



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: POWER UNIT CONTROLLER

Test Model: Omnibase

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

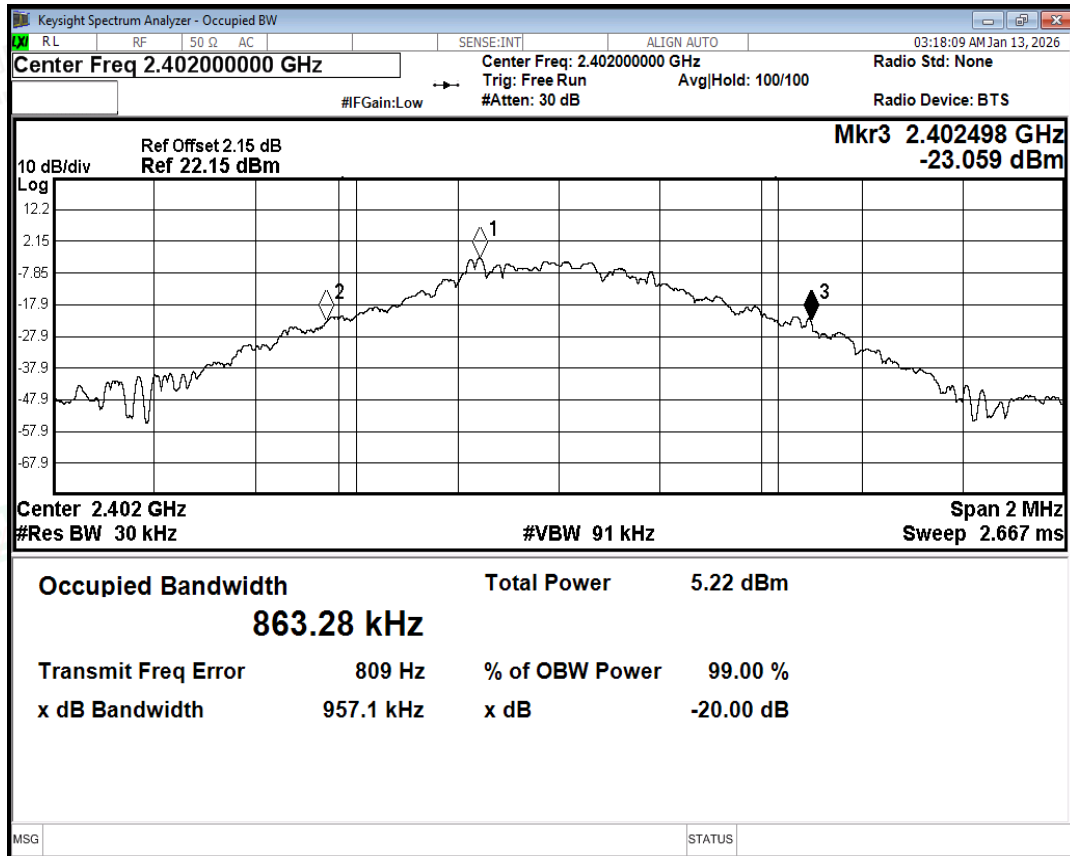




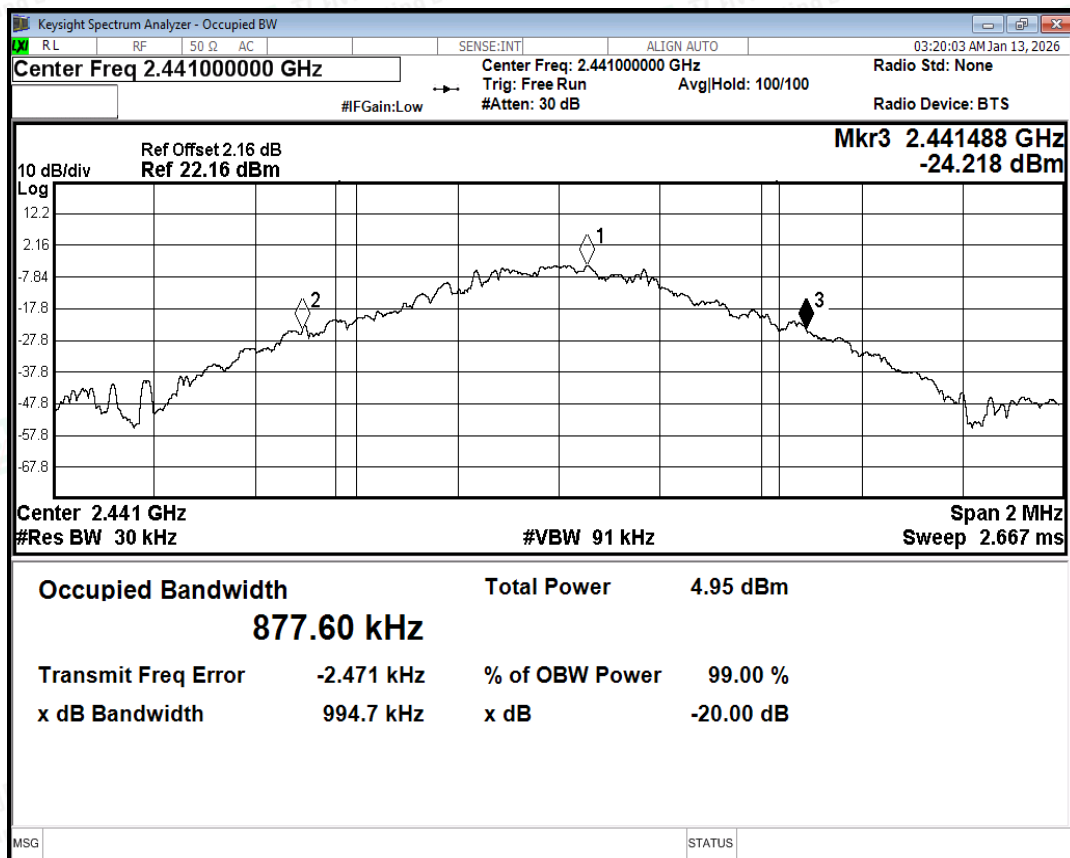
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9571	0	Pass
NVNT	1-DH5	2441	Ant1	0.9947	0	Pass
NVNT	1-DH5	2480	Ant1	0.955	0	Pass
NVNT	2-DH5	2402	Ant1	1.312	0	Pass
NVNT	2-DH5	2441	Ant1	1.287	0	Pass
NVNT	2-DH5	2480	Ant1	1.285	0	Pass
NVNT	3-DH5	2402	Ant1	1.298	0	Pass
NVNT	3-DH5	2441	Ant1	1.292	0	Pass
NVNT	3-DH5	2480	Ant1	1.296	0	Pass





-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

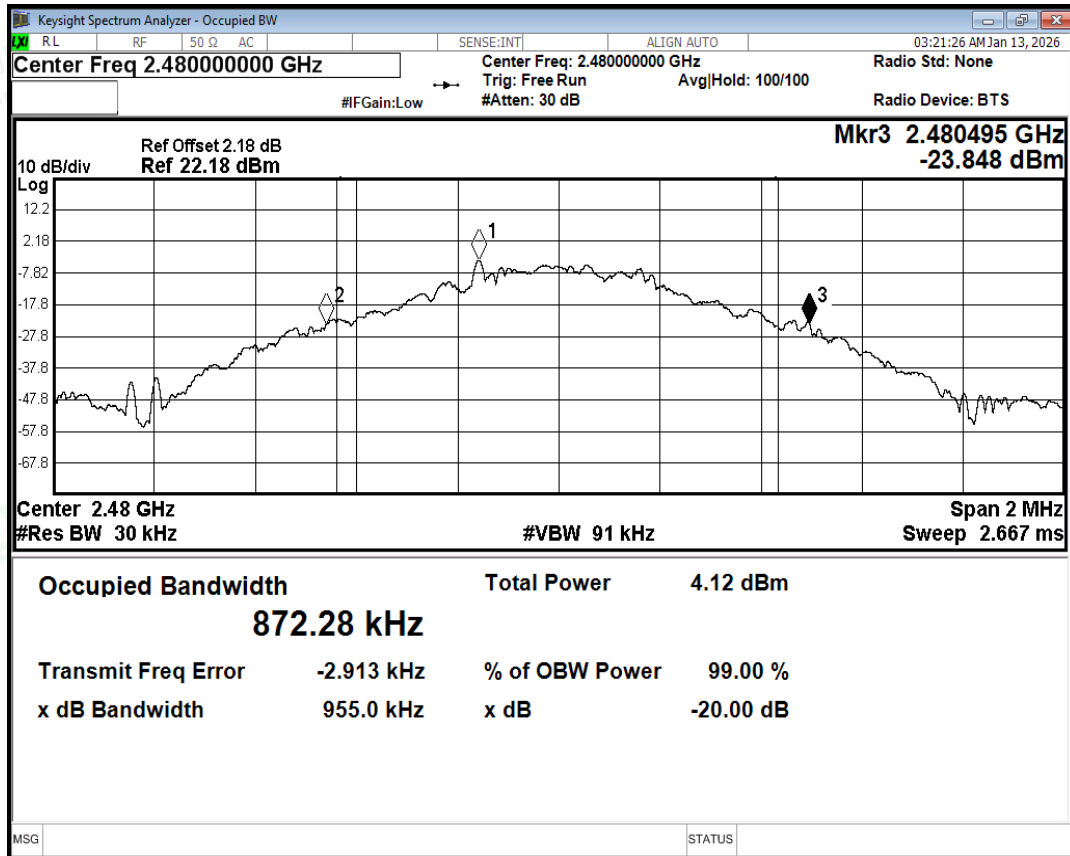


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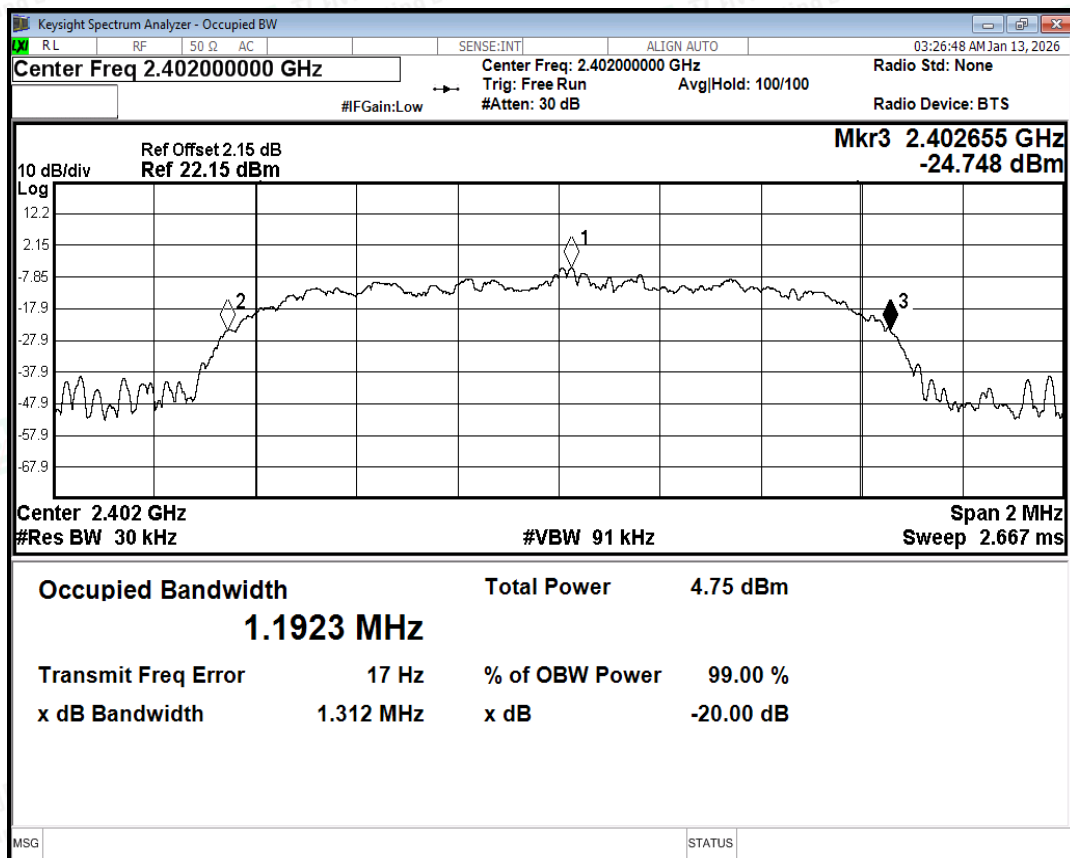
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

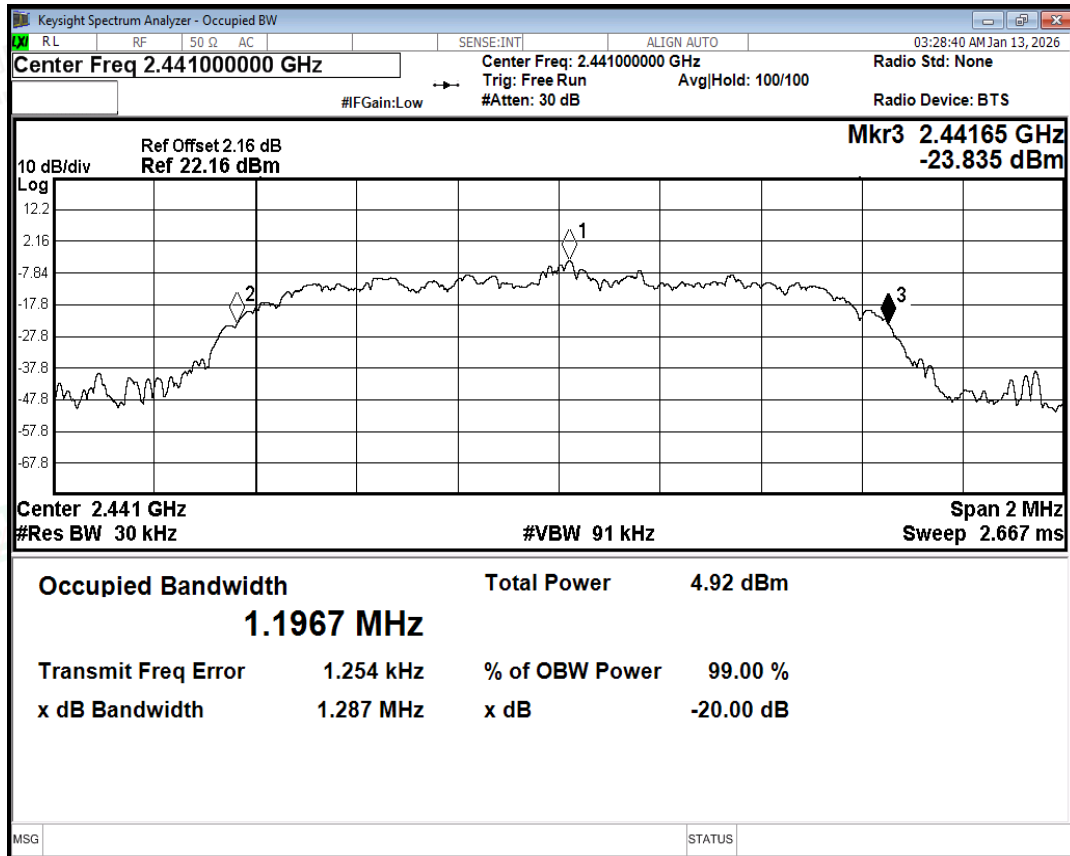


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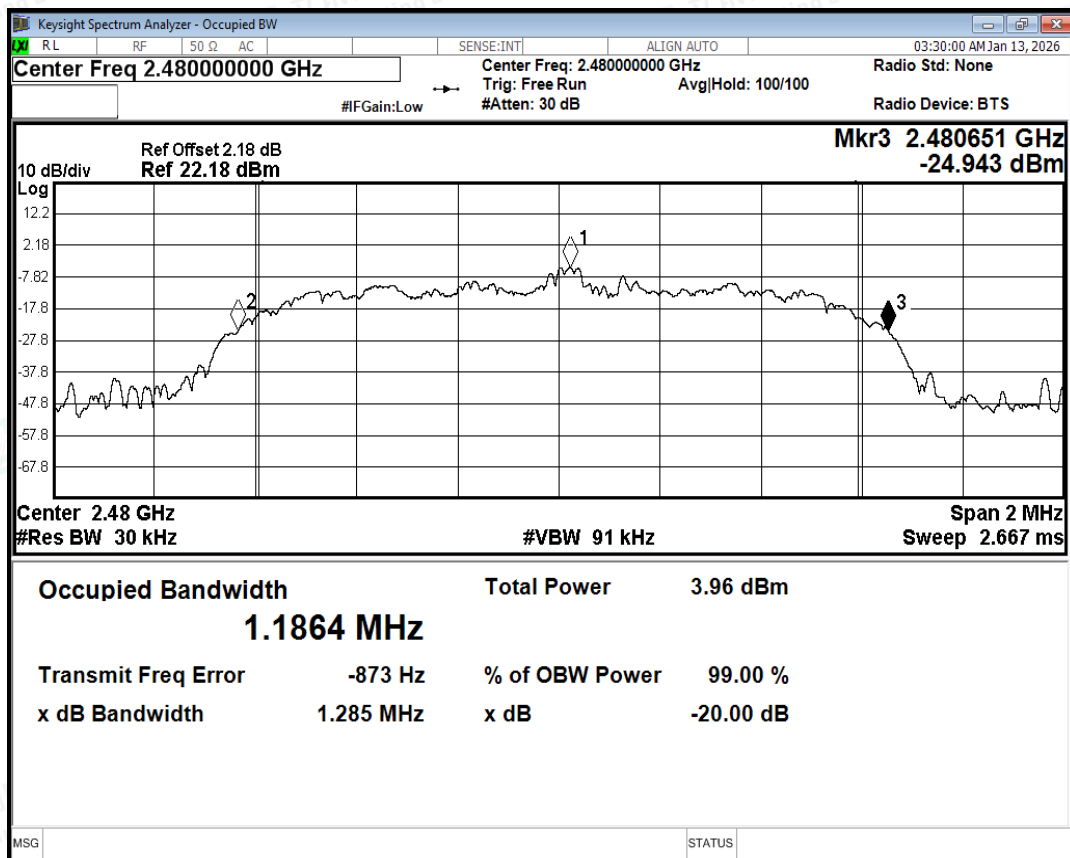
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

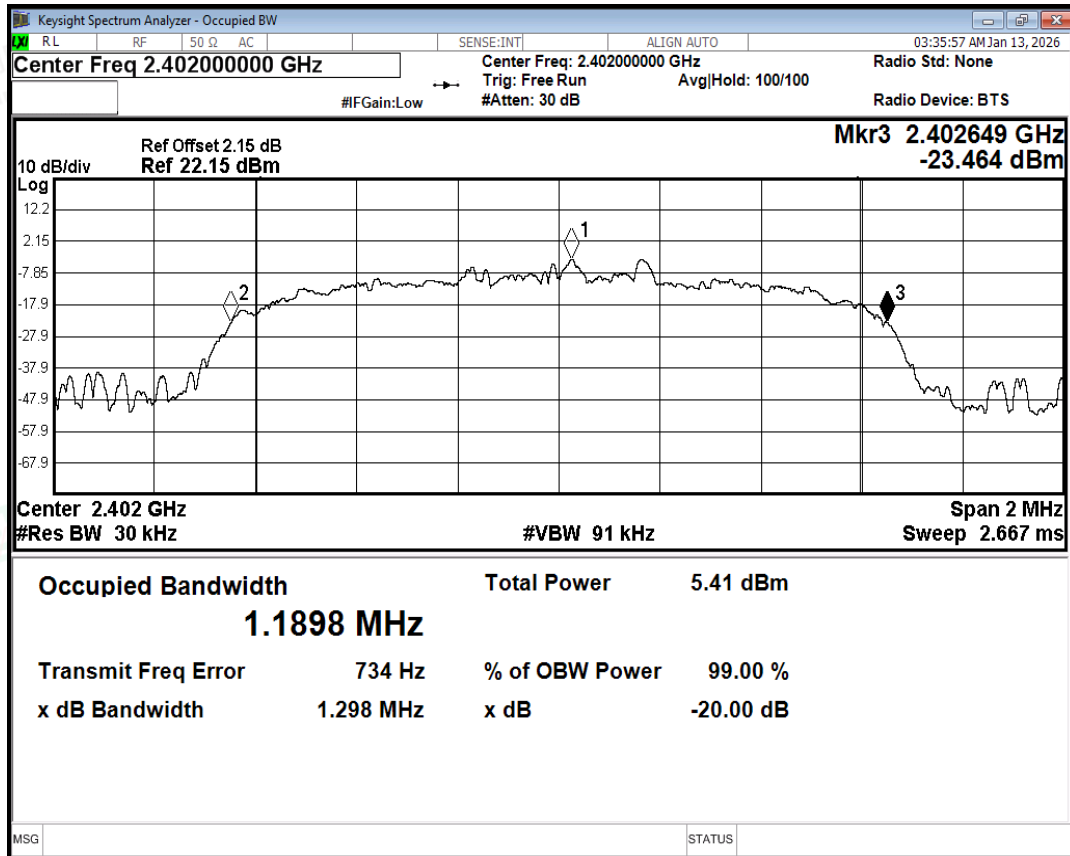


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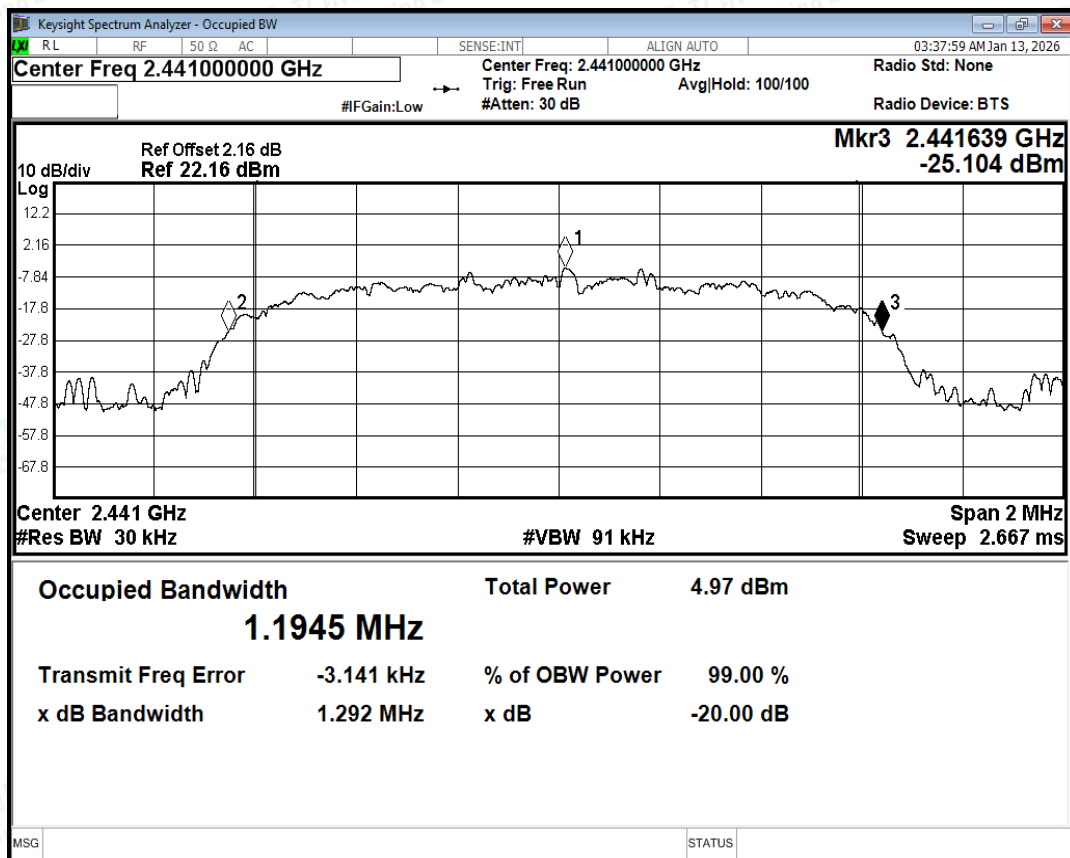
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

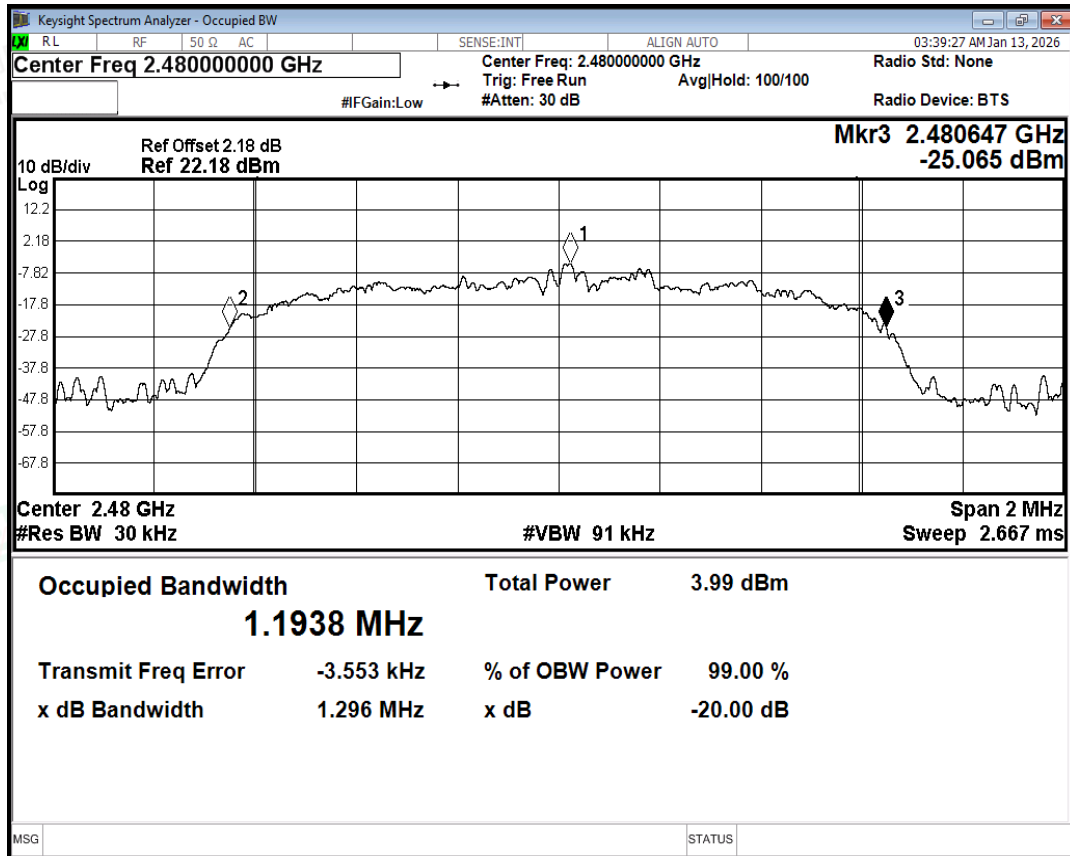


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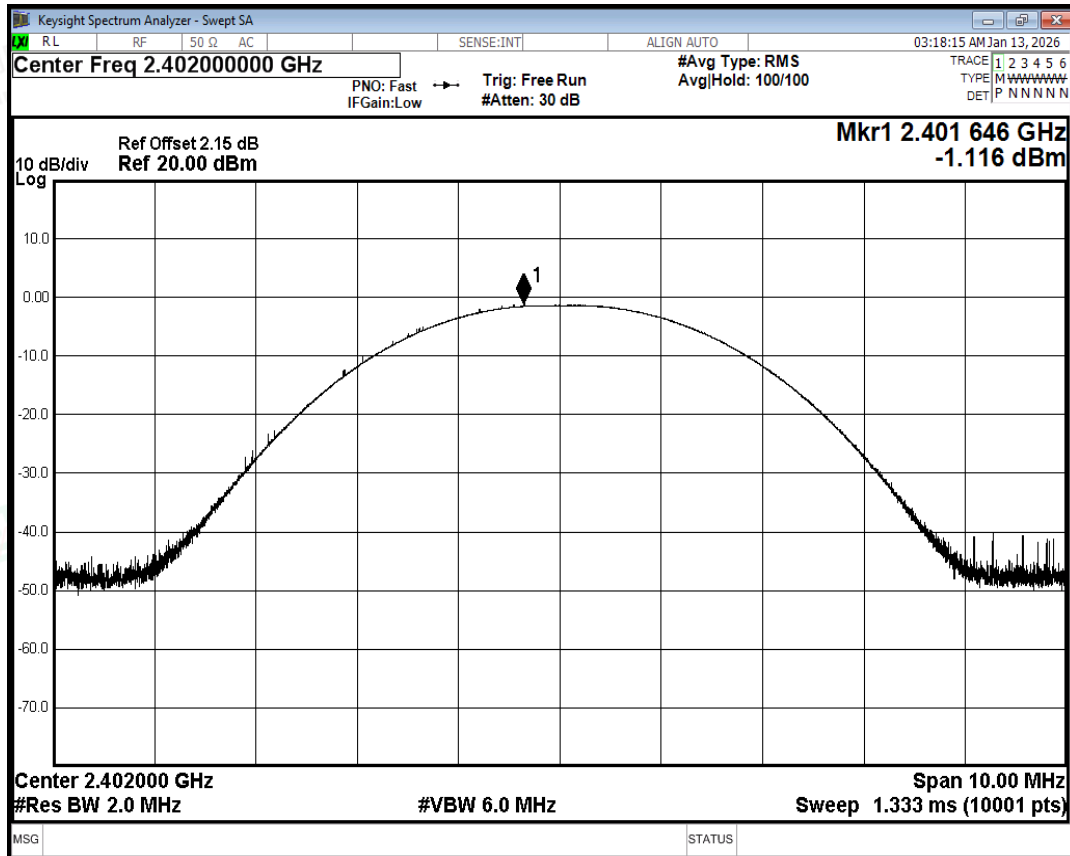
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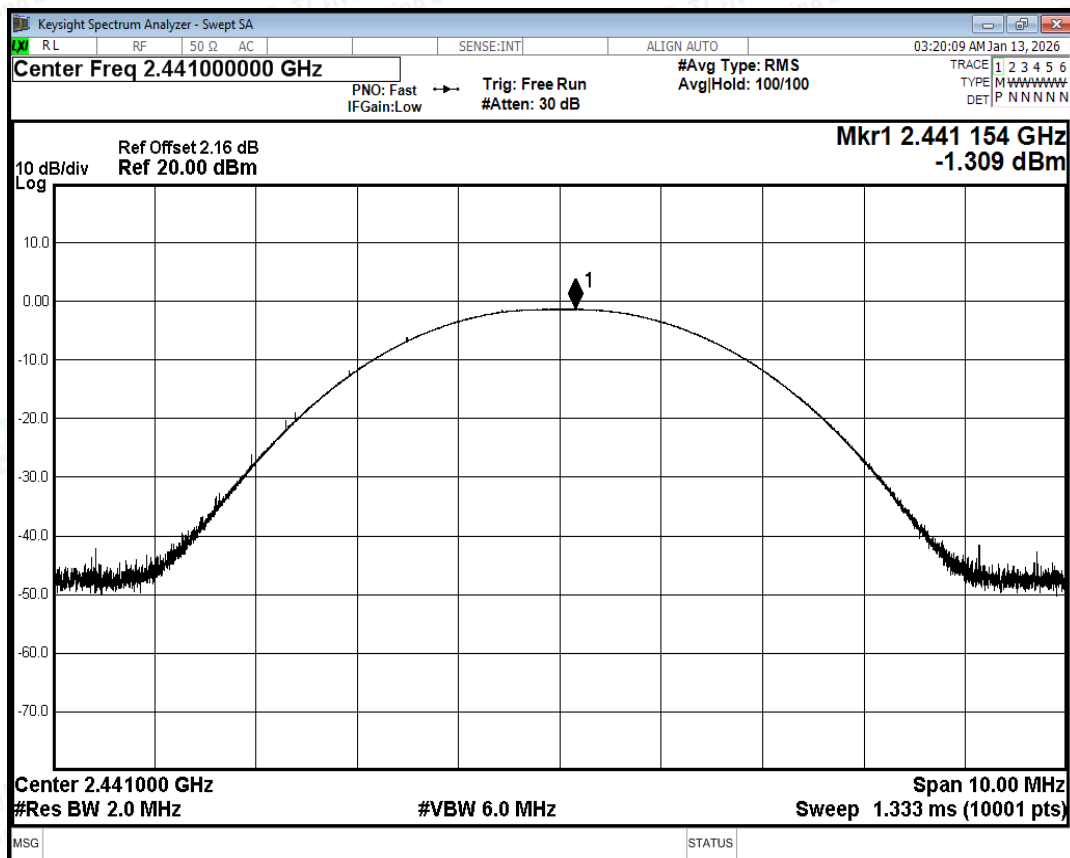
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.12	0.00077	30	Pass
NVNT	1-DH5	2441	Ant1	-1.31	0.00074	30	Pass
NVNT	1-DH5	2480	Ant1	-2.06	0.00062	30	Pass
NVNT	2-DH5	2402	Ant1	0.67	0.00117	30	Pass
NVNT	2-DH5	2441	Ant1	0.95	0.00124	30	Pass
NVNT	2-DH5	2480	Ant1	-0.24	0.00095	30	Pass
NVNT	3-DH5	2402	Ant1	1.17	0.00131	30	Pass
NVNT	3-DH5	2441	Ant1	1.19	0.00132	30	Pass
NVNT	3-DH5	2480	Ant1	0.1	0.00102	30	Pass



