



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Display screen

Test Model: eTouch

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.084	0.5	Pass
NVNT	b	2437	Ant1	8.105	0.5	Pass
NVNT	b	2462	Ant1	8.579	0.5	Pass
NVNT	g	2412	Ant1	16.28	0.5	Pass
NVNT	g	2437	Ant1	16.3	0.5	Pass
NVNT	g	2462	Ant1	16.29	0.5	Pass

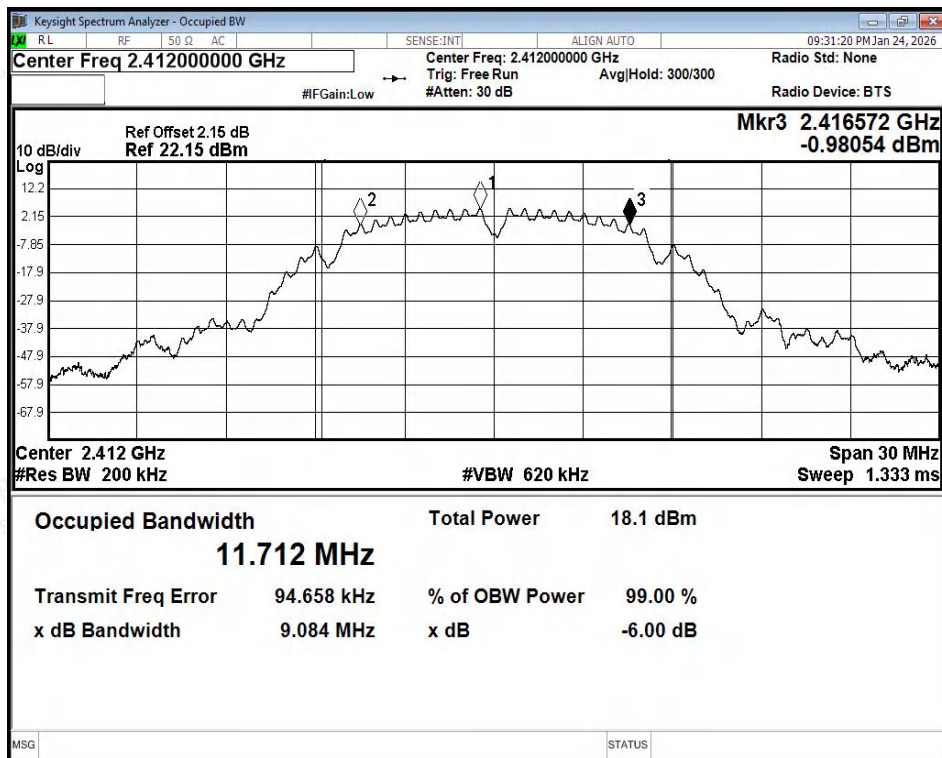


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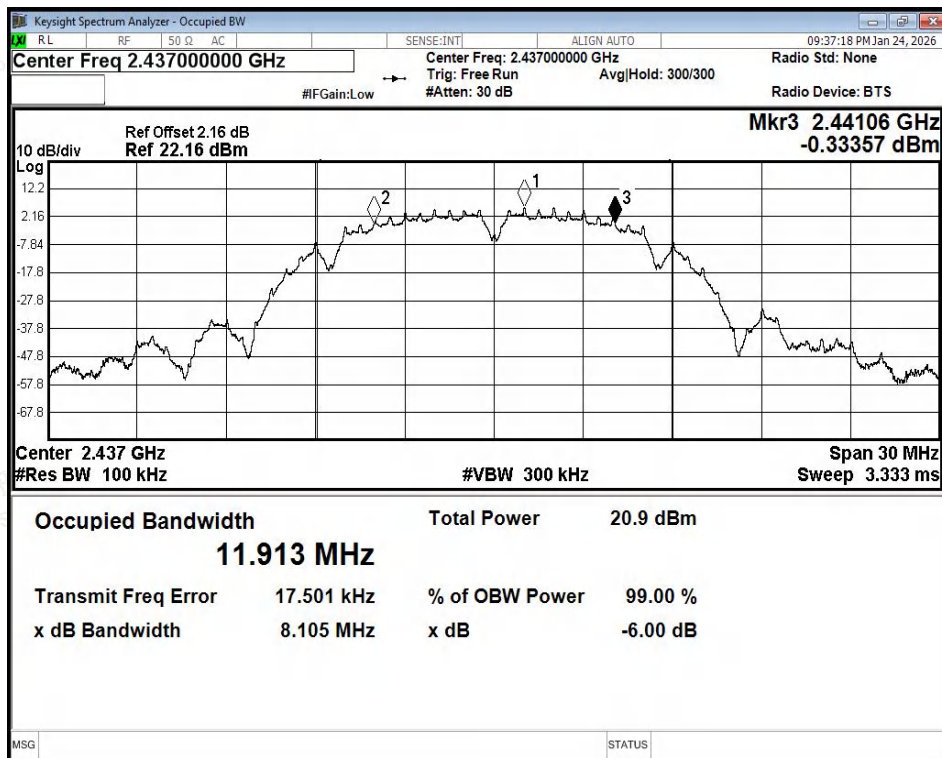
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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

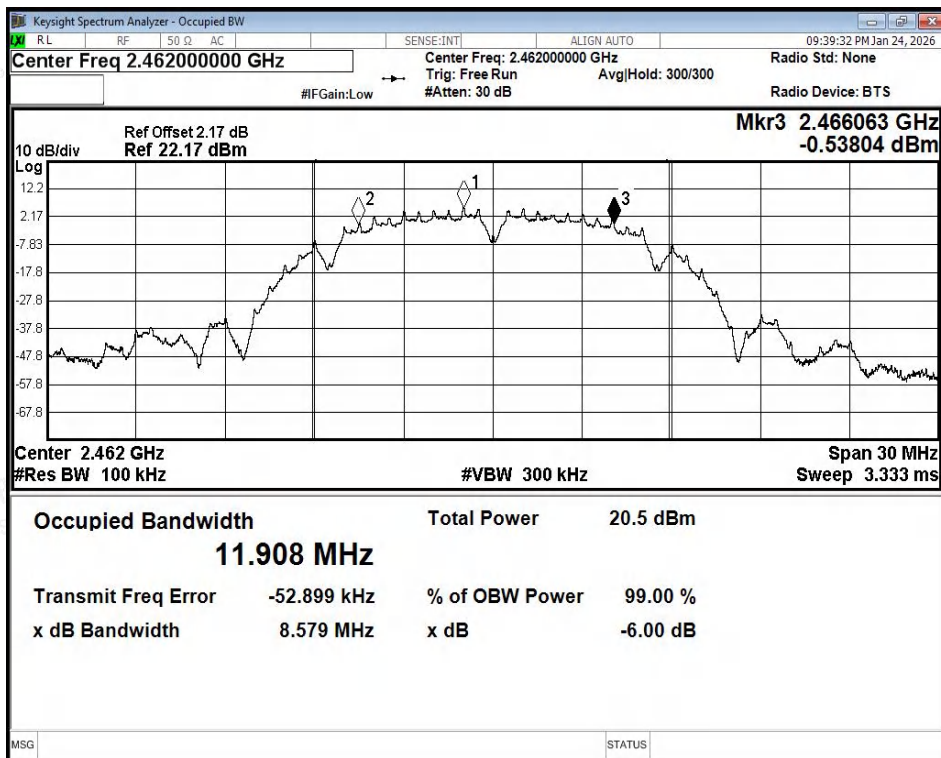


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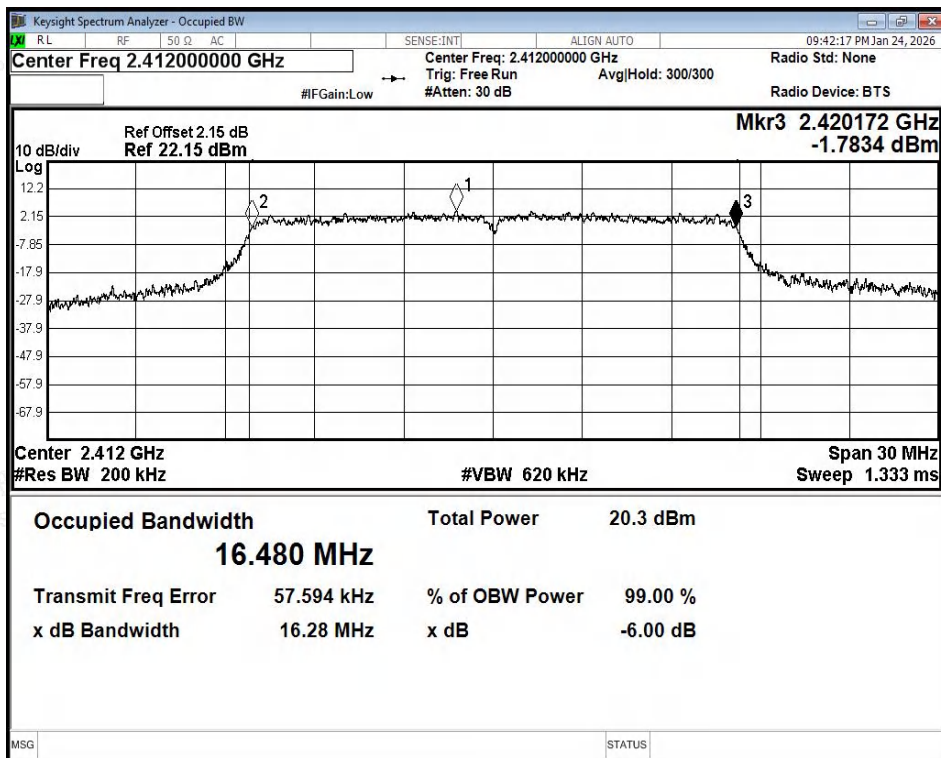
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

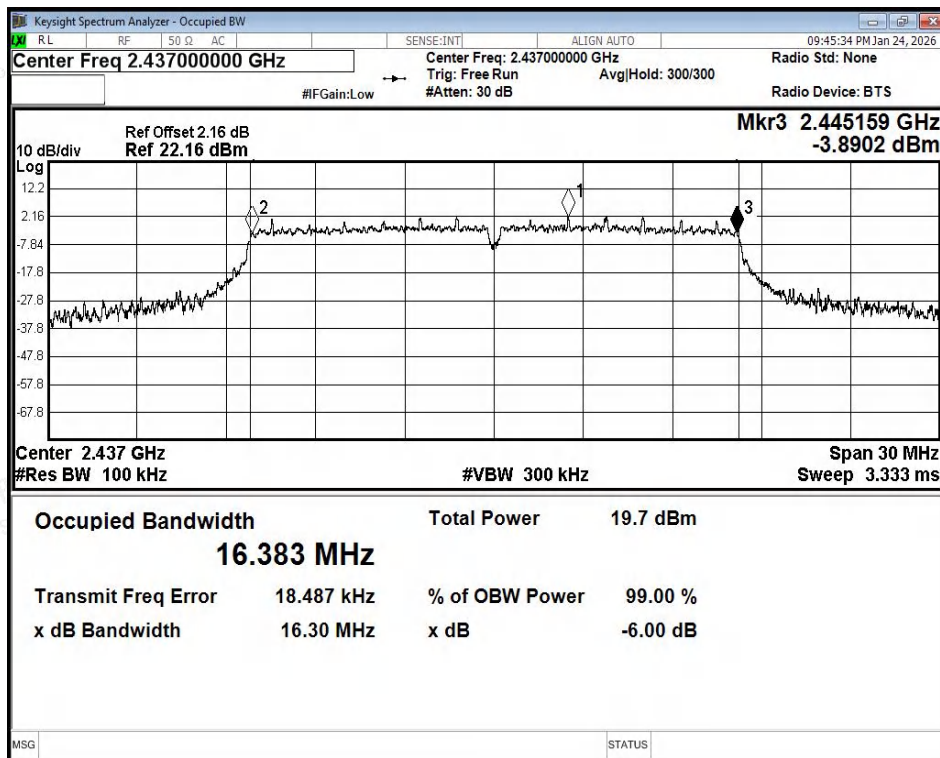


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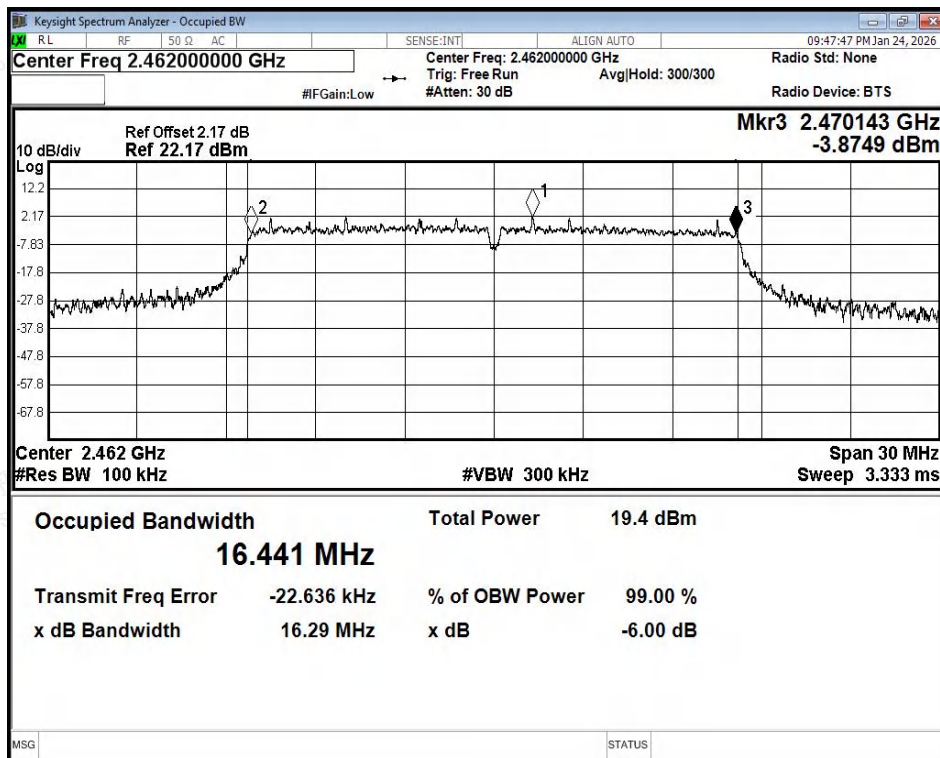
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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A.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Maximum Average	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	15.02	0.01	15.03	30	Pass
NVNT	b	2437	Ant1	14.12	0.02	14.14	30	Pass
NVNT	b	2462	Ant1	13.74	0.01	13.75	30	Pass
NVNT	g	2412	Ant1	13.99	0.1	14.09	30	Pass
NVNT	g	2437	Ant1	13.28	0.1	13.38	30	Pass
NVNT	g	2462	Ant1	12.99	0.1	13.09	30	Pass



