



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Formuler Z12 Pro

Test Model: Z12 Pro

Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.9411	0	Pass
NVNT	1-DH5	2441	Ant	1.033	0	Pass
NVNT	1-DH5	2480	Ant	0.9543	0	Pass
NVNT	2-DH5	2402	Ant	1.288	0	Pass
NVNT	2-DH5	2441	Ant	1.288	0	Pass
NVNT	2-DH5	2480	Ant	1.284	0	Pass
NVNT	3-DH5	2402	Ant	1.311	0	Pass
NVNT	3-DH5	2441	Ant	1.311	0	Pass
NVNT	3-DH5	2480	Ant	1.309	0	Pass

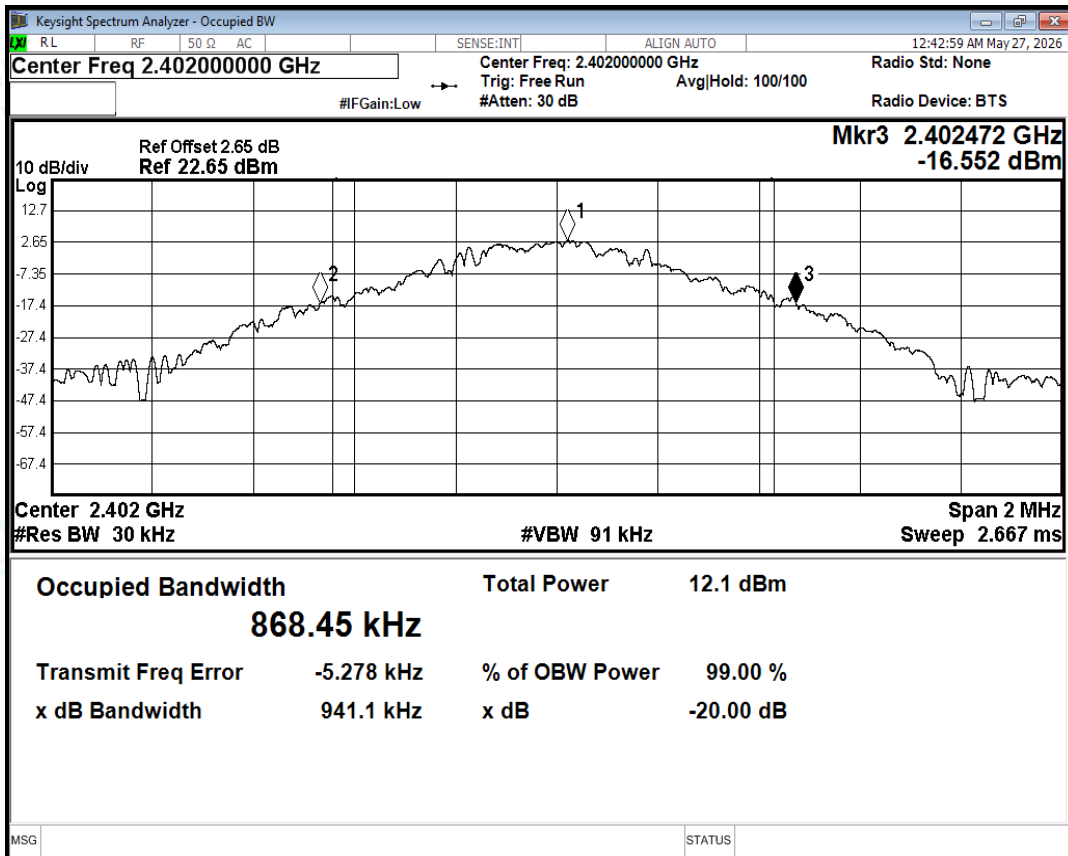


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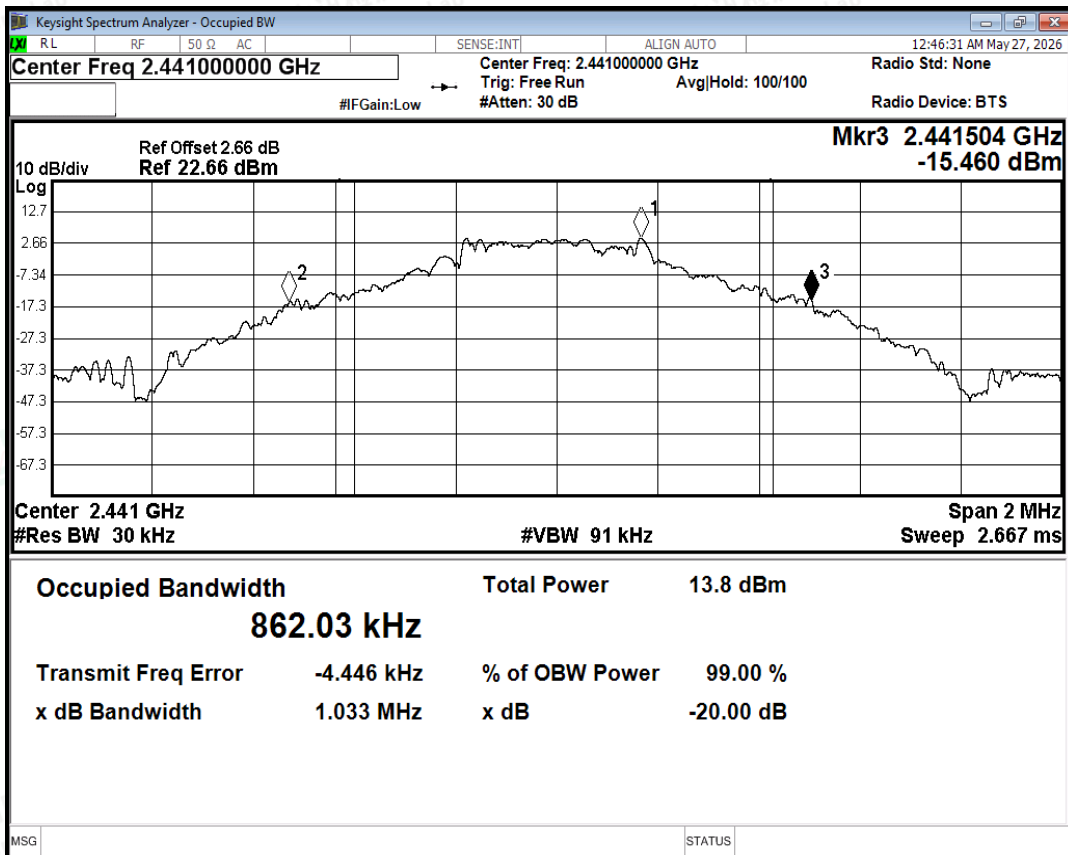
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-20dB Bandwidth NVNT 1-DH5 2402MHz Ant



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

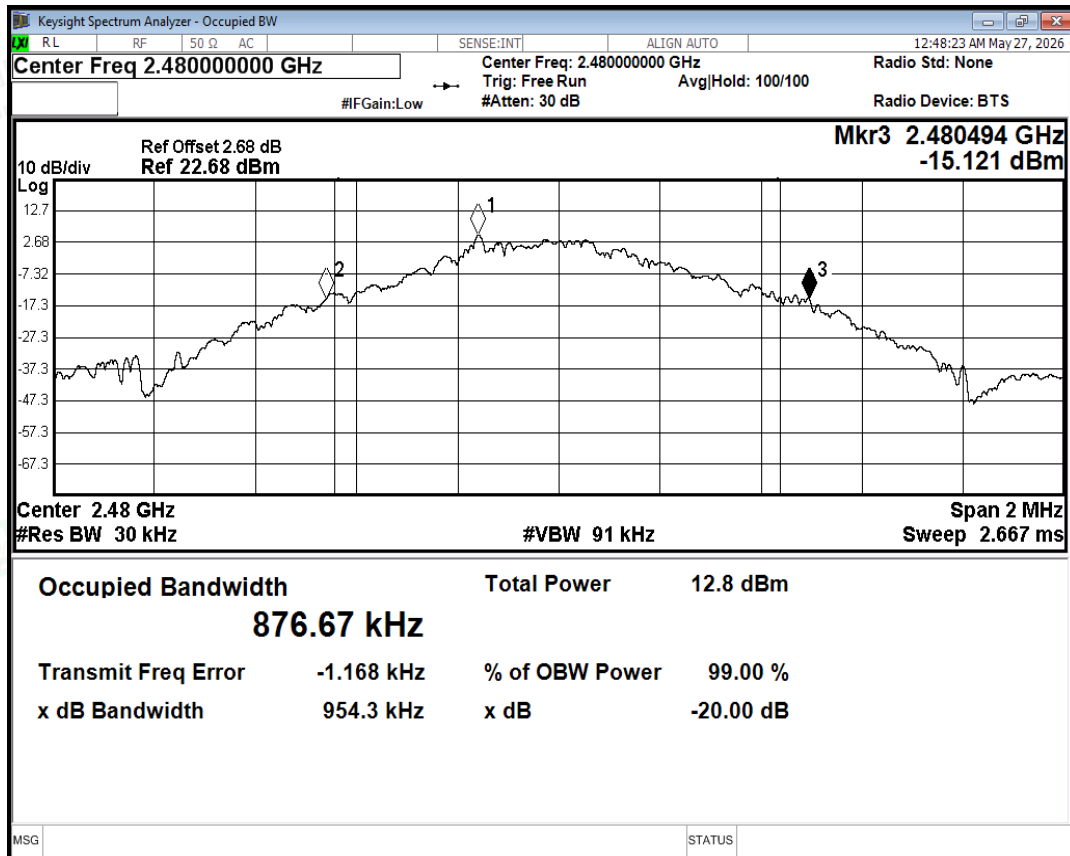


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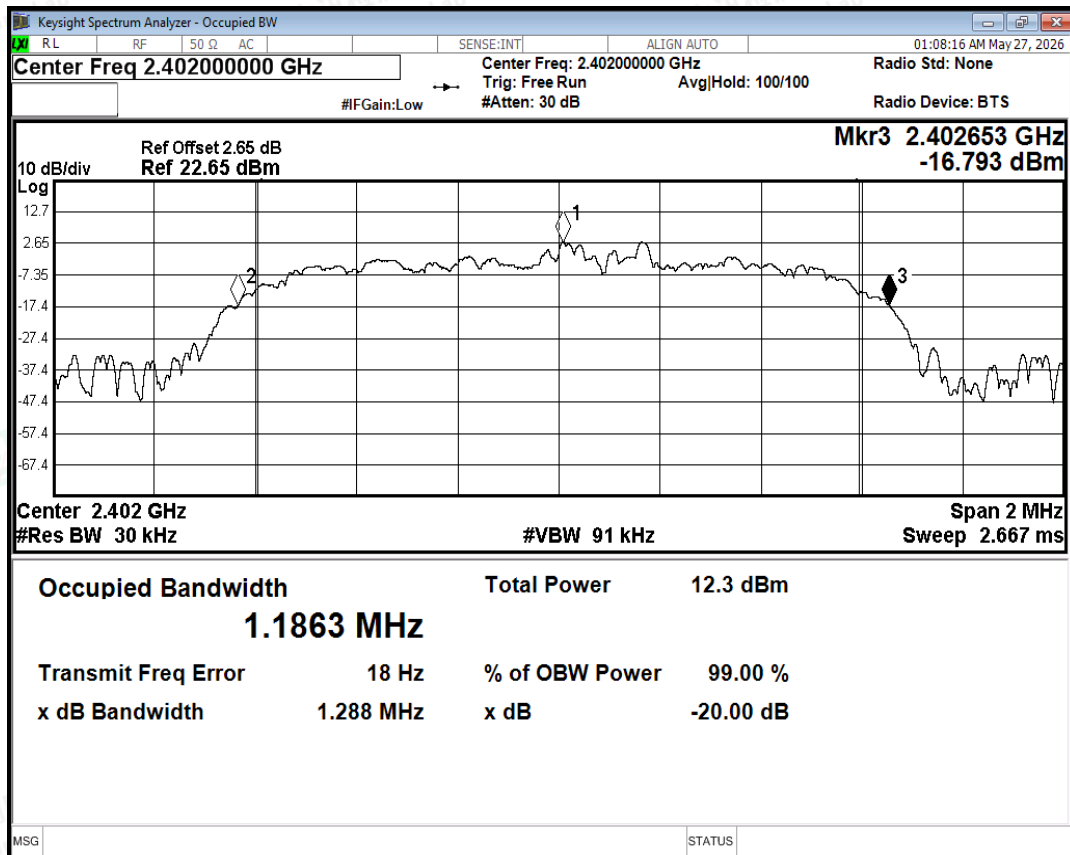
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

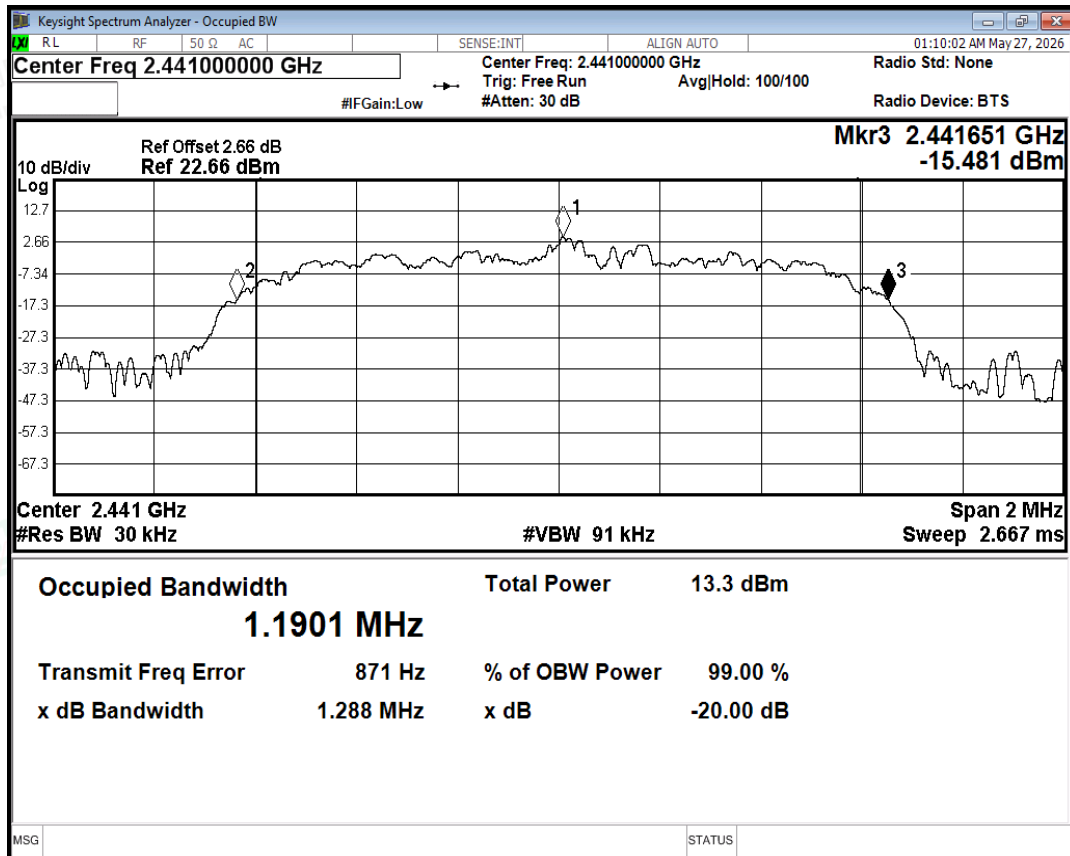


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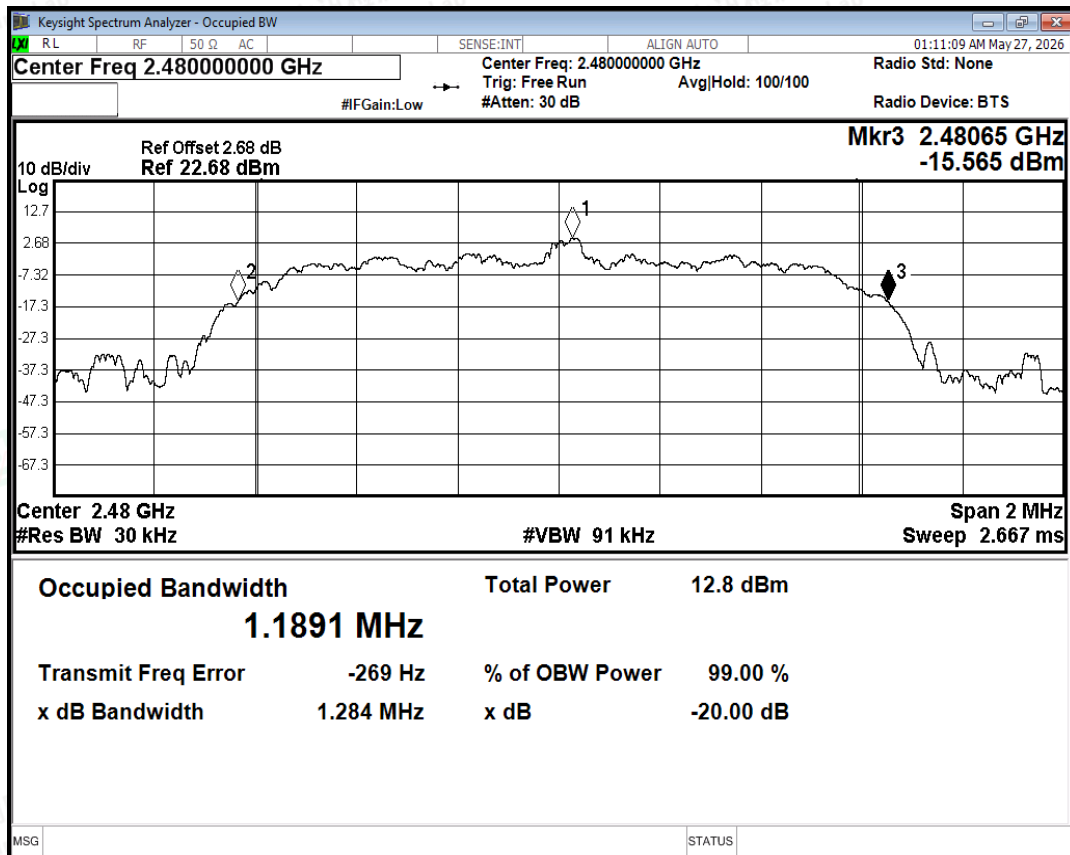
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

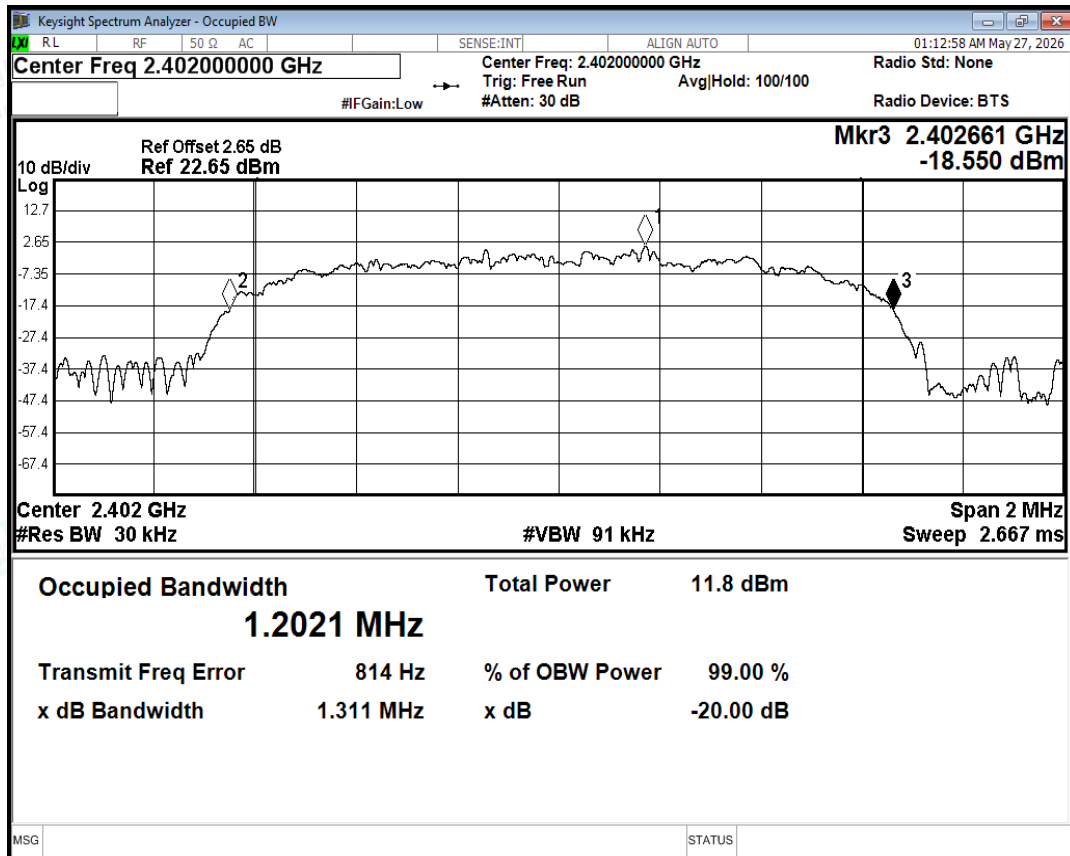


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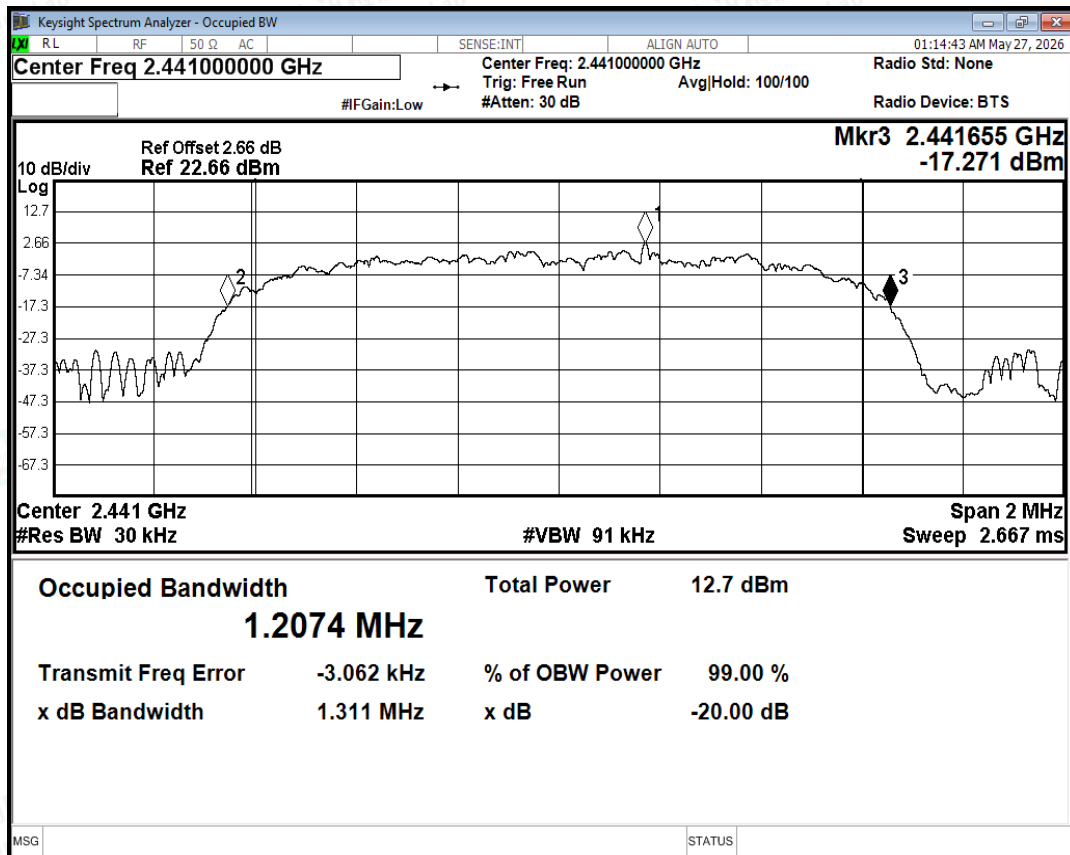
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant

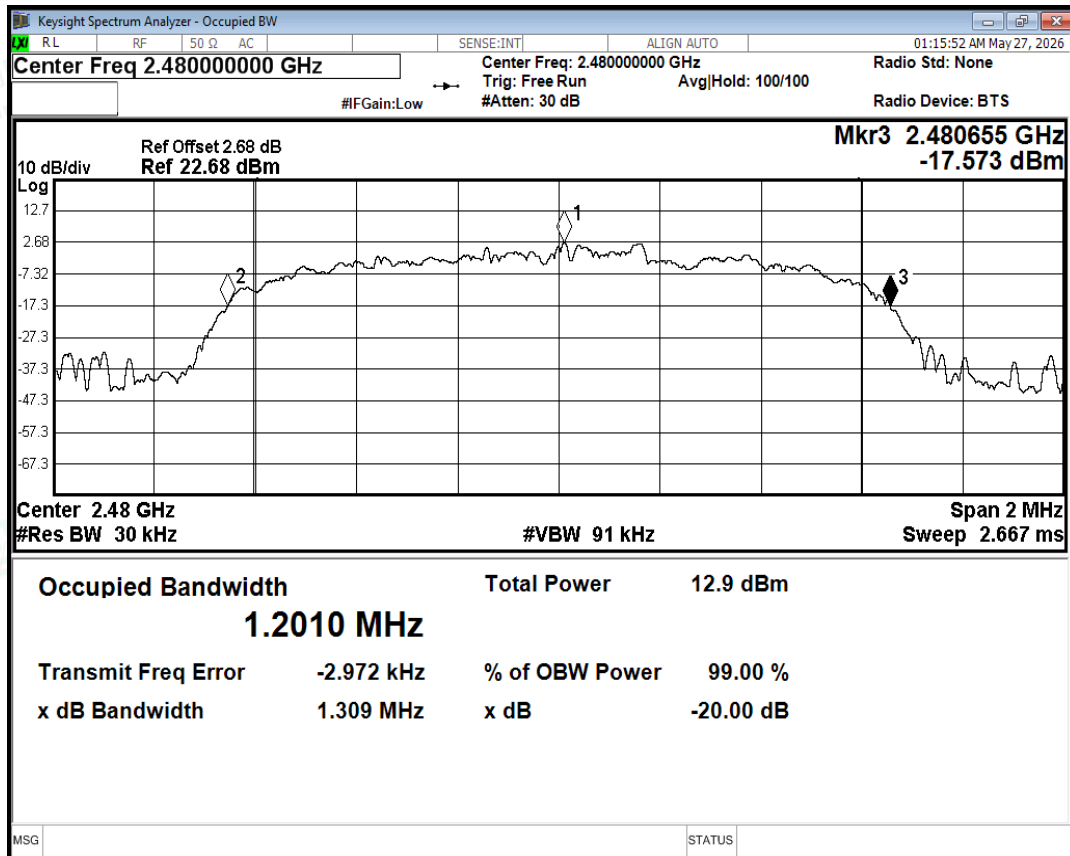


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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	6.01	21	Pass
NVNT	1-DH5	2441	Ant	7.17	21	Pass
NVNT	1-DH5	2480	Ant	6.7	21	Pass
NVNT	2-DH5	2402	Ant	7.56	21	Pass
NVNT	2-DH5	2441	Ant	8.72	21	Pass
NVNT	2-DH5	2480	Ant	8.13	21	Pass
NVNT	3-DH5	2402	Ant	7.81	21	Pass
NVNT	3-DH5	2441	Ant	9.01	21	Pass
NVNT	3-DH5	2480	Ant	8.27	21	Pass

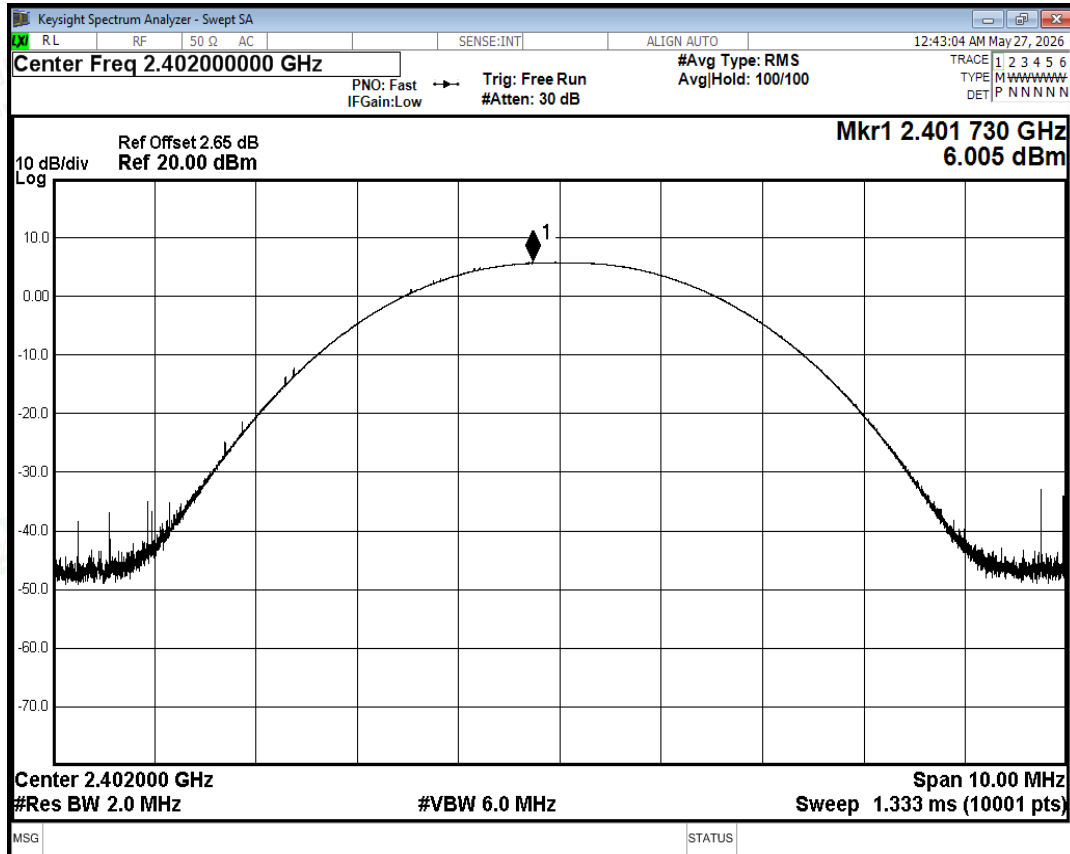


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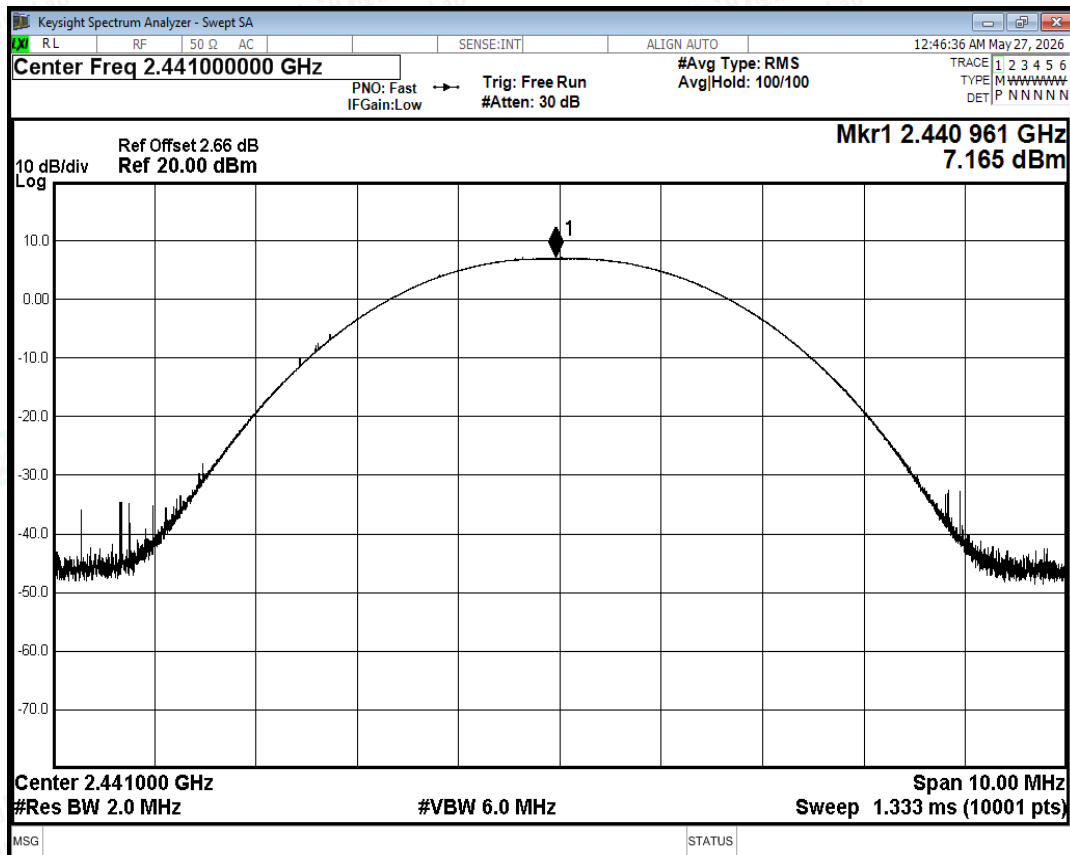
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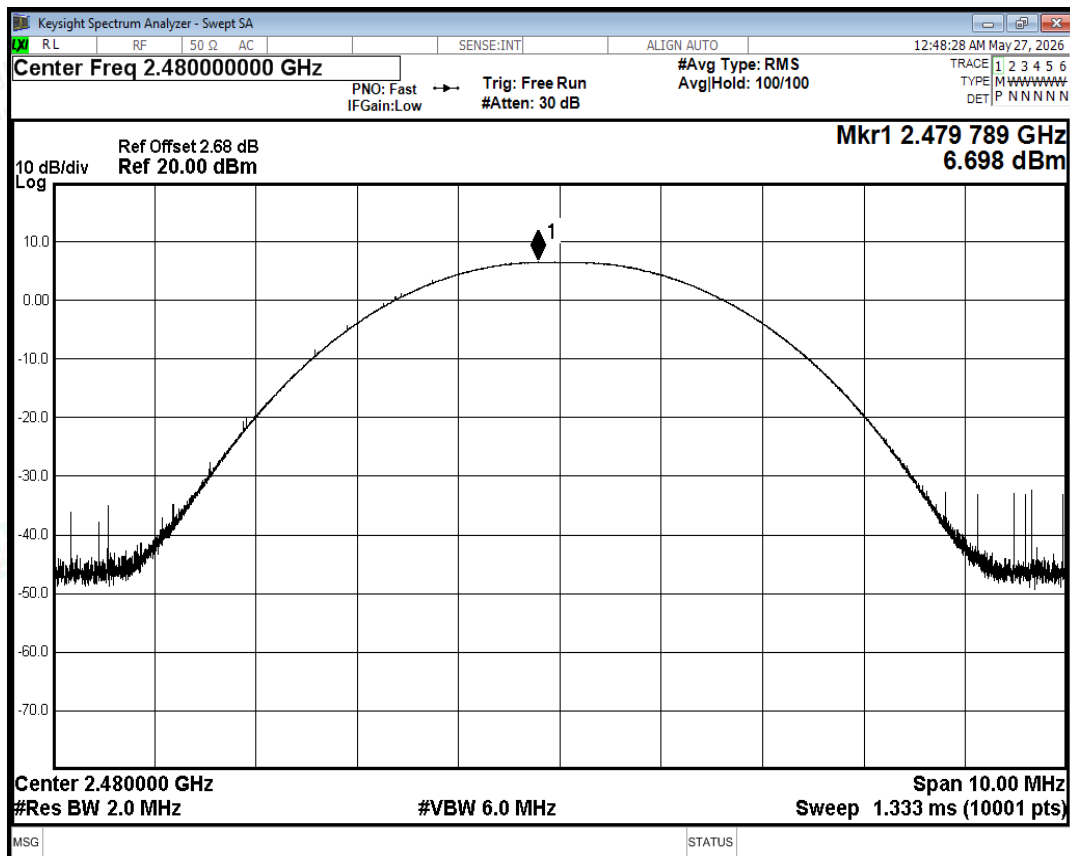


