



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Diagnostic System

Test Model: P902

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Jack Cheng



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C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	8.566	≥ 0.5	Pass
NVNT	b	2437	Ant0	8.516	≥ 0.5	Pass
NVNT	b	2462	Ant0	8.271	≥ 0.5	Pass
NVNT	g	2412	Ant0	15.664	≥ 0.5	Pass
NVNT	g	2437	Ant0	16.327	≥ 0.5	Pass
NVNT	g	2462	Ant0	16.067	≥ 0.5	Pass
NVNT	n20	2412	Ant0	16.841	≥ 0.5	Pass
NVNT	n20	2437	Ant0	17.131	≥ 0.5	Pass
NVNT	n20	2462	Ant0	16.989	≥ 0.5	Pass
NVNT	n40	2422	Ant0	35.863	≥ 0.5	Pass
NVNT	n40	2437	Ant0	35.507	≥ 0.5	Pass
NVNT	n40	2452	Ant0	35.674	≥ 0.5	Pass

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.058	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.043	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.066	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.258	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.056	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.327	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.137	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.962	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.903	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.624	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.488	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.599	≥ 0.5	Pass



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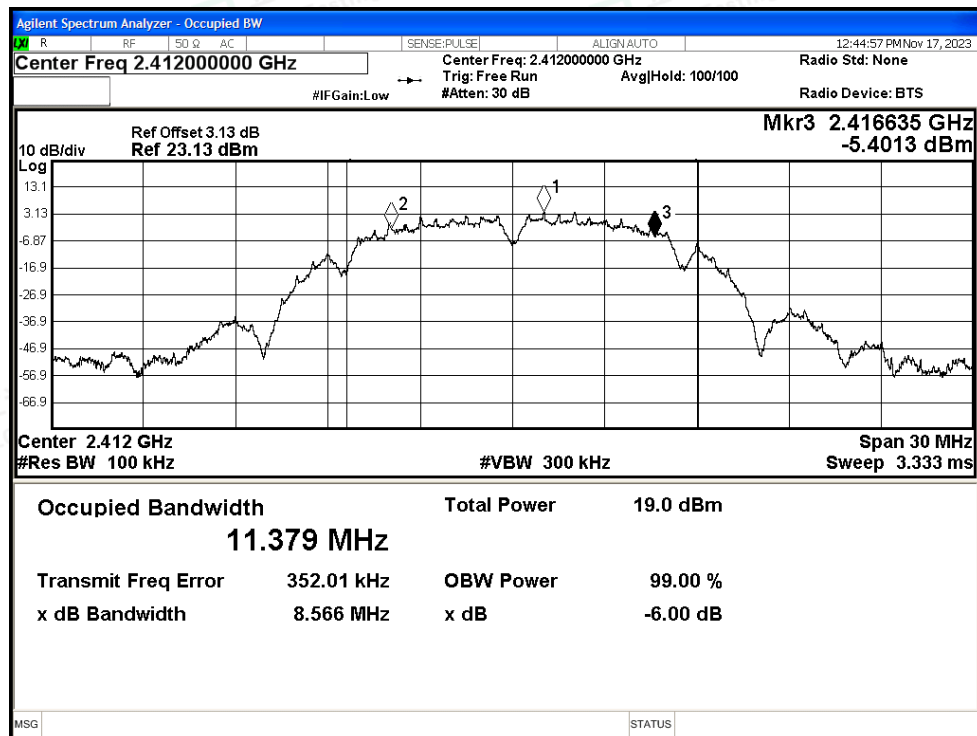
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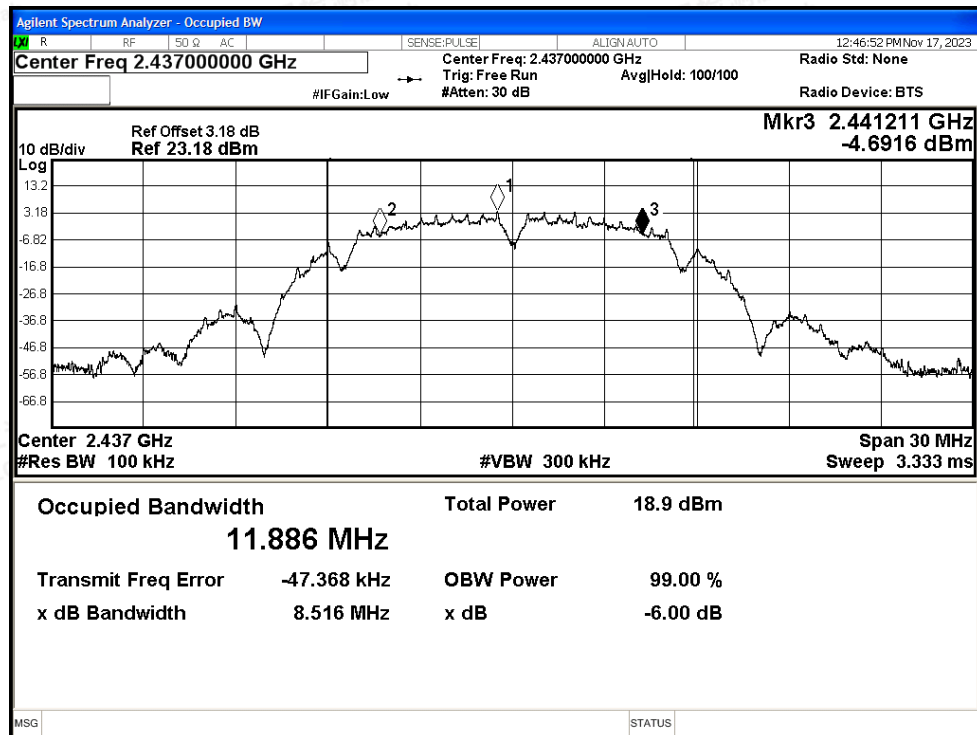


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0



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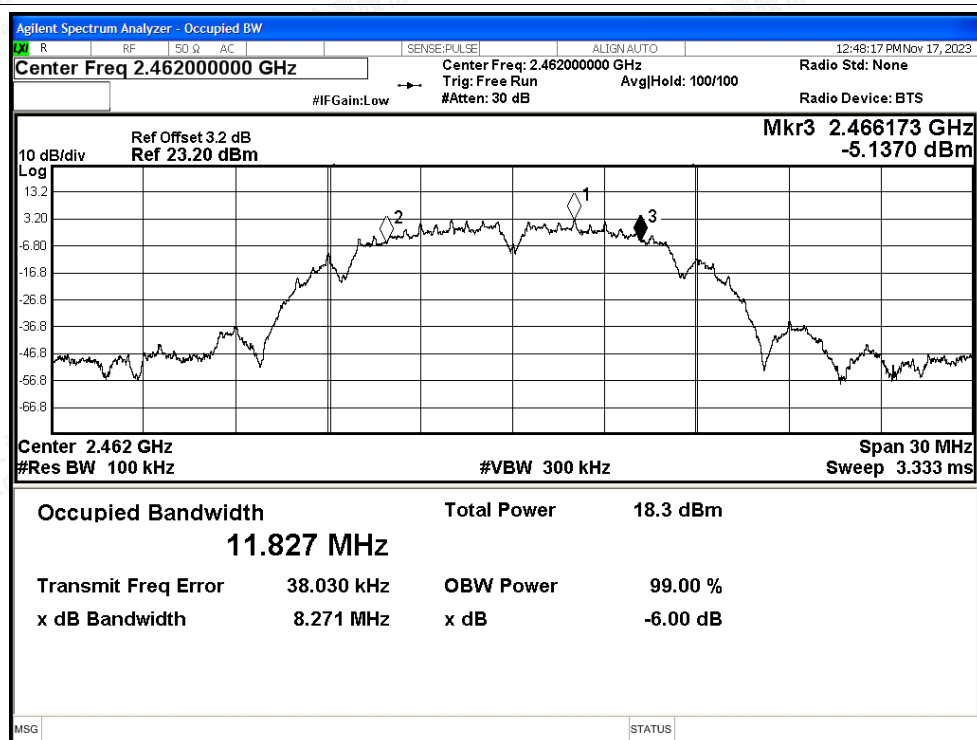
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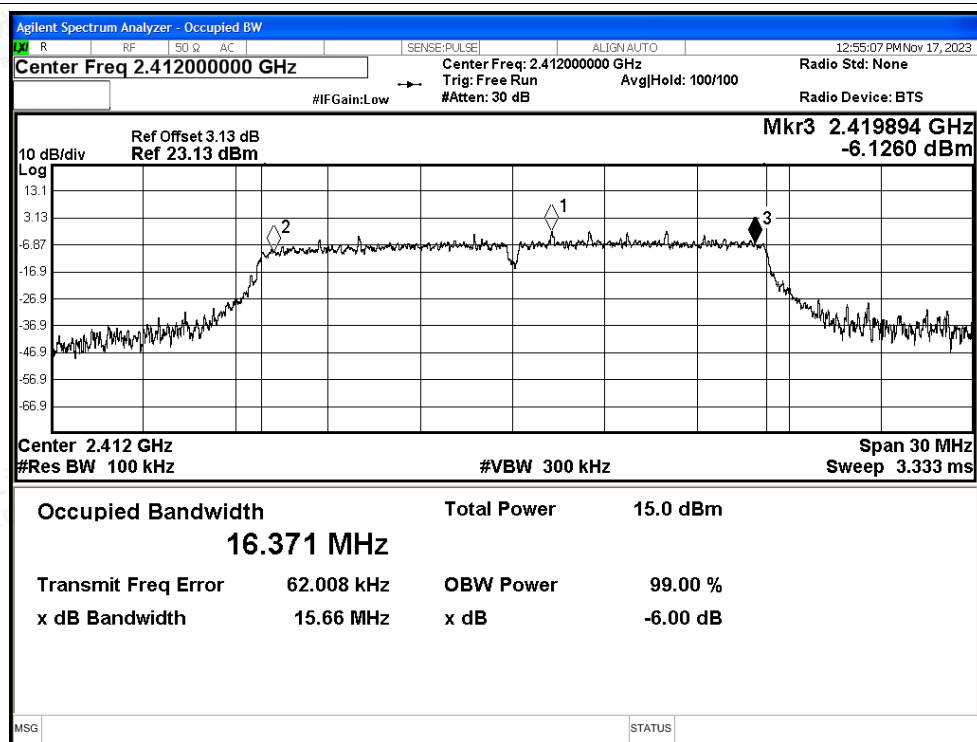
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-6dB Bandwidth NVNT b 2462MHz Ant0



-6dB Bandwidth NVNT g 2412MHz Ant0



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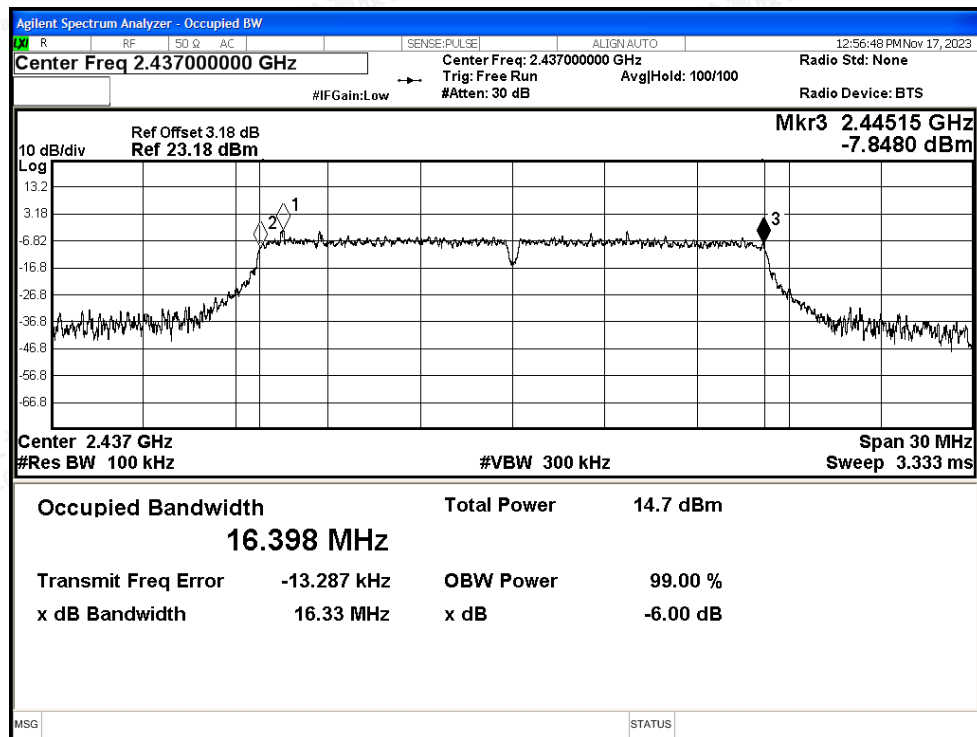
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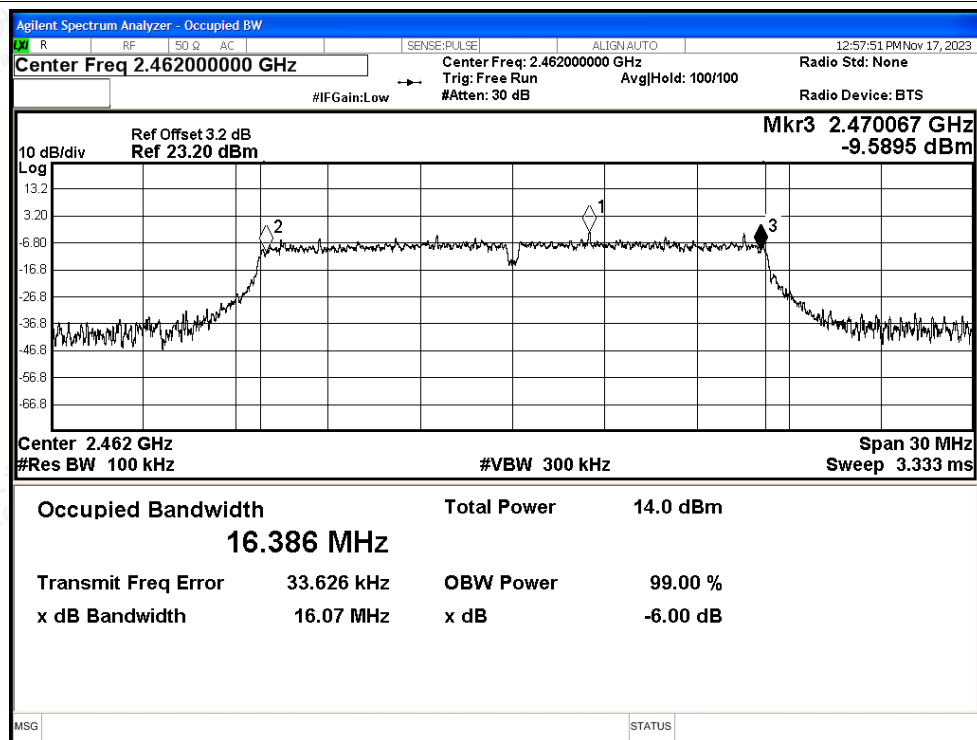
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-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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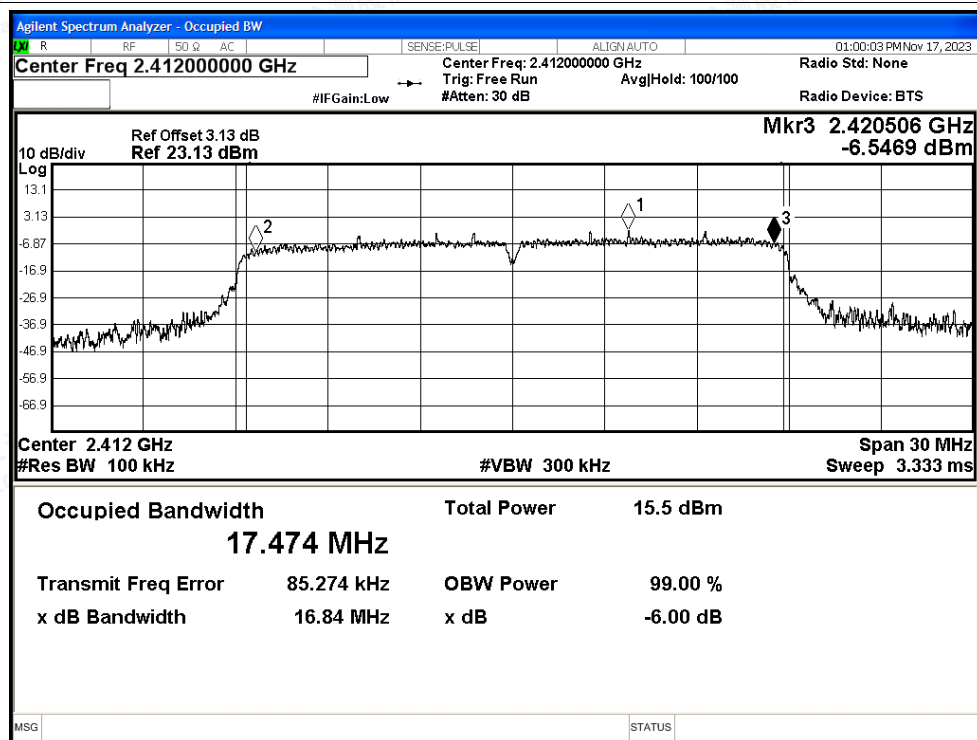
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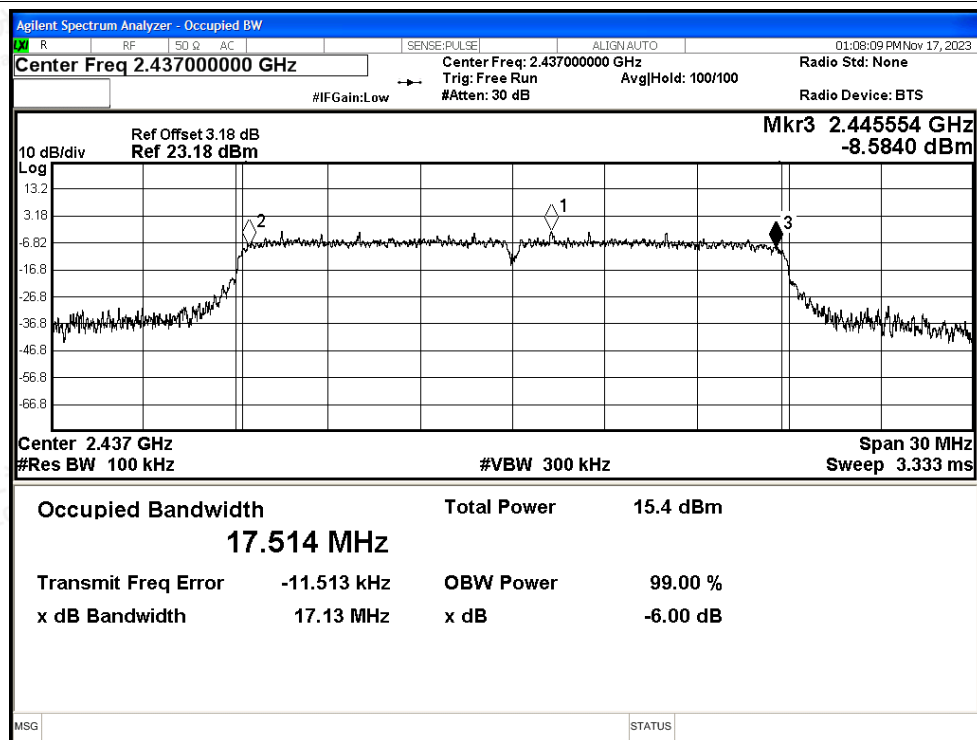
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-6dB Bandwidth NVNT n20 2412MHz Ant0



-6dB Bandwidth NVNT n20 2437MHz Ant0



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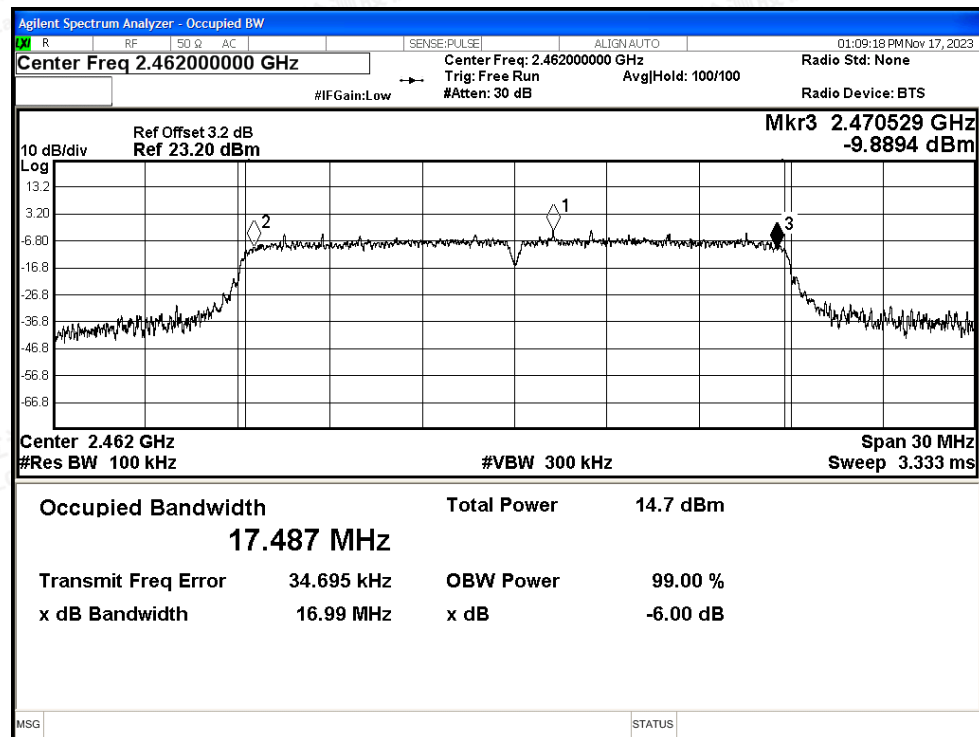
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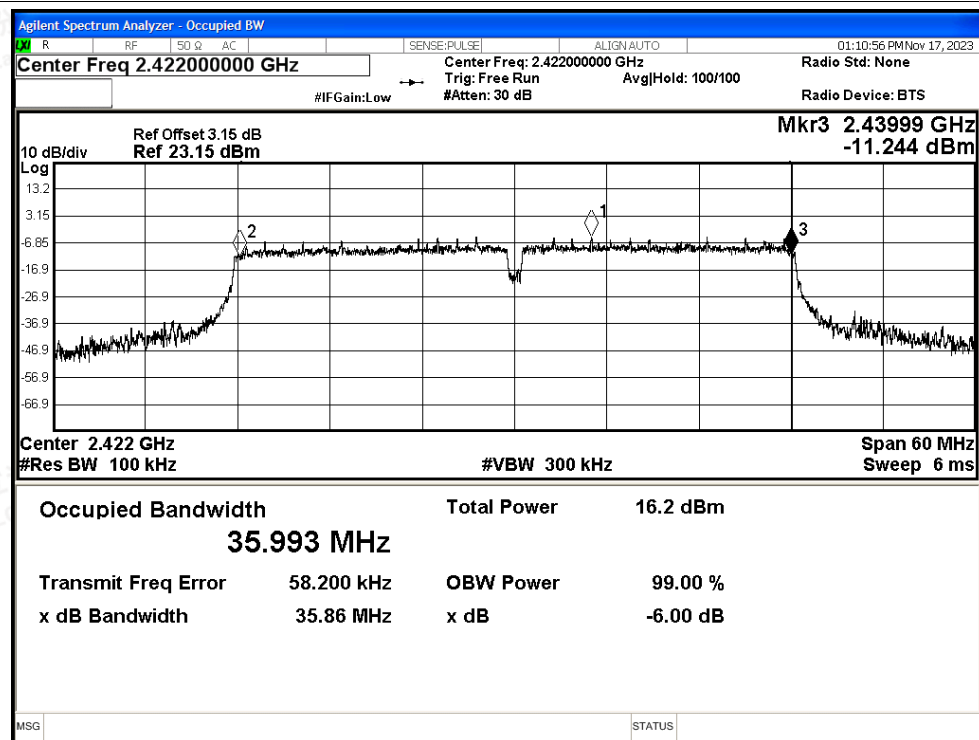
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-6dB Bandwidth NVNT n20 2462MHz Ant0



-6dB Bandwidth NVNT n40 2422MHz Ant0



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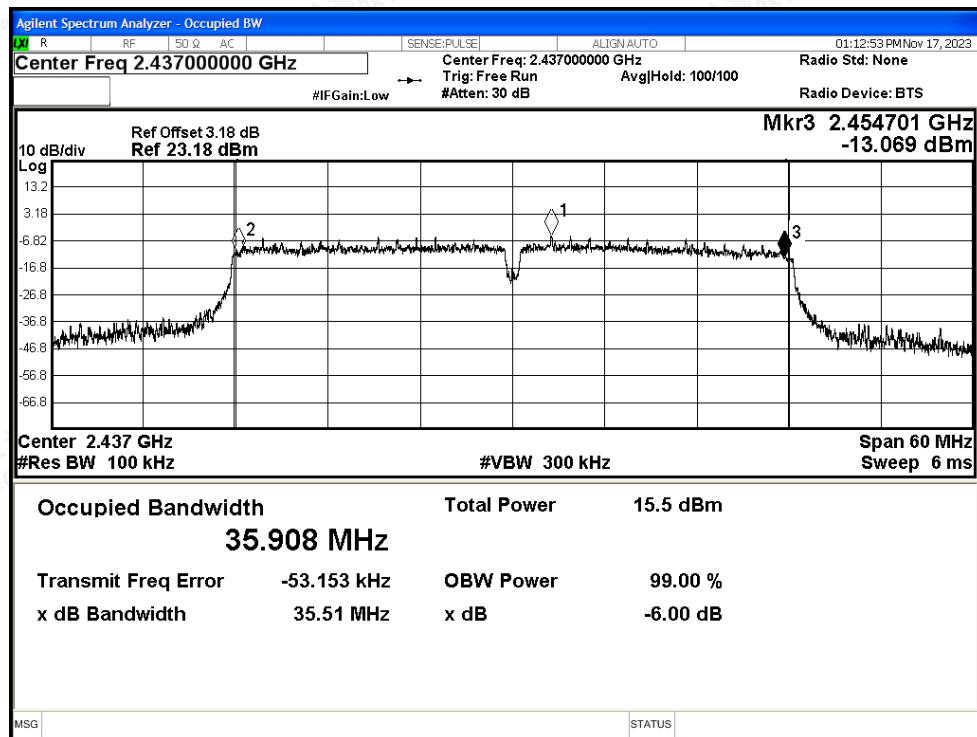
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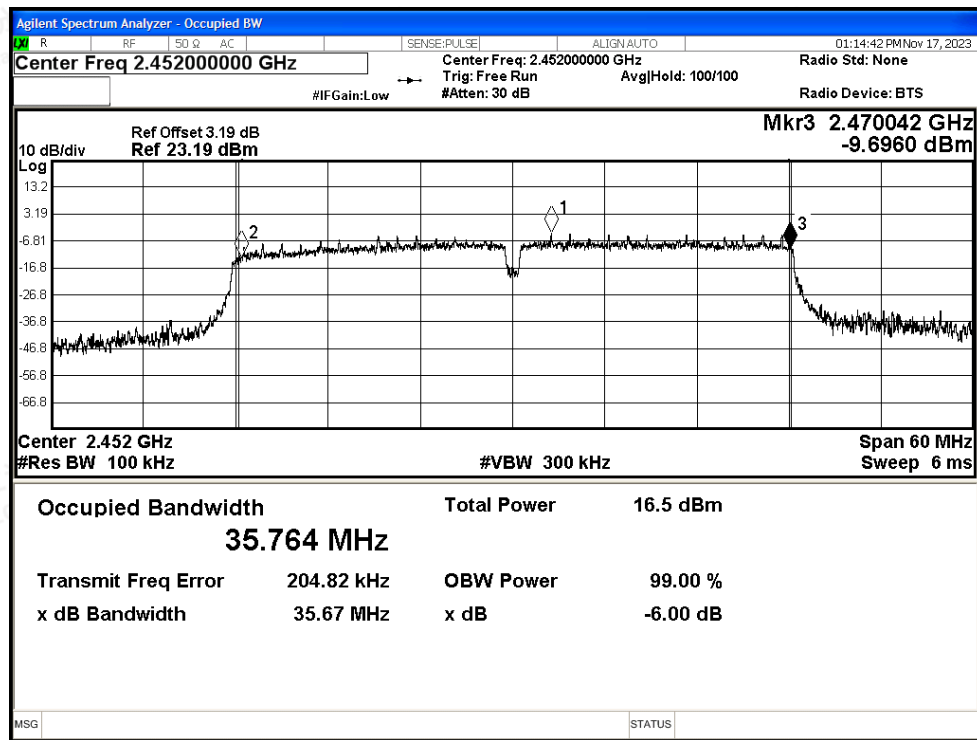
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-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0



