



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BLUETOOTH SPEAKER

Test Model: AR3095

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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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	0.943	No Limit	Pass
NVNT	1-DH5	2441	Ant1	0.944	No Limit	Pass
NVNT	1-DH5	2480	Ant1	0.946	No Limit	Pass
NVNT	2-DH5	2402	Ant1	1.281	No Limit	Pass
NVNT	2-DH5	2441	Ant1	1.307	No Limit	Pass
NVNT	2-DH5	2480	Ant1	1.313	No Limit	Pass
NVNT	3-DH5	2402	Ant1	1.304	No Limit	Pass
NVNT	3-DH5	2441	Ant1	1.334	No Limit	Pass
NVNT	3-DH5	2480	Ant1	1.333	No Limit	Pass



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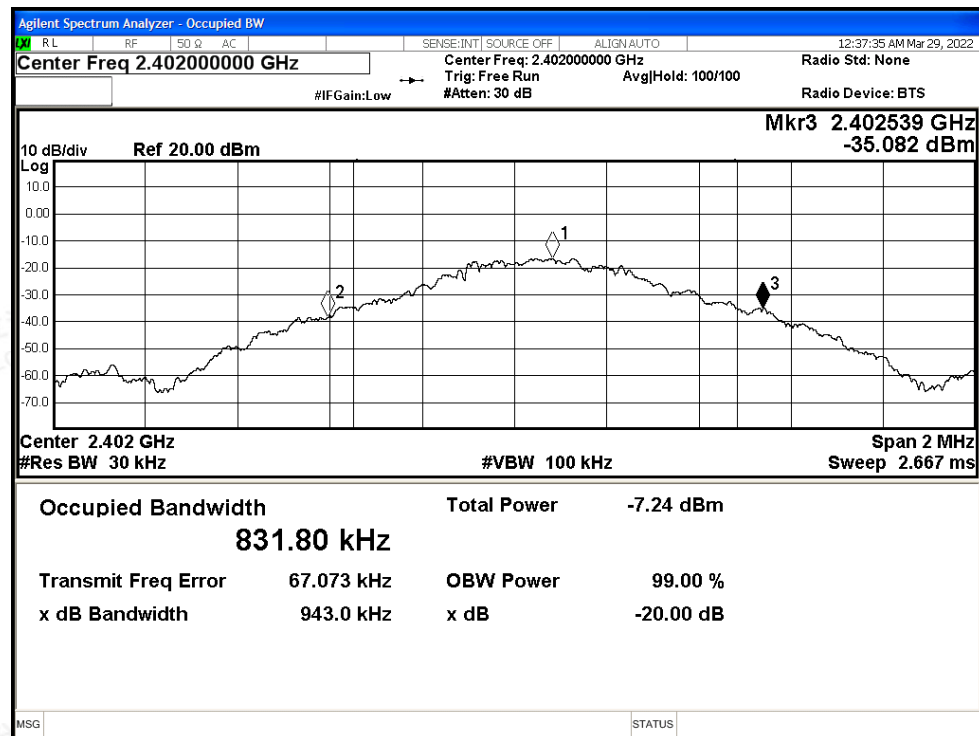
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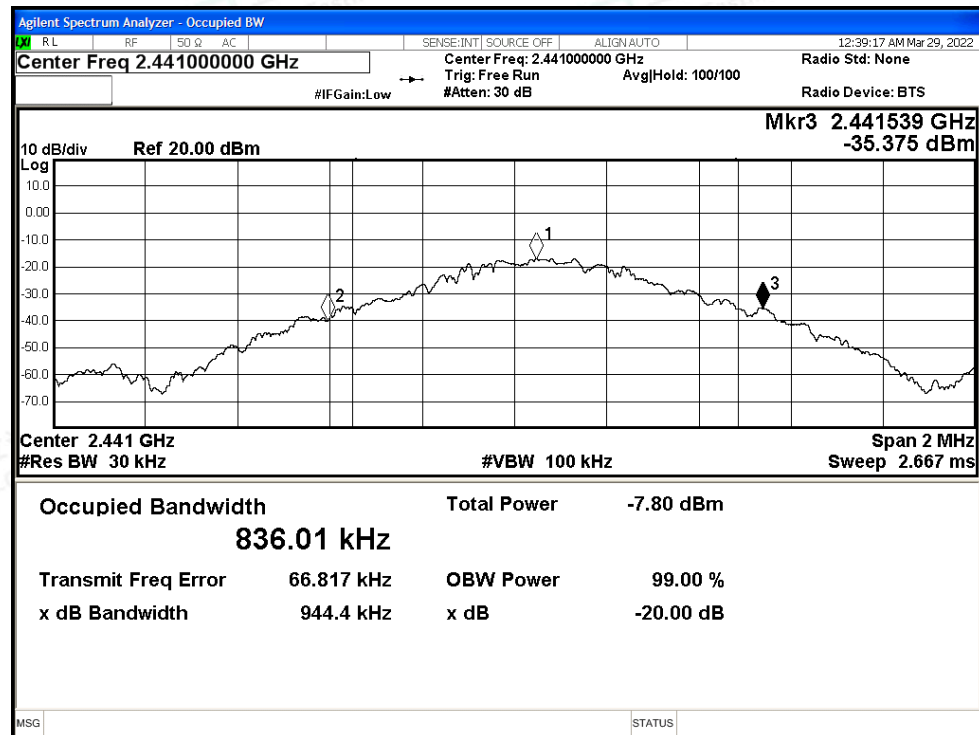


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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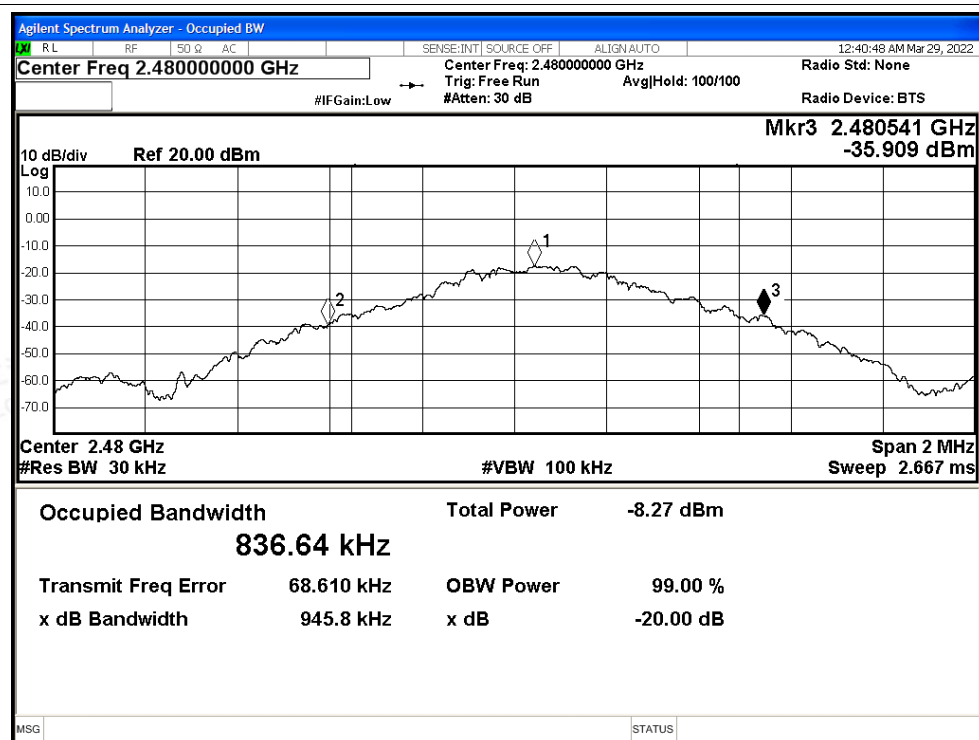
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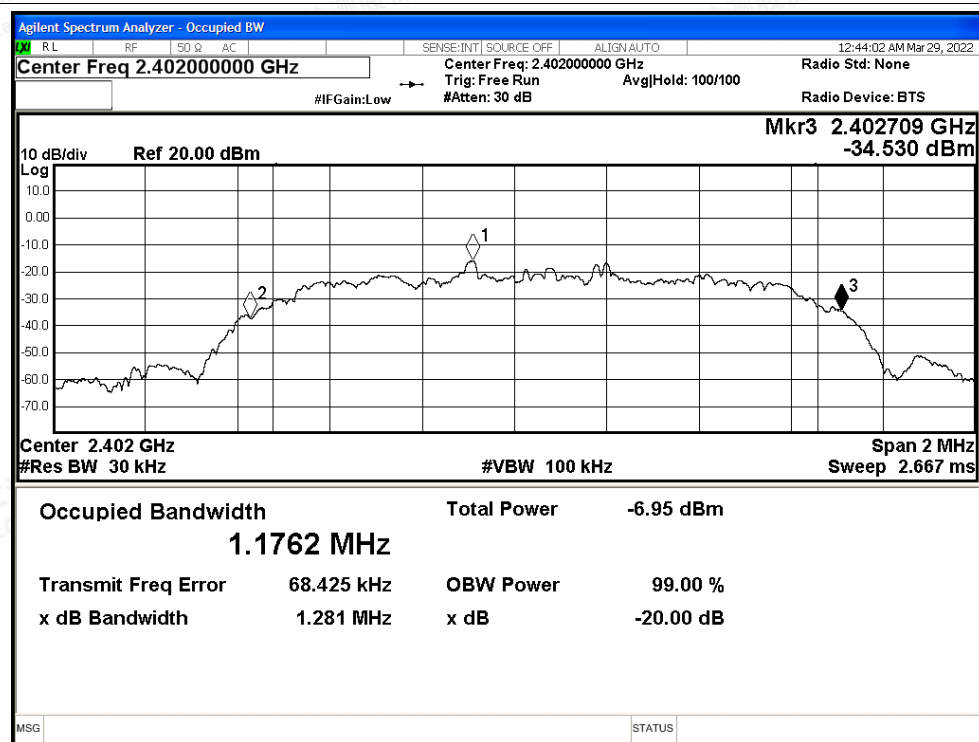
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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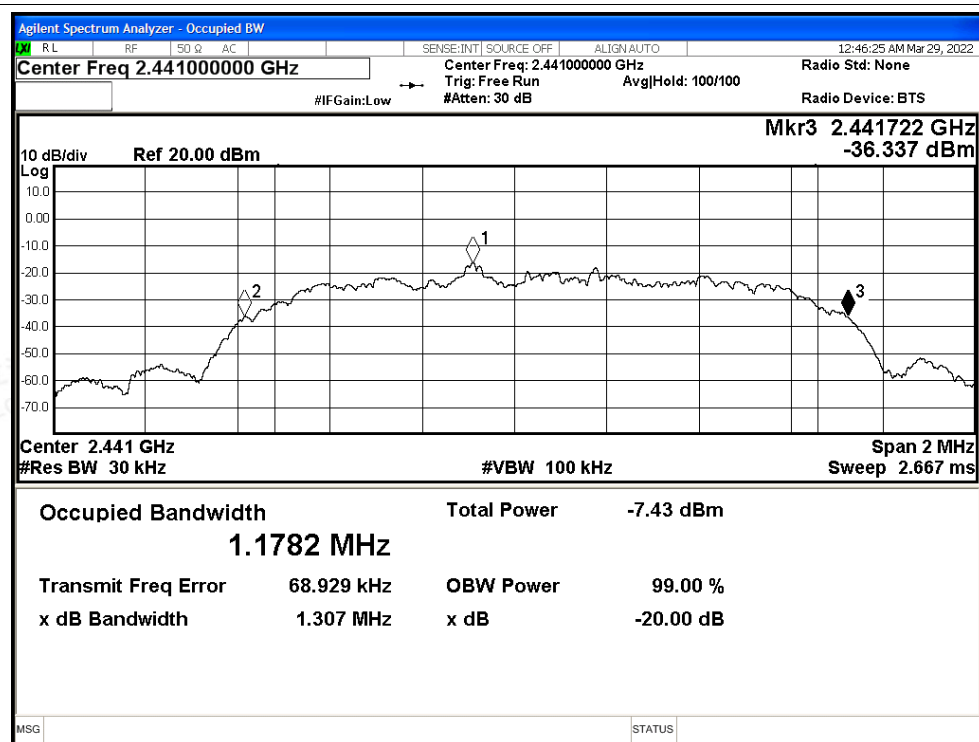
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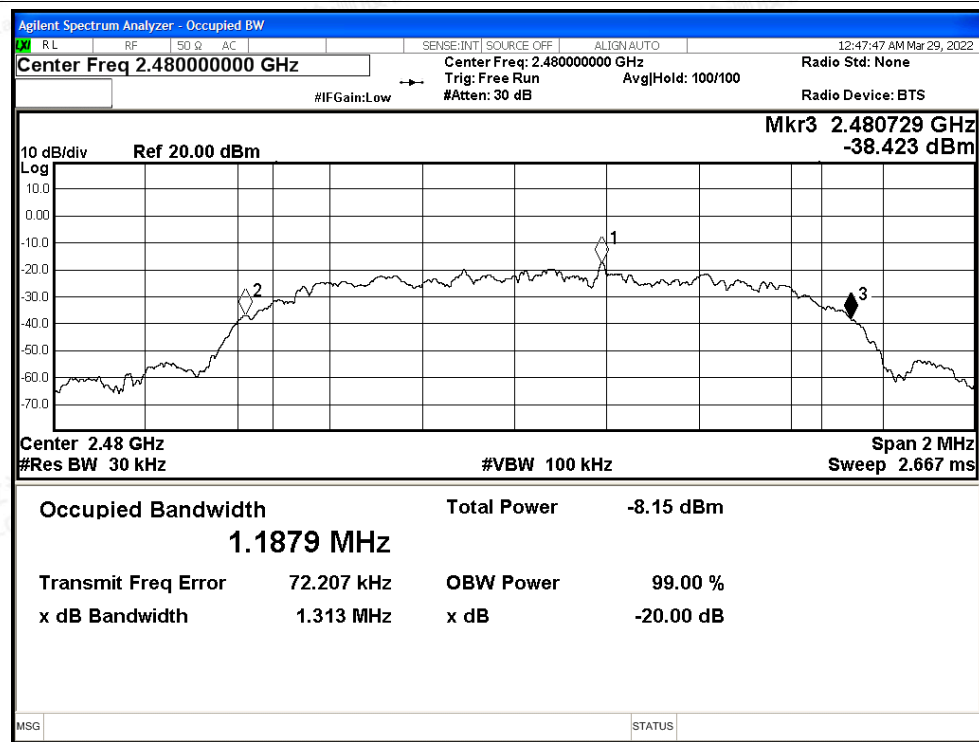
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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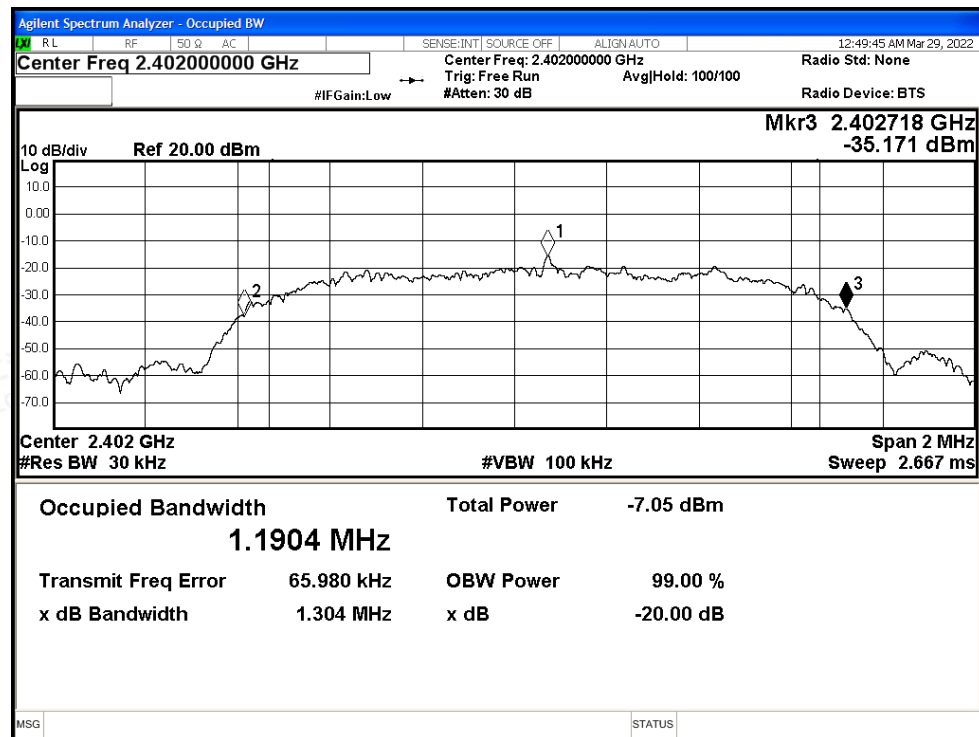
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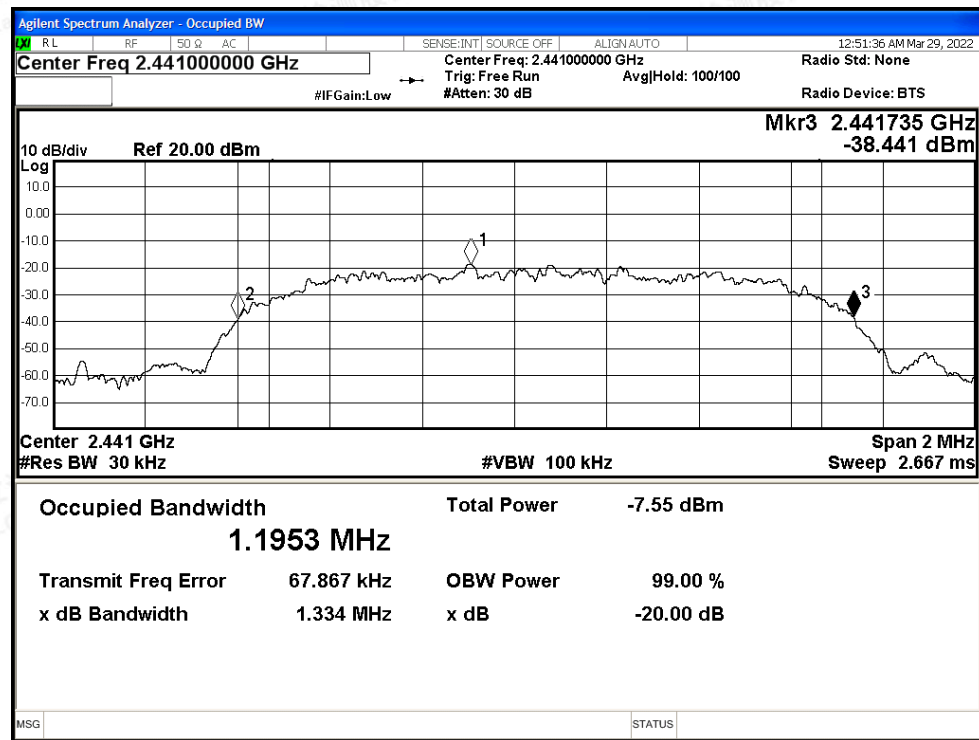
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

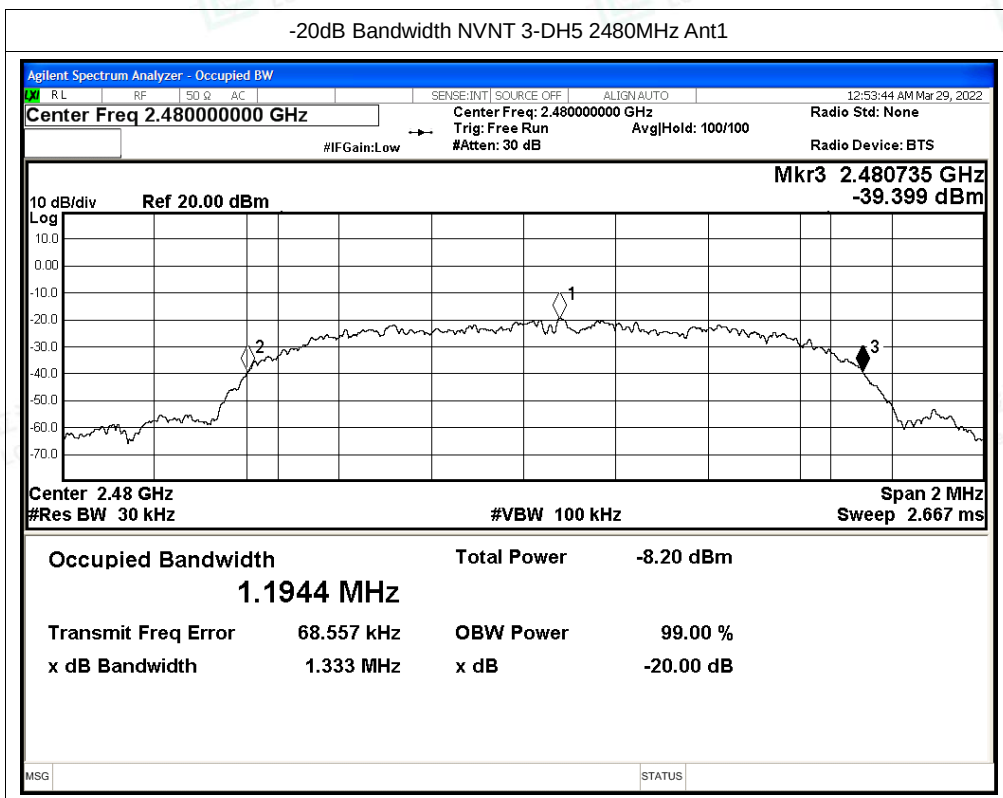


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-5.01	0	-5.01	21	Pass
NVNT	1-DH5	2441	Ant1	-5.42	0	-5.42	21	Pass
NVNT	1-DH5	2480	Ant1	-5.9	0	-5.9	21	Pass
NVNT	2-DH5	2402	Ant1	-2.62	0	-2.62	21	Pass
NVNT	2-DH5	2441	Ant1	-3.05	0	-3.05	21	Pass
NVNT	2-DH5	2480	Ant1	-3.55	0	-3.55	21	Pass
NVNT	3-DH5	2402	Ant1	-1.97	0	-1.97	21	Pass
NVNT	3-DH5	2441	Ant1	-2.4	0	-2.4	21	Pass
NVNT	3-DH5	2480	Ant1	-2.92	0	-2.92	21	Pass