Peak Power NVNT 1-DH5 2402MHz Ant

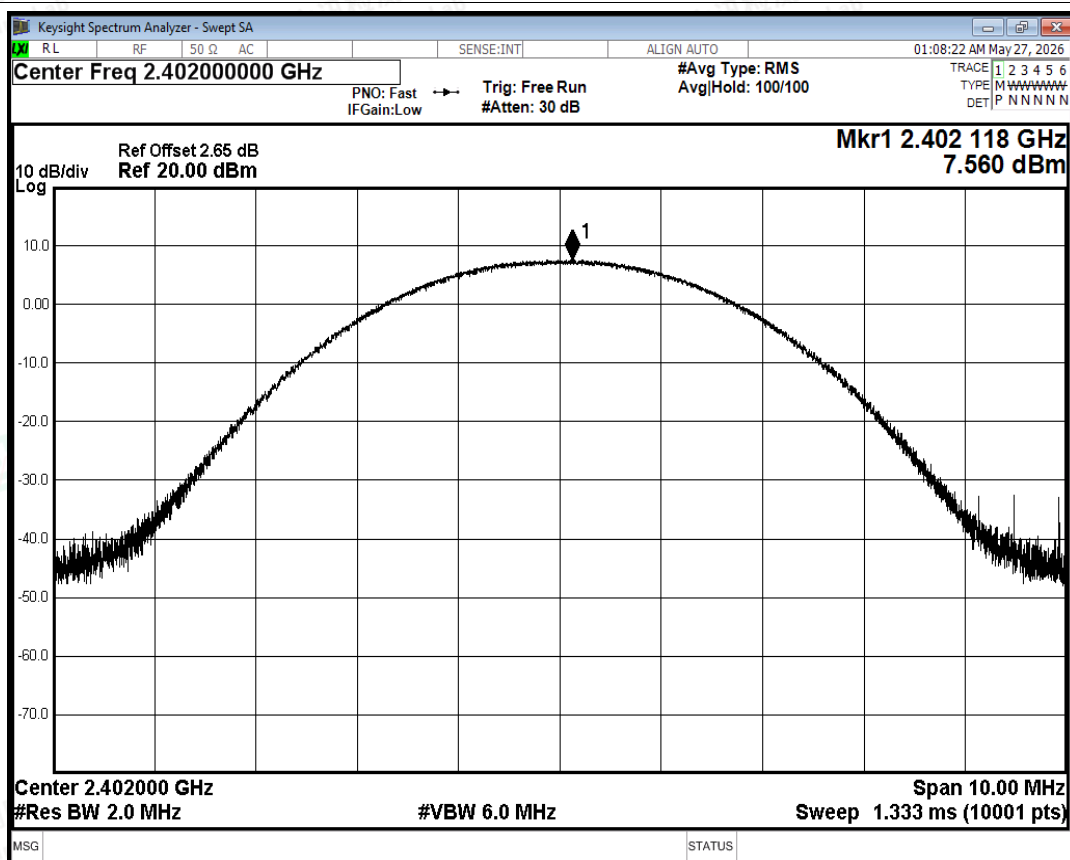


Peak Power NVNT 1-DH5 2441MHz Ant





Peak Power NVNT 1-DH5 2480MHz Ant



Peak Power NVNT 2-DH5 2402MHz Ant

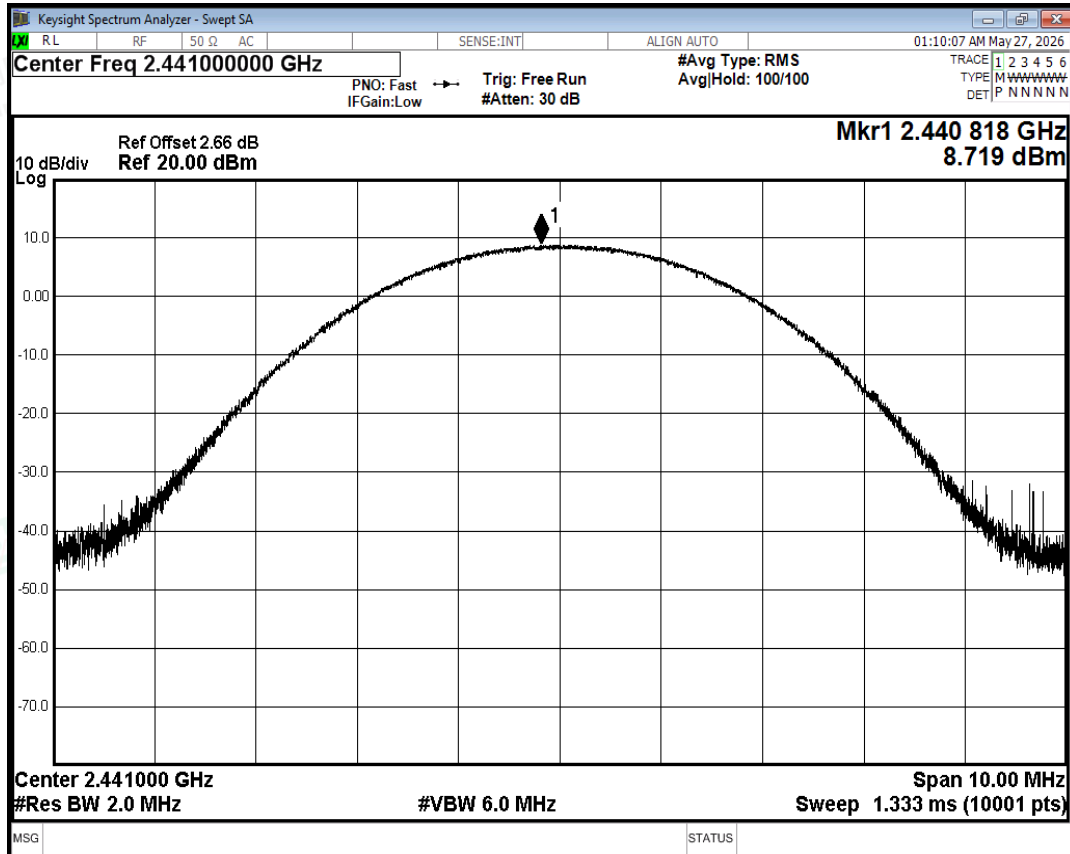


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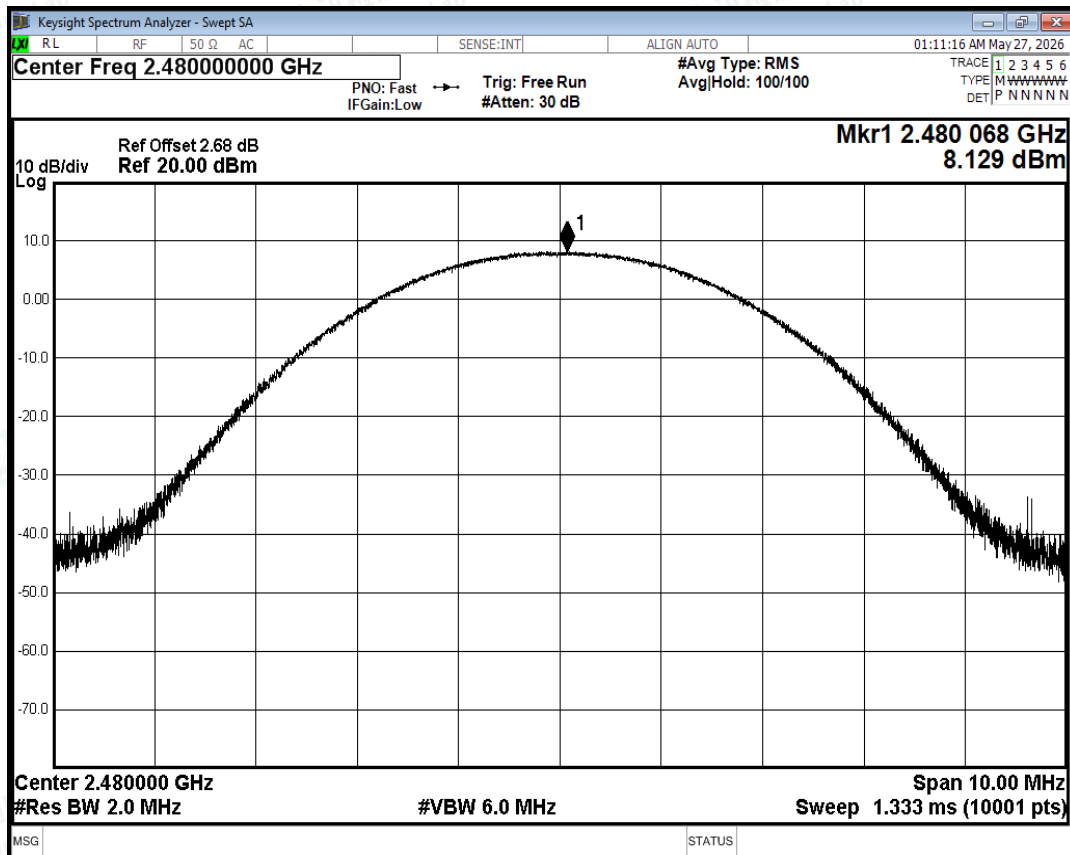
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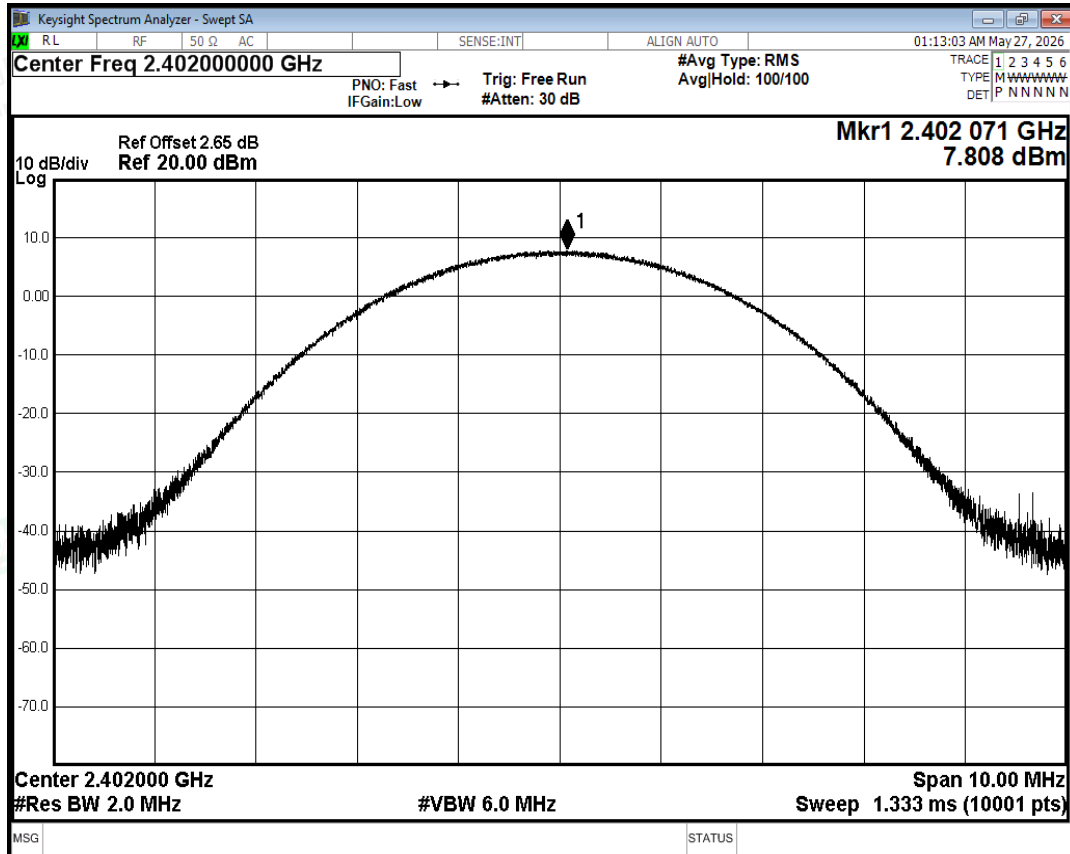


Peak Power NVNT 2-DH5 2441MHz Ant

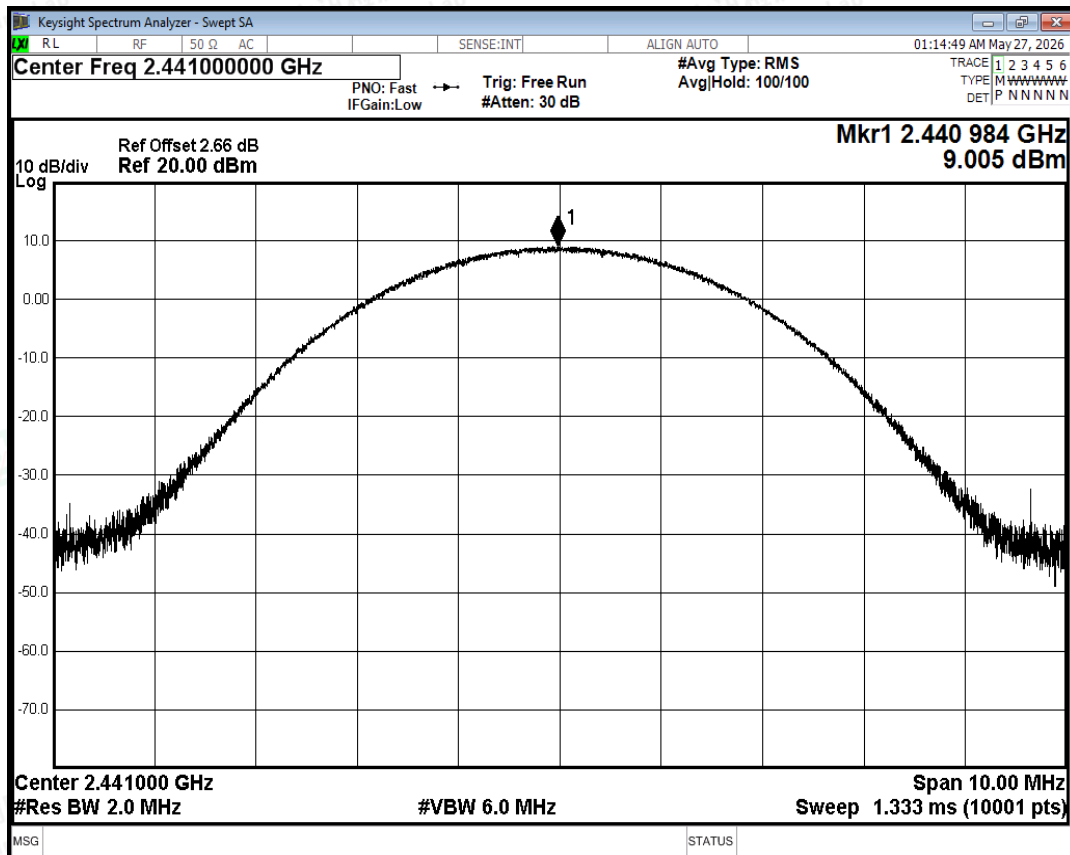


Peak Power NVNT 2-DH5 2480MHz Ant



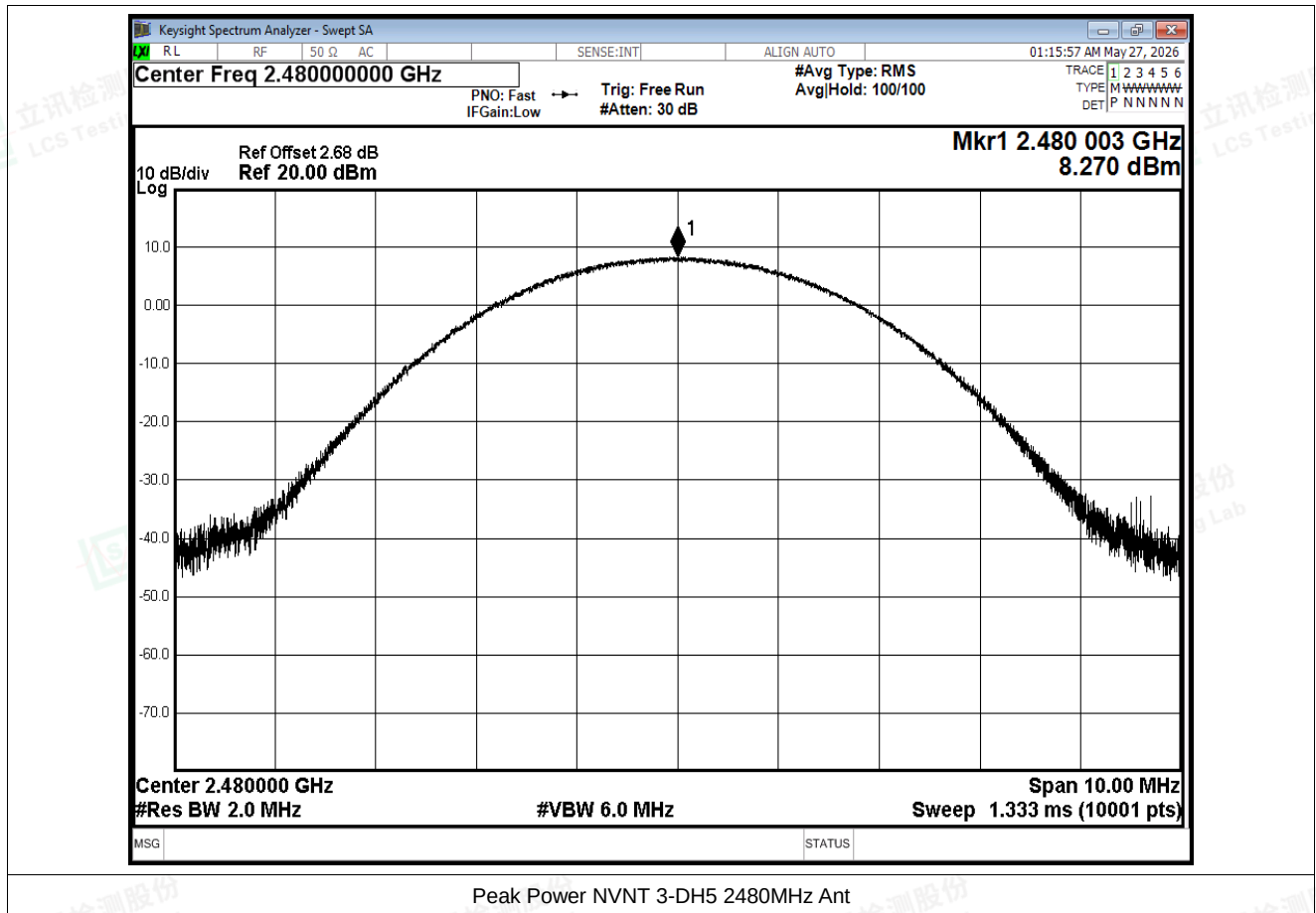


Peak Power NVNT 3-DH5 2402MHz Ant



Peak Power NVNT 3-DH5 2441MHz Ant



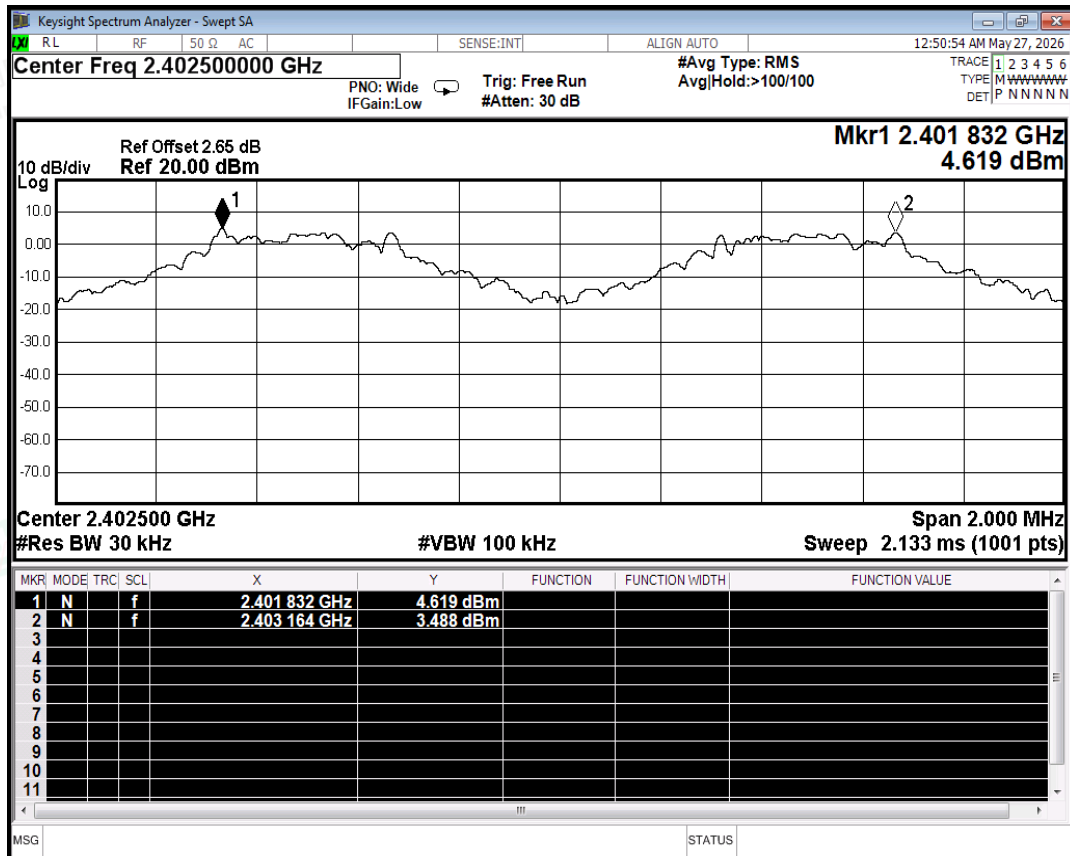




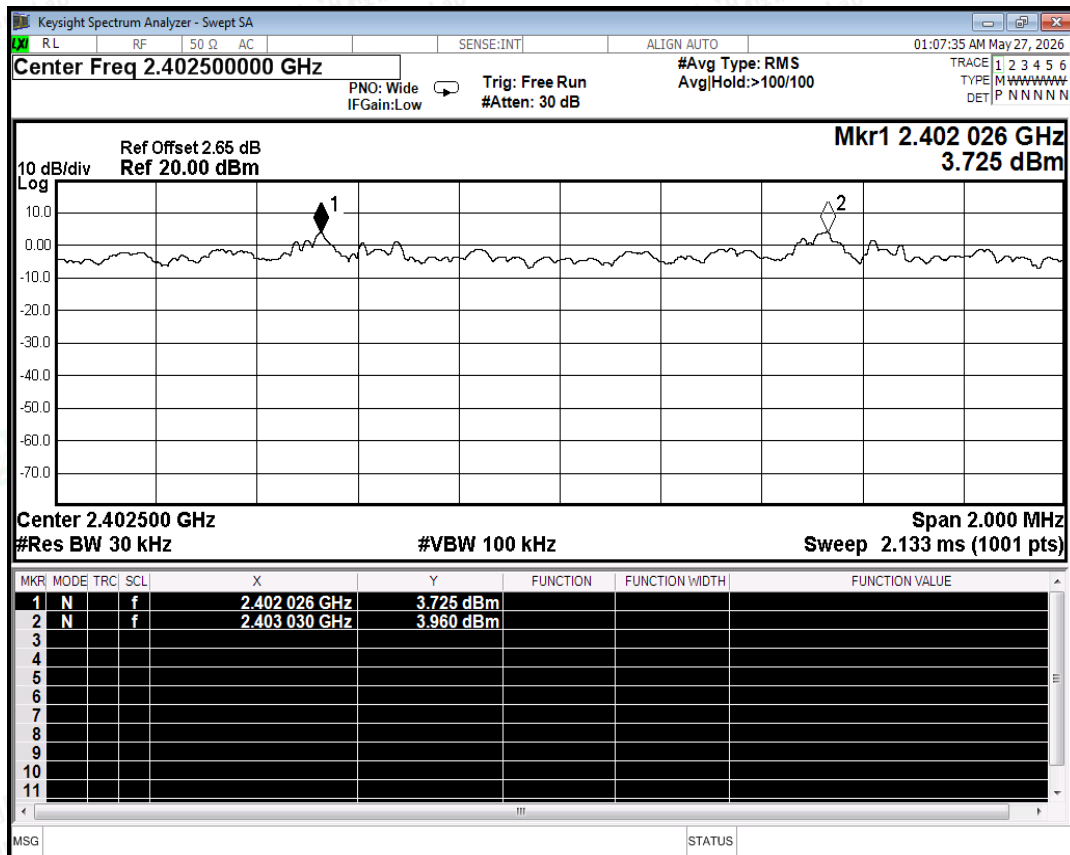
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.832	2403.164	1.332	0.689	Pass
NVNT	2-DH5	Ant	2402.026	2403.03	1.004	0.859	Pass
NVNT	3-DH5	Ant	2401.998	2403.032	1.034	0.874	Pass





CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant

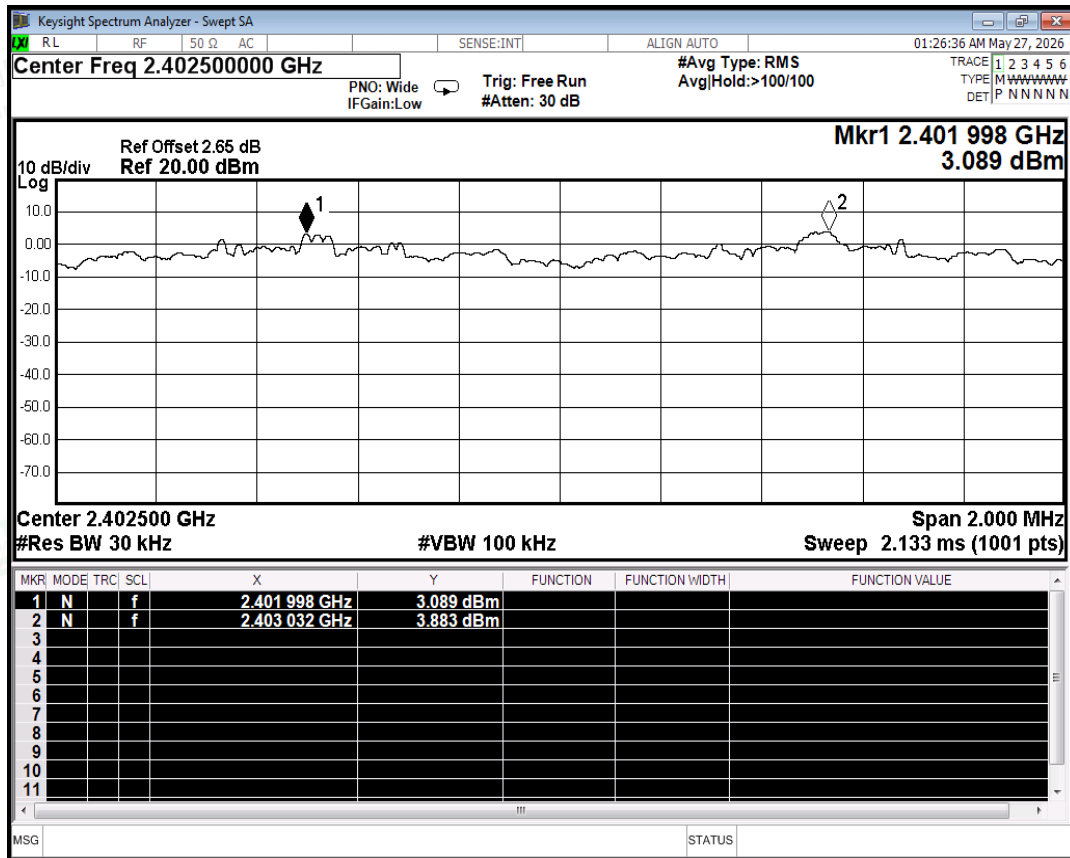


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CFS NVNT 3-DH5 2402MHz Ant

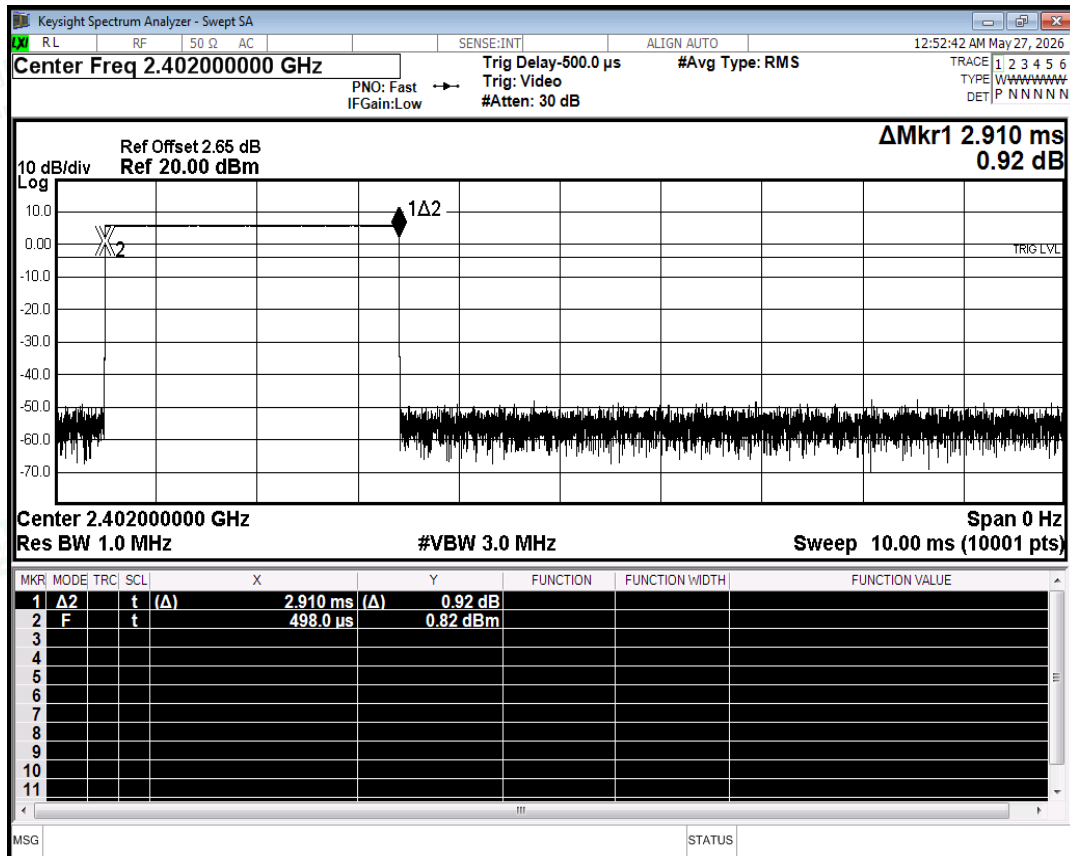




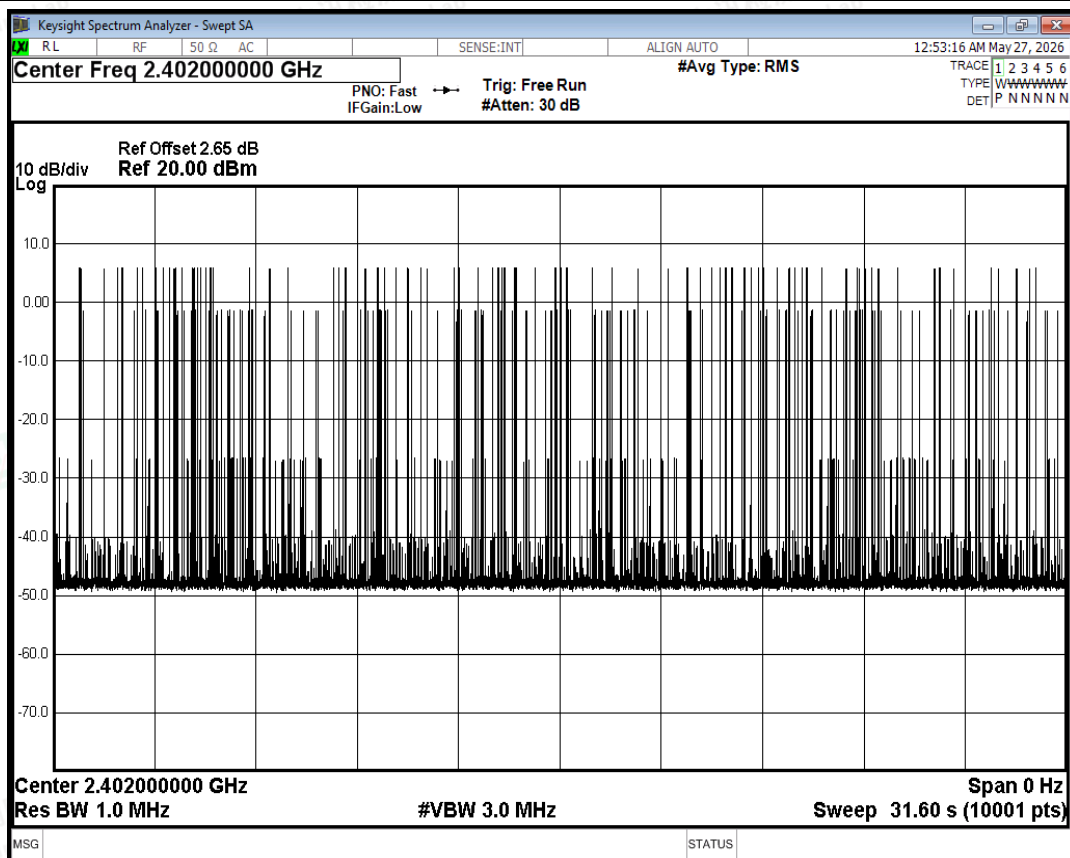
A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.91	276.45	95	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.898	307.188	106	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.897	278.112	96	31600	400	Pass



