



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PORTABLE VIDEO PROJECTOR

Test Model: PJ505W-THD

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.964	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.949	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.961	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass

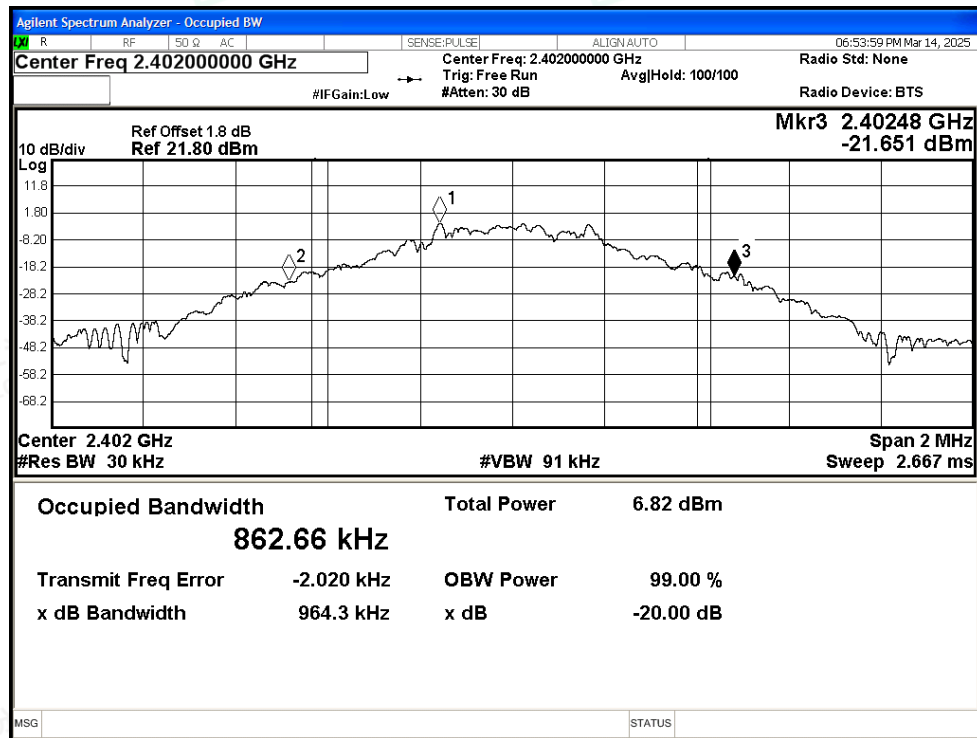


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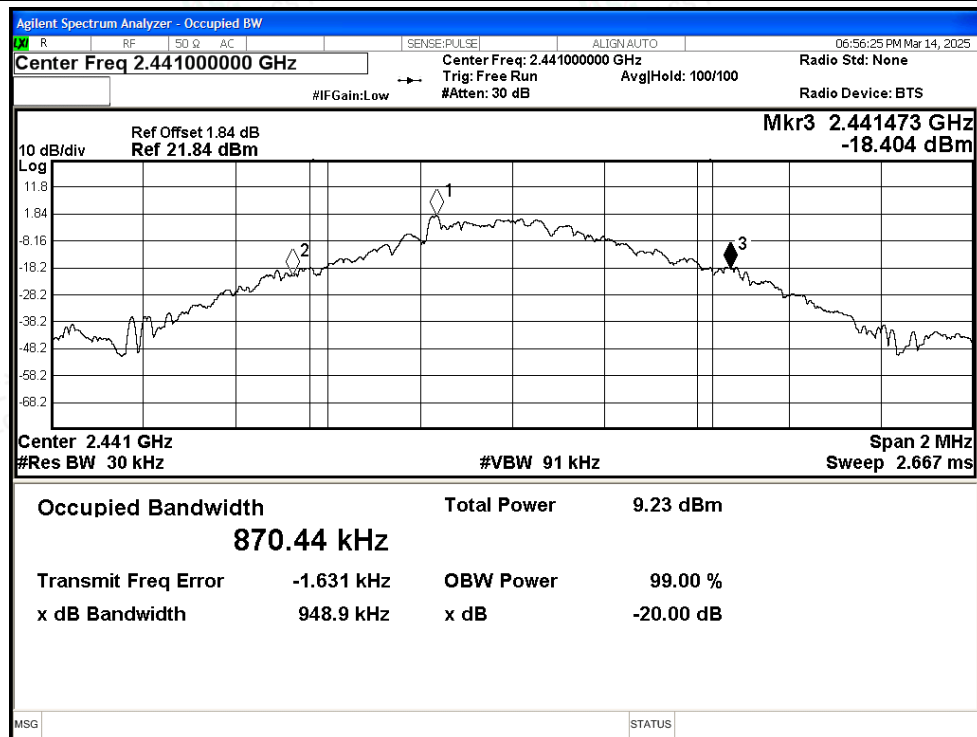


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

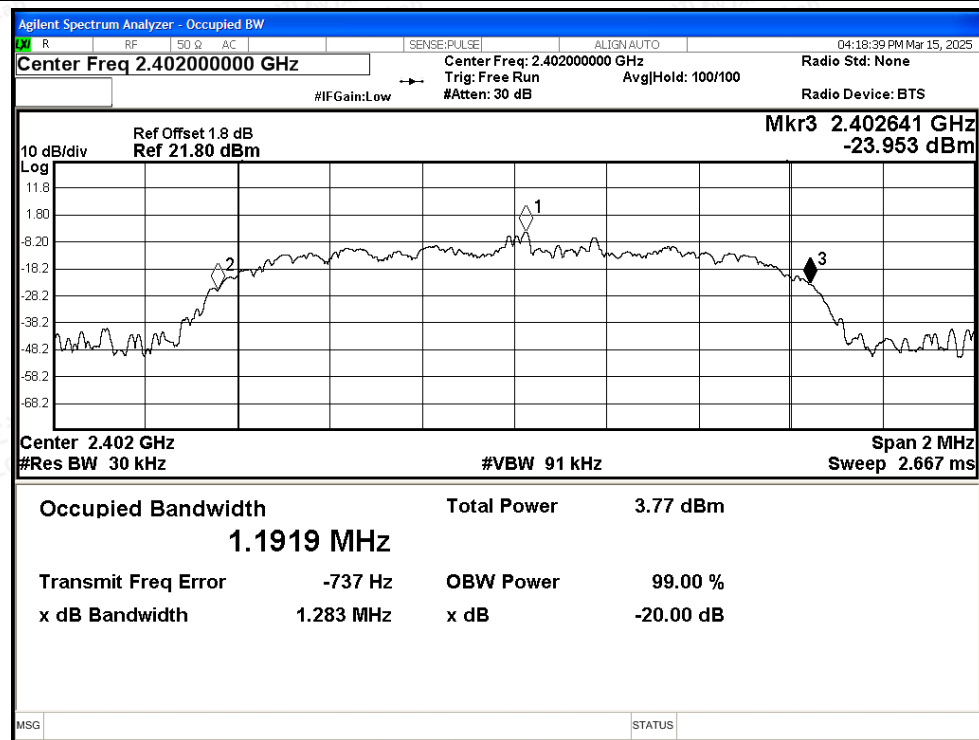




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

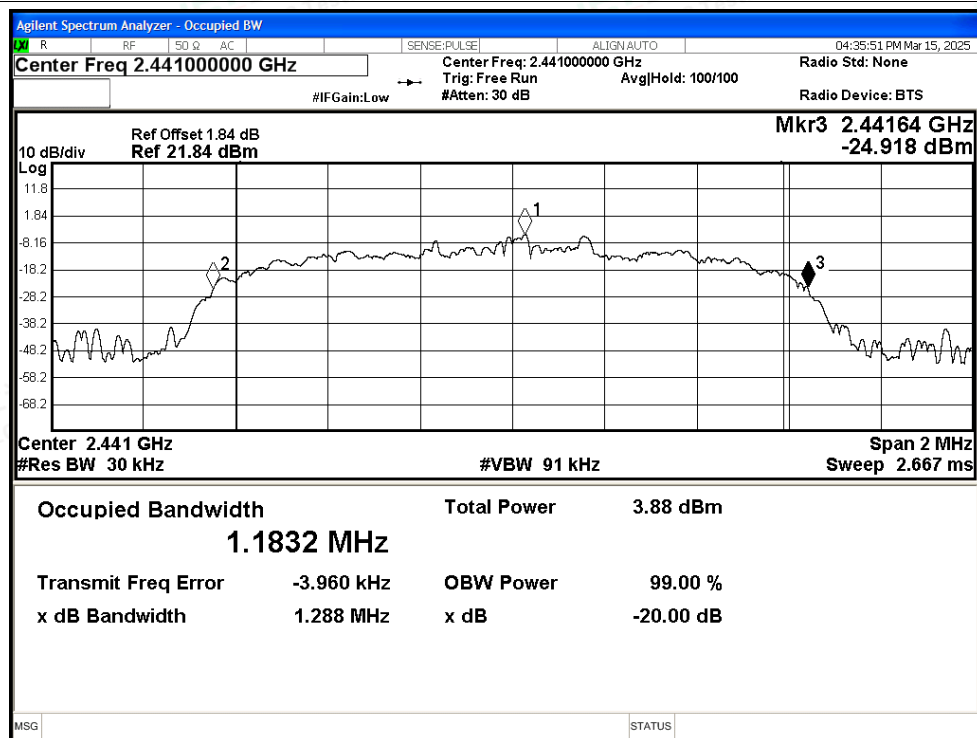


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

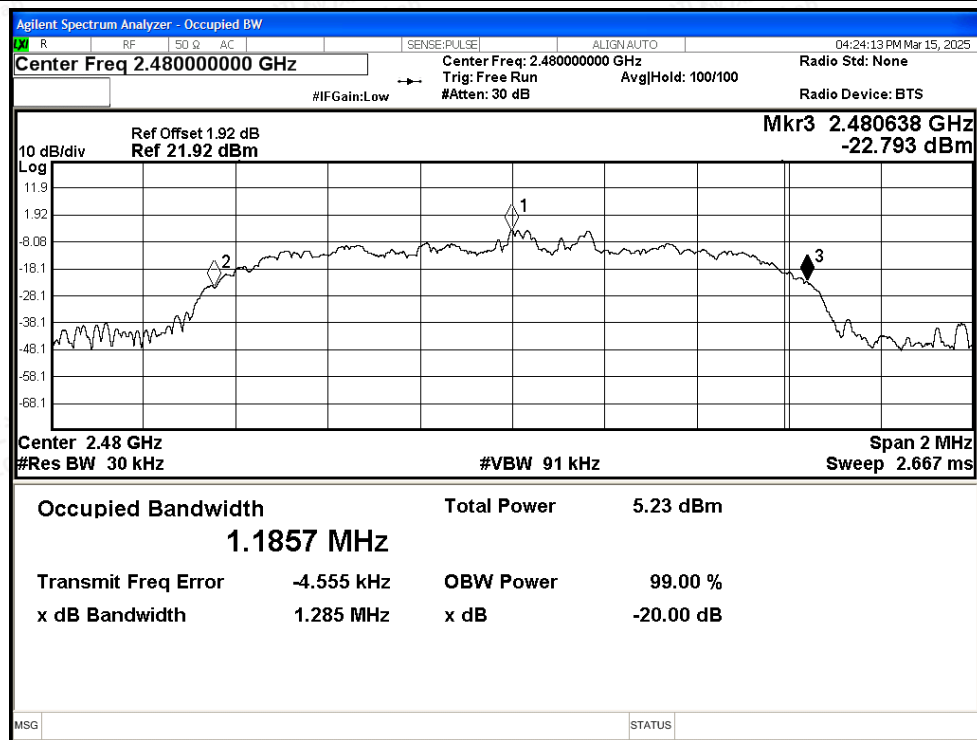




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.39	0	0.39	21	Pass
NVNT	1-DH5	2441	Ant1	2.89	0	2.89	21	Pass
NVNT	1-DH5	2480	Ant1	1.56	0	1.56	21	Pass
NVNT	2-DH5	2402	Ant1	-0.31	0	-0.31	21	Pass
NVNT	2-DH5	2441	Ant1	-0.62	0	-0.62	21	Pass
NVNT	2-DH5	2480	Ant1	0.82	0	0.82	21	Pass

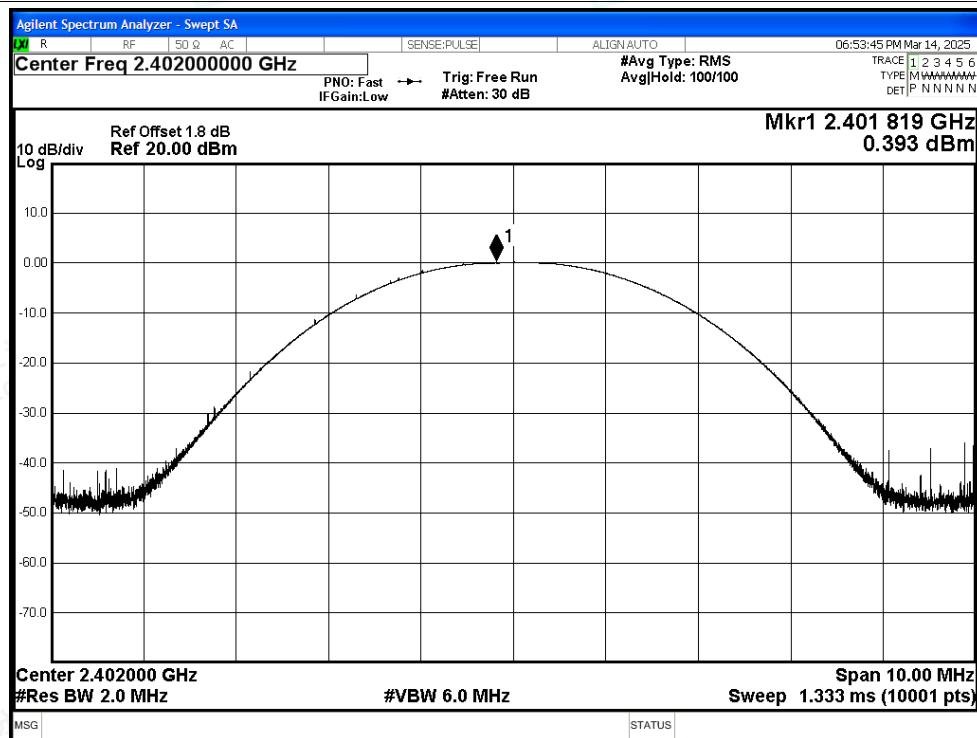


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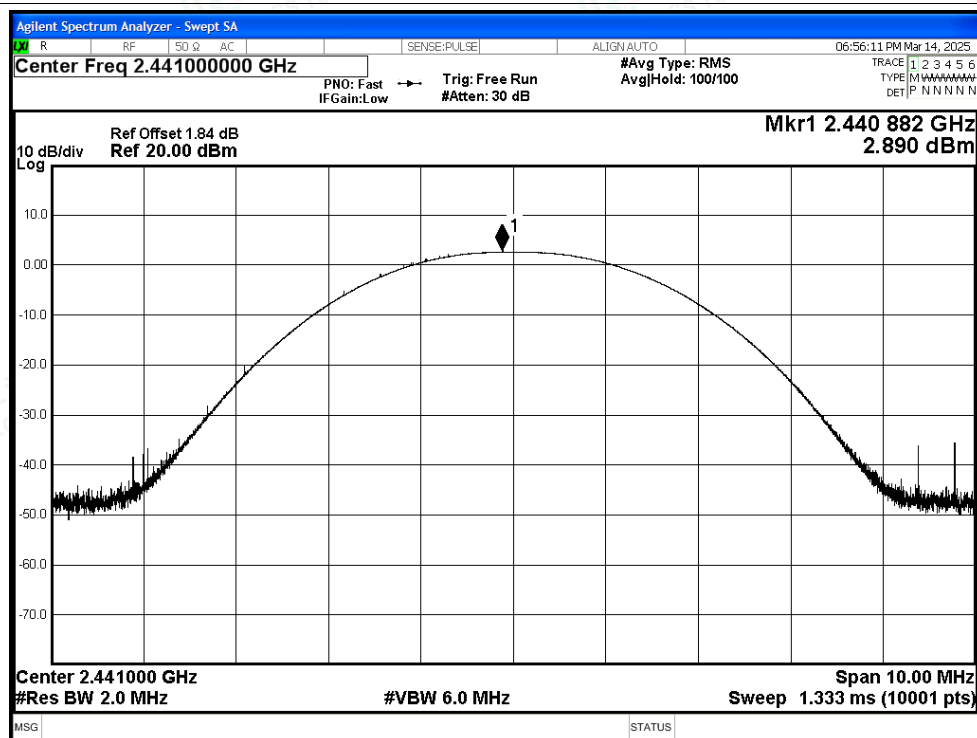


