

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

General Description of EUT	
Product Name:	MINISO DISNEY 100 CELEBRATION COLLECTION TWS EARPHONES
Test Model:	YB065
Sample ID:	RW-C-202305-0272-2-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0272-31 The report only show the worst case data.	

Contents

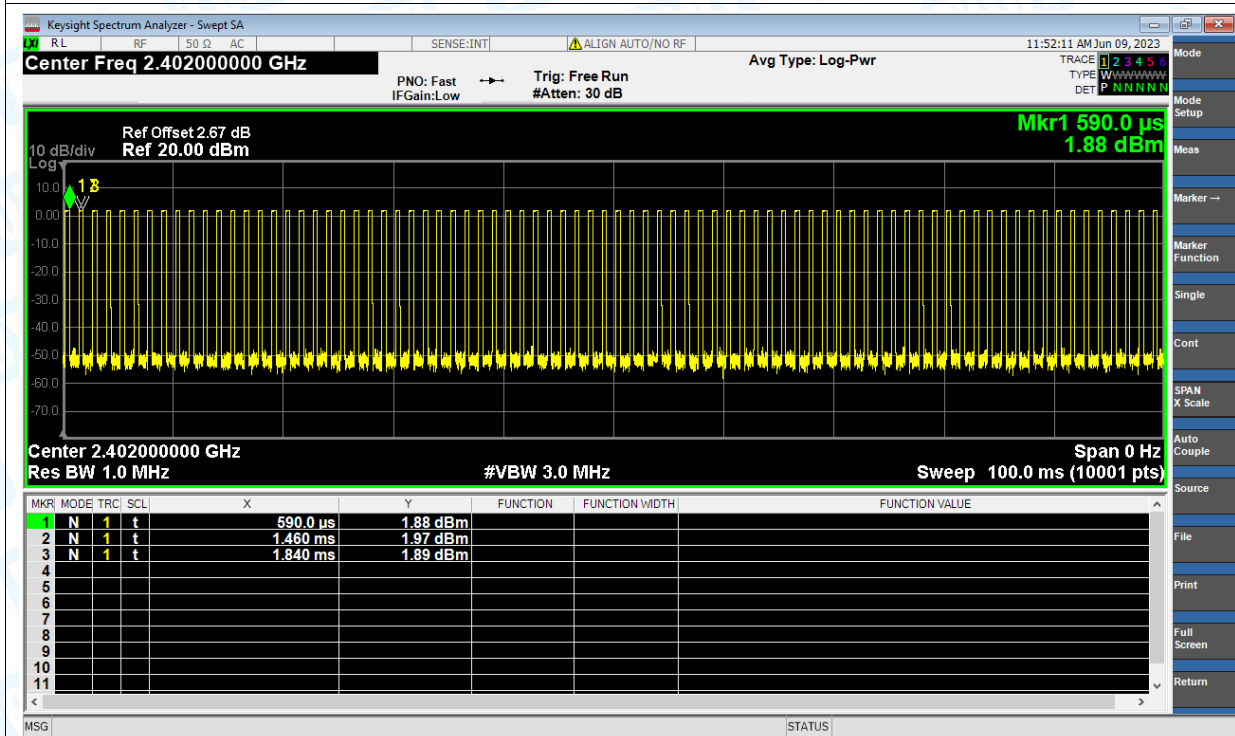
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1. Duty Cycle

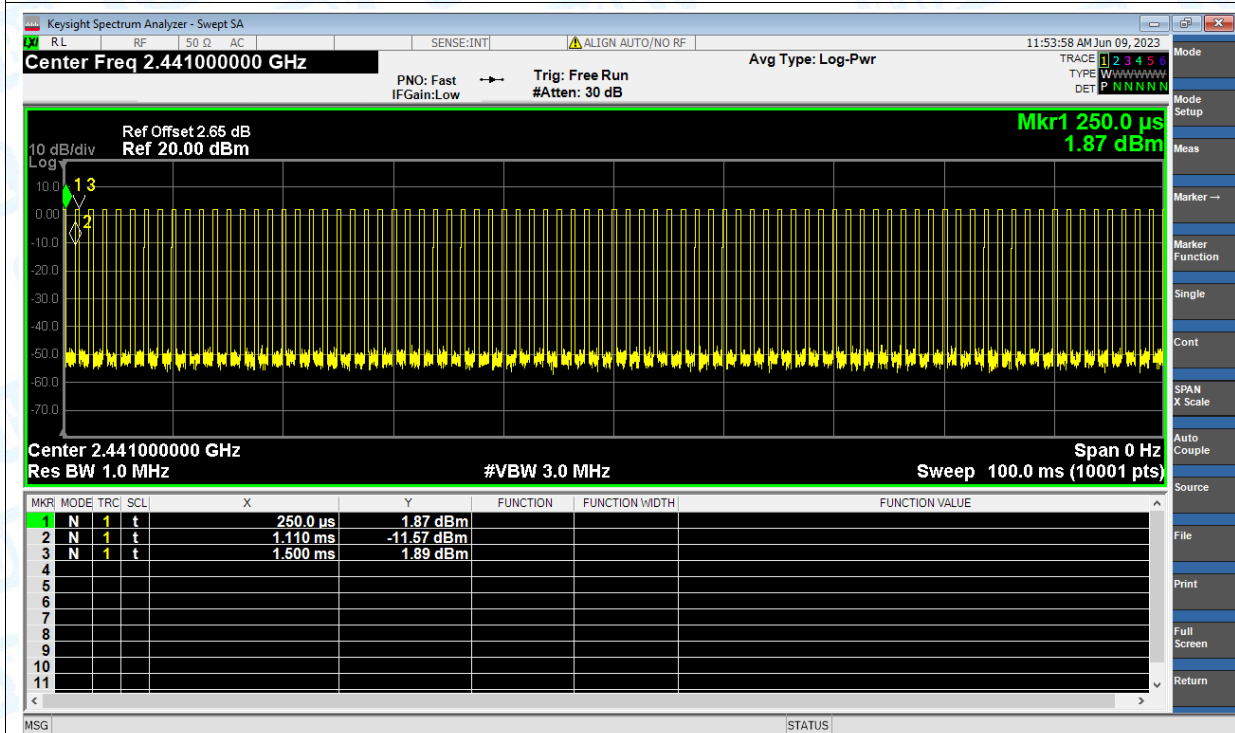
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

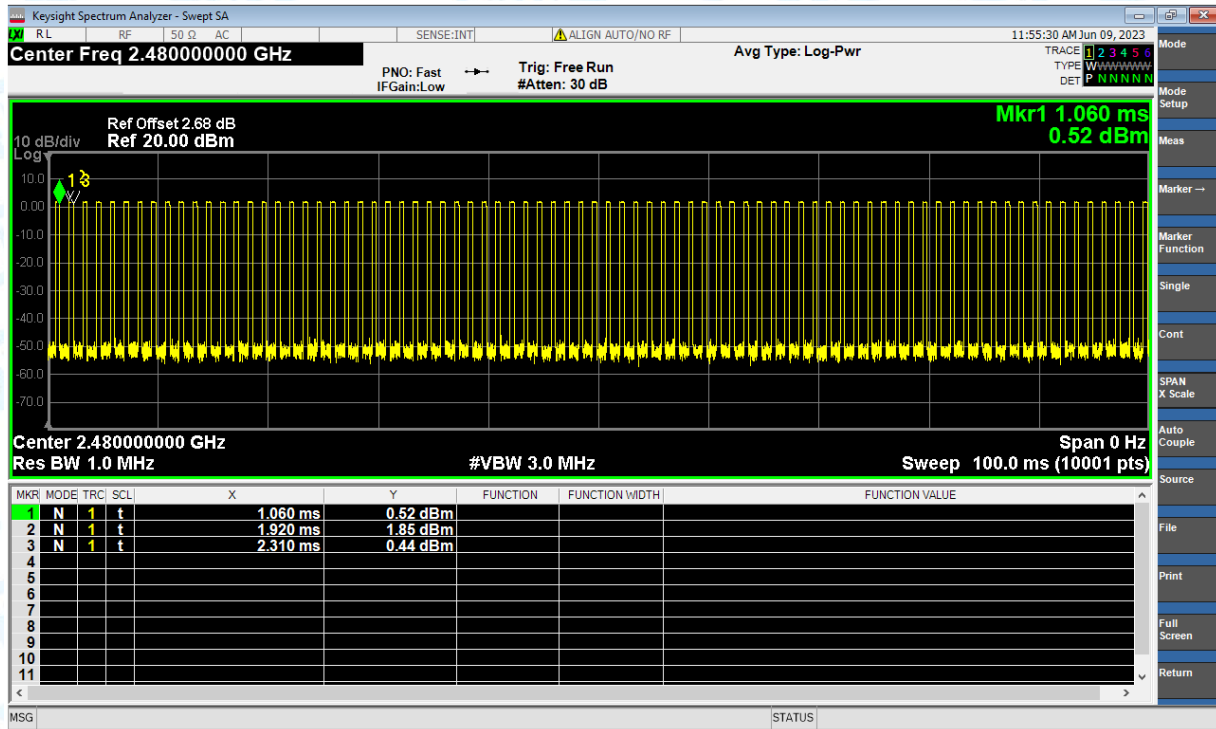
Duty Cycle NVNT 1-DH1 2402MHz Ant1



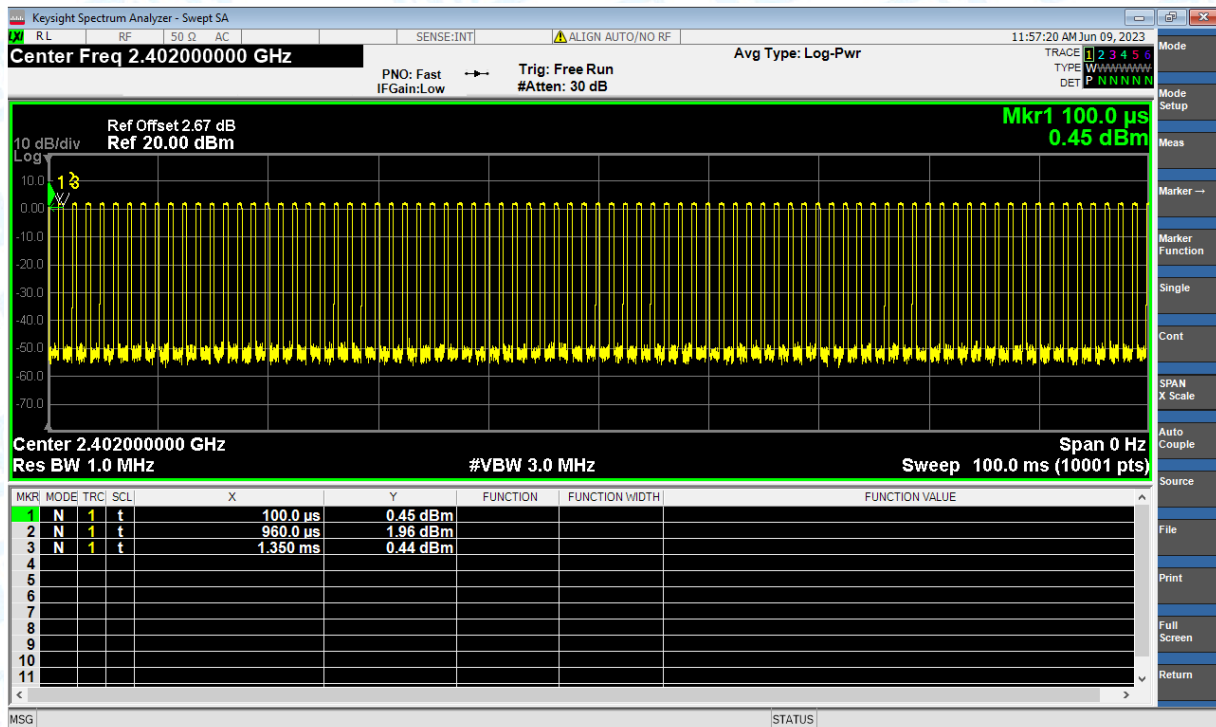
Duty Cycle NVNT 1-DH1 2441MHz Ant1



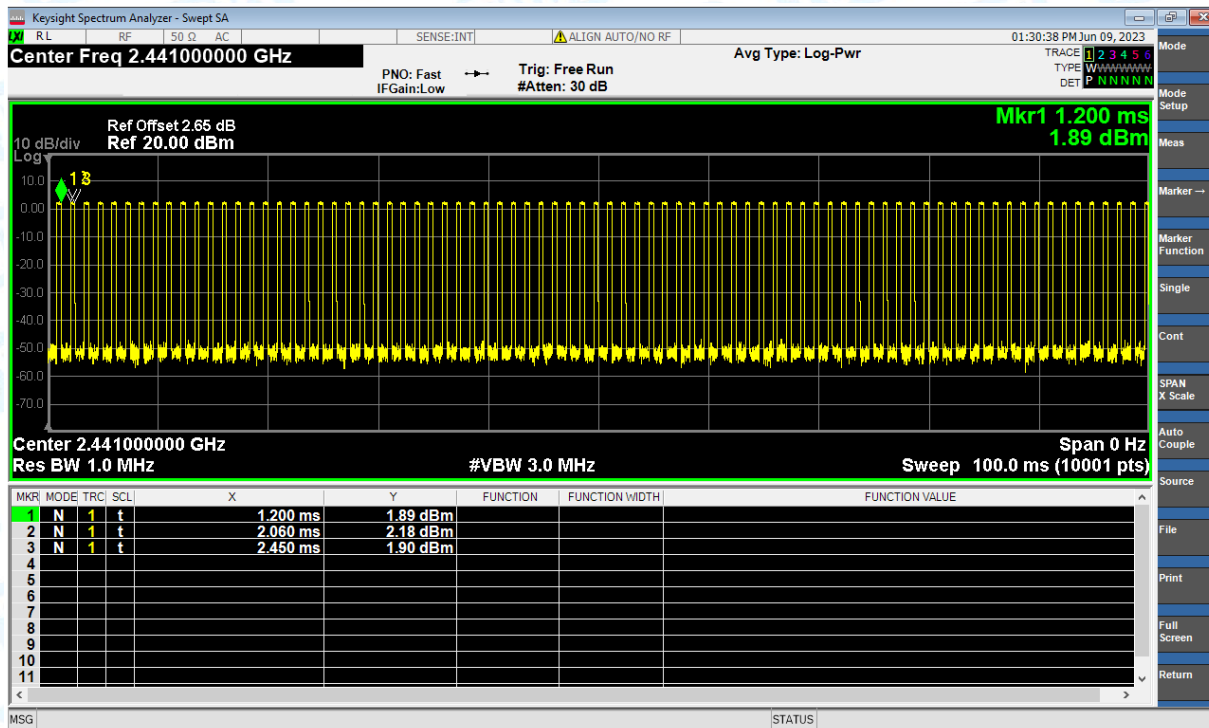
Duty Cycle NVNT 1-DH1 2480MHz Ant1



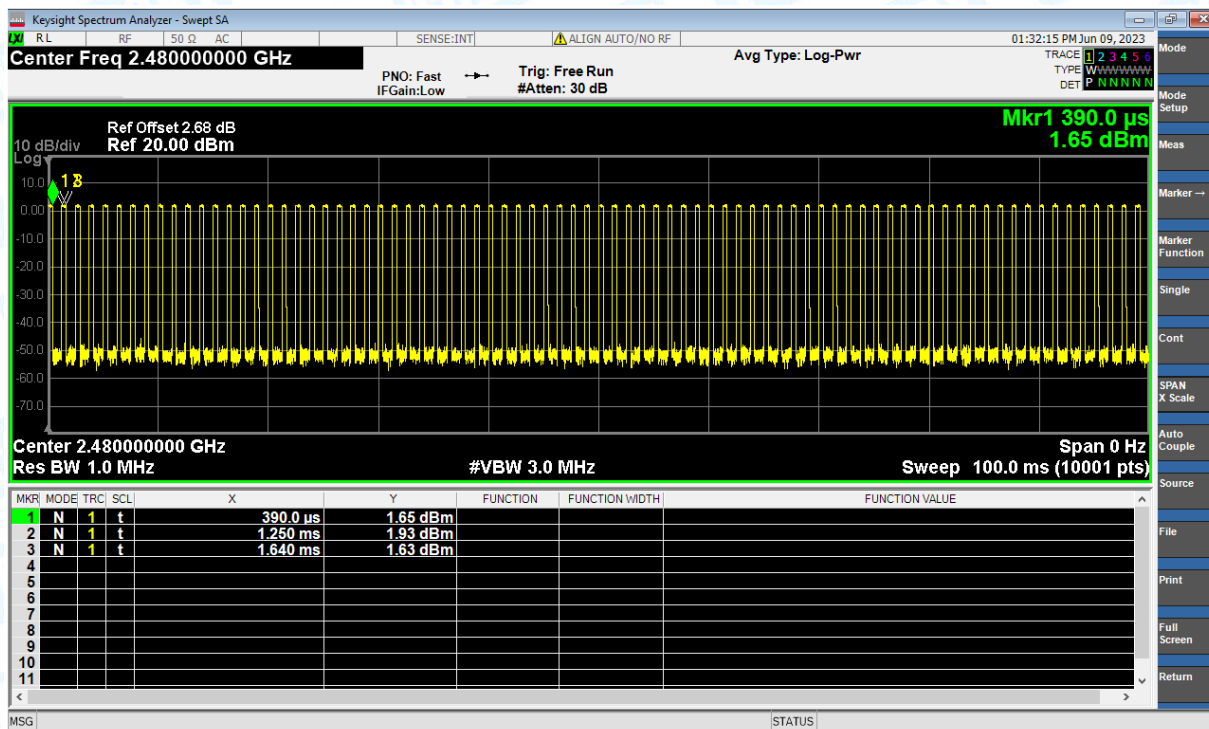
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1

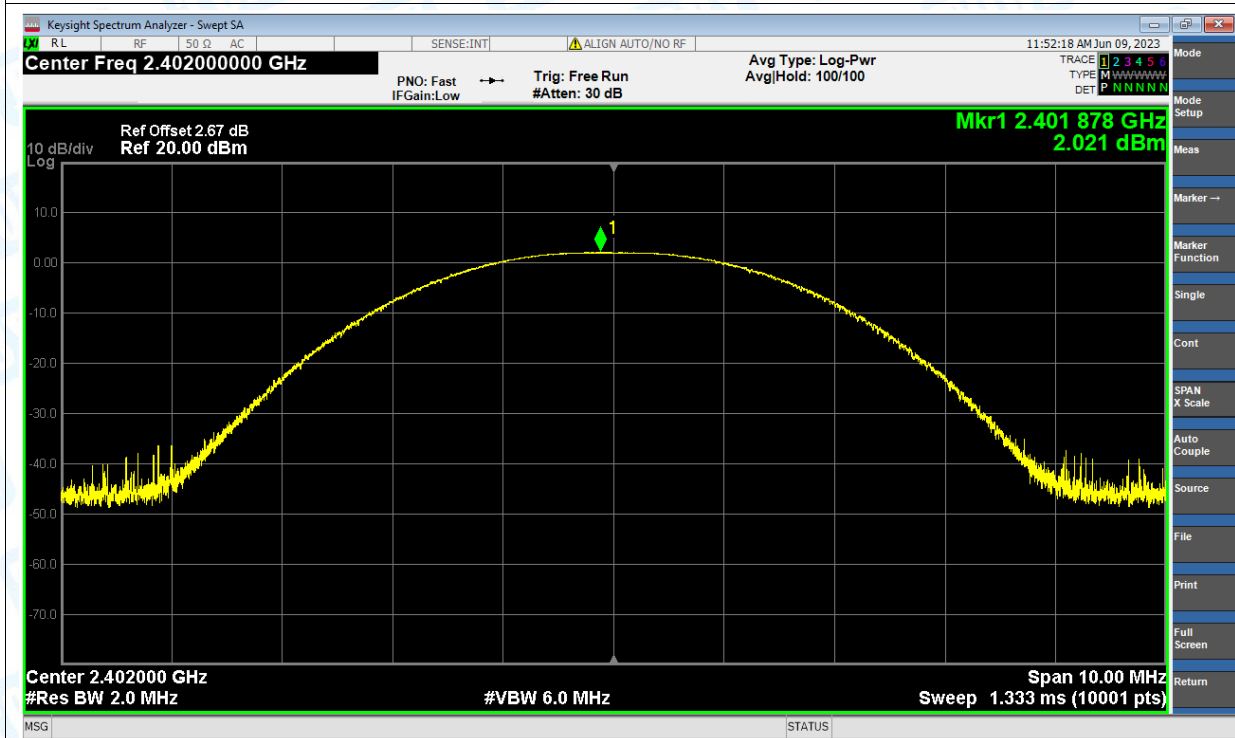


2. Maximum Conducted Output Power

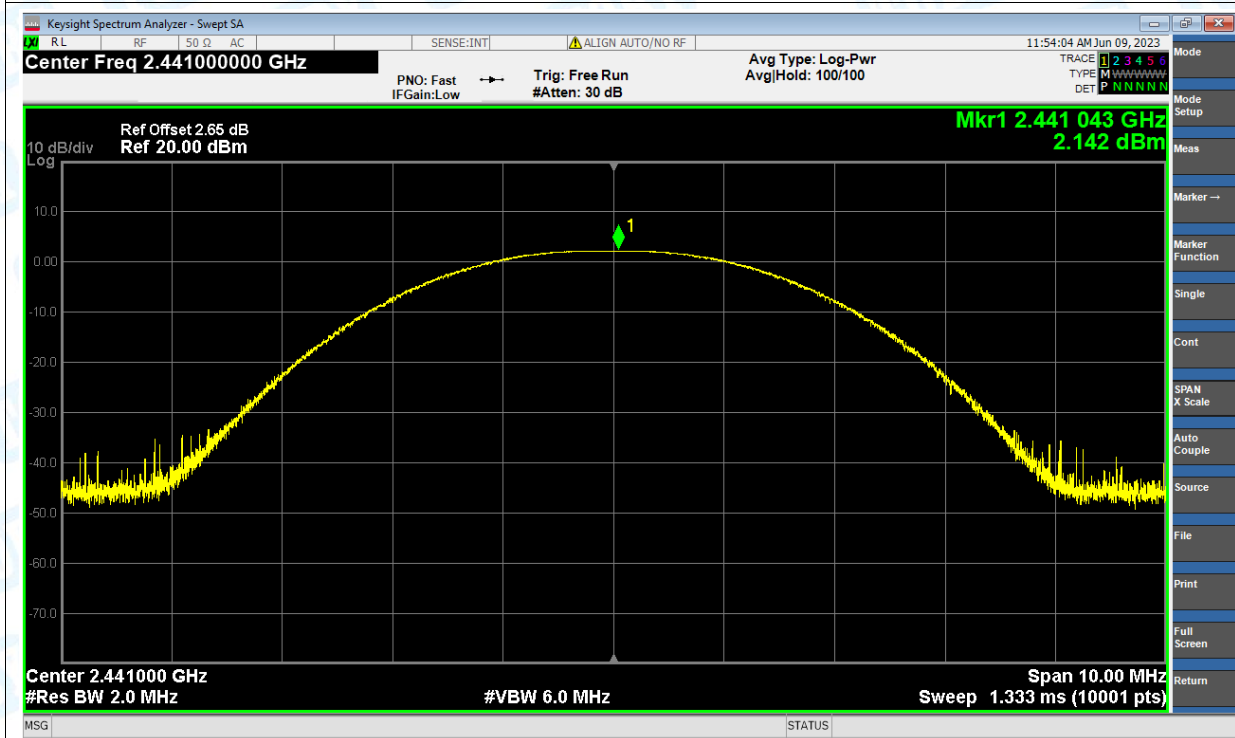
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.021	5.17	7.191	21	Pass
NVNT	1-DH1	2441	Ant1	2.142	5.06	7.202	21	Pass
NVNT	1-DH1	2480	Ant1	1.904	5.06	6.964	21	Pass
NVNT	1-DH3	2441	Ant1	1.939	0	1.939	21	Pass
NVNT	1-DH5	2441	Ant1	1.916	0	1.916	21	Pass
NVNT	2-DH1	2402	Ant1	2.836	5.06	7.896	21	Pass
NVNT	2-DH1	2441	Ant1	3.041	5.06	8.101	21	Pass
NVNT	2-DH1	2480	Ant1	2.825	5.06	7.885	21	Pass
NVNT	2-DH3	2441	Ant1	2.821	0	2.821	21	Pass
NVNT	2-DH5	2441	Ant1	2.771	0	2.771	21	Pass

