



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Bluetooth Radio

Test Model: Mini Olive

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	51.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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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	0.9289	0	Pass
NVNT	1-DH5	2441	Ant1	0.9241	0	Pass
NVNT	1-DH5	2480	Ant1	0.9312	0	Pass
NVNT	2-DH5	2402	Ant1	1.32	0	Pass
NVNT	2-DH5	2441	Ant1	1.315	0	Pass
NVNT	2-DH5	2480	Ant1	1.318	0	Pass
NVNT	3-DH5	2402	Ant1	1.283	0	Pass
NVNT	3-DH5	2441	Ant1	1.302	0	Pass
NVNT	3-DH5	2480	Ant1	1.296	0	Pass

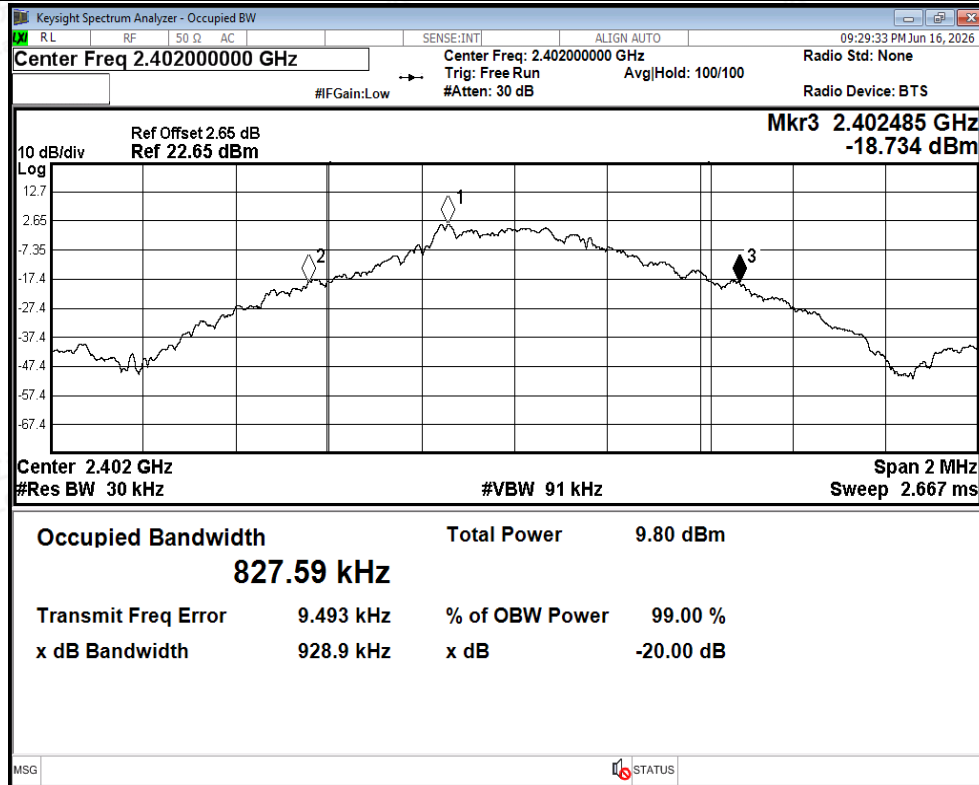


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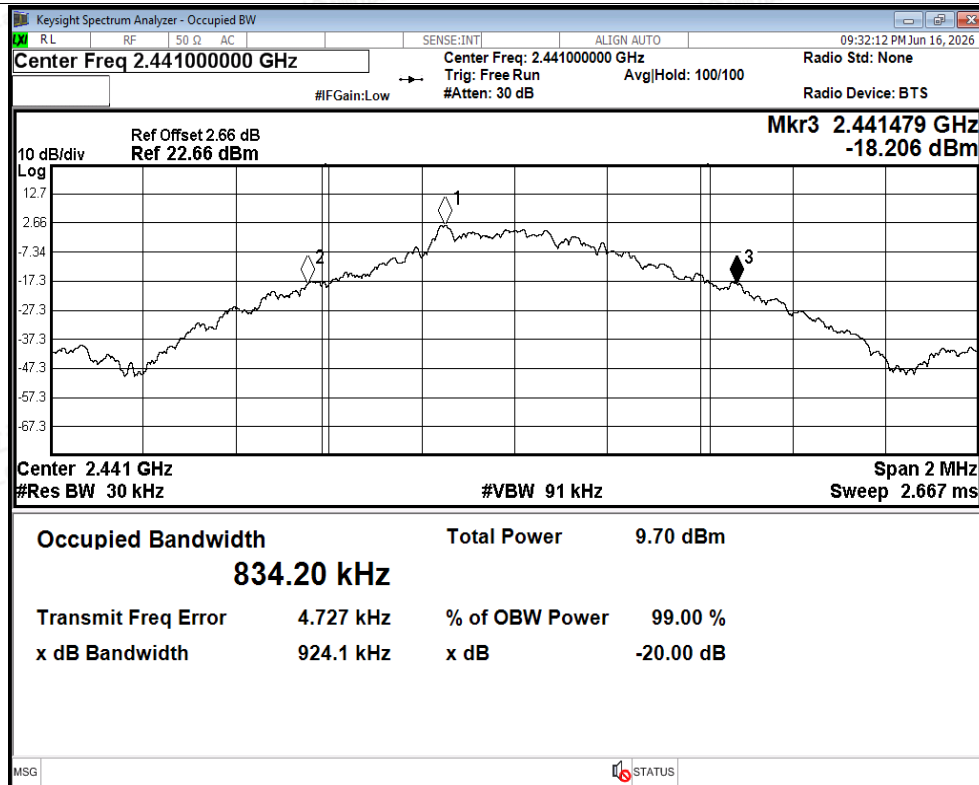
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-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

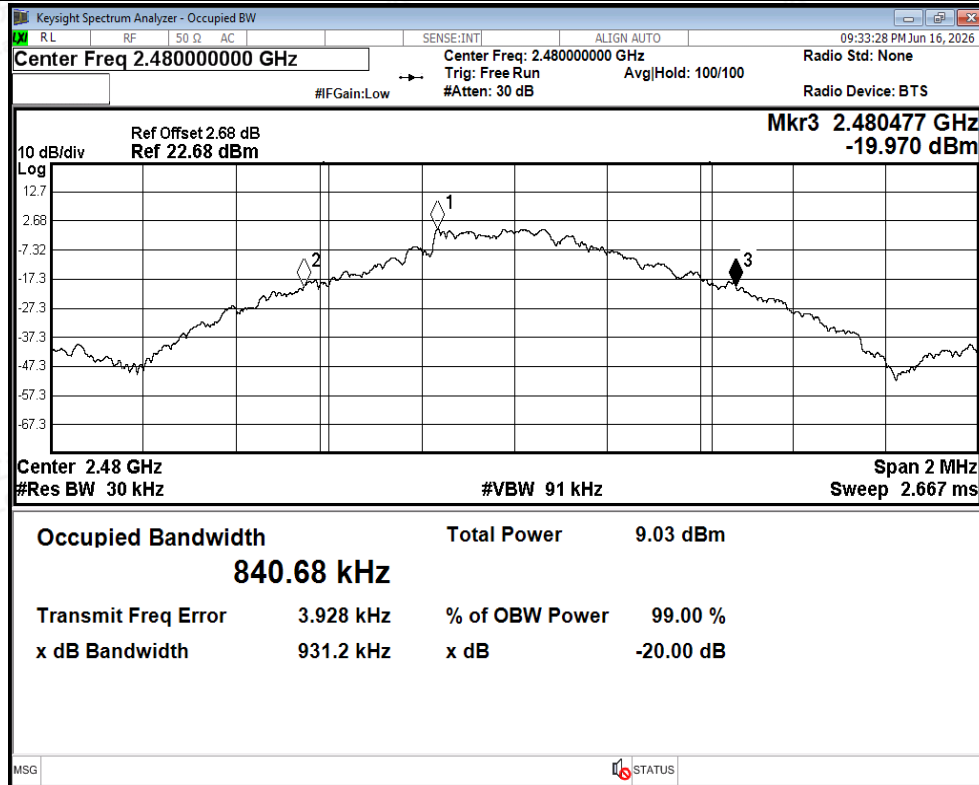


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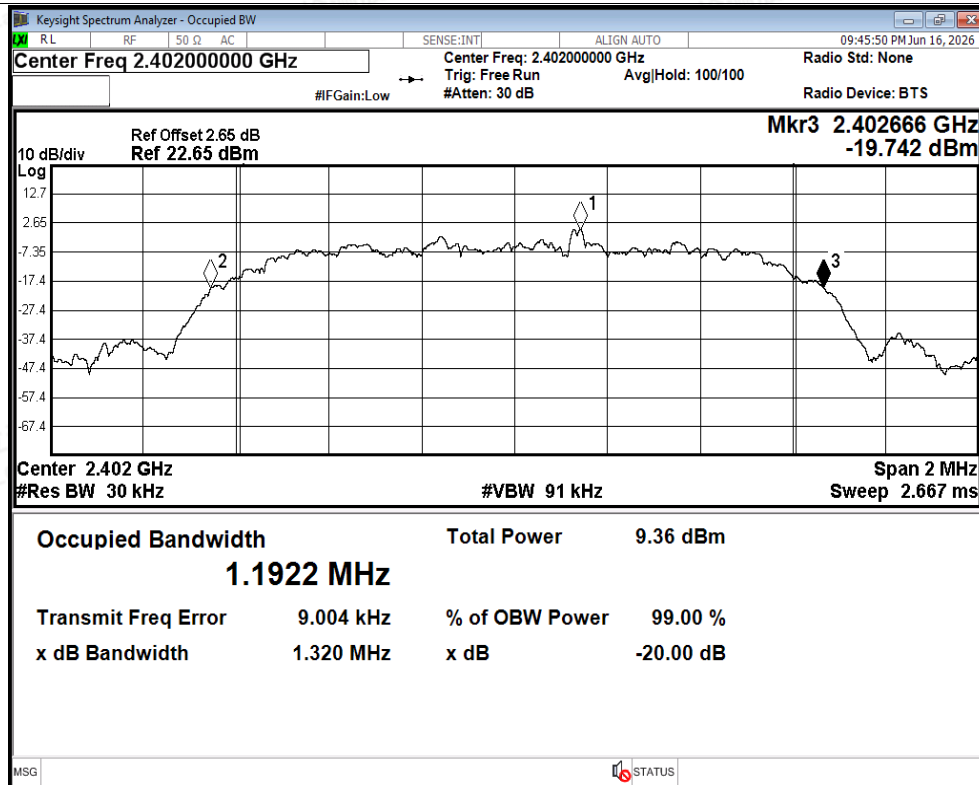
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

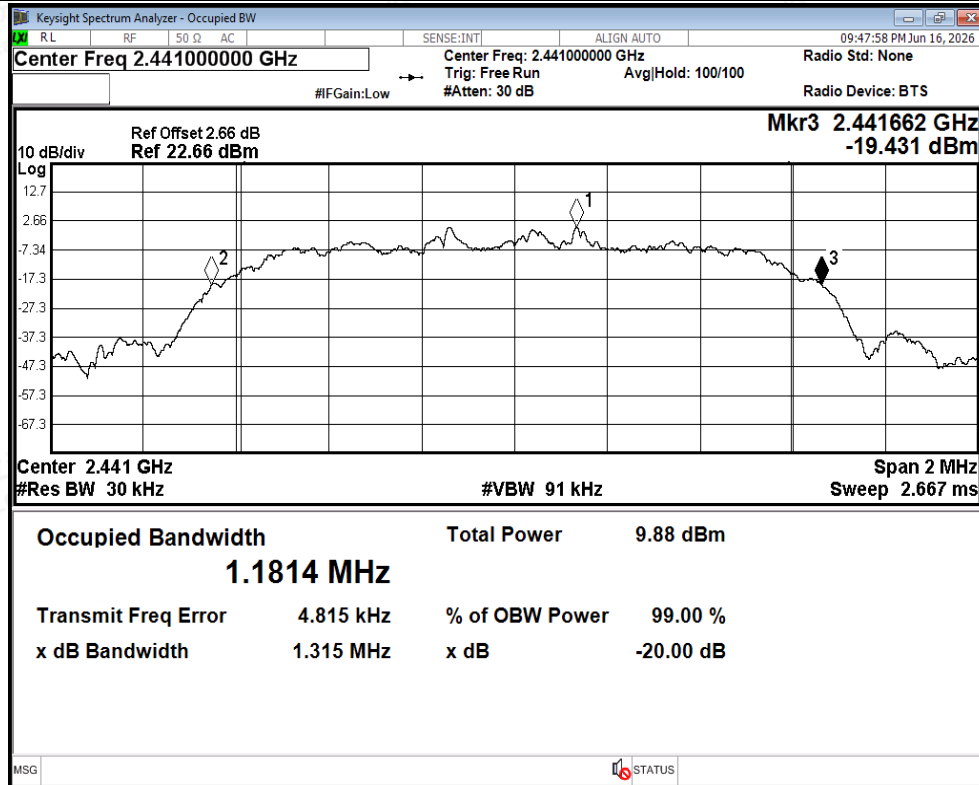


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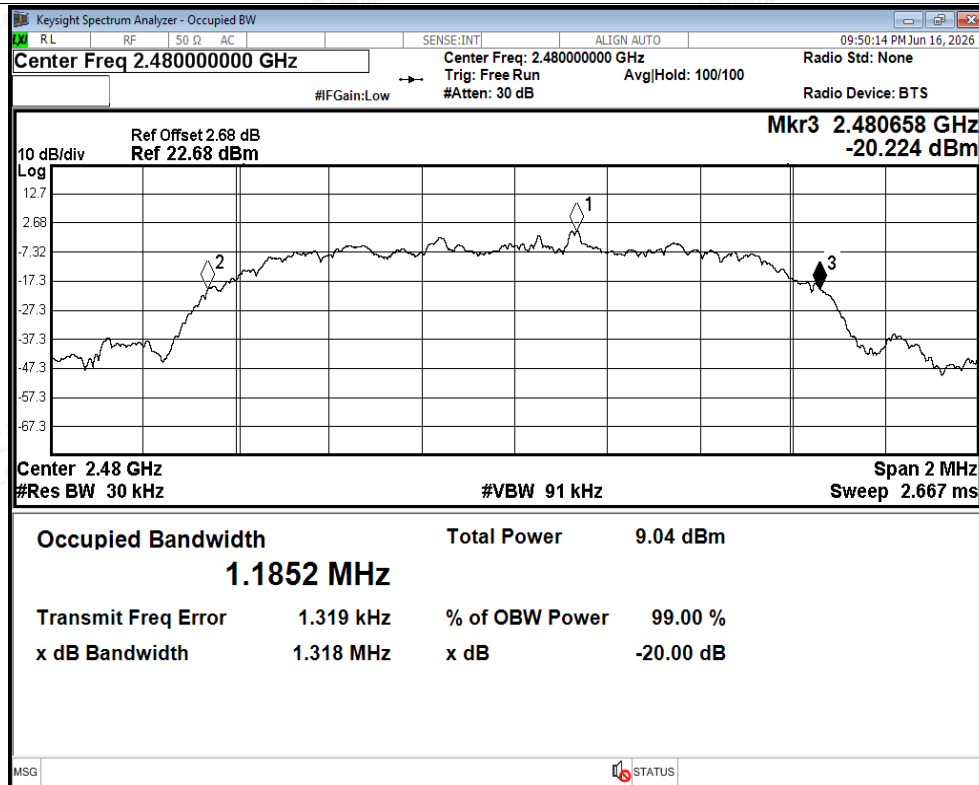
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

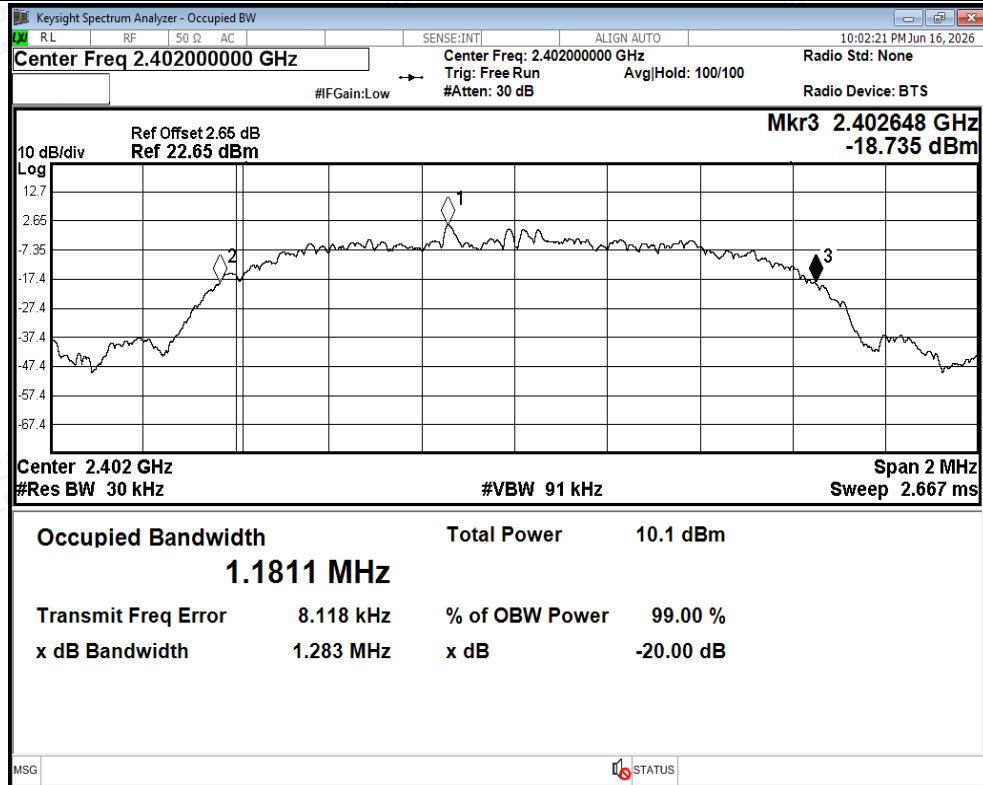


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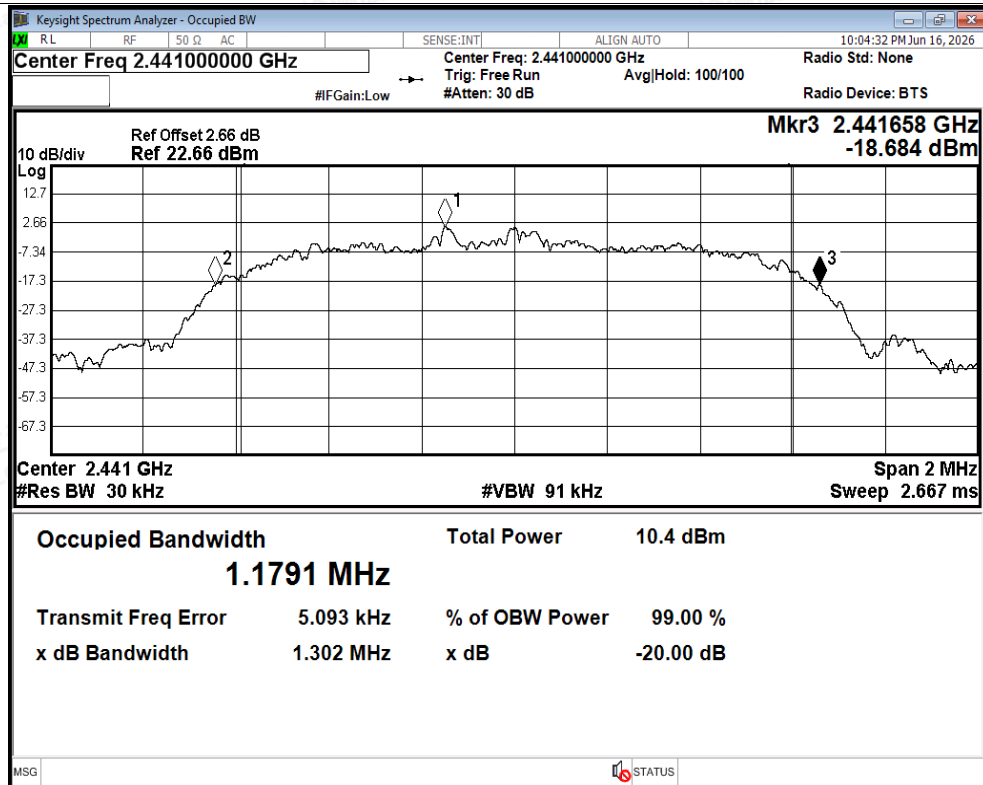
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

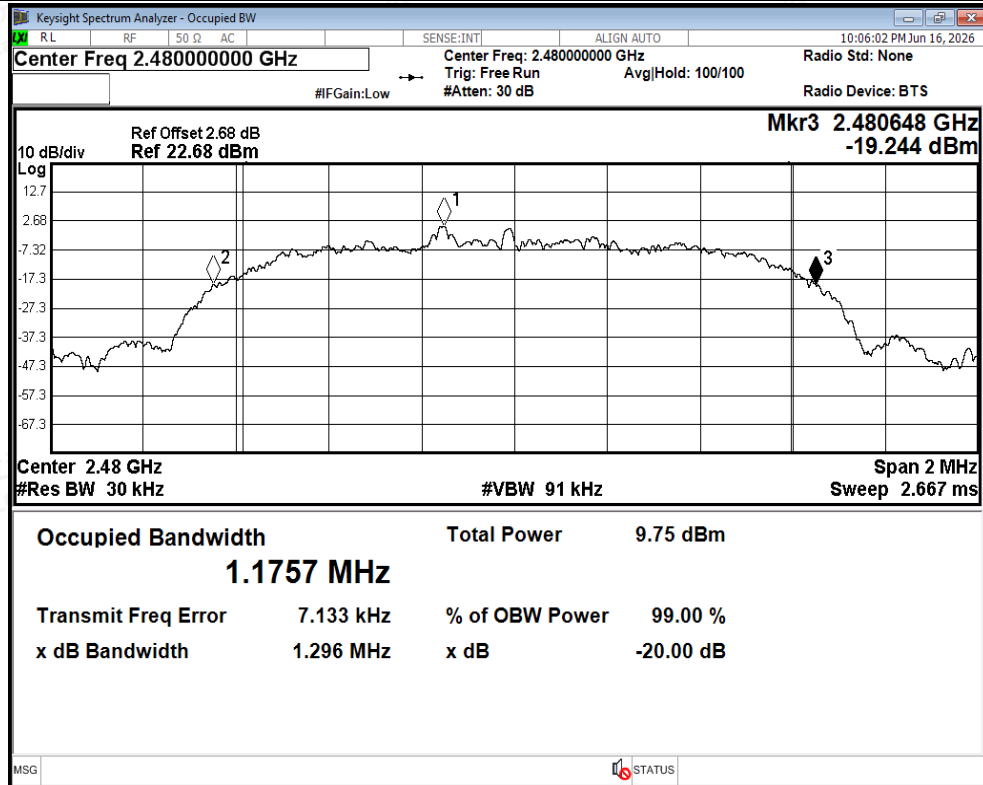


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.97	30	Pass
NVNT	1-DH5	2441	Ant1	2.98	30	Pass
NVNT	1-DH5	2480	Ant1	2.54	30	Pass
NVNT	2-DH5	2402	Ant1	5.26	30	Pass
NVNT	2-DH5	2441	Ant1	5.27	30	Pass
NVNT	2-DH5	2480	Ant1	4.75	30	Pass
NVNT	3-DH5	2402	Ant1	5.79	30	Pass
NVNT	3-DH5	2441	Ant1	5.8	30	Pass
NVNT	3-DH5	2480	Ant1	5.34	30	Pass

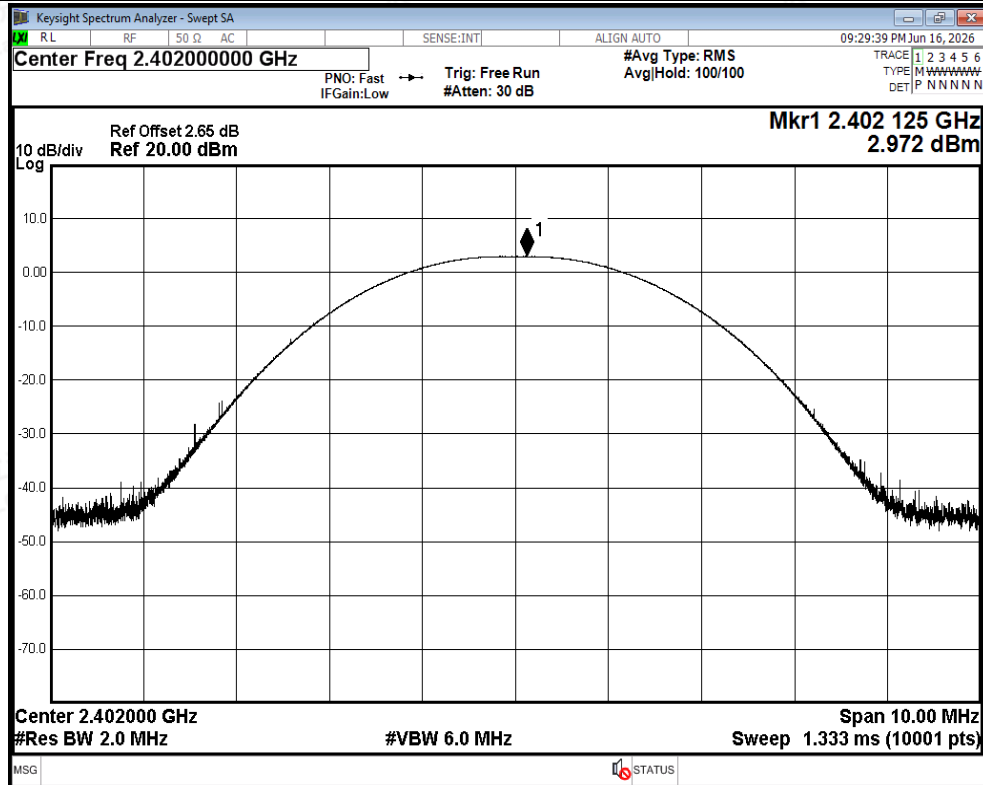


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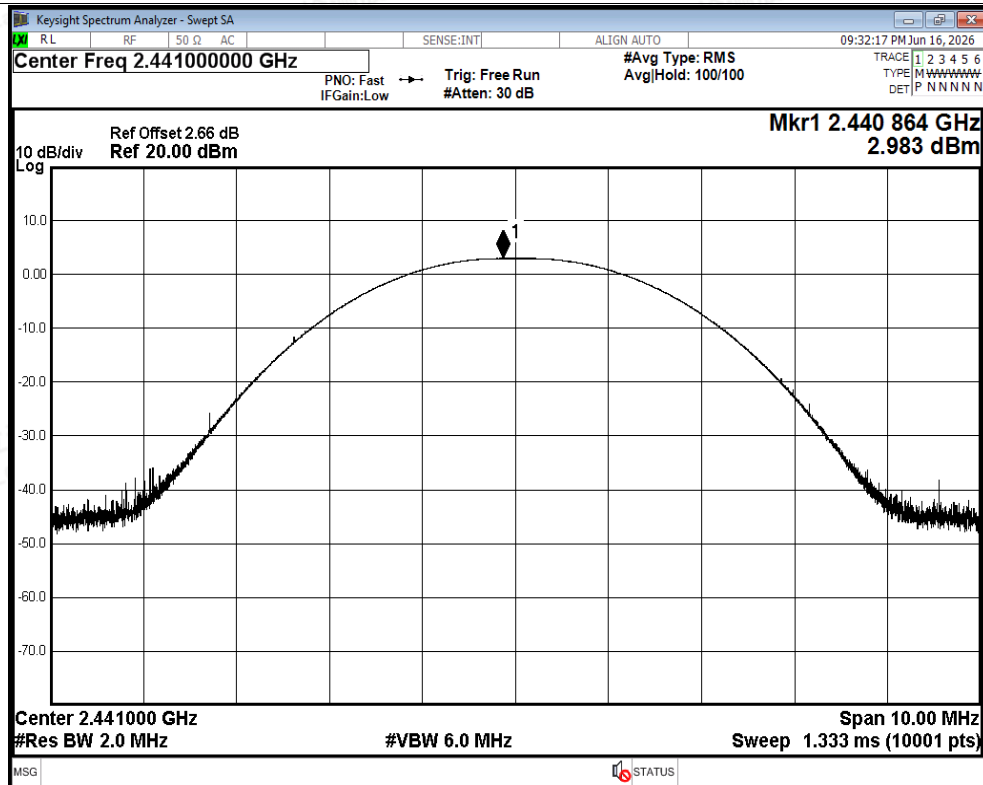
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Peak Power NVNT 1-DH5 2402MHz Ant1



