



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Diagnostic Tool

Test Model: Mini Scan Tool

Environmental Conditions

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



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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	Ant1	9.014	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.072	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.562	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.323	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.304	≥ 0.5	Pass
NVNT	g	2462	Ant1	15.829	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.87	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.941	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.962	≥ 0.5	Pass

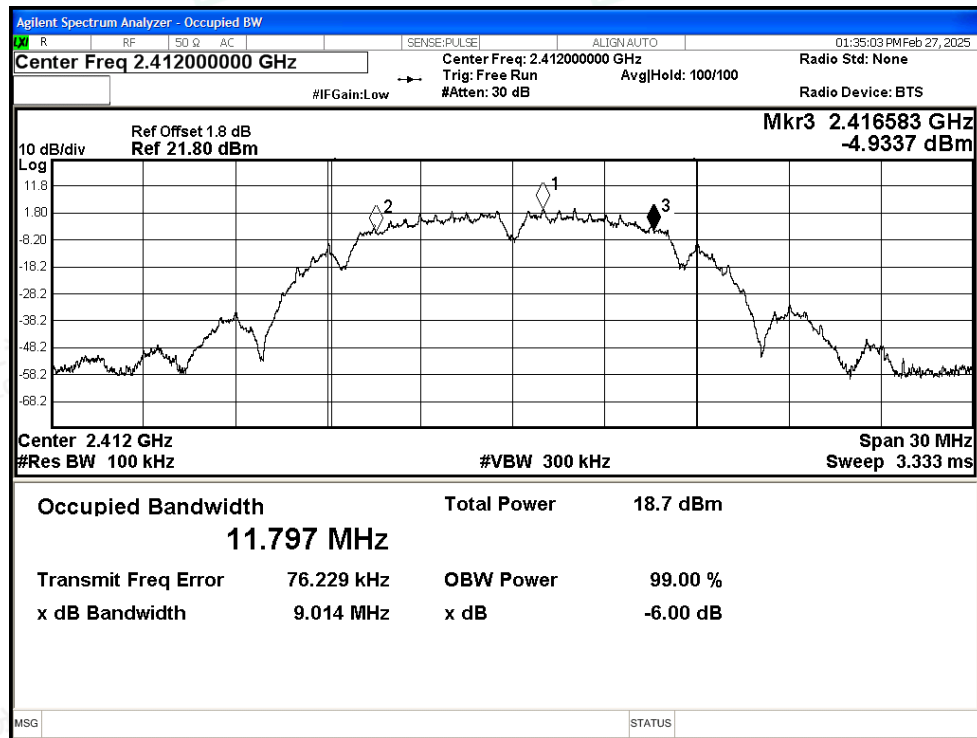


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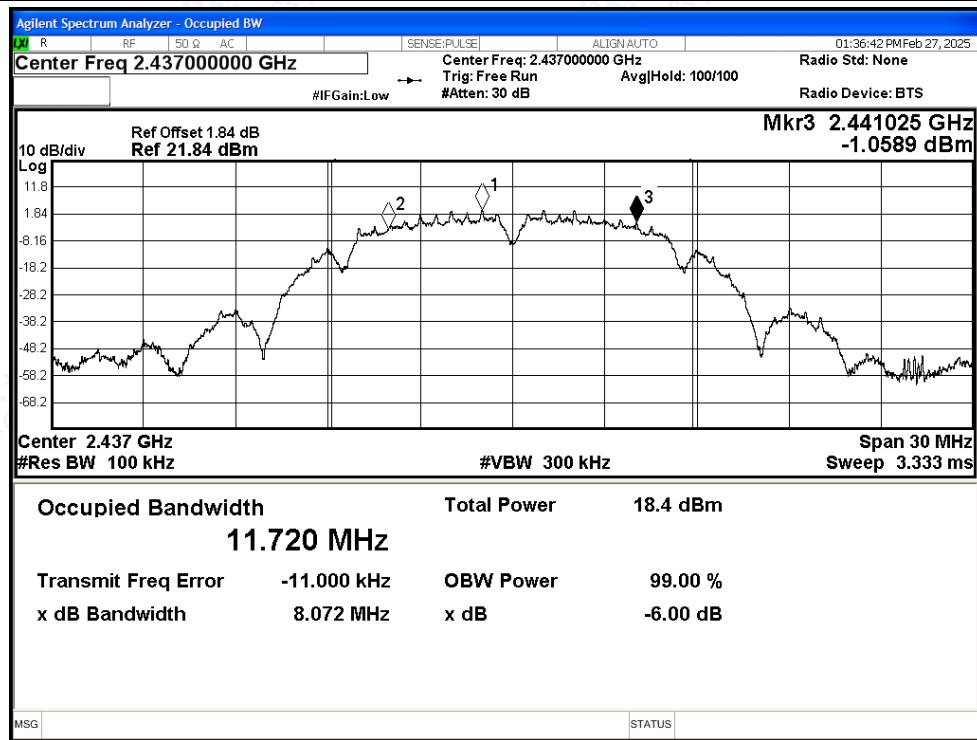


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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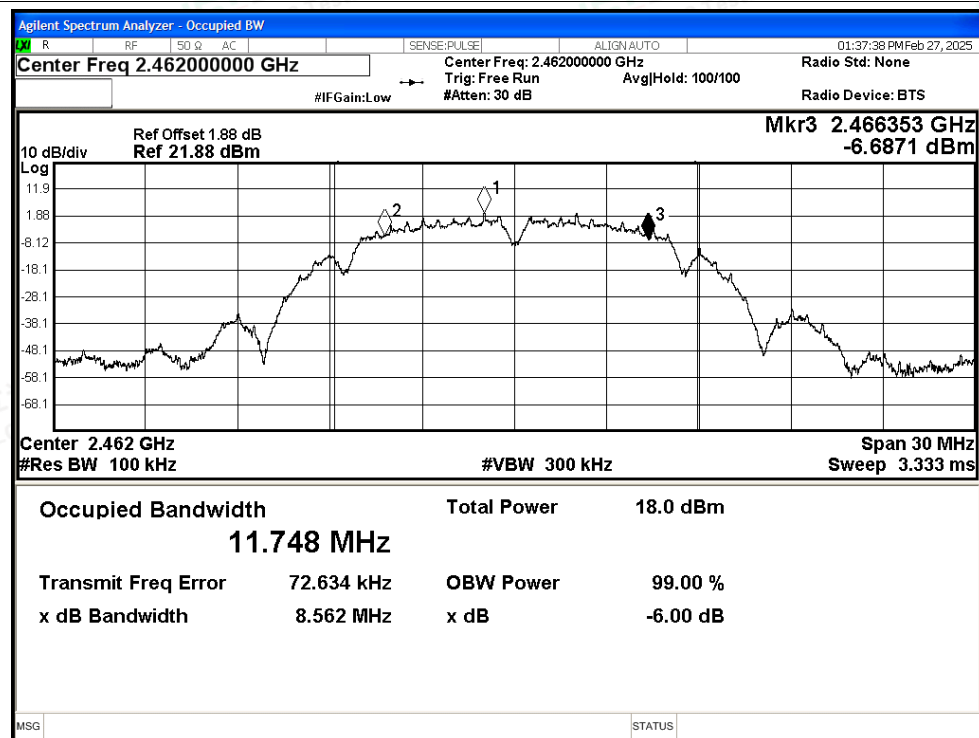
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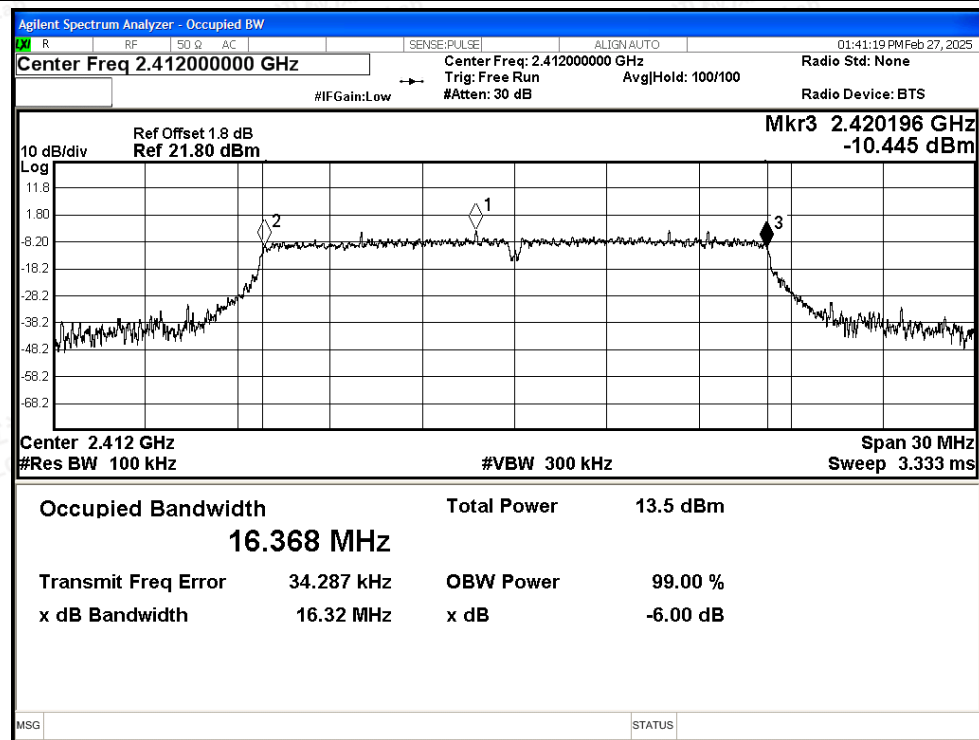
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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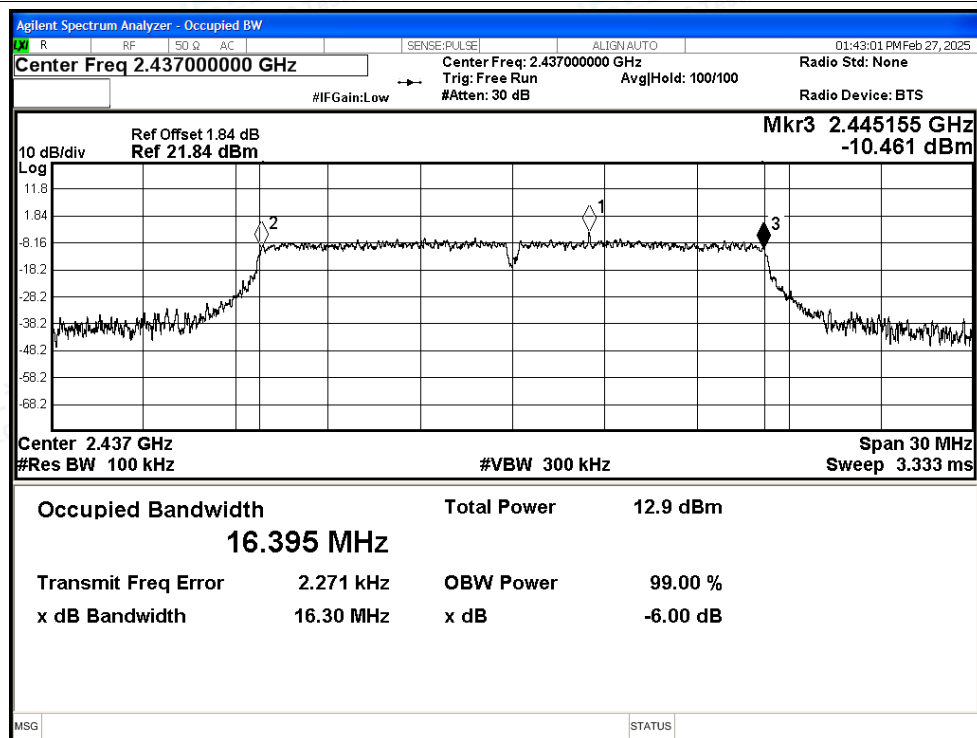
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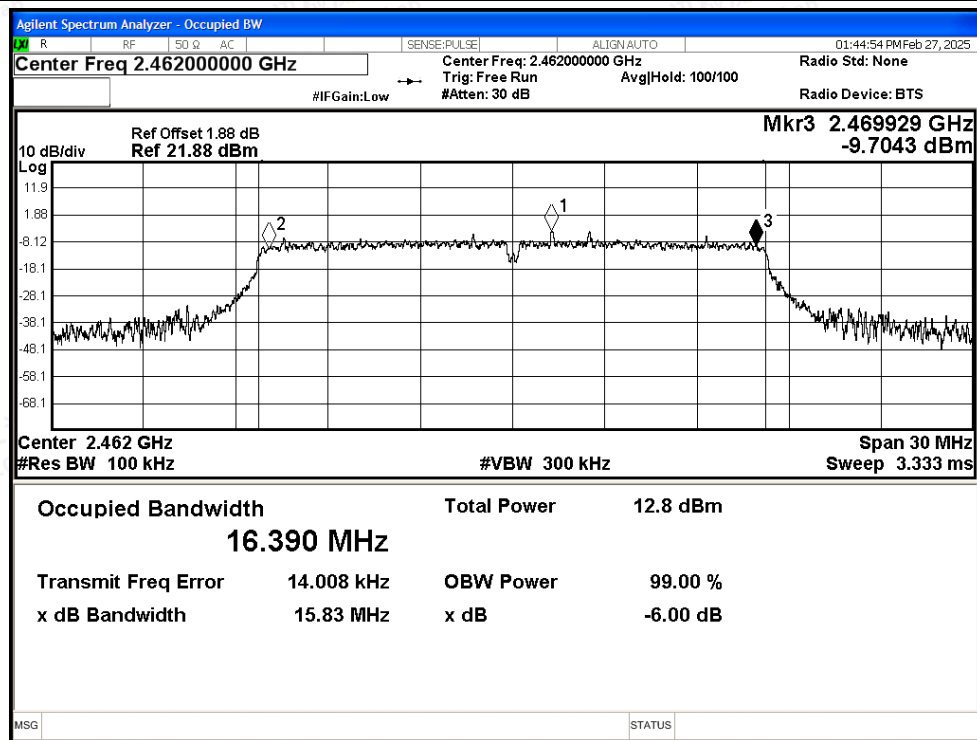
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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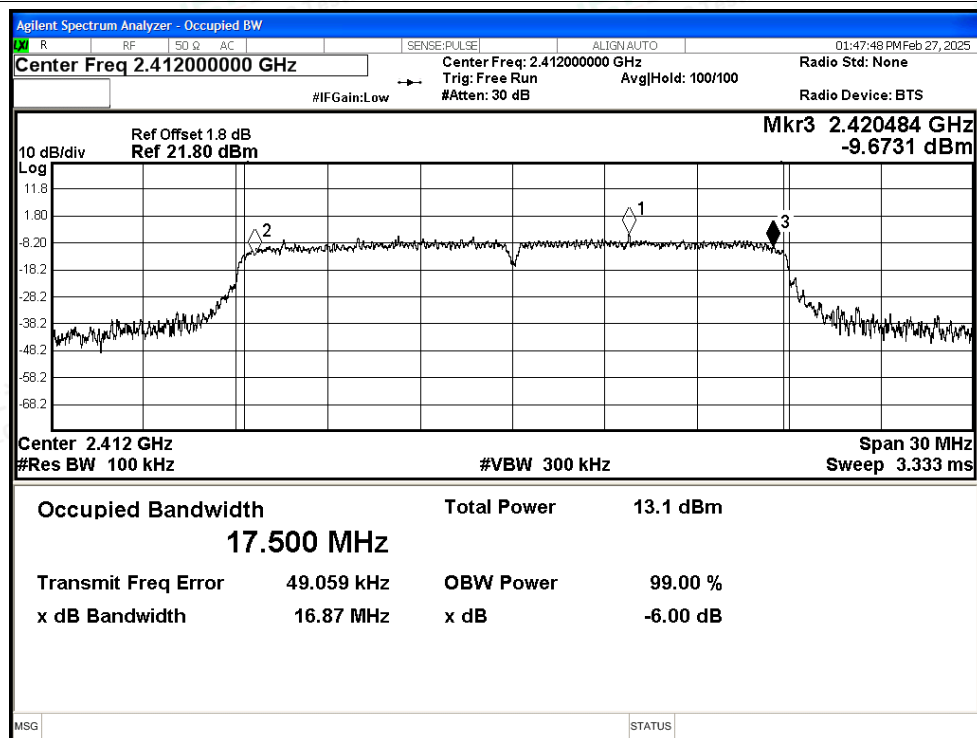
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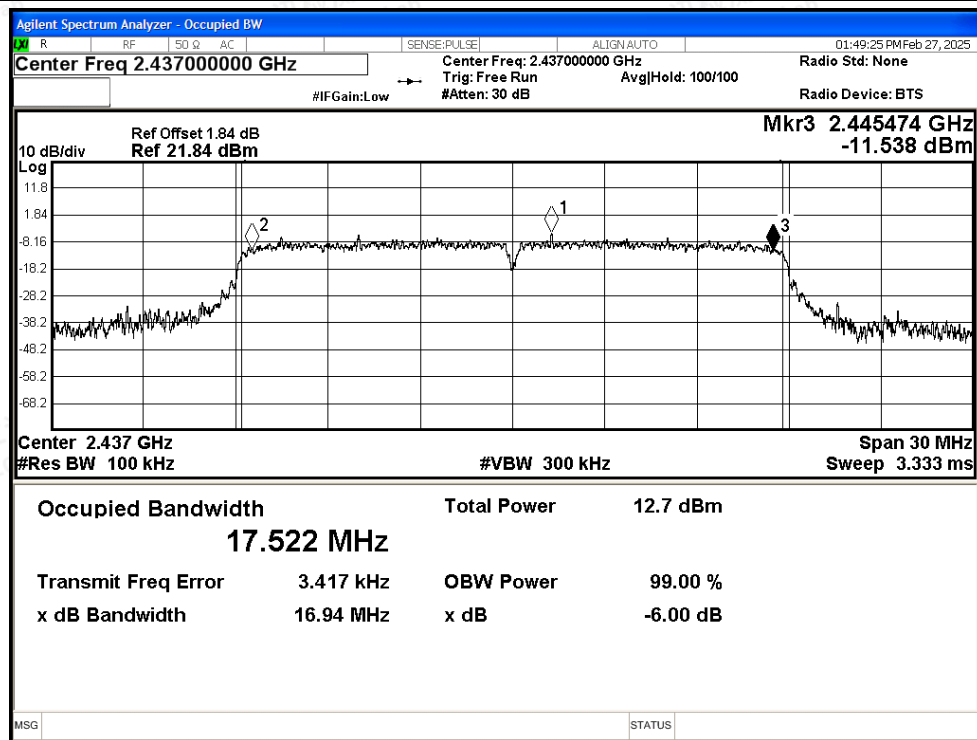
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

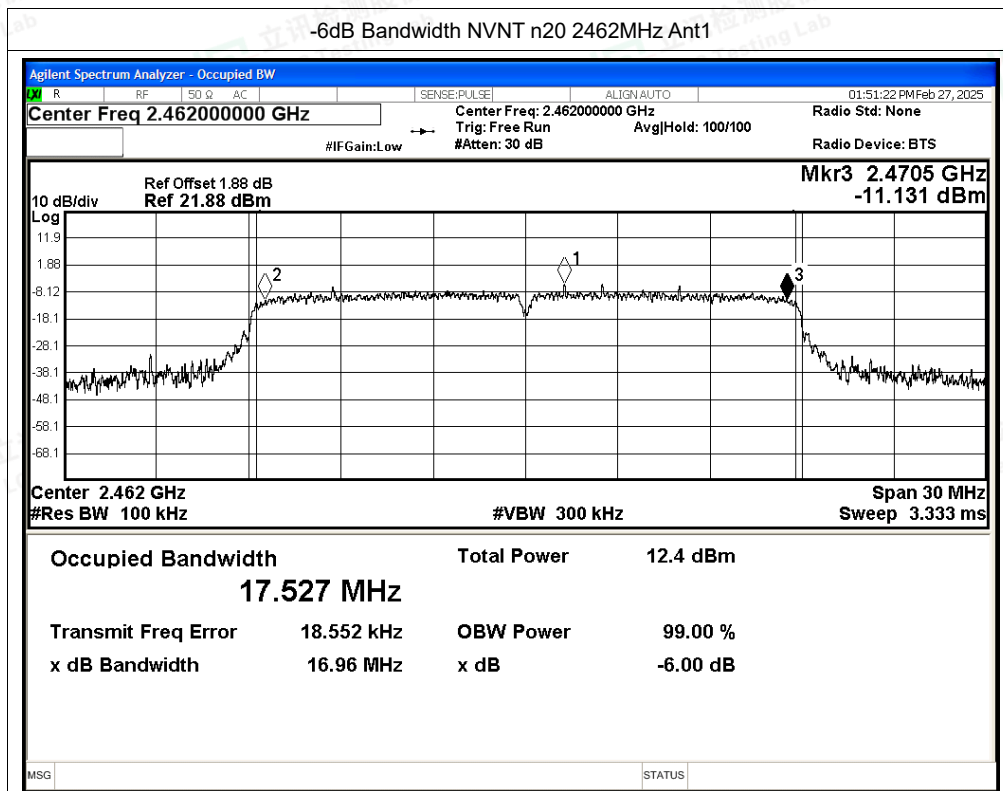


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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	7.53	30	Pass
NVNT	b	2437	Ant1	7.96	30	Pass
NVNT	b	2462	Ant1	7.81	30	Pass
NVNT	g	2412	Ant1	7.12	30	Pass
NVNT	g	2437	Ant1	7.46	30	Pass
NVNT	g	2462	Ant1	7.31	30	Pass
NVNT	n20	2412	Ant1	7.57	30	Pass
NVNT	n20	2437	Ant1	6.96	30	Pass
NVNT	n20	2462	Ant1	6.86	30	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.43	8	Pass
NVNT	b	2437	Ant1	-10.97	8	Pass
NVNT	b	2462	Ant1	-11.79	8	Pass
NVNT	g	2412	Ant1	-18.5	8	Pass
NVNT	g	2437	Ant1	-18.89	8	Pass
NVNT	g	2462	Ant1	-19.31	8	Pass
NVNT	n20	2412	Ant1	-18.11	8	Pass
NVNT	n20	2437	Ant1	-19.31	8	Pass
NVNT	n20	2462	Ant1	-18.41	8	Pass

