

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Rugged Tablet PC

Test Model: M156AD

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
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	Ant0	8.099	≥ 0.5	Pass
NVNT	b	2437	Ant0	8.549	≥ 0.5	Pass
NVNT	b	2462	Ant0	8.581	≥ 0.5	Pass
NVNT	g	2412	Ant0	16.073	≥ 0.5	Pass
NVNT	g	2437	Ant0	16.323	≥ 0.5	Pass
NVNT	g	2462	Ant0	16.324	≥ 0.5	Pass
NVNT	n20	2412	Ant0	16.826	≥ 0.5	Pass
NVNT	n20	2437	Ant0	17.052	≥ 0.5	Pass
NVNT	n20	2462	Ant0	16.987	≥ 0.5	Pass
NVNT	n40	2422	Ant0	35.599	≥ 0.5	Pass
NVNT	n40	2437	Ant0	35.242	≥ 0.5	Pass
NVNT	n40	2452	Ant0	35.567	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0

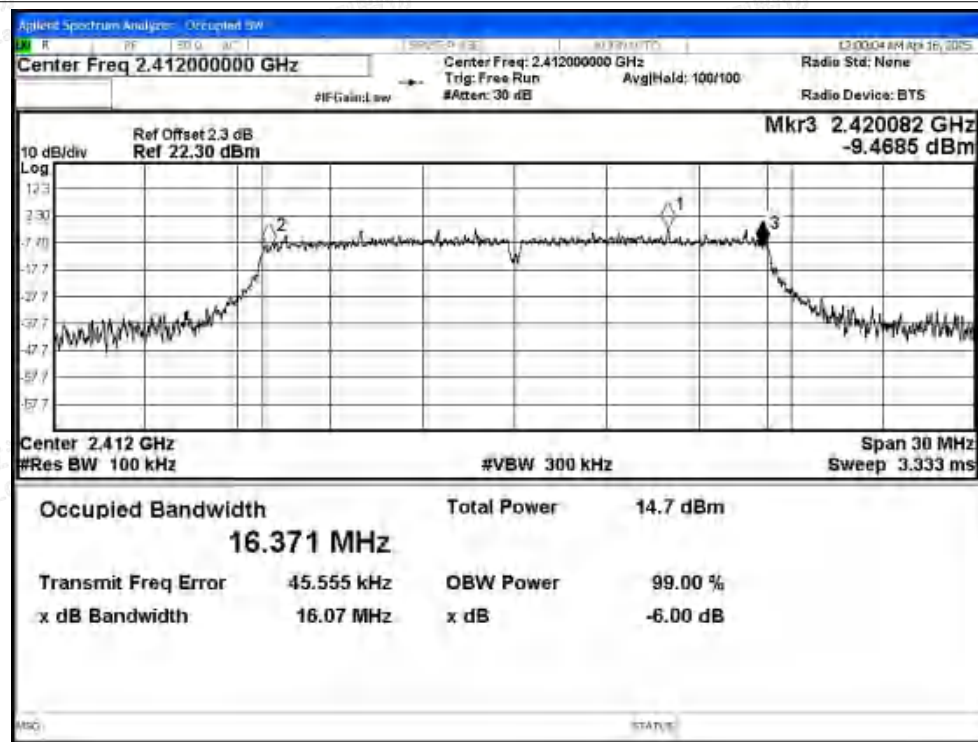




-6dB Bandwidth NVNT b 2462MHz Ant0

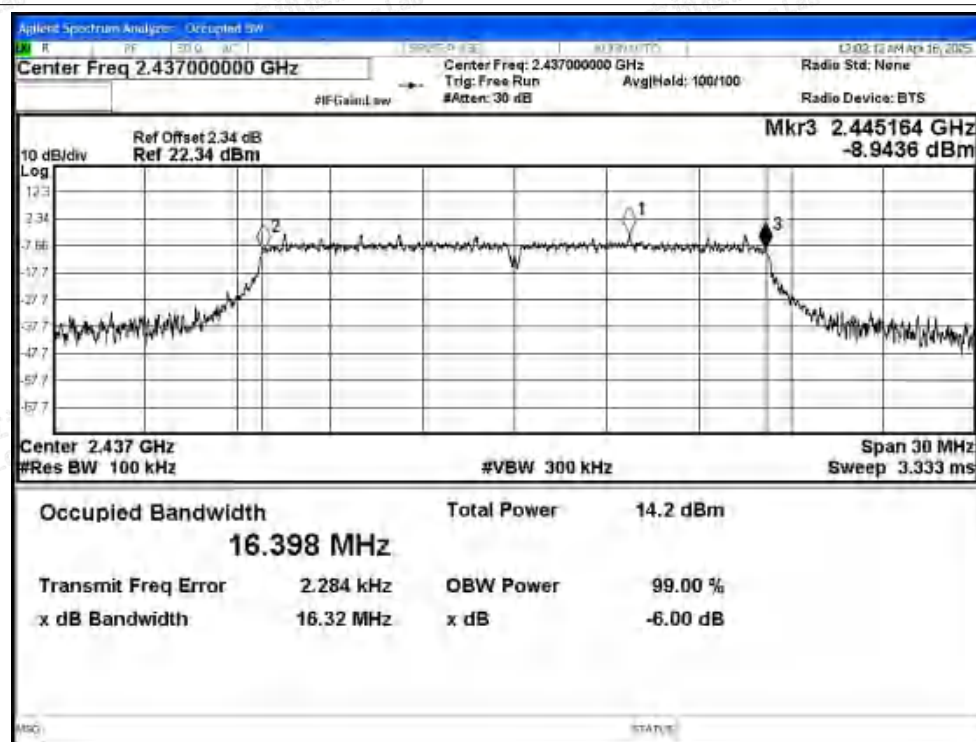


-6dB Bandwidth NVNT g 2412MHz Ant0

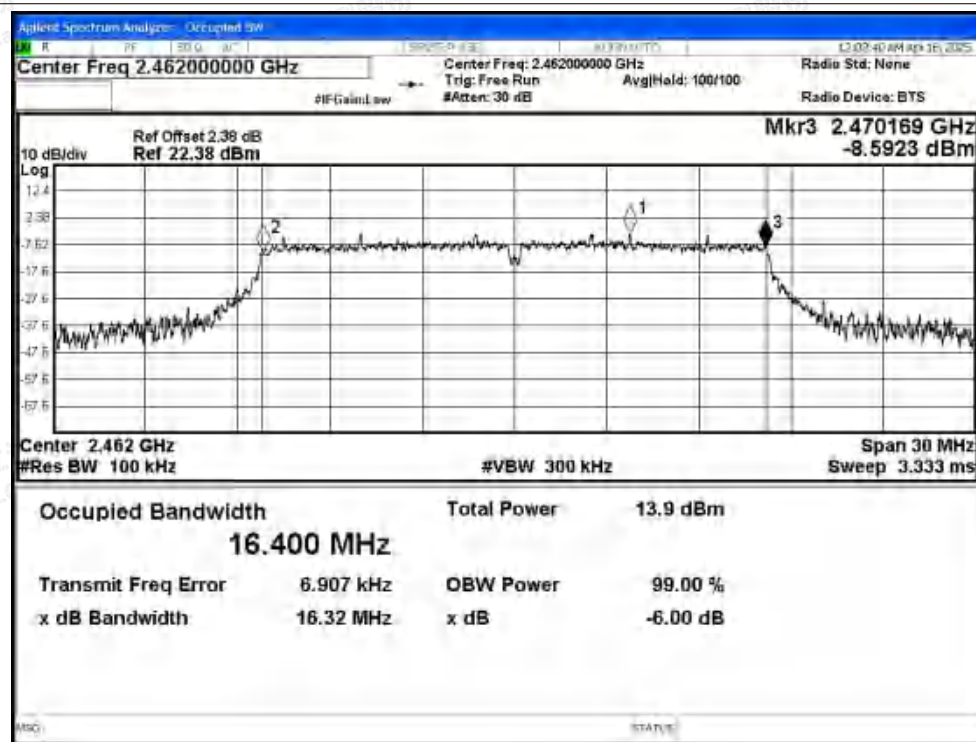




-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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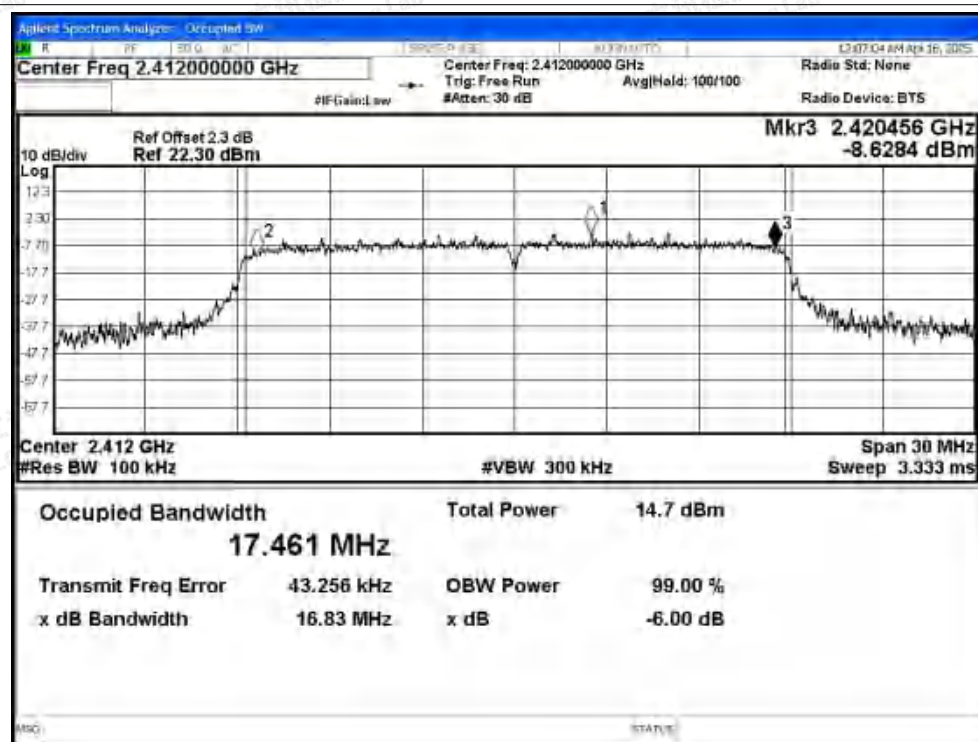
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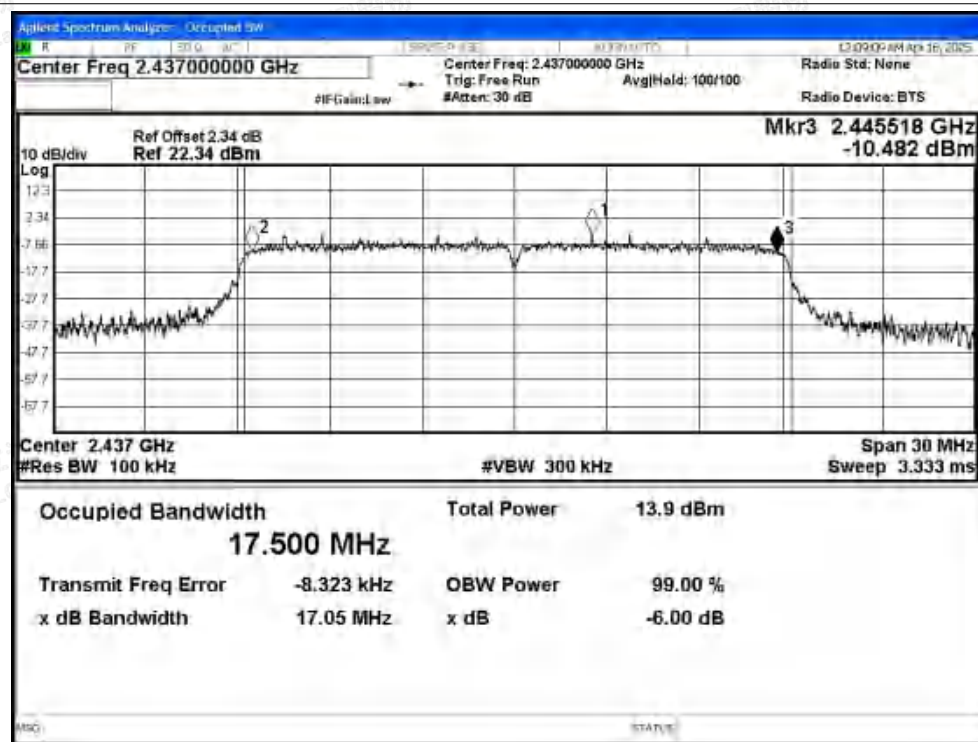
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant0

