

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Residential Energy Monitor

Test Model: TED Pro Home 2.0 Lite

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.518	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.563	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.99	≥ 0.5	Pass
NVNT	g	2412	Ant1	10.415	≥ 0.5	Pass
NVNT	g	2437	Ant1	14.391	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.309	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.538	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.551	≥ 0.5	Pass
NVNT	n20	2462	Ant1	15.93	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.172	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.107	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.091	≥ 0.5	Pass

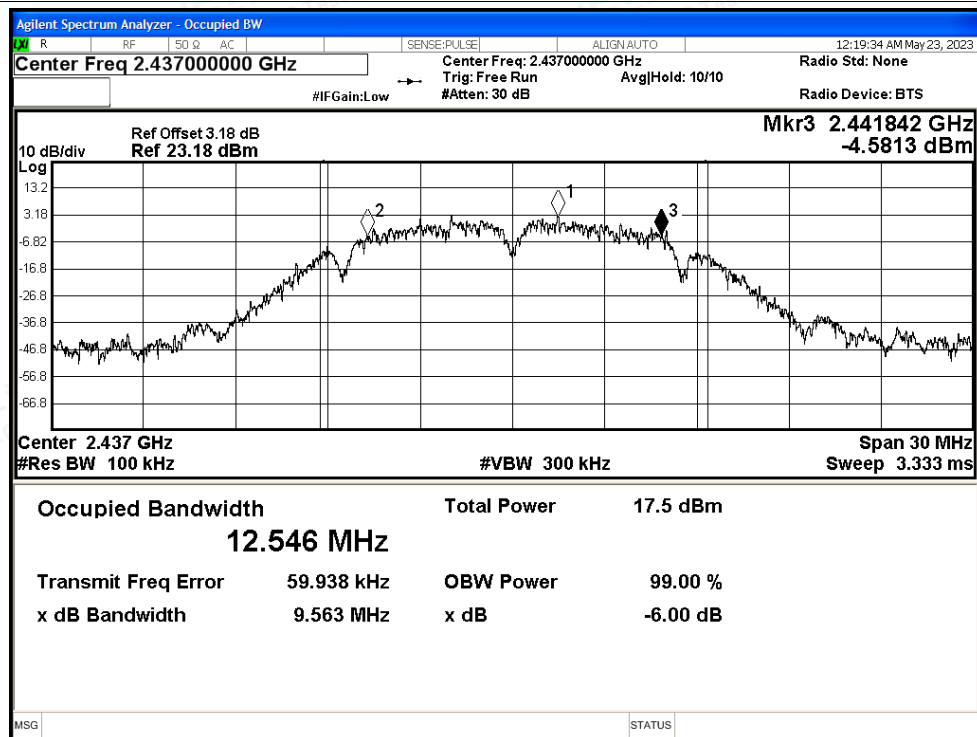


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



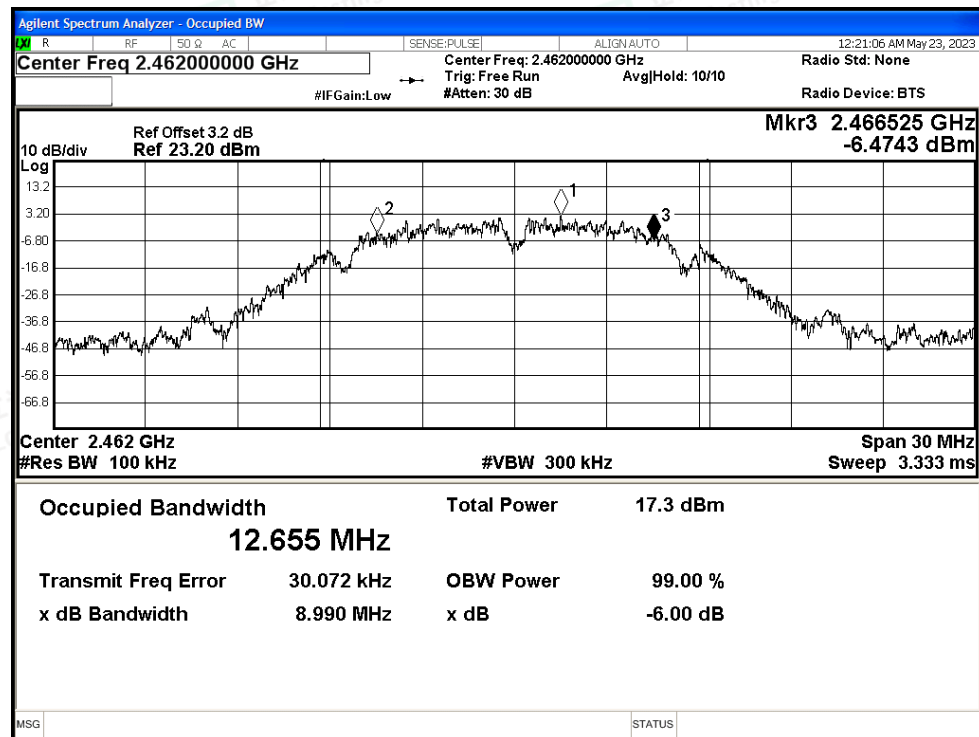
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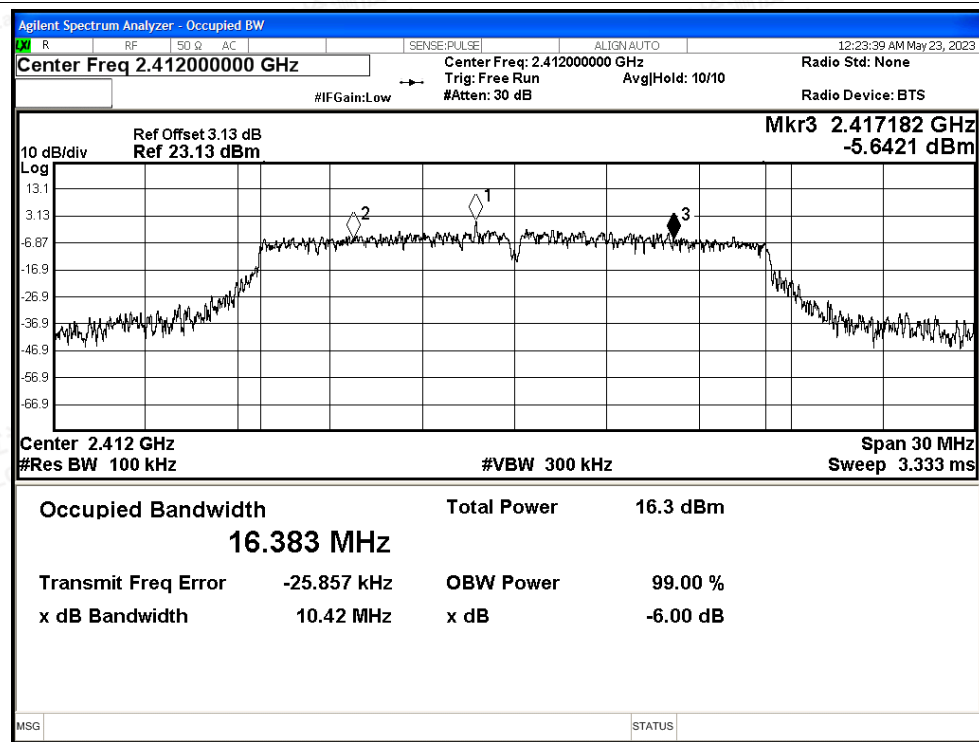
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



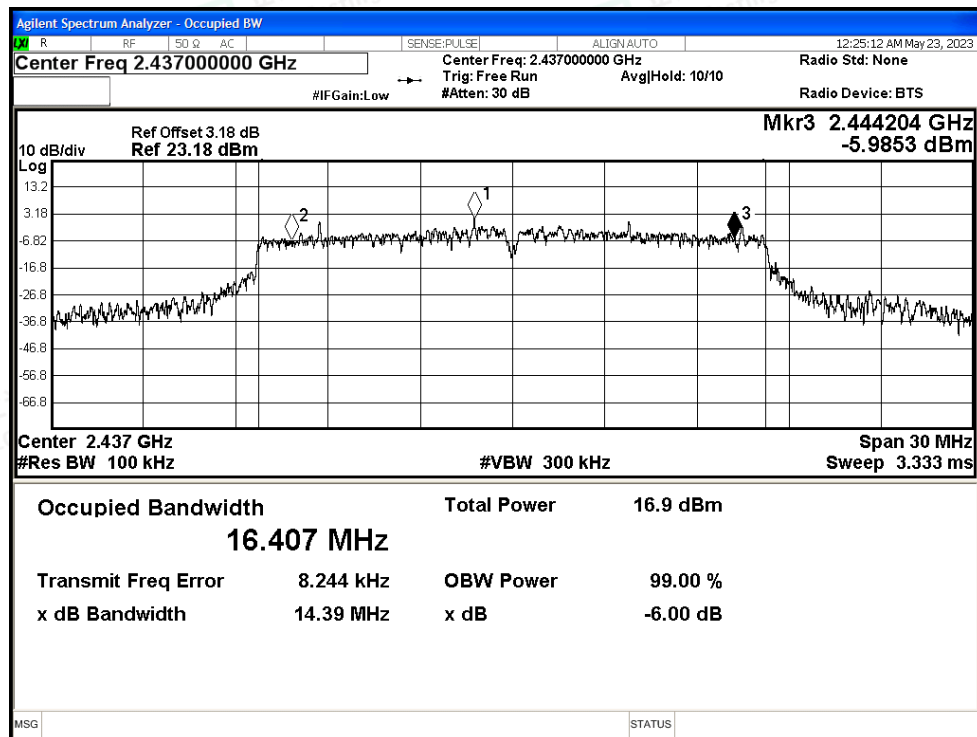
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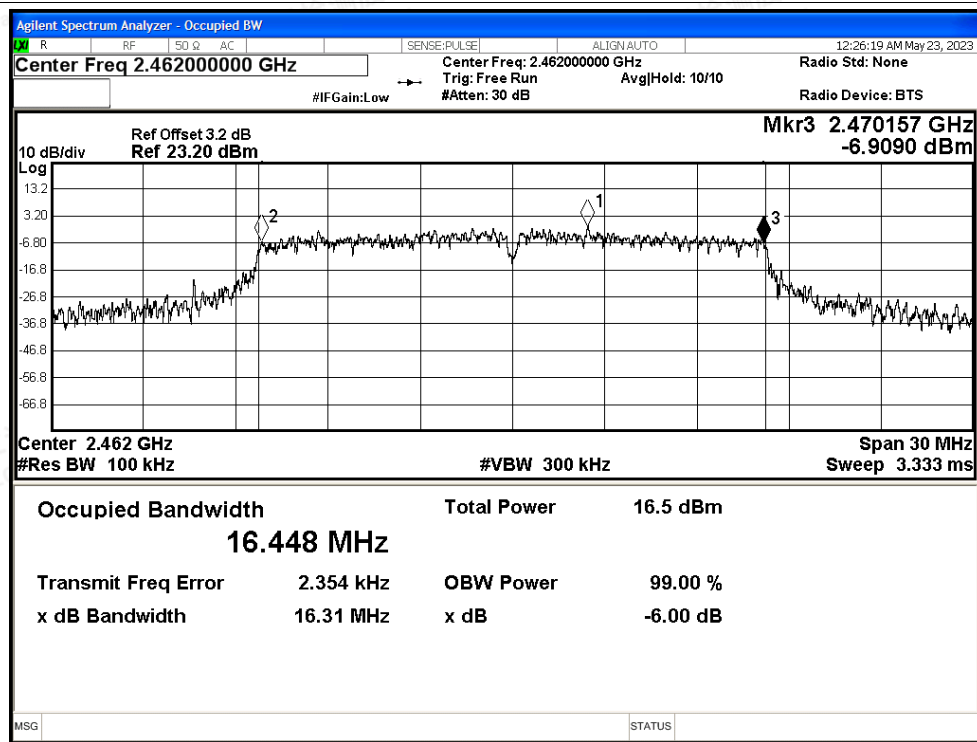
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



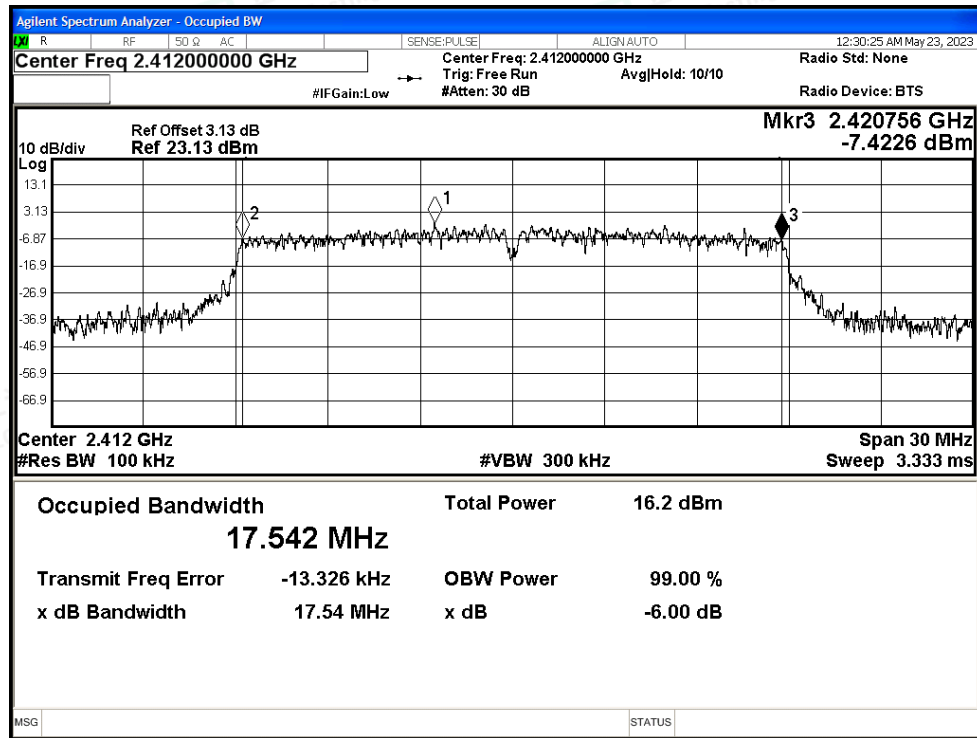
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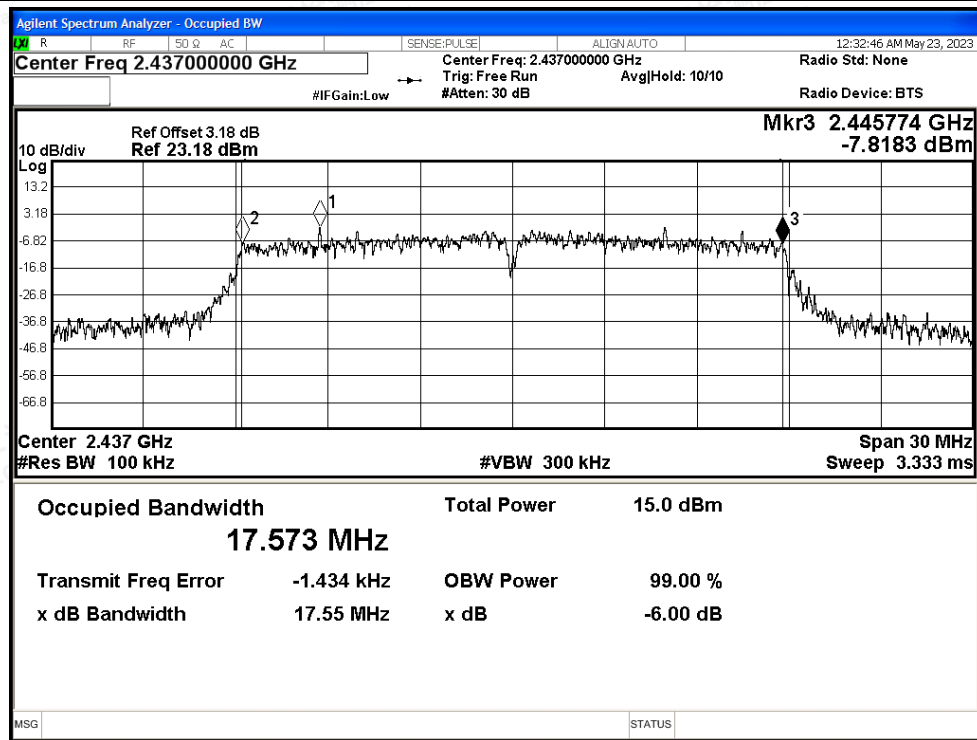
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

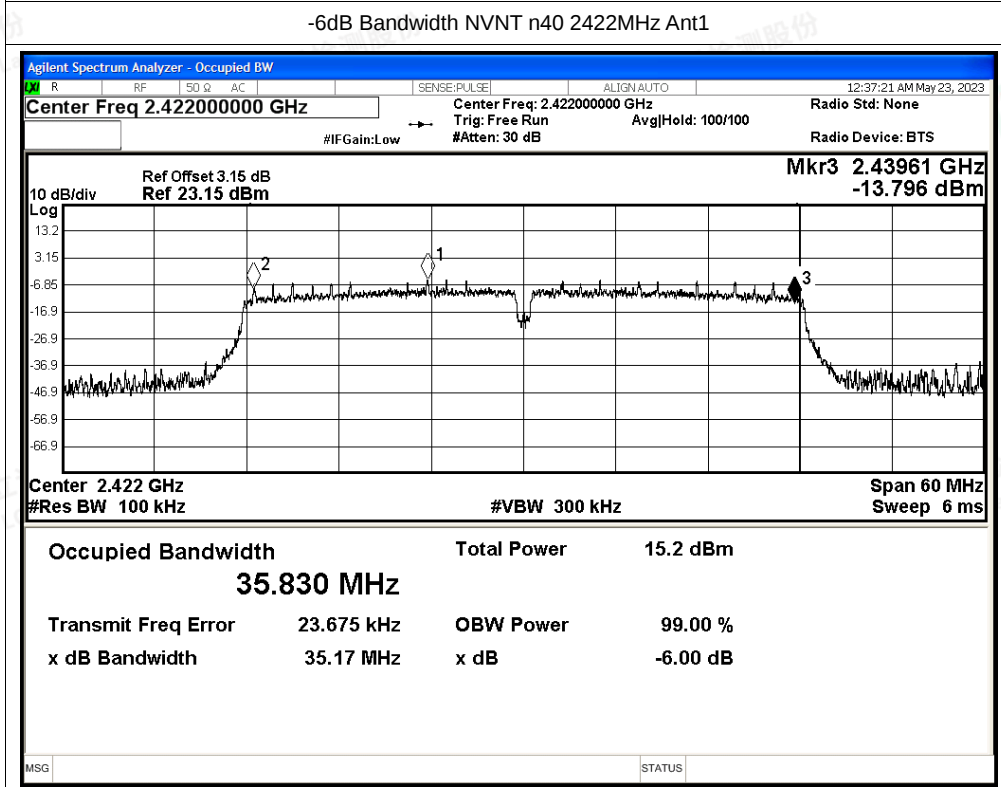
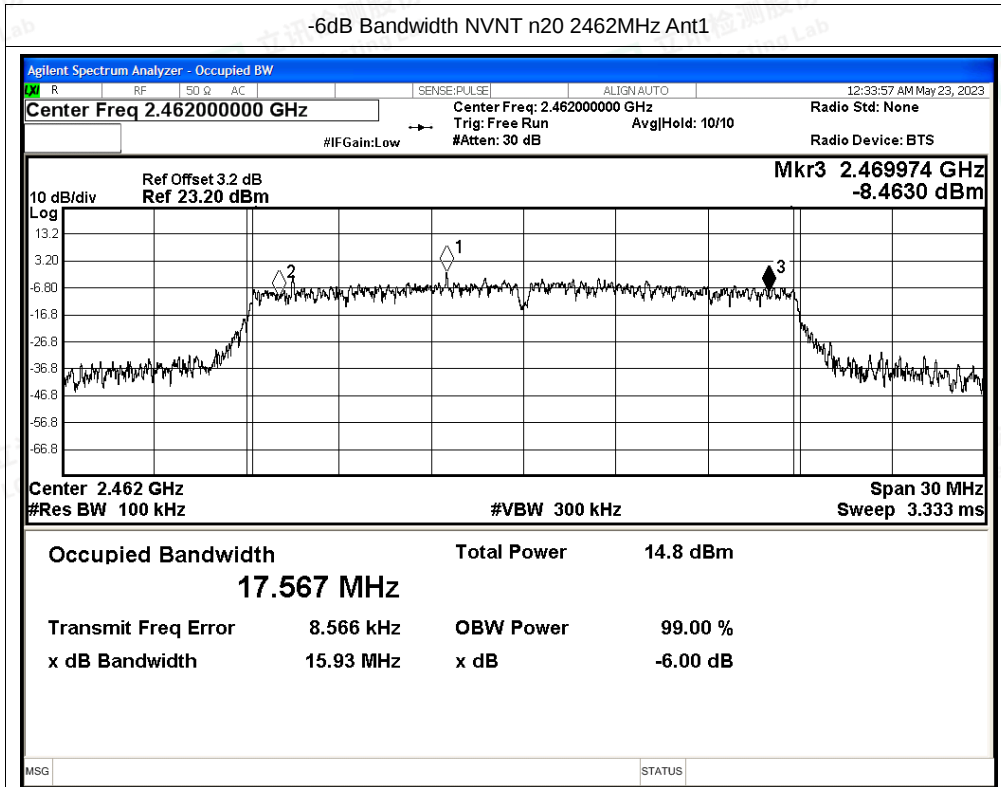


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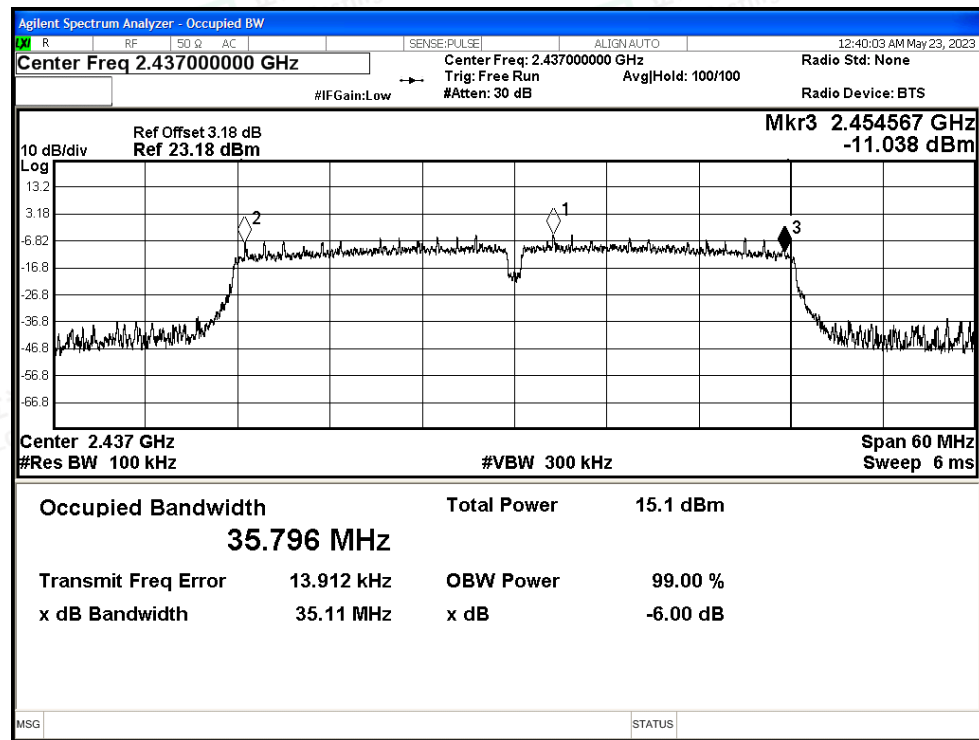
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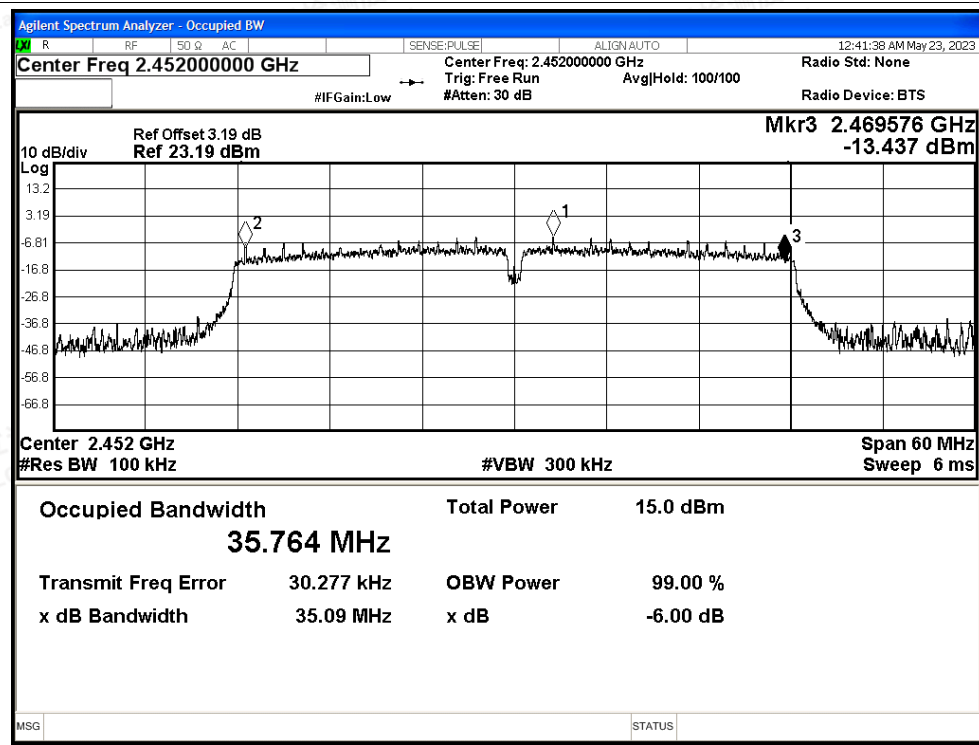
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.324
NVNT	b	2437	Ant1	12.468
NVNT	b	2462	Ant1	12.605
NVNT	g	2412	Ant1	16.433
NVNT	g	2437	Ant1	16.454
NVNT	g	2462	Ant1	16.497
NVNT	n20	2412	Ant1	17.55
NVNT	n20	2437	Ant1	17.596
NVNT	n20	2462	Ant1	17.6
NVNT	n40	2422	Ant1	35.932
NVNT	n40	2437	Ant1	35.902
NVNT	n40	2452	Ant1	35.917



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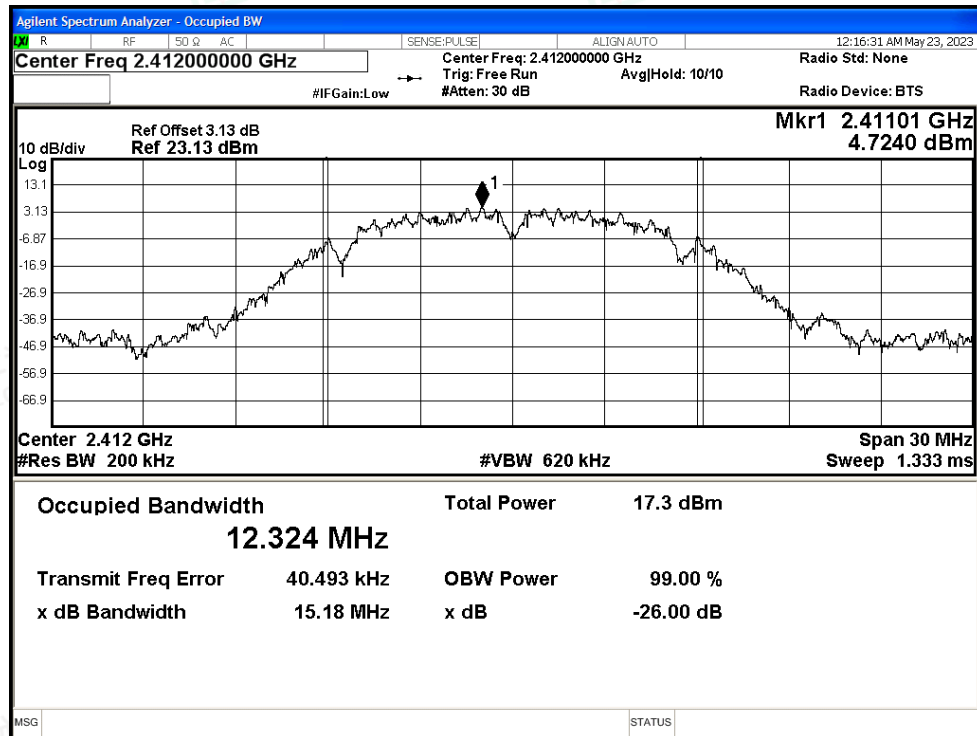
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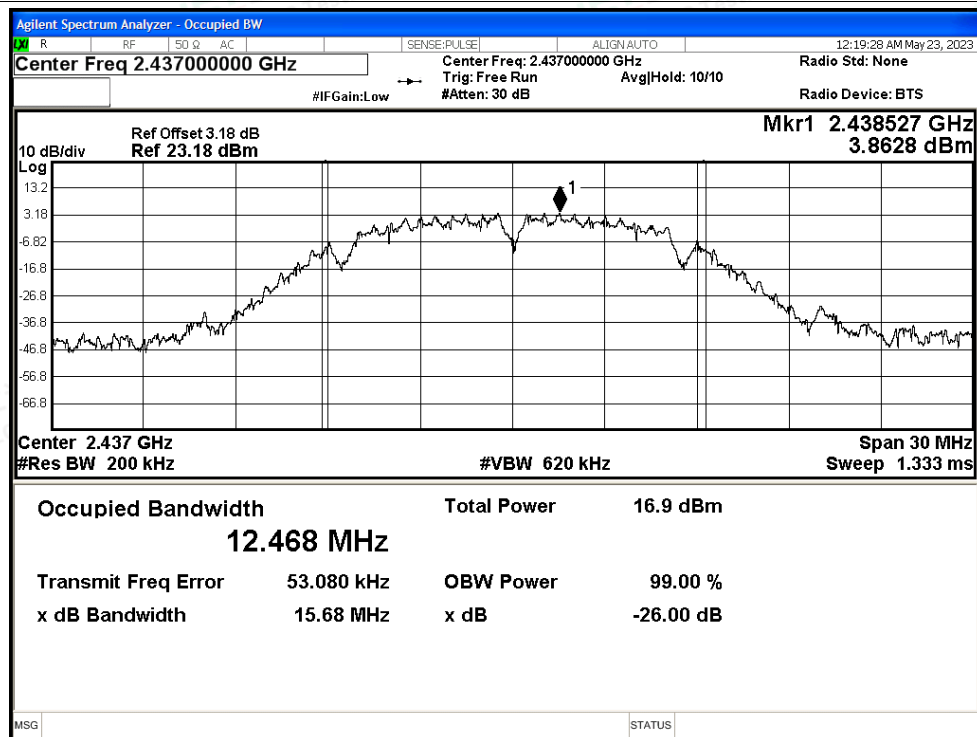
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Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