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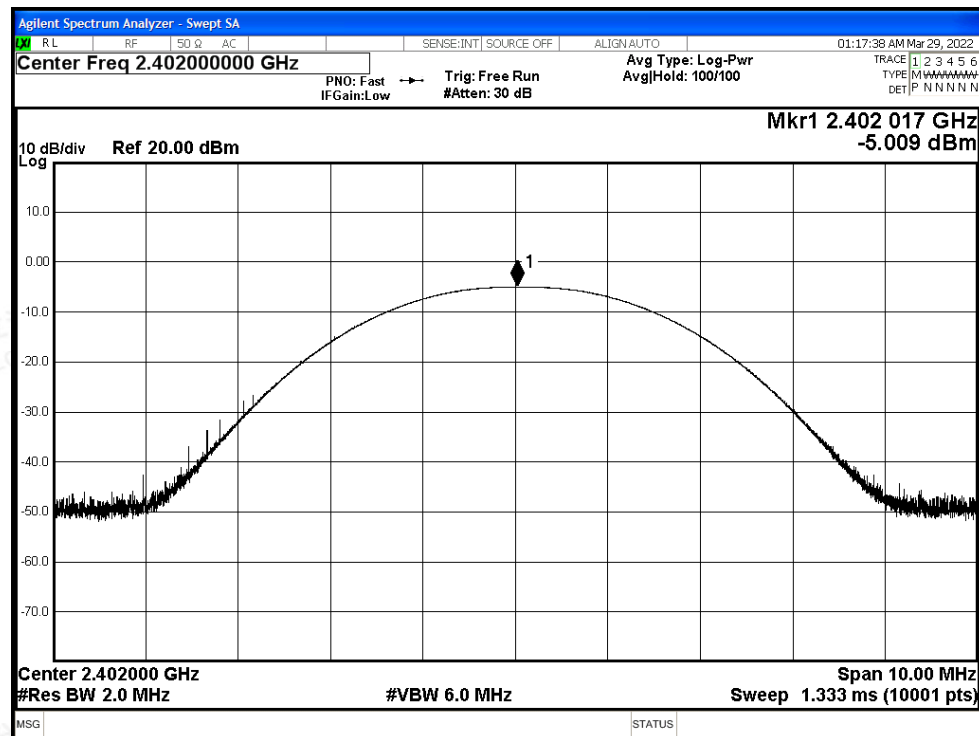
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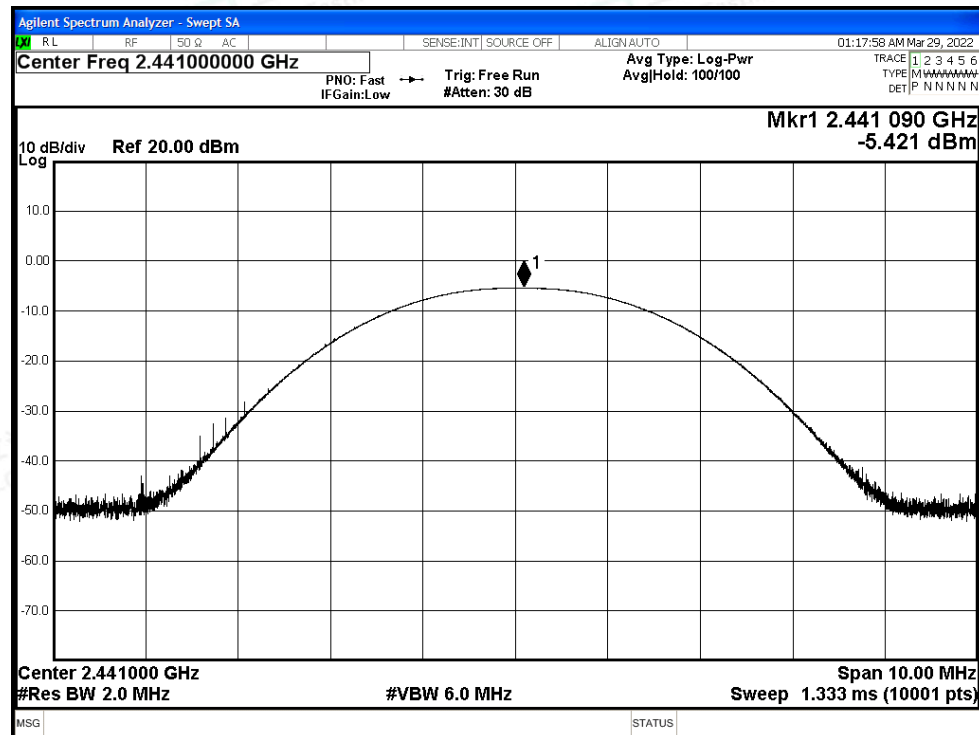


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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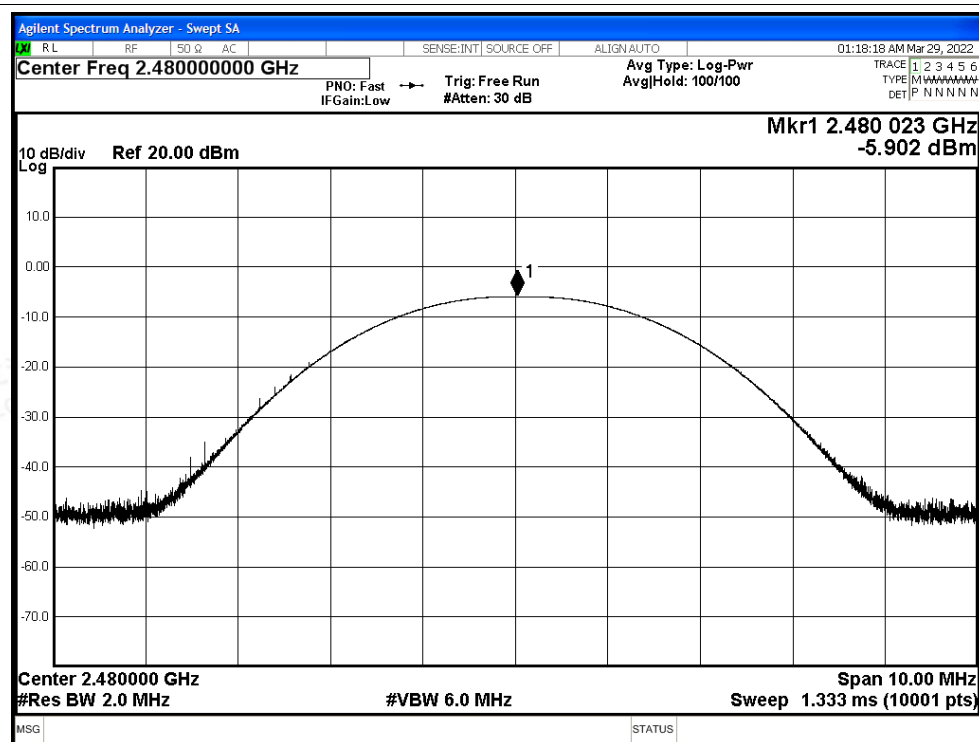
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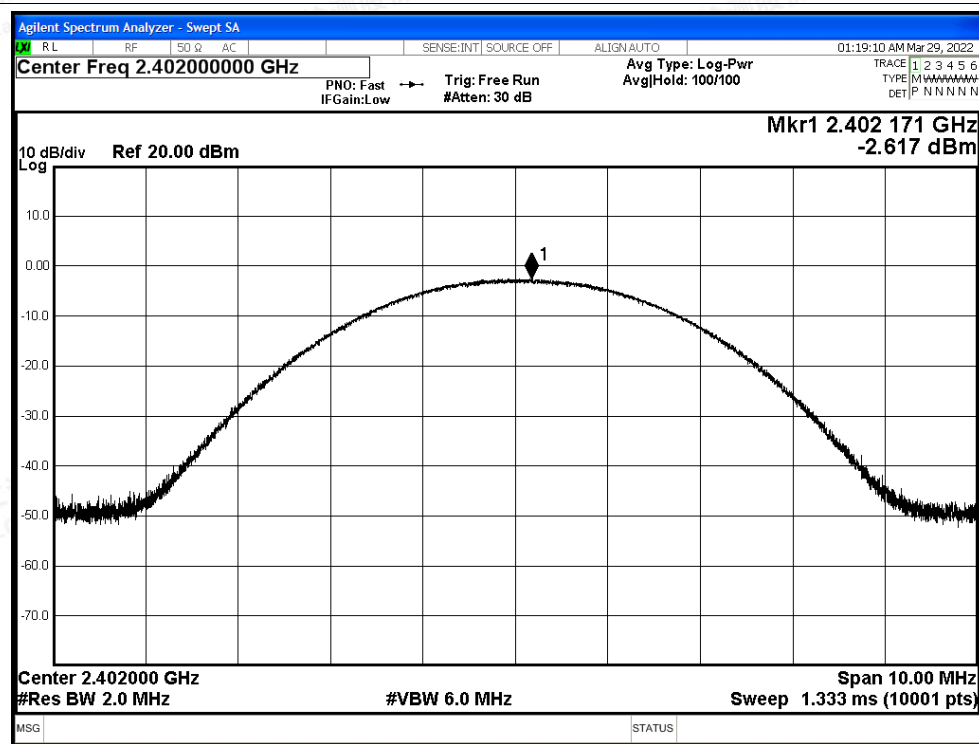
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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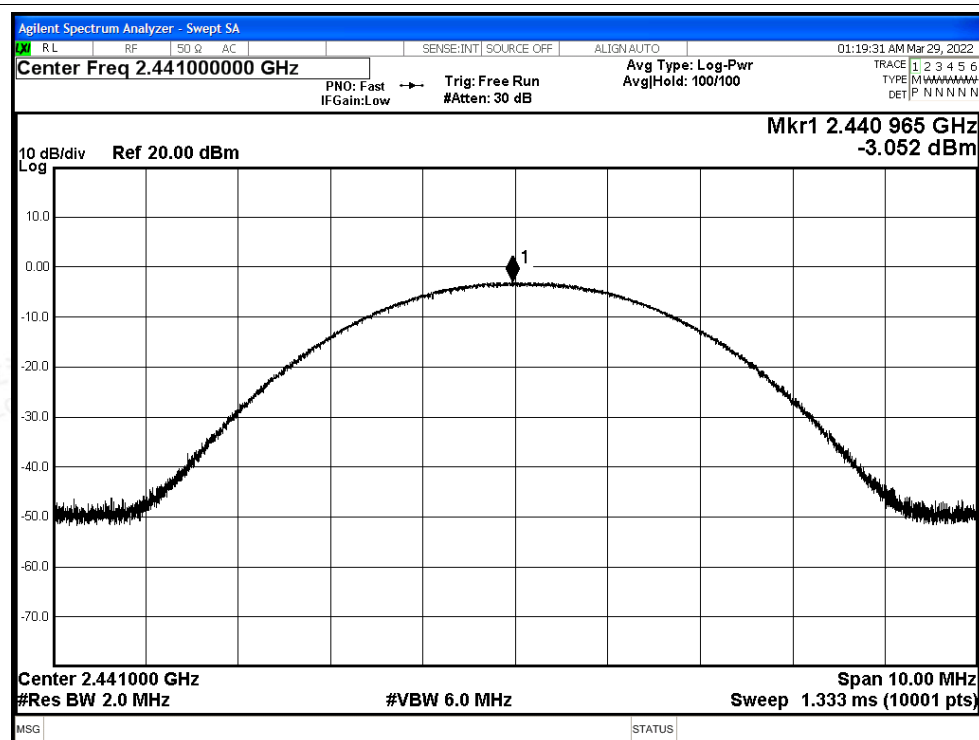
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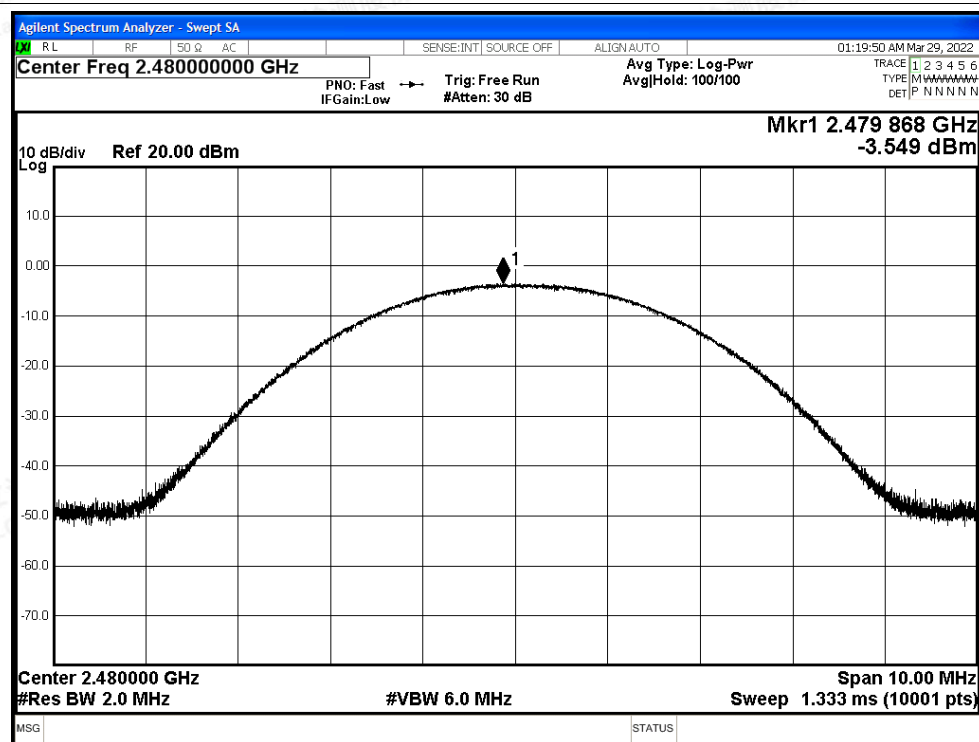
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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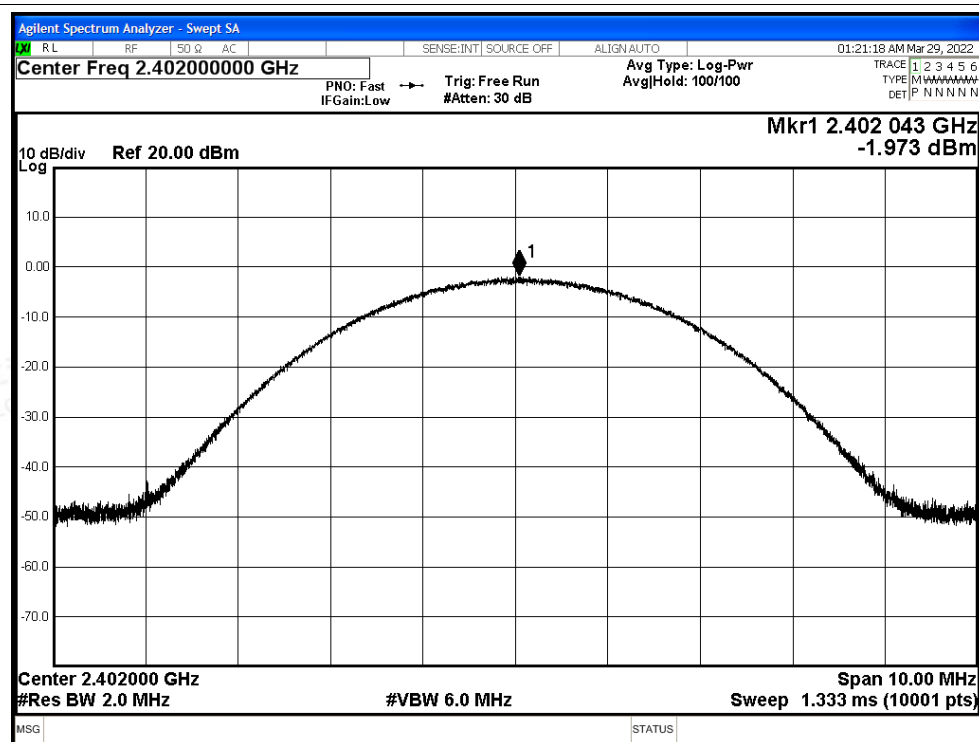
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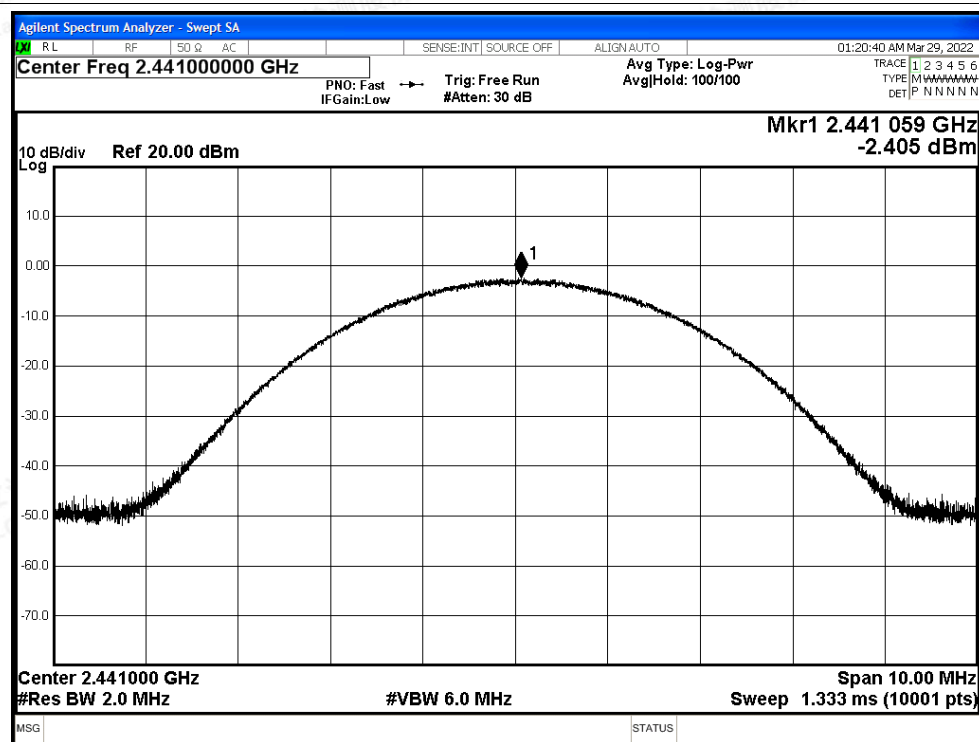
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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

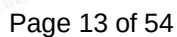


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A.3 Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2441.01	2441.97	0.96	0.631	Pass
NVNT	2-DH5	Ant1	2441.156	2442.156	1	0.875	Pass
NVNT	3-DH5	Ant1	2441.154	2442.152	0.998	0.889	Pass



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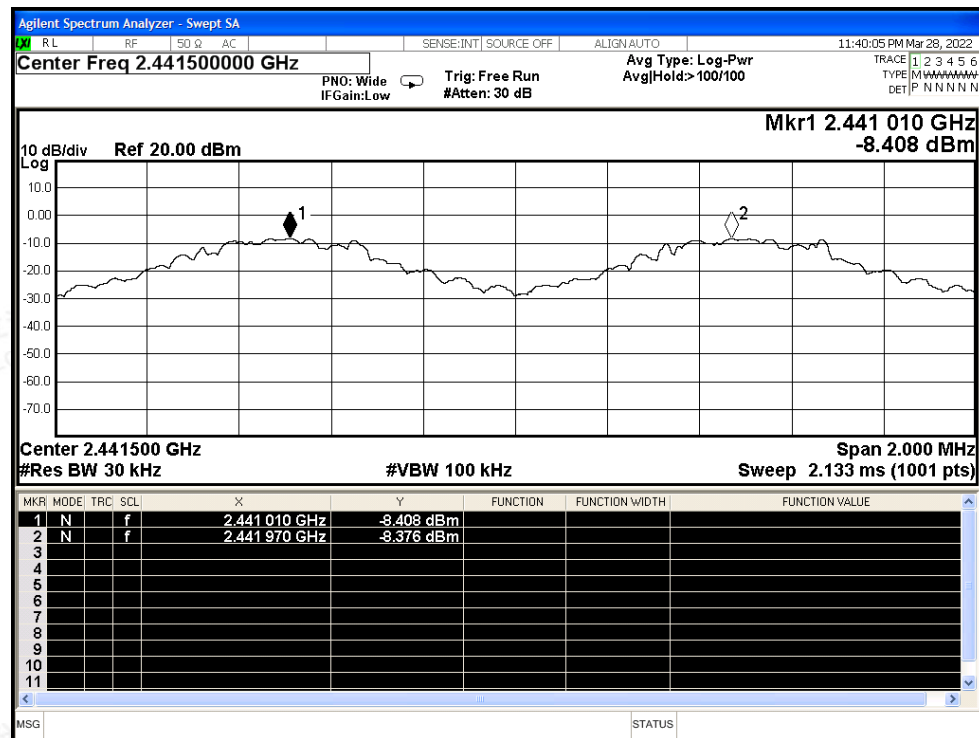
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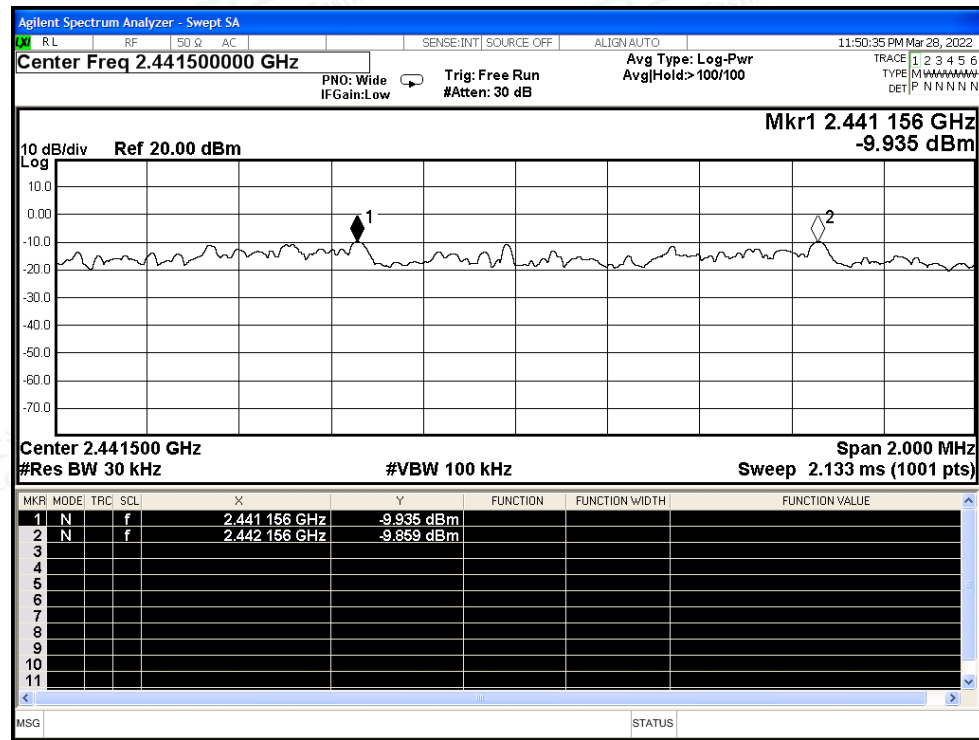


Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2441	Ant1	2.879	310.932	108	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	288.000	100	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.886	271.284	94	31600	400	Pass



