



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Translation Earphone

Test Model: M16

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
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	0.99	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.935	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.972	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.328	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.272	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.287	N/A	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.



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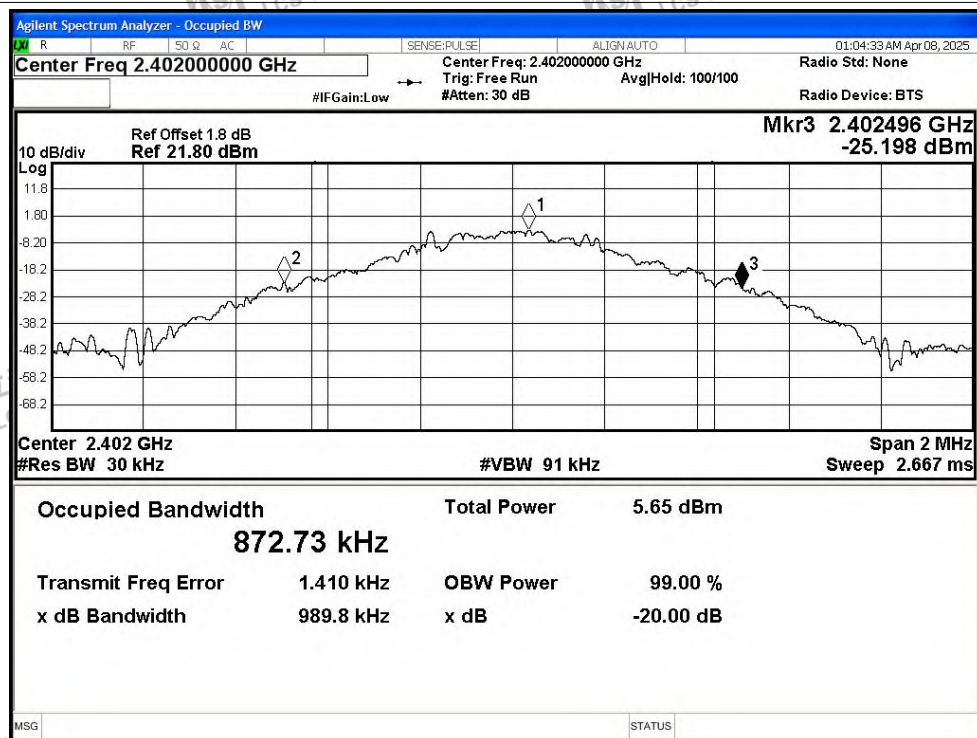
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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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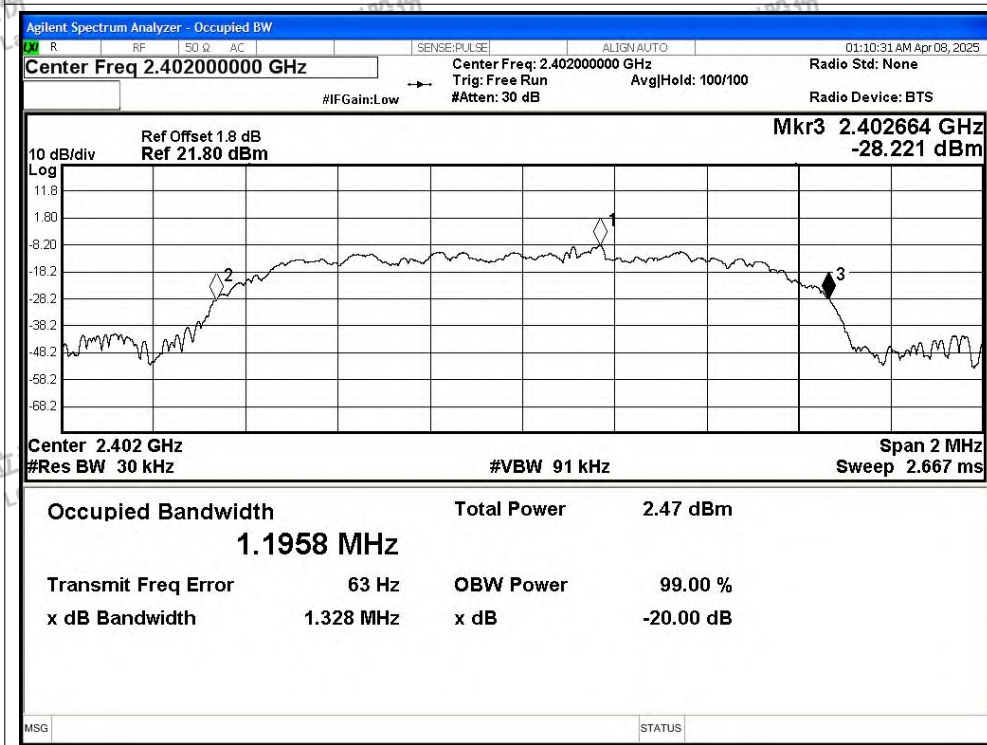
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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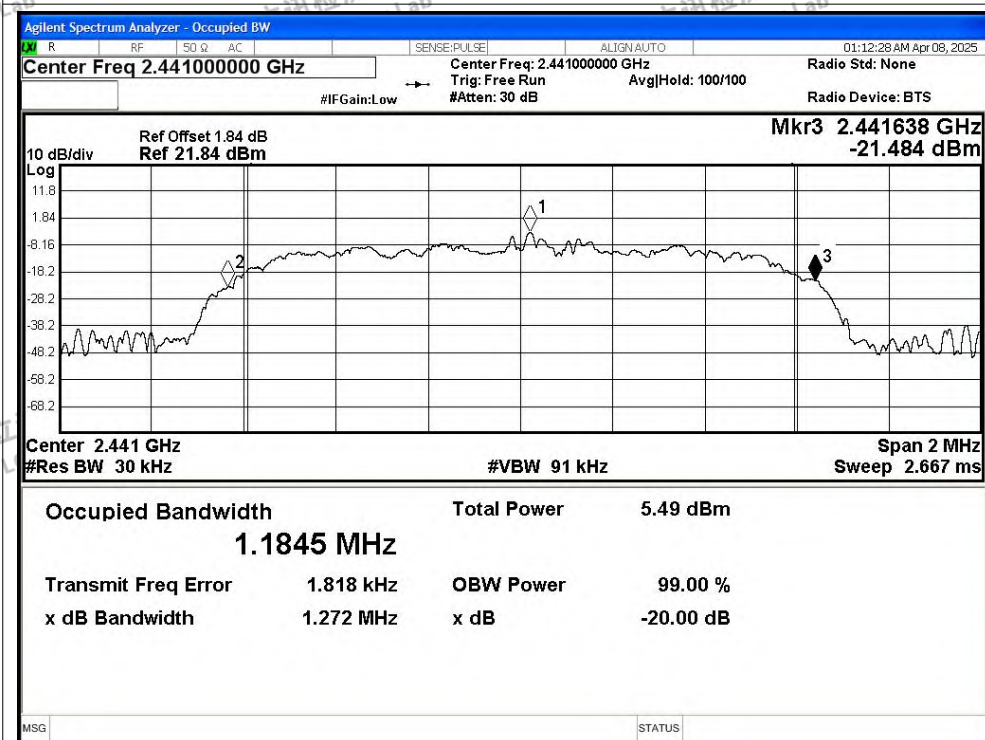
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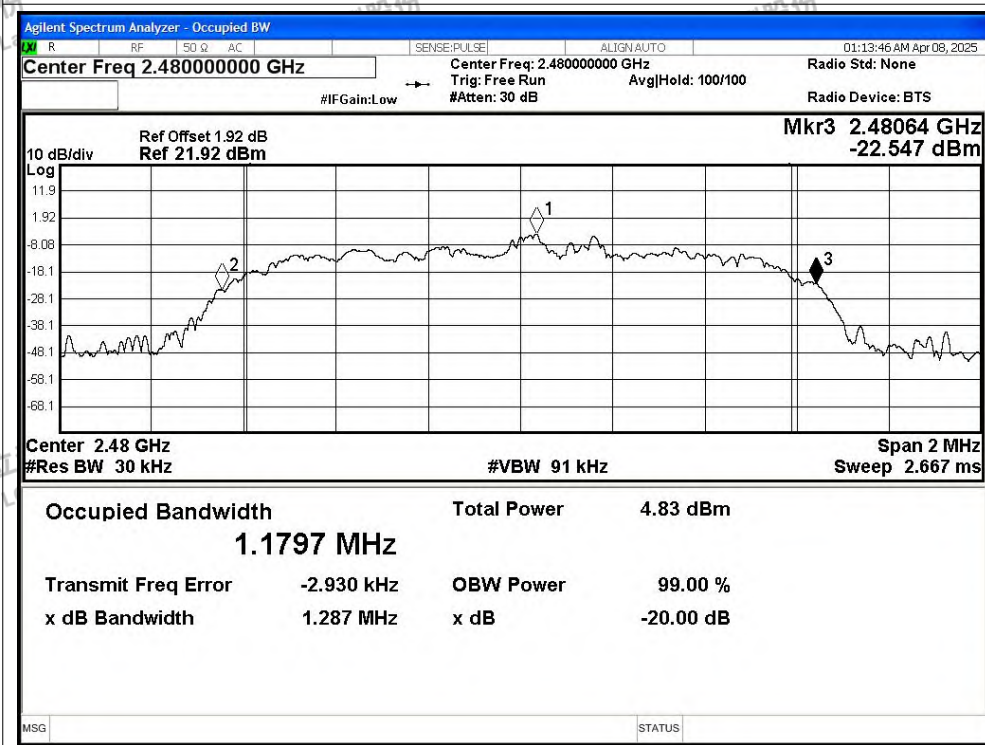
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Left ear:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.57	21	Pass
NVNT	1-DH5	2441	Ant1	-0.45	21	Pass
NVNT	1-DH5	2480	Ant1	-1.71	21	Pass
NVNT	2-DH5	2402	Ant1	-1.3	21	Pass
NVNT	2-DH5	2441	Ant1	1.39	21	Pass
NVNT	2-DH5	2480	Ant1	0.33	21	Pass

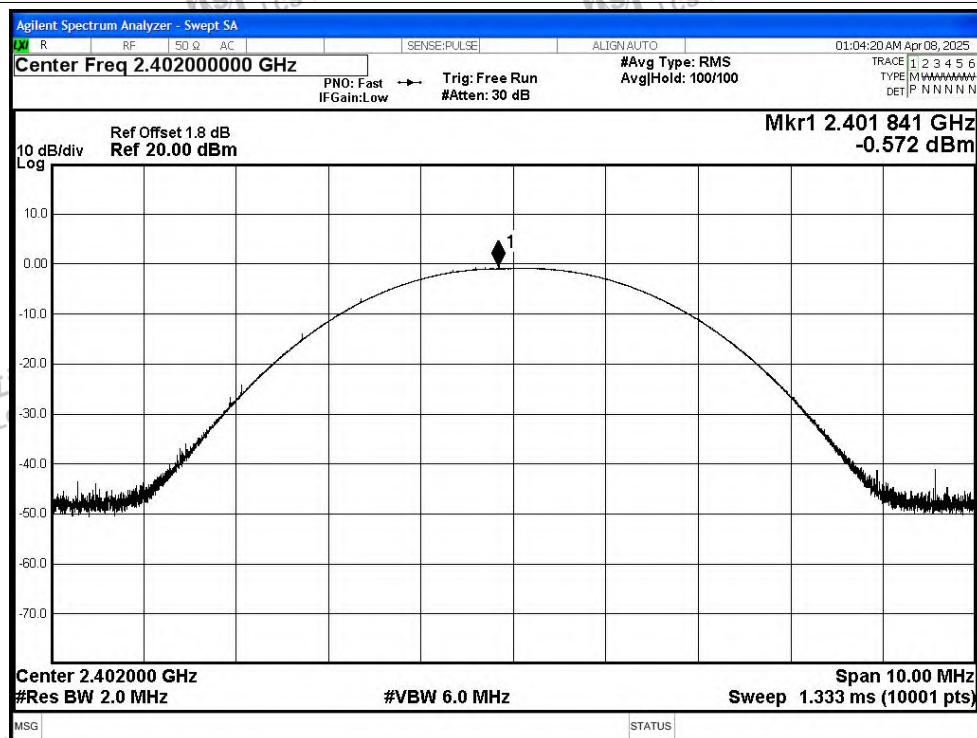


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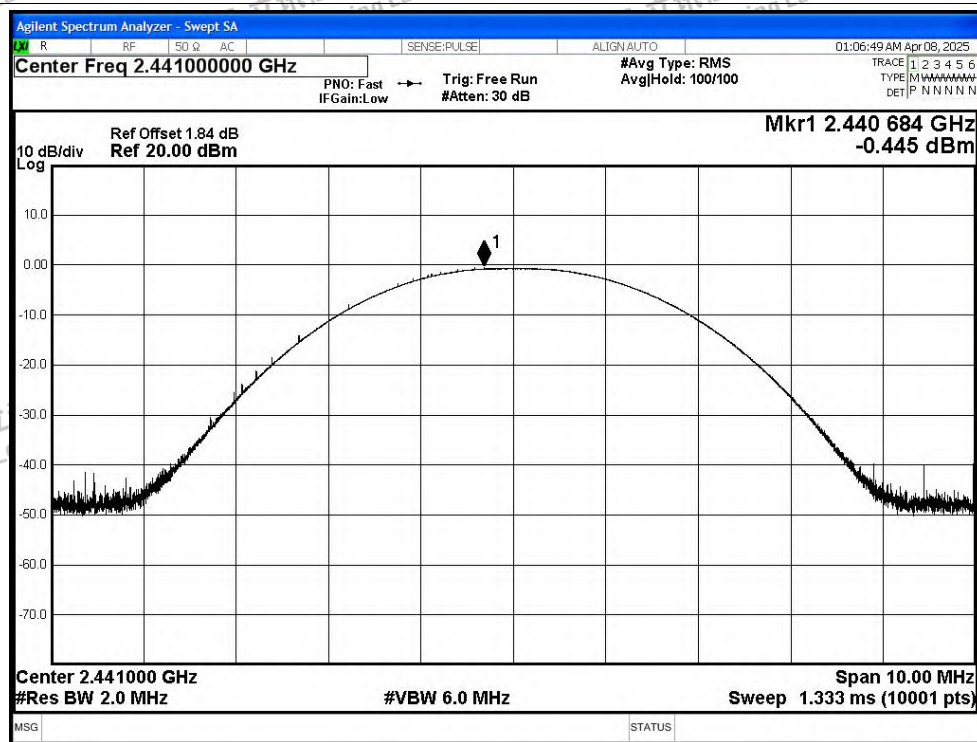


