



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: K52S Series Smart Switch

Test Model: TY-TJ-WUSK52S-L4D

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li huan





A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.61	0.5	Pass
NVNT	b	2437	9.594	0.5	Pass
NVNT	b	2462	9.622	0.5	Pass
NVNT	g	2412	16.128	0.5	Pass
NVNT	g	2437	15.91	0.5	Pass
NVNT	g	2462	15.821	0.5	Pass
NVNT	n20	2412	17.58	0.5	Pass
NVNT	n20	2437	17.14	0.5	Pass
NVNT	n20	2462	17.409	0.5	Pass
NVNT	n40	2422	35.653	0.5	Pass
NVNT	n40	2437	34.6	0.5	Pass
NVNT	n40	2452	35.054	0.5	Pass



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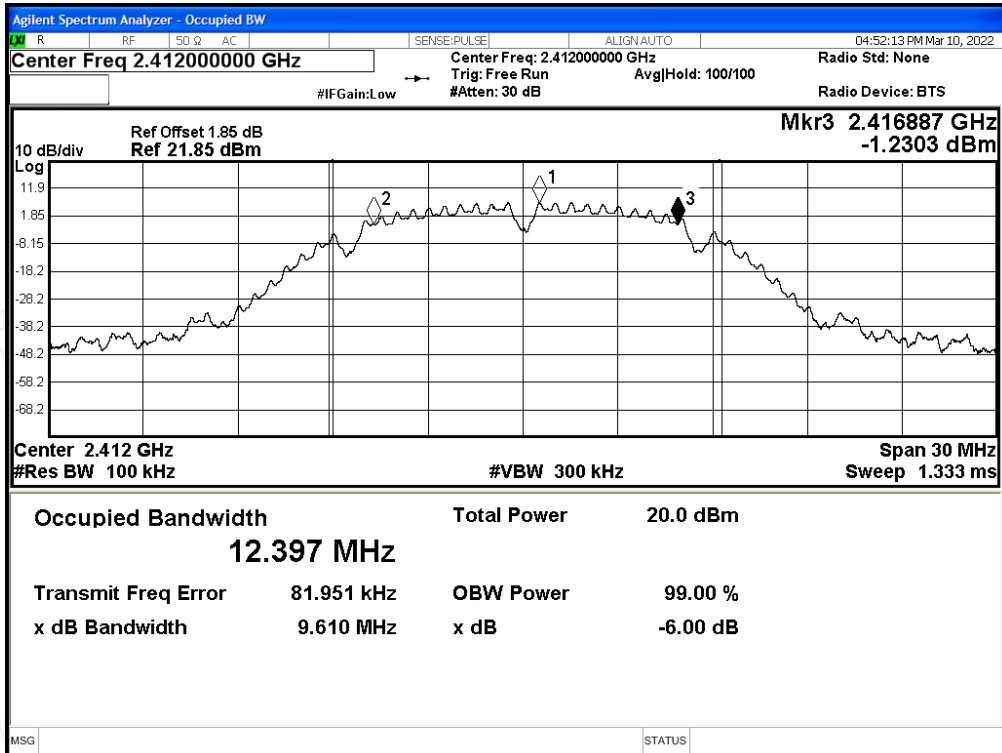
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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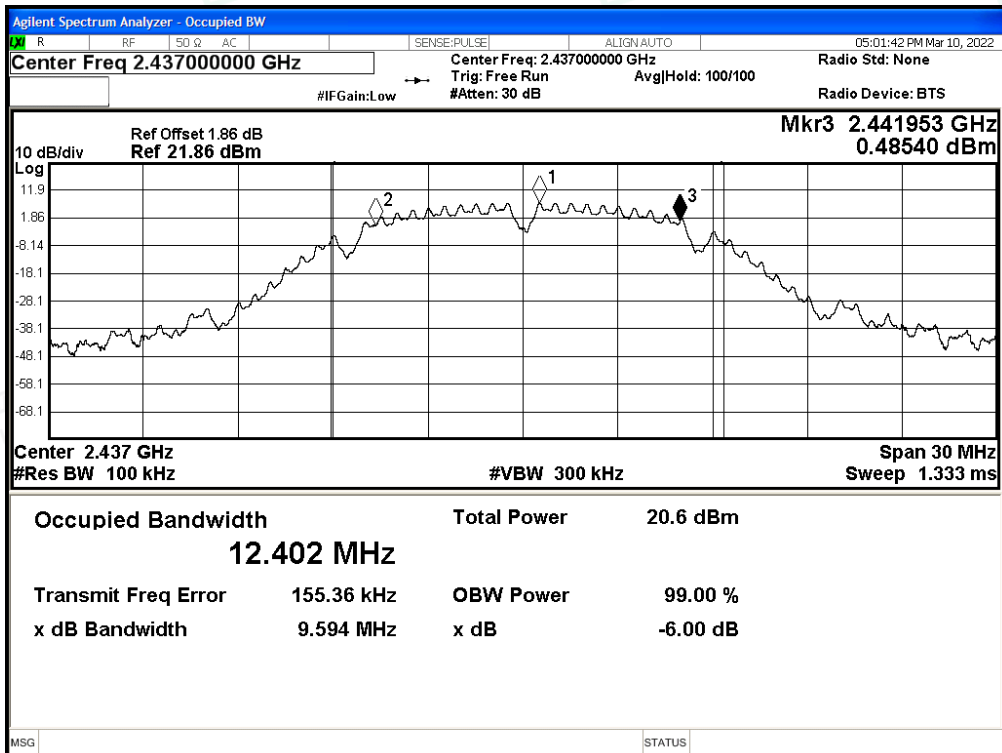


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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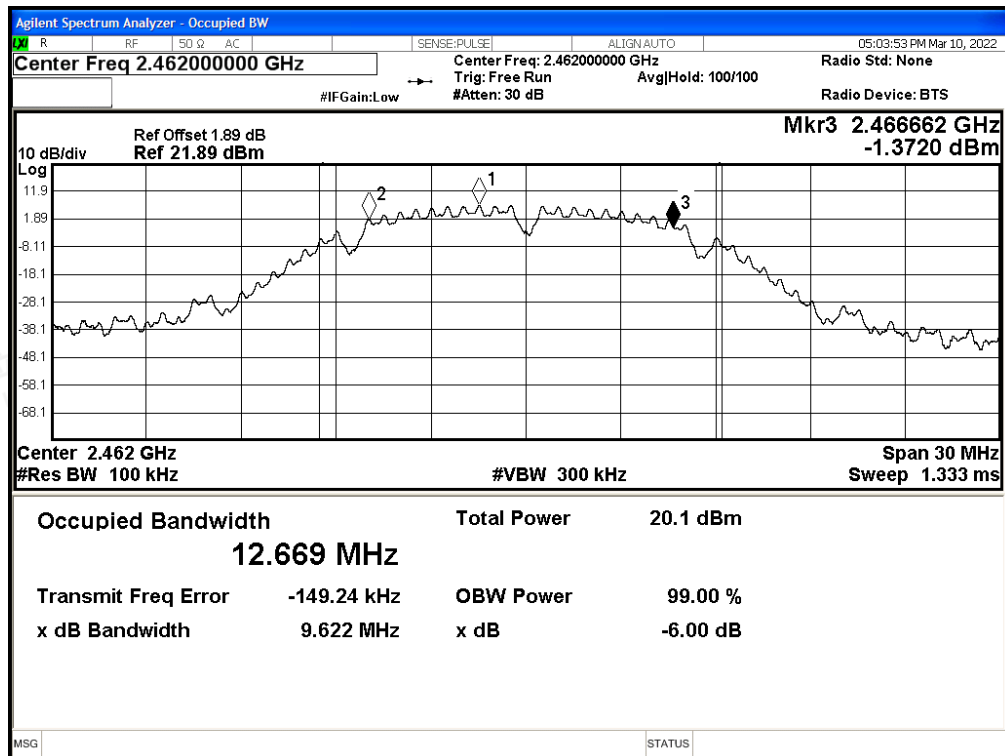
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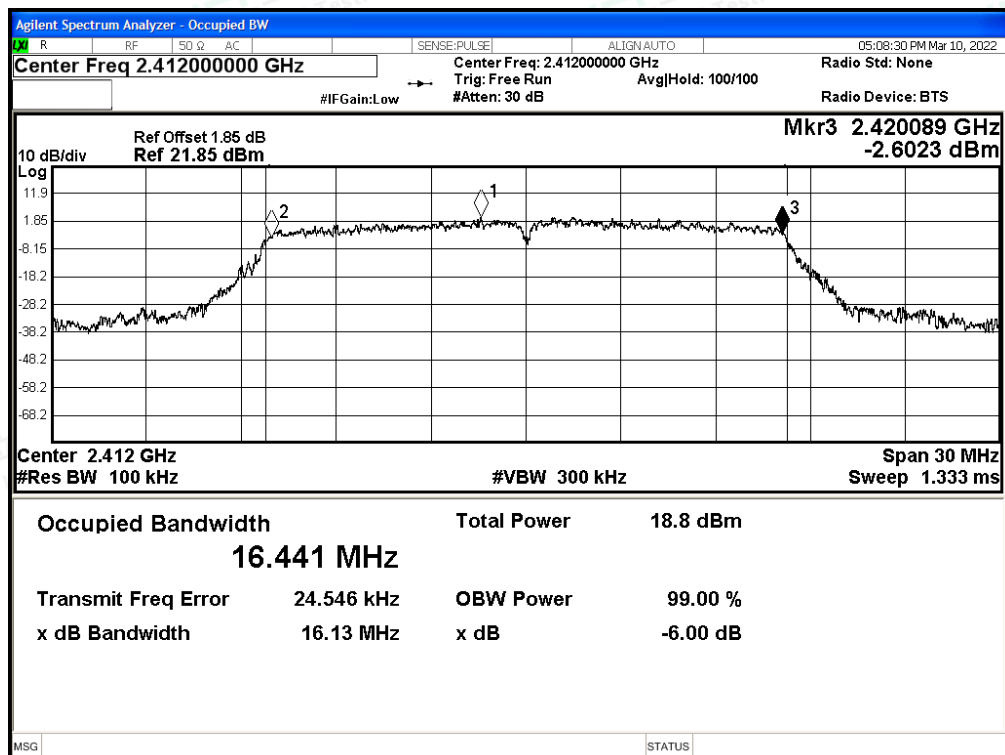
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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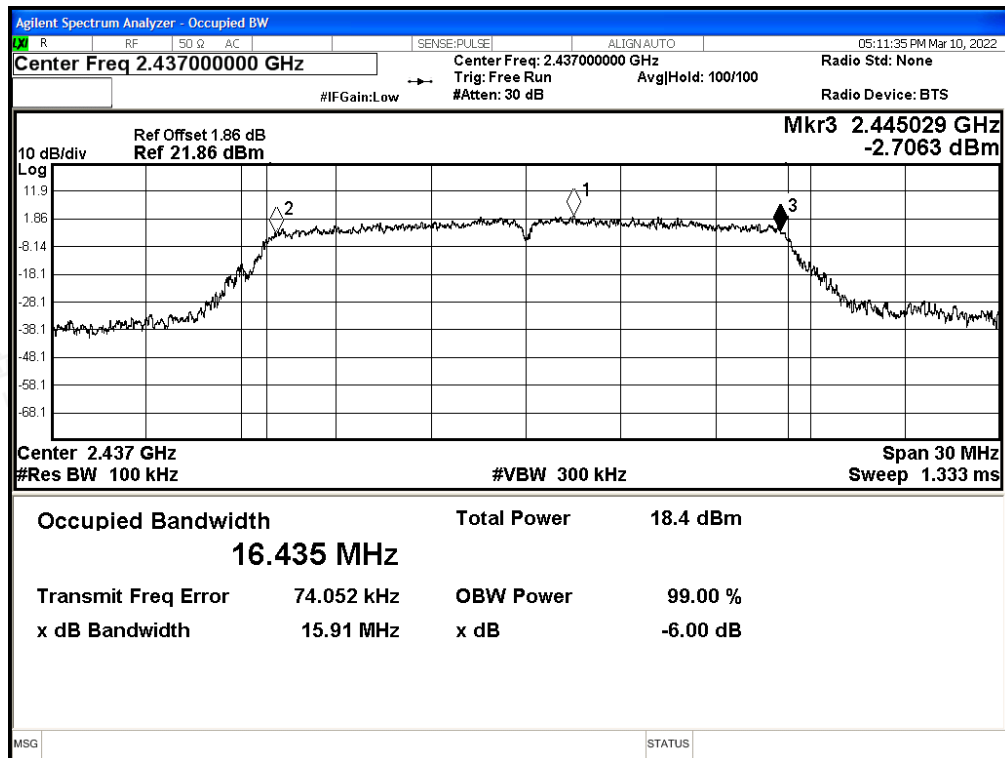
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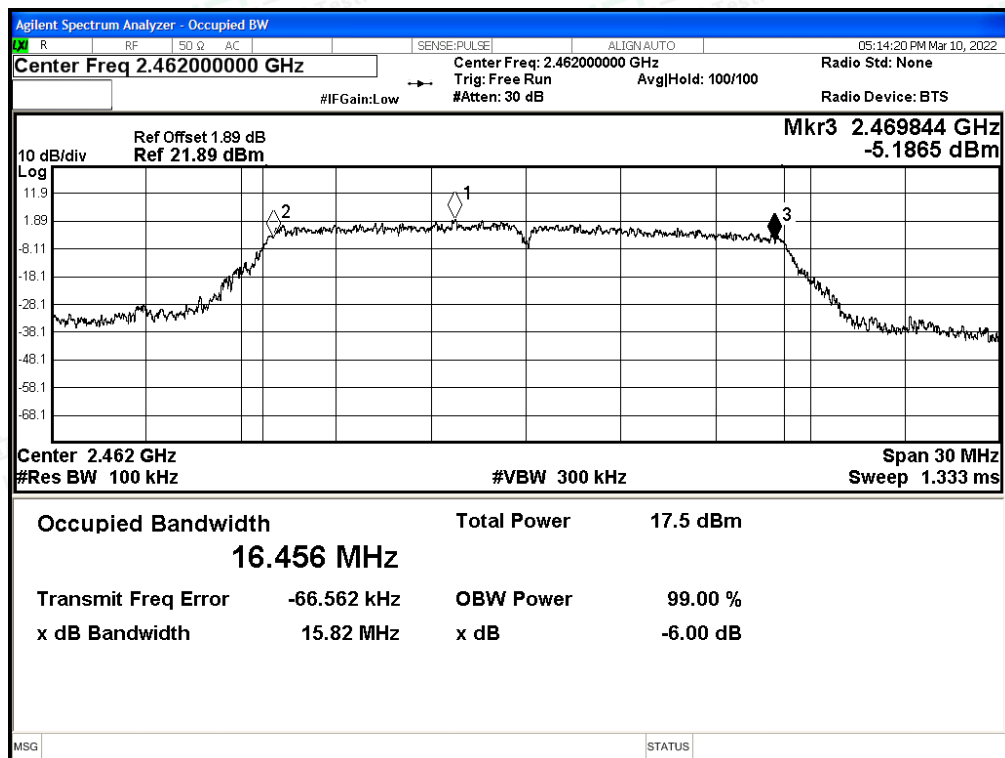
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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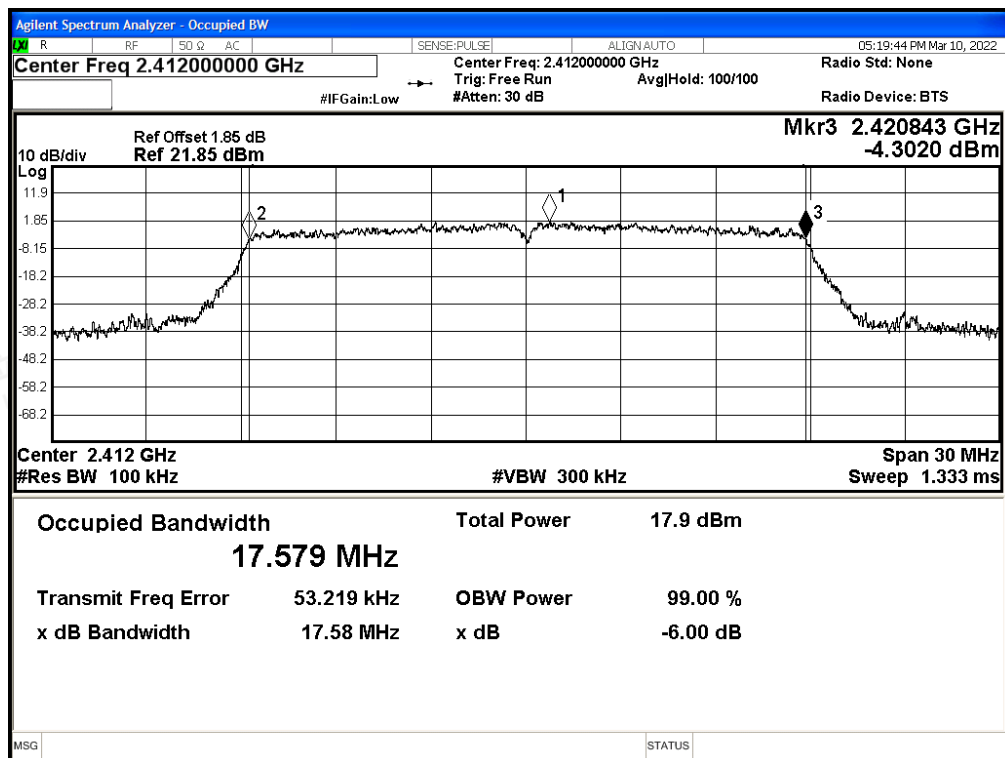
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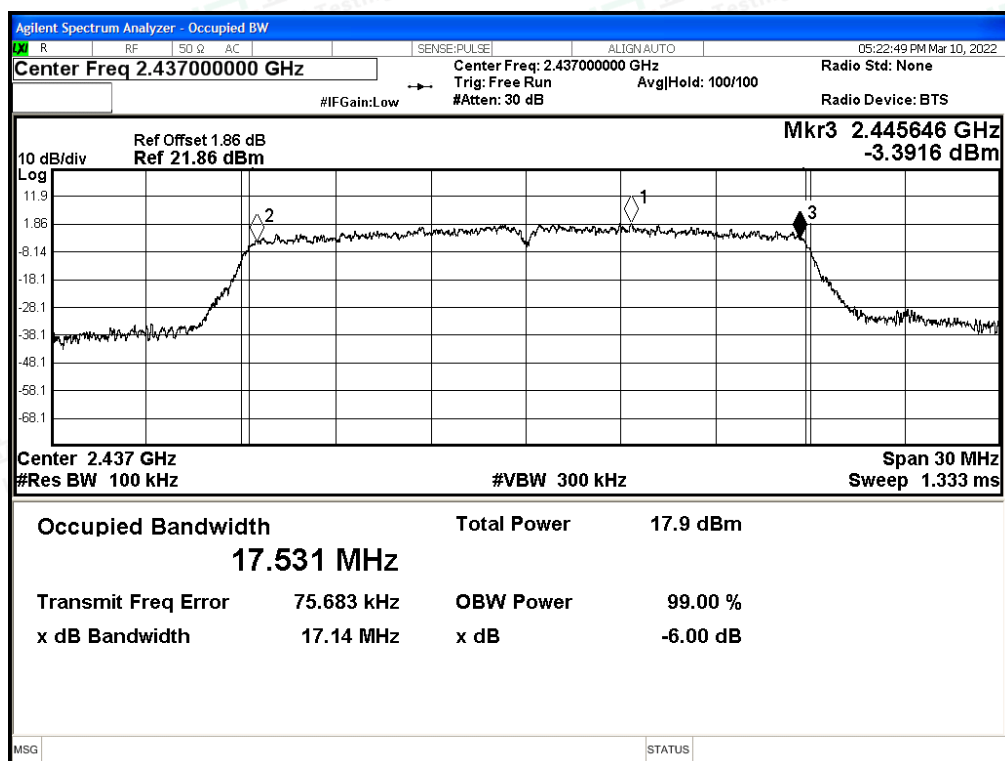
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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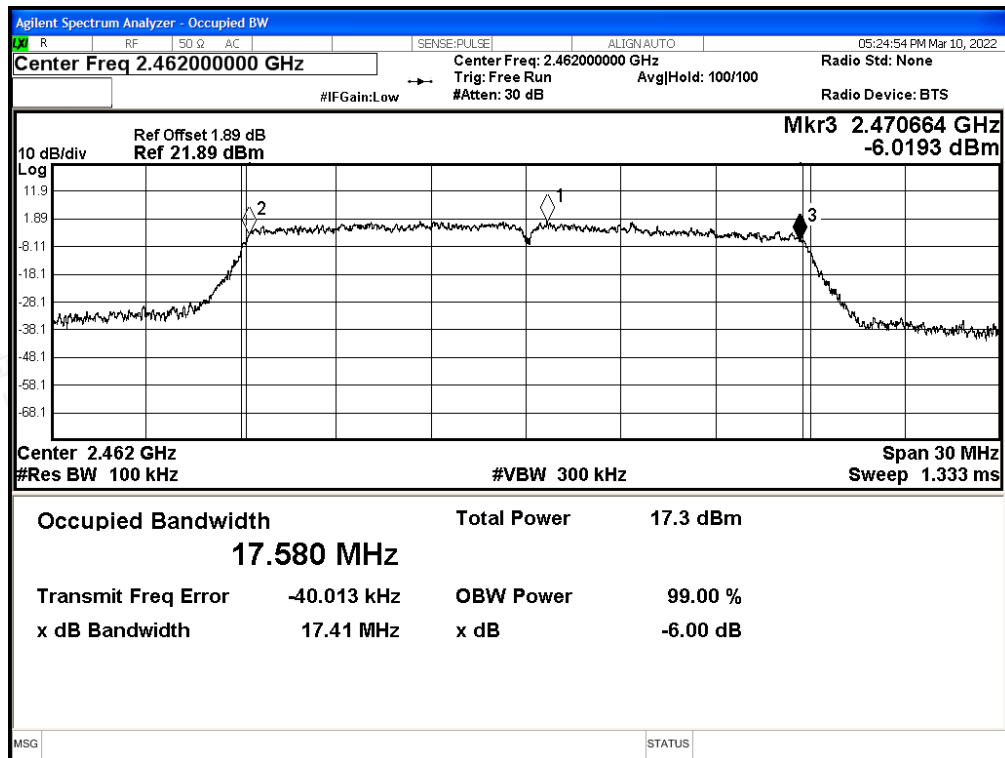
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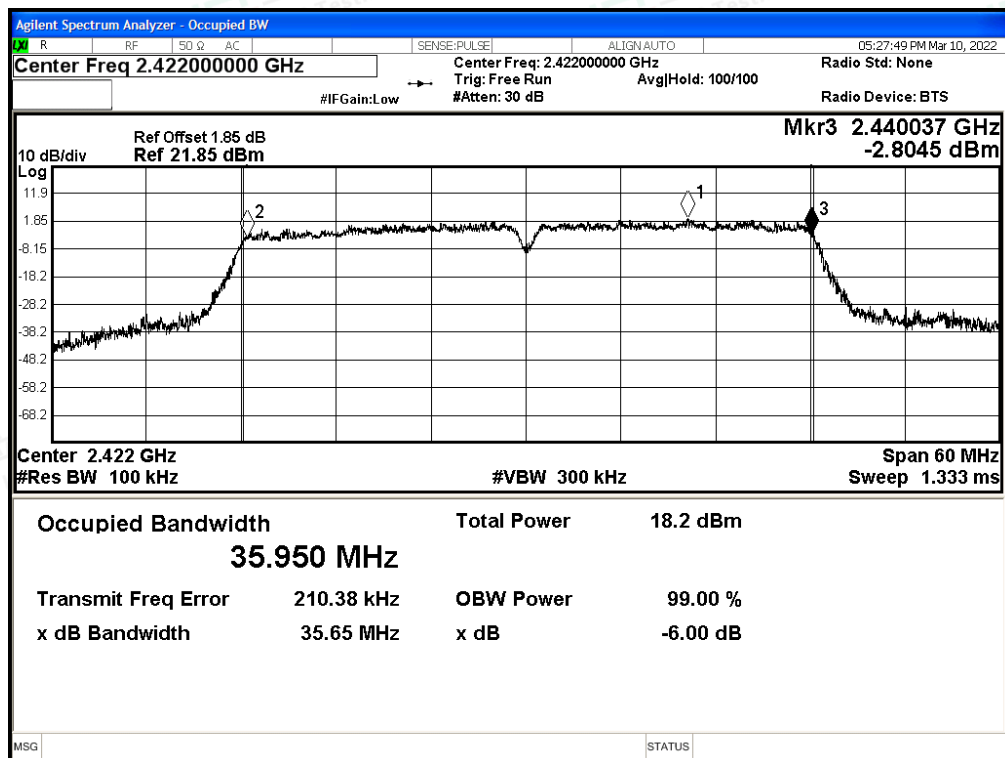
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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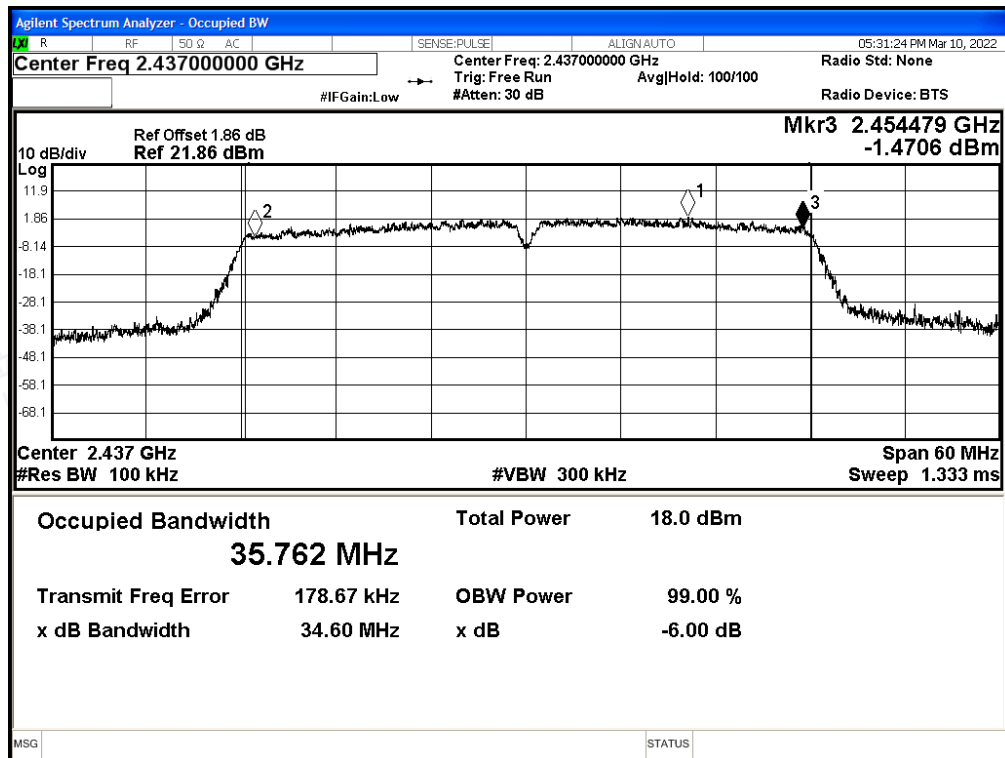
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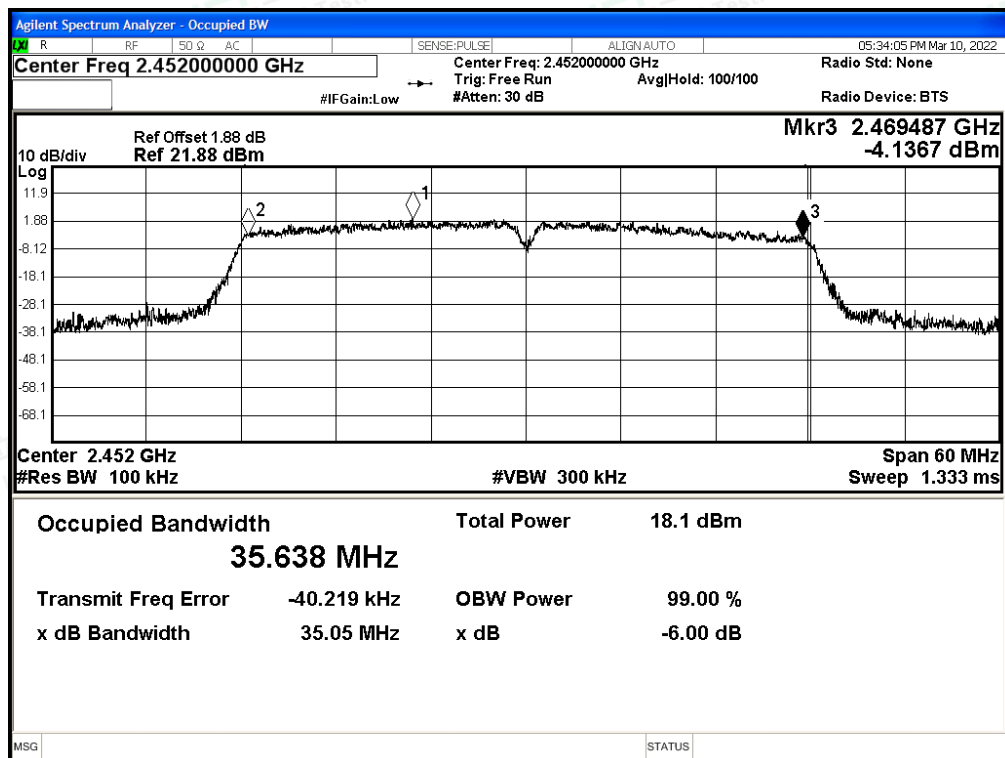
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	16.6	30	Pass
NVNT	b	2437	17.23	30	Pass
NVNT	b	2462	16.7	30	Pass
NVNT	g	2412	17.72	30	Pass
NVNT	g	2437	17.31	30	Pass
NVNT	g	2462	16.47	30	Pass
NVNT	n20	2412	17.15	30	Pass
NVNT	n20	2437	17.32	30	Pass
NVNT	n20	2462	16.68	30	Pass
NVNT	n40	2422	17.19	30	Pass
NVNT	n40	2437	16.96	30	Pass
NVNT	n40	2452	17	30	Pass