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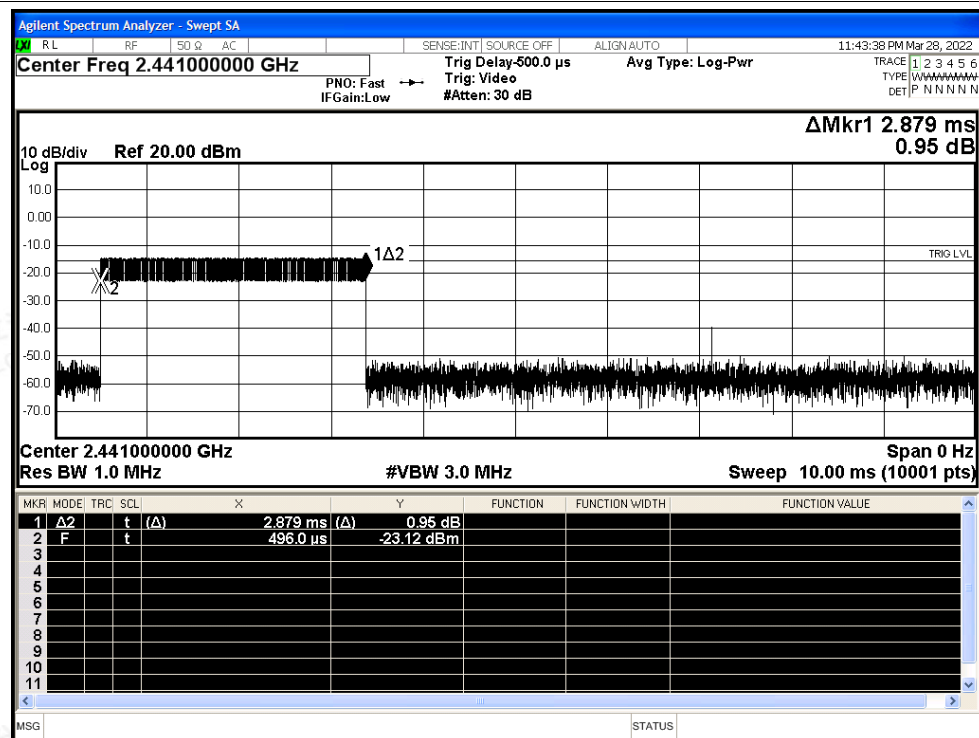
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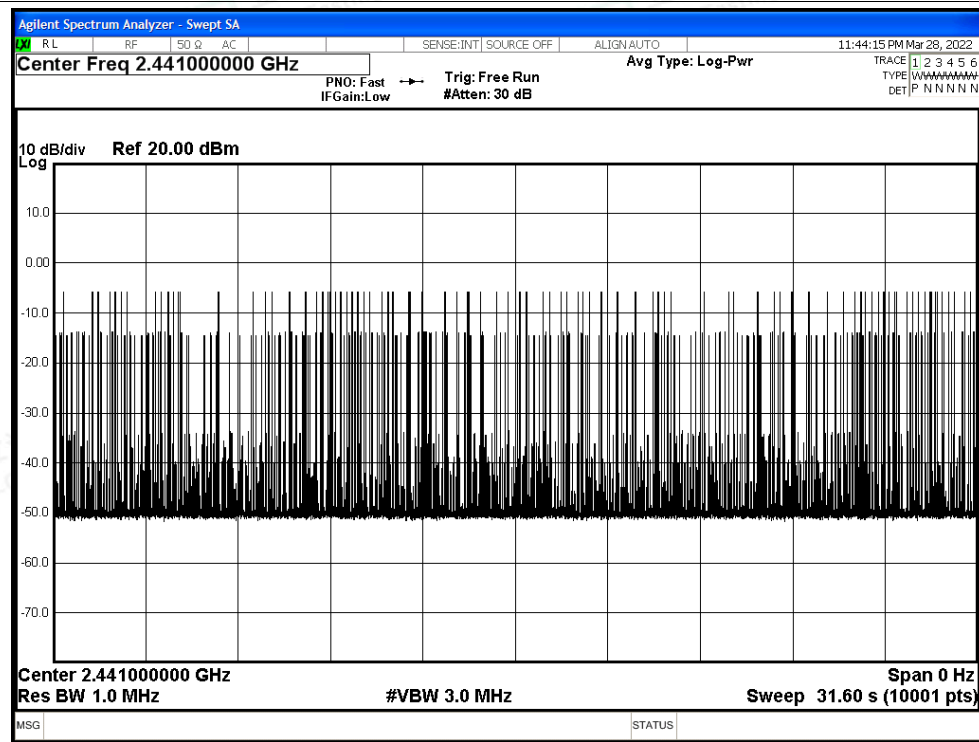


Test Graphs

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



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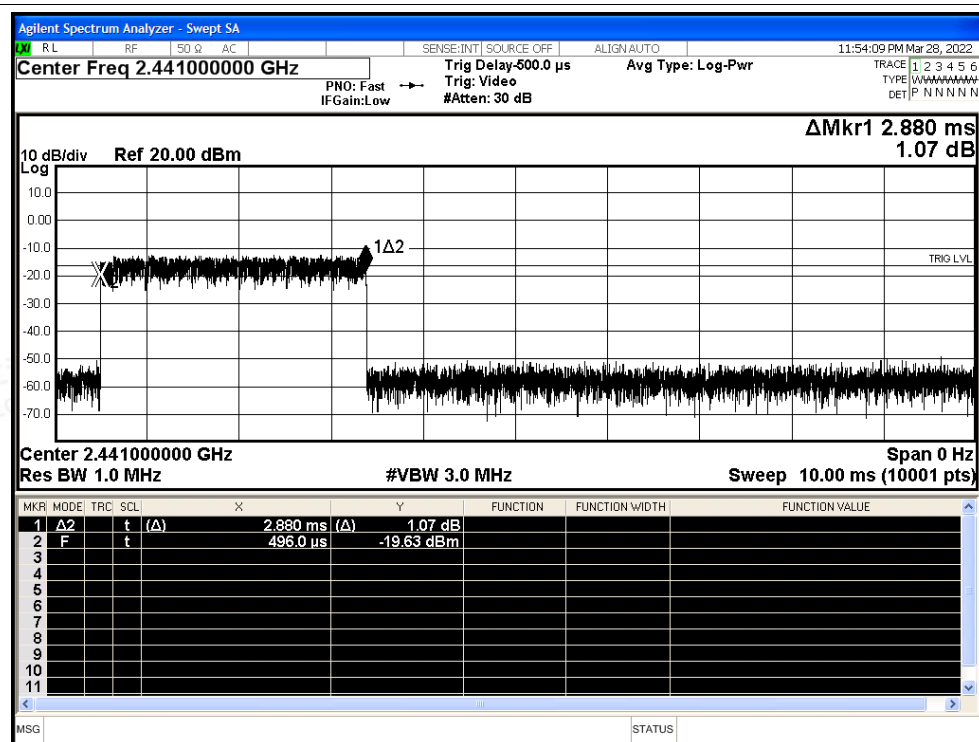
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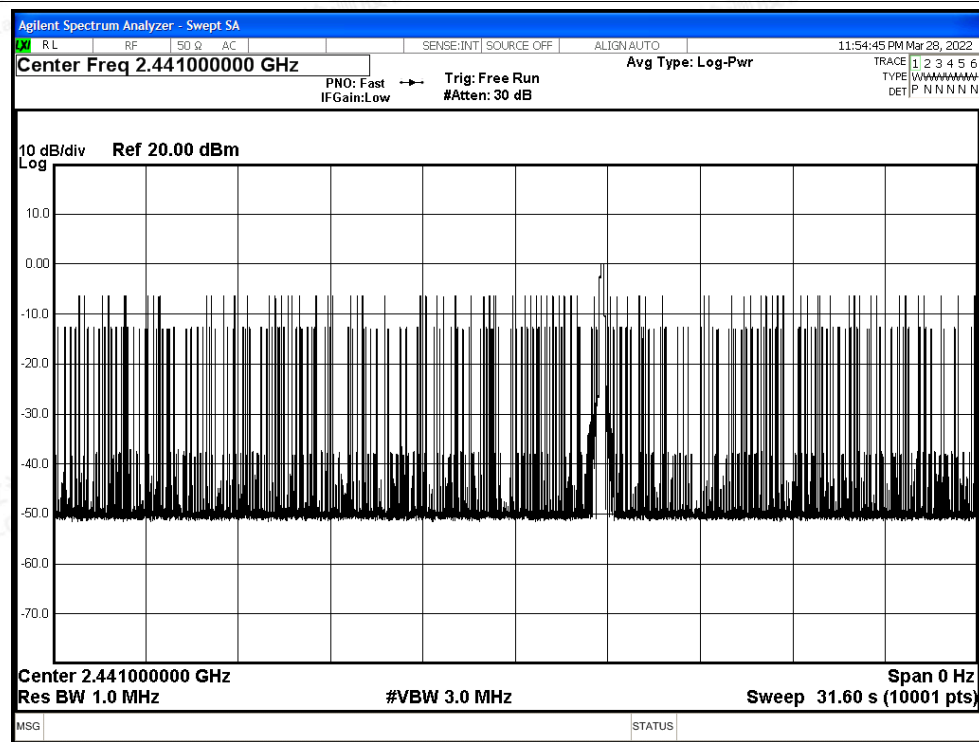
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Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



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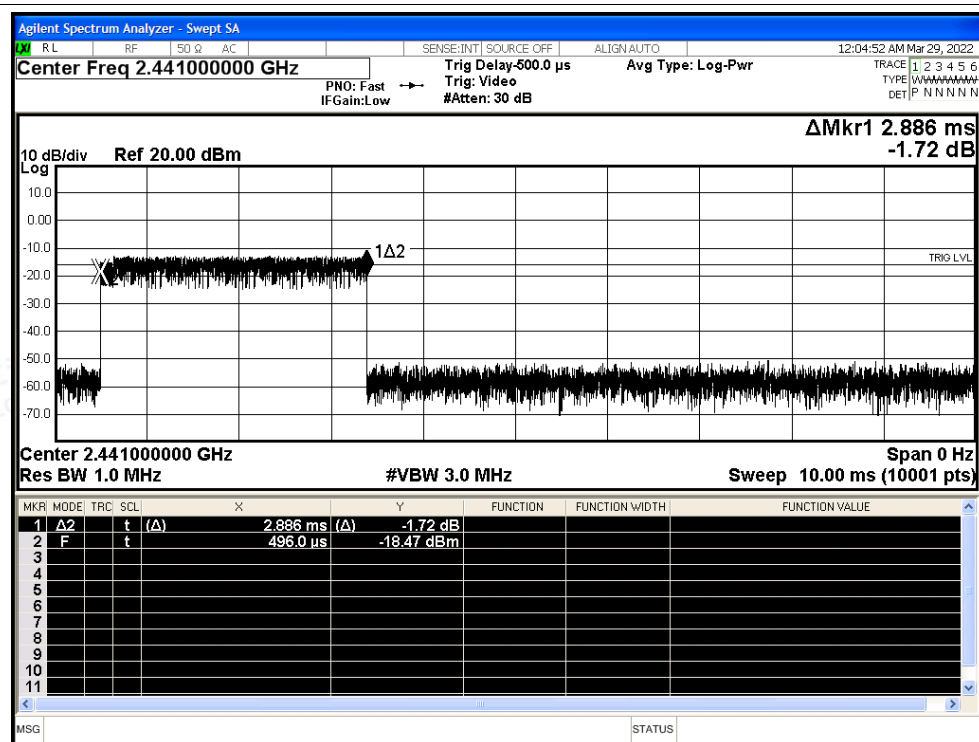
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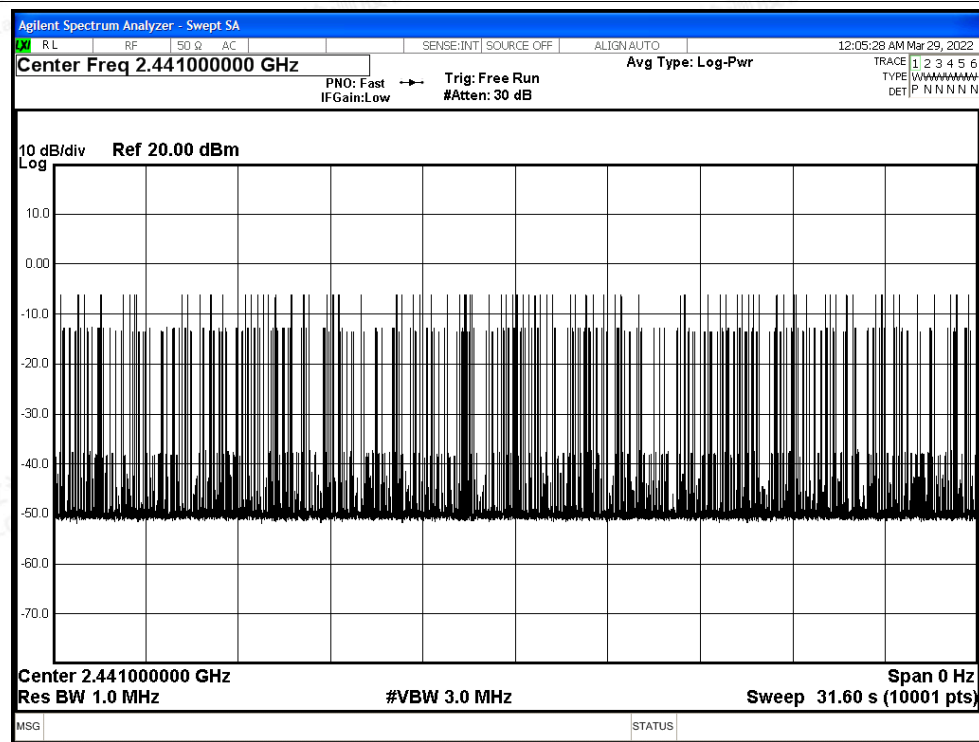
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Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

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



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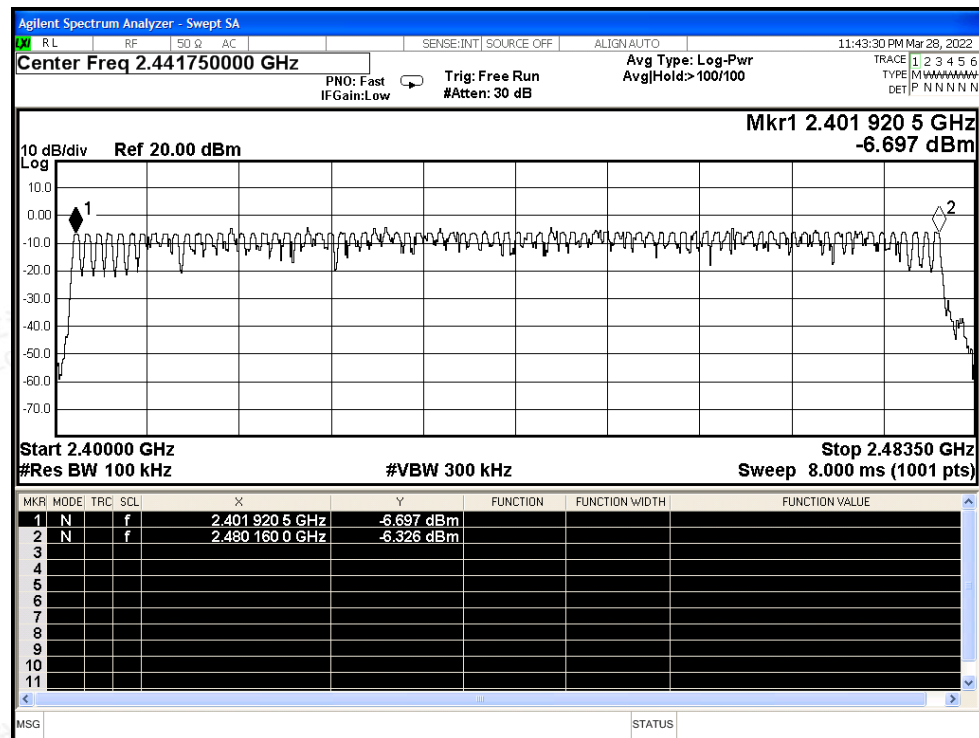
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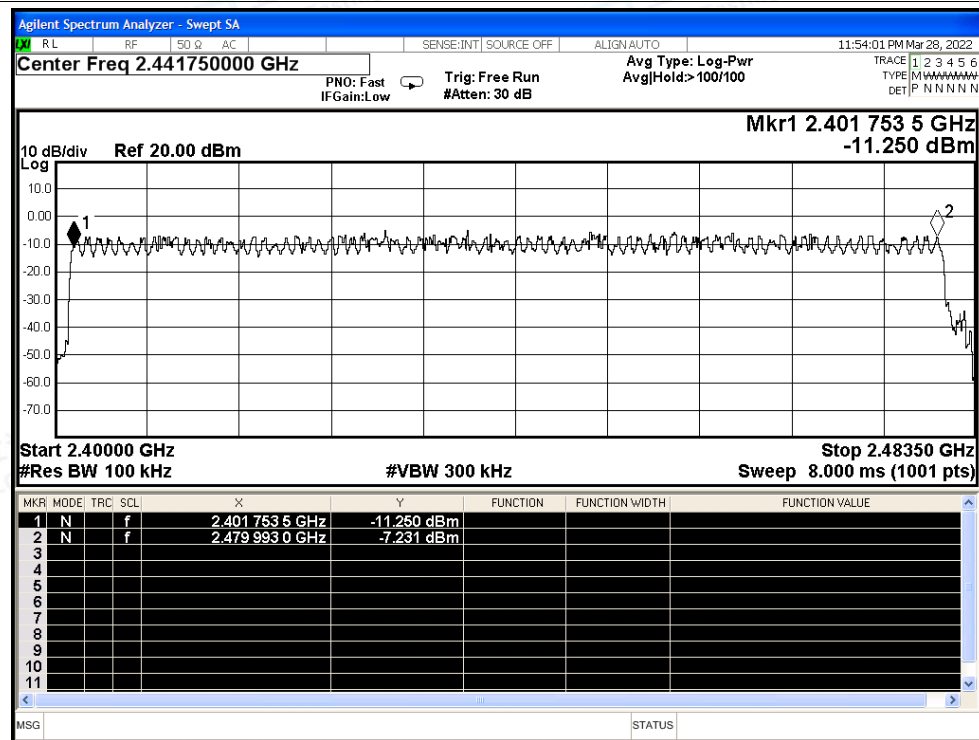


Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1

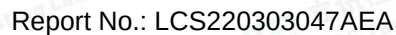


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-44.18	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-43.87	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-44.91	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-43.63	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-44.7	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-43.97	-20	Pass



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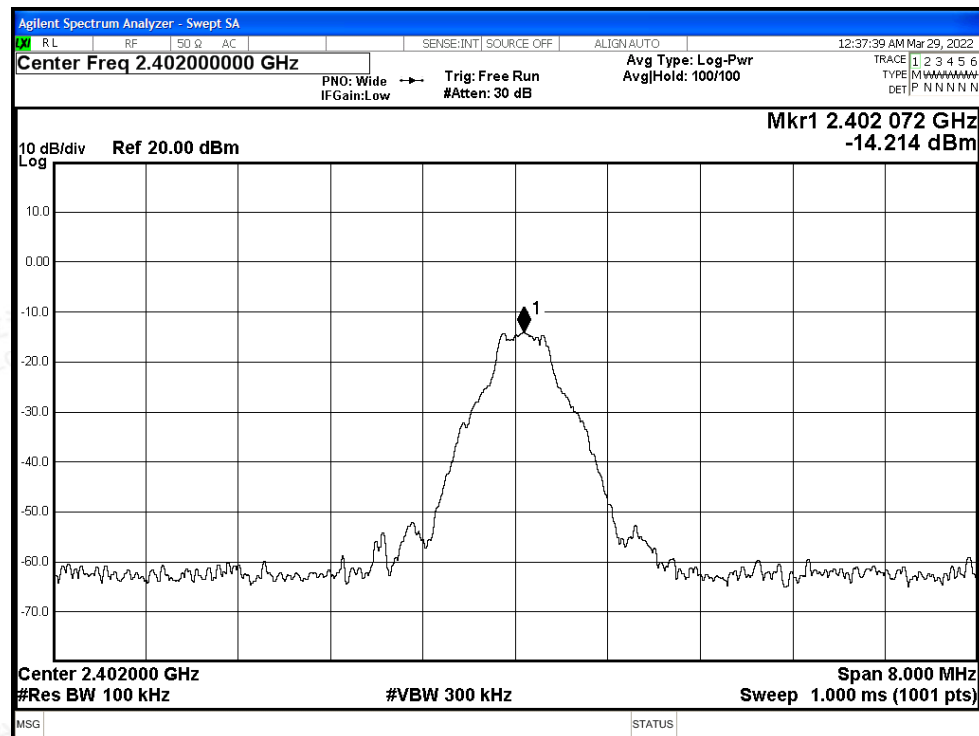
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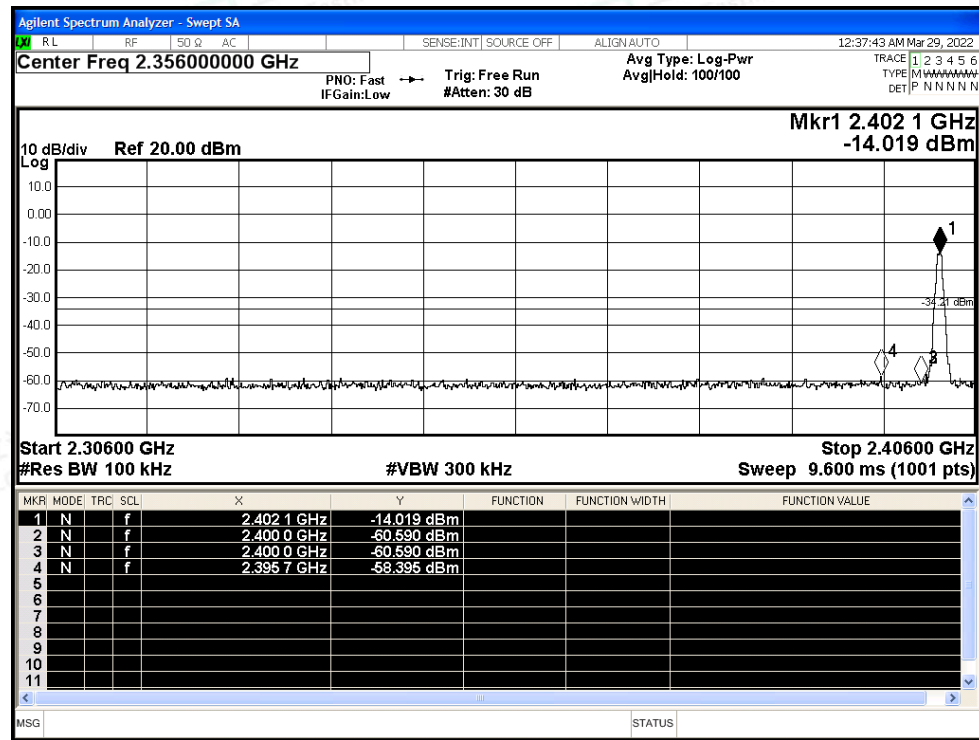