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A.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	-18.5	0.01	-18.49	8	Pass
NVNT	b	2437	Ant1	-17.59	0.02	-17.57	8	Pass
NVNT	b	2462	Ant1	-17.57	0.01	-17.56	8	Pass
NVNT	g	2412	Ant1	-20.21	0.1	-20.11	8	Pass
NVNT	g	2437	Ant1	-20.81	0.1	-20.71	8	Pass
NVNT	g	2462	Ant1	-21.28	0.1	-21.18	8	Pass

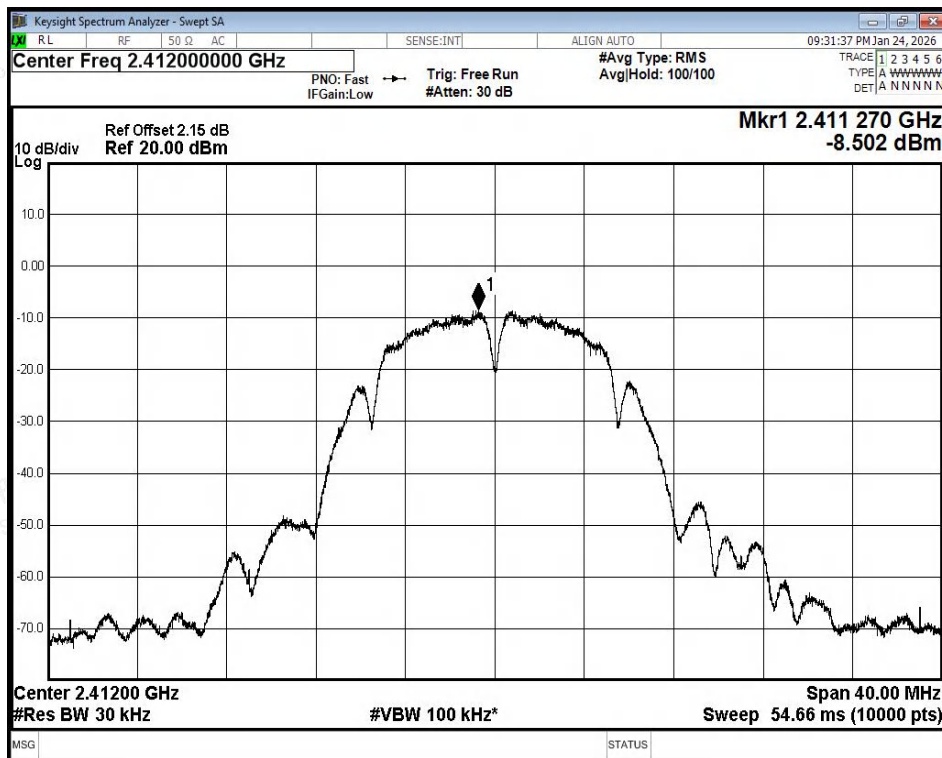


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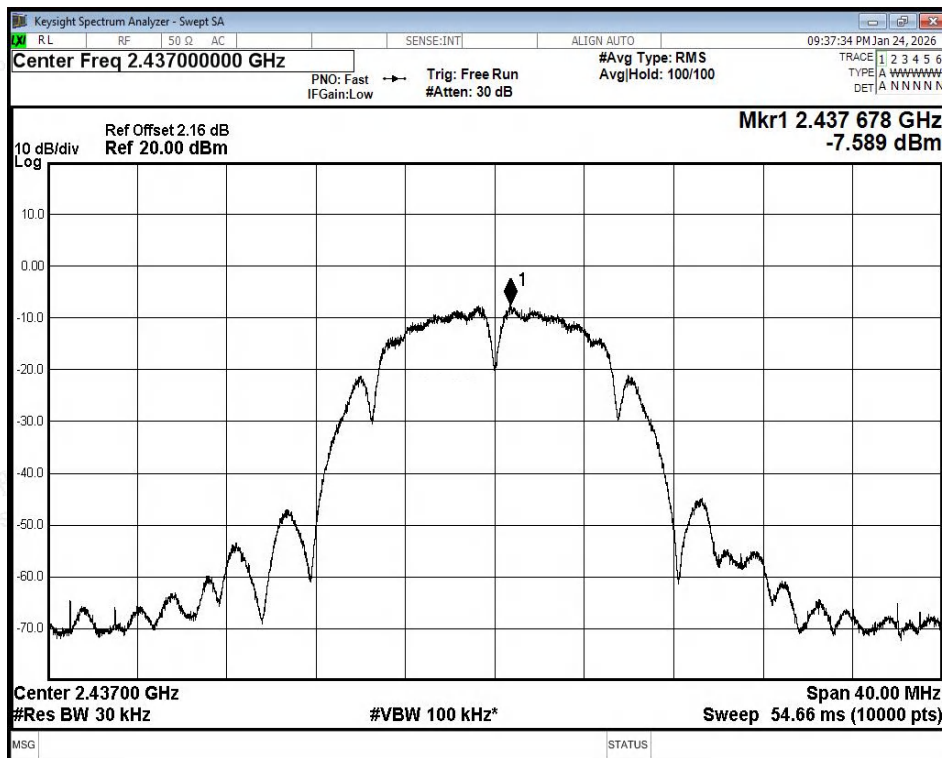
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PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

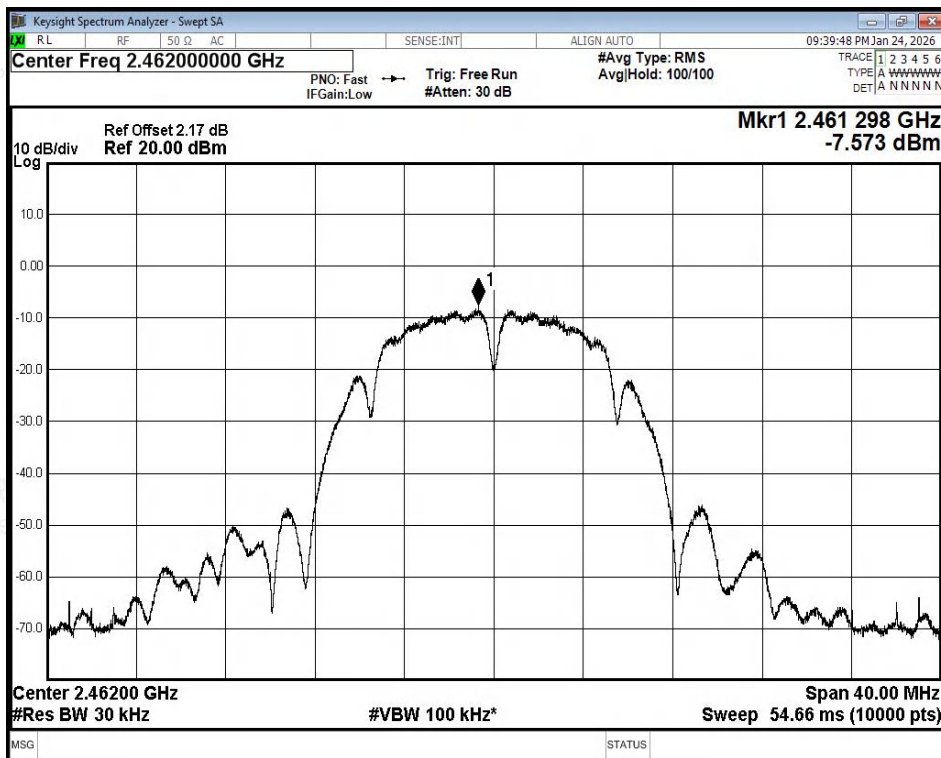


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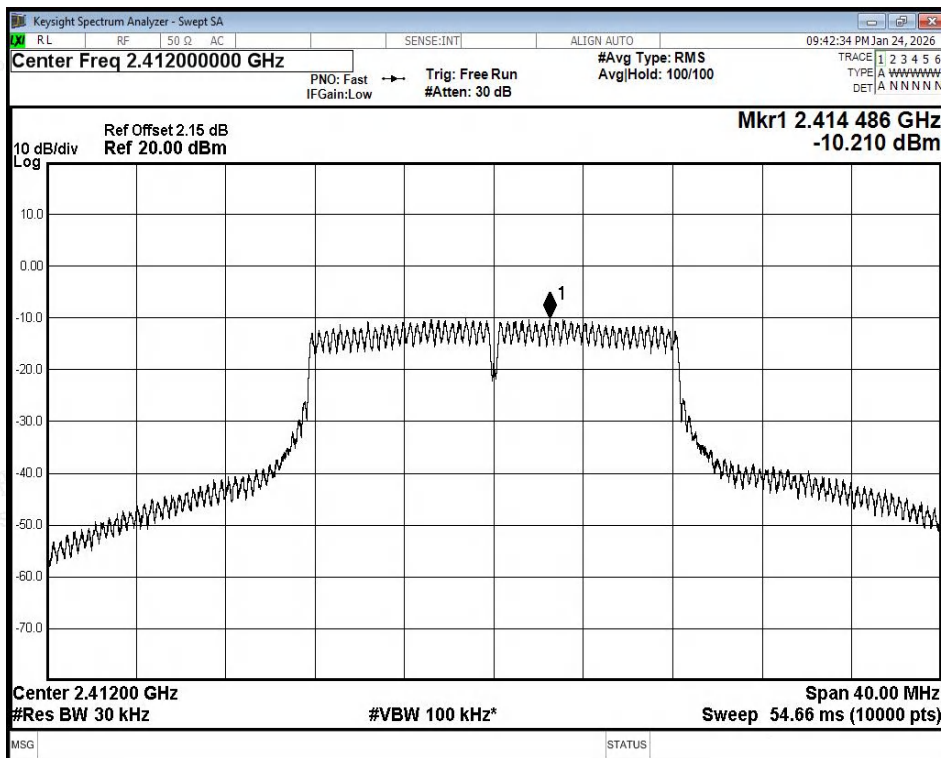
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

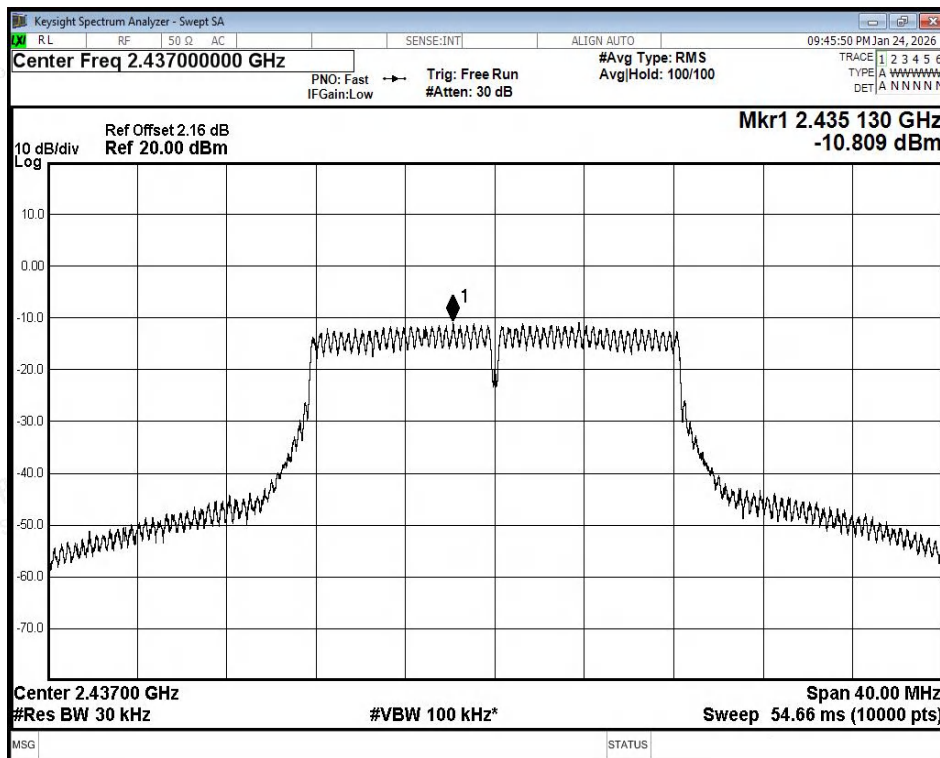


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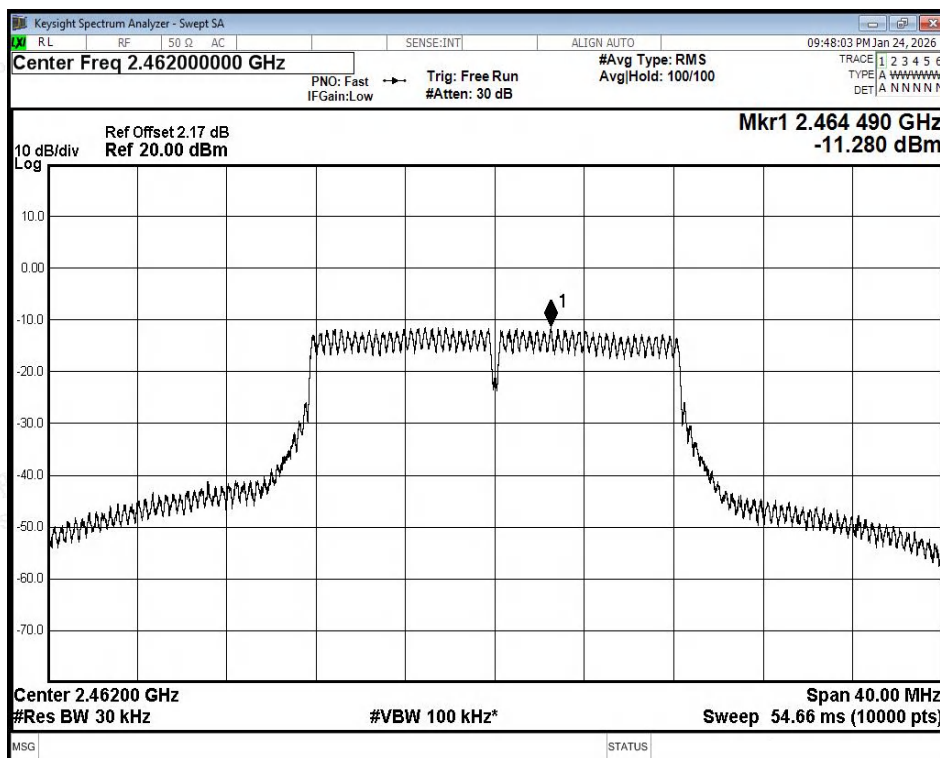
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.66	-30	Pass
NVNT	b	2462	Ant1	-60.3	-30	Pass
NVNT	g	2412	Ant1	-31.62	-30	Pass
NVNT	g	2462	Ant1	-43.17	-30	Pass