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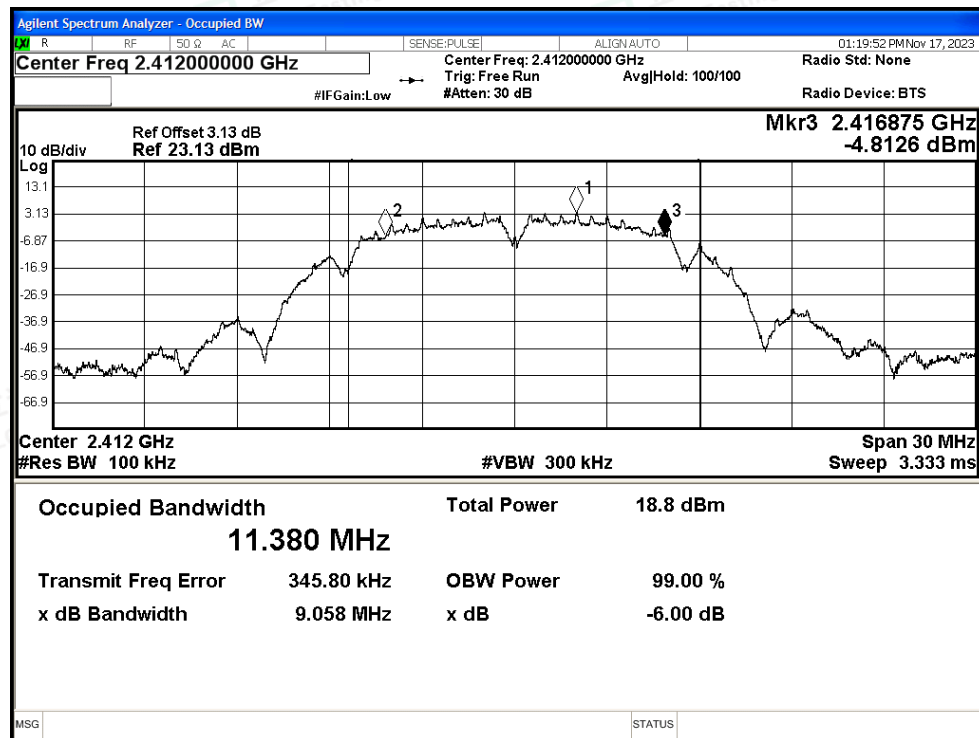
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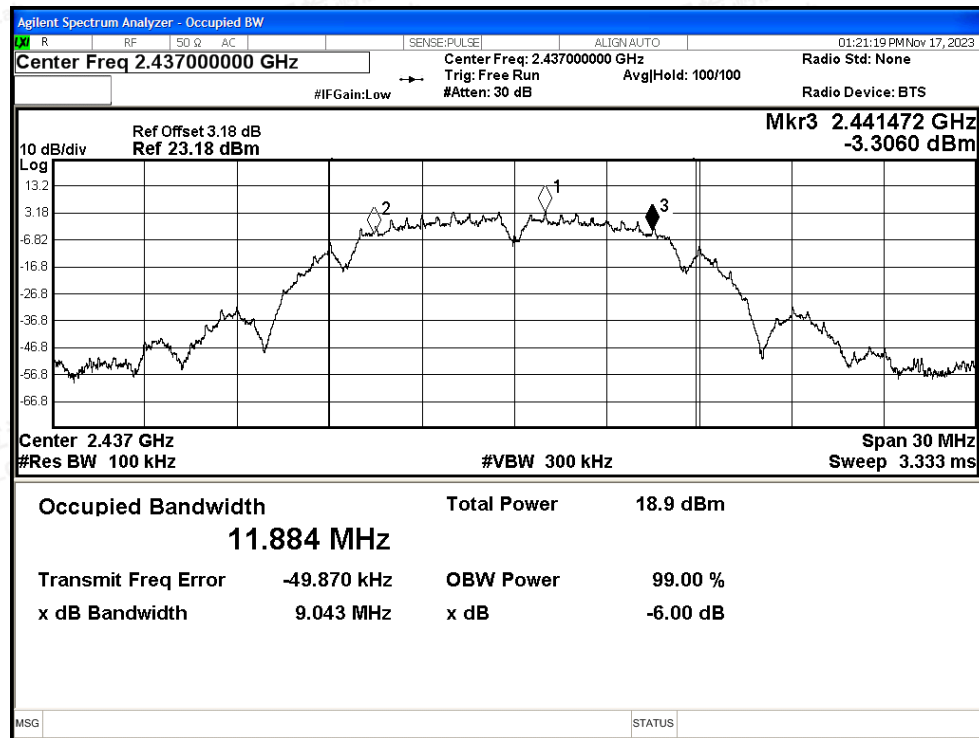


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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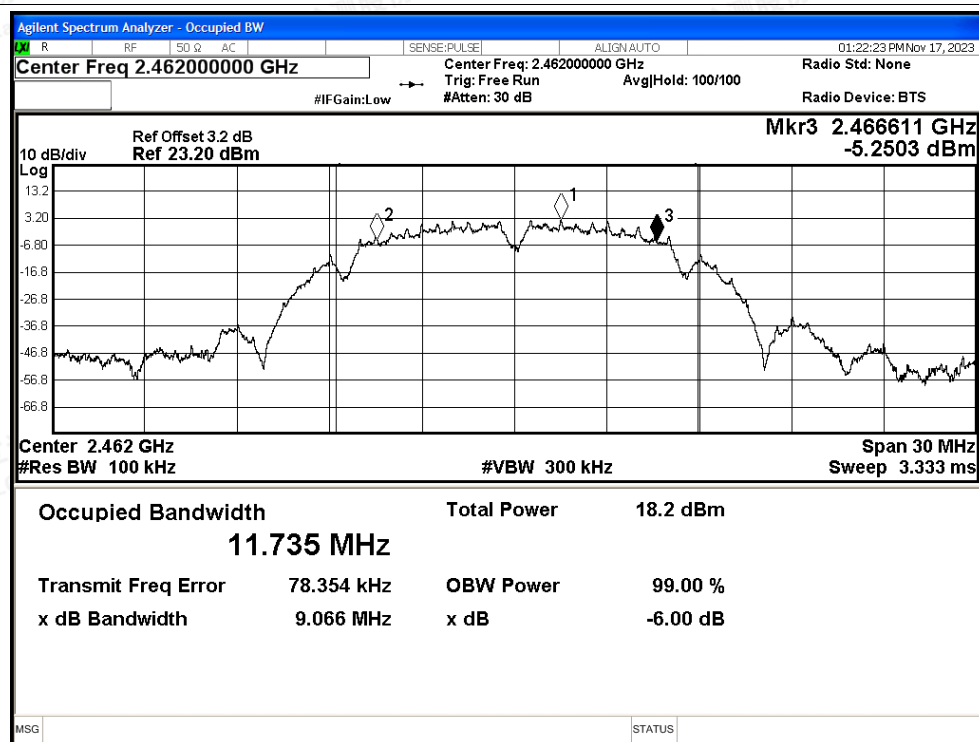
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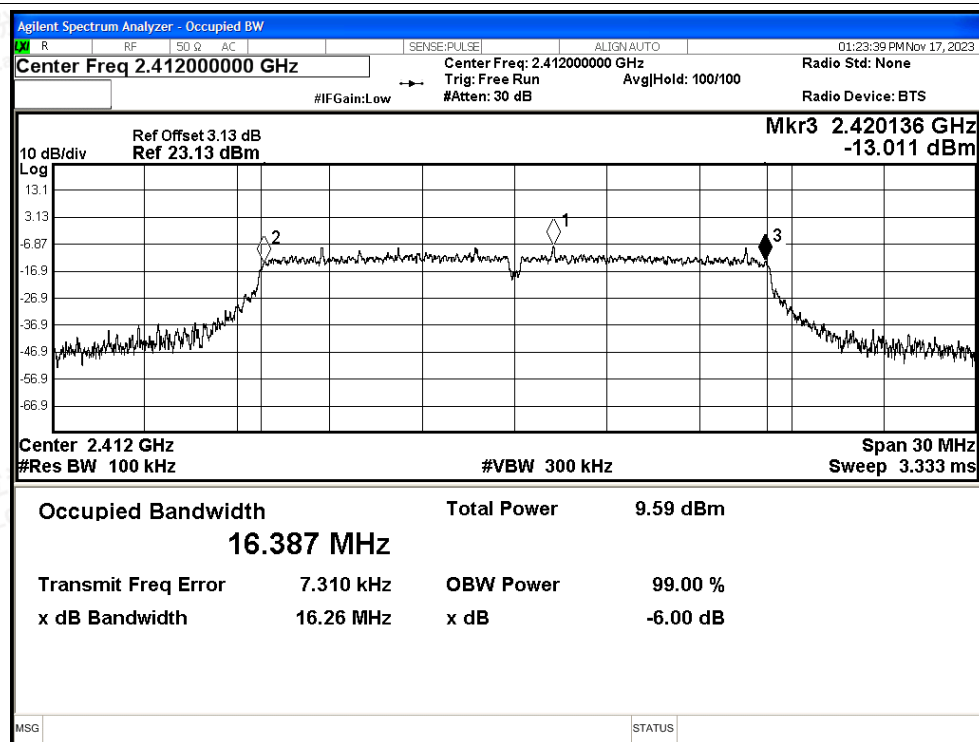
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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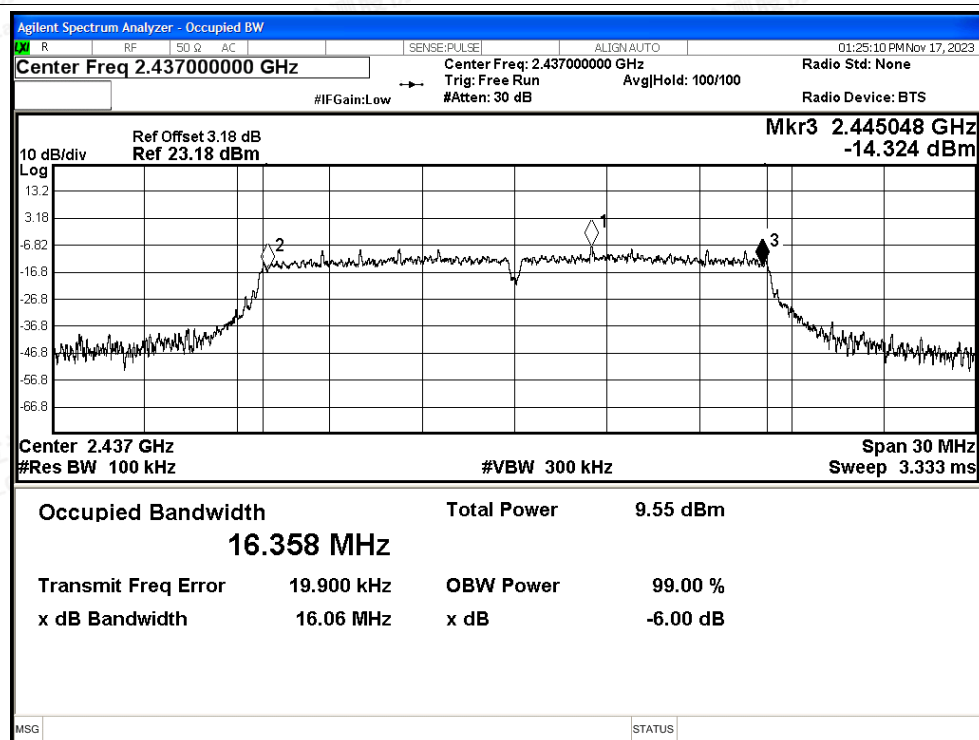
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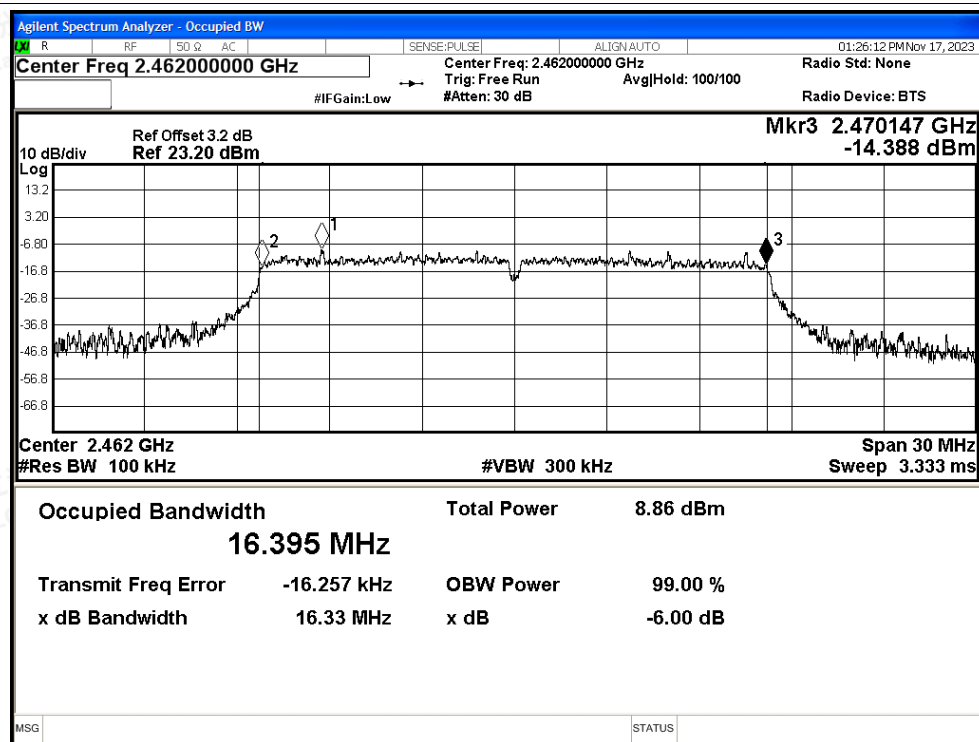
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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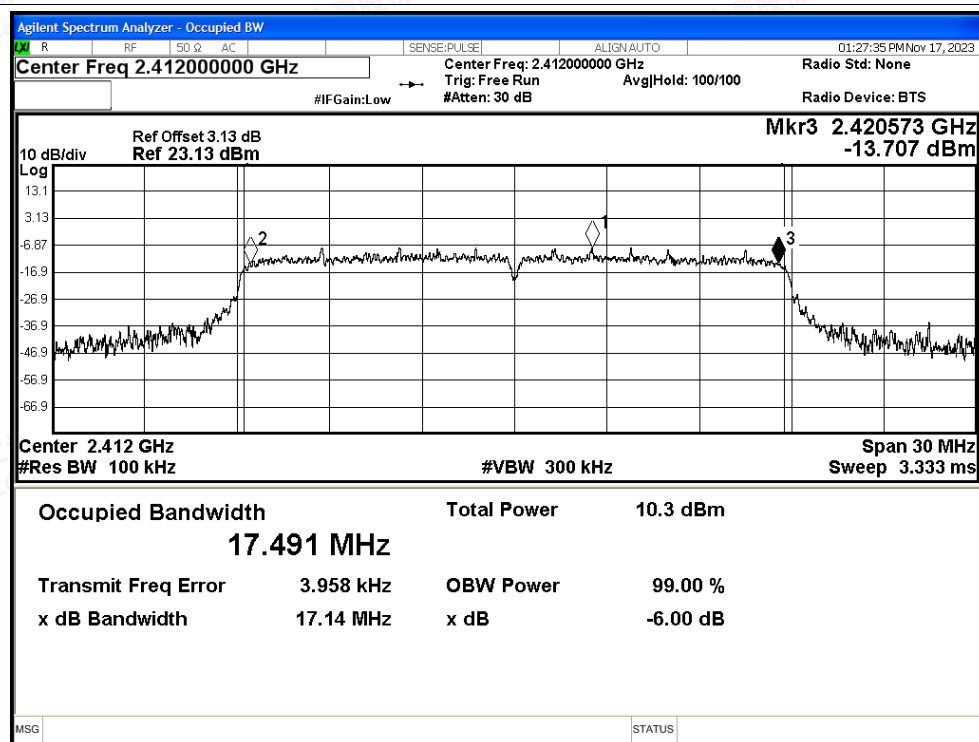
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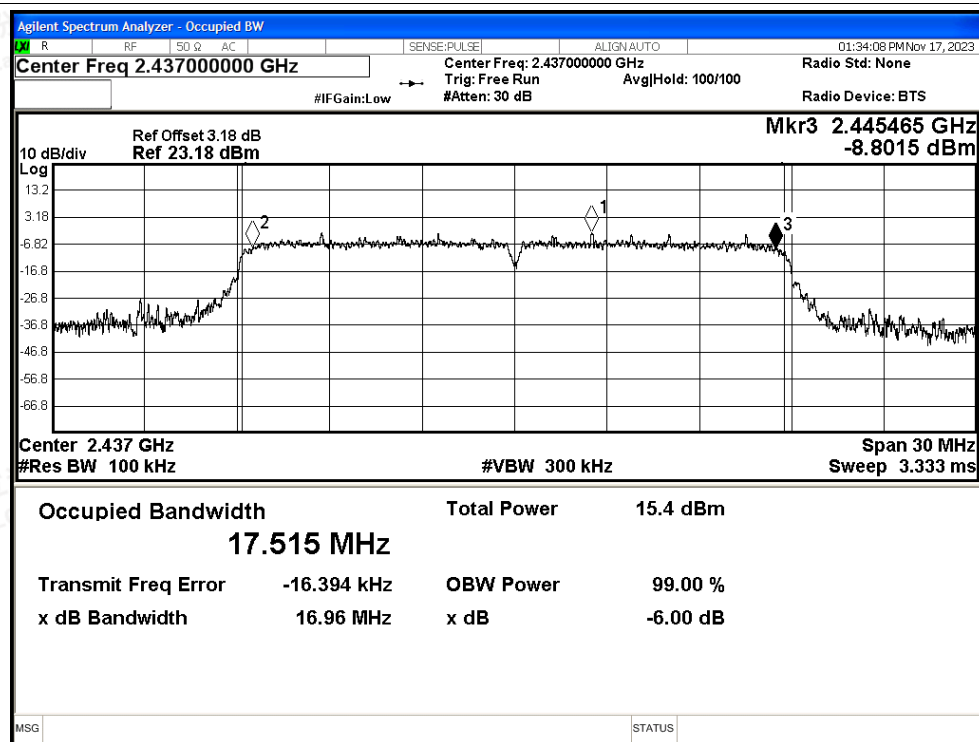
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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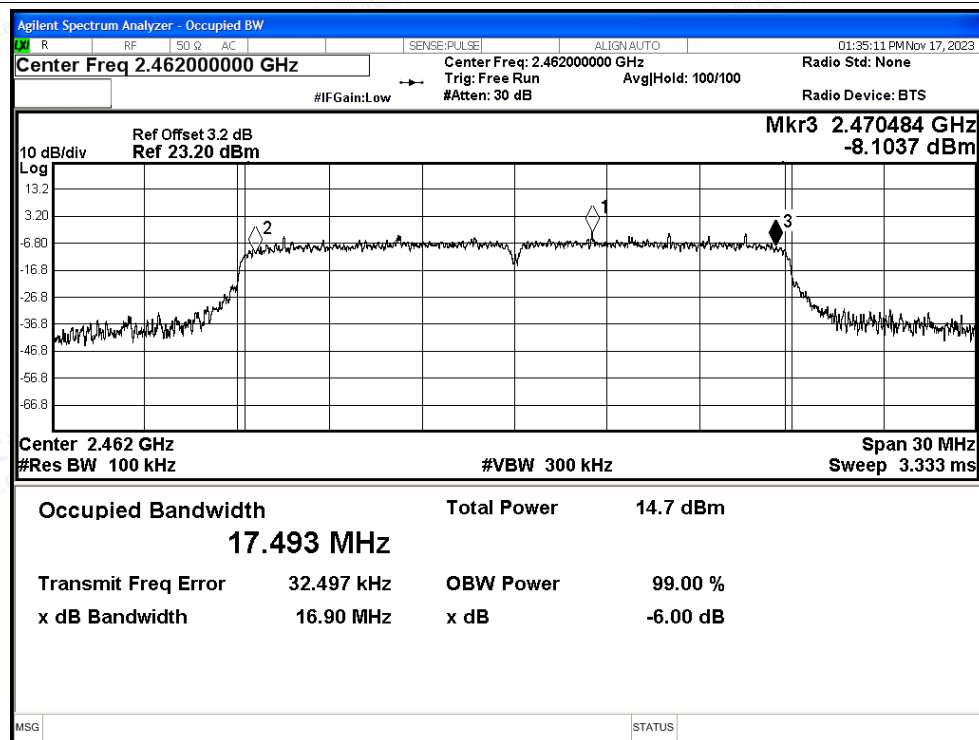
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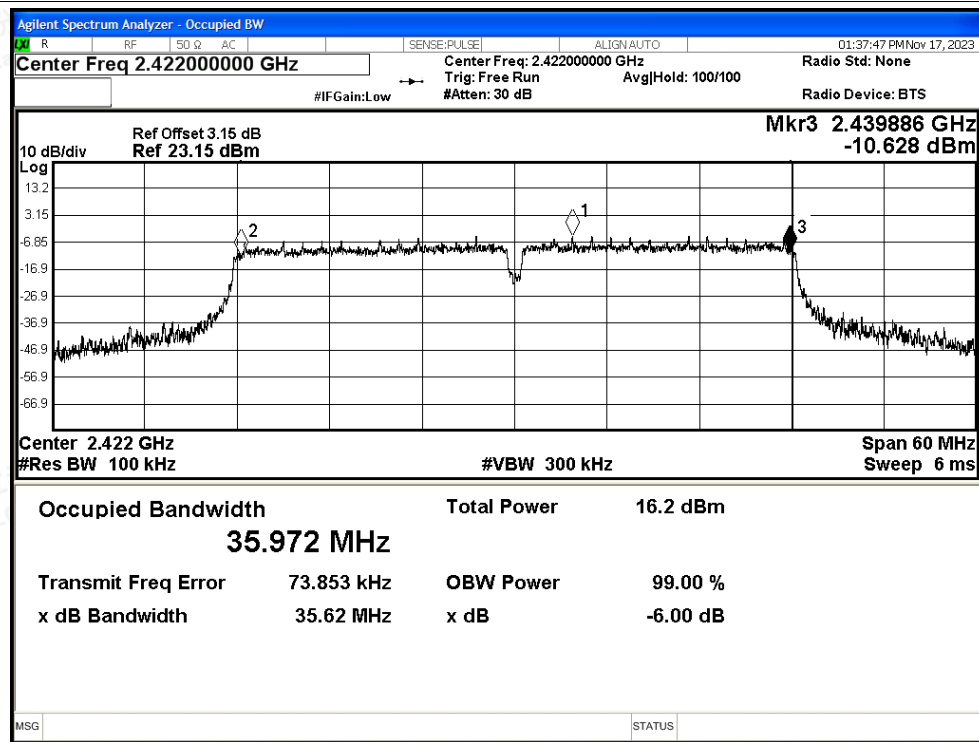
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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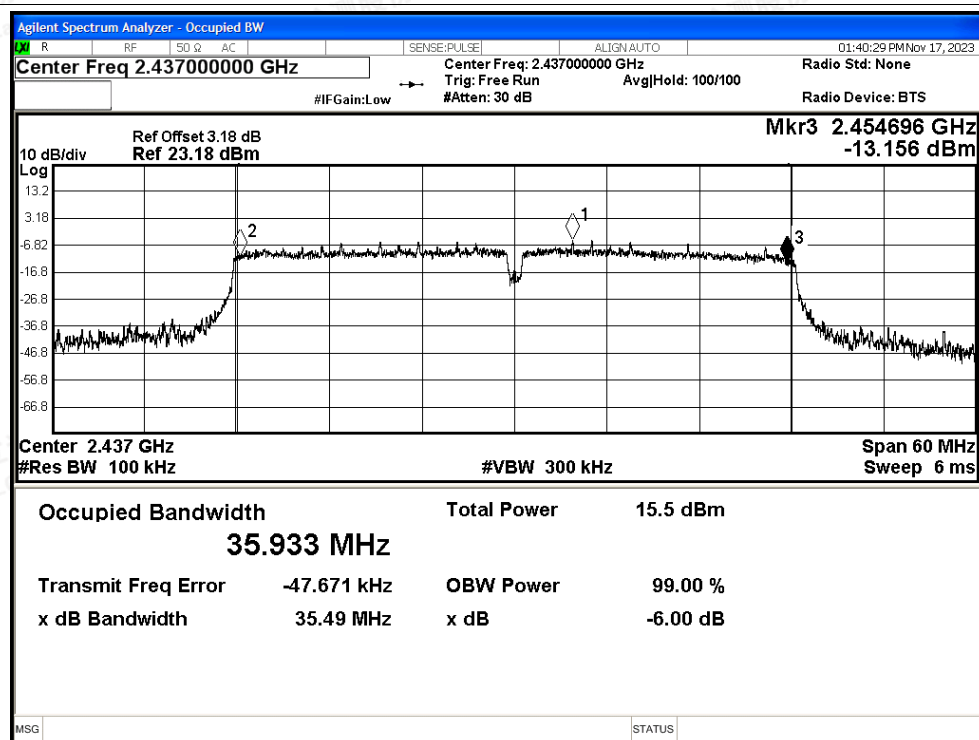
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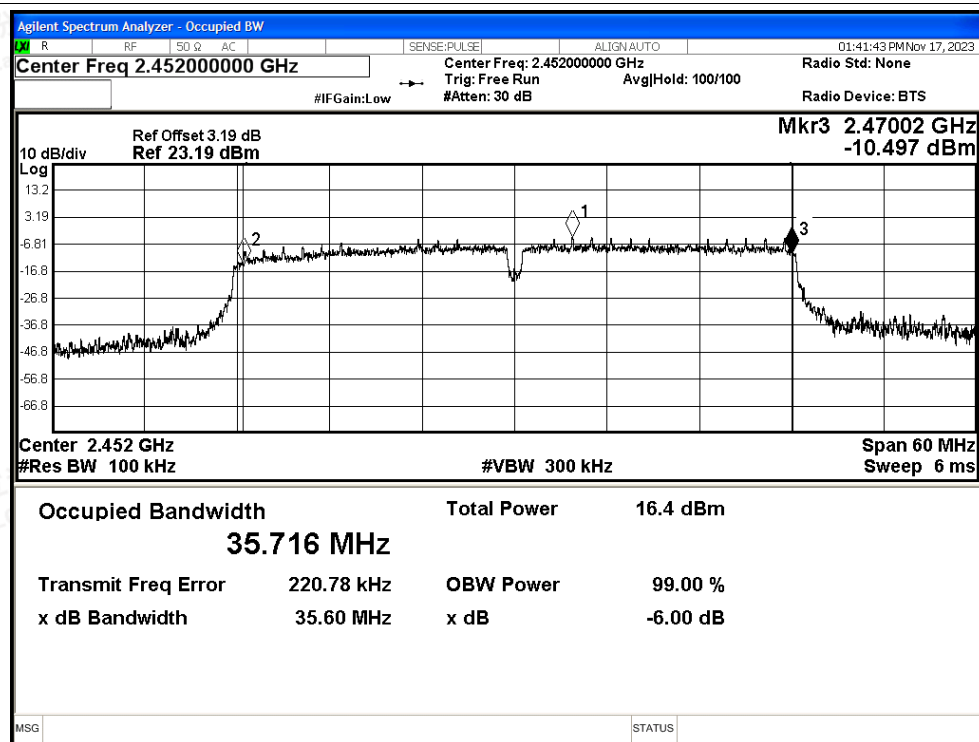
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant0	13.99	30	Pass
NVNT	b	2437	Ant0	13.98	30	Pass
NVNT	b	2462	Ant0	13.19	30	Pass
NVNT	g	2412	Ant0	13.58	30	Pass
NVNT	g	2437	Ant0	13.48	30	Pass
NVNT	g	2462	Ant0	12.81	30	Pass
NVNT	n20	2412	Ant0	14.05	30	Pass
NVNT	n20	2437	Ant0	13.98	30	Pass
NVNT	n20	2462	Ant0	13.22	30	Pass
NVNT	n40	2422	Ant0	14.53	30	Pass
NVNT	n40	2437	Ant0	13.91	30	Pass
NVNT	n40	2452	Ant0	14.88	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.85	30	Pass
NVNT	b	2437	Ant1	13.9	30	Pass
NVNT	b	2462	Ant1	13.24	30	Pass
NVNT	g	2412	Ant1	12.6	30	Pass
NVNT	g	2437	Ant1	12.36	30	Pass
NVNT	g	2462	Ant1	12.74	30	Pass
NVNT	n20	2412	Ant1	12.43	30	Pass
NVNT	n20	2437	Ant1	14	30	Pass
NVNT	n20	2462	Ant1	13.26	30	Pass
NVNT	n40	2422	Ant1	14.55	30	Pass
NVNT	n40	2437	Ant1	13.88	30	Pass
NVNT	n40	2452	Ant1	14.73	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	14.05	12.43	16.33	30	Pass
NVNT	n20	2437	13.98	14	17.00	30	Pass
NVNT	n20	2462	13.22	13.26	16.25	30	Pass
NVNT	n40	2422	14.53	14.55	17.55	30	Pass
NVNT	n40	2437	13.91	13.88	16.91	30	Pass
NVNT	n40	2452	14.88	14.73	17.82	30	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-7.31	8	Pass
NVNT	b	2437	Ant0	-9.12	8	Pass
NVNT	b	2462	Ant0	-9.56	8	Pass
NVNT	g	2412	Ant0	-15.97	8	Pass
NVNT	g	2437	Ant0	-17.08	8	Pass
NVNT	g	2462	Ant0	-17.74	8	Pass
NVNT	n20	2412	Ant0	-16.31	8	Pass
NVNT	n20	2437	Ant0	-15.98	8	Pass
NVNT	n20	2462	Ant0	-17.57	8	Pass
NVNT	n40	2422	Ant0	-18.38	8	Pass
NVNT	n40	2437	Ant0	-19.22	8	Pass
NVNT	n40	2452	Ant0	-18.42	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.79	8	Pass
NVNT	b	2437	Ant1	-9.82	8	Pass
NVNT	b	2462	Ant1	-11.35	8	Pass
NVNT	g	2412	Ant1	-17.69	8	Pass
NVNT	g	2437	Ant1	-17.88	8	Pass
NVNT	g	2462	Ant1	-17.23	8	Pass
NVNT	n20	2412	Ant1	-18.77	8	Pass
NVNT	n20	2437	Ant1	-16.42	8	Pass
NVNT	n20	2462	Ant1	-16.37	8	Pass
NVNT	n40	2422	Ant1	-18.18	8	Pass
NVNT	n40	2437	Ant1	-20.21	8	Pass
NVNT	n40	2452	Ant1	-18.35	8	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-16.31	-18.77	-14.36	8	Pass
NVNT	n20	2437	-15.98	-16.42	-13.18	8	Pass
NVNT	n20	2462	-17.57	-16.37	-13.92	8	Pass
NVNT	n40	2422	-18.38	-18.18	-15.27	8	Pass
NVNT	n40	2437	-19.22	-20.21	-16.68	8	Pass
NVNT	n40	2452	-18.42	-18.35	-15.37	8	Pass