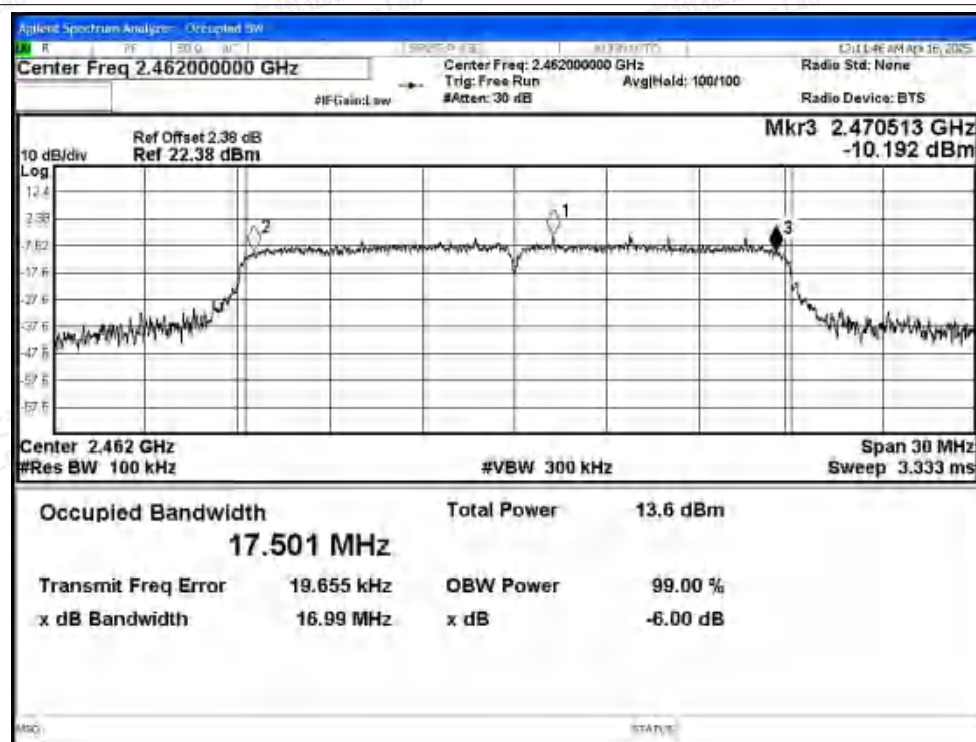


-6dB Bandwidth NVNT n20 2437MHz Ant0

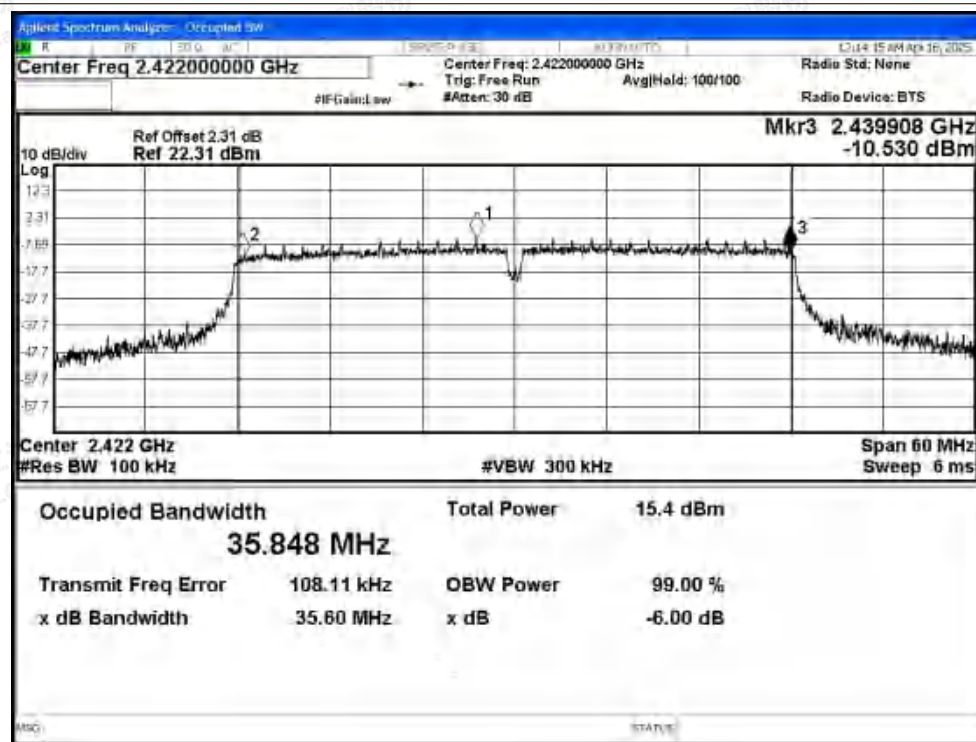




-6dB Bandwidth NVNT n20 2462MHz Ant0

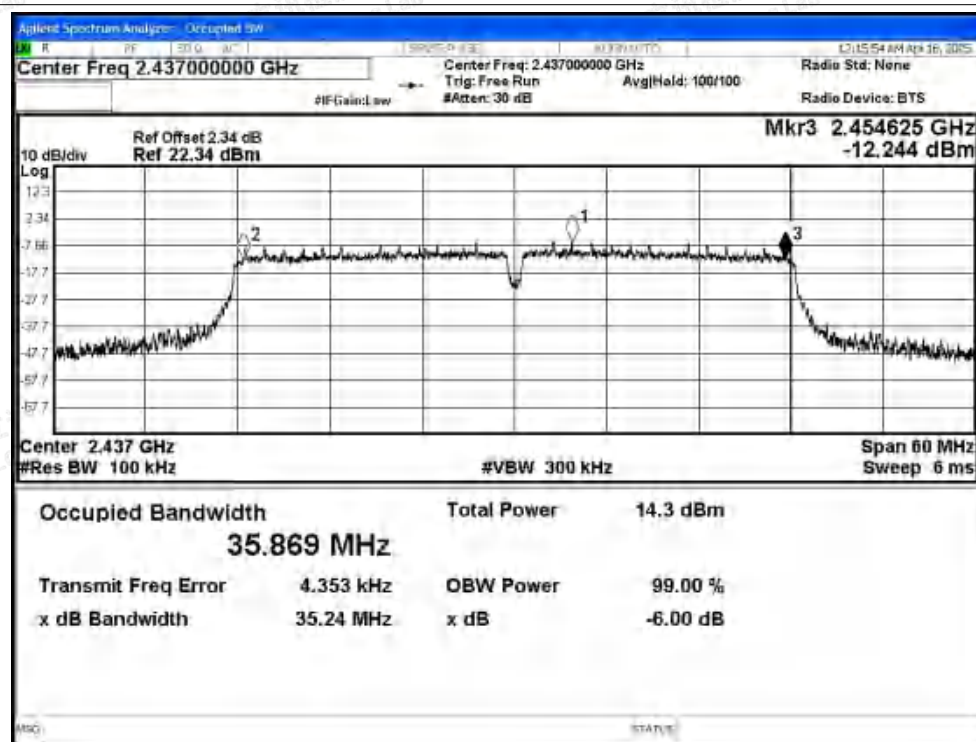


-6dB Bandwidth NVNT n40 2422MHz Ant0

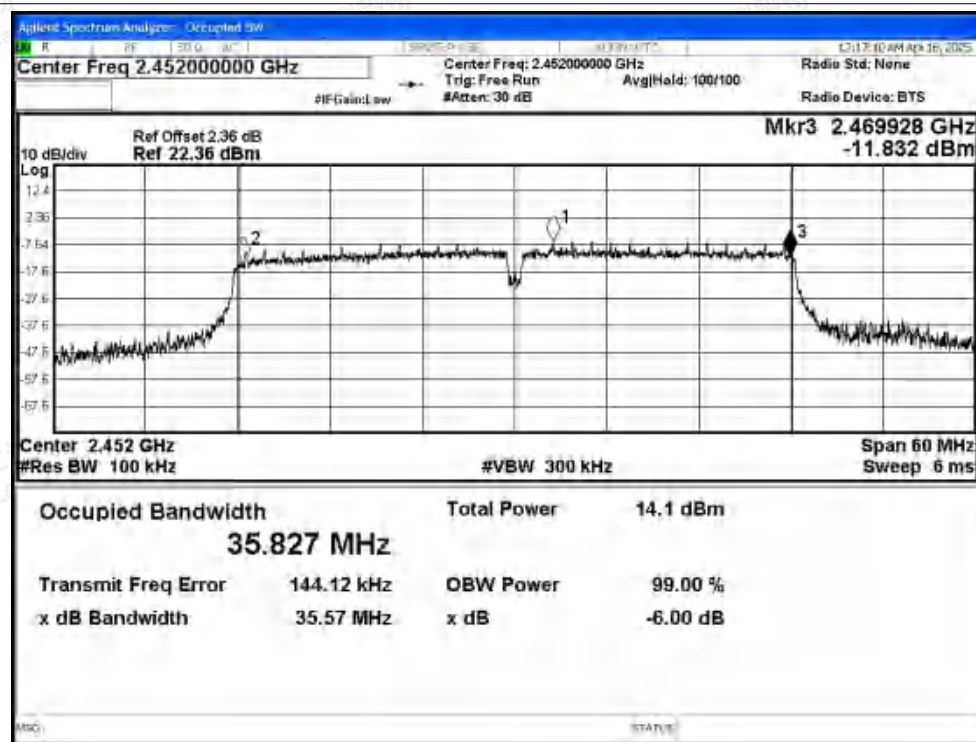


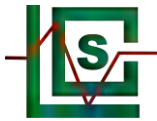


-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.104	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.063	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.059	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.07	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.457	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.345	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.53	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.572	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.256	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.029	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.758	≥ 0.5	Pass
NVNT	n40	2452	Ant1	34.899	≥ 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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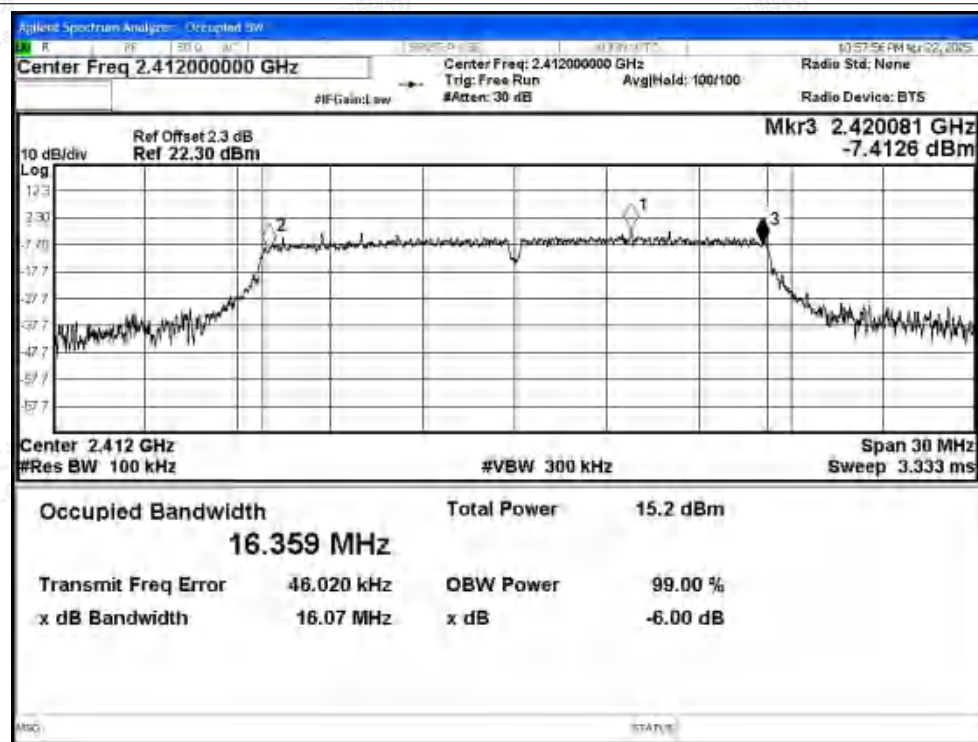
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant1

