

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

General Description of EUT	
Product Name:	Tablet
Test Model:	Q8
Sample ID:	202203-0192-5-2#
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-202203-0192-91 The report only show the worst case data.	

Contents

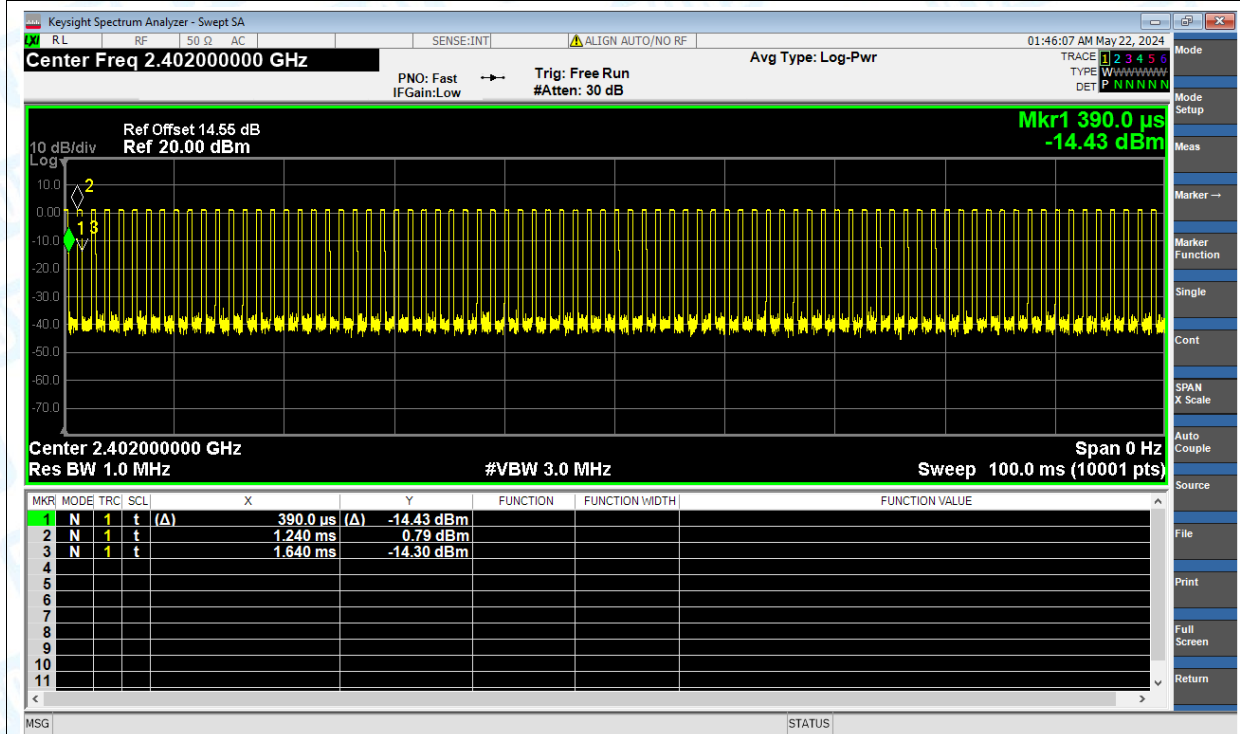
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1. Duty Cycle

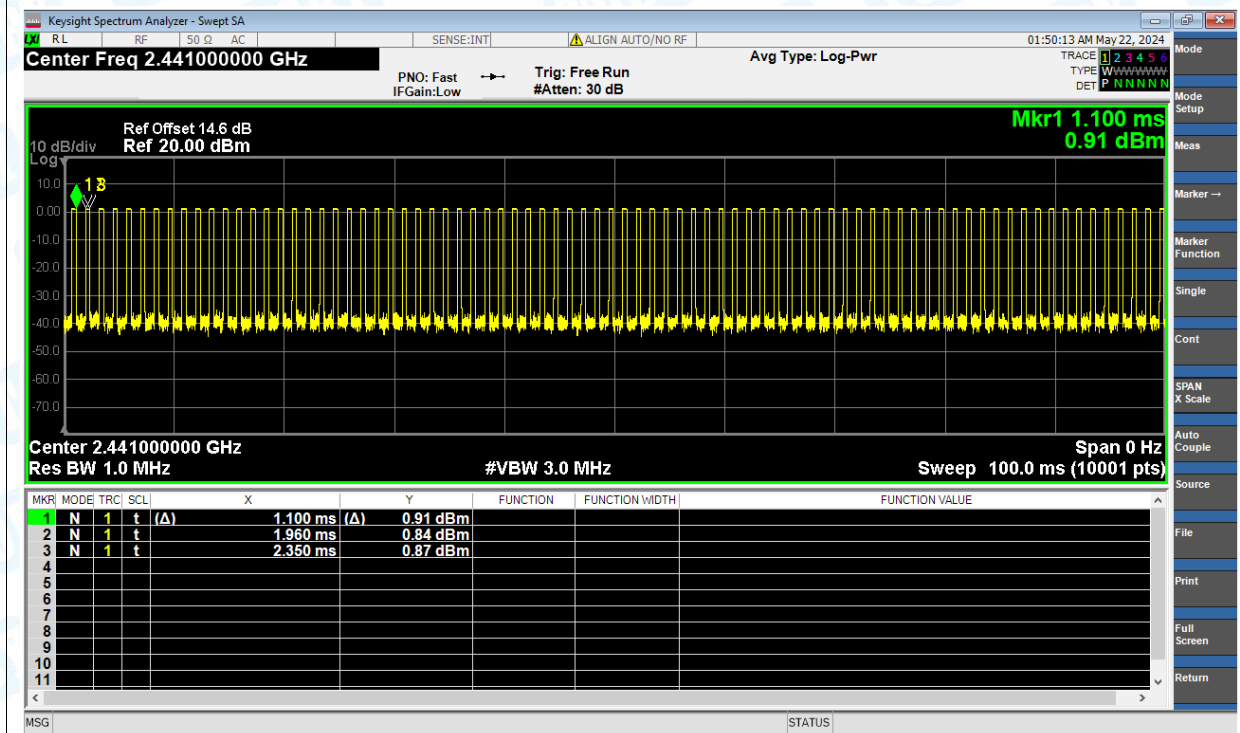
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32	4.95	2.5
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT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

Test Graphs

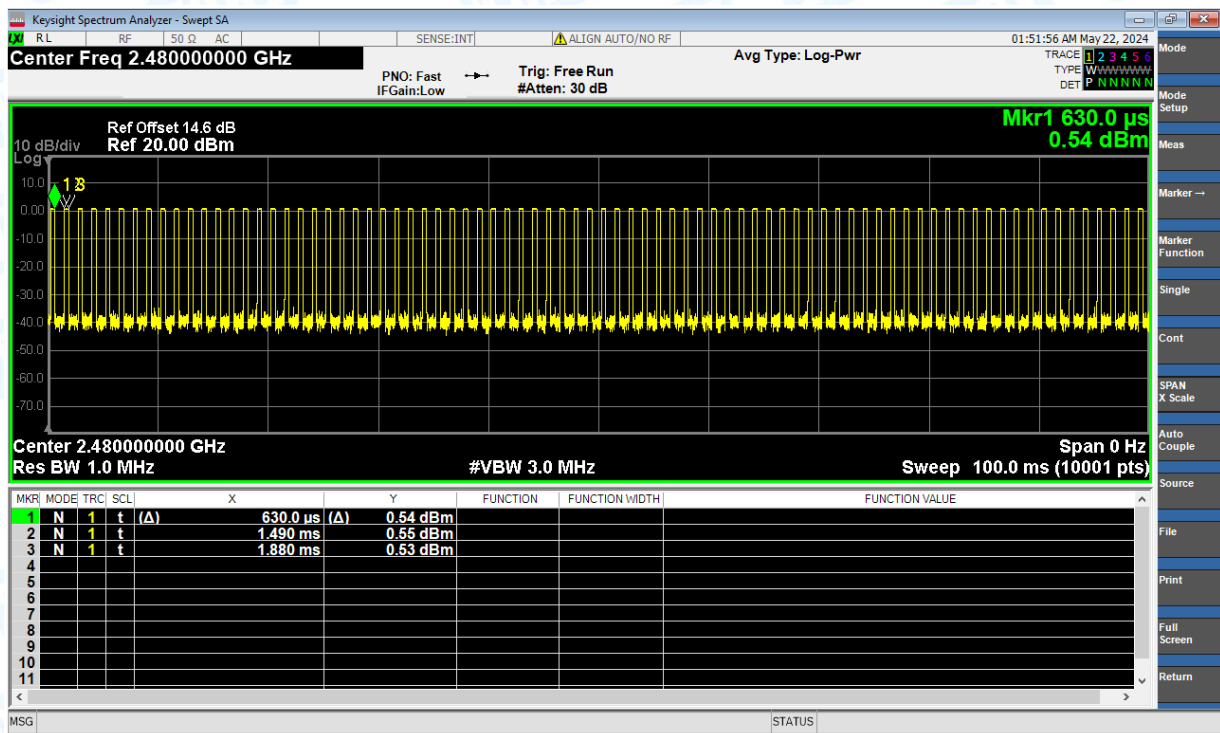
Duty Cycle NVNT 1-DH1 2402MHz Ant1



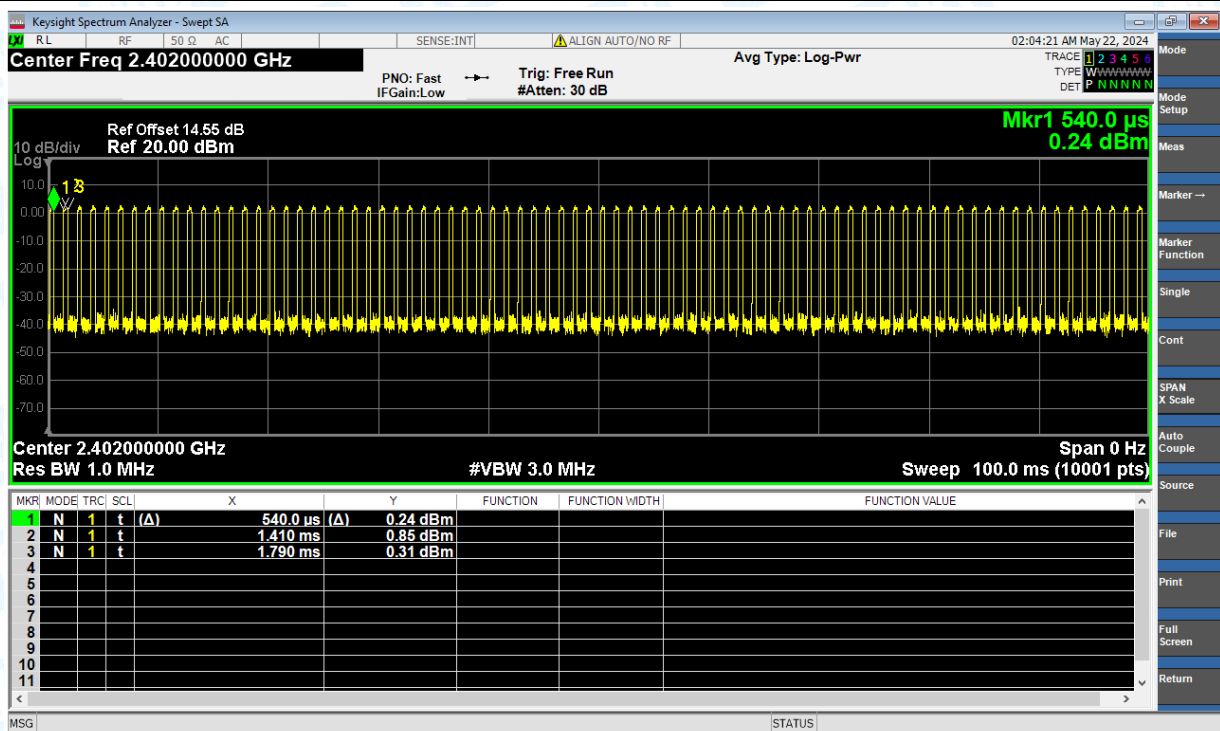
Duty Cycle NVNT 1-DH1 2441MHz Ant1



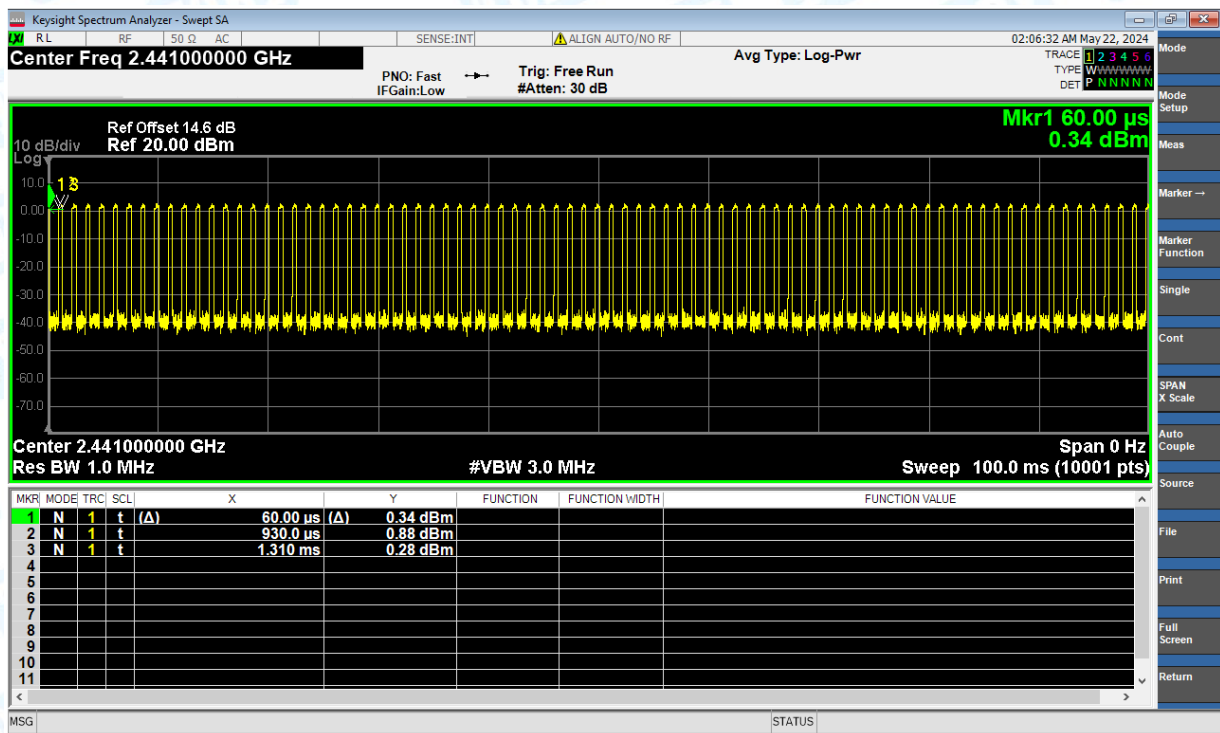
Duty Cycle NVNT 1-DH1 2480MHz Ant1



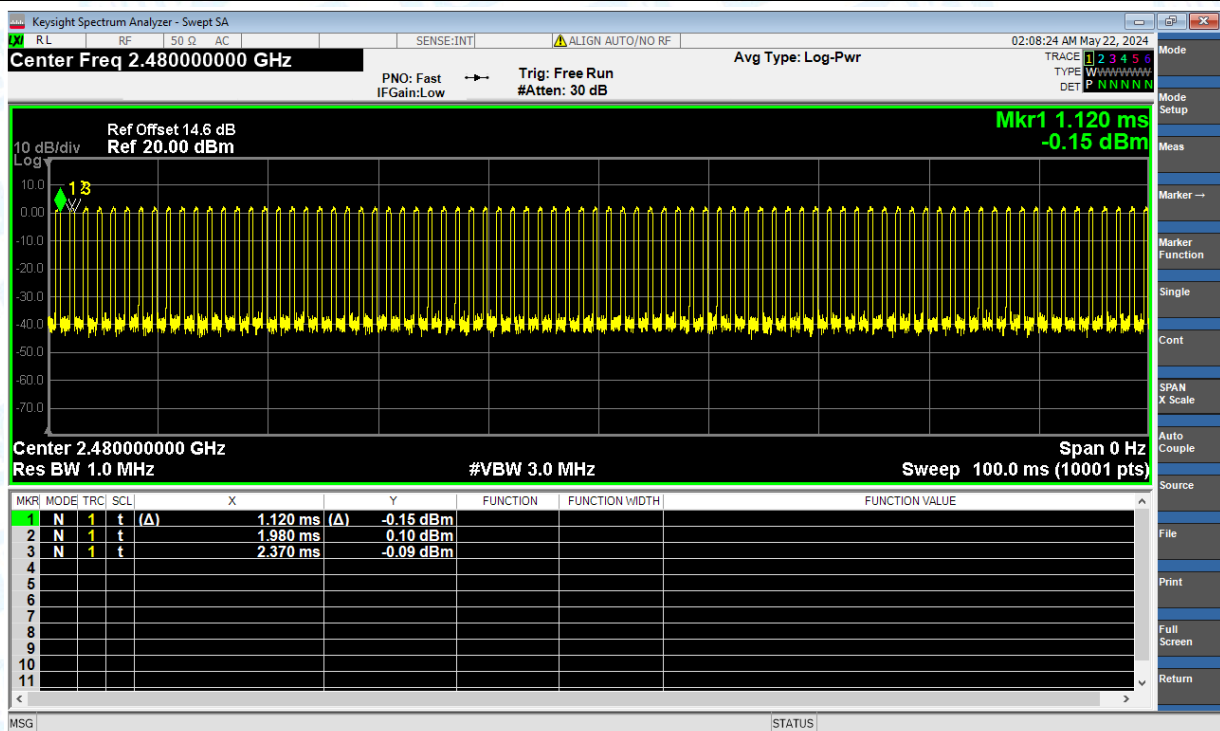
Duty Cycle NVNT 2-DH1 2402MHz Ant1



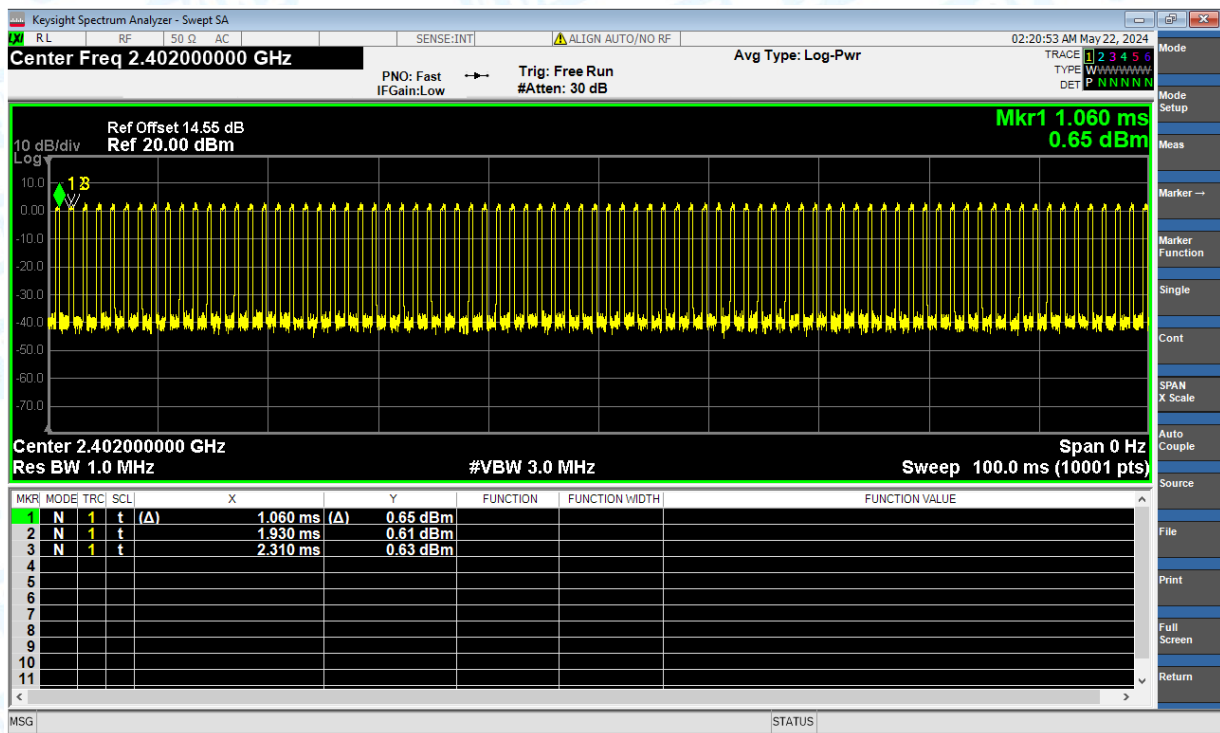
Duty Cycle NVNT 2-DH1 2441MHz Ant1



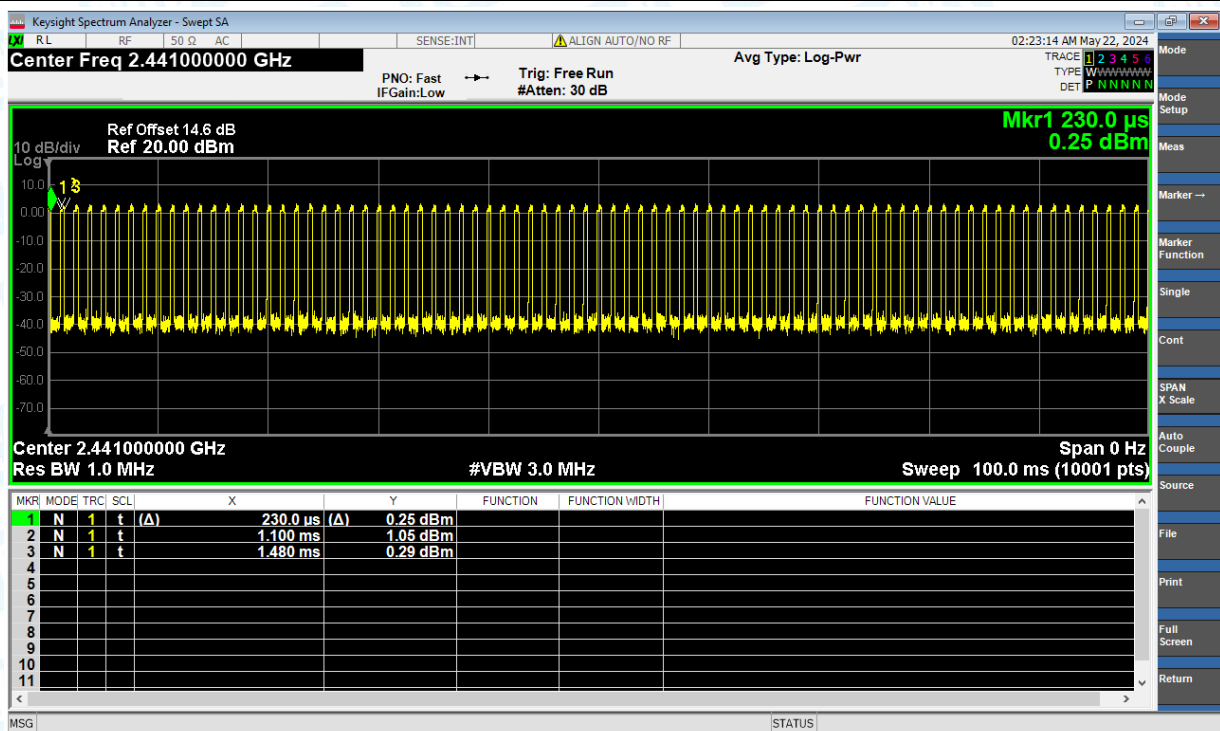
Duty Cycle NVNT 2-DH1 2480MHz Ant1

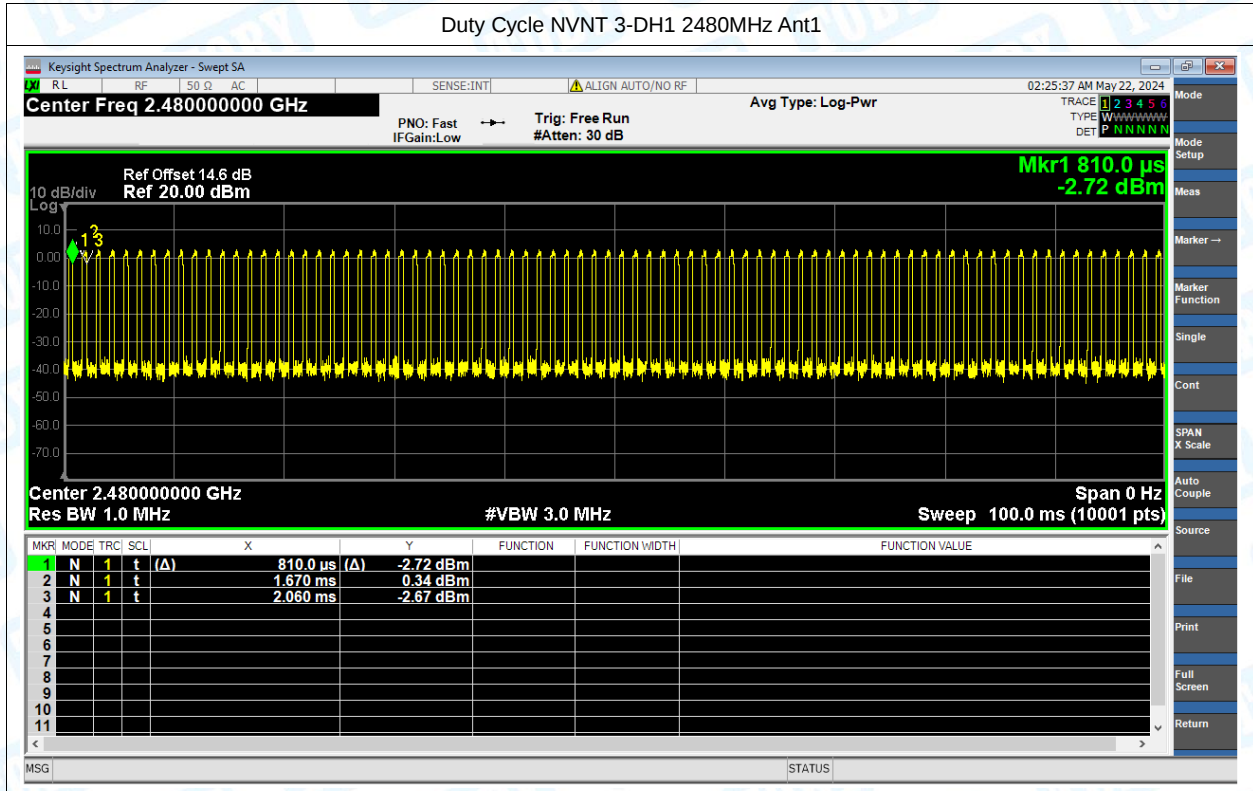


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



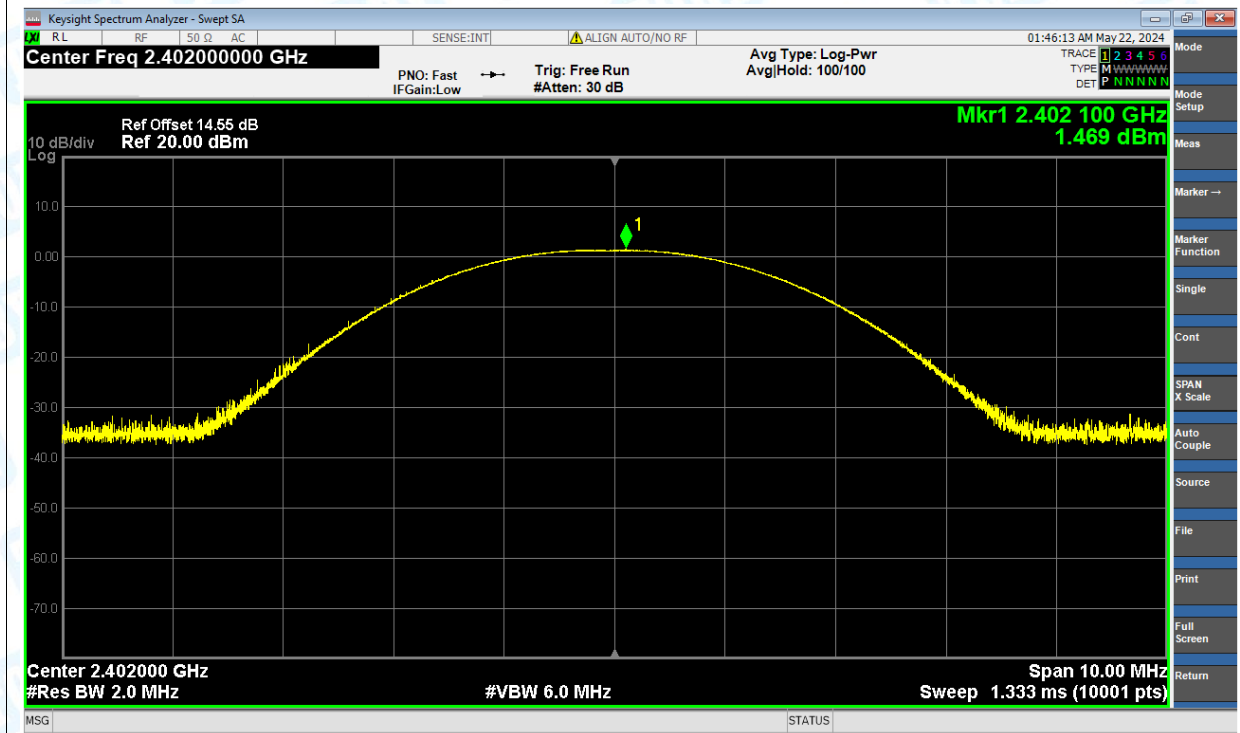


2. Maximum Conducted Output Power

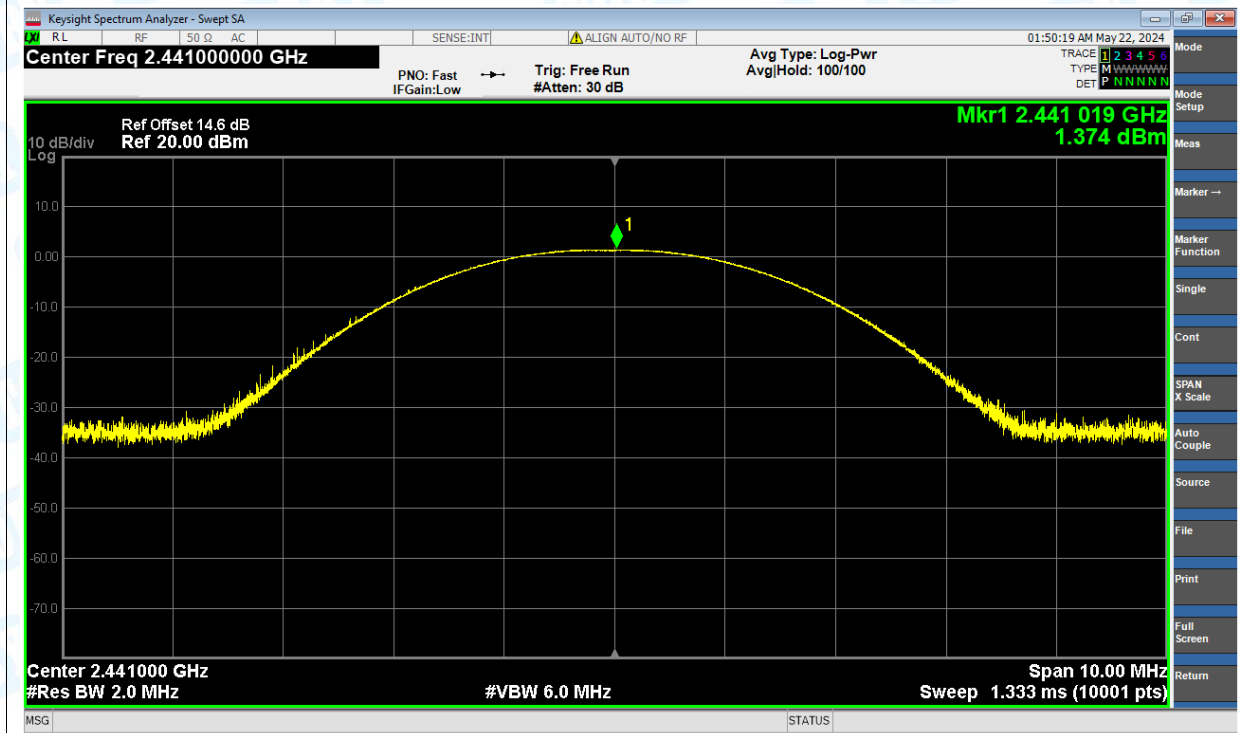
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.469	21	Pass
NVNT	1-DH1	2441	Ant1	1.374	21	Pass
NVNT	1-DH1	2480	Ant1	1.001	21	Pass
NVNT	2-DH1	2402	Ant1	3.118	21	Pass
NVNT	2-DH1	2441	Ant1	3.215	21	Pass
NVNT	2-DH1	2480	Ant1	2.987	21	Pass
NVNT	3-DH1	2402	Ant1	3.457	21	Pass
NVNT	3-DH1	2441	Ant1	3.715	21	Pass
NVNT	3-DH1	2480	Ant1	3.472	21	Pass

Test Graphs

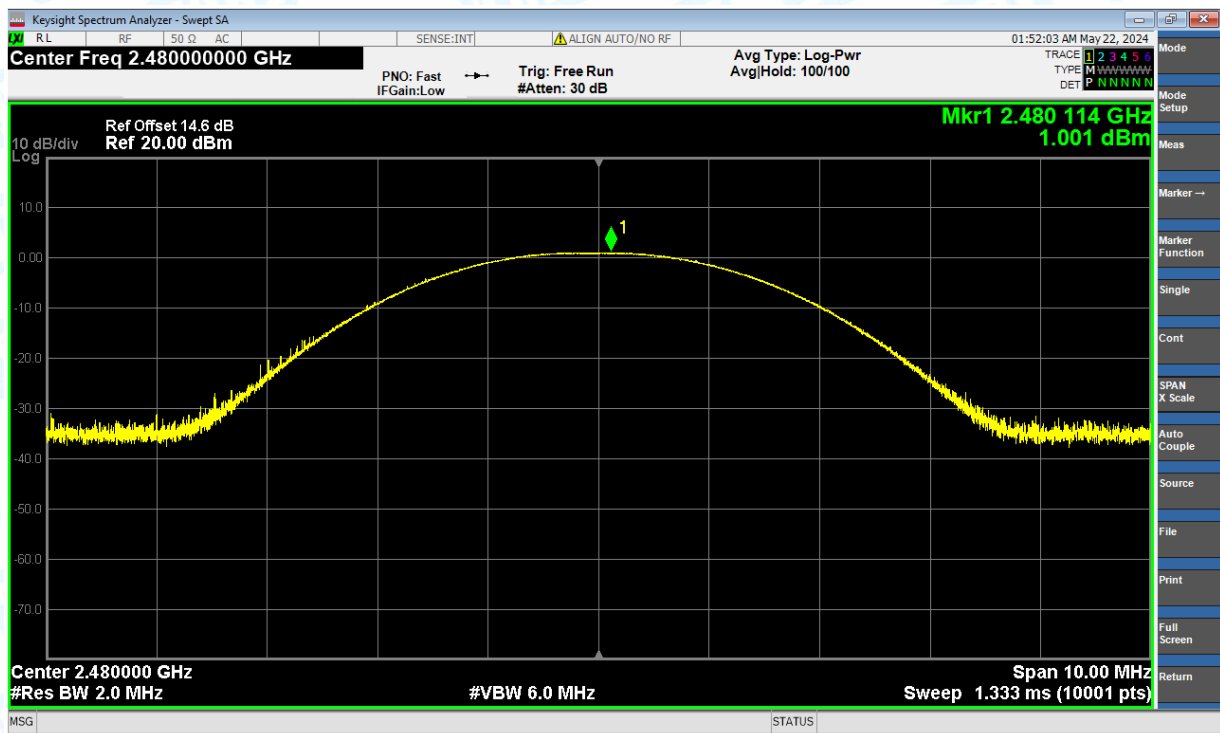
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



