



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Centegix Integration Gateway

Test Model: CE-INT-04

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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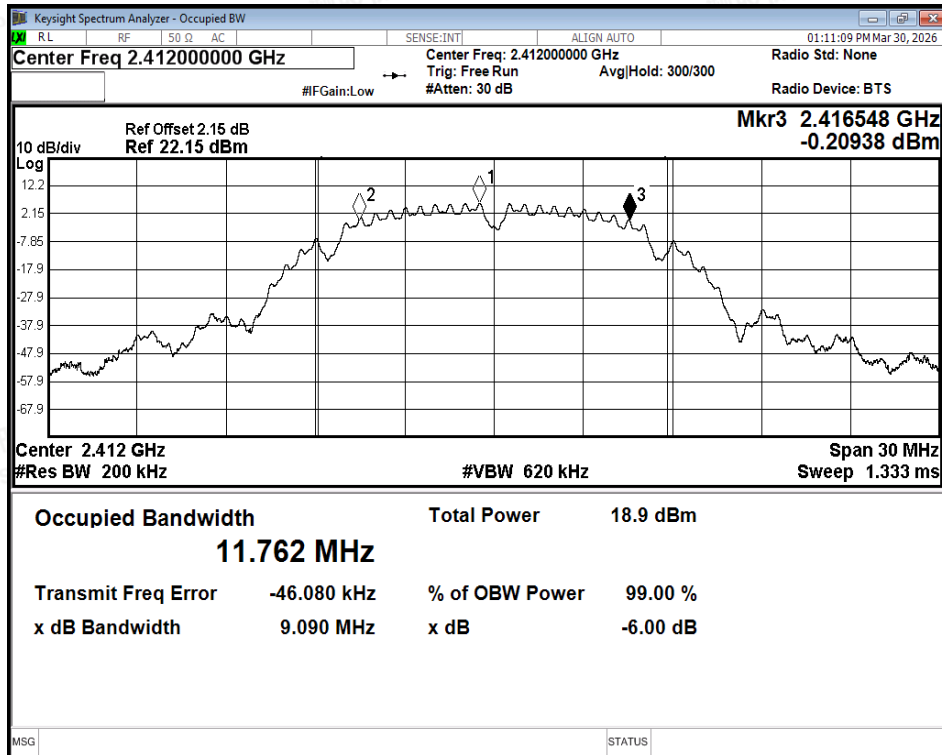


C.1 -6dB Bandwidth

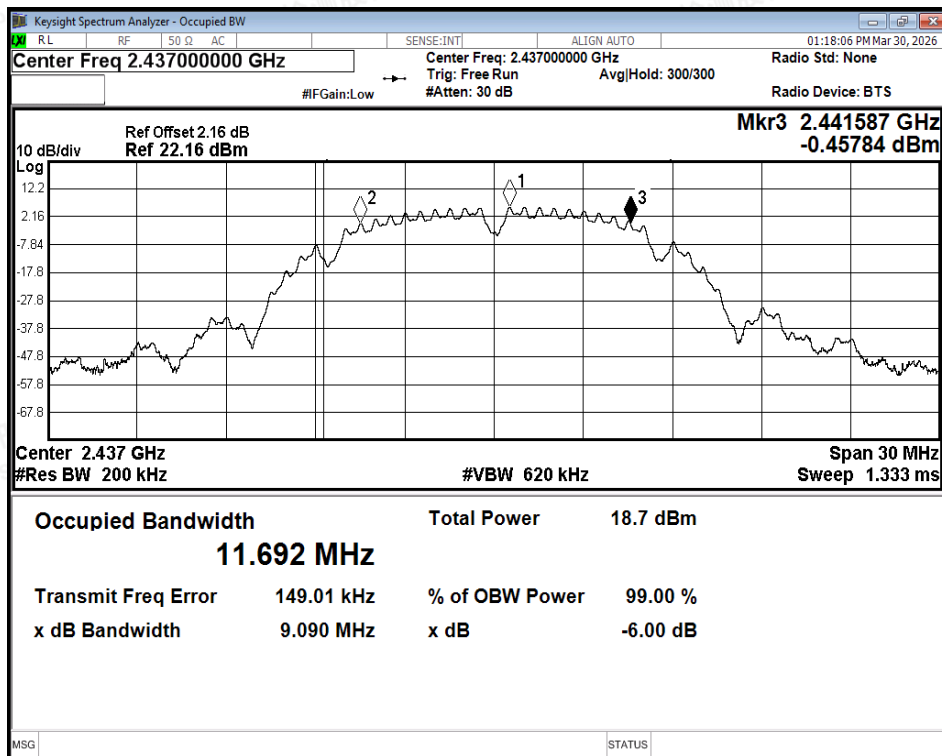
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	9.09	0.5	Pass
NVNT	b	2437	Ant2	9.09	0.5	Pass
NVNT	b	2462	Ant2	9.105	0.5	Pass
NVNT	g	2412	Ant2	16.28	0.5	Pass
NVNT	g	2437	Ant2	16.31	0.5	Pass
NVNT	g	2462	Ant2	16.39	0.5	Pass
NVNT	n20	2412	Ant2	17.06	0.5	Pass
NVNT	n20	2437	Ant2	17.33	0.5	Pass
NVNT	n20	2462	Ant2	17.33	0.5	Pass
NVNT	n40	2422	Ant2	36.14	0.5	Pass
NVNT	n40	2437	Ant2	35.62	0.5	Pass
NVNT	n40	2452	Ant2	36	0.5	Pass



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-6dB Bandwidth NVNT b 2412MHz Ant2



-6dB Bandwidth NVNT b 2437MHz Ant2

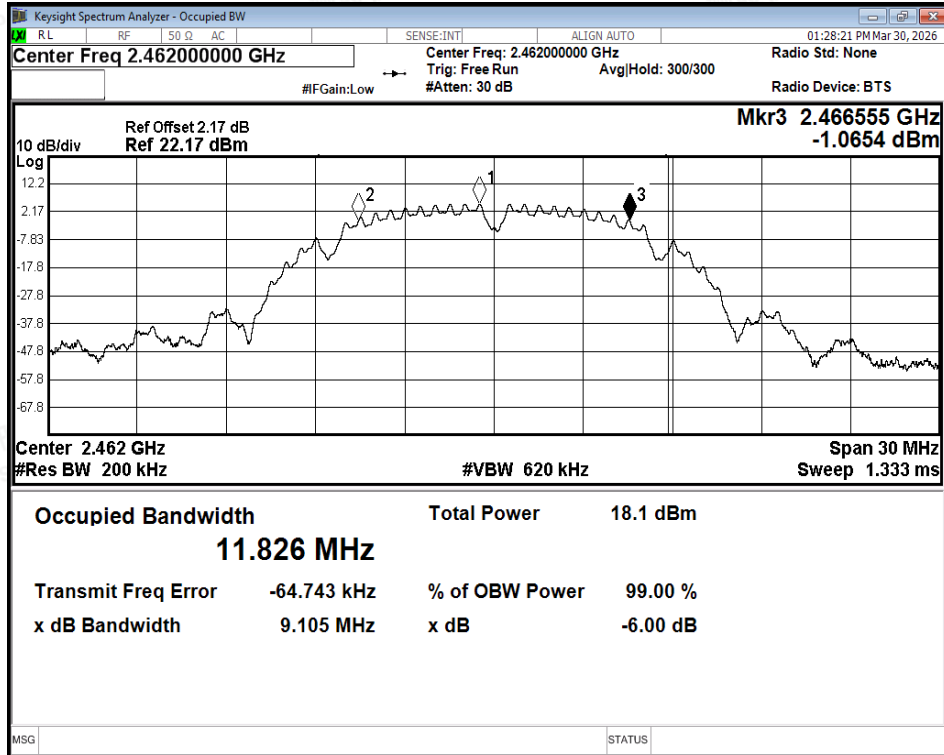


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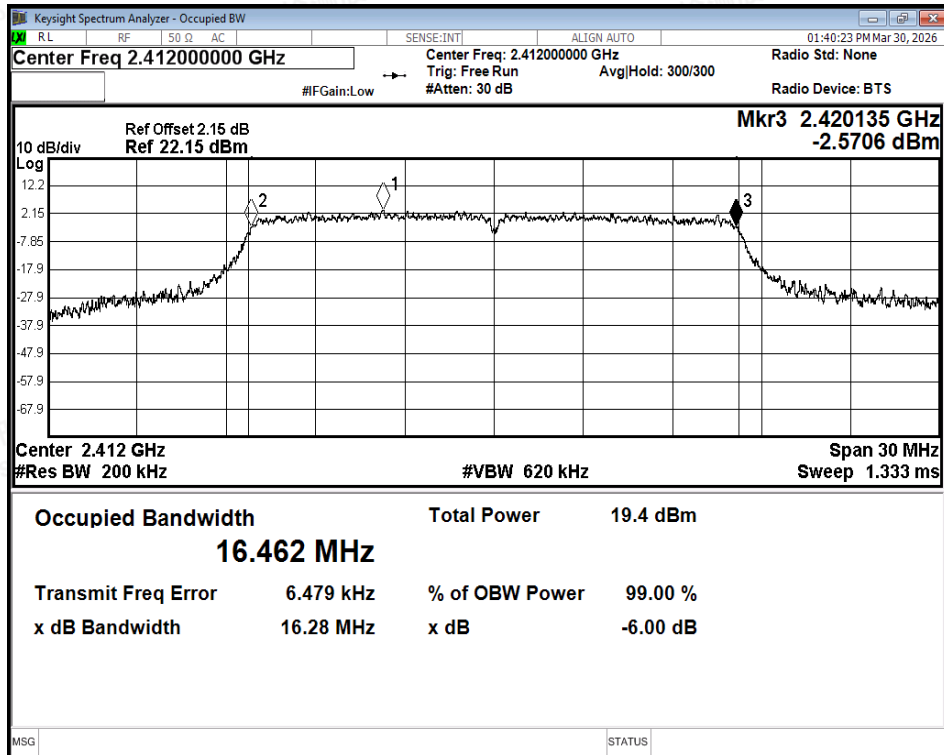
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-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant2

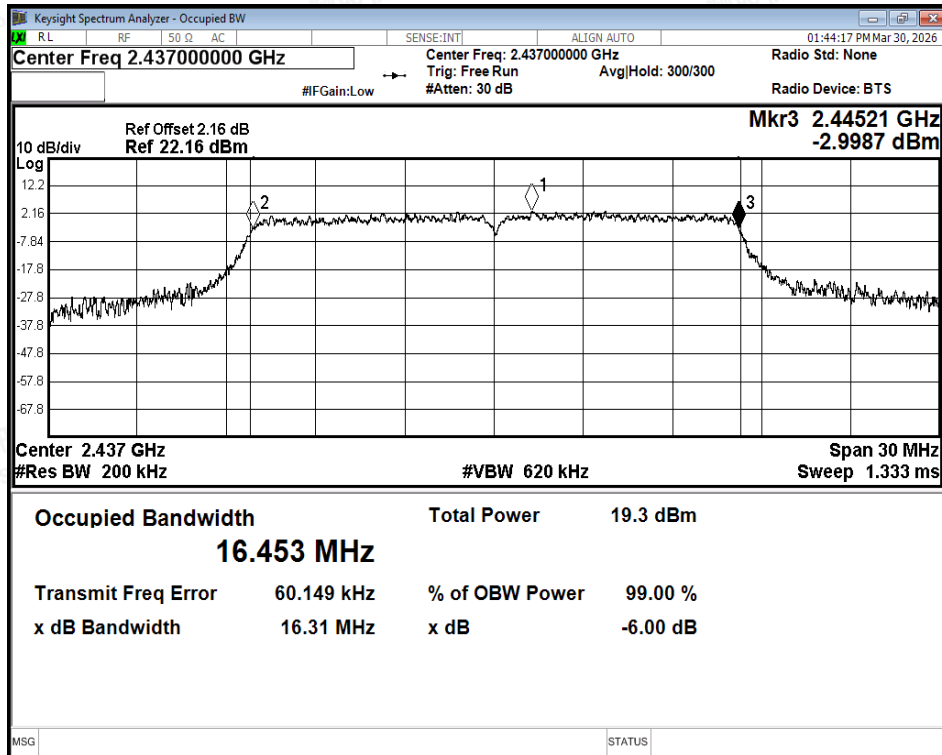


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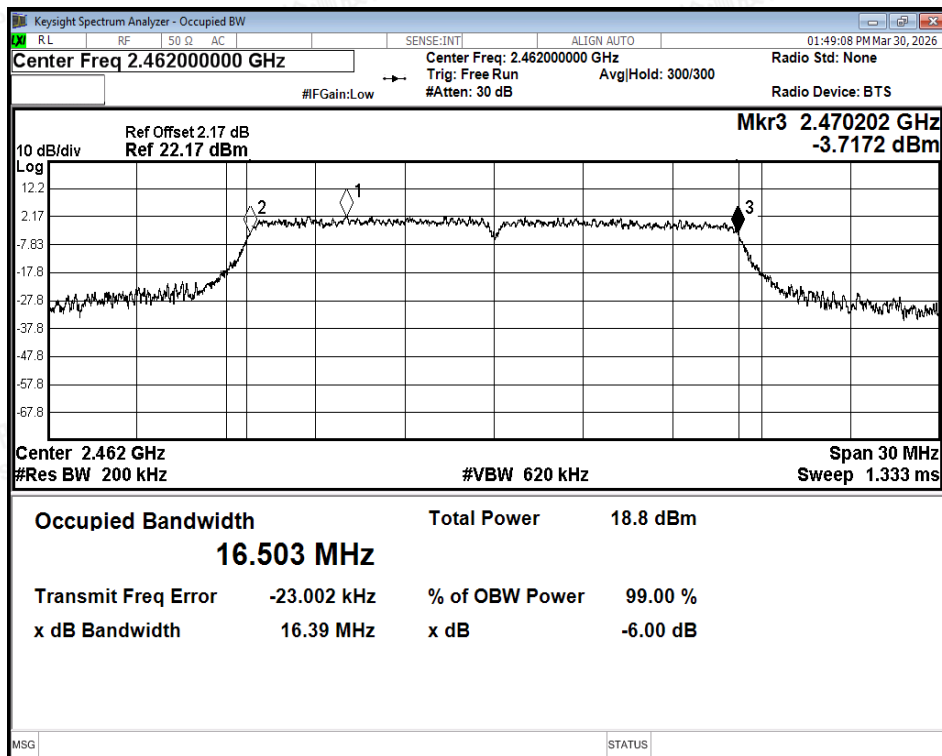
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-6dB Bandwidth NVNT g 2437MHz Ant2



-6dB Bandwidth NVNT g 2462MHz Ant2

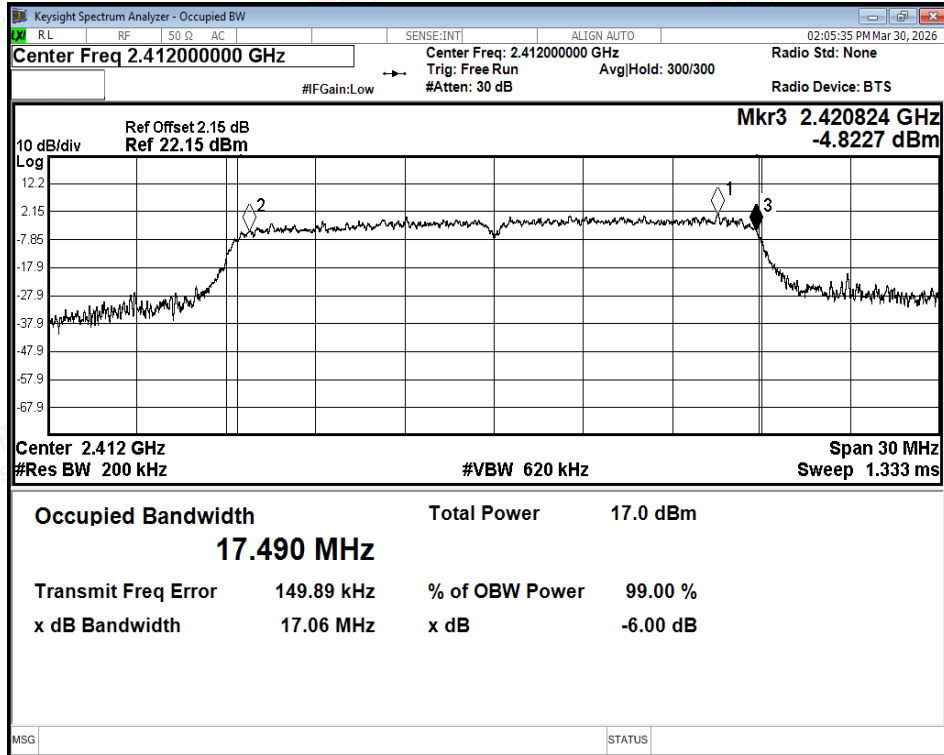


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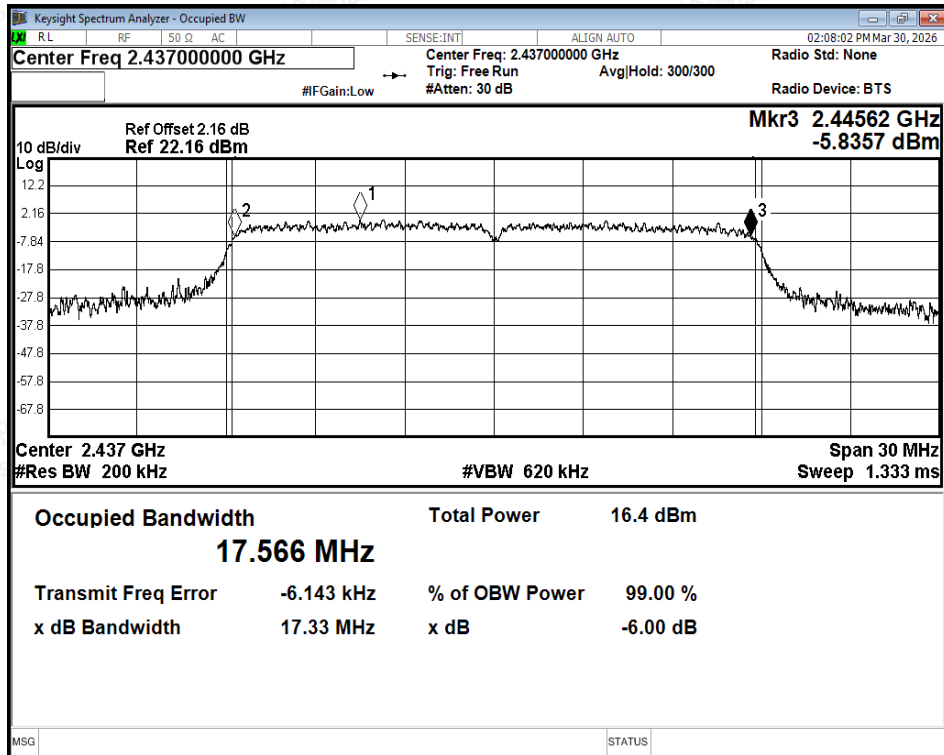
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-6dB Bandwidth NVNT n20 2412MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant2

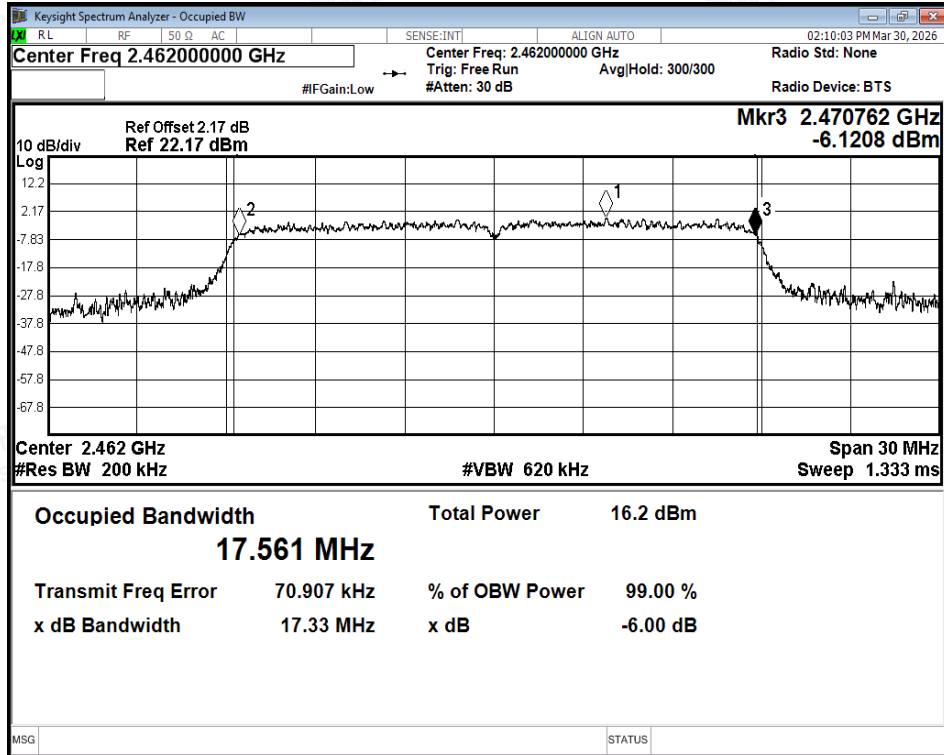


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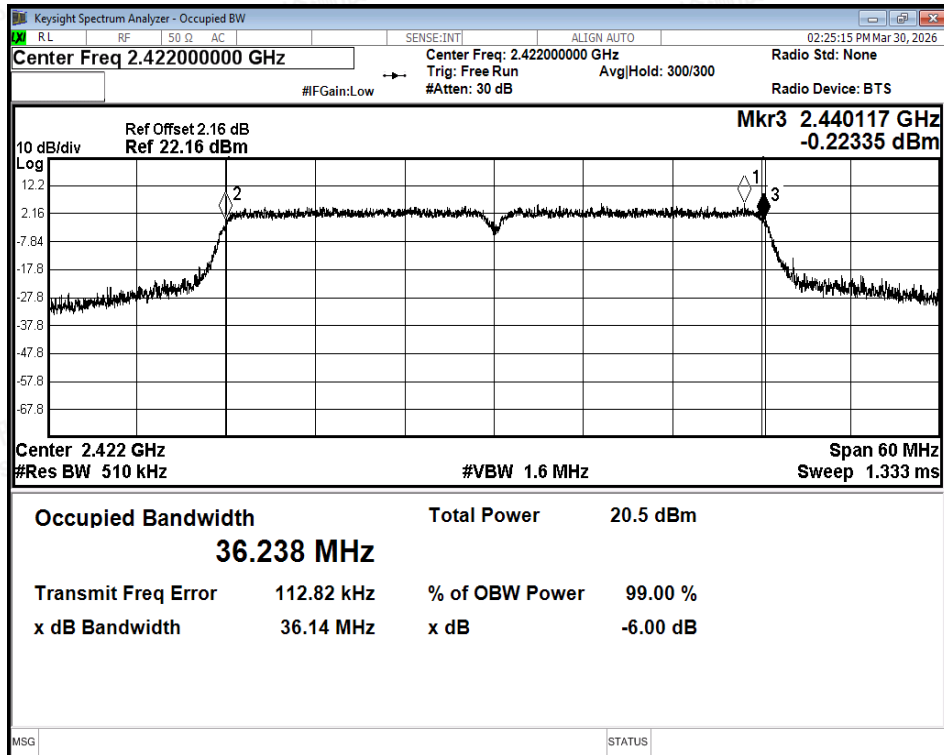
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-6dB Bandwidth NVNT n20 2462MHz Ant2



-6dB Bandwidth NVNT n40 2422MHz Ant2

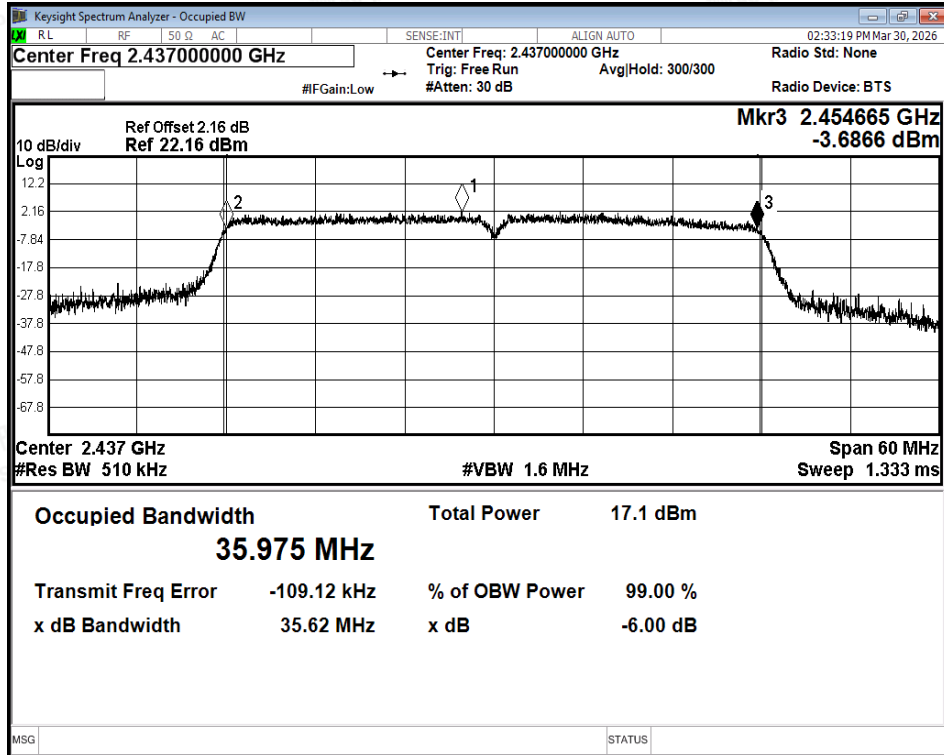


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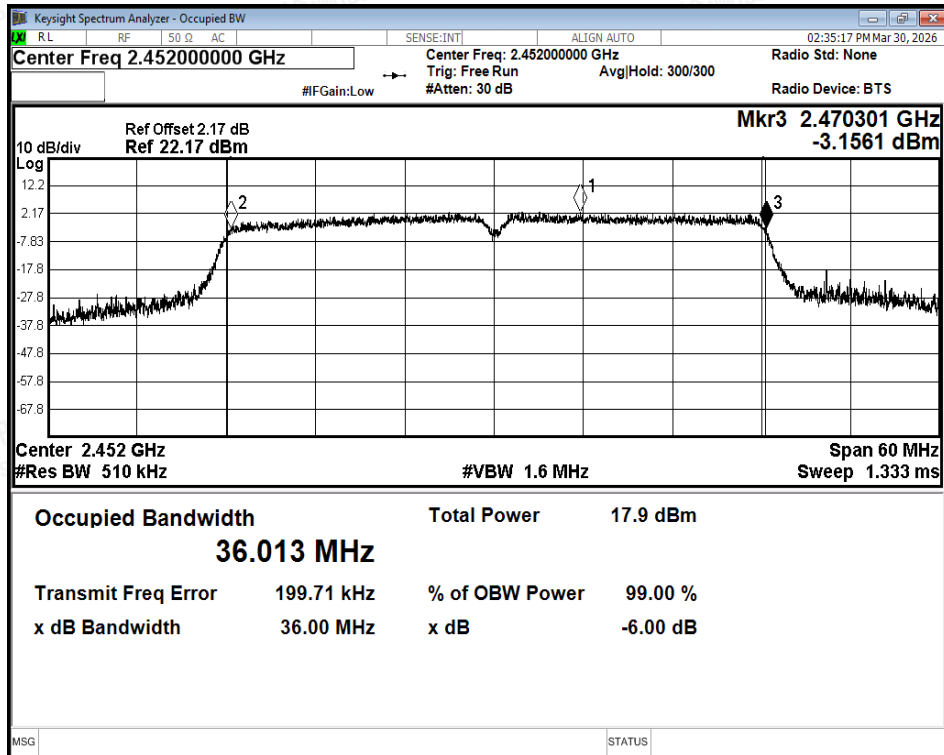
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-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