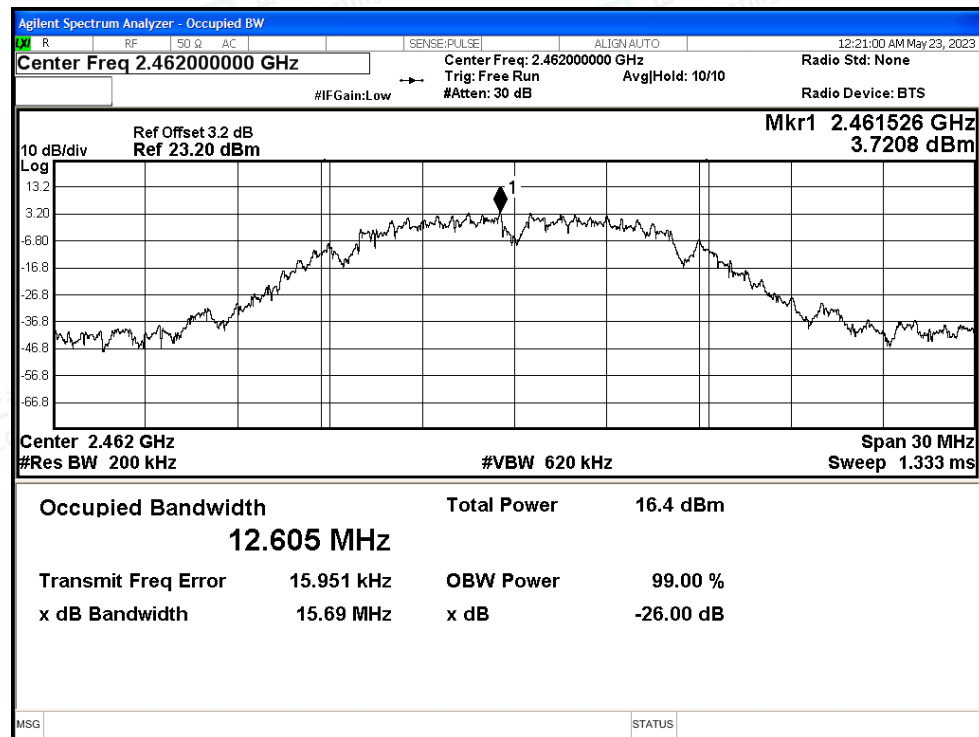
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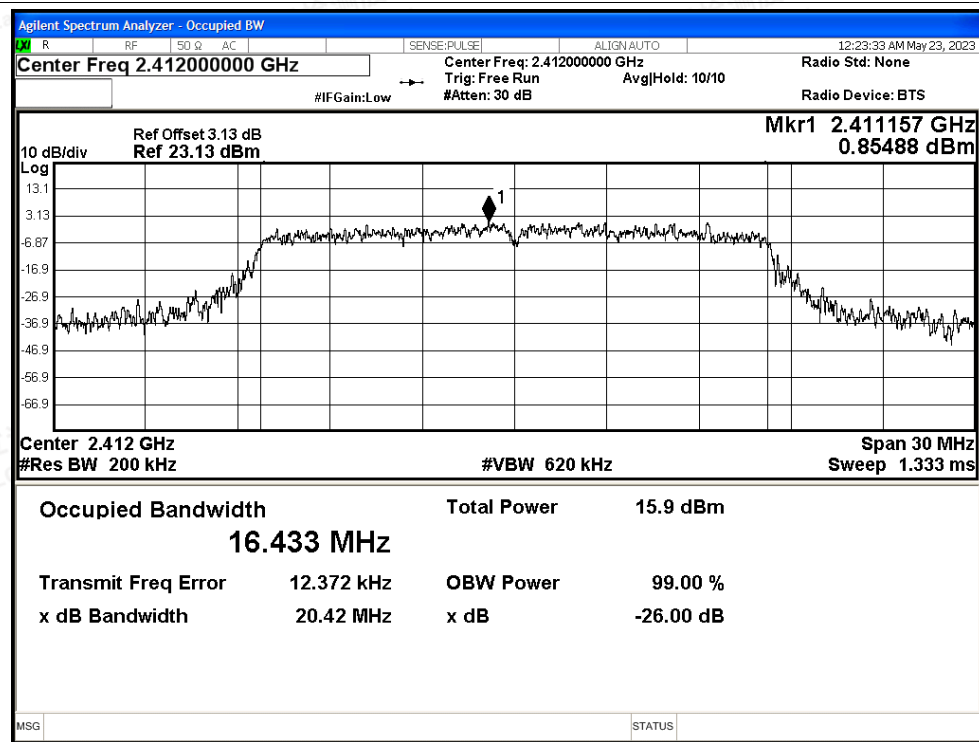
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OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



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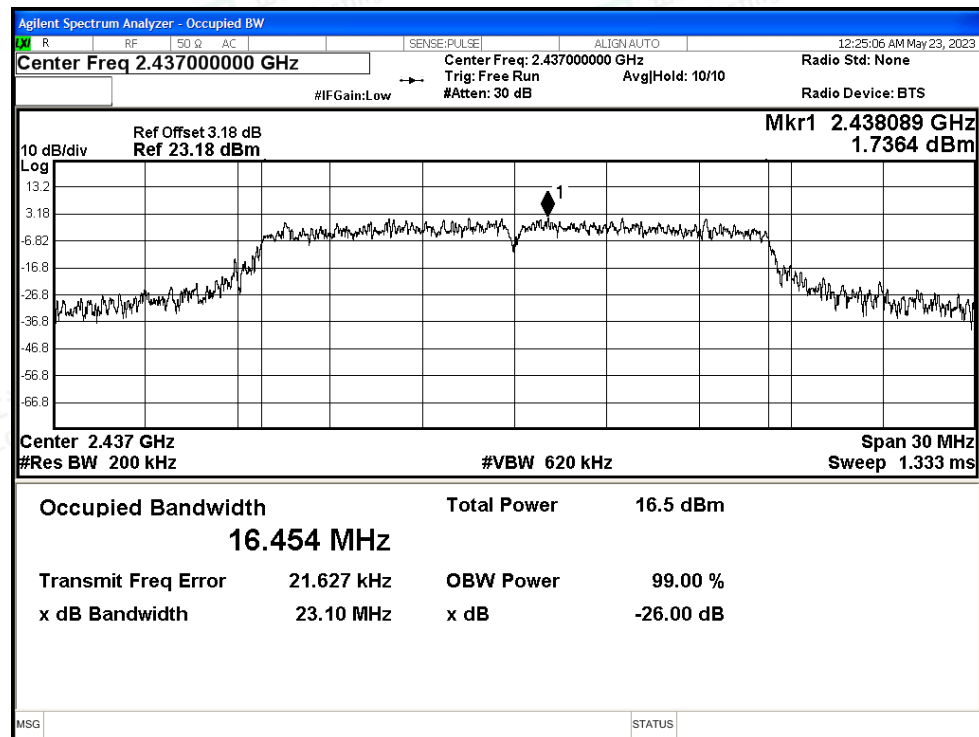
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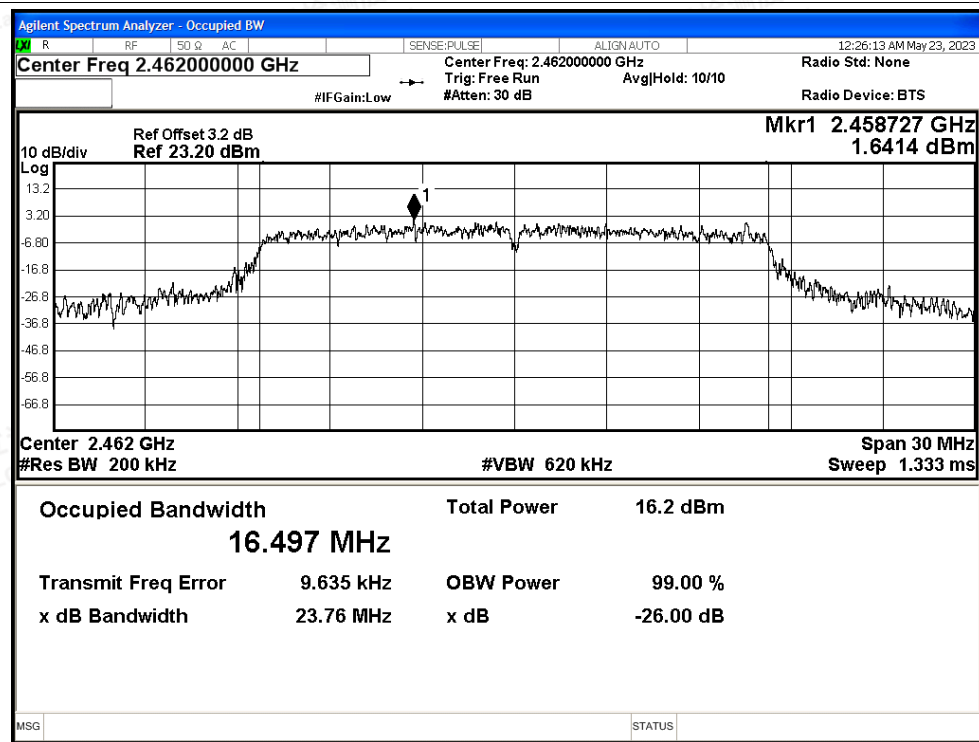
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OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

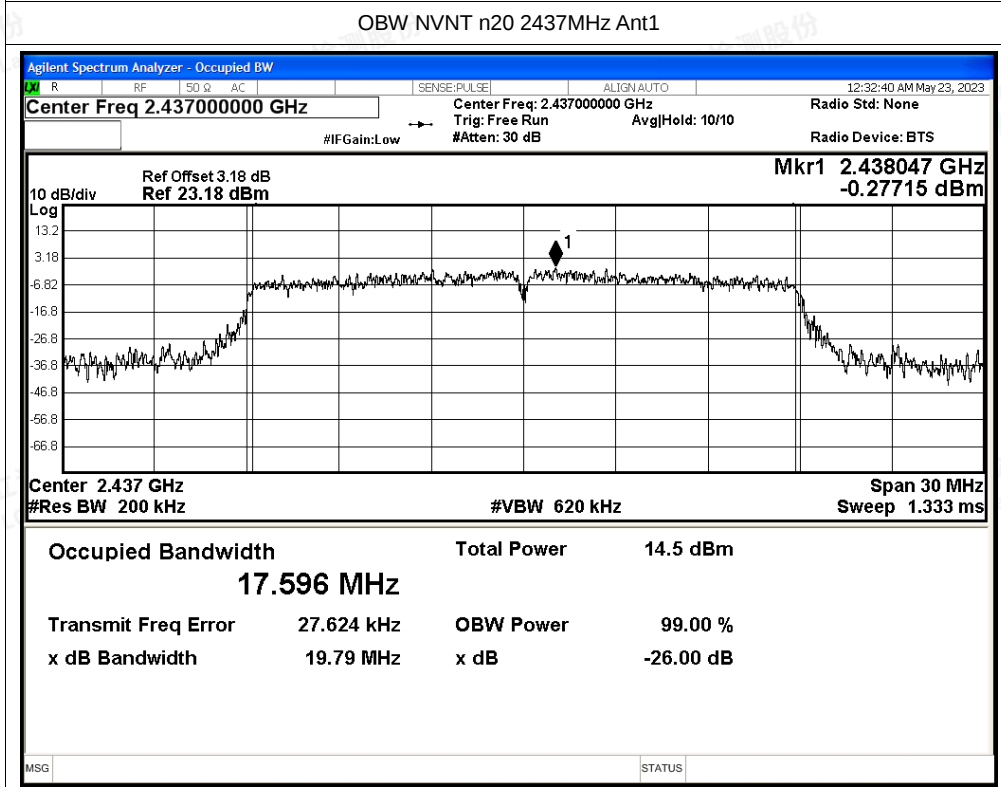
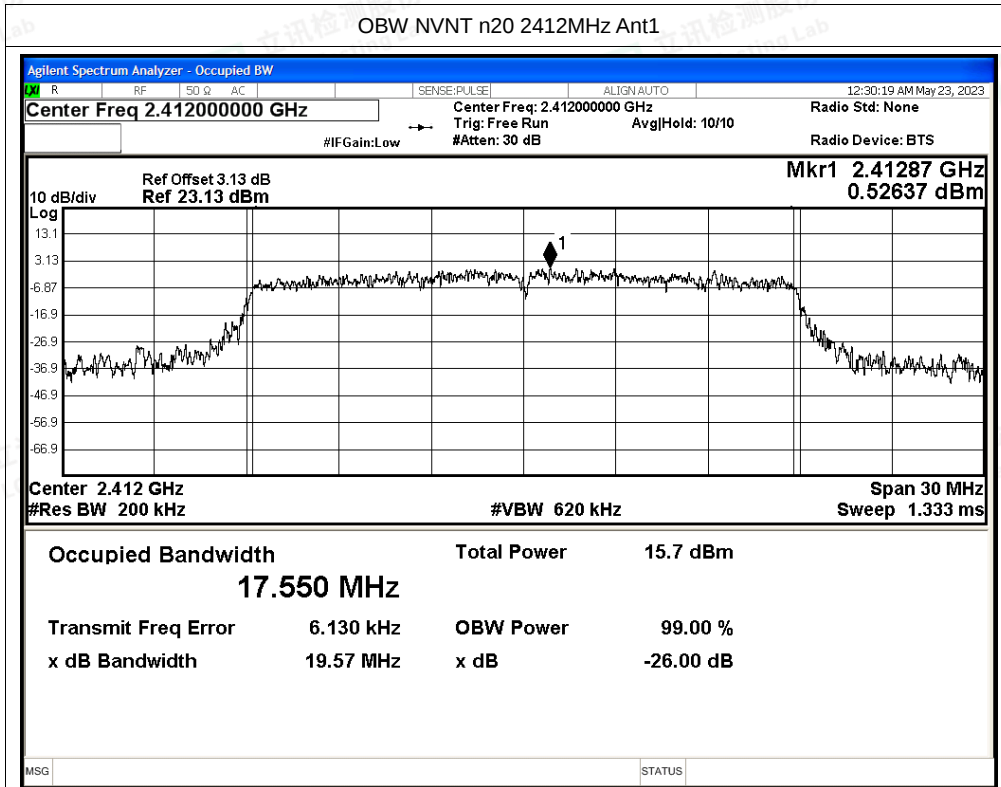


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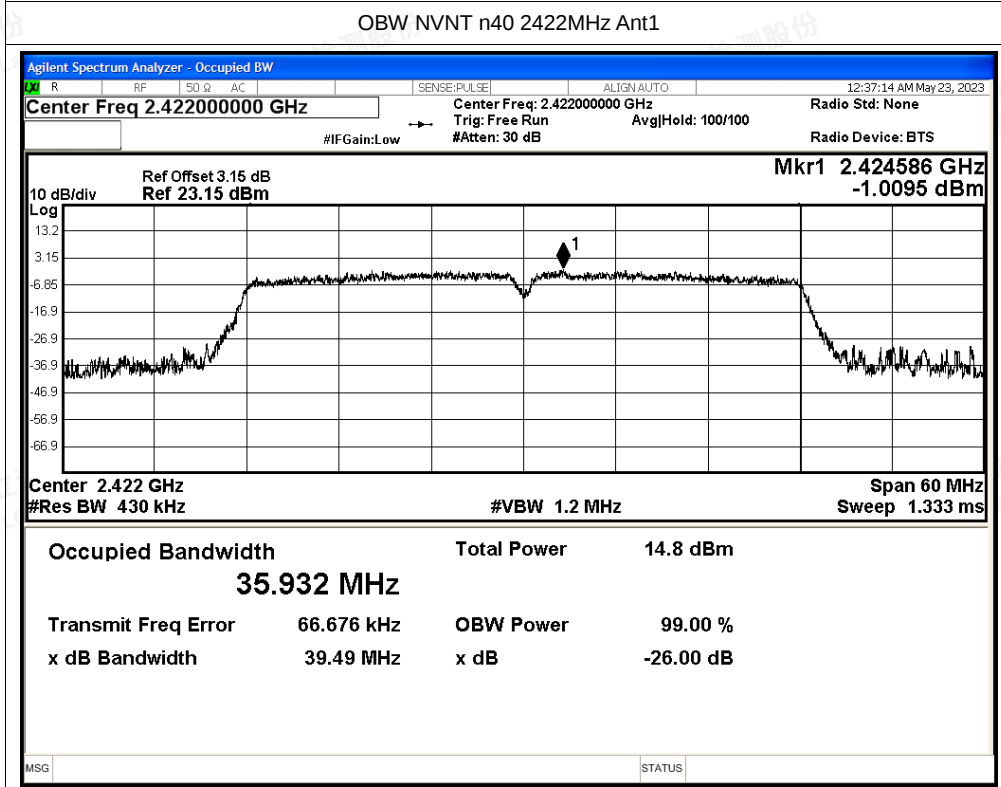
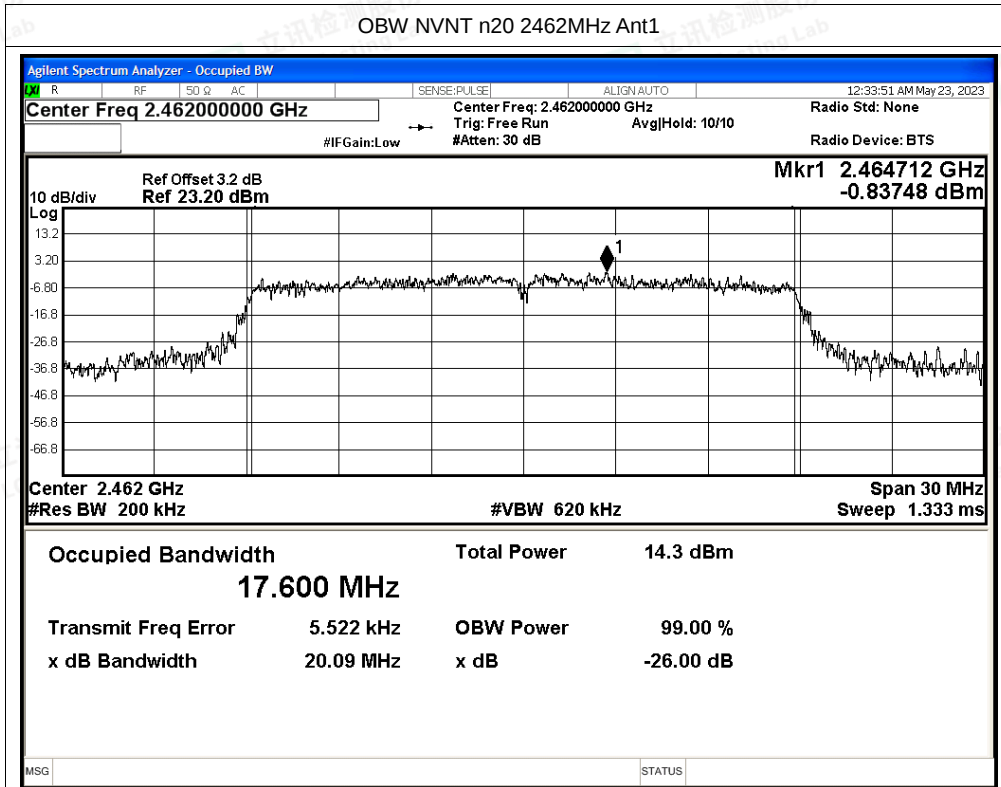


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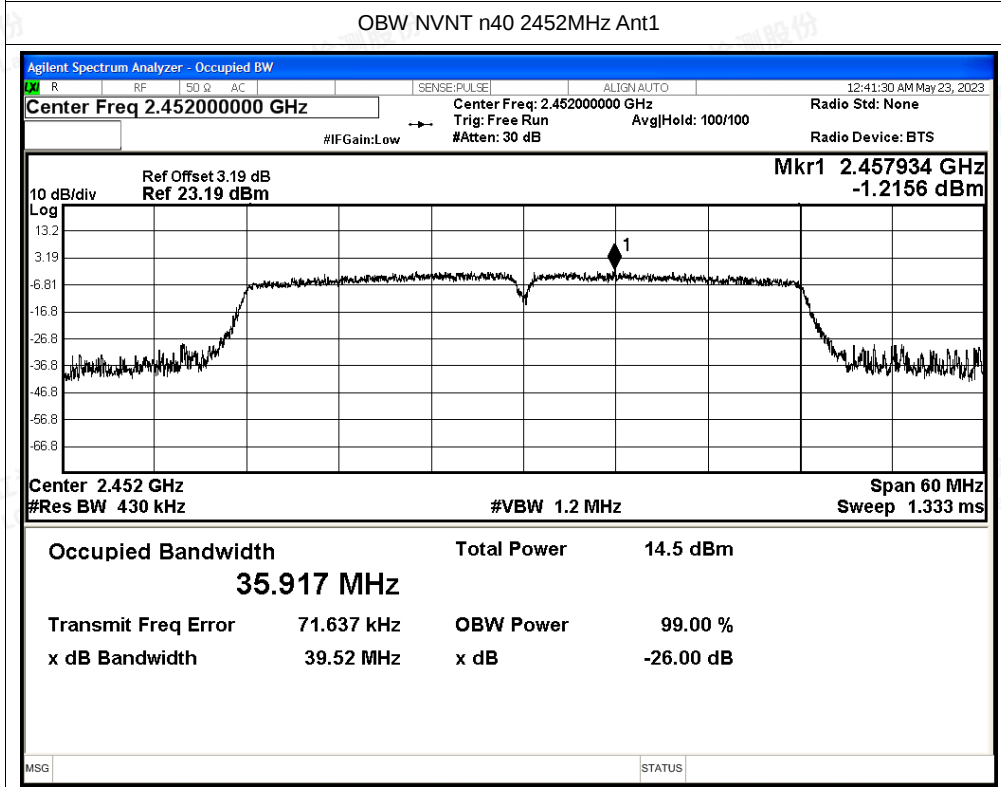
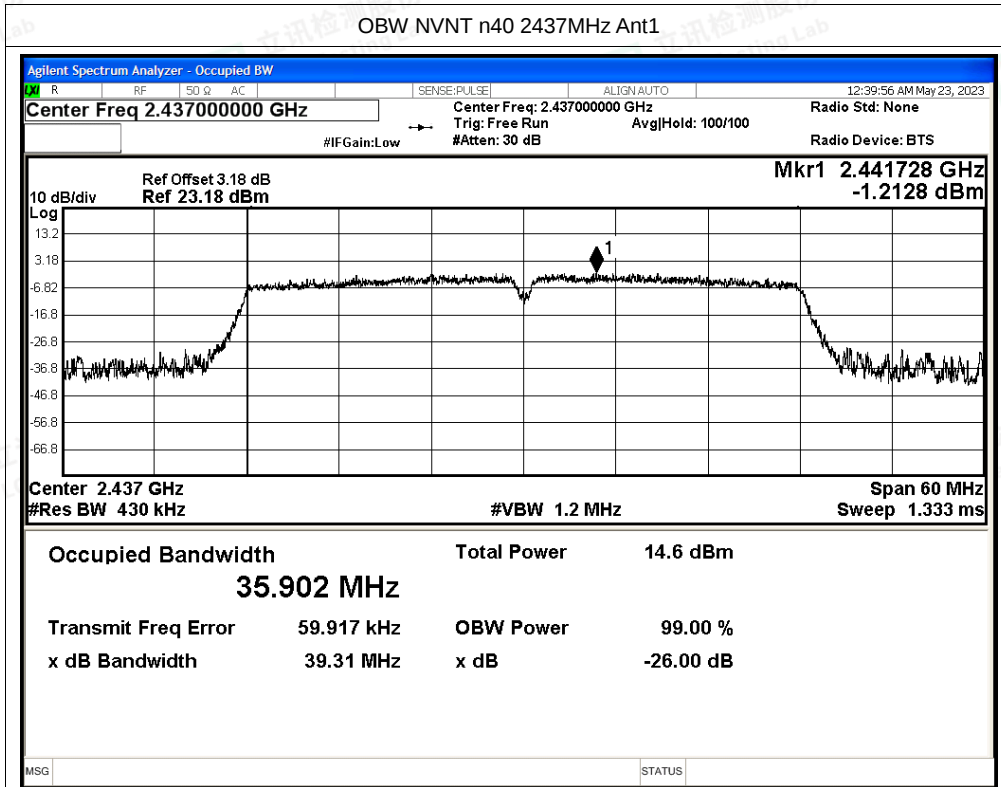


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B.3 Maximum Conducted Output Power and e.i.r.p.

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.47	30	2	16.47	36	Pass
NVNT	b	2437	Ant1	14.07	30	2	16.07	36	Pass
NVNT	b	2462	Ant1	13.82	30	2	15.82	36	Pass
NVNT	g	2412	Ant1	14.94	30	2	16.94	36	Pass
NVNT	g	2437	Ant1	15.45	30	2	17.45	36	Pass
NVNT	g	2462	Ant1	14.45	30	2	16.45	36	Pass
NVNT	n20	2412	Ant1	14.96	30	2	16.96	36	Pass
NVNT	n20	2437	Ant1	13.71	30	2	15.71	36	Pass
NVNT	n20	2462	Ant1	15.07	30	2	17.07	36	Pass
NVNT	n40	2422	Ant1	13.40	30	2	15.40	36	Pass
NVNT	n40	2437	Ant1	13.50	30	2	15.50	36	Pass
NVNT	n40	2452	Ant1	13.43	30	2	15.43	36	Pass



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B.4 Maximum Power Spectral Density Level

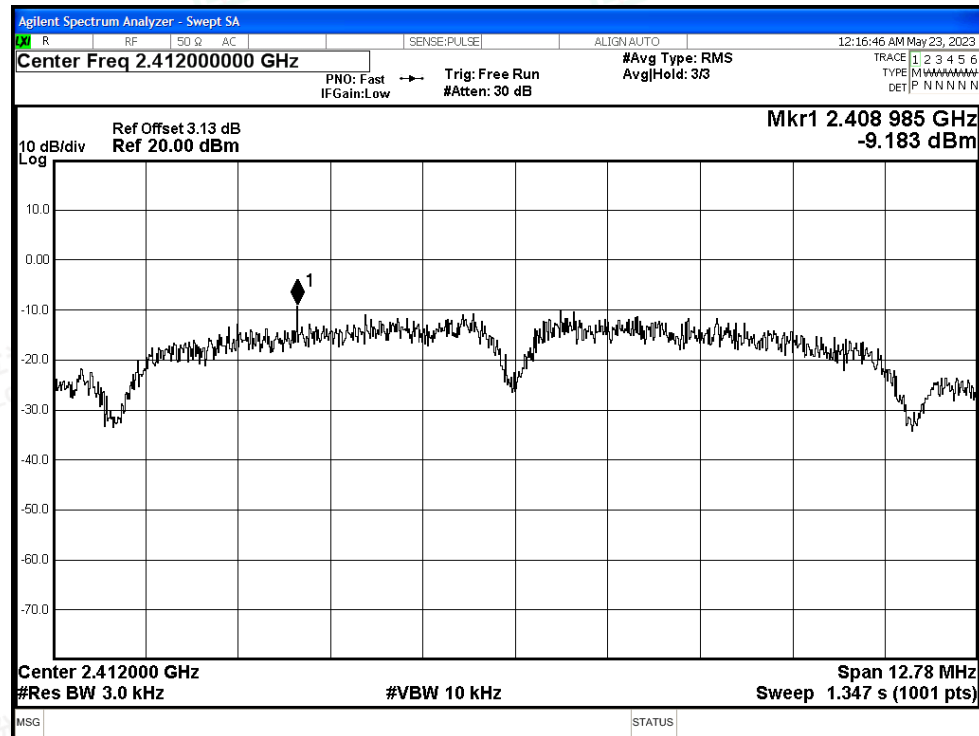
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.18	8	Pass
NVNT	b	2437	Ant1	-10.31	8	Pass
NVNT	b	2462	Ant1	-10.68	8	Pass
NVNT	g	2412	Ant1	-12.21	8	Pass
NVNT	g	2437	Ant1	-12.6	8	Pass
NVNT	g	2462	Ant1	-11.99	8	Pass
NVNT	n20	2412	Ant1	-12.83	8	Pass
NVNT	n20	2437	Ant1	-14.4	8	Pass
NVNT	n20	2462	Ant1	-14.52	8	Pass
NVNT	n40	2422	Ant1	-18.04	8	Pass
NVNT	n40	2437	Ant1	-19.99	8	Pass
NVNT	n40	2452	Ant1	-18.69	8	Pass