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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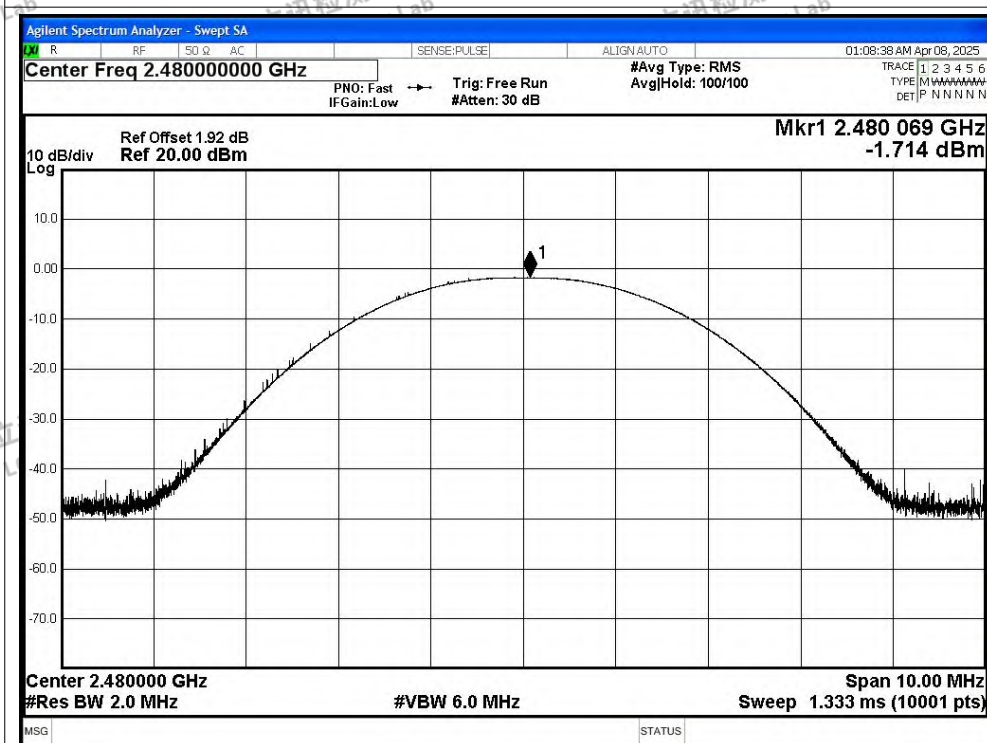
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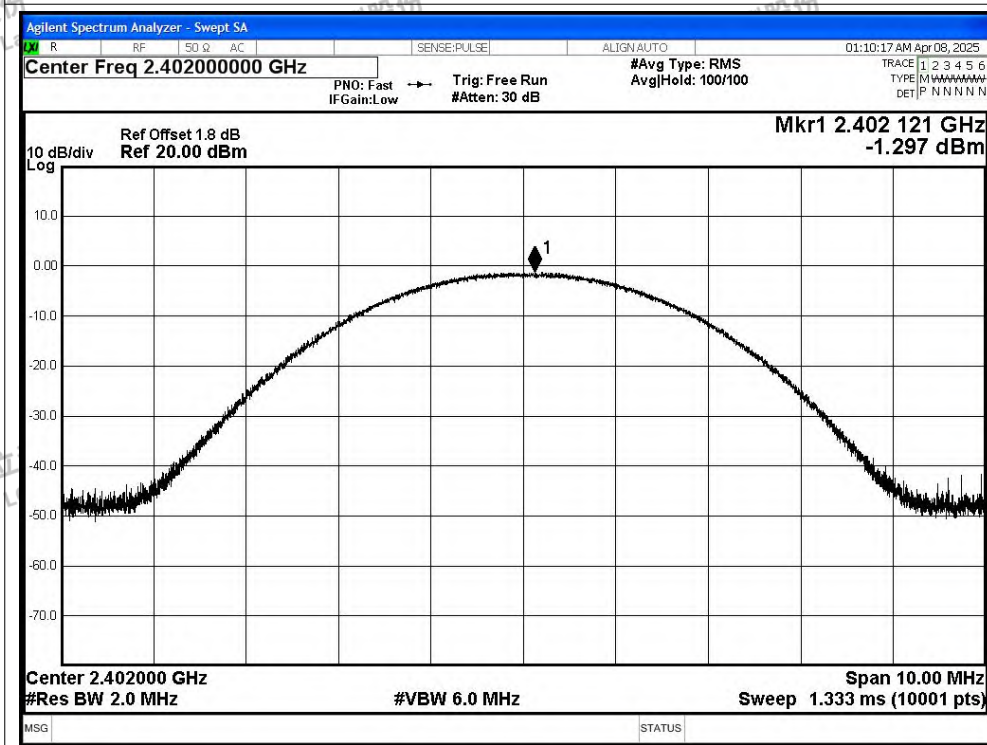
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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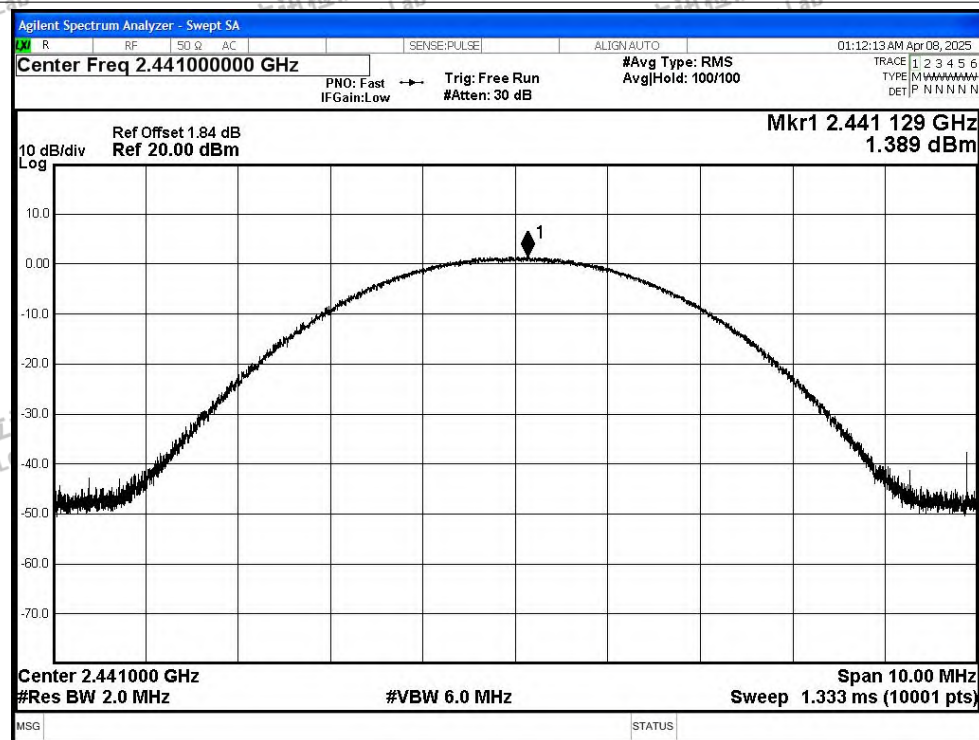
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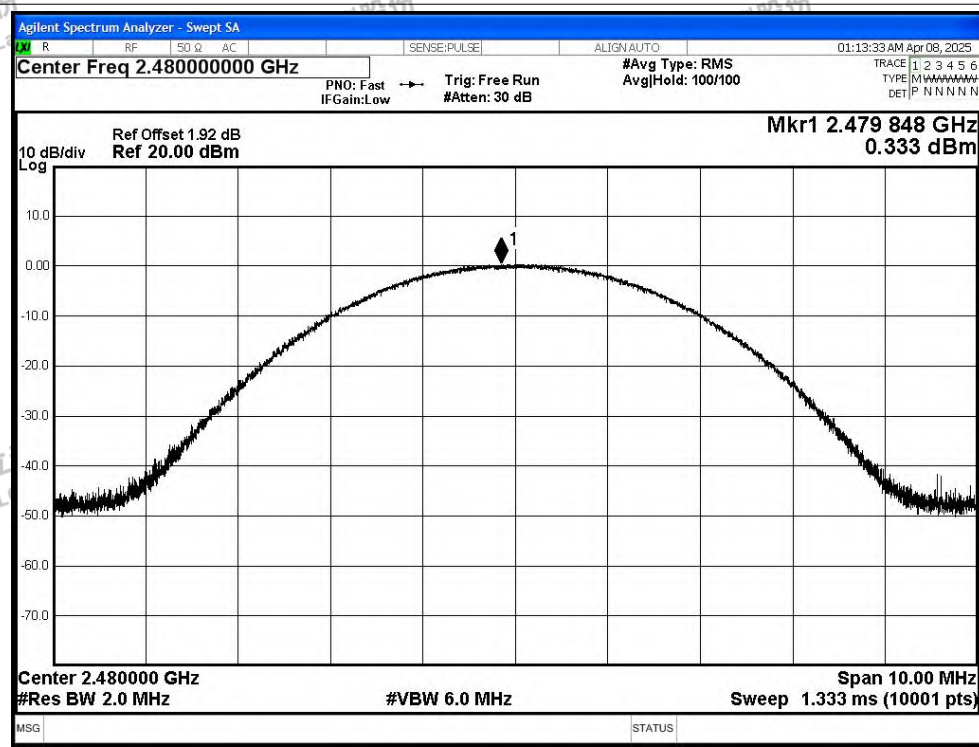
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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Right ear

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.86	21	Pass
NVNT	1-DH5	2441	Ant1	-0.51	21	Pass
NVNT	1-DH5	2480	Ant1	-1.8	21	Pass
NVNT	2-DH5	2402	Ant1	1.26	21	Pass
NVNT	2-DH5	2441	Ant1	1.43	21	Pass
NVNT	2-DH5	2480	Ant1	0.31	21	Pass

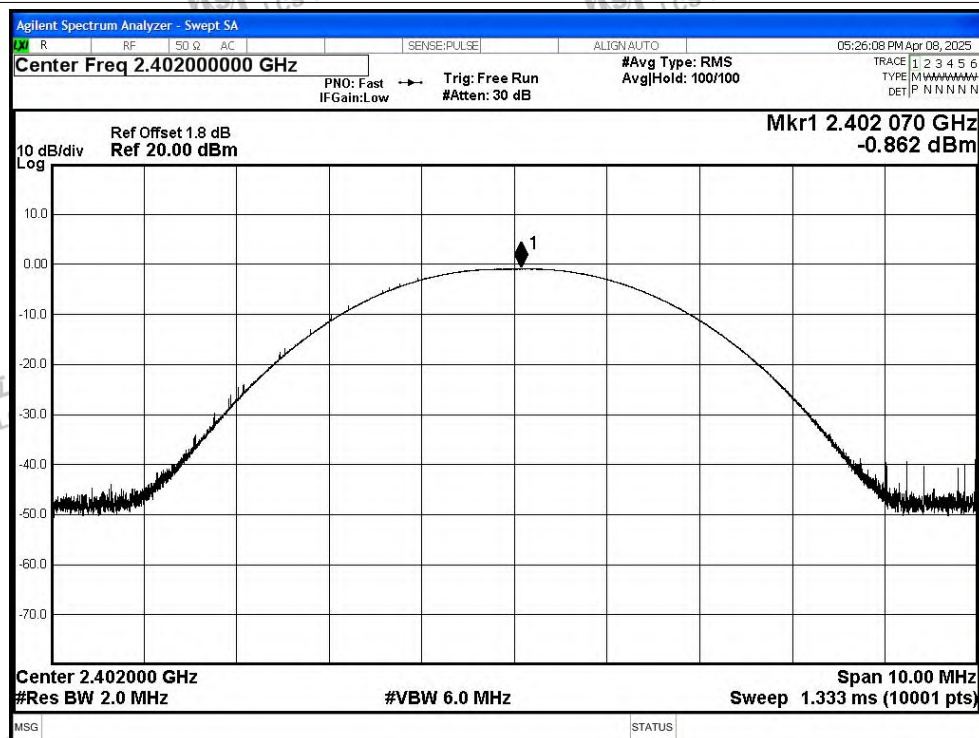


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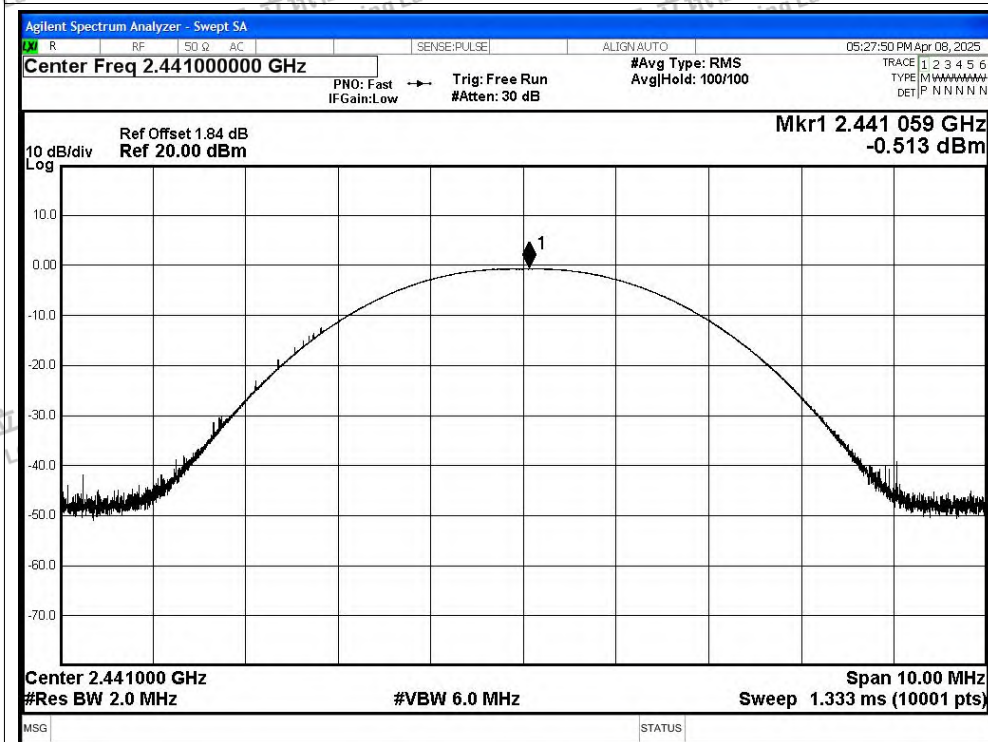


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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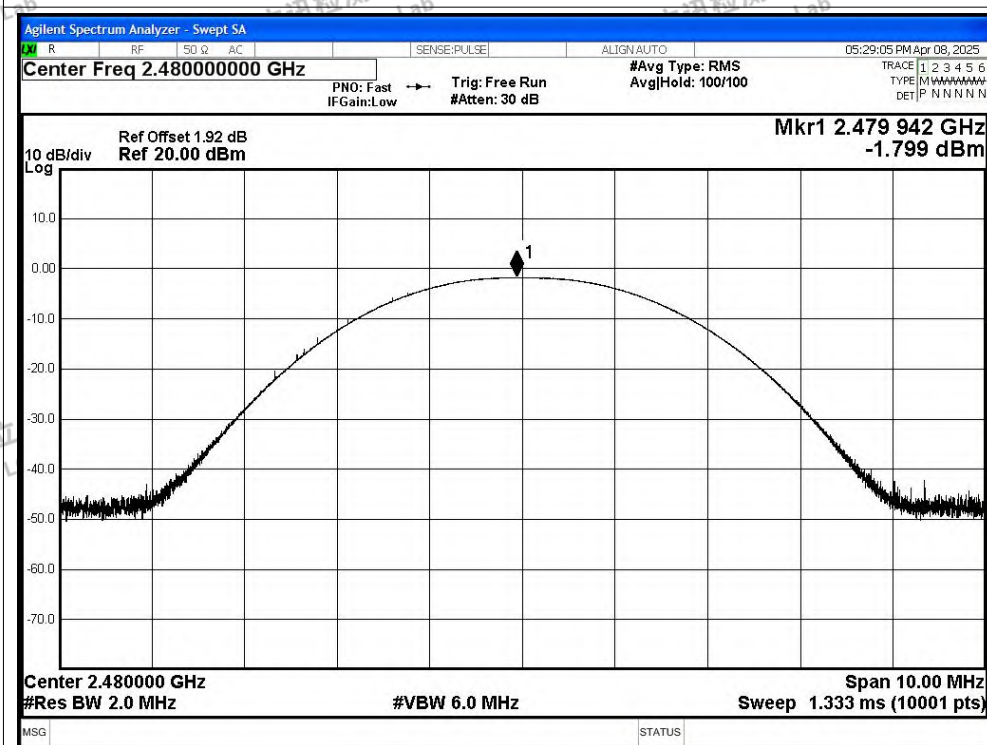
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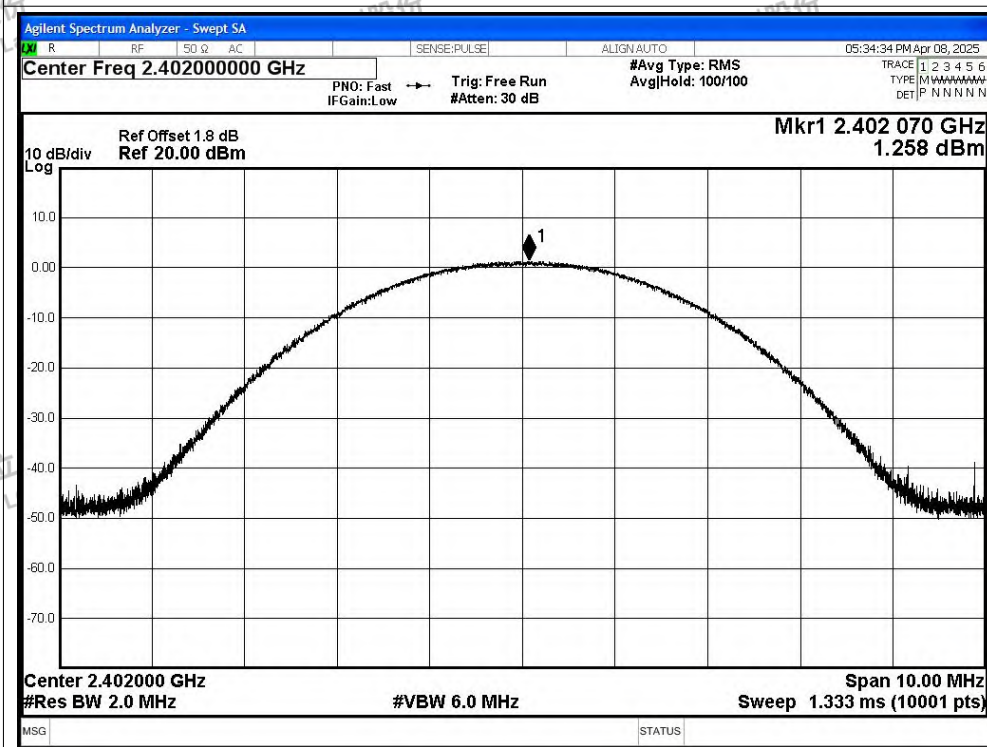
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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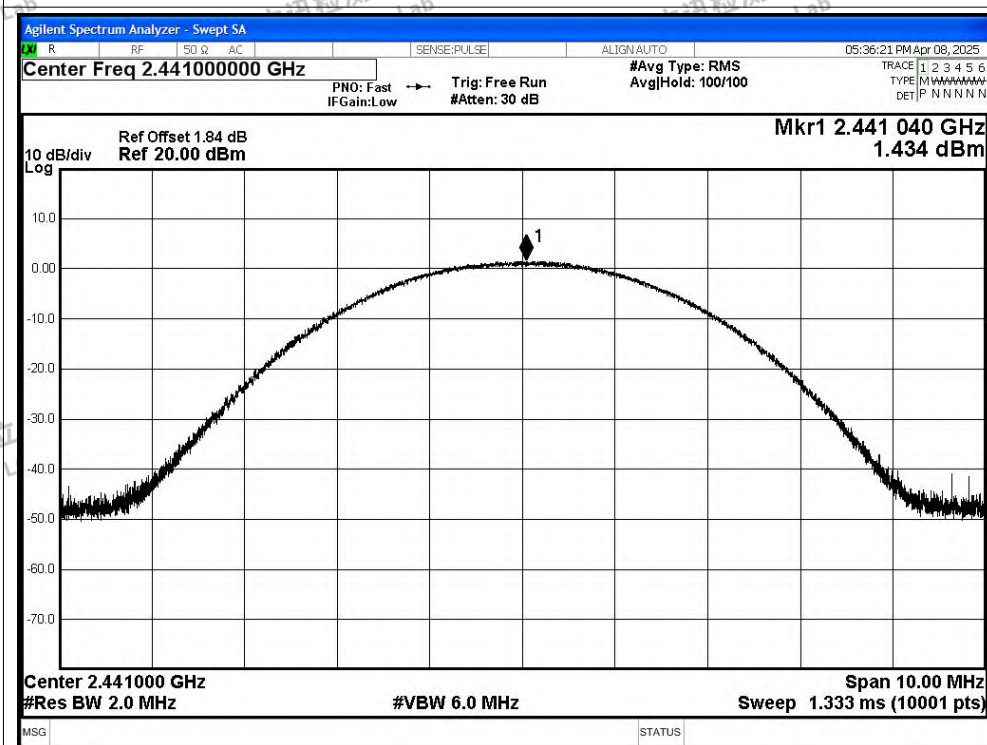
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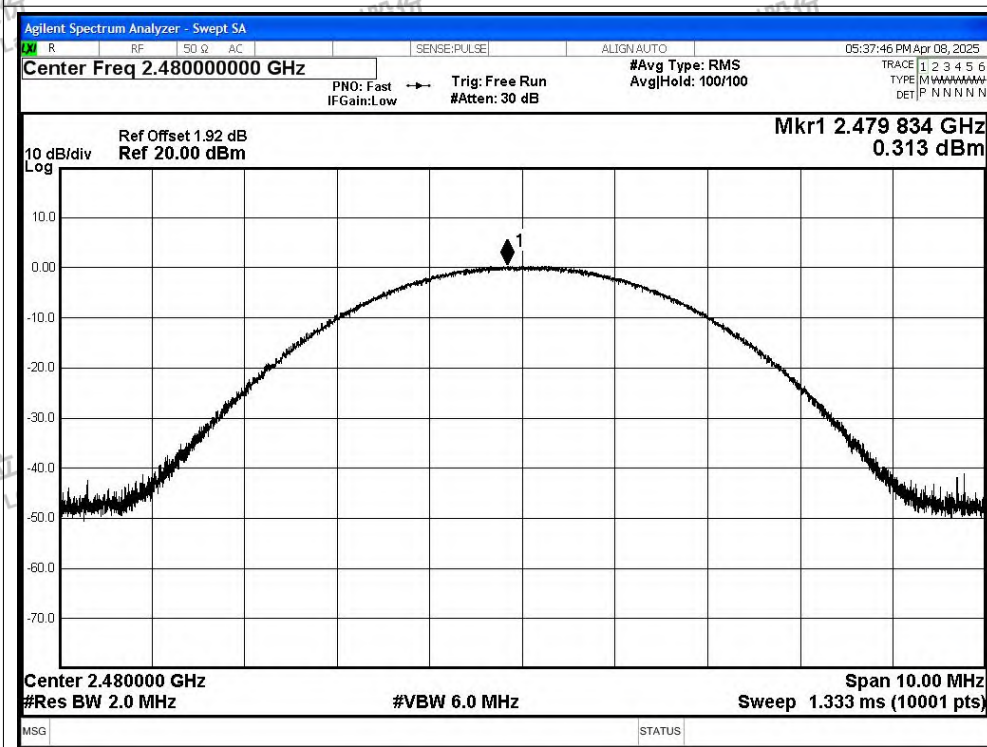
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.838	2402.976	1.138	0.66	Pass
NVNT	2-DH5	Ant1	2402.002	2403.116	1.114	0.885	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.



