



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Car Dashcam

Test Model: ELITE9

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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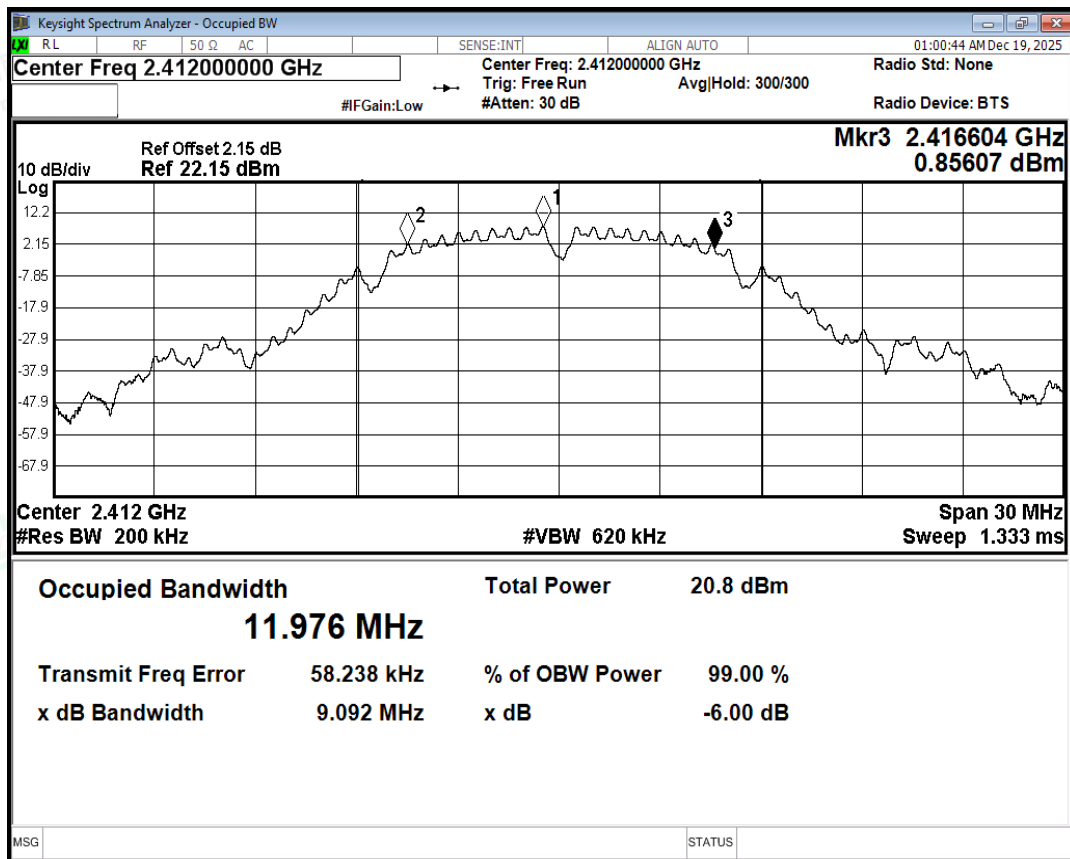
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.092	0.5	Pass
NVNT	b	2437	Ant1	9.107	0.5	Pass
NVNT	b	2462	Ant1	9.112	0.5	Pass
NVNT	g	2412	Ant1	16.34	0.5	Pass
NVNT	g	2437	Ant1	16.3	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n20	2412	Ant1	17.27	0.5	Pass
NVNT	n20	2437	Ant1	17.51	0.5	Pass
NVNT	n20	2462	Ant1	17.48	0.5	Pass
NVNT	n40	2422	Ant1	35.7	0.5	Pass
NVNT	n40	2437	Ant1	35.86	0.5	Pass
NVNT	n40	2452	Ant1	35.98	0.5	Pass

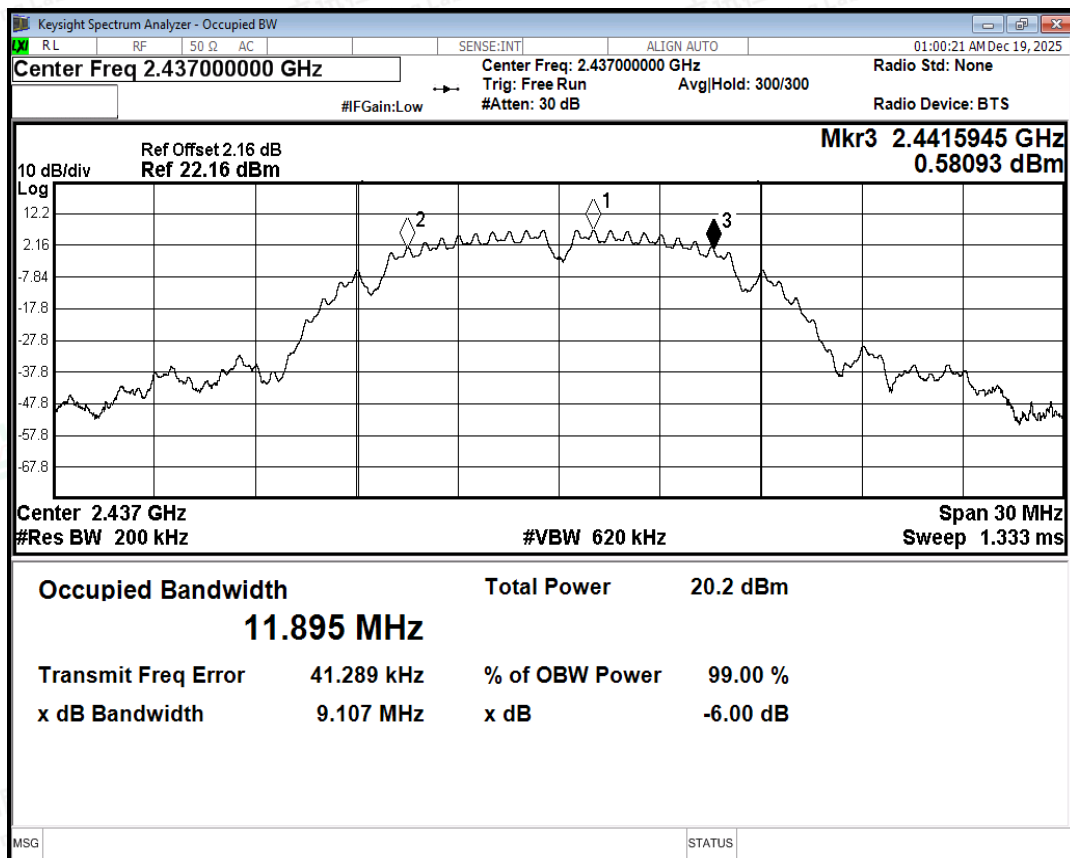
Note :offset=System attenuation +cabal loss



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-6dB Bandwidth NVNT b 2412MHz Ant1



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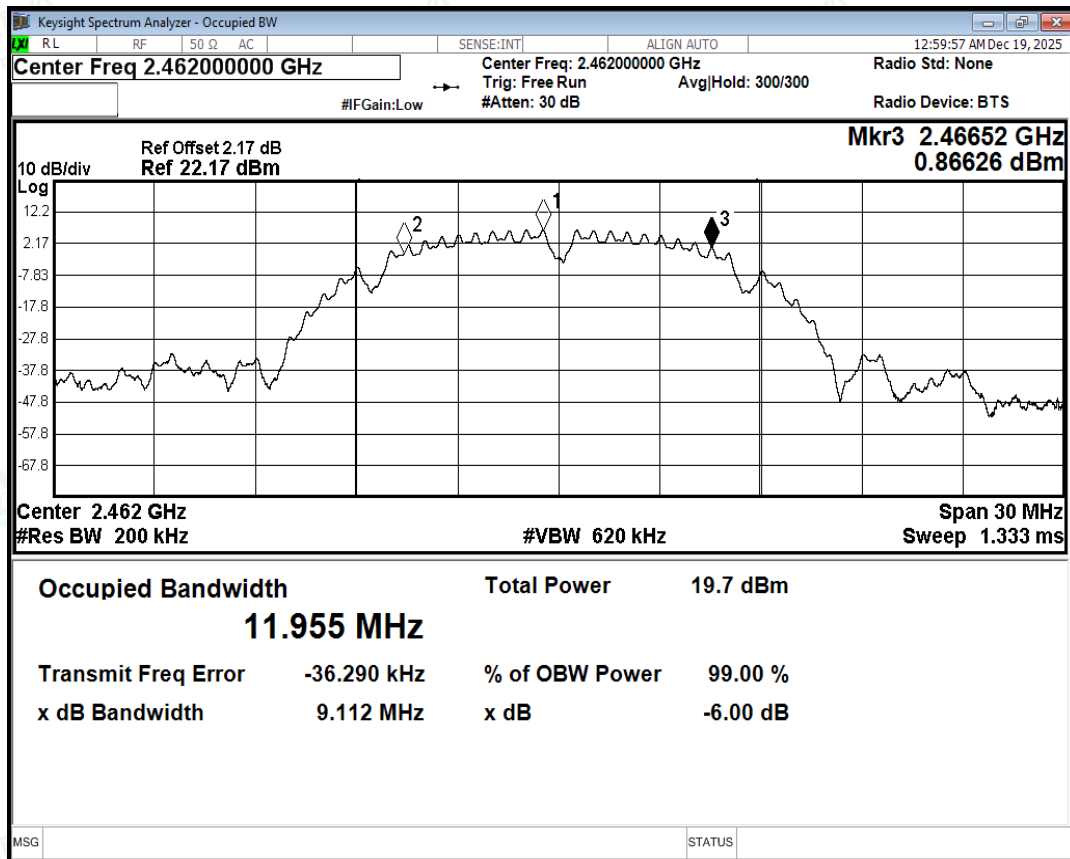
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-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1

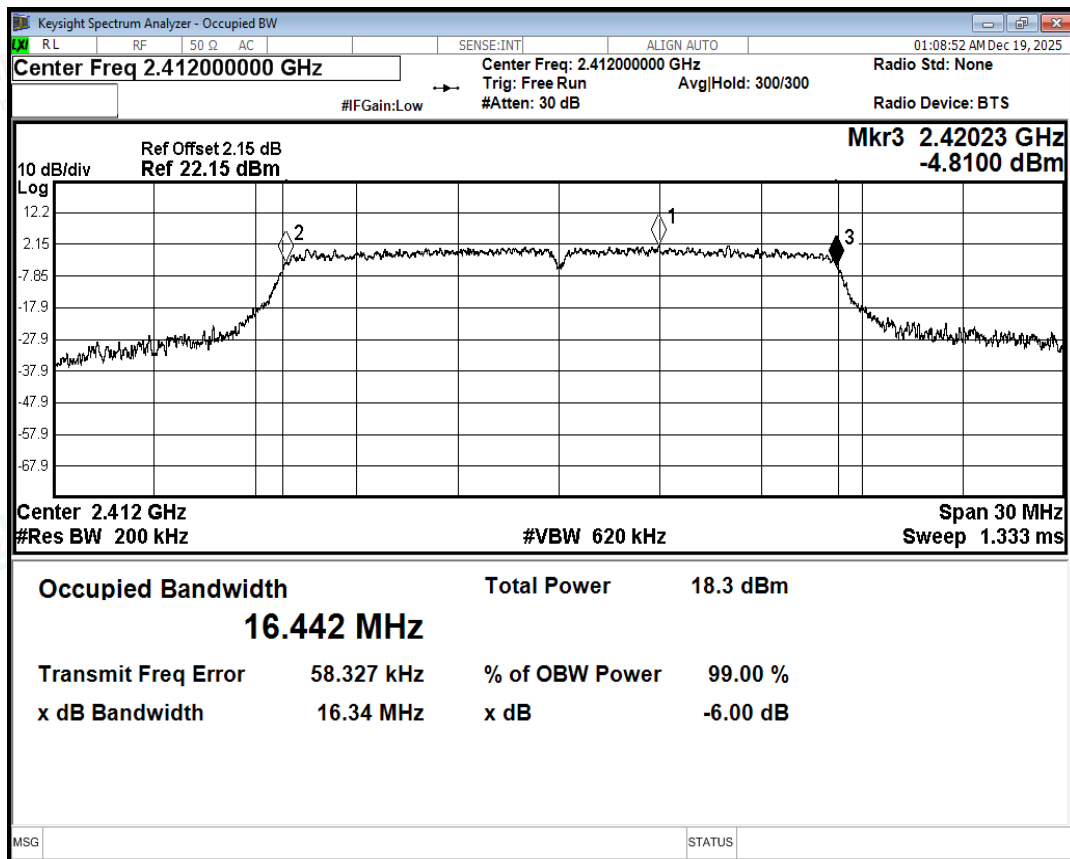


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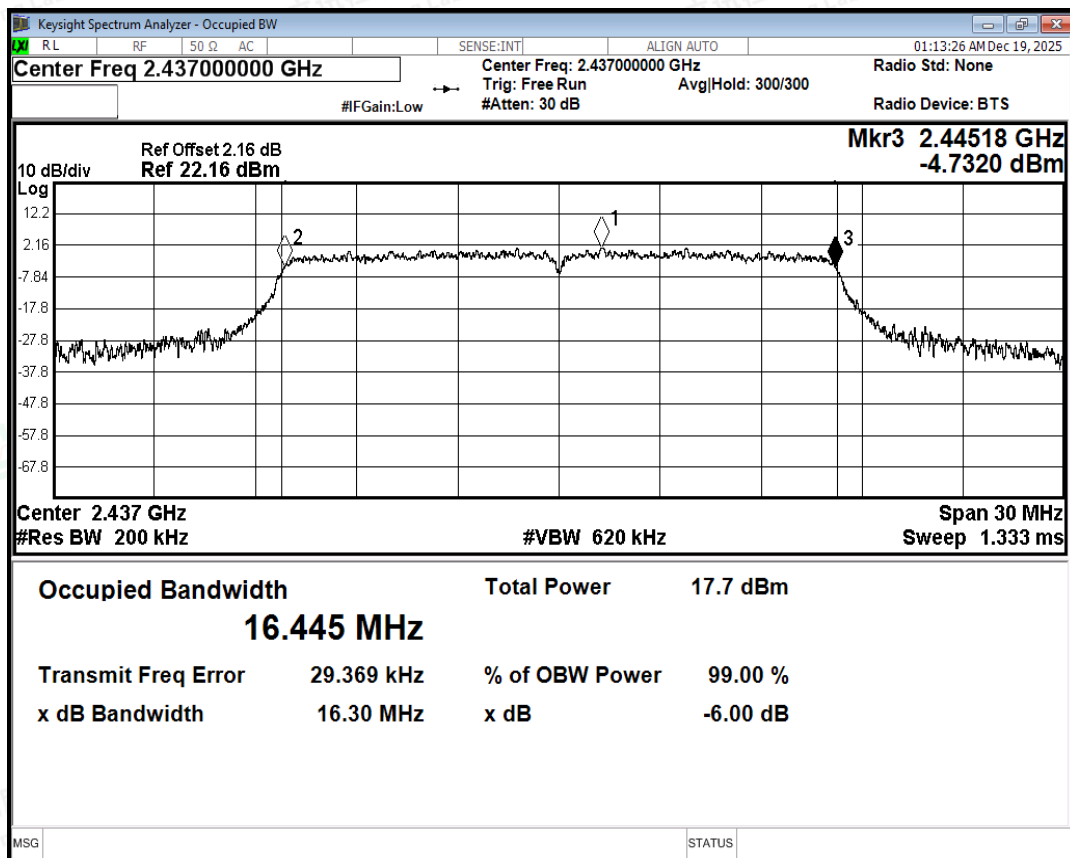
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-6dB Bandwidth NVNT g 2412MHz Ant1



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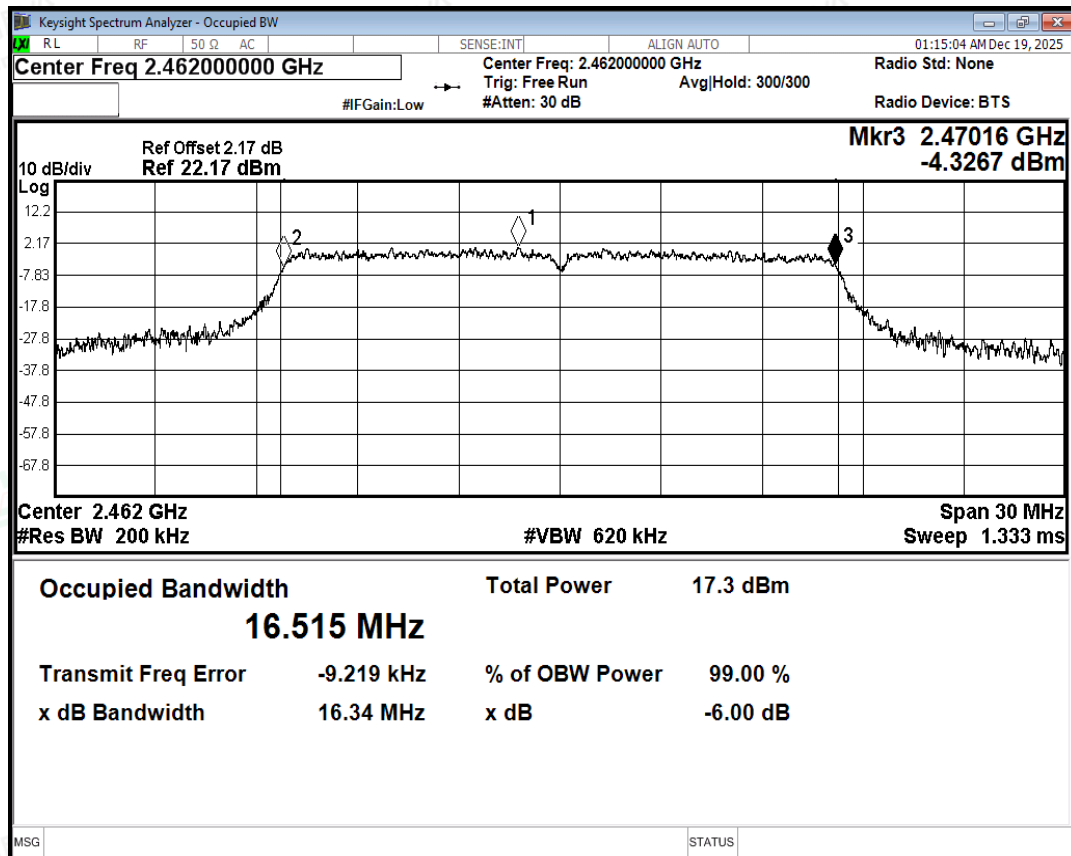
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

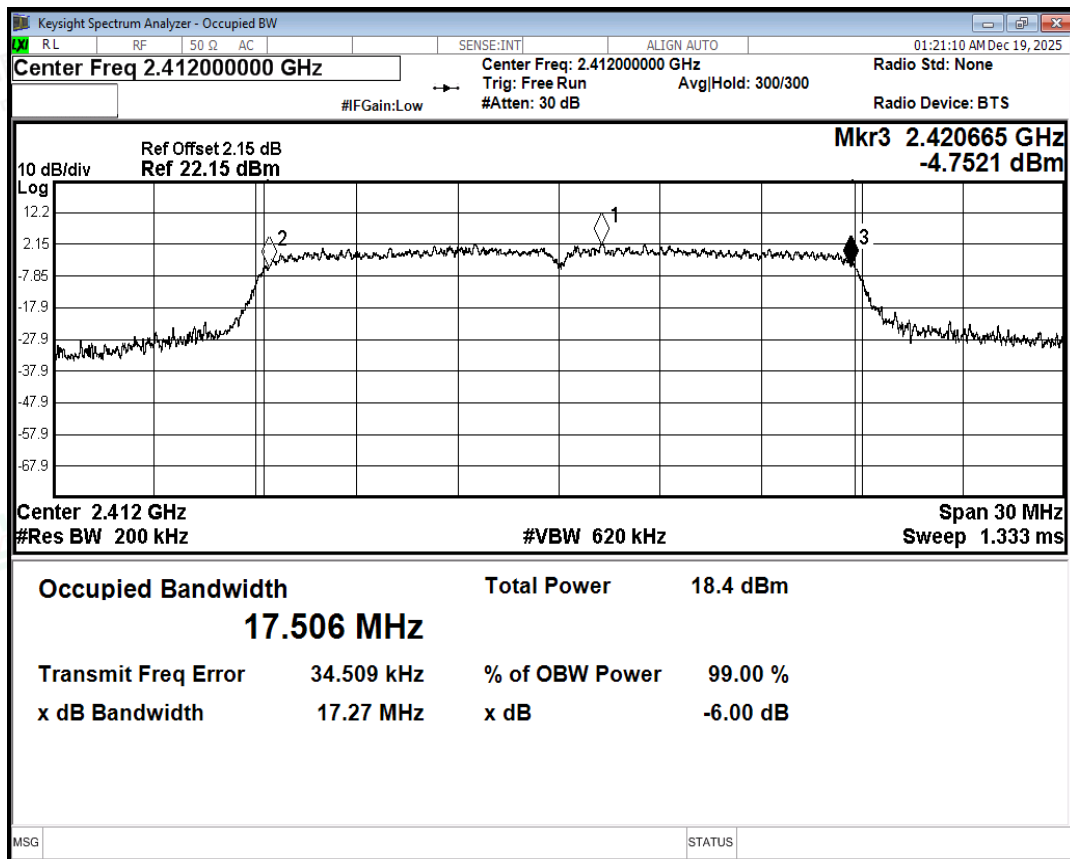


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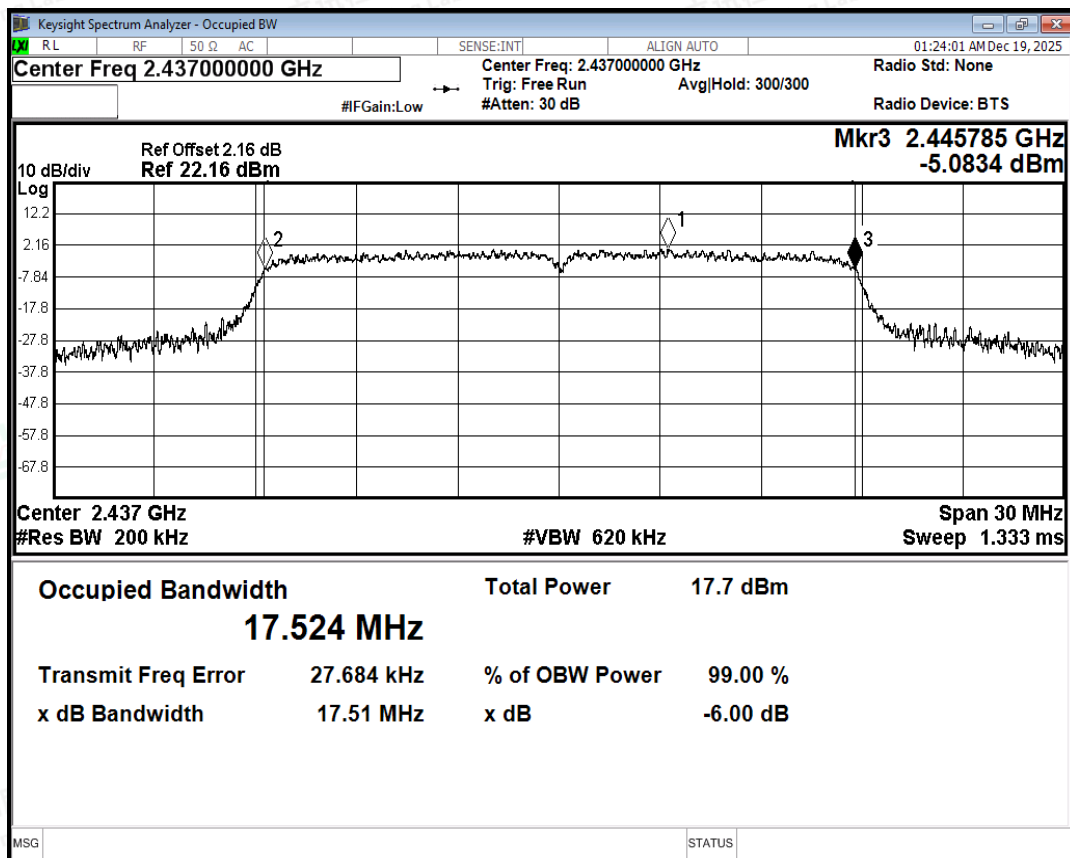
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-6dB Bandwidth NVNT n20 2412MHz Ant1



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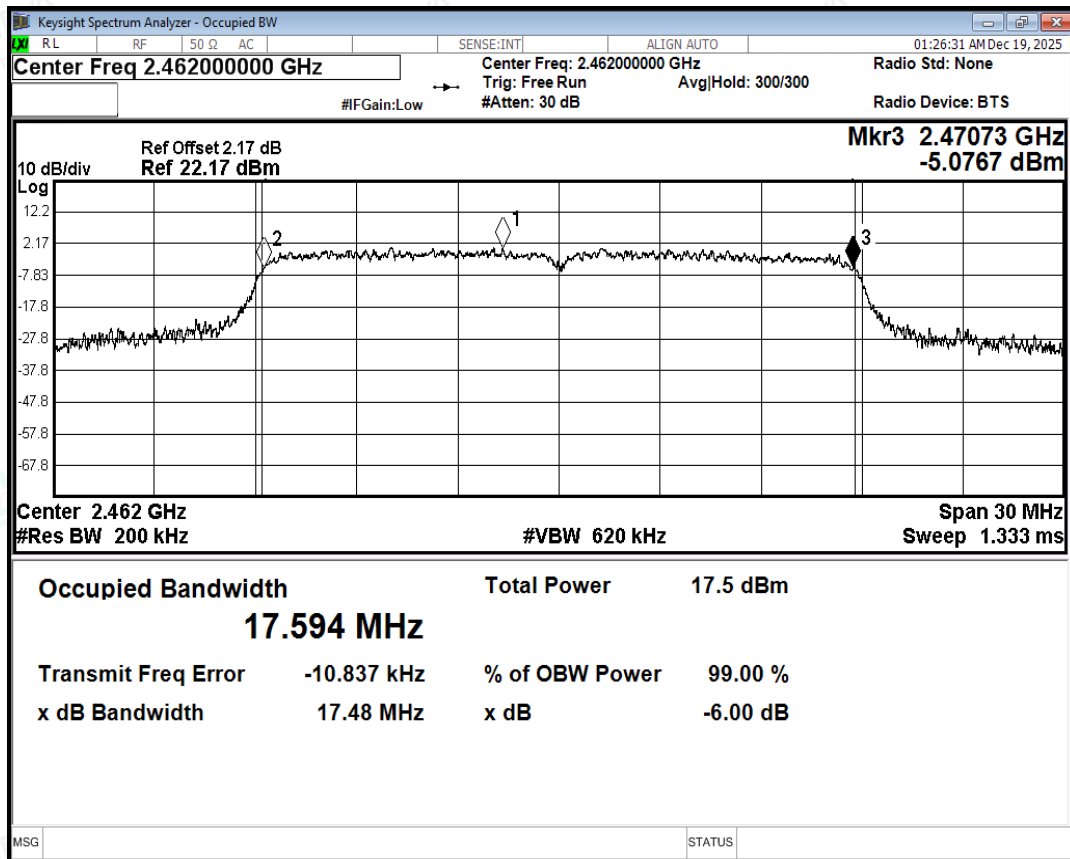
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-6dB Bandwidth NVNT n20 2462MHz Ant1

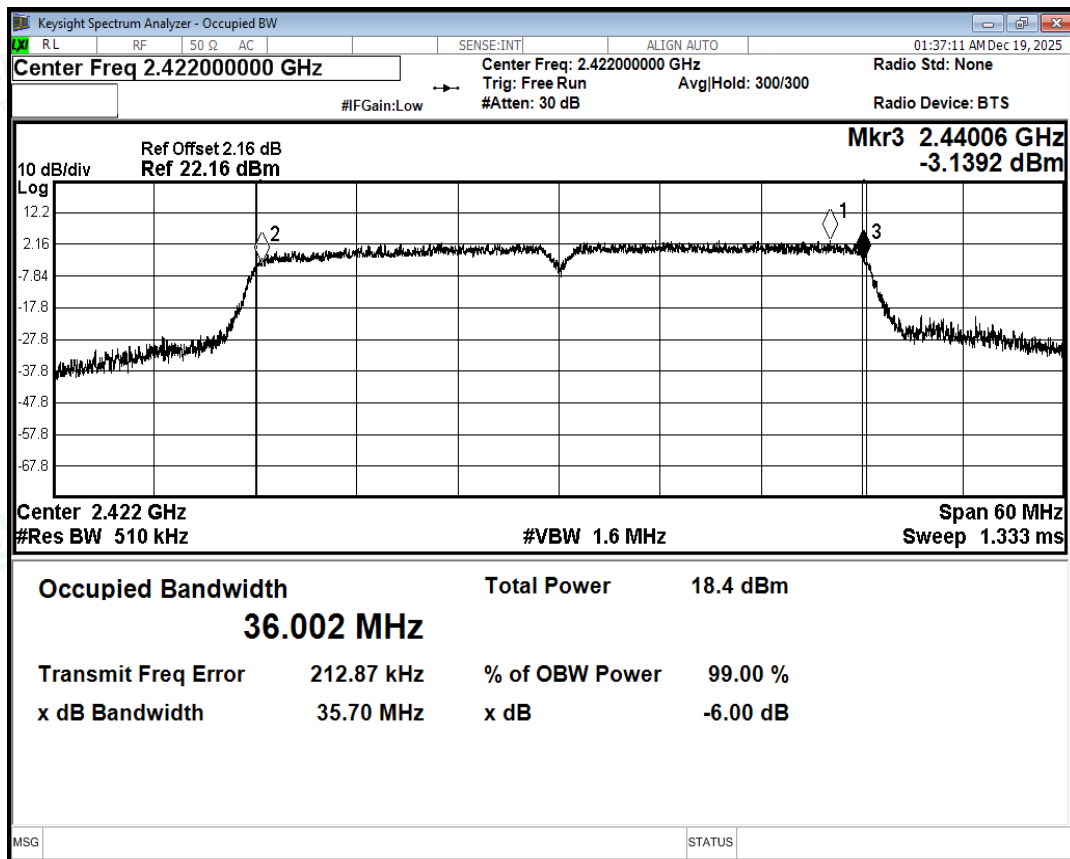


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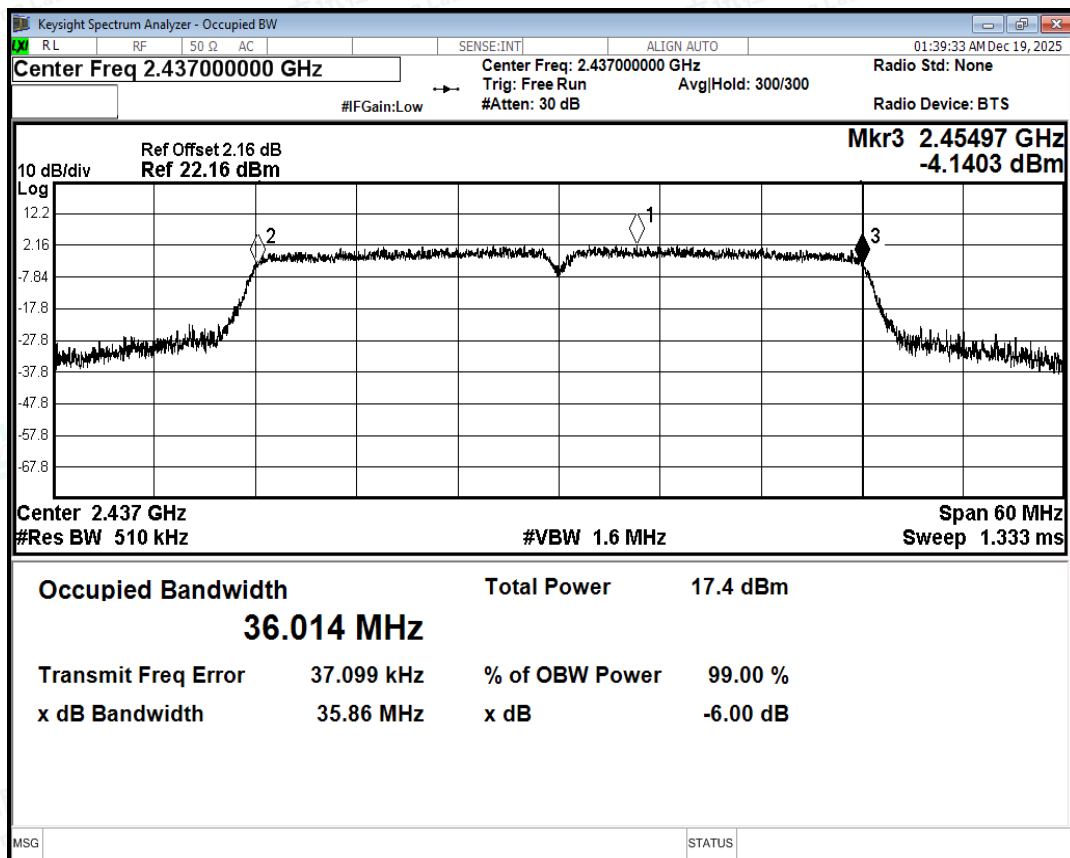
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-6dB Bandwidth NVNT n40 2422MHz Ant1