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

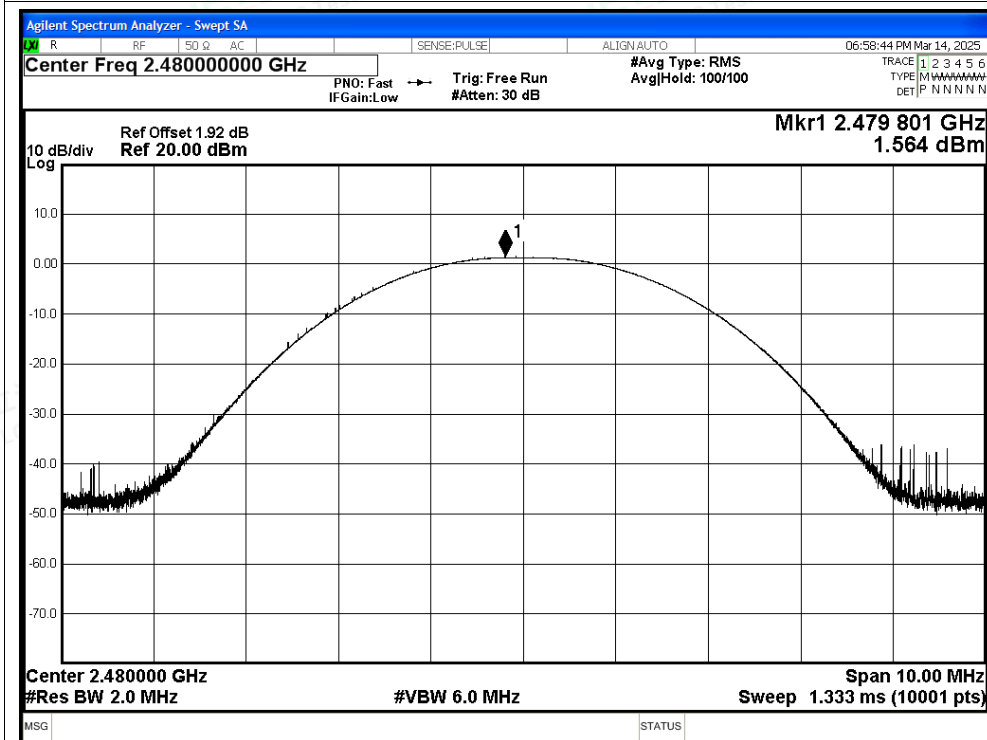


Power NVNT 1-DH5 2441MHz Ant1

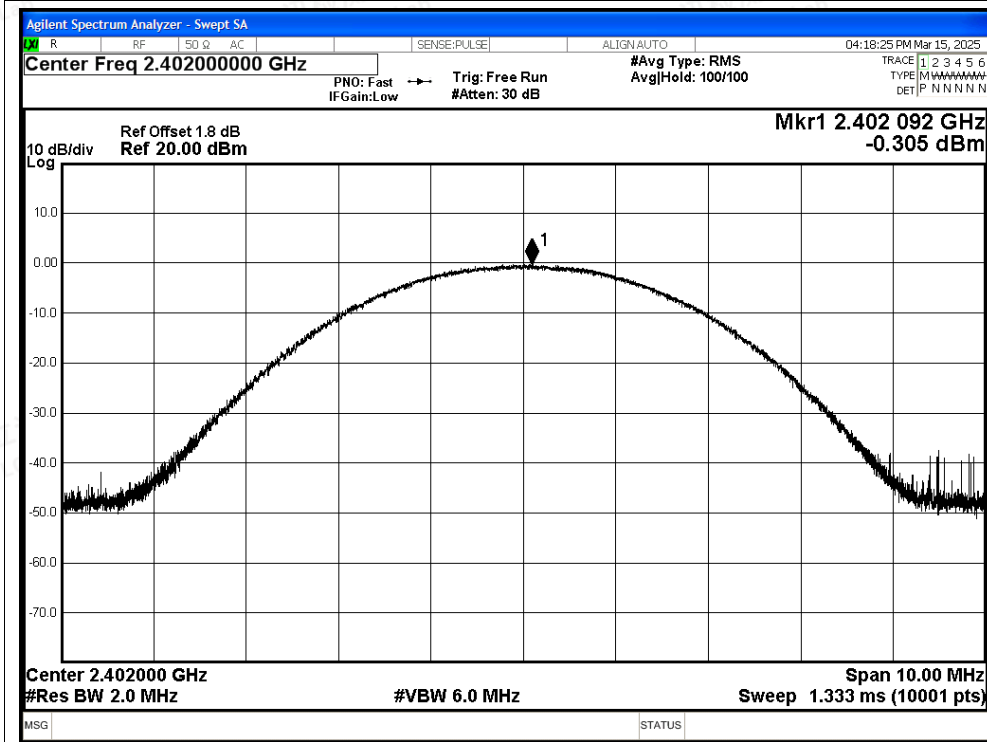




Power NVNT 1-DH5 2480MHz Ant1

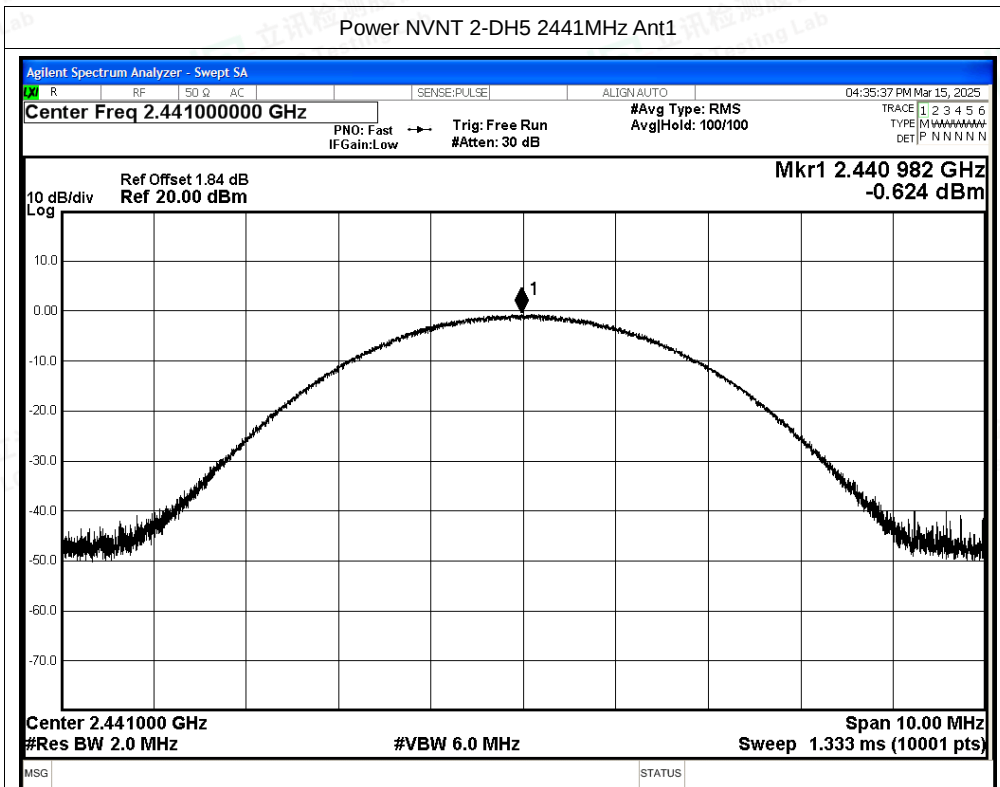


Power NVNT 2-DH5 2402MHz Ant1

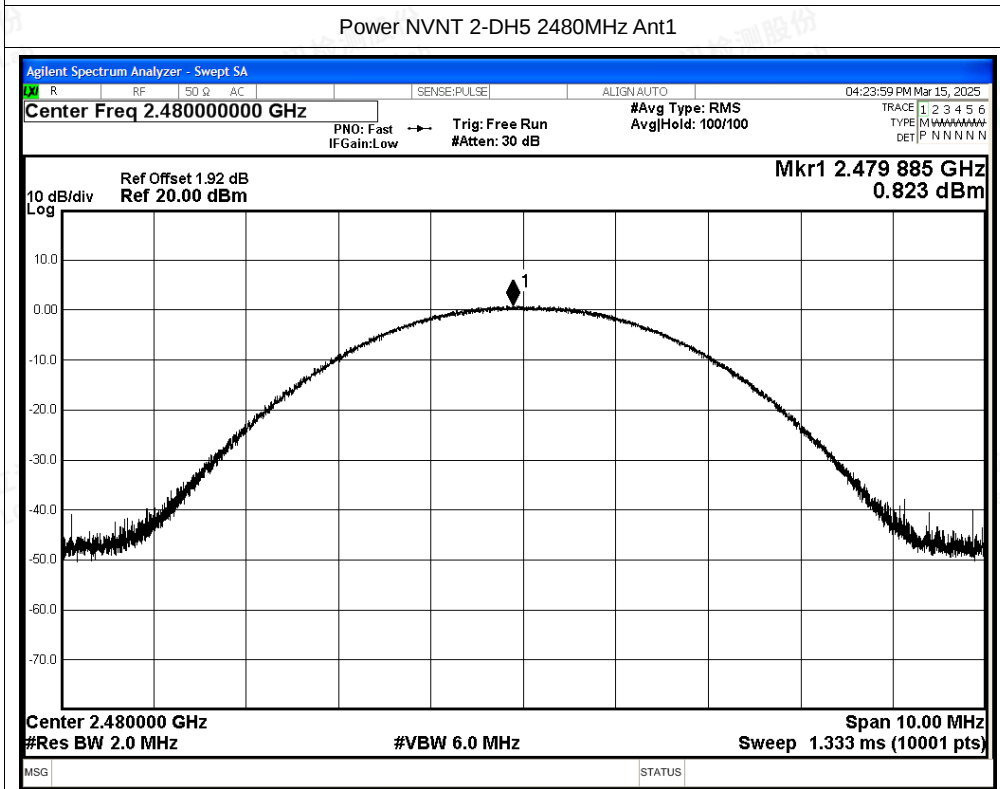




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.01	2403.02	1.01	0.025	Pass
NVNT	2-DH5	Ant1	2402.018	2403.002	0.984	0.855	Pass

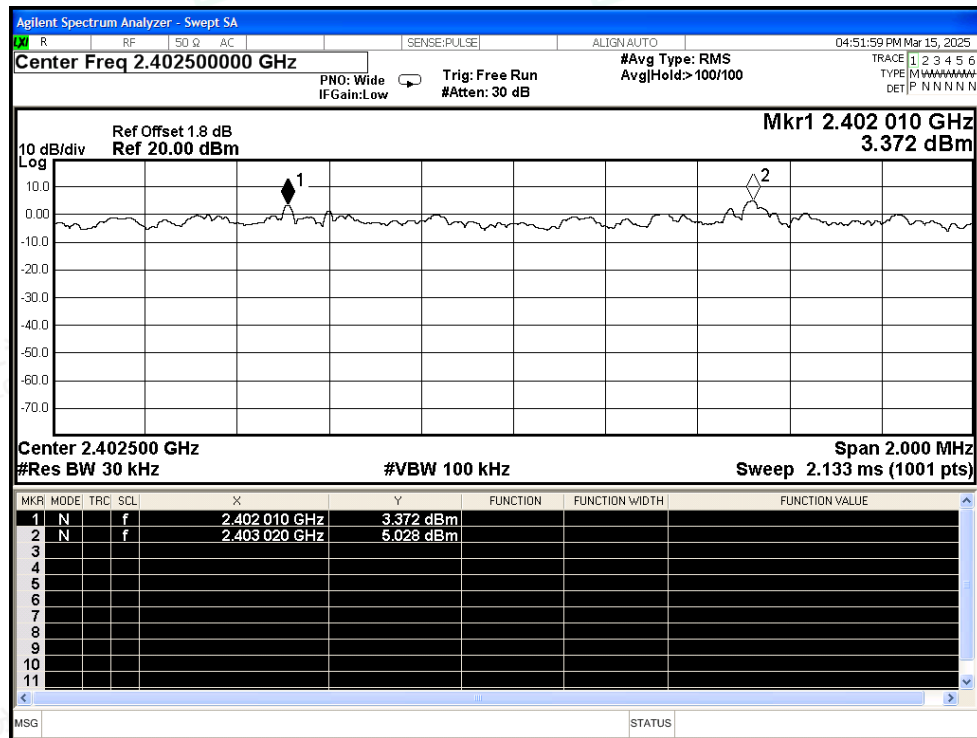


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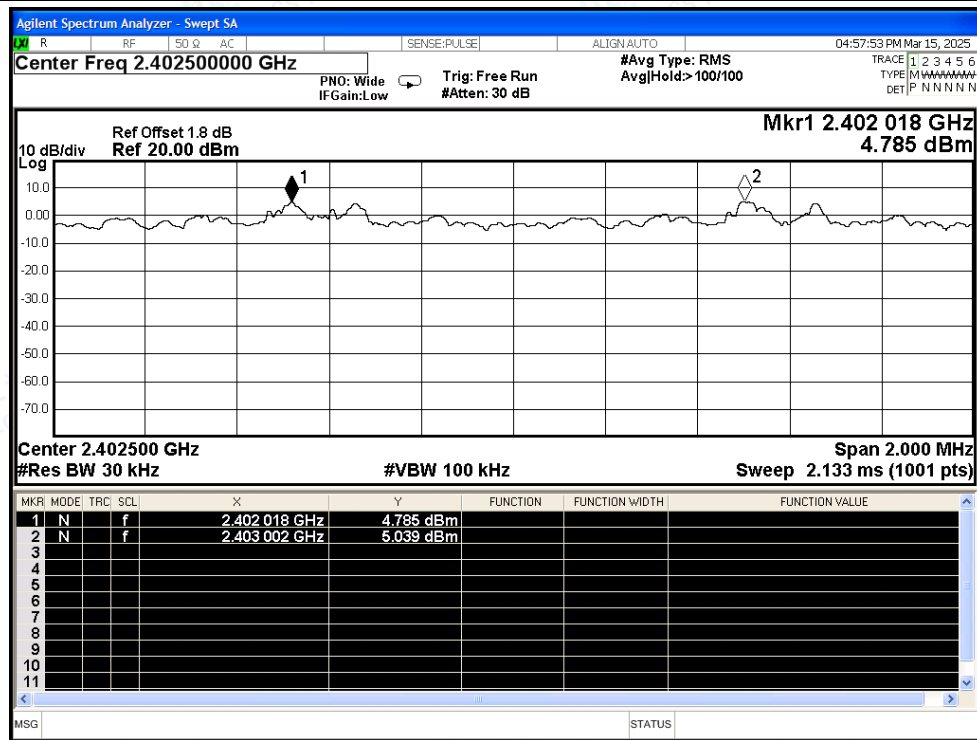


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.898	286.902	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	289.8	100	31600	400	Pass