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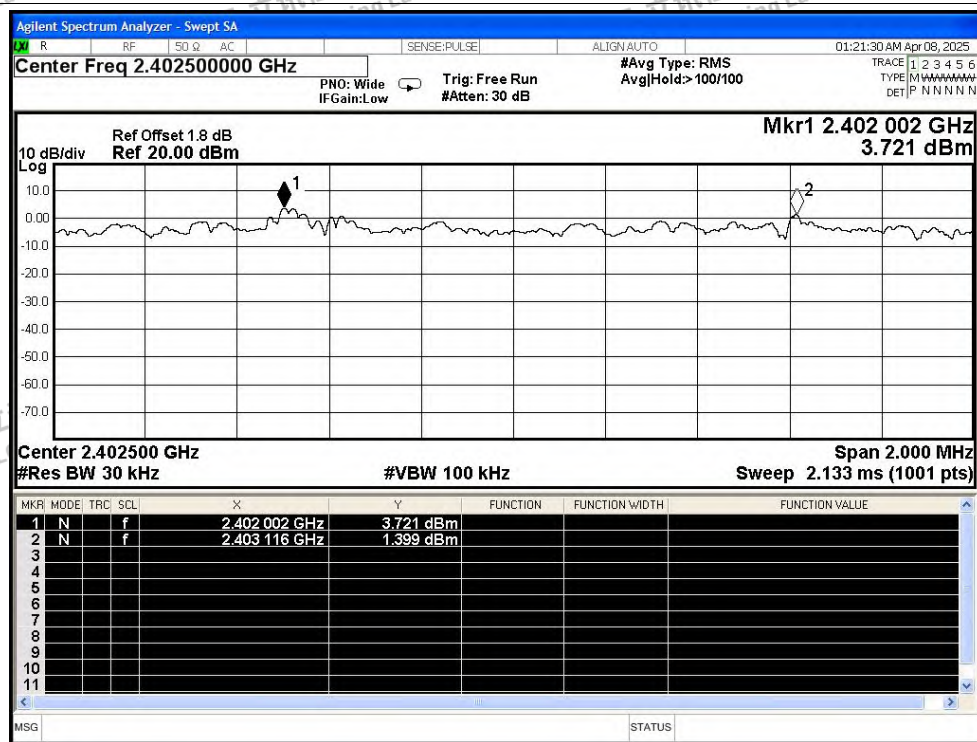


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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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	2.909	325.808	112	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.899	304.395	105	31600	400	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.

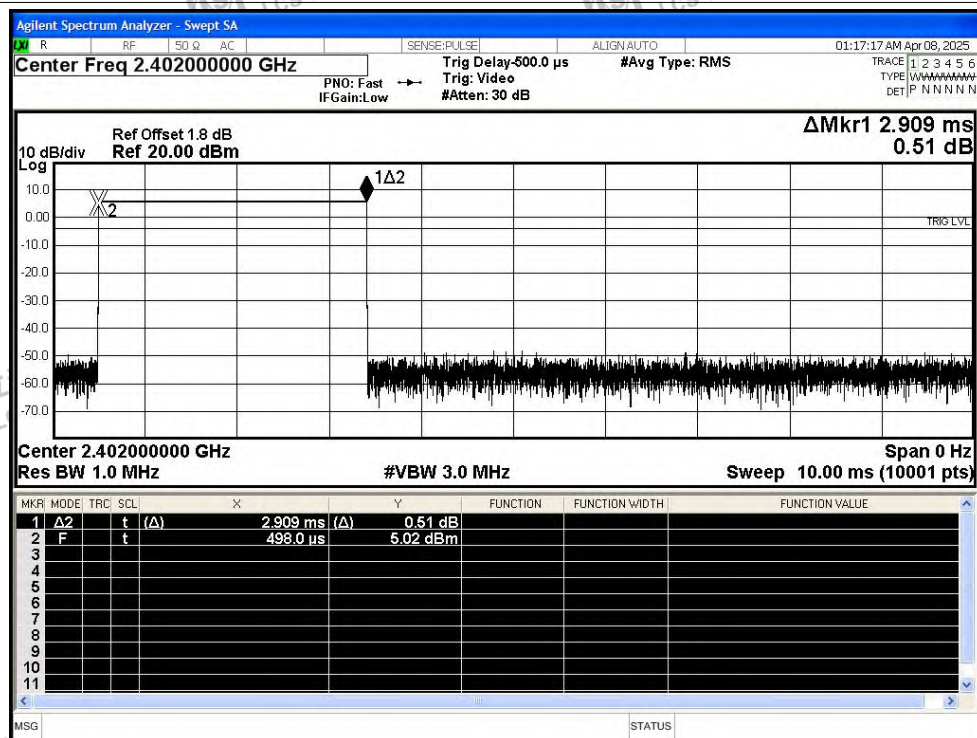


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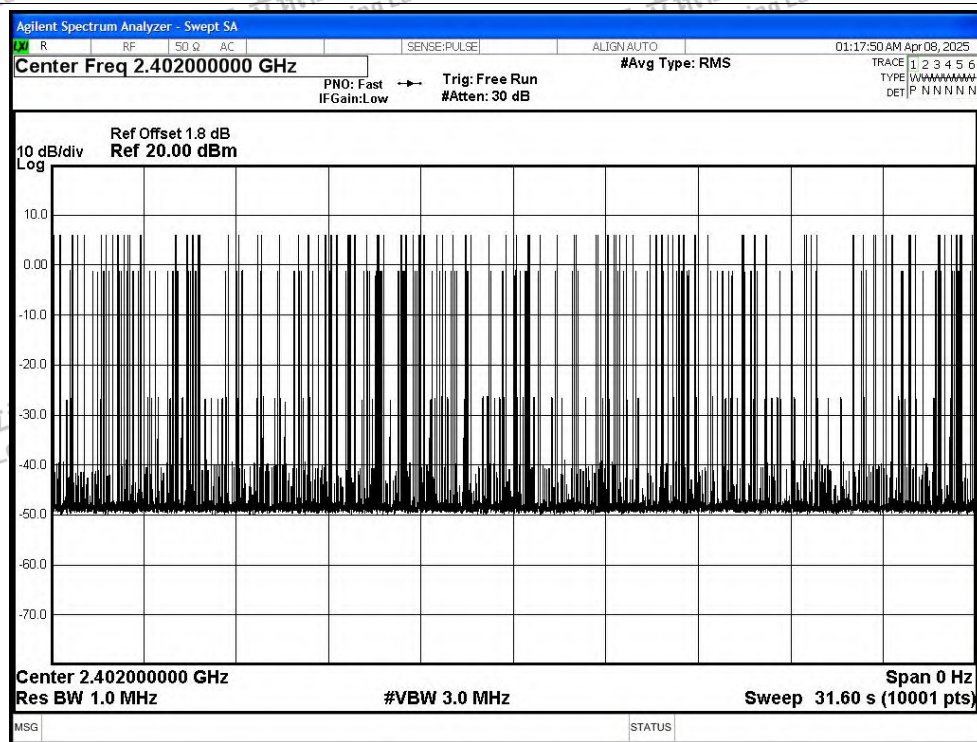


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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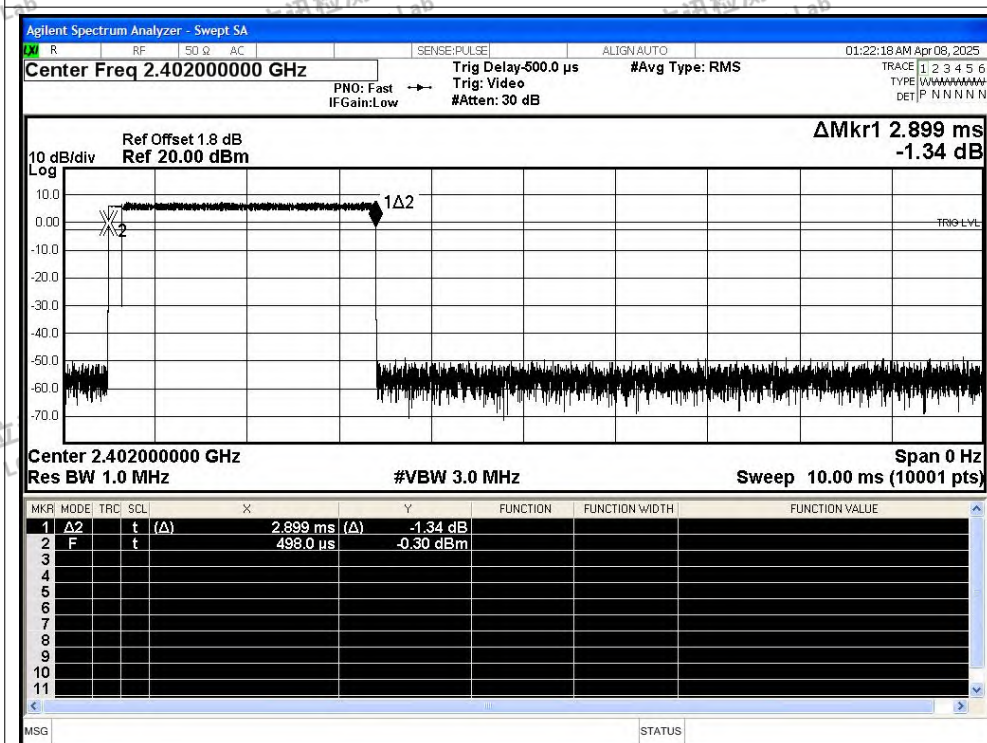
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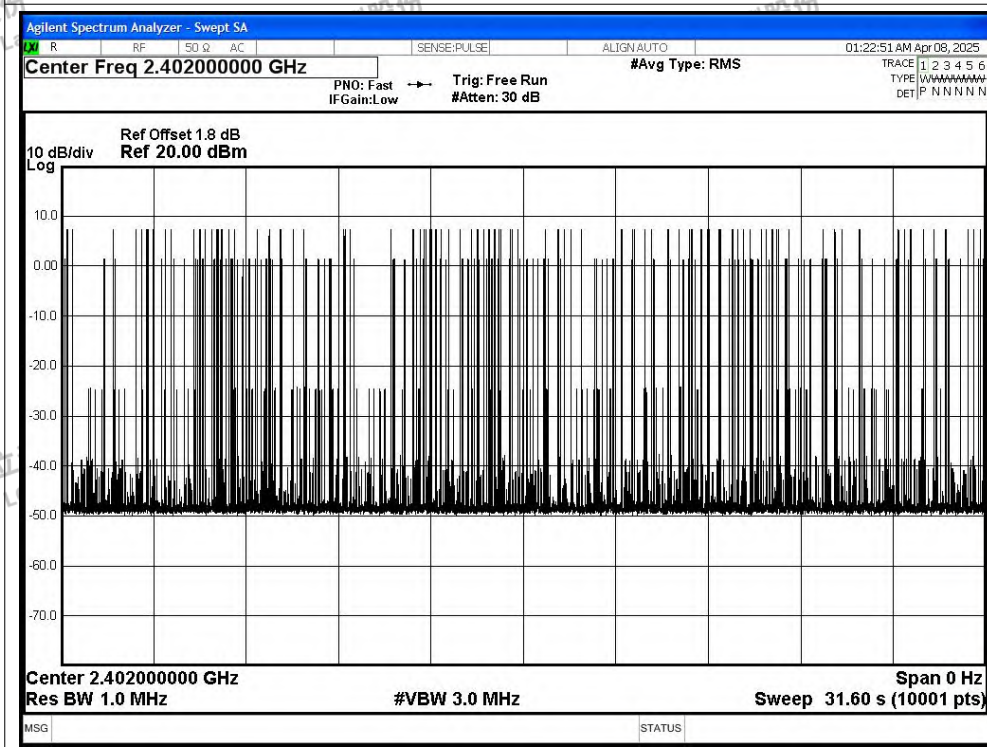
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-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

Note: Both ears have been tested, only the worst case right ear results in this report.

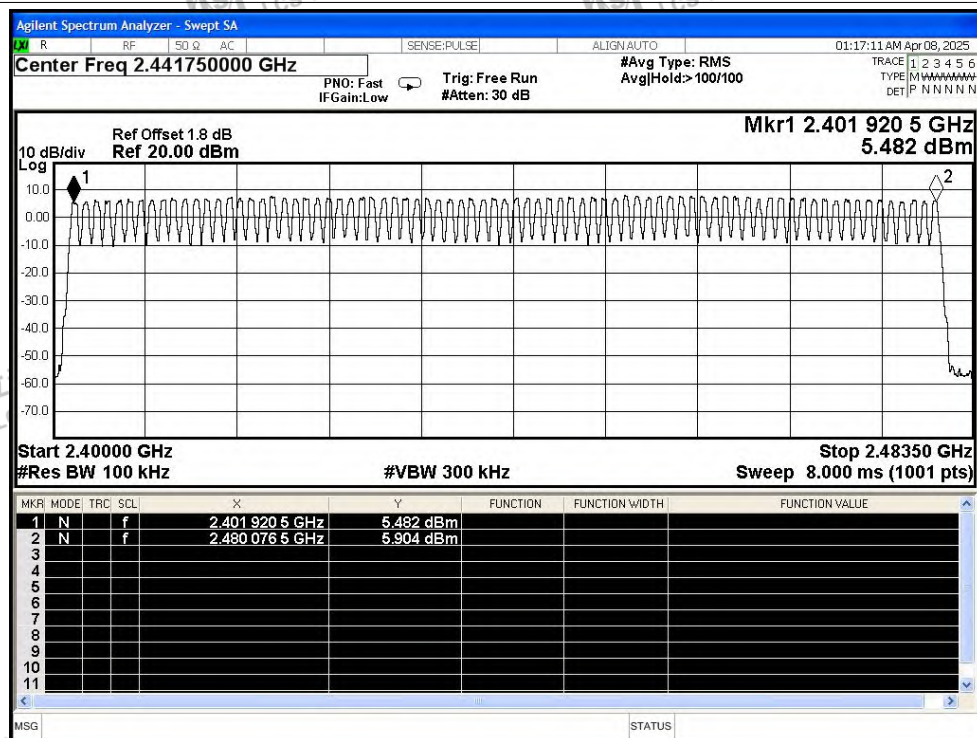


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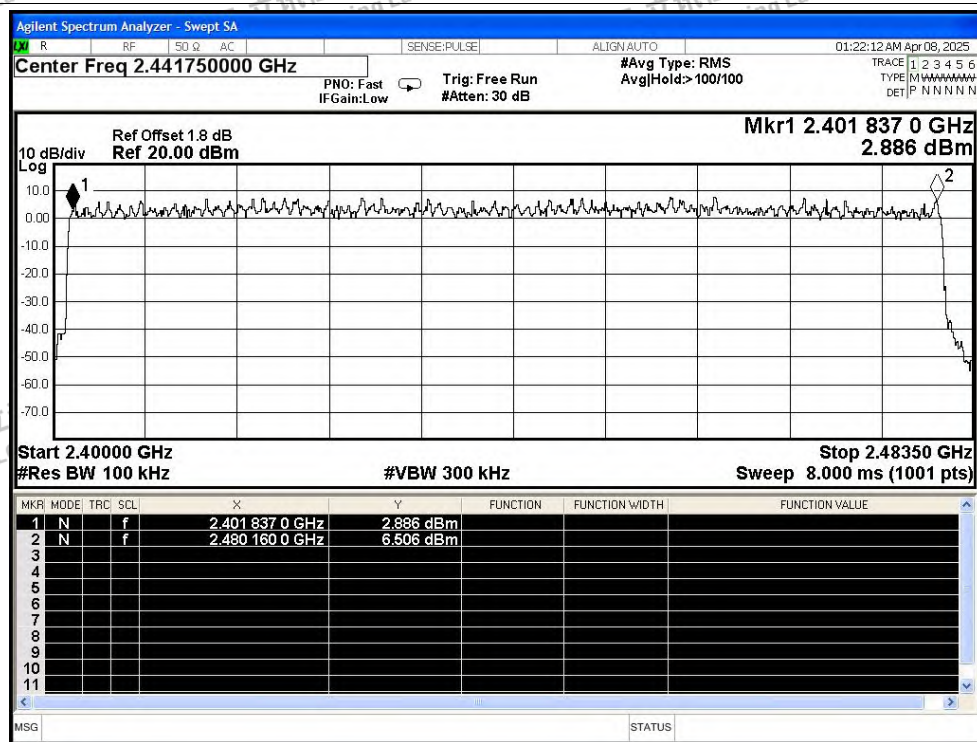


Test Graphs

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	-55.47	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.6	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.7	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.88	-20	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.