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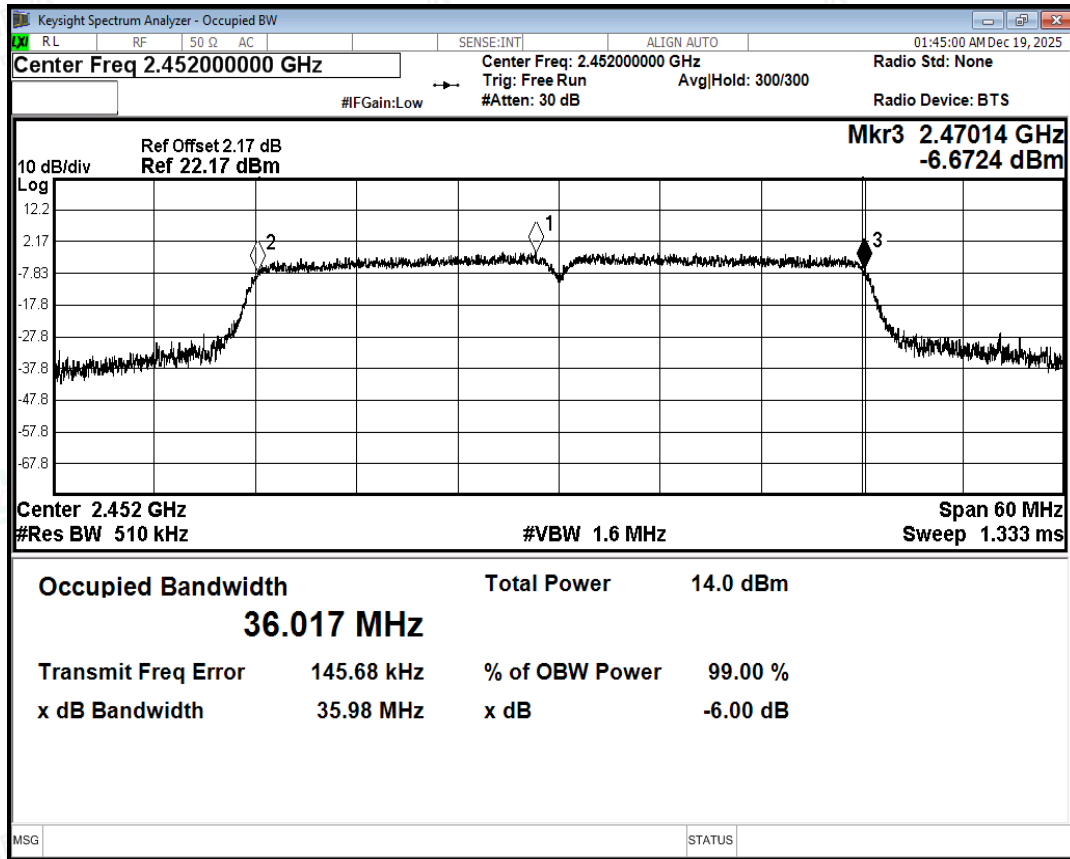
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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B.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	15.03	30	Pass
NVNT	b	2437	Ant1	14.26	30	Pass
NVNT	b	2462	Ant1	13.79	30	Pass
NVNT	g	2412	Ant1	12.24	30	Pass
NVNT	g	2437	Ant1	11.37	30	Pass
NVNT	g	2462	Ant1	11.07	30	Pass
NVNT	n20	2412	Ant1	12.38	30	Pass
NVNT	n20	2437	Ant1	11.56	30	Pass
NVNT	n20	2462	Ant1	11.3	30	Pass
NVNT	n40	2422	Ant1	11.67	30	Pass
NVNT	n40	2437	Ant1	10.6	30	Pass
NVNT	n40	2452	Ant1	10.21	30	Pass

Note :offset=System attenuation +cabal loss



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B.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	Ant1	-8.23	0.02	-8.21	8	Pass
NVNT	b	2437	Ant1	-9.56	0.02	-9.54	8	Pass
NVNT	b	2462	Ant1	-9.81	0.02	-9.79	8	Pass
NVNT	g	2412	Ant1	-14.07	0.1	-13.97	8	Pass
NVNT	g	2437	Ant1	-14.95	0.1	-14.85	8	Pass
NVNT	g	2462	Ant1	-15.07	0.1	-14.97	8	Pass
NVNT	n20	2412	Ant1	-14.31	0.12	-14.19	8	Pass
NVNT	n20	2437	Ant1	-15.31	0.12	-15.19	8	Pass
NVNT	n20	2462	Ant1	-15.35	0.12	-15.23	8	Pass
NVNT	n40	2422	Ant1	-16.82	0.24	-16.58	8	Pass
NVNT	n40	2437	Ant1	-17.93	0.24	-17.69	8	Pass
NVNT	n40	2452	Ant1	-17.2	0.24	-16.96	8	Pass

Note :offset=System attenuation +cabel loss

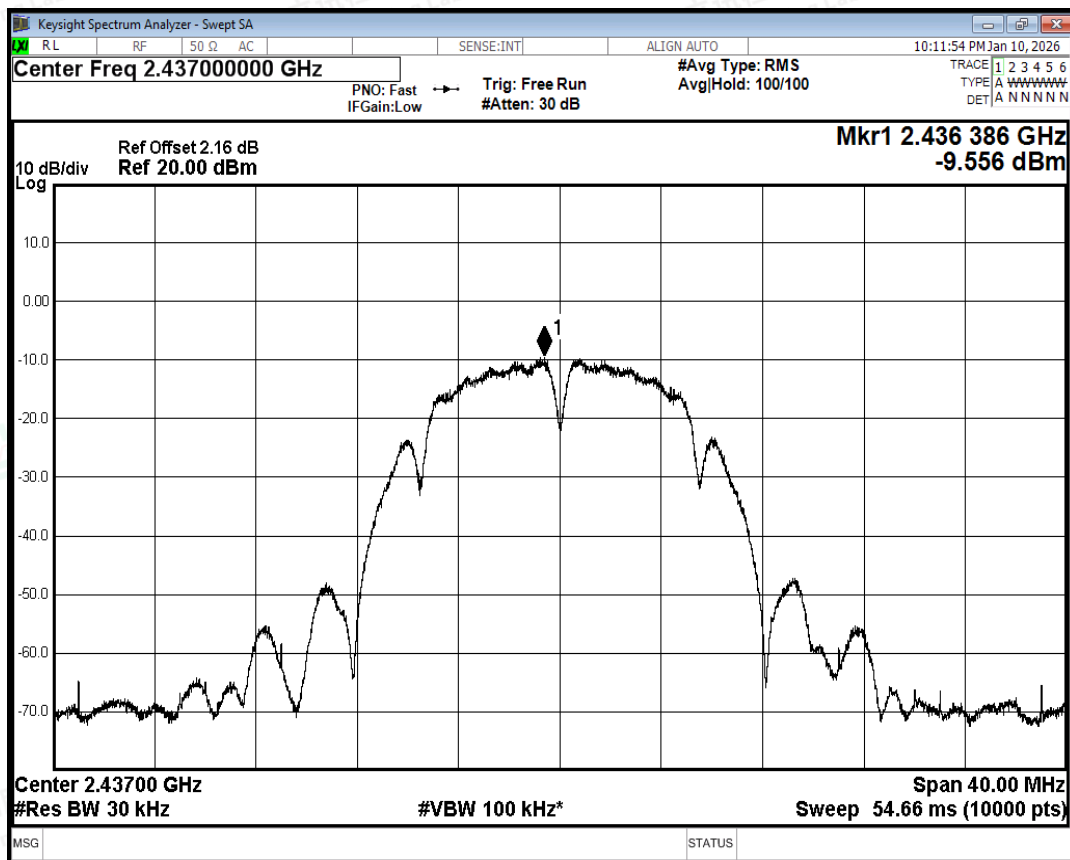
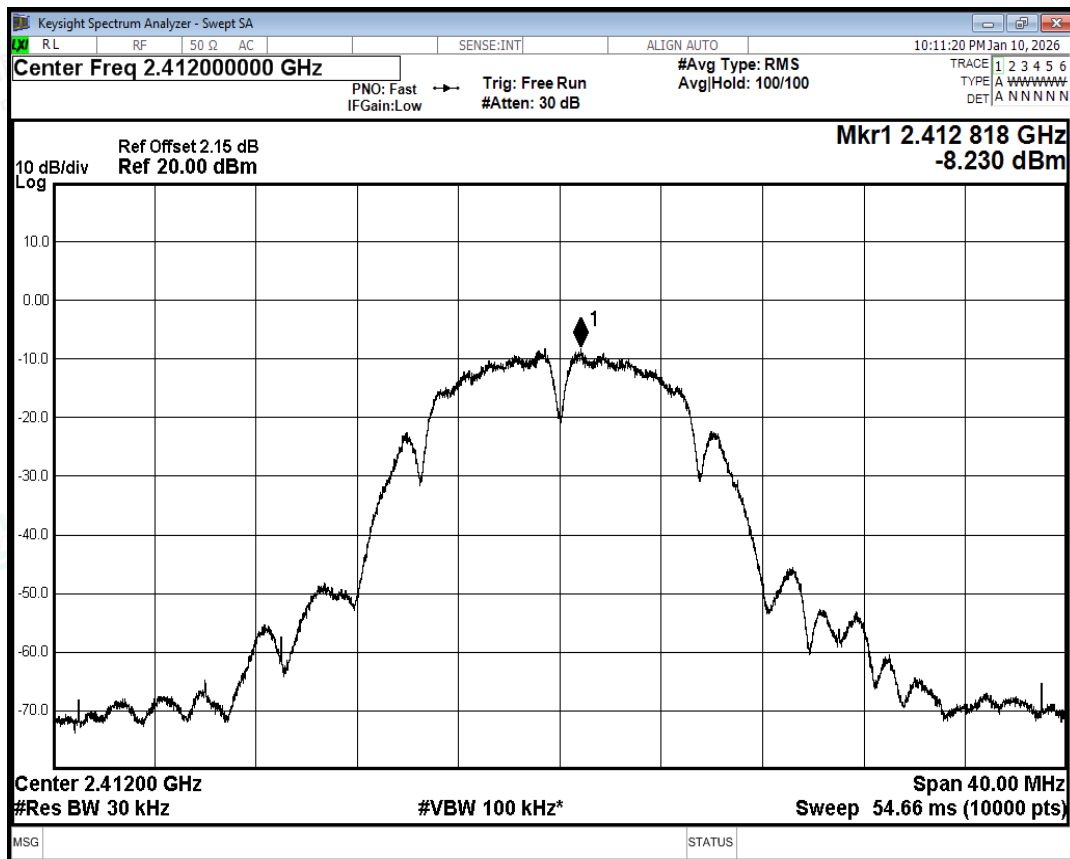


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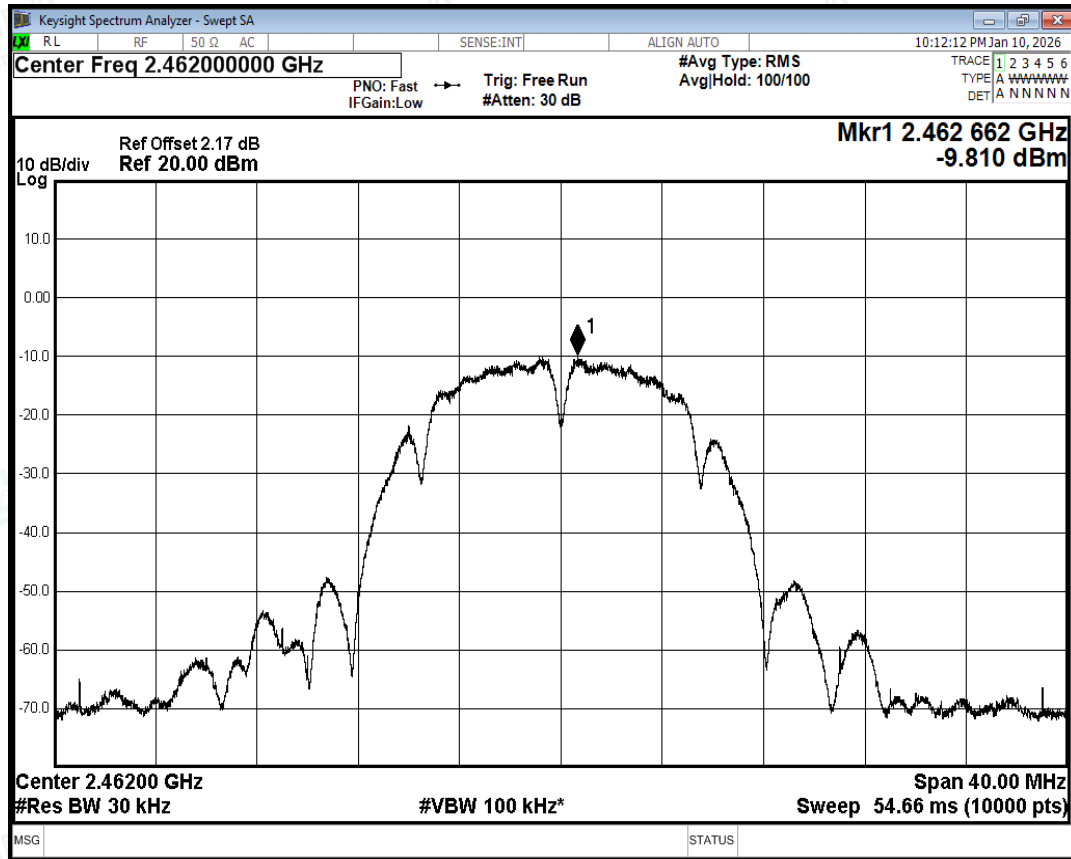
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PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1

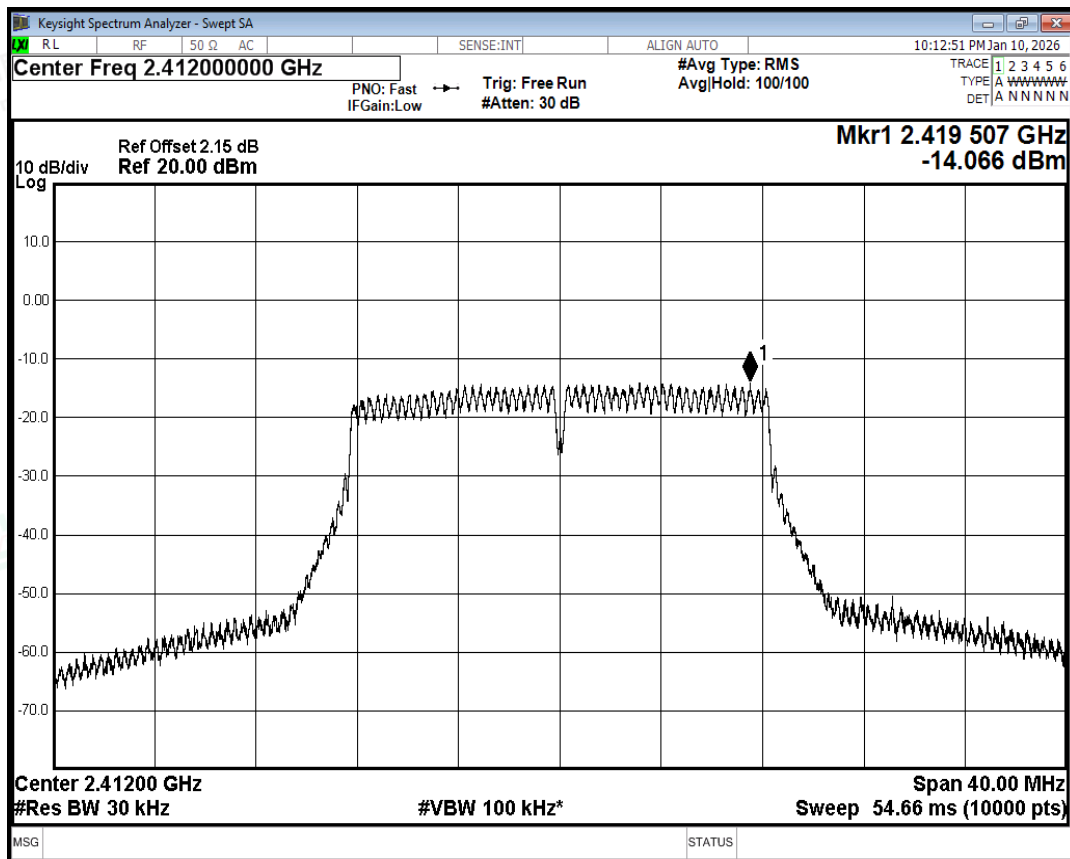


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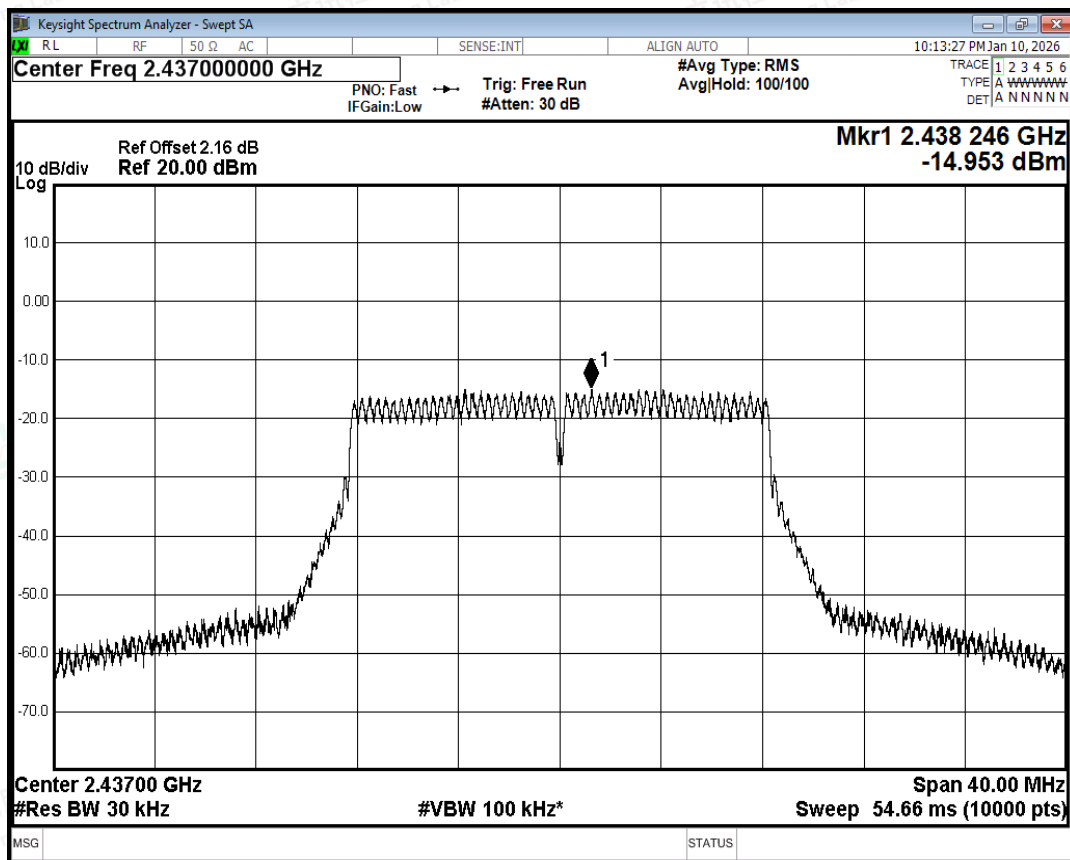
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PSD NVNT g 2412MHz Ant1



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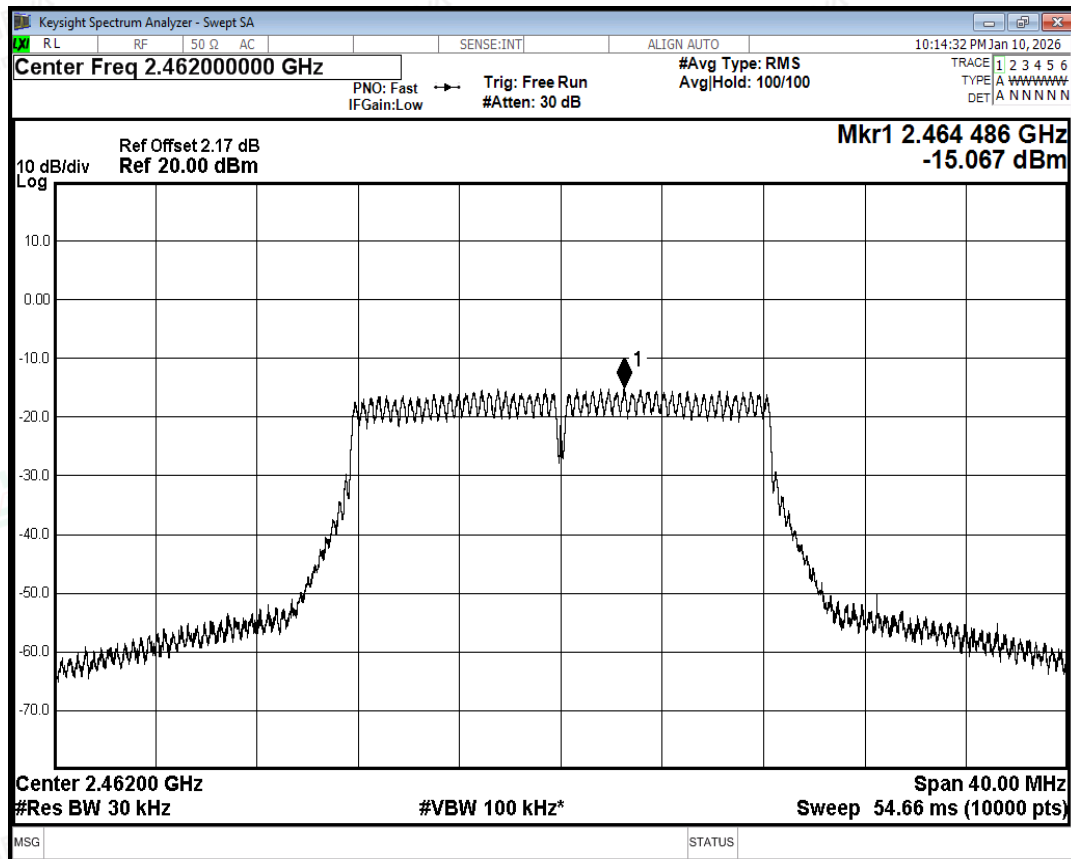
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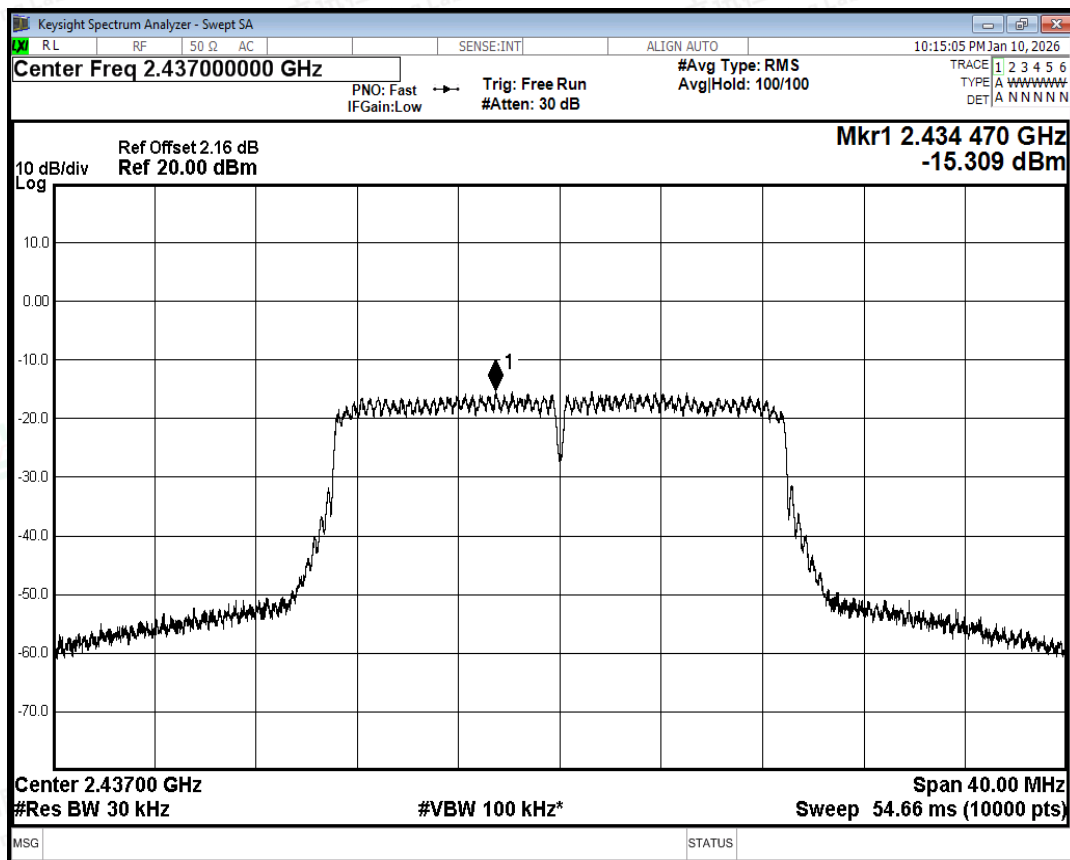
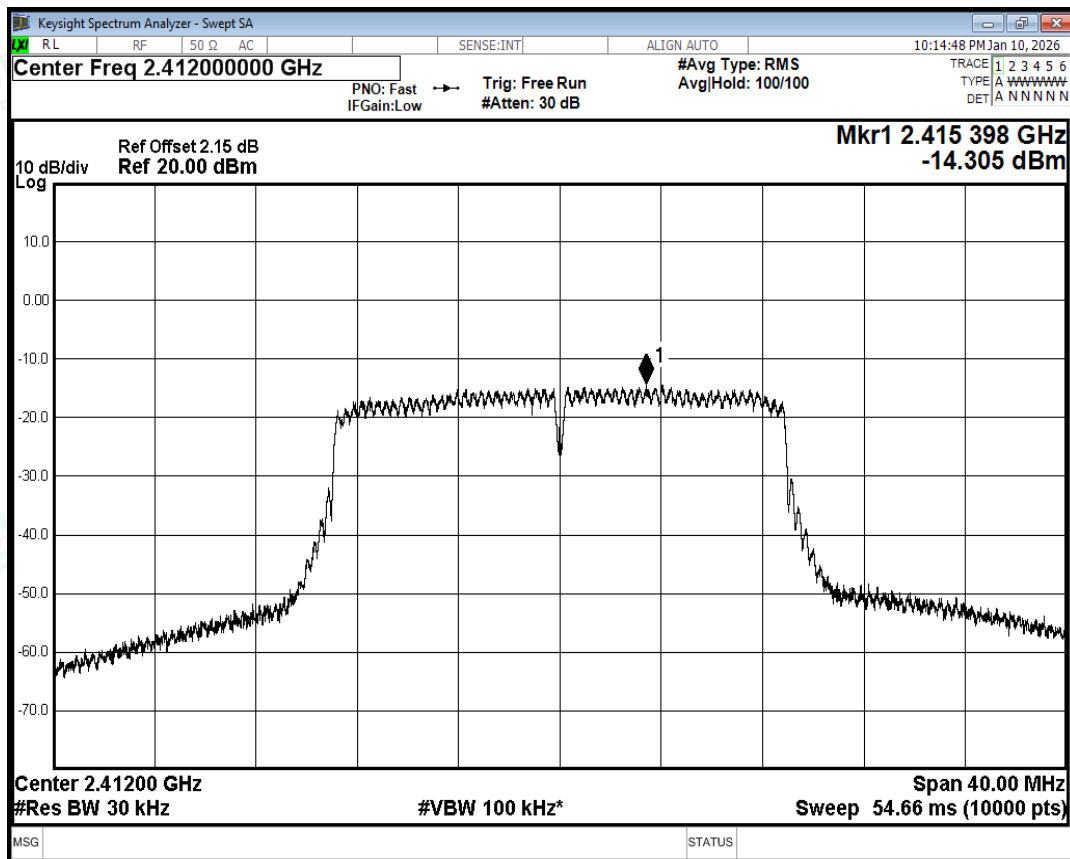


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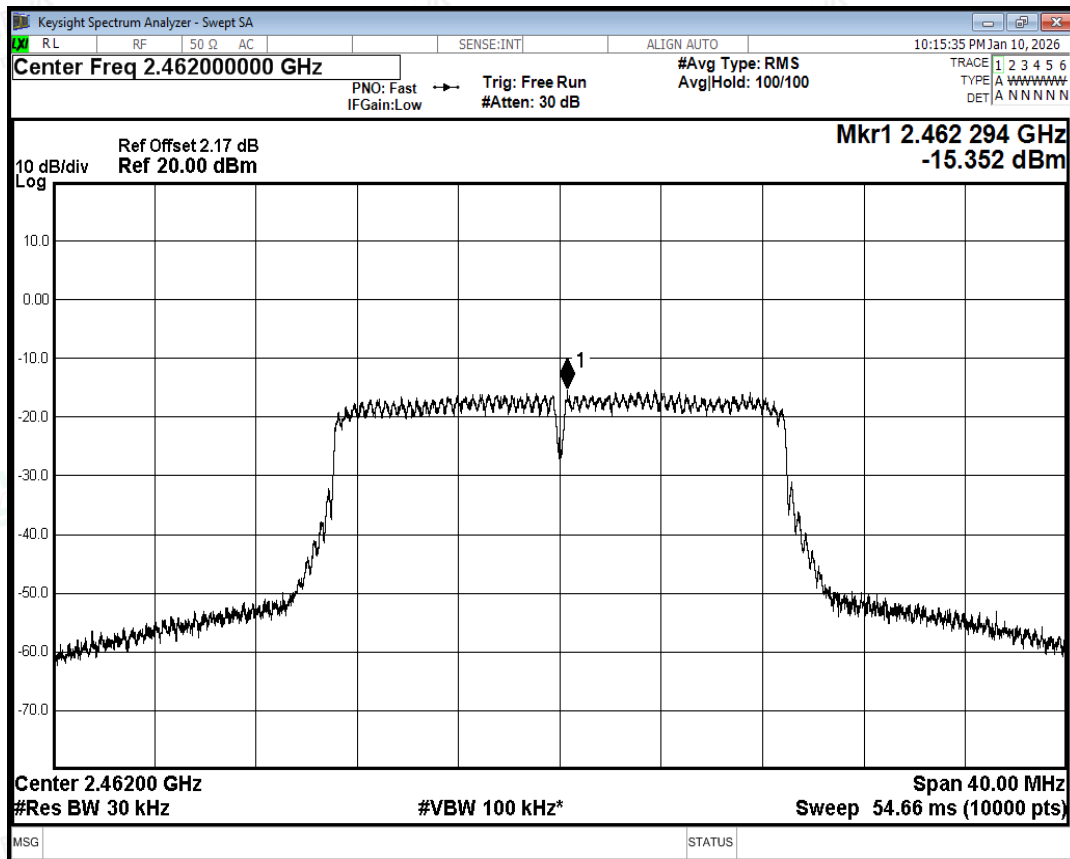
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PSD NVNT n20 2437MHz Ant1



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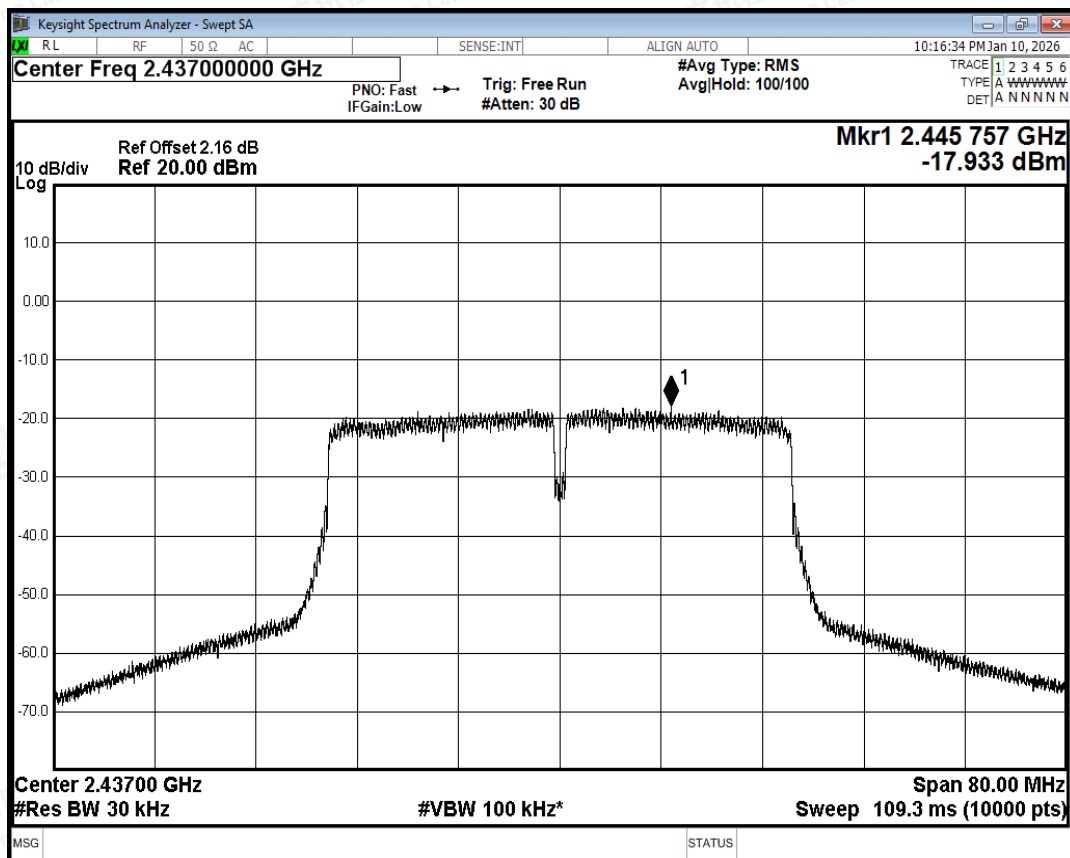
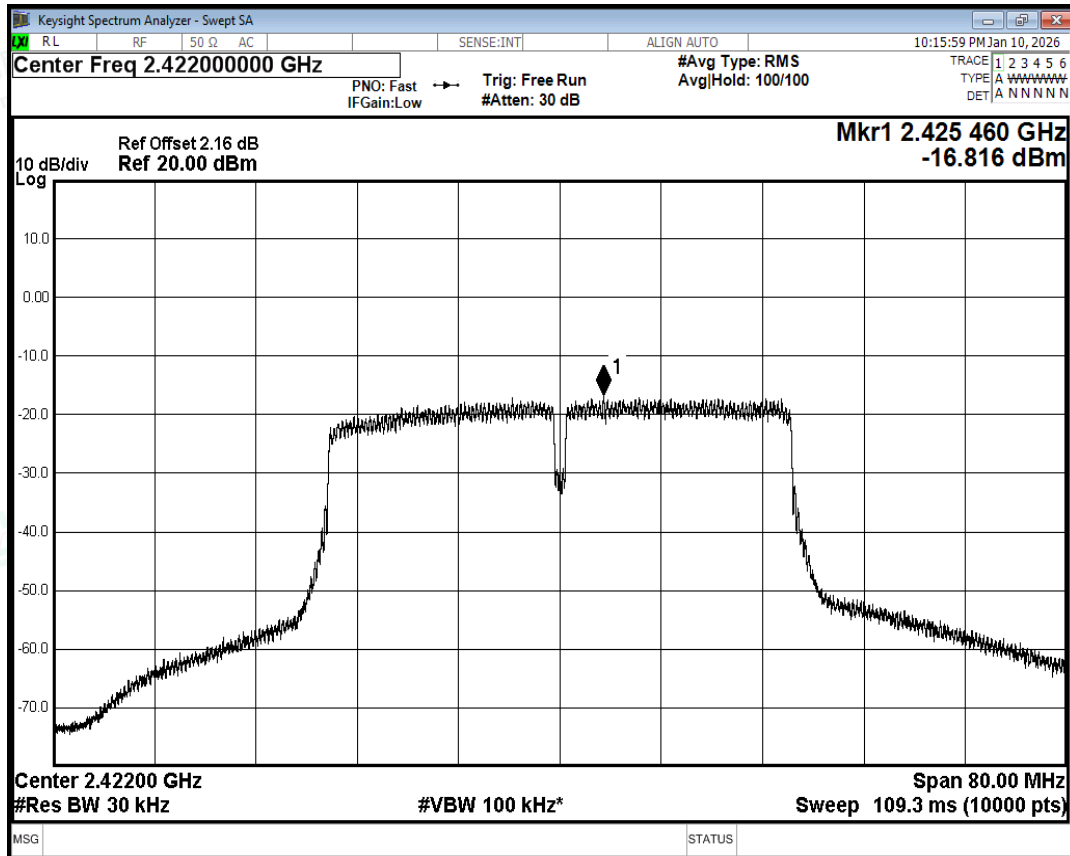