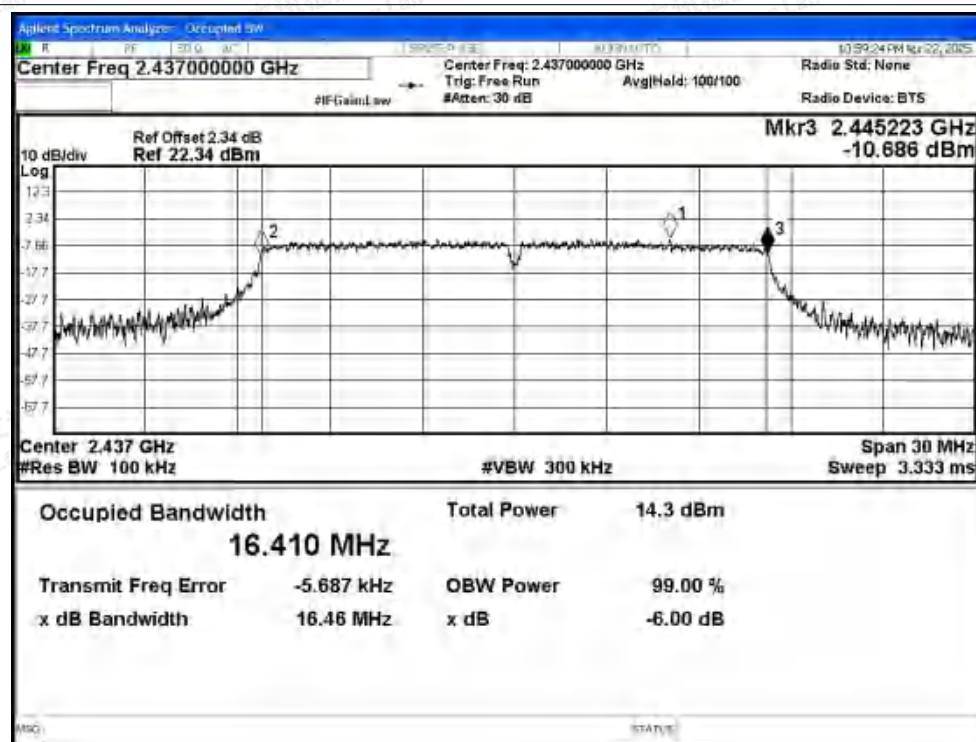


-6dB Bandwidth NVNT g 2412MHz Ant1

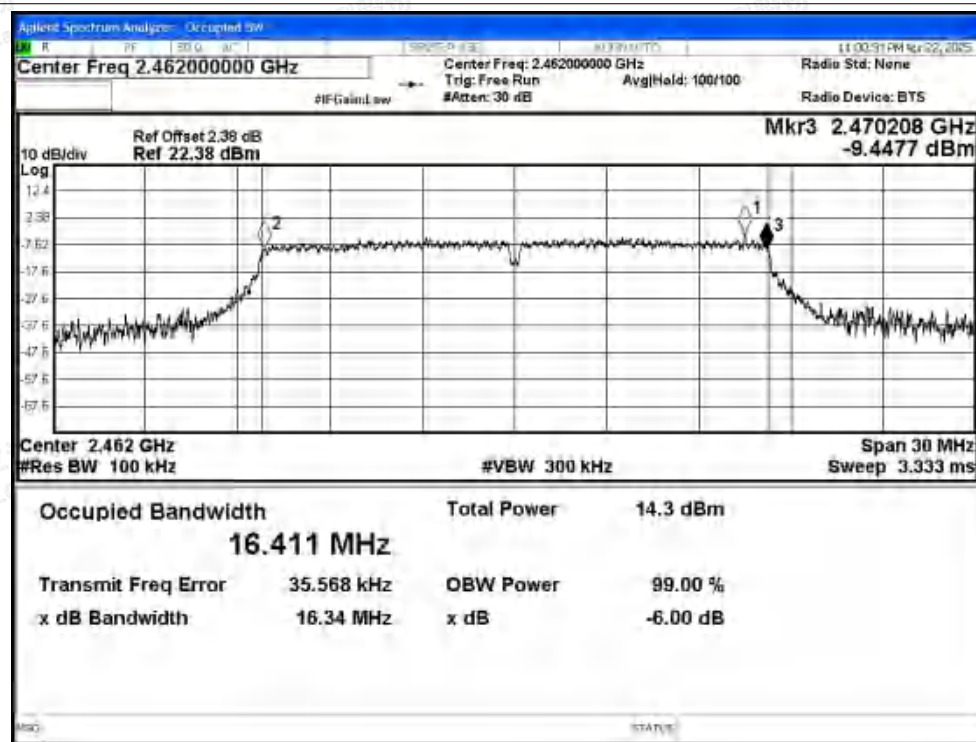




-6dB Bandwidth NVNT g 2437MHz Ant1

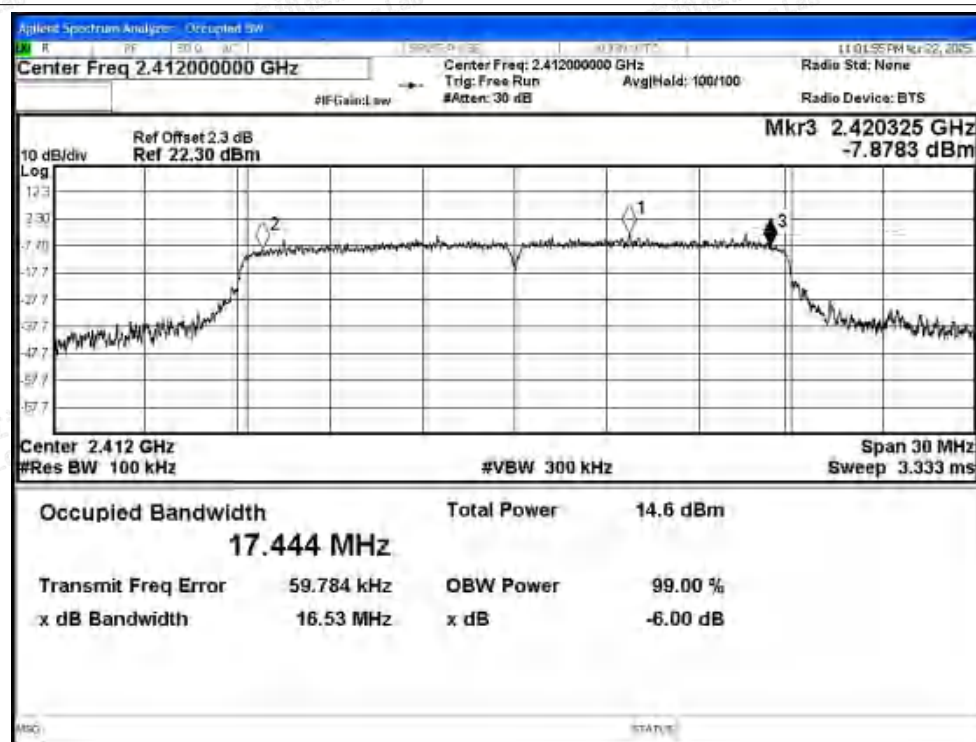


-6dB Bandwidth NVNT g 2462MHz Ant1

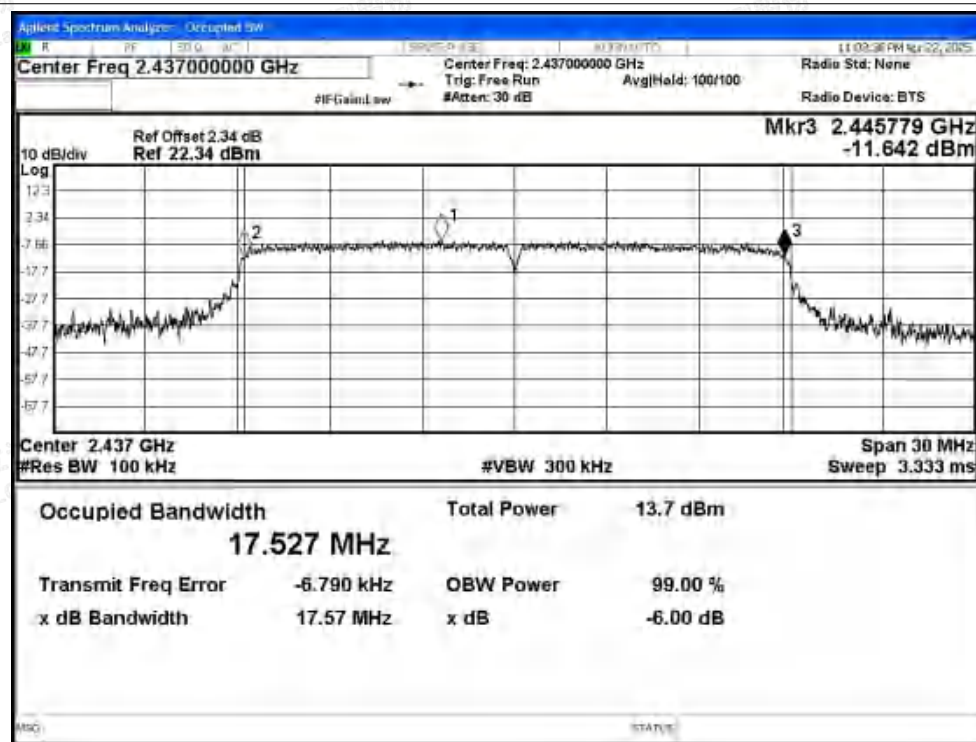




-6dB Bandwidth NVNT n20 2412MHz Ant1

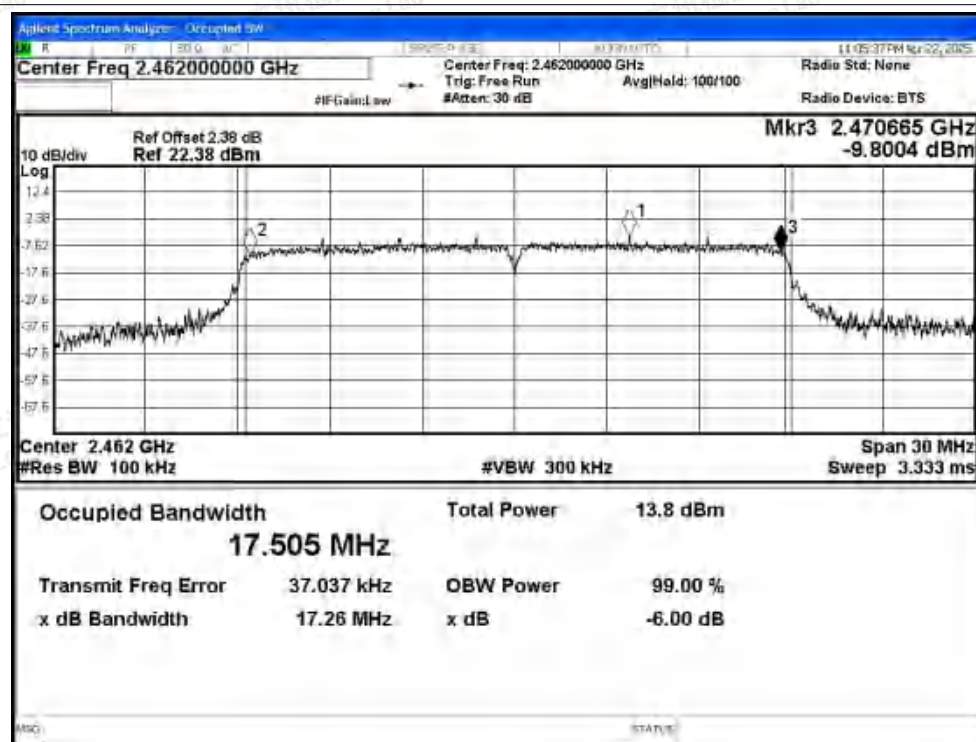


-6dB Bandwidth NVNT n20 2437MHz Ant1

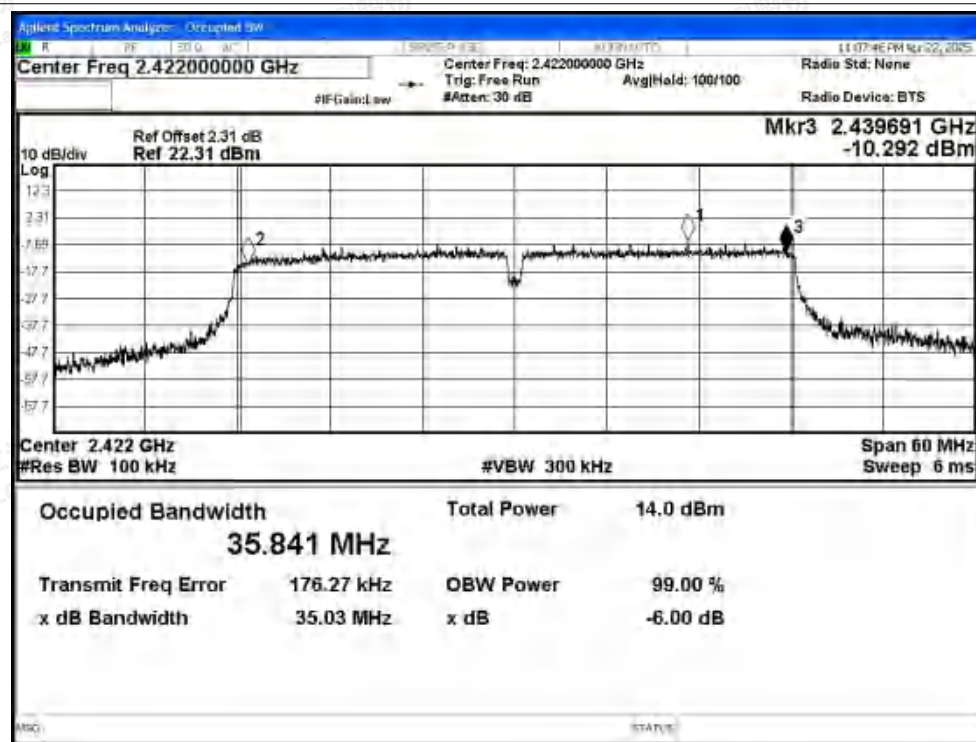




-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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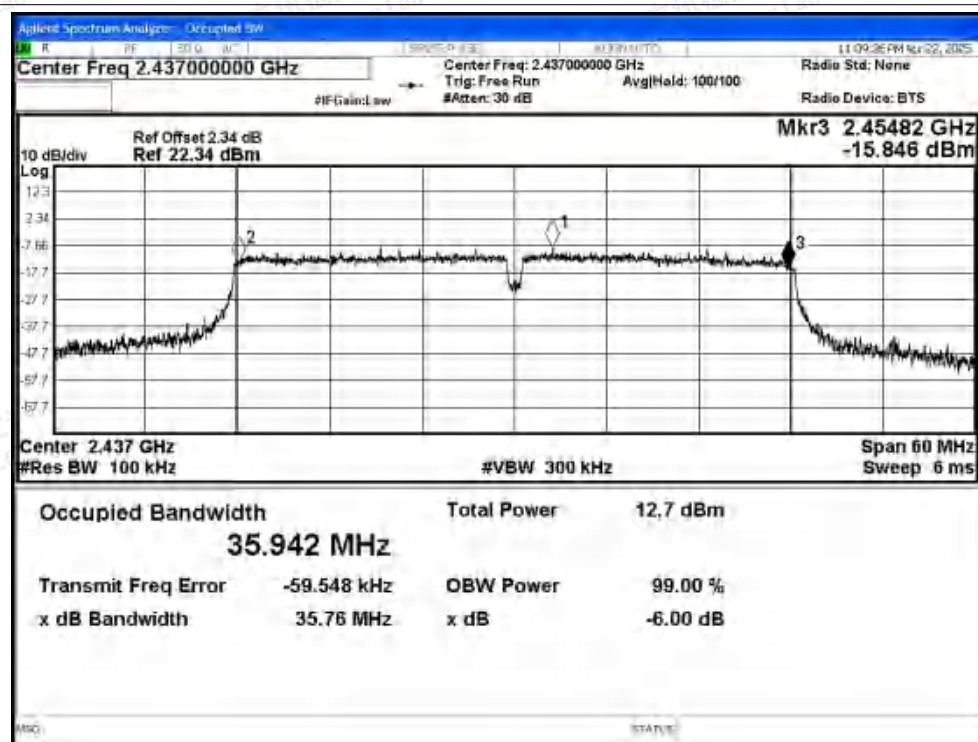
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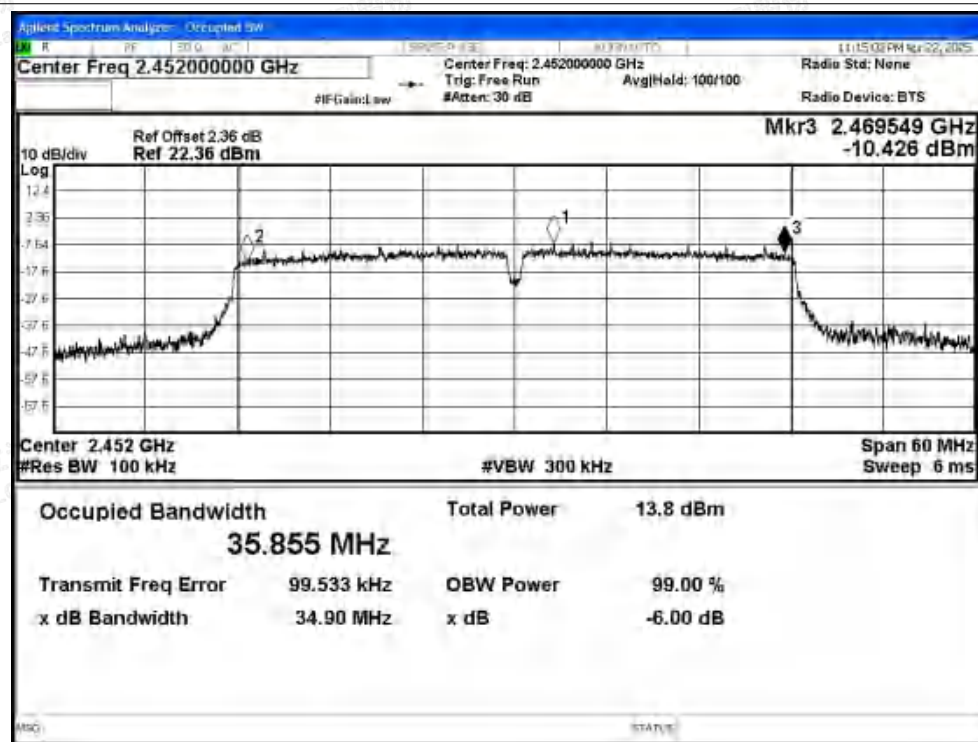
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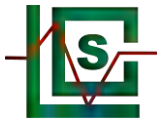


-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant0	15.33	30	Pass
NVNT	b	2437	Ant0	14.93	30	Pass
NVNT	b	2462	Ant0	14.25	30	Pass