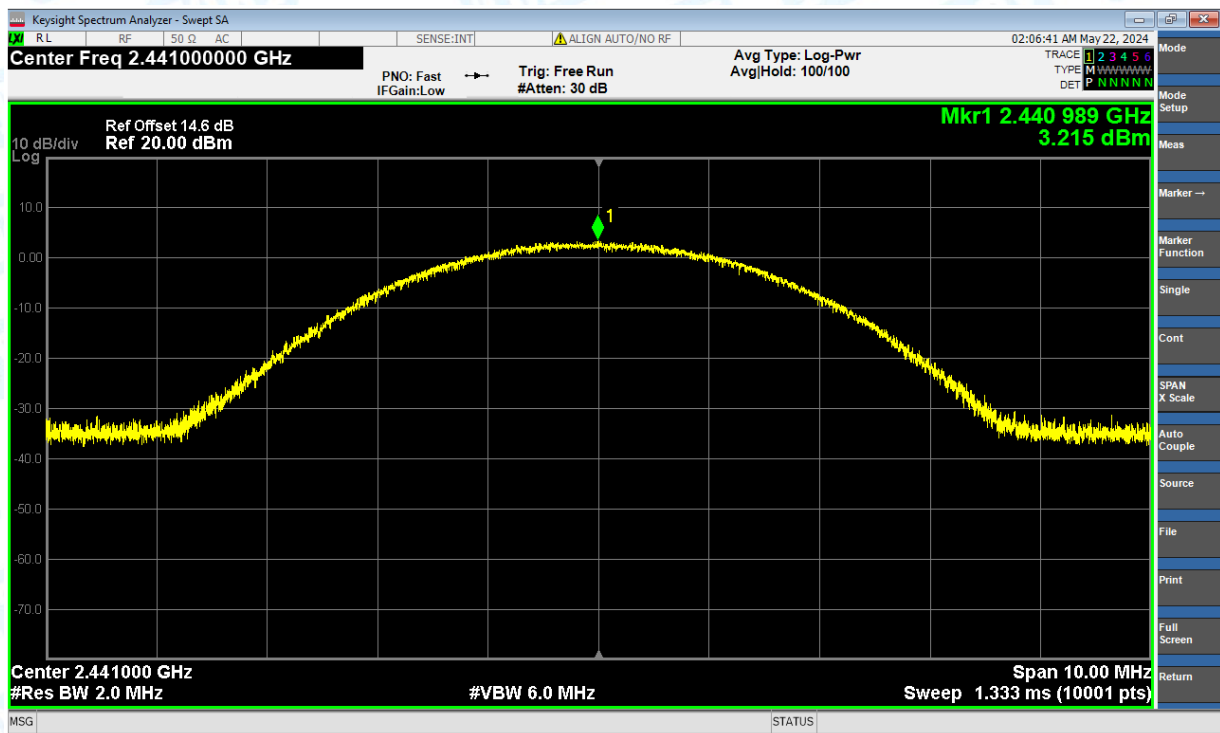
Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1



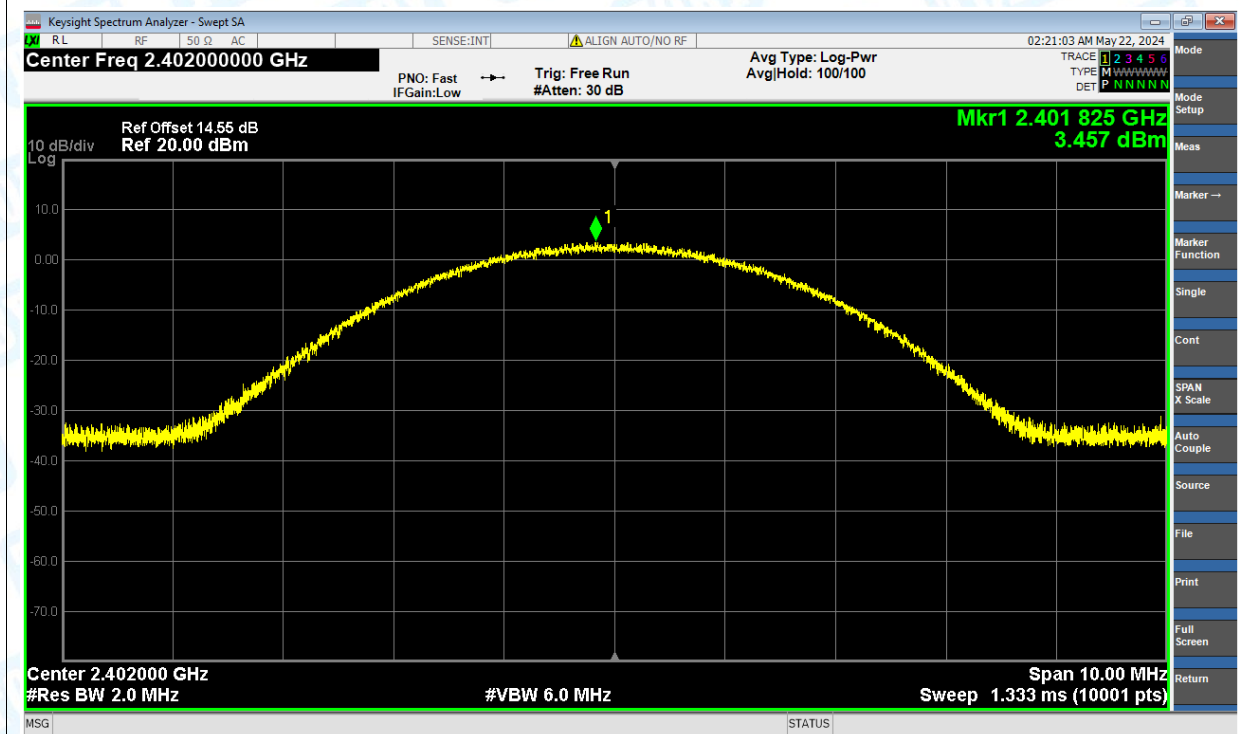
Power NVNT 2-DH1 2441MHz Ant1



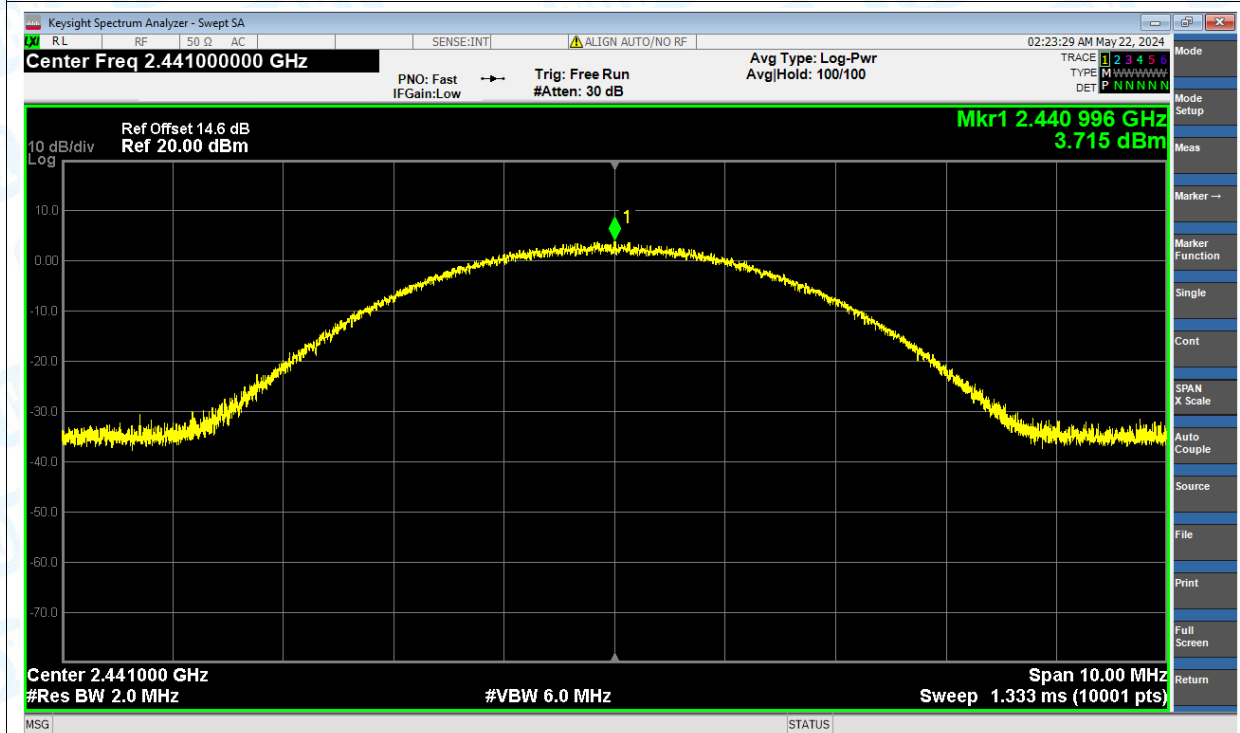
Power NVNT 2-DH1 2480MHz Ant1

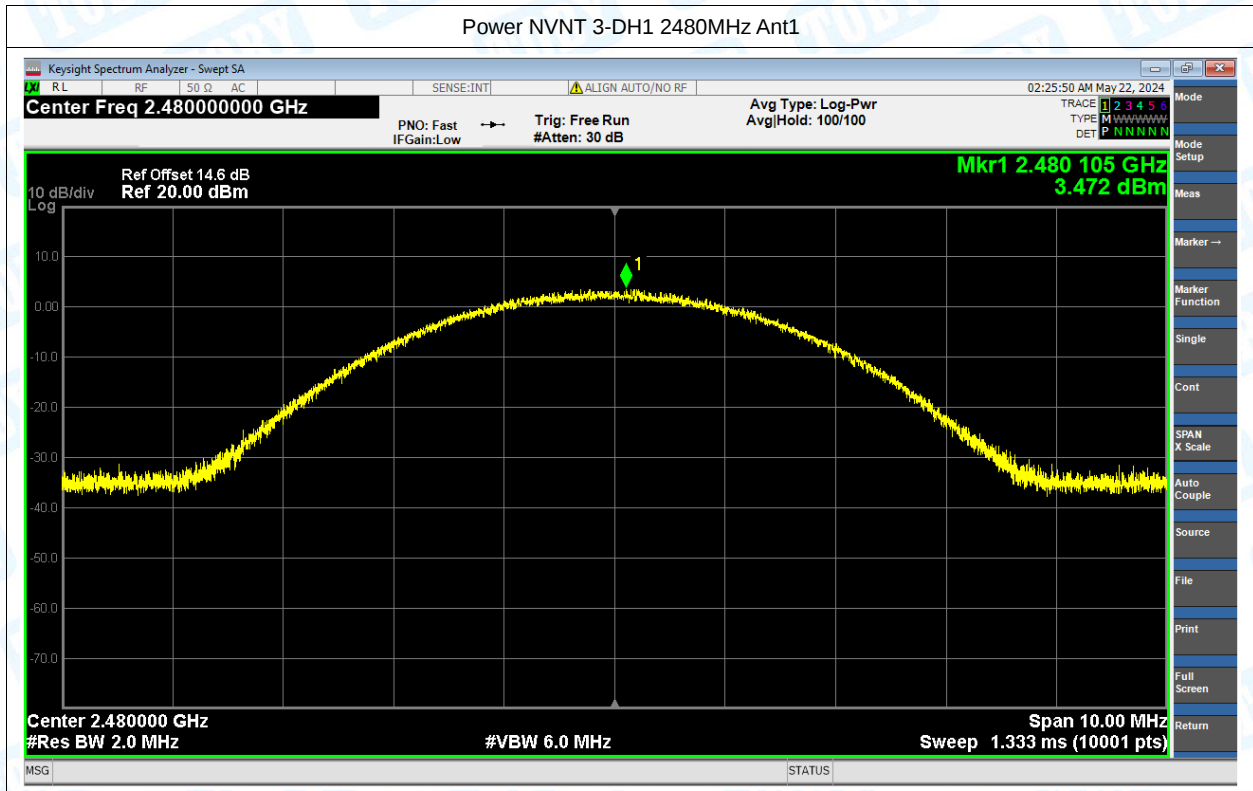


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



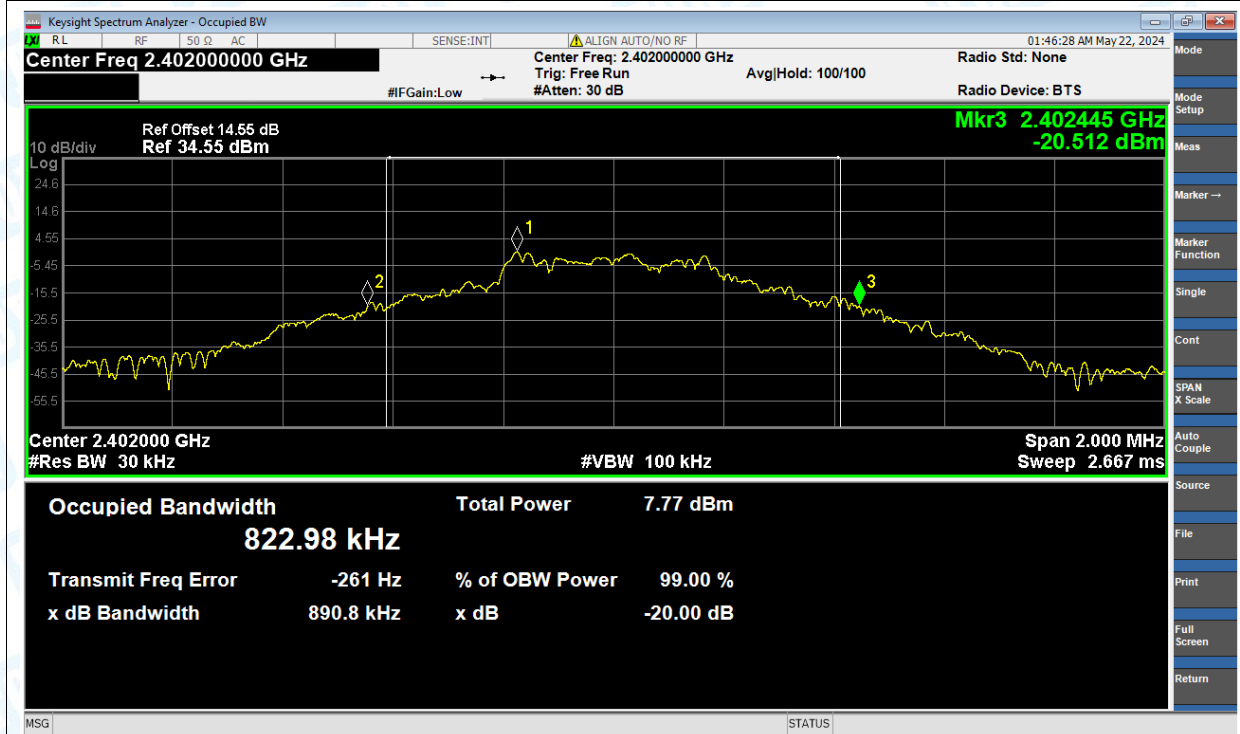


3. -20dB Bandwidth

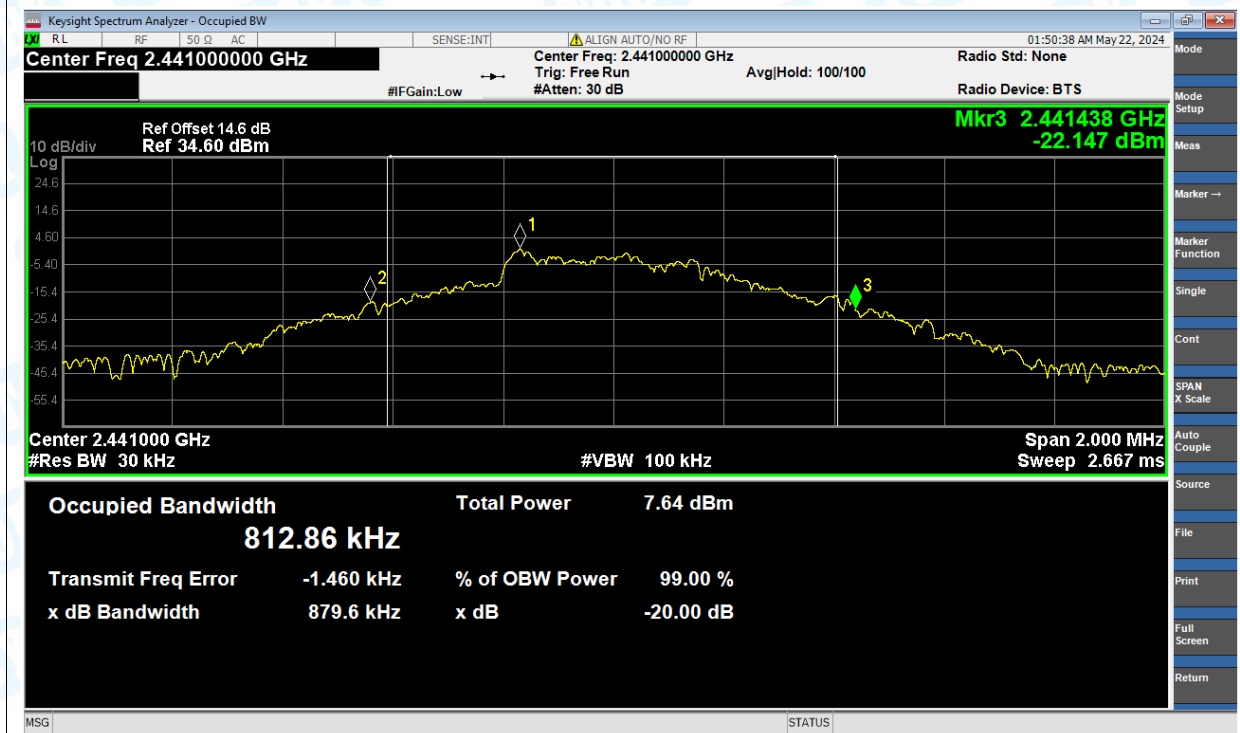
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.89	0	Pass
NVNT	1-DH1	2441	Ant1	0.88	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.28	0	Pass
NVNT	2-DH1	2441	Ant1	1.27	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.24	0	Pass
NVNT	3-DH1	2480	Ant1	1.23	0	Pass

Test Graphs

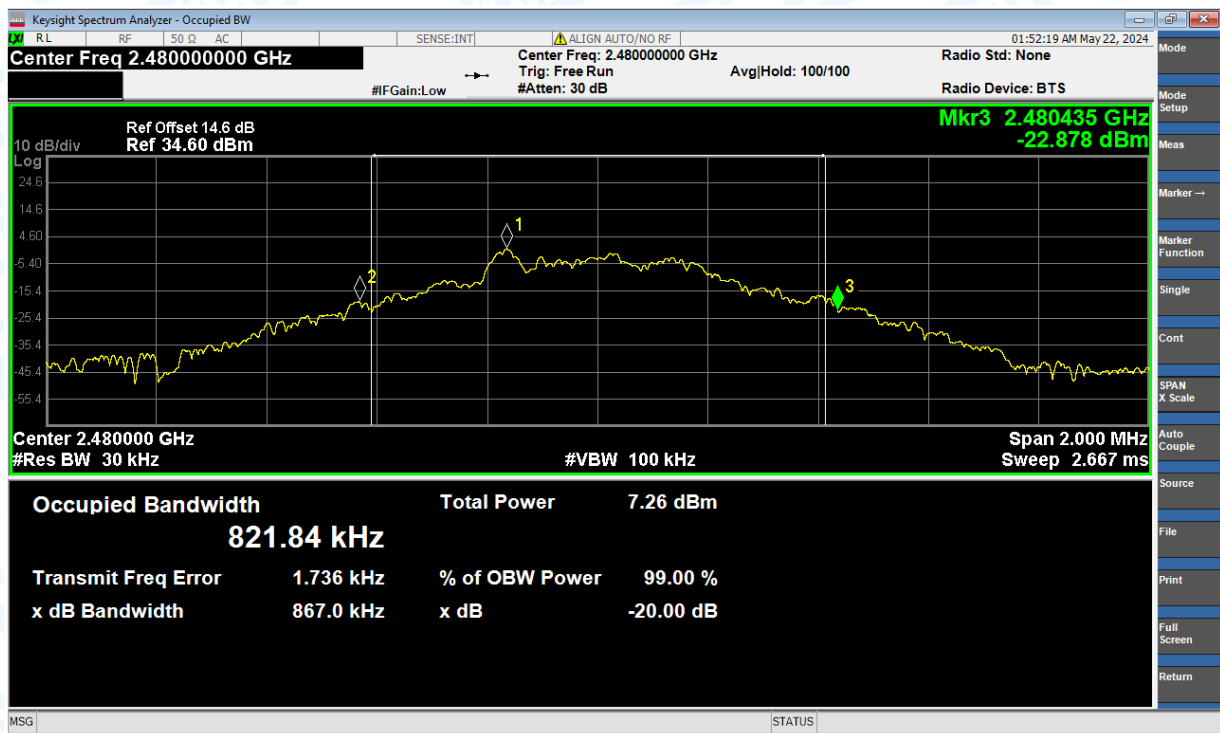
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



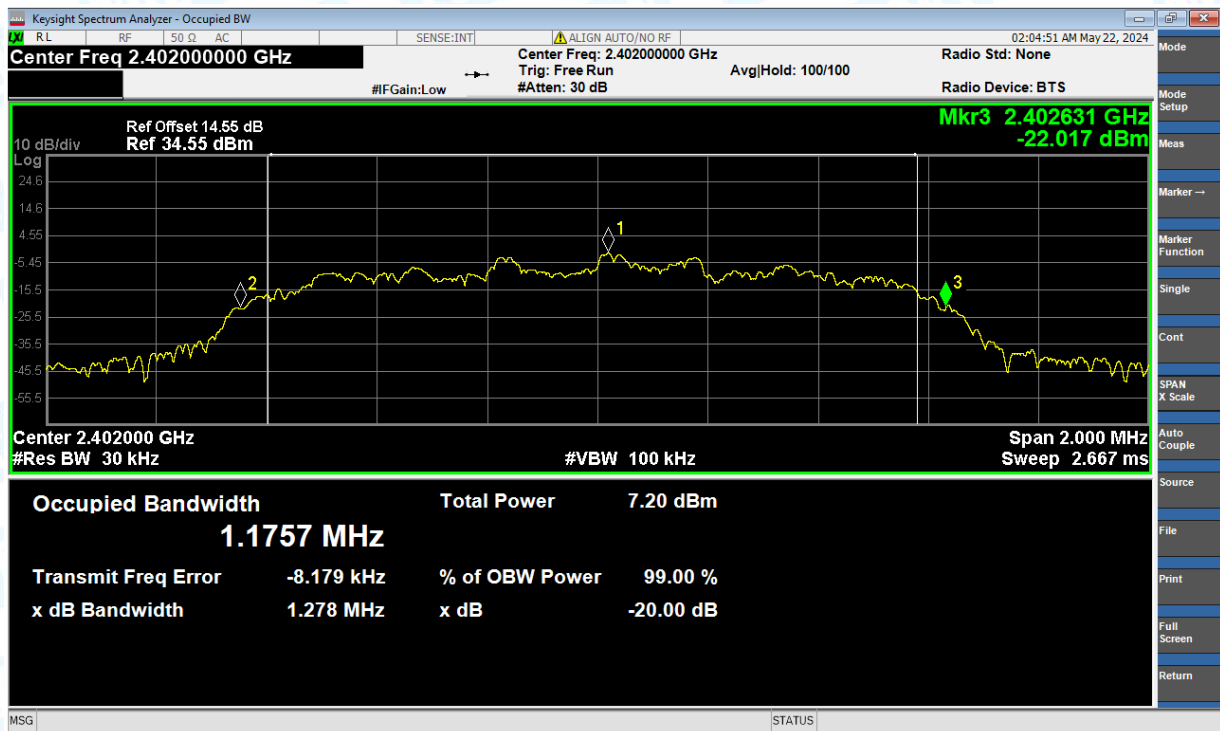
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



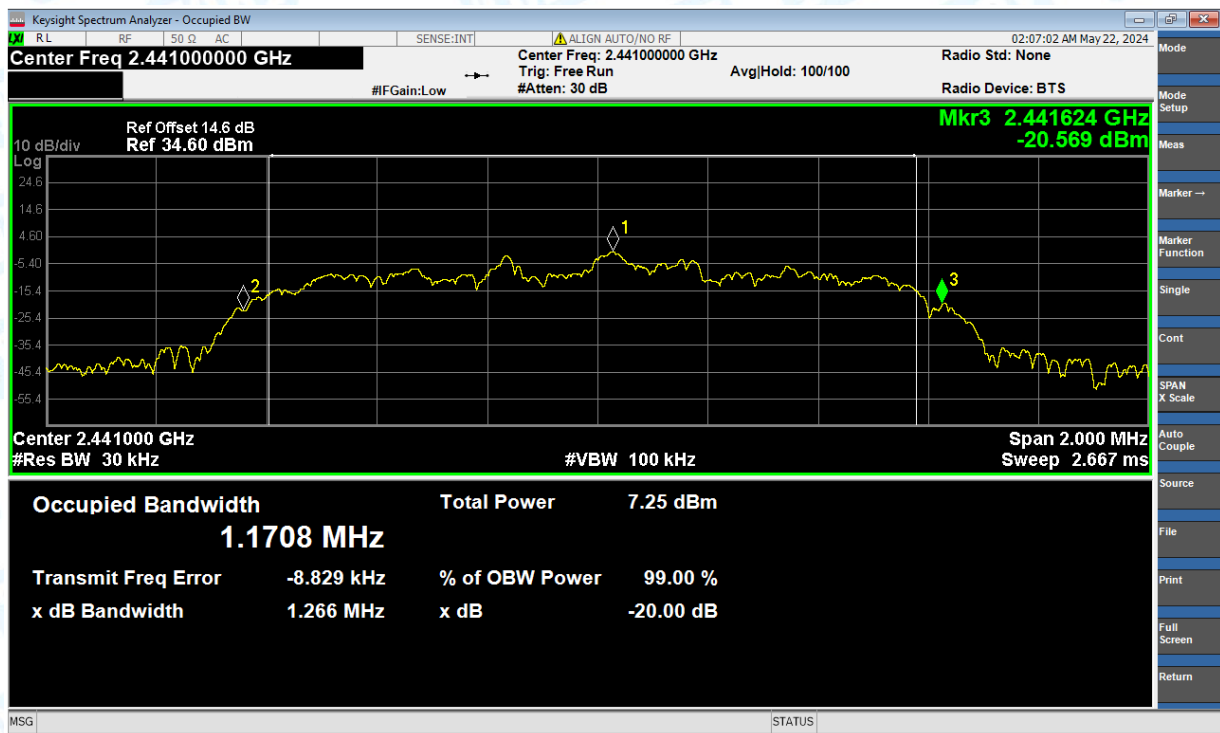
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



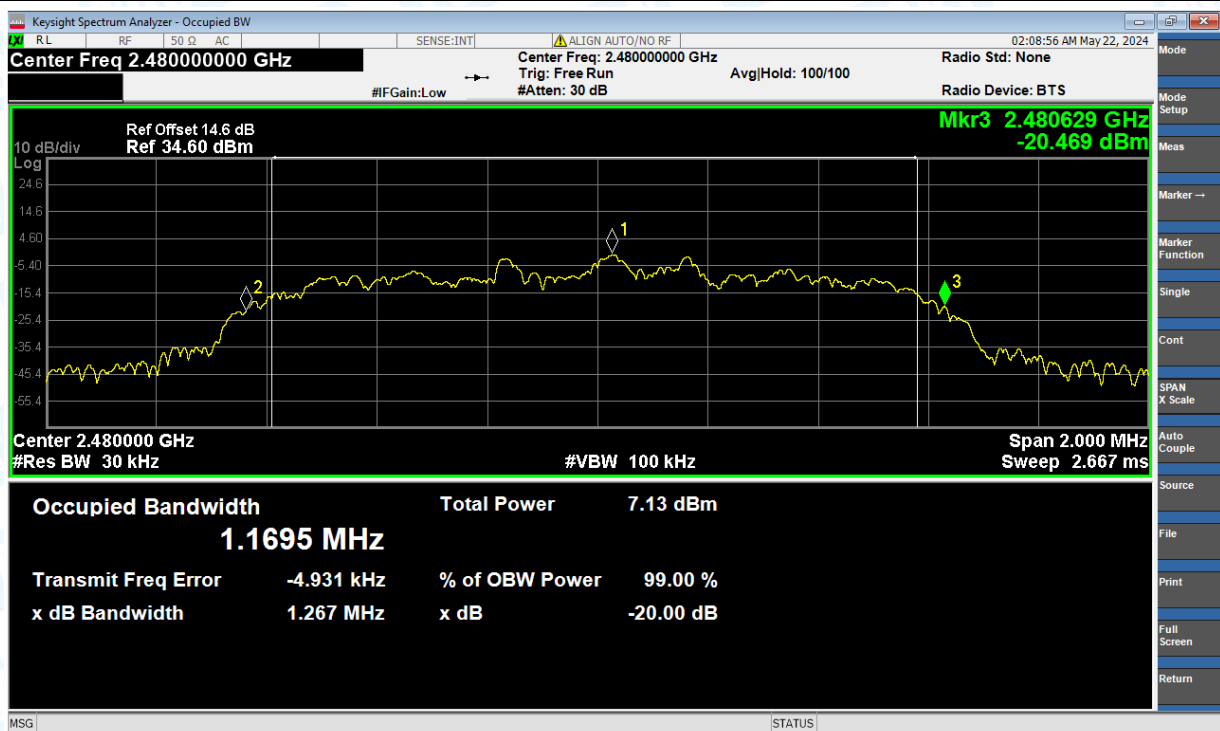
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



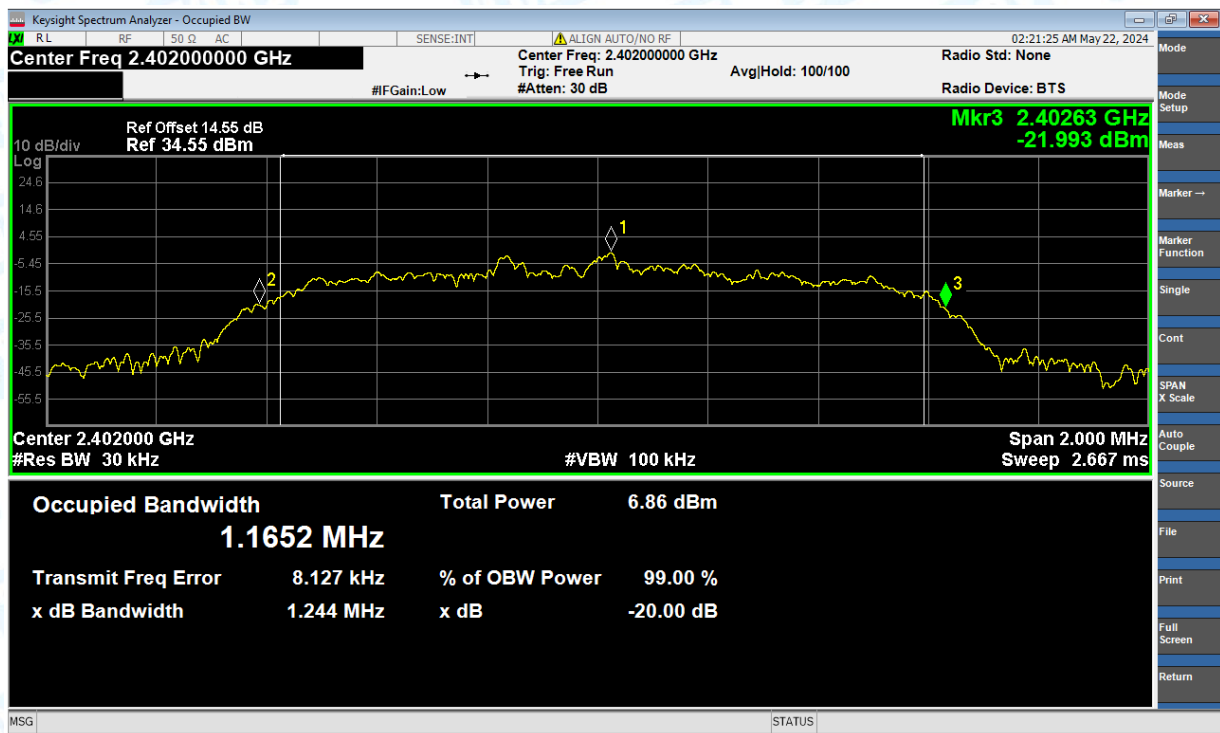
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



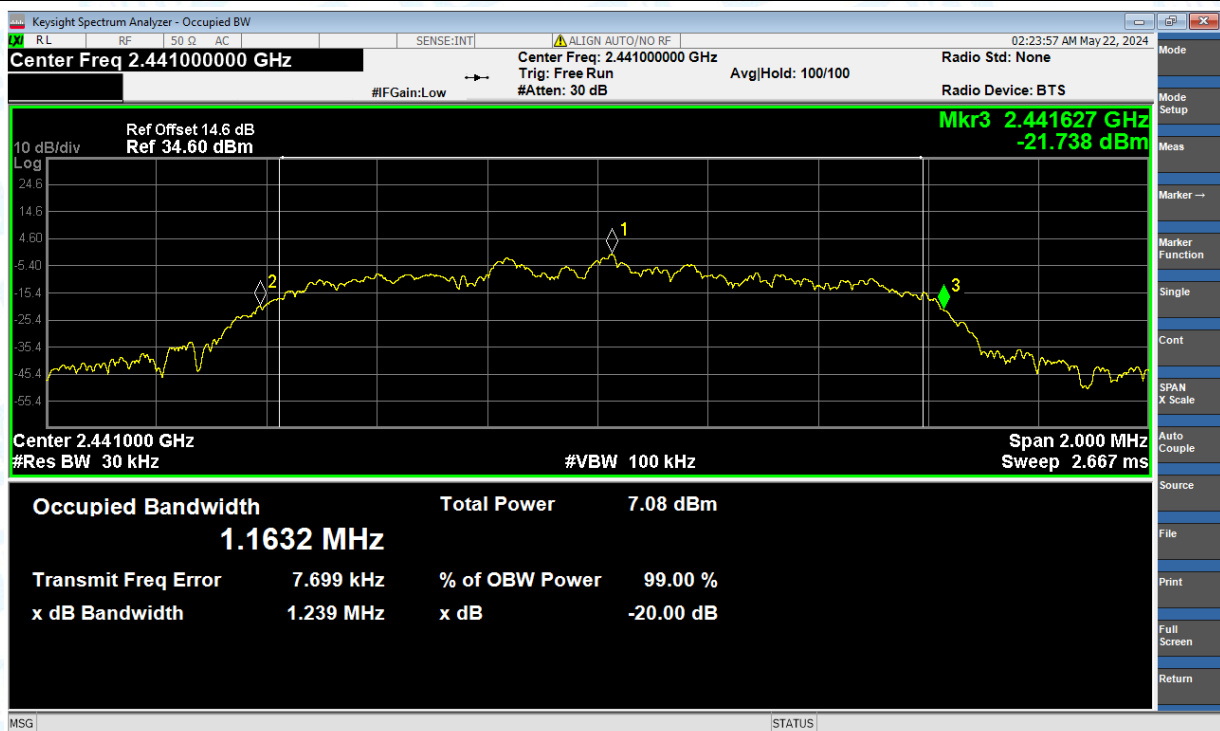
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