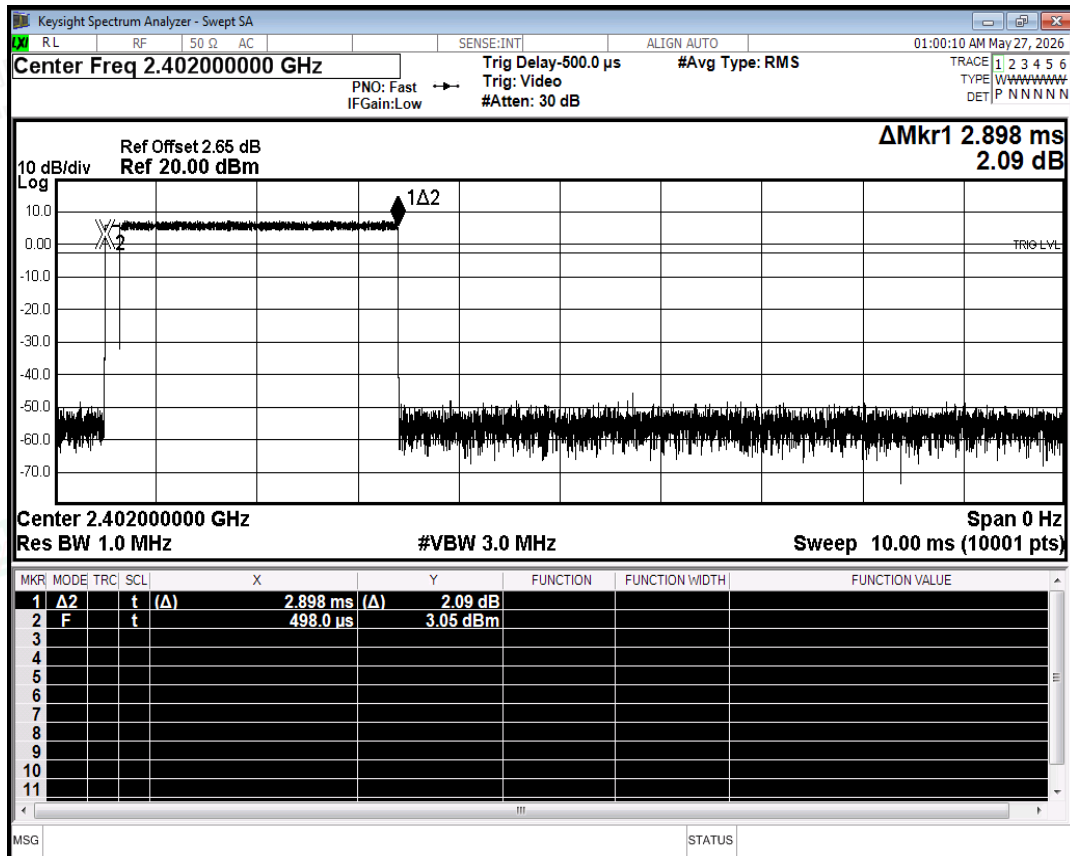


Dwell NVNT 1-DH5 2402MHz Ant One Burst

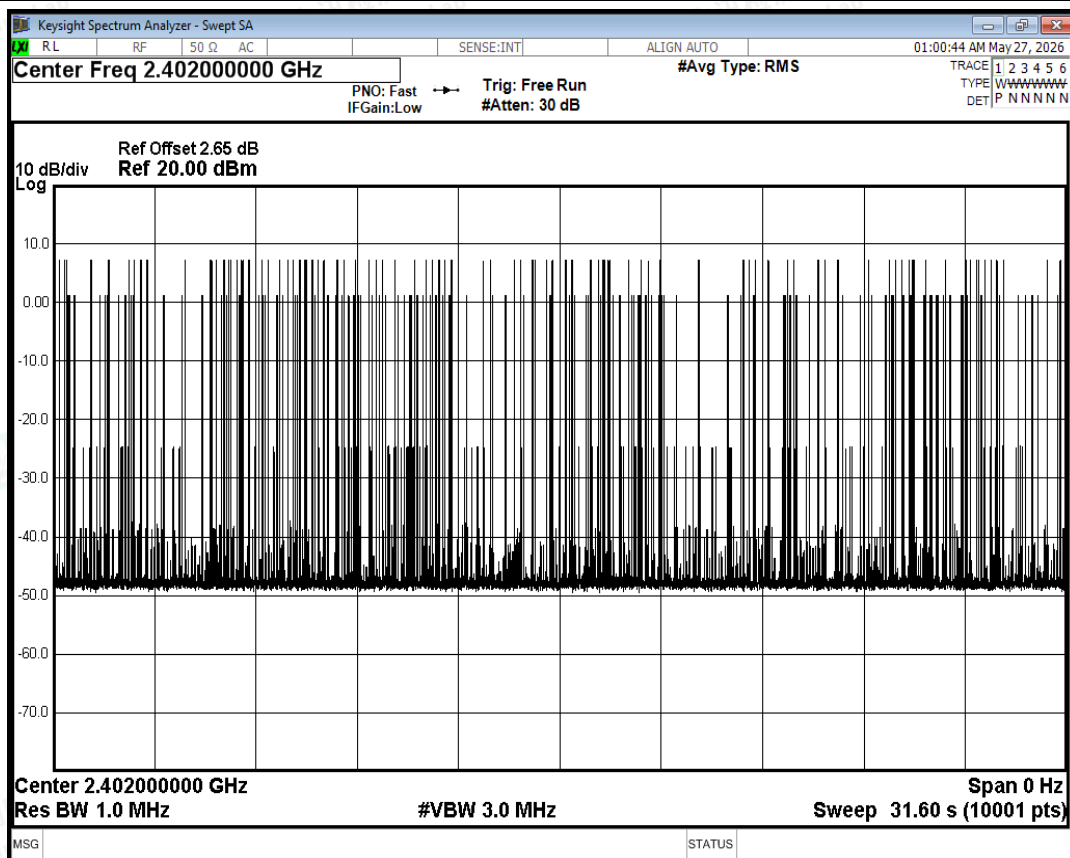


Dwell NVNT 1-DH5 2402MHz Ant Accumulated



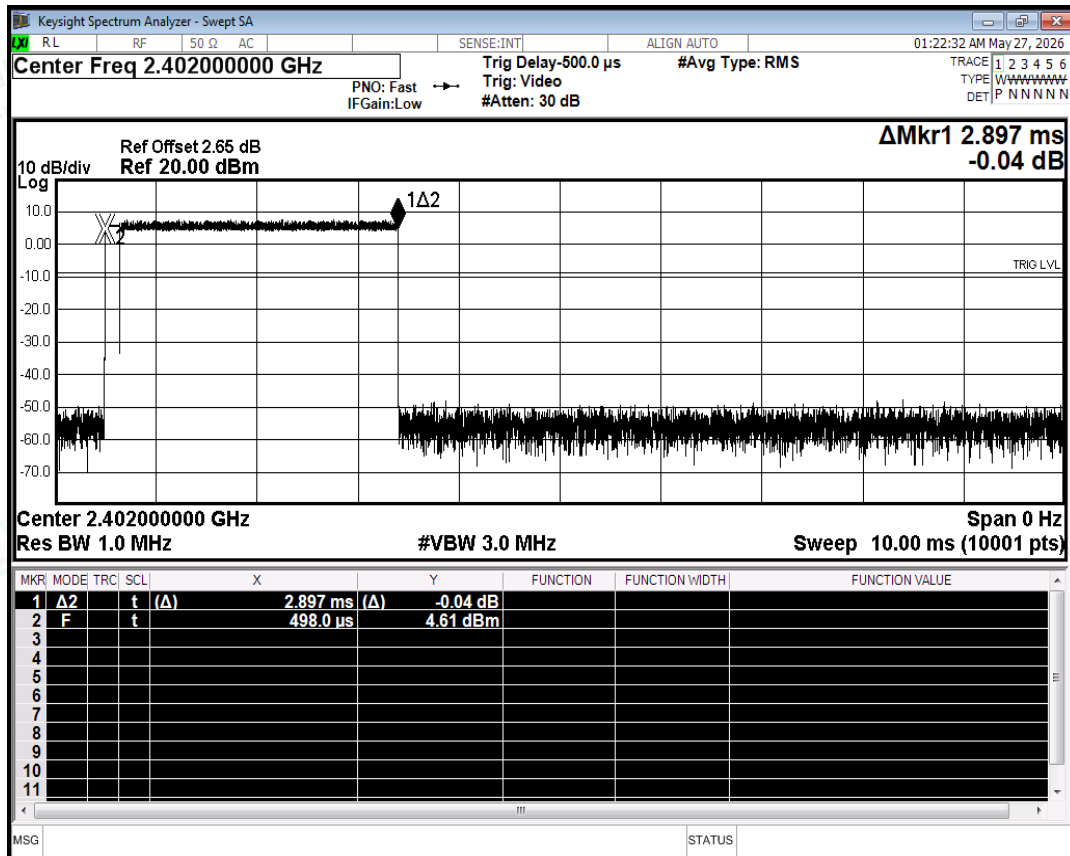


Dwell NVNT 2-DH5 2402MHz Ant One Burst

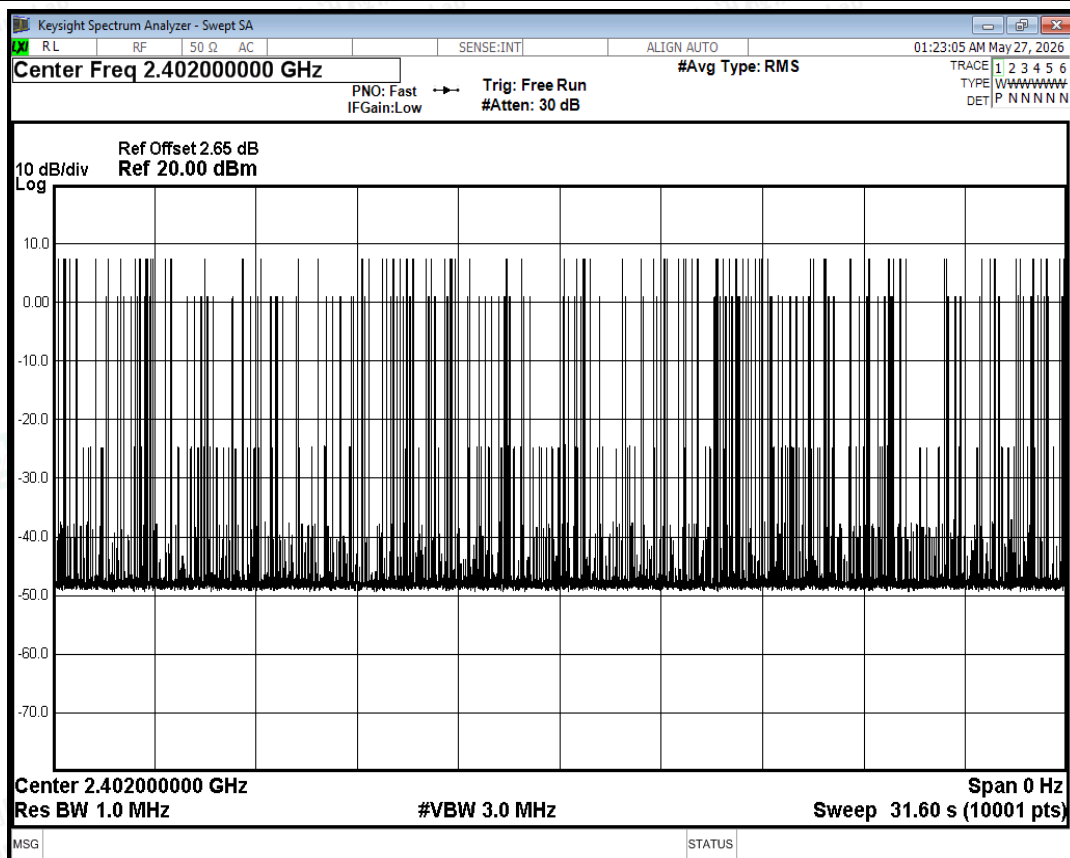


Dwell NVNT 2-DH5 2402MHz Ant Accumulated





Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated

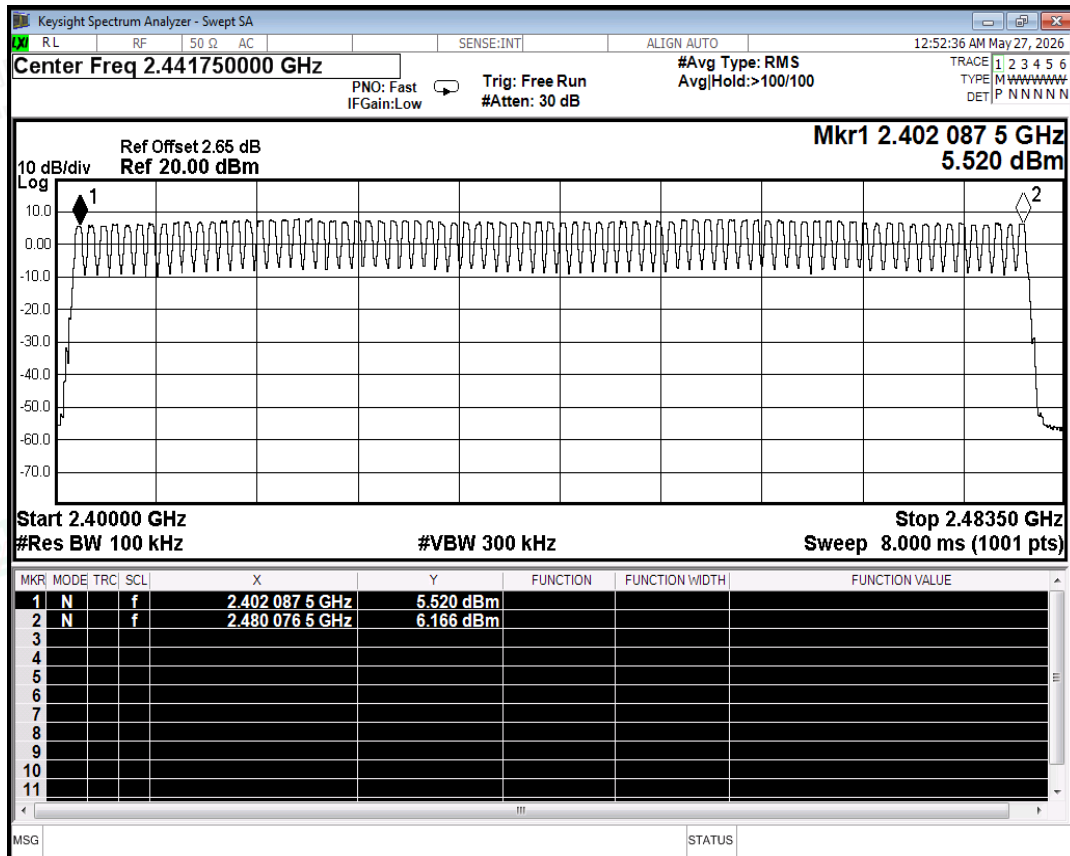




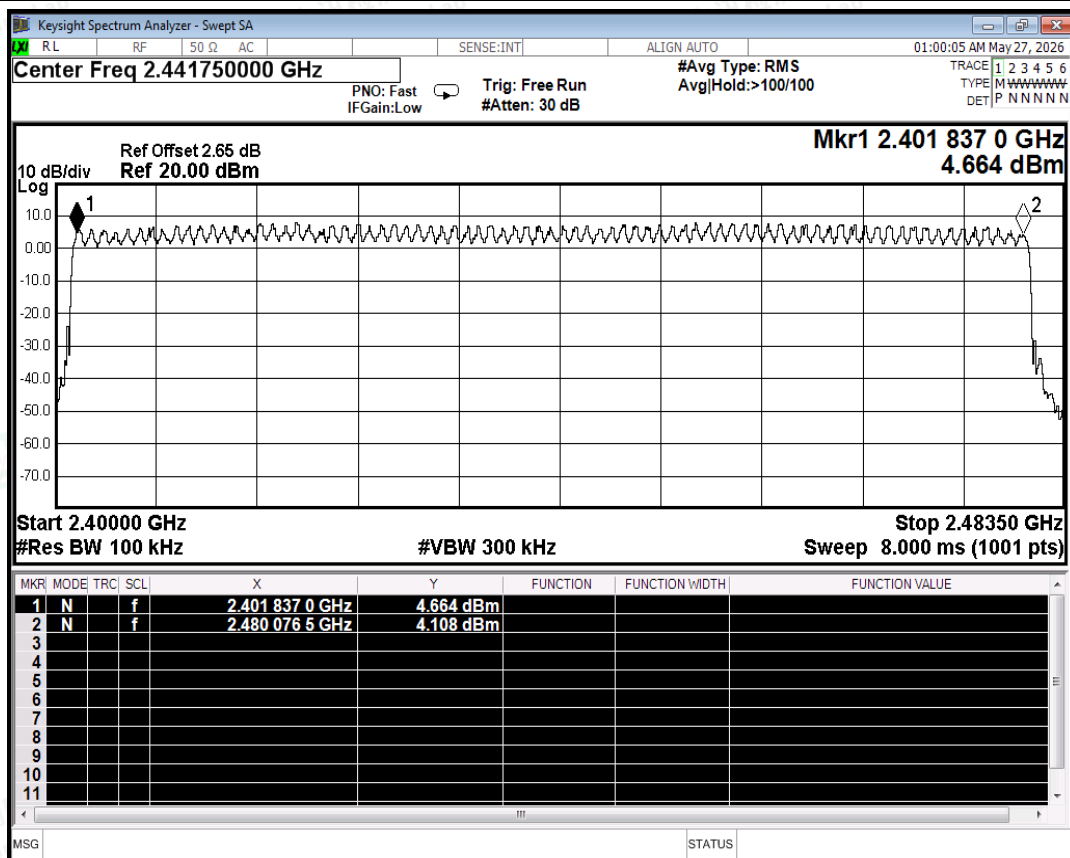
A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass





Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant

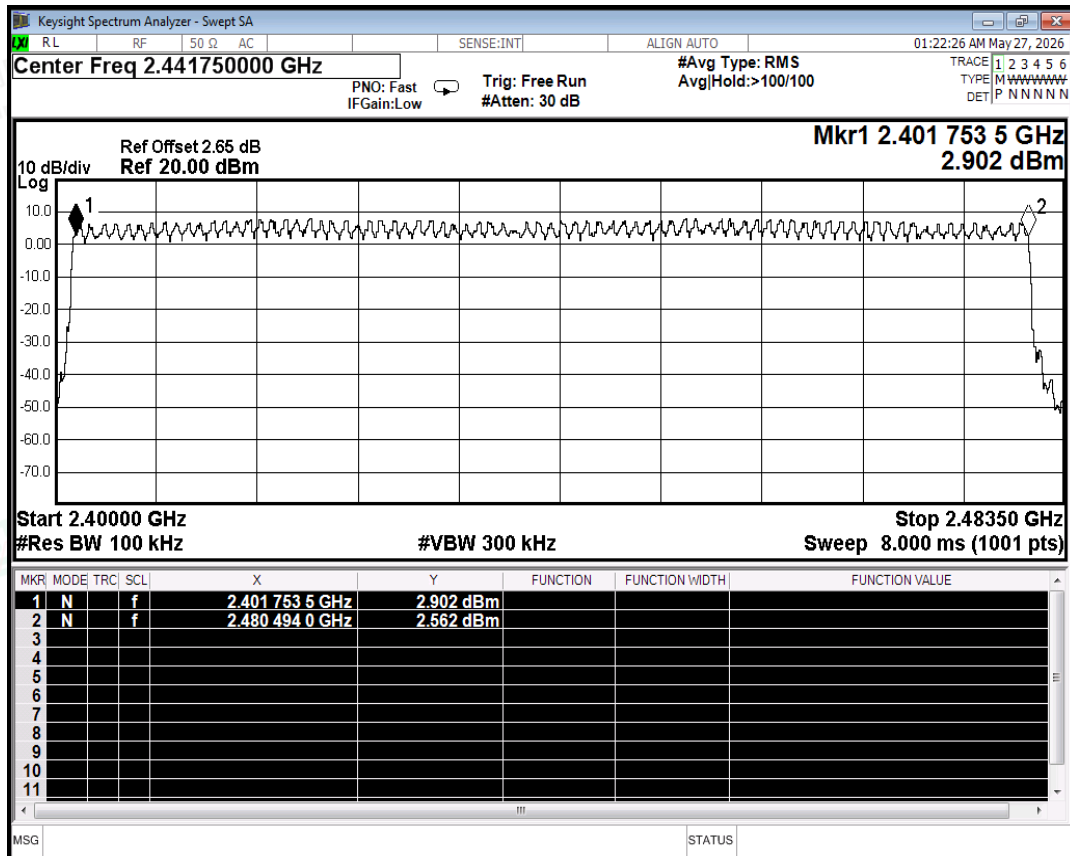


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Hopping No. NVNT 3-DH5 2402MHz Ant



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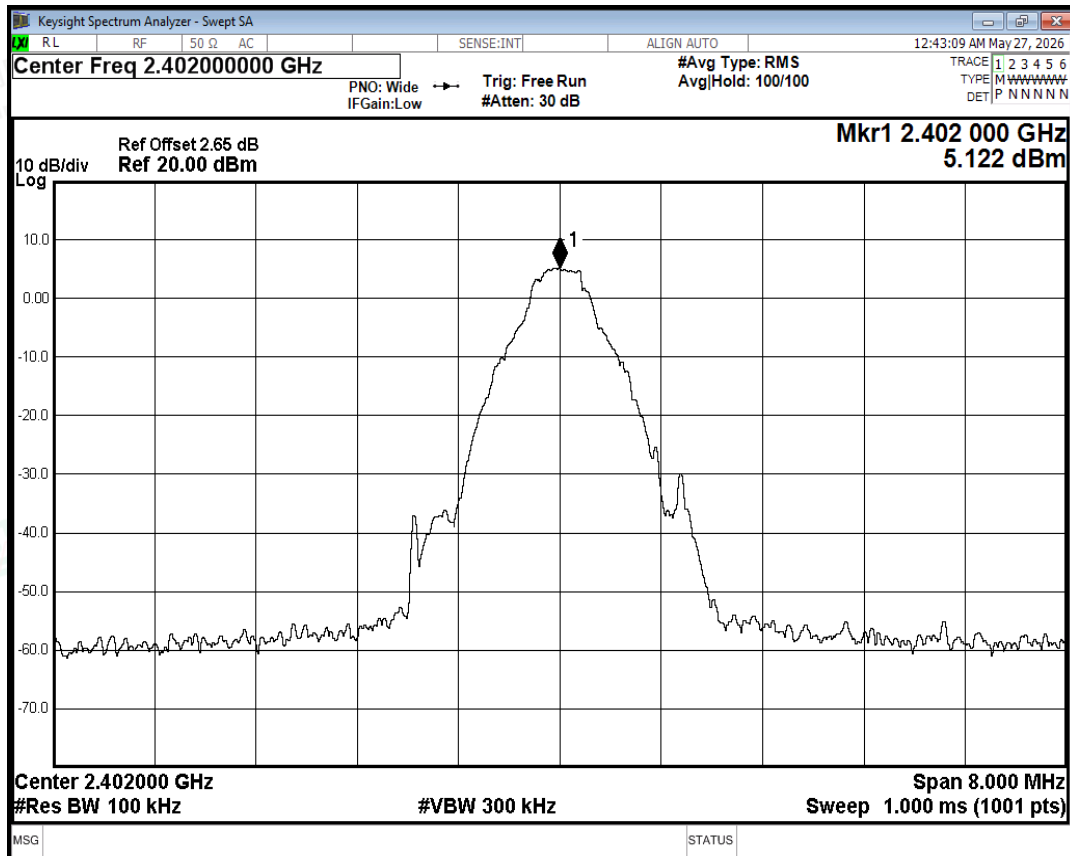
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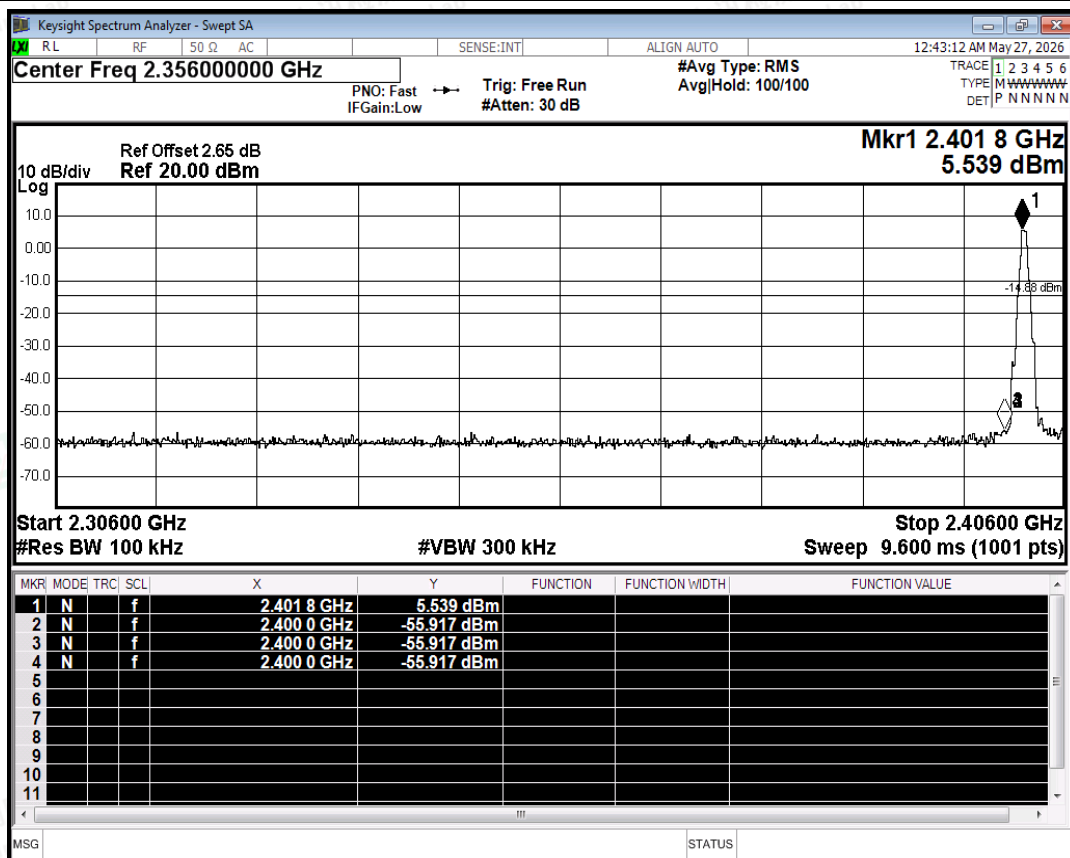
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-61.03	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-61.94	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-54.2	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-56.91	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-52.5	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-52.86	-20	Pass





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



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

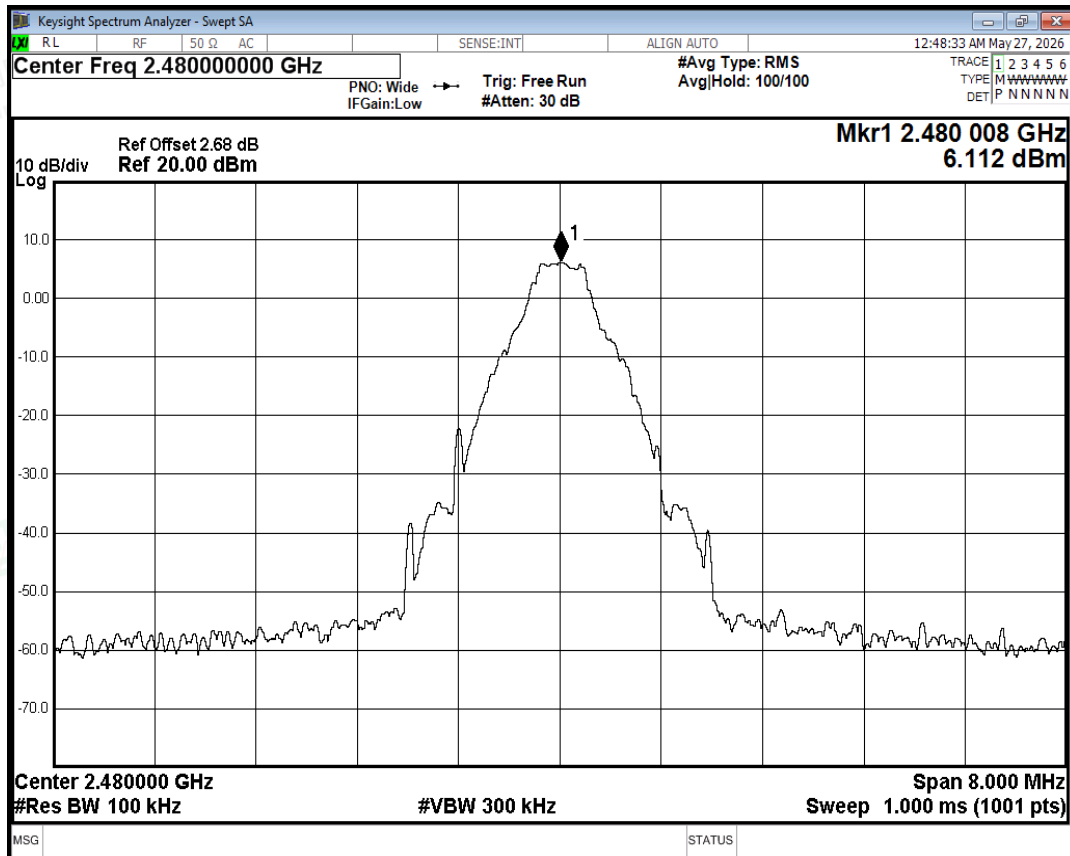


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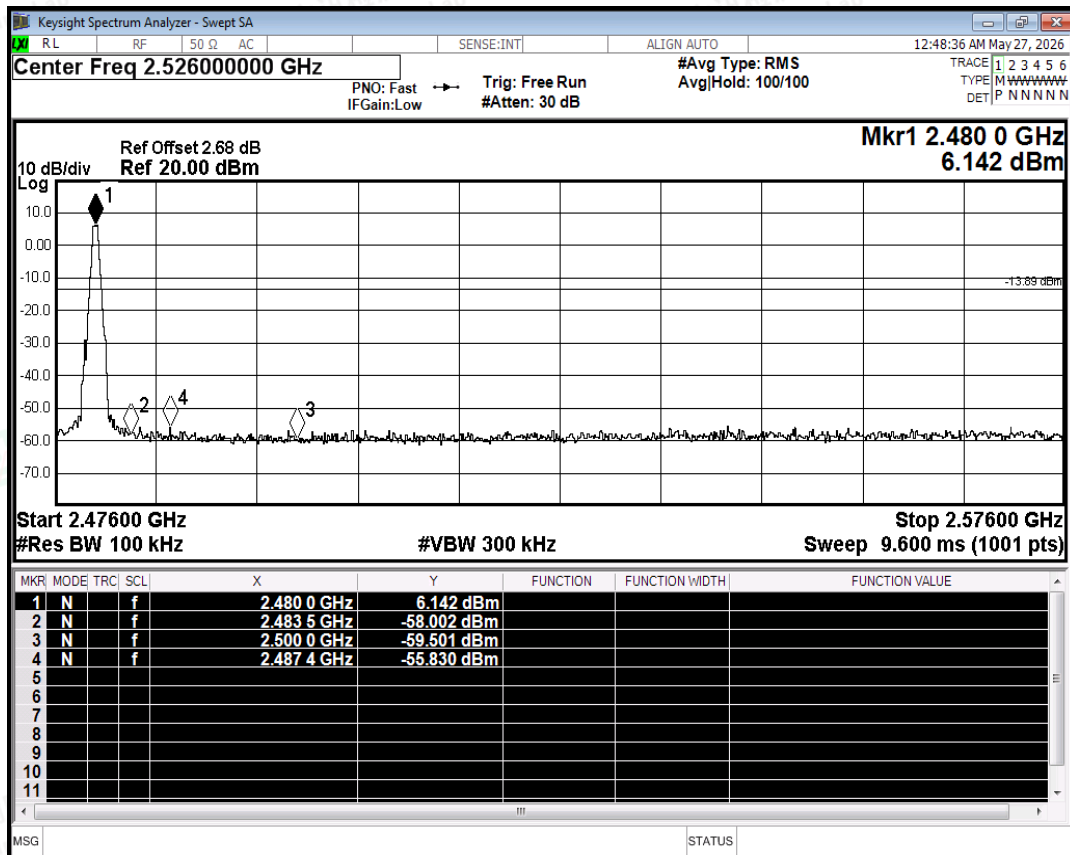
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Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