NVNT	g	2412	Ant0	13.49	30	Pass
NVNT	g	2437	Ant0	12.89	30	Pass
NVNT	g	2462	Ant0	12.62	30	Pass
NVNT	n20	2412	Ant0	13.17	30	Pass
NVNT	n20	2437	Ant0	12.46	30	Pass
NVNT	n20	2462	Ant0	12.15	30	Pass
NVNT	n40	2422	Ant0	13.68	30	Pass
NVNT	n40	2437	Ant0	12.52	30	Pass
NVNT	n40	2452	Ant0	12.44	30	Pass

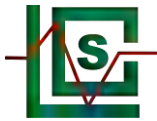
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.75	30	Pass
NVNT	b	2437	Ant1	15.38	30	Pass
NVNT	b	2462	Ant1	14.78	30	Pass
NVNT	g	2412	Ant1	14.01	30	Pass
NVNT	g	2437	Ant1	13.47	30	Pass
NVNT	g	2462	Ant1	13.26	30	Pass
NVNT	n20	2412	Ant1	13.32	30	Pass
NVNT	n20	2437	Ant1	12.44	30	Pass
NVNT	n20	2462	Ant1	12.57	30	Pass
NVNT	n40	2422	Ant1	12.3	30	Pass
NVNT	n40	2437	Ant1	11.45	30	Pass
NVNT	n40	2452	Ant1	12.29	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	13.17	13.32	16.26	30	Pass
NVNT	n20	2437	12.46	12.44	15.46	30	Pass
NVNT	n20	2462	12.15	12.57	15.38	30	Pass