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C.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant2	13.98	0.01	13.99	30	Pass
NVNT	b	2437	Ant2	13.76	0.01	13.77	30	Pass
NVNT	b	2462	Ant2	13.2	0.01	13.21	30	Pass
NVNT	g	2412	Ant2	13.19	0.1	13.29	30	Pass
NVNT	g	2437	Ant2	13.1	0.1	13.2	30	Pass
NVNT	g	2462	Ant2	12.59	0.1	12.69	30	Pass
NVNT	n20	2412	Ant2	10.83	0.12	10.95	30	Pass
NVNT	n20	2437	Ant2	10.24	0.12	10.36	30	Pass
NVNT	n20	2462	Ant2	10.05	0.12	10.17	30	Pass
NVNT	n40	2422	Ant2	13.58	0.24	13.82	30	Pass
NVNT	n40	2437	Ant2	10.28	0.24	10.52	30	Pass
NVNT	n40	2452	Ant2	11	0.24	11.24	30	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-7.88	0.01	-7.87	8	Pass
NVNT	b	2437	Ant2	-7.8	0.01	-7.79	8	Pass
NVNT	b	2462	Ant2	-8.7	0.01	-8.69	8	Pass
NVNT	g	2412	Ant2	-10.57	0.1	-10.47	8	Pass
NVNT	g	2437	Ant2	-10.97	0.1	-10.87	8	Pass
NVNT	g	2462	Ant2	-11.5	0.1	-11.4	8	Pass
NVNT	n20	2412	Ant2	-13.46	0.12	-13.34	8	Pass
NVNT	n20	2437	Ant2	-14.73	0.12	-14.61	8	Pass
NVNT	n20	2462	Ant2	-14.93	0.12	-14.81	8	Pass
NVNT	n40	2422	Ant2	-14.54	0.24	-14.3	8	Pass
NVNT	n40	2437	Ant2	-17.64	0.24	-17.4	8	Pass
NVNT	n40	2452	Ant2	-16.65	0.24	-16.41	8	Pass

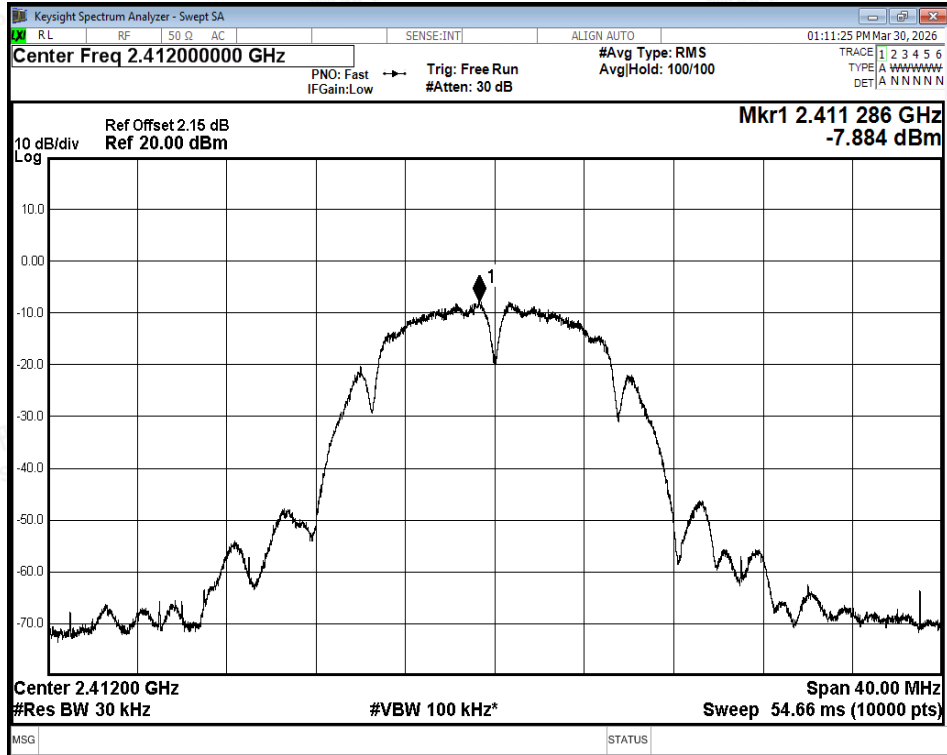


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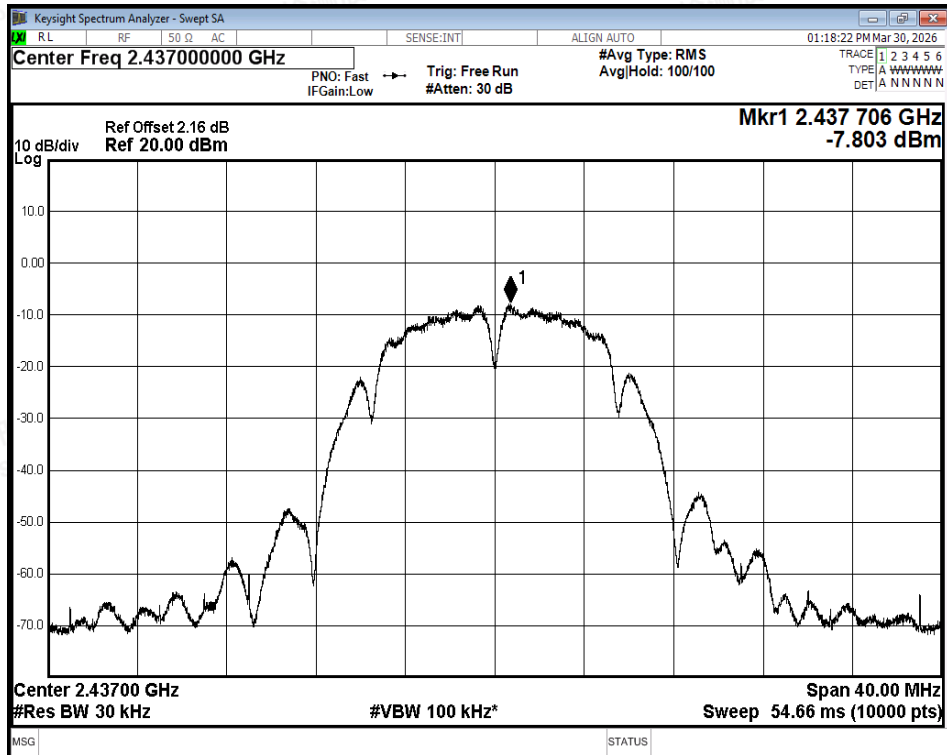
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PSD NVNT b 2412MHz Ant2



PSD NVNT b 2437MHz Ant2

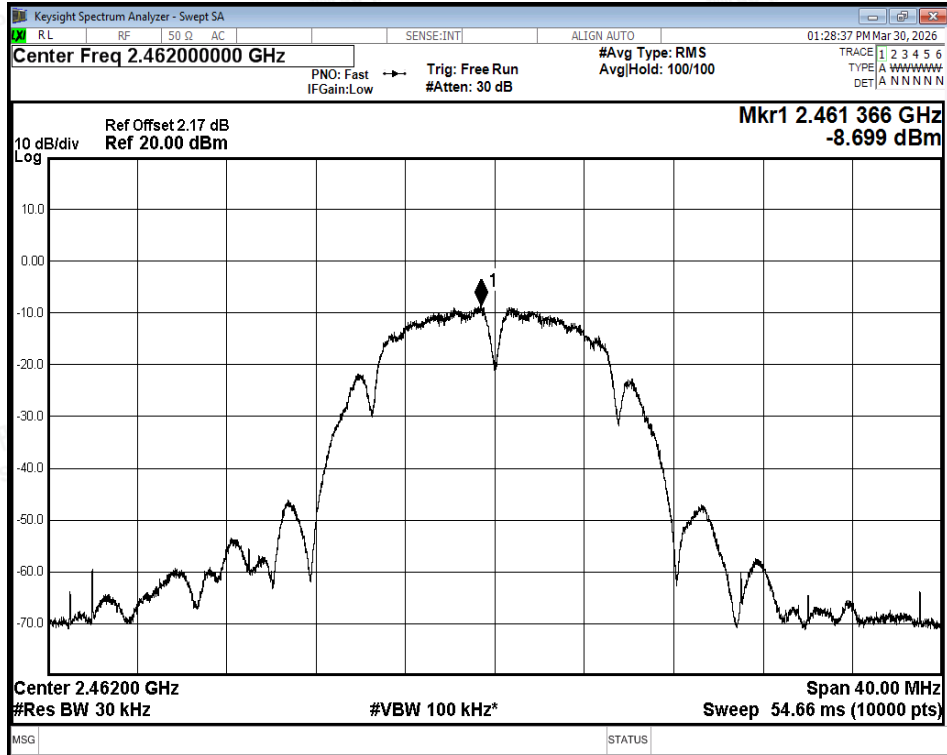


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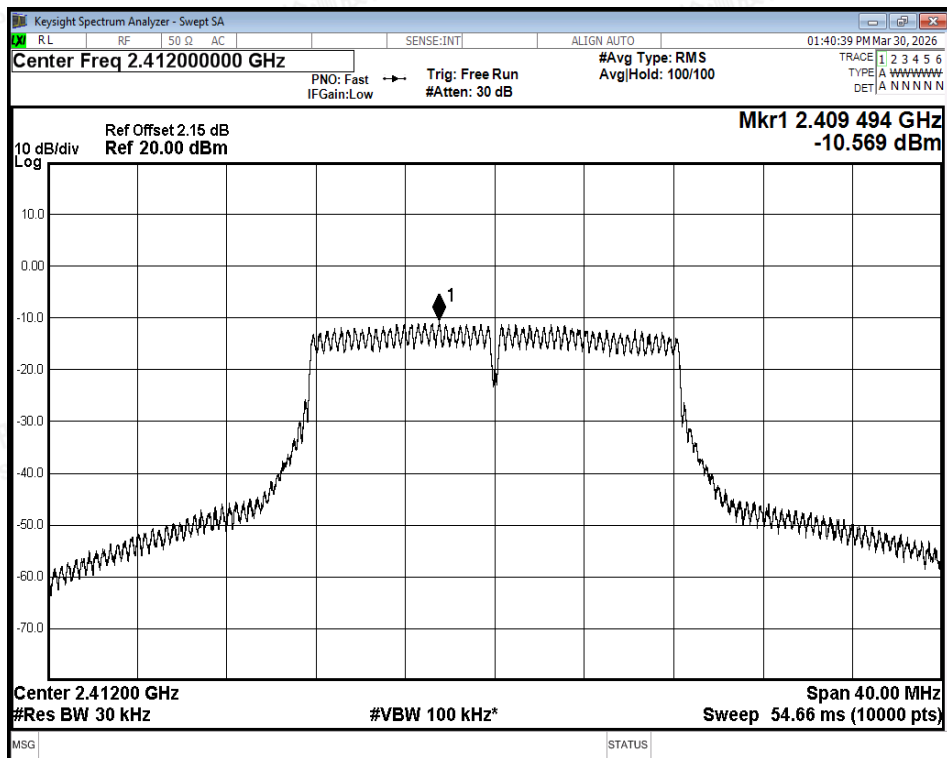
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PSD NVNT b 2462MHz Ant2



PSD NVNT g 2412MHz Ant2

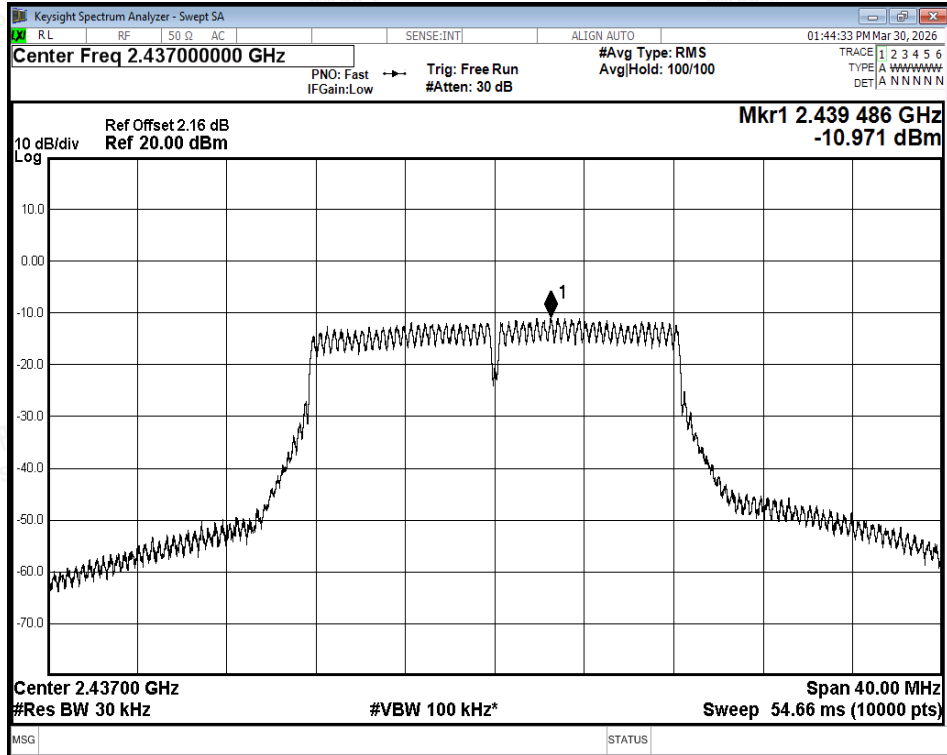


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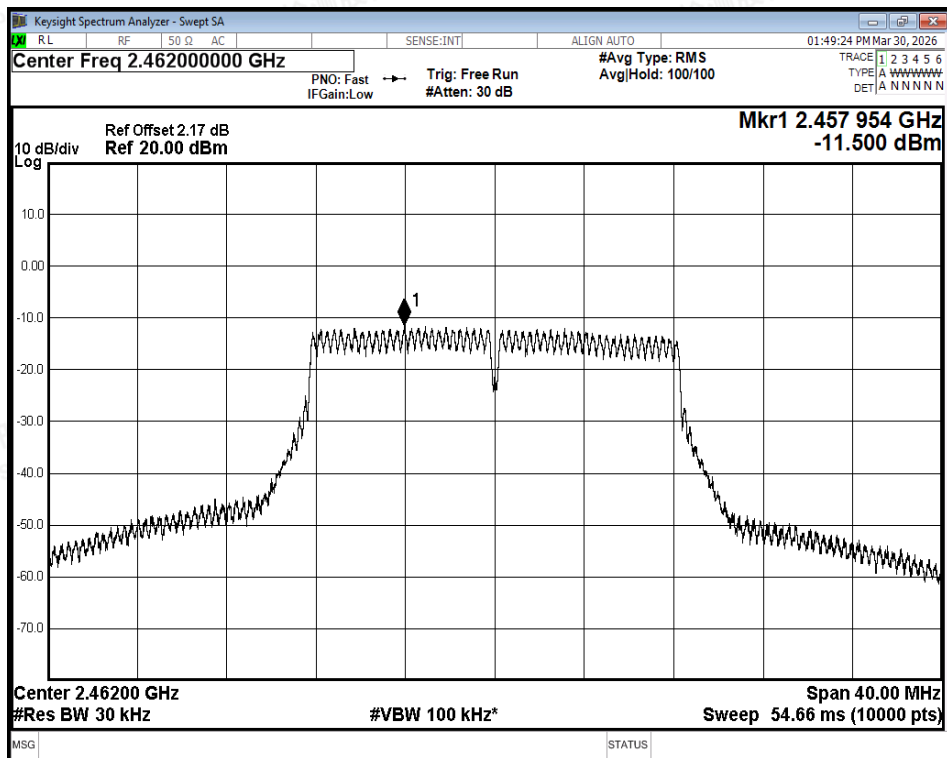
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PSD NVNT g 2437MHz Ant2



PSD NVNT g 2462MHz Ant2

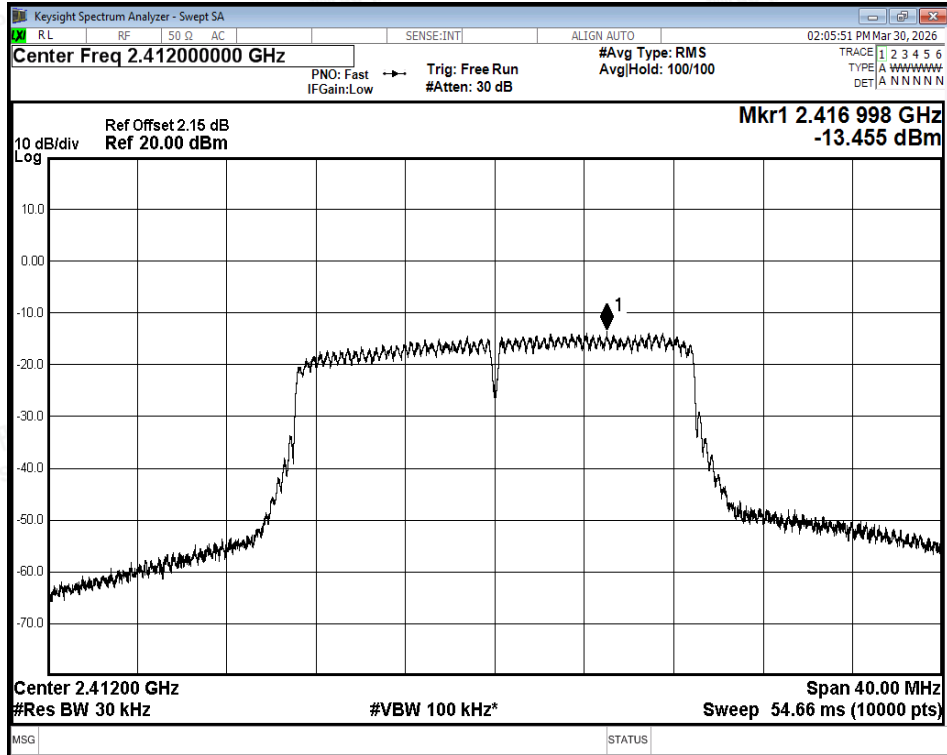


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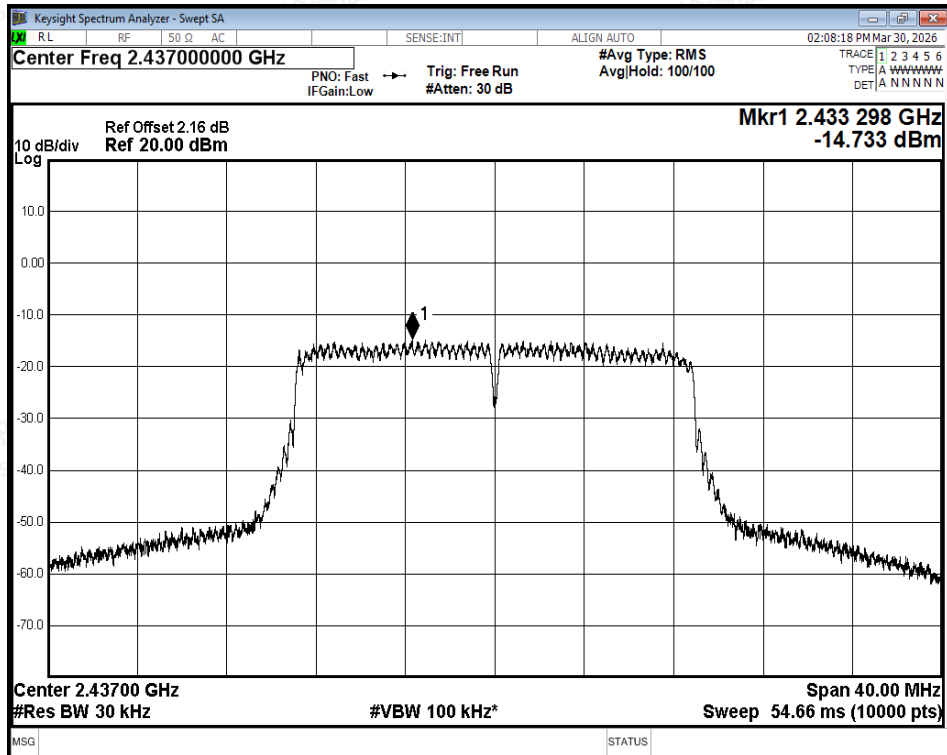
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PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant2

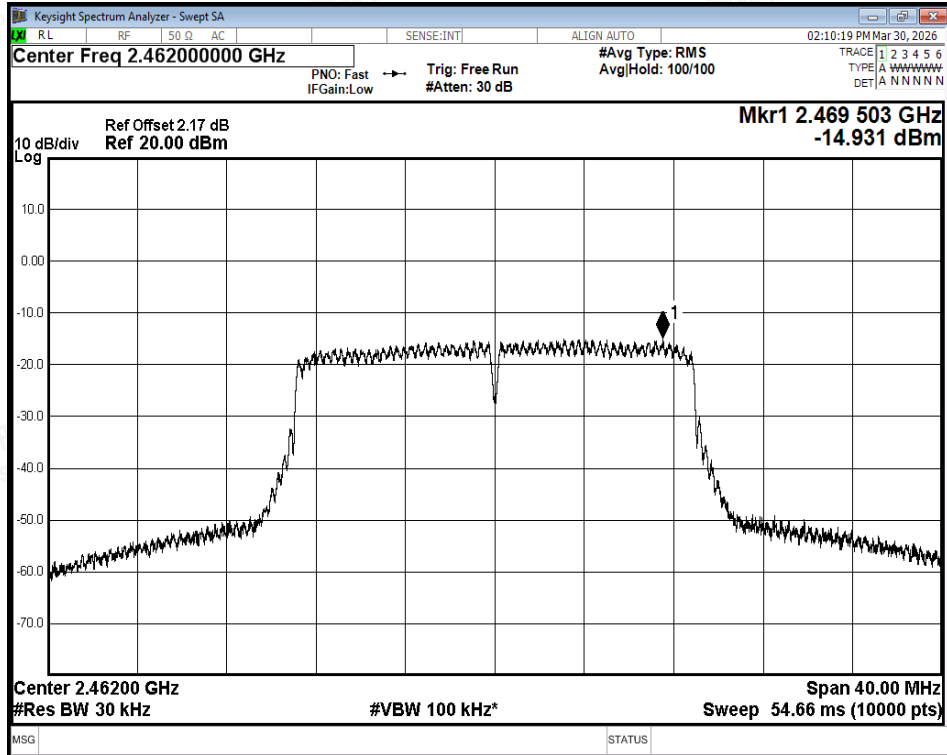


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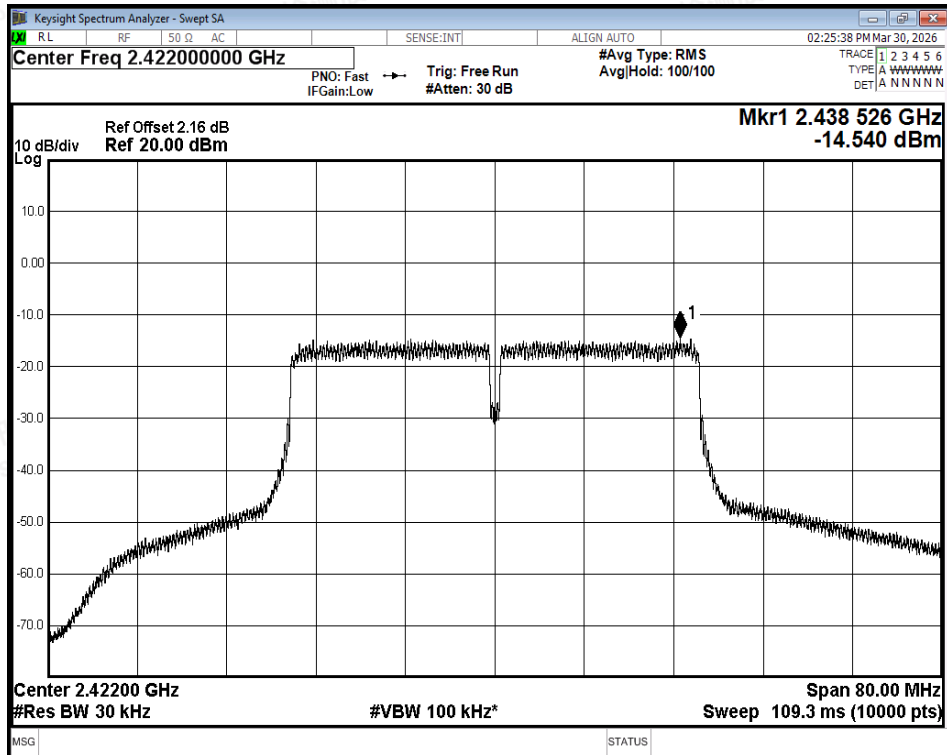
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PSD NVNT n20 2462MHz Ant2



PSD NVNT n40 2422MHz Ant2

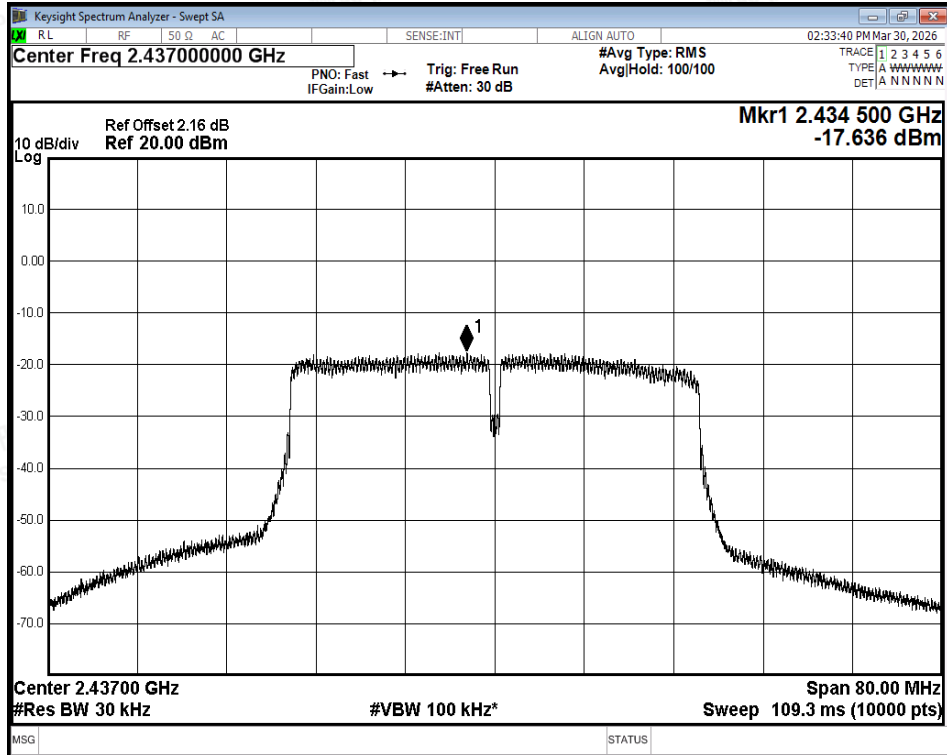


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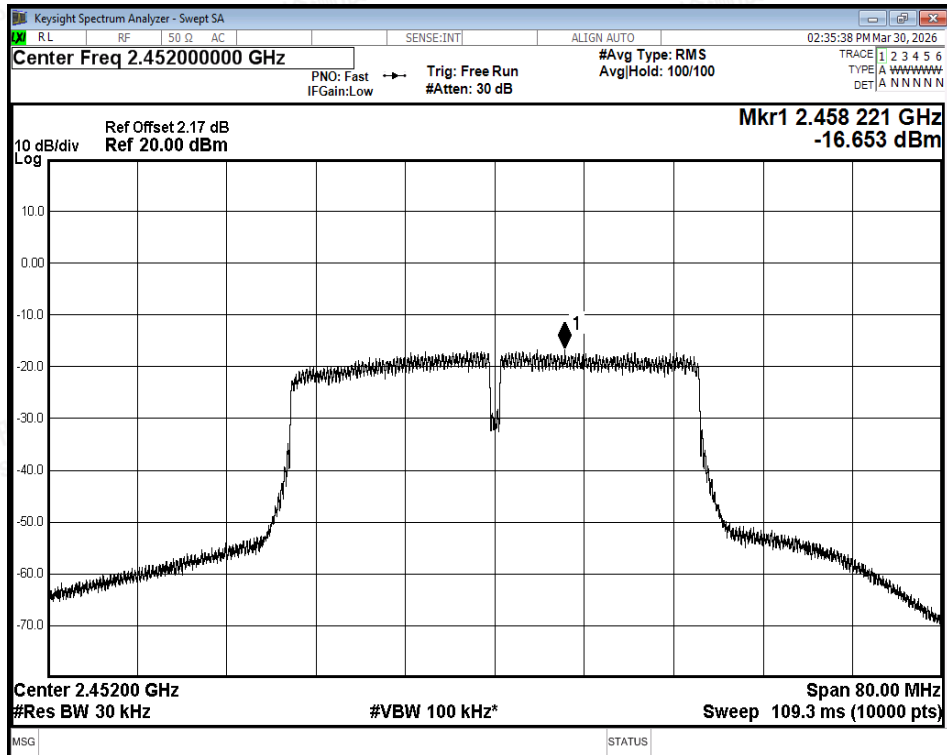
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PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant2