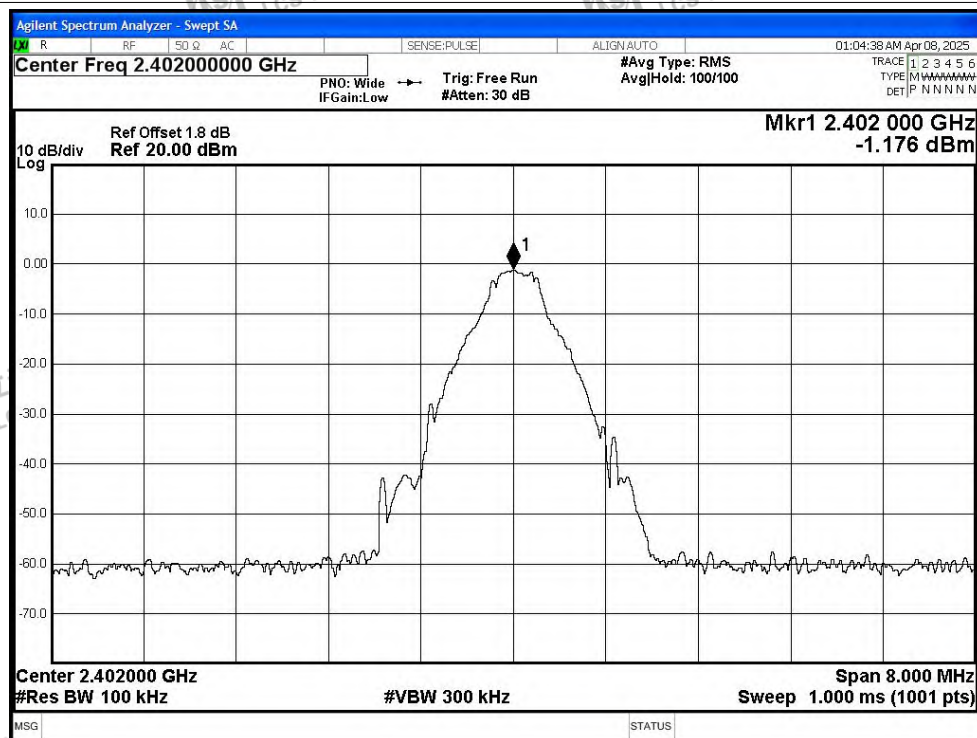


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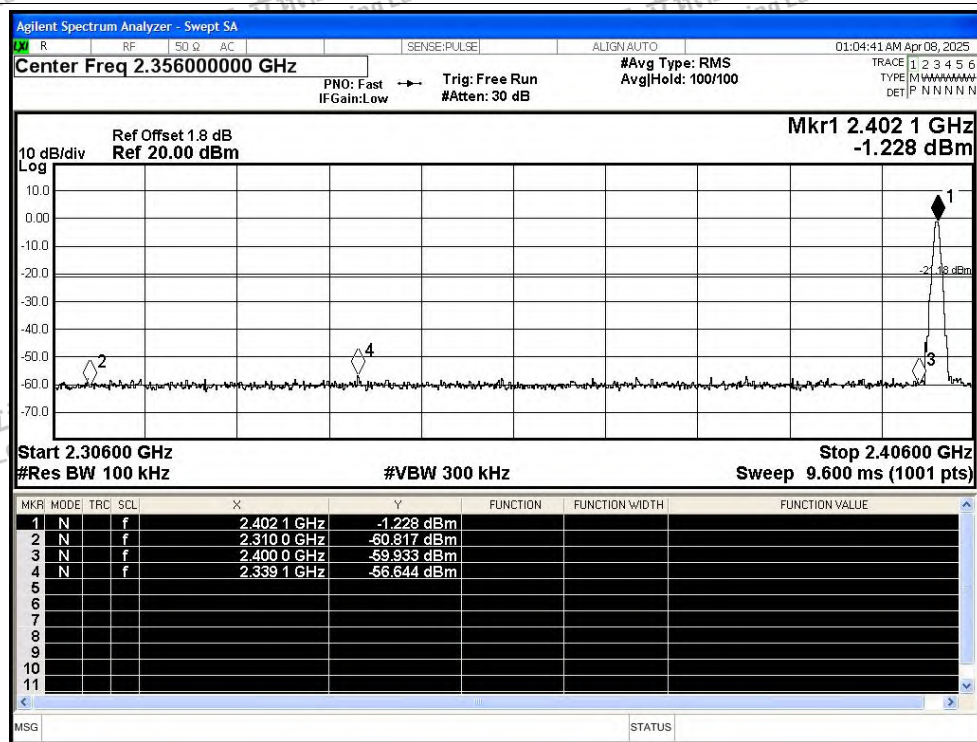


Test Graphs

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



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



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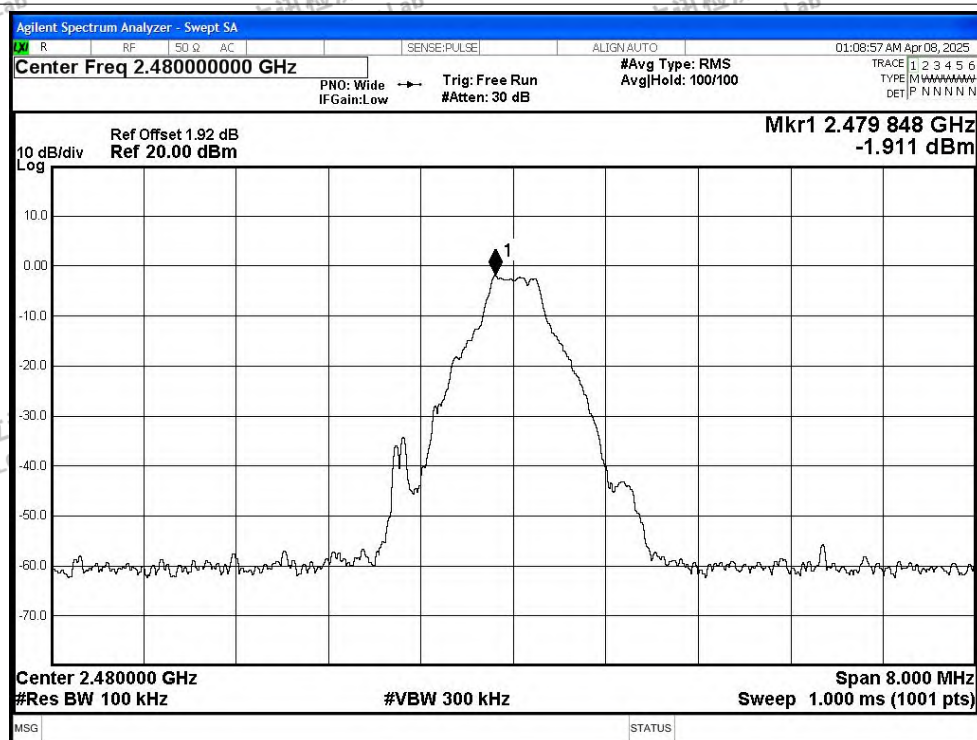
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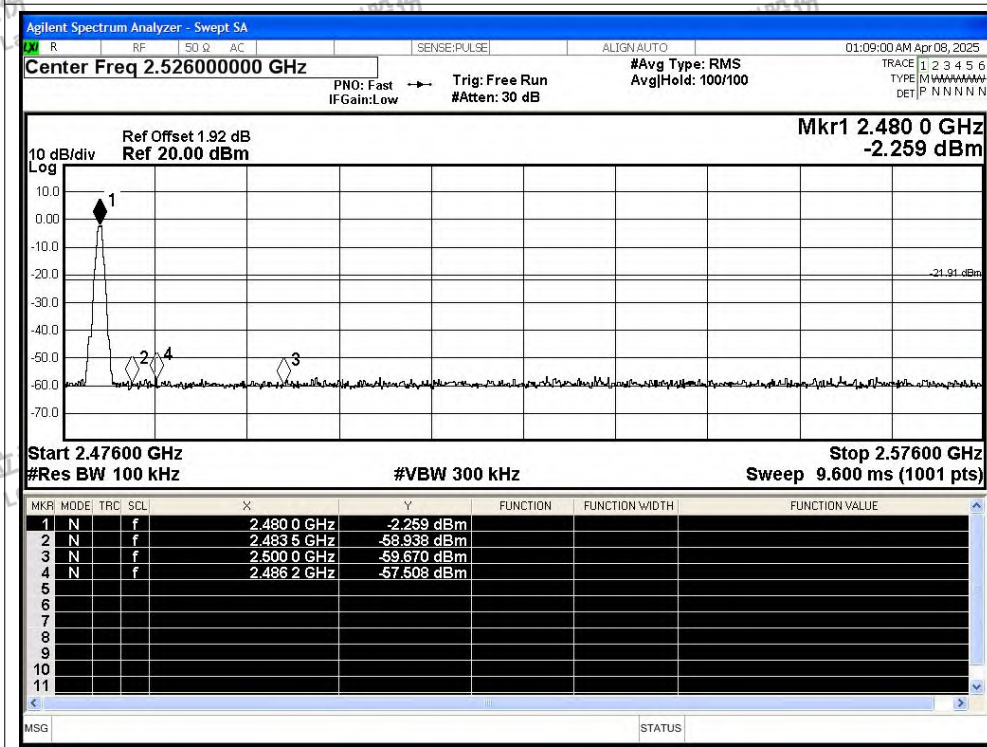
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



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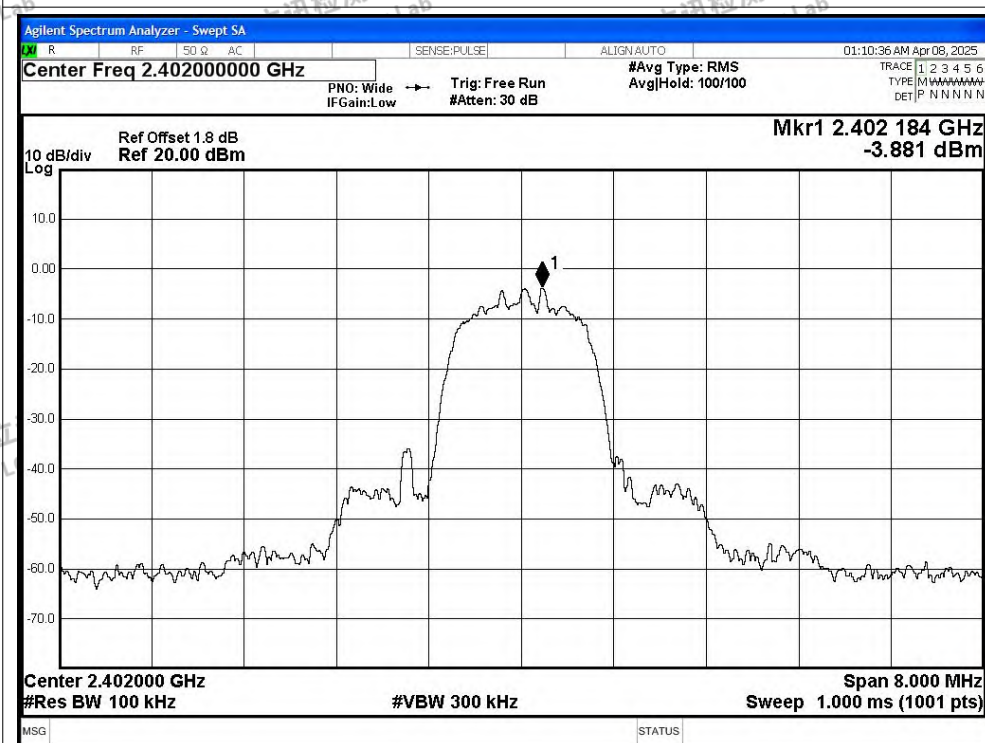
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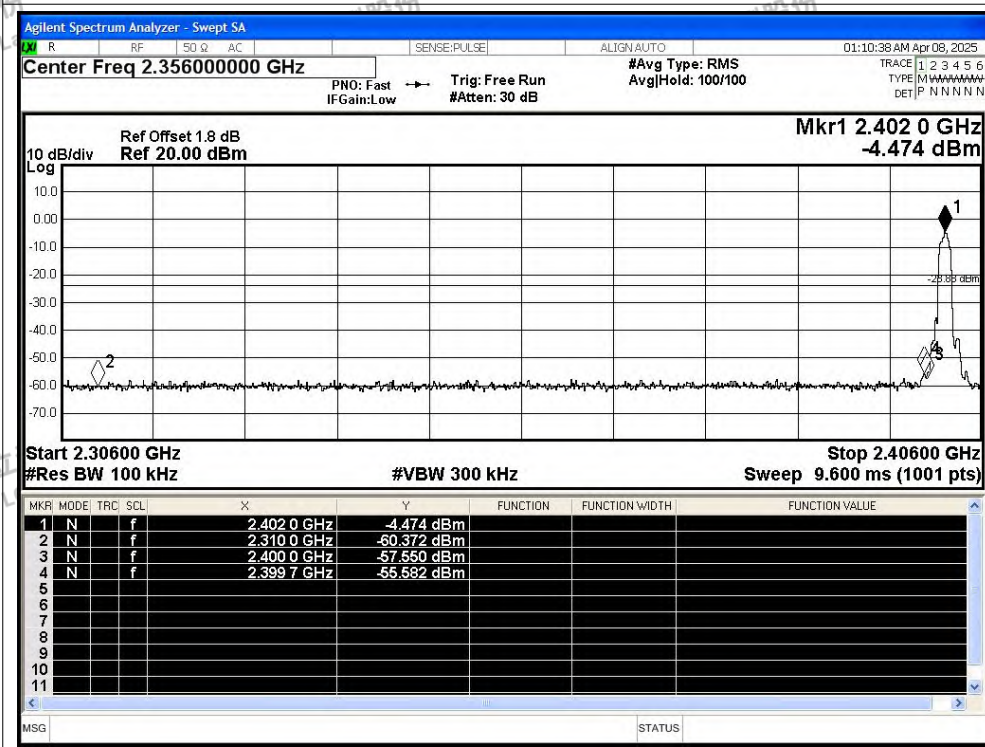
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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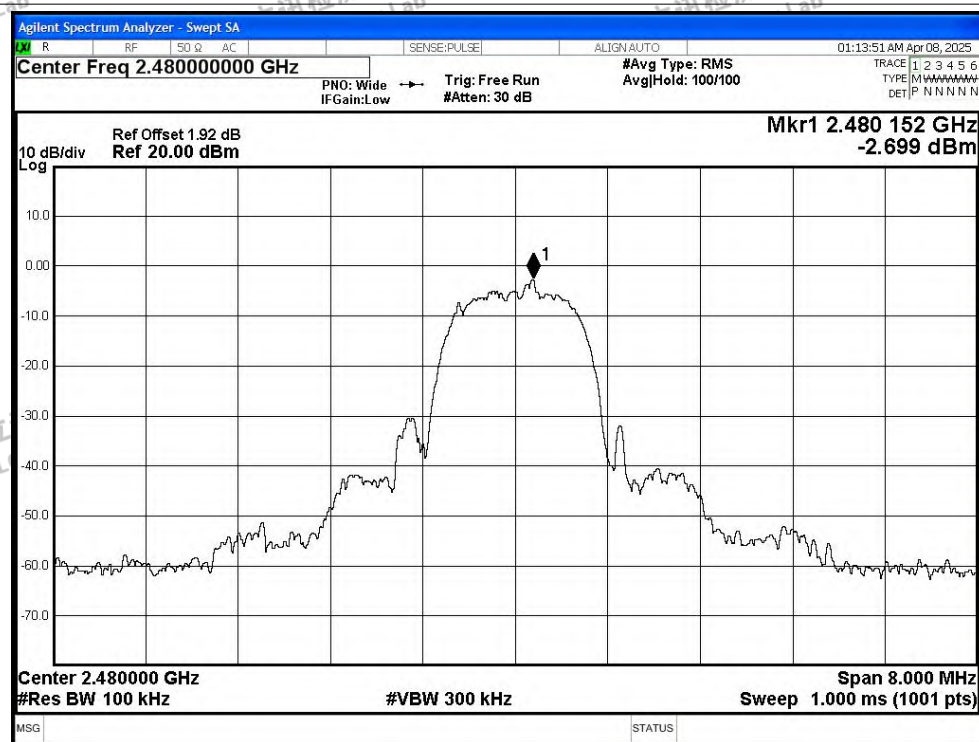
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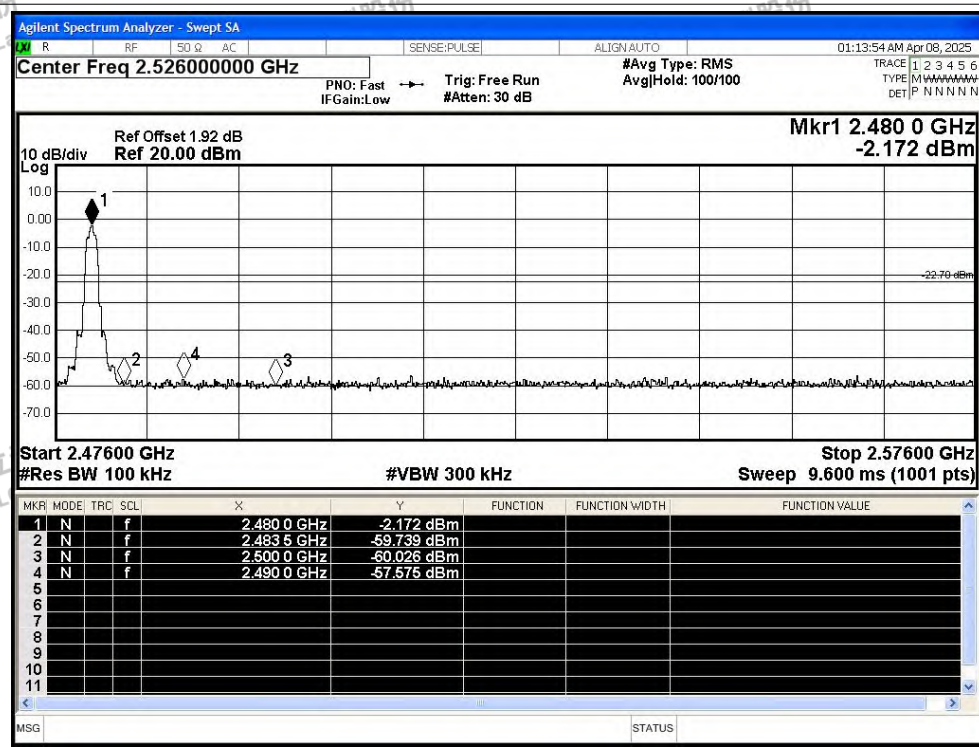
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-62.22	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-62.54	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-60.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.24	-20	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.