Peak Power NVNT 1-DH5 2441MHz Ant1

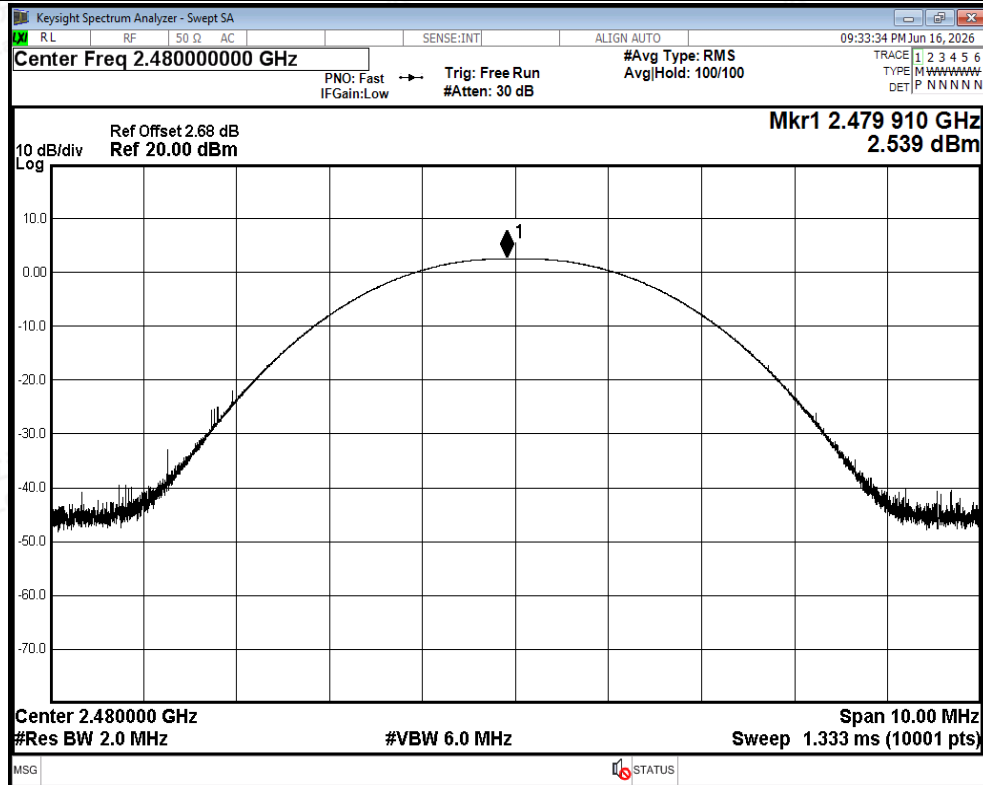


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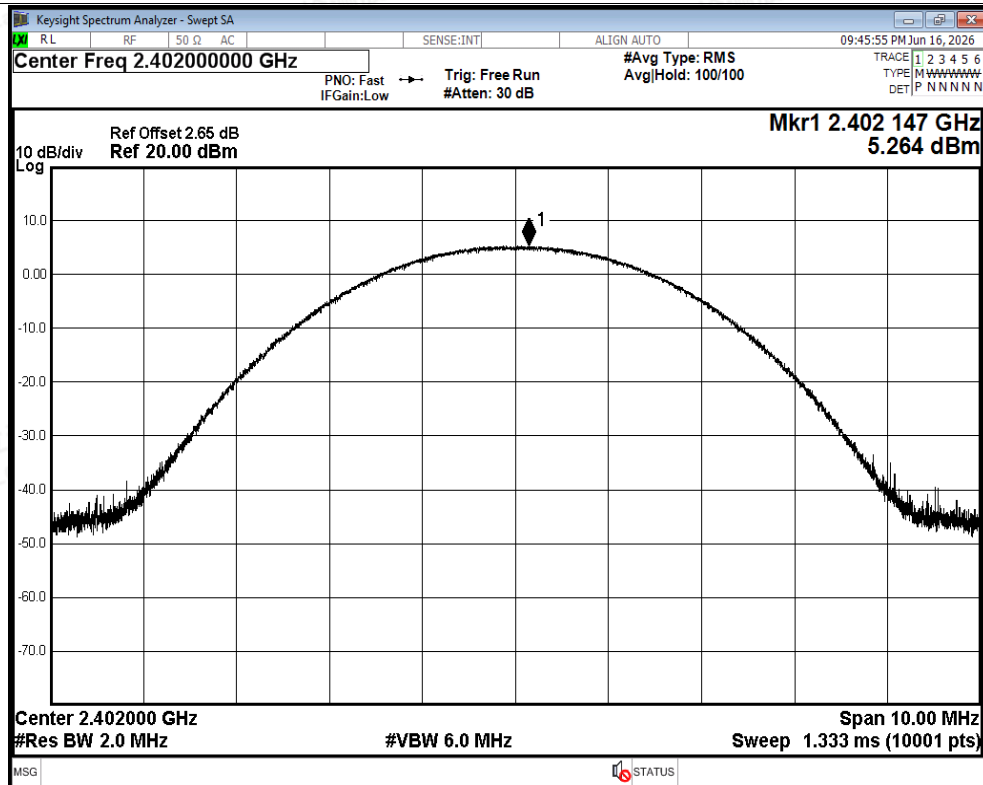
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Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1

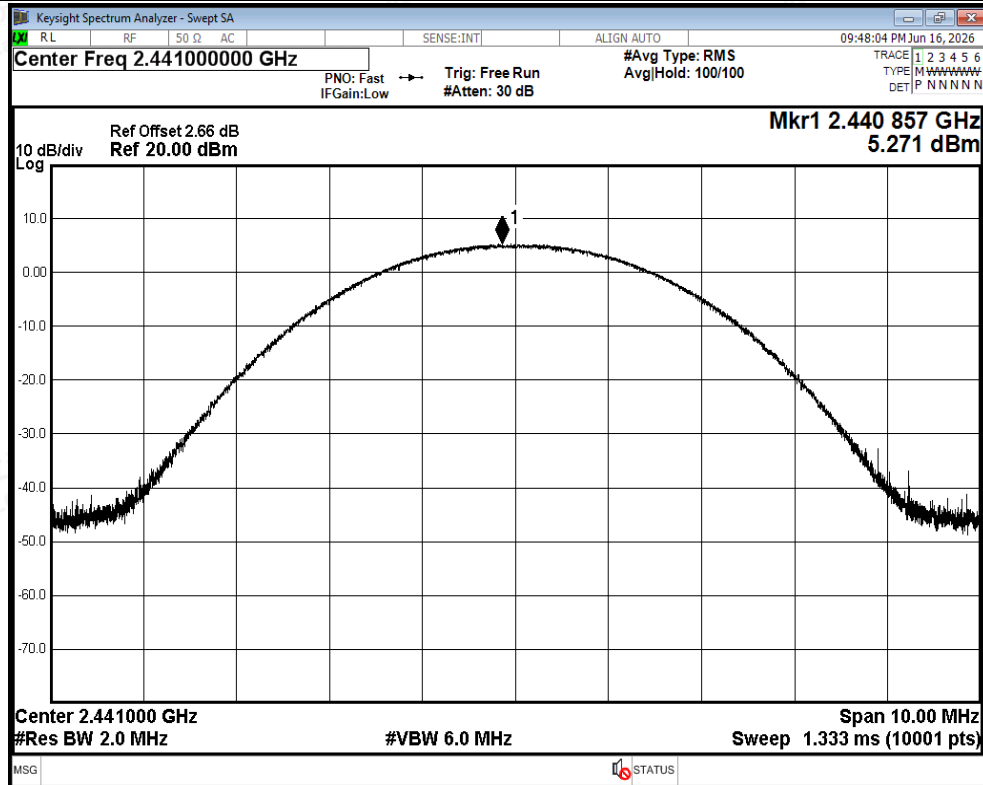


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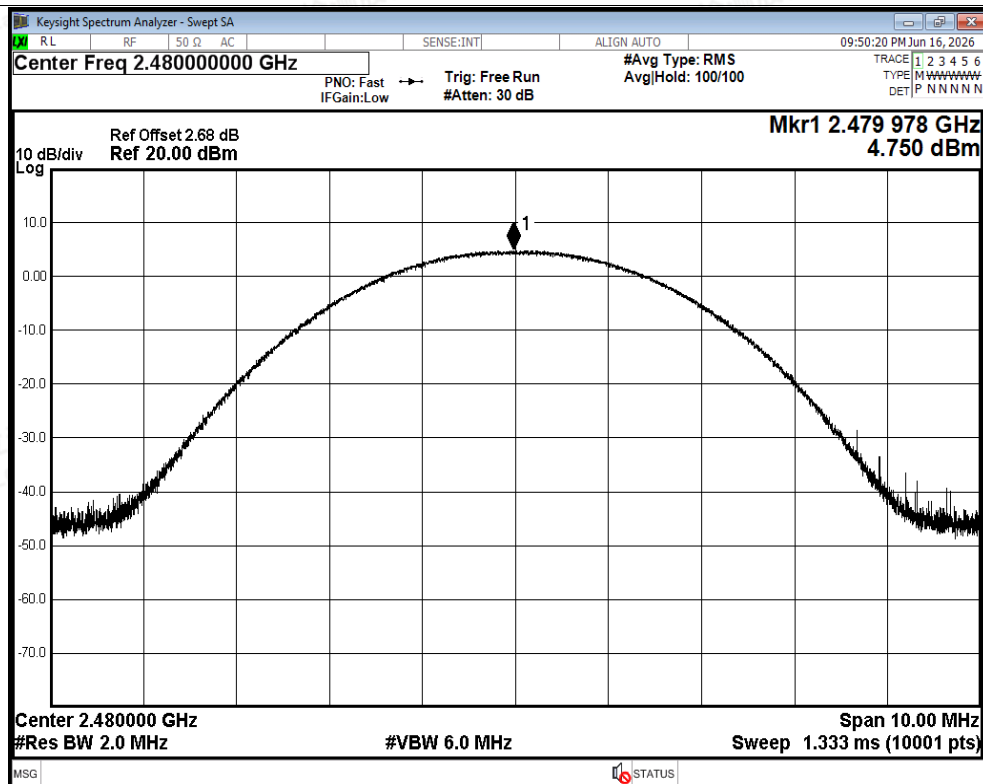
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Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1

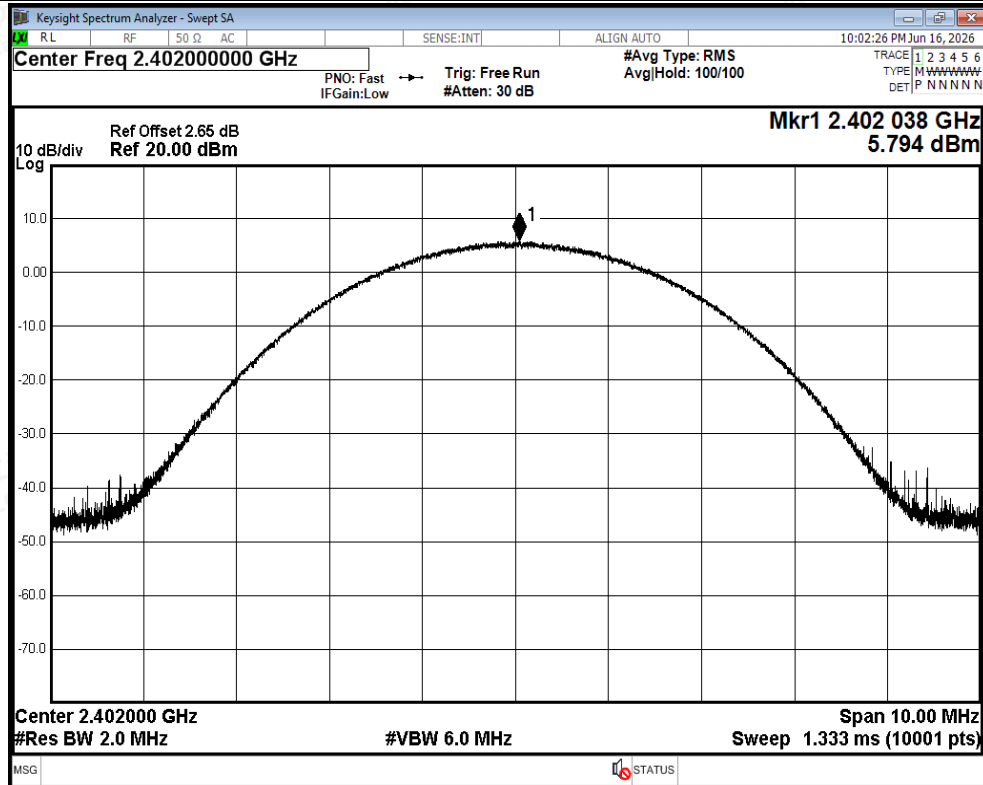


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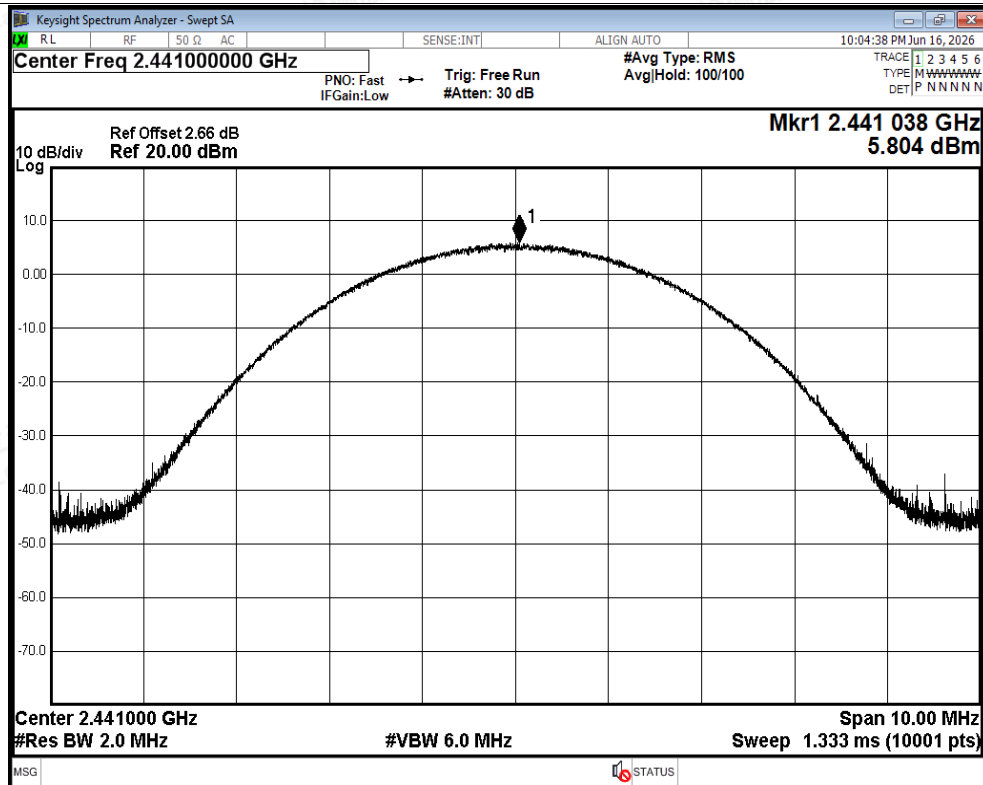
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Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

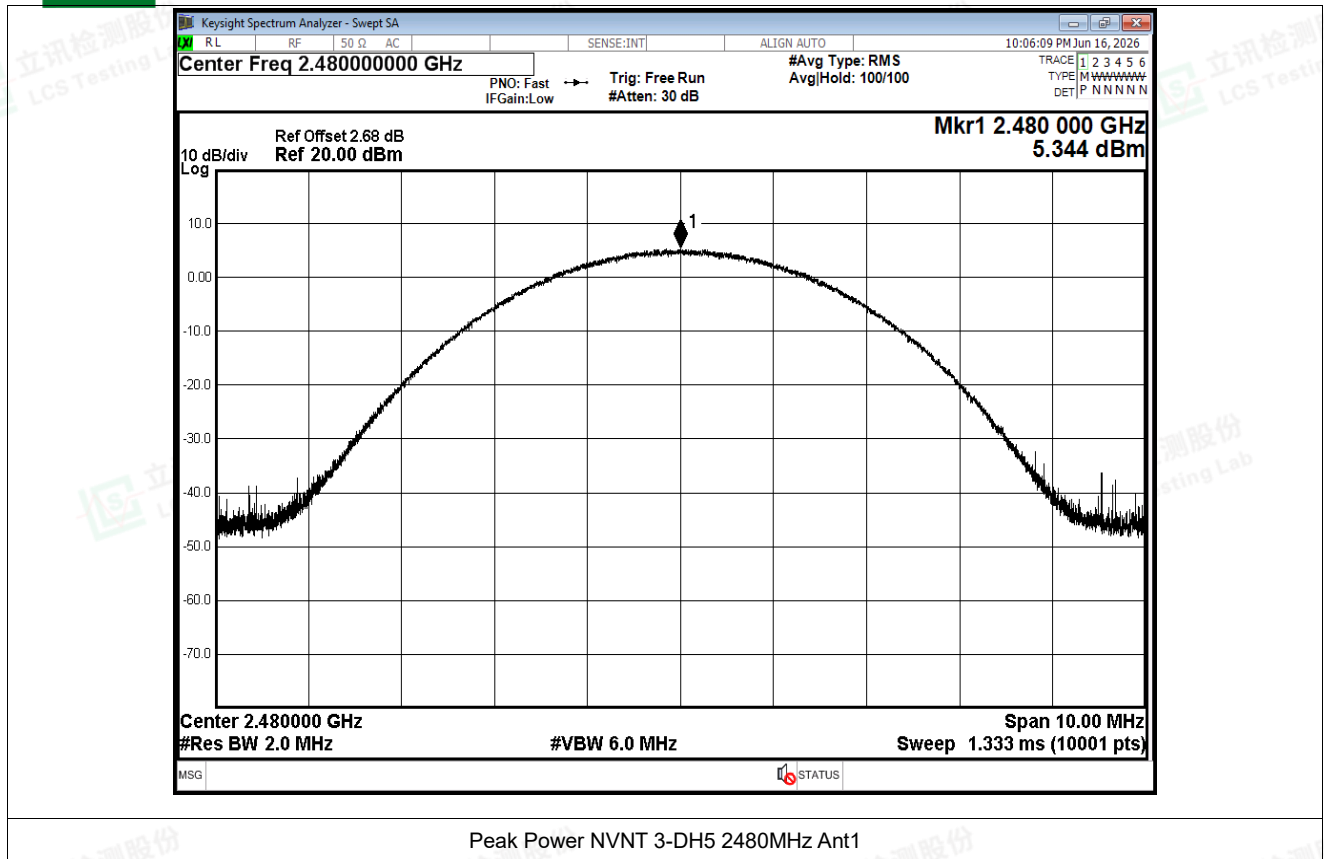


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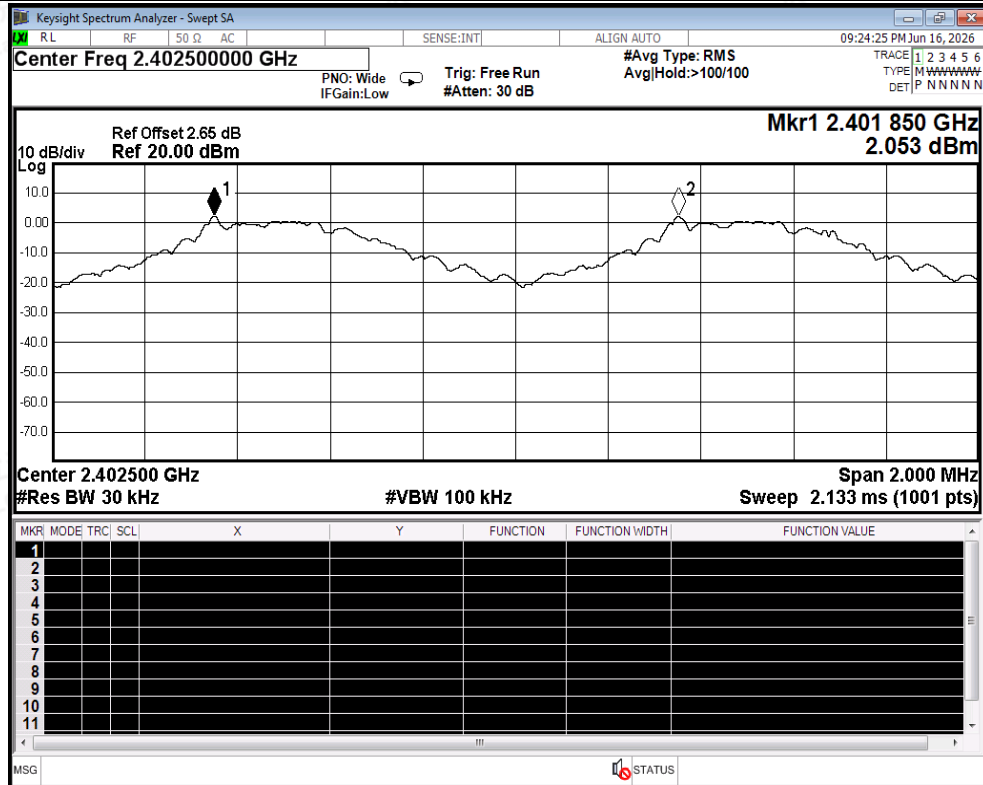
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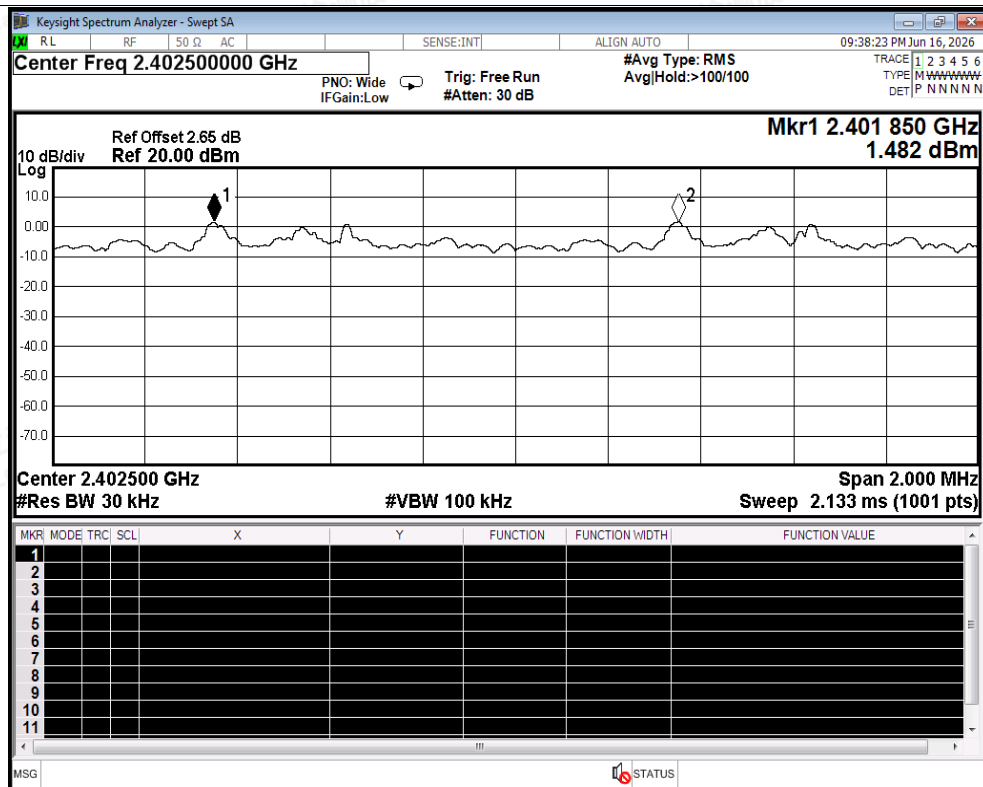
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.85	2402.852	1.002	0.621	Pass
NVNT	2-DH5	Ant1	2401.85	2402.852	1.002	0.880	Pass
NVNT	3-DH5	Ant1	2401.854	2402.846	0.992	0.868	Pass





CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

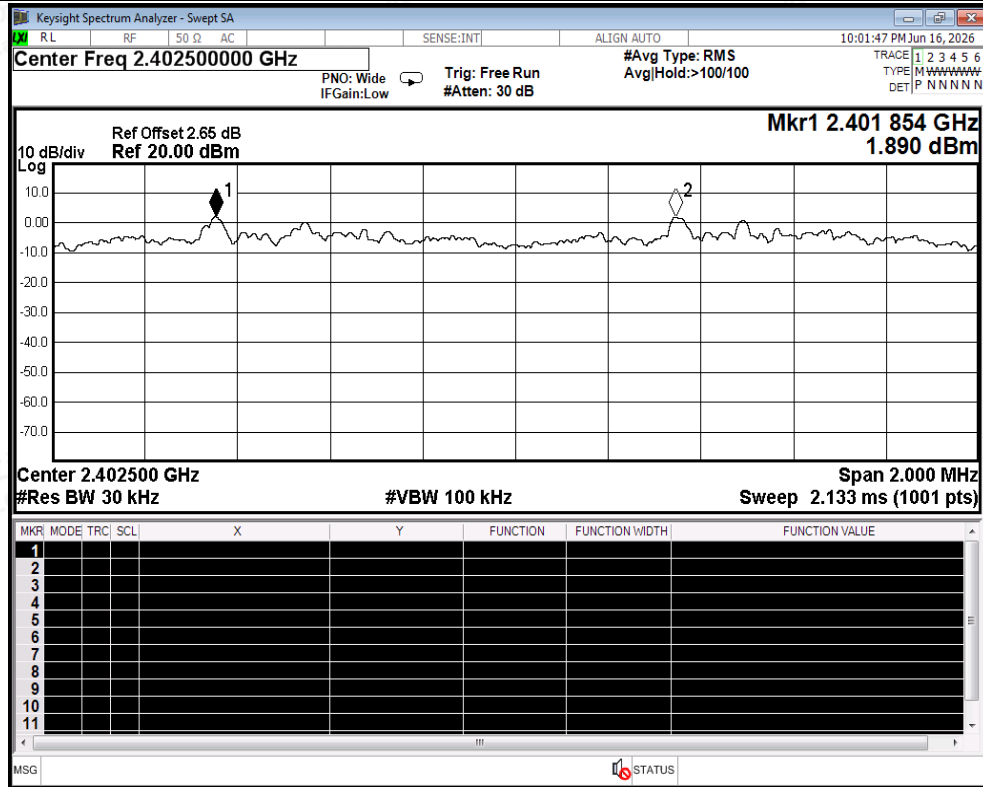


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CFS NVNT 3-DH5 2402MHz Ant1



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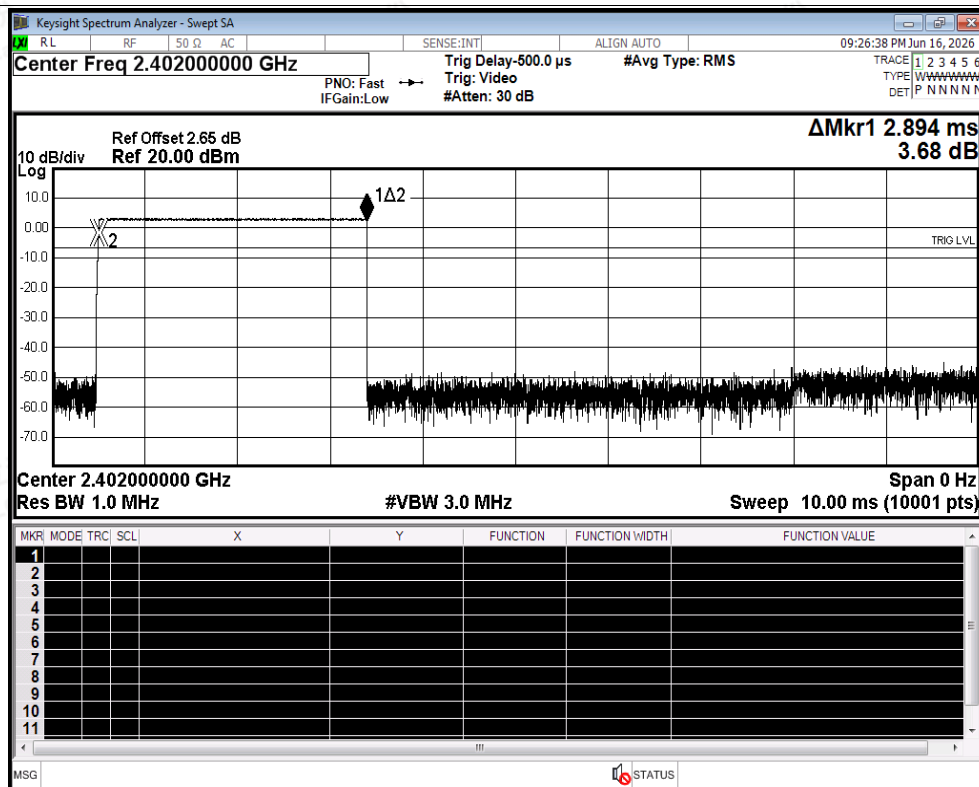
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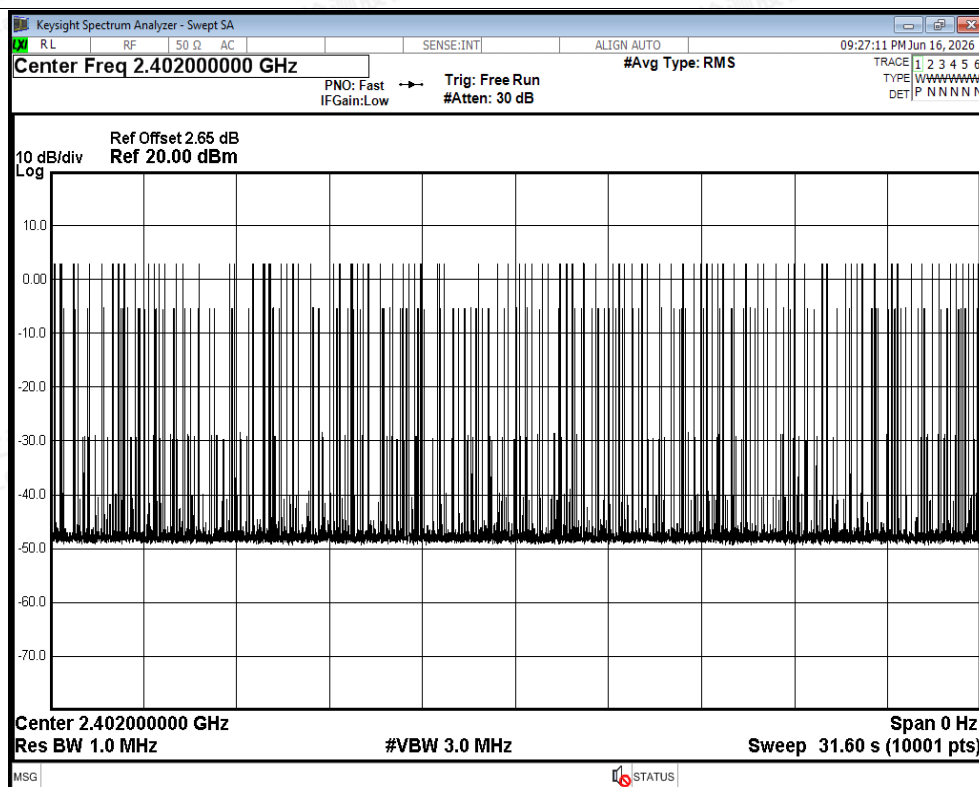
A.4 Dwell Time

