



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: SwitchBot Air Purifier

Test Model: W5302300

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.587	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.583	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.088	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.339	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.343	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.338	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.137	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.28	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.289	≥ 0.5	Pass
NVNT	n40	2422	Ant1	34.996	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.299	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.753	≥ 0.5	Pass



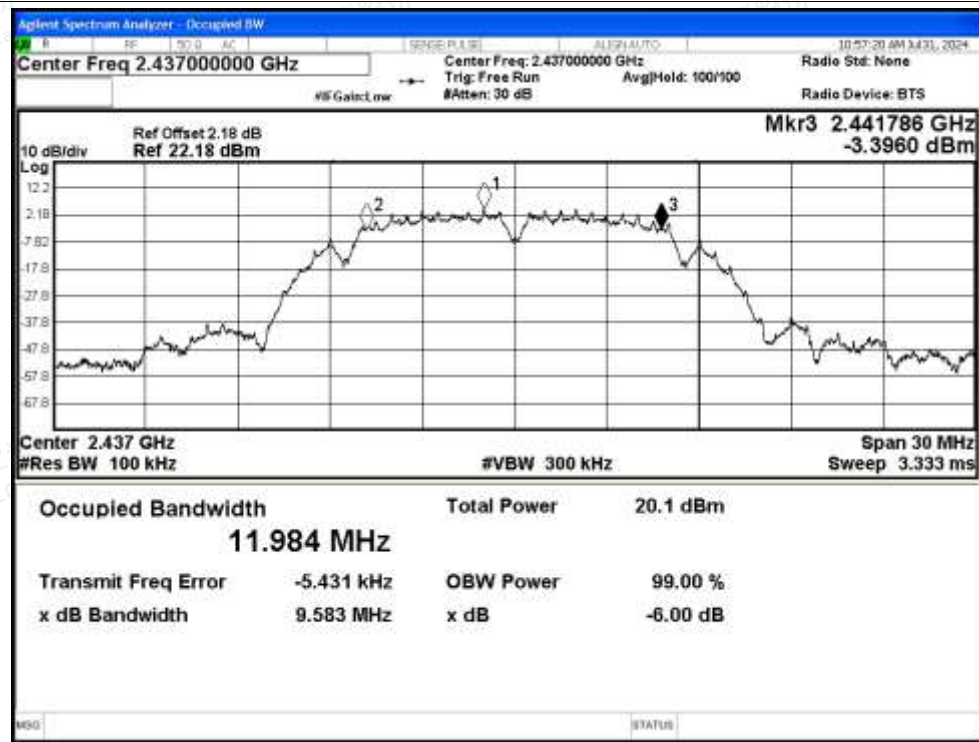


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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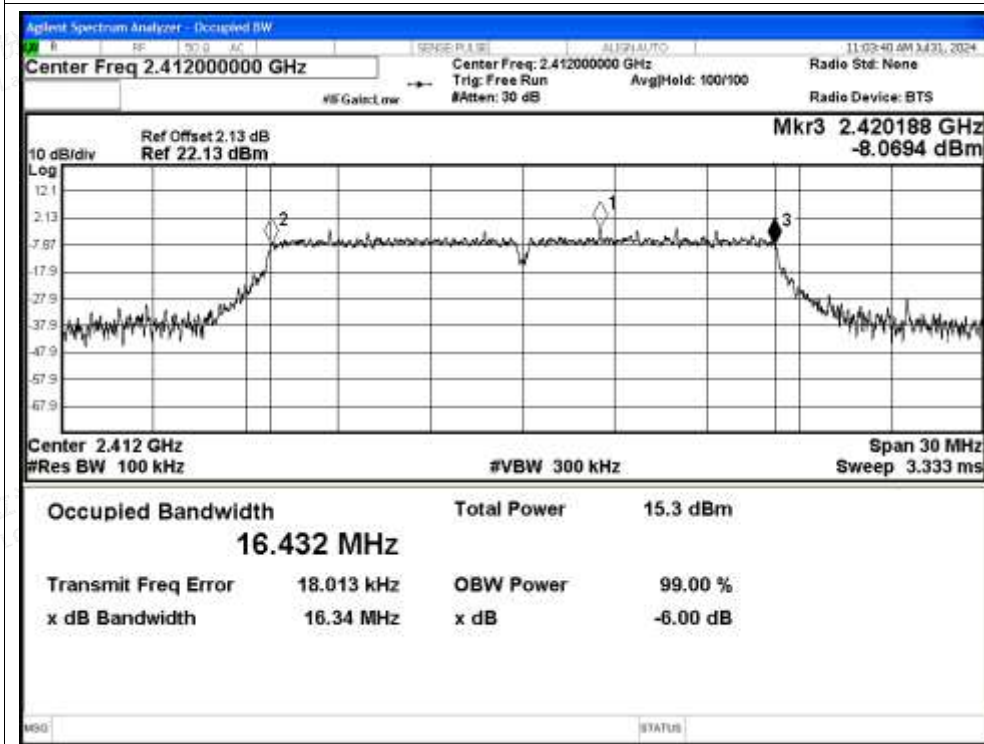
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-6dB Bandwidth NVNT b 2462MHz Ant1

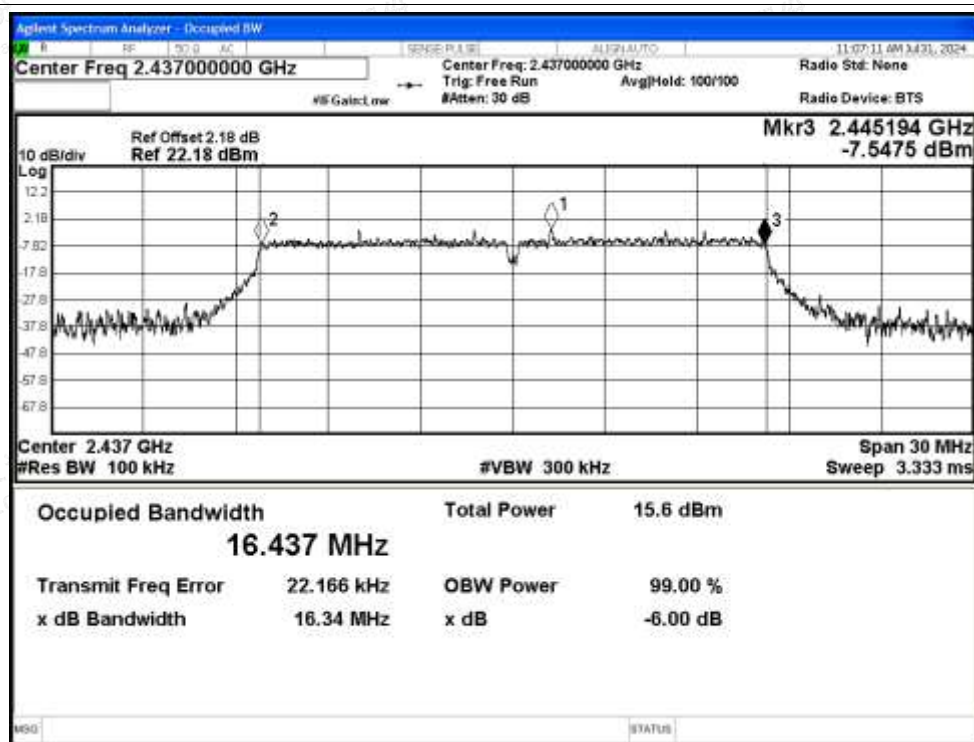


-6dB Bandwidth NVNT g 2412MHz Ant1

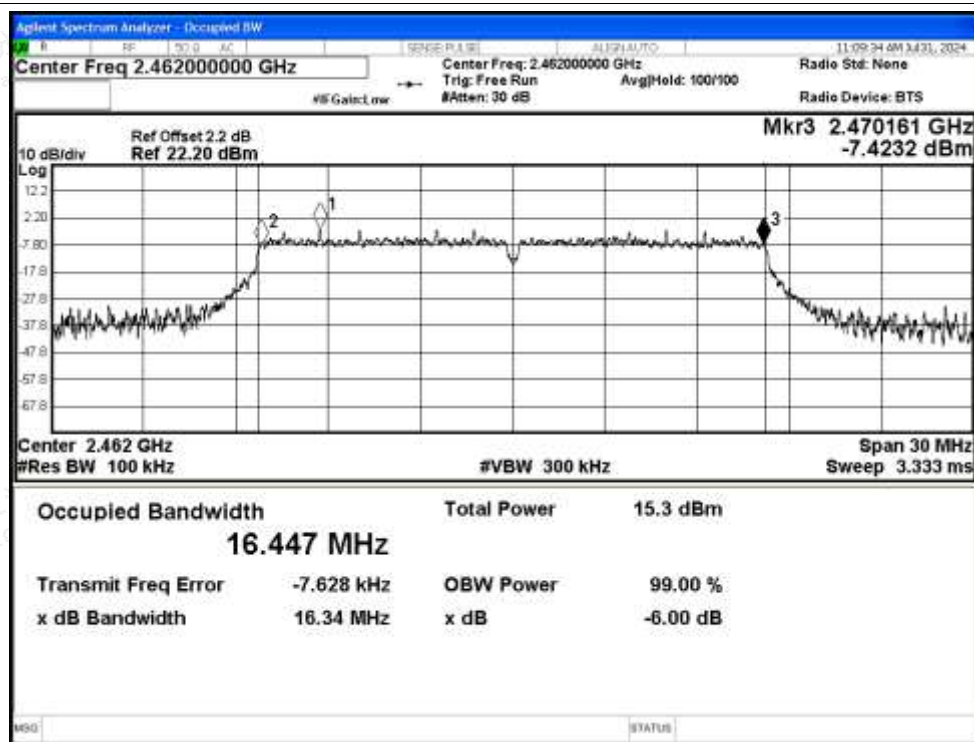




-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

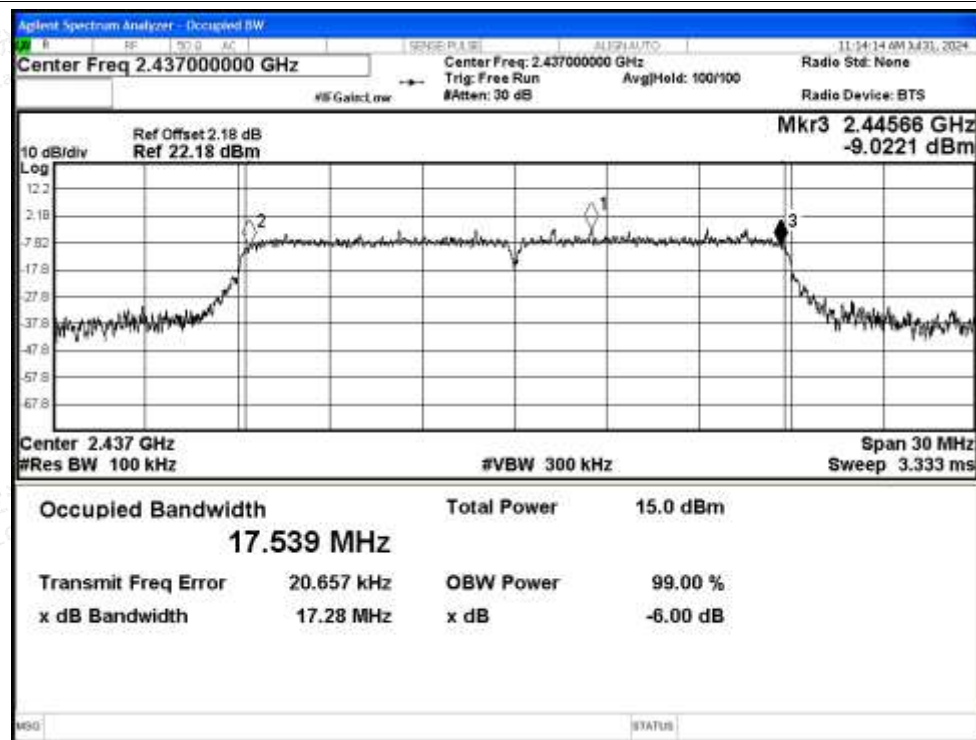




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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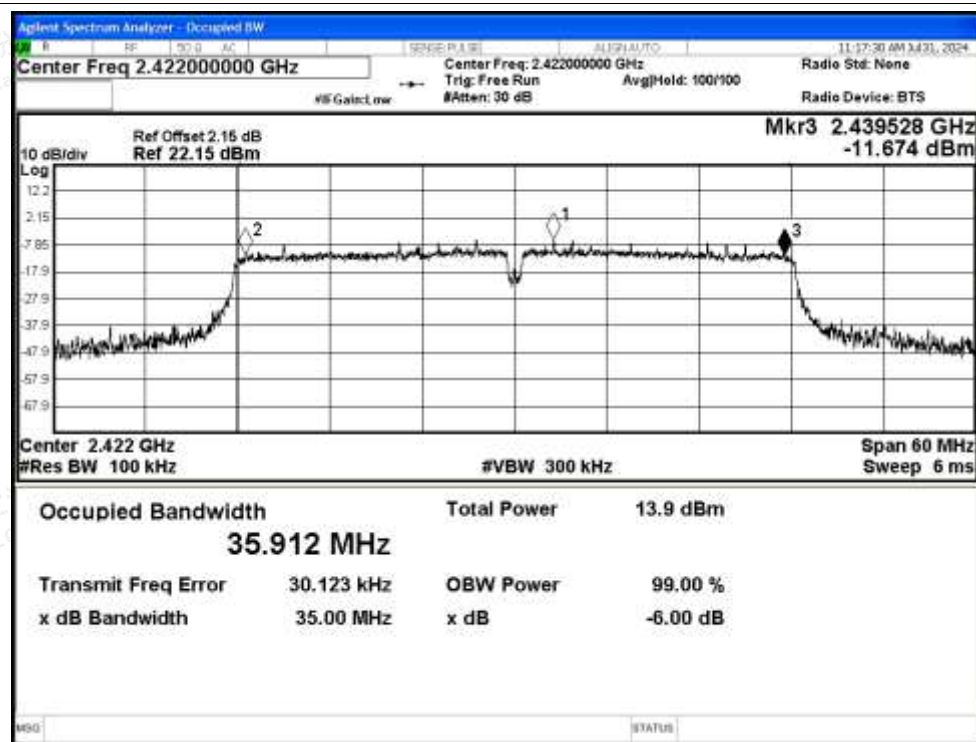
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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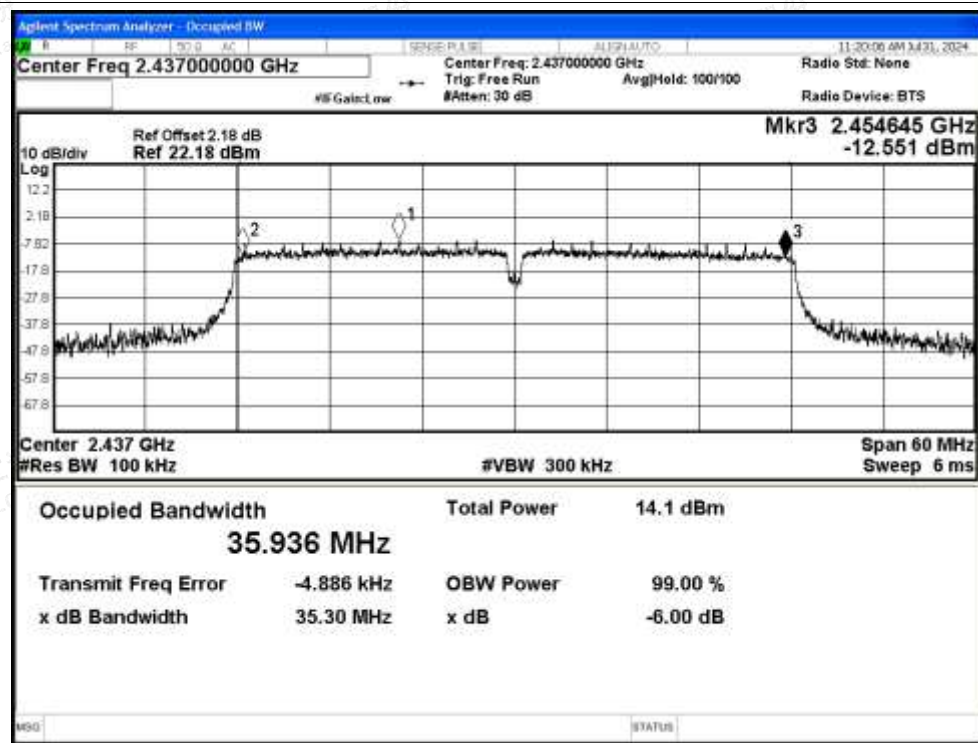
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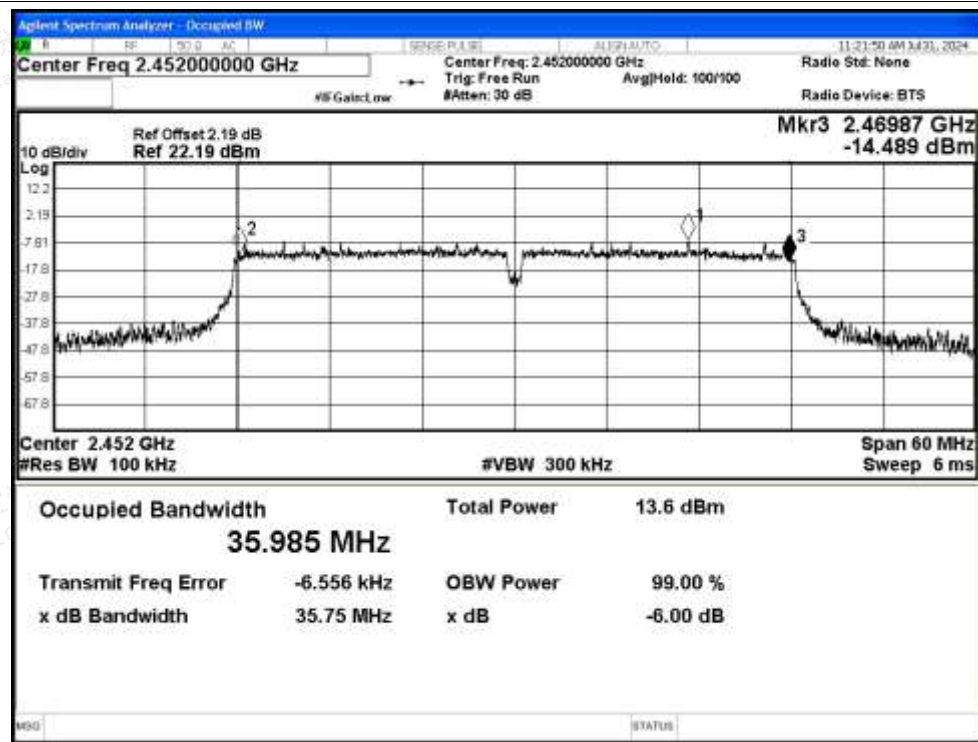
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.84	30	Pass
NVNT	b	2437	Ant1	15.08	30	Pass
NVNT	b	2462	Ant1	15.74	30	Pass
NVNT	g	2412	Ant1	14.15	30	Pass
NVNT	g	2437	Ant1	14.39	30	Pass
NVNT	g	2462	Ant1	13.92	30	Pass
NVNT	n20	2412	Ant1	13.29	30	Pass
NVNT	n20	2437	Ant1	13.42	30	Pass
NVNT	n20	2462	Ant1	13.14	30	Pass
NVNT	n40	2422	Ant1	12.37	30	Pass
NVNT	n40	2437	Ant1	12.42	30	Pass
NVNT	n40	2452	Ant1	11.99	30	Pass





B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.15	8	Pass
NVNT	b	2437	Ant1	-6.68	8	Pass
NVNT	b	2462	Ant1	-9.39	8	Pass
NVNT	g	2412	Ant1	-16.34	8	Pass
NVNT	g	2437	Ant1	-16.56	8	Pass
NVNT	g	2462	Ant1	-16.44	8	Pass
NVNT	n20	2412	Ant1	-16.63	8	Pass
NVNT	n20	2437	Ant1	-16.81	8	Pass
NVNT	n20	2462	Ant1	-18.5	8	Pass
NVNT	n40	2422	Ant1	-20.84	8	Pass
NVNT	n40	2437	Ant1	-21.42	8	Pass
NVNT	n40	2452	Ant1	-21.68	8	Pass