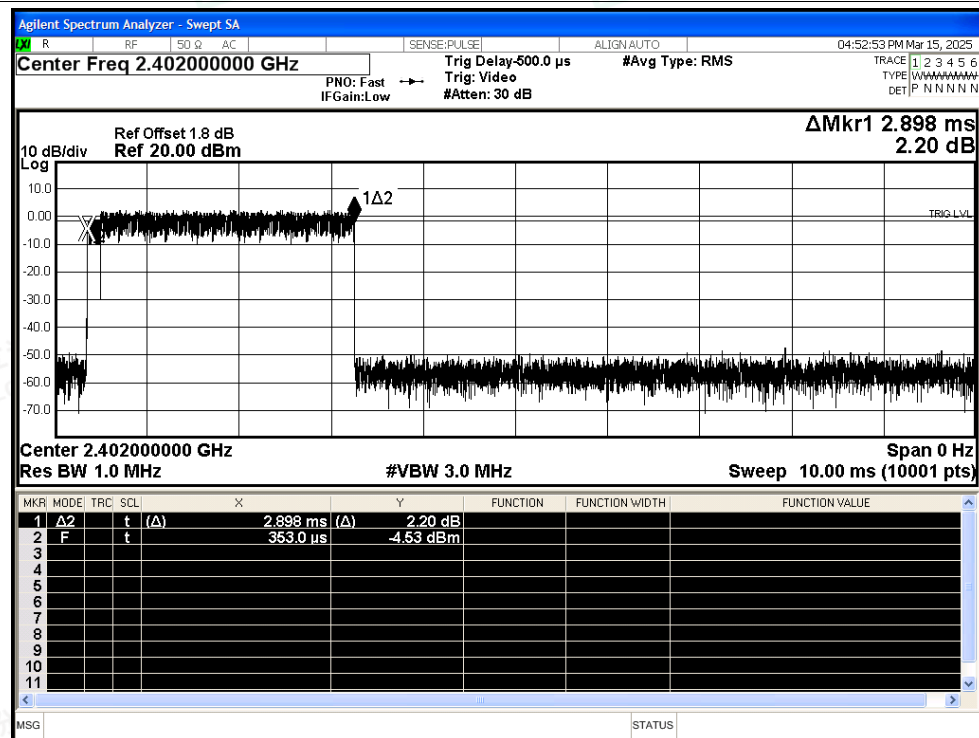


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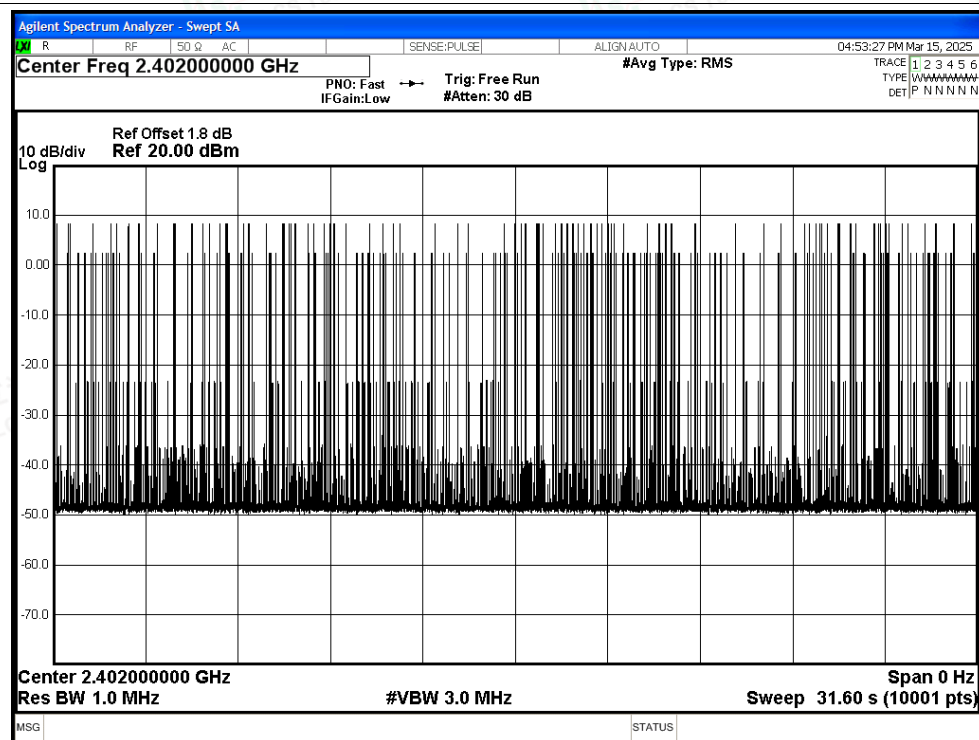


Test Graphs

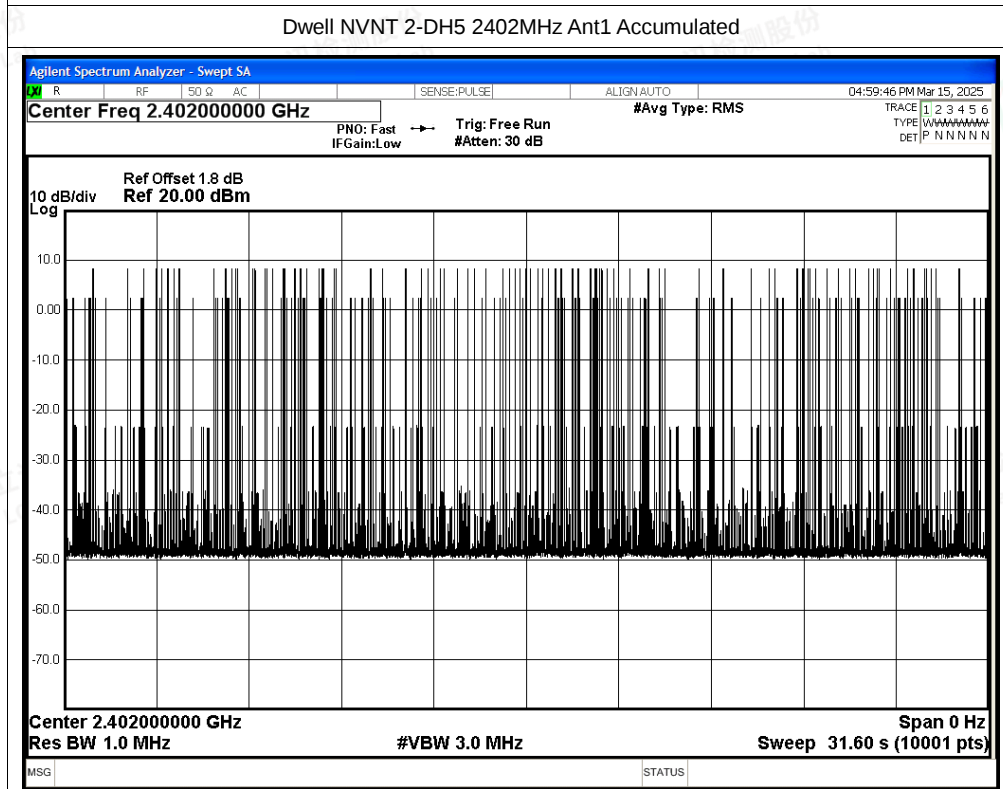
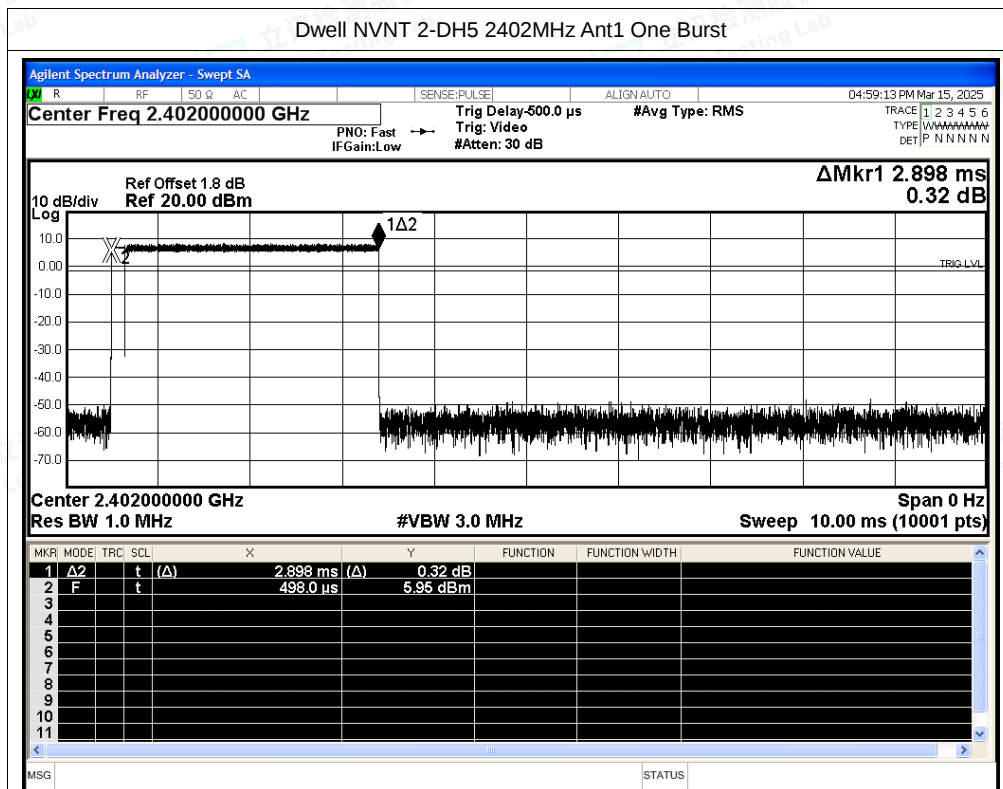
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass

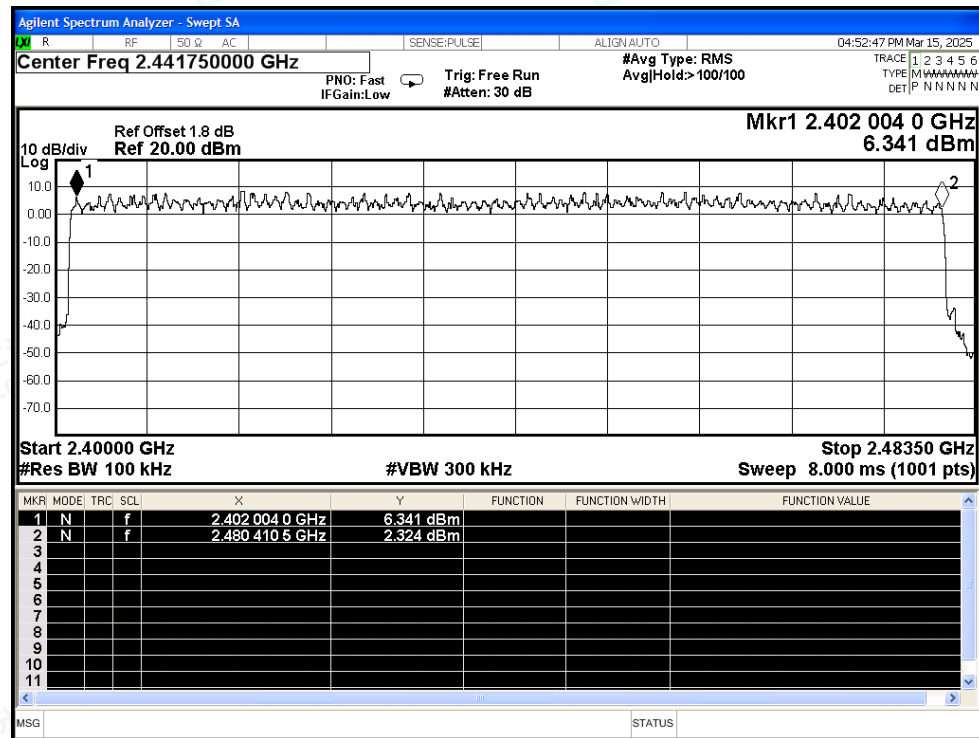


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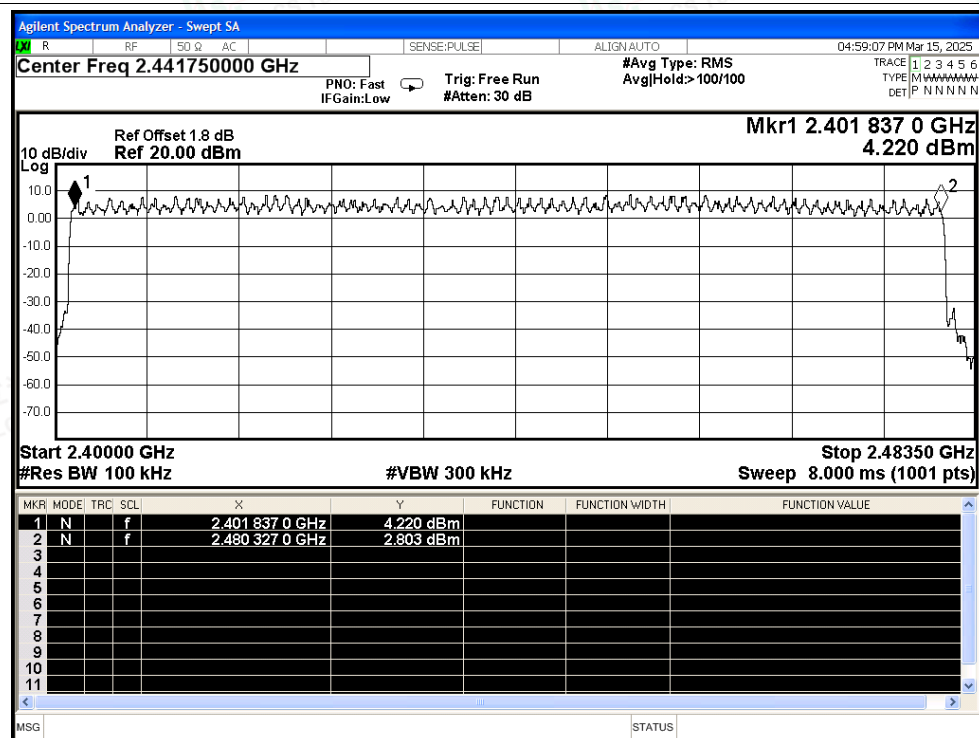


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.27	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.6	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.89	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.81	-20	Pass

