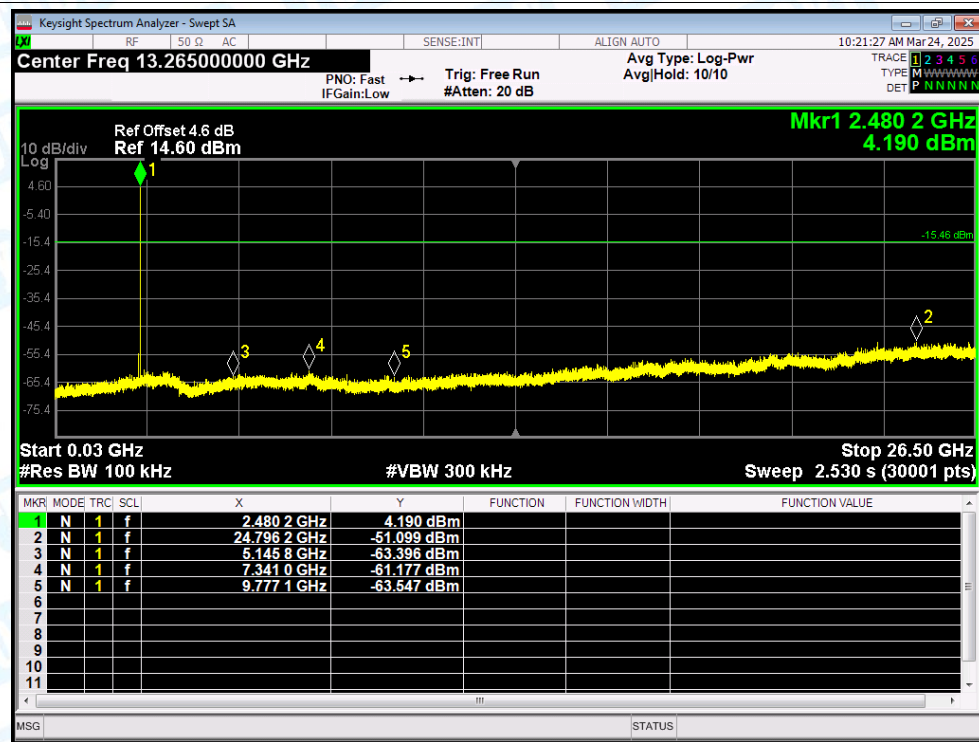
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



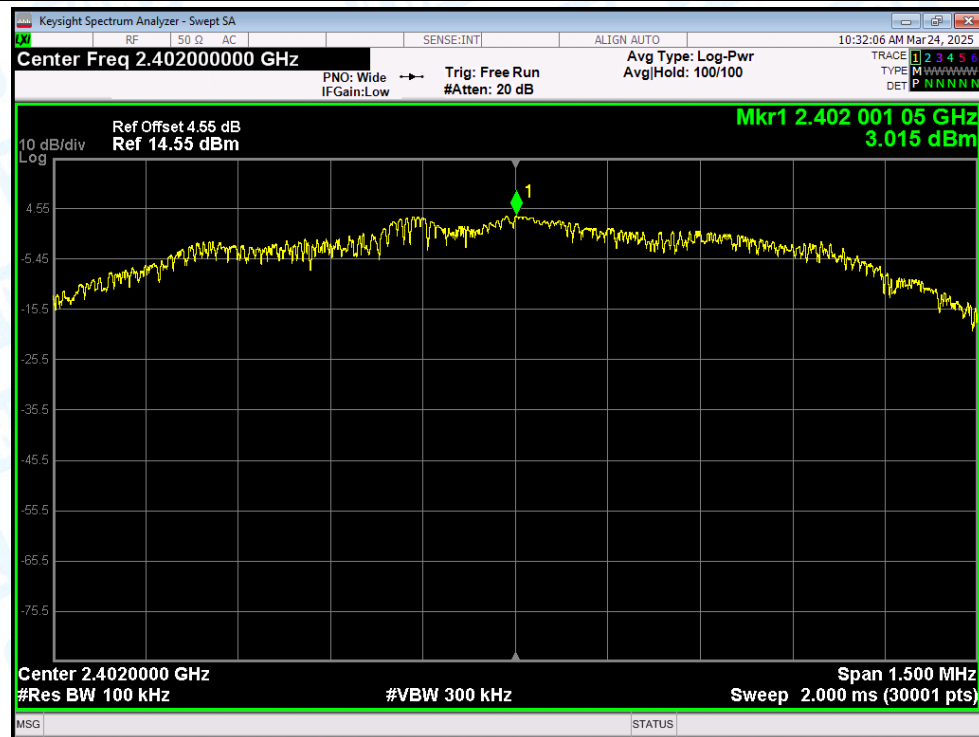
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



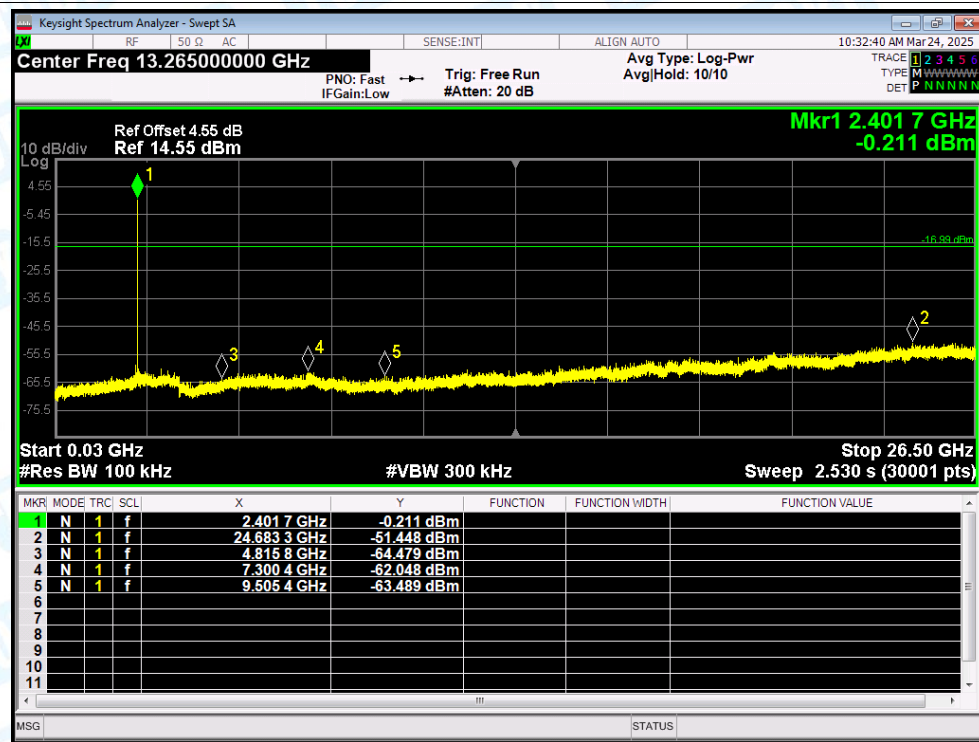
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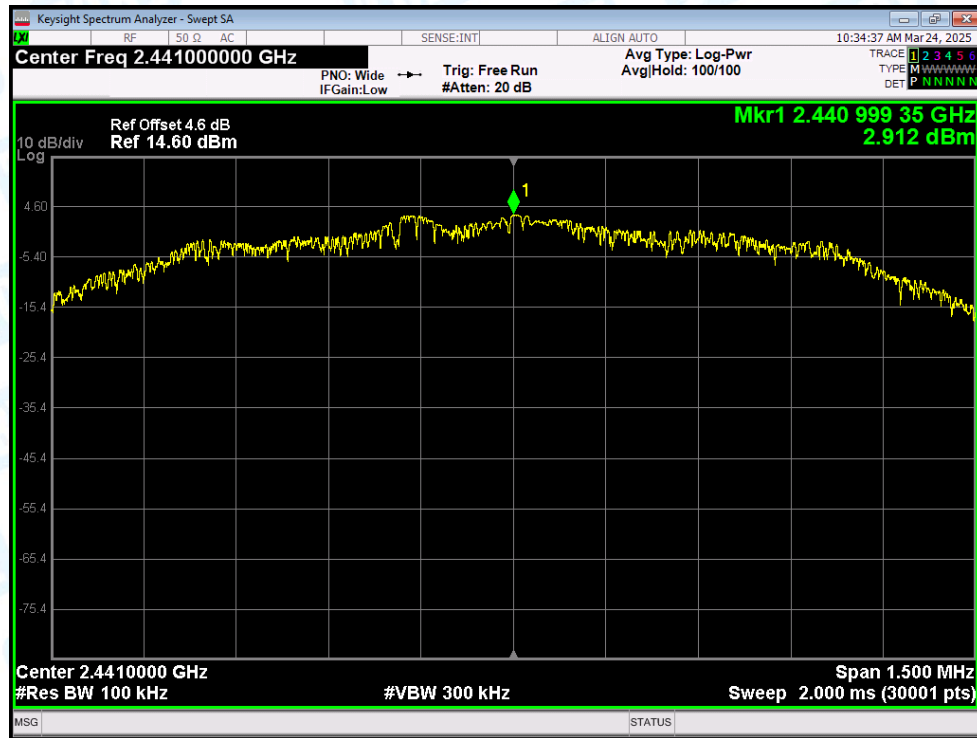
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



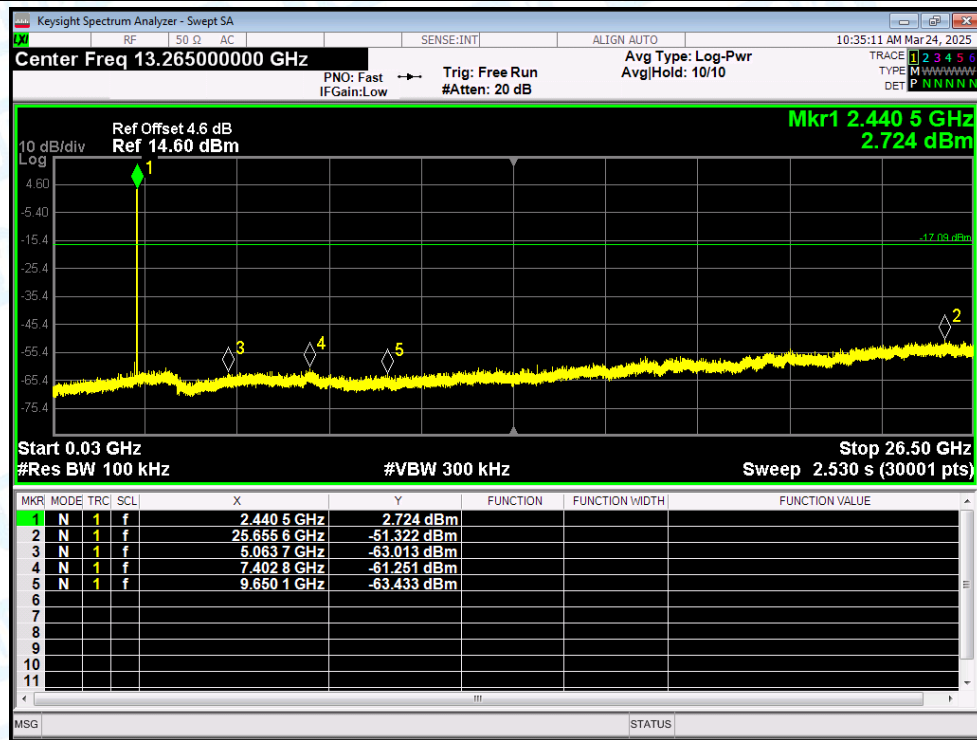
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