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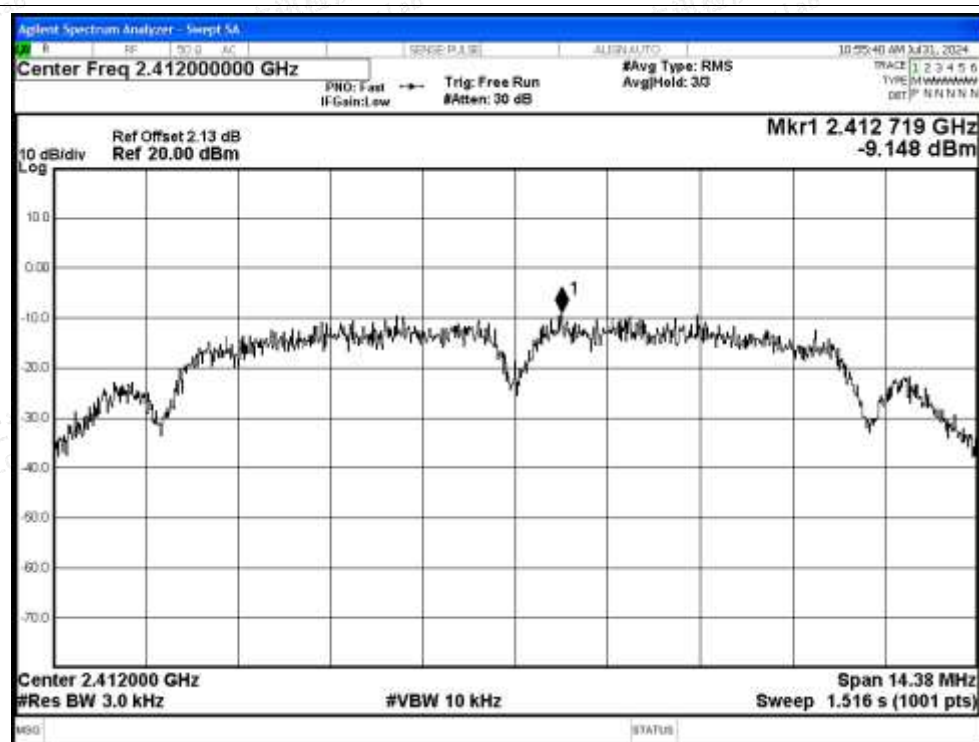
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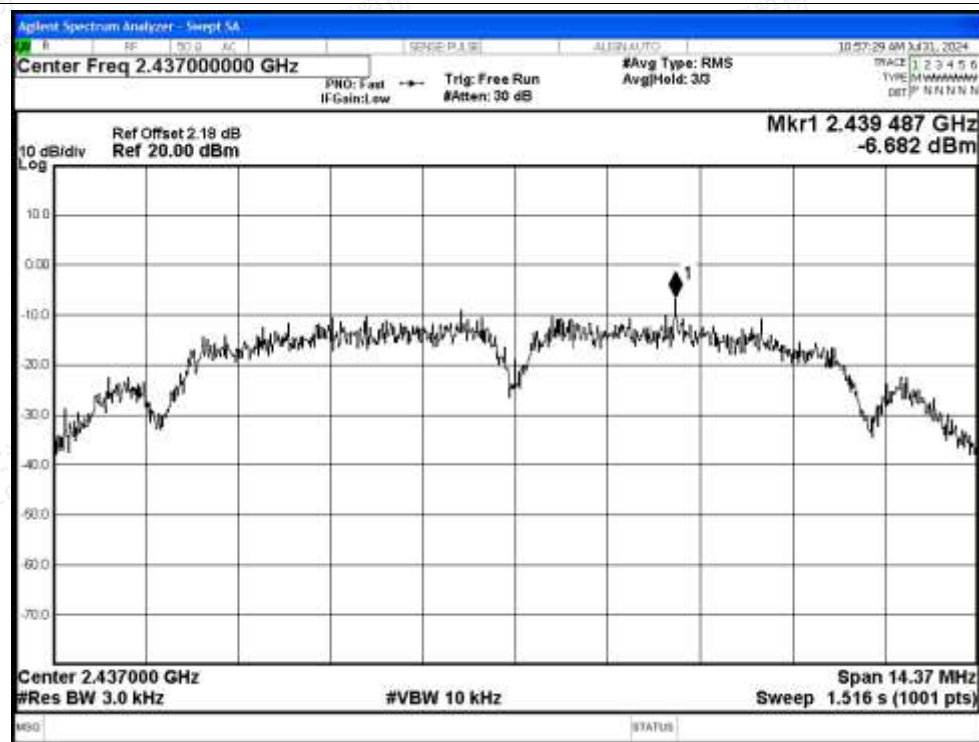


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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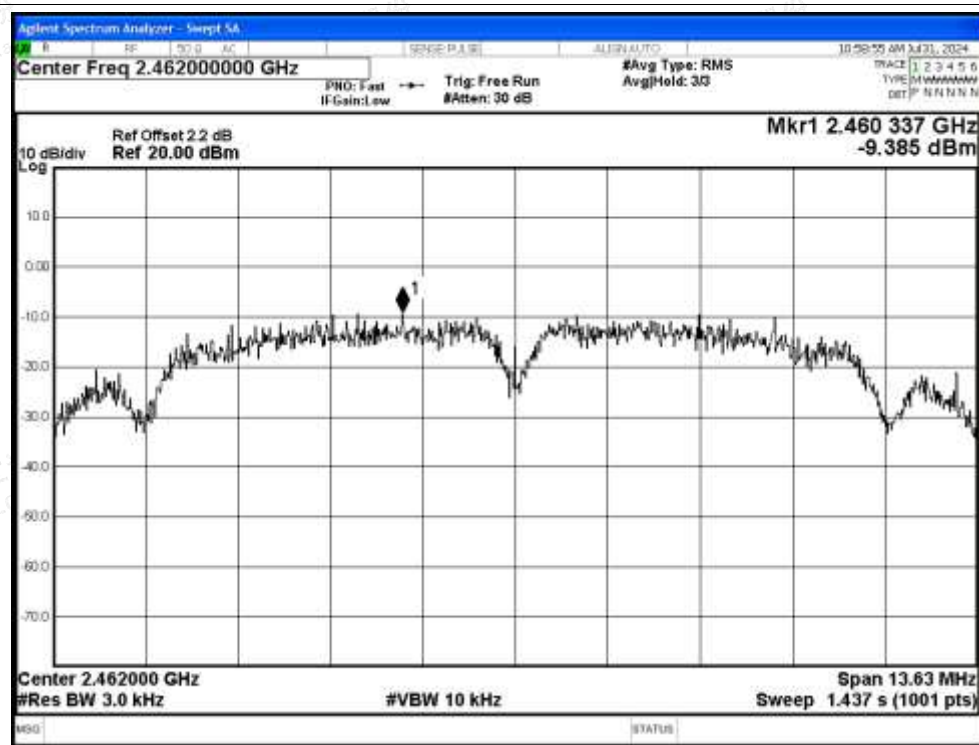
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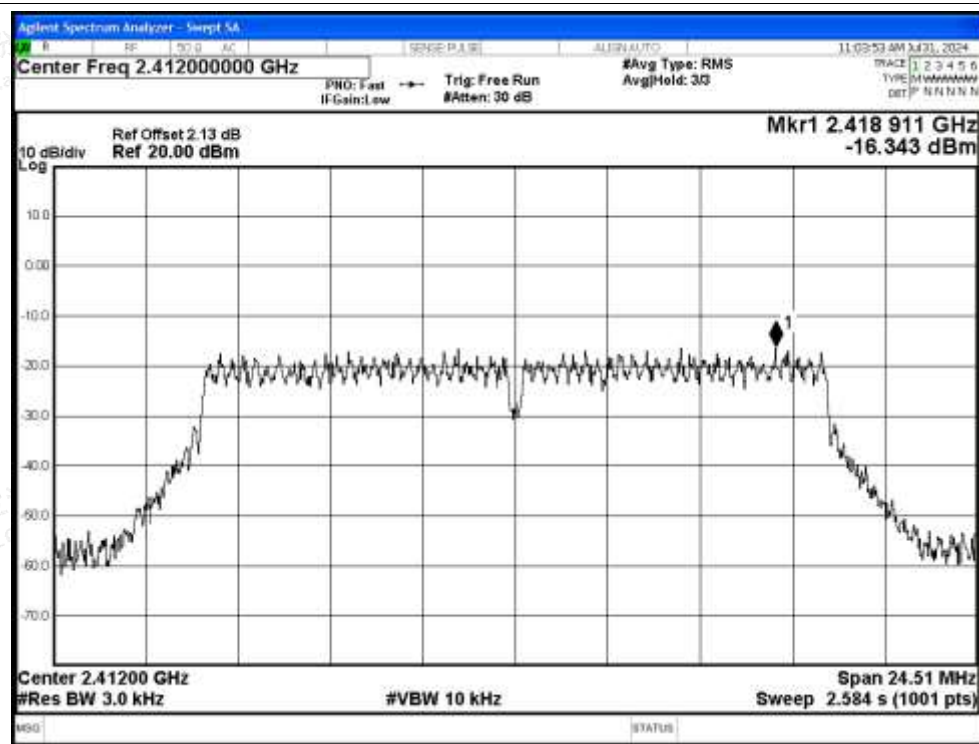
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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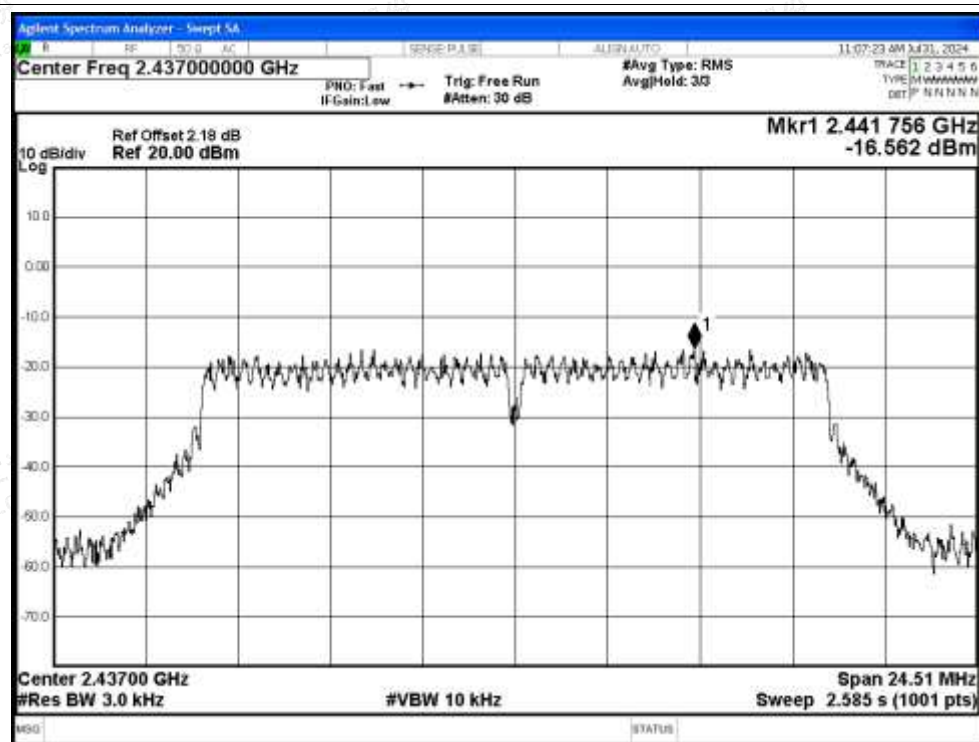
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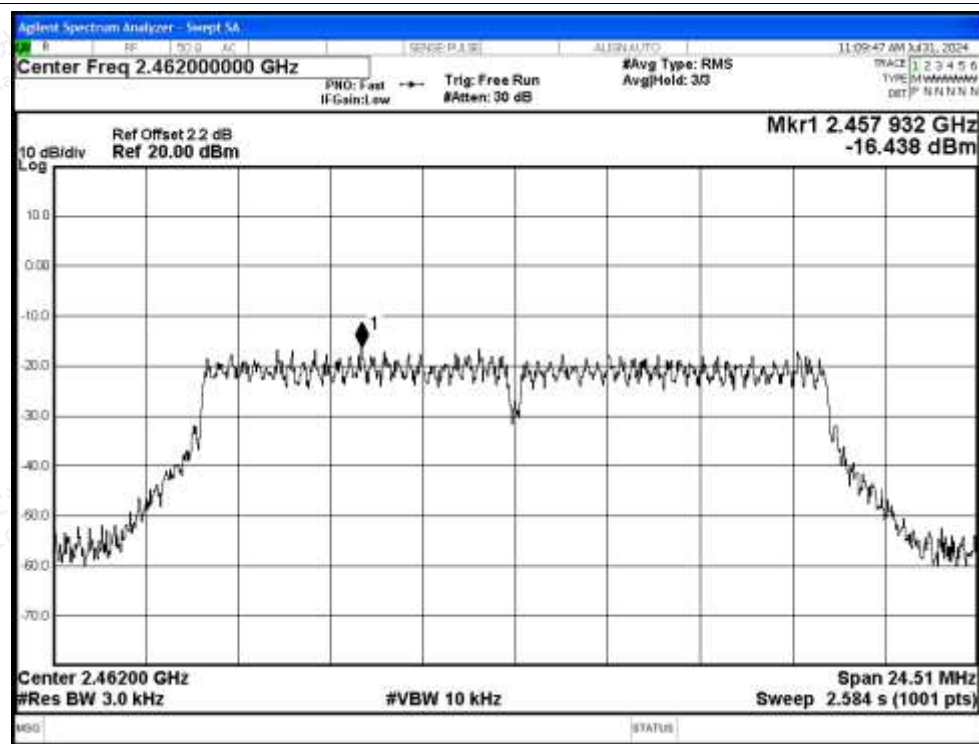
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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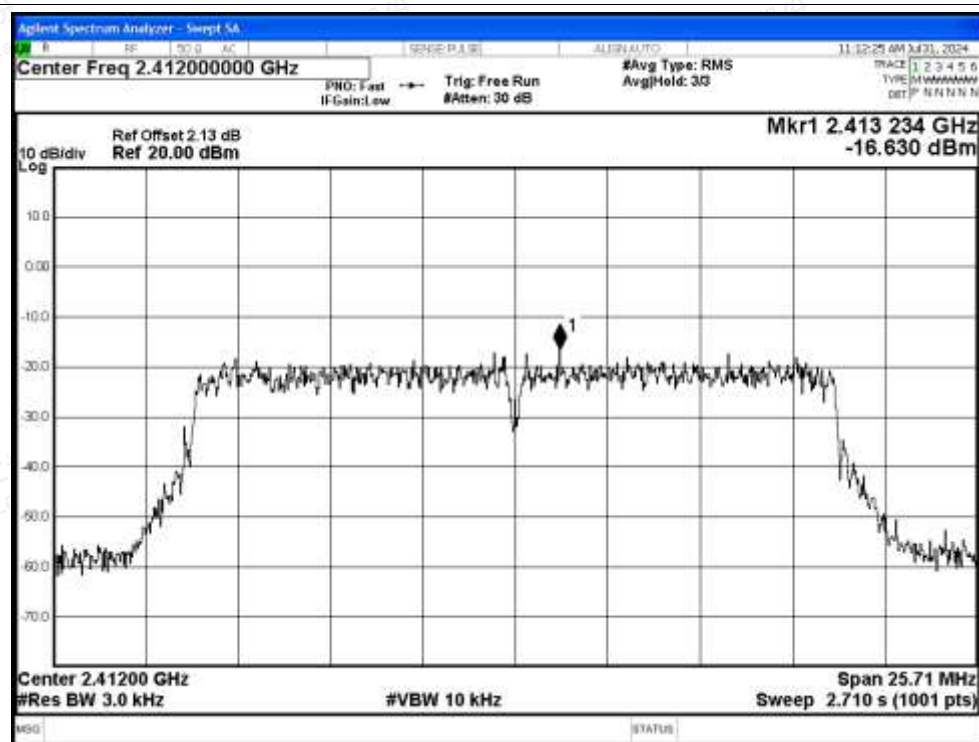
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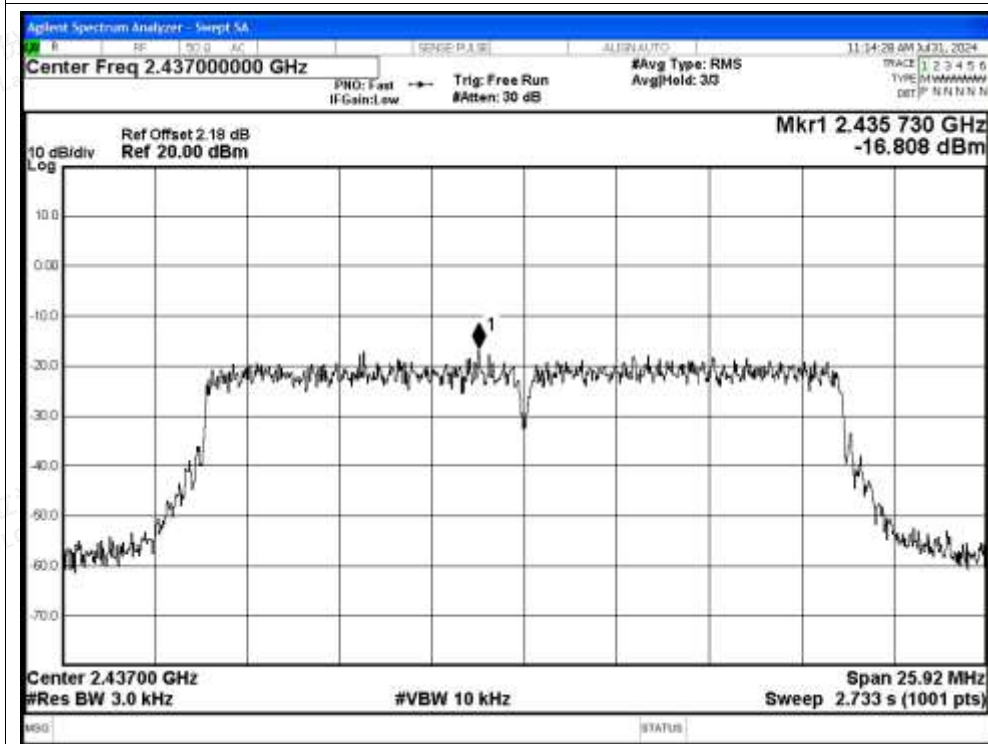
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



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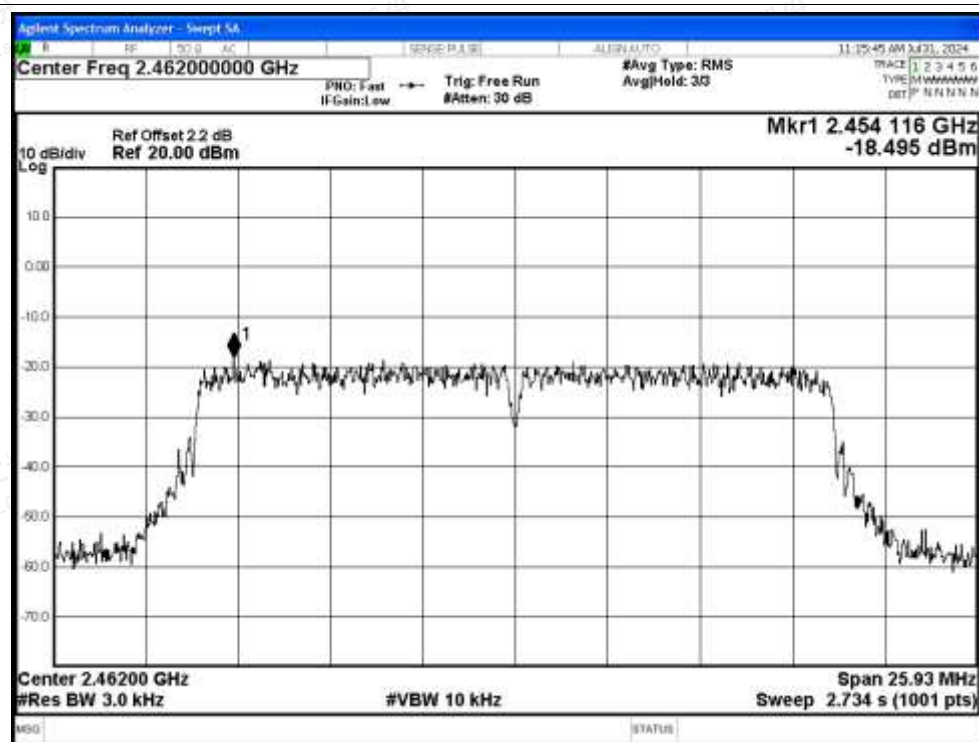
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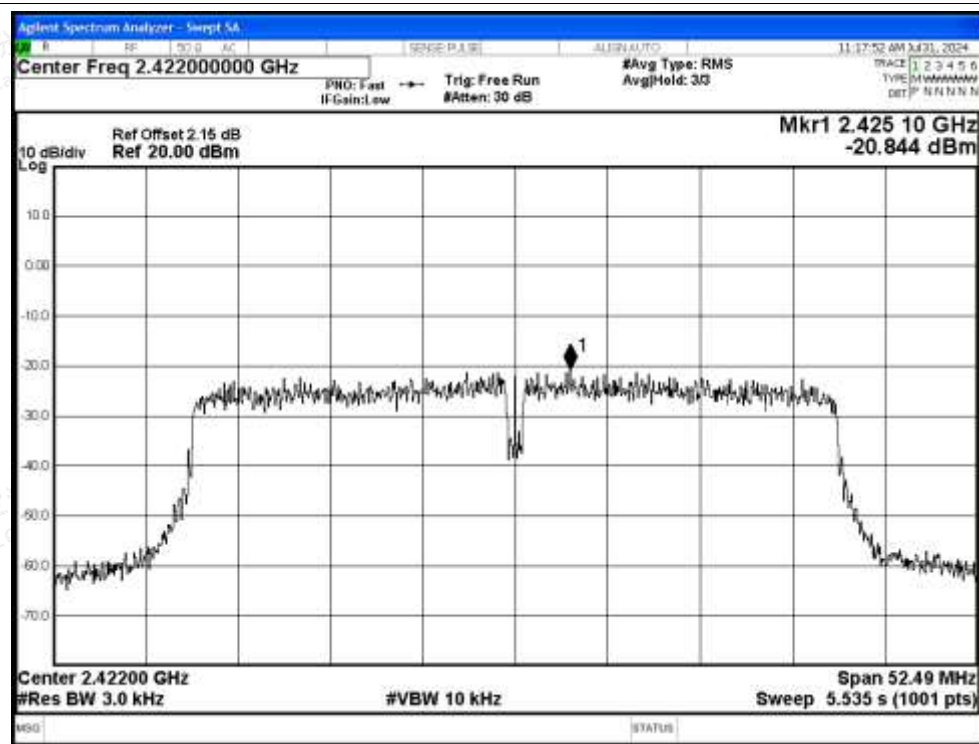
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PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