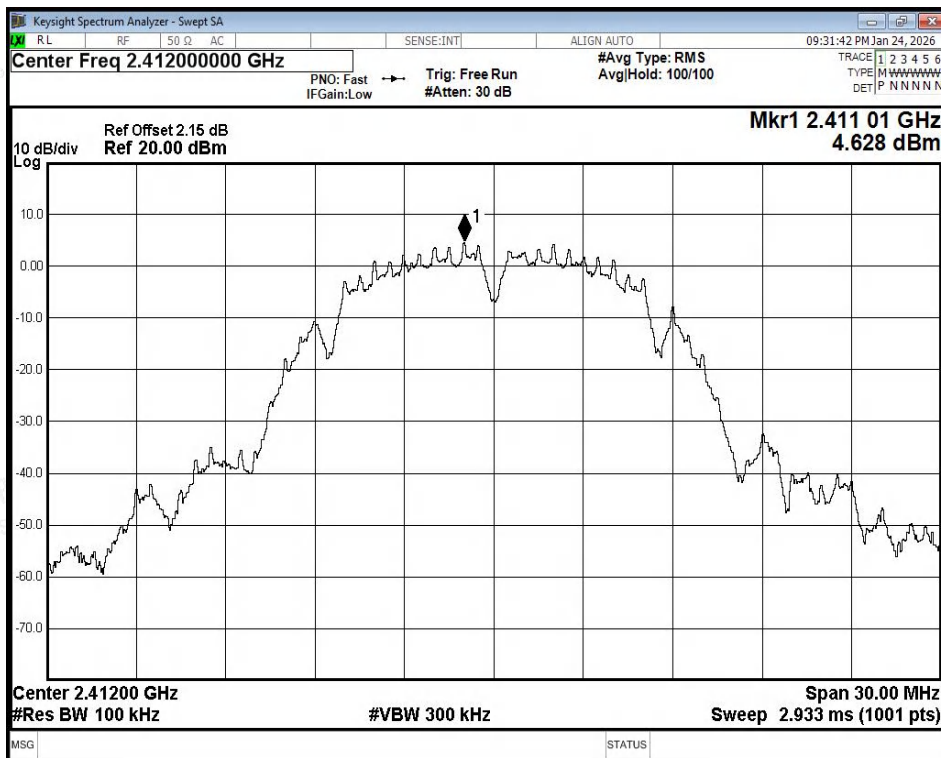


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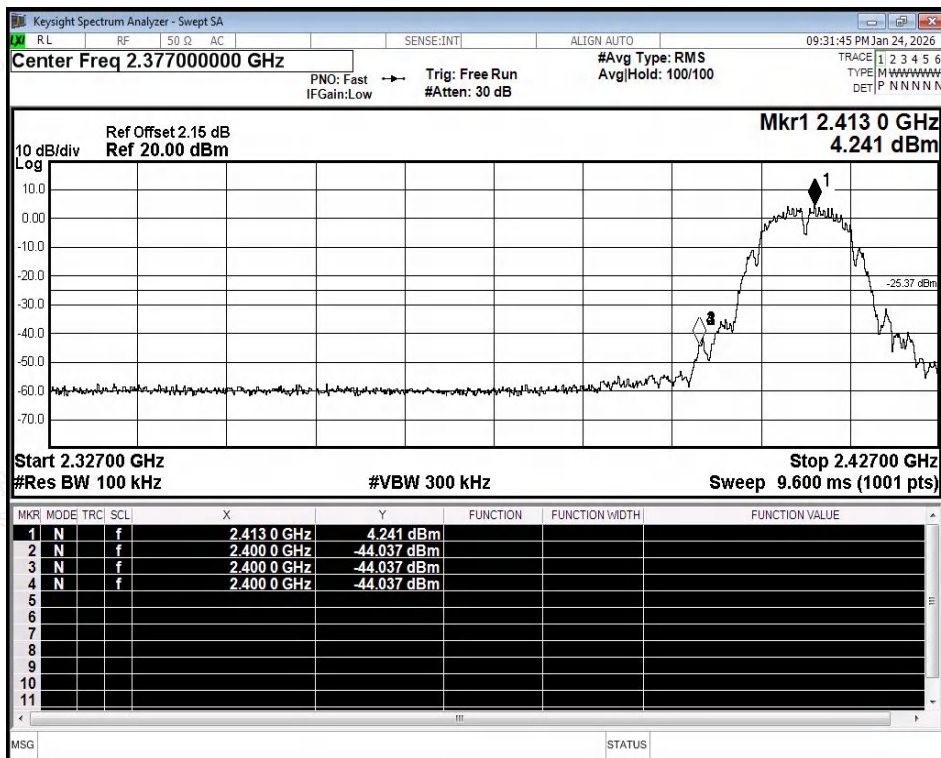
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Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

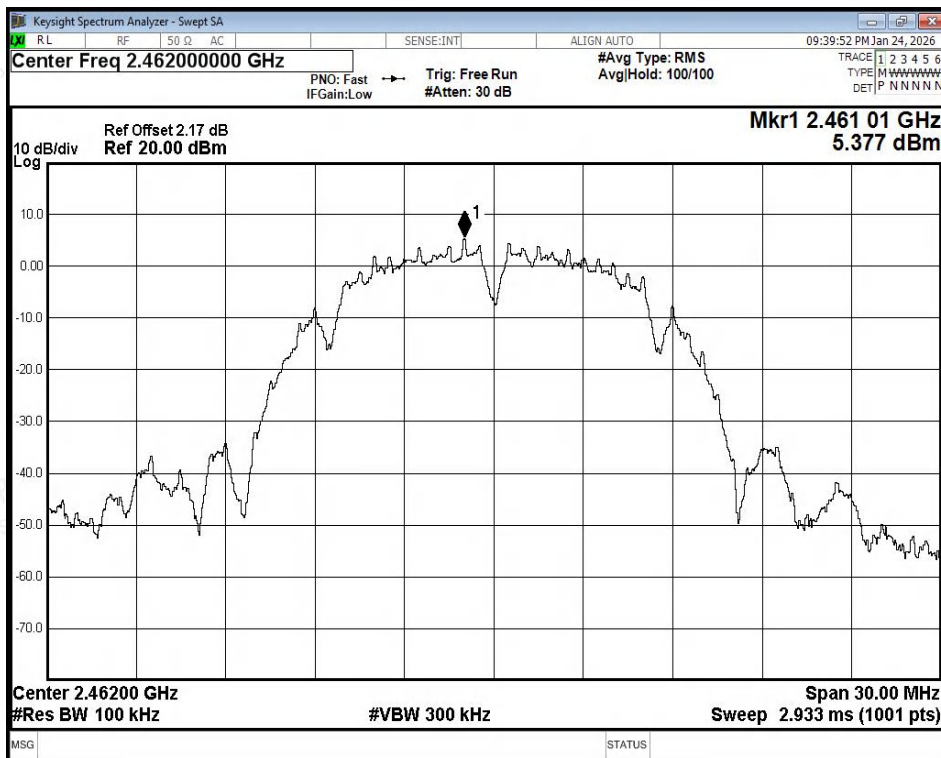


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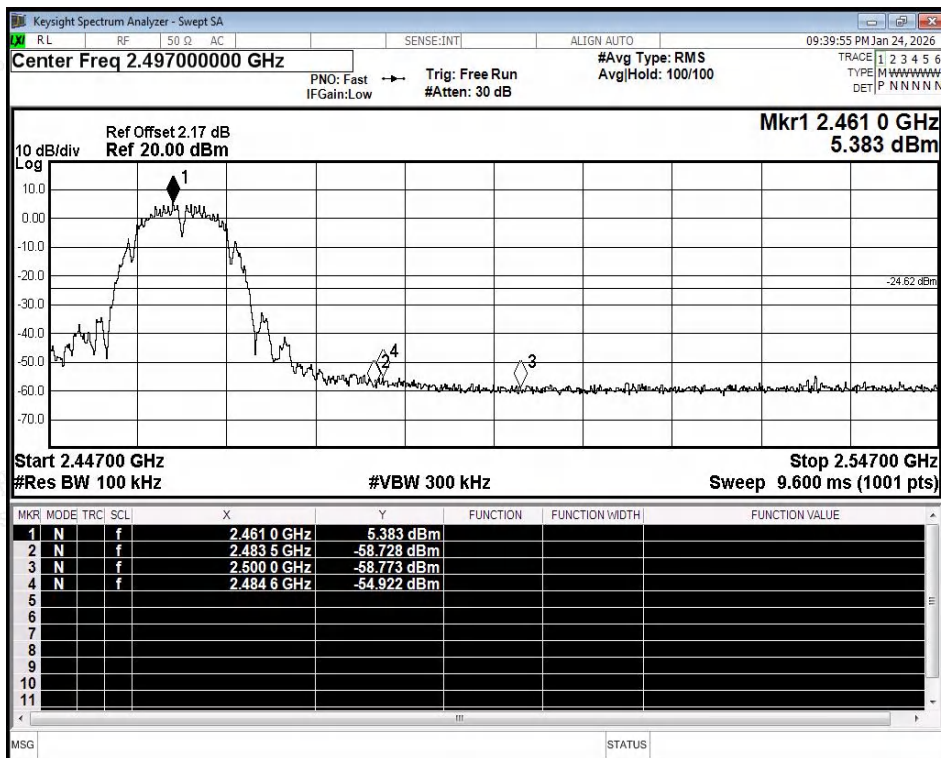
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