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-13.49	8	Pass
NVNT	b	2437	-12.8	8	Pass
NVNT	b	2462	-13.4	8	Pass
NVNT	g	2412	-13.81	8	Pass
NVNT	g	2437	-14.14	8	Pass
NVNT	g	2462	-14.89	8	Pass
NVNT	n20	2412	-14.92	8	Pass
NVNT	n20	2437	-14.53	8	Pass
NVNT	n20	2462	-14.74	8	Pass
NVNT	n40	2422	-15.5	8	Pass
NVNT	n40	2437	-15.47	8	Pass
NVNT	n40	2452	-16.27	8	Pass



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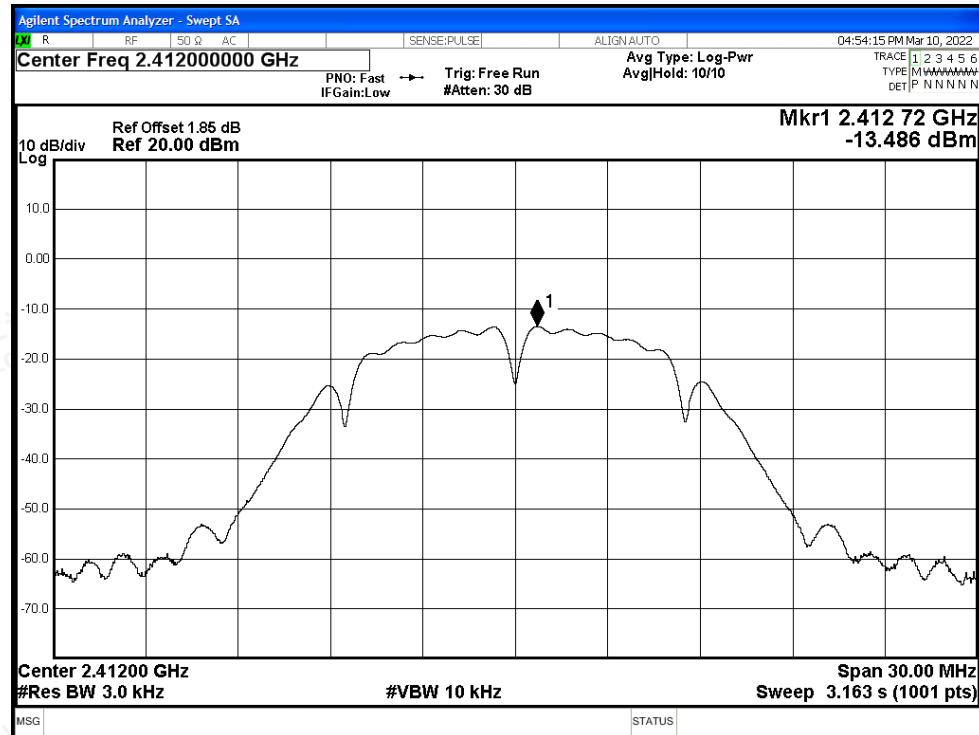
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Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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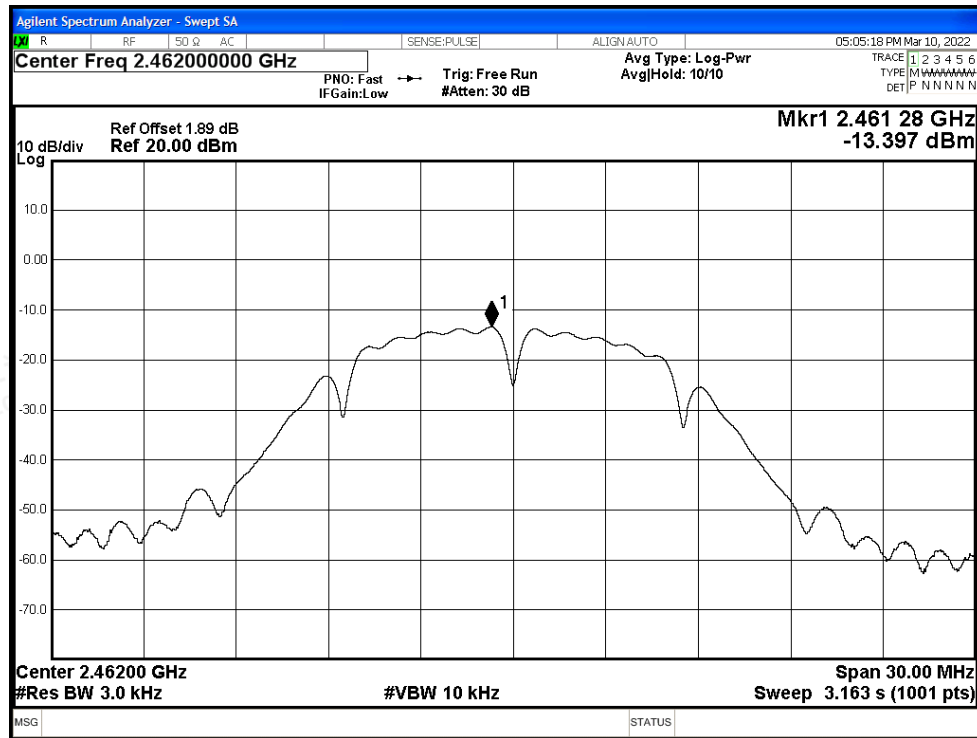
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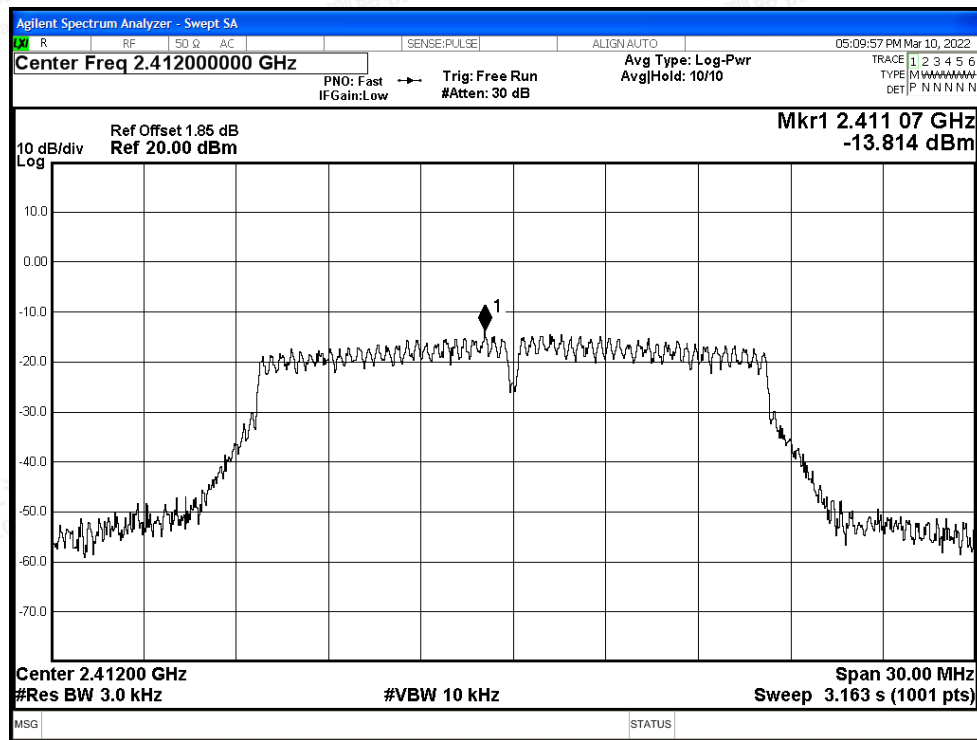
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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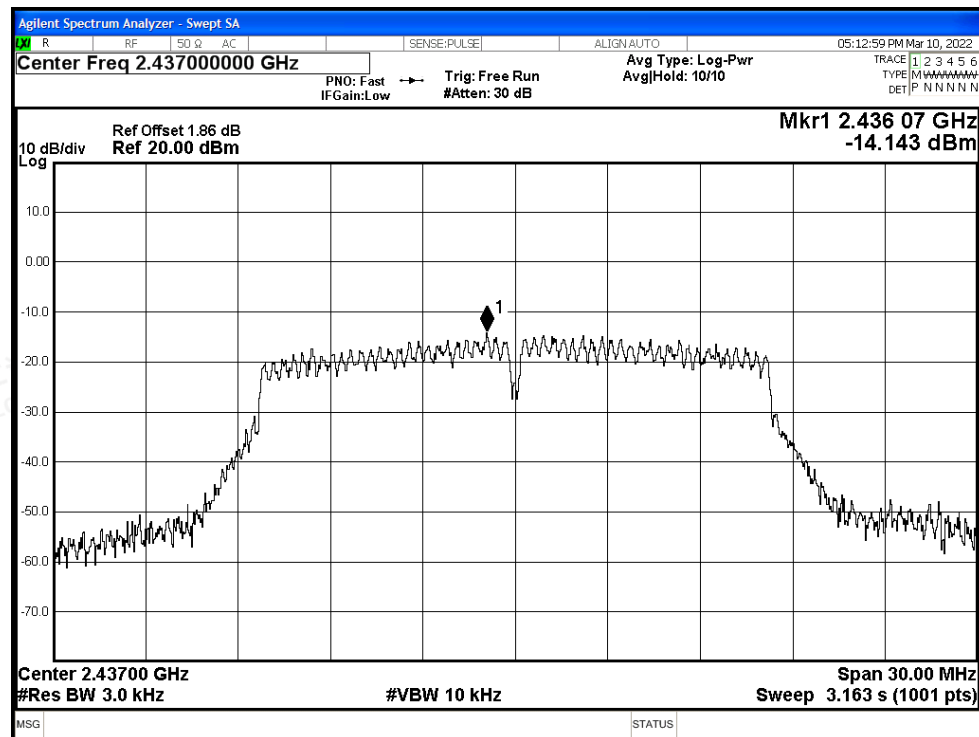
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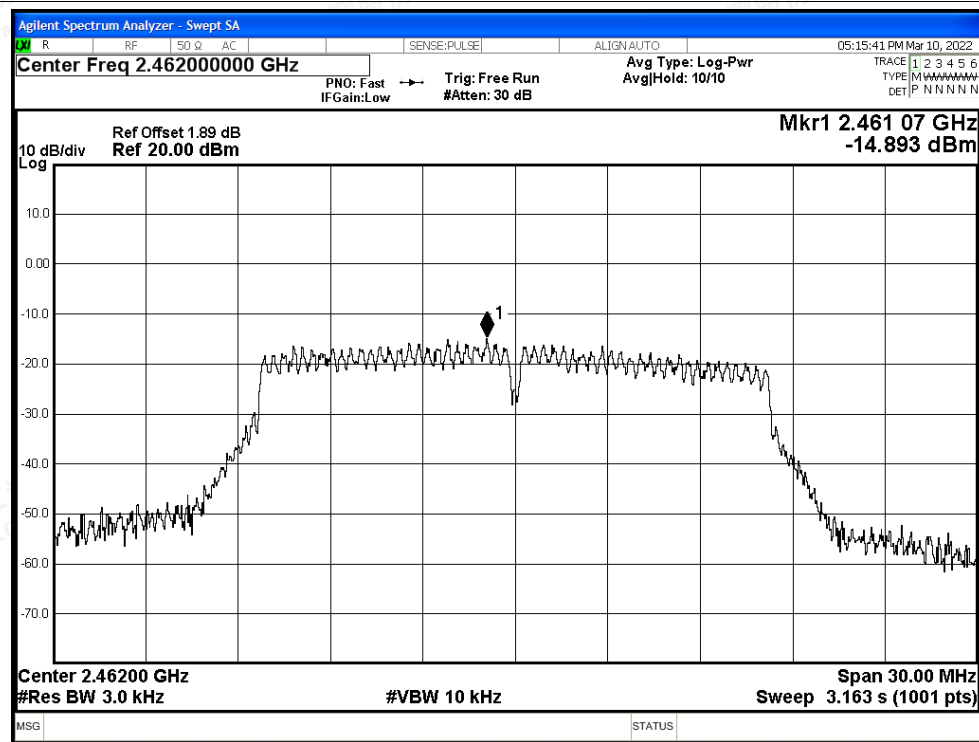
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

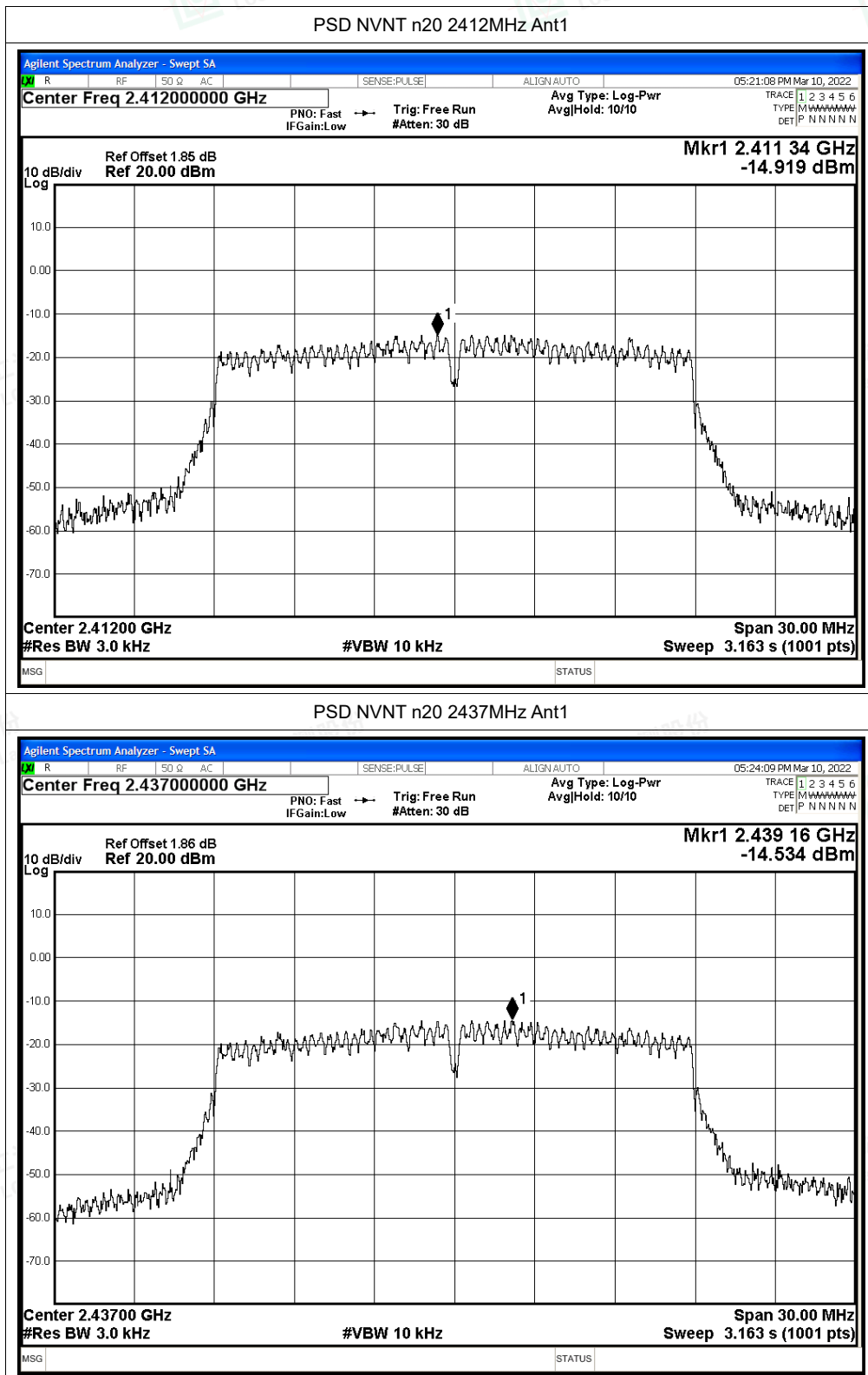


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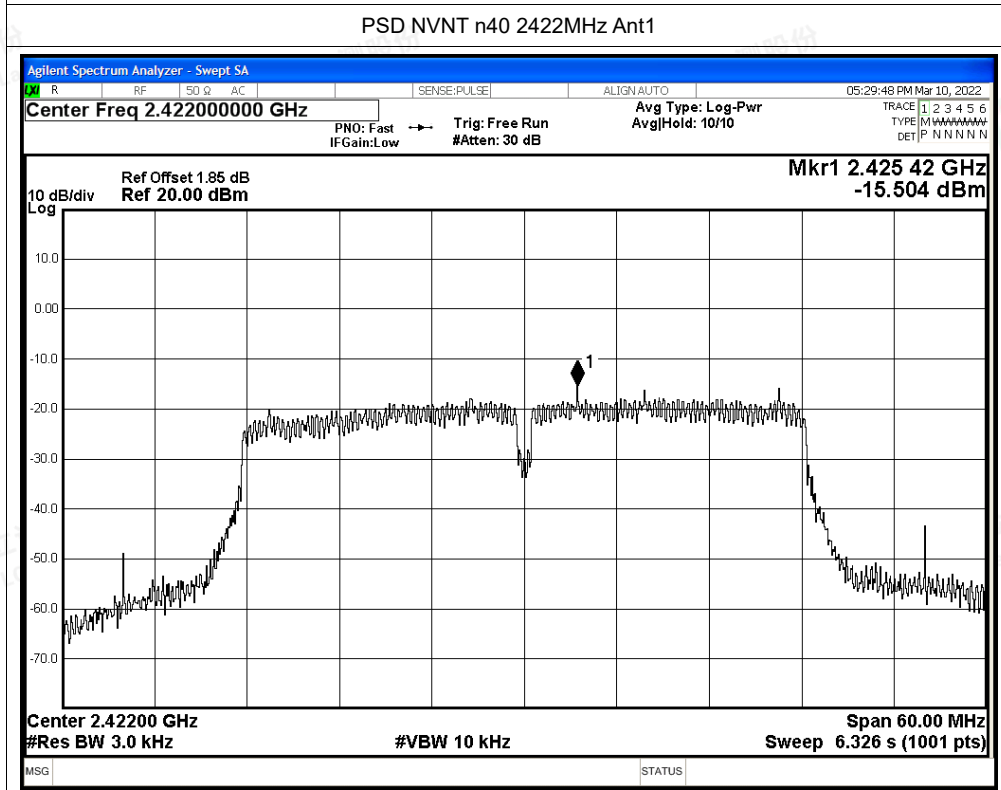
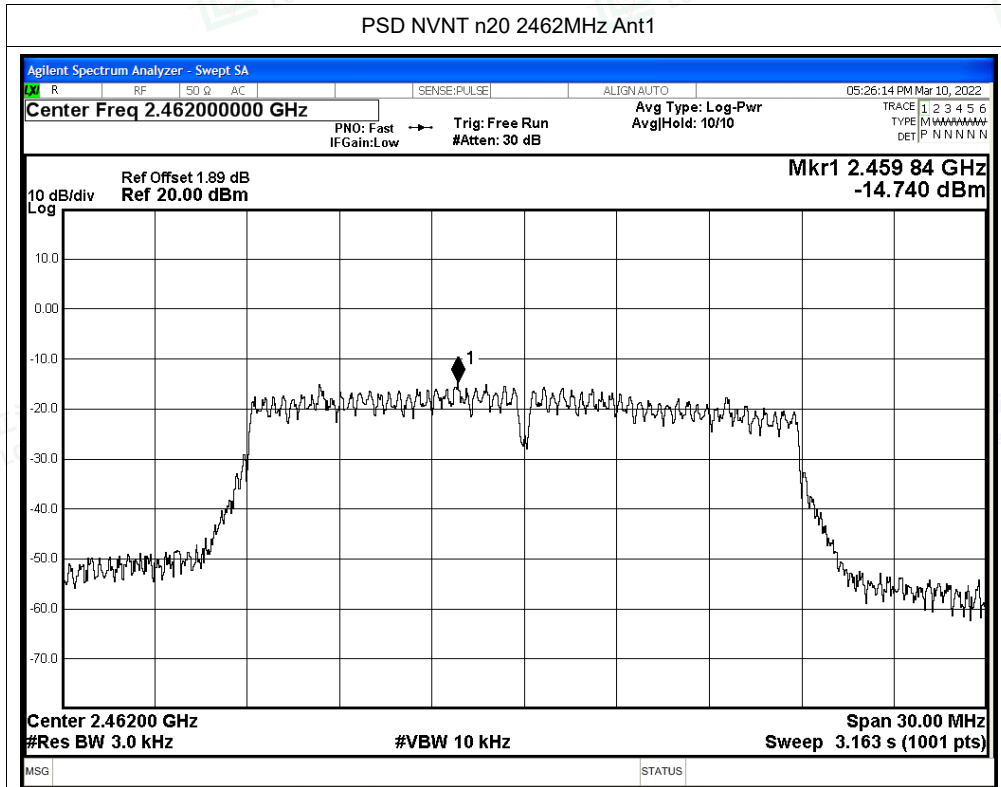


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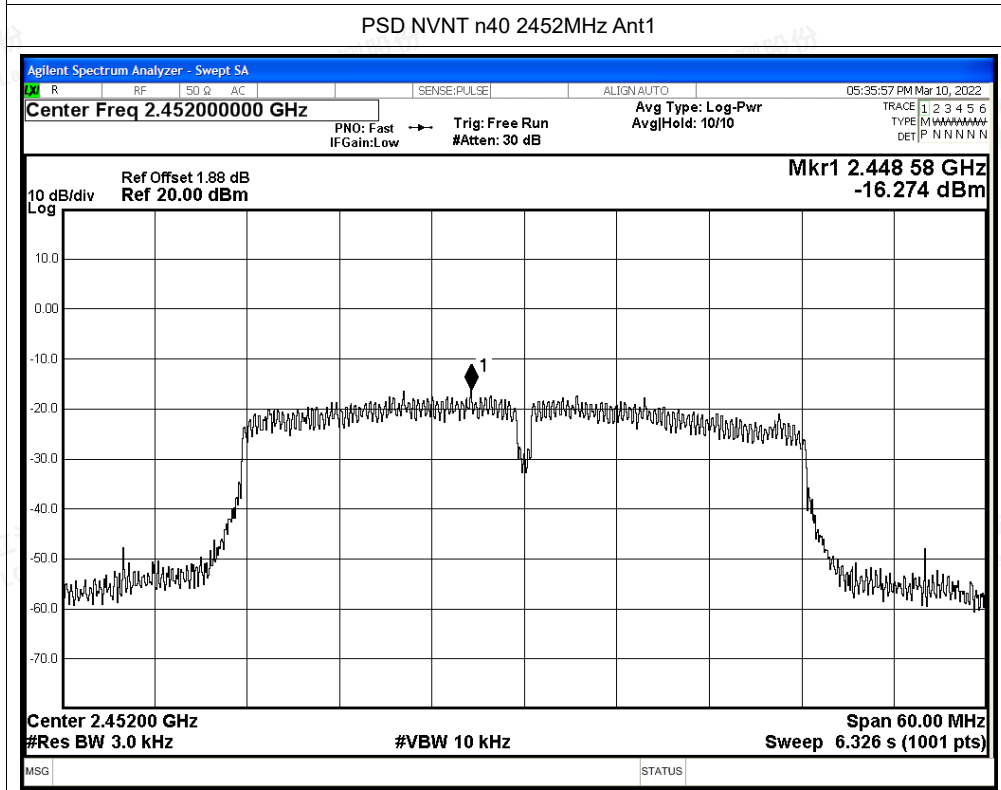
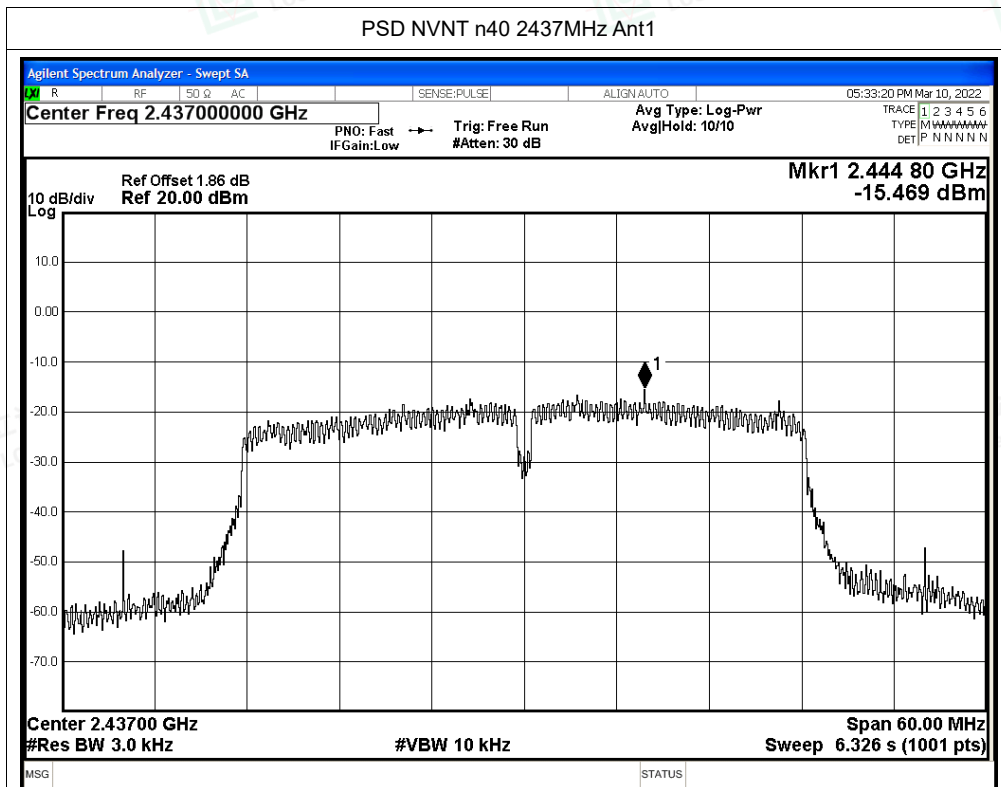