PSD NVNT be20 2462MHz Ant2



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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-48.53	-30	Pass
NVNT	b	2462	Ant2	-59.91	-30	Pass
NVNT	g	2412	Ant2	-32.46	-30	Pass
NVNT	g	2462	Ant2	-41.73	-30	Pass
NVNT	n20	2412	Ant2	-30.83	-30	Pass
NVNT	n20	2462	Ant2	-42.91	-30	Pass
NVNT	n40	2422	Ant2	-35.45	-30	Pass
NVNT	n40	2452	Ant2	-40.76	-30	Pass

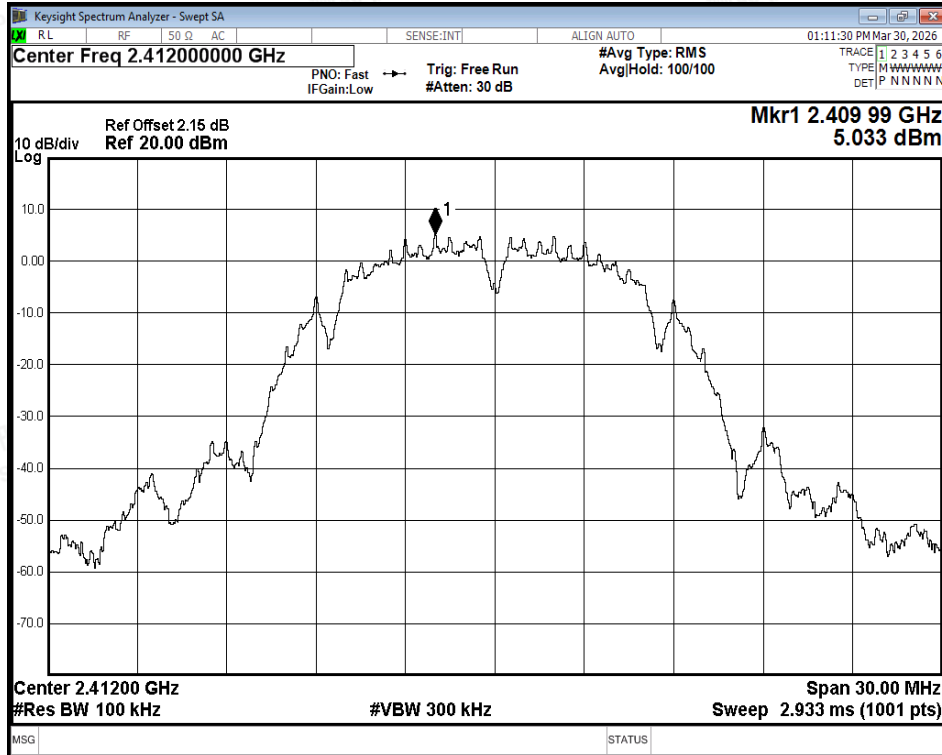


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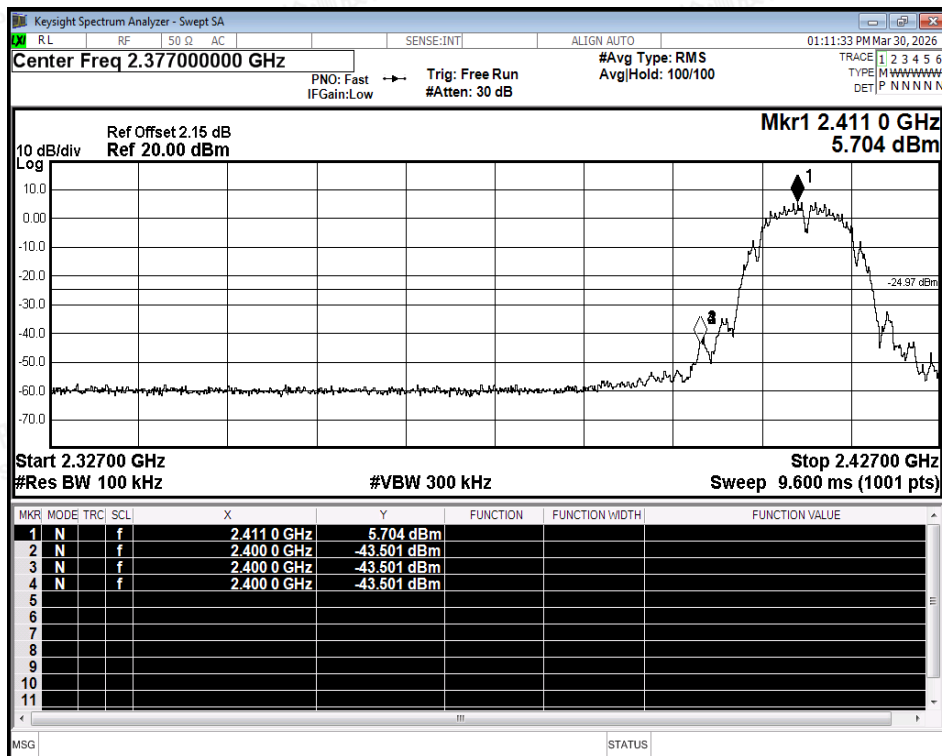
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Band Edge NVNT b 2412MHz Ant2 Ref



Band Edge NVNT b 2412MHz Ant2 Emission

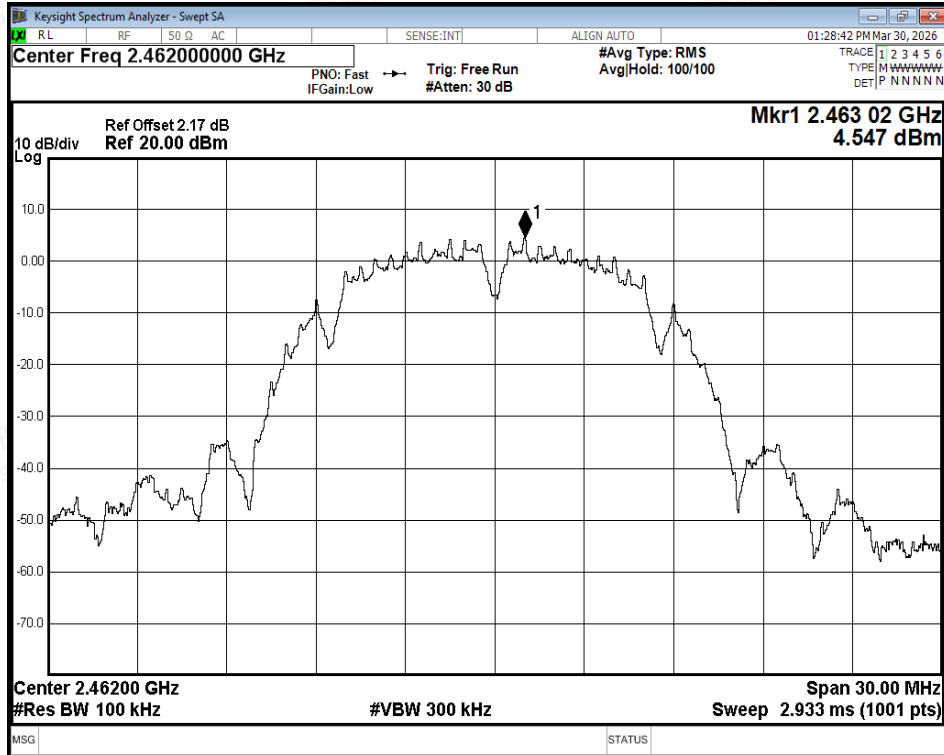


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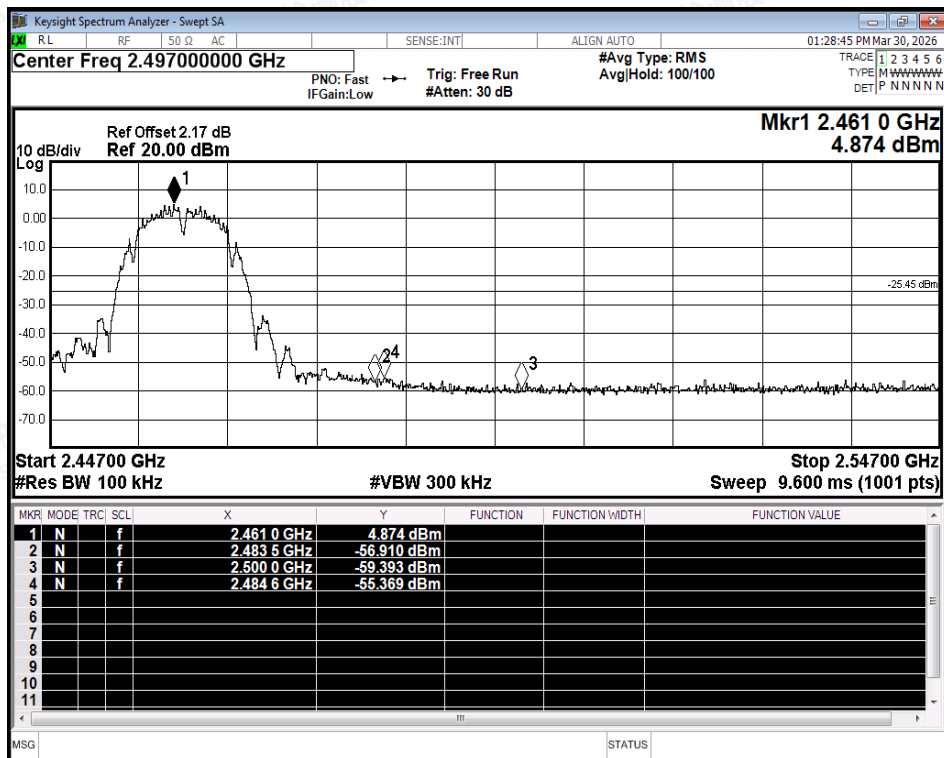
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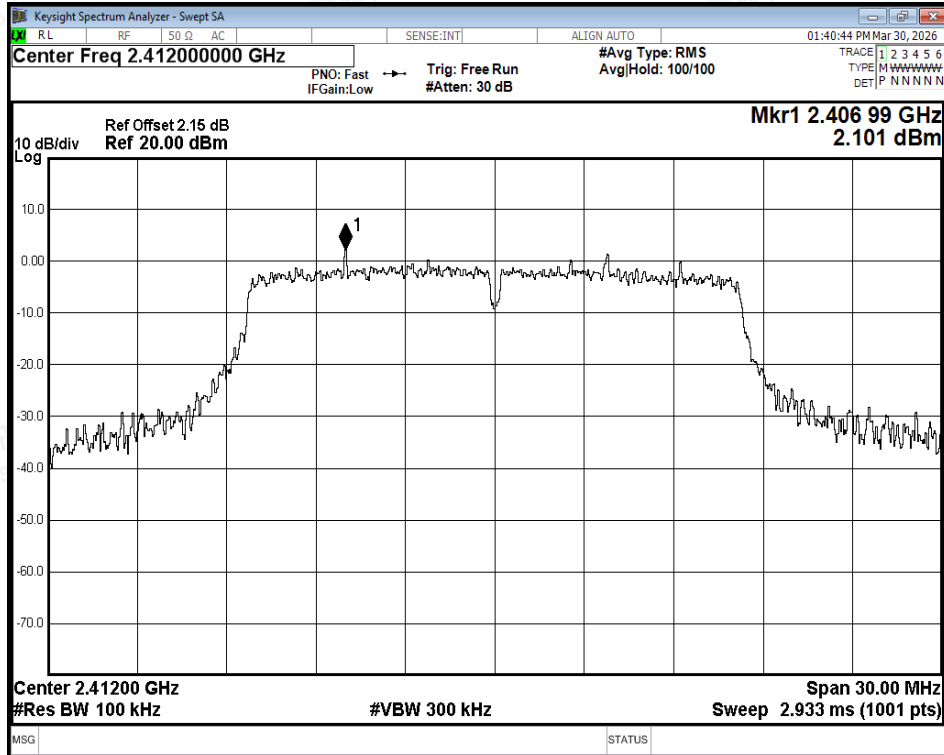


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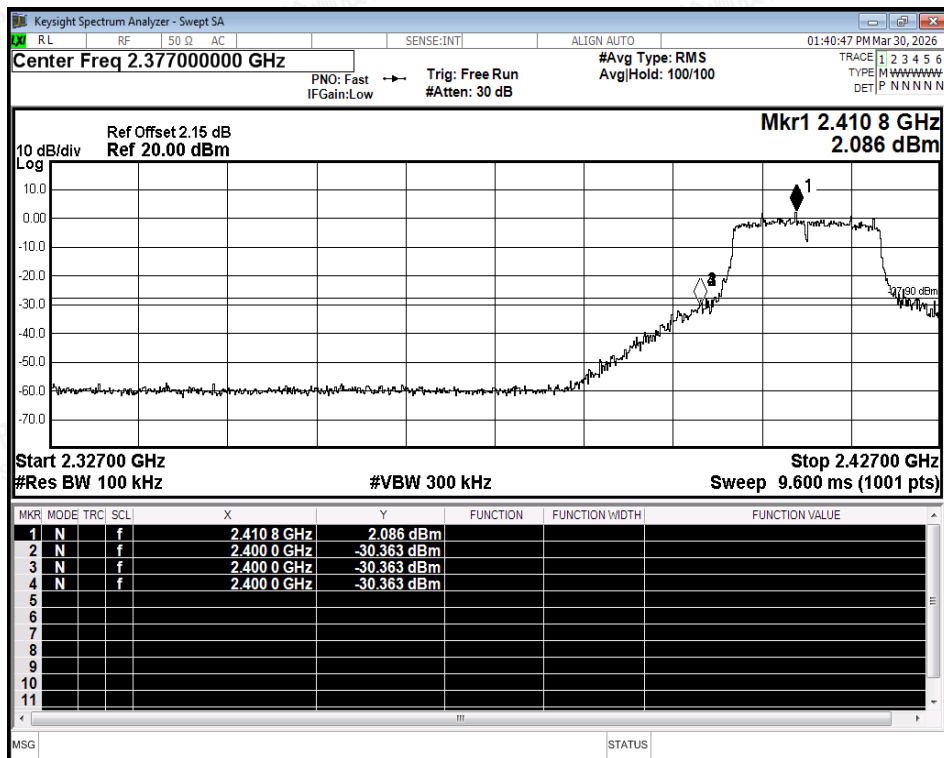
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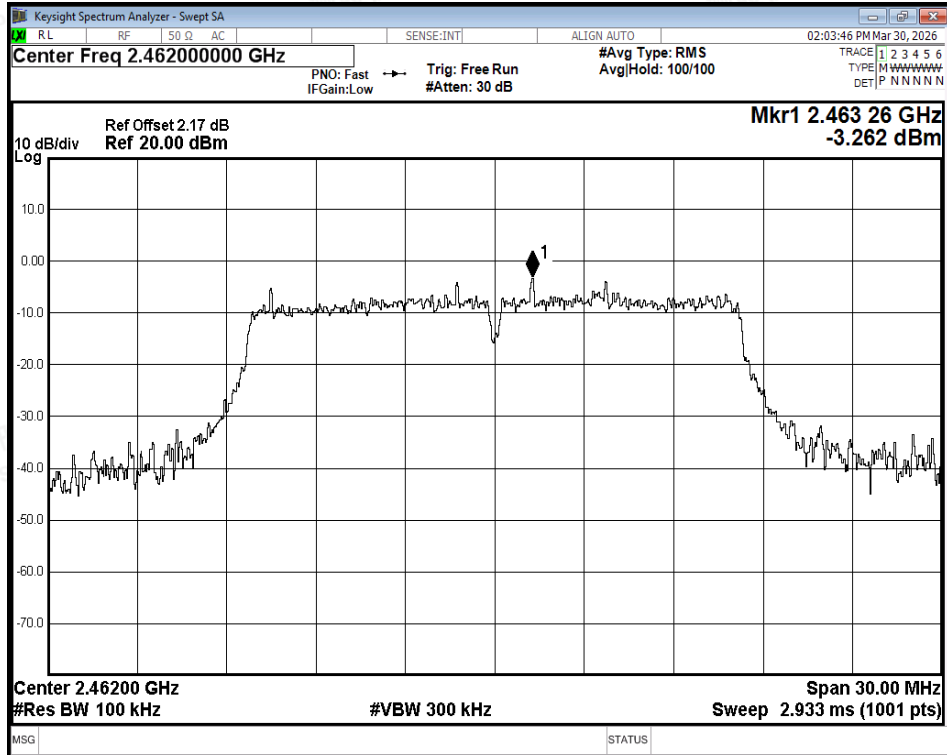


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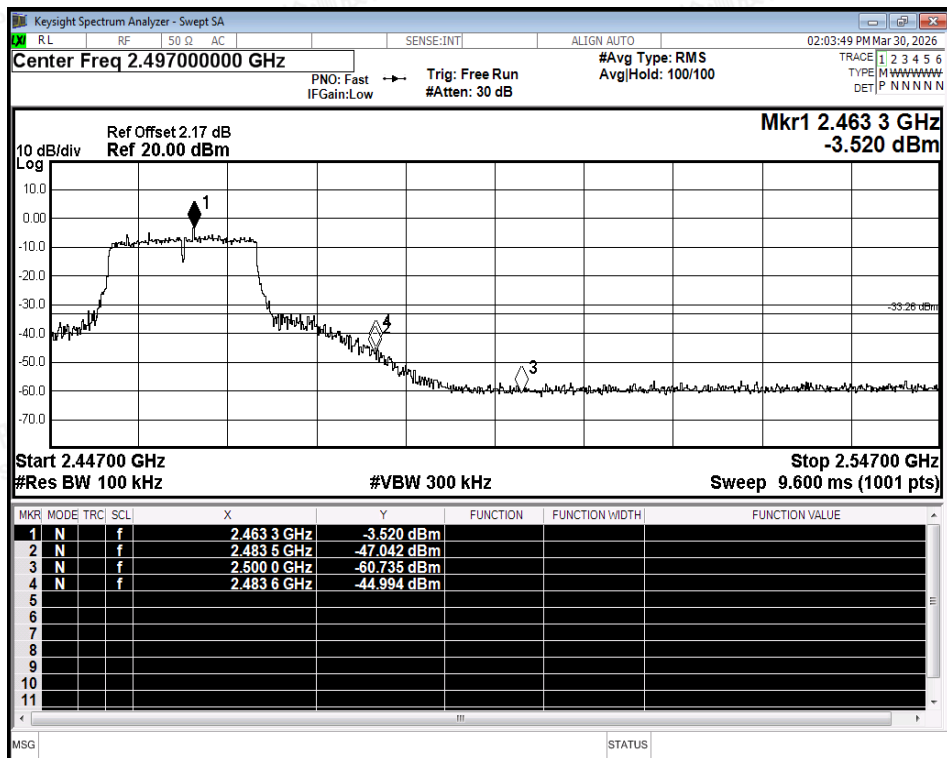
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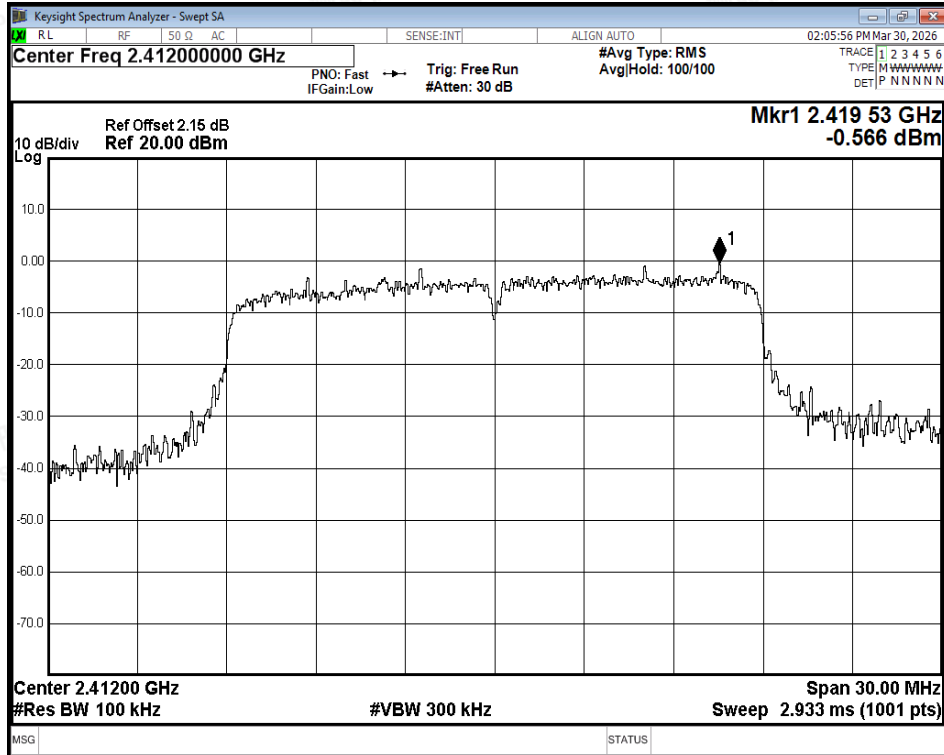


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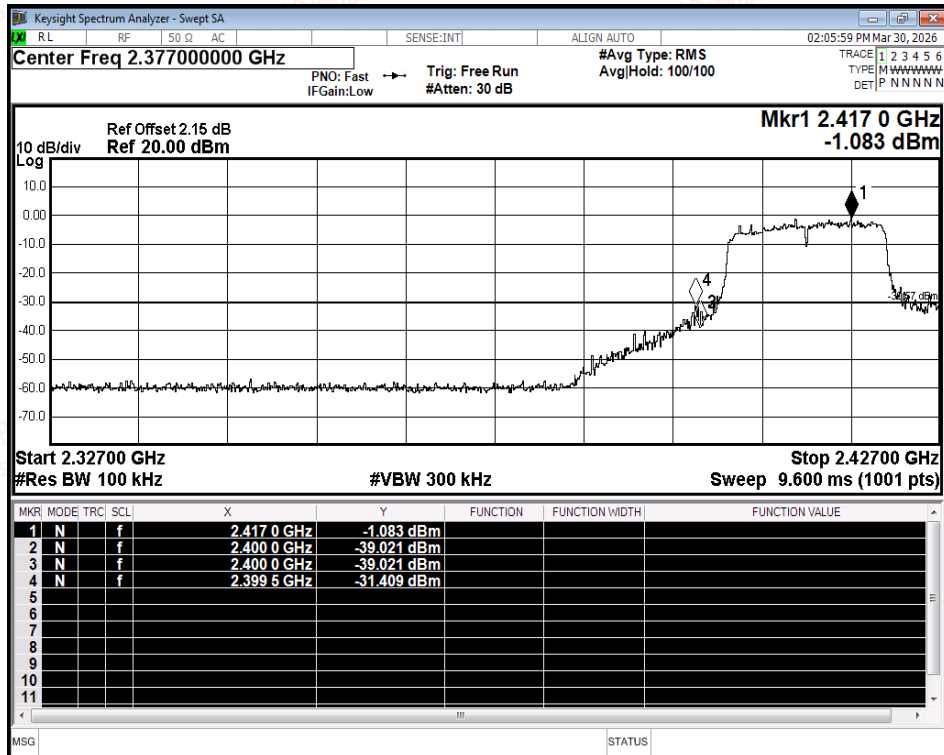
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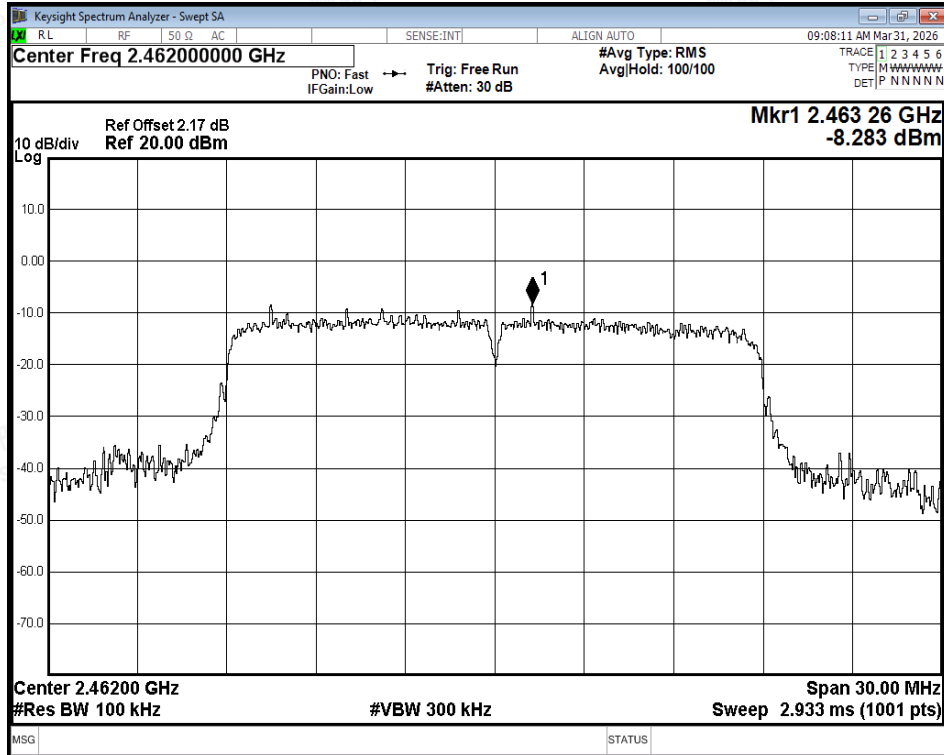