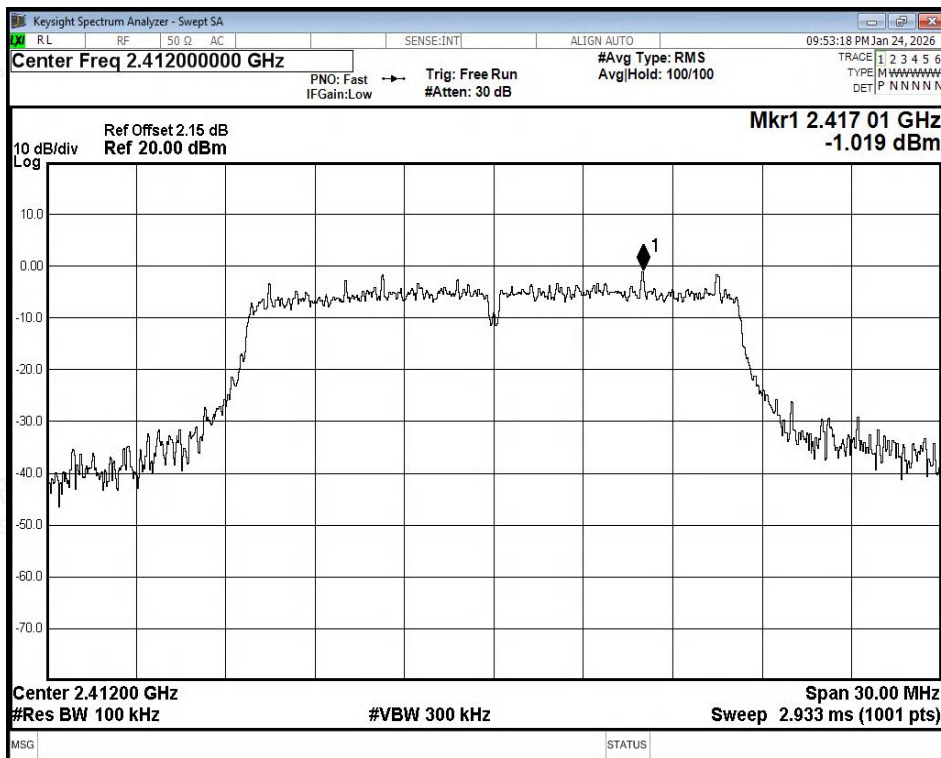


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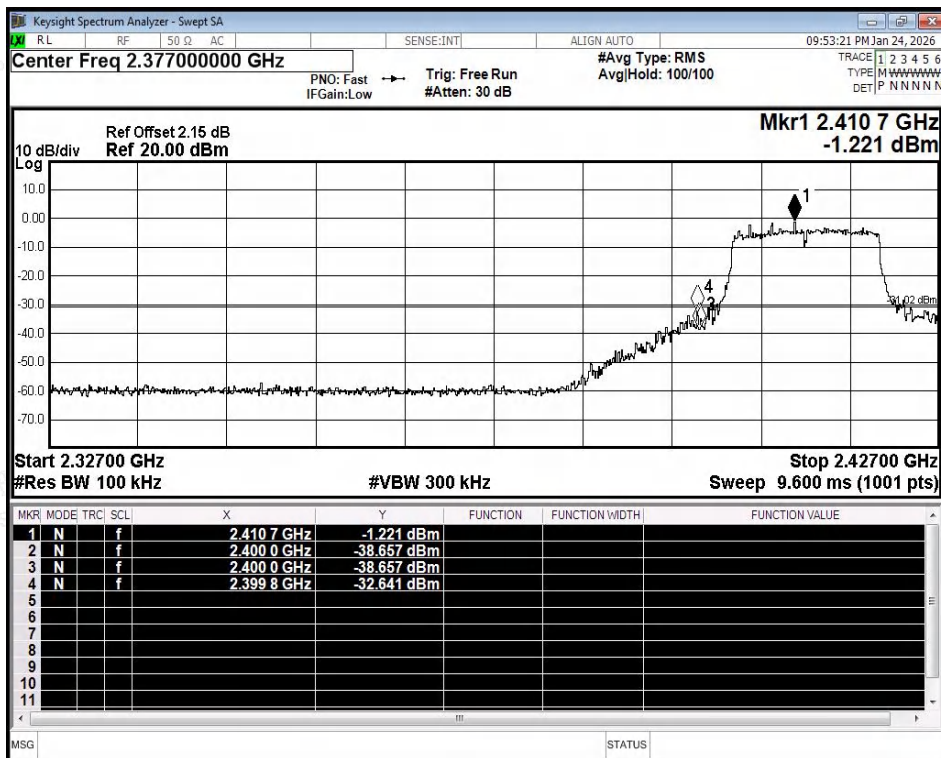
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Band Edge NVNT g 2412MHz Ant1 Emission

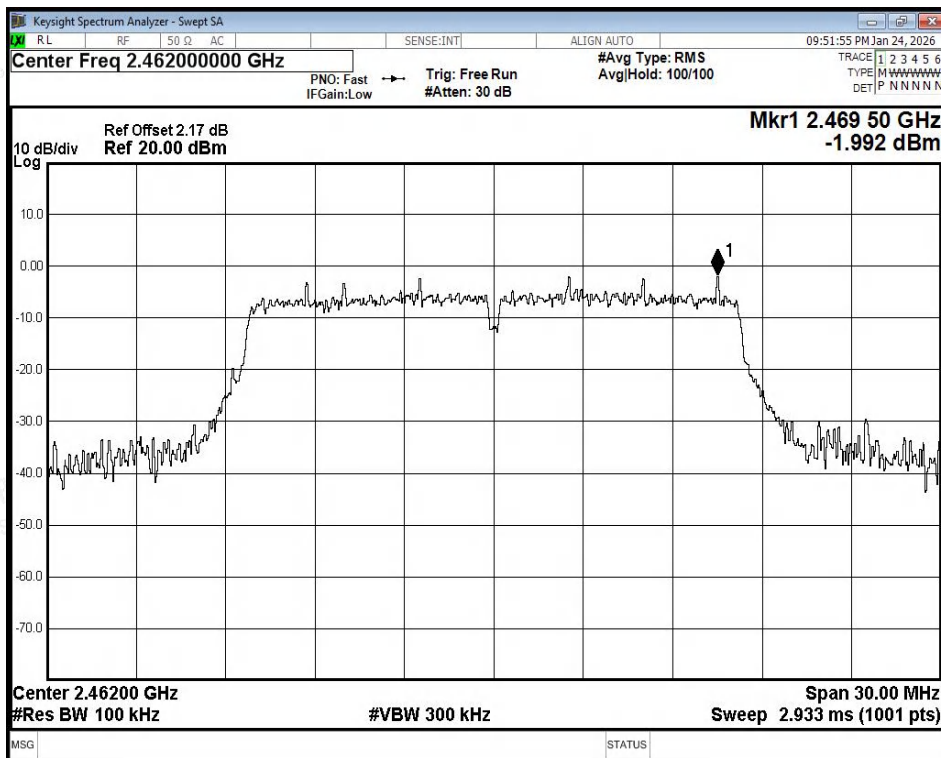


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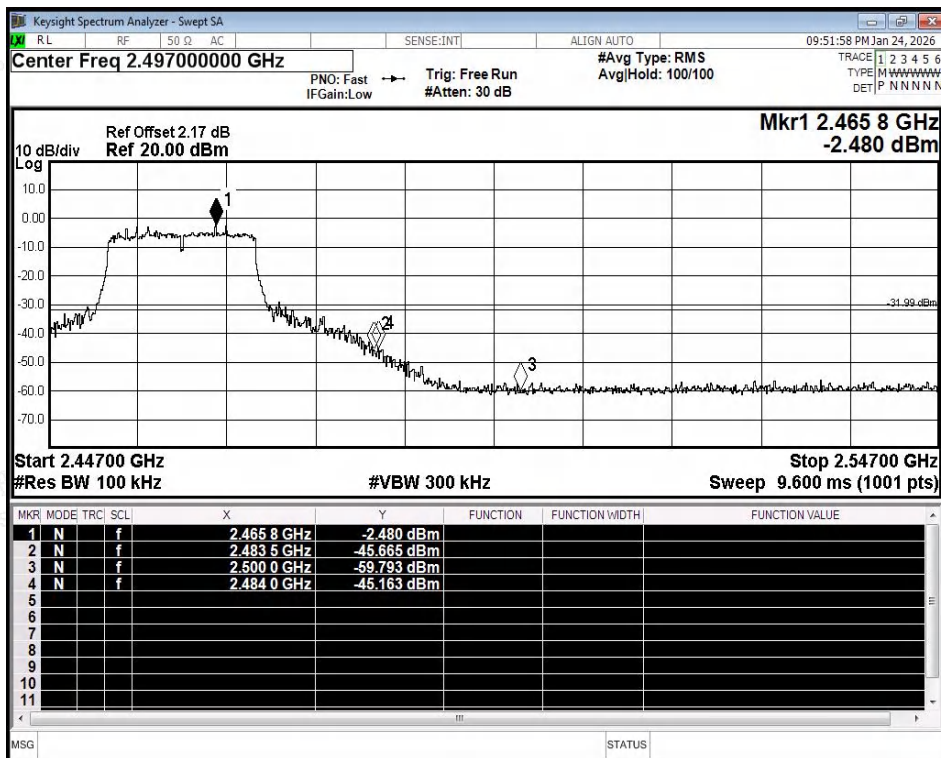
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-41.51	-30	Pass
NVNT	b	2437	Ant1	-43.69	-30	Pass
NVNT	b	2462	Ant1	-43.21	-30	Pass
NVNT	g	2412	Ant1	-40.88	-30	Pass
NVNT	g	2437	Ant1	-39.24	-30	Pass
NVNT	g	2462	Ant1	-39.9	-30	Pass

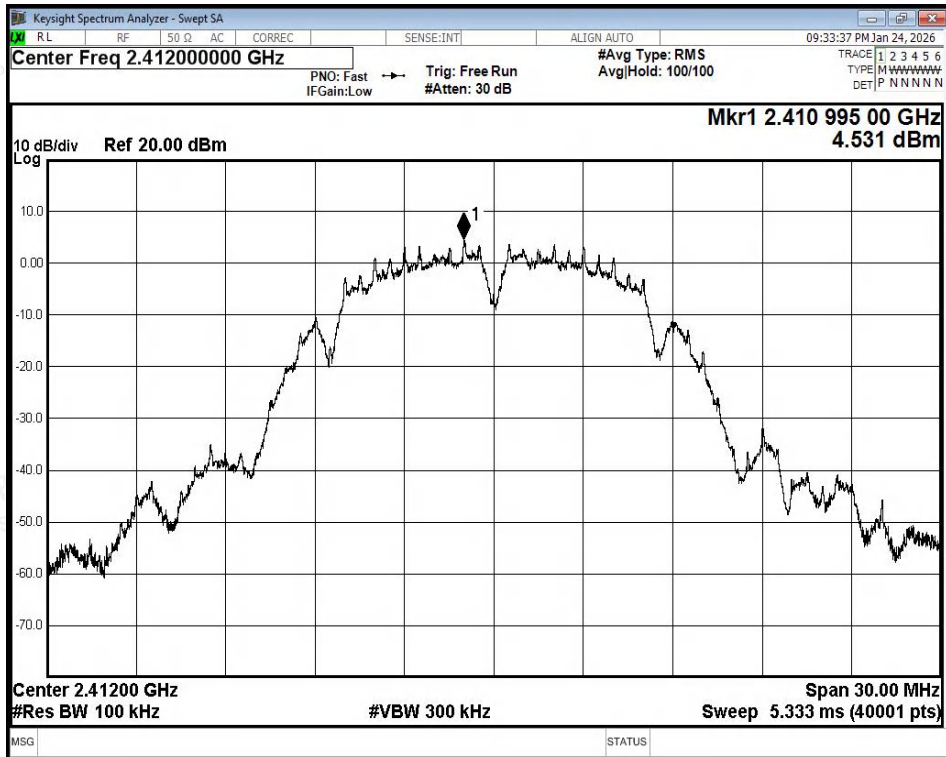


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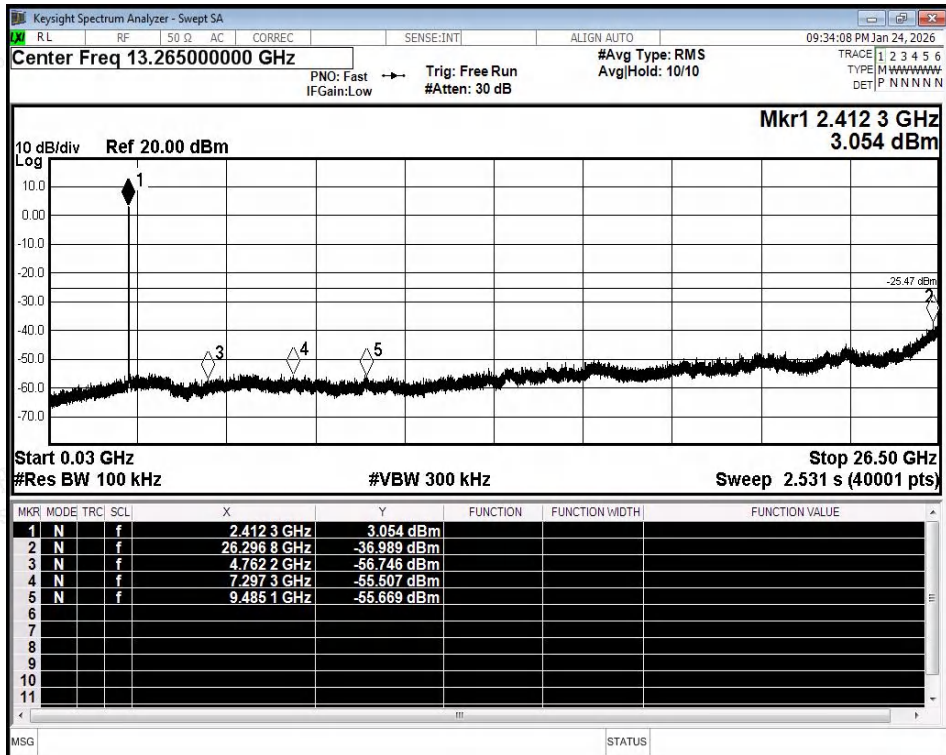
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Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