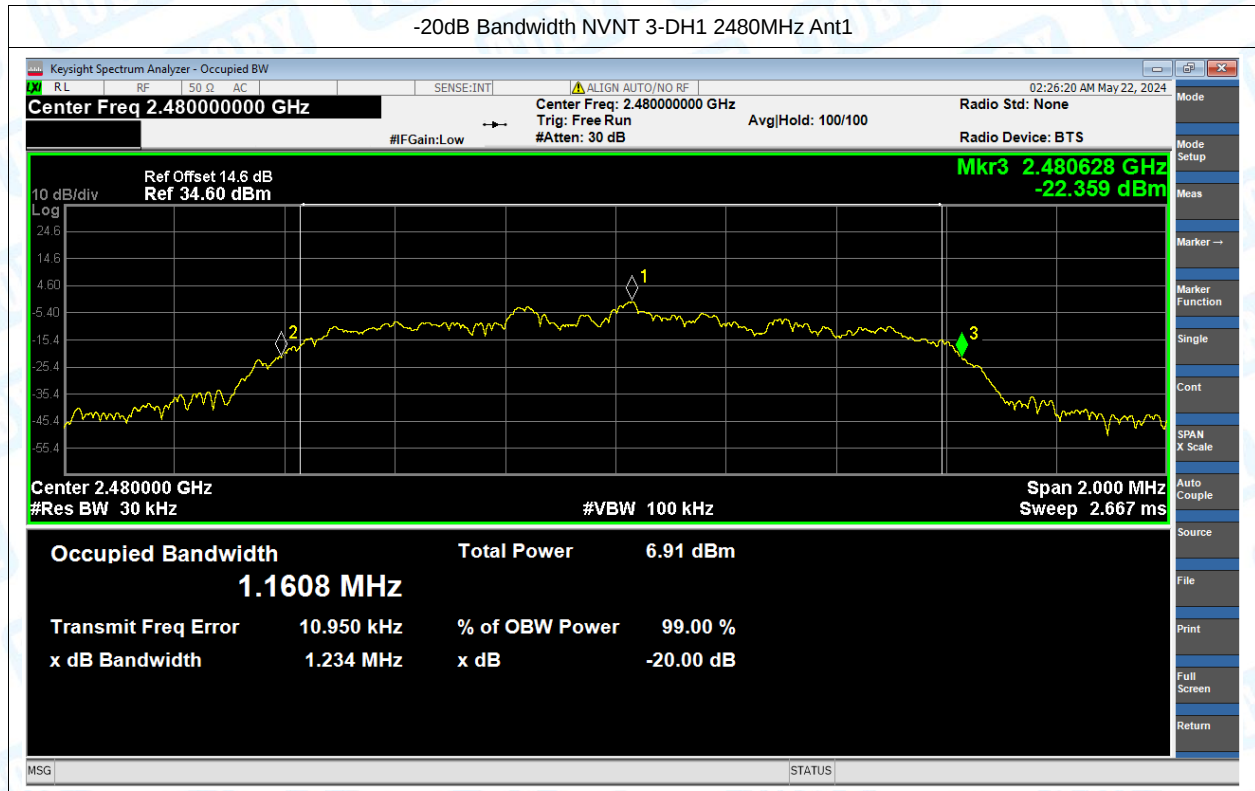


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



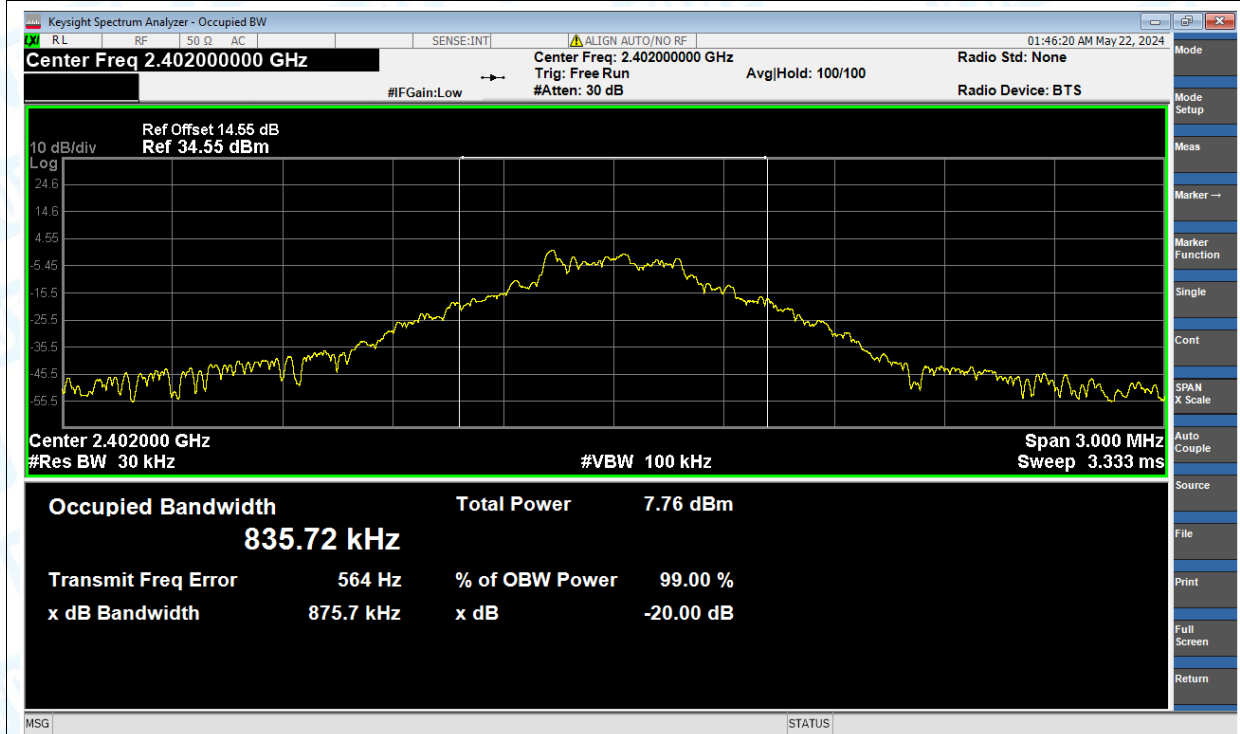


4. Occupied Channel Bandwidth

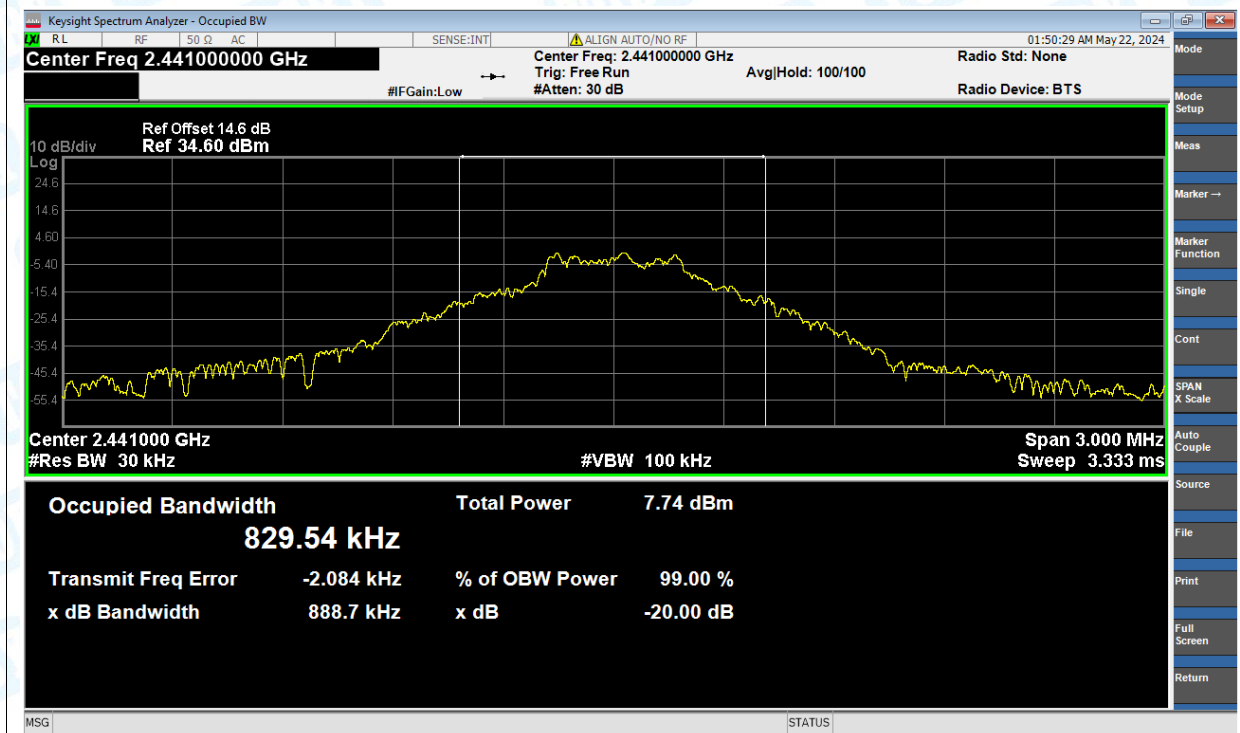
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.836
NVNT	1-DH1	2441	Ant1	0.83
NVNT	1-DH1	2480	Ant1	0.809
NVNT	2-DH1	2402	Ant1	1.18
NVNT	2-DH1	2441	Ant1	1.176
NVNT	2-DH1	2480	Ant1	1.175
NVNT	3-DH1	2402	Ant1	1.162
NVNT	3-DH1	2441	Ant1	1.165
NVNT	3-DH1	2480	Ant1	1.166

Test Graphs

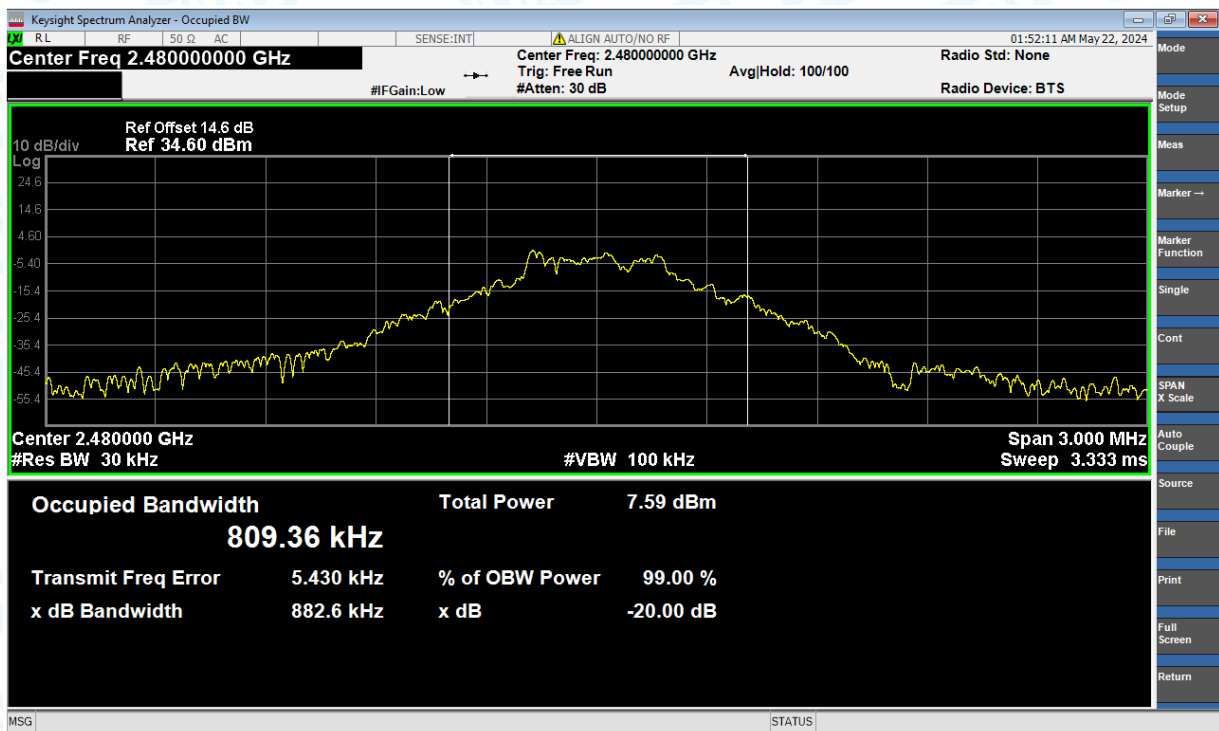
OBW NVNT 1-DH1 2402MHz Ant1



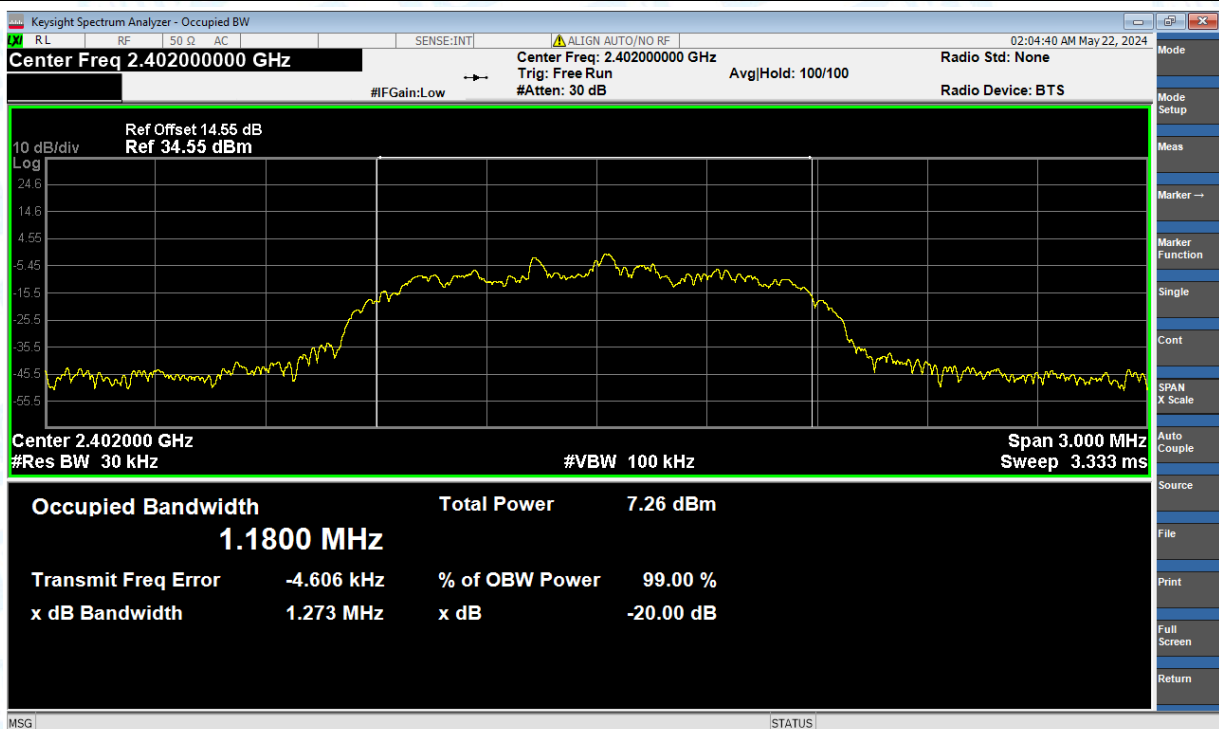
OBW NVNT 1-DH1 2441MHz Ant1



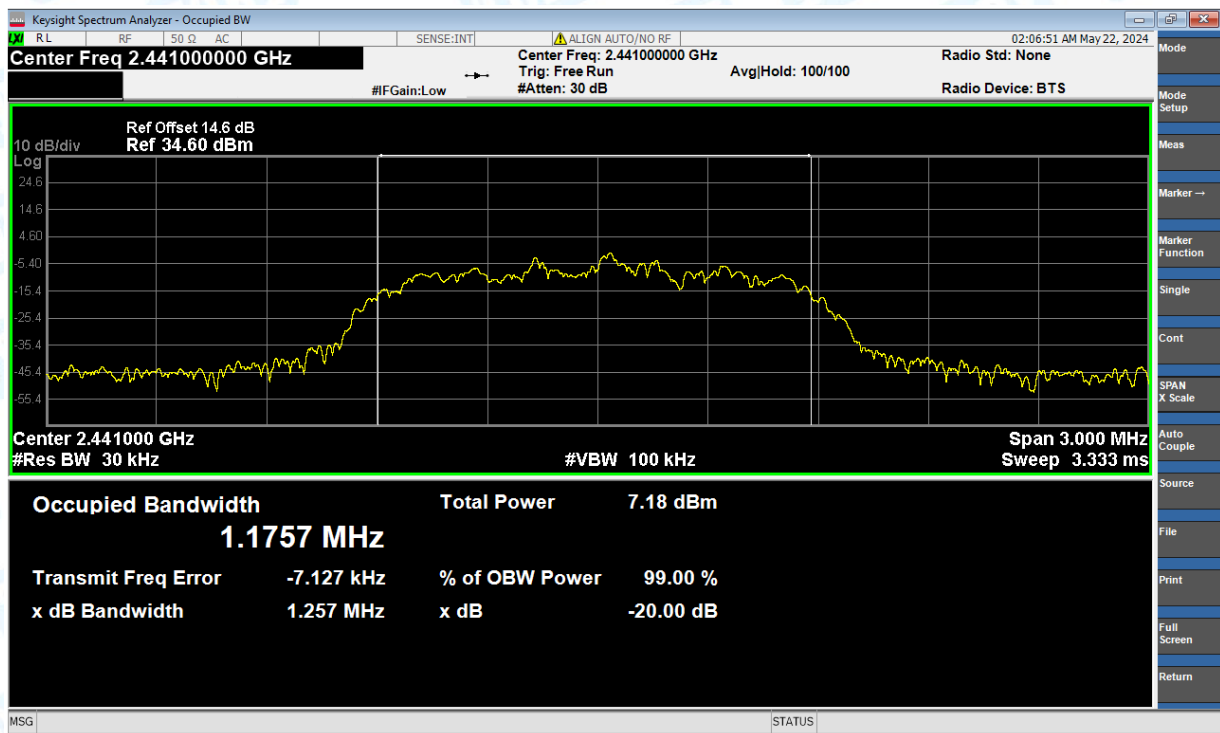
OBW NVNT 1-DH1 2480MHz Ant1



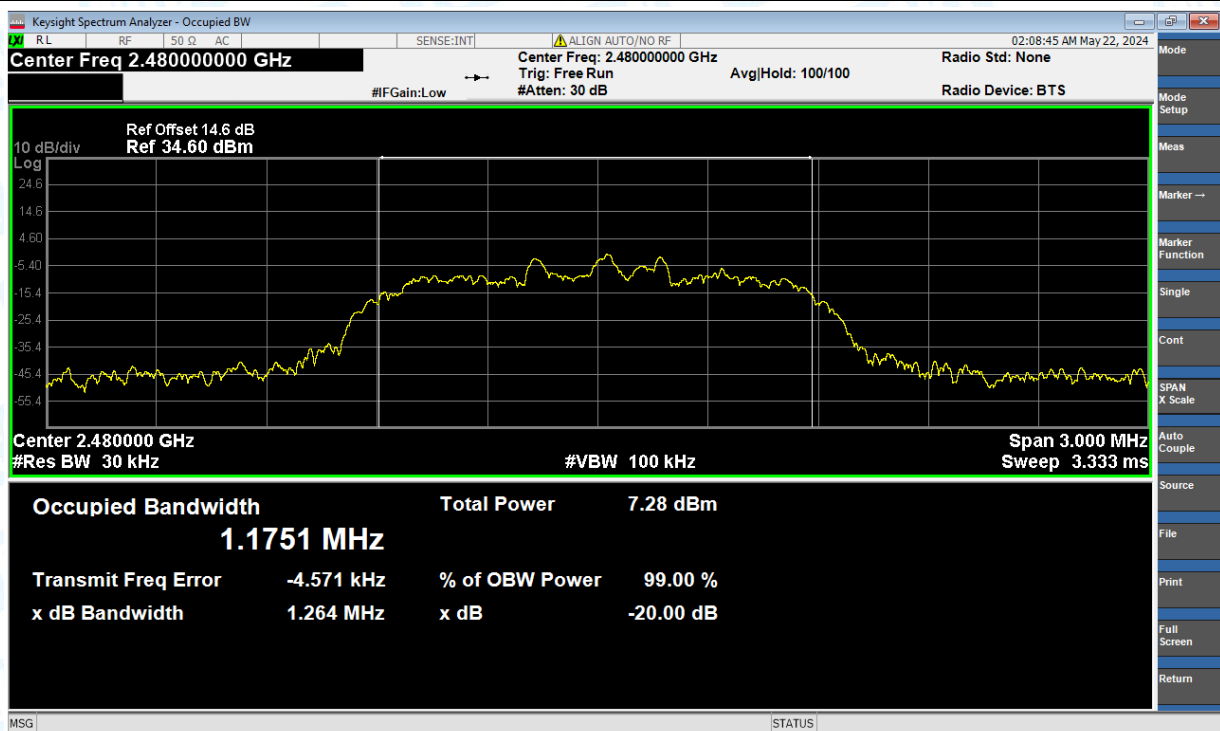
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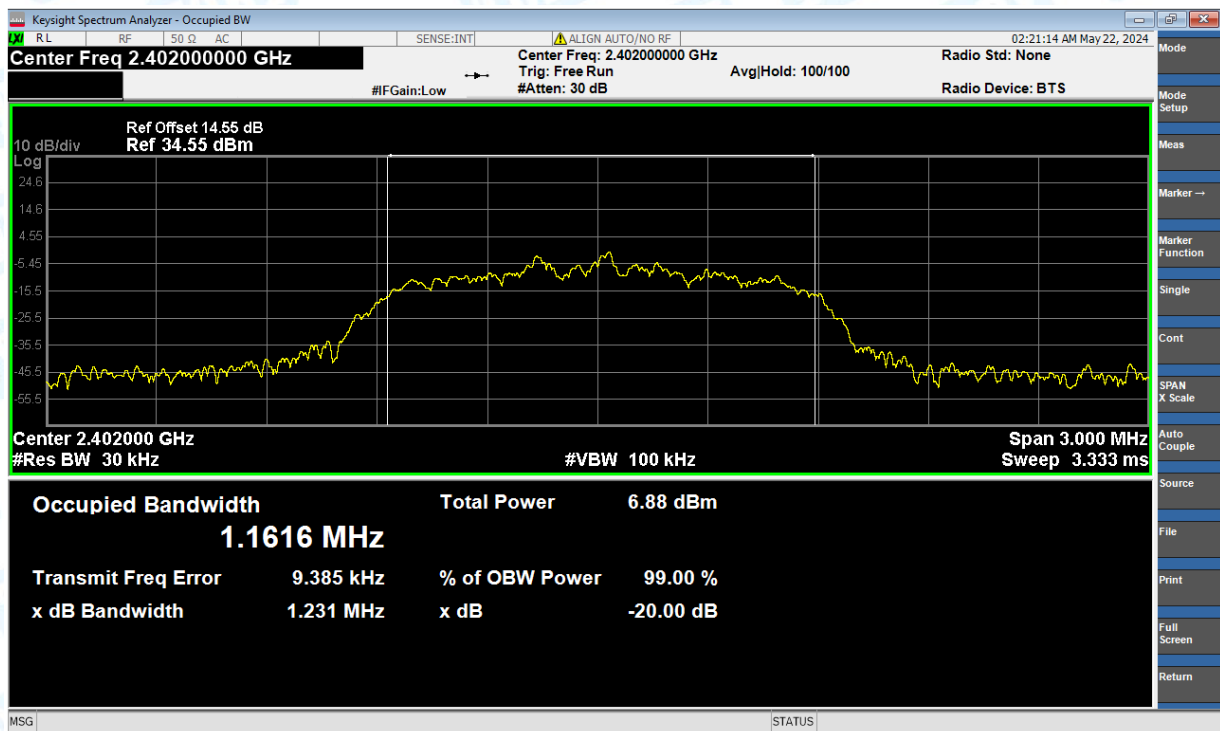
OBW NVNT 2-DH1 2441MHz Ant1



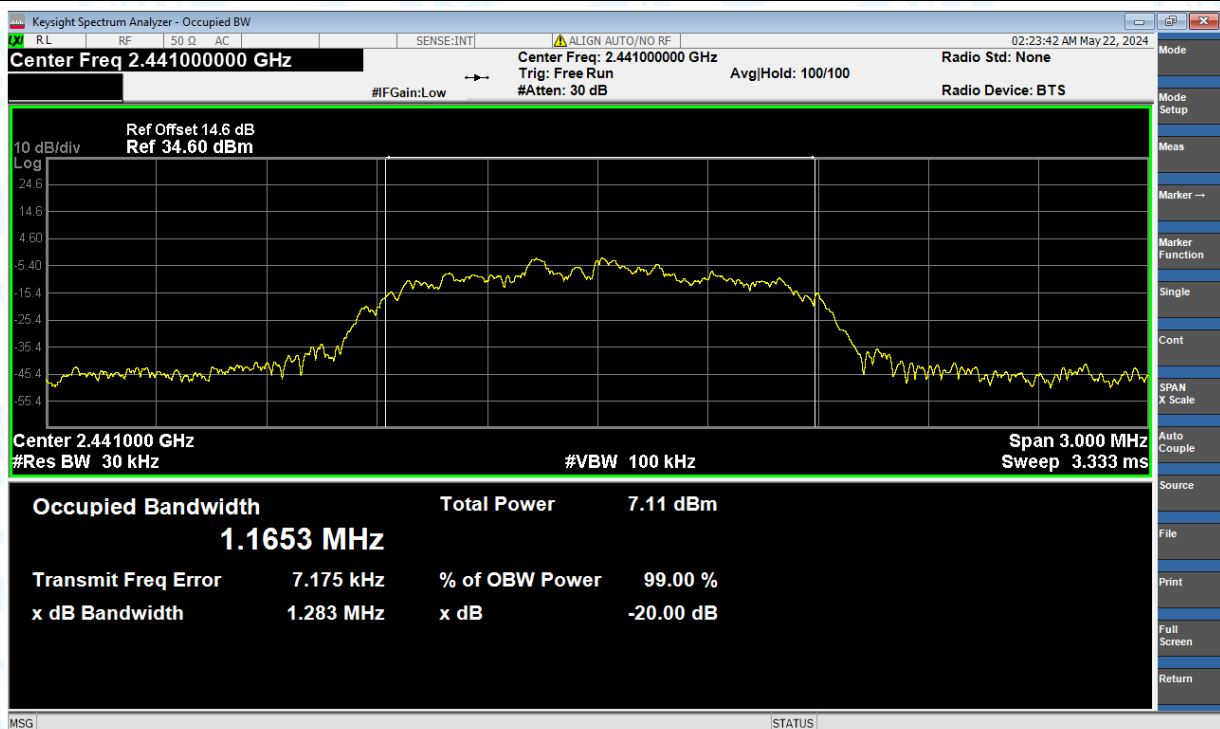
OBW NVNT 2-DH1 2480MHz Ant1

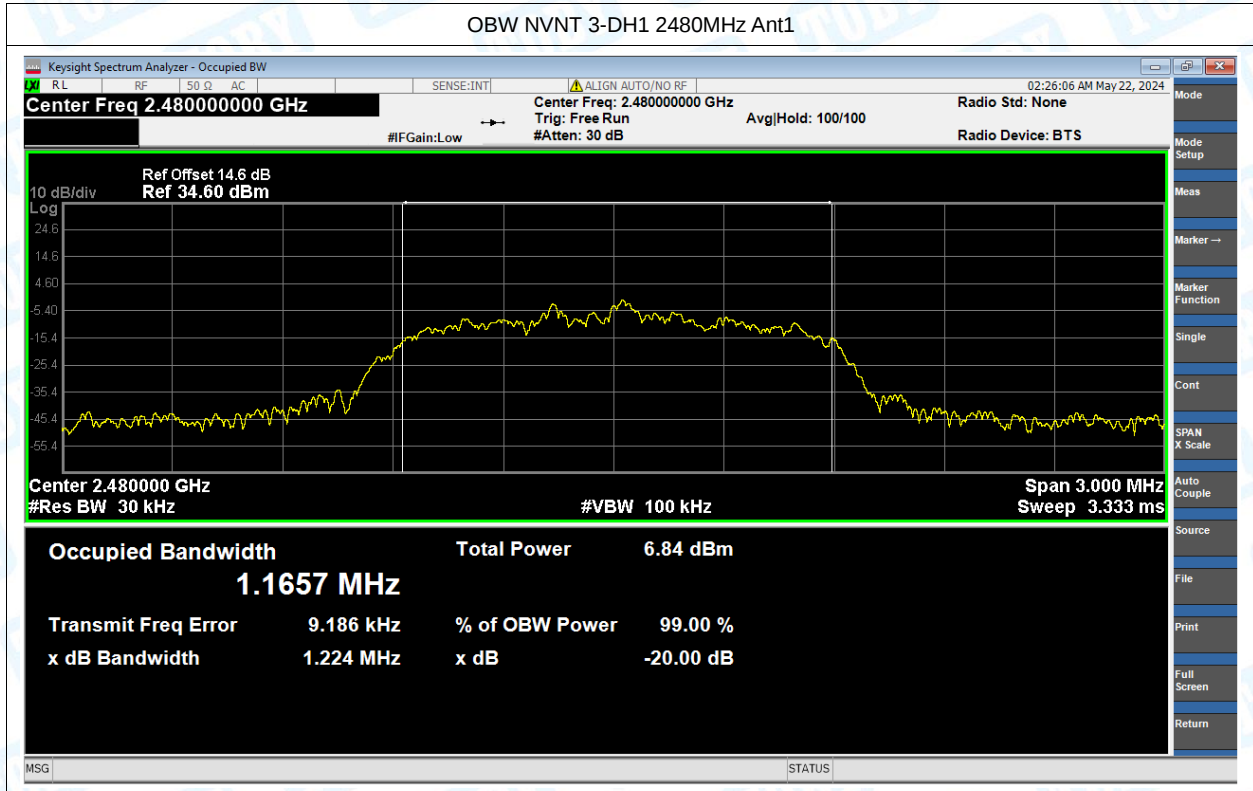


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



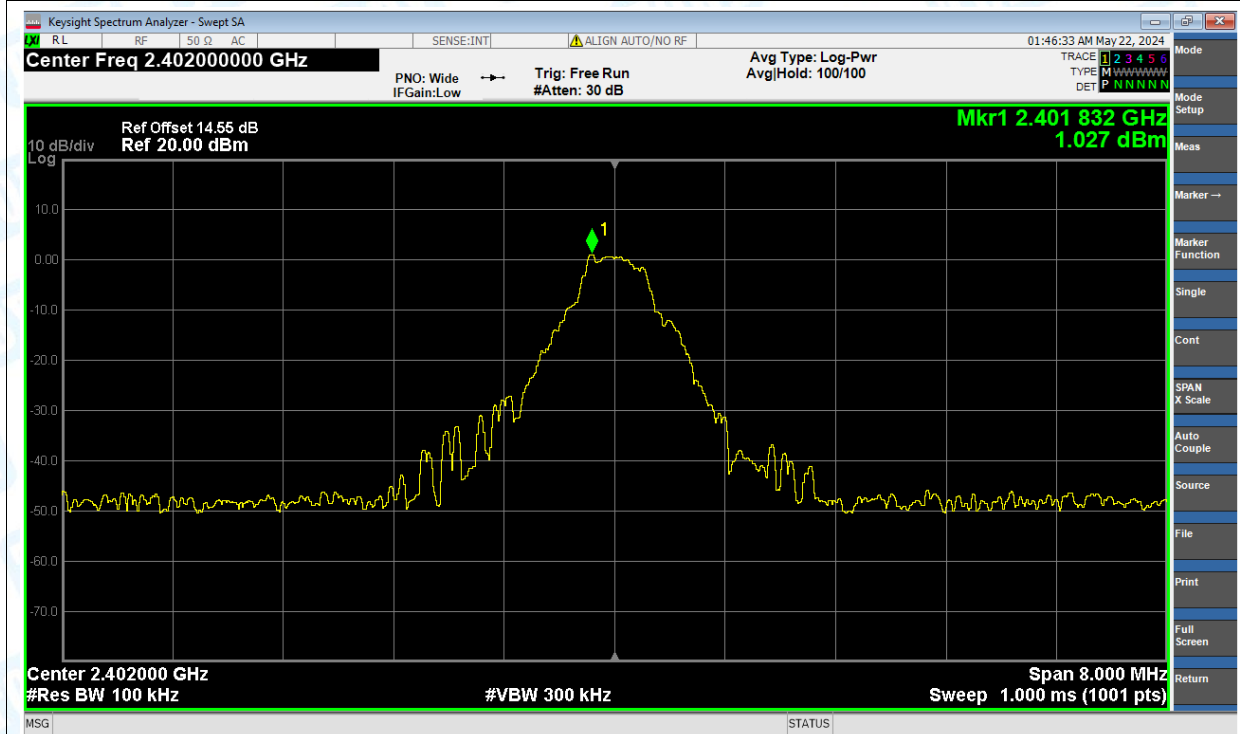


5. Band Edge

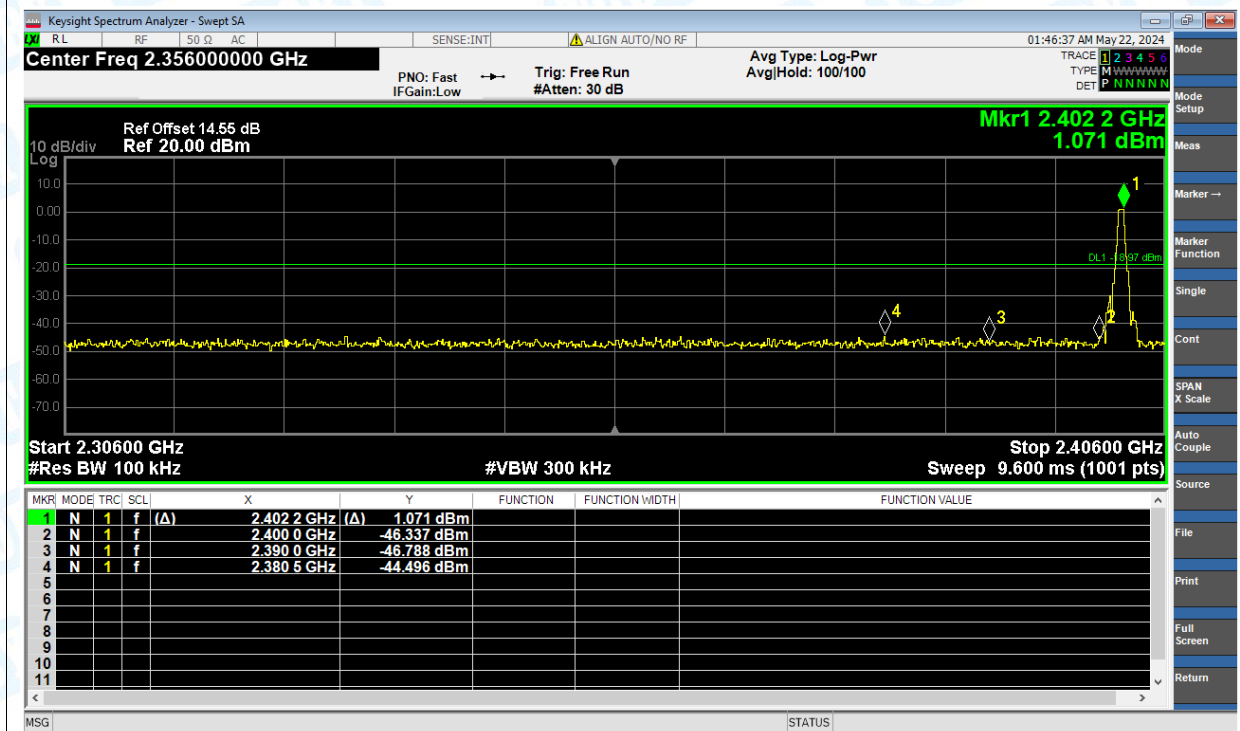
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-45.53	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-44.34	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-45.09	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-44.93	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-44.39	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-44.8	-20	Pass