Test Graphs

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



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



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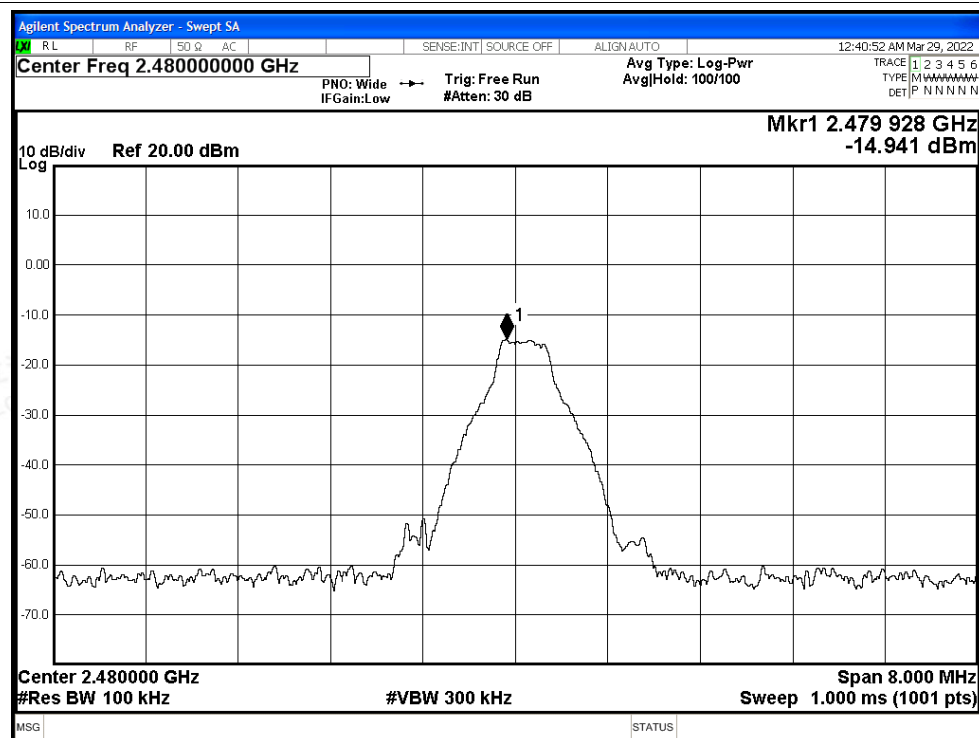
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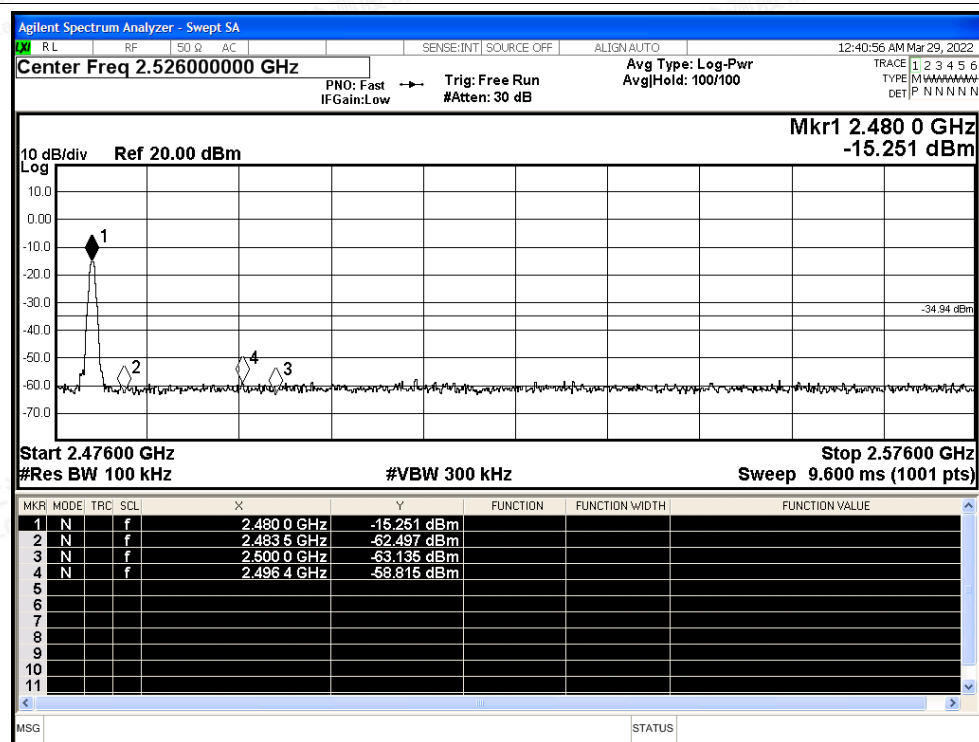
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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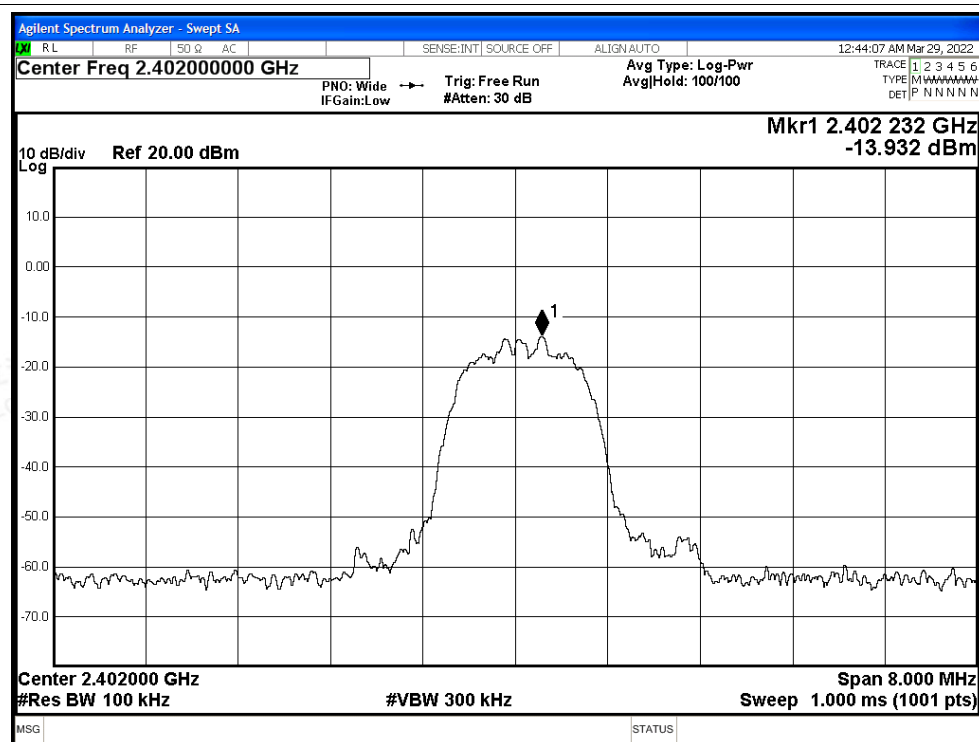
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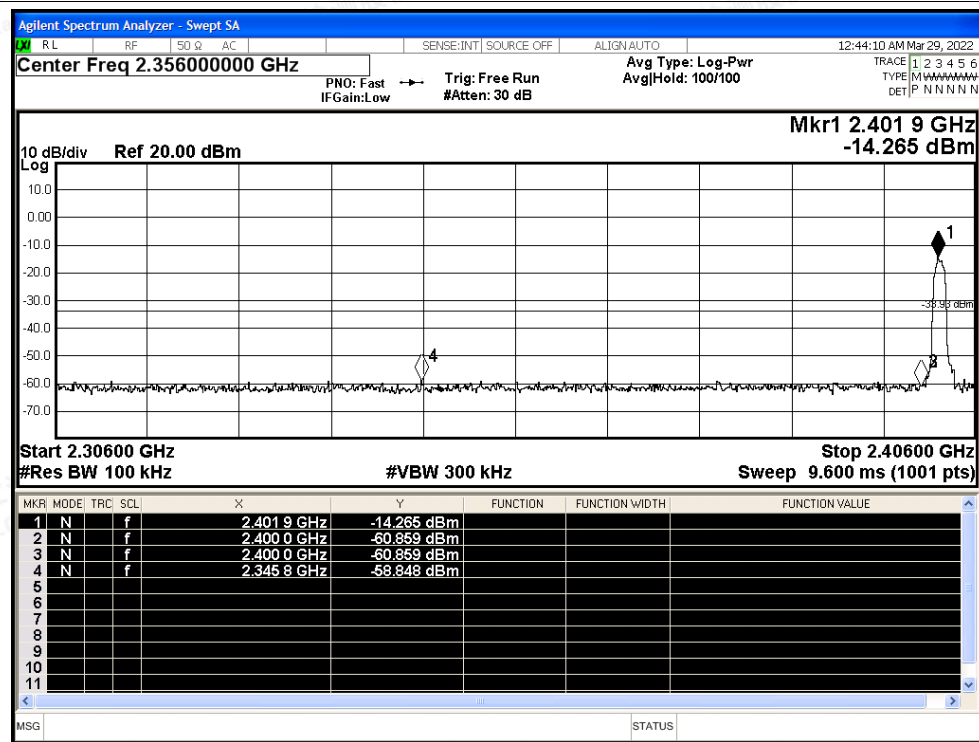
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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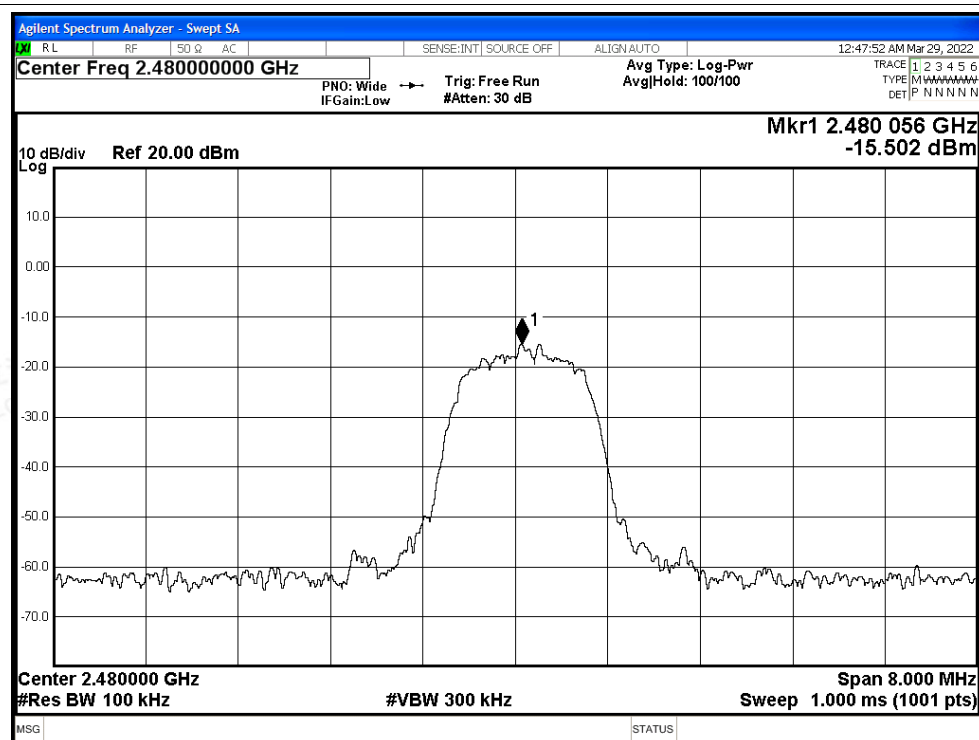
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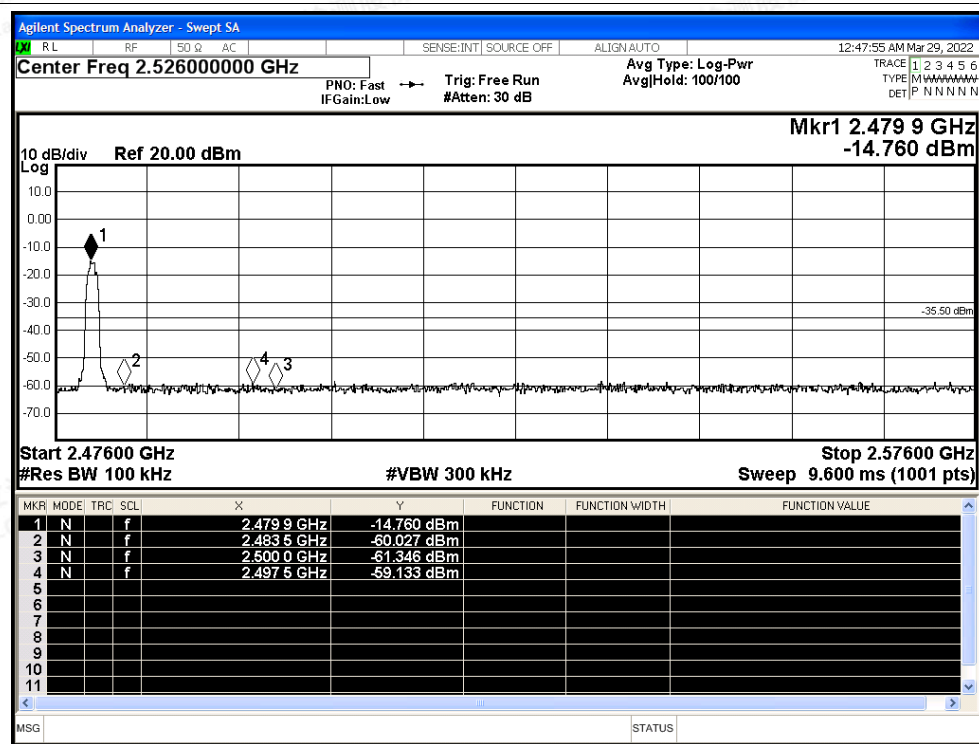
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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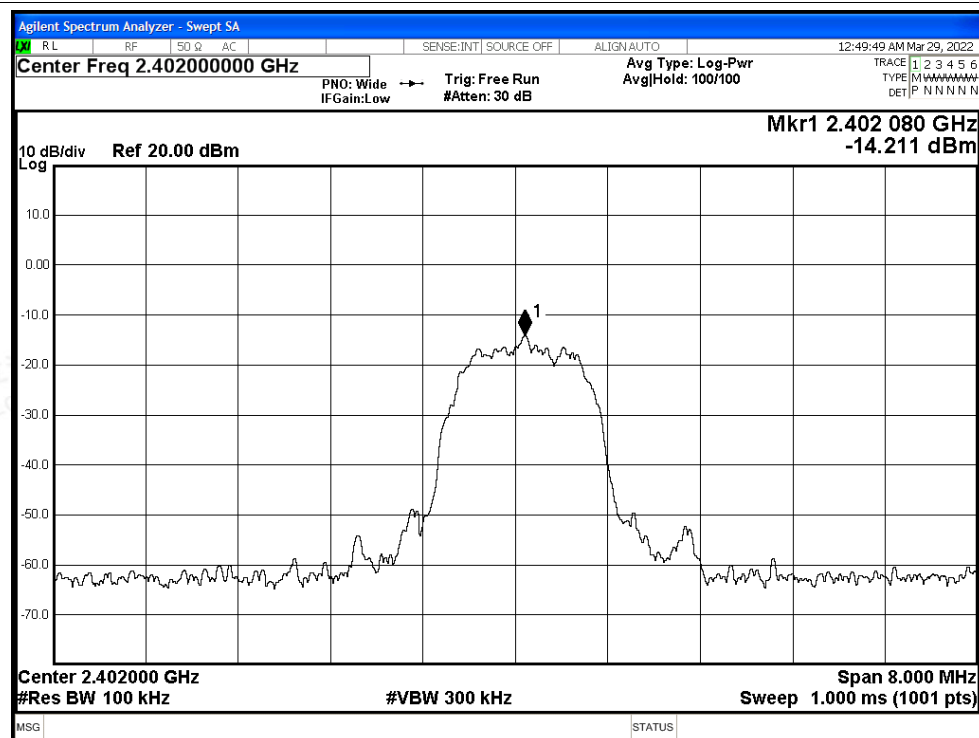
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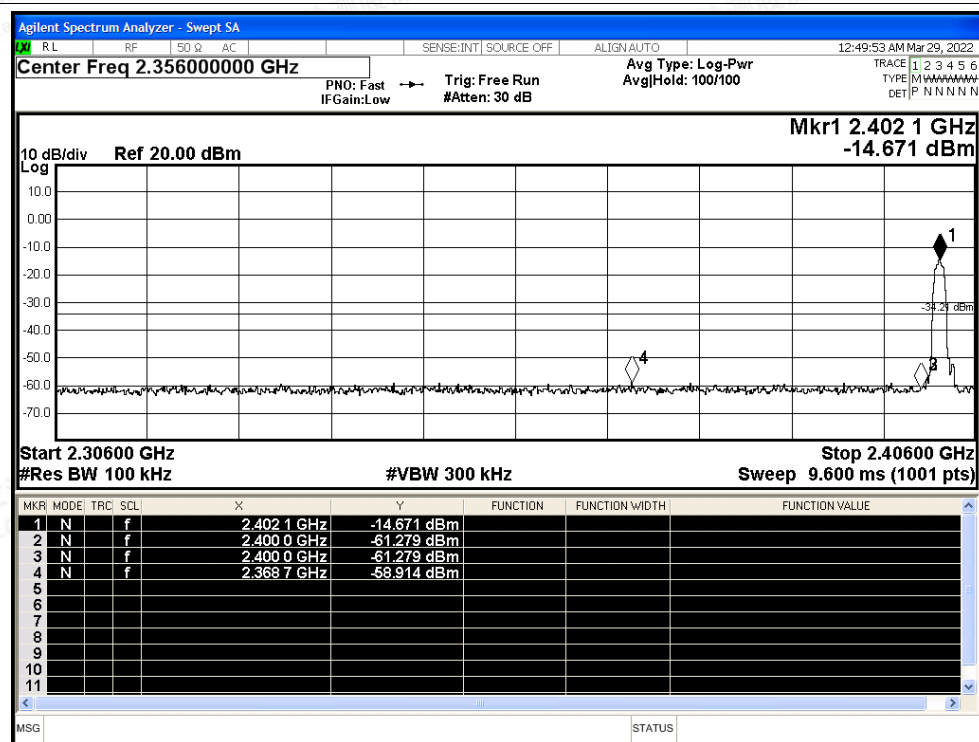
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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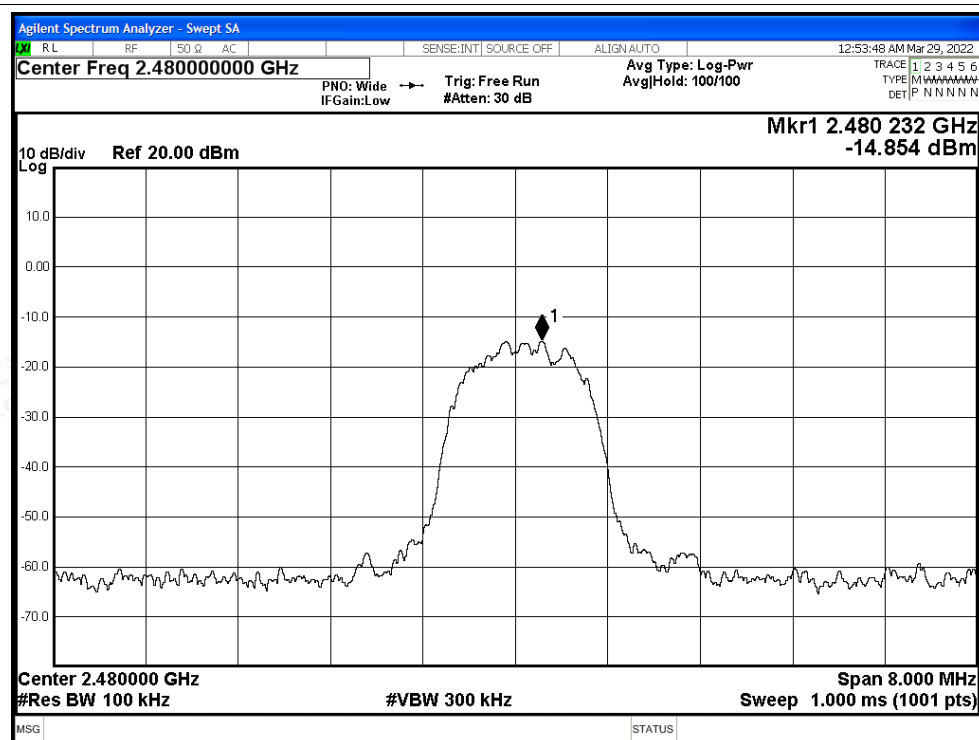
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

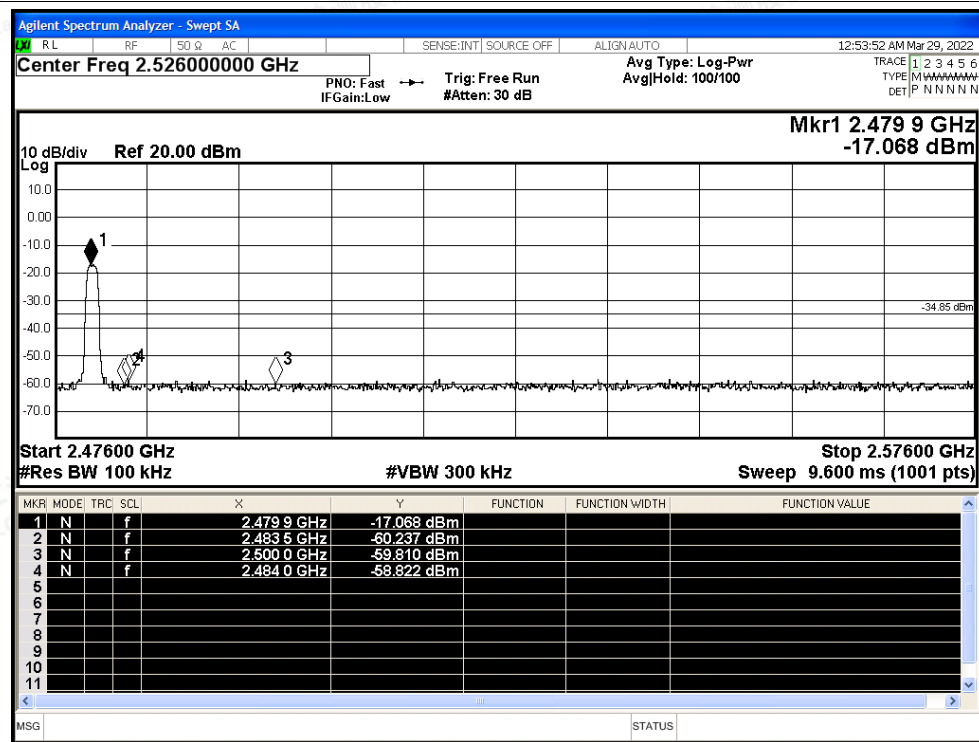
Scan code to check authenticity



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



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



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**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-43.65	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-42.96	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-43.53	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-43.43	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-42.9	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-42.49	-20	Pass



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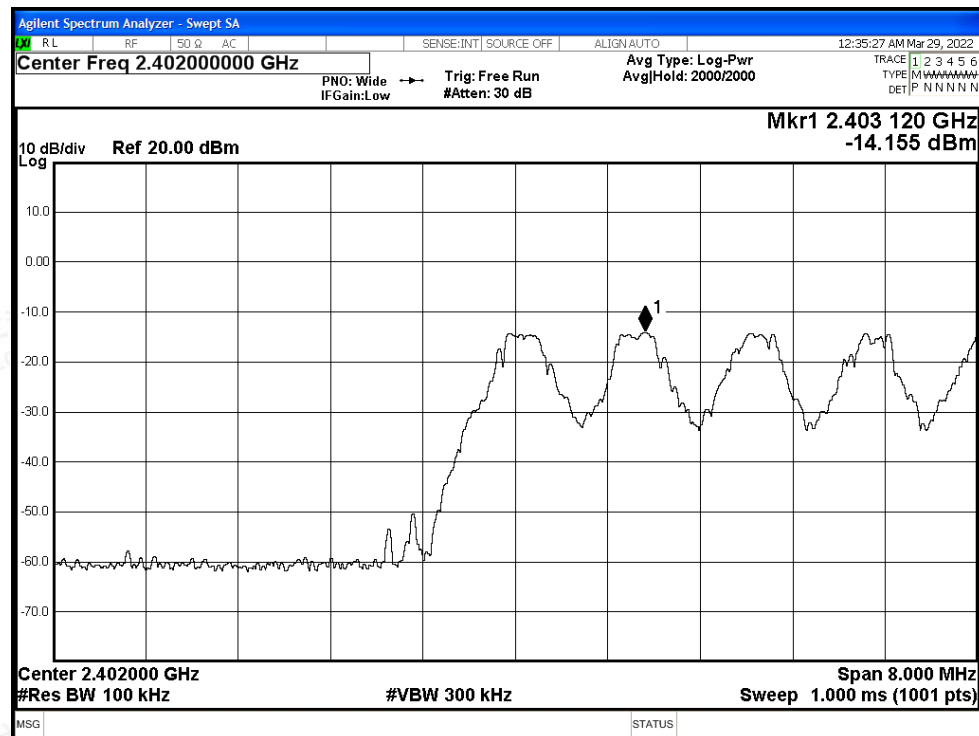
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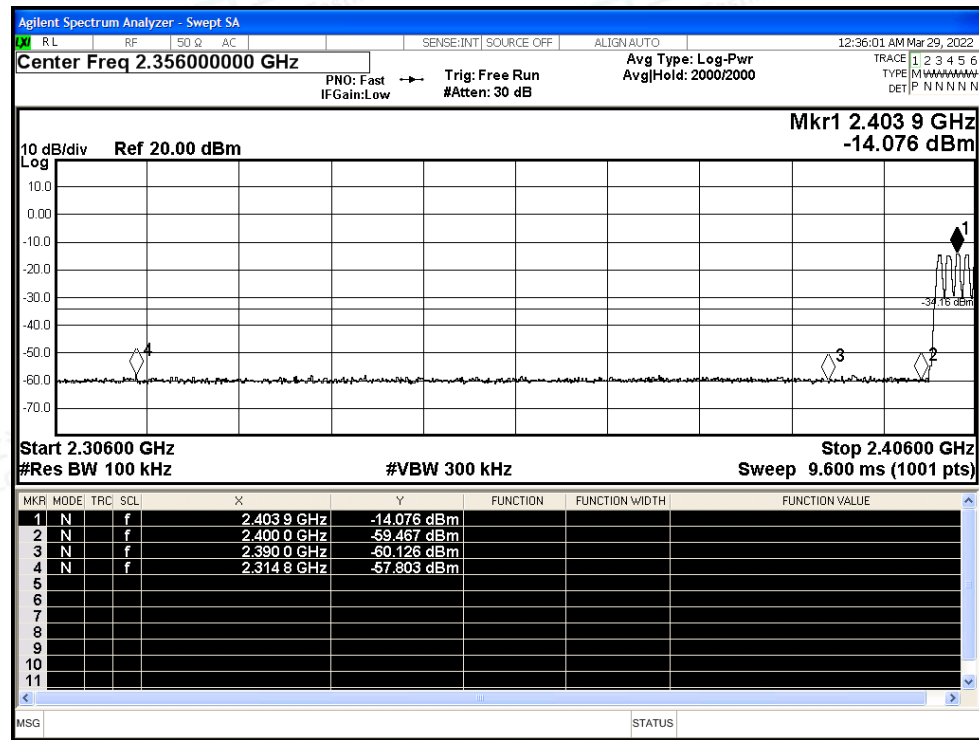