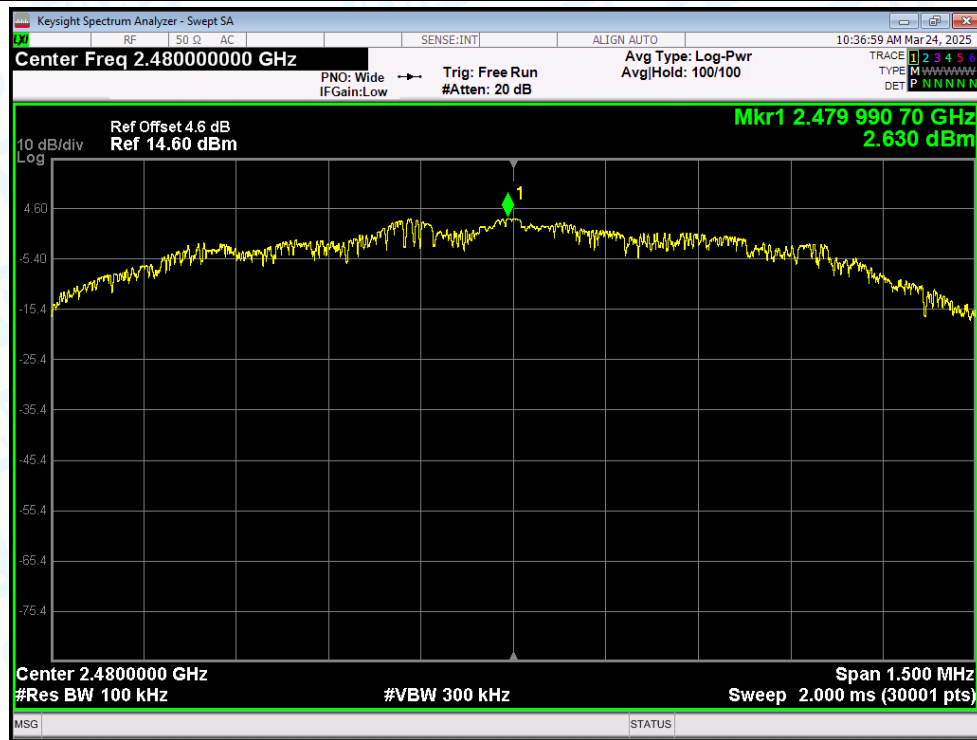
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



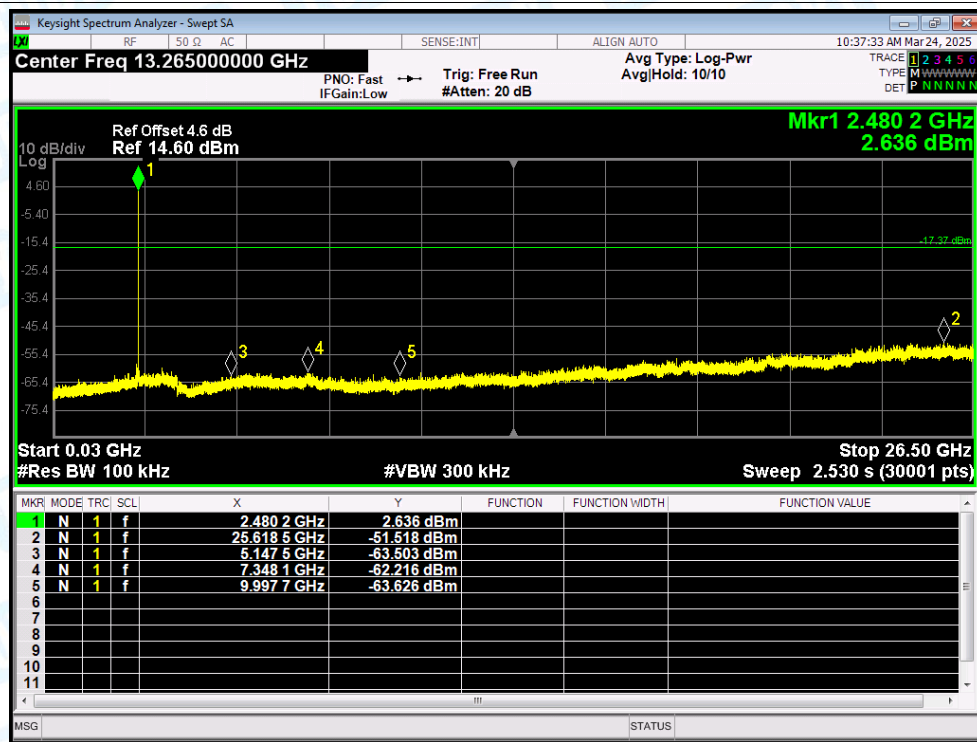
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



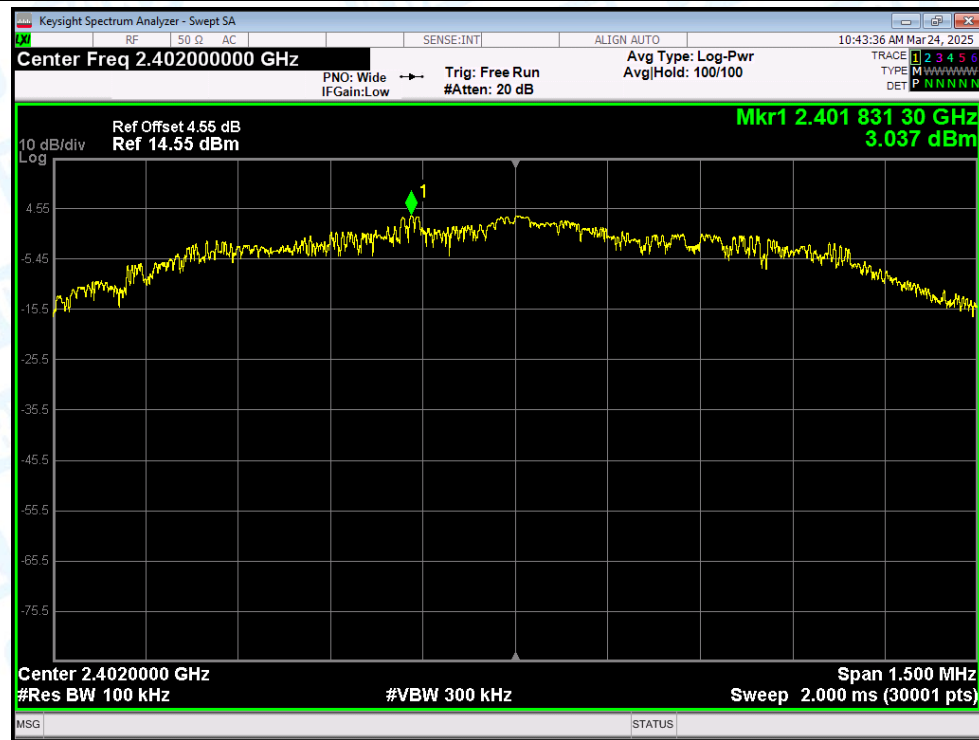
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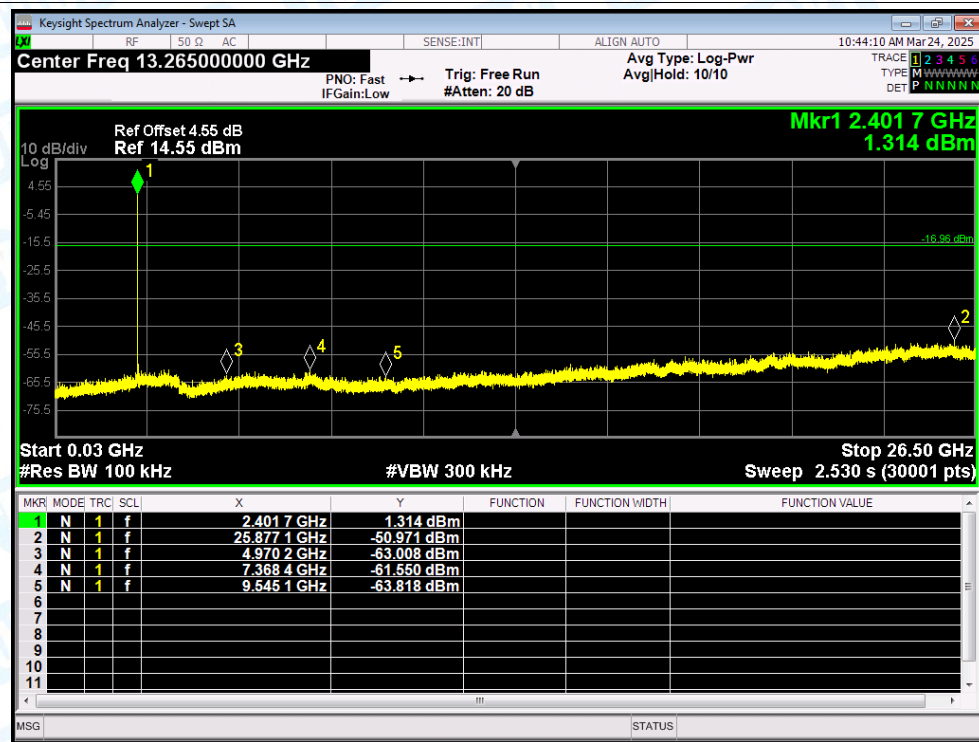
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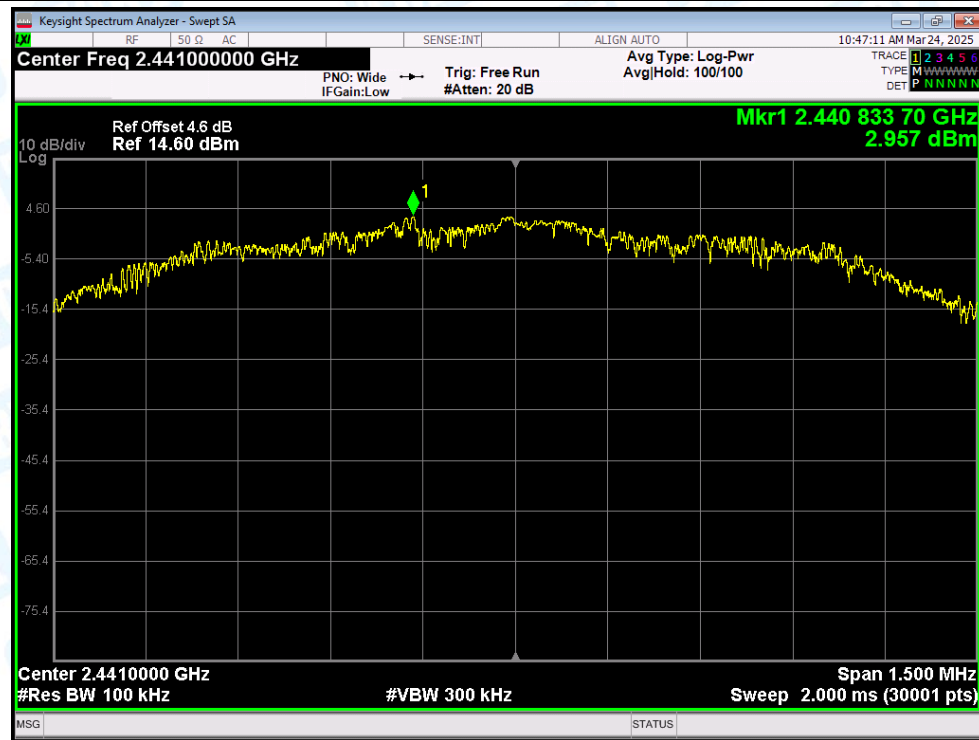
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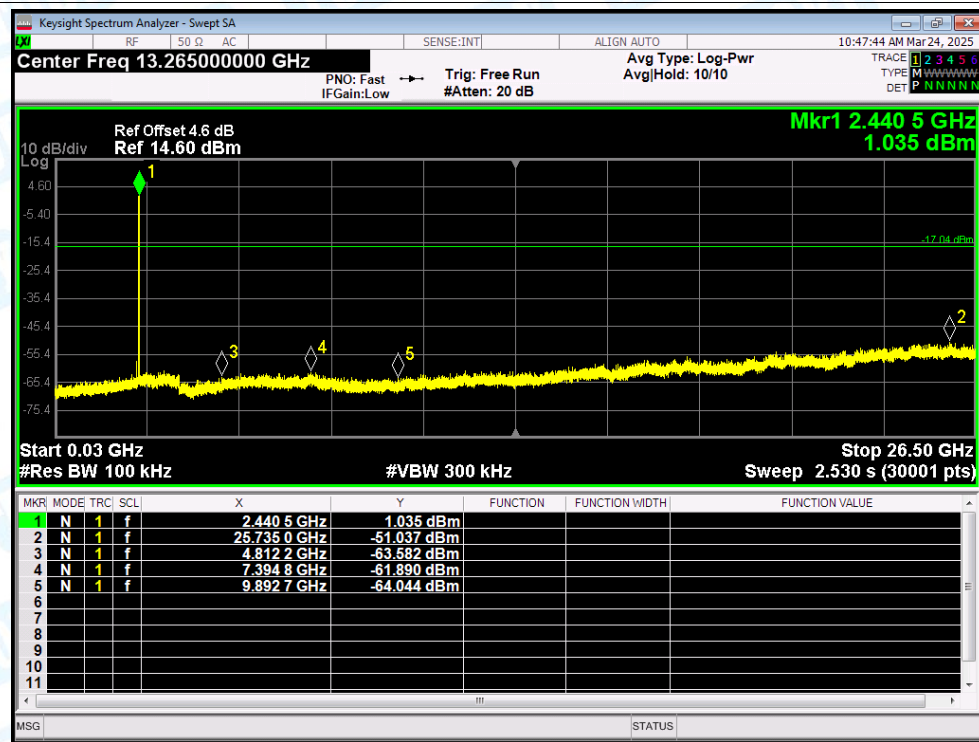
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