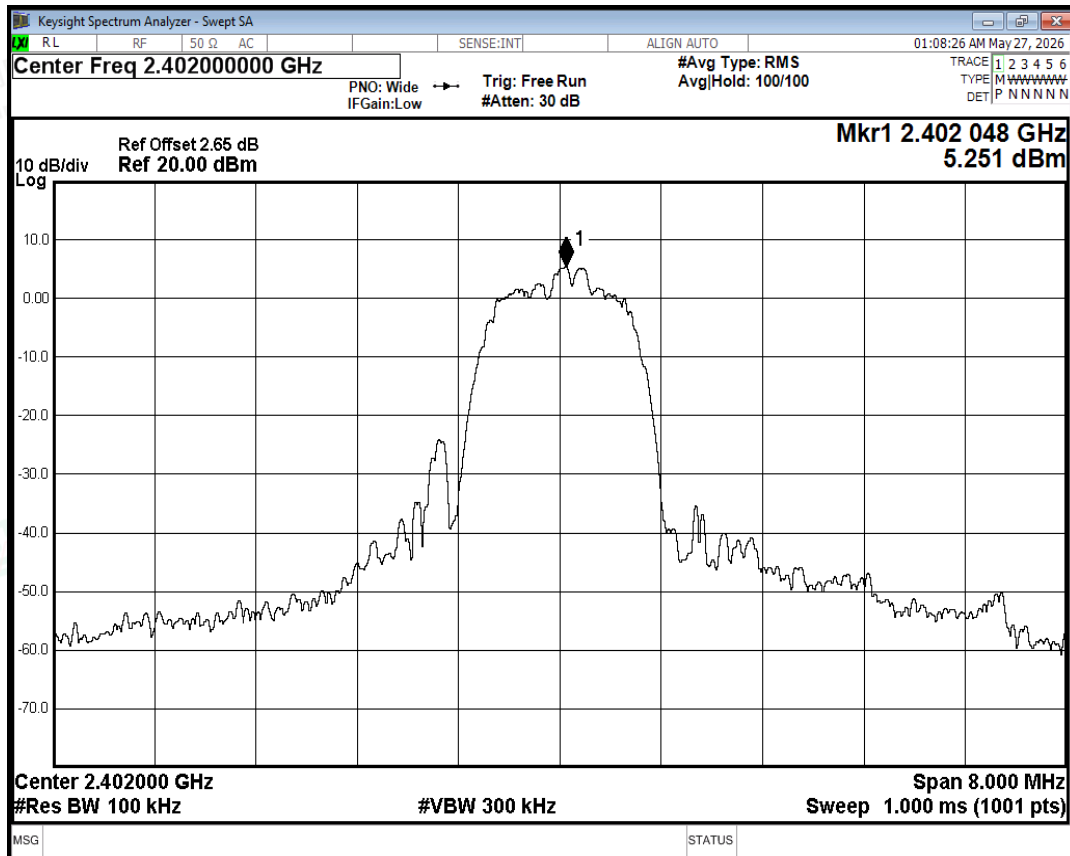


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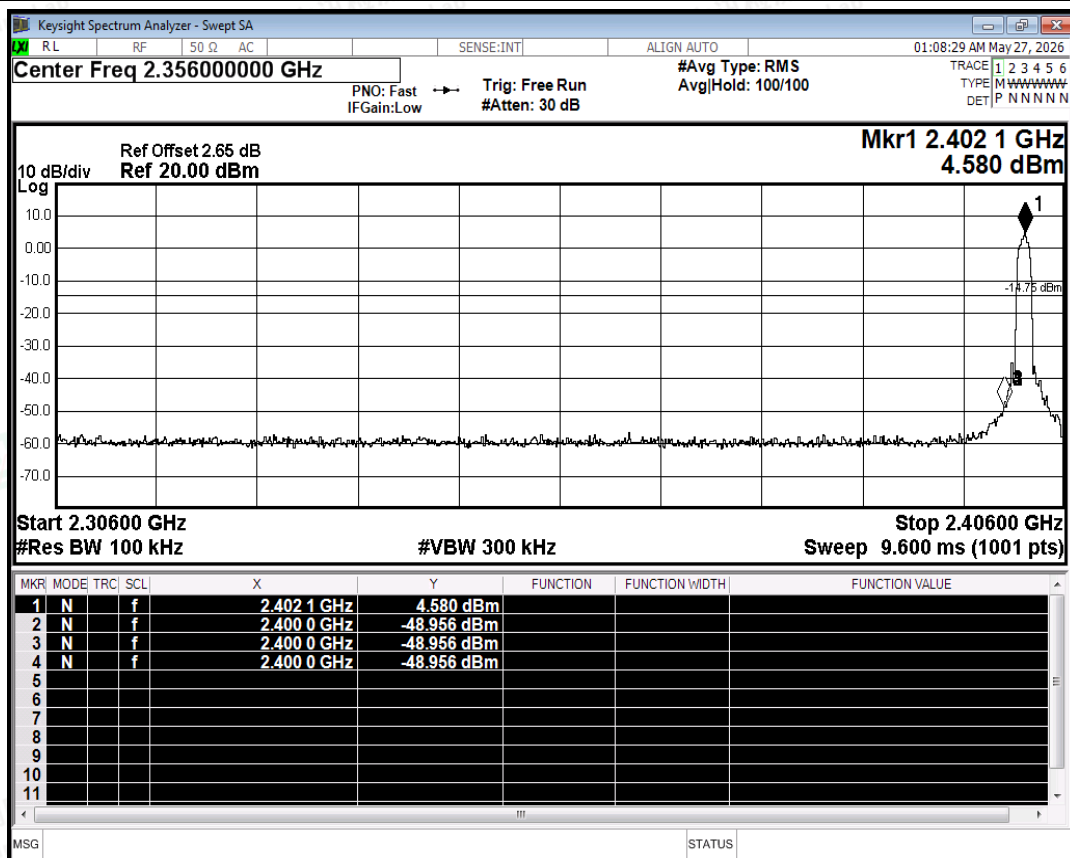
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Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

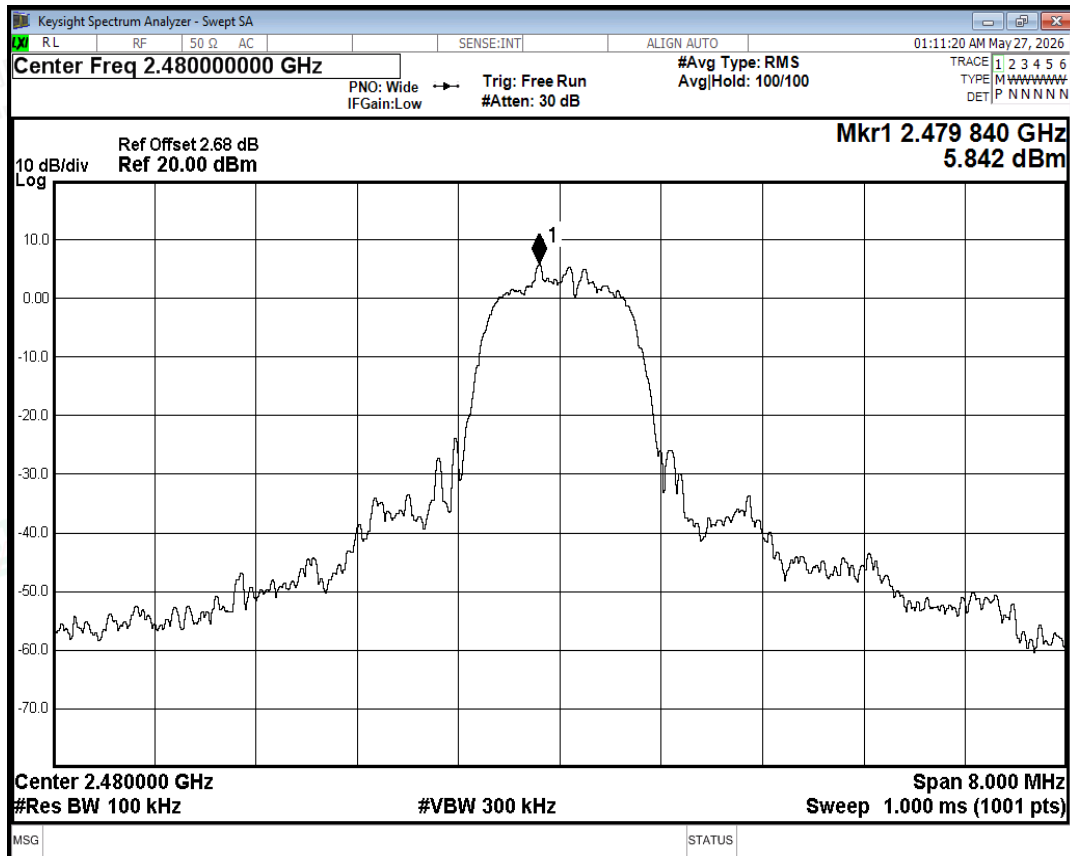


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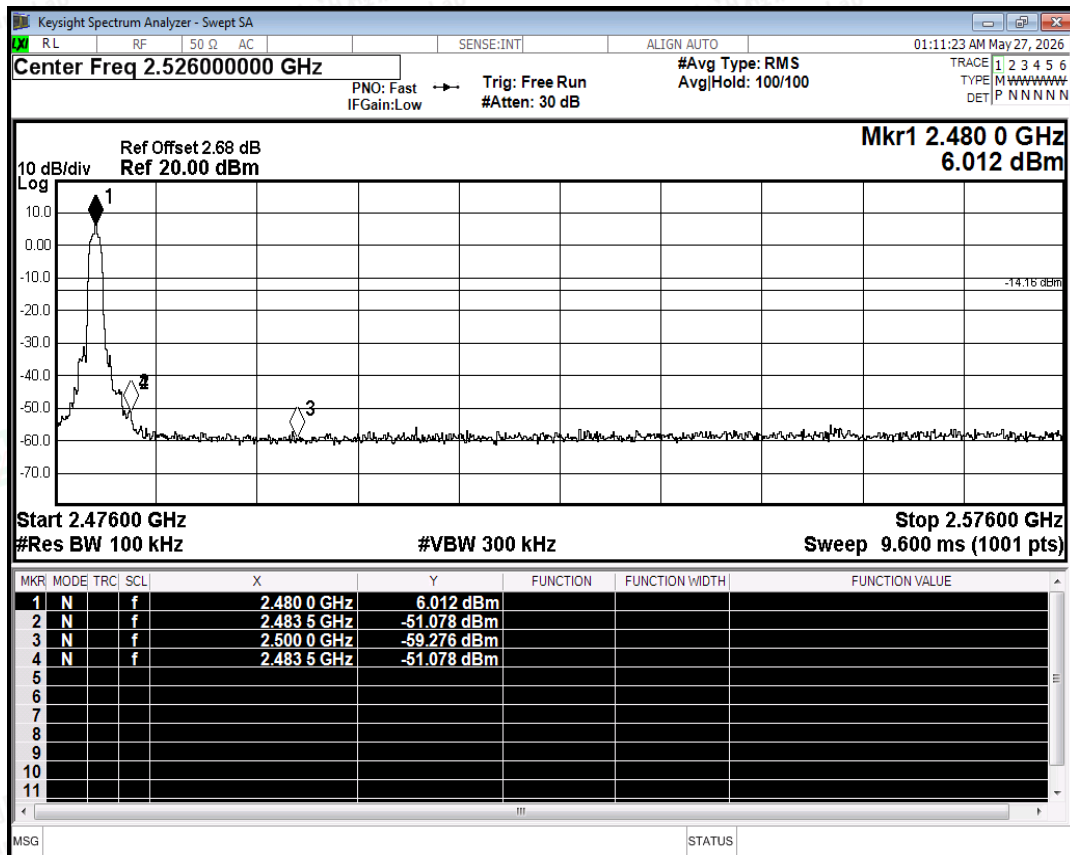
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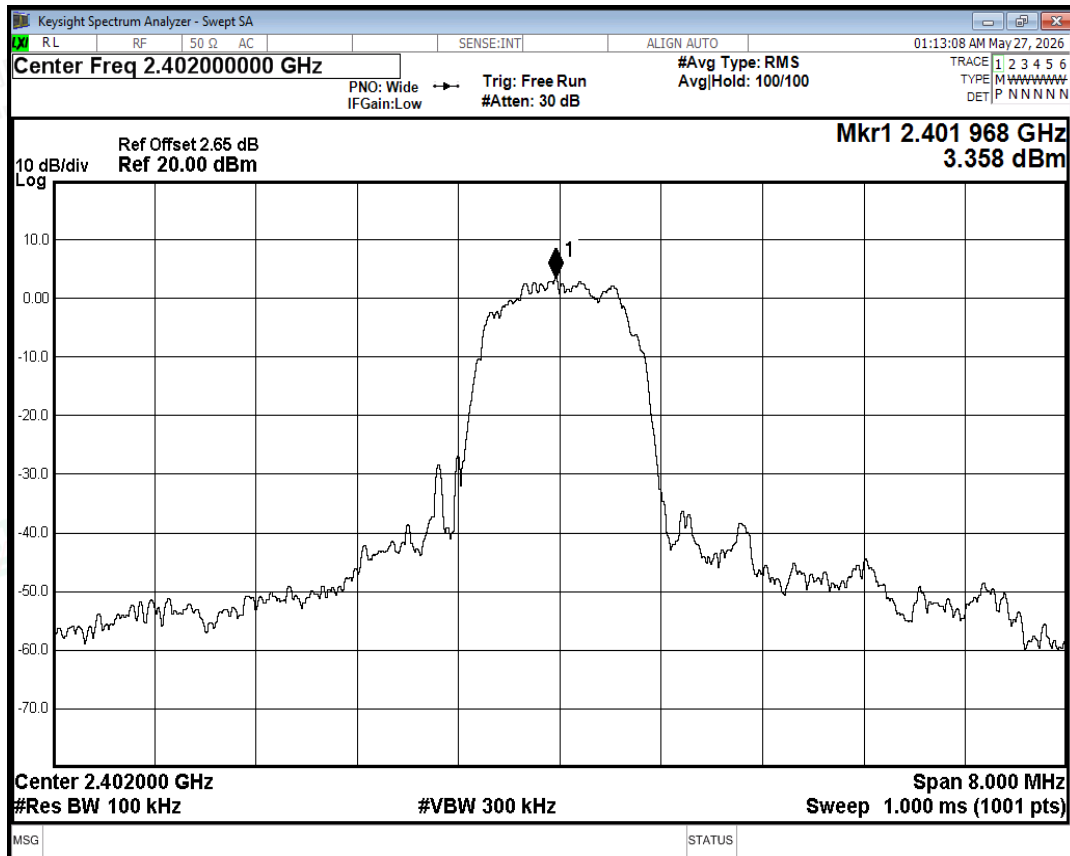


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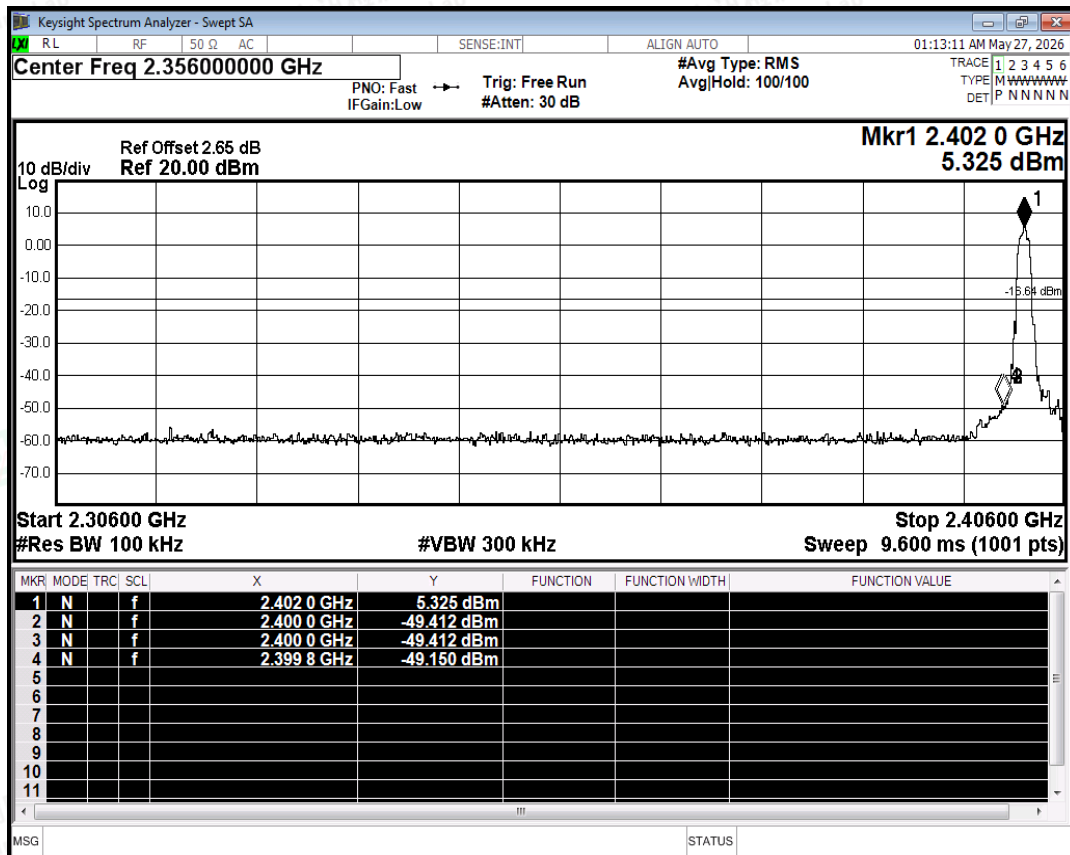
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Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

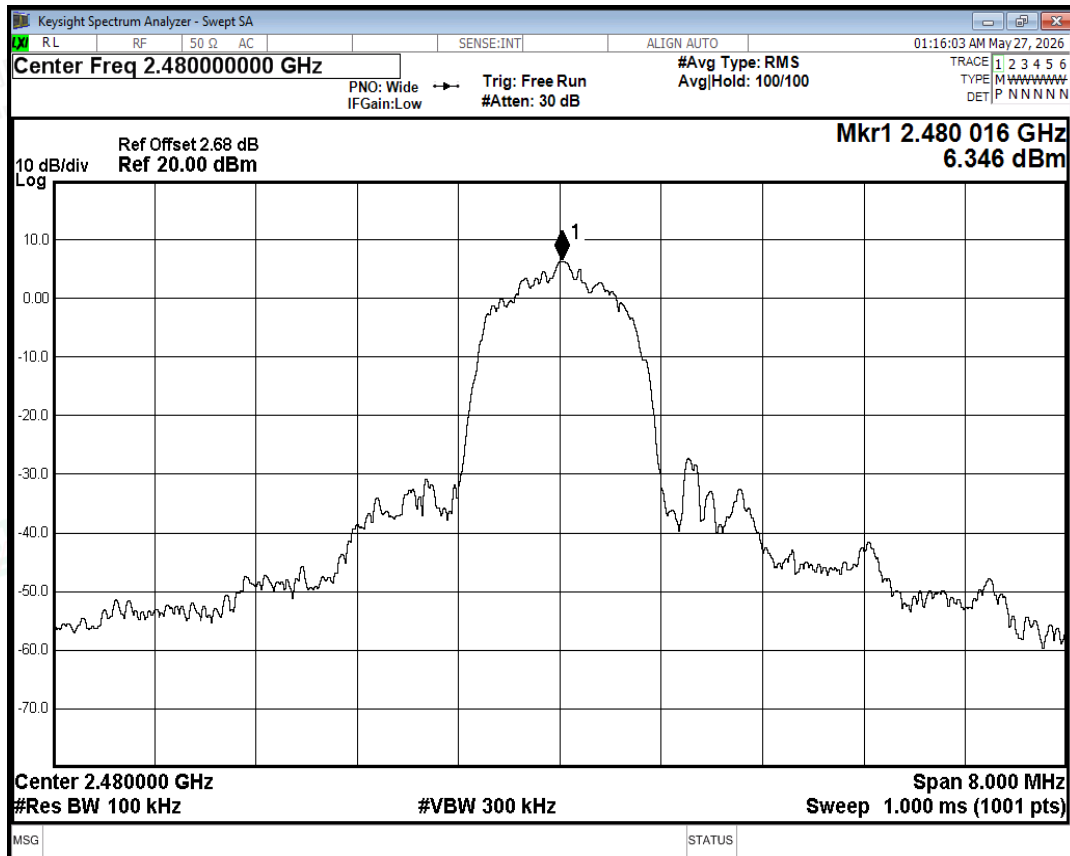


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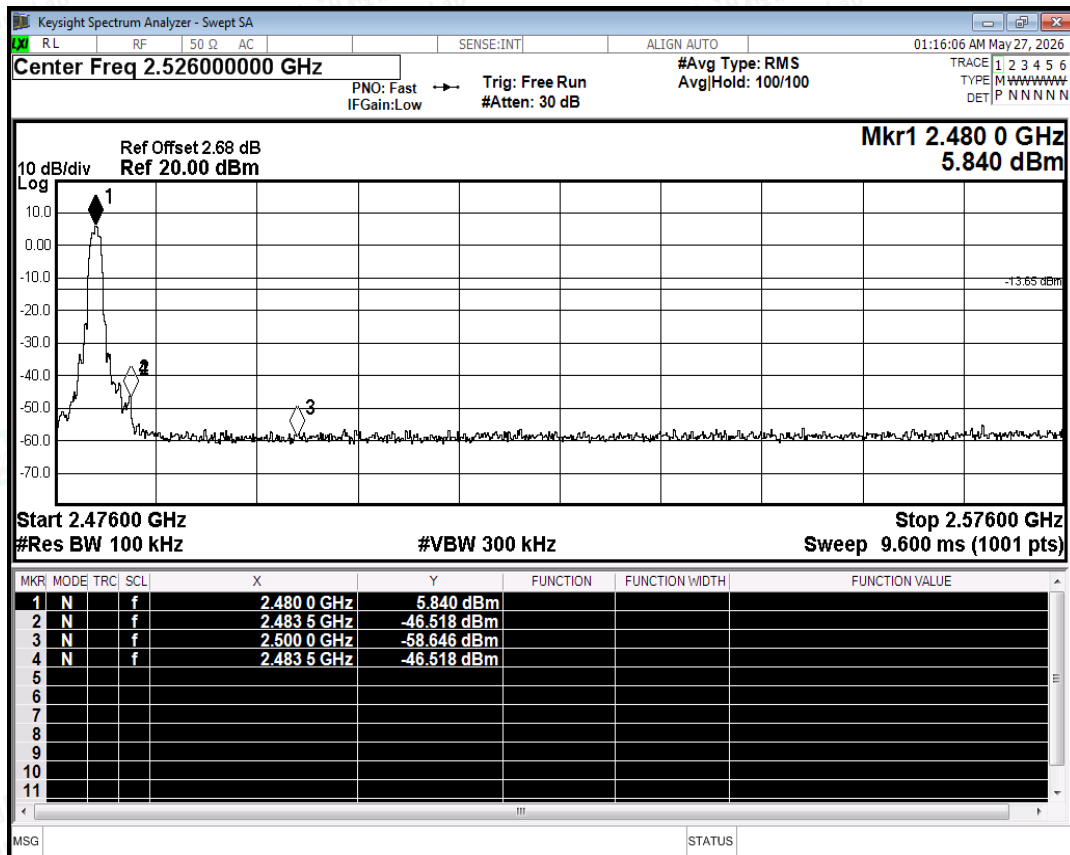
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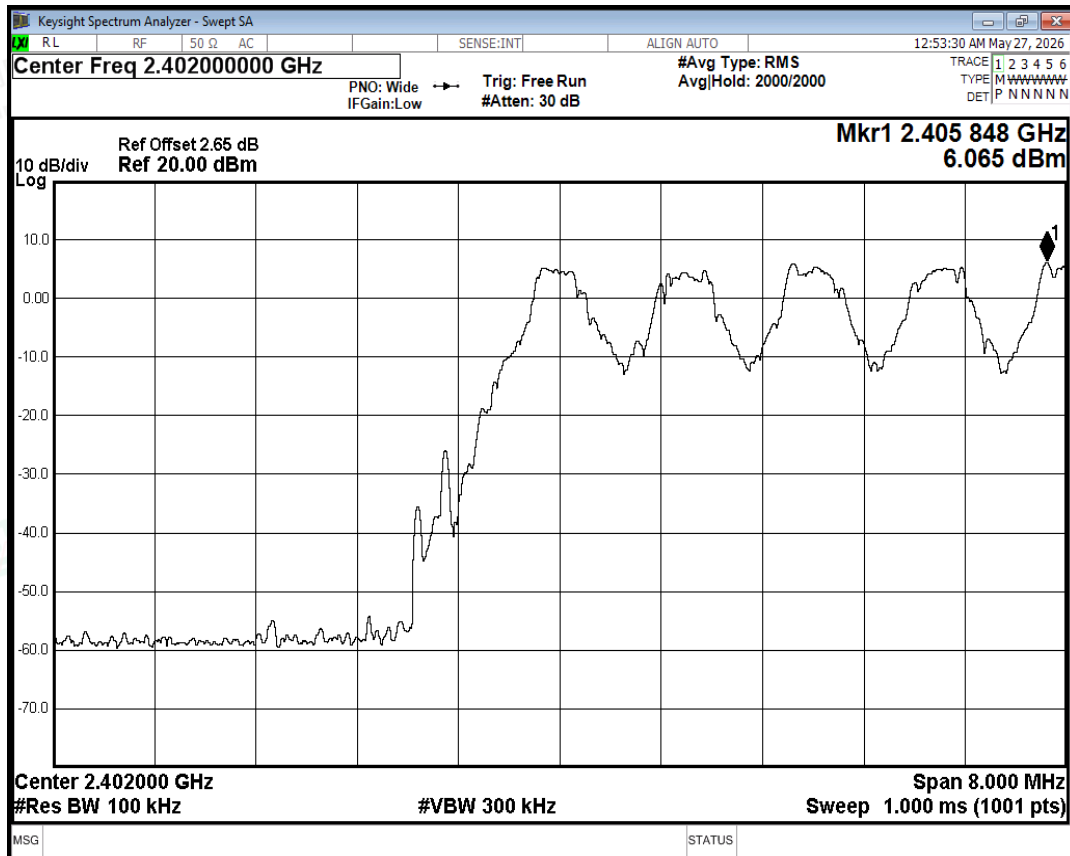
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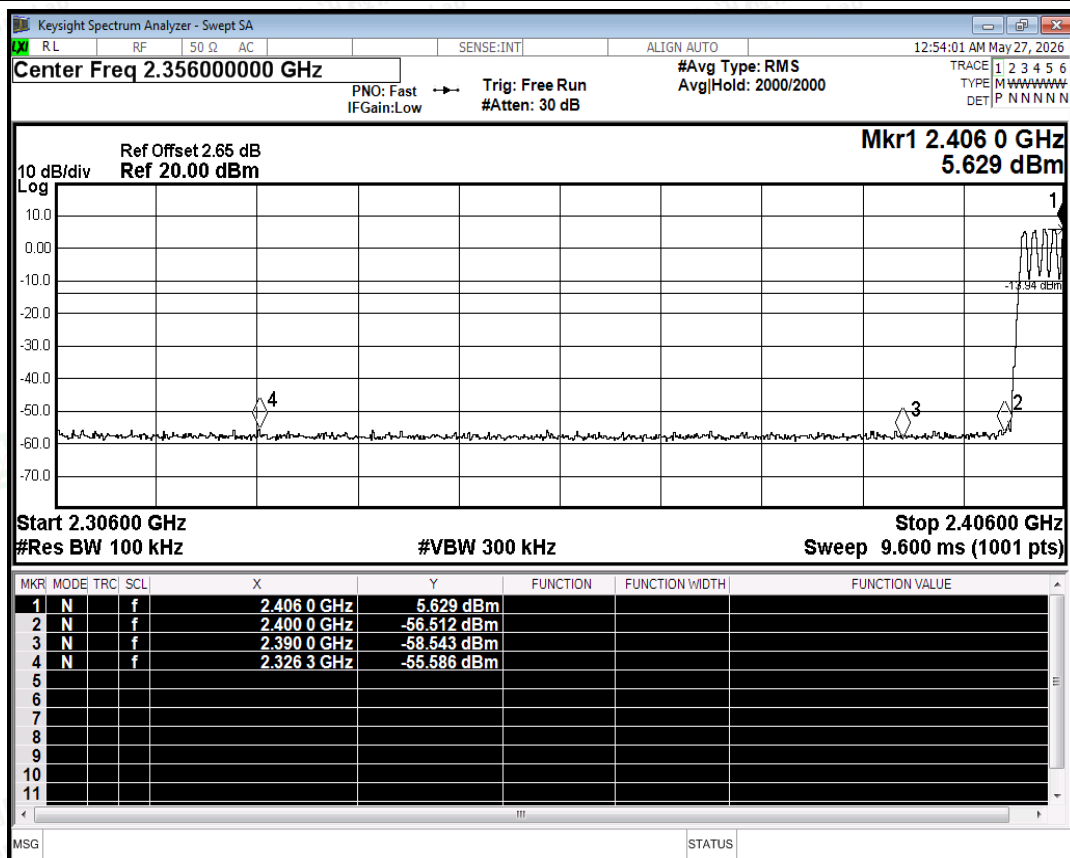
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-61.65	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-62.61	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-60.75	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-59.72	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-61.87	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-54.45	-20	Pass





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



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

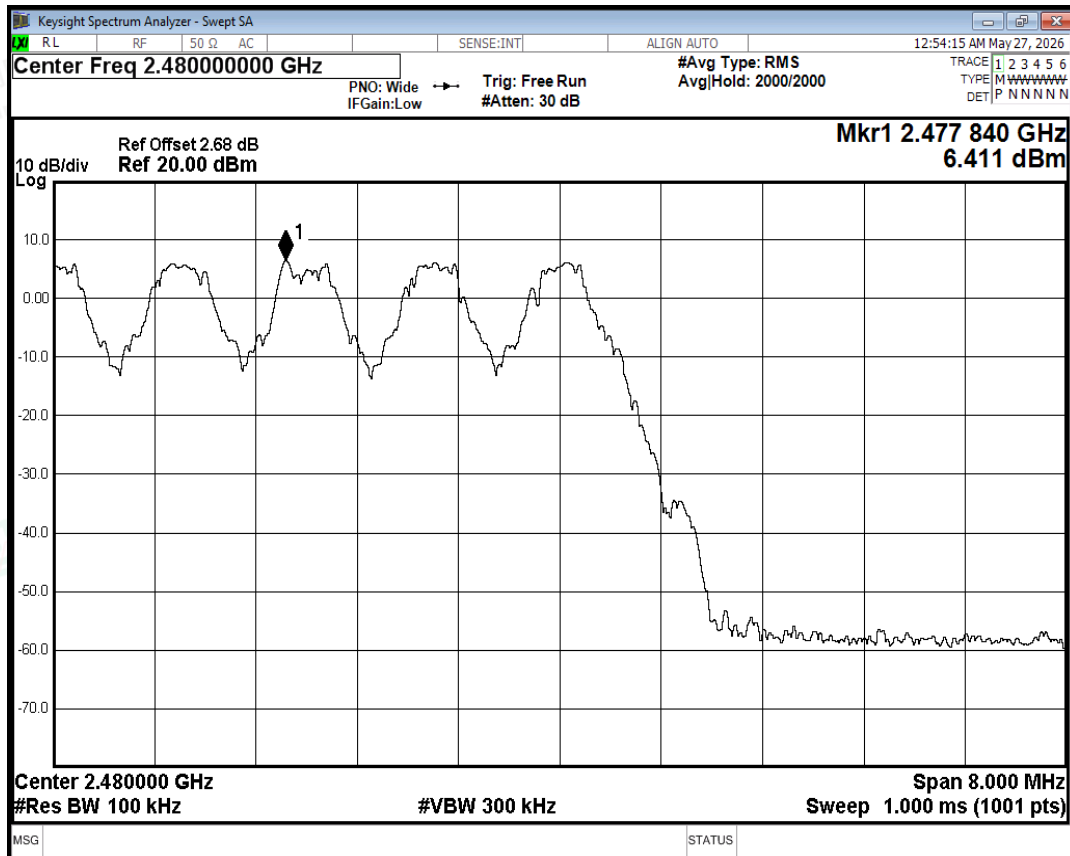


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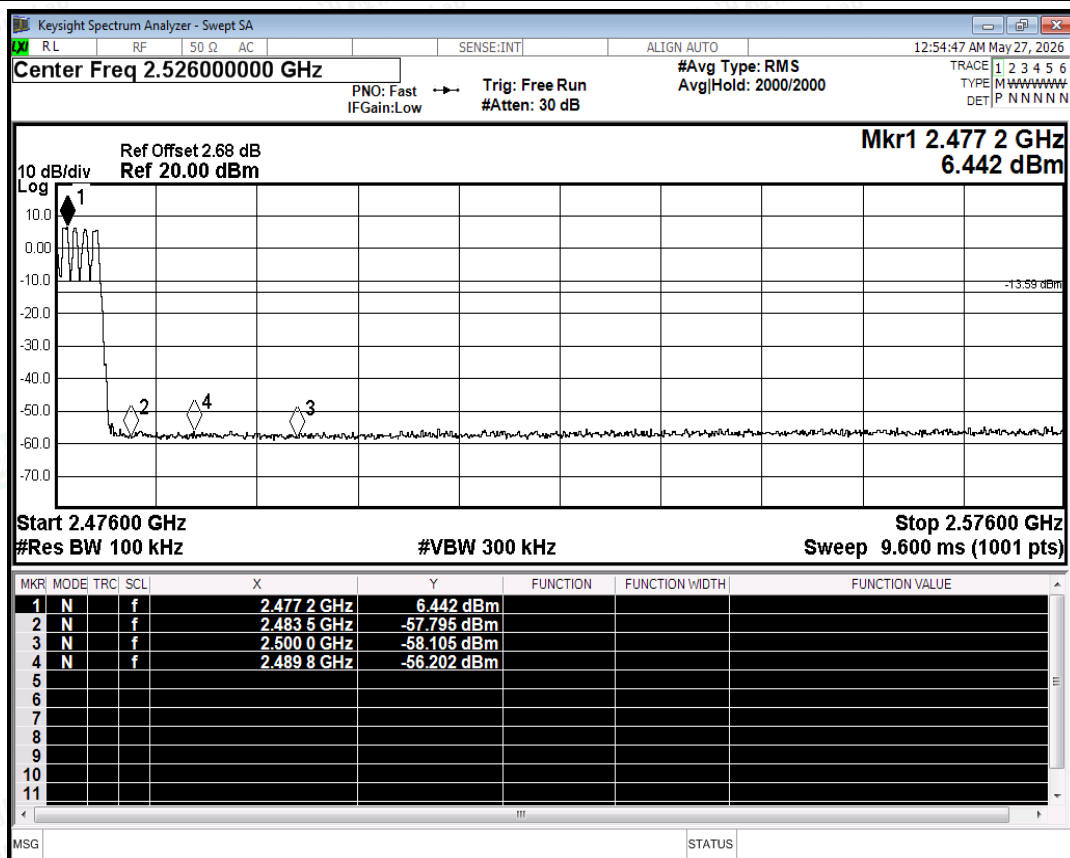
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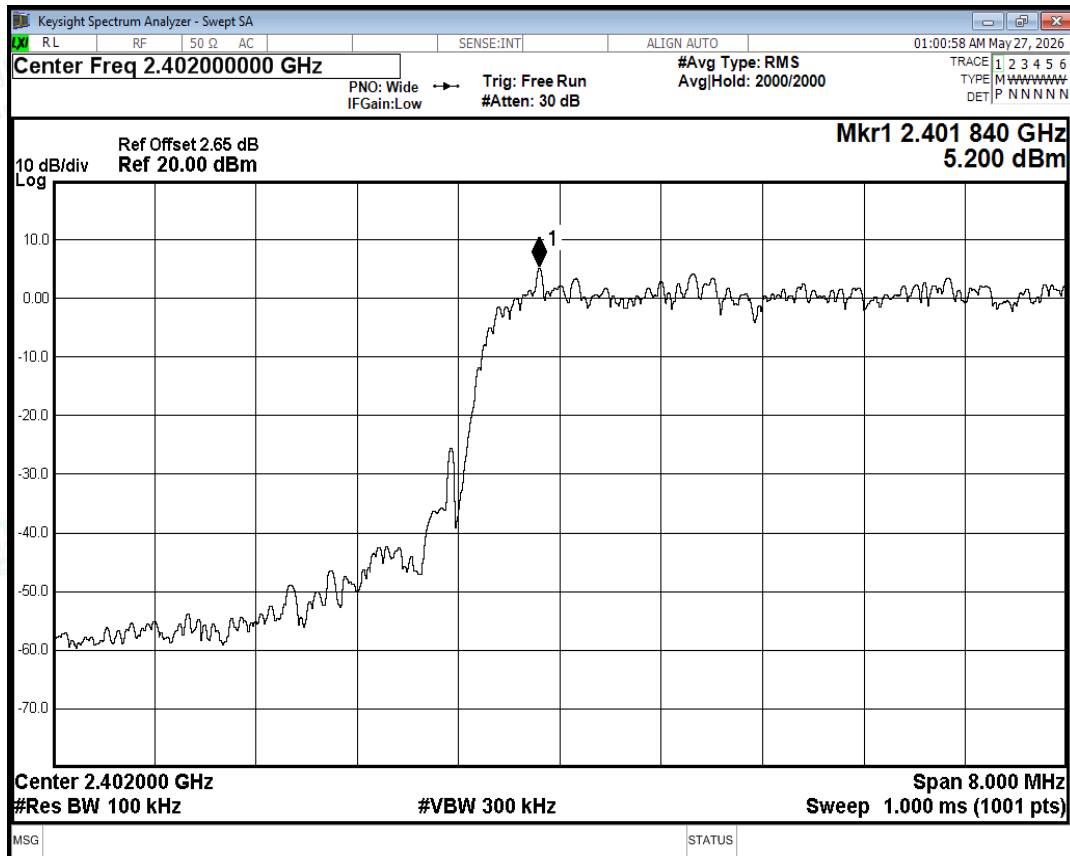