Test Graphs

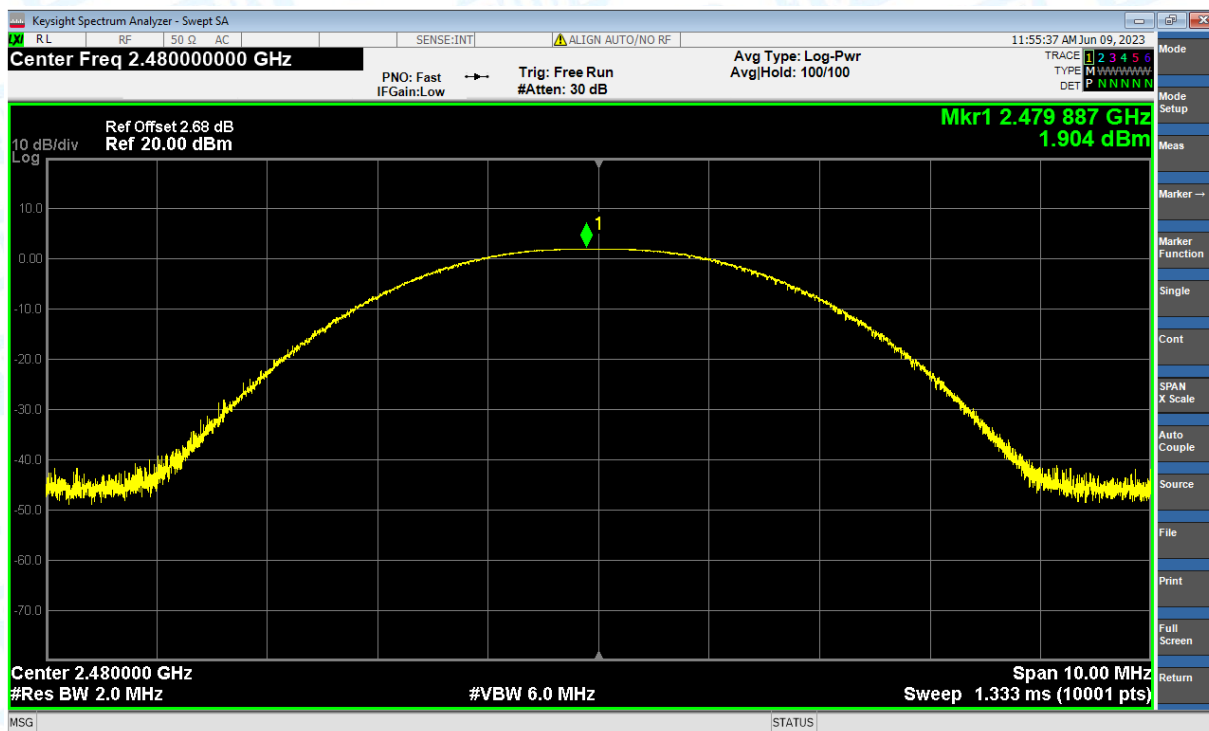
Power NVNT 1-DH1 2402MHz Ant1



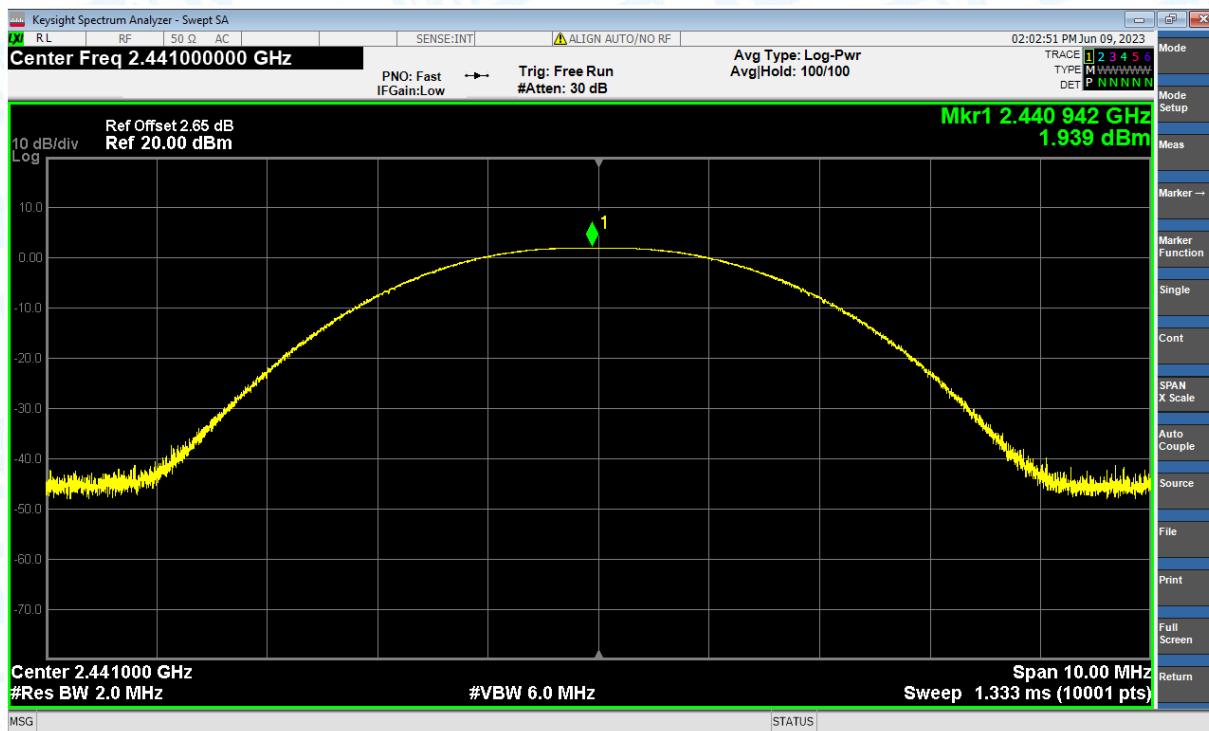
Power NVNT 1-DH1 2441MHz Ant1



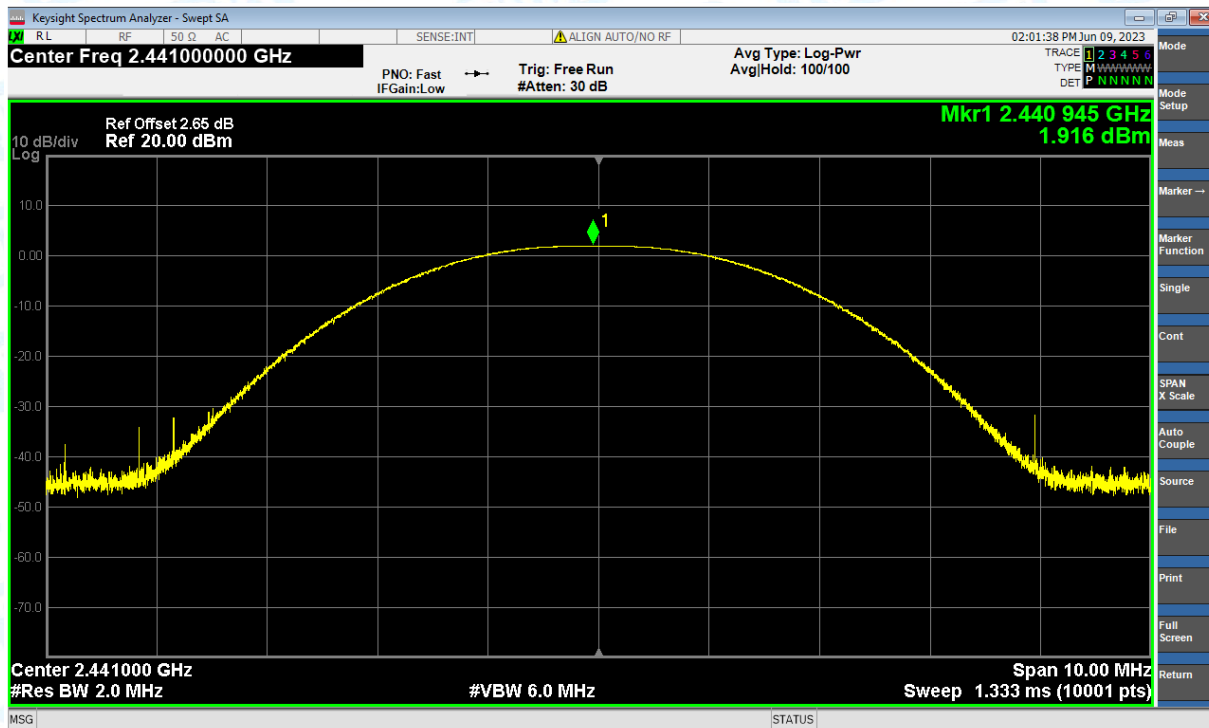
Power NVNT 1-DH1 2480MHz Ant1



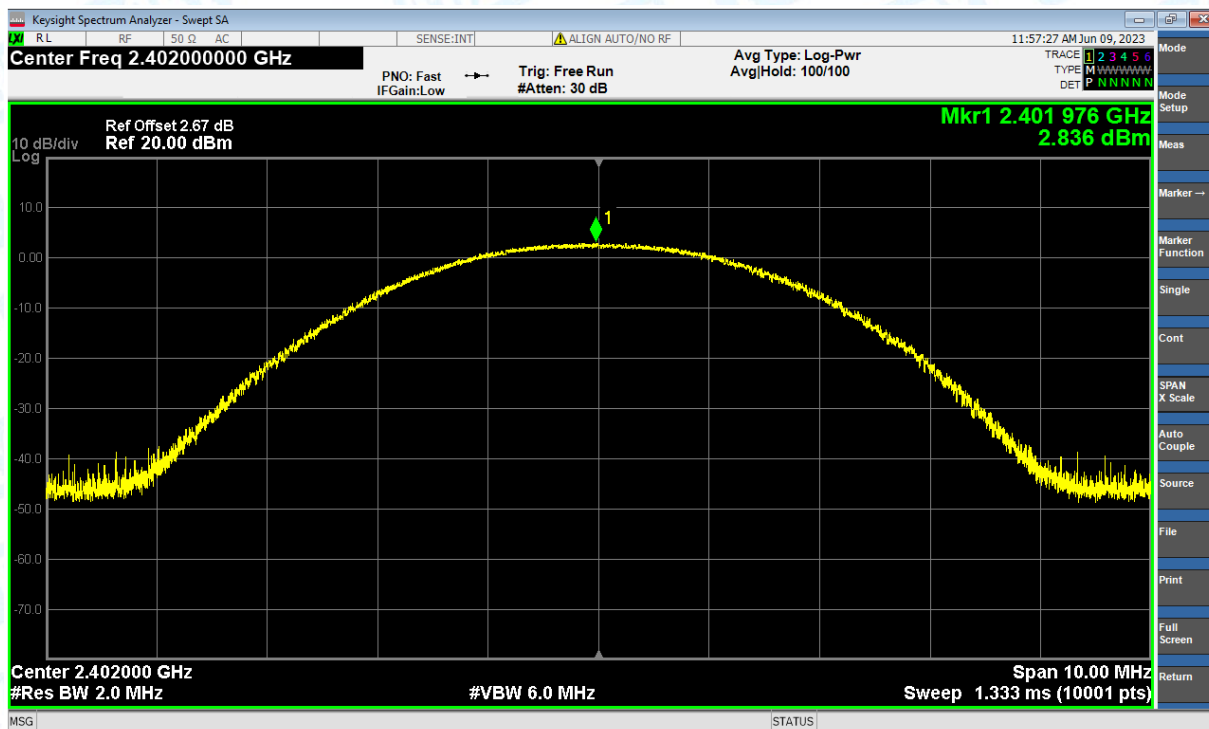
Power NVNT 1-DH3 2441MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



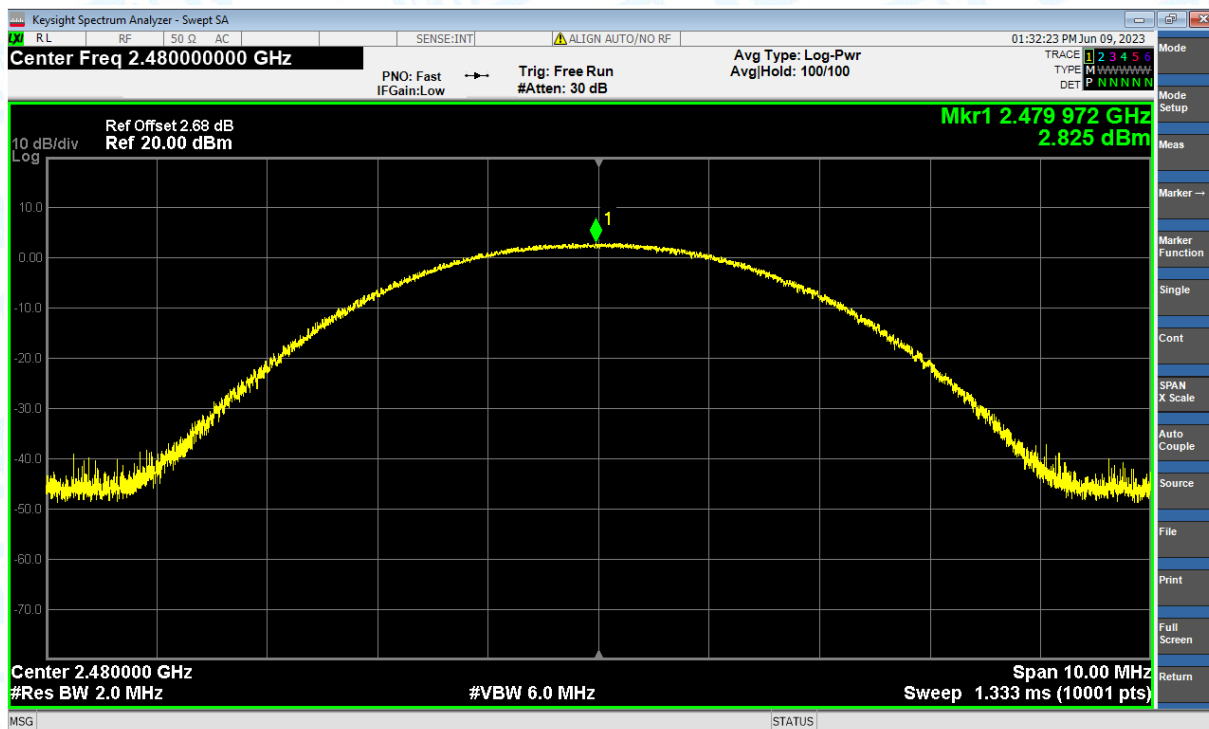
Power NVNT 2-DH1 2402MHz Ant1



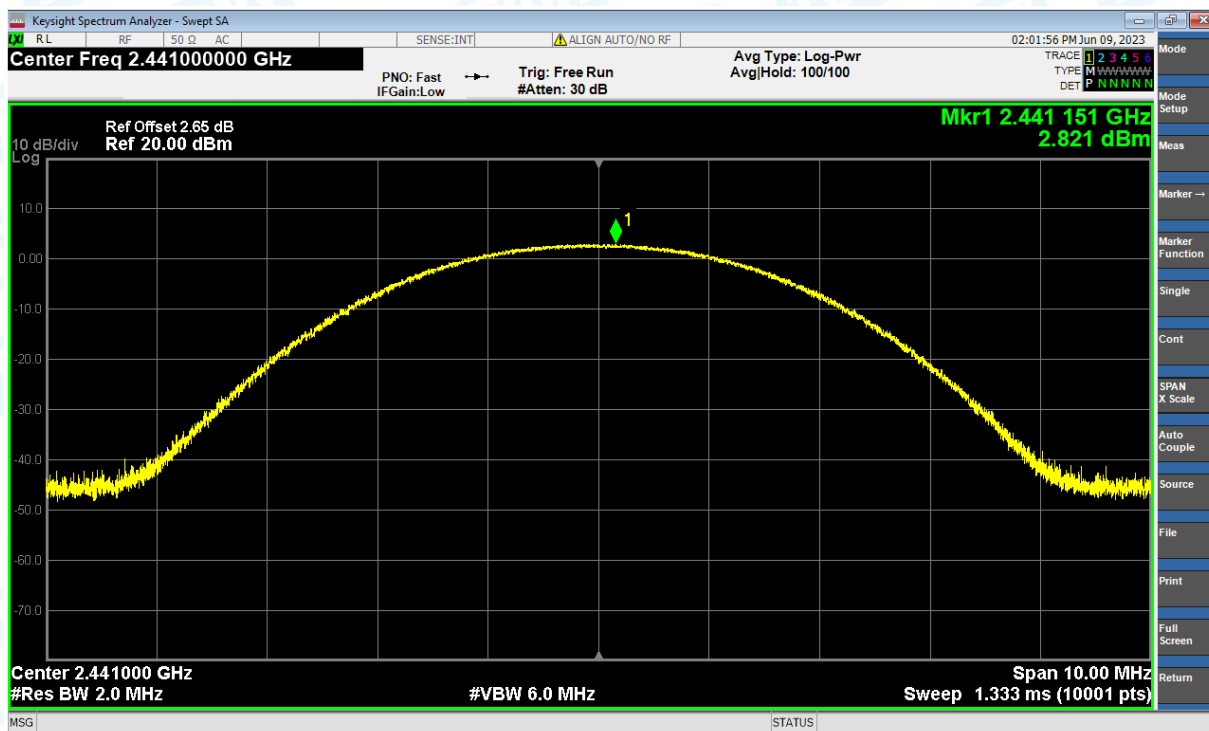
Power NVNT 2-DH1 2441MHz Ant1



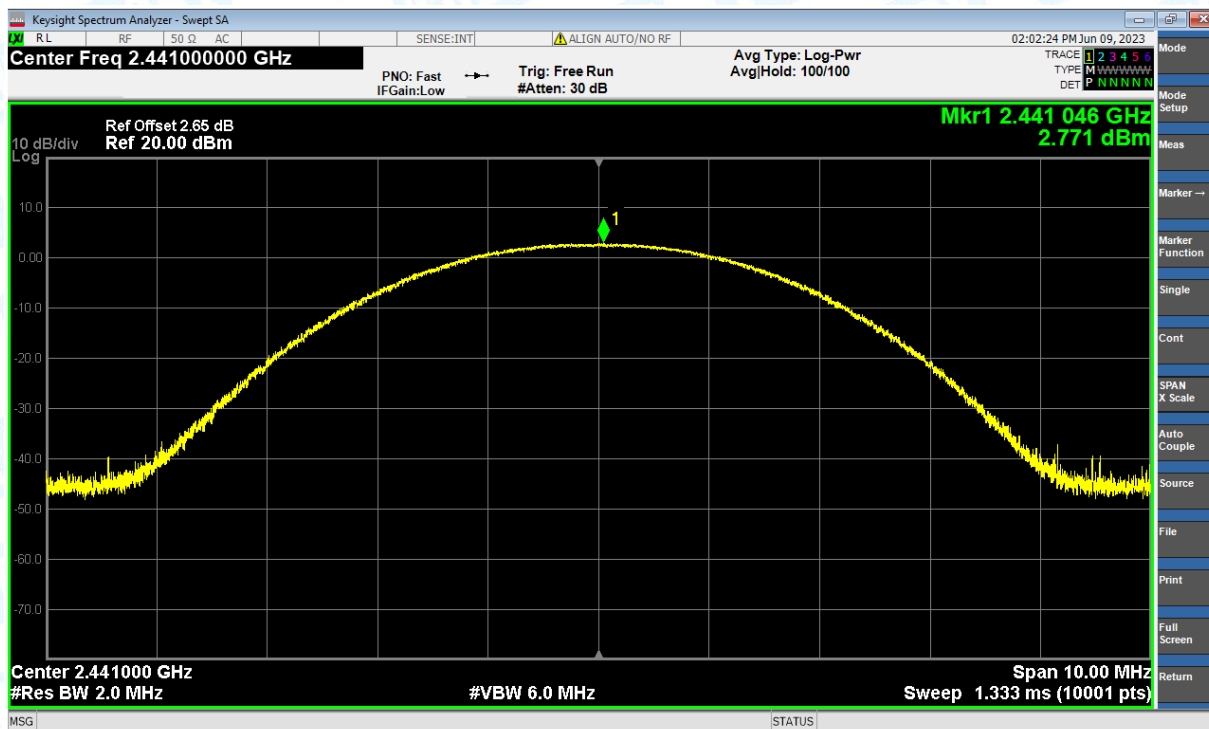
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1

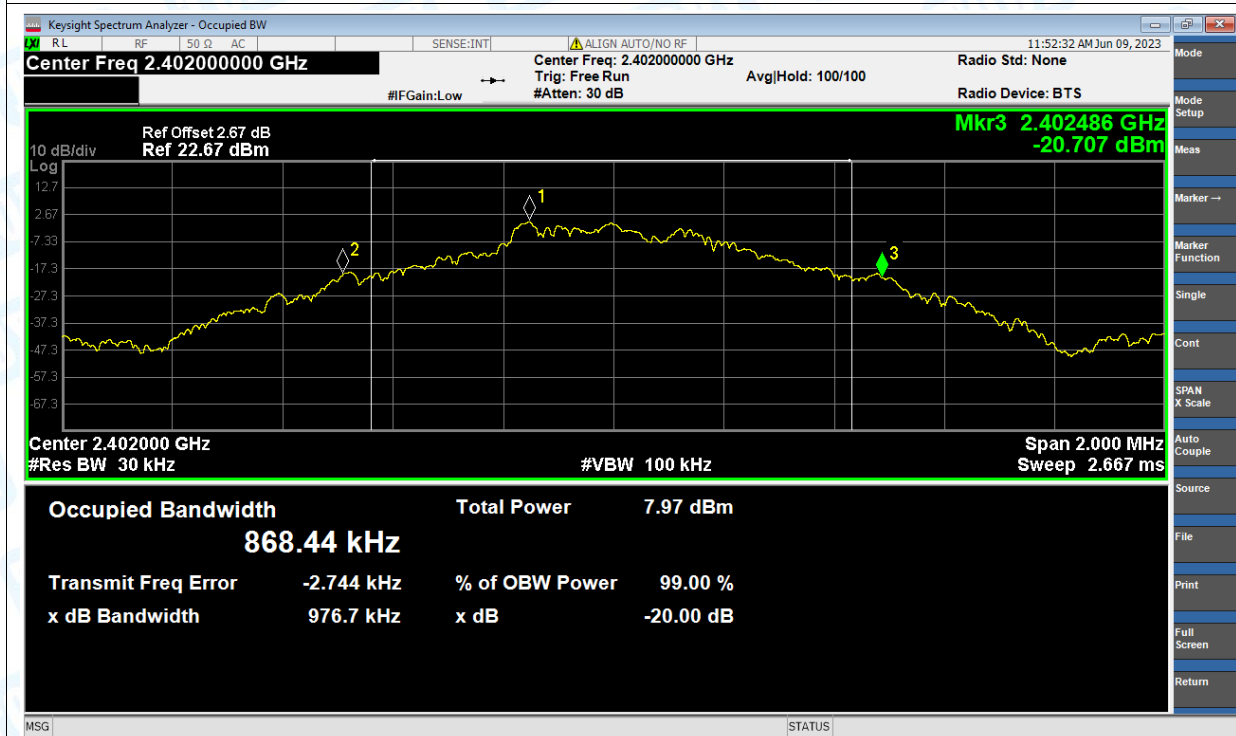


3. -20dB Bandwidth

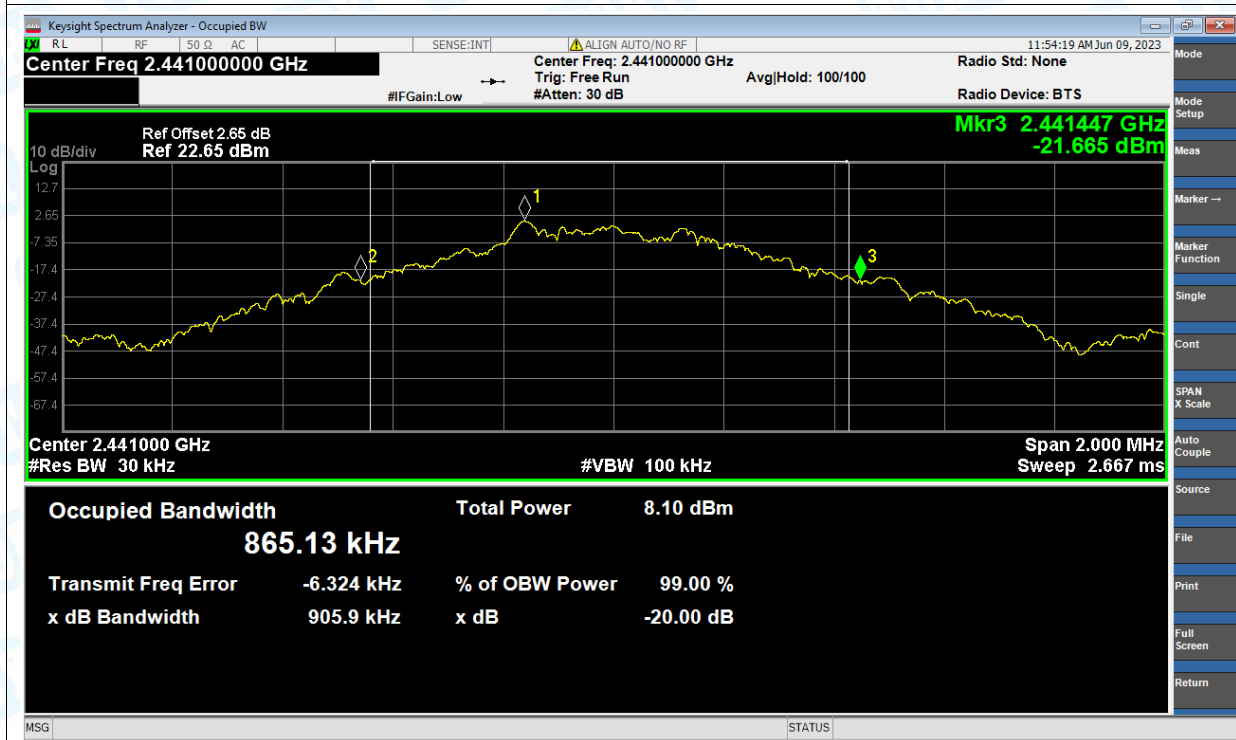
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.98	0	Pass
NVNT	1-DH1	2441	Ant1	0.91	0	Pass
NVNT	1-DH1	2480	Ant1	0.92	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.23	0	Pass
NVNT	2-DH1	2480	Ant1	1.28	0	Pass