Test Graphs

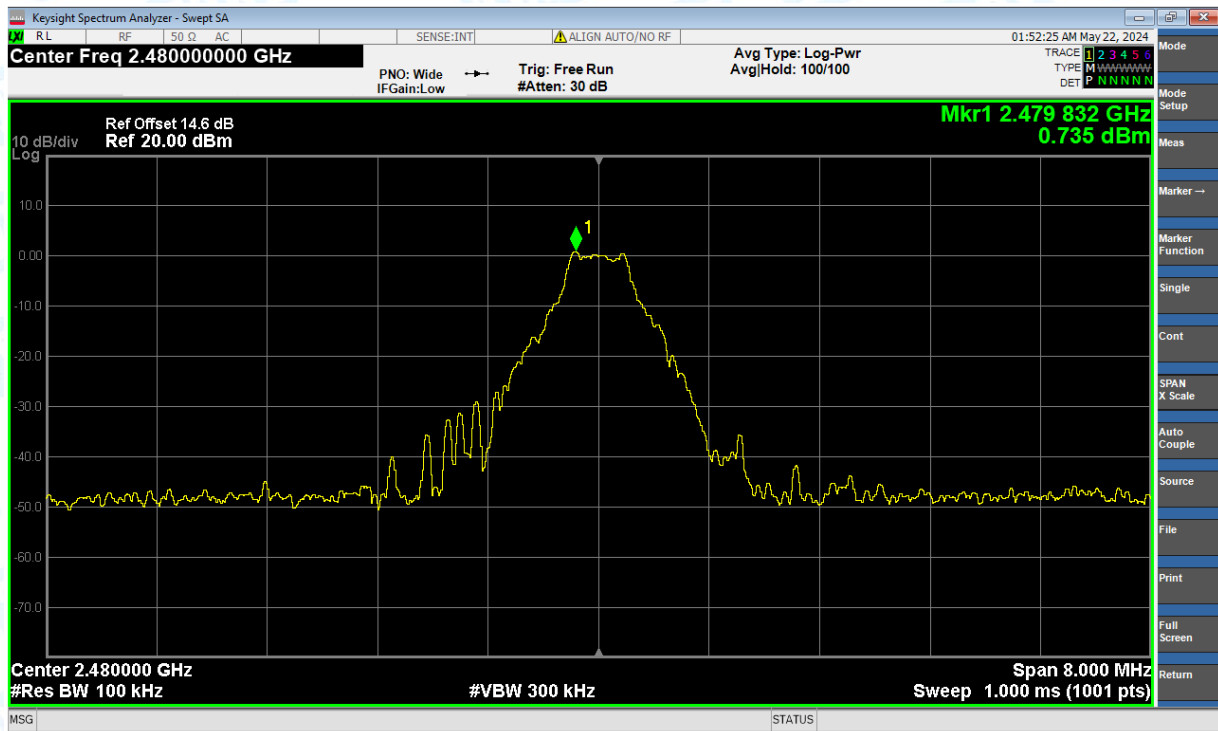
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



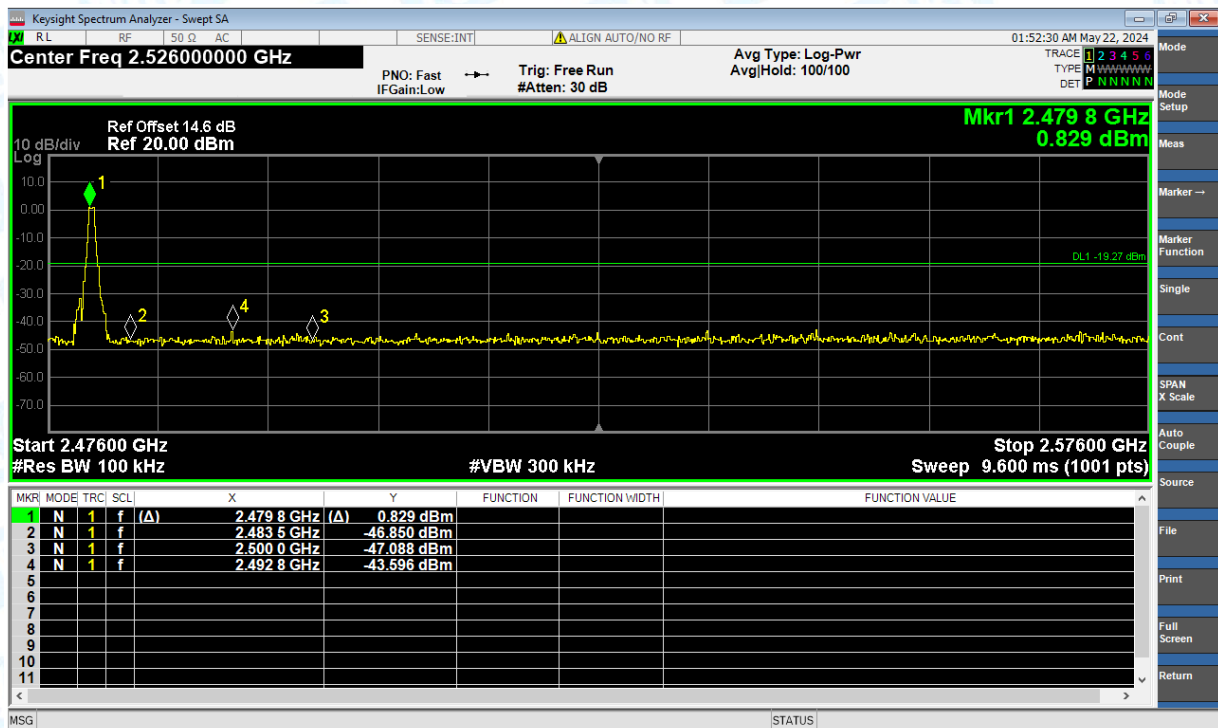
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



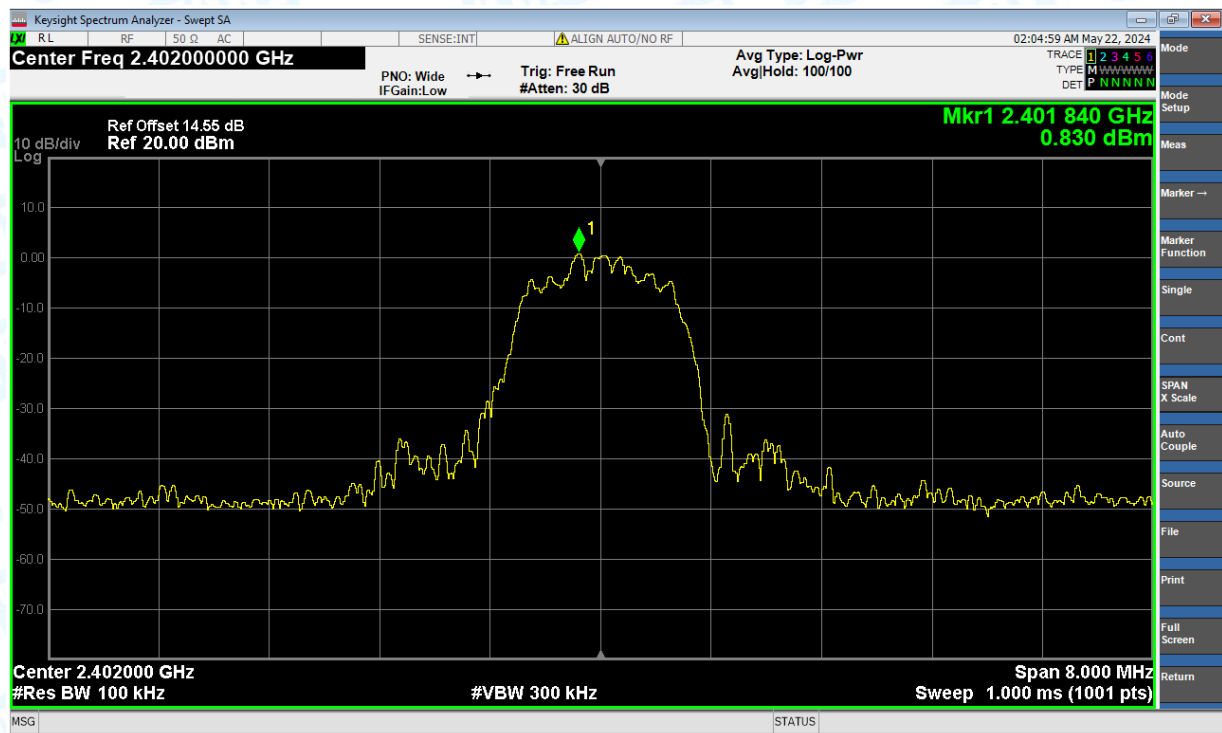
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



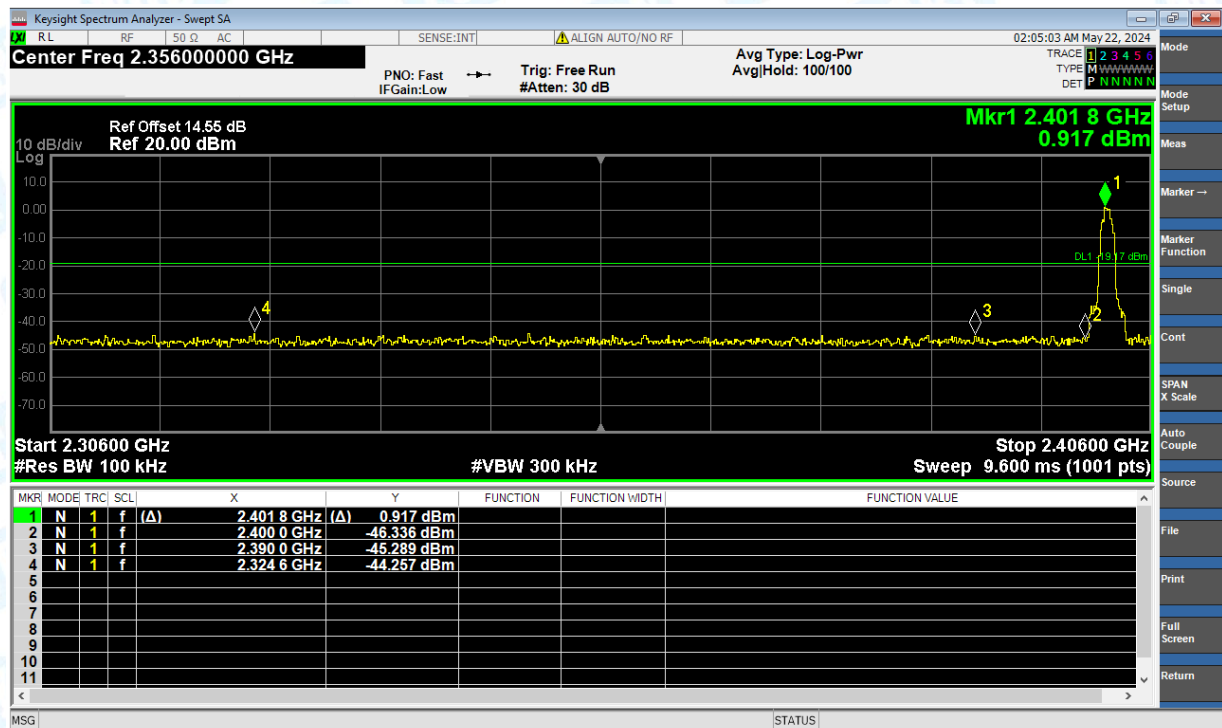
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



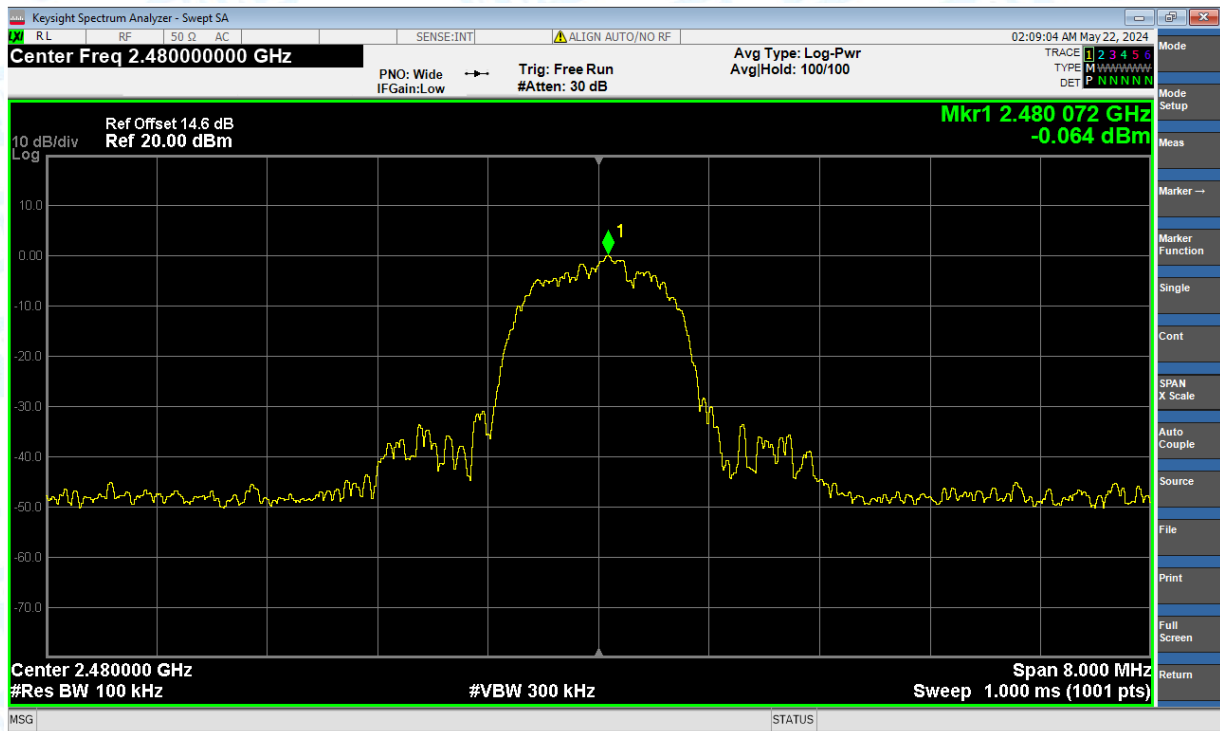
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



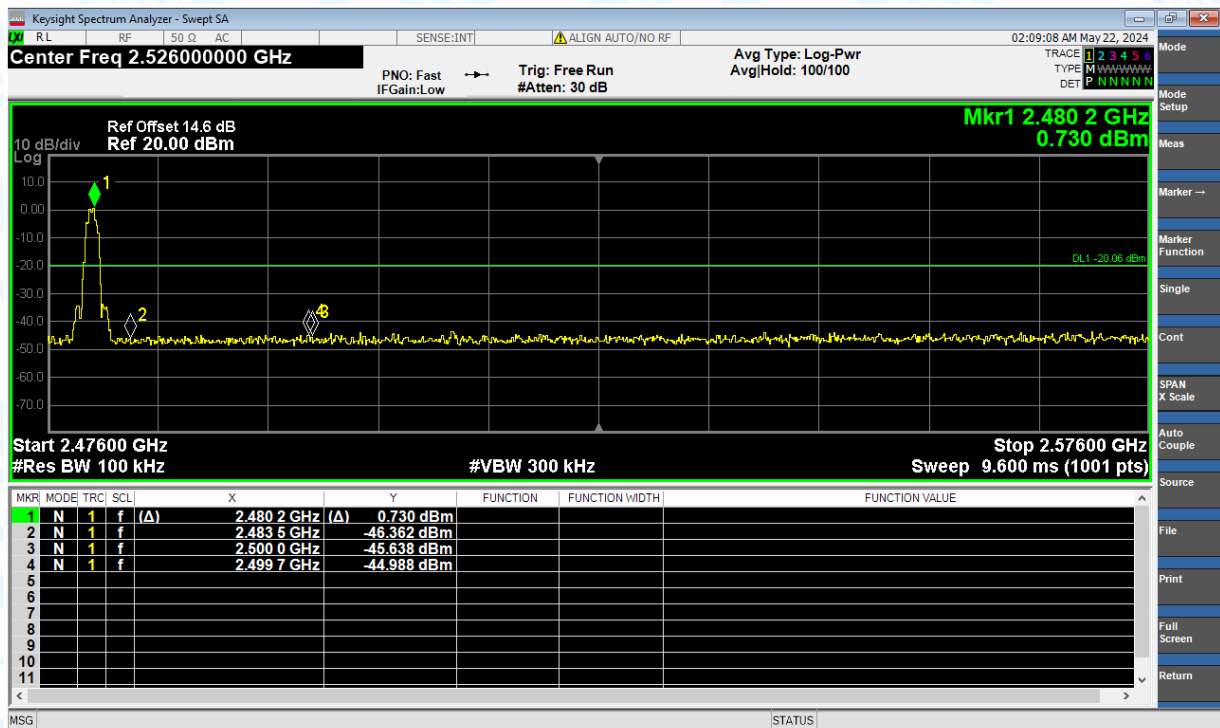
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



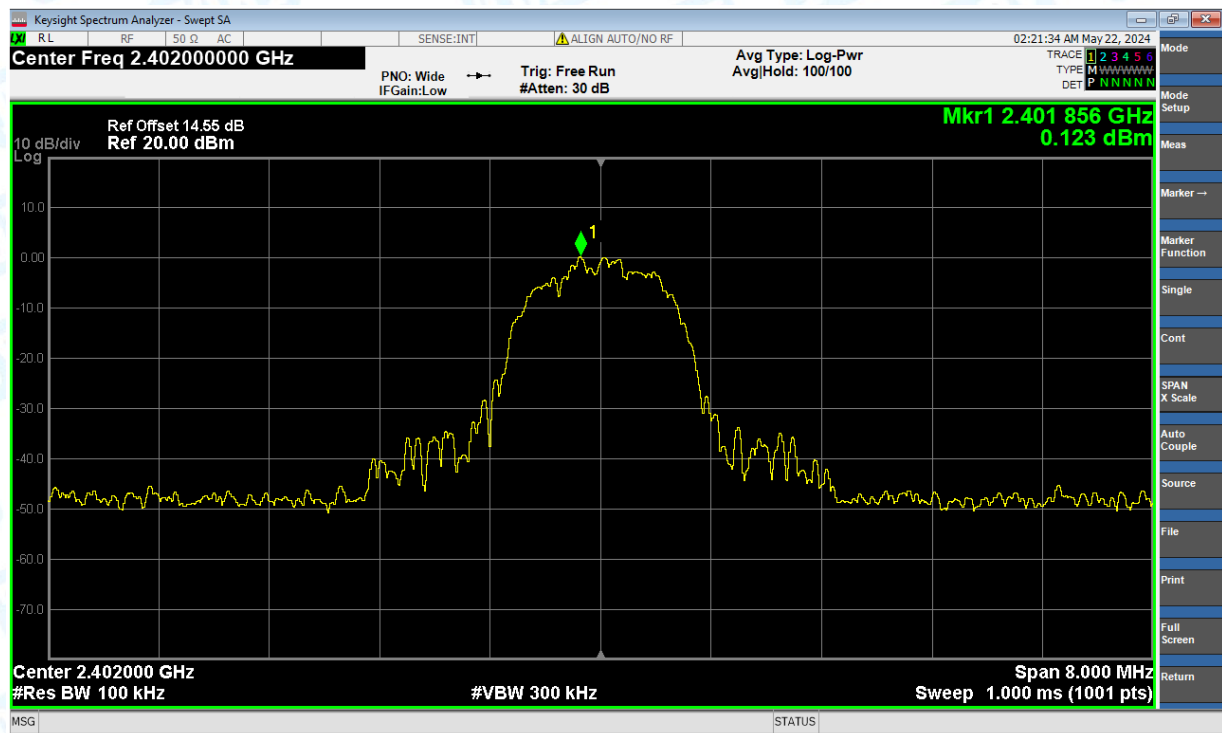
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



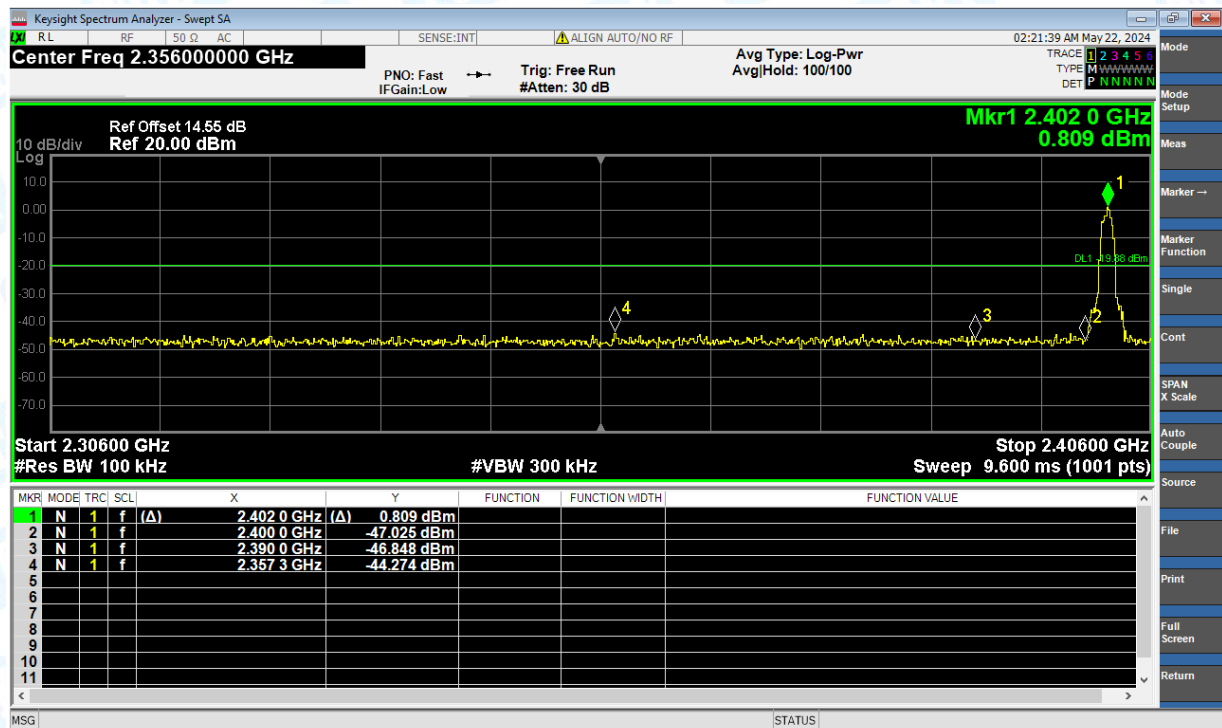
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



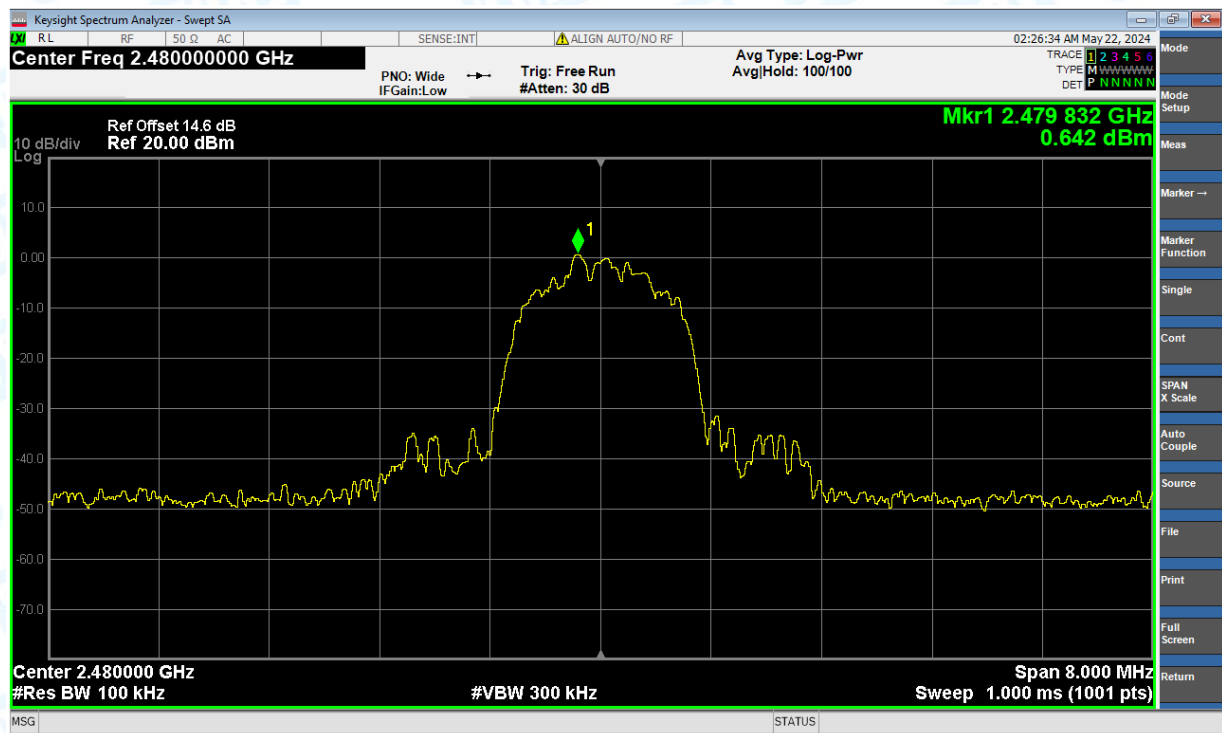
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



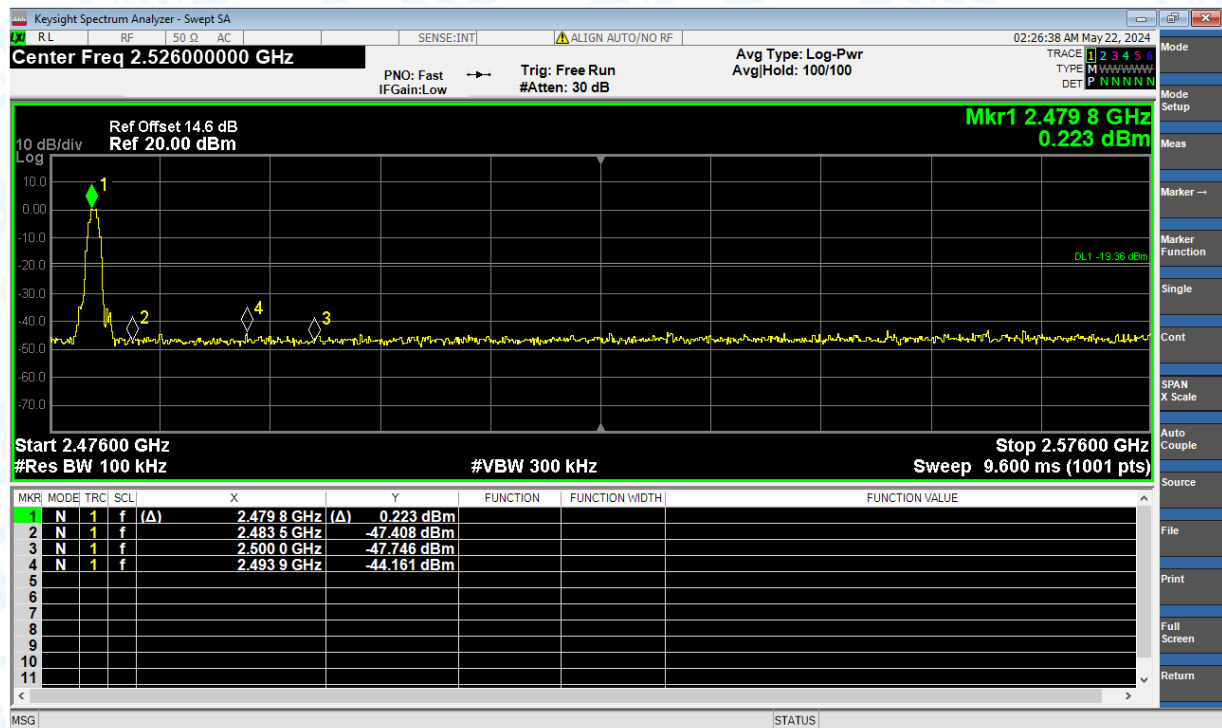
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

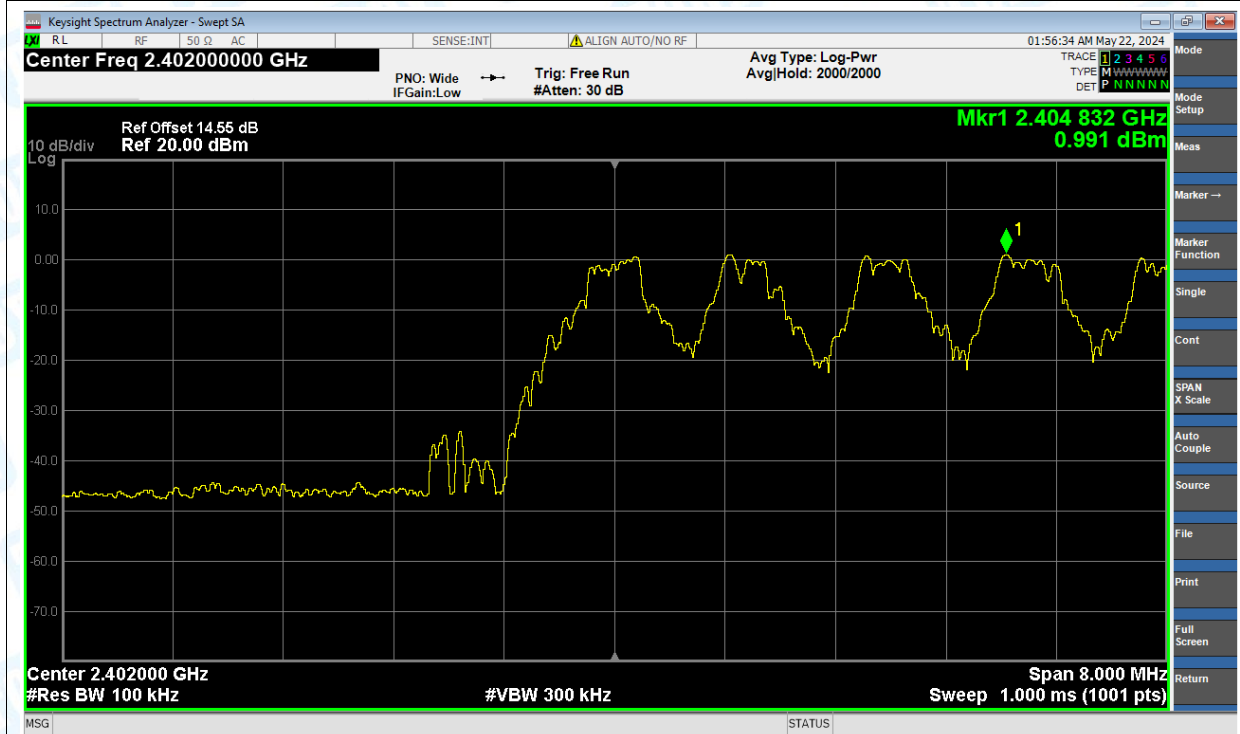


6. Band Edge(Hopping)

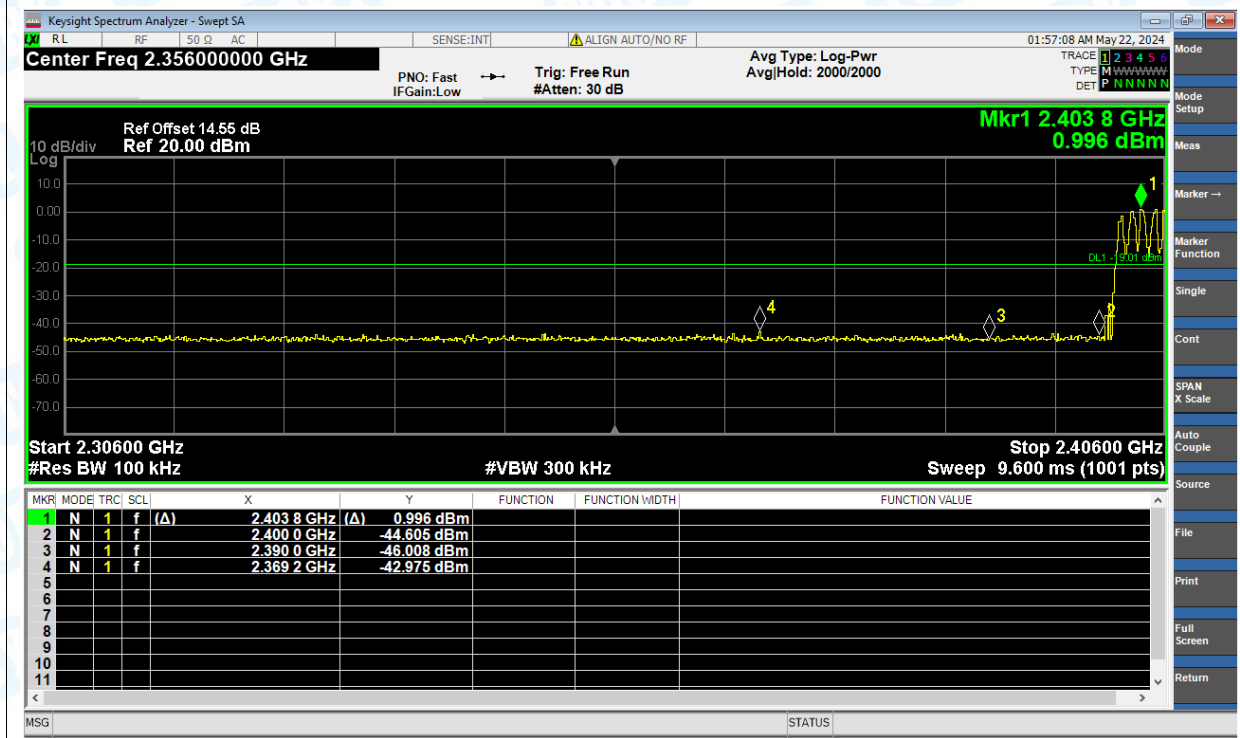
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-43.97	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-44.11	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-43.98	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-43.89	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-44.37	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-43.66	-20	Pass