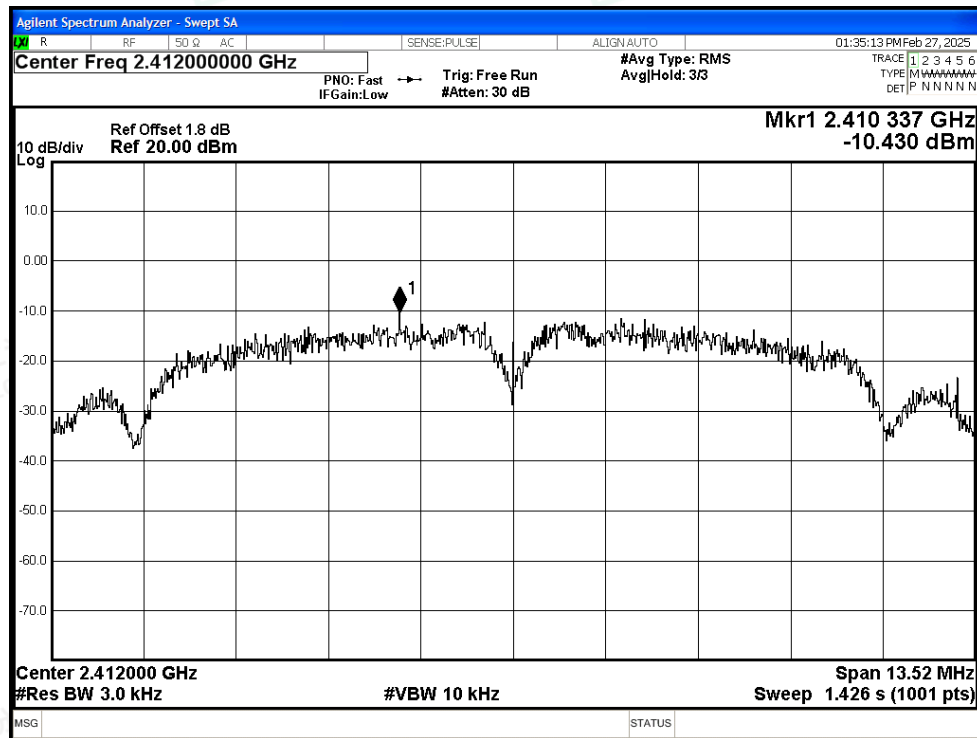


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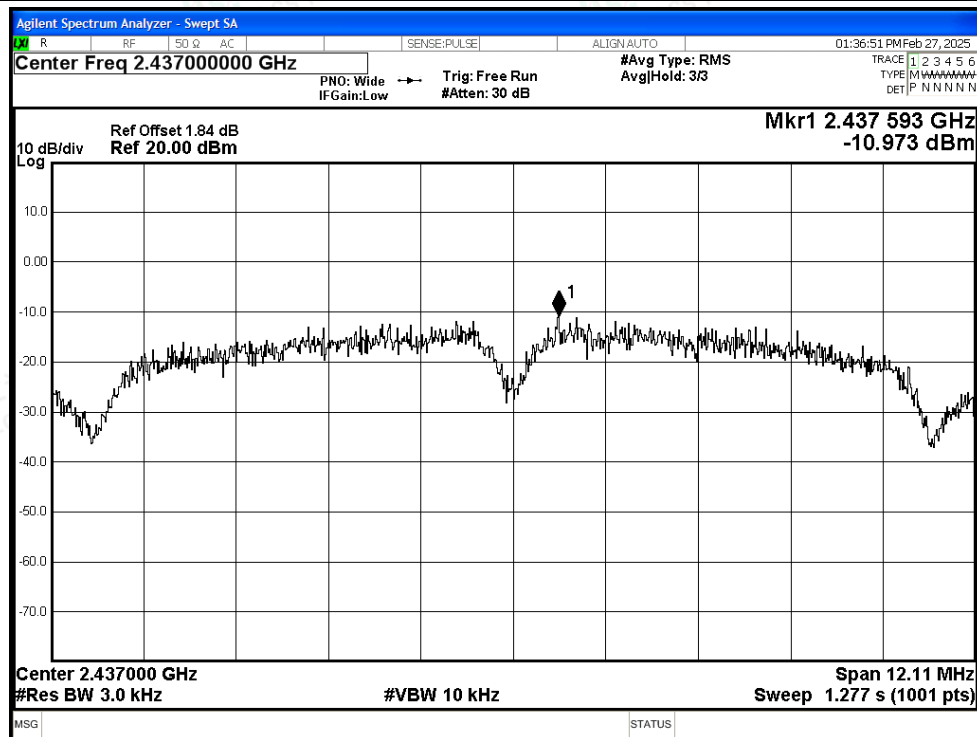


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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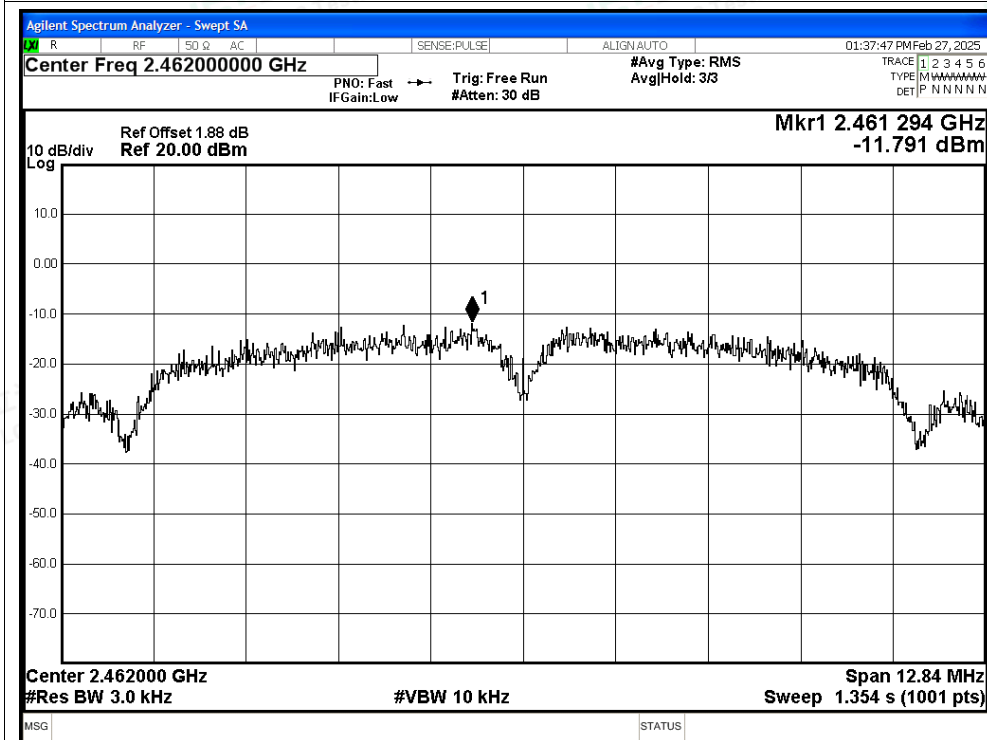
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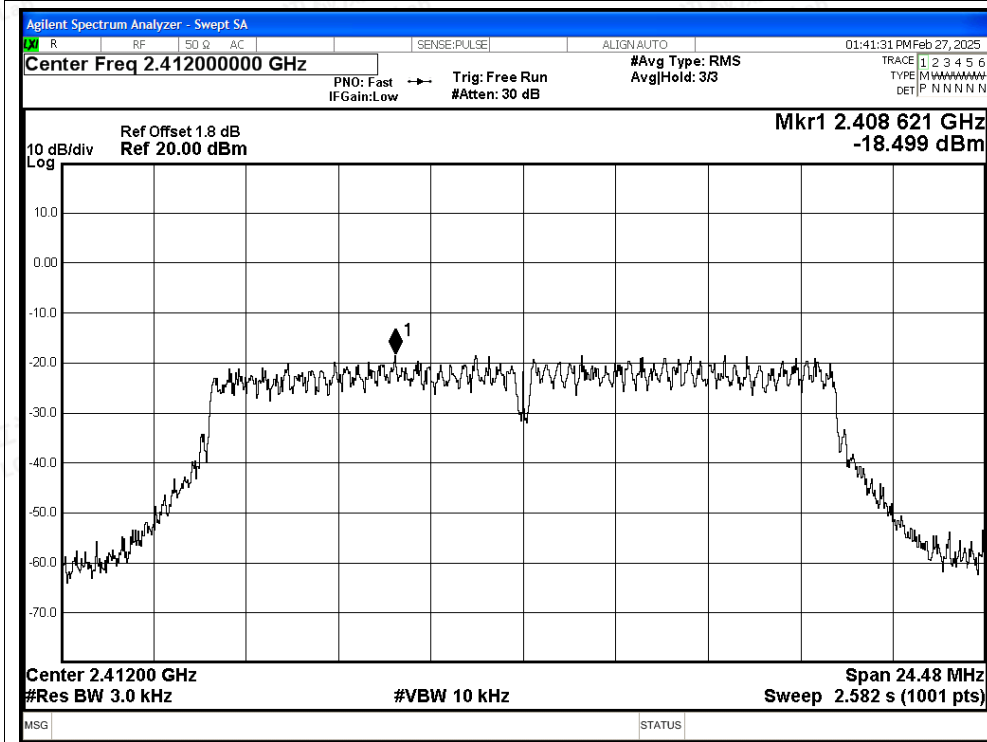
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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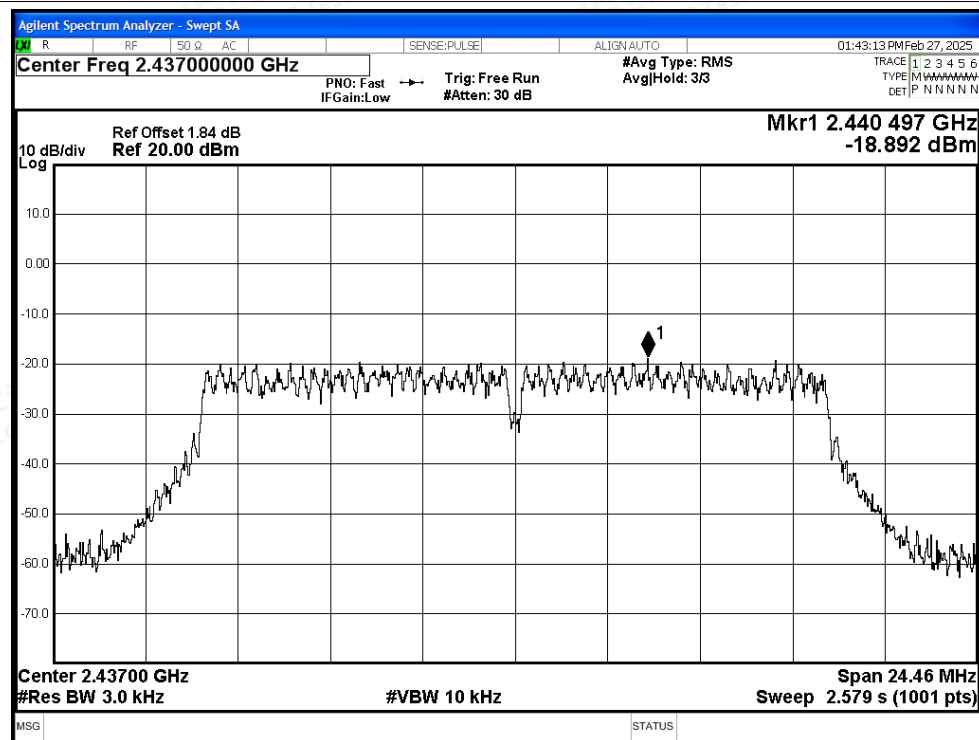
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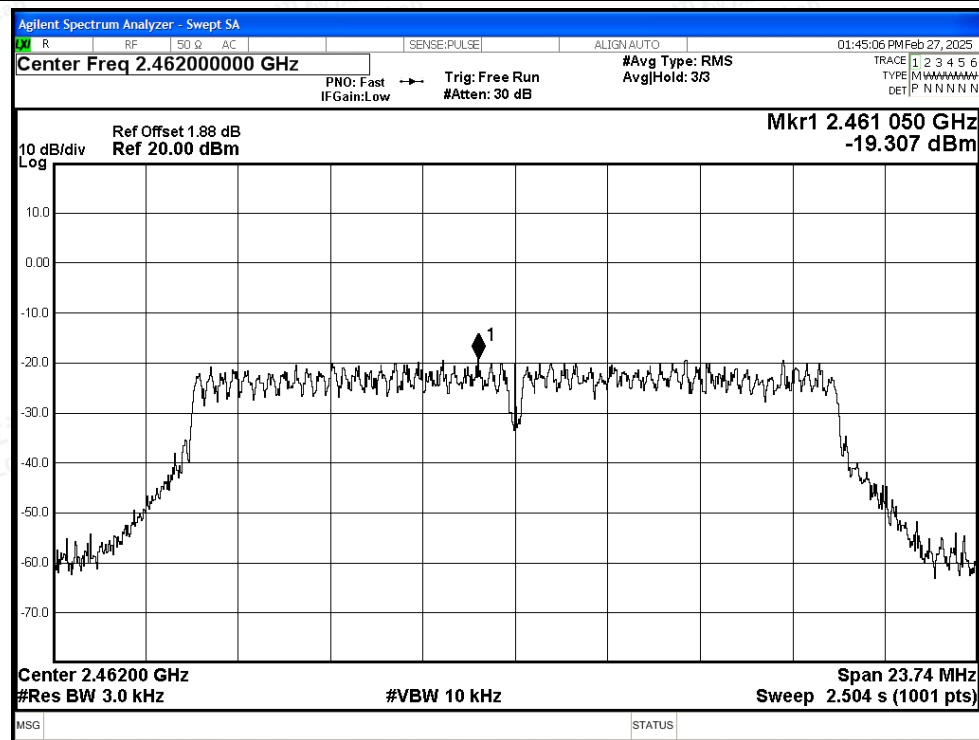
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

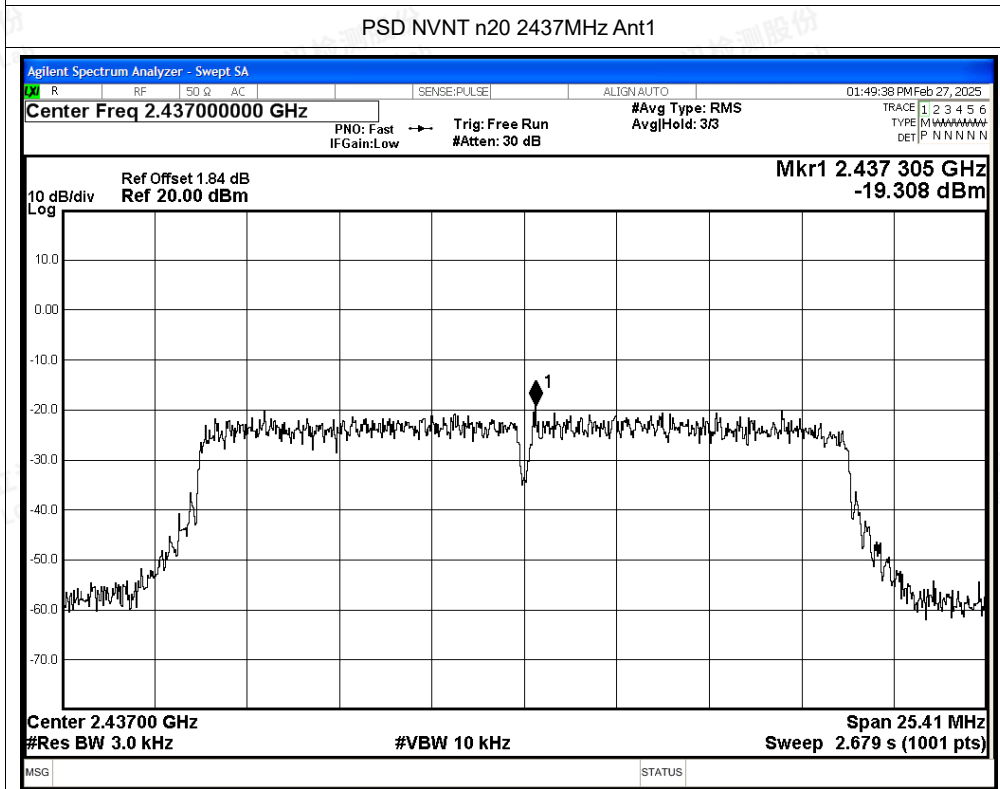
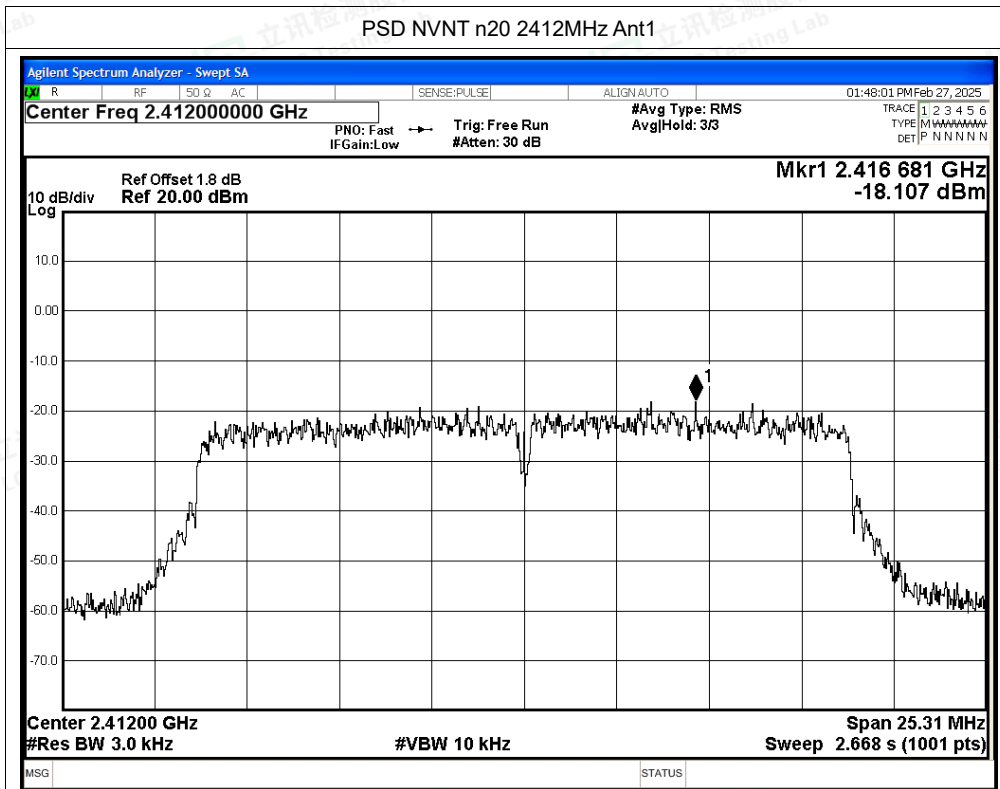