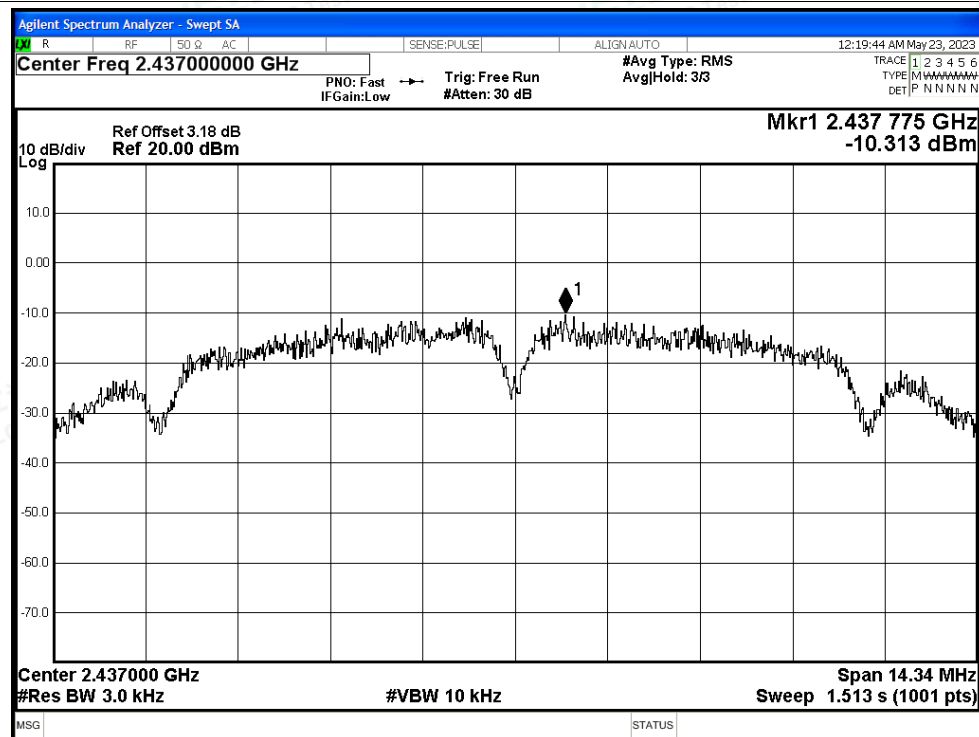


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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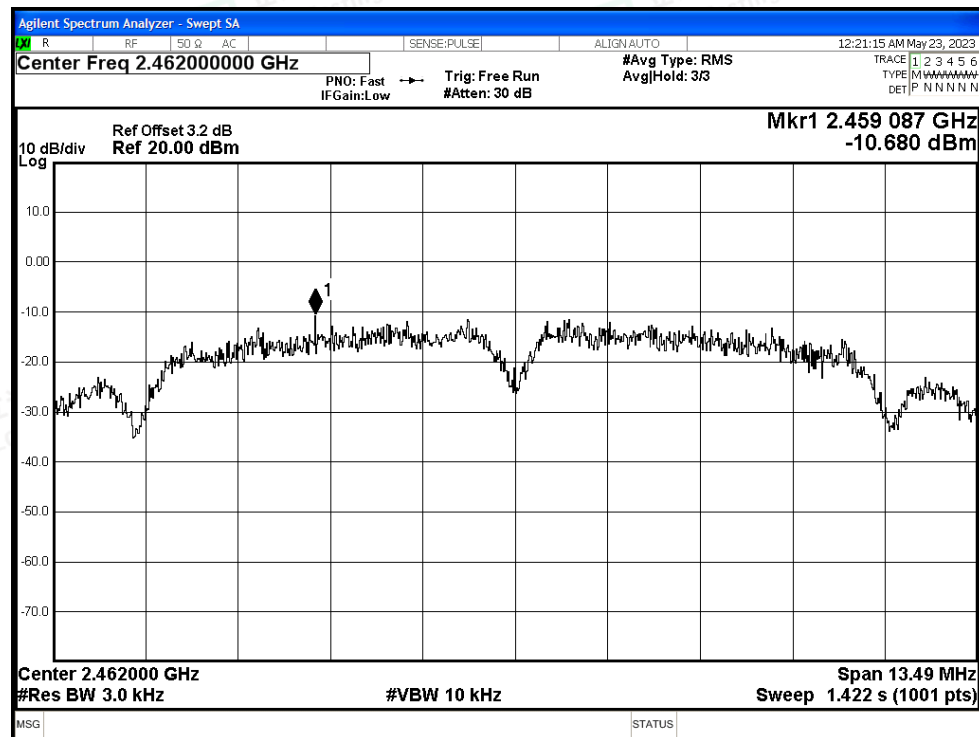
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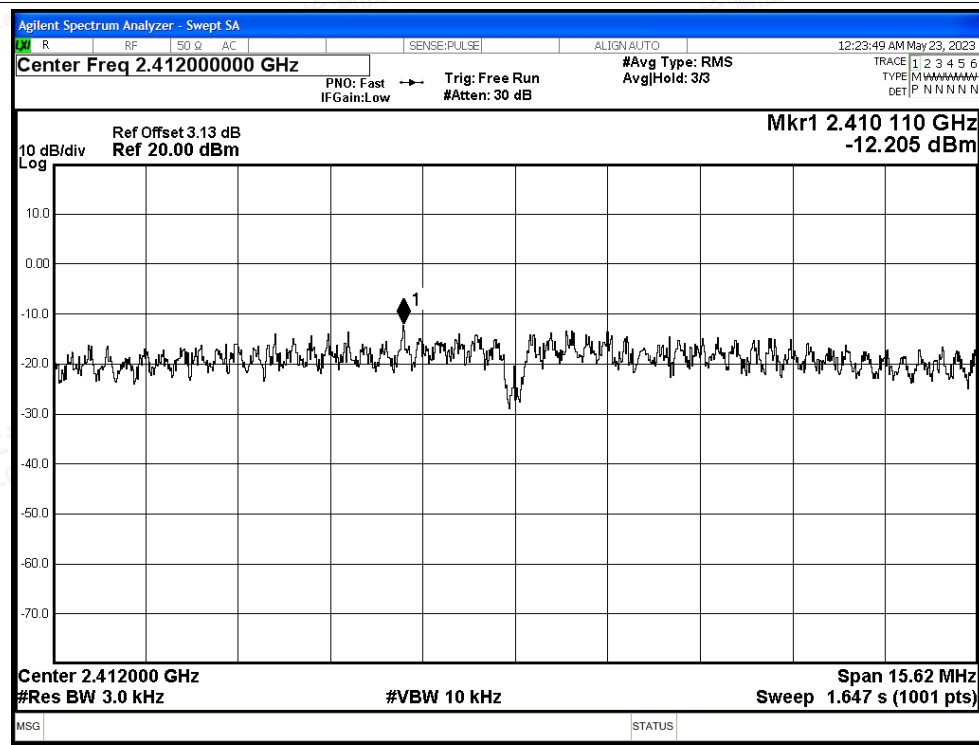
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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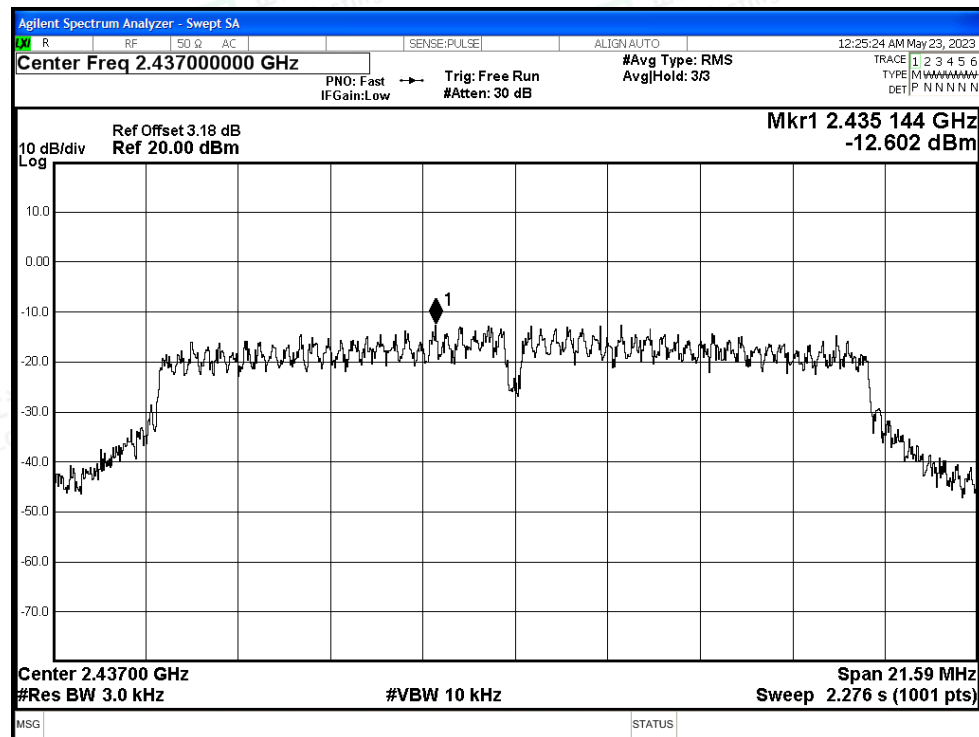
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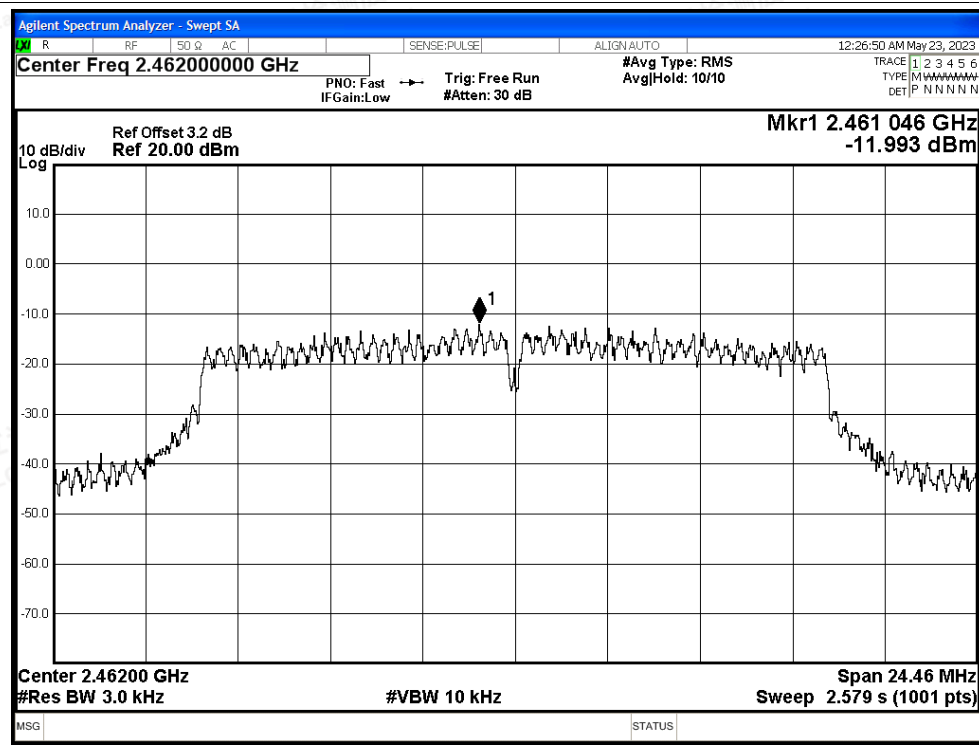
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

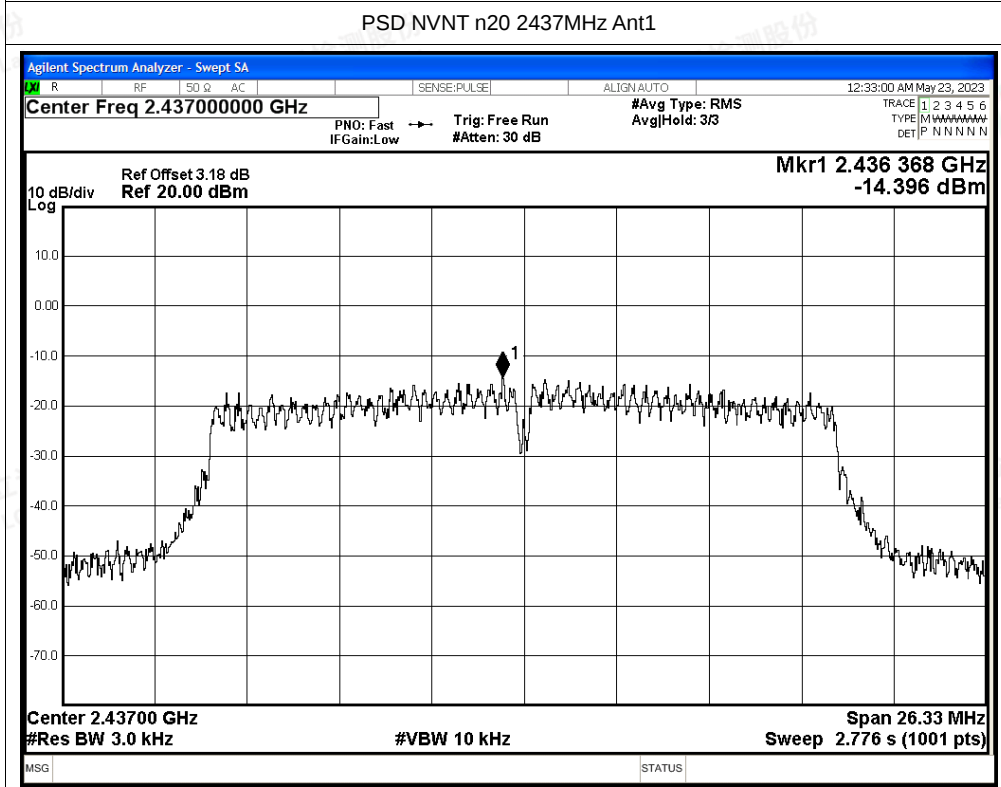
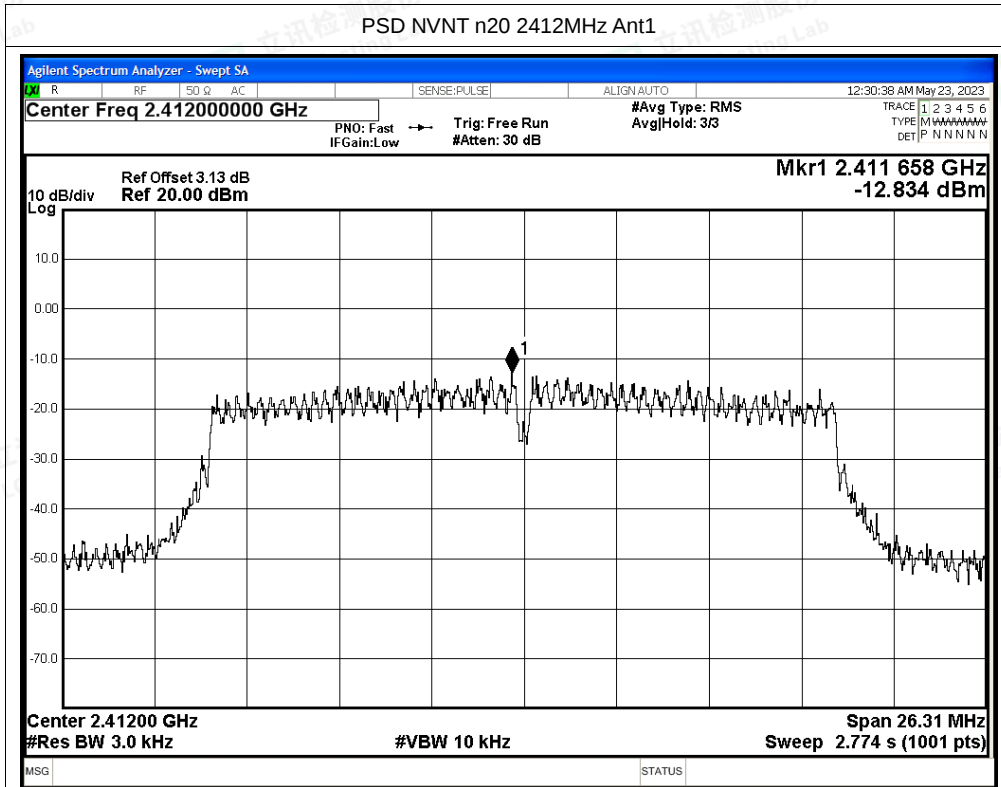


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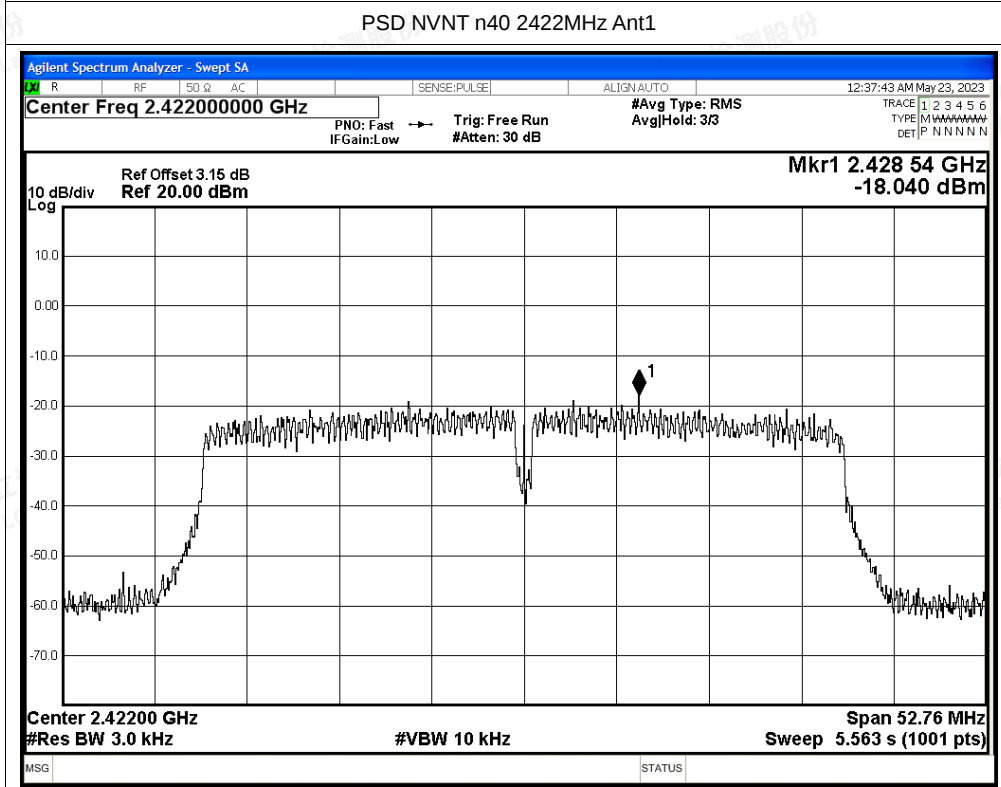
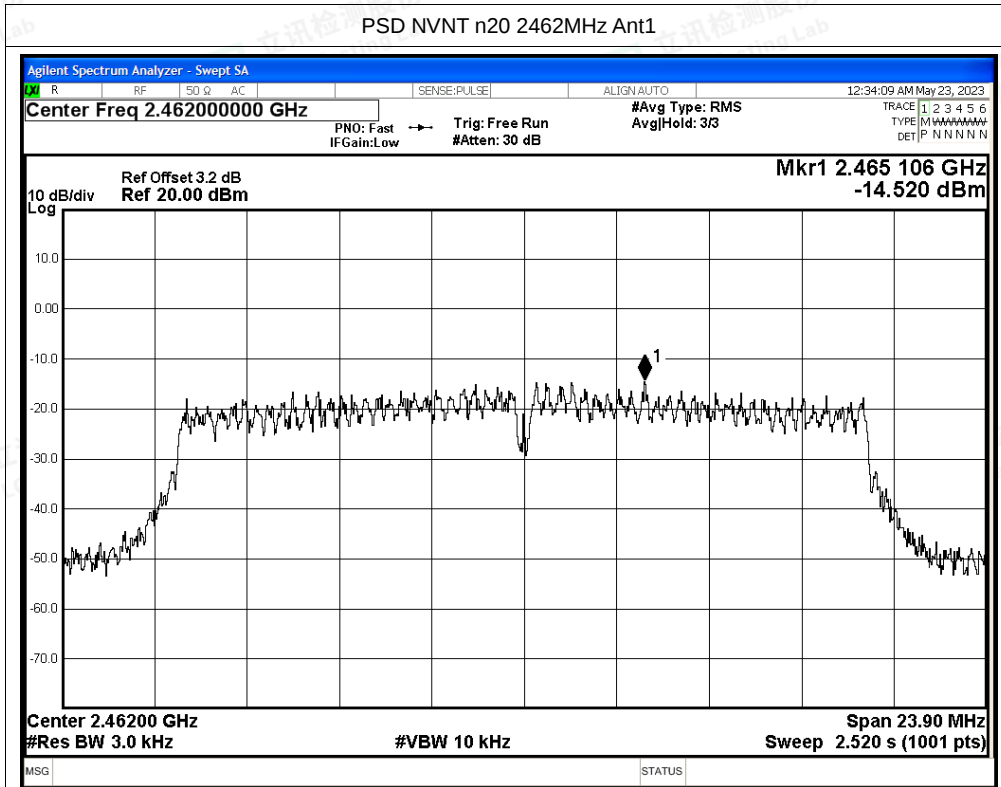


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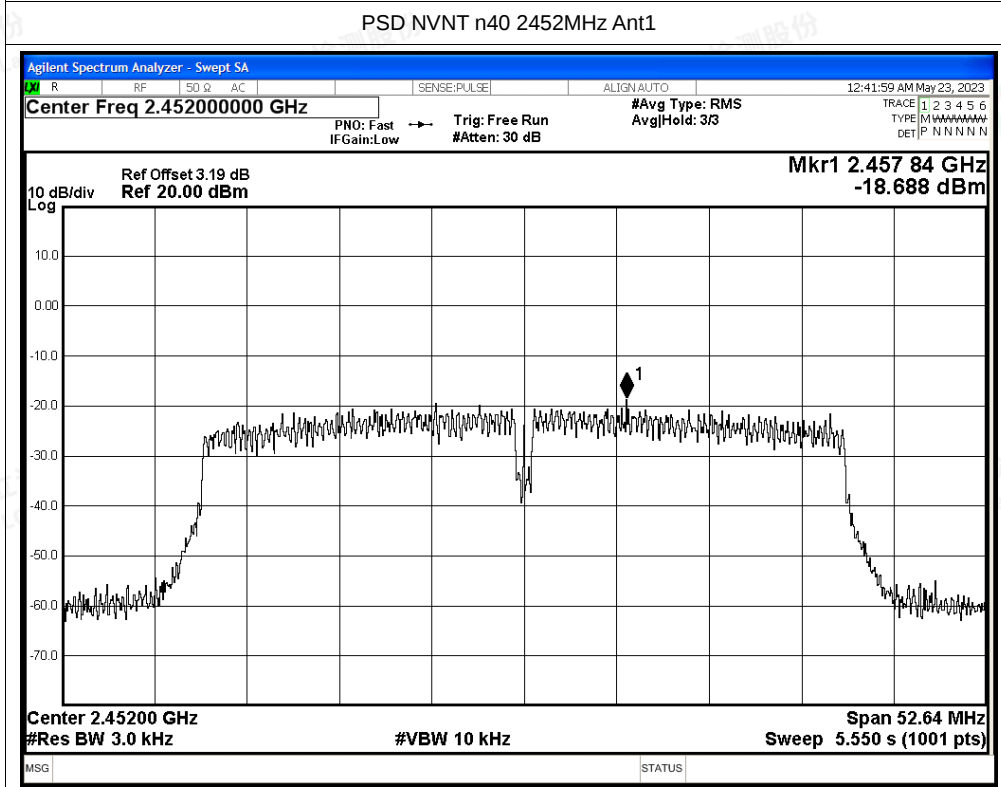
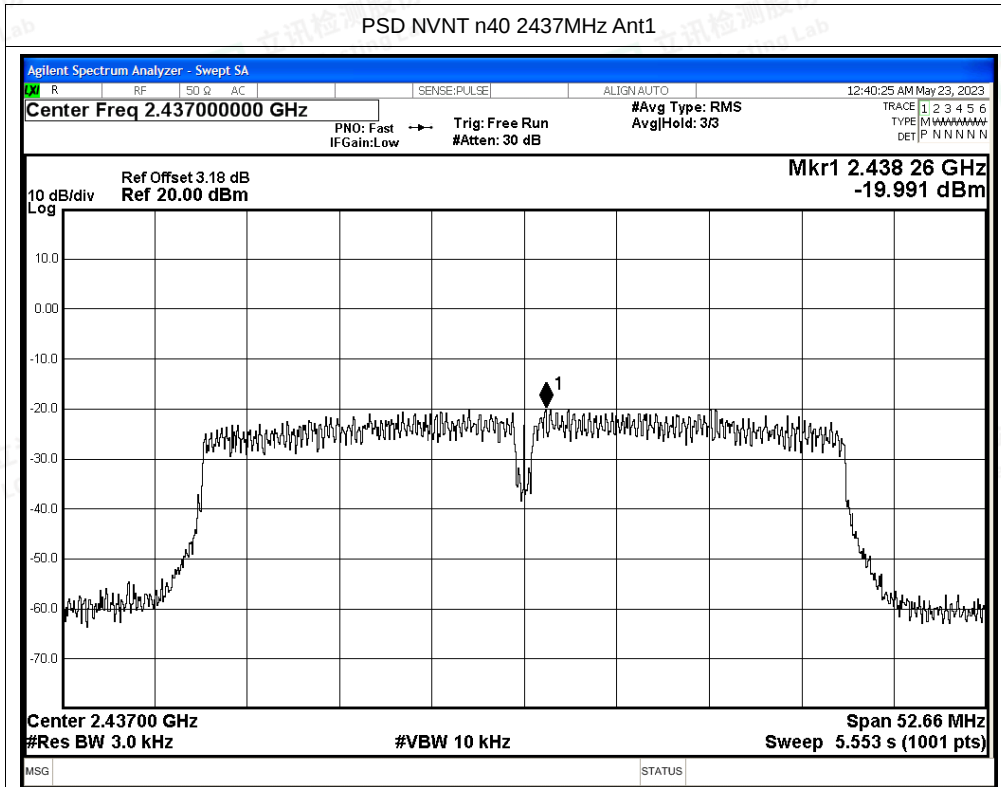


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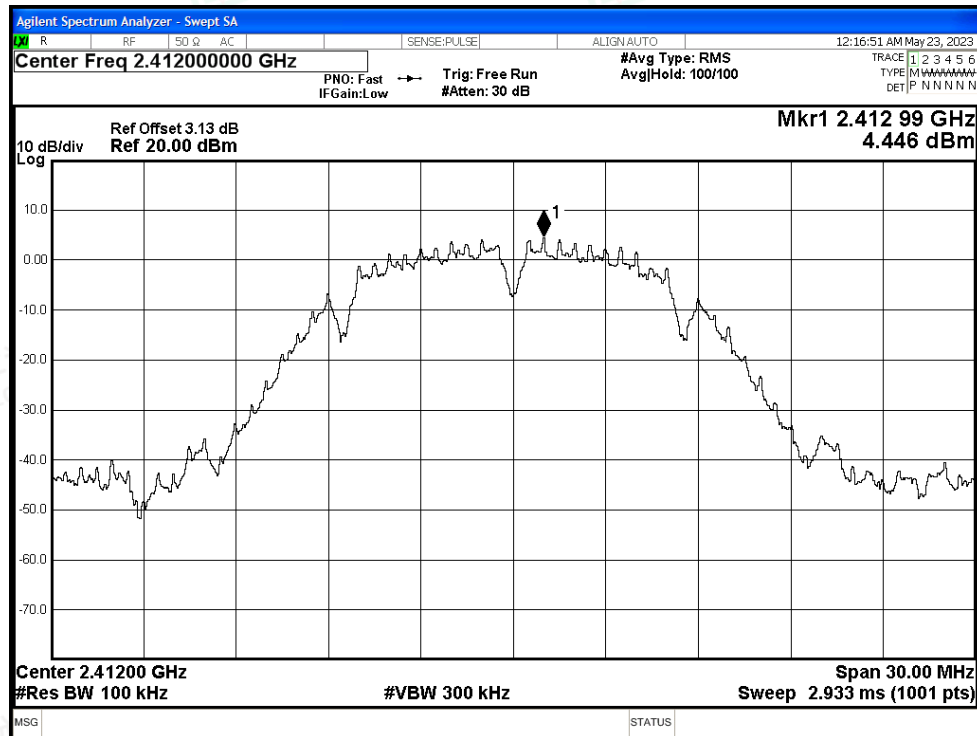
B.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.25	-20	Pass
NVNT	b	2462	Ant1	-58.12	-20	Pass
NVNT	g	2412	Ant1	-33.33	-20	Pass
NVNT	g	2462	Ant1	-43.22	-20	Pass
NVNT	n20	2412	Ant1	-34.01	-20	Pass
NVNT	n20	2462	Ant1	-47.46	-20	Pass
NVNT	n40	2422	Ant1	-33.23	-20	Pass
NVNT	n40	2452	Ant1	-32.59	-20	Pass

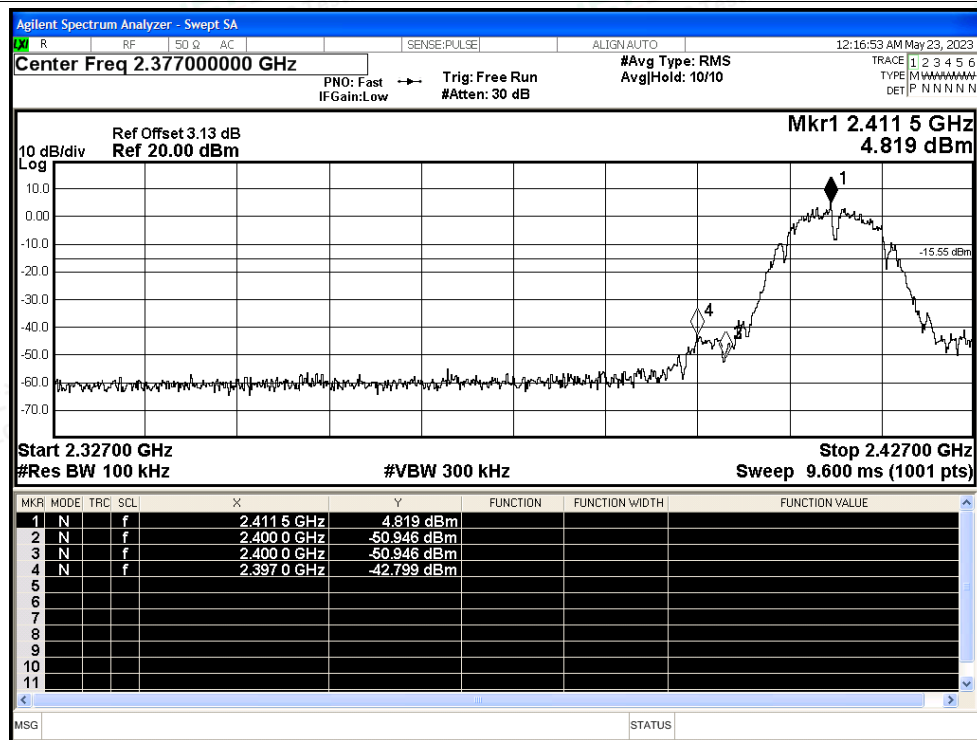


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

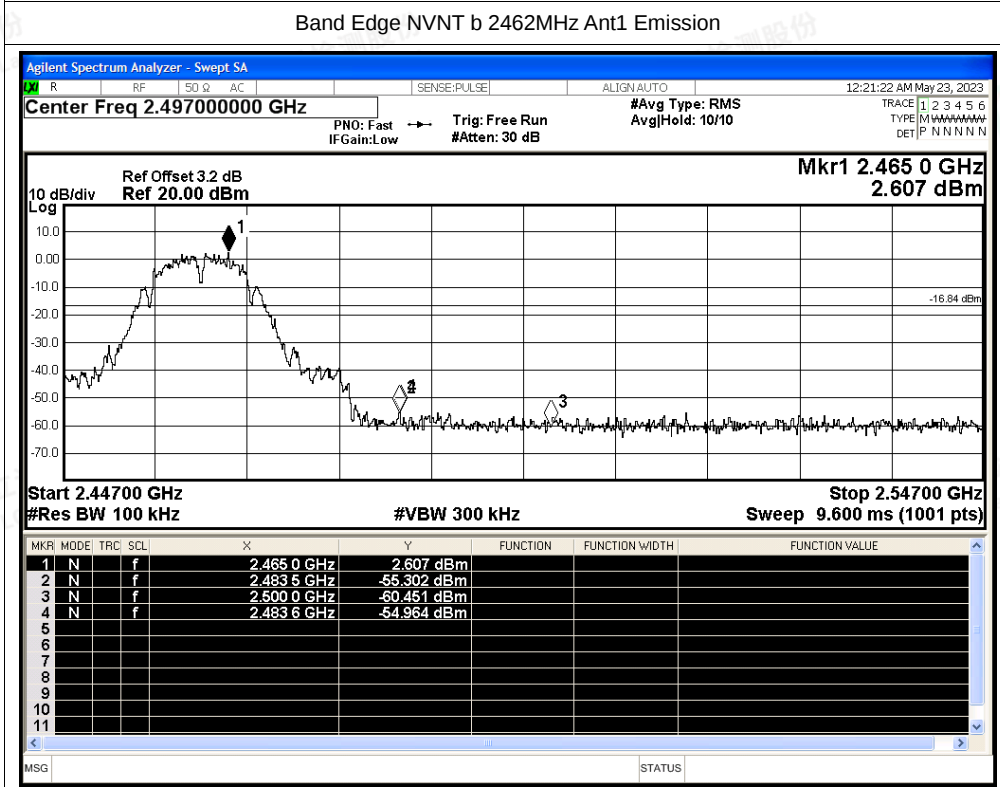
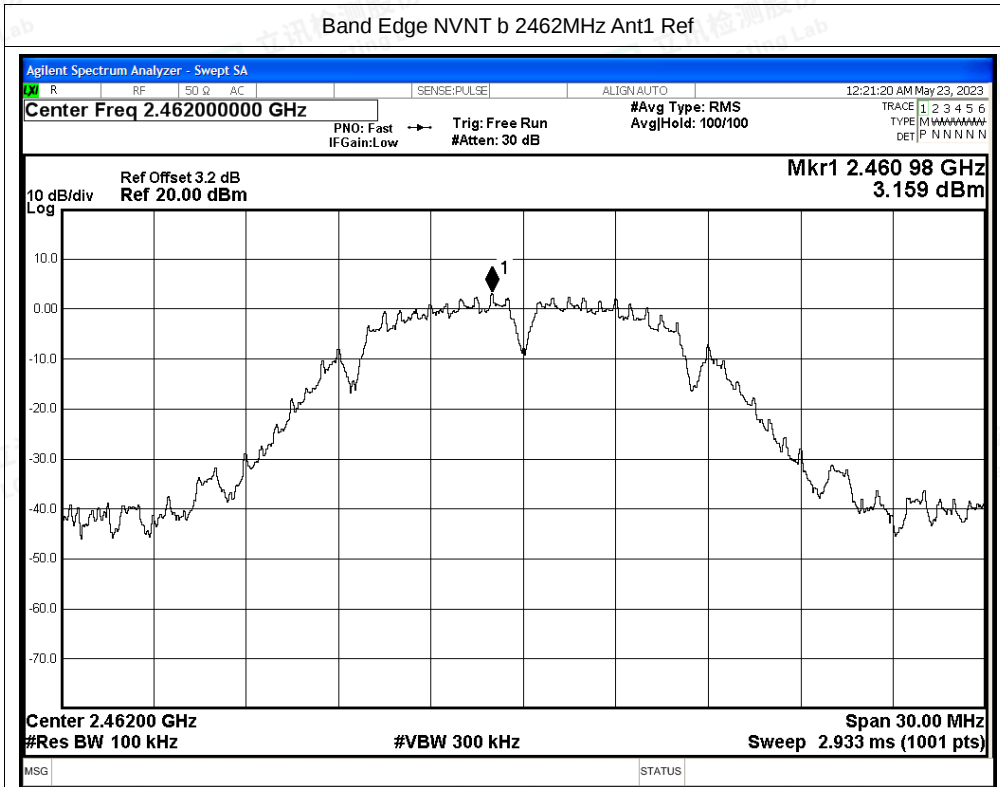