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	2.894	335.704	116	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.872	292.944	102	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.87	324.31	113	31600	400	Pass





Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

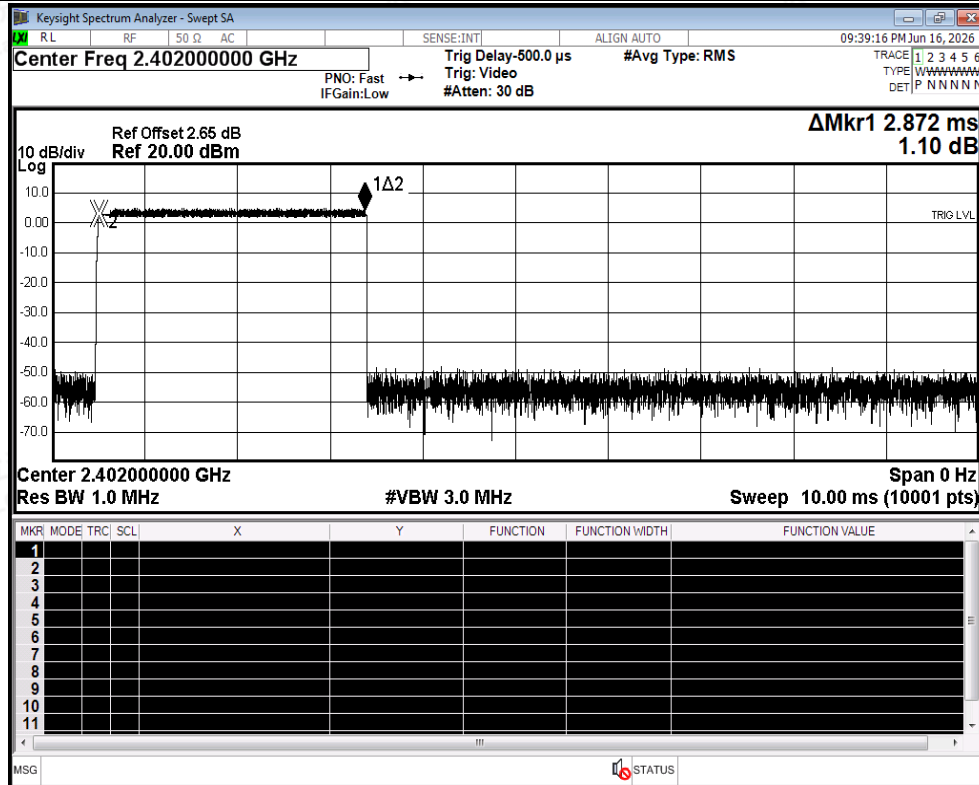


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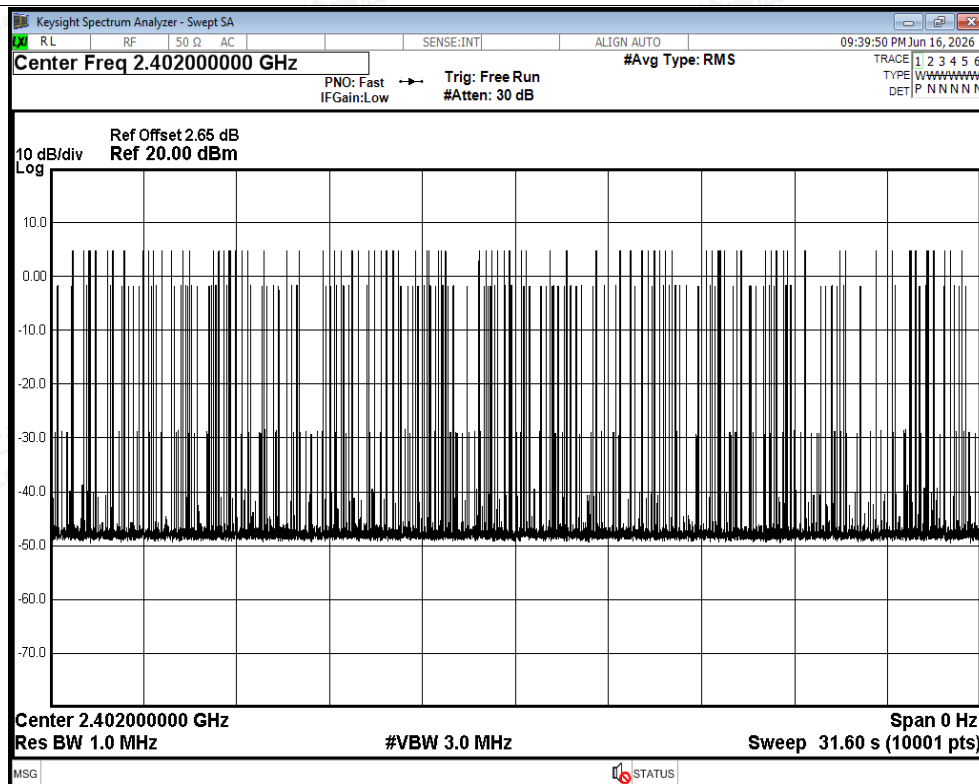
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

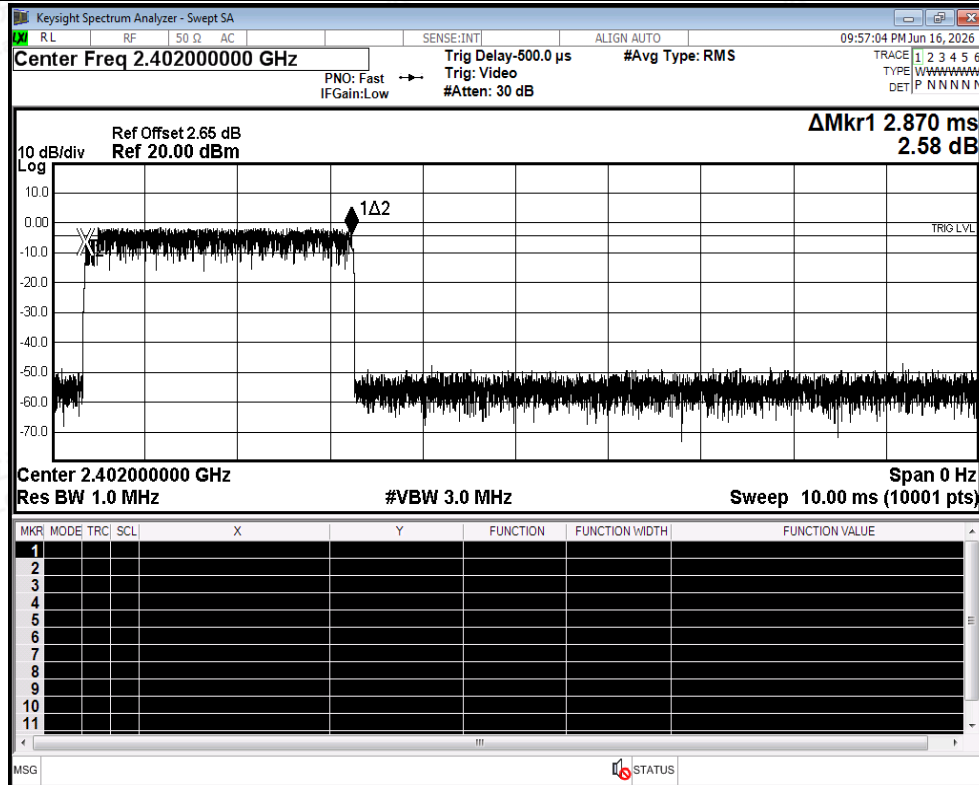


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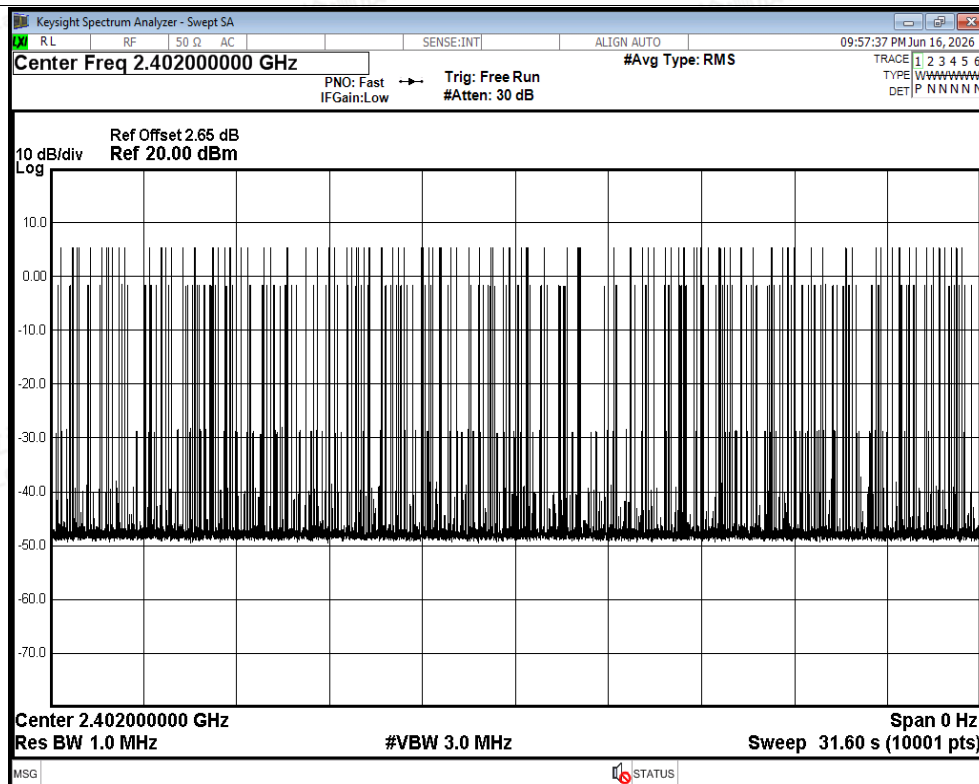
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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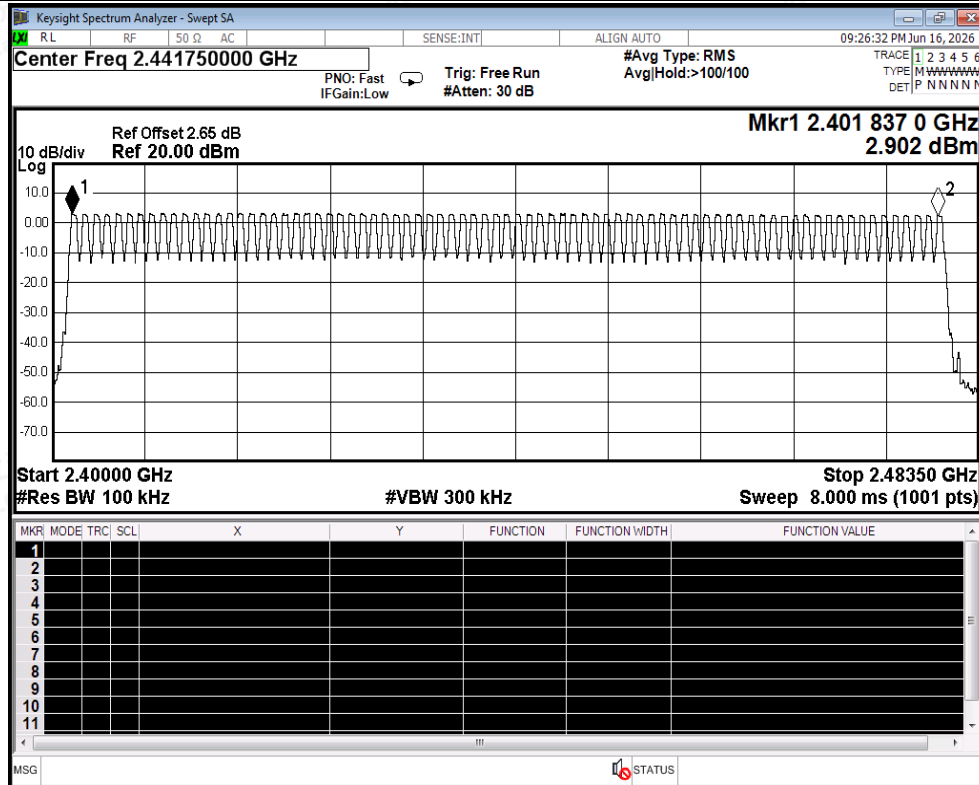
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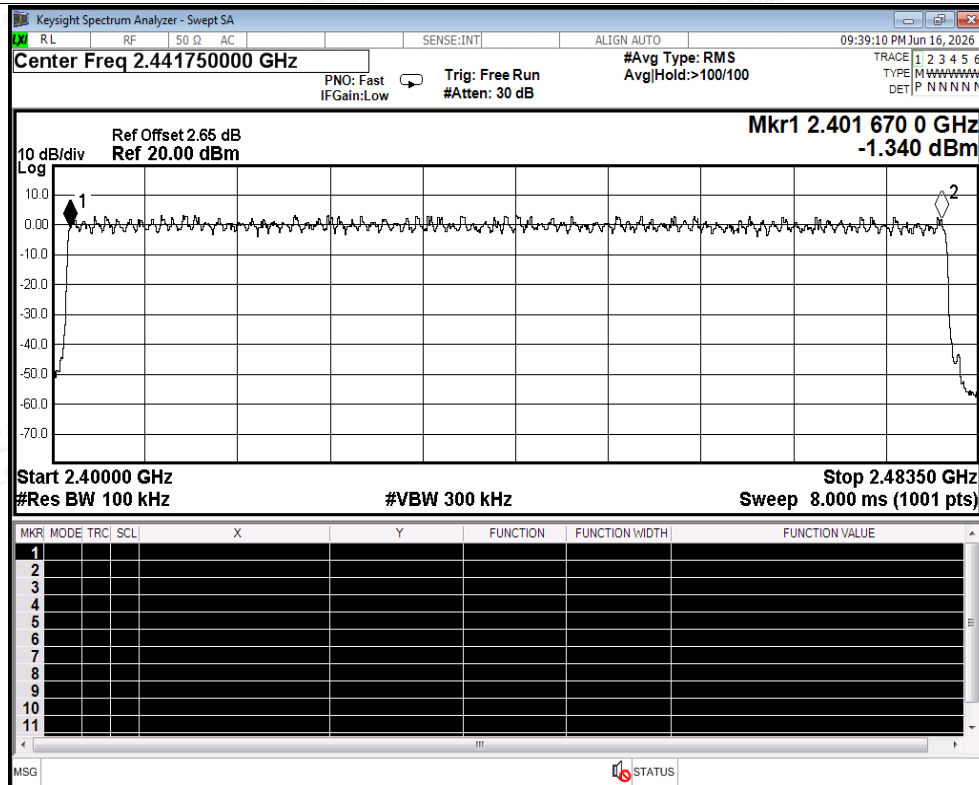
A.5 Number of Hopping Channel

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





Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

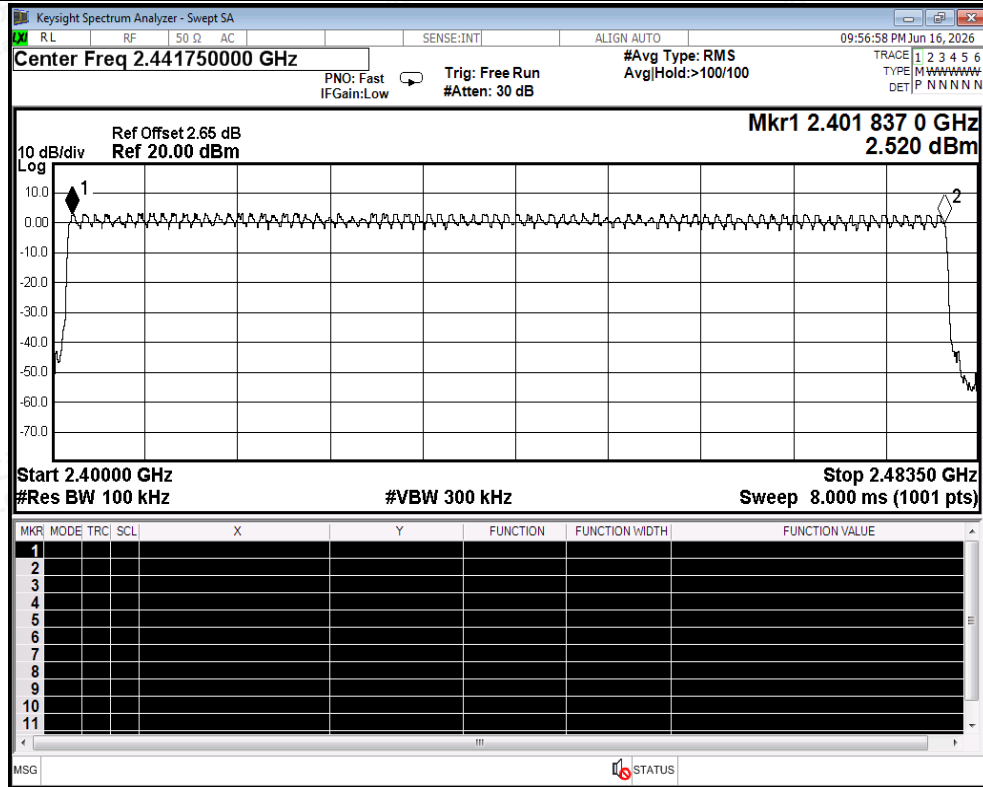


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Hopping No. NVNT 3-DH5 2402MHz Ant1



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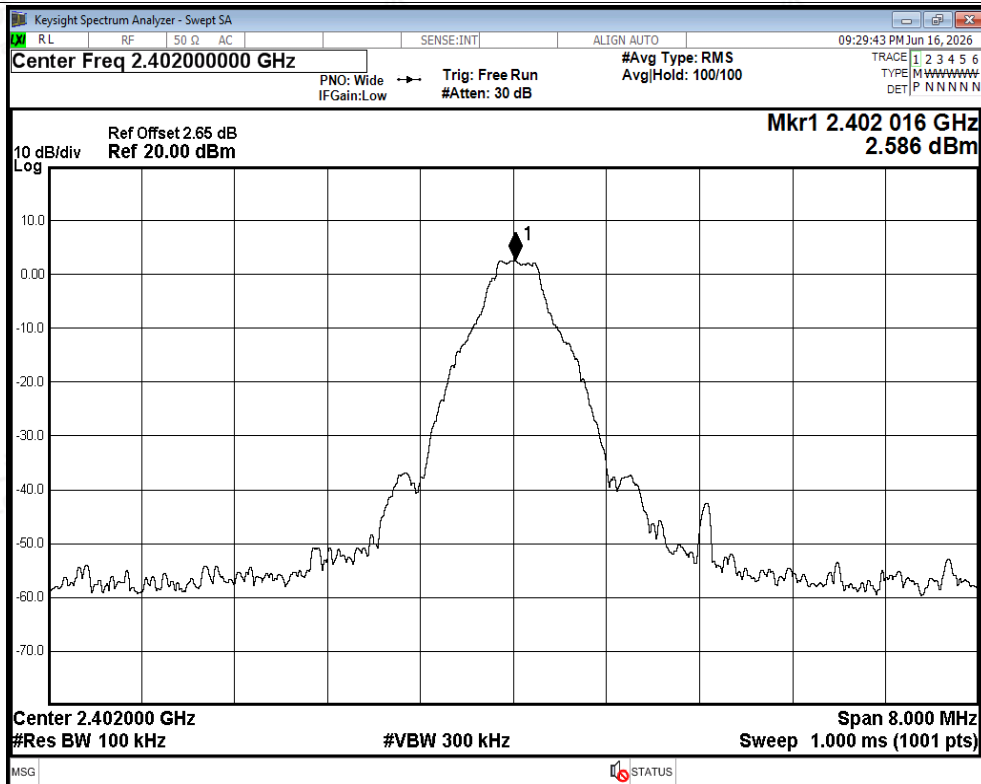
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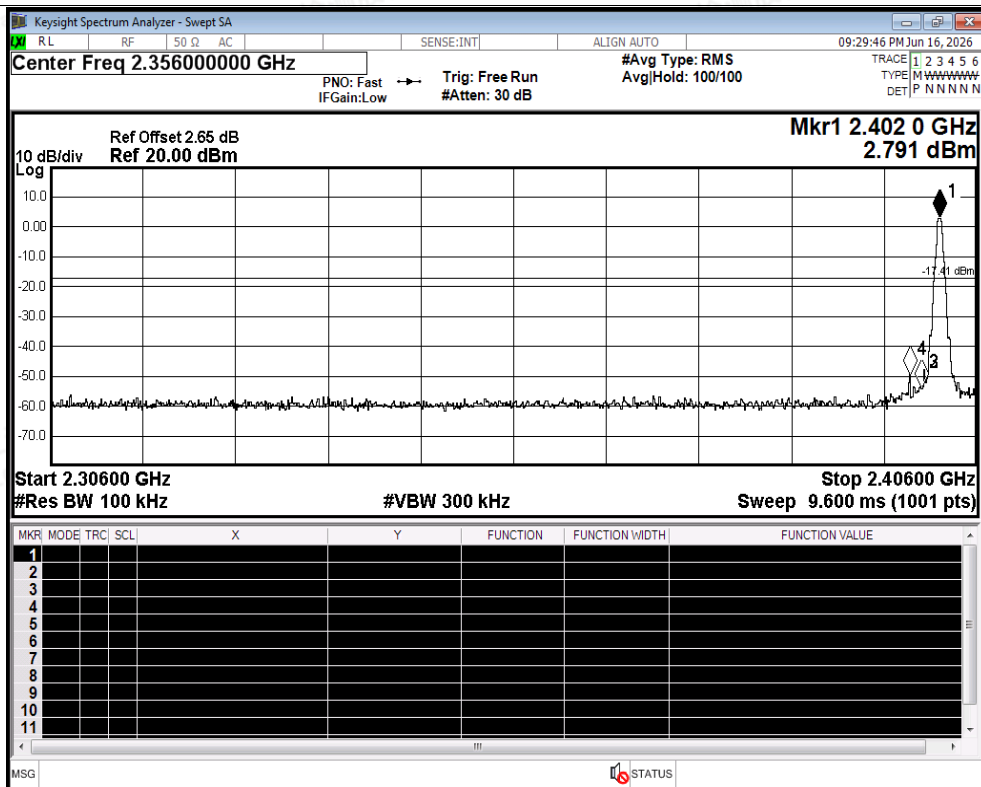
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-52.24	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.71	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.58	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.83	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.19	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.75	-20	Pass





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



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

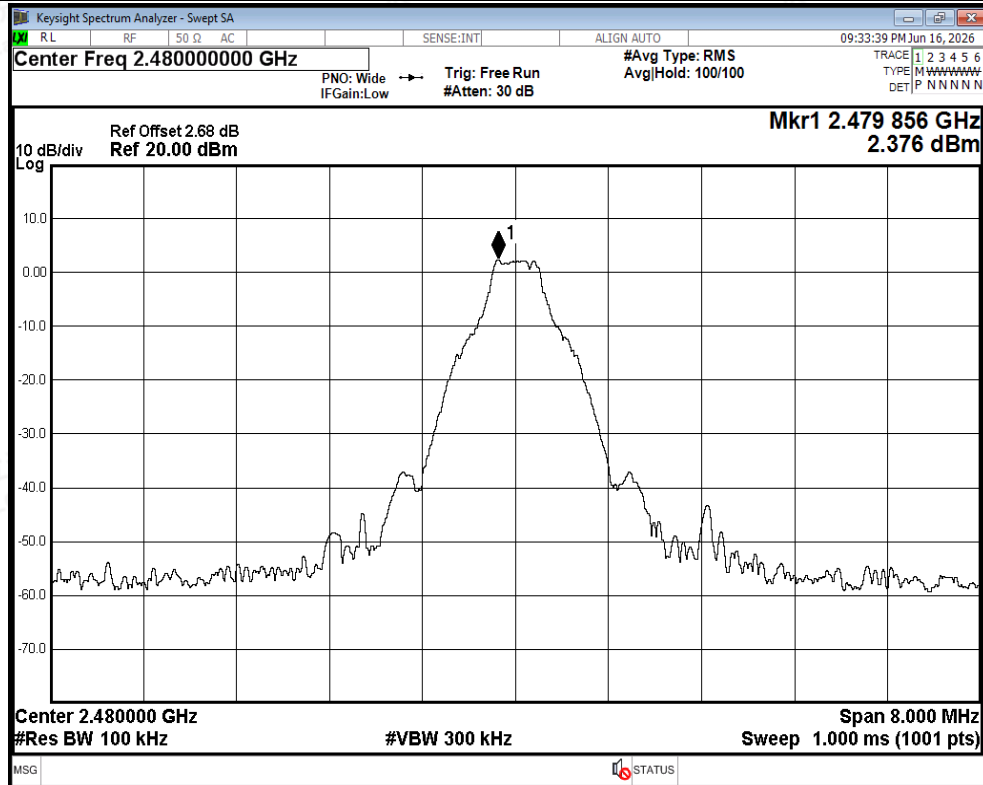


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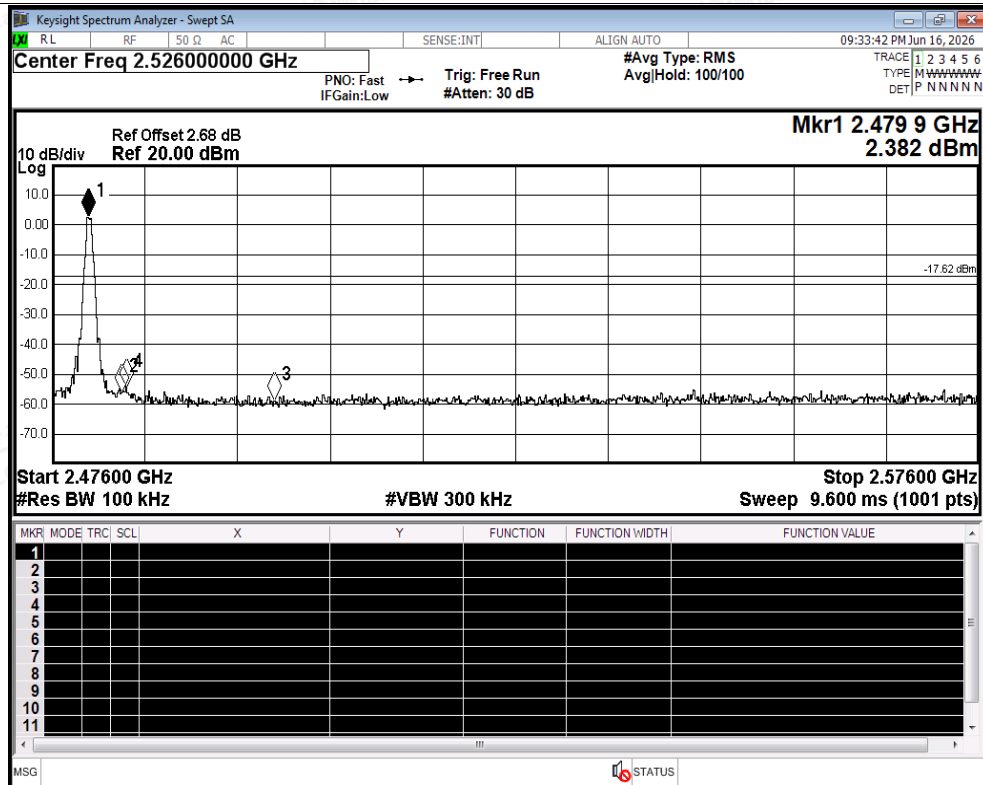
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