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.7	-20	Pass
NVNT	b	2462	Ant1	-53.89	-20	Pass
NVNT	g	2412	Ant1	-33.88	-20	Pass
NVNT	g	2462	Ant1	-43.25	-20	Pass
NVNT	n20	2412	Ant1	-34.51	-20	Pass
NVNT	n20	2462	Ant1	-43.76	-20	Pass
NVNT	n40	2422	Ant1	-35.03	-20	Pass
NVNT	n40	2452	Ant1	-36.99	-20	Pass



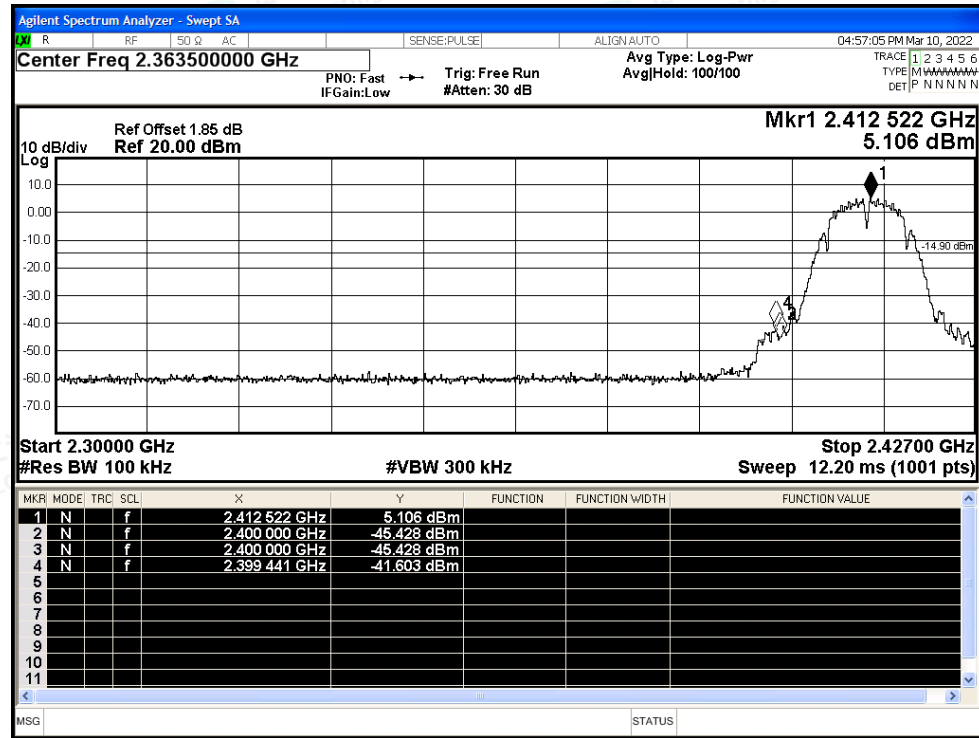


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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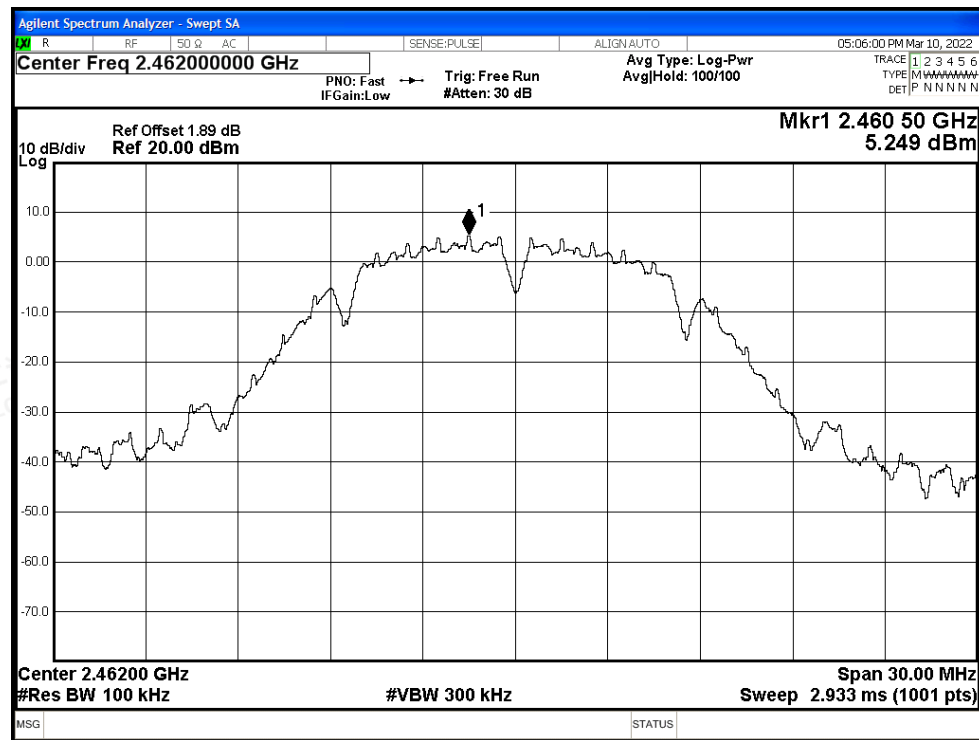
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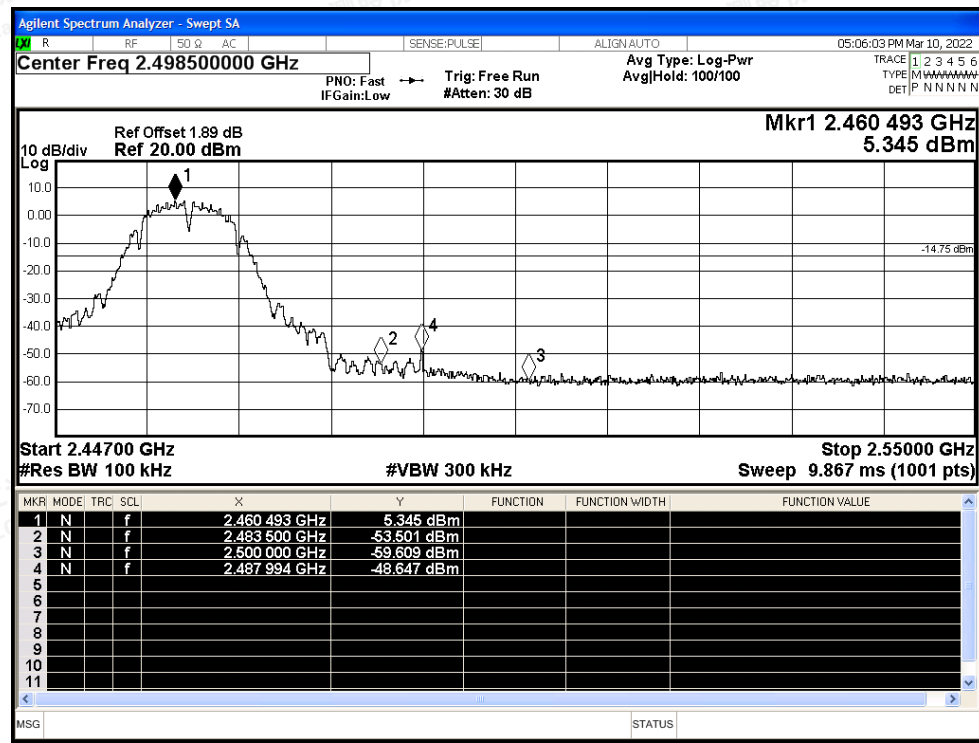
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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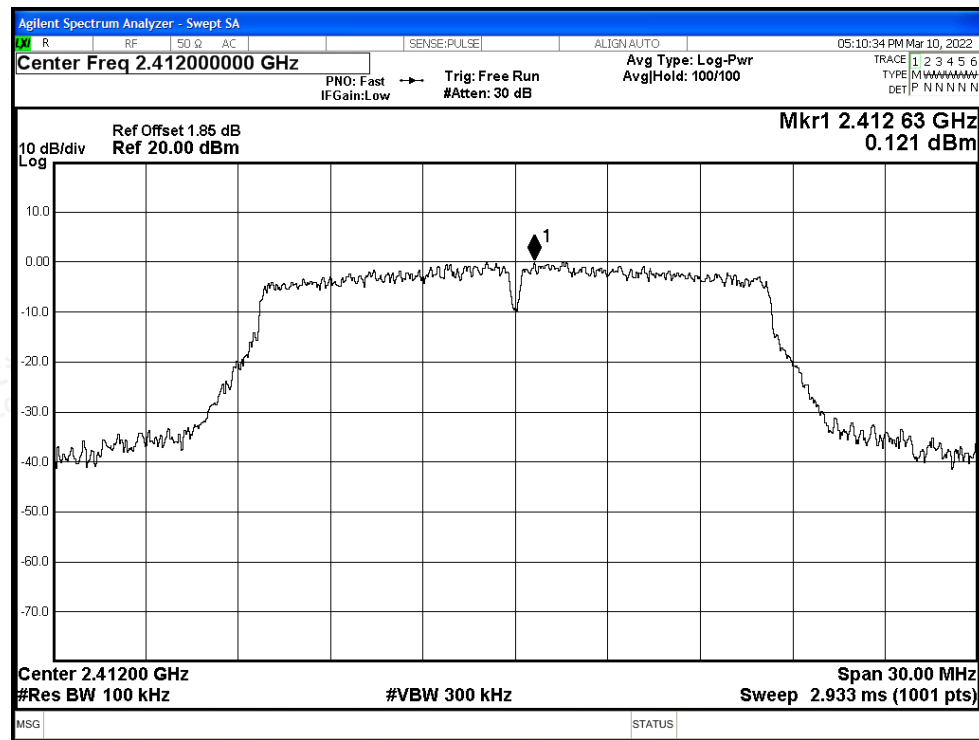
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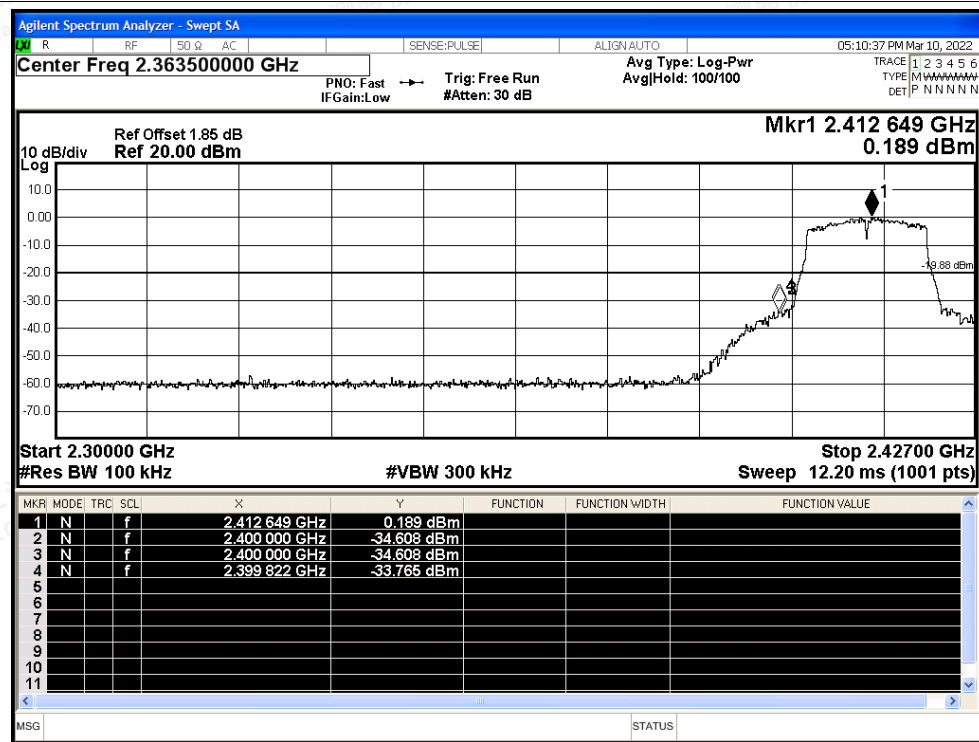
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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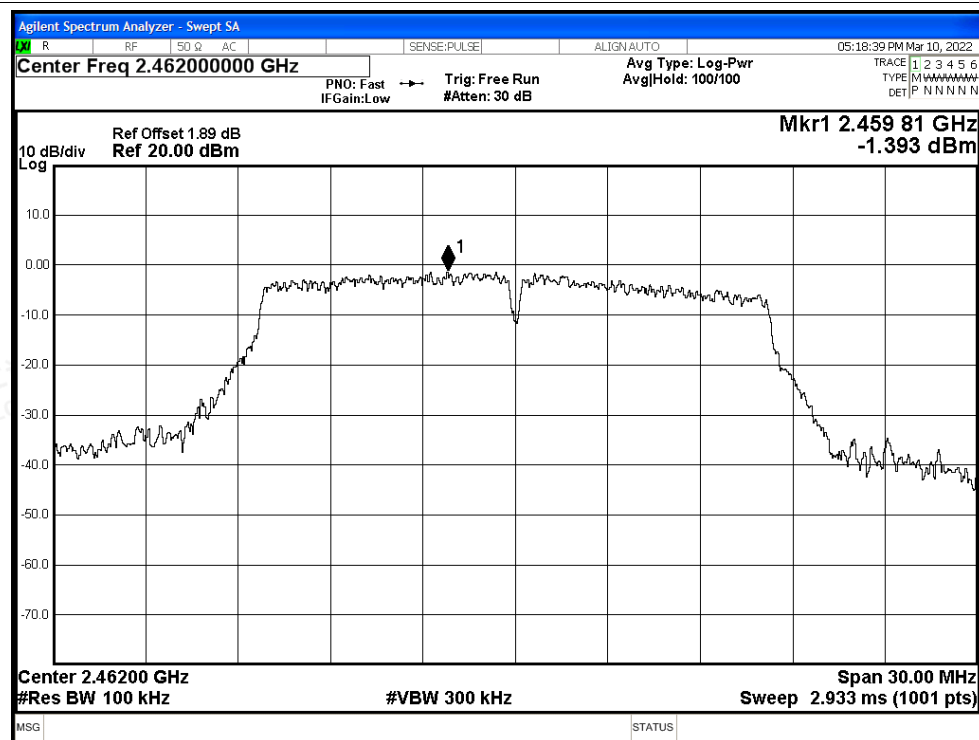
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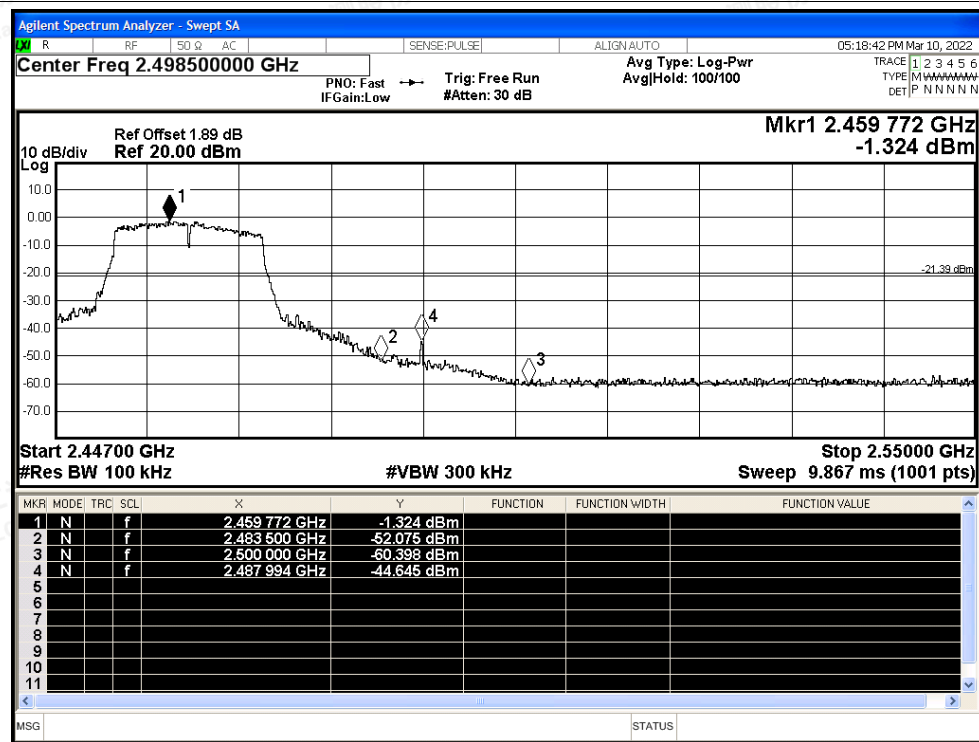
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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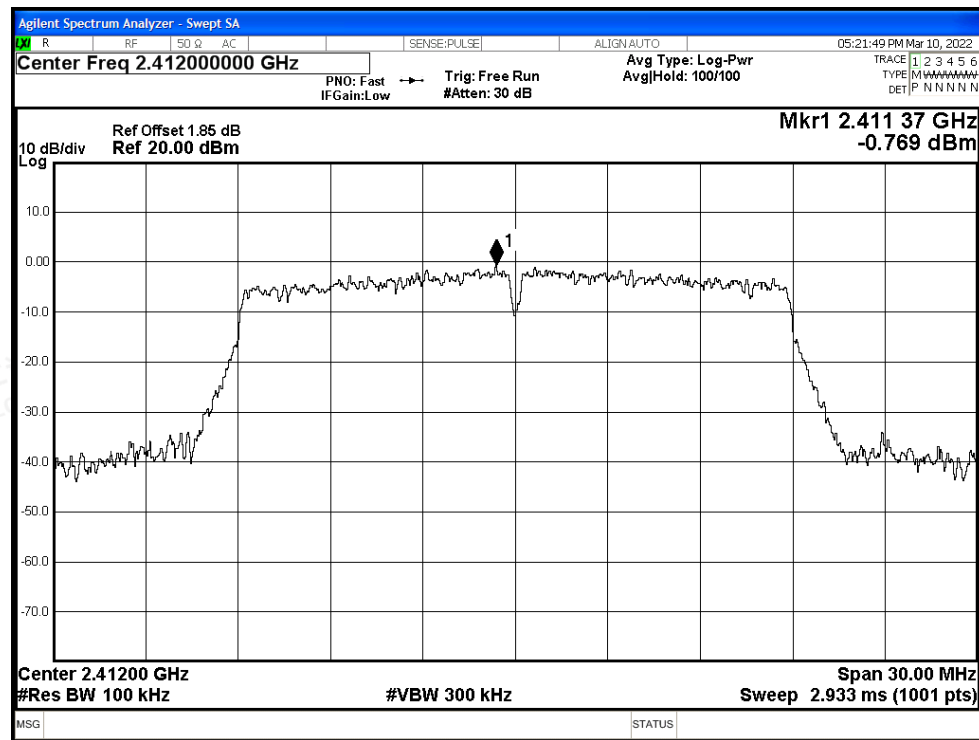
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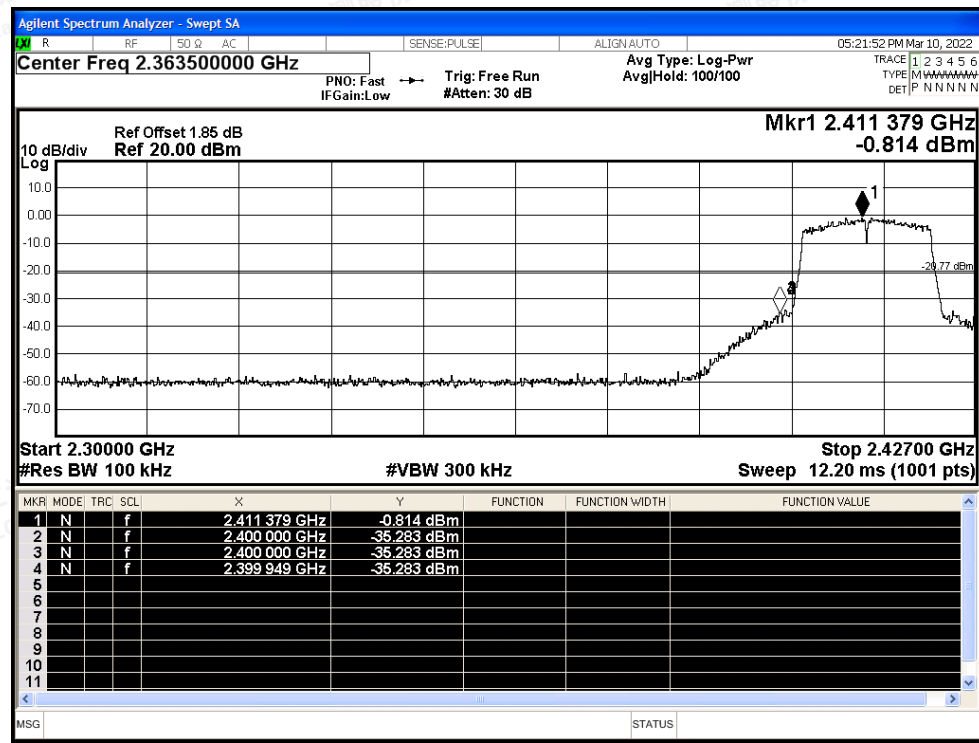
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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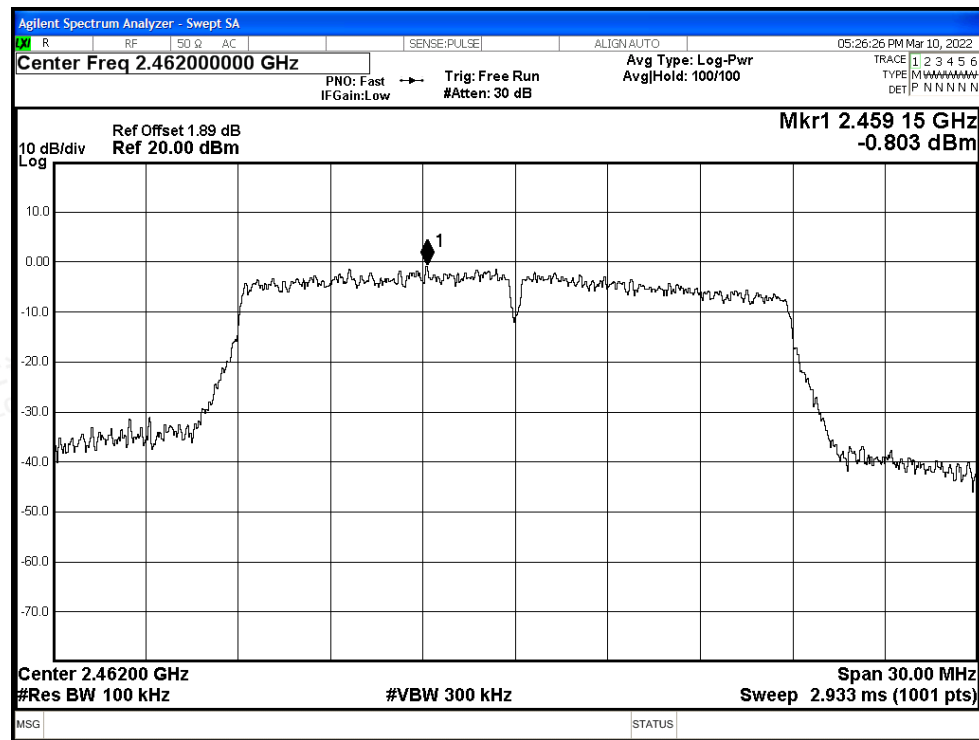
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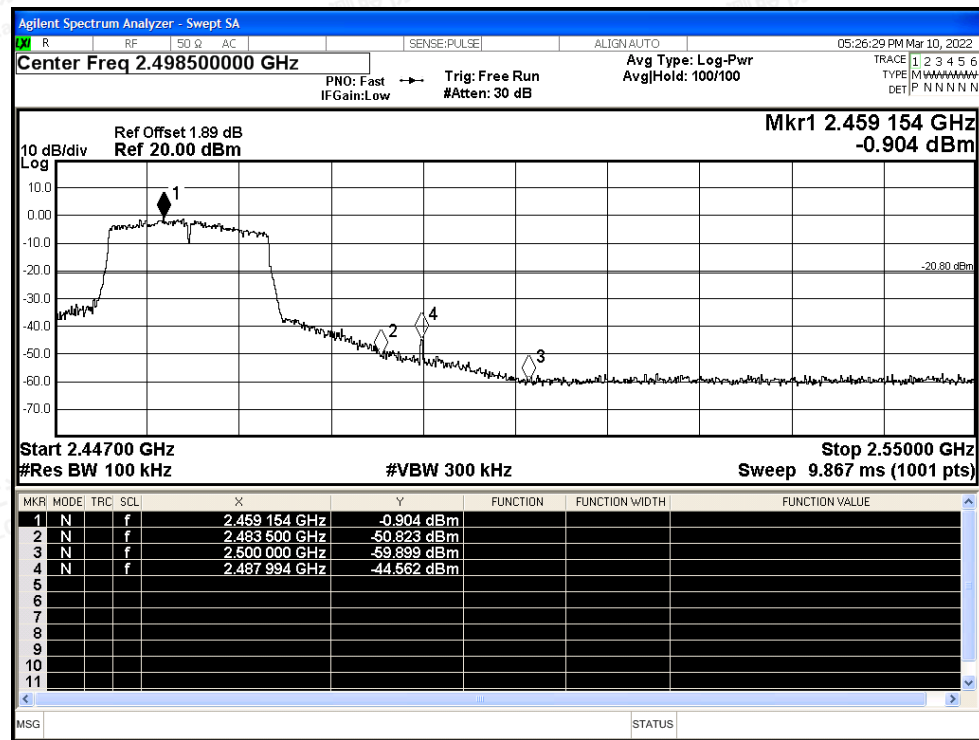
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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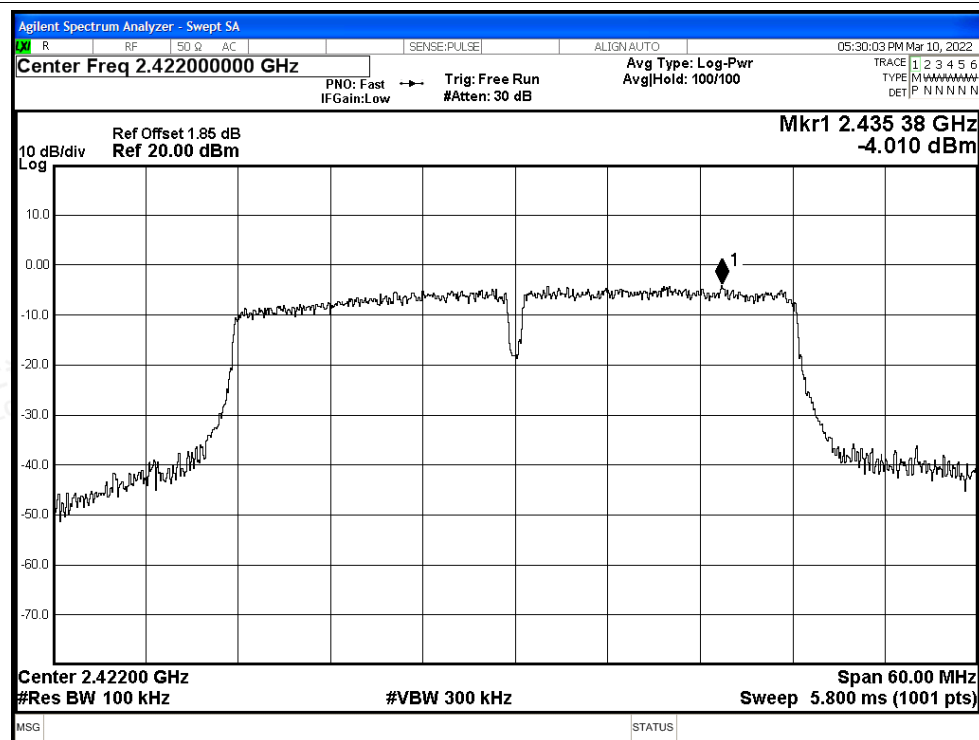
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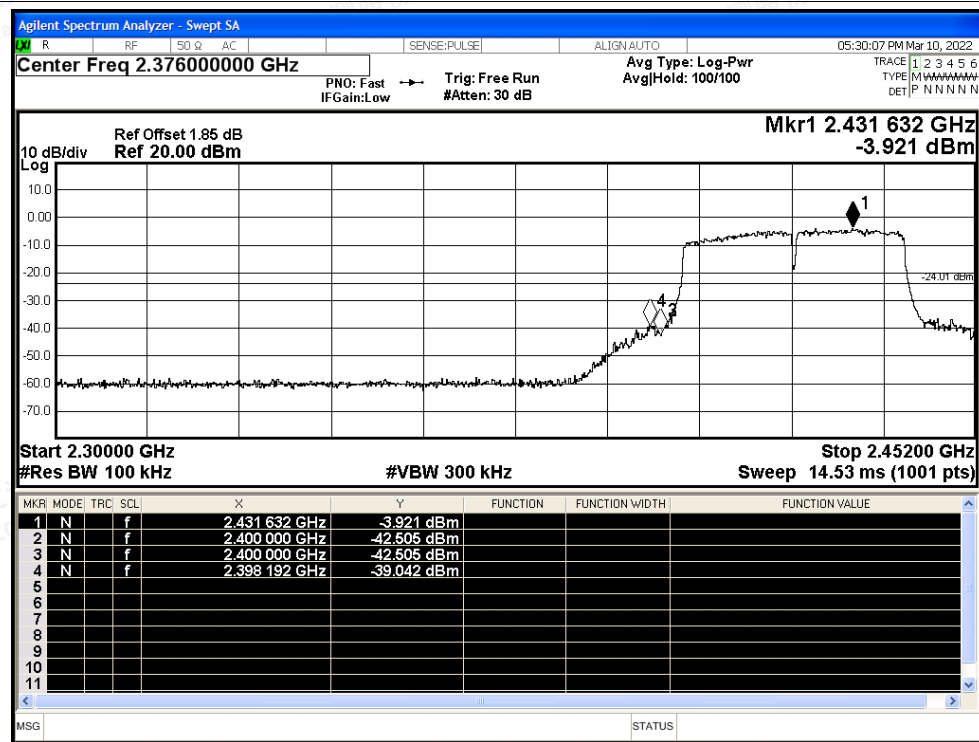
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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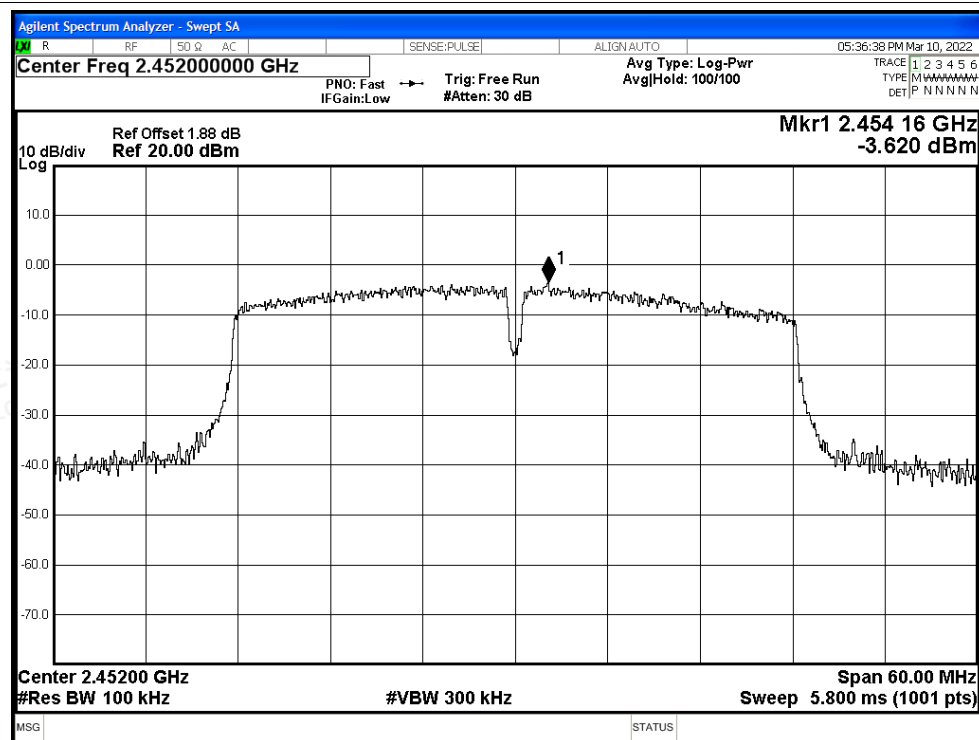
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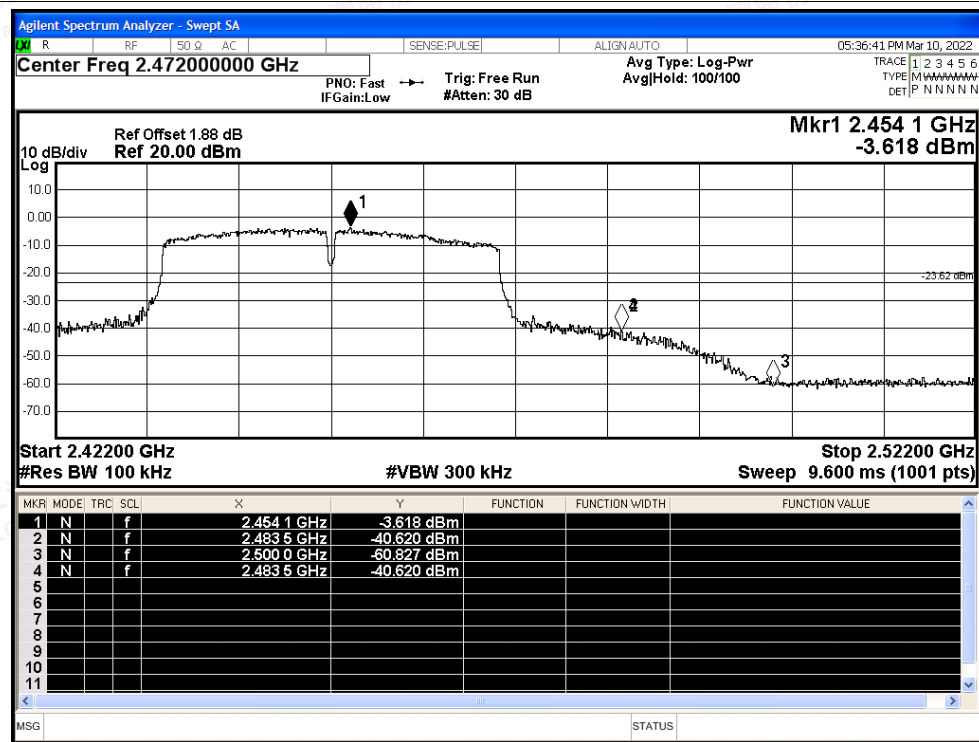
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