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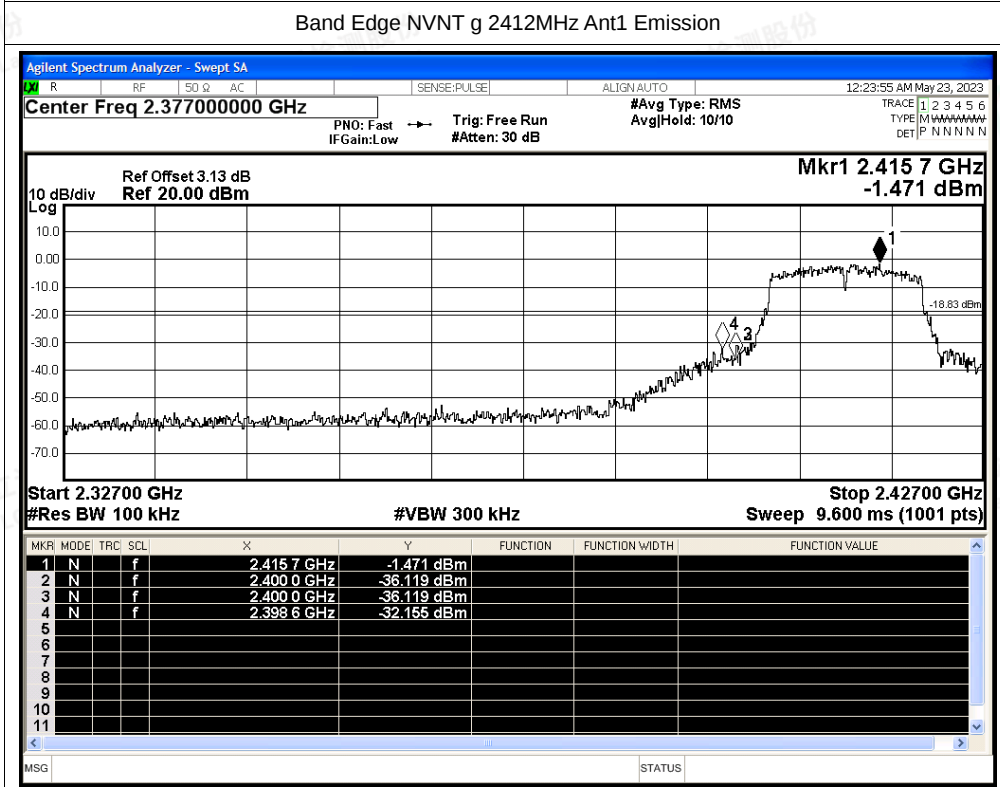
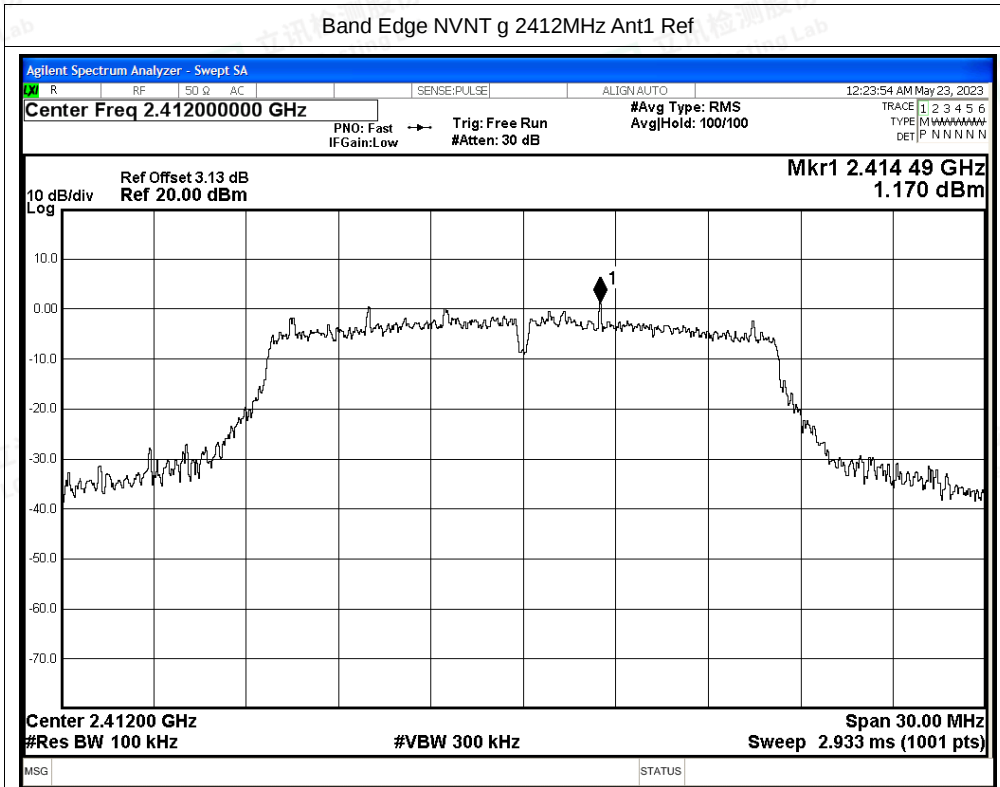


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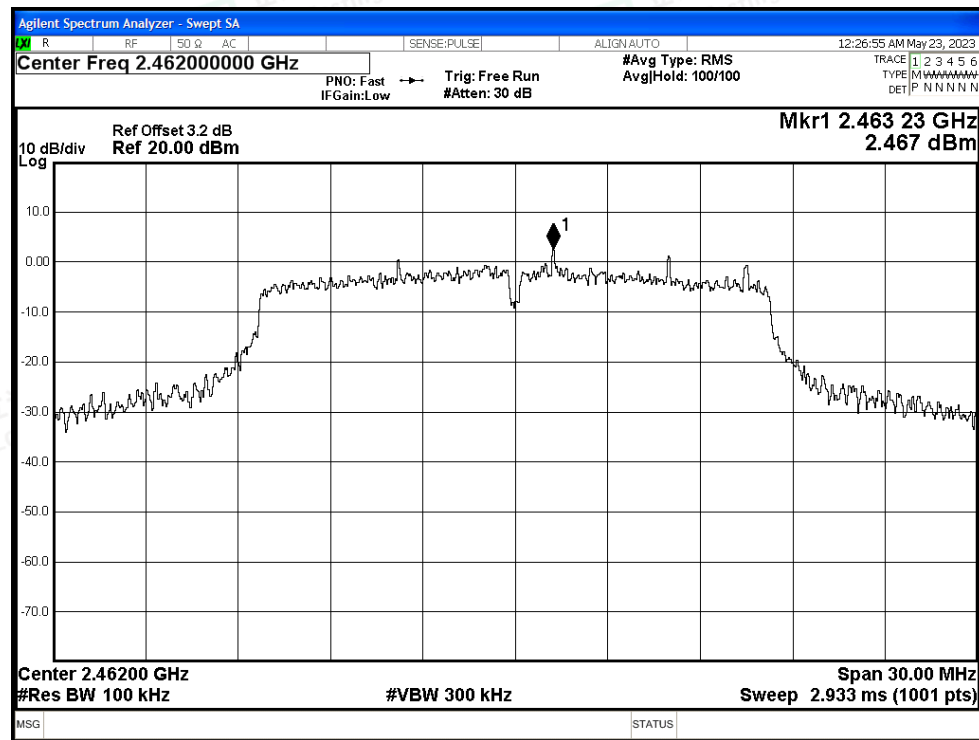
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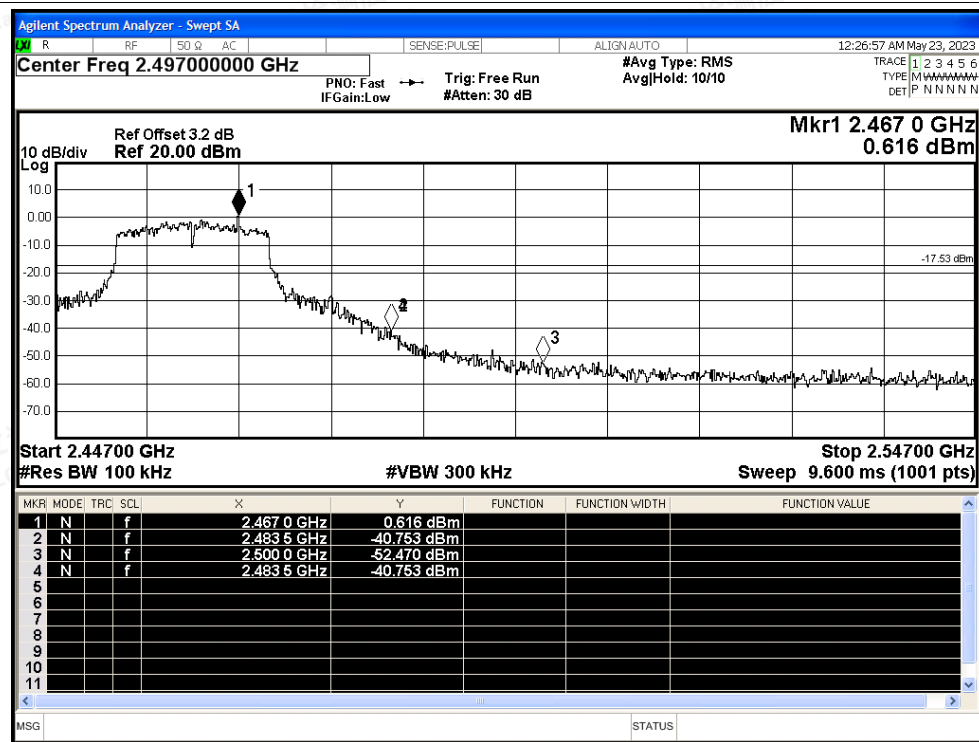
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



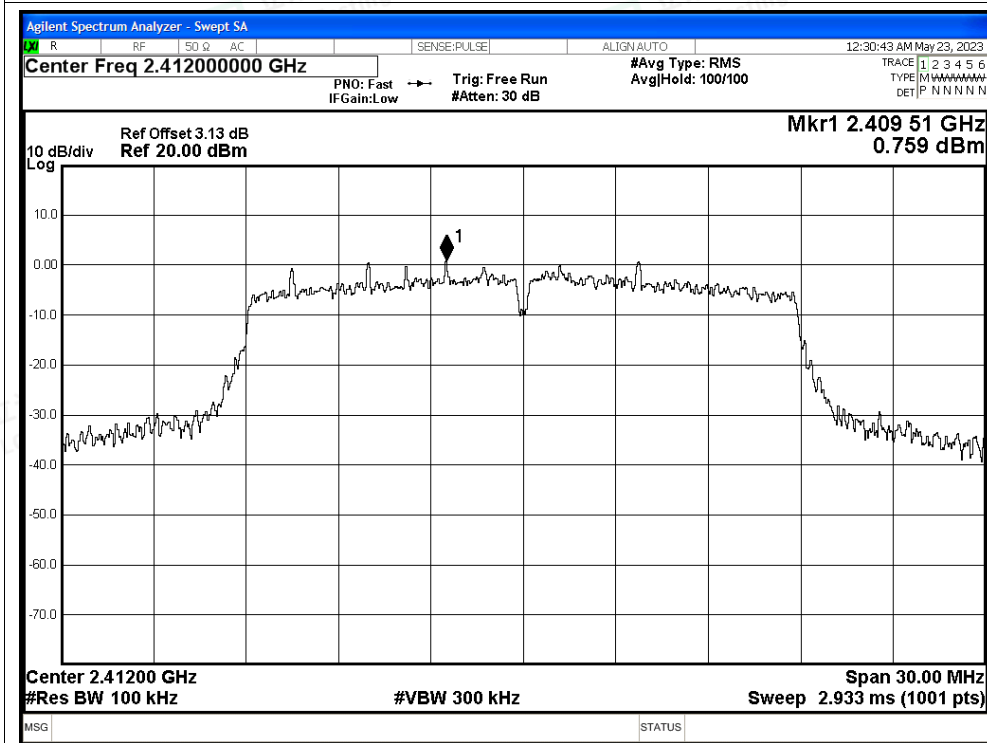
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

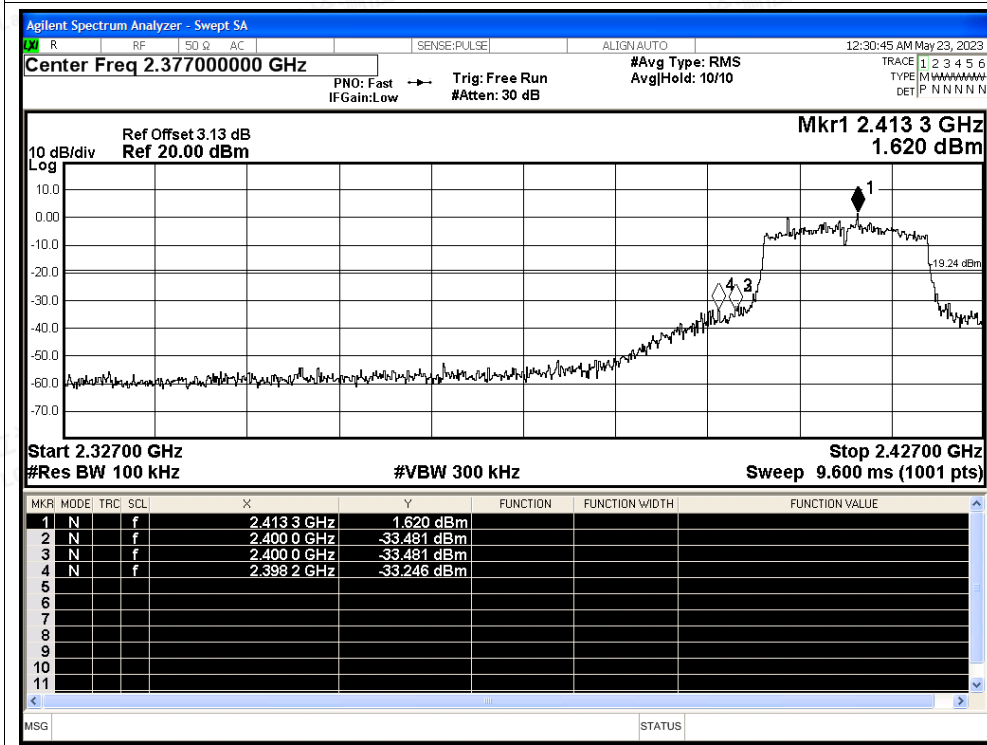
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission

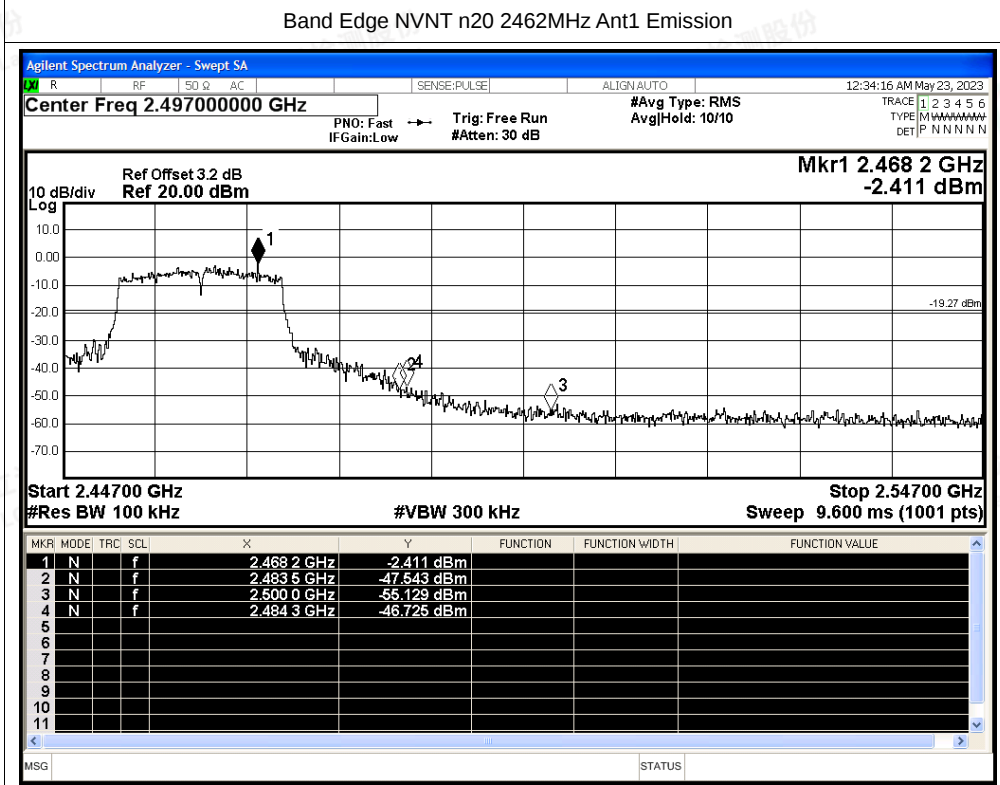
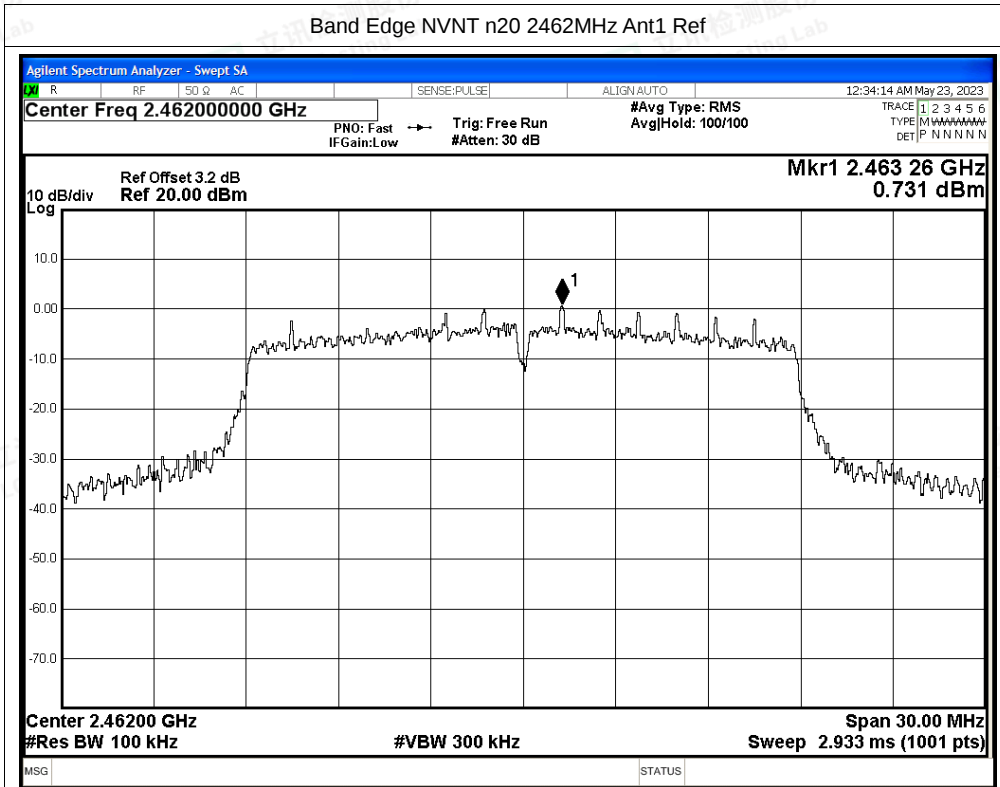


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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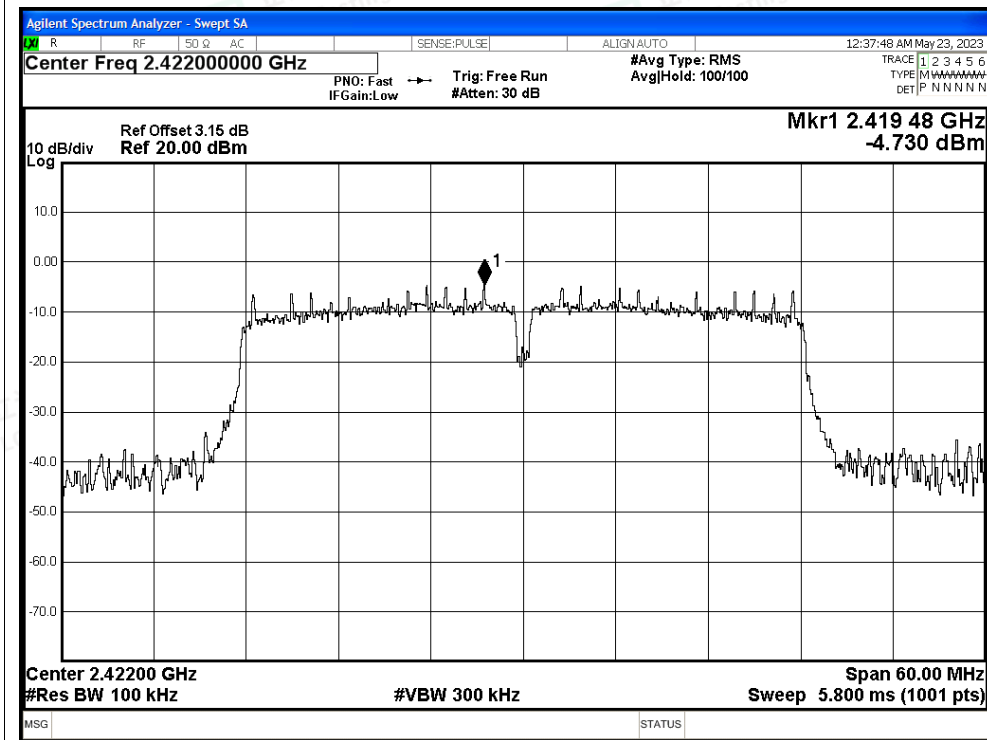
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

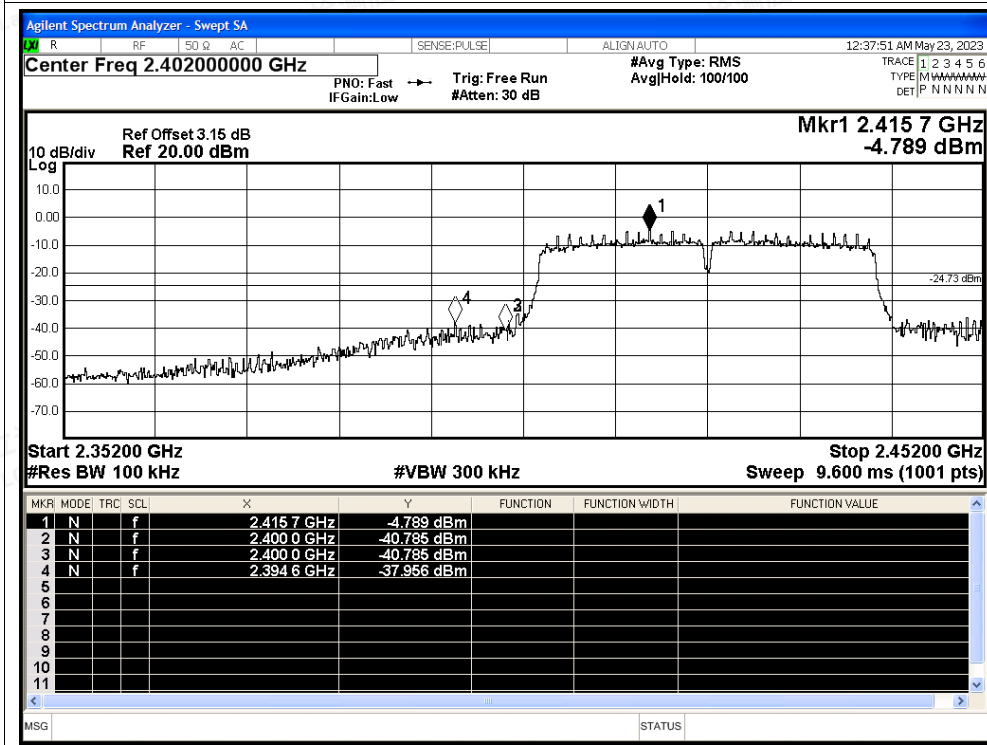
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

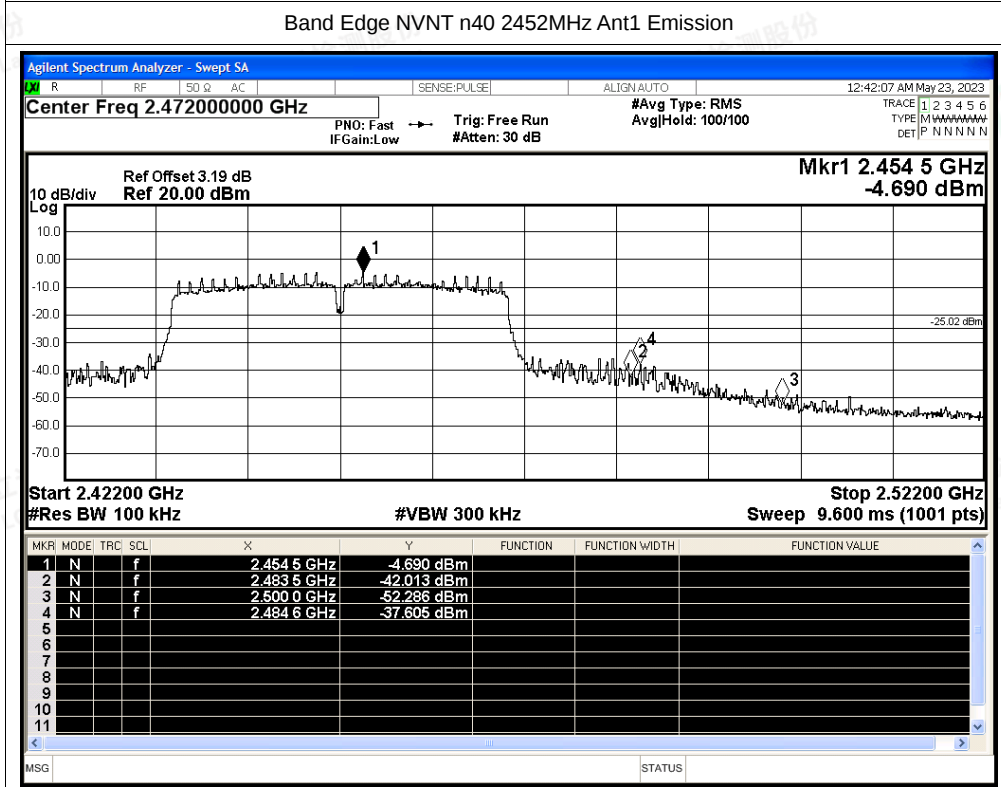
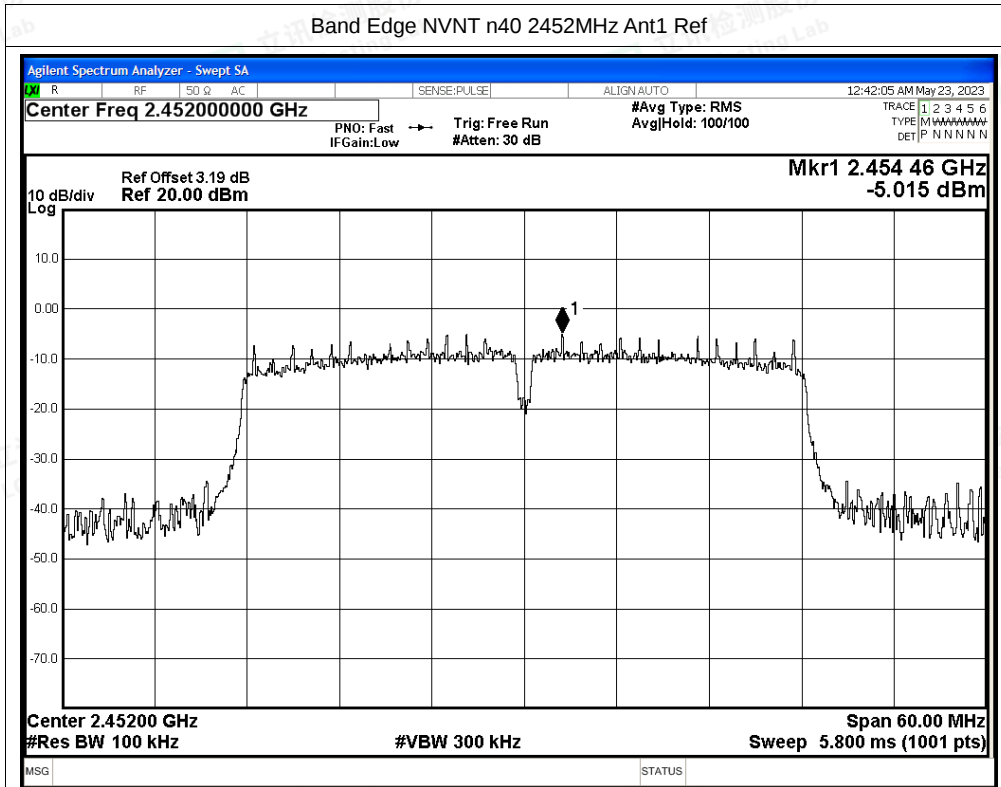


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Scan code to check authenticity

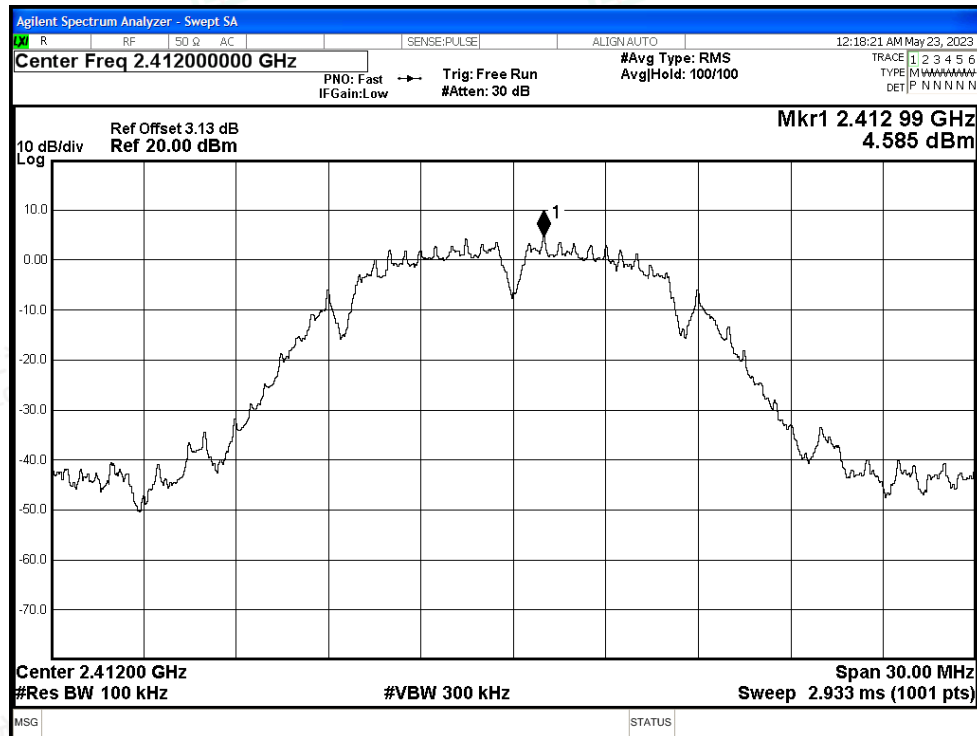
B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.18	-20	Pass
NVNT	b	2437	Ant1	-46.86	-20	Pass
NVNT	b	2462	Ant1	-48.06	-20	Pass
NVNT	g	2412	Ant1	-46.85	-20	Pass
NVNT	g	2437	Ant1	-47.65	-20	Pass
NVNT	g	2462	Ant1	-47.06	-20	Pass
NVNT	n20	2412	Ant1	-46.85	-20	Pass
NVNT	n20	2437	Ant1	-45.06	-20	Pass
NVNT	n20	2462	Ant1	-44.18	-20	Pass
NVNT	n40	2422	Ant1	-41.06	-20	Pass
NVNT	n40	2437	Ant1	-40.1	-20	Pass
NVNT	n40	2452	Ant1	-40.45	-20	Pass