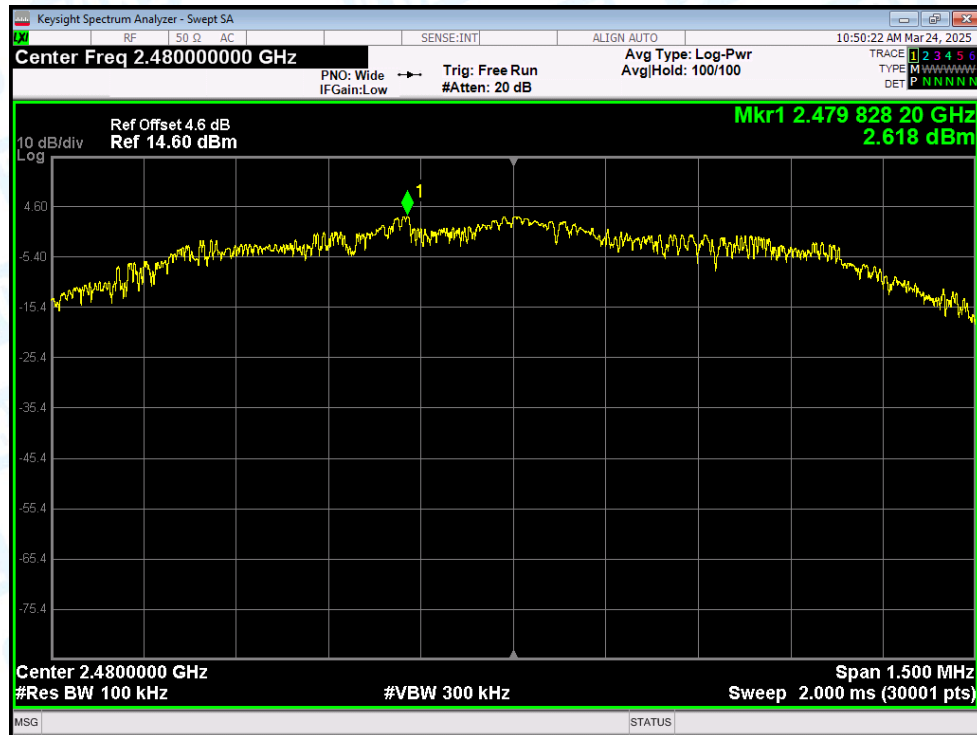
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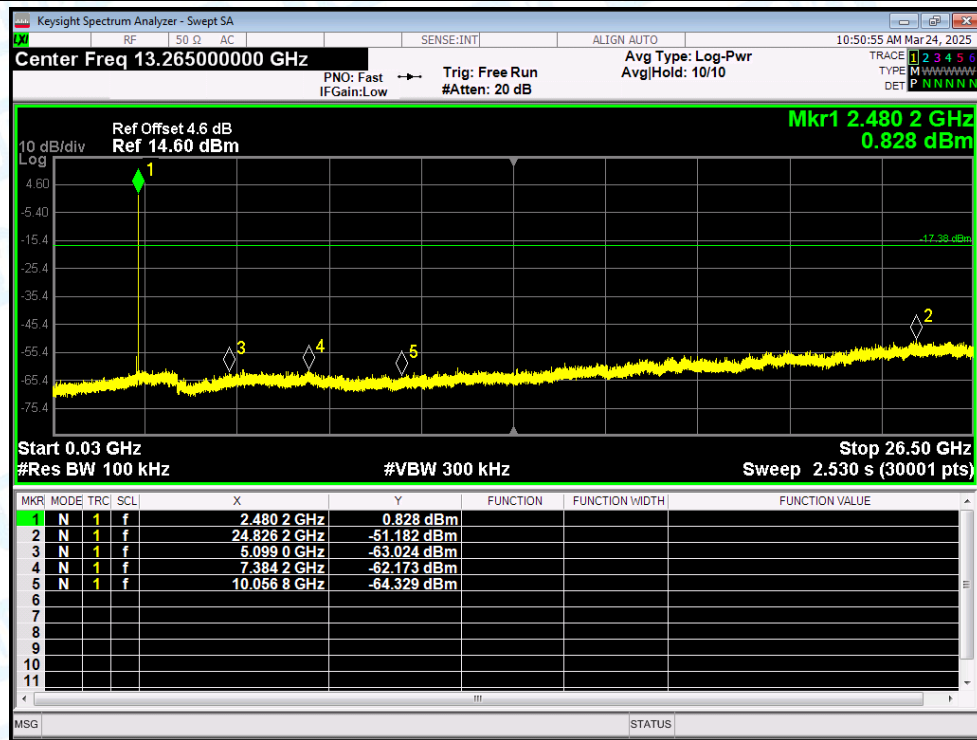
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

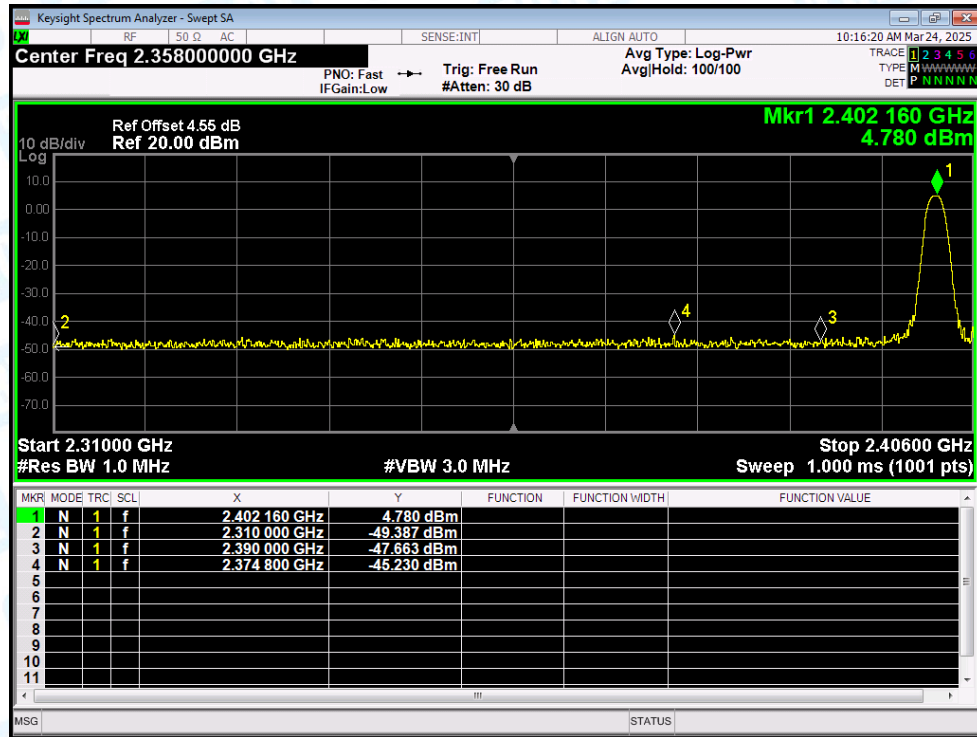


8. Restrict Band

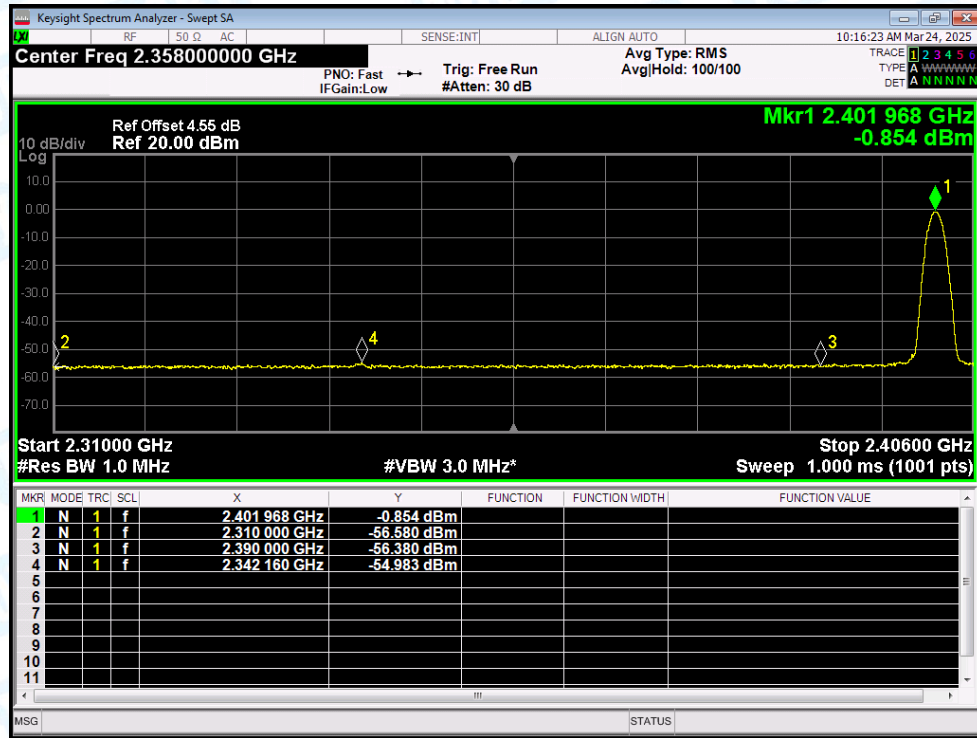
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.39	2	-	47.87	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.58	2	5.06	45.74	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2374.8	-45.23	2	-	52.03	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2342.16	-54.98	2	5.06	47.34	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.66	2	-	49.6	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.38	2	5.06	45.94	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.03	2	-	52.23	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.37	2	5.17	48.06	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2487.352	-40.57	2	-	56.69	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2487.496	-54.07	2	5.17	48.36	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.63	2	-	50.63	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.01	2	5.17	46.42	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.44	2	-	48.82	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.49	2	5.06	45.83	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2324.112	-44.61	2	-	52.65	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2388.336	-55.02	2	5.06	47.3	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.74	2	-	49.52	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.33	2	5.06	45.99	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-43.36	2	-	53.9	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-53.8	2	5.06	48.52	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2487.712	-41.15	2	-	56.11	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-53.8	2	5.06	48.52	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.96	2	-	50.3	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.6	2	5.06	46.72	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.6	2	-	49.66	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.59	2	5.06	45.73	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2384.208	-43.78	2	-	53.48	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2341.776	-55.09	2	5.06	47.23	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.42	2	-	49.84	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.27	2	5.06	47.05	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-38.49	2	-	58.77	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.2	2	5.06	48.12	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-38.49	2	-	58.77	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.968	-53.13	2	5.06	49.19	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.21	2	-	51.05	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-56.04	2	5.06	46.28	Average	54	Pass