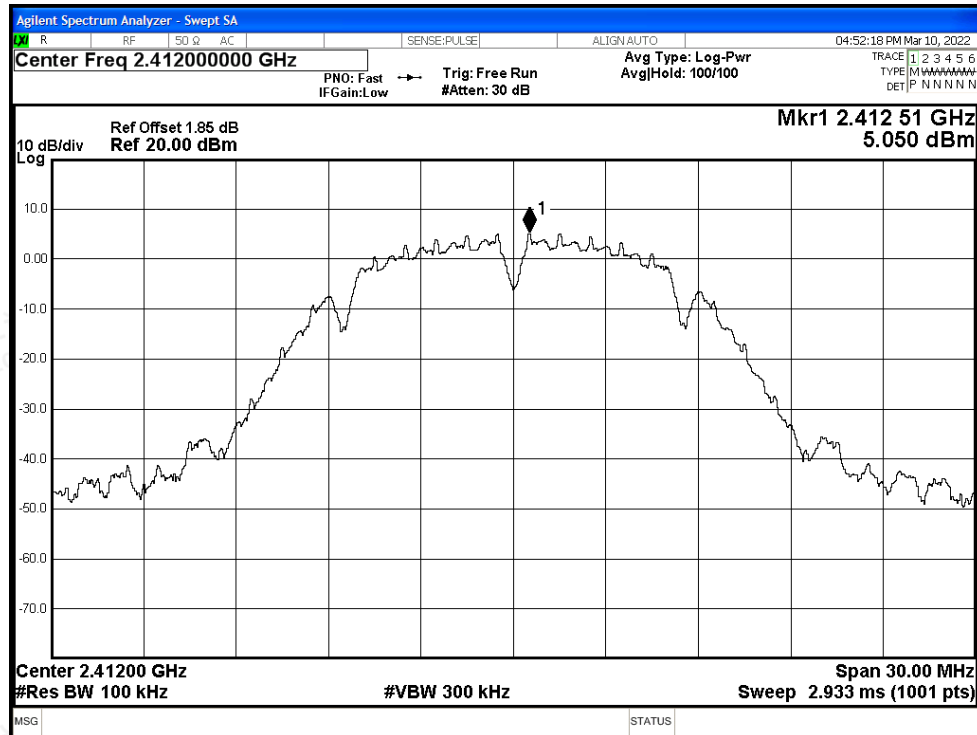
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.04	-20	Pass
NVNT	b	2437	Ant1	-51.43	-20	Pass
NVNT	b	2462	Ant1	-51.22	-20	Pass
NVNT	g	2412	Ant1	-46.65	-20	Pass
NVNT	g	2437	Ant1	-45.76	-20	Pass
NVNT	g	2462	Ant1	-44.35	-20	Pass
NVNT	n20	2412	Ant1	-44.34	-20	Pass
NVNT	n20	2437	Ant1	-45.02	-20	Pass
NVNT	n20	2462	Ant1	-44.34	-20	Pass
NVNT	n40	2422	Ant1	-42.07	-20	Pass
NVNT	n40	2437	Ant1	-41.17	-20	Pass
NVNT	n40	2452	Ant1	-41.56	-20	Pass



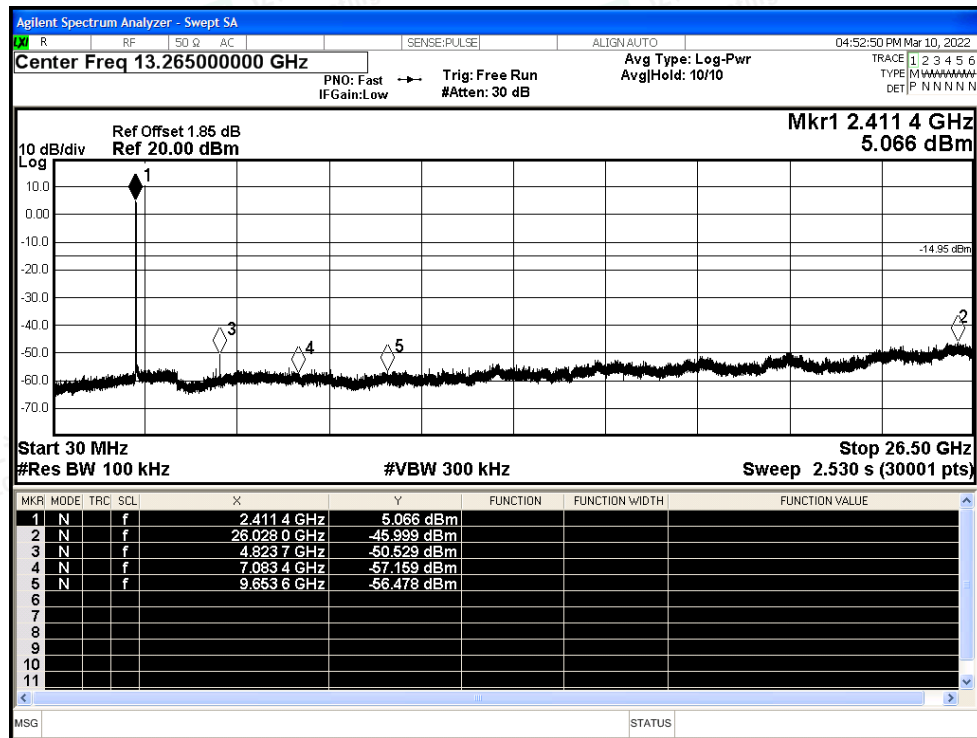


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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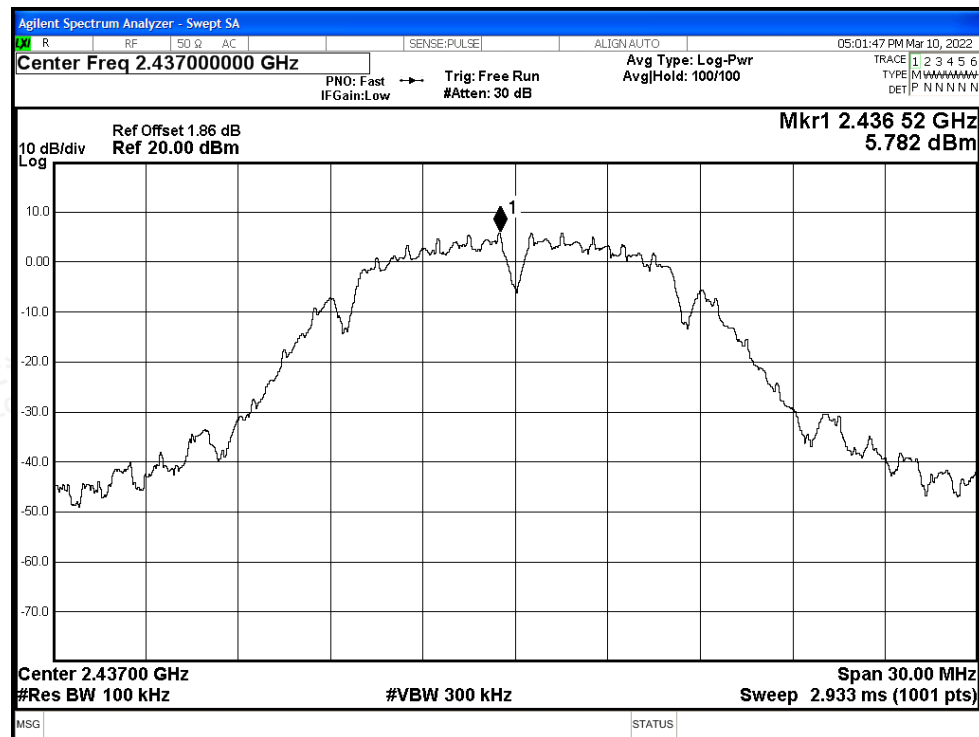
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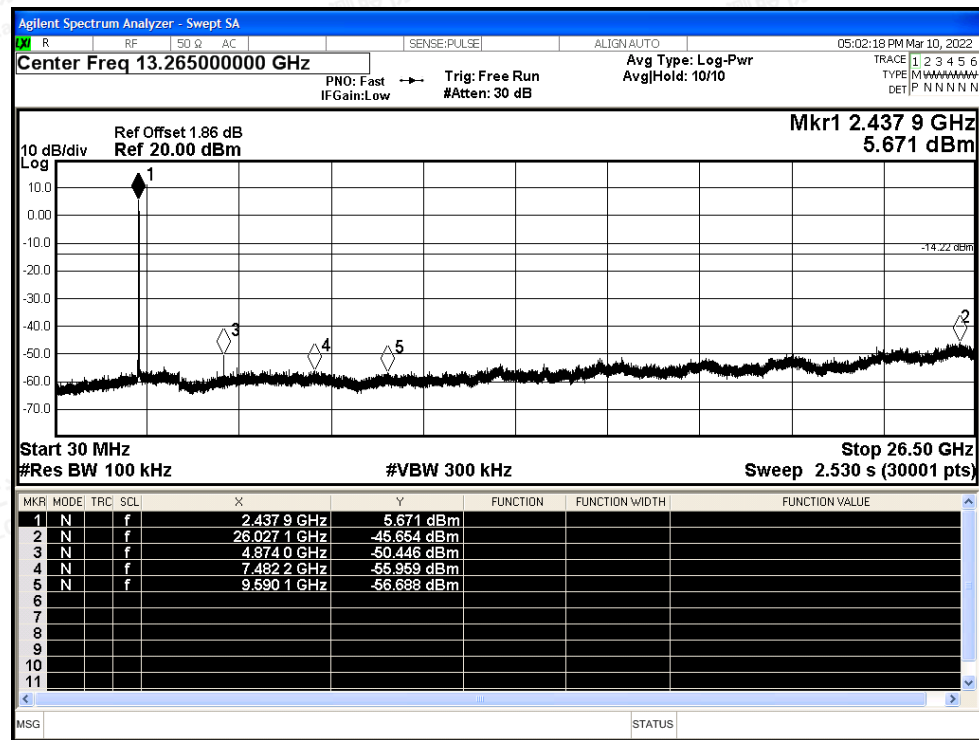
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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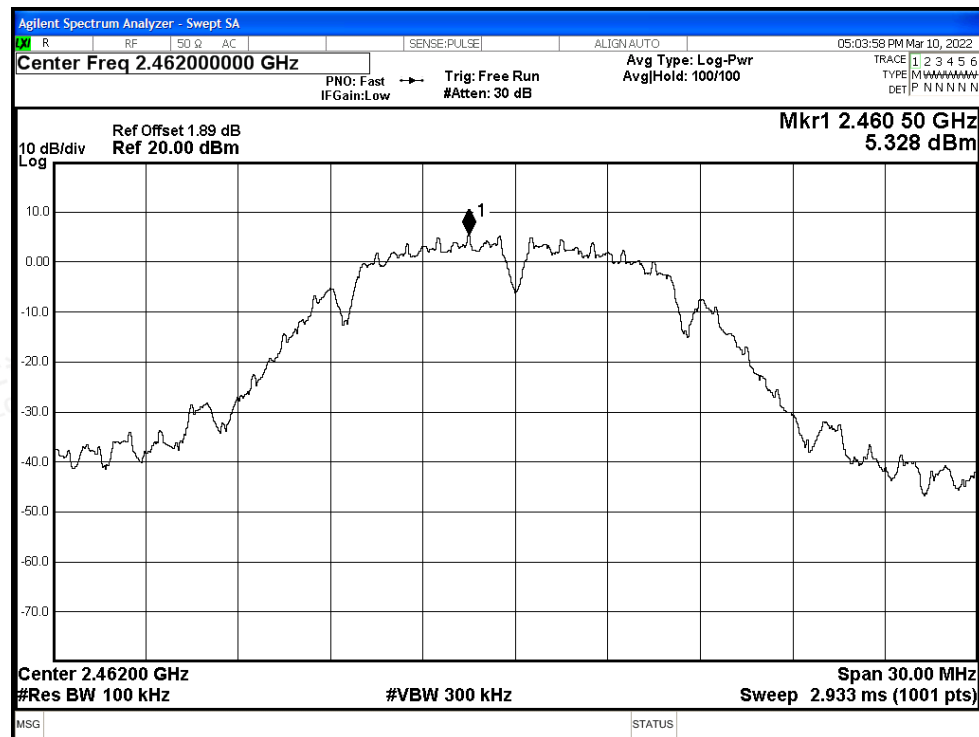
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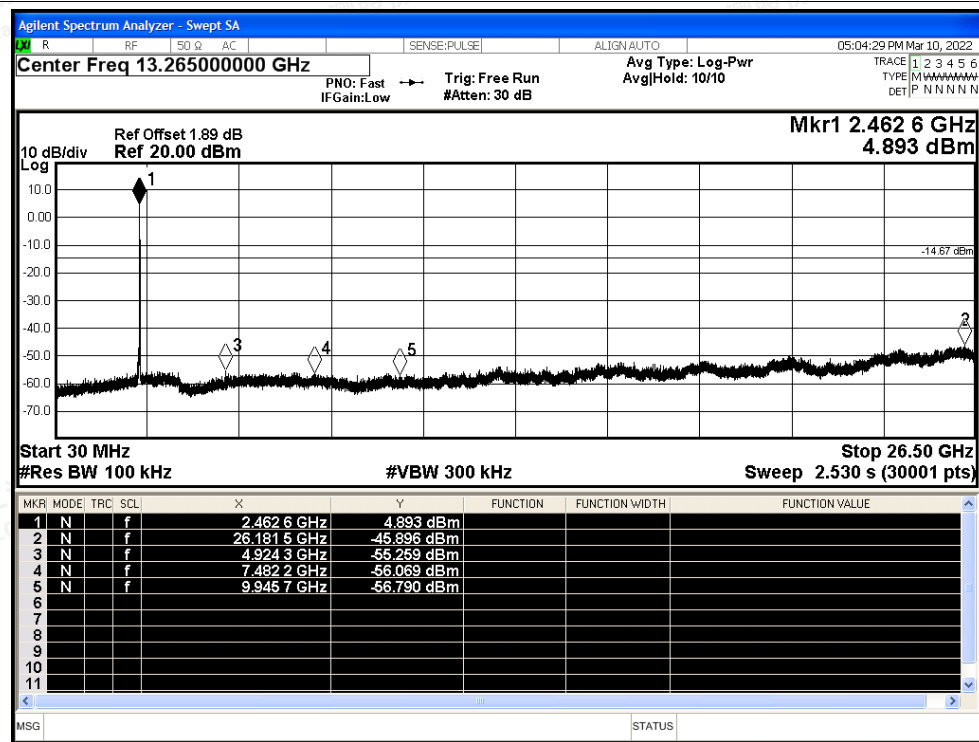
Scan code to check authenticity



Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

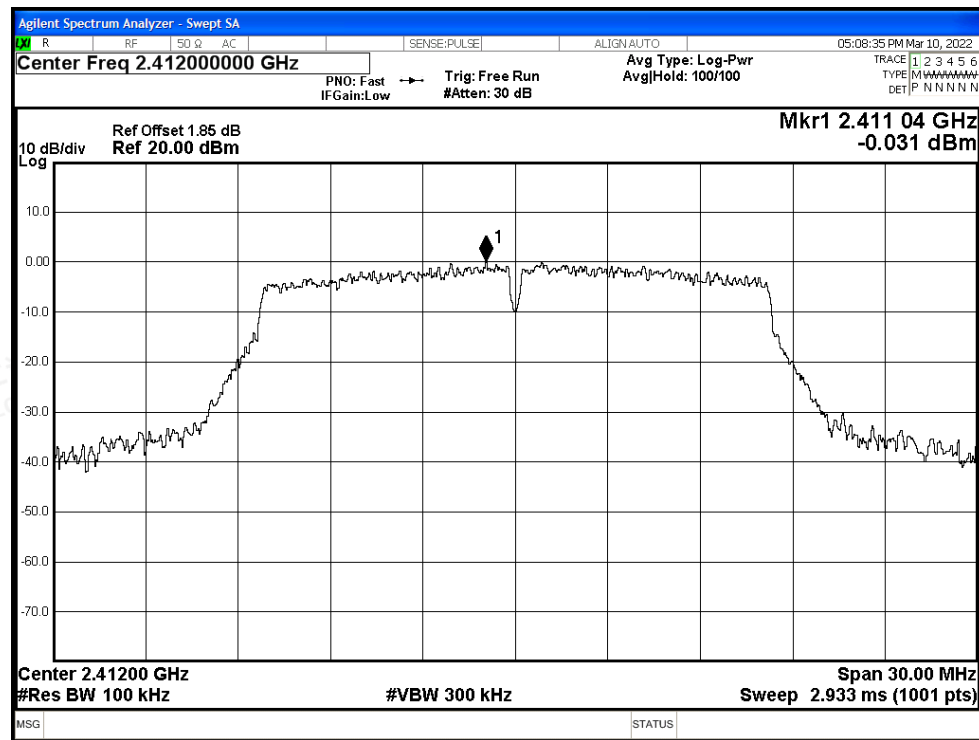
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