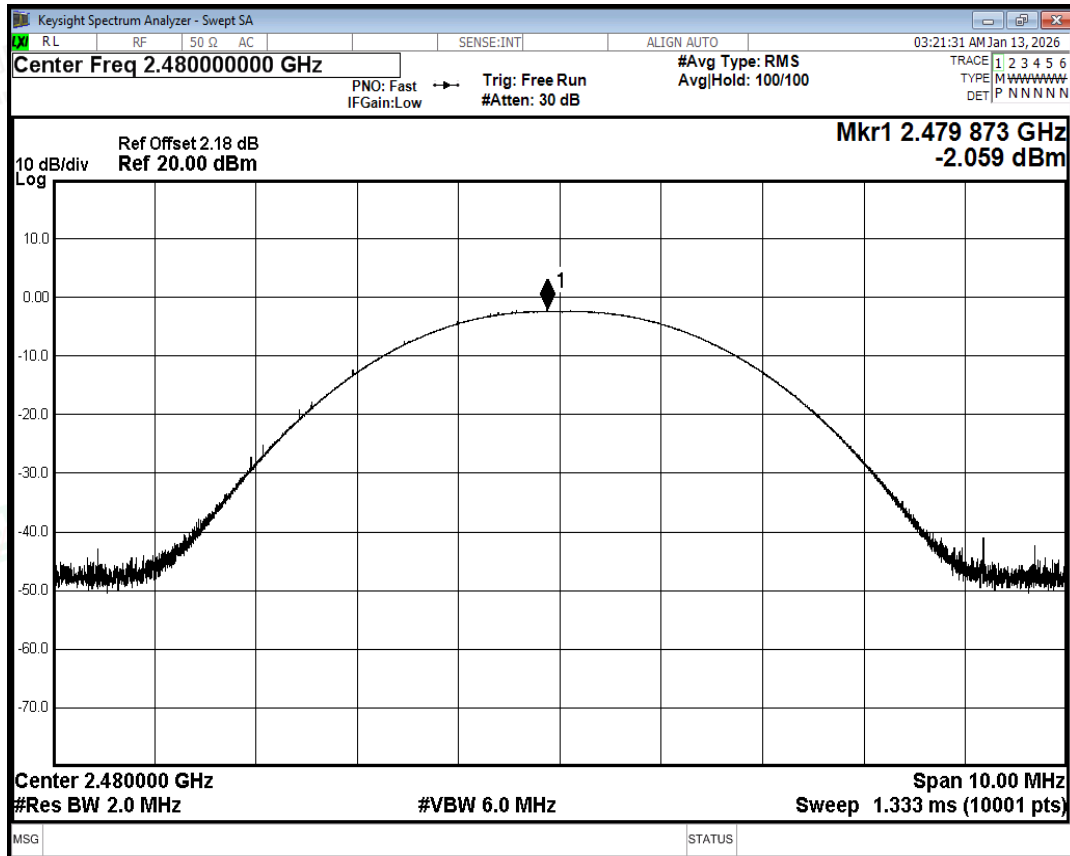


Peak Power NVNT 1-DH5 2402MHz Ant1

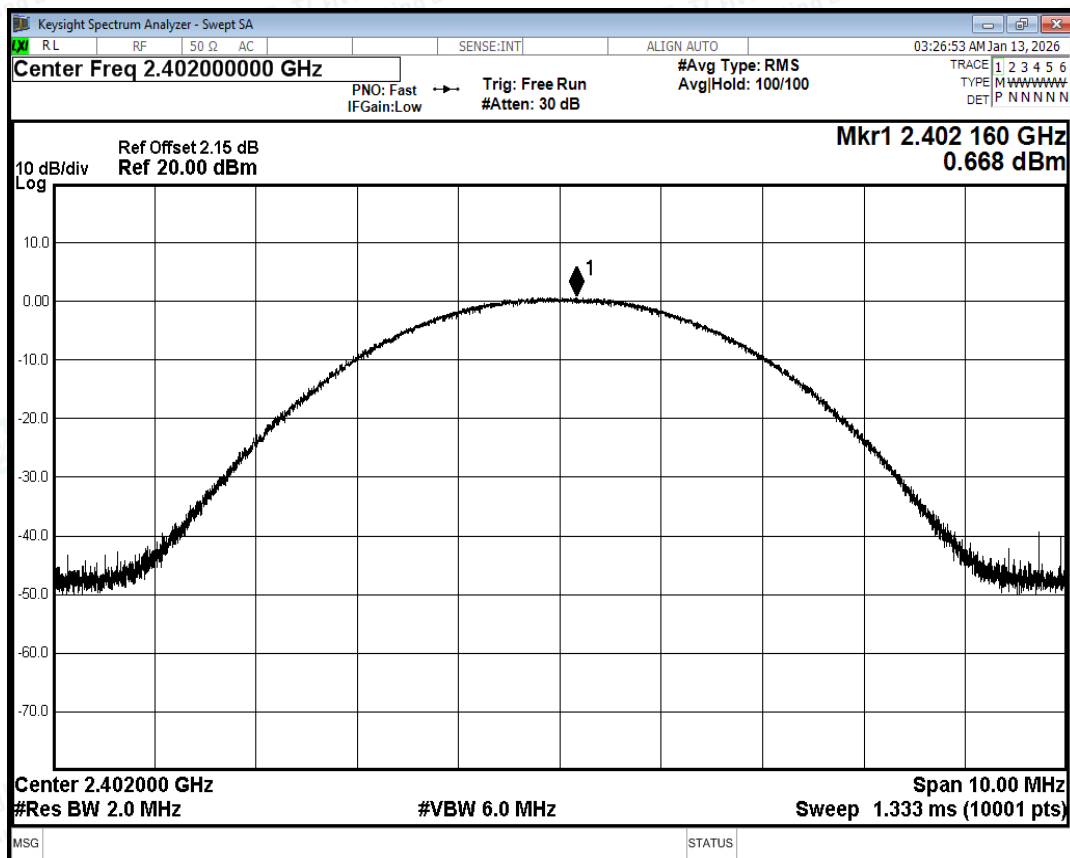


Peak Power NVNT 1-DH5 2441MHz Ant1





Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1

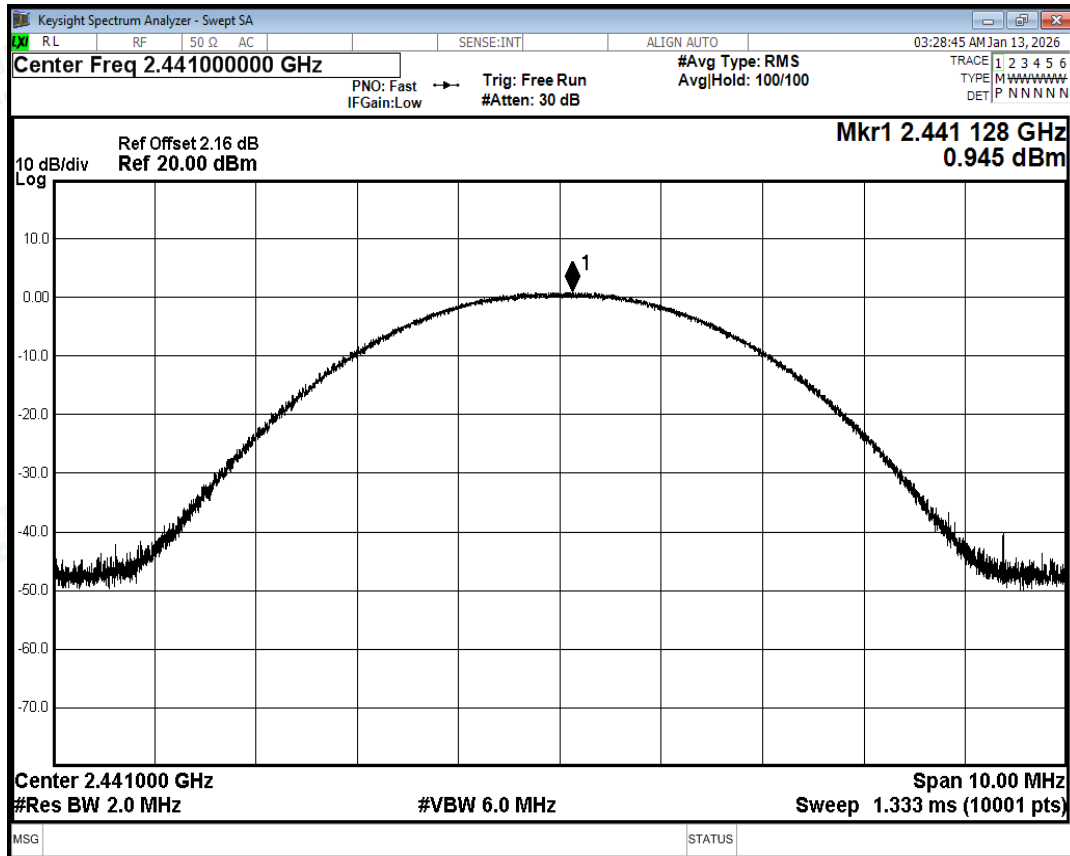


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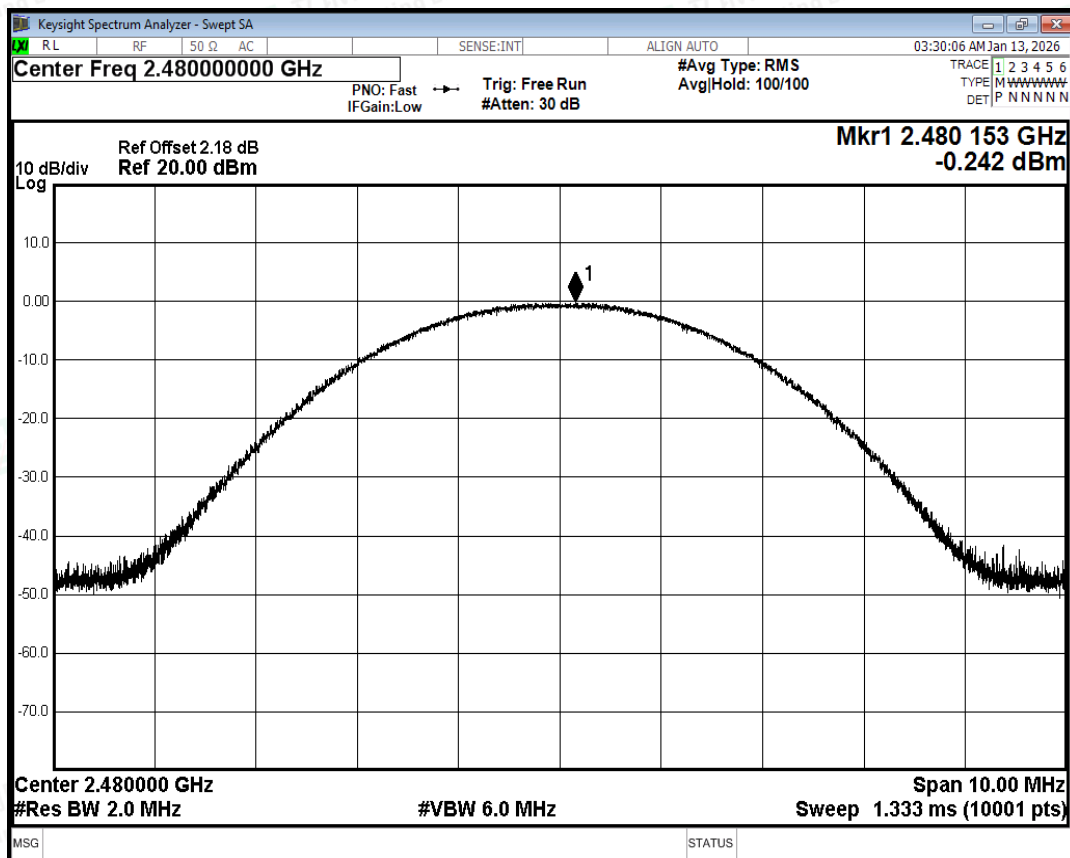
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Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1

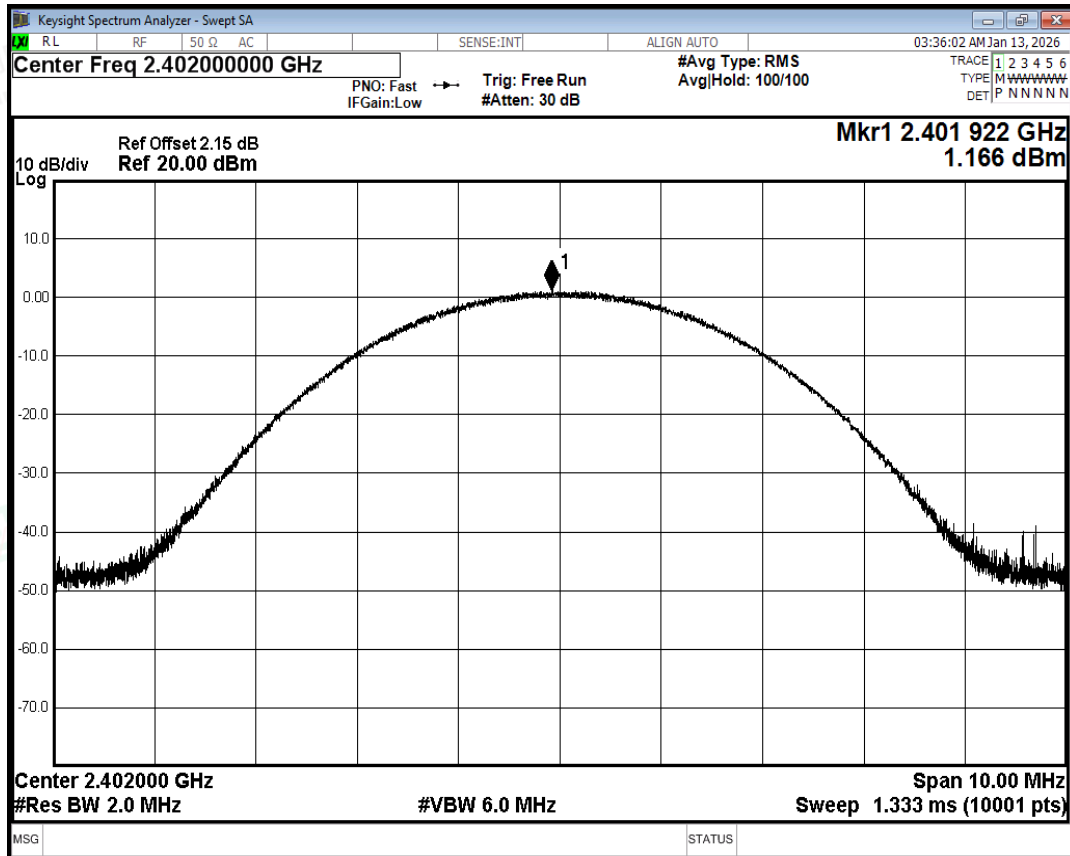


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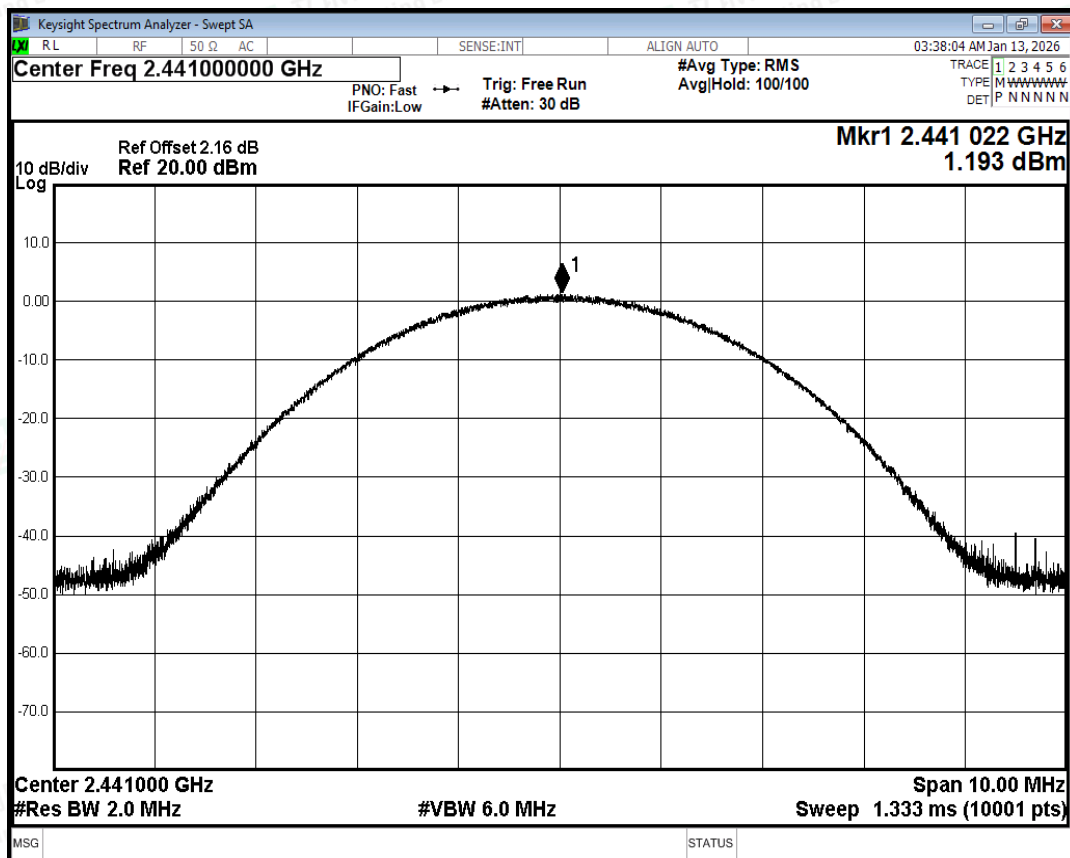
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Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

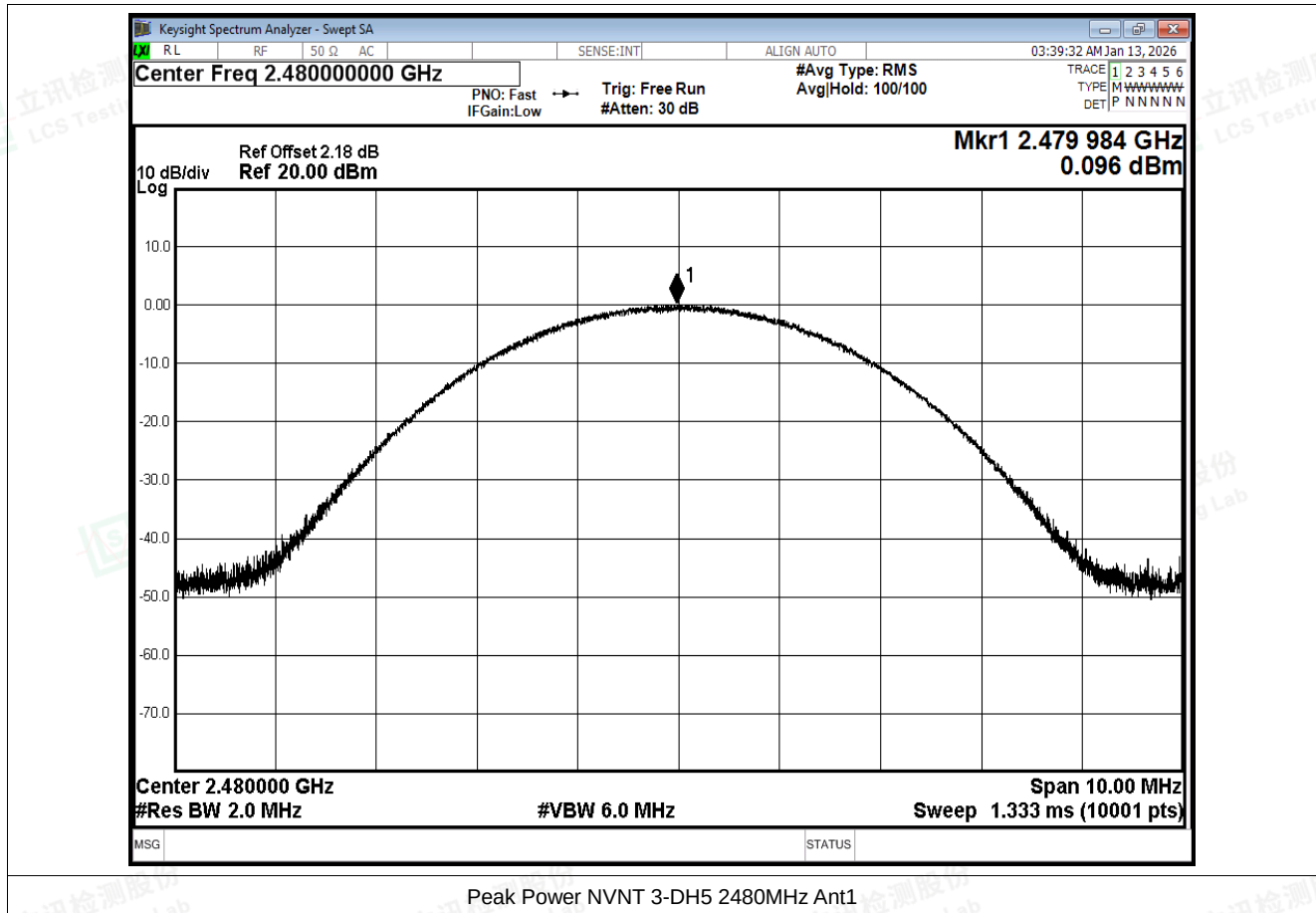


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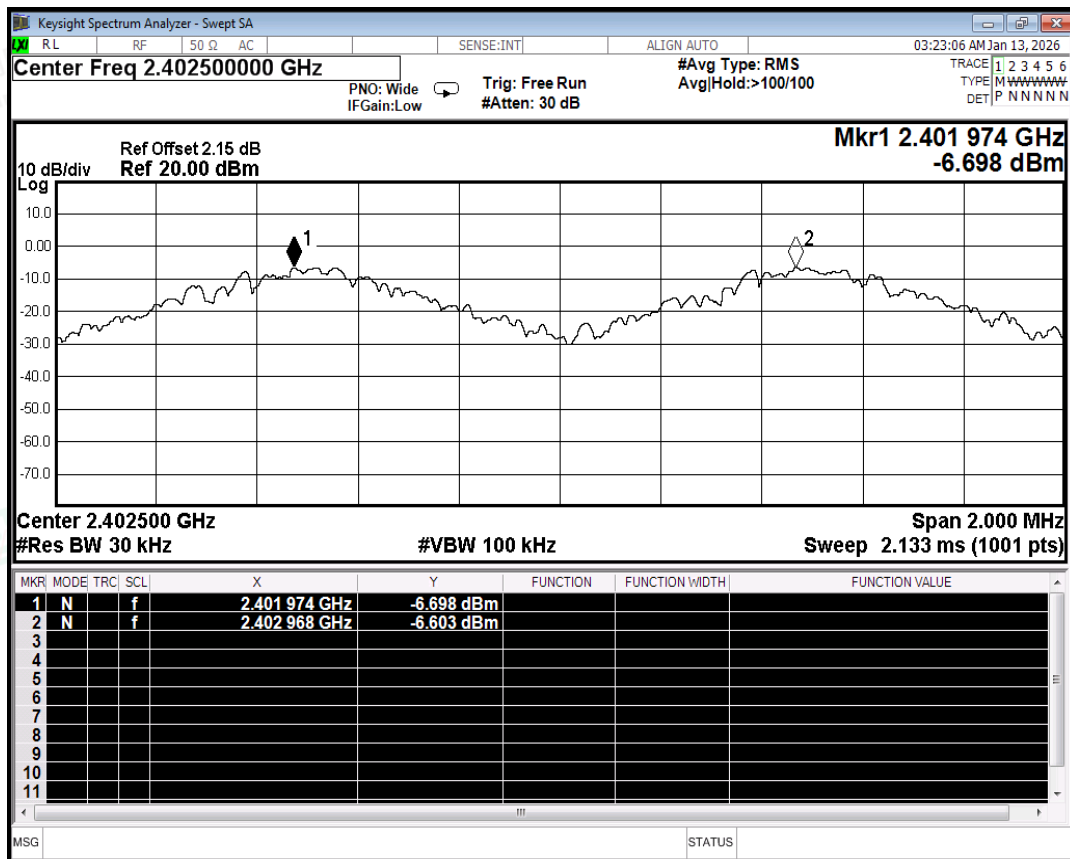




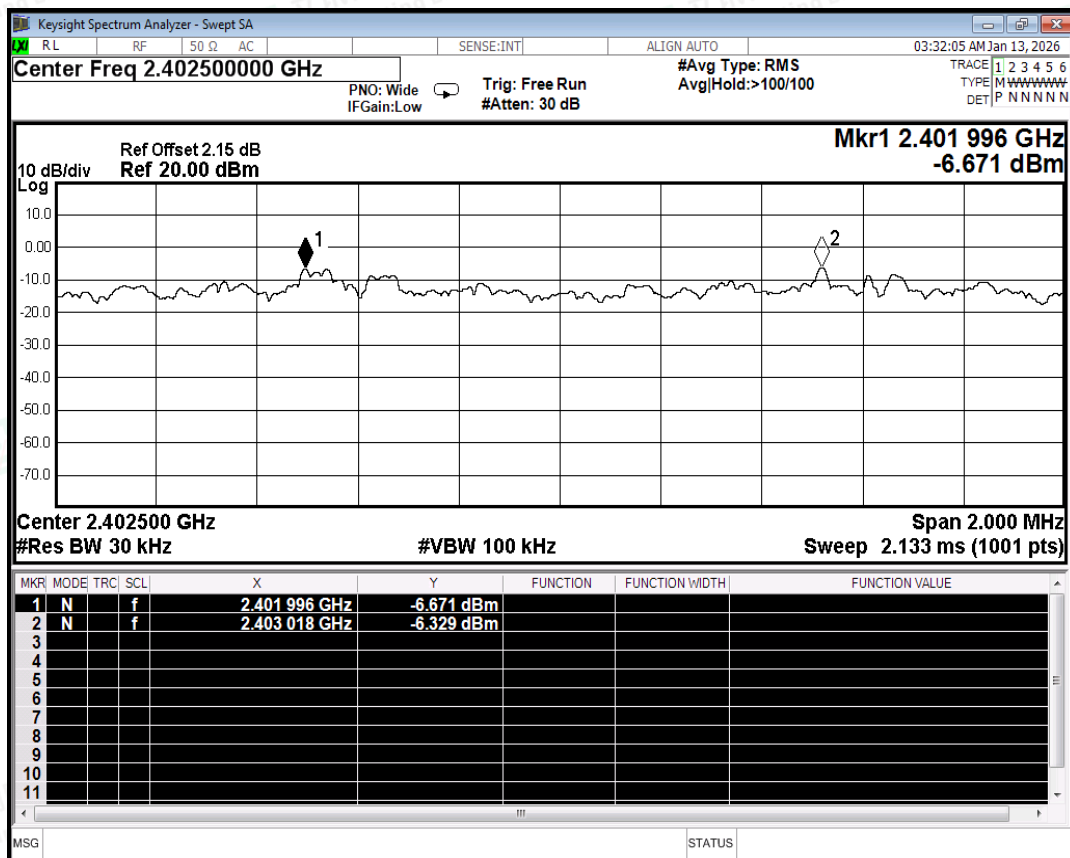
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.974	2402.968	0.994	0.663	Pass
NVNT	2-DH5	Ant1	2401.996	2403.018	1.022	0.875	Pass
NVNT	3-DH5	Ant1	2402.024	2403.148	1.124	0.865	Pass





CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

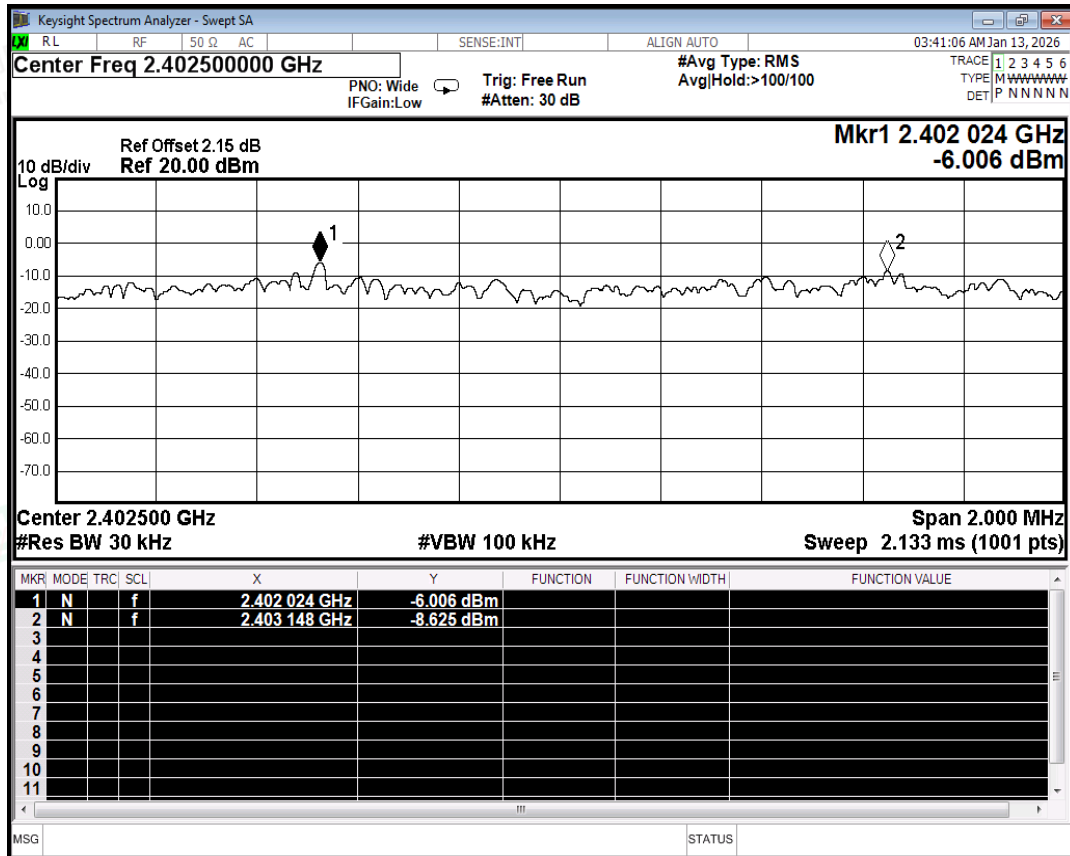


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CFS NVNT 3-DH5 2402MHz Ant1



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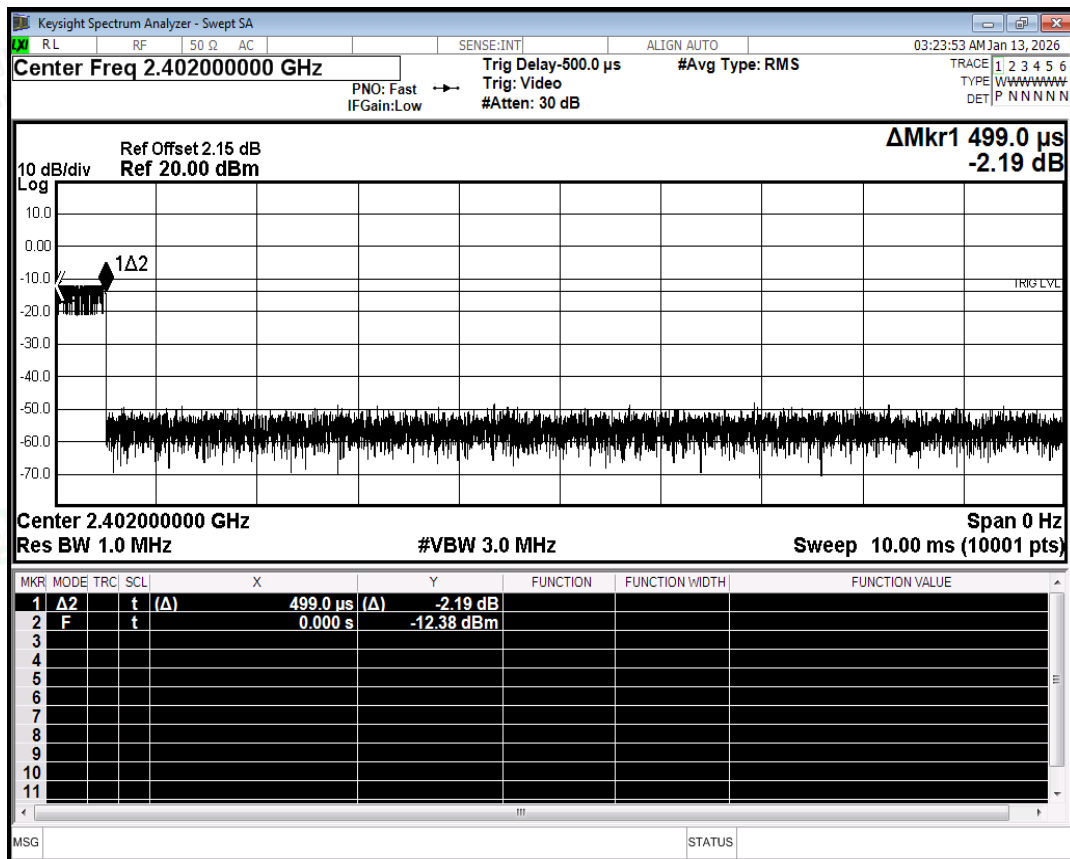
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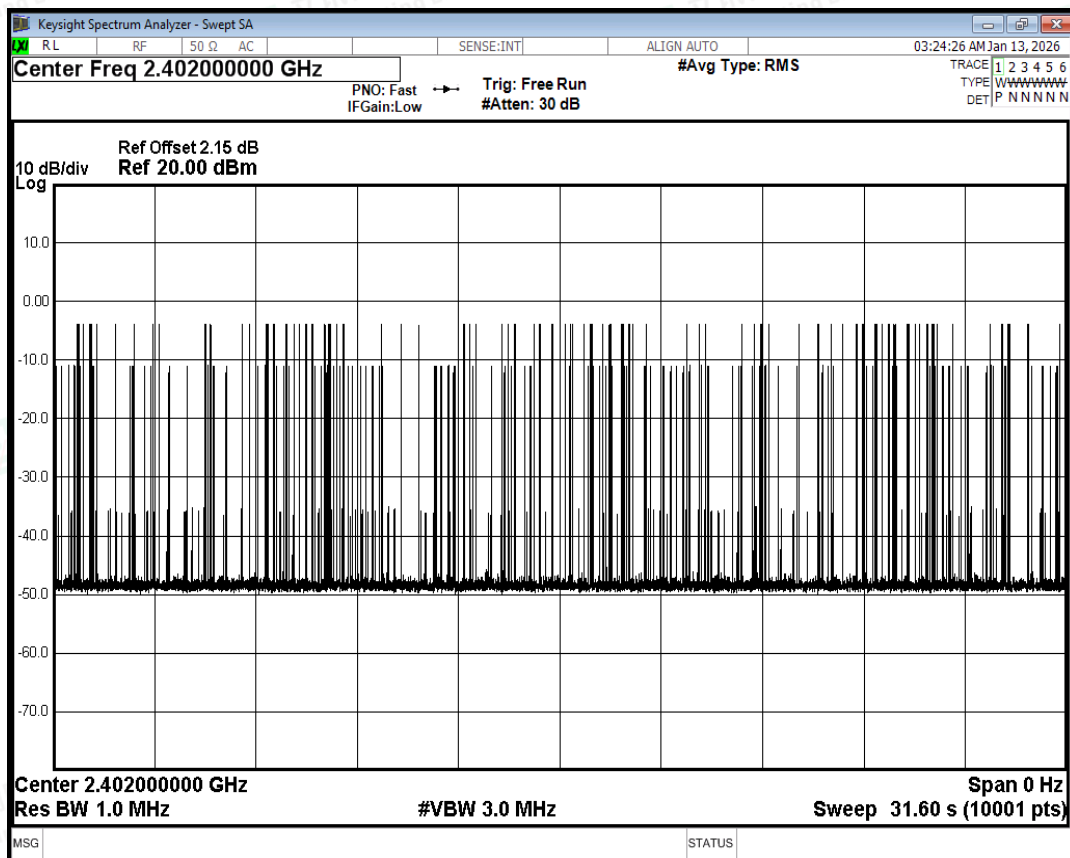
A.4 Dwell Time