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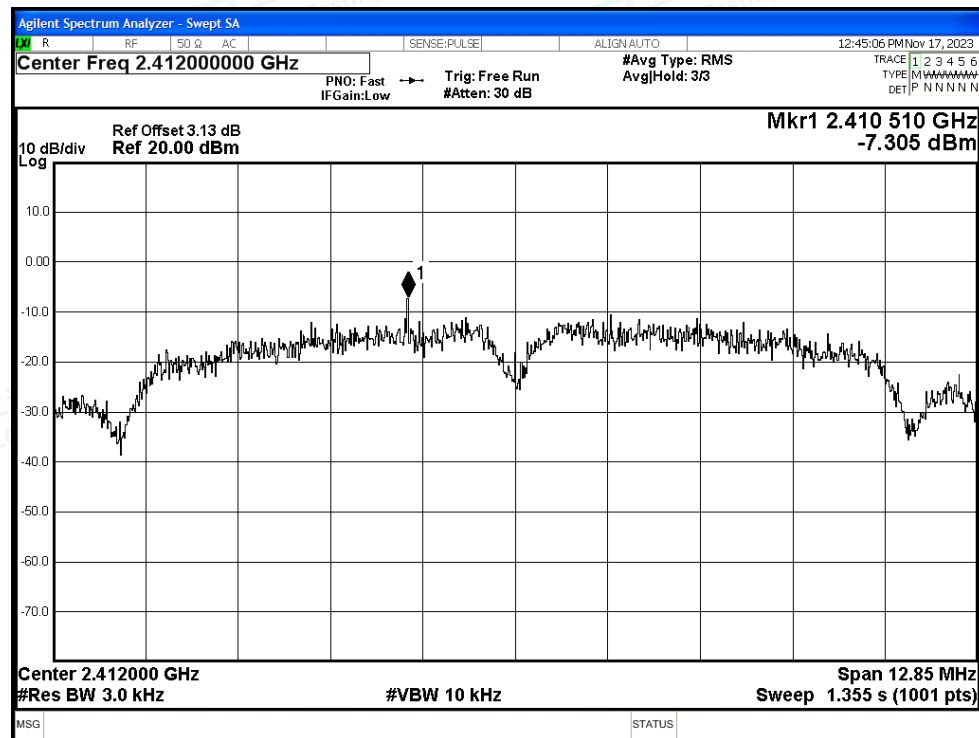
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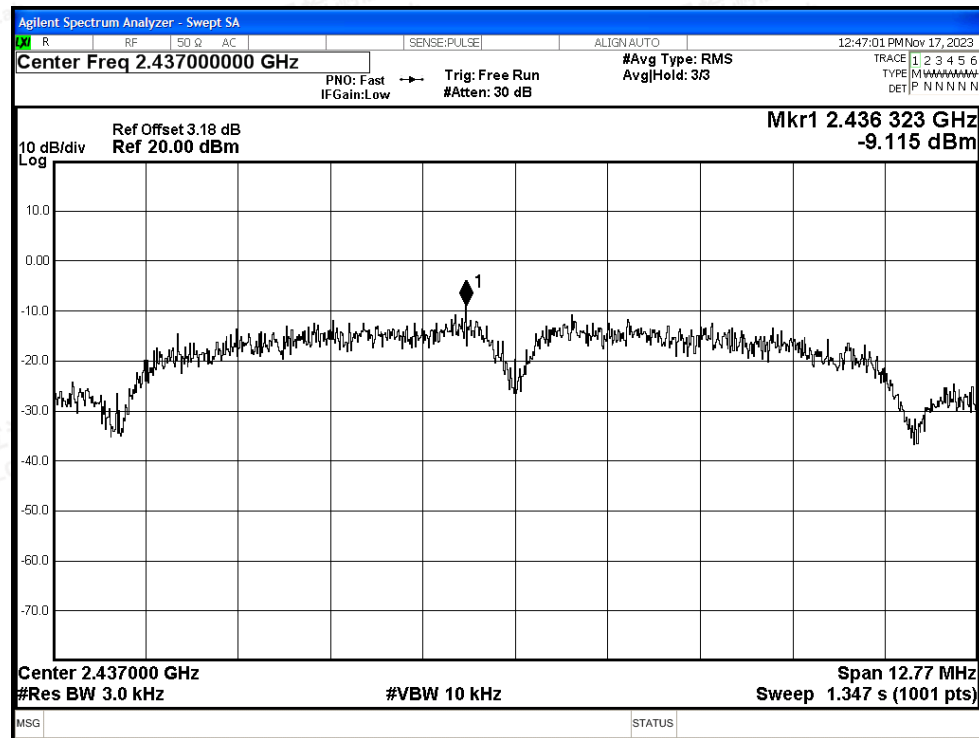


Test Graphs

PSD NVNT b 2412MHz Ant0



PSD NVNT b 2437MHz Ant0

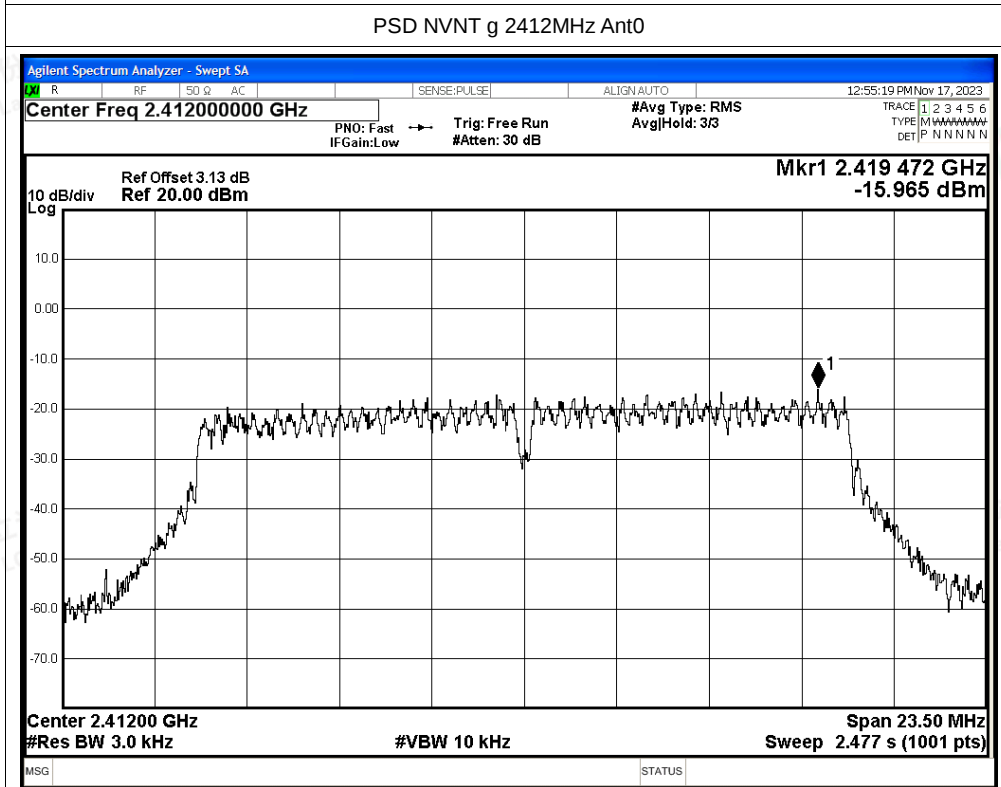
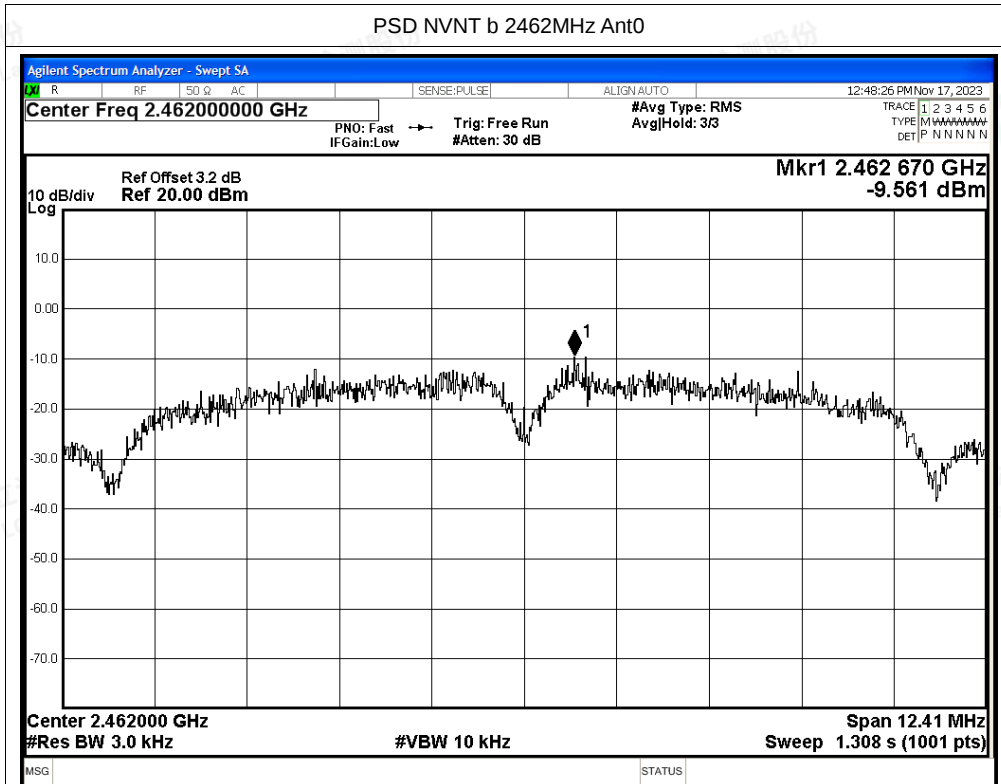


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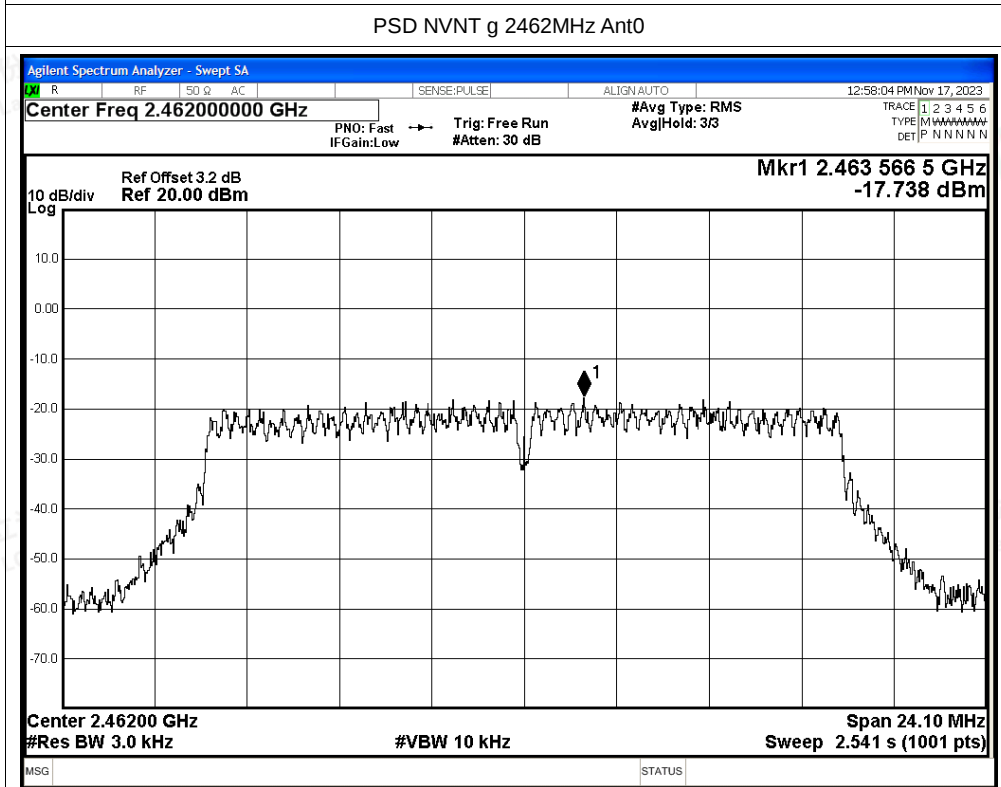
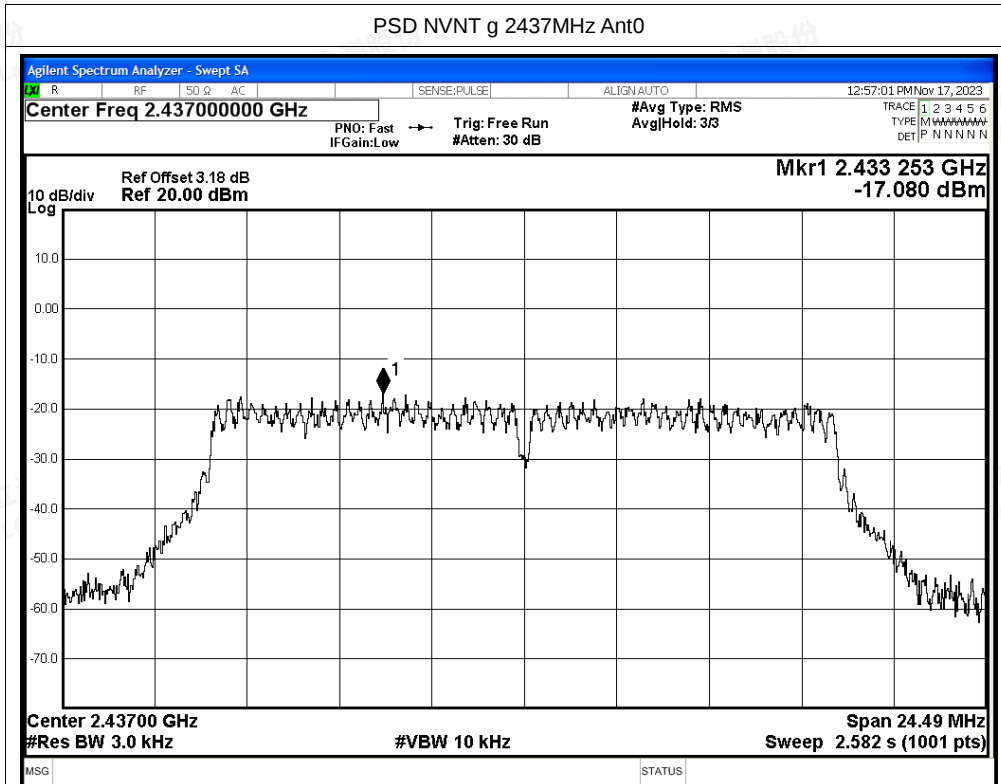


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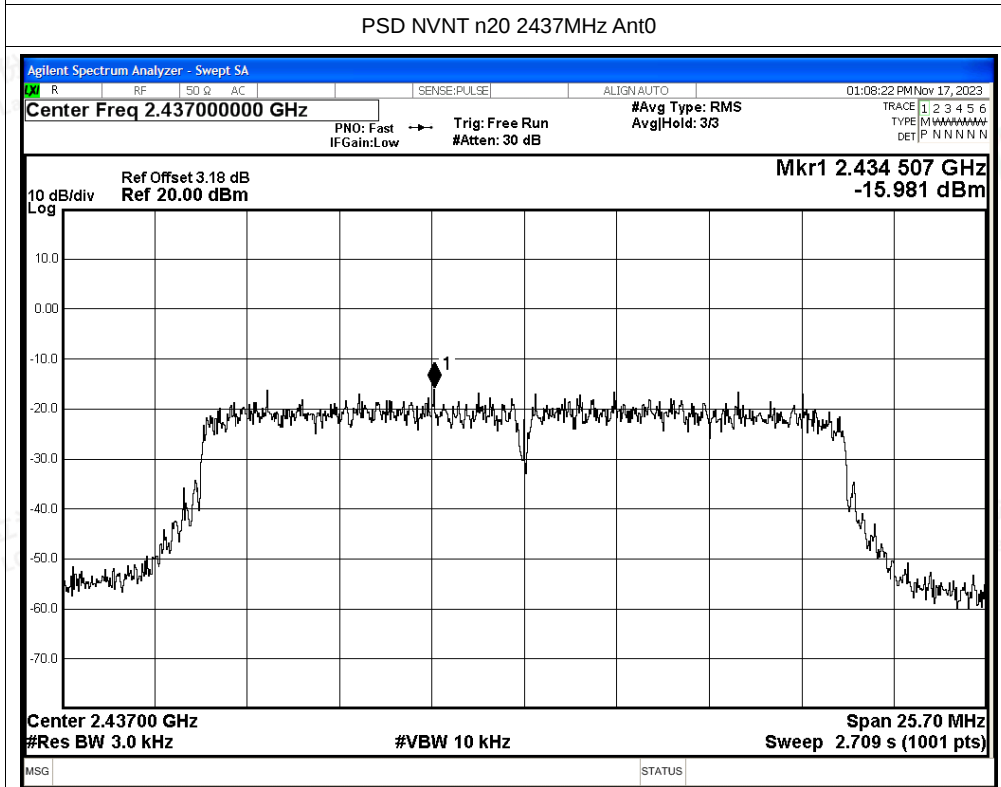
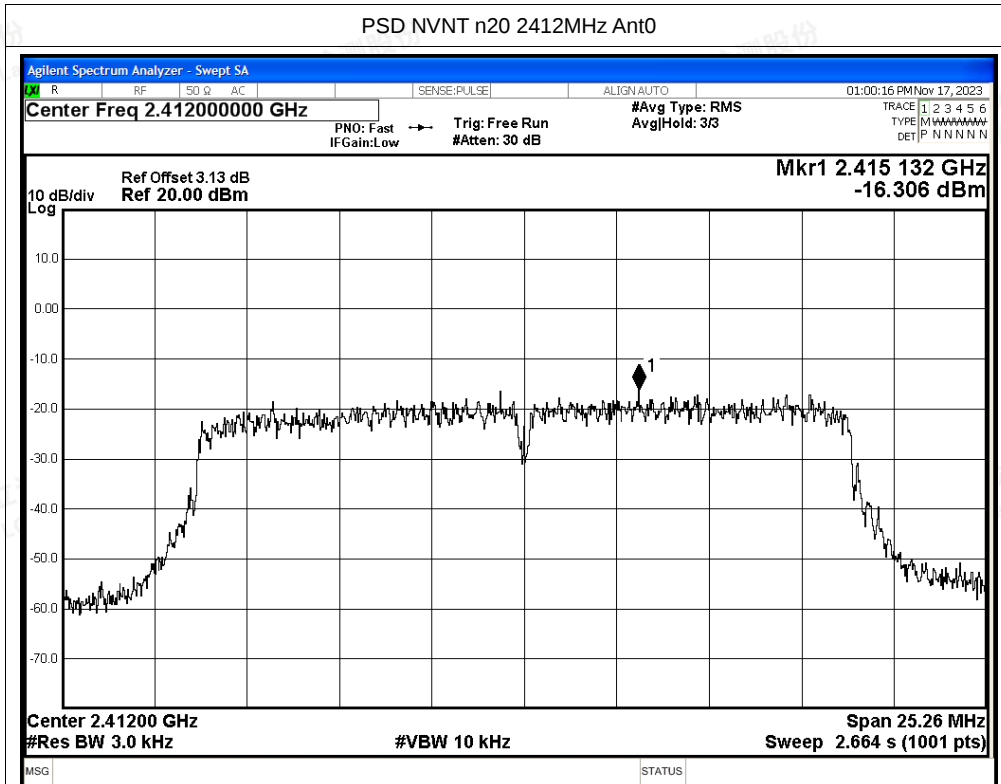


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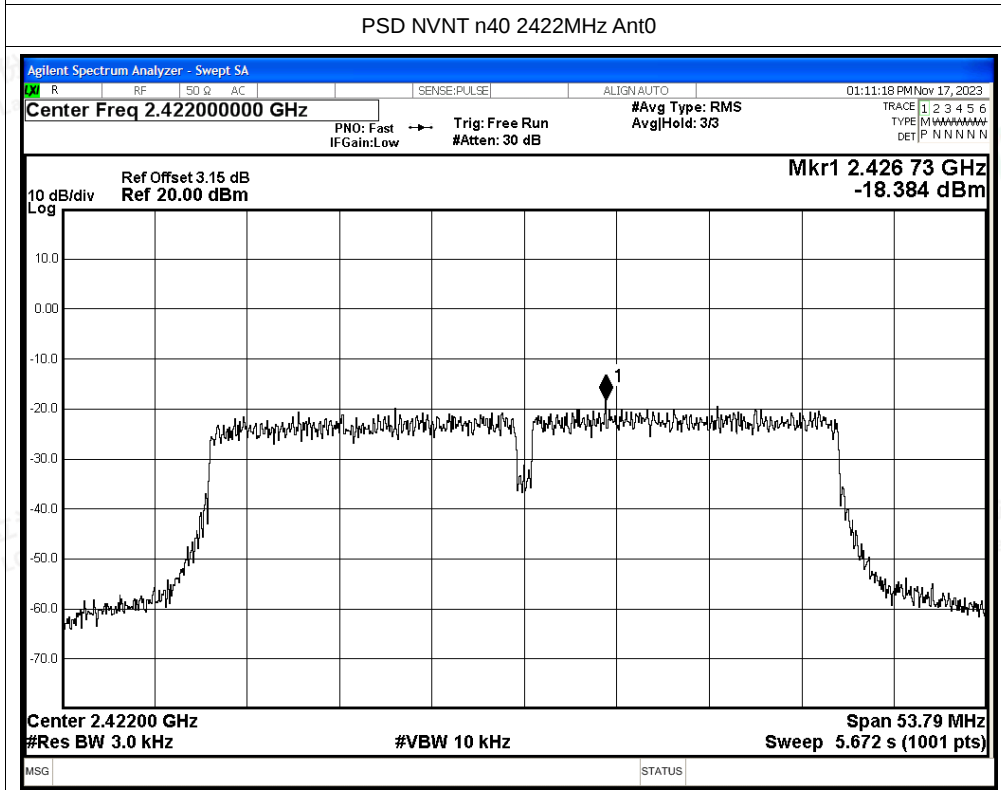
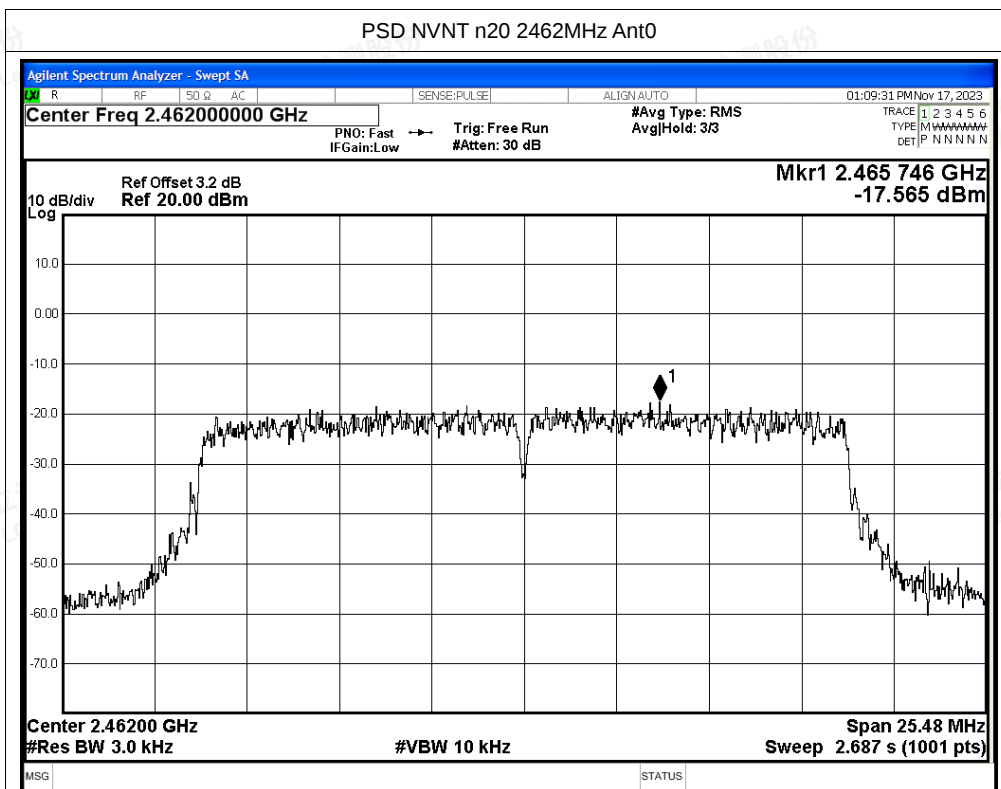


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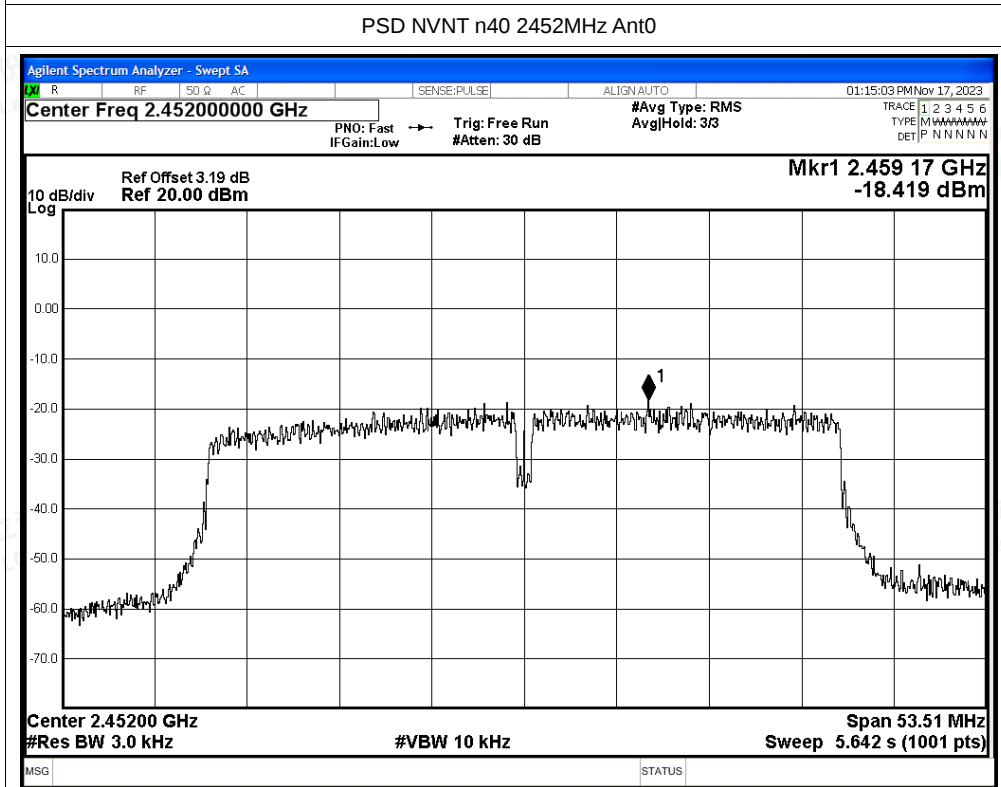
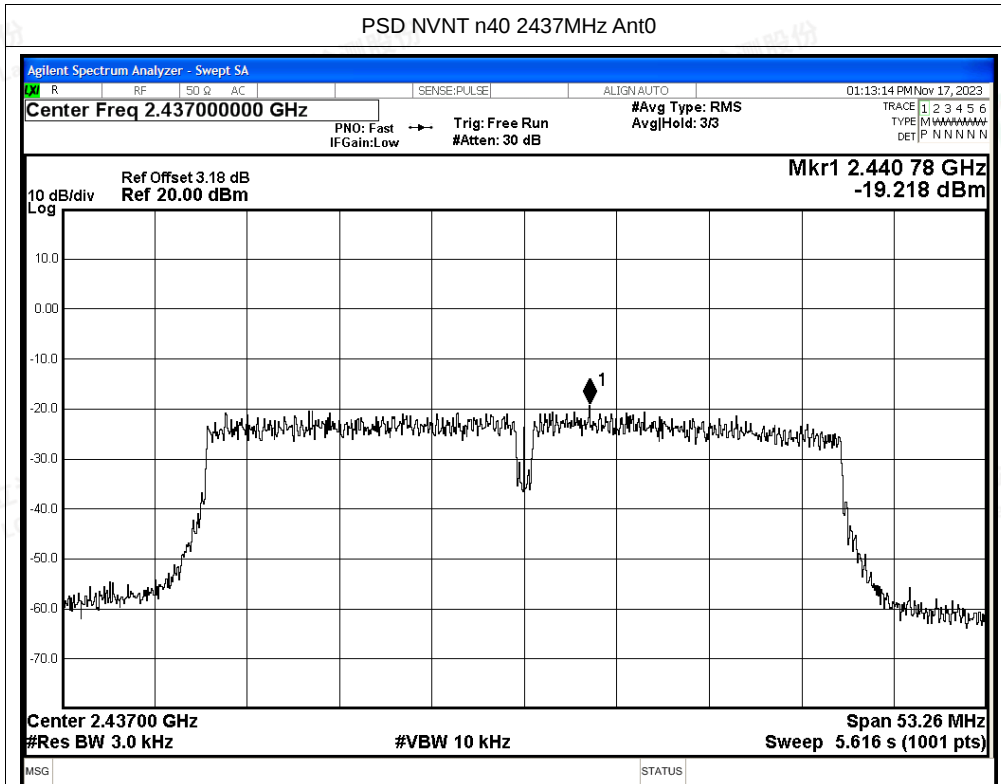