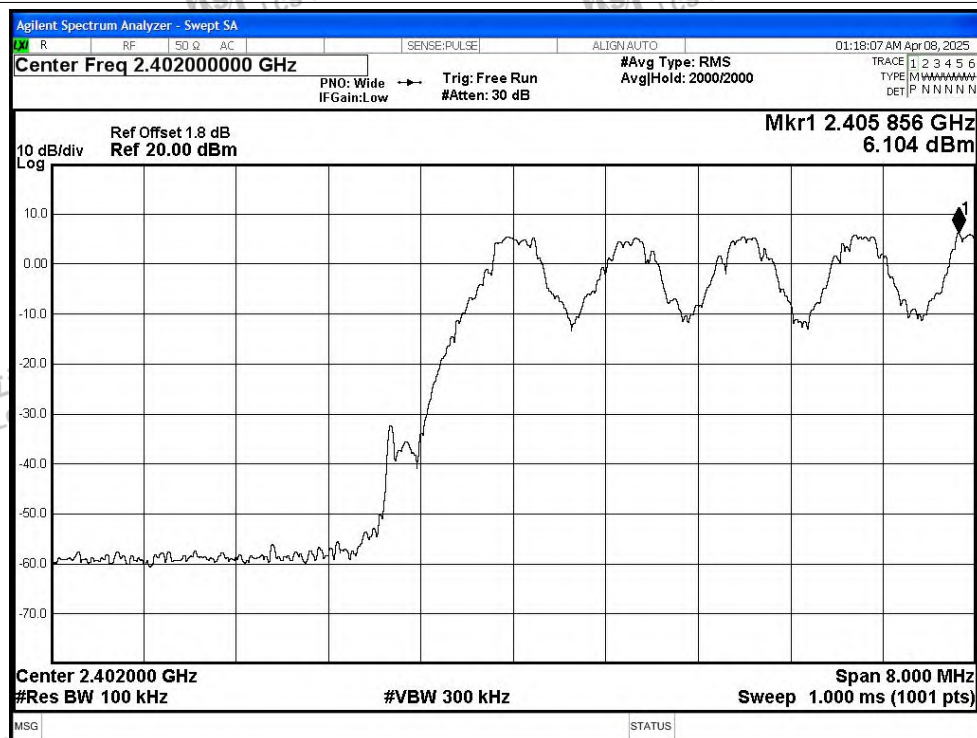


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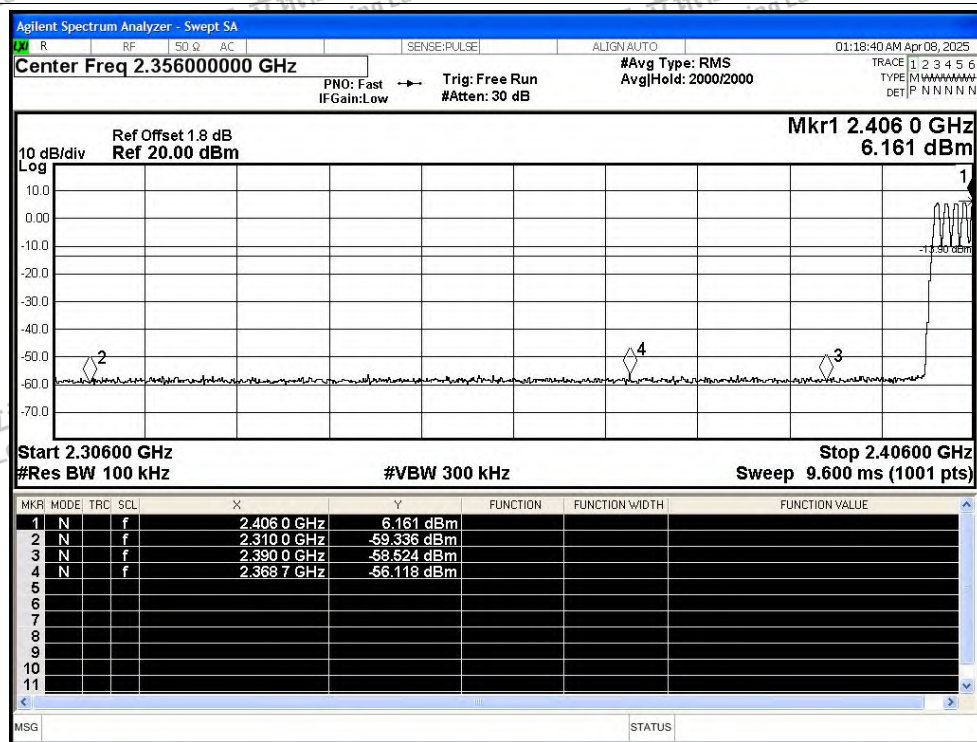


Test Graphs

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



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



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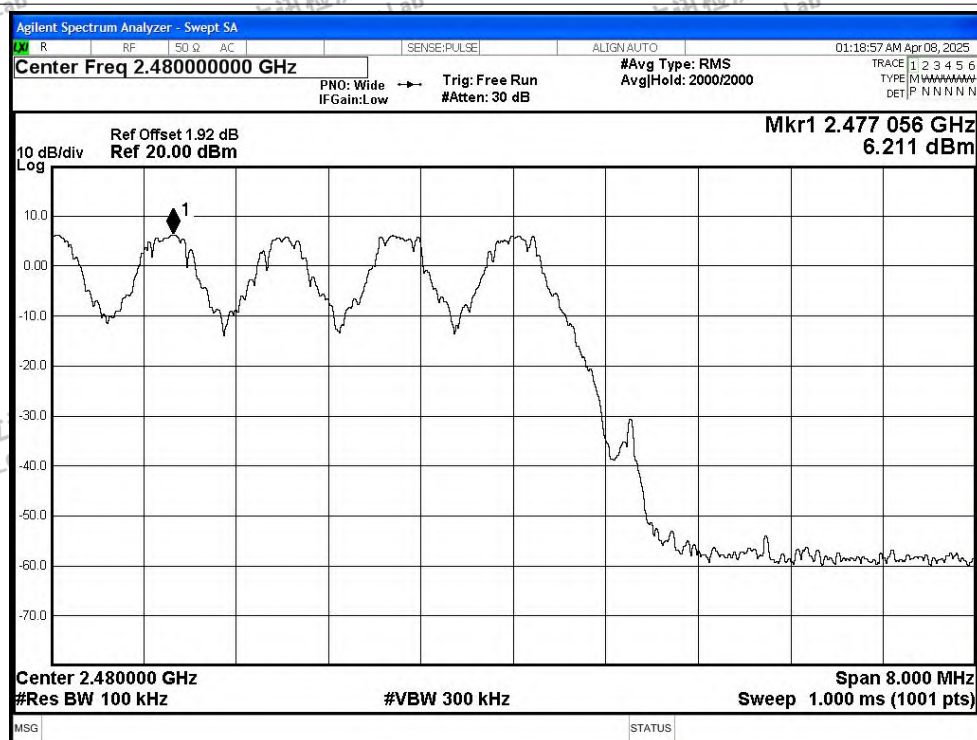
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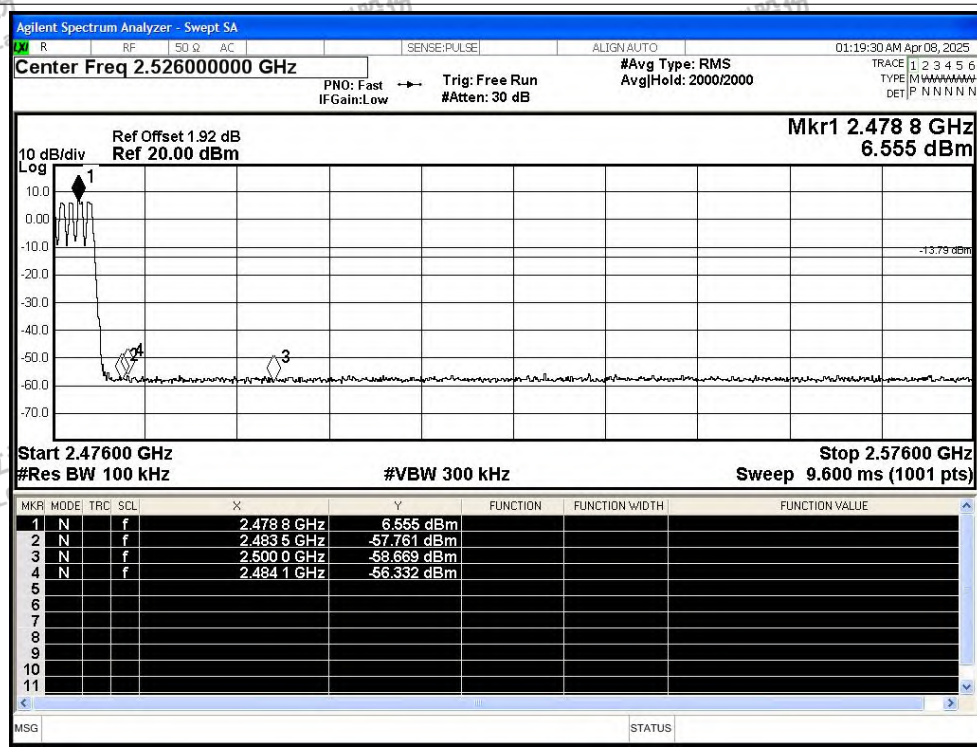
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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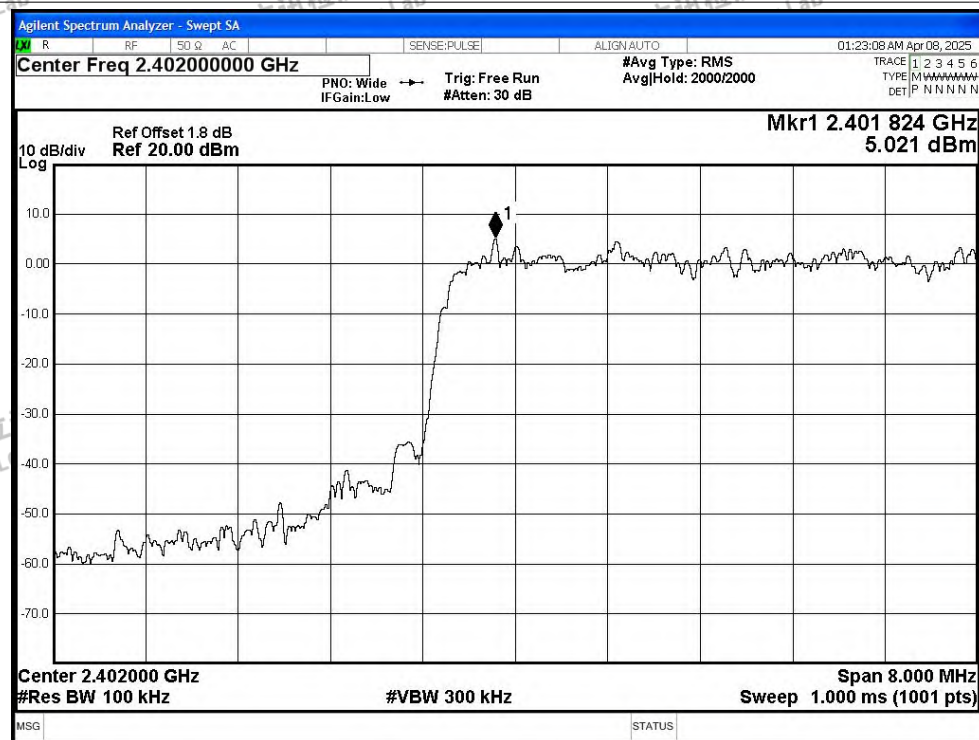
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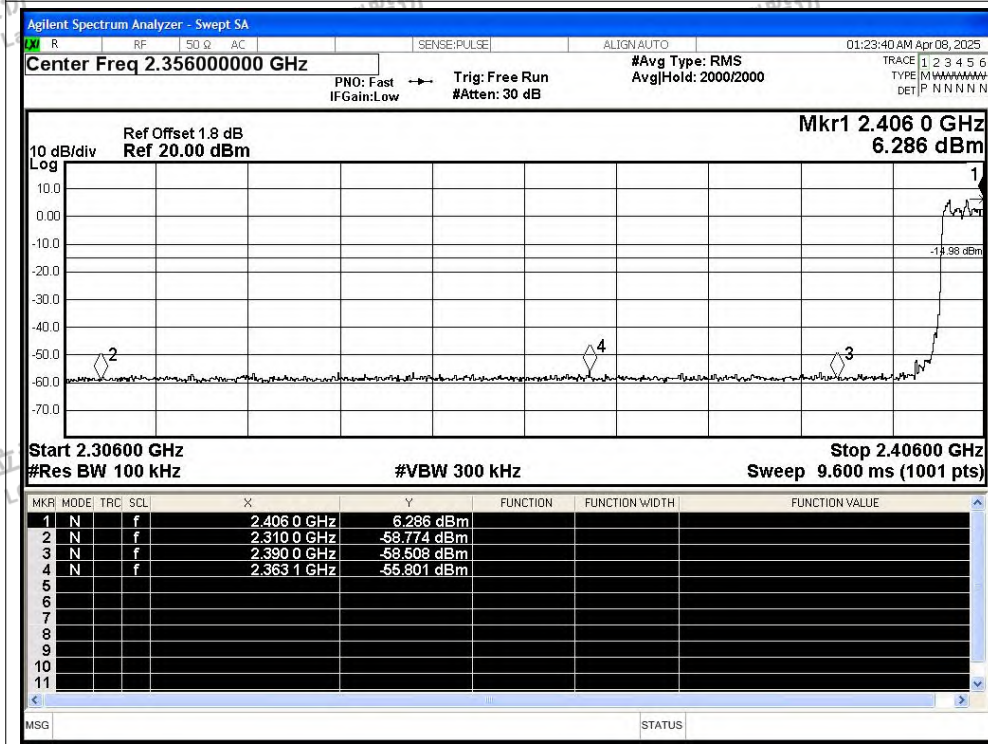
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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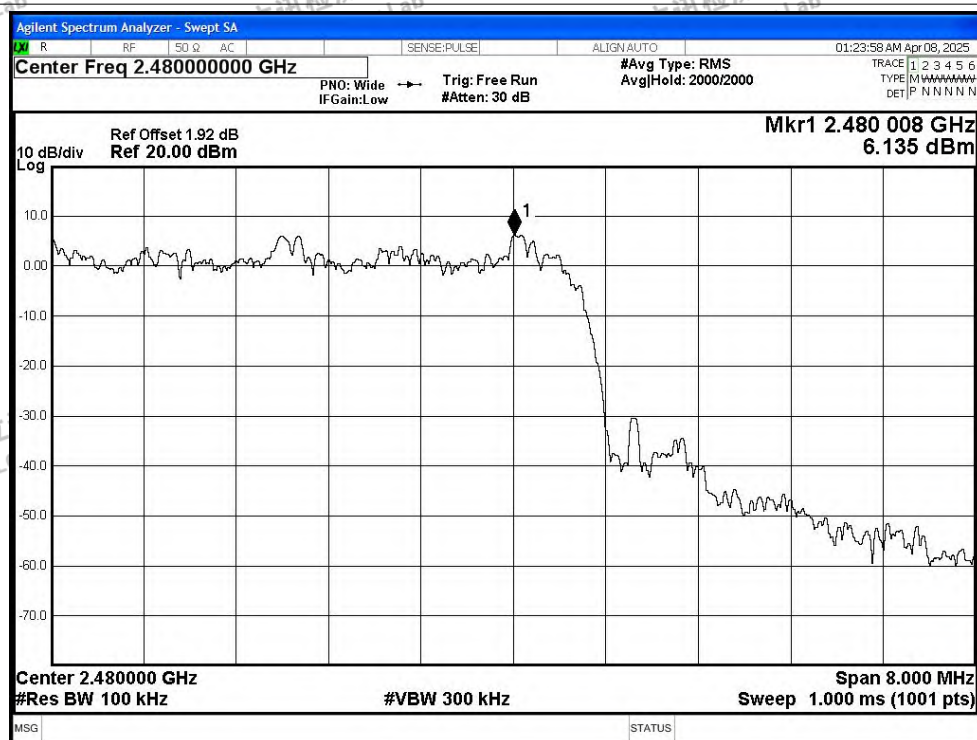
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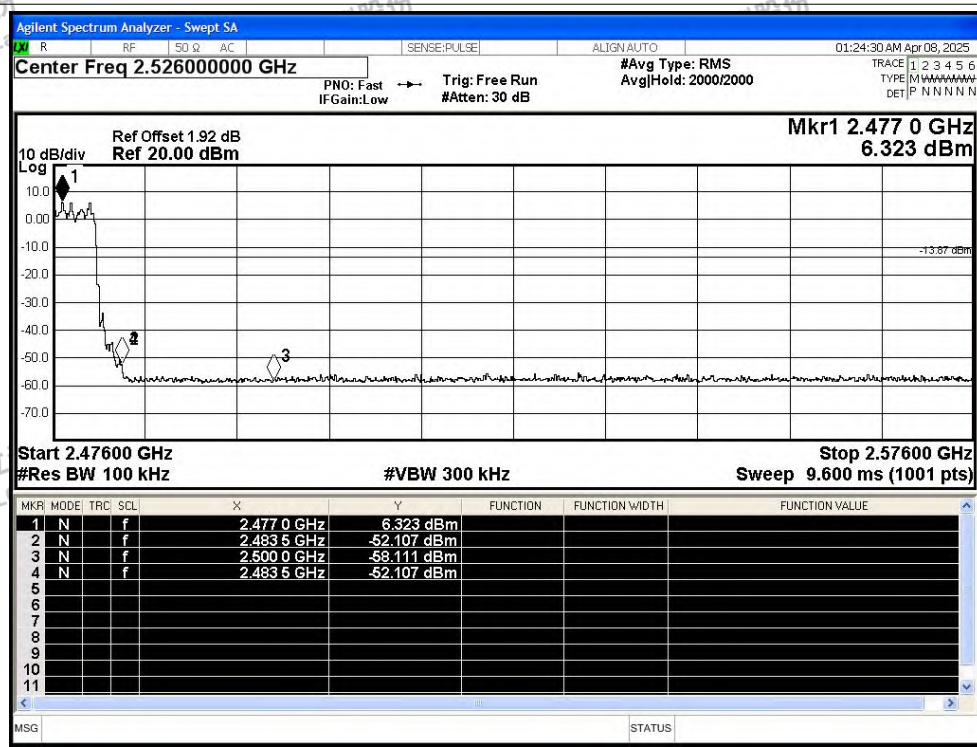
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.86	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.76	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.42	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.95	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.84	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.66	-20	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.