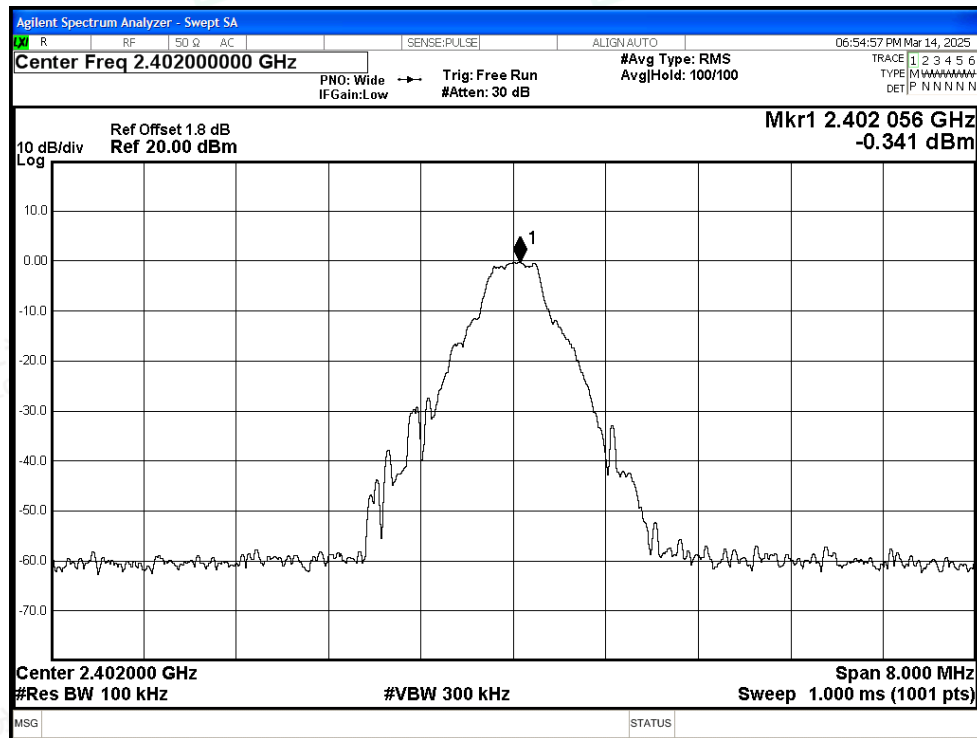


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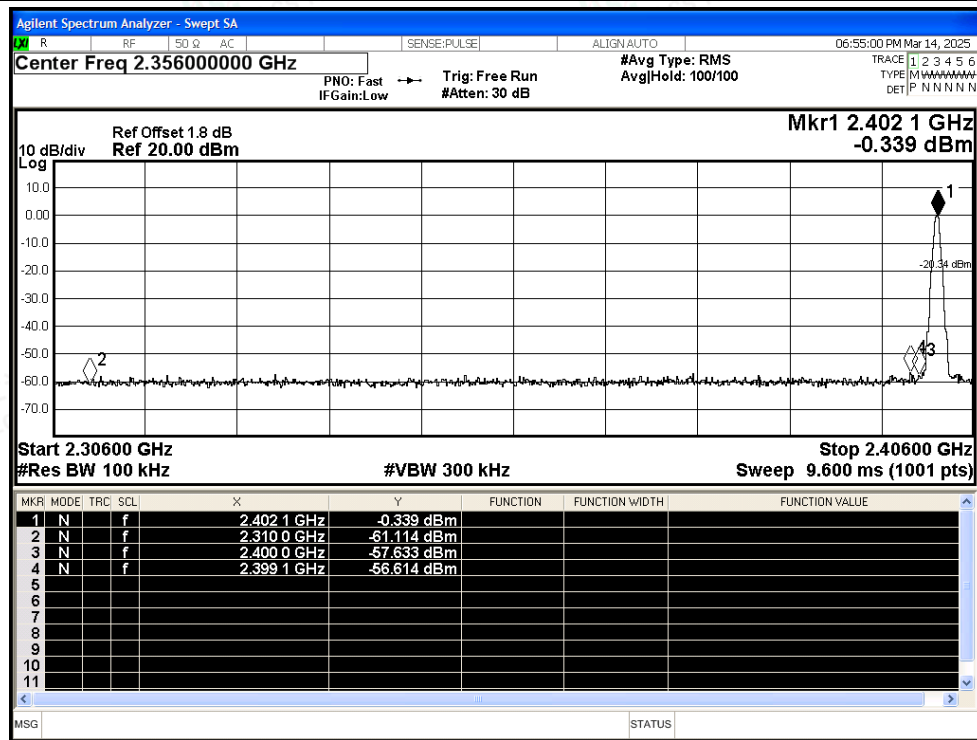


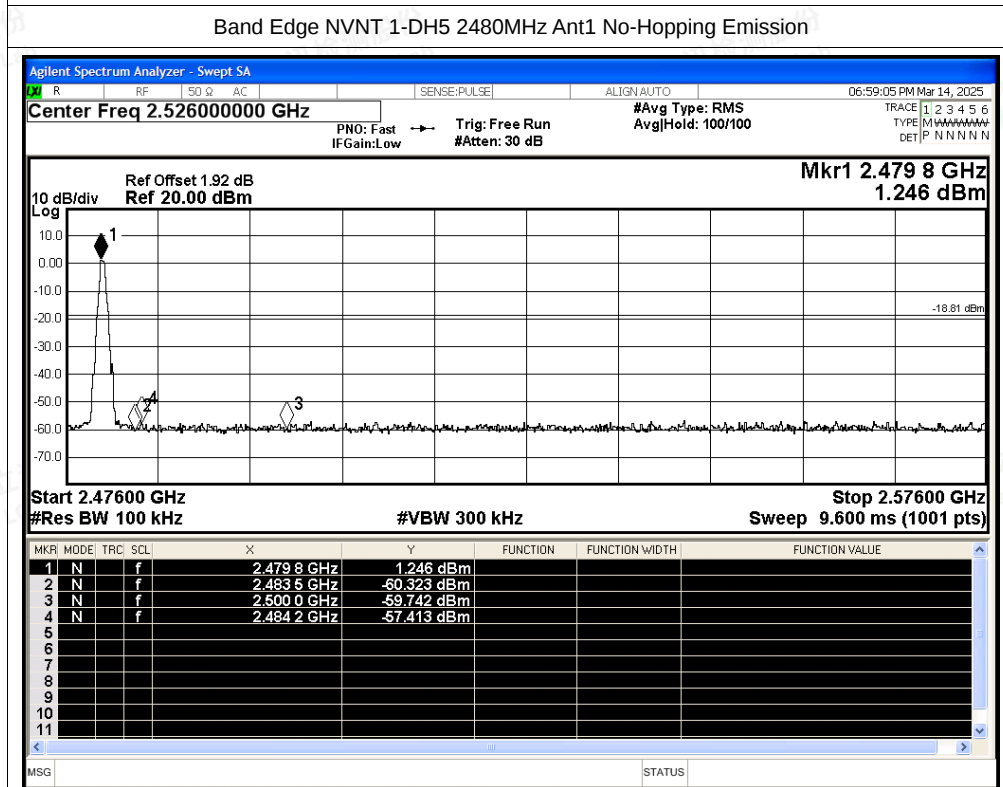
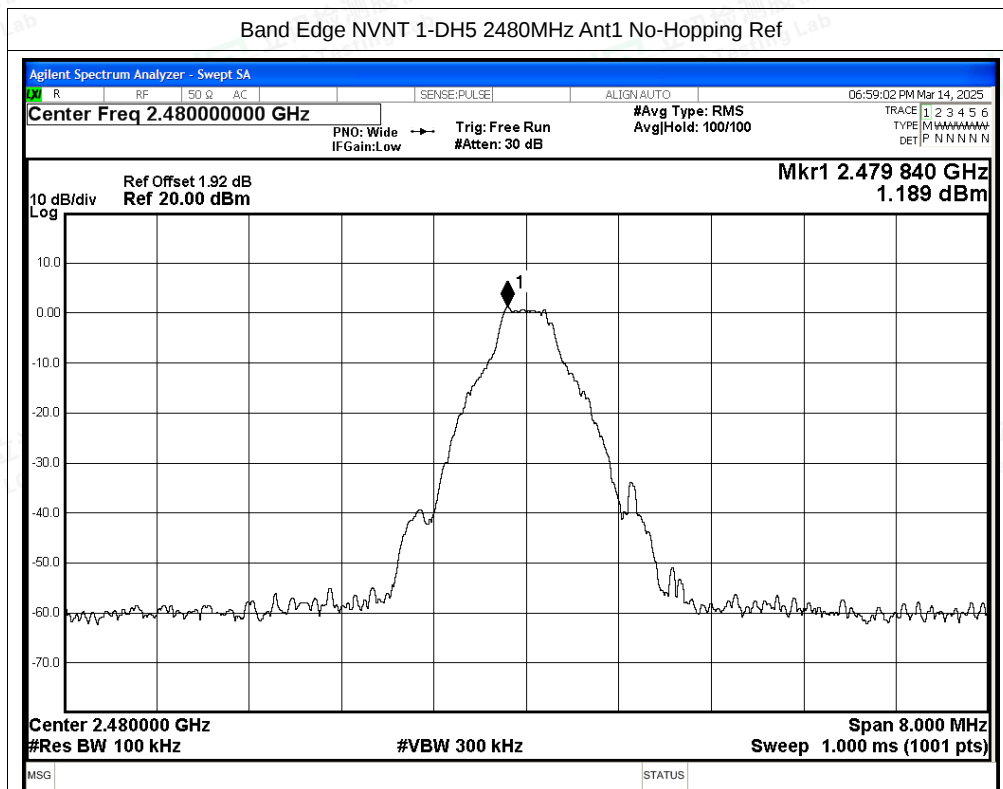
Test Graphs

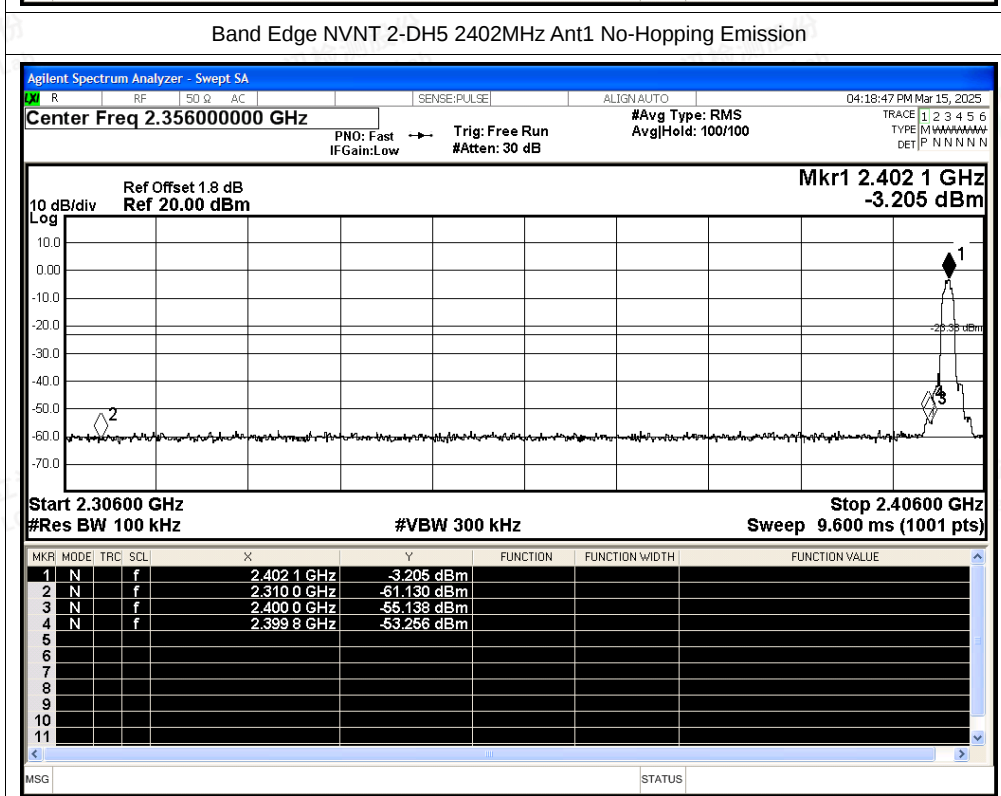
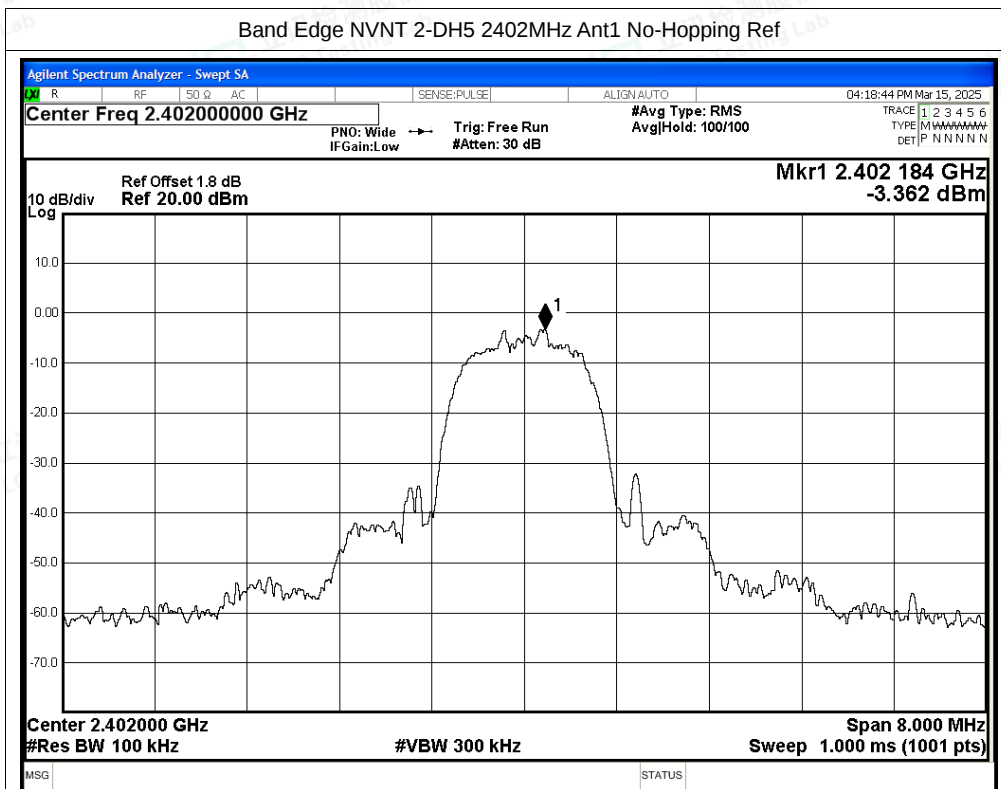
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

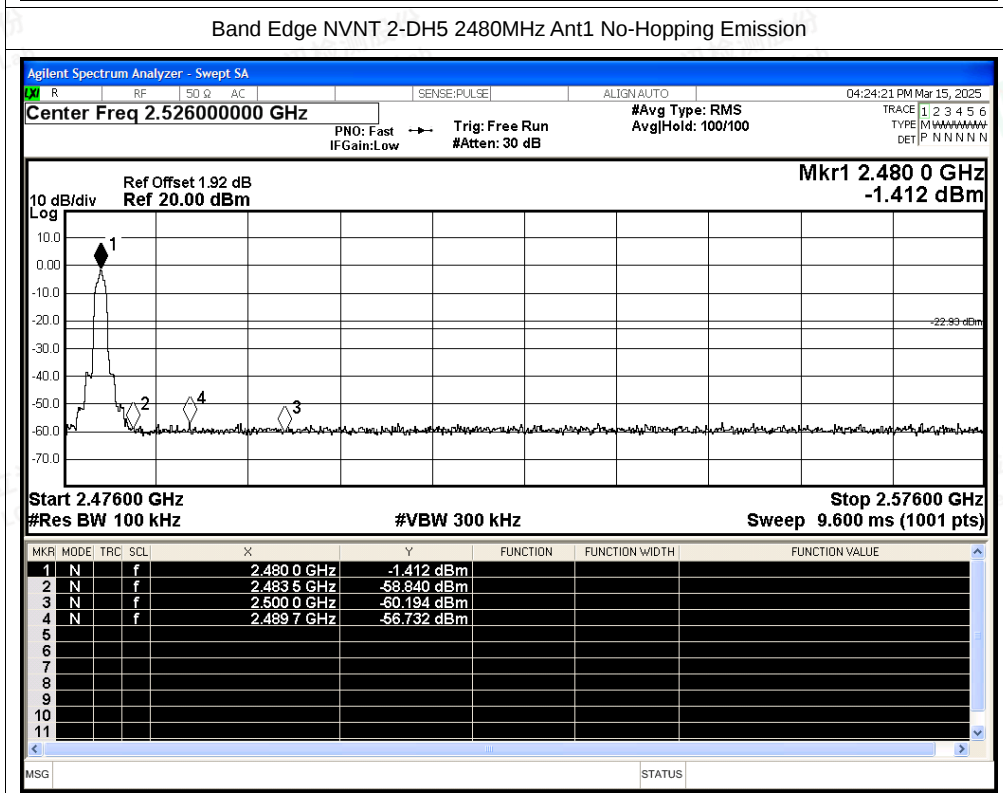
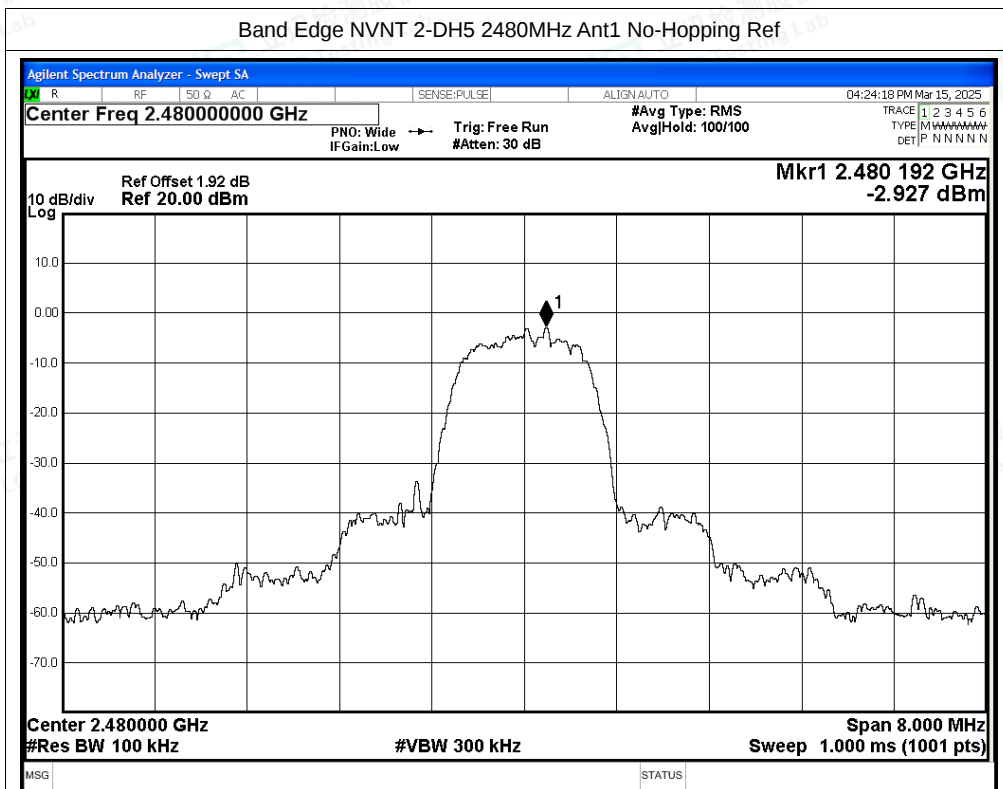