Test Graphs

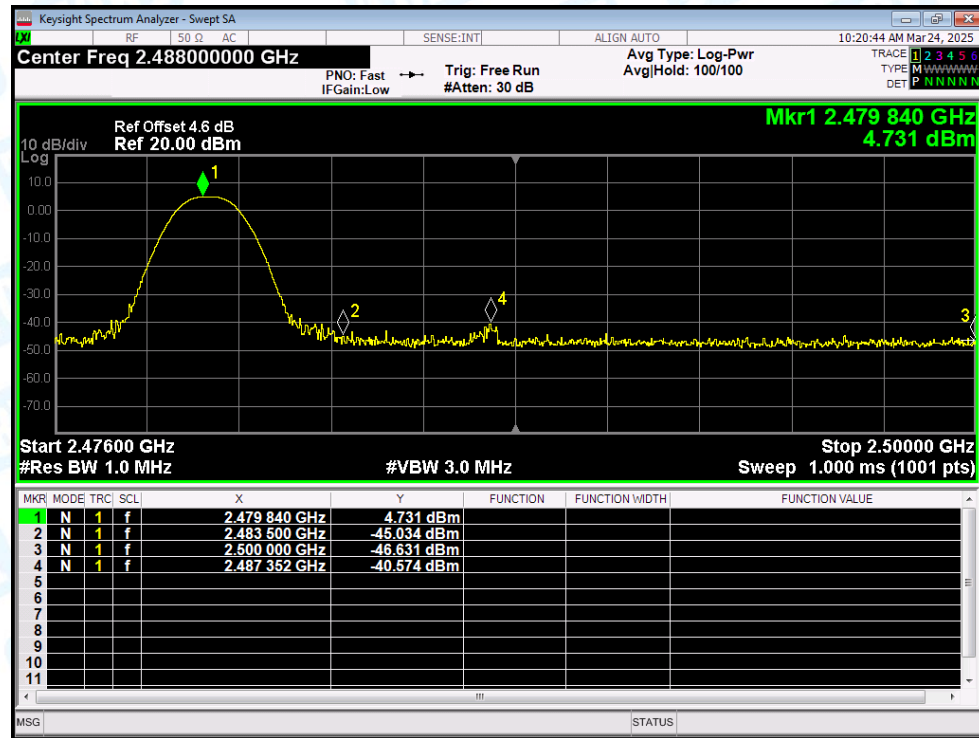
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



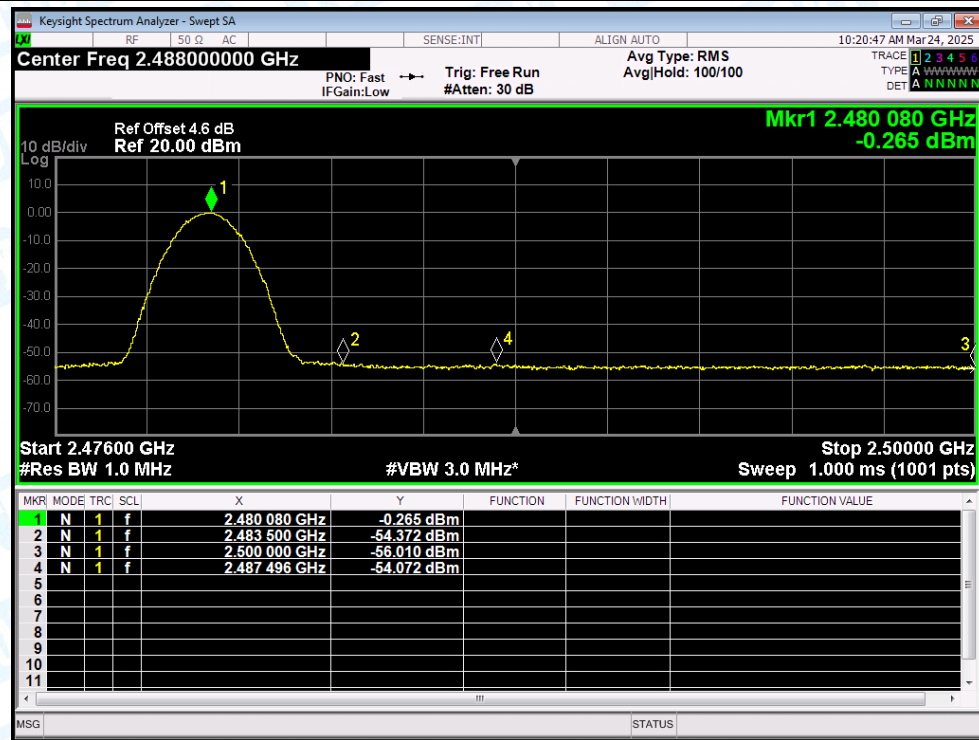
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



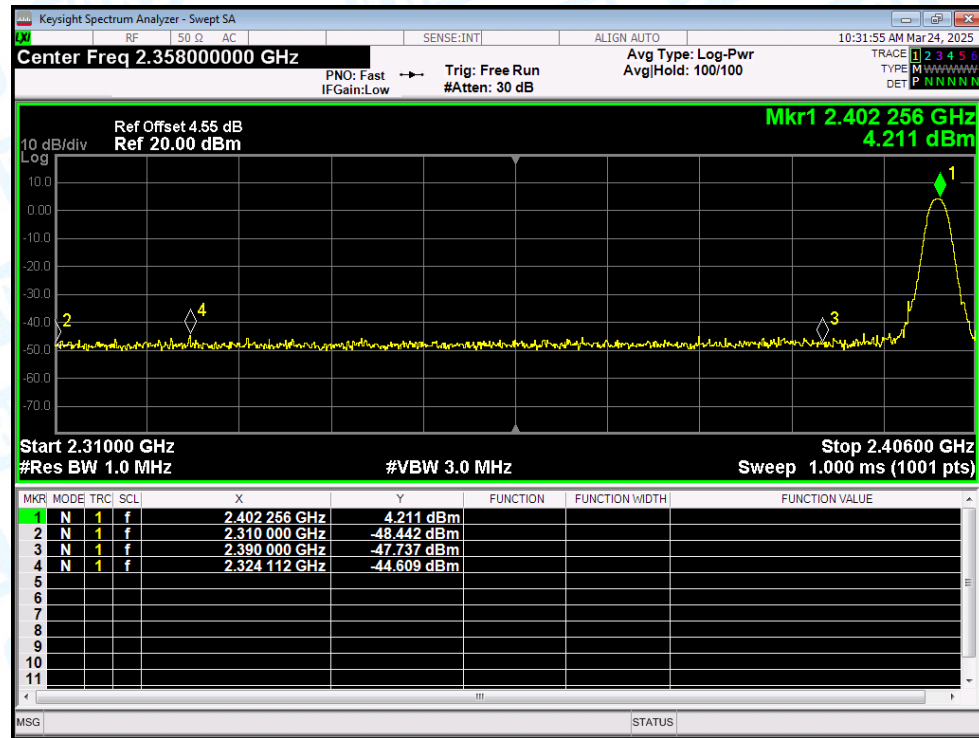
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



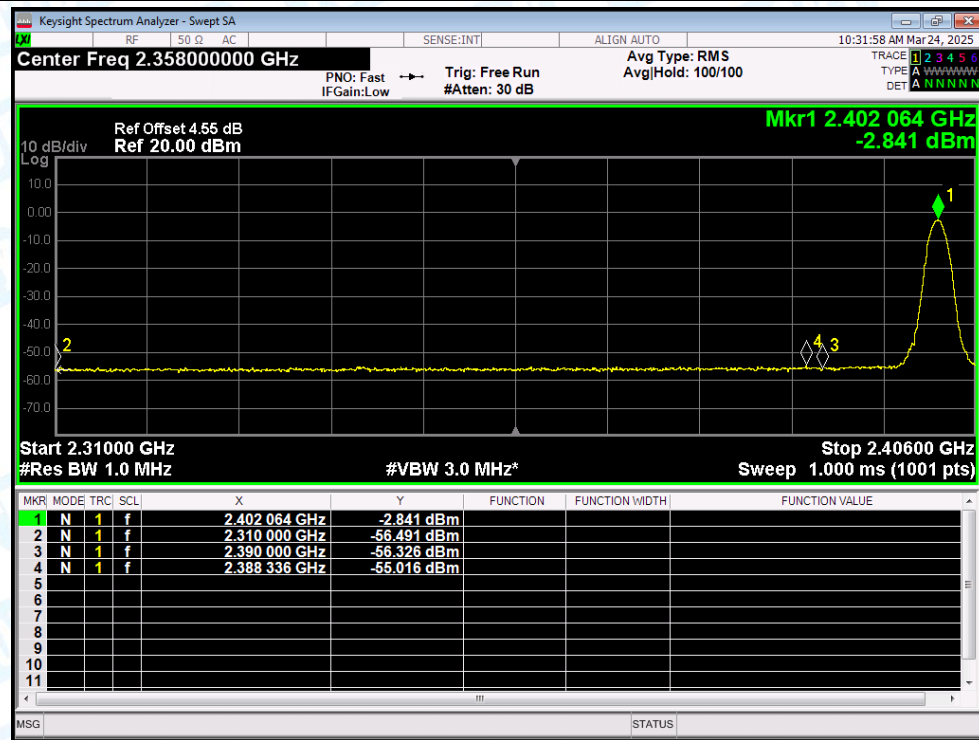
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



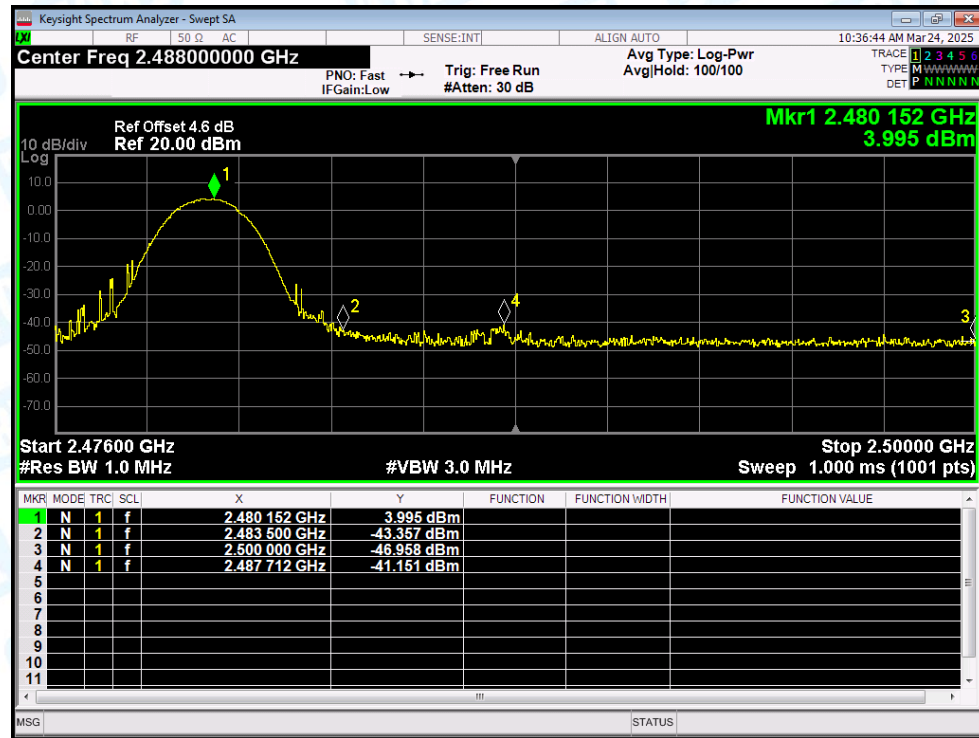
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