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	0.499	50.399	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	336.052	116	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.896	318.56	110	31600	400	Pass





Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

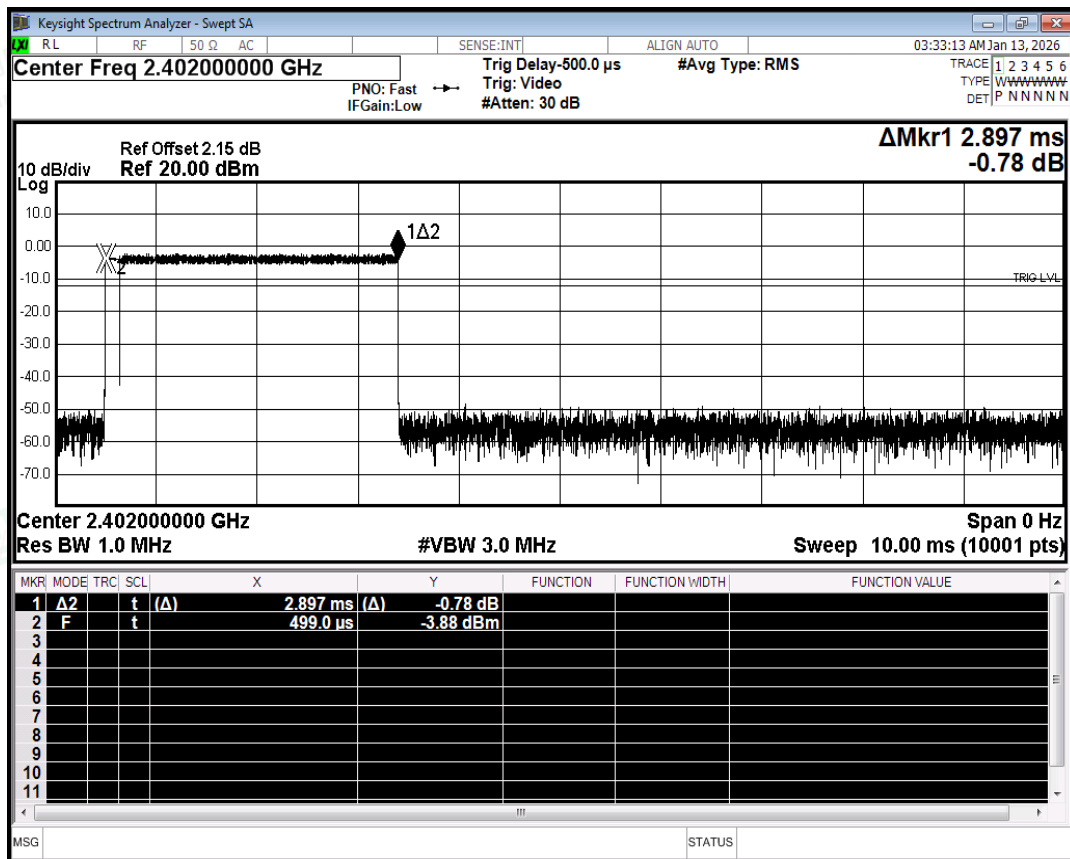


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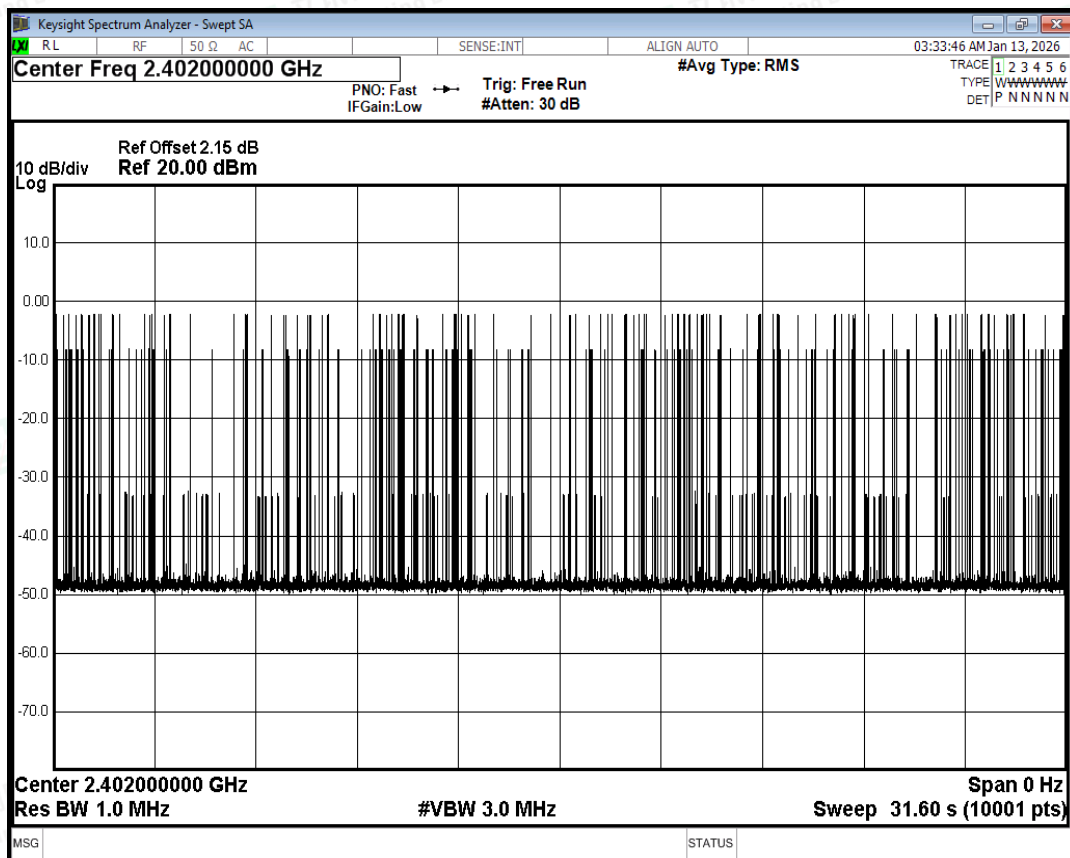
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

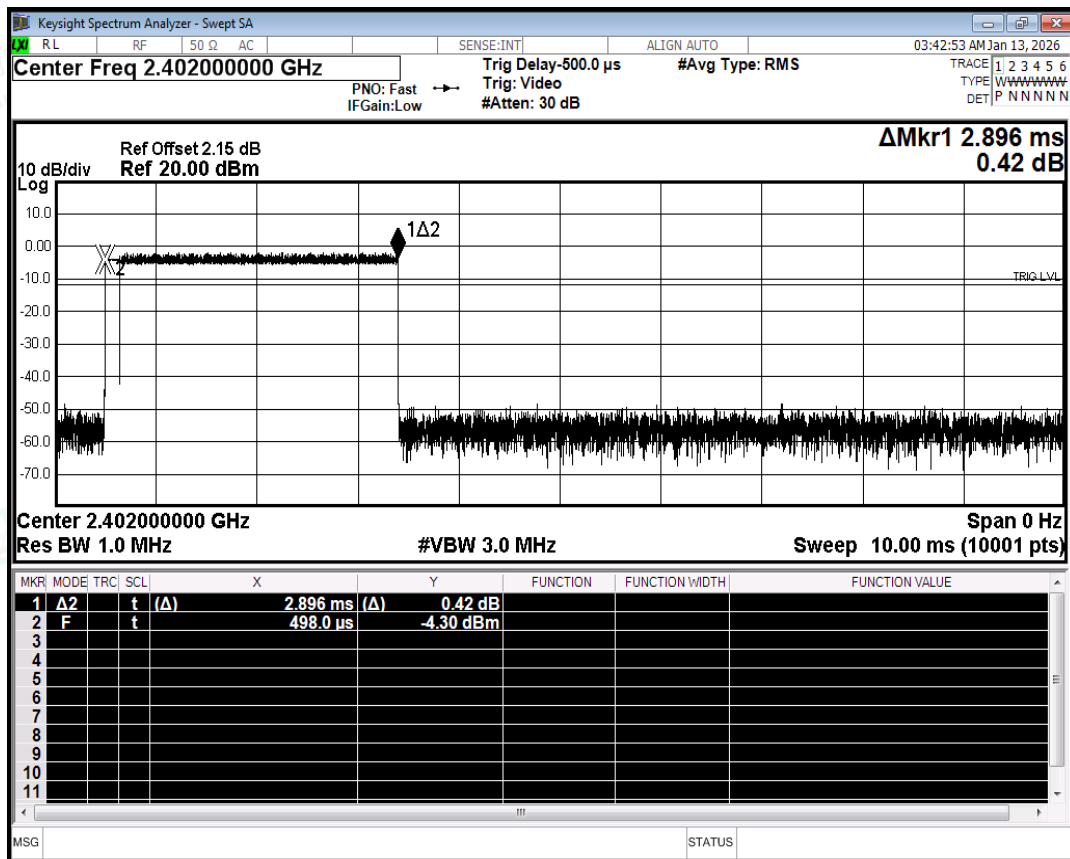


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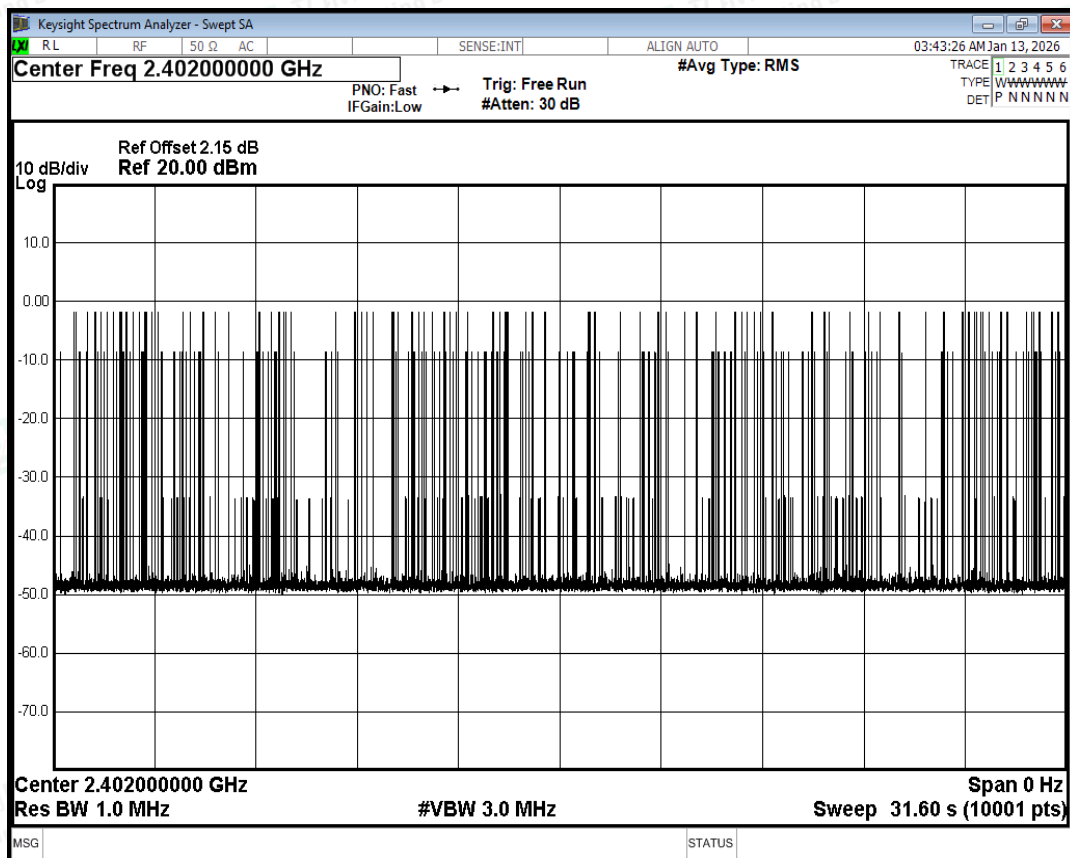
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

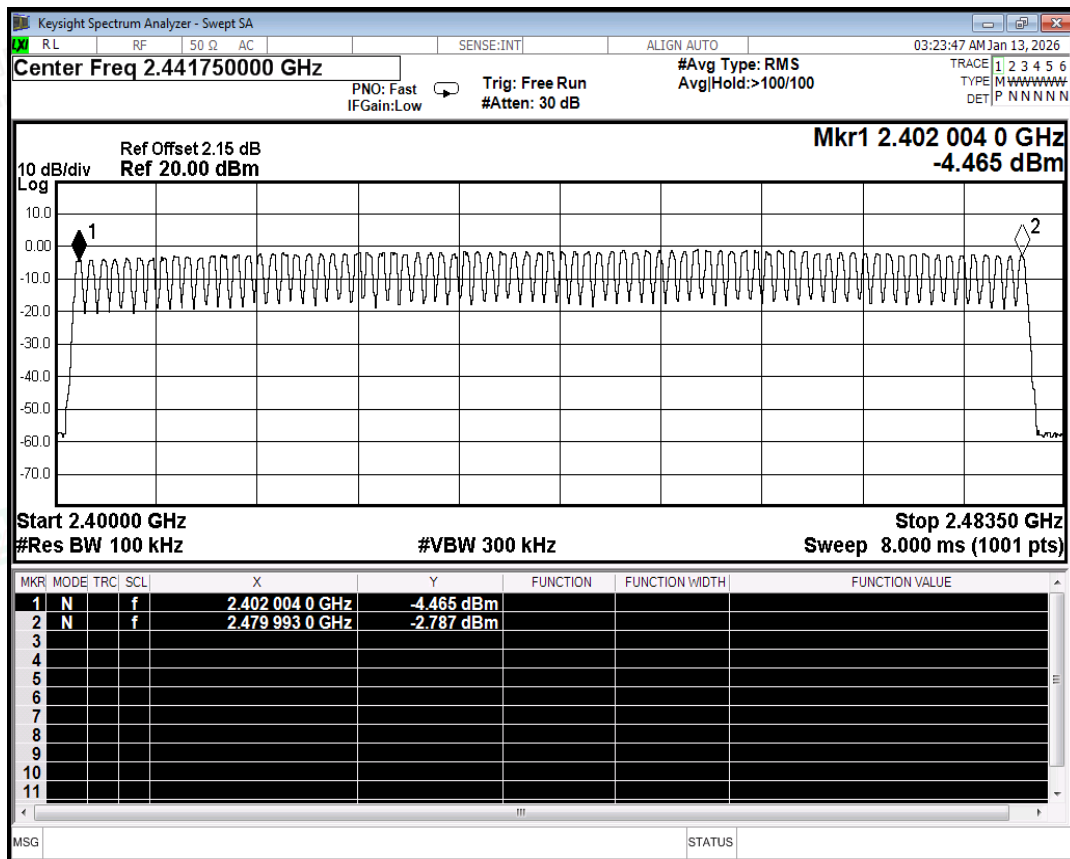




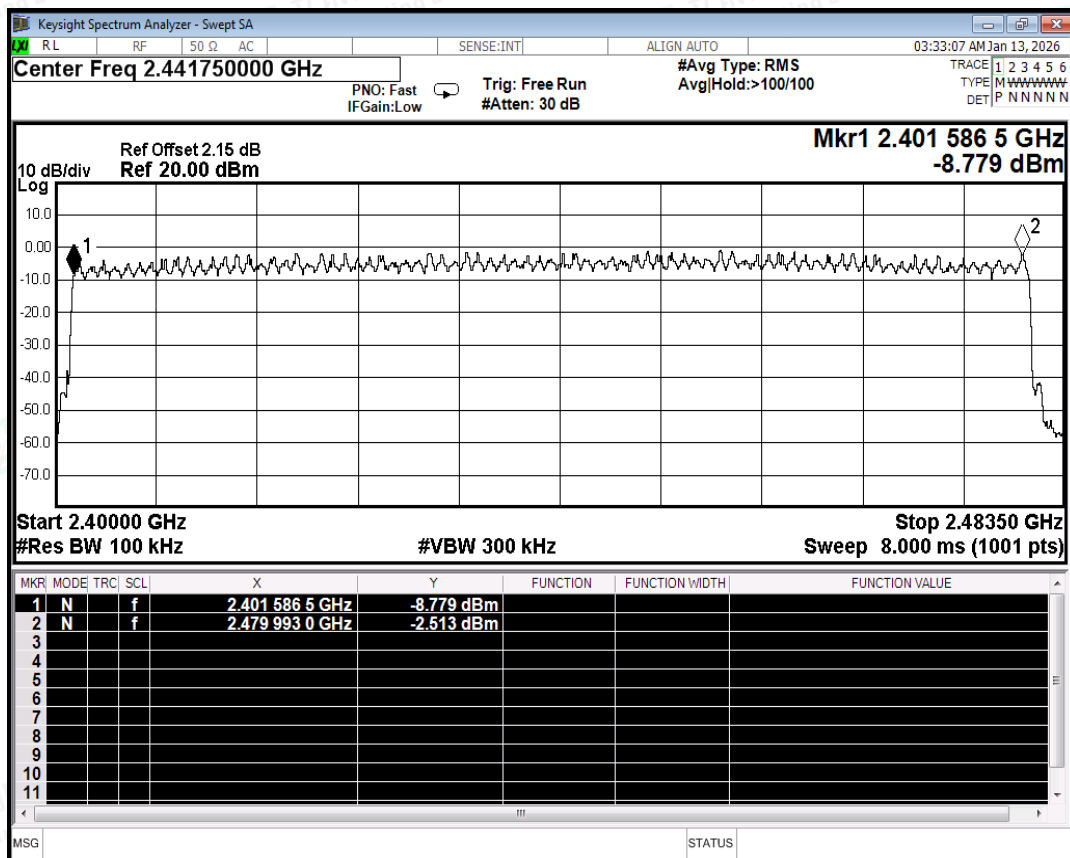
A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass





Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

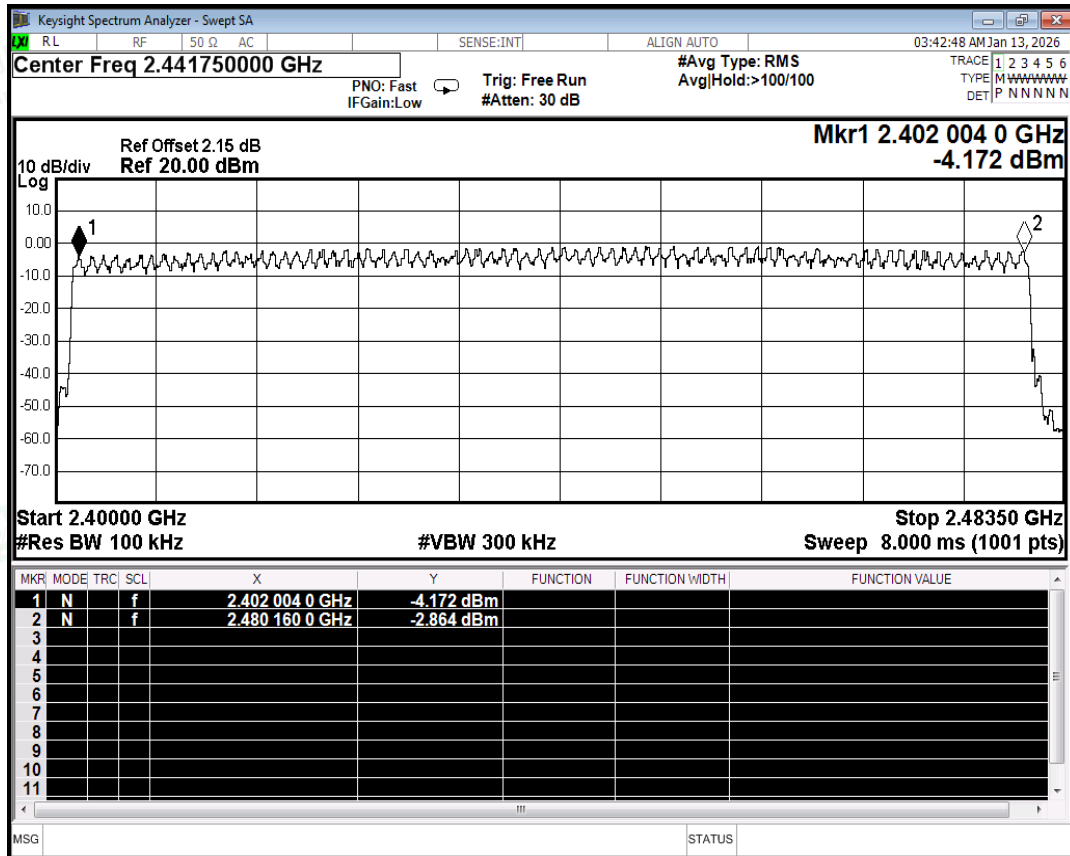


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Hopping No. NVNT 3-DH5 2402MHz Ant1



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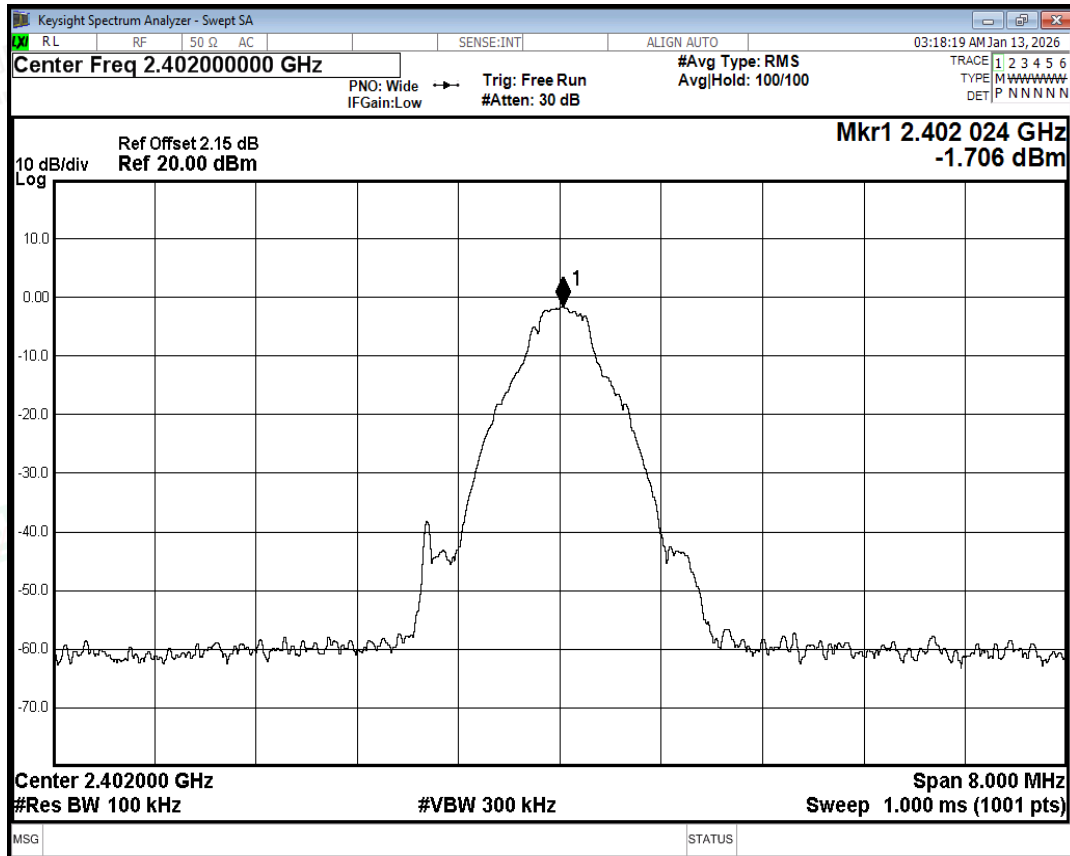
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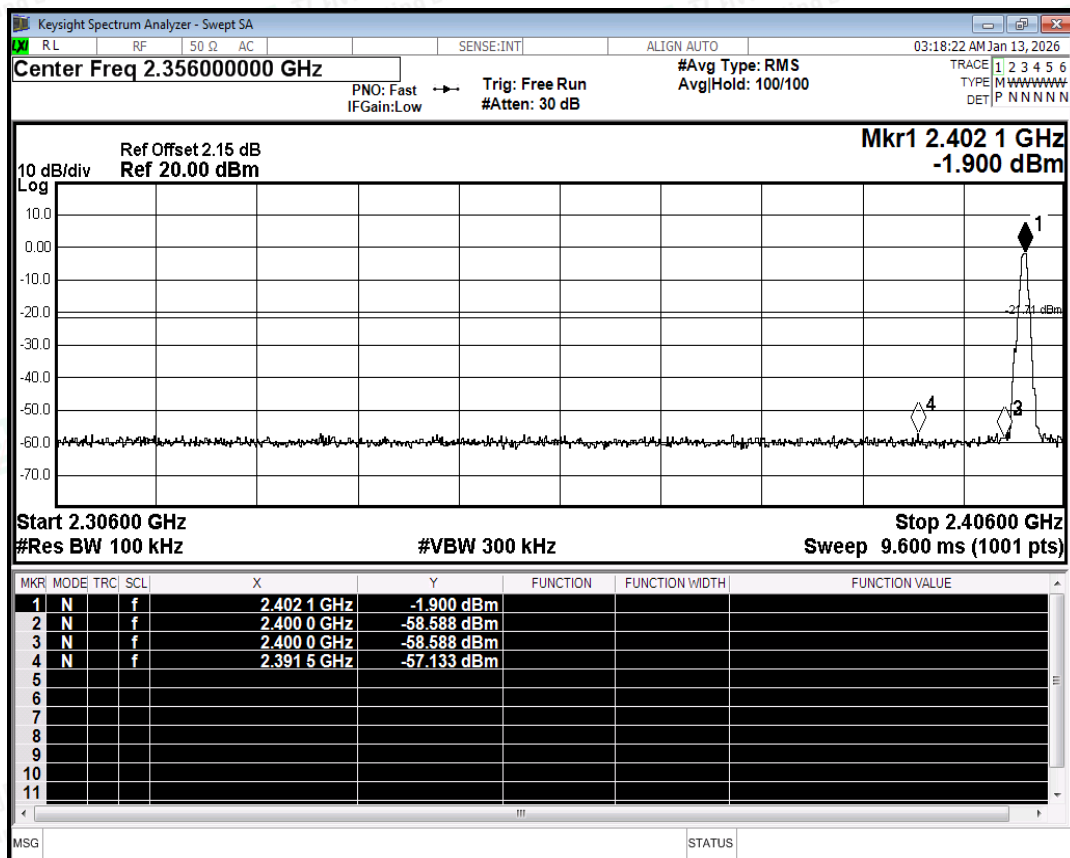
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.42	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.08	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.04	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.04	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.17	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.64	-20	Pass





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



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

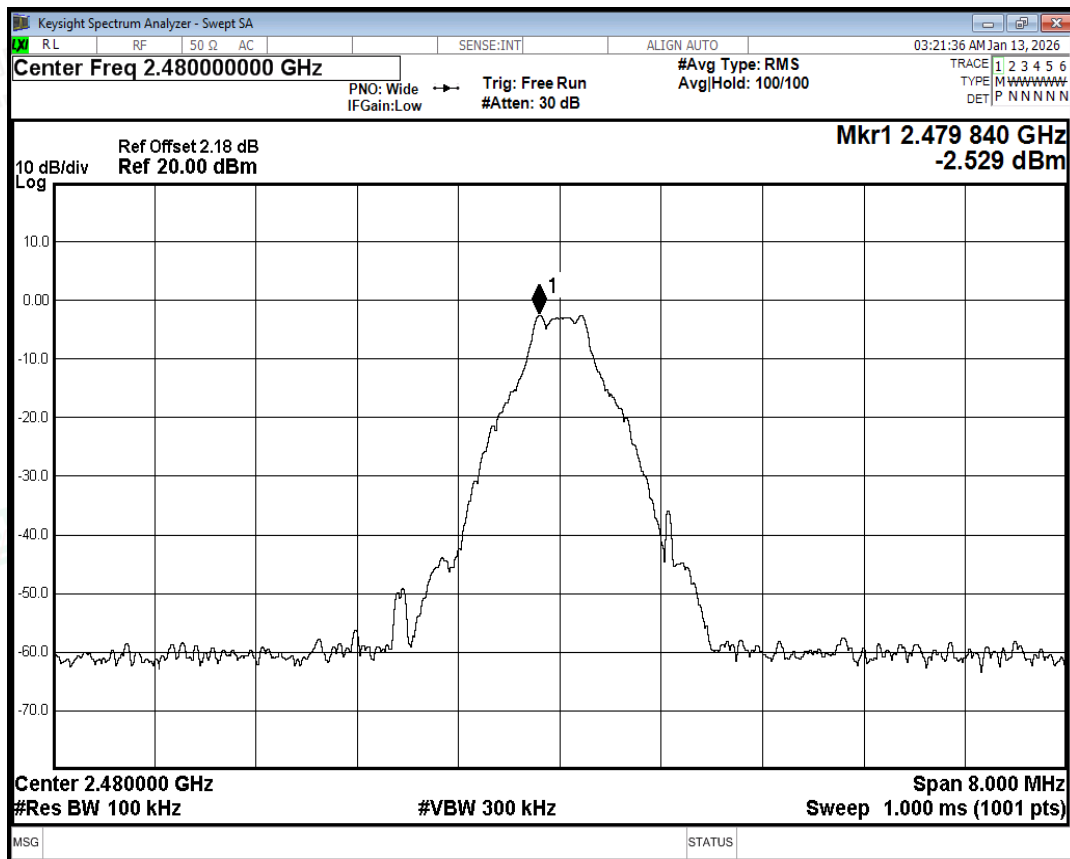


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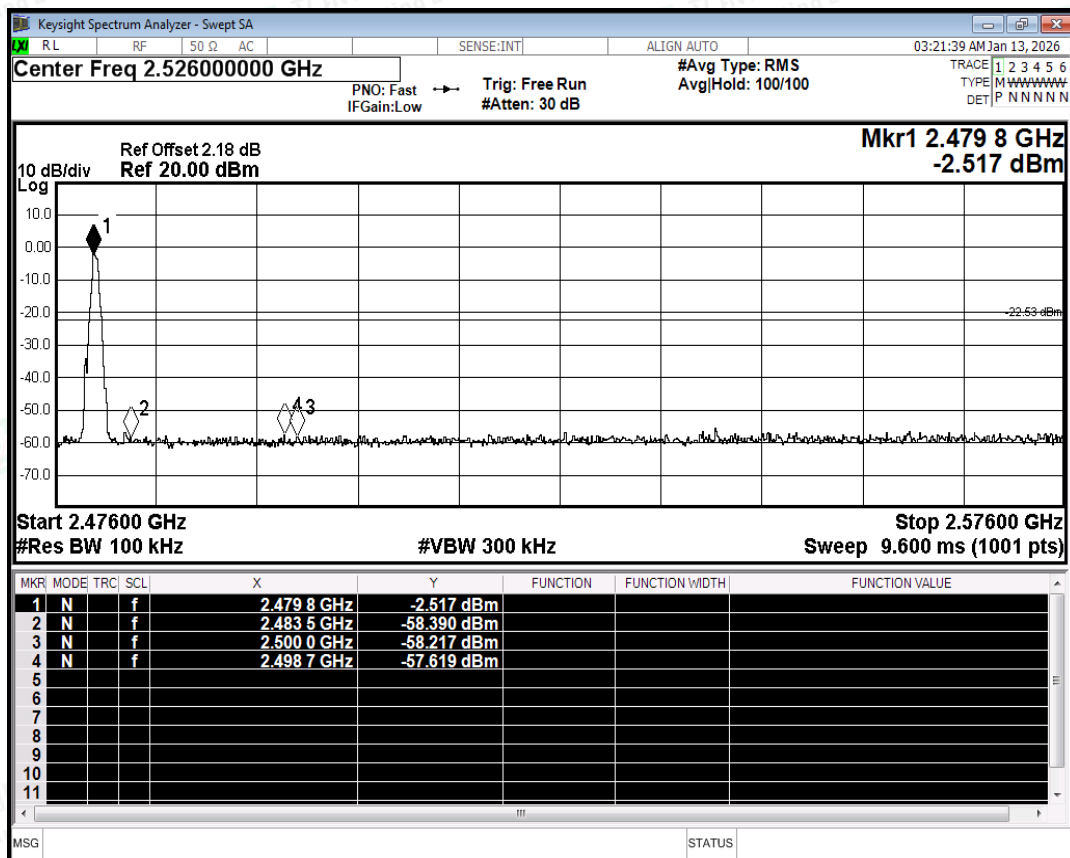
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