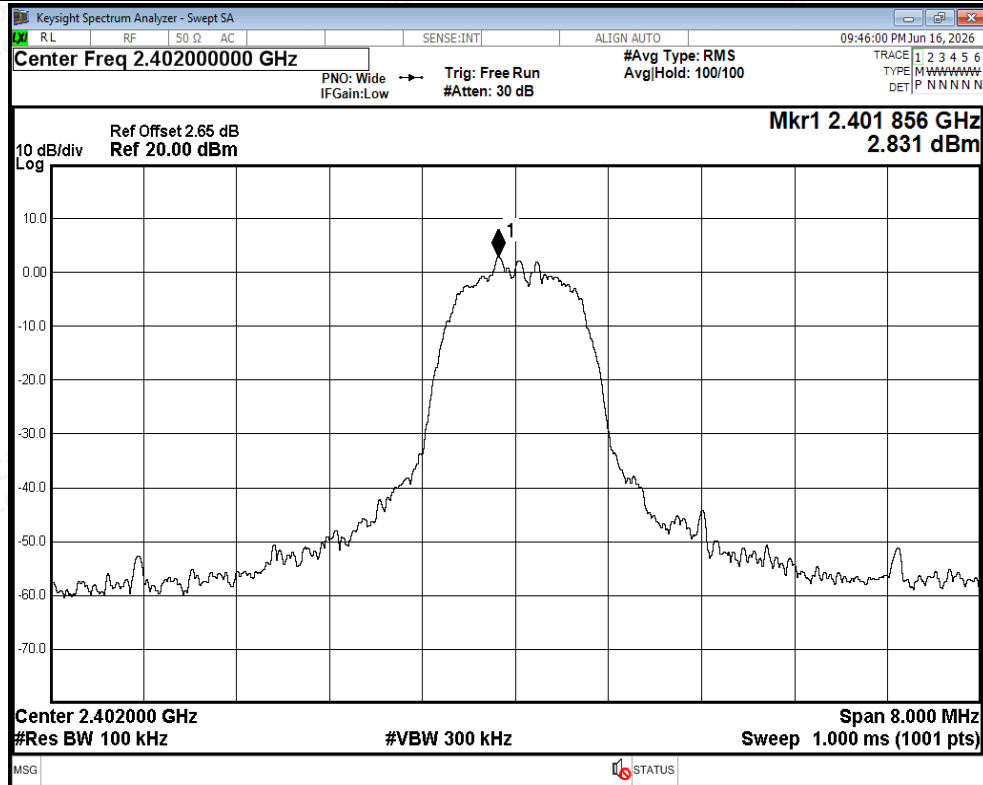


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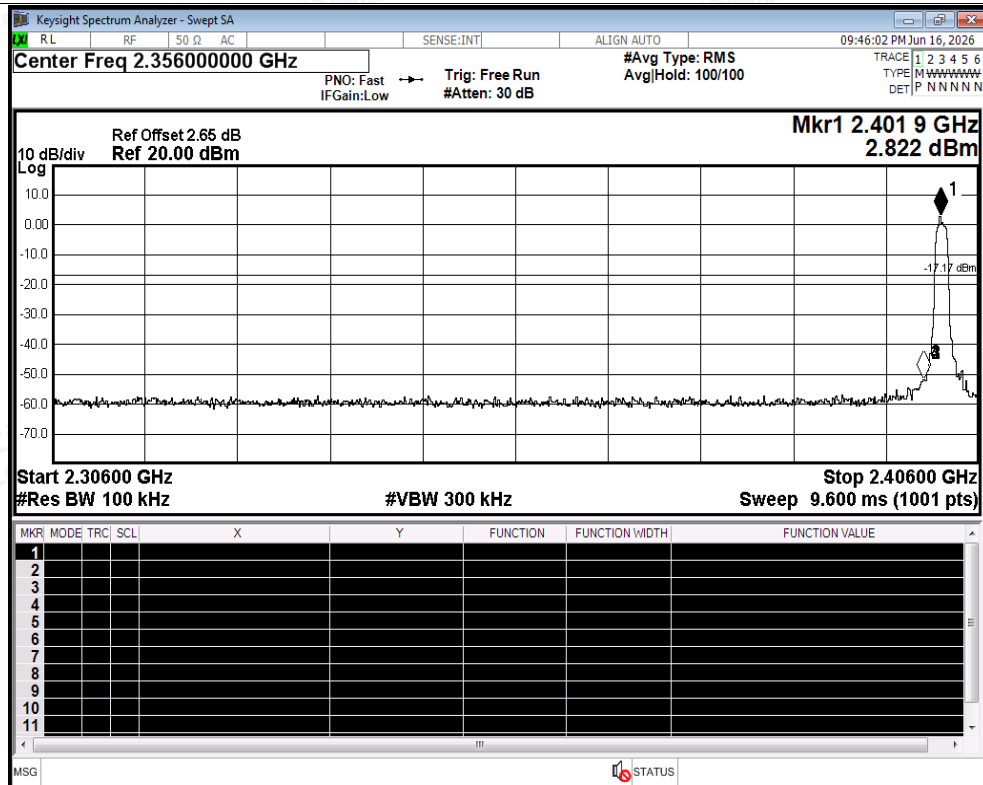
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

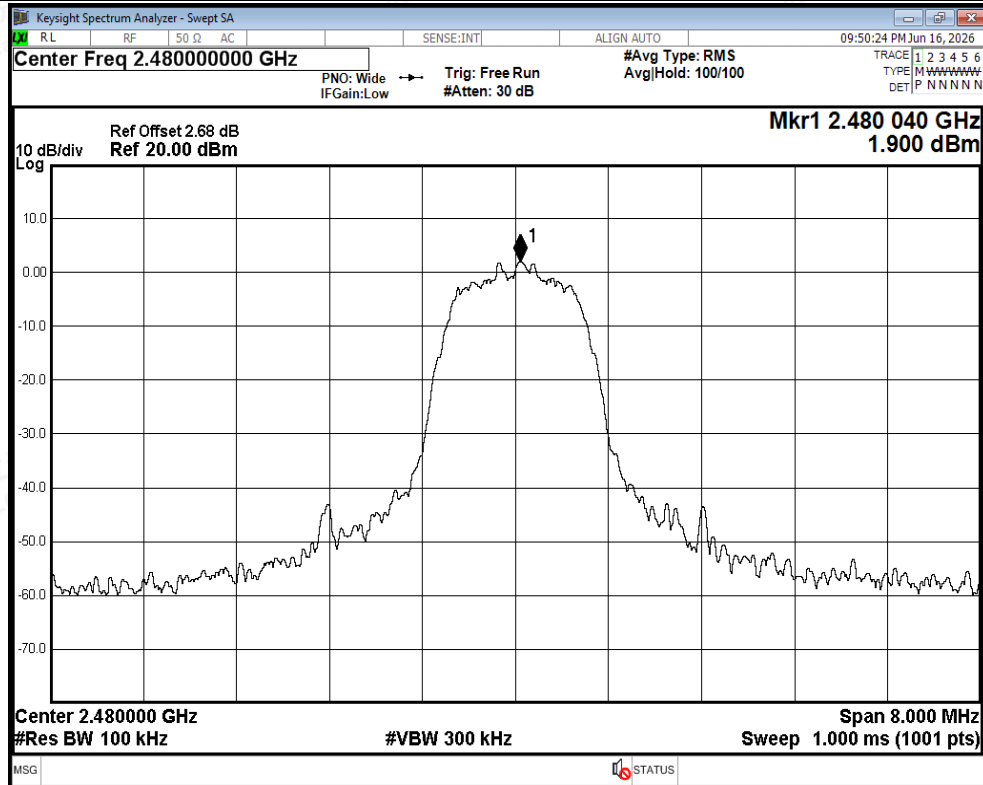


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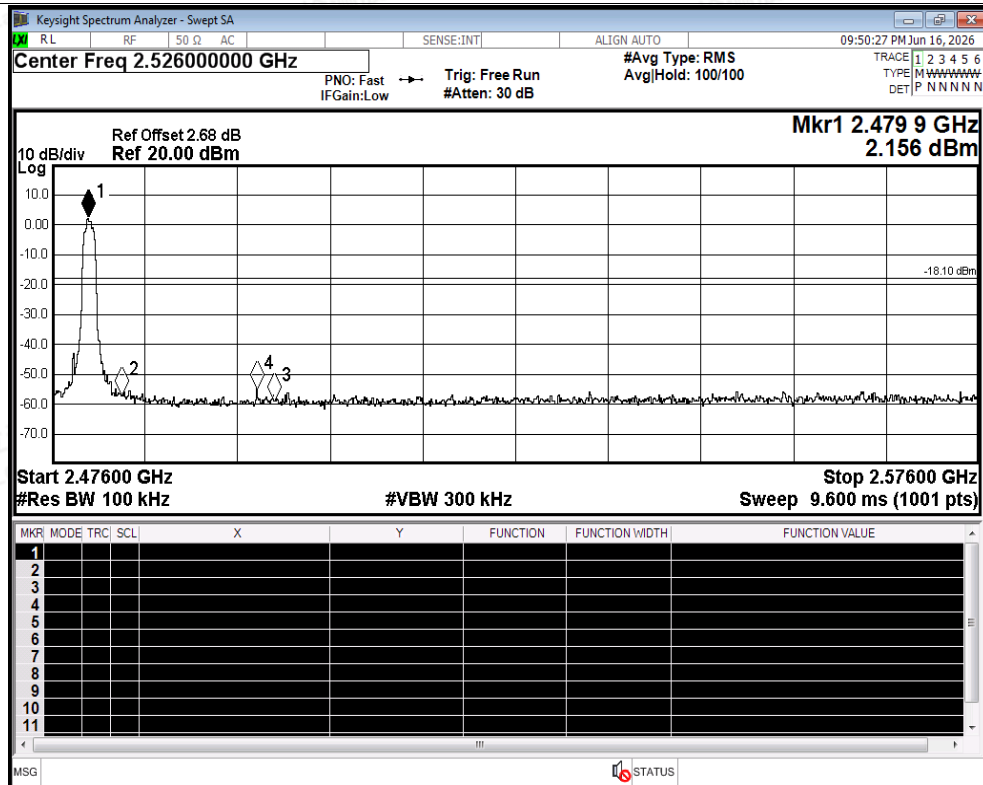
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

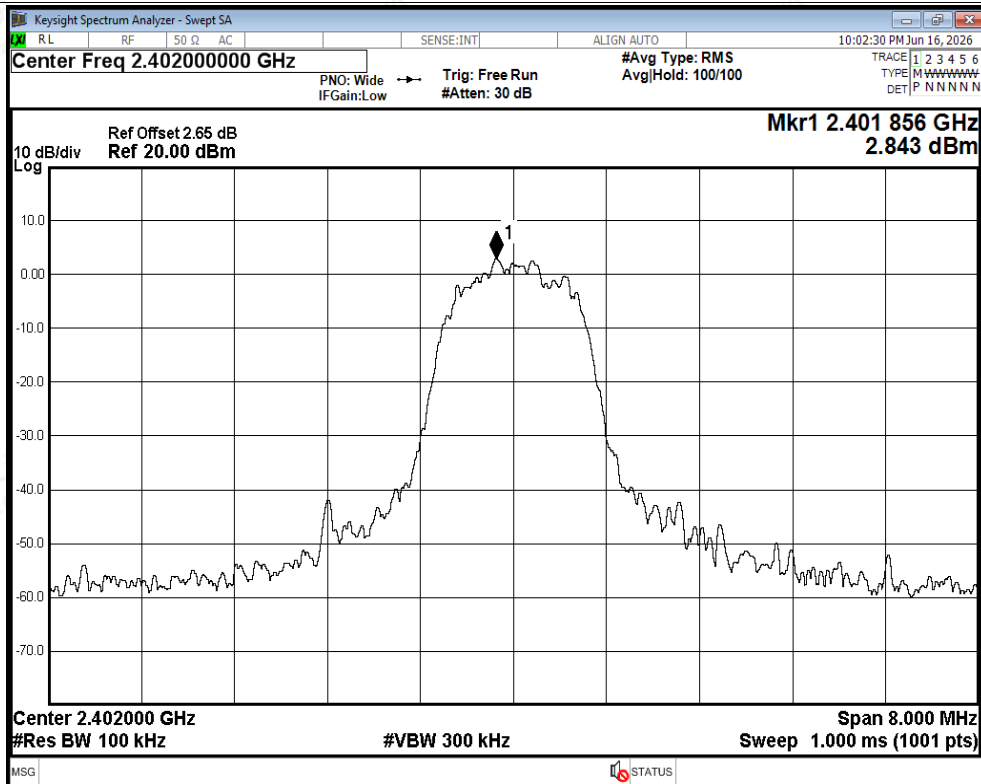


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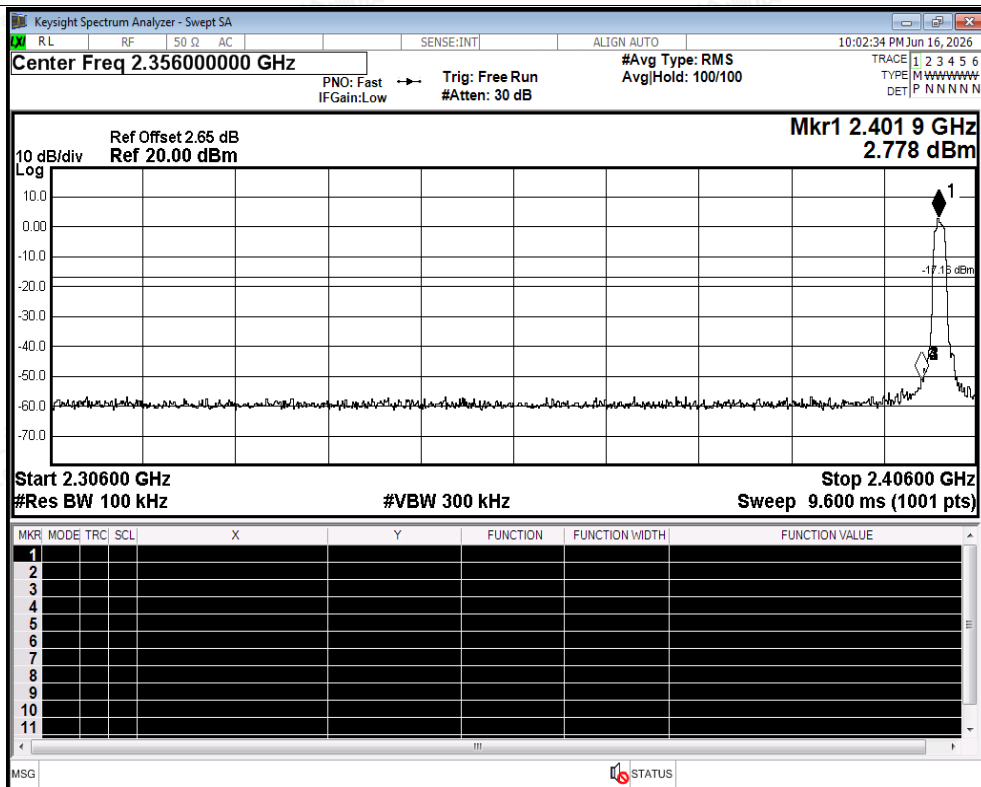
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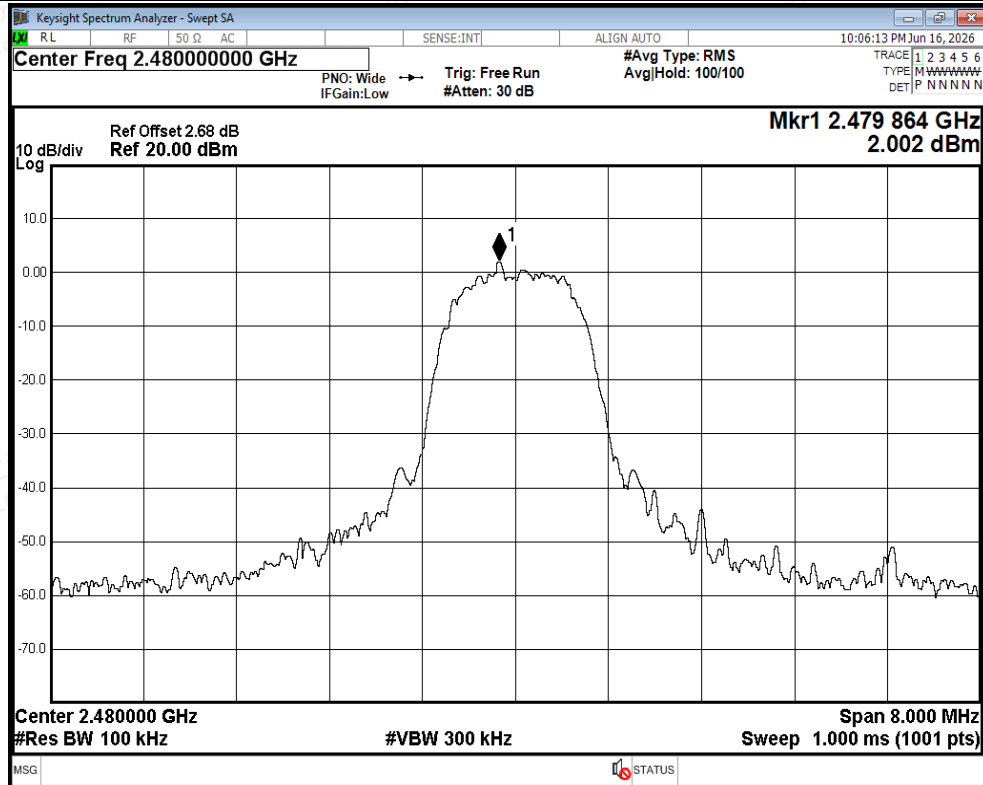


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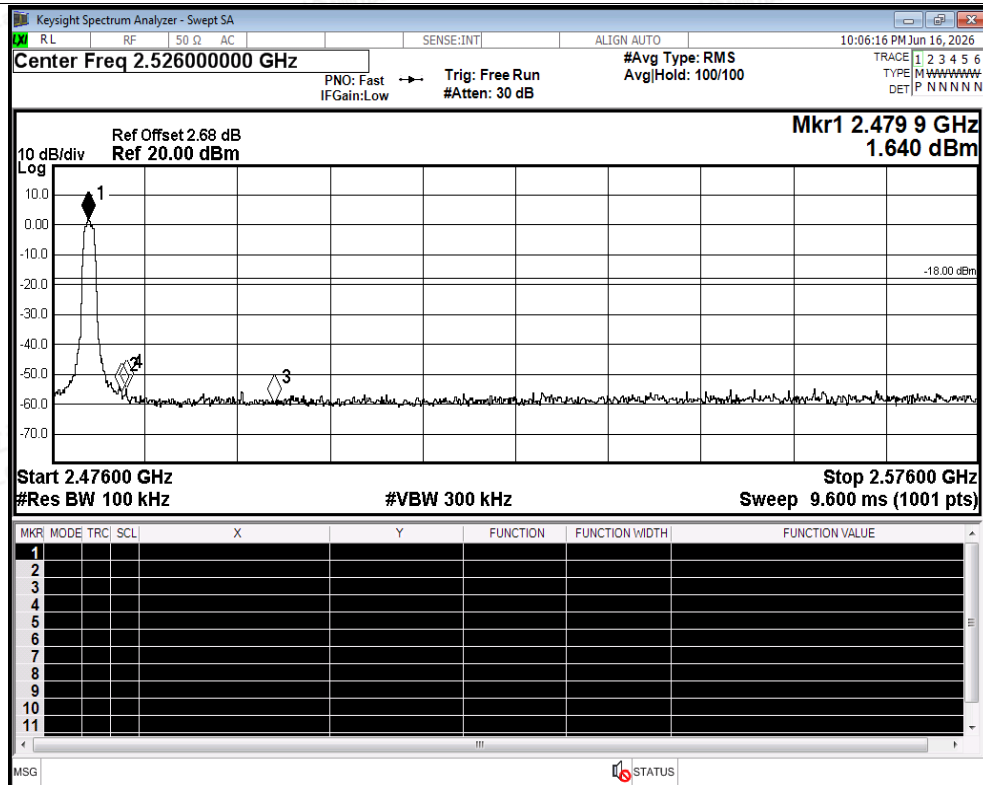
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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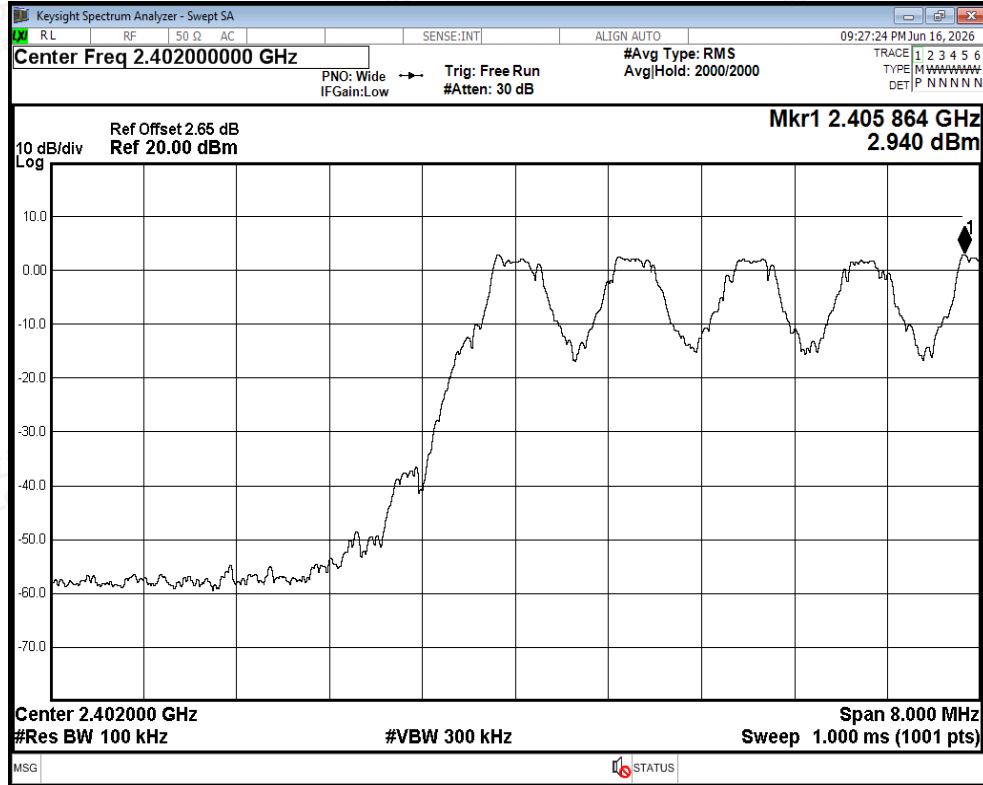
Scan code to check authenticity



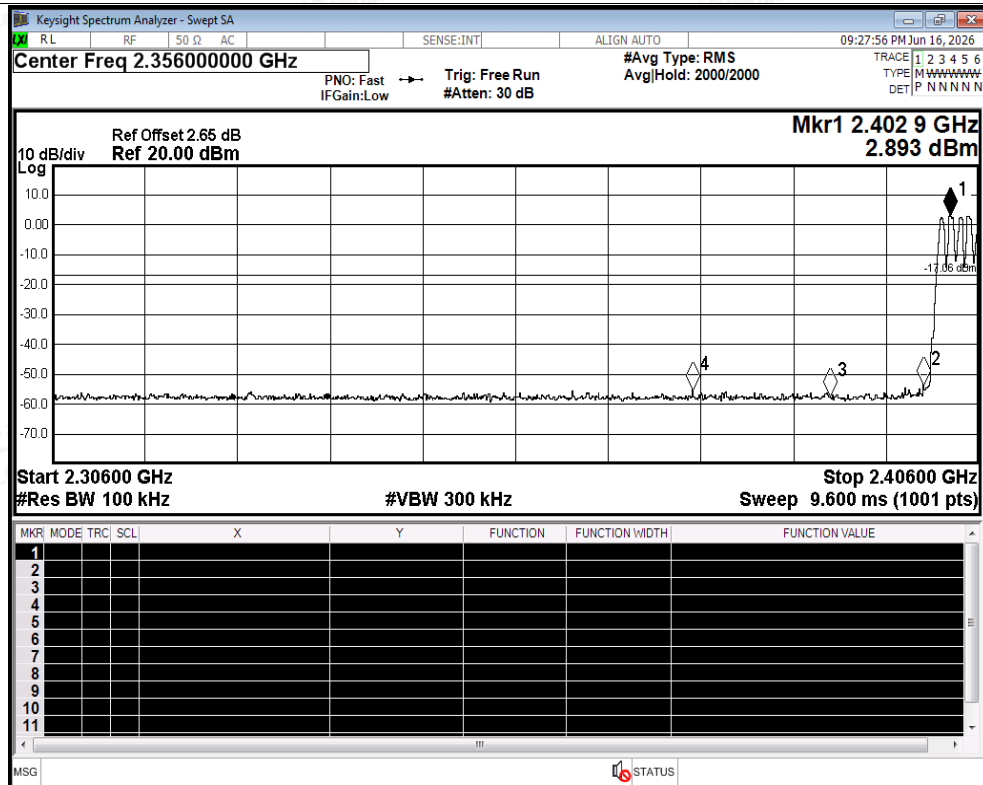
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.26	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.37	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.63	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.69	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.52	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.95	-20	Pass





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



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

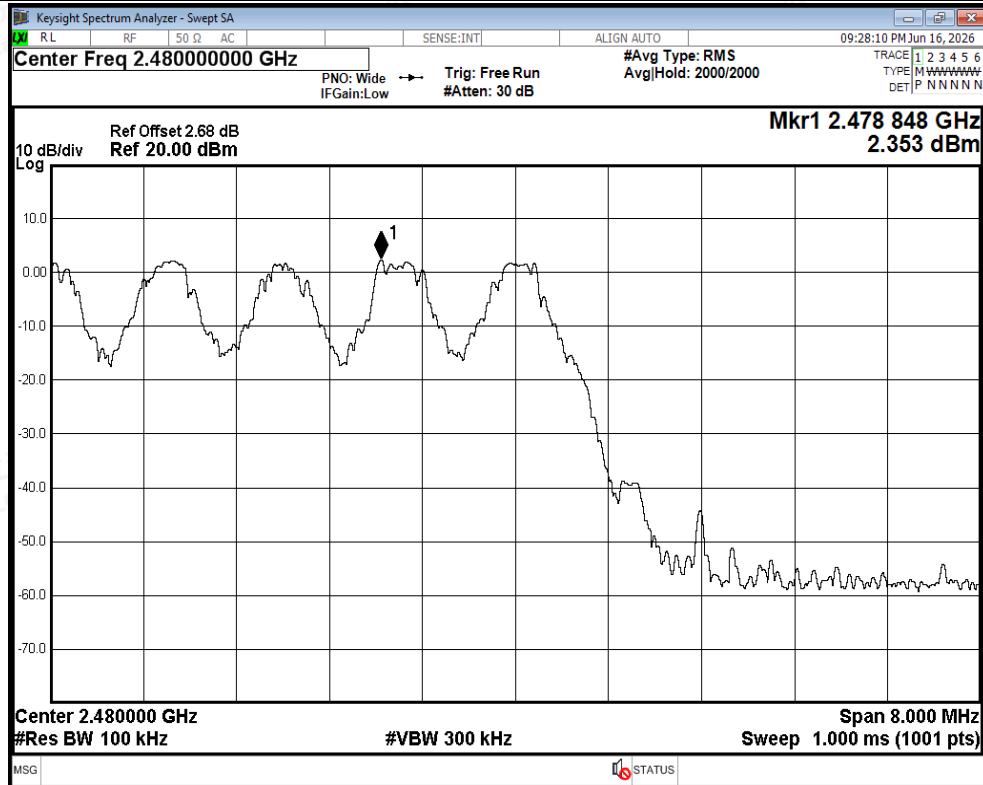


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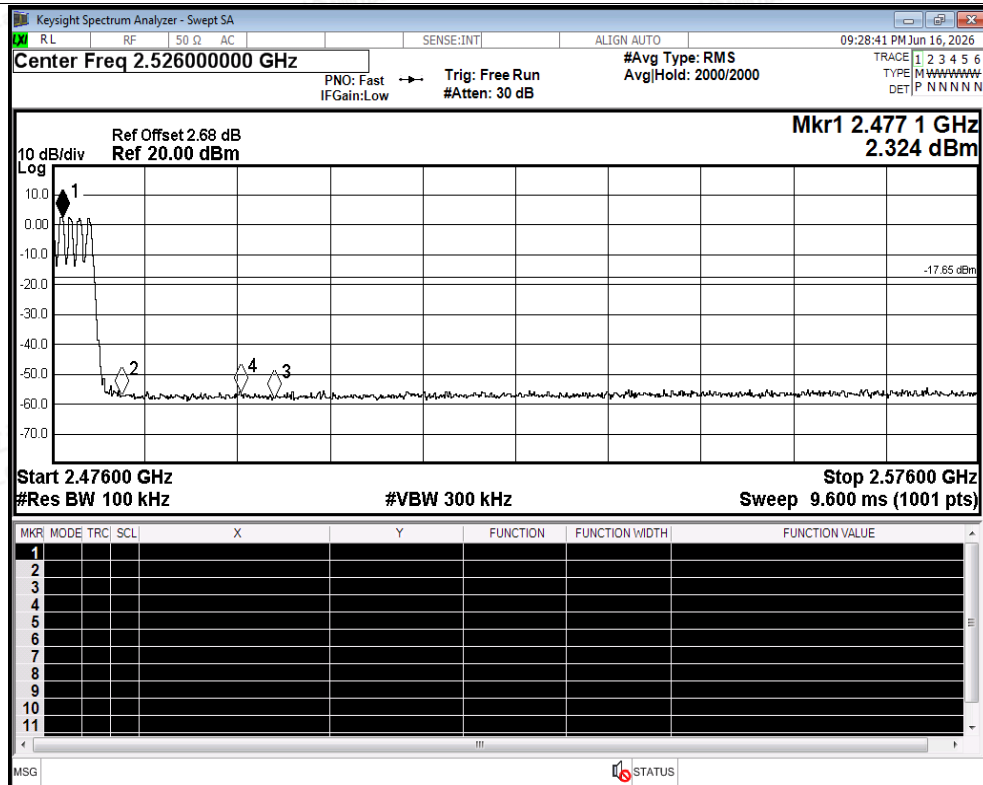
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

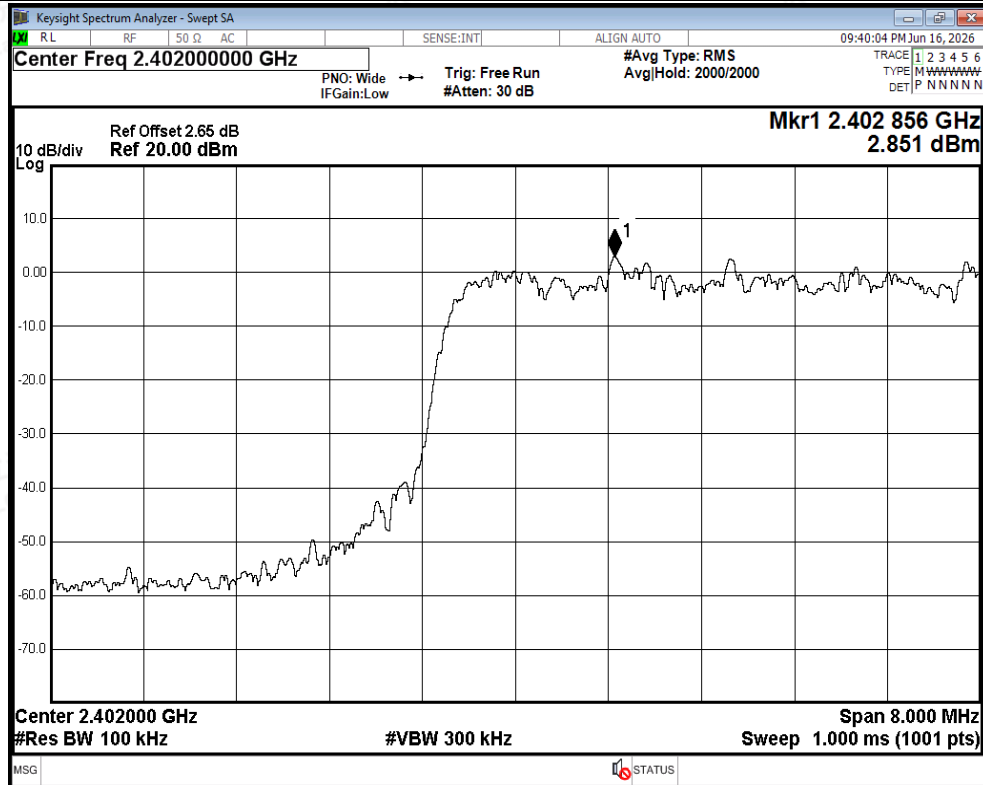


Shenzhen LCS Compliance Testing Laboratory Ltd.