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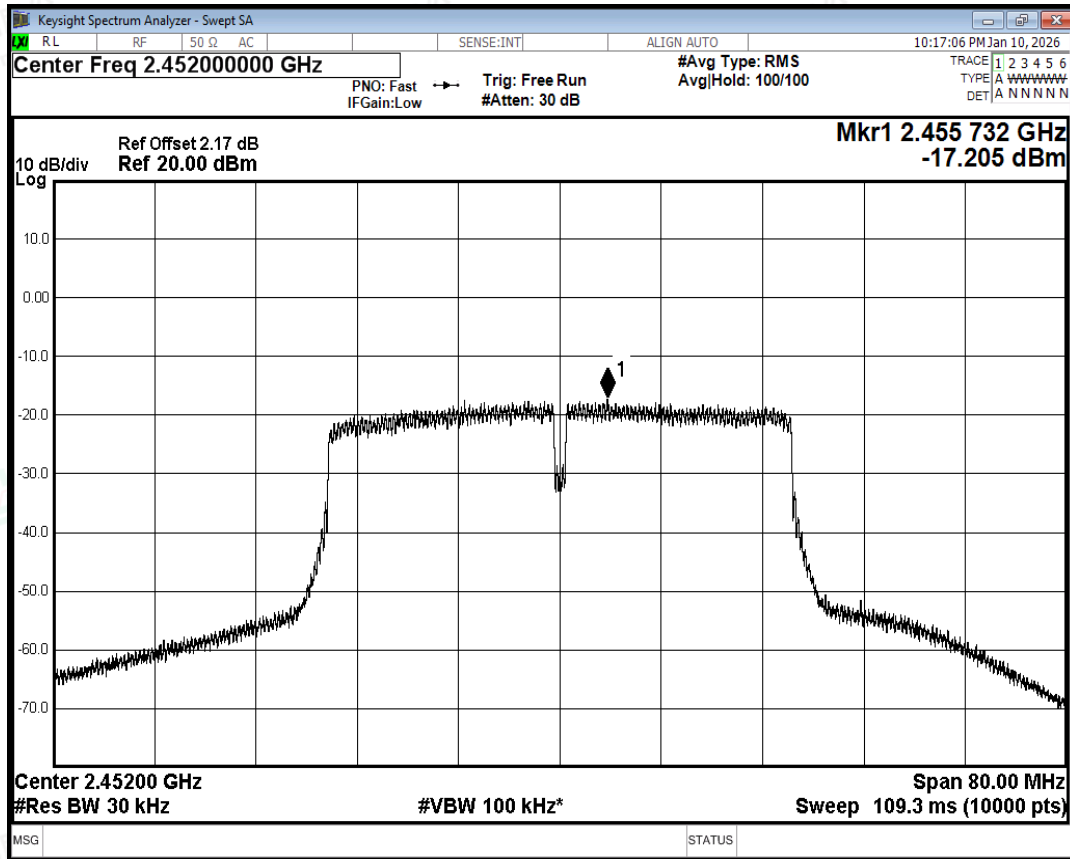
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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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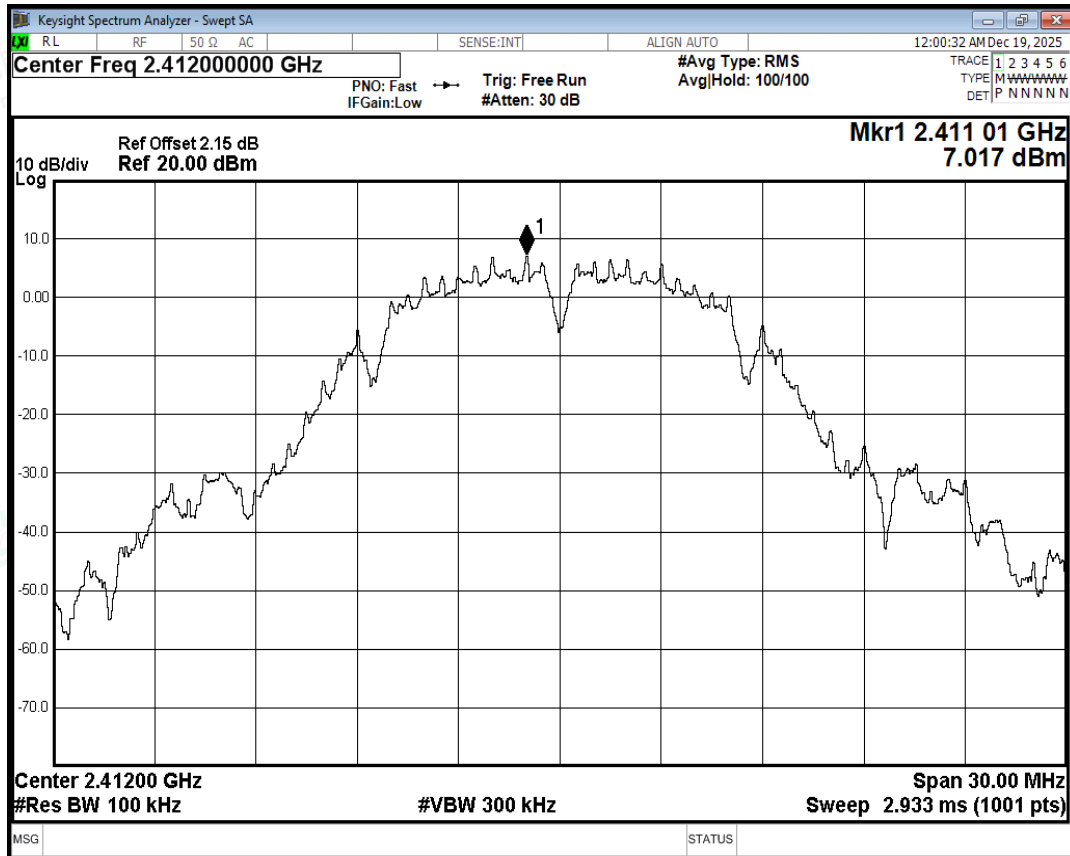
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.09	-30	Pass
NVNT	b	2462	Ant1	-61.1	-30	Pass
NVNT	g	2412	Ant1	-32.69	-30	Pass
NVNT	g	2462	Ant1	-44.45	-30	Pass
NVNT	n20	2412	Ant1	-30.62	-30	Pass
NVNT	n20	2462	Ant1	-42.65	-30	Pass
NVNT	n40	2422	Ant1	-34.94	-30	Pass
NVNT	n40	2452	Ant1	-38.07	-30	Pass

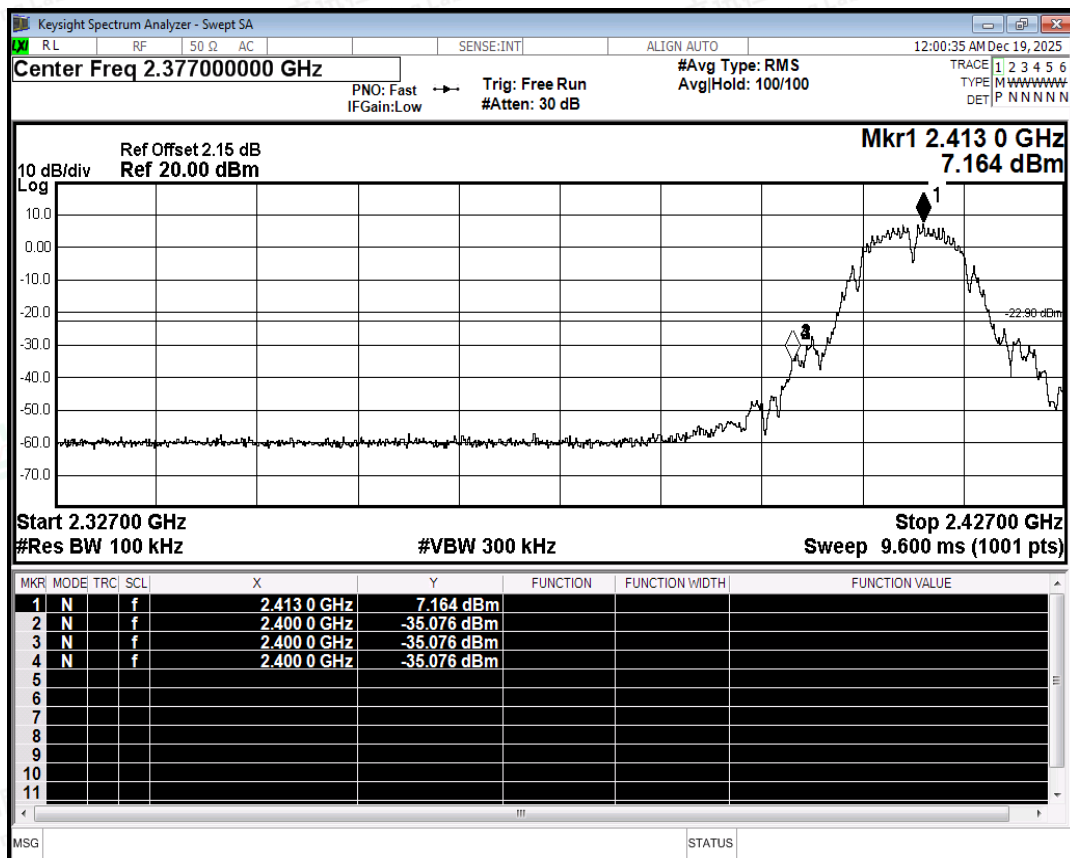
Note :offset=System attenuation +cabal loss



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Band Edge NVNT b 2412MHz Ant1 Ref



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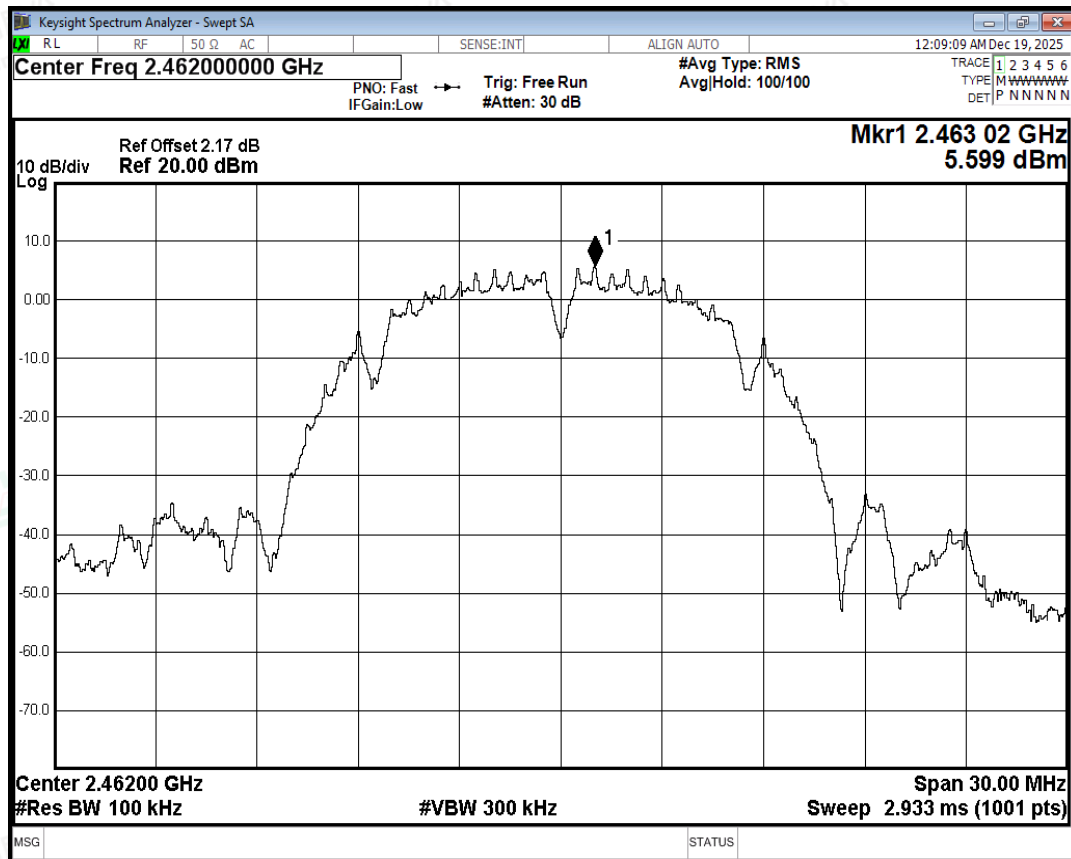
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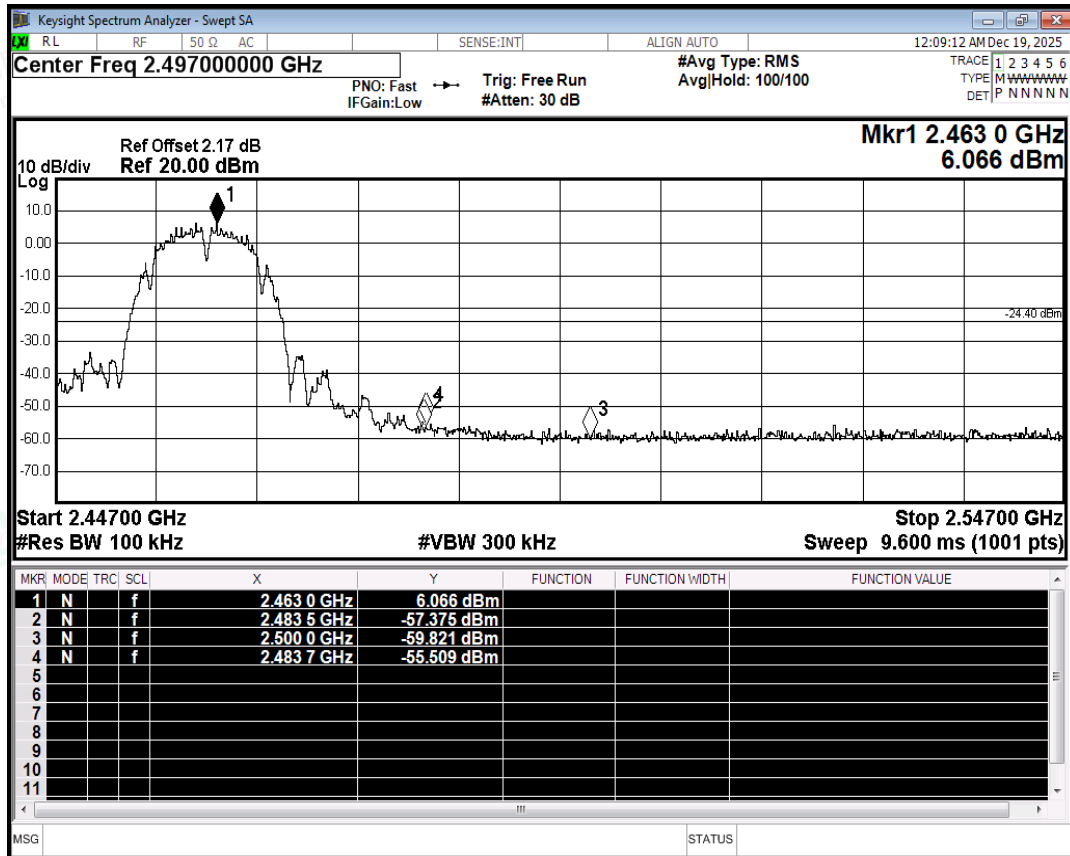


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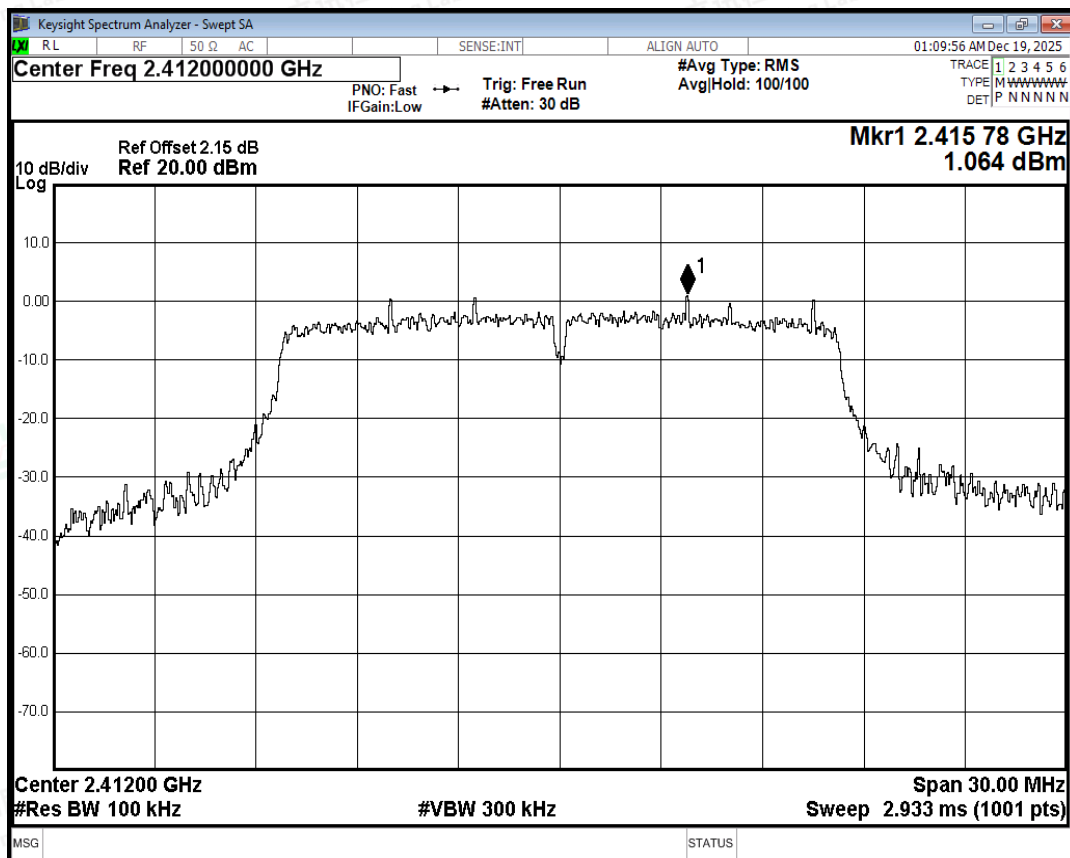
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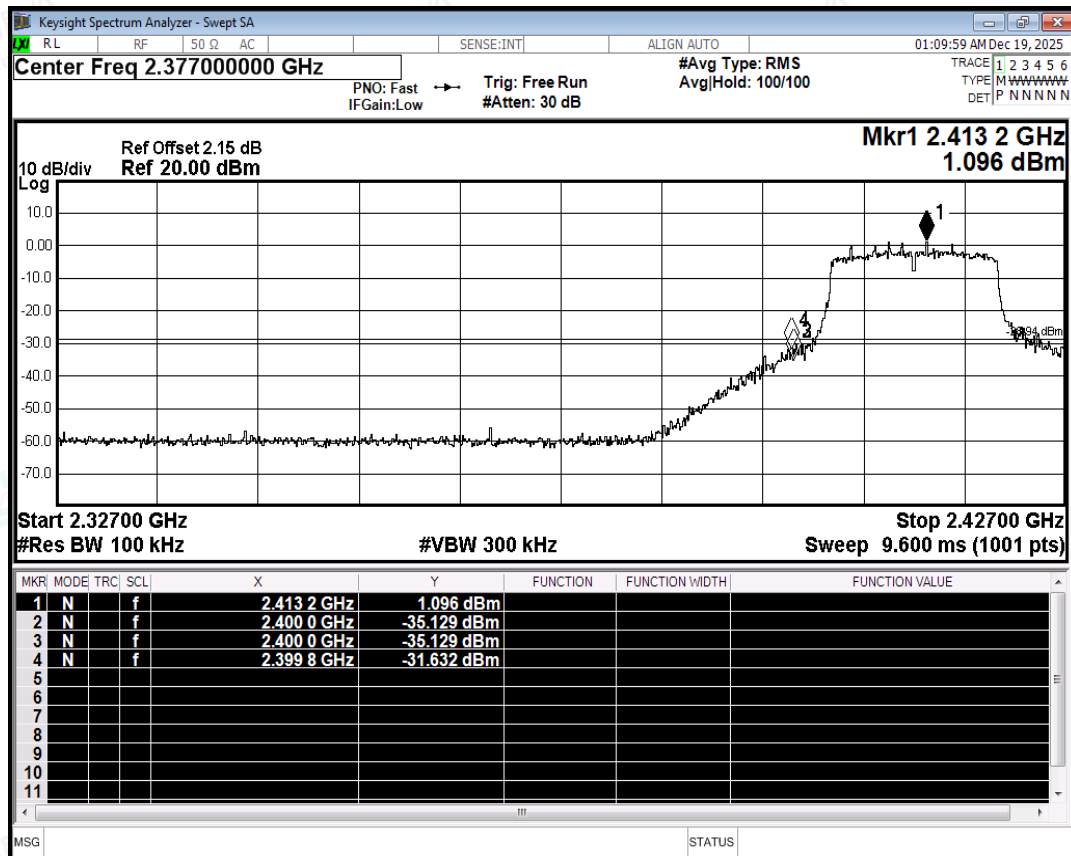
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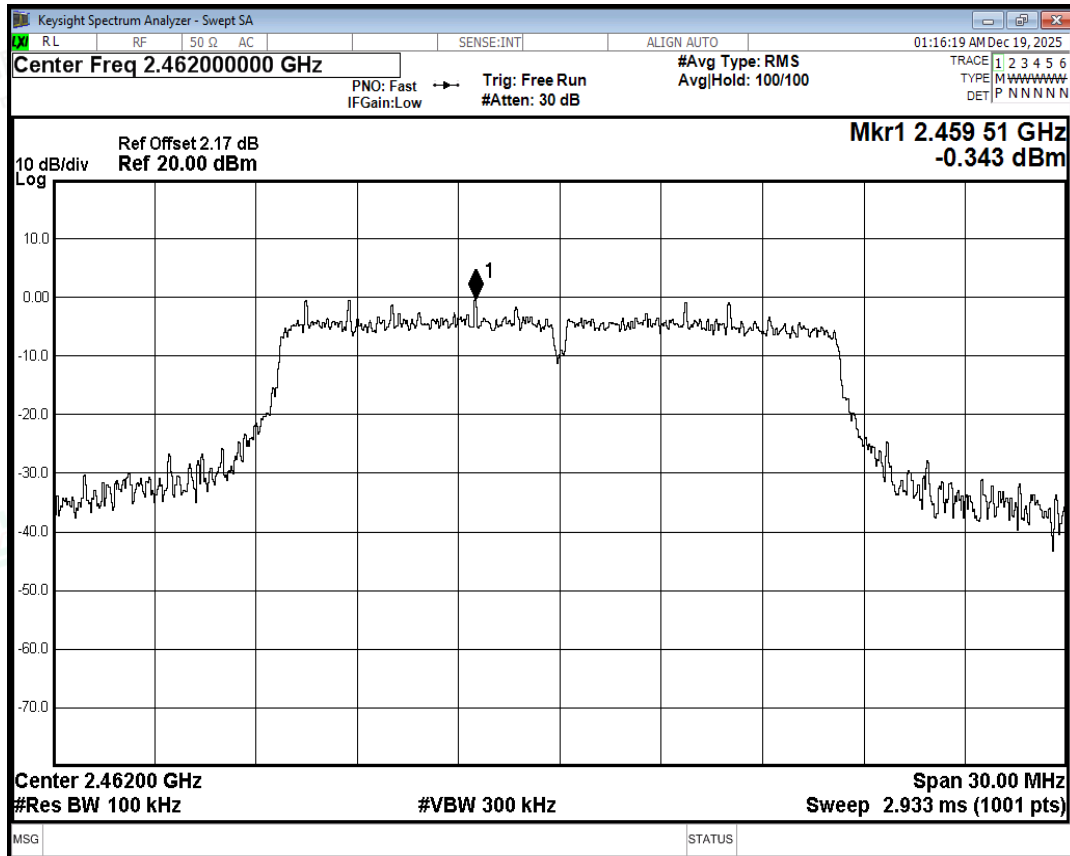


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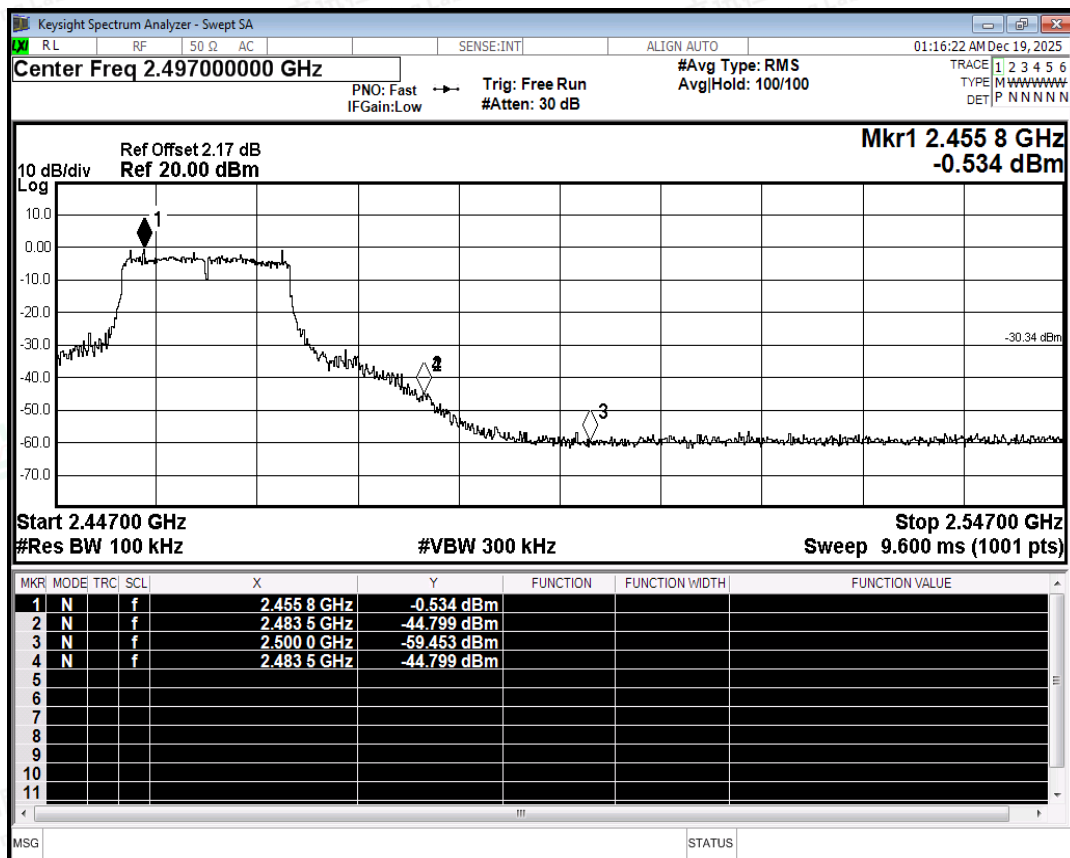
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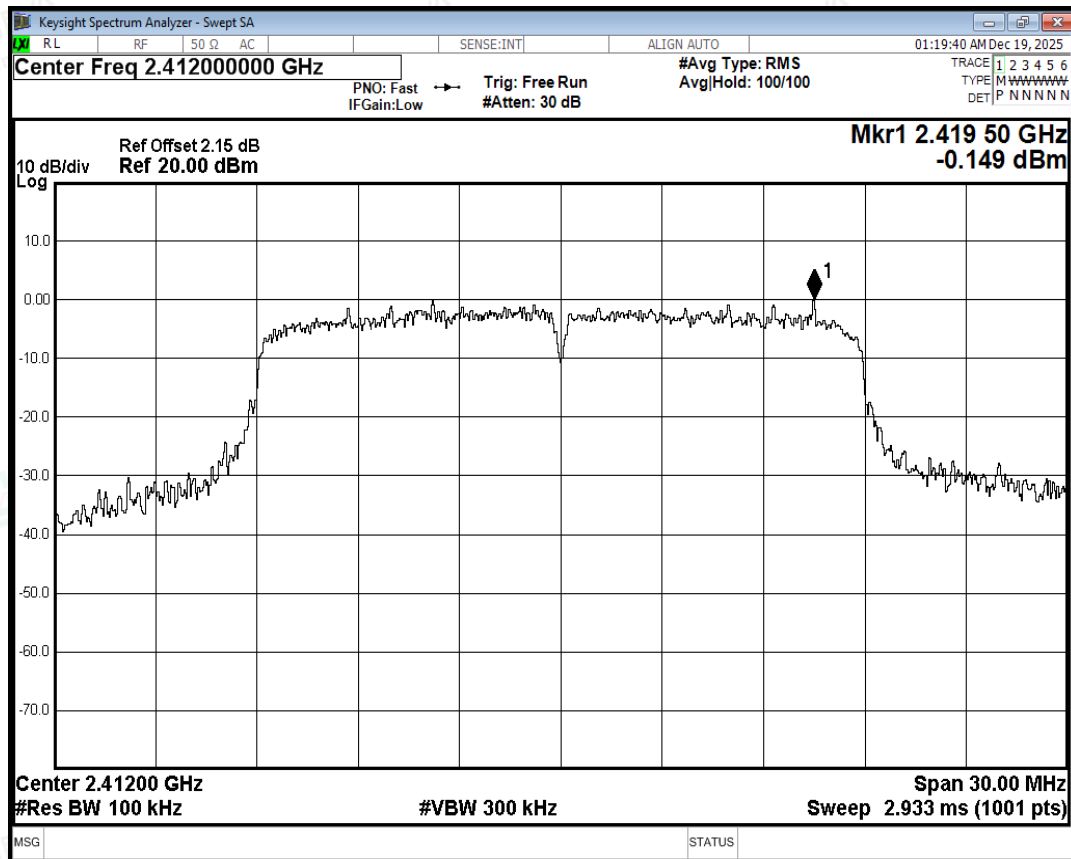
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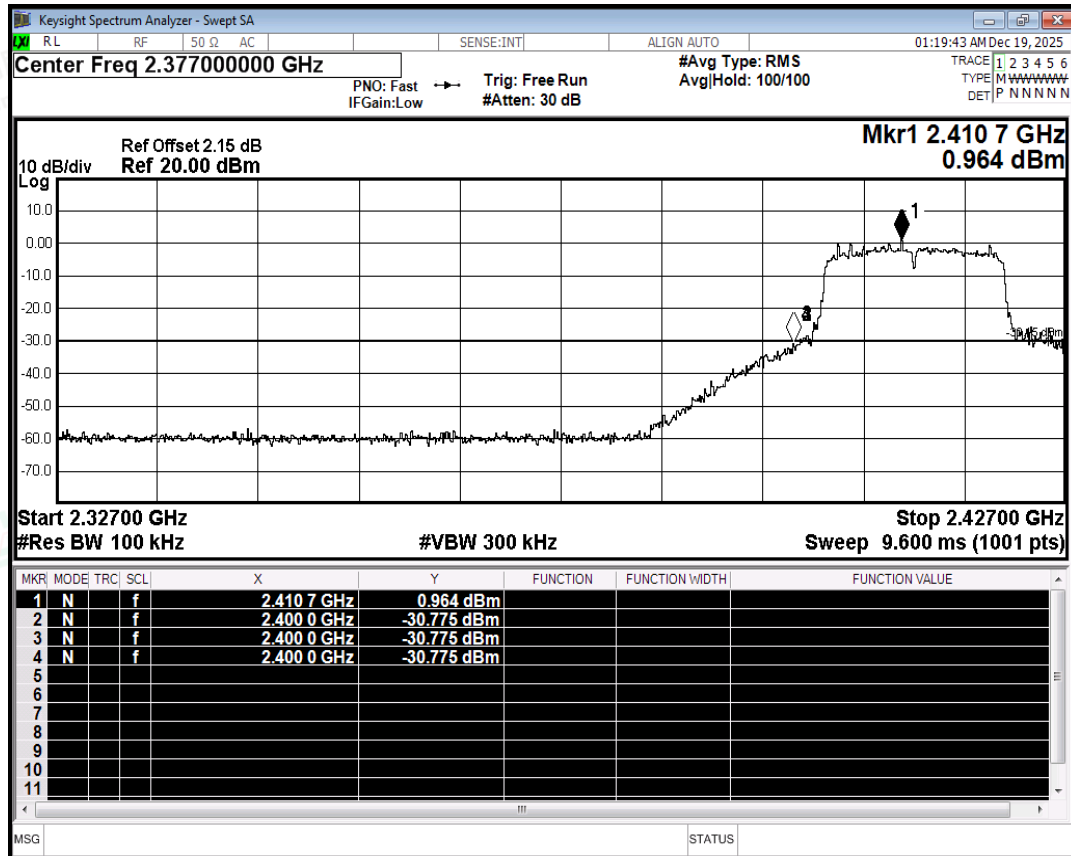


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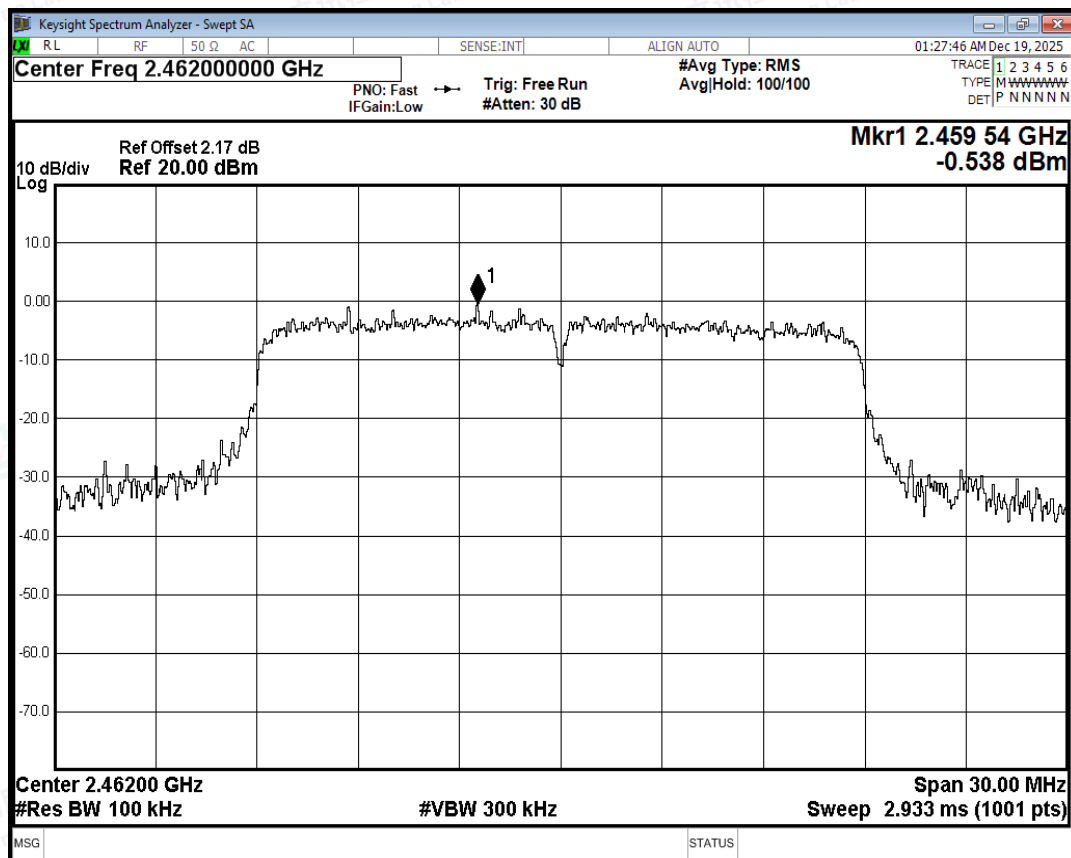
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Band Edge NVNT n20 2412MHz Ant1 Emission