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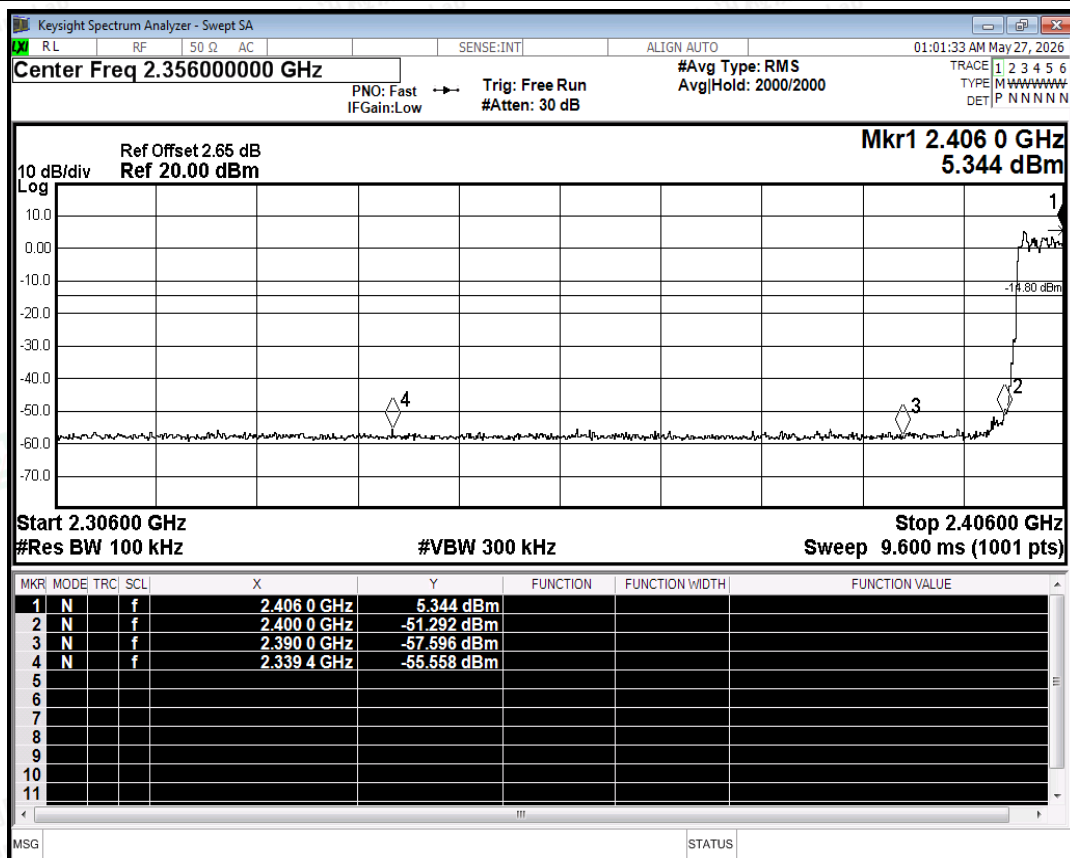
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref



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

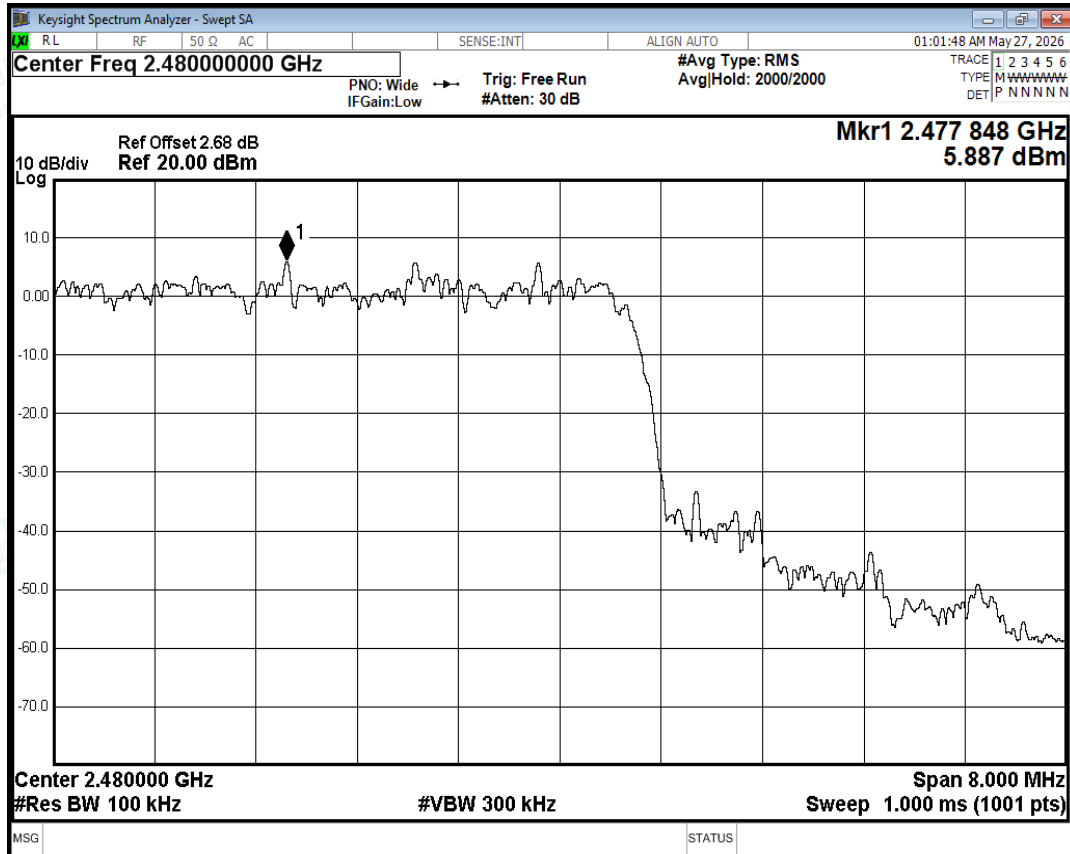


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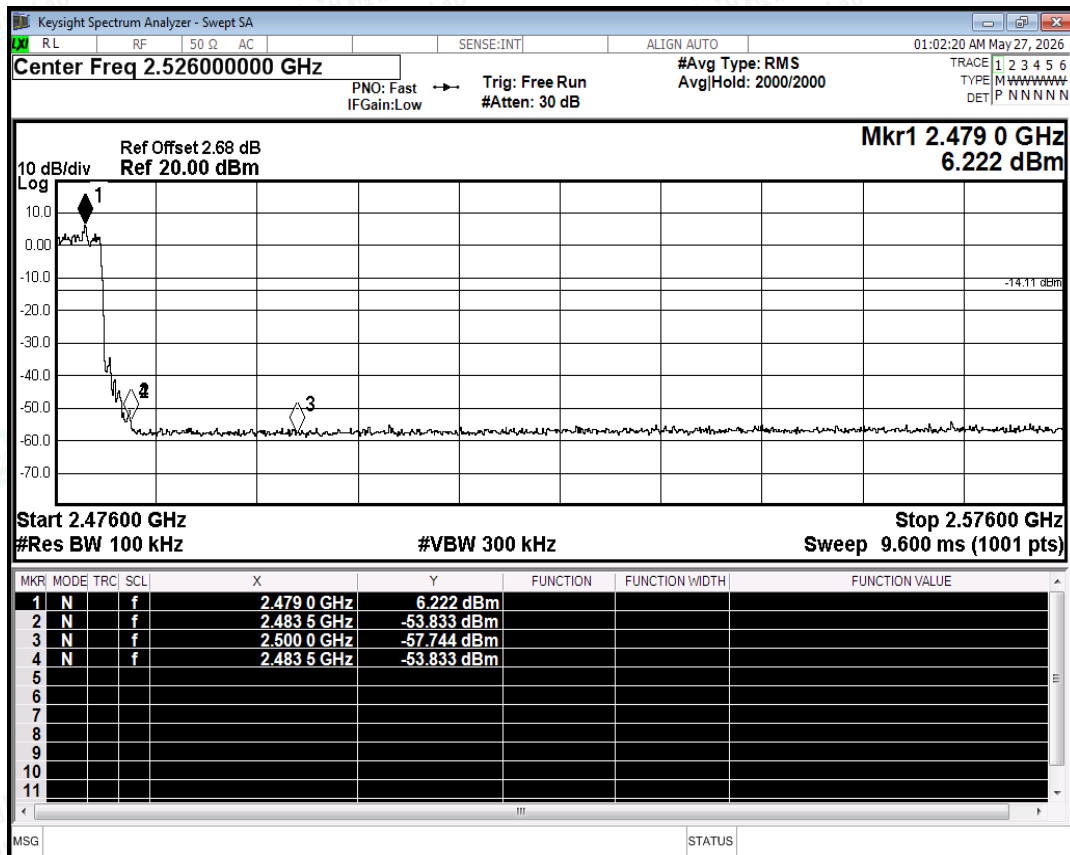
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

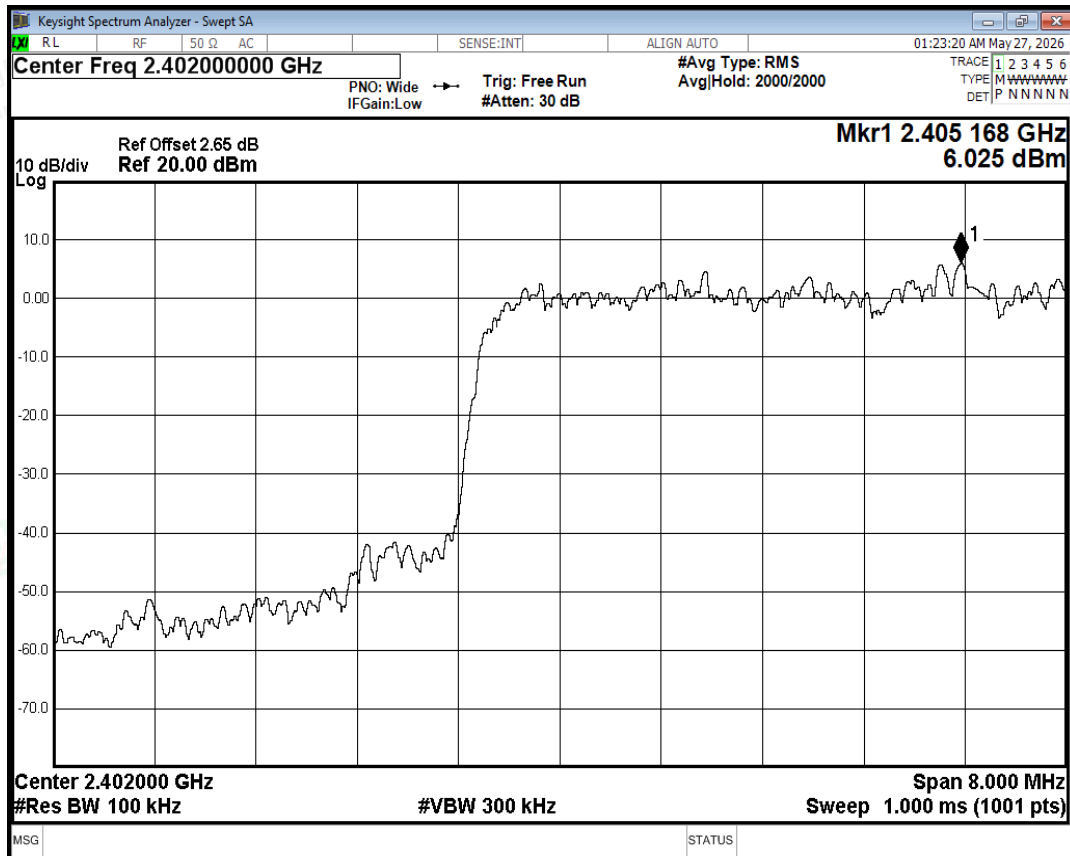


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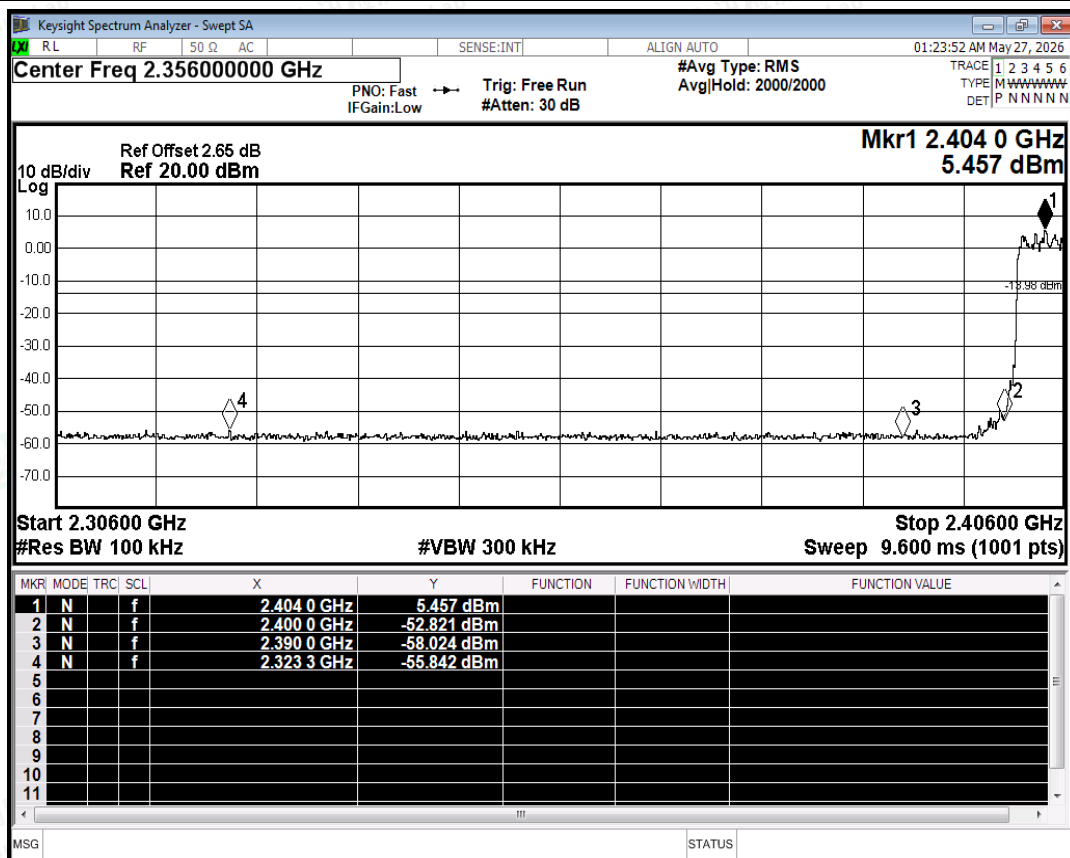
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

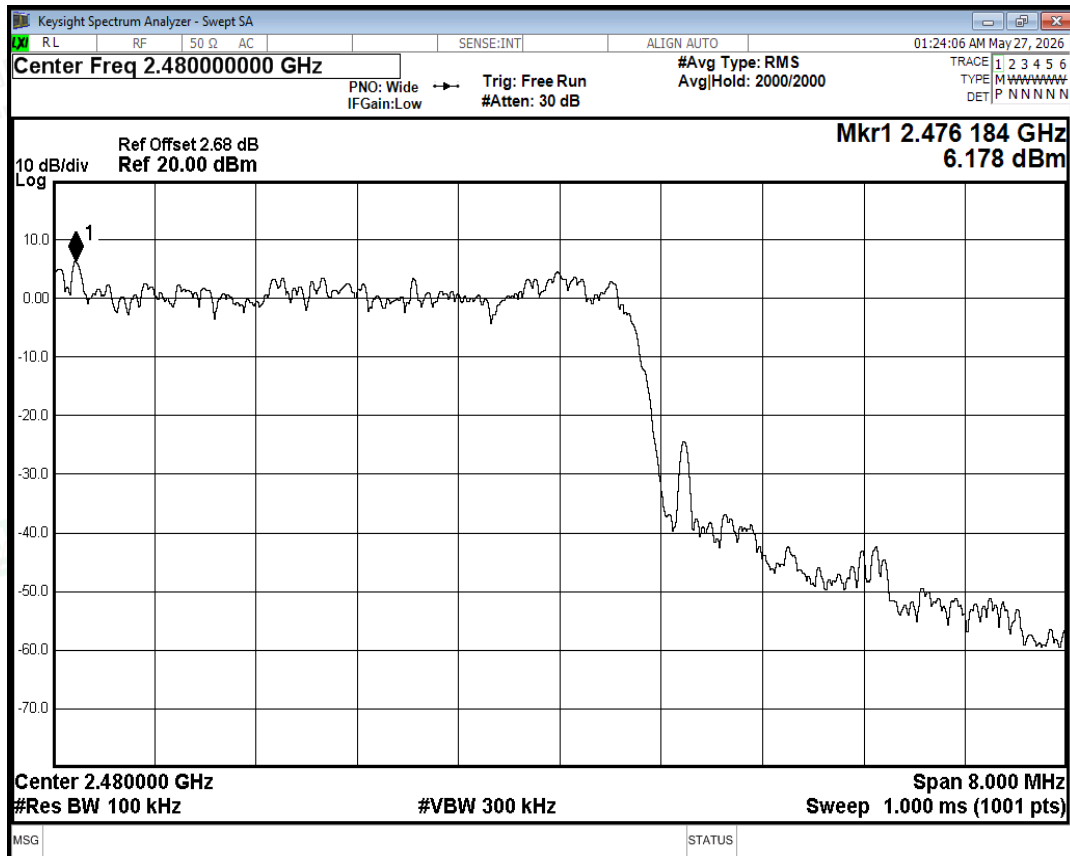


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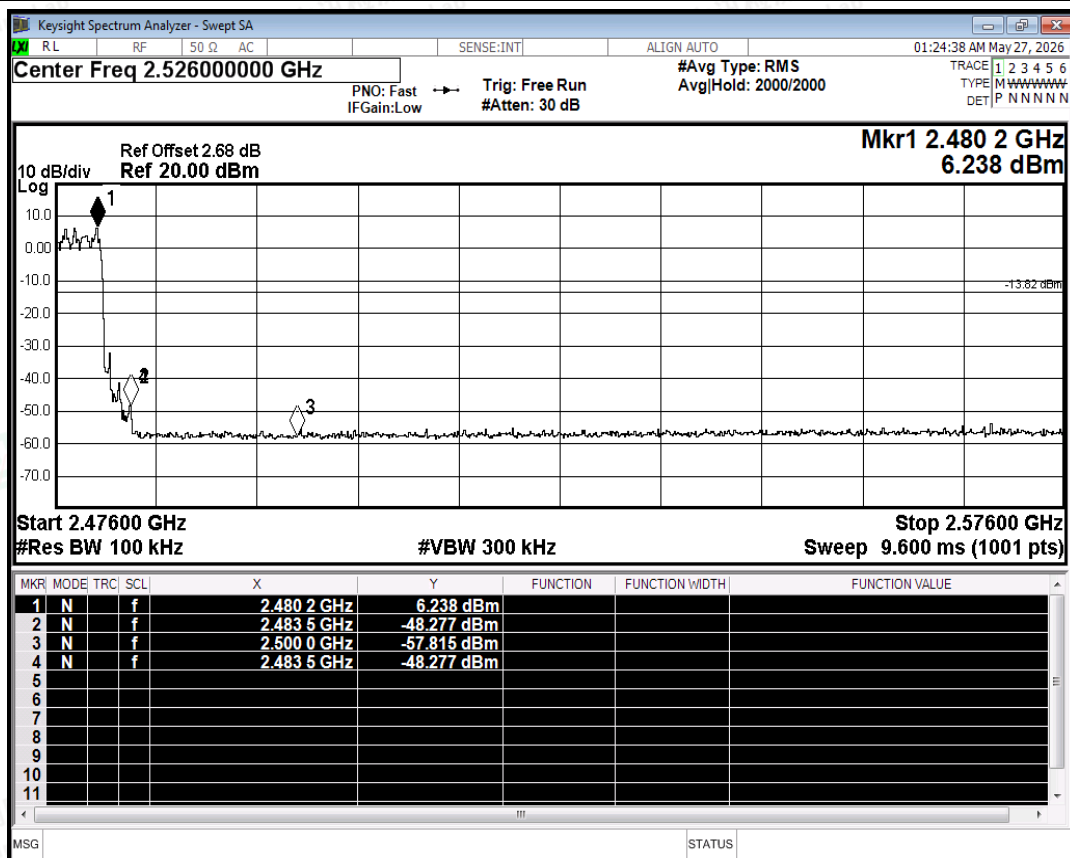
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Emission



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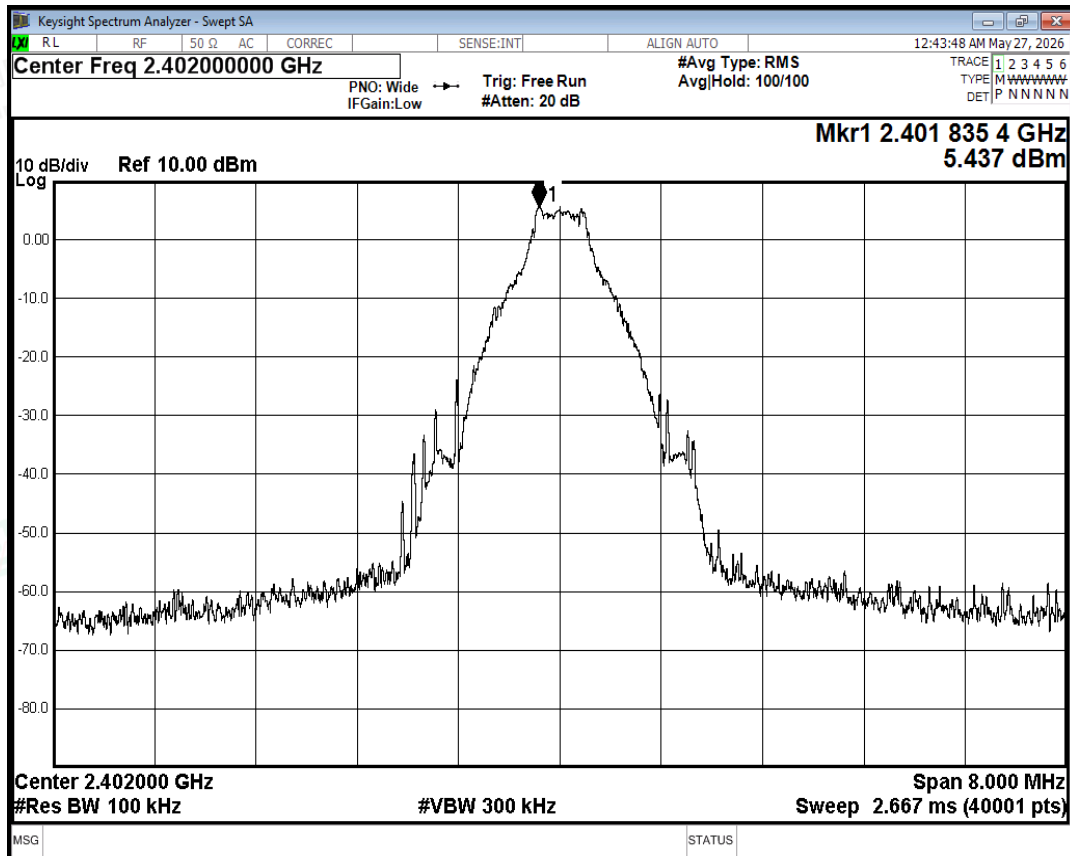


A.7 Conducted RF Spurious Emission

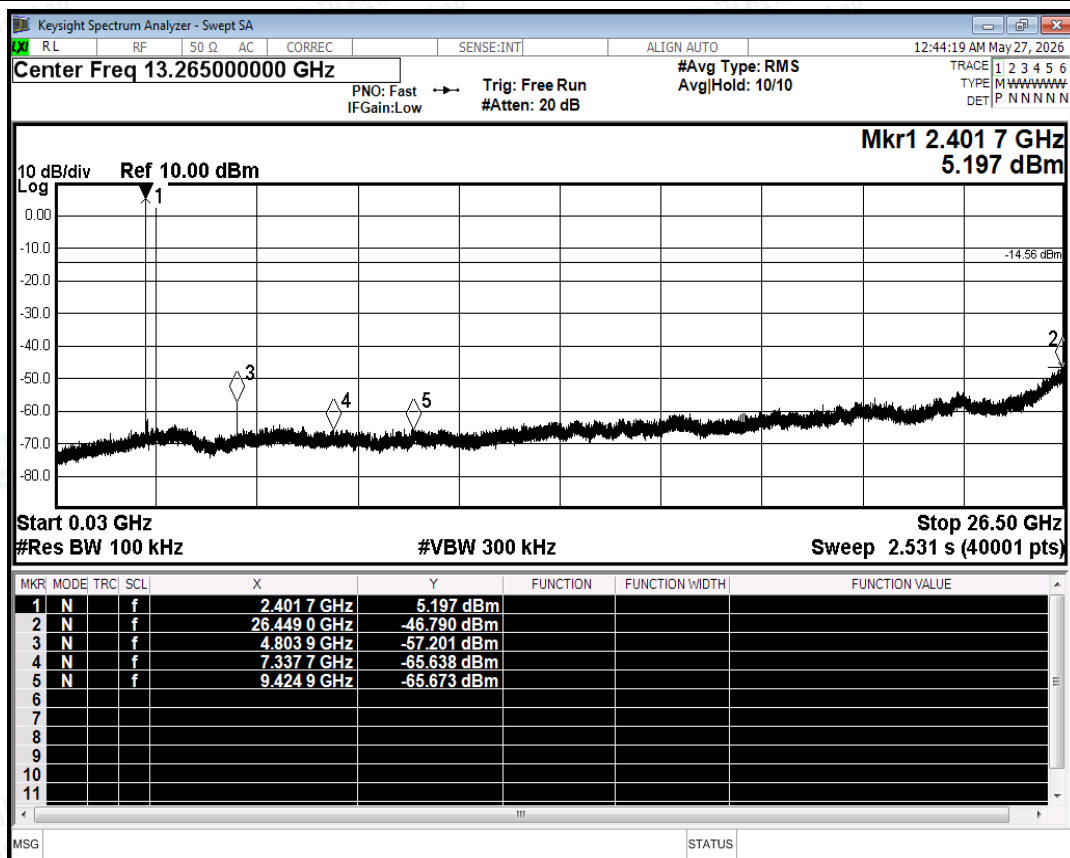
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-52.22	-20	Pass
NVNT	1-DH5	2441	Ant	-53.6	-20	Pass
NVNT	1-DH5	2480	Ant	-53.09	-20	Pass
NVNT	2-DH5	2402	Ant	-51.26	-20	Pass
NVNT	2-DH5	2441	Ant	-53.78	-20	Pass
NVNT	2-DH5	2480	Ant	-53.37	-20	Pass
NVNT	3-DH5	2402	Ant	-52.18	-20	Pass
NVNT	3-DH5	2441	Ant	-53.88	-20	Pass
NVNT	3-DH5	2480	Ant	-51.99	-20	Pass

Note: input compensation coefficient (dB)= Cable Loss (dB) + Attenuator attenuation value (dB)





Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

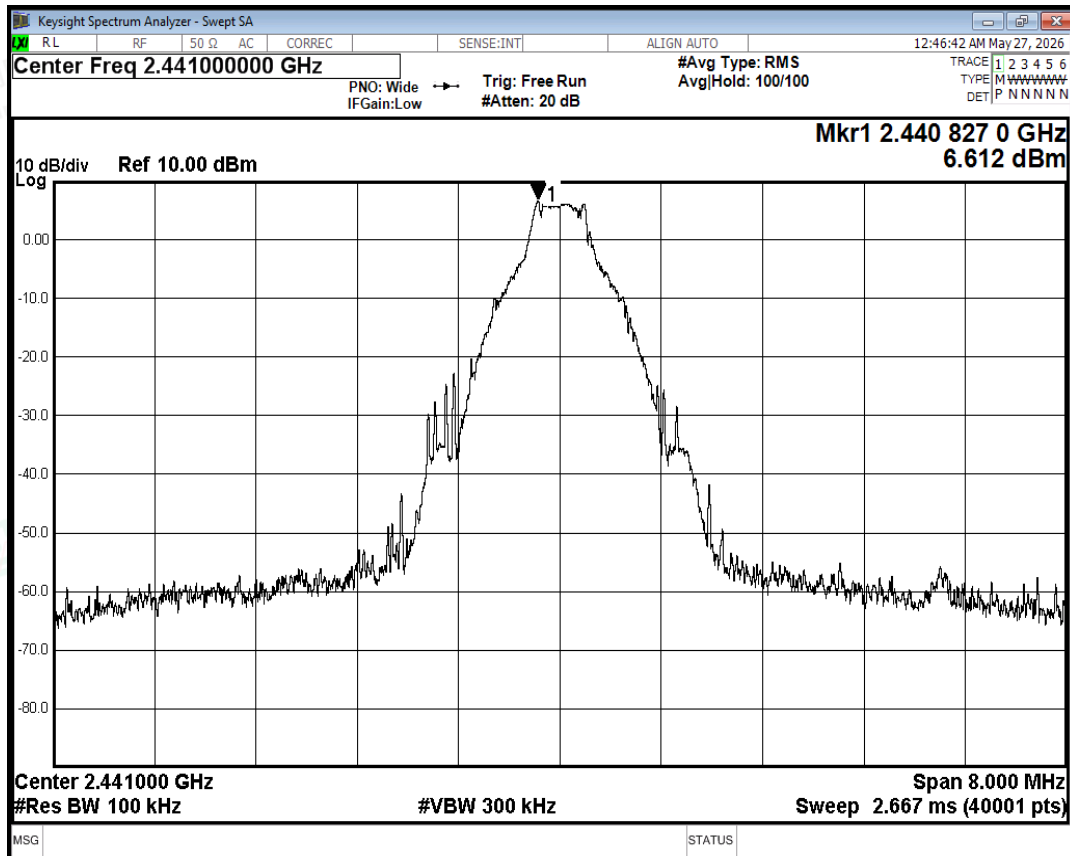


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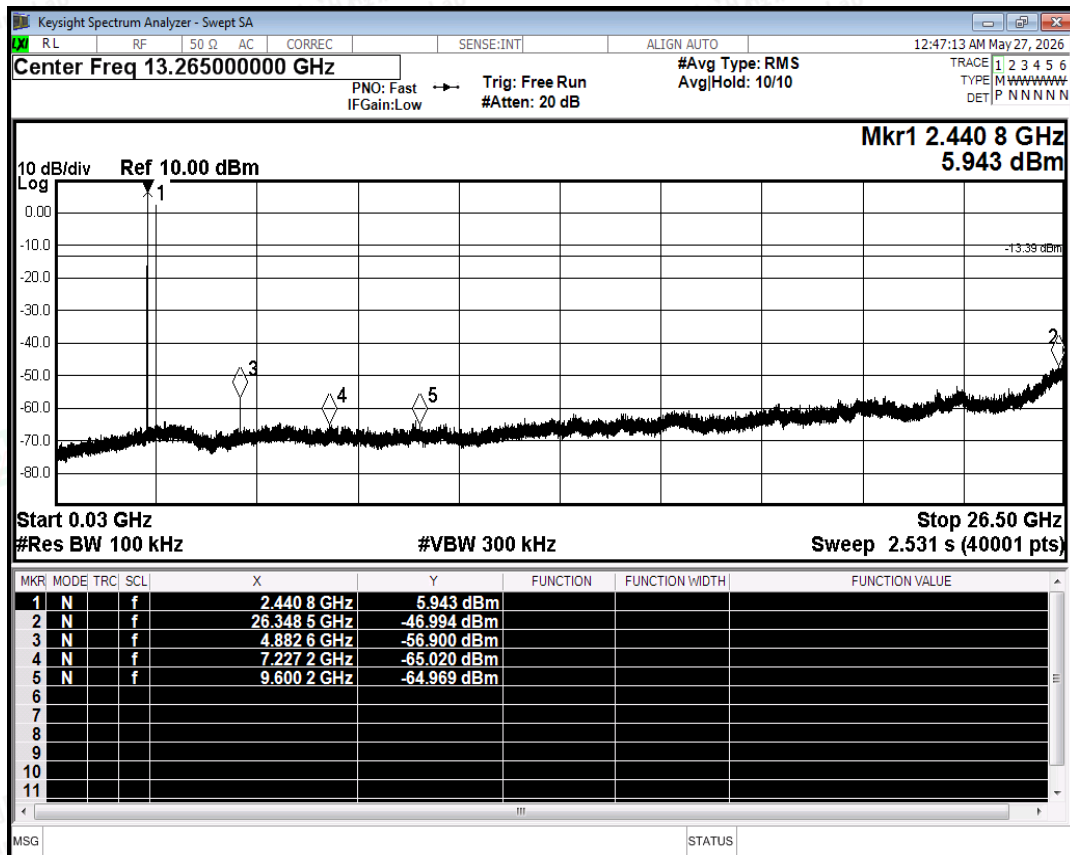
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Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