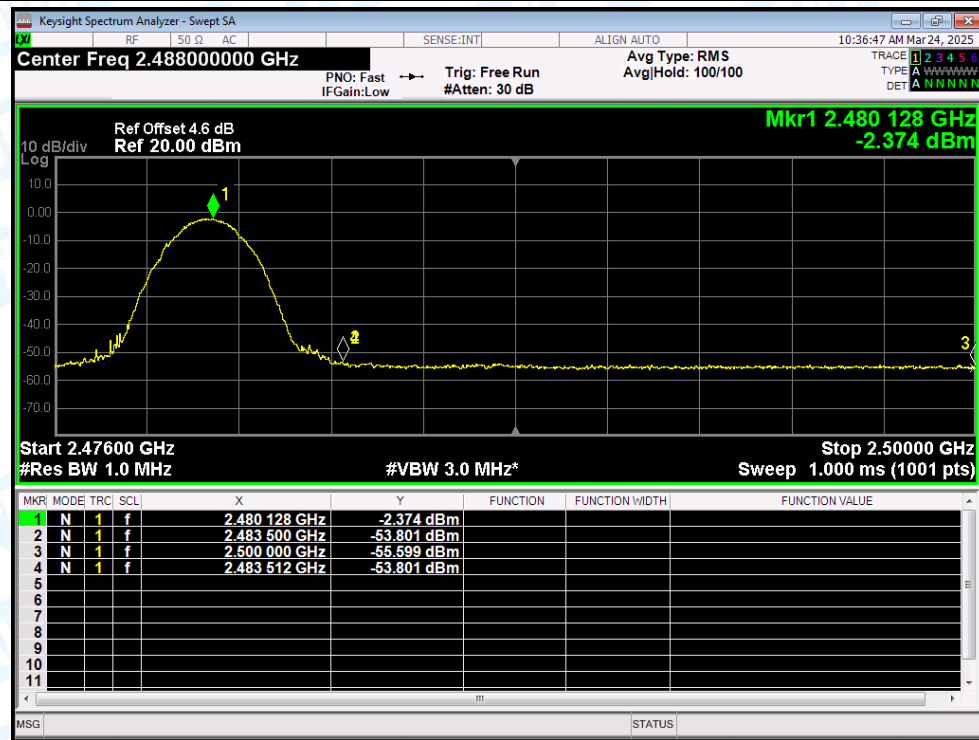
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



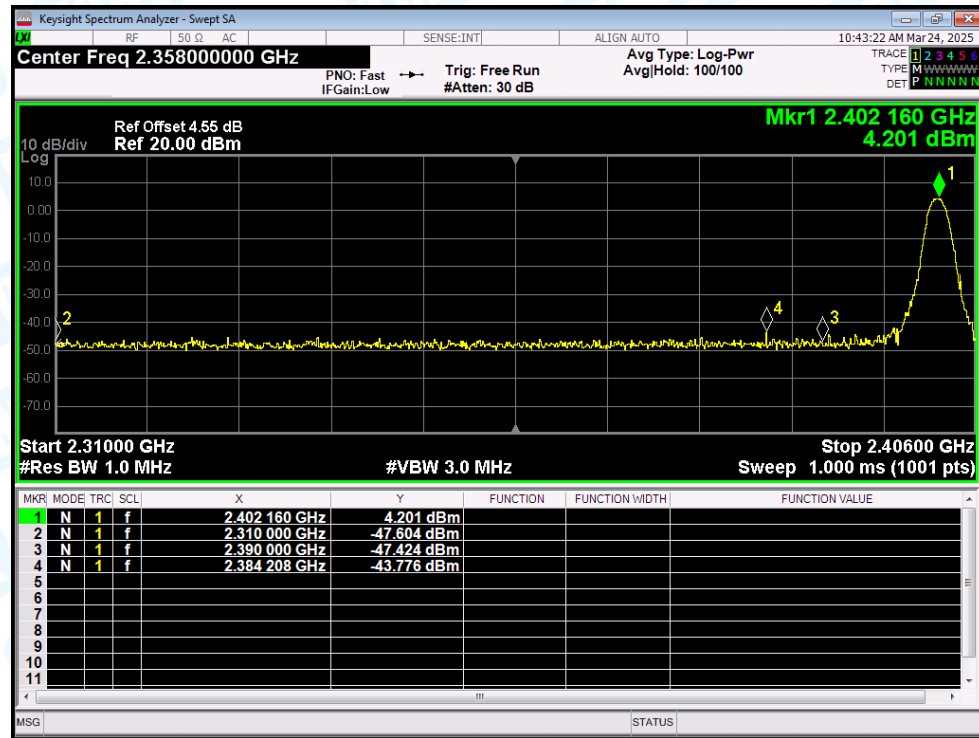
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



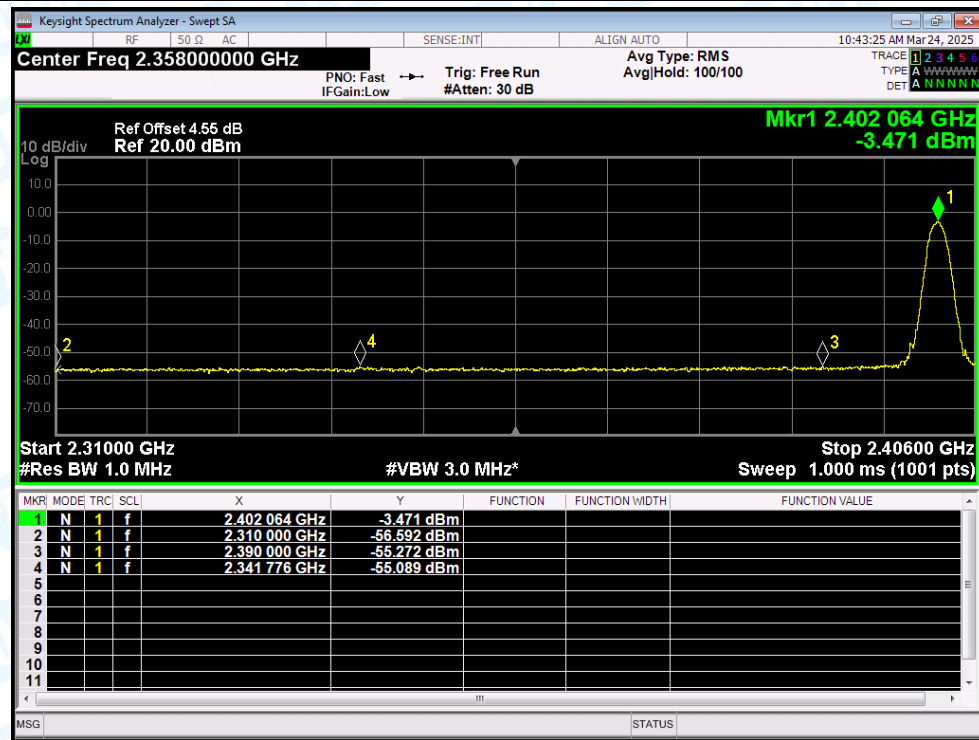
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



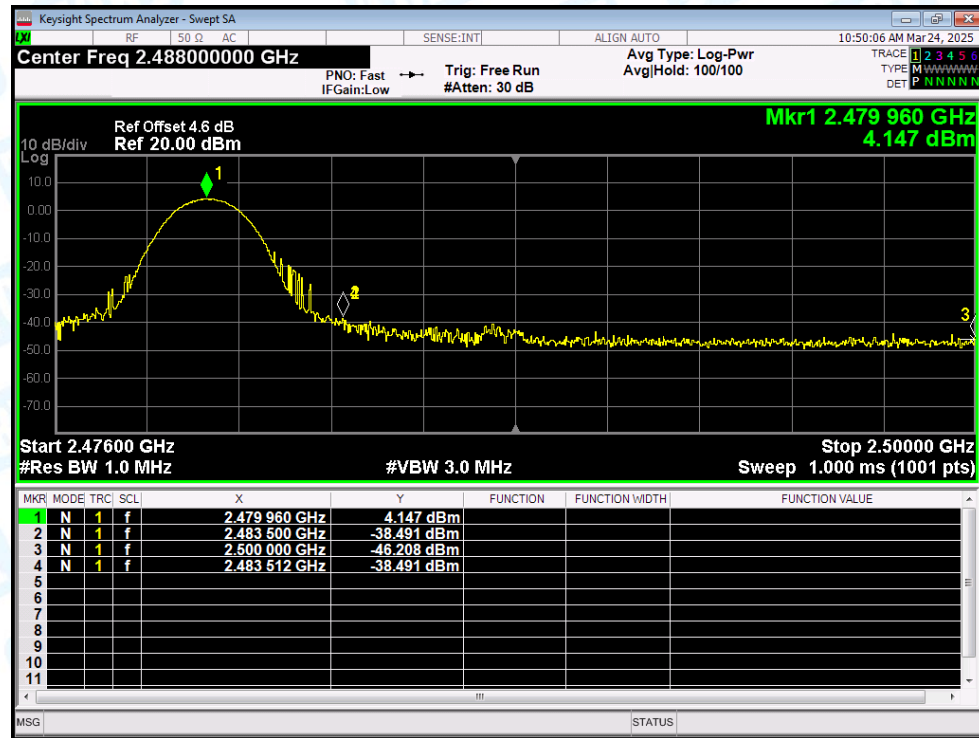
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



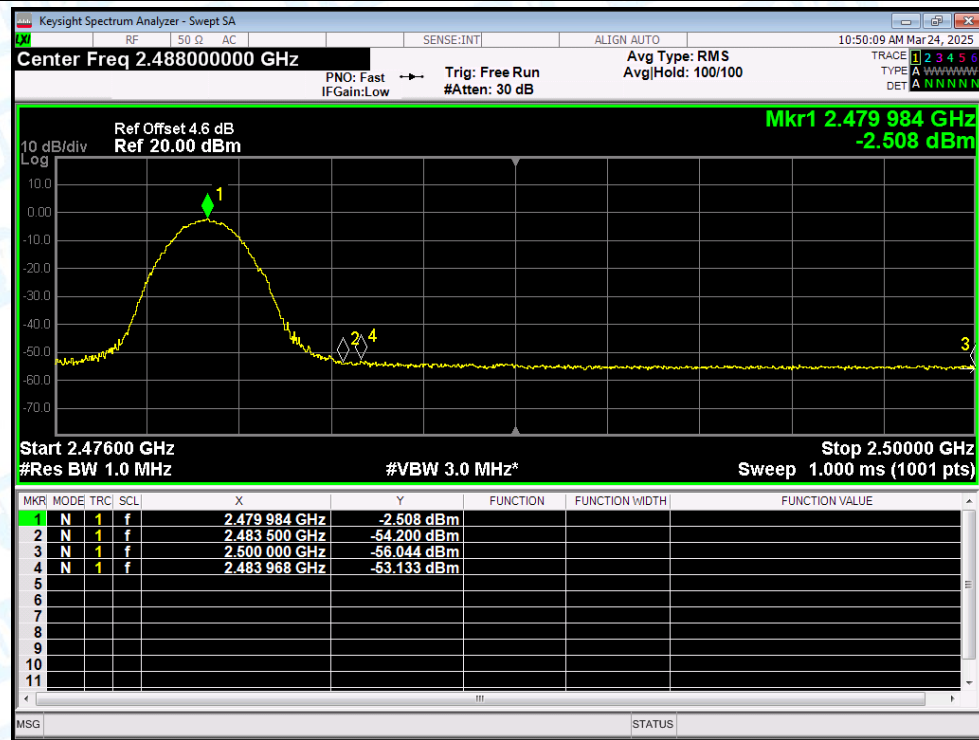
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