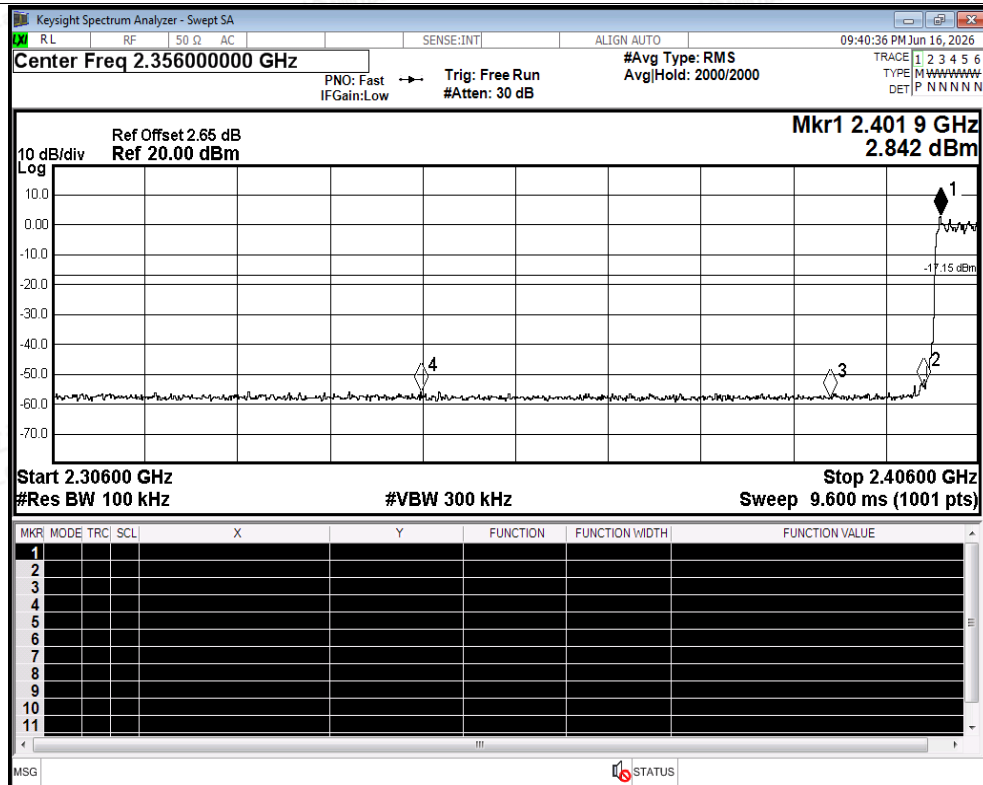
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

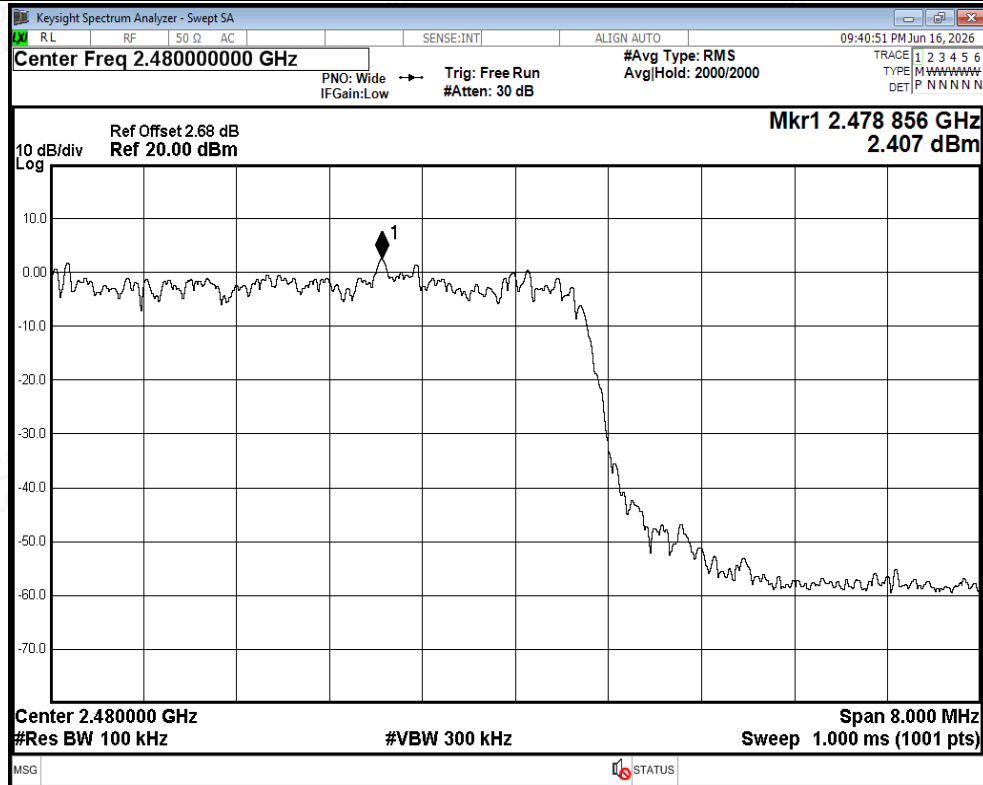


Shenzhen LCS Compliance Testing Laboratory Ltd.

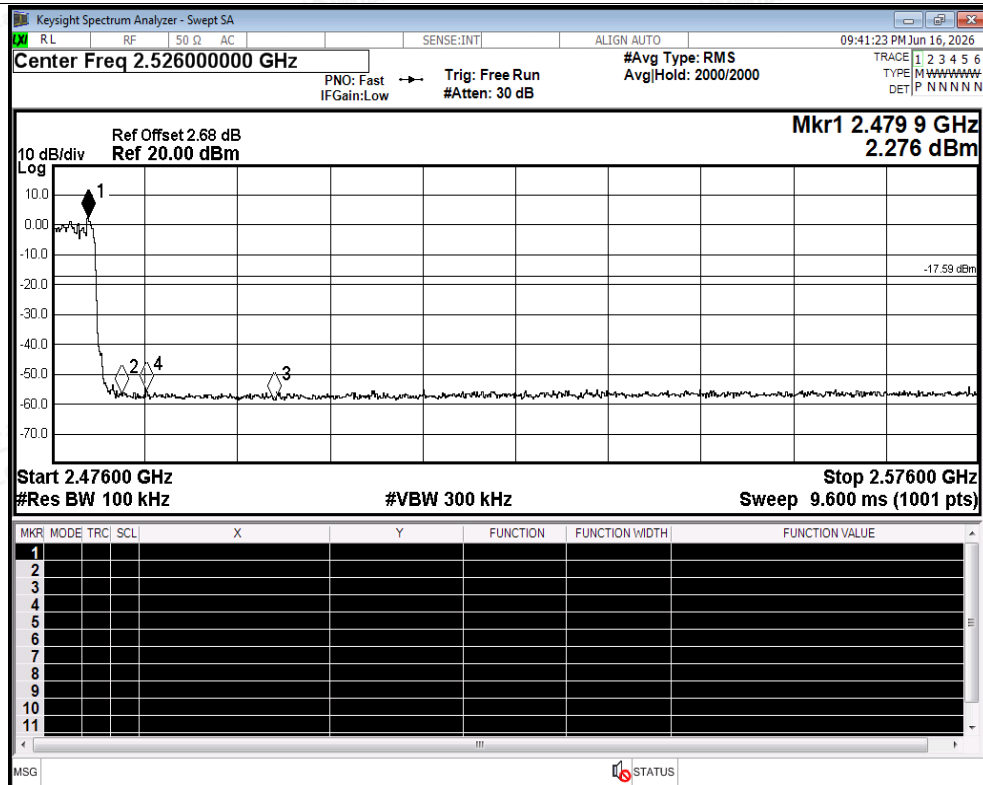
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

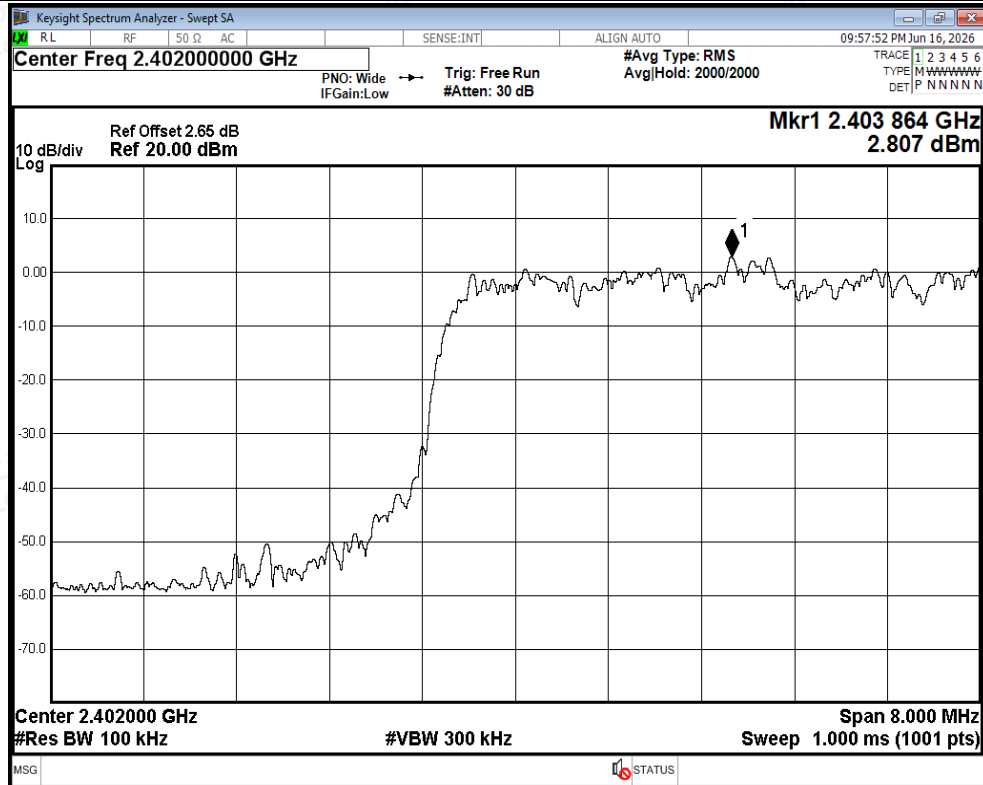


Shenzhen LCS Compliance Testing Laboratory Ltd.

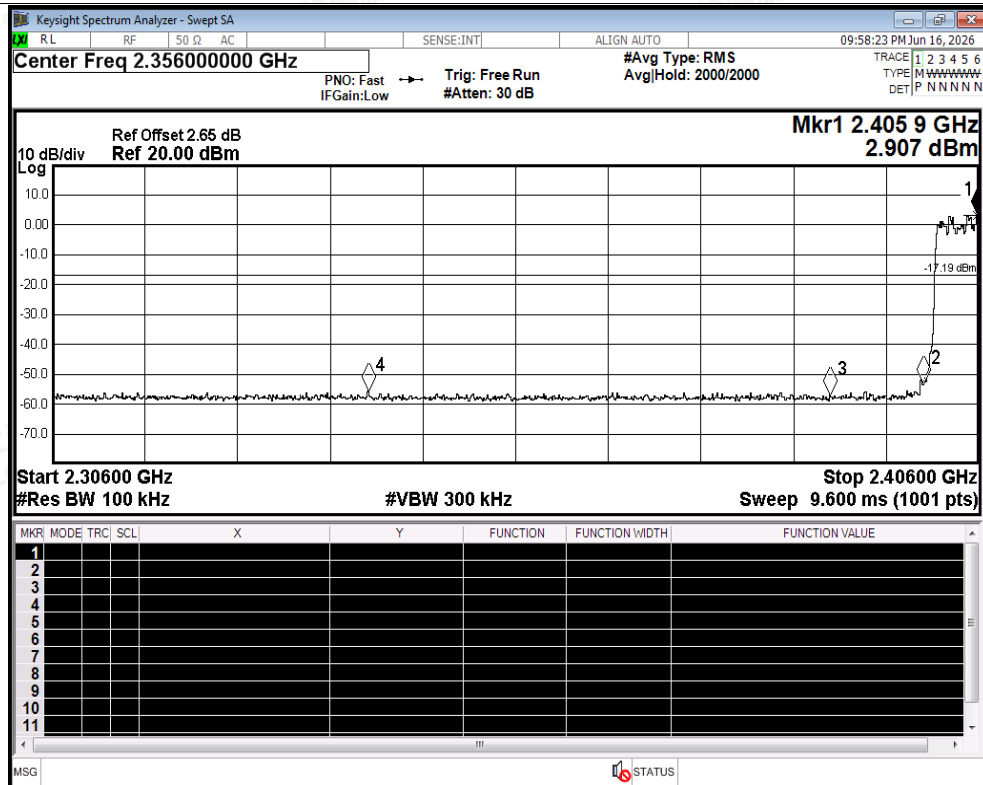
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

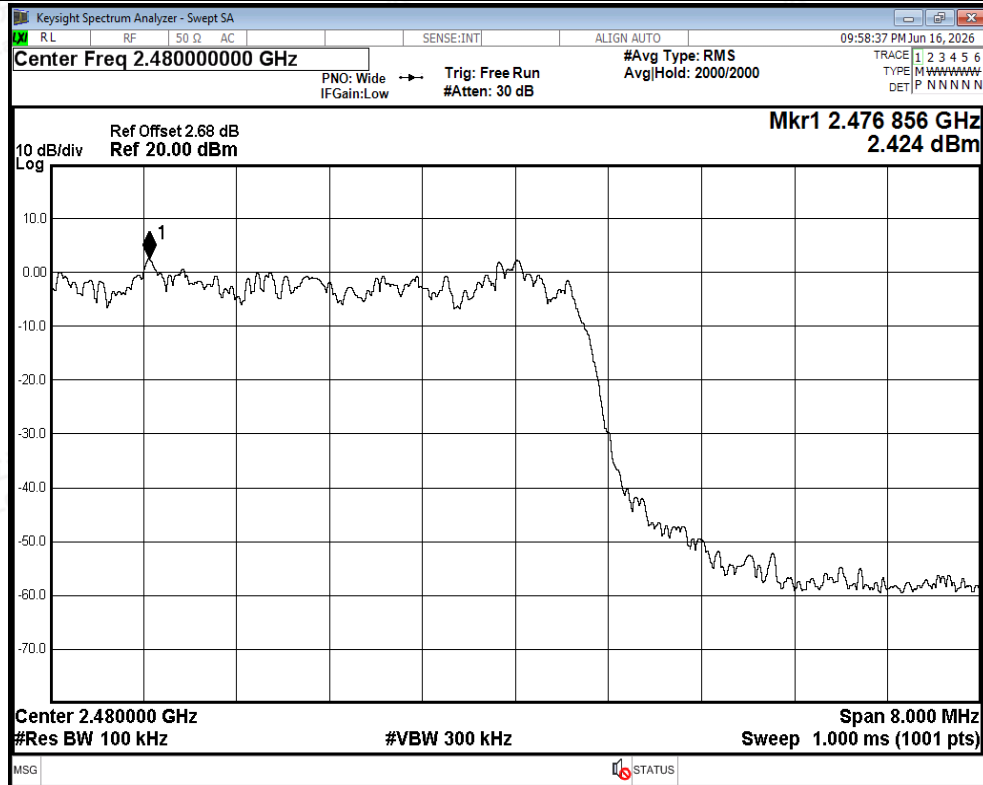


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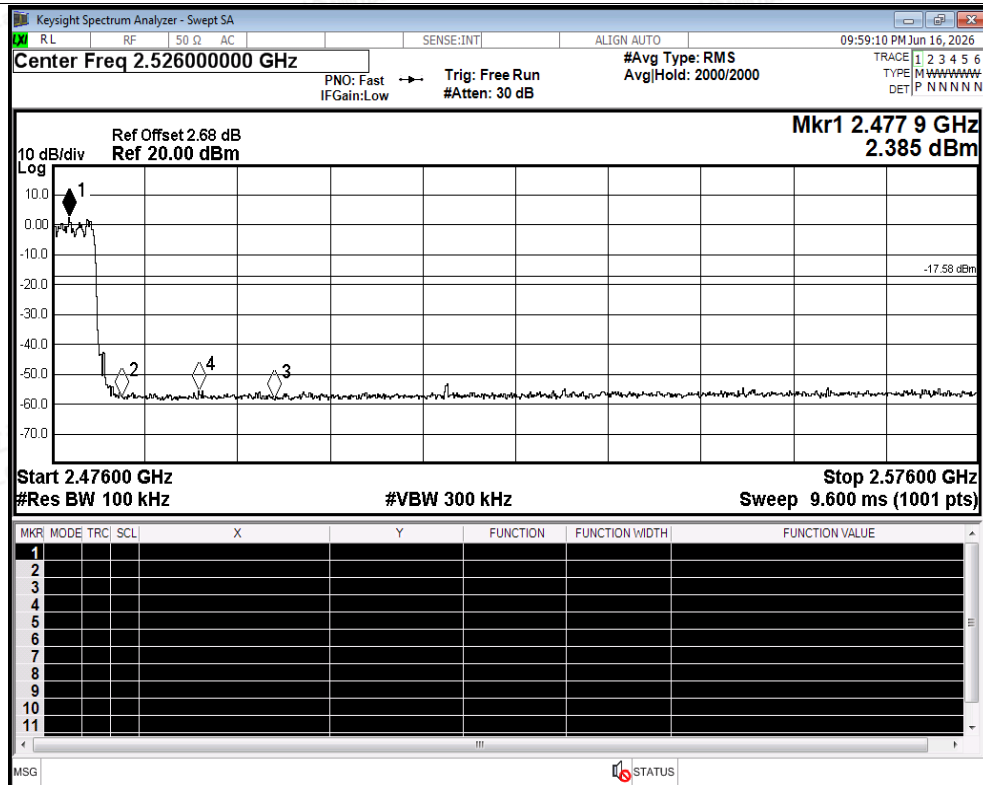
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Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-39.71	-20	Pass
NVNT	1-DH5	2441	Ant1	-38.36	-20	Pass
NVNT	1-DH5	2480	Ant1	-38.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-40.79	-20	Pass
NVNT	2-DH5	2441	Ant1	-36.28	-20	Pass
NVNT	2-DH5	2480	Ant1	-36.72	-20	Pass
NVNT	3-DH5	2402	Ant1	-38.87	-20	Pass
NVNT	3-DH5	2441	Ant1	-36.71	-20	Pass
NVNT	3-DH5	2480	Ant1	-37.8	-20	Pass

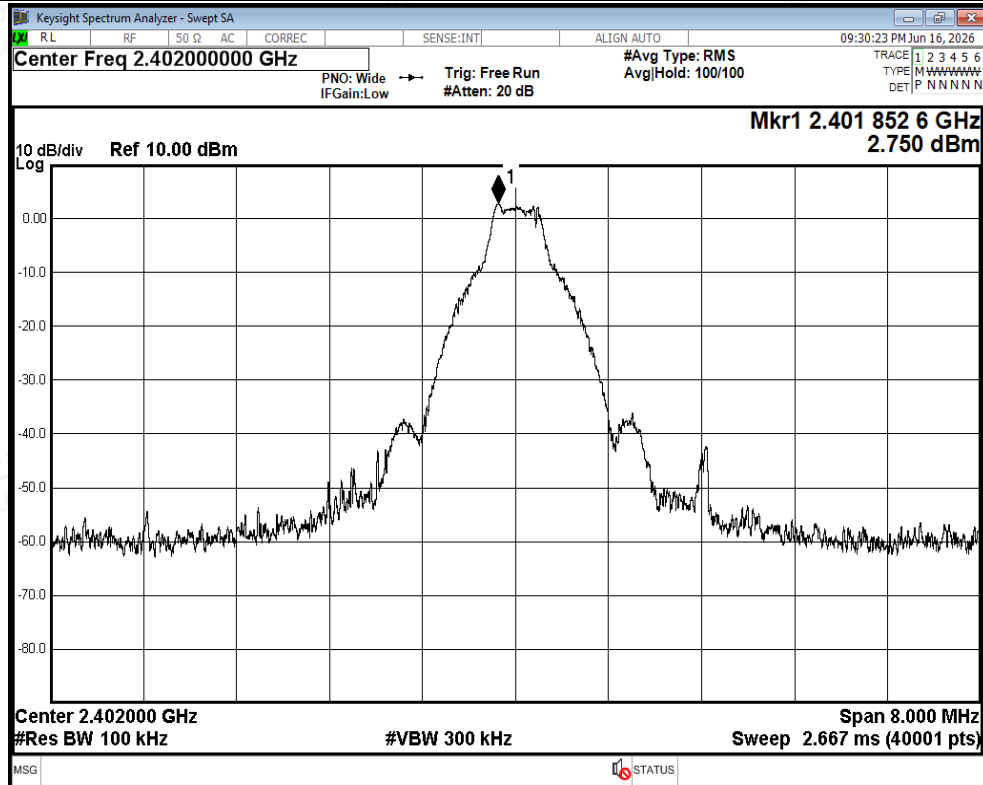


Shenzhen LCS Compliance Testing Laboratory Ltd.

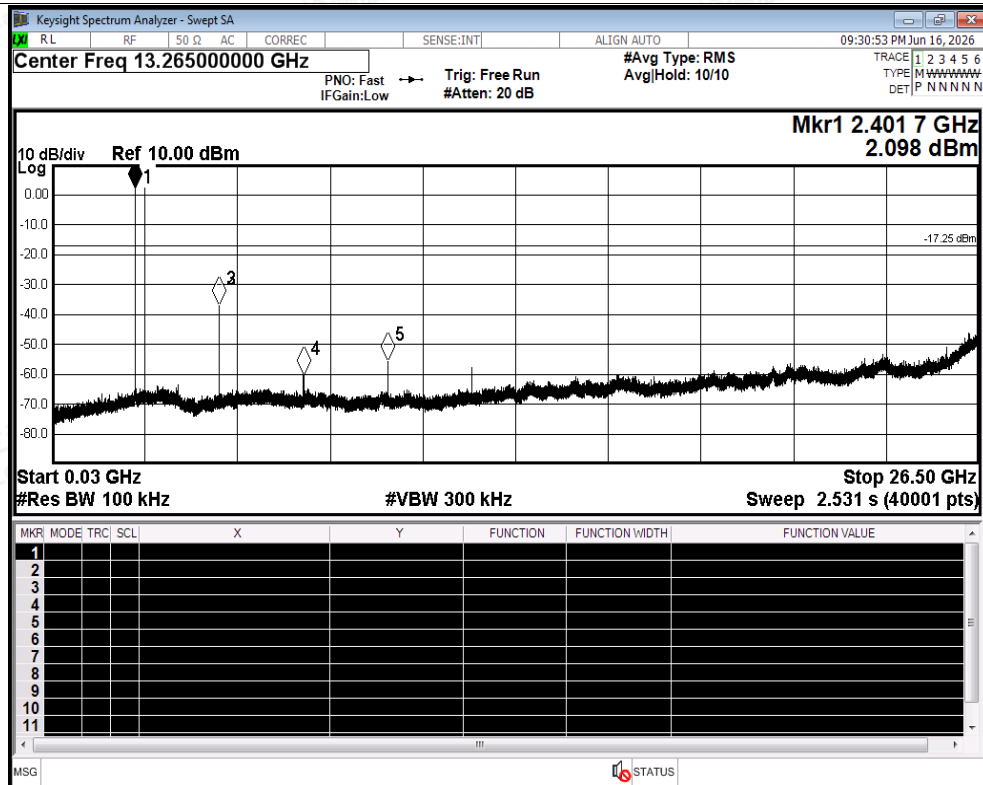
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

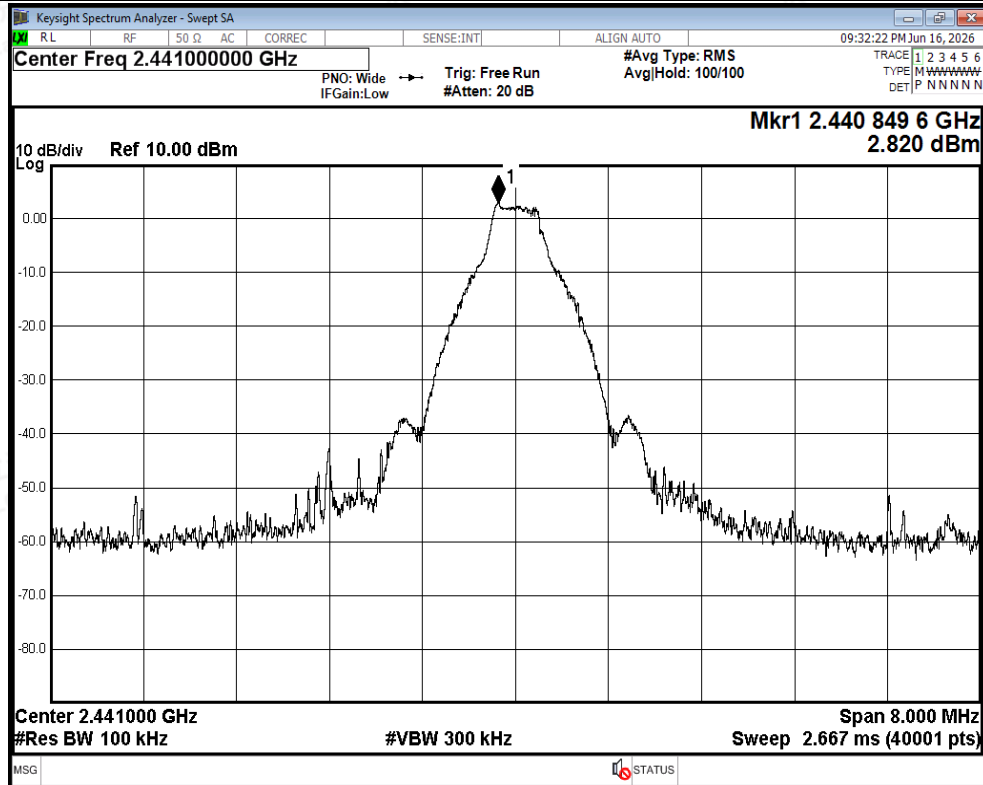


Shenzhen LCS Compliance Testing Laboratory Ltd.