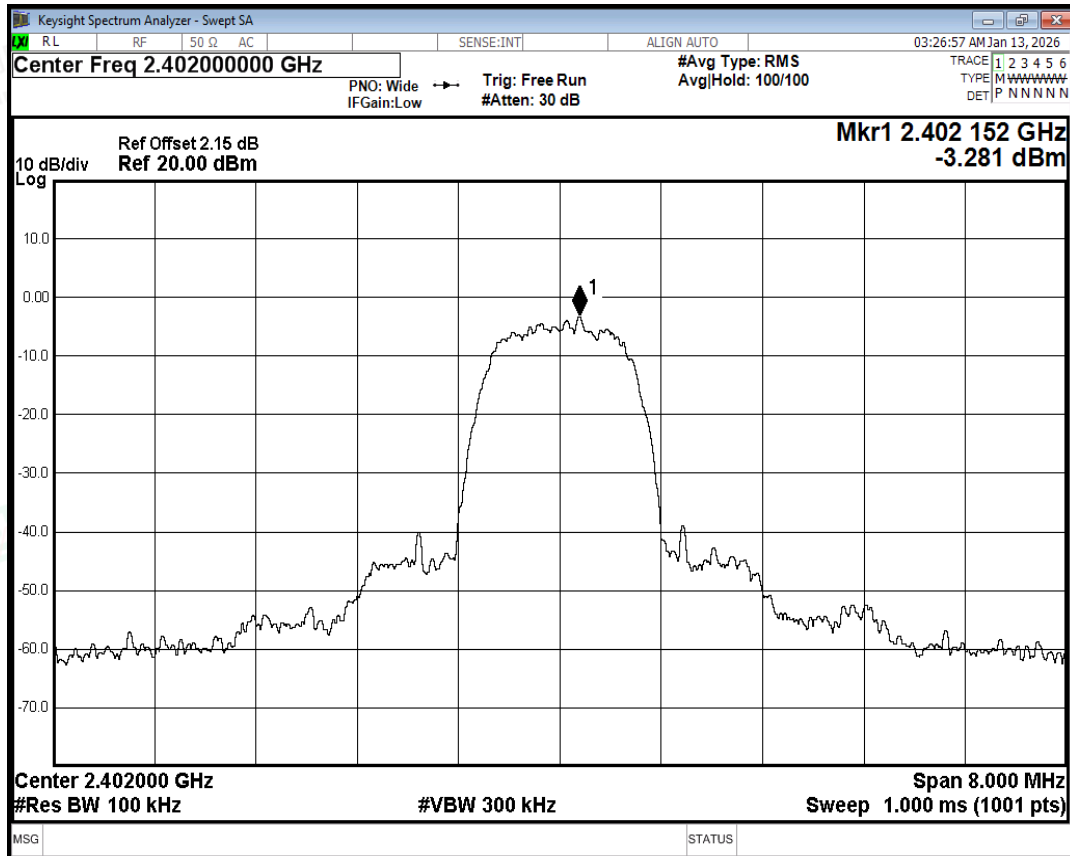


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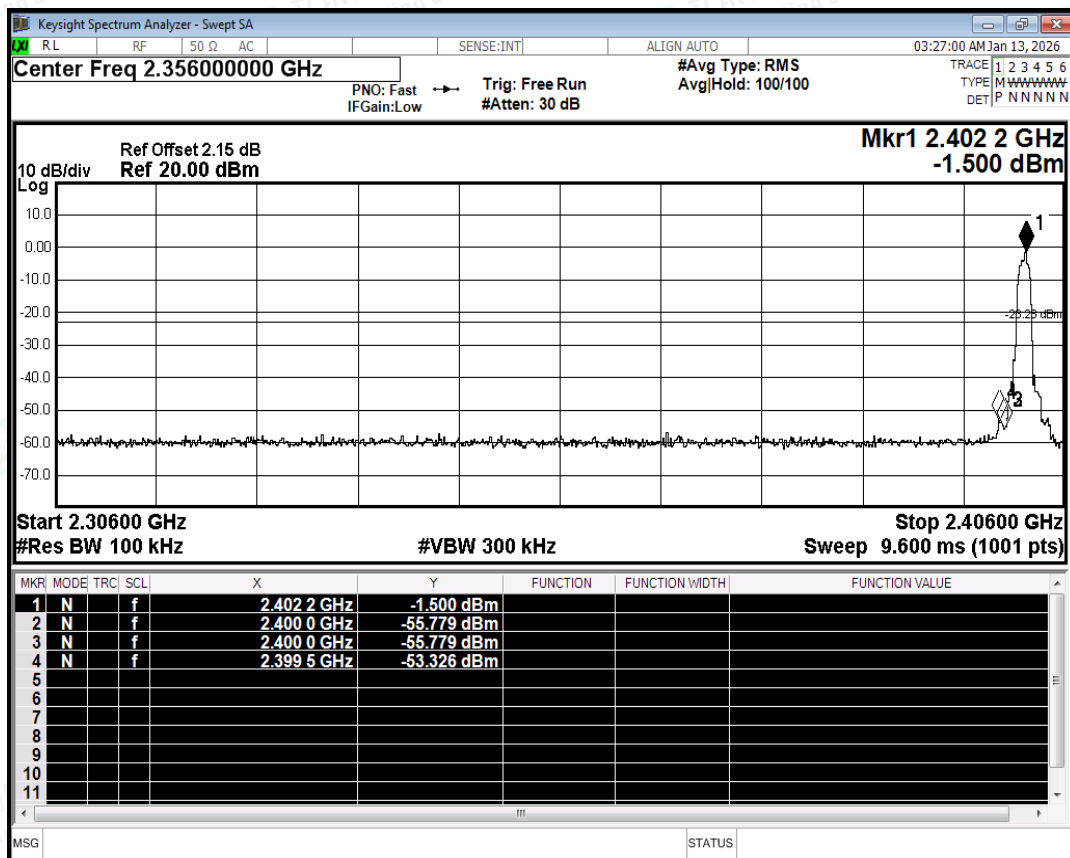
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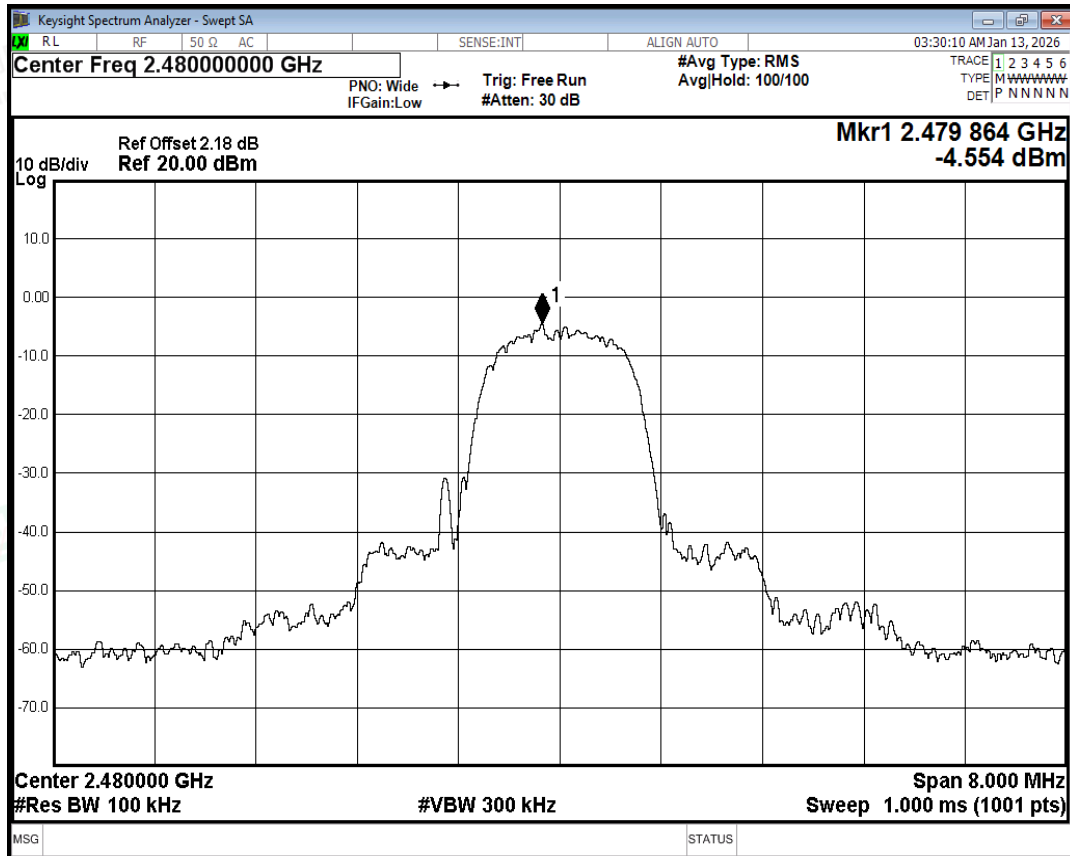


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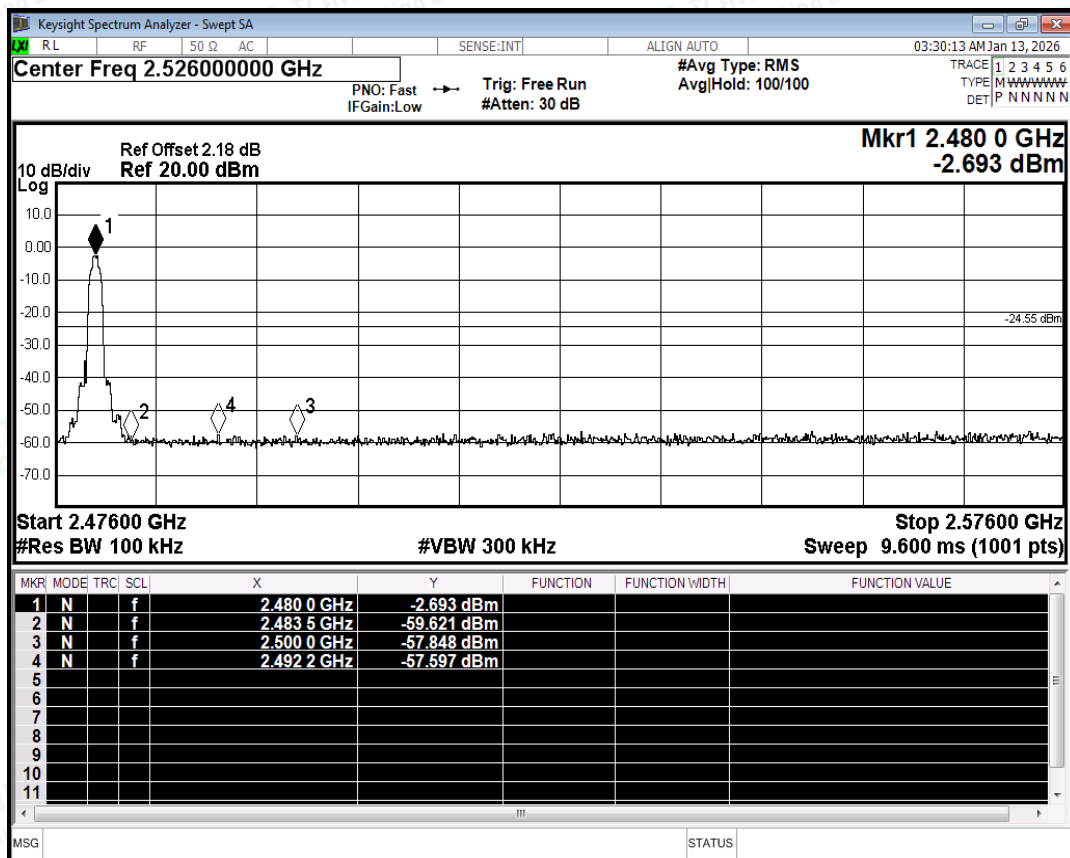
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

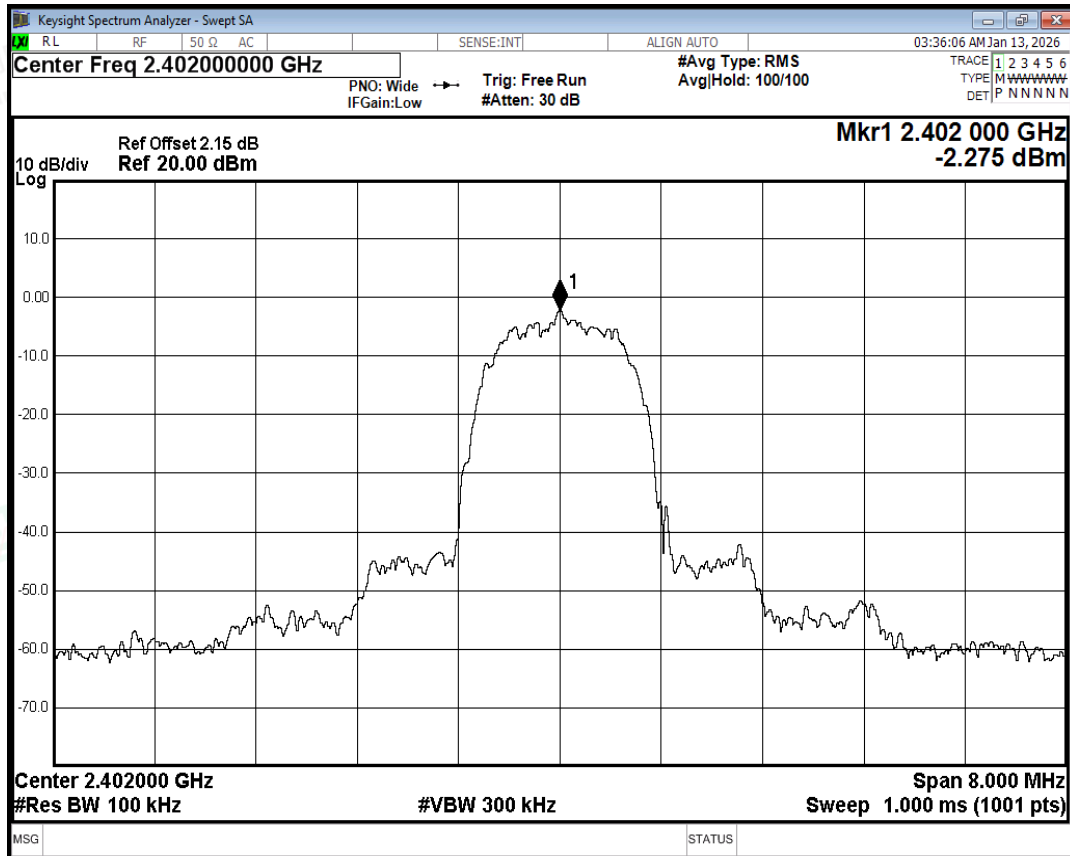


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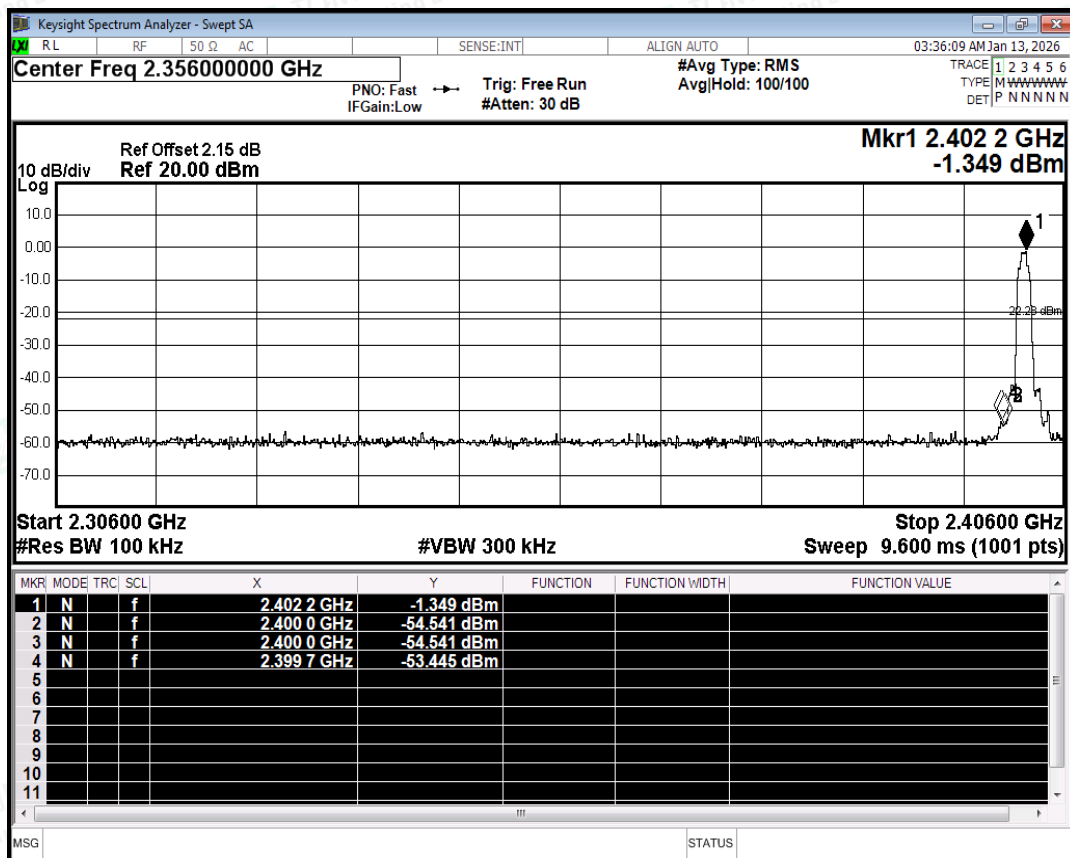
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

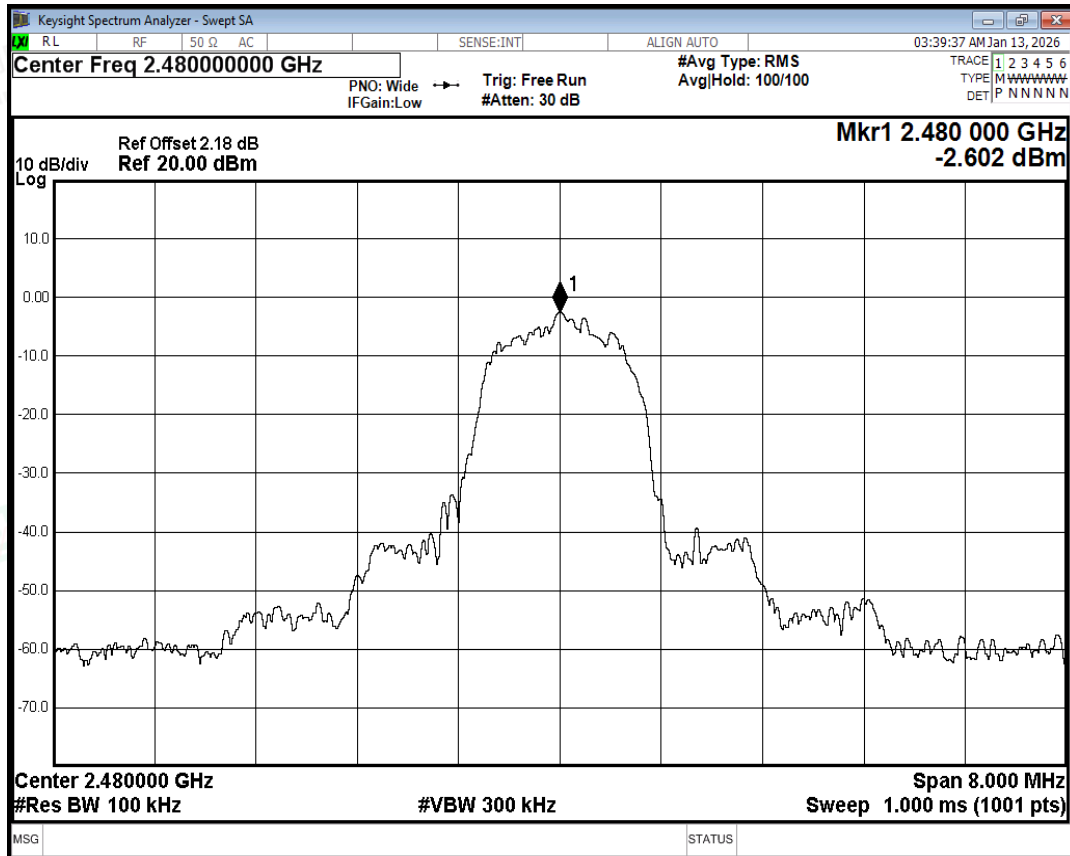


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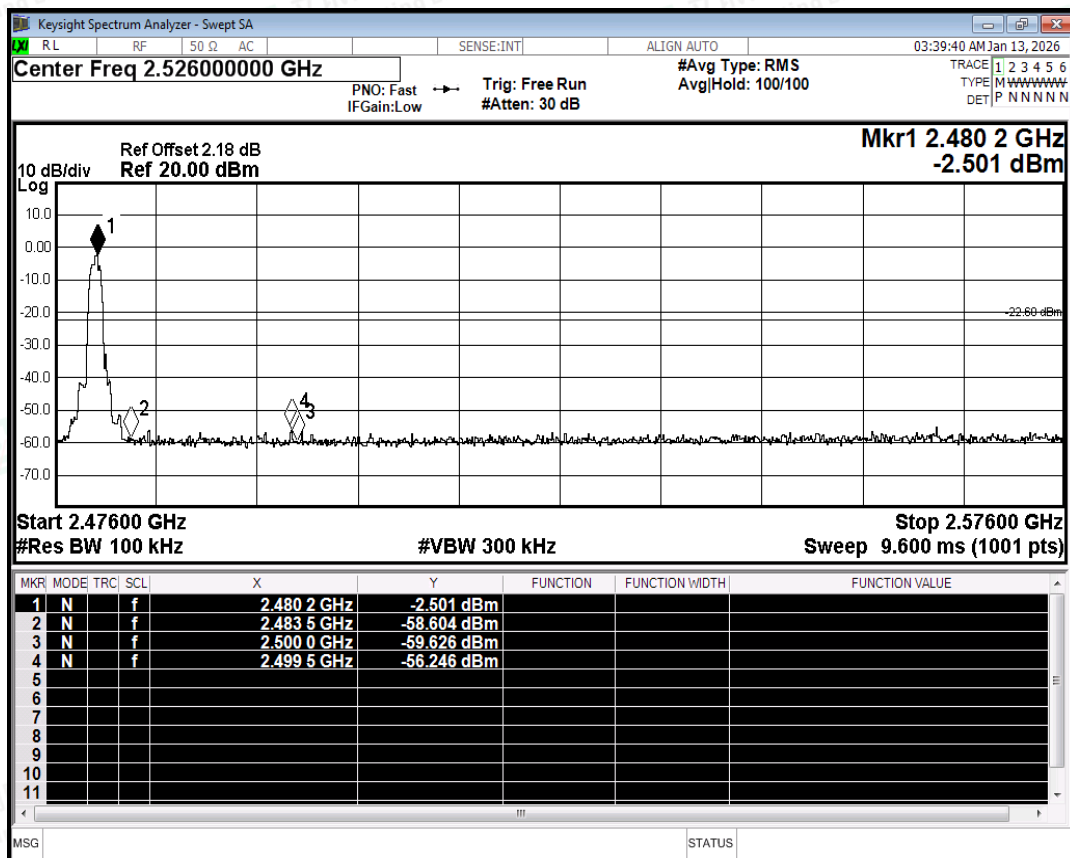
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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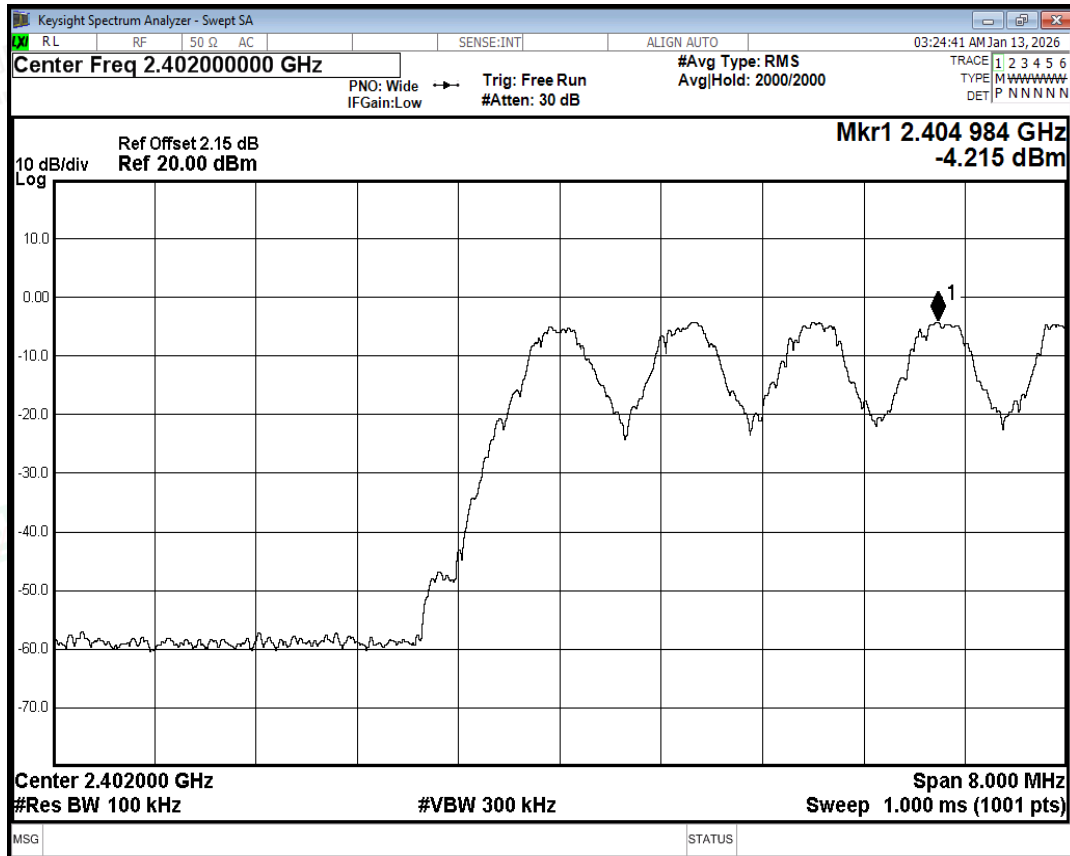
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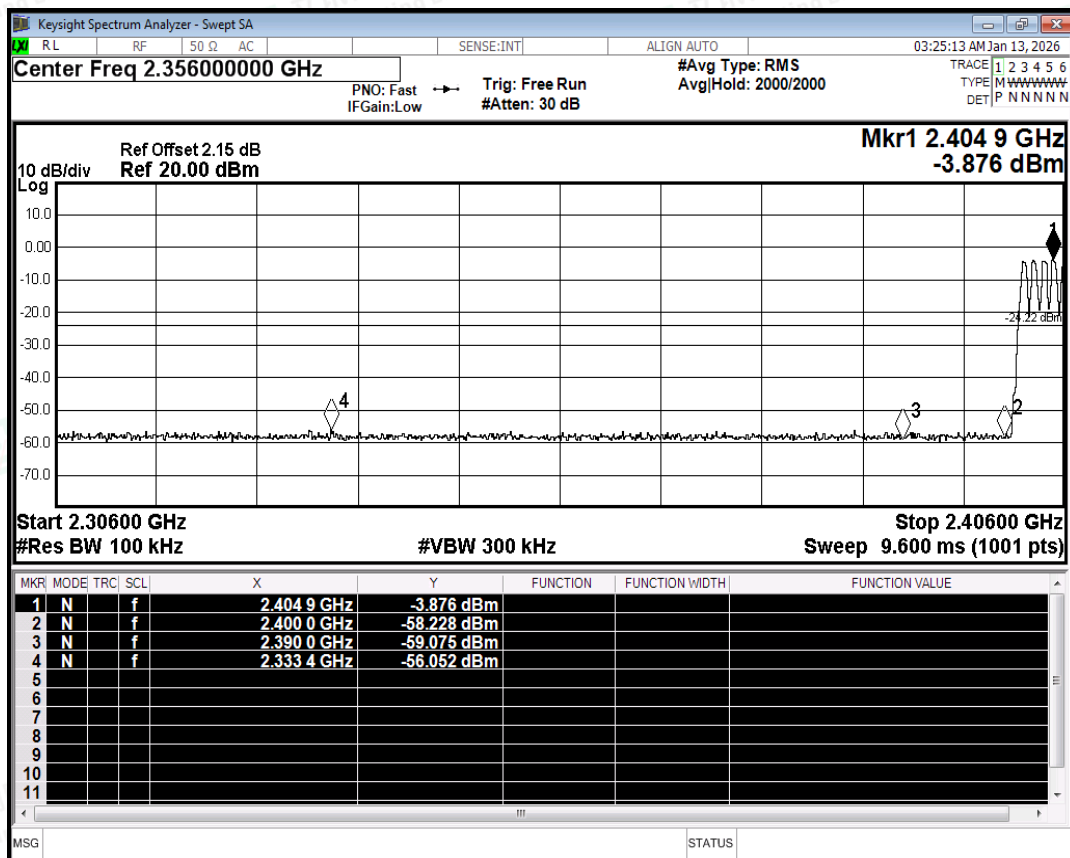
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.84	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.69	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.98	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.79	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.9	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.98	-20	Pass





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



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

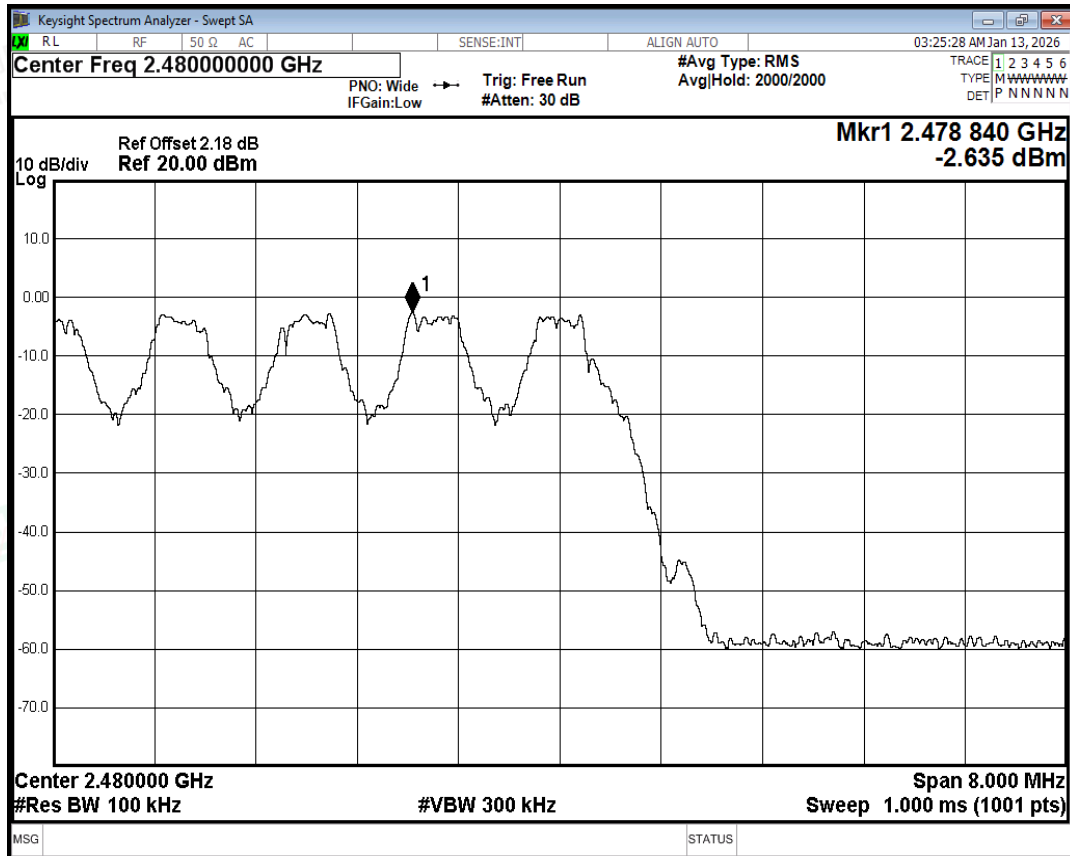


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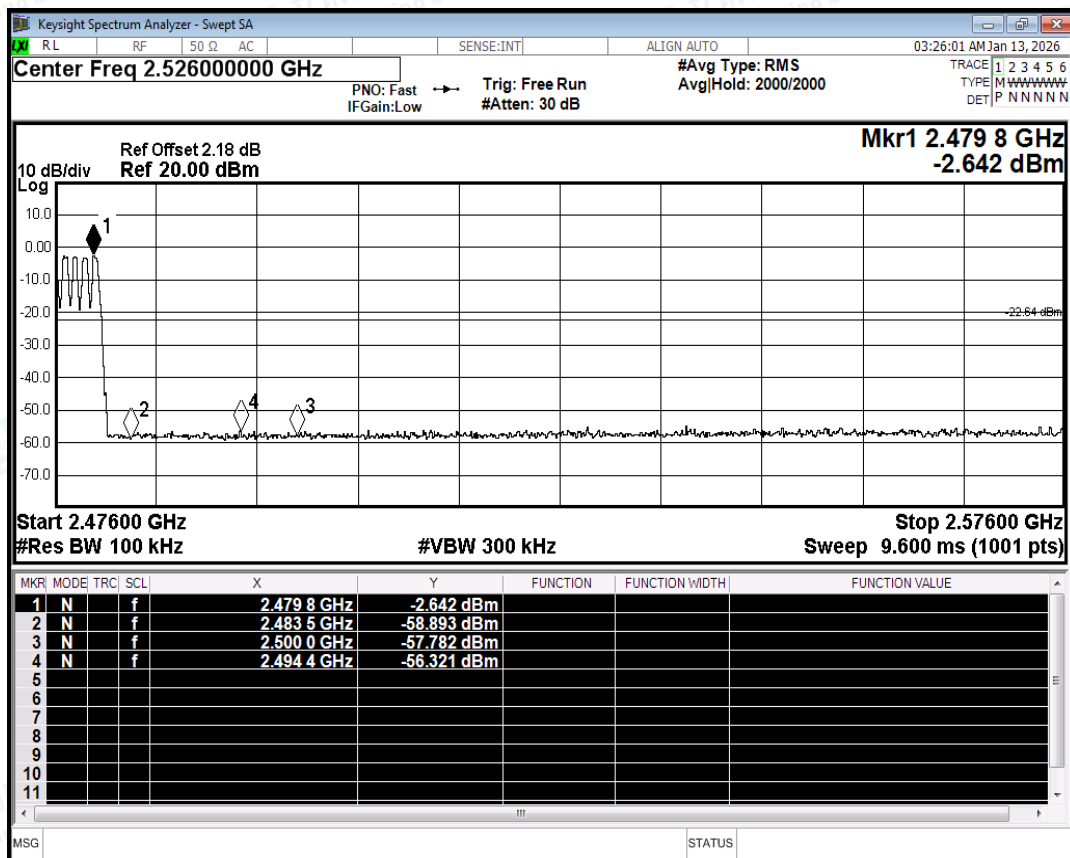
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

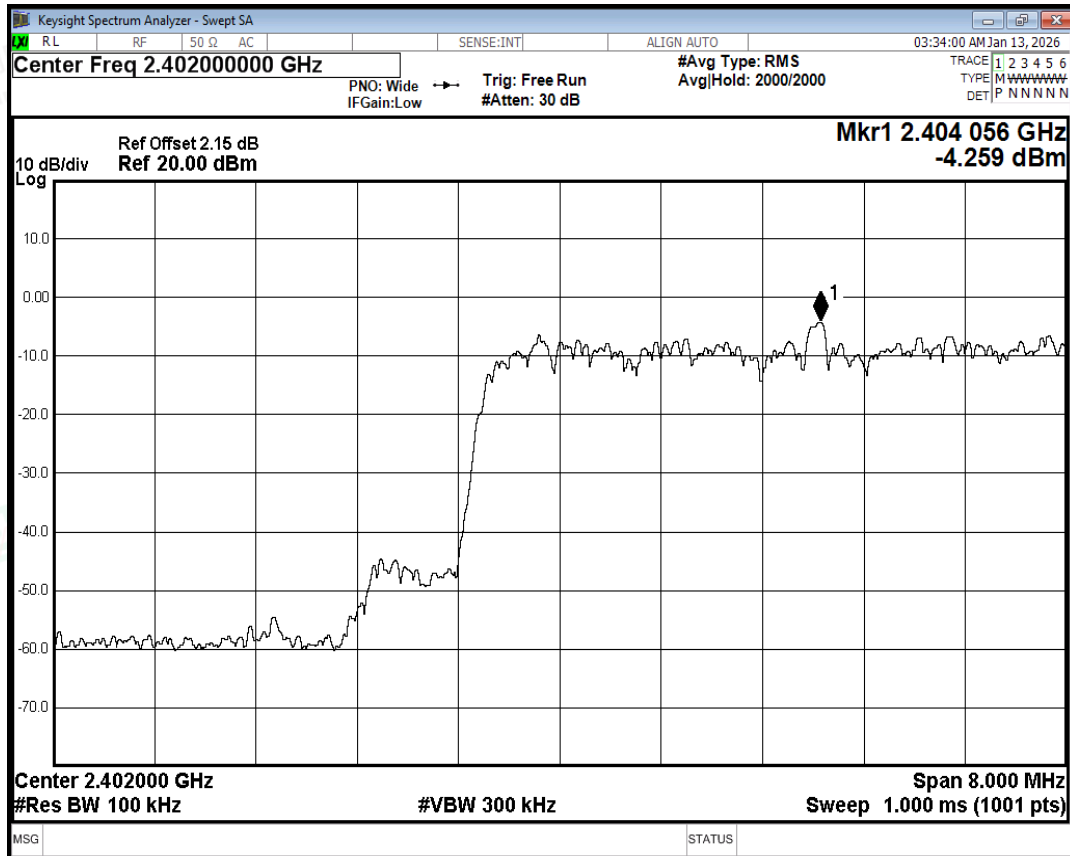


Shenzhen LCS Compliance Testing Laboratory Ltd.