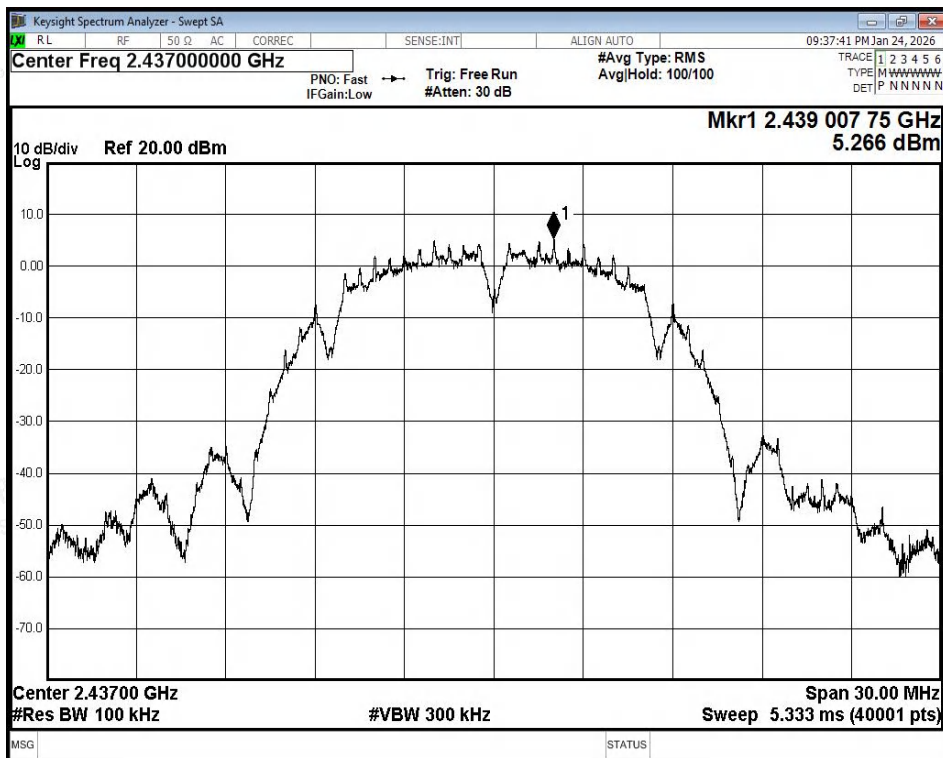


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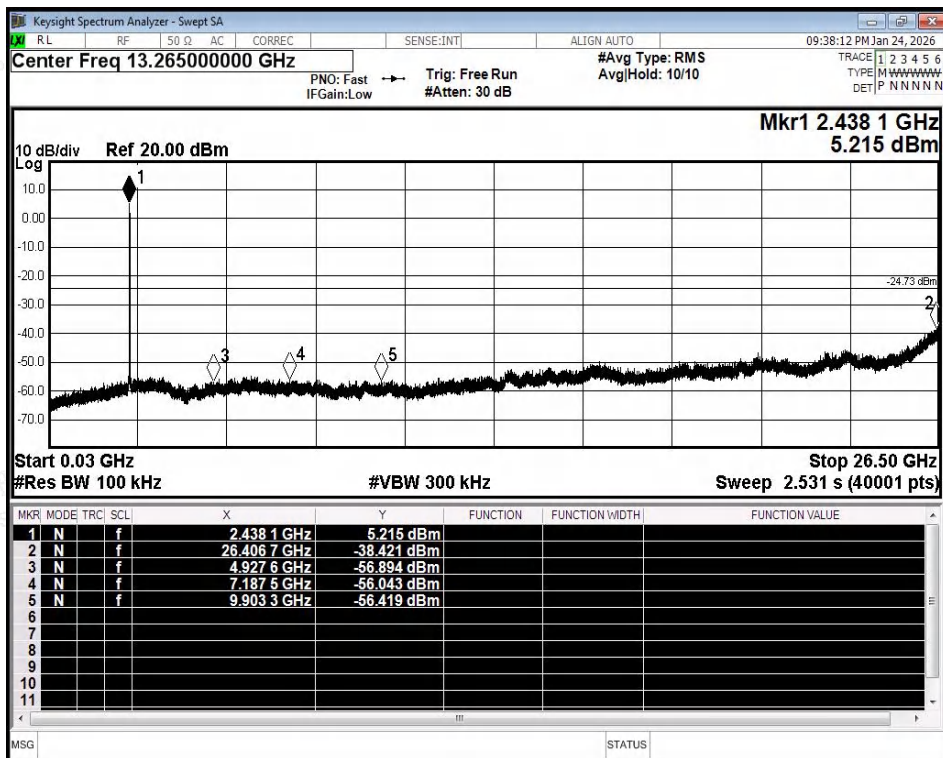
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Tx. Spurious NVNT b 2437MHz Ant1 Emission

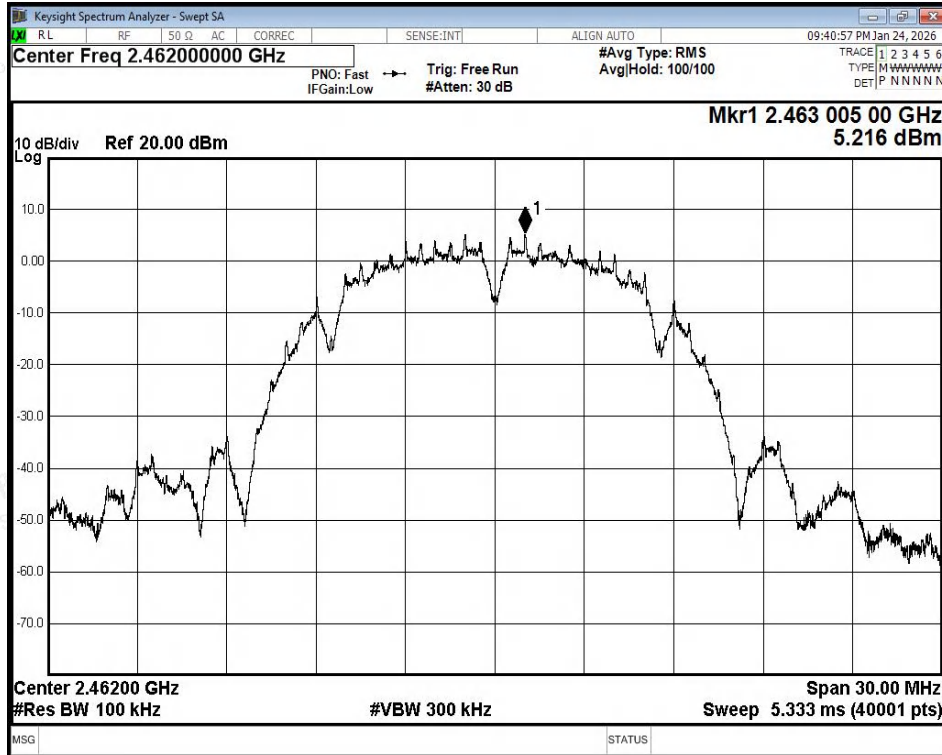


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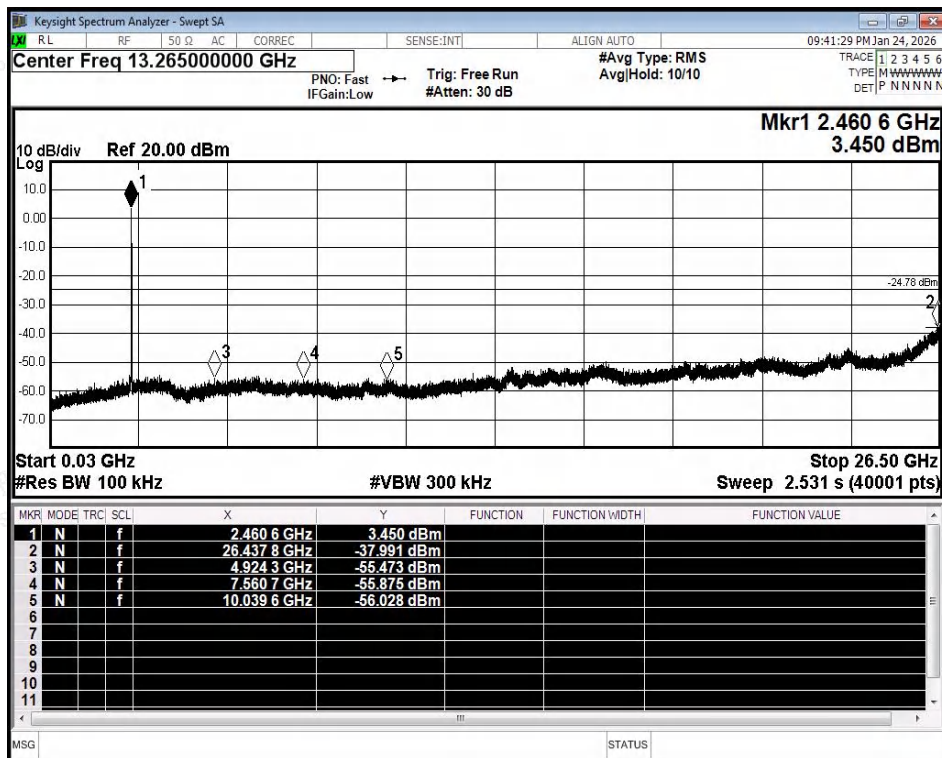
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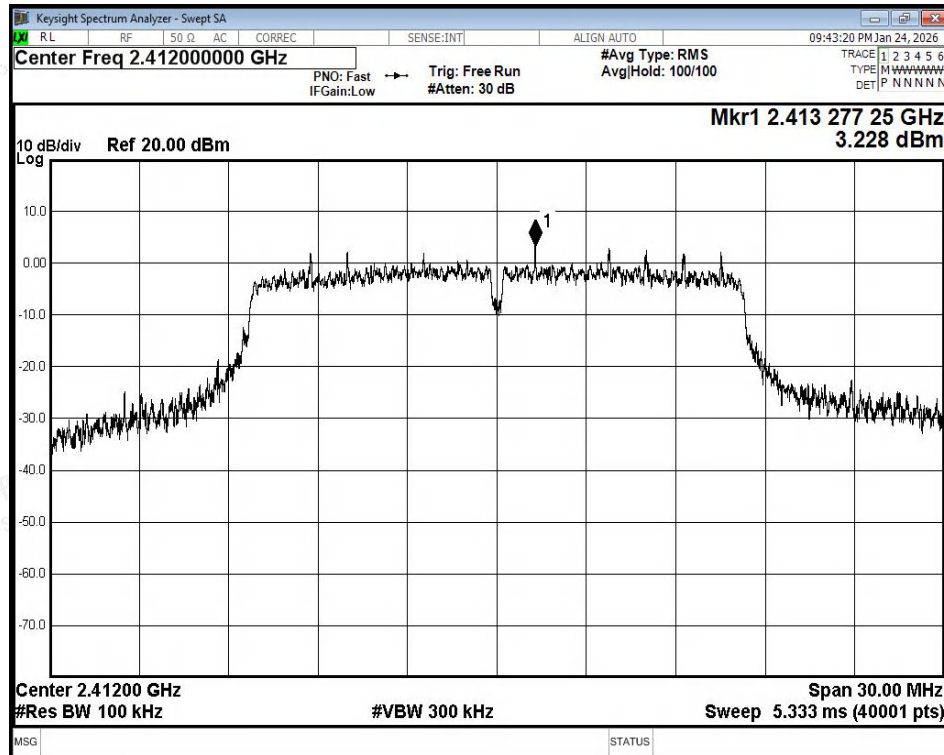


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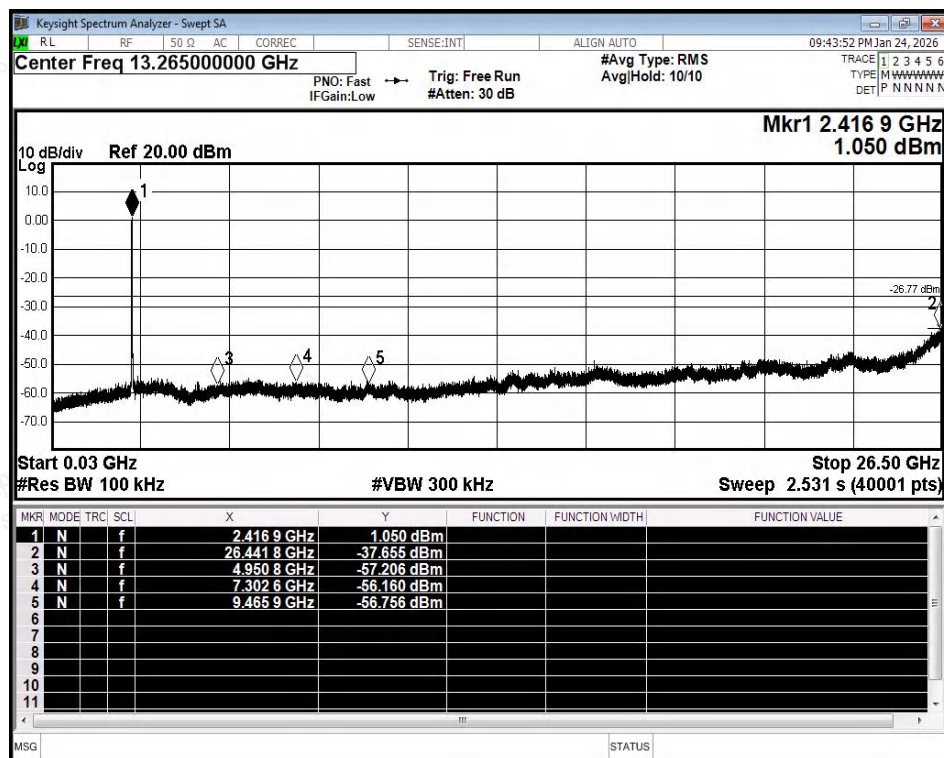
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