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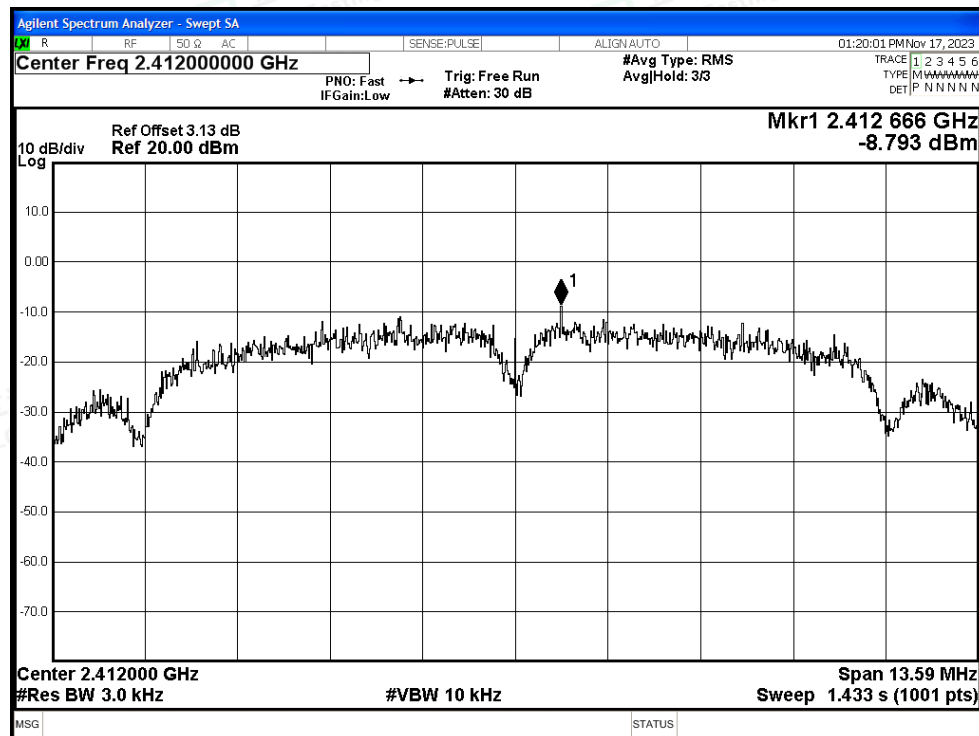
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

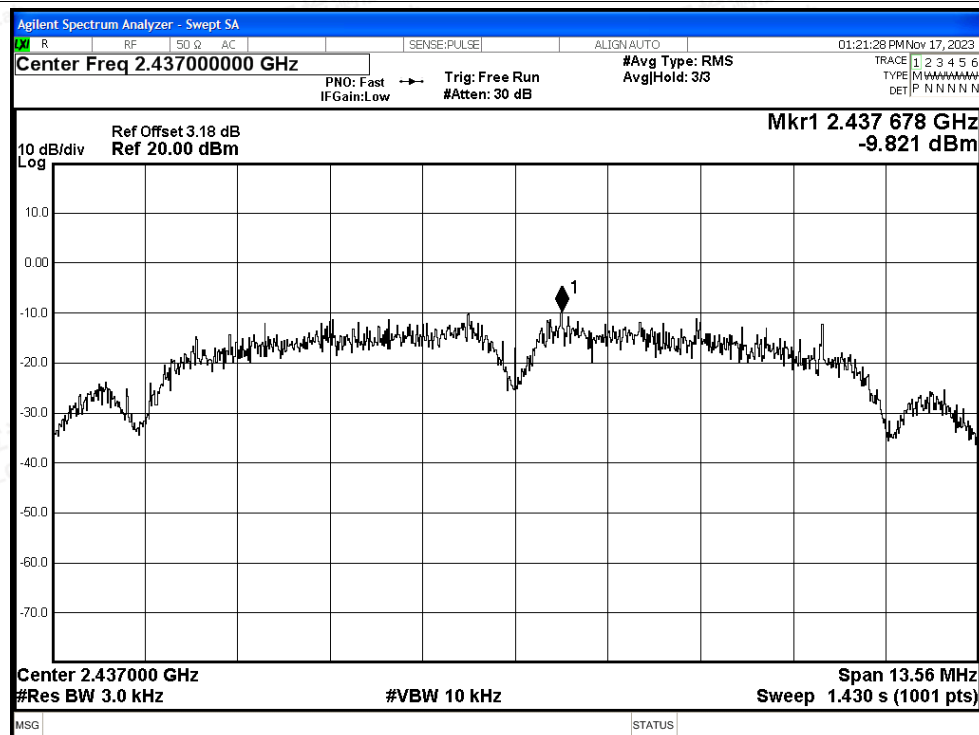


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

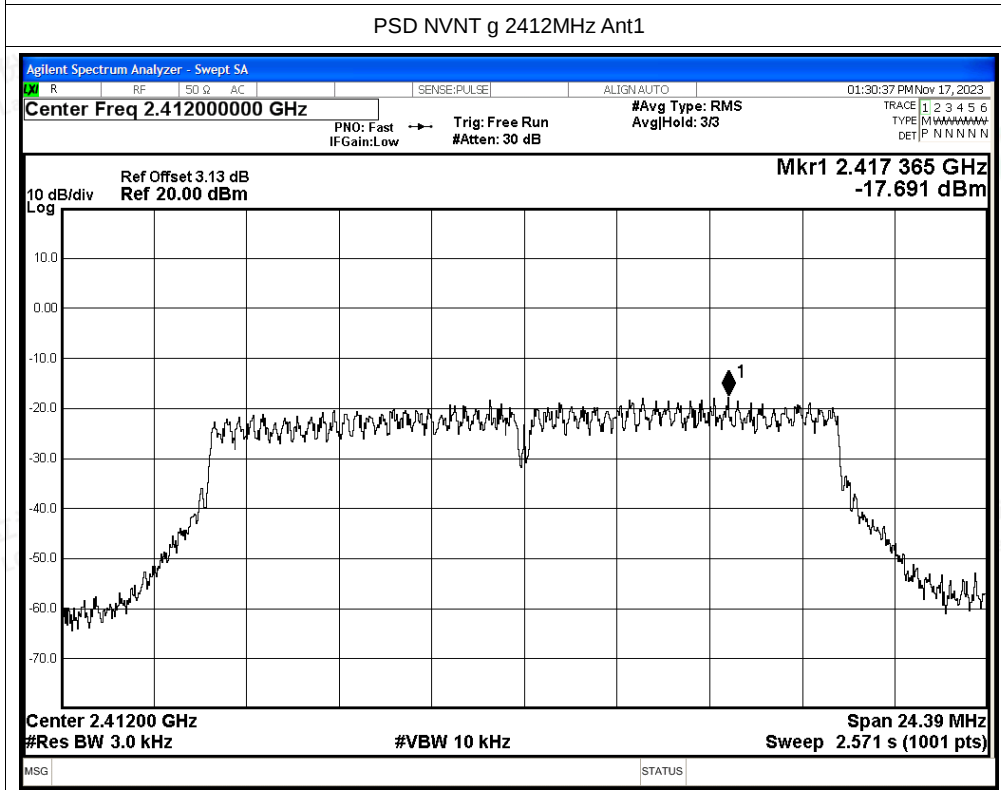
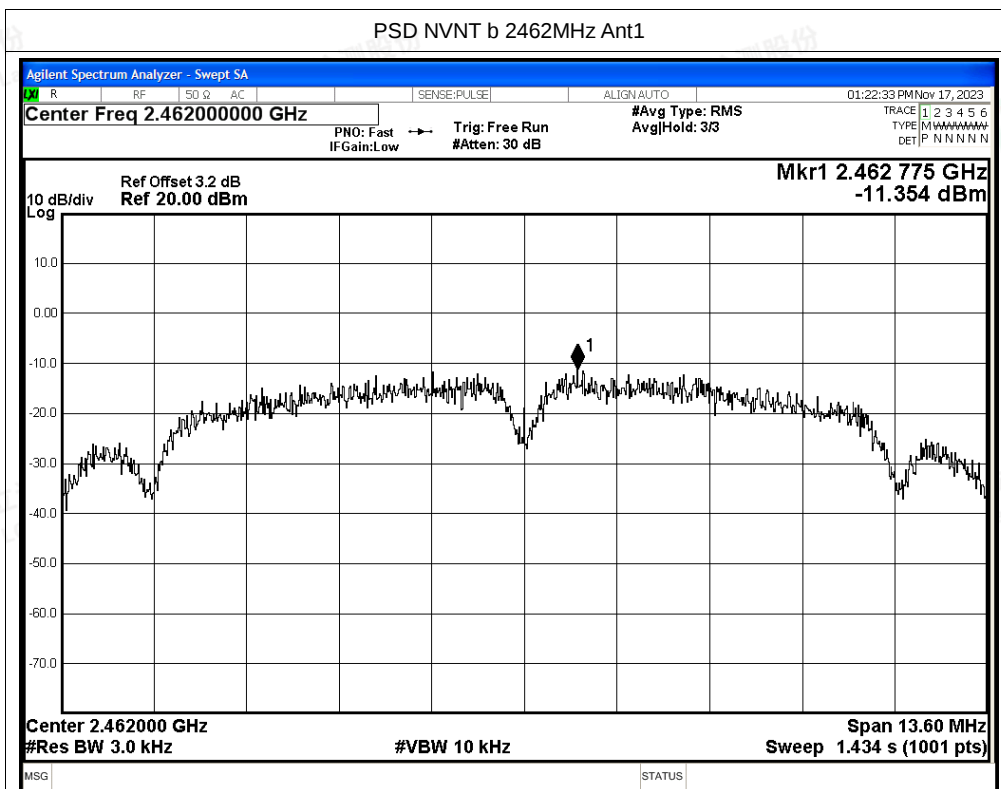


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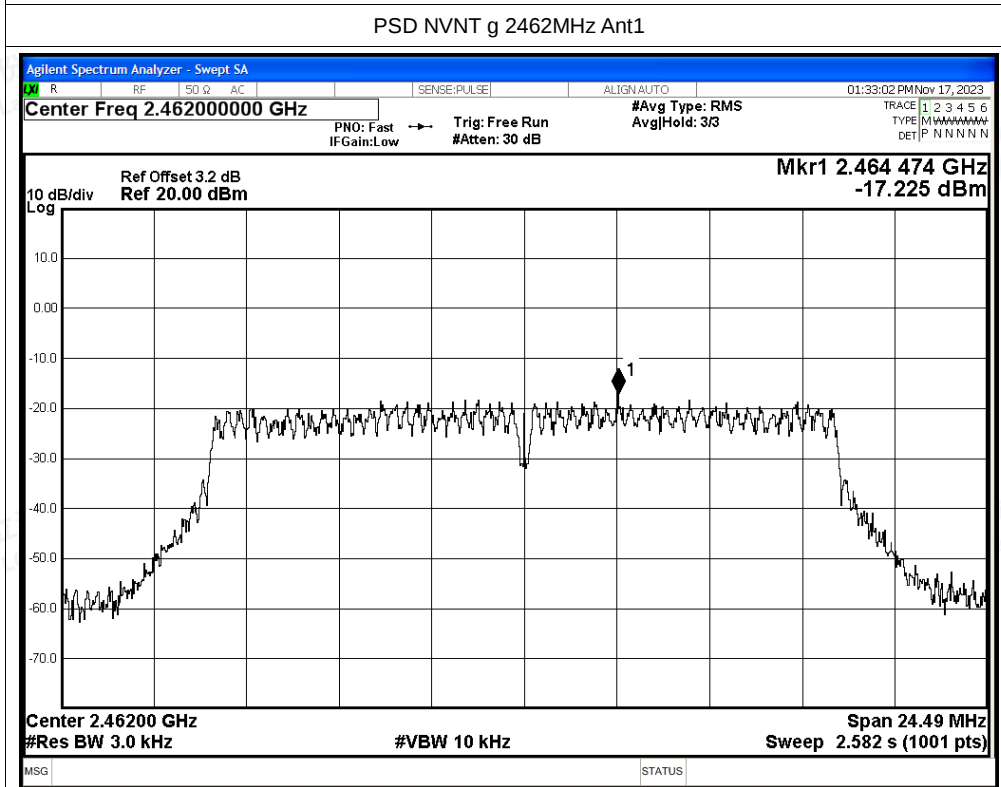
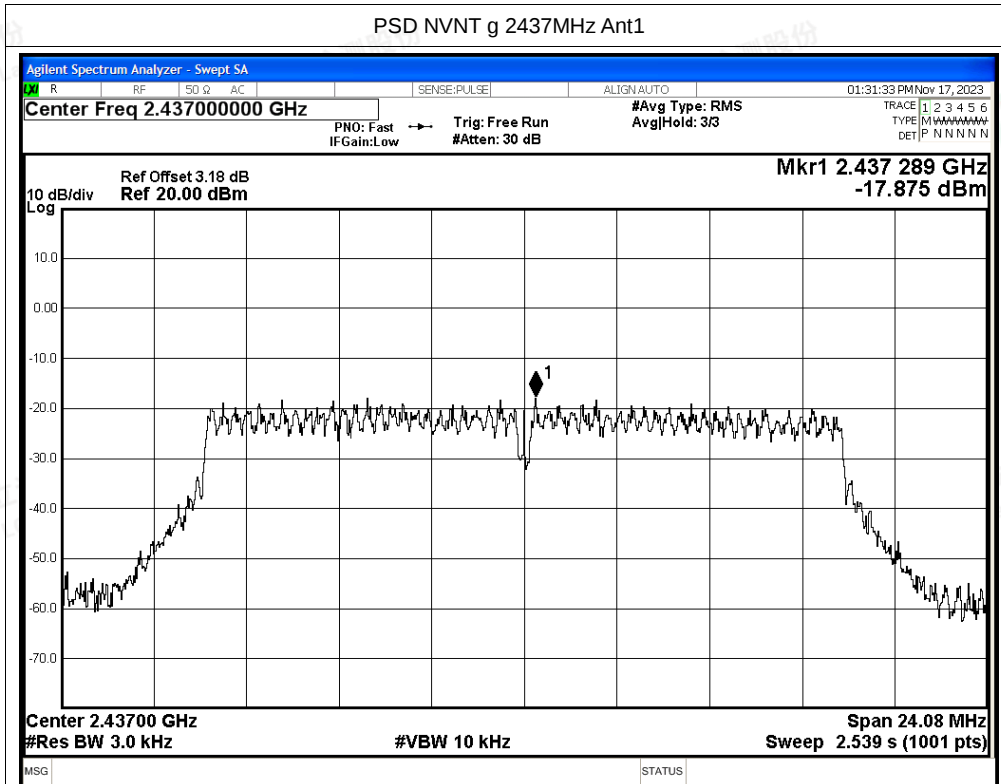


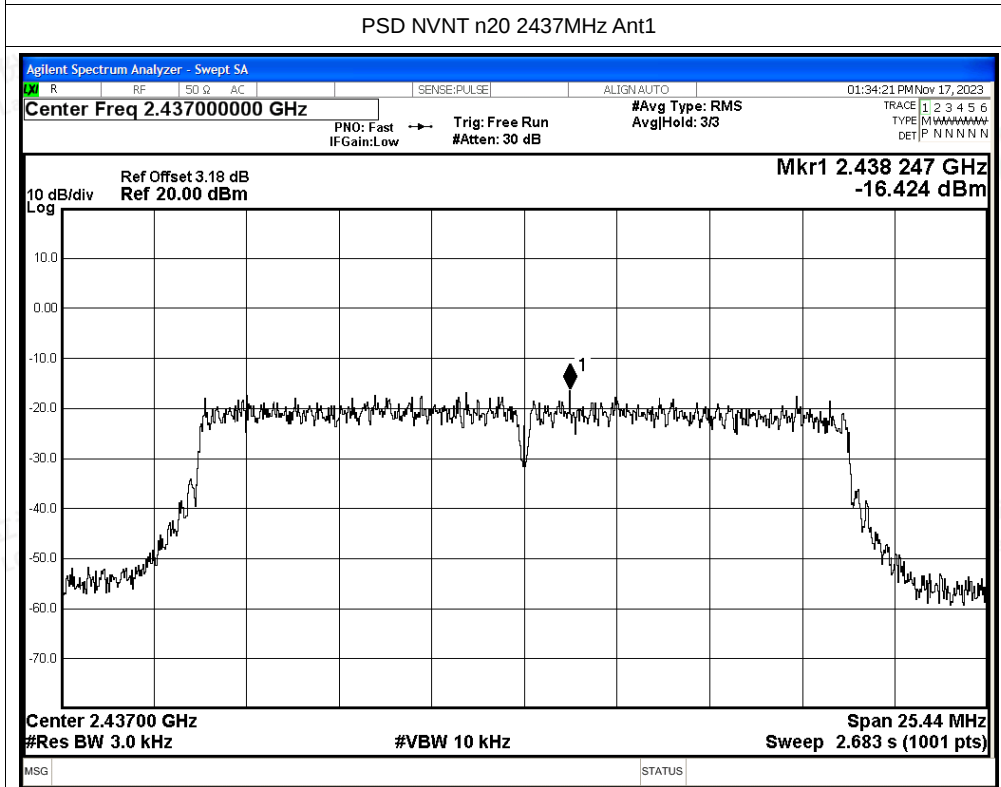
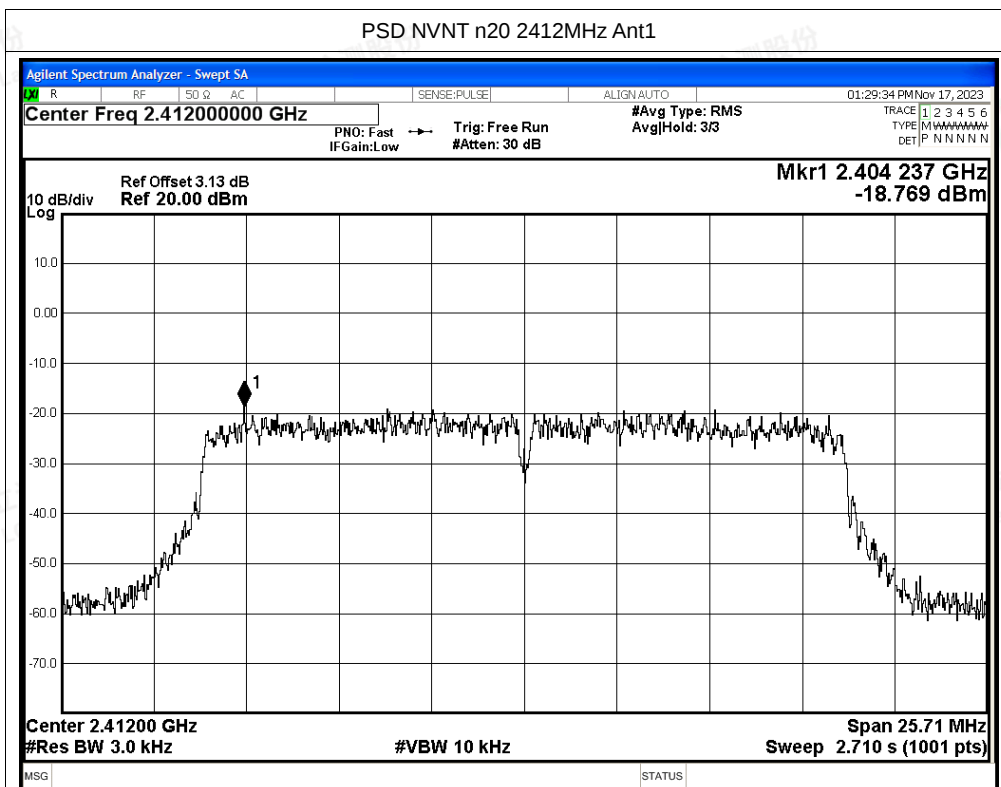
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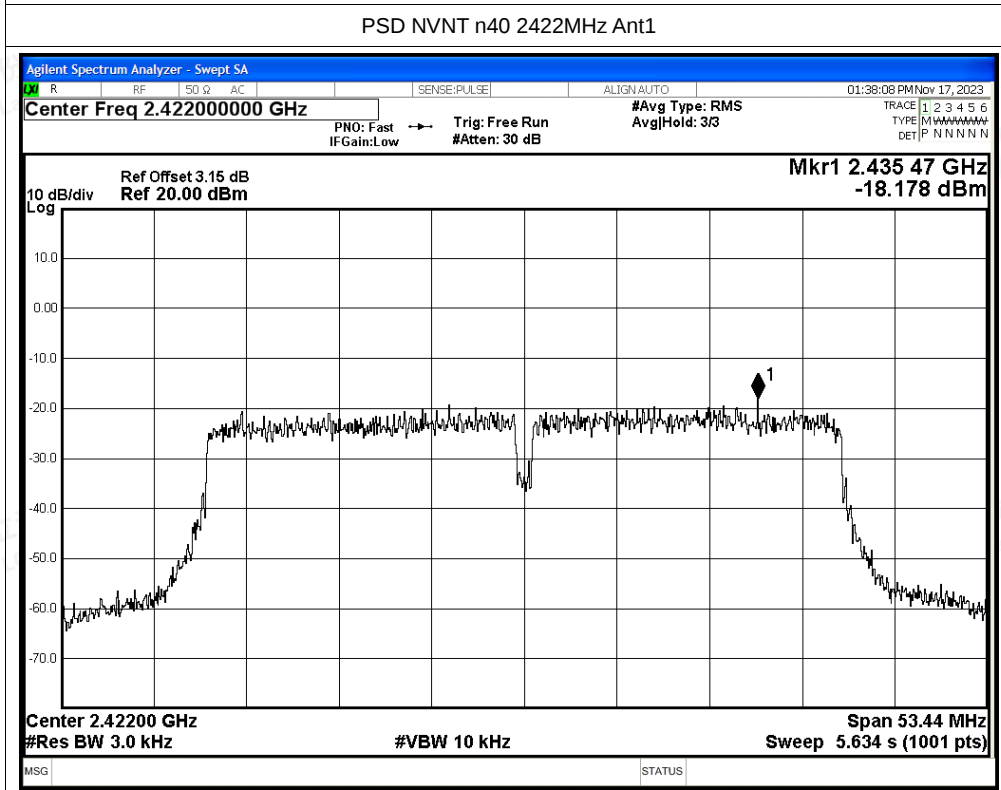
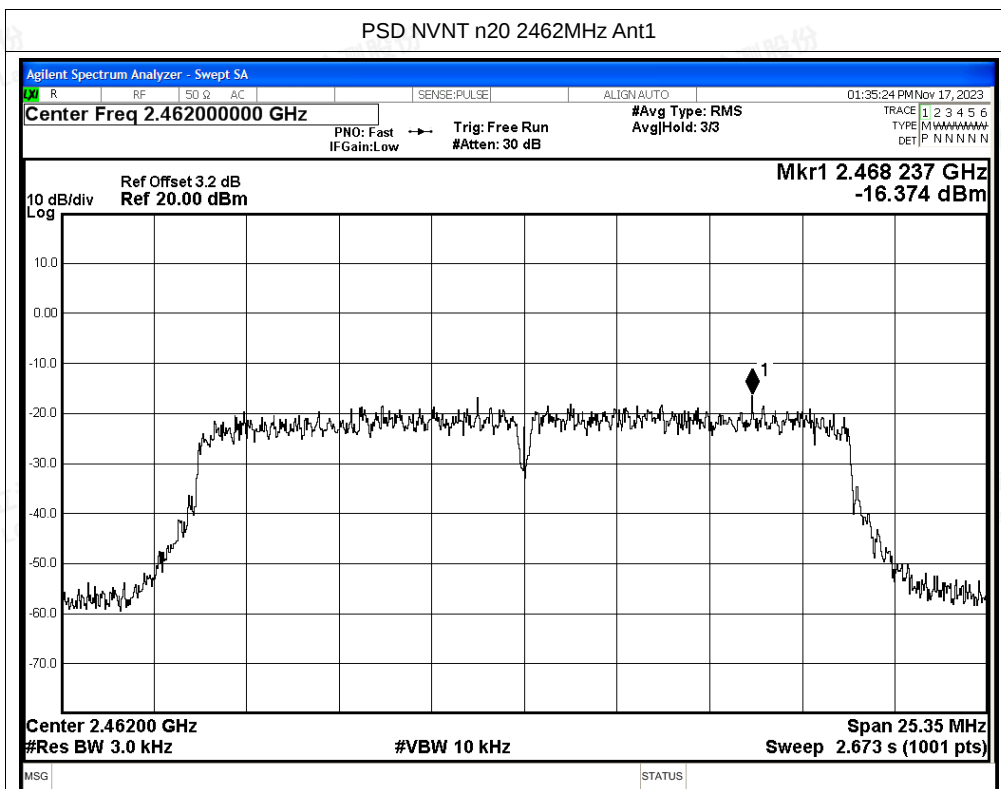


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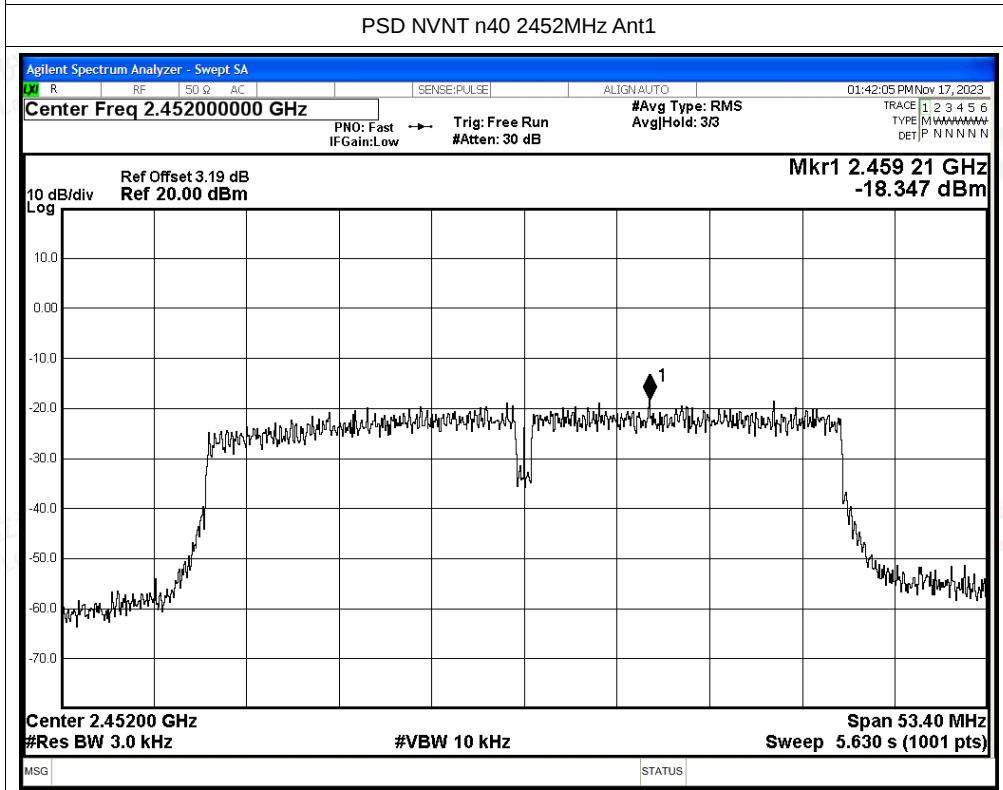
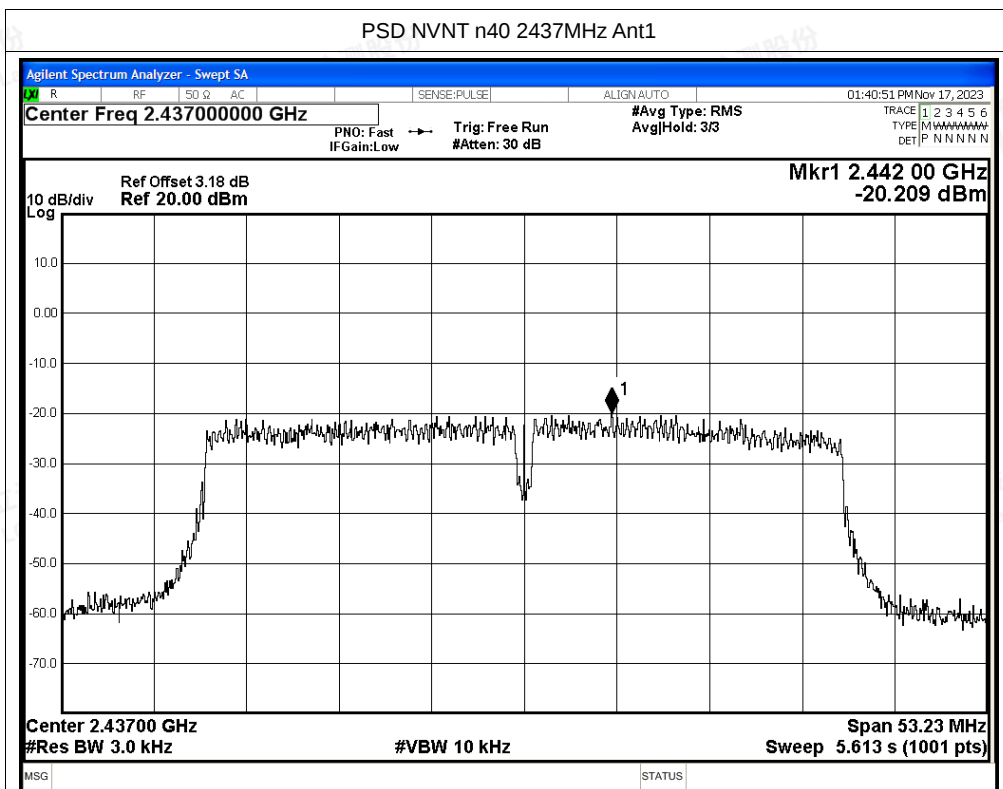