Test Graphs

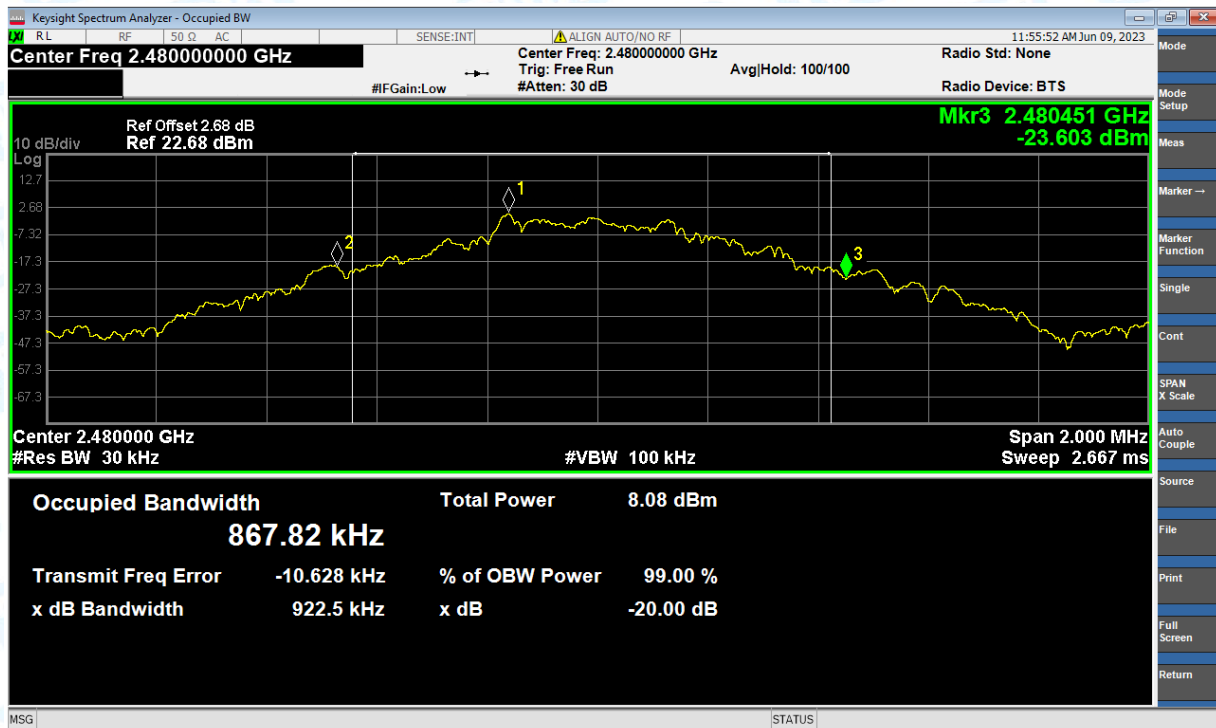
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



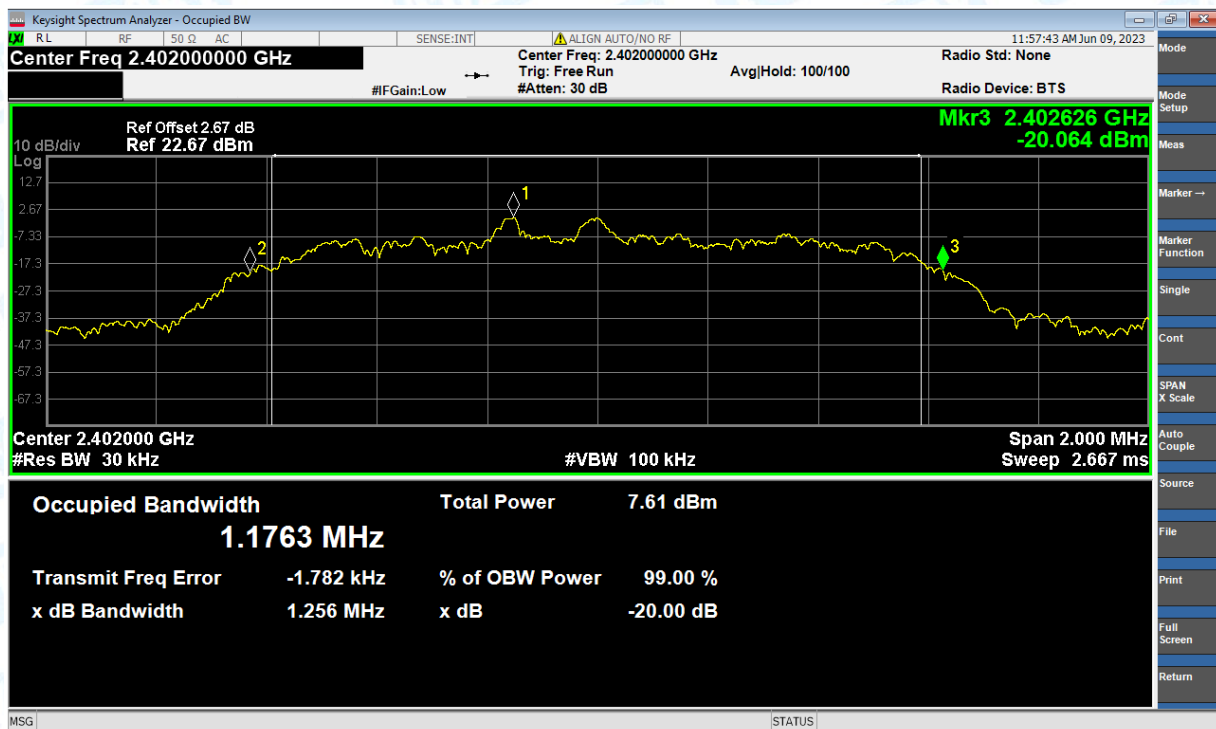
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



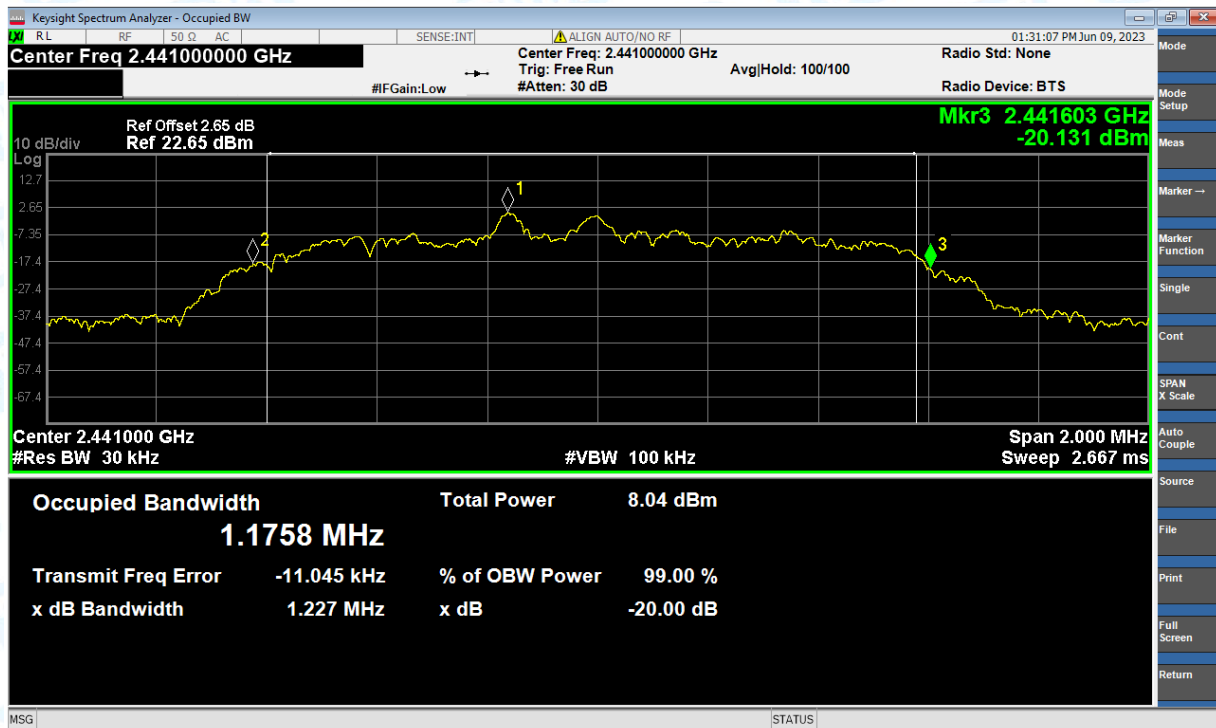
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



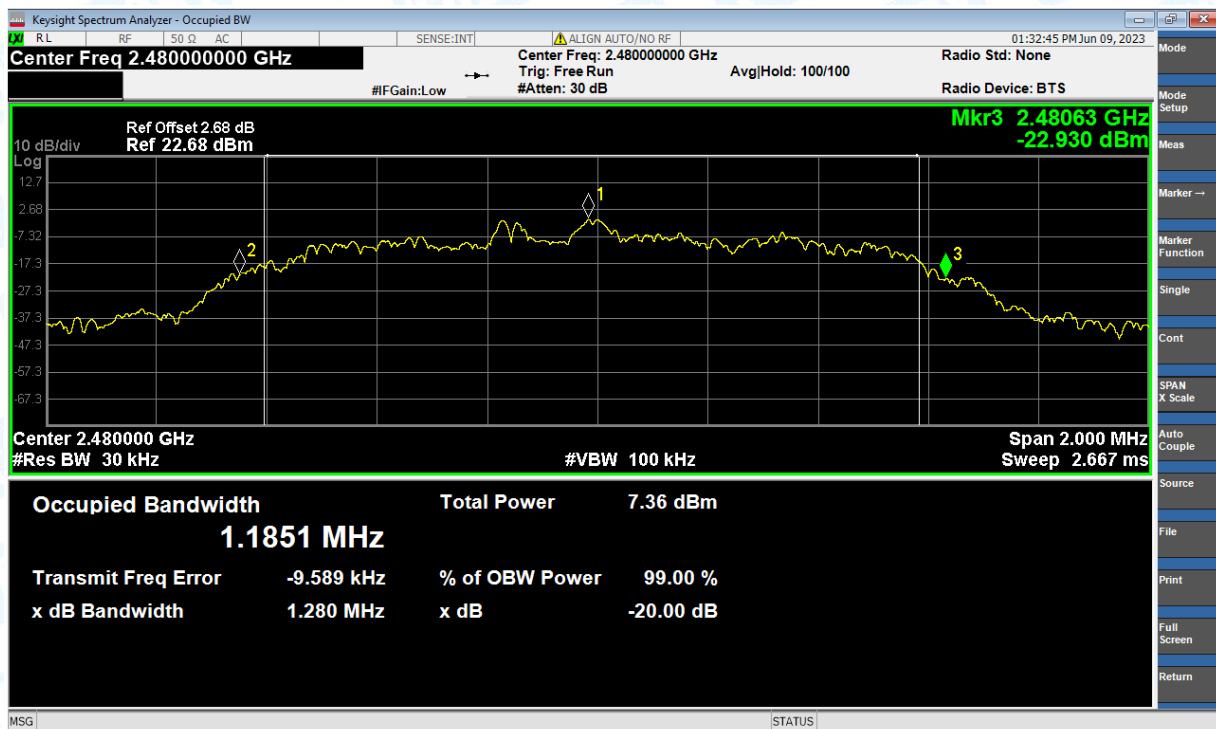
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

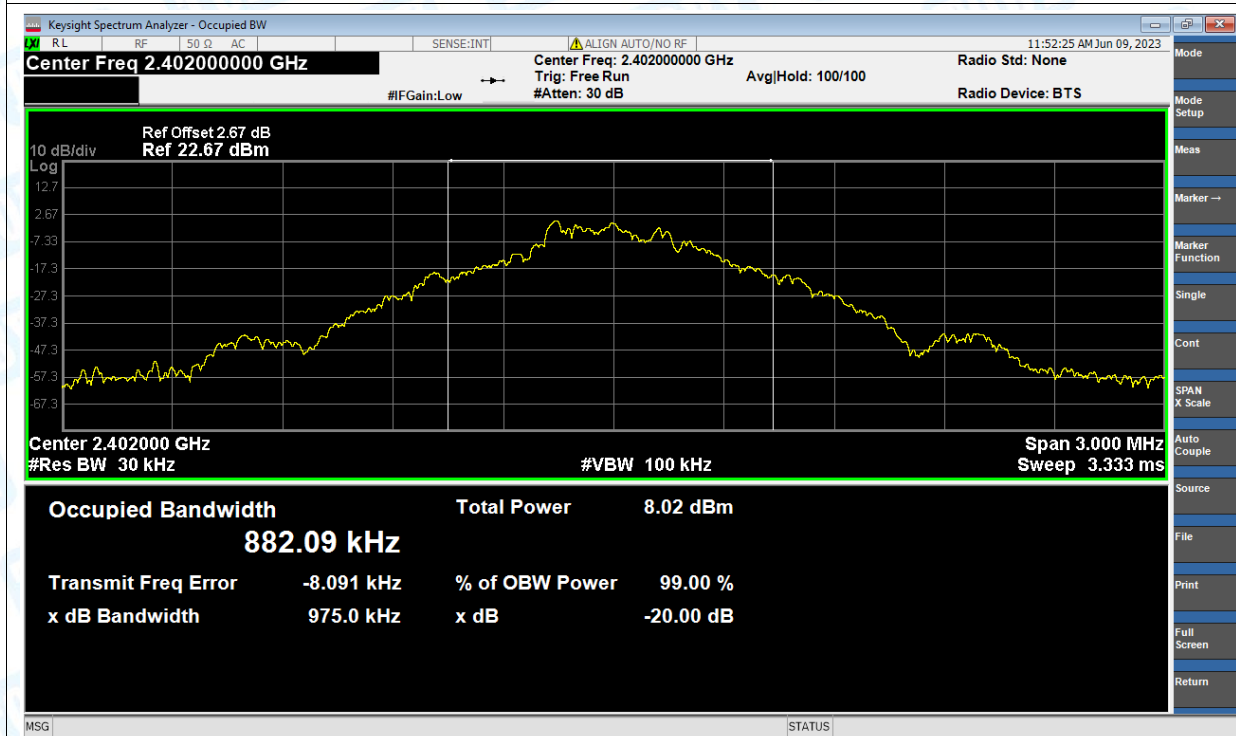


4. Occupied Channel Bandwidth

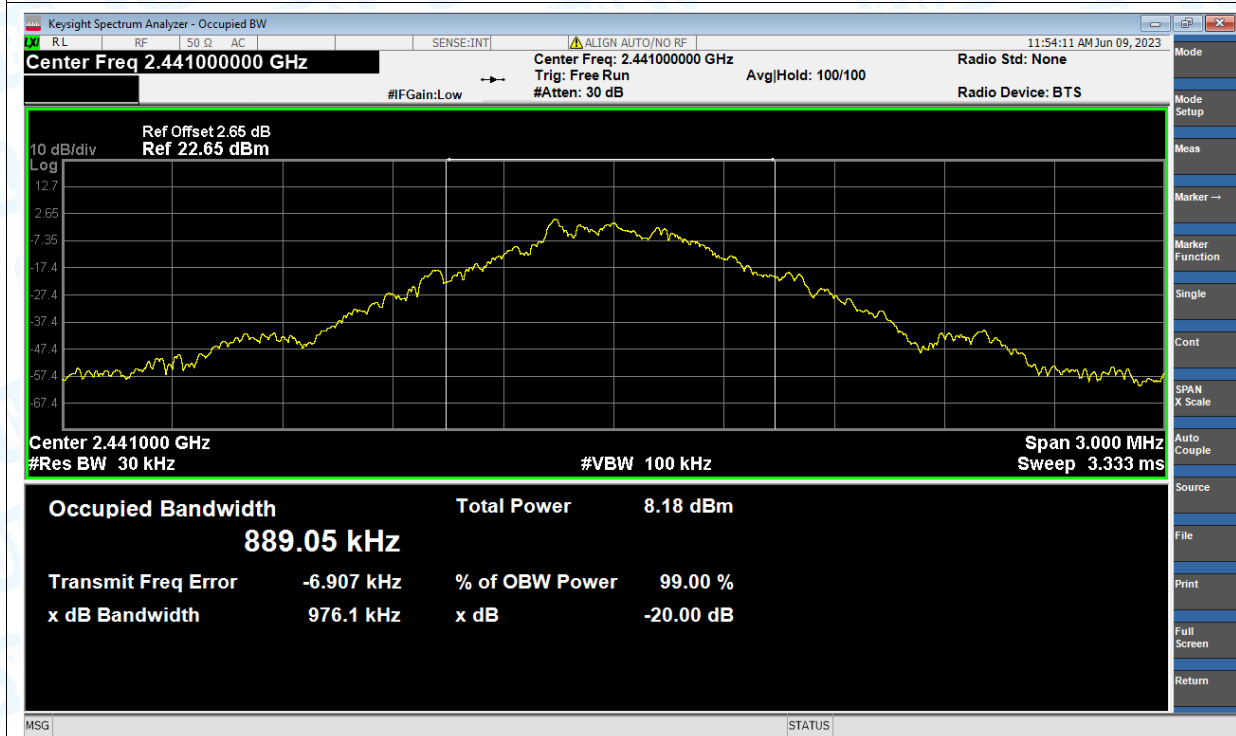
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.882
NVNT	1-DH1	2441	Ant1	0.889
NVNT	1-DH1	2480	Ant1	0.862
NVNT	2-DH1	2402	Ant1	1.175
NVNT	2-DH1	2441	Ant1	1.18
NVNT	2-DH1	2480	Ant1	1.176