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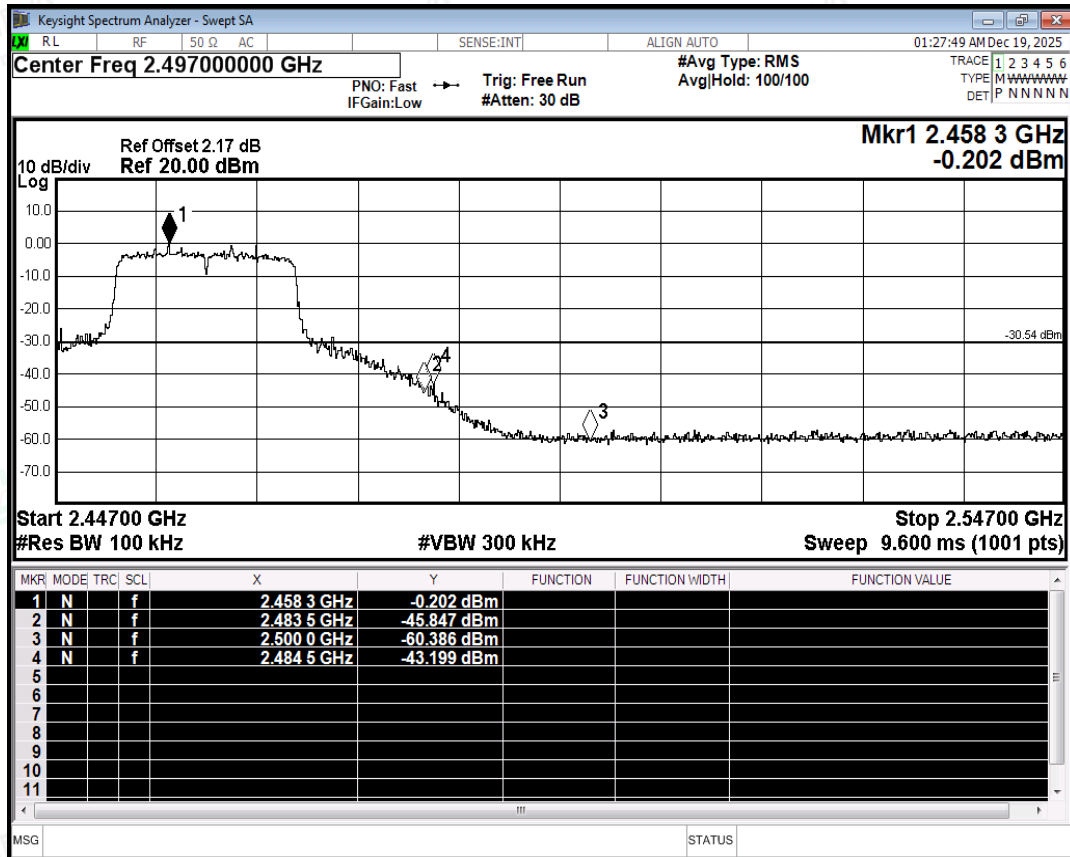
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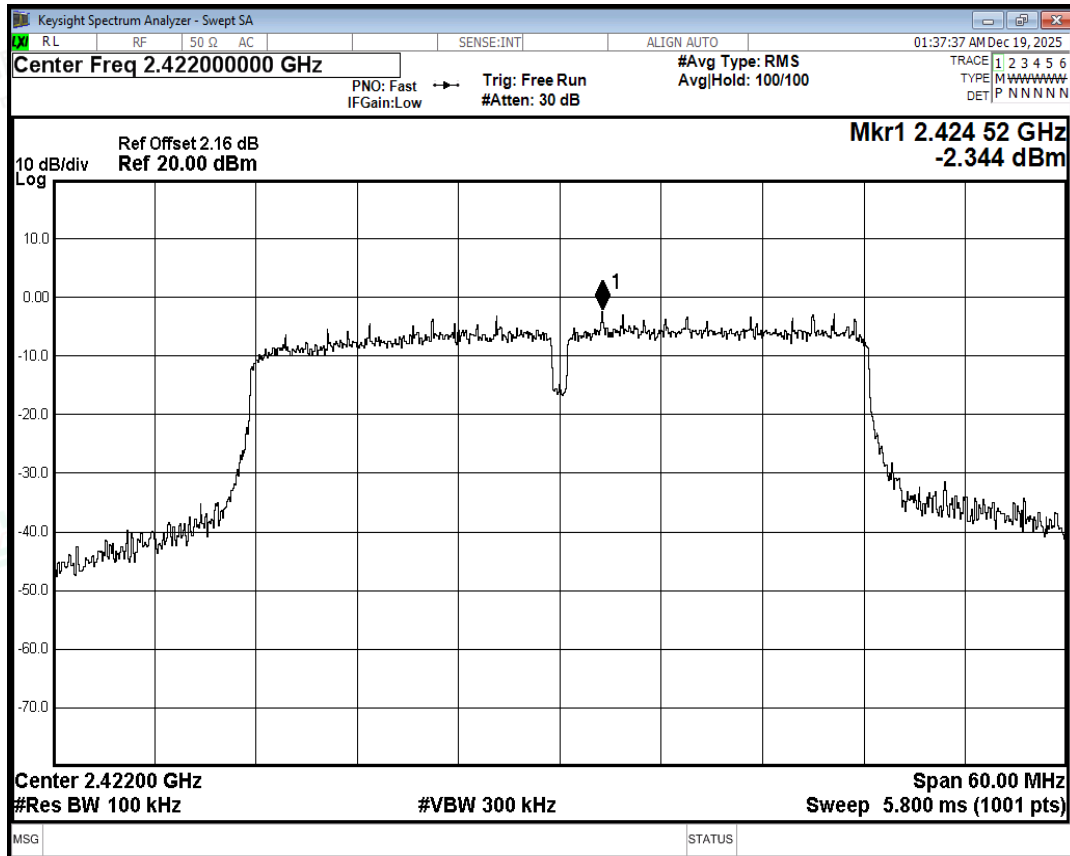


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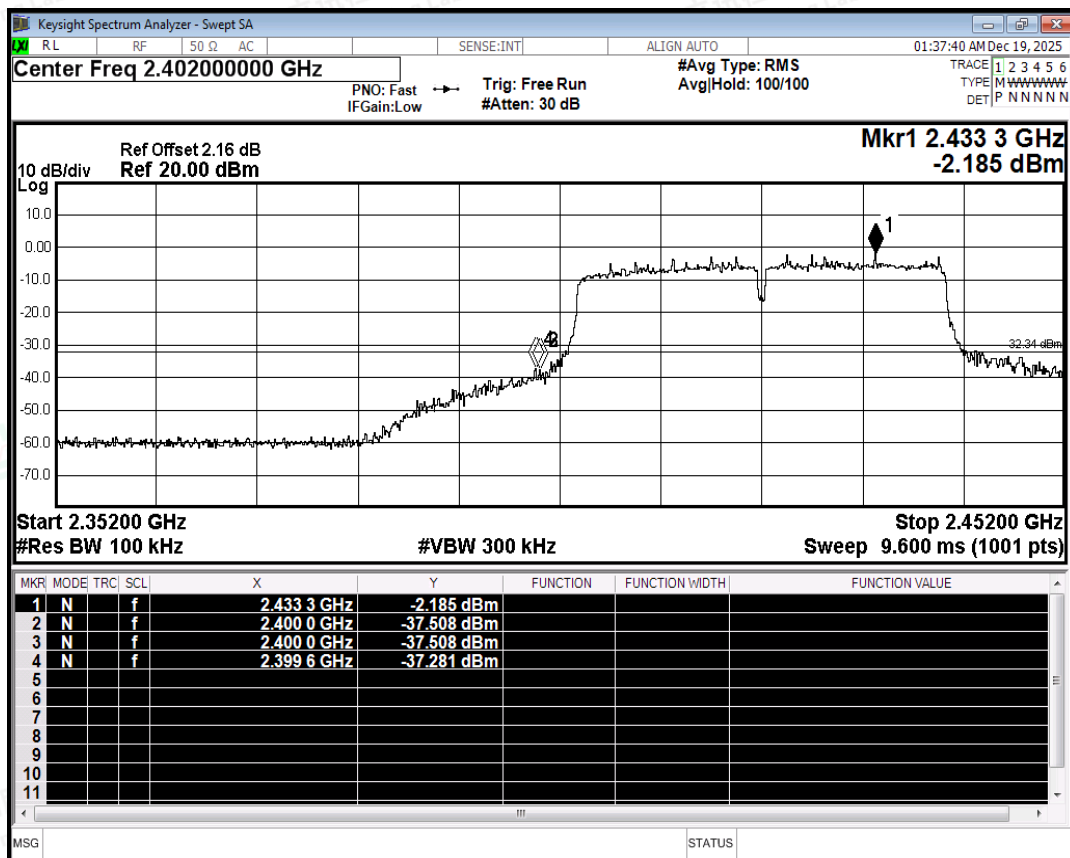
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Band Edge NVNT n40 2422MHz Ant1 Ref



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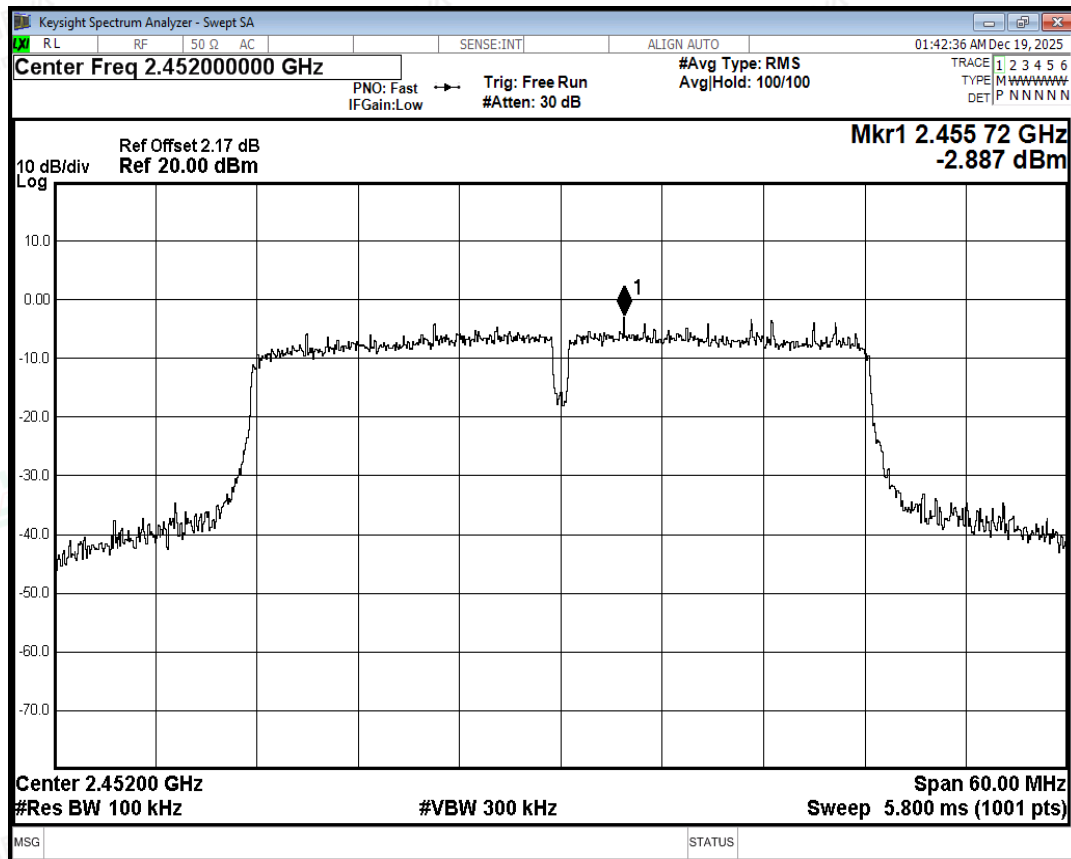
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Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref

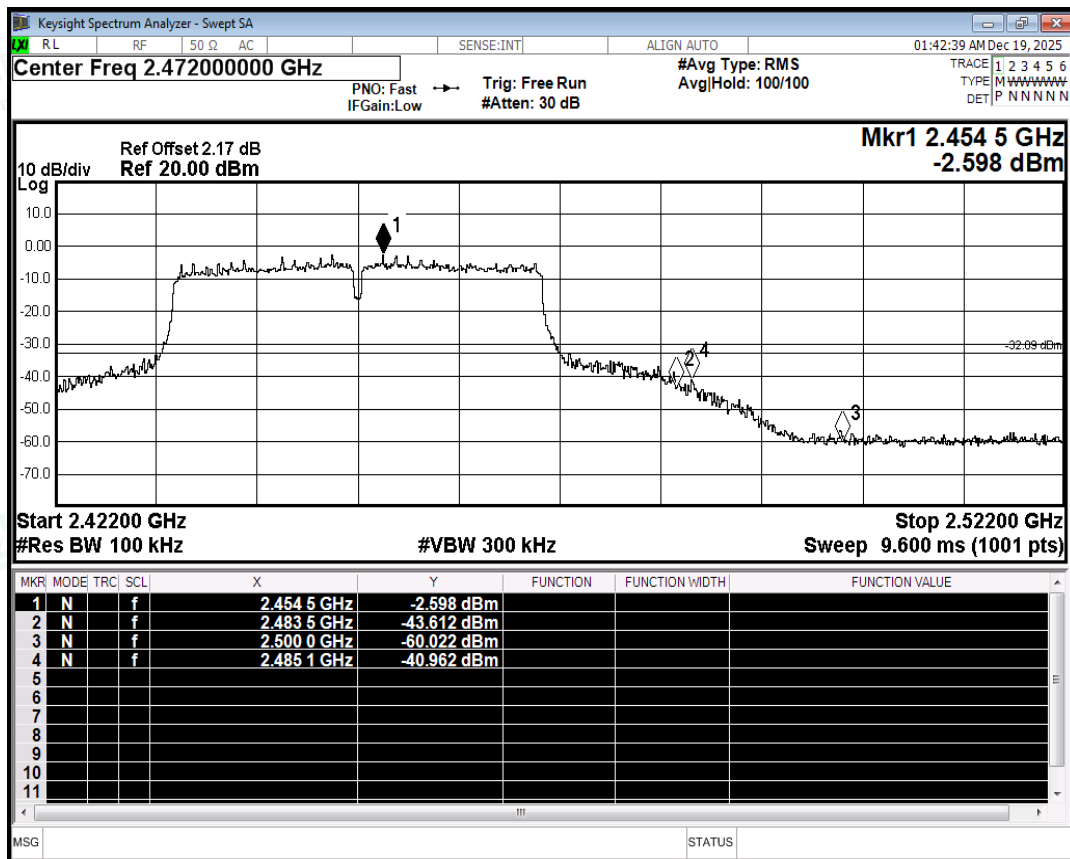


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Band Edge NVNT n40 2452MHz Ant1 Emission



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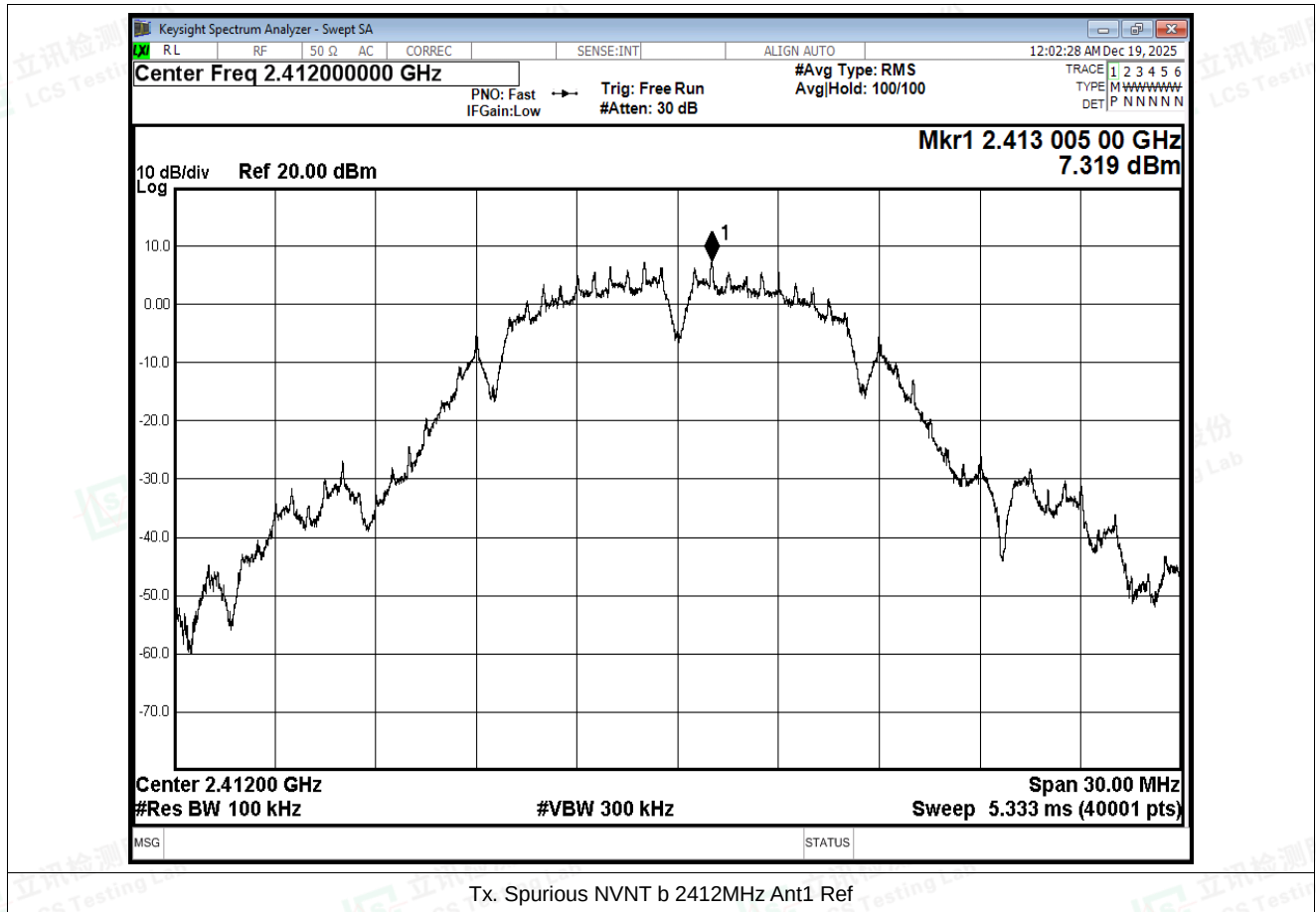
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.08	-30	Pass
NVNT	b	2437	Ant1	-44.7	-30	Pass
NVNT	b	2462	Ant1	-43.36	-30	Pass
NVNT	g	2412	Ant1	-39.62	-30	Pass
NVNT	g	2437	Ant1	-38.22	-30	Pass
NVNT	g	2462	Ant1	-36.92	-30	Pass
NVNT	n20	2412	Ant1	-37.77	-30	Pass
NVNT	n20	2437	Ant1	-38.35	-30	Pass
NVNT	n20	2462	Ant1	-38.1	-30	Pass
NVNT	n40	2422	Ant1	-35.24	-30	Pass
NVNT	n40	2437	Ant1	-34.8	-30	Pass
NVNT	n40	2452	Ant1	-35.41	-30	Pass

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.



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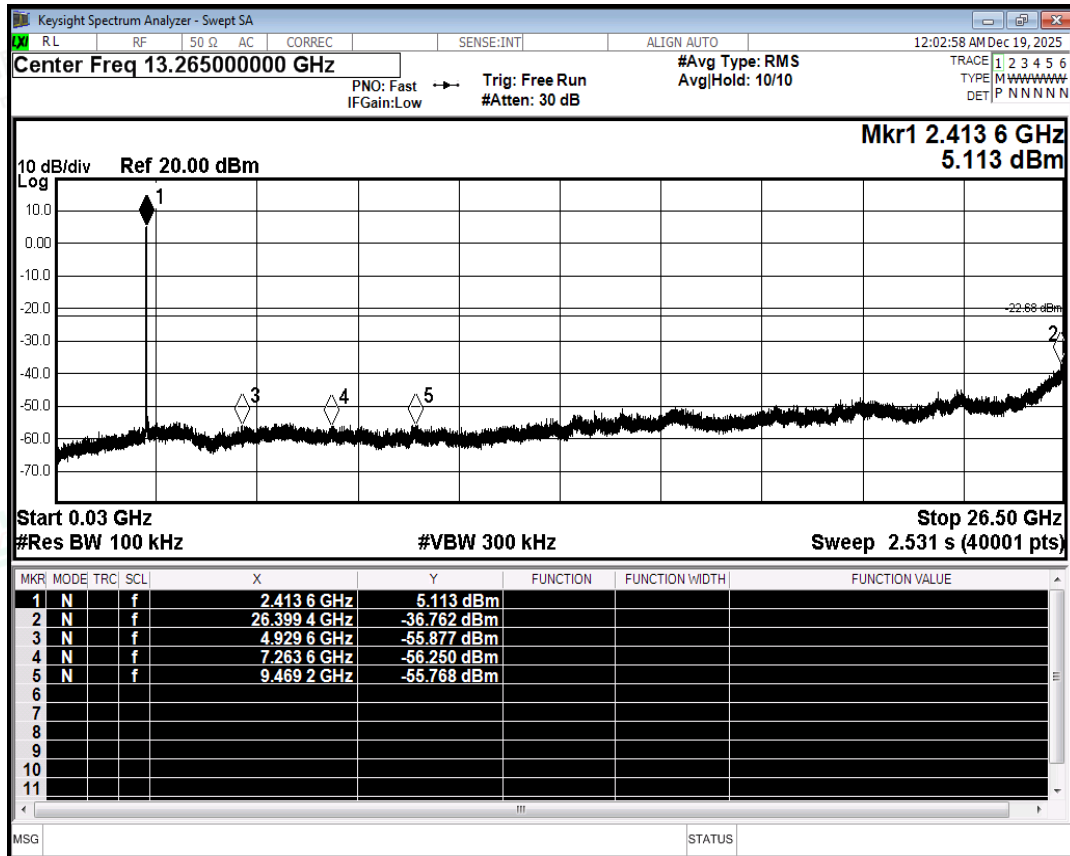


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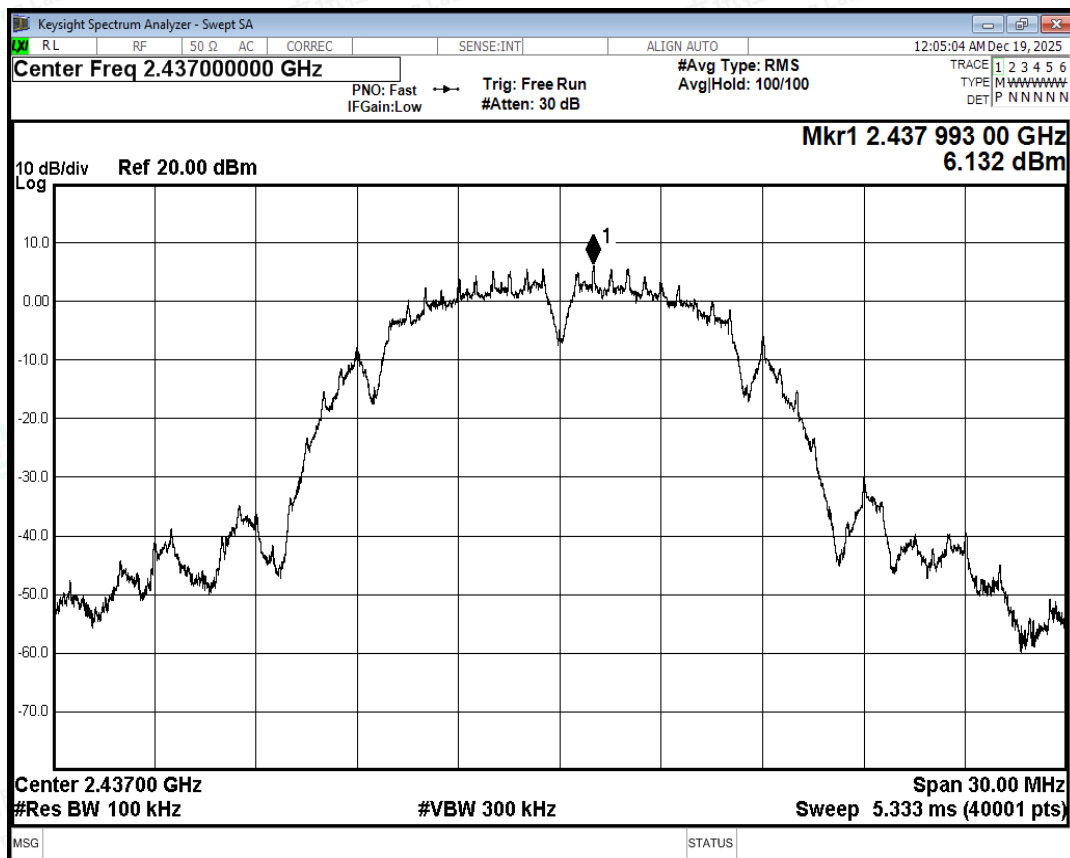
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2412MHz Ant1 Emission



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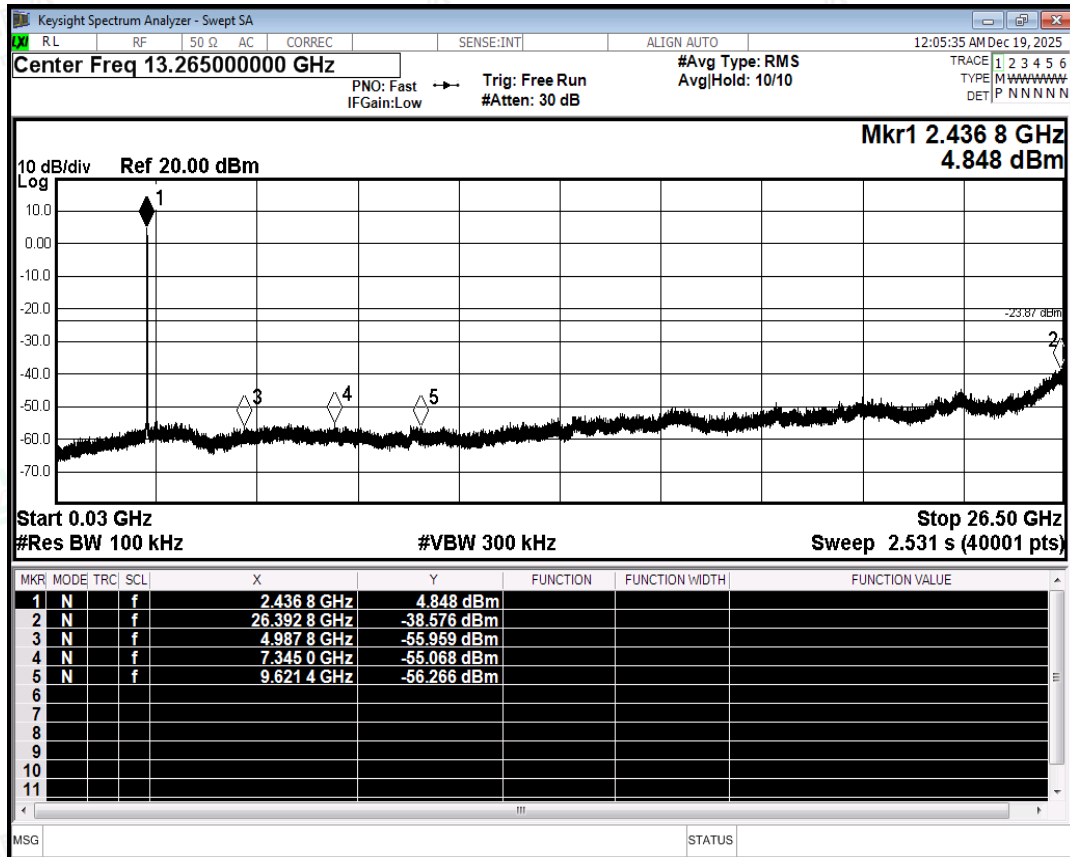
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

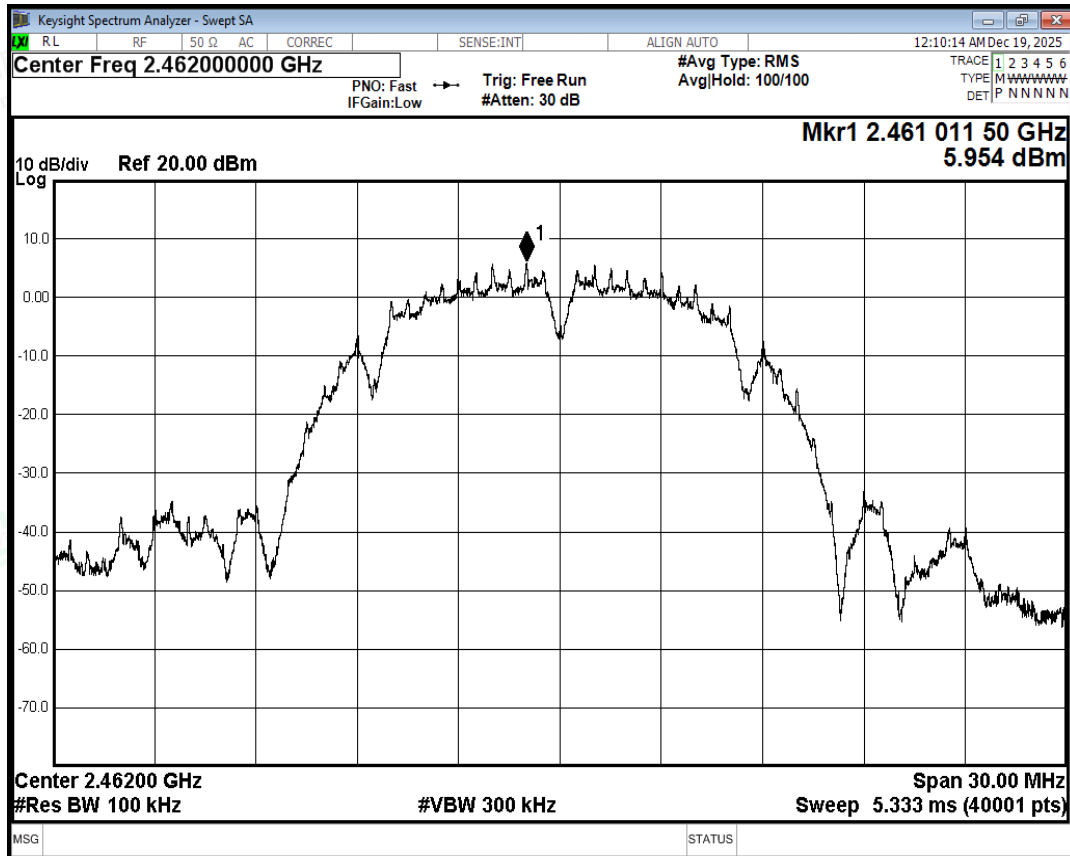


Shenzhen LCS Compliance Testing Laboratory Ltd.