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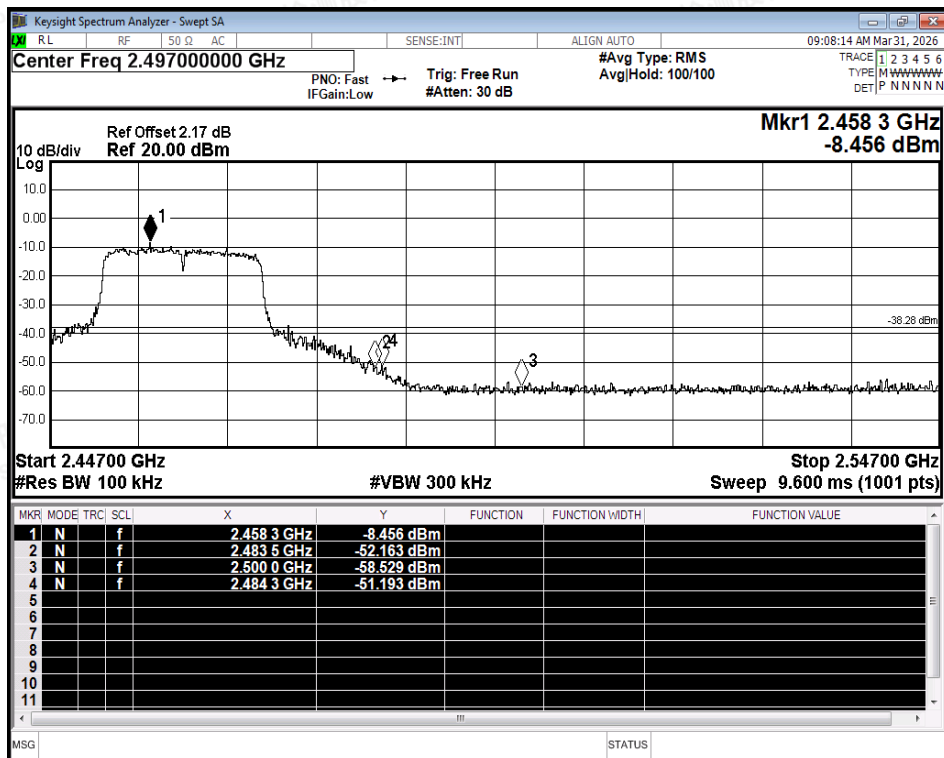
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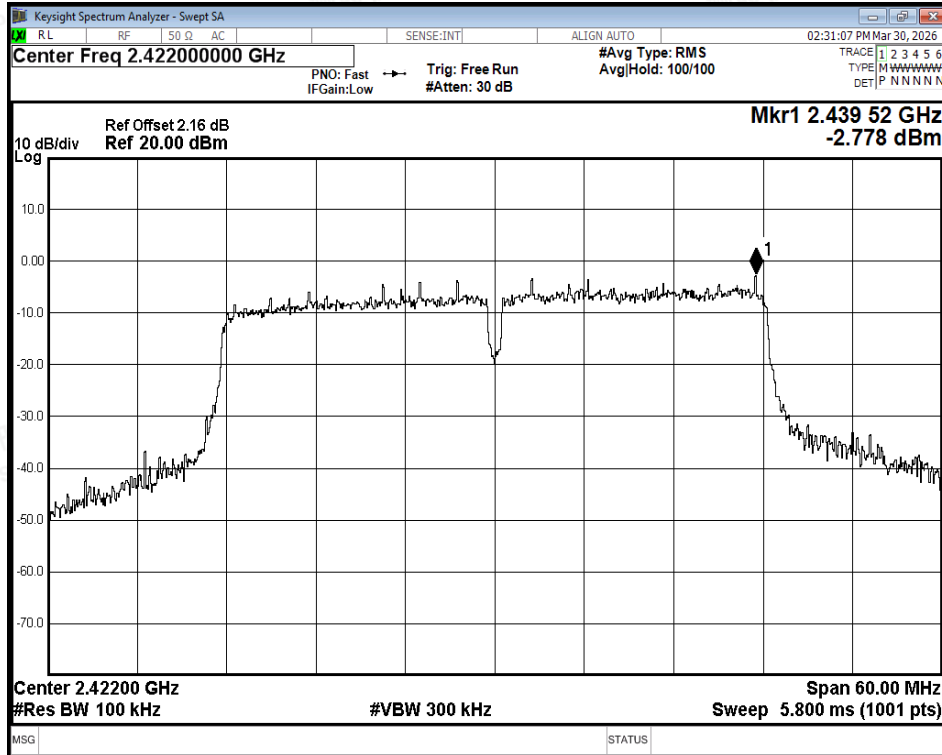


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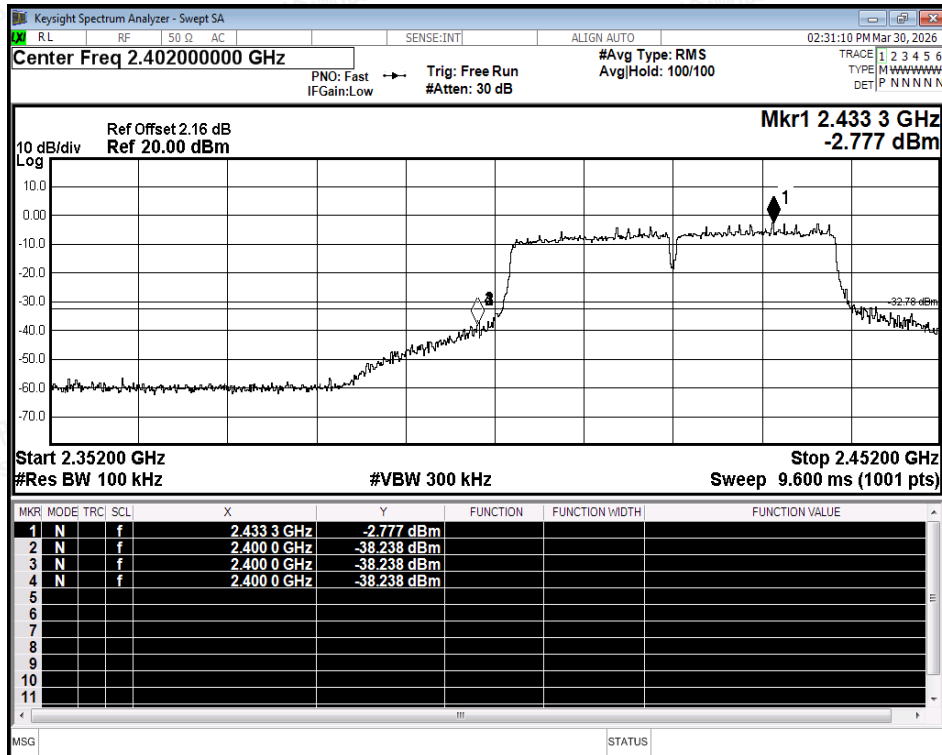
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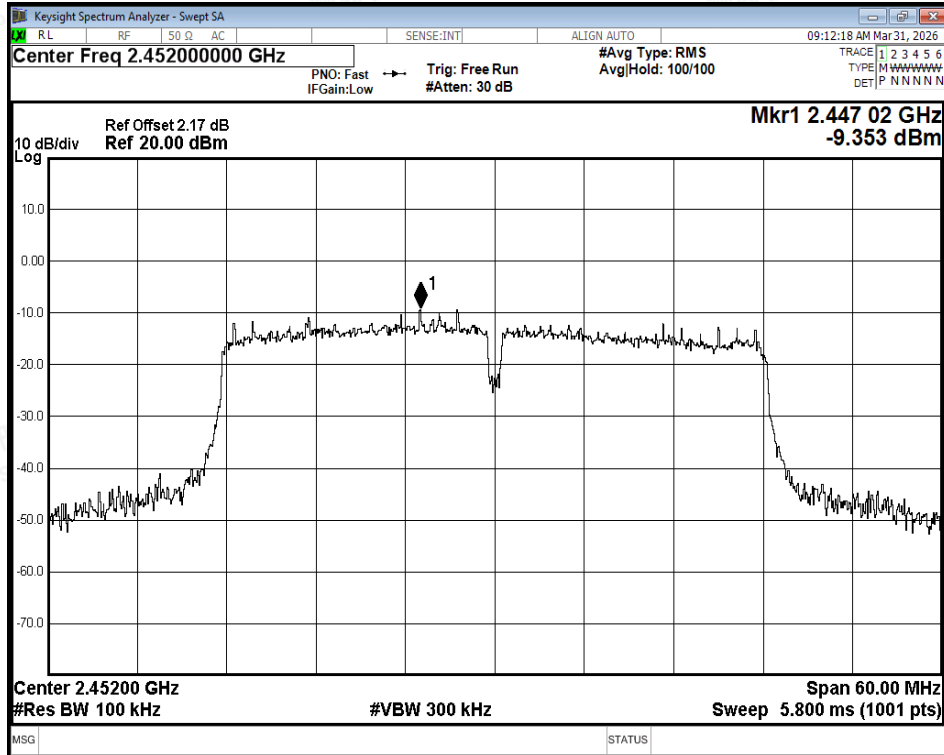


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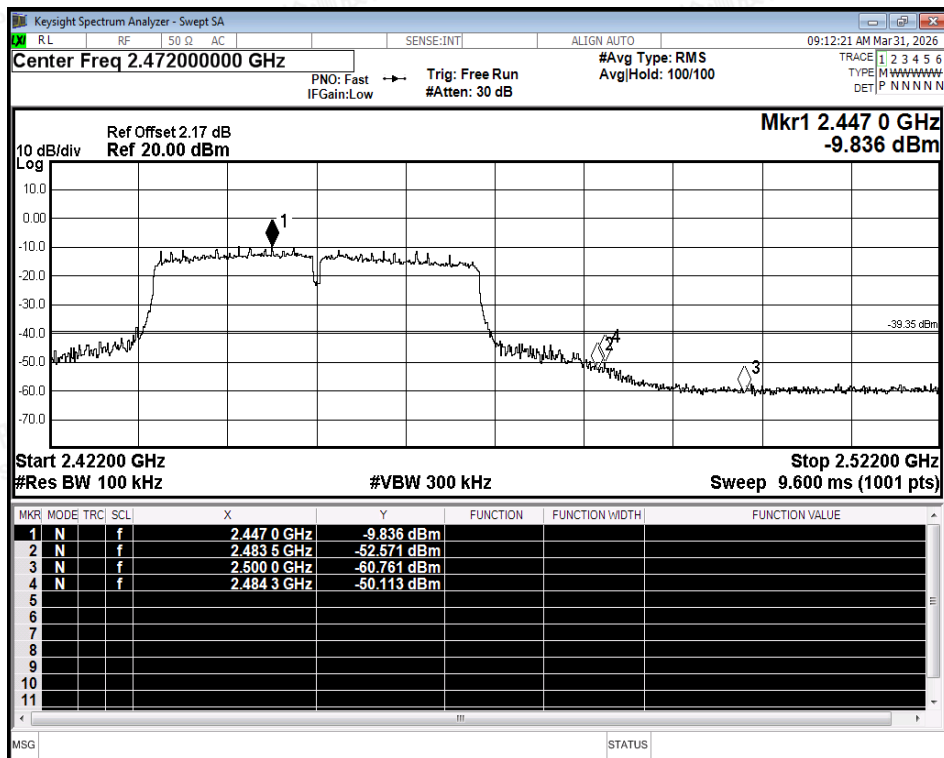
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Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-43.06	-30	Pass
NVNT	b	2437	Ant2	-41.91	-30	Pass
NVNT	b	2462	Ant2	-42.56	-30	Pass
NVNT	g	2412	Ant2	-39.73	-30	Pass
NVNT	g	2437	Ant2	-40.28	-30	Pass
NVNT	g	2462	Ant2	-39.08	-30	Pass
NVNT	n20	2412	Ant2	-36.76	-30	Pass
NVNT	n20	2437	Ant2	-36.25	-30	Pass
NVNT	n20	2462	Ant2	-36.44	-30	Pass
NVNT	n40	2422	Ant2	-36.96	-30	Pass
NVNT	n40	2437	Ant2	-33.67	-30	Pass
NVNT	n40	2452	Ant2	-35.97	-30	Pass

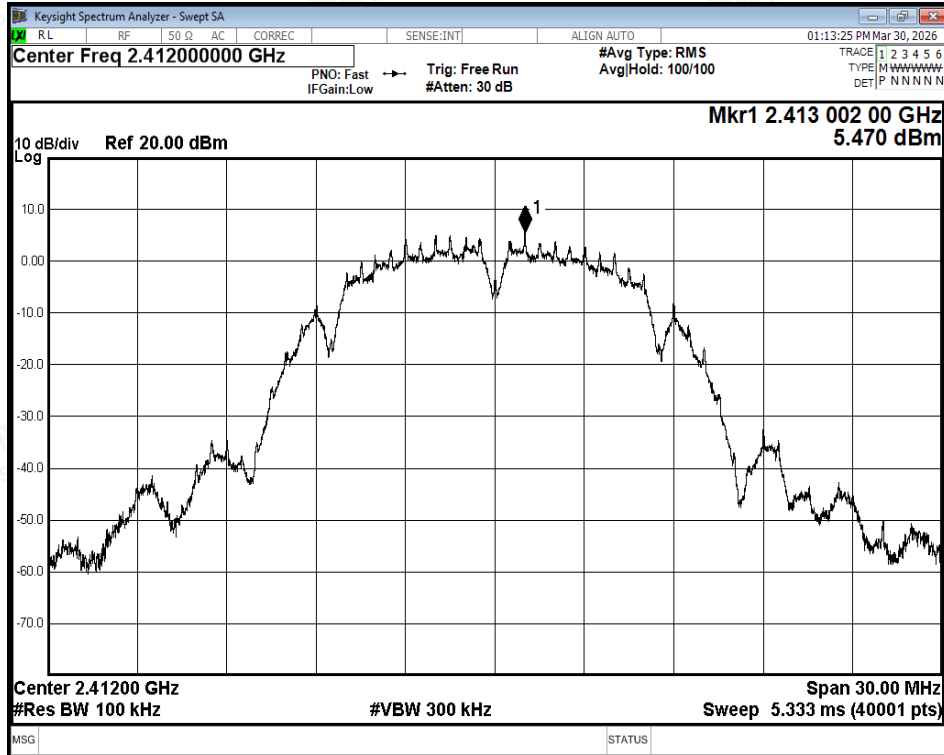


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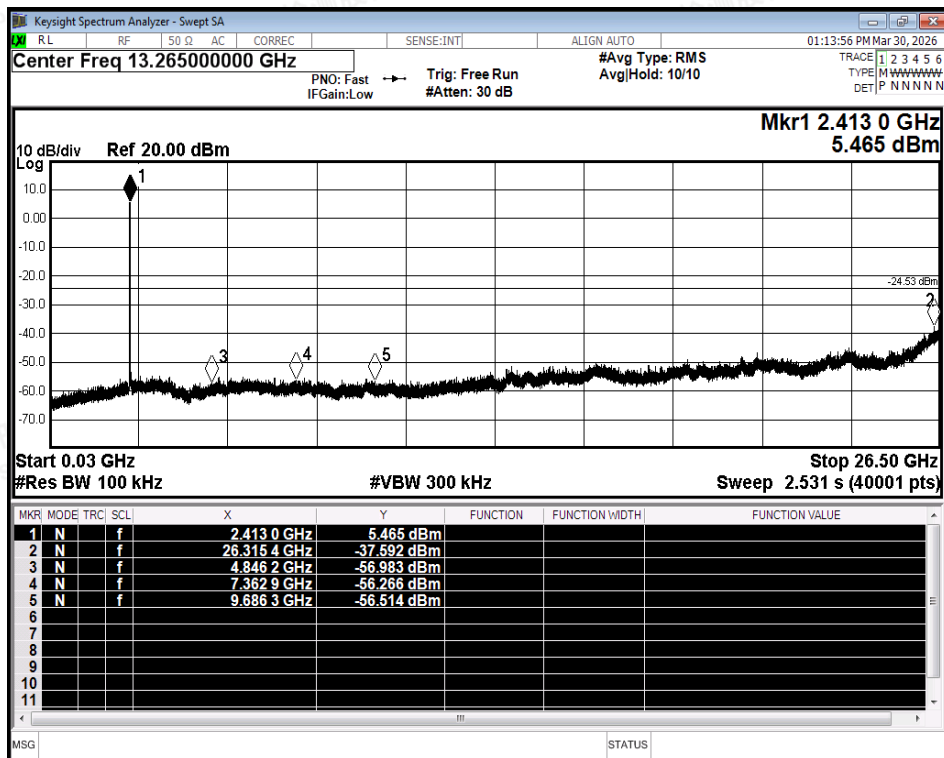
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2412MHz Ant2 Ref



Tx. Spurious NVNT b 2412MHz Ant2 Emission

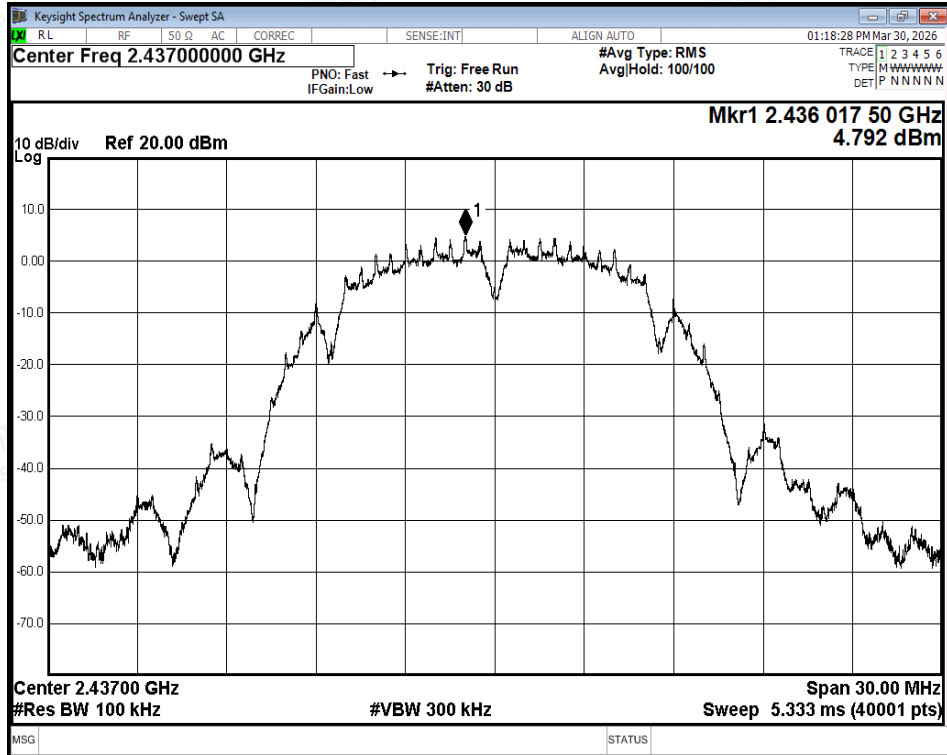


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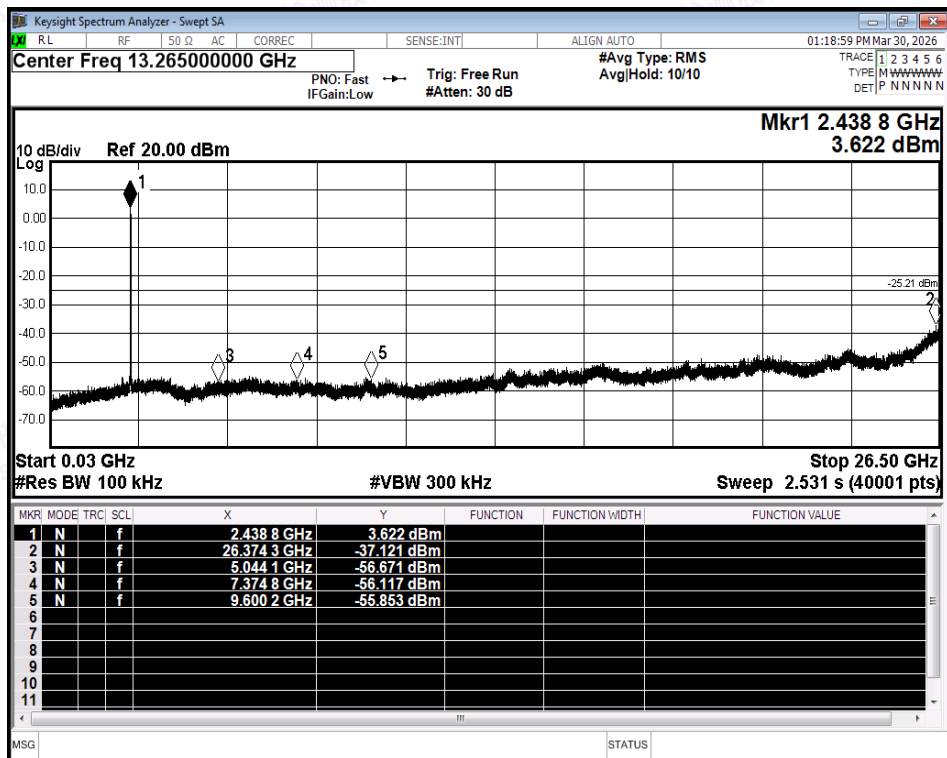
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Tx. Spurious NVNT b 2437MHz Ant2 Ref



Tx. Spurious NVNT b 2437MHz Ant2 Emission

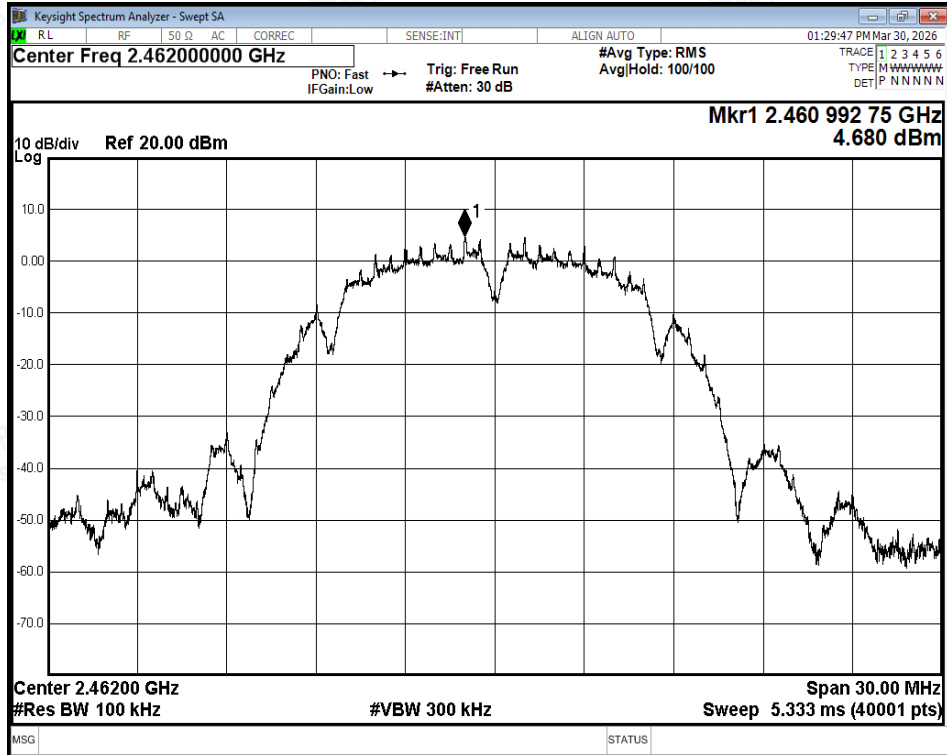


Shenzhen LCS Compliance Testing Laboratory Ltd.

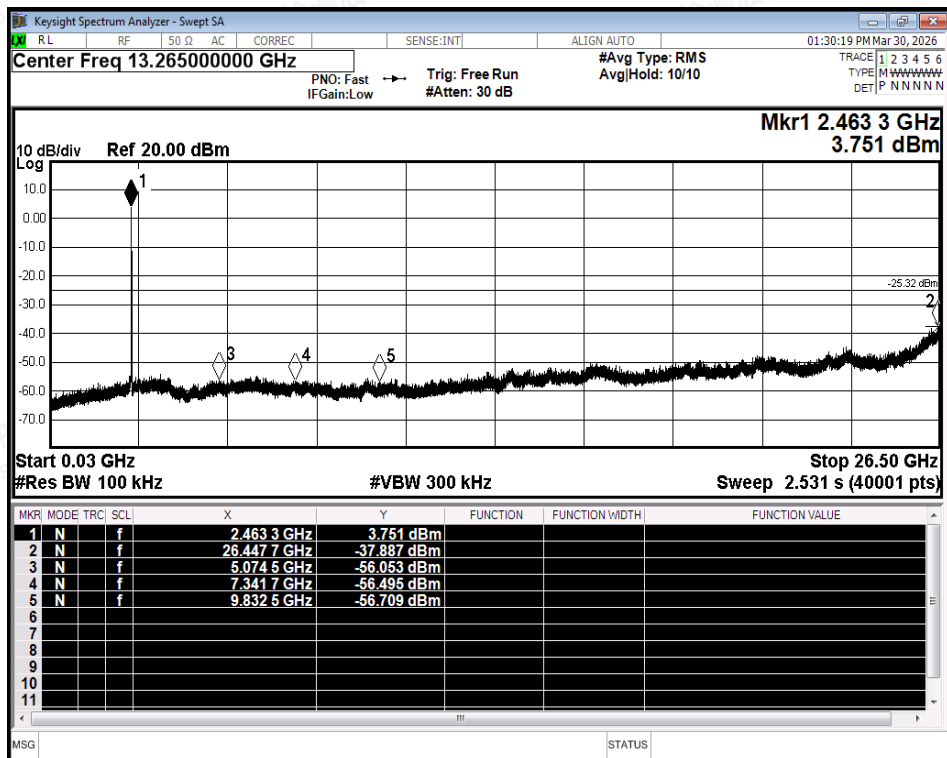
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2462MHz Ant2 Emission

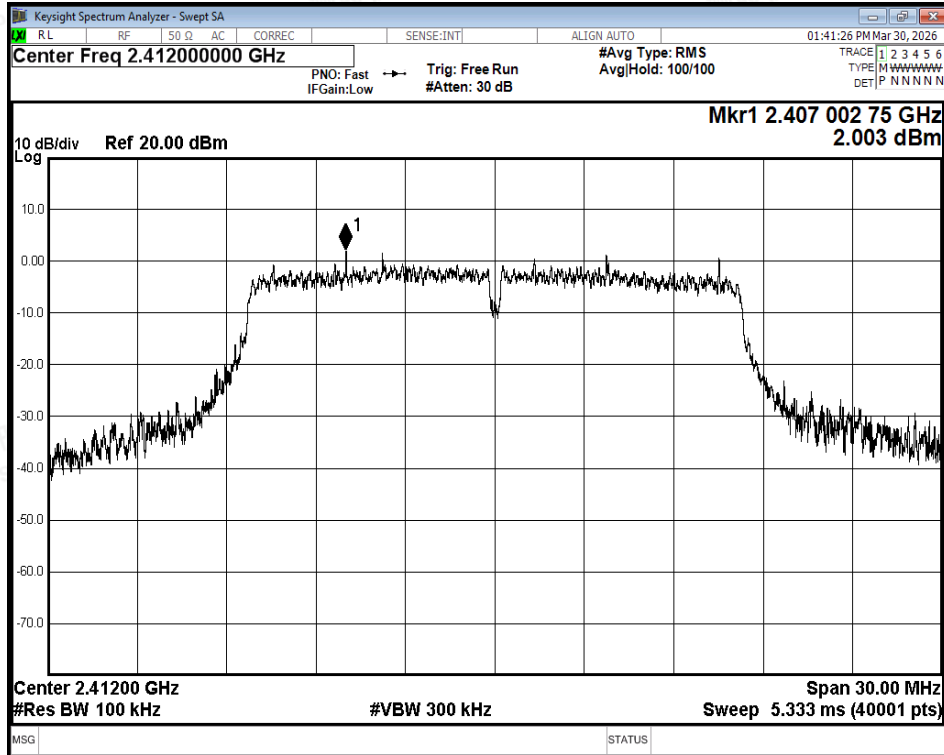


Shenzhen LCS Compliance Testing Laboratory Ltd.