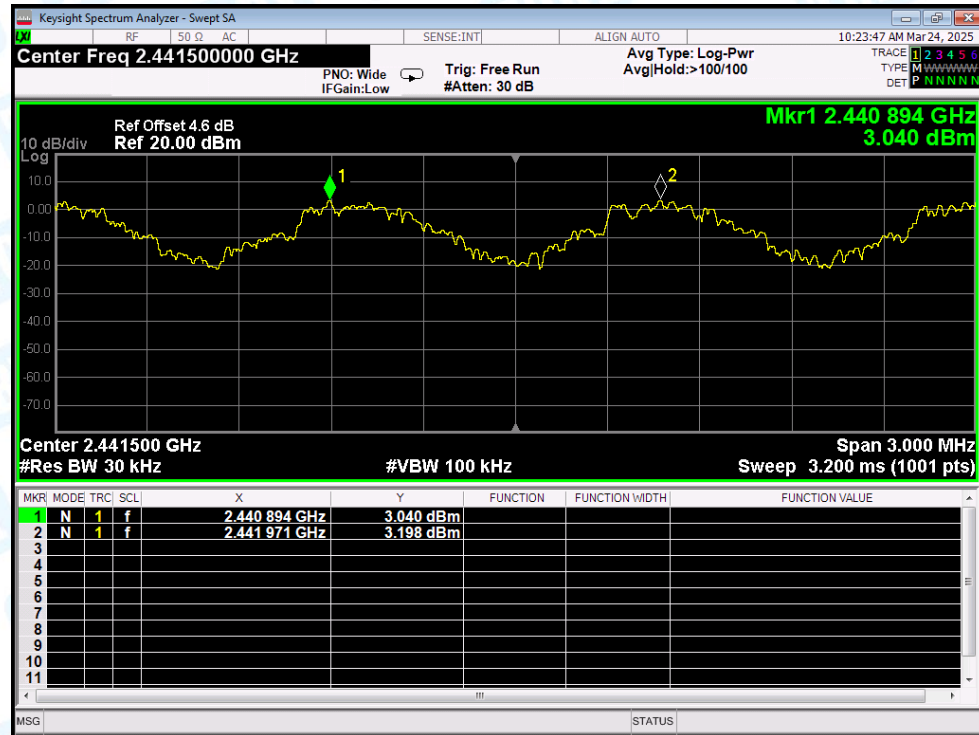


9. Carrier Frequencies Separation

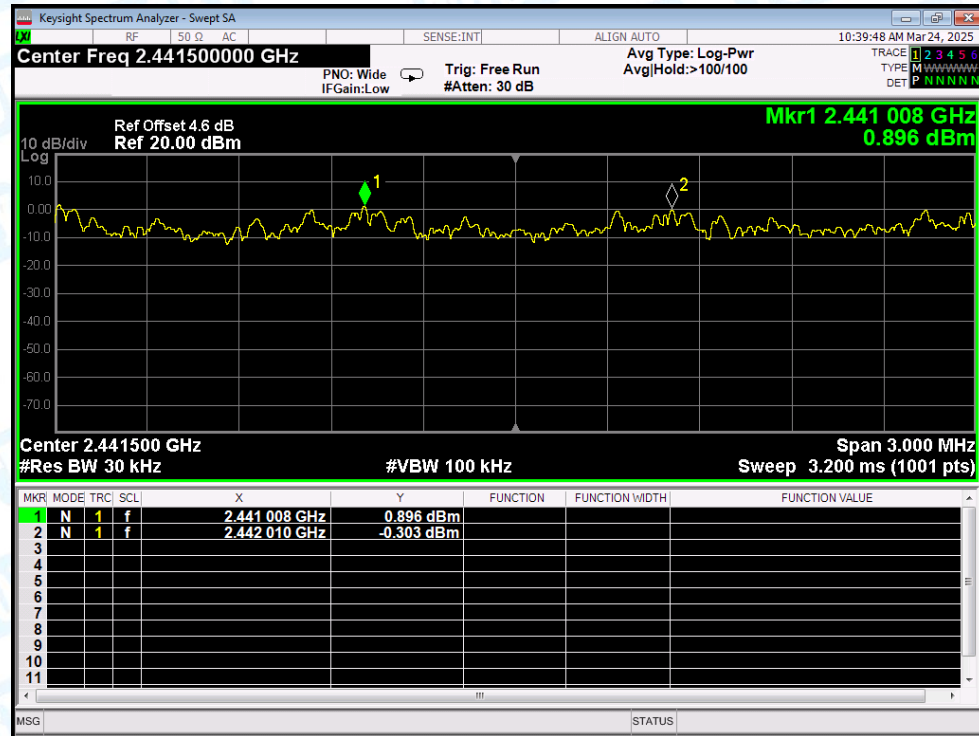
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.894	2441.971	1.077	0.633	Pass
NVNT	2-DH1	Ant1	2441.008	2442.01	1.002	1.000	Pass
NVNT	3-DH1	Ant1	2441.032	2442.028	0.996	0.973	Pass

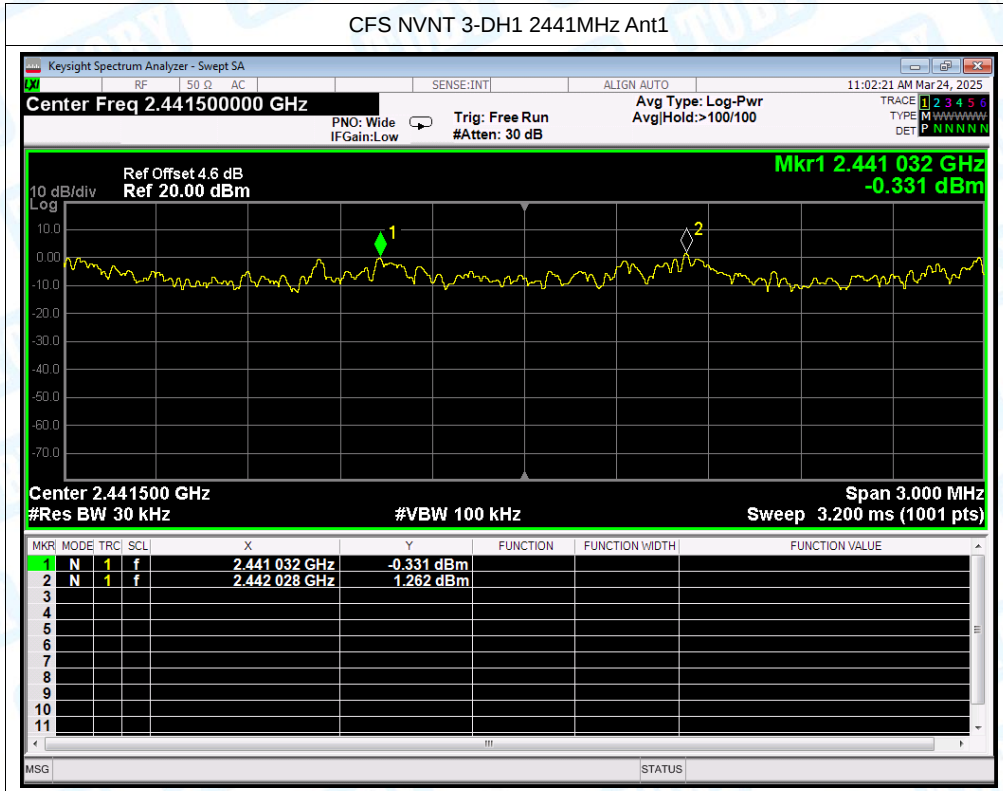
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



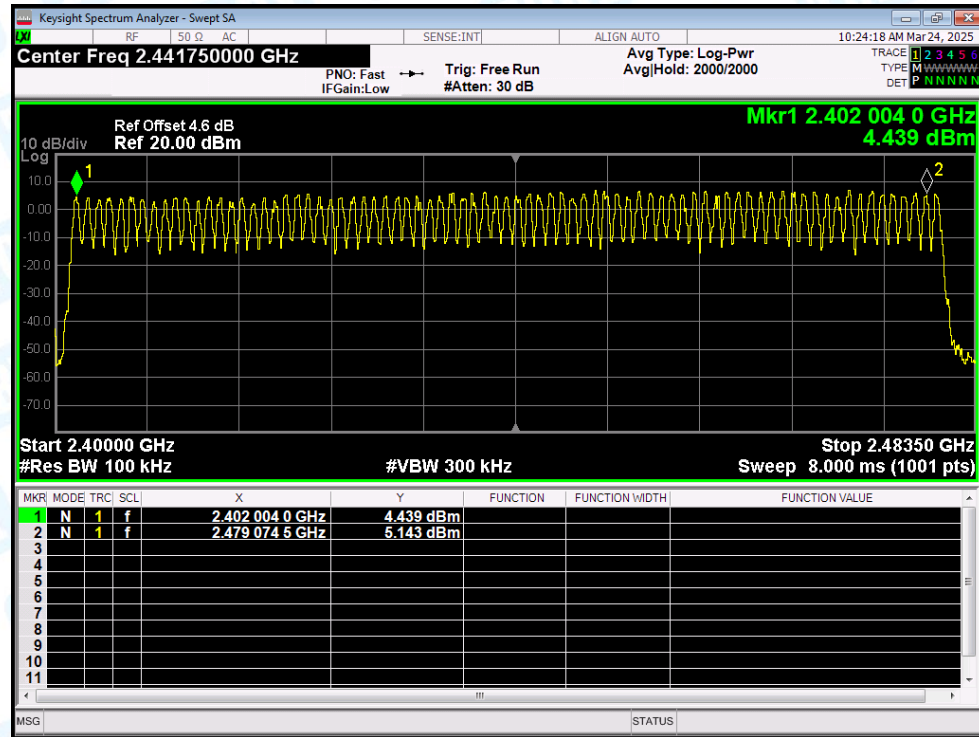


10. Number of Hopping Channel

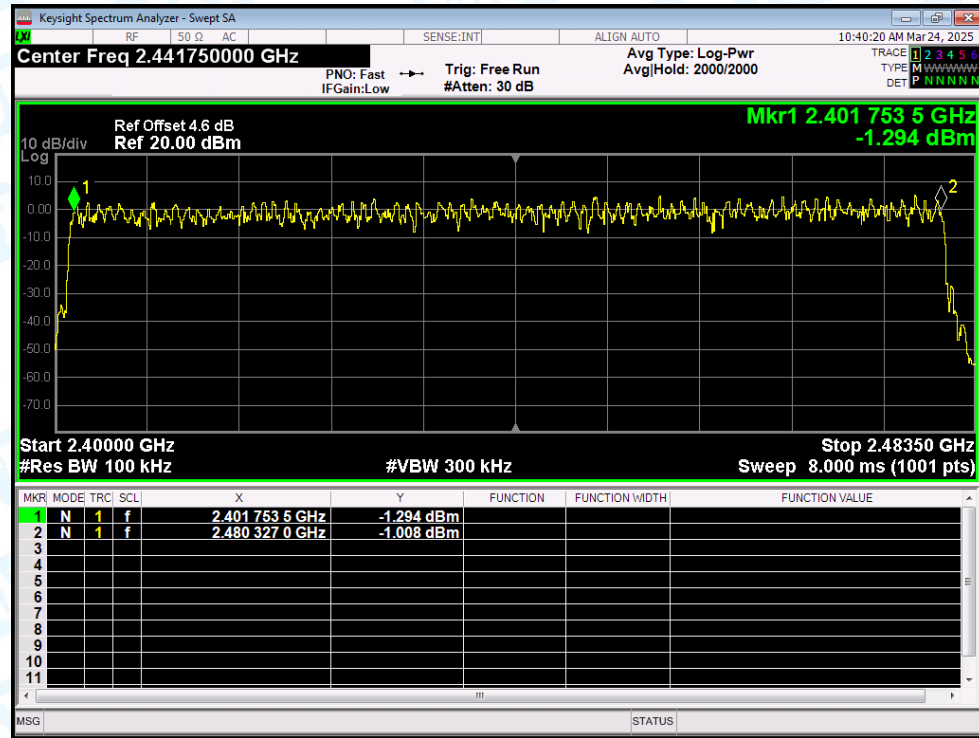
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