Test Graphs

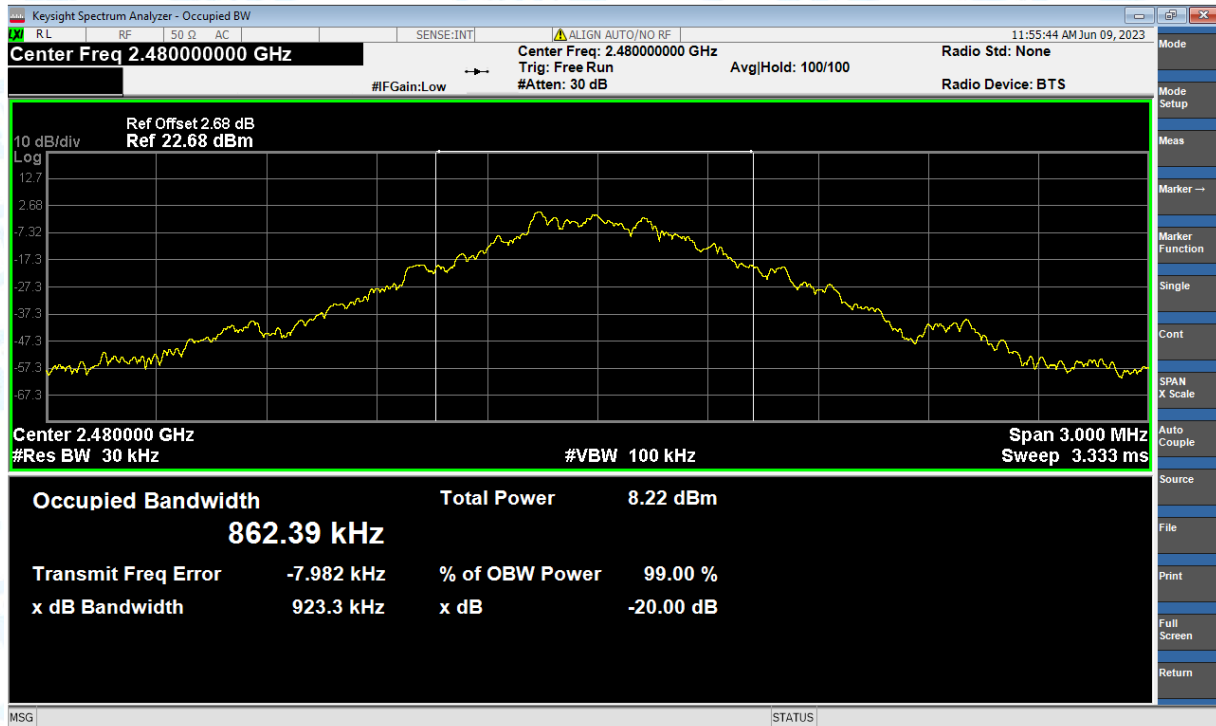
OBW NVNT 1-DH1 2402MHz Ant1



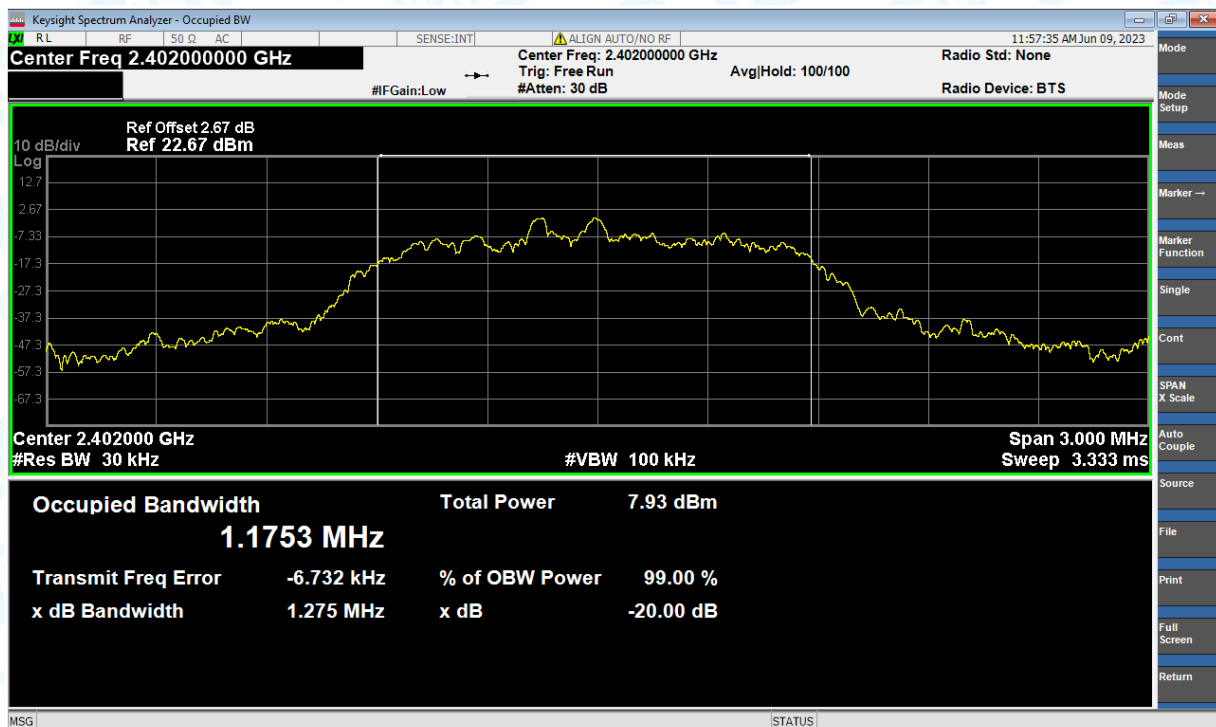
OBW NVNT 1-DH1 2441MHz Ant1



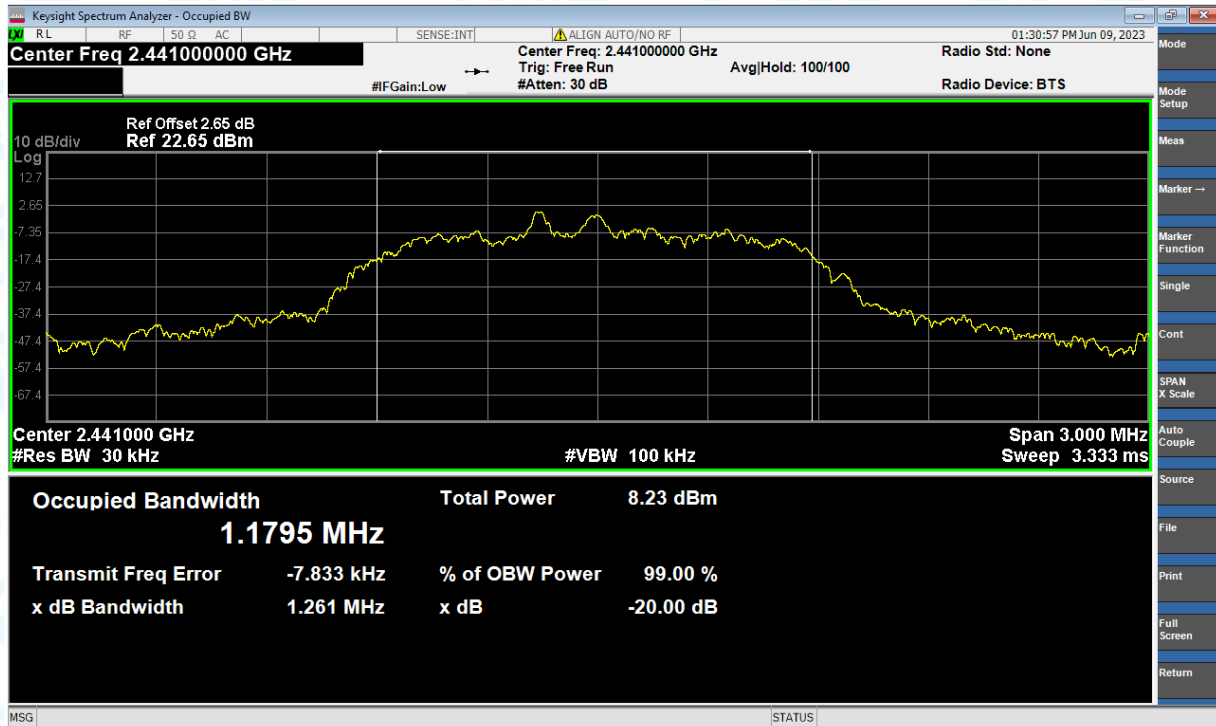
OBW NVNT 1-DH1 2480MHz Ant1



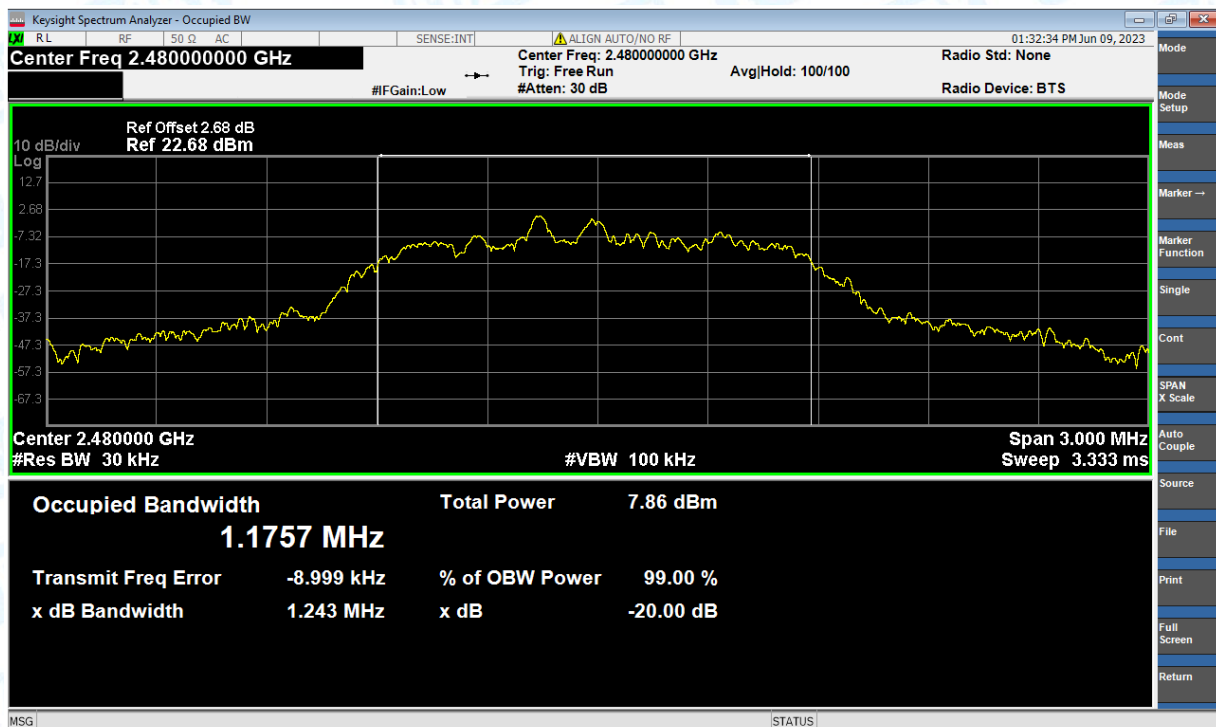
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

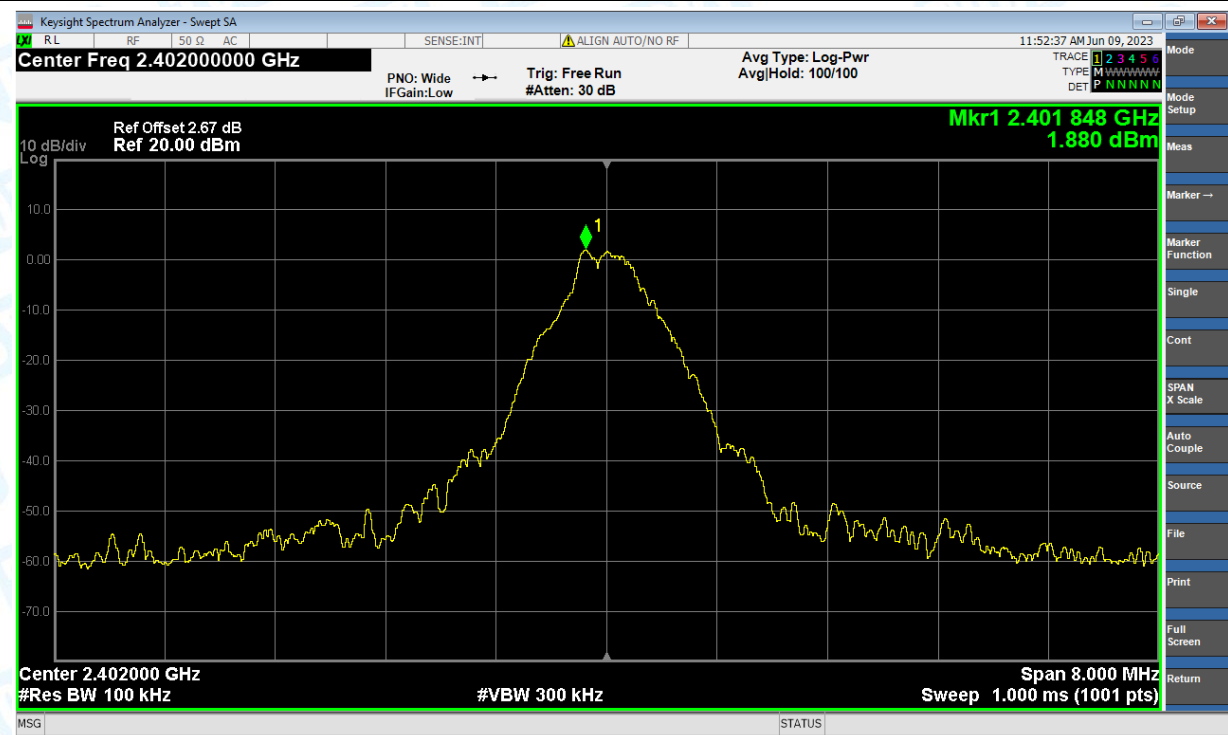


5. Band Edge

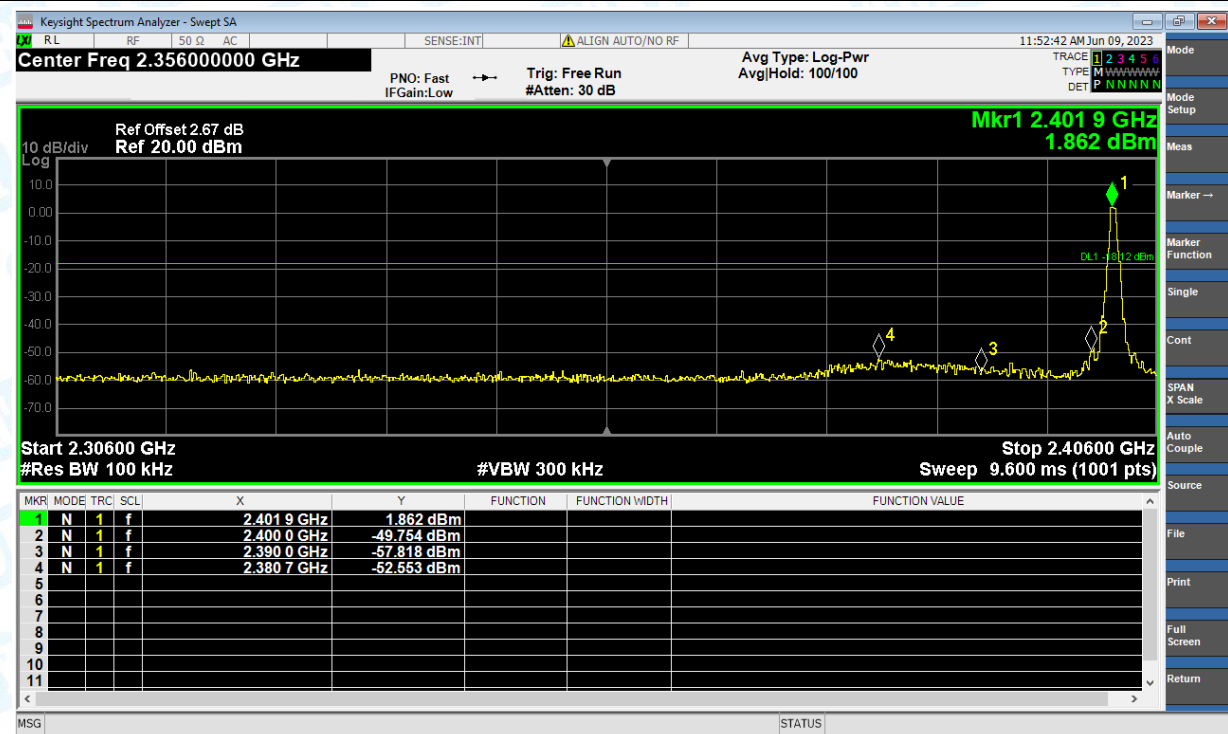
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.43	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.59	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.18	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.46	-20	Pass

Test Graphs

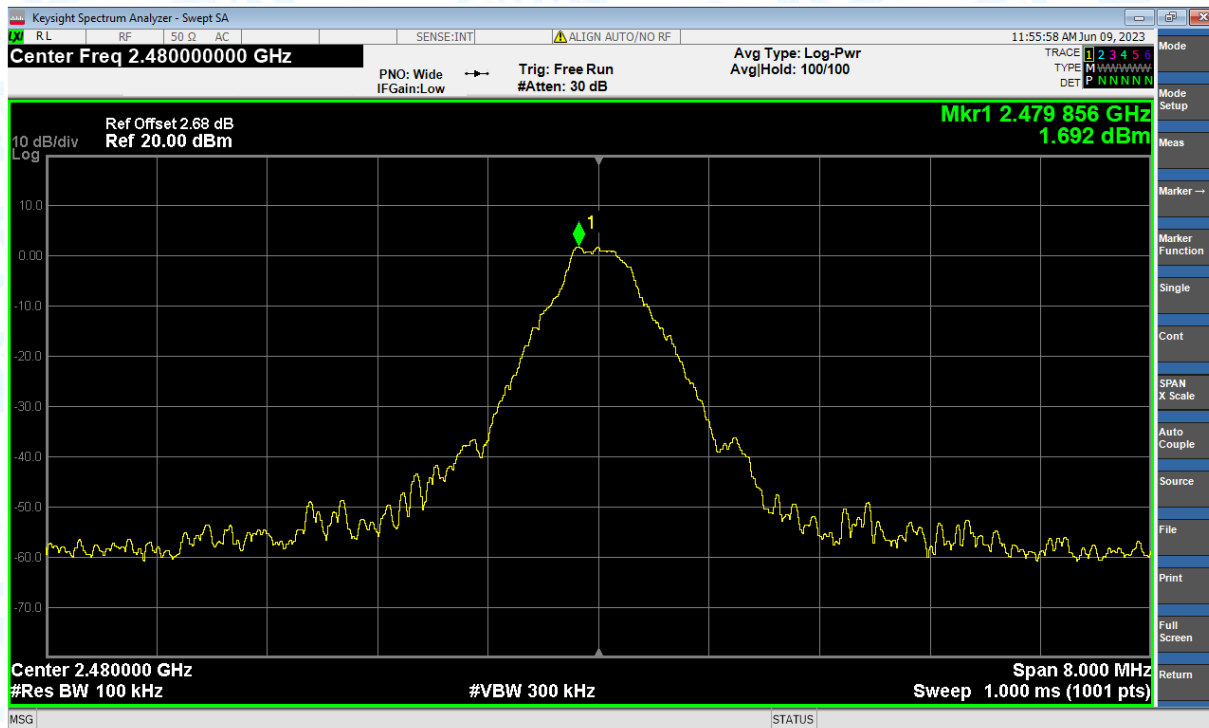
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



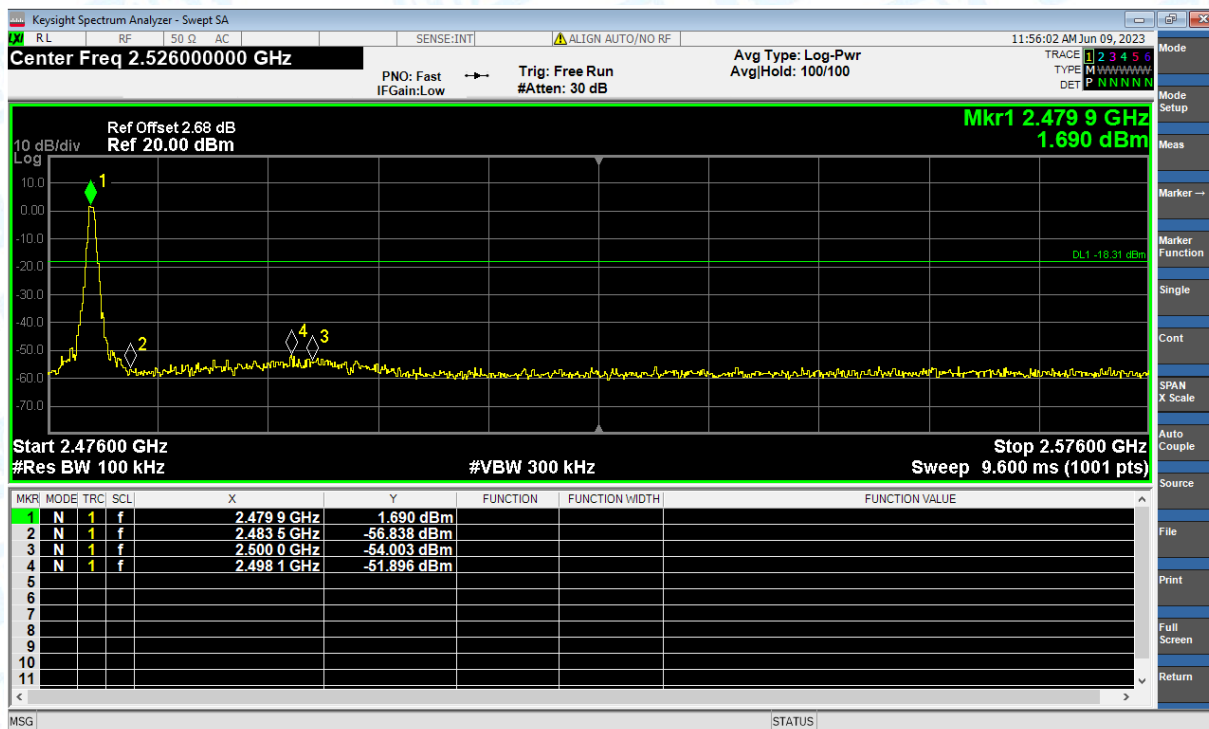
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



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



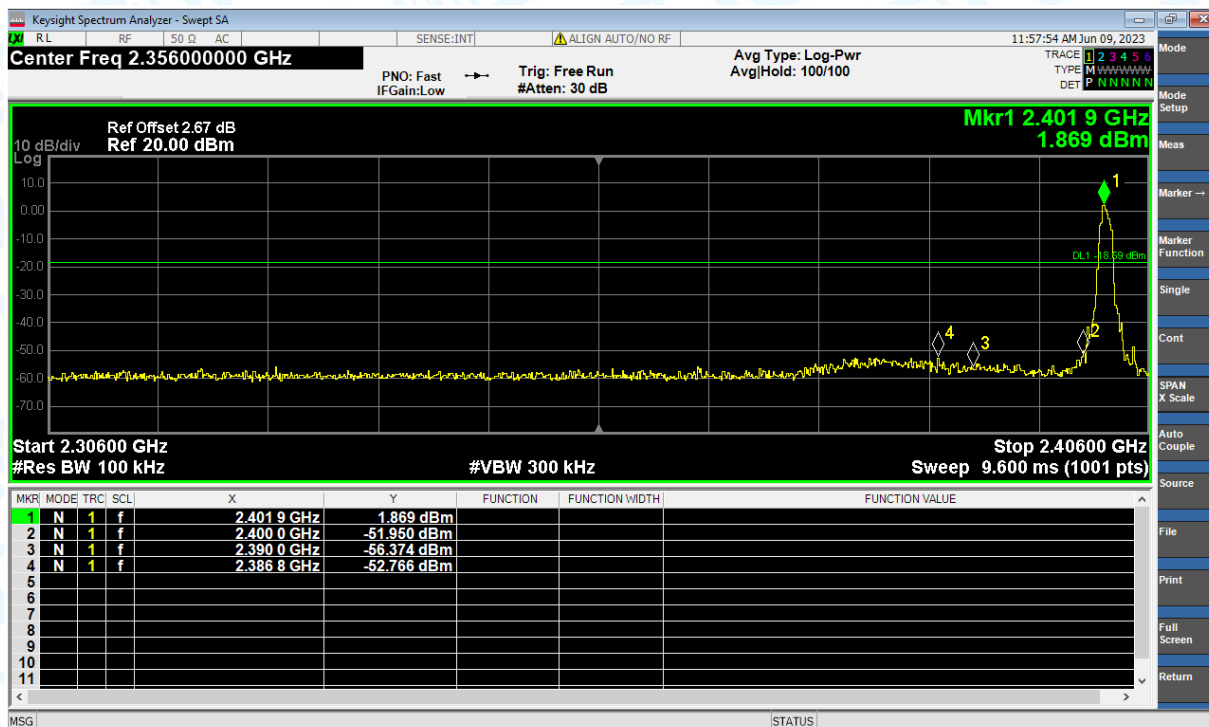
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



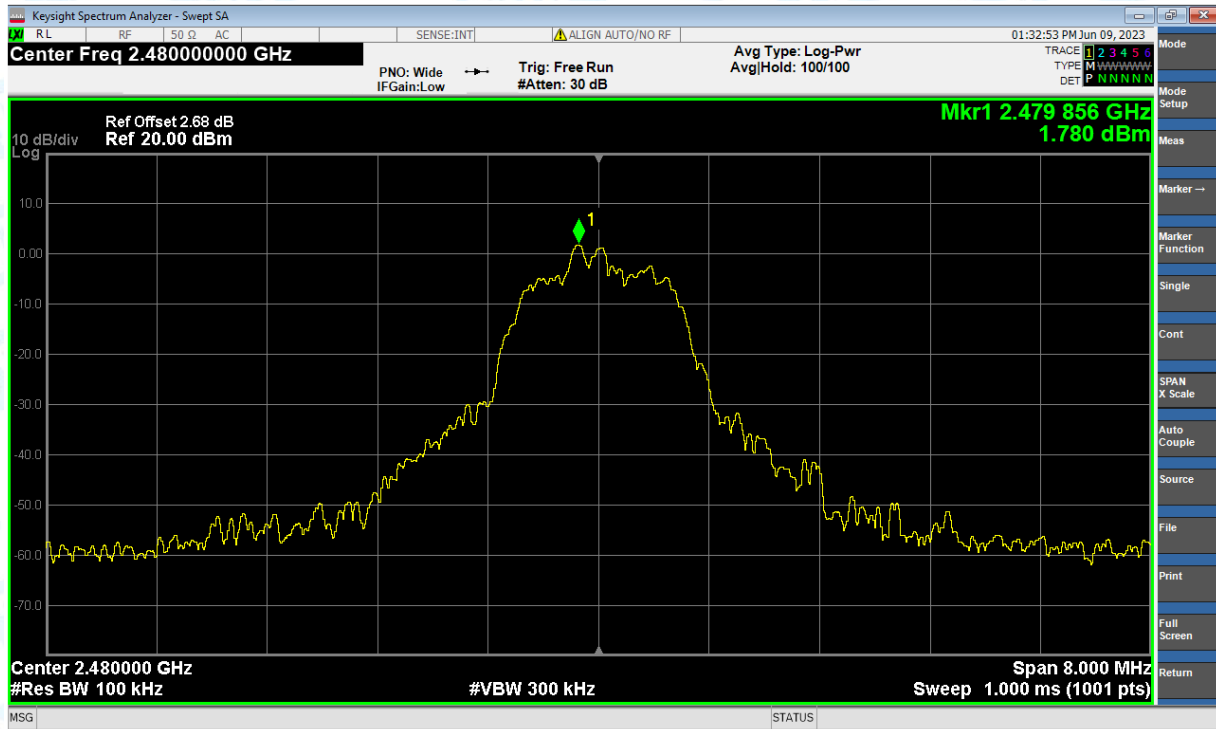
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