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission











(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-63.09	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.41	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-62.74	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.85	-20	Pass



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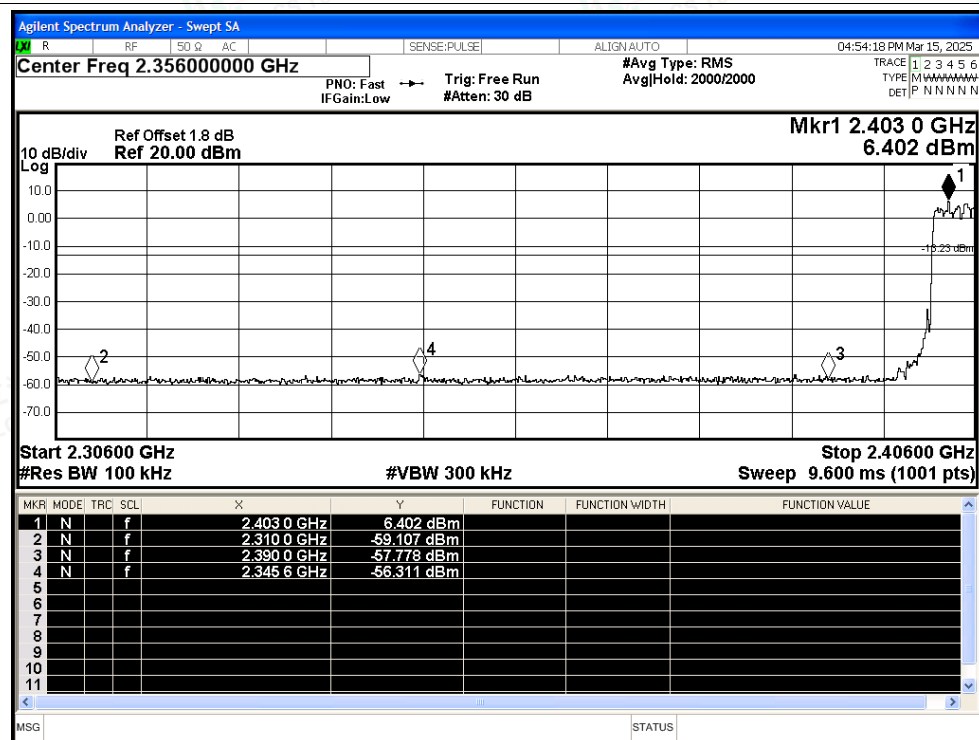


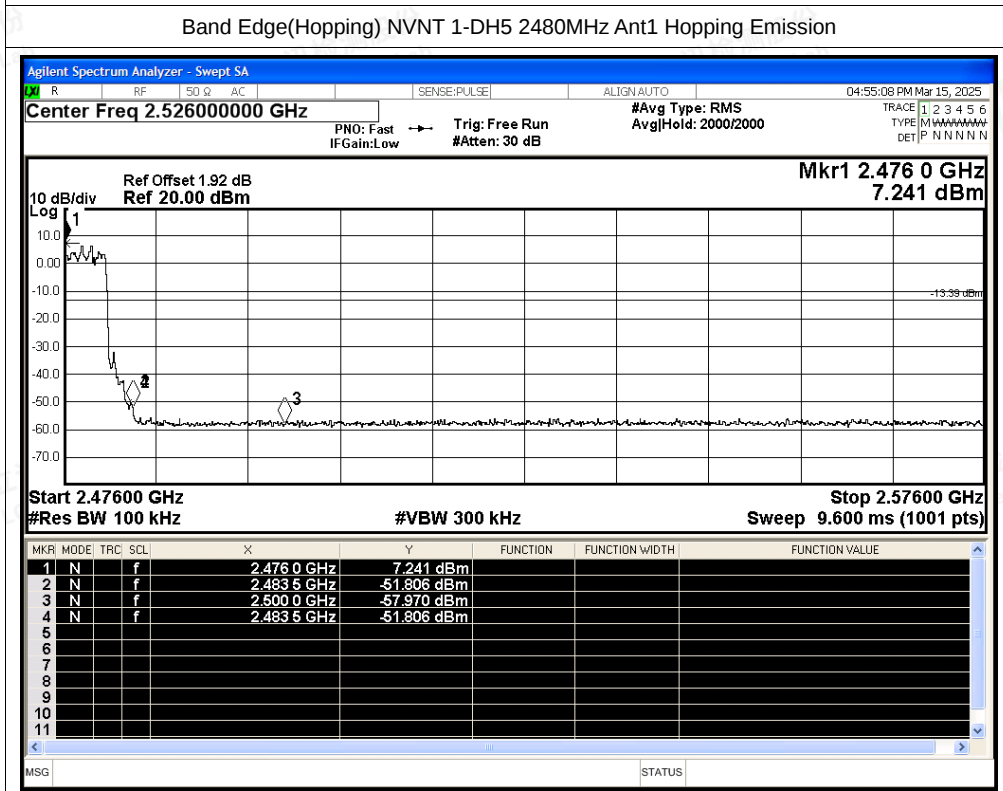
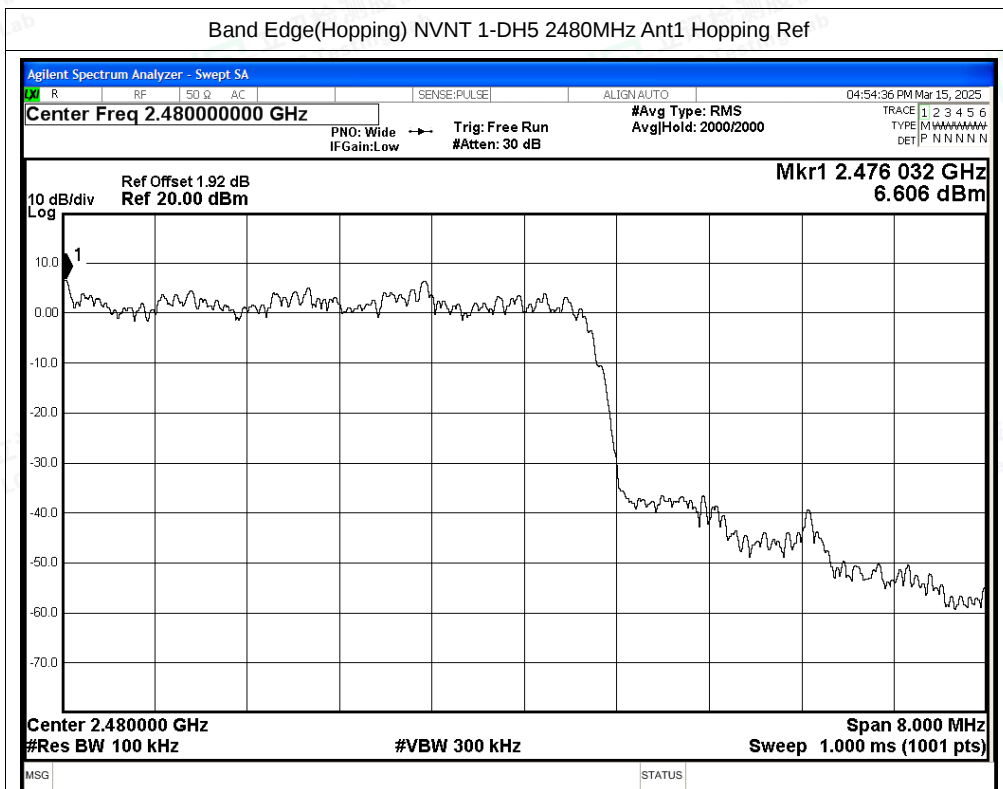
Test Graphs

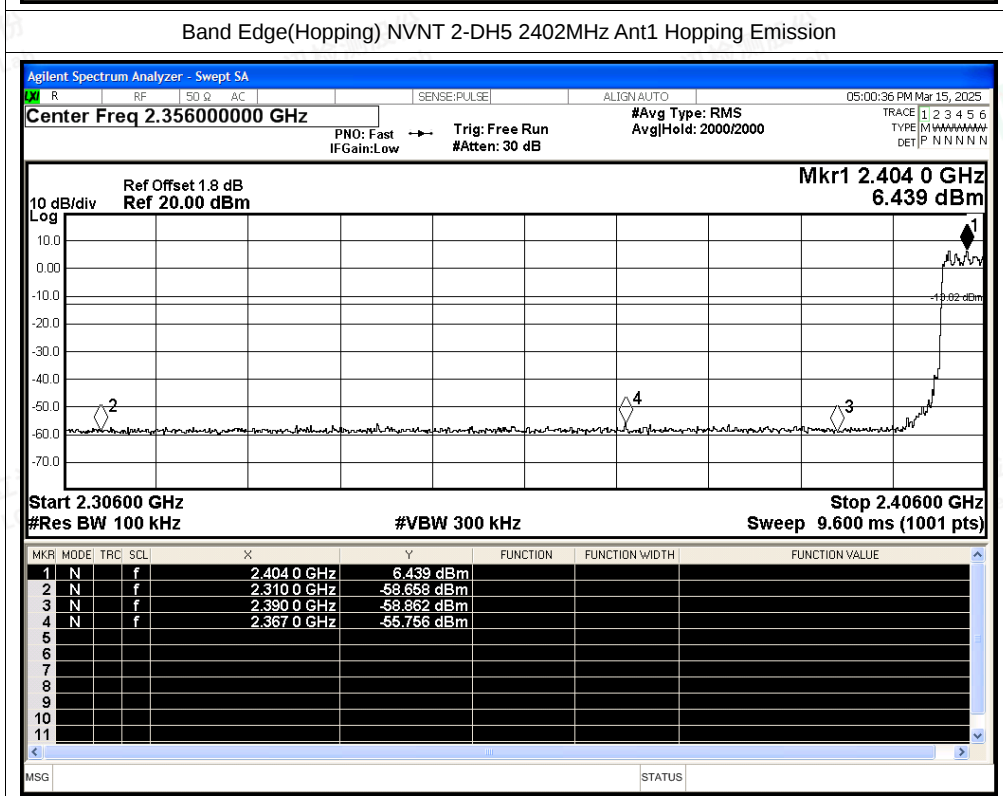
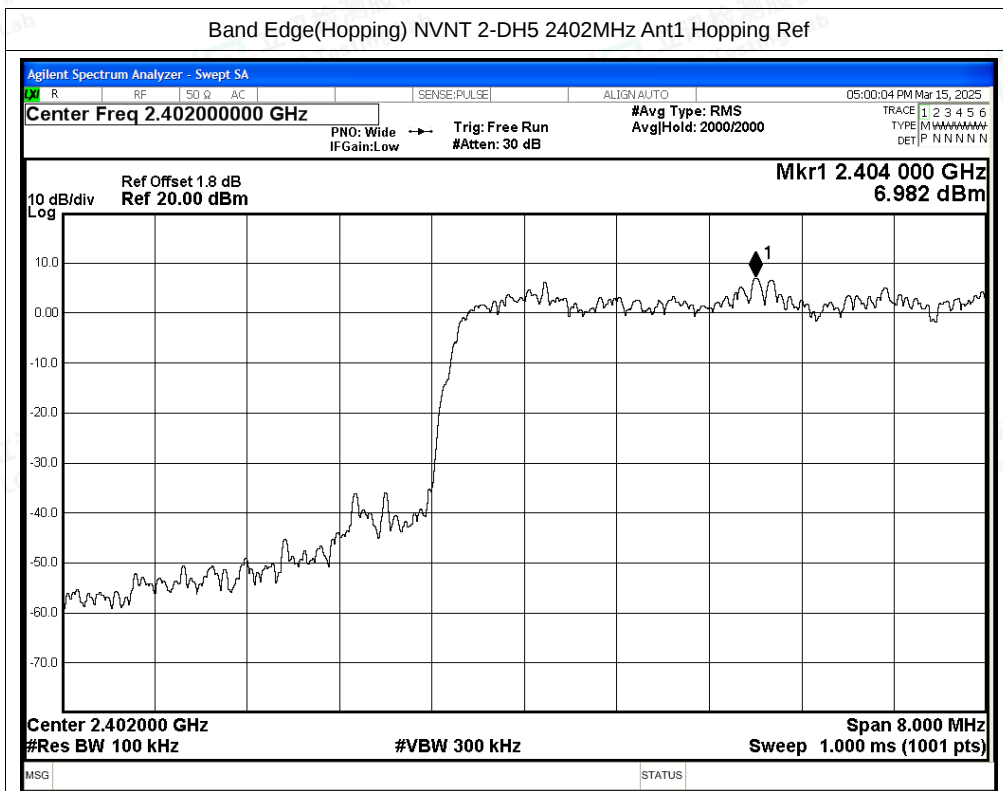
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