Test Graphs

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



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



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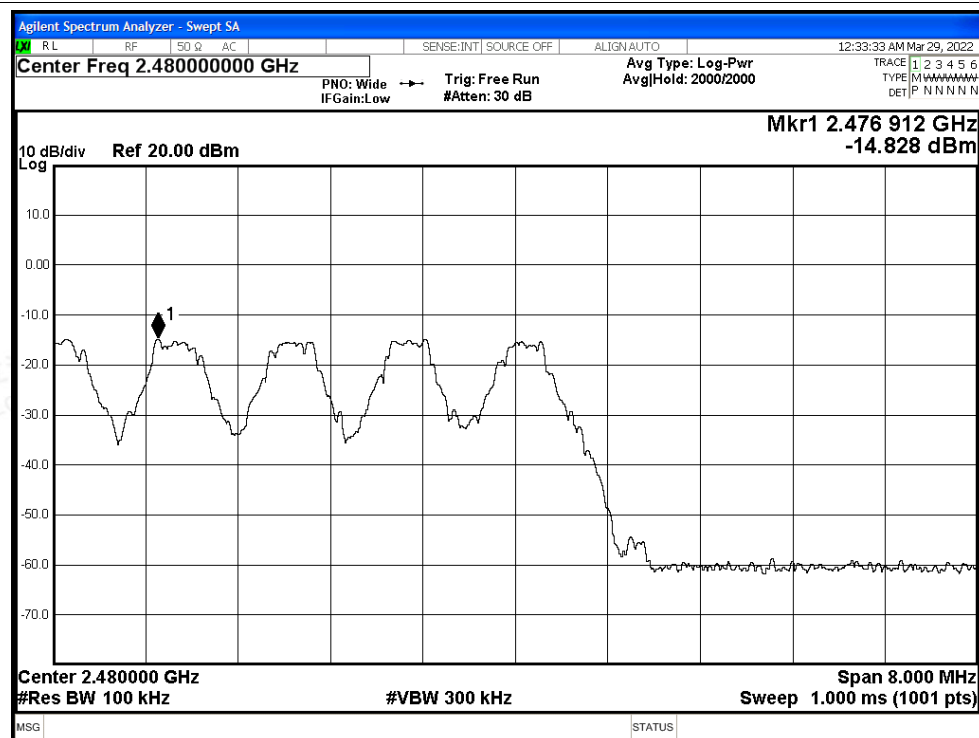
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

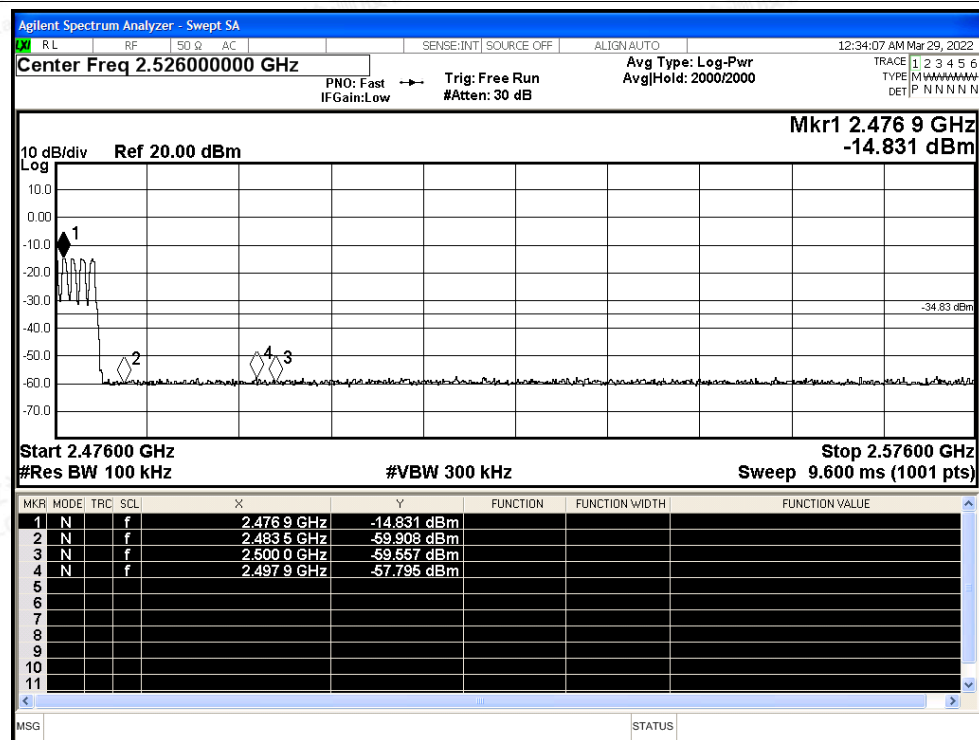
Scan code to check authenticity



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.

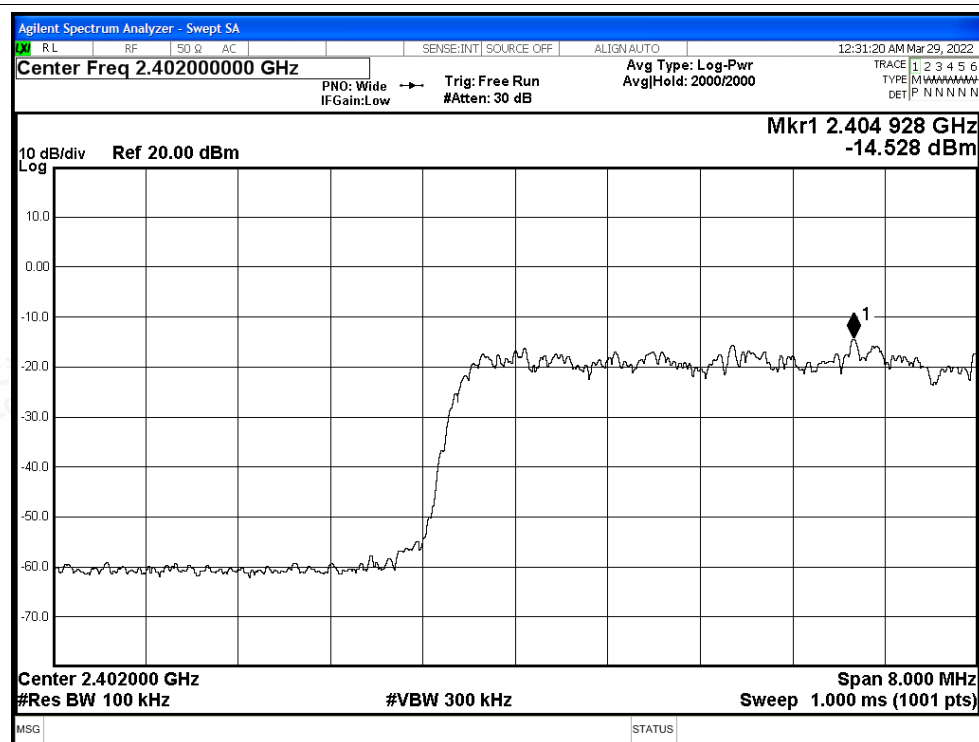
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

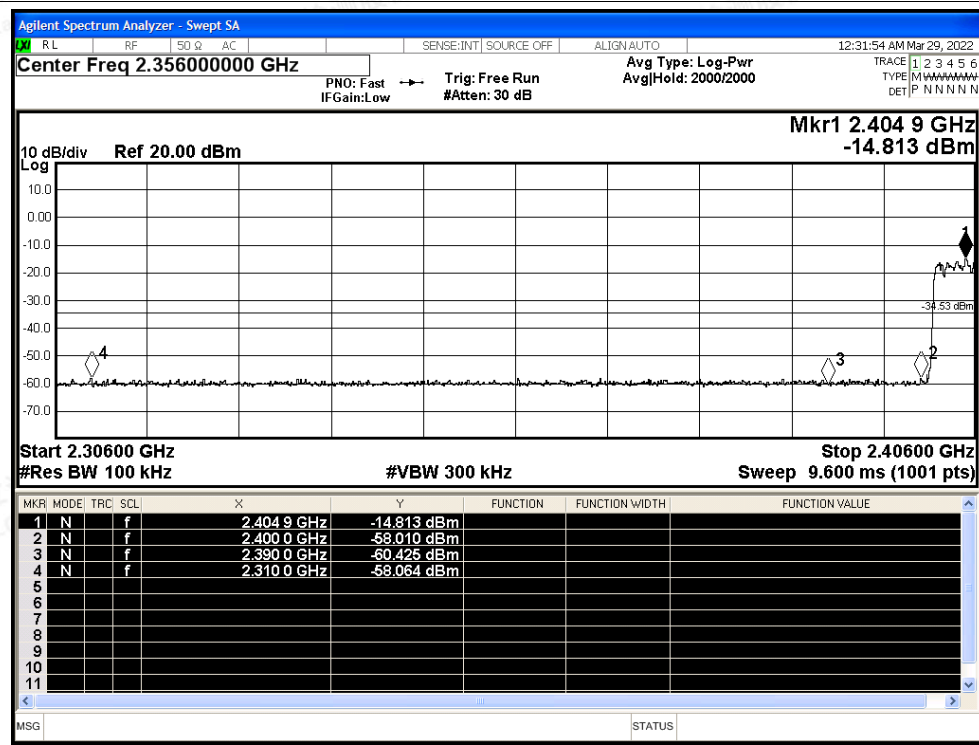
Scan code to check authenticity



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



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



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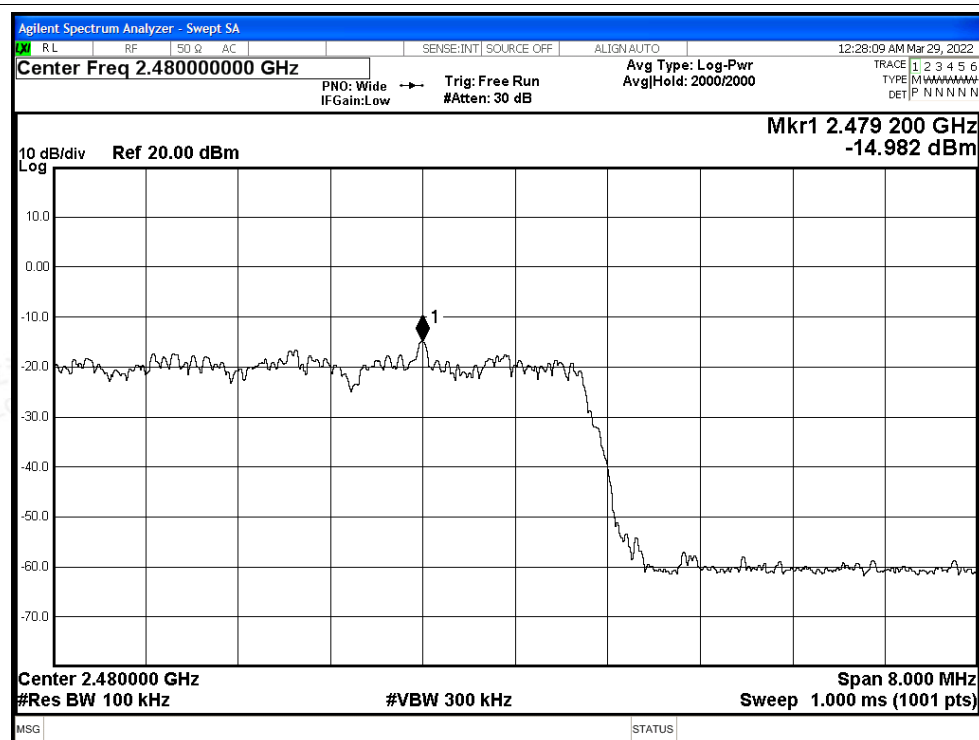
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

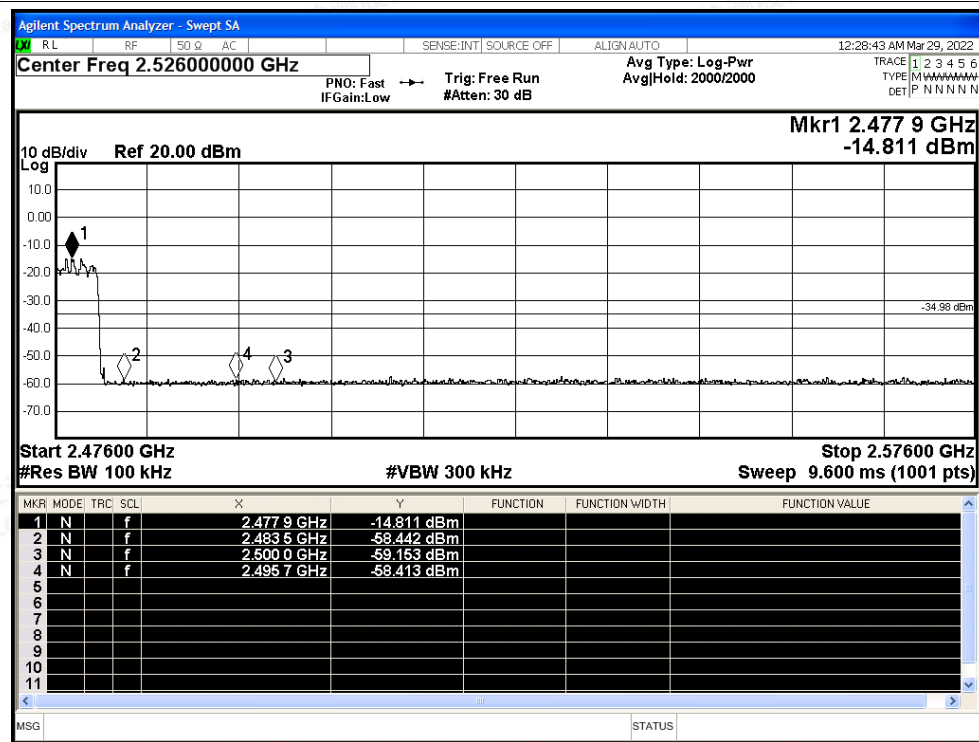
Scan code to check authenticity



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.

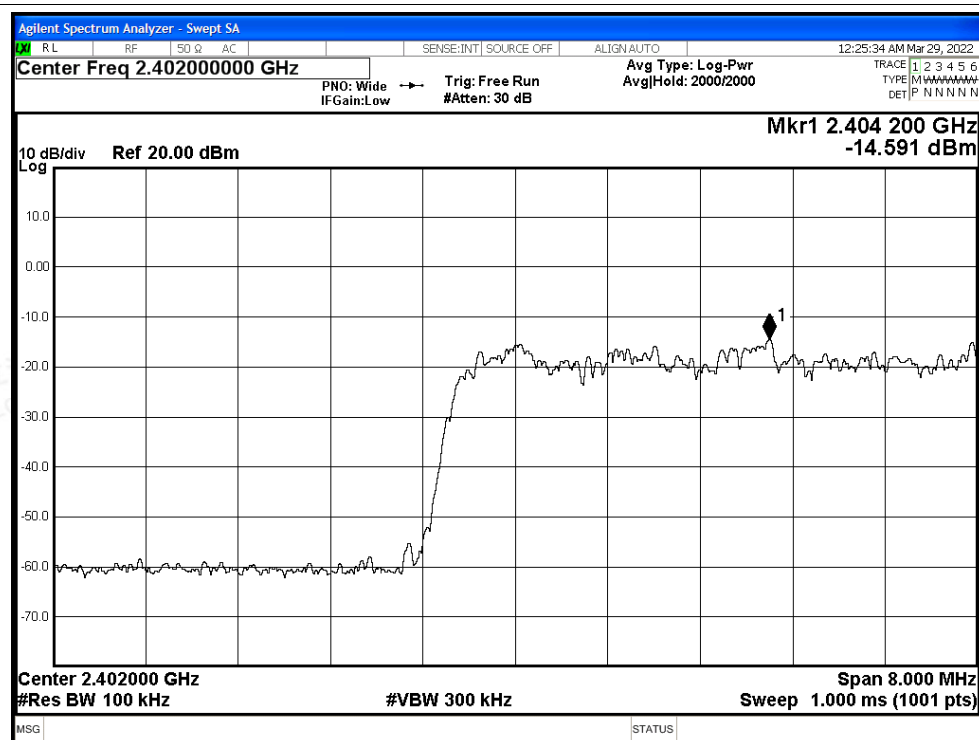
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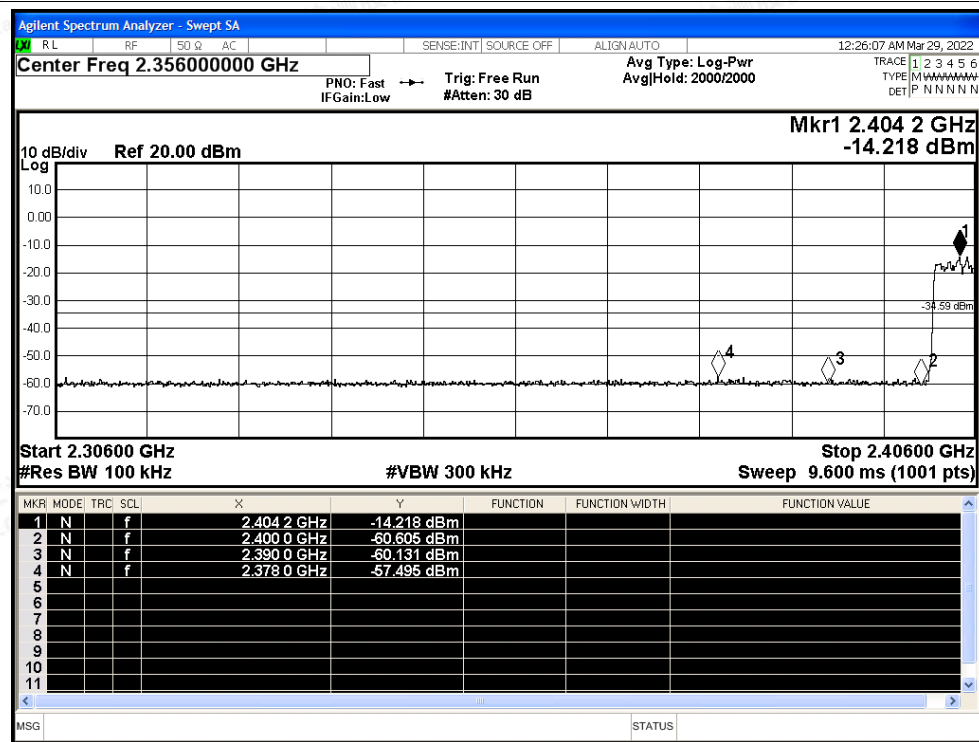
Scan code to check authenticity



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.

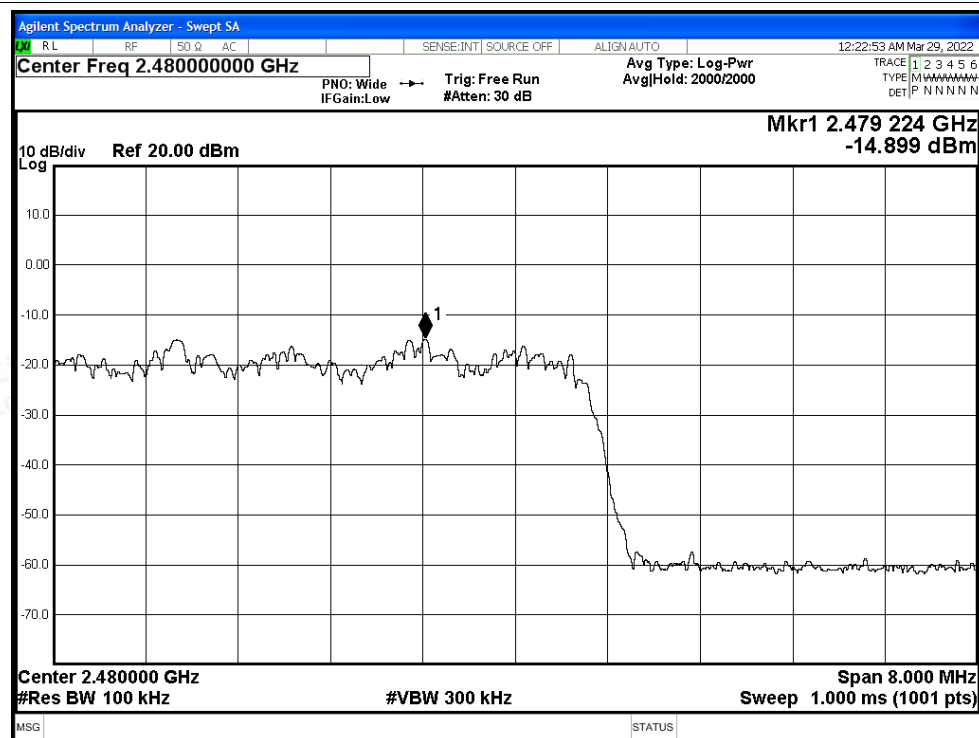
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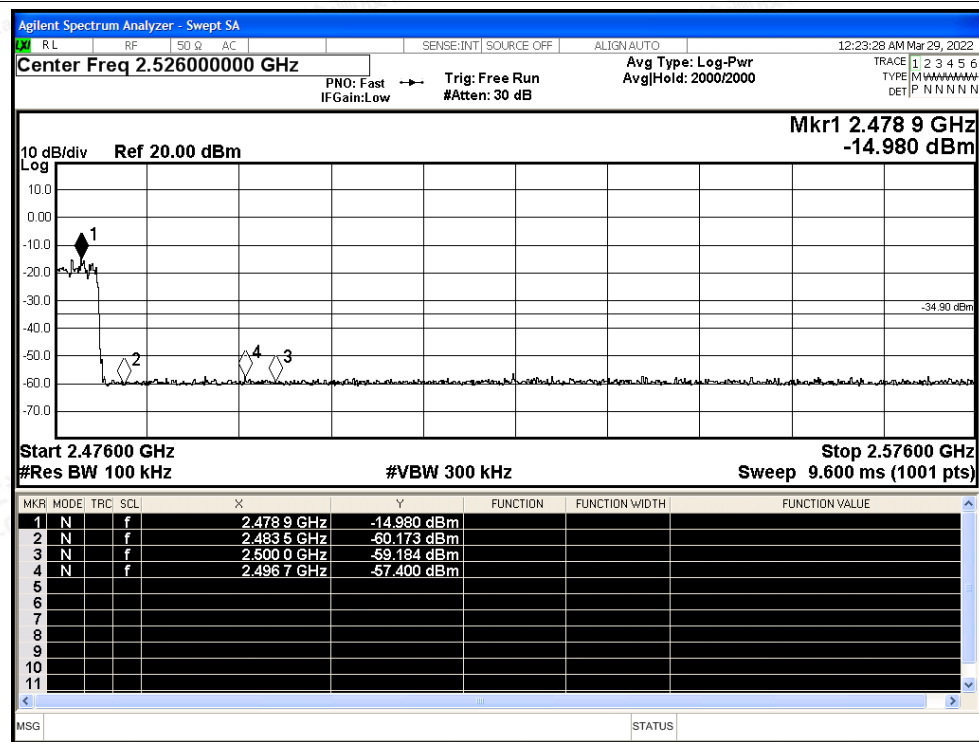
Scan code to check authenticity