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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-52.8	-20	Pass
NVNT	b	2462	Ant0	-55.09	-20	Pass
NVNT	g	2412	Ant0	-34.55	-20	Pass
NVNT	g	2462	Ant0	-42.59	-20	Pass
NVNT	n20	2412	Ant0	-32.75	-20	Pass
NVNT	n20	2462	Ant0	-41.76	-20	Pass
NVNT	n40	2422	Ant0	-33.04	-20	Pass
NVNT	n40	2452	Ant0	-34.52	-20	Pass



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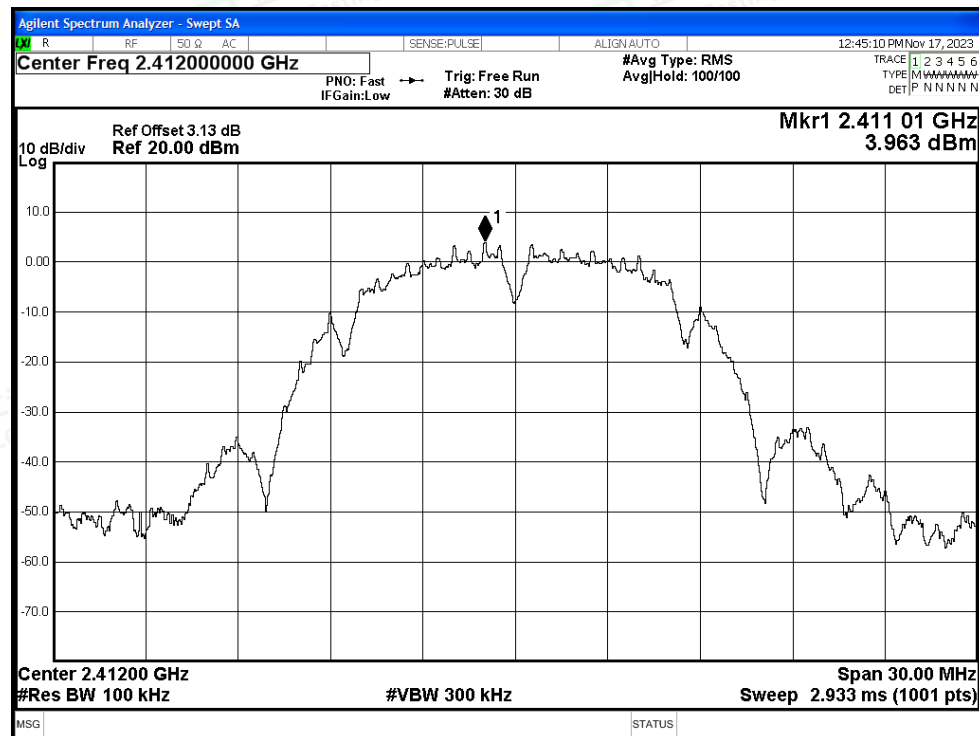
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

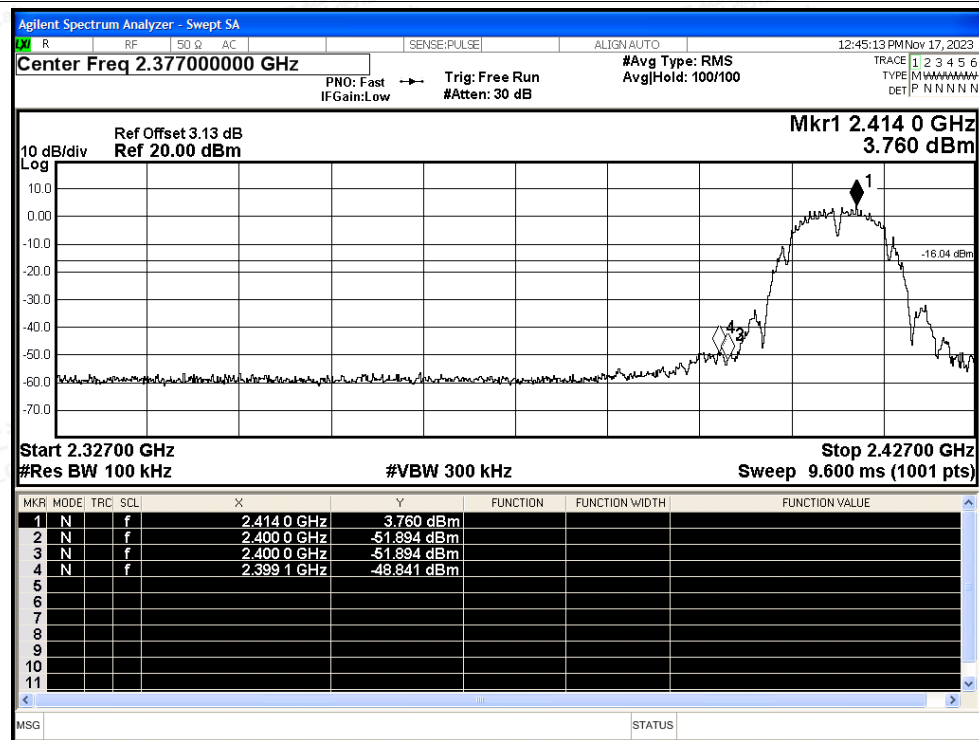


Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref



Band Edge NVNT b 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

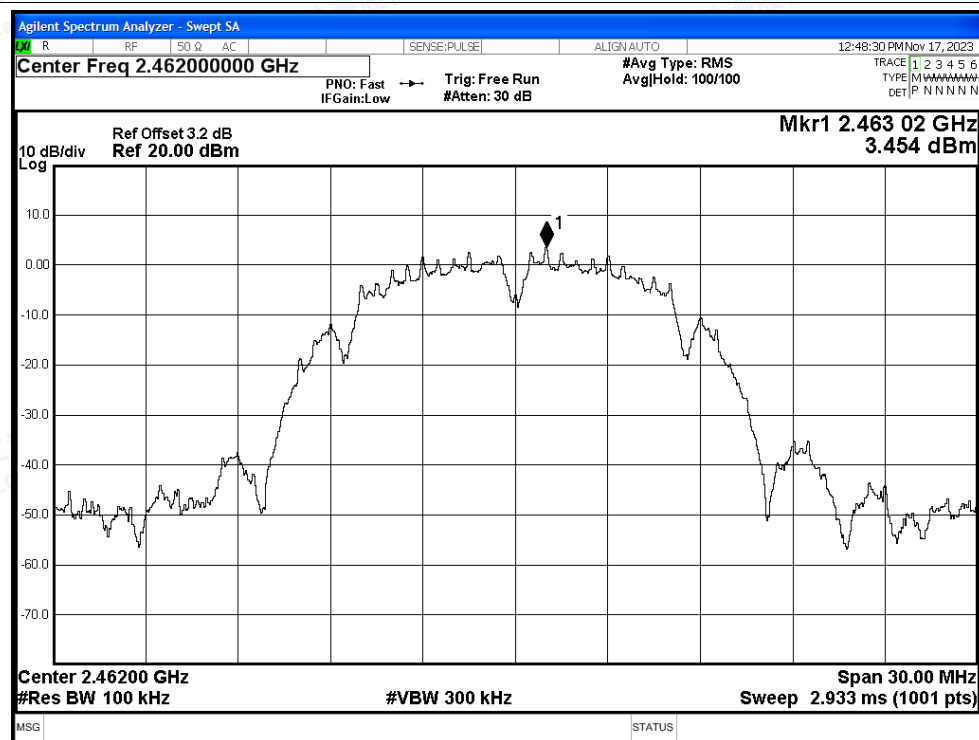
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

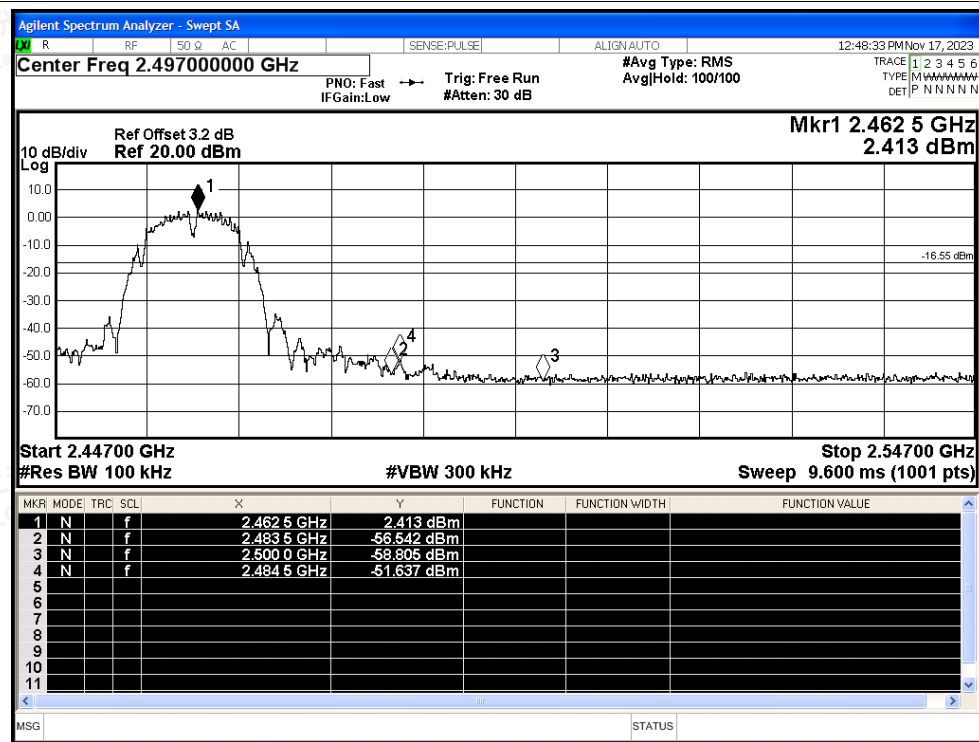
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant0 Ref



Band Edge NVNT b 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

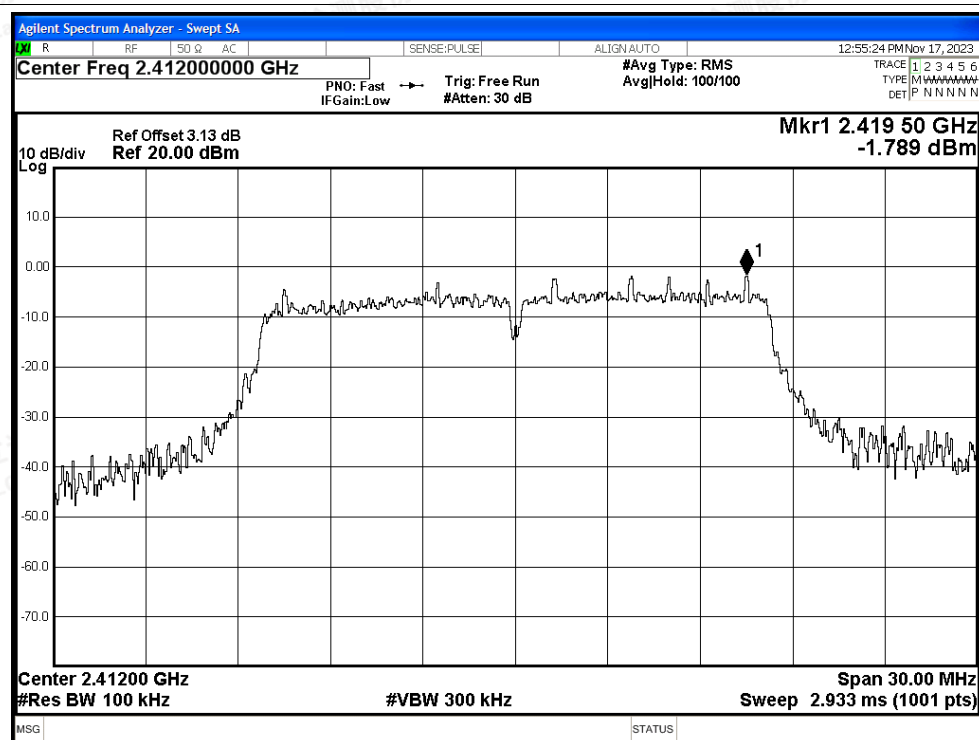
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

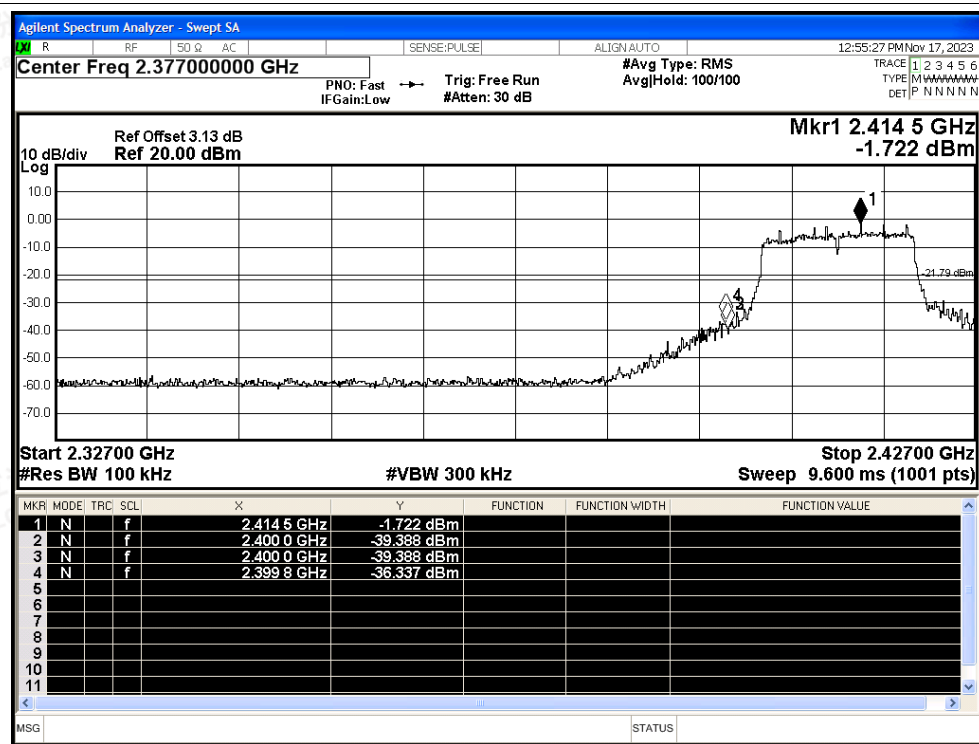
Scan code to check authenticity



Band Edge NVNT g 2412MHz Ant0 Ref



Band Edge NVNT g 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

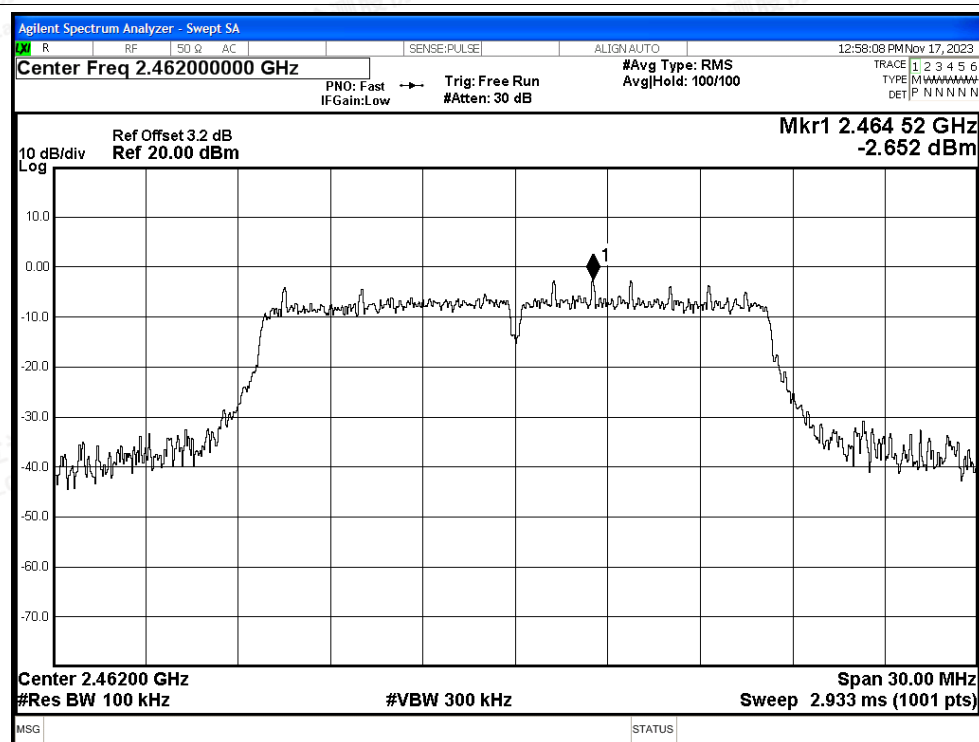
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

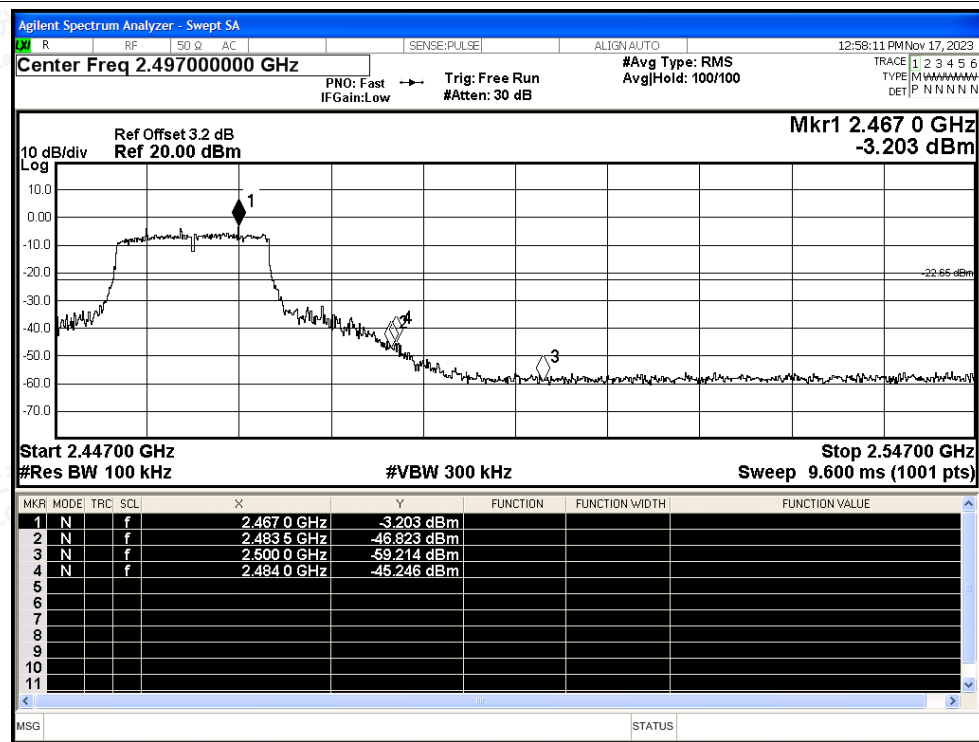
Scan code to check authenticity



Band Edge NVNT g 2462MHz Ant0 Ref



Band Edge NVNT g 2462MHz Ant0 Emission

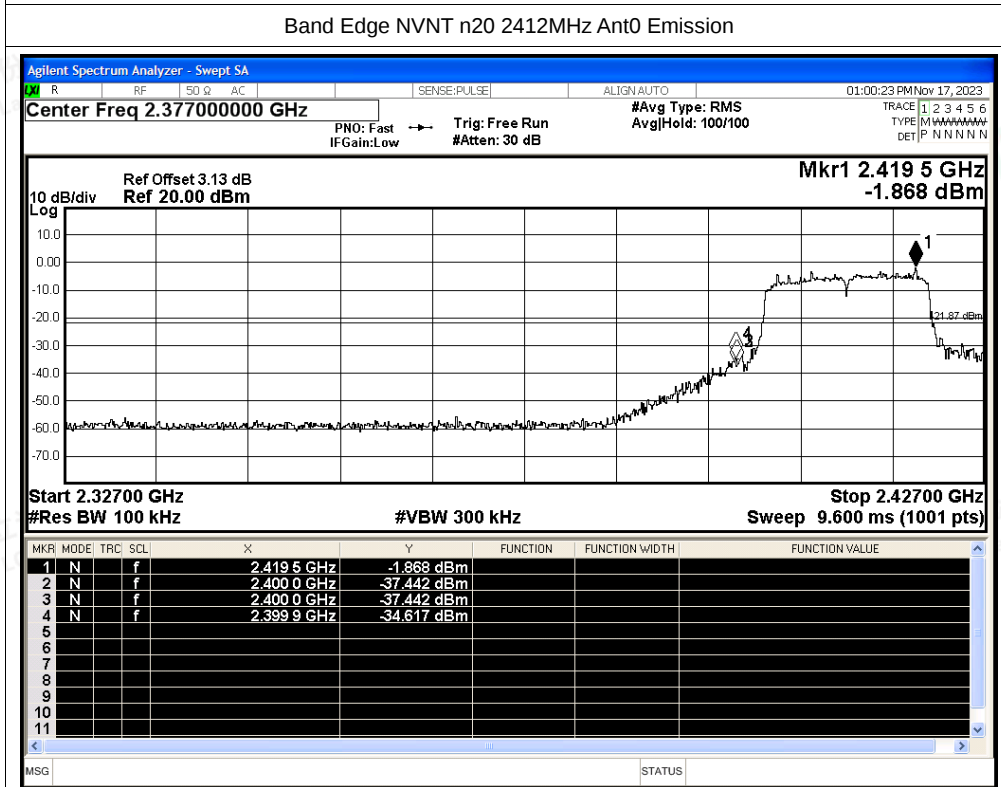
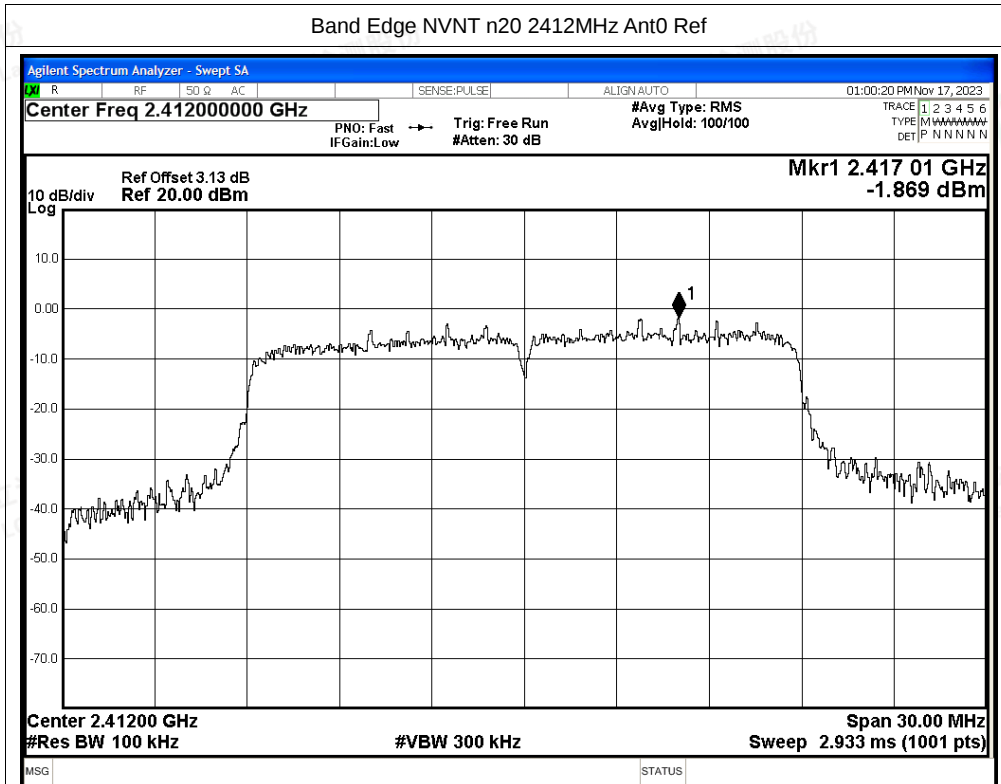


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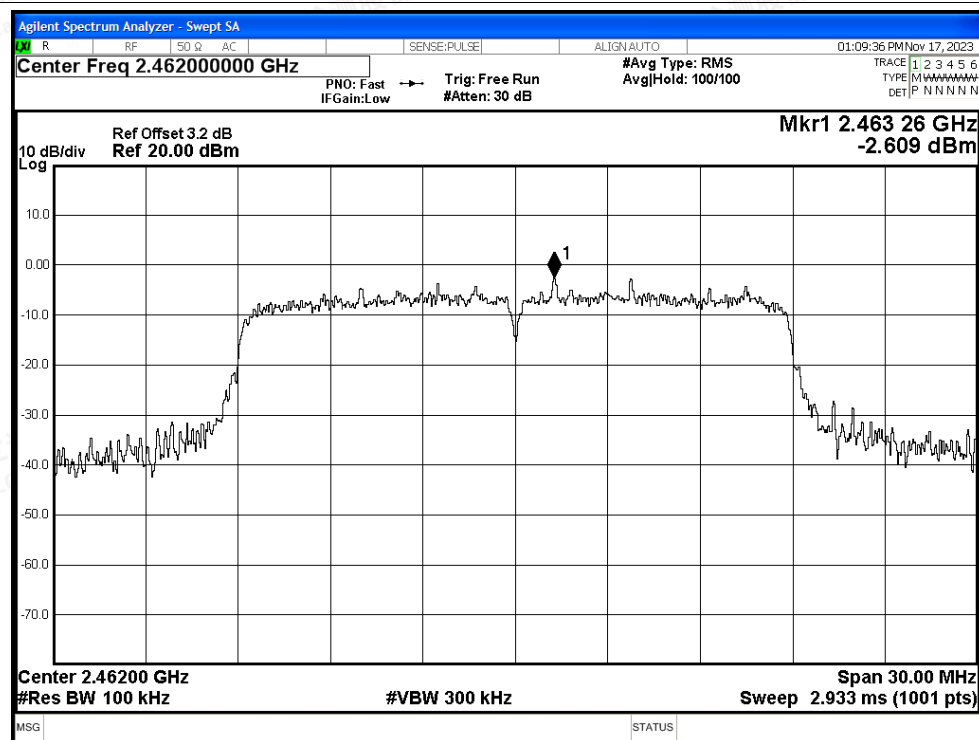
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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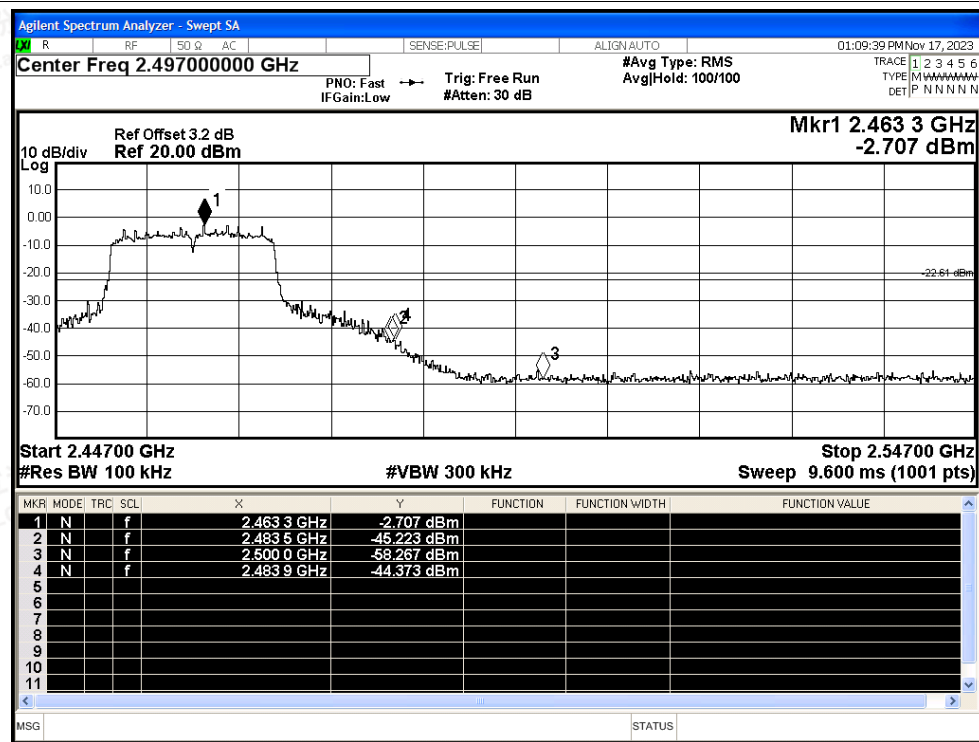
Scan code to check authenticity