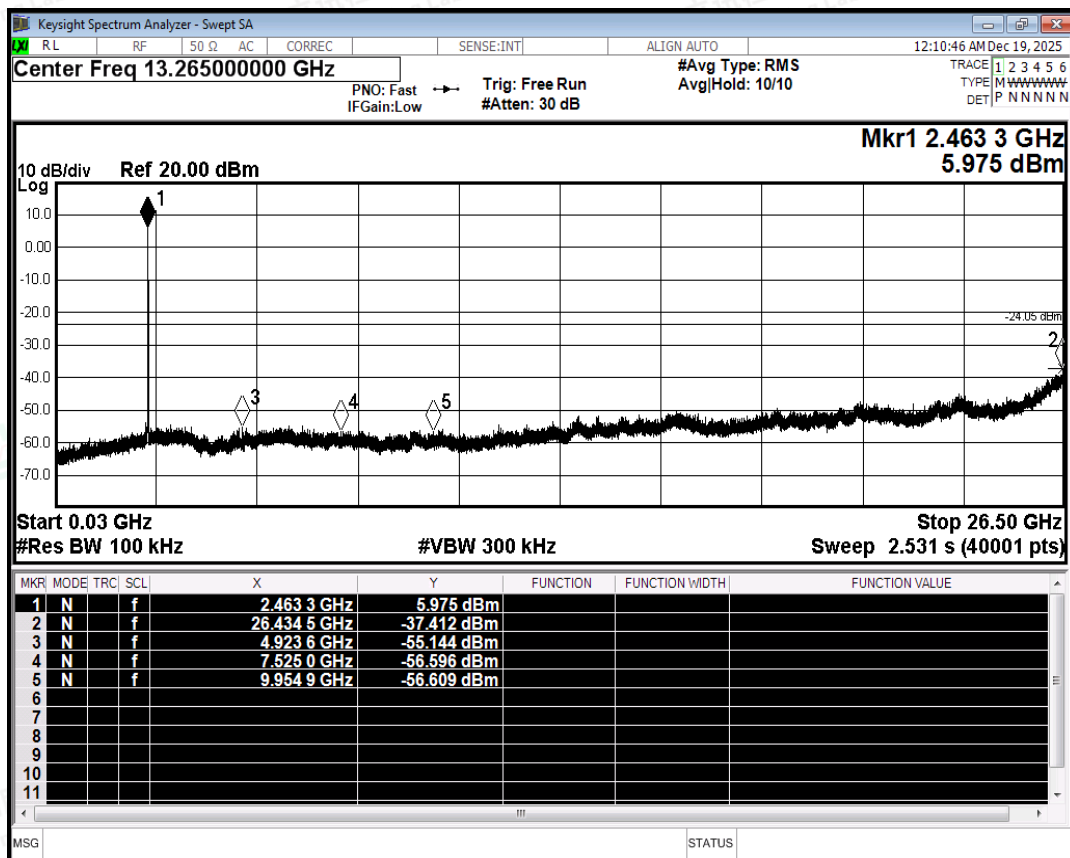
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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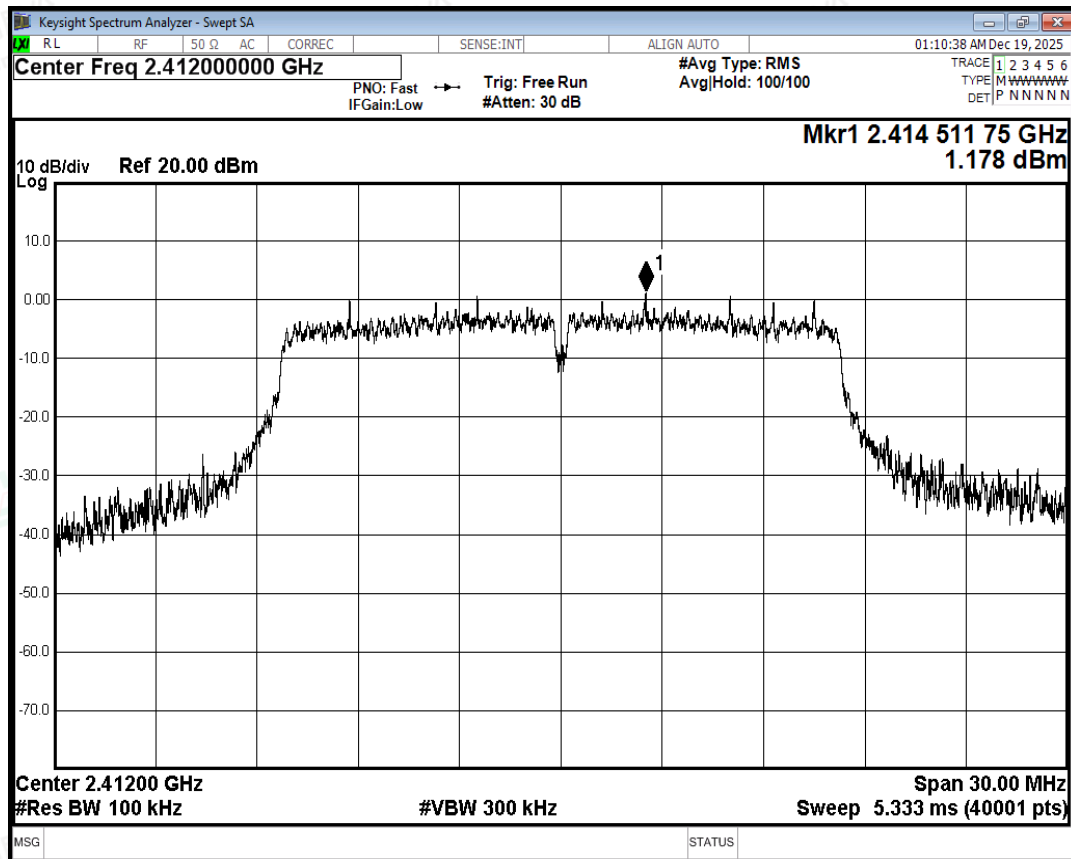
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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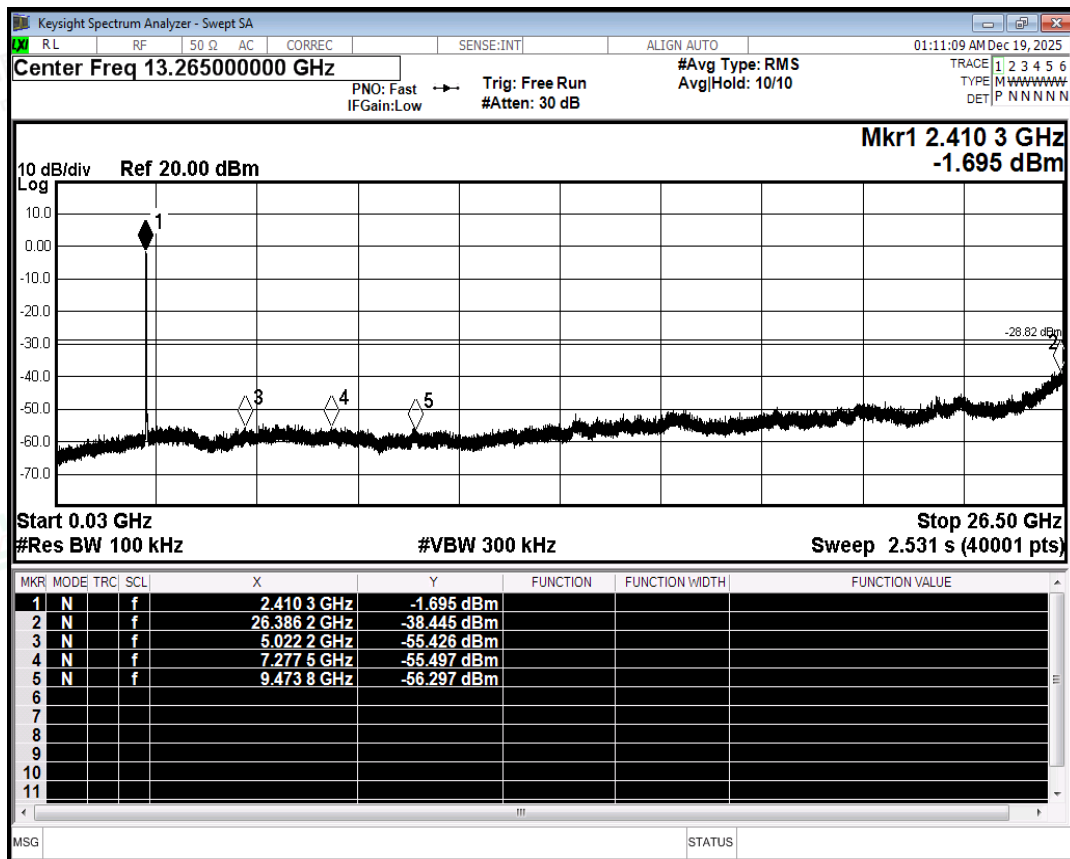


Tx. Spurious NVNT b 2462MHz Ant1 Emission

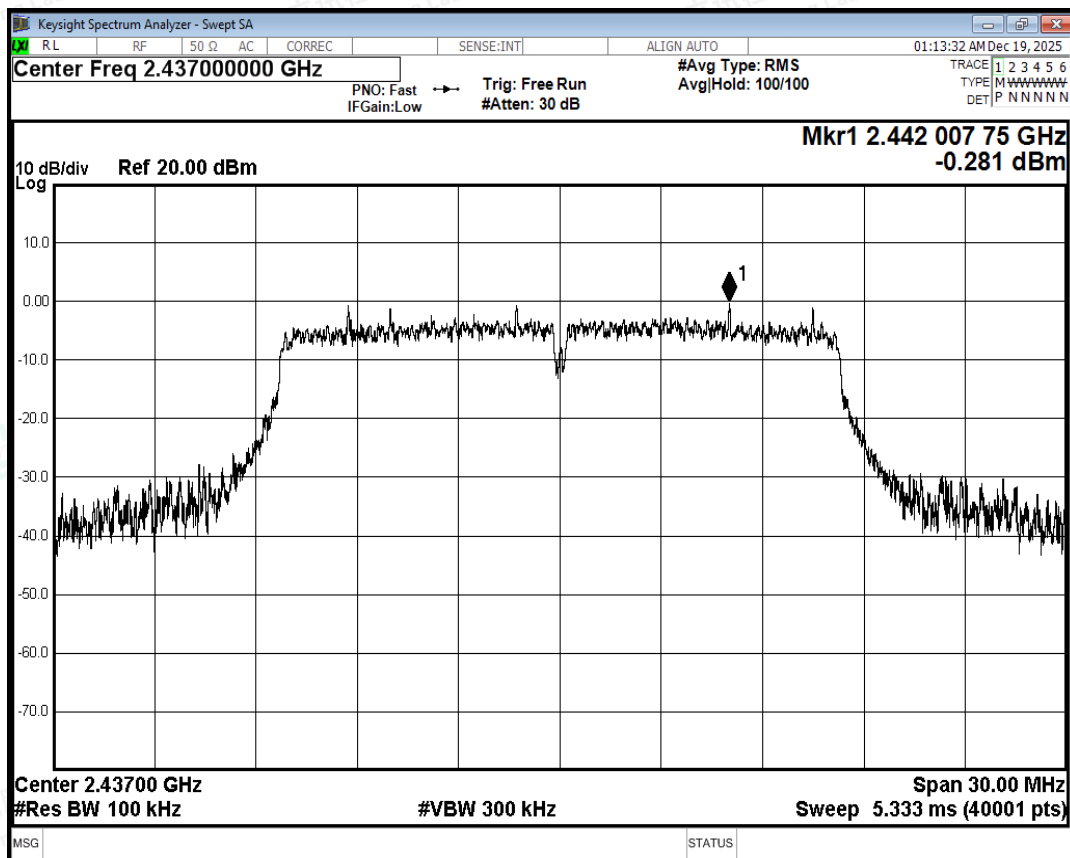


Tx. Spurious NVNT g 2412MHz Ant1 Ref





Tx. Spurious NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

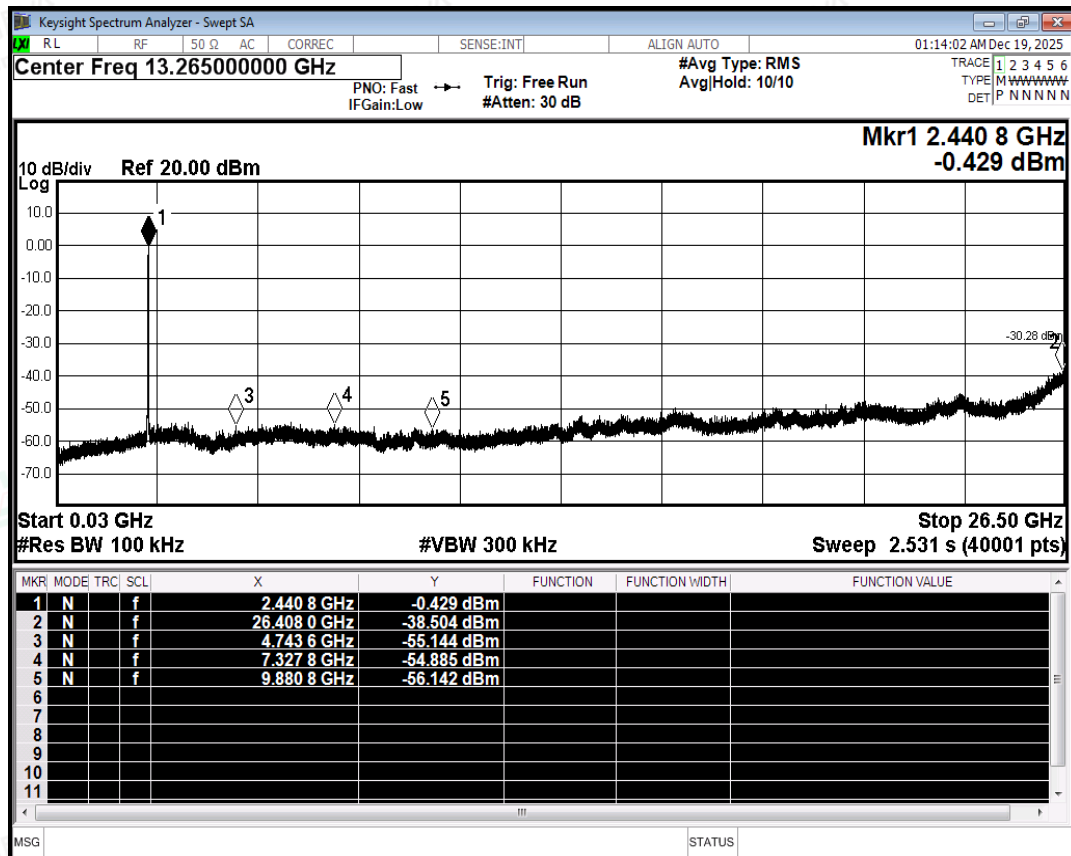
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

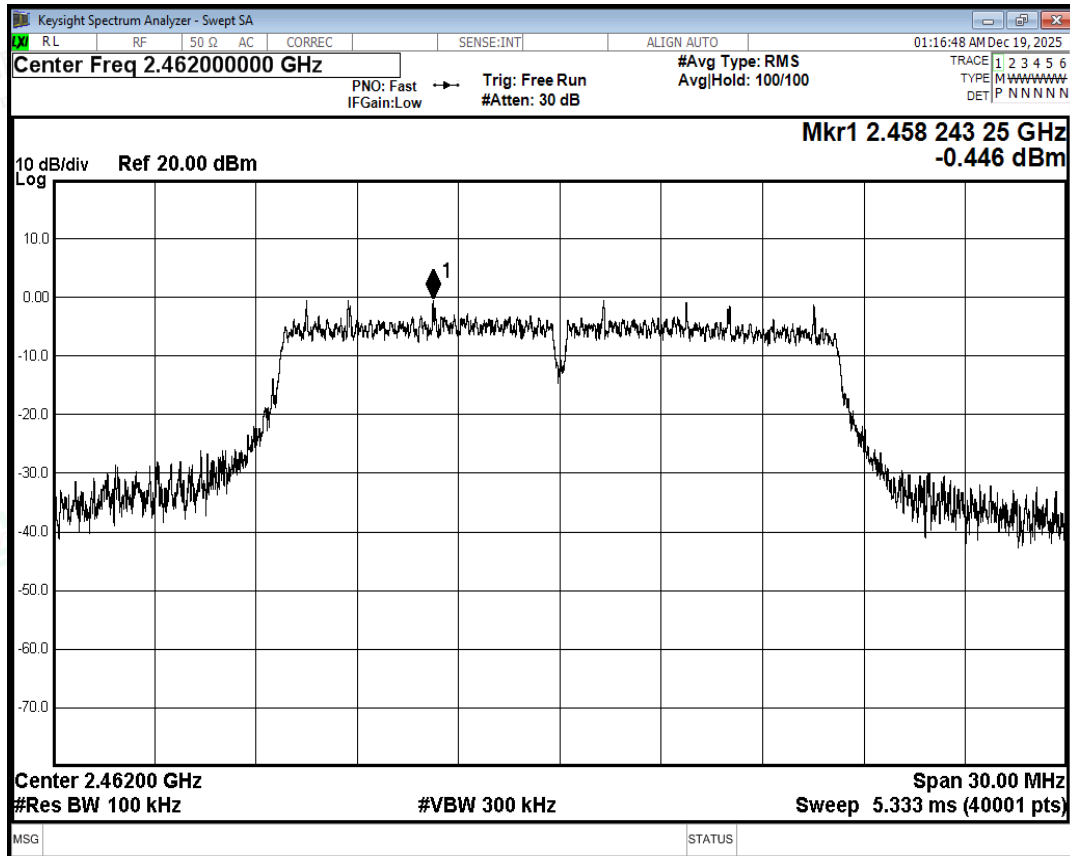


Shenzhen LCS Compliance Testing Laboratory Ltd.

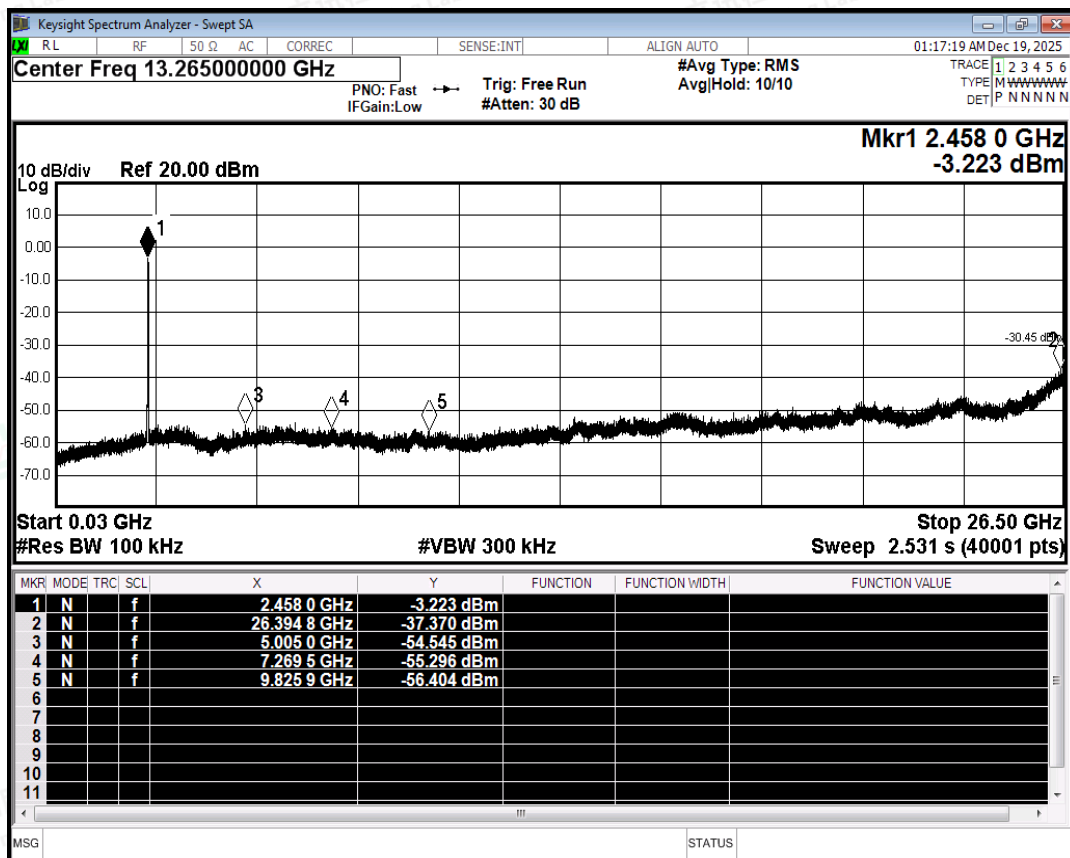
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant1 Ref



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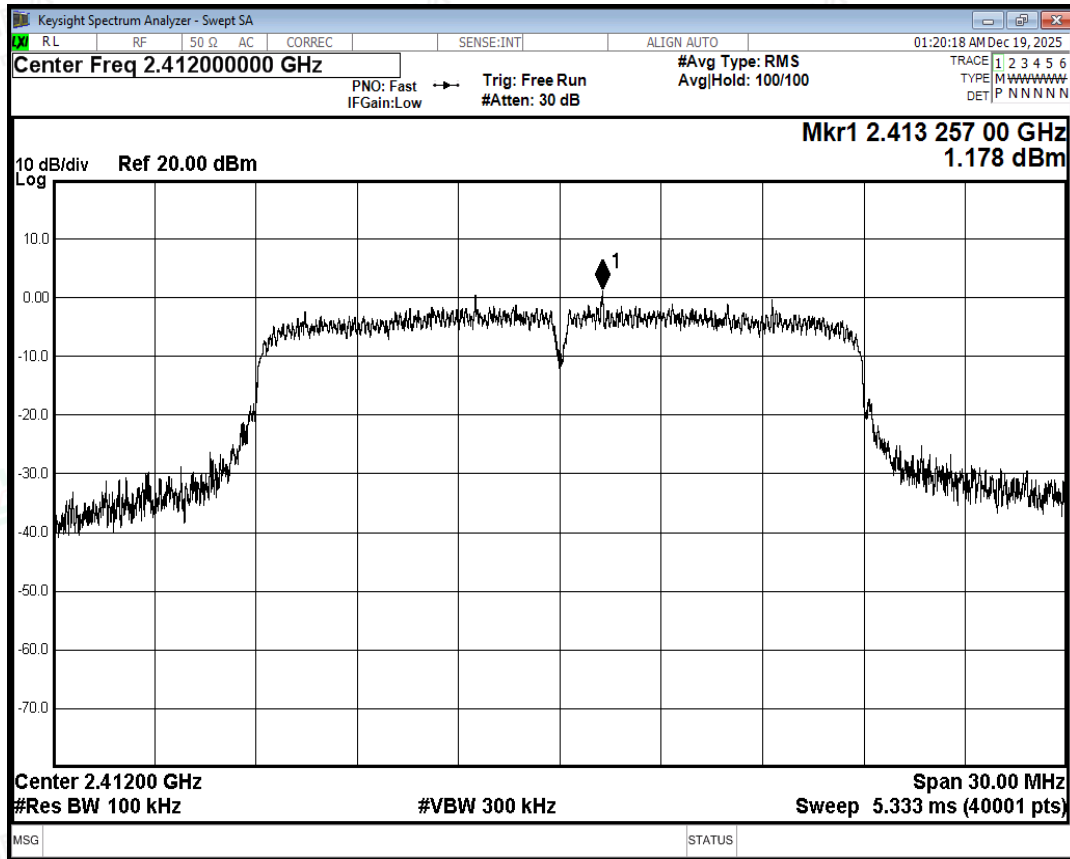
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant1 Ref

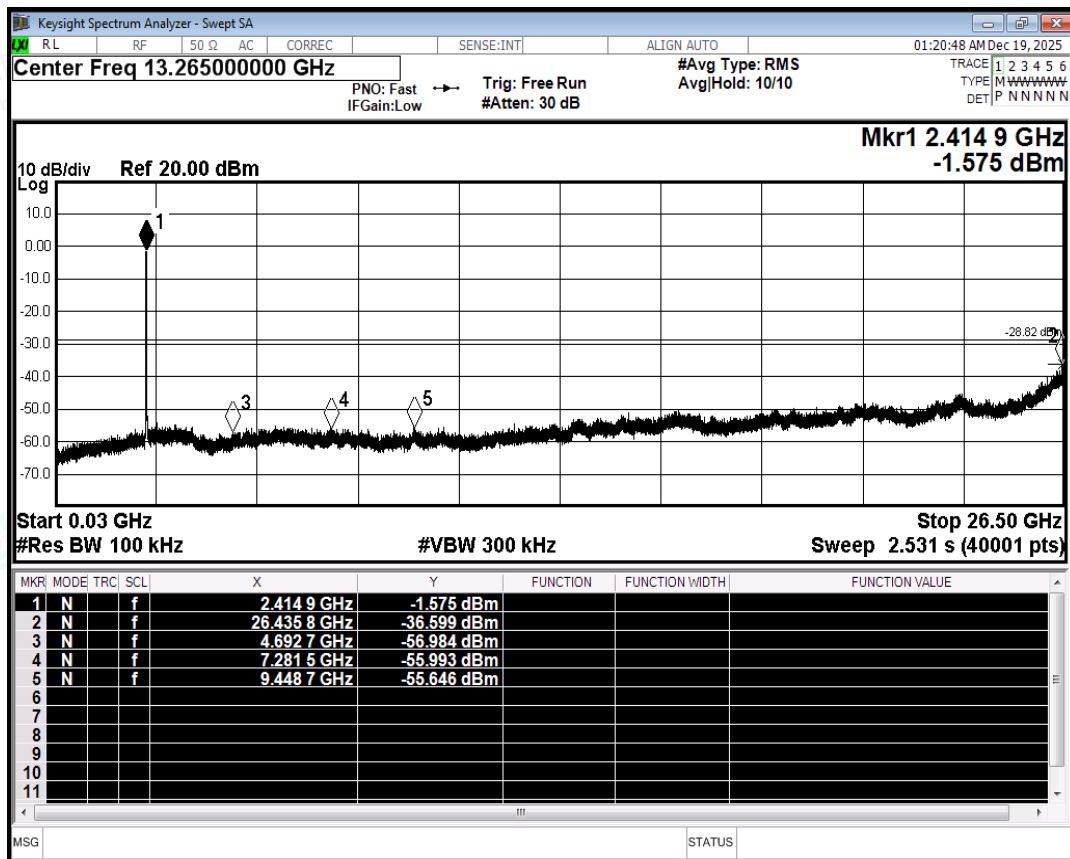


Shenzhen LCS Compliance Testing Laboratory Ltd.

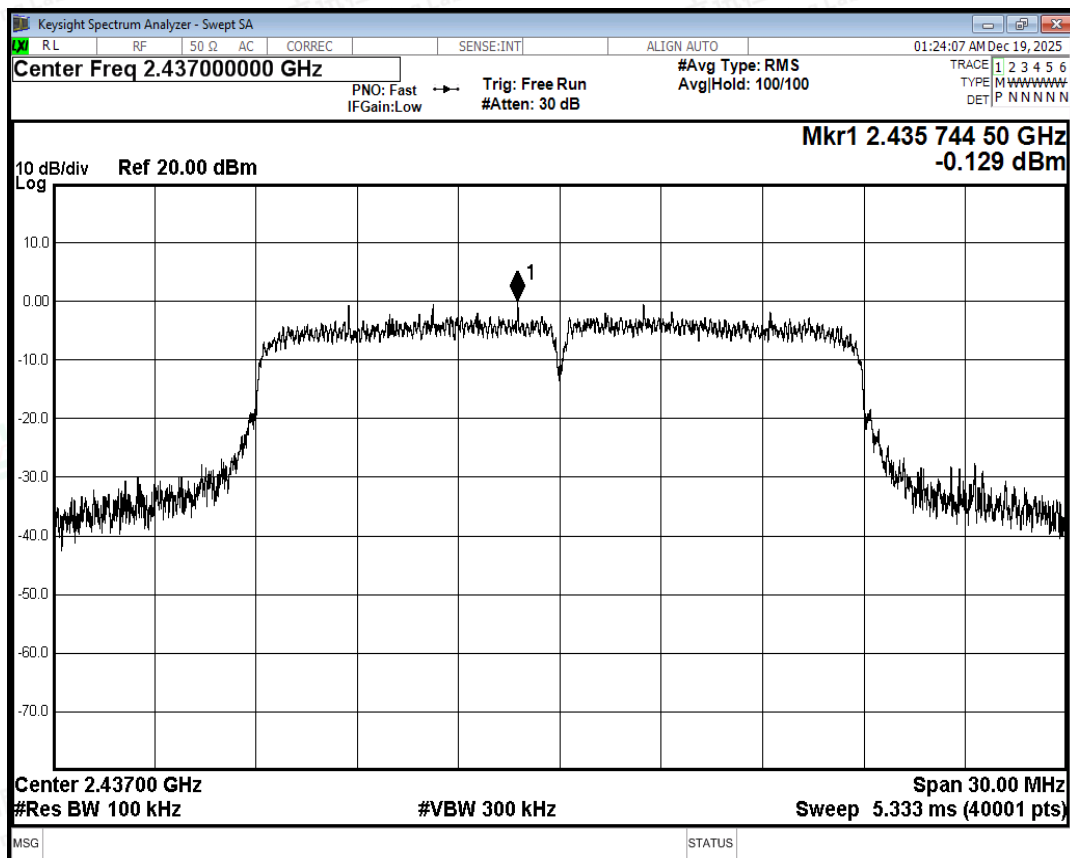
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

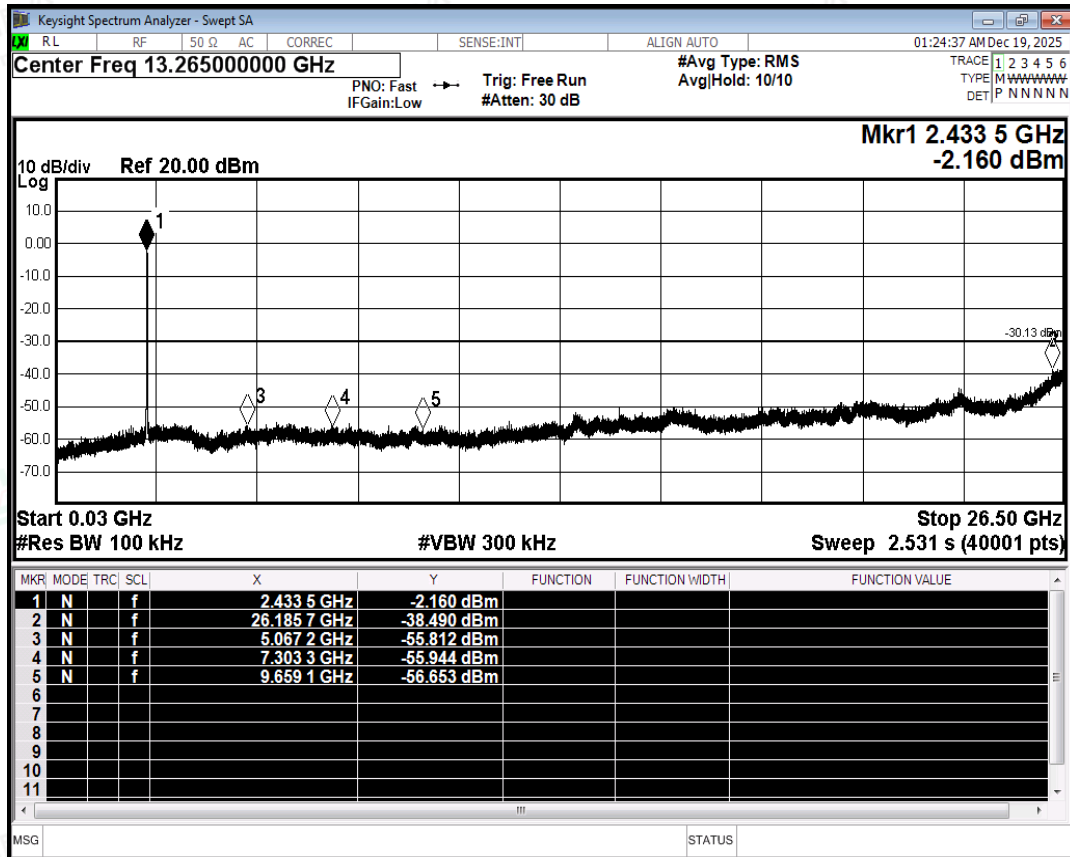
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

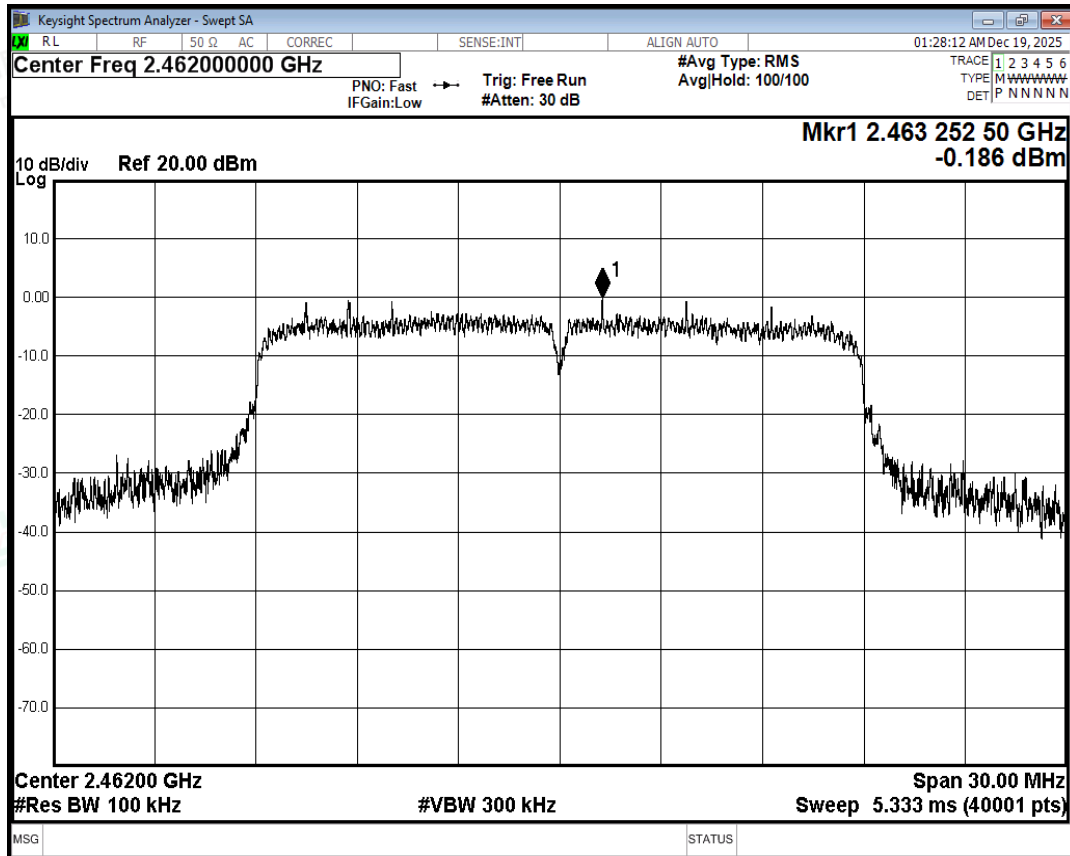


Shenzhen LCS Compliance Testing Laboratory Ltd.