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	-41.26	-20	Pass
NVNT	1-DH5	2441	Ant1	-42.1	-20	Pass
NVNT	1-DH5	2480	Ant1	-42.44	-20	Pass
NVNT	2-DH5	2402	Ant1	-41.27	-20	Pass
NVNT	2-DH5	2441	Ant1	-42.57	-20	Pass
NVNT	2-DH5	2480	Ant1	-42.36	-20	Pass
NVNT	3-DH5	2402	Ant1	-41.57	-20	Pass
NVNT	3-DH5	2441	Ant1	-42.8	-20	Pass
NVNT	3-DH5	2480	Ant1	-42.44	-20	Pass



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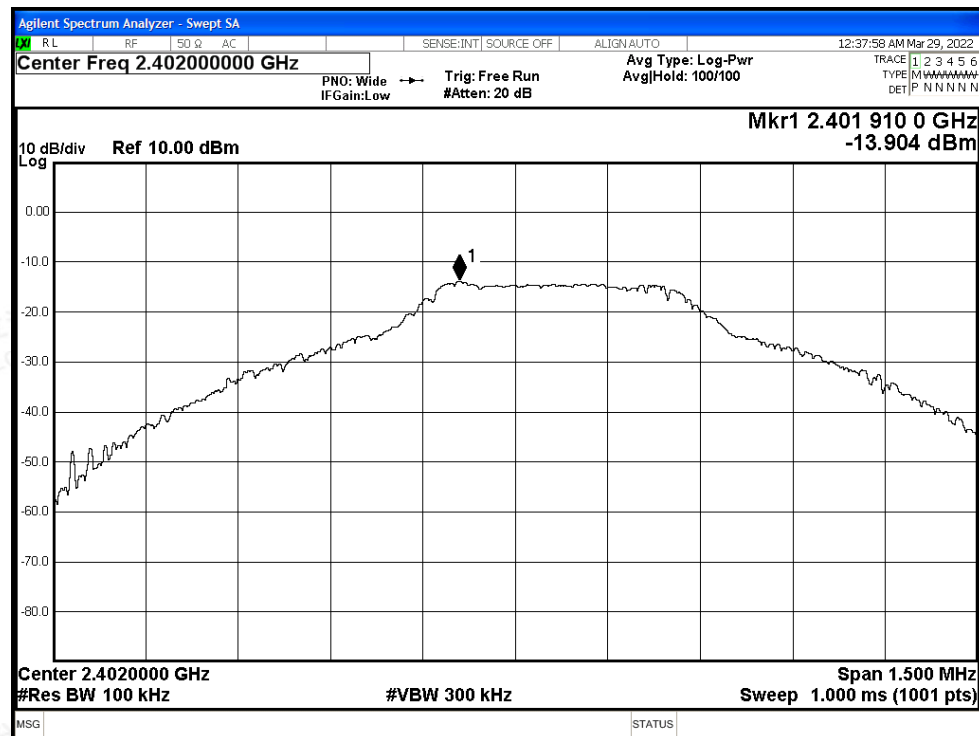
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

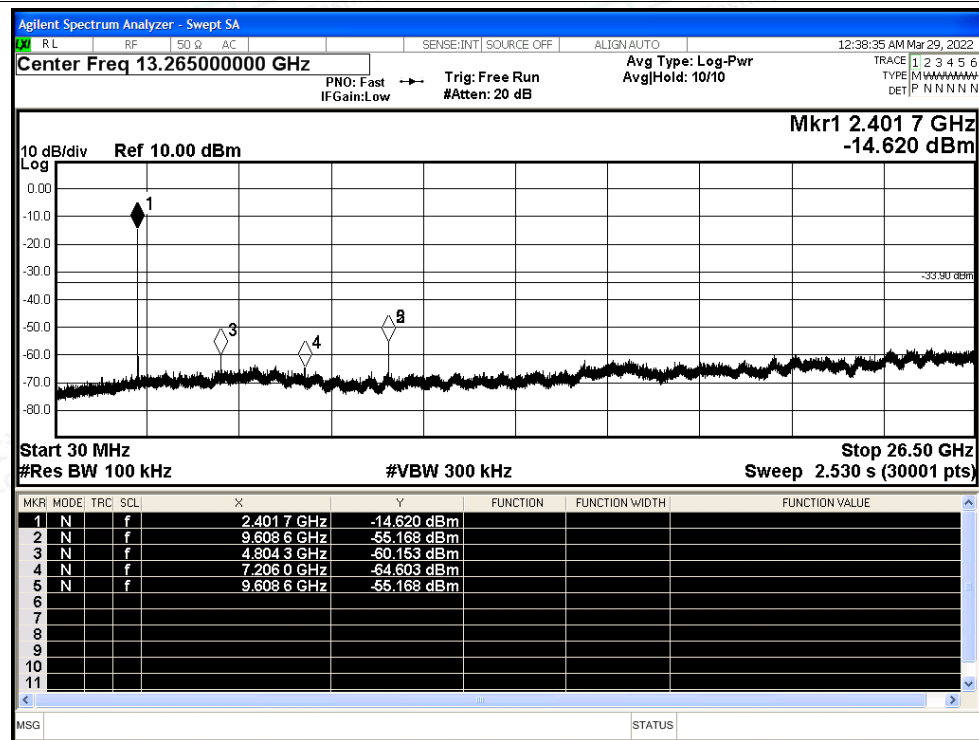


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

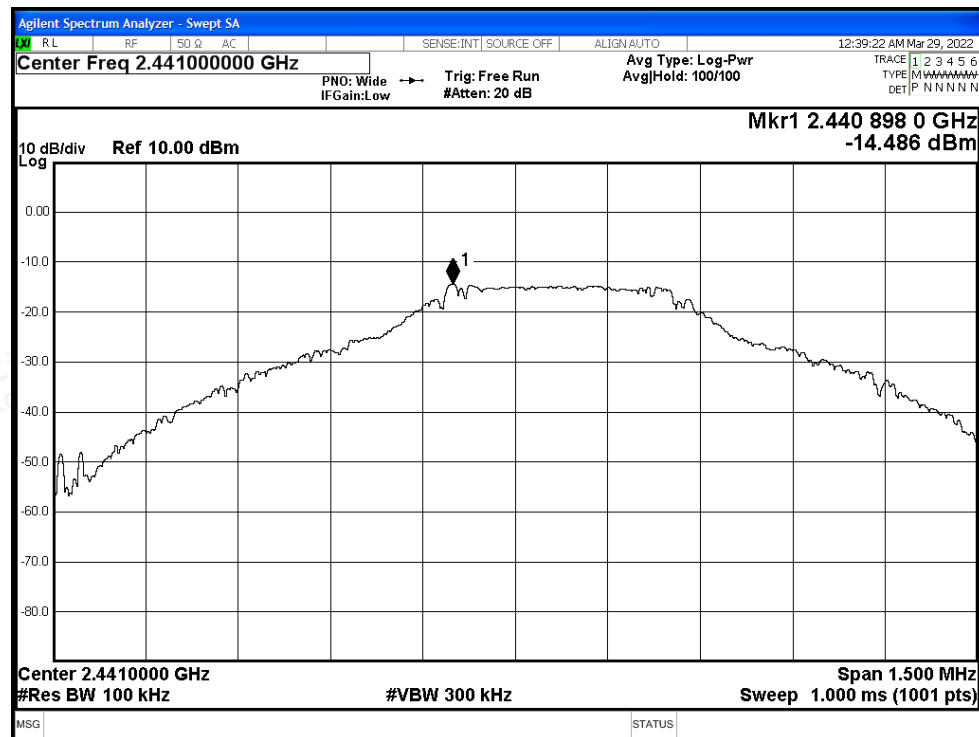
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

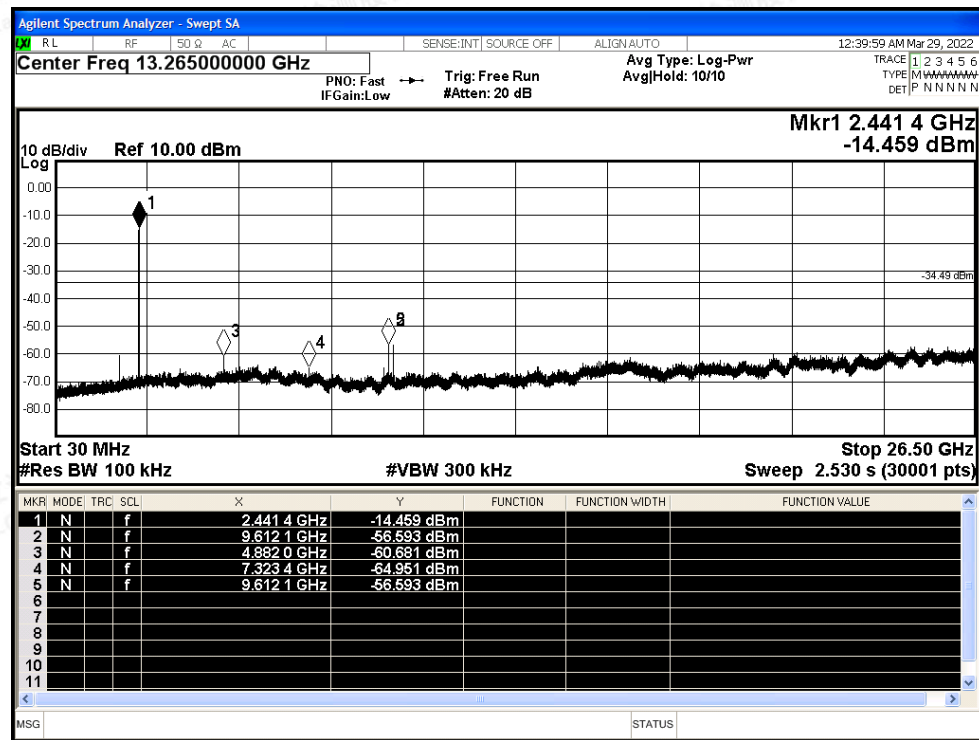
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

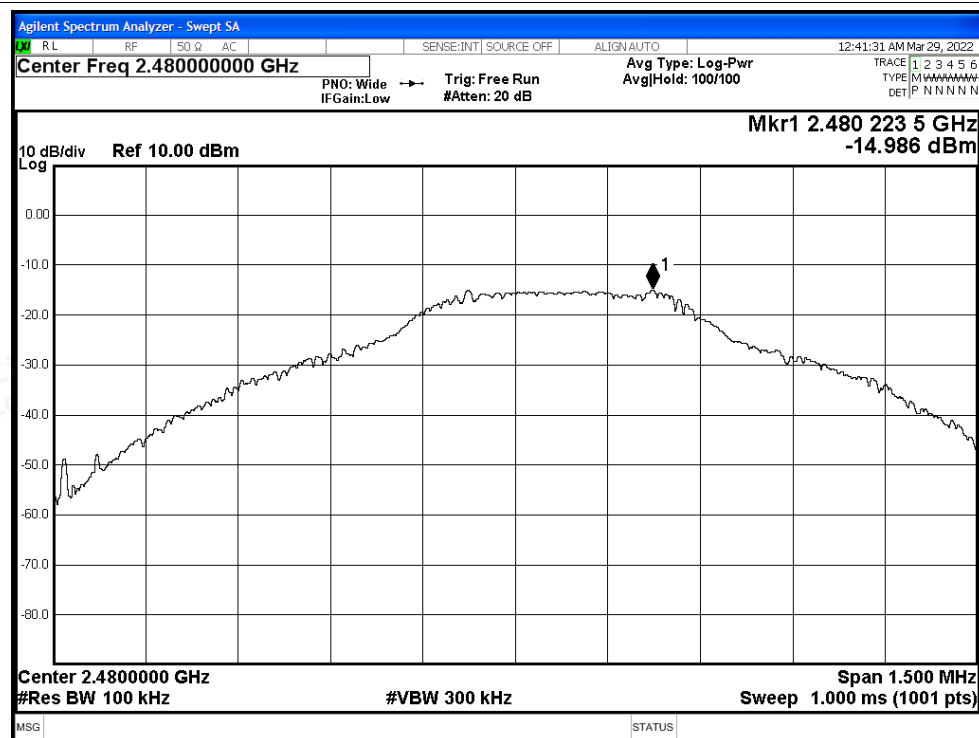
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

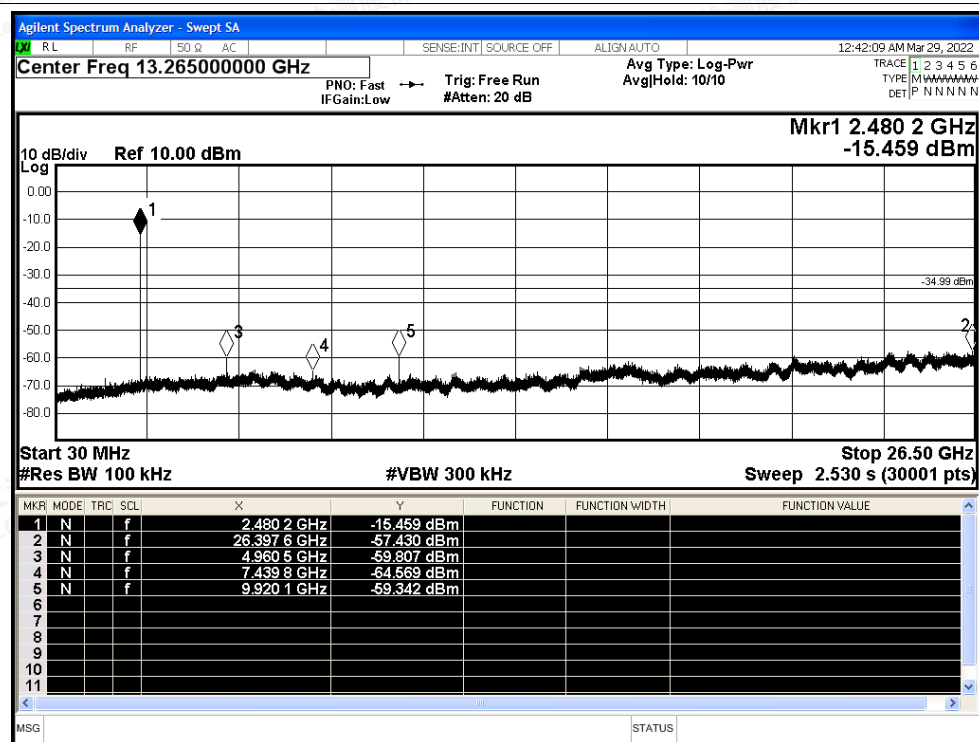
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

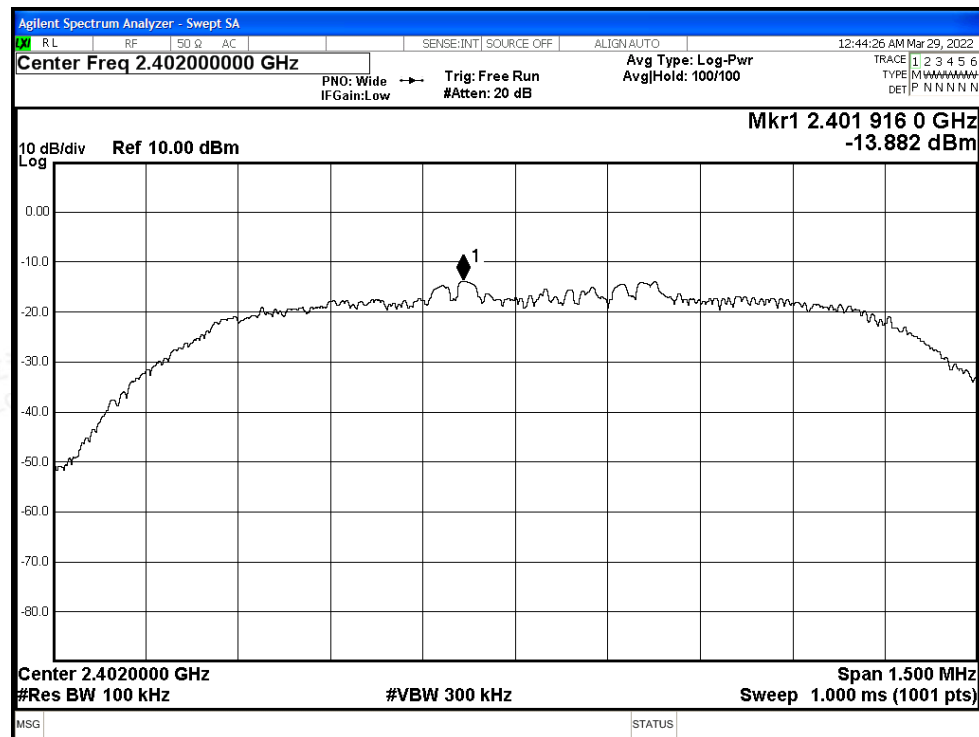
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

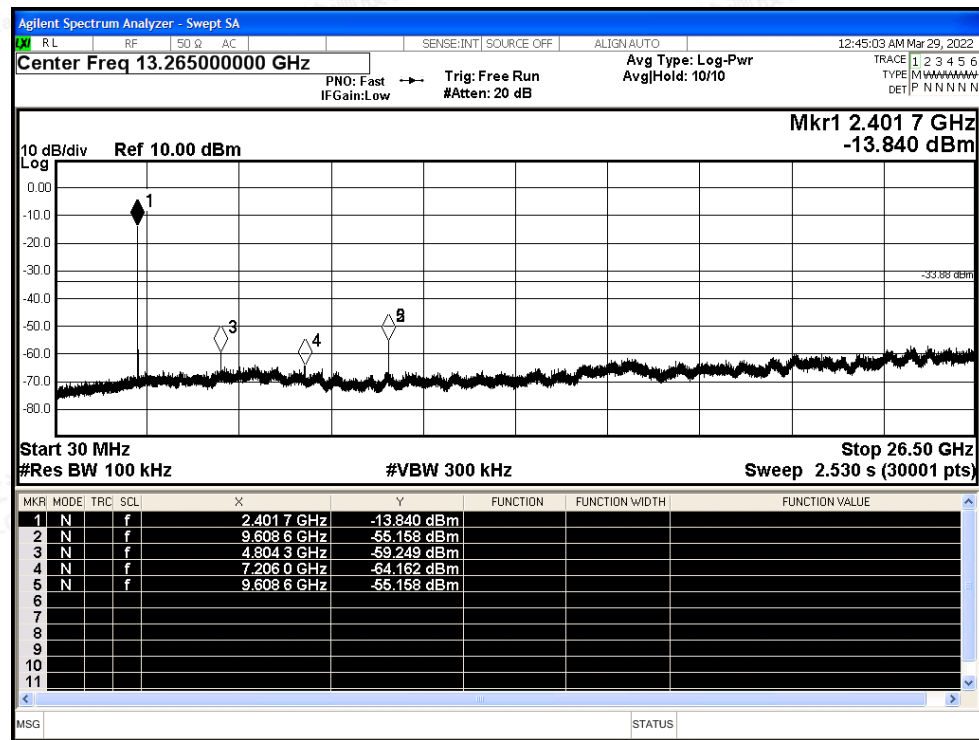
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

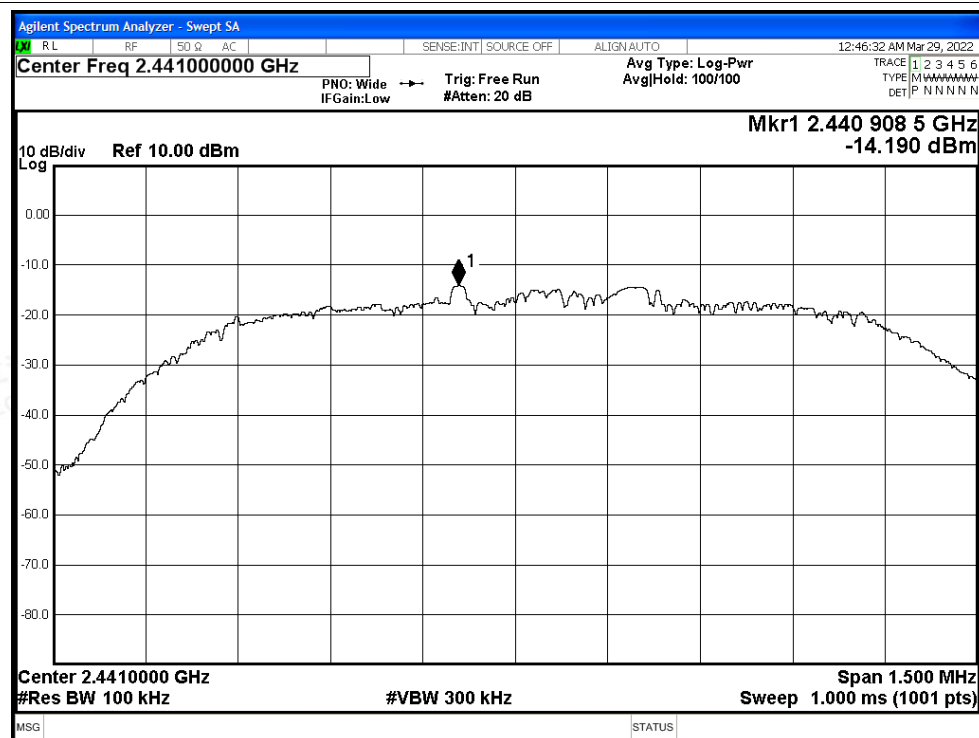
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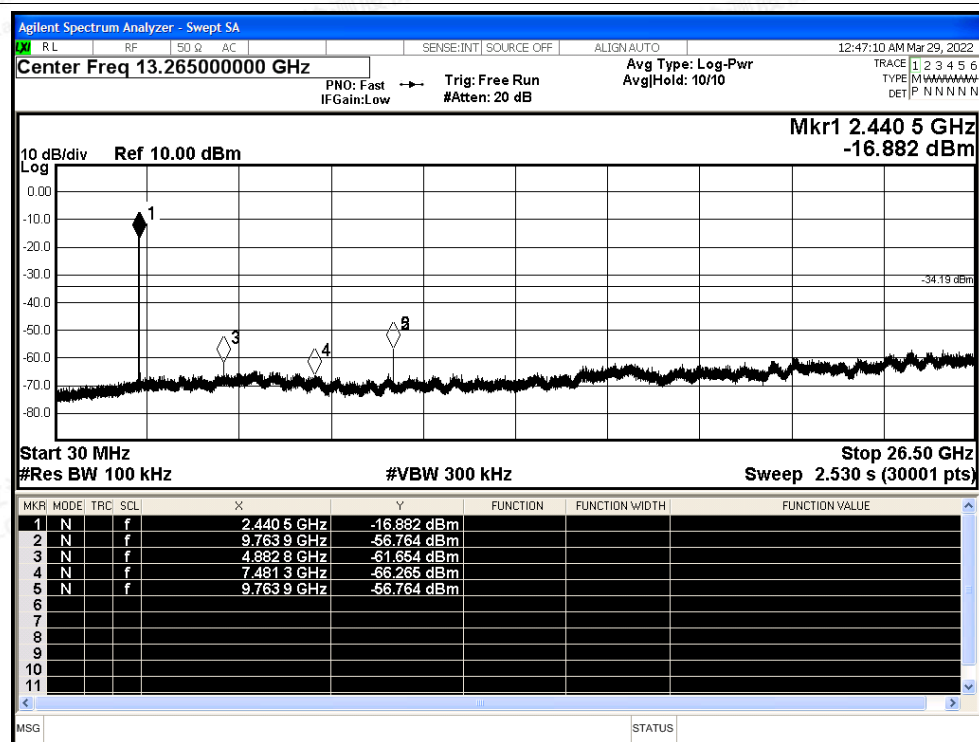
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