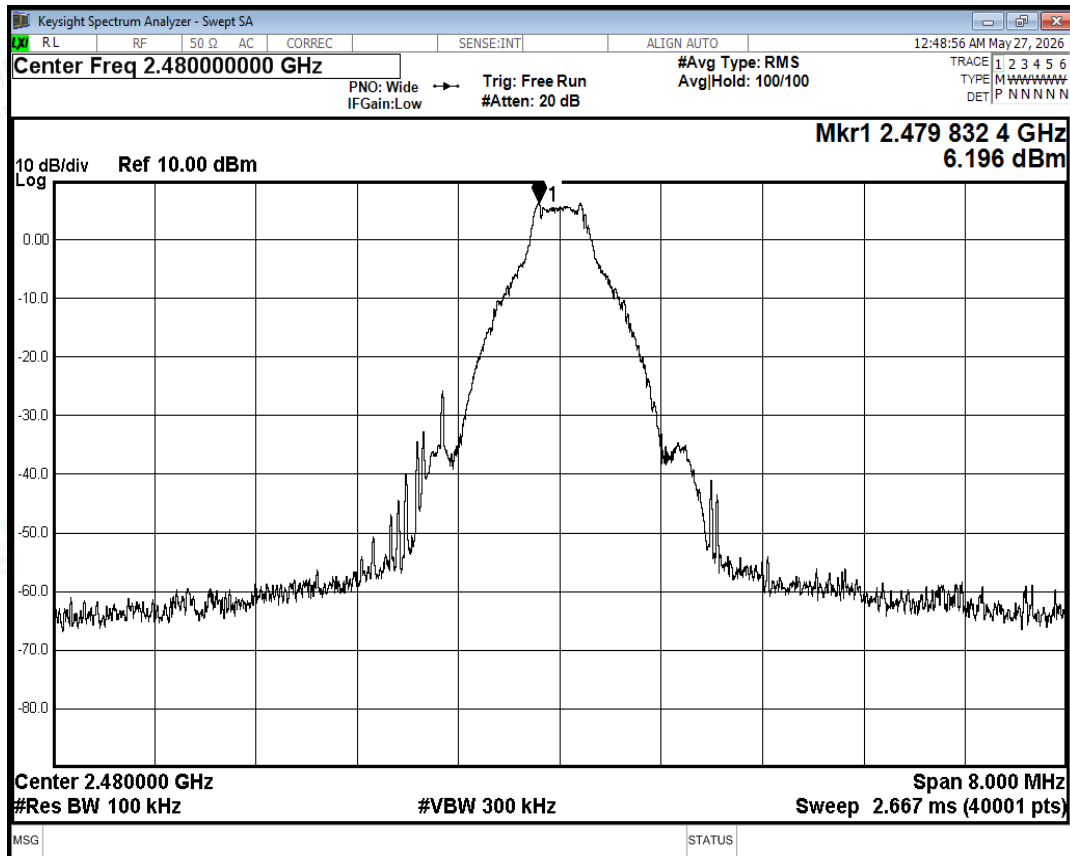


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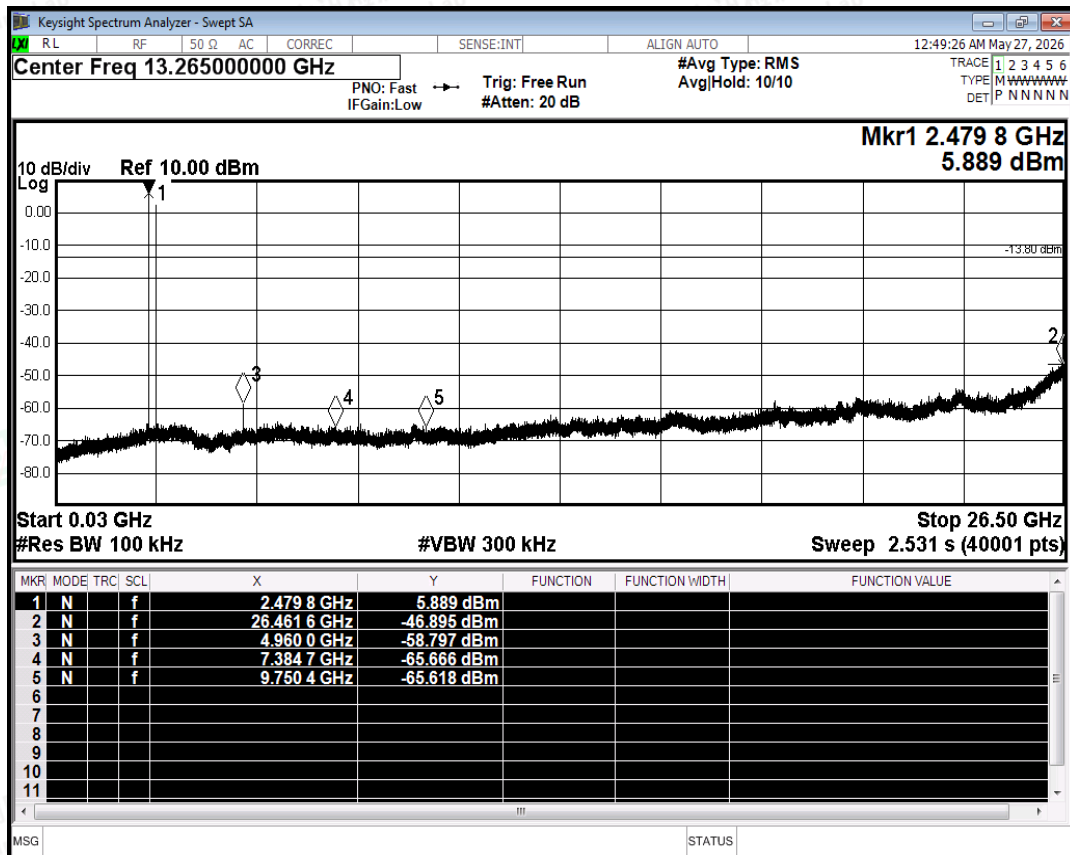
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

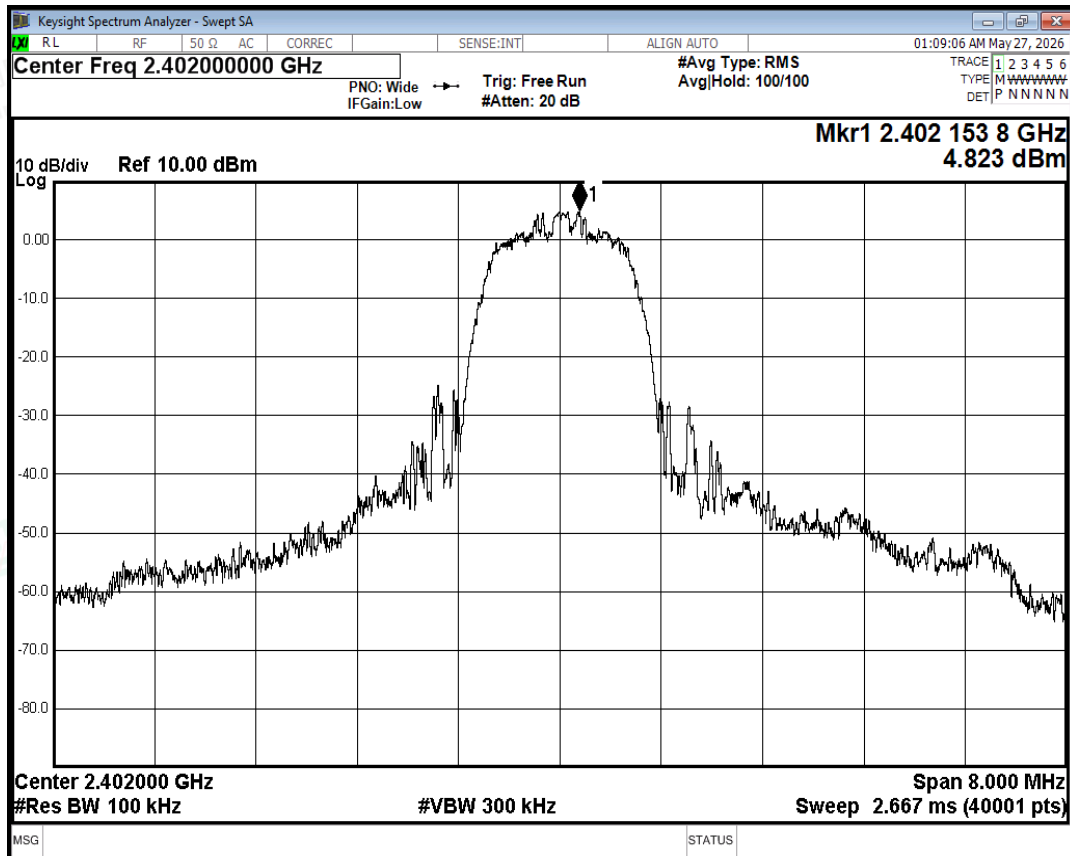


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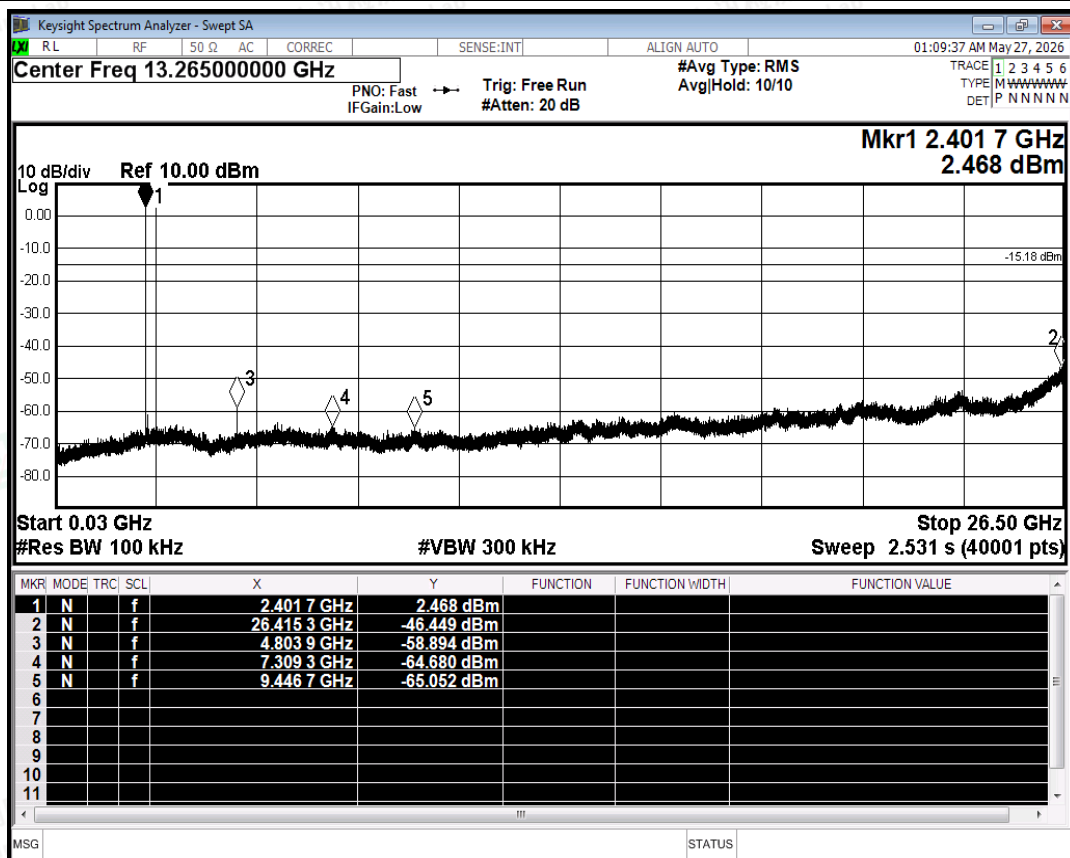
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Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

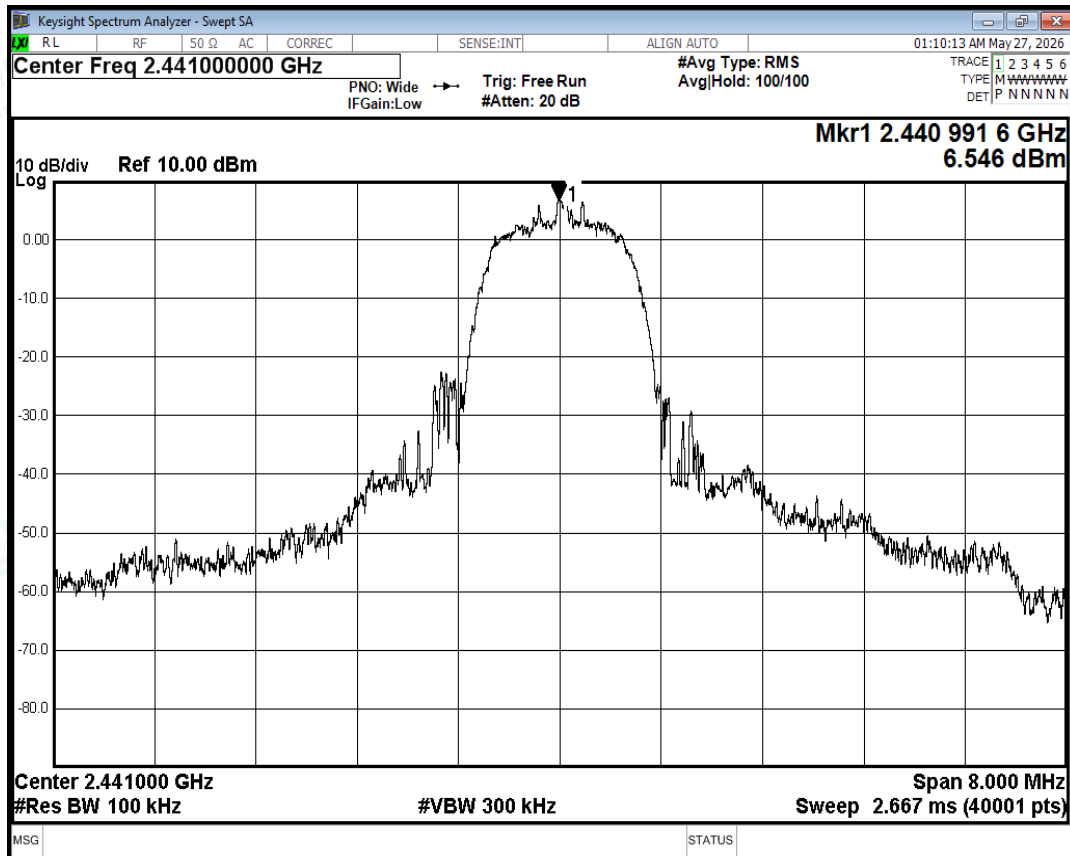


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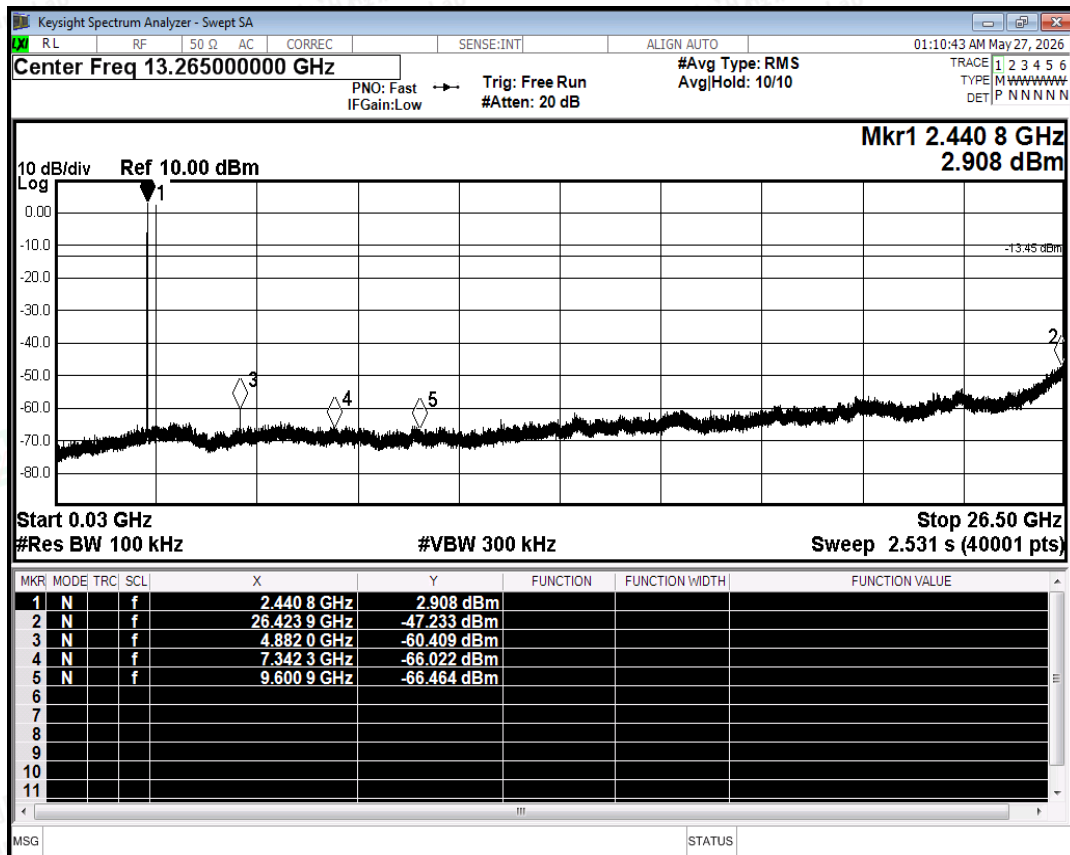
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission

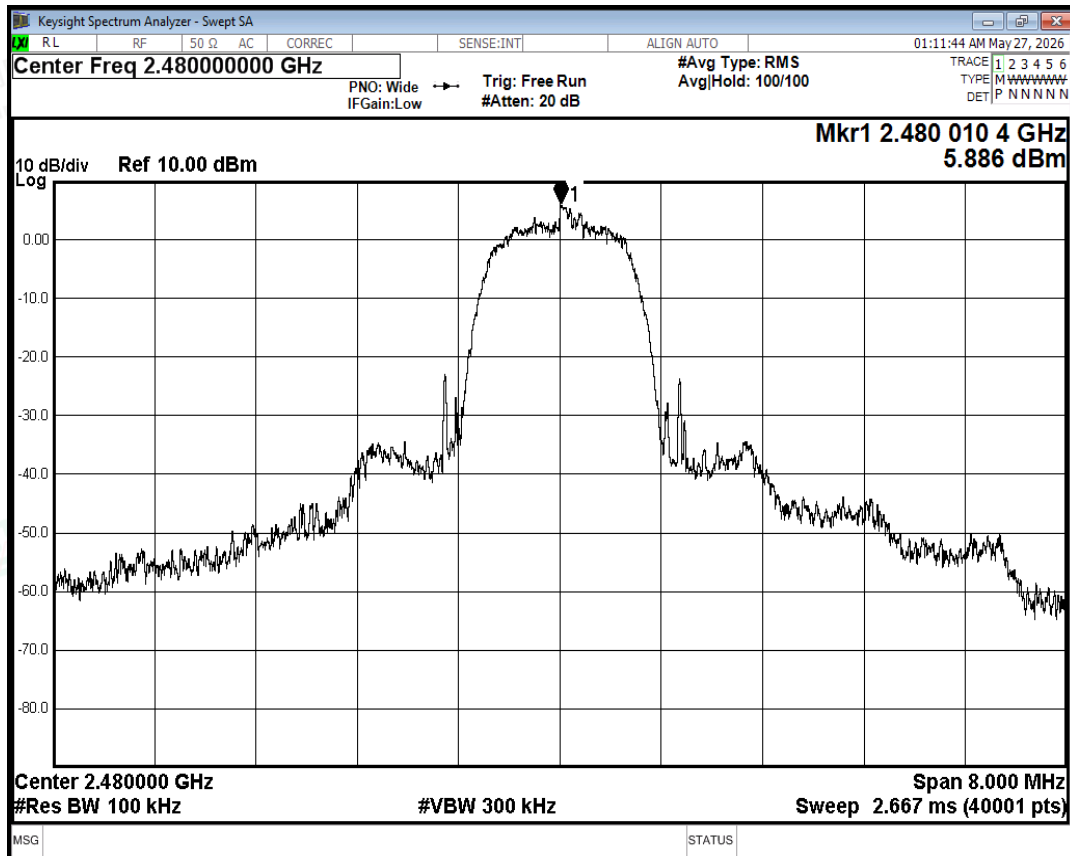


Shenzhen LCS Compliance Testing Laboratory Ltd.

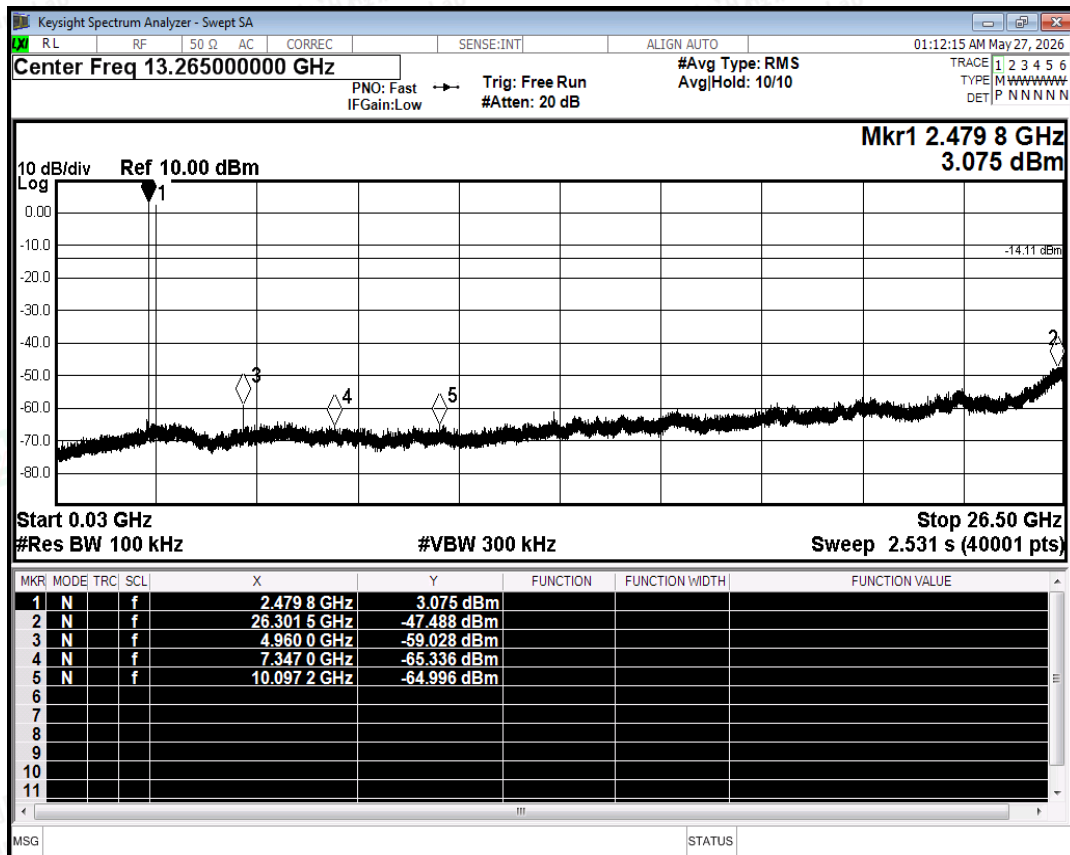
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission

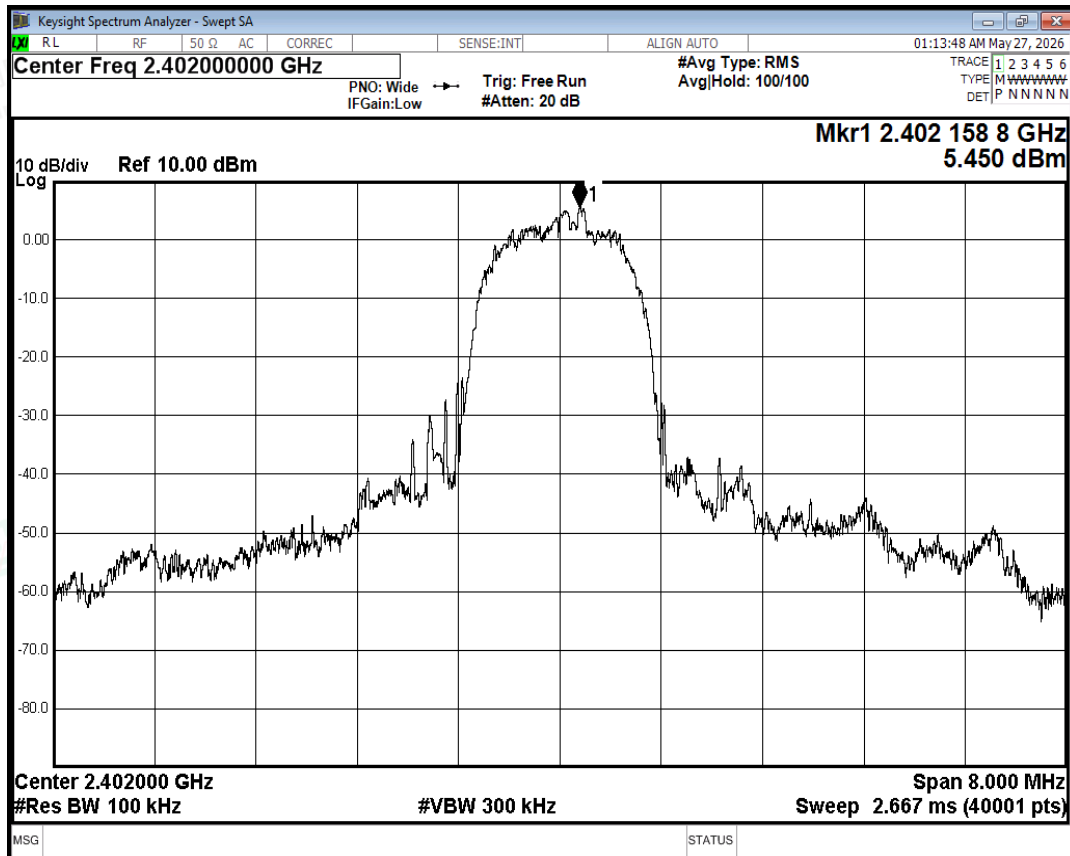


Shenzhen LCS Compliance Testing Laboratory Ltd.

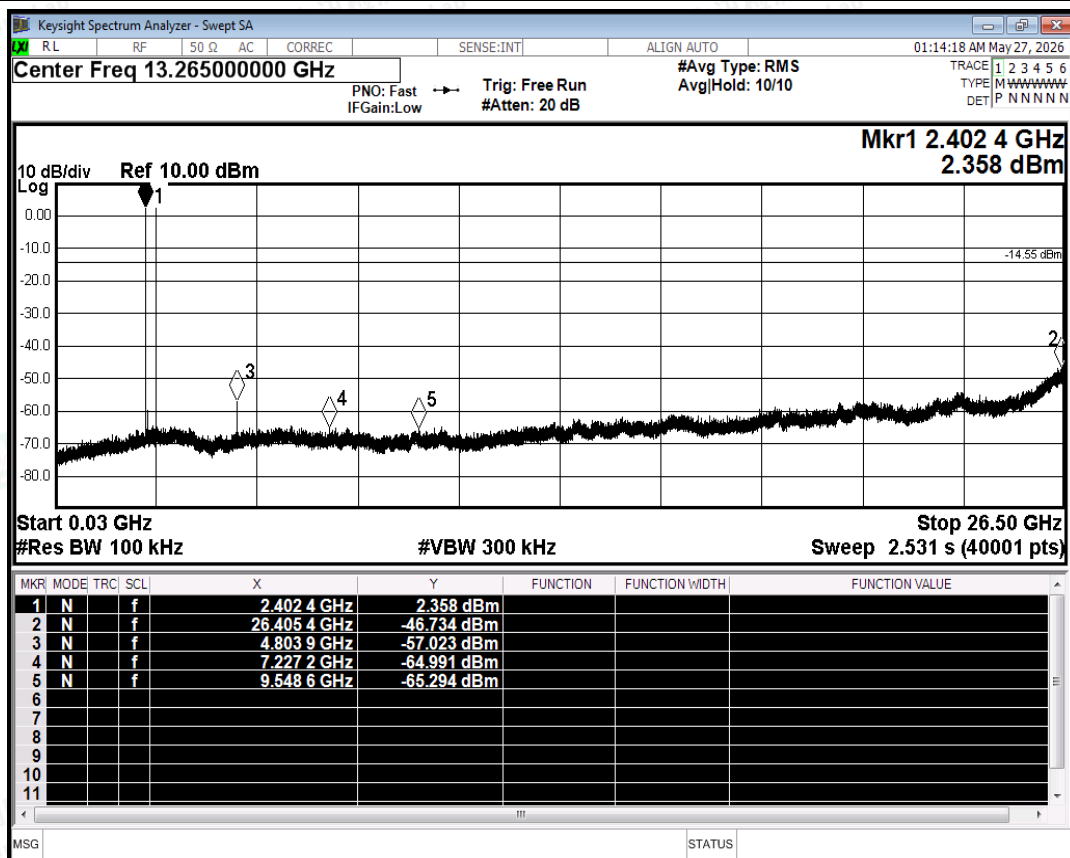
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

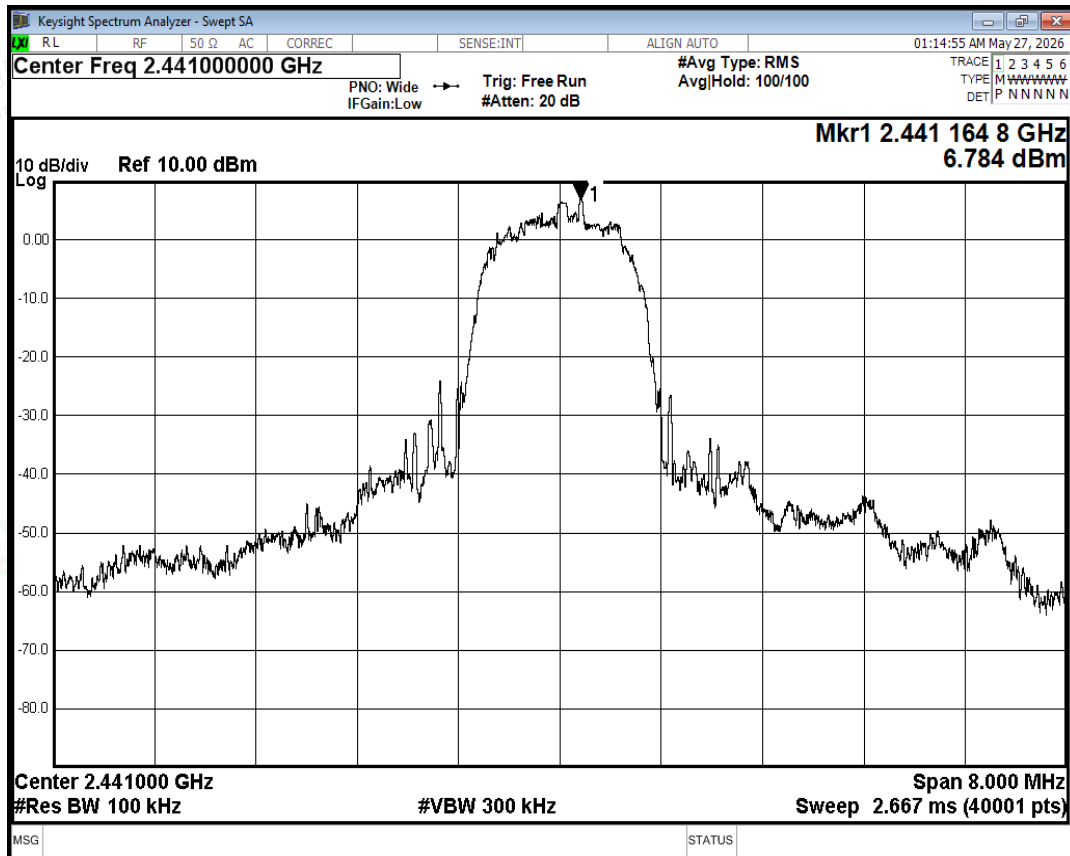


Shenzhen LCS Compliance Testing Laboratory Ltd.