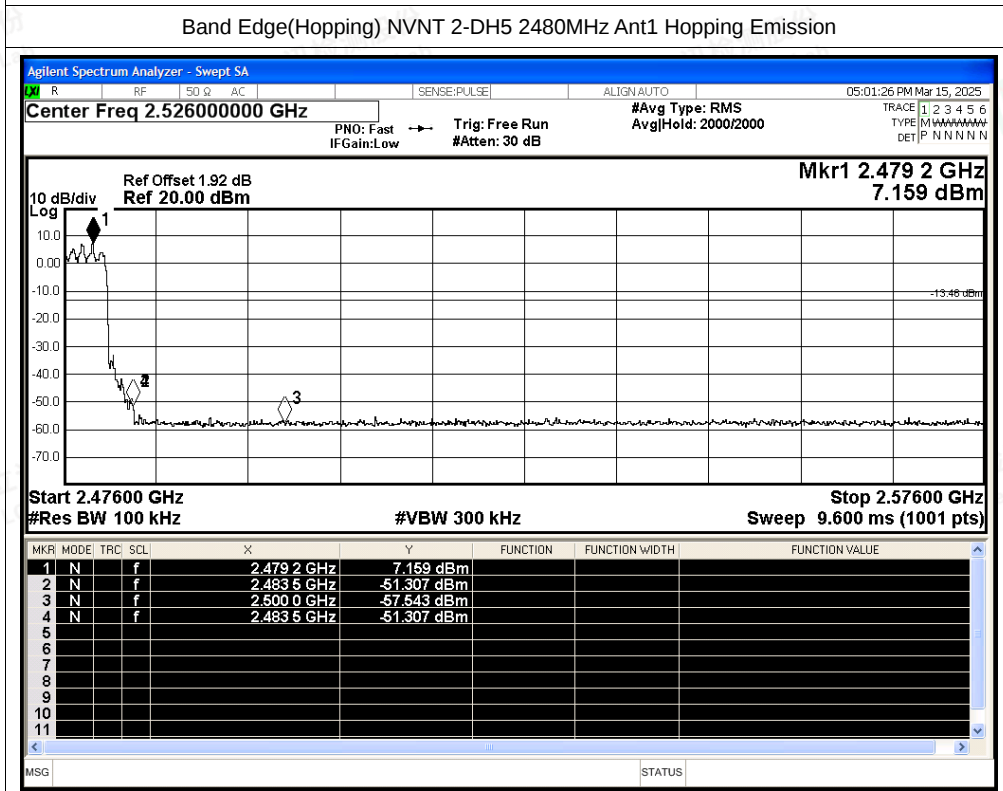
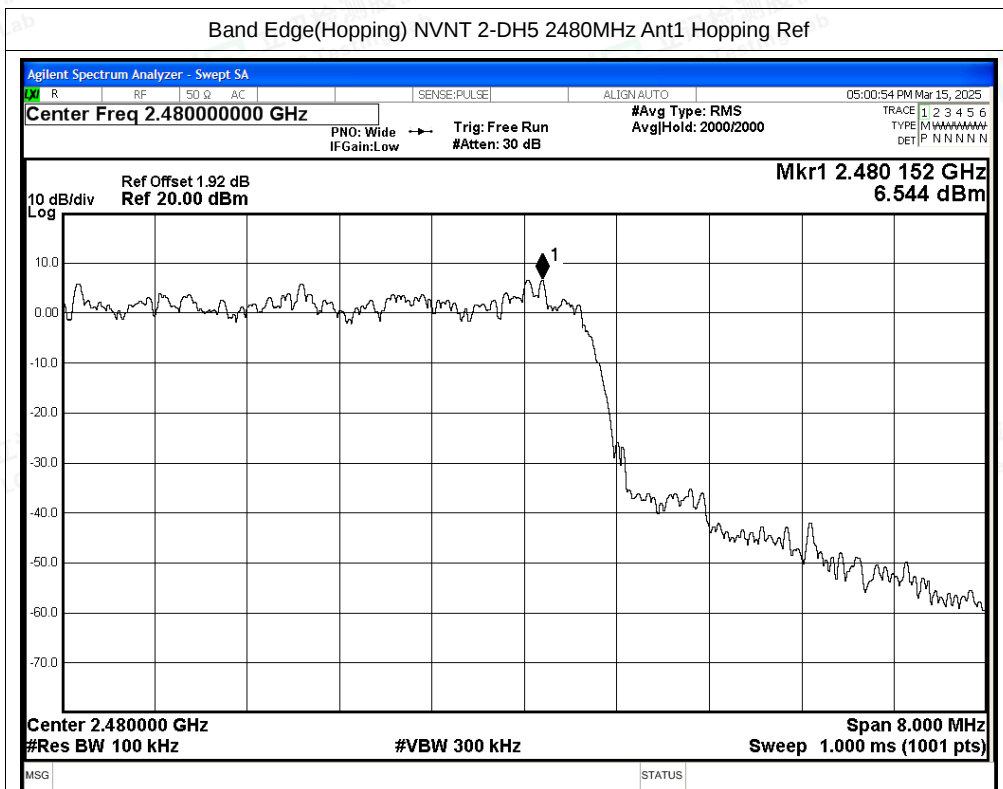


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission











A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.02	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.39	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.26	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.7	-20	Pass

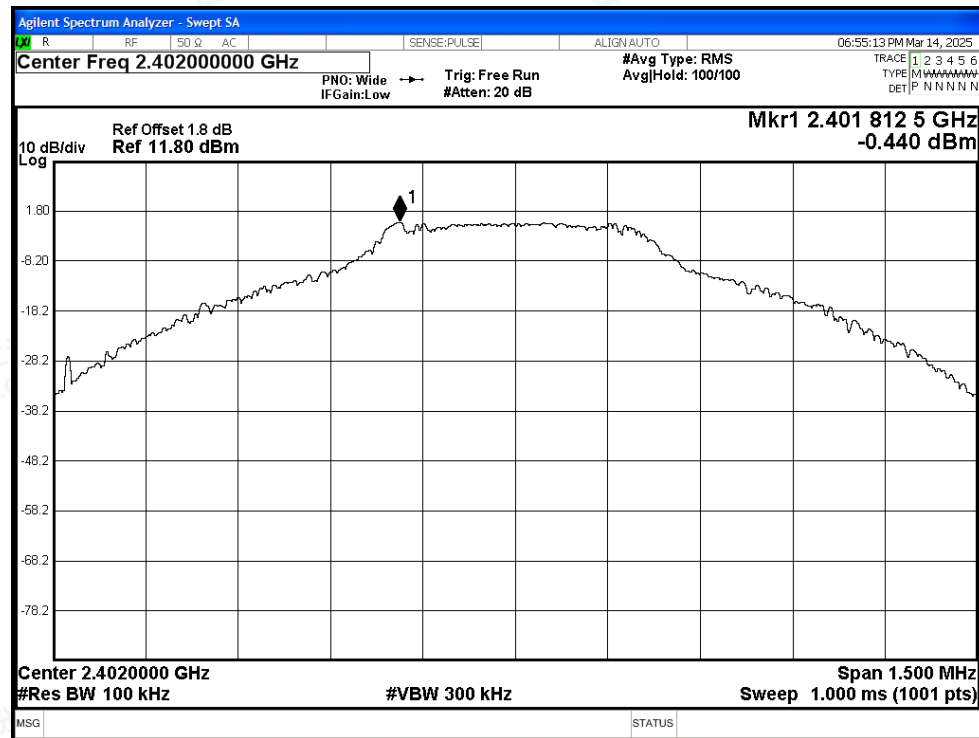


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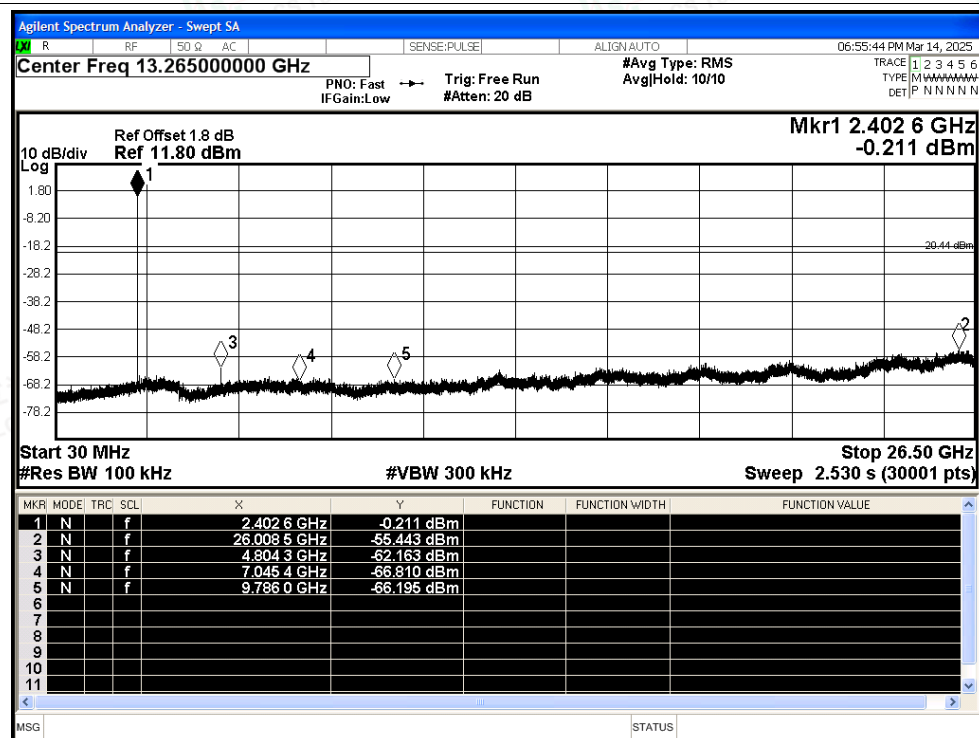


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



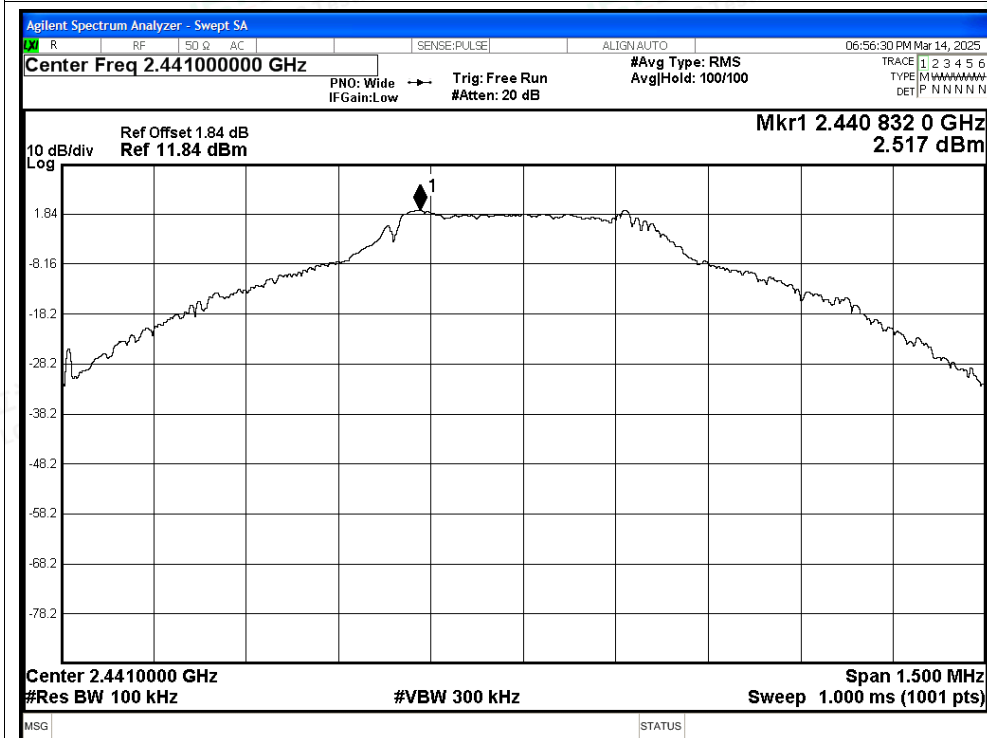
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



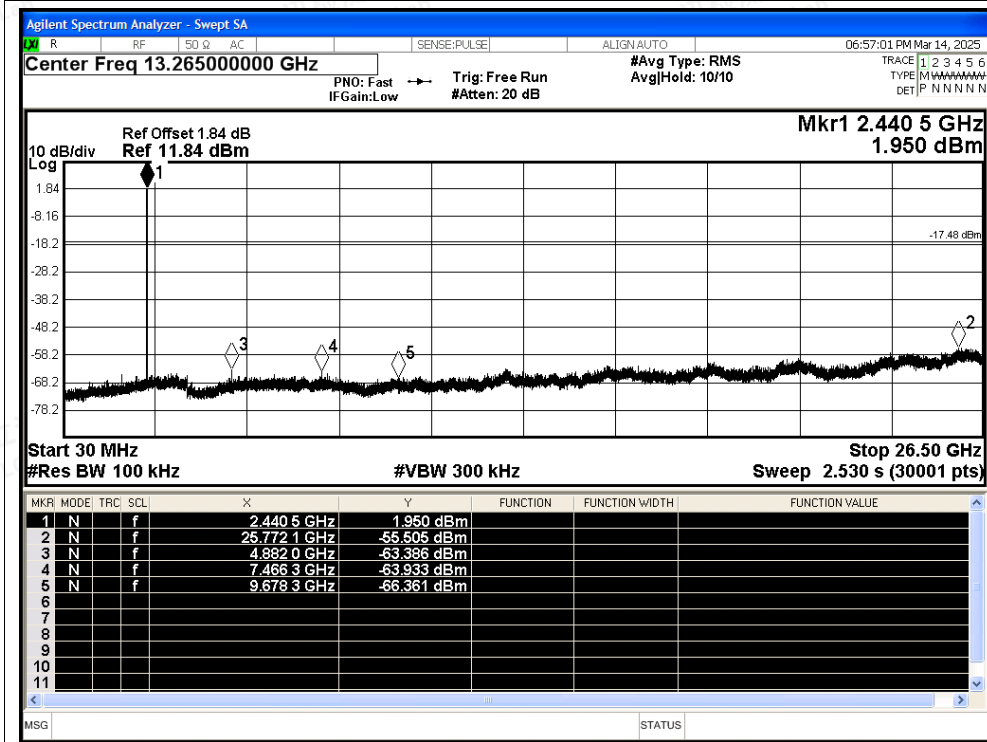
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



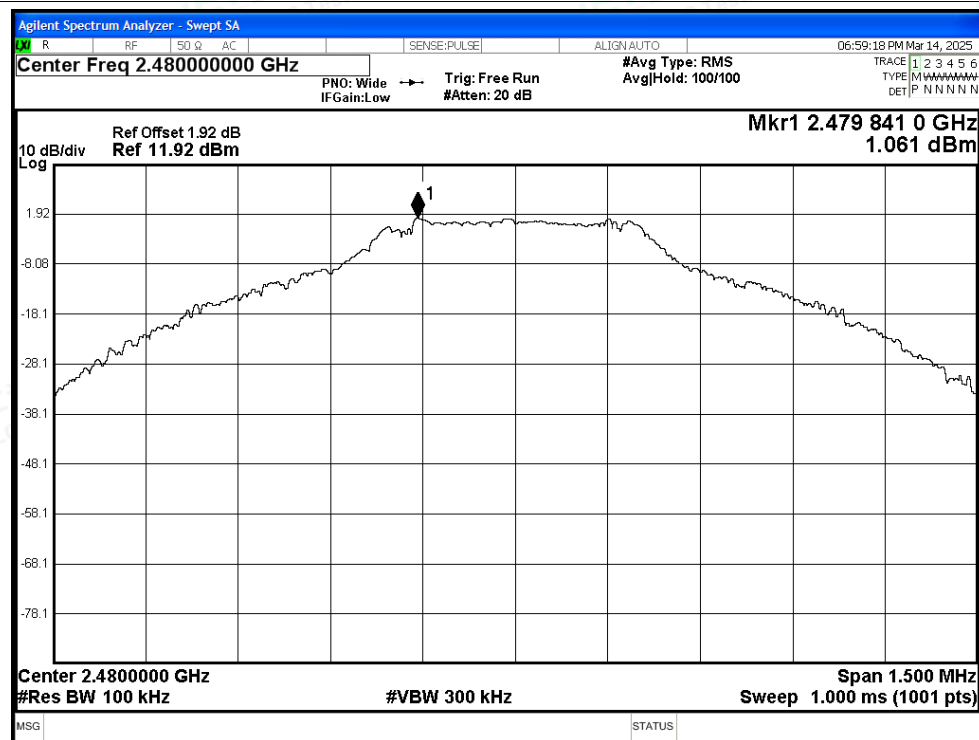
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