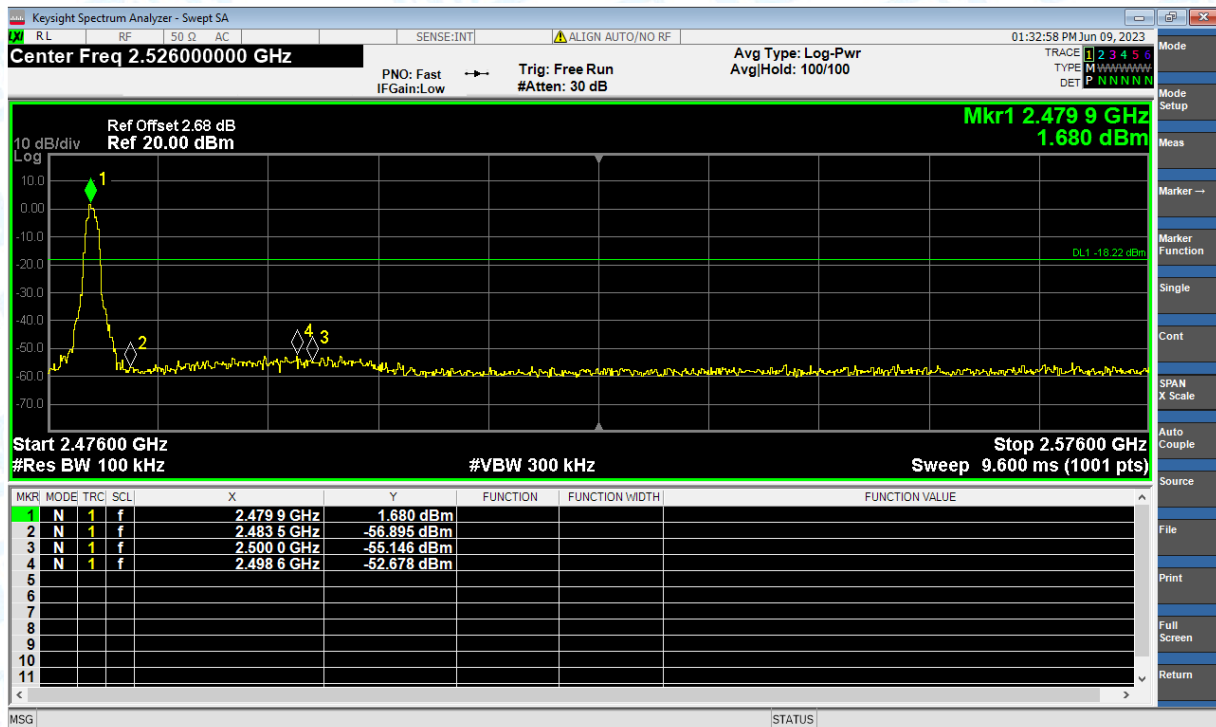
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



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

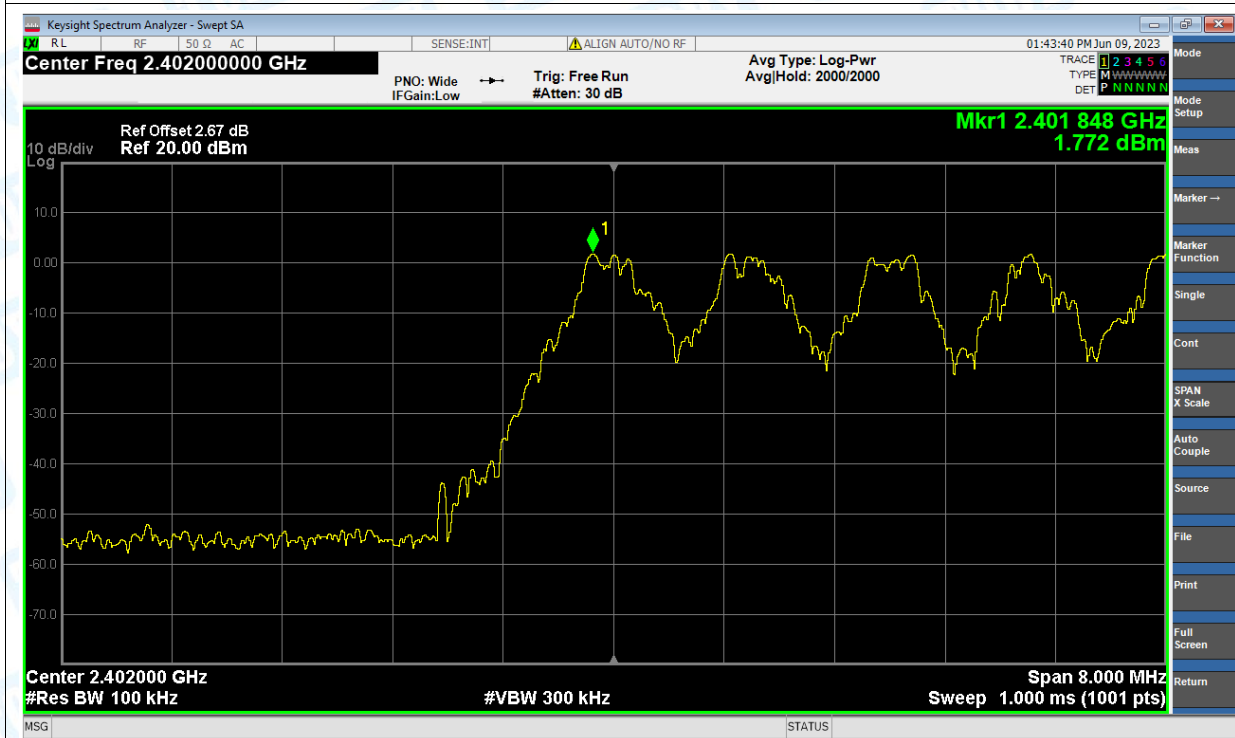


6. Band Edge(Hopping)

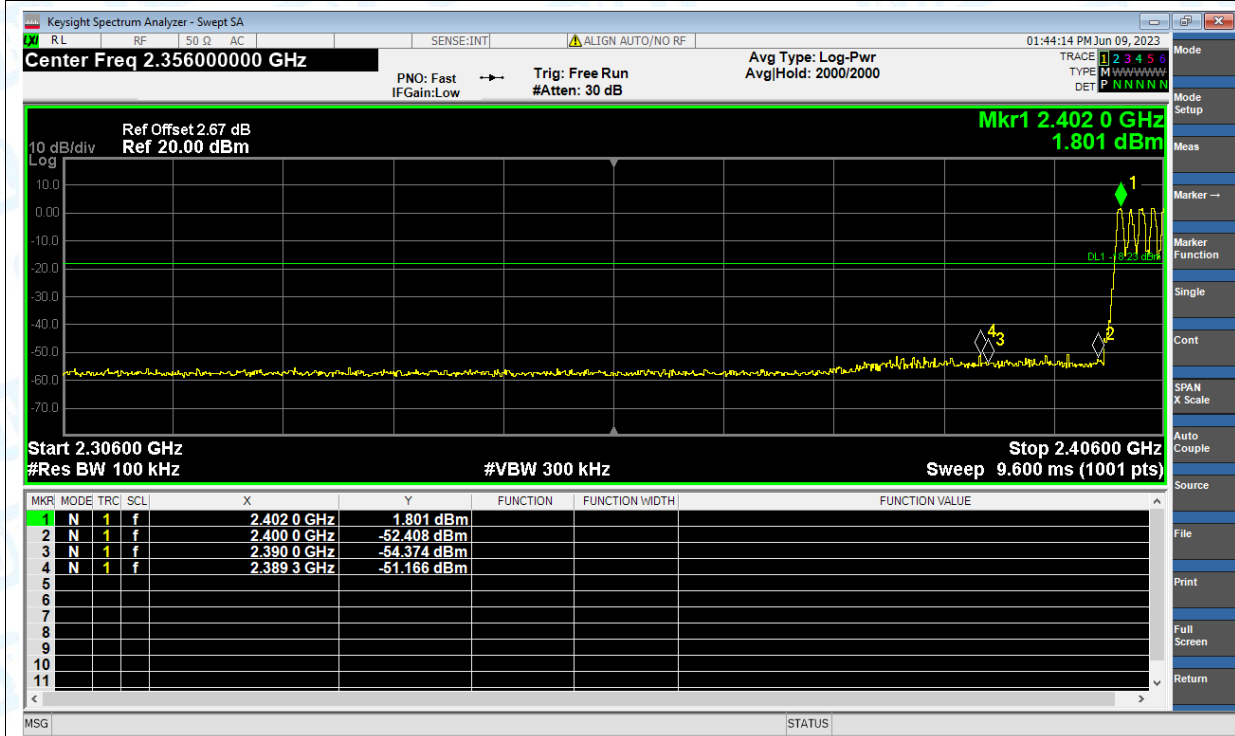
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.94	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.78	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-53.17	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.9	-20	Pass

Test Graphs

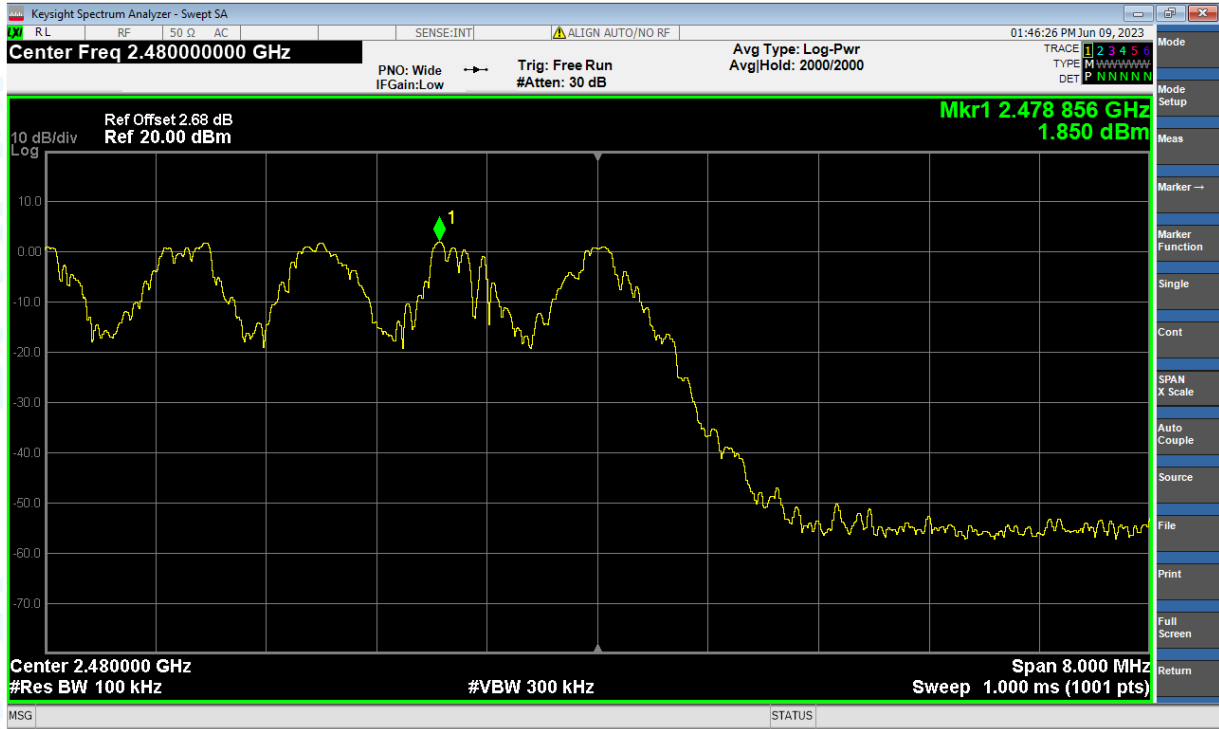
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



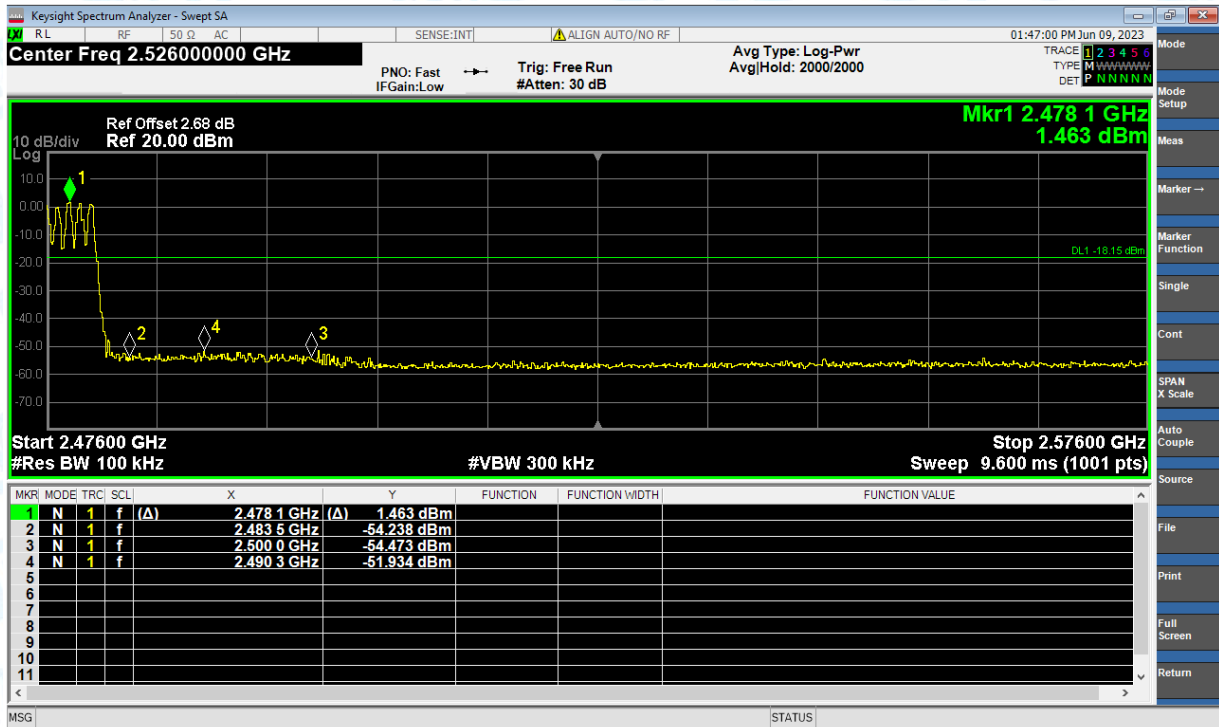
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



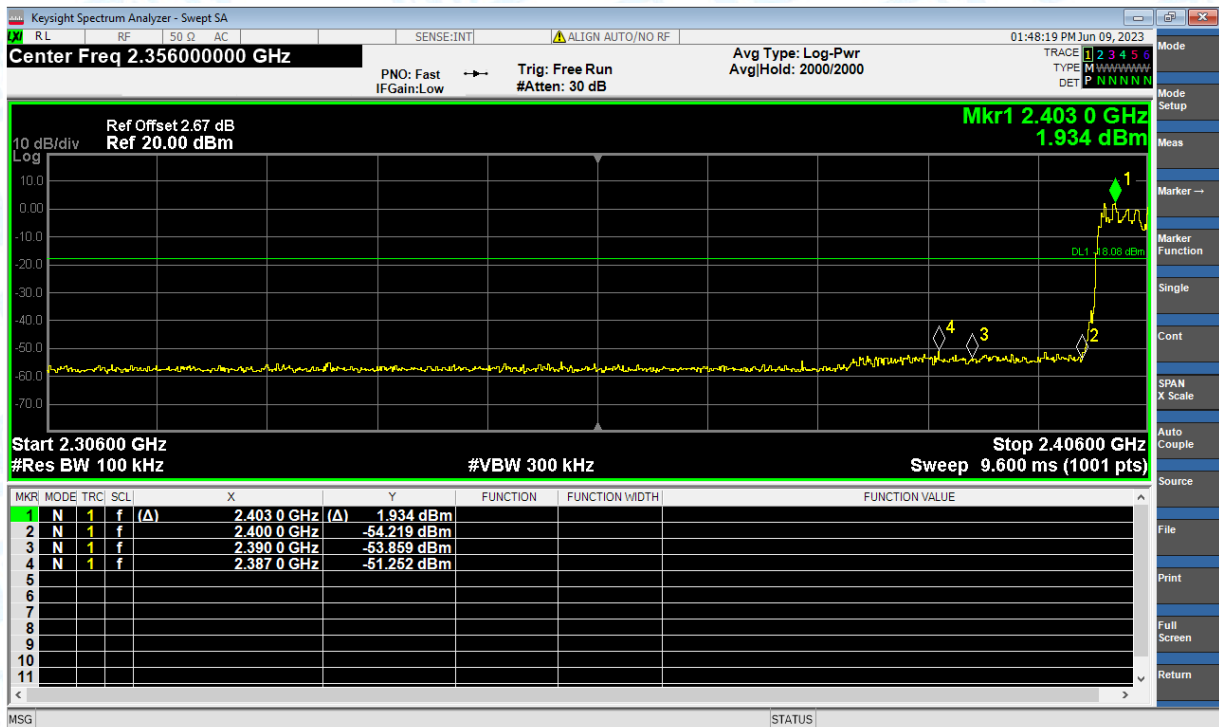
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



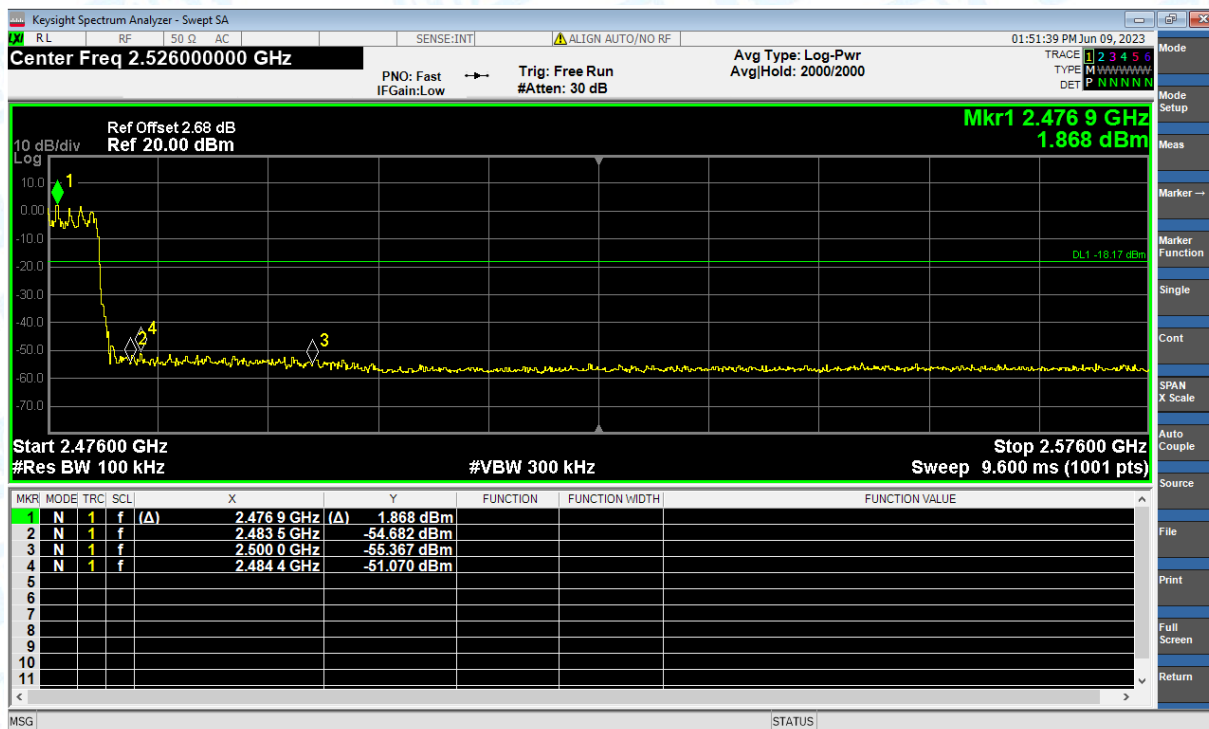
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



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

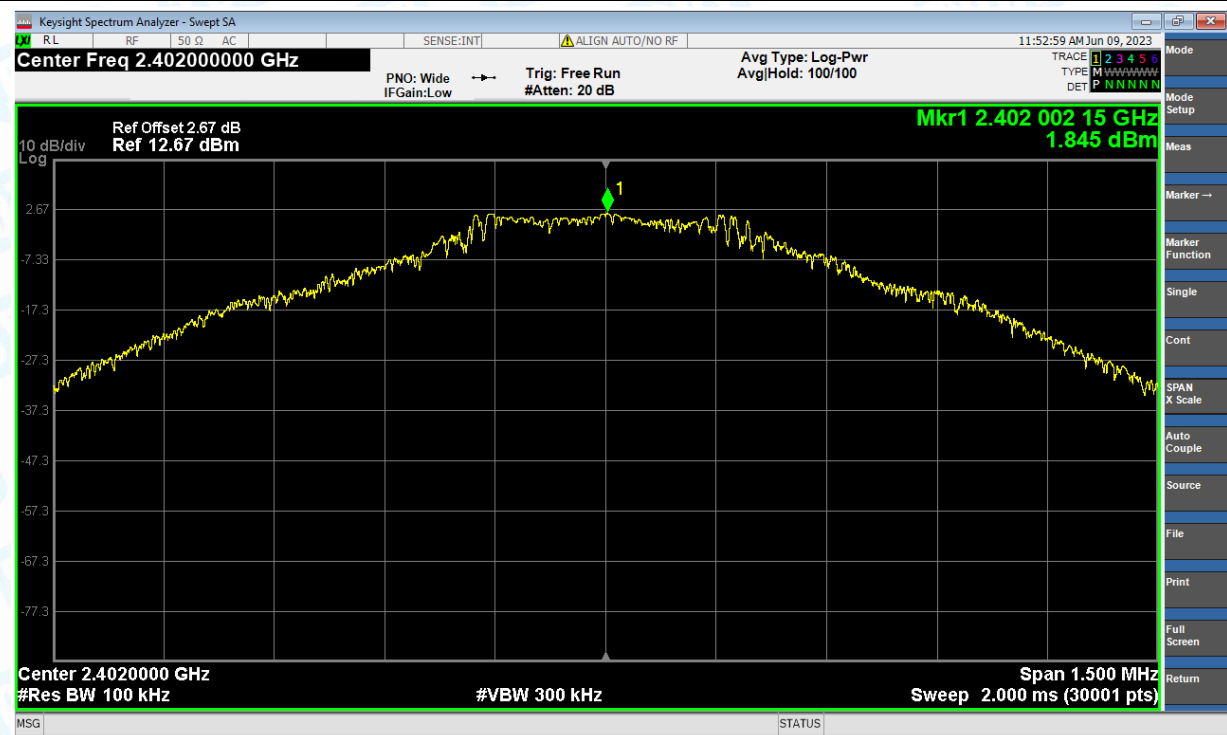


7. Conducted RF Spurious Emission

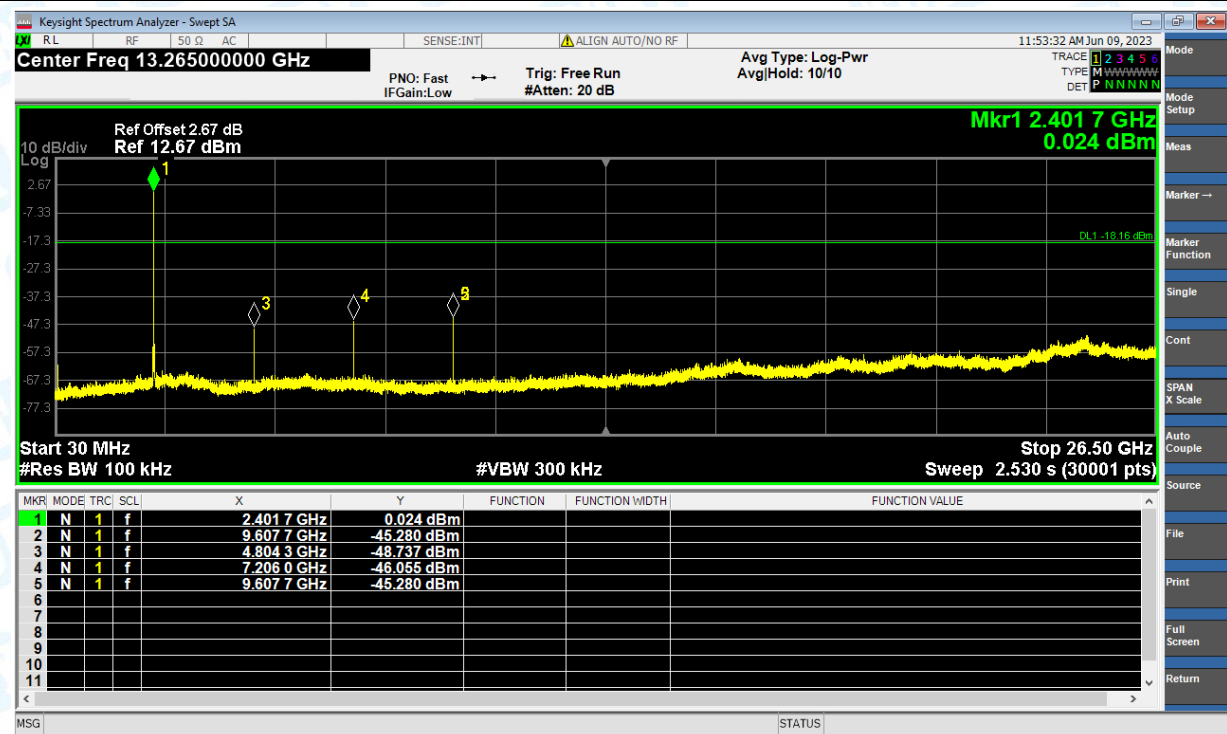
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-47.13	-20	Pass
NVNT	1-DH1	2441	Ant1	-49.24	-20	Pass
NVNT	1-DH1	2480	Ant1	-47.78	-20	Pass
NVNT	2-DH1	2402	Ant1	-46.69	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.68	-20	Pass
NVNT	2-DH1	2480	Ant1	-44.93	-20	Pass