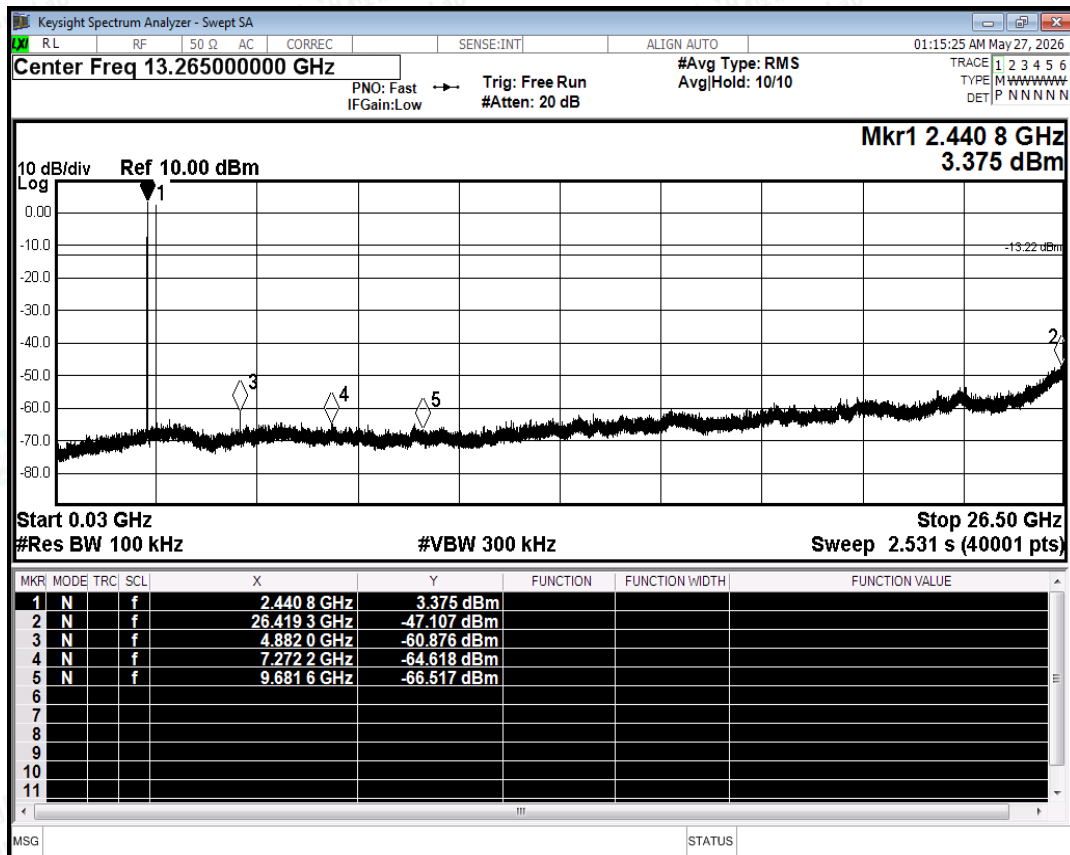
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Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

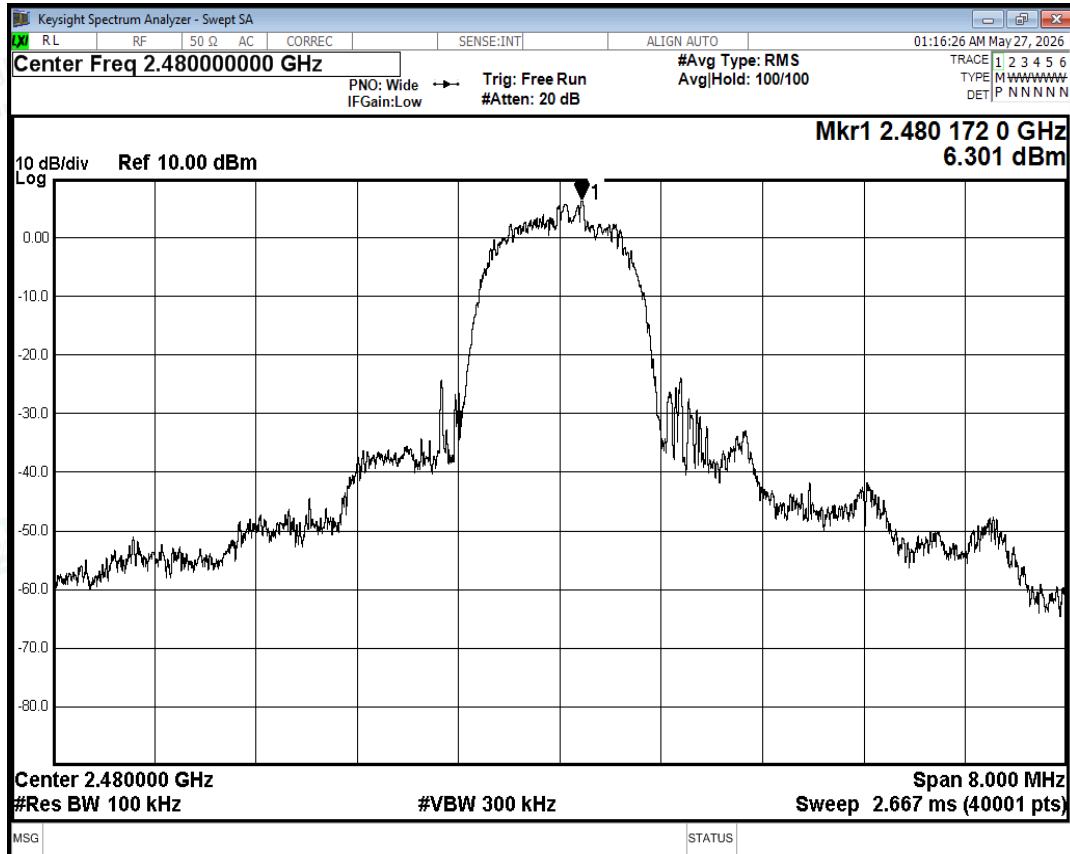


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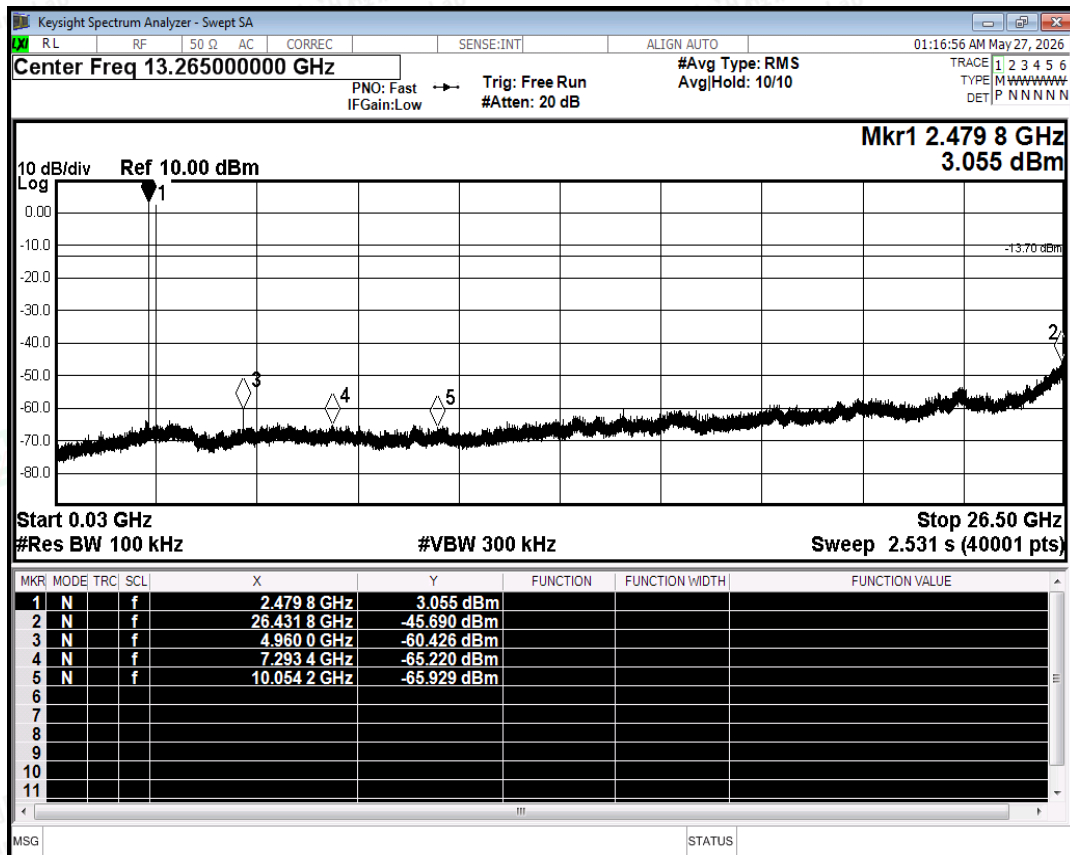
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Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant 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	Ant	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant	77.2	1.12	0.35
NVNT	3-DH5	2441	Ant	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant	77.2	1.12	0.35

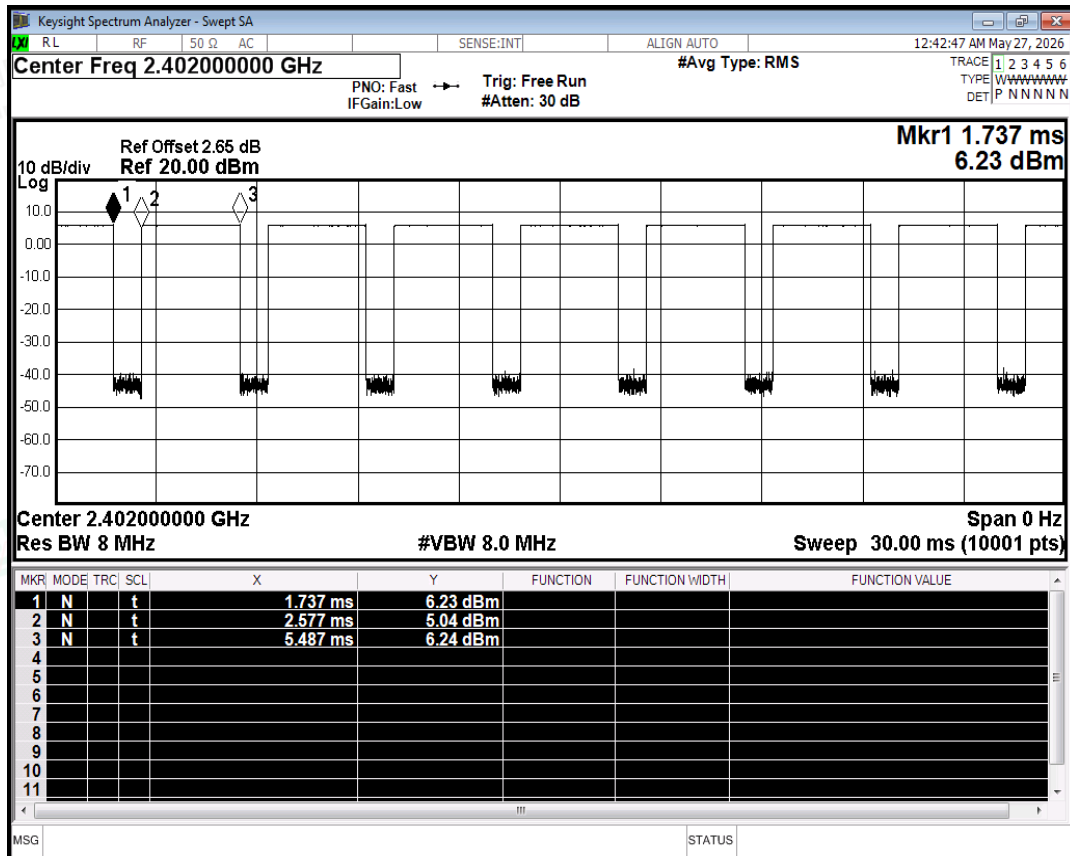


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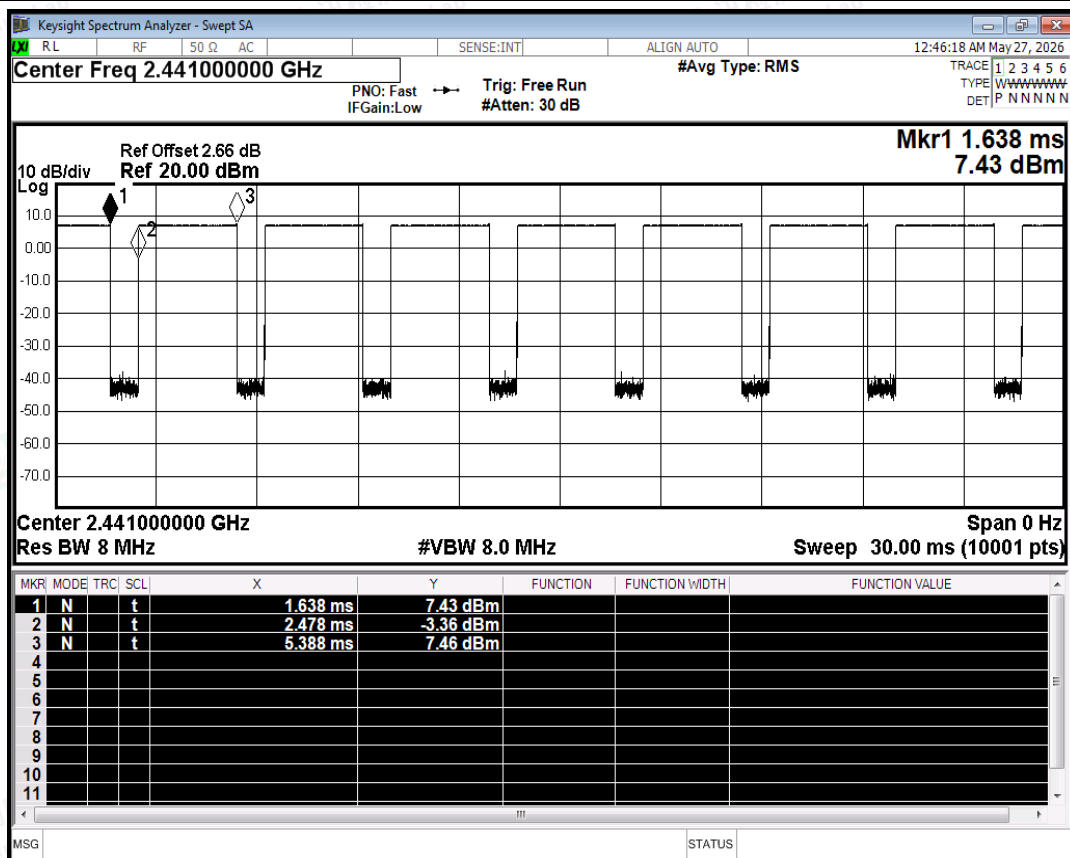
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Duty Cycle NVNT 1-DH5 2402MHz Ant



Duty Cycle NVNT 1-DH5 2441MHz Ant

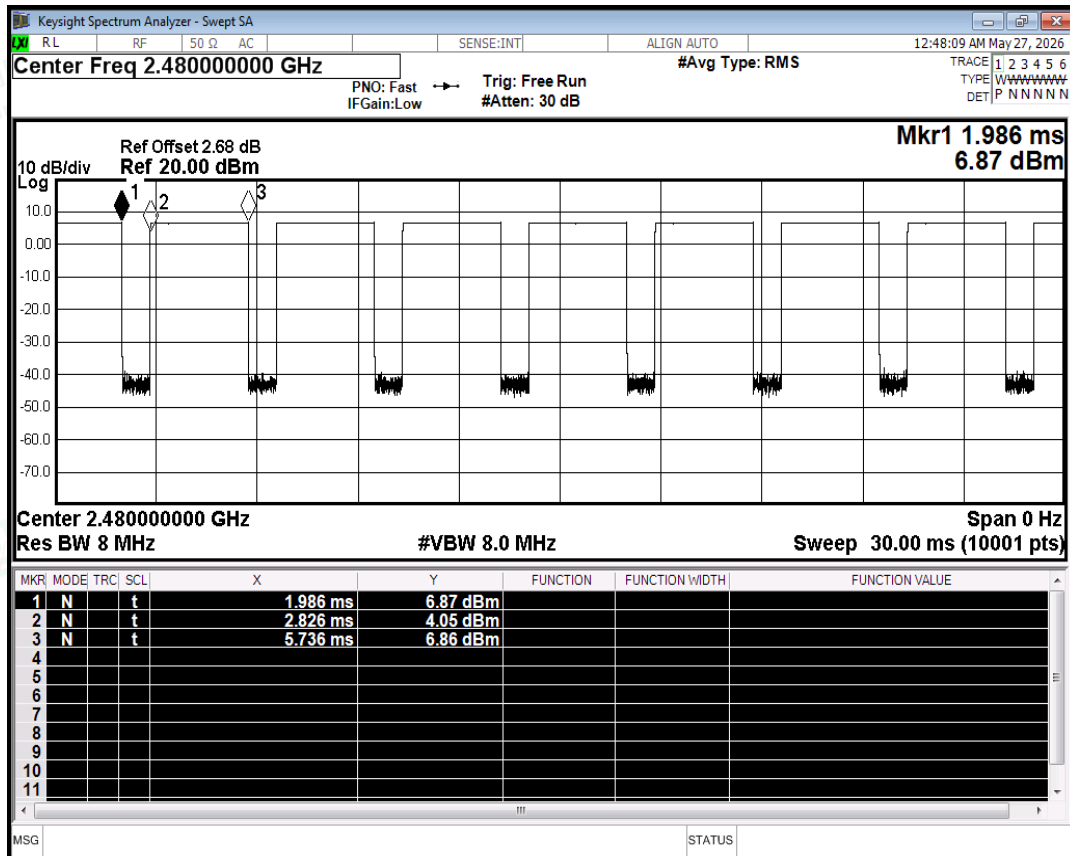


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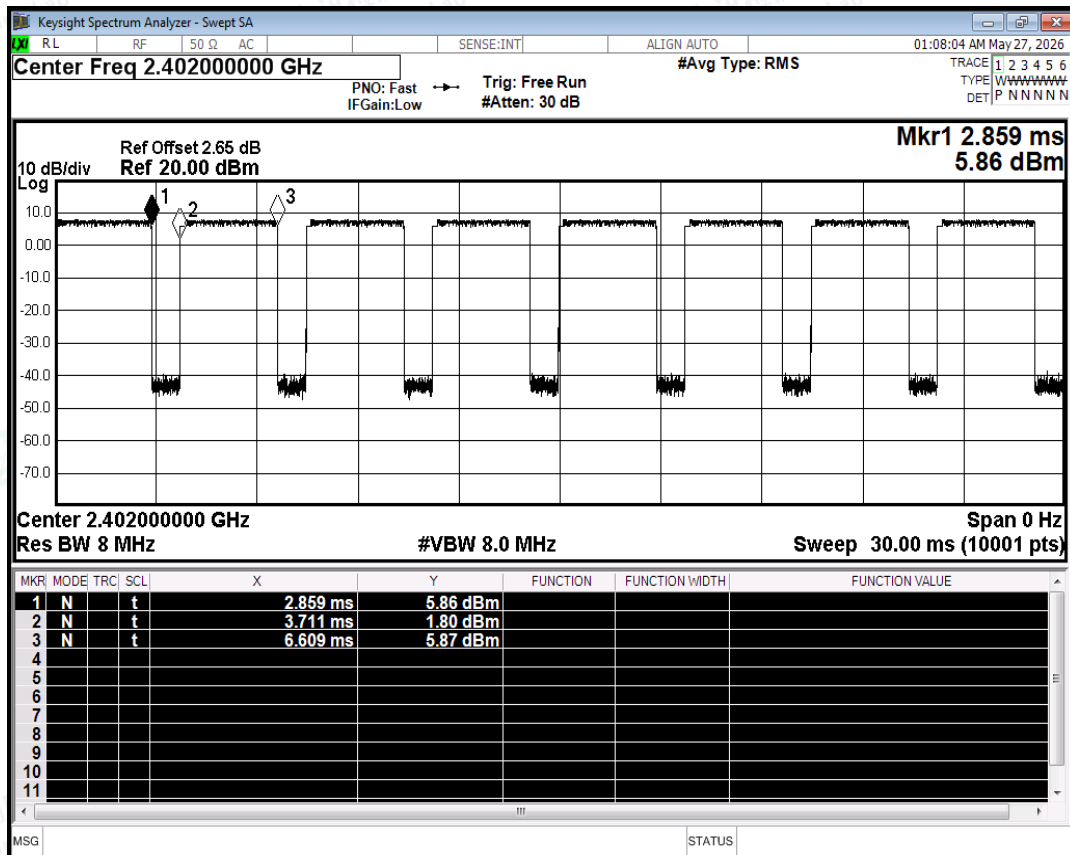
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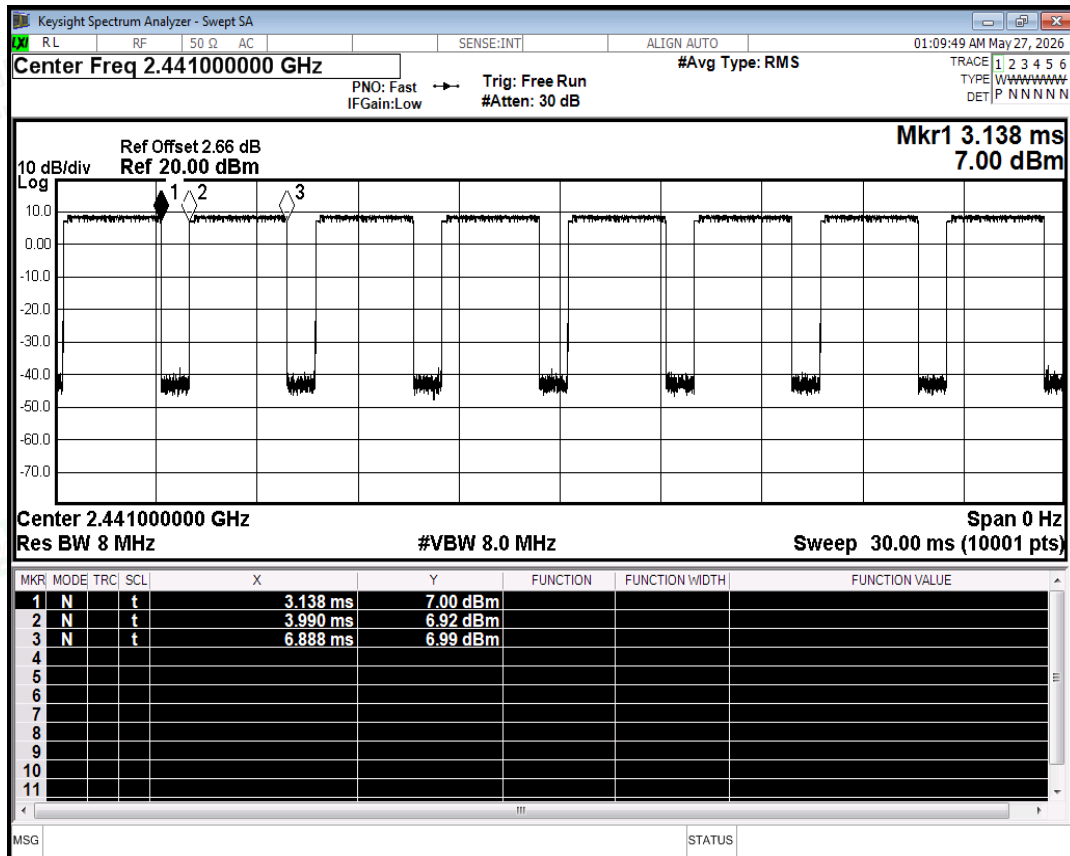


Duty Cycle NVNT 1-DH5 2480MHz Ant

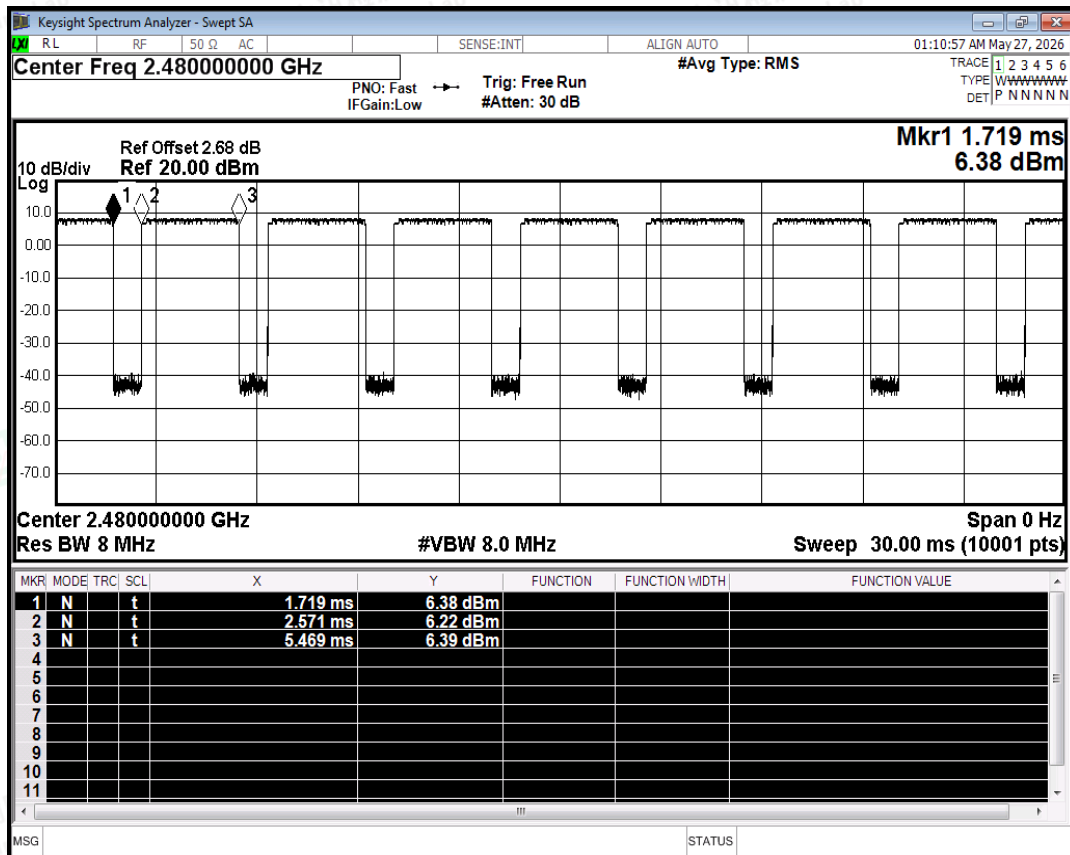


Duty Cycle NVNT 2-DH5 2402MHz Ant





Duty Cycle NVNT 2-DH5 2441MHz Ant



Duty Cycle NVNT 2-DH5 2480MHz Ant

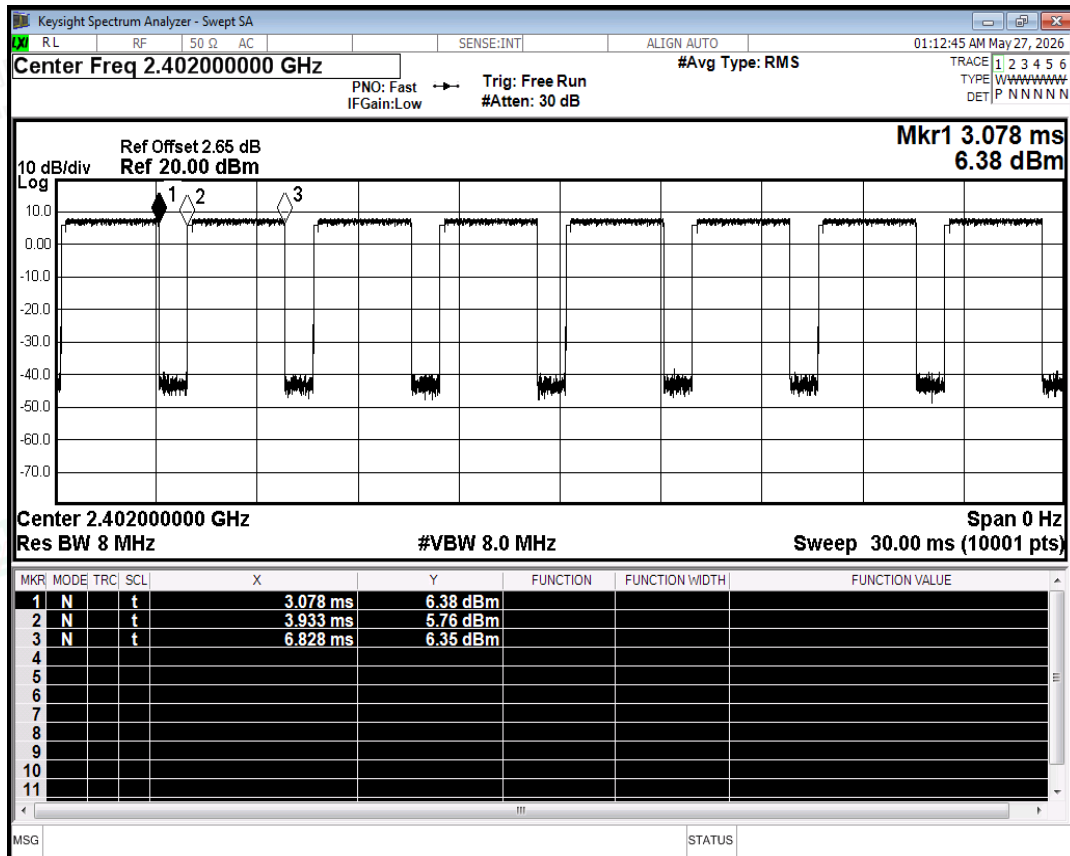


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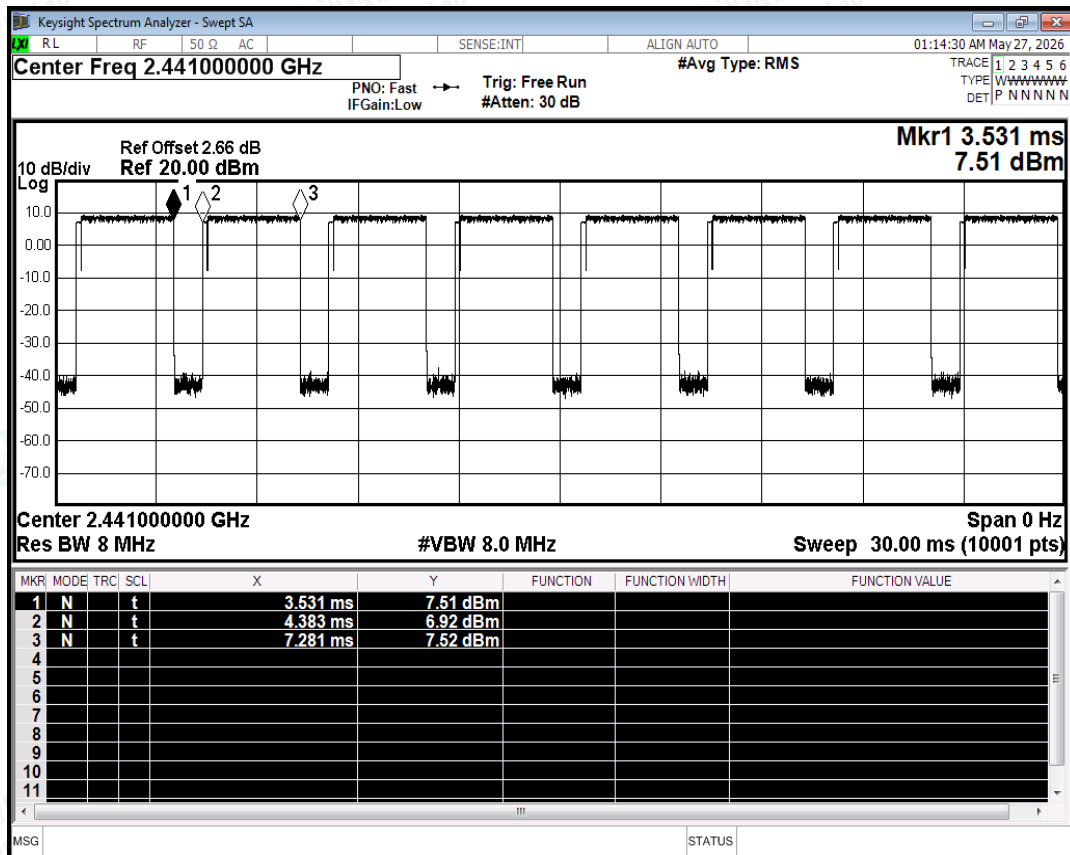
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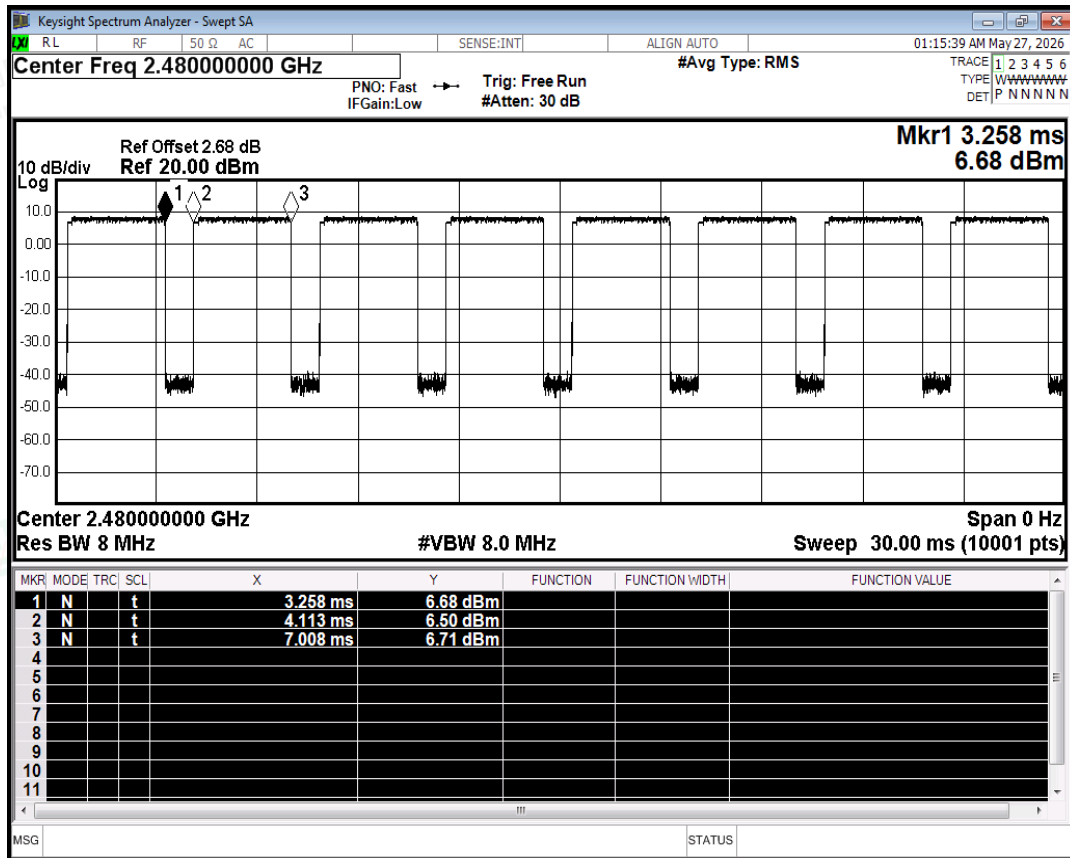


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant





Duty Cycle NVNT 3-DH5 2480MHz Ant



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A.9 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-DH5	2402	Ant	No-Hopping	2310	-49.64	2	47.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-57.18	2	40.08	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2342.064	-47.01	2	50.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2320.56	-57	2	40.26	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-49.24	2	48.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.2	2	40.06	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-49.23	2	48.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-52.57	2	44.69	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2484.448	-38.82	2	58.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-52.57	2	44.69	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.03	2	47.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.04	2	40.22	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-49.32	2	47.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-57.18	2	40.08	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2373.84	-46.57	2	50.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2313.456	-56.97	2	40.29	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-49.83	2	47.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.2	2	40.06	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-38.29	2	58.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-48.58	2	48.68	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-38.29	2	58.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-48.58	2	48.68	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-47.42	2	49.84	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-56.98	2	40.28	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-48.85	2	48.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-57.15	2	40.11	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2330.256	-47	2	50.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2318.352	-57.01	2	40.25	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.6	2	47.66	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.22	2	40.04	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-39.38	2	57.88	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-48.08	2	49.18	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.56	-38.11	2	59.15	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-48.08	2	49.18	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.39	2	46.87	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-56.95	2	40.31	Average	54	Pass