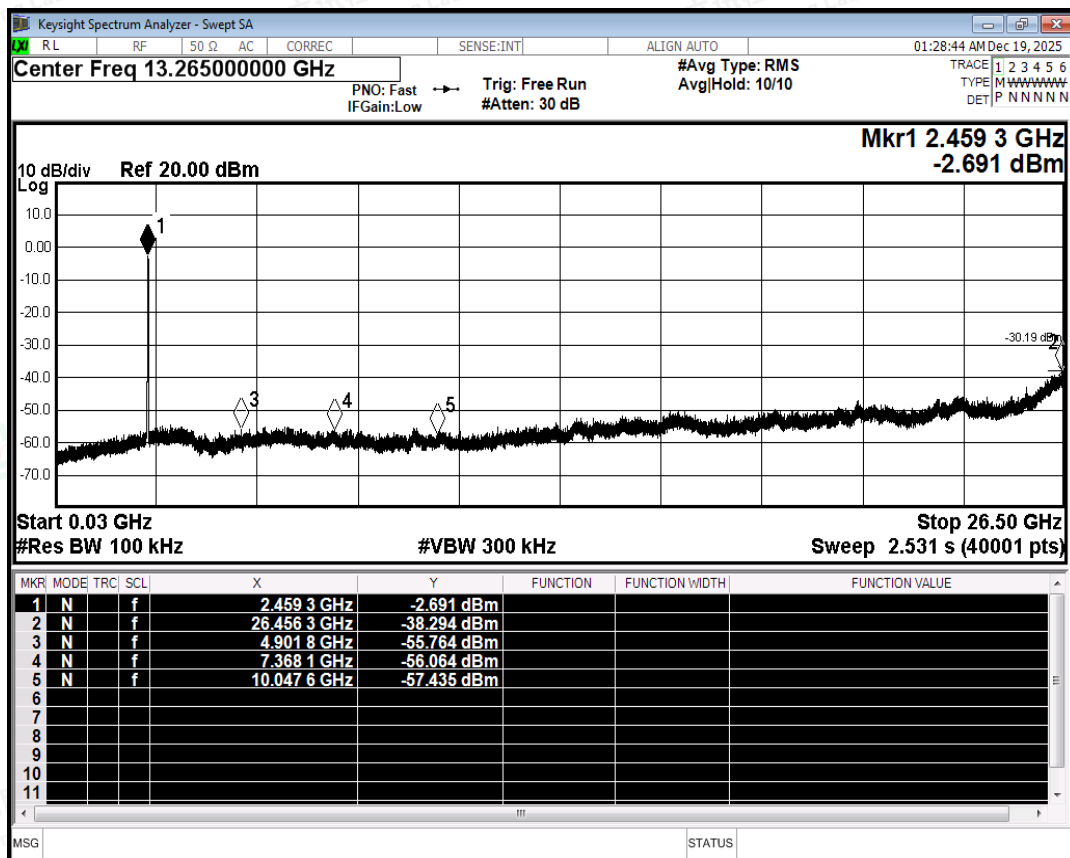
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



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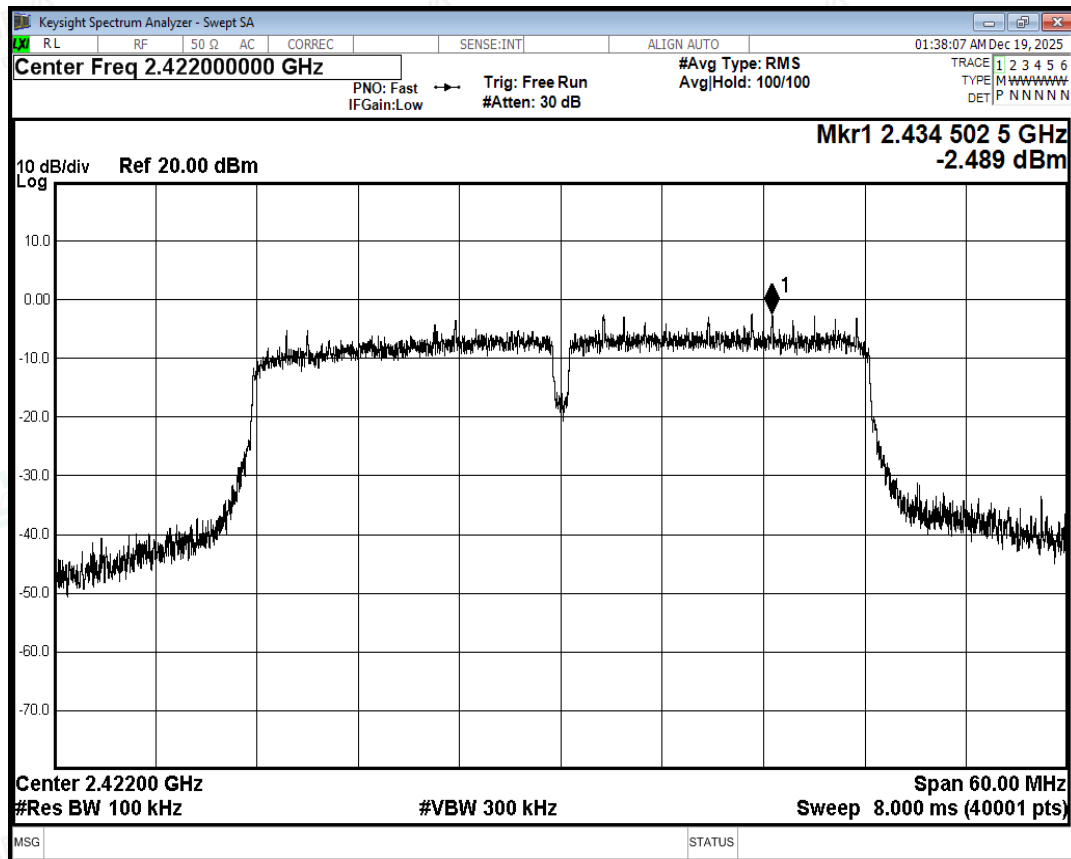
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2422MHz Ant1 Ref

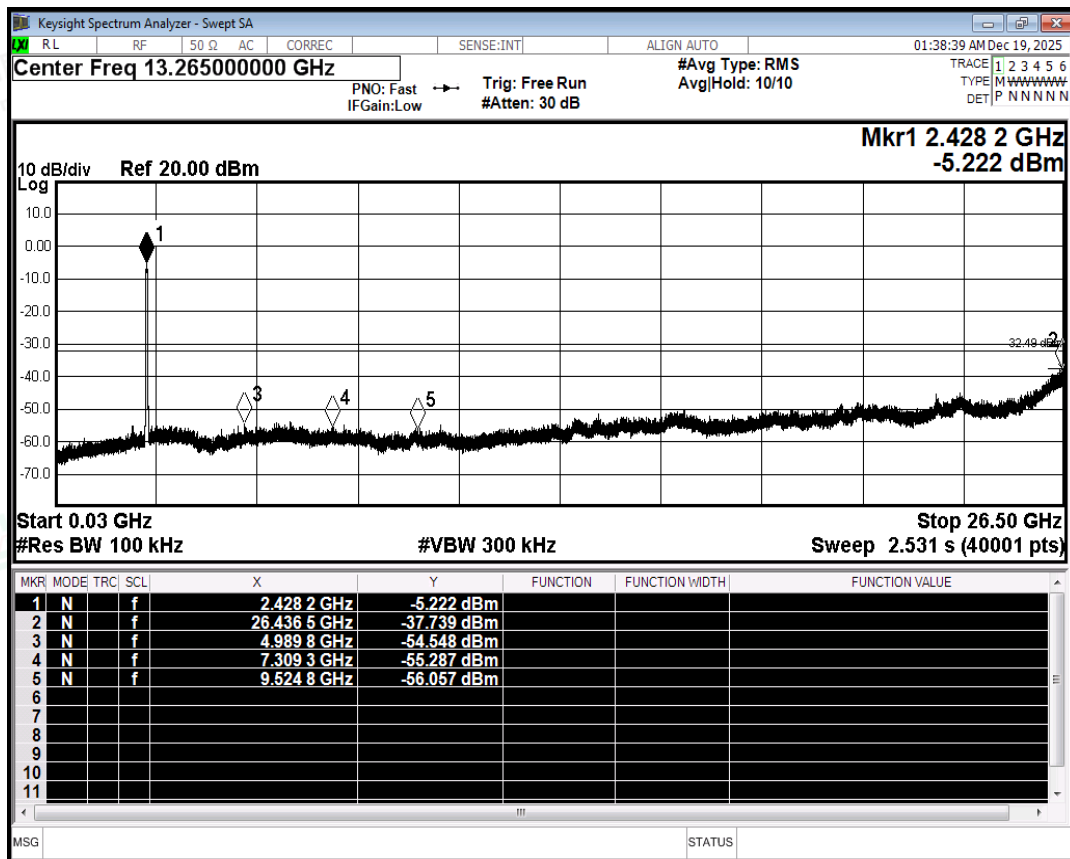


Shenzhen LCS Compliance Testing Laboratory Ltd.

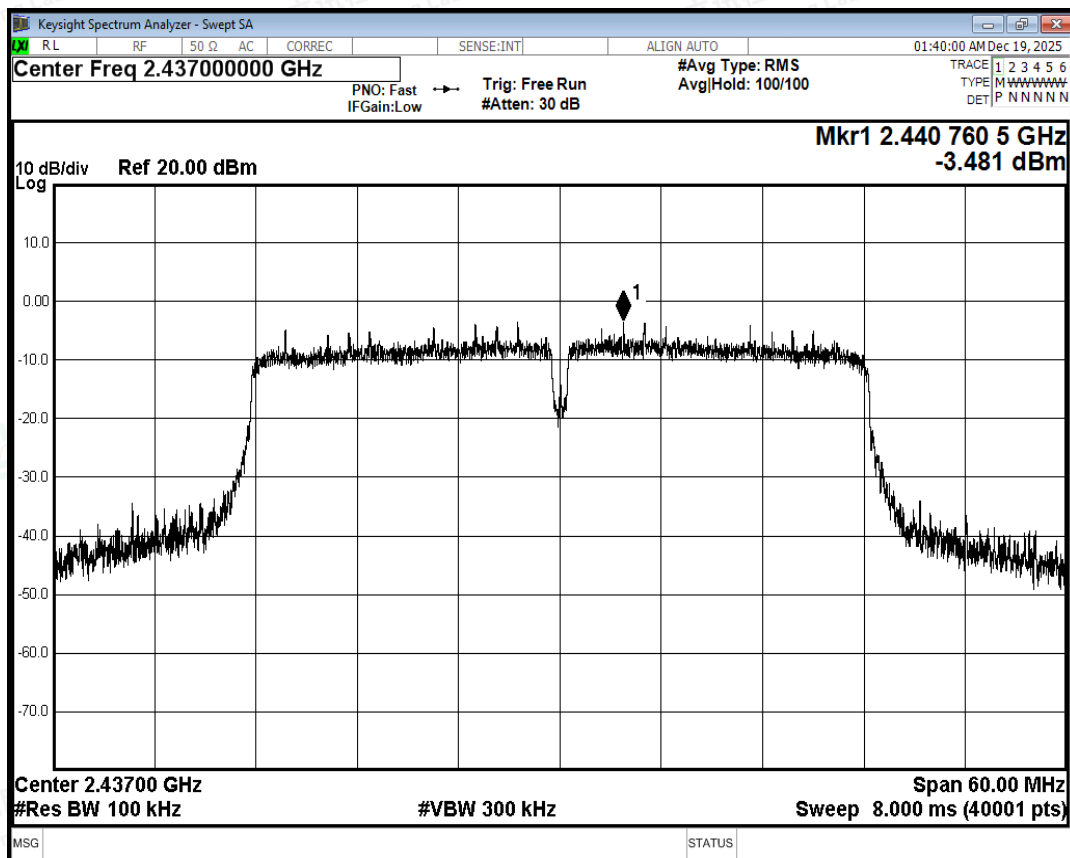
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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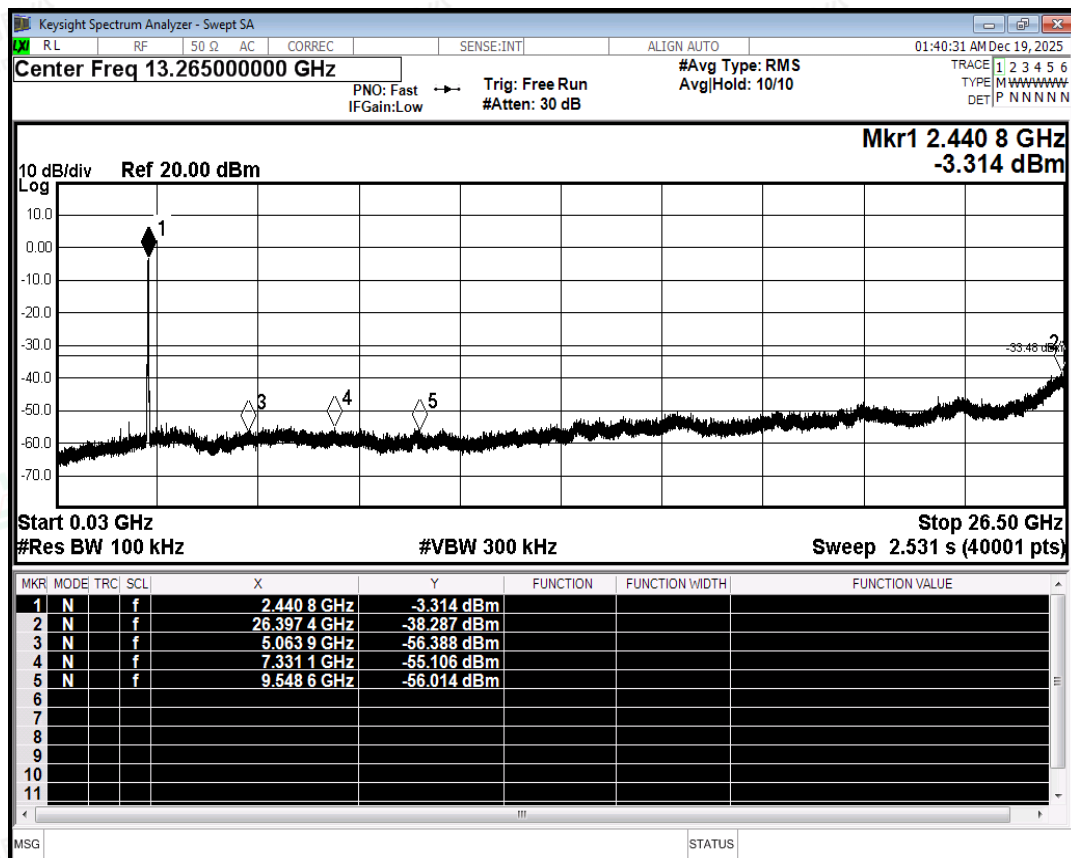


Tx. Spurious NVNT n40 2422MHz Ant1 Emission





Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission

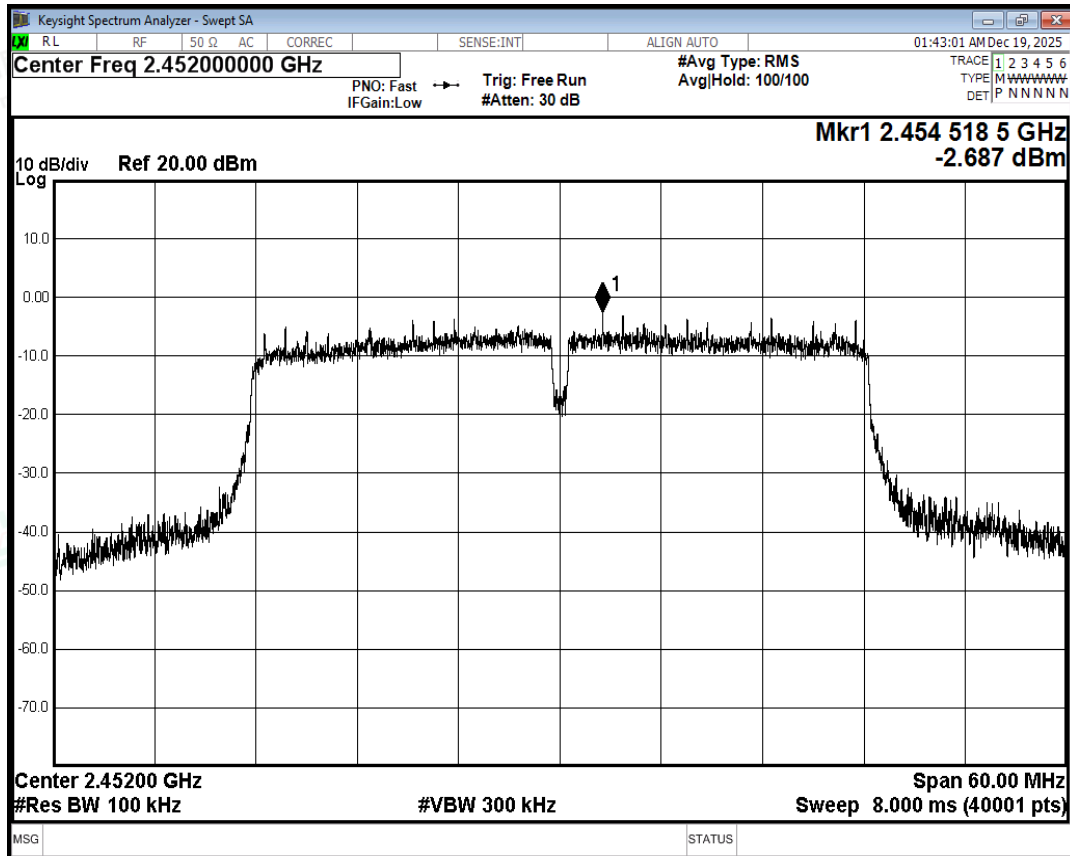


Shenzhen LCS Compliance Testing Laboratory Ltd.

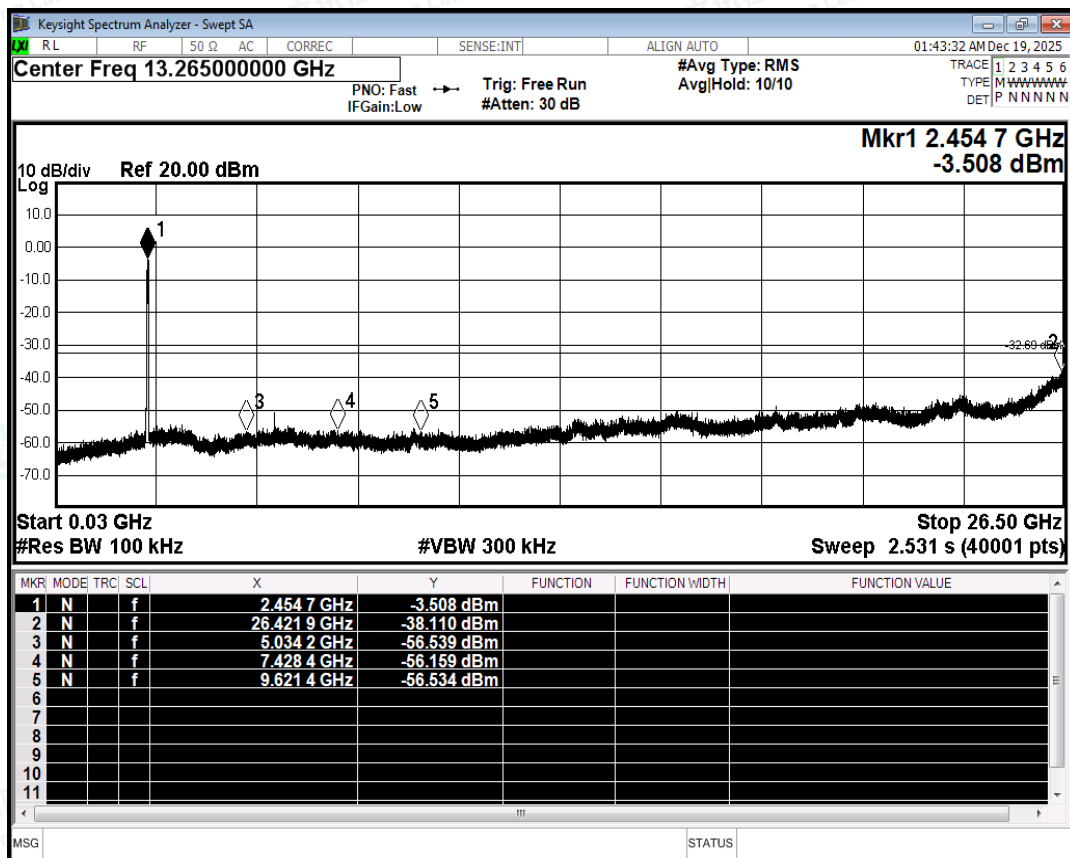
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2452MHz Ant1 Ref



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Tx. Spurious NVNT n40 2452MHz Ant1 Emission

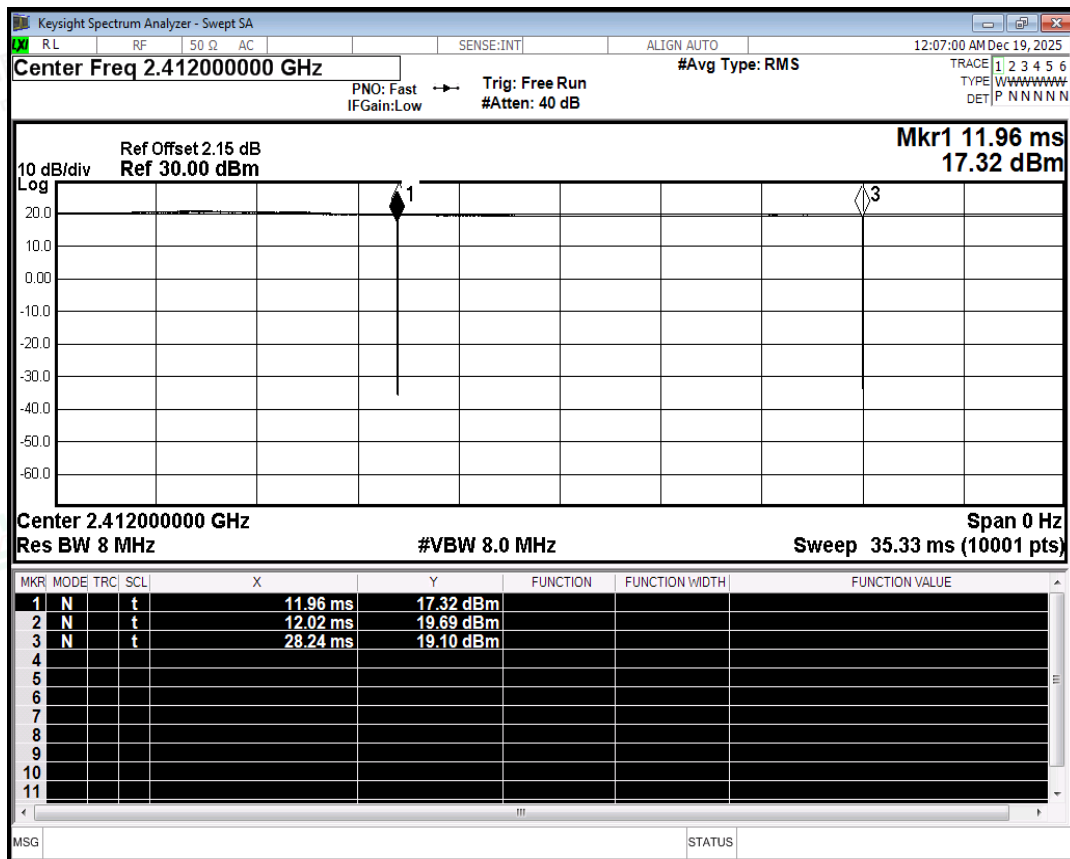




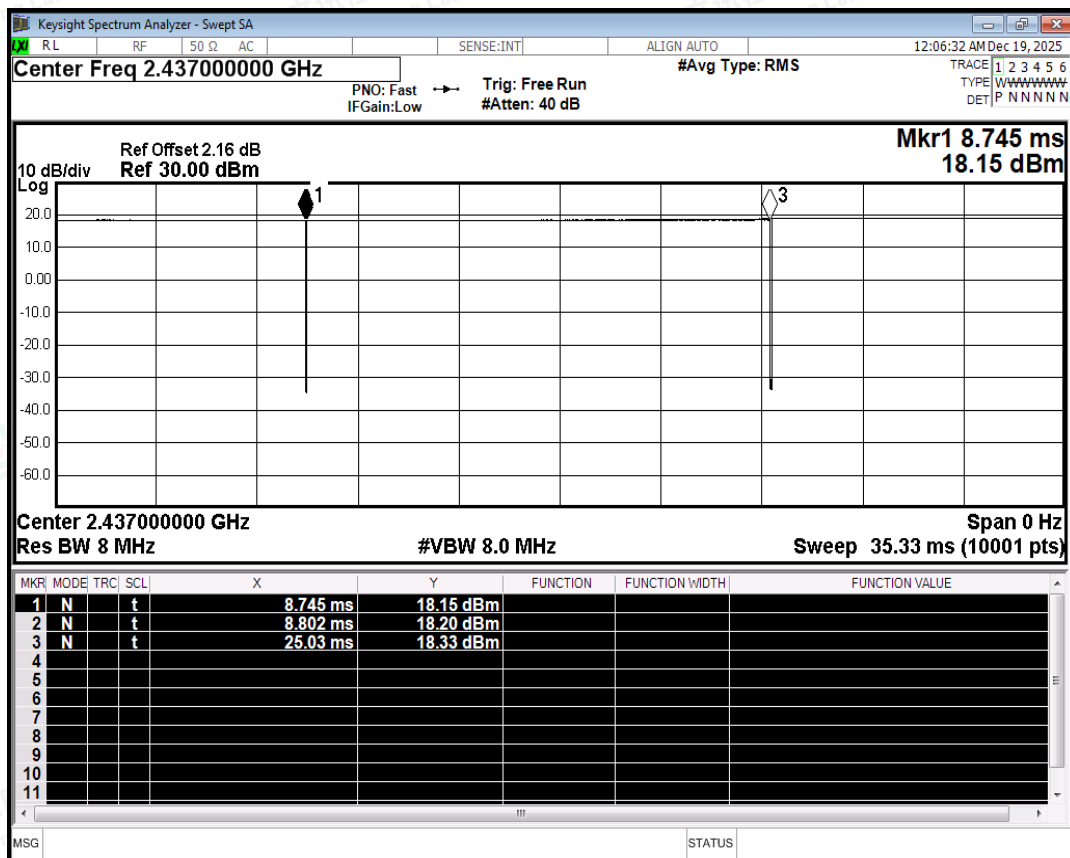
B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.65	0.02	0.06
NVNT	b	2437	Ant1	99.65	0.02	0.06
NVNT	b	2462	Ant1	99.65	0.02	0.06
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.25	0.12	0.44
NVNT	n20	2437	Ant1	97.25	0.12	0.44
NVNT	n20	2462	Ant1	97.25	0.12	0.44
NVNT	n40	2422	Ant1	94.71	0.24	0.9
NVNT	n40	2437	Ant1	94.7	0.24	0.9
NVNT	n40	2452	Ant1	94.71	0.24	0.9





Duty Cycle NVNT b 2412MHz Ant1



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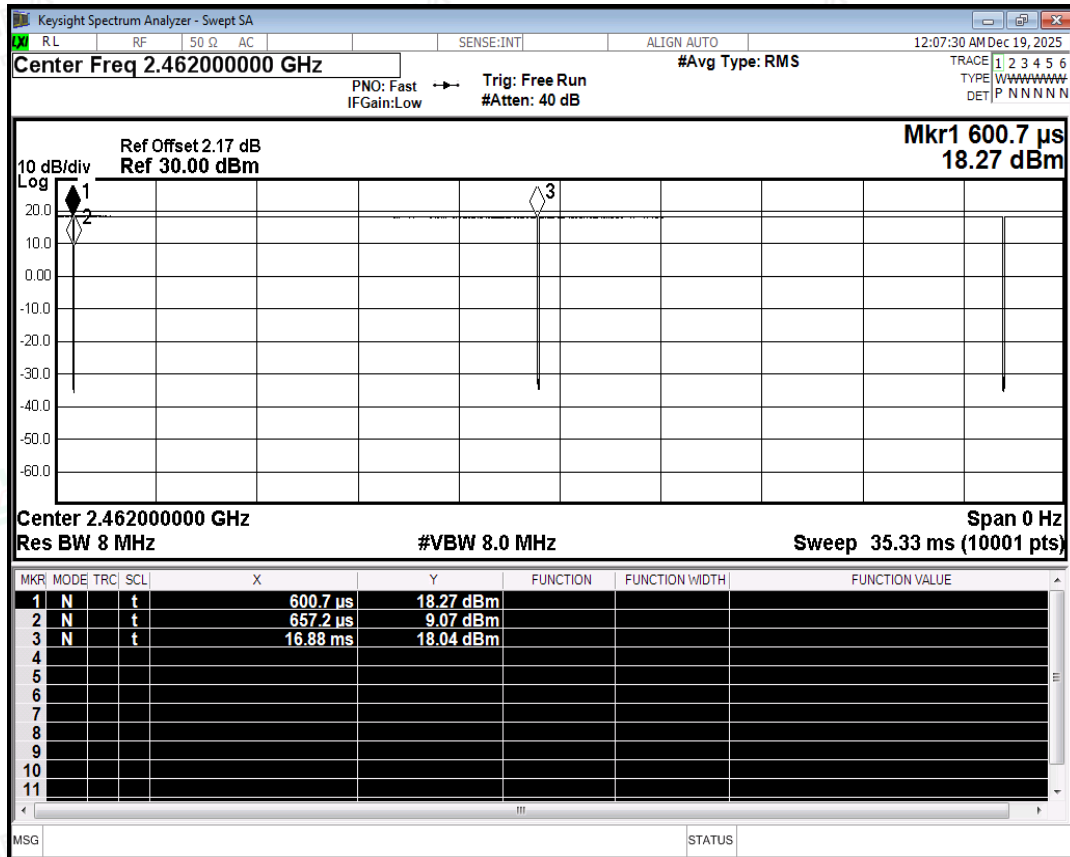
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT b 2437MHz Ant1



Duty Cycle NVNT b 2462MHz Ant1

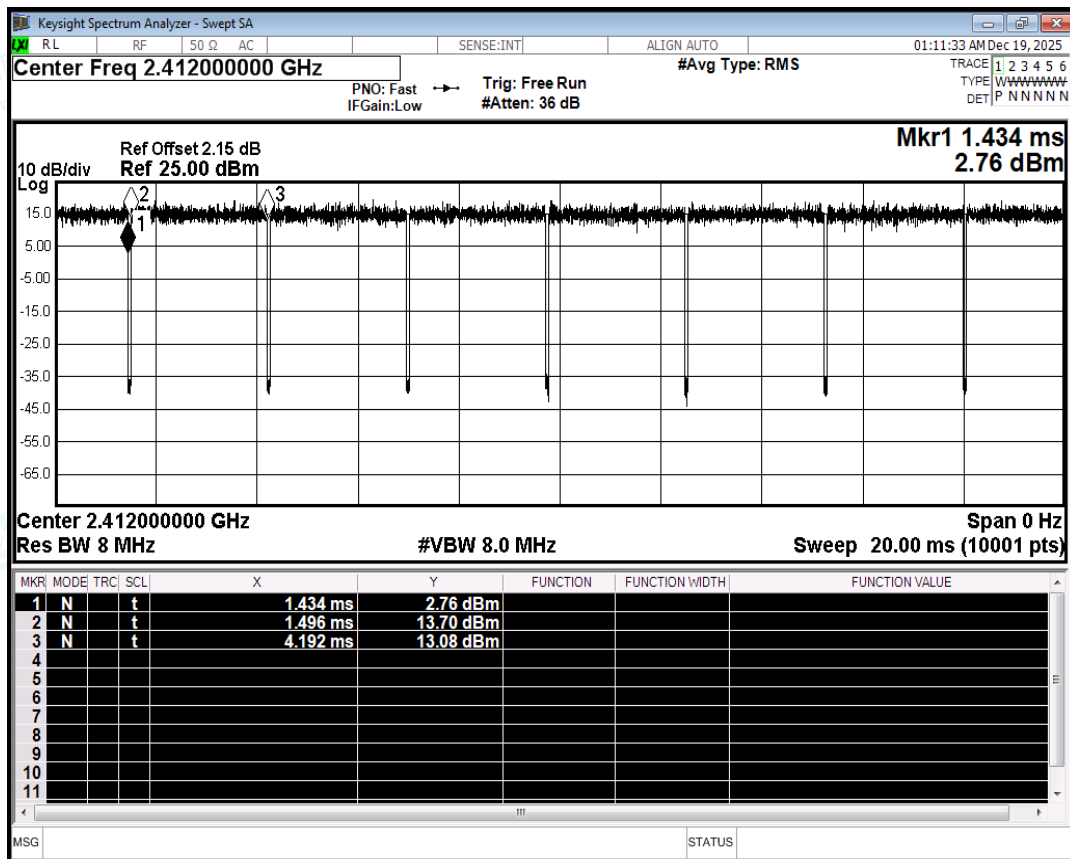


Shenzhen LCS Compliance Testing Laboratory Ltd.