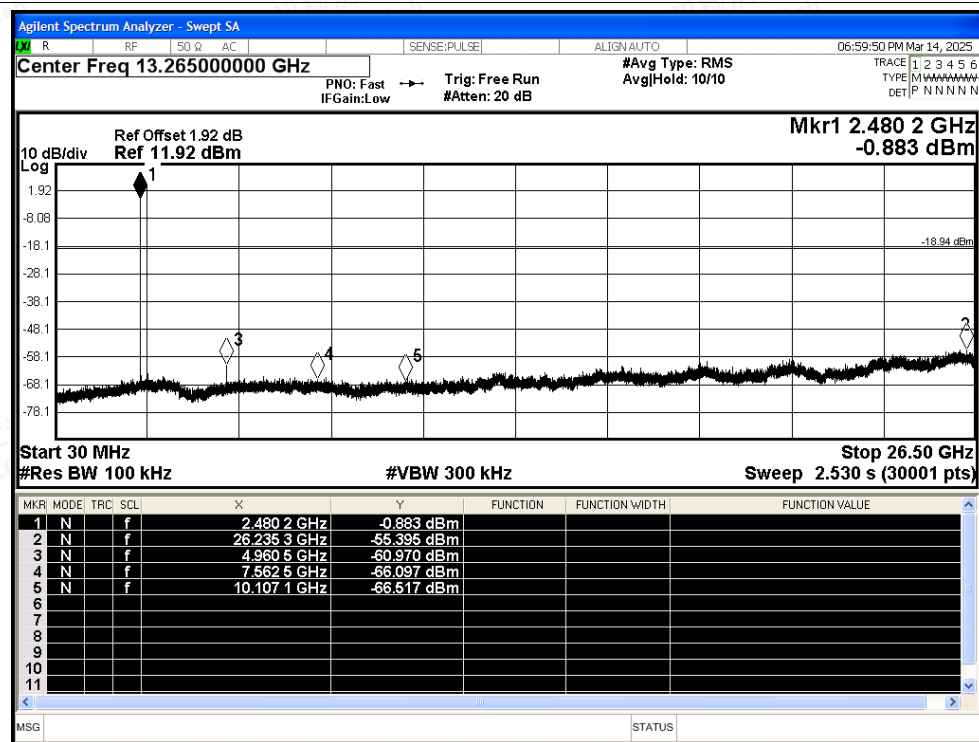
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

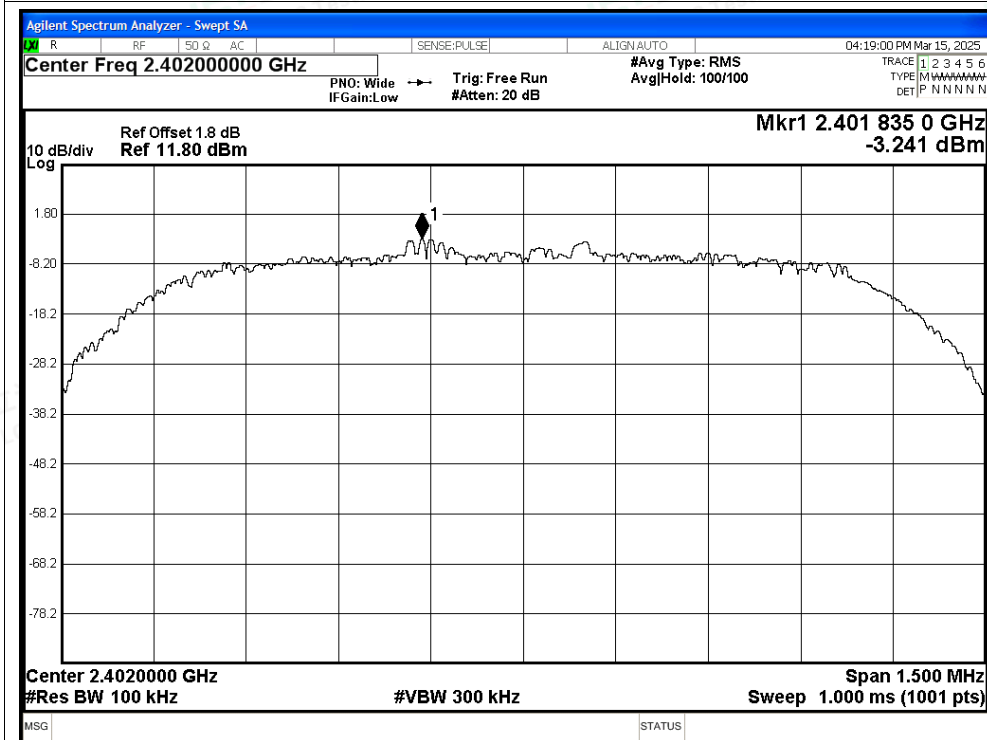


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

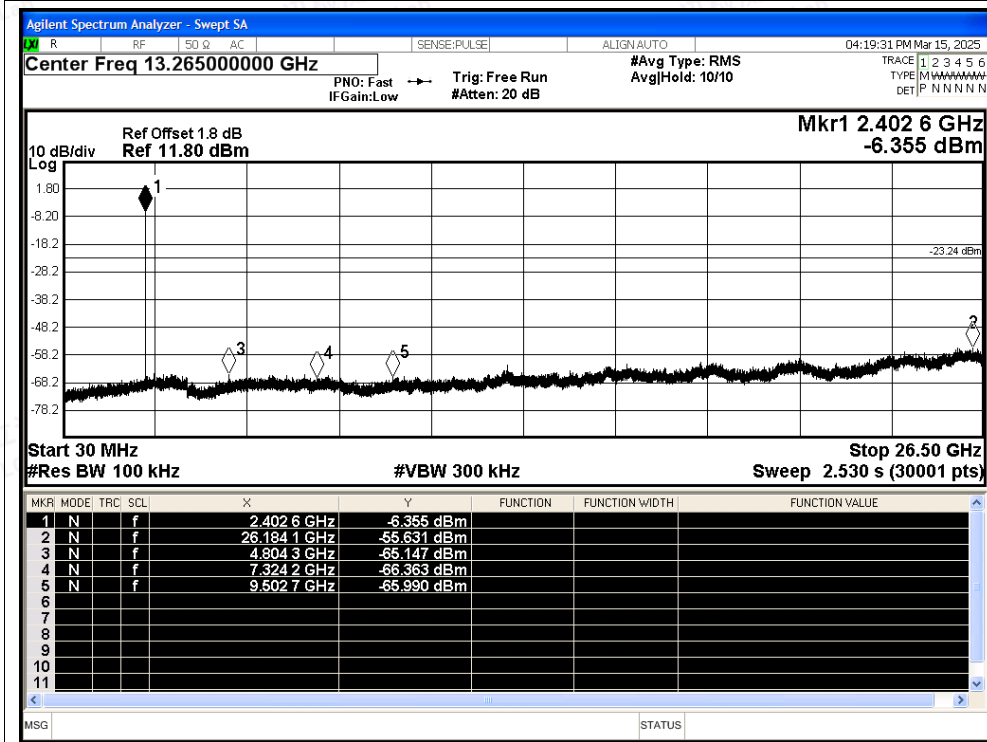




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

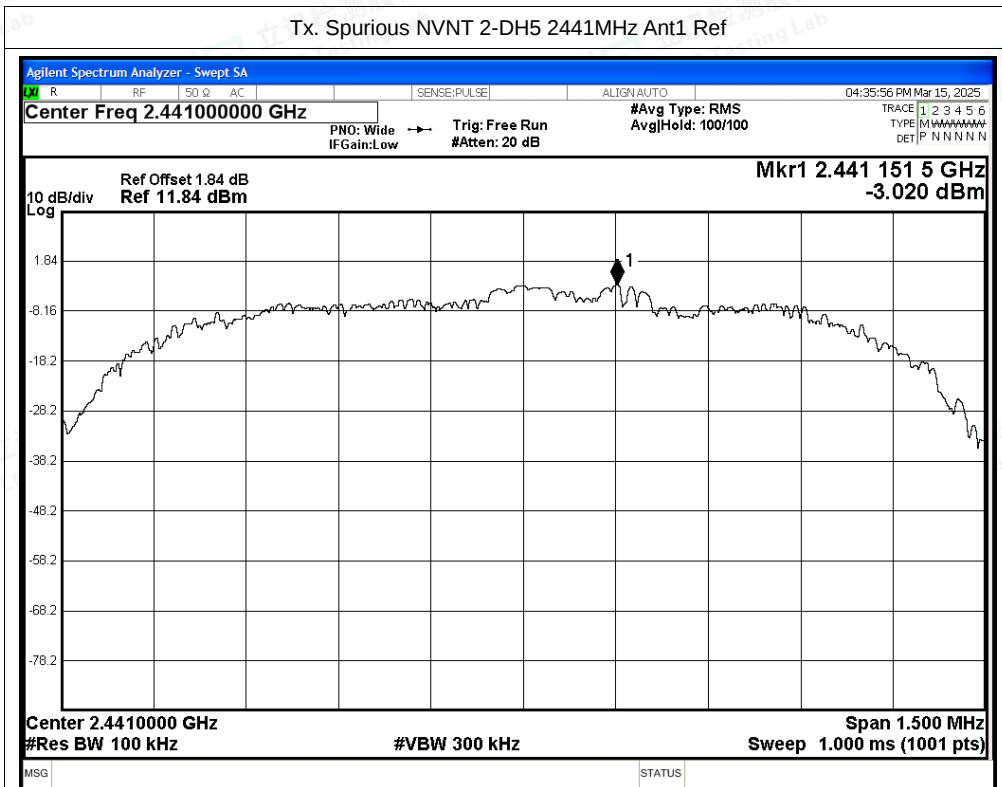


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

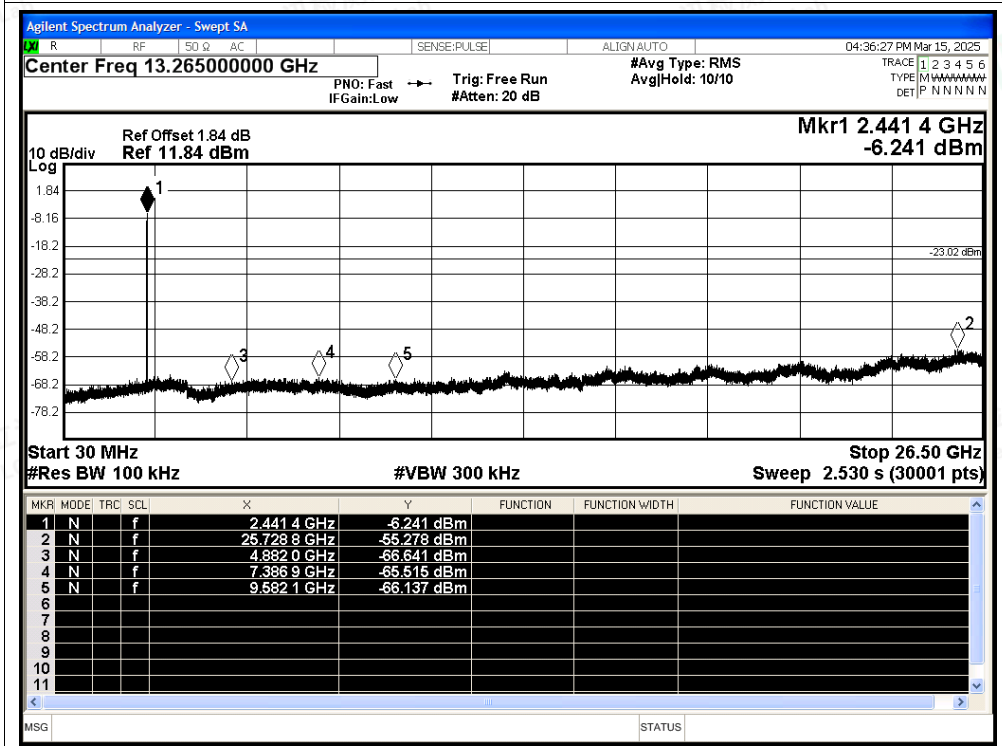




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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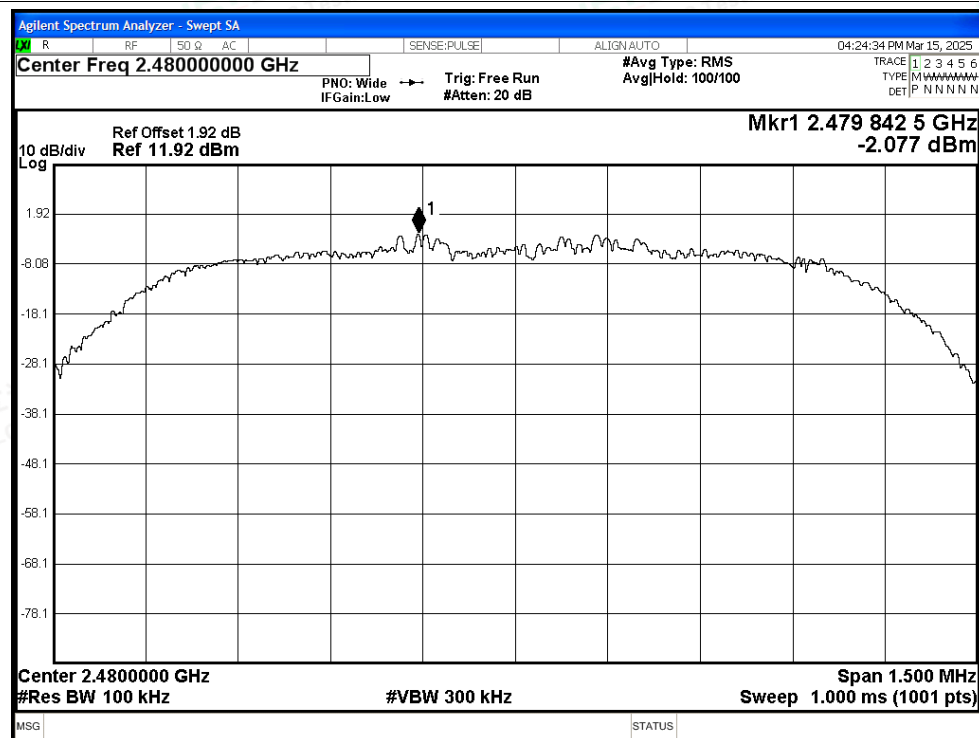
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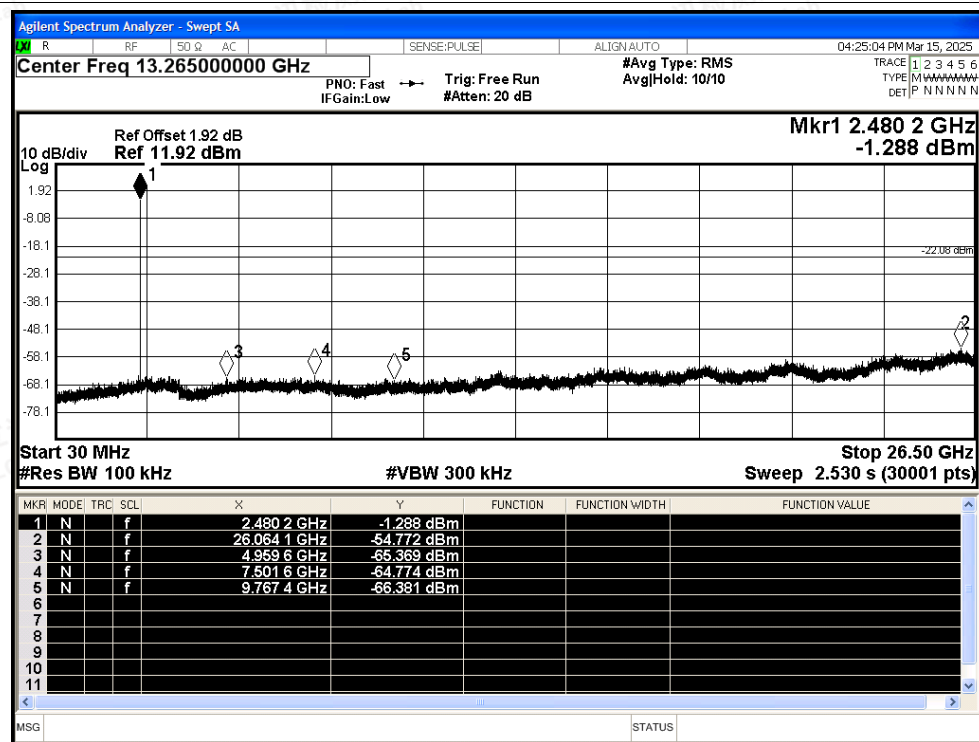
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