Test Graphs

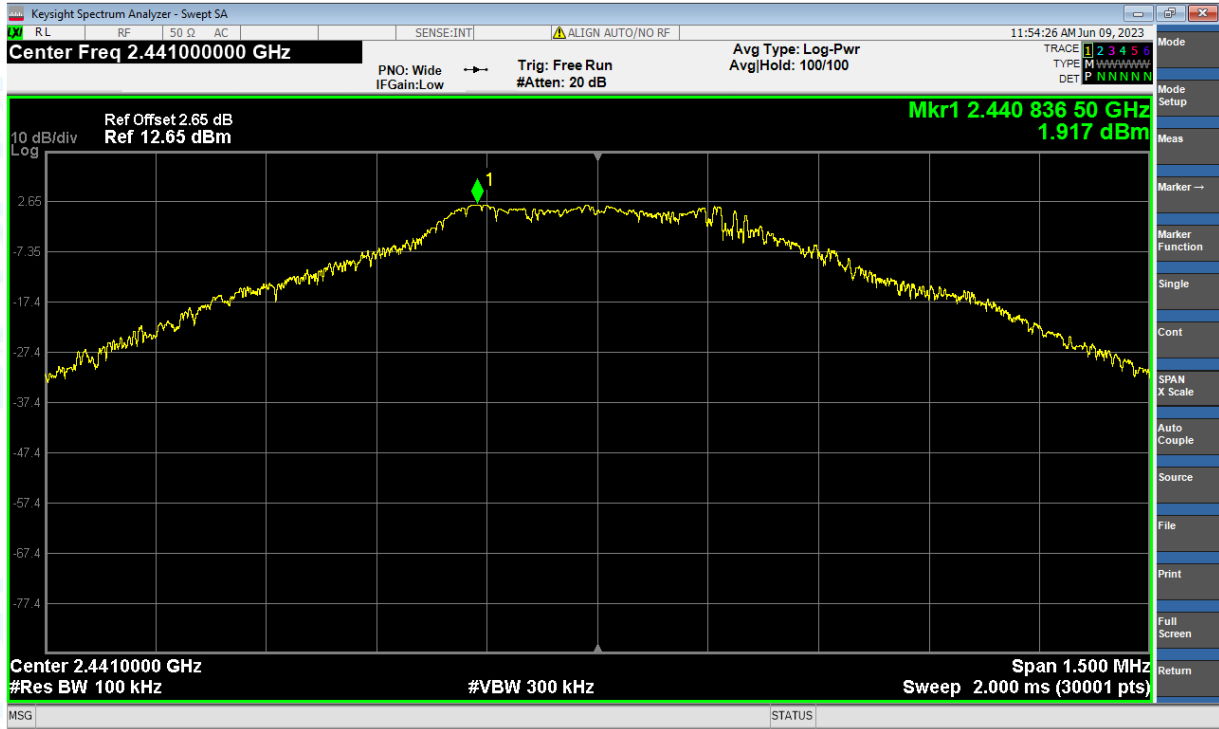
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



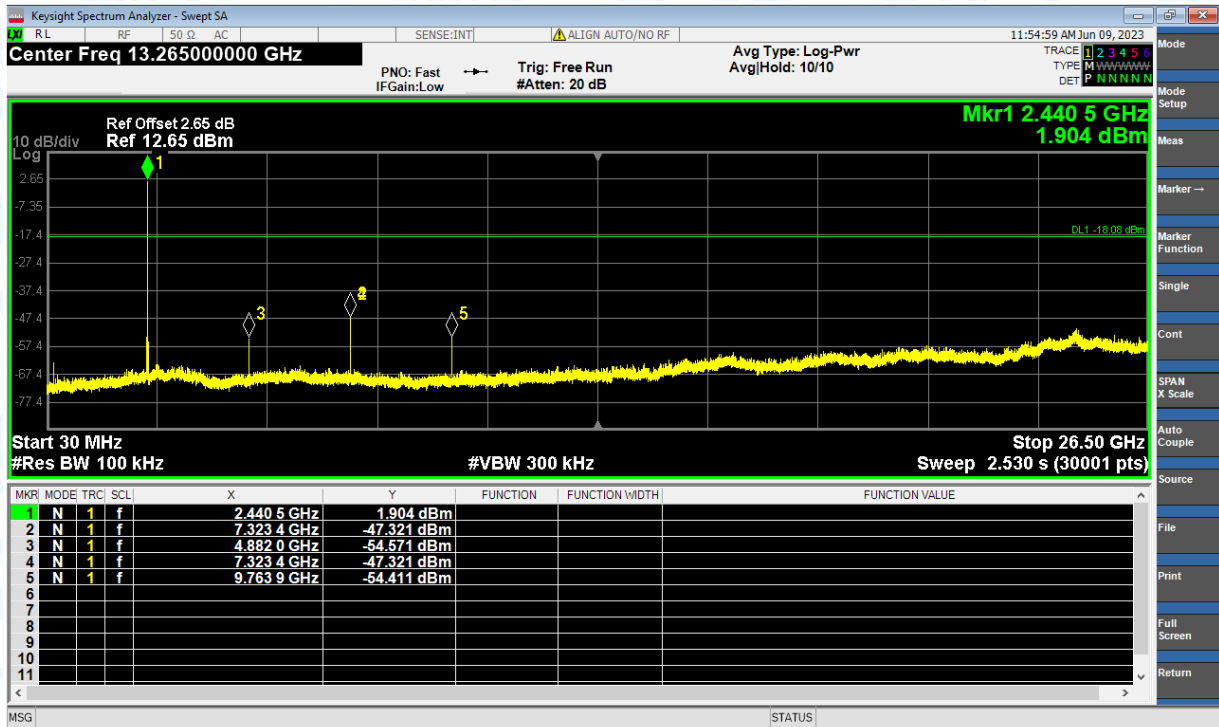
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



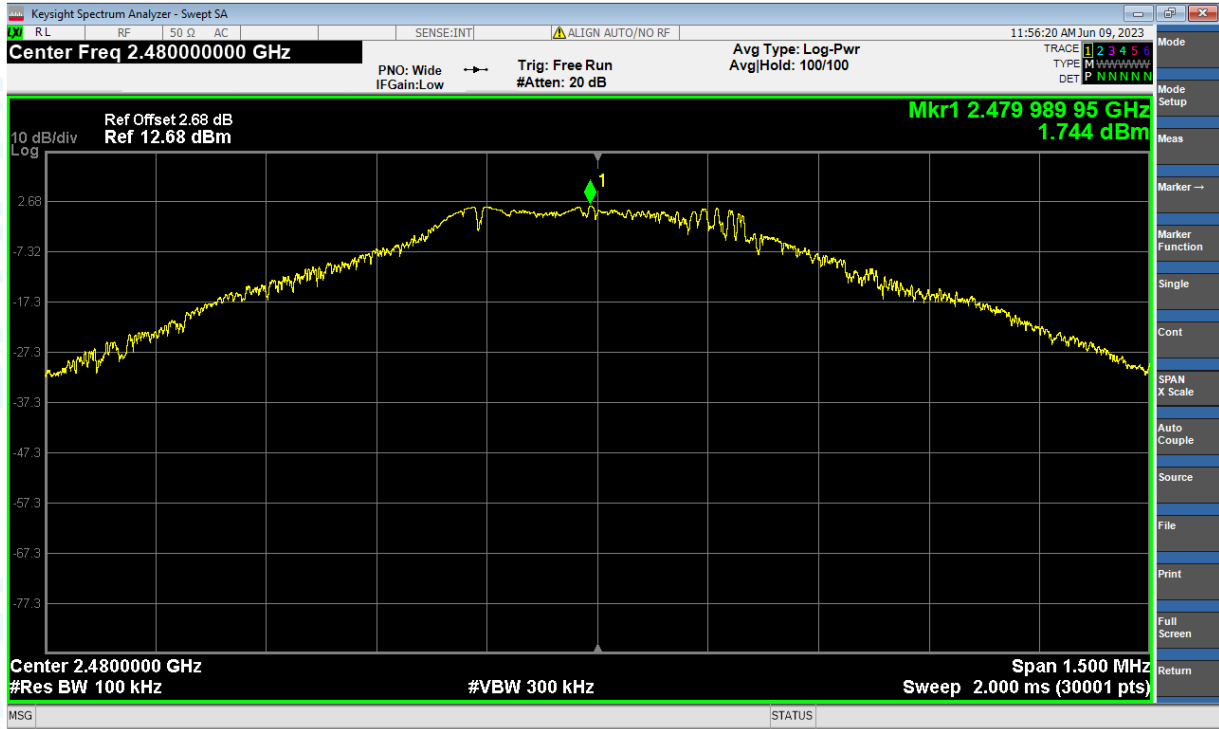
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



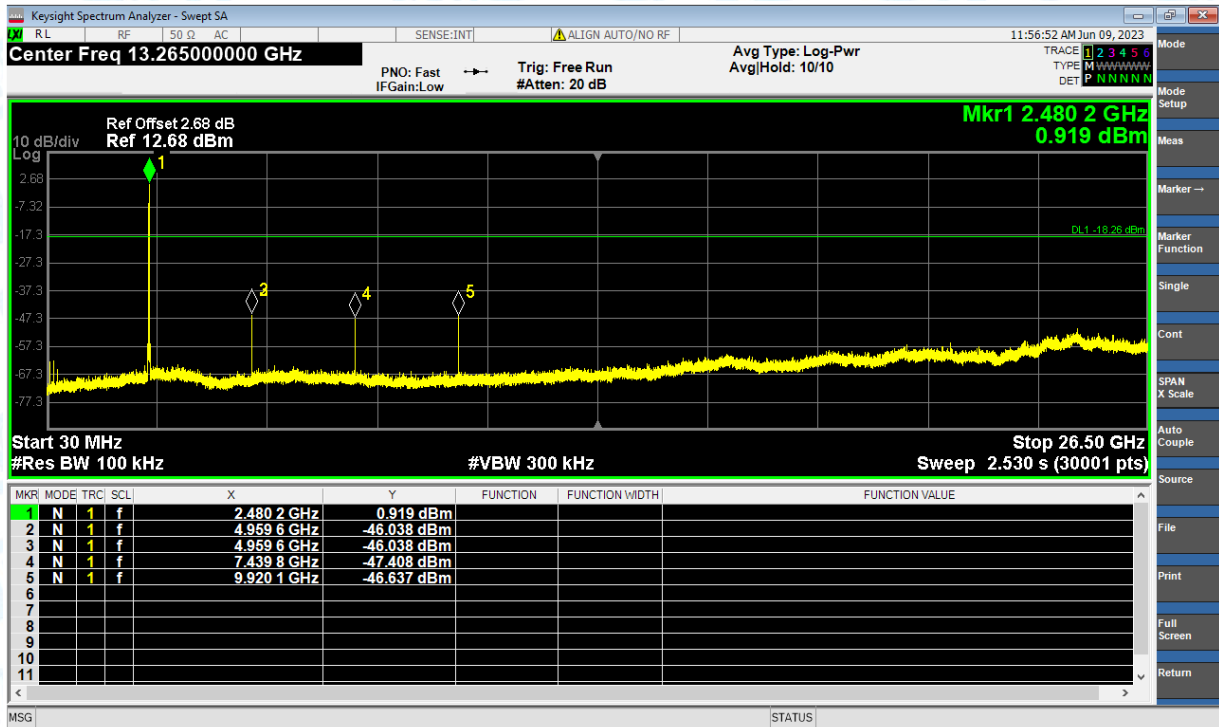
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



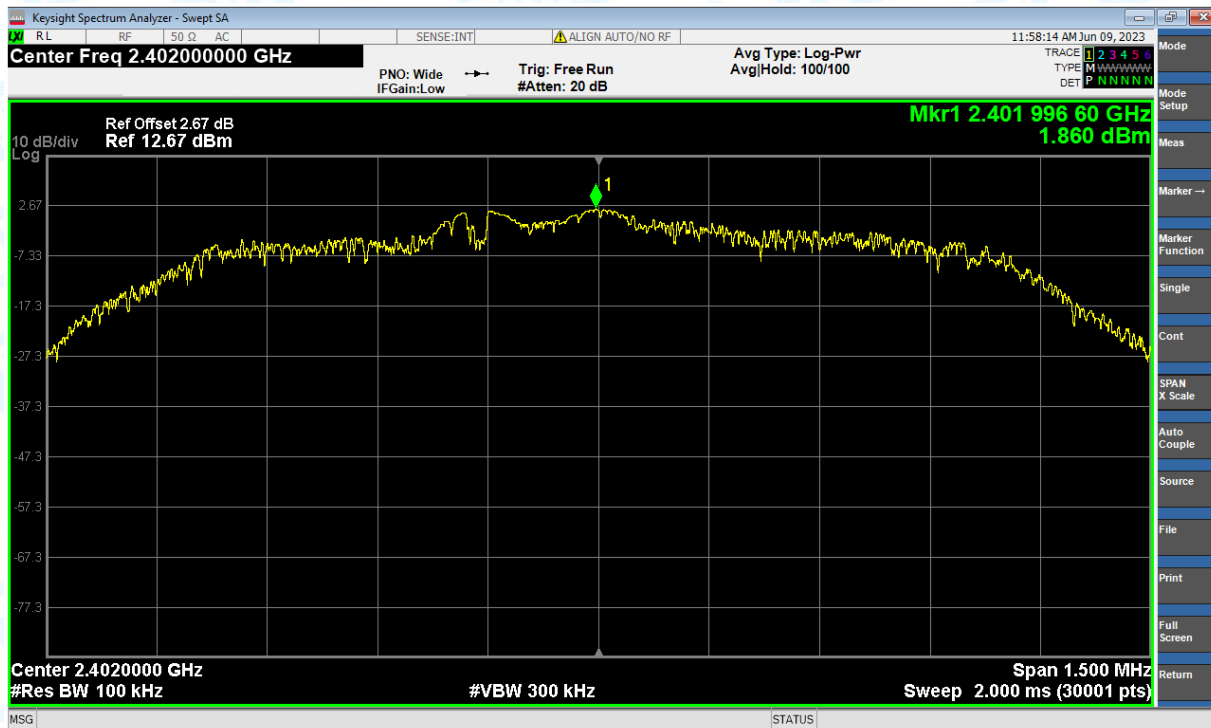
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



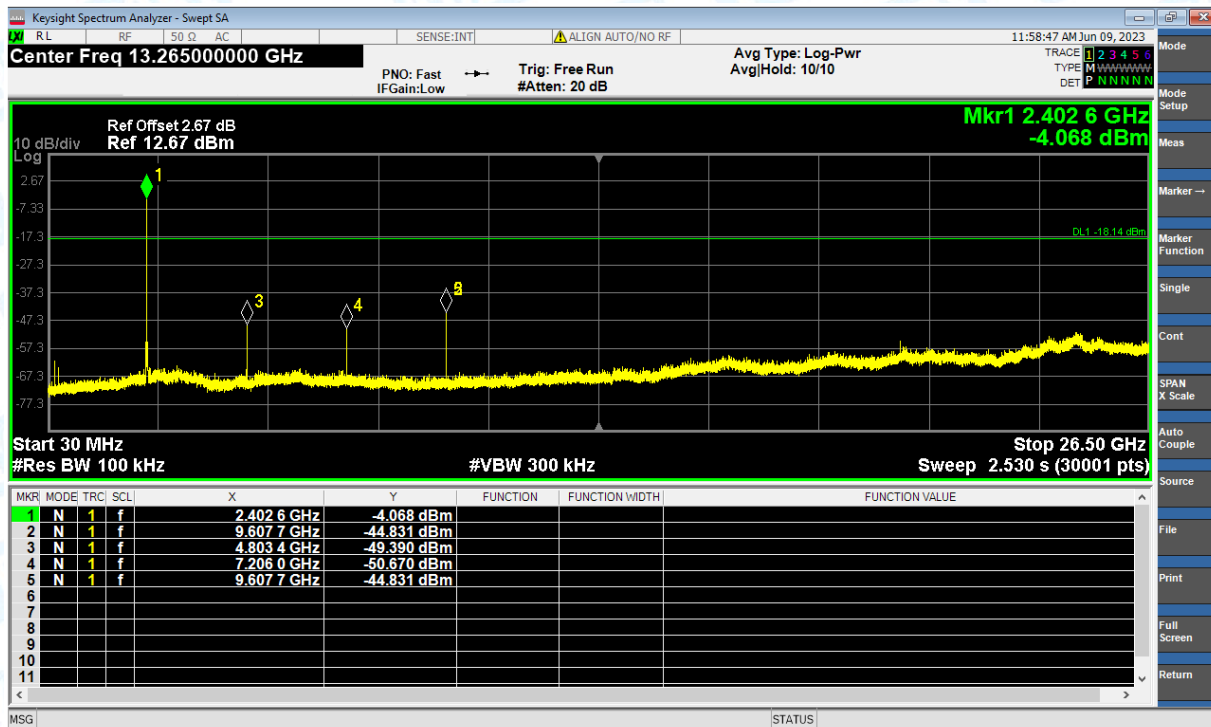
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



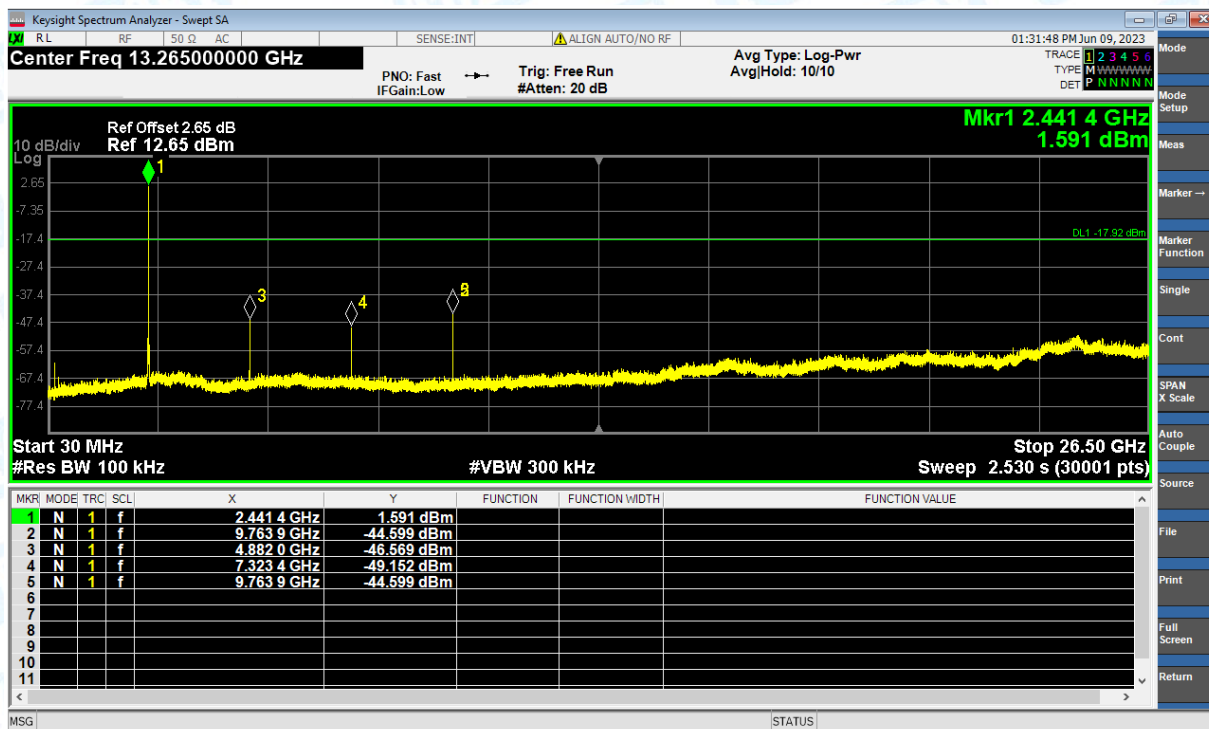
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



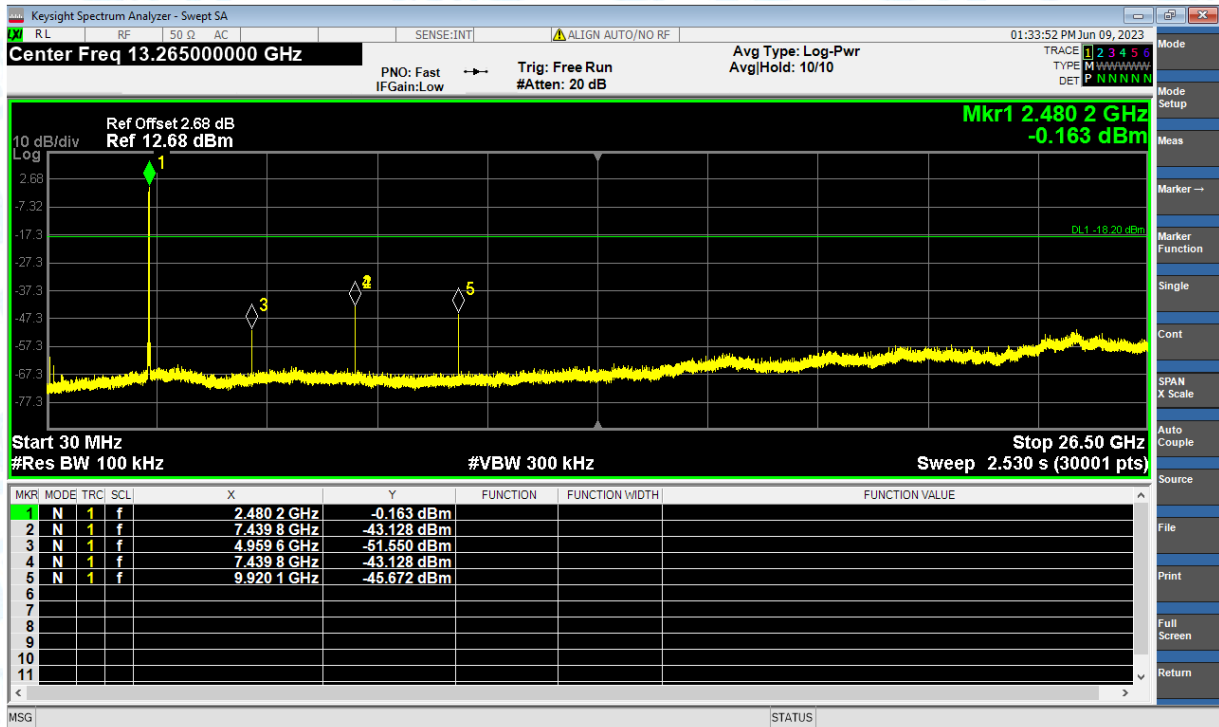
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