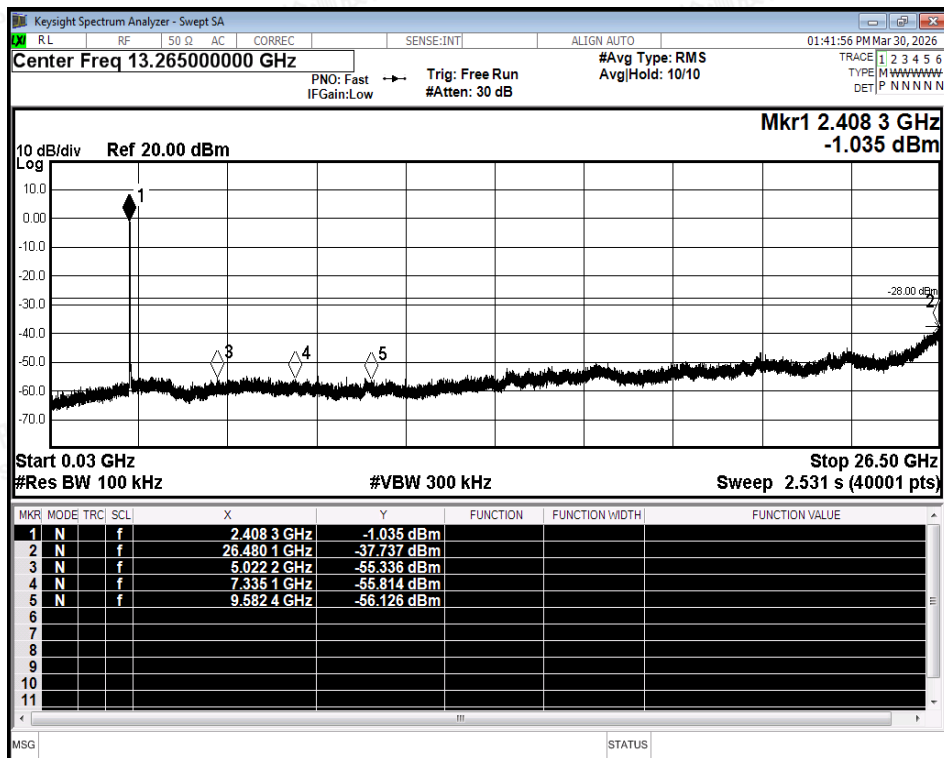
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2412MHz Ant2 Ref



Tx. Spurious NVNT g 2412MHz Ant2 Emission

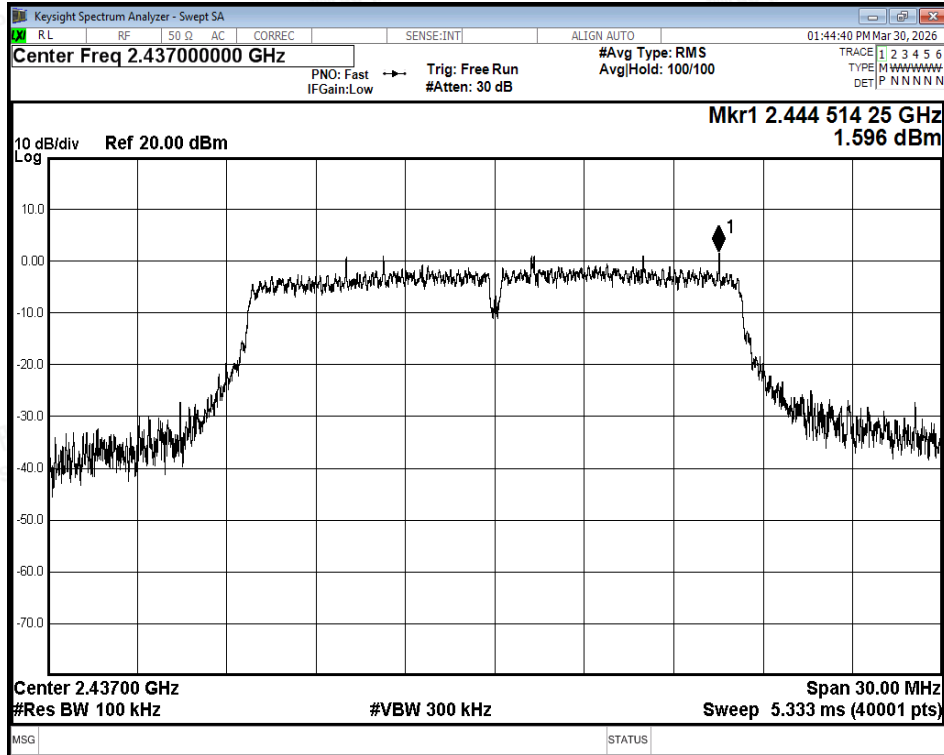


Shenzhen LCS Compliance Testing Laboratory Ltd.

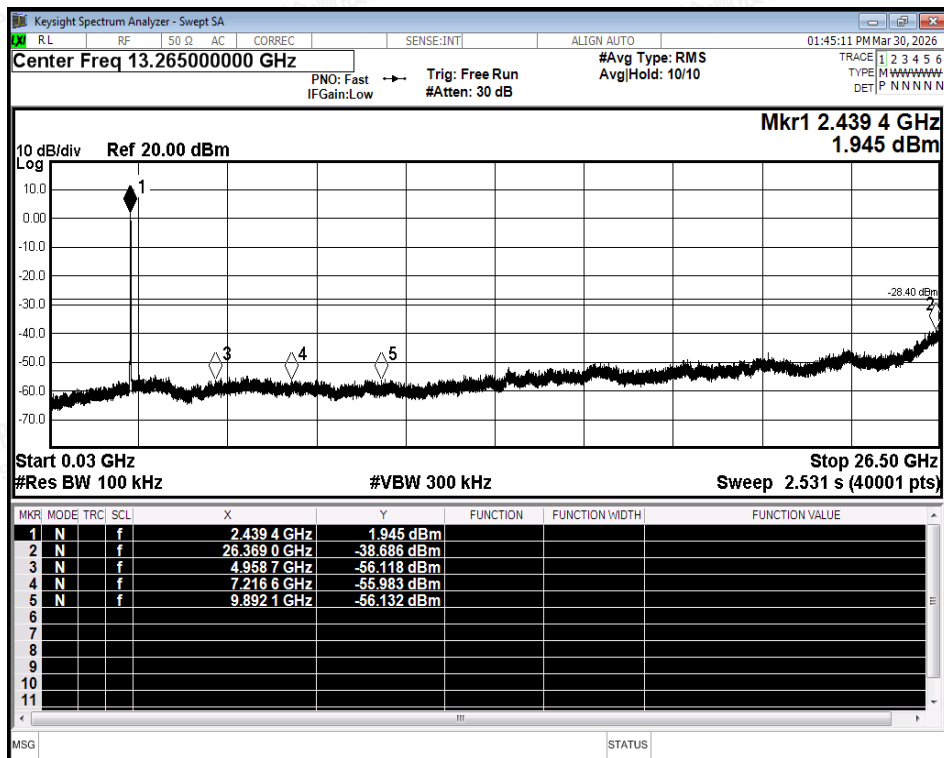
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2437MHz Ant2 Ref



Tx. Spurious NVNT g 2437MHz Ant2 Emission

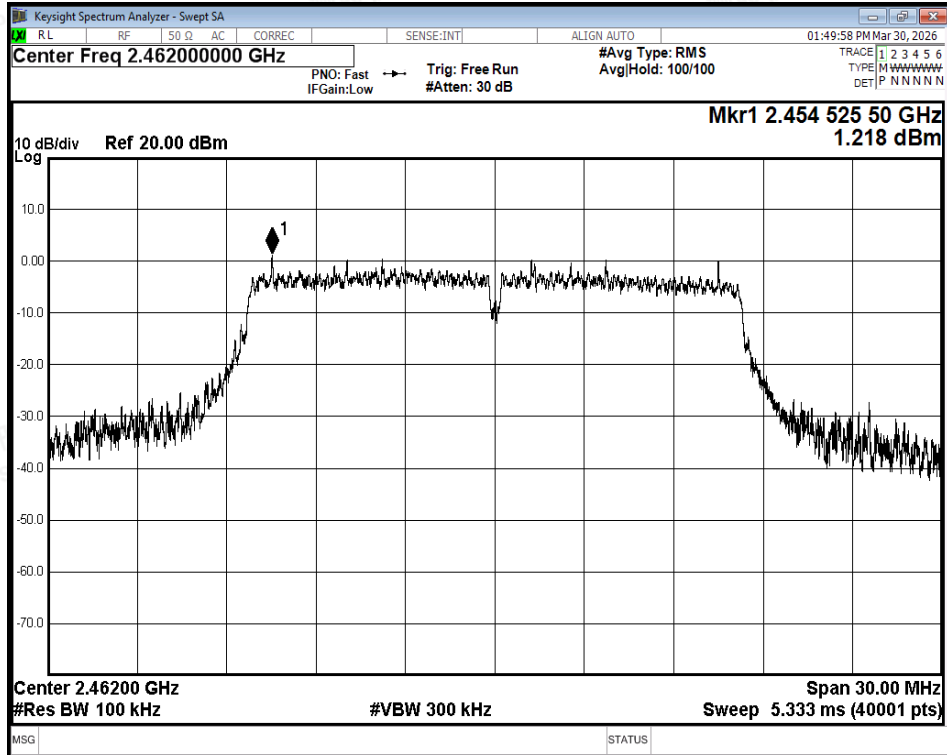


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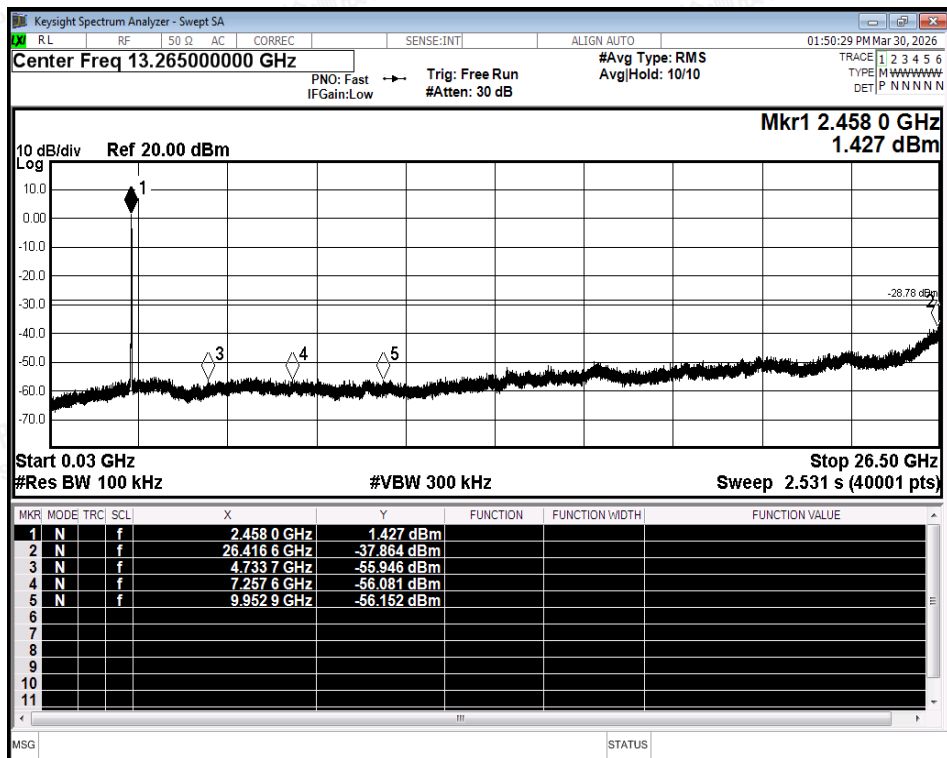
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant2 Emission

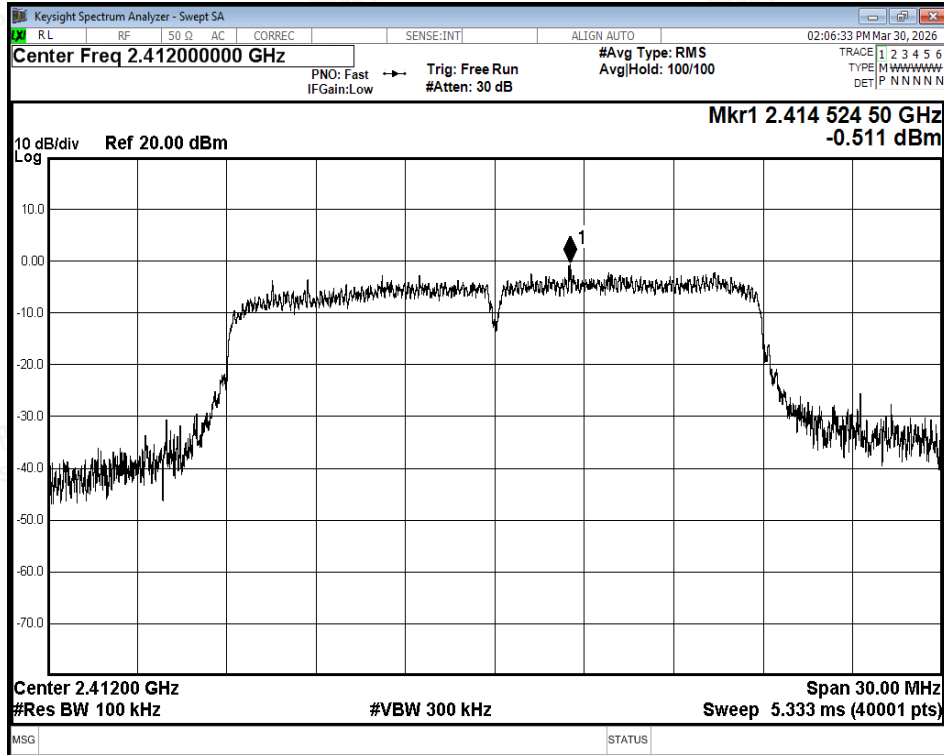


Shenzhen LCS Compliance Testing Laboratory Ltd.

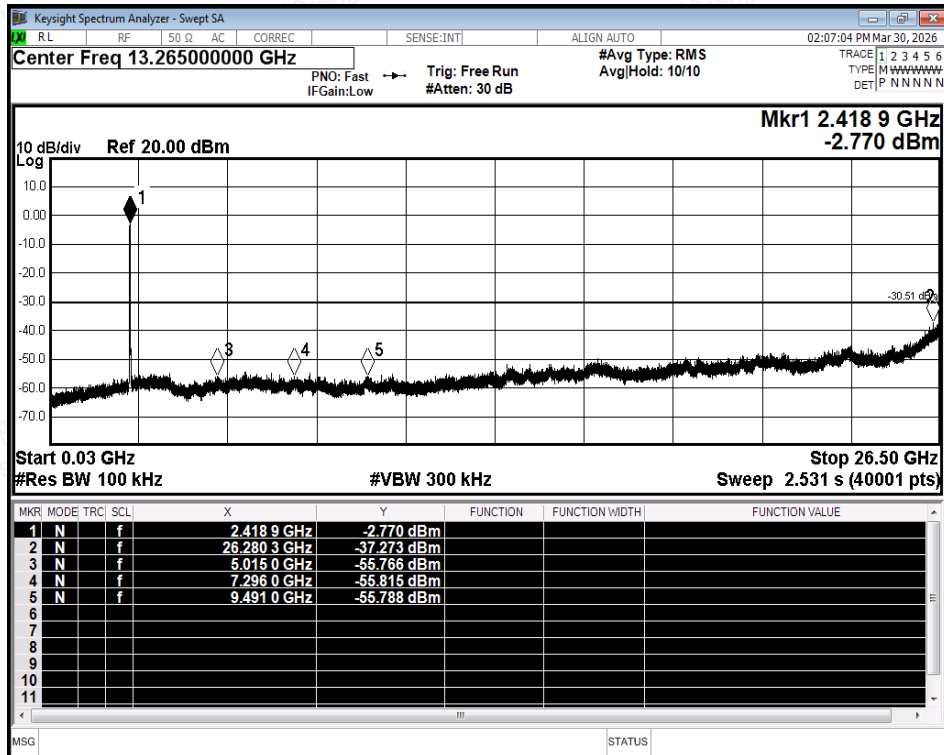
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant2 Emission

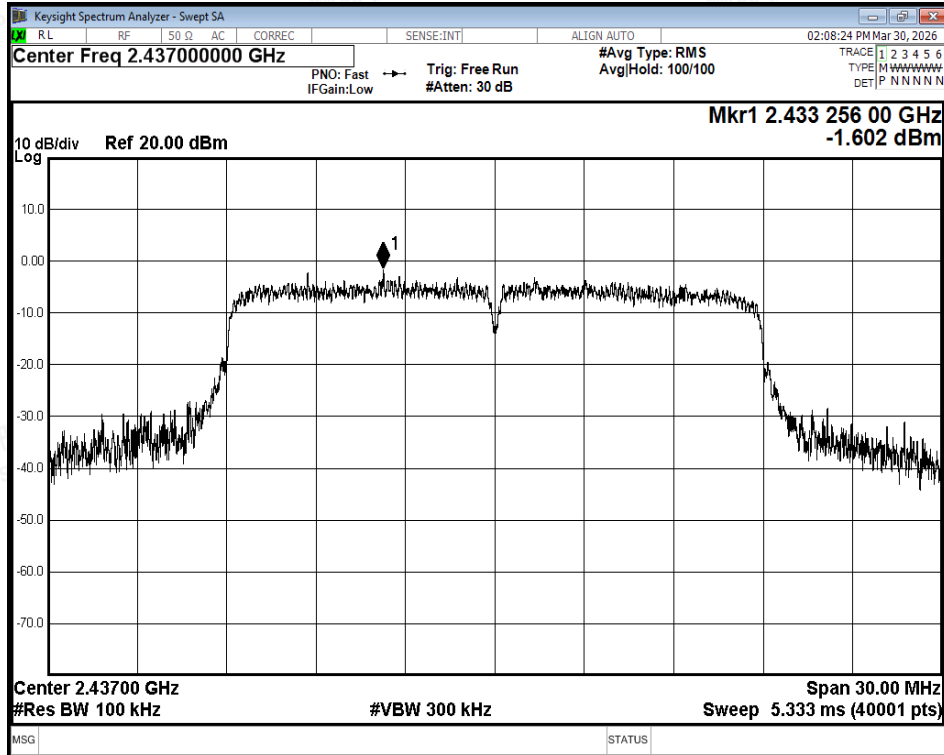


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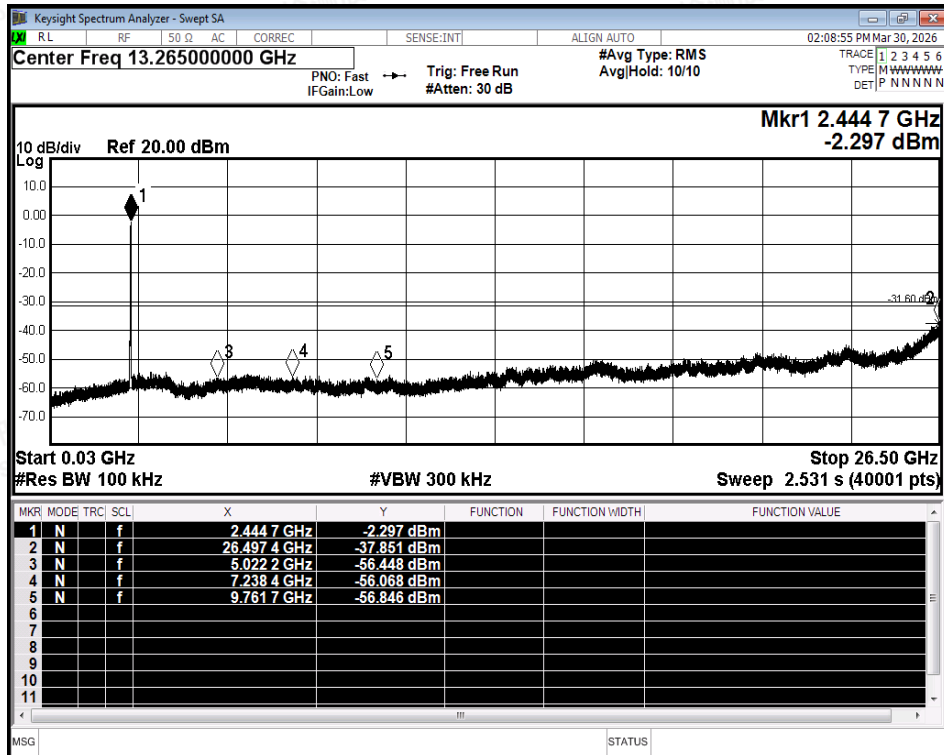
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Tx. Spurious NVNT n20 2437MHz Ant2 Ref



Tx. Spurious NVNT n20 2437MHz Ant2 Emission

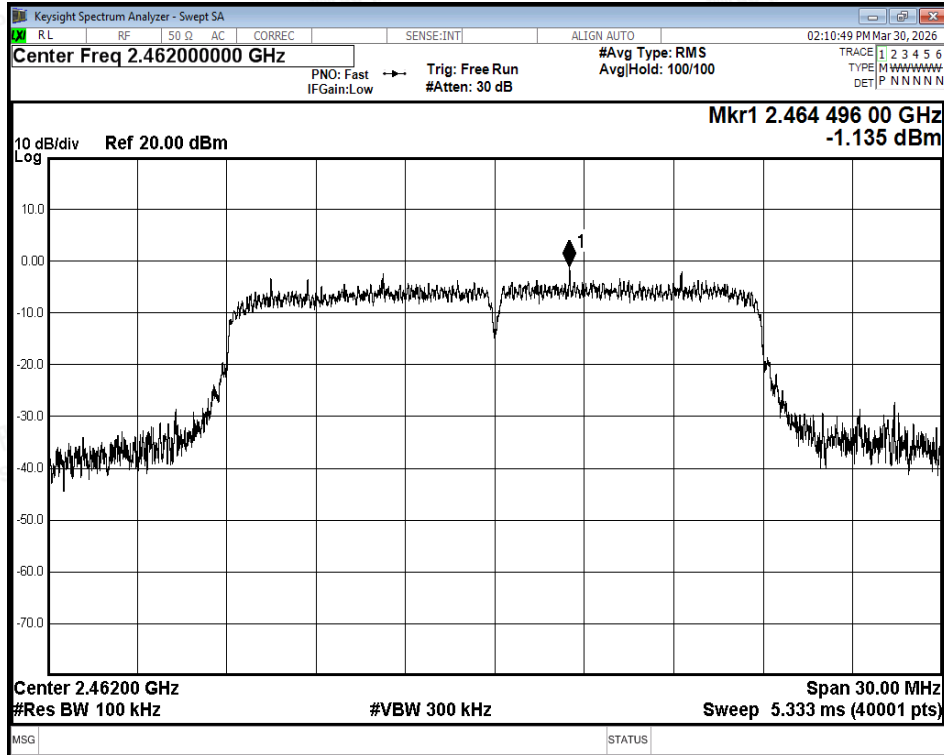


Shenzhen LCS Compliance Testing Laboratory Ltd.

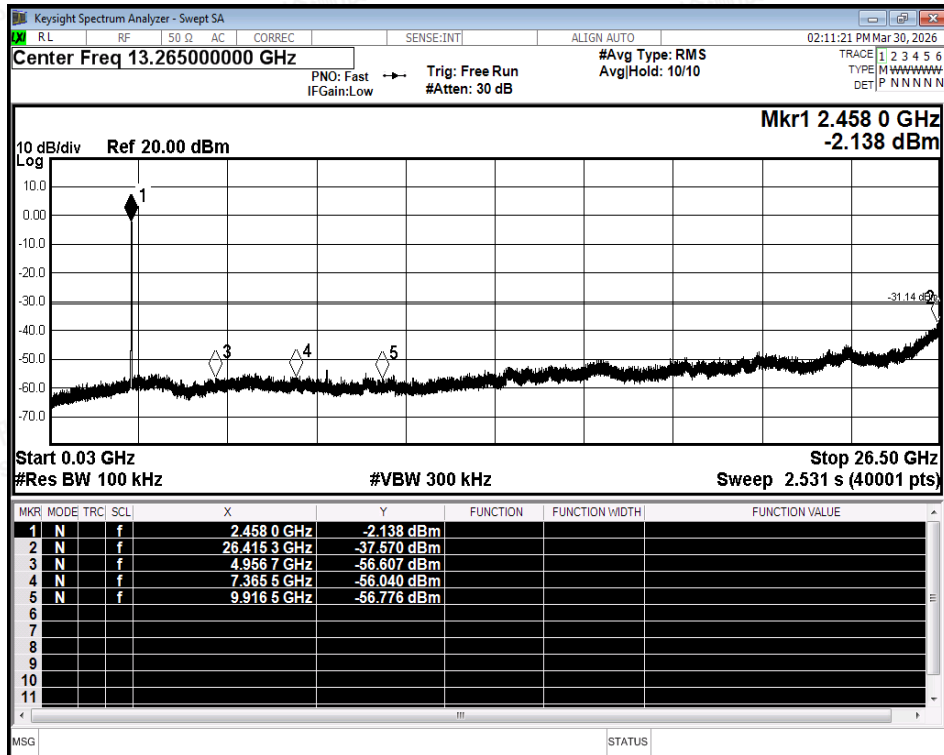
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Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission

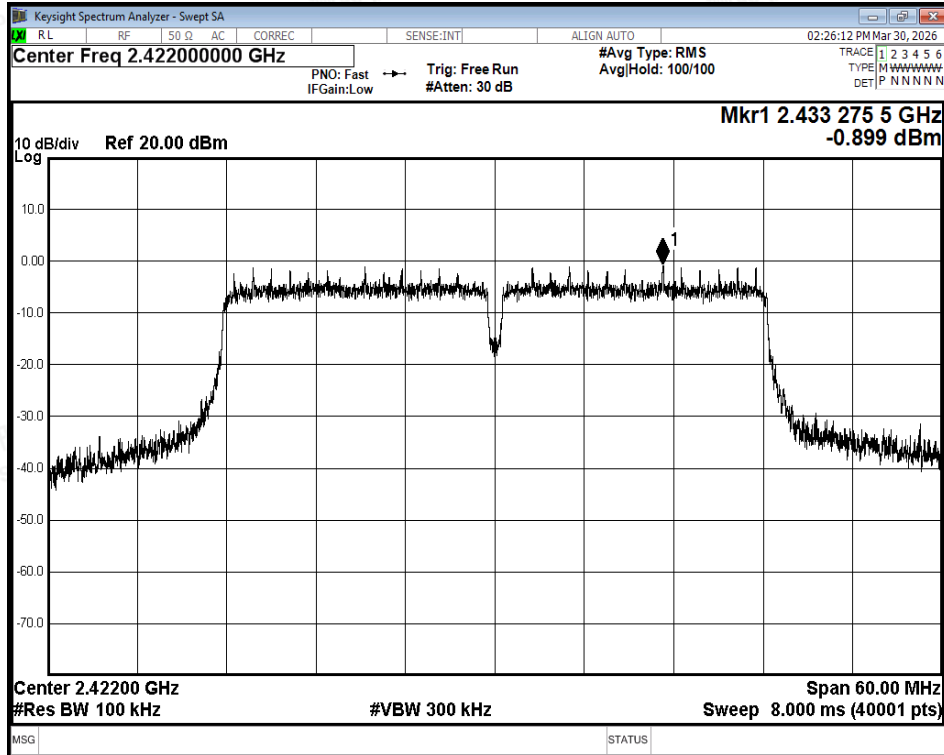


Shenzhen LCS Compliance Testing Laboratory Ltd.