Test Graphs

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



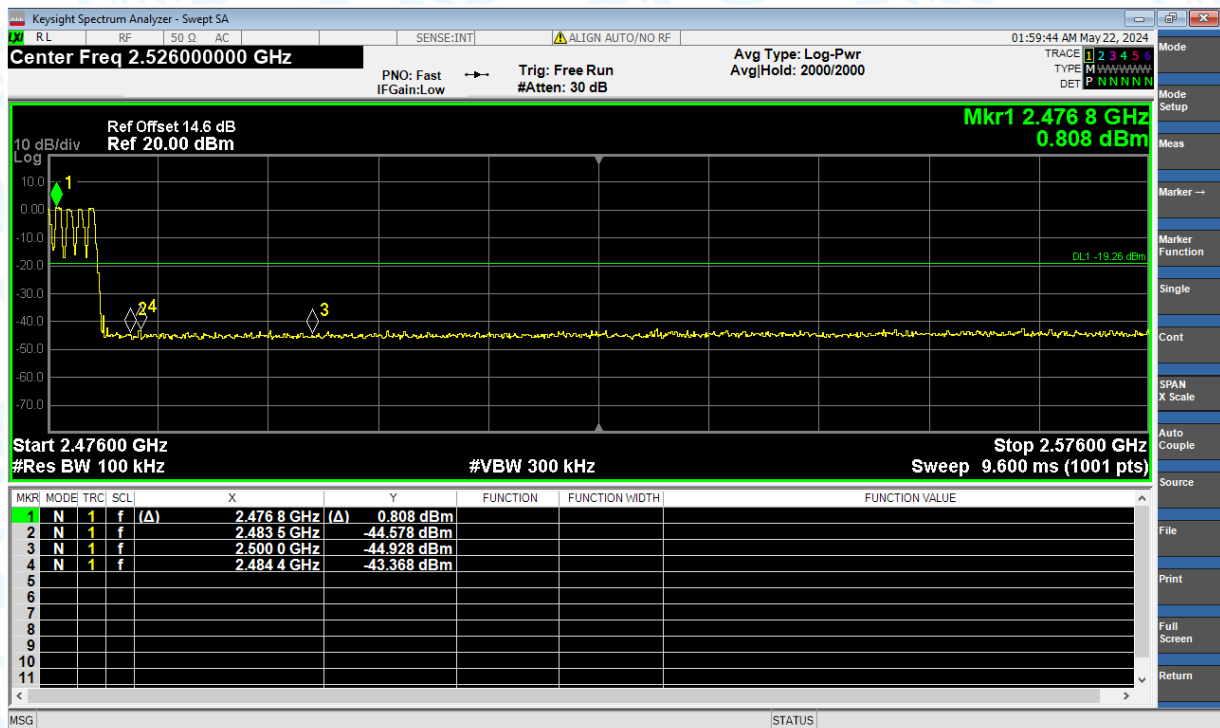
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



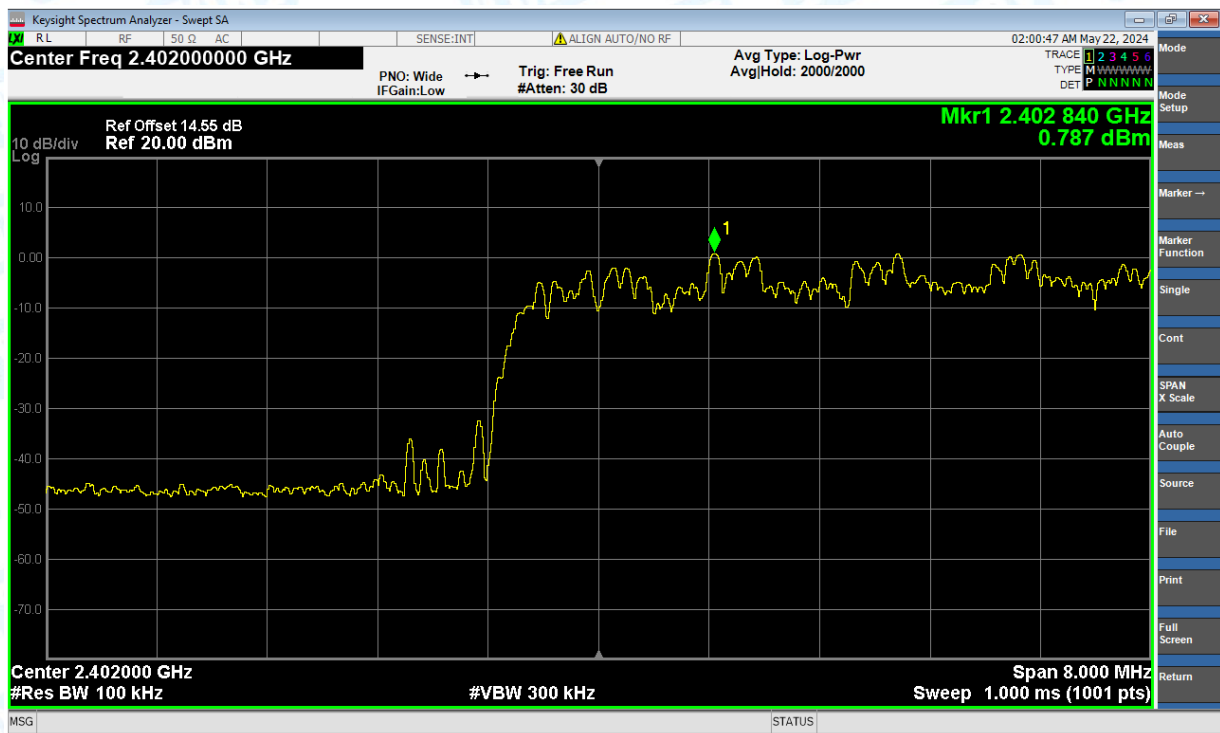
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



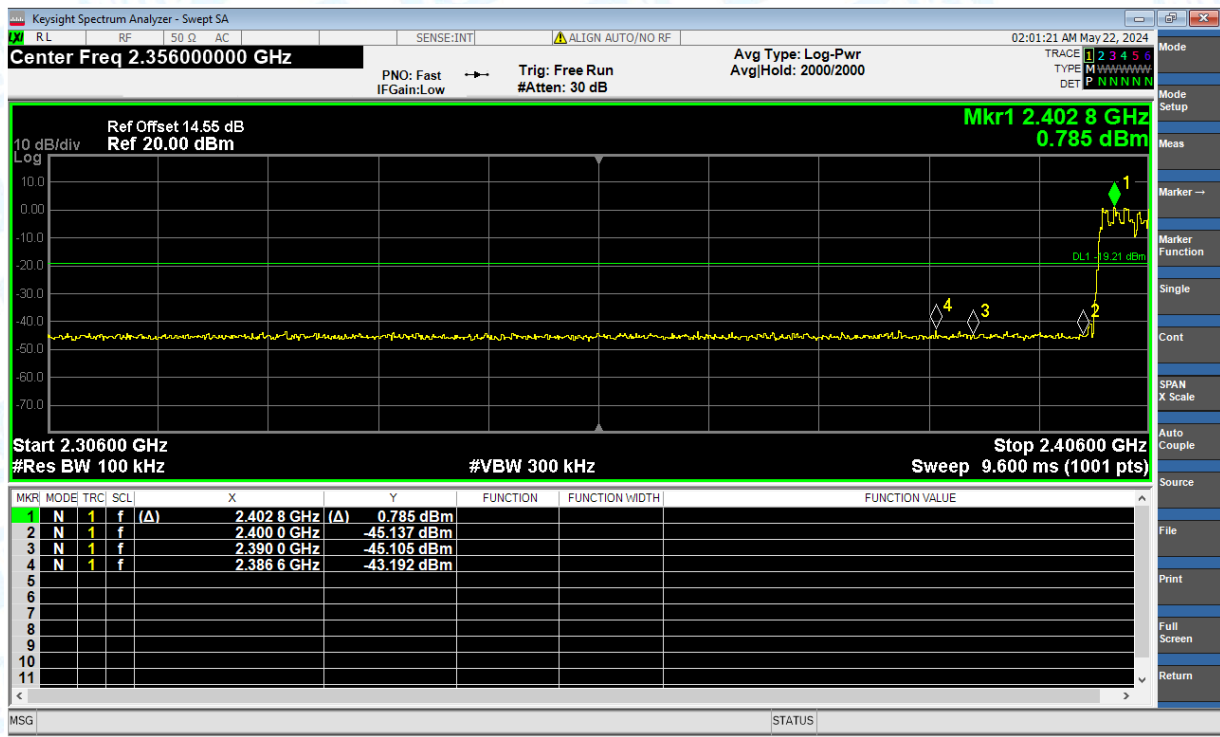
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



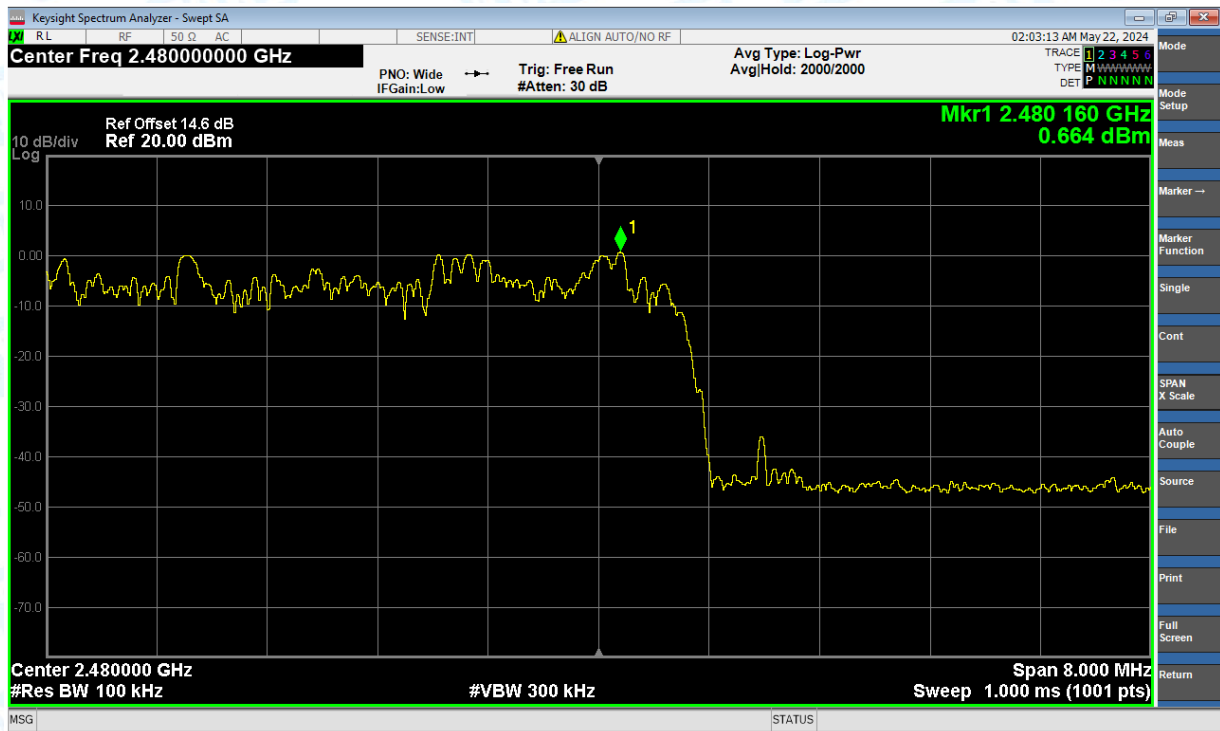
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



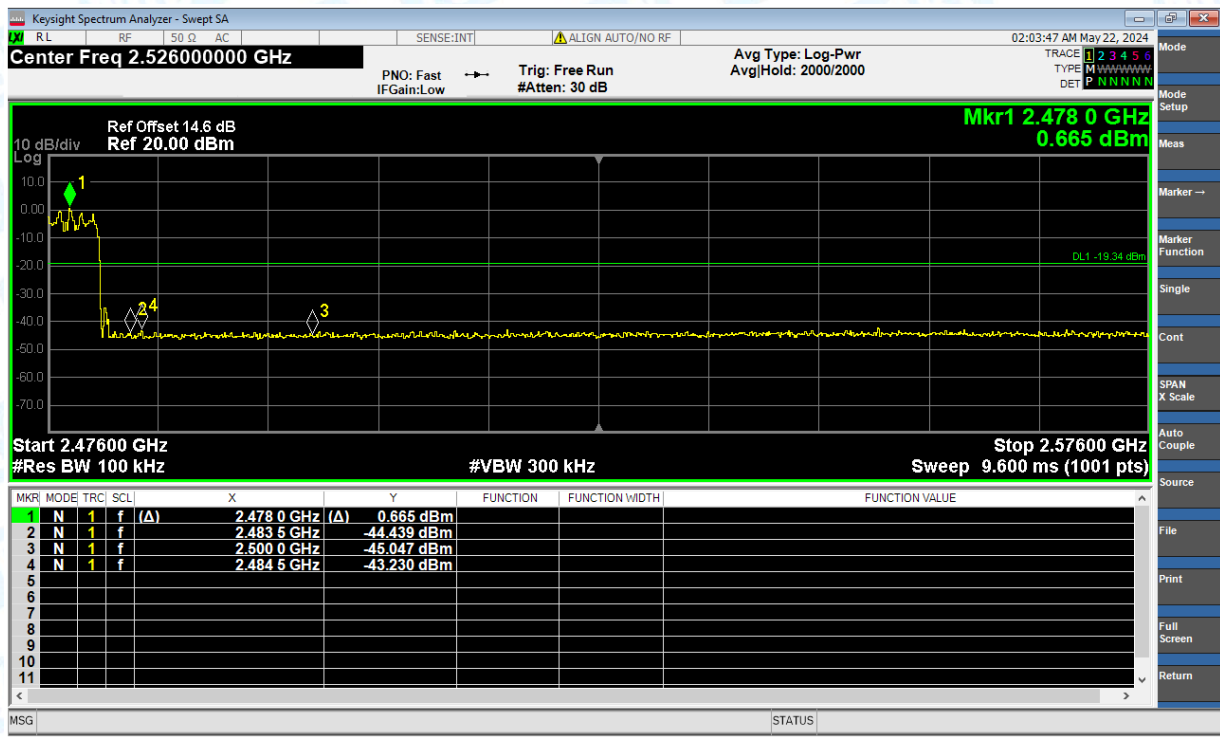
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



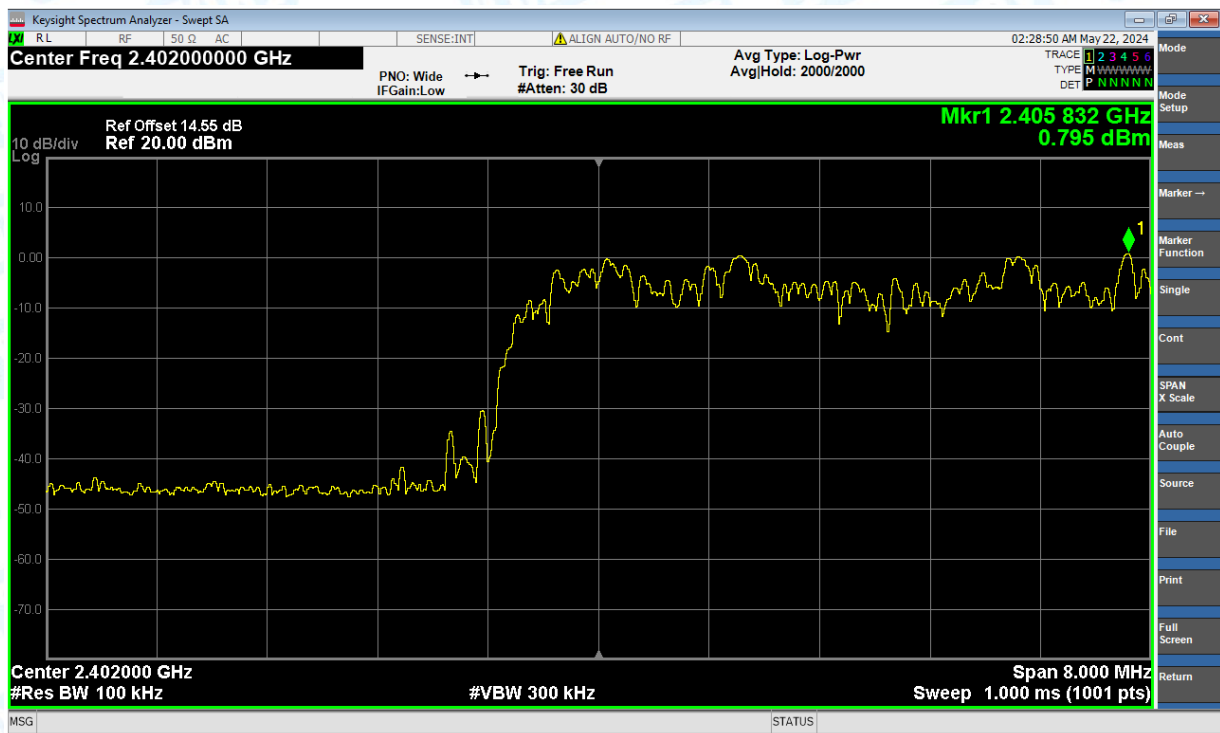
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



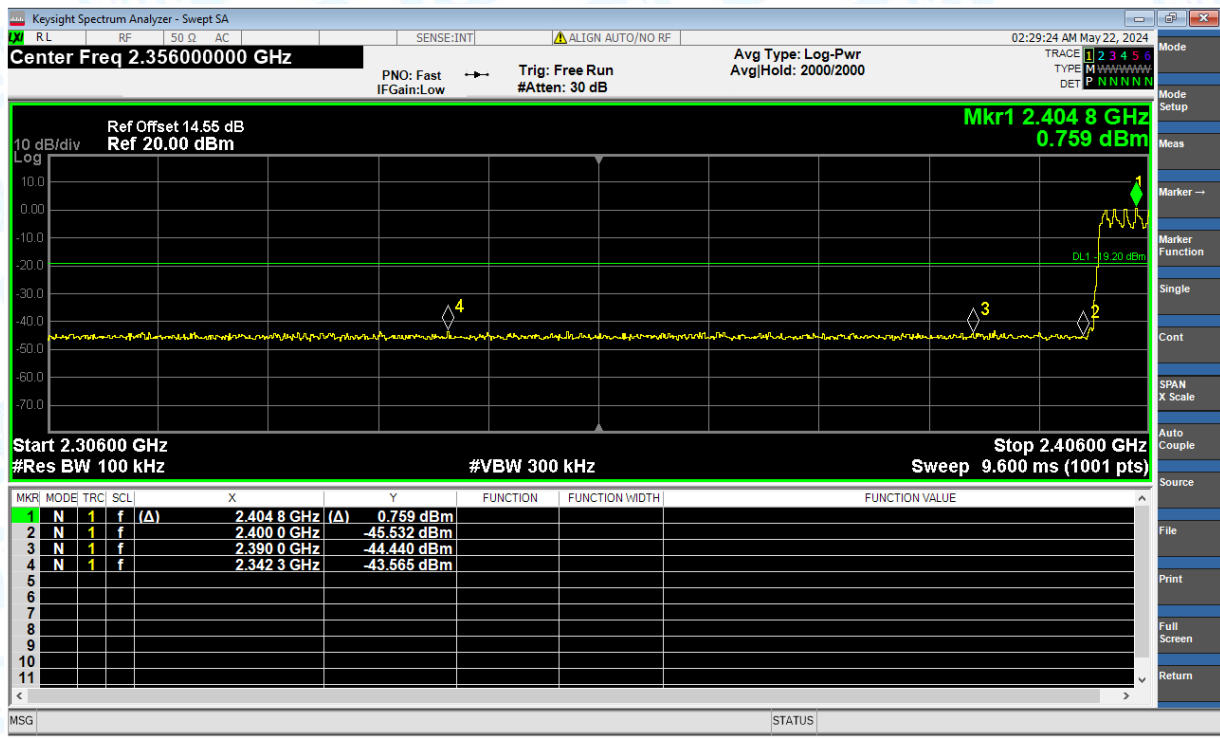
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



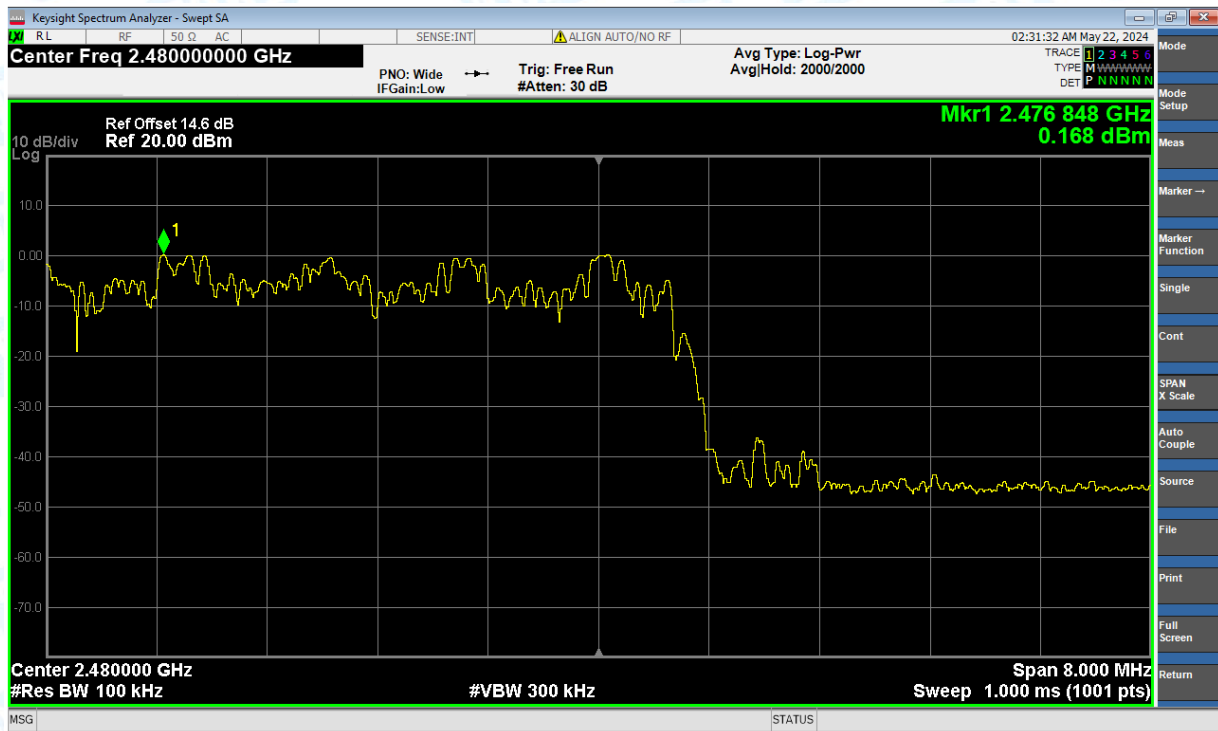
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



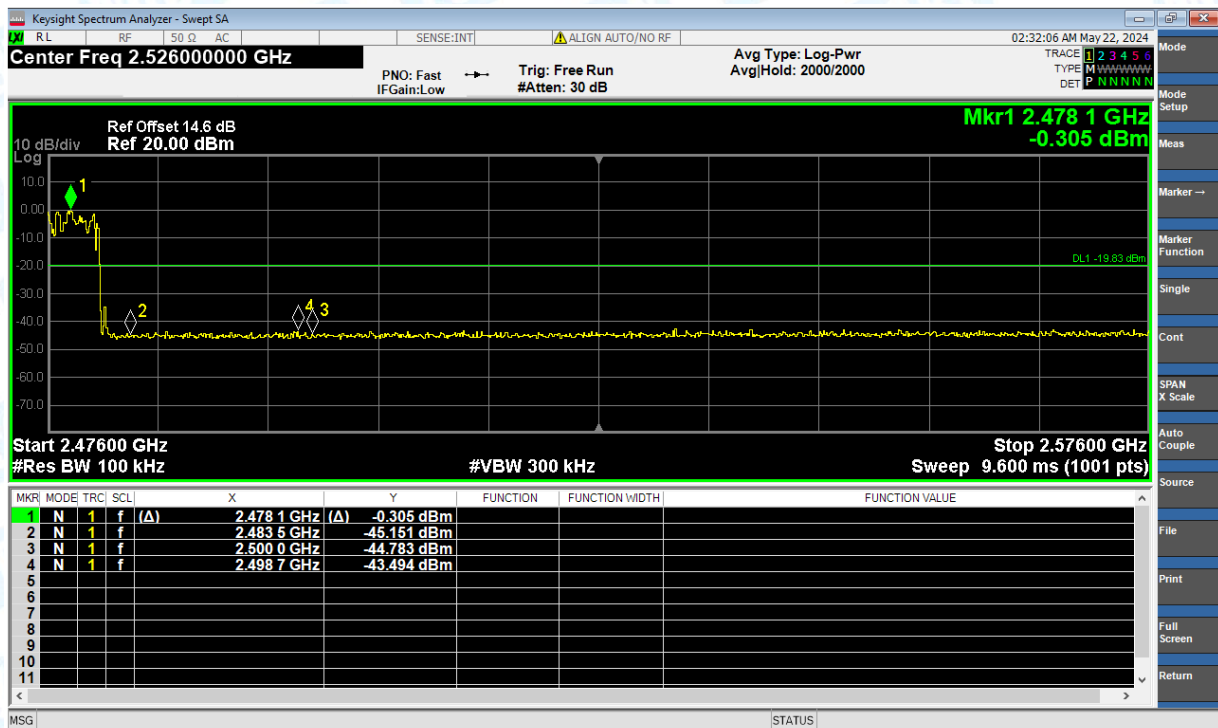
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

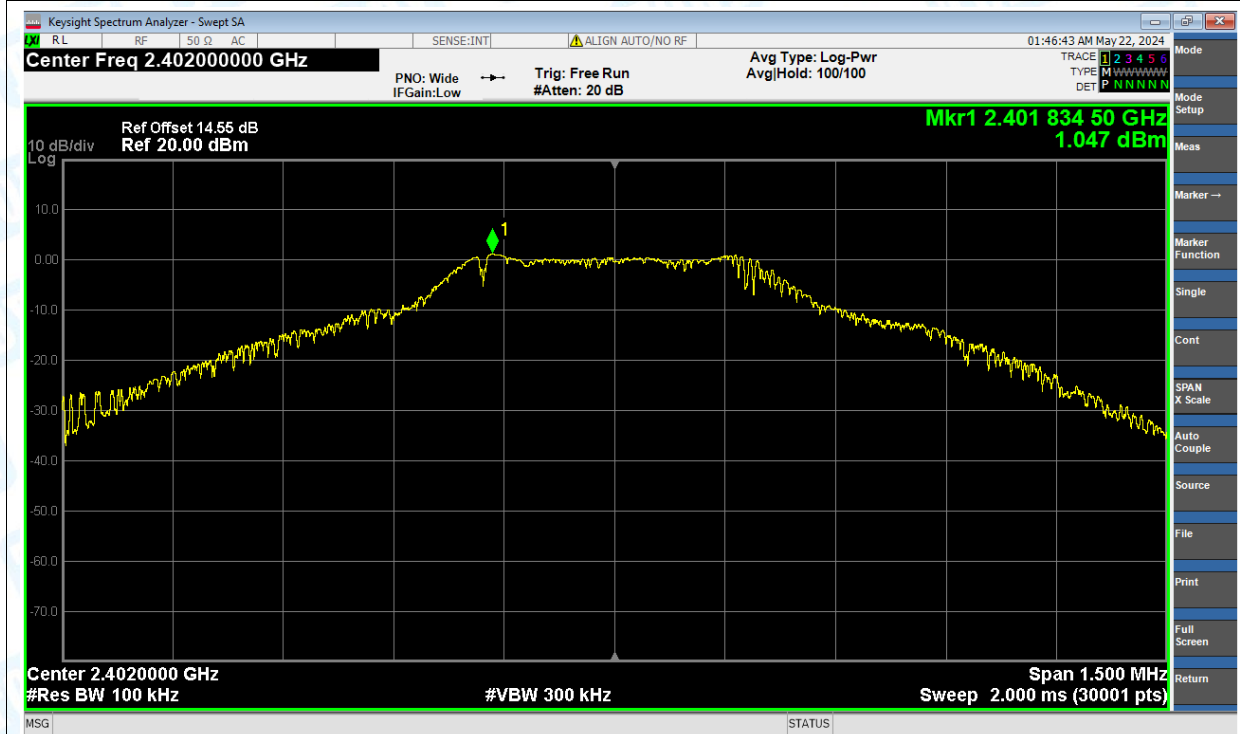


7. Conducted RF Spurious Emission

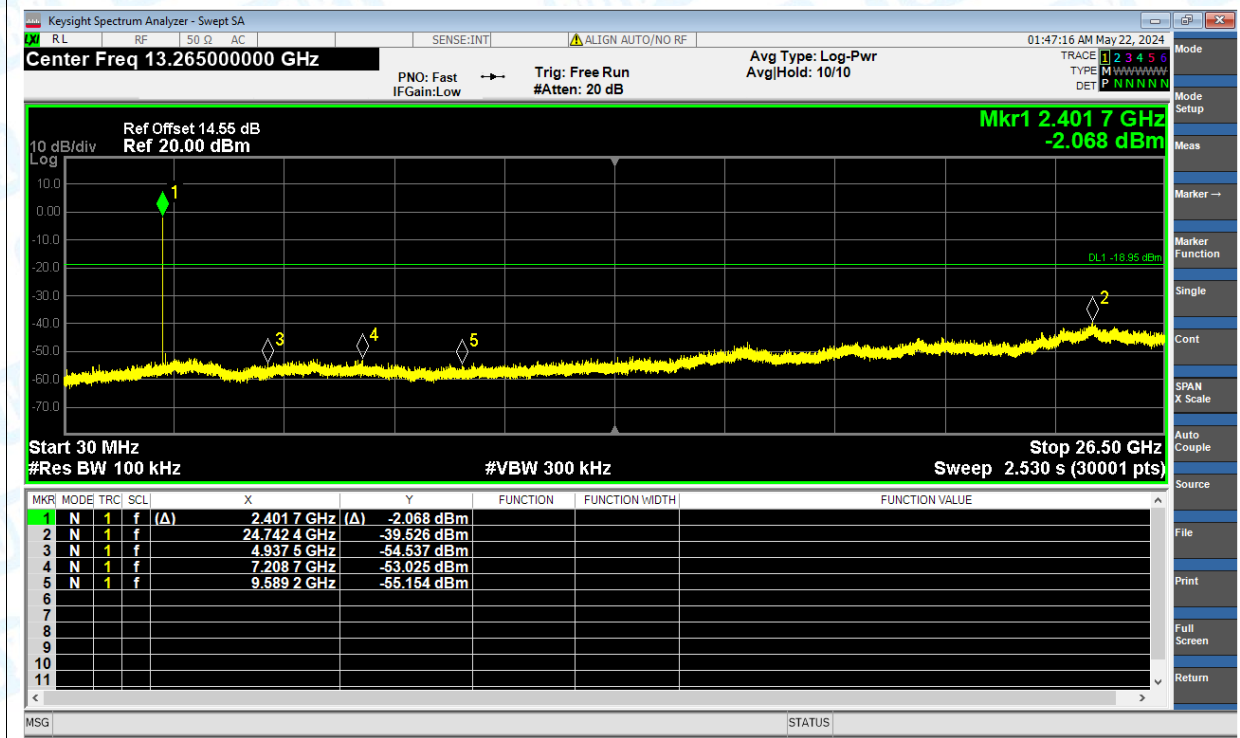
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-40.58	-20	Pass
NVNT	1-DH1	2441	Ant1	-40.3	-20	Pass
NVNT	1-DH1	2480	Ant1	-39.94	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.57	-20	Pass
NVNT	2-DH1	2441	Ant1	-40.49	-20	Pass
NVNT	2-DH1	2480	Ant1	-40.45	-20	Pass
NVNT	3-DH1	2402	Ant1	-41.09	-20	Pass
NVNT	3-DH1	2441	Ant1	-41.13	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.44	-20	Pass

Test Graphs

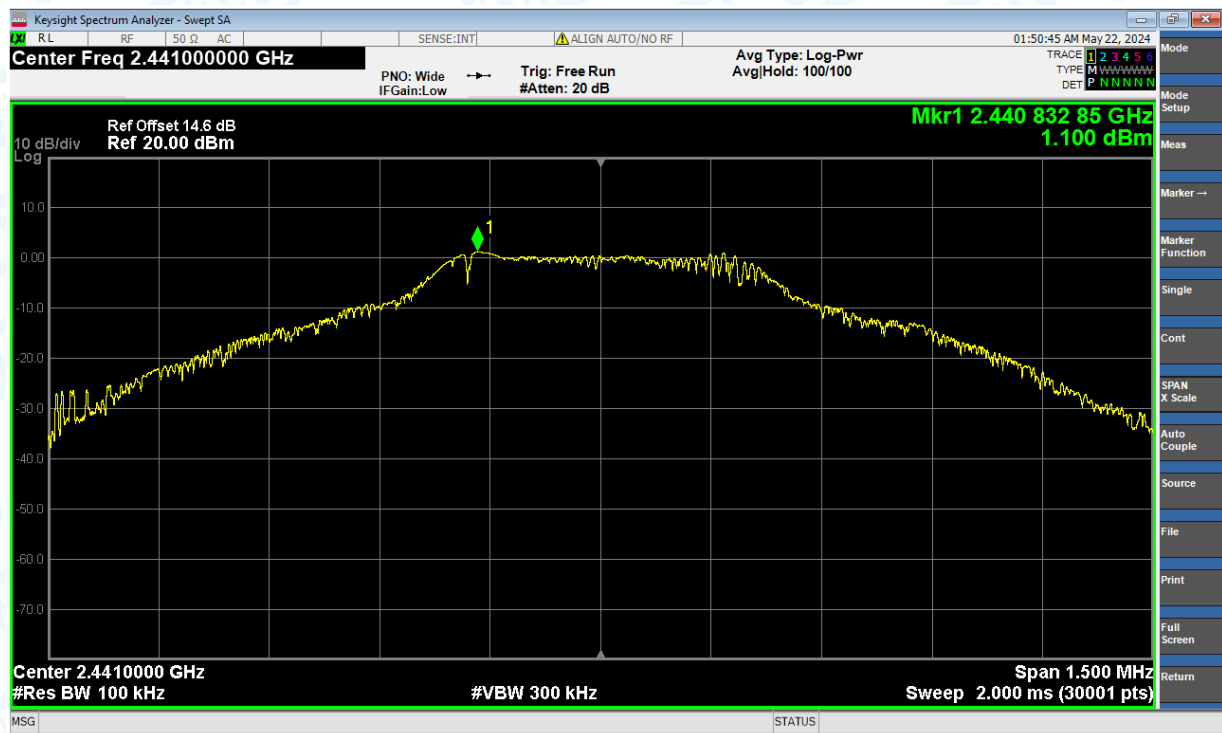
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