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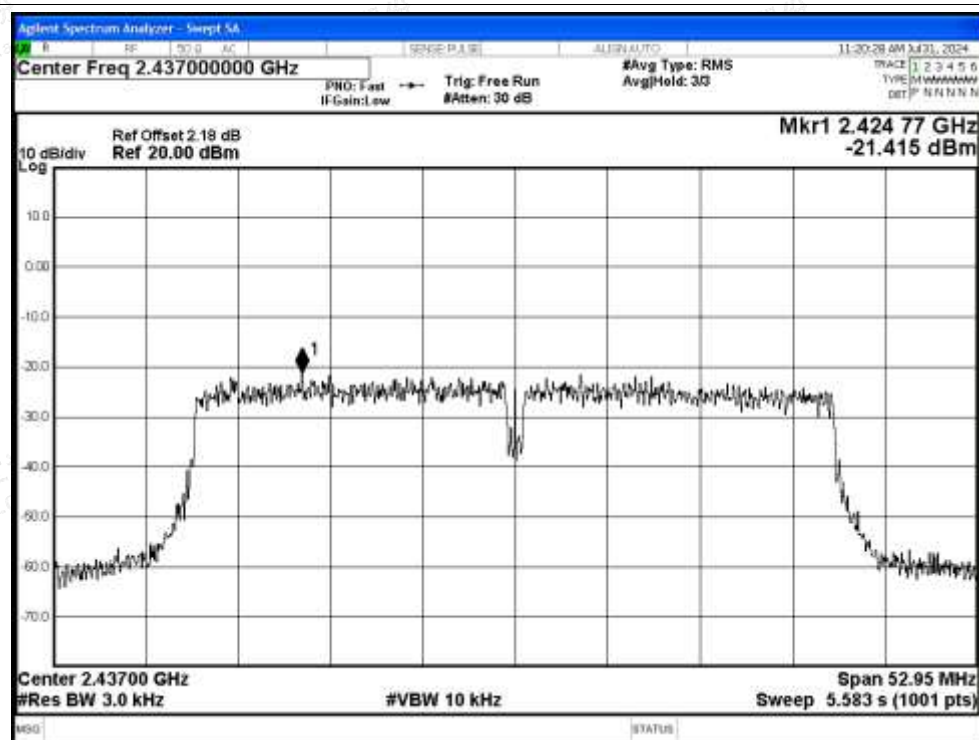
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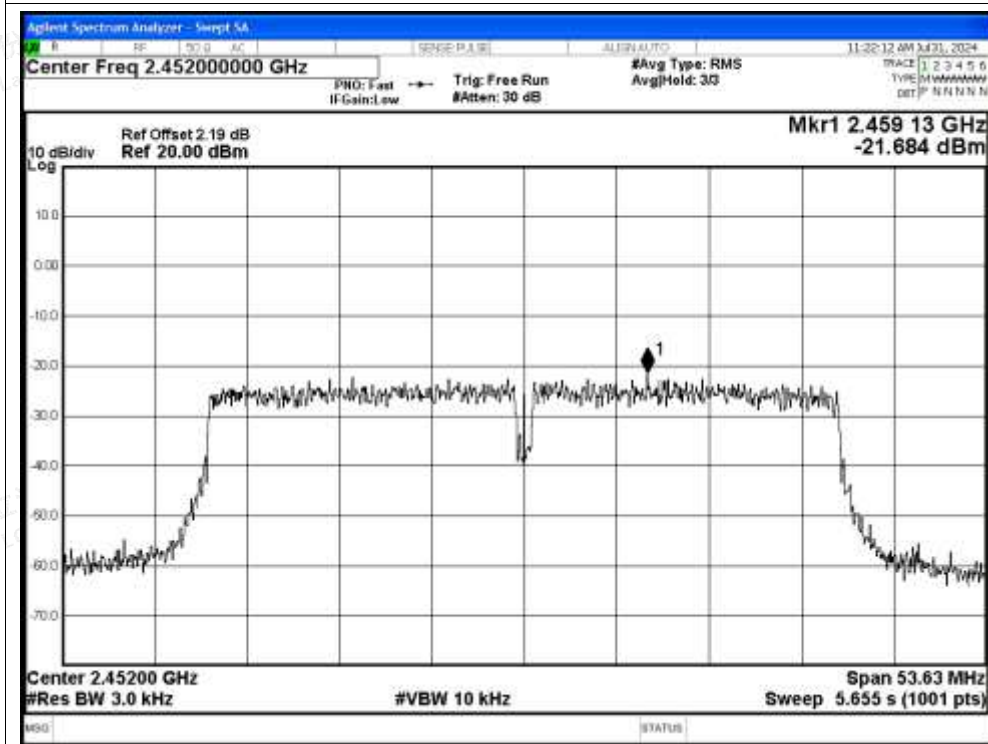
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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.5	-20	Pass
NVNT	b	2462	Ant1	-58.72	-20	Pass
NVNT	g	2412	Ant1	-30.27	-20	Pass
NVNT	g	2462	Ant1	-39.65	-20	Pass
NVNT	n20	2412	Ant1	-28.54	-20	Pass
NVNT	n20	2462	Ant1	-38.09	-20	Pass
NVNT	n40	2422	Ant1	-32.74	-20	Pass
NVNT	n40	2452	Ant1	-35.87	-20	Pass



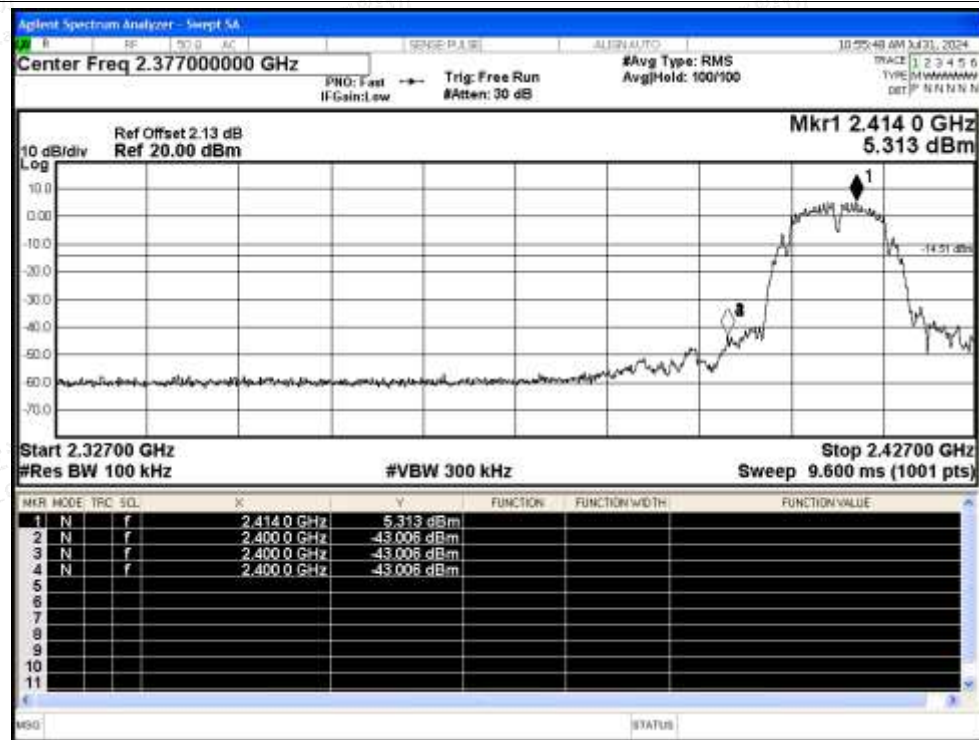


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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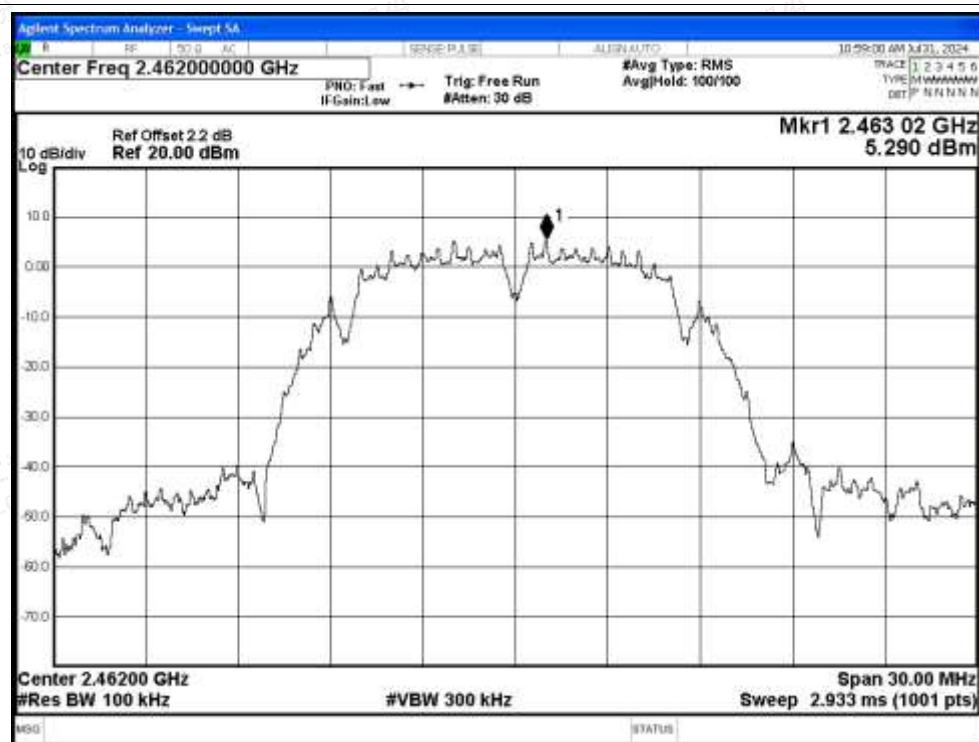
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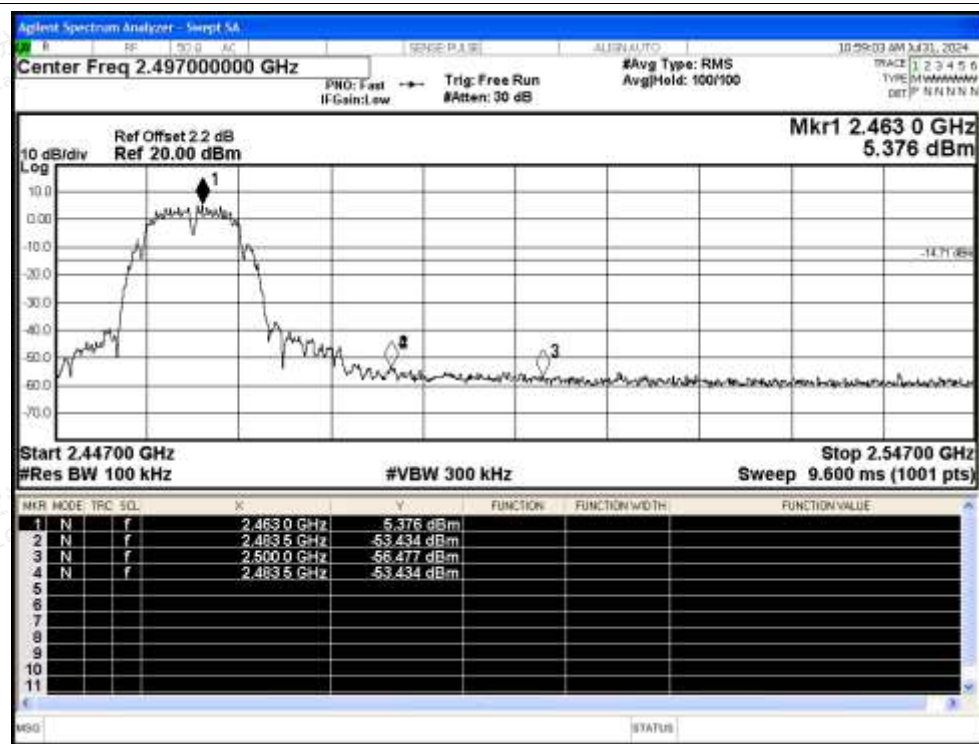
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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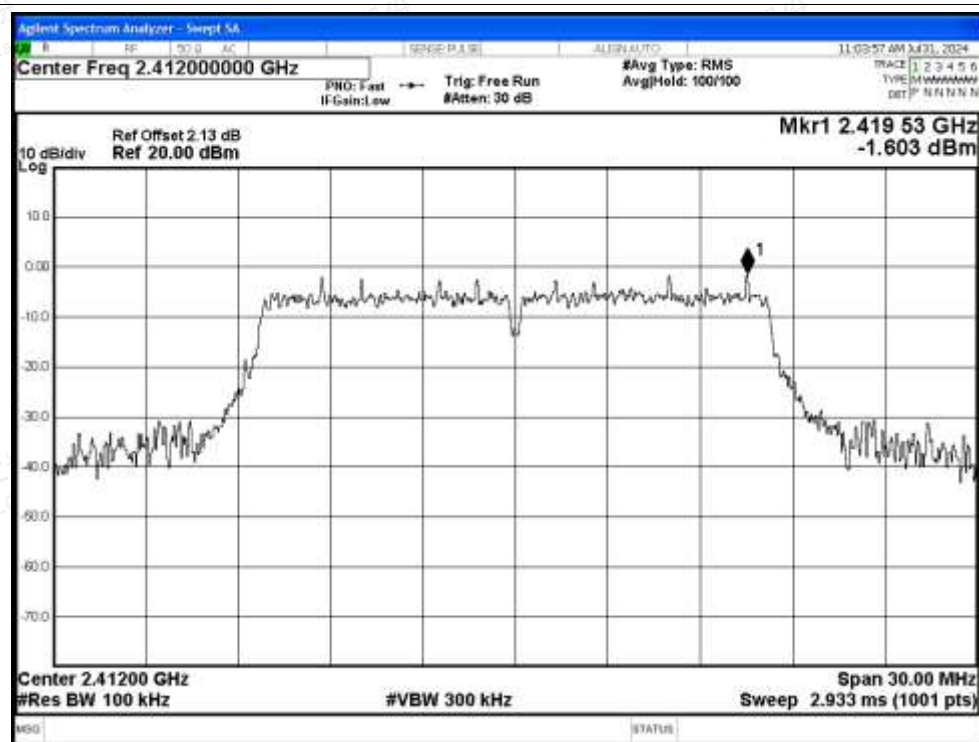
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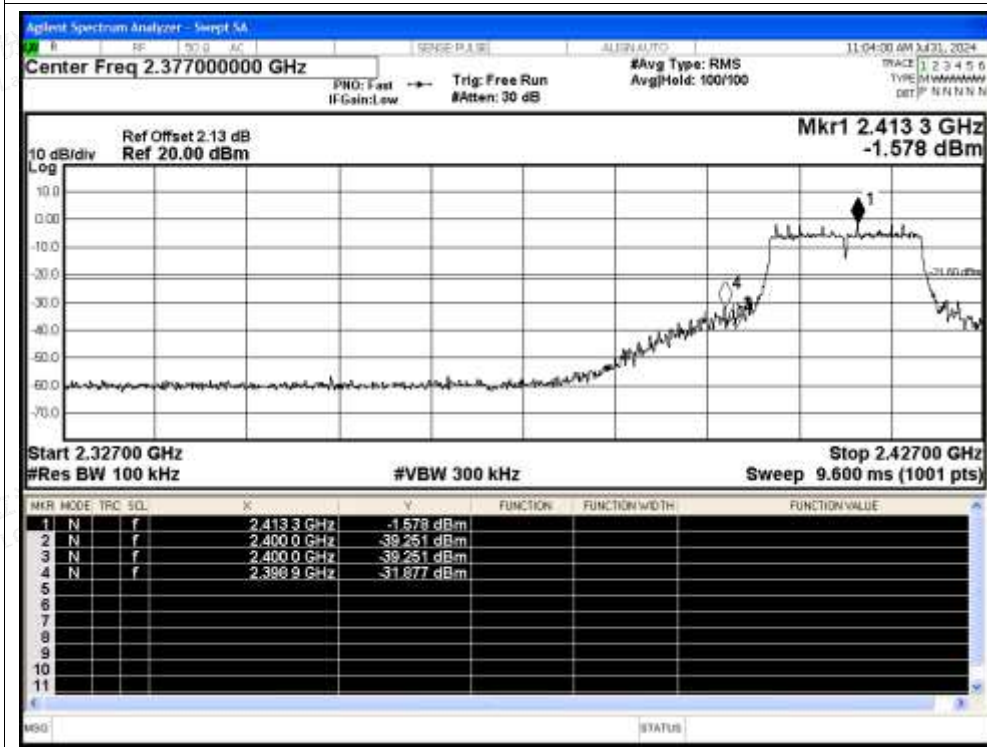
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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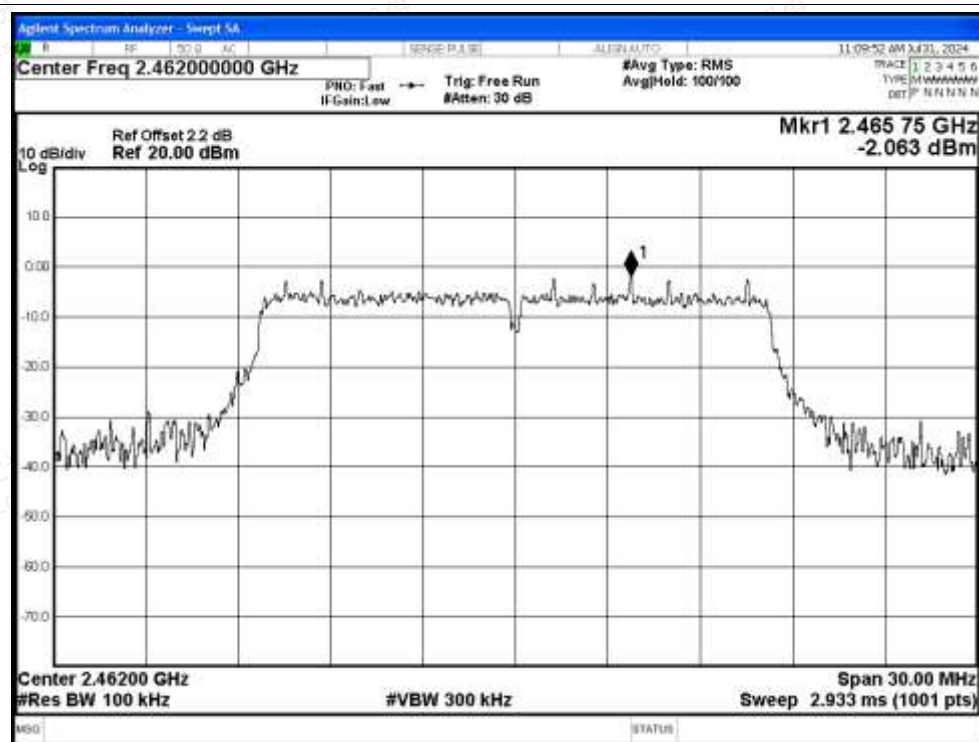
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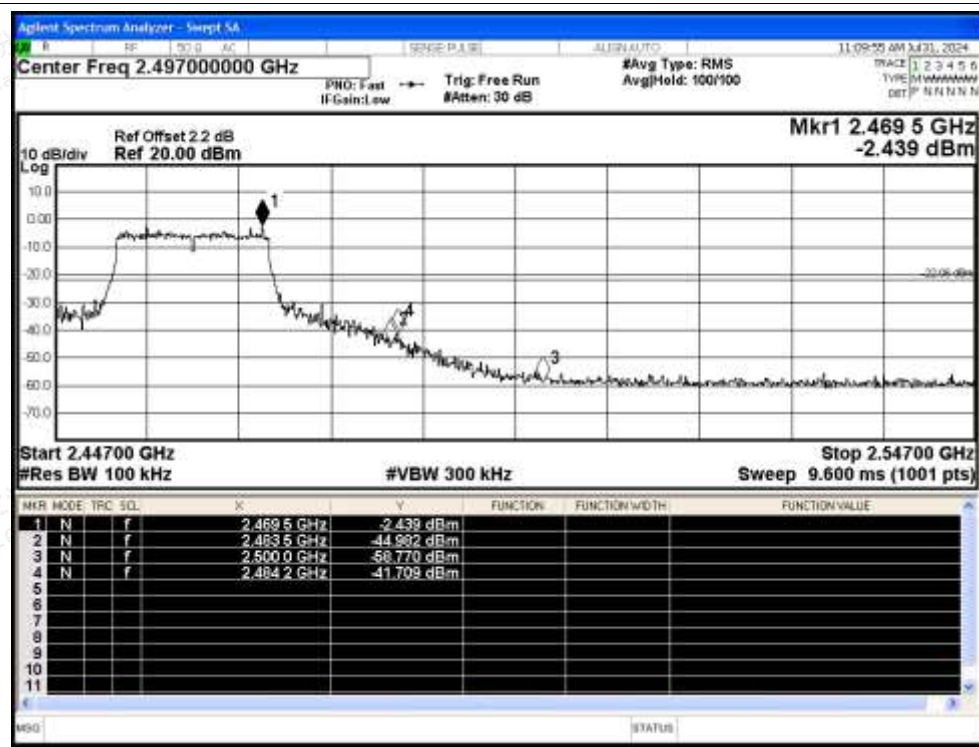
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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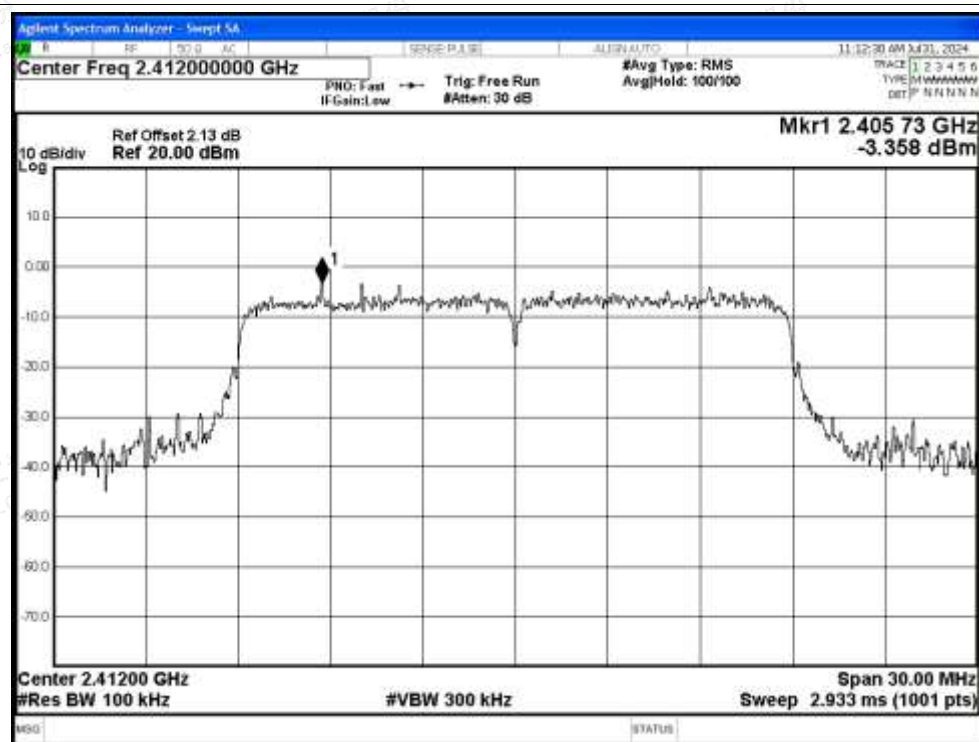
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Band Edge NVNT n20 2412MHz Ant1 Ref