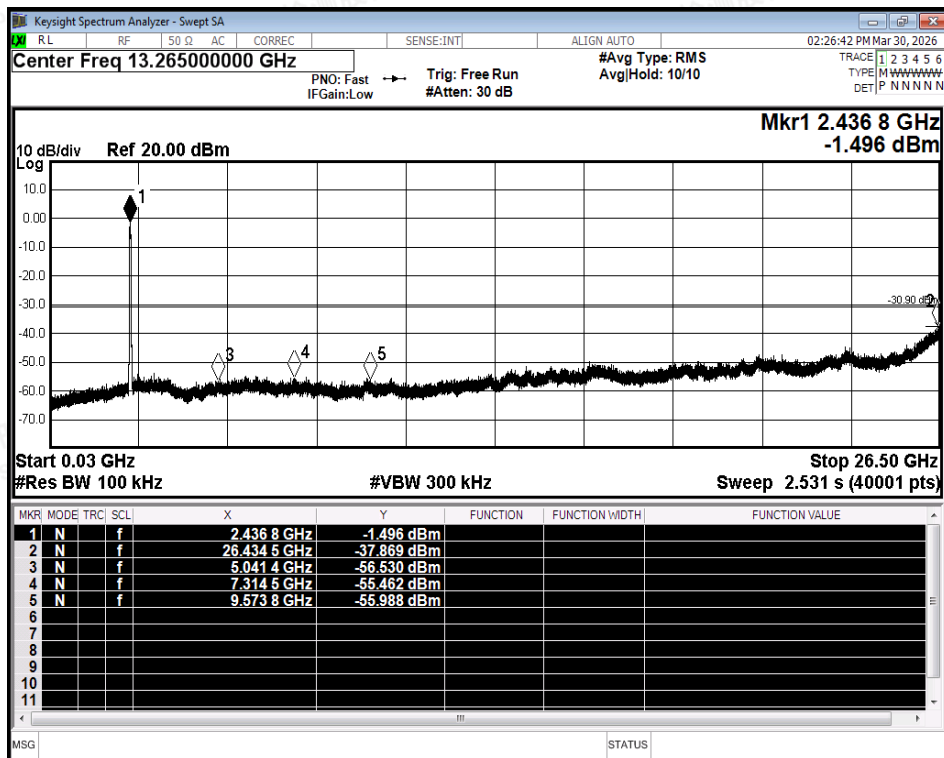
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2422MHz Ant2 Ref



Tx. Spurious NVNT n40 2422MHz Ant2 Emission

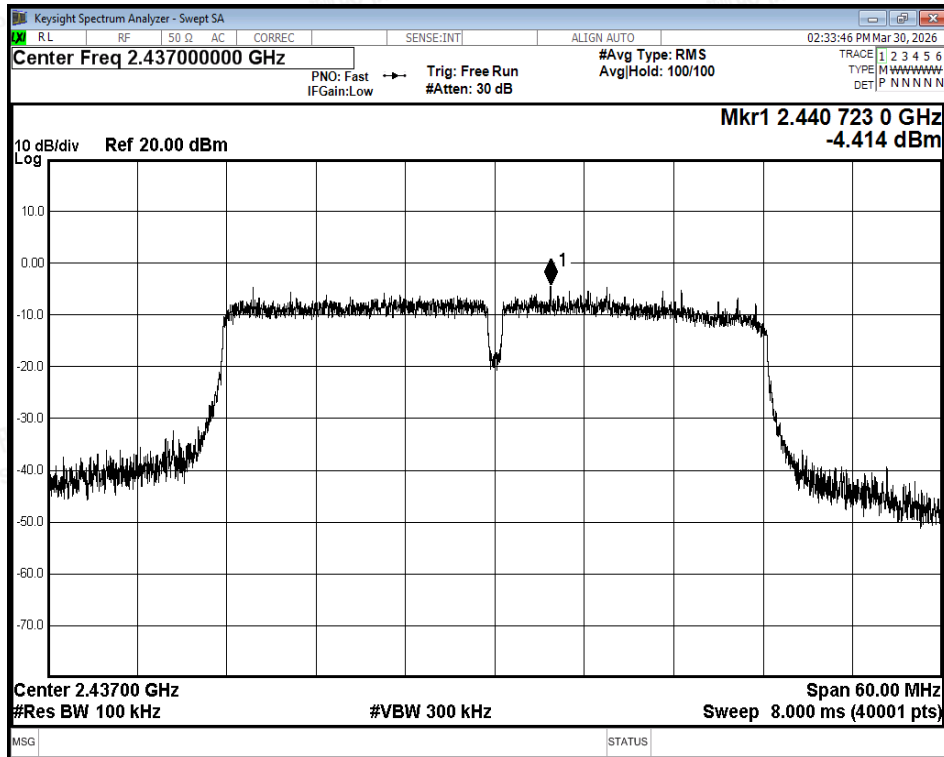


Shenzhen LCS Compliance Testing Laboratory Ltd.

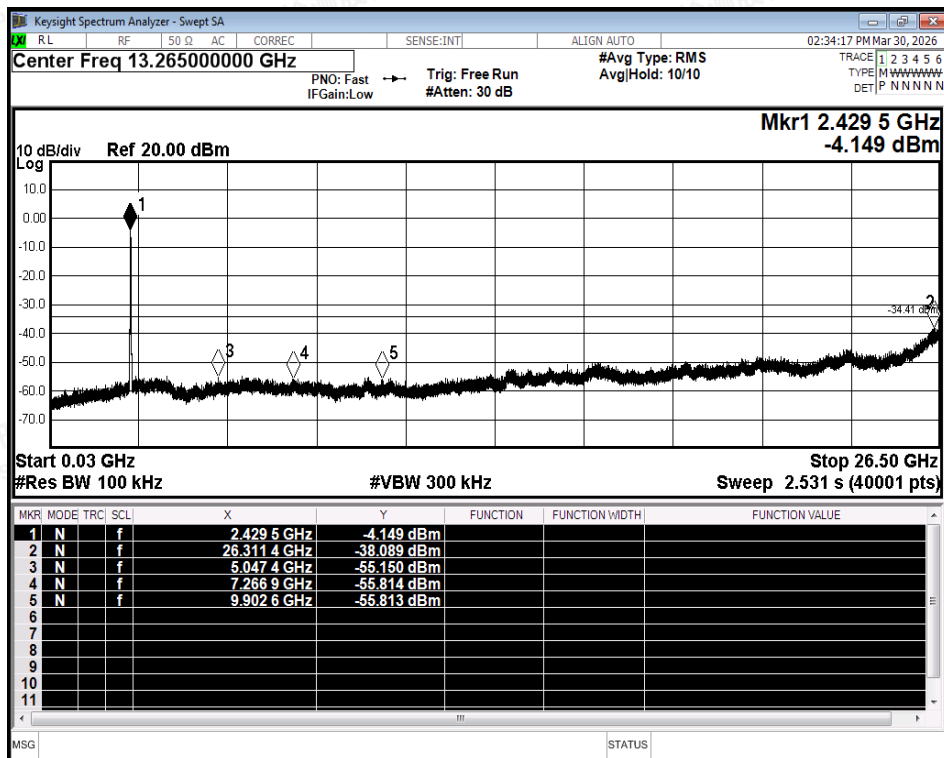
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT n40 2437MHz Ant2 Ref



Tx. Spurious NVNT n40 2437MHz Ant2 Emission

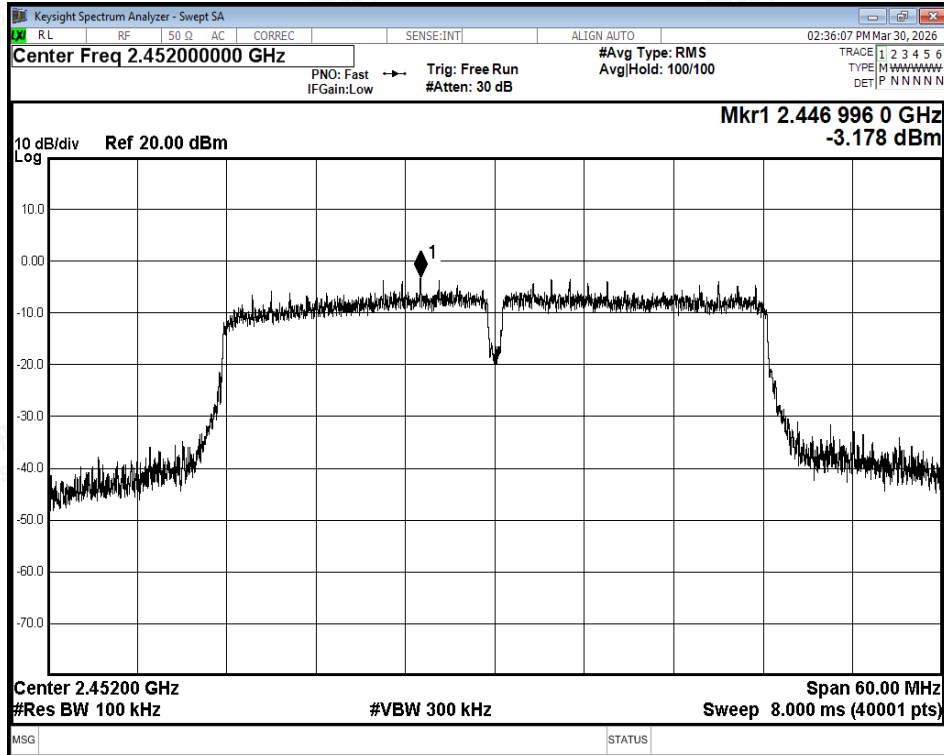


Shenzhen LCS Compliance Testing Laboratory Ltd.

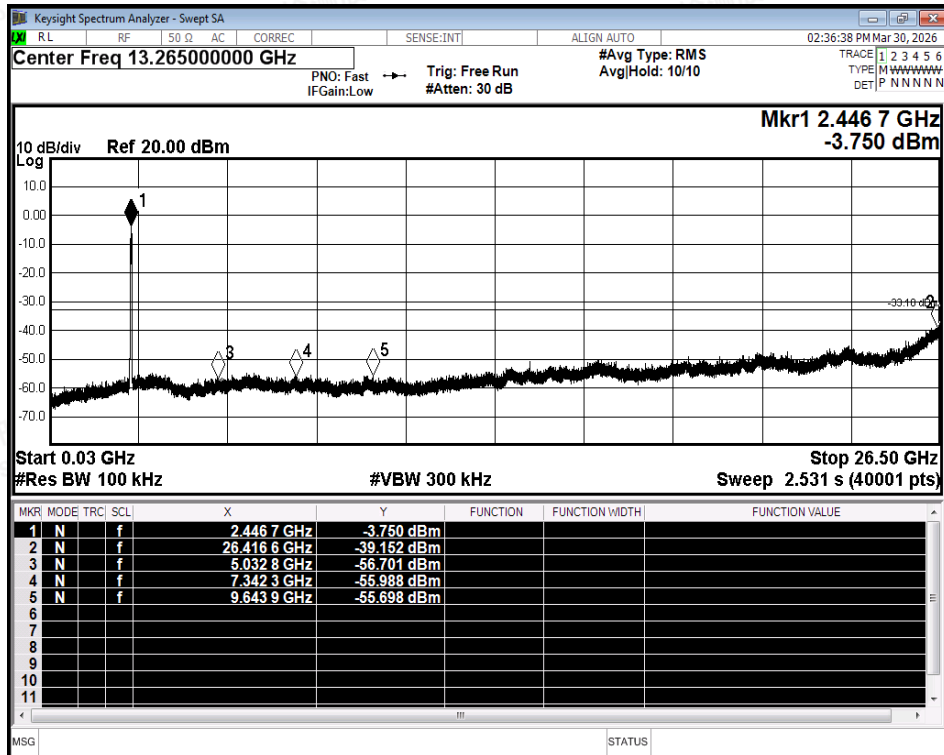
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Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



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C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant2	99.72	0.01	0
NVNT	b	2437	Ant2	99.73	0.01	0
NVNT	b	2462	Ant2	99.73	0.01	0
NVNT	g	2412	Ant2	97.75	0.1	0.37
NVNT	g	2437	Ant2	97.75	0.1	0.37
NVNT	g	2462	Ant2	97.75	0.1	0.37
NVNT	n20	2412	Ant2	97.25	0.12	0.44
NVNT	n20	2437	Ant2	97.25	0.12	0.44
NVNT	n20	2462	Ant2	97.25	0.12	0.44
NVNT	n40	2422	Ant2	94.71	0.24	0.9
NVNT	n40	2437	Ant2	94.7	0.24	0.9
NVNT	n40	2452	Ant2	94.71	0.24	0.9

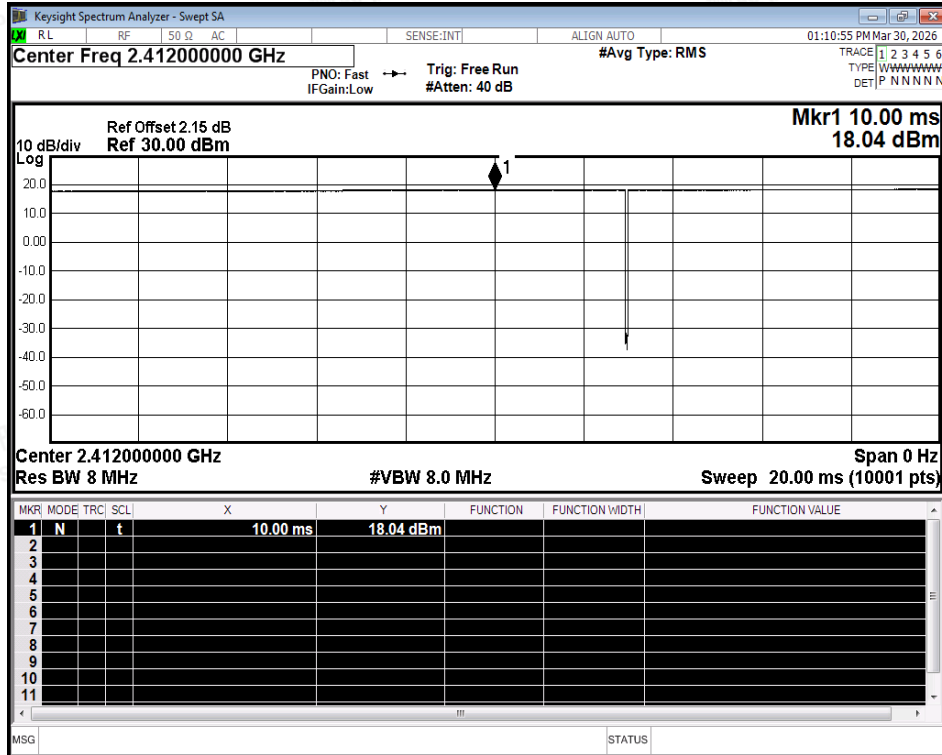


Shenzhen LCS Compliance Testing Laboratory Ltd.

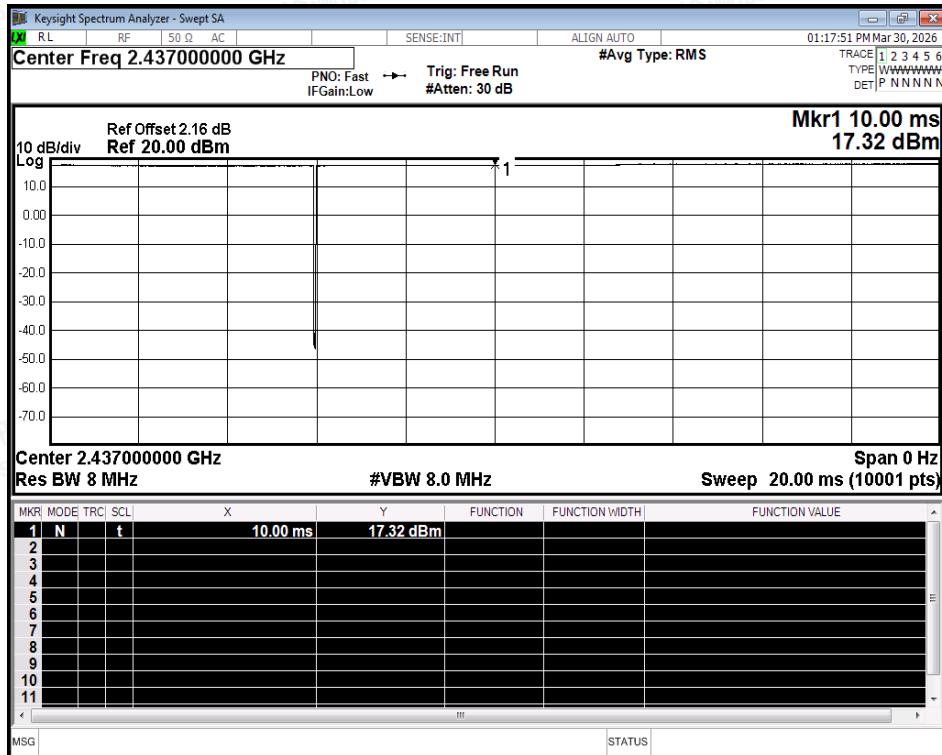
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT b 2412MHz Ant2



Duty Cycle NVNT b 2437MHz Ant2

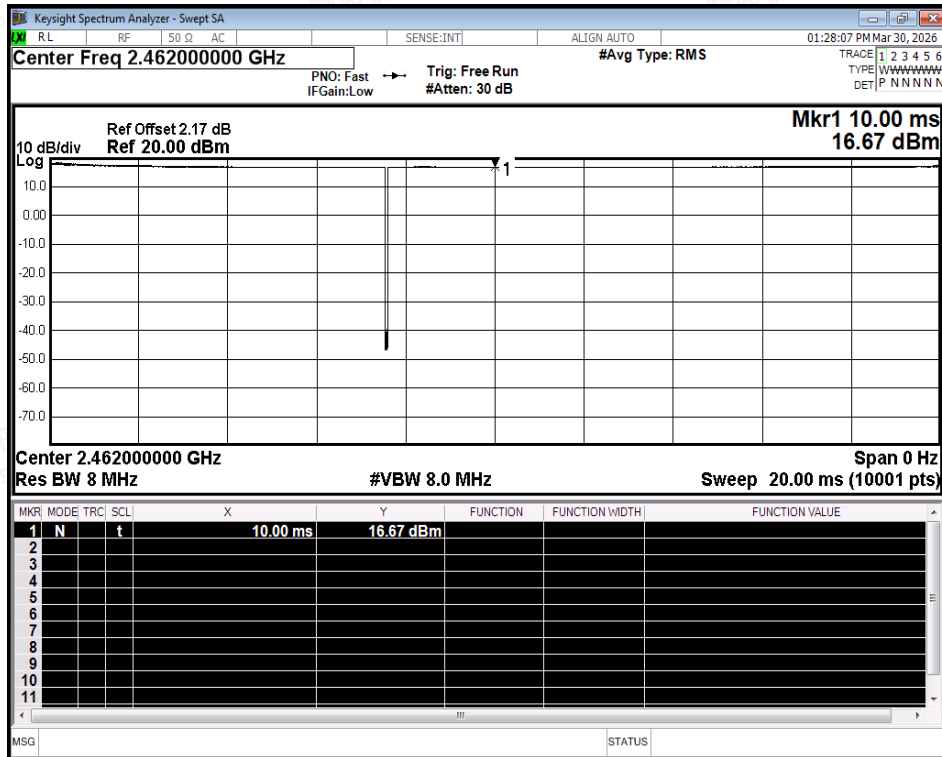


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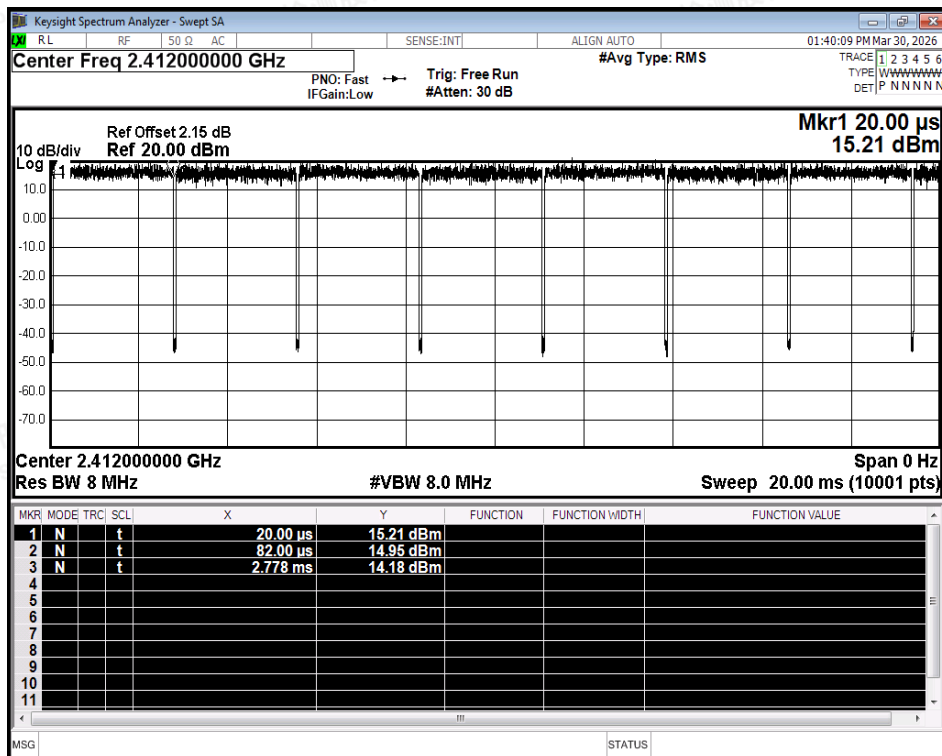
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT b 2462MHz Ant2



Duty Cycle NVNT g 2412MHz Ant2

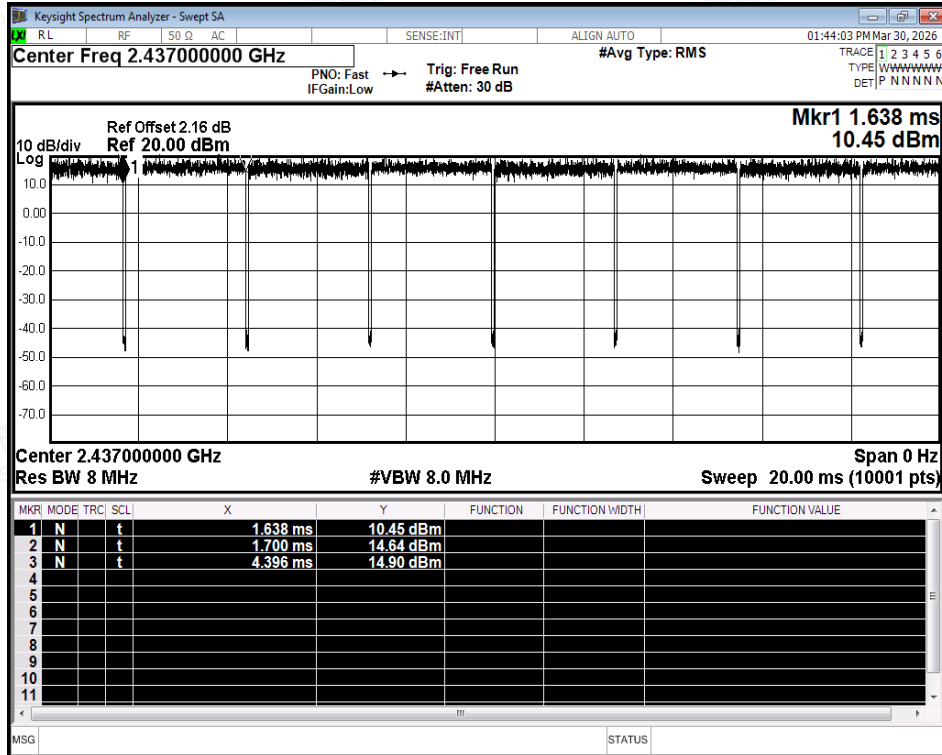


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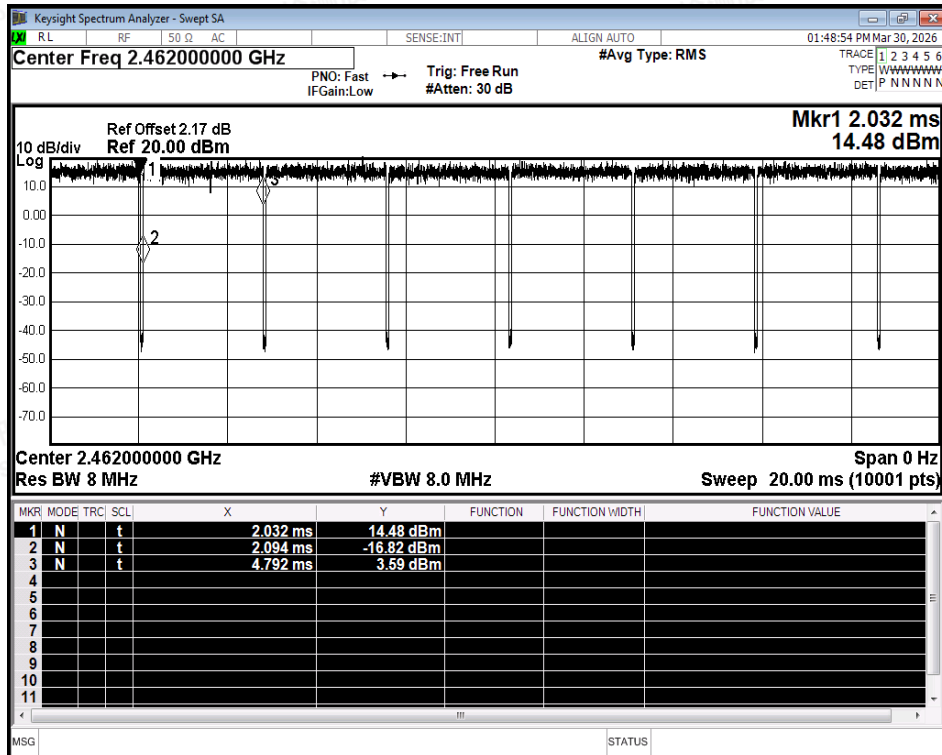
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Duty Cycle NVNT g 2437MHz Ant2