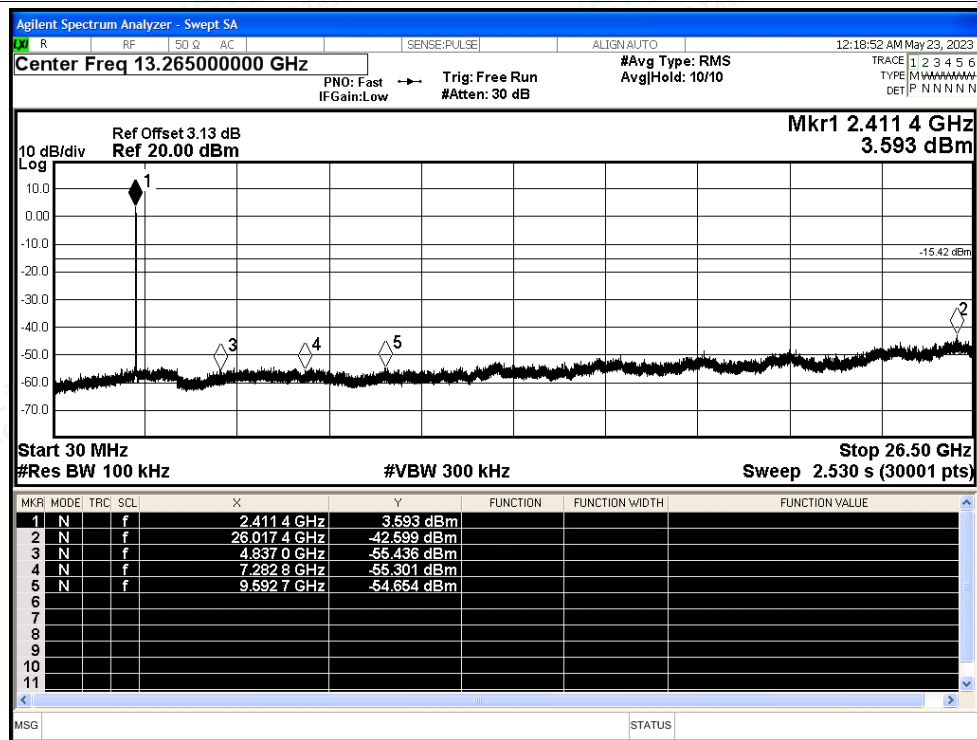


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

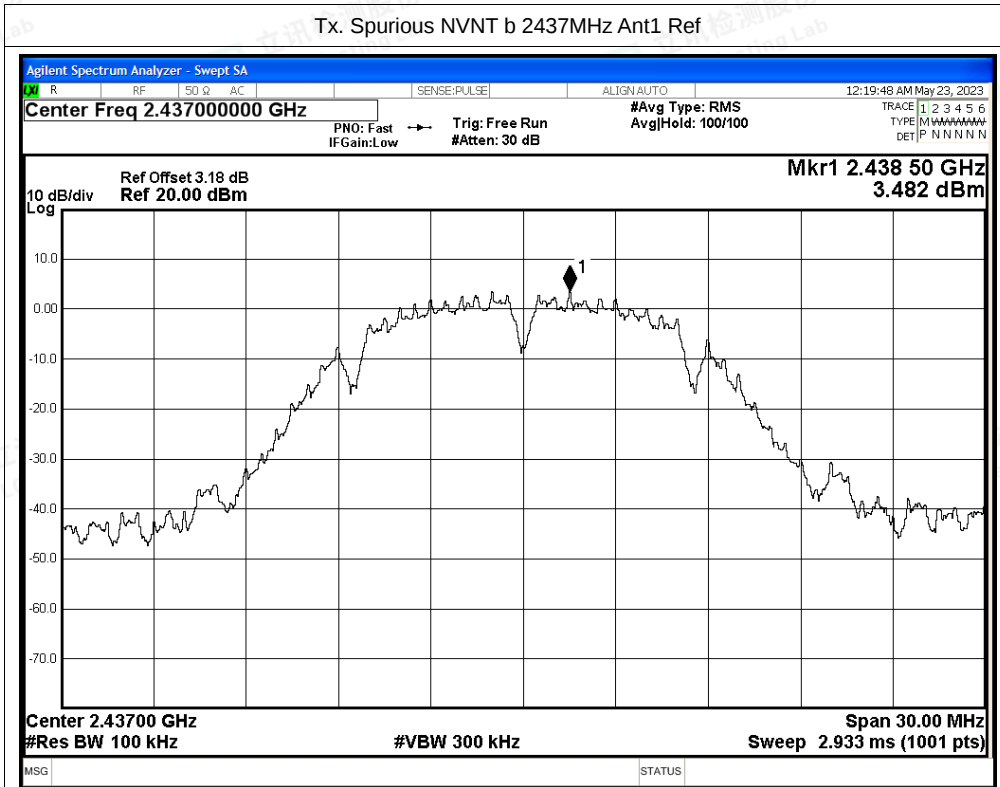


Shenzhen LCS Compliance Testing Laboratory Ltd.

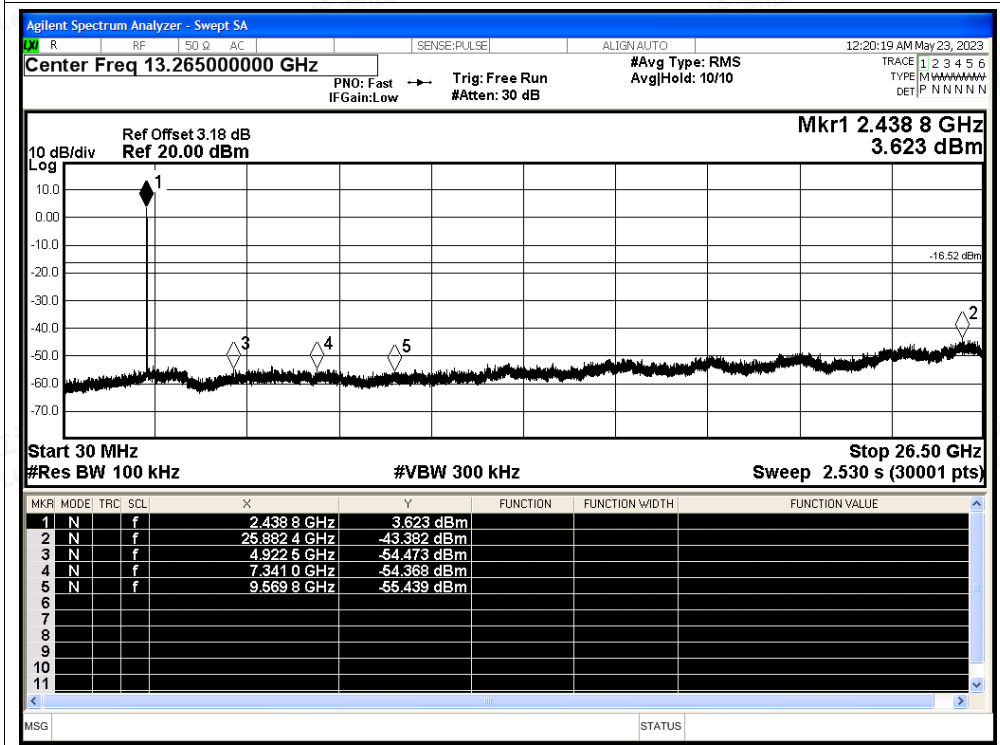
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2437MHz Ant1 Emission

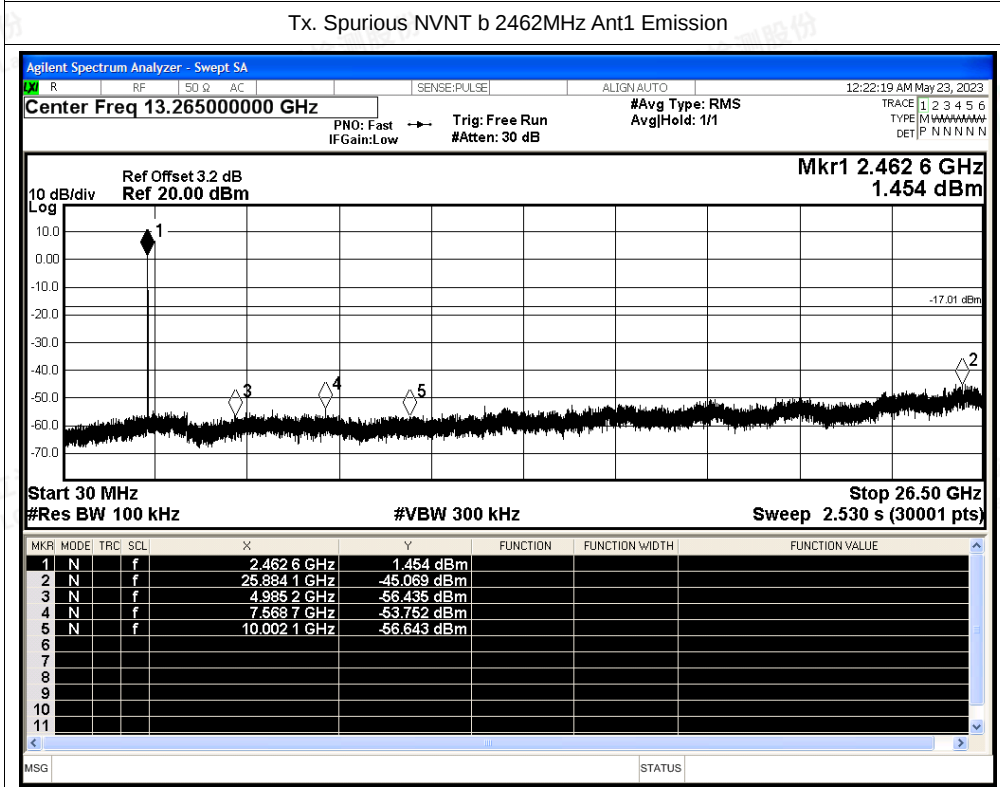
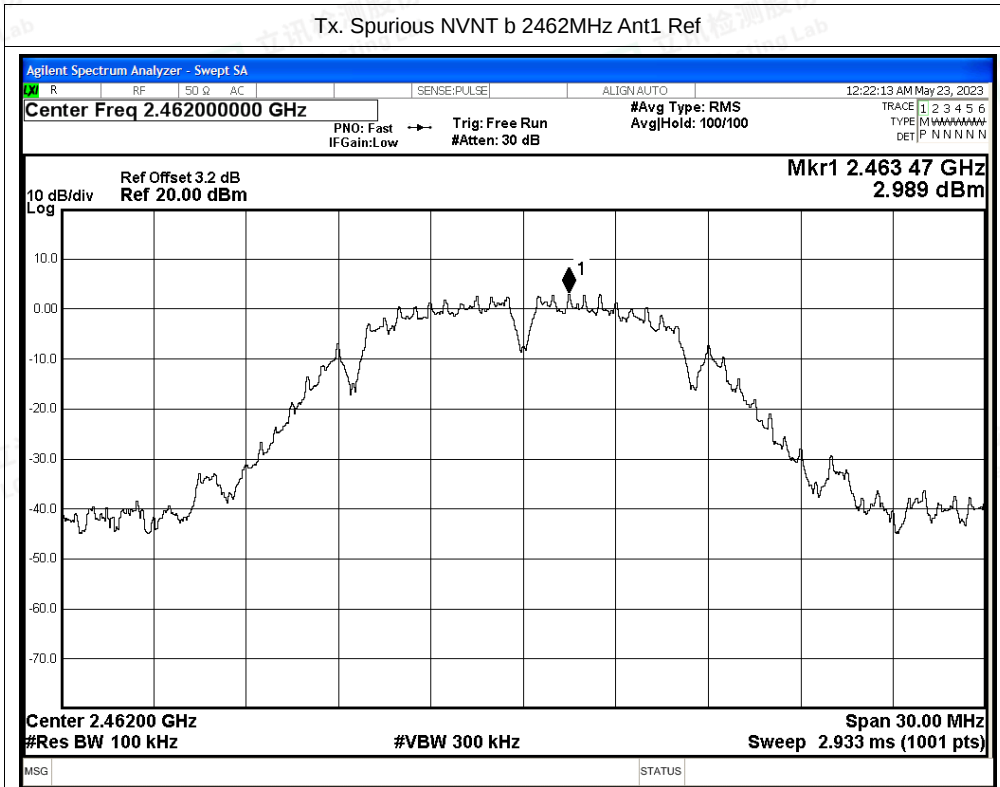


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Shenzhen LCS Compliance Testing Laboratory Ltd.

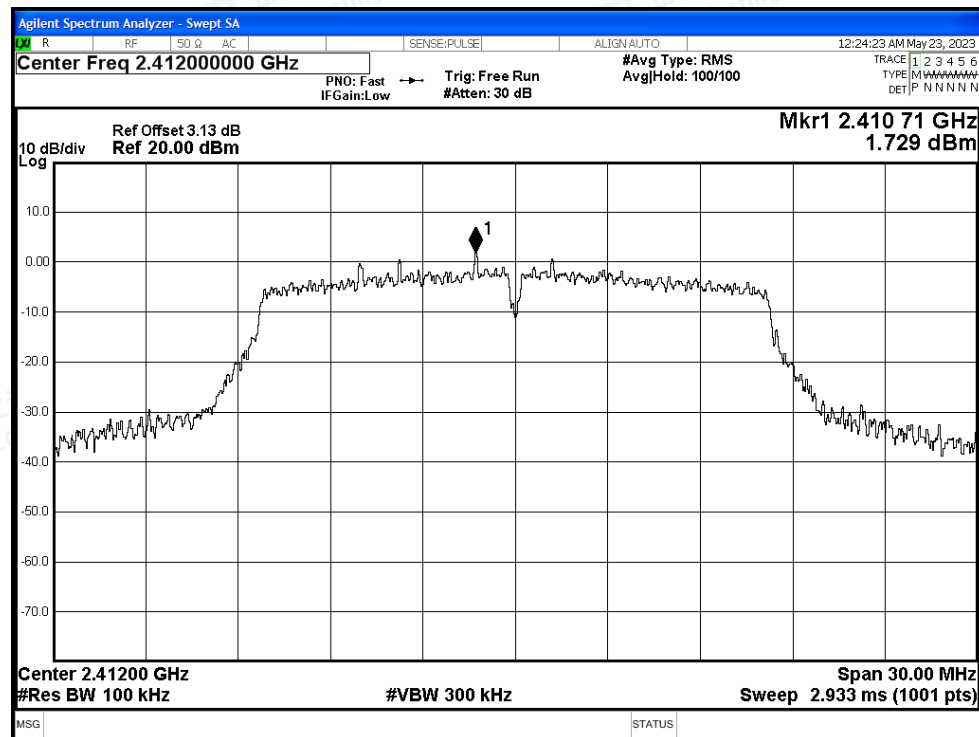
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

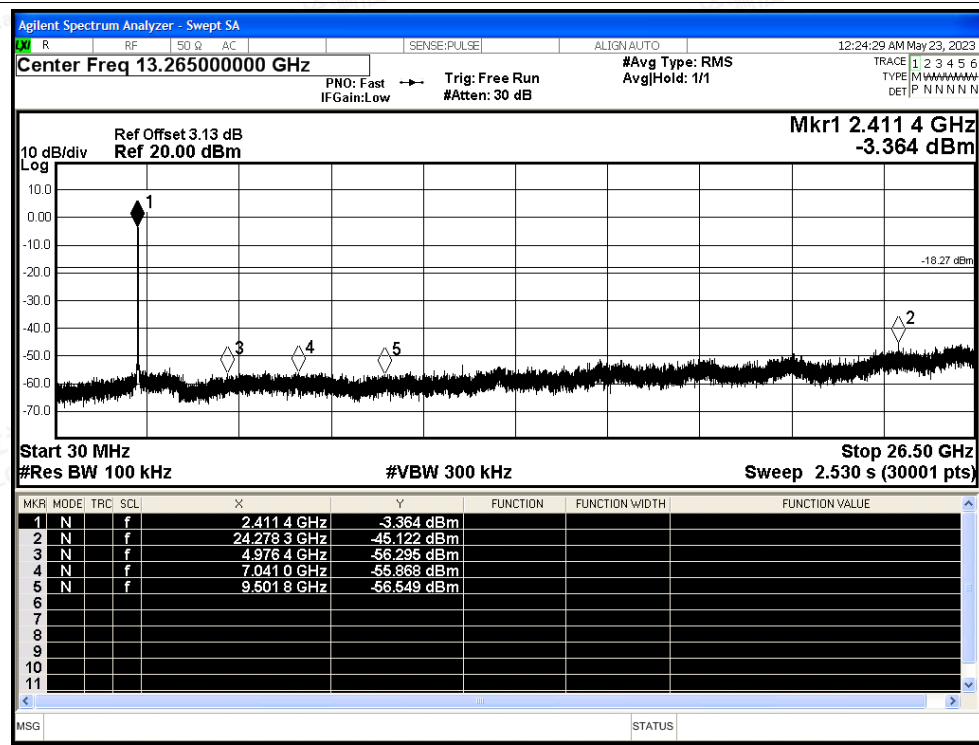
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

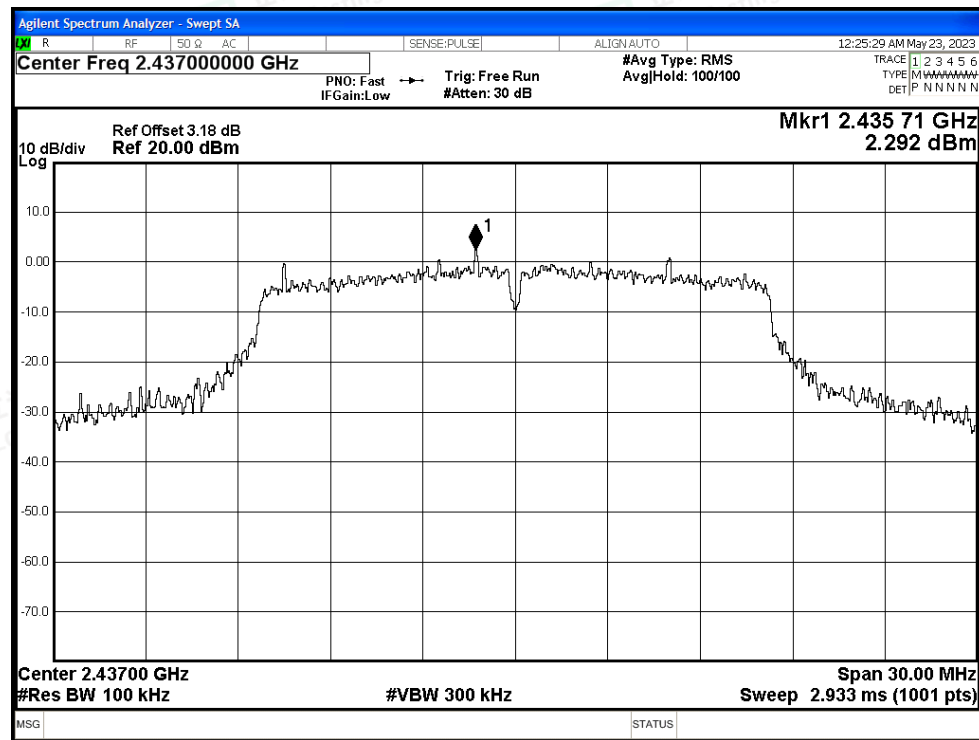
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

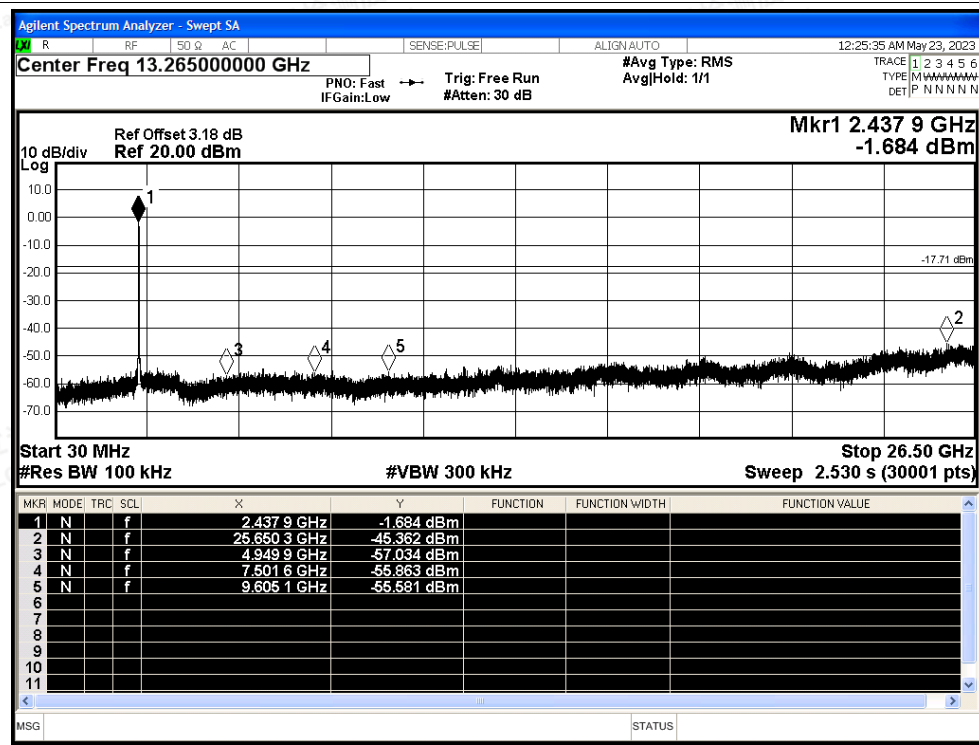
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

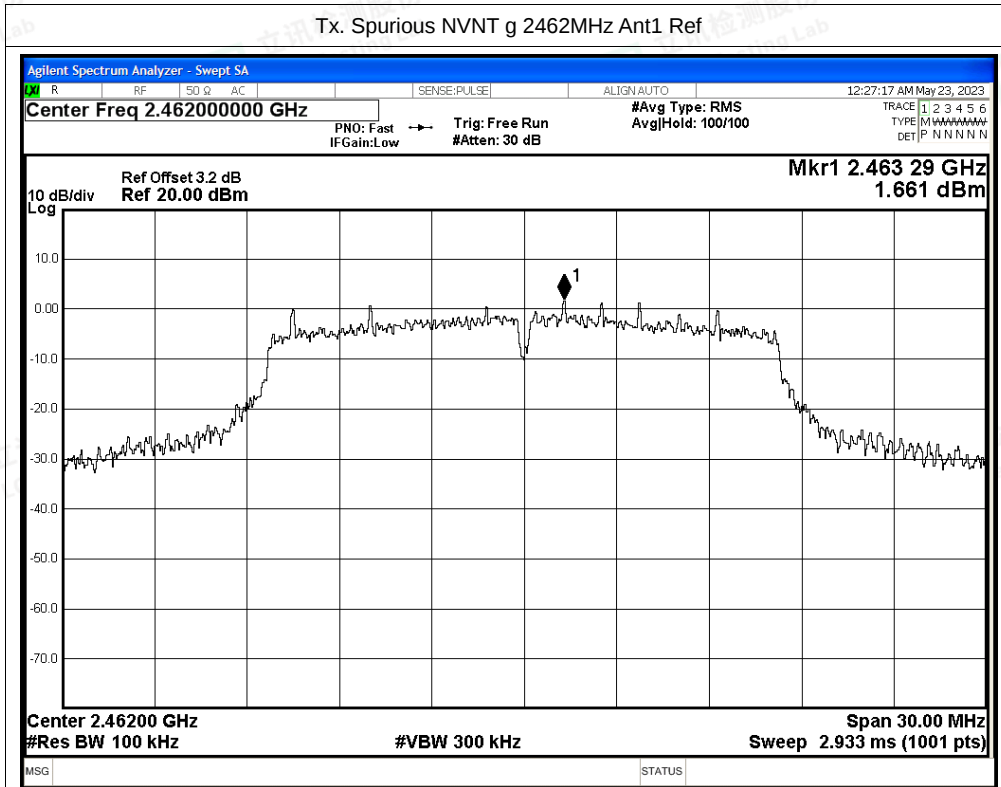


Shenzhen LCS Compliance Testing Laboratory Ltd.

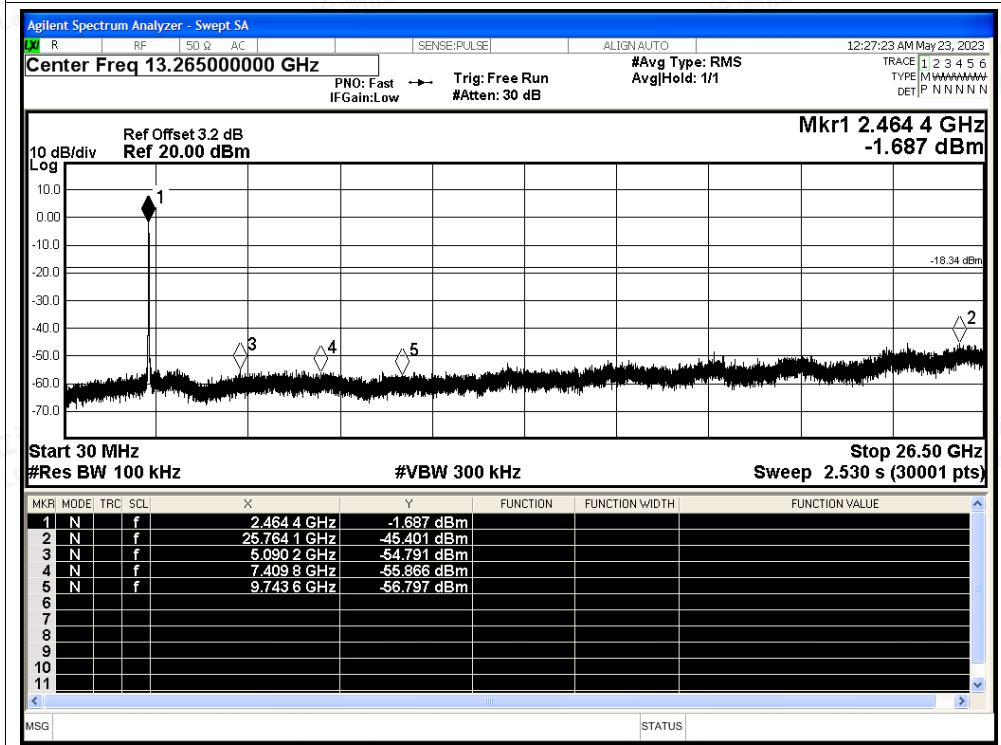
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

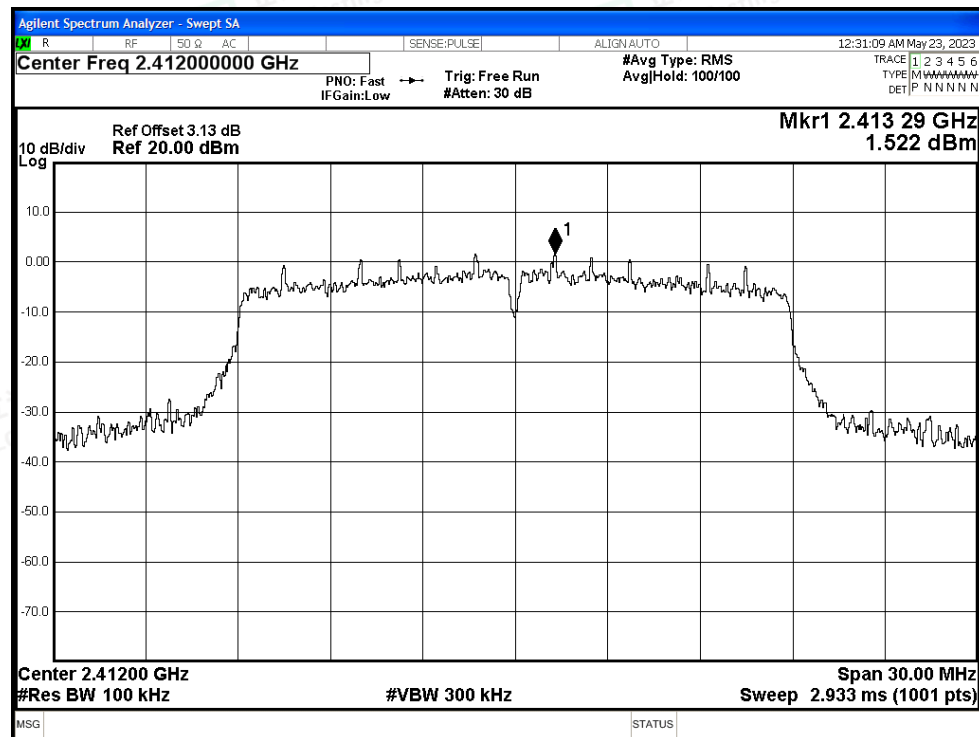
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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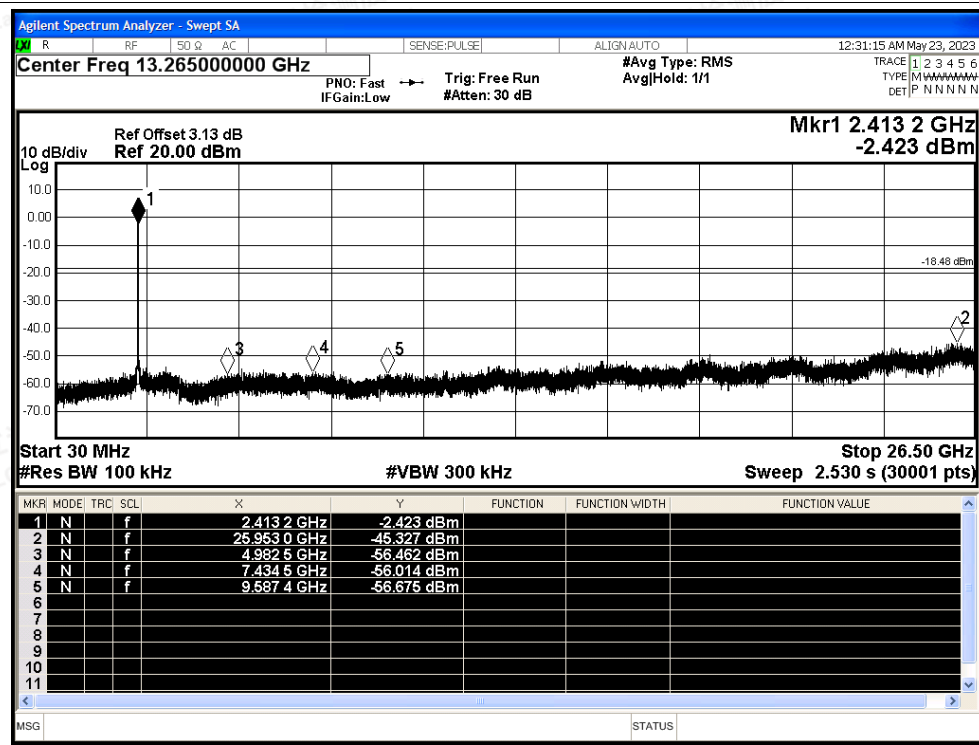
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

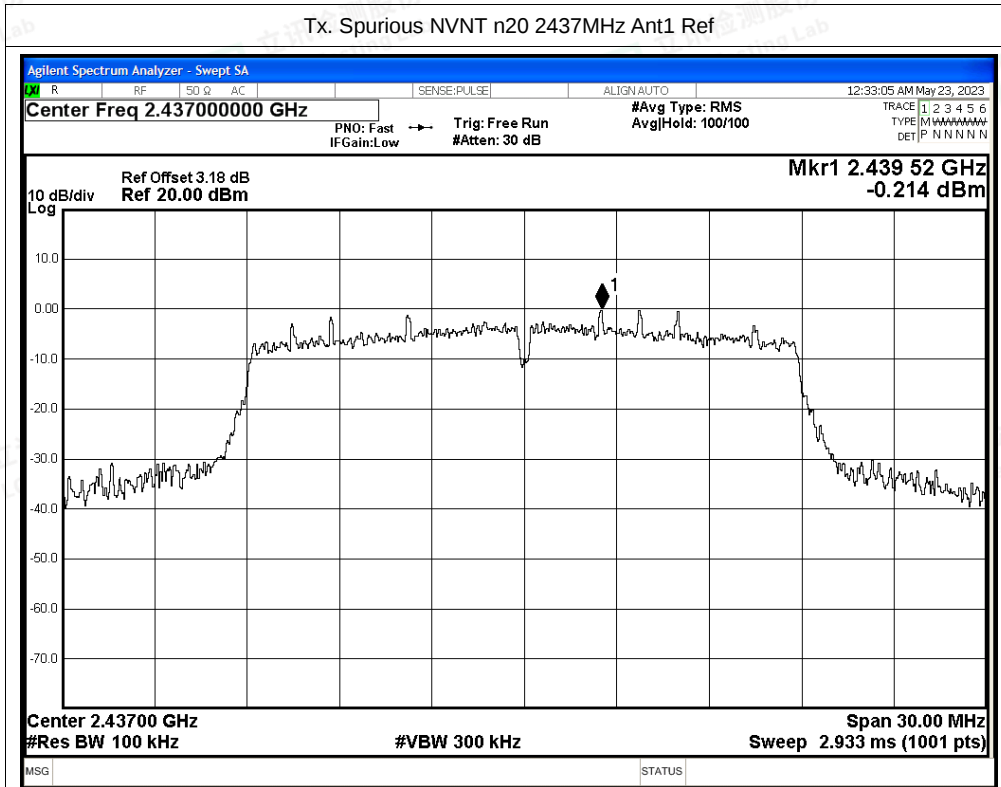


Shenzhen LCS Compliance Testing Laboratory Ltd.