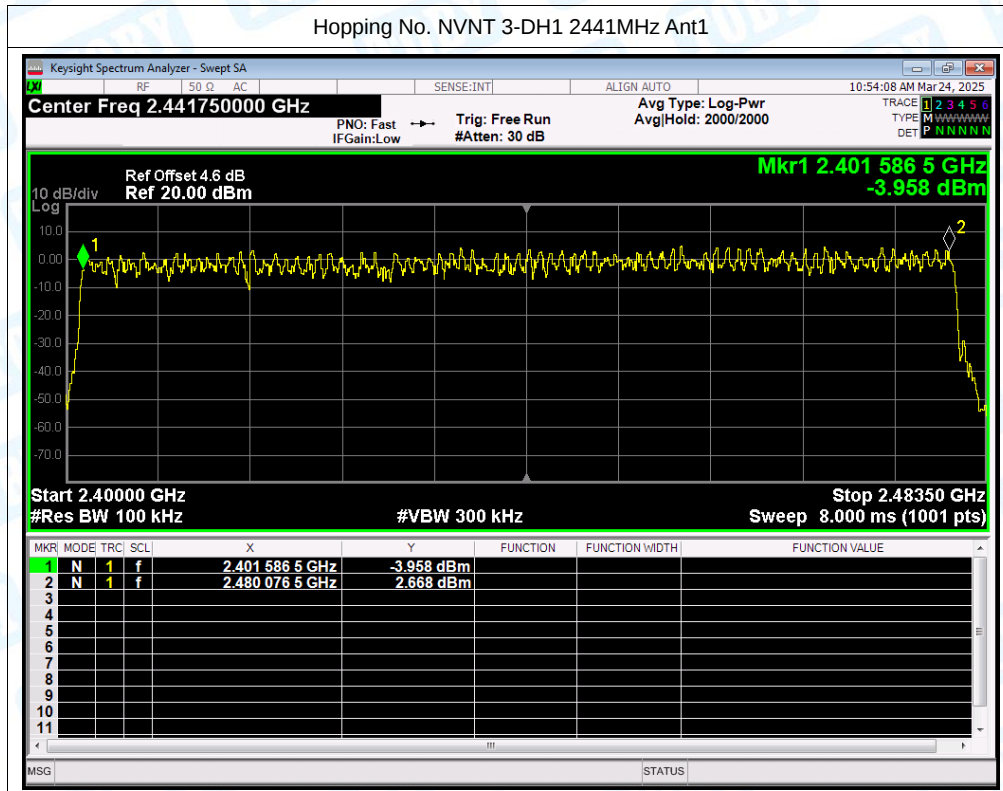
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



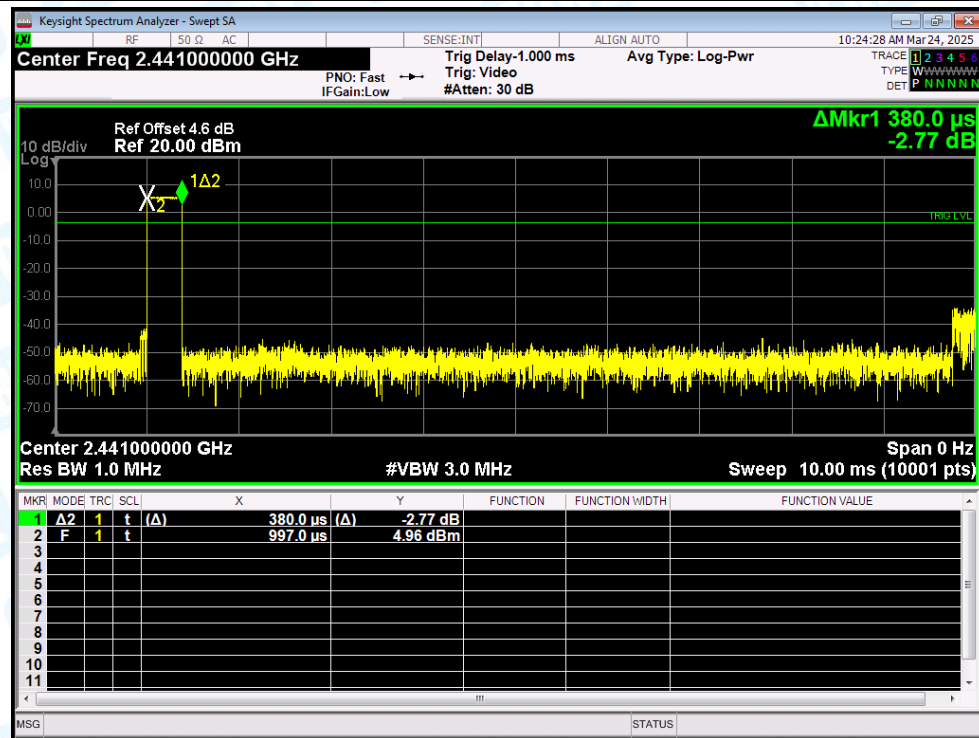


11. Dwell Time

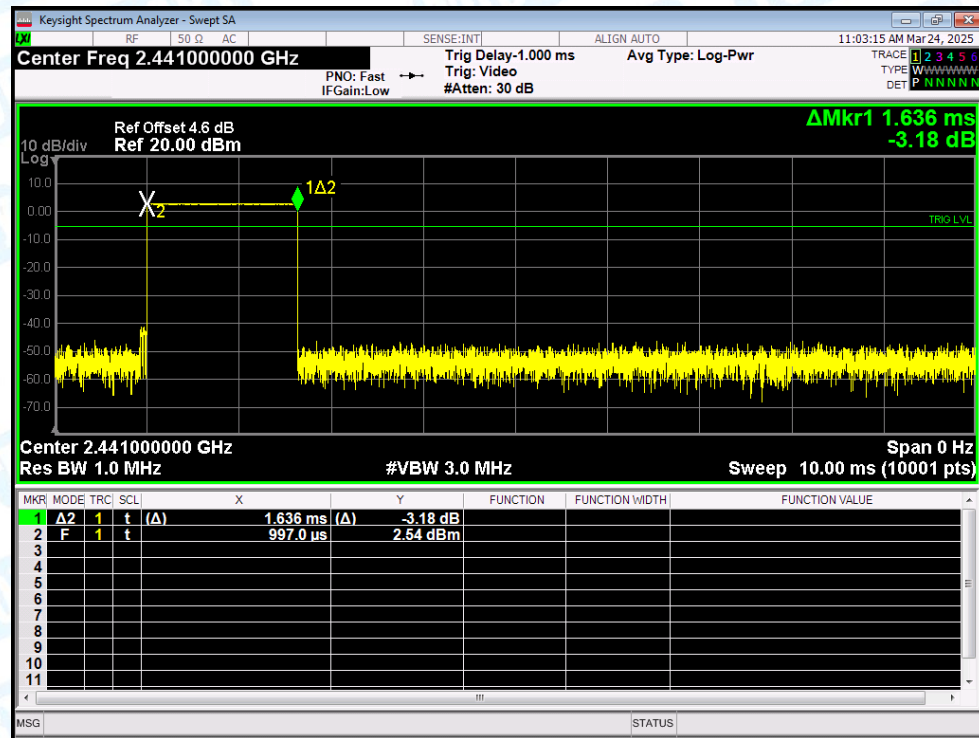
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.38	121.6	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.889	308.16	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.39	124.8	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.64	262.4	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.892	308.48	31600	400	Pass