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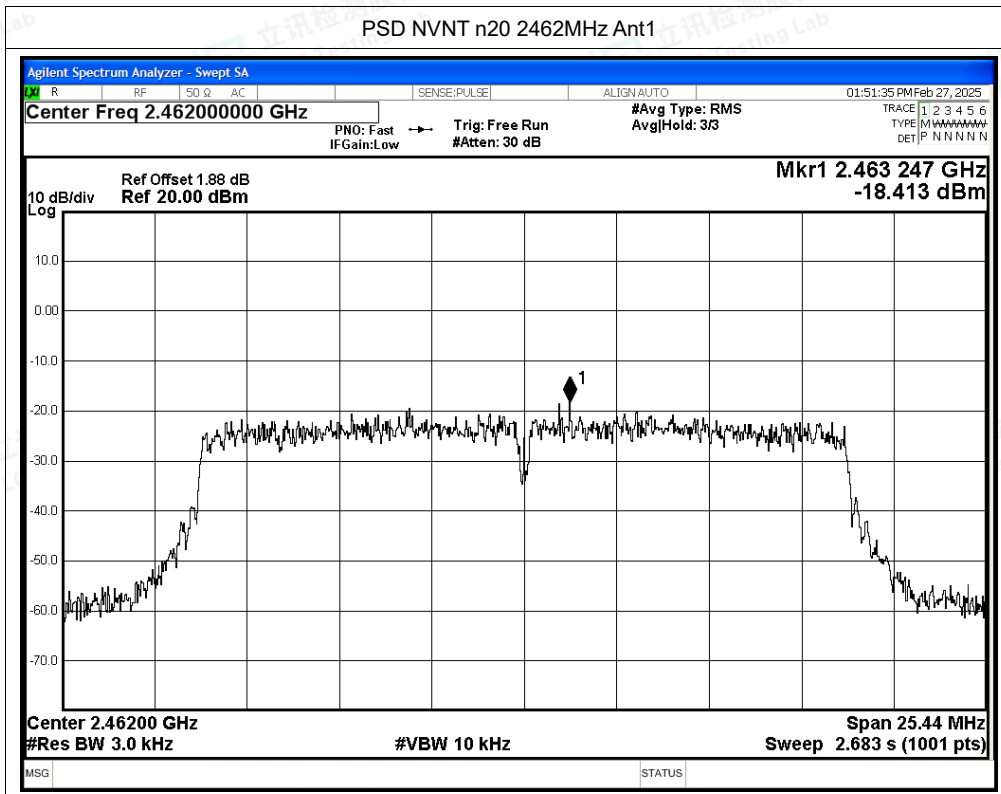


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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.37	-20	Pass
NVNT	b	2462	Ant1	-58.19	-20	Pass
NVNT	g	2412	Ant1	-31.06	-20	Pass
NVNT	g	2462	Ant1	-43.29	-20	Pass
NVNT	n20	2412	Ant1	-30.06	-20	Pass
NVNT	n20	2462	Ant1	-40.13	-20	Pass

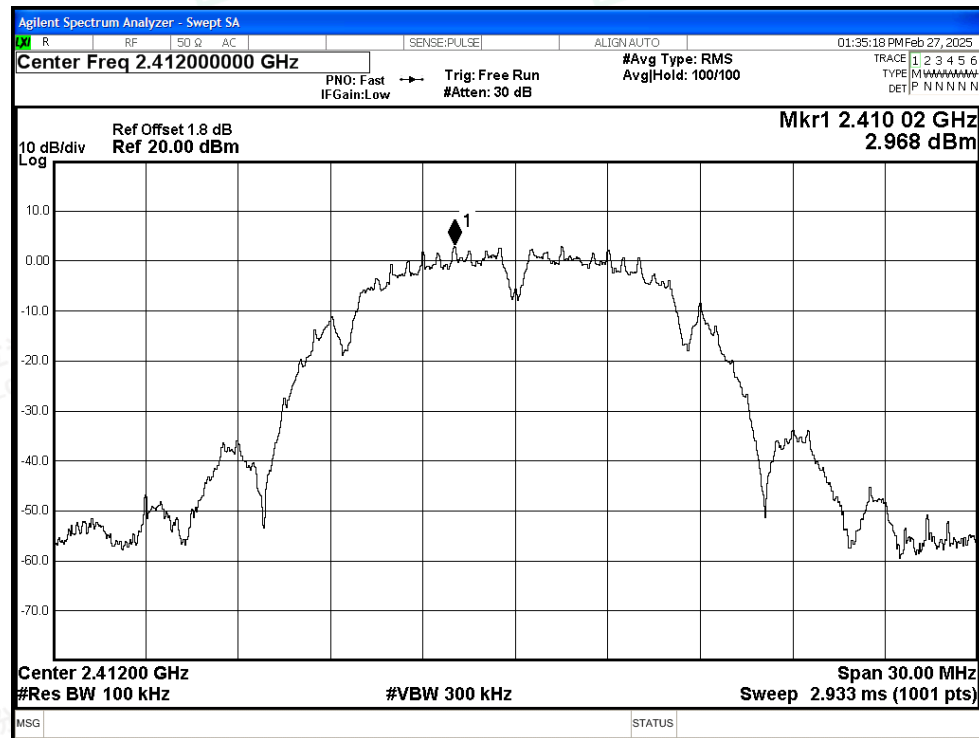


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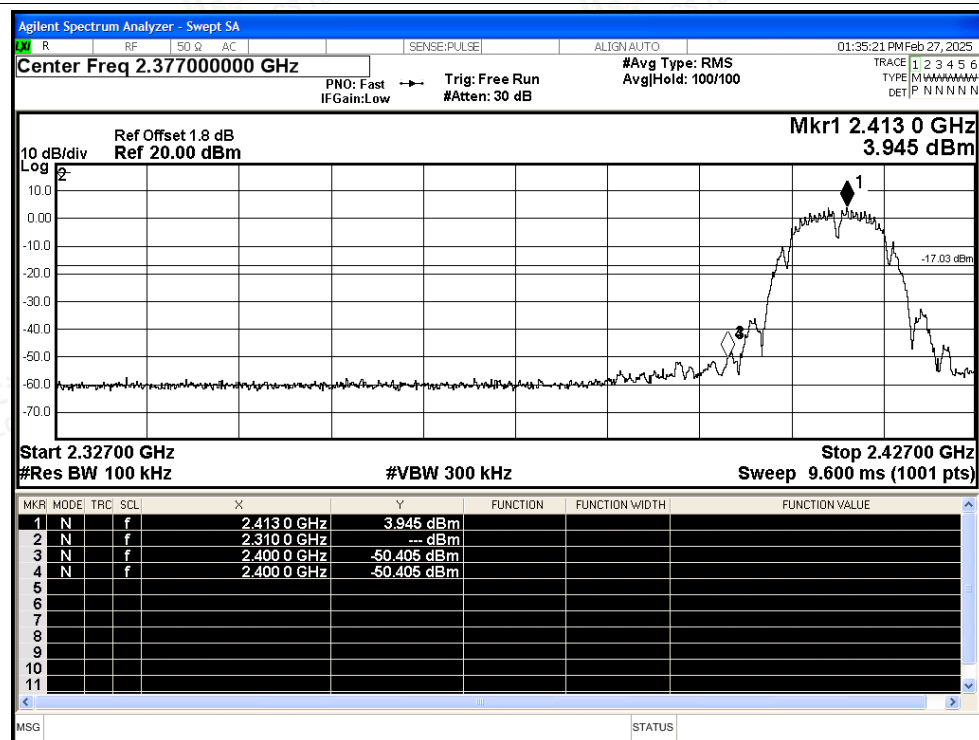


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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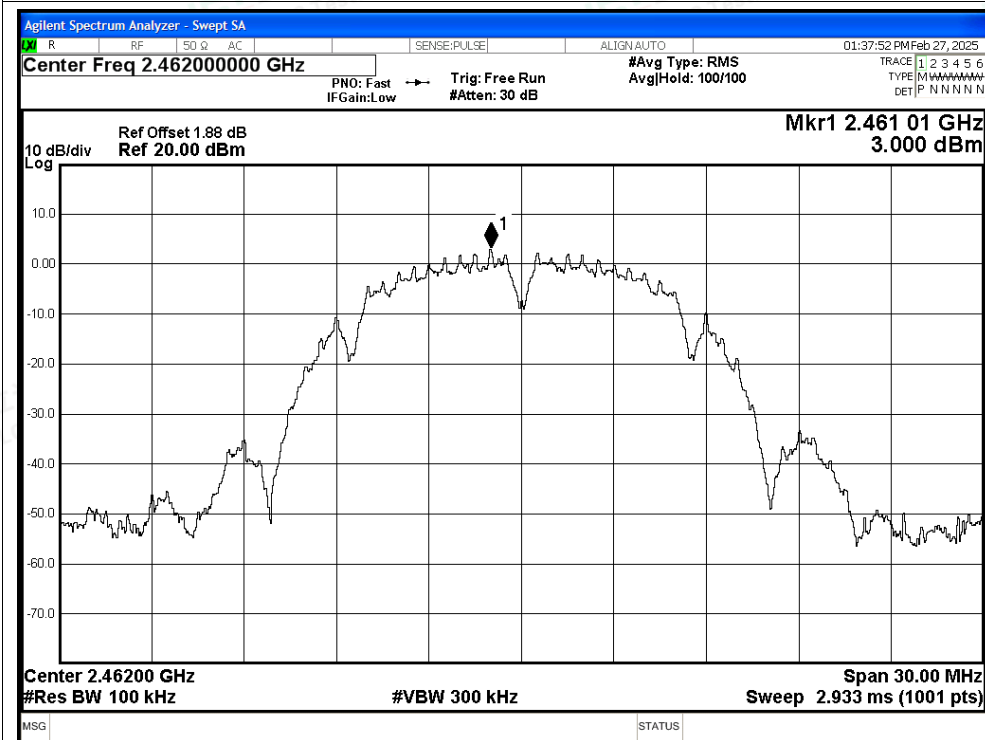
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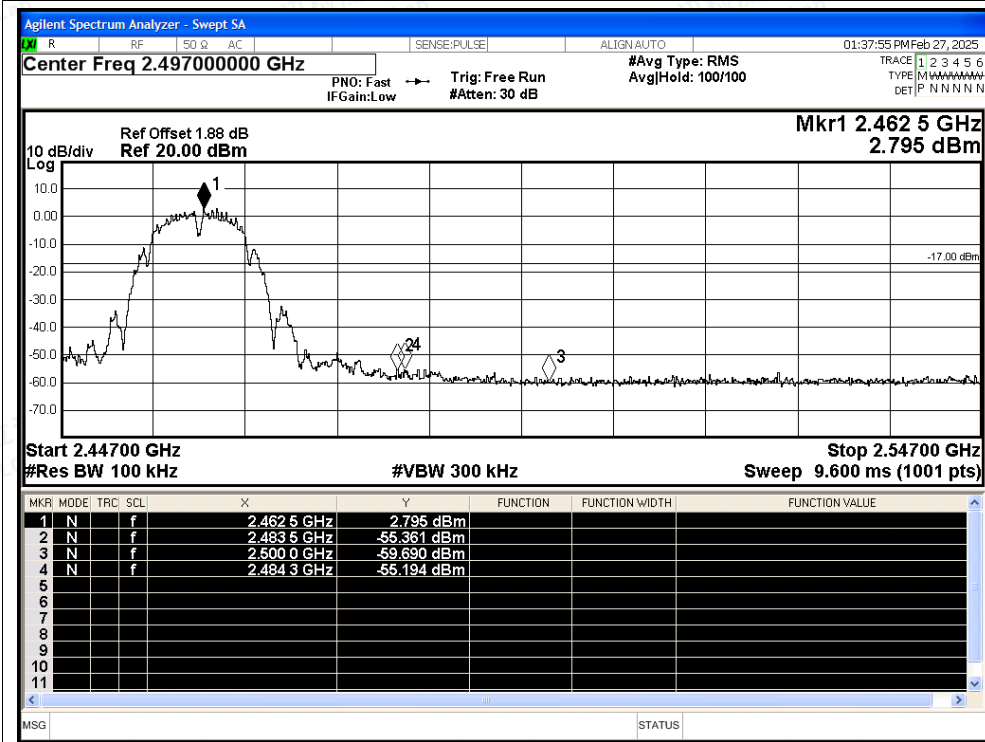
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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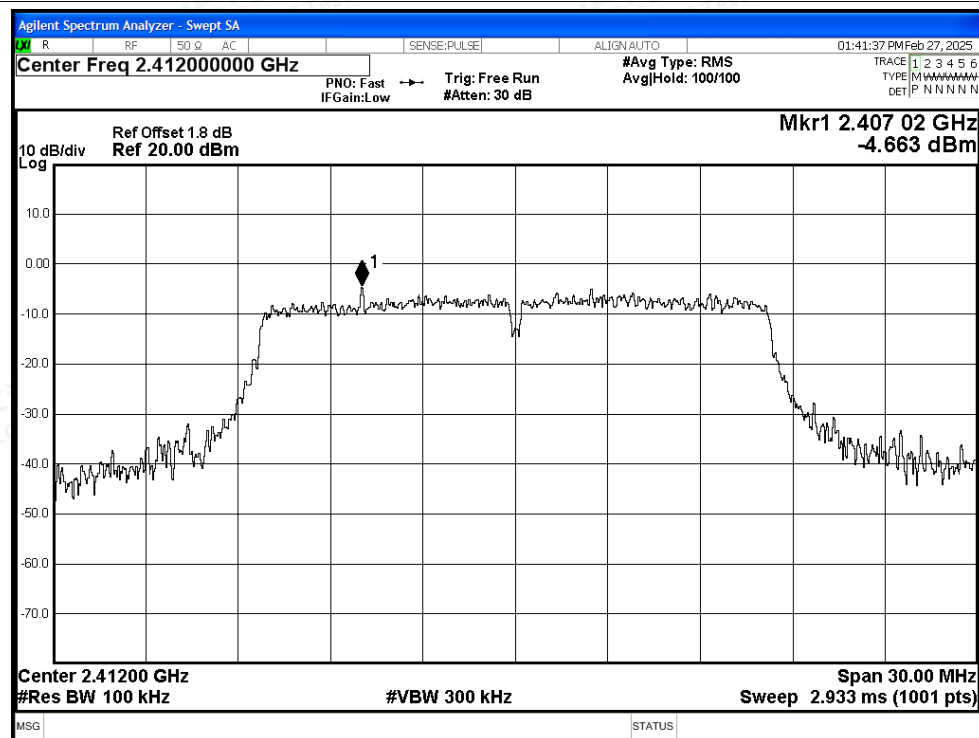
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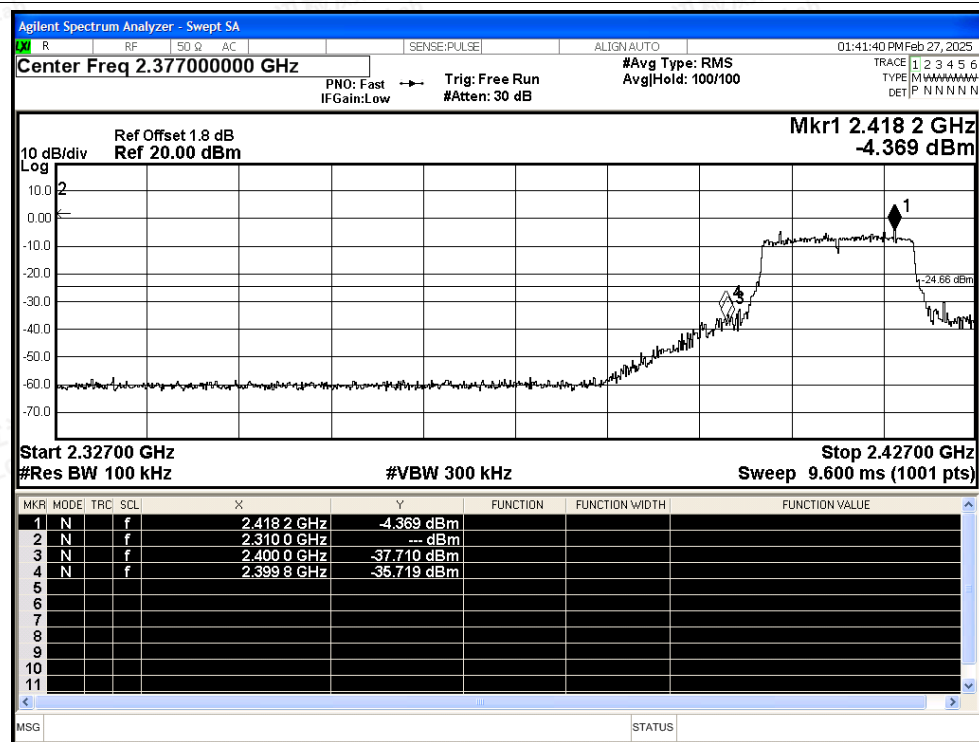
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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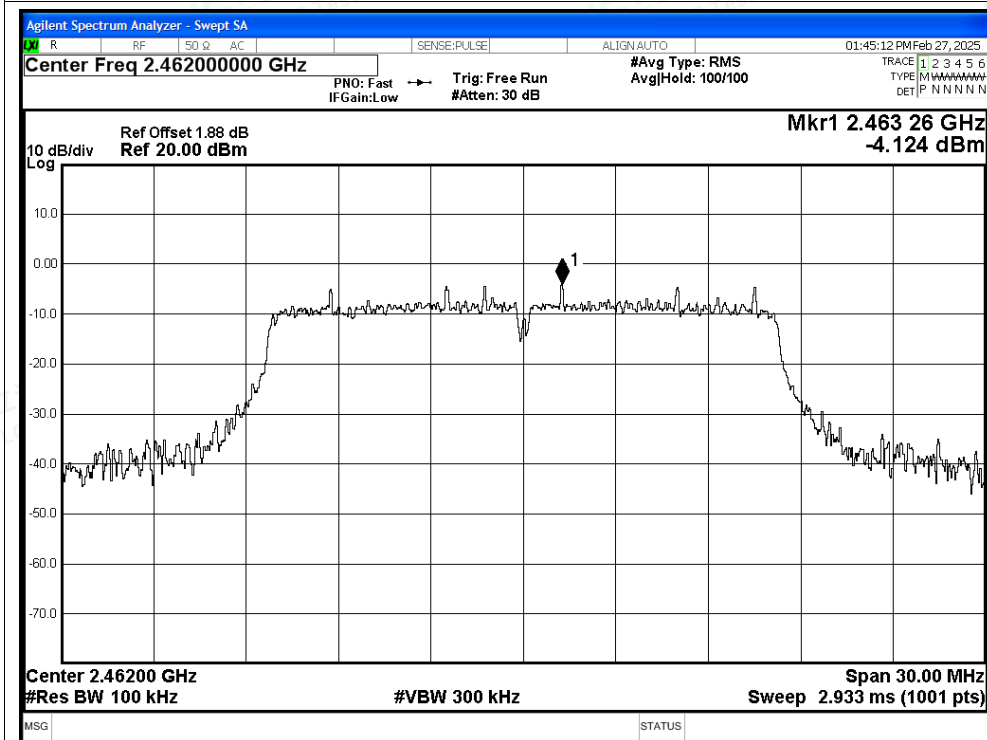
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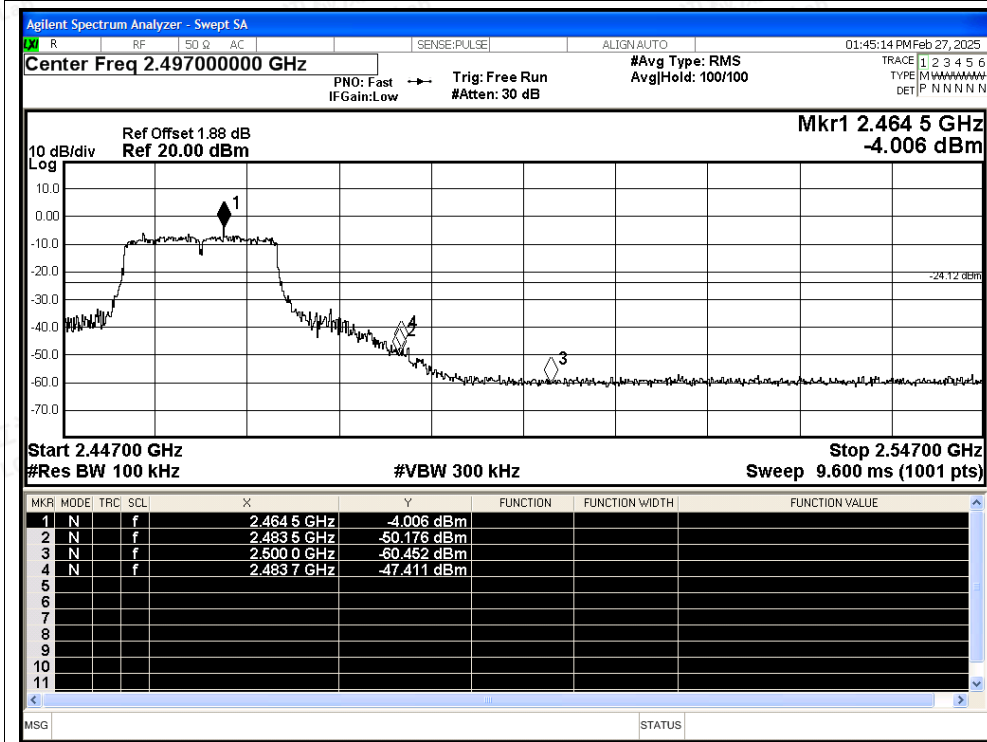
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Band Edge NVNT g 2462MHz Ant1 Emission