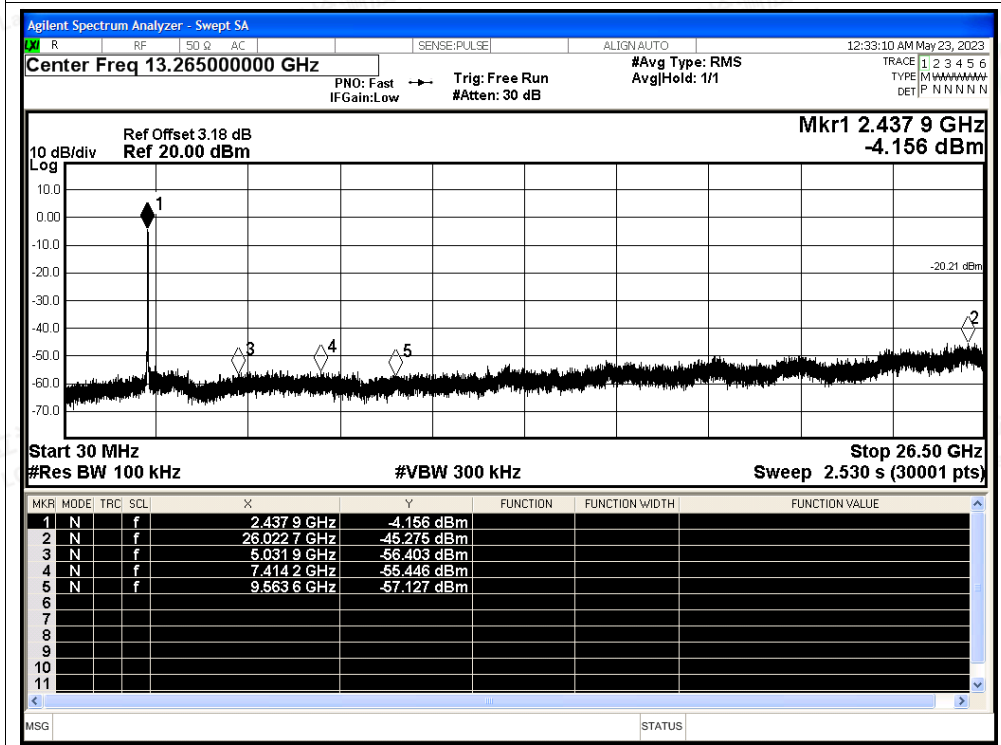
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2437MHz Ant1 Emission

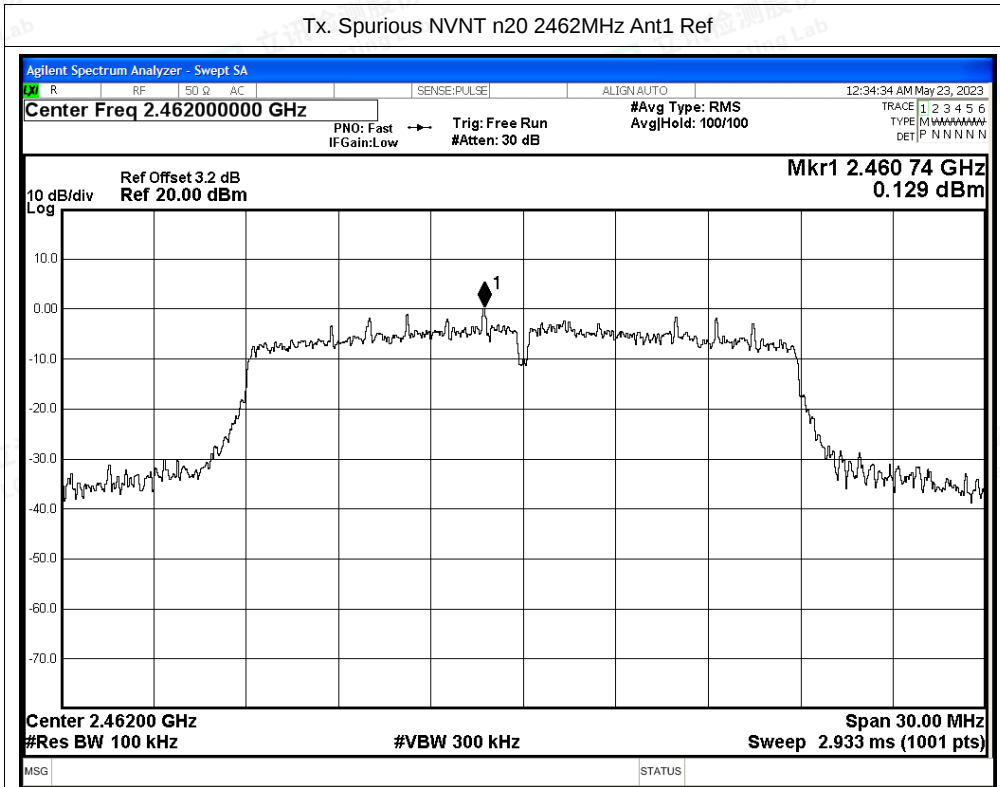


Shenzhen LCS Compliance Testing Laboratory Ltd.

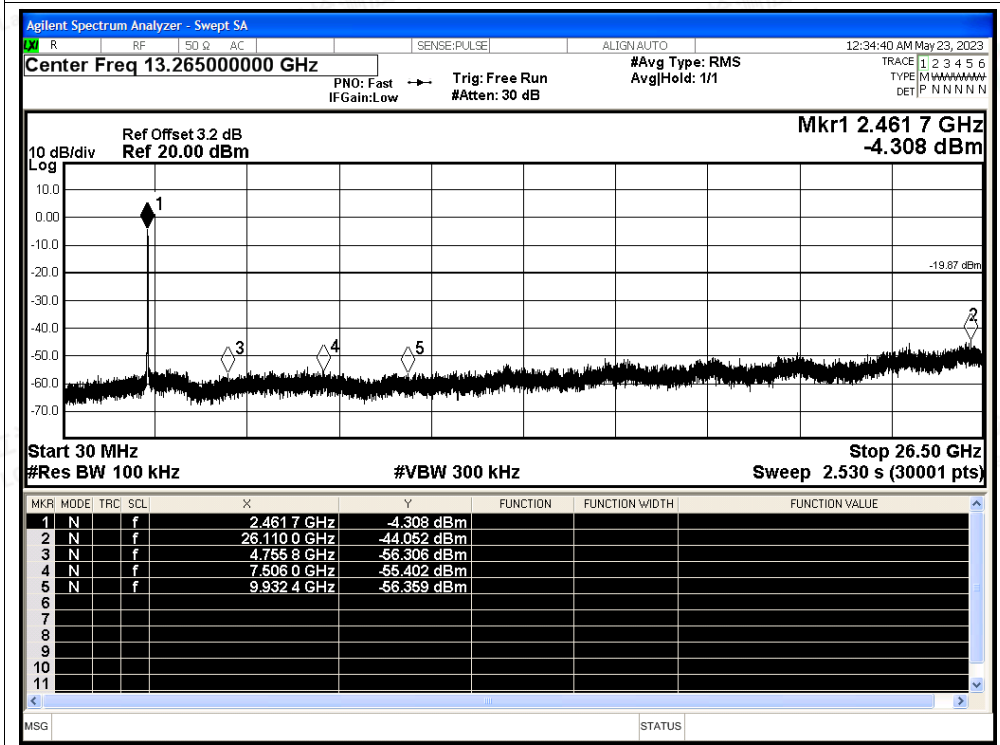
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT n20 2462MHz Ant1 Emission



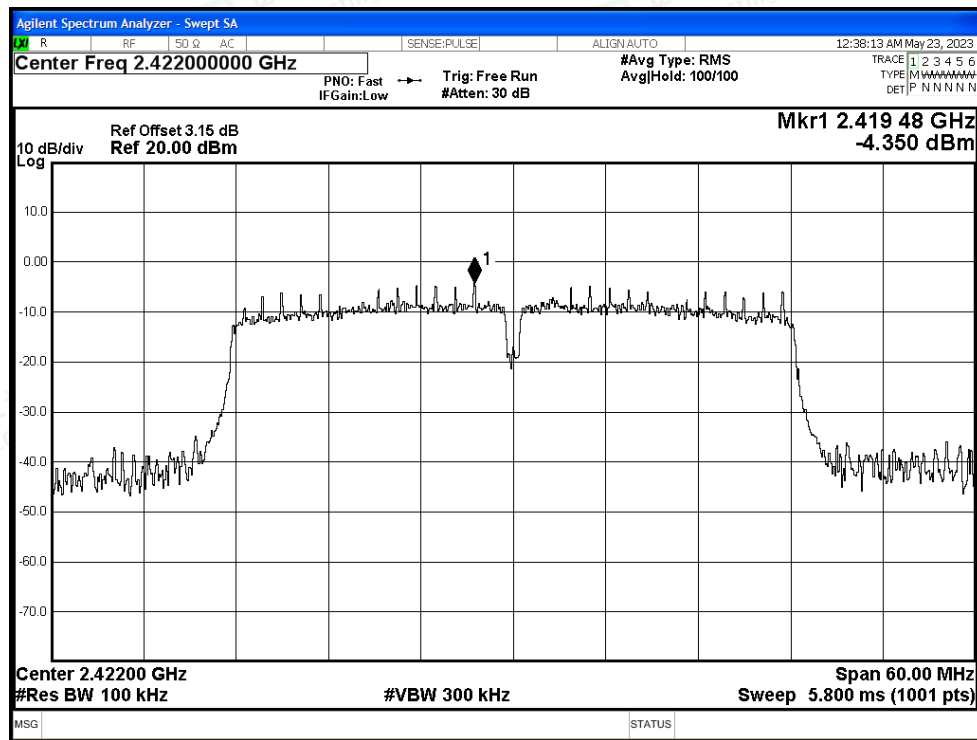
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

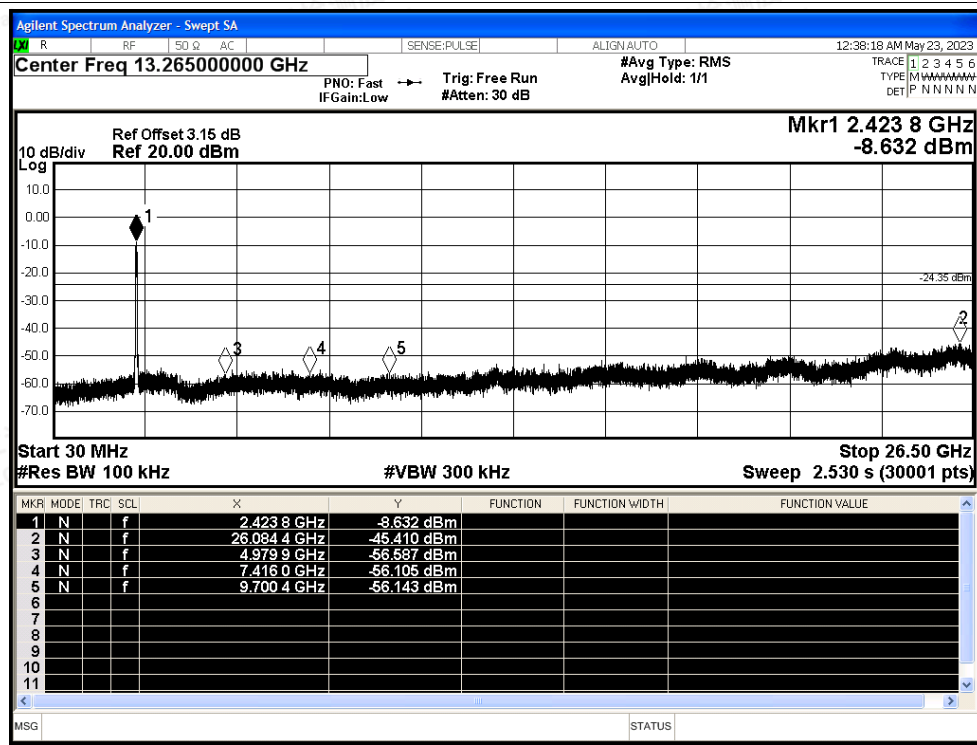
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission

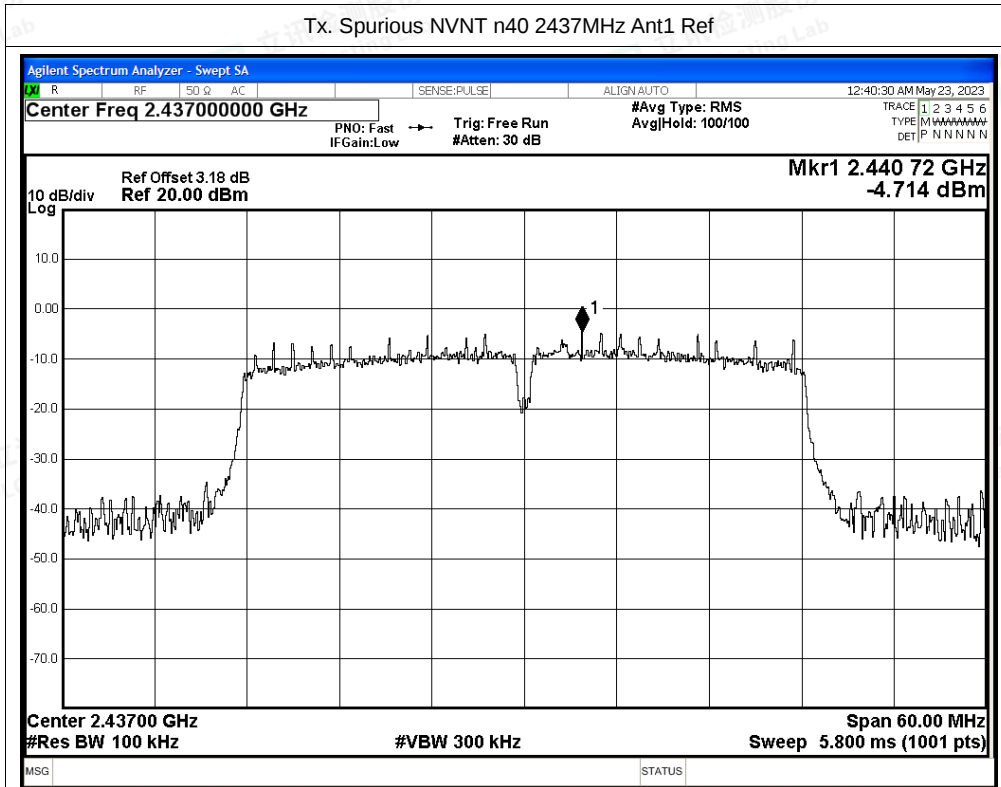


Shenzhen LCS Compliance Testing Laboratory Ltd.

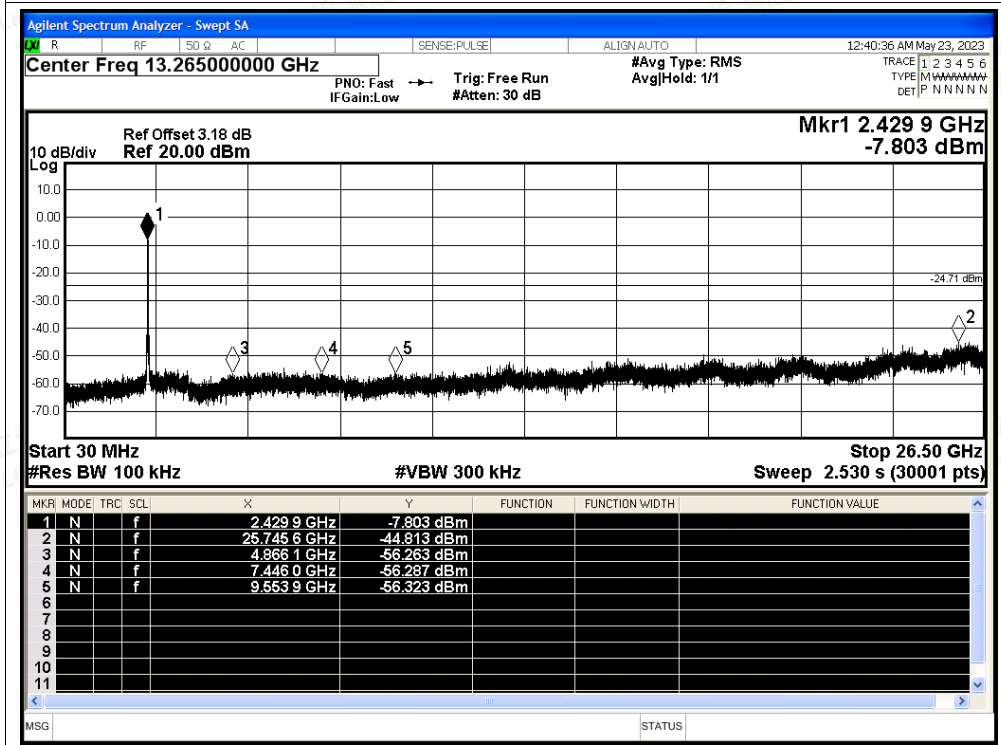
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2437MHz Ant1 Emission

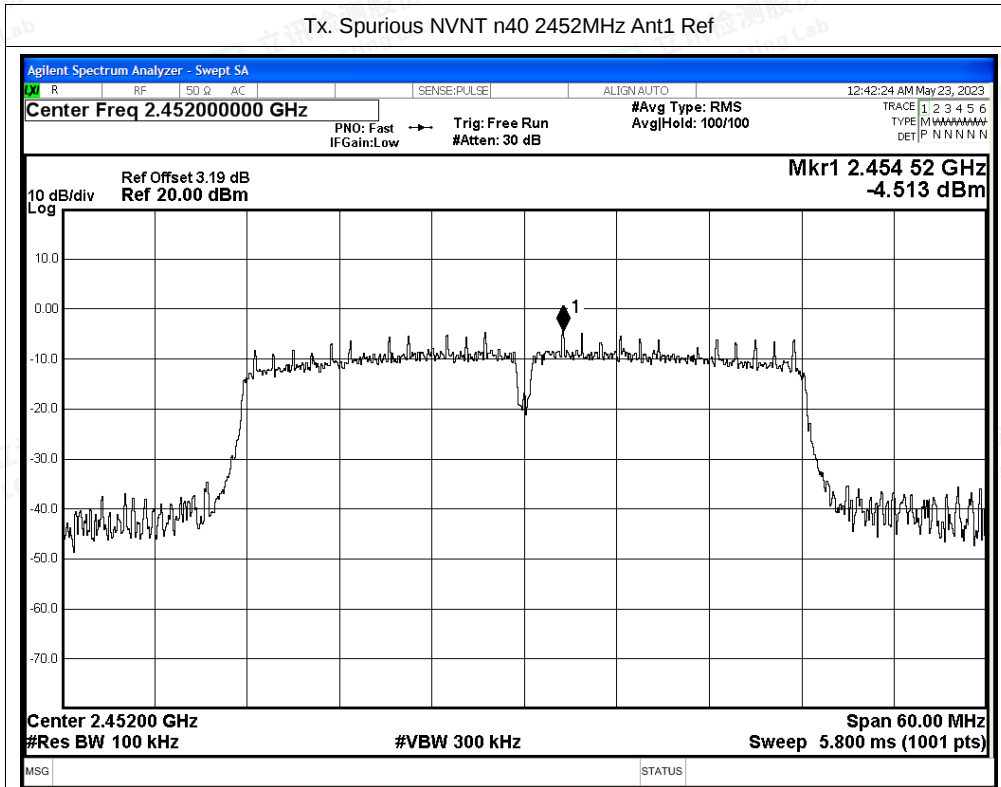


Shenzhen LCS Compliance Testing Laboratory Ltd.

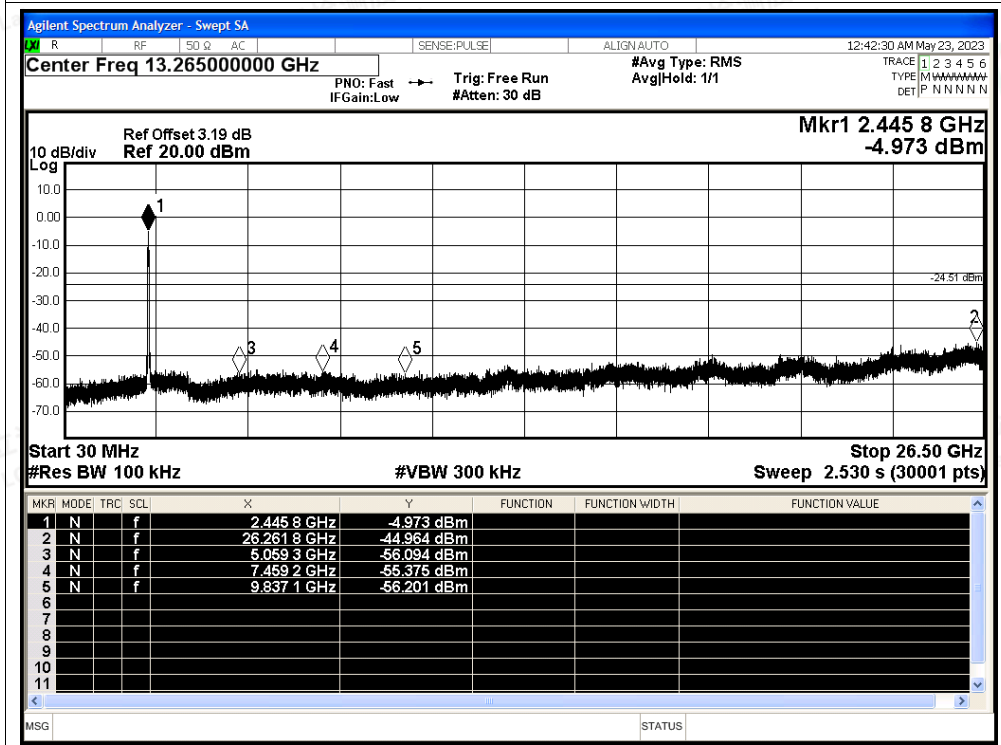
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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B.7 Duty Cycle

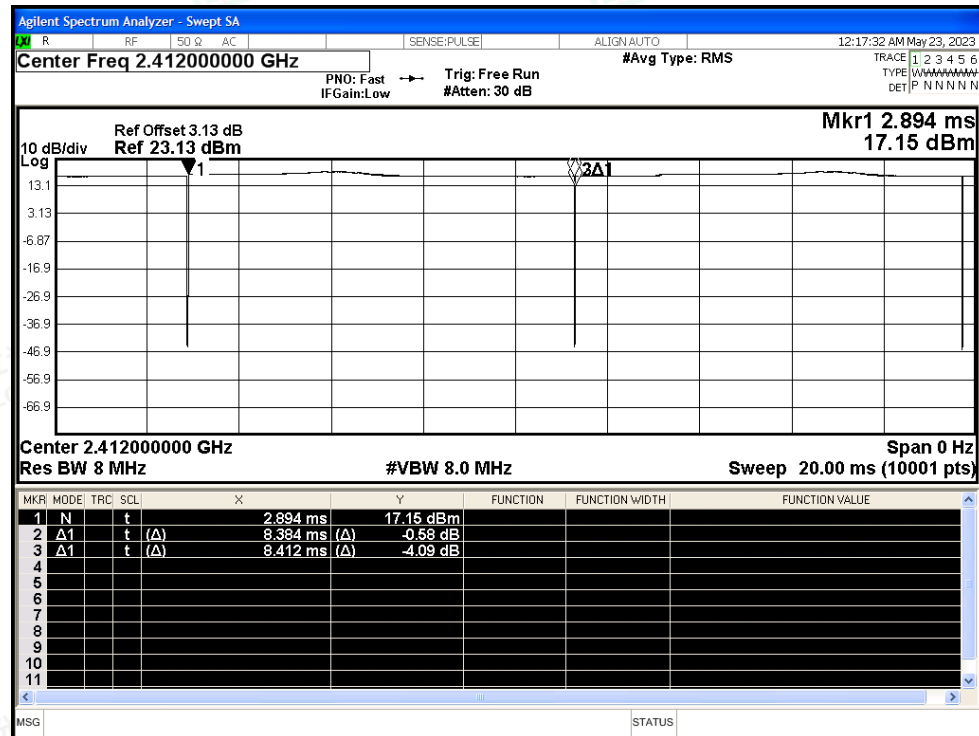
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.67	0	0.12
NVNT	b	2437	Ant1	99.67	0	0.12
NVNT	b	2462	Ant1	99.69	0	0.12
NVNT	g	2412	Ant1	97.76	0.1	0.72
NVNT	g	2437	Ant1	97.62	0.1	0.72
NVNT	g	2462	Ant1	97.76	0.1	0.72
NVNT	n20	2412	Ant1	97.6	0.11	0.77
NVNT	n20	2437	Ant1	97.46	0.11	0.77
NVNT	n20	2462	Ant1	97.6	0.11	0.77
NVNT	n40	2422	Ant1	95.31	0.21	1.54
NVNT	n40	2437	Ant1	95.31	0.21	1.54
NVNT	n40	2452	Ant1	95.31	0.21	1.54



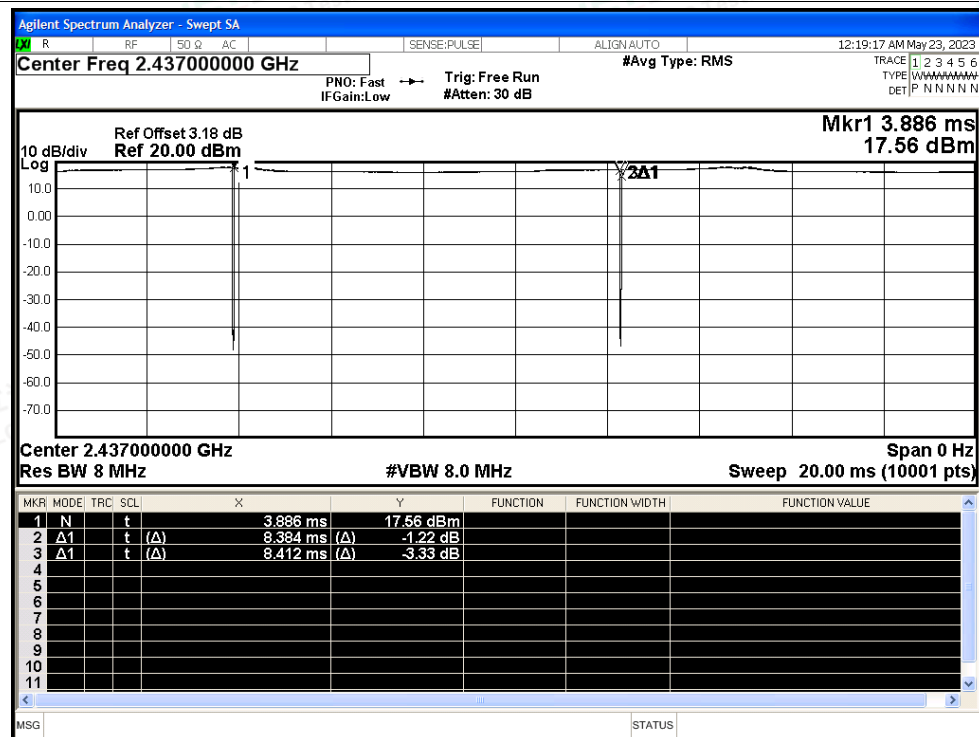


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

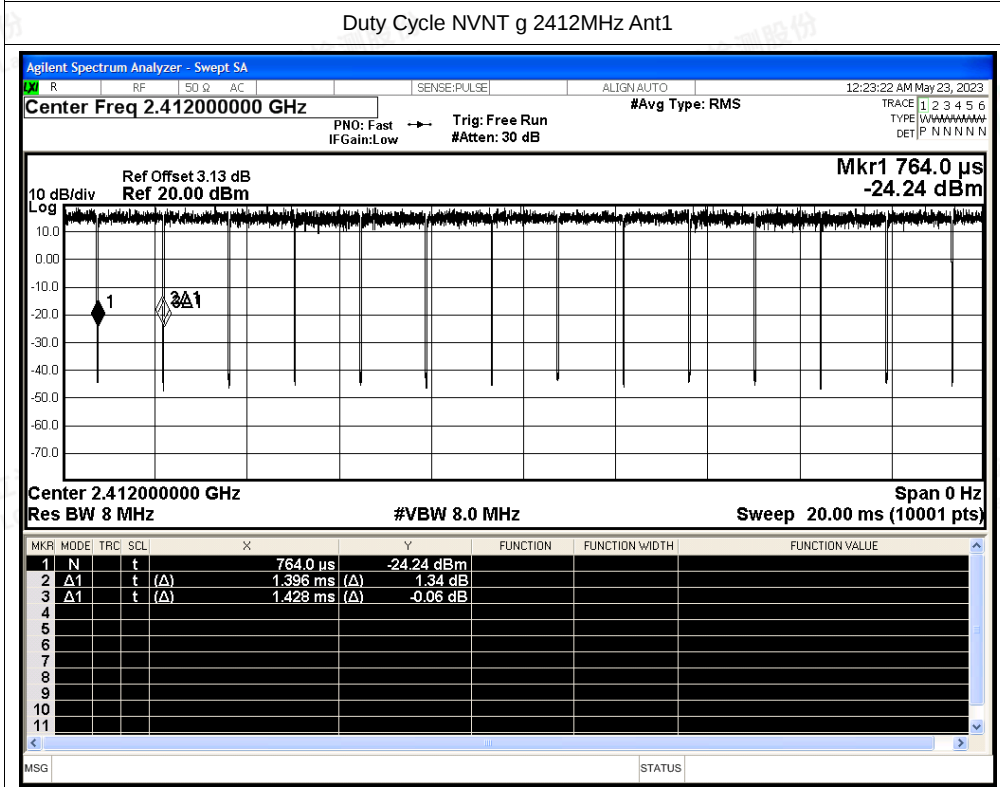
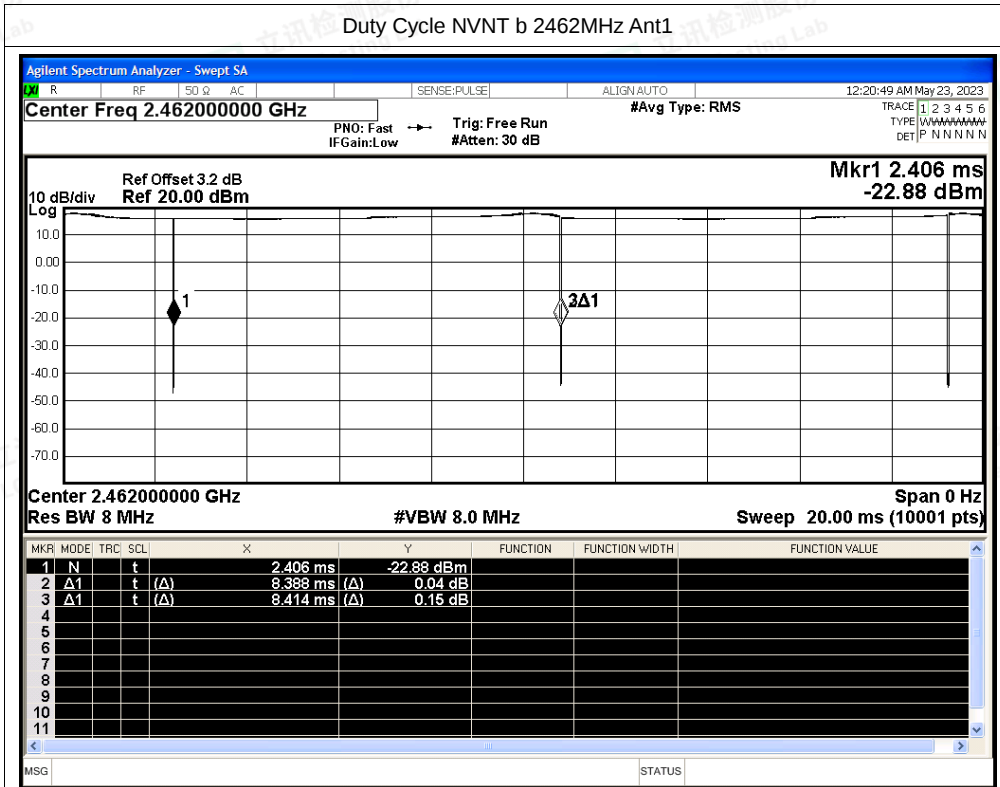