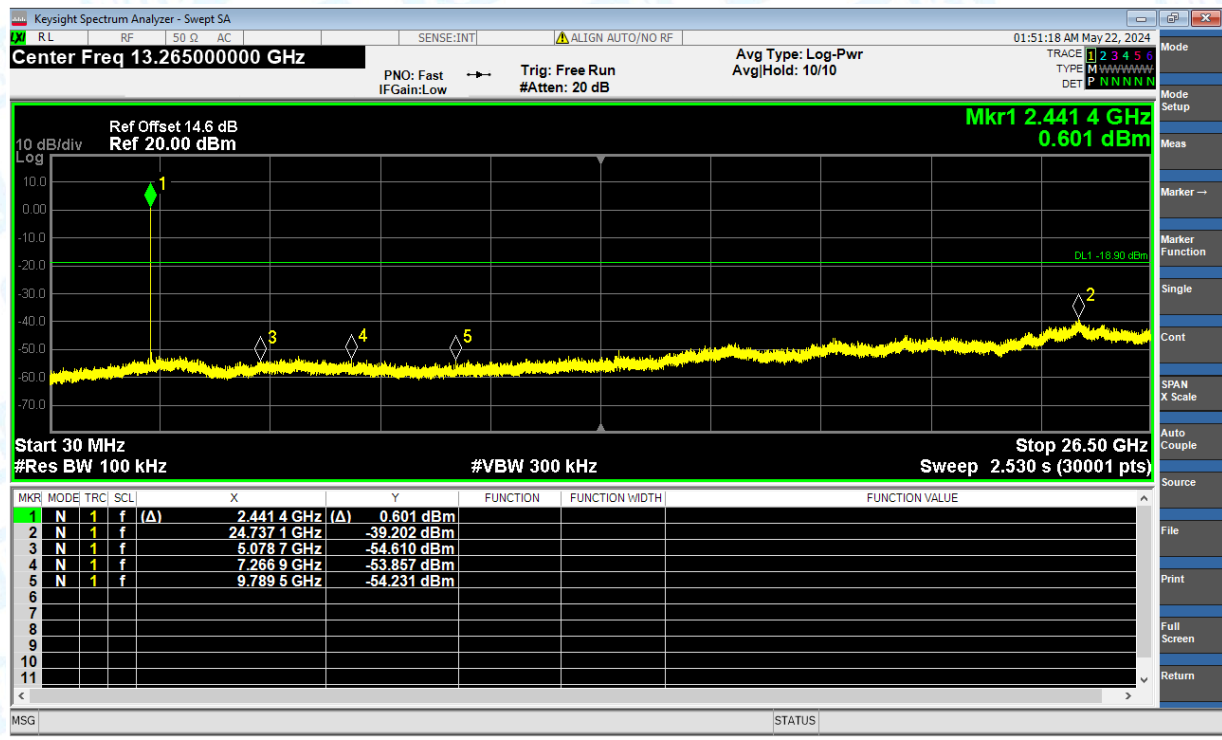
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



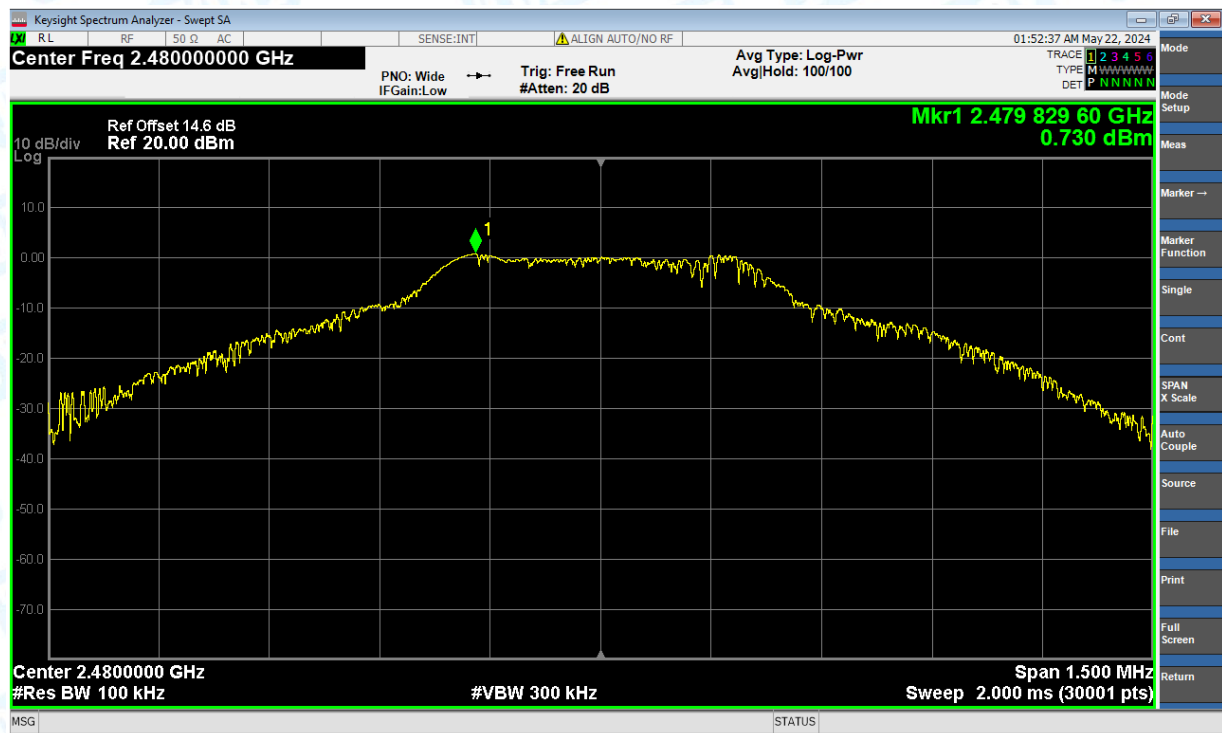
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



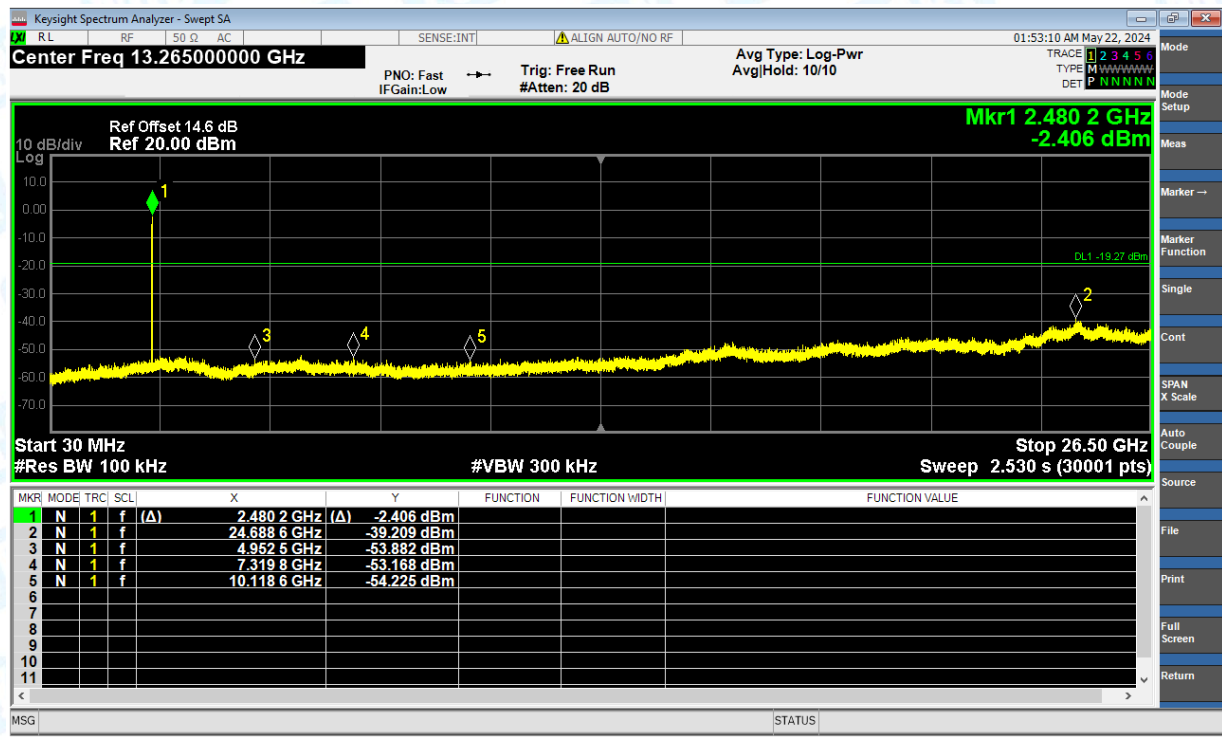
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



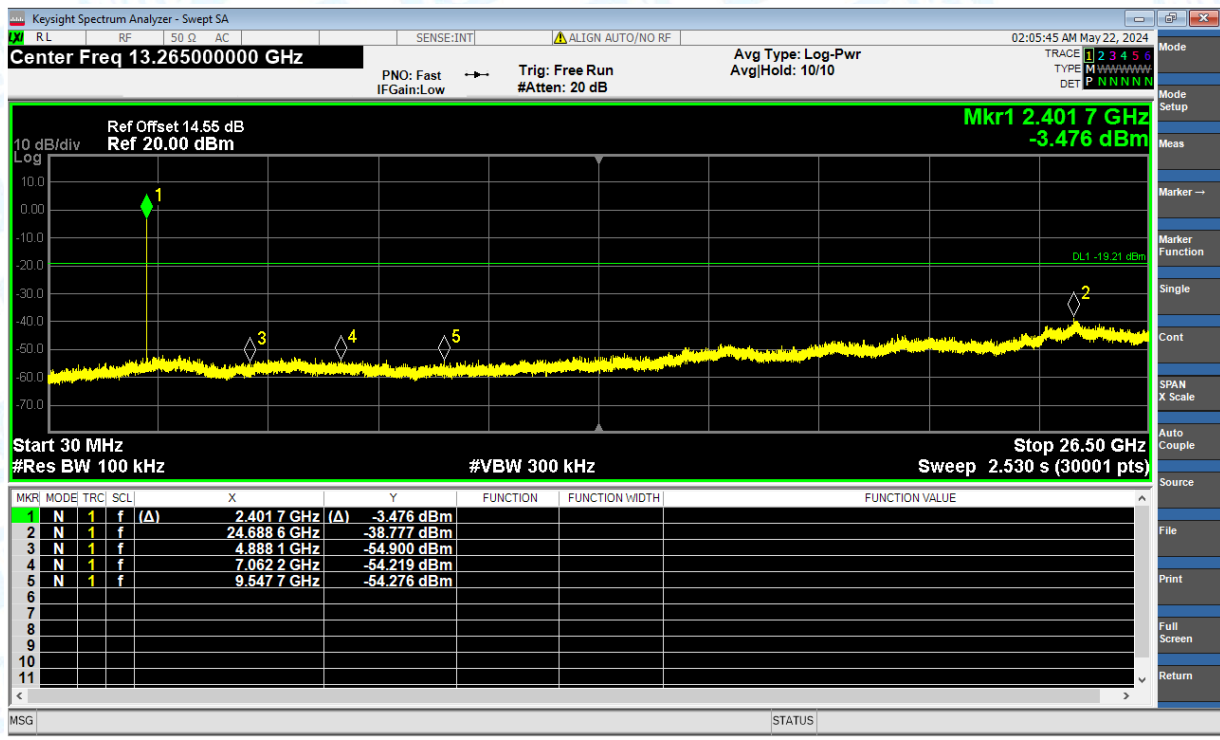
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



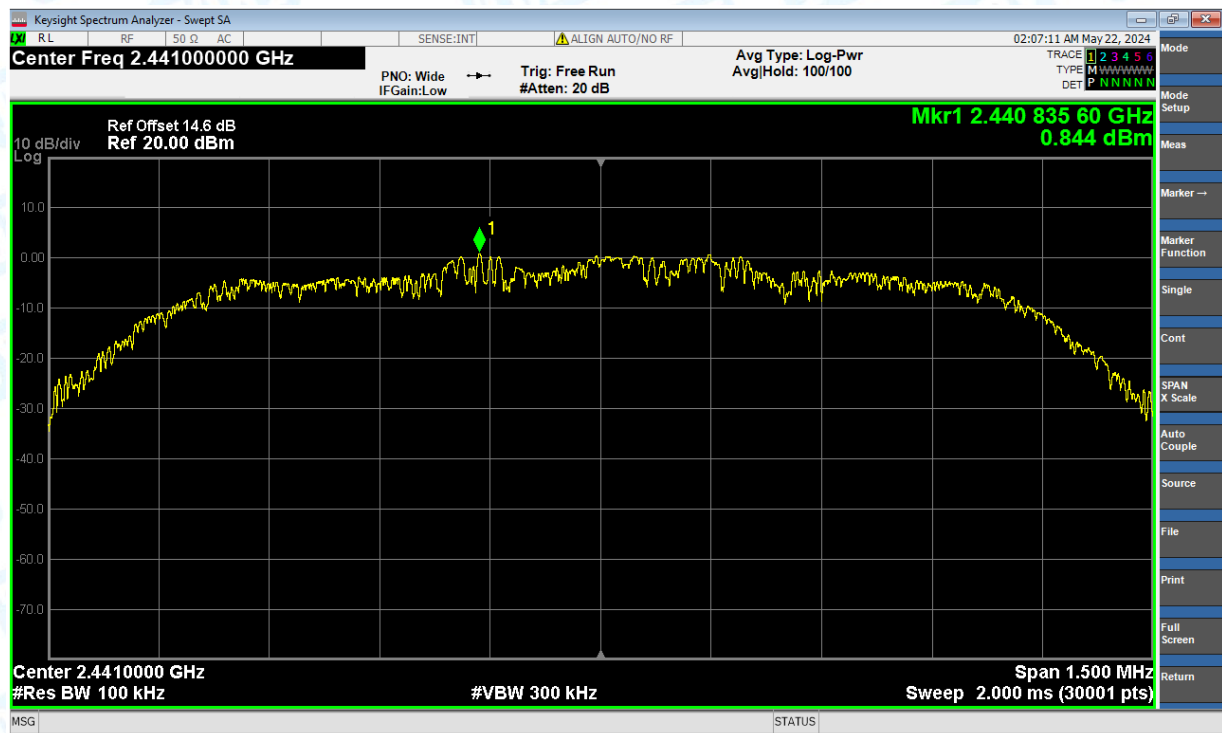
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



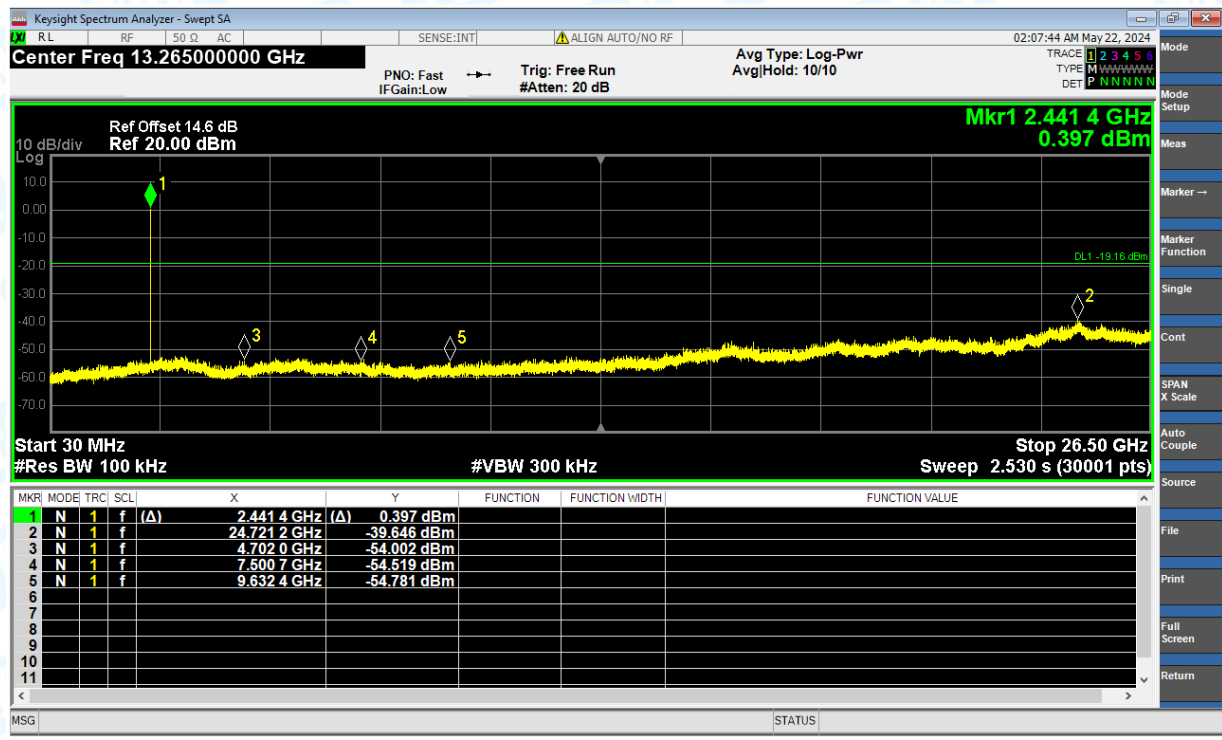
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



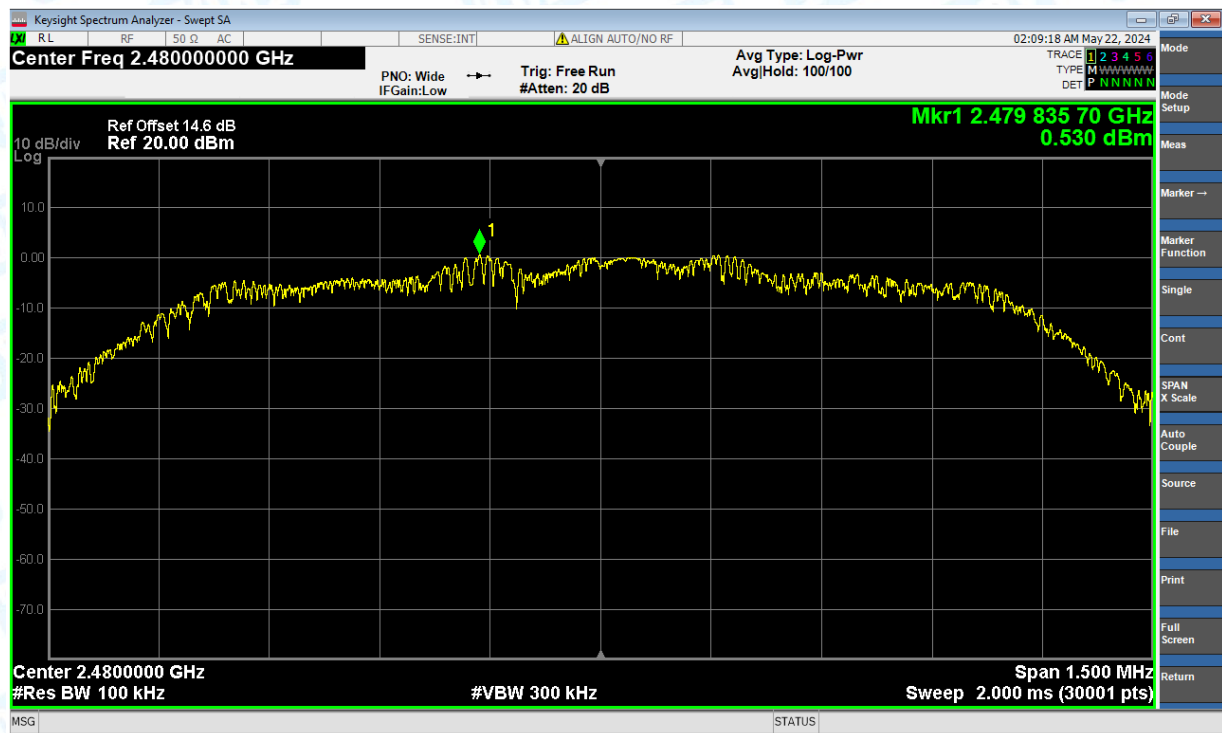
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



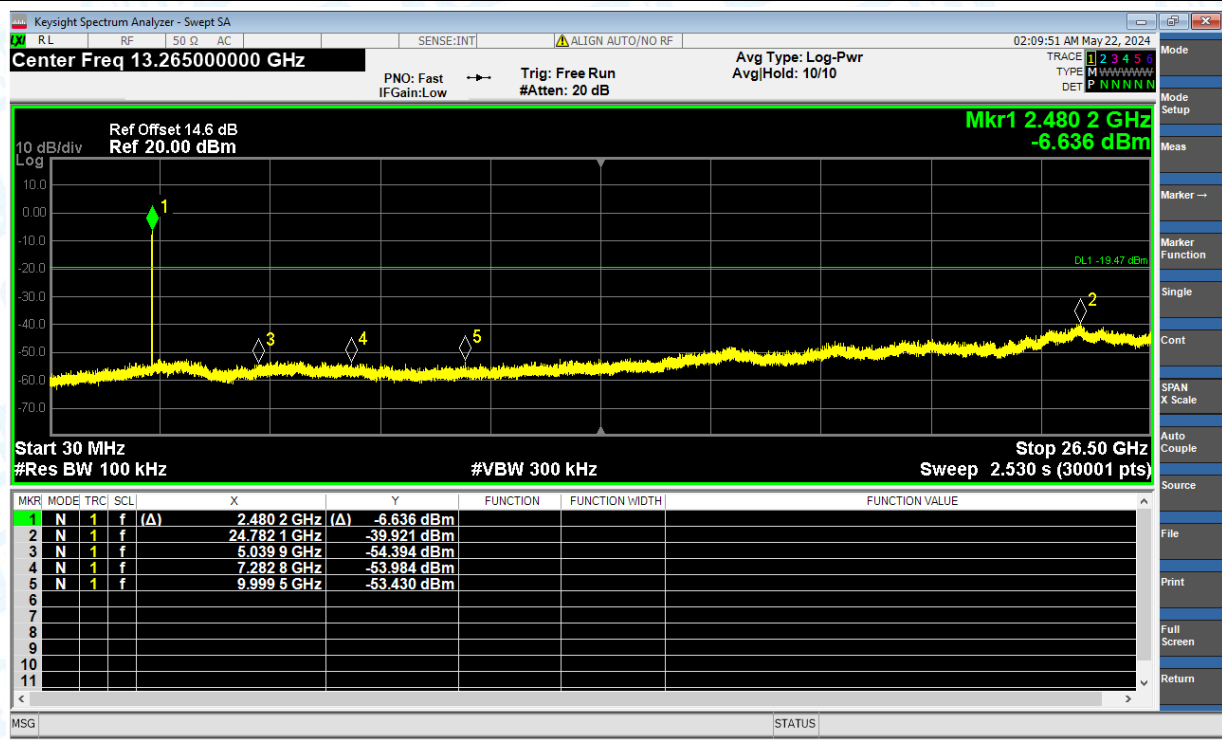
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



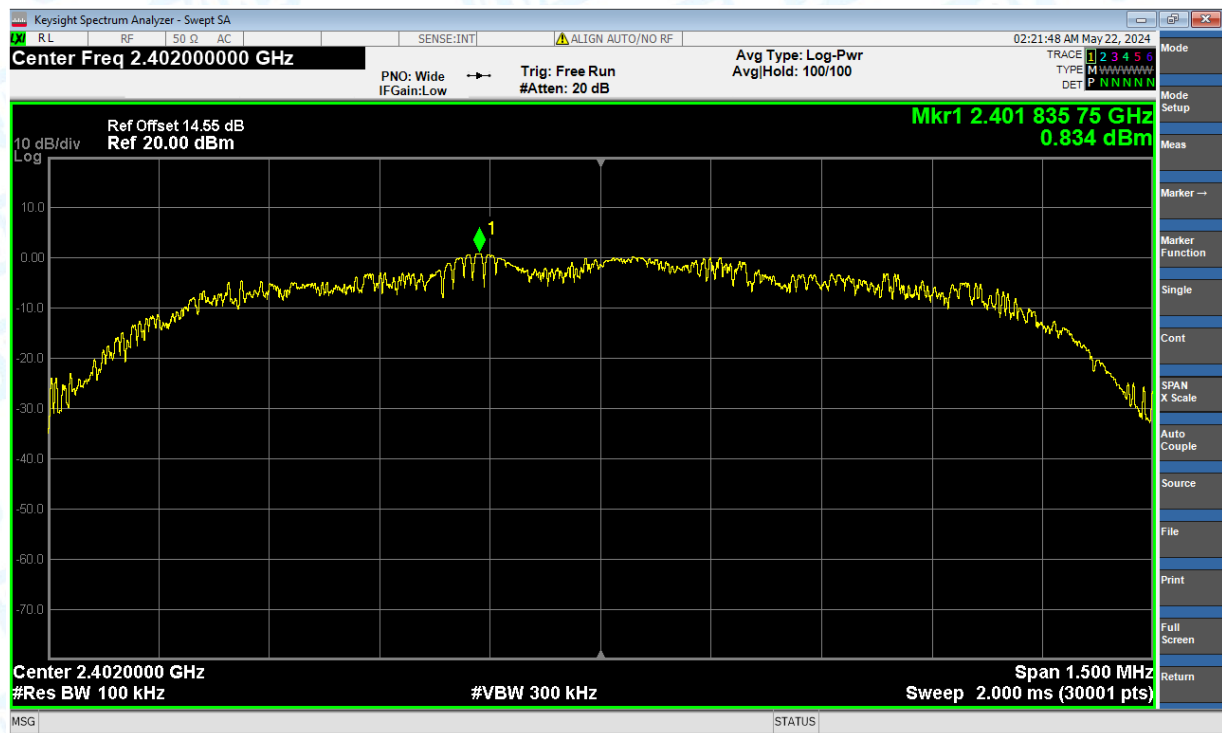
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



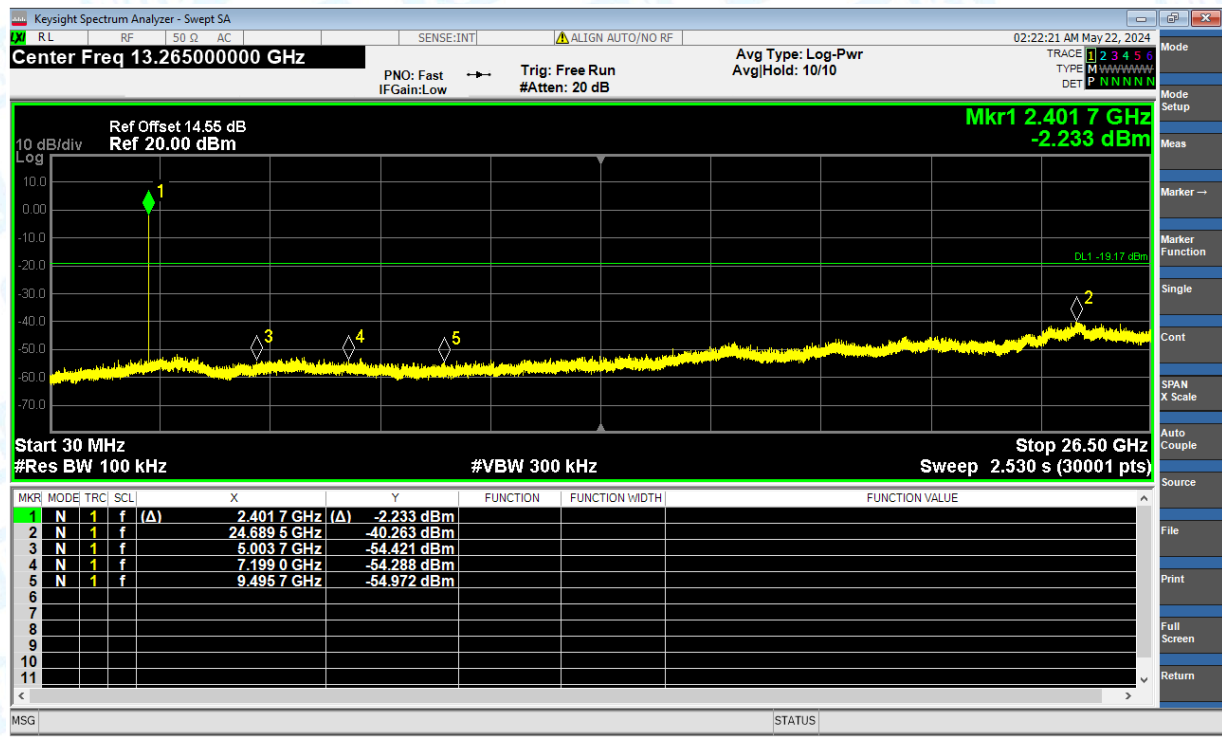
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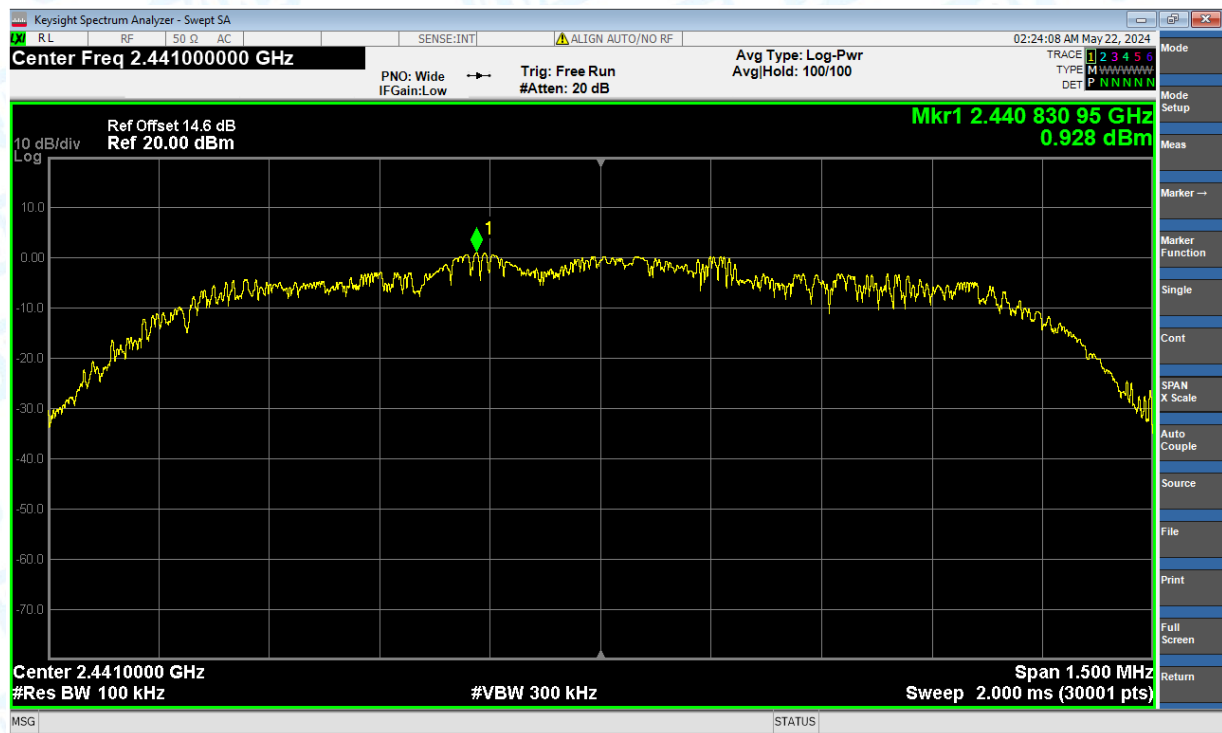
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



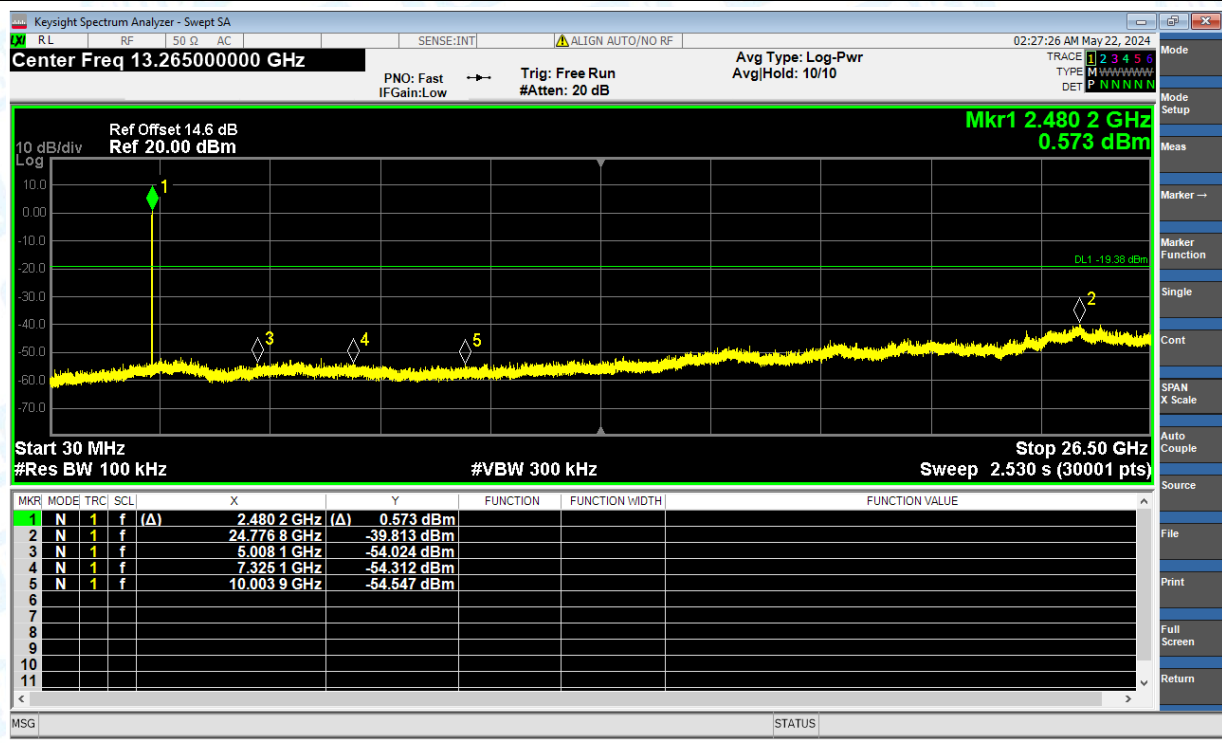
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