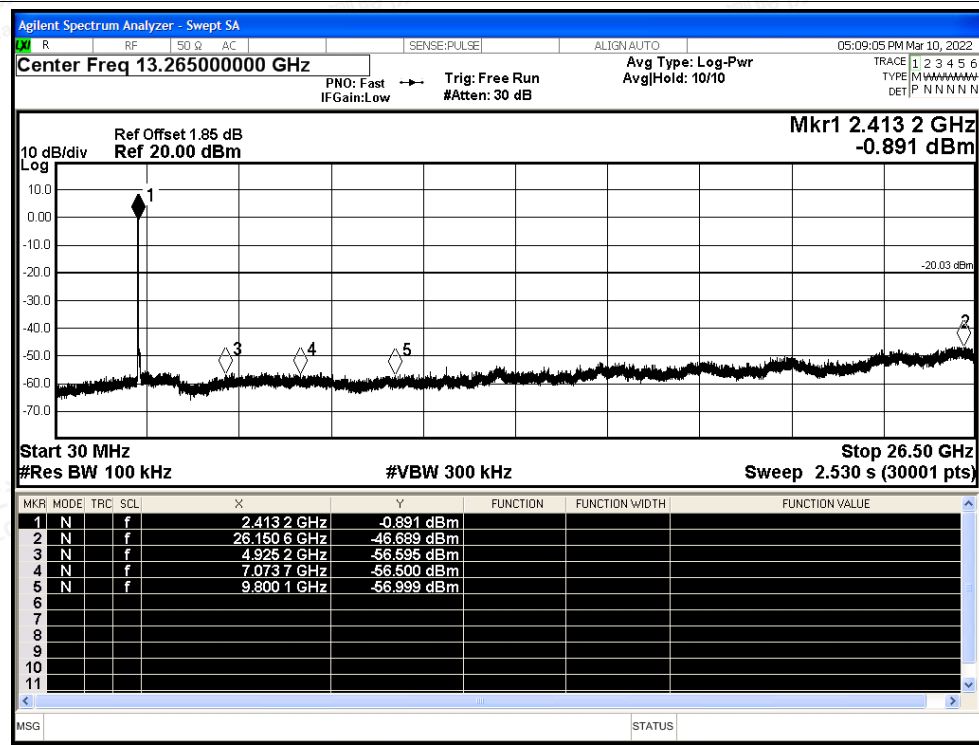
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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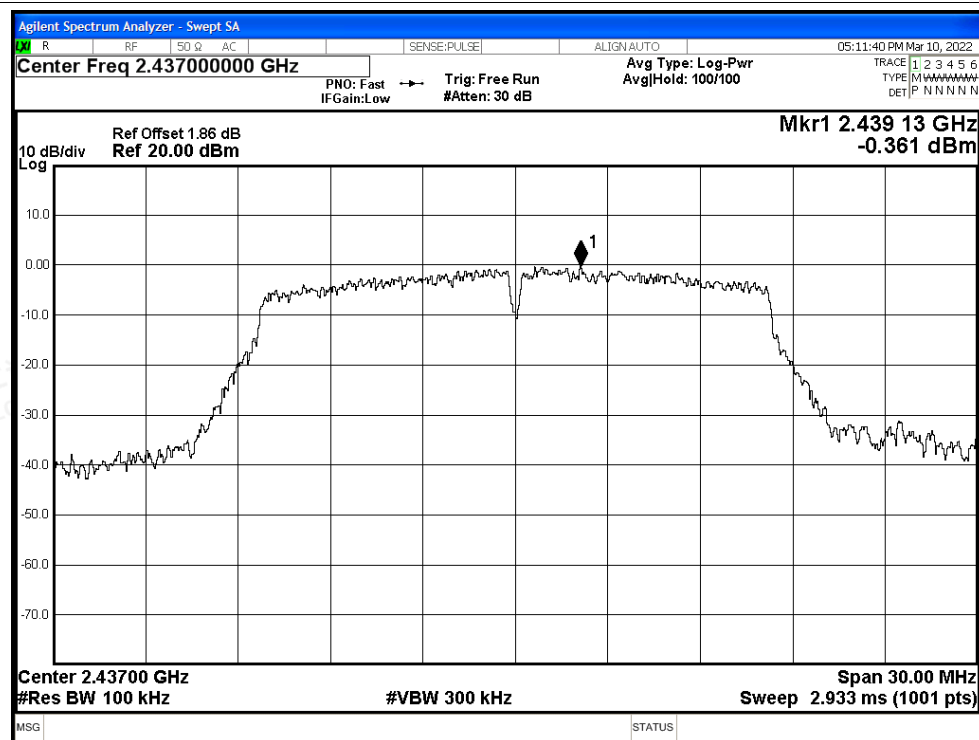
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

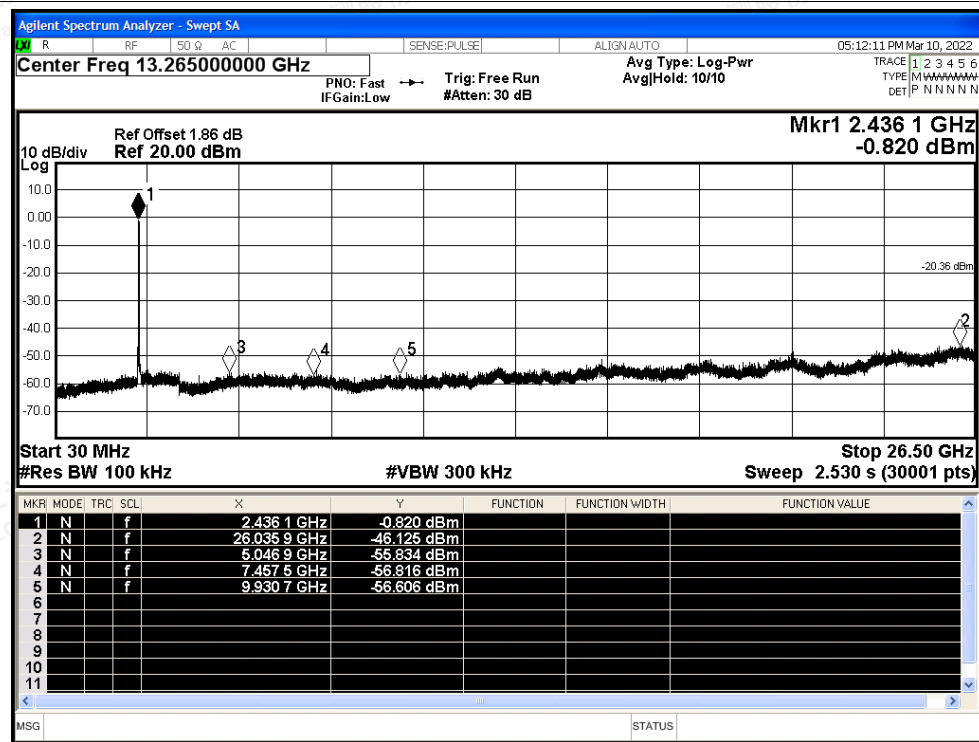
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



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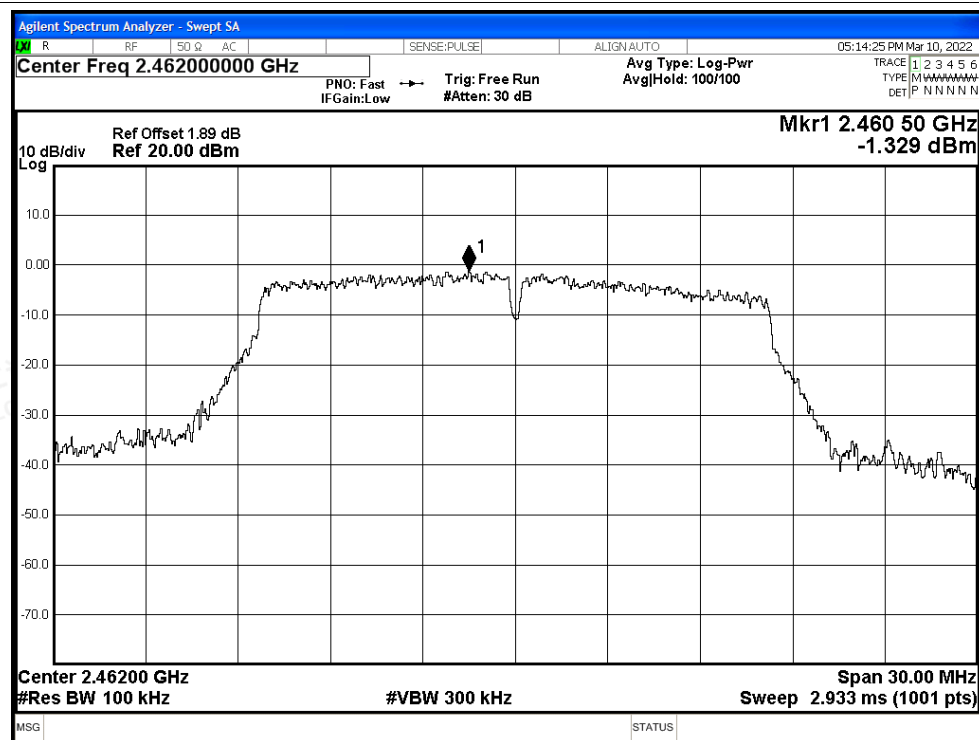
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

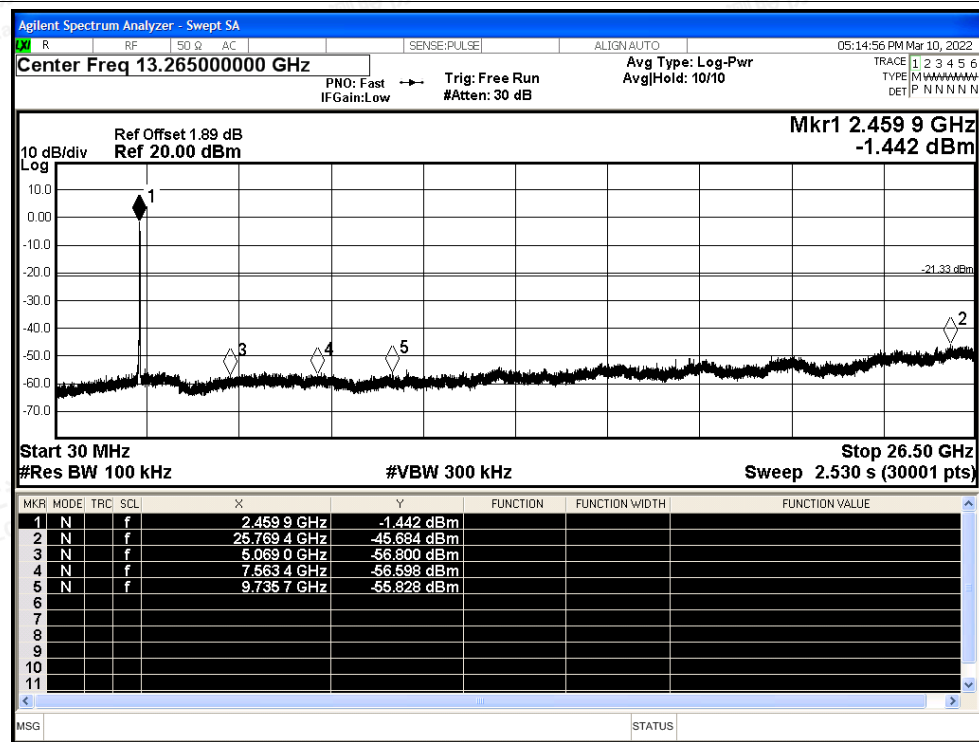
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

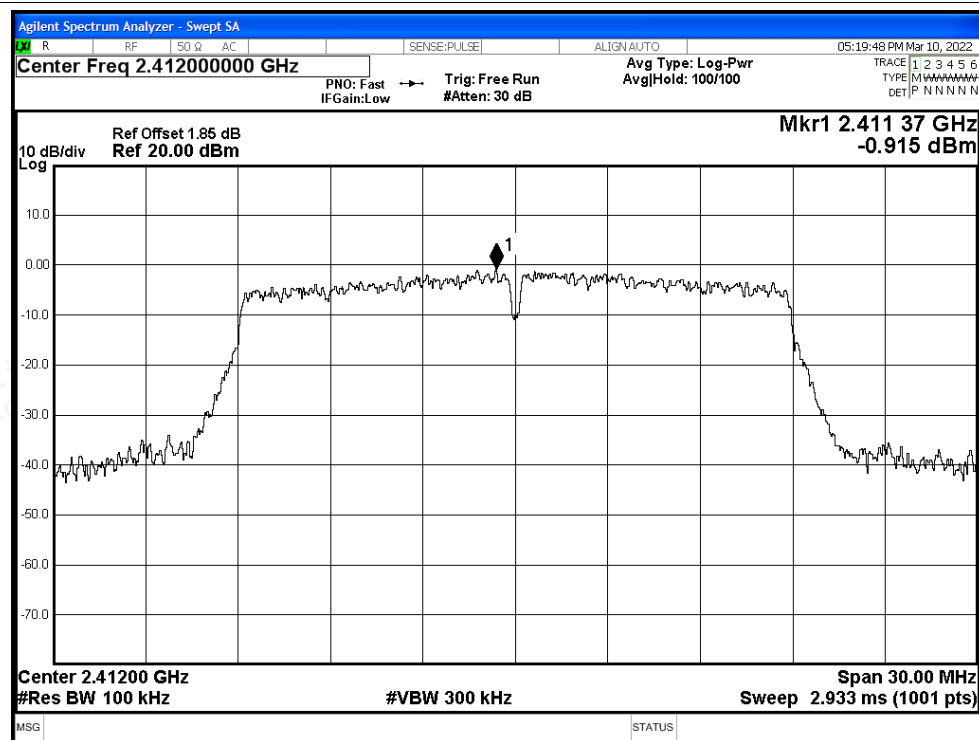
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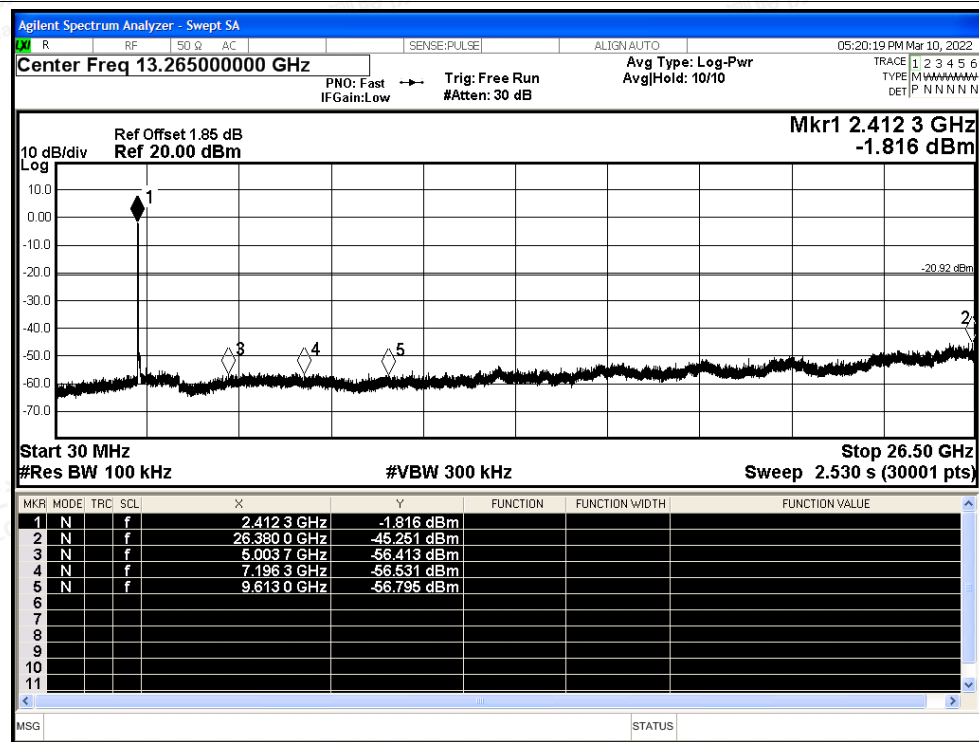
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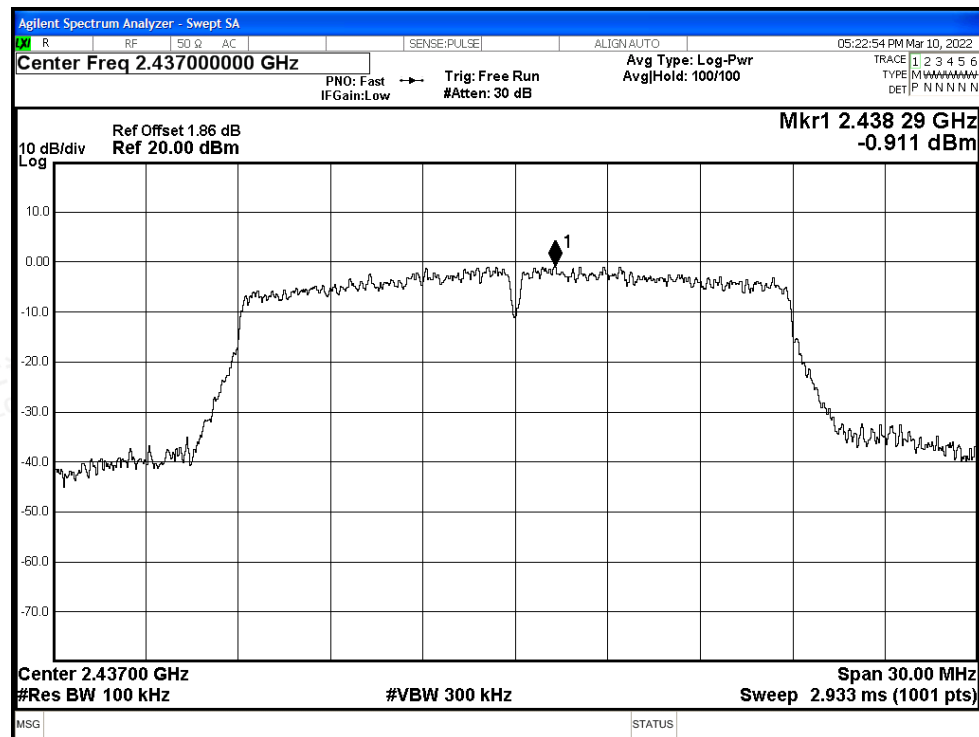
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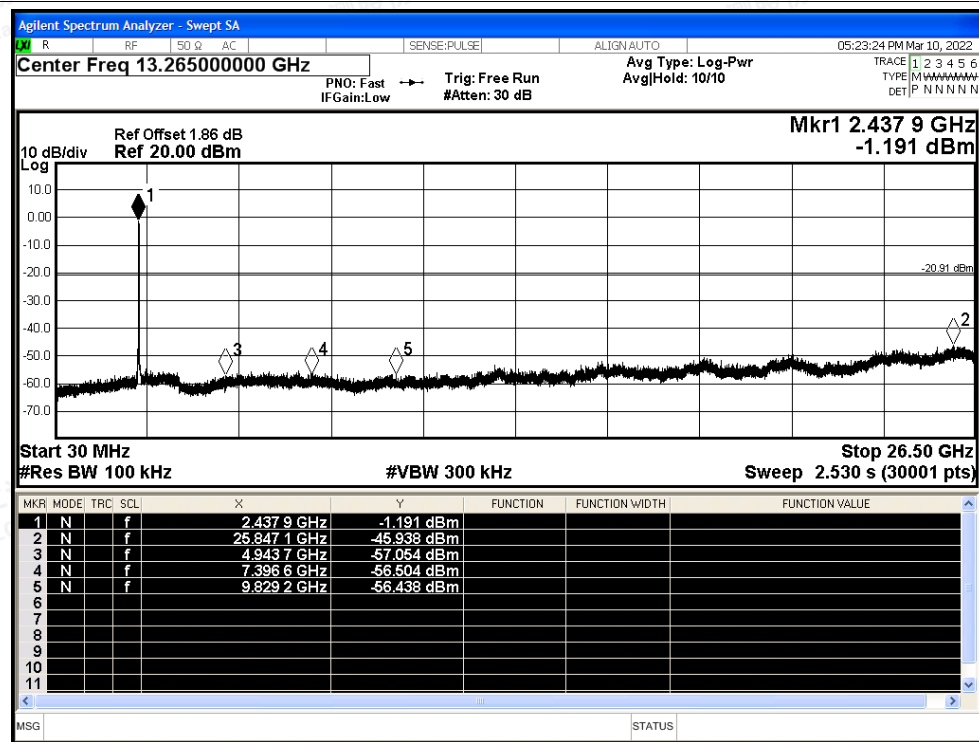
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Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

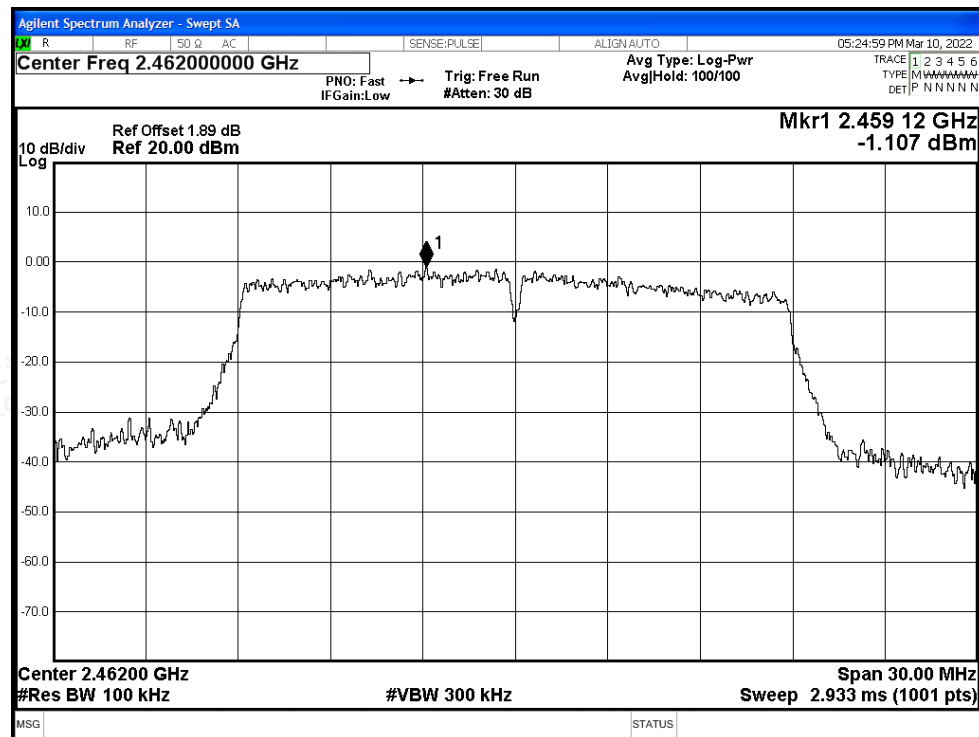
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

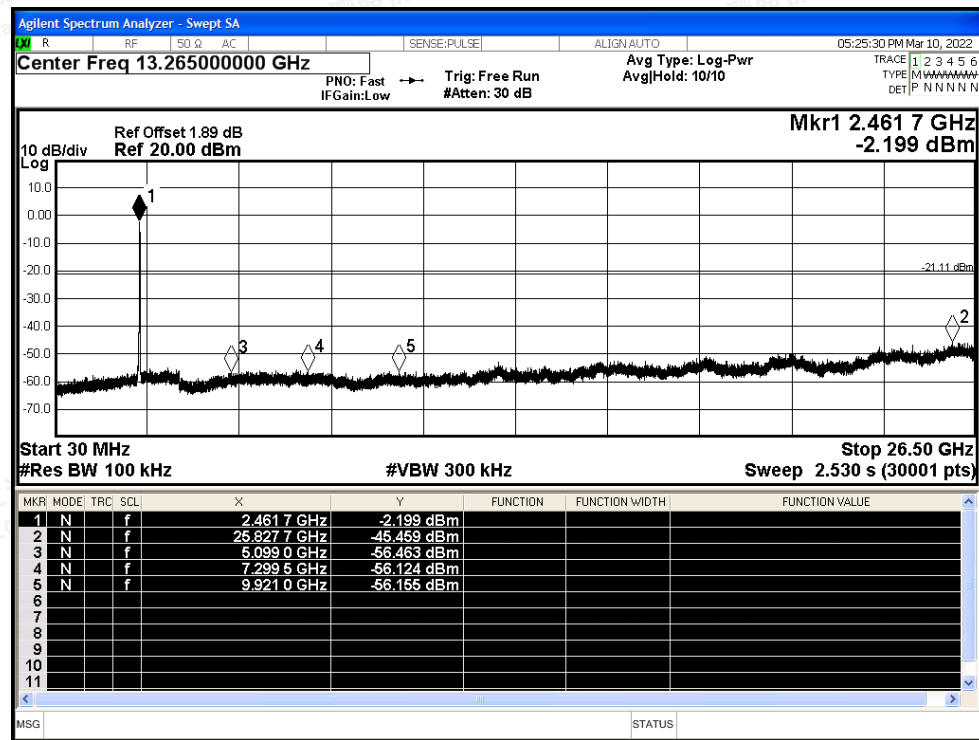
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

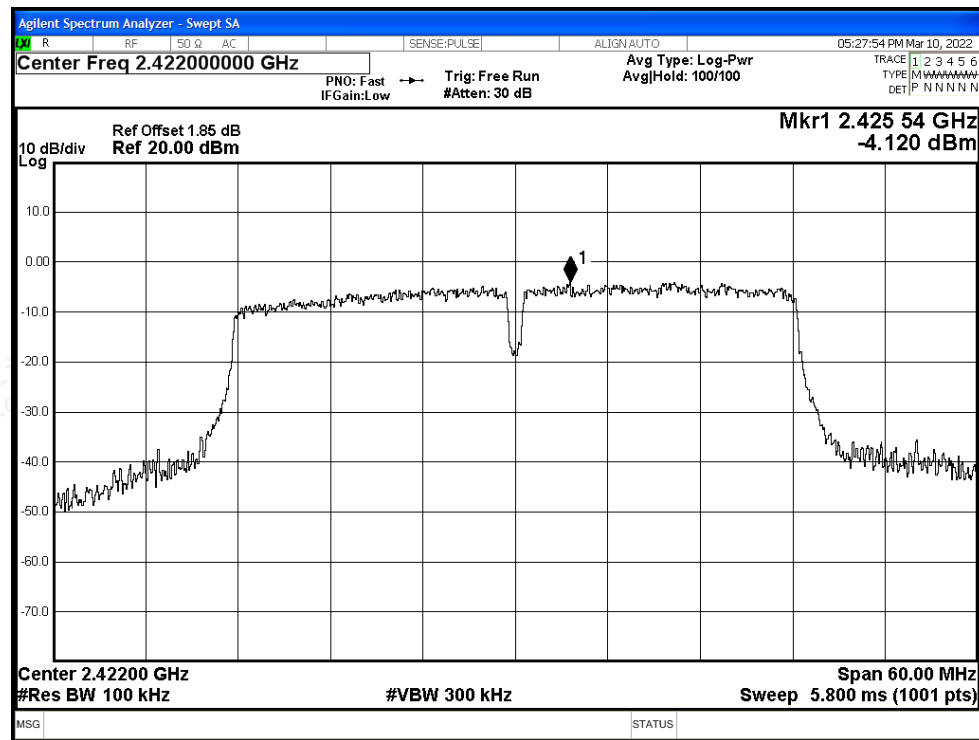
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