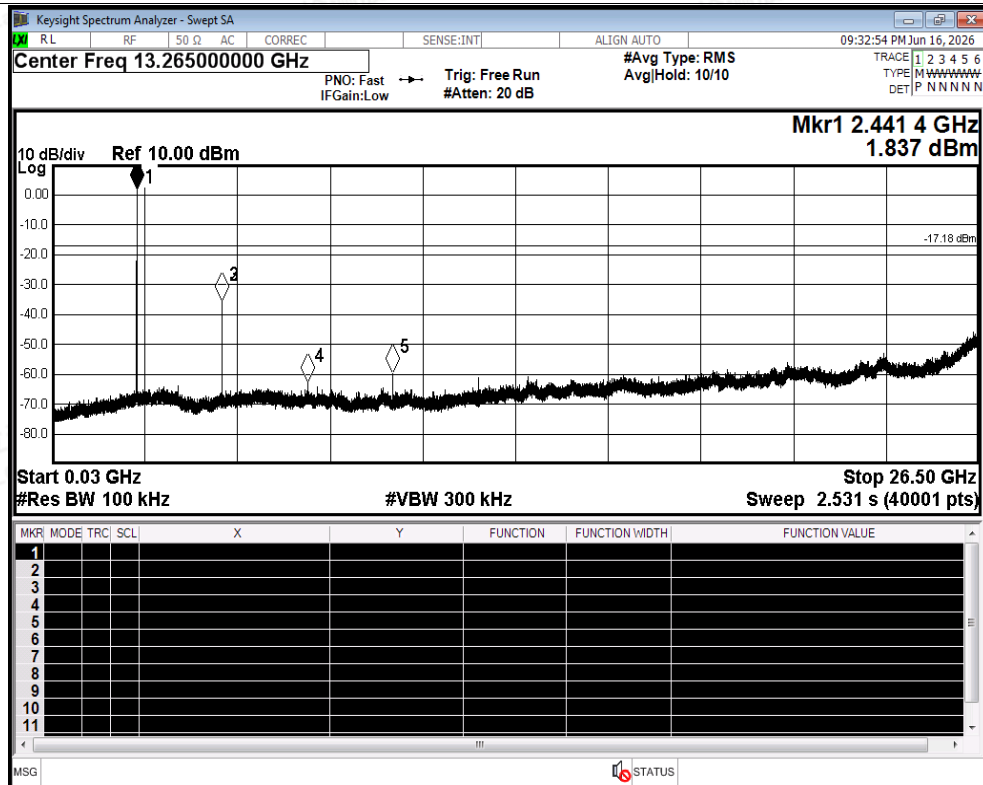
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

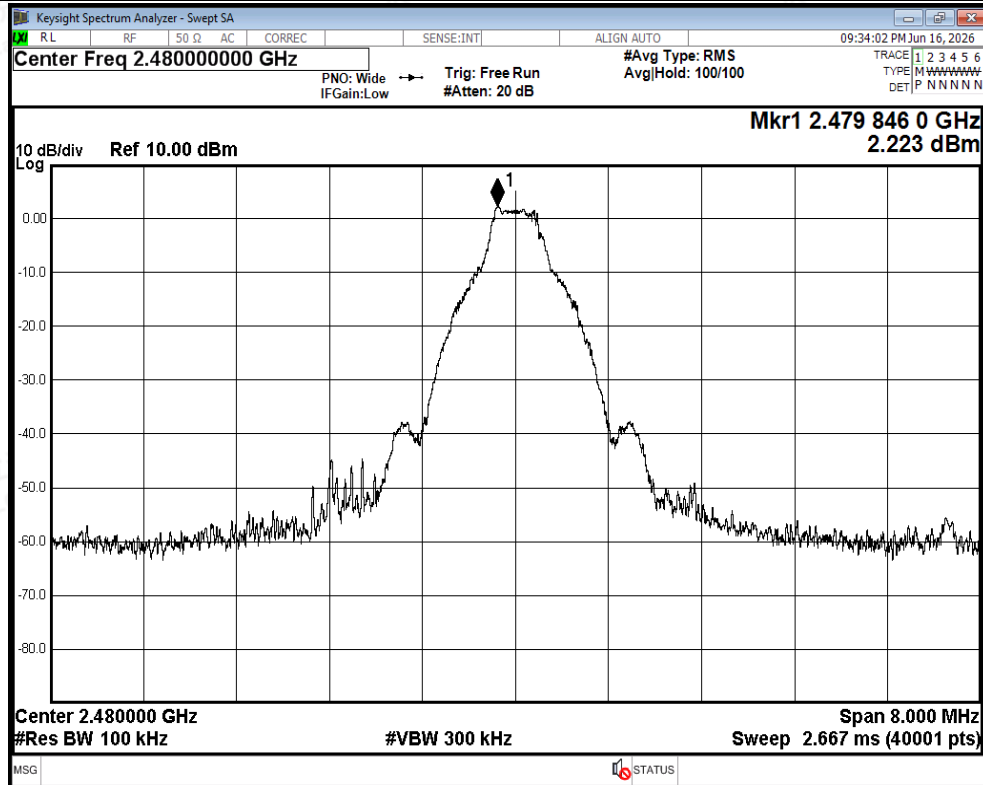


Shenzhen LCS Compliance Testing Laboratory Ltd.

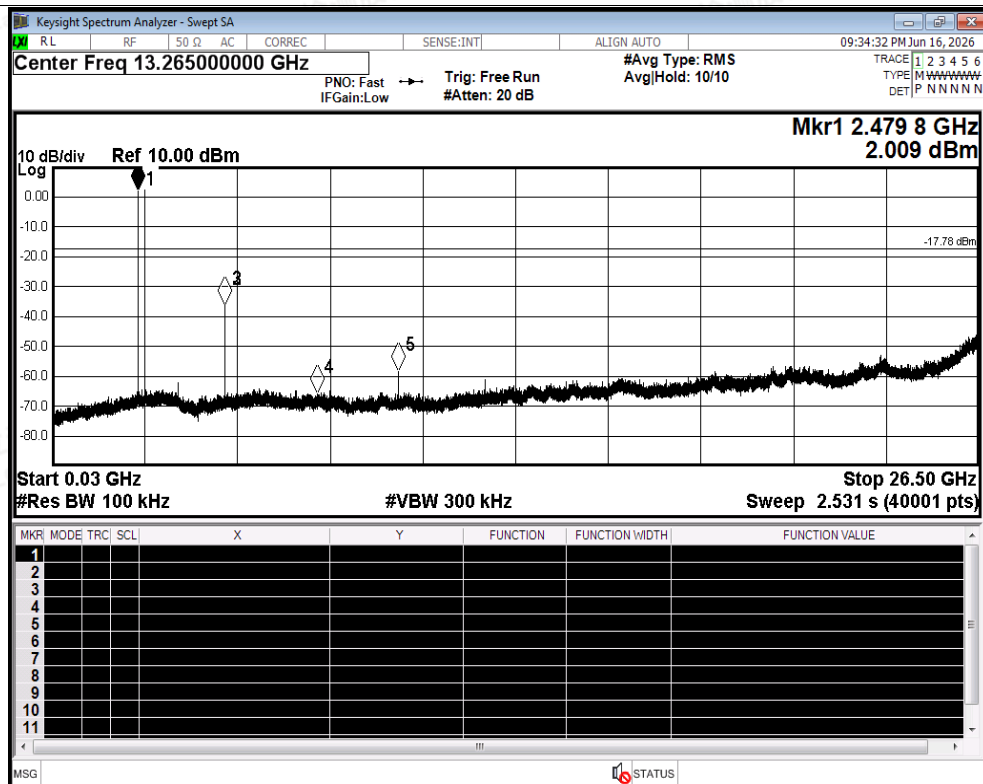
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

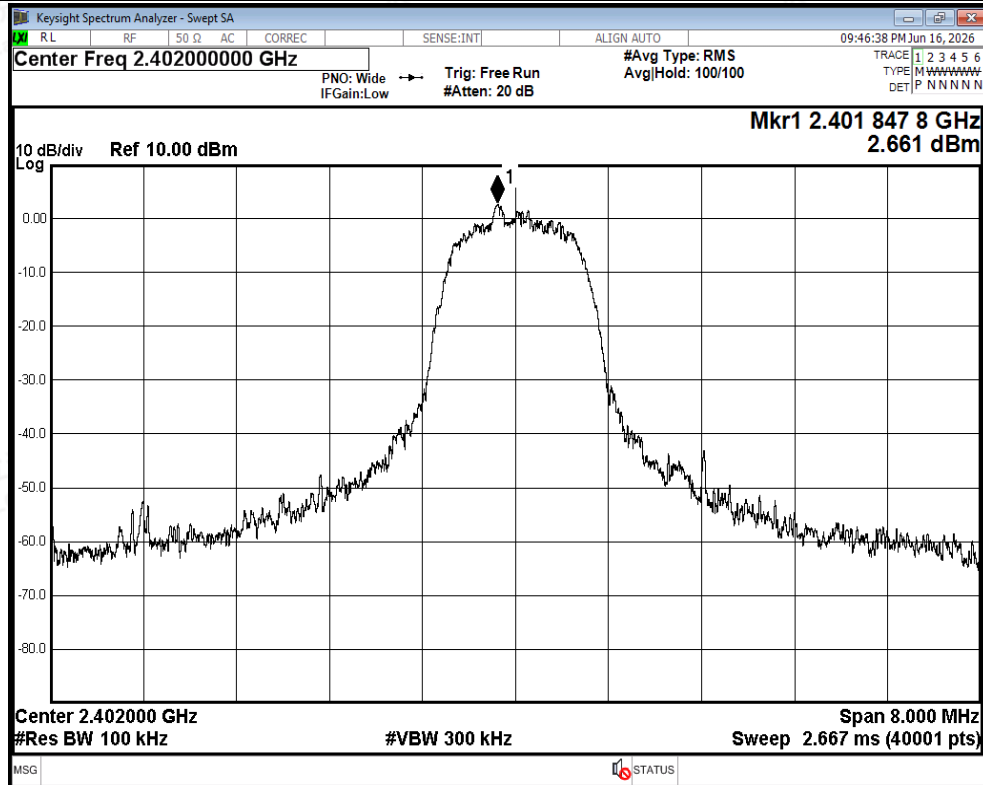


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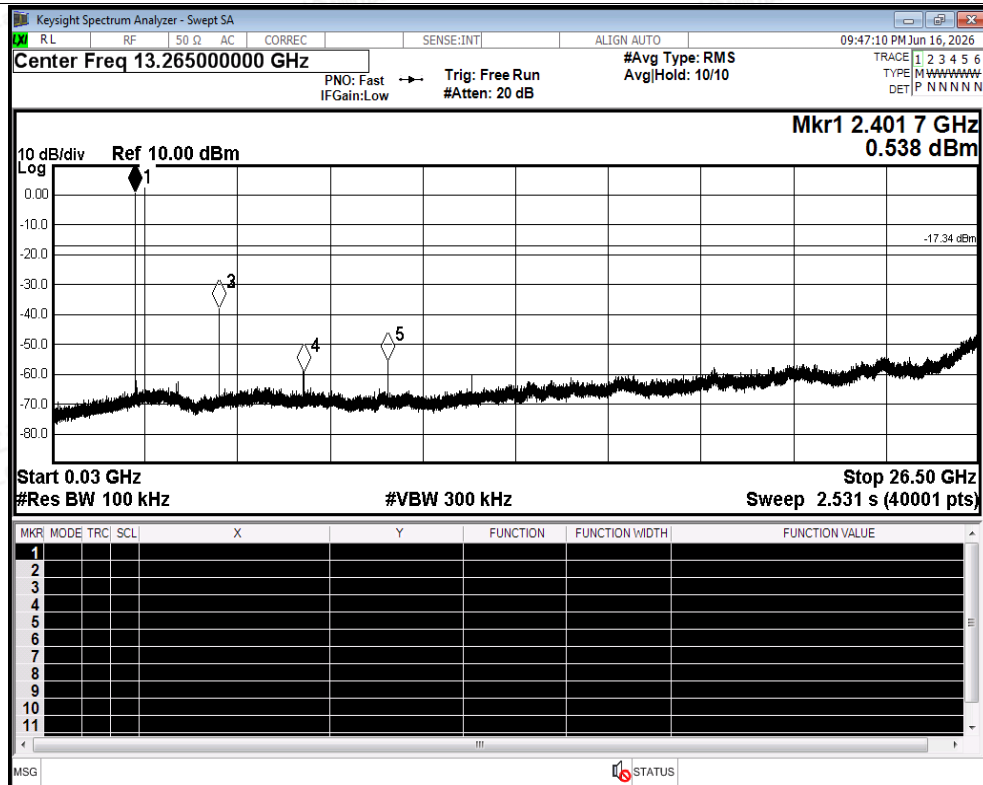
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

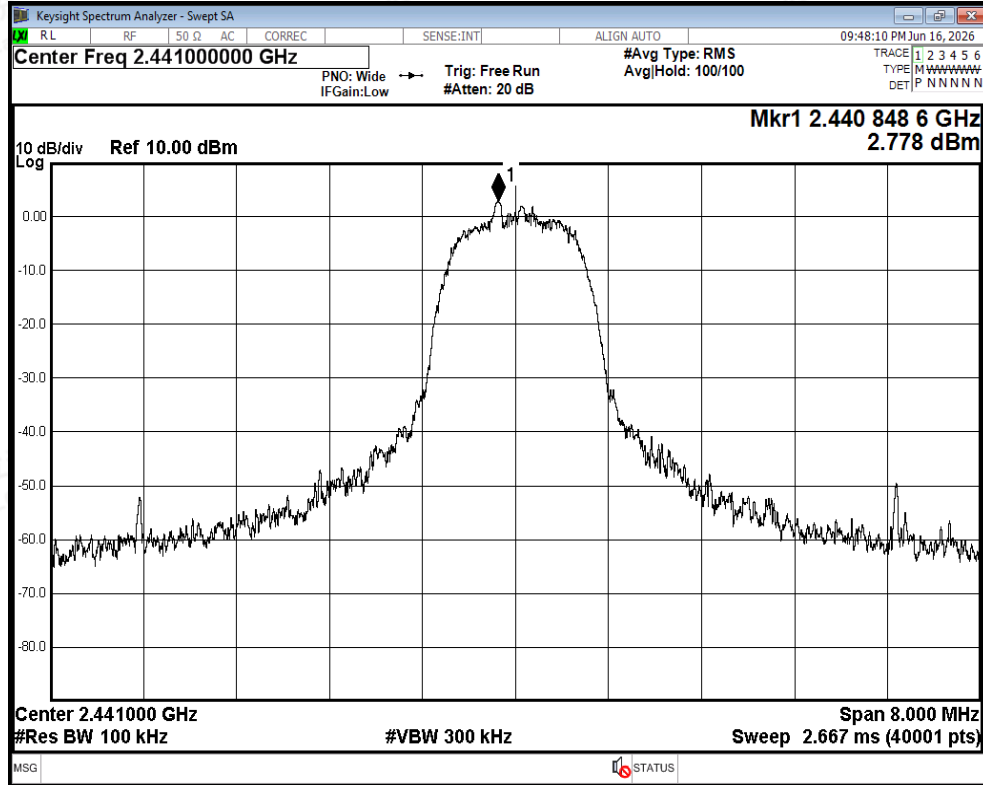


Shenzhen LCS Compliance Testing Laboratory Ltd.

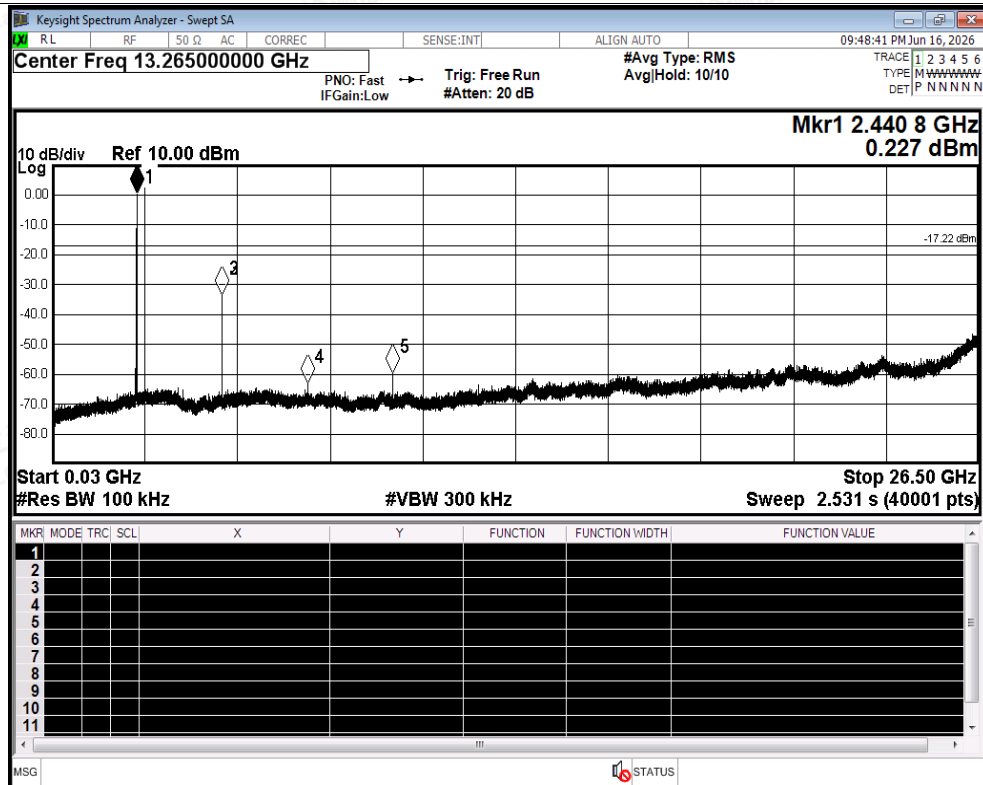
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

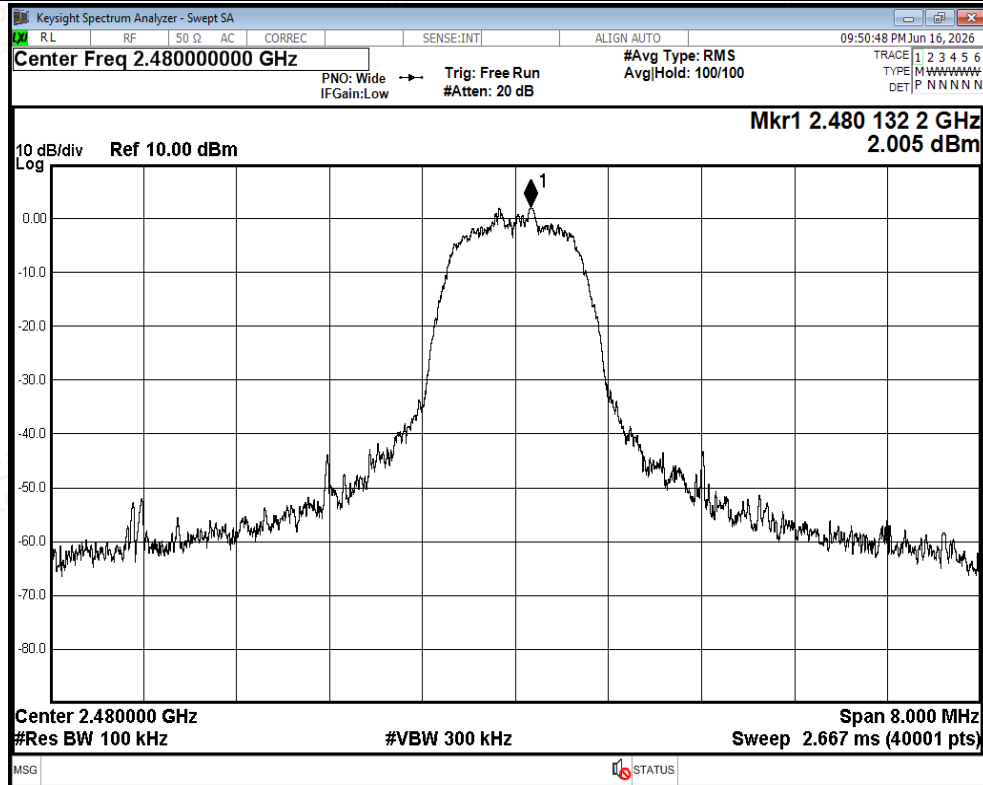


Shenzhen LCS Compliance Testing Laboratory Ltd.

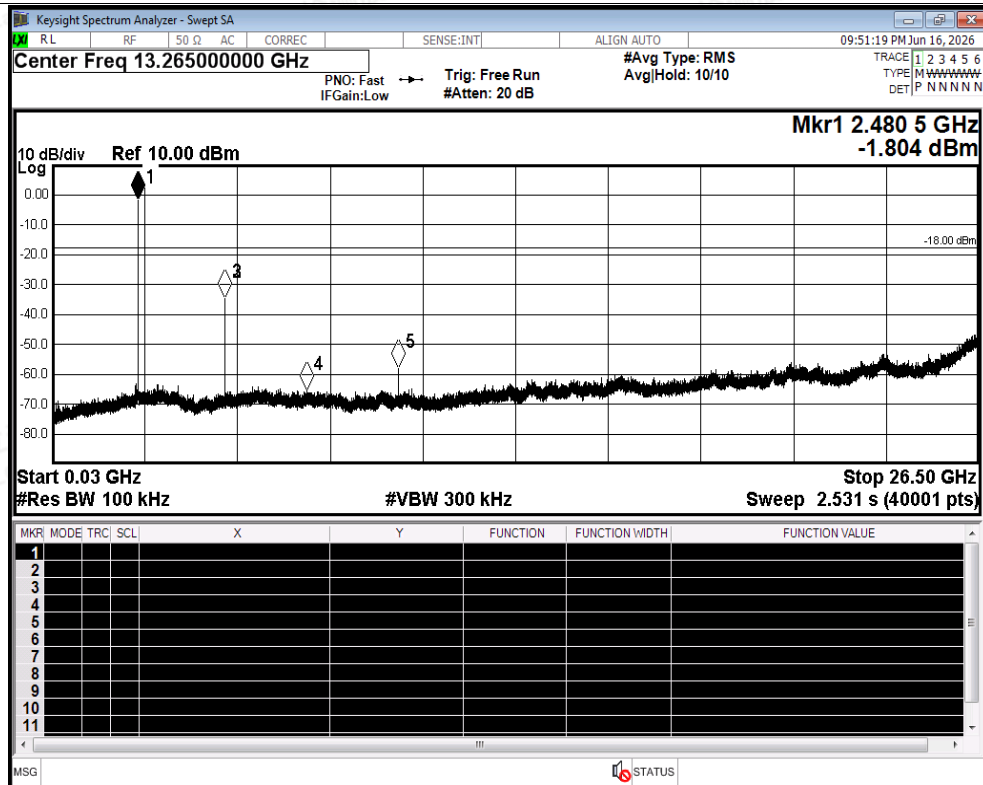
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

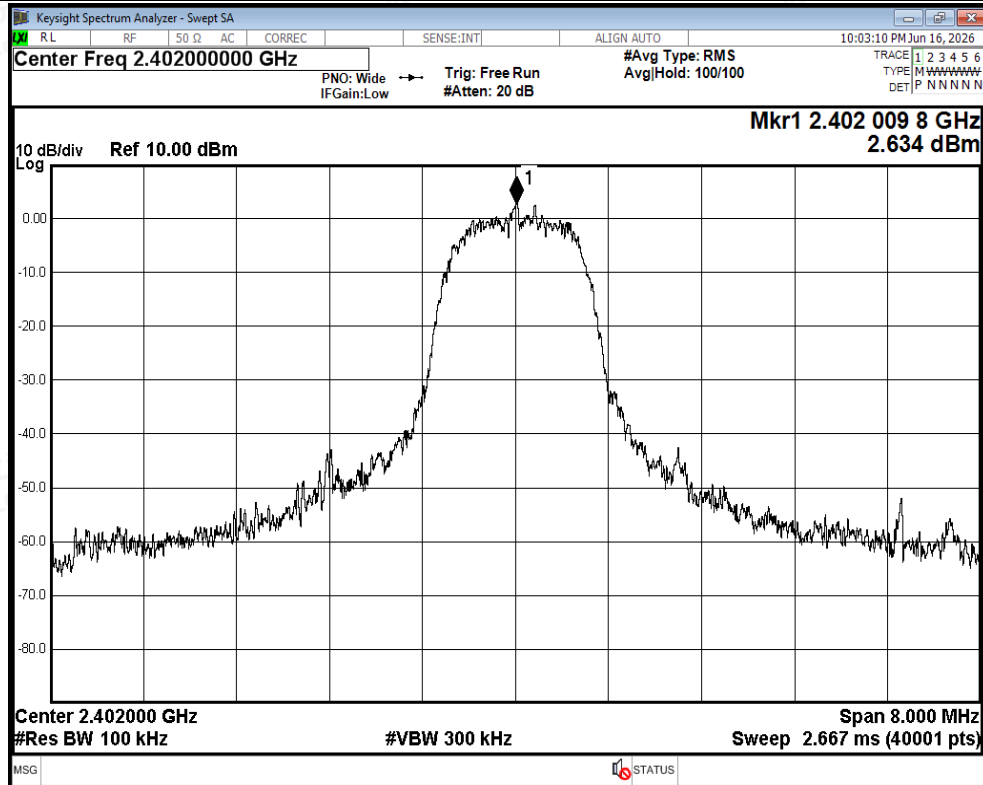


Shenzhen LCS Compliance Testing Laboratory Ltd.

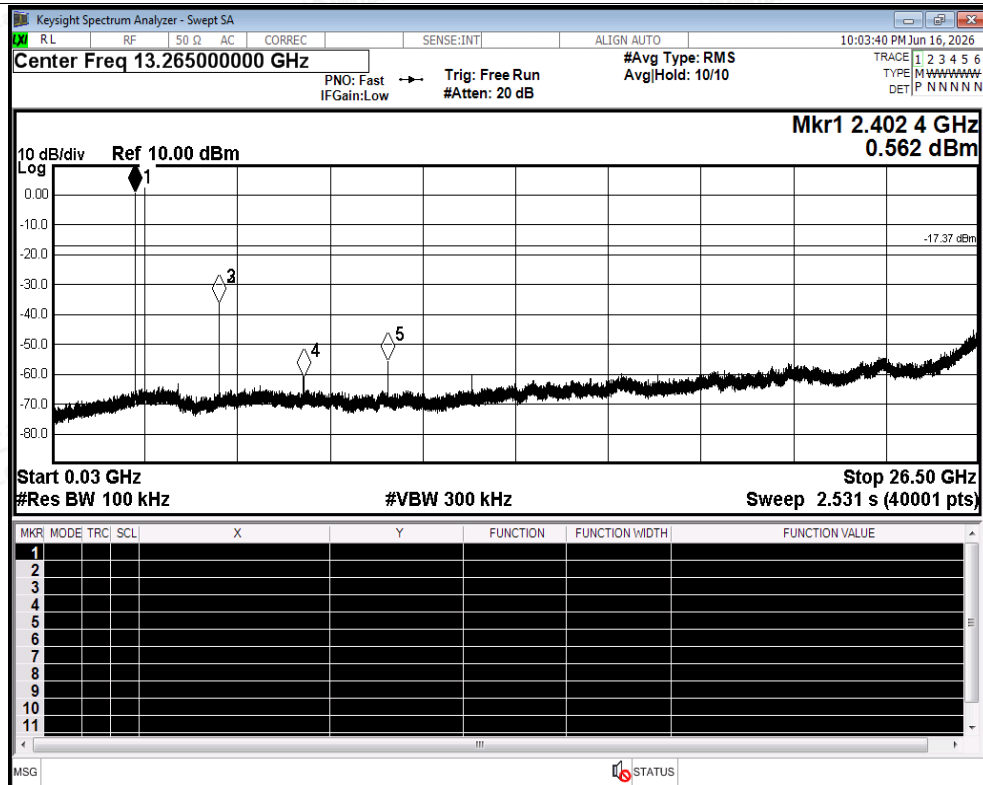
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

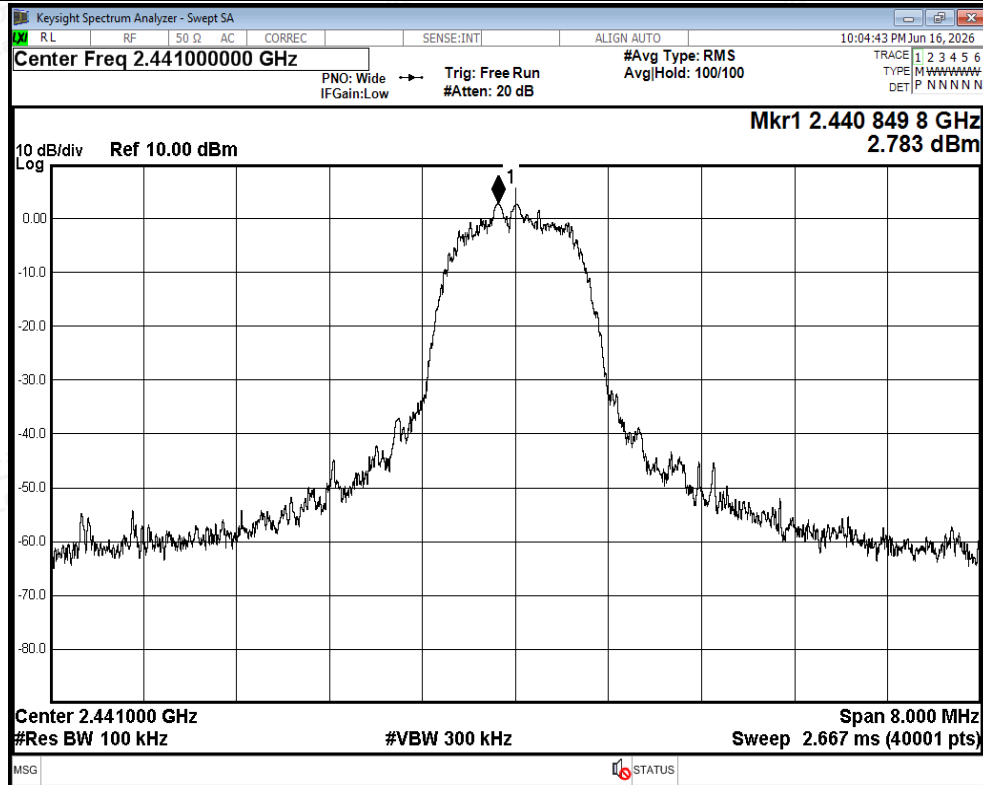


Shenzhen LCS Compliance Testing Laboratory Ltd.