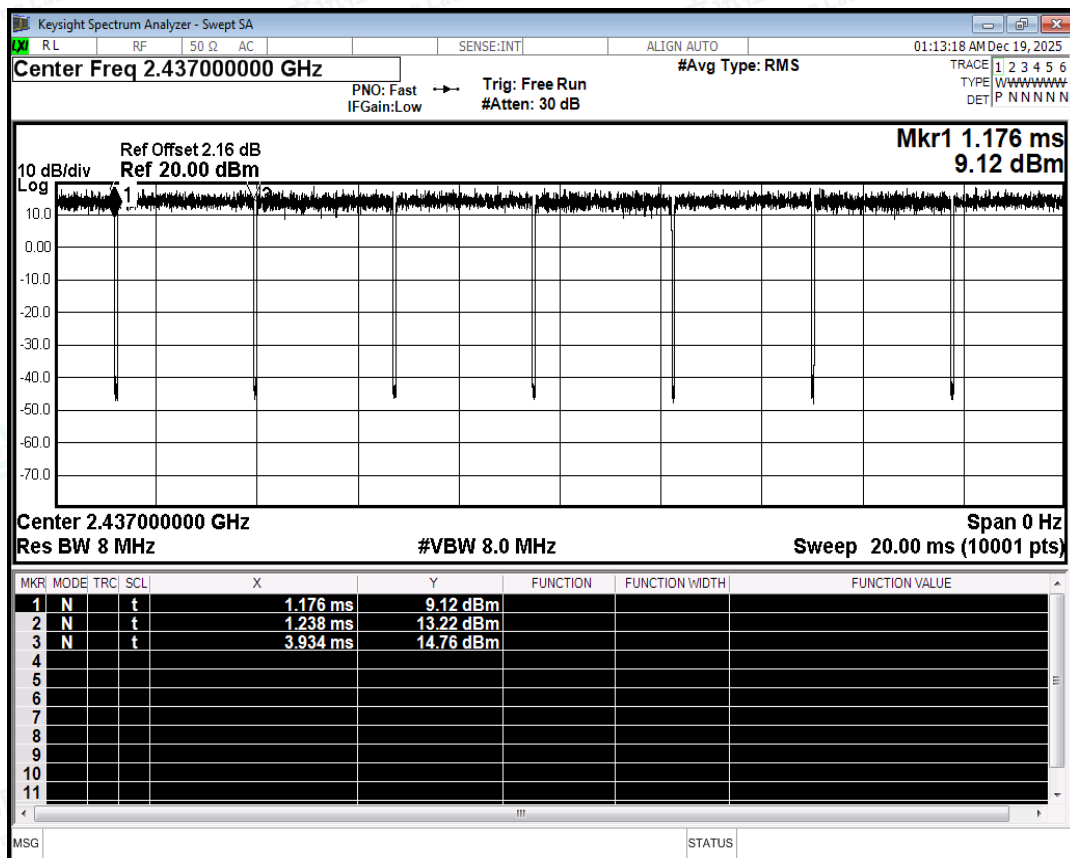
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT g 2412MHz Ant1



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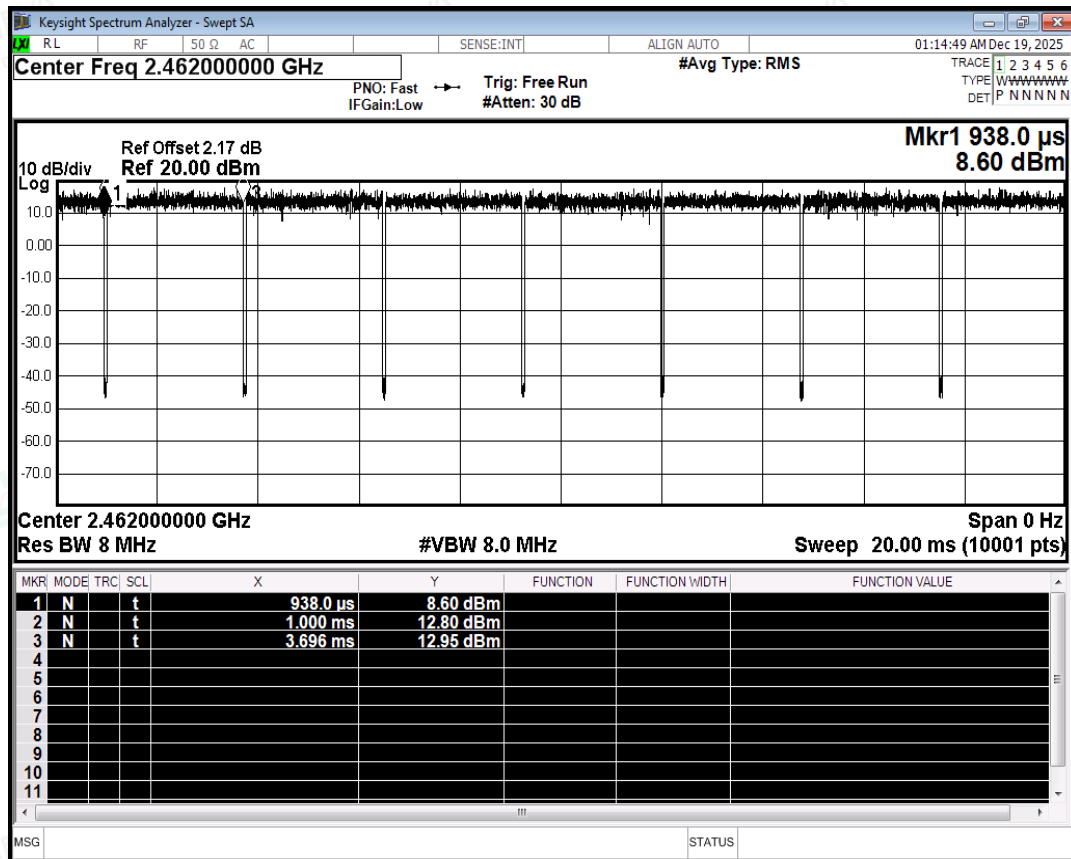
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

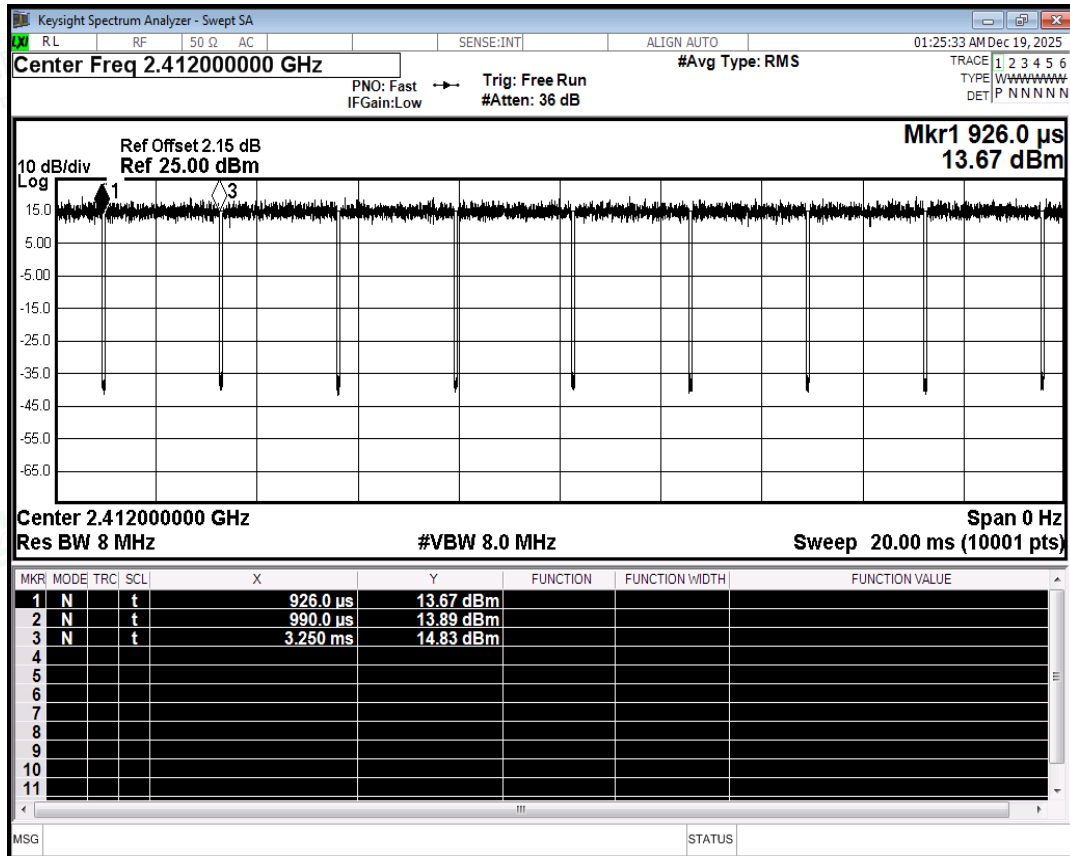


Shenzhen LCS Compliance Testing Laboratory Ltd.

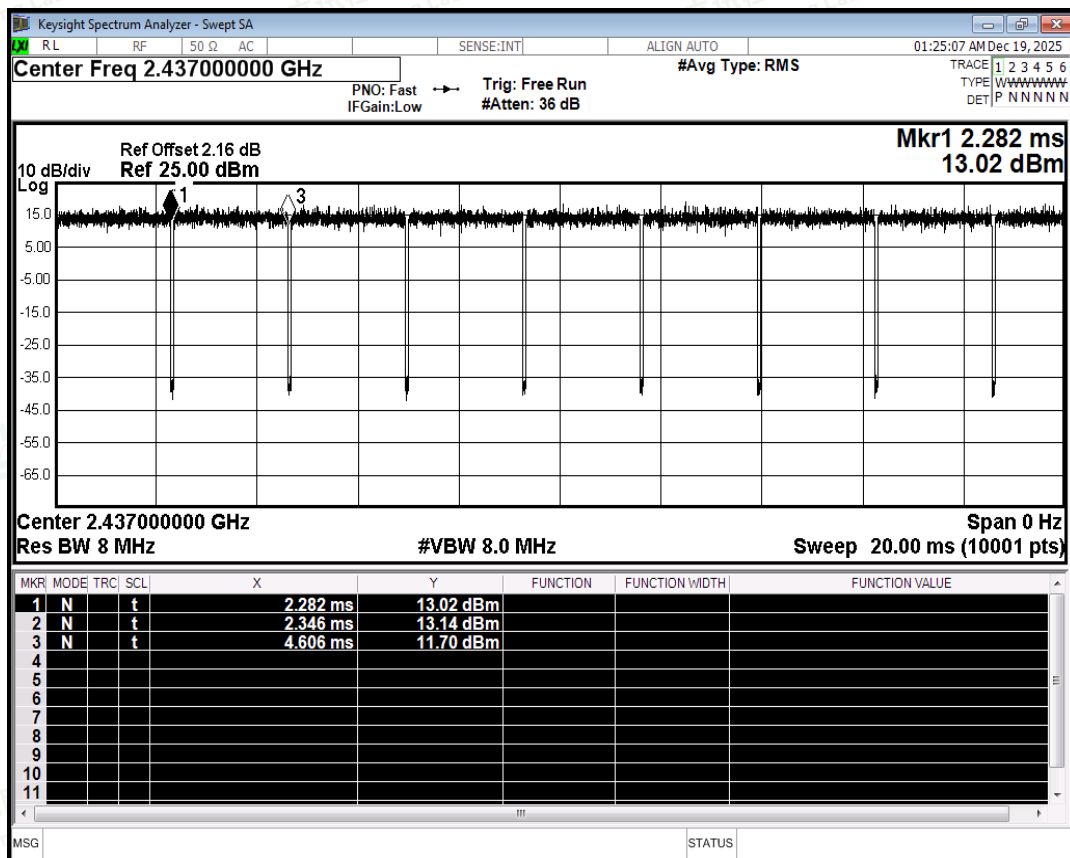
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2412MHz Ant1



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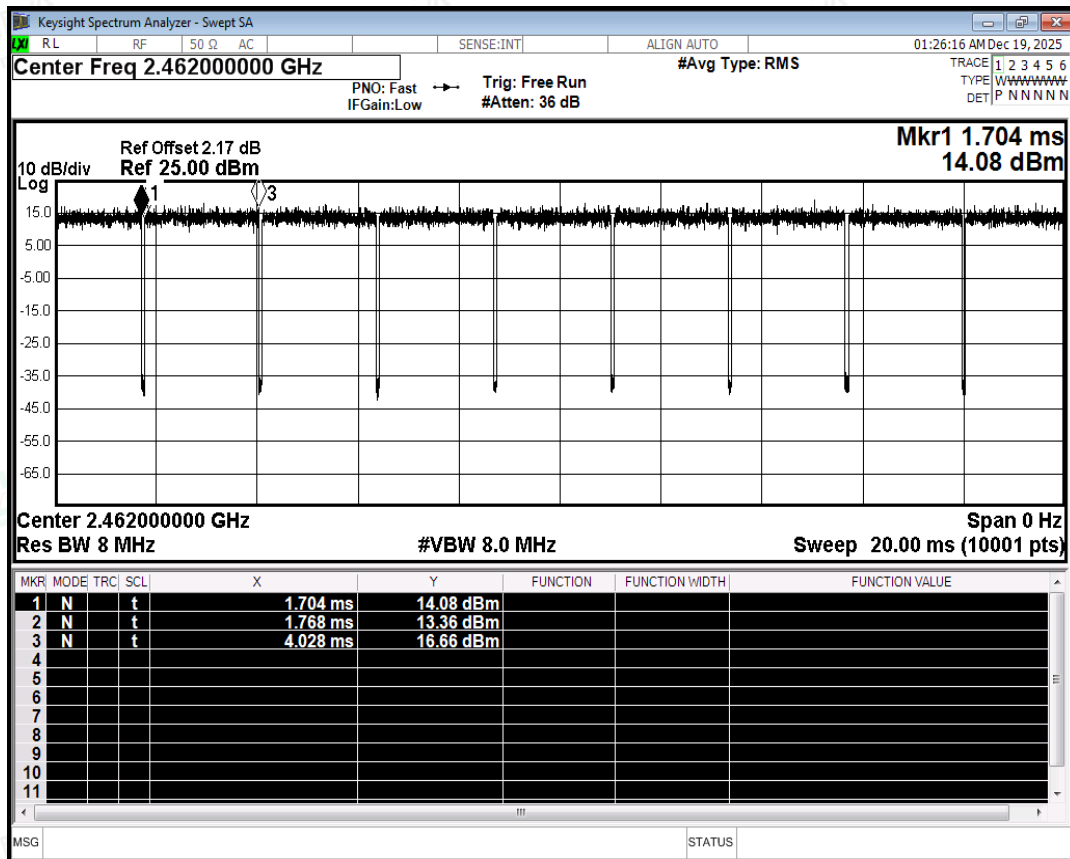
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2437MHz Ant1



Duty Cycle NVNT n20 2462MHz Ant1

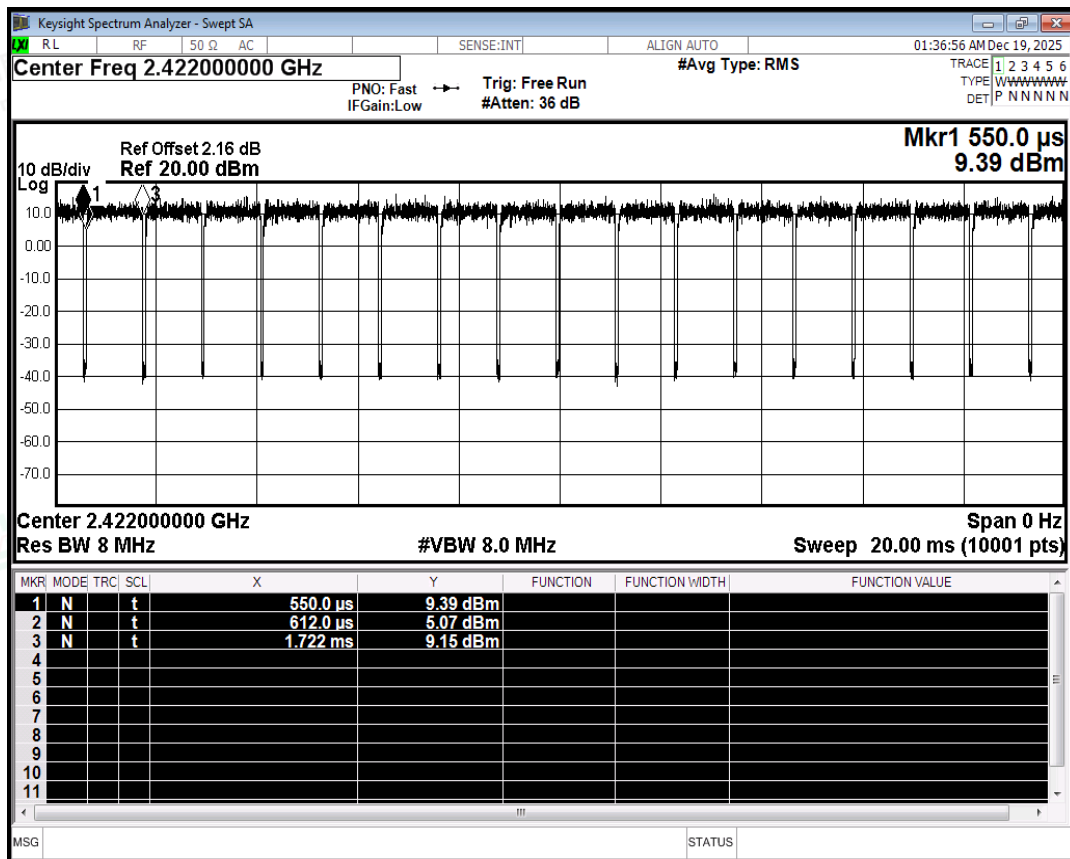


Shenzhen LCS Compliance Testing Laboratory Ltd.

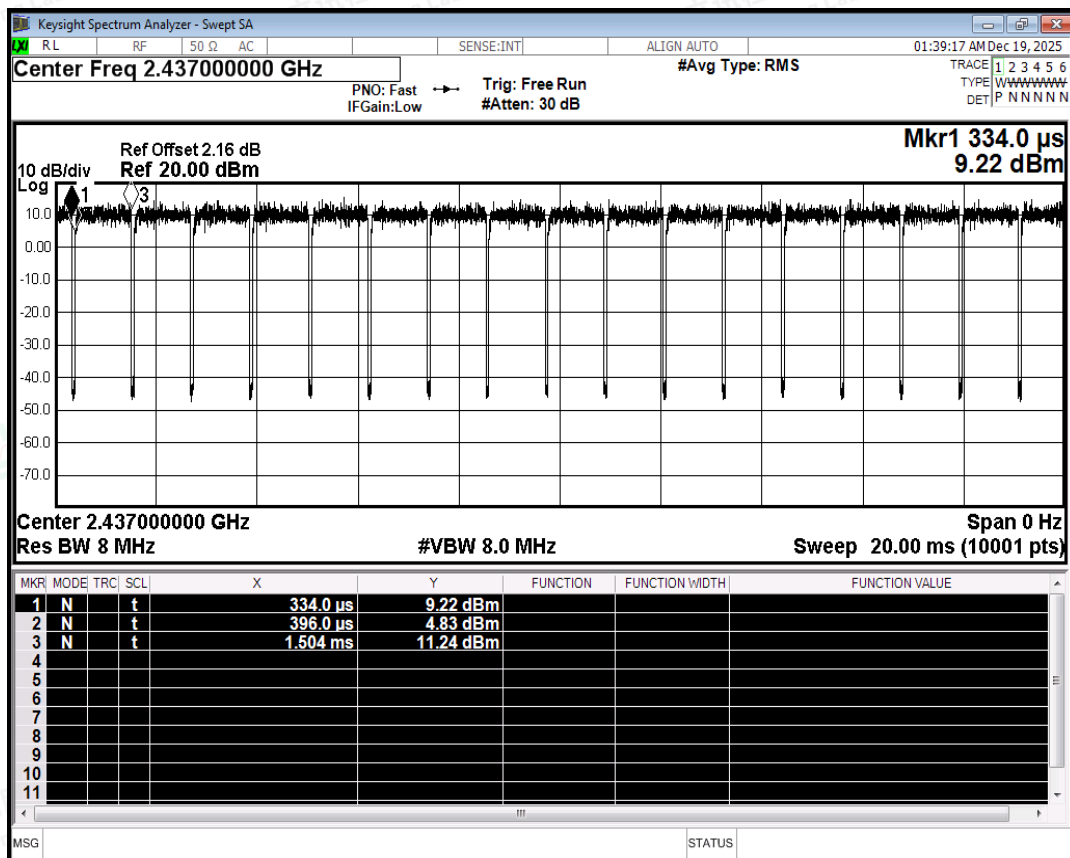
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n40 2422MHz Ant1



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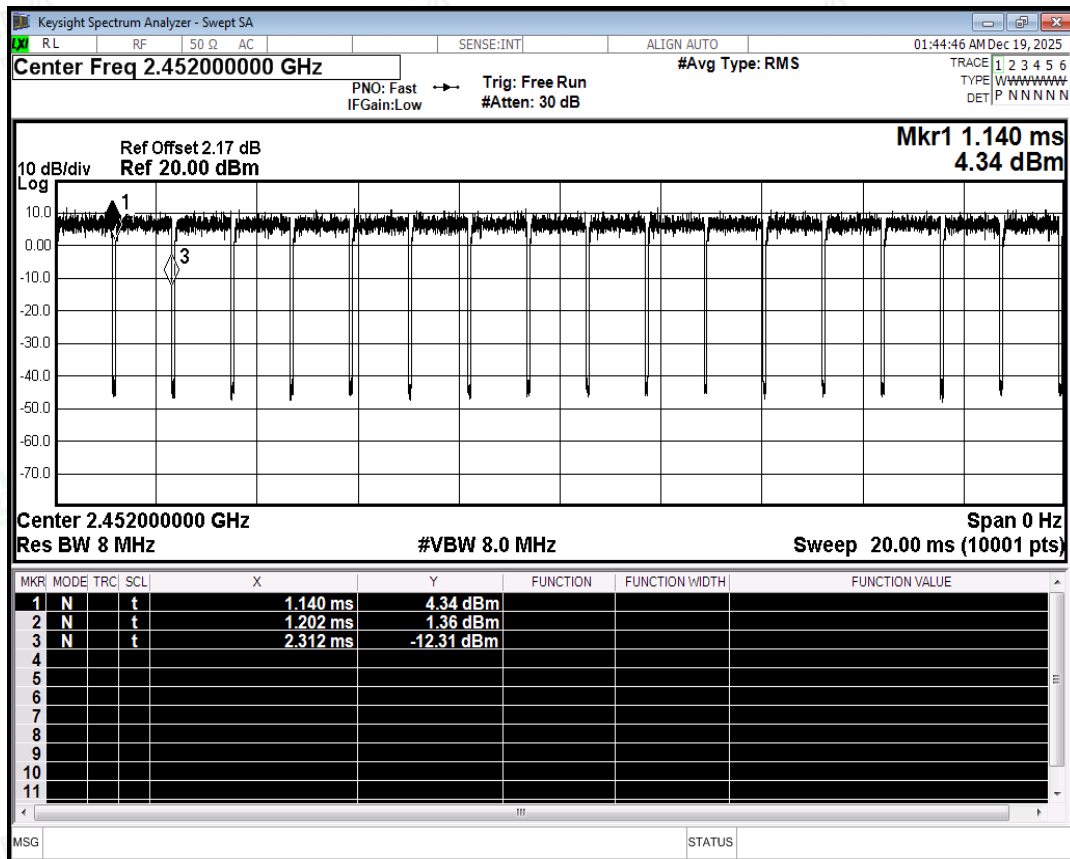
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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B.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	Ant1	2310	-50.81	2	46.45	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.81	2	39.45	Average	54	Pass
NVNT	b	2412	Ant1	2380.2	-47.28	2	49.98	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-55.85	2	41.41	Average	54	Pass
NVNT	b	2412	Ant1	2390	-49.05	2	48.21	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.64	2	41.62	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.16	2	49.1	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55	2	42.26	Average	54	Pass
NVNT	b	2462	Ant1	2486.697	-42.33	2	54.93	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-55	2	42.26	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.25	2	48.01	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.67	2	39.59	Average	54	Pass
NVNT	g	2412	Ant1	2310	-49.09	2	48.17	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.52	2	39.74	Average	54	Pass
NVNT	g	2412	Ant1	2389.443	-33.61	2	63.65	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-49.96	2	47.3	Average	54	Pass
NVNT	g	2412	Ant1	2390	-40.03	2	57.23	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-49.59	2	47.67	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-31.4	2	65.86	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.79	2	51.47	Average	54	Pass
NVNT	g	2462	Ant1	2483.623	-29.6	2	67.66	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-45.79	2	51.47	Average	54	Pass
NVNT	g	2462	Ant1	2500	-50.45	2	46.81	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.4	2	39.86	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-60.54	2	36.72	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-67.1	2	30.16	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-35.98	2	61.28	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-47.69	2	49.57	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-37.42	2	59.84	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-47.26	2	50	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-31.96	2	65.3	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-43.31	2	53.95	Average	54	Pass
NVNT	n20	2462	Ant1	2483.729	-28.38	2	68.88	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-43.31	2	53.95	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-50.96	2	46.3	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.32	2	39.94	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-50.4	2	46.86	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-57.32	2	39.94	Average	54	Pass



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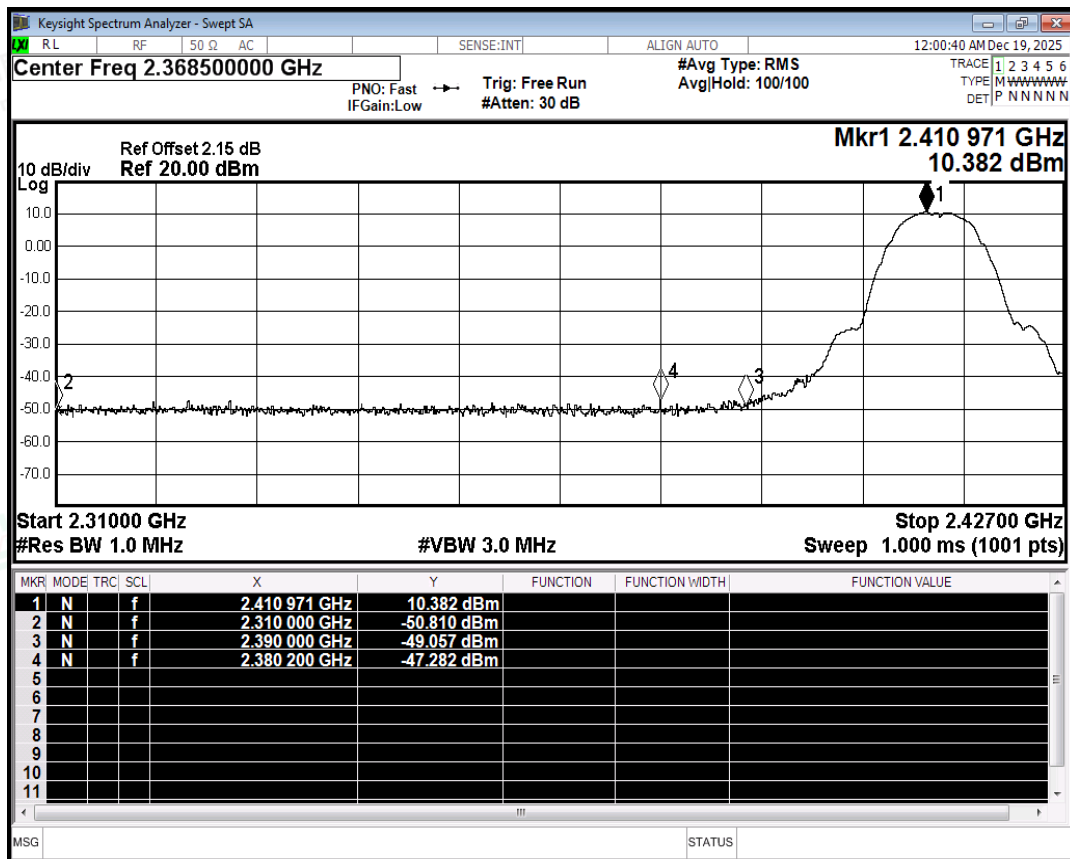


NVNT	n40	2422	Ant1	2389.378	-35.5	2	61.76	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.946	-45.84	2	51.42	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-34.97	2	62.29	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-45.52	2	51.74	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-33.26	2	64	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-44.87	2	52.39	Average	54	Pass
NVNT	n40	2452	Ant1	2483.62	-29.59	2	67.67	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.542	-44.87	2	52.39	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-61.1	2	36.16	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-67.16	2	30.1	Average	54	Pass

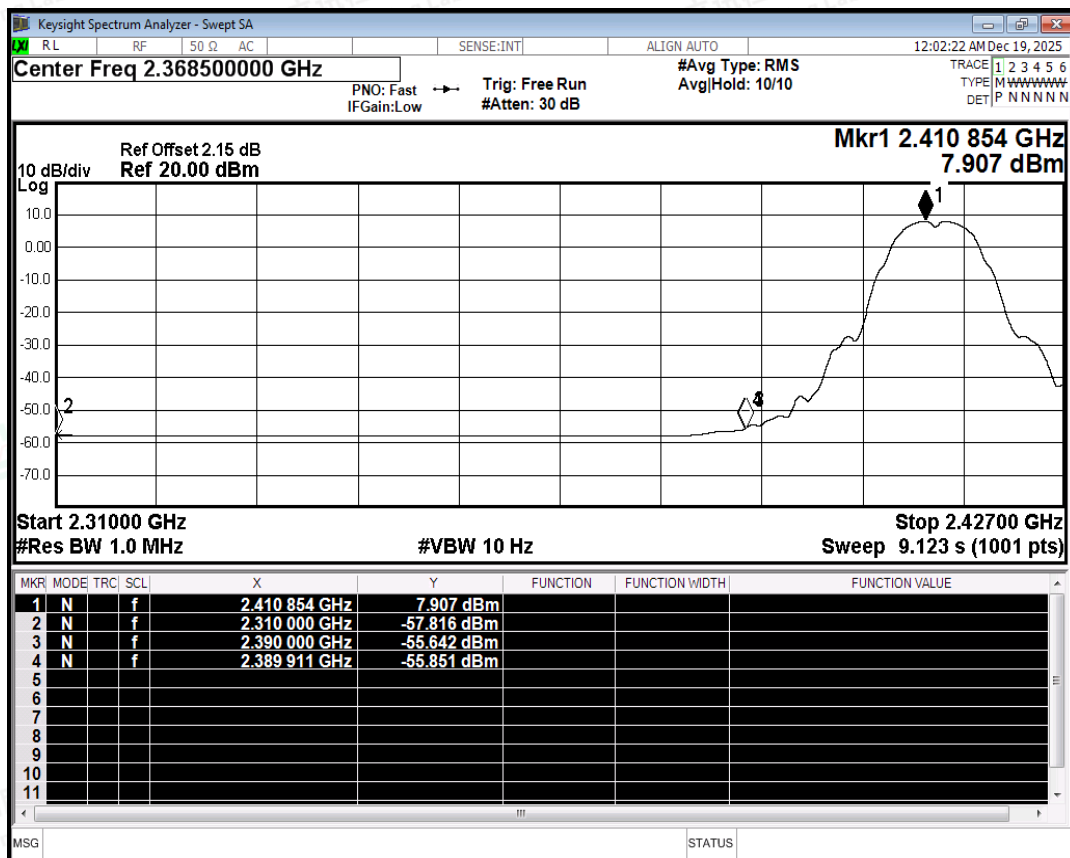
Note :offset=System attenuation +cabal loss



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Restrict Band NVNT b 2412MHz Ant1 Peak



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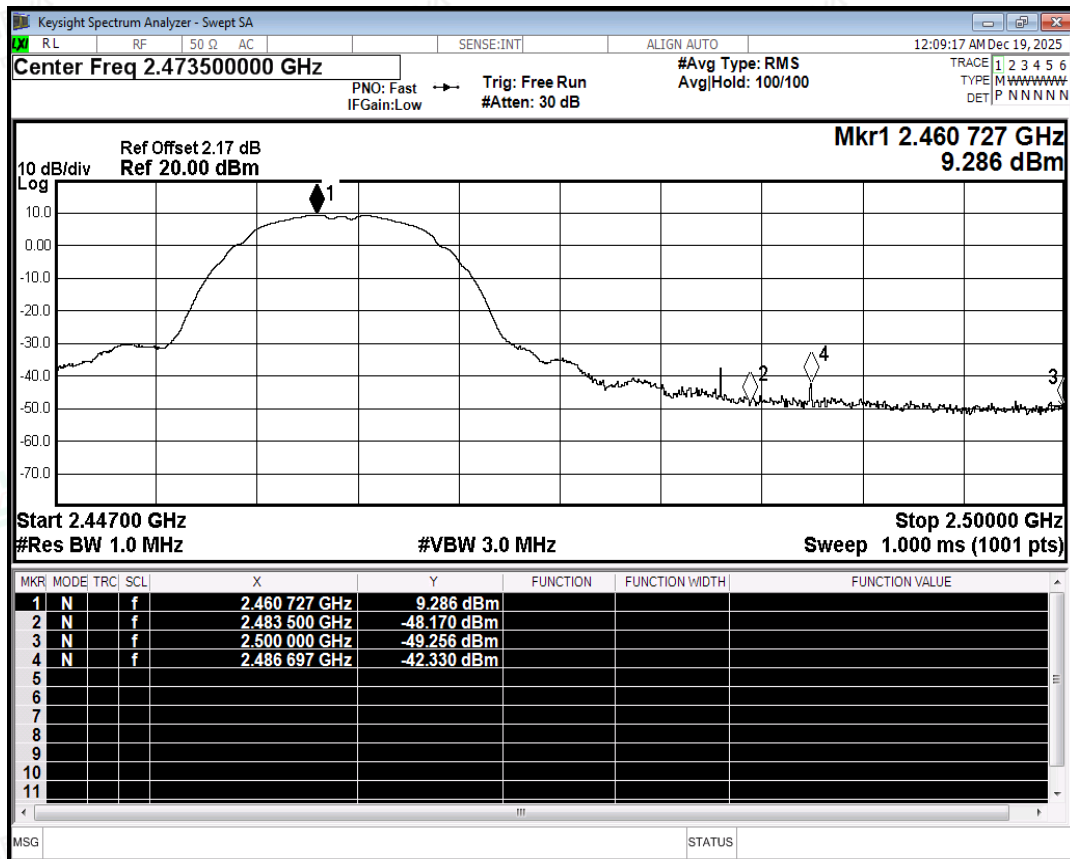
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Restrict Band NVNT b 2412MHz Ant1 Average



Restrict Band NVNT b 2462MHz Ant1 Peak

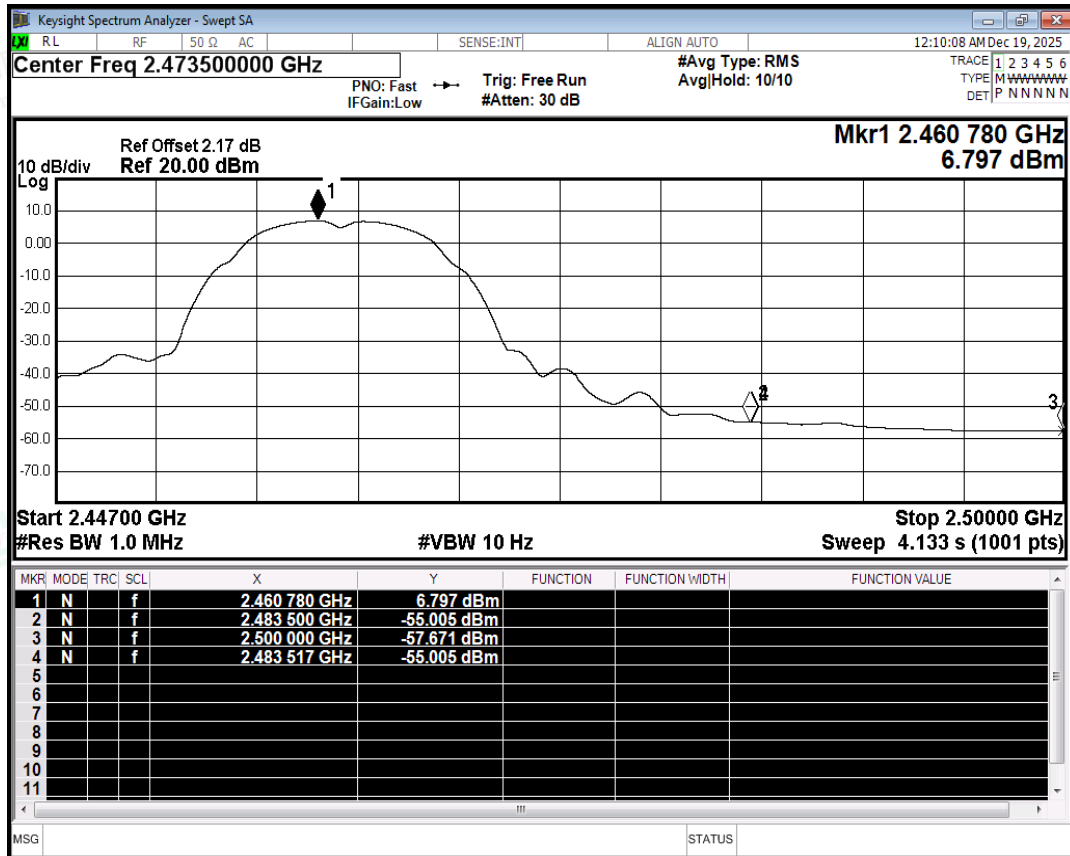


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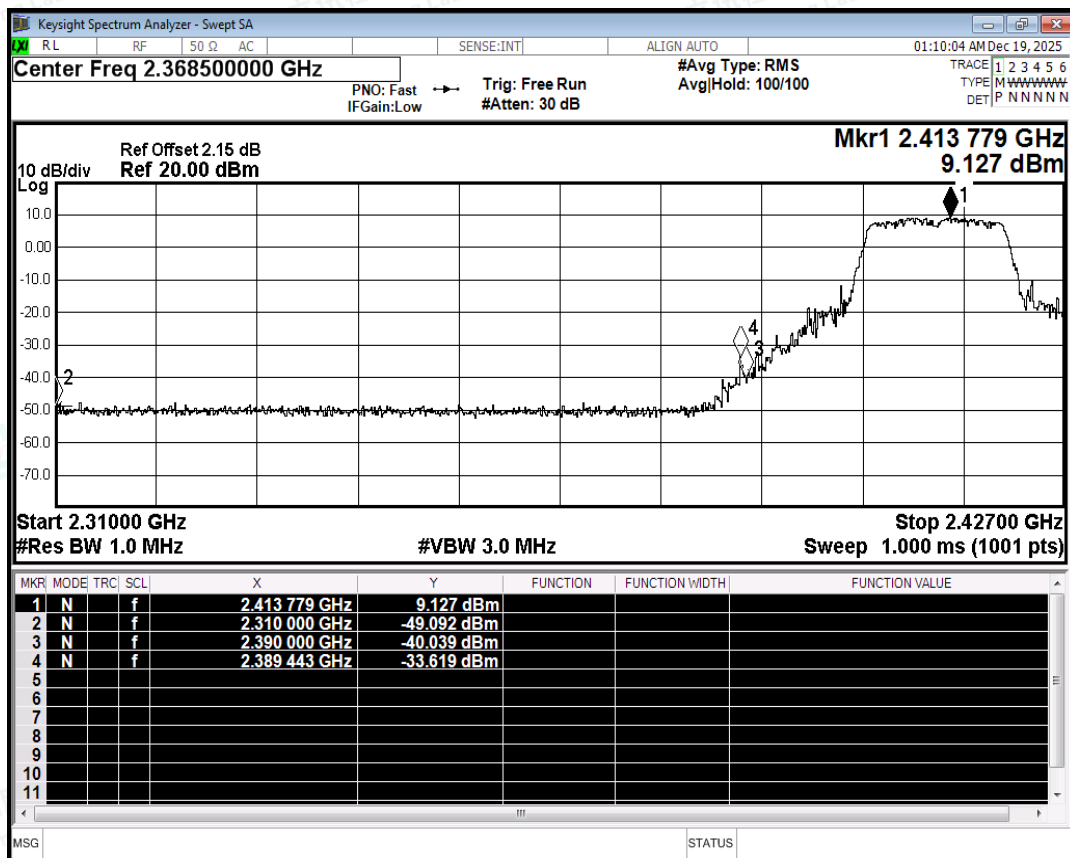
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Restrict Band NVNT b 2462MHz Ant1 Average