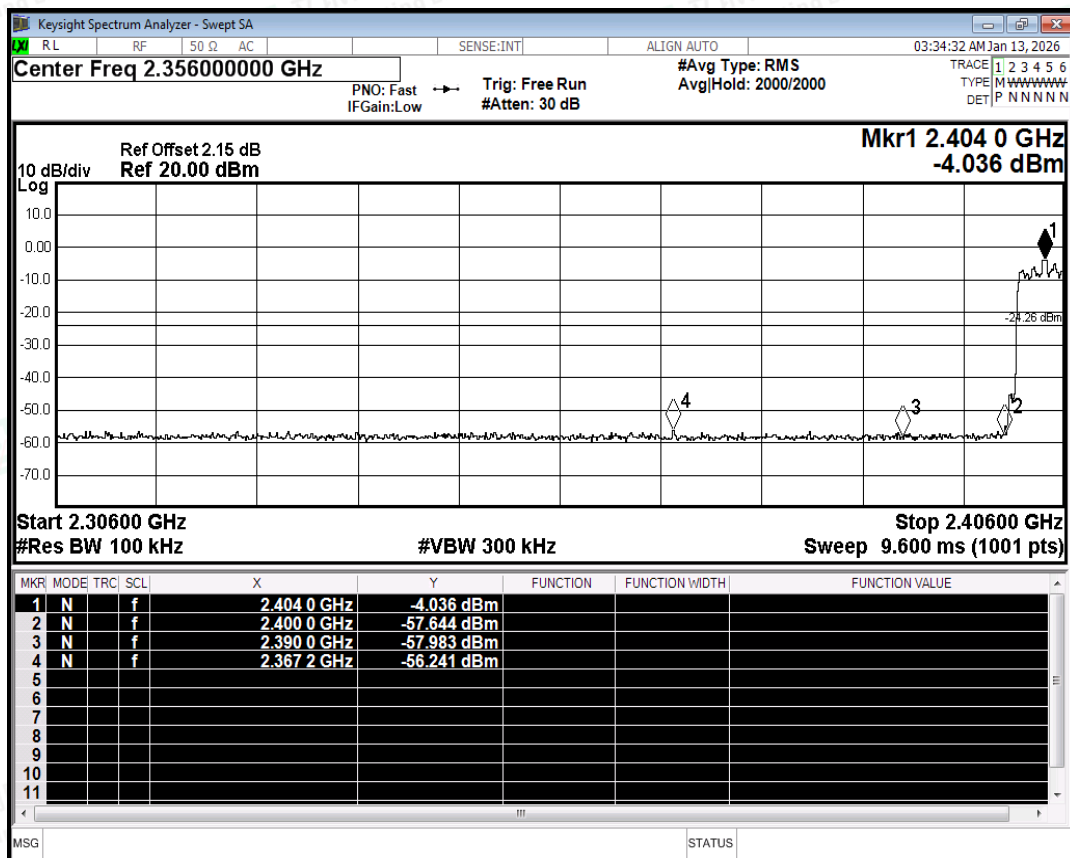
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

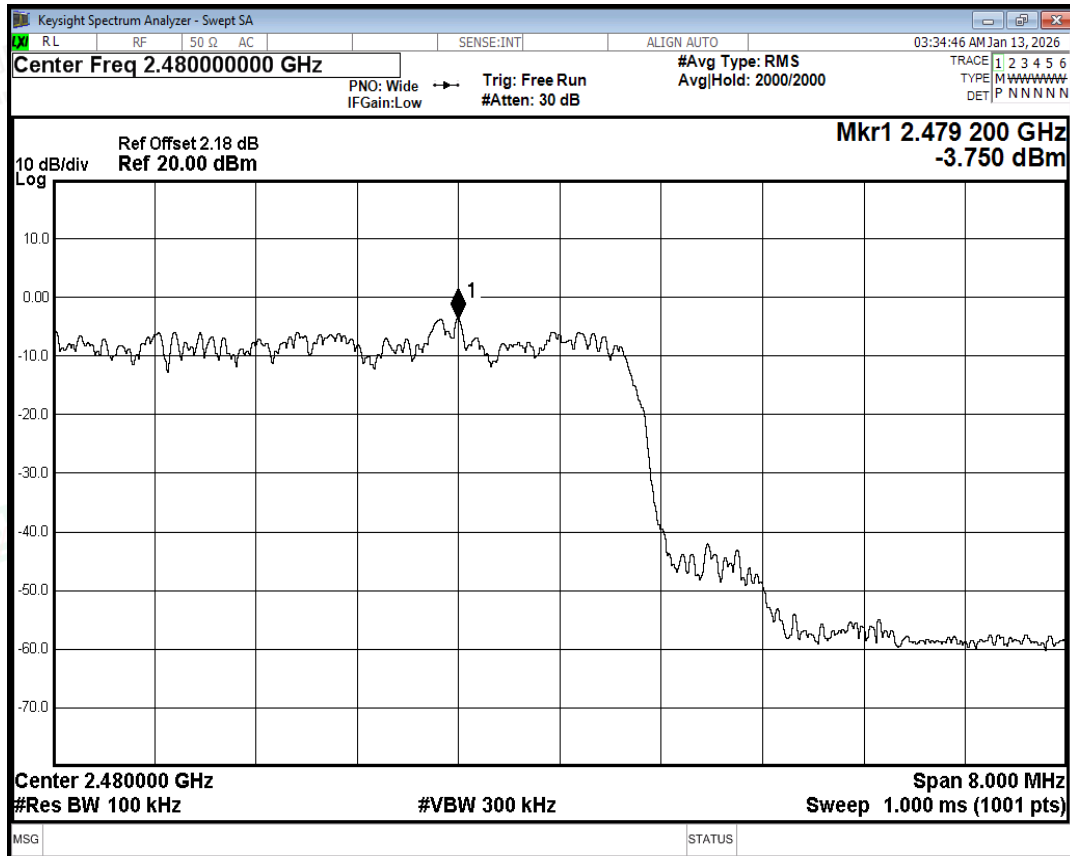


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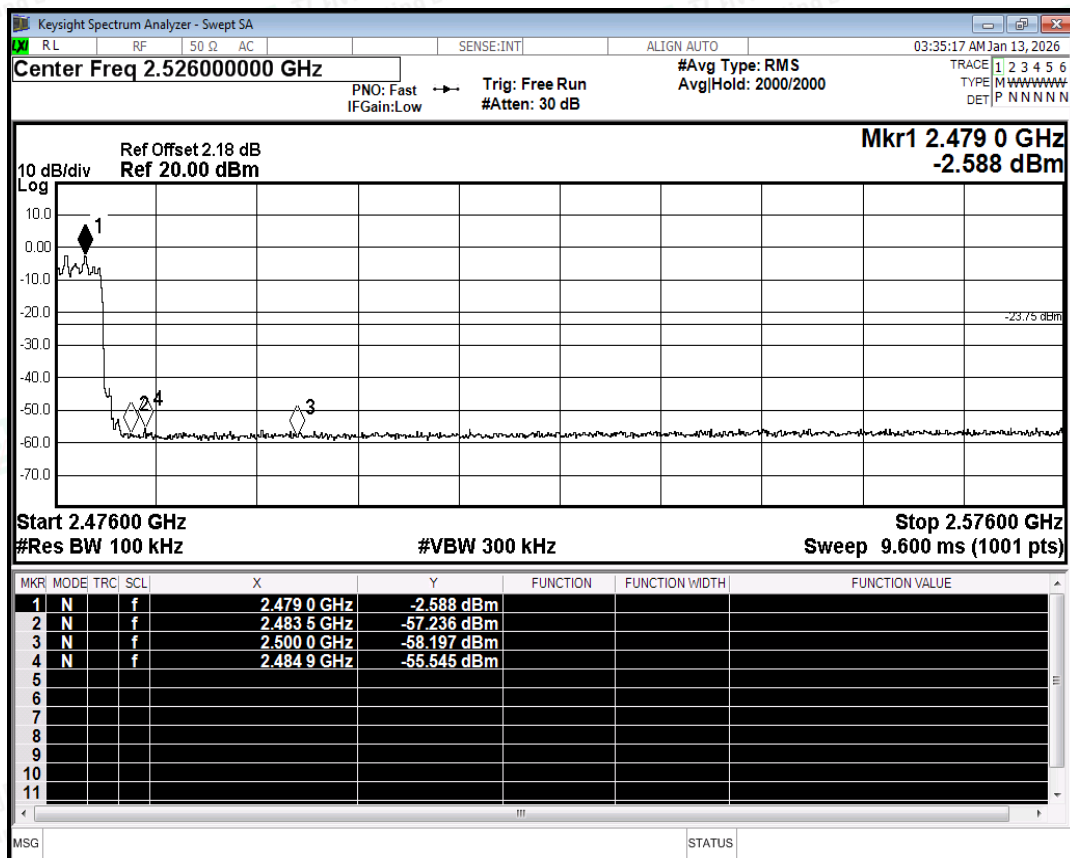
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

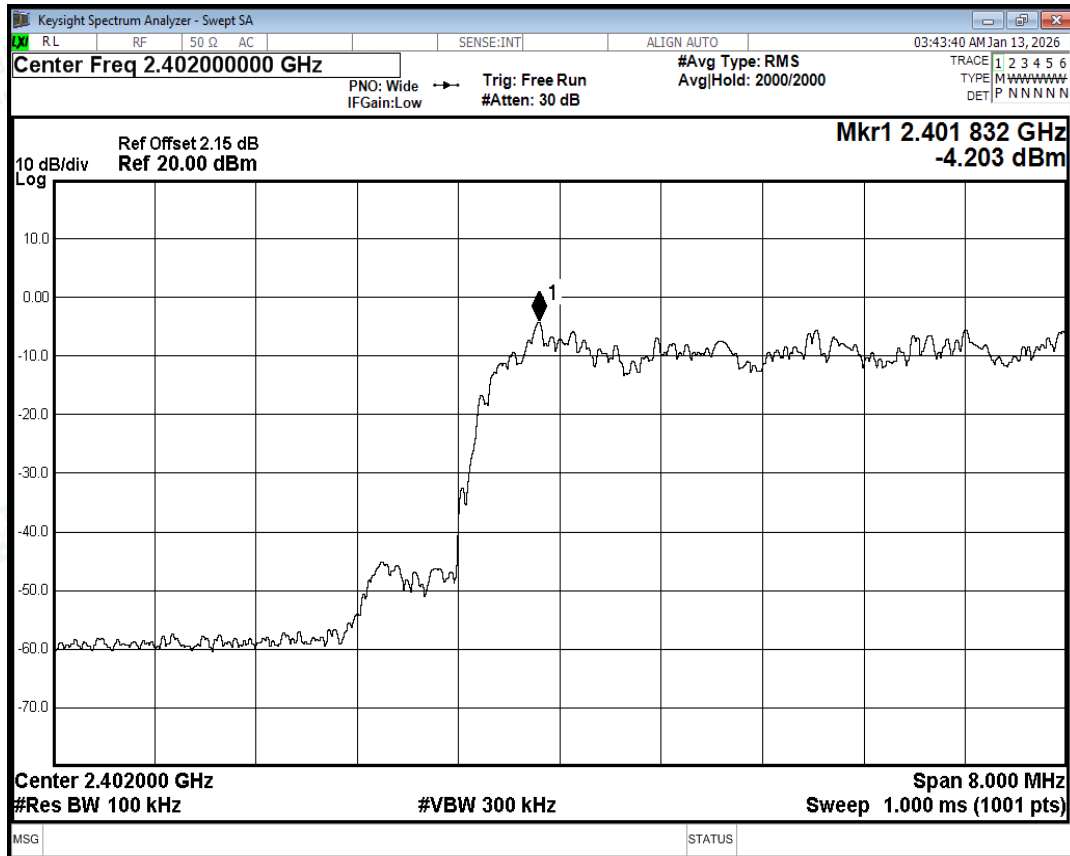


Shenzhen LCS Compliance Testing Laboratory Ltd.

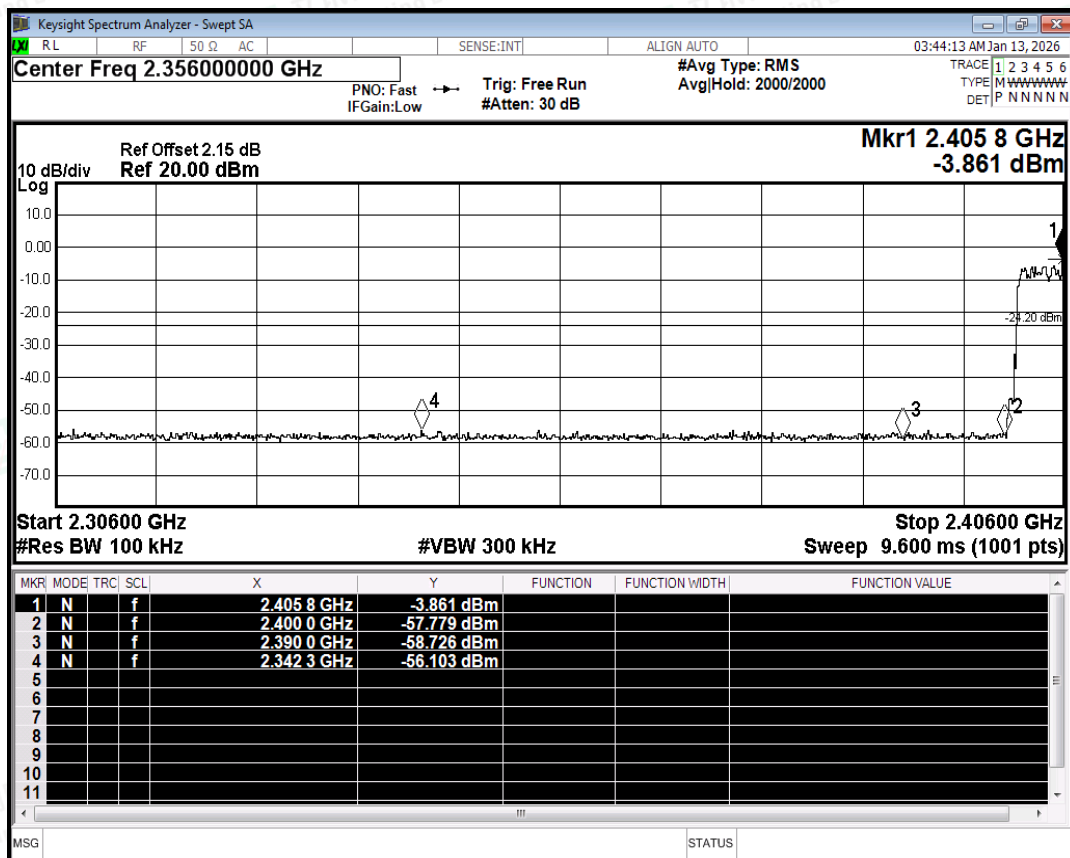
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

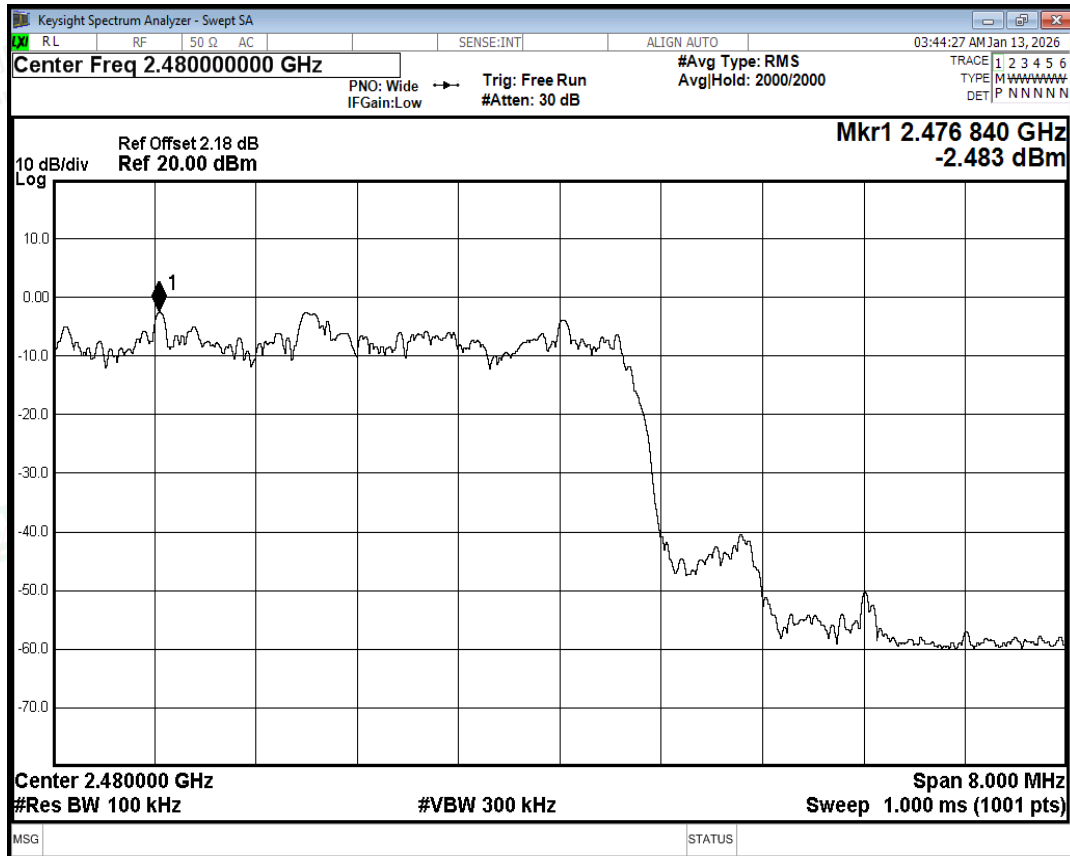


Shenzhen LCS Compliance Testing Laboratory Ltd.

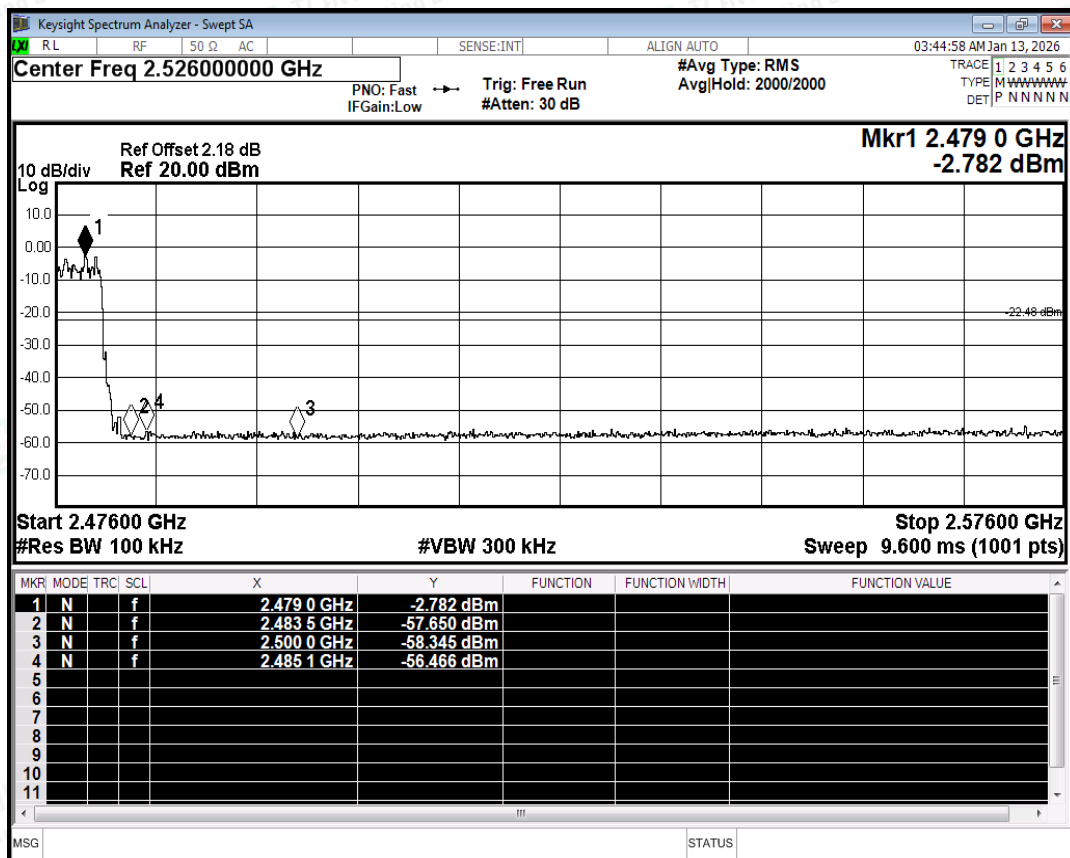
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



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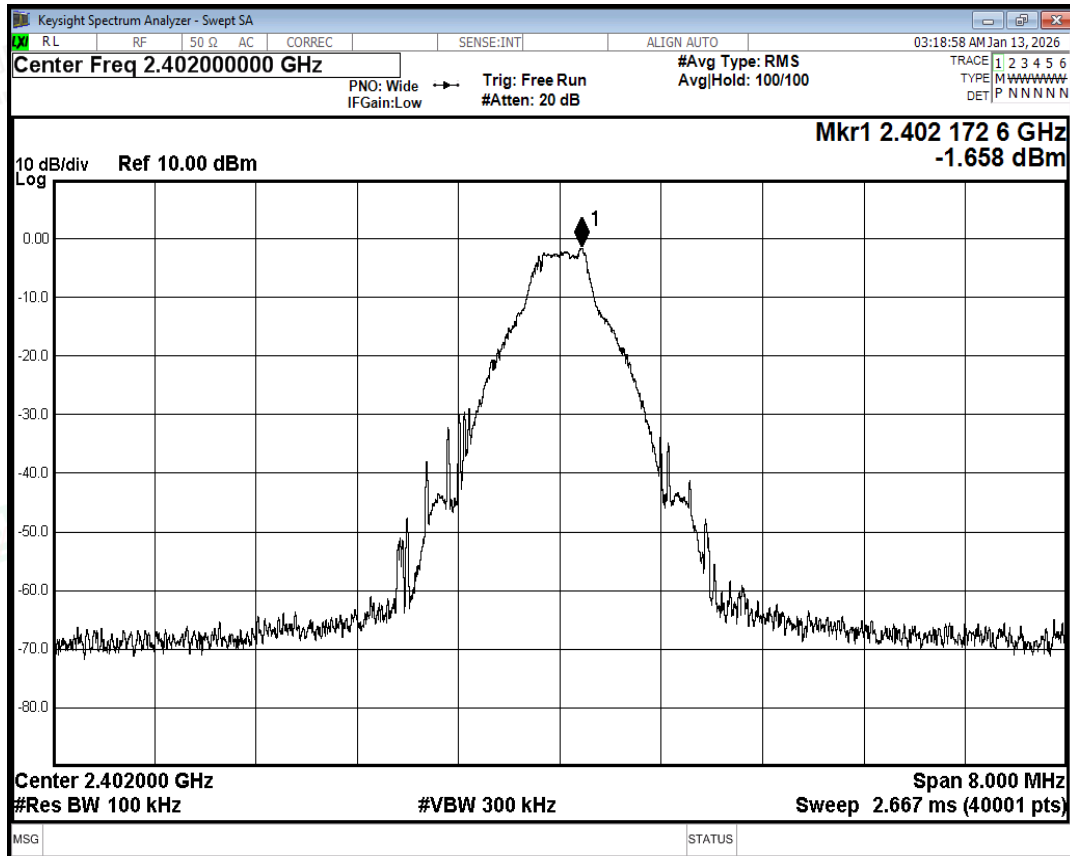
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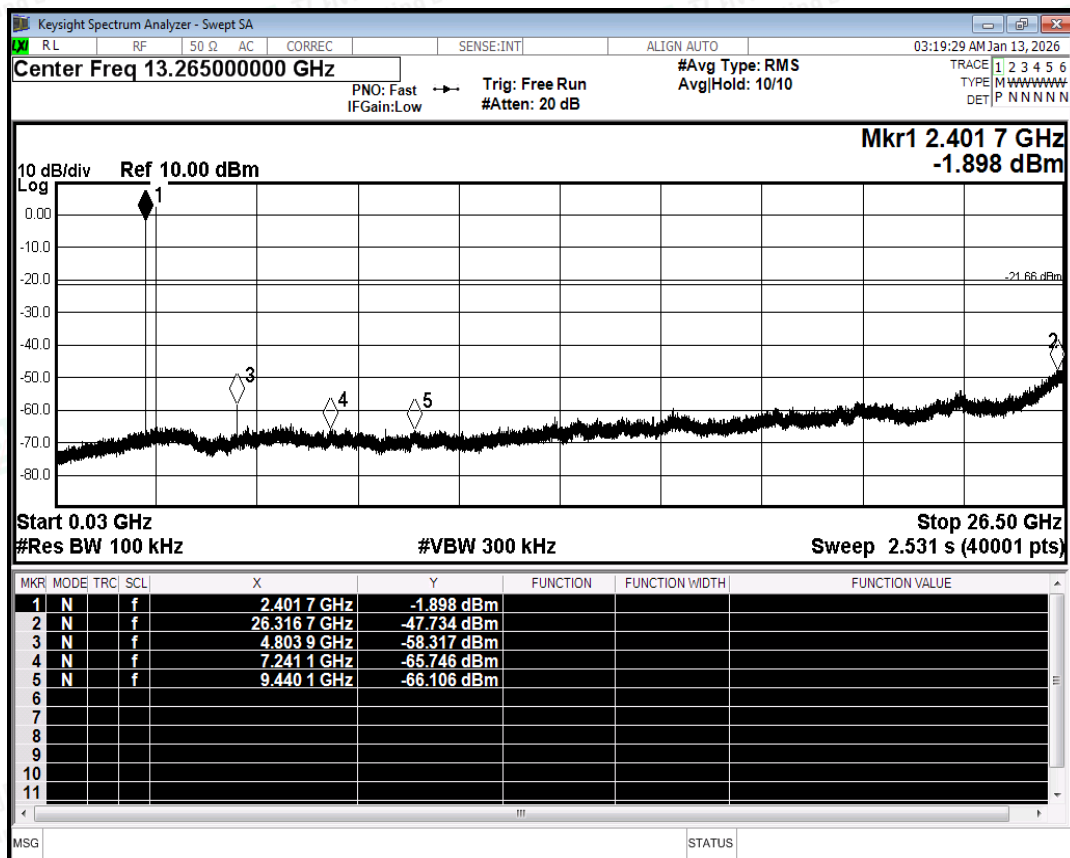
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.07	-20	Pass
NVNT	1-DH5	2441	Ant1	-45.8	-20	Pass
NVNT	1-DH5	2480	Ant1	-44.39	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.44	-20	Pass
NVNT	2-DH5	2441	Ant1	-44.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-44.09	-20	Pass
NVNT	3-DH5	2402	Ant1	-43.71	-20	Pass
NVNT	3-DH5	2441	Ant1	-45.38	-20	Pass
NVNT	3-DH5	2480	Ant1	-44.1	-20	Pass





Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

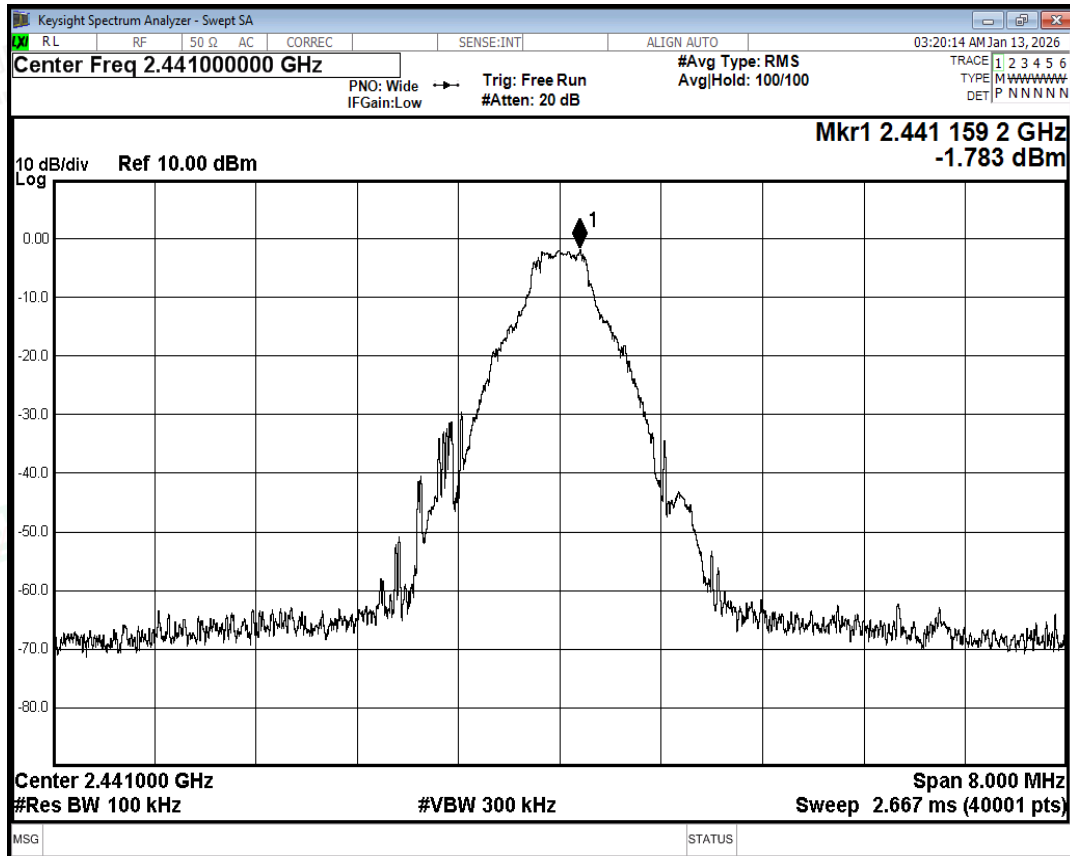


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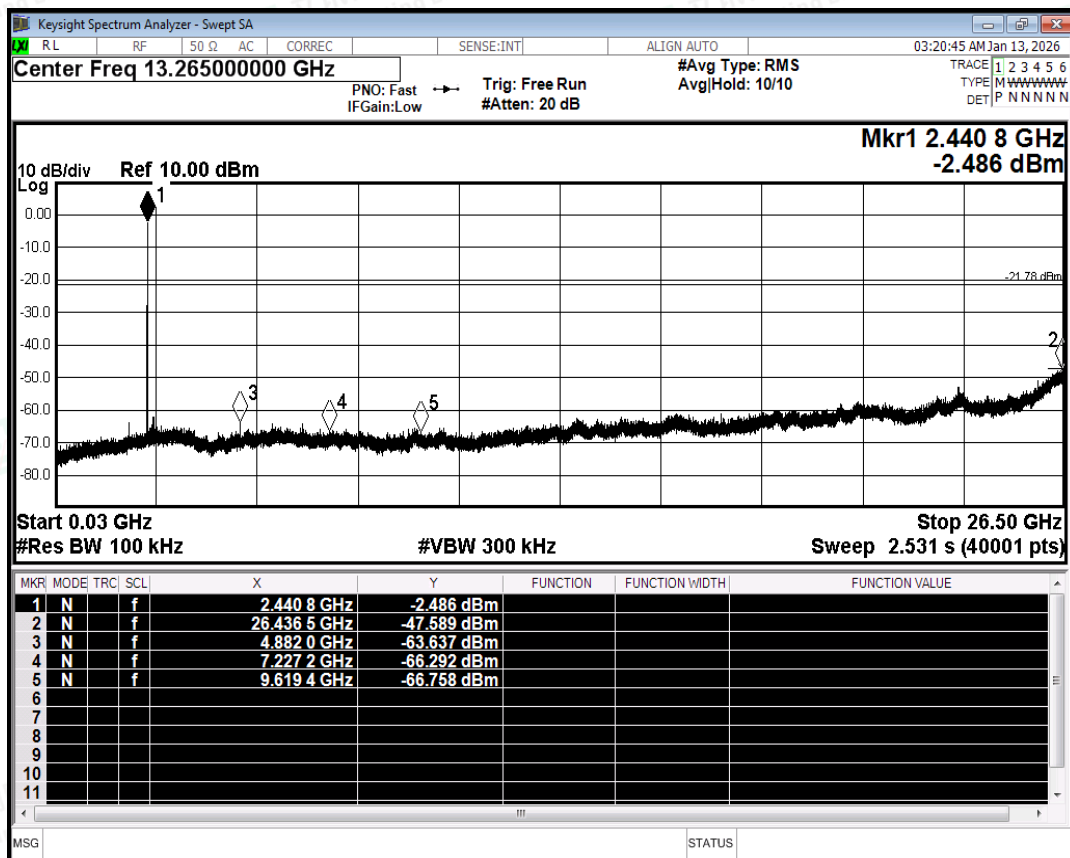
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

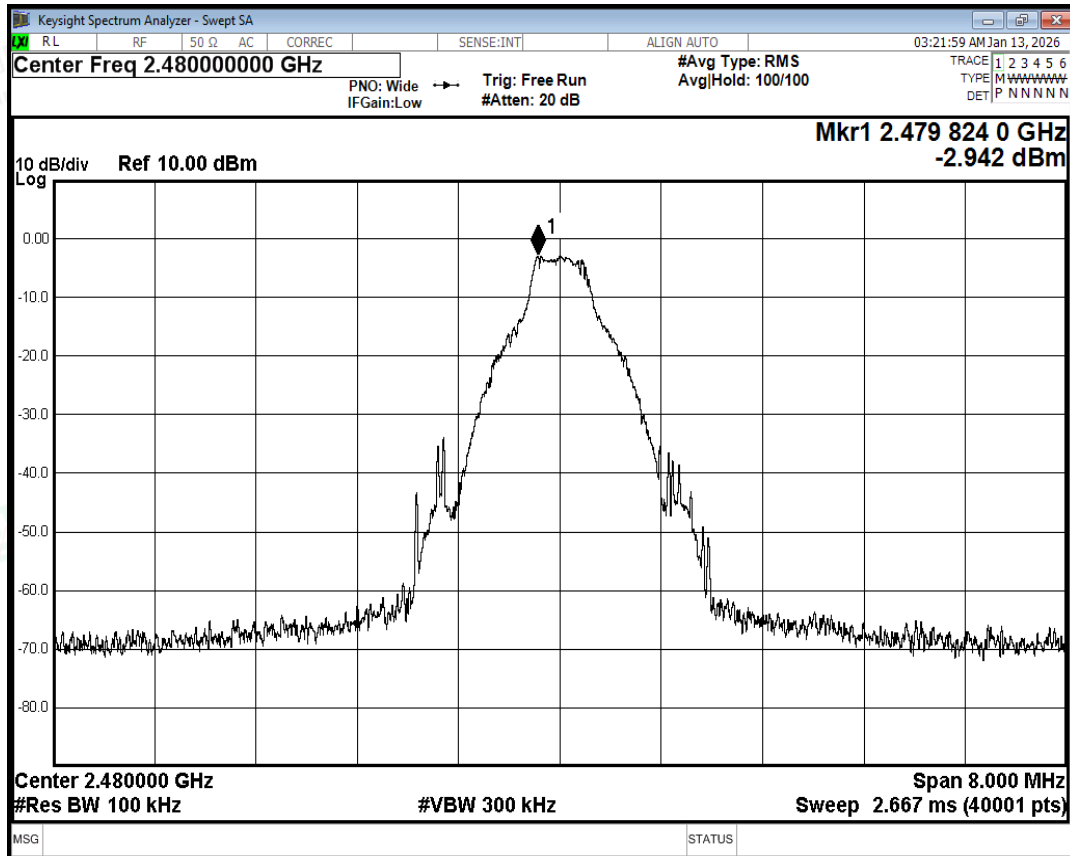


Shenzhen LCS Compliance Testing Laboratory Ltd.