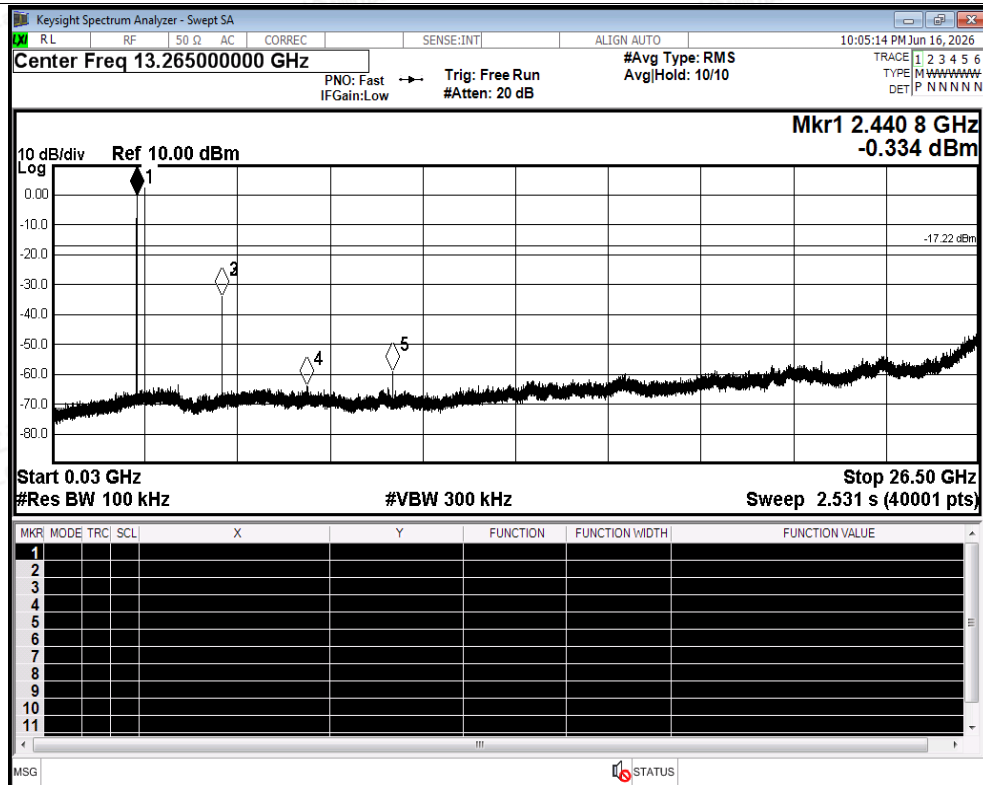
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

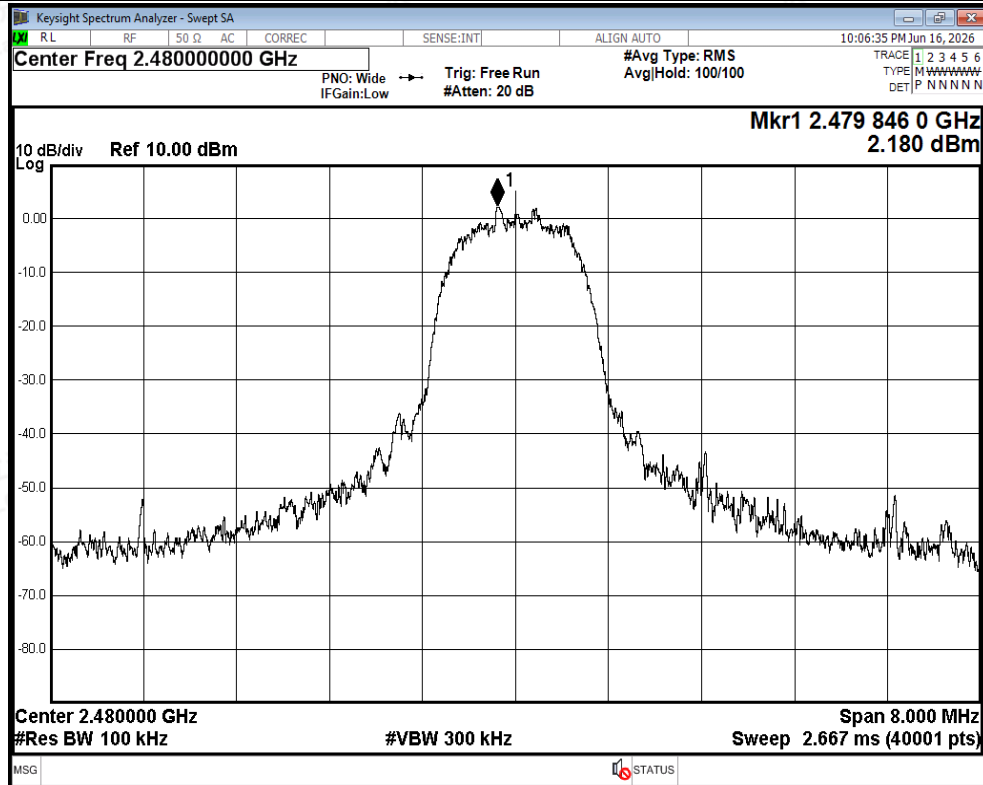


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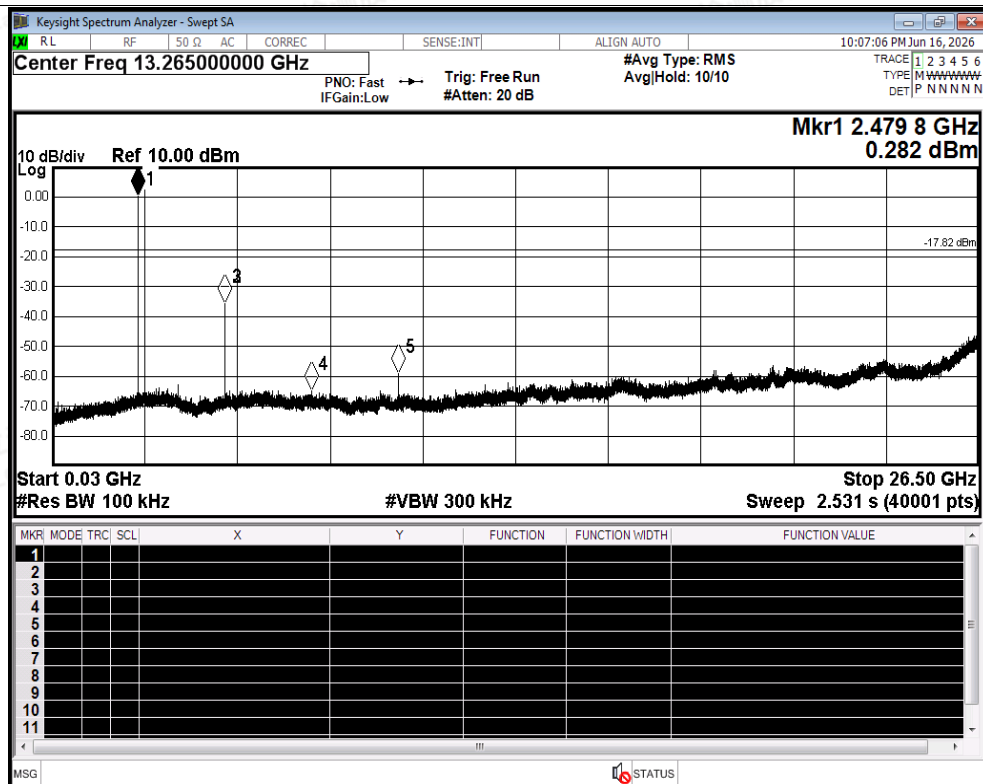
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.44	1.11	0.34
NVNT	1-DH5	2441	Ant1	77.44	1.11	0.34
NVNT	1-DH5	2480	Ant1	77.44	1.11	0.34
NVNT	2-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	3-DH5	2402	Ant1	77.68	1.1	0.34
NVNT	3-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	3-DH5	2480	Ant1	77.68	1.1	0.34

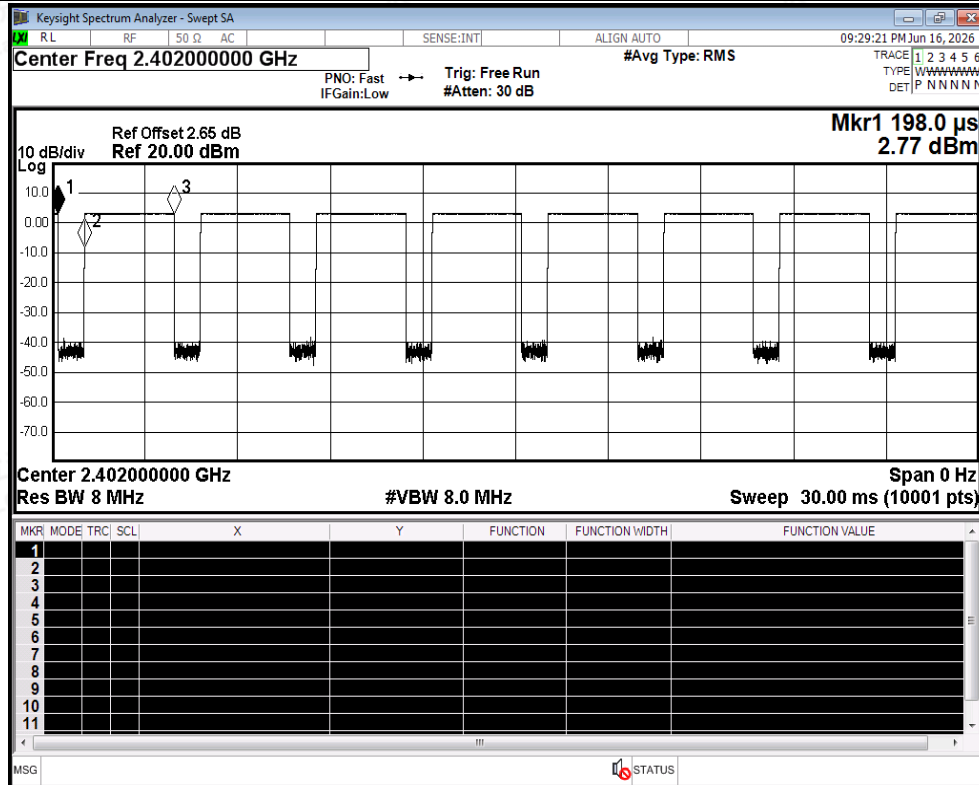


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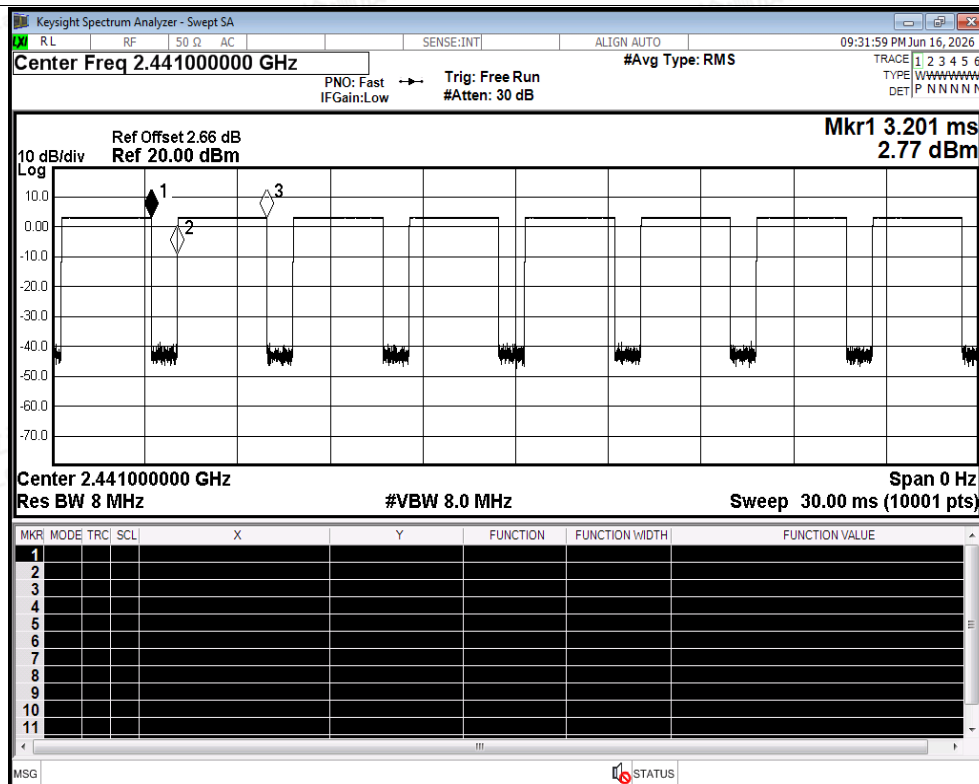
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Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

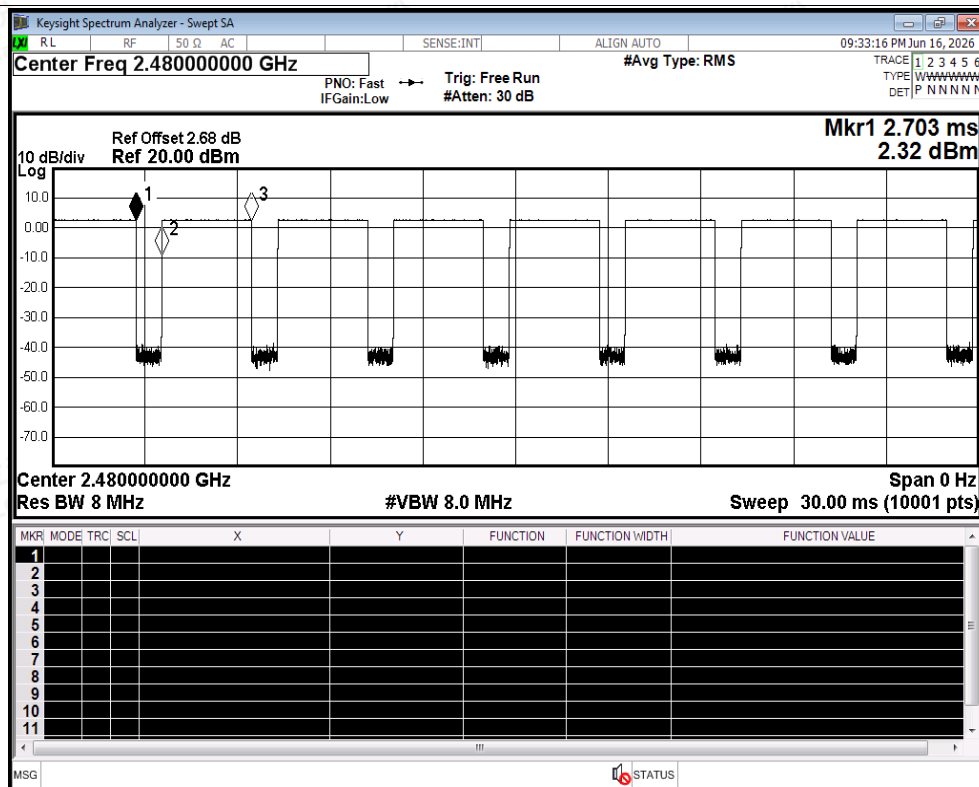


Shenzhen LCS Compliance Testing Laboratory Ltd.

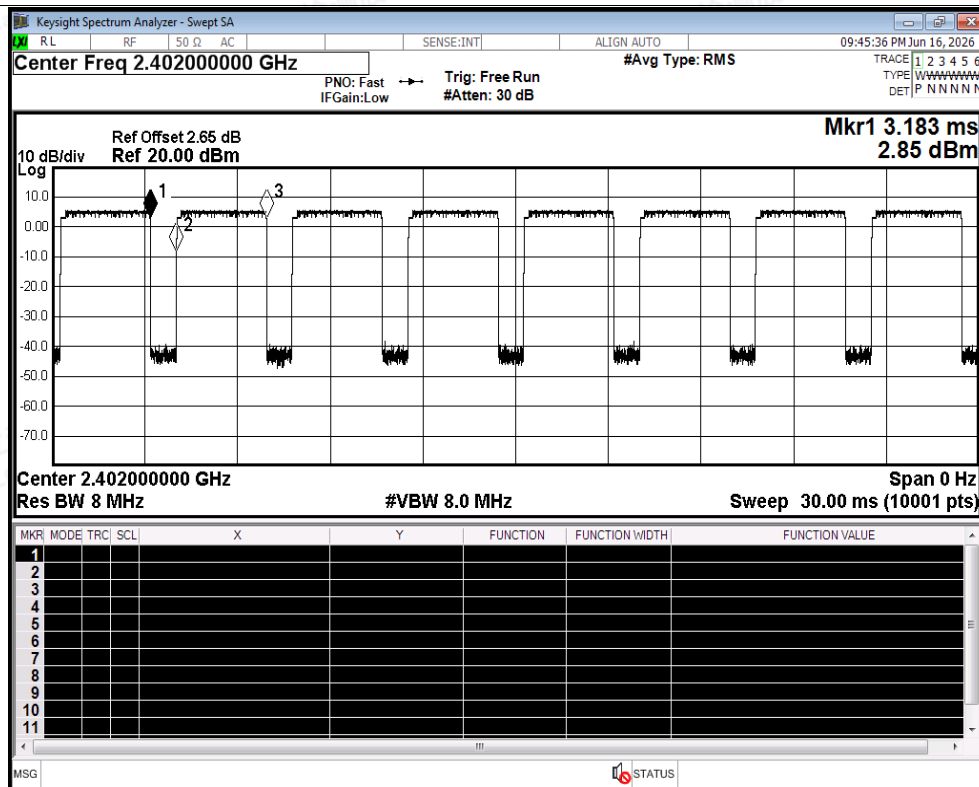
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1

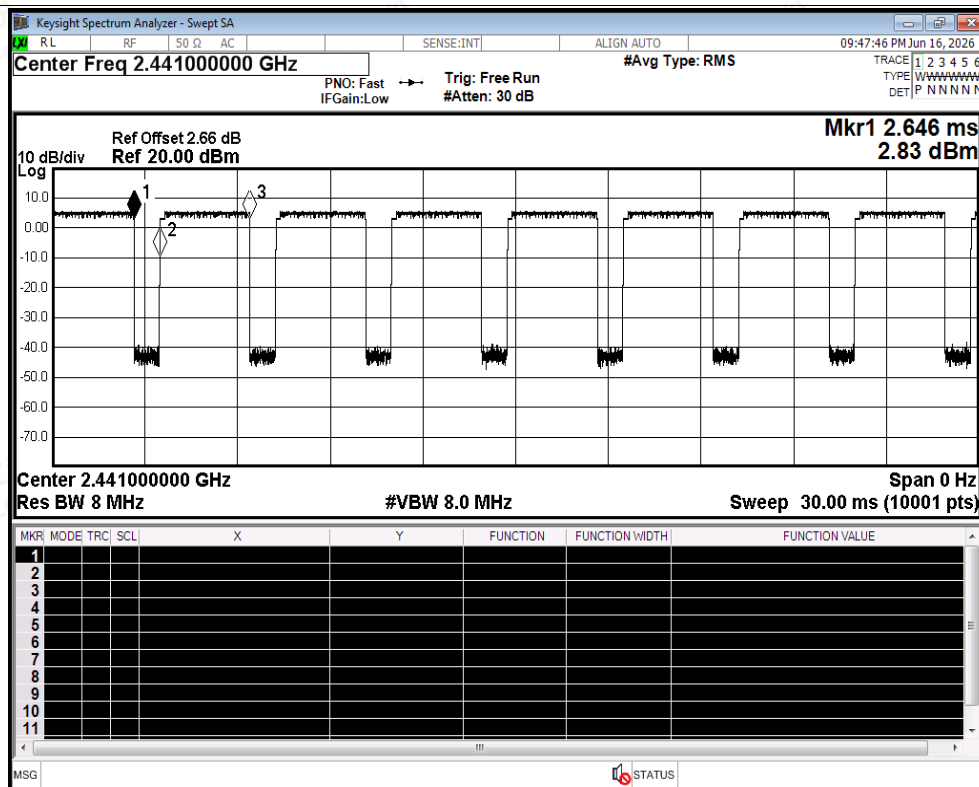


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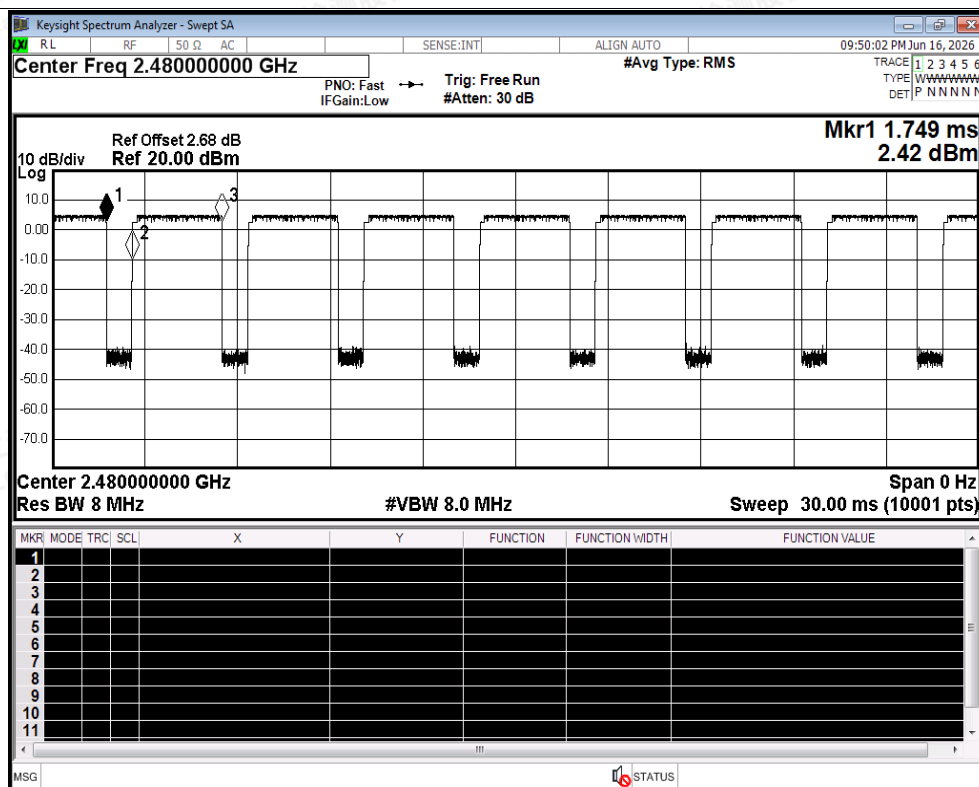
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1

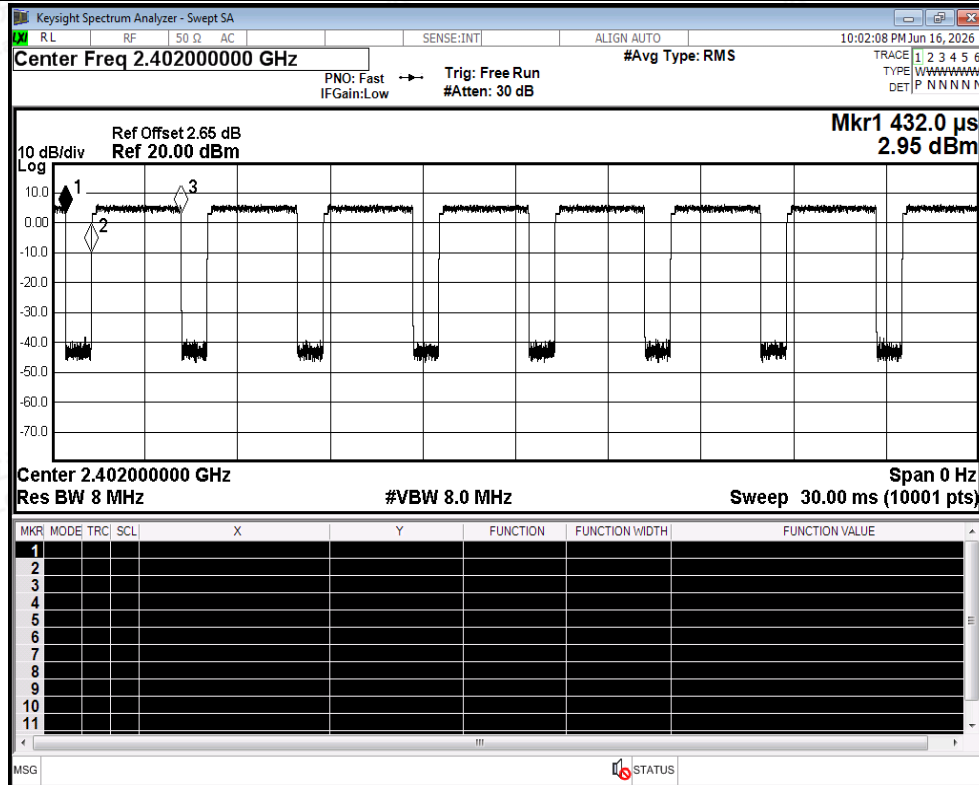


Shenzhen LCS Compliance Testing Laboratory Ltd.

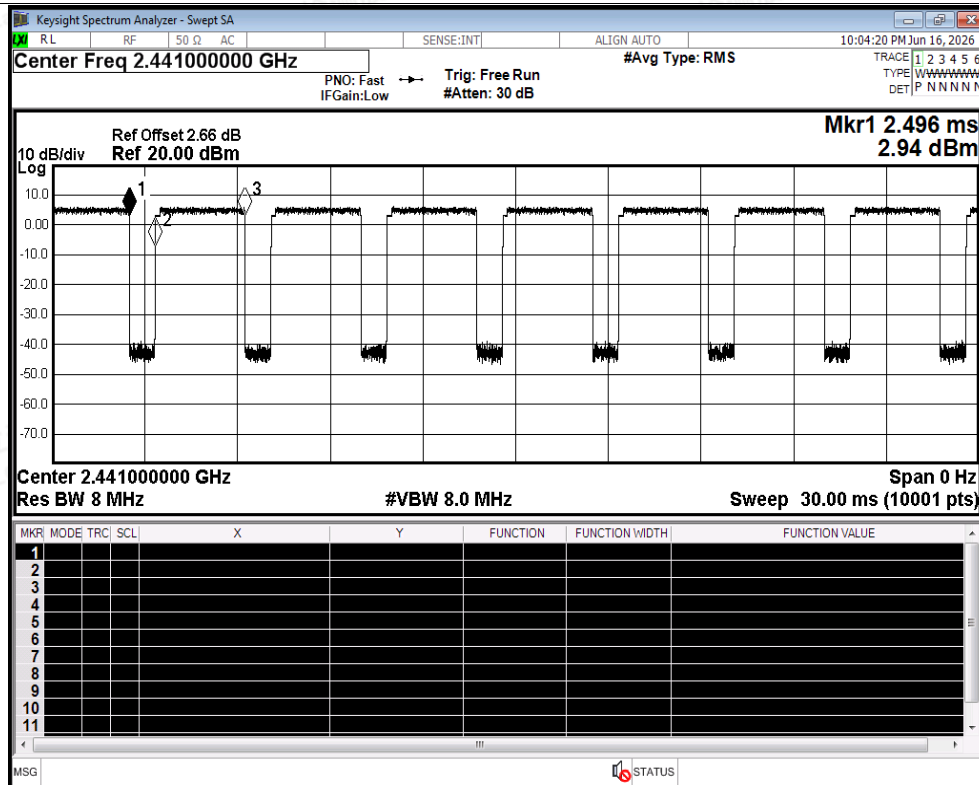
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

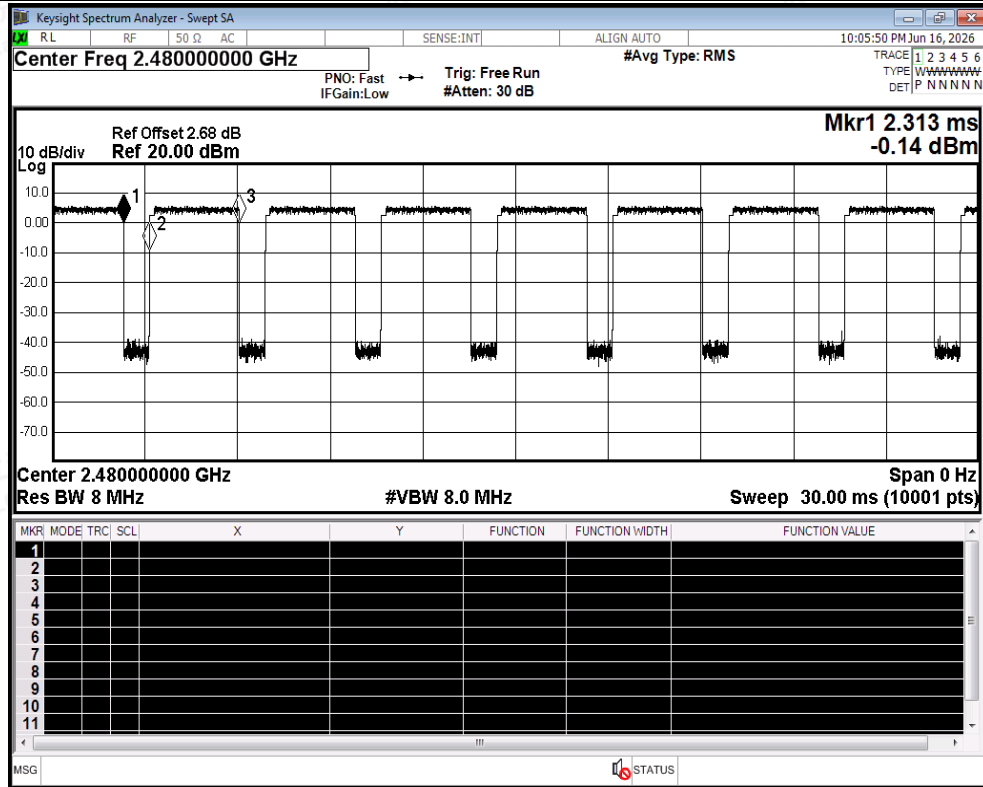


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Duty Cycle NVNT 3-DH5 2480MHz Ant1



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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	Ant1	No-Hopping	2310	-48.92	2	48.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.1	2	40.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.776	-47.04	2	50.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.2	-56.73	2	40.53	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.57	2	46.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-56.91	2	40.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-46.95	2	50.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-52.91	2	44.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.704	-45.71	2	51.55	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-52.91	2	44.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.52	2	48.74	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.84	2	40.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.24	2	47.02	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.04	2	40.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2329.008	-46.7	2	50.56	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.392	-56.8	2	40.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.58	2	46.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-56.94	2	40.32	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-45.28	2	51.98	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.35	2	44.91	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.944	-45.15	2	52.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-52.35	2	44.91	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.18	2	47.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.86	2	40.4	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.53	2	46.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.03	2	40.23	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.6	-46.74	2	50.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.76	-56.79	2	40.47	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48.83	2	48.43	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-56.92	2	40.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.42	2	50.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.37	2	44.89	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-45.21	2	52.05	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-52.37	2	44.89	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.06	2	48.2	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.94	2	40.32	Average	54	Pass