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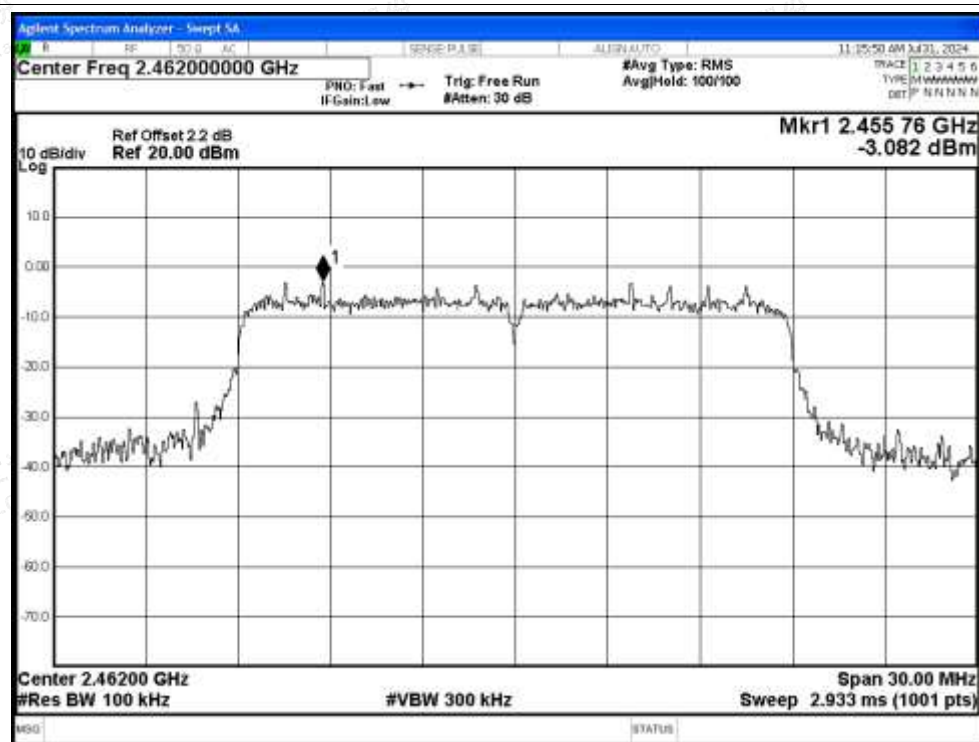
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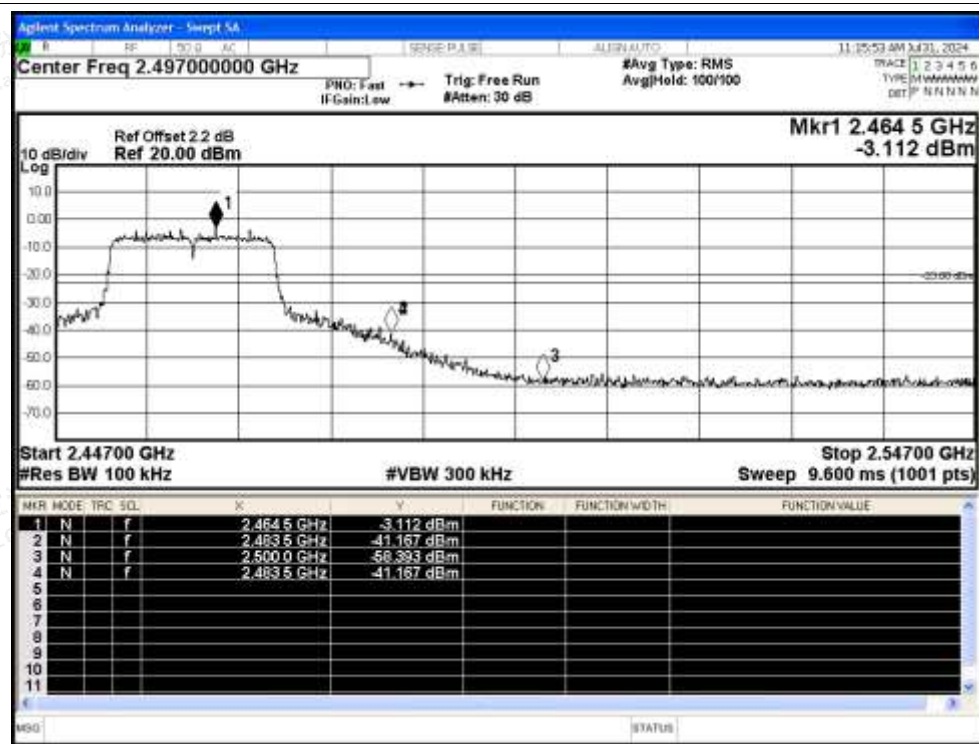
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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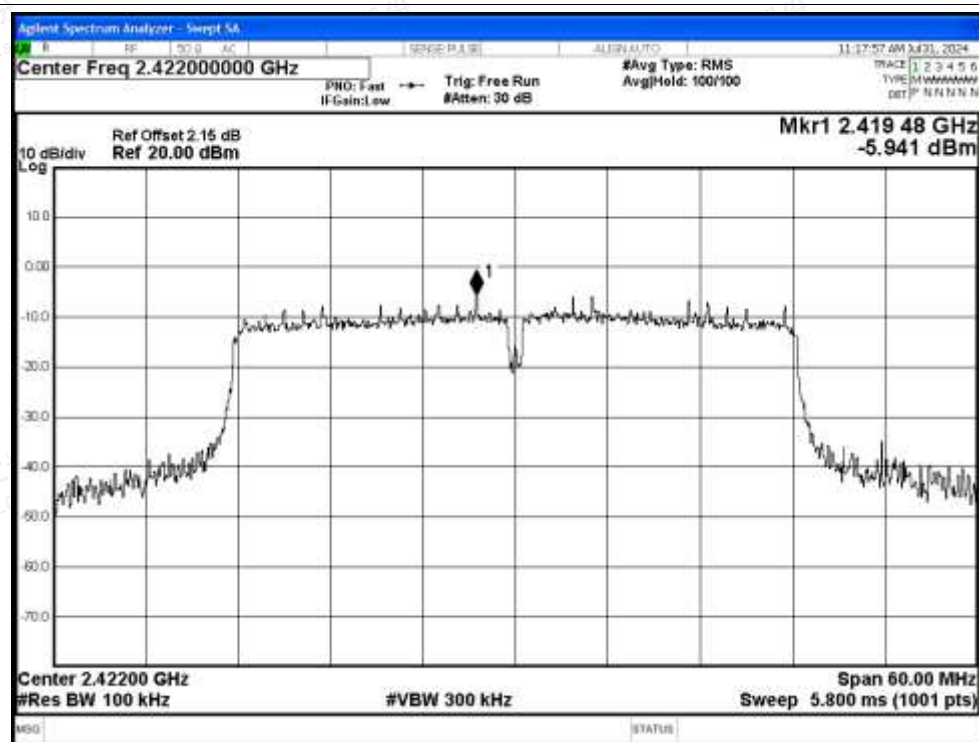
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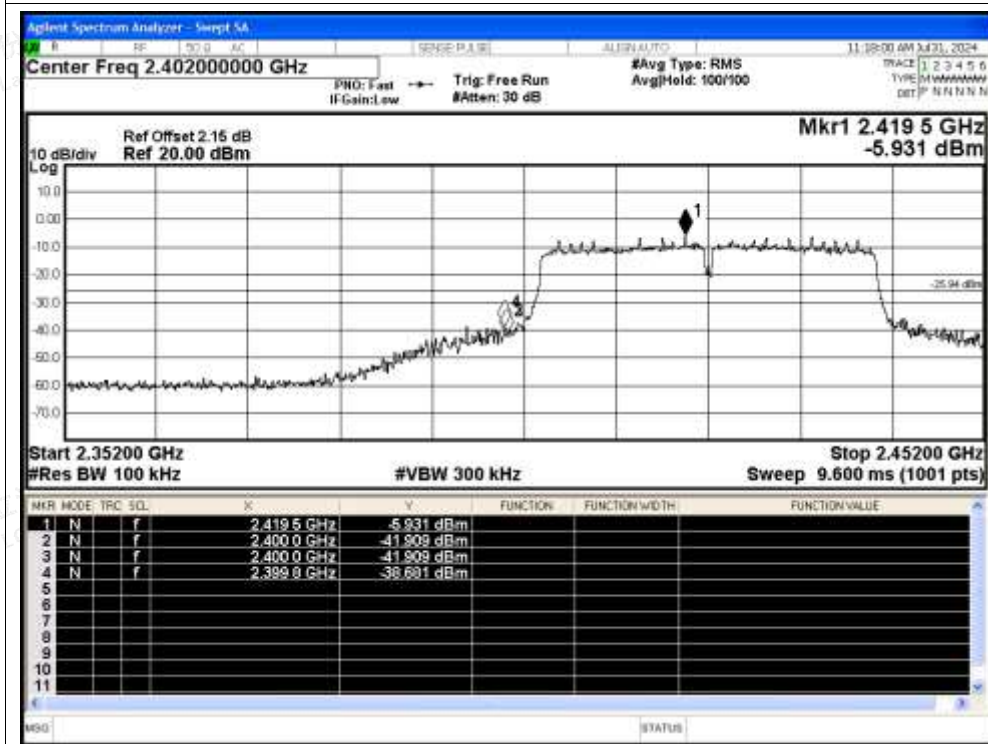
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Band Edge NVNT n40 2422MHz Ant1 Ref



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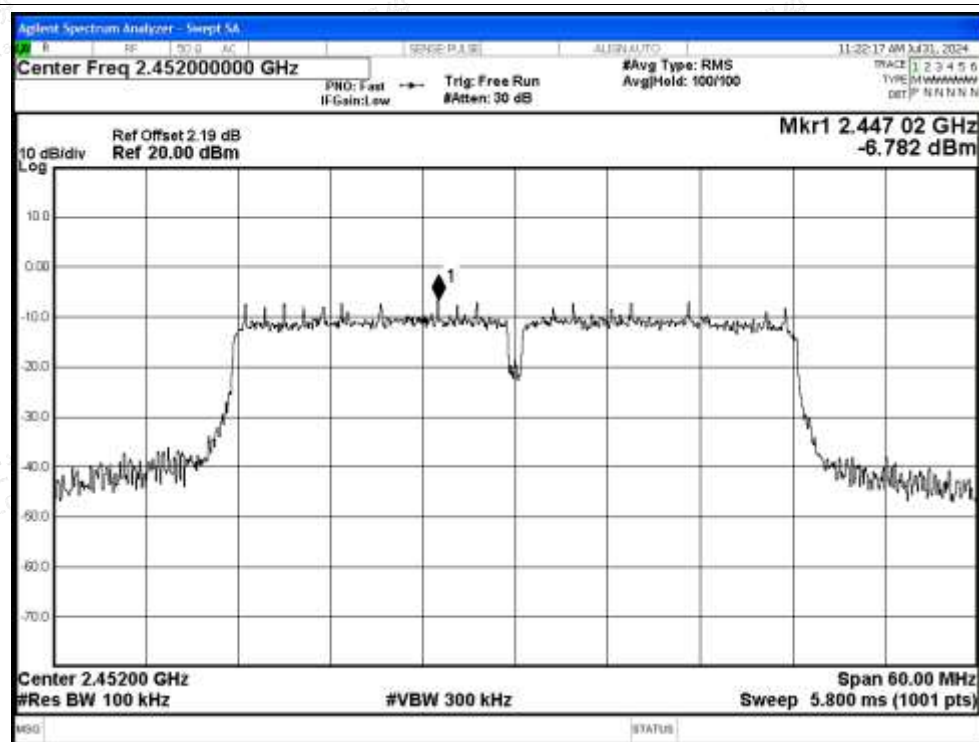
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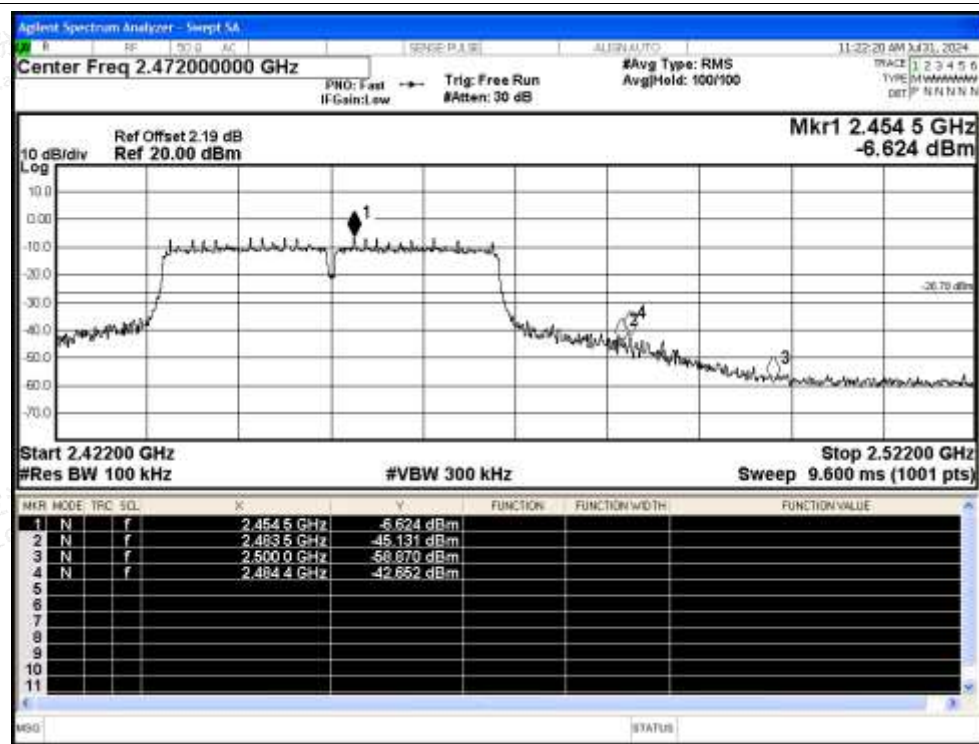
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.48	-20	Pass
NVNT	b	2437	Ant1	-50	-20	Pass
NVNT	b	2462	Ant1	-51	-20	Pass
NVNT	g	2412	Ant1	-45.01	-20	Pass
NVNT	g	2437	Ant1	-44.77	-20	Pass
NVNT	g	2462	Ant1	-43.91	-20	Pass
NVNT	n20	2412	Ant1	-42.38	-20	Pass
NVNT	n20	2437	Ant1	-42.99	-20	Pass
NVNT	n20	2462	Ant1	-43.38	-20	Pass
NVNT	n40	2422	Ant1	-40.66	-20	Pass
NVNT	n40	2437	Ant1	-39.4	-20	Pass
NVNT	n40	2452	Ant1	-39.61	-20	Pass



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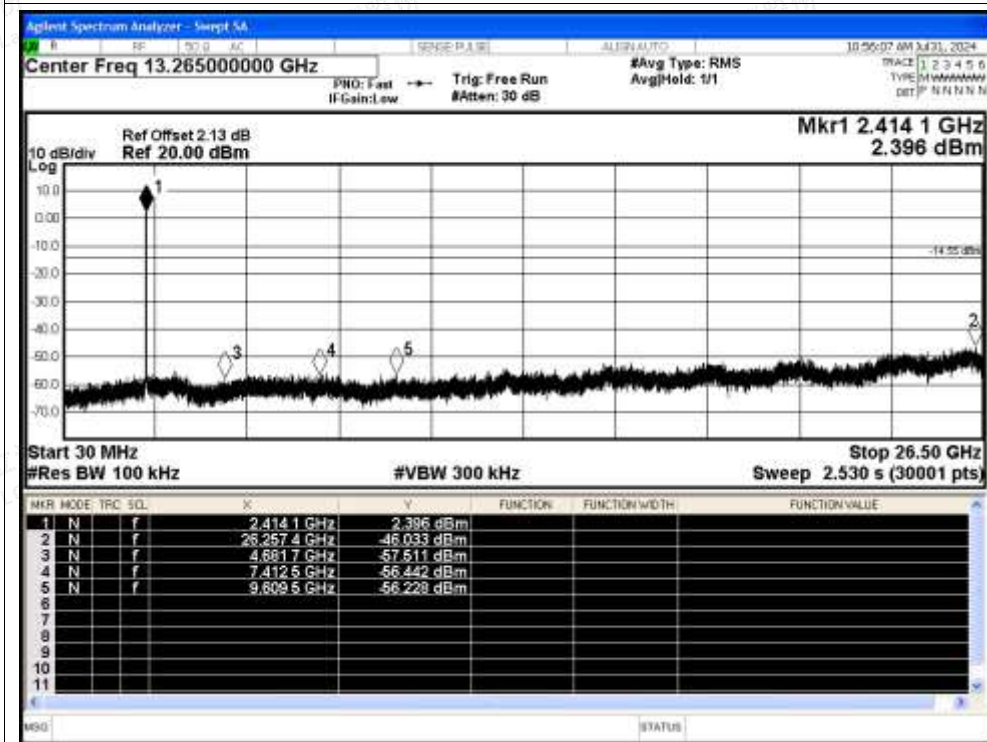


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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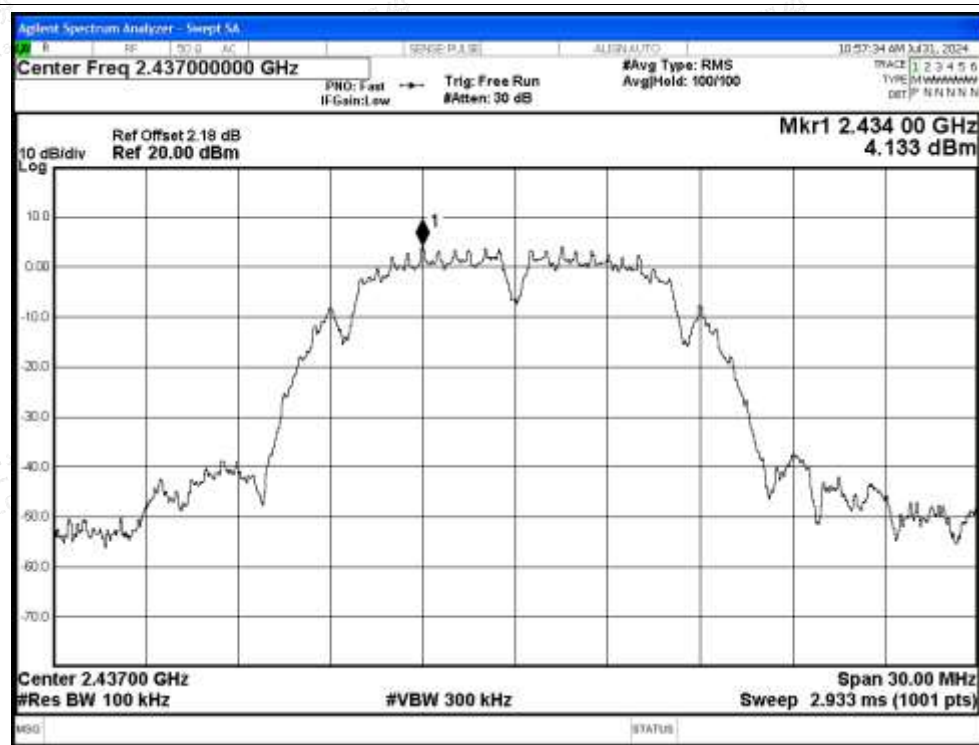
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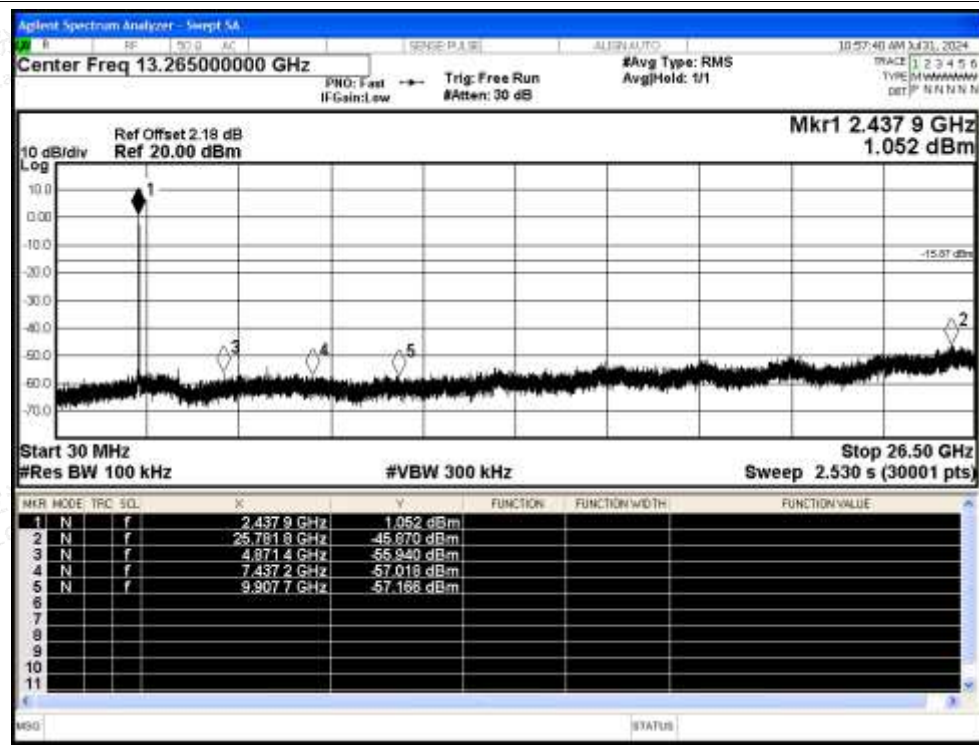
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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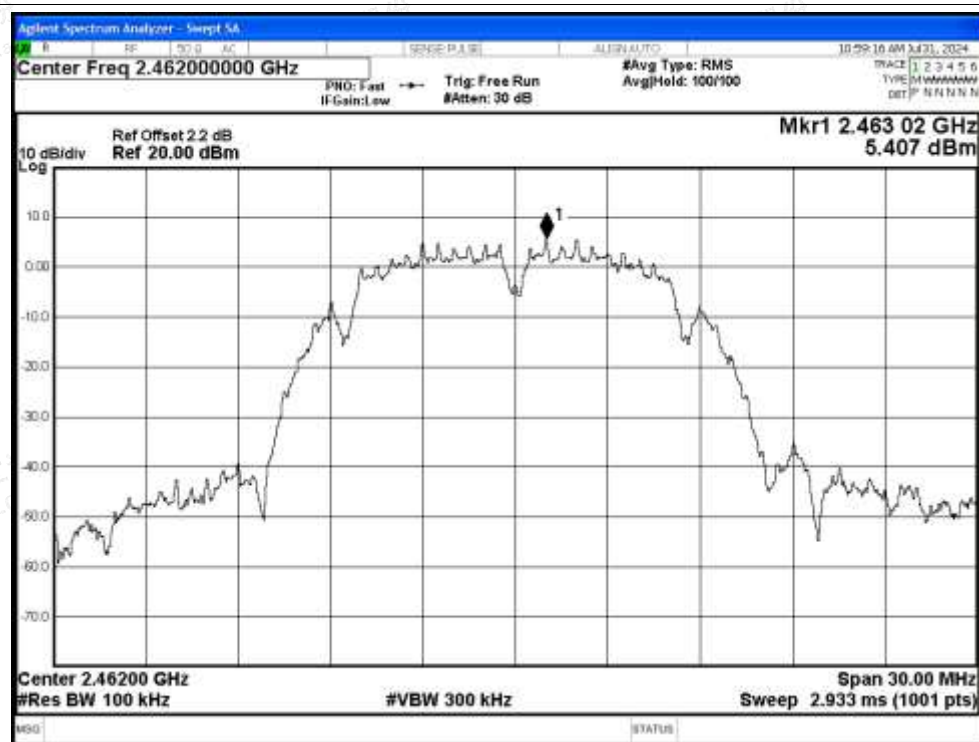
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