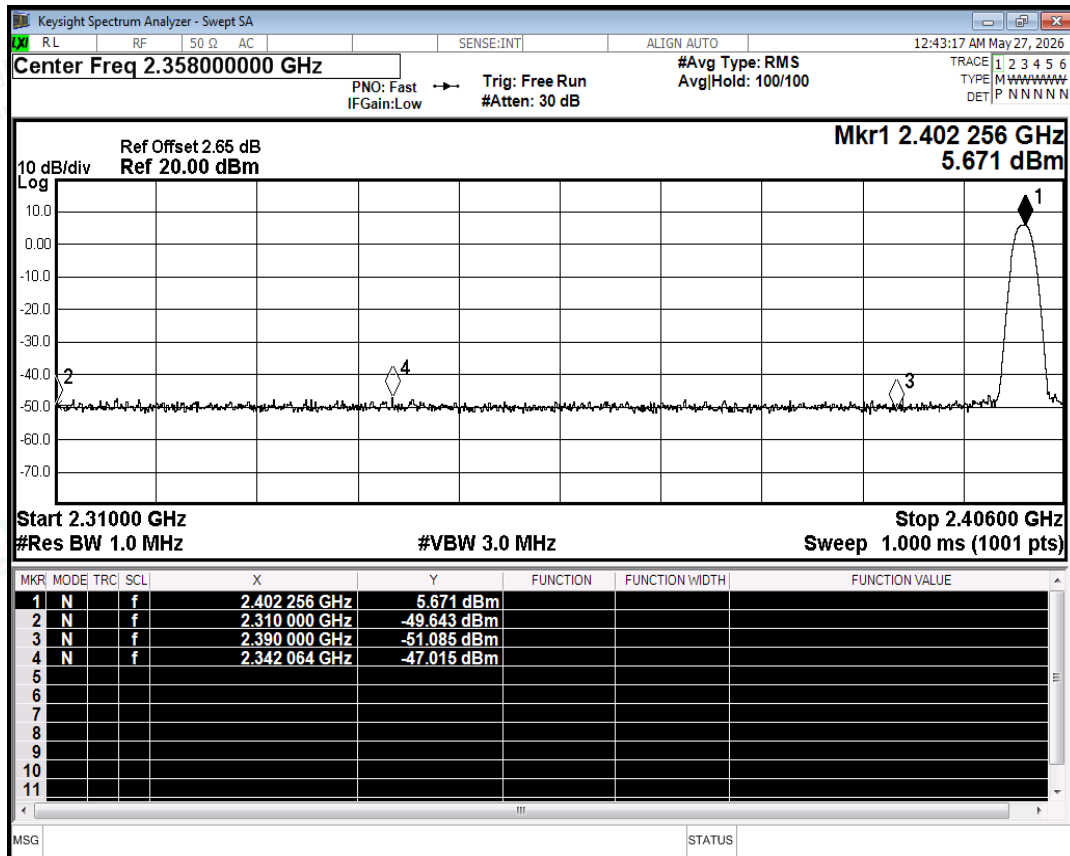


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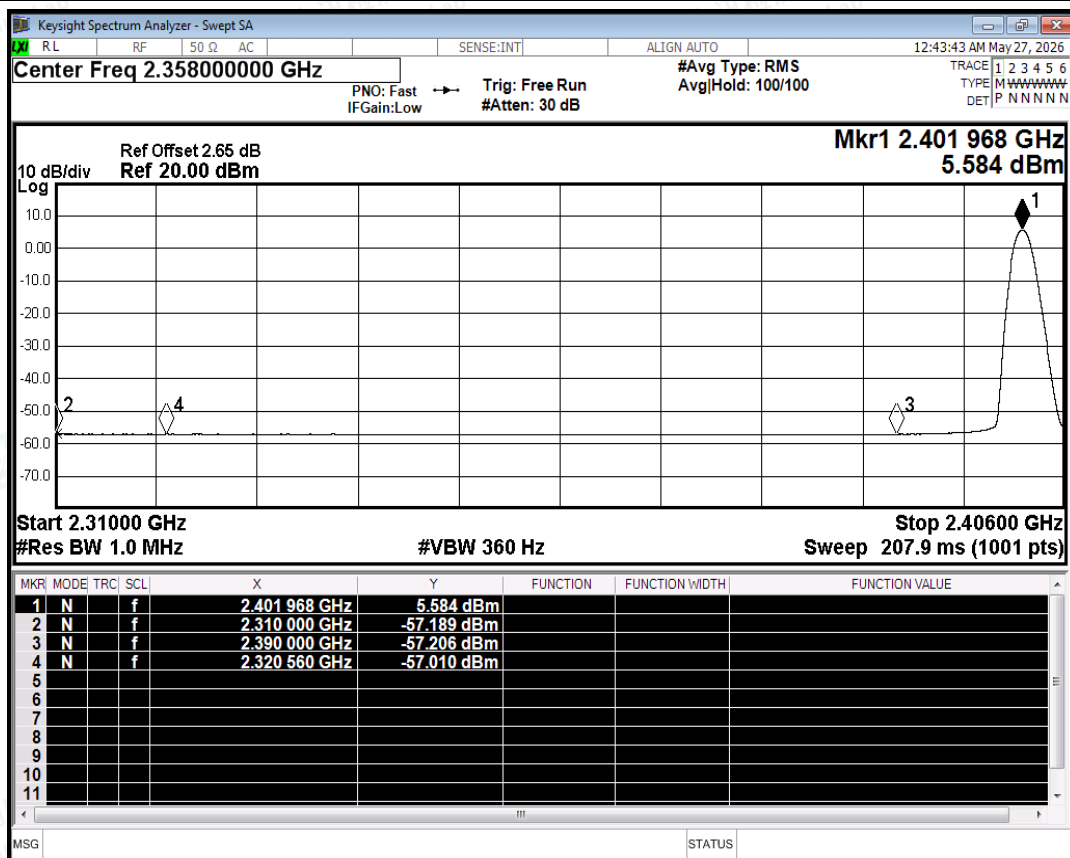
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Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Peak



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

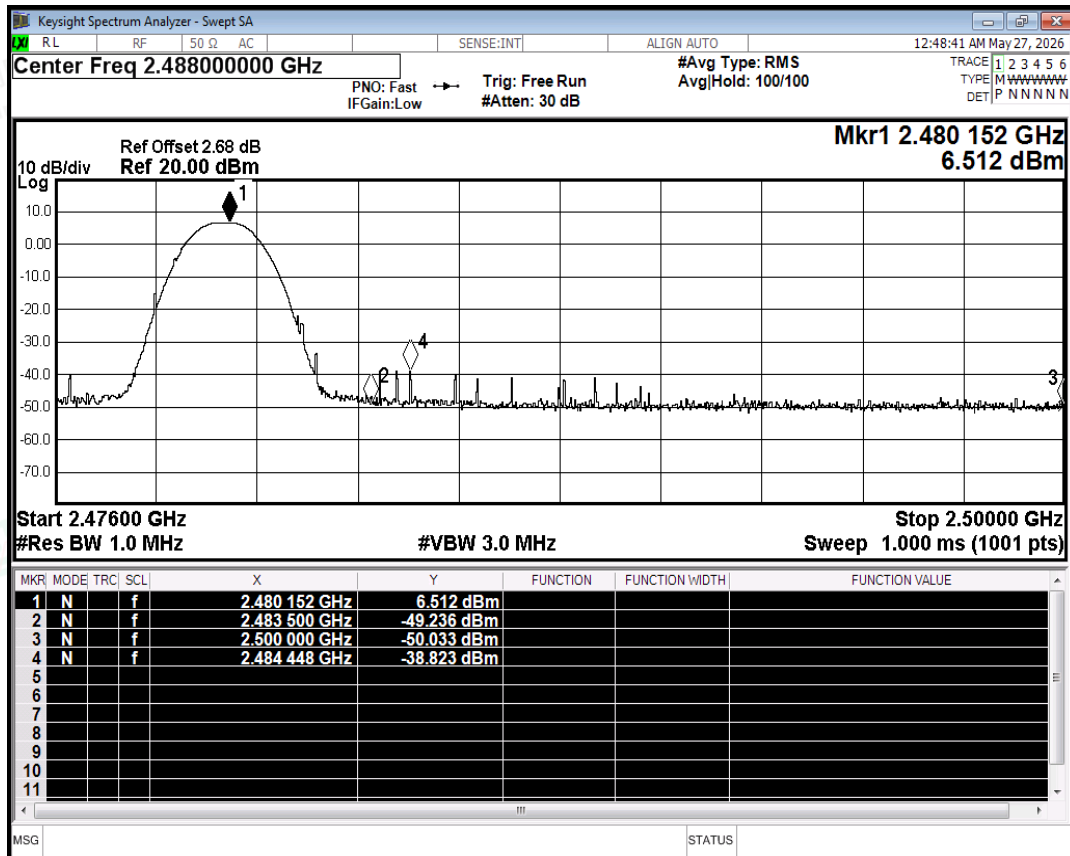


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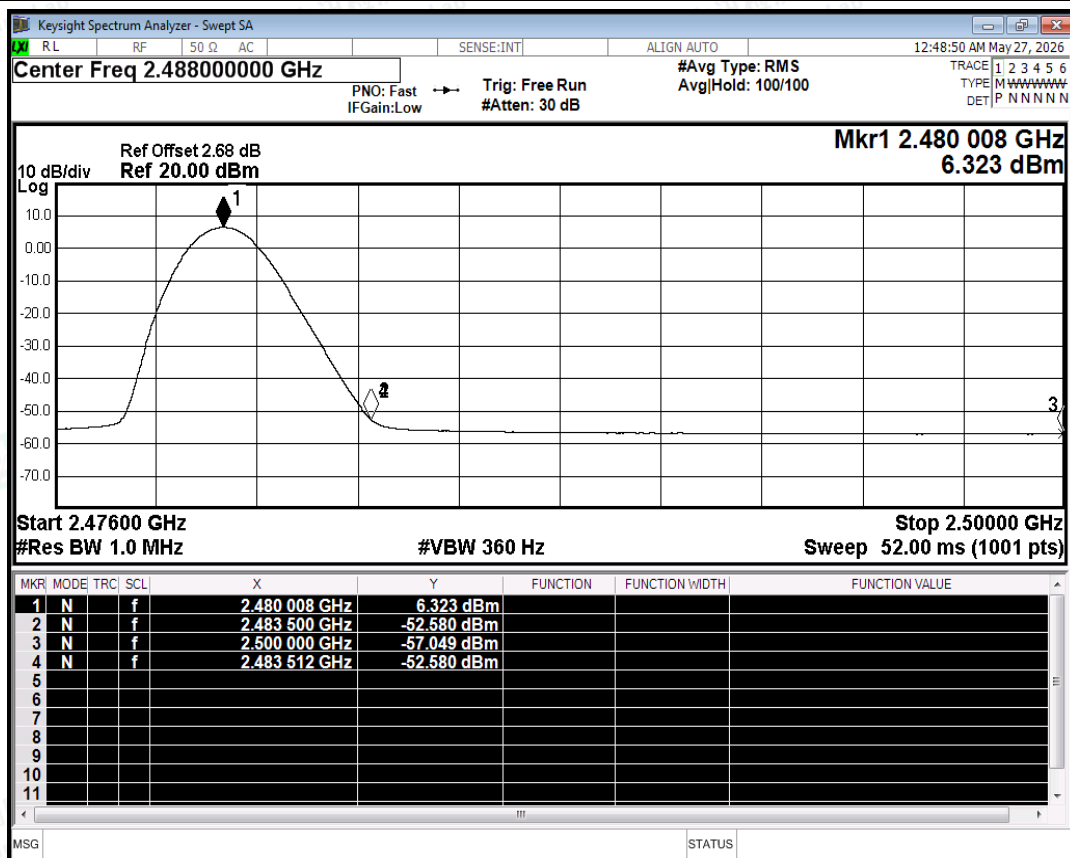
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Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak



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

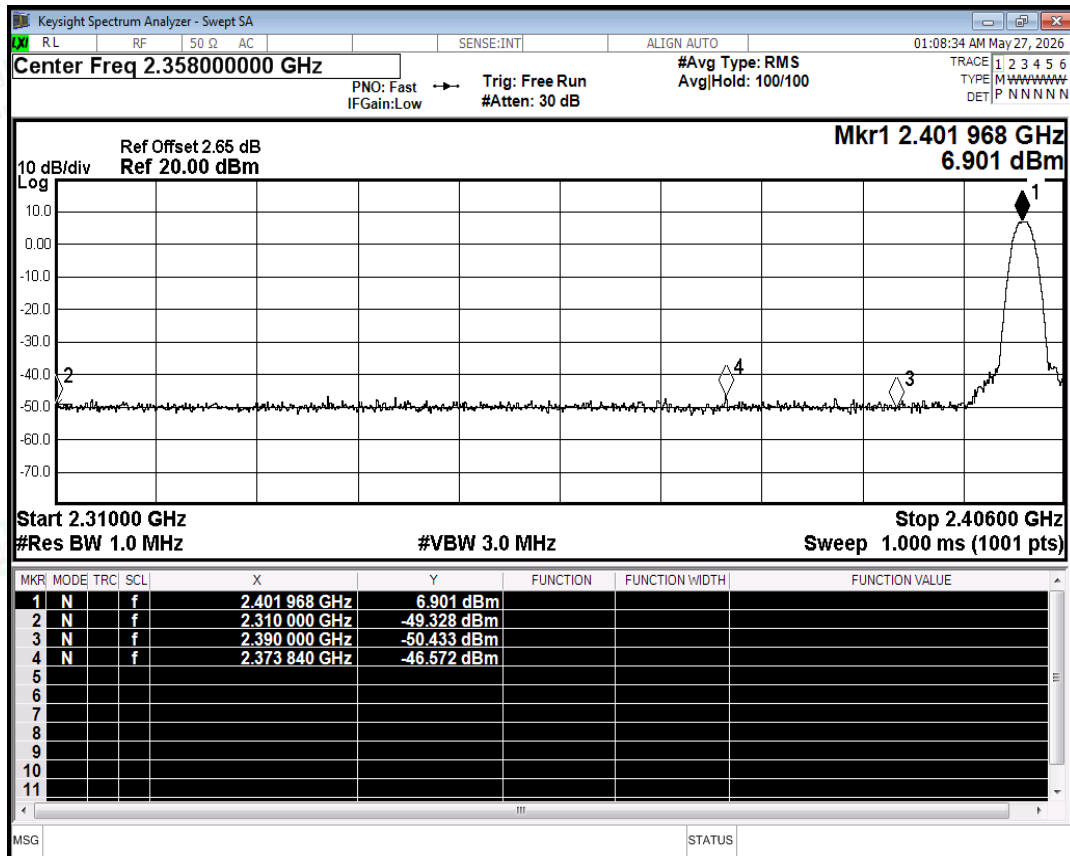


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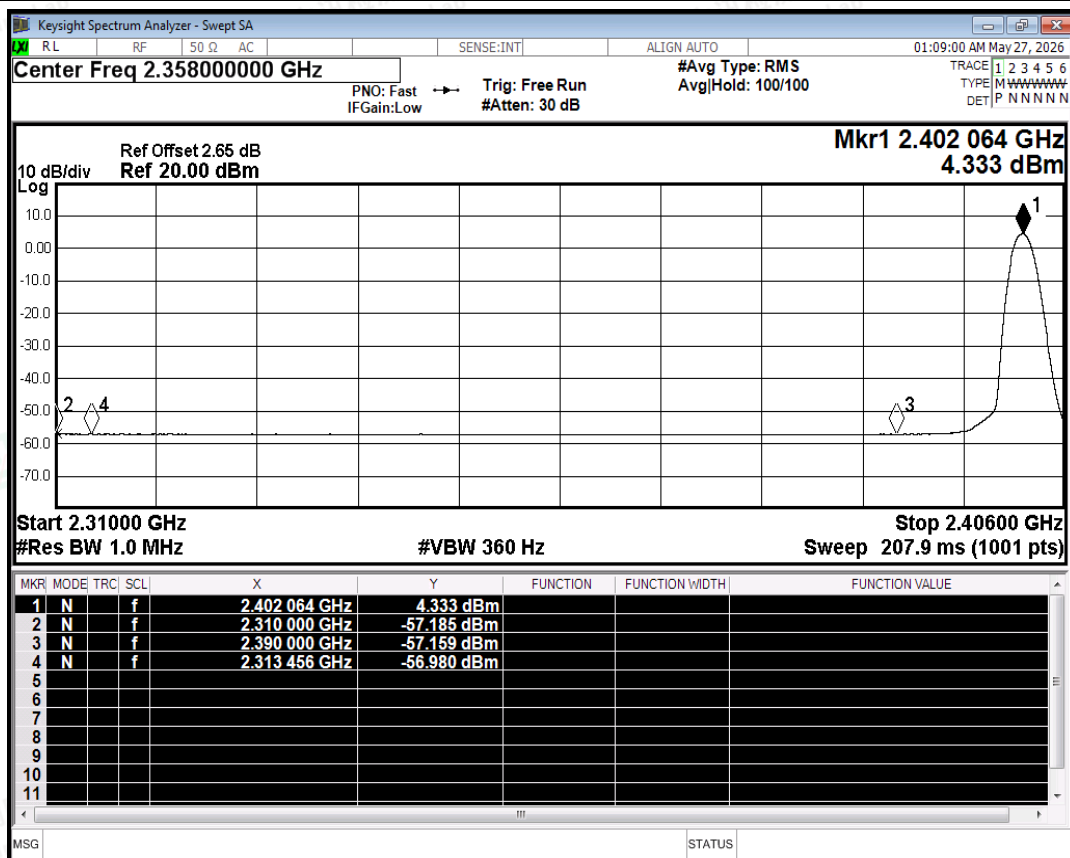
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Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak



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

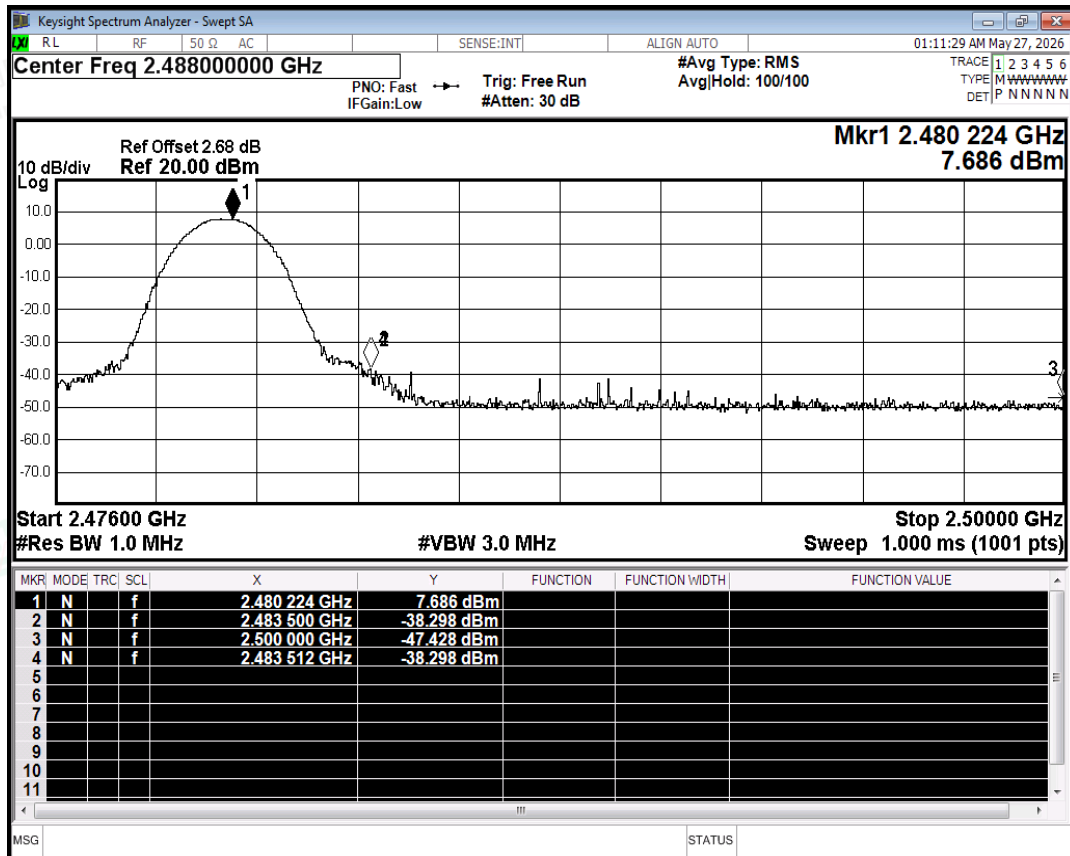


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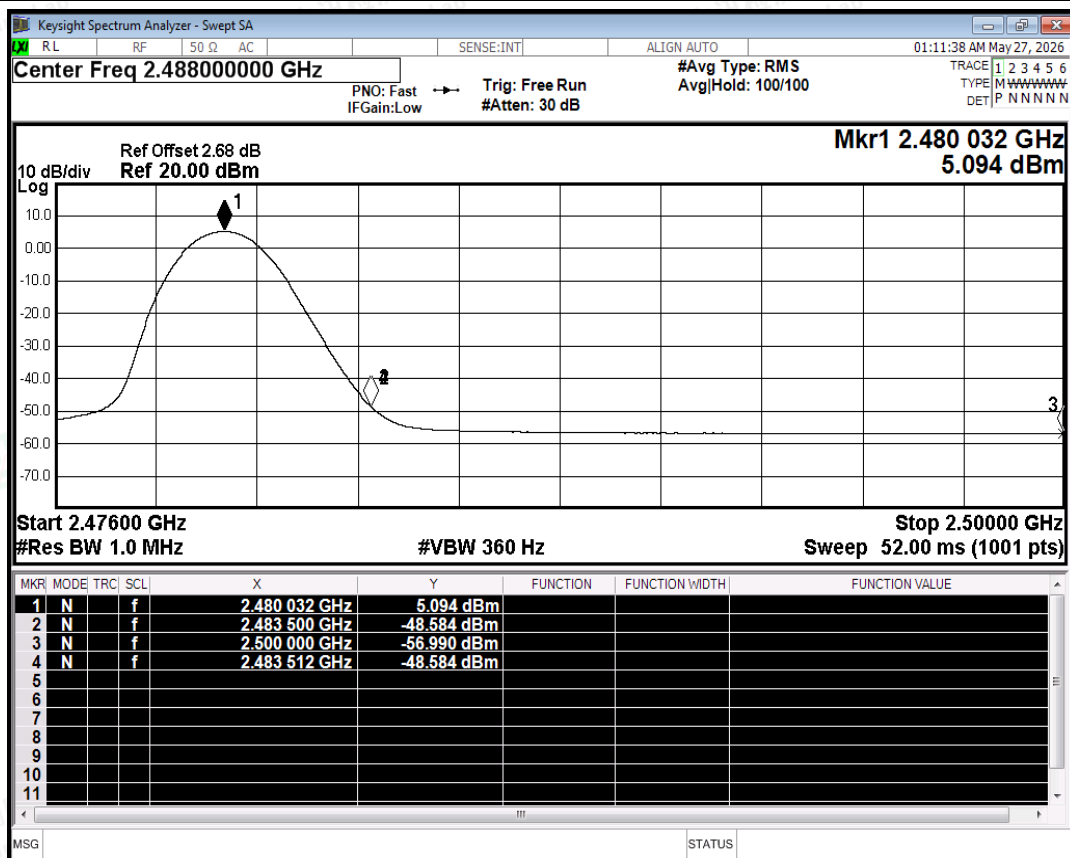
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

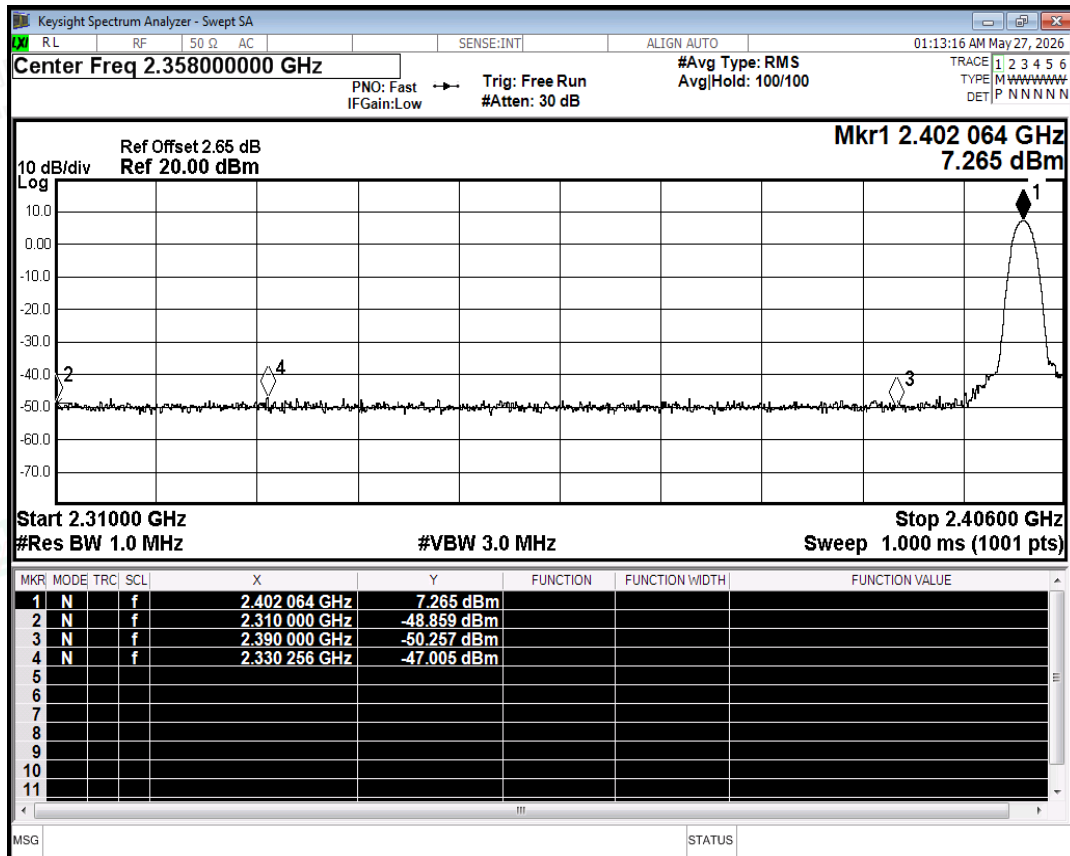


Shenzhen LCS Compliance Testing Laboratory Ltd.

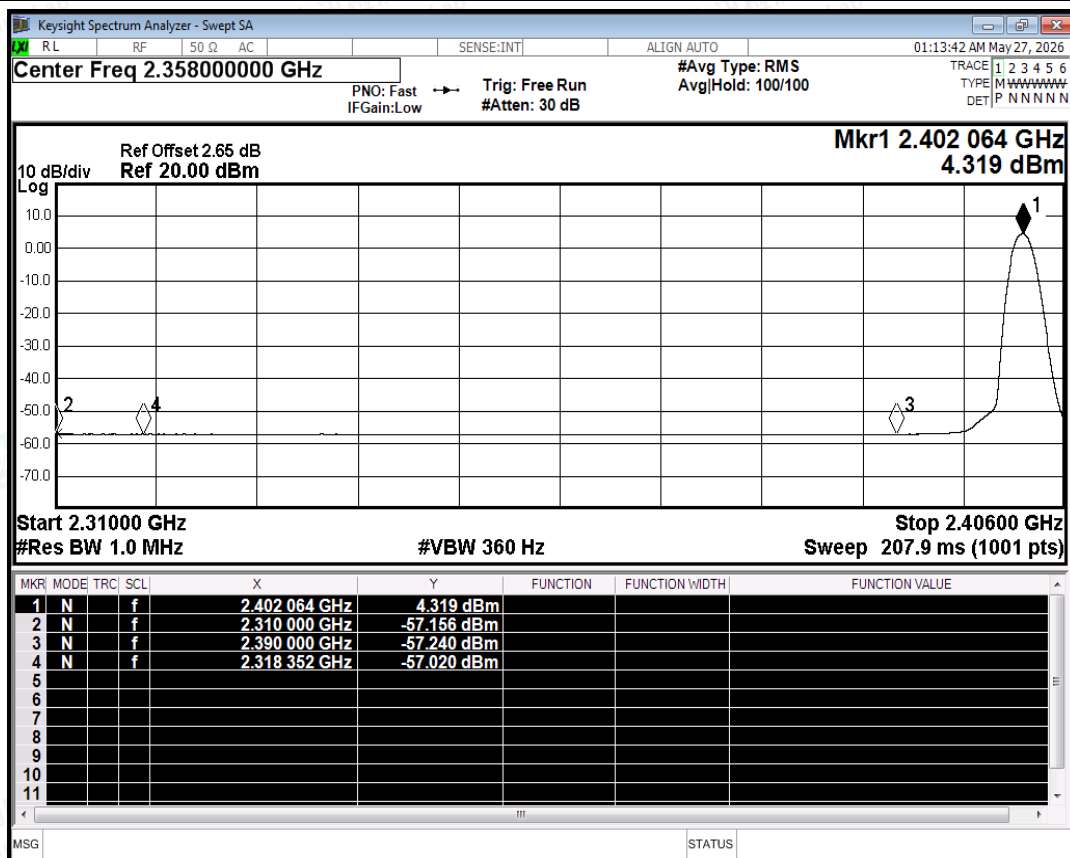
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average

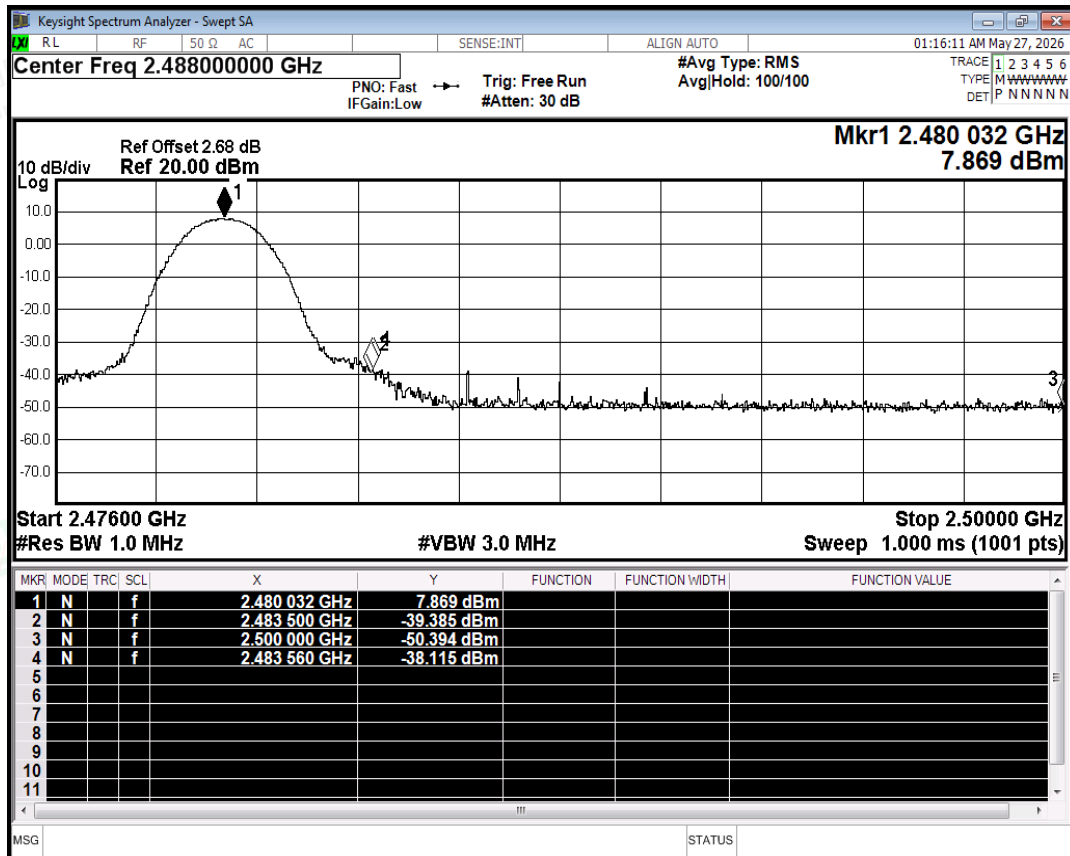


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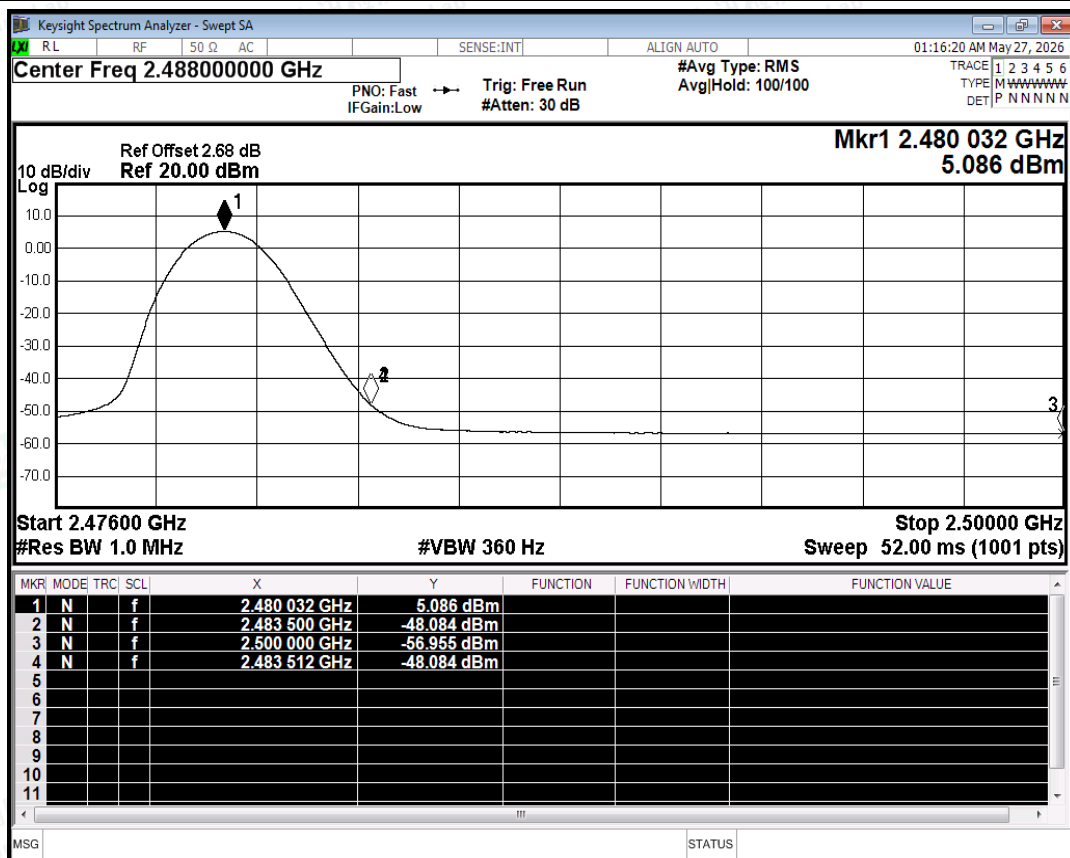
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