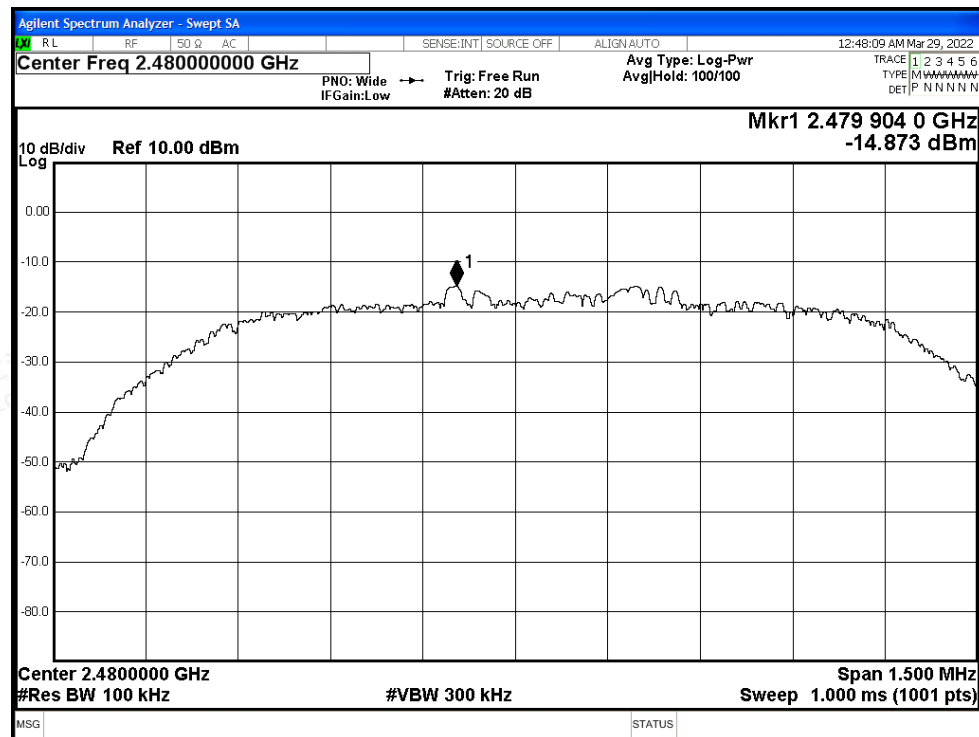
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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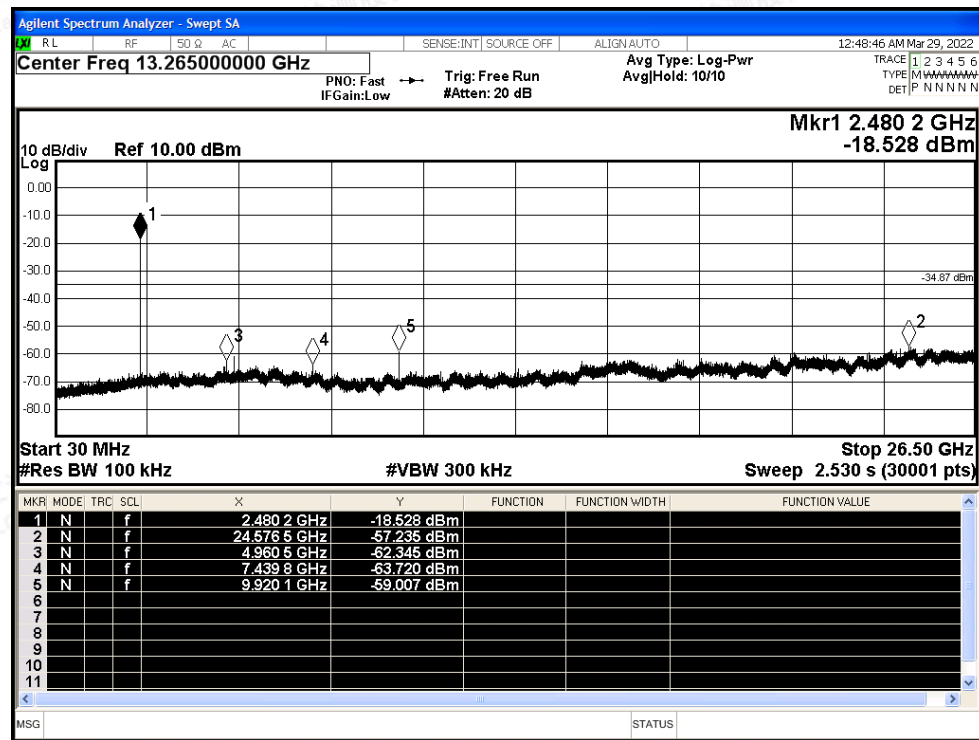
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

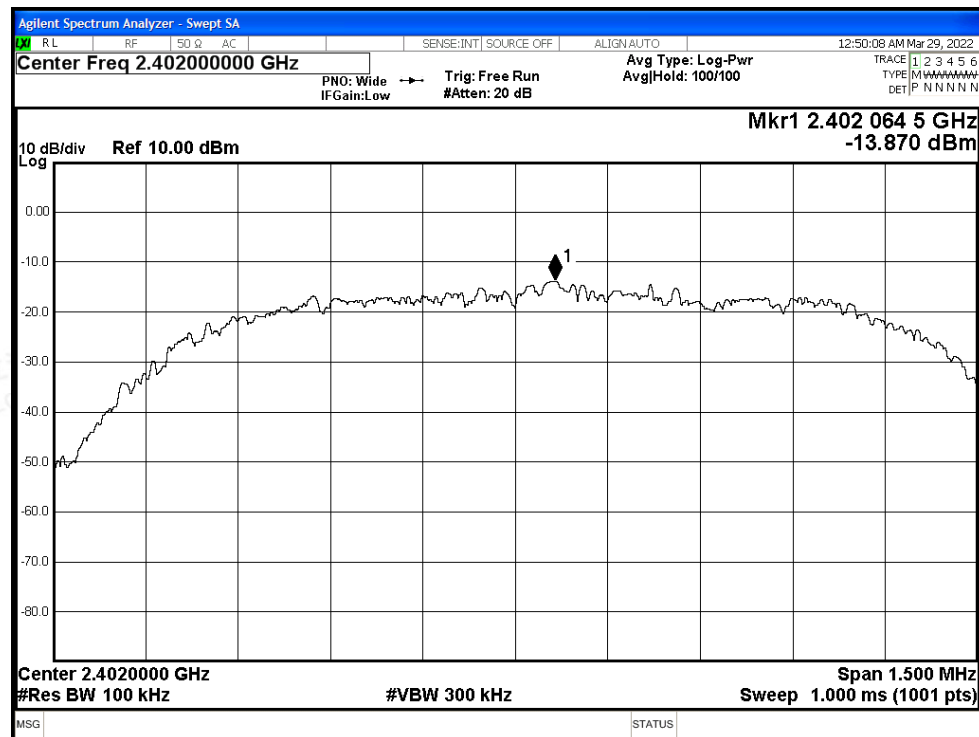
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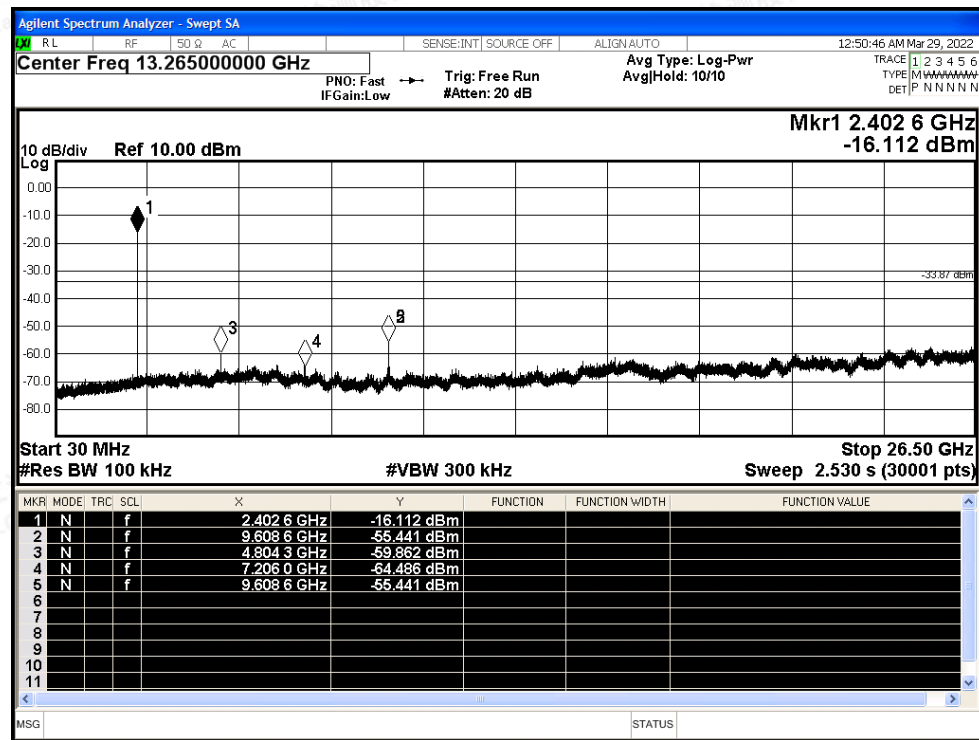
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

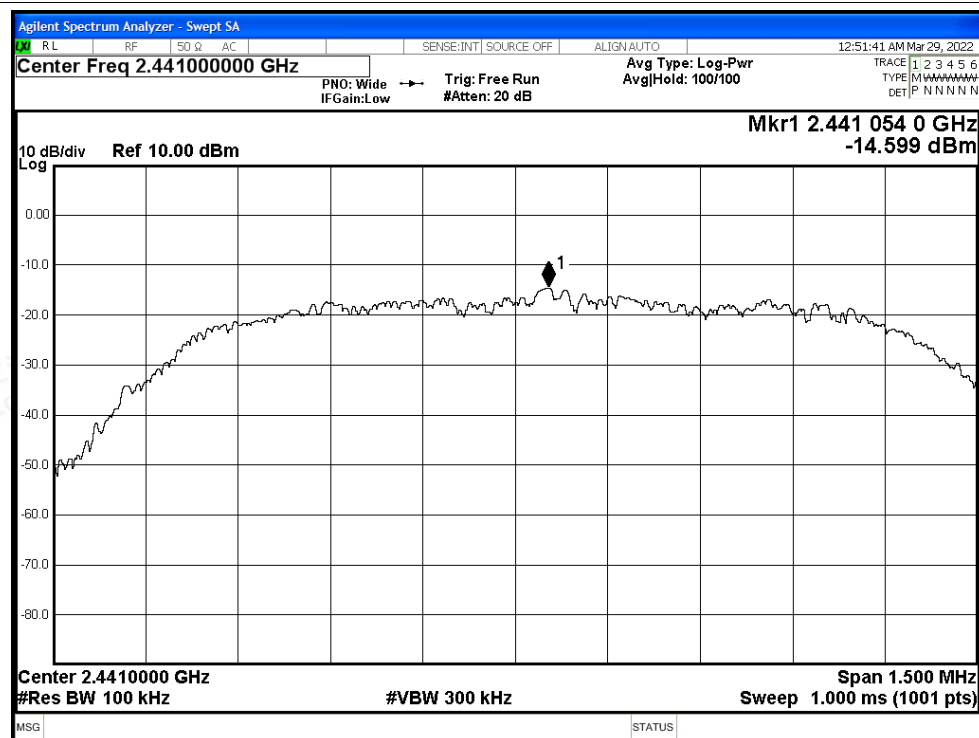
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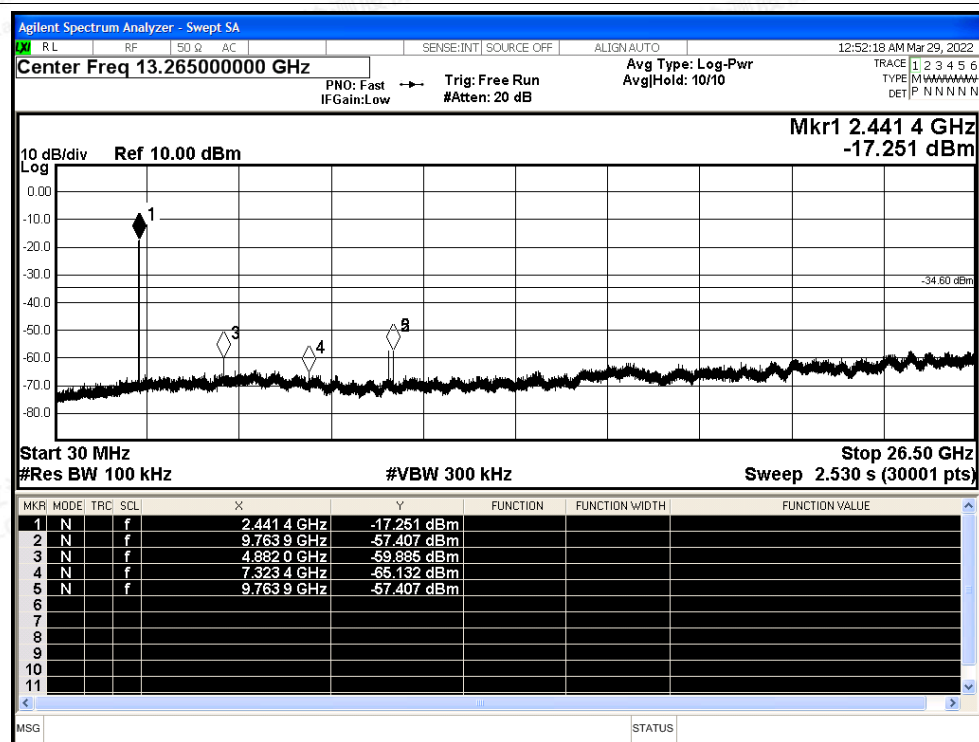
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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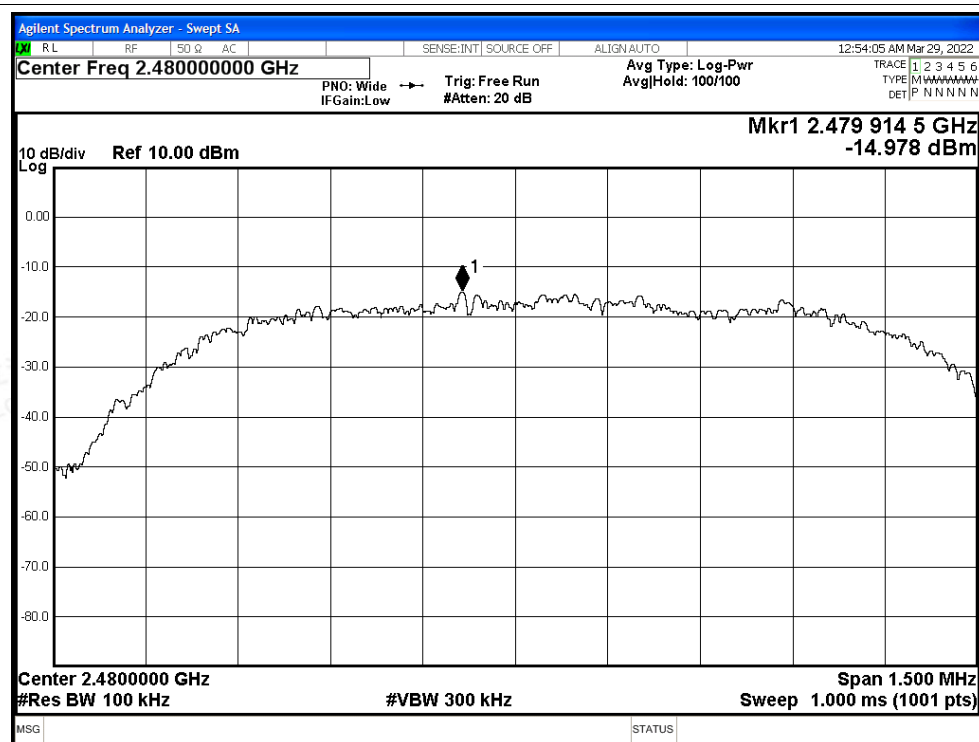
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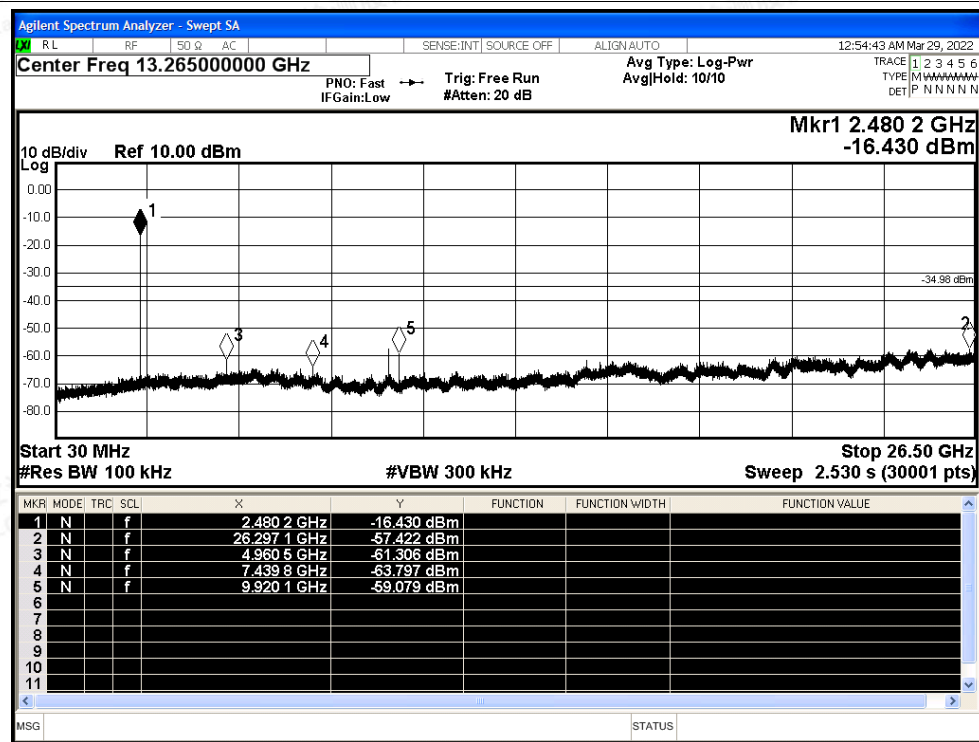
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 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	-52.18	2	45.08	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.05	2	35.21	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.336	-48.32	2	48.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.768	-61.51	2	35.75	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.89	2	45.37	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.73	2	35.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.87	2	45.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.36	2	35.9	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.856	-48.16	2	49.1	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.728	-61.35	2	35.91	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.51	2	44.75	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.62	2	35.64	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.6	2	44.66	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.1	2	35.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.712	-48.95	2	48.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2370.384	-61.51	2	35.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-53.01	2	44.25	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.72	2	35.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.39	2	46.87	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-61.33	2	35.93	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.04	-48.93	2	48.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-61.32	2	35.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-52.52	2	44.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.65	2	35.61	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.43	2	44.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.04	2	35.22	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.504	-48.85	2	48.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.376	-61.55	2	35.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-53.03	2	44.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.73	2	35.53	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.28	2	44.98	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-61.77	2	35.49	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.52	-48.91	2	48.35	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.232	-61.4	2	35.86	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-52.27	2	44.99	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.62	2	35.64	Average	54	Pass



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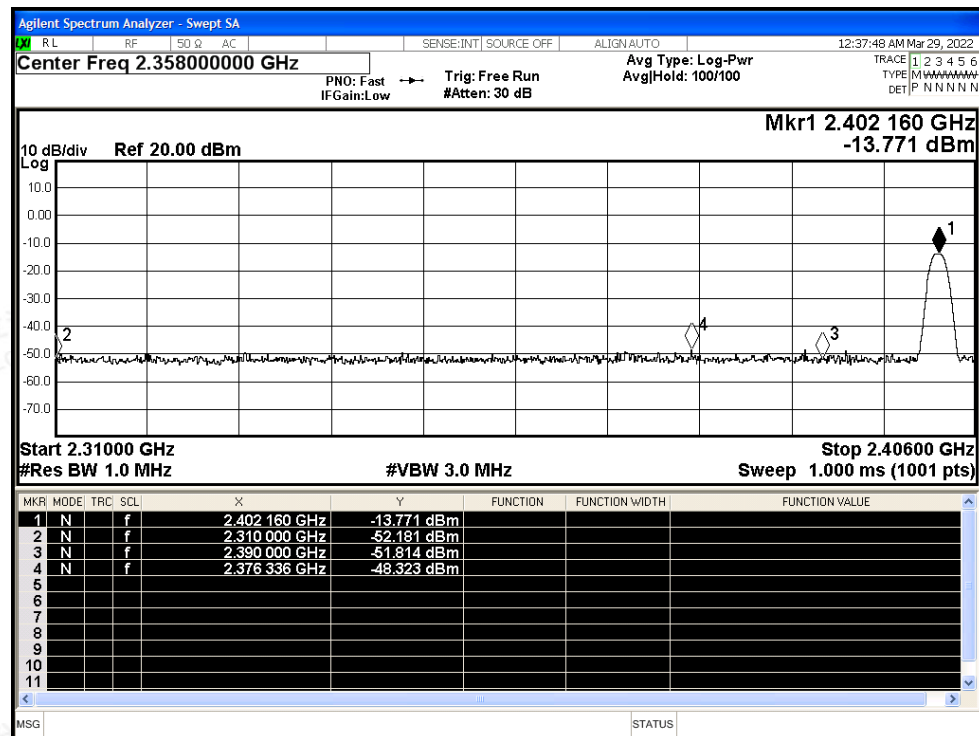
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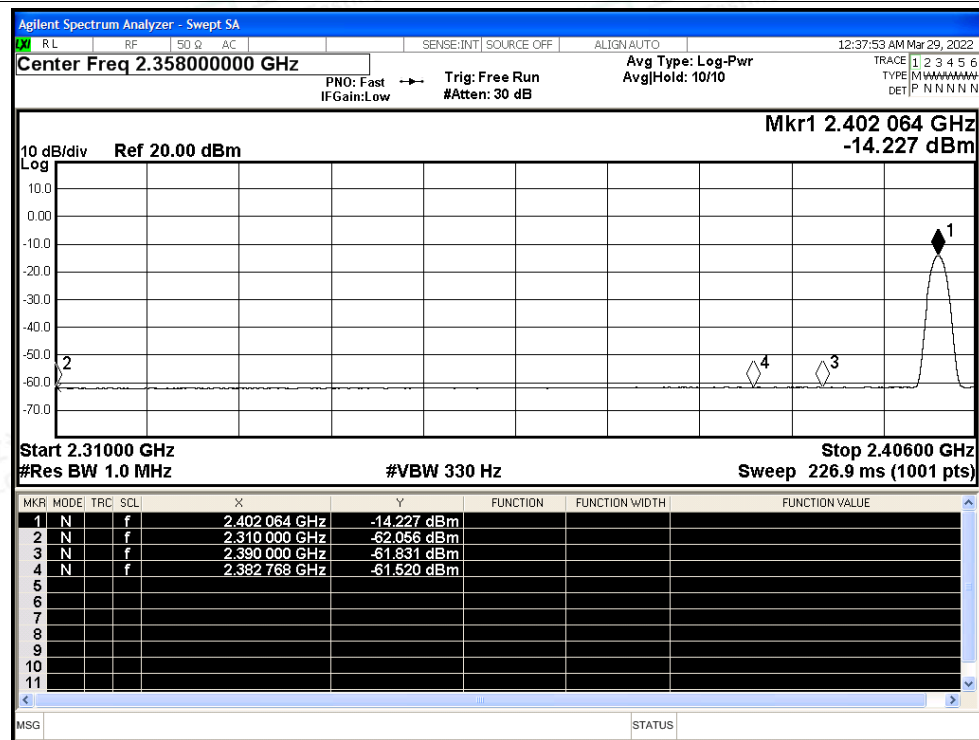