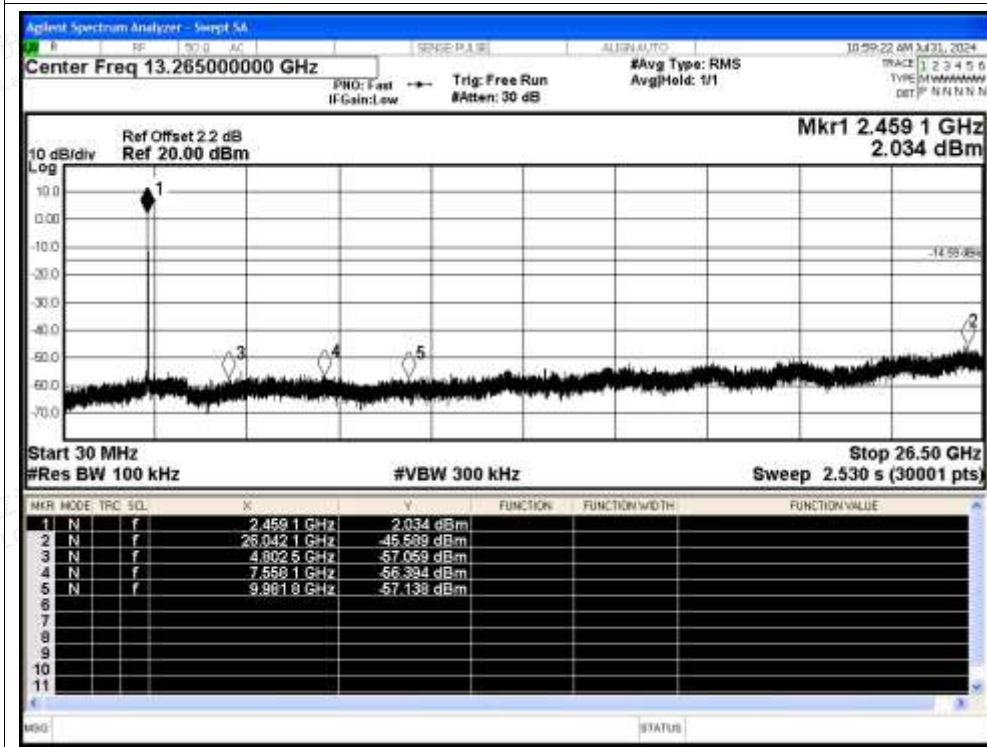
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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

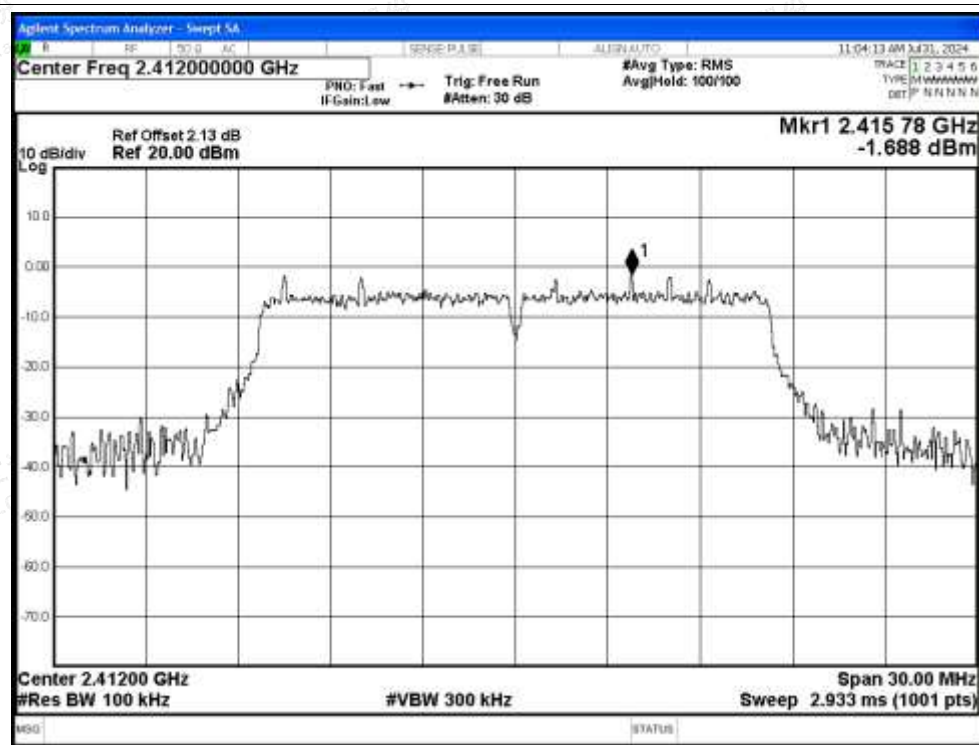
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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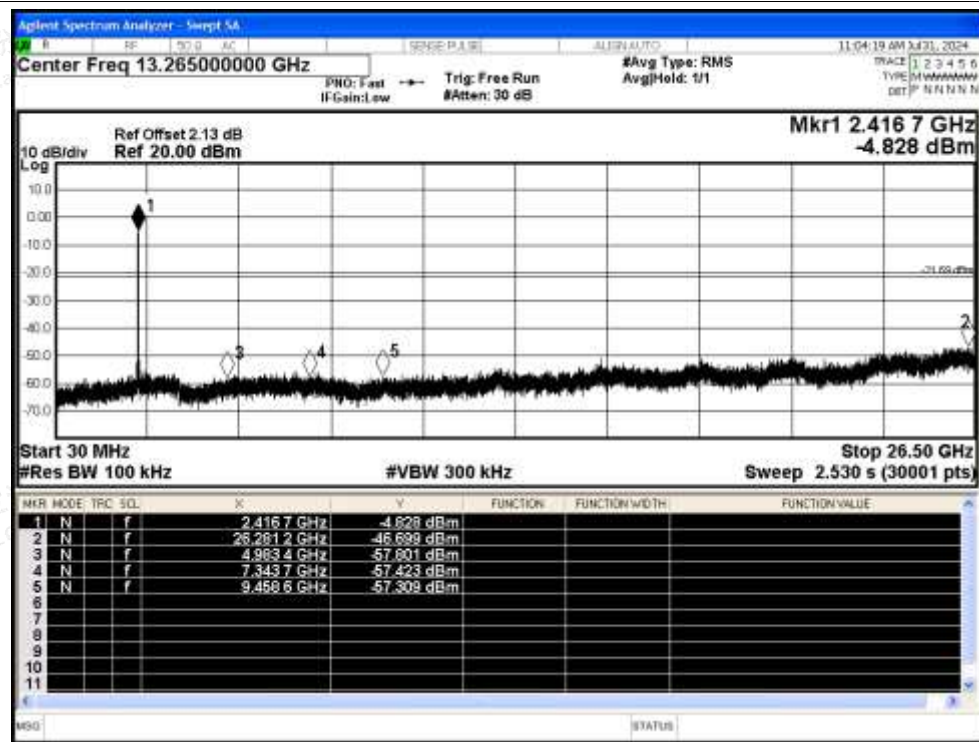
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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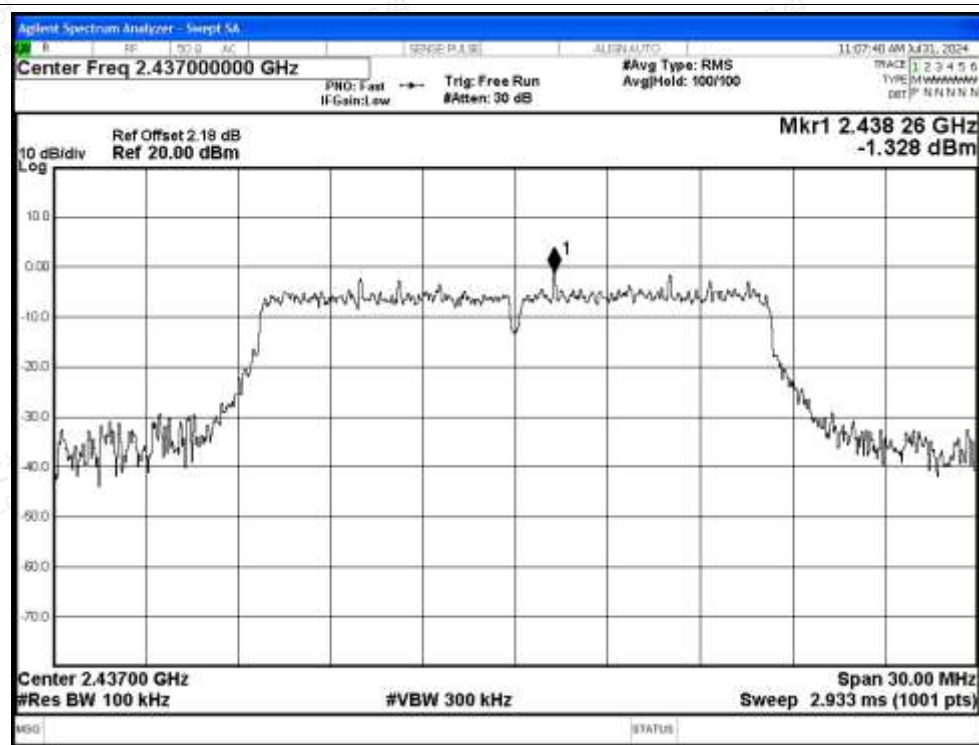
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

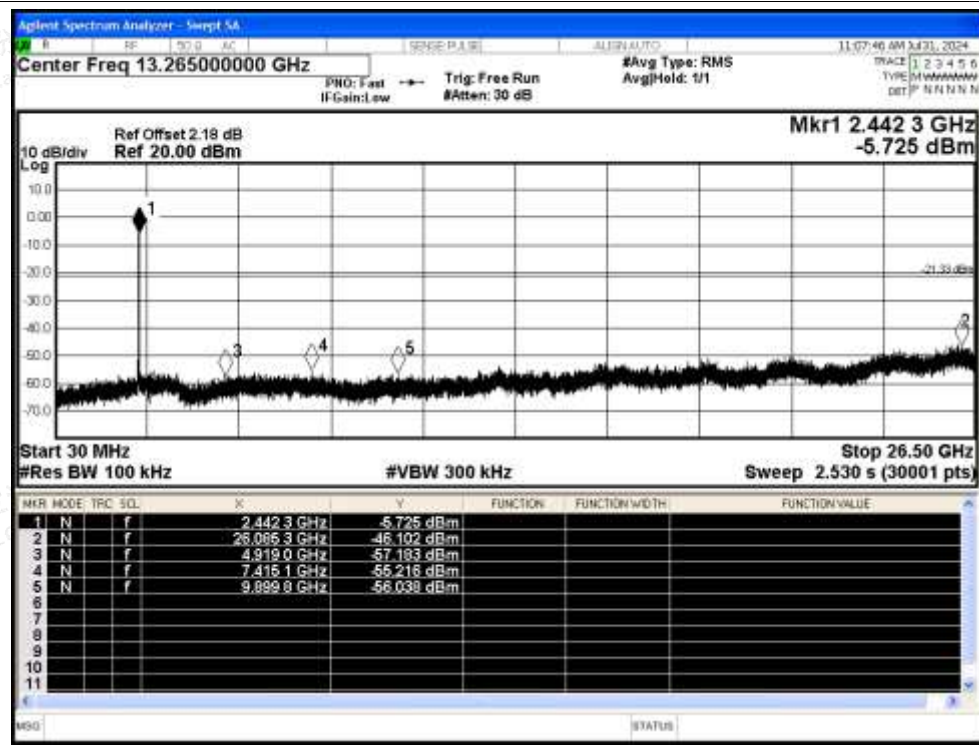
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

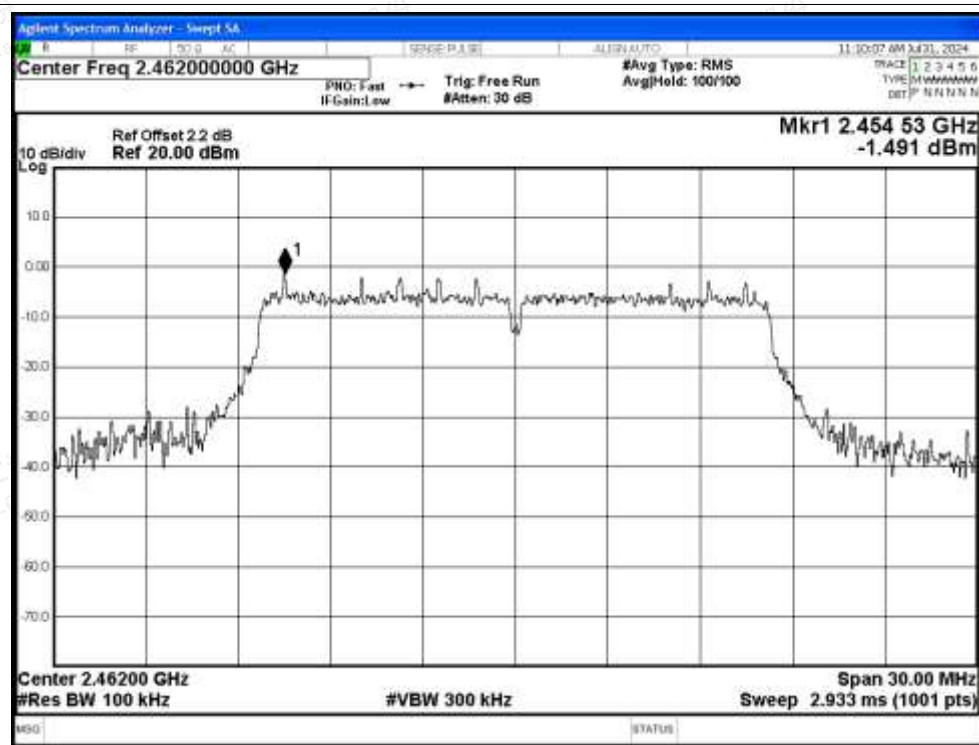
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

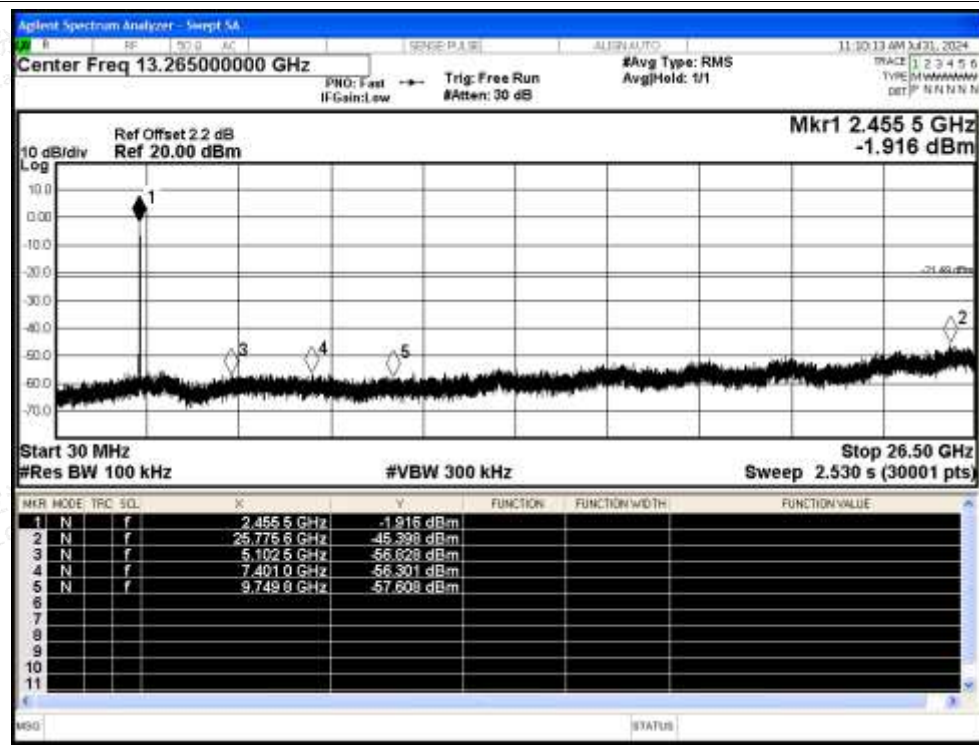
Scan code to check authenticity



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

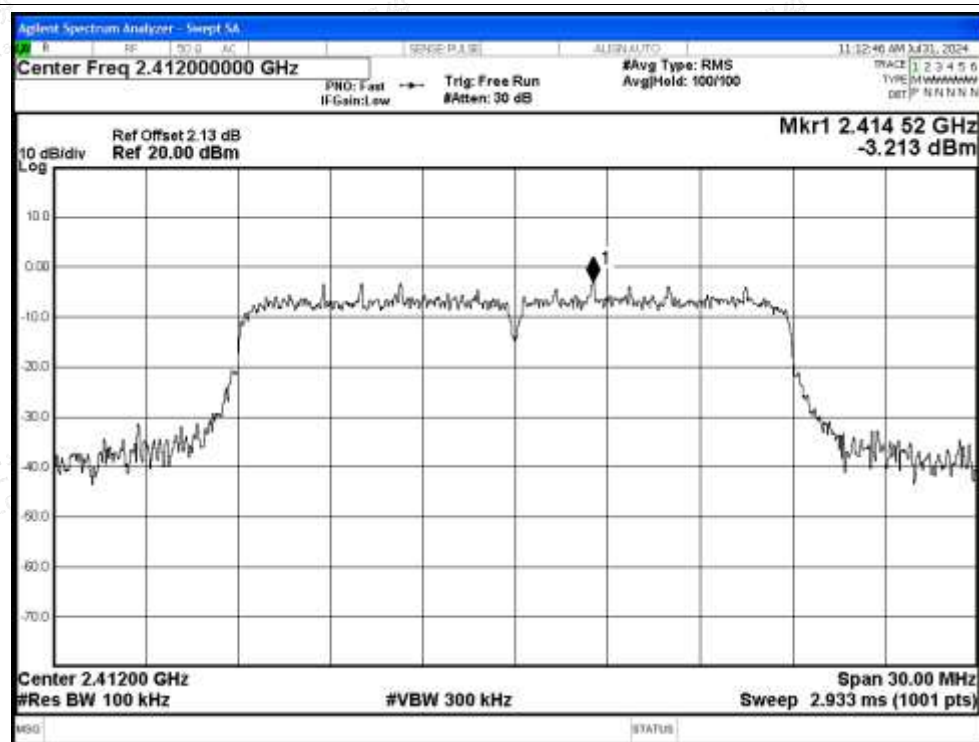
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