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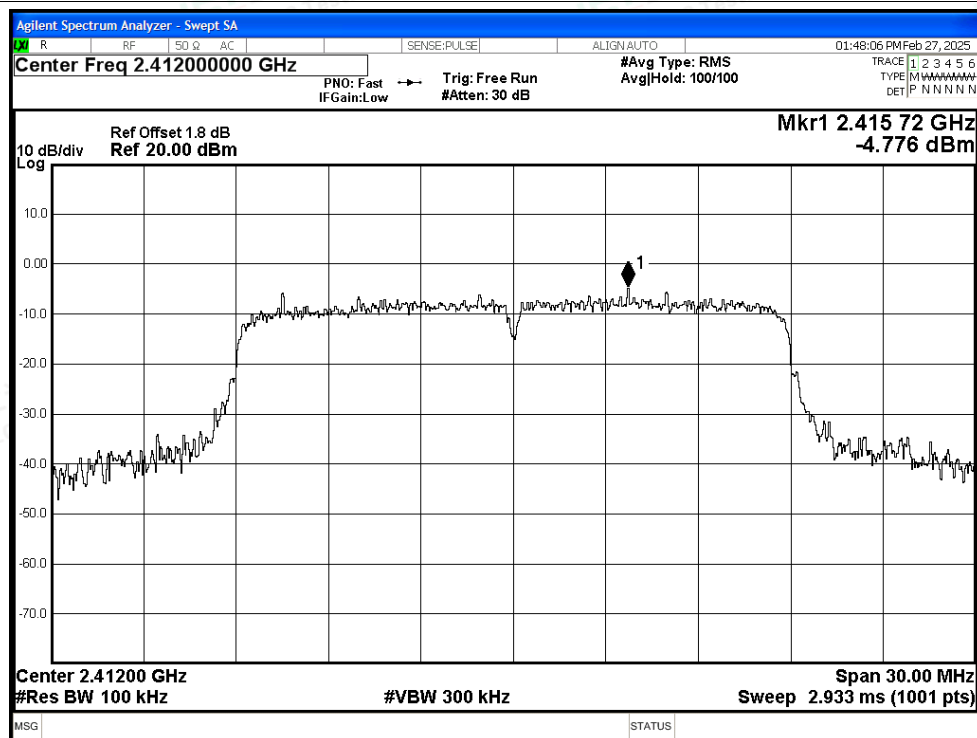
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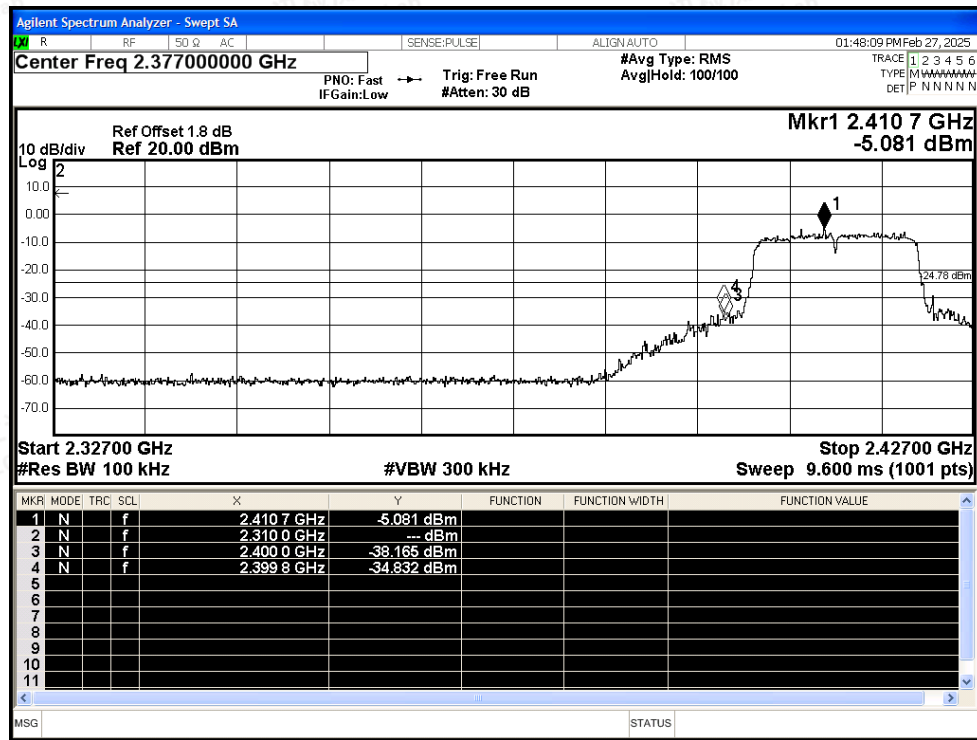
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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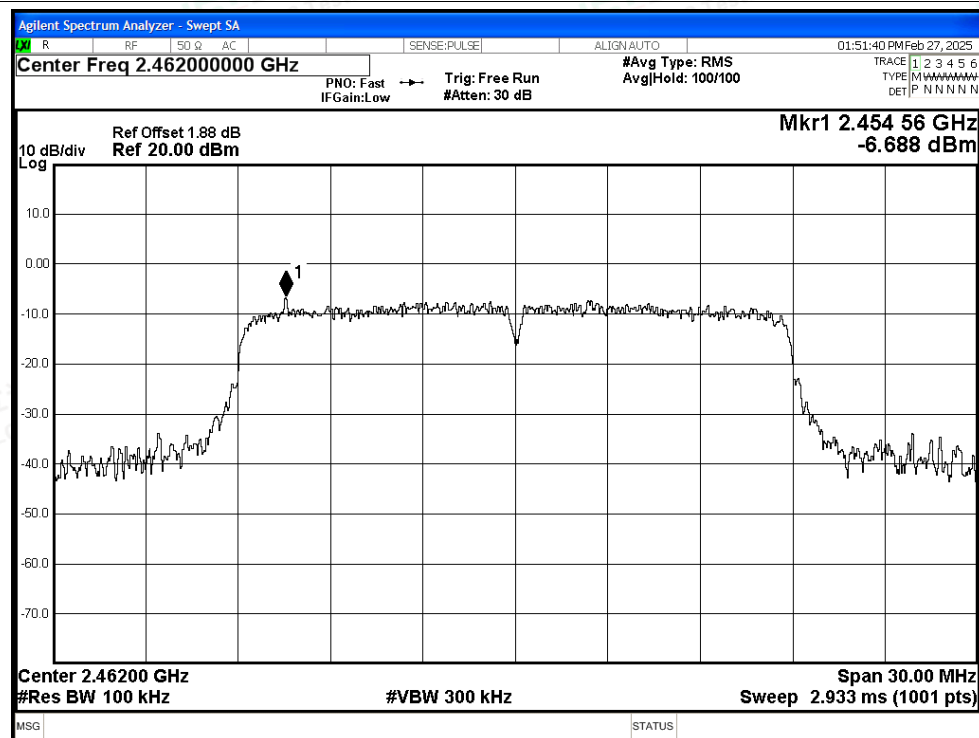
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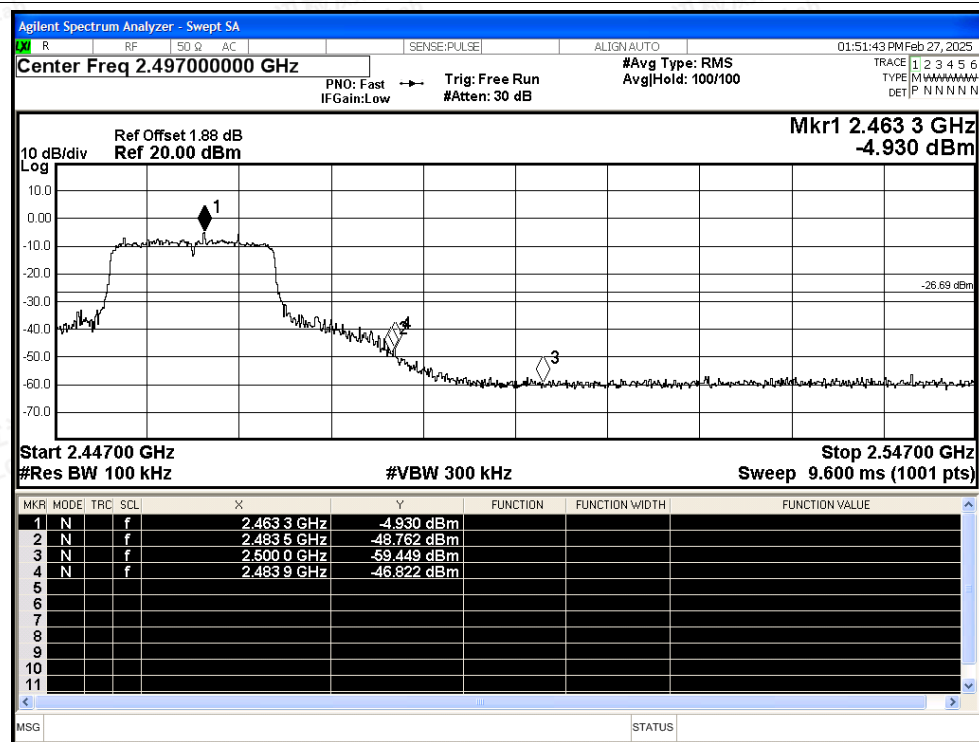
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.89	-20	Pass
NVNT	b	2437	Ant1	-48.23	-20	Pass
NVNT	b	2462	Ant1	-49.41	-20	Pass
NVNT	g	2412	Ant1	-43.17	-20	Pass
NVNT	g	2437	Ant1	-41.97	-20	Pass
NVNT	g	2462	Ant1	-42.04	-20	Pass
NVNT	n20	2412	Ant1	-42.68	-20	Pass
NVNT	n20	2437	Ant1	-42.06	-20	Pass
NVNT	n20	2462	Ant1	-41.05	-20	Pass

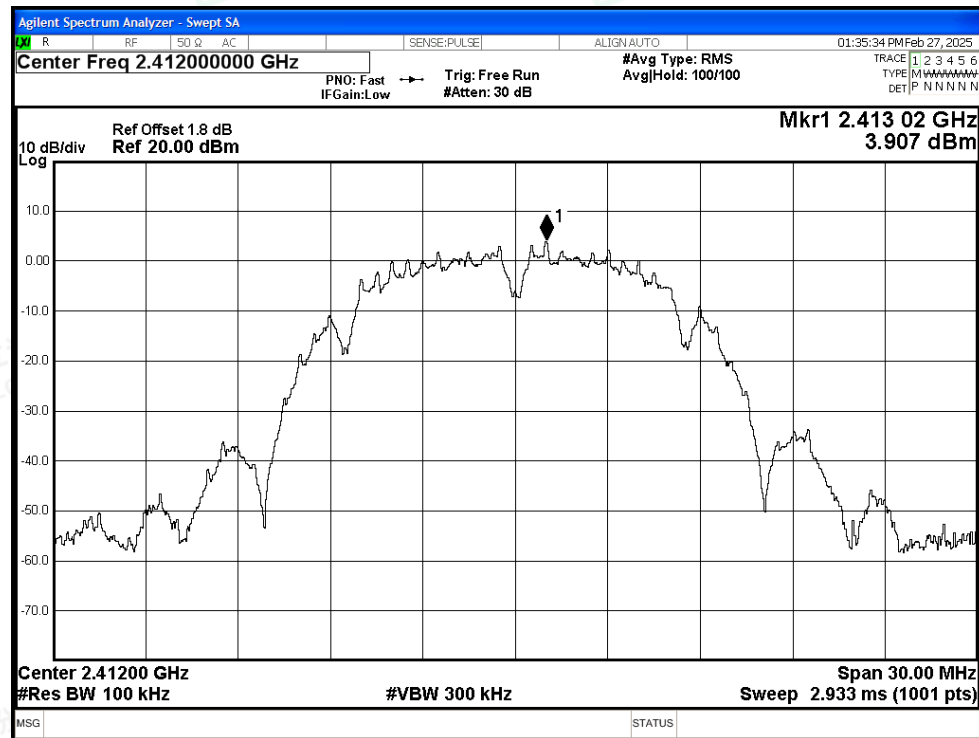


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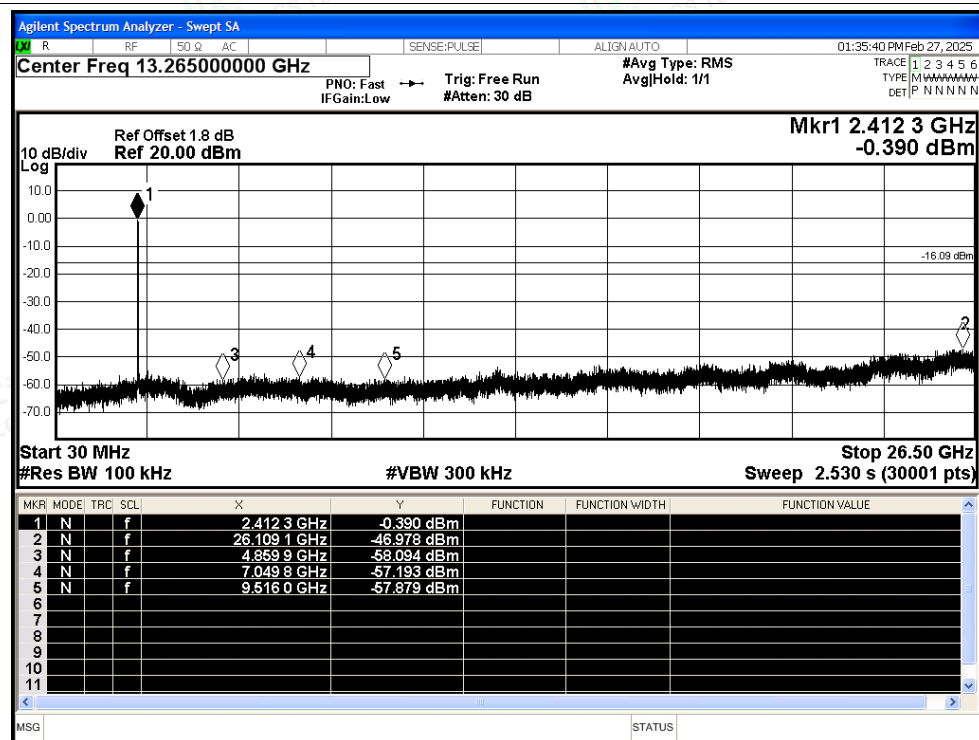


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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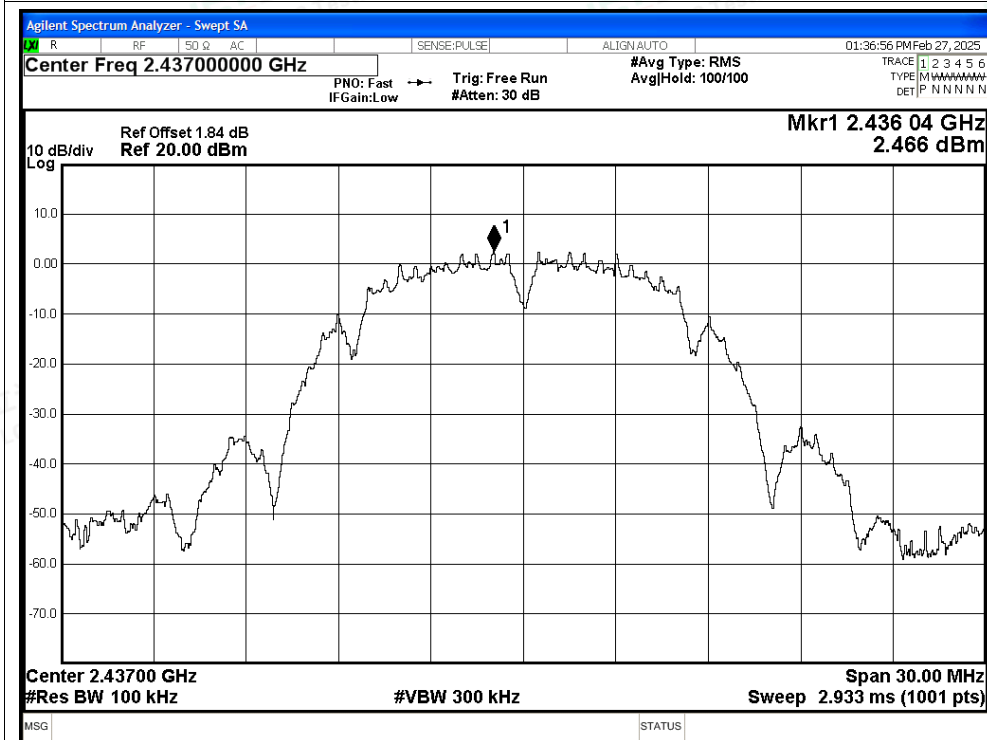
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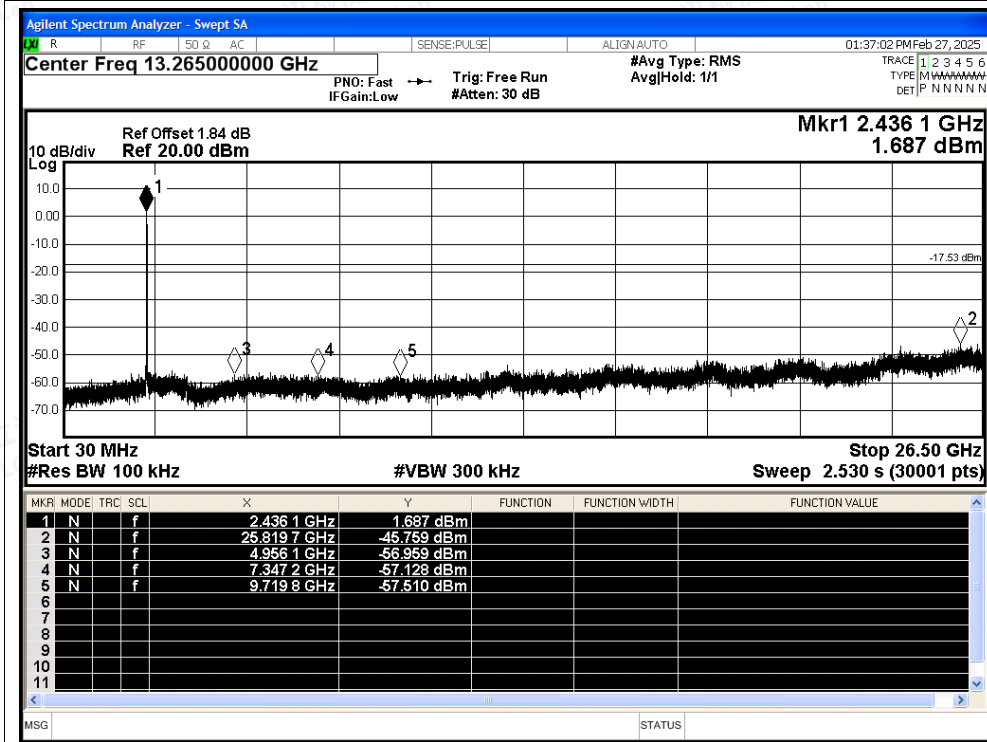
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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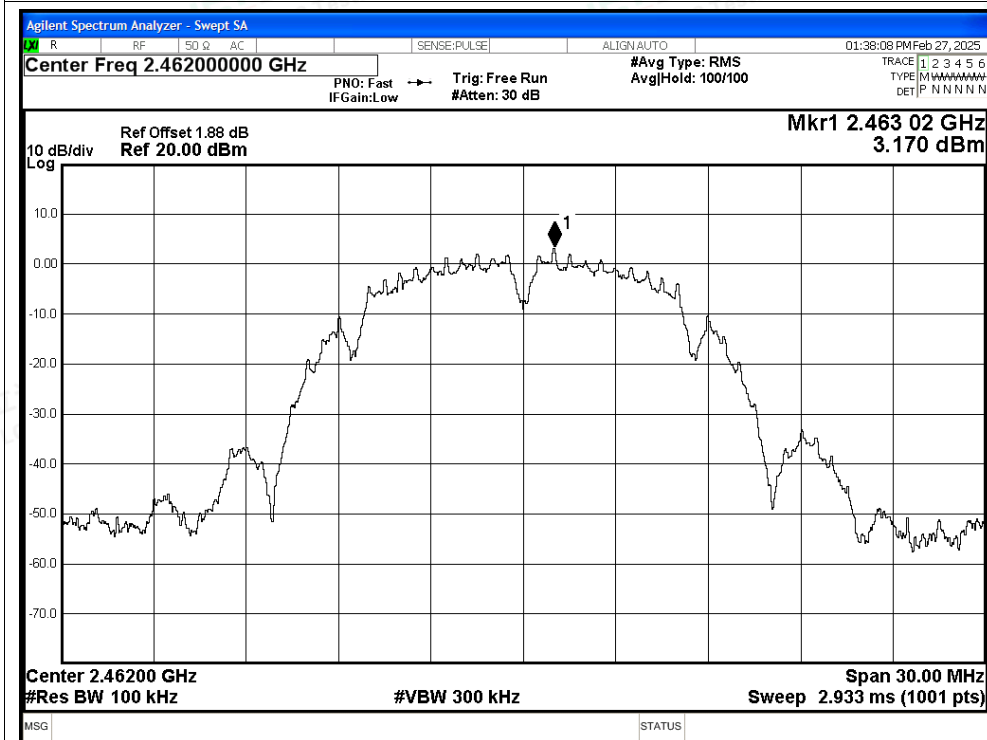
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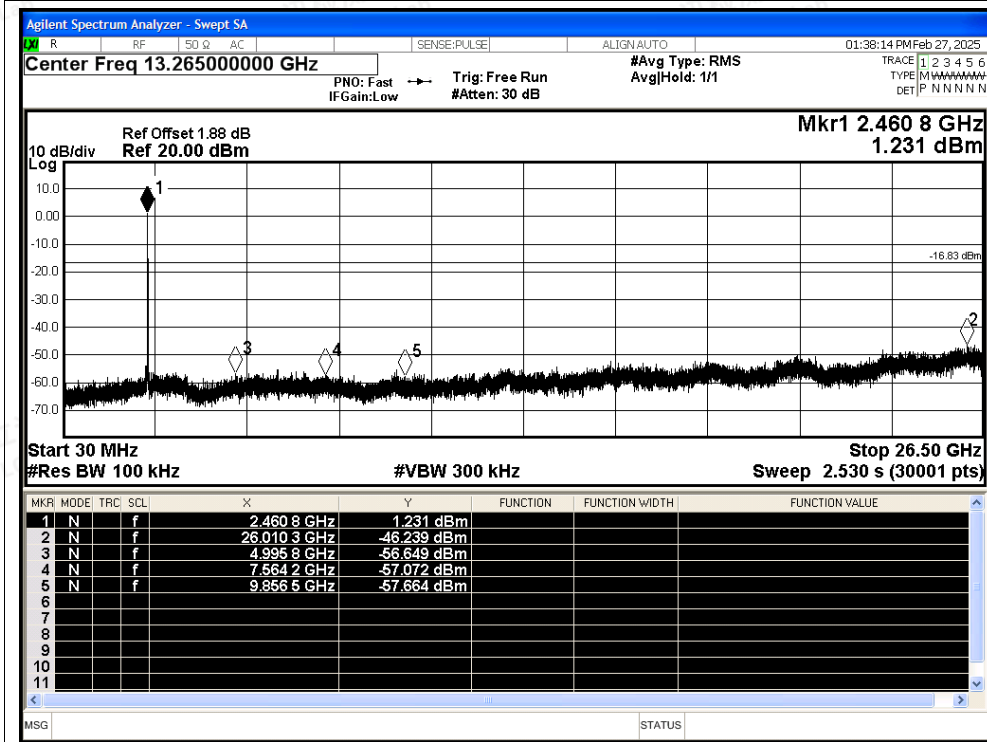
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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