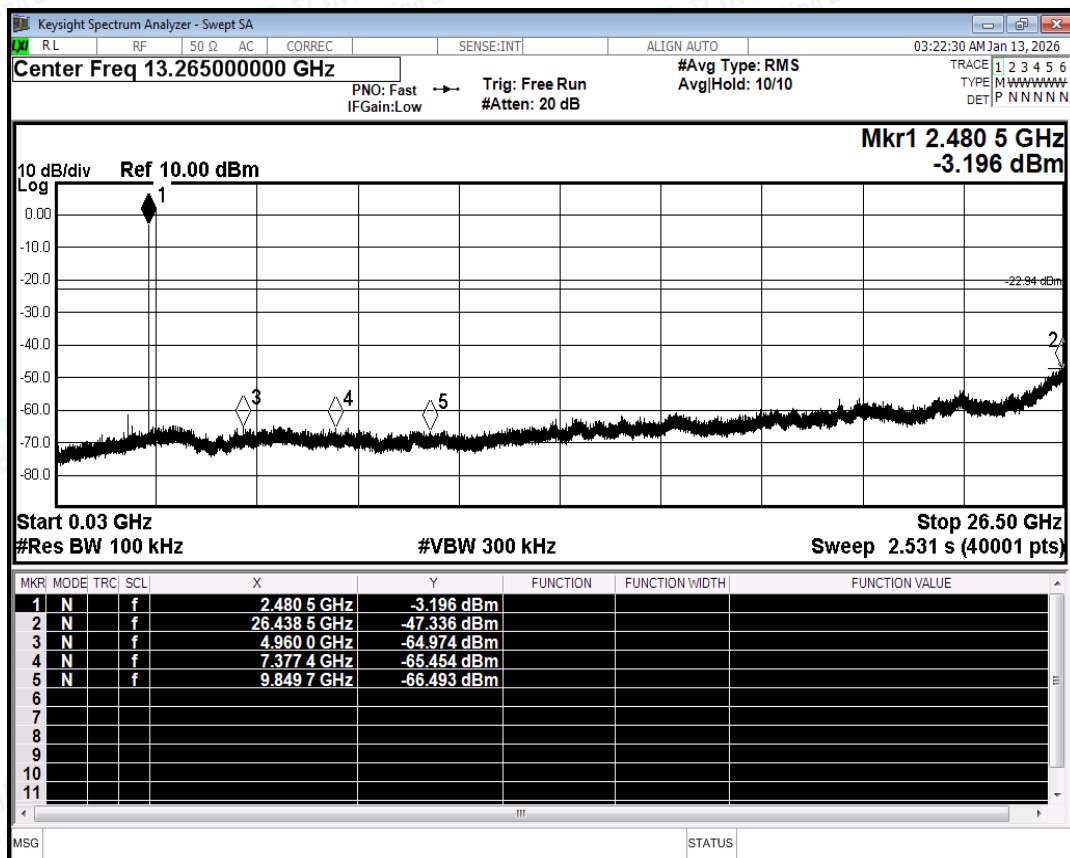
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

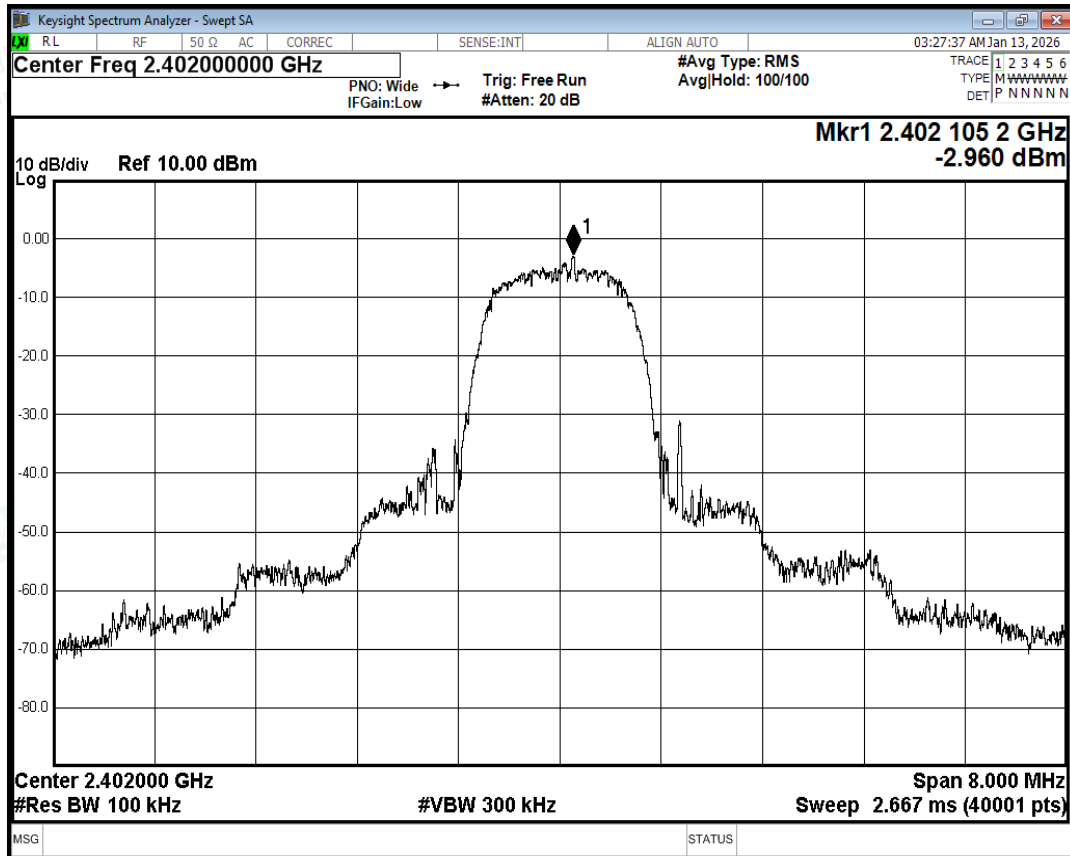


Shenzhen LCS Compliance Testing Laboratory Ltd.

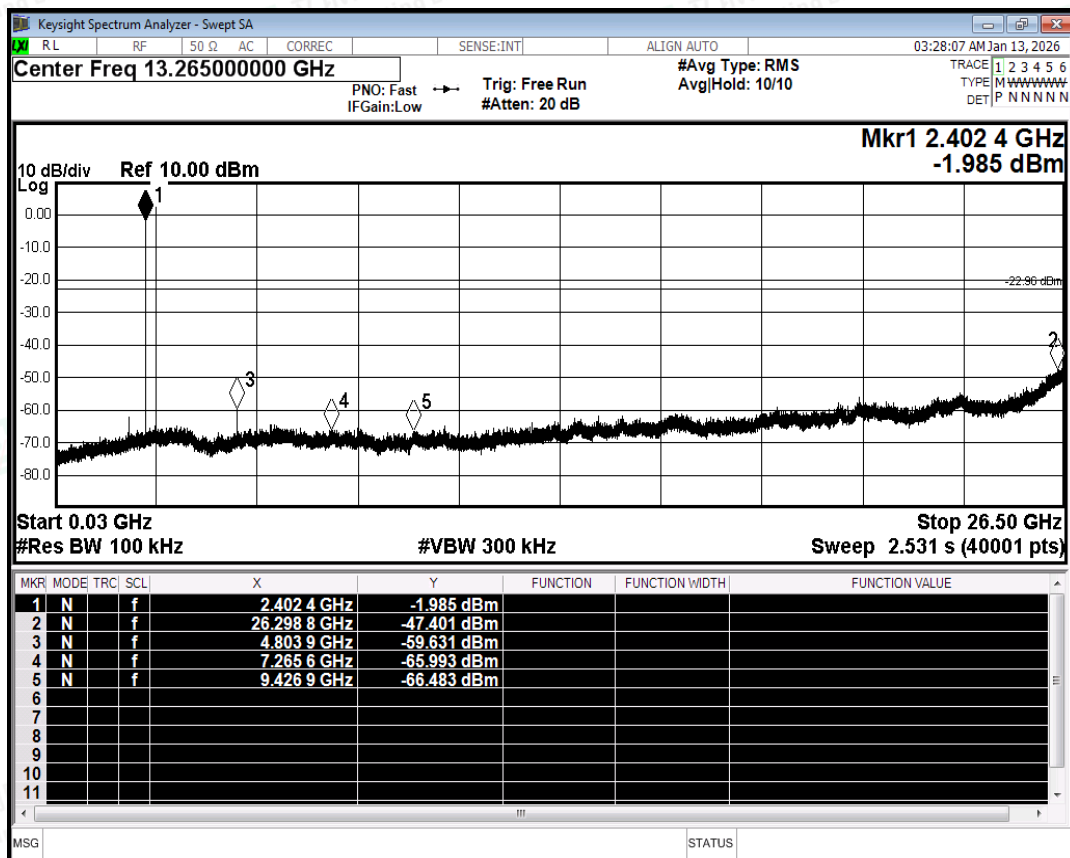
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

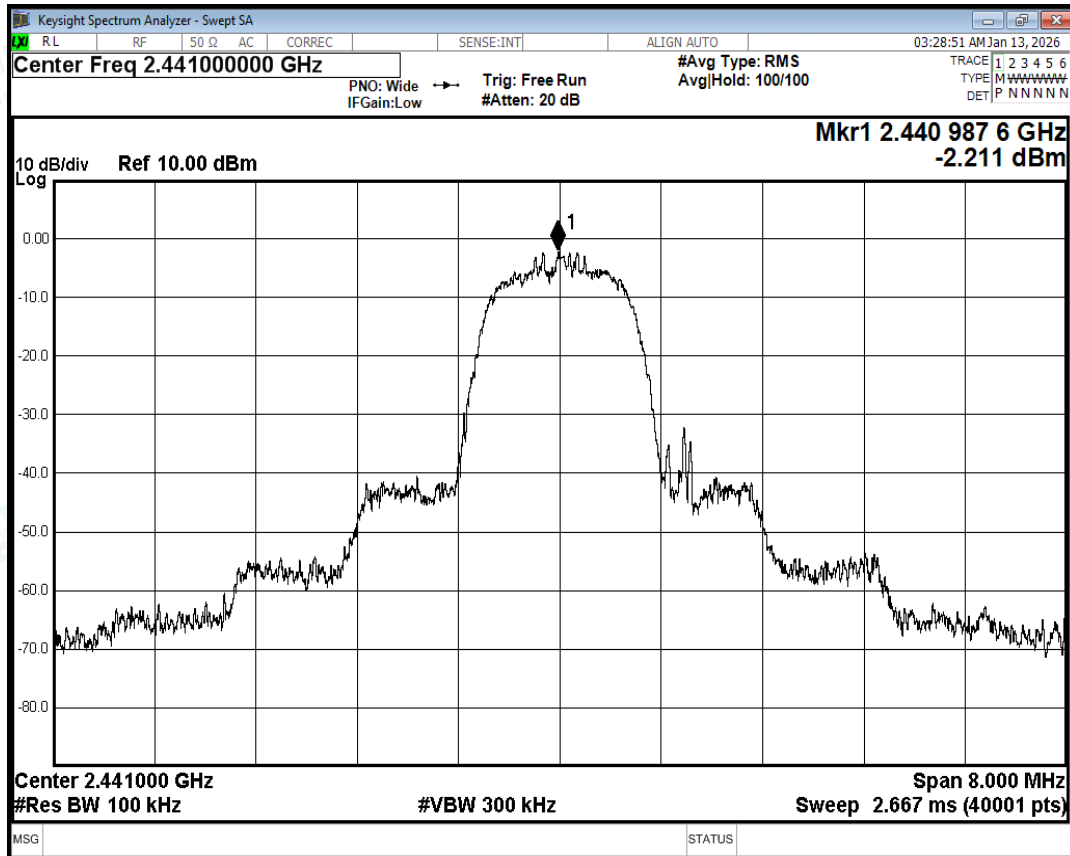


Shenzhen LCS Compliance Testing Laboratory Ltd.

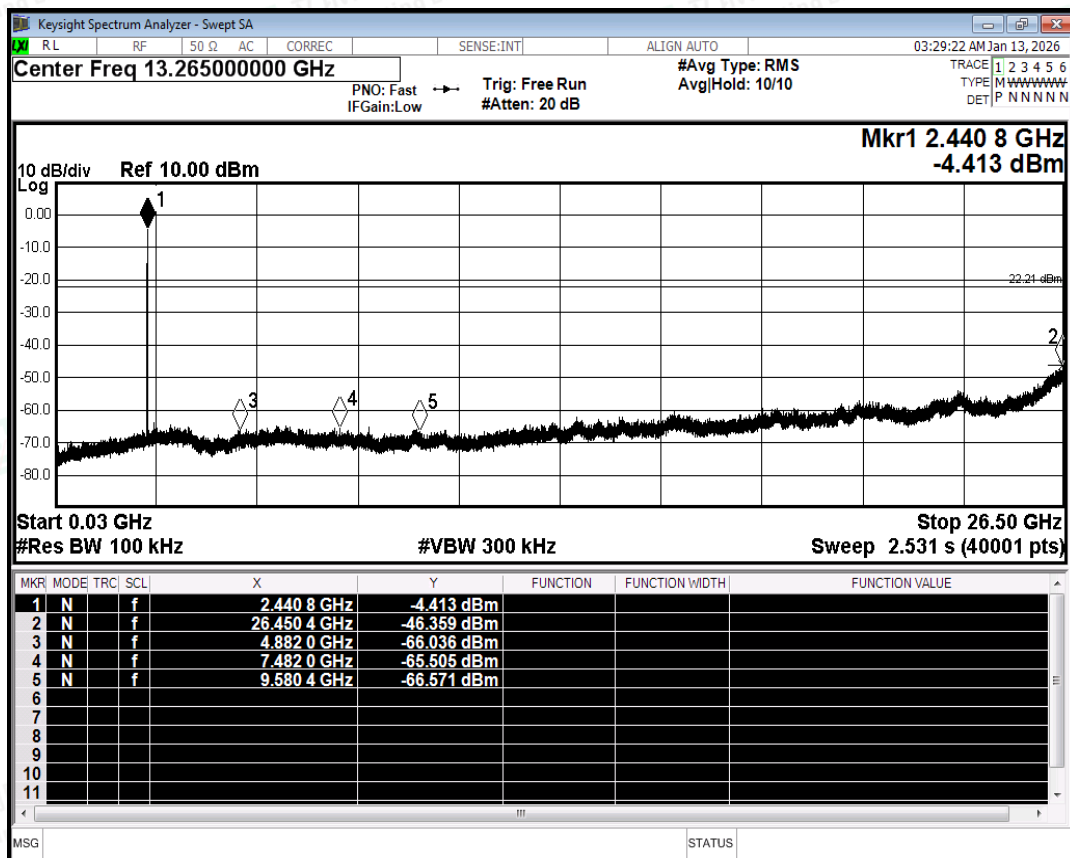
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

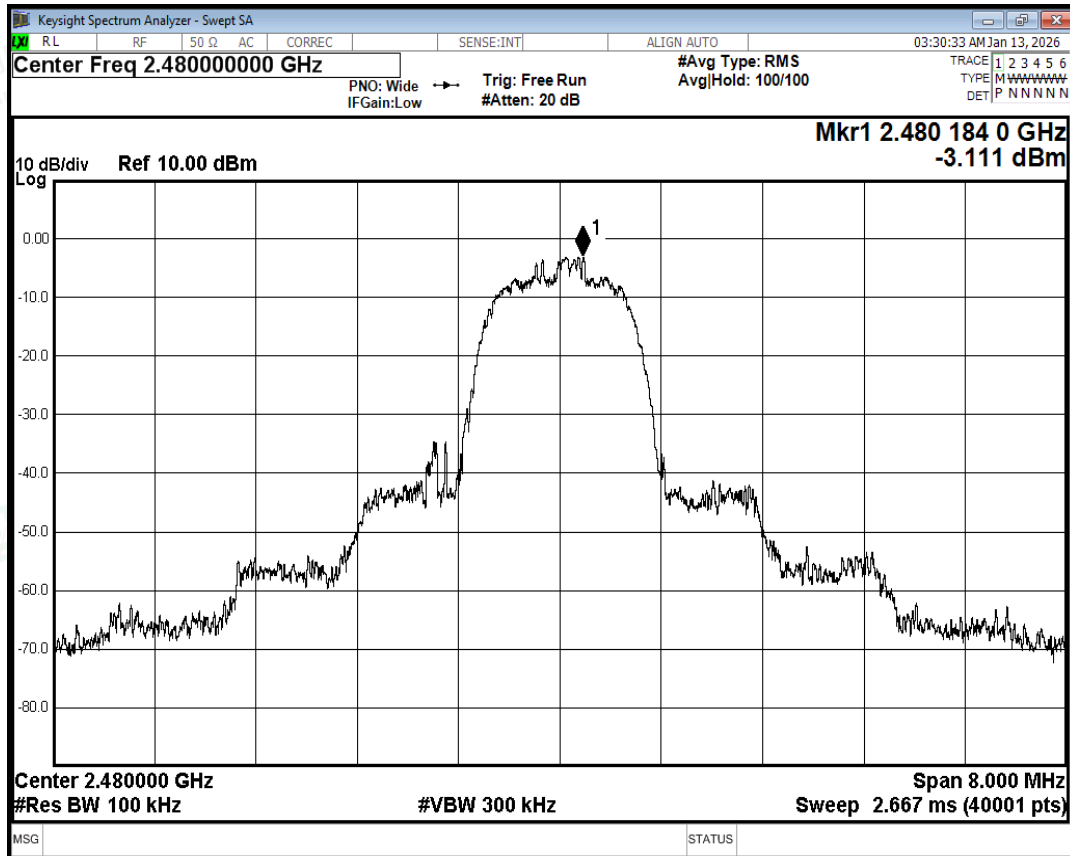


Shenzhen LCS Compliance Testing Laboratory Ltd.

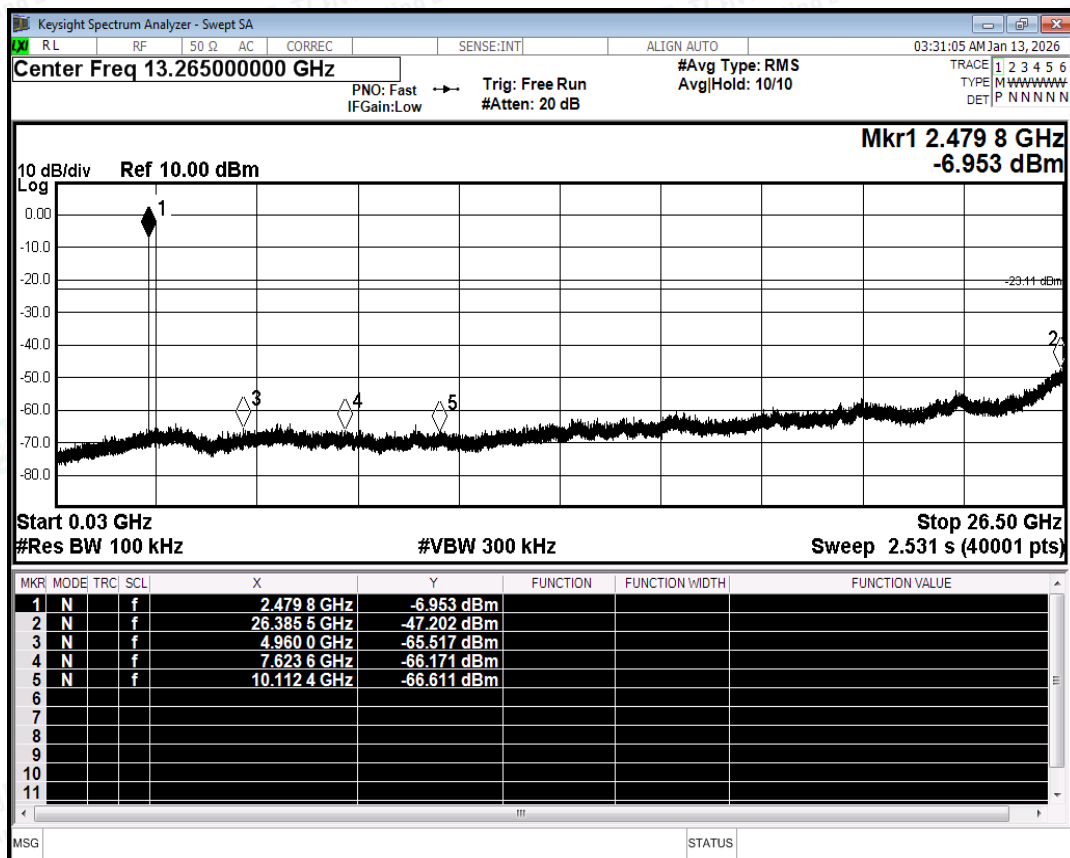
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

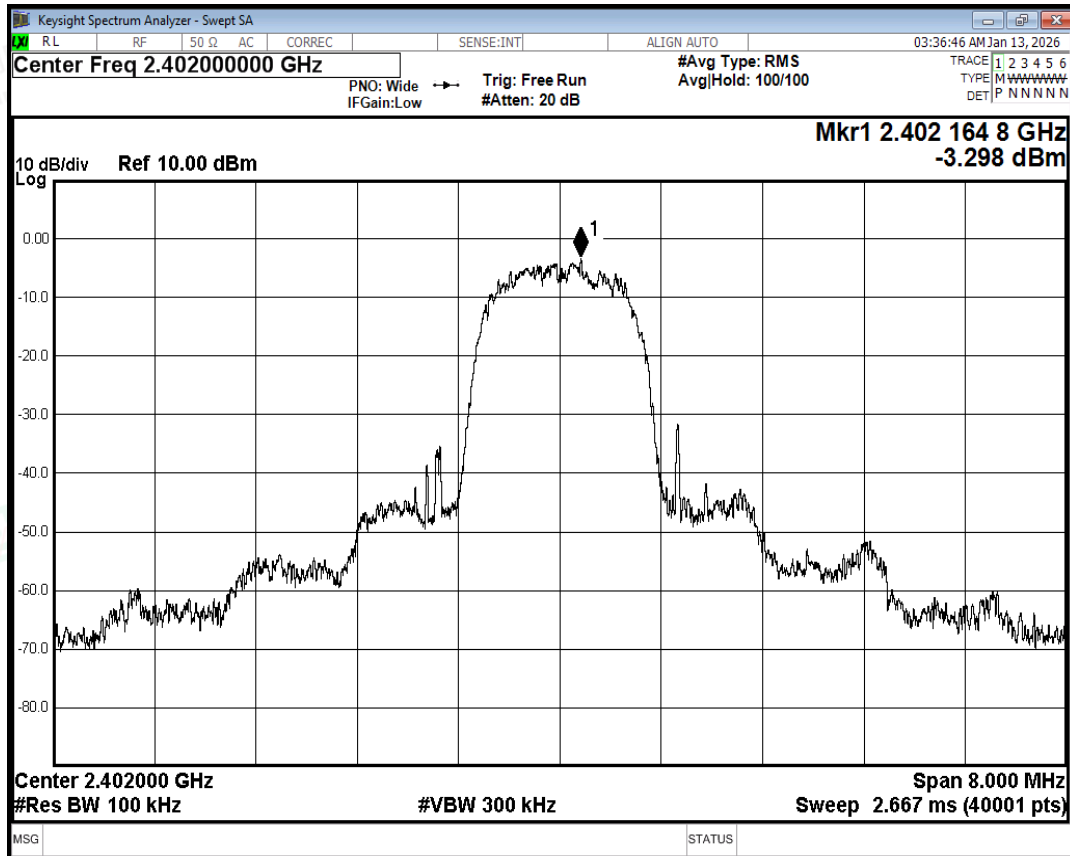


Shenzhen LCS Compliance Testing Laboratory Ltd.

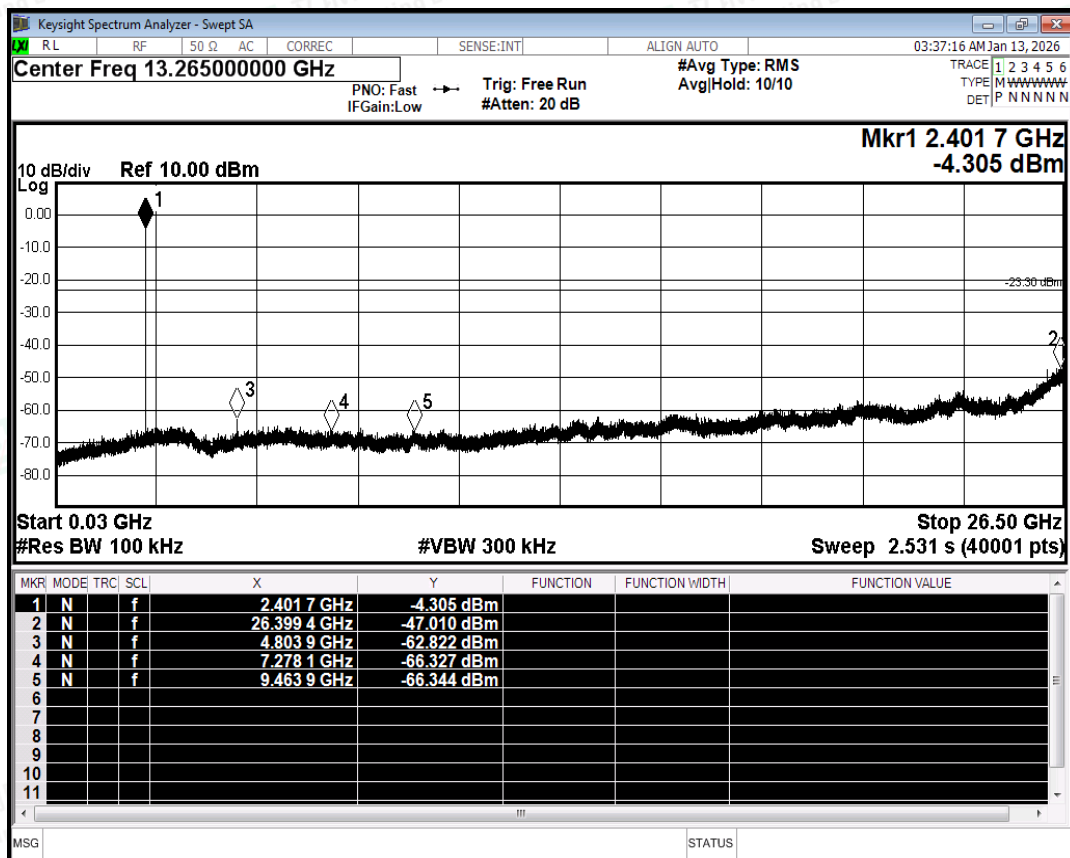
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

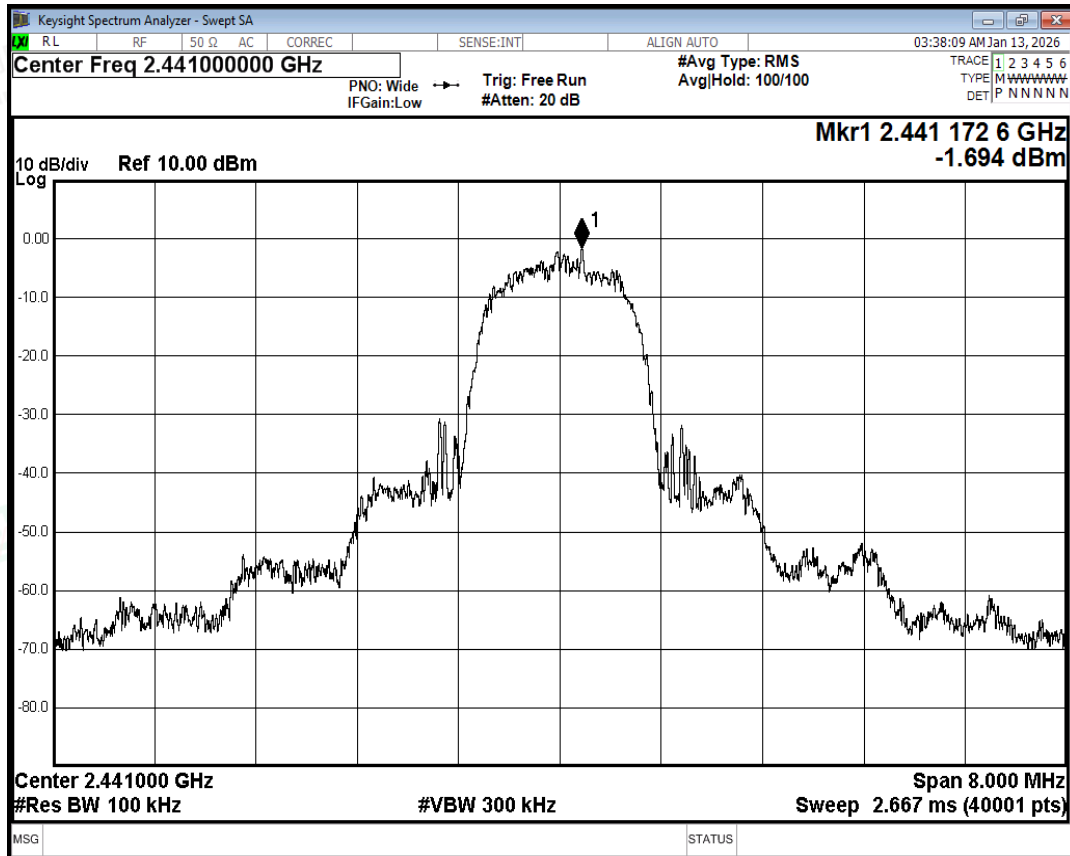


Shenzhen LCS Compliance Testing Laboratory Ltd.