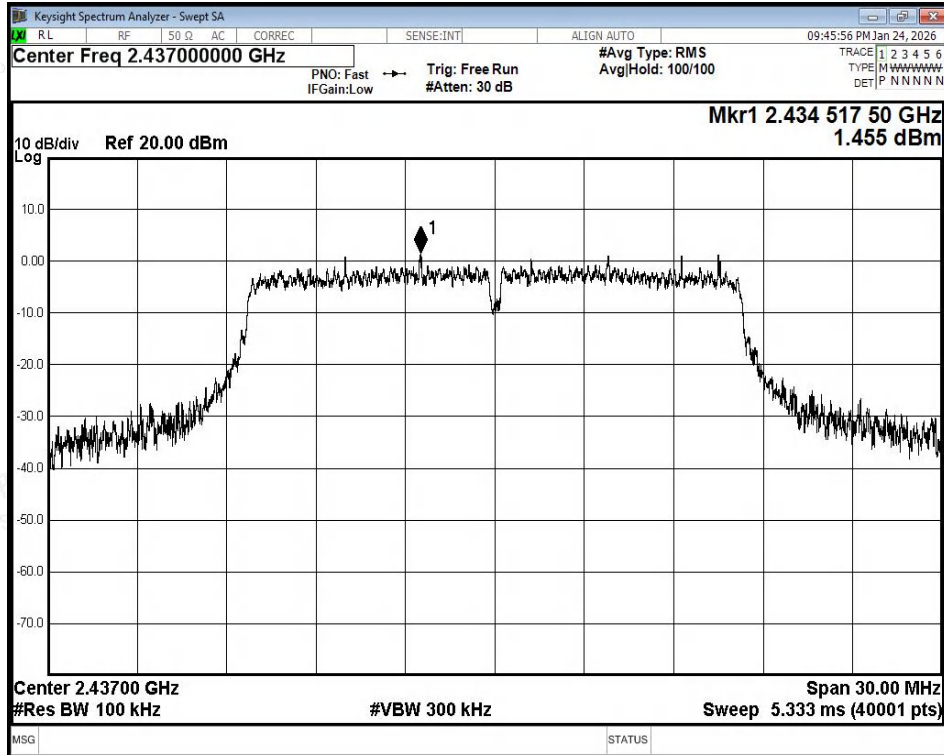


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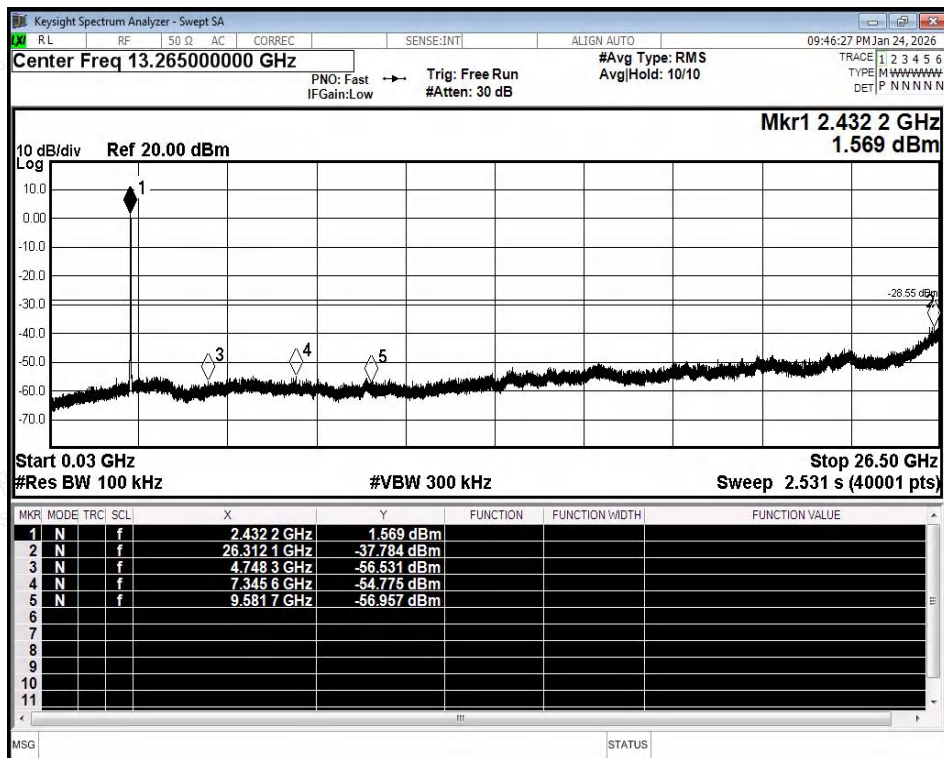
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Tx. Spurious NVNT g 2437MHz Ant1 Emission

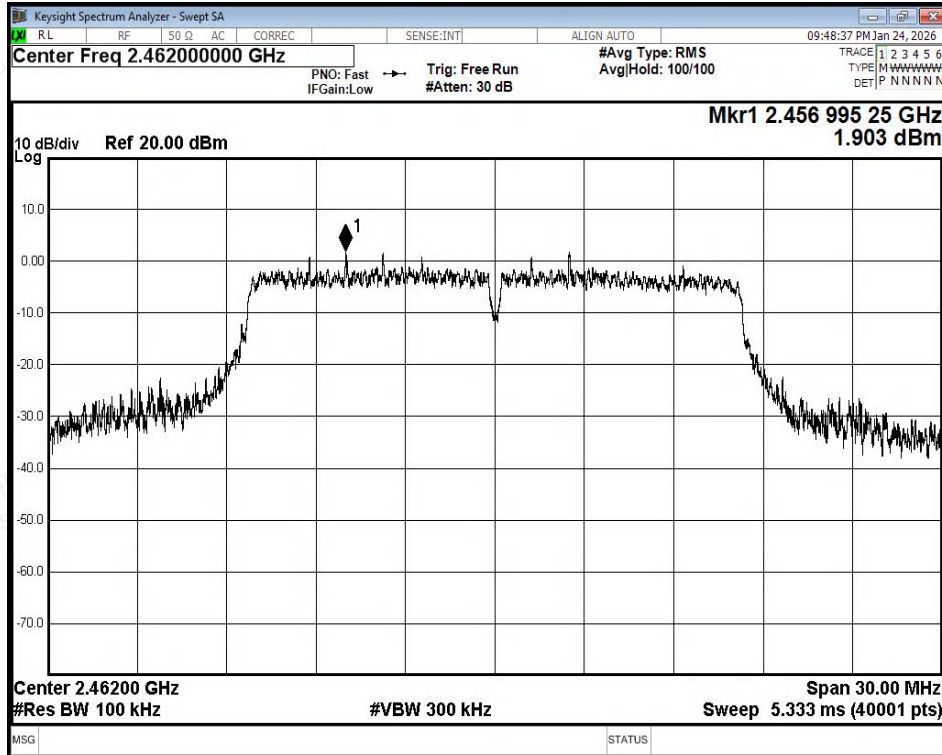


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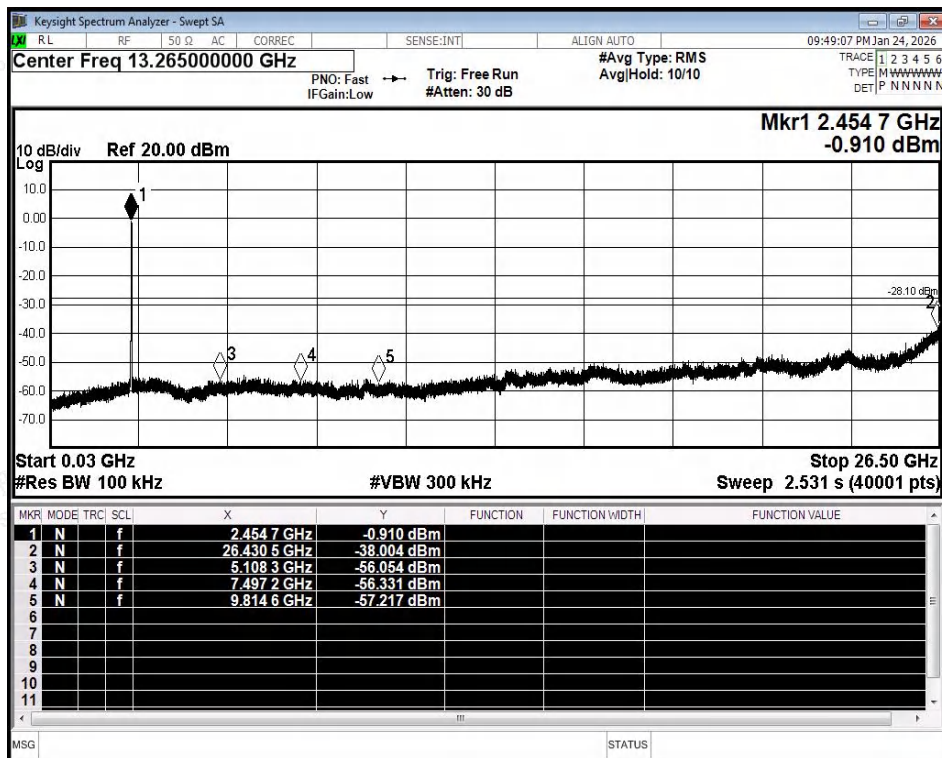
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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.72	0.01	0
NVNT	b	2437	Ant1	99.64	0.02	0.06
NVNT	b	2462	Ant1	99.72	0.01	0
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.68	0.1	0.37

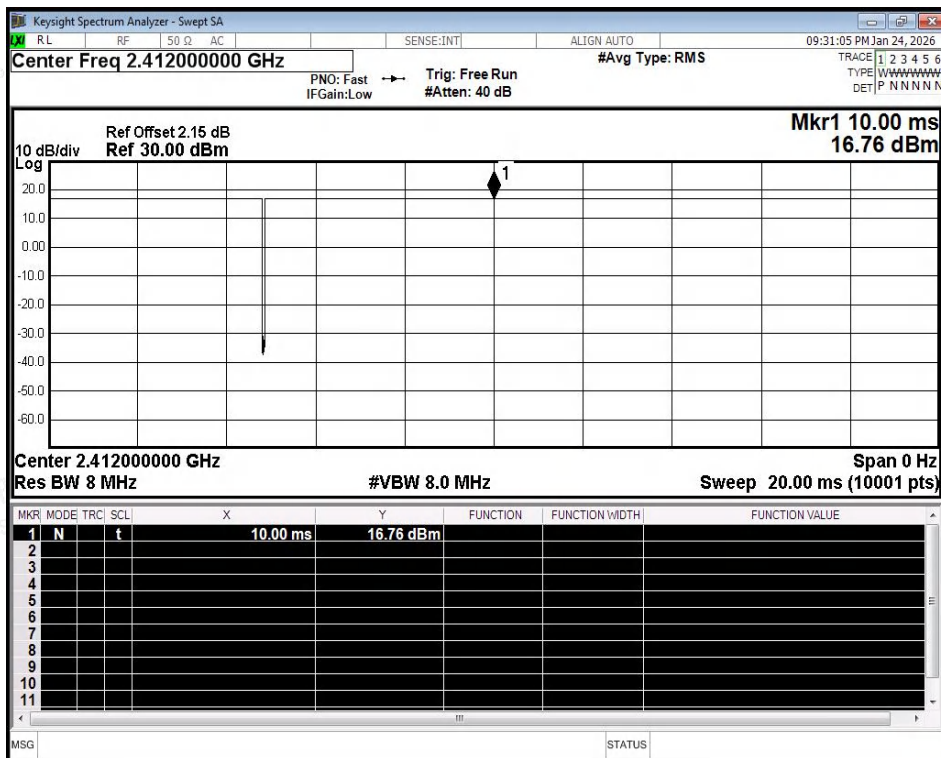


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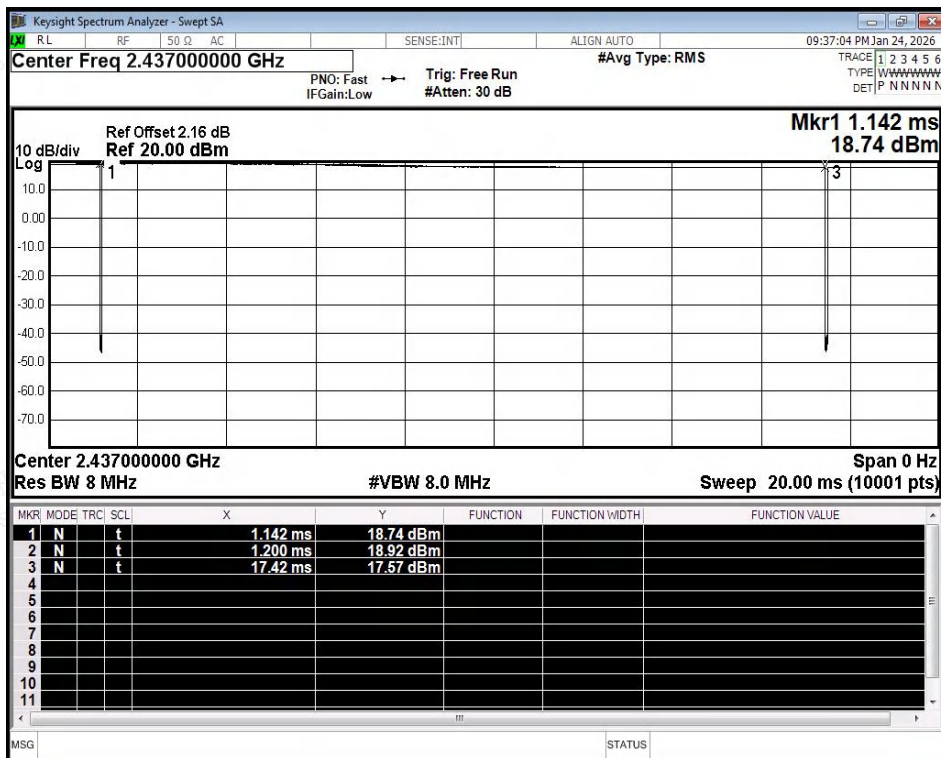
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Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