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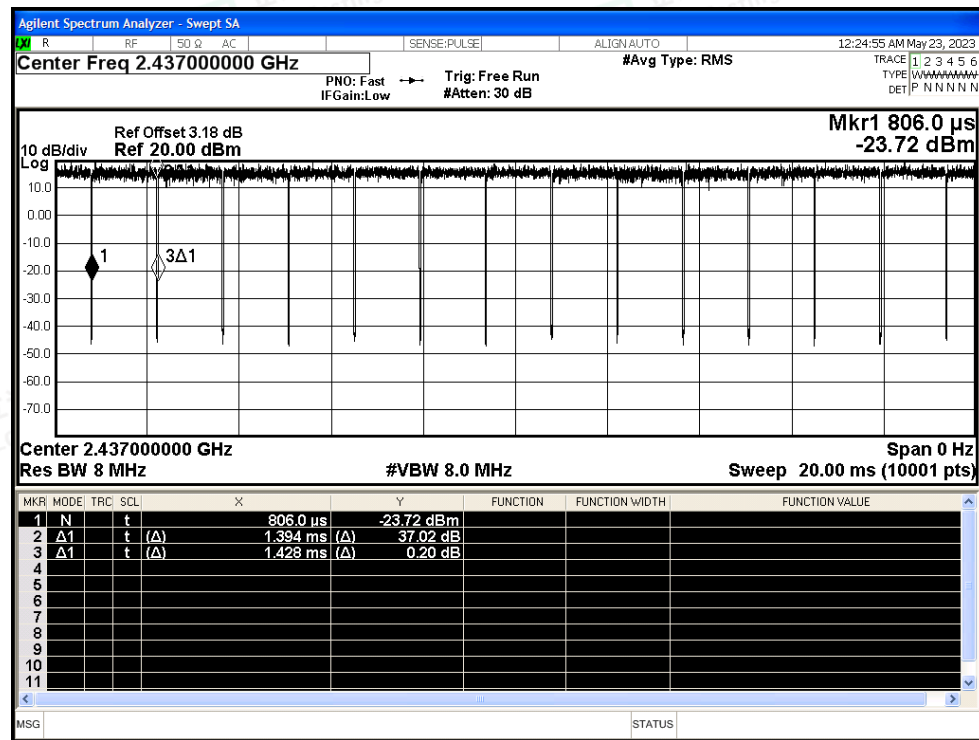
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

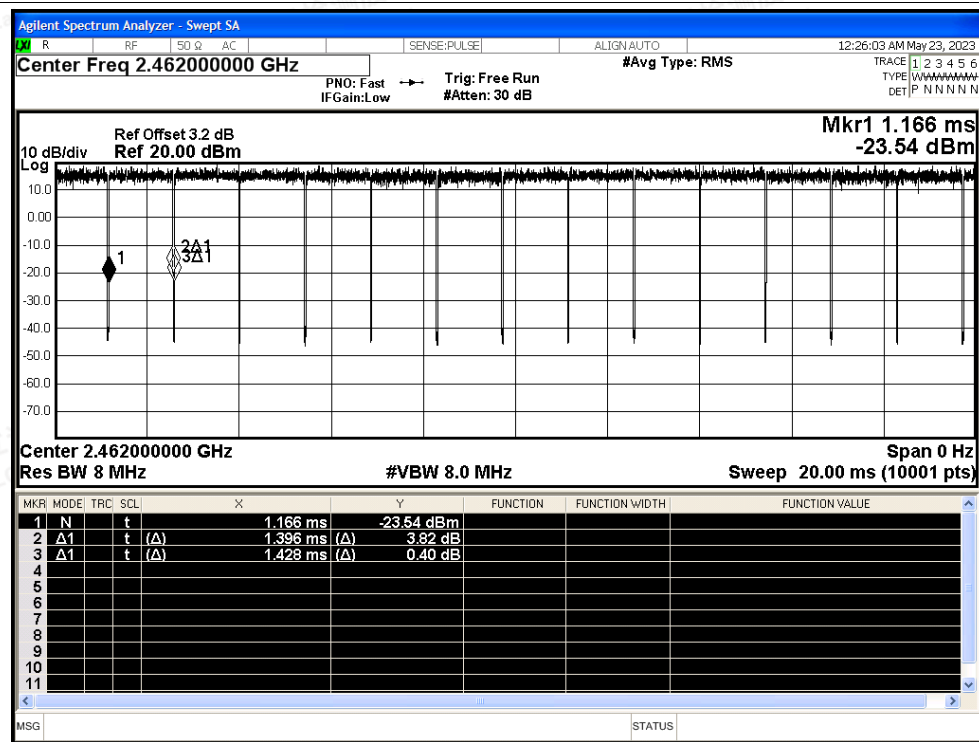
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

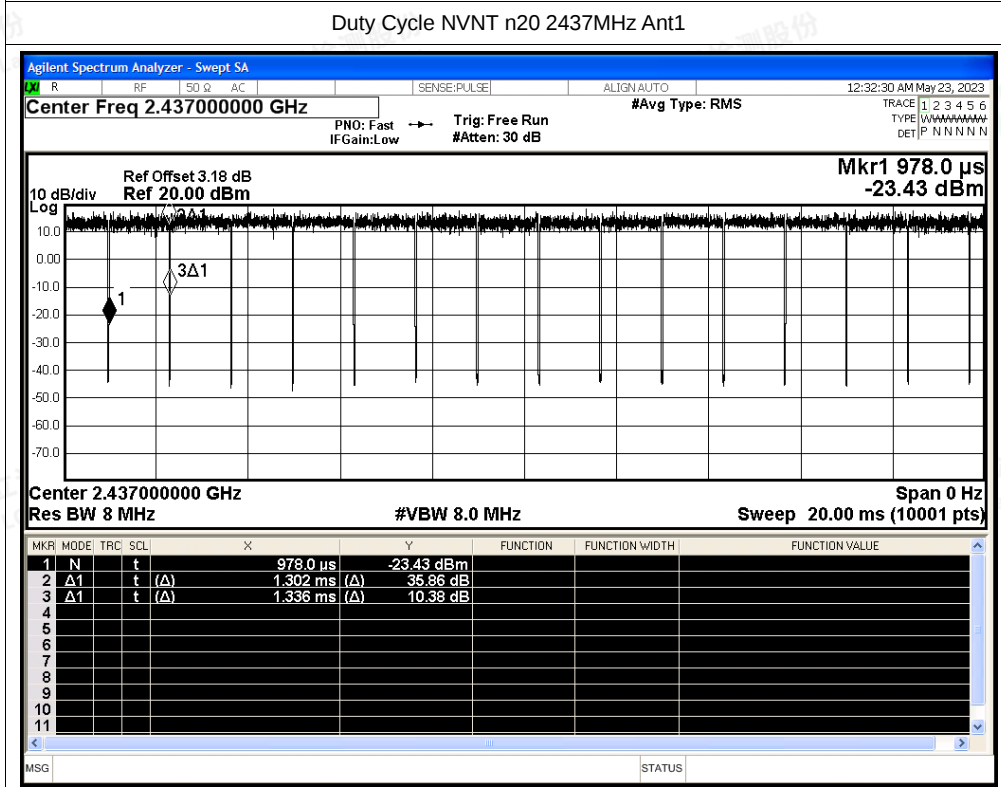
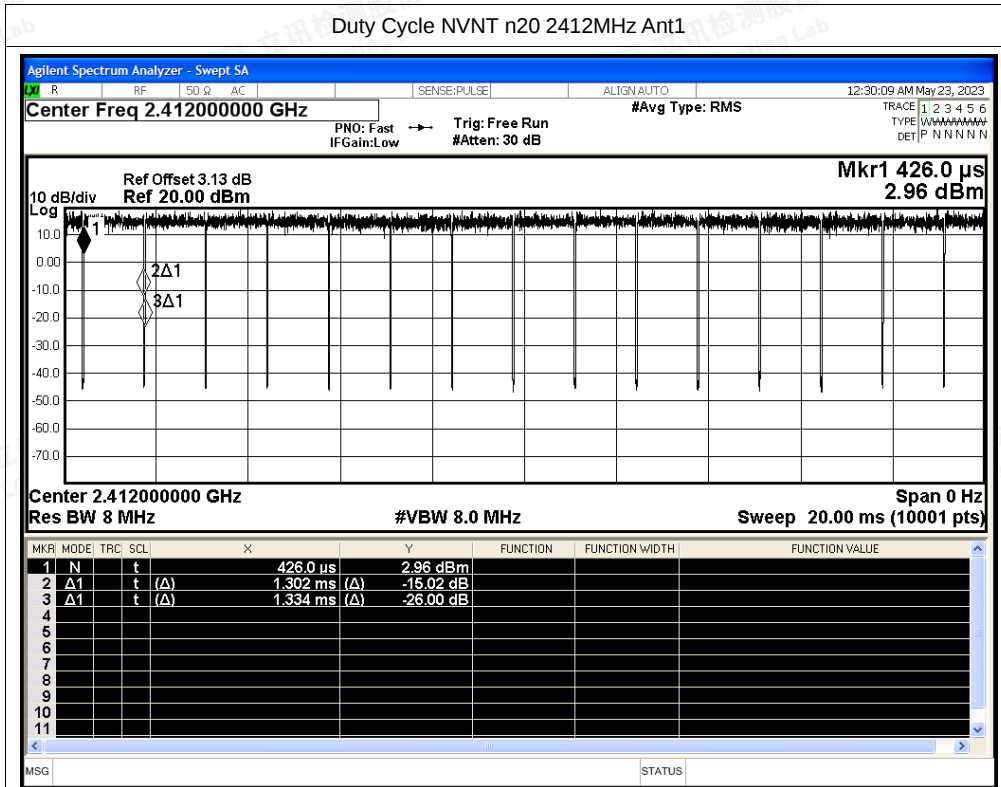


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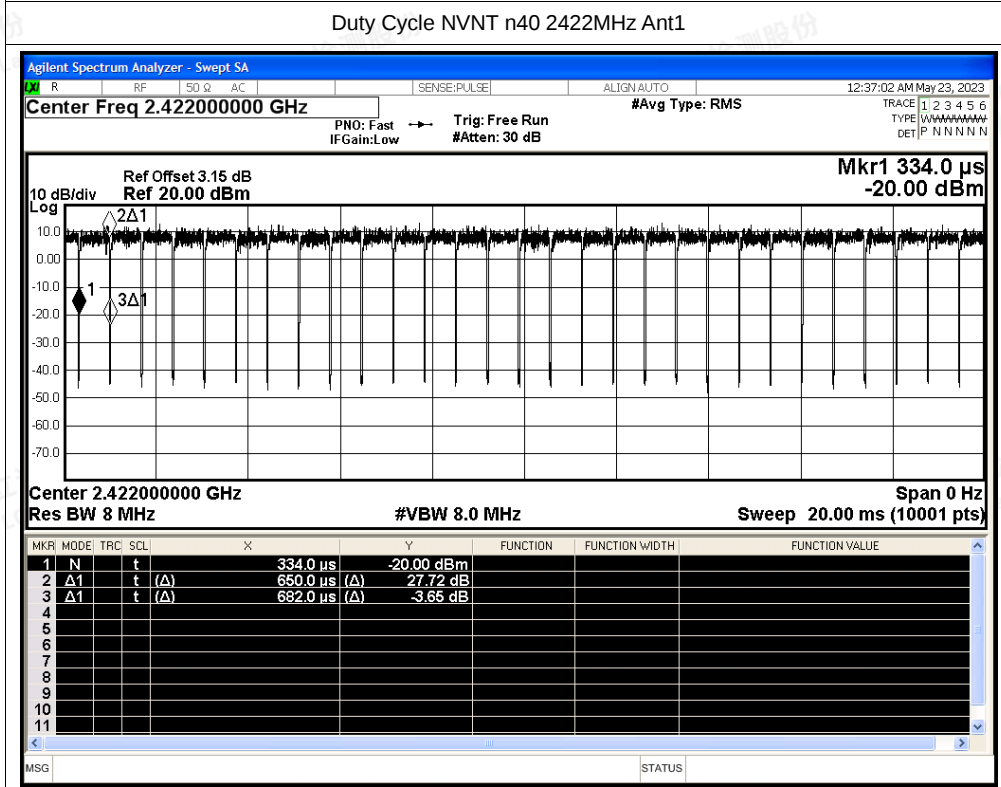
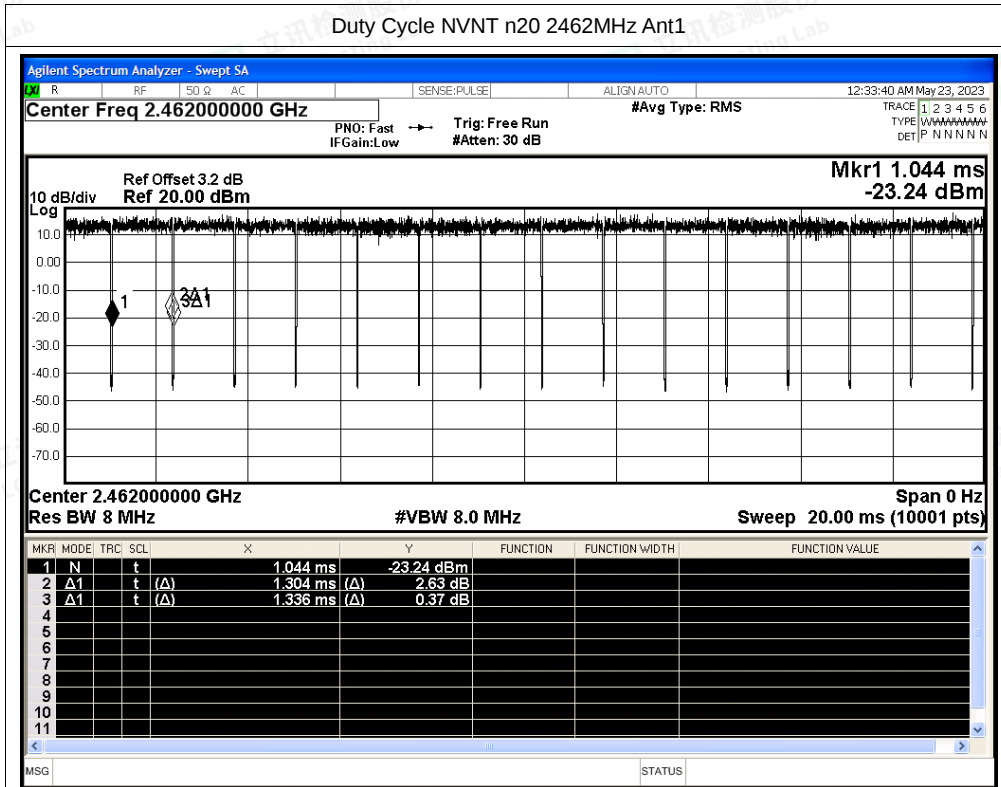


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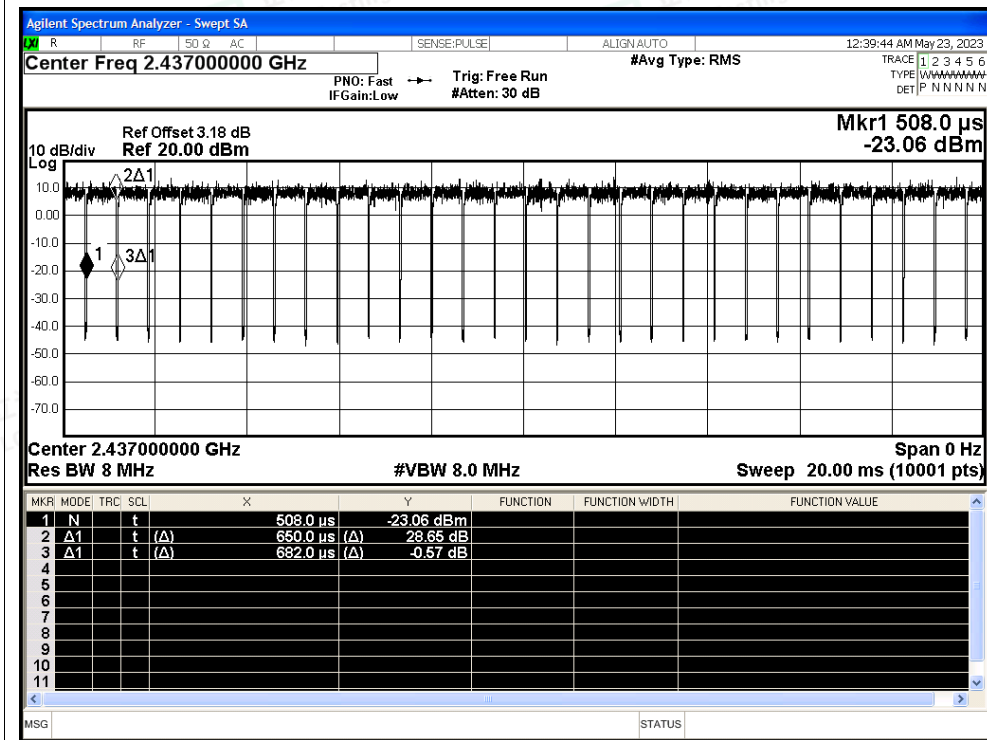
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

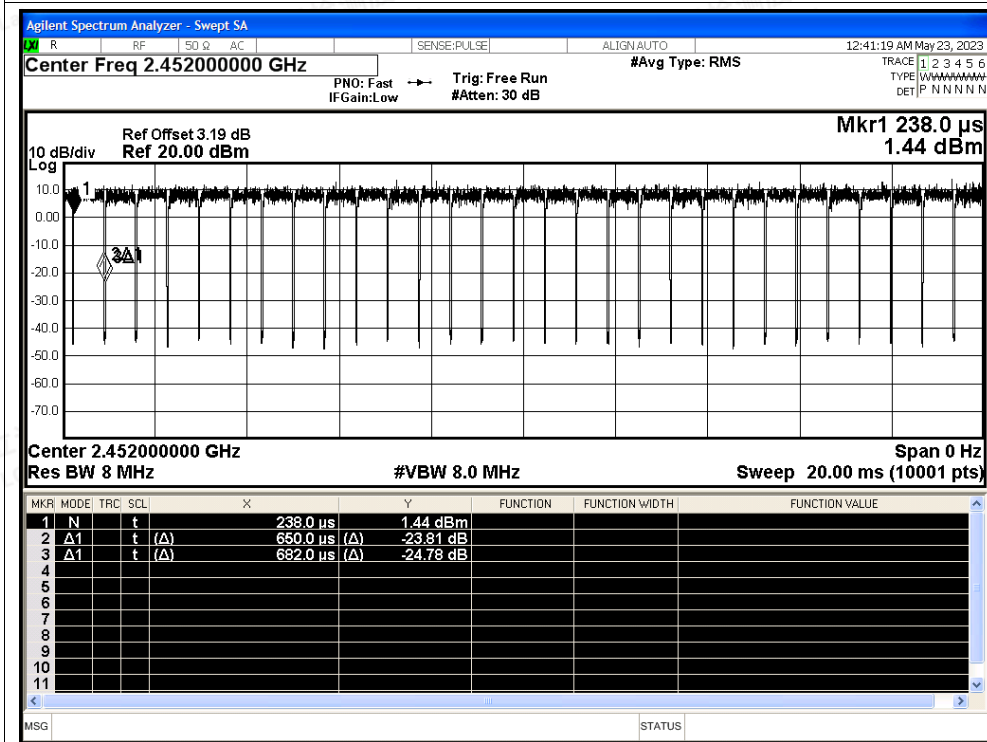
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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B.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-49.57	2	47.69	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.98	2	40.28	Average	54	Pass
NVNT	b	2412	Ant1	2389.326	-45.65	2	51.61	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-54.32	2	42.94	Average	54	Pass
NVNT	b	2412	Ant1	2390	-47.28	2	49.98	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-54.09	2	43.17	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-46.98	2	50.28	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.3	2	42.96	Average	54	Pass
NVNT	b	2462	Ant1	2486.962	-44.75	2	52.51	Peak	74	Pass
NVNT	b	2462	Ant1	2487.068	-54.18	2	43.08	Average	54	Pass
NVNT	b	2462	Ant1	2500	-48.15	2	49.11	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-55.71	2	41.55	Average	54	Pass
NVNT	g	2412	Ant1	2310	-48.78	2	48.48	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.84	2	41.42	Average	54	Pass
NVNT	g	2412	Ant1	2389.794	-34.8	2	62.46	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-44.98	2	52.28	Average	54	Pass
NVNT	g	2412	Ant1	2390	-34.6	2	62.66	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-44.77	2	52.49	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-41.21	2	56.05	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-49.15	2	48.11	Average	54	Pass
NVNT	g	2462	Ant1	2483.782	-36.7	2	60.56	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-49.15	2	48.11	Average	54	Pass
NVNT	g	2462	Ant1	2500	-46.45	2	50.81	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.84	2	43.42	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.6	2	47.66	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-56.52	2	40.74	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-35.37	2	61.89	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.56	-50.17	2	47.09	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-41.3	2	55.96	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-50.51	2	46.75	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-40.9	2	56.36	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-51.36	2	45.9	Average	54	Pass
NVNT	n20	2462	Ant1	2483.835	-37.75	2	59.51	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.782	-51.04	2	46.22	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-46.85	2	50.41	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-54.17	2	43.09	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-48.04	2	49.22	Peak	74	Pass



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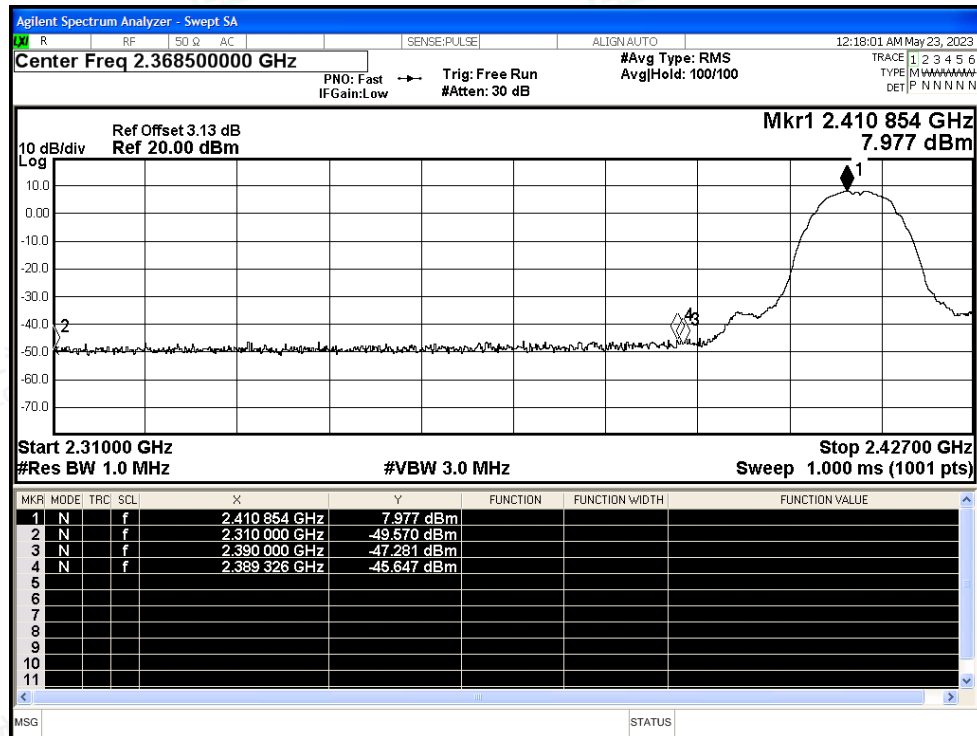
NVNT	n40	2422	Ant1	2310	-56.57	2	40.69	Average	54	Pass
NVNT	n40	2422	Ant1	2388.384	-30.79	2	66.47	Peak	74	Pass
NVNT	n40	2422	Ant1	2388.526	-47.59	2	49.67	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-41.88	2	55.38	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-47.85	2	49.41	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-35.61	2	61.65	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-51.51	2	45.75	Average	54	Pass
NVNT	n40	2452	Ant1	2484.322	-32.08	2	65.18	Peak	74	Pass
NVNT	n40	2452	Ant1	2484.322	-49.05	2	48.21	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-47.05	2	50.21	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-54.21	2	43.05	Average	54	Pass



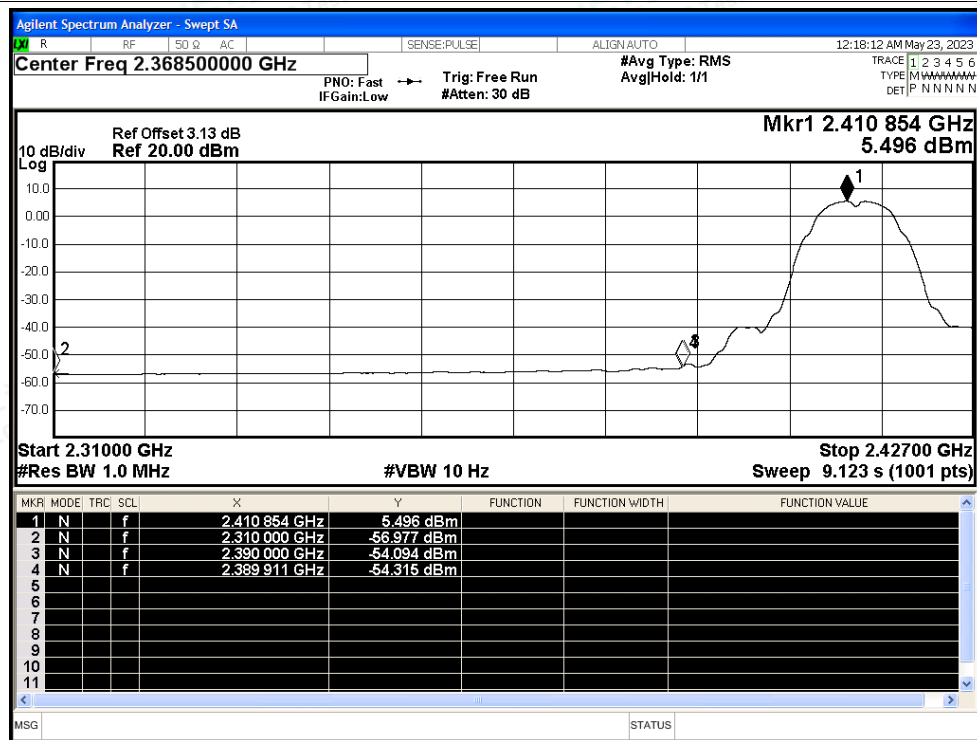
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Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