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

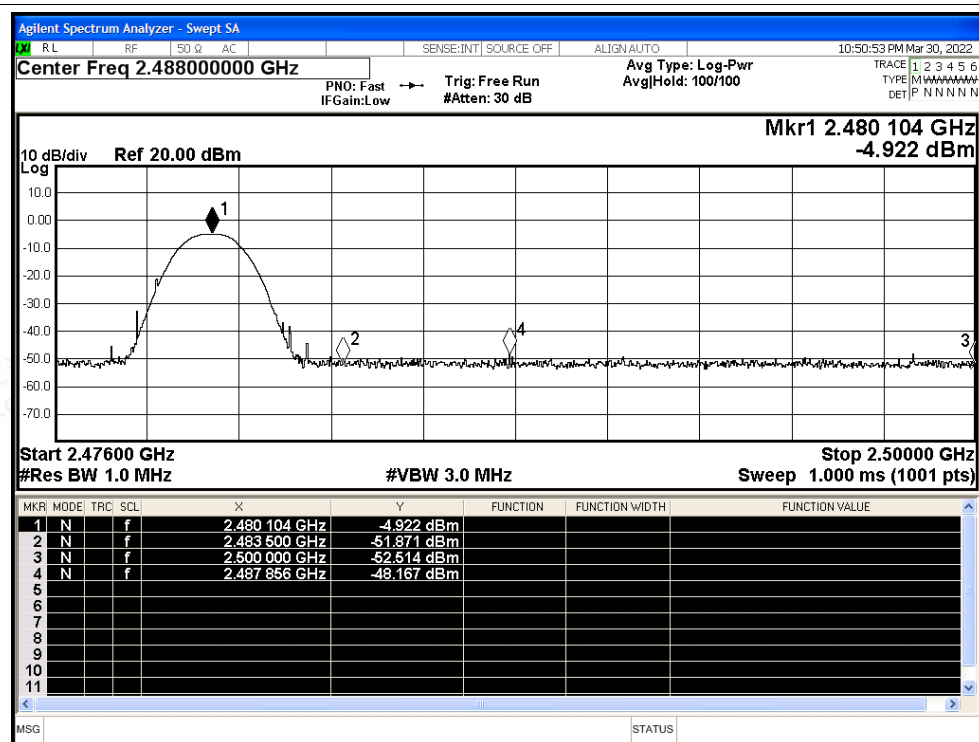
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

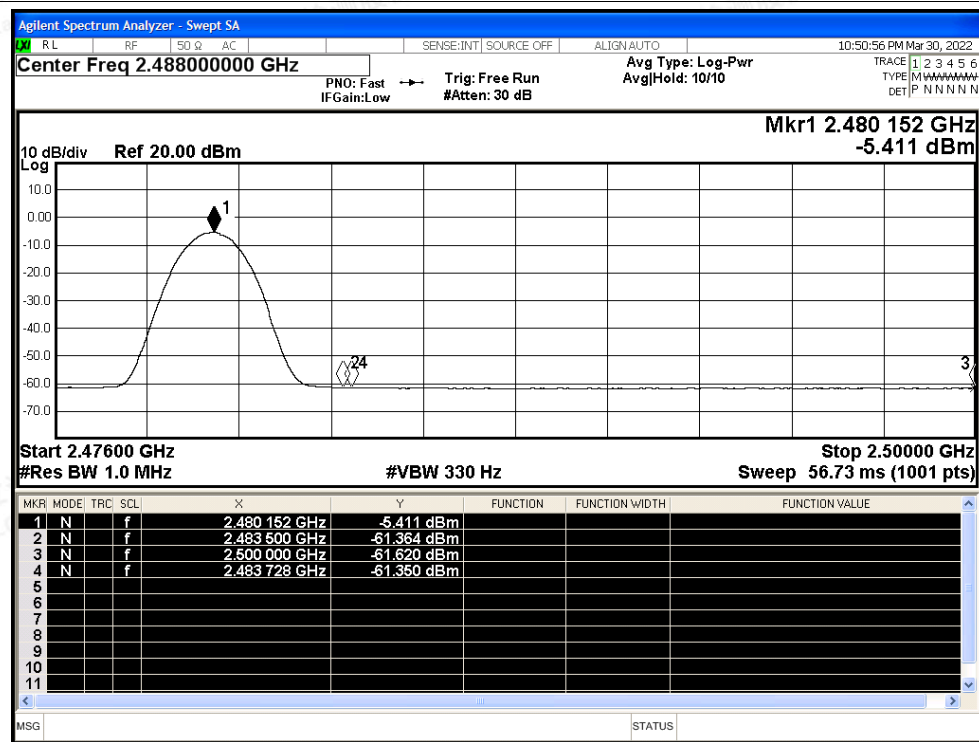
Scan code to check authenticity



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



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

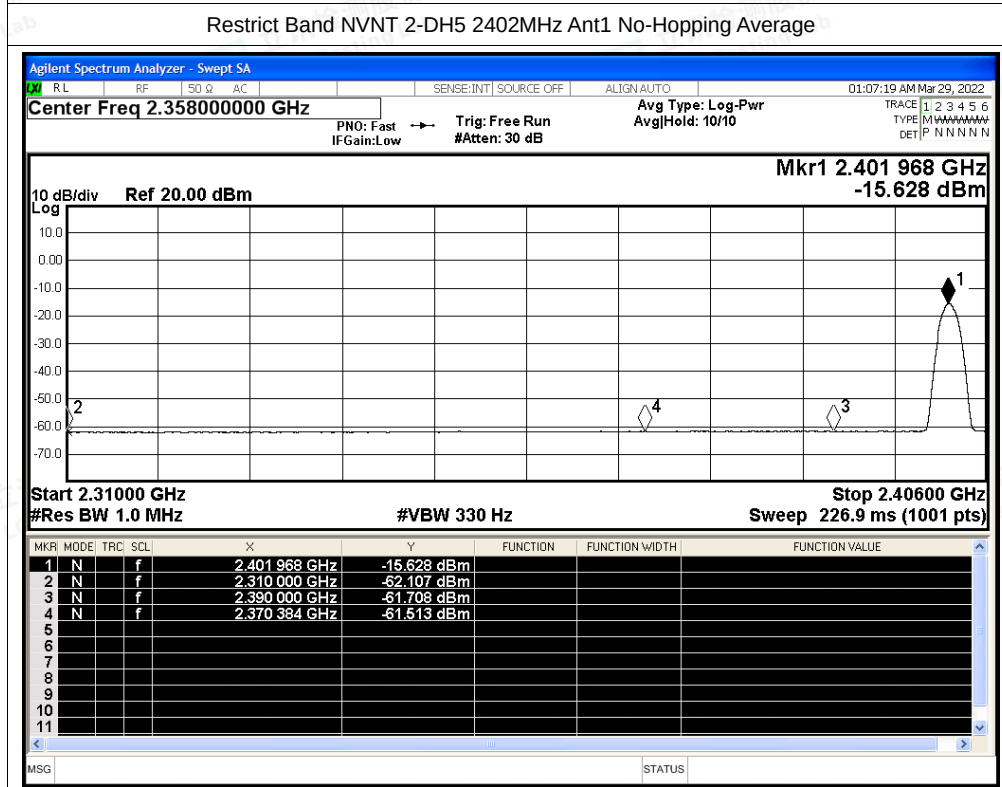
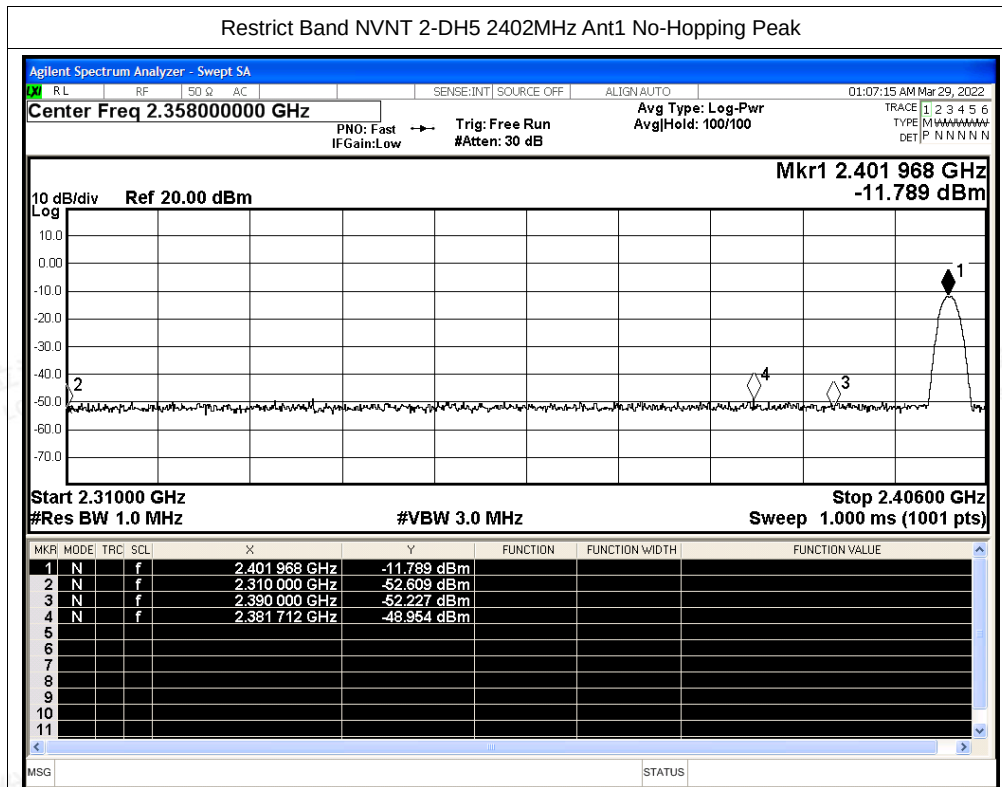


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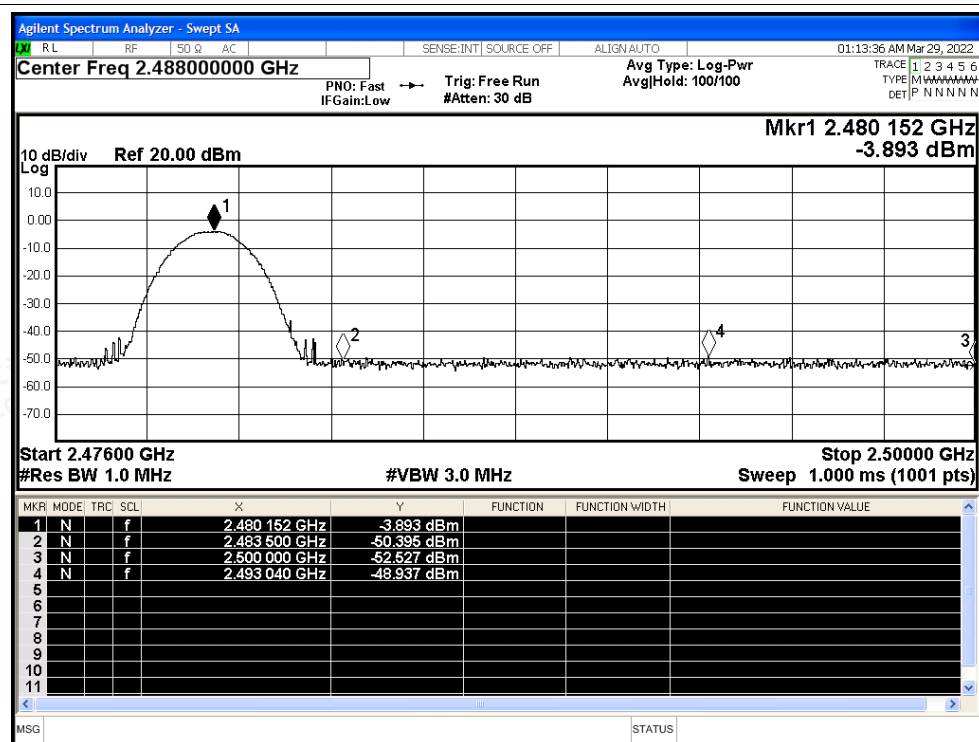
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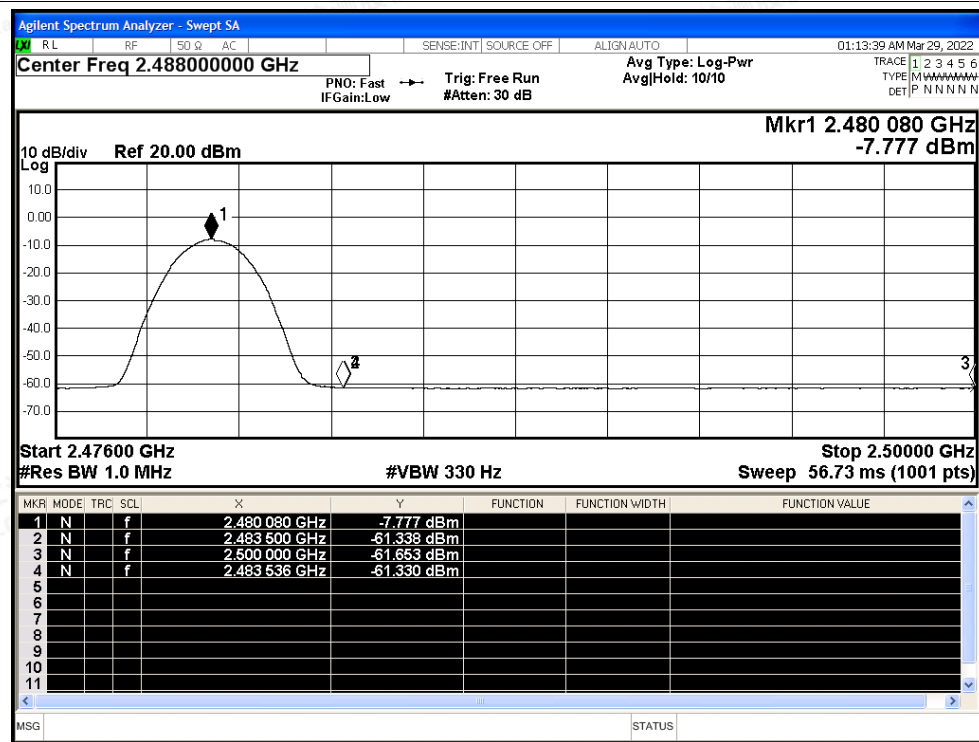
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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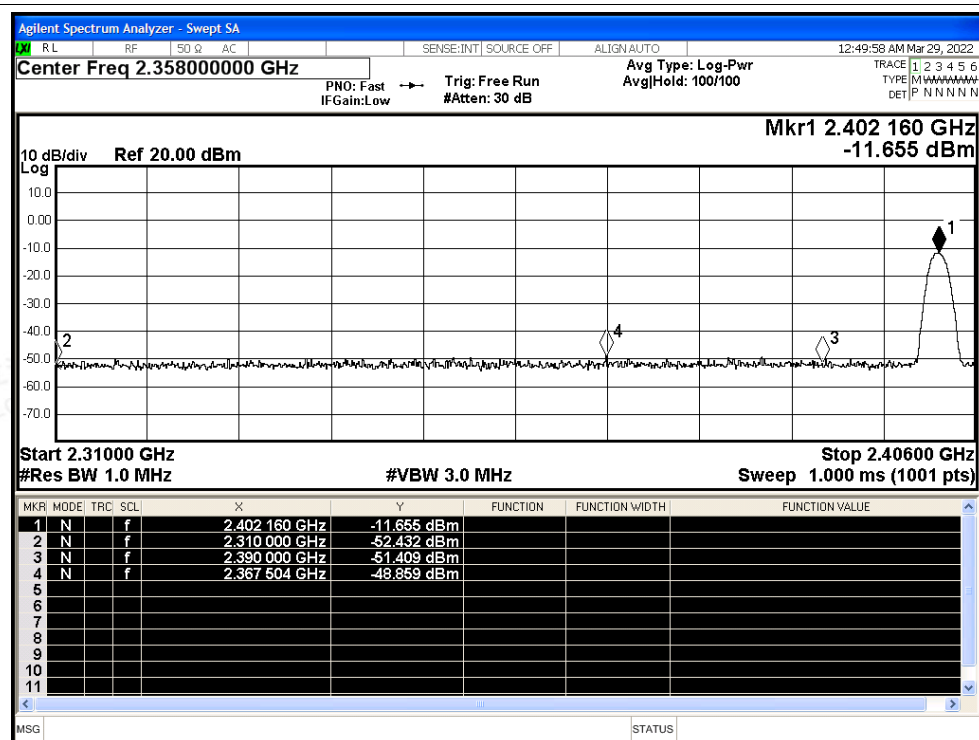
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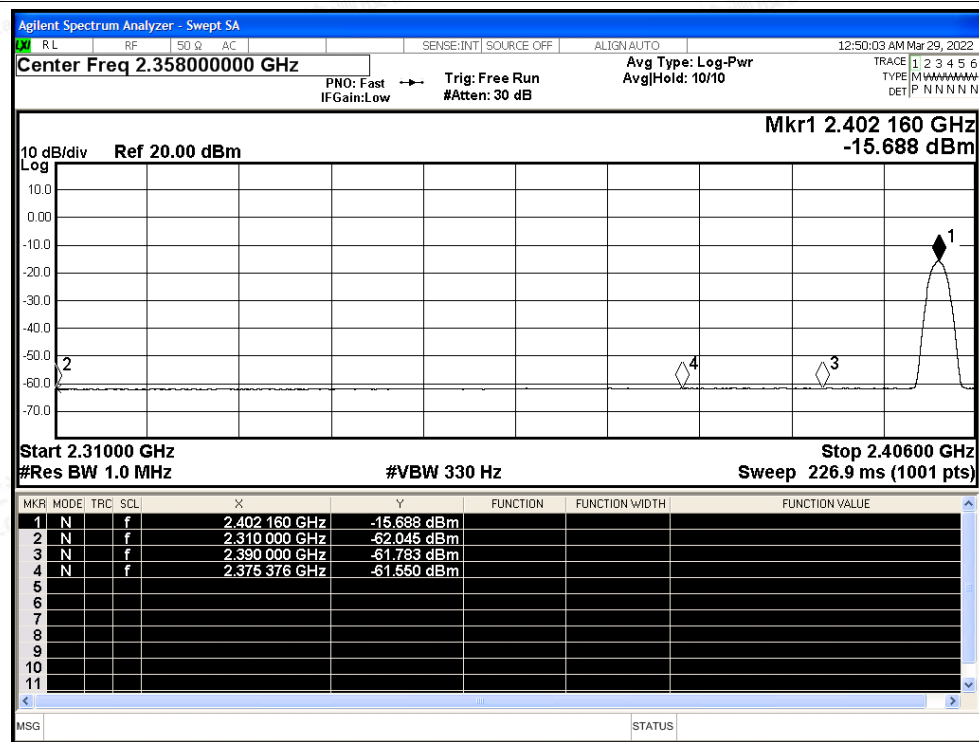
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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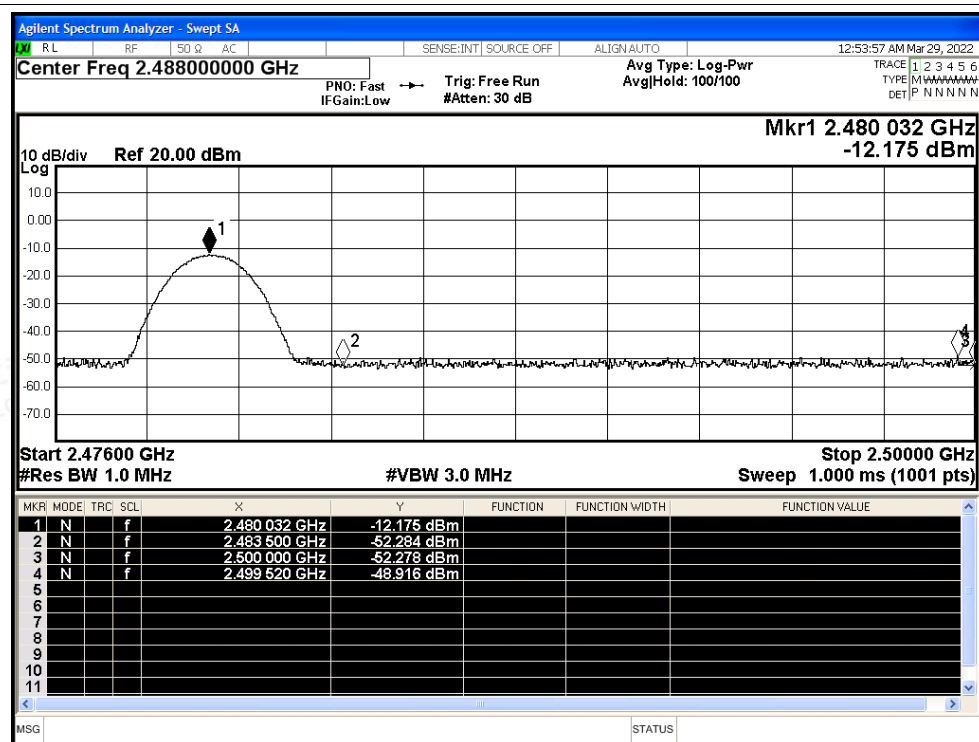
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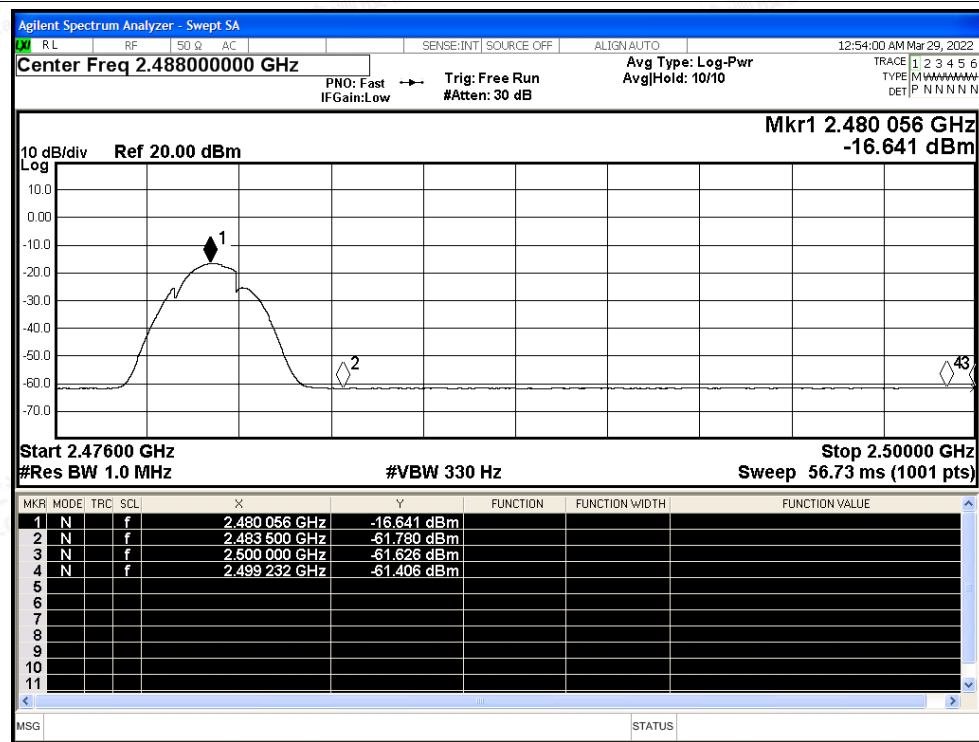
Scan code to check authenticity



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



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



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