Band Edge NVNT n20 2462MHz Ant0 Ref



Band Edge NVNT n20 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

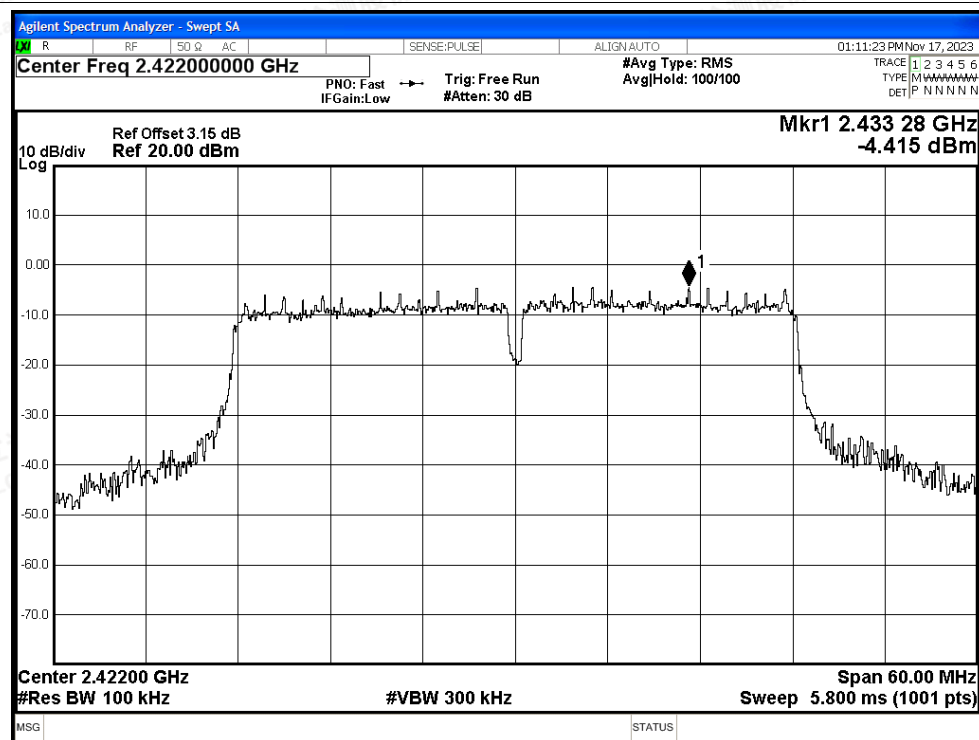
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

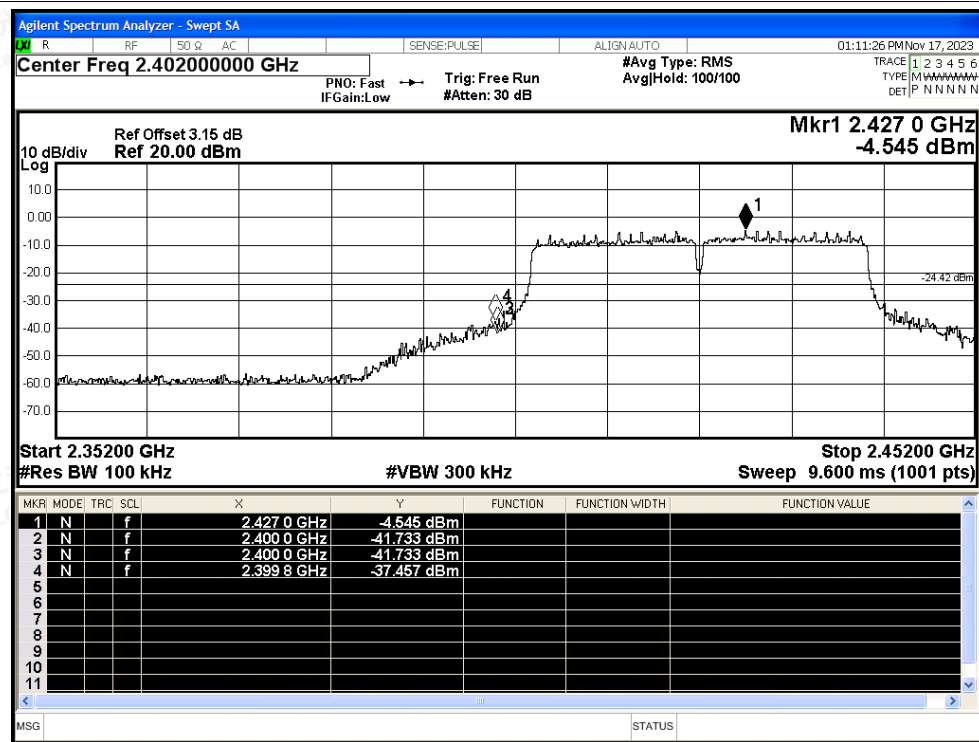
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant0 Ref



Band Edge NVNT n40 2422MHz Ant0 Emission

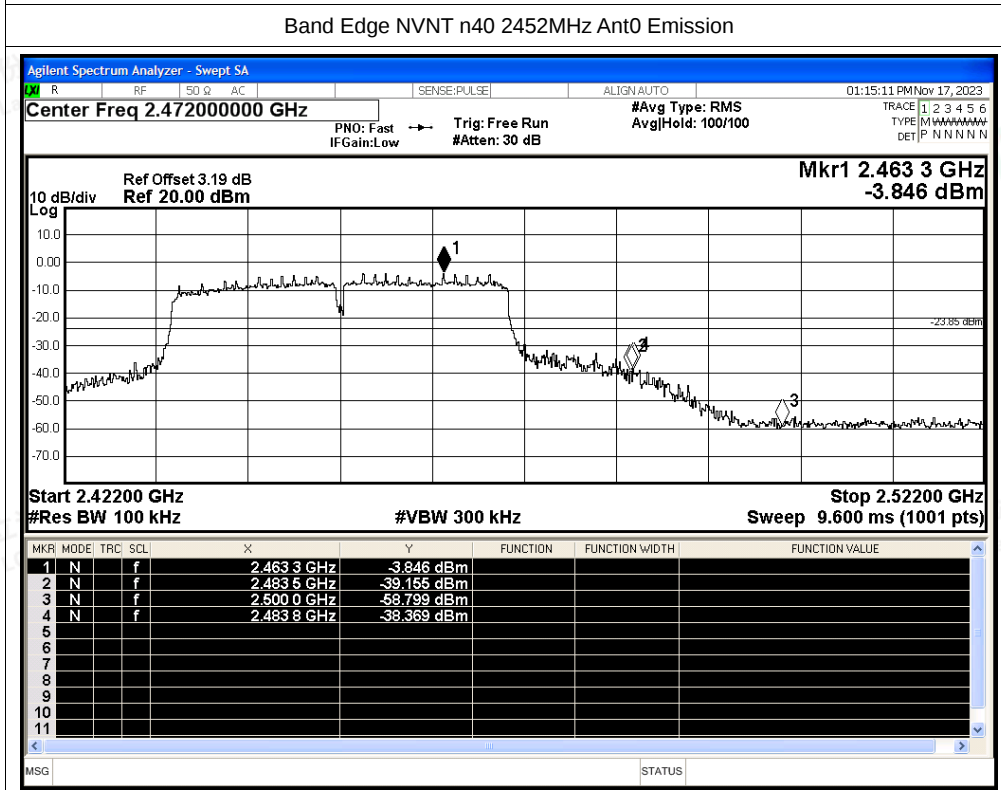
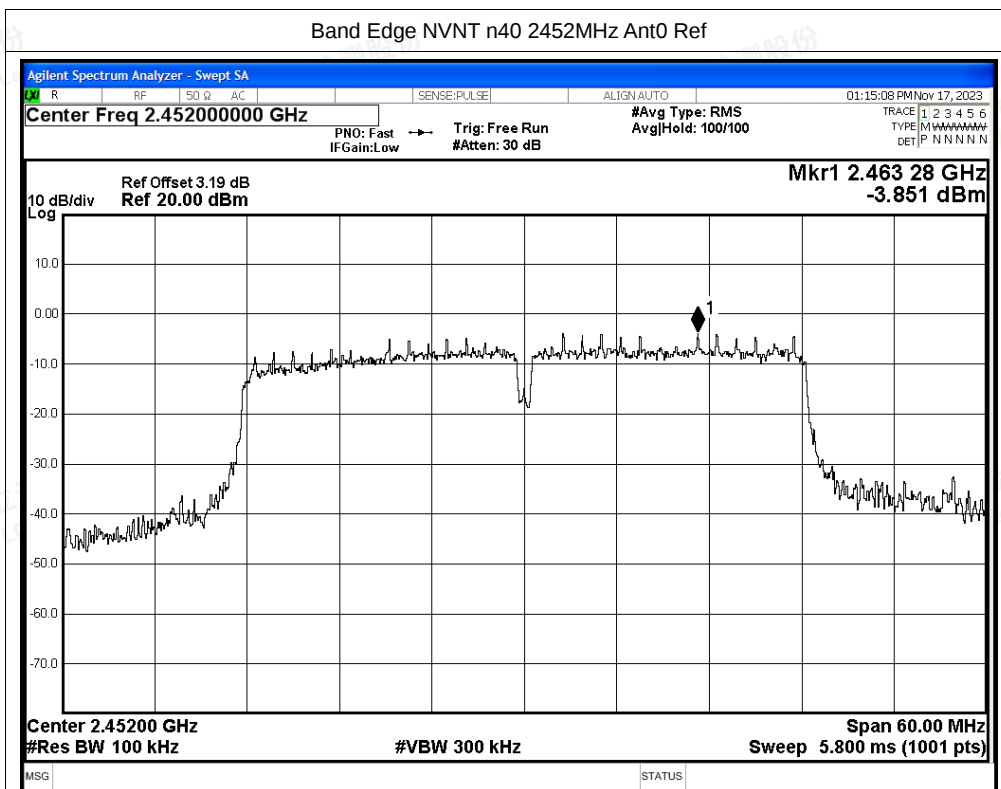


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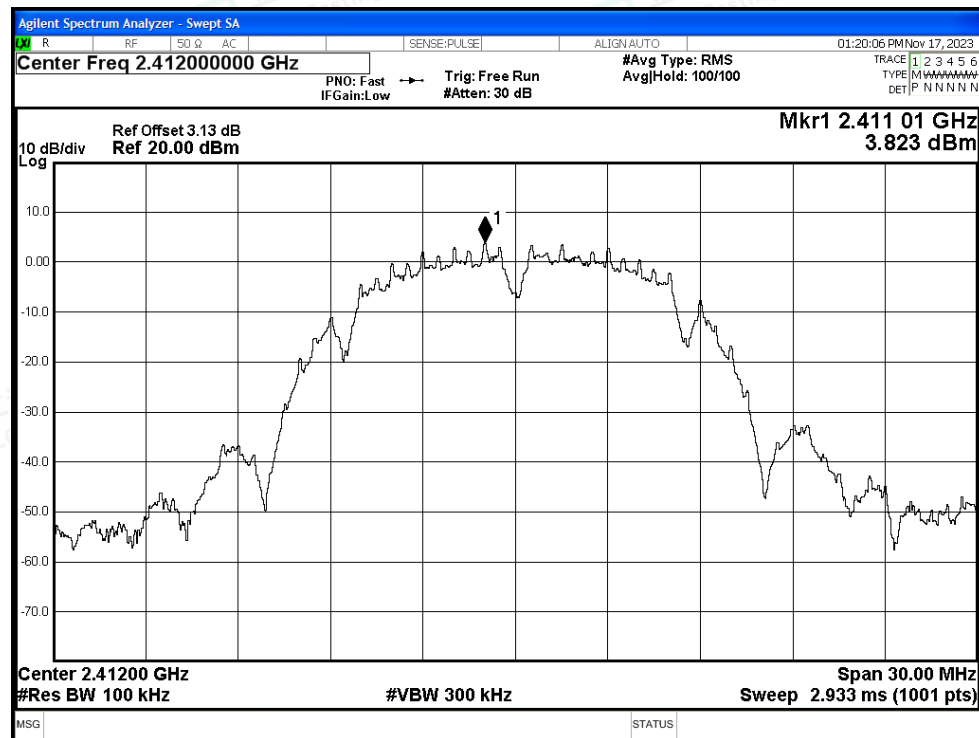
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-54.03	-20	Pass
NVNT	b	2462	Ant1	-55.97	-20	Pass
NVNT	g	2412	Ant1	-31.65	-20	Pass
NVNT	g	2462	Ant1	-42.7	-20	Pass
NVNT	n20	2412	Ant1	-29.71	-20	Pass
NVNT	n20	2462	Ant1	-38.89	-20	Pass
NVNT	n40	2422	Ant1	-33.33	-20	Pass
NVNT	n40	2452	Ant1	-34.49	-20	Pass



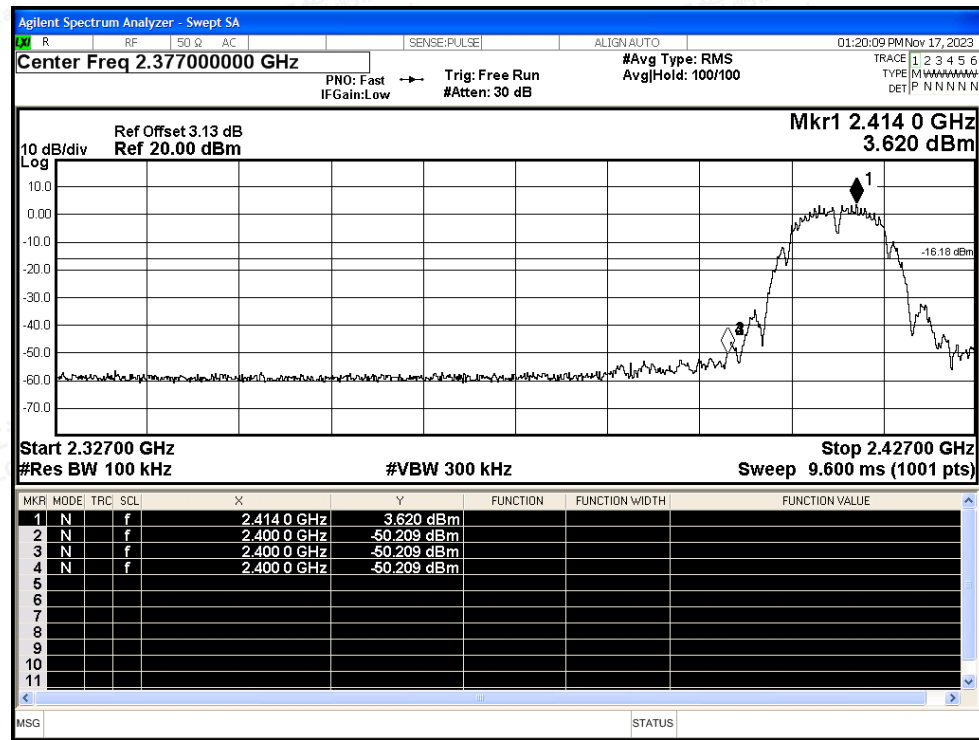


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

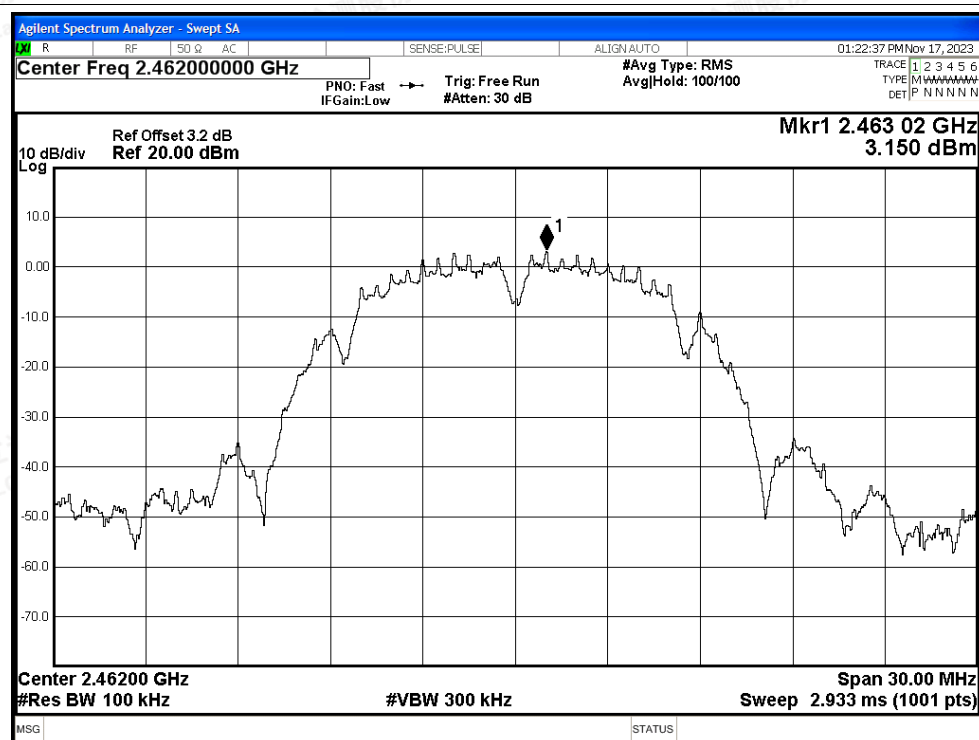
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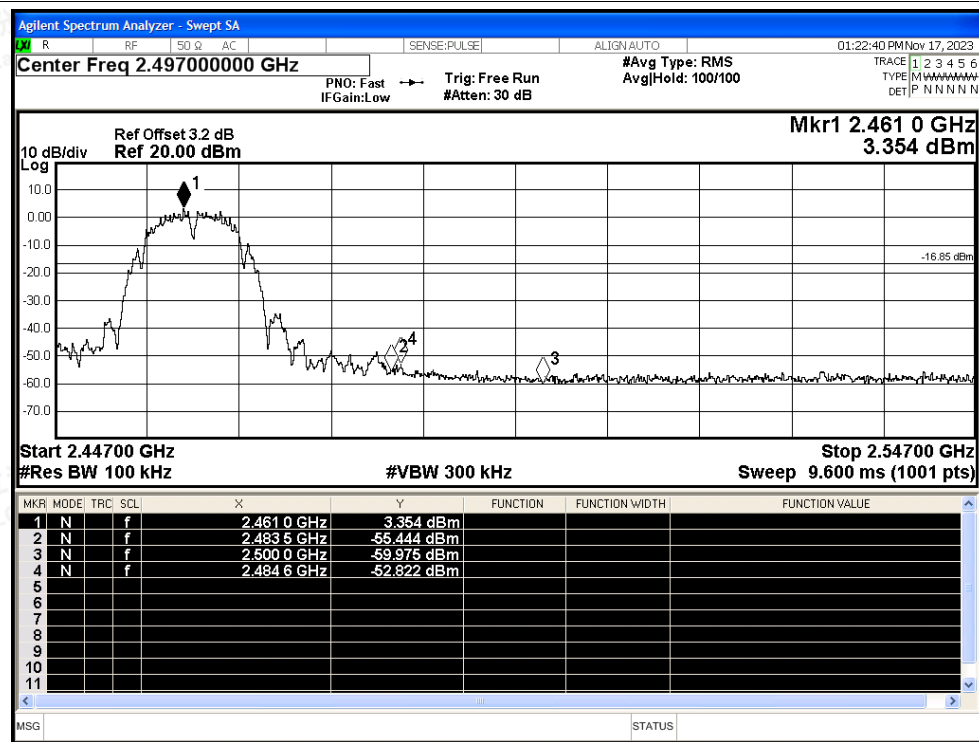
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

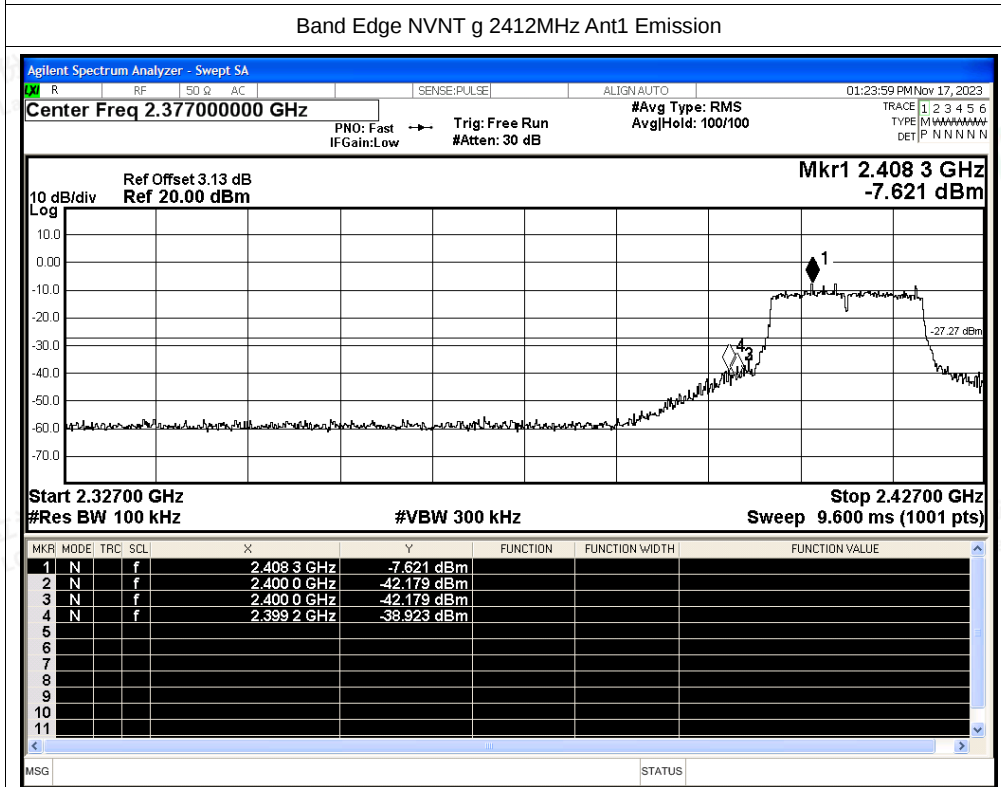
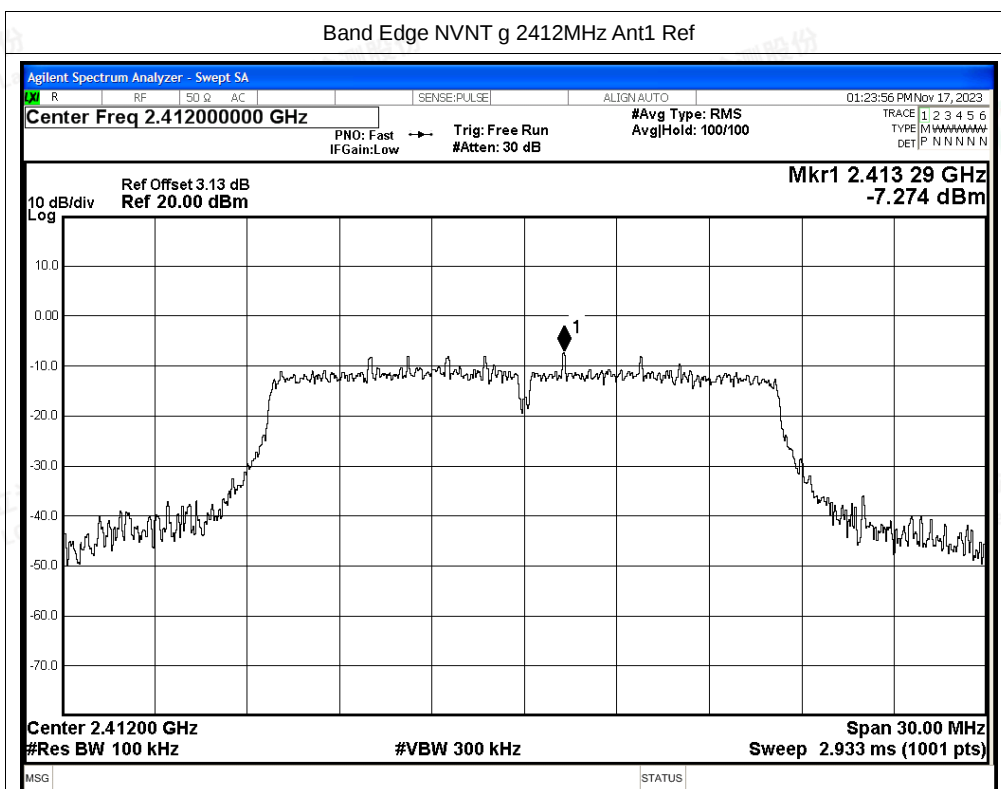


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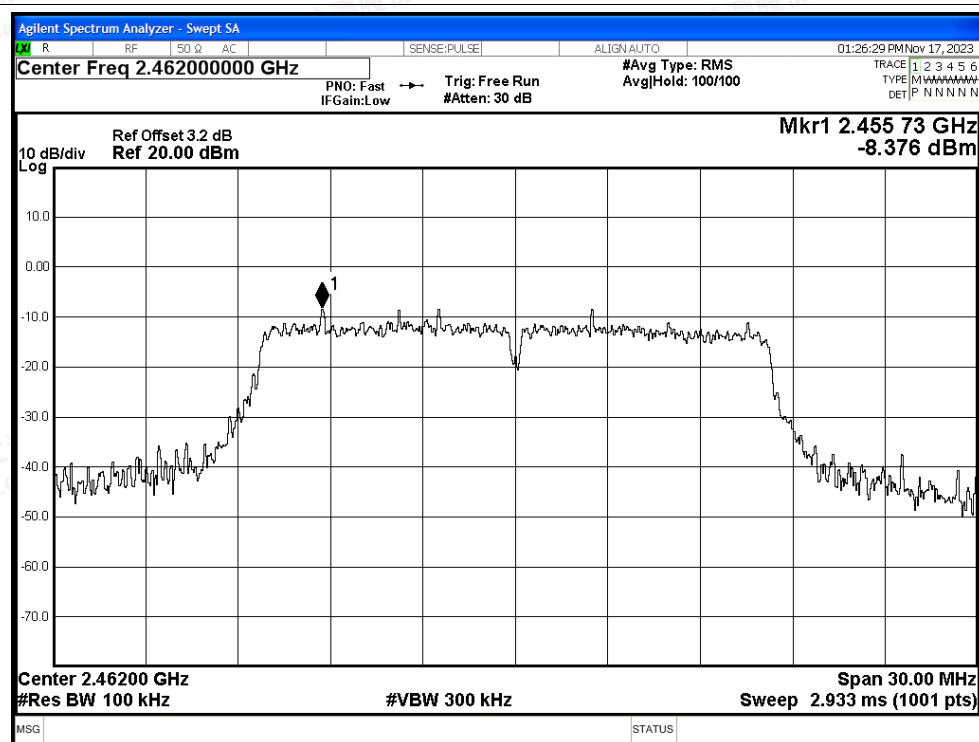
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

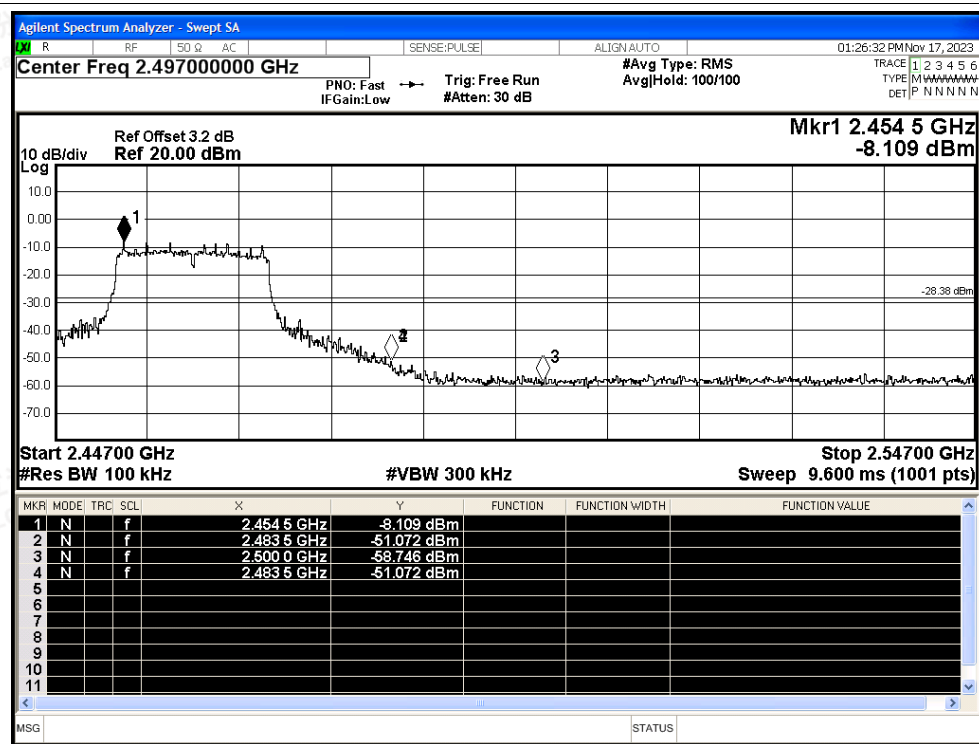




Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

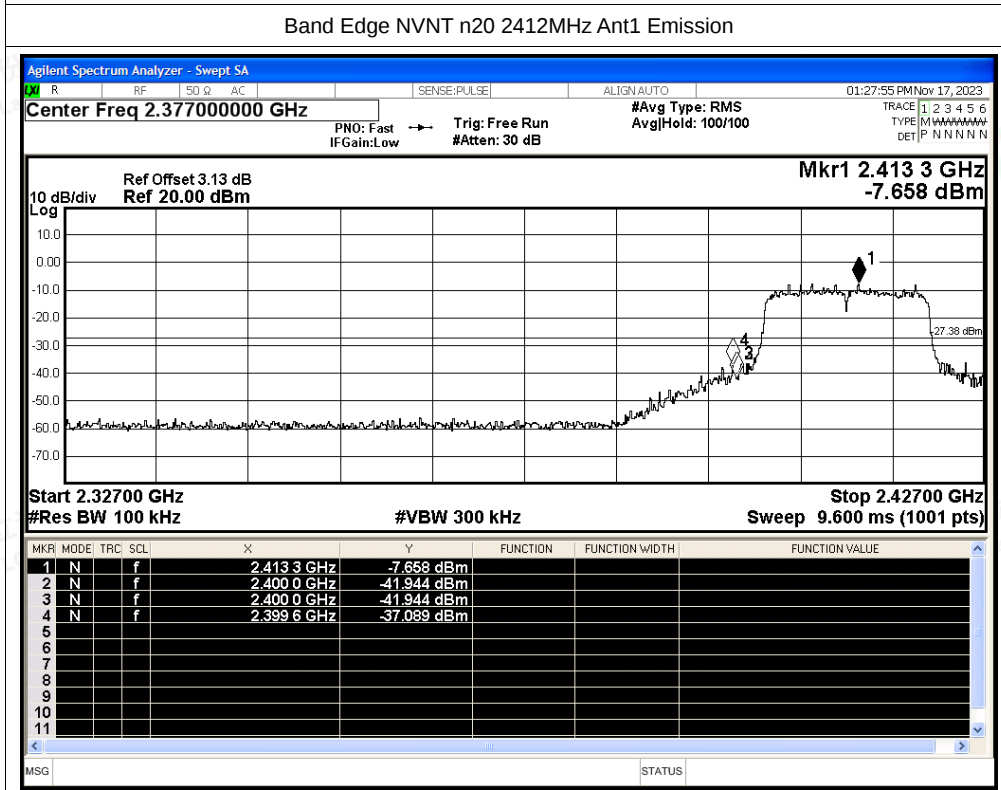
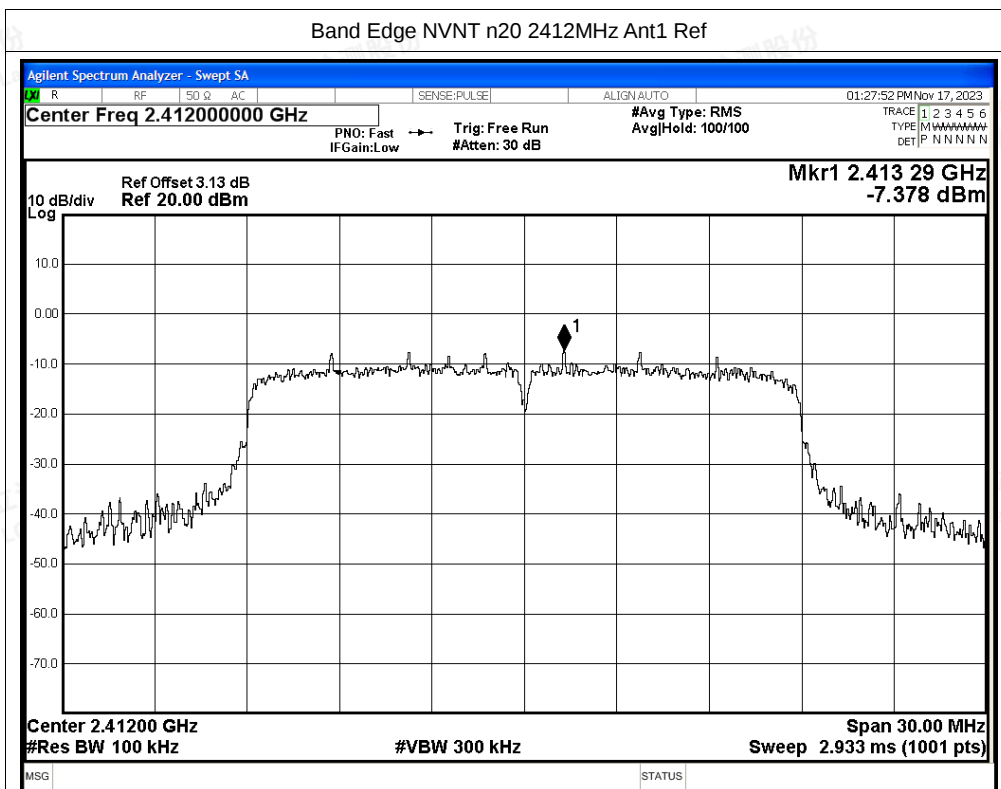