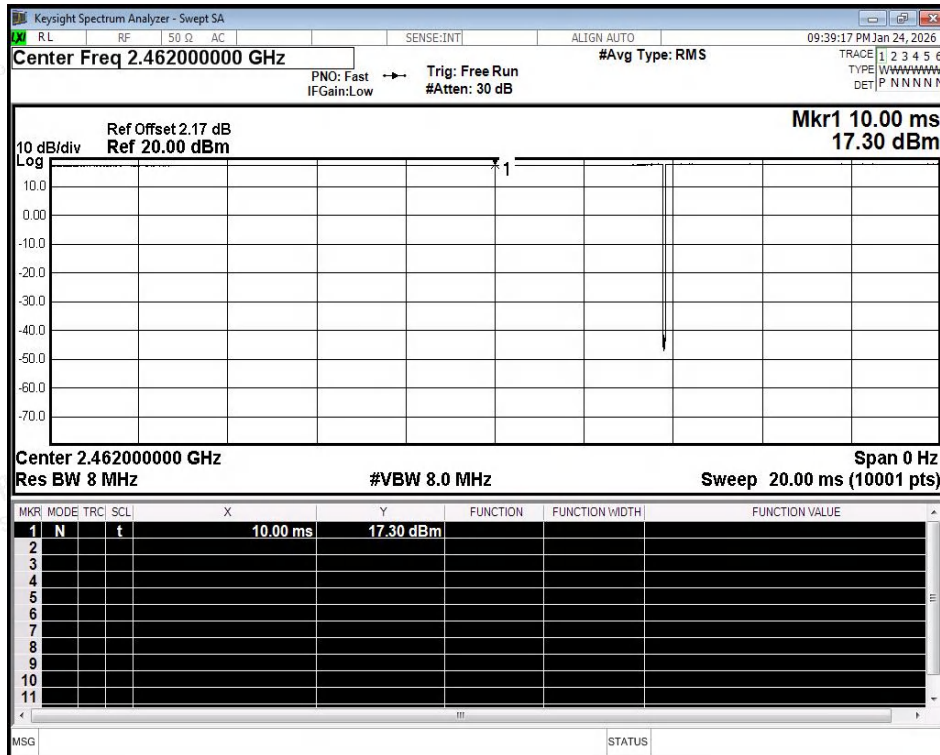


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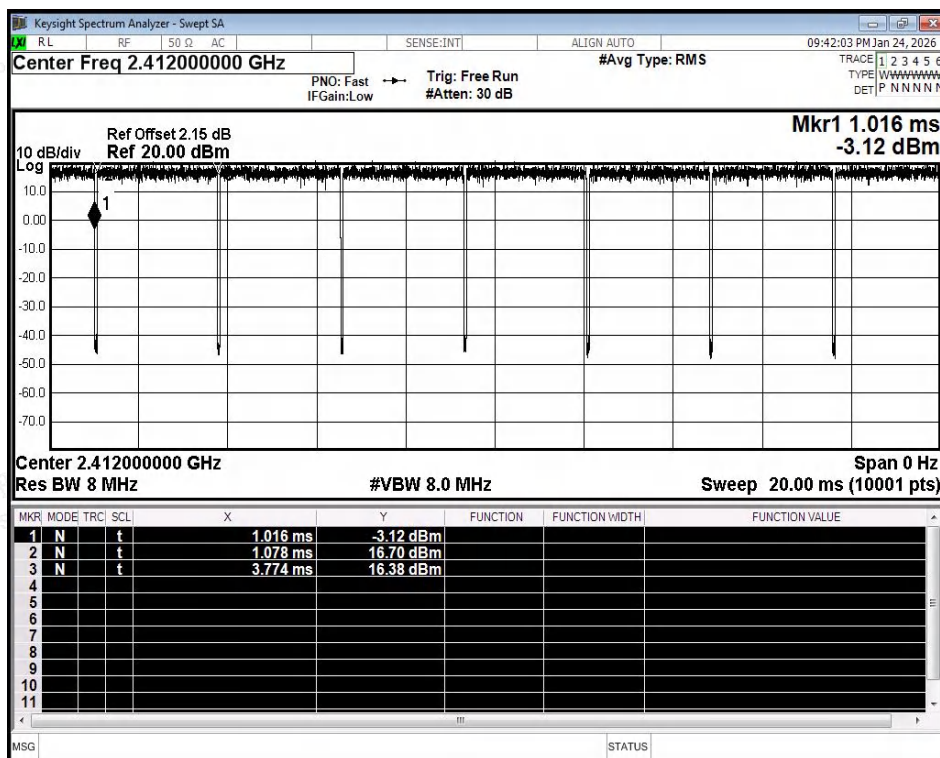
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Duty Cycle NVNT g 2412MHz Ant1

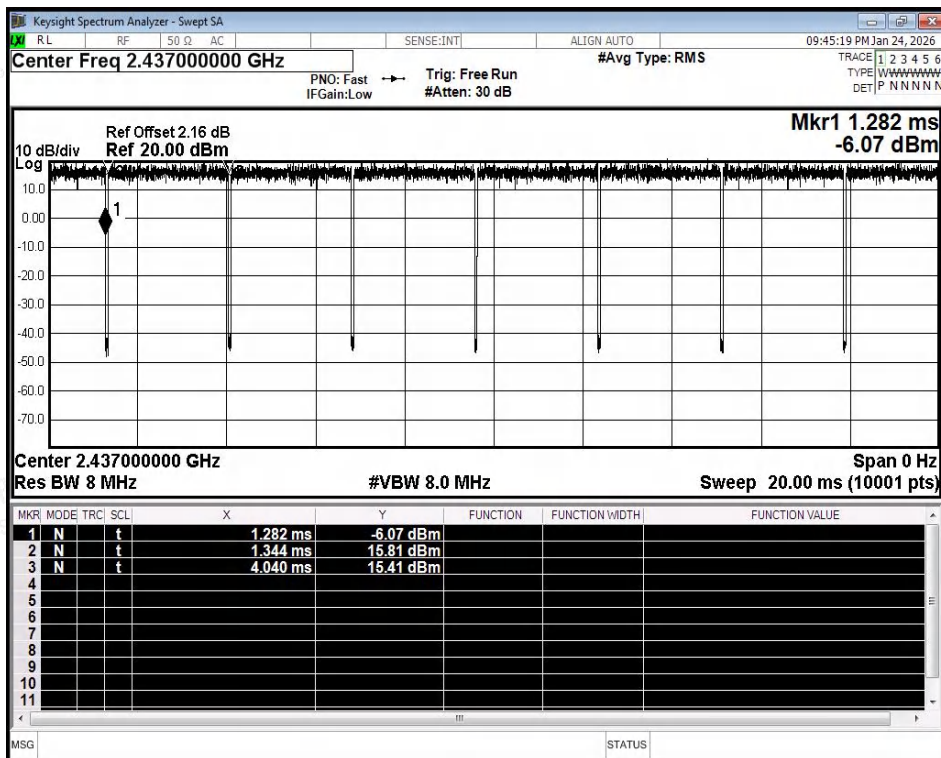


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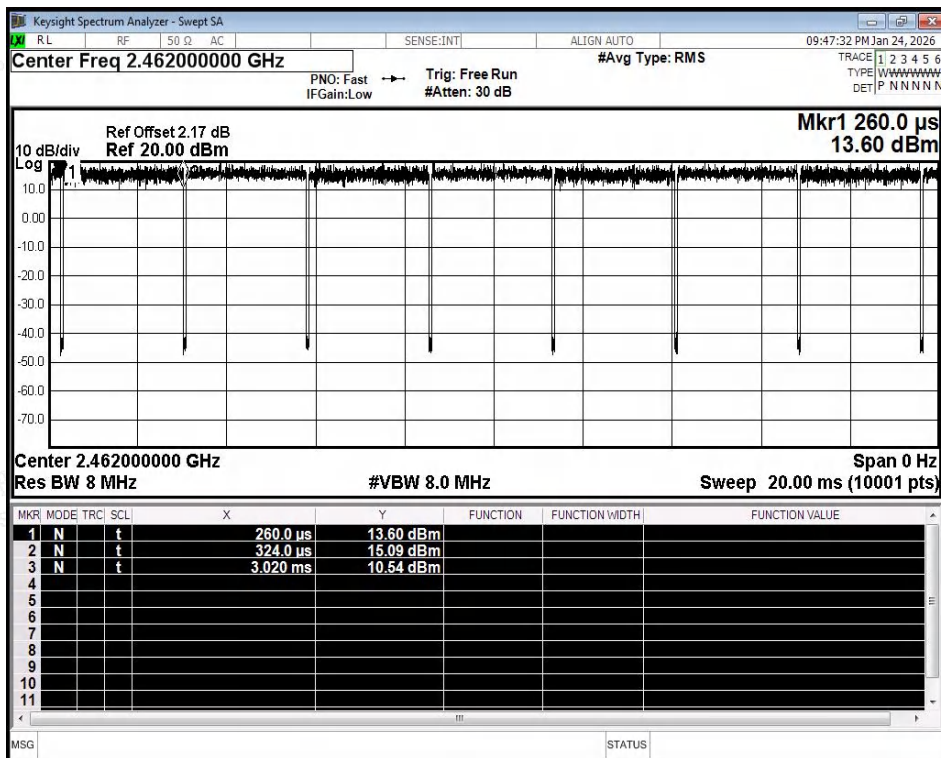
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Duty Cycle NVNT g 2437MHz Ant1



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A.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	-51.46	3.0	46.80	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.85	3.0	40.41	Average	54	Pass
NVNT	b	2412	Ant1	2389.443	-45.92	3.0	52.34	Peak	74	Pass
NVNT	b	2412	Ant1	2389.326	-55.7	3.0	42.56	Average	54	Pass
NVNT	b	2412	Ant1	2390	-49.42	3.0	48.84	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56	3.0	42.26	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.45	3.0	49.81	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.9	3.0	43.36	Average	54	Pass
NVNT	b	2462	Ant1	2486.75	-42.14	3.0	56.12	Peak	74	Pass
NVNT	b	2462	Ant1	2484.577	-54.88	3.0	43.38	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.83	3.0	47.43	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.7	3.0	40.56	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.58	3.0	47.68	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.6	3.0	40.66	Average	54	Pass
NVNT	g	2412	Ant1	2388.858	-32.86	3.0	65.40	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-50.1	3.0	48.16	Average	54	Pass
NVNT	g	2412	Ant1	2390	-39.86	3.0	58.40	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-49.96	3.0	48.30	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-31.59	3.0	66.67	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-46.65	3.0	51.61	Average	54	Pass
NVNT	g	2462	Ant1	2485.054	-29.09	3.0	69.17	Peak	74	Pass
NVNT	g	2462	Ant1	2483.729	-46.52	3.0	51.74	Average	54	Pass
NVNT	g	2462	Ant1	2500	-59.46	3.0	38.80	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-67.21	3.0	31.05	Average	54	Pass

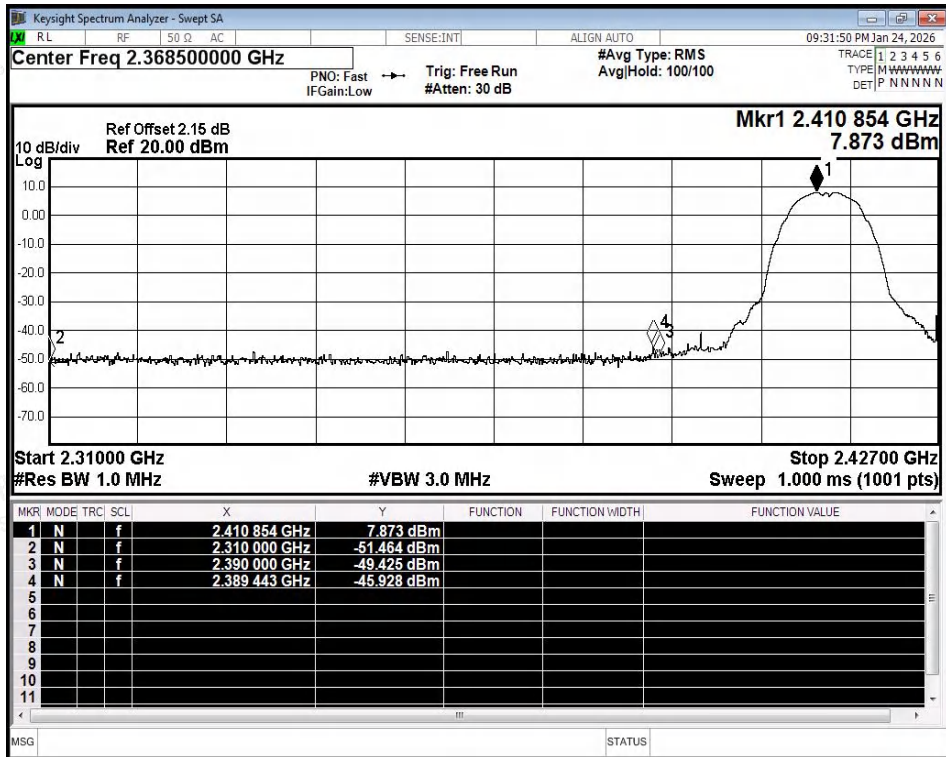


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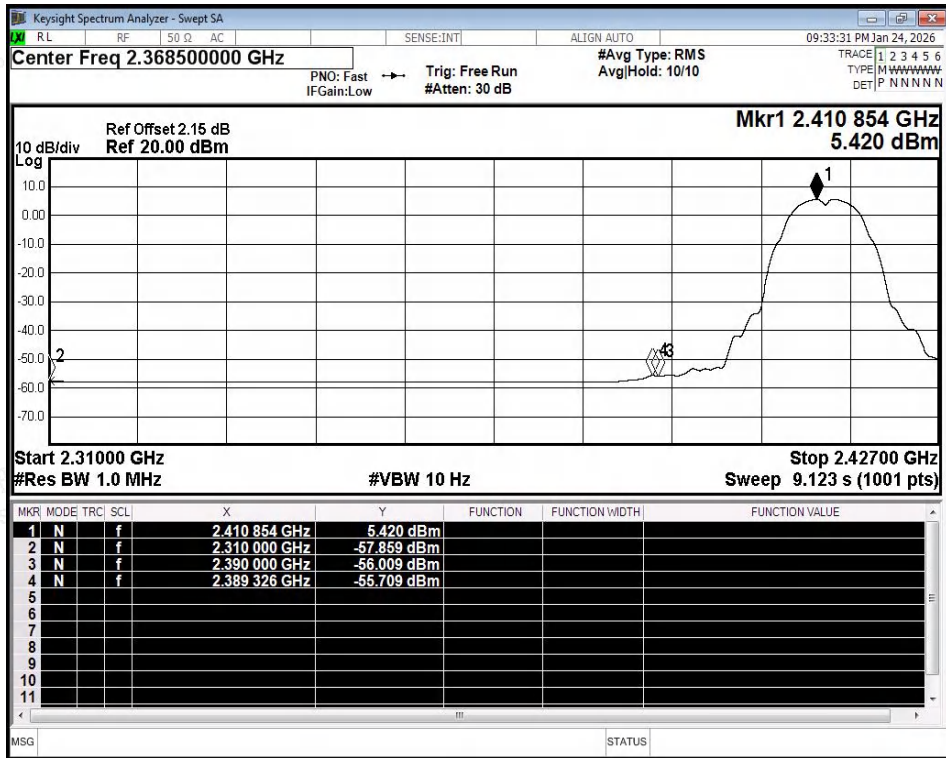
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