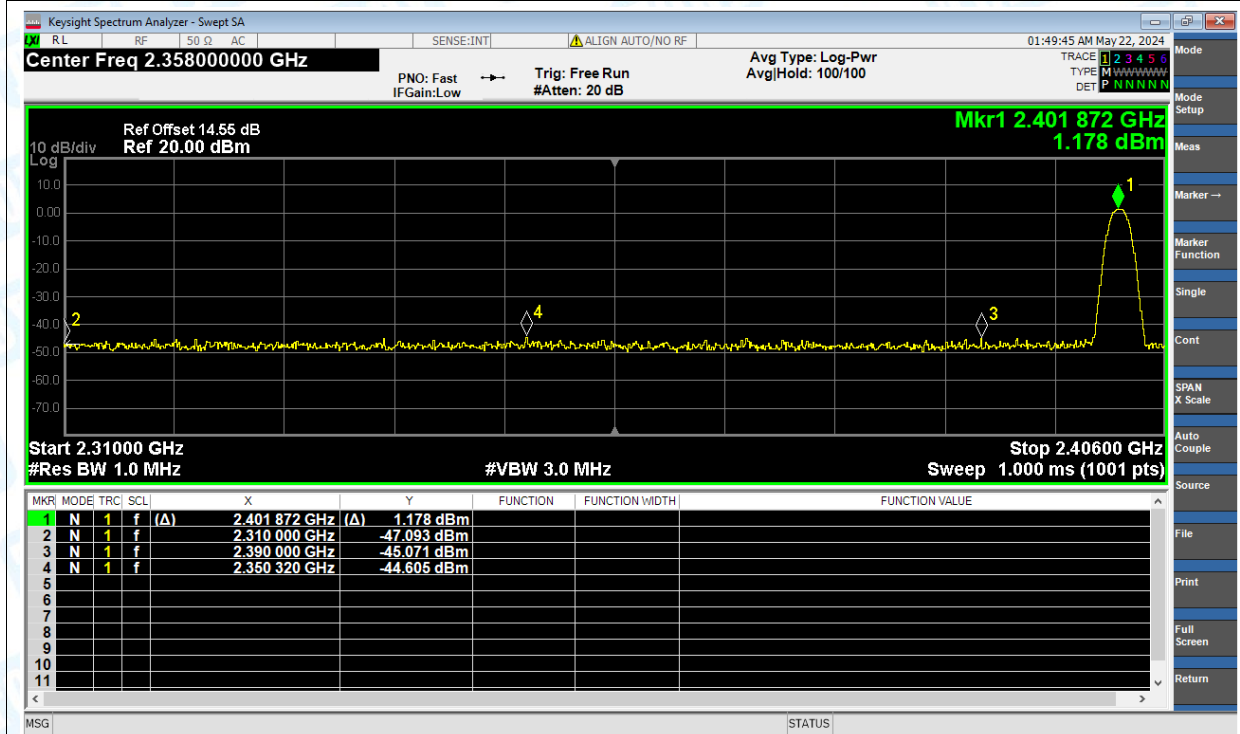


8. Restrict Band

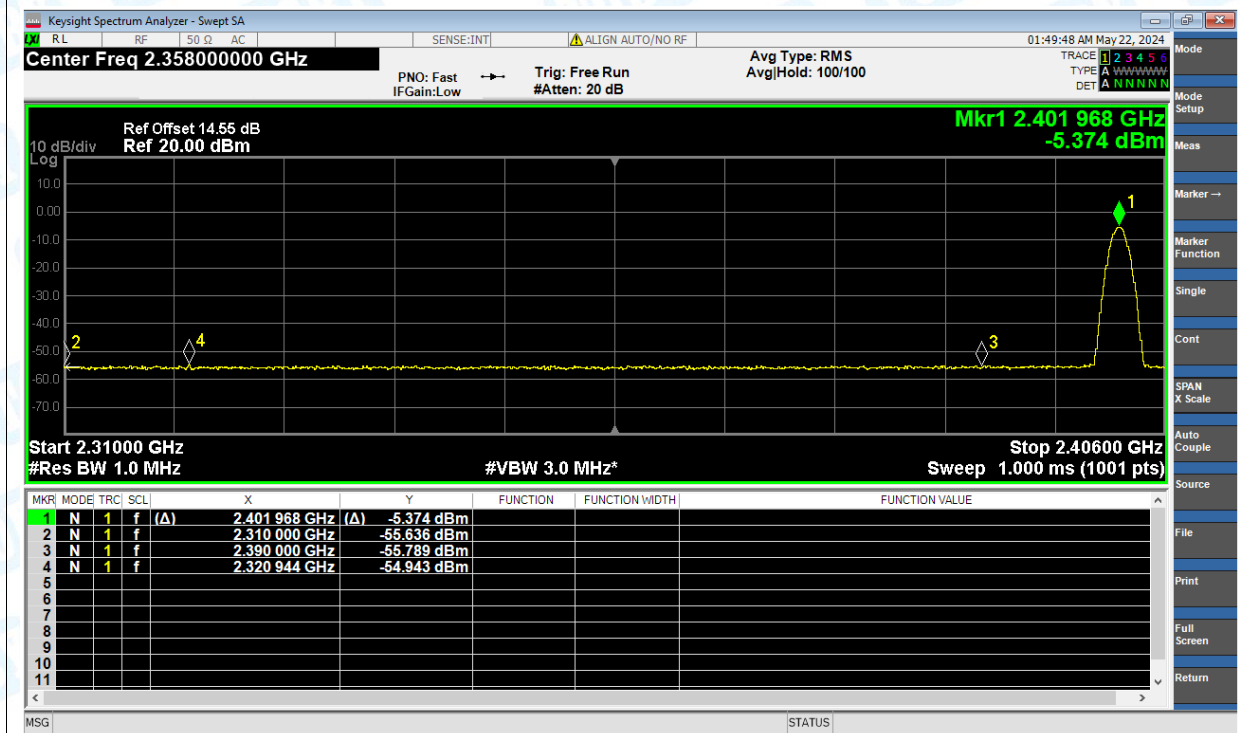
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.09	2	-	50.17	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.64	2	4.95	46.57	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2350.32	-44.61	2	-	52.65	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2320.944	-54.94	2	4.95	47.27	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.07	2	-	52.19	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.79	2	4.95	46.42	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.46	2	-	49.8	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.09	2	5.06	47.23	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2494.456	-44.69	2	-	52.57	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.656	-54.4	2	5.06	47.92	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.07	2	-	49.19	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.26	2	5.06	47.06	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.12	2	-	50.14	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.86	2	5.06	47.46	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.872	-44.57	2	-	52.69	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2491.192	-54.35	2	5.06	47.97	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.89	2	-	49.37	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.51	2	5.06	46.81	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.04	2	-	49.22	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.78	2	5.17	46.65	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2365.008	-44.41	2	-	52.85	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2383.44	-54.89	2	5.17	47.54	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.21	2	-	51.05	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.8	2	5.17	46.63	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.64	2	-	48.62	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.6	2	5.06	46.72	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2489.584	-44.05	2	-	53.21	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2494.888	-54.59	2	5.06	47.73	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.78	2	-	49.48	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-56.04	2	5.06	46.28	Average	54	Pass

Test Graphs

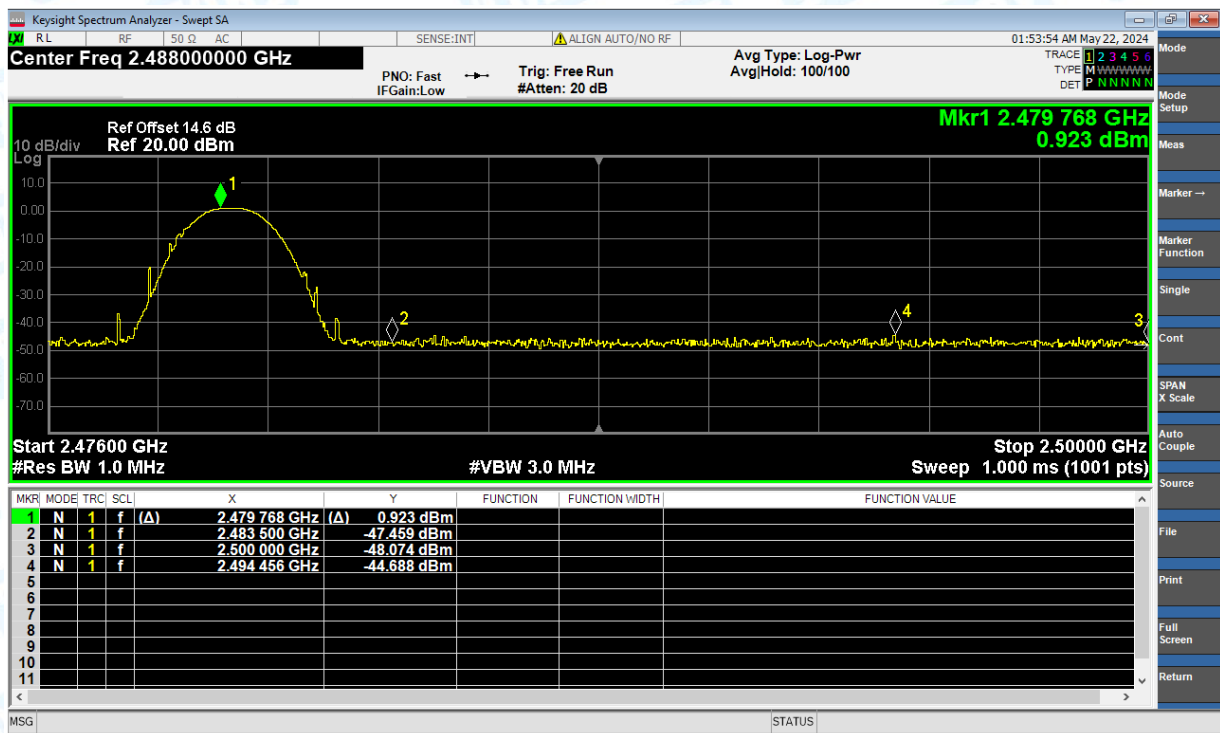
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



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



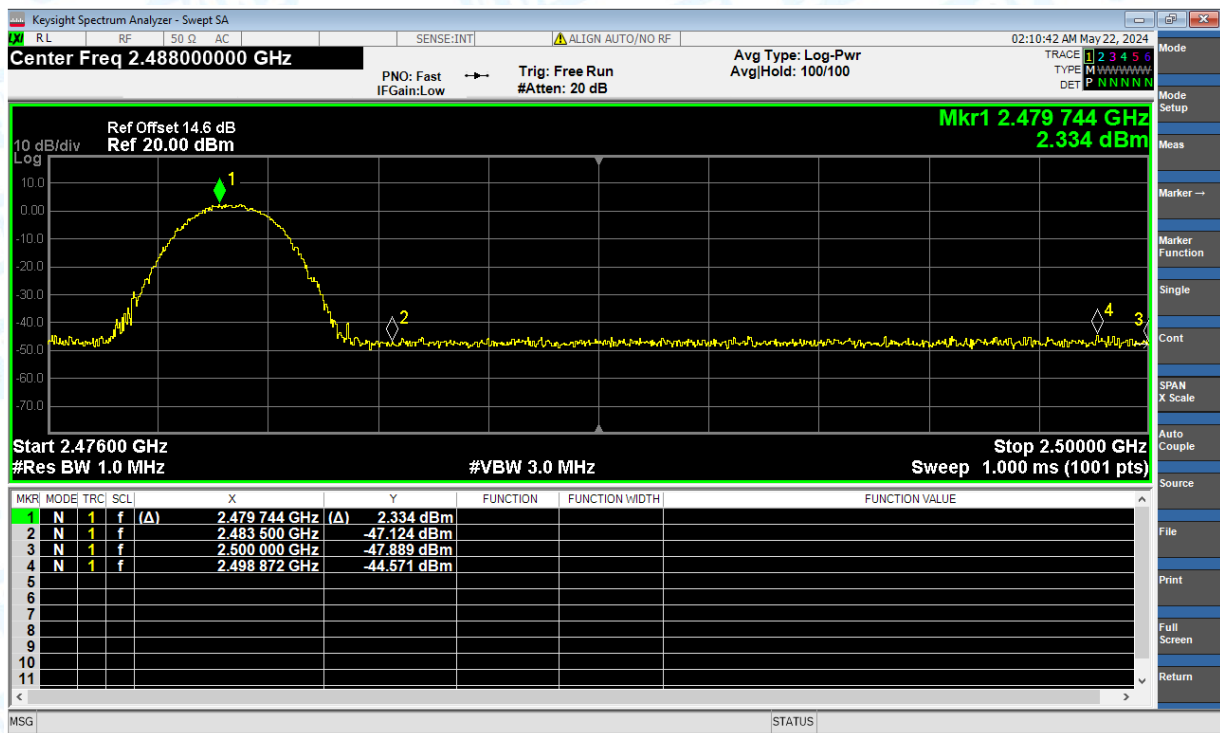
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



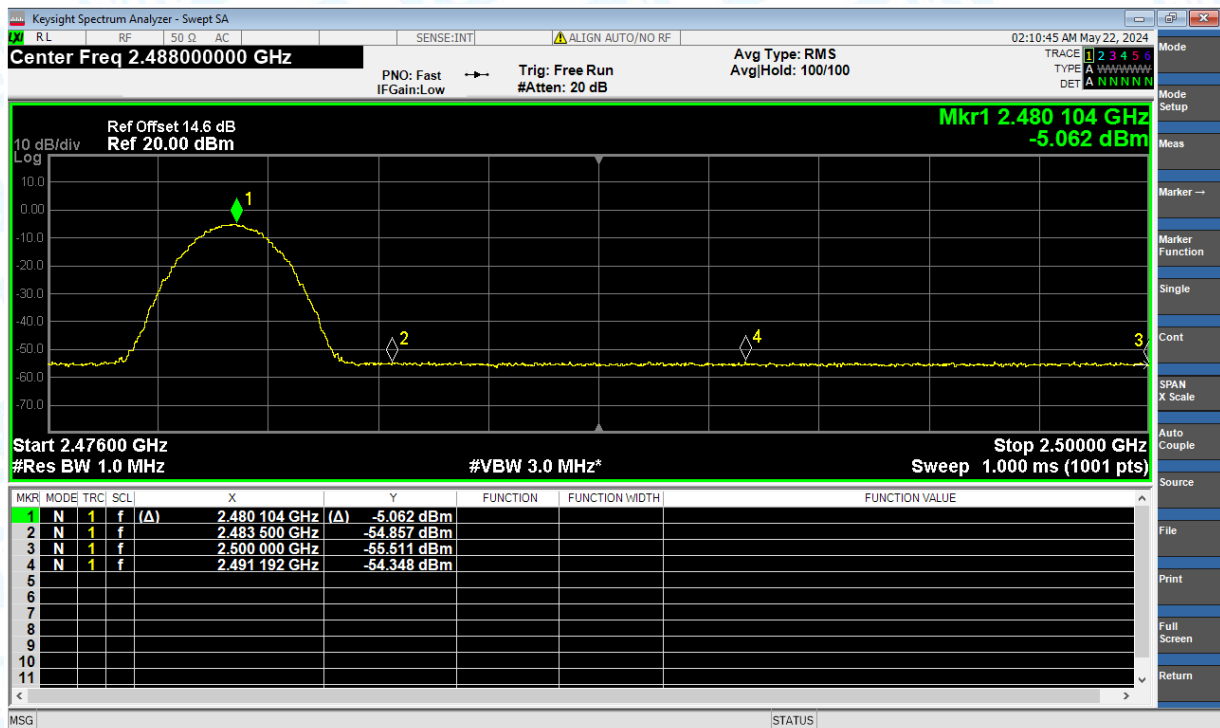
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



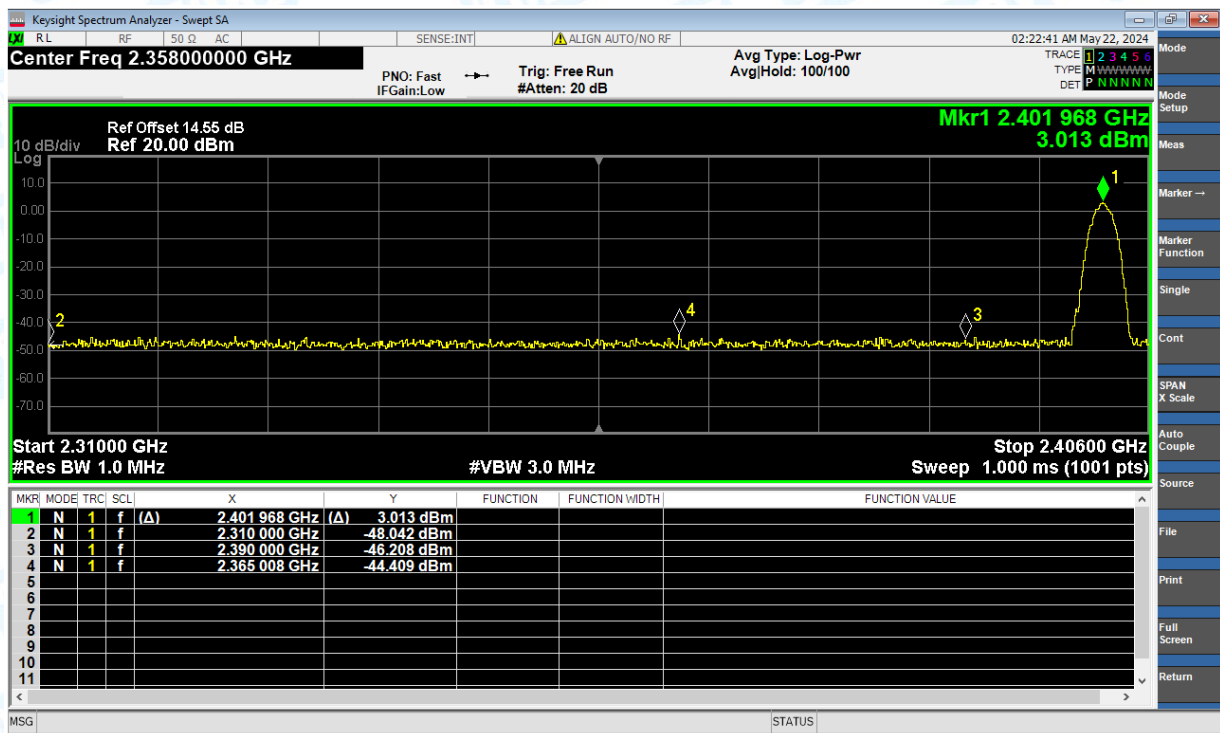
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



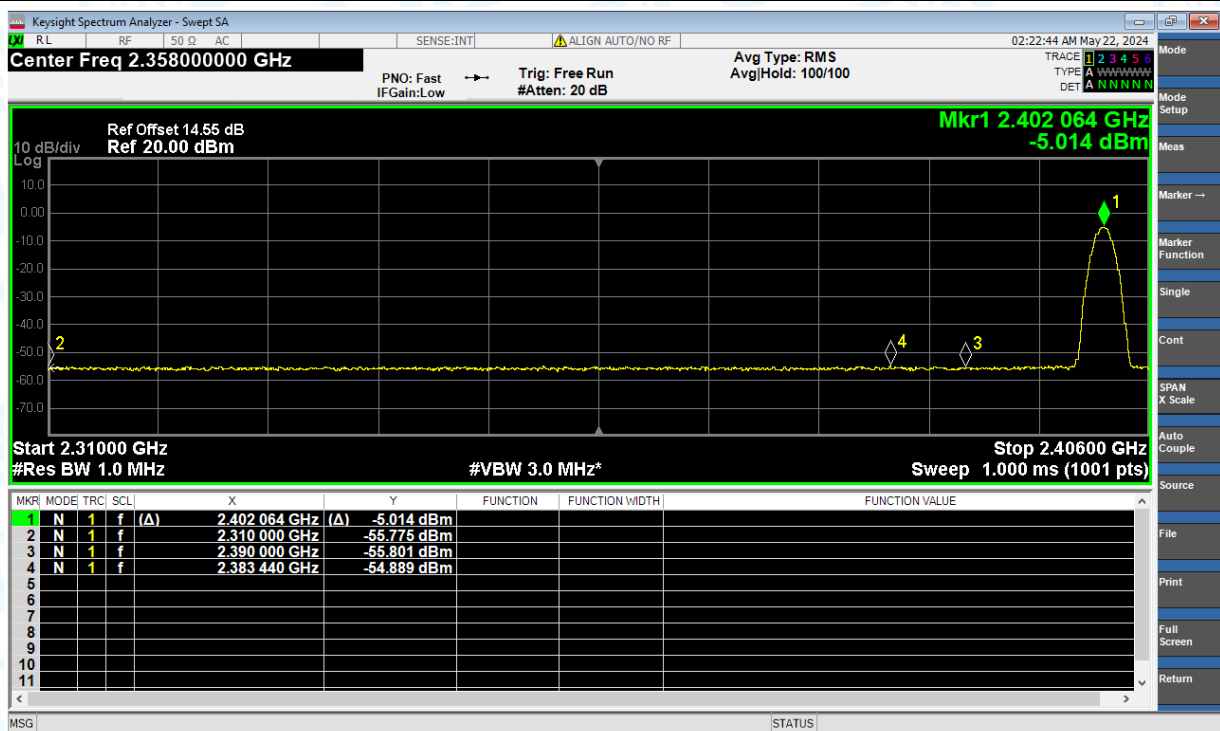
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



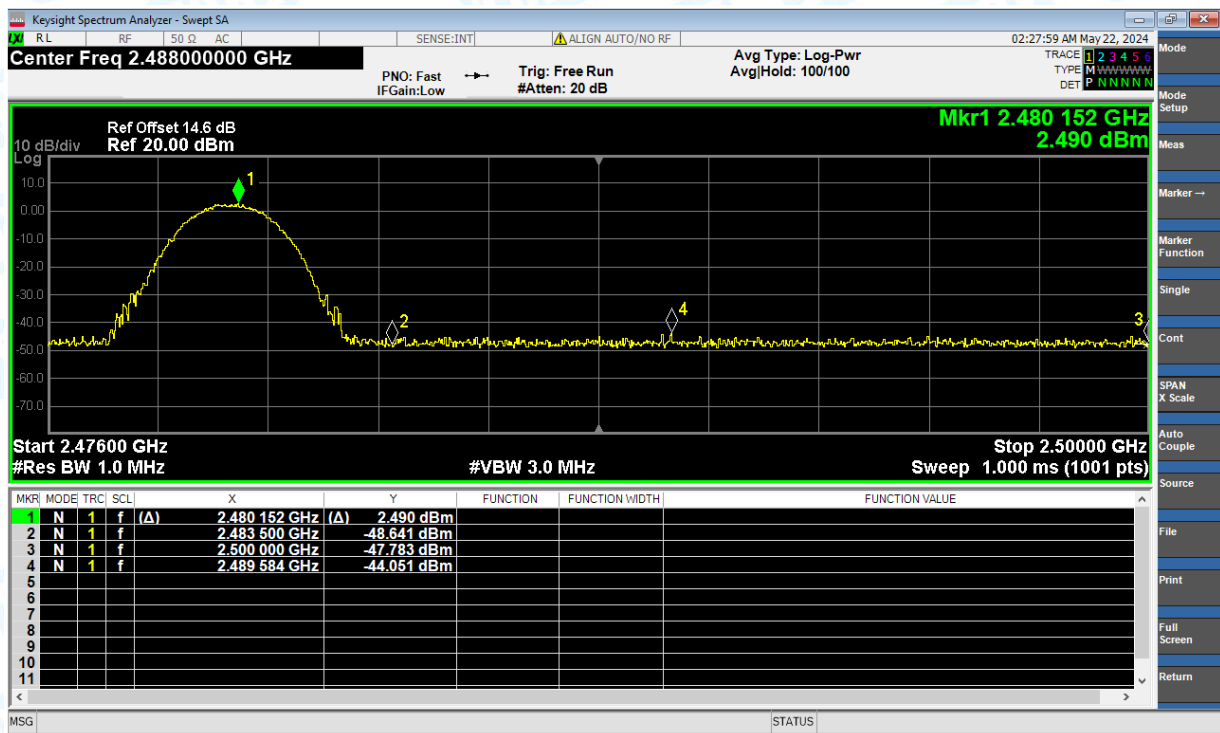
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



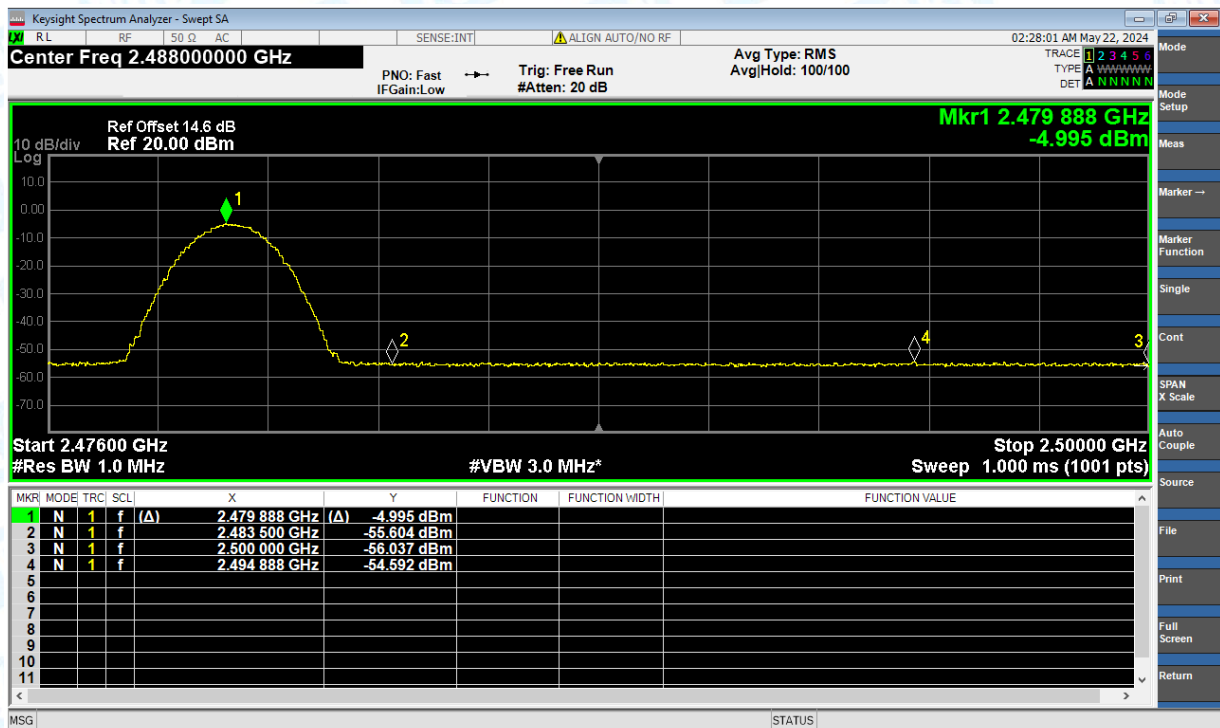
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

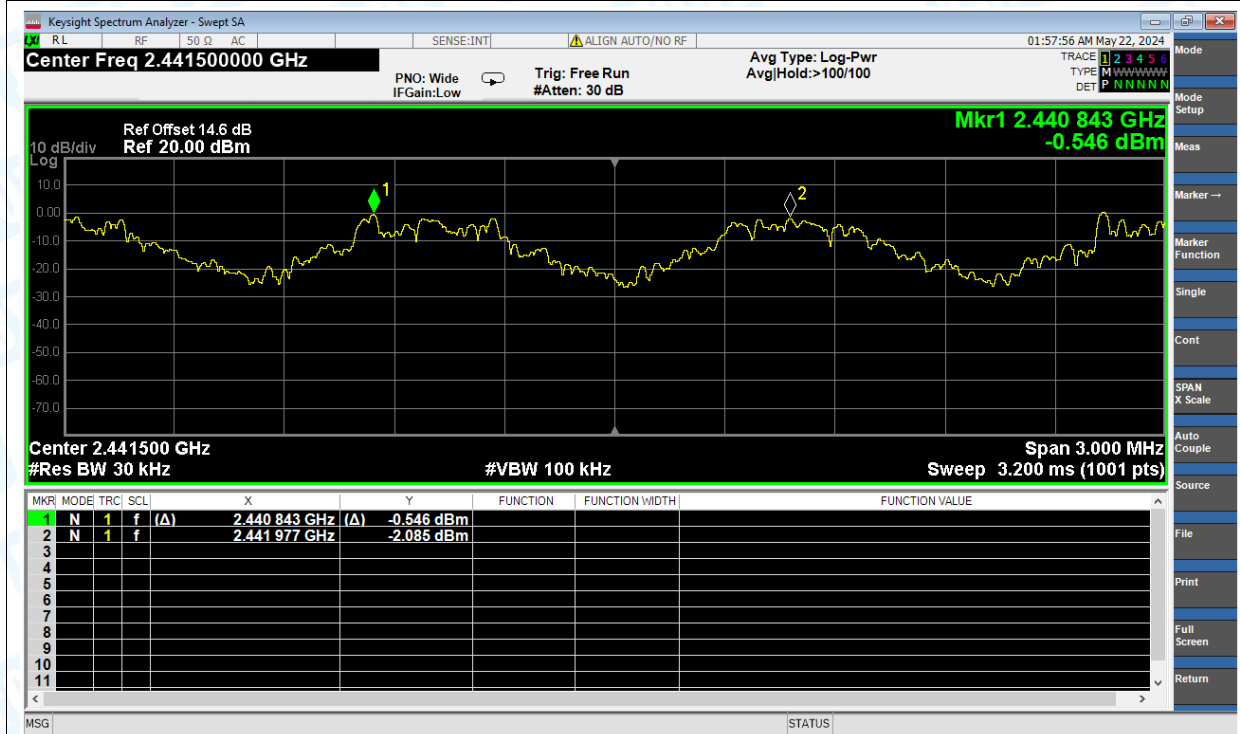


9. Carrier Frequencies Separation

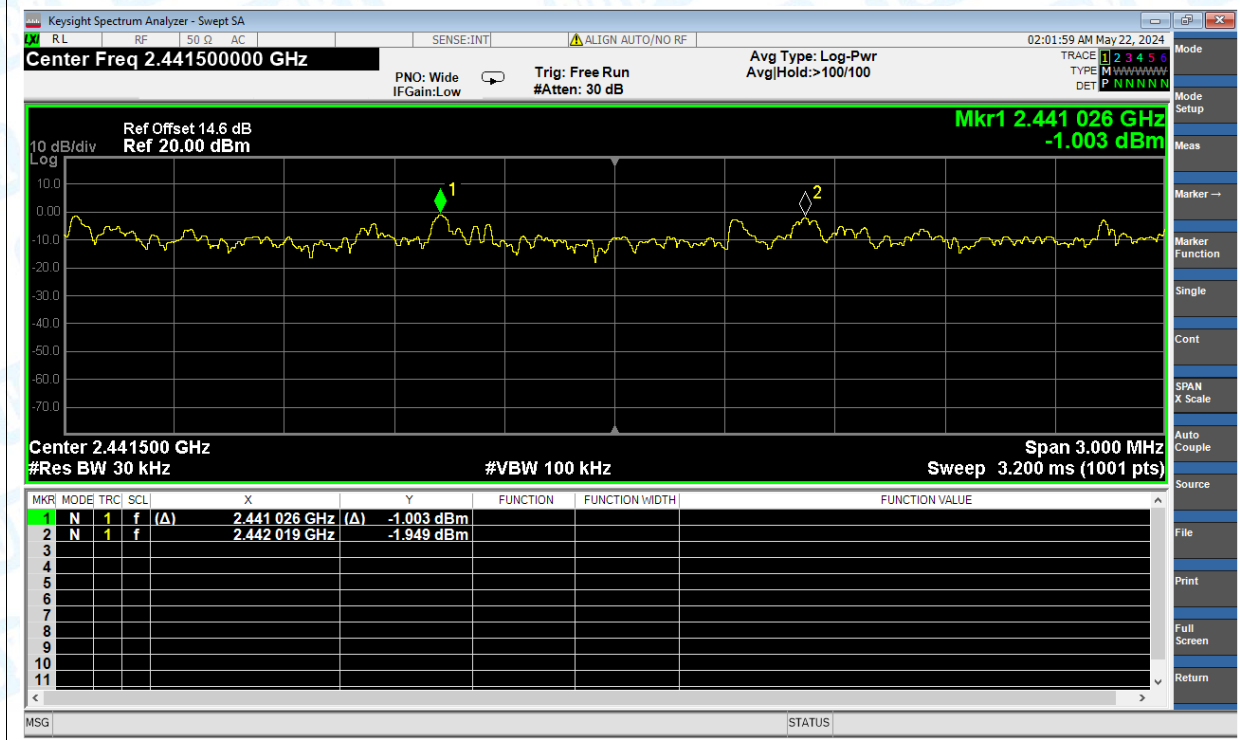
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.843	2441.977	1.134	0.587	Pass
NVNT	2-DH1	Ant1	2441.026	2442.019	0.993	0.025	Pass
NVNT	3-DH1	Ant1	2441.017	2442.007	0.99	0.827	Pass

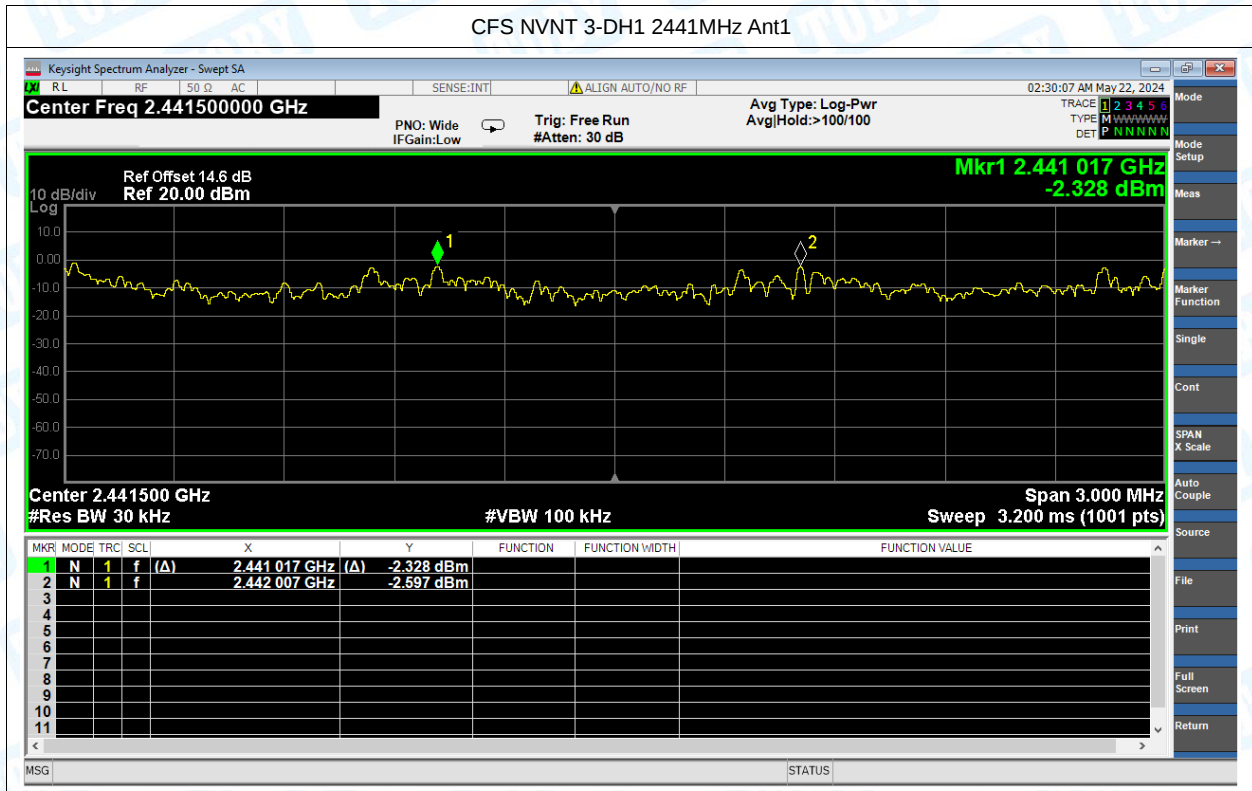
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