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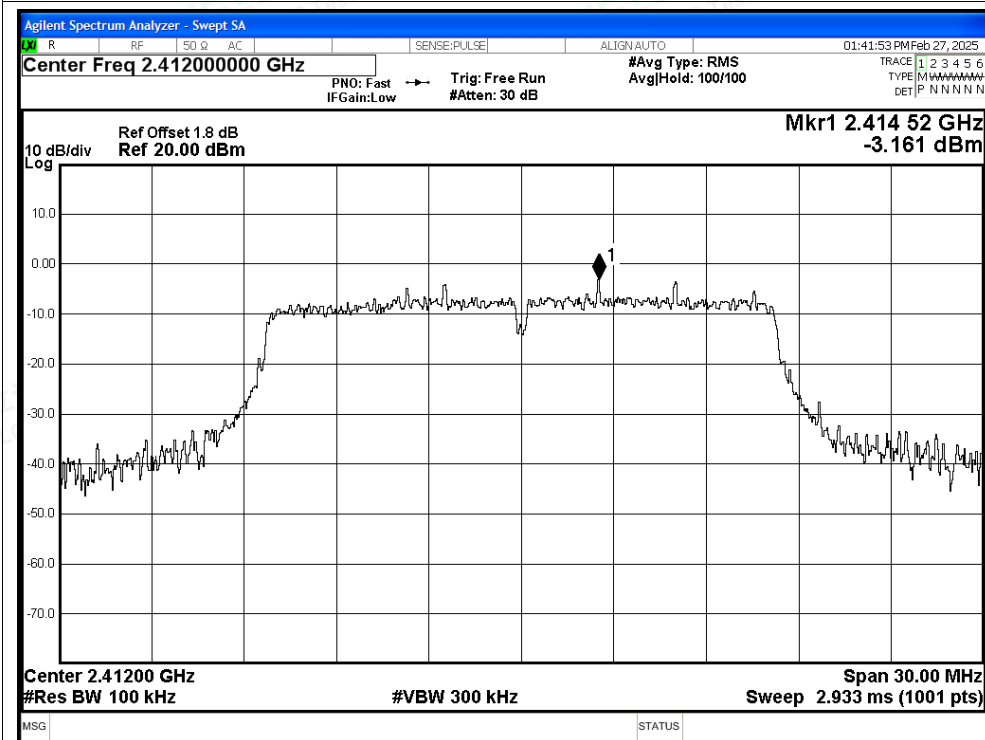
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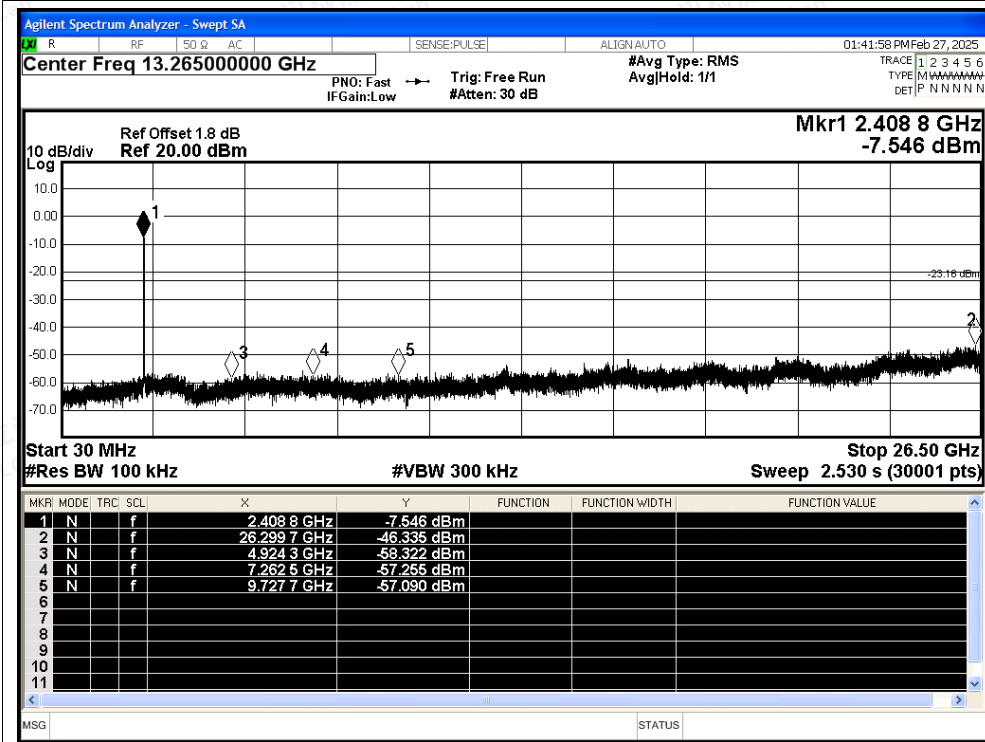
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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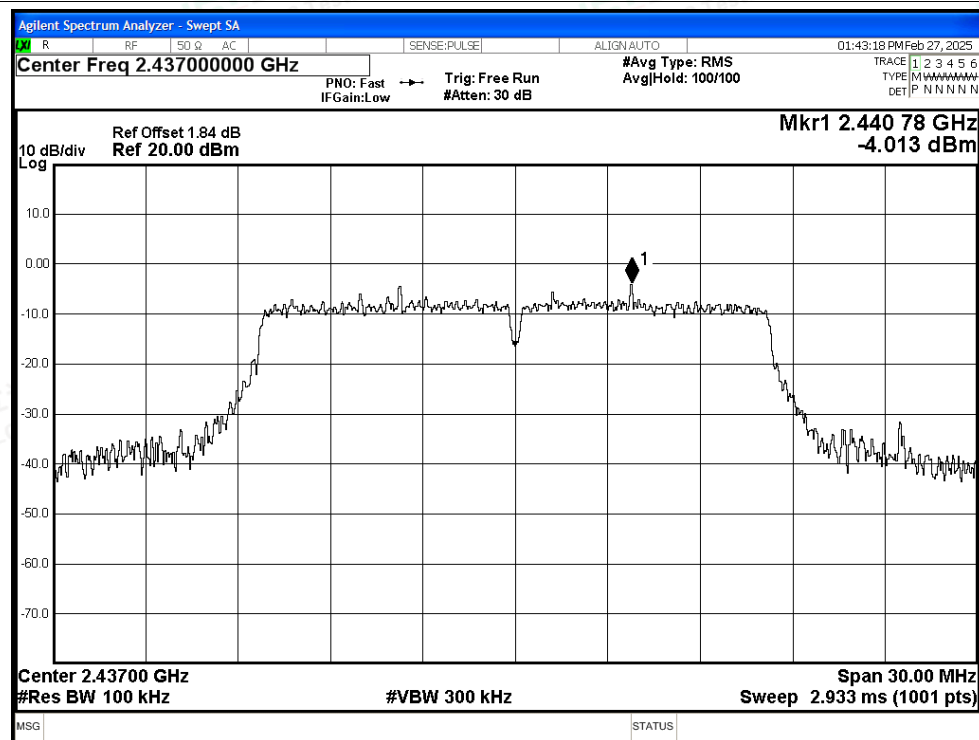
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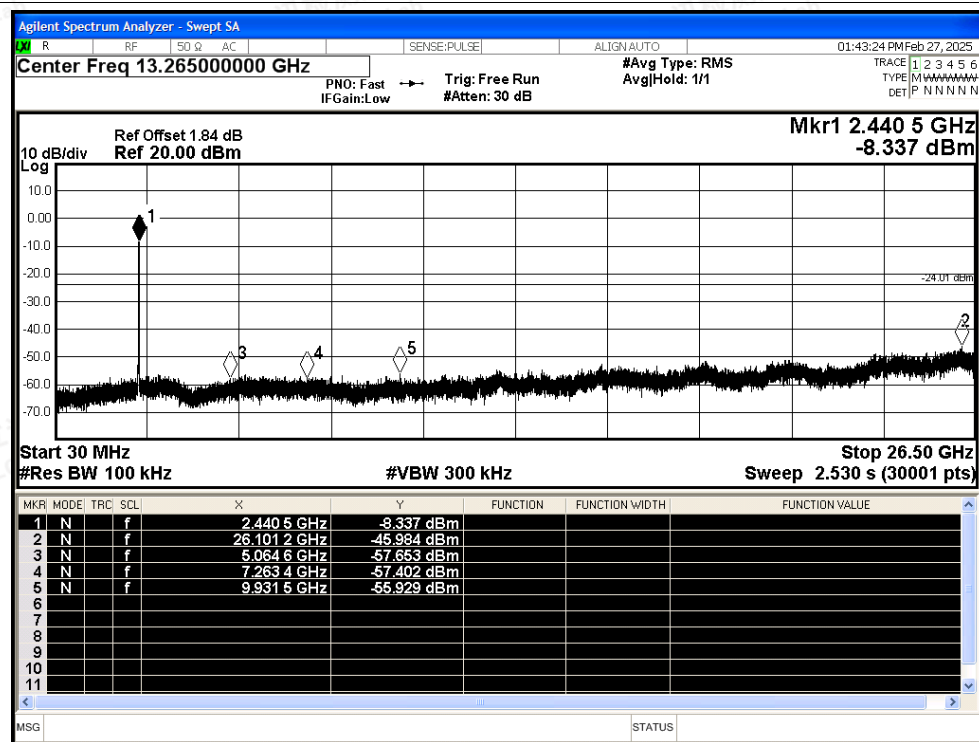
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



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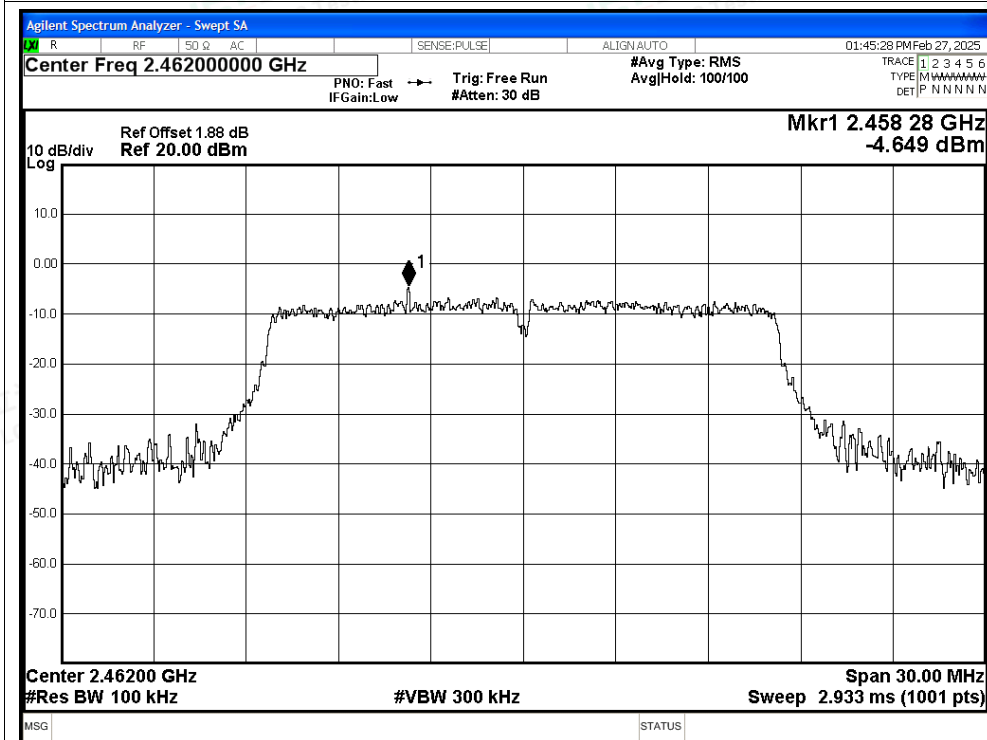
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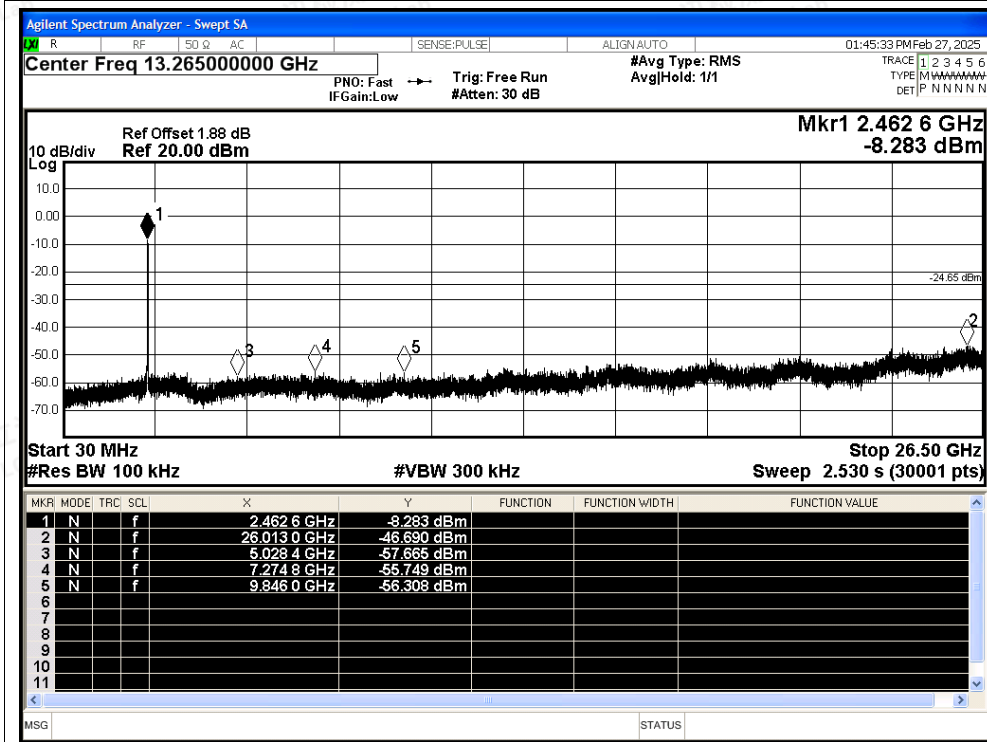
Scan code to check authenticity



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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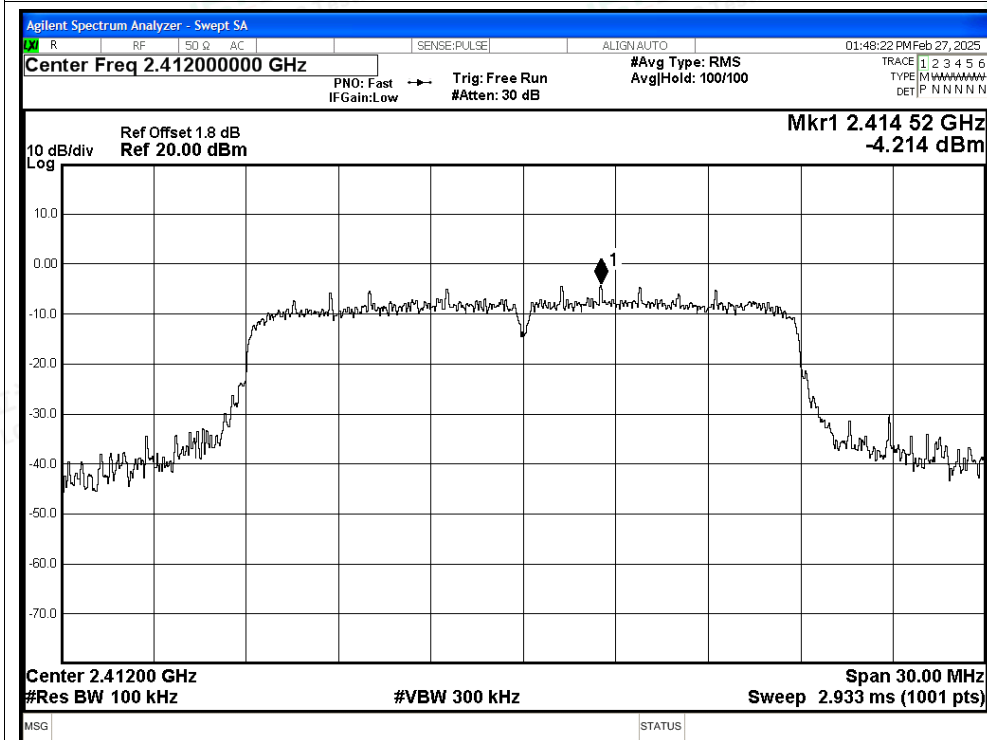
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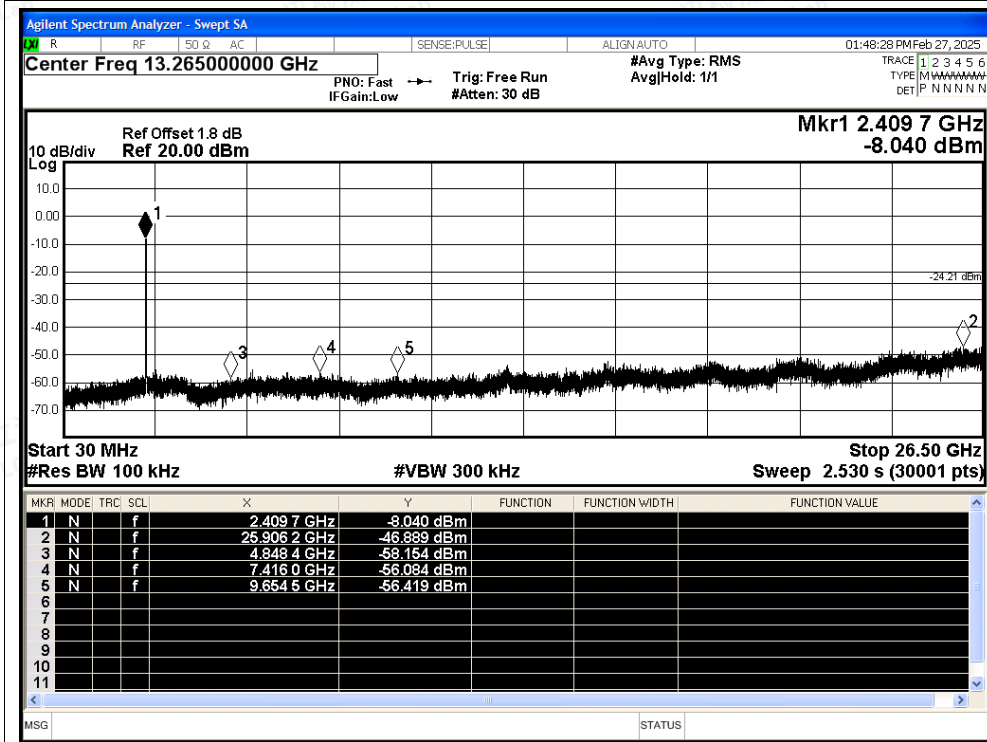
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