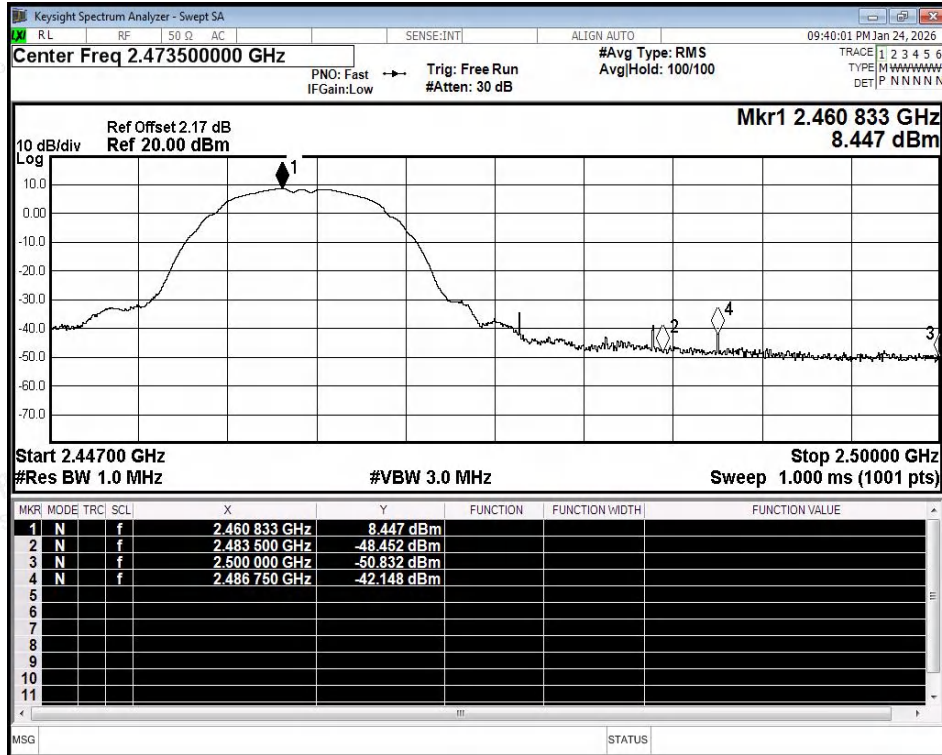


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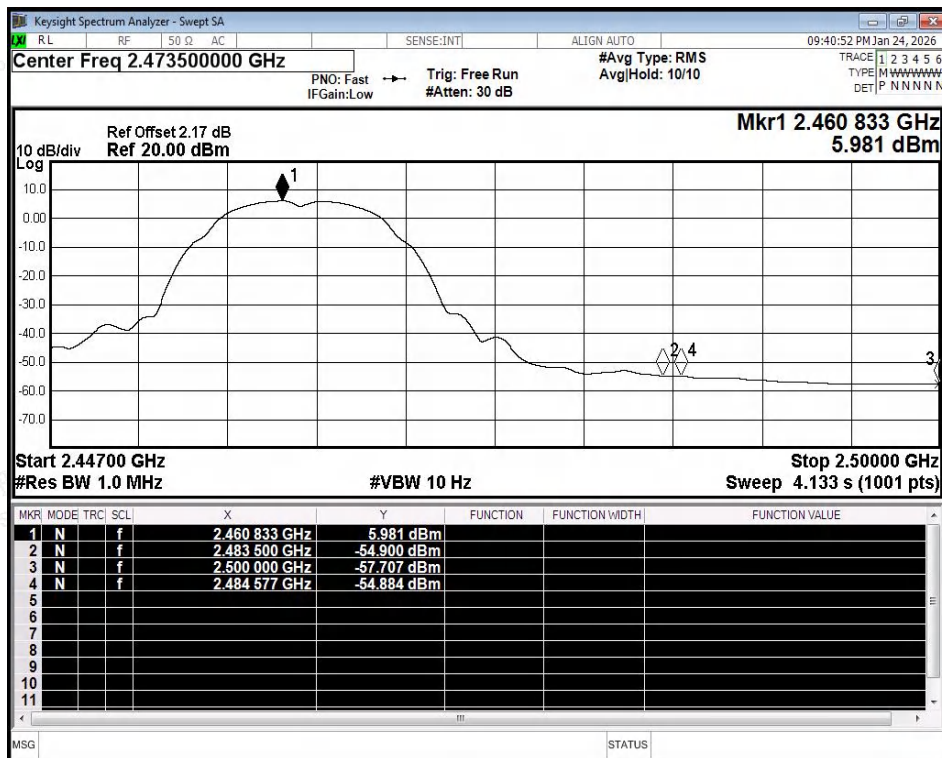
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

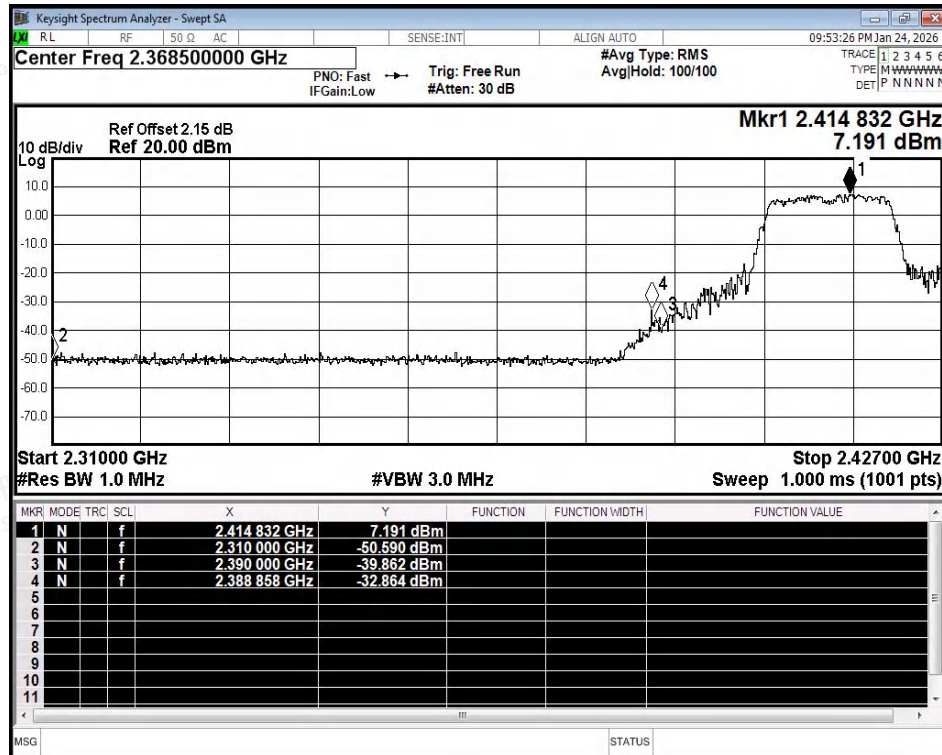


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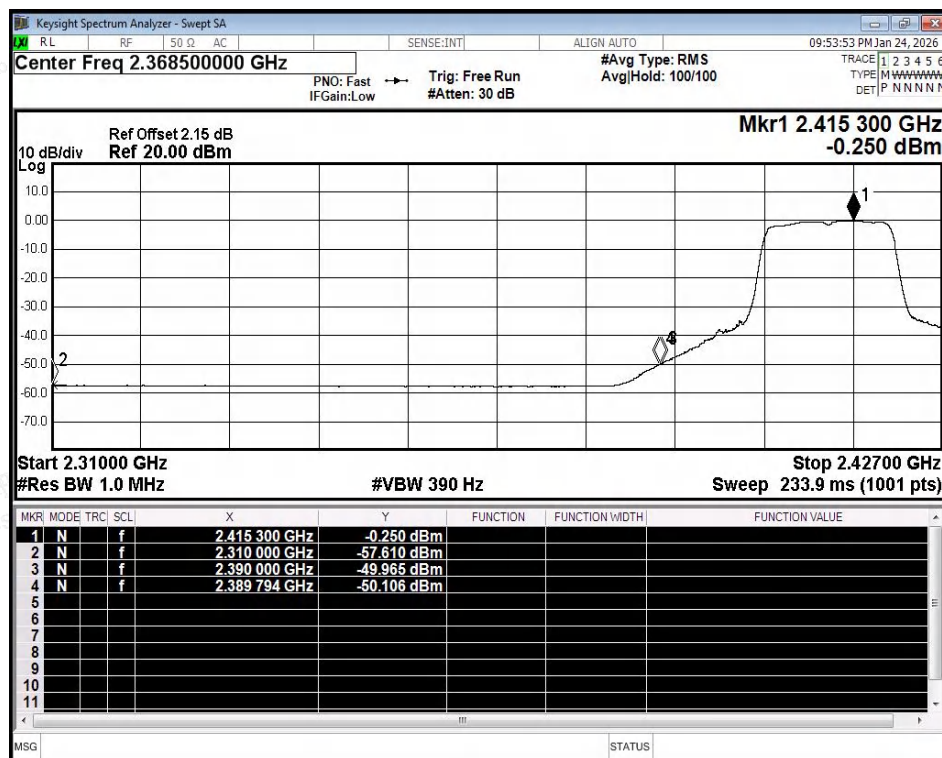
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

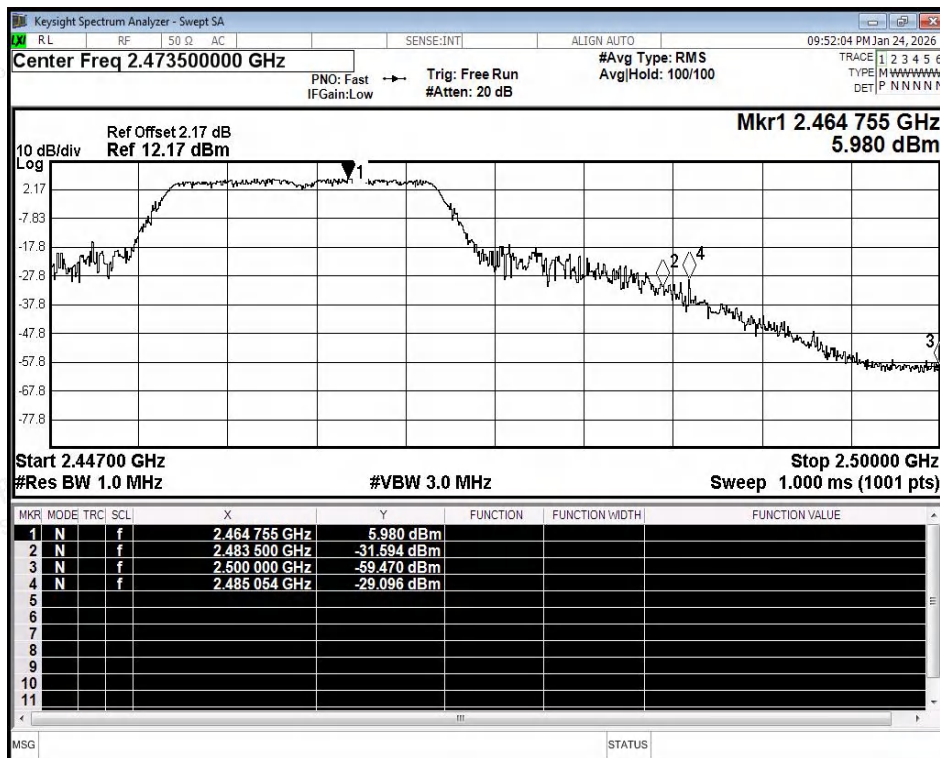


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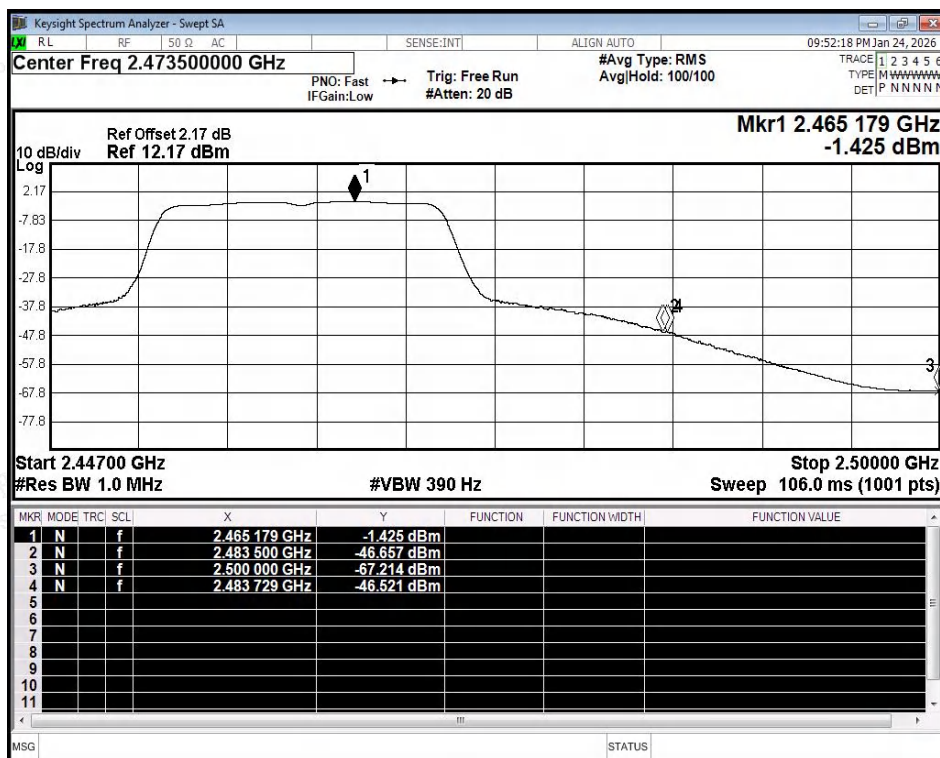
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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