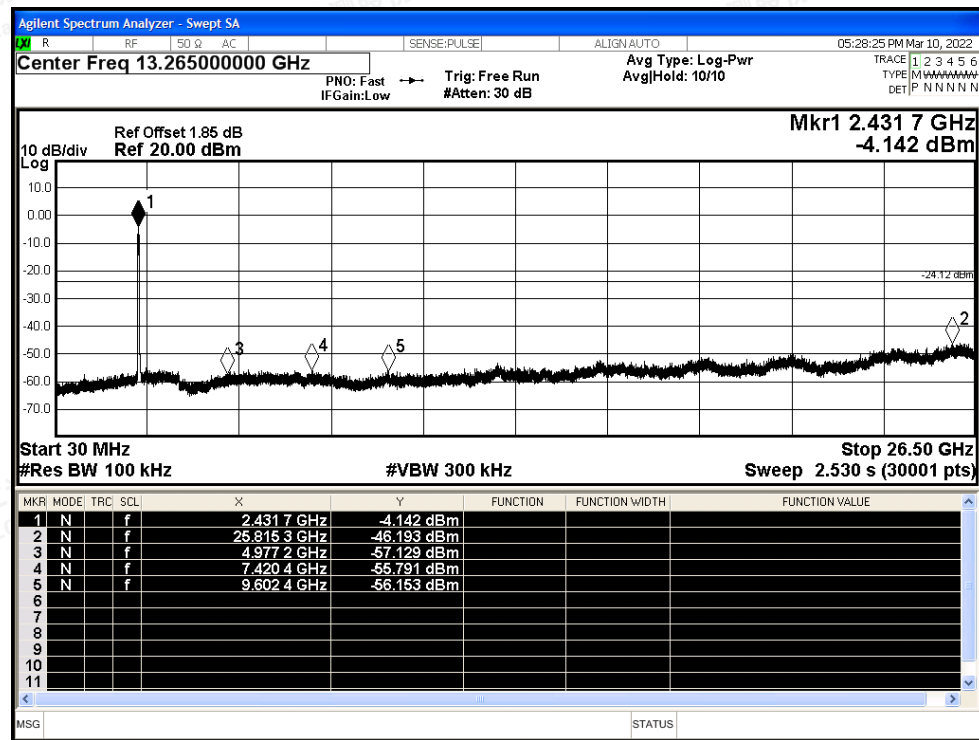
Scan code to check authenticity



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

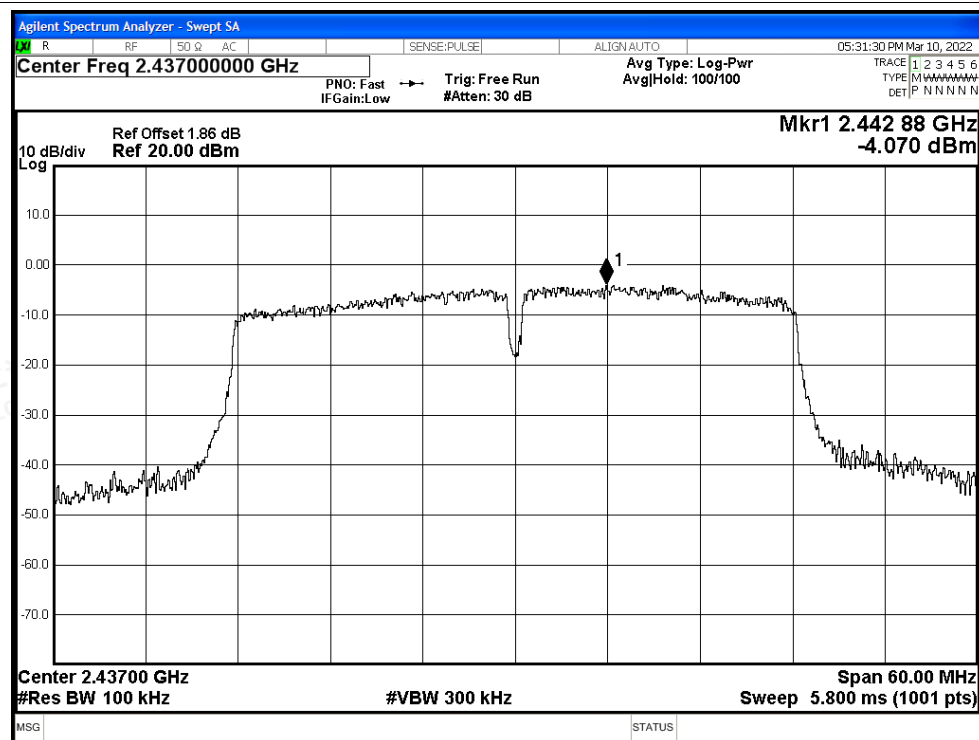
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

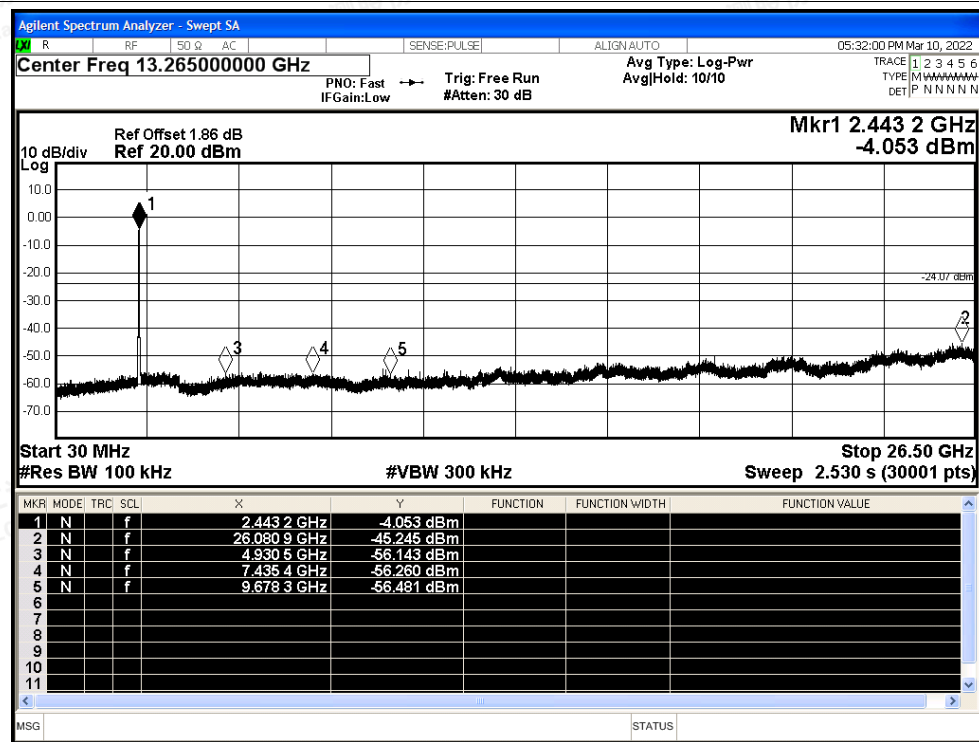
Scan code to check authenticity



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

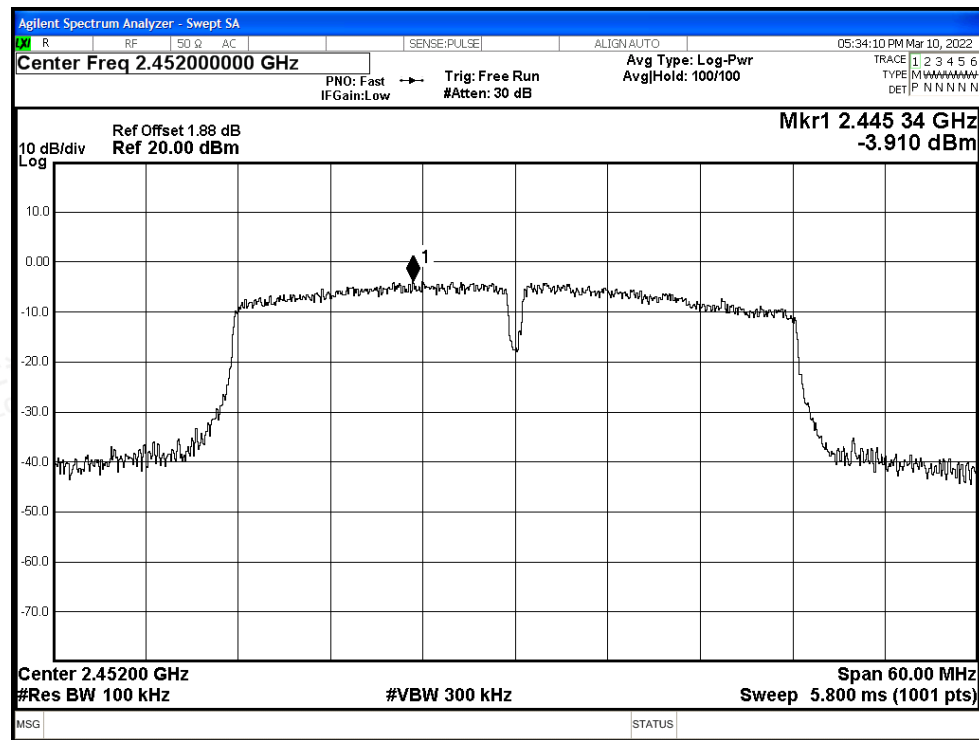
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

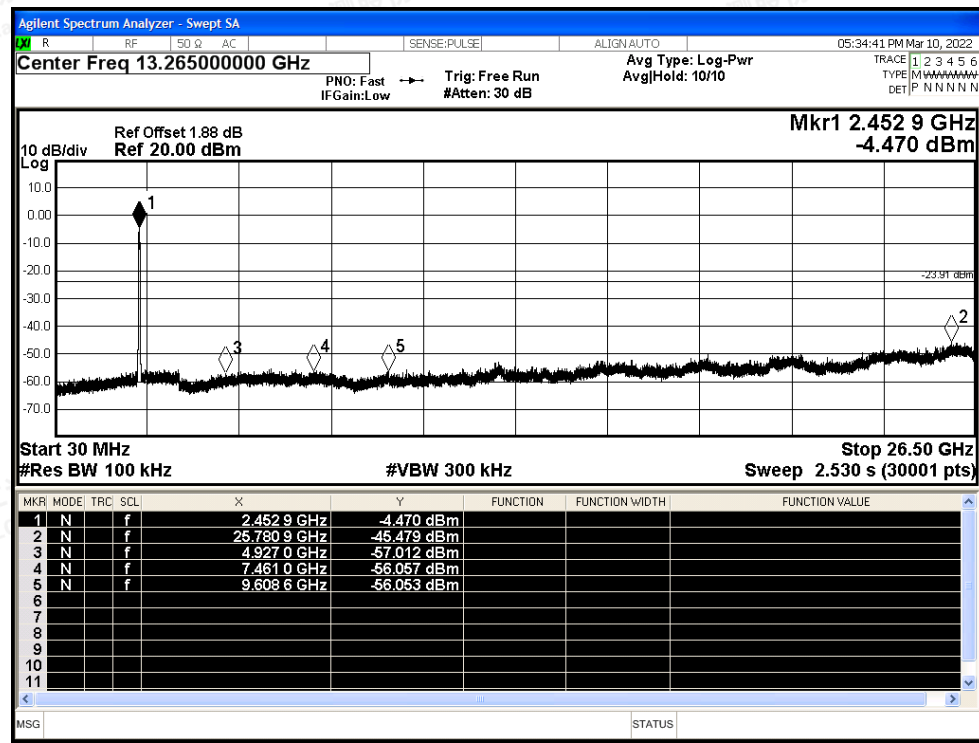
Scan code to check authenticity



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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

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A.6 Duty Cycle

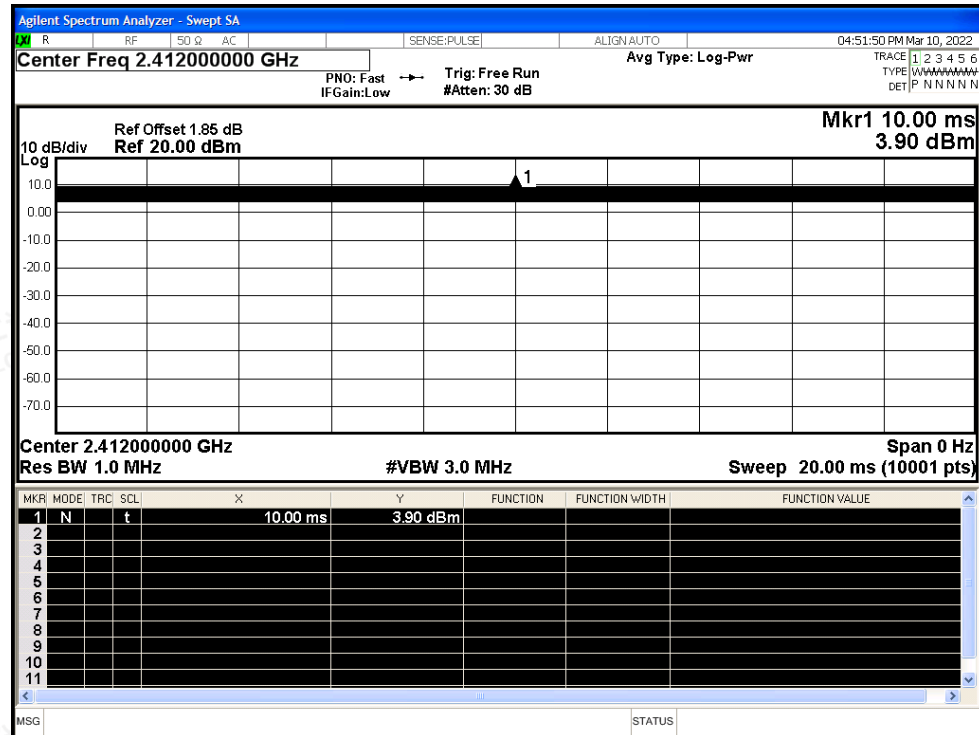
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0



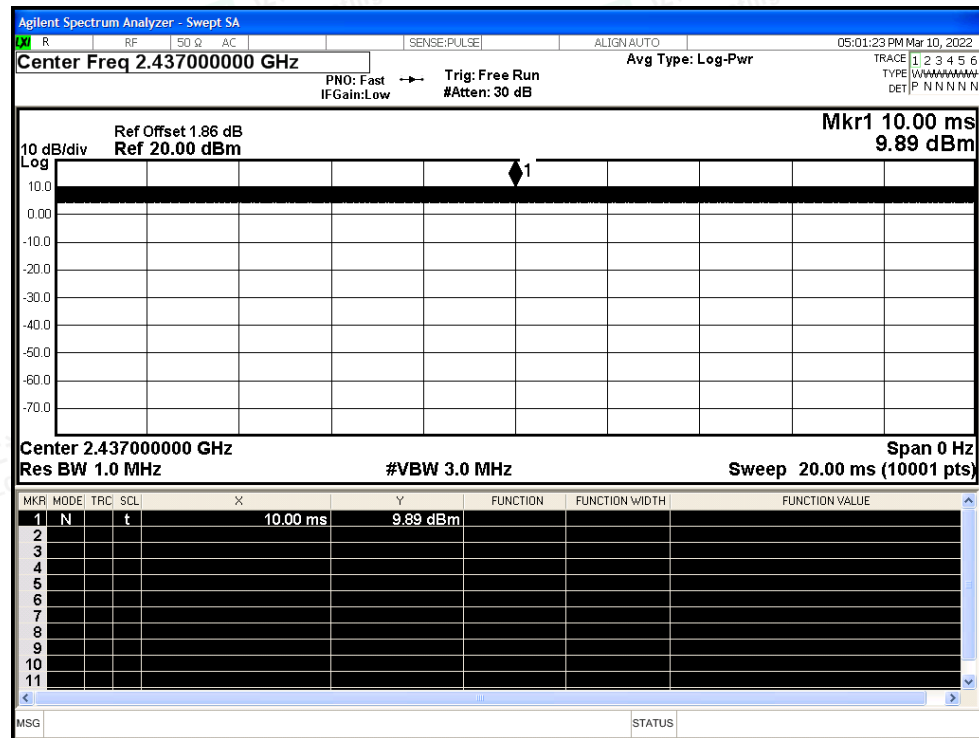


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

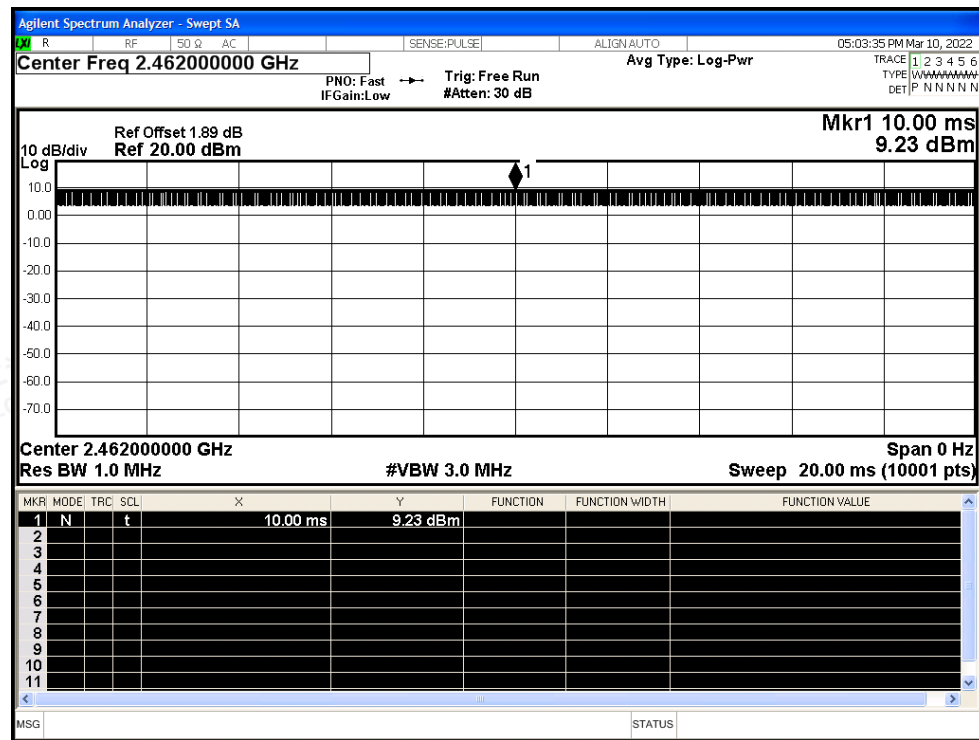
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

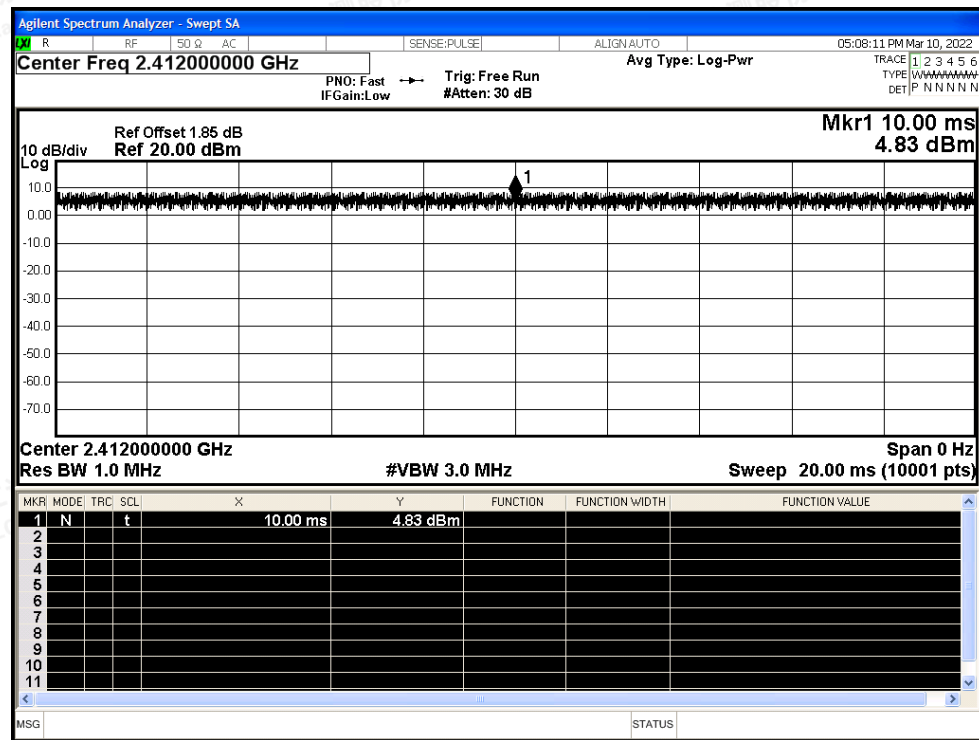
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

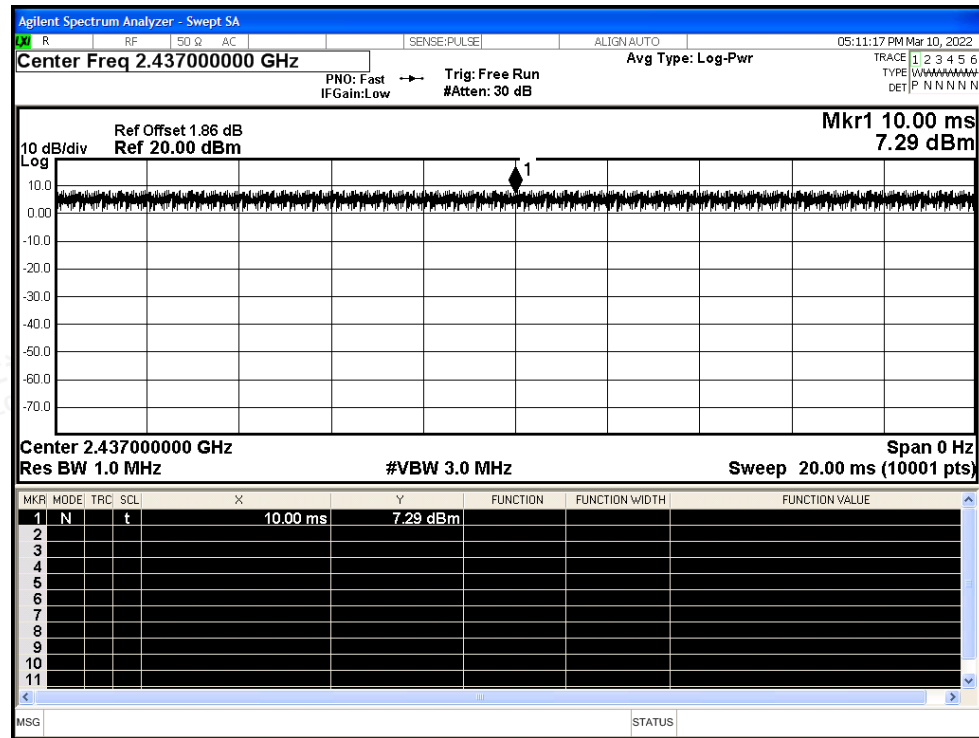
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

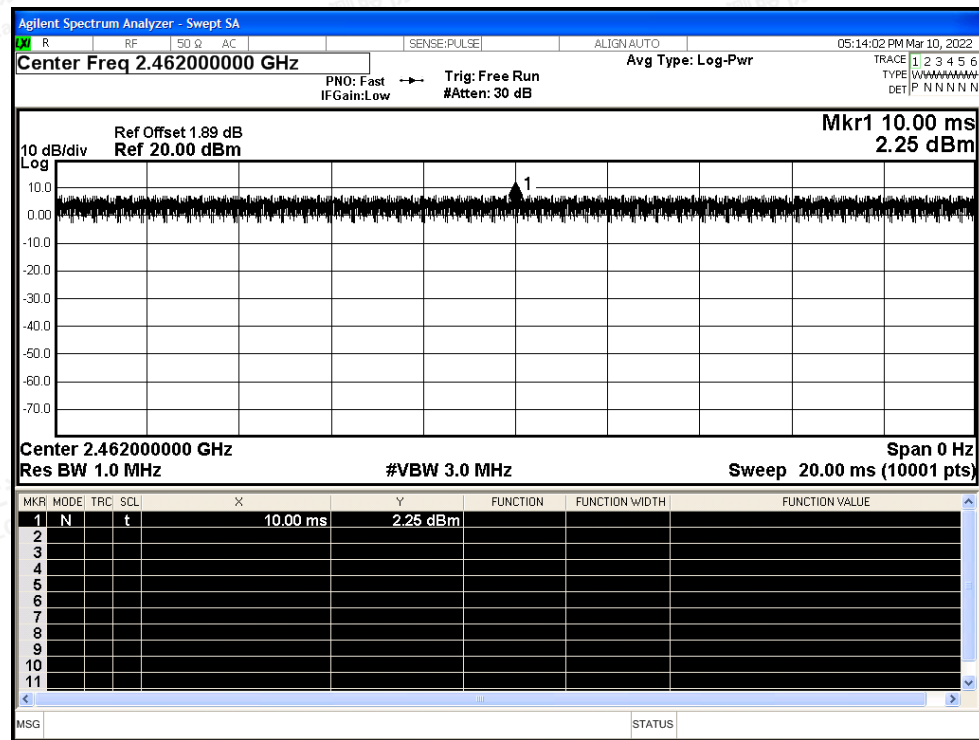
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