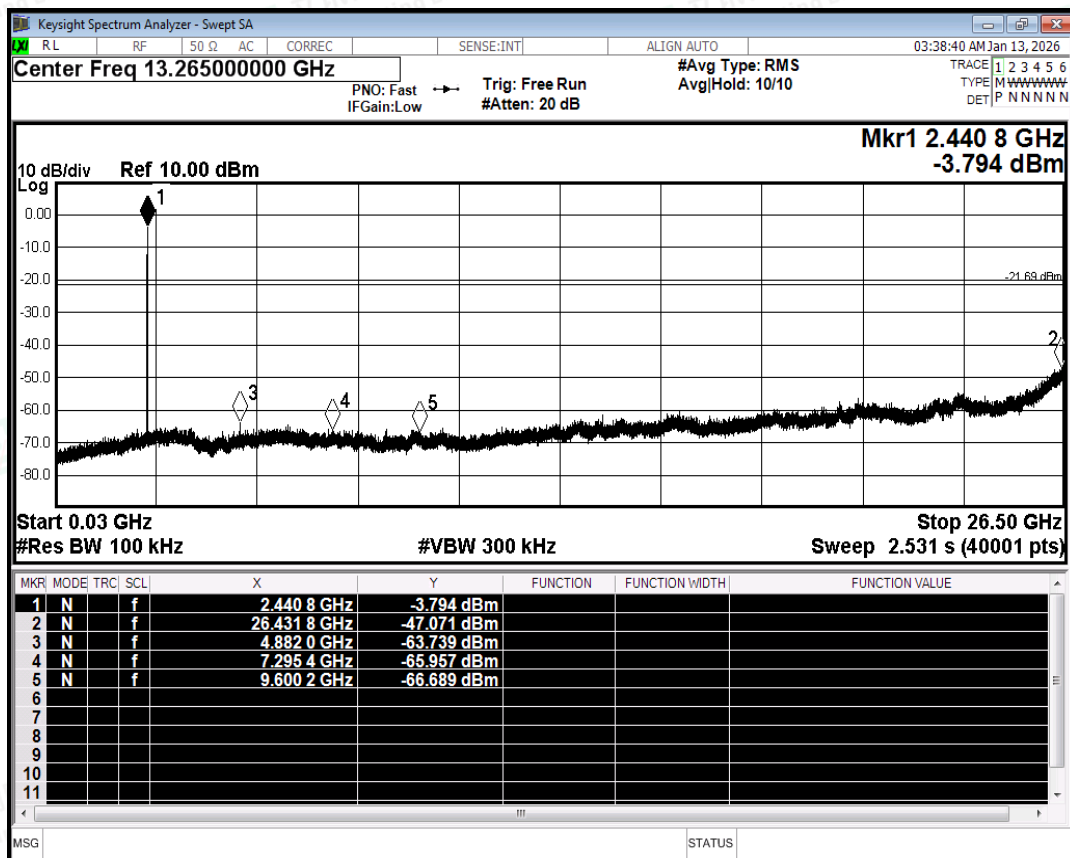
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

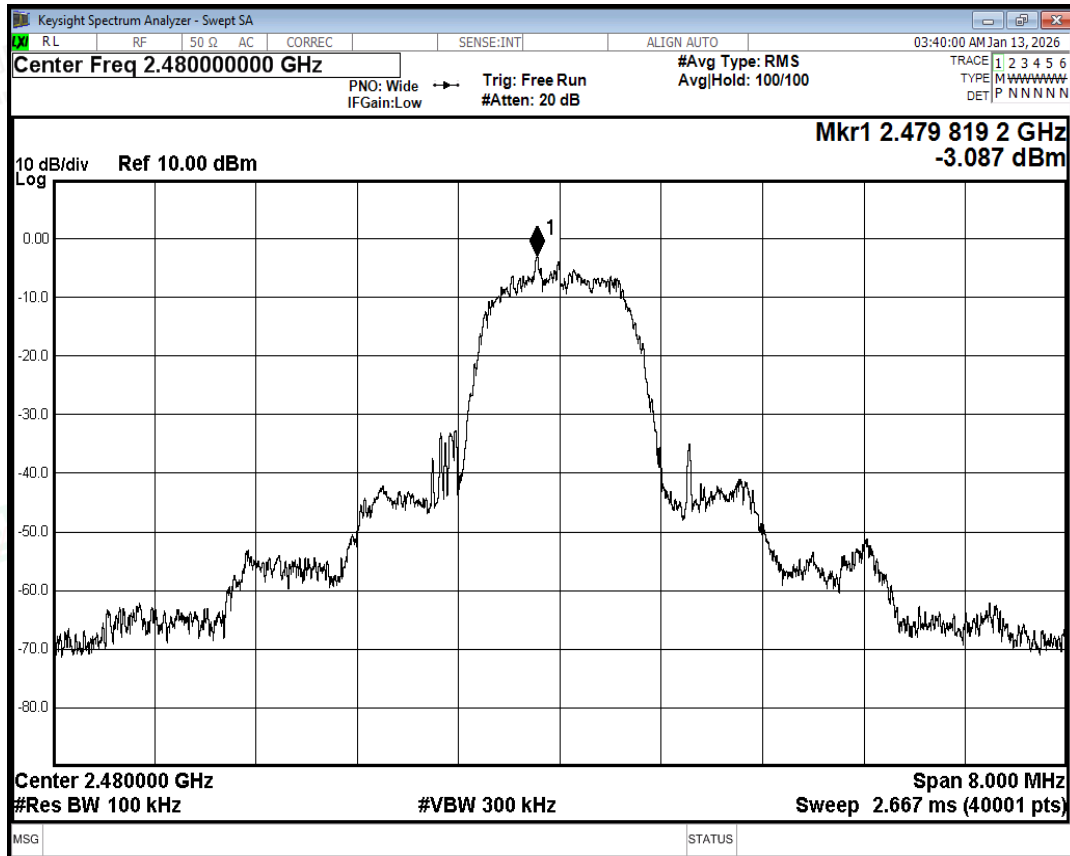


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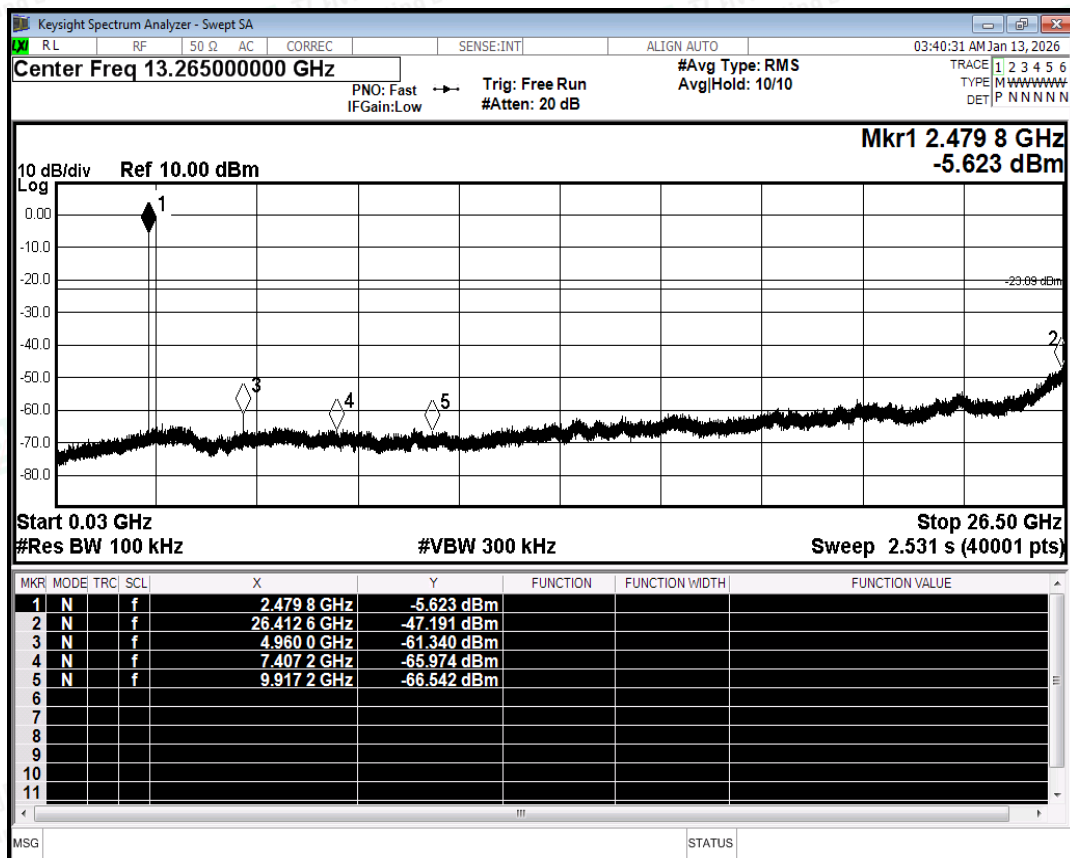
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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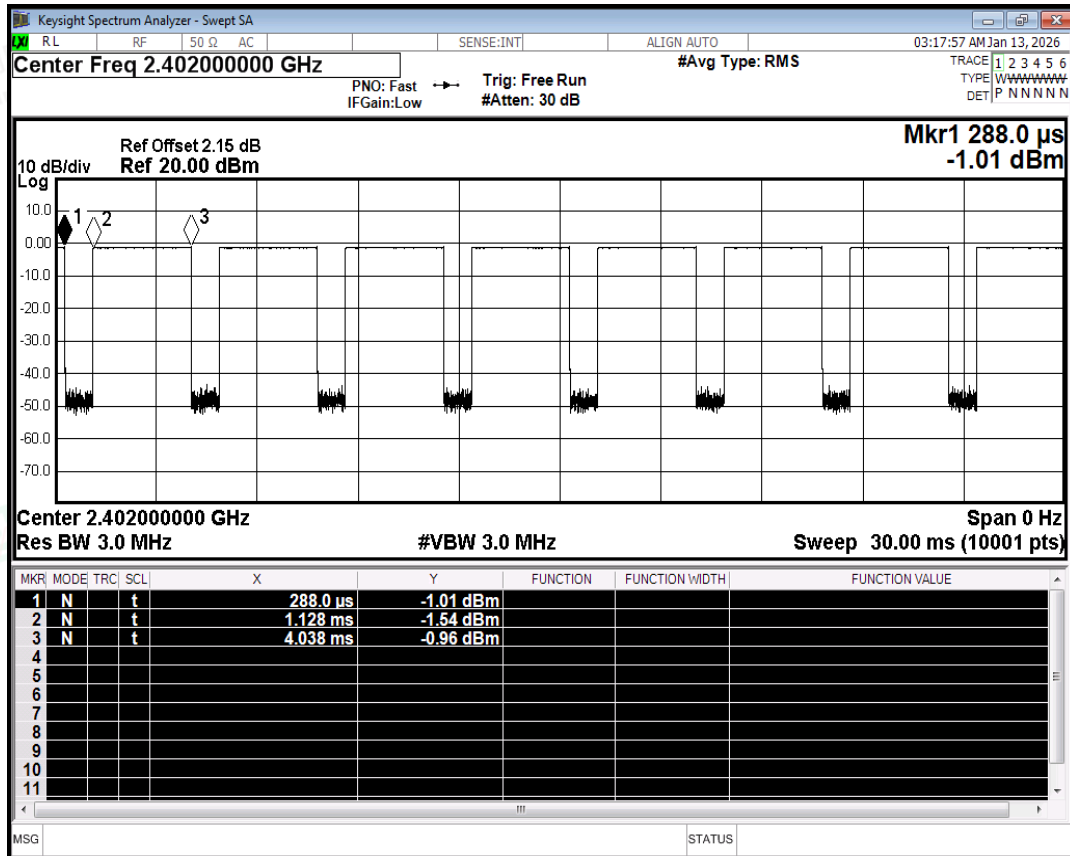
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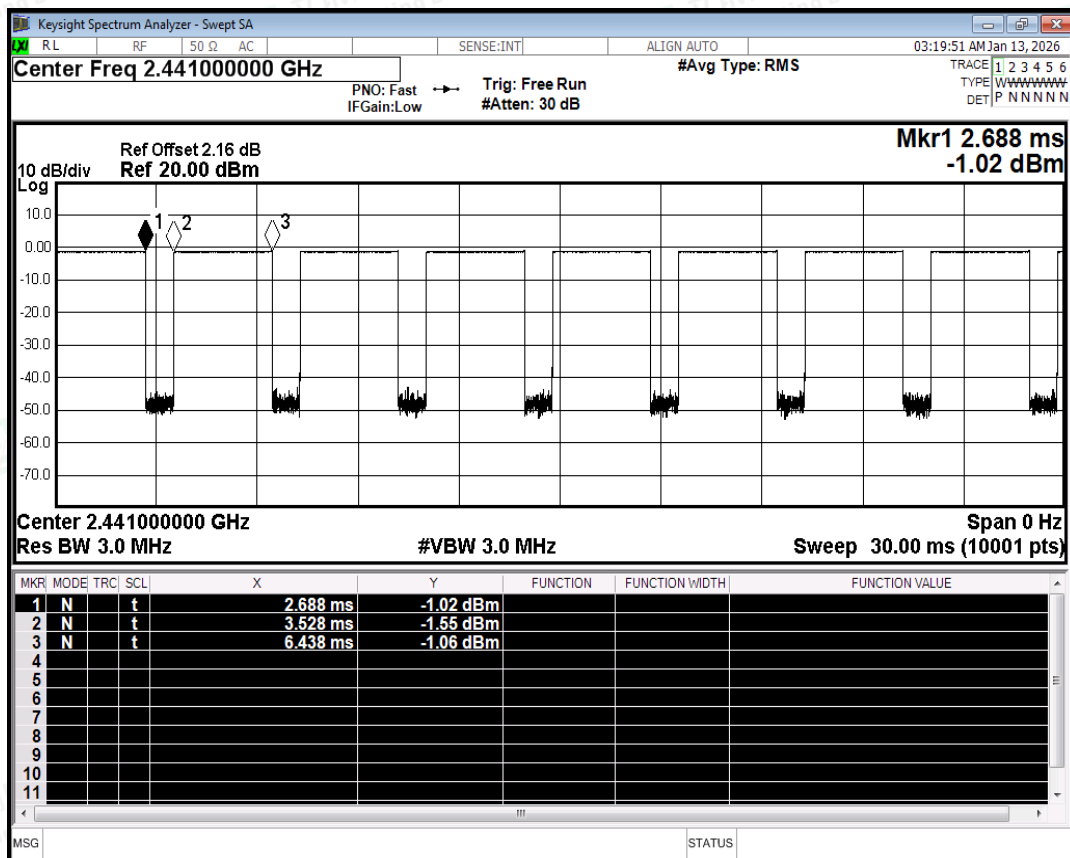
A.8 Duty Cycle

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	77.6	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	77.36	1.11	0.34
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35





Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

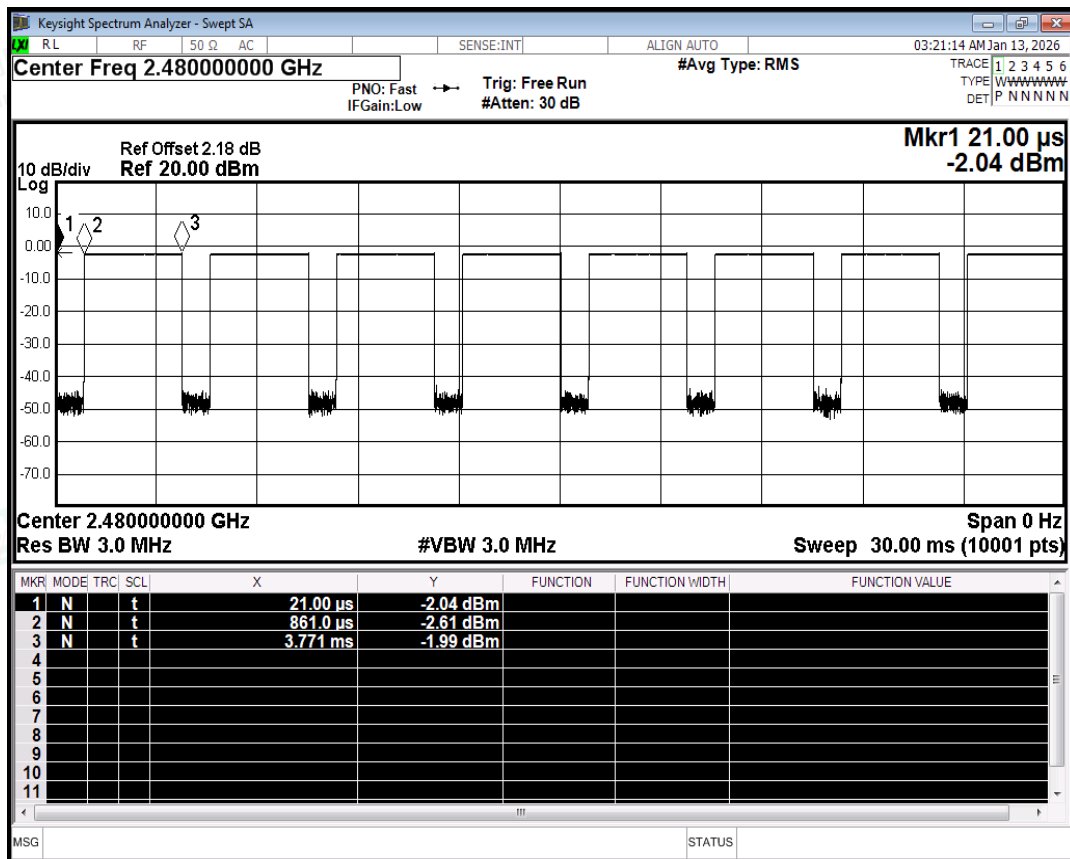


Shenzhen LCS Compliance Testing Laboratory Ltd.

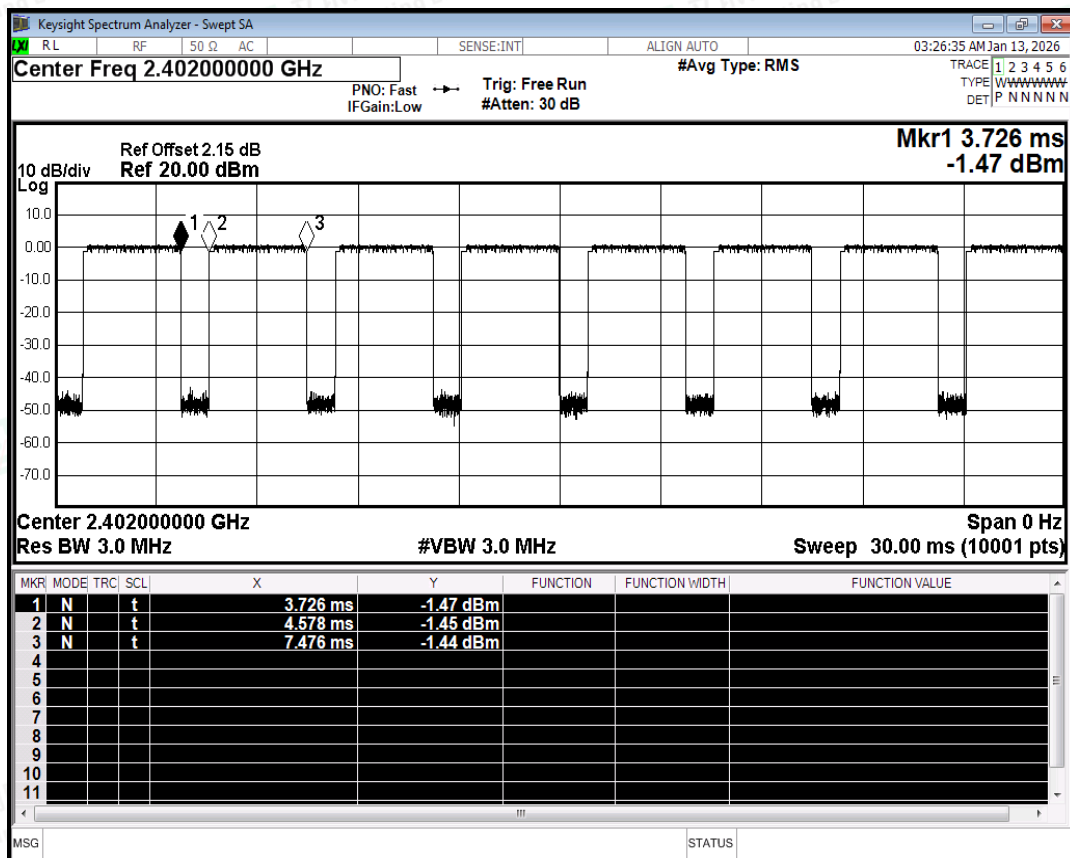
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1

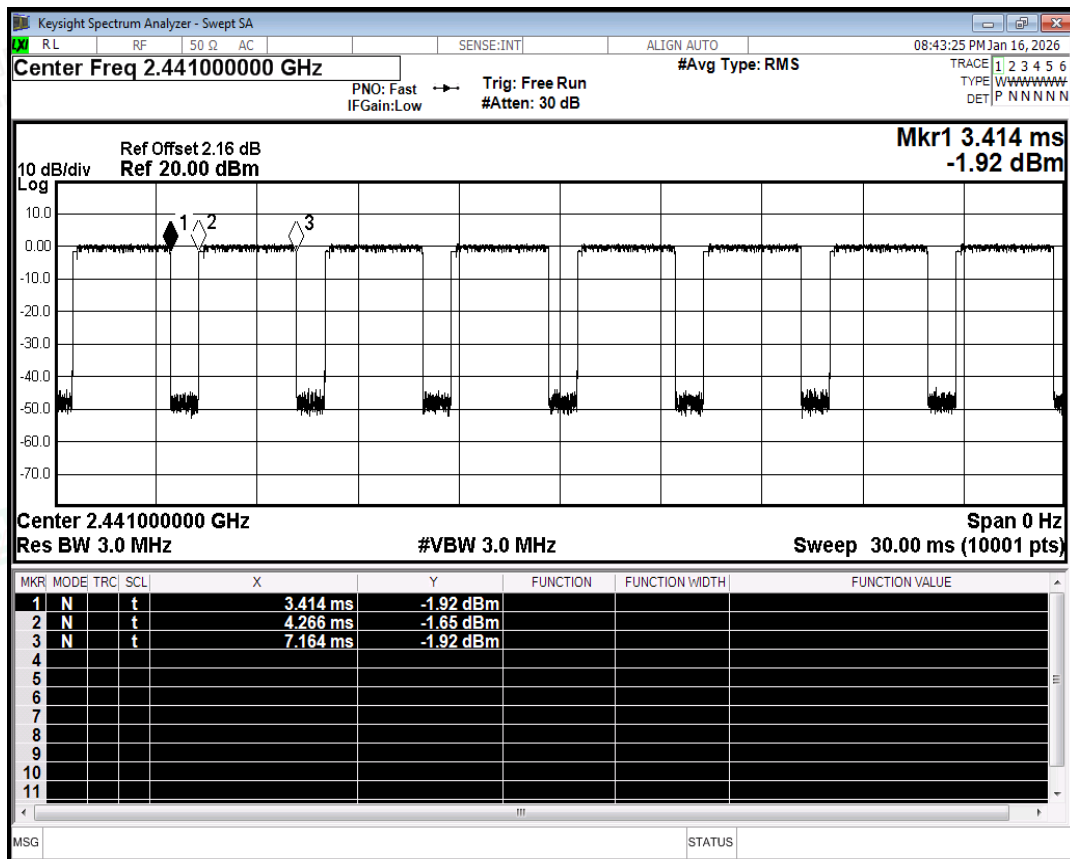


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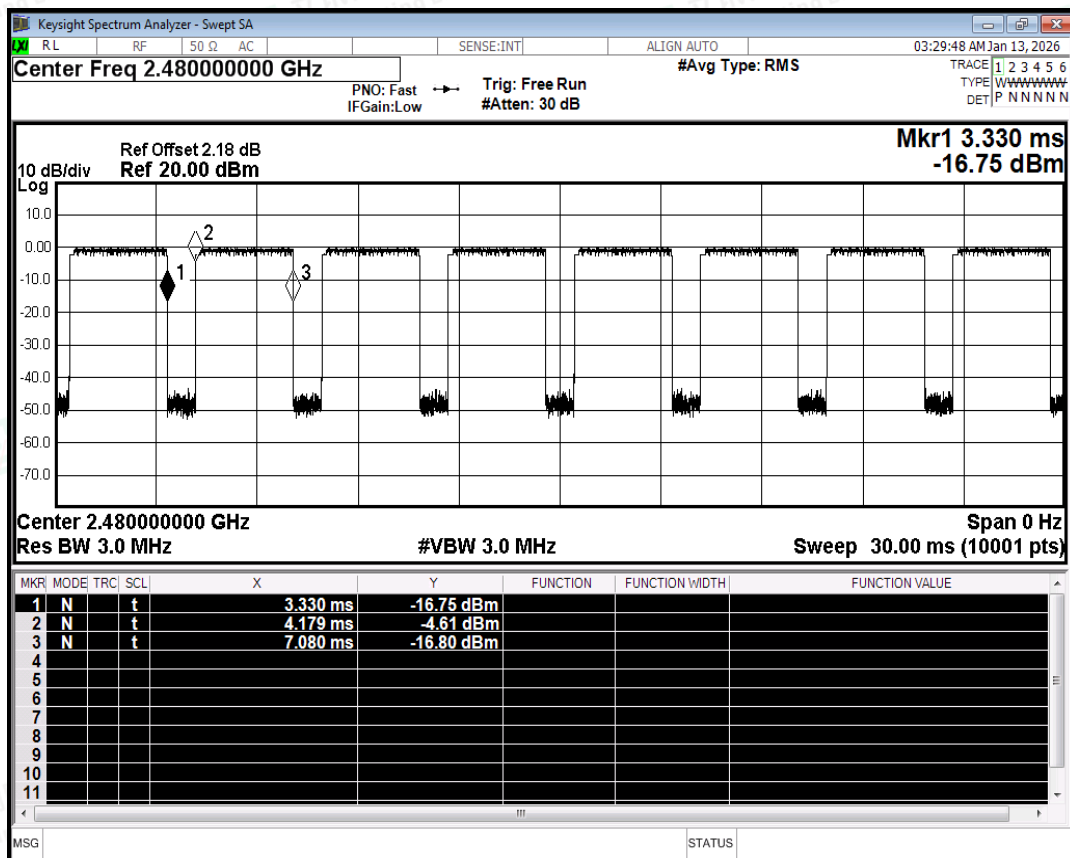
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1

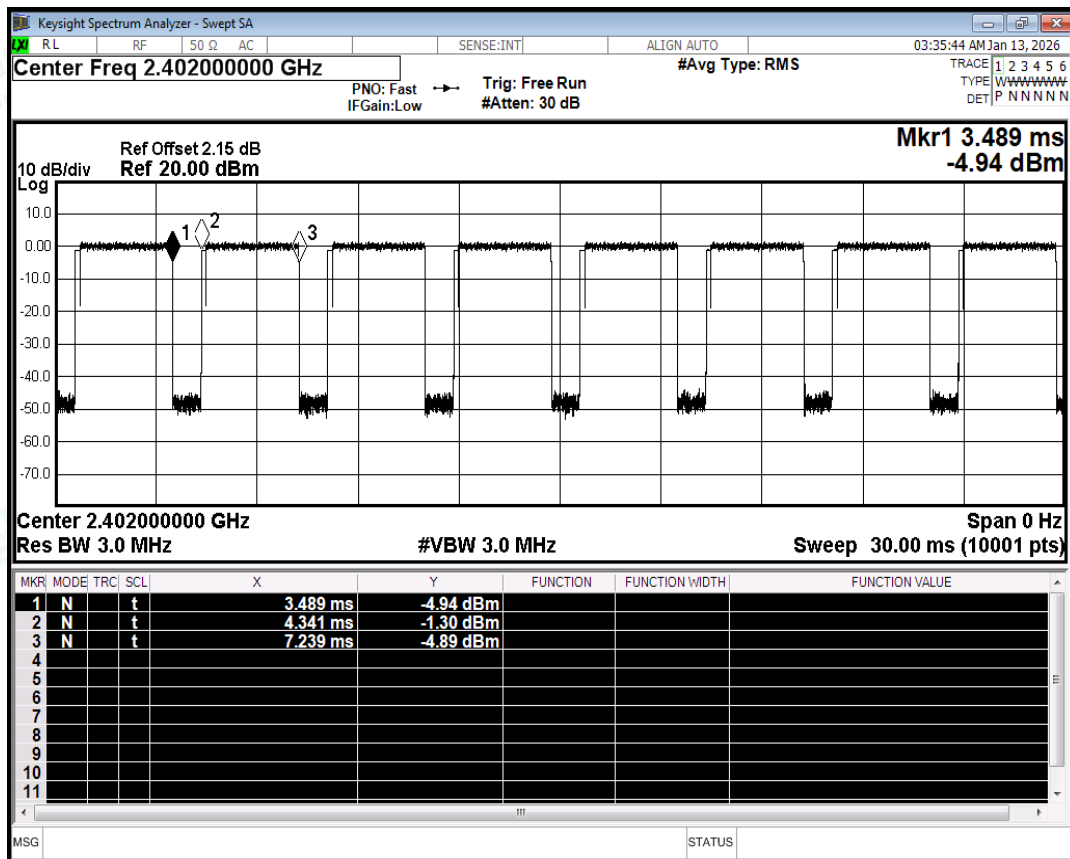


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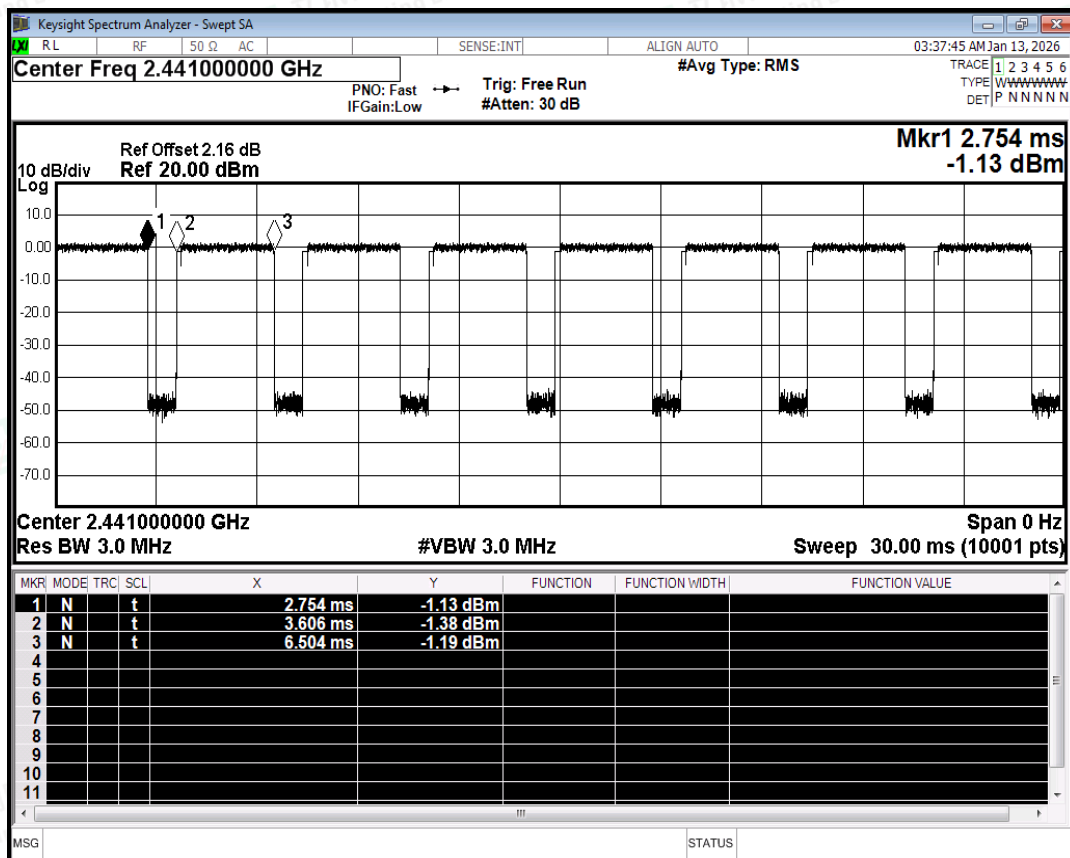
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

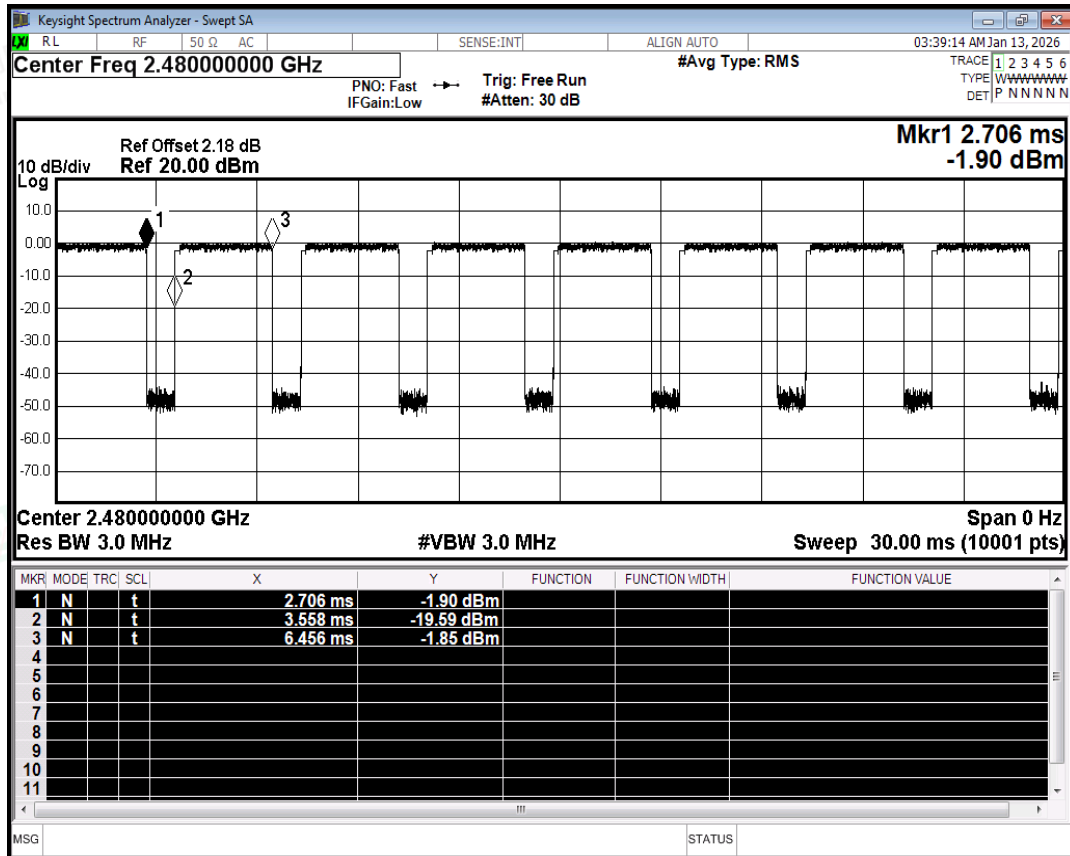


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Duty Cycle NVNT 3-DH5 2480MHz Ant1





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	Ant1	No-Hopping	2310	-50.11	2	47.15	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.52	2	39.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2355.888	-47.69	2	49.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2313.84	-57.42	2	39.84	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.78	2	46.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.62	2	39.64	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.16	2	49.1	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.4	2	40.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.248	-46.49	2	50.77	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.4	2	40.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.69	2	46.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.45	2	39.81	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.38	2	46.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.51	2	39.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2369.328	-47.37	2	49.89	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.536	-57.36	2	39.9	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.88	2	47.38	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.66	2	39.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.23	2	46.03	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.46	2	41.8	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.968	-47.04	2	50.22	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.46	2	41.8	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.68	2	47.58	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.51	2	39.75	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.81	2	47.45	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.62	2	39.64	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2370.48	-47.42	2	49.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2317.584	-57.4	2	39.86	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.87	2	46.39	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.62	2	39.64	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.48	2	49.78	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.44	2	41.82	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488	-46.74	2	50.52	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.44	2	41.82	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.48	2	47.78	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.42	2	39.84	Average	54	Pass