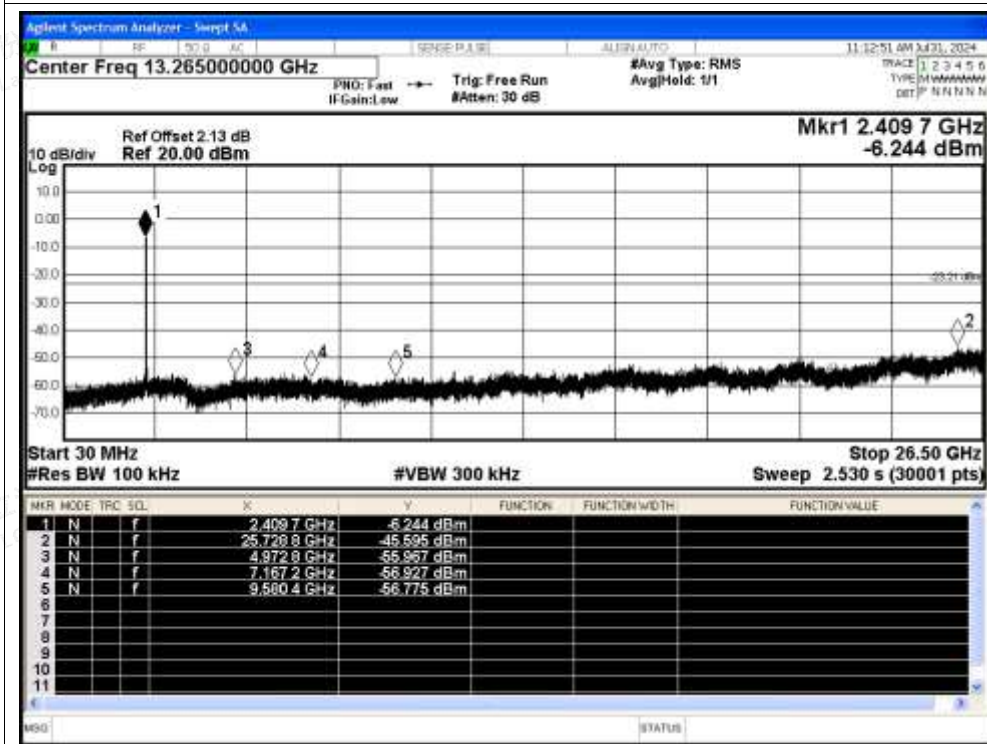
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

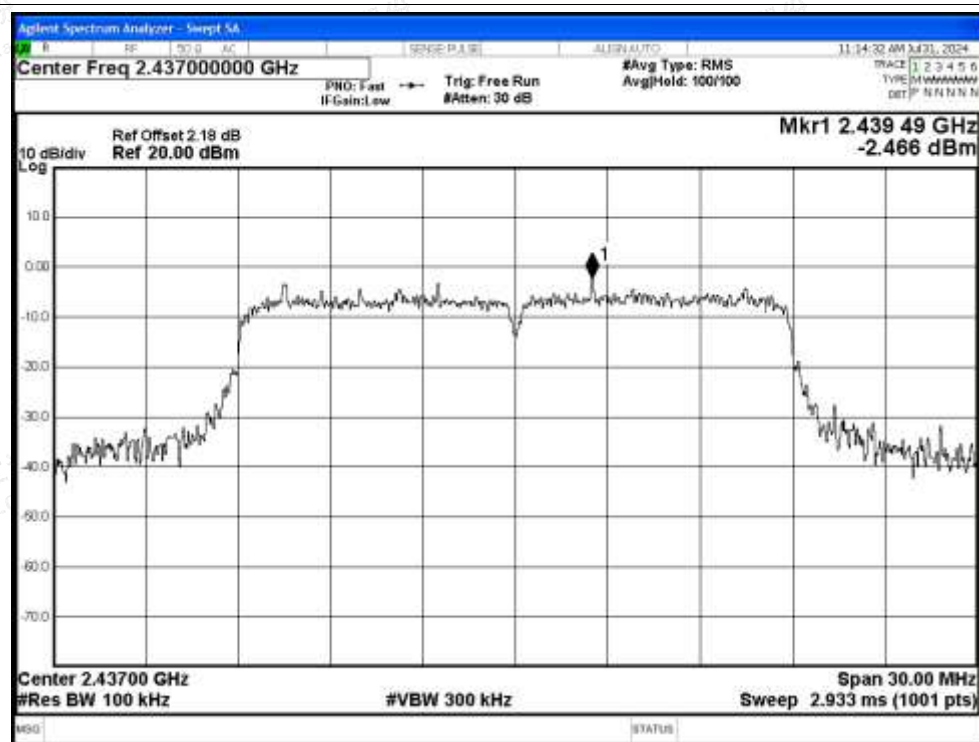
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

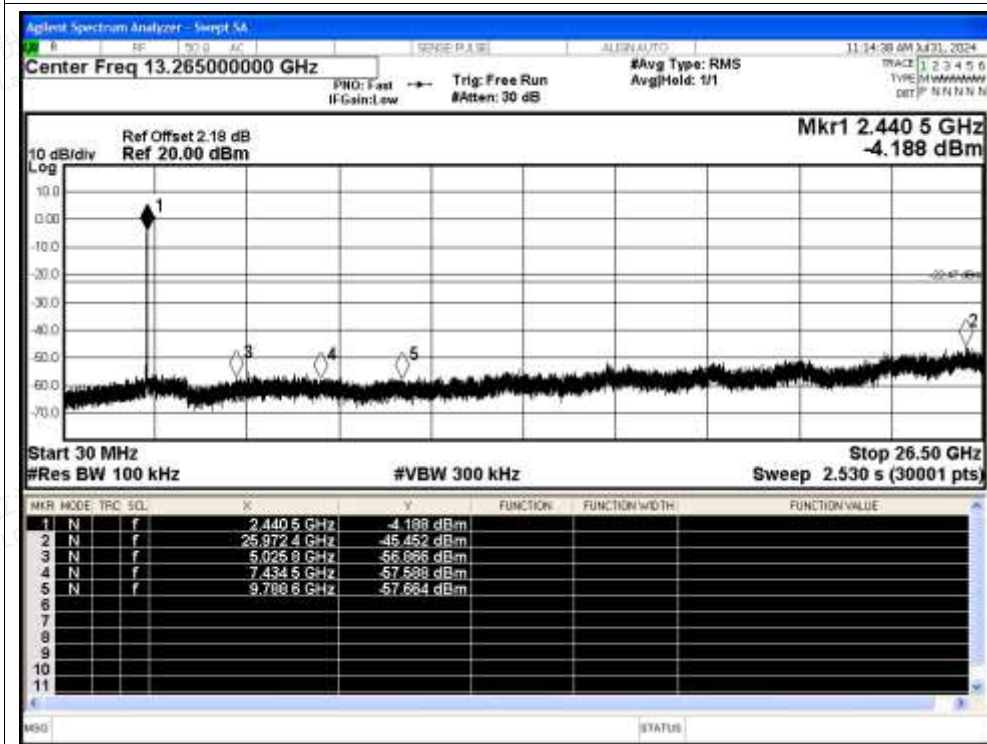
Scan code to check authenticity



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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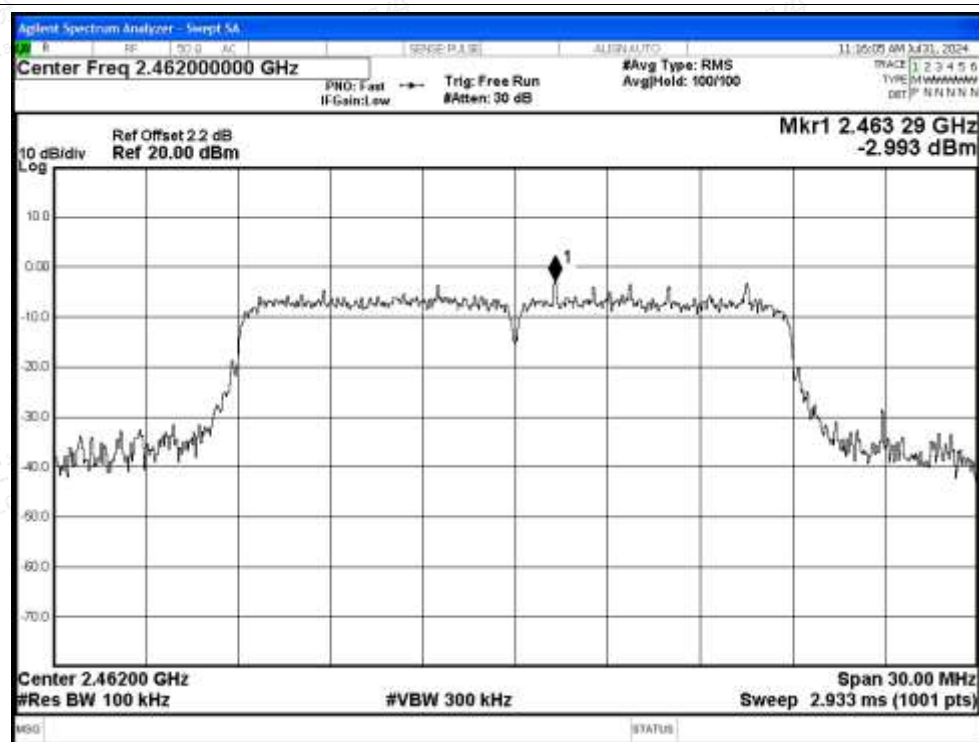
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

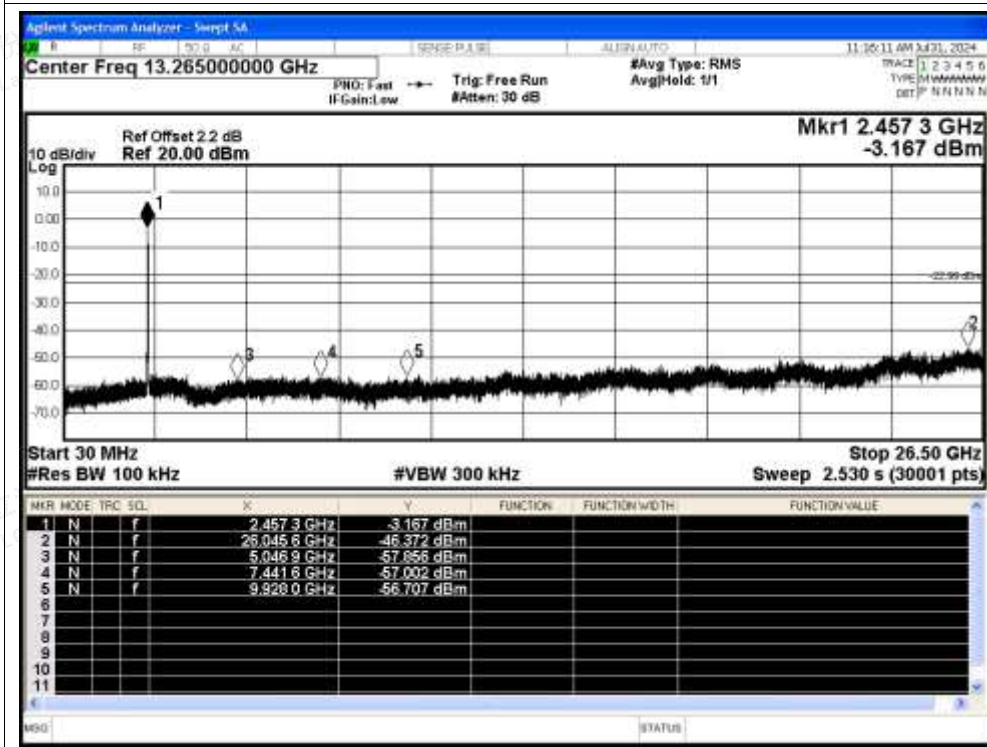
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

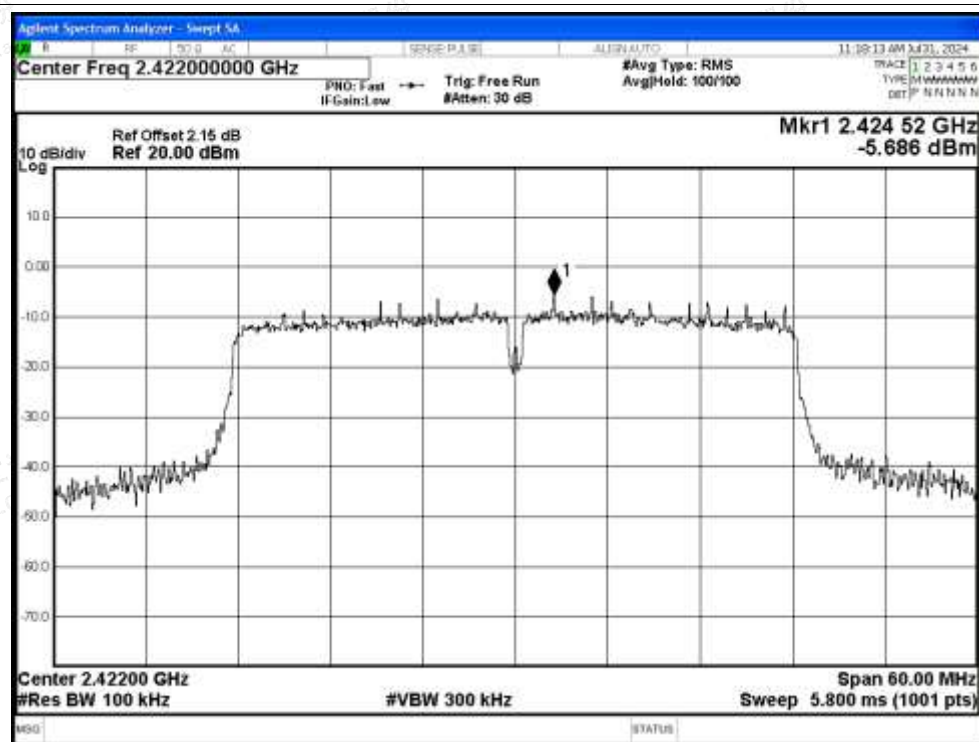
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

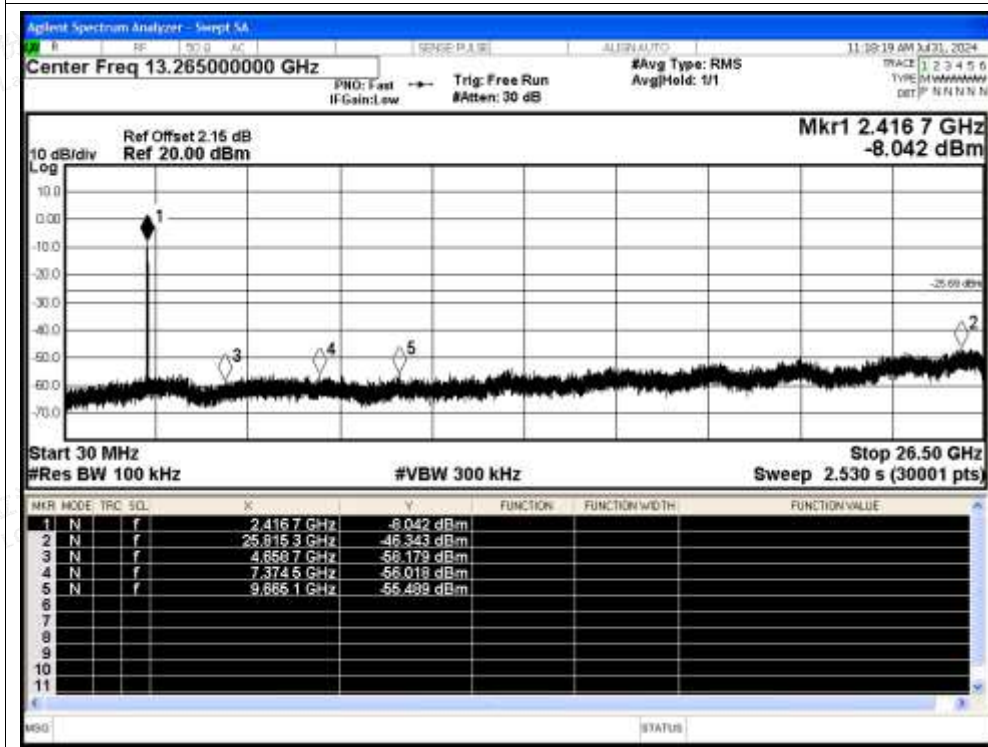
Scan code to check authenticity



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

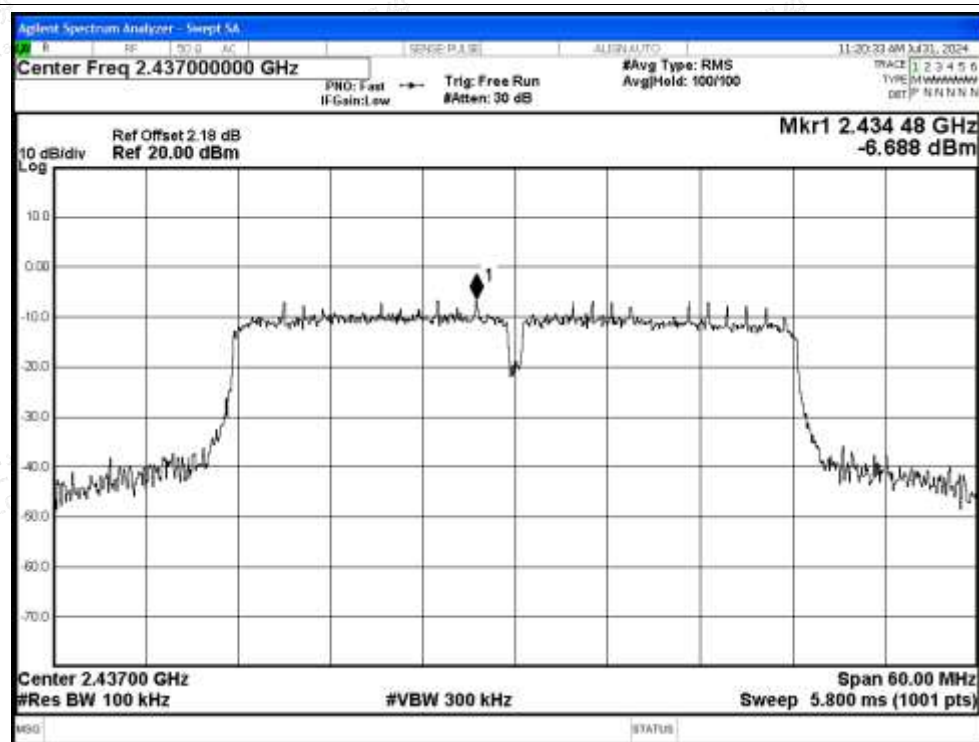
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

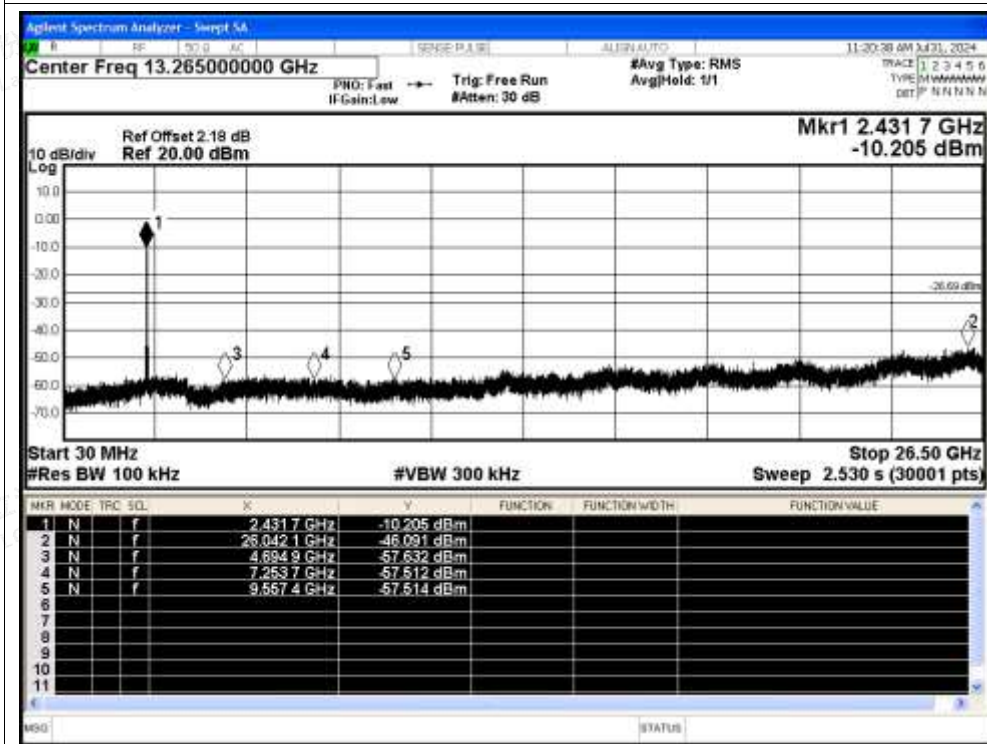
Scan code to check authenticity



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

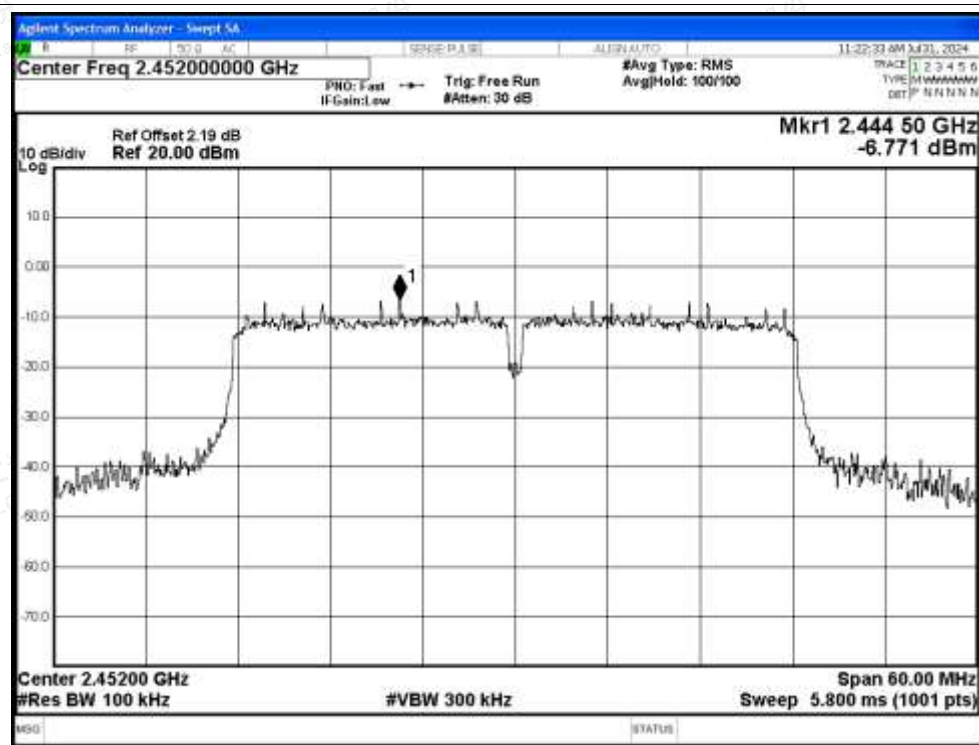
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