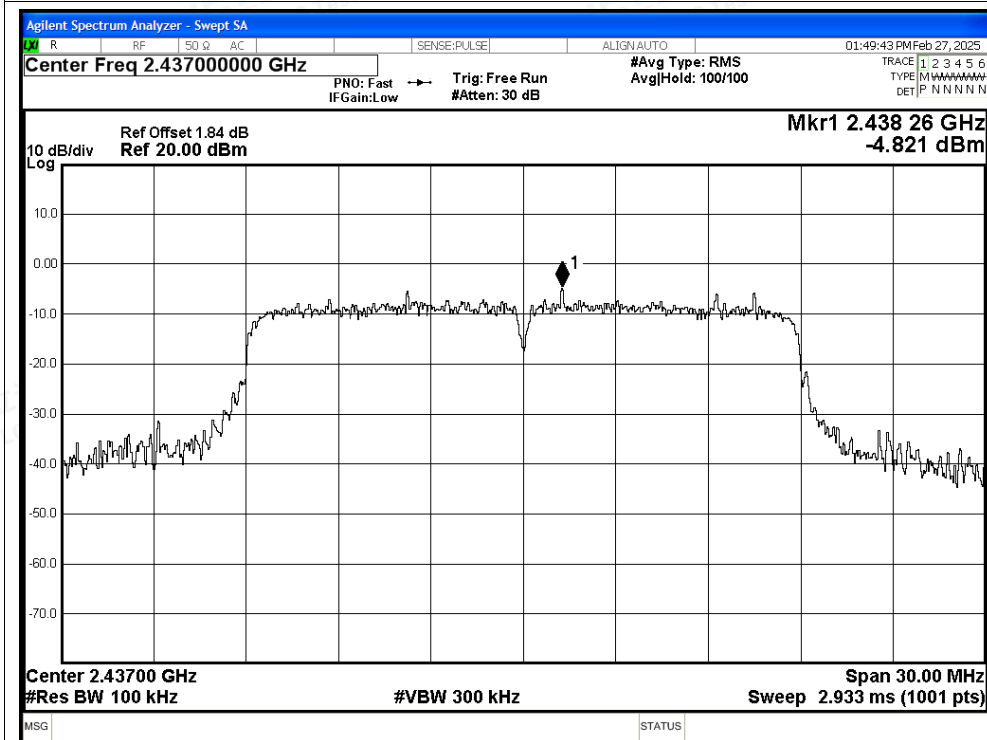
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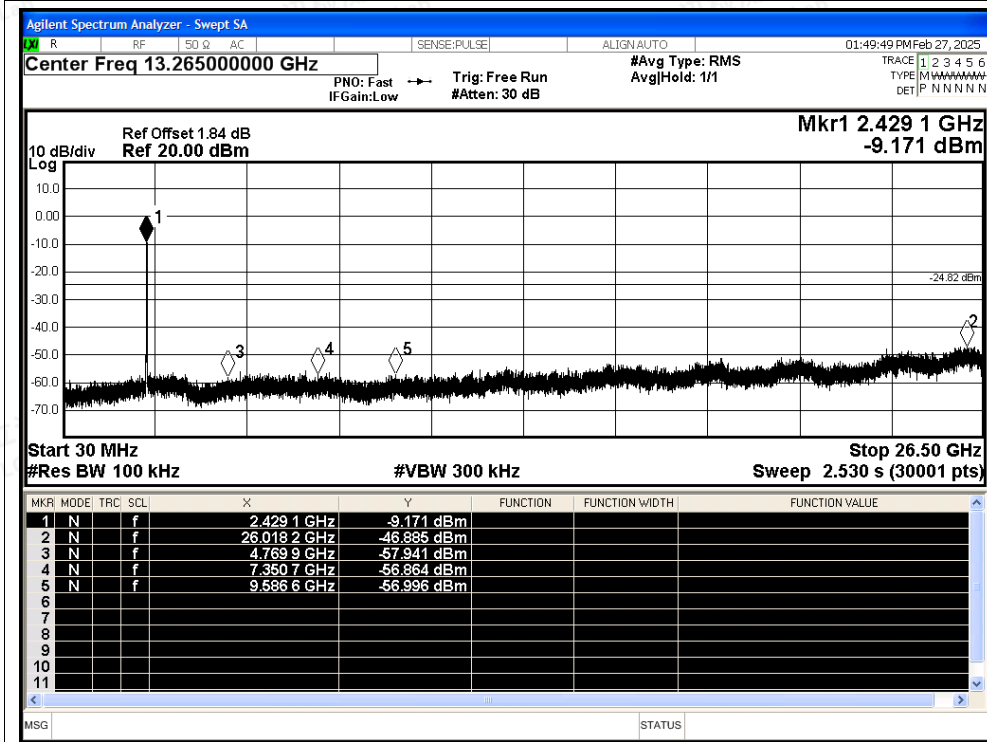
Scan code to check authenticity



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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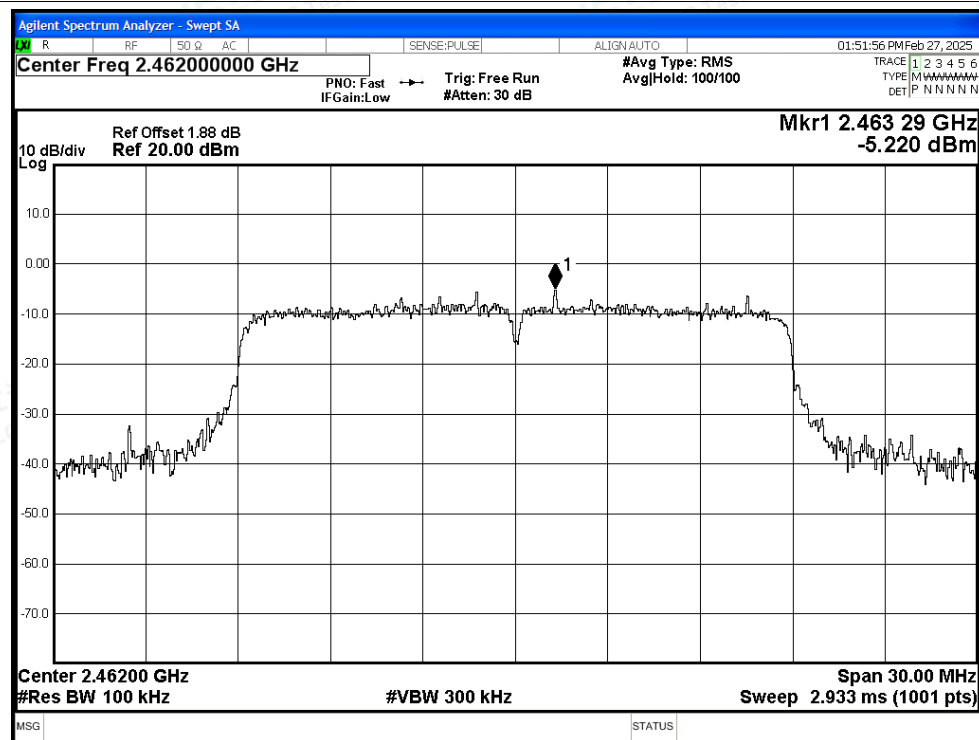
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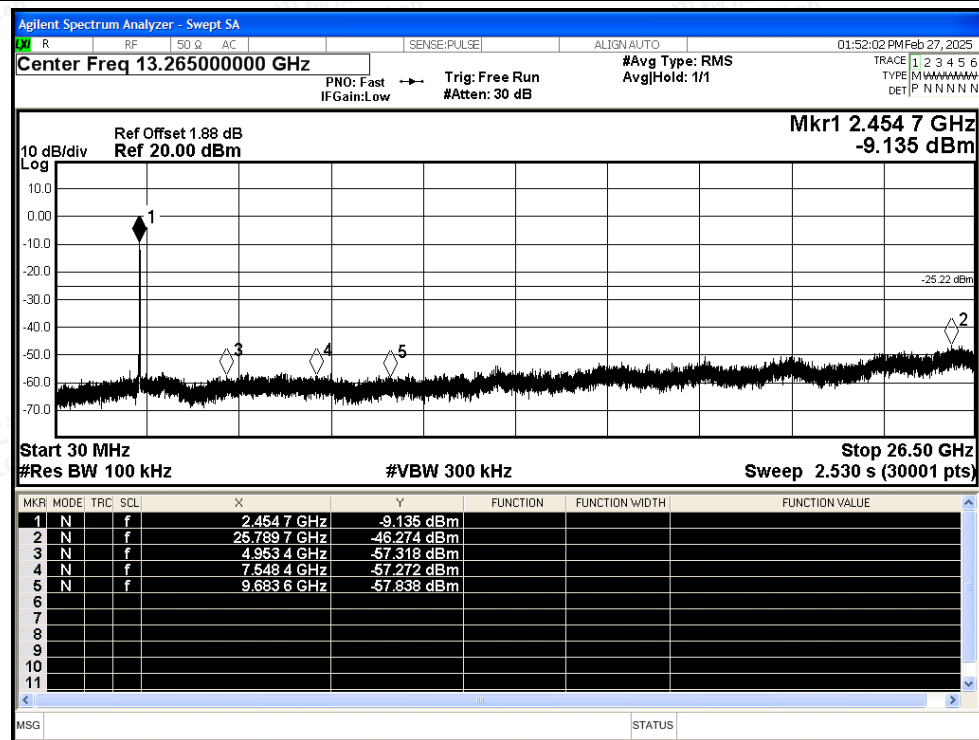
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 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	Ant1	99.13	0	0.15
NVNT	b	2437	Ant1	99.16	0	0.15
NVNT	b	2462	Ant1	99.16	0	0.15
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	97.33	0.12	0.44

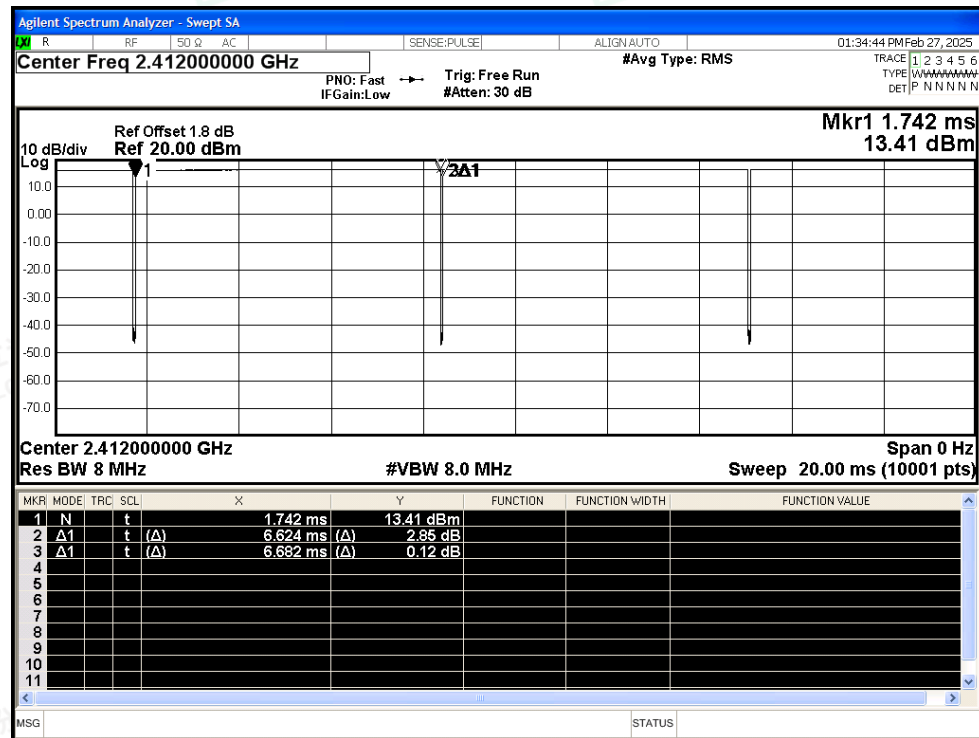


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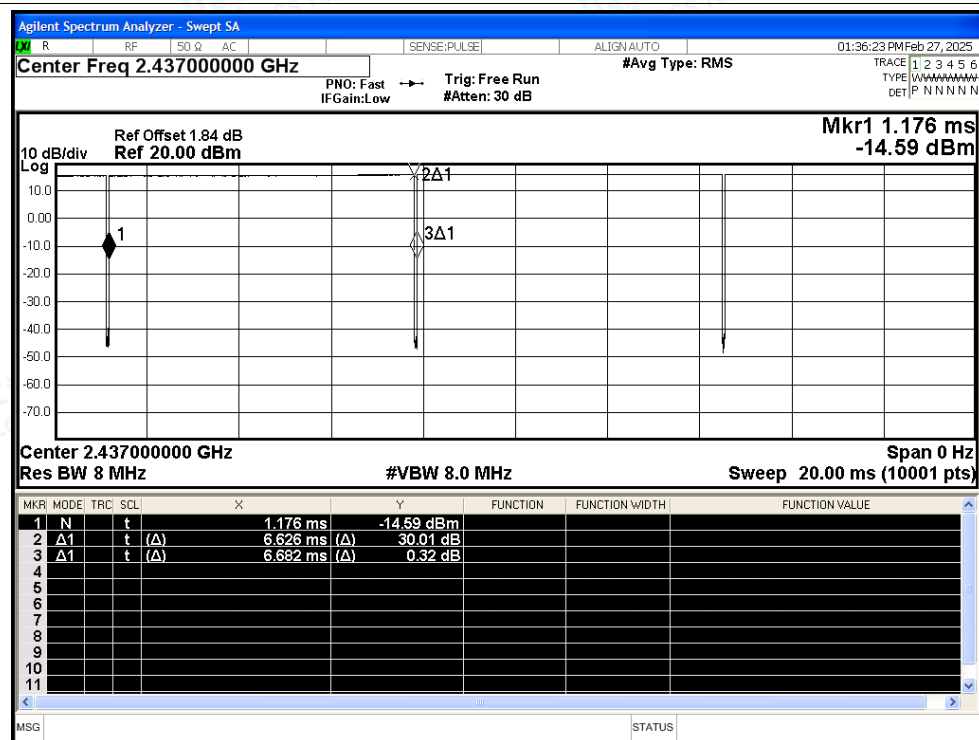


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

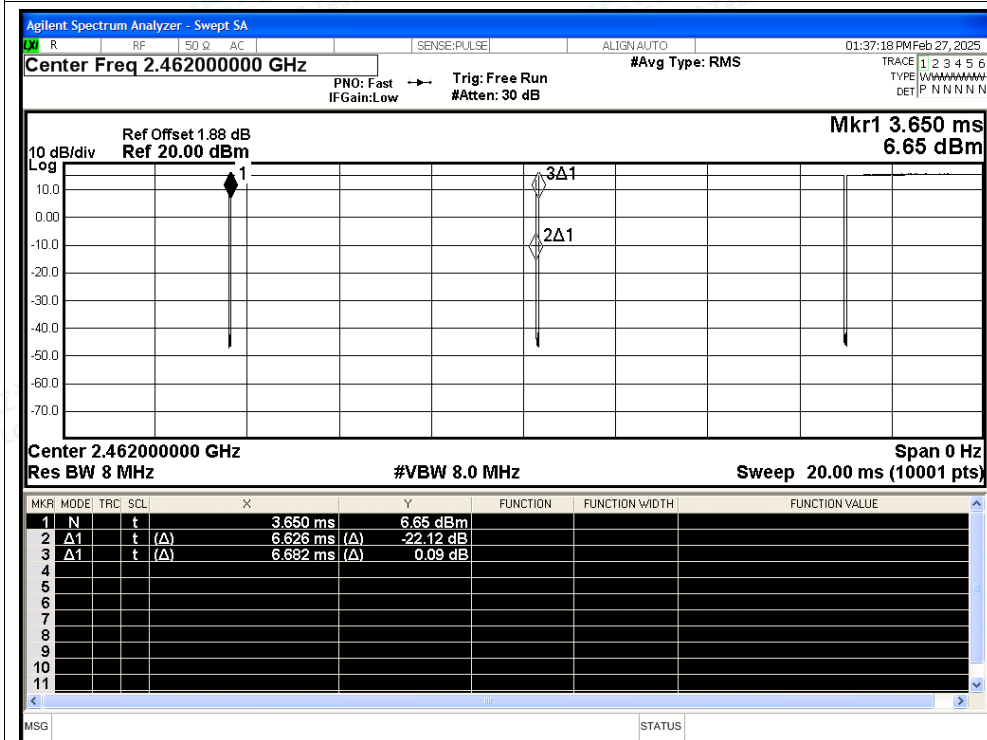
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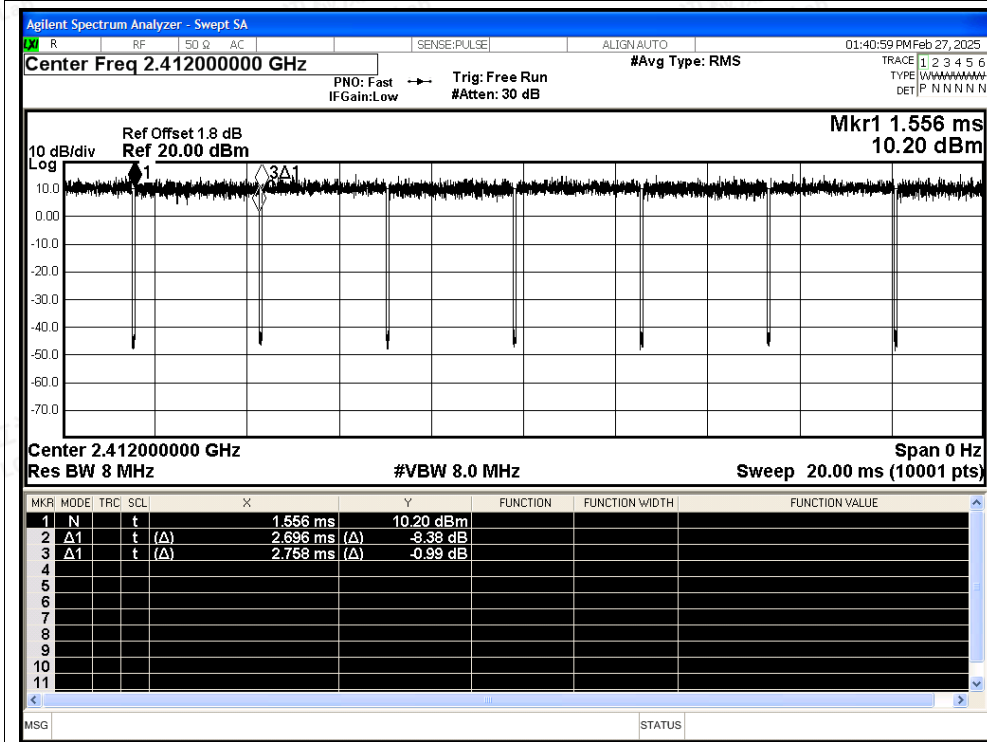
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Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