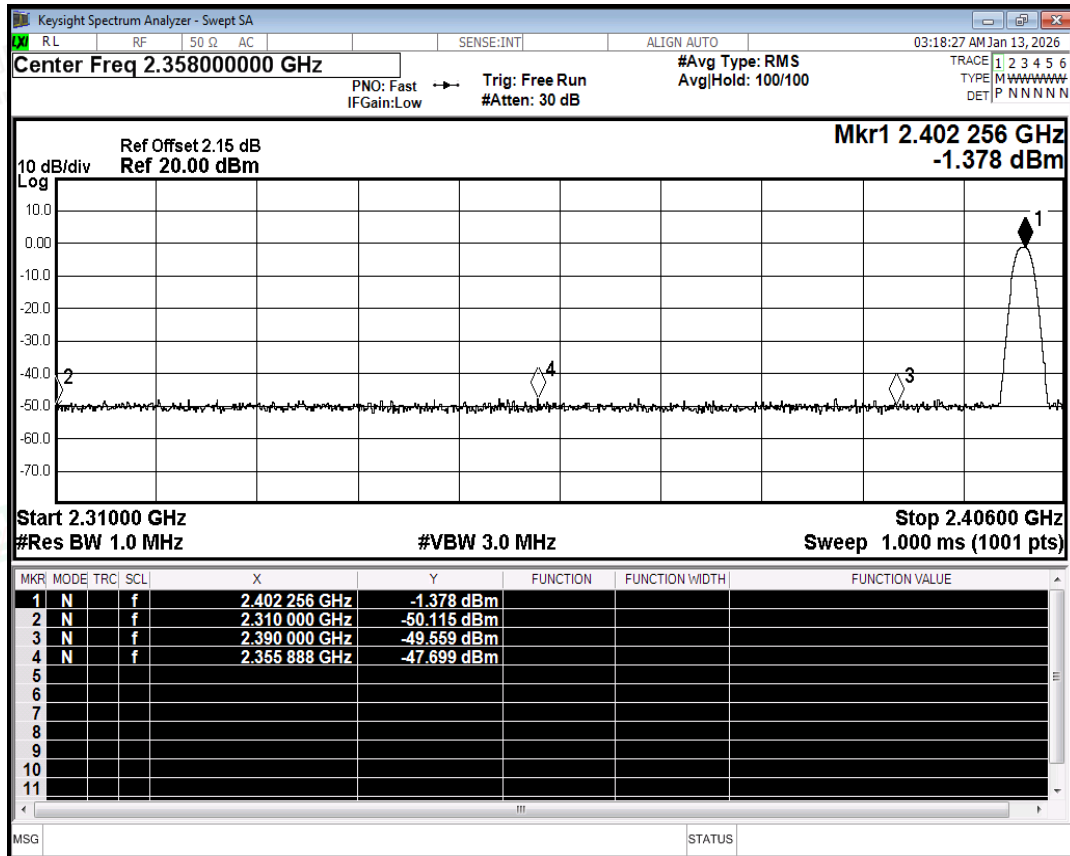


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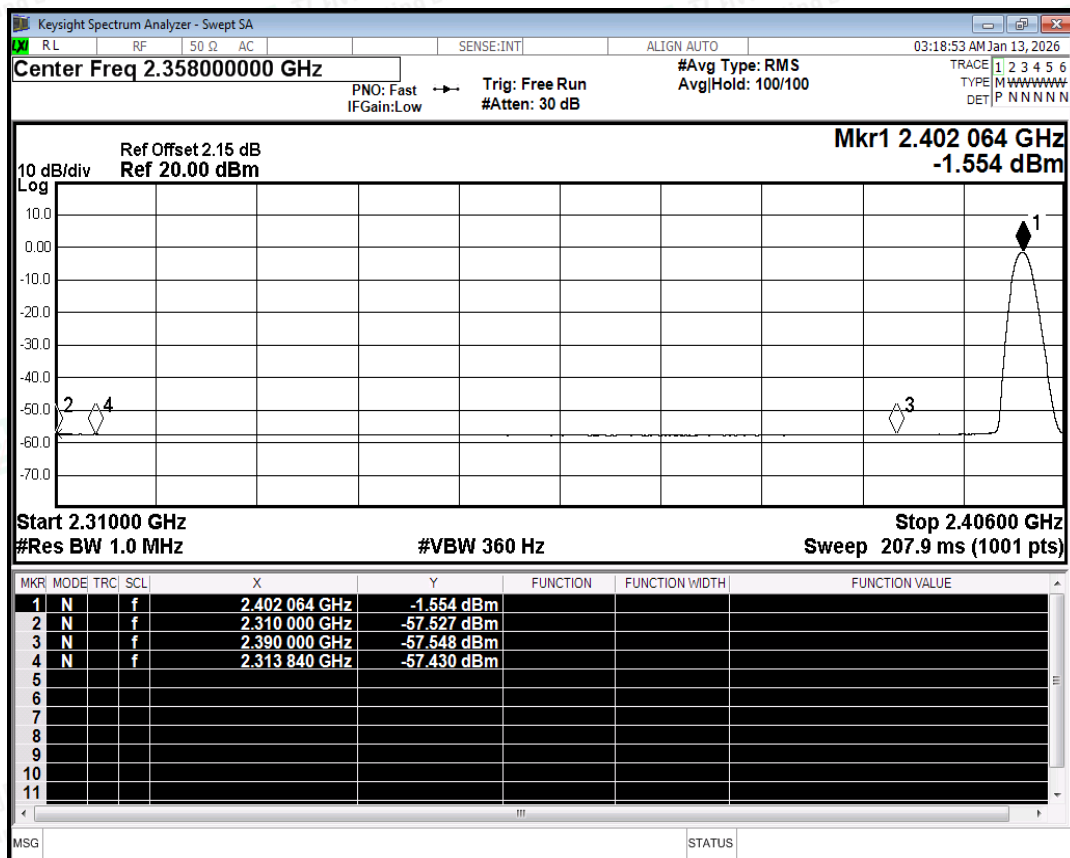
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Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

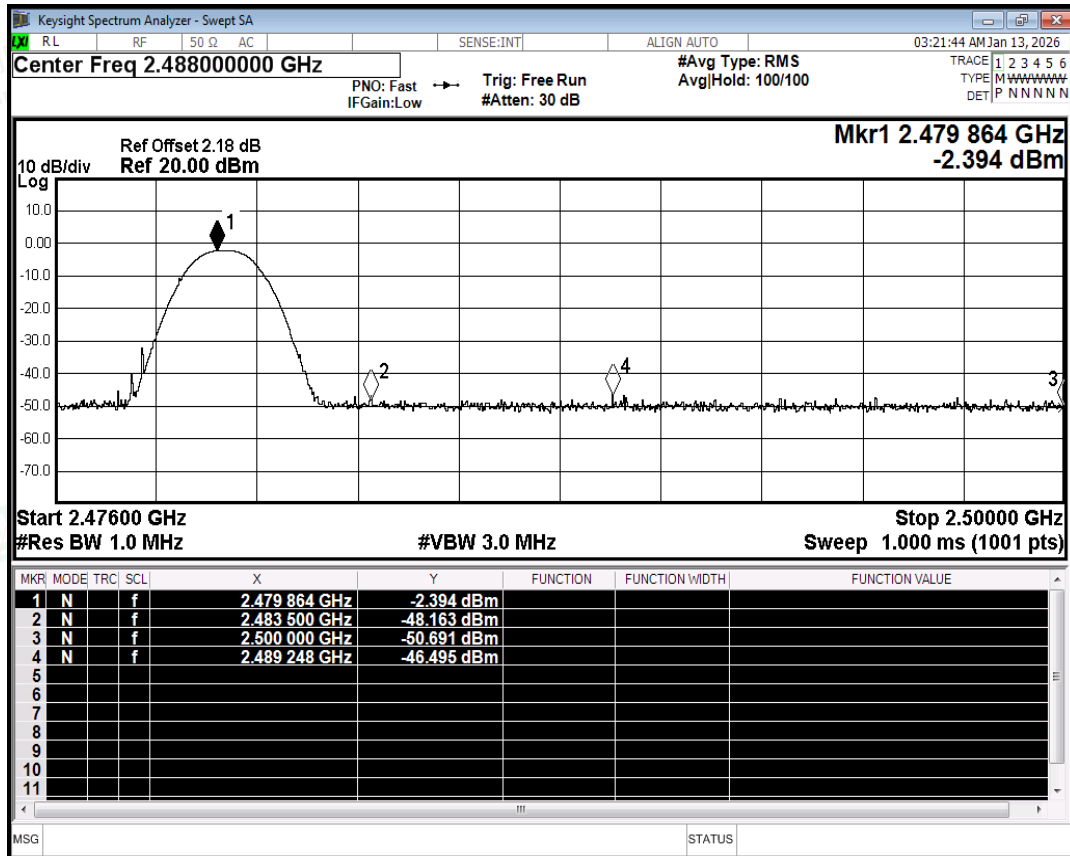


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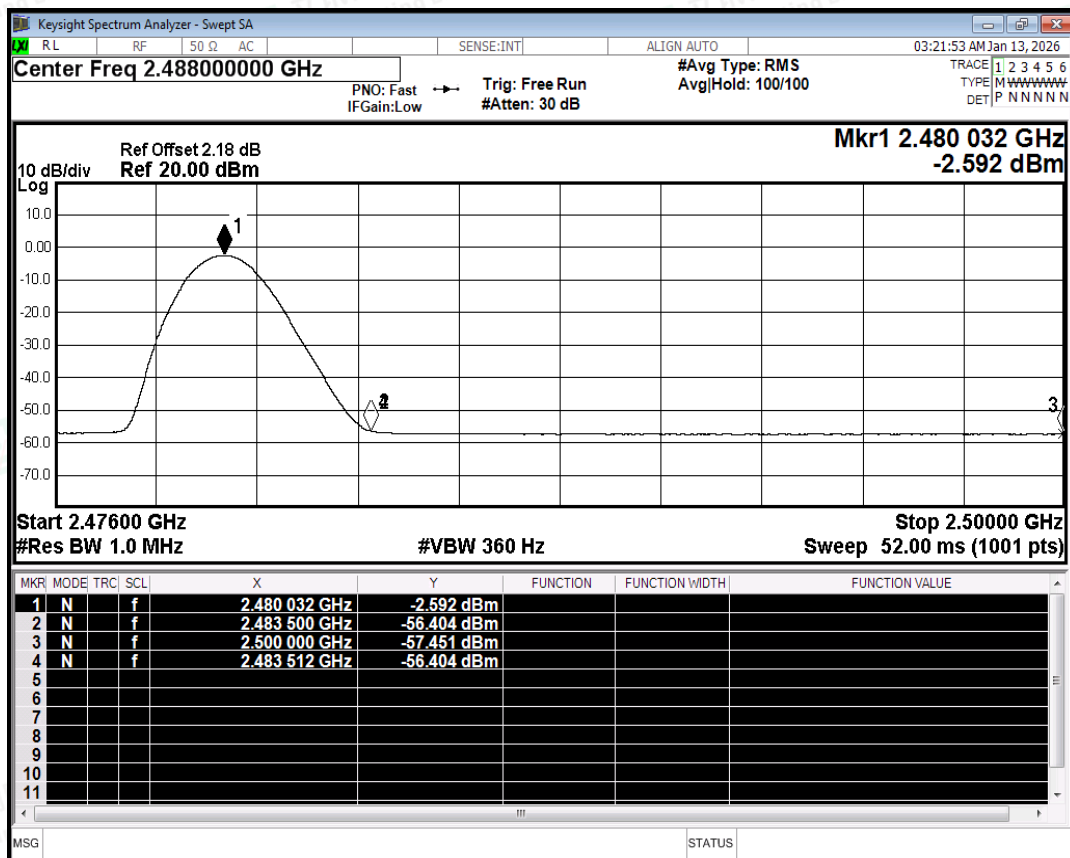
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

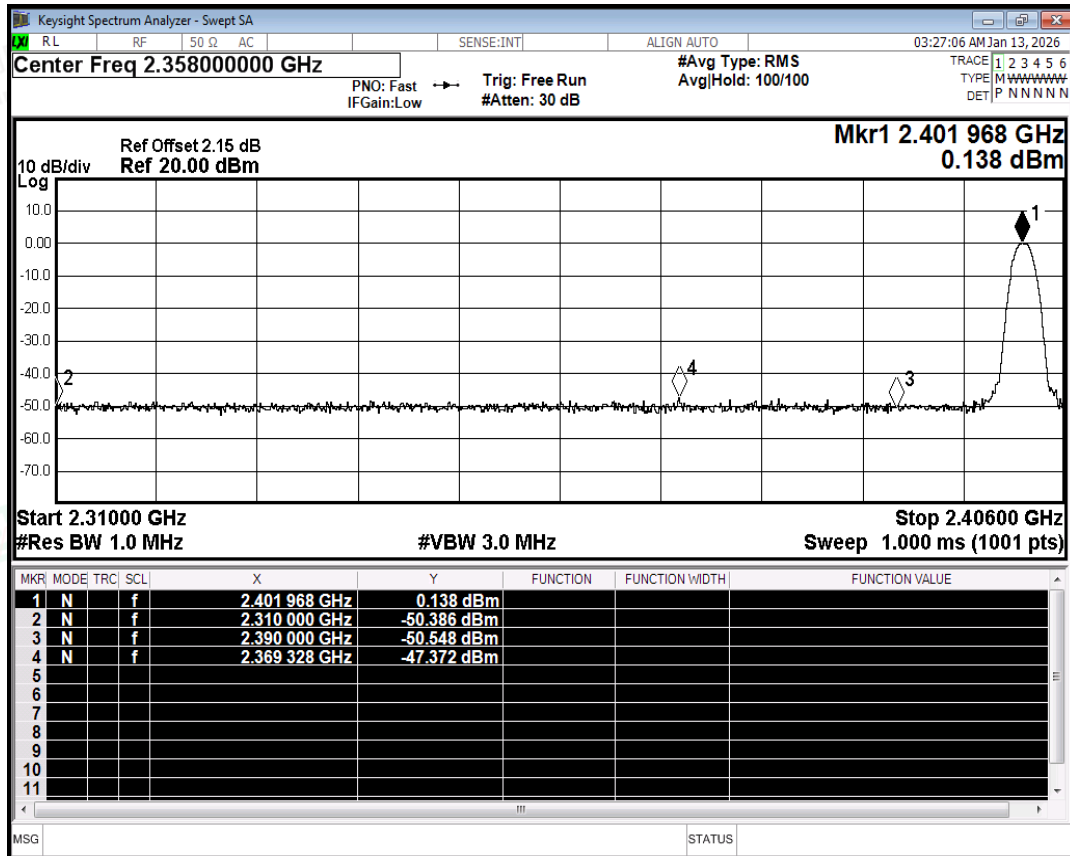


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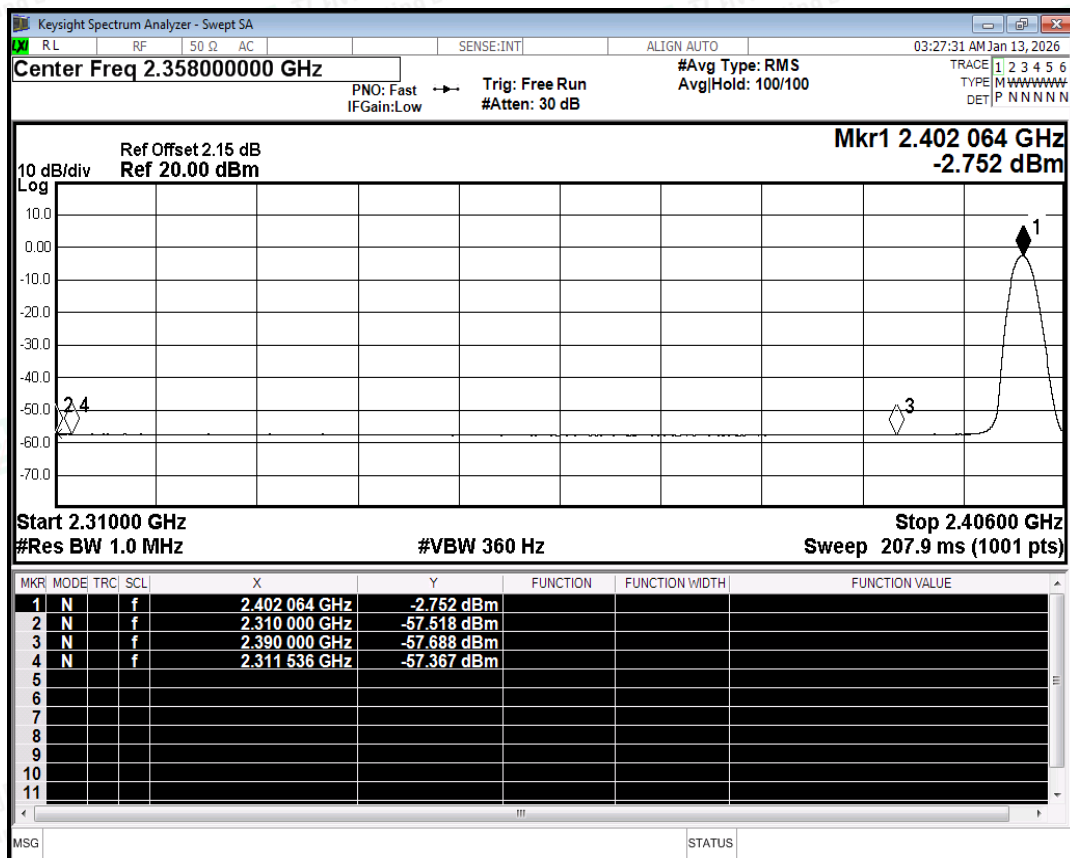
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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

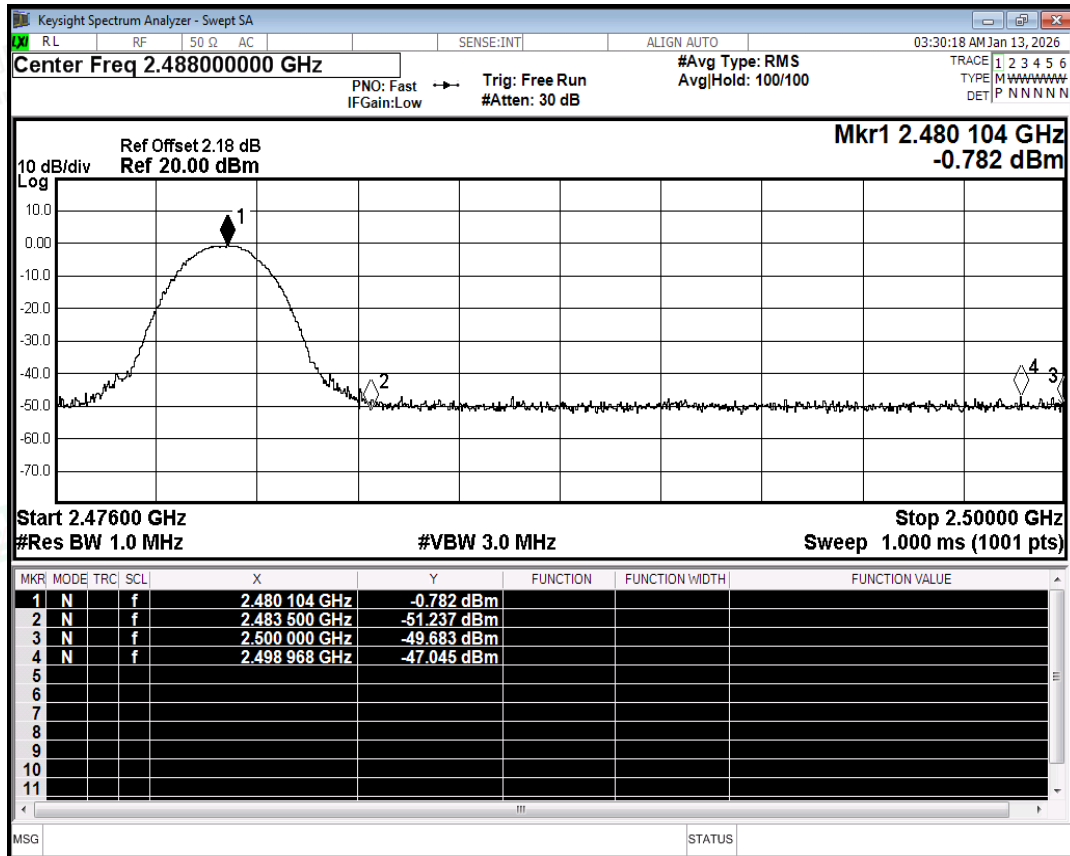


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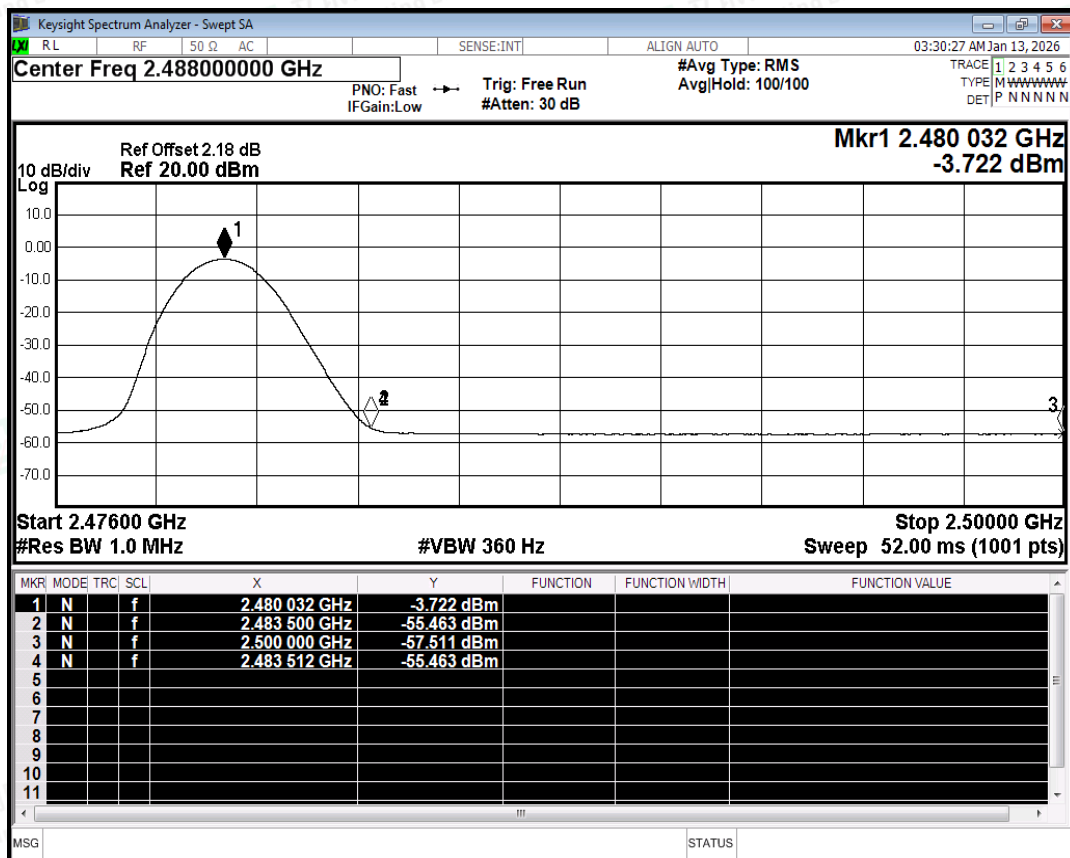
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

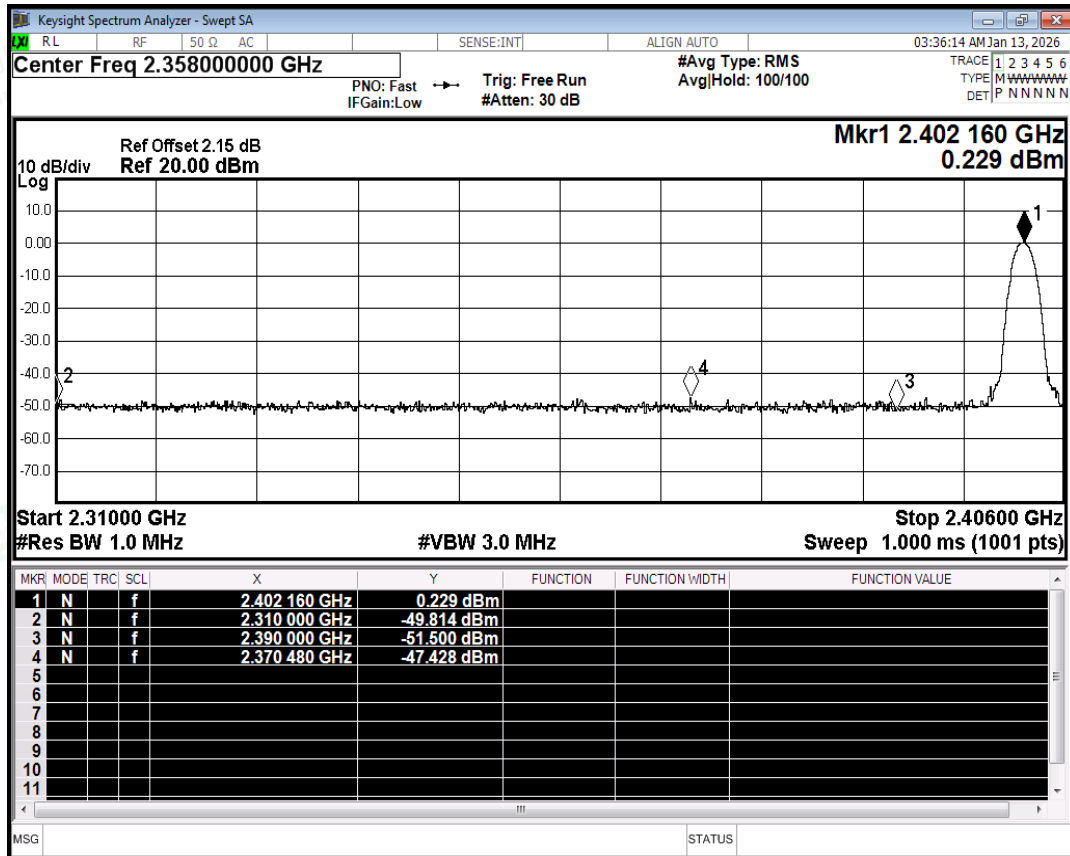


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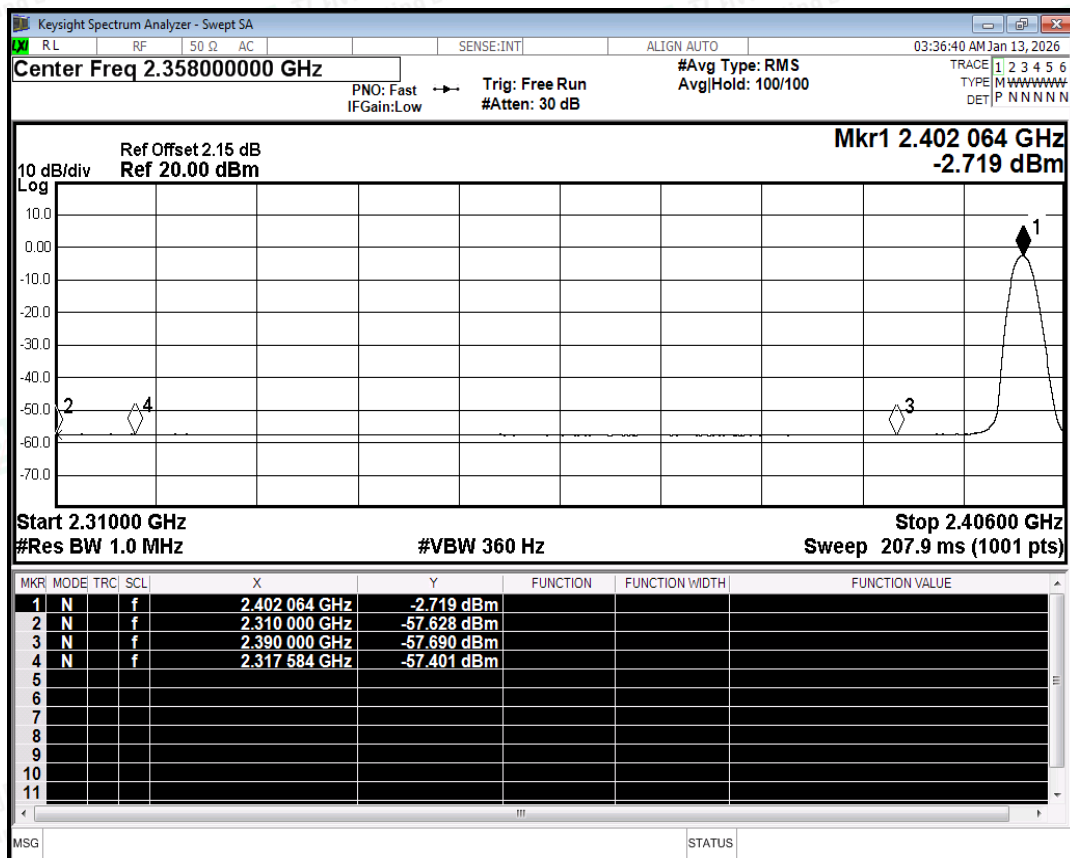
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

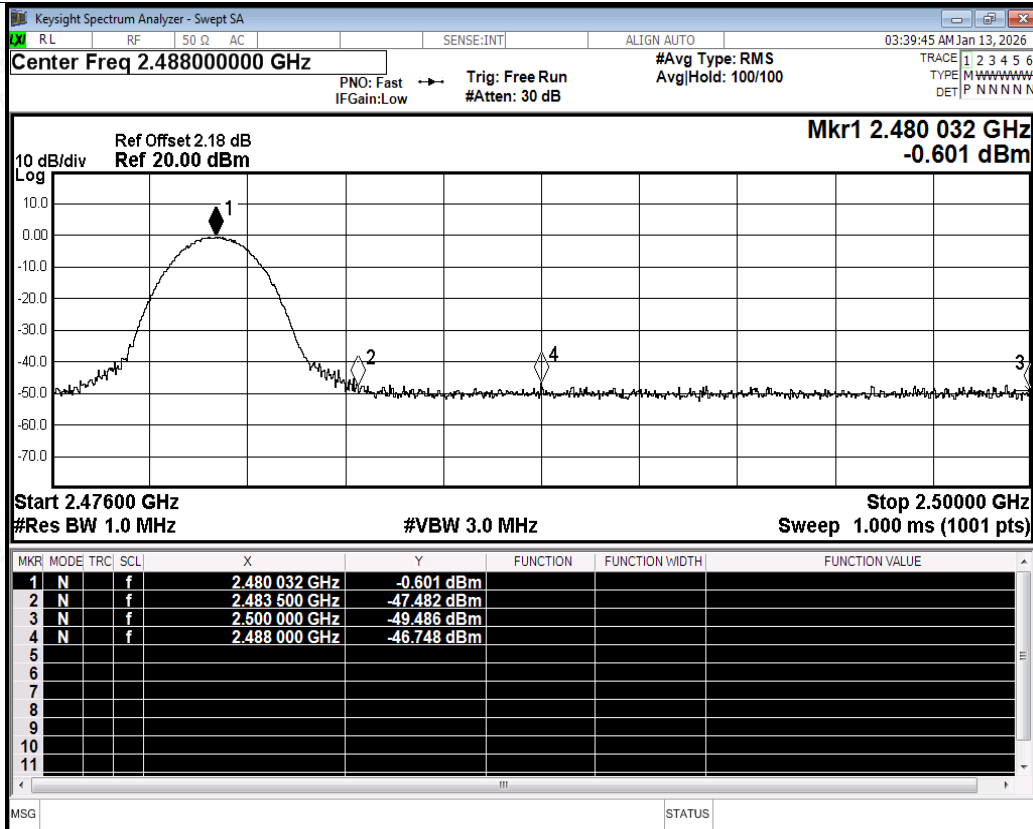


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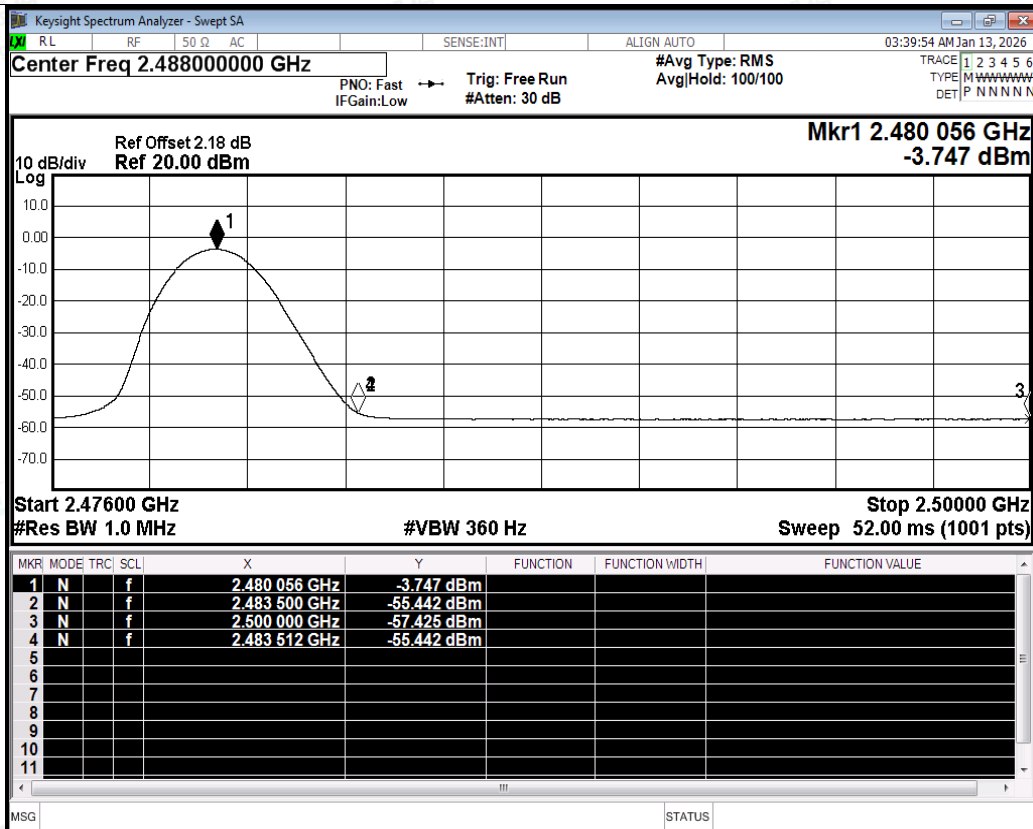
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



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