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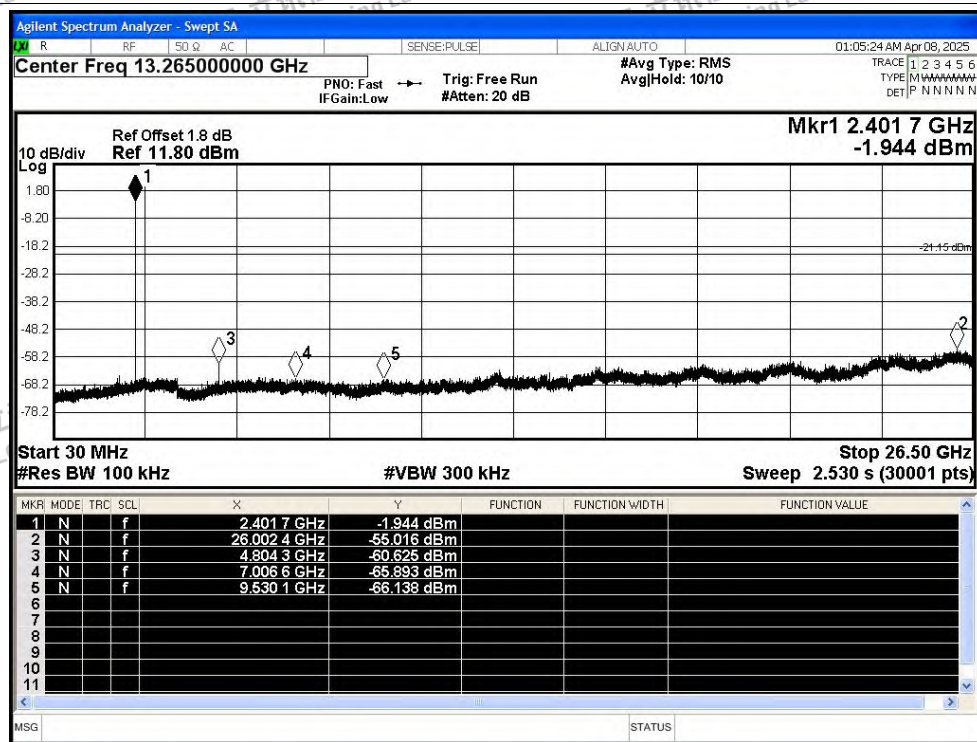


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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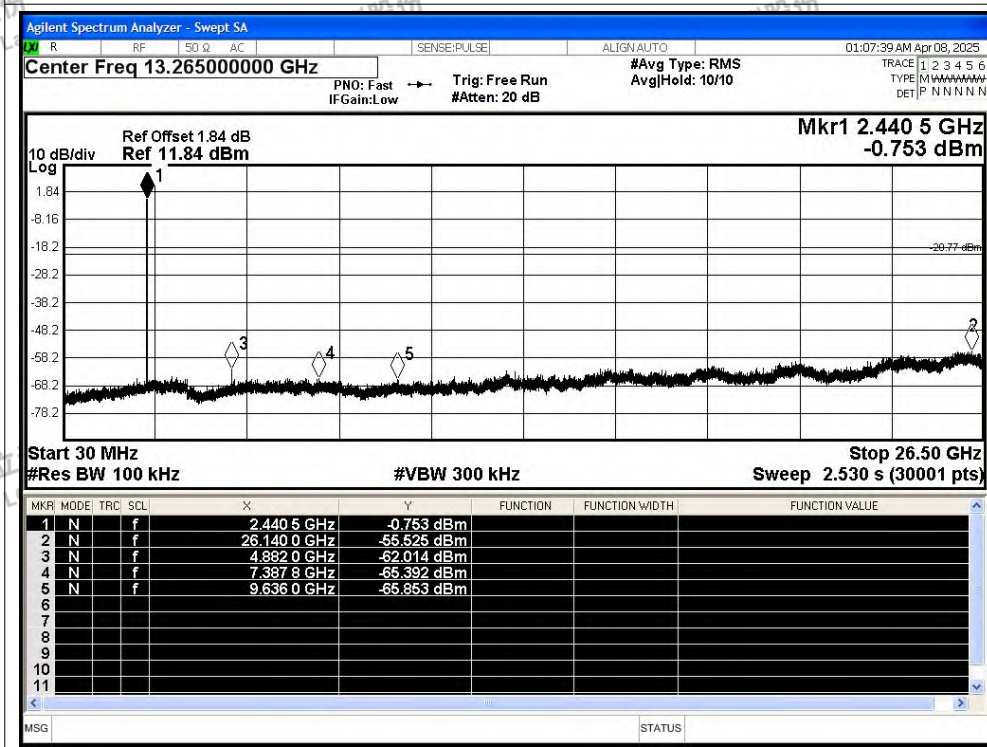
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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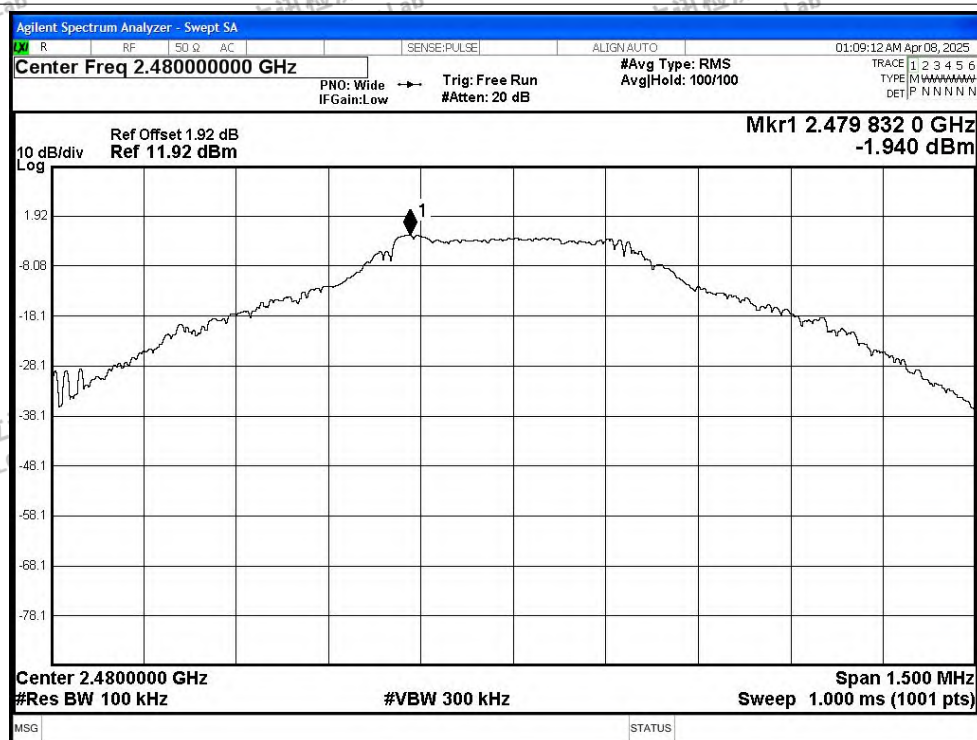
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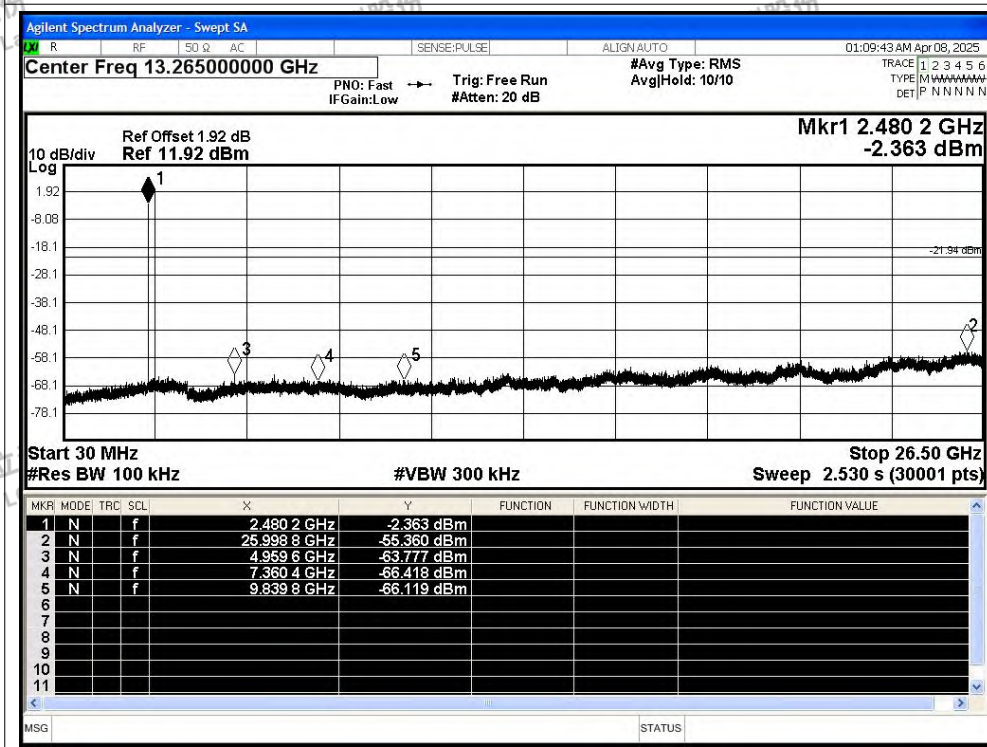
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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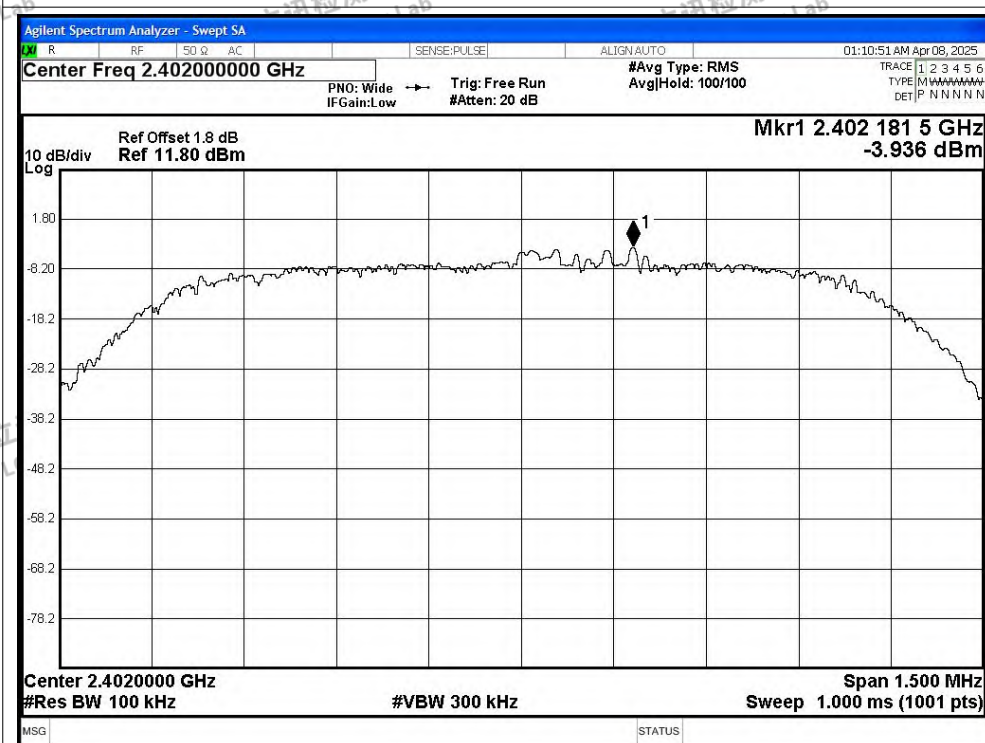
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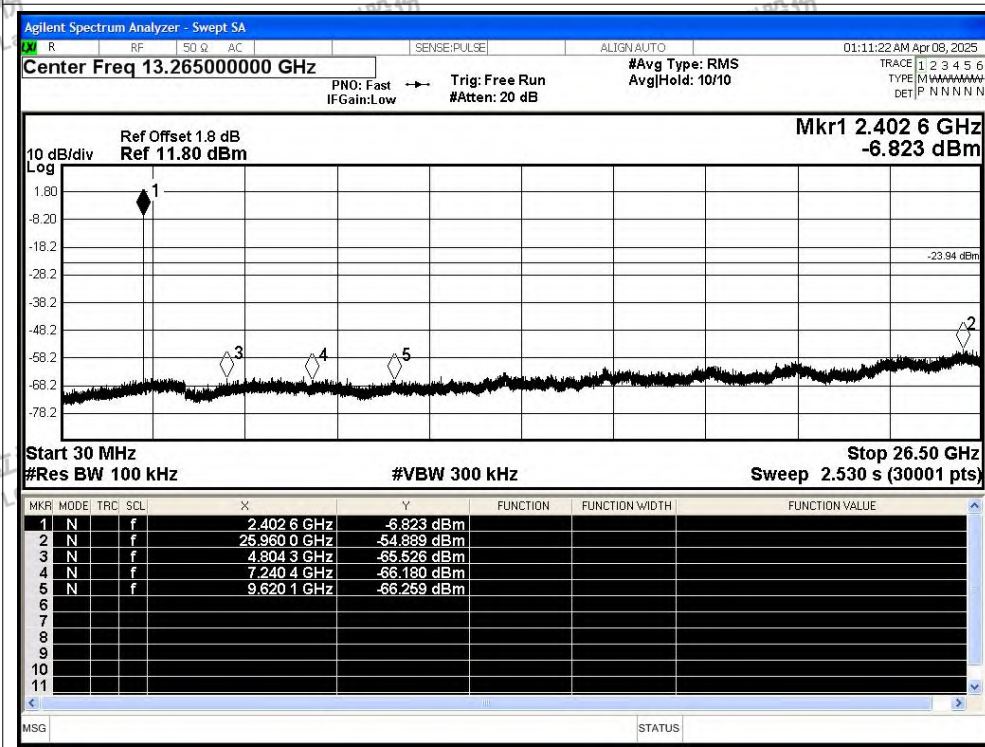
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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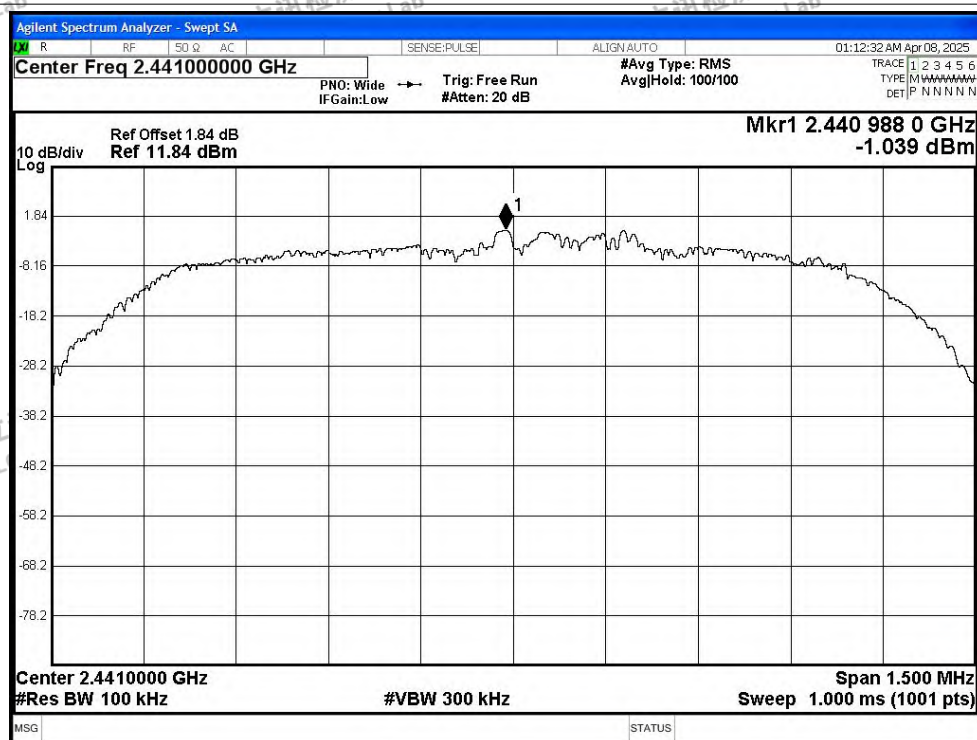
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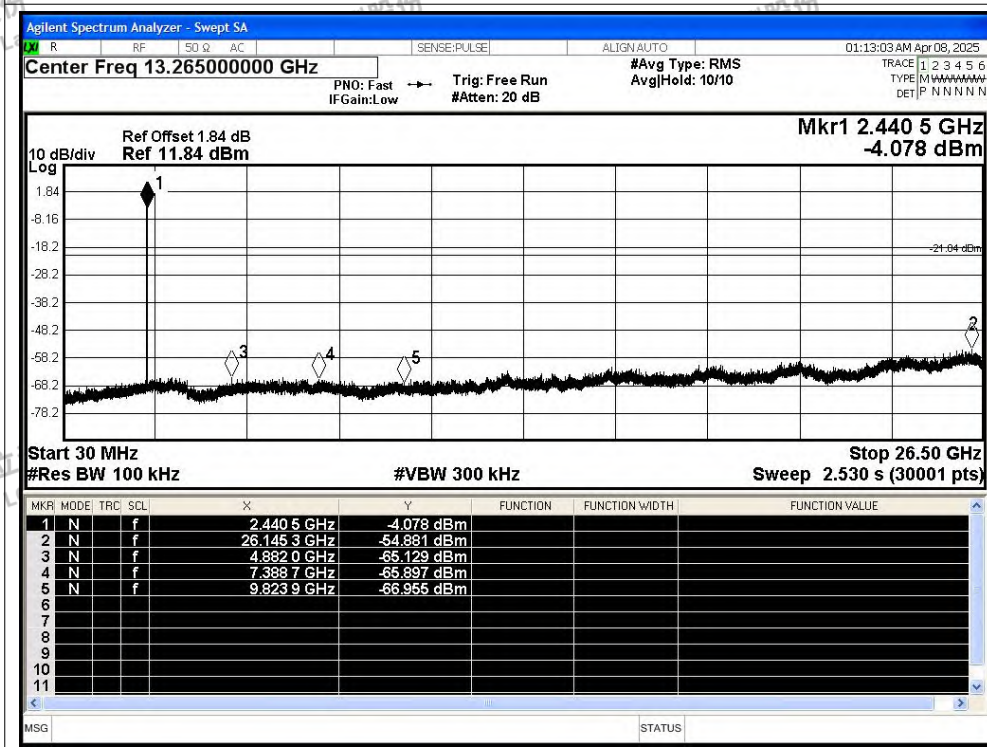
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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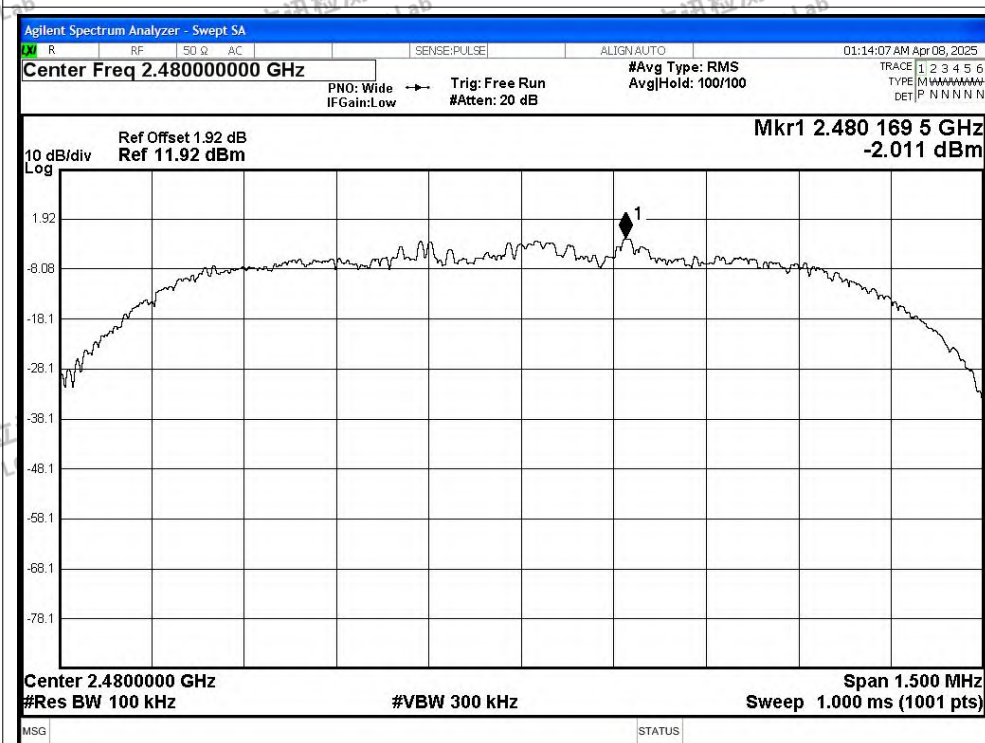
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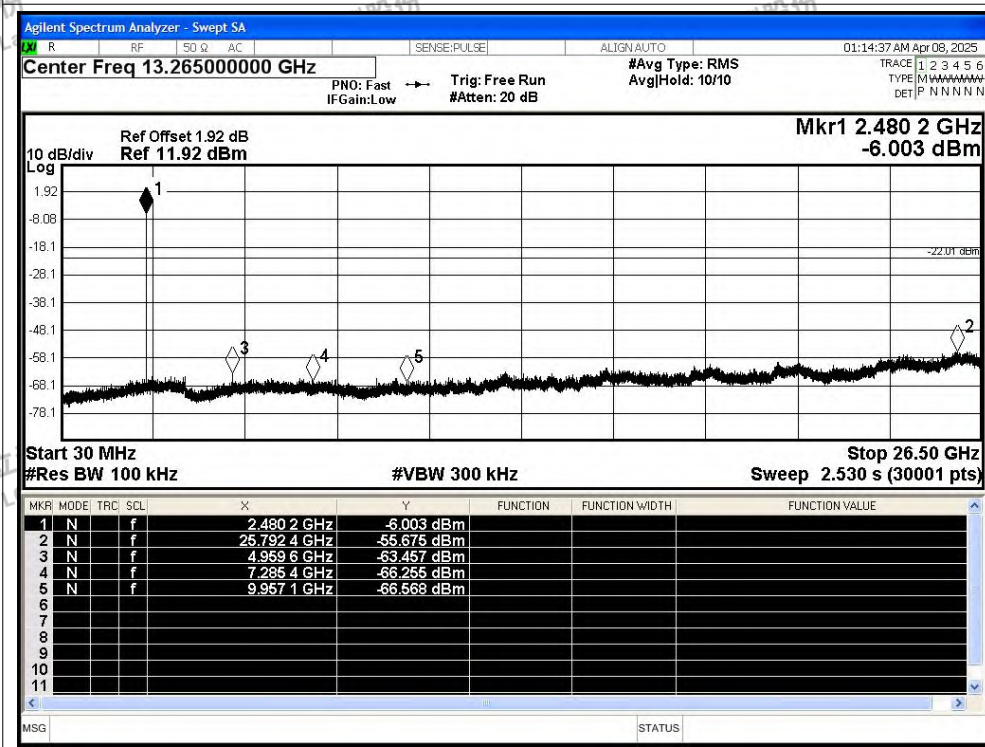
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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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	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	97.22	0.12	7.14
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	97.22	0.12	7.14