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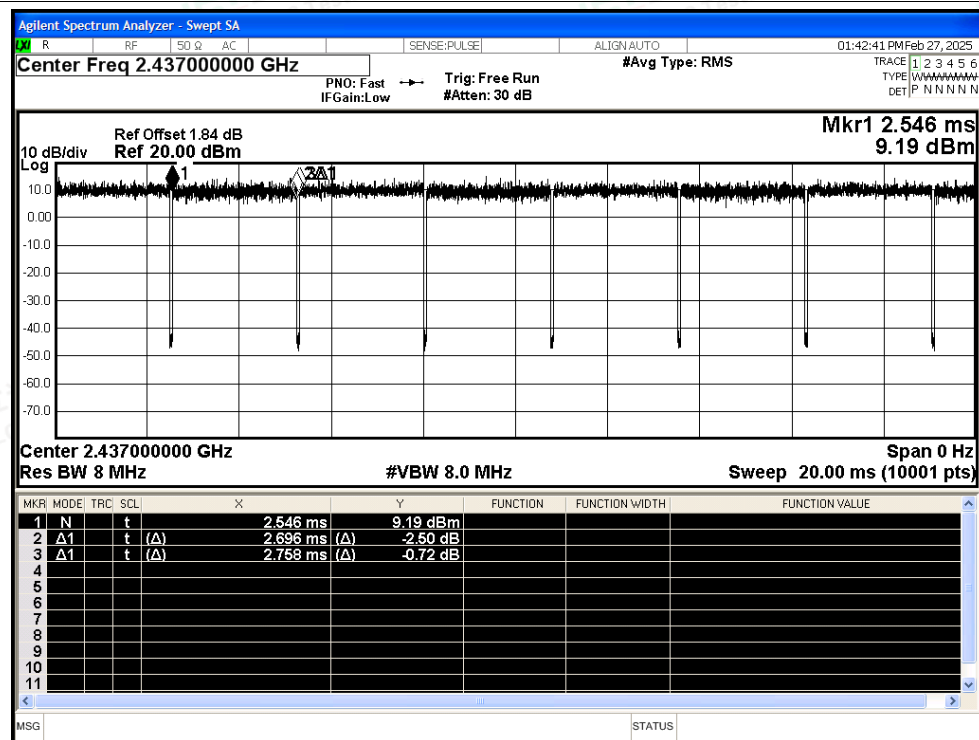
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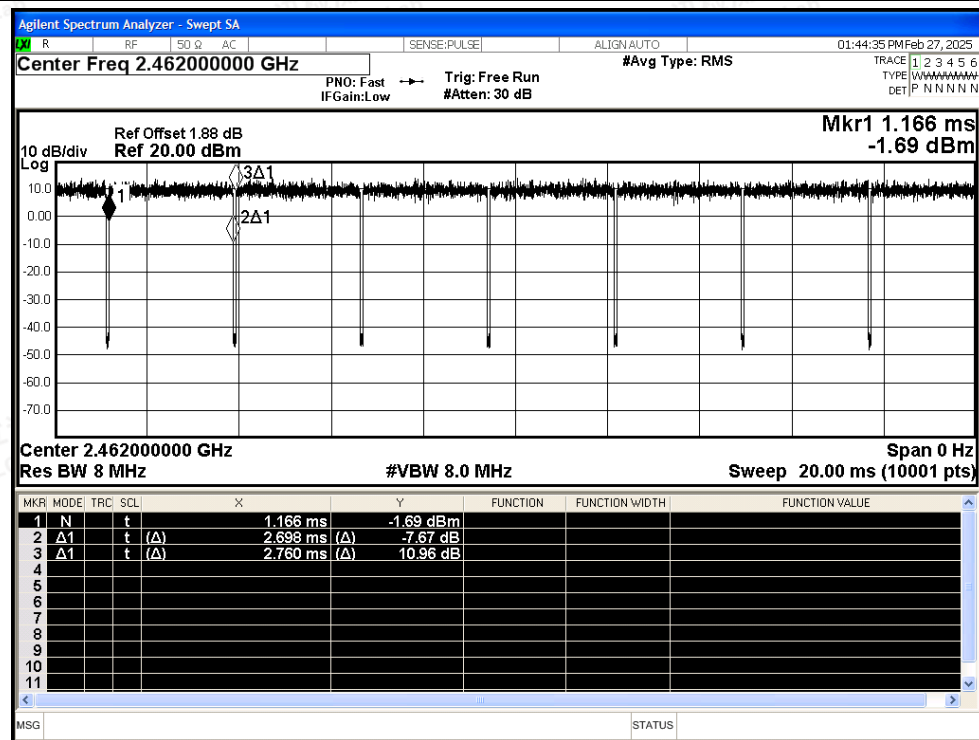
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

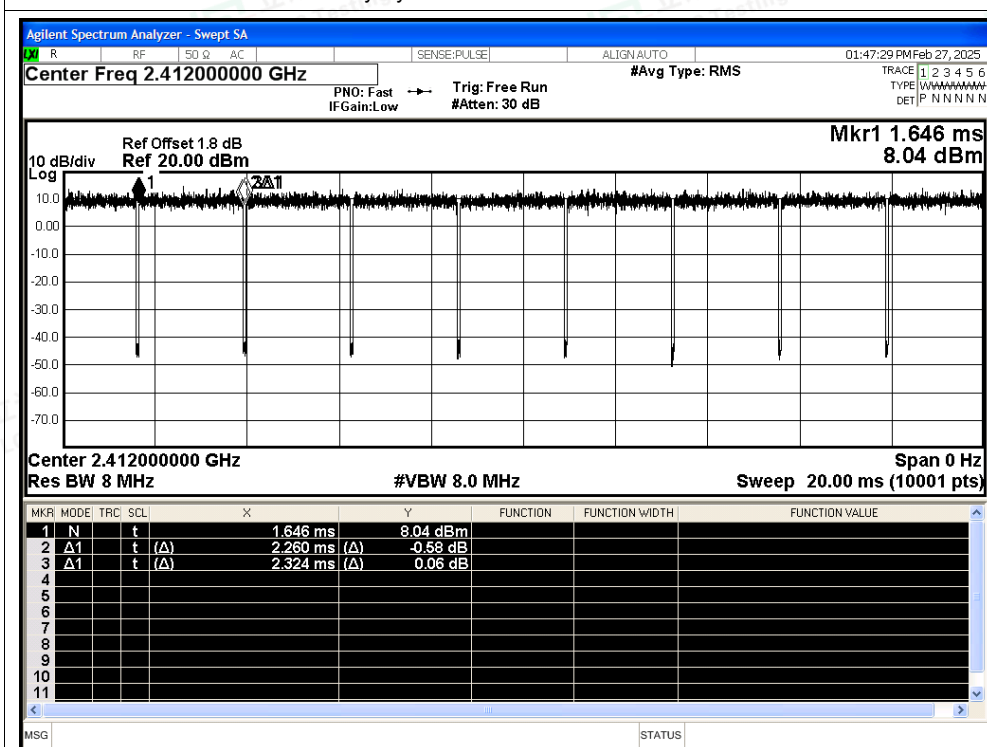
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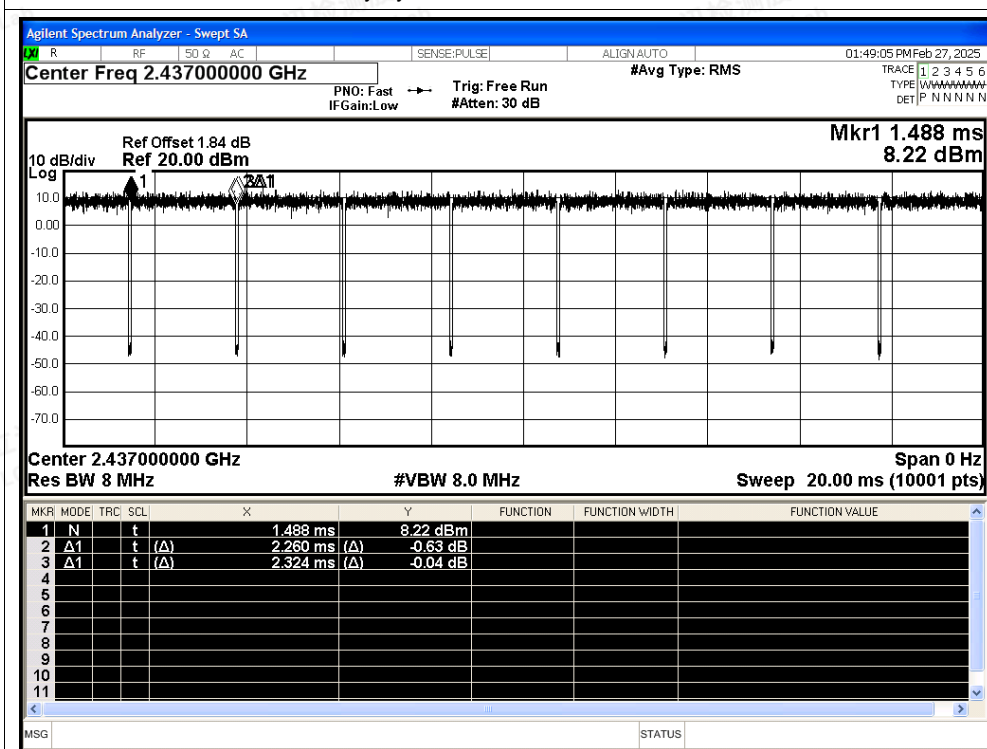
Scan code to check authenticity



Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

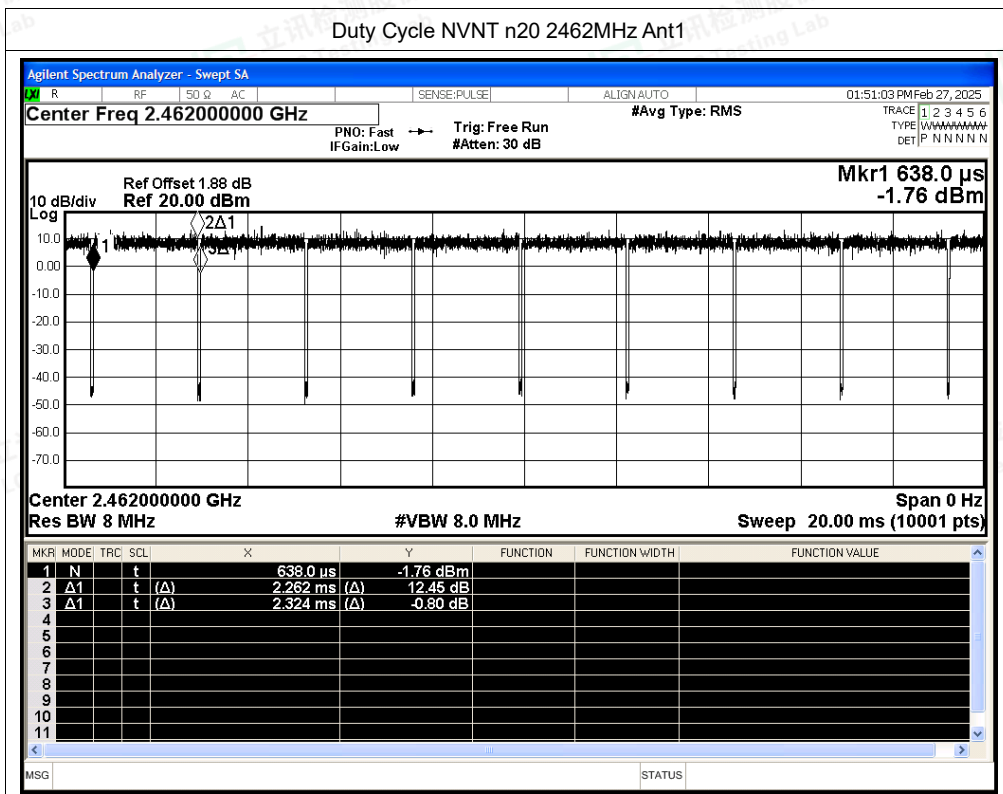


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C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-51	2	-	46.26	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.88	2	0	38.38	Average	54	Pass
NVNT	b	2412	Ant1	2389.443	-44.41	2	-	52.85	Peak	74	Pass
NVNT	b	2412	Ant1	2388.156	-55.45	2	0	41.81	Average	54	Pass
NVNT	b	2412	Ant1	2390	-45.79	2	-	51.47	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.64	2	0	40.62	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.48	2	-	48.78	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.45	2	0	41.81	Average	54	Pass
NVNT	b	2462	Ant1	2487.545	-40.59	2	-	56.67	Peak	74	Pass
NVNT	b	2462	Ant1	2488.075	-55.31	2	0	41.95	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.57	2	-	47.69	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-58.38	2	0	38.88	Average	54	Pass
NVNT	g	2412	Ant1	2310	-51.34	2	-	45.92	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-59.07	2	0.1	38.29	Average	54	Pass
NVNT	g	2412	Ant1	2388.858	-37.61	2	-	59.65	Peak	74	Pass
NVNT	g	2412	Ant1	2389.56	-53.58	2	0.1	43.78	Average	54	Pass
NVNT	g	2412	Ant1	2390	-42.68	2	-	54.58	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-54.95	2	0.1	42.41	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-35.69	2	-	61.57	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-51.83	2	0.1	45.53	Average	54	Pass
NVNT	g	2462	Ant1	2483.729	-33.13	2	-	64.13	Peak	74	Pass
NVNT	g	2462	Ant1	2484.047	-50.36	2	0.1	47	Average	54	Pass
NVNT	g	2462	Ant1	2500	-51.75	2	-	45.51	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.71	2	0.1	39.65	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.21	2	-	47.05	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-59.3	2	0.12	38.08	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-36.92	2	-	60.34	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.56	-53.97	2	0.12	43.41	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-41.22	2	-	56.04	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-53.45	2	0.12	43.93	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-34.83	2	-	62.43	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-50.09	2	0.12	47.29	Average	54	Pass
NVNT	n20	2462	Ant1	2484.524	-32.89	2	-	64.37	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.729	-49.92	2	0.12	47.46	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-49.11	2	-	48.15	Peak	74	Pass



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NVNT	n20	2462	Ant1	2500	-58.42	2	0.12	38.96	Average	54	Pass
------	-----	------	------	------	--------	---	------	-------	---------	----	------

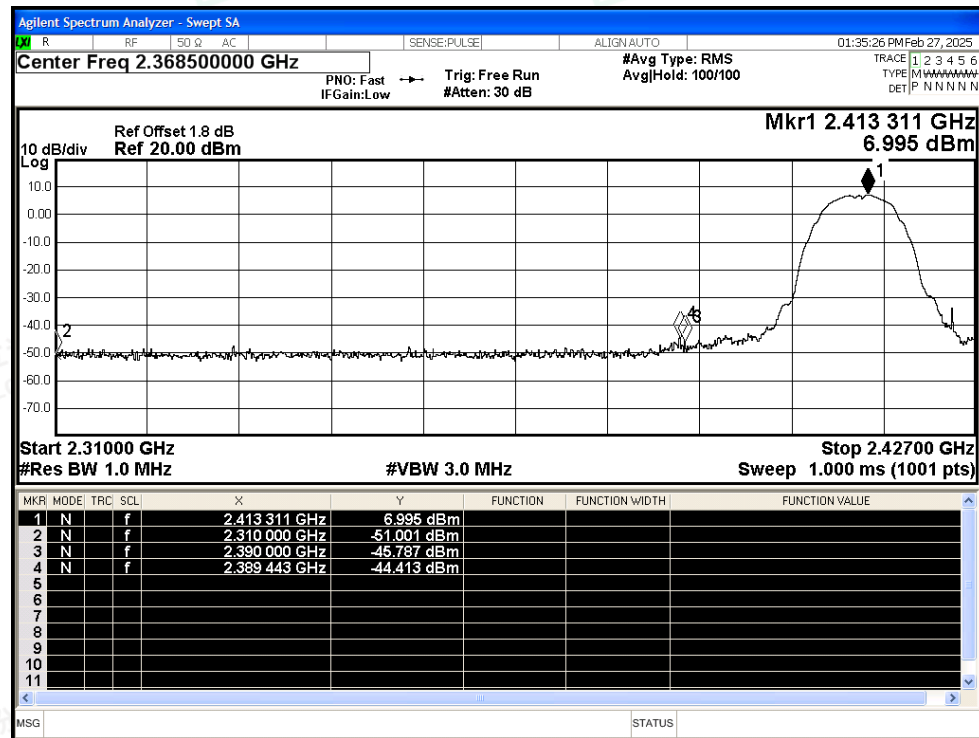


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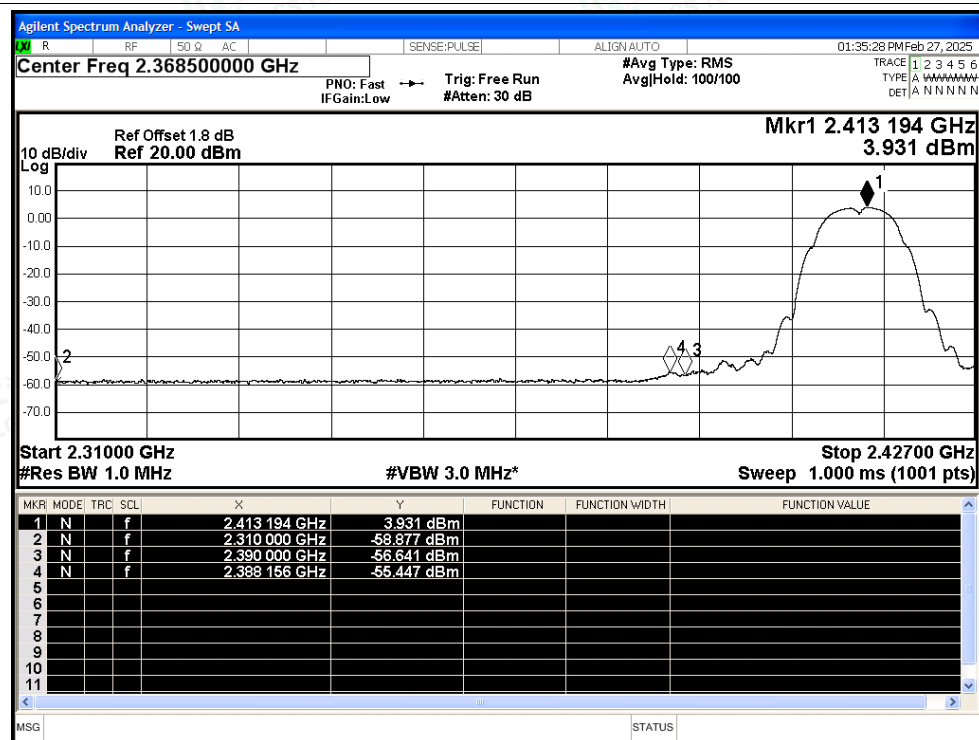


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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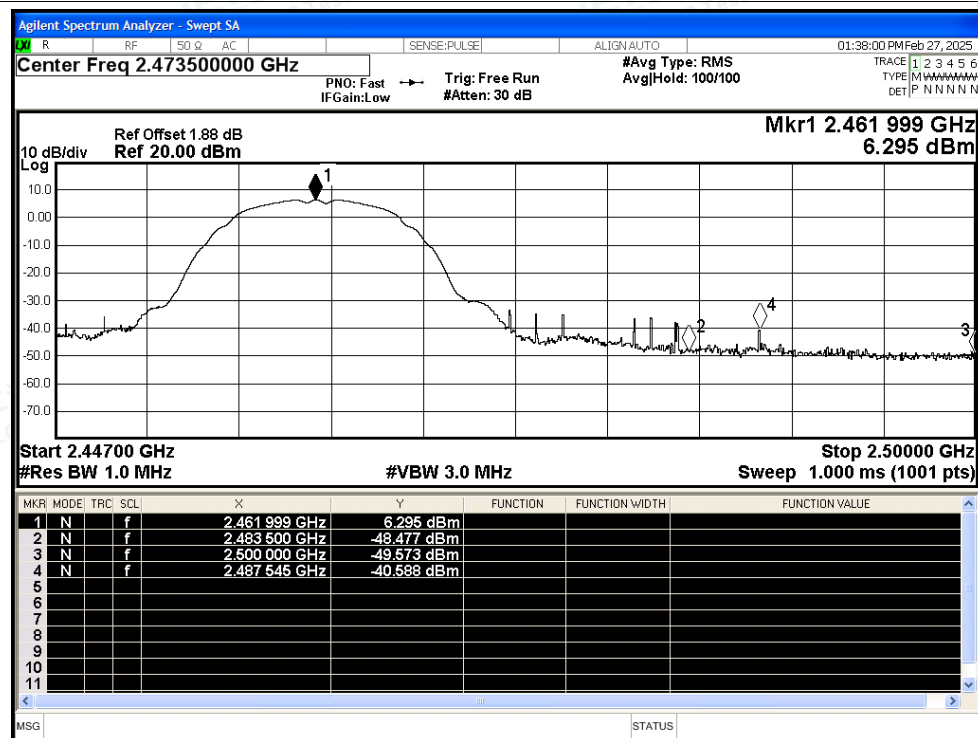
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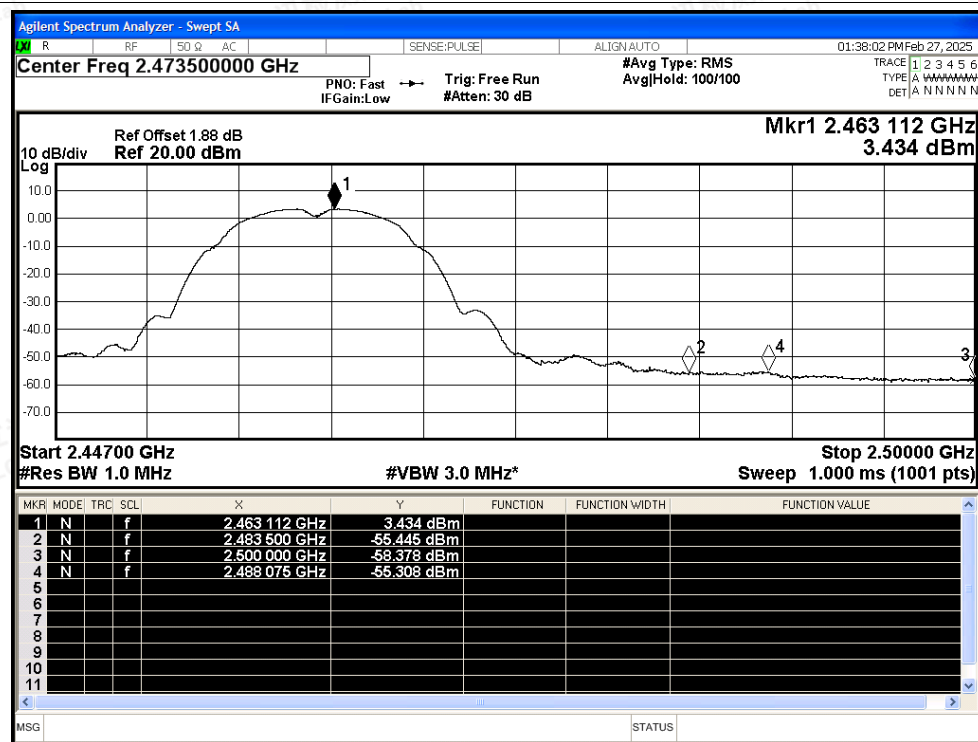
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