Duty Cycle NVNT g 2462MHz Ant2

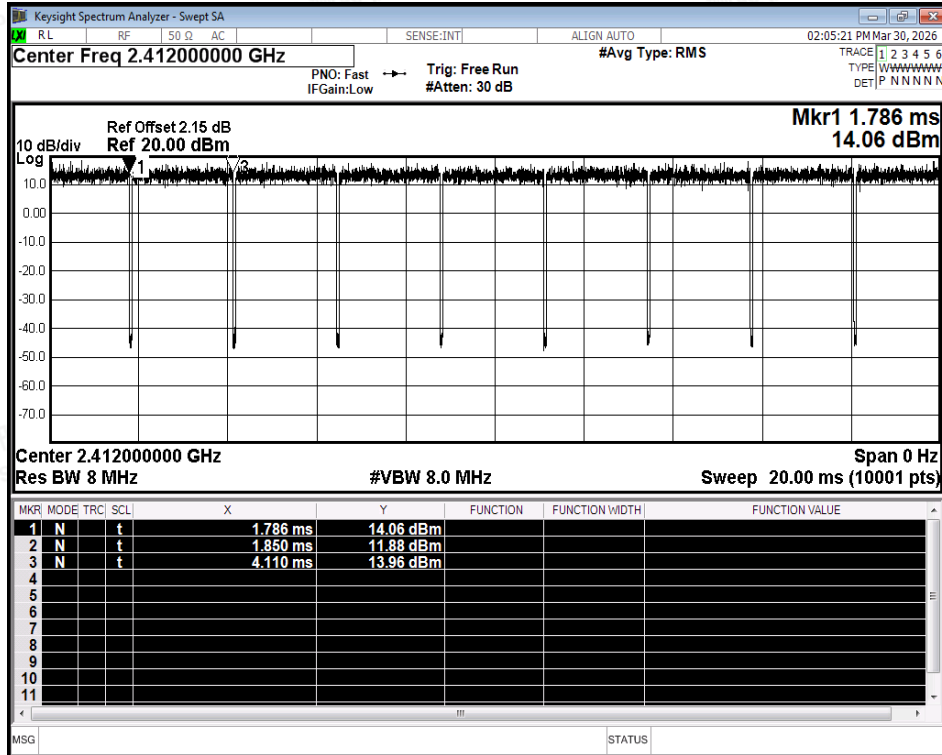


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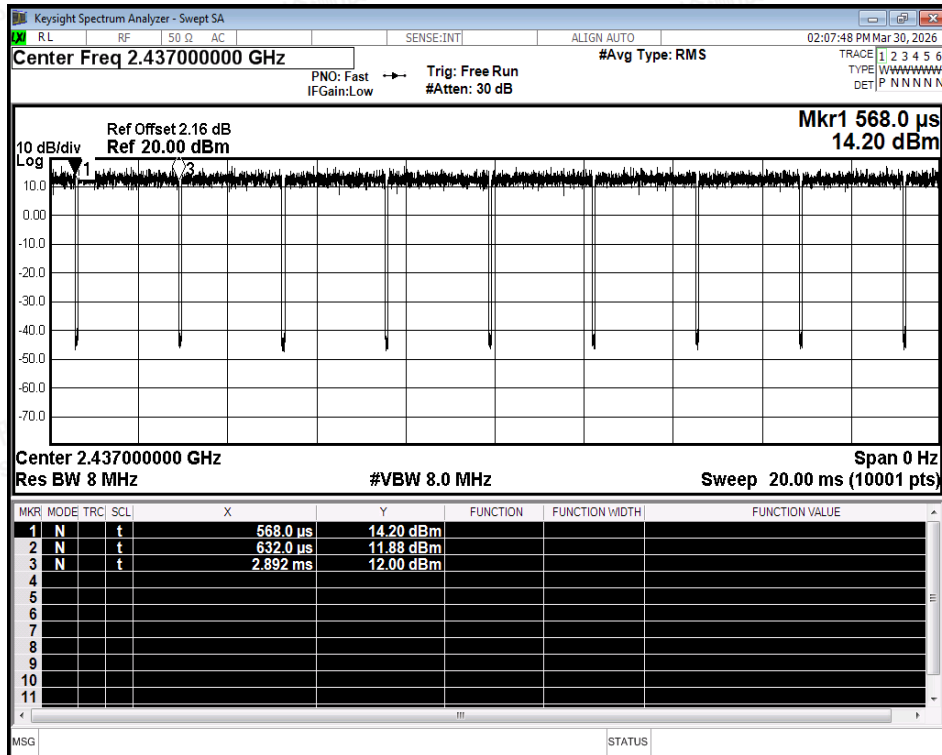
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2412MHz Ant2



Duty Cycle NVNT n20 2437MHz Ant2

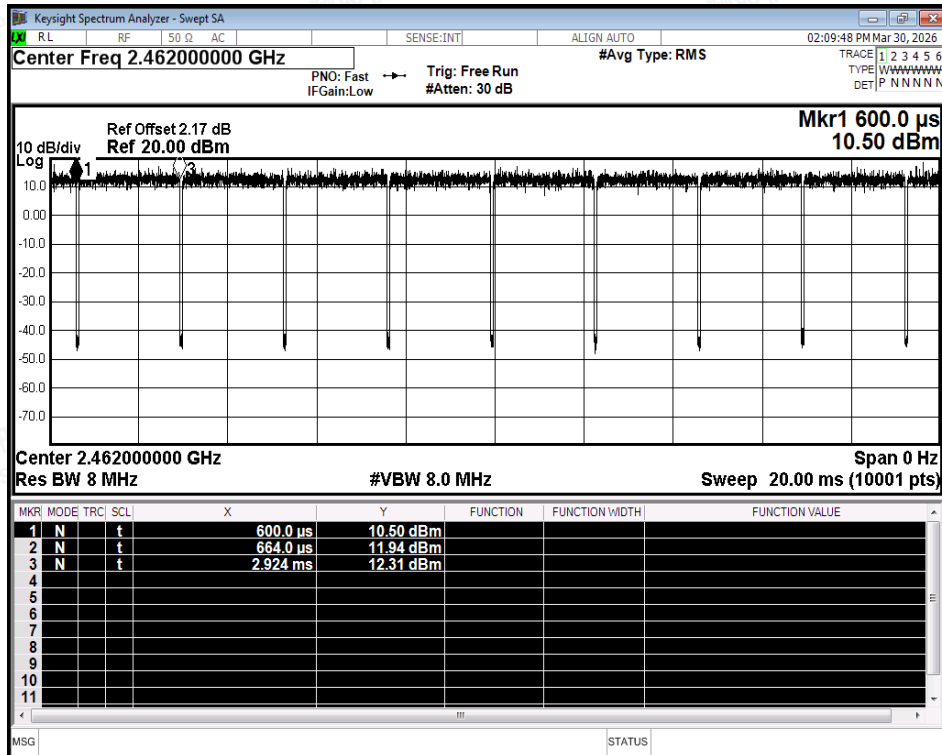


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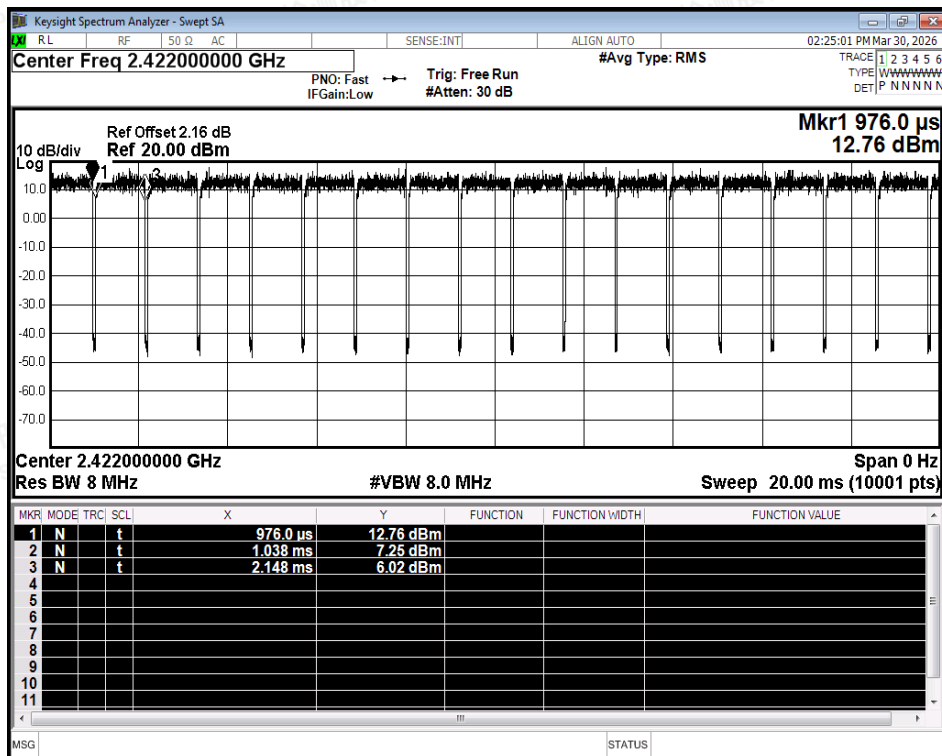
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2462MHz Ant2



Duty Cycle NVNT n40 2422MHz Ant2

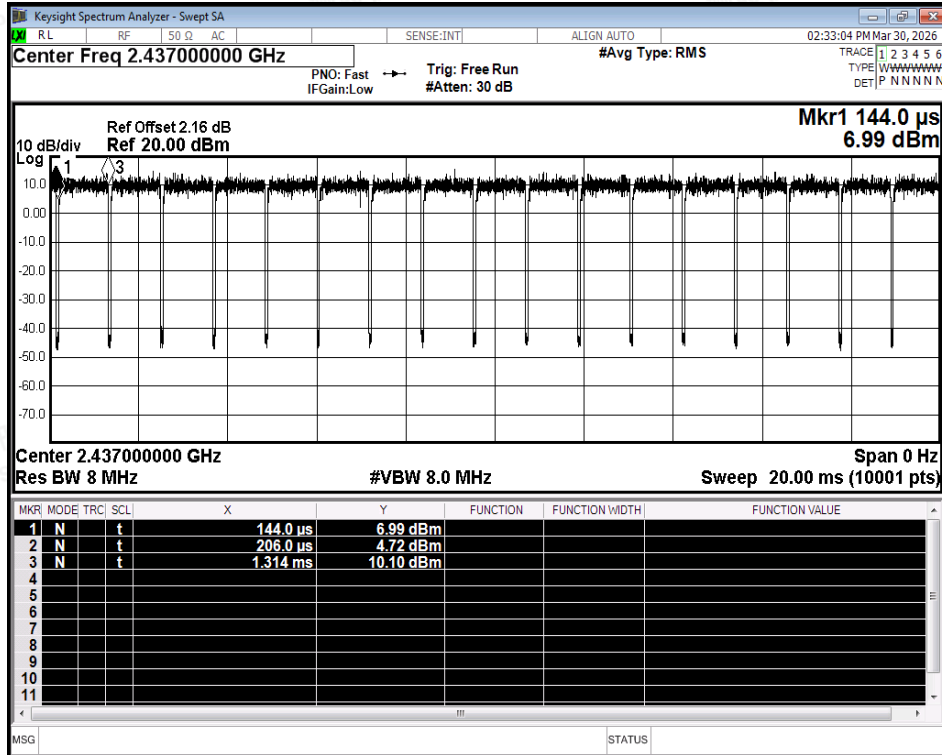


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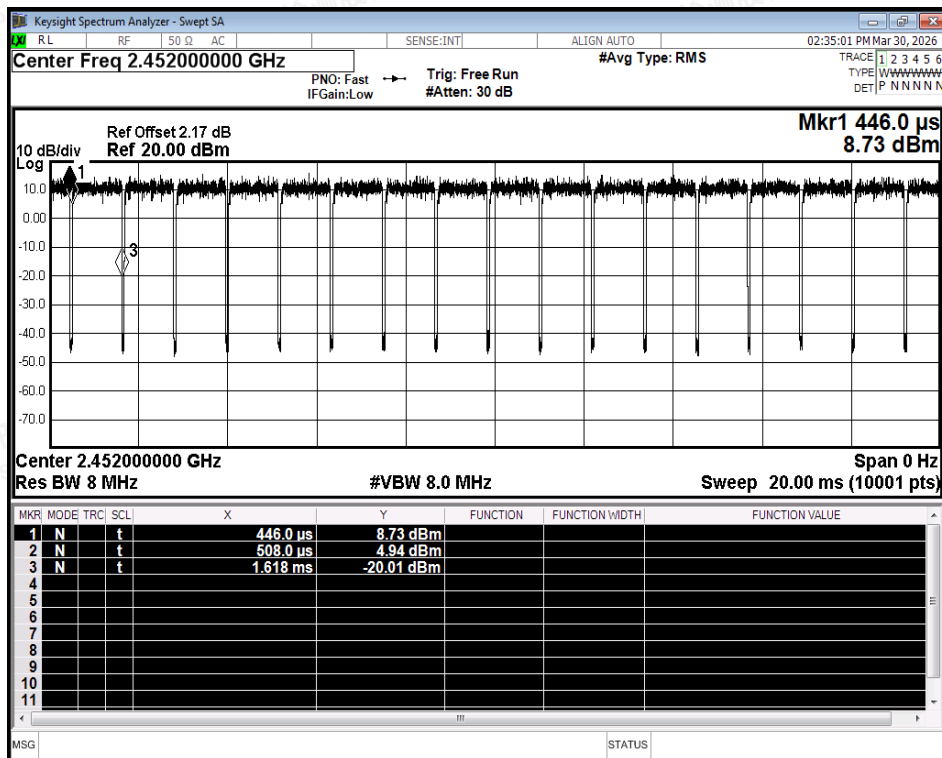
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n40 2437MHz Ant2



Duty Cycle NVNT n40 2452MHz Ant2



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C.7 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	Ant2	2310	-52.04	3.23	46.45	Peak	74	Pass
NVNT	b	2412	Ant2	2310	-57.78	3.23	40.71	Average	54	Pass
NVNT	b	2412	Ant2	2364.99	-47.69	3.23	50.8	Peak	74	Pass
NVNT	b	2412	Ant2	2389.443	-56	3.23	42.49	Average	54	Pass
NVNT	b	2412	Ant2	2390	-49.17	3.23	49.32	Peak	74	Pass
NVNT	b	2412	Ant2	2390	-56.24	3.23	42.25	Average	54	Pass
NVNT	b	2462	Ant2	2483.5	-48.37	3.23	50.12	Peak	74	Pass
NVNT	b	2462	Ant2	2483.5	-54.9	3.23	43.59	Average	54	Pass
NVNT	b	2462	Ant2	2484.736	-45.96	3.23	52.53	Peak	74	Pass
NVNT	b	2462	Ant2	2484.736	-53.85	3.23	44.64	Average	54	Pass
NVNT	b	2462	Ant2	2500	-49.59	3.23	48.9	Peak	74	Pass
NVNT	b	2462	Ant2	2500	-57.67	3.23	40.82	Average	54	Pass
NVNT	g	2412	Ant2	2310	-49.43	3.23	49.06	Peak	74	Pass
NVNT	g	2412	Ant2	2310	-57.45	3.23	41.04	Average	54	Pass
NVNT	g	2412	Ant2	2389.677	-36.16	3.23	62.33	Peak	74	Pass
NVNT	g	2412	Ant2	2389.911	-48.68	3.23	49.81	Average	54	Pass
NVNT	g	2412	Ant2	2390	-37.82	3.23	60.67	Peak	74	Pass
NVNT	g	2412	Ant2	2390	-48.53	3.23	49.96	Average	54	Pass
NVNT	g	2462	Ant2	2483.5	-36.84	3.23	61.65	Peak	74	Pass
NVNT	g	2462	Ant2	2483.5	-47.55	3.23	50.94	Average	54	Pass
NVNT	g	2462	Ant2	2483.729	-30.59	3.23	67.9	Peak	74	Pass
NVNT	g	2462	Ant2	2483.729	-47.35	3.23	51.14	Average	54	Pass
NVNT	g	2462	Ant2	2500	-49.76	3.23	48.73	Peak	74	Pass
NVNT	g	2462	Ant2	2500	-57.39	3.23	41.1	Average	54	Pass
NVNT	n20	2412	Ant2	2310	-49.12	3.23	49.37	Peak	74	Pass
NVNT	n20	2412	Ant2	2310	-57.42	3.23	41.07	Average	54	Pass
NVNT	n20	2412	Ant2	2389.794	-34.08	3.23	64.41	Peak	74	Pass
NVNT	n20	2412	Ant2	2389.911	-49.54	3.23	48.95	Average	54	Pass
NVNT	n20	2412	Ant2	2390	-38.5	3.23	59.99	Peak	74	Pass
NVNT	n20	2412	Ant2	2390	-49.29	3.23	49.2	Average	54	Pass
NVNT	n20	2462	Ant2	2483.5	-41.48	3.23	57.01	Peak	74	Pass
NVNT	n20	2462	Ant2	2483.5	-52.36	3.23	46.13	Average	54	Pass
NVNT	n20	2462	Ant2	2484.577	-36.62	3.23	61.87	Peak	74	Pass
NVNT	n20	2462	Ant2	2483.57	-51.96	3.23	46.53	Average	54	Pass
NVNT	n20	2462	Ant2	2500	-50.01	3.23	48.48	Peak	74	Pass
NVNT	n20	2462	Ant2	2500	-57.61	3.23	40.88	Average	54	Pass
NVNT	n40	2422	Ant2	2310	-51.35	3.23	47.14	Peak	74	Pass



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NVNT	n40	2422	Ant2	2310	-57.26	3.23	41.23	Average	54	Pass
NVNT	n40	2422	Ant2	2389.236	-37.38	3.23	61.11	Peak	74	Pass
NVNT	n40	2422	Ant2	2389.946	-48.42	3.23	50.07	Average	54	Pass
NVNT	n40	2422	Ant2	2390	-37.85	3.23	60.64	Peak	74	Pass
NVNT	n40	2422	Ant2	2390	-48.02	3.23	50.47	Average	54	Pass
NVNT	n40	2452	Ant2	2483.5	-36.19	3.23	62.3	Peak	74	Pass
NVNT	n40	2452	Ant2	2483.5	-50.46	3.23	48.03	Average	54	Pass
NVNT	n40	2452	Ant2	2484.322	-30.93	3.23	67.56	Peak	74	Pass
NVNT	n40	2452	Ant2	2483.698	-49.19	3.23	49.3	Average	54	Pass
NVNT	n40	2452	Ant2	2500	-50.2	3.23	48.29	Peak	74	Pass
NVNT	n40	2452	Ant2	2500	-57.43	3.23	41.06	Average	54	Pass

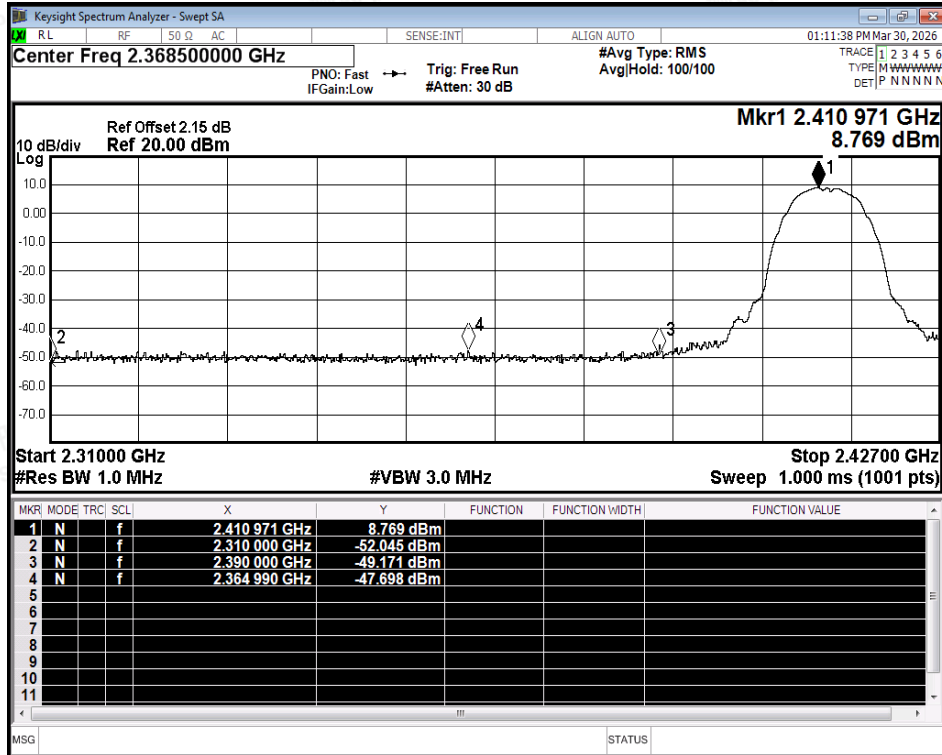


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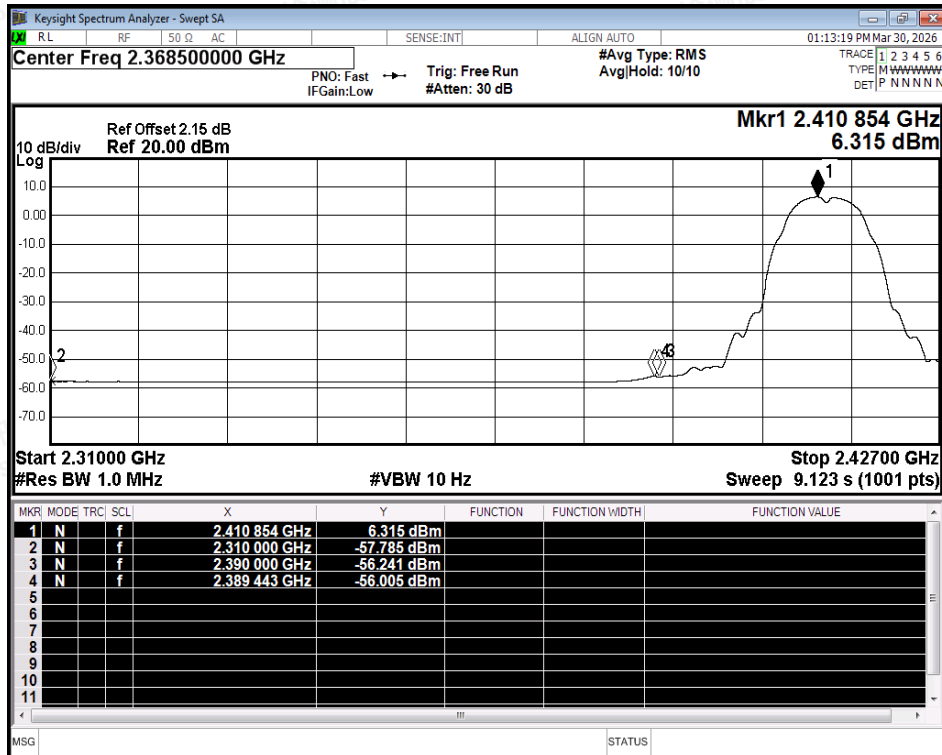
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Restrict Band NVNT b 2412MHz Ant2 Peak



Restrict Band NVNT b 2412MHz Ant2 Average

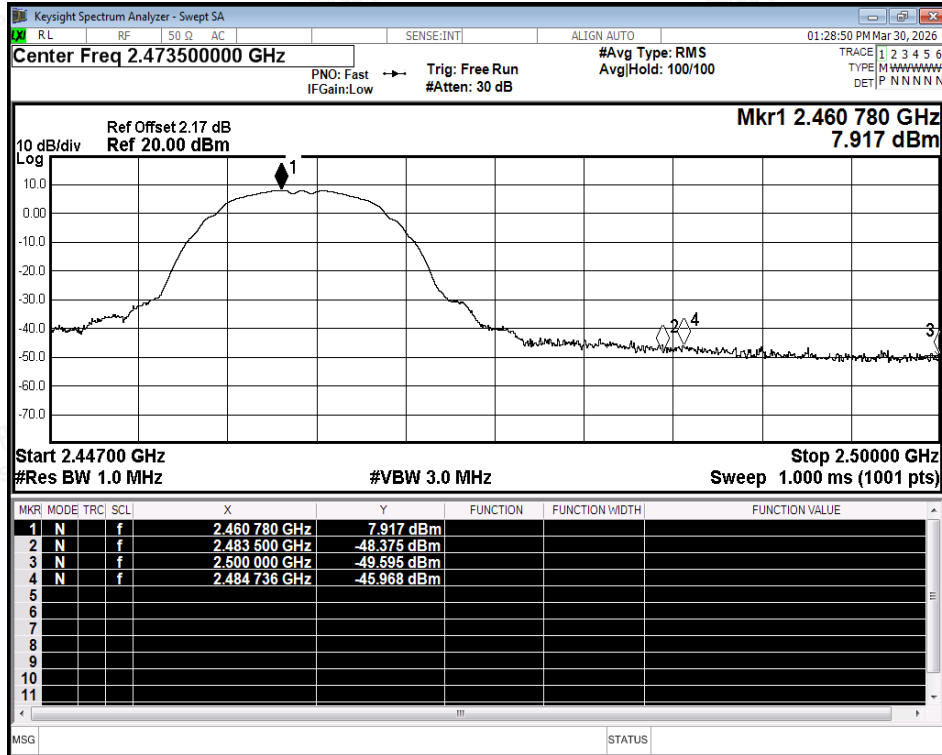


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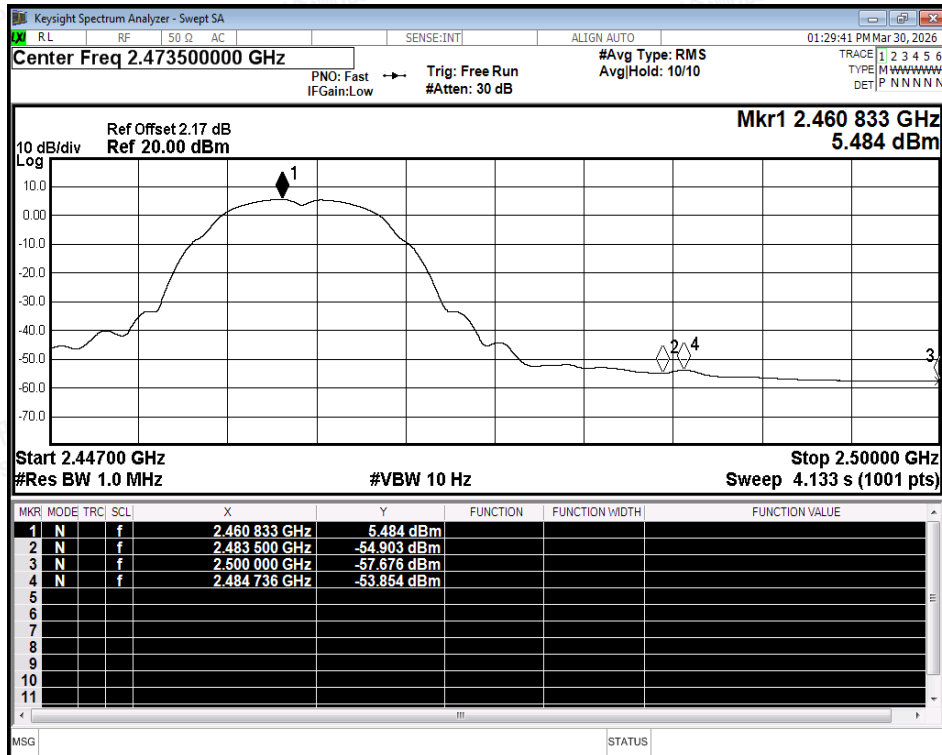
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Restrict Band NVNT b 2462MHz Ant2 Peak