Note: Both ears have been tested, only the worst case right ear results in this report.

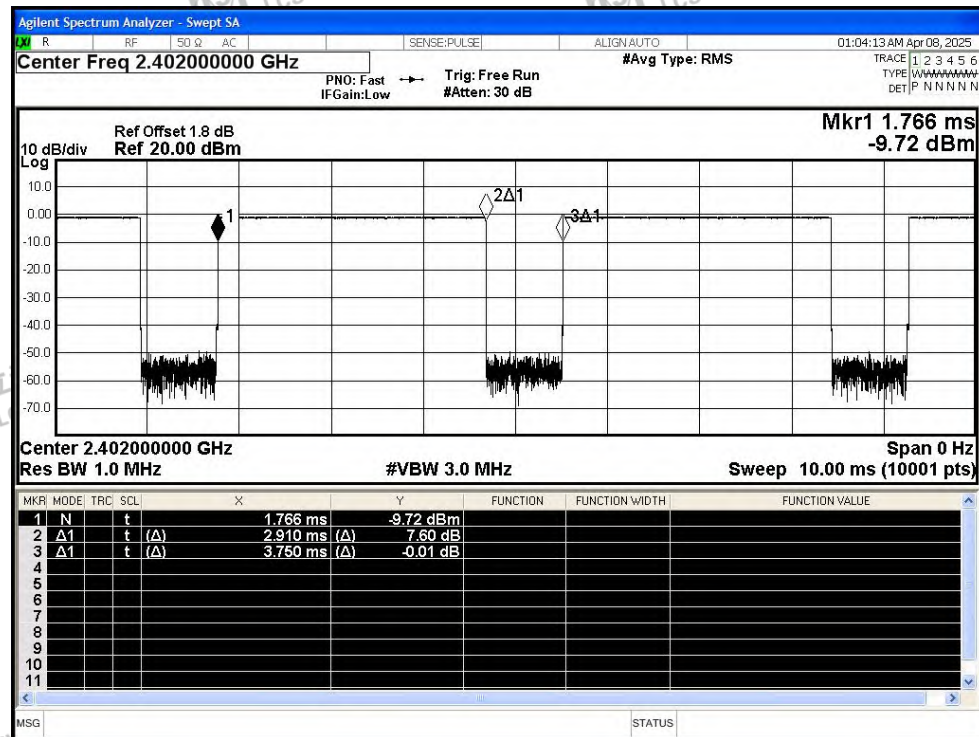


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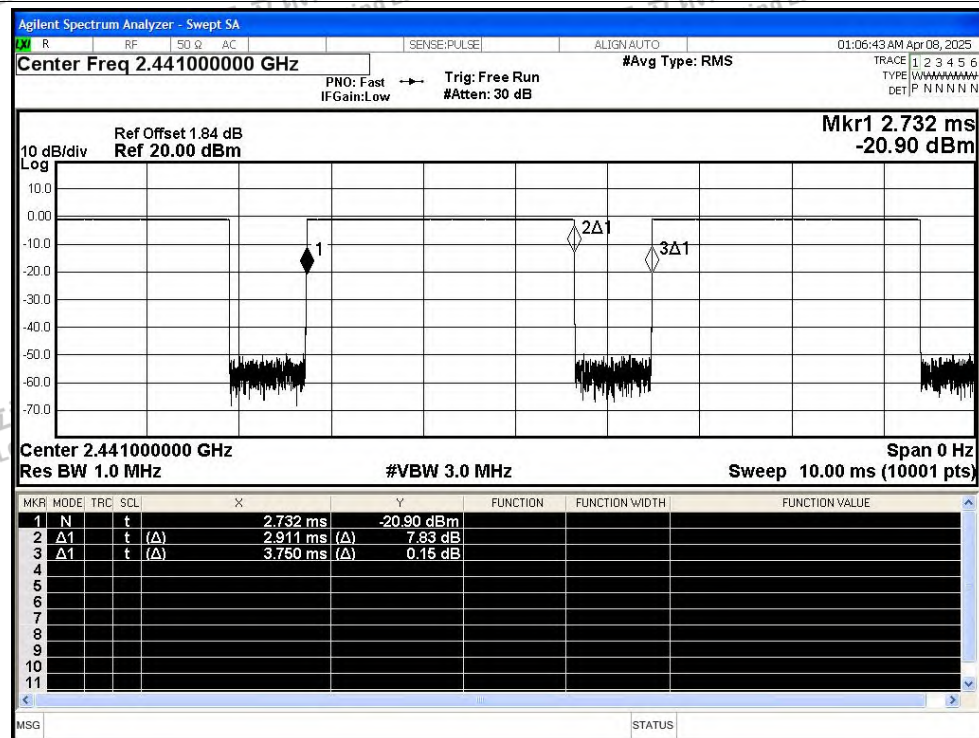


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

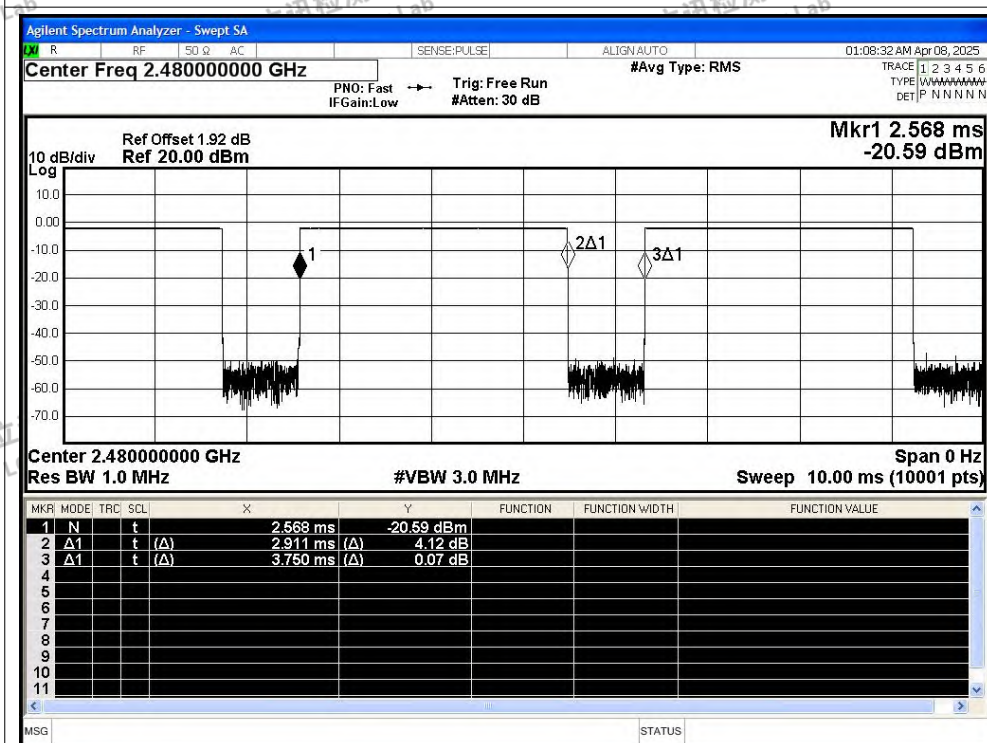
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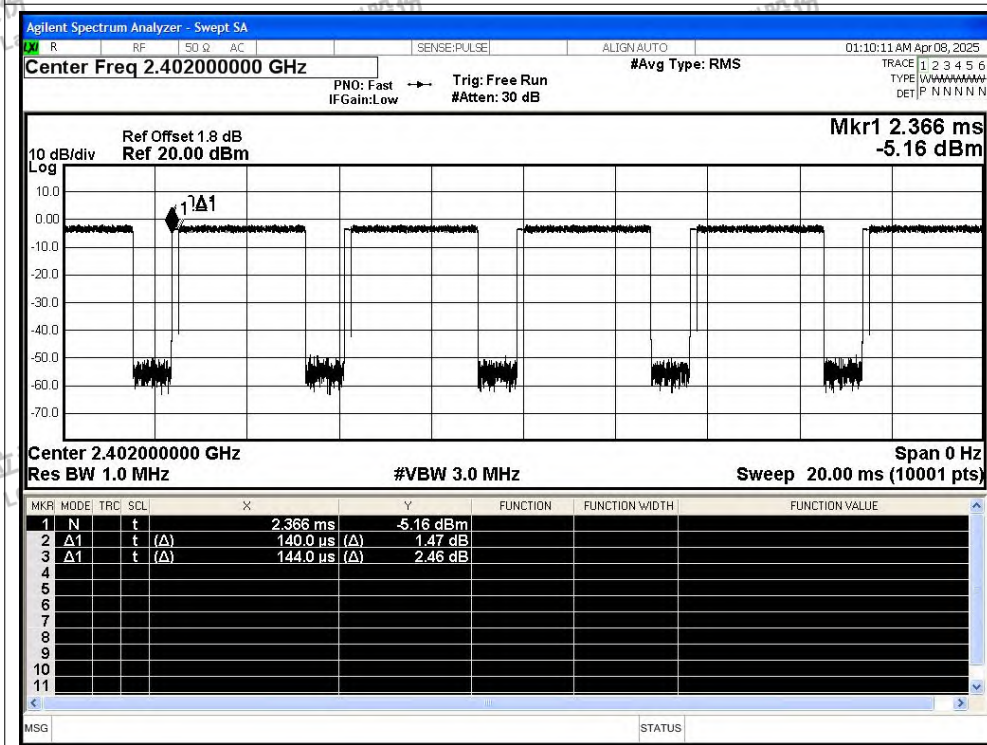
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



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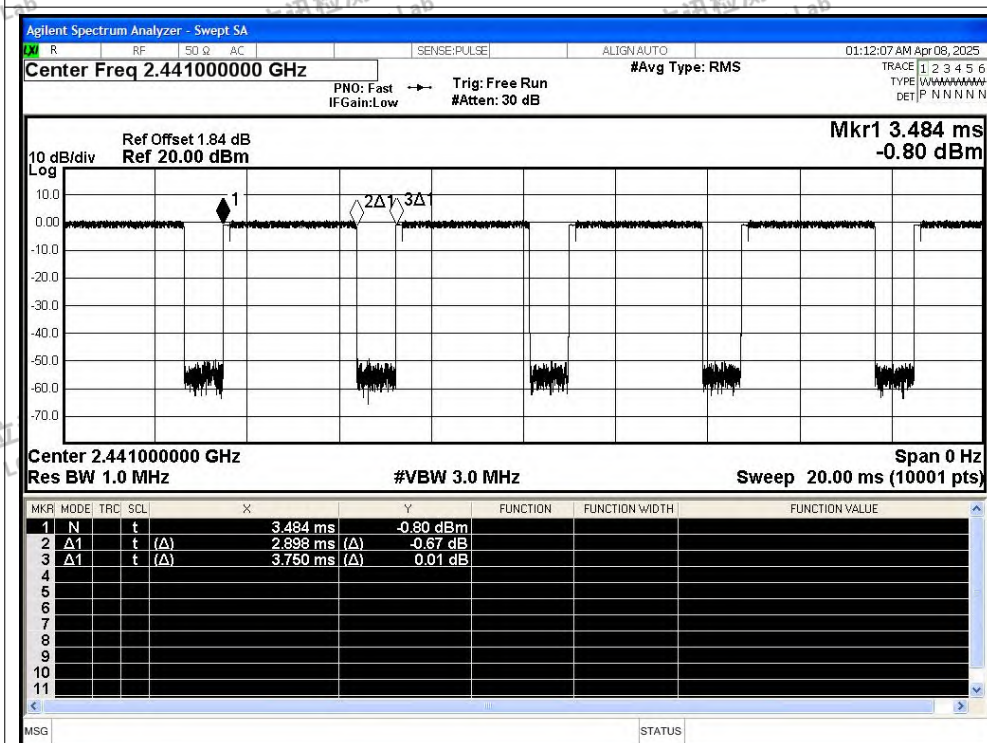
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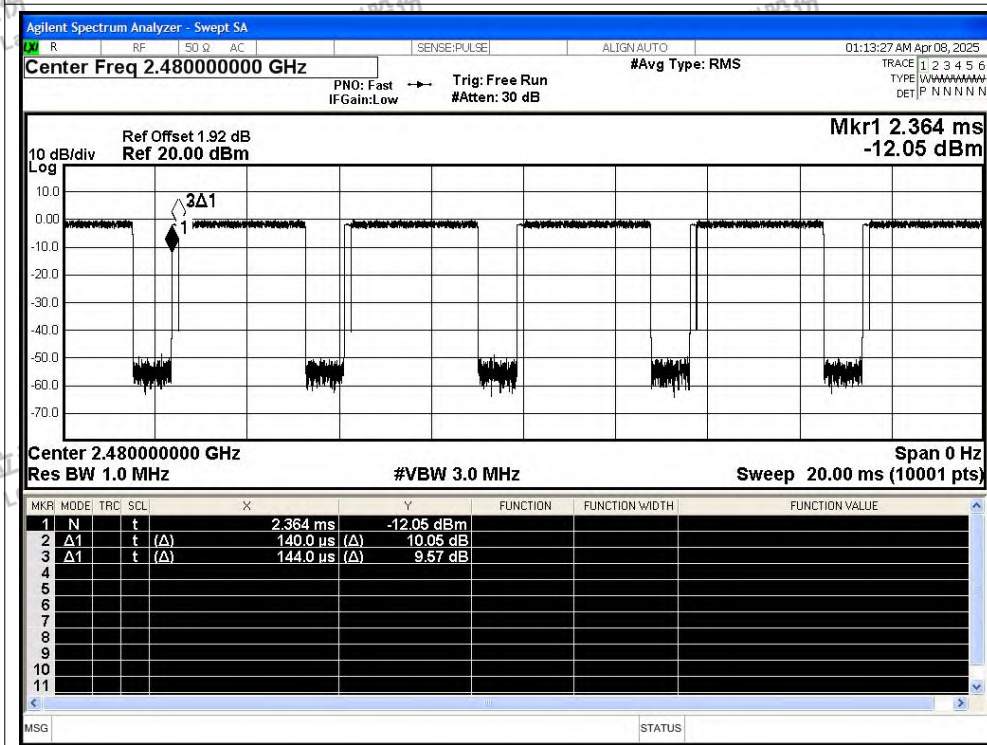
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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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	-51.2	2.78	-	46.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.84	2.78	1.1	40.30	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2327.472	-48.06	2.78	-	49.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2352.144	-57.87	2.78	1.1	41.27	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.95	2.78	-	48.09	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.39	2.78	1.1	40.75	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.39	2.78	-	47.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.92	2.78	1.1	41.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.344	-45.6	2.78	-	52.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.76	-57.38	2.78	1.1	41.76	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.4	2.78	-	47.64	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.38	2.78	1.1	40.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.51	2.78	-	49.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.05	2.78	0.12	39.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2371.824	-47.93	2.78	-	50.11	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.072	-57.97	2.78	0.12	40.19	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.88	2.78	-	48.16	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.96	2.78	0.12	39.20	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.43	2.78	-	48.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.68	2.78	0.12	40.48	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.096	-44.67	2.78	-	53.37	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.584	-57.01	2.78	0.12	41.15	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.85	2.78	-	47.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.74	2.78	0.12	39.42	Average	54	Pass

Note: Both ears have been tested, only the worst case right ear results in this report.