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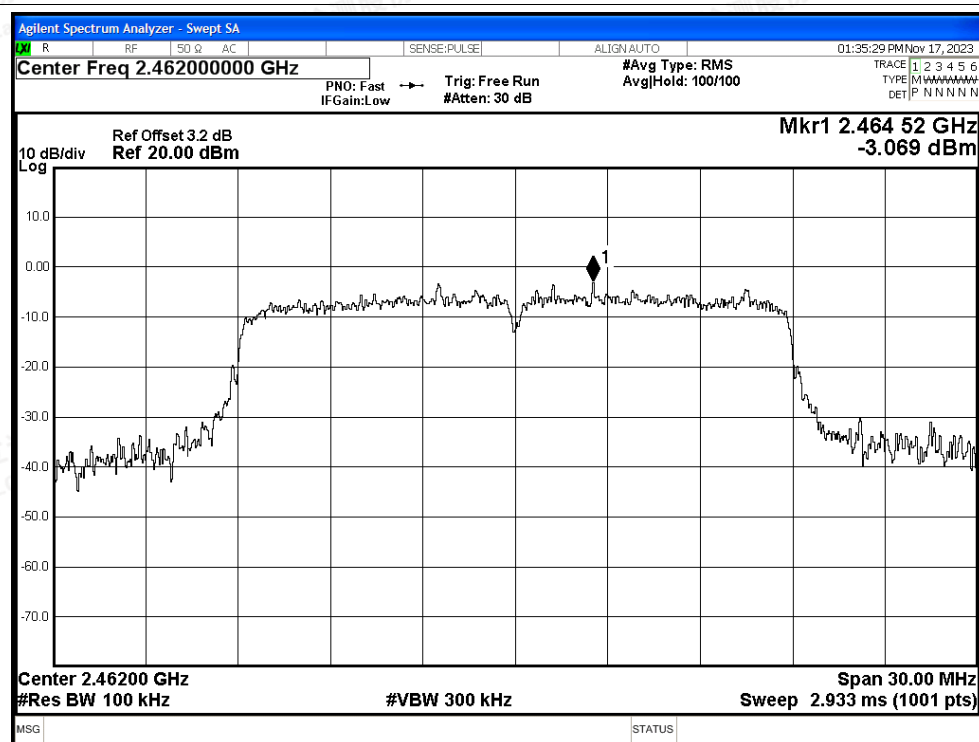
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

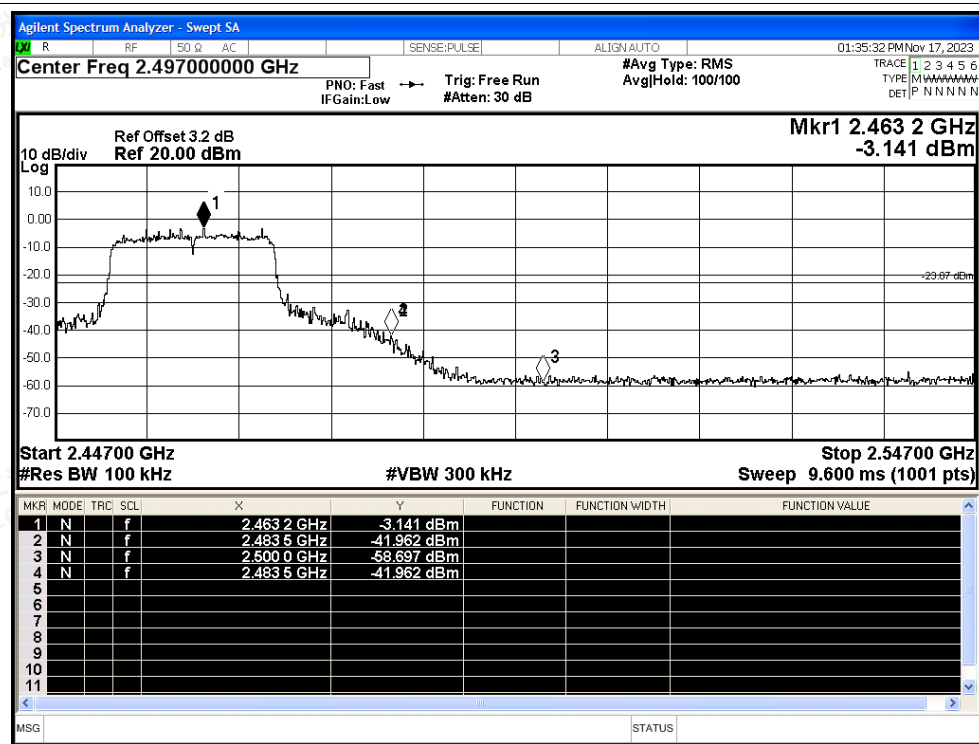
Scan code to check authenticity



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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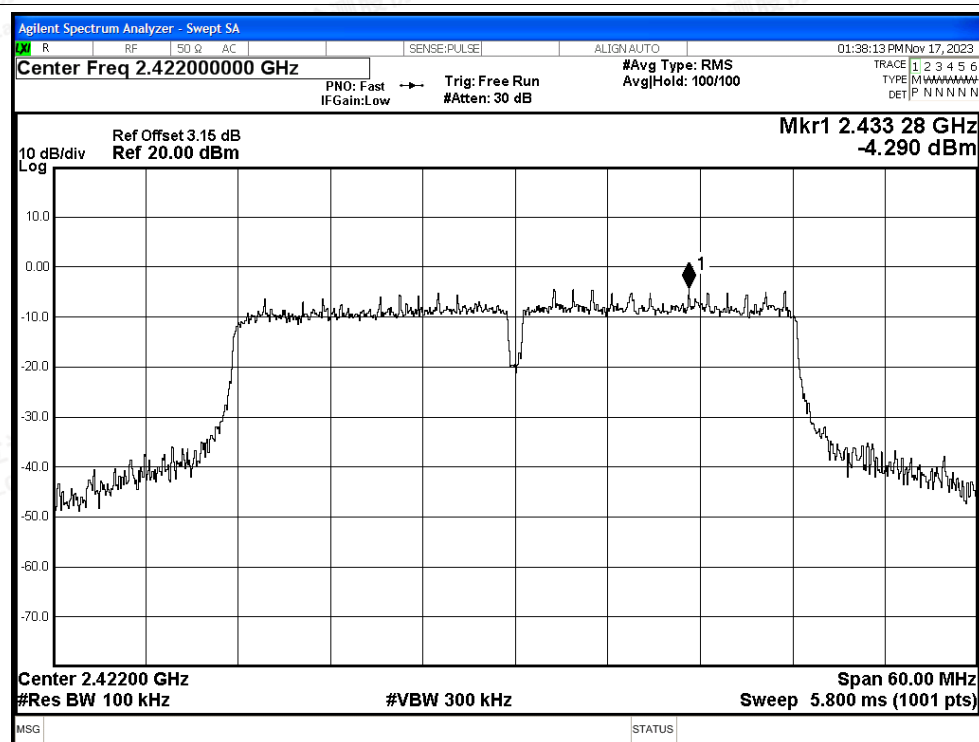
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

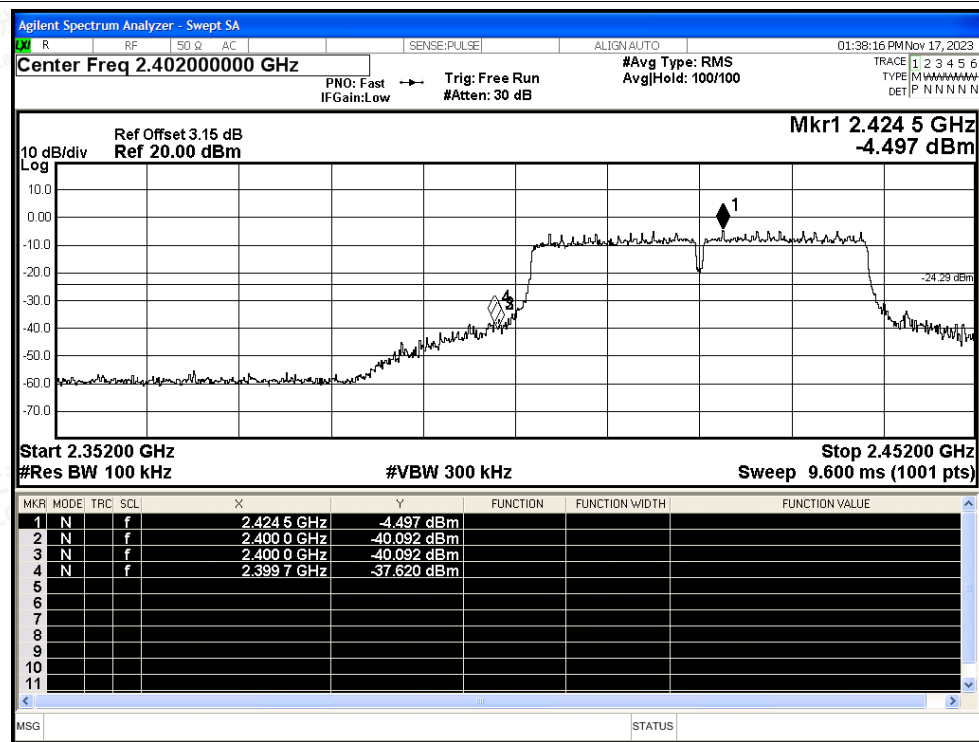
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

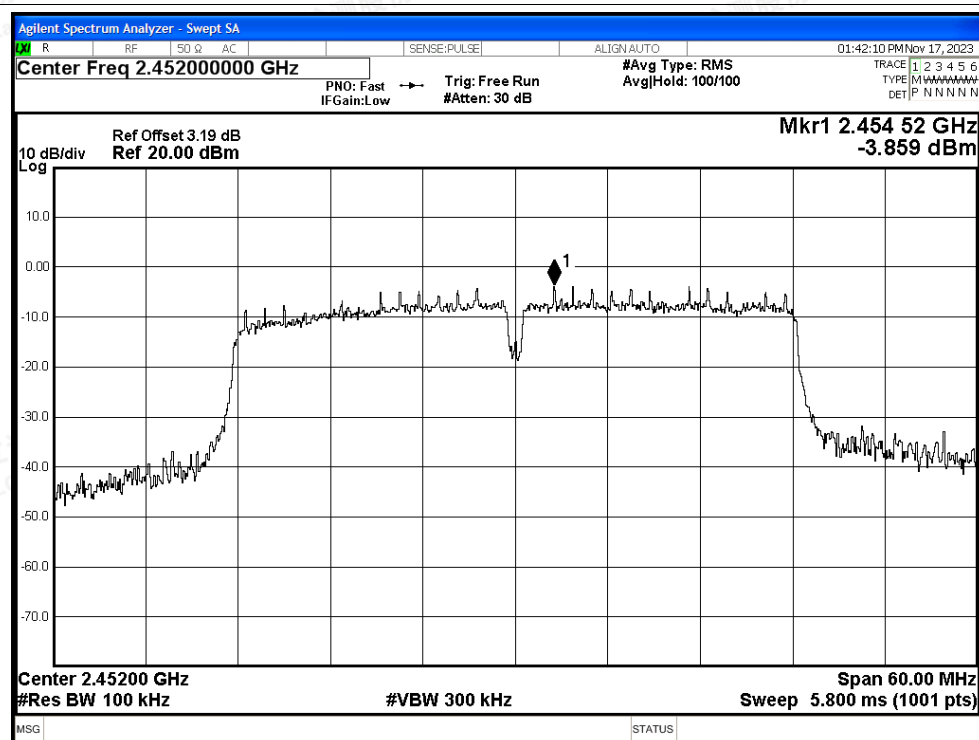
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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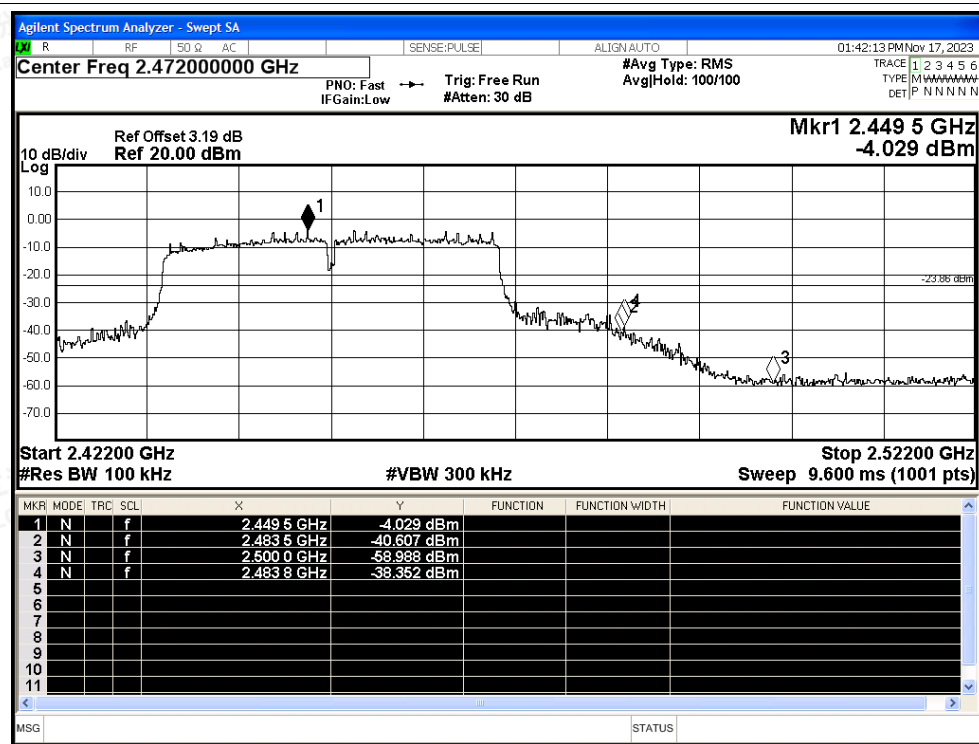
Scan code to check authenticity



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge 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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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-49.59	-20	Pass
NVNT	b	2437	Ant0	-49.01	-20	Pass
NVNT	b	2462	Ant0	-48.25	-20	Pass
NVNT	g	2412	Ant0	-42.61	-20	Pass
NVNT	g	2437	Ant0	-42.45	-20	Pass
NVNT	g	2462	Ant0	-42.2	-20	Pass
NVNT	n20	2412	Ant0	-43.39	-20	Pass
NVNT	n20	2437	Ant0	-43.02	-20	Pass
NVNT	n20	2462	Ant0	-43.41	-20	Pass
NVNT	n40	2422	Ant0	-41.17	-20	Pass
NVNT	n40	2437	Ant0	-40.46	-20	Pass
NVNT	n40	2452	Ant0	-40.85	-20	Pass



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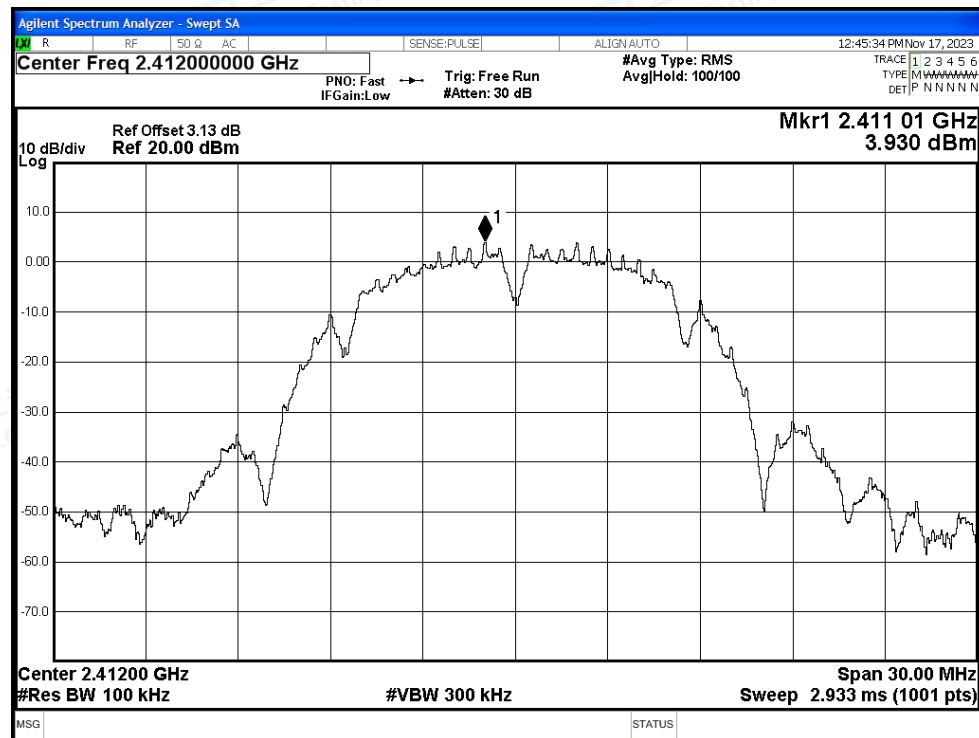
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

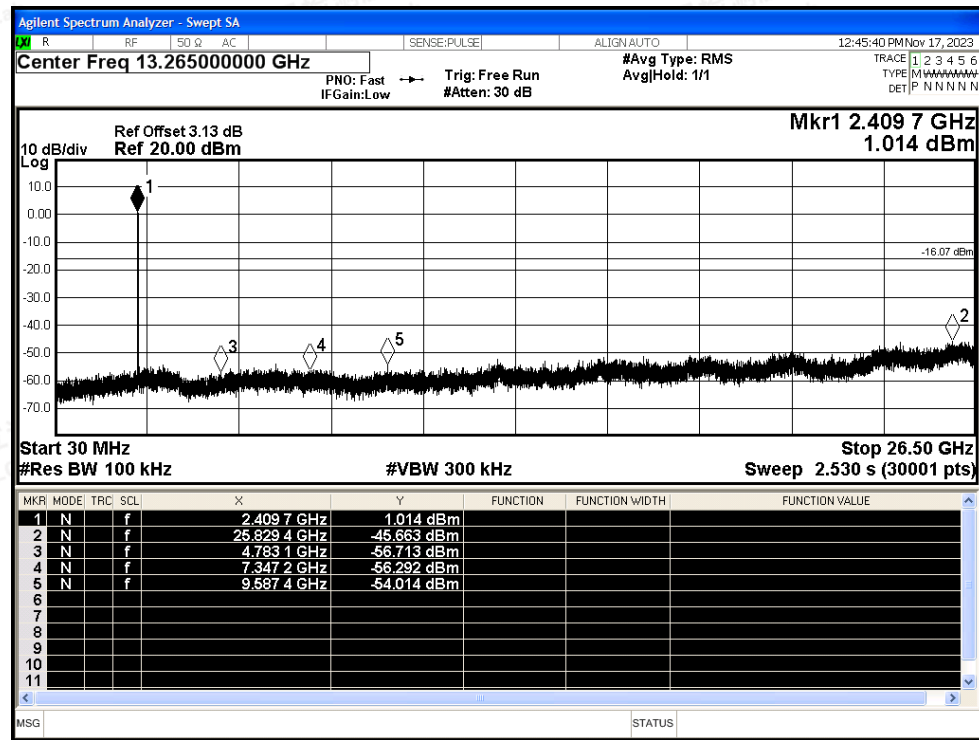


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant0 Ref



Tx. Spurious NVNT b 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

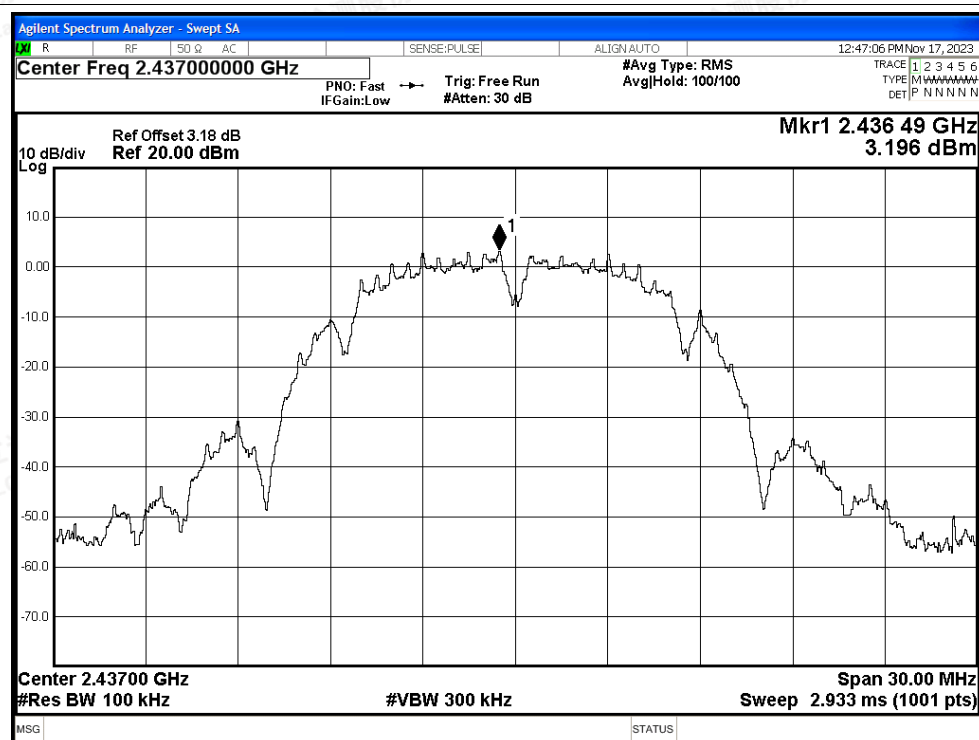
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

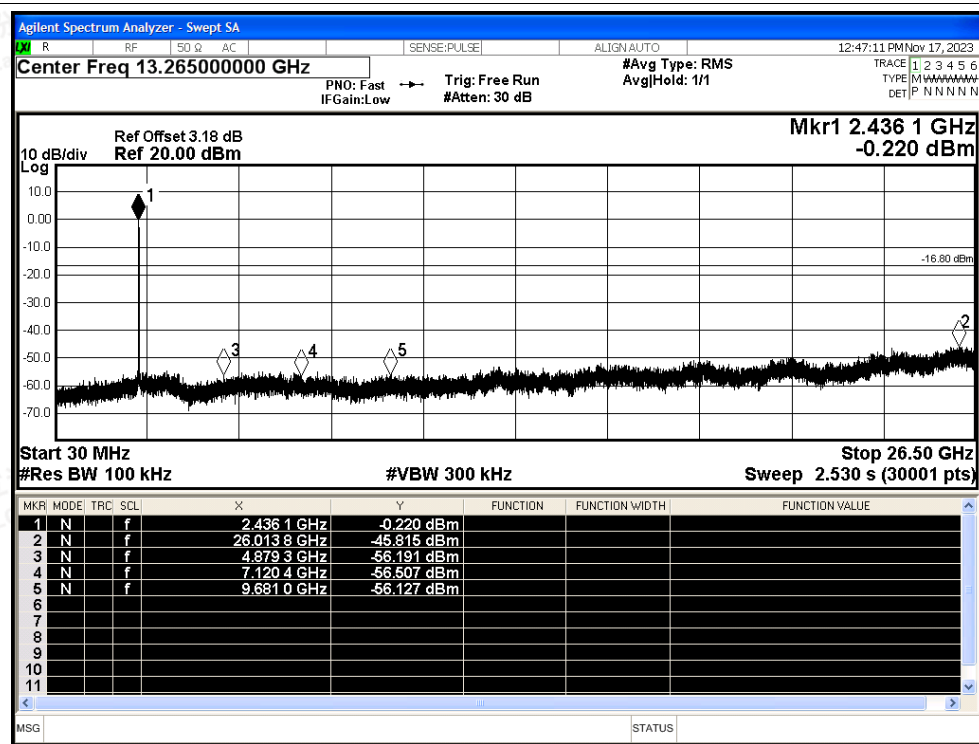
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant0 Ref



Tx. Spurious NVNT b 2437MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

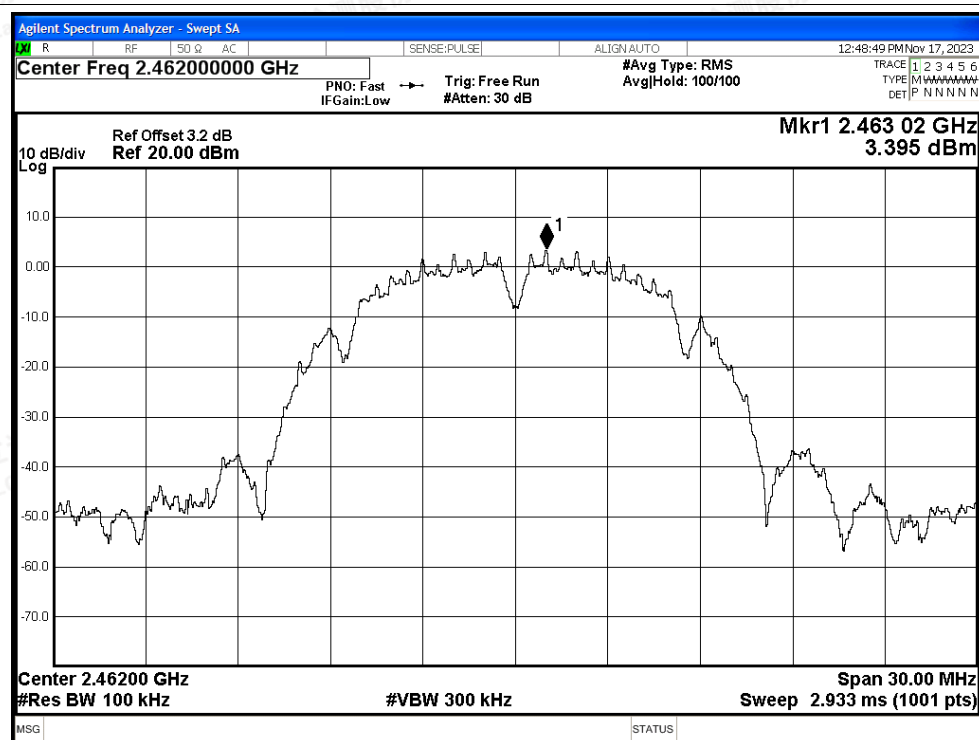
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