NVNT	n40	2422	13.68	12.3	16.05	30	Pass
NVNT	n40	2437	12.52	11.45	15.03	30	Pass
NVNT	n40	2452	12.44	12.29	15.38	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	Ant0	-8.39	8	Pass
NVNT	b	2437	Ant0	-8.96	8	Pass
NVNT	b	2462	Ant0	-6.41	8	Pass
NVNT	g	2412	Ant0	-16.01	8	Pass
NVNT	g	2437	Ant0	-18.23	8	Pass
NVNT	g	2462	Ant0	-17.91	8	Pass
NVNT	n20	2412	Ant0	-17.5	8	Pass
NVNT	n20	2437	Ant0	-17.61	8	Pass
NVNT	n20	2462	Ant0	-18.99	8	Pass
NVNT	n40	2422	Ant0	-19.3	8	Pass
NVNT	n40	2437	Ant0	-21.12	8	Pass
NVNT	n40	2452	Ant0	-21.4	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.94	8	Pass
NVNT	b	2437	Ant1	-8.09	8	Pass
NVNT	b	2462	Ant1	-8.91	8	Pass
NVNT	g	2412	Ant1	-16.59	8	Pass
NVNT	g	2437	Ant1	-17.71	8	Pass
NVNT	g	2462	Ant1	-17.45	8	Pass
NVNT	n20	2412	Ant1	-16.95	8	Pass
NVNT	n20	2437	Ant1	-18.39	8	Pass
NVNT	n20	2462	Ant1	-17.35	8	Pass
NVNT	n40	2422	Ant1	-20.59	8	Pass
NVNT	n40	2437	Ant1	-22.64	8	Pass
NVNT	n40	2452	Ant1	-21.05	8	Pass