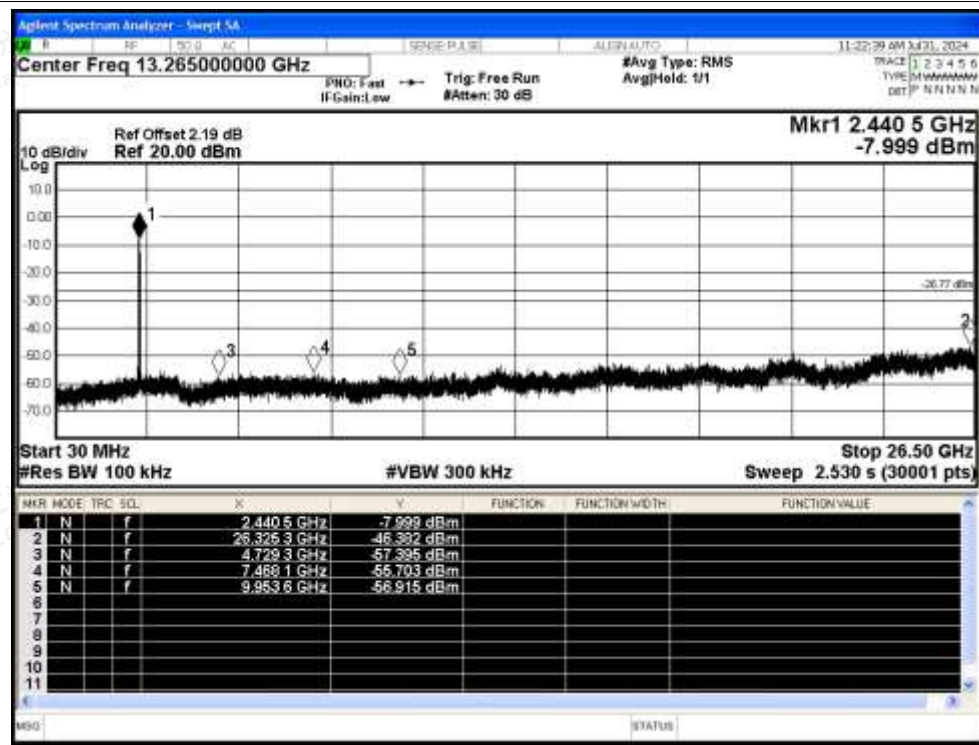
Scan code to check authenticity



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.58	0	0.15
NVNT	b	2437	Ant1	98.21	0	0.15
NVNT	b	2462	Ant1	98.21	0	0.15
NVNT	g	2412	Ant1	90.43	0.44	0.74
NVNT	g	2437	Ant1	90.43	0.44	0.74
NVNT	g	2462	Ant1	90.43	0.44	0.74
NVNT	n20	2412	Ant1	89.44	0.48	0.73
NVNT	n20	2437	Ant1	90.03	0.46	0.73
NVNT	n20	2462	Ant1	96.76	0.14	0.73
NVNT	n40	2422	Ant1	82.22	0.85	1.27
NVNT	n40	2437	Ant1	81.33	0.9	1.28
NVNT	n40	2452	Ant1	82.22	0.85	1.27



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

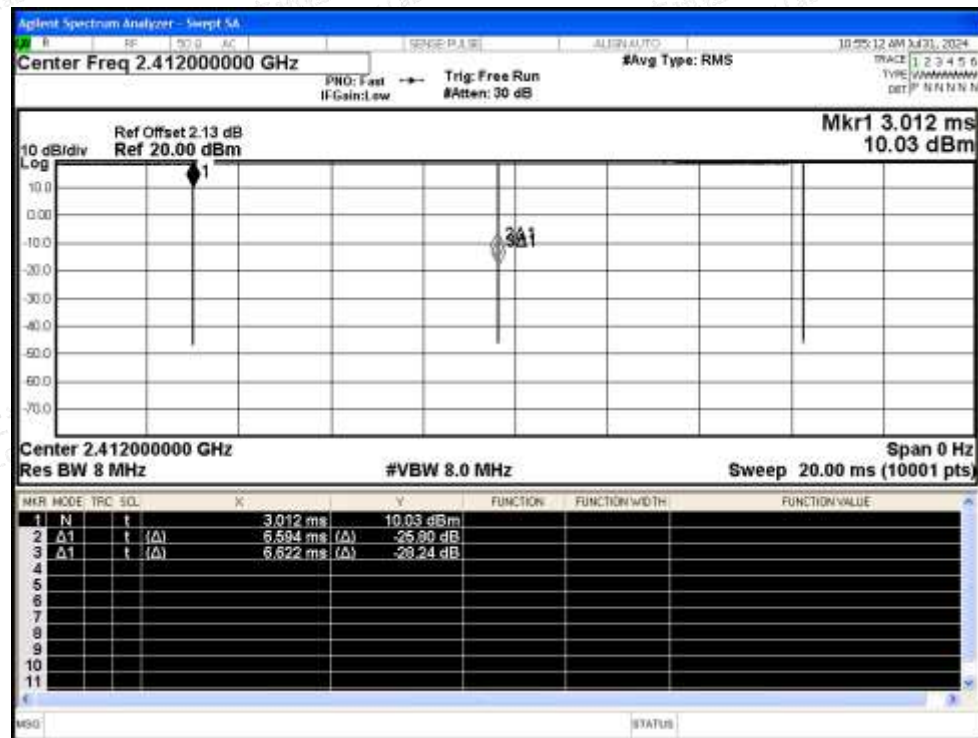
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

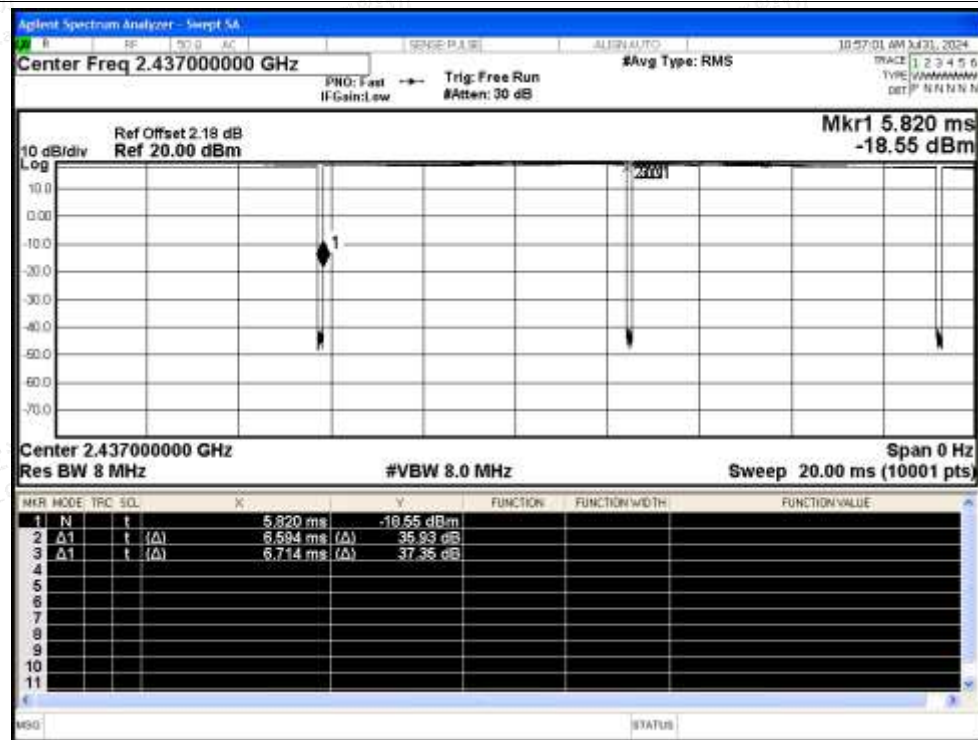


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

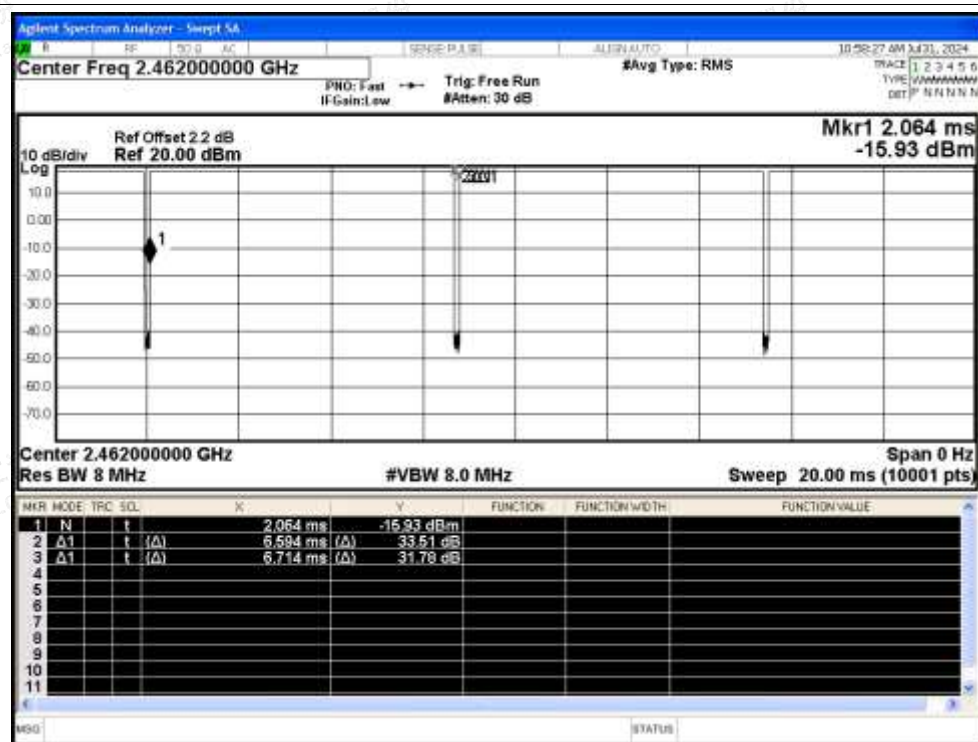
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

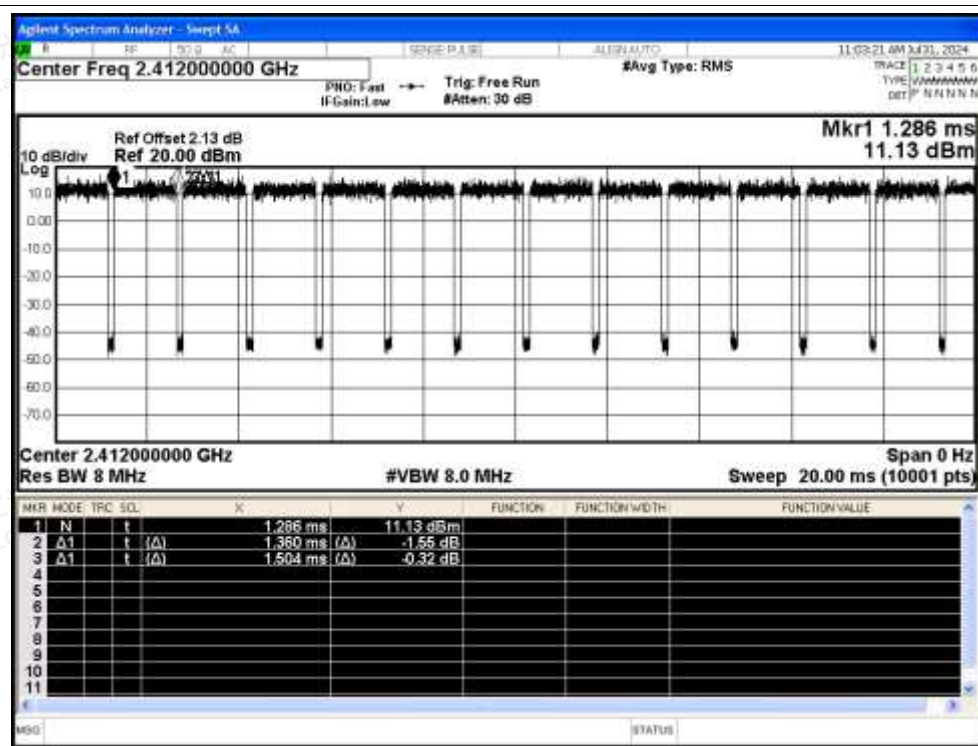
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

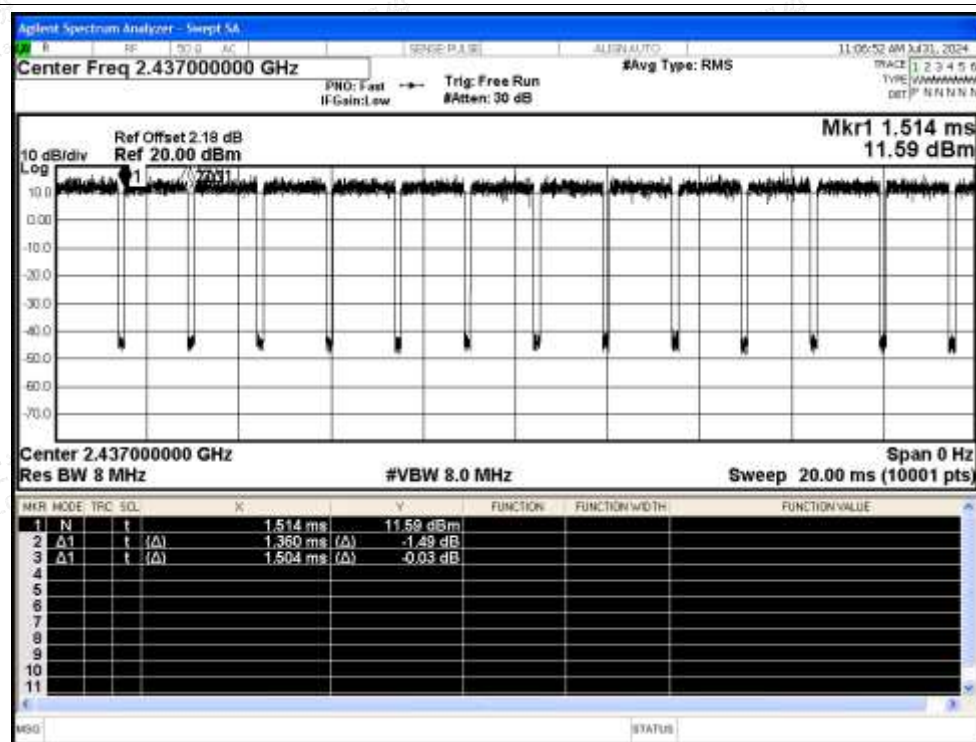
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

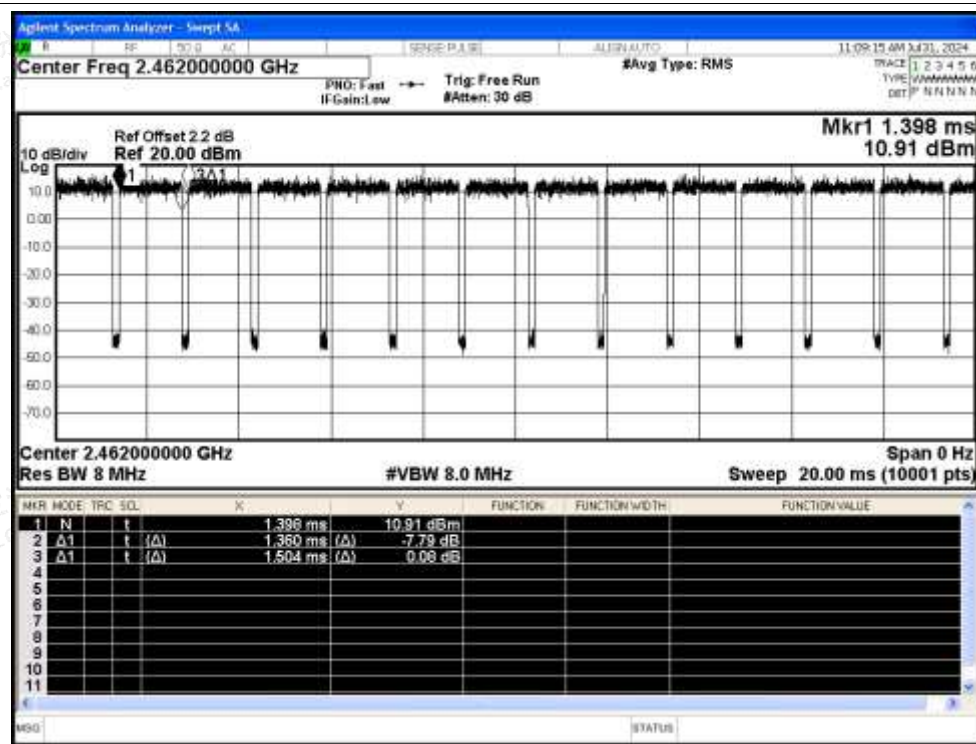
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

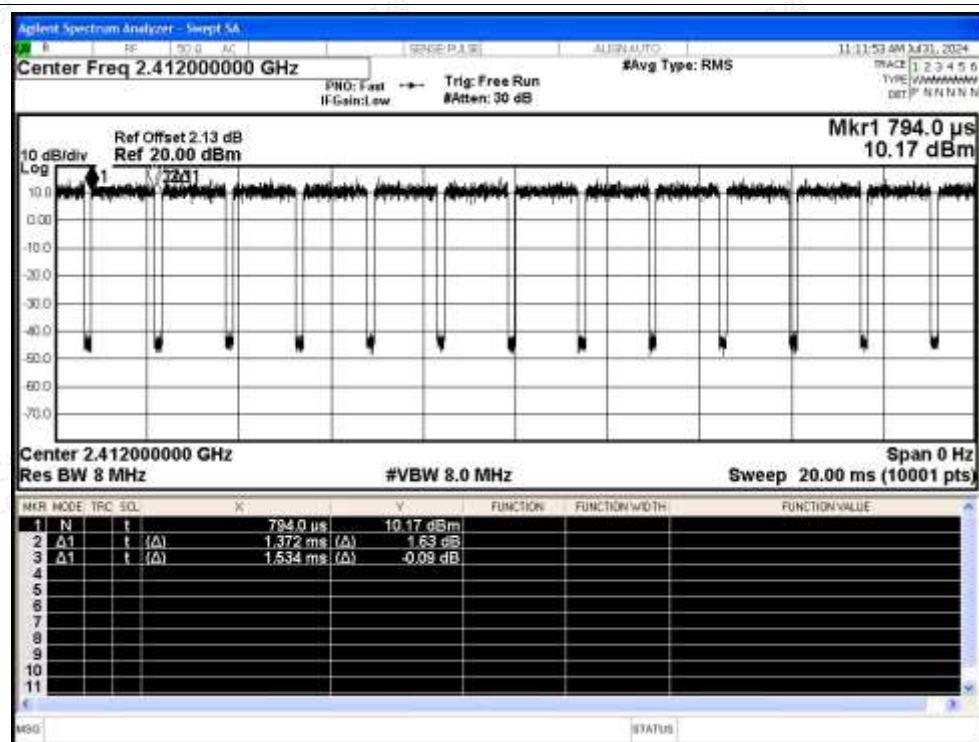
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