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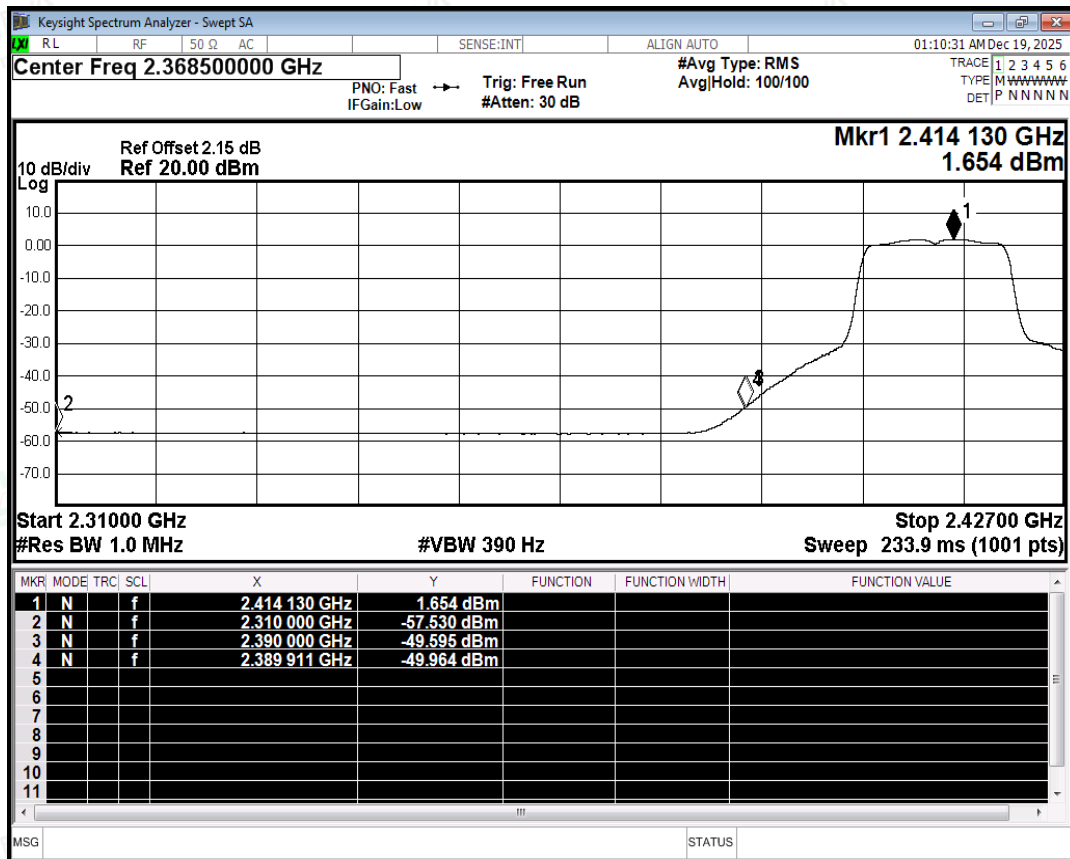
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

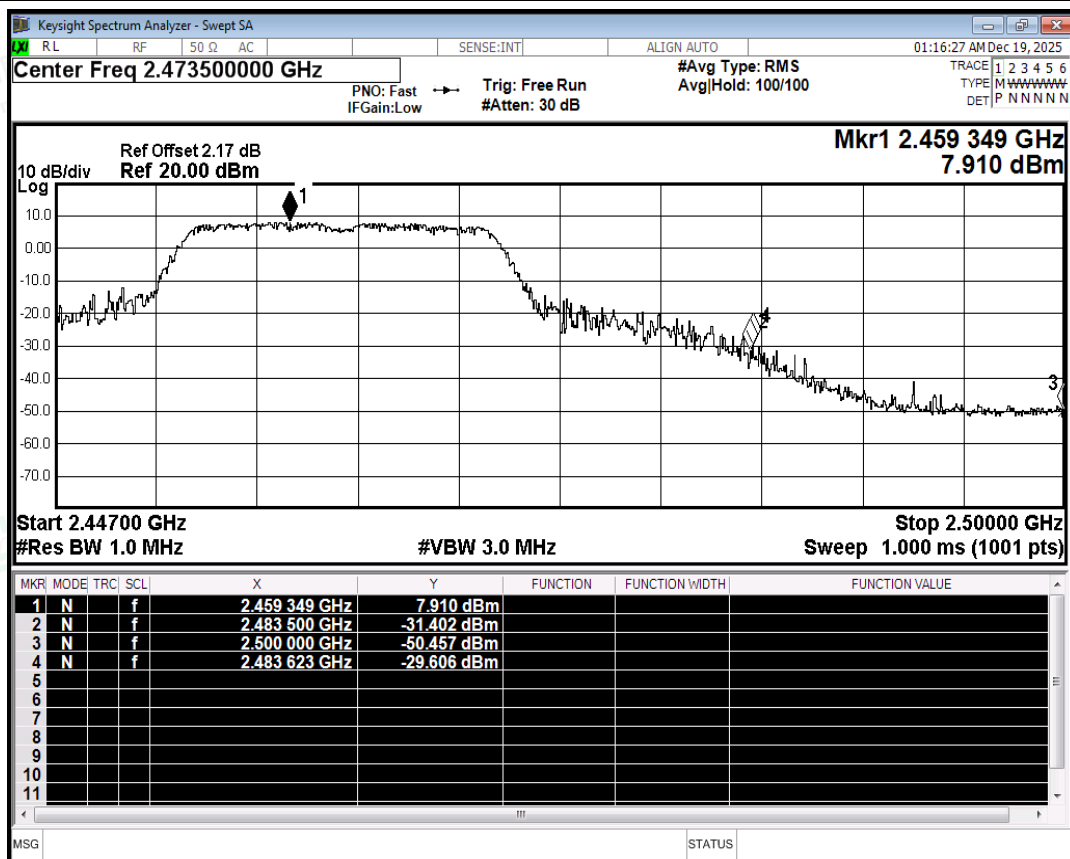


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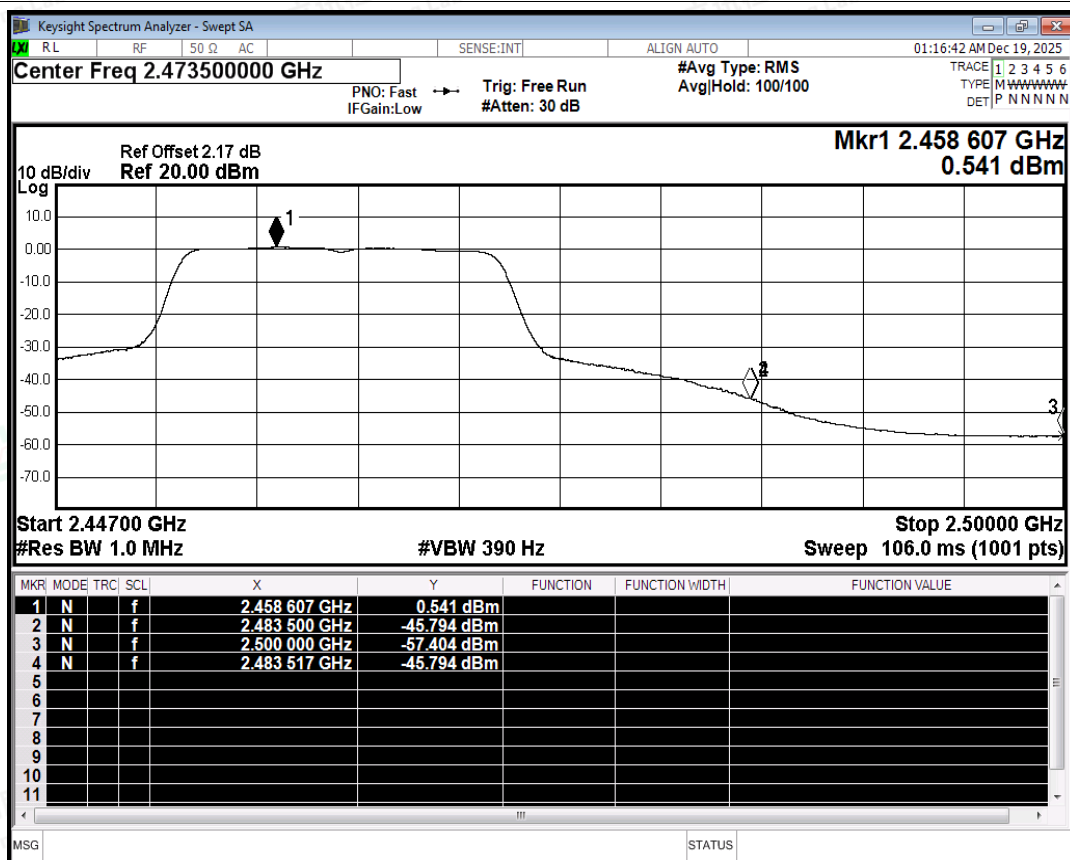
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Restrict Band NVNT g 2462MHz Ant1 Peak



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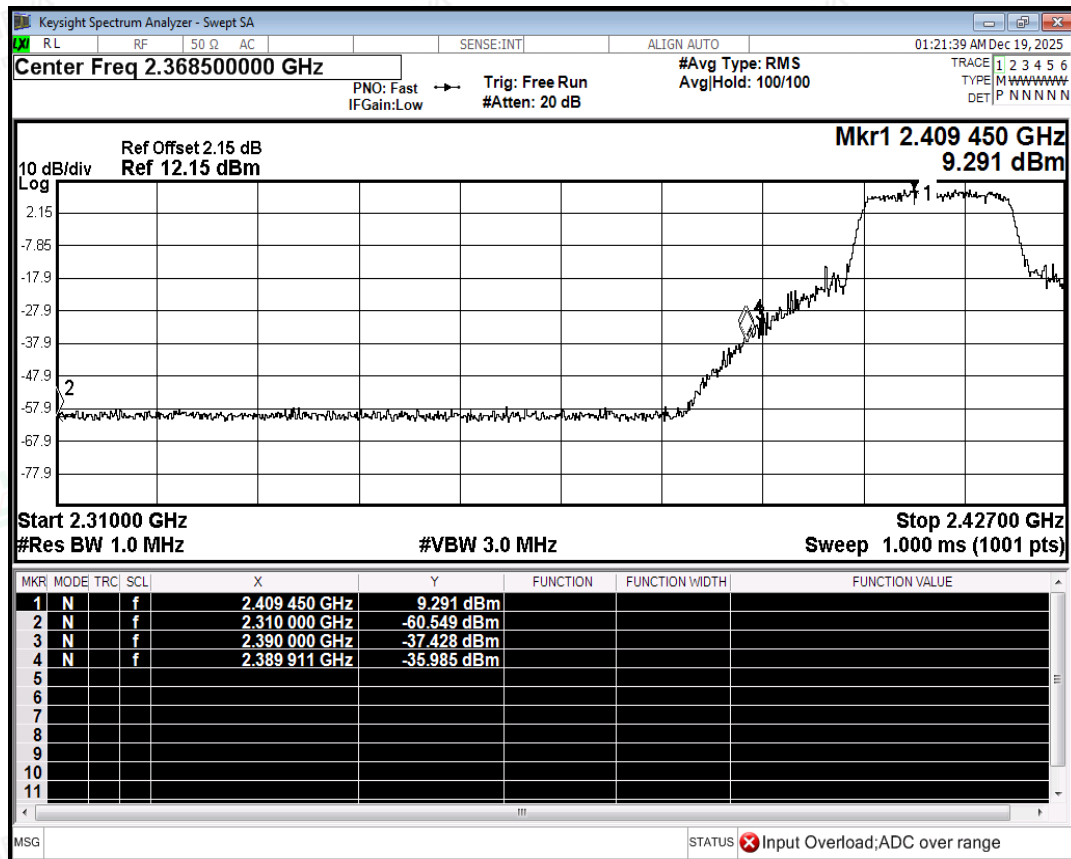
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Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n20 2412MHz Ant1 Peak

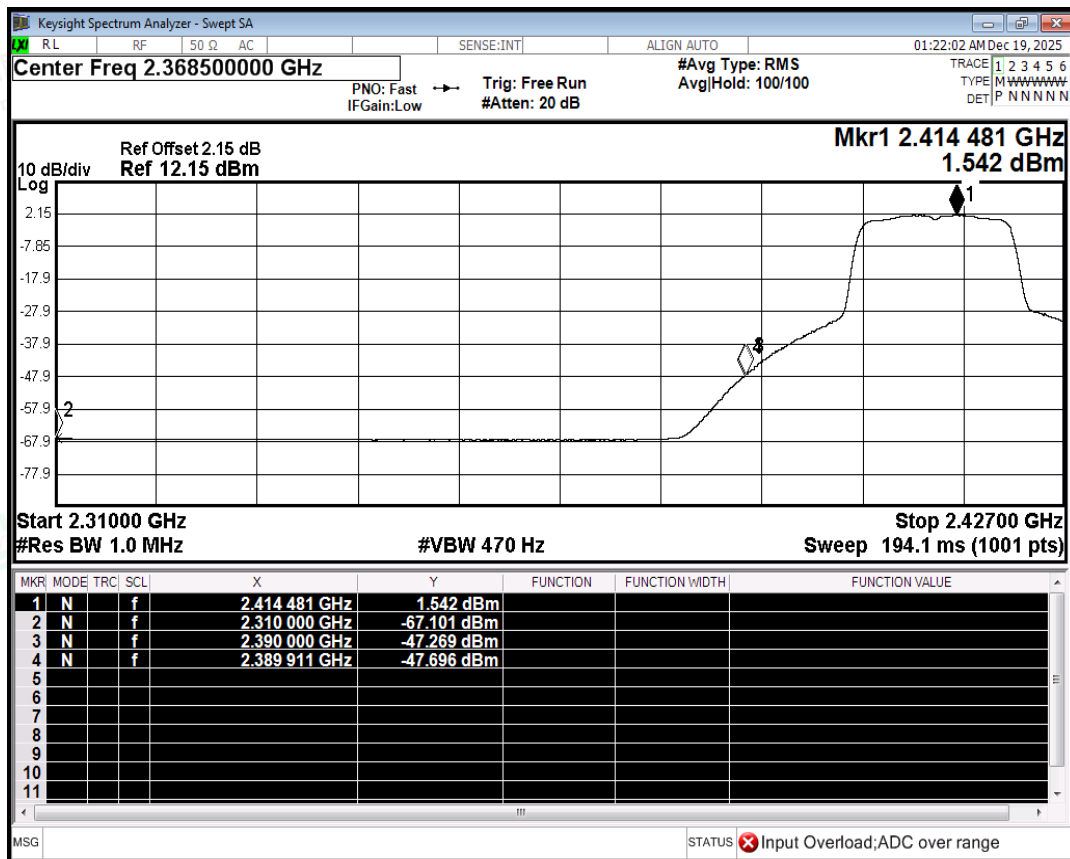


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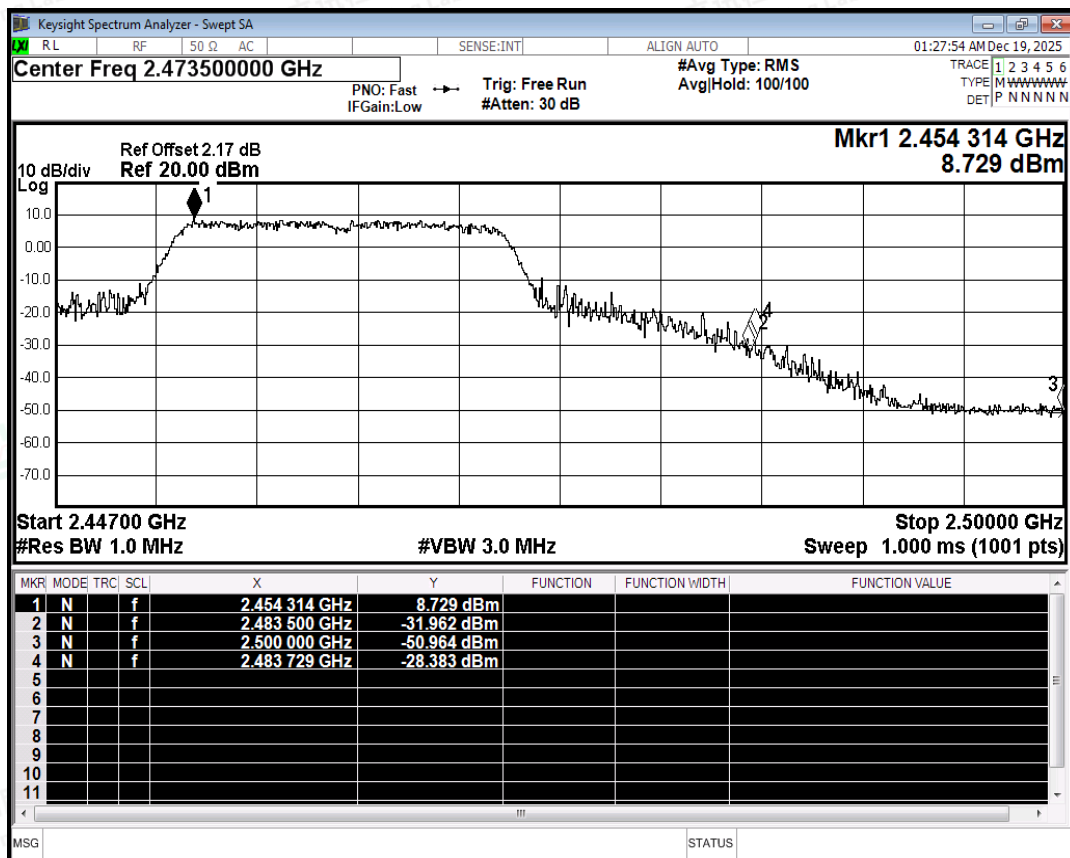
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Restrict Band NVNT n20 2412MHz Ant1 Average



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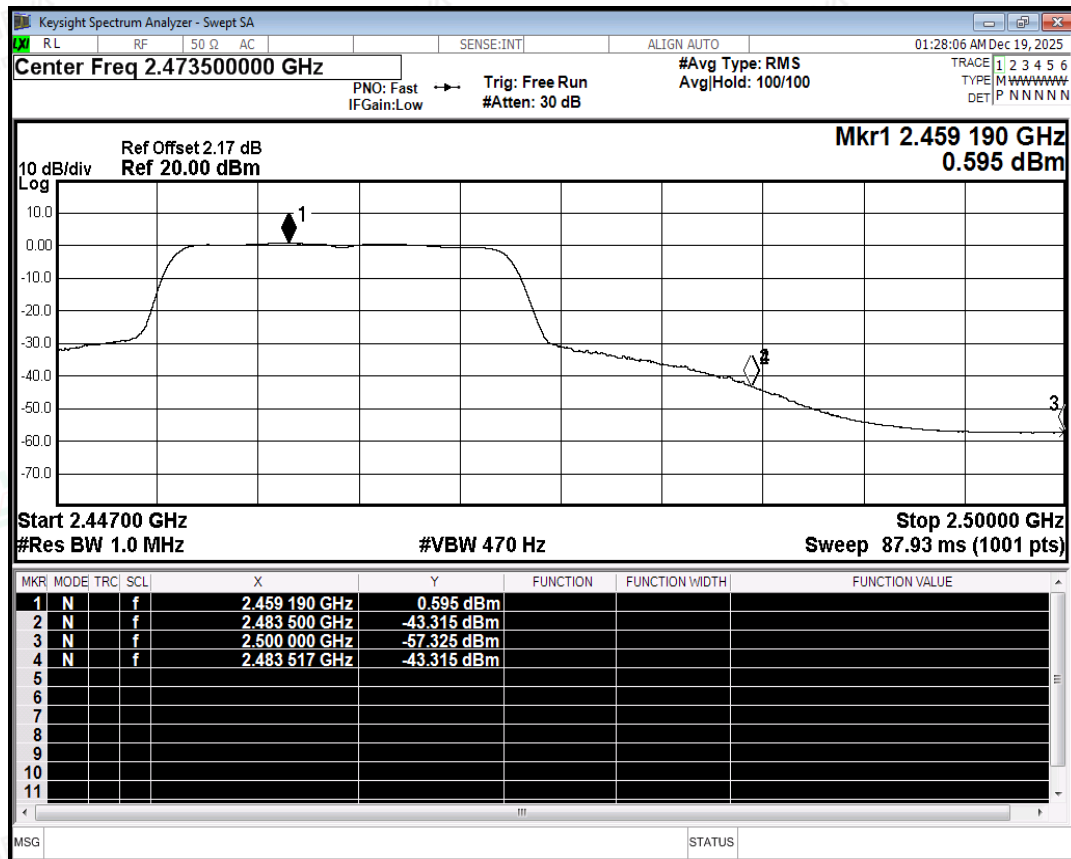
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Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average

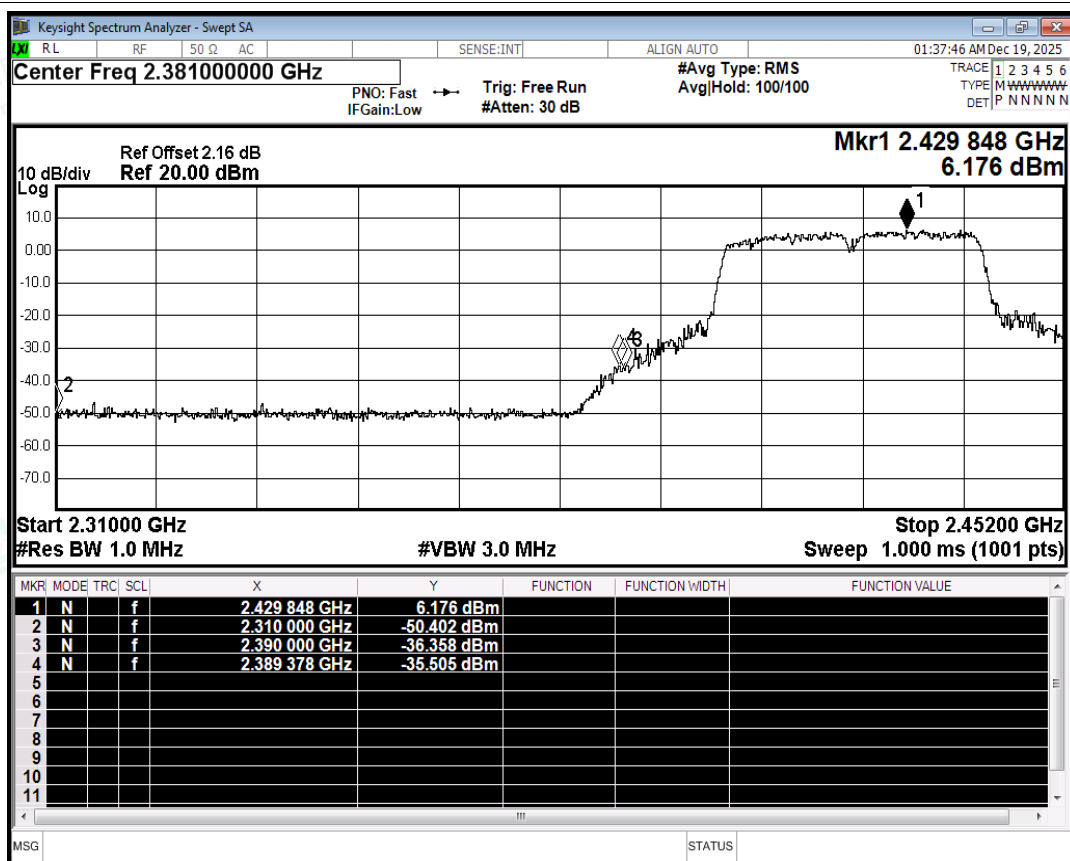


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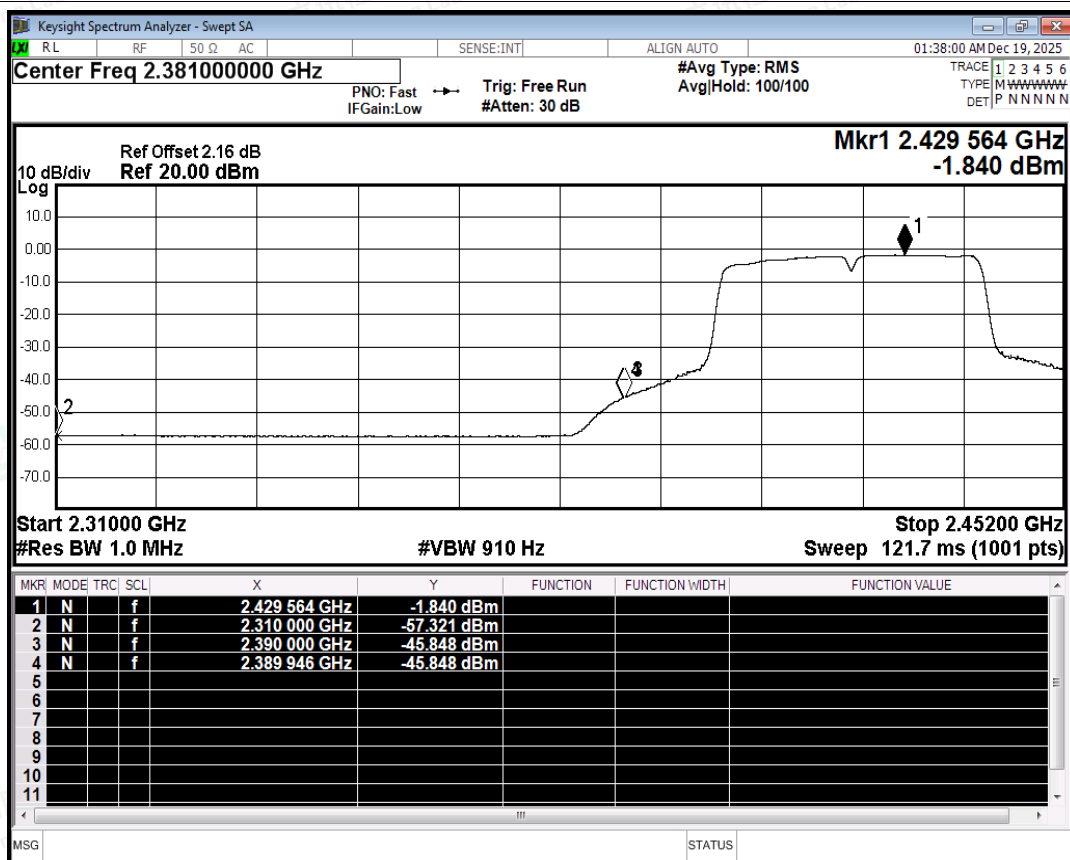
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Restrict Band NVNT n40 2422MHz Ant1 Peak



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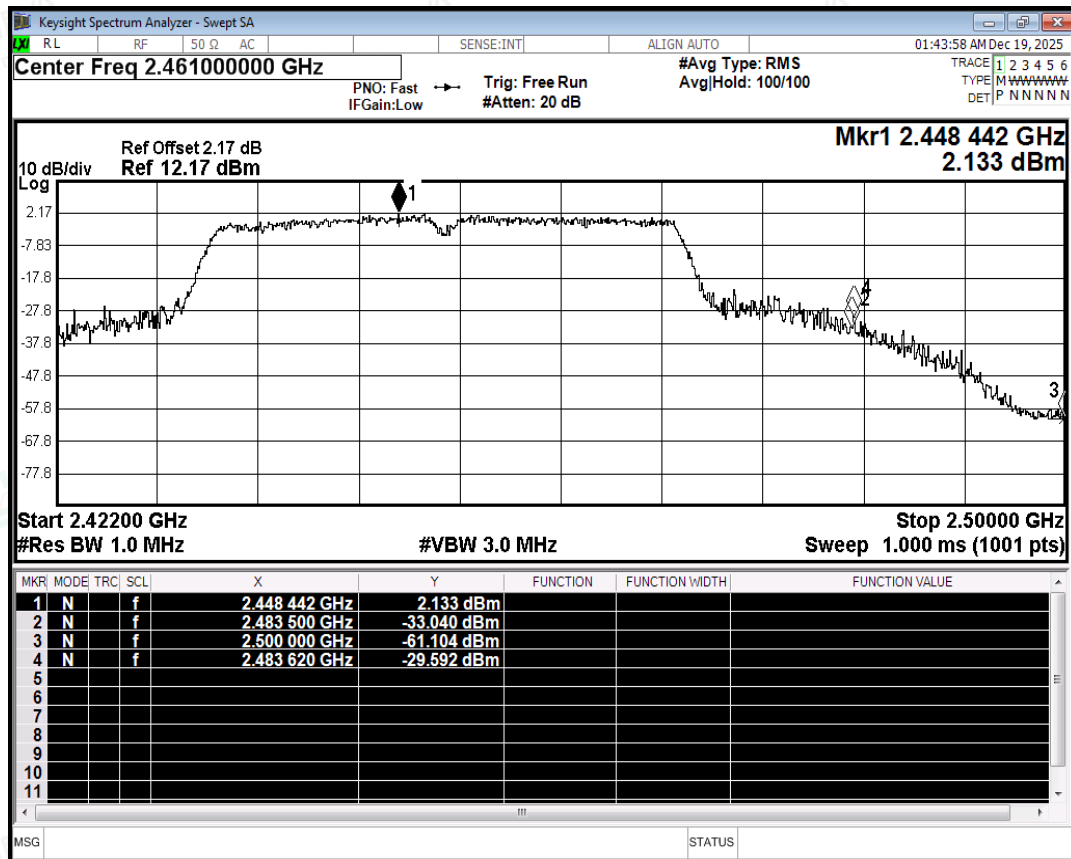
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Restrict Band NVNT n40 2422MHz Ant1 Average



Restrict Band NVNT n40 2452MHz Ant1 Peak

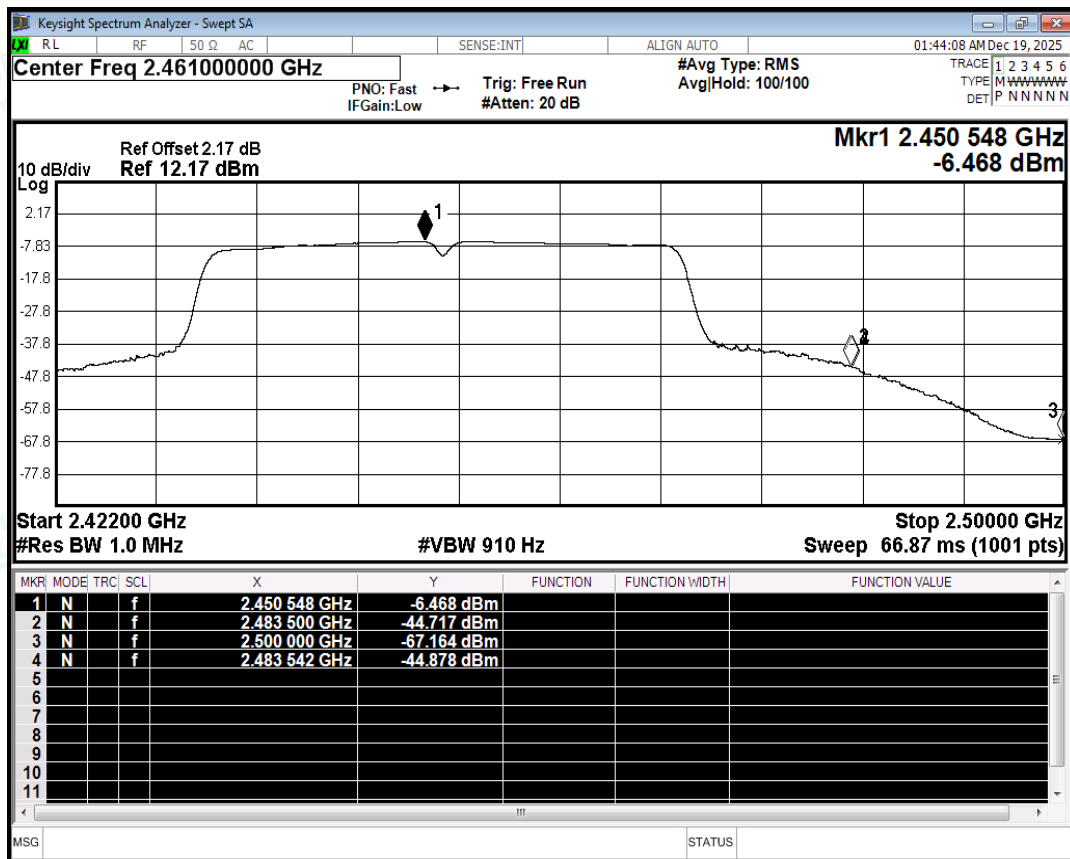


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Restrict Band NVNT n40 2452MHz Ant1 Average



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