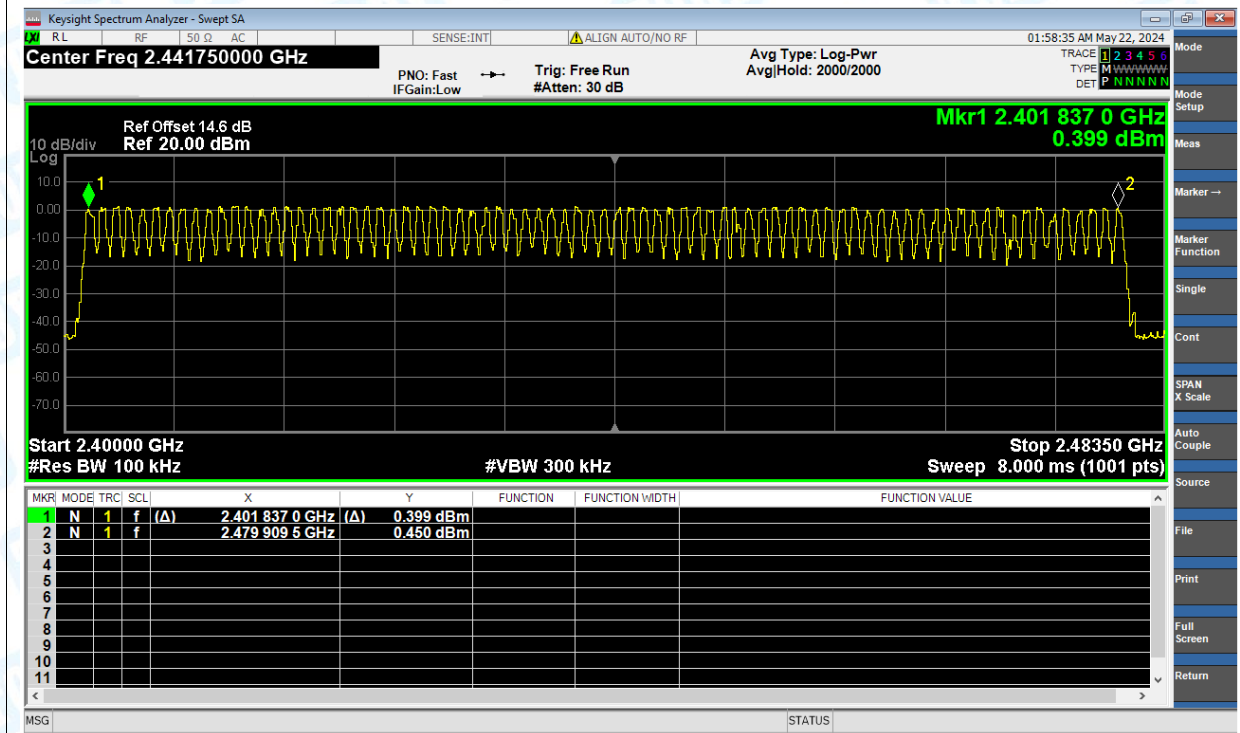


10. Number of Hopping Channel

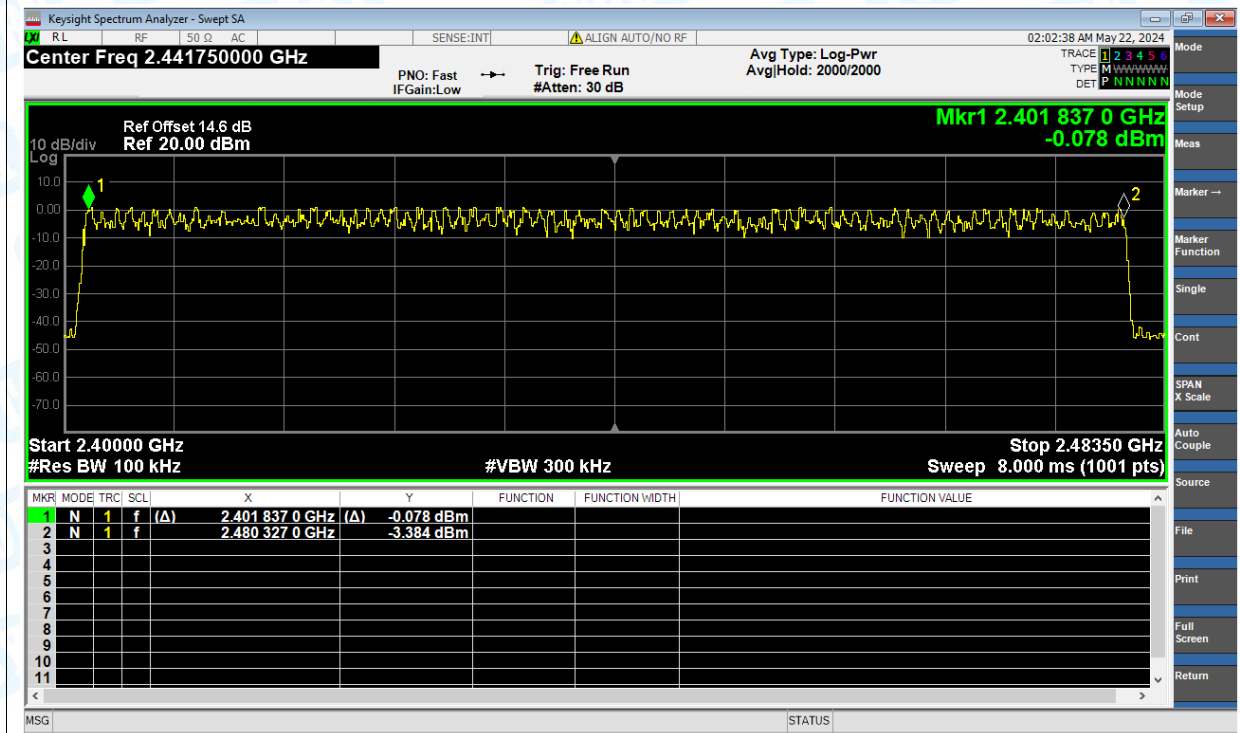
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

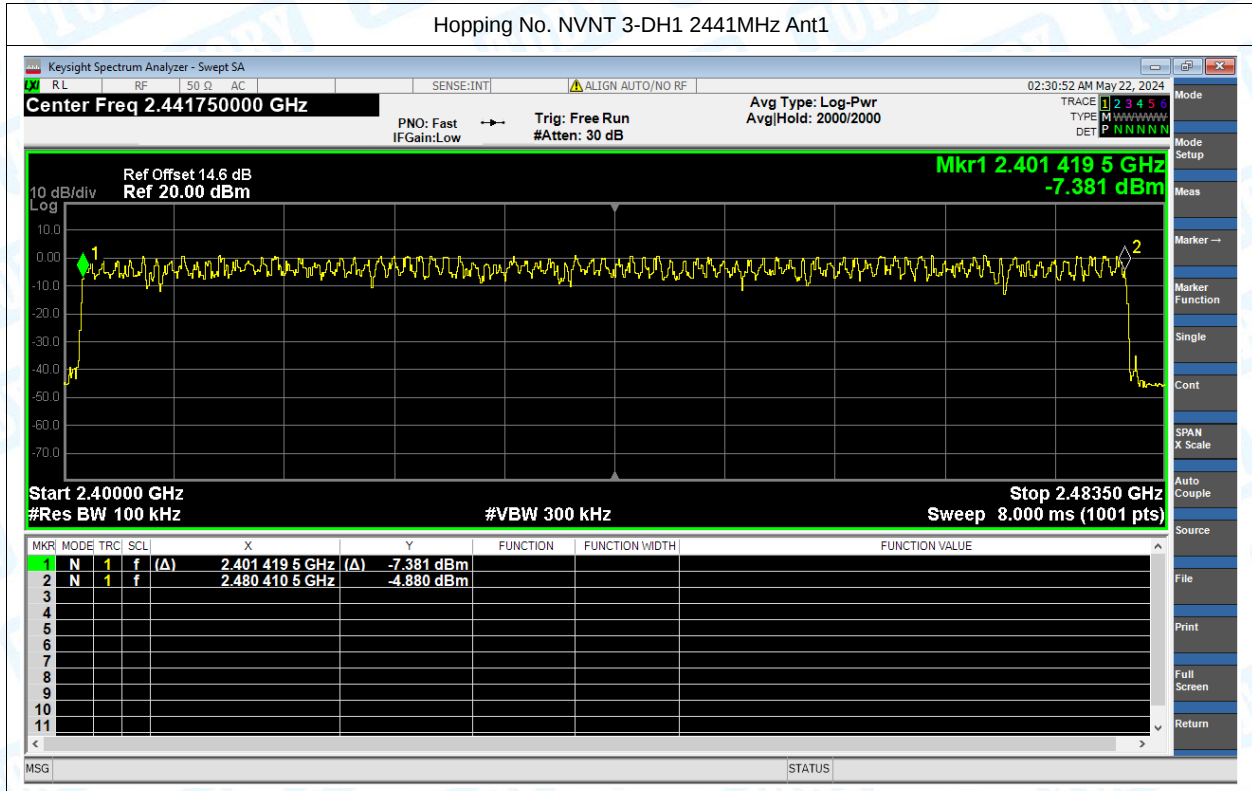
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



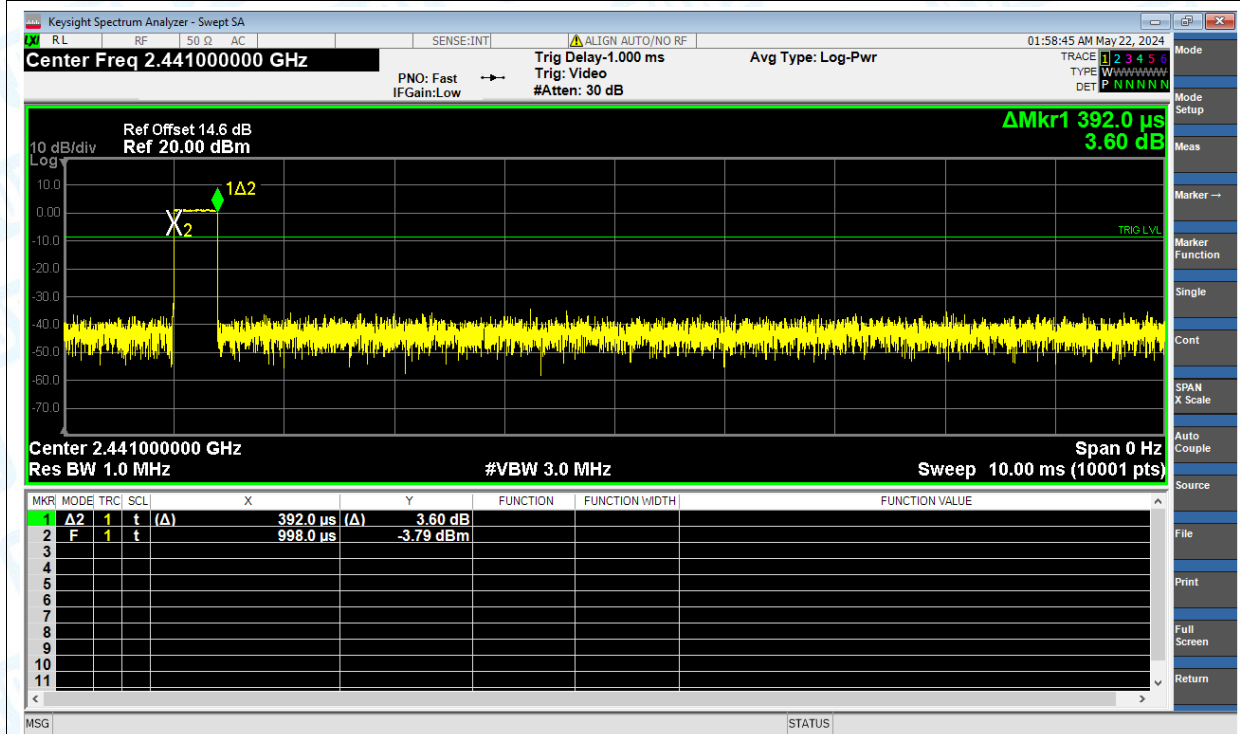


11. Dwell Time

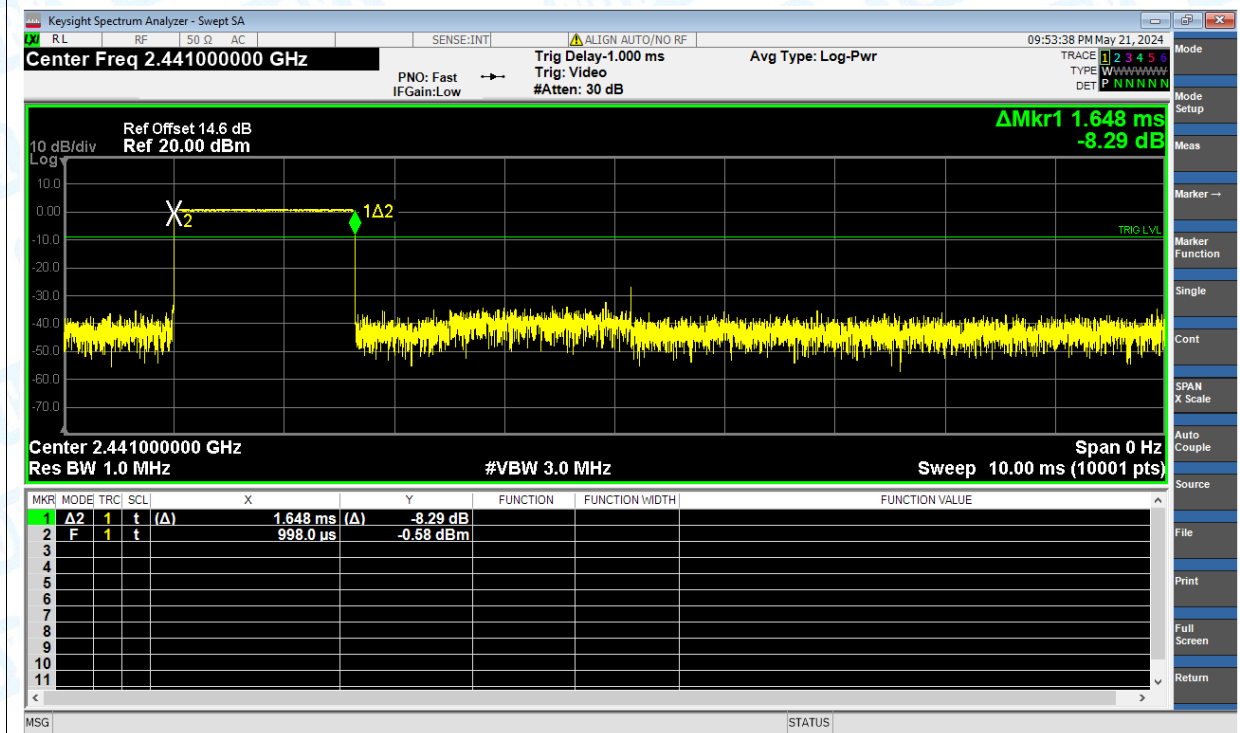
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	308.907	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.637	261.92	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	1.632	261.12	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

Test Graphs

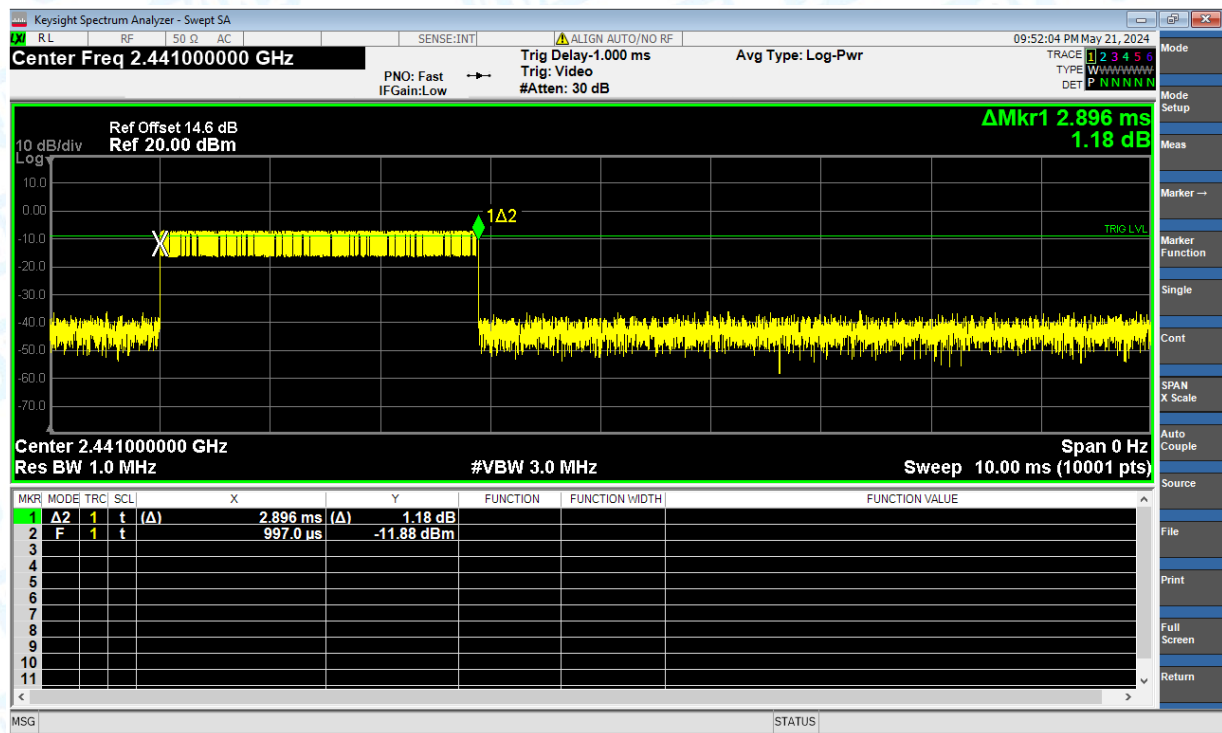
Dwell NVNT 1-DH1 2441MHz Ant1



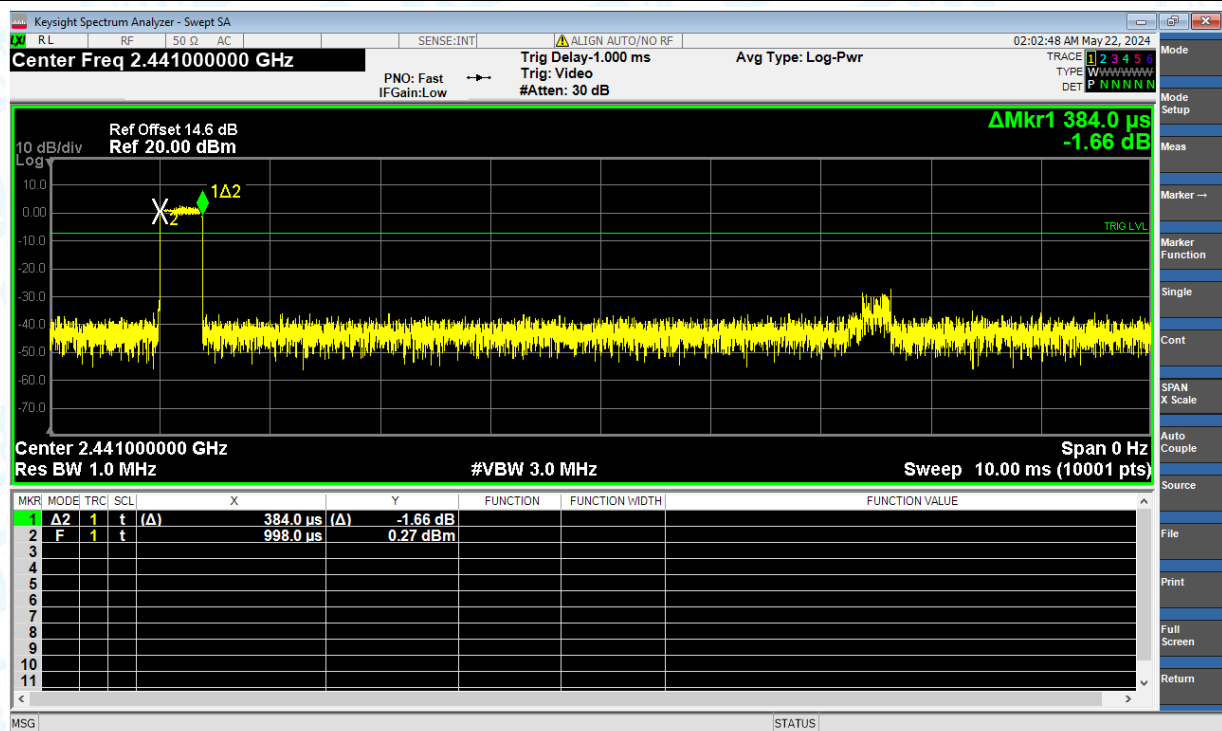
Dwell NVNT 1-DH3 2441MHz Ant1



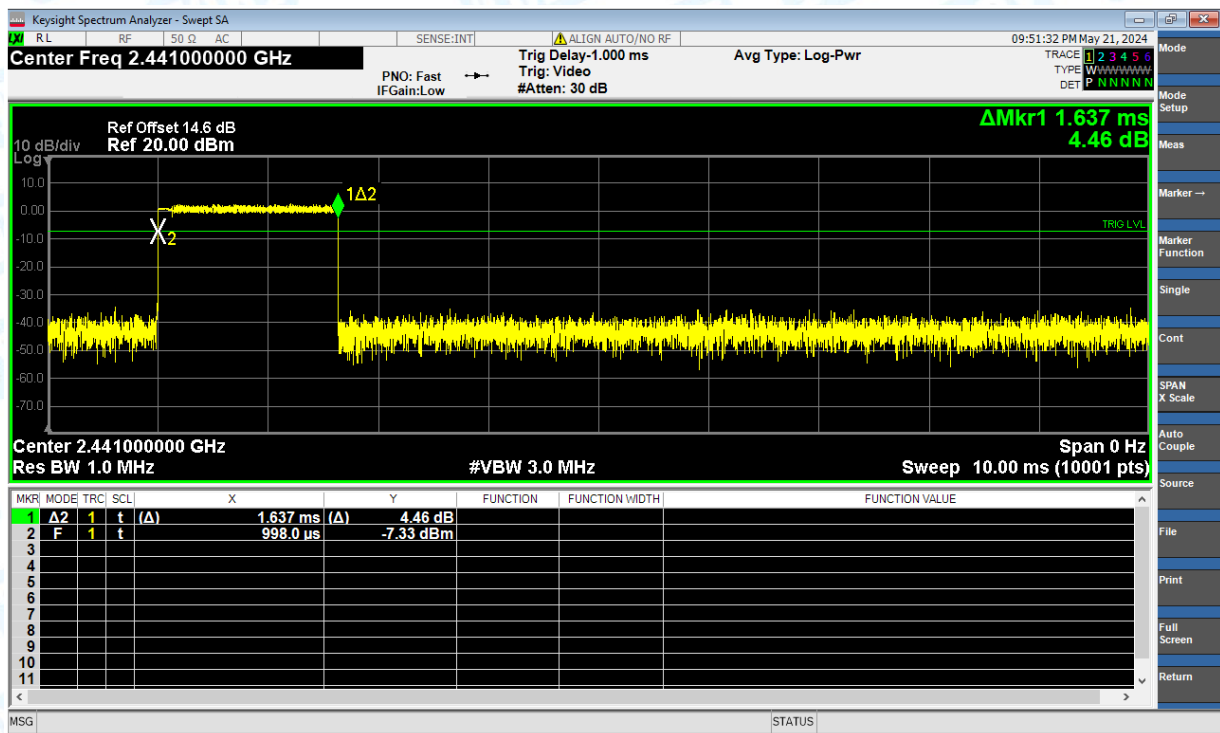
Dwell NVNT 1-DH5 2441MHz Ant1



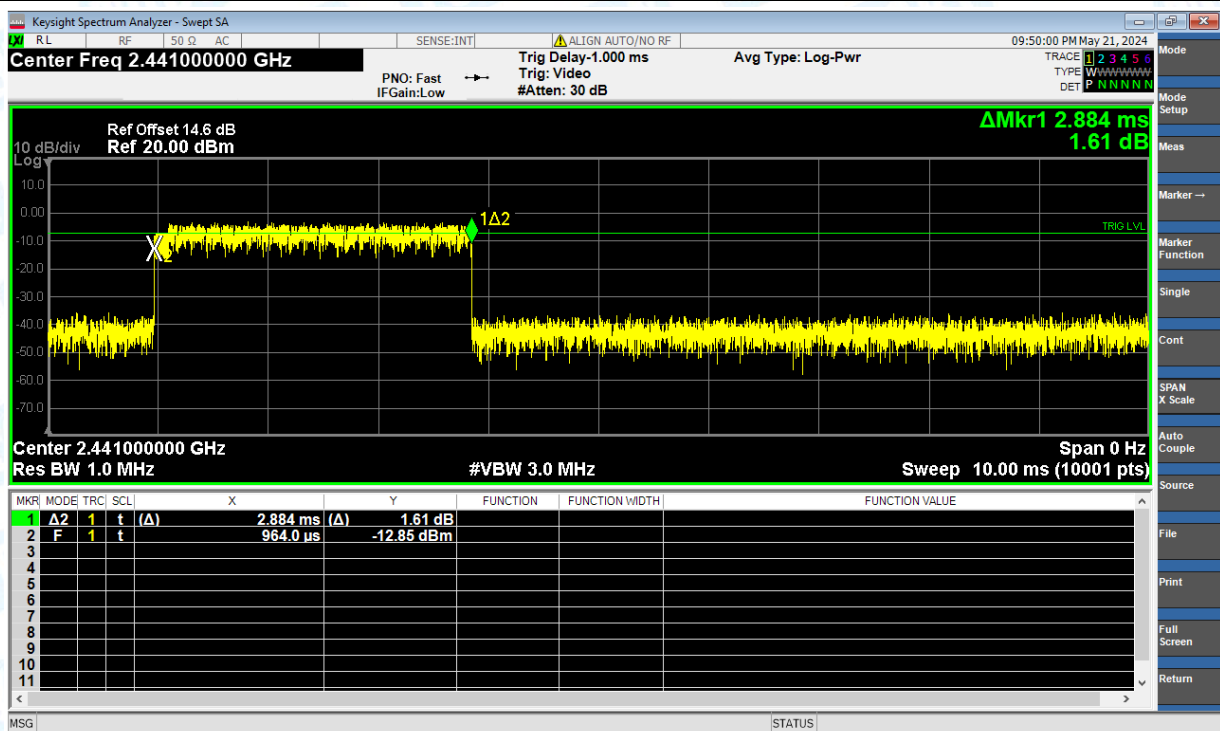
Dwell NVNT 2-DH1 2441MHz Ant1



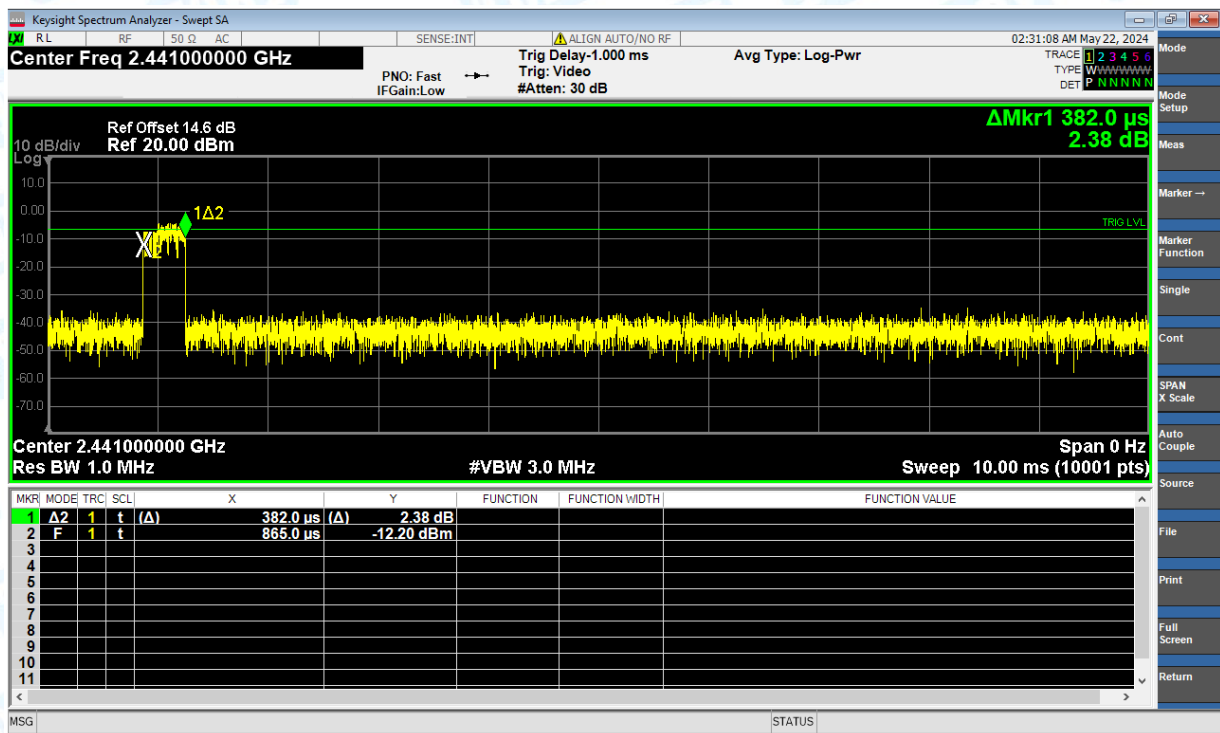
Dwell NVNT 2-DH3 2441MHz Ant1



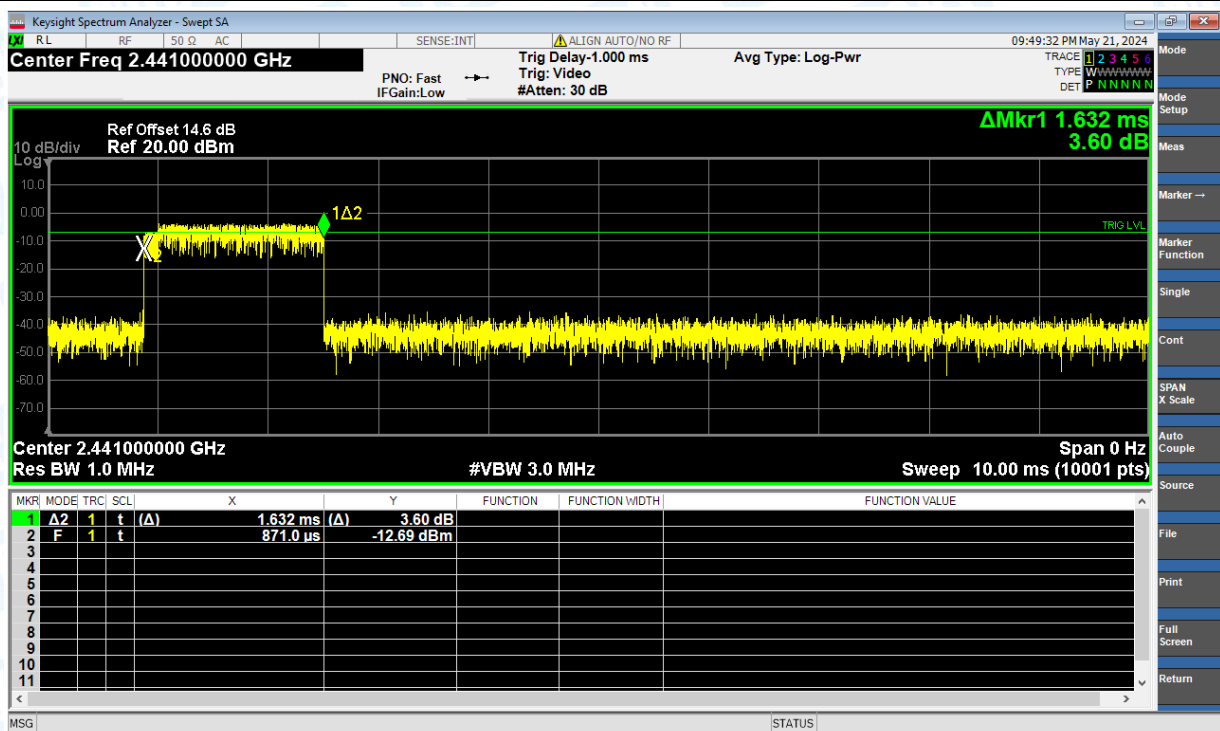
Dwell NVNT 2-DH5 2441MHz Ant1

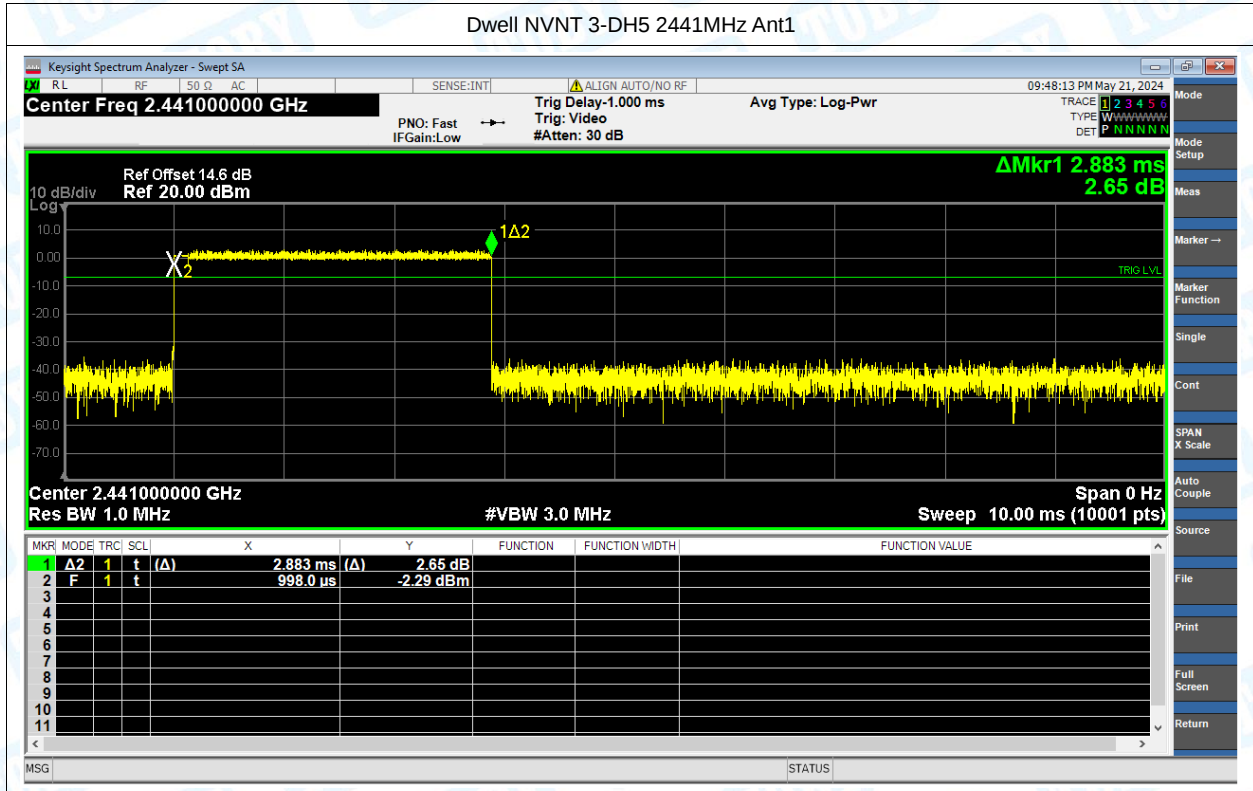


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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