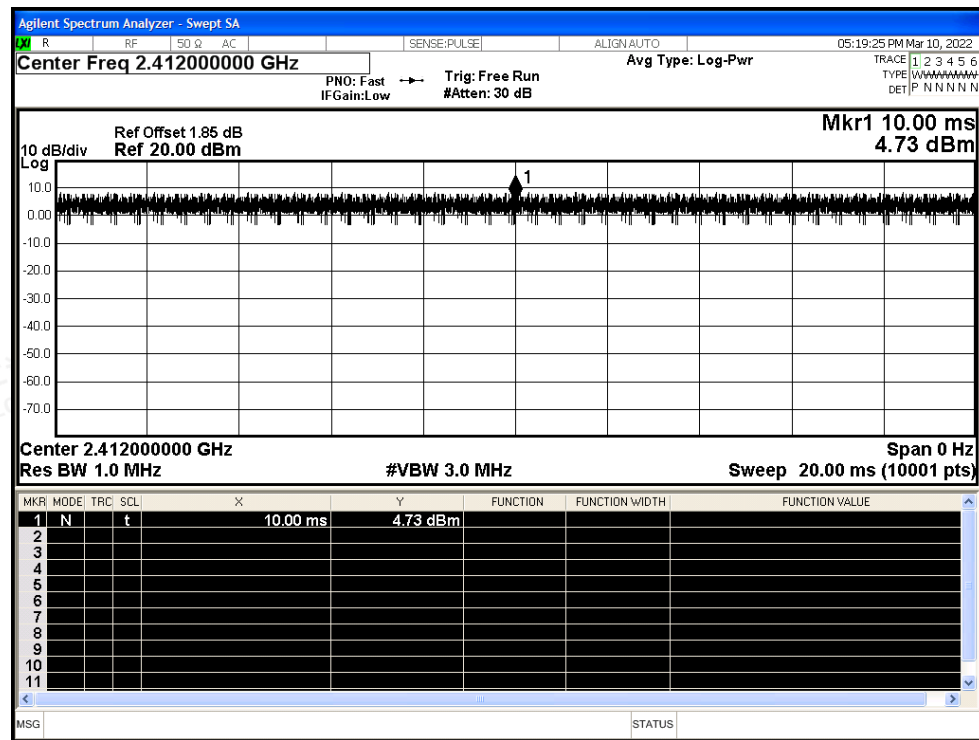
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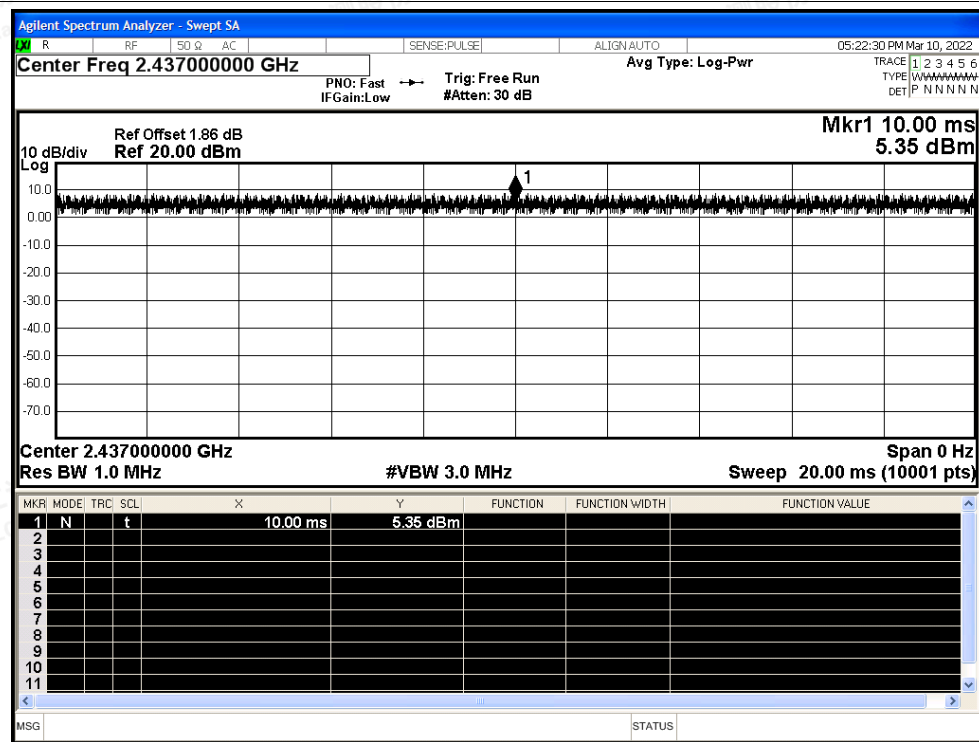
Scan code to check authenticity



Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

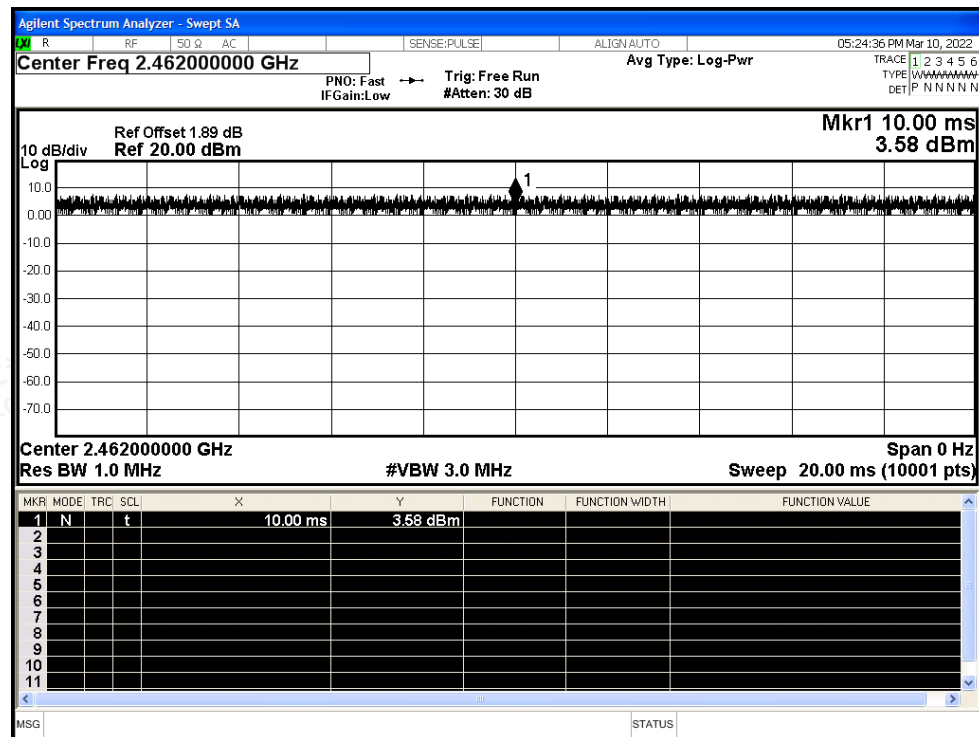
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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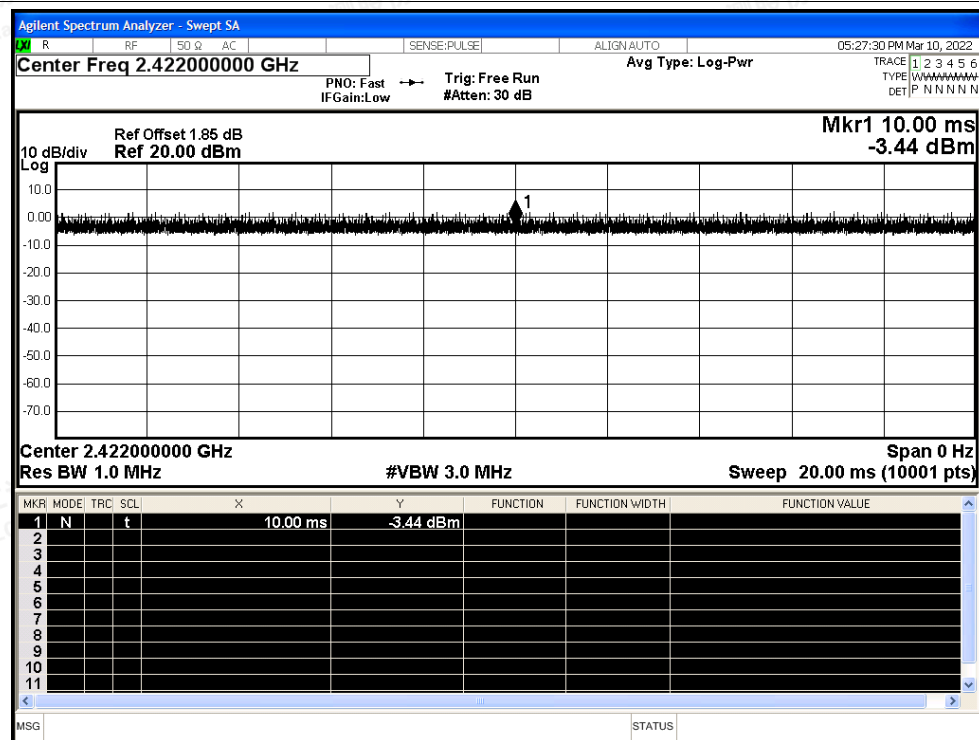
Scan code to check authenticity



Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



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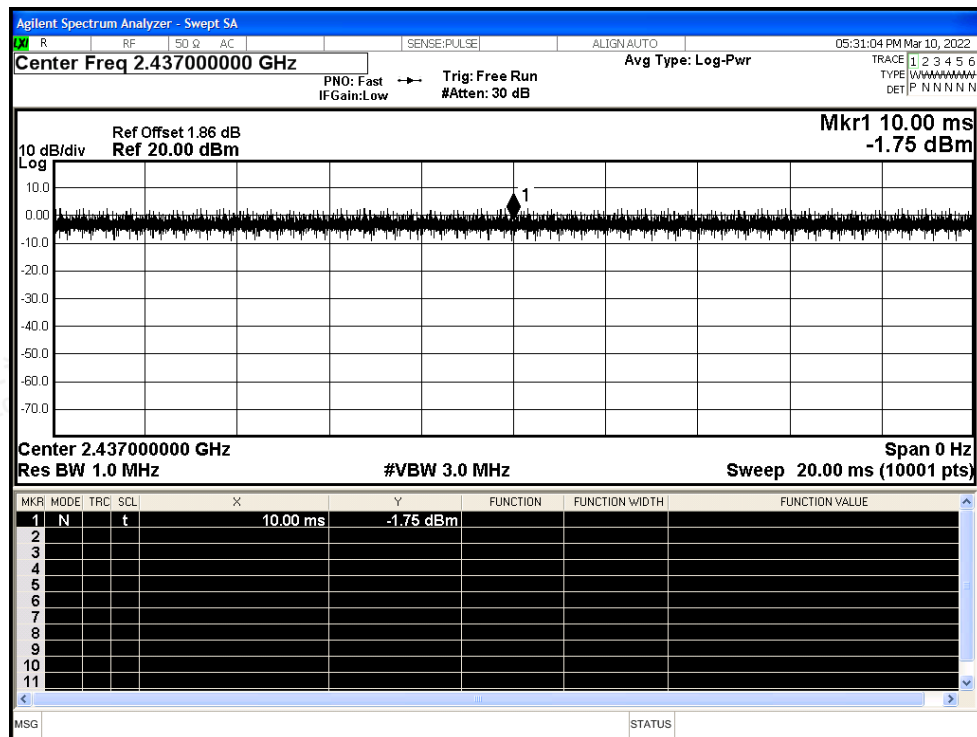
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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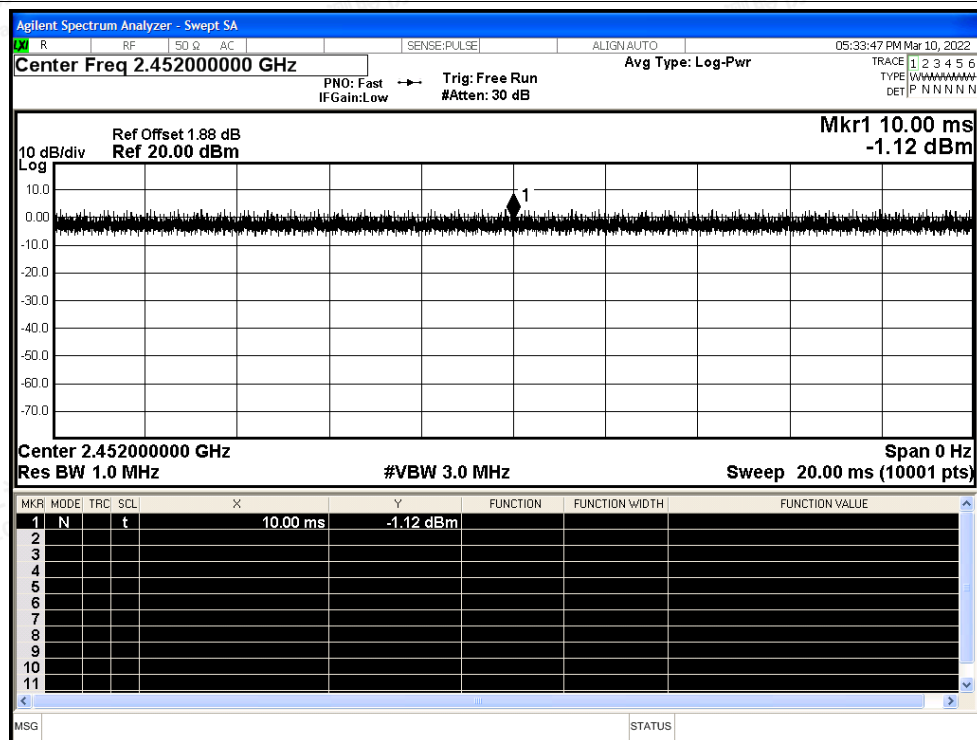
Scan code to check authenticity



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	2310	-50.93	2	46.33	Peak	74	Pass
NVNT	b	2412	2310	-60.89	2	36.37	Average	54	Pass
NVNT	b	2412	2329.972	-47.92	2	49.34	Peak	74	Pass
NVNT	b	2412	2389.916	-60.06	2	37.2	Average	54	Pass
NVNT	b	2412	2390	-49.55	2	47.71	Peak	74	Pass
NVNT	b	2412	2390	-60.04	2	37.22	Average	54	Pass
NVNT	b	2462	2483.5	-43.32	2	53.94	Peak	74	Pass
NVNT	b	2462	2483.5	-53.72	2	43.54	Average	54	Pass
NVNT	b	2462	2483.565	-43.32	2	53.94	Peak	74	Pass
NVNT	b	2462	2487.994	-51.07	2	46.19	Average	54	Pass
NVNT	b	2462	2500	-48.02	2	49.24	Peak	74	Pass
NVNT	b	2462	2500	-60.21	2	37.05	Average	54	Pass
NVNT	g	2412	2310	-51	2	46.26	Peak	74	Pass
NVNT	g	2412	2310	-60.54	2	36.72	Average	54	Pass
NVNT	g	2412	2389.408	-42.24	2	55.02	Peak	74	Pass
NVNT	g	2412	2389.916	-56.2	2	41.06	Average	54	Pass
NVNT	g	2412	2390	-42.94	2	54.32	Peak	74	Pass
NVNT	g	2412	2390	-55.92	2	41.34	Average	54	Pass
NVNT	g	2462	2483.5	-38.75	2	58.51	Peak	74	Pass
NVNT	g	2462	2483.5	-51.3	2	45.96	Average	54	Pass
NVNT	g	2462	2483.565	-38.75	2	58.51	Peak	74	Pass
NVNT	g	2462	2487.994	-46.9	2	50.36	Average	54	Pass
NVNT	g	2462	2500	-50.79	2	46.47	Peak	74	Pass
NVNT	g	2462	2500	-59.74	2	37.52	Average	54	Pass
NVNT	n20	2412	2310	-48.92	2	48.34	Peak	74	Pass
NVNT	n20	2412	2310	-60.49	2	36.77	Average	54	Pass
NVNT	n20	2412	2389.408	-44.12	2	53.14	Peak	74	Pass
NVNT	n20	2412	2389.916	-56.49	2	40.77	Average	54	Pass
NVNT	n20	2412	2390	-43.41	2	53.85	Peak	74	Pass
NVNT	n20	2412	2390	-56.31	2	40.95	Average	54	Pass
NVNT	n20	2462	2483.5	-39	2	58.26	Peak	74	Pass
NVNT	n20	2462	2483.5	-50.08	2	47.18	Average	54	Pass
NVNT	n20	2462	2484.801	-36.61	2	60.65	Peak	74	Pass
NVNT	n20	2462	2487.994	-46.83	2	50.43	Average	54	Pass
NVNT	n20	2462	2500	-49.68	2	47.58	Peak	74	Pass
NVNT	n20	2462	2500	-59.65	2	37.61	Average	54	Pass
NVNT	n40	2422	2310	-51.06	2	46.2	Peak	74	Pass



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NVNT	n40	2422	2310	-60.06	2	37.2	Average	54	Pass
NVNT	n40	2422	2389.832	-40.36	2	56.9	Peak	74	Pass
NVNT	n40	2422	2389.984	-53.14	2	44.12	Average	54	Pass
NVNT	n40	2422	2390	-41.36	2	55.9	Peak	74	Pass
NVNT	n40	2422	2390	-53.2	2	44.06	Average	54	Pass
NVNT	n40	2452	2483.5	-30.71	2	66.55	Peak	74	Pass
NVNT	n40	2452	2483.5	-47.01	2	50.25	Average	54	Pass
NVNT	n40	2452	2484.08	-29.18	2	68.08	Peak	74	Pass
NVNT	n40	2452	2483.568	-47.01	2	50.25	Average	54	Pass
NVNT	n40	2452	2500	-43.56	2	53.7	Peak	74	Pass
NVNT	n40	2452	2500	-52.81	2	44.45	Average	54	Pass



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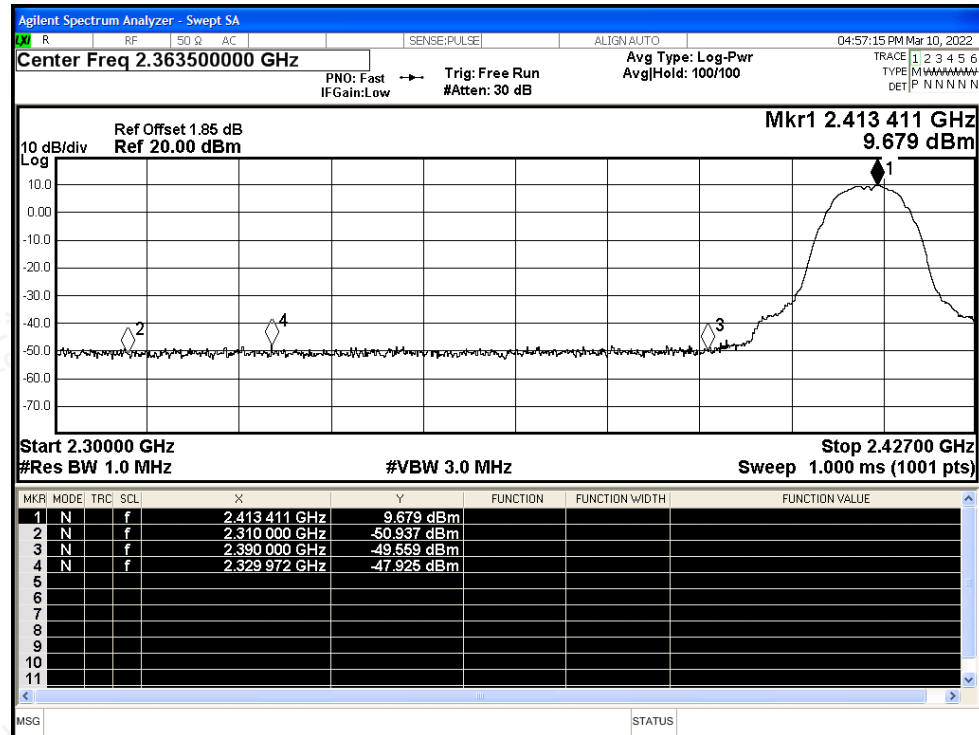
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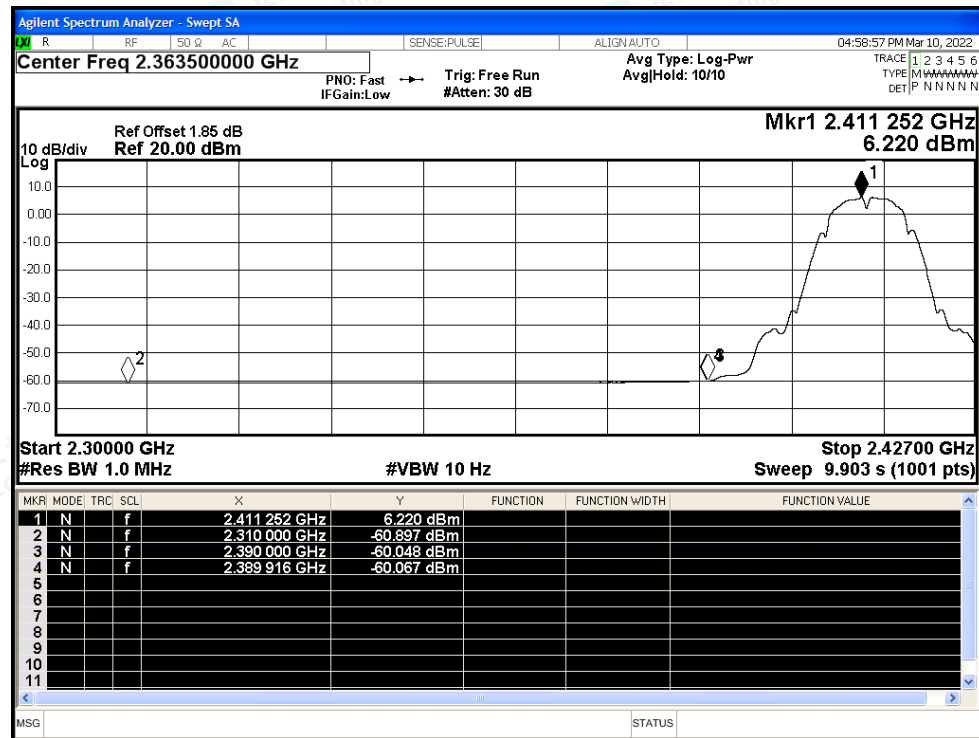


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

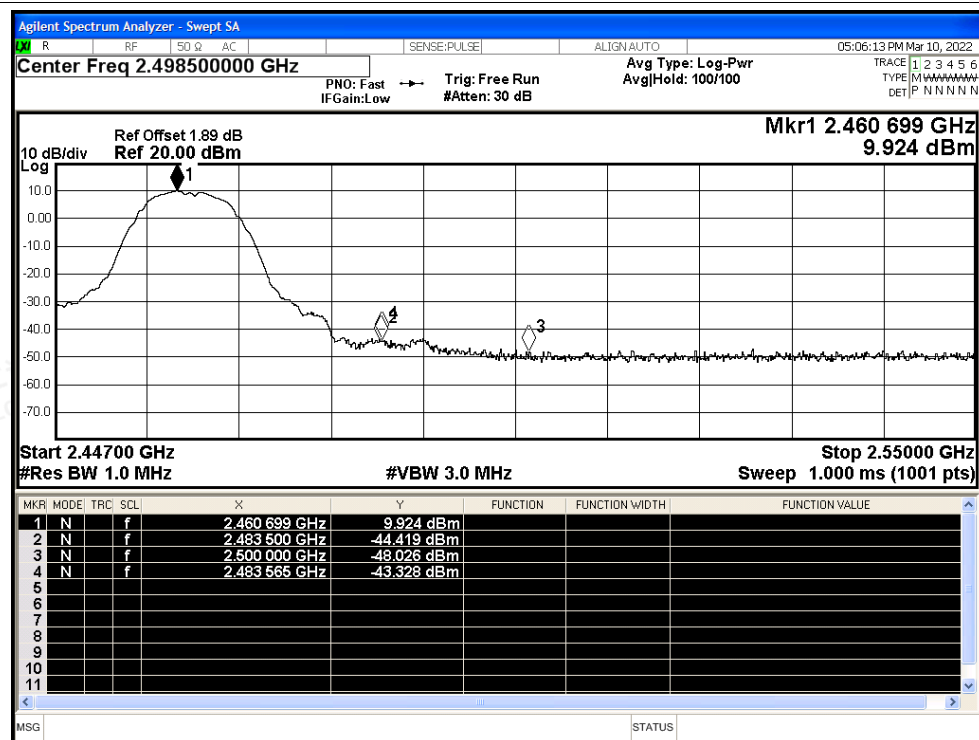
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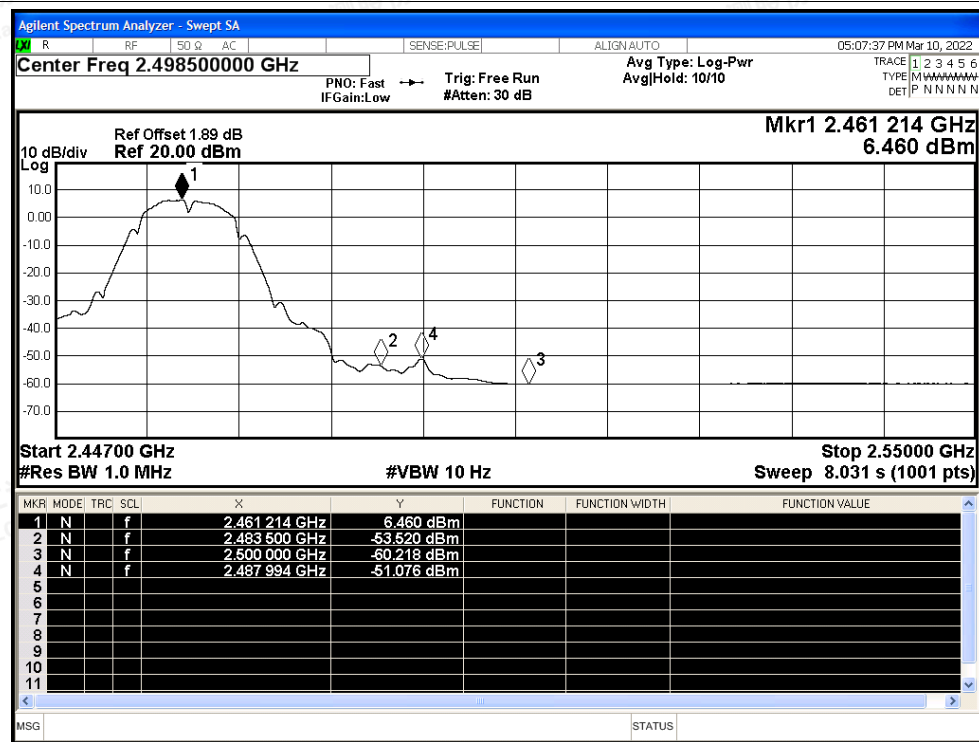
Scan code to check authenticity



Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

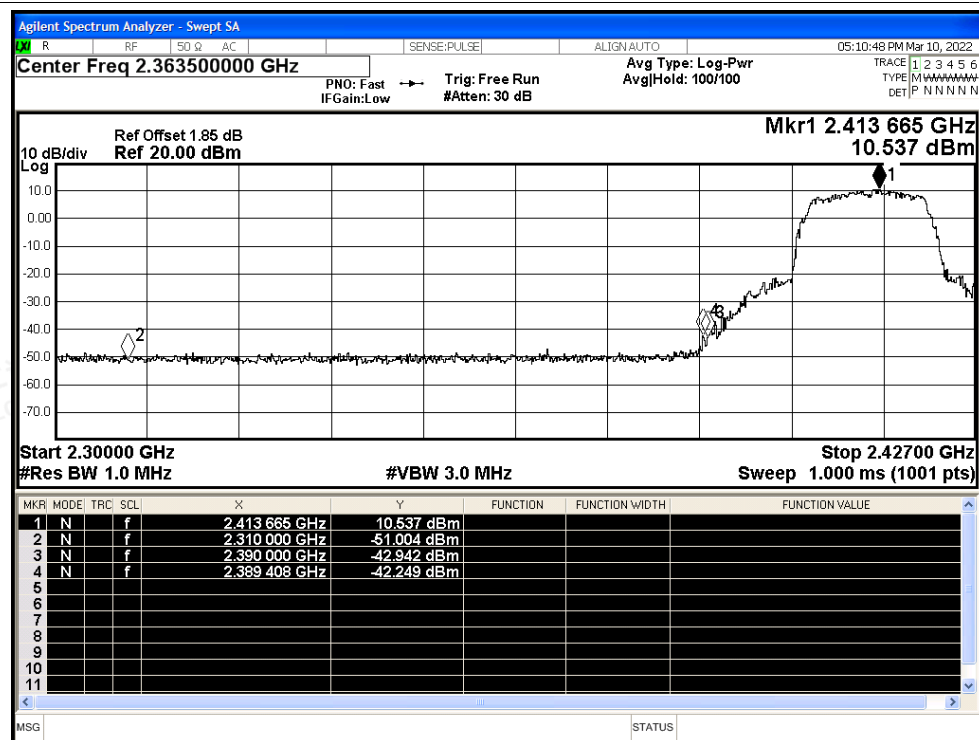
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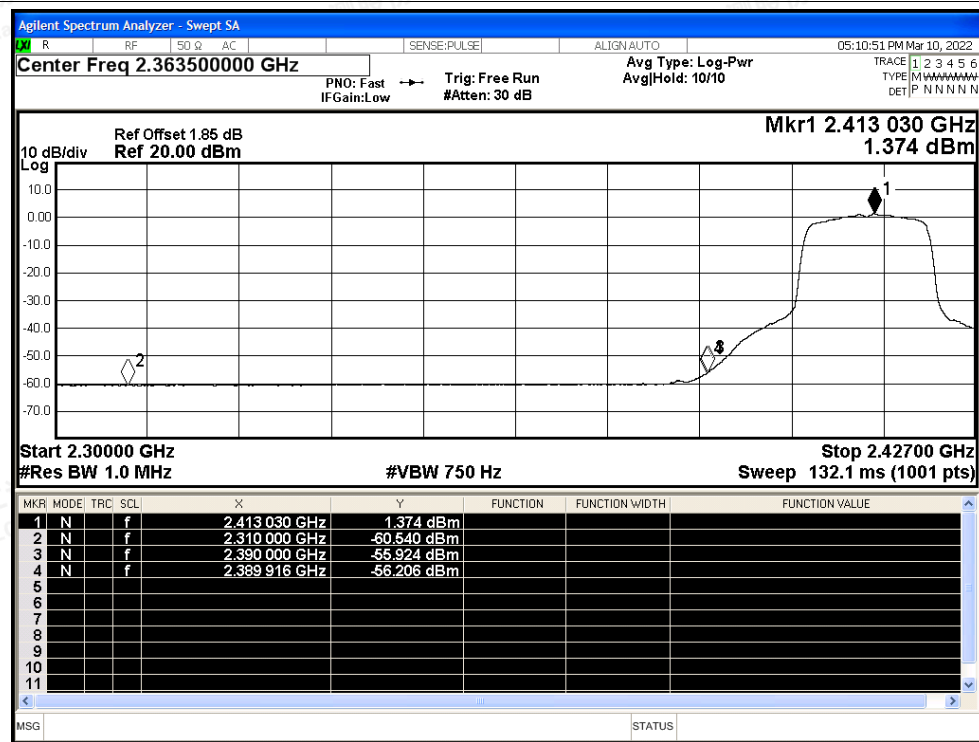
Scan code to check authenticity



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

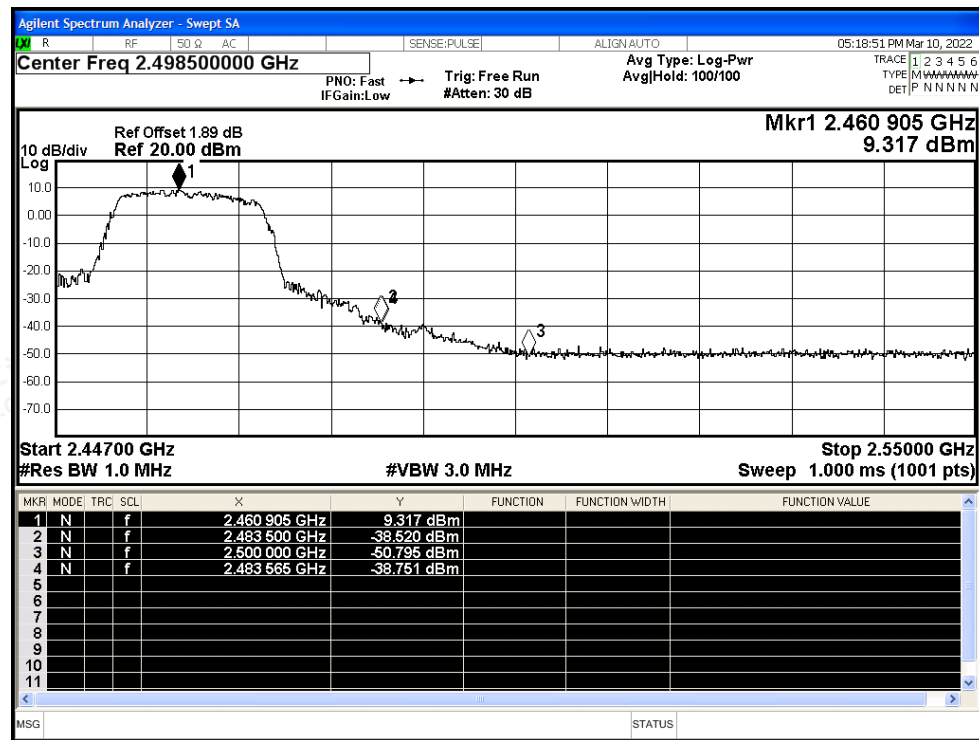
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

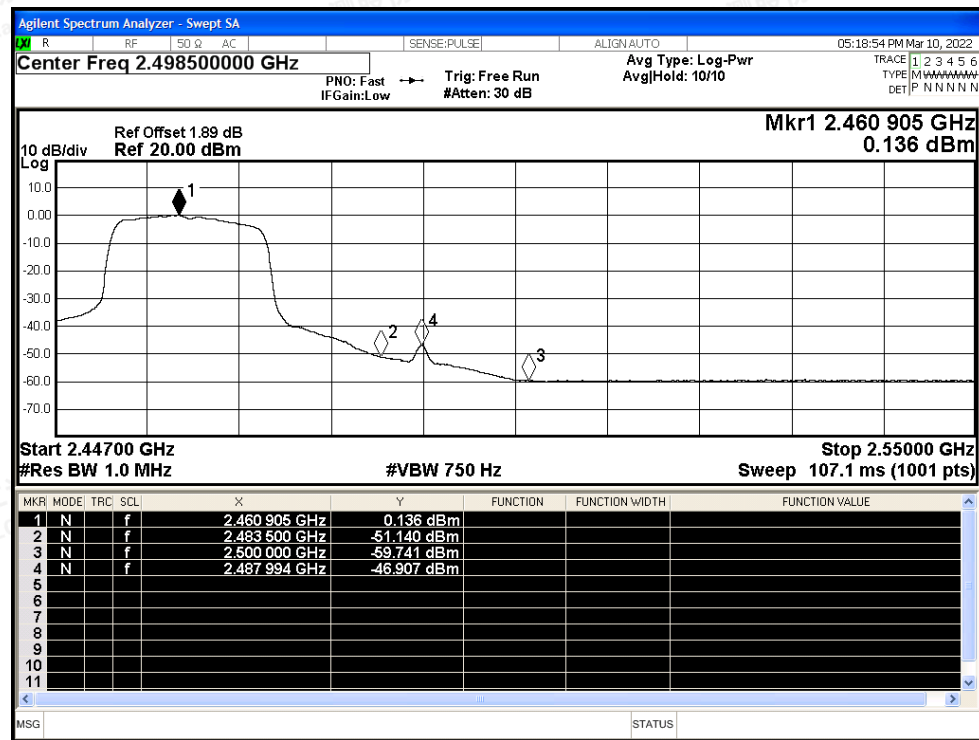
Scan code to check authenticity



Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

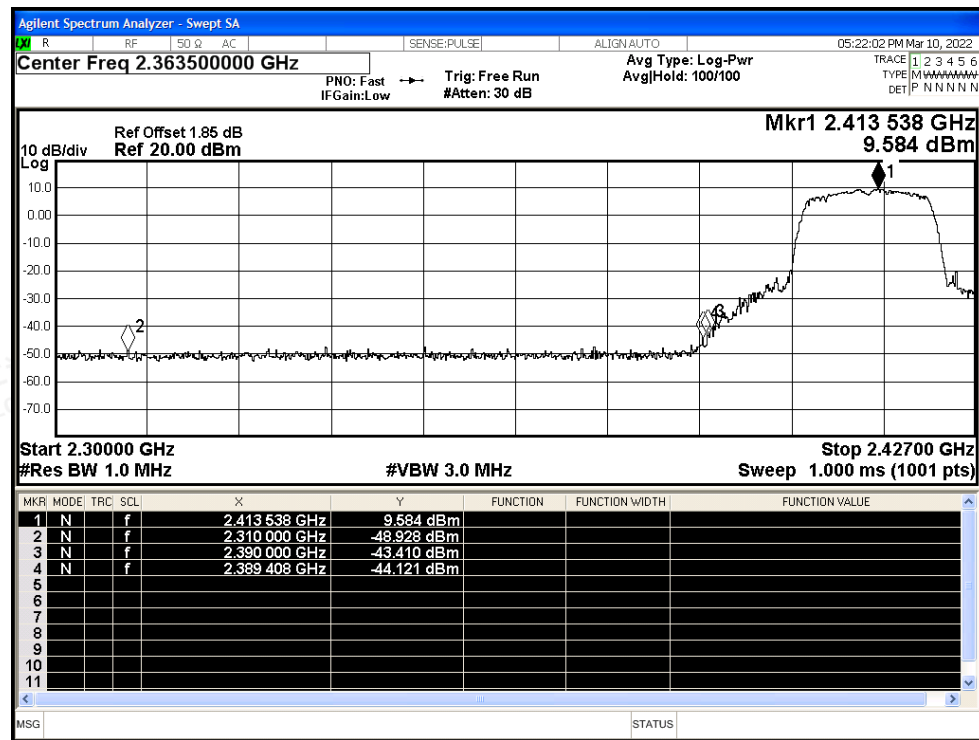
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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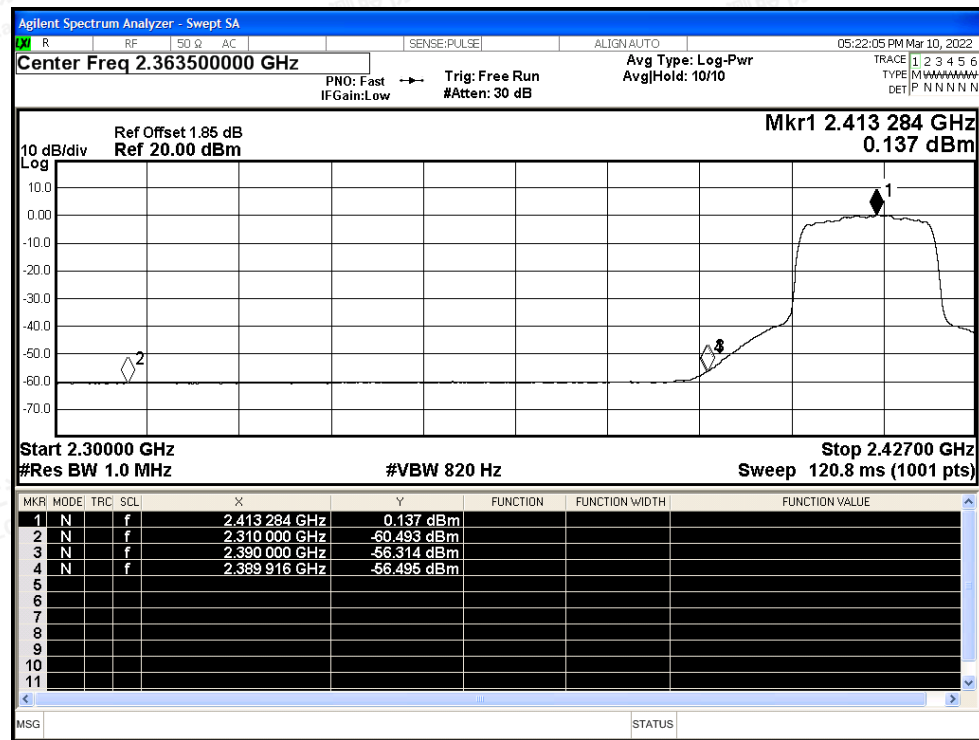
Scan code to check authenticity



Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

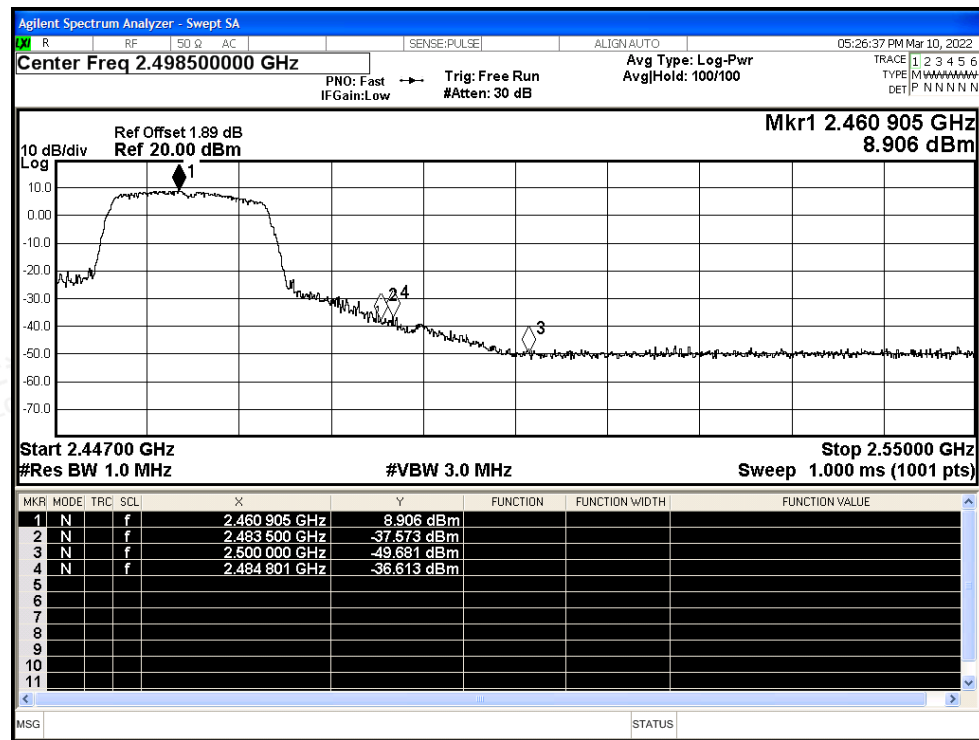
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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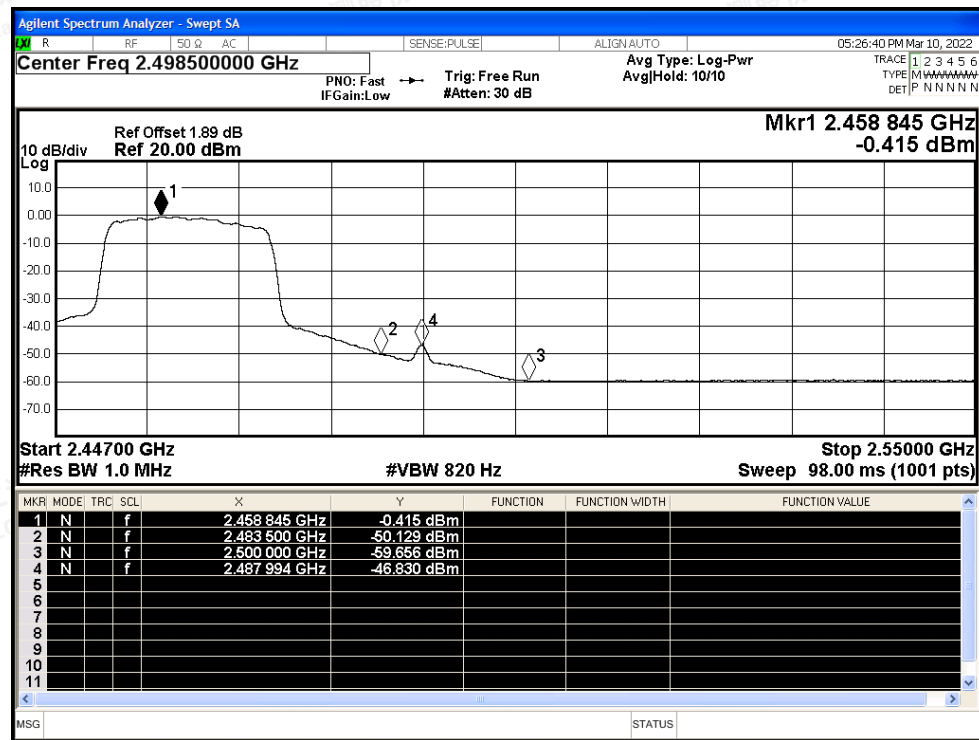
Scan code to check authenticity



Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

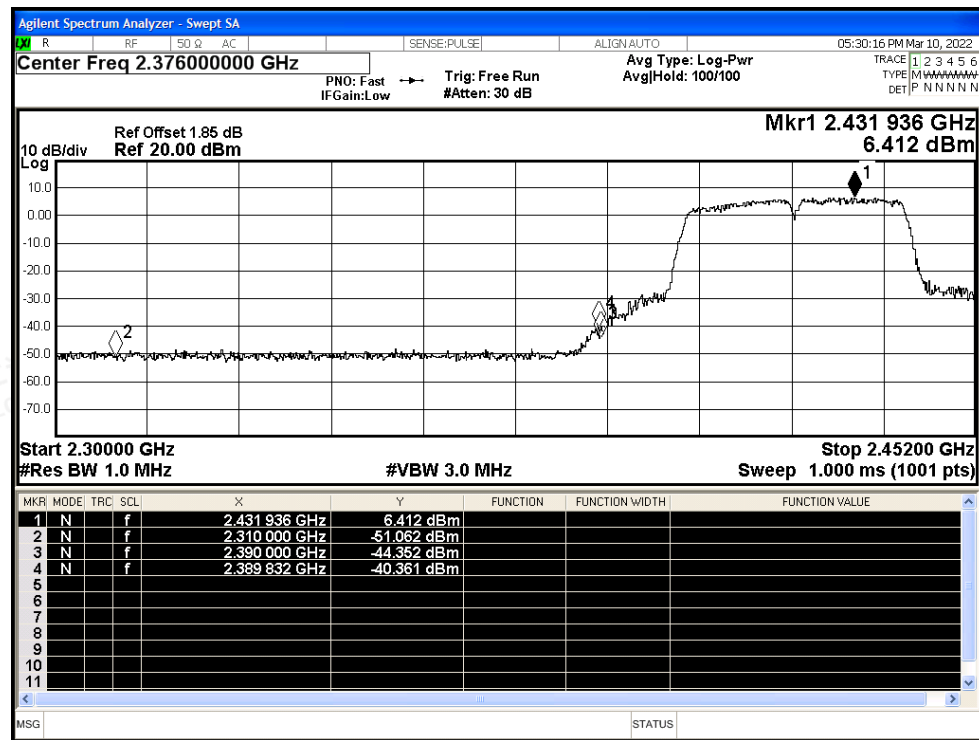
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

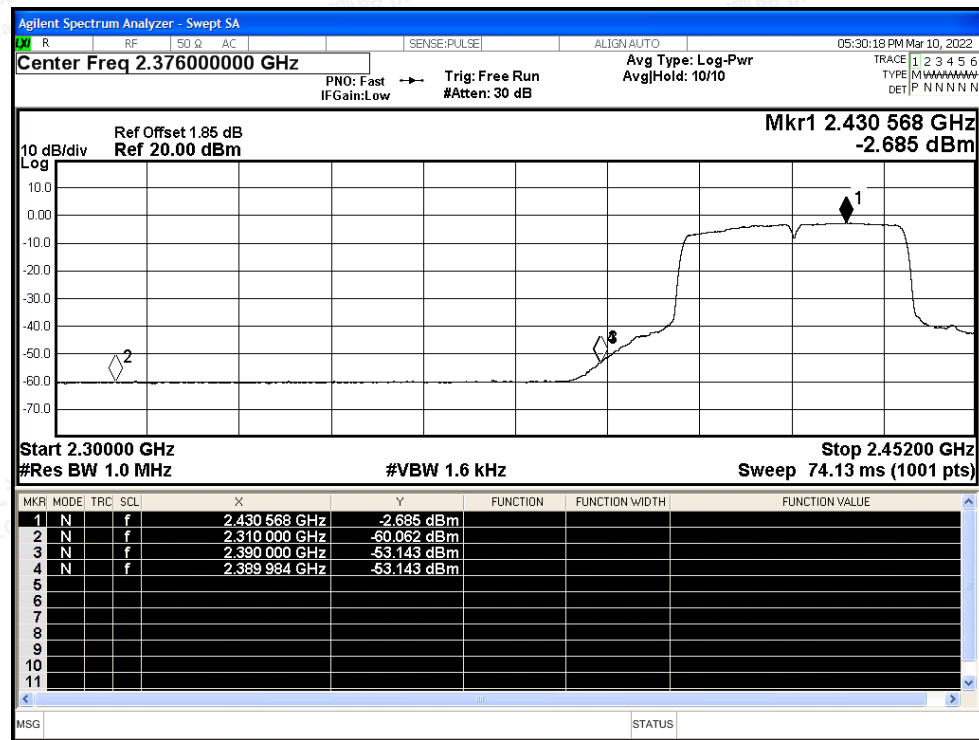
Scan code to check authenticity



Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

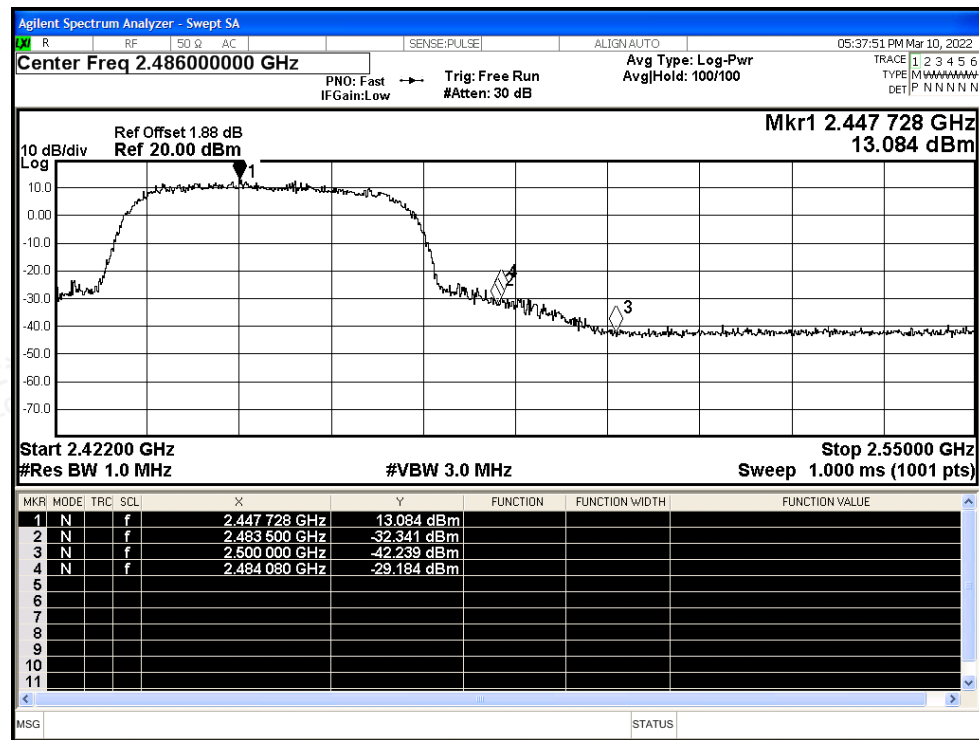
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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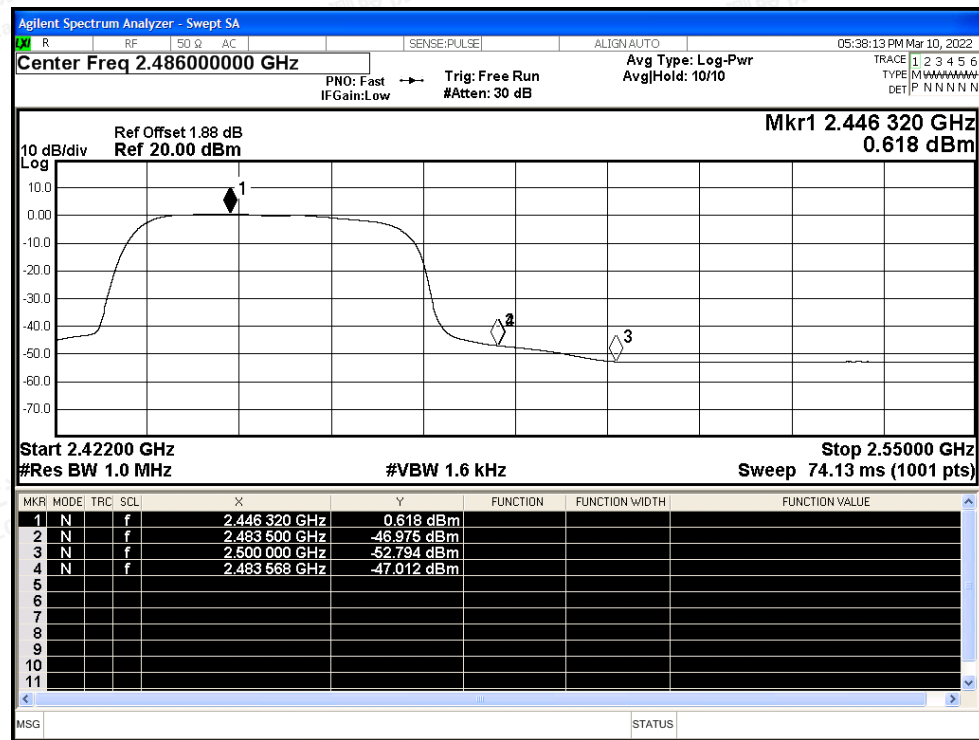
Scan code to check authenticity



Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

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