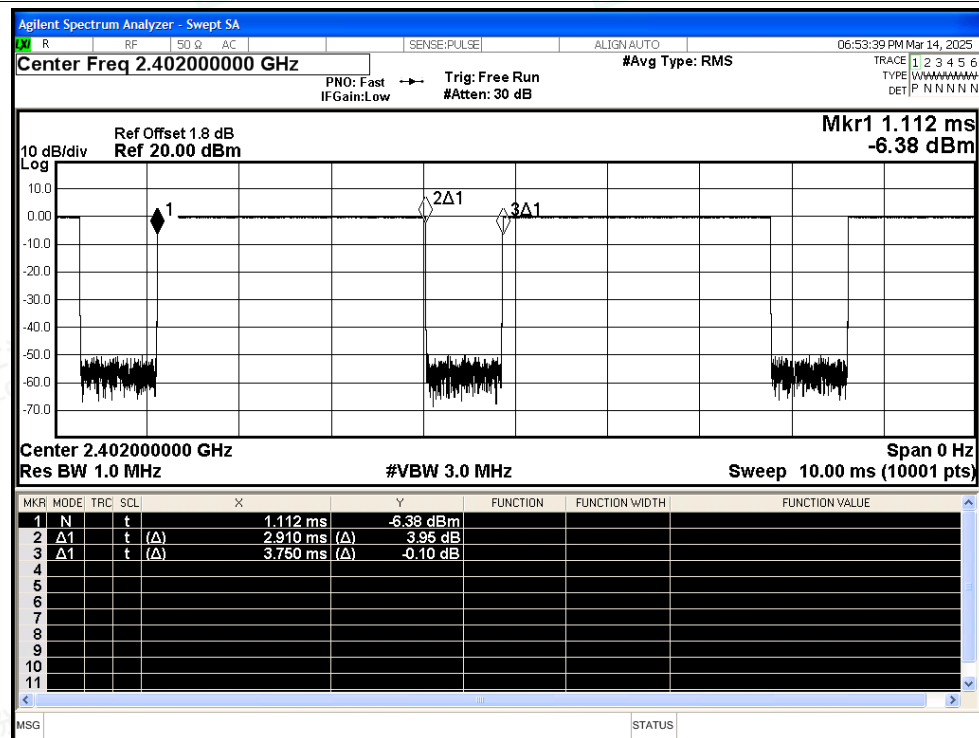


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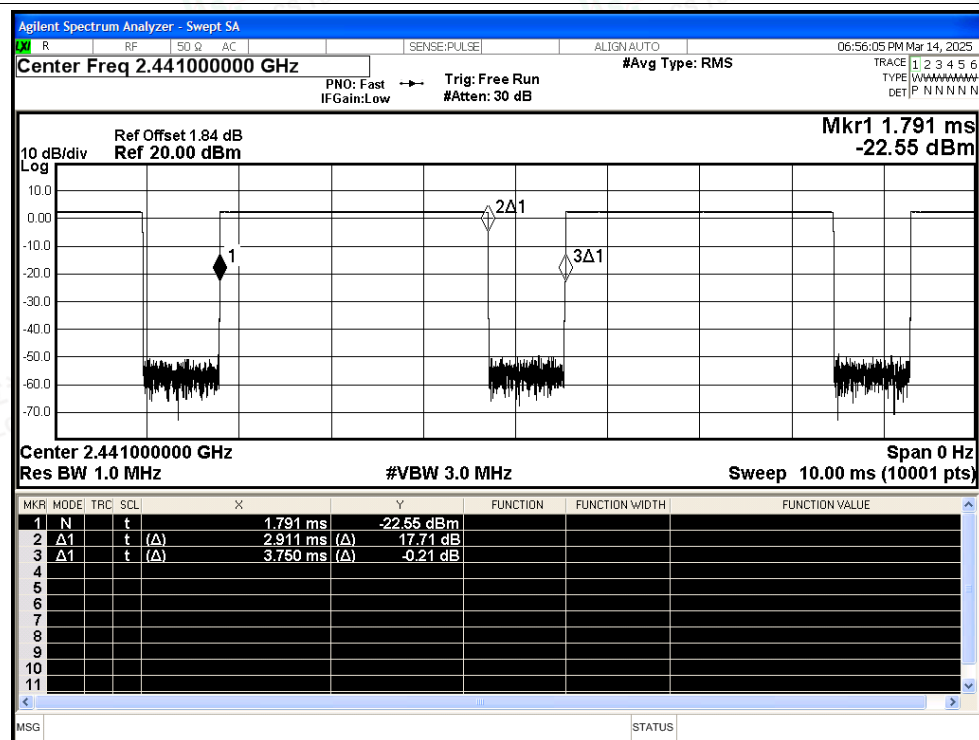


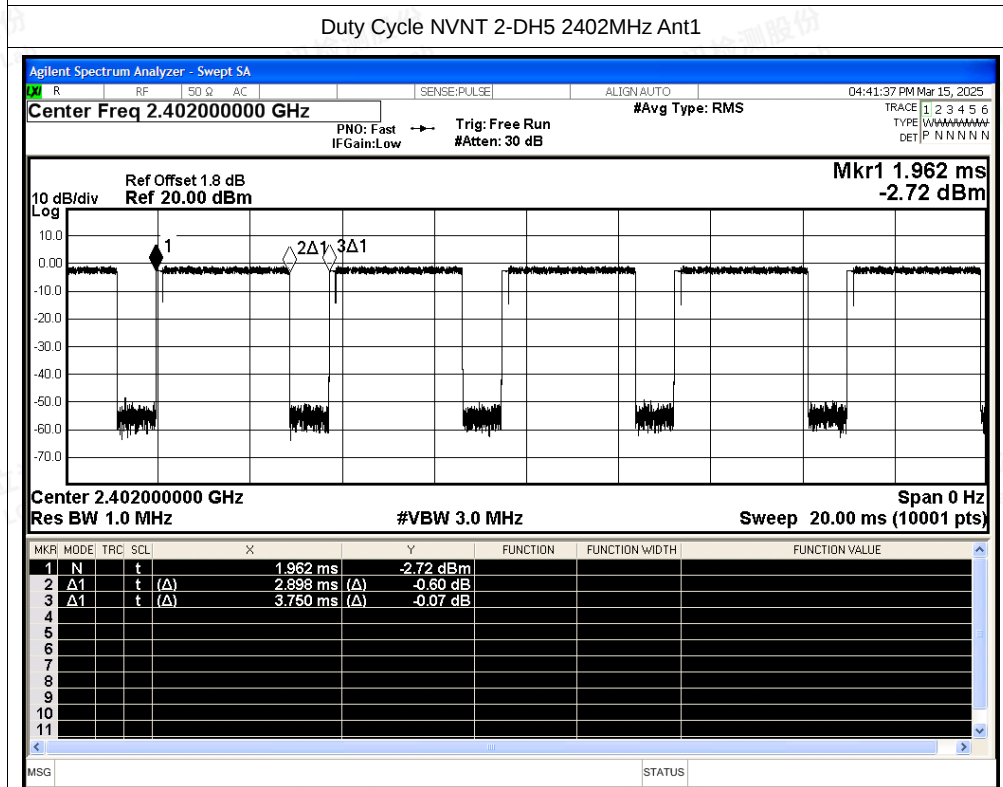
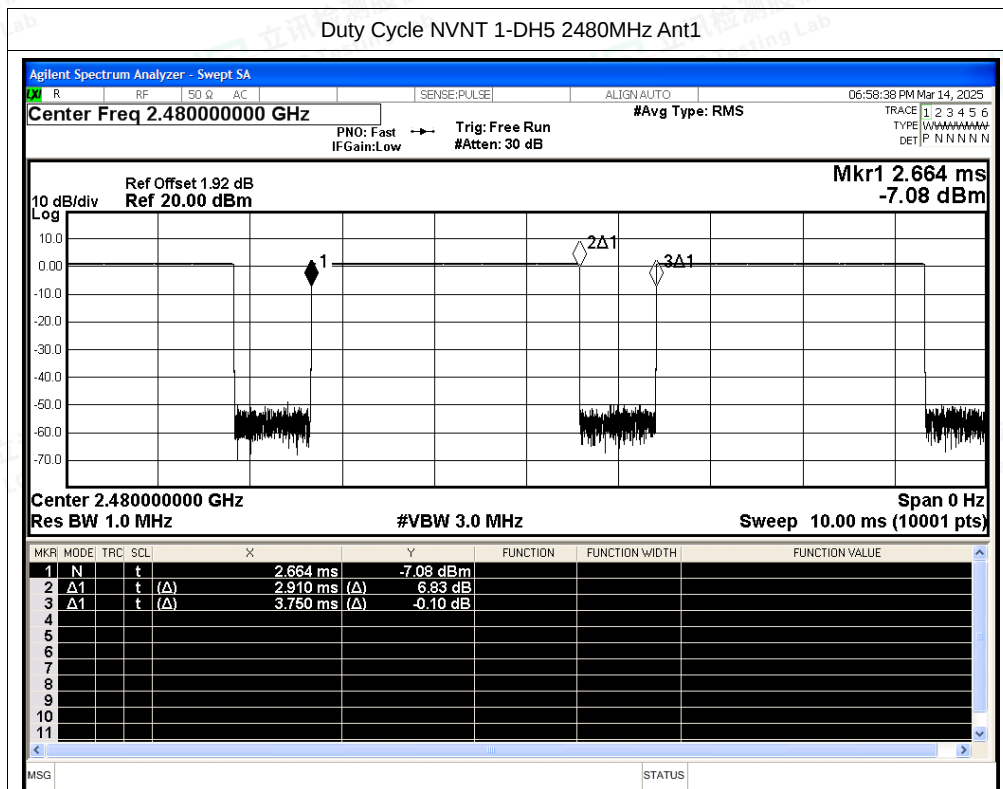
Test Graphs

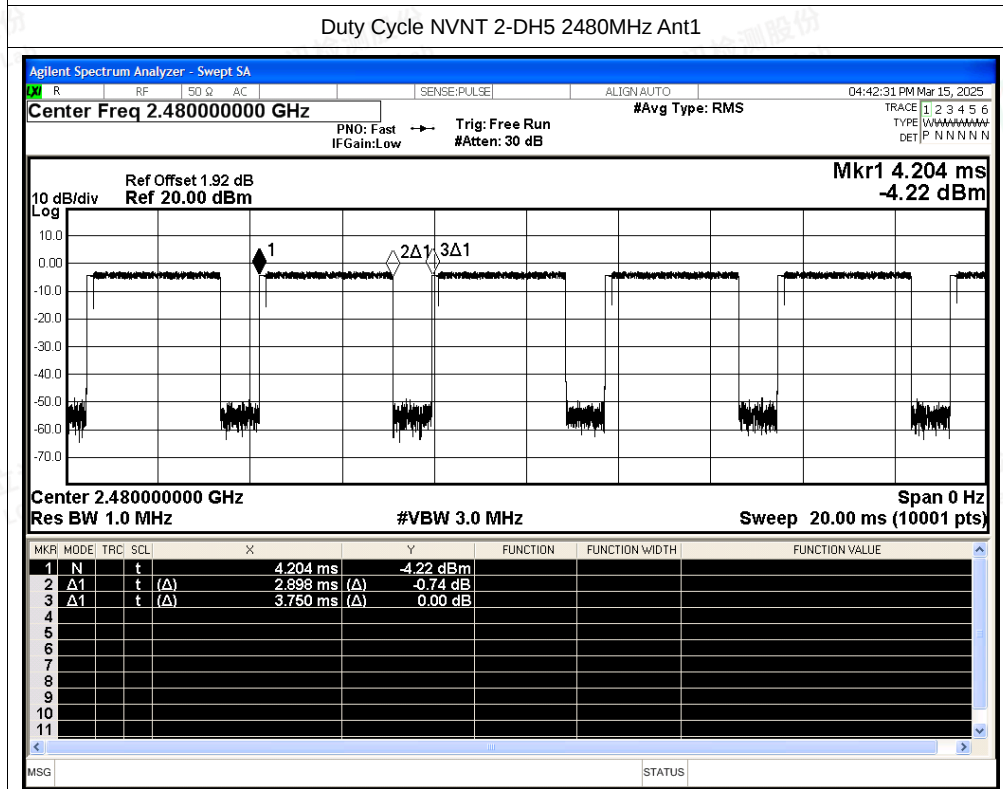
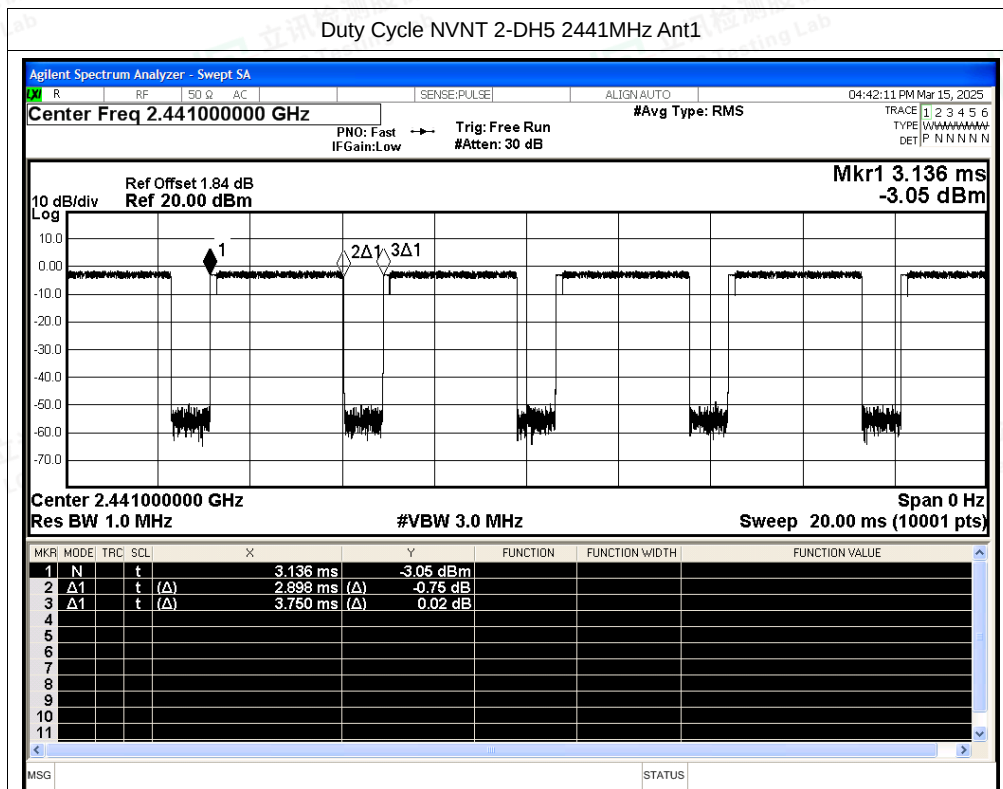
Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1









A.9 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-DH5	2402	Ant1	No-Hopping	2310	-49.84	2	-	47.42	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.84	2	1.1	39.52	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.304	-47.41	2	-	49.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2361.168	-57.6	2	1.1	40.76	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.68	2	-	46.58	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.43	2	1.1	39.93	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.34	2	-	47.92	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.5	2	1.1	40.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.016	-43.14	2	-	54.12	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.216	-57.06	2	1.1	41.3	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.47	2	-	46.79	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.63	2	1.1	39.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.83	2	-	45.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.21	2	0.12	38.17	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2363.088	-48.58	2	-	48.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.152	-58.01	2	0.12	39.37	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.87	2	-	47.39	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.9	2	0.12	38.48	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.92	2	-	50.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.53	2	0.12	39.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.824	-43.92	2	-	53.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-57.04	2	0.12	40.34	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.9	2	-	48.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.62	2	0.12	38.76	Average	54	Pass



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