MIMO

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-17.5	-16.95	-14.21	7.18	Pass
NVNT	n20	2437	-17.61	-18.39	-14.97	7.18	Pass
NVNT	n20	2462	-18.99	-17.35	-15.08	7.18	Pass
NVNT	n40	2422	-19.3	-20.59	-16.89	7.18	Pass
NVNT	n40	2437	-21.12	-22.64	-18.80	7.18	Pass
NVNT	n40	2452	-21.4	-21.05	-18.21	7.18	Pass

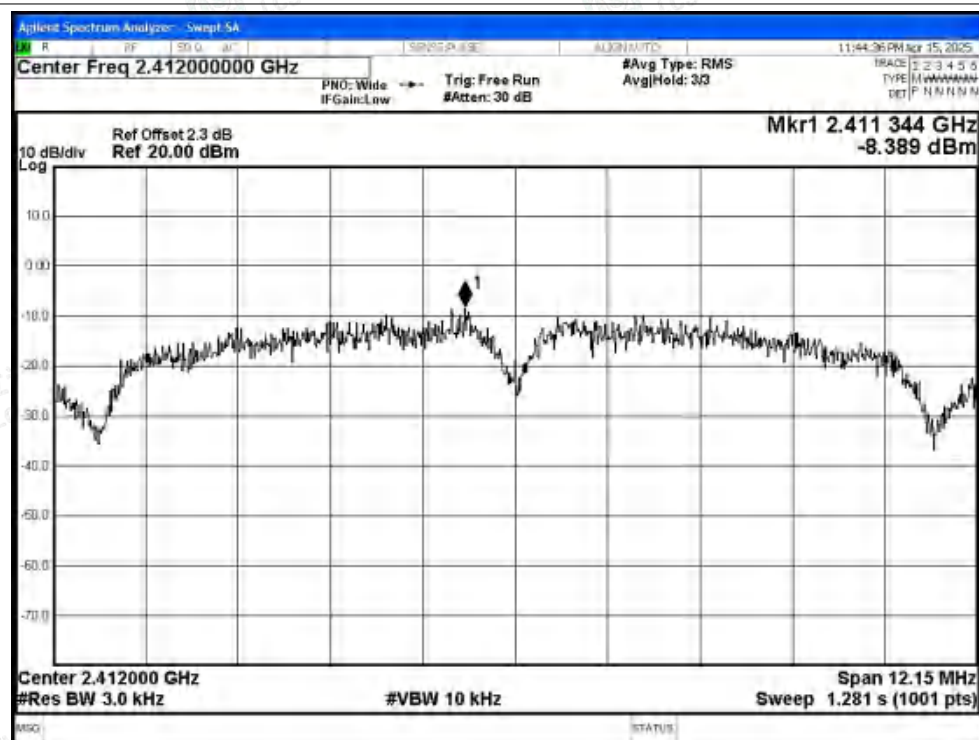


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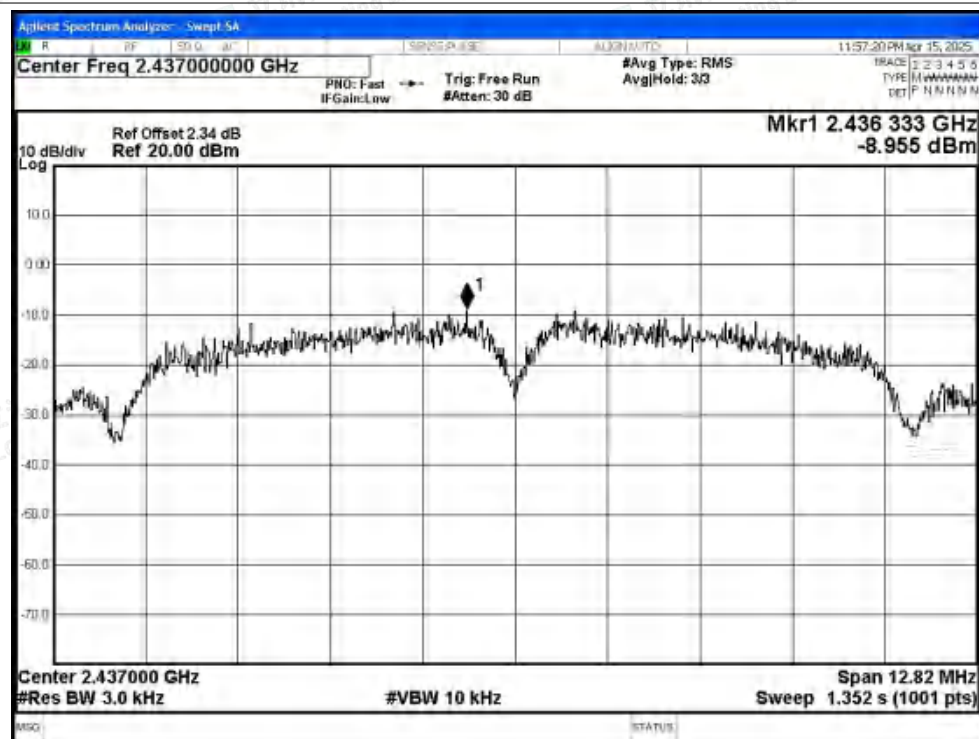