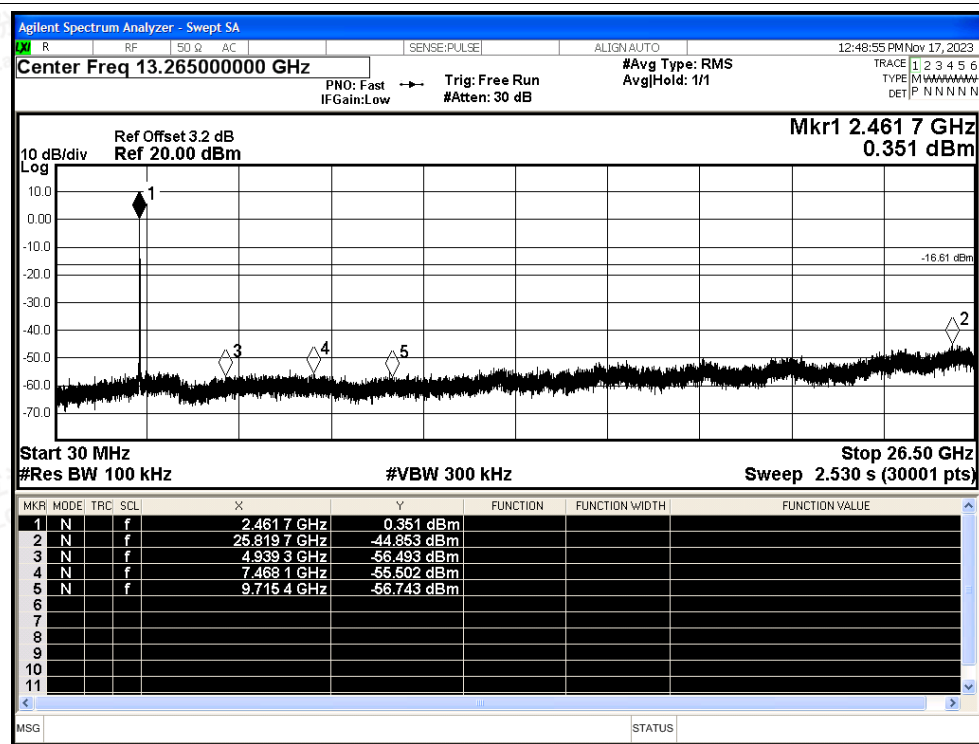
Scan code to check authenticity



Tx. Spurious NVNT b 2462MHz Ant0 Ref



Tx. Spurious NVNT b 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

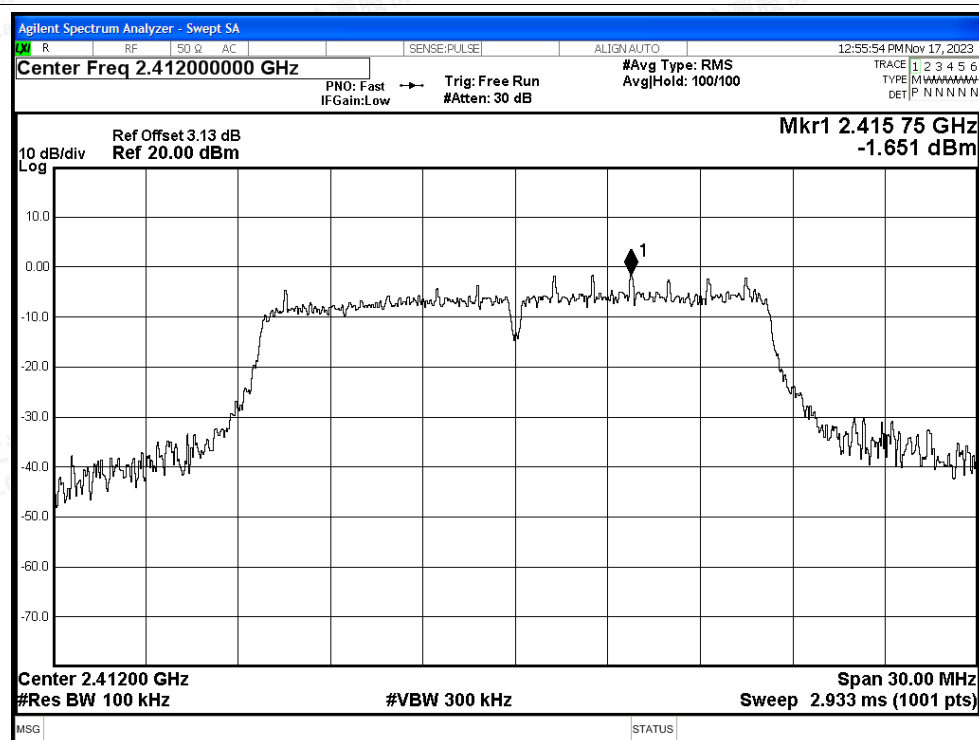
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

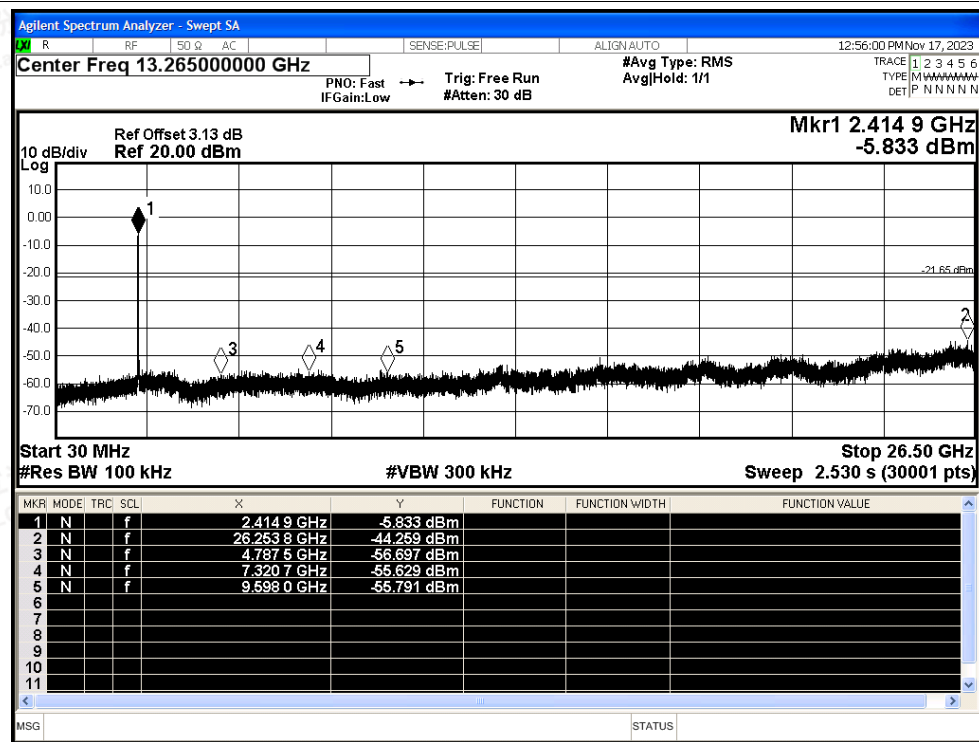
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant0 Ref



Tx. Spurious NVNT g 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

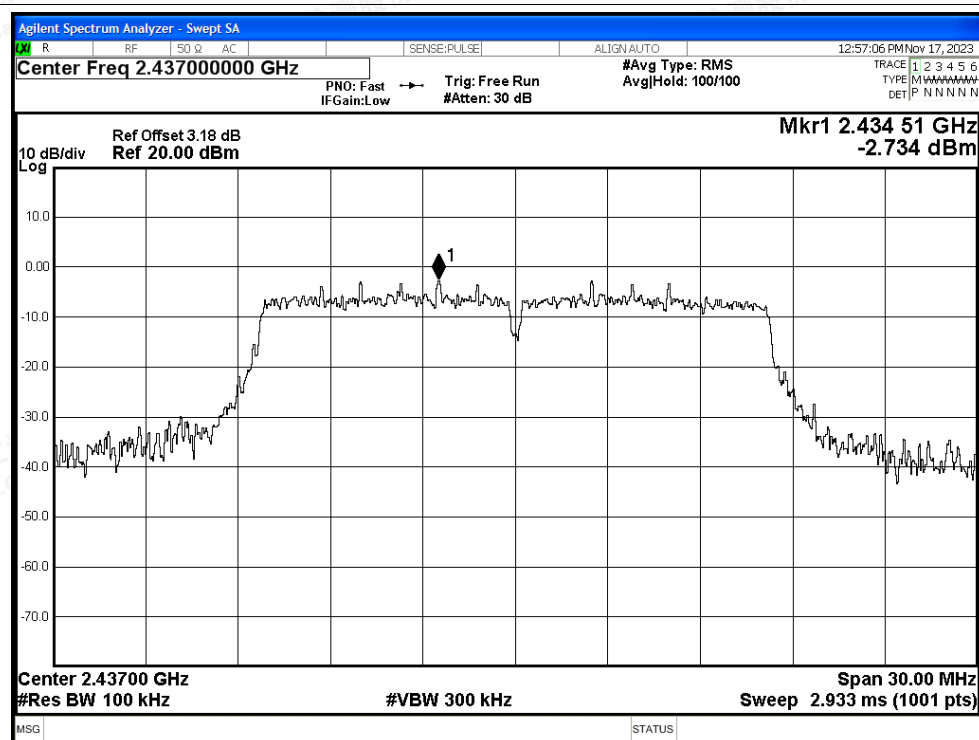
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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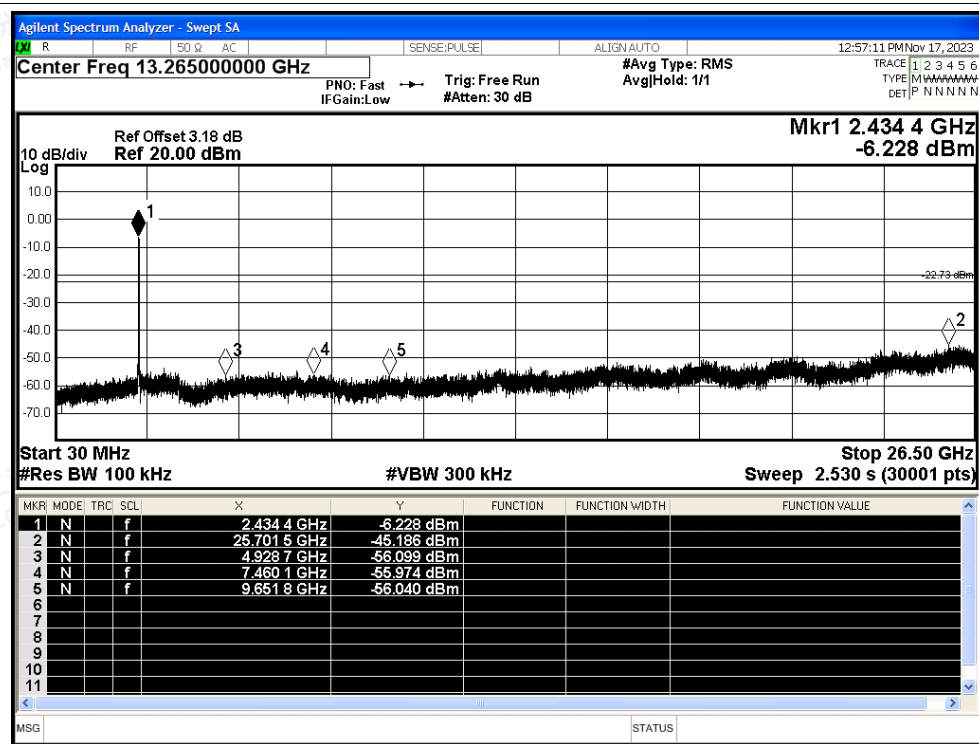
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Tx. Spurious NVNT g 2437MHz Ant0 Ref



Tx. Spurious NVNT g 2437MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

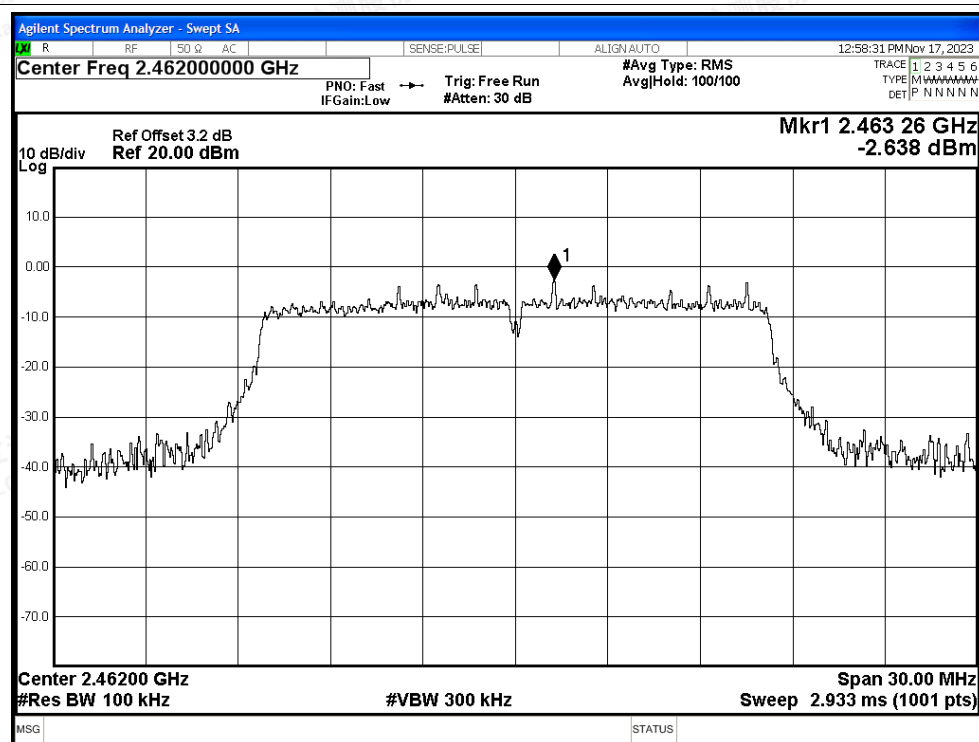
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

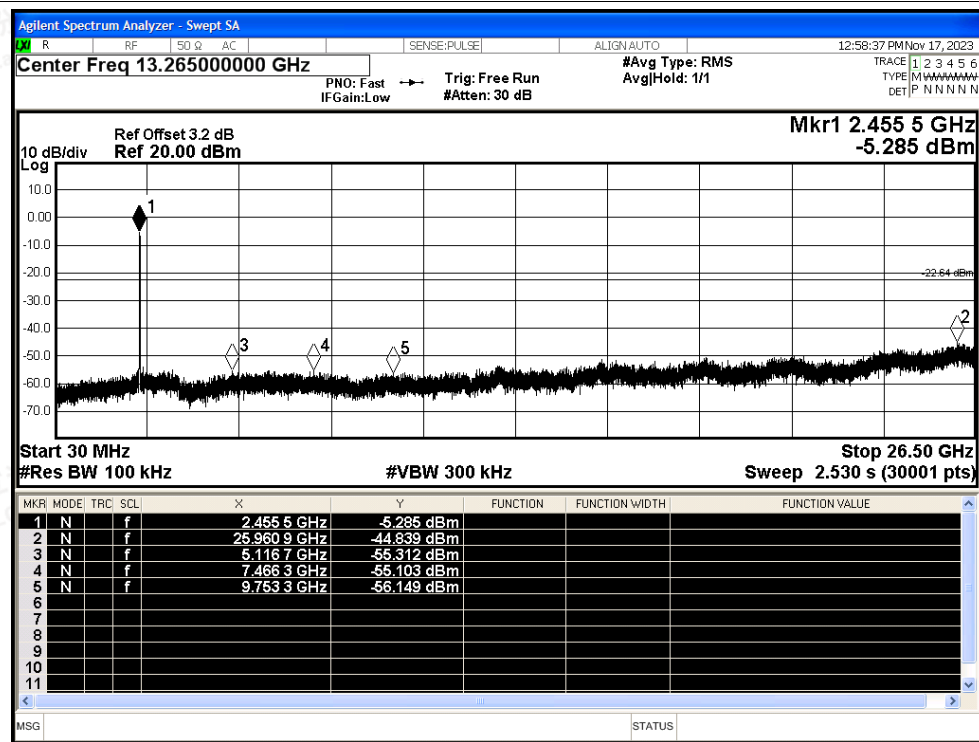
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Tx. Spurious NVNT g 2462MHz Ant0 Ref



Tx. Spurious NVNT g 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

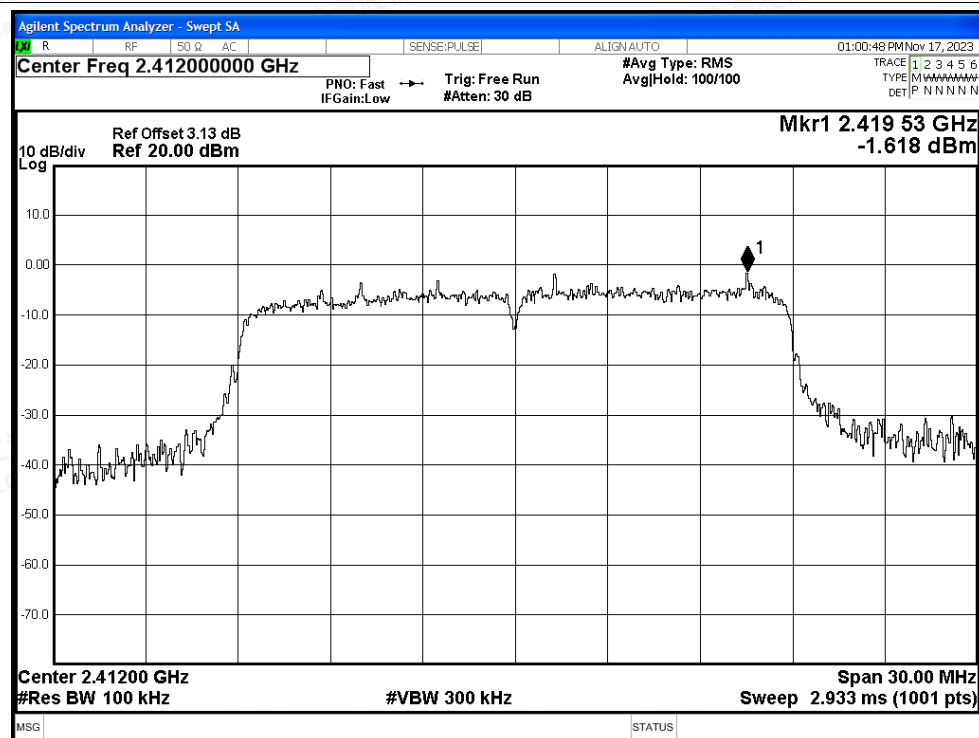
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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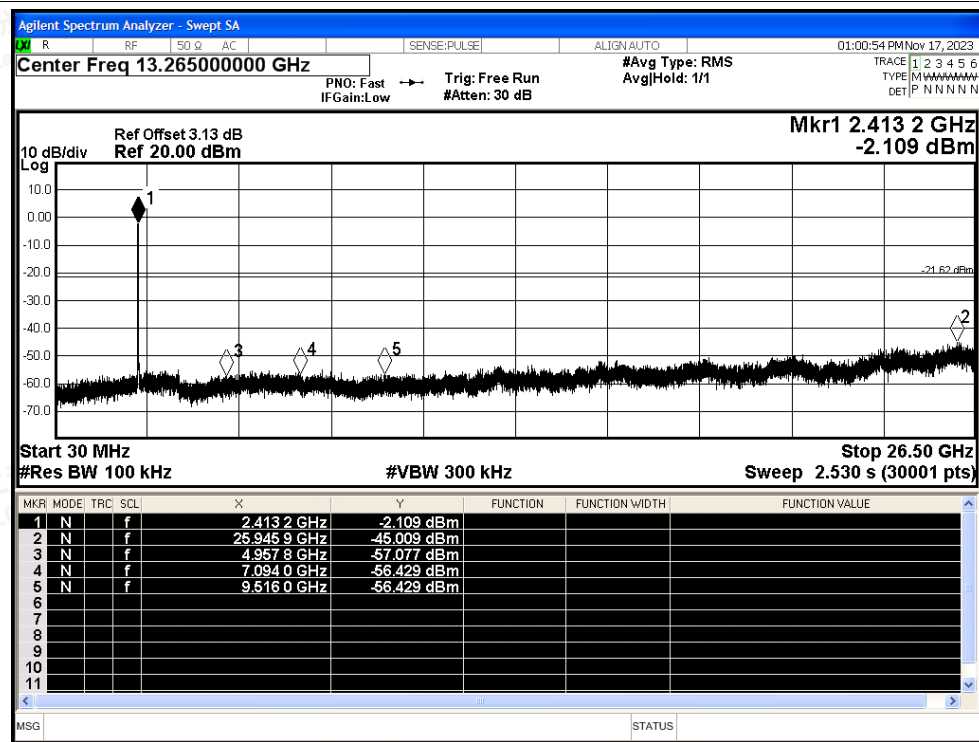
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Tx. Spurious NVNT n20 2412MHz Ant0 Ref



Tx. Spurious NVNT n20 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

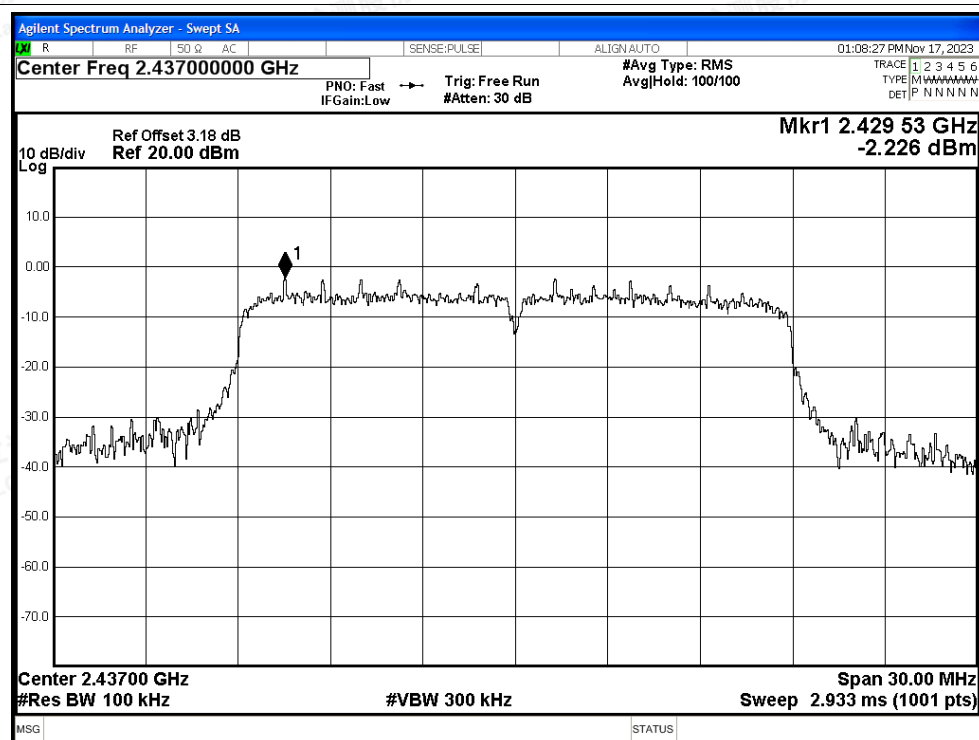
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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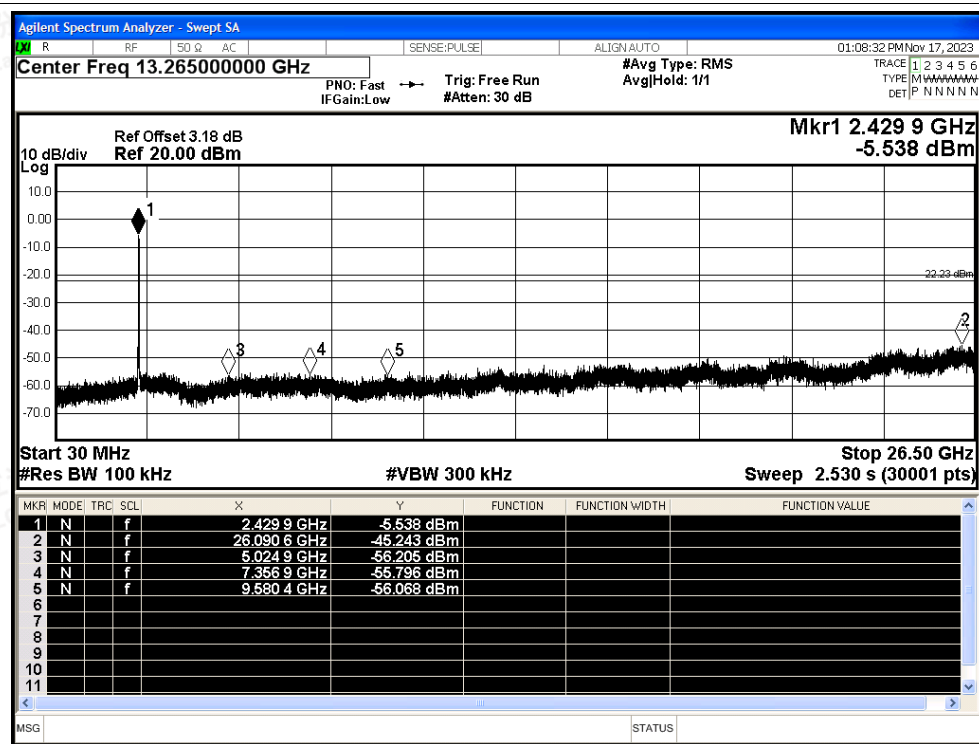
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Tx. Spurious NVNT n20 2437MHz Ant0 Ref



Tx. Spurious NVNT n20 2437MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

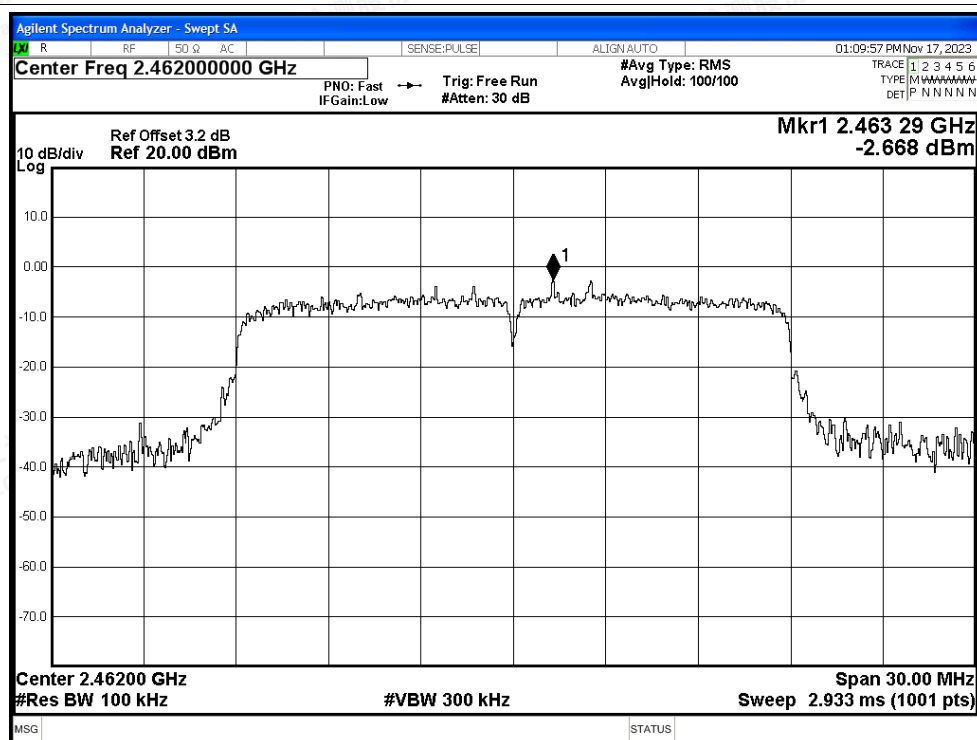
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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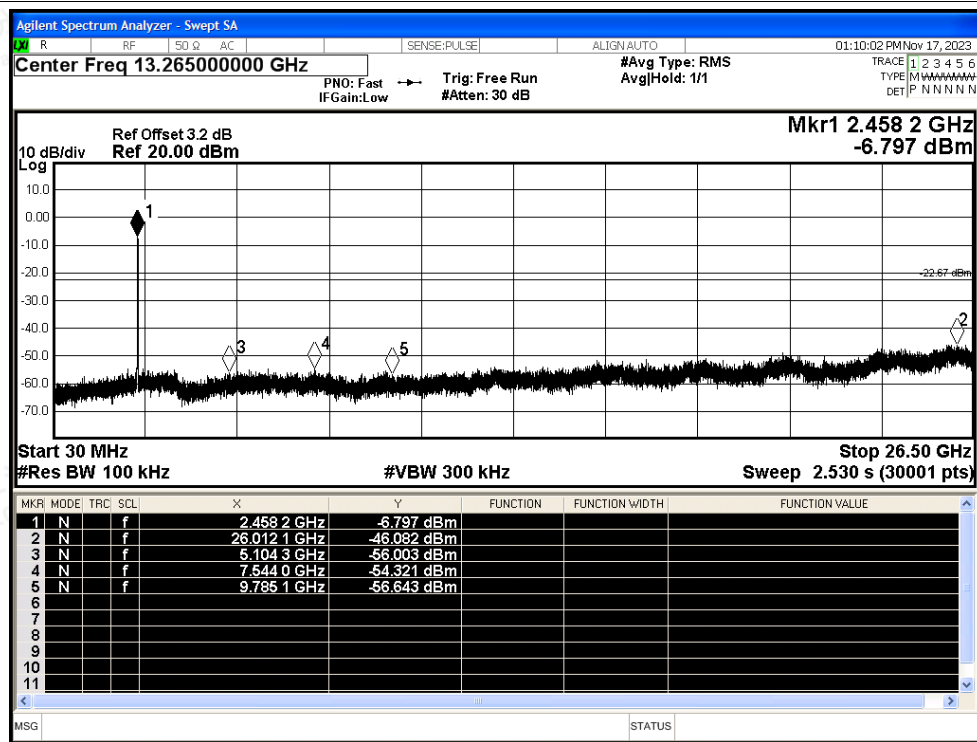
Scan code to check authenticity



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