Restrict Band NVNT b 2462MHz Ant2 Average

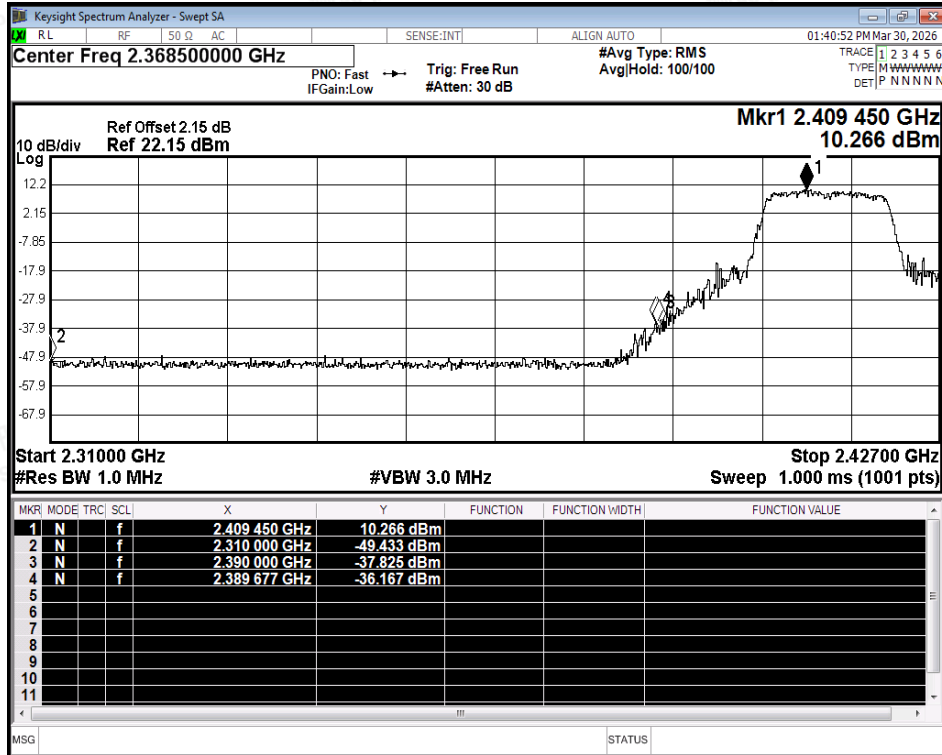


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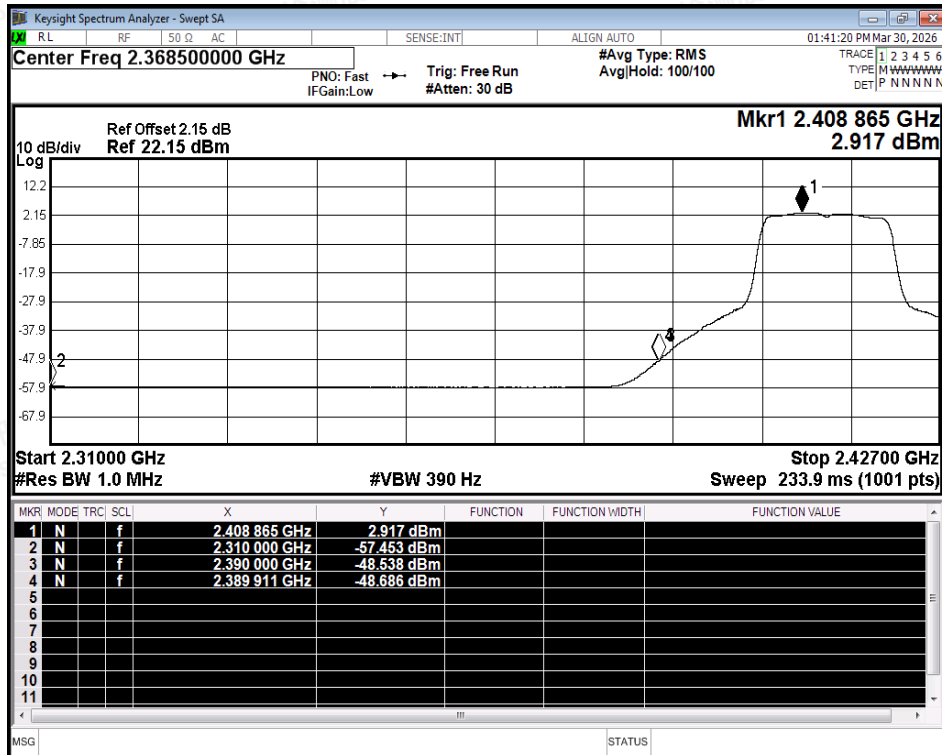
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Restrict Band NVNT g 2412MHz Ant2 Peak



Restrict Band NVNT g 2412MHz Ant2 Average

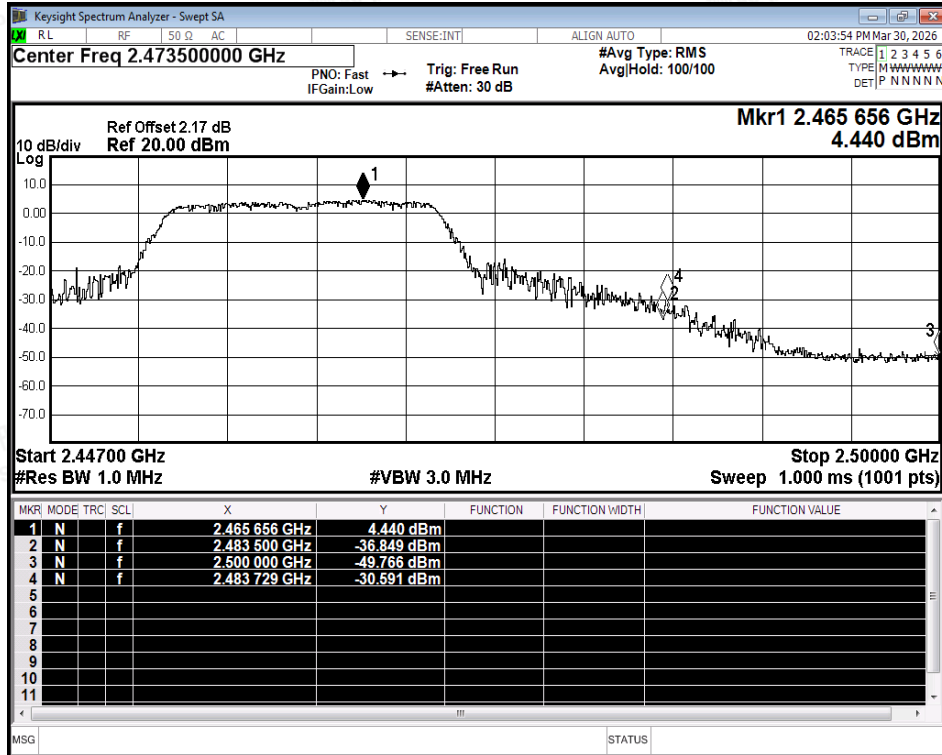


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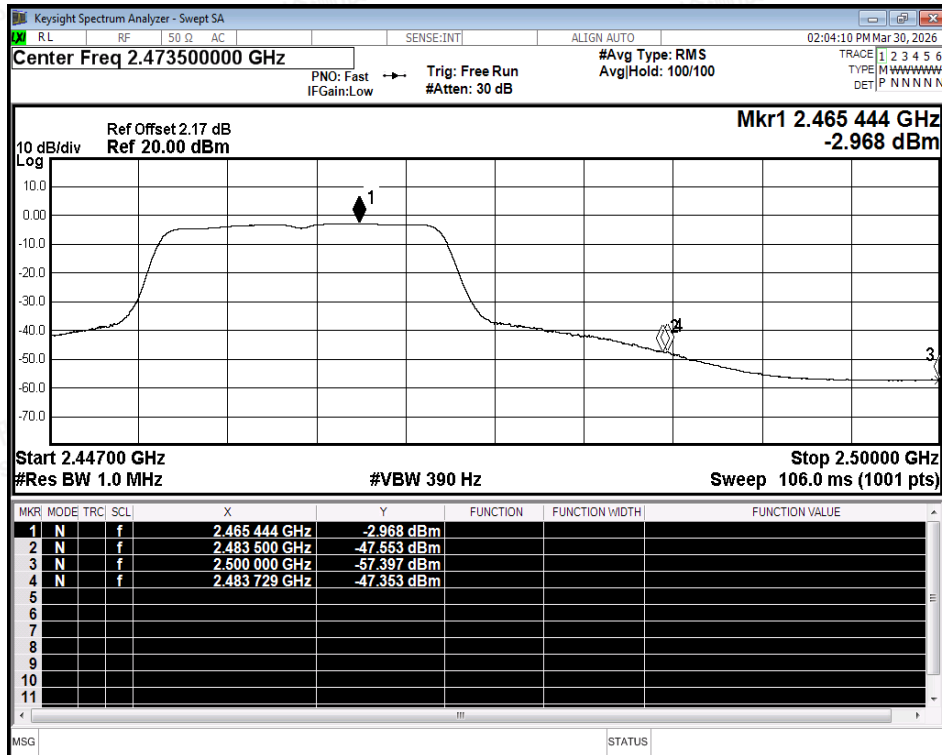
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Restrict Band NVNT g 2462MHz Ant2 Peak



Restrict Band NVNT g 2462MHz Ant2 Average

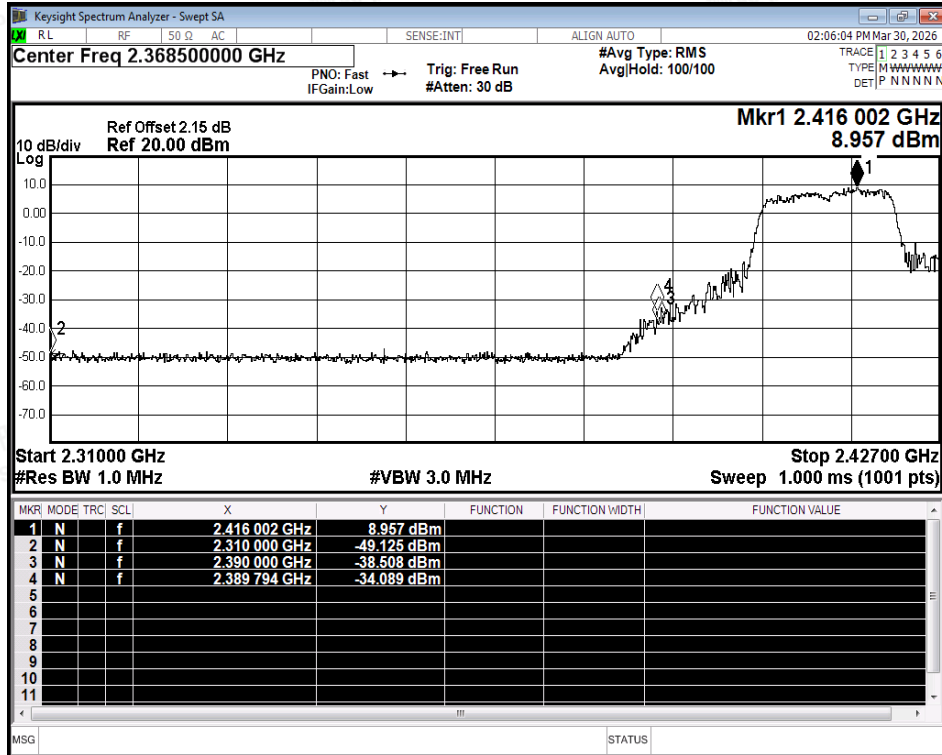


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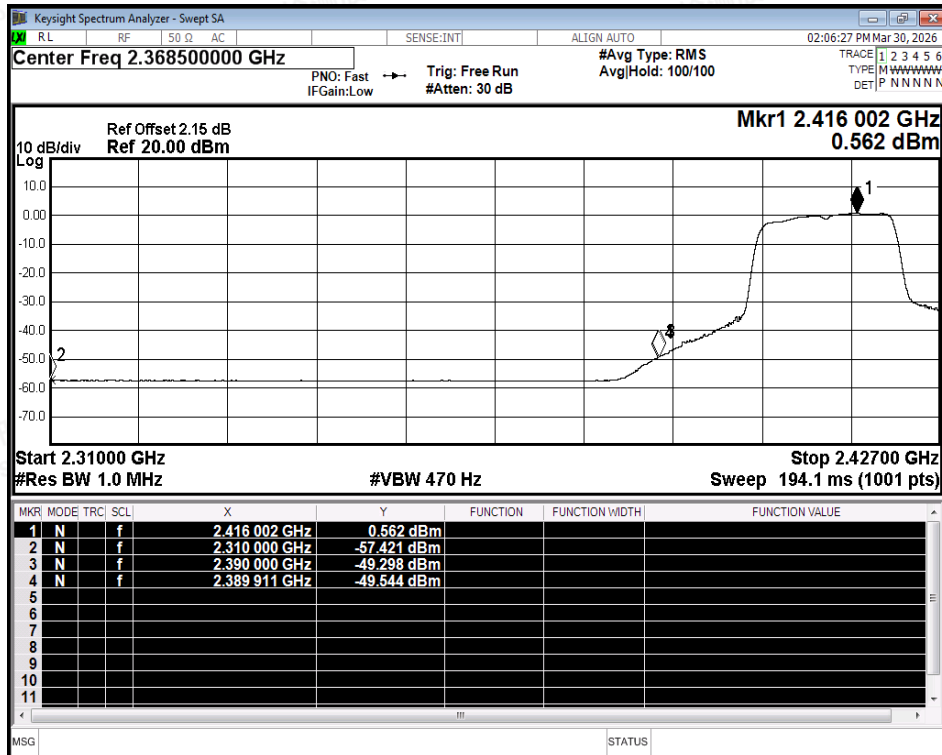
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Restrict Band NVNT n20 2412MHz Ant2 Peak



Restrict Band NVNT n20 2412MHz Ant2 Average

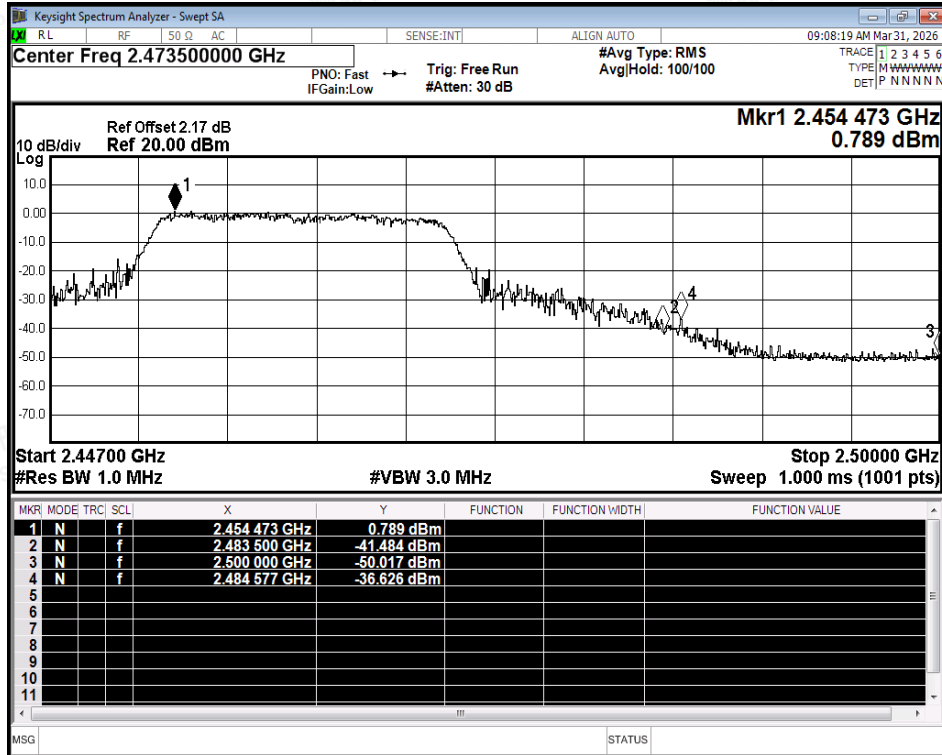


Shenzhen LCS Compliance Testing Laboratory Ltd.

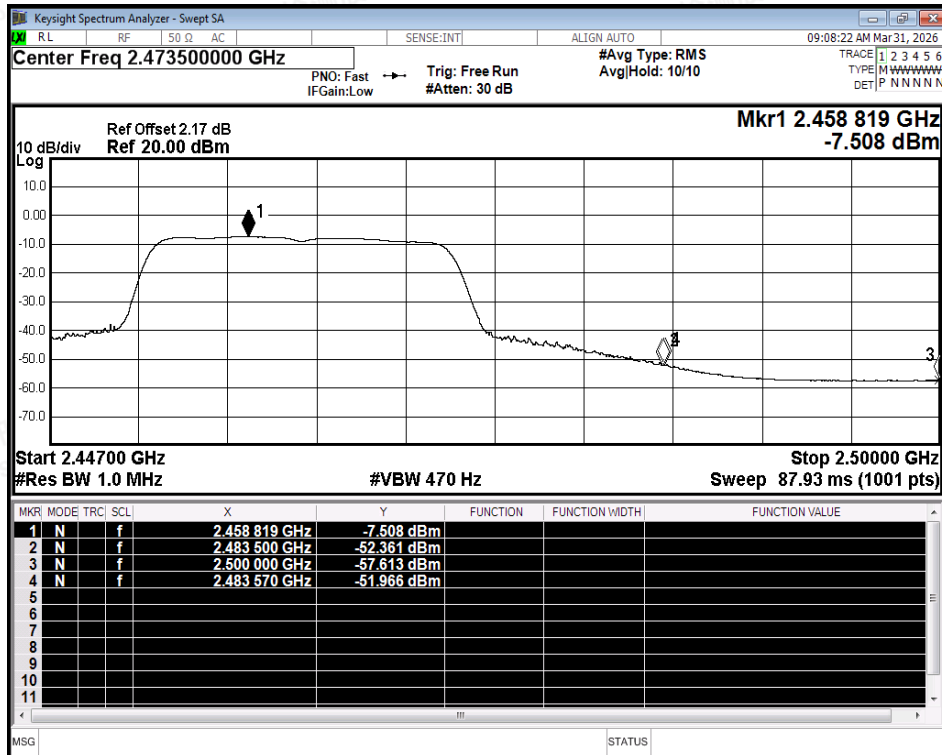
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n20 2462MHz Ant2 Peak



Restrict Band NVNT n20 2462MHz Ant2 Average

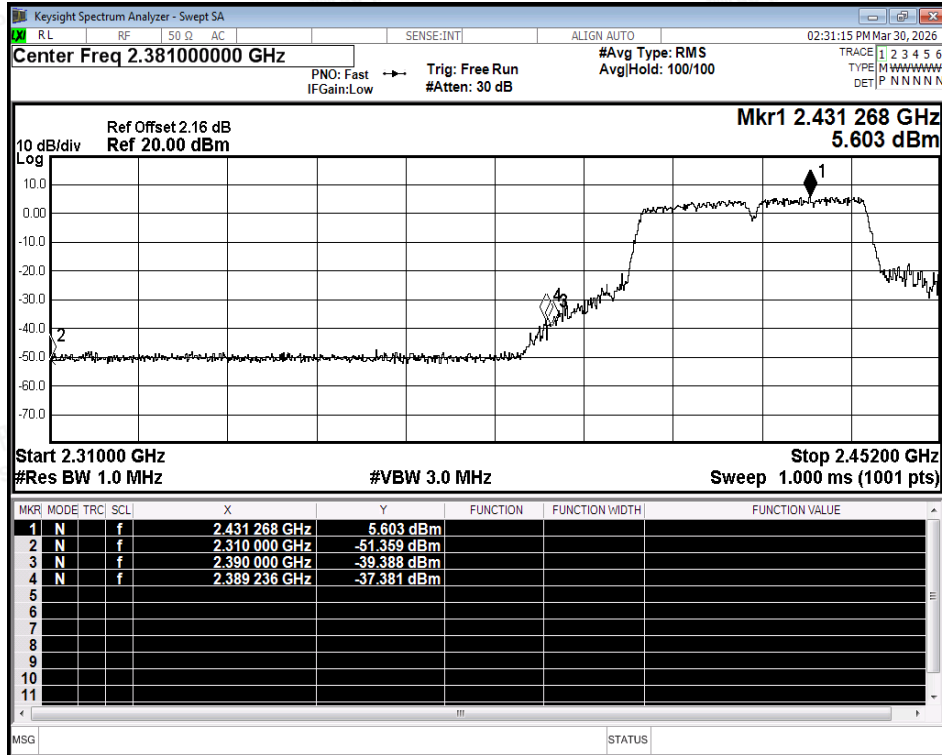


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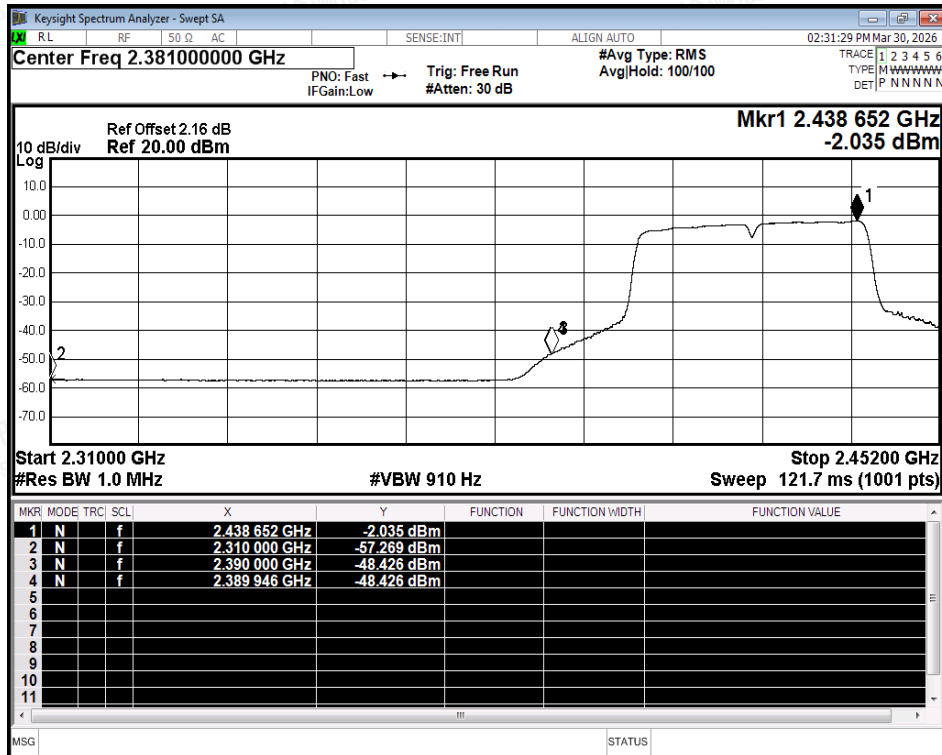
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Restrict Band NVNT n40 2422MHz Ant2 Peak



Restrict Band NVNT n40 2422MHz Ant2 Average

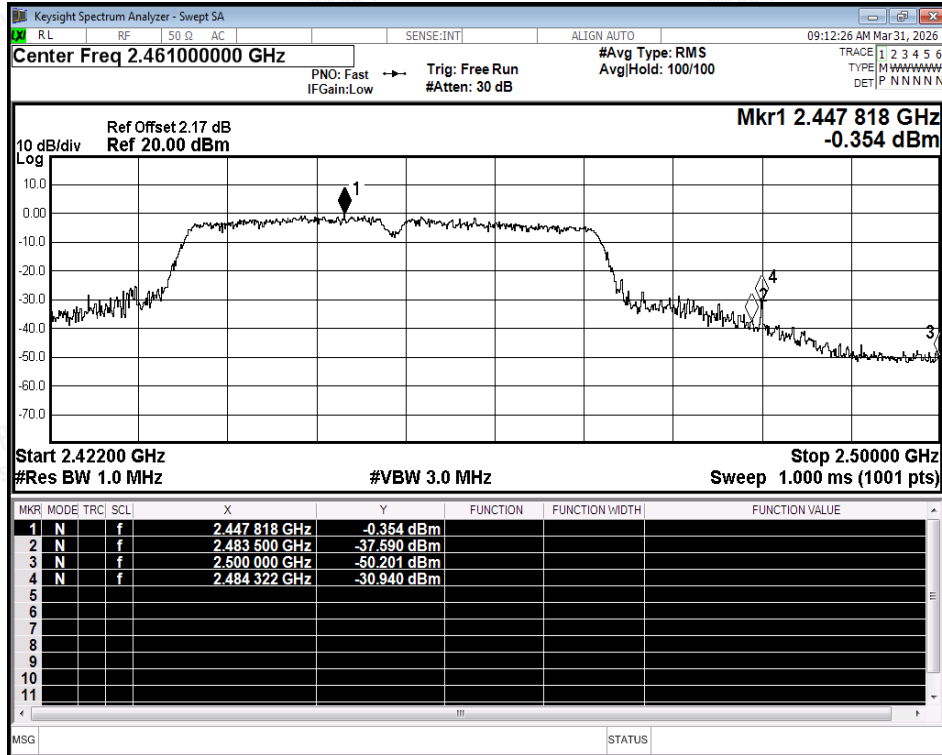


Shenzhen LCS Compliance Testing Laboratory Ltd.

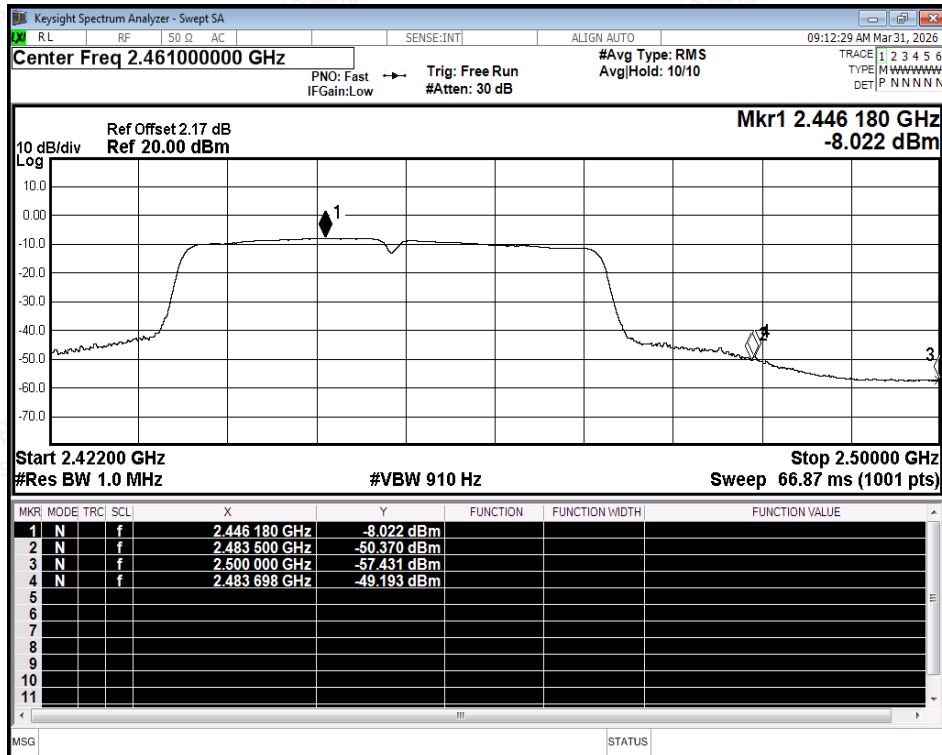
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n40 2452MHz Ant2 Peak



Restrict Band NVNT n40 2452MHz Ant2 Average



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