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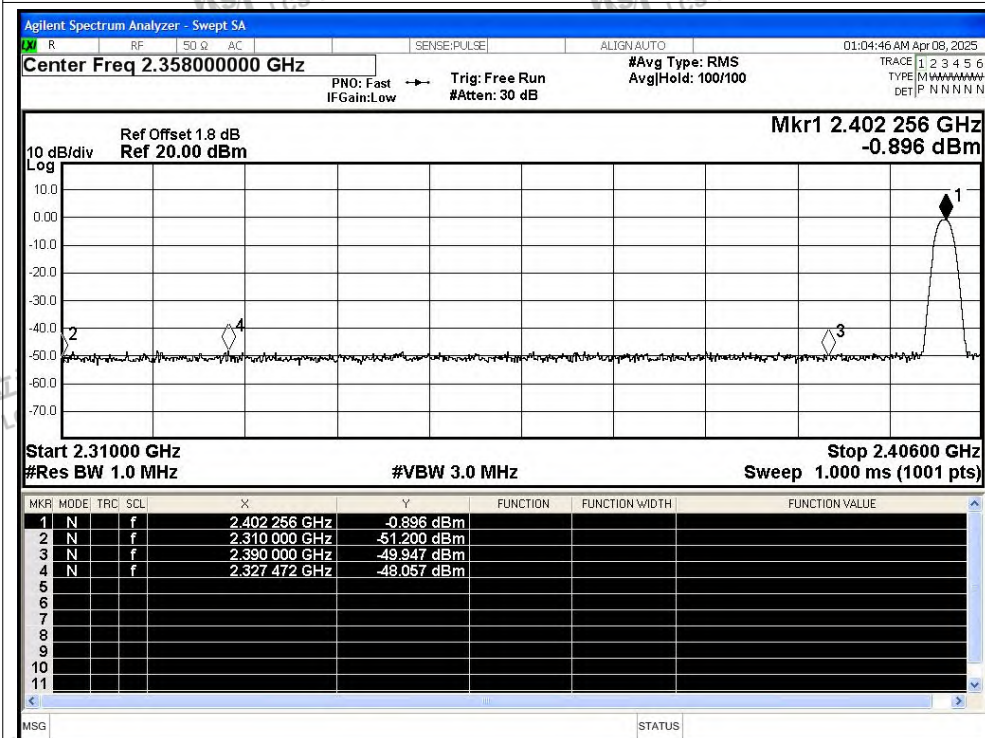
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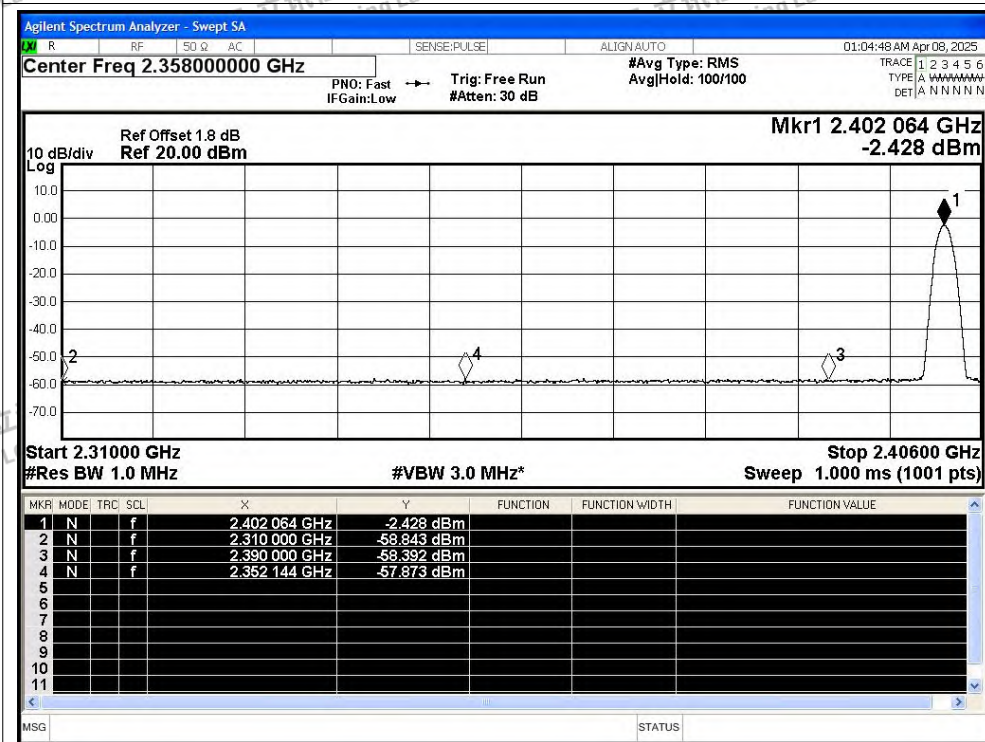


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



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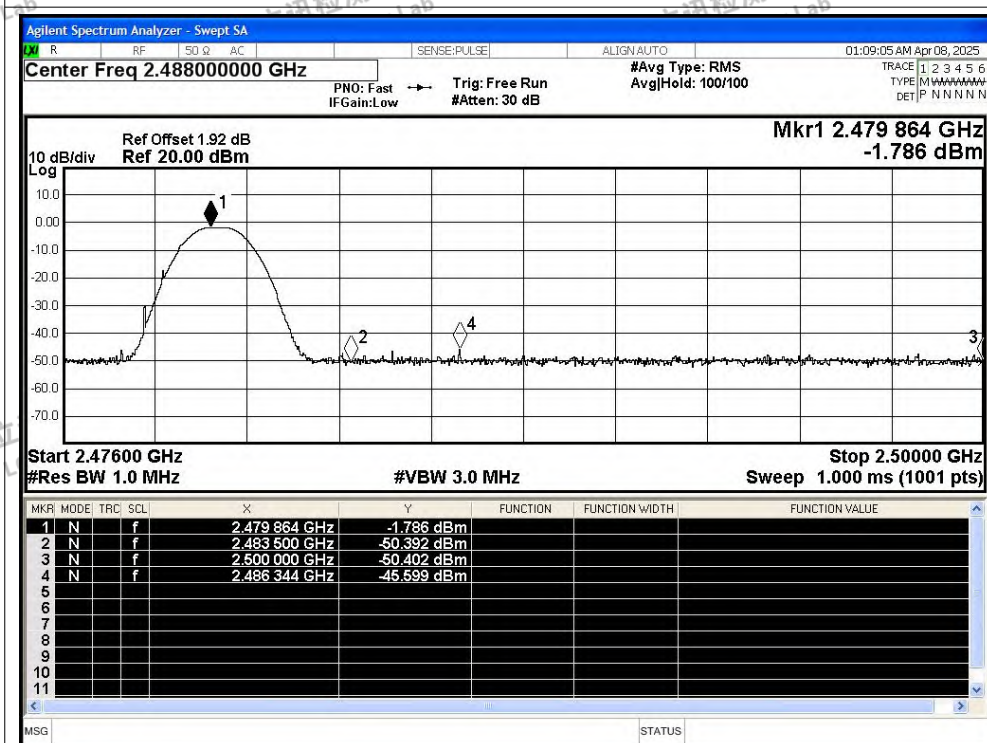
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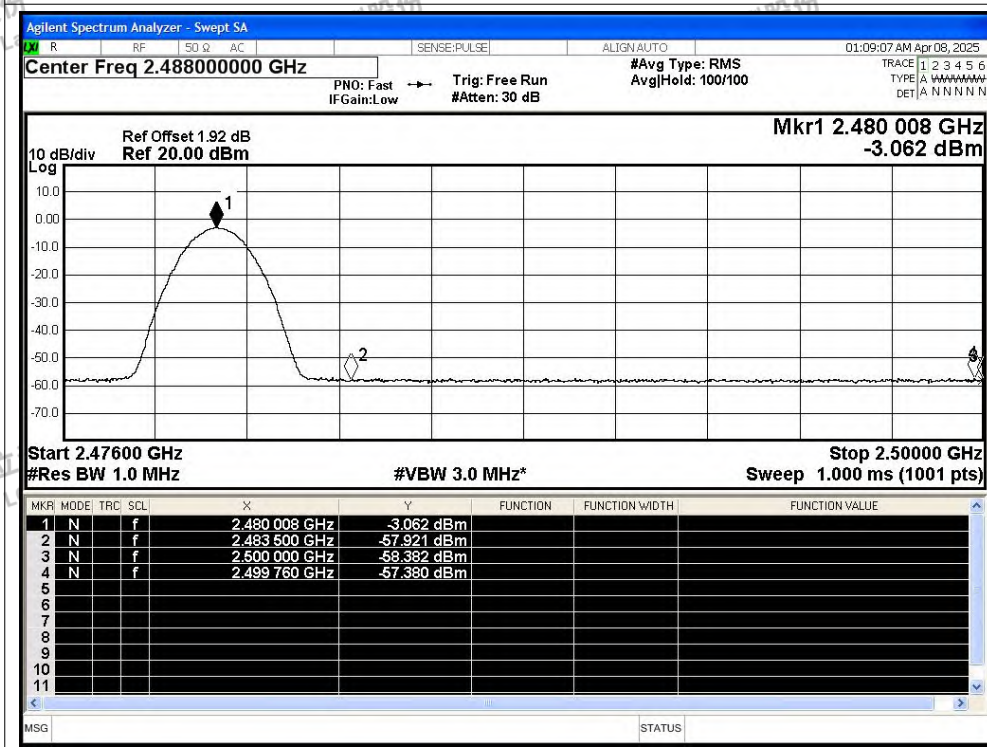
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



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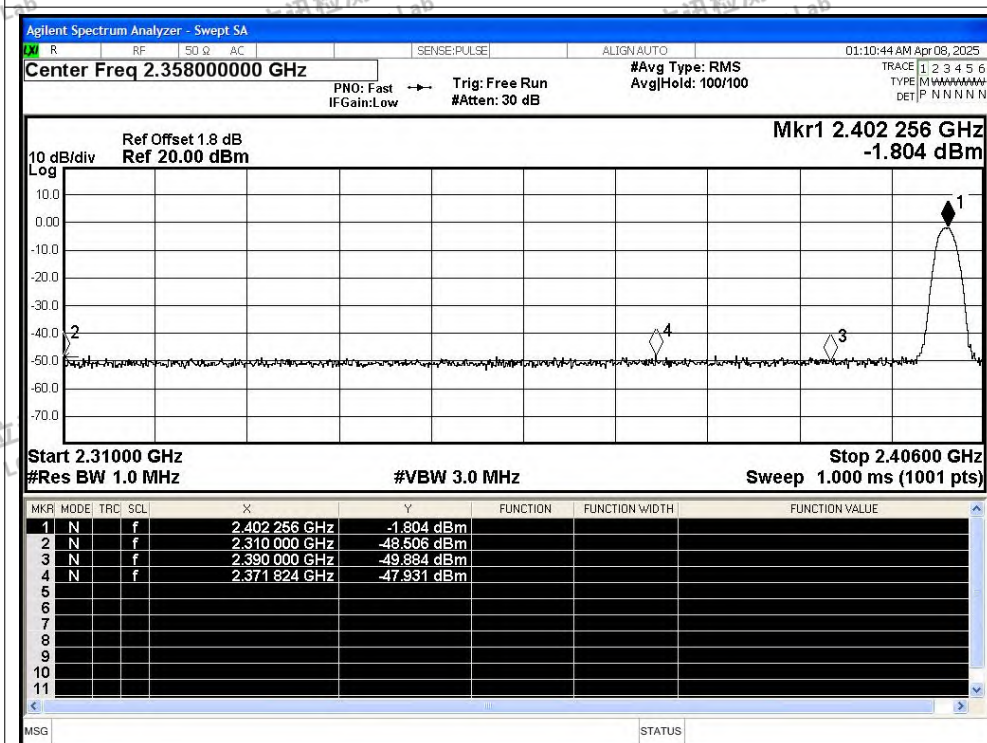
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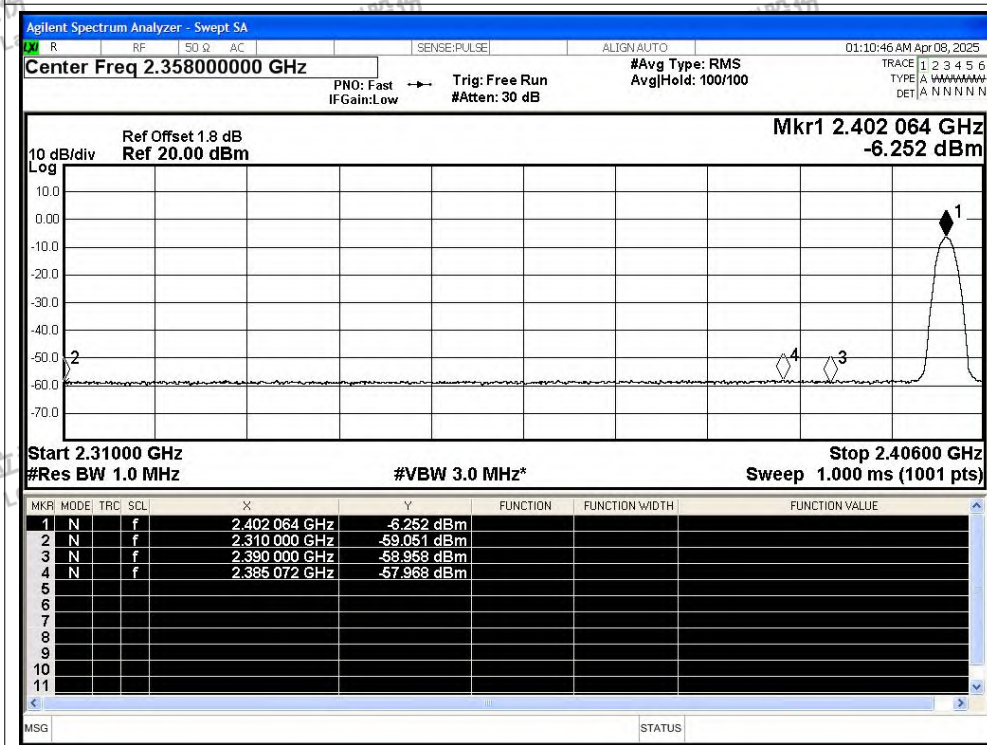
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



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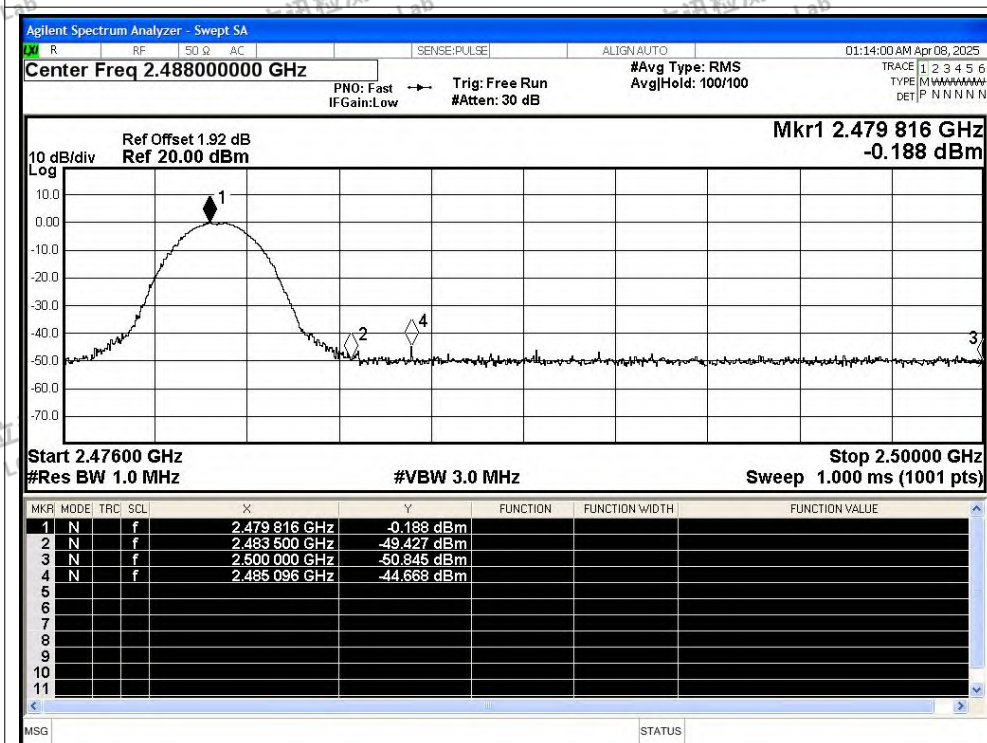
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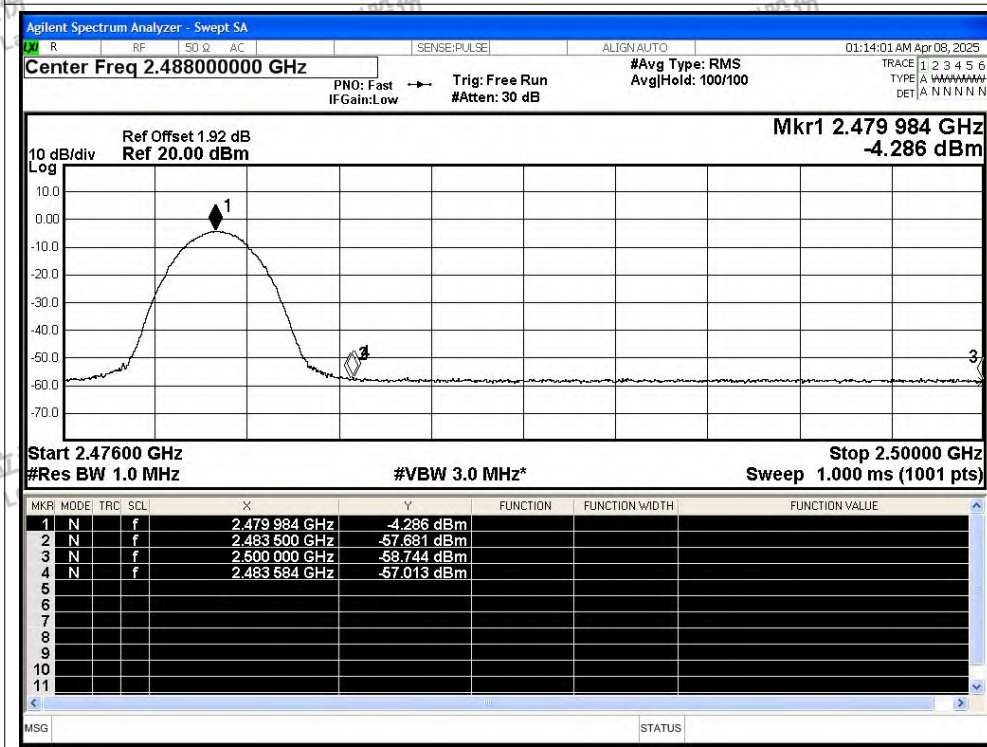
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



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