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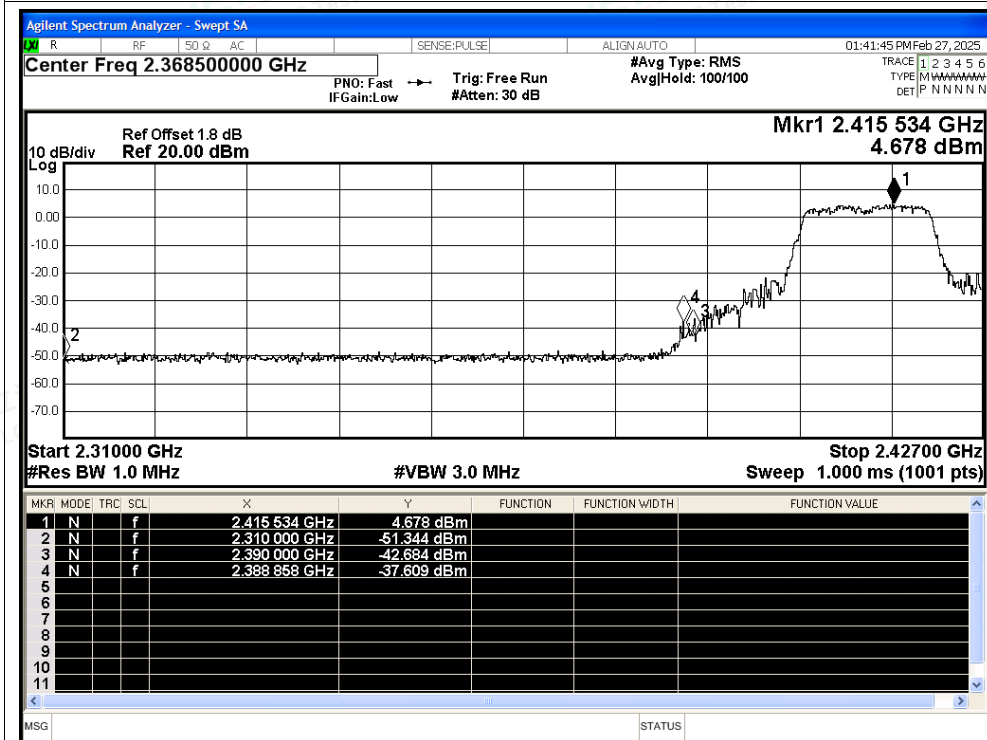
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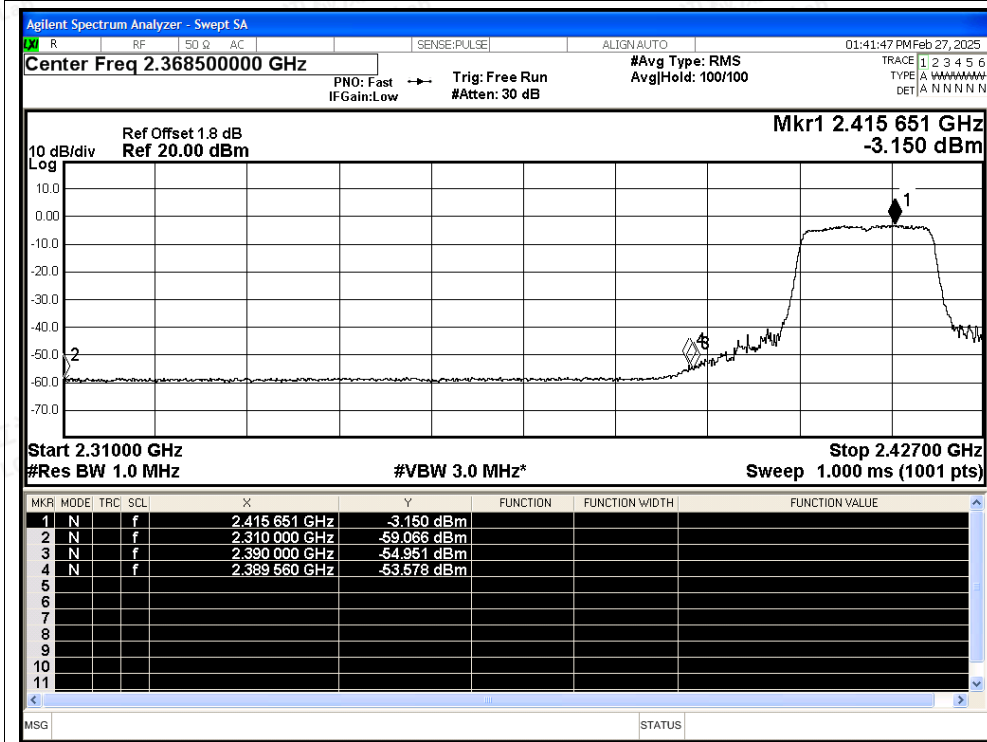
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



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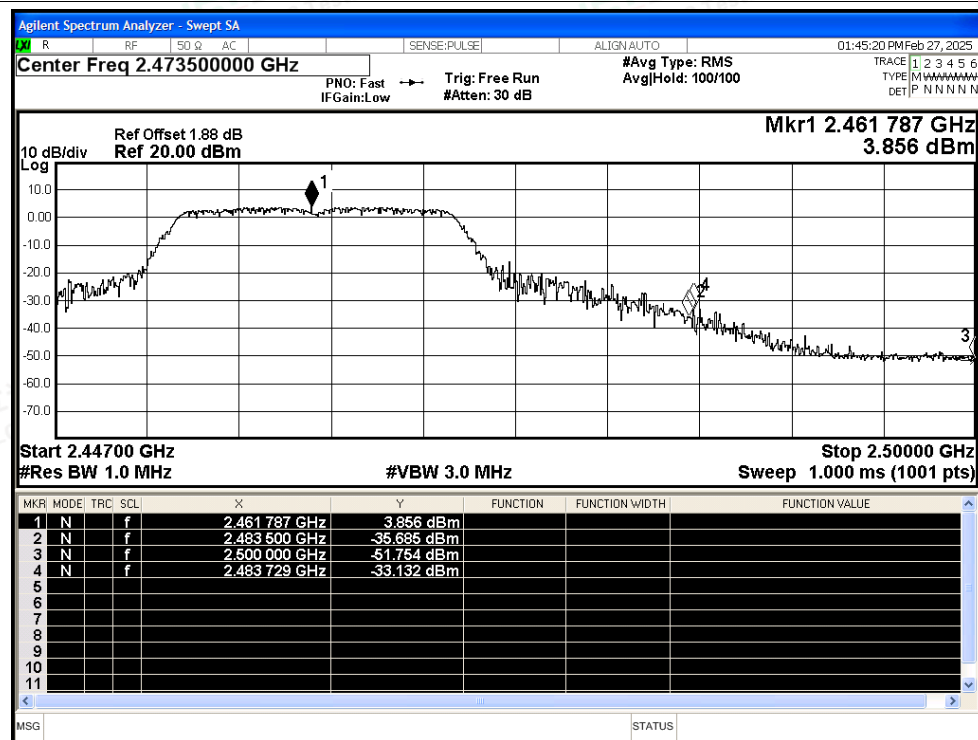
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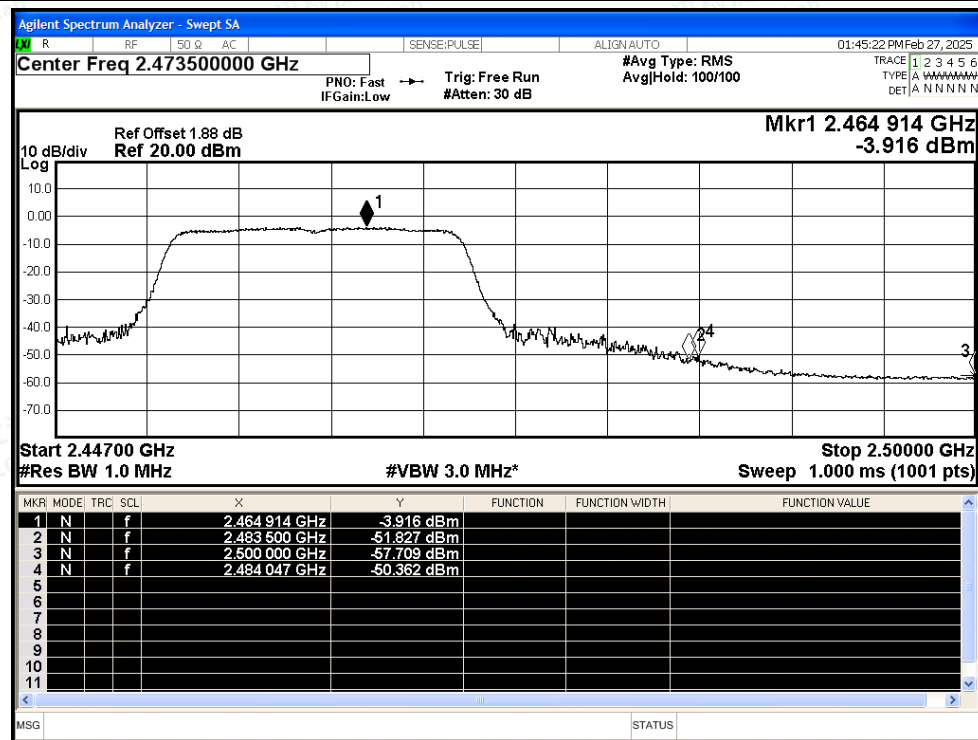
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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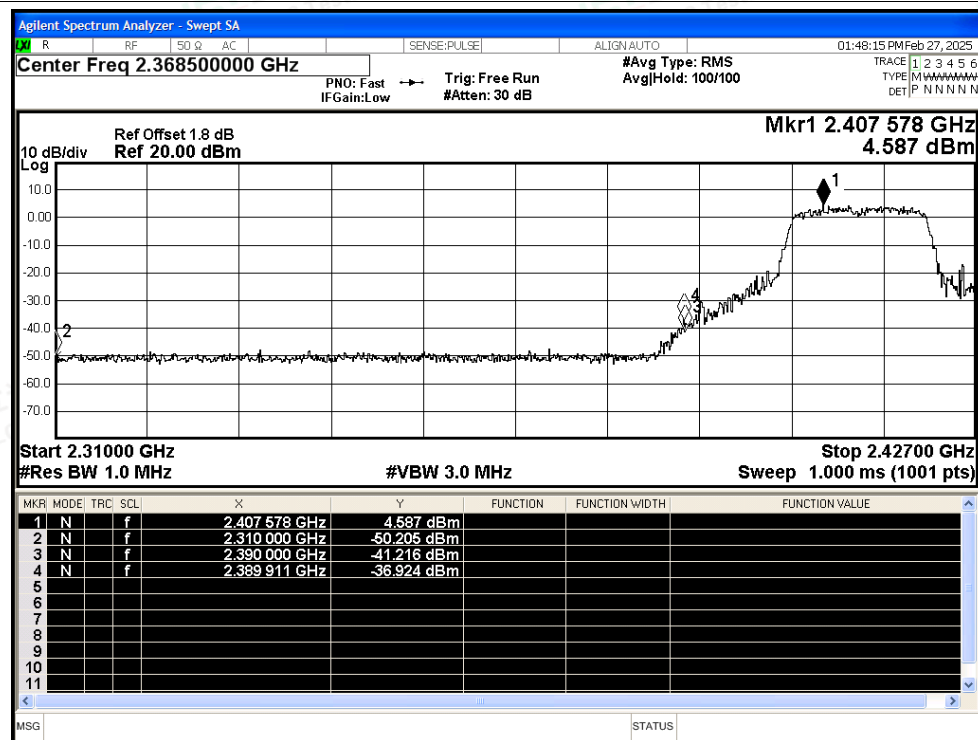
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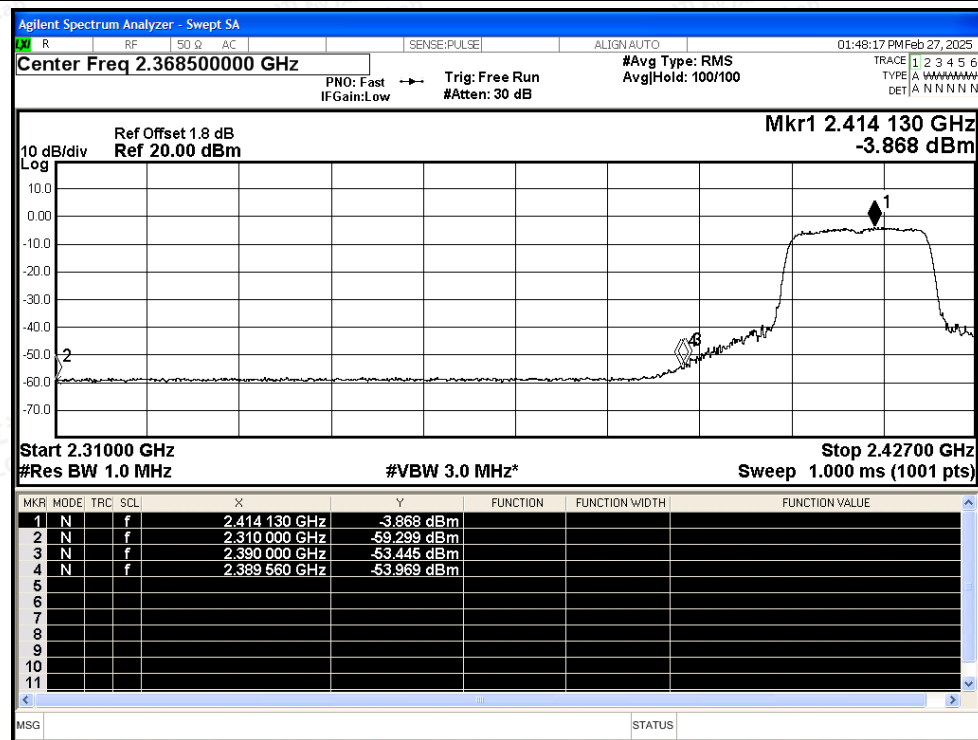
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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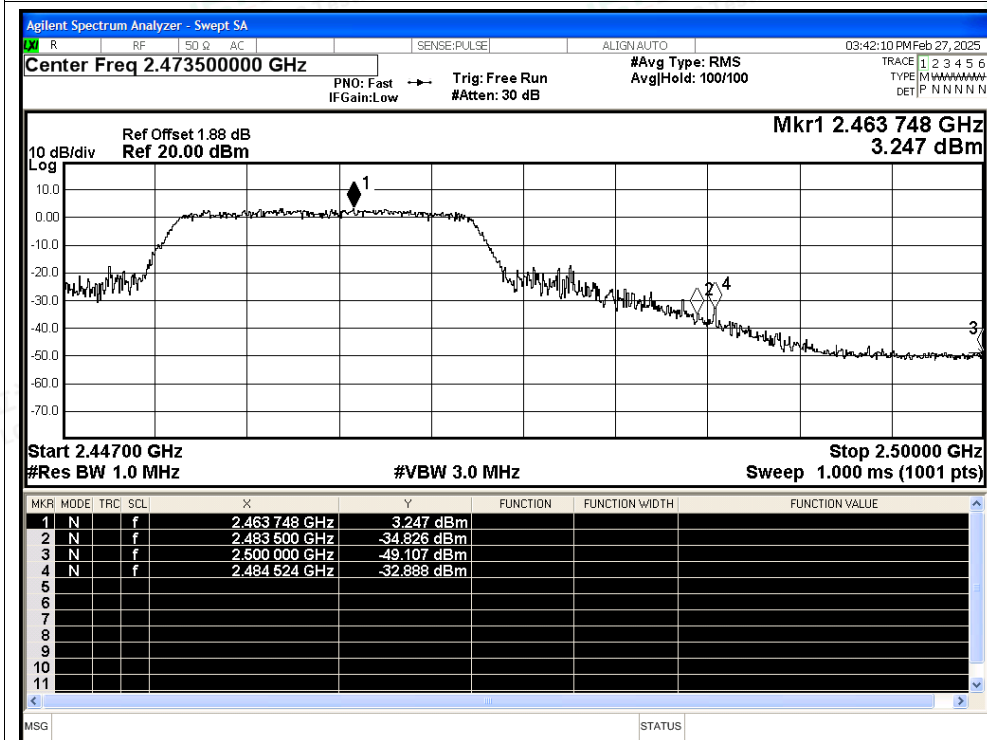
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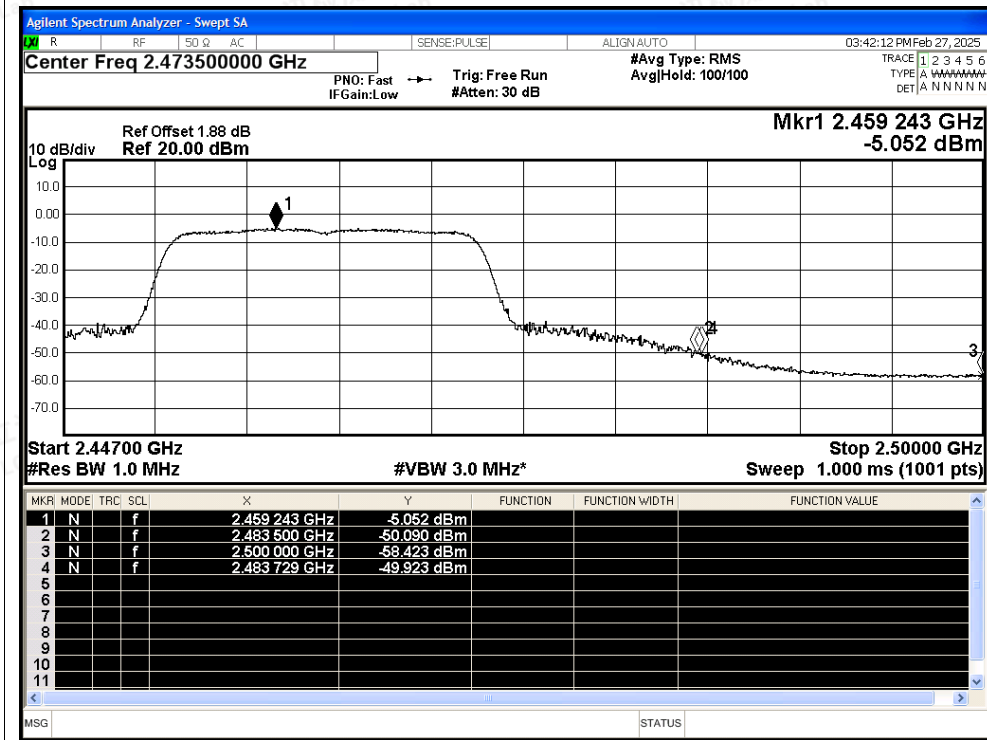
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Restrict Band NVNT n20 2462MHz Ant1 Average



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