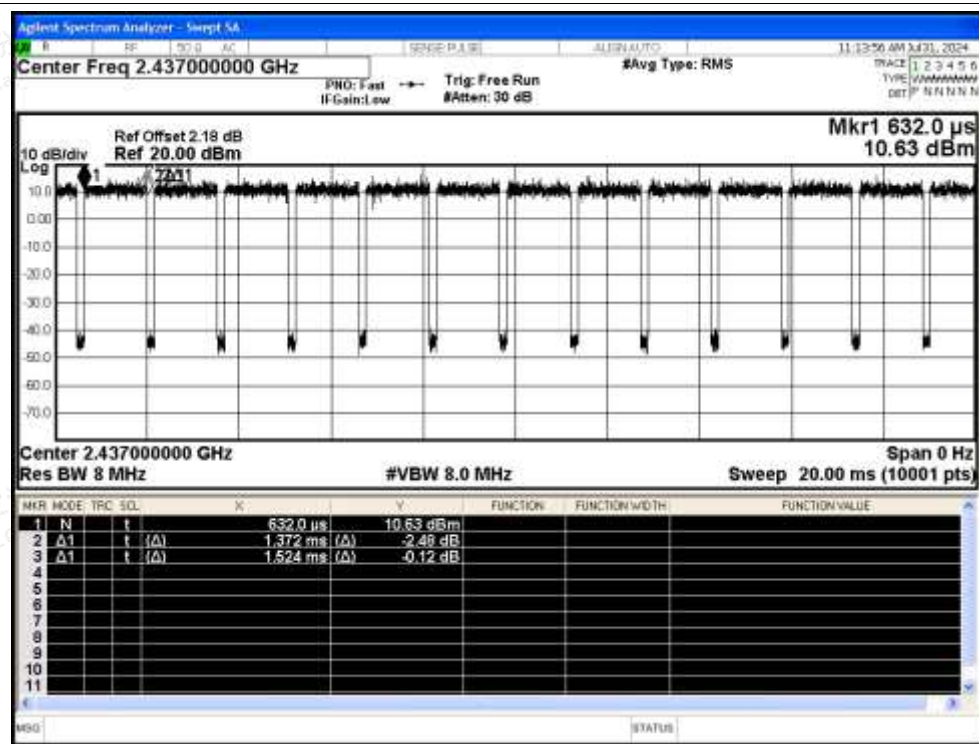
Scan code to check authenticity



Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

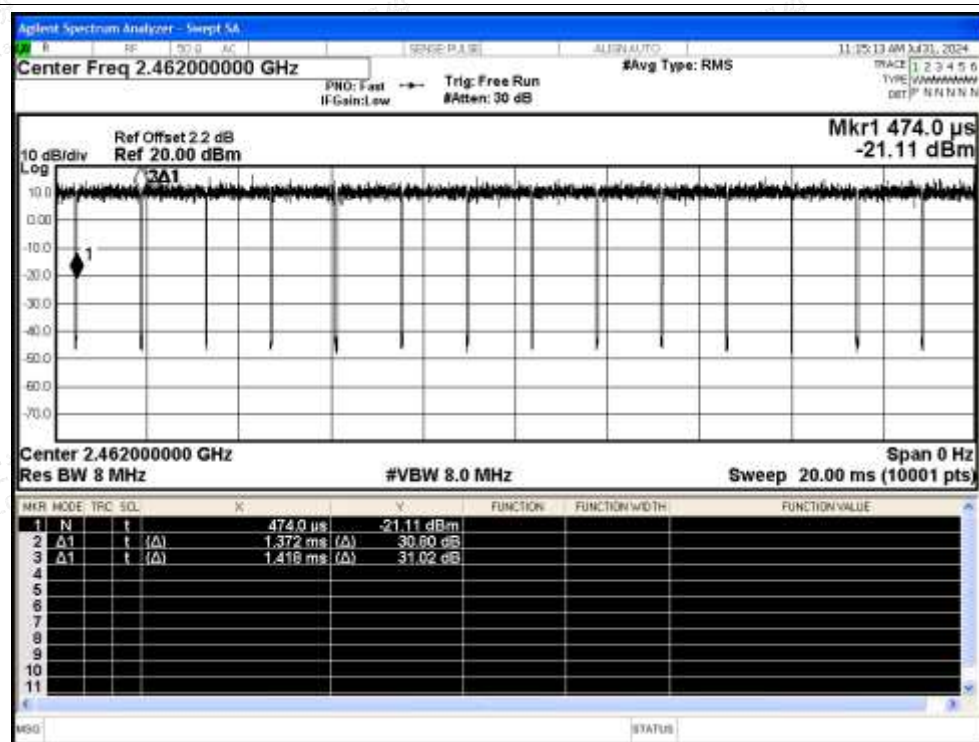
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

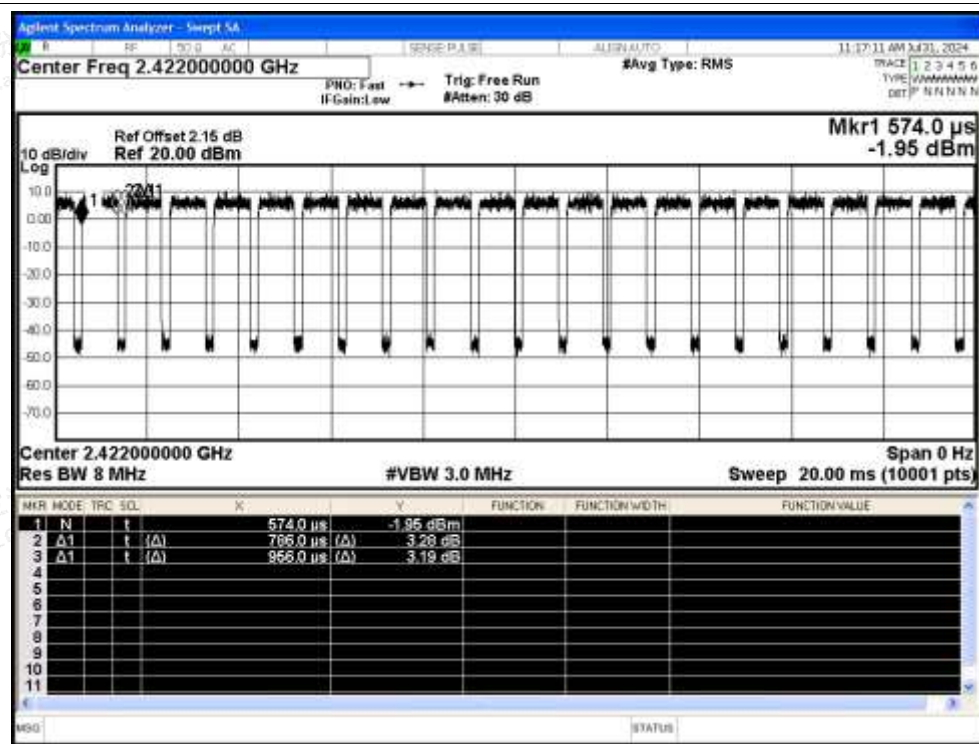
Scan code to check authenticity



Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

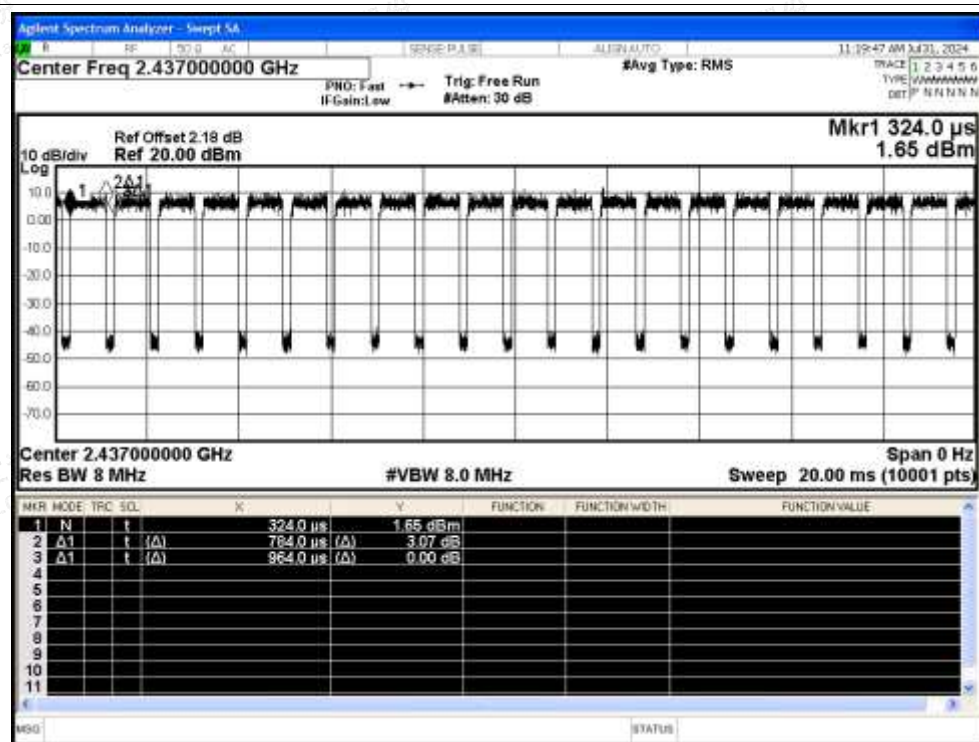
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

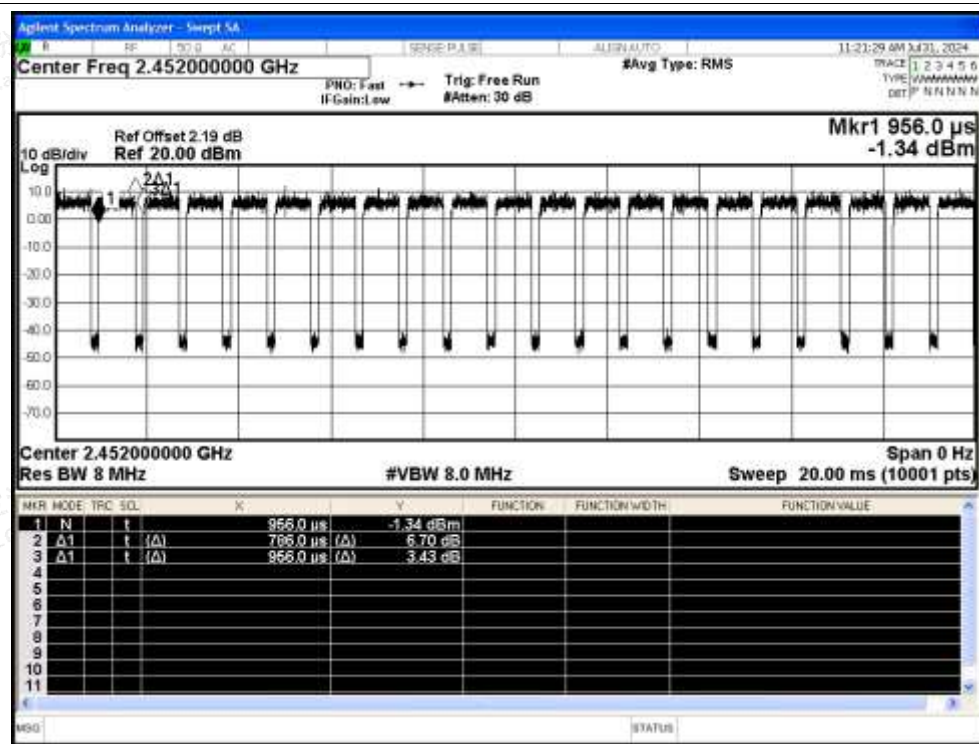
Scan code to check authenticity



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

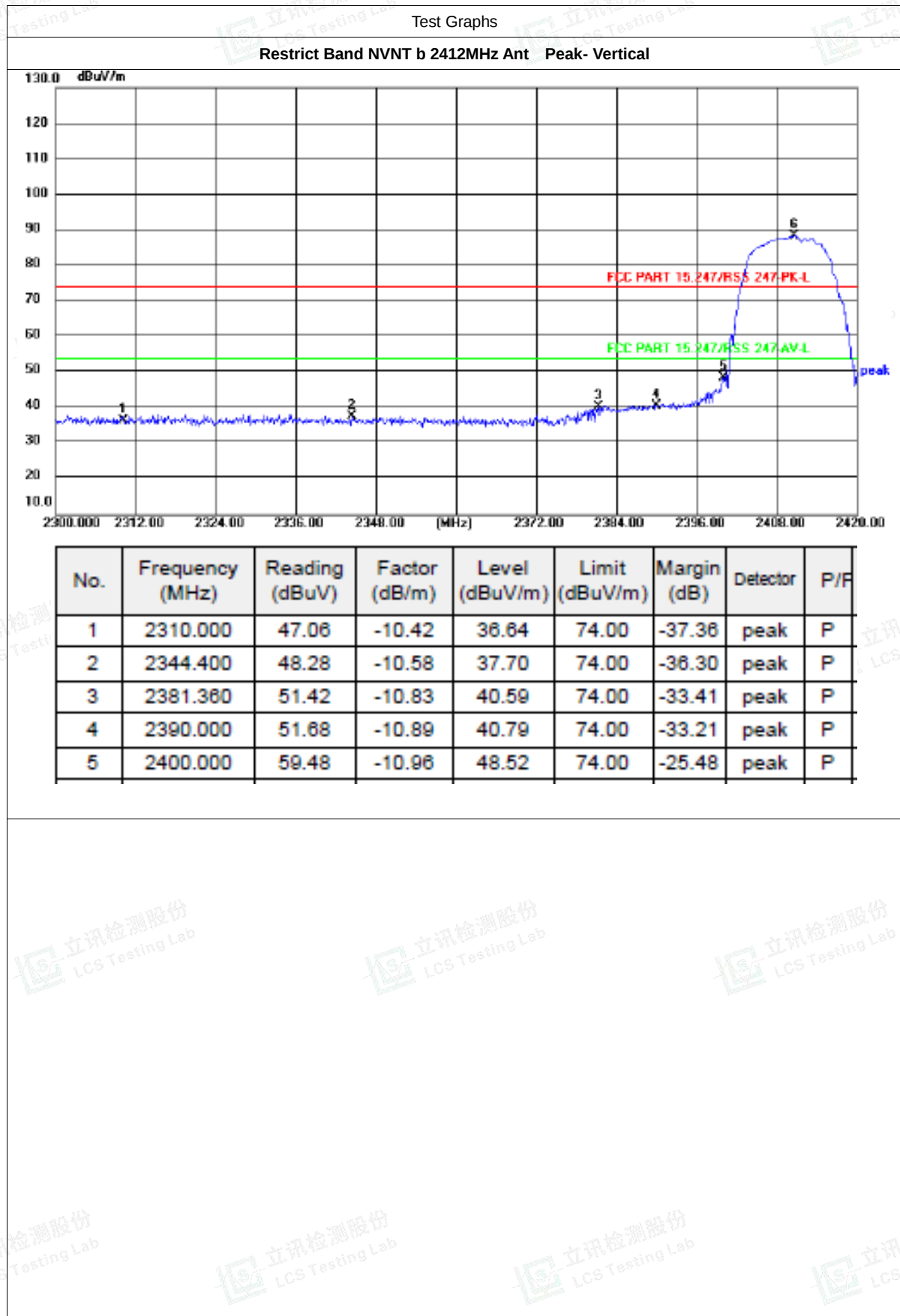
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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B.7 Restrict Band



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

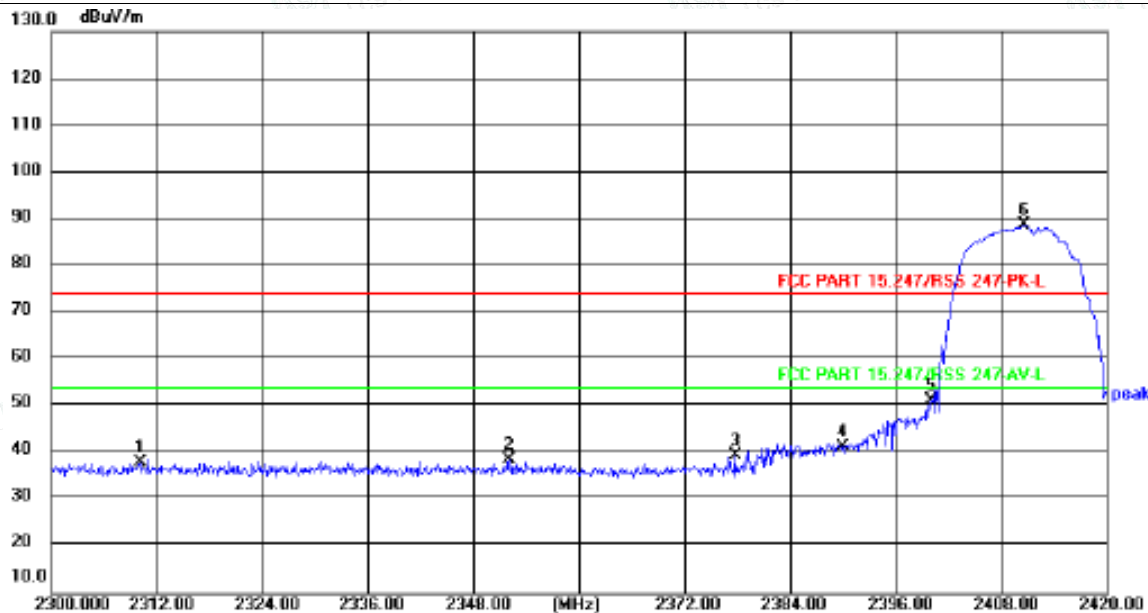
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs

Restrict Band NVNT b 2412MHz Ant Peak- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	50.18	-12.02	38.16	74.00	-35.84	peak	P
2	2352.080	50.48	-11.87	38.61	74.00	-35.39	peak	P
3	2377.760	51.38	-11.77	39.61	74.00	-34.39	peak	P
4	2390.000	53.11	-11.73	41.38	74.00	-32.62	peak	P
5	2400.000	62.97	-11.70	51.27	74.00	-22.73	peak	P



Shenzhen LCS Compliance Testing Laboratory Ltd.

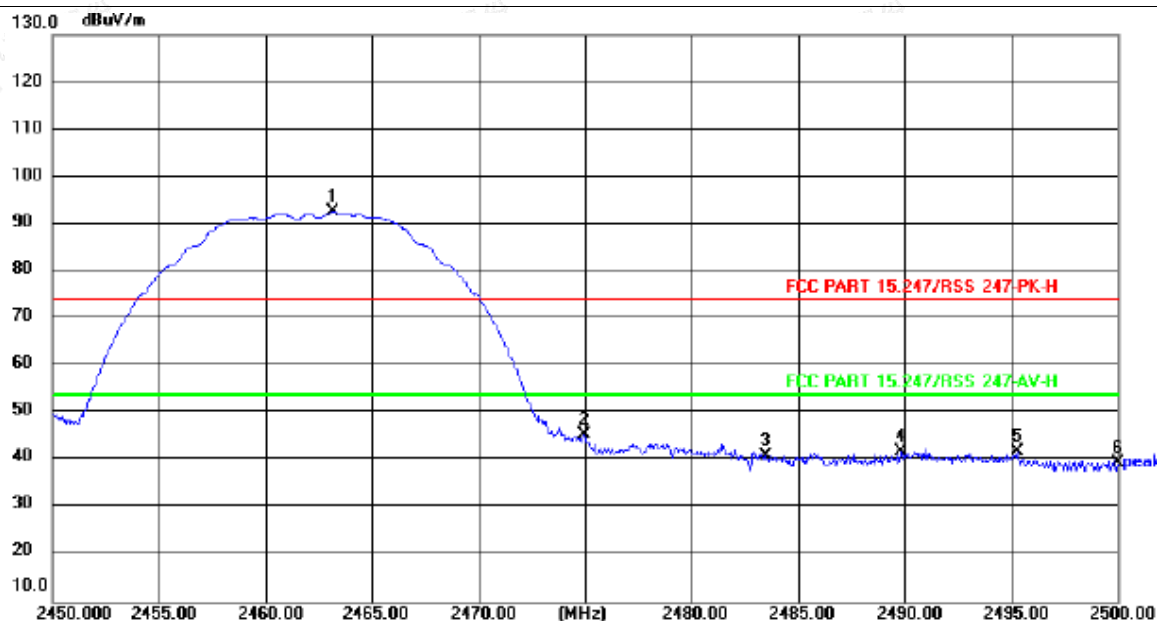
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

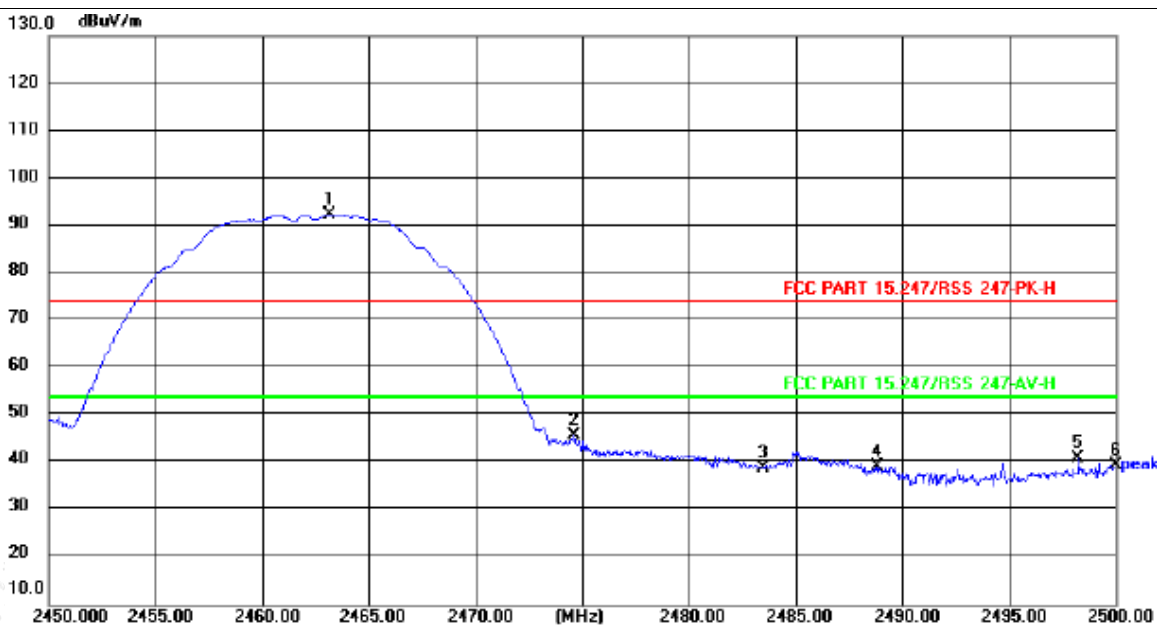


Restrict Band NVNT b 2462MHz Ant Peak- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.150	104.09	-11.48	92.61	74.00	18.61	peak
2	2474.950	56.94	-11.44	45.50	74.00	-28.50	peak
3	2483.500	52.34	-11.40	40.94	74.00	-33.06	peak
4	2489.850	53.39	-11.38	42.01	74.00	-31.99	peak
5	2495.300	53.24	-11.36	41.88	74.00	-32.12	peak
6	2500.000	50.83	-11.34	39.49	74.00	-34.51	peak

Restrict Band NVNT b 2462MHz Ant Peak- Horizontal



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.150	103.24	-10.75	92.49	74.00	18.49	peak
2	2474.650	56.63	-10.88	45.75	74.00	-28.25	peak
3	2483.500	49.85	-10.96	38.89	74.00	-35.11	peak
4	2488.850	50.32	-11.03	39.29	74.00	-34.71	peak
5	2498.250	52.03	-11.12	40.91	74.00	-33.09	peak
6	2500.000	50.67	-11.14	39.53	74.00	-34.47	peak

Note: B/G/N were tested, the report only recorded the worst result of B mode.