Test Graphs

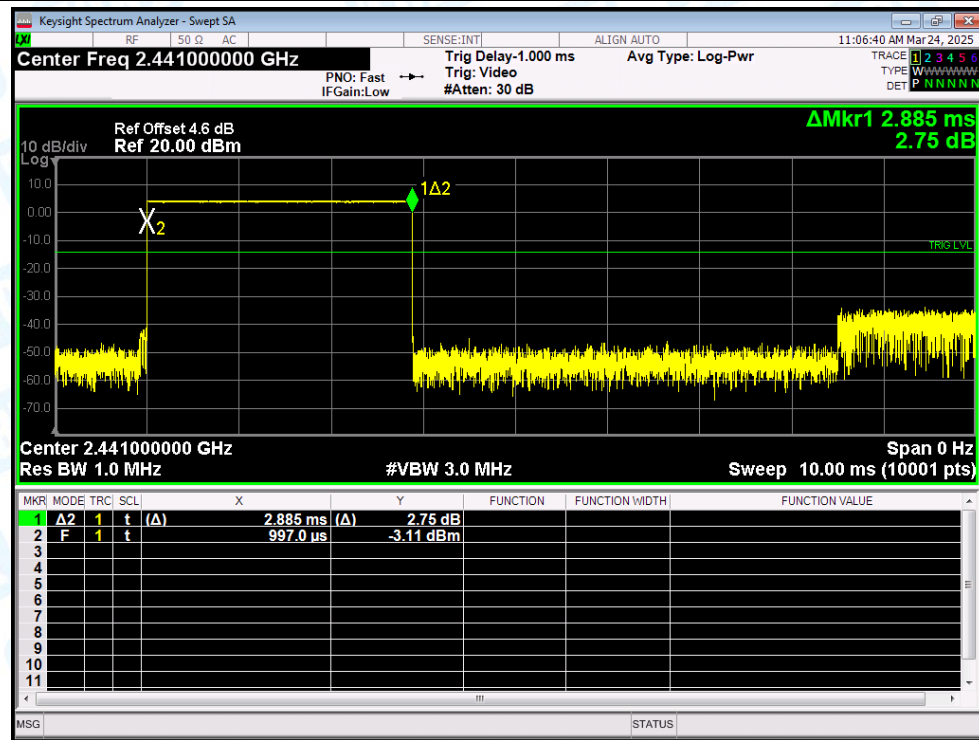
Dwell NVNT 1-DH1 2441MHz Ant1



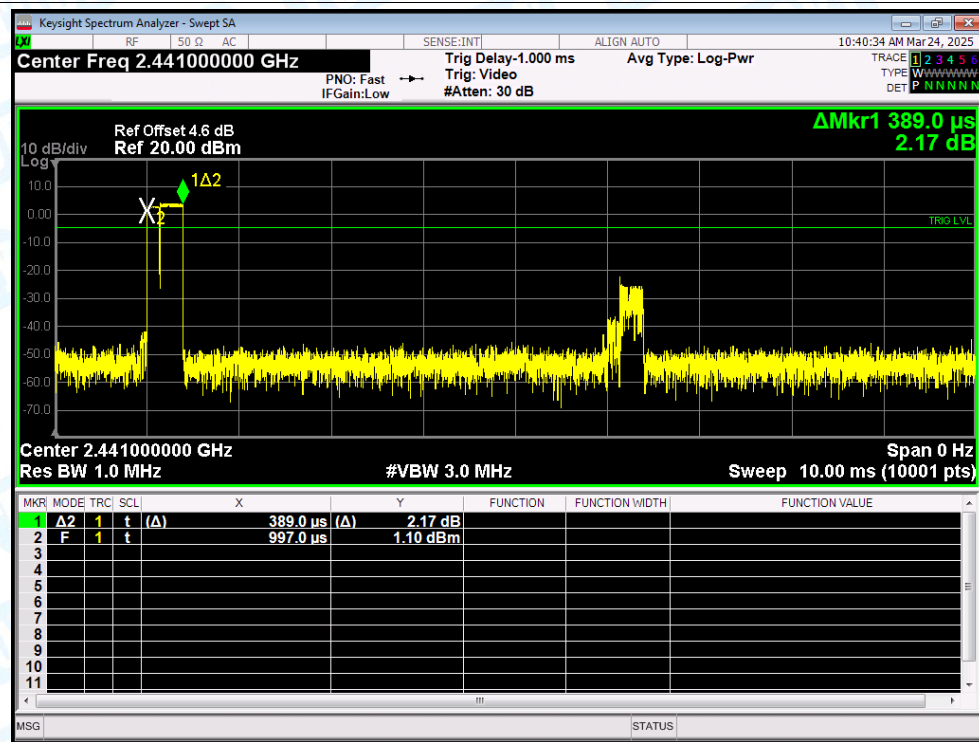
Dwell NVNT 1-DH3 2441MHz Ant1



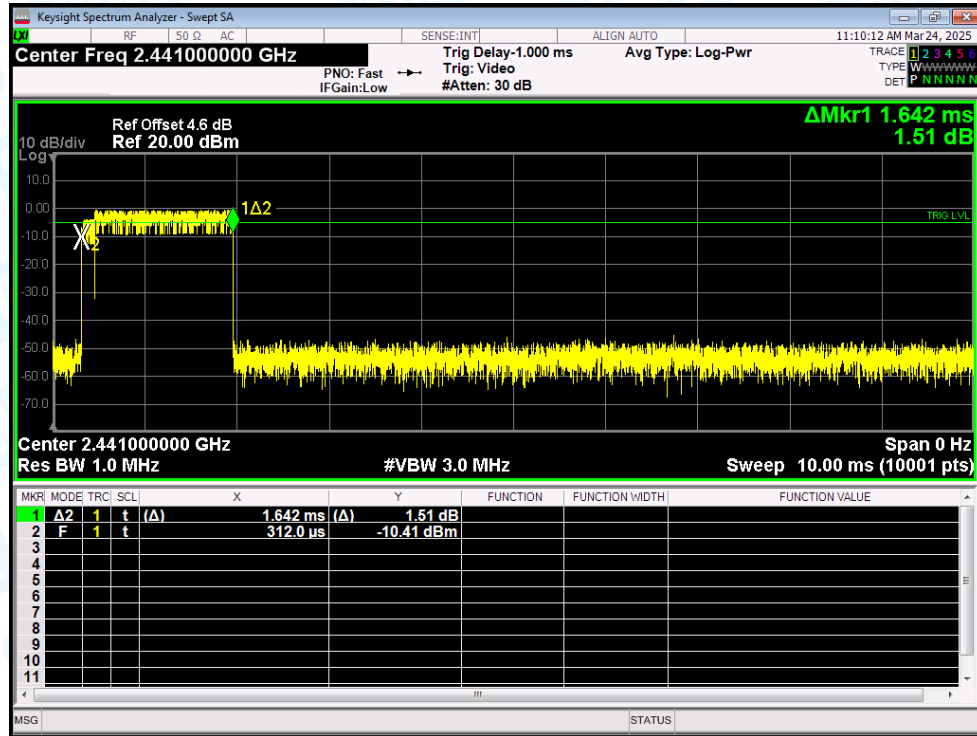
Dwell NVNT 1-DH5 2441MHz Ant1



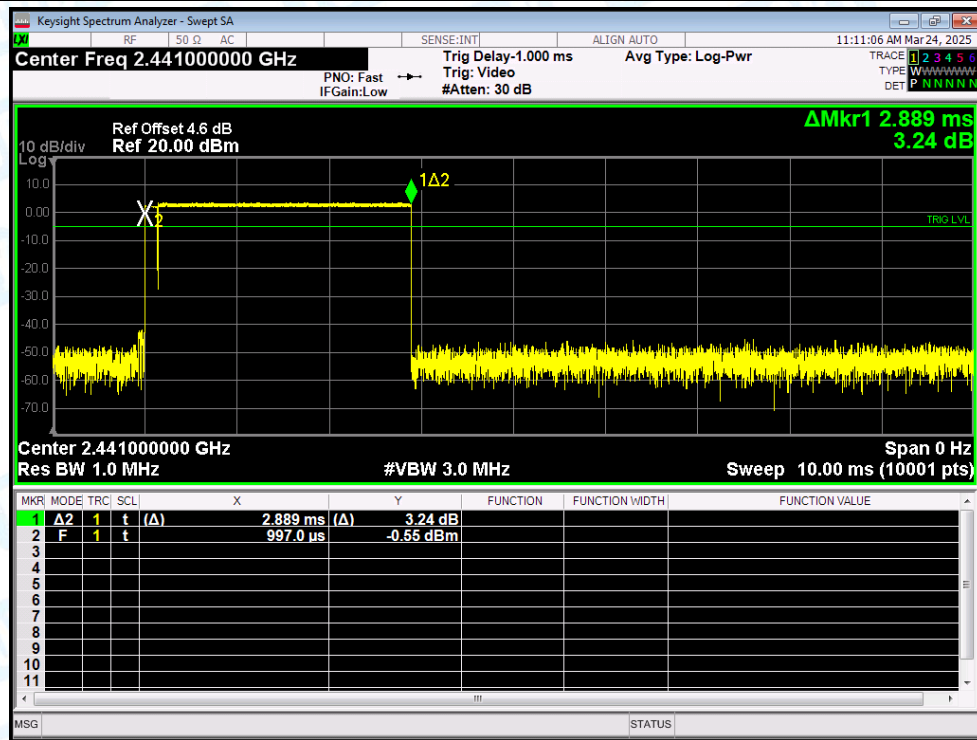
Dwell NVNT 2-DH1 2441MHz Ant1



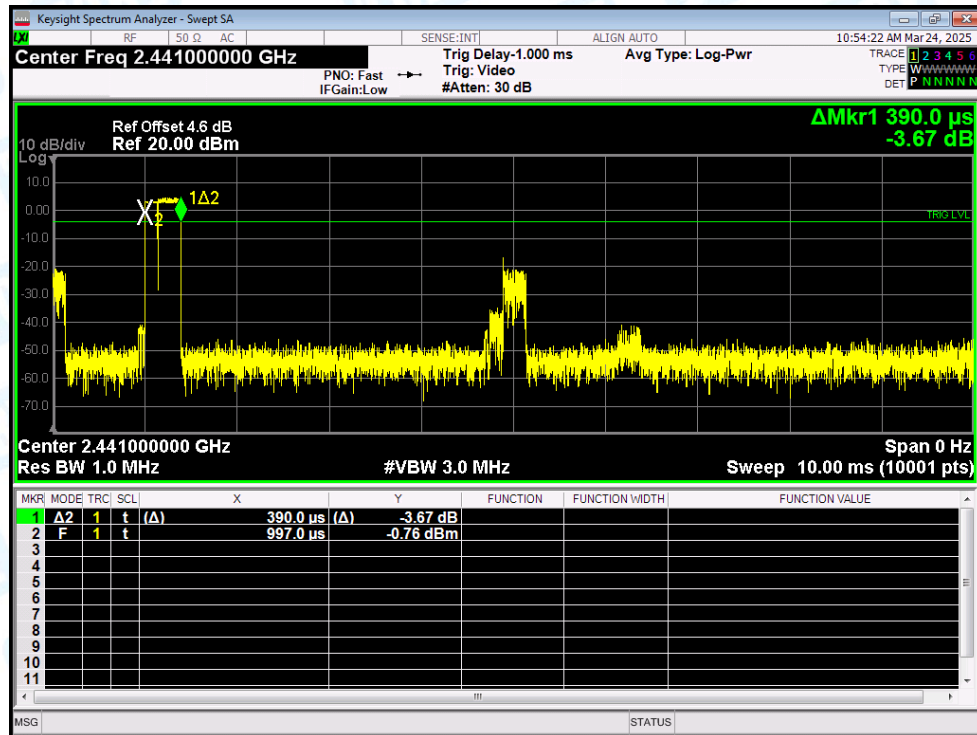
Dwell NVNT 2-DH3 2441MHz Ant1



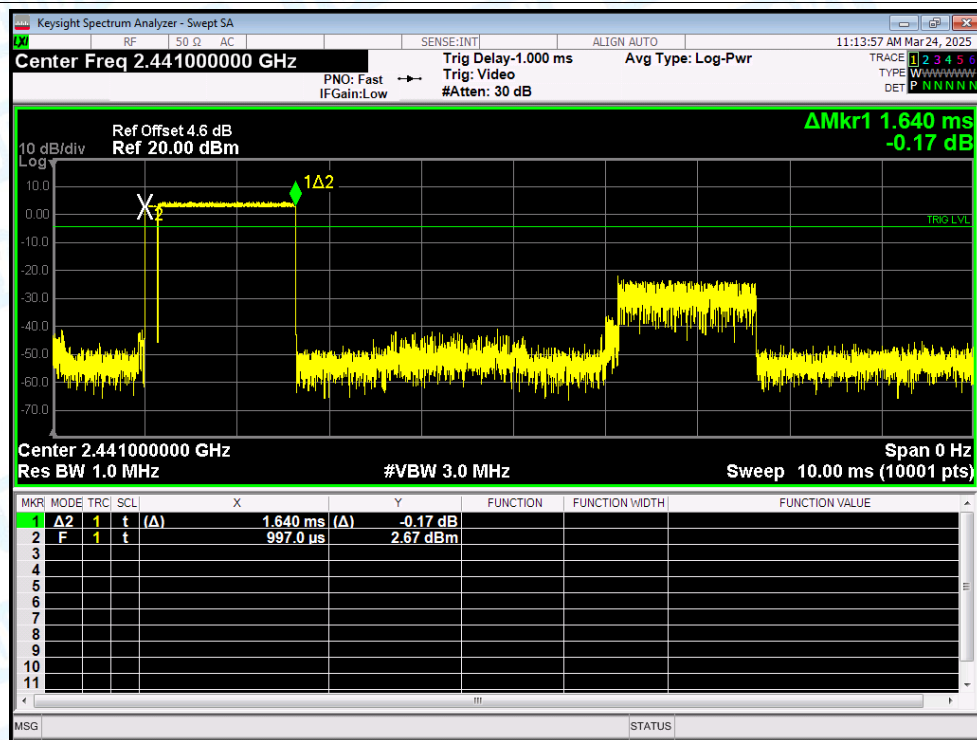
Dwell NVNT 2-DH5 2441MHz Ant1

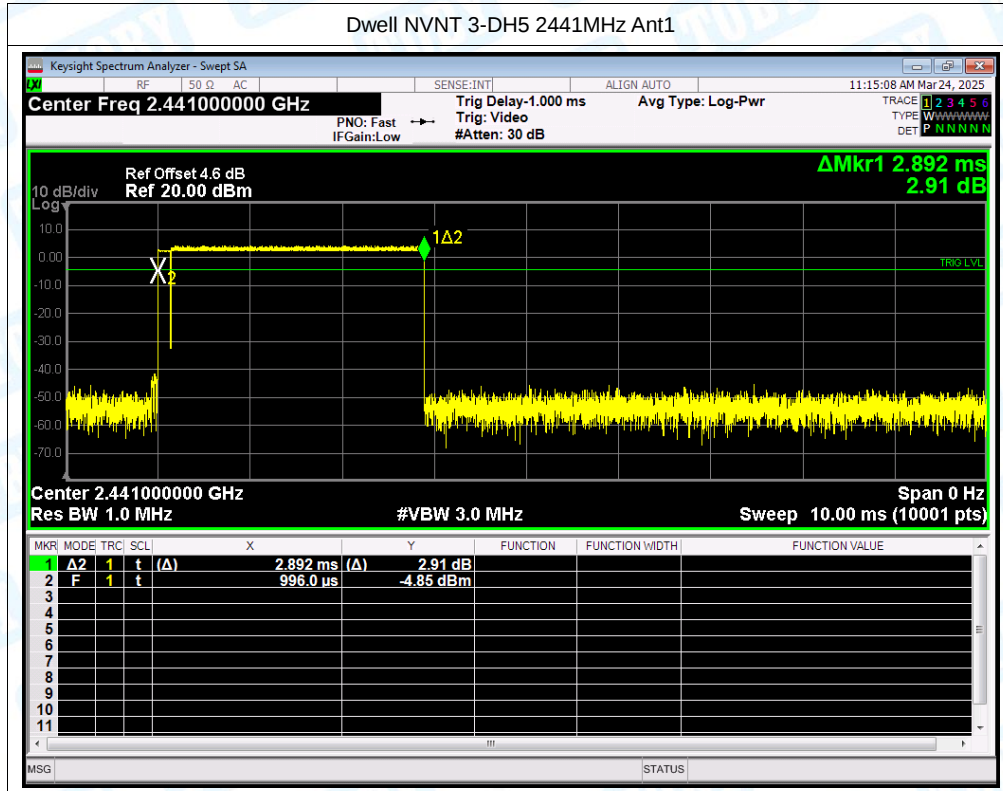


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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