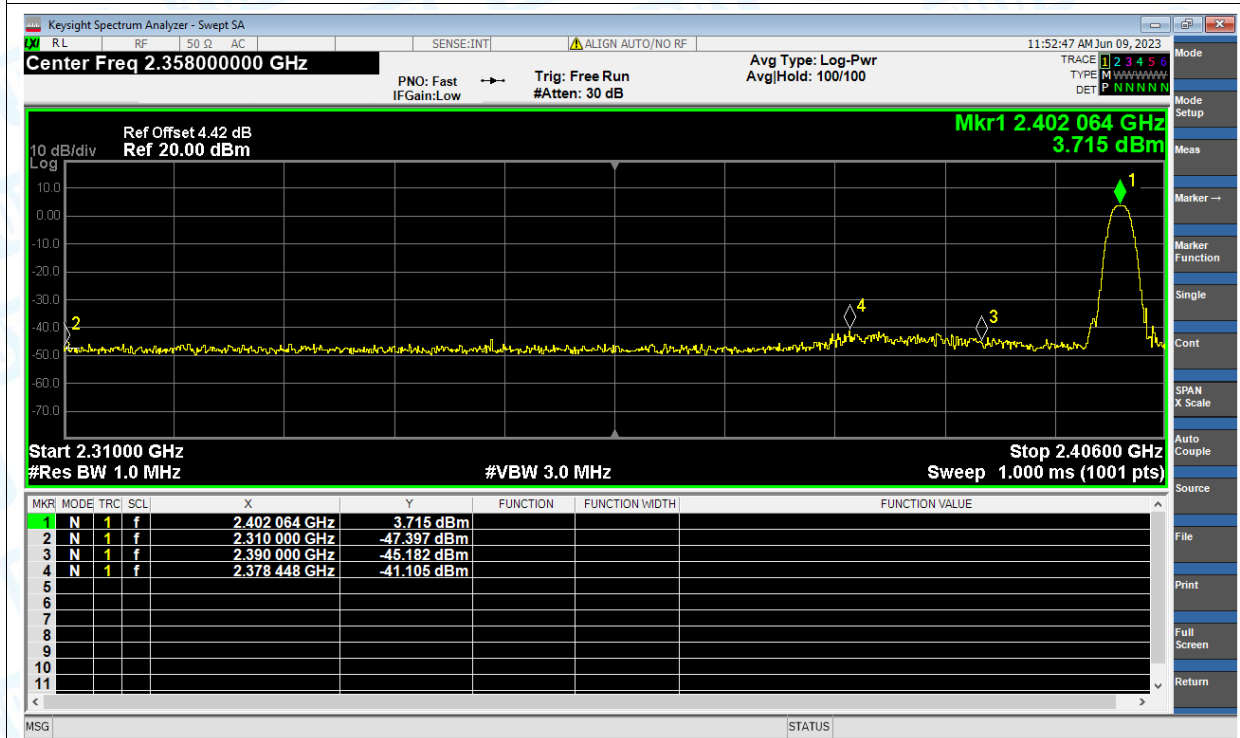


8. Restrict Band

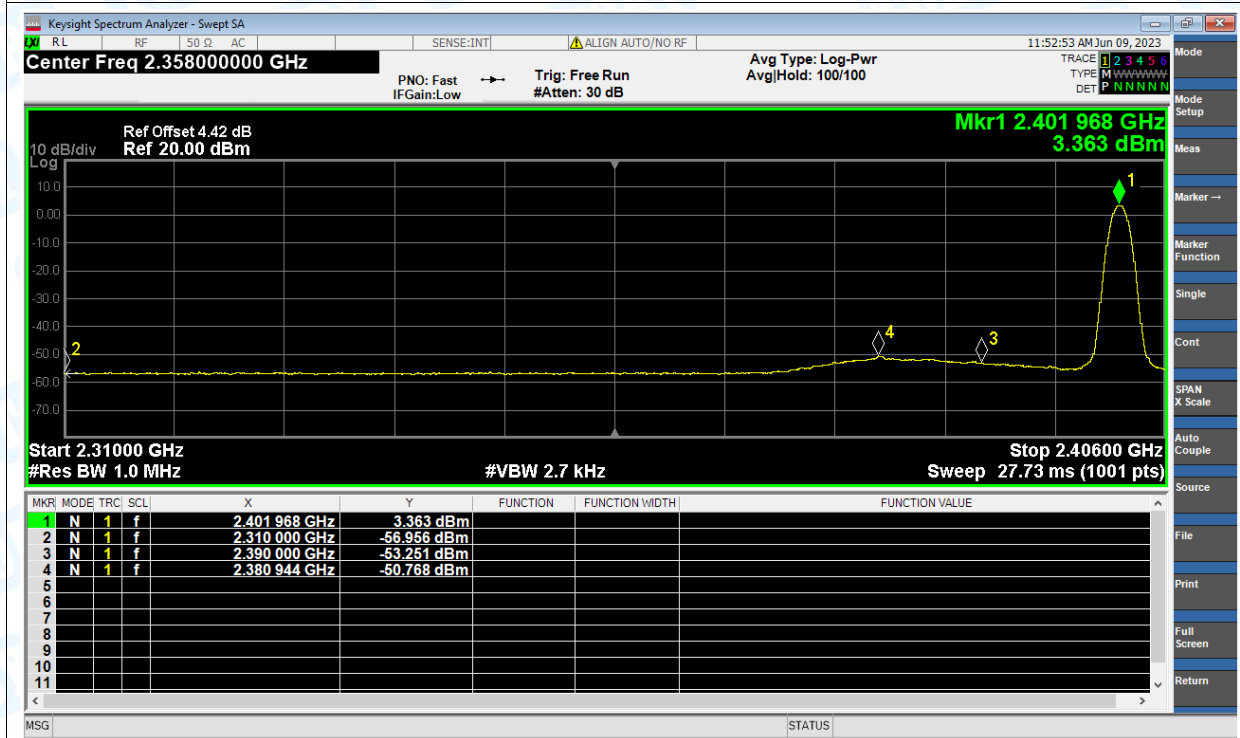
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.4	2	49.86	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.96	2	40.3	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2378.448	-41.1	2	56.16	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2380.944	-50.77	2	46.49	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.55	2	51.71	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.92	2	44.34	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.77	2	52.49	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.45	2	42.81	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2497.768	-41.1	2	56.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2499.976	-51.35	2	45.91	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-41.6	2	55.66	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-51.5	2	45.76	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.44	2	49.82	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.8	2	40.46	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2381.04	-41.09	2	56.17	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2383.056	-51.43	2	45.83	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-43.24	2	54.02	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-53.32	2	43.94	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.18	2	50.08	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.7	2	42.56	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.032	-40.63	2	56.63	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.536	-50.81	2	46.45	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-44.9	2	52.36	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-52.04	2	45.22	Average	54	Pass

Test Graphs

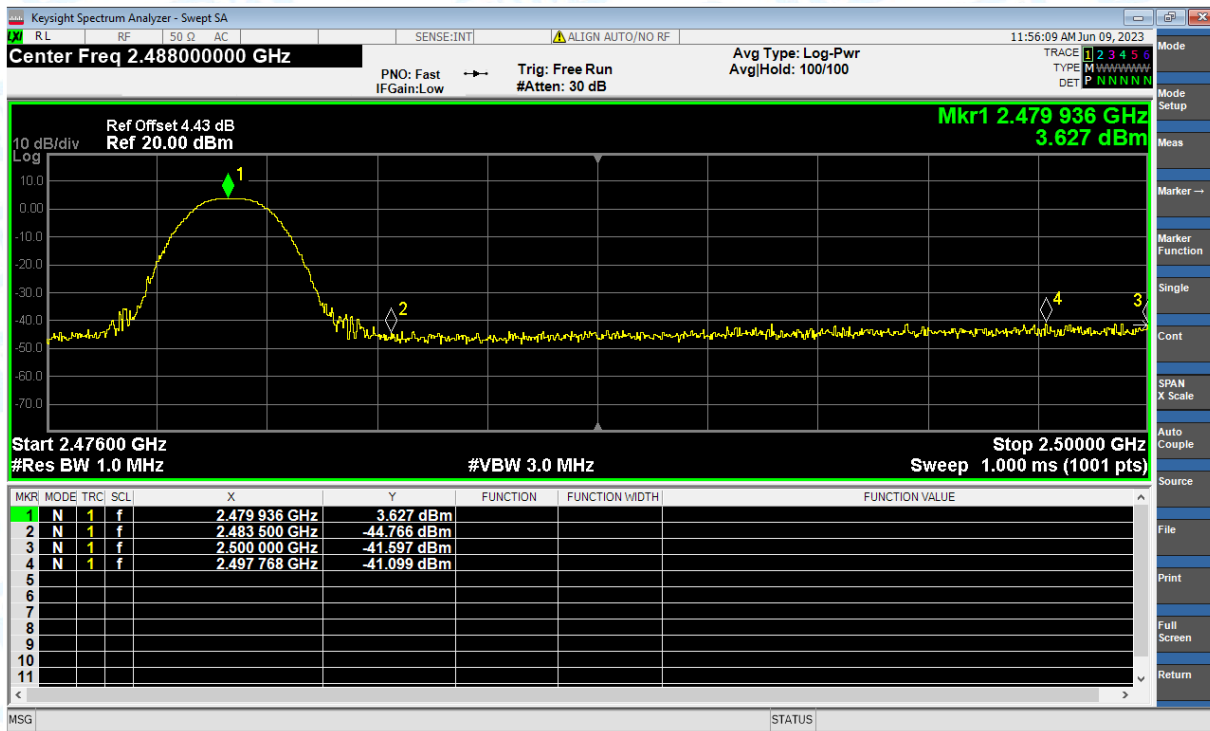
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



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



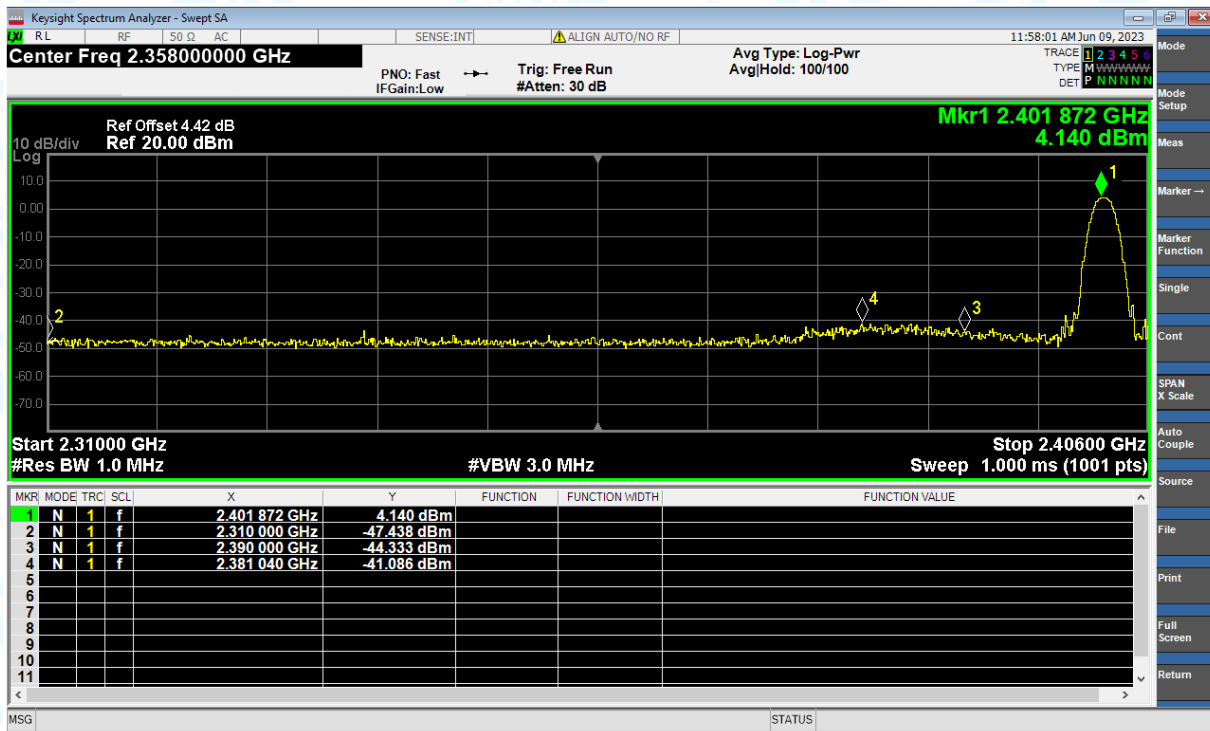
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



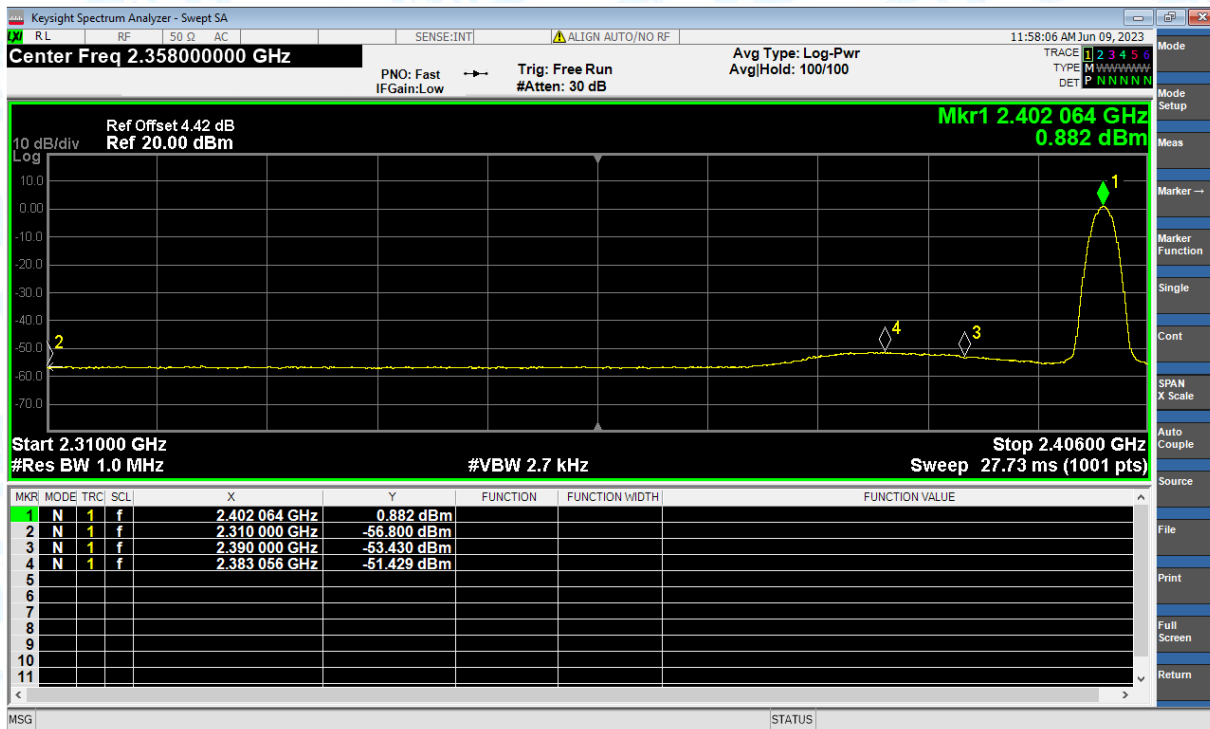
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



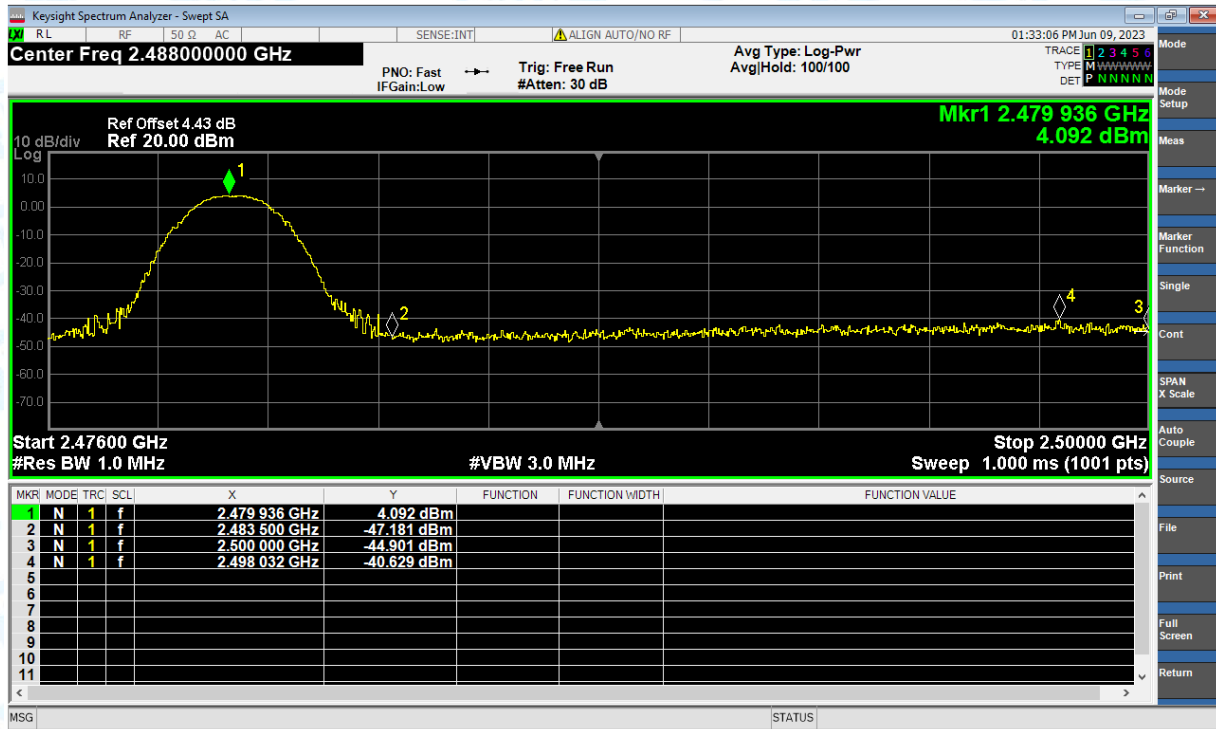
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



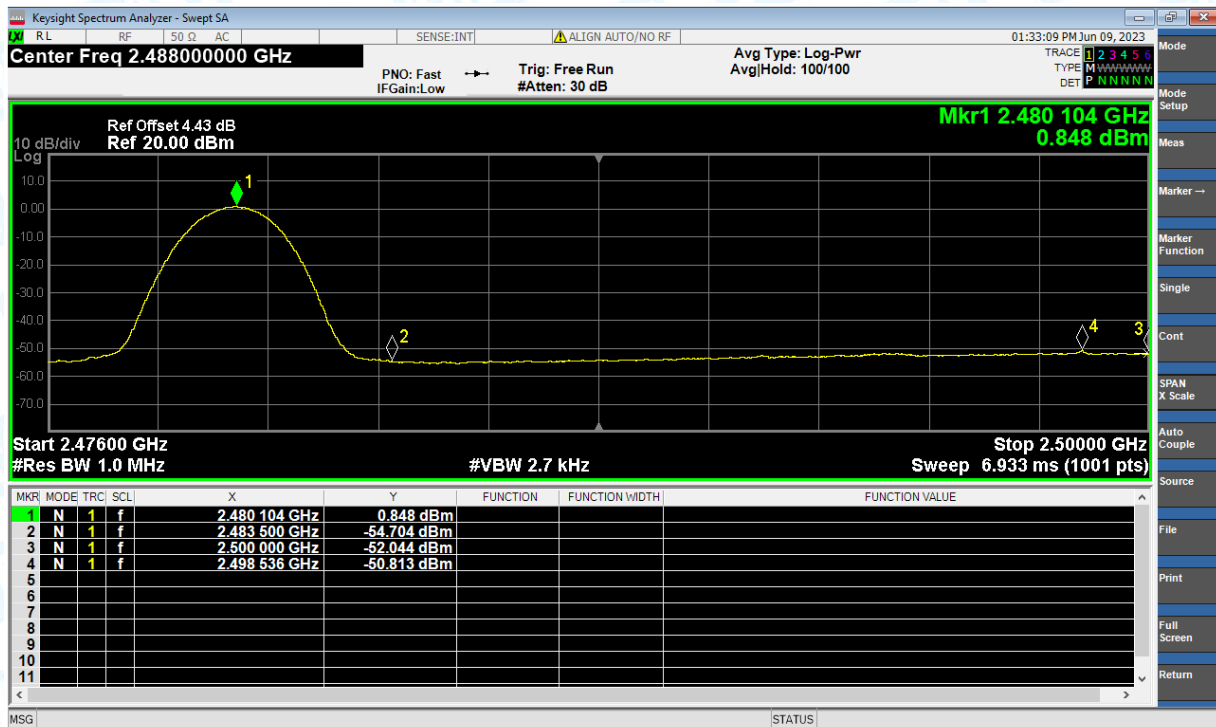
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



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



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



9. Carrier Frequencies Separation

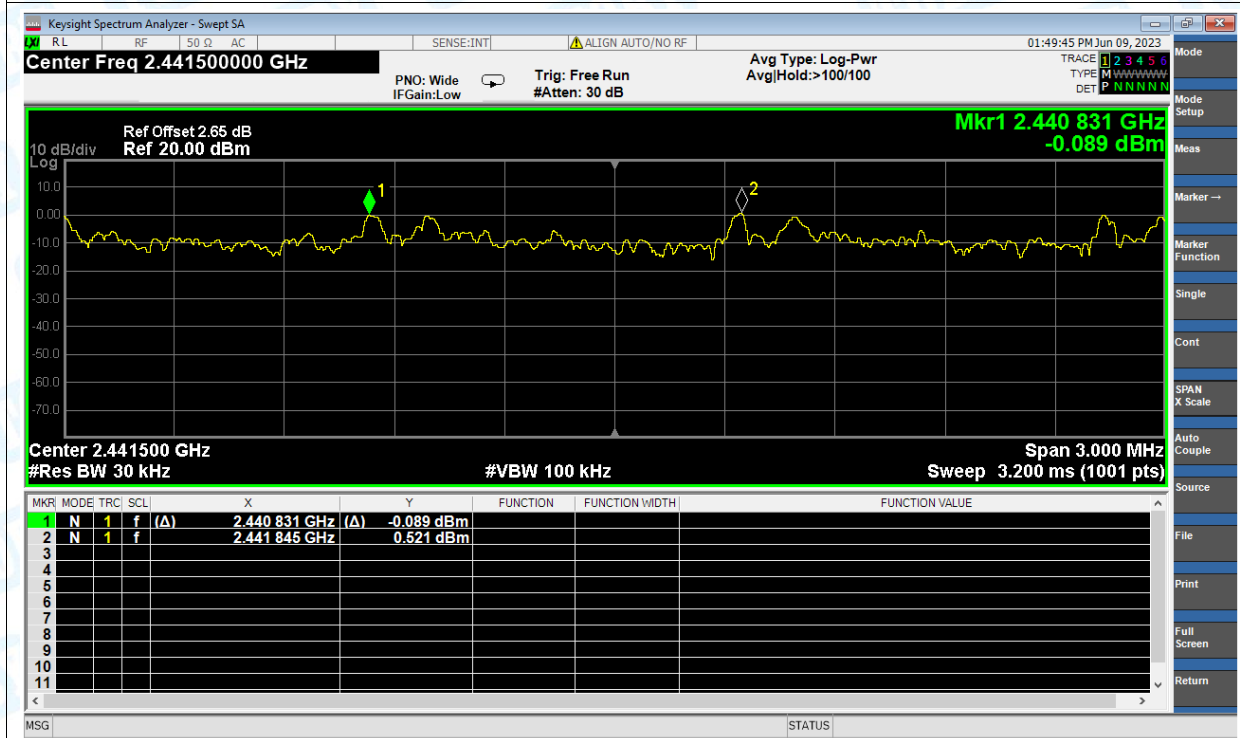
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.831	2441.833	1.002	0.607	Pass
NVNT	2-DH1	Ant1	2440.831	2441.845	1.014	0.82	Pass

Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

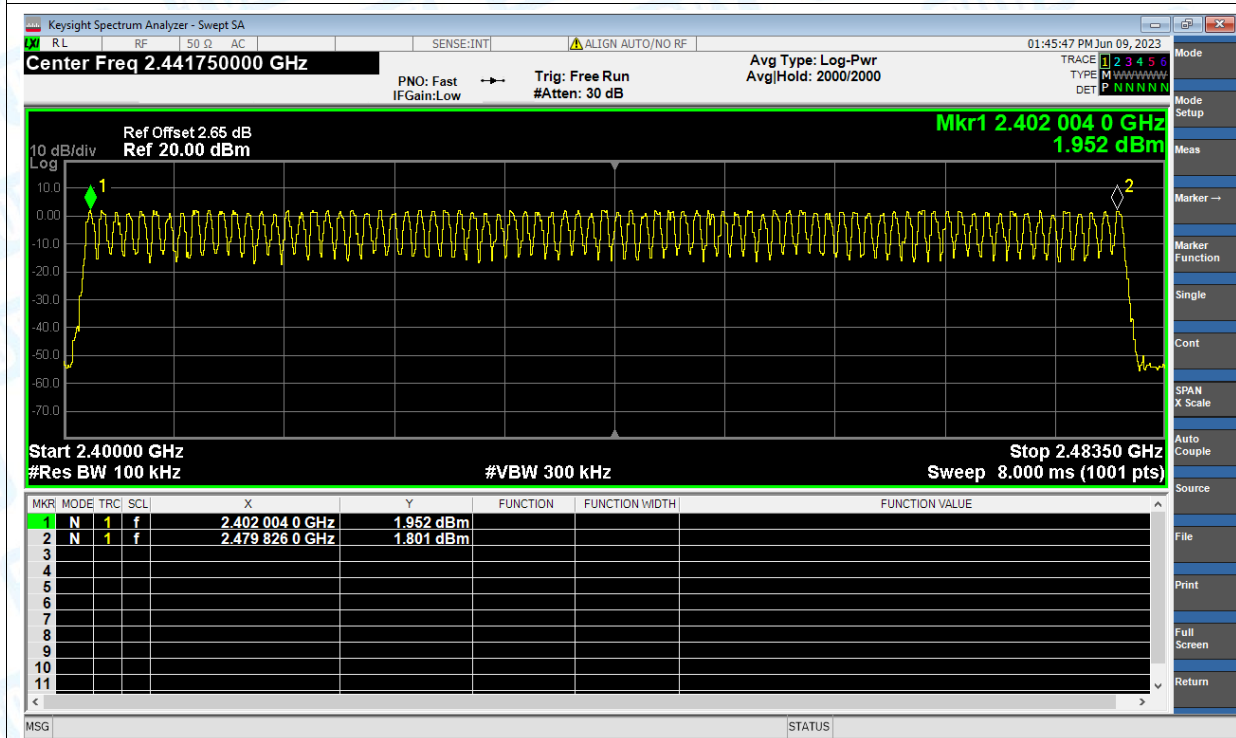


10. Number of Hopping Channel

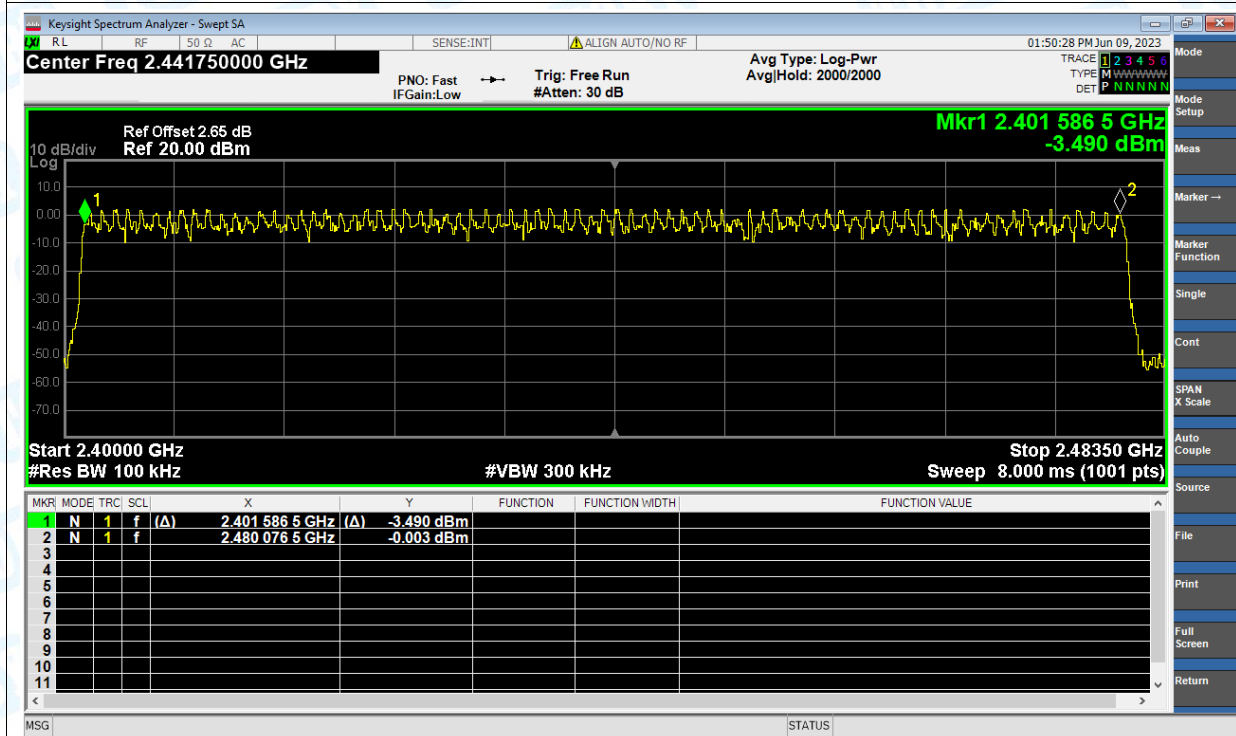
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

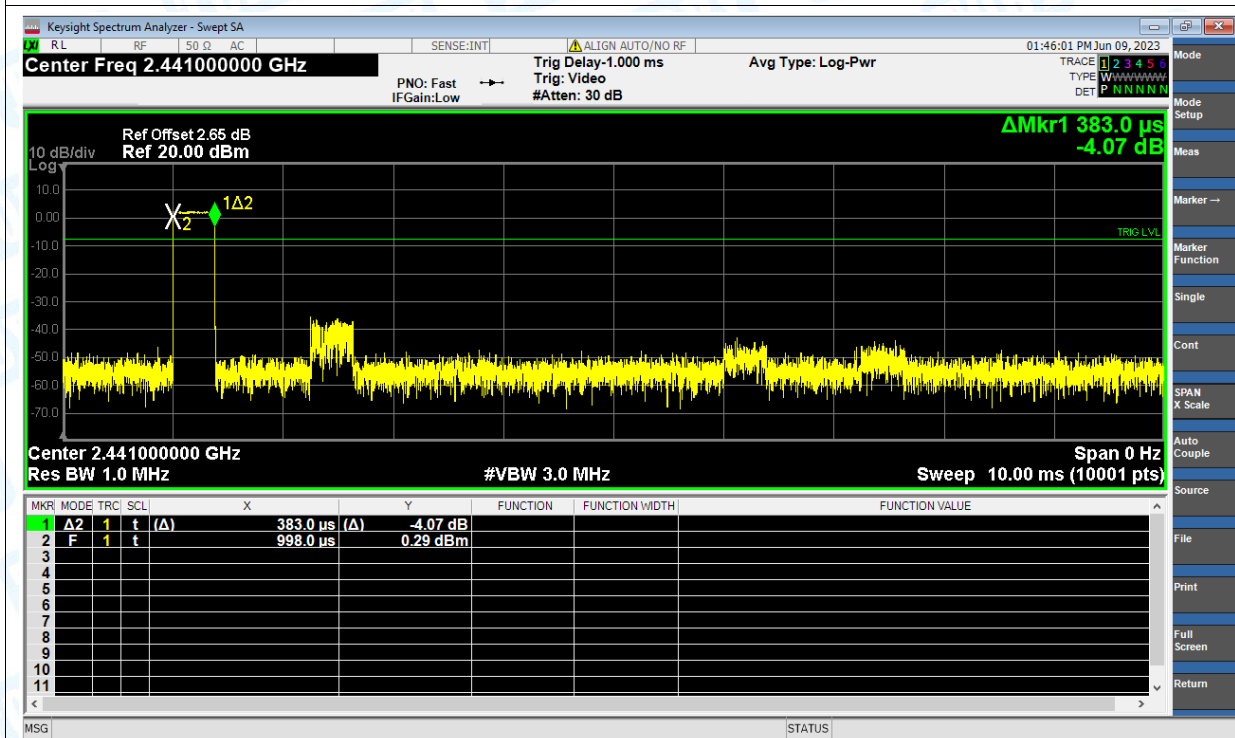


11. Dwell Time

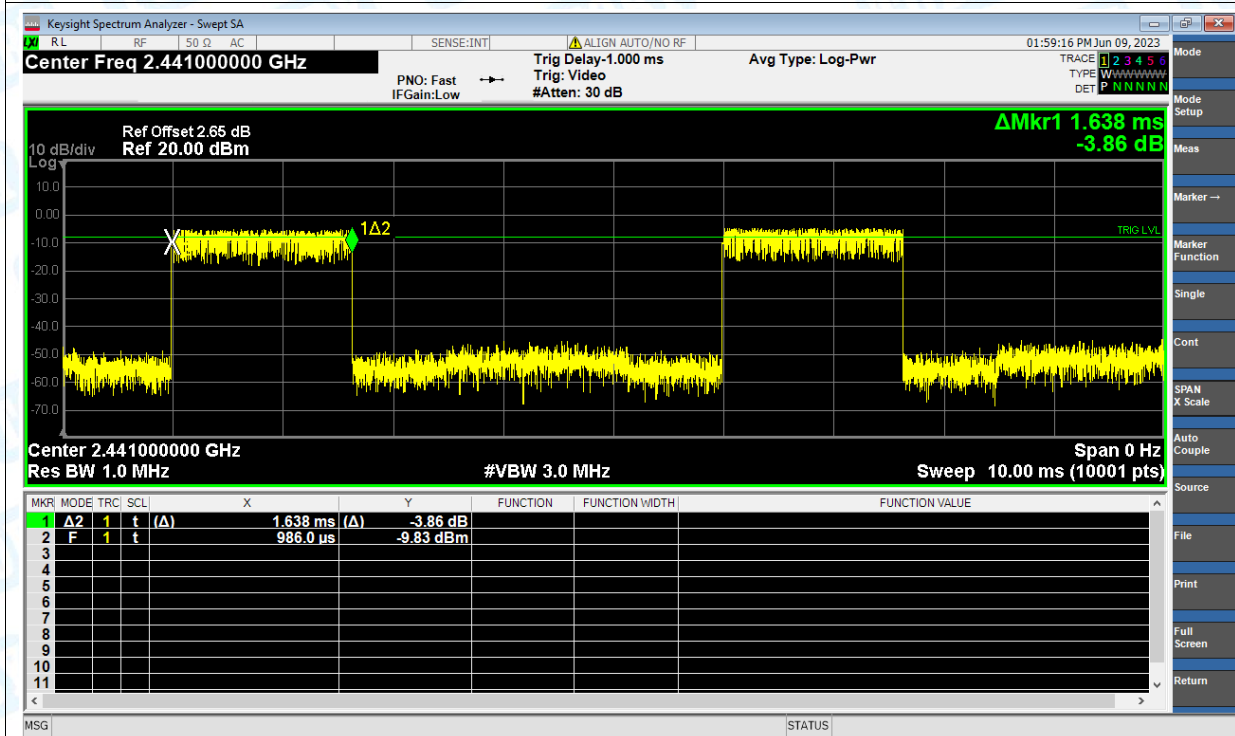
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.638	262.08	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	308.48	31600	400	Pass

Test Graphs

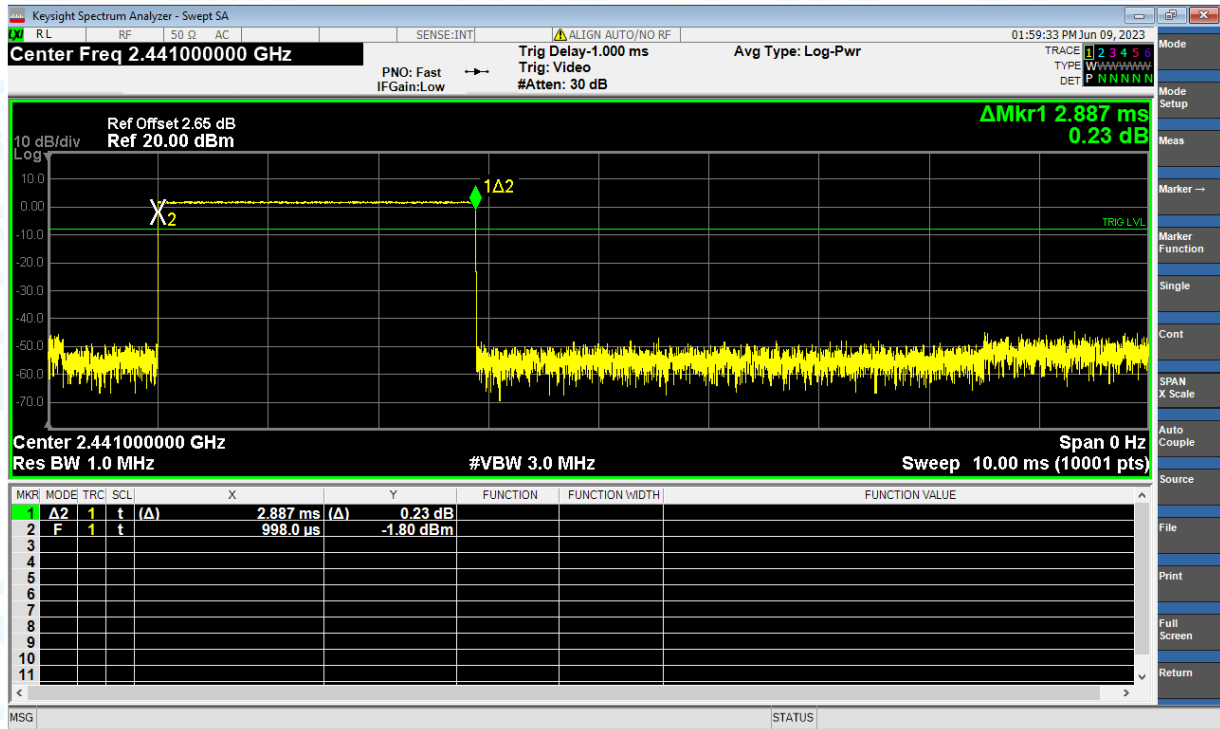
Dwell NVNT 1-DH1 2441MHz Ant1



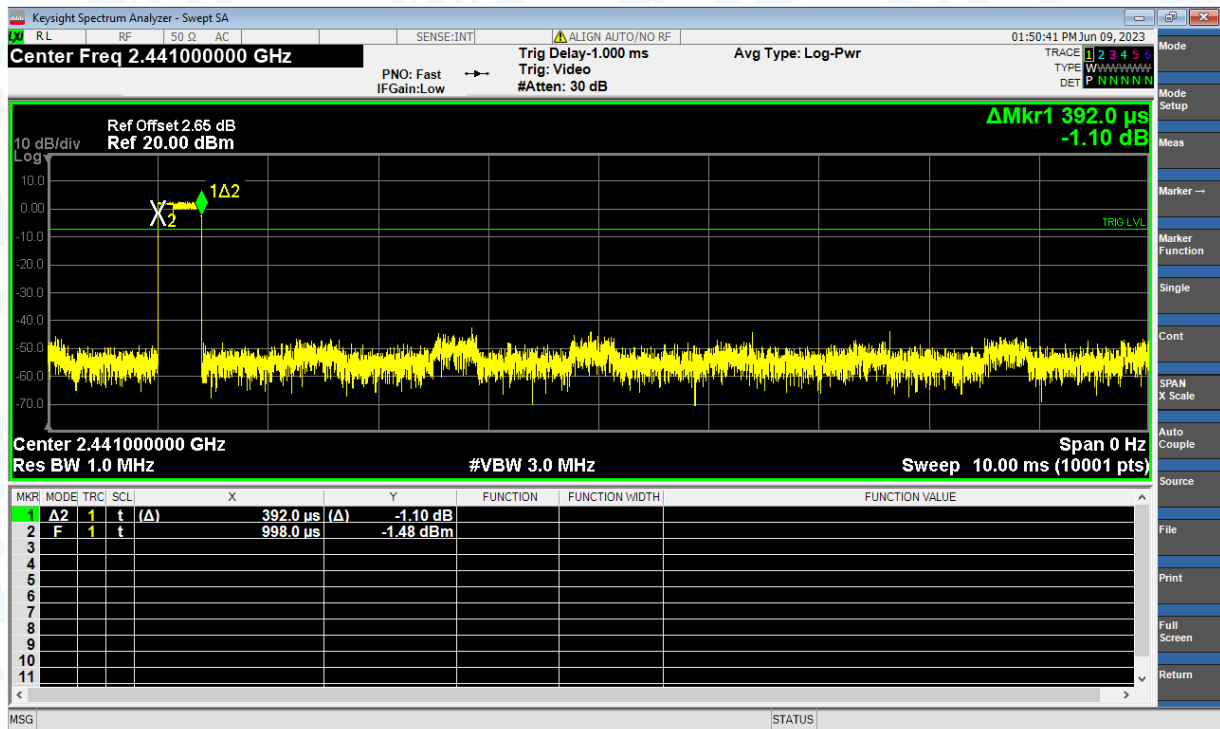
Dwell NVNT 1-DH3 2441MHz Ant1



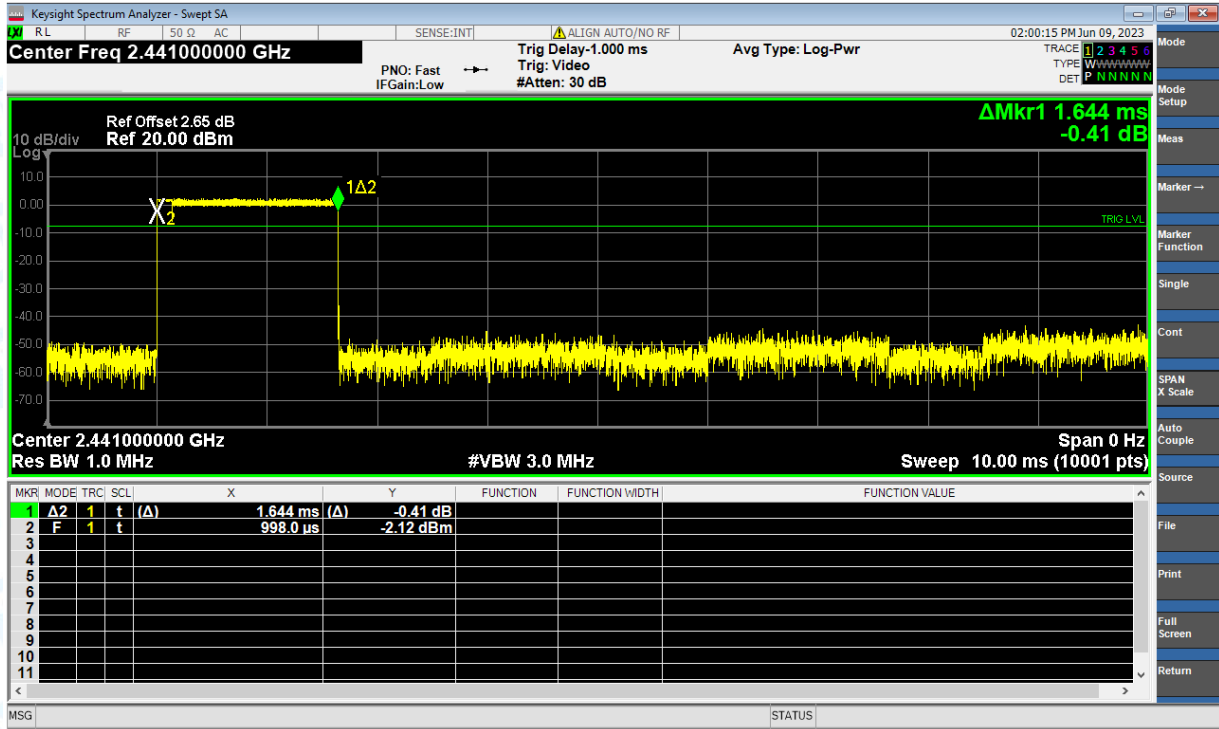
Dwell NVNT 1-DH5 2441MHz Ant1



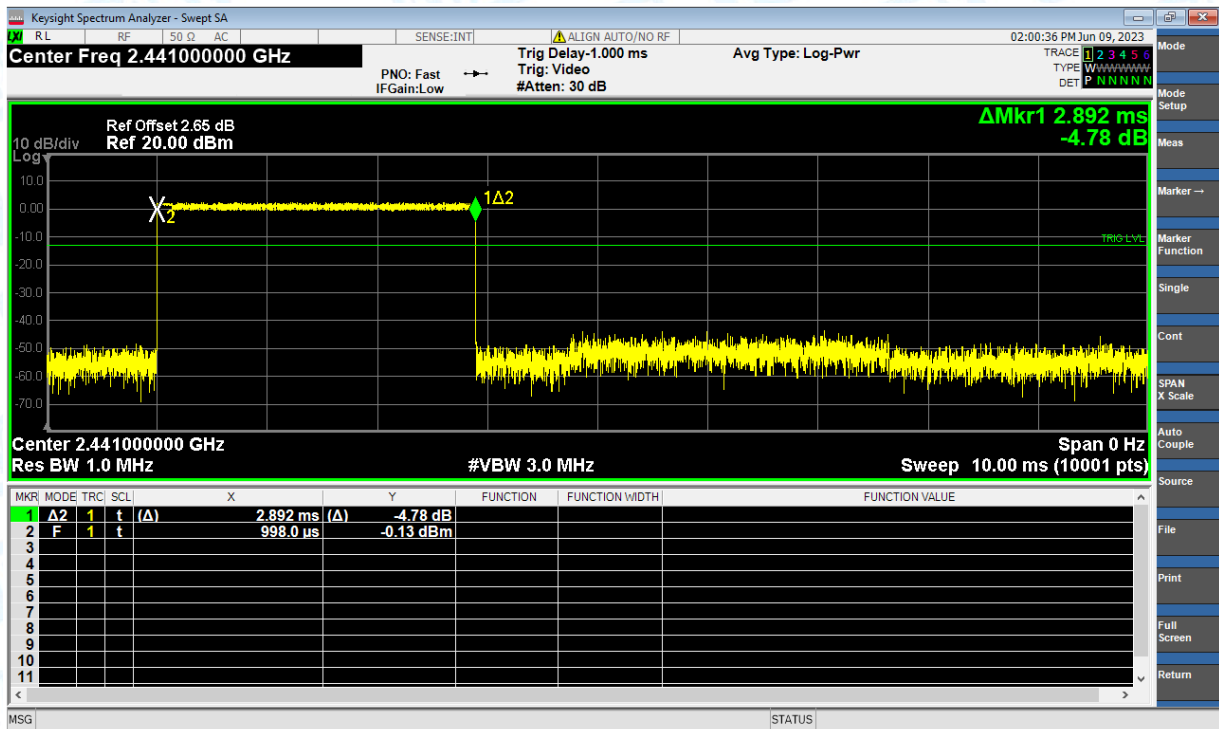
Dwell NVNT 2-DH1 2441MHz Ant1



Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



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