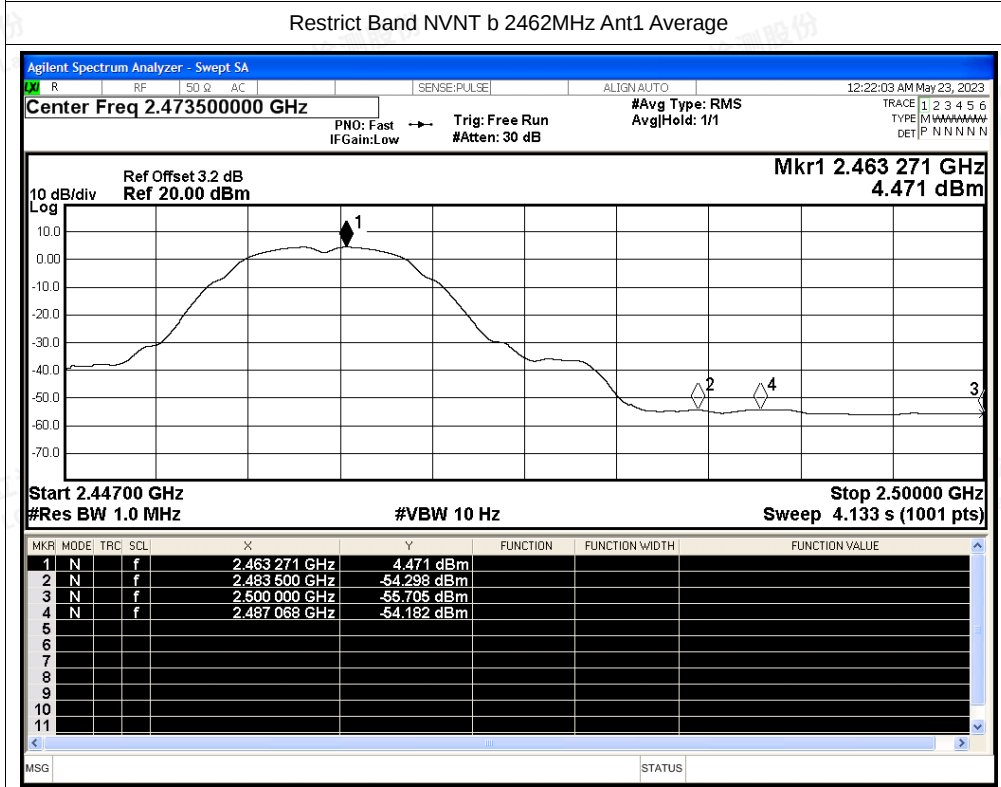
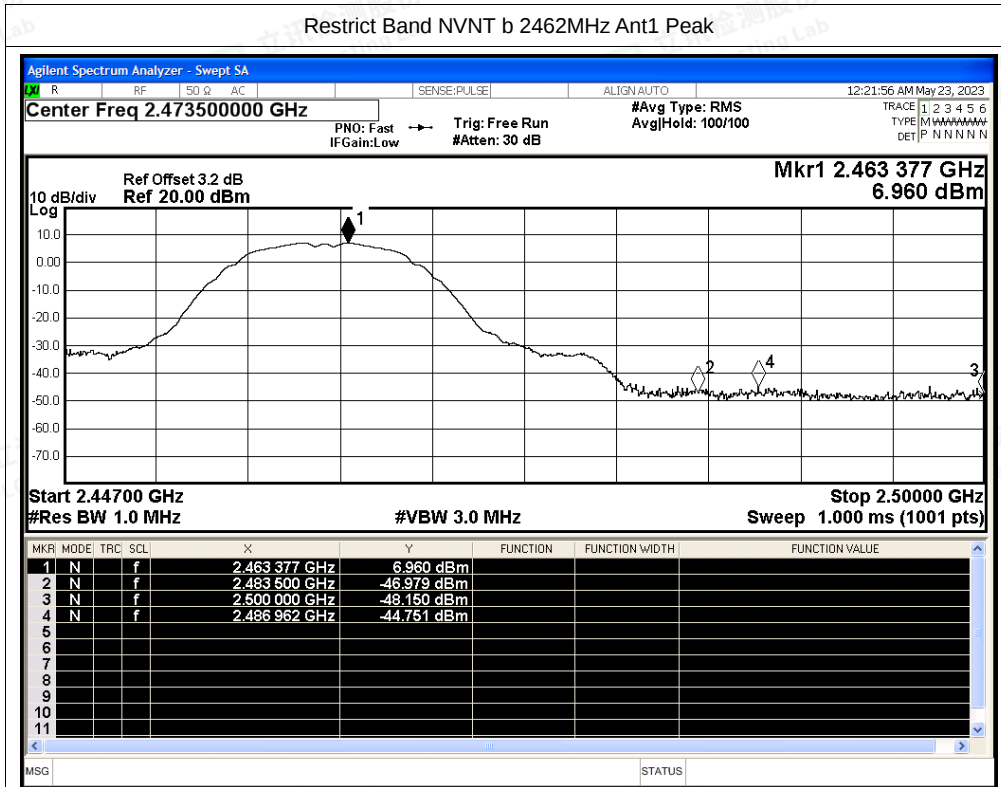


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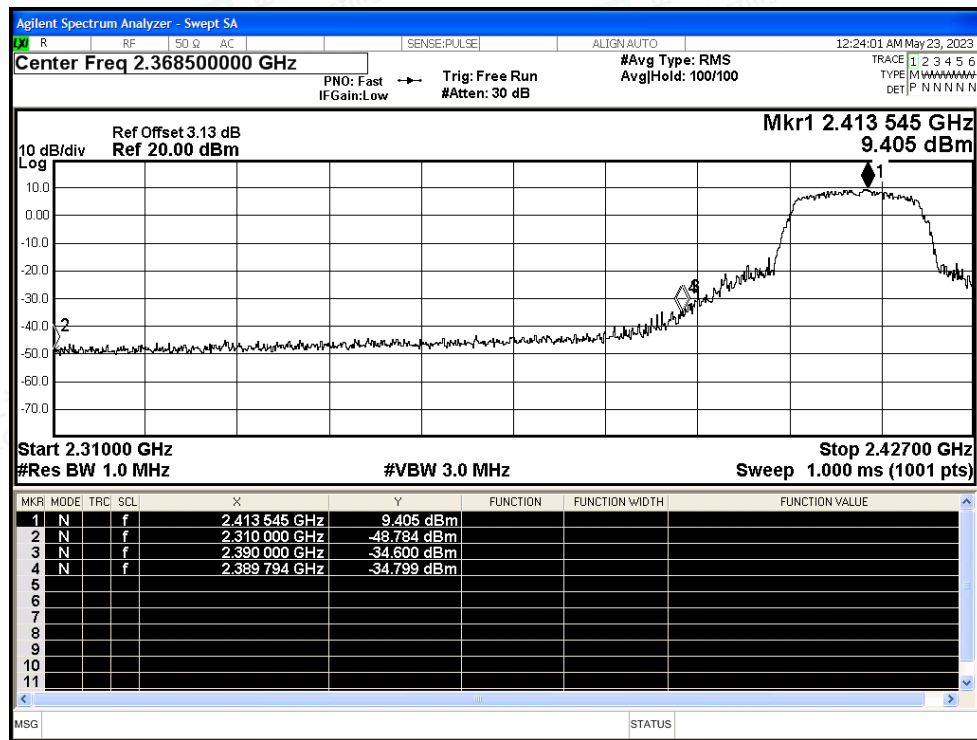
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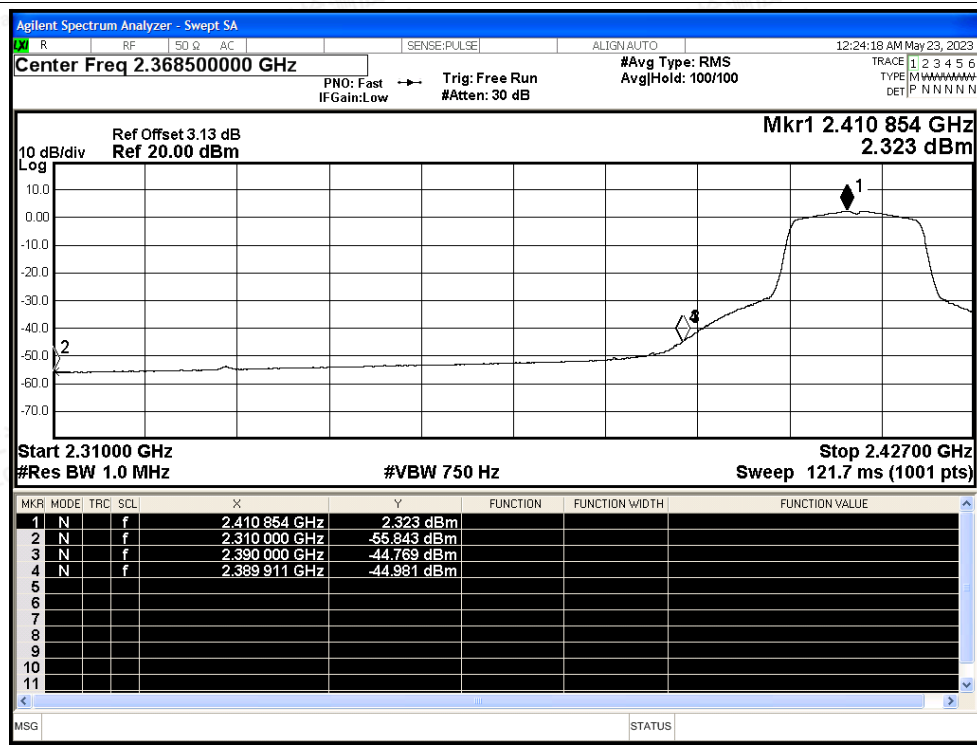
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



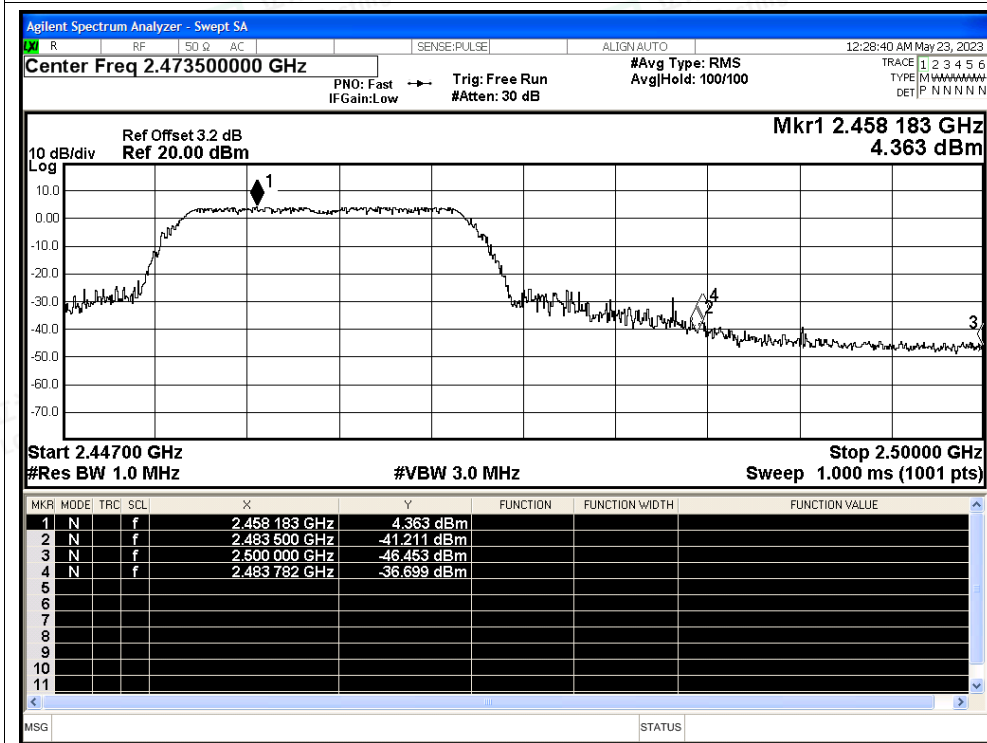
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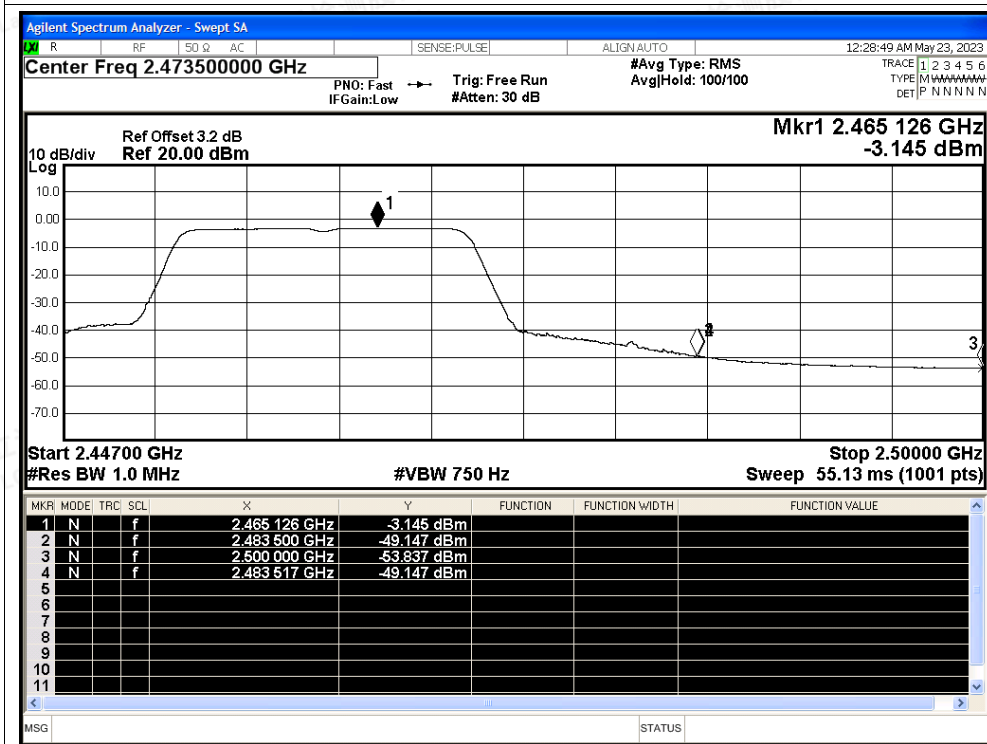
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

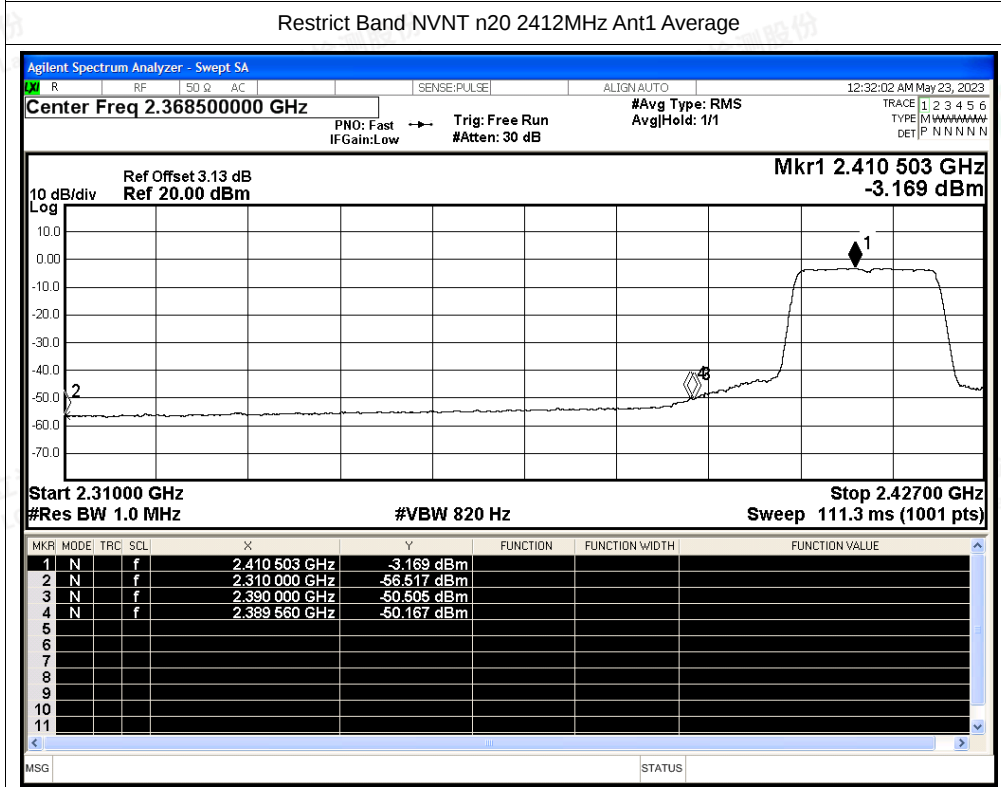
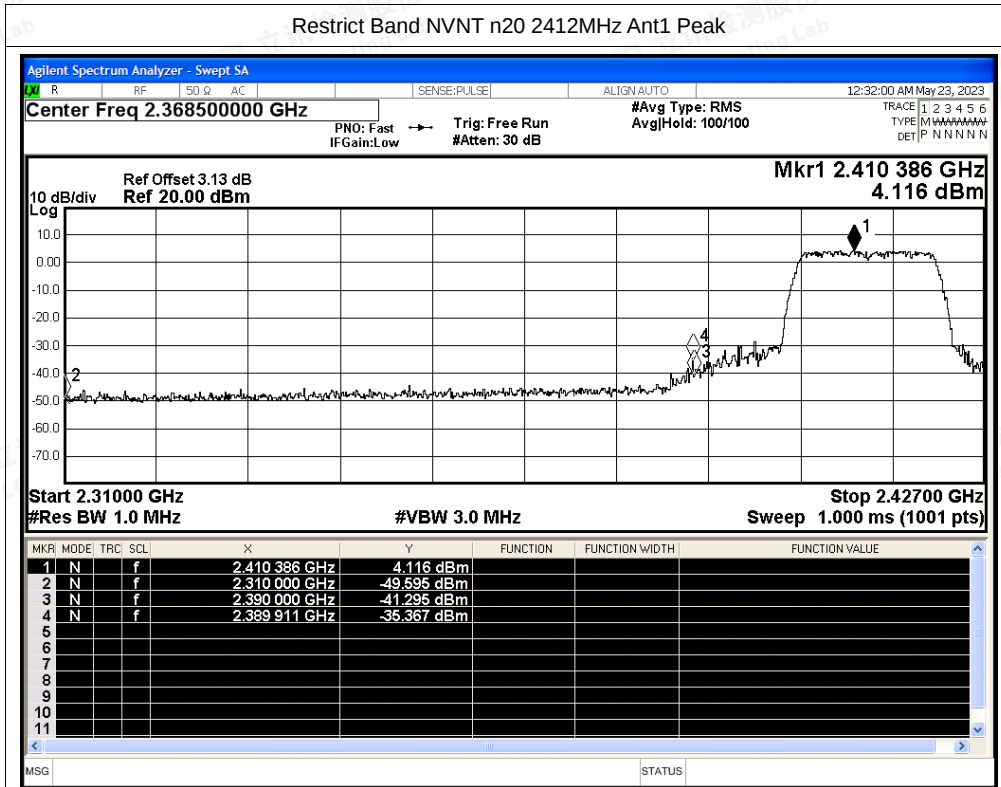


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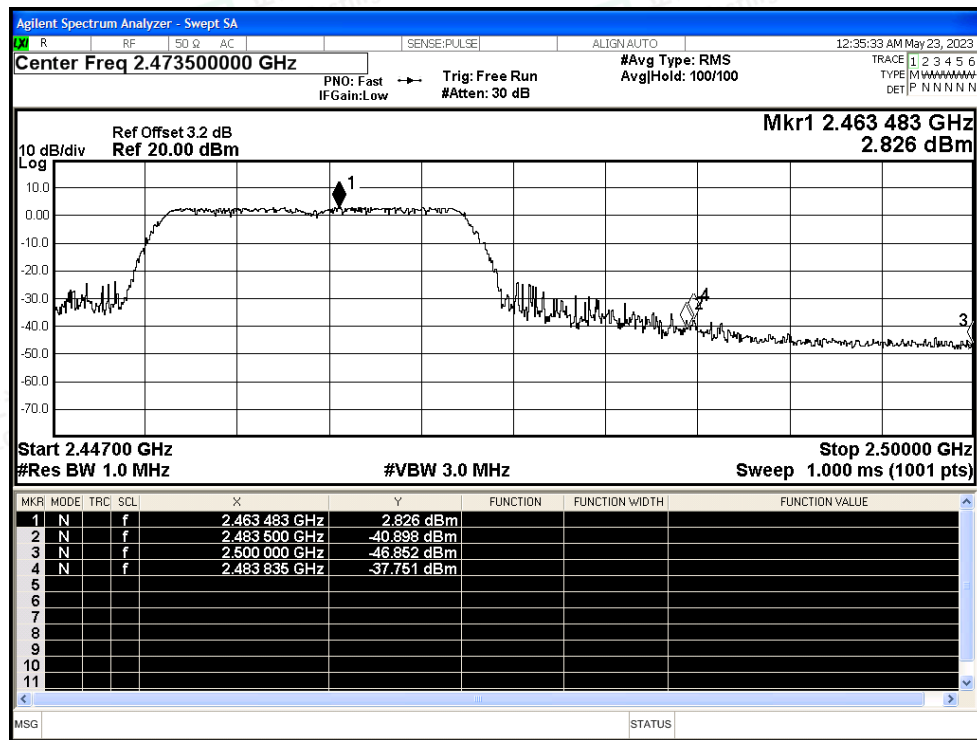
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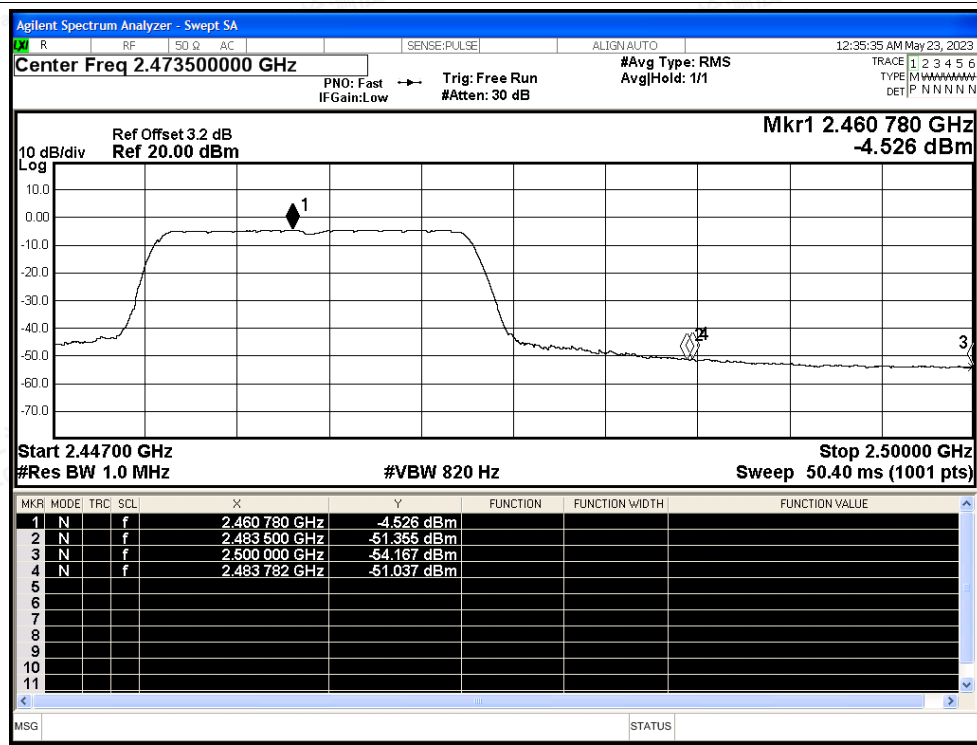
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Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average

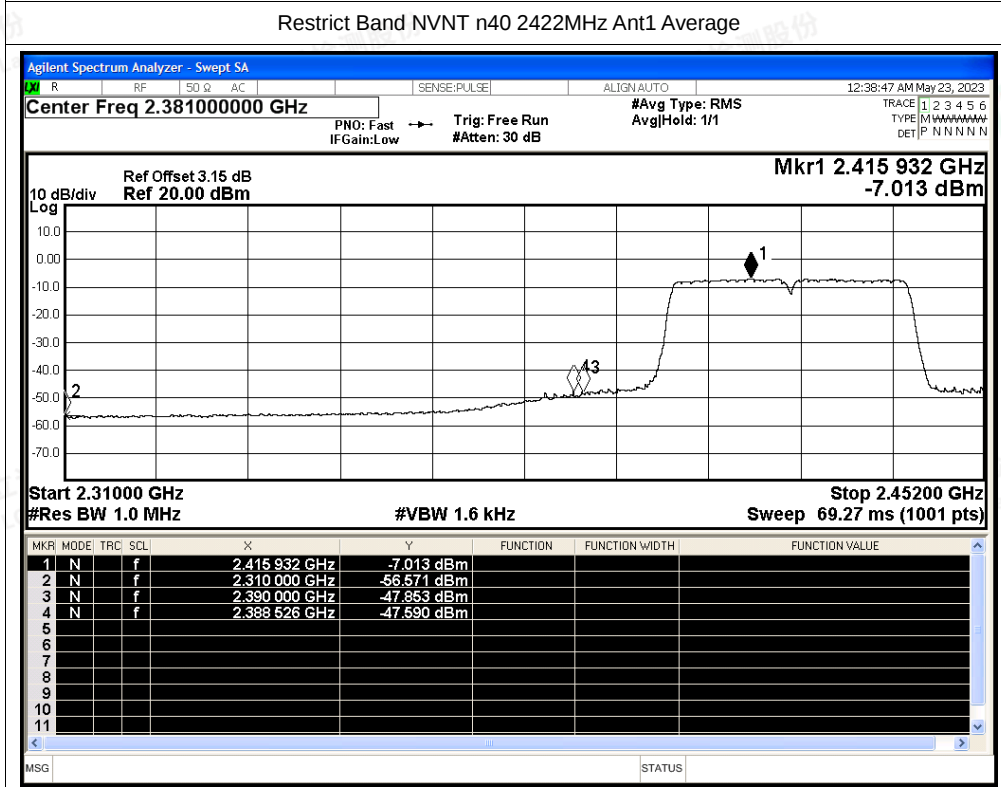
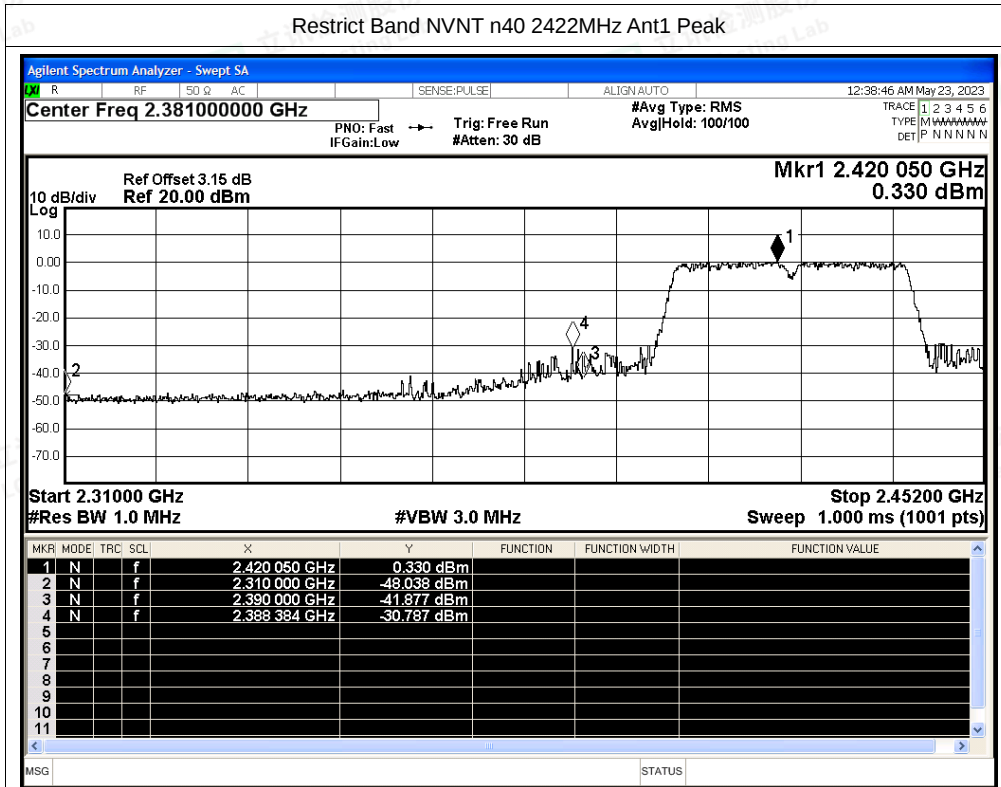


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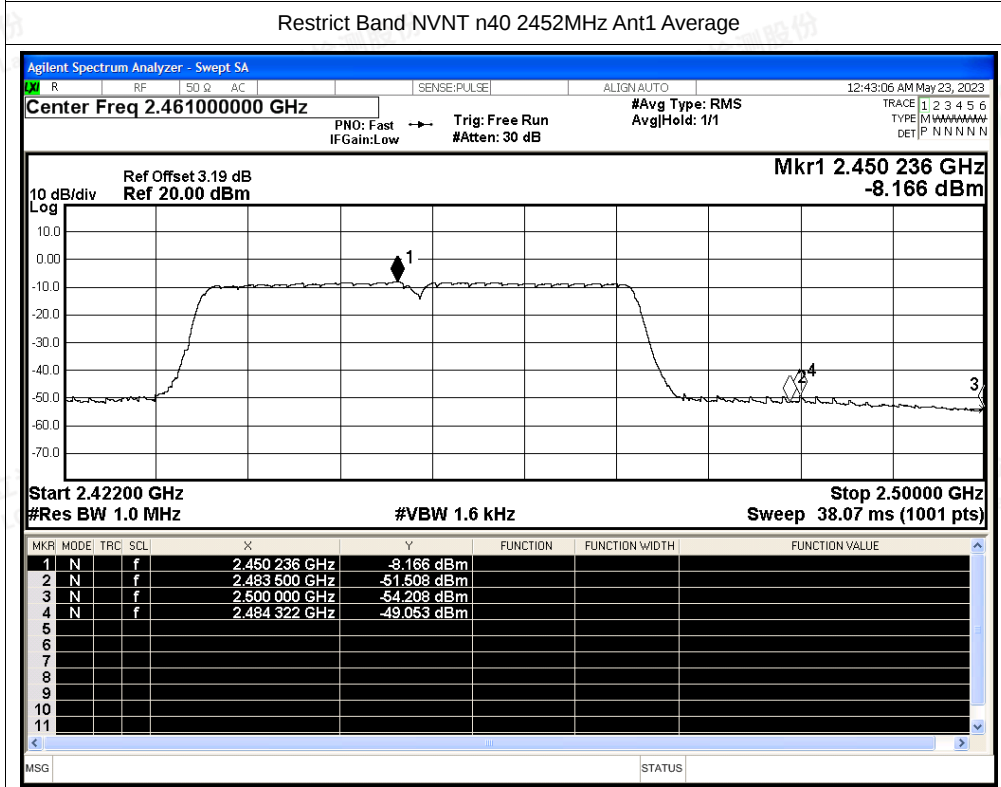
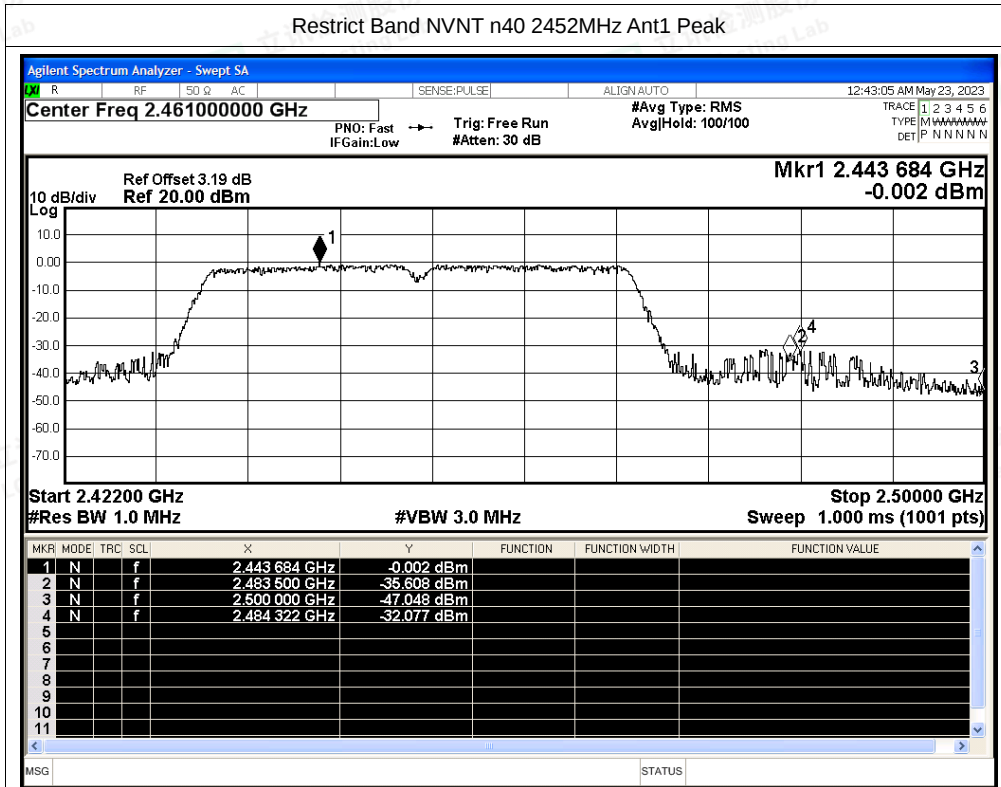


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