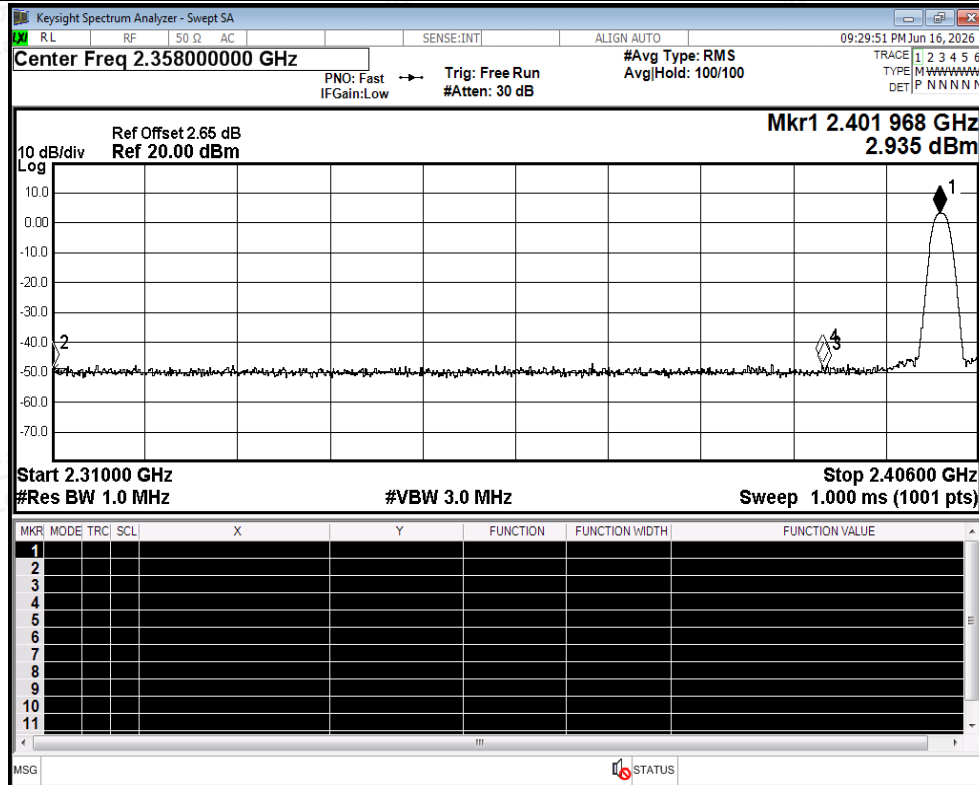


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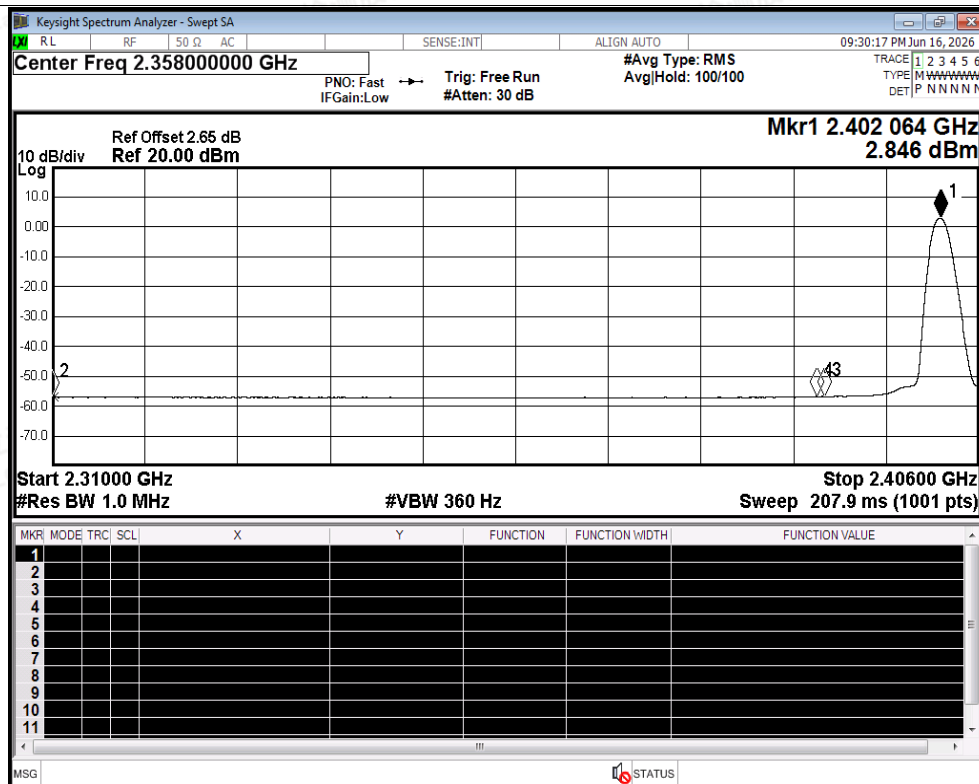
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Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

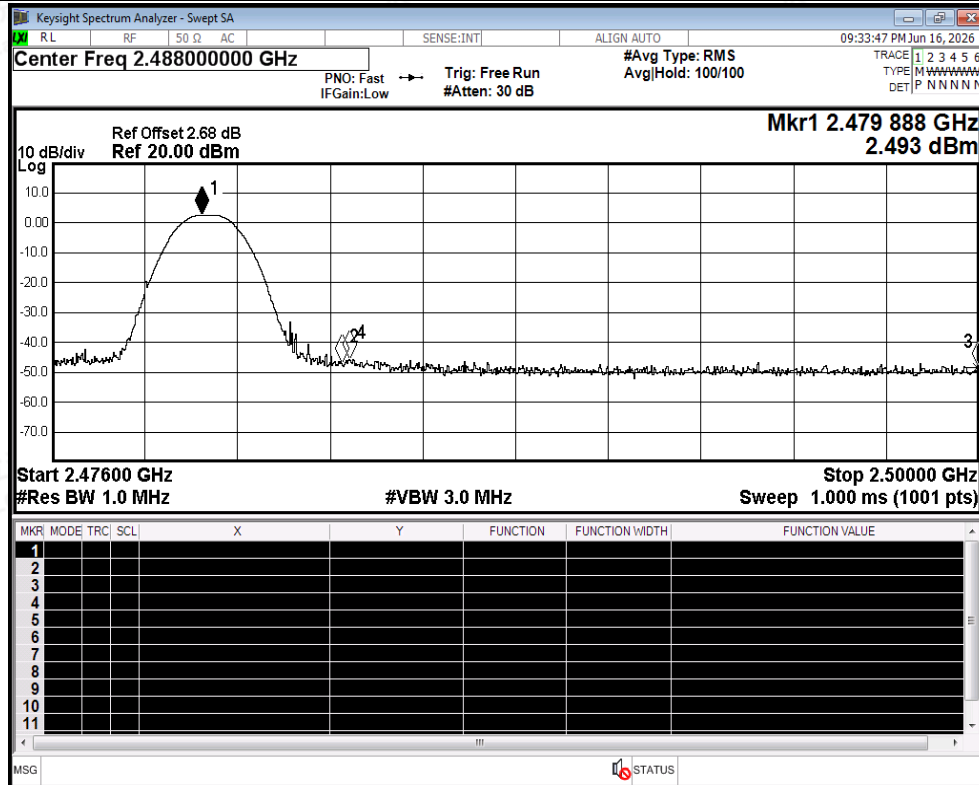


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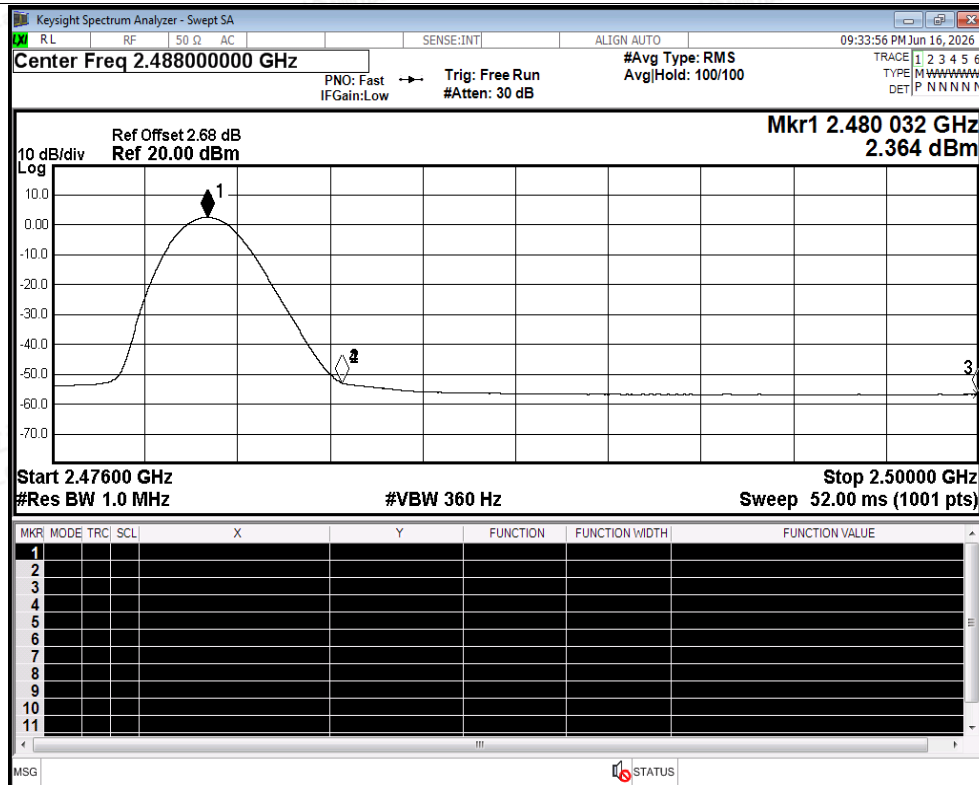
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

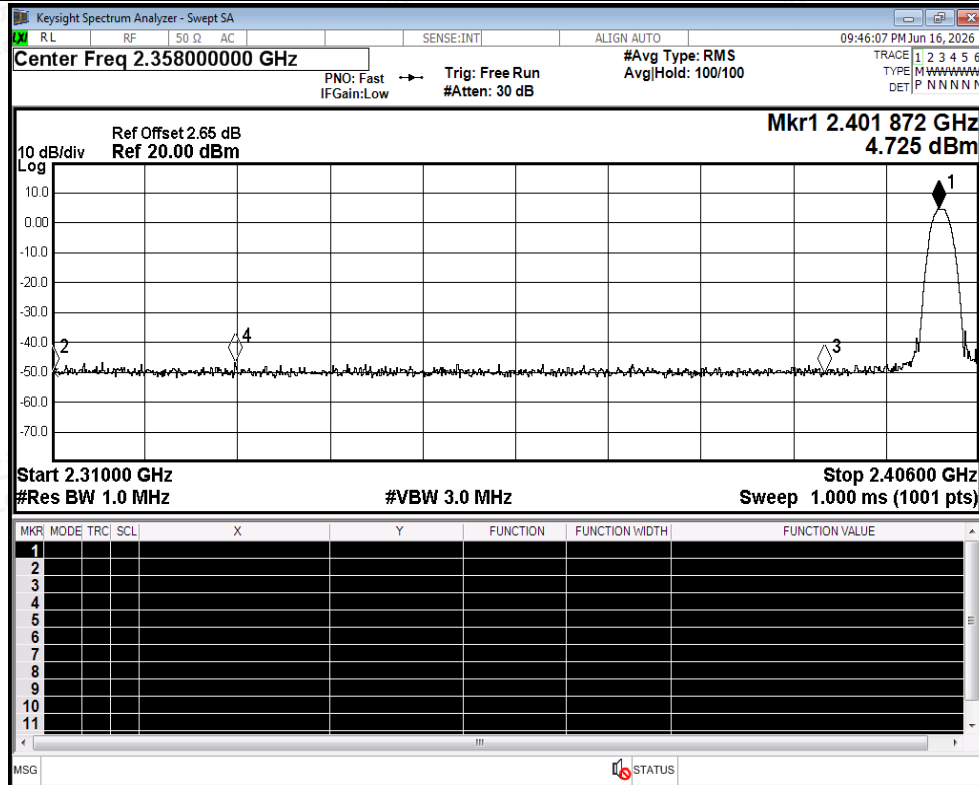


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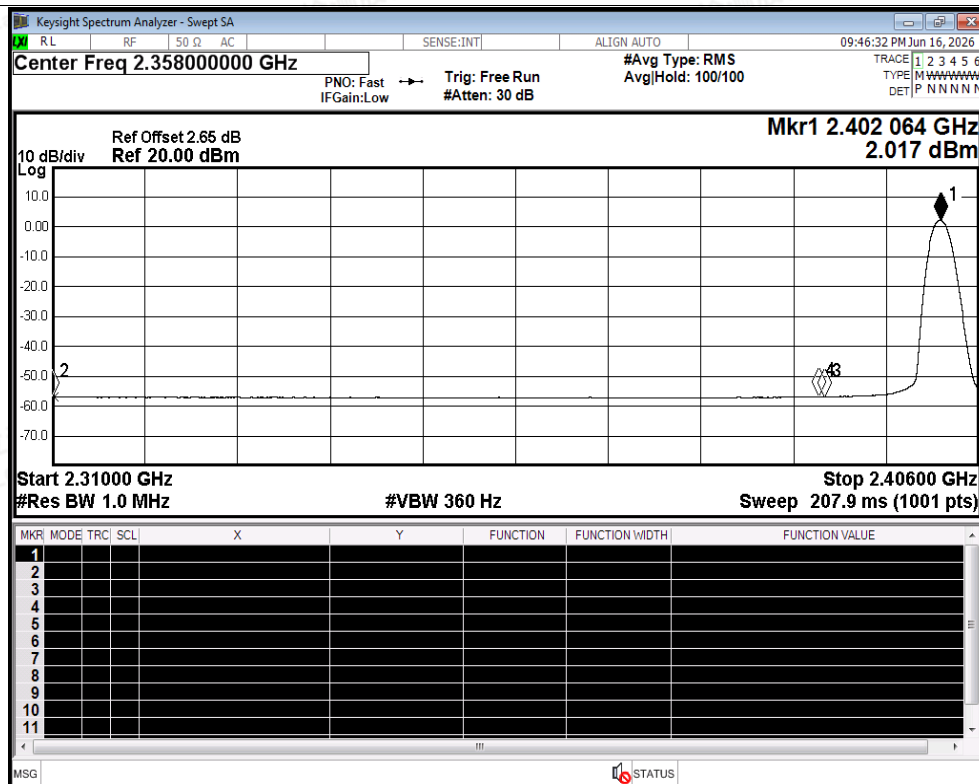
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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

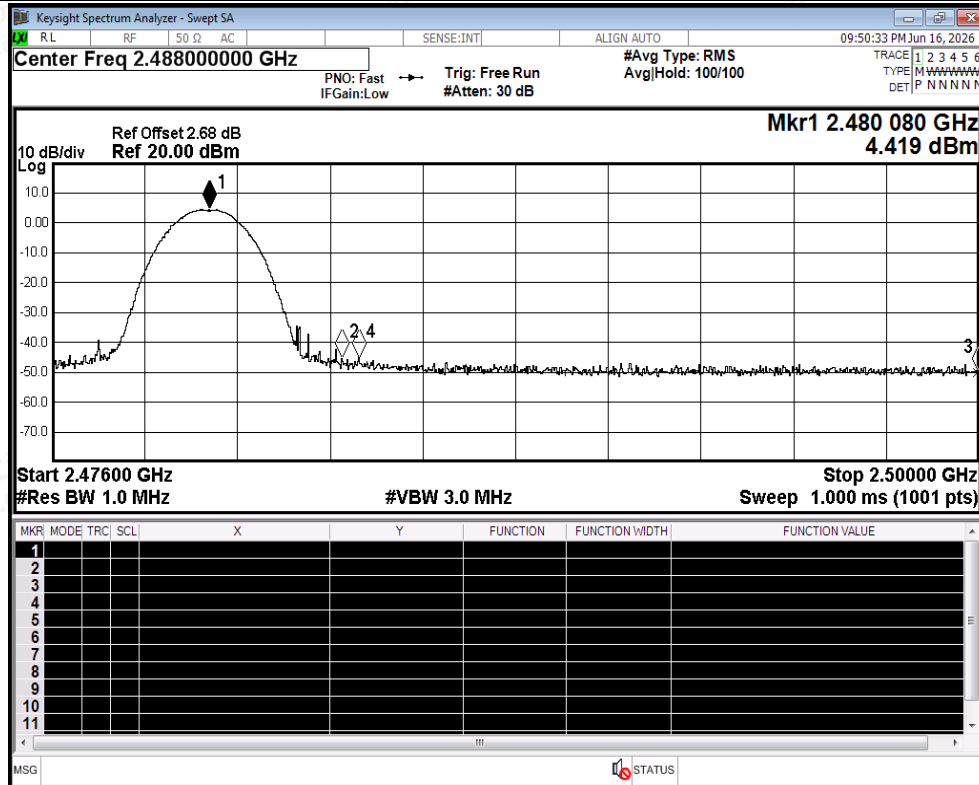


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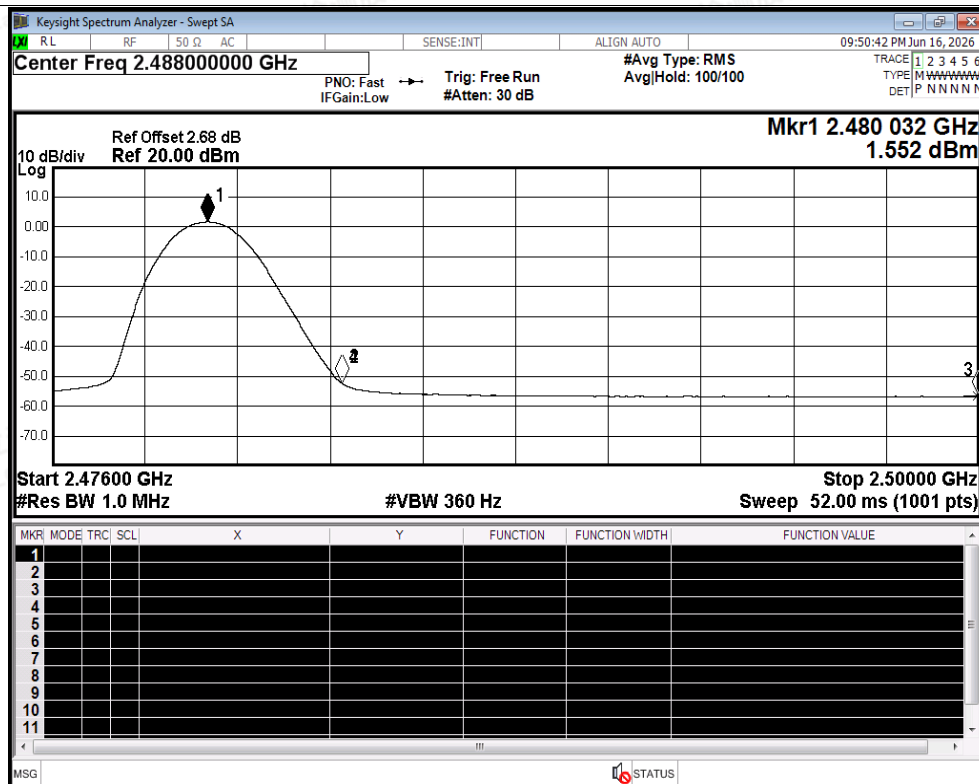
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

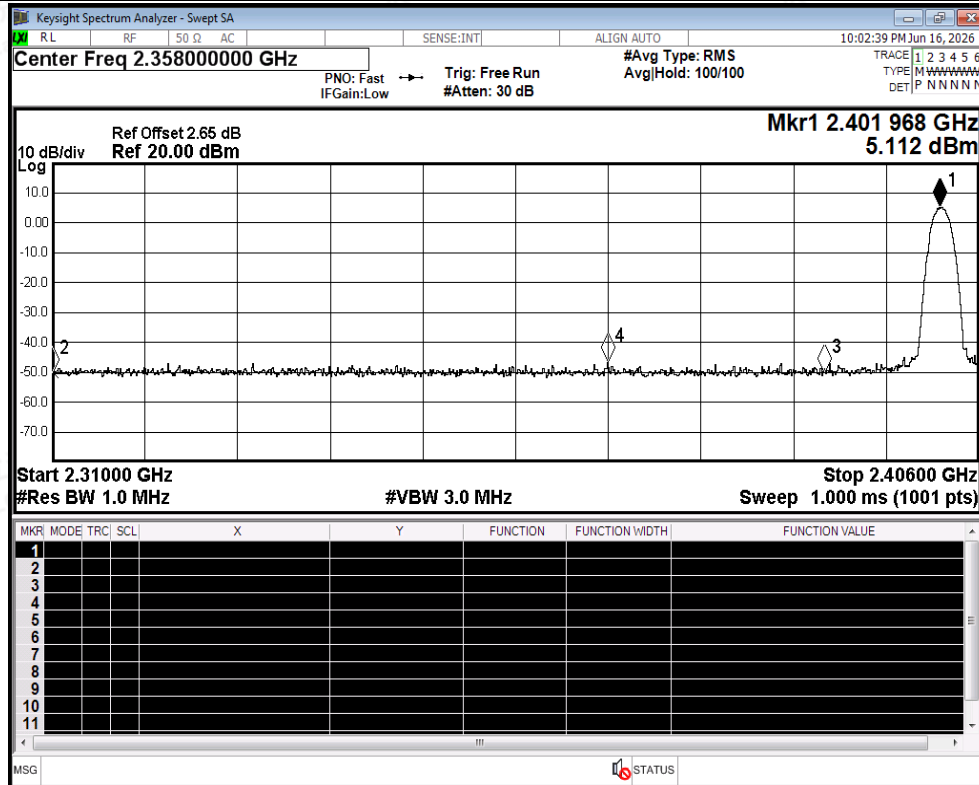


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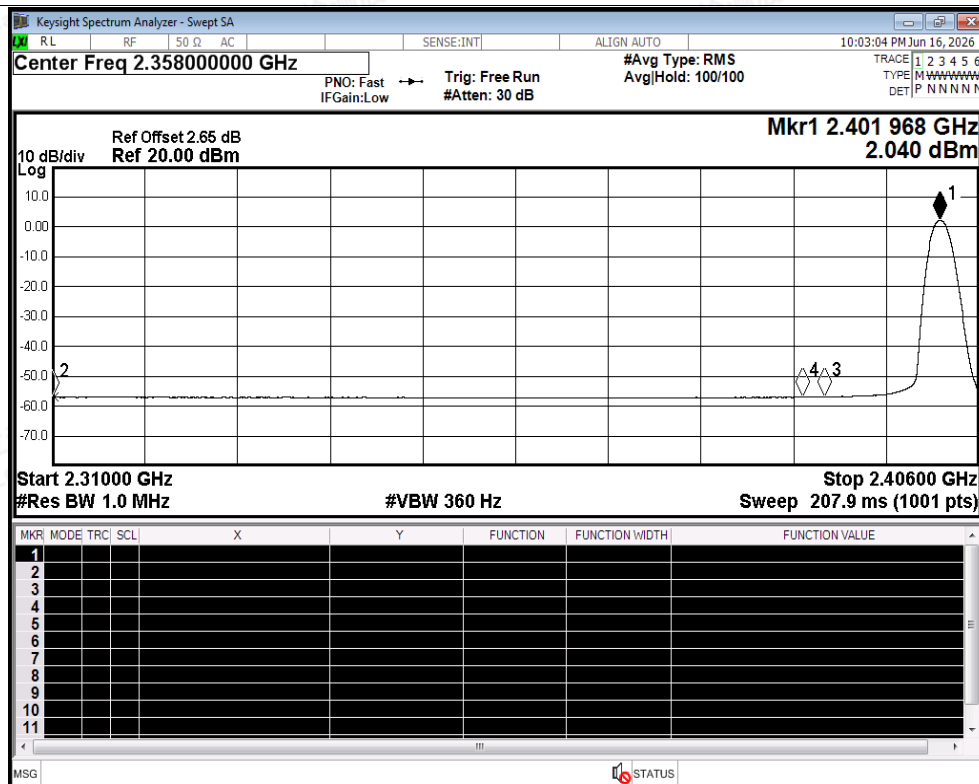
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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

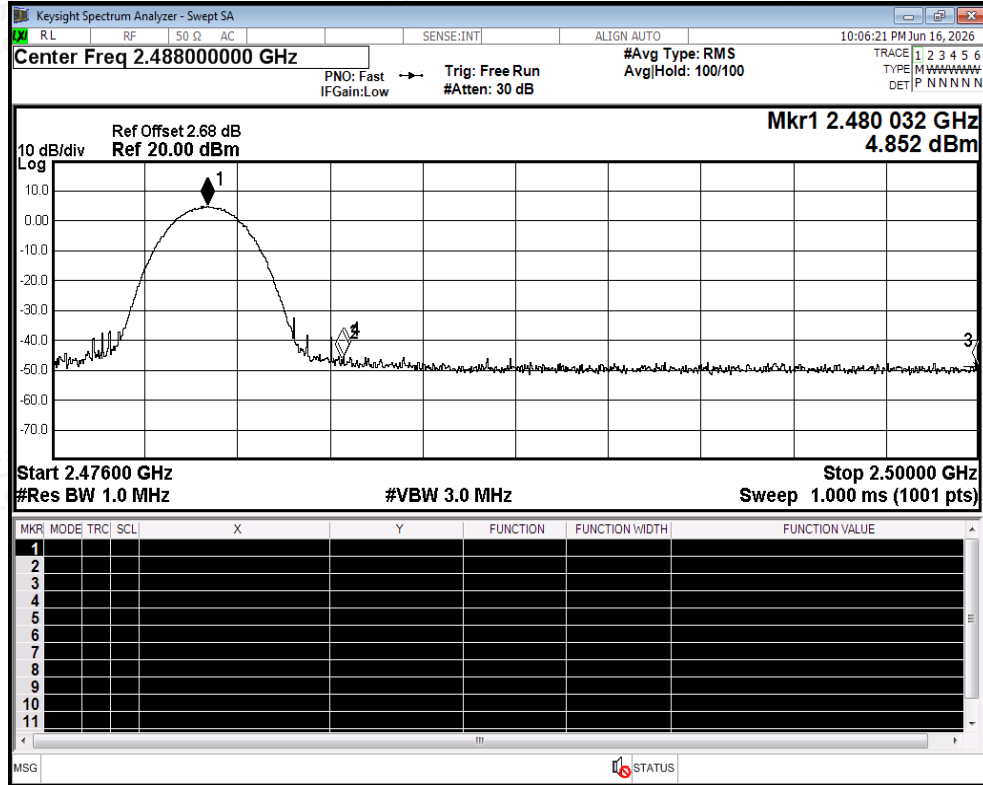


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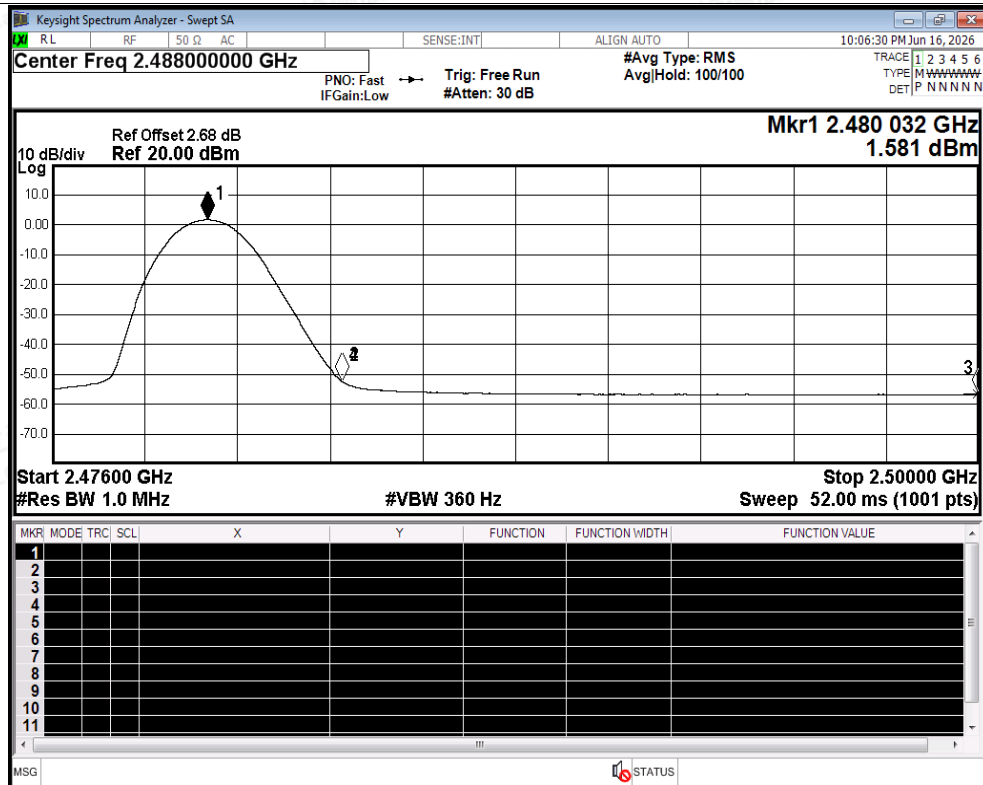
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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