Test Graphs

PSD NVNT b 2412MHz Ant0

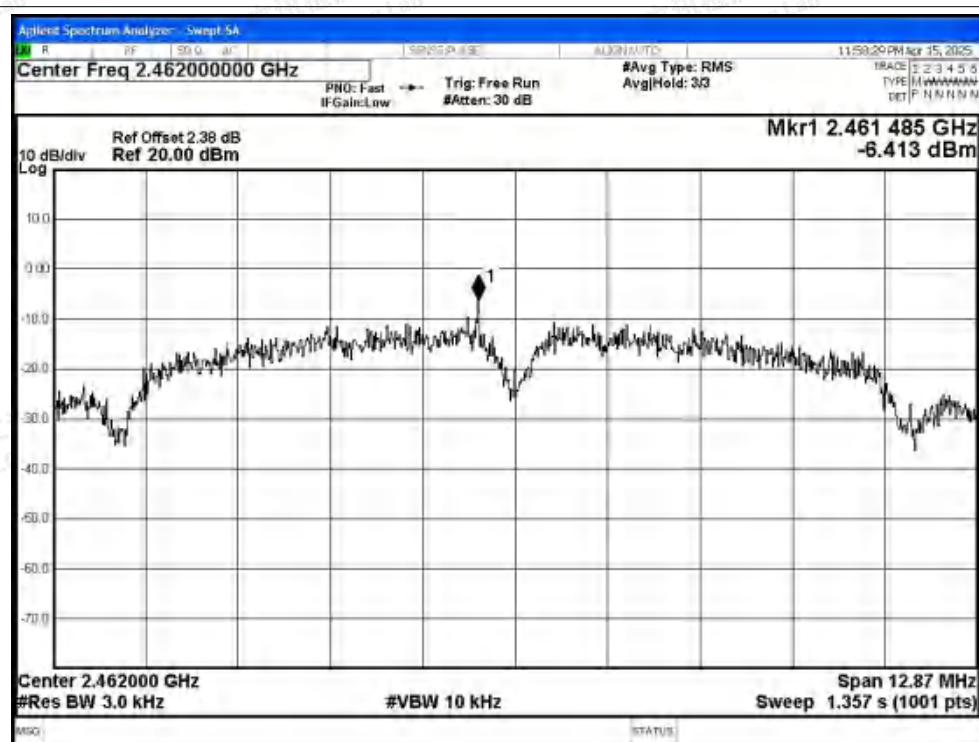


PSD NVNT b 2437MHz Ant0

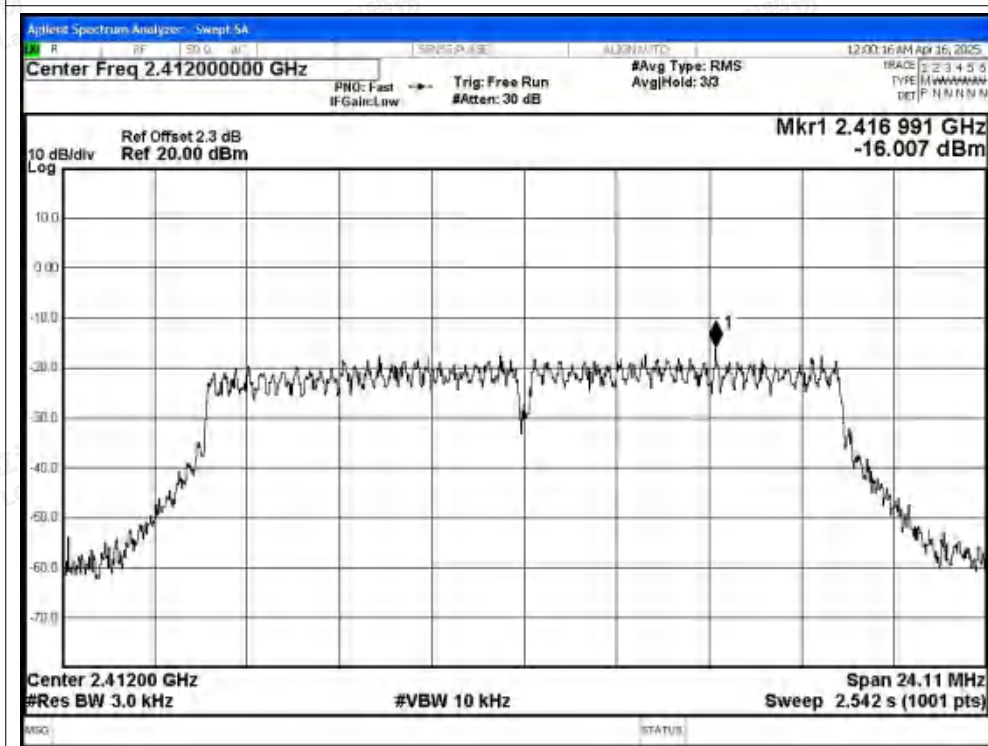


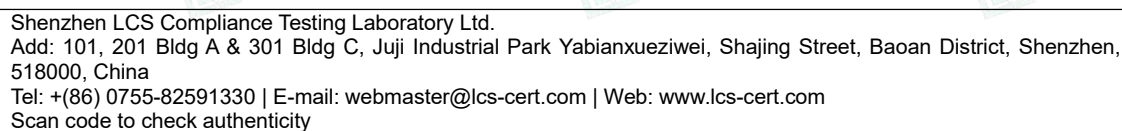
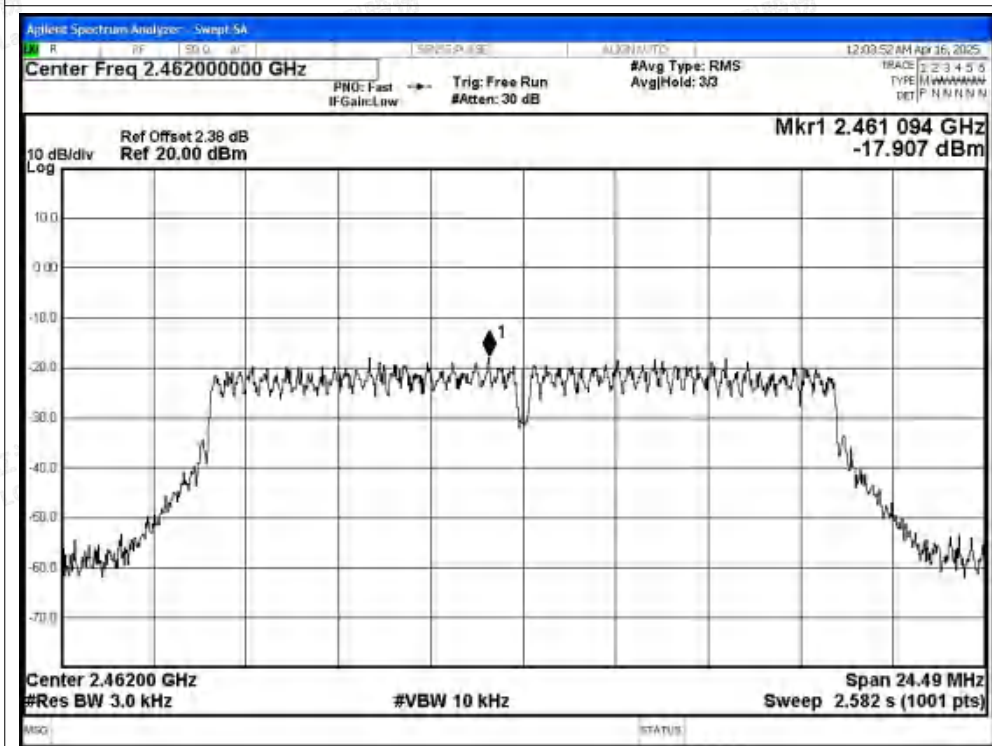
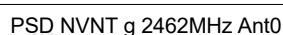


PSD NVNT b 2462MHz Ant0



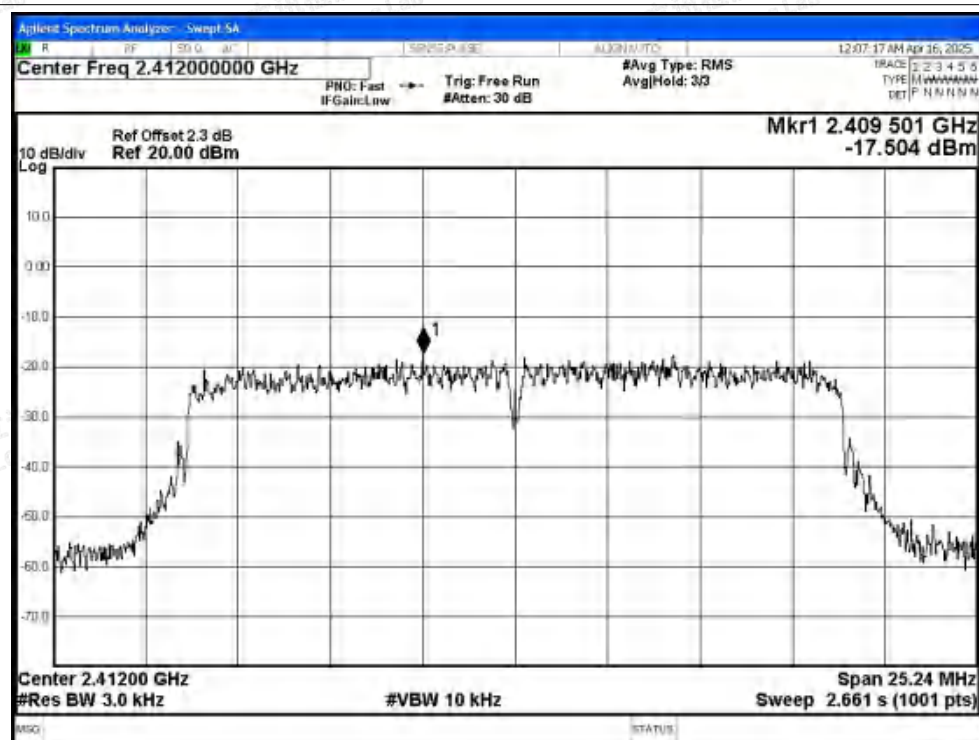
PSD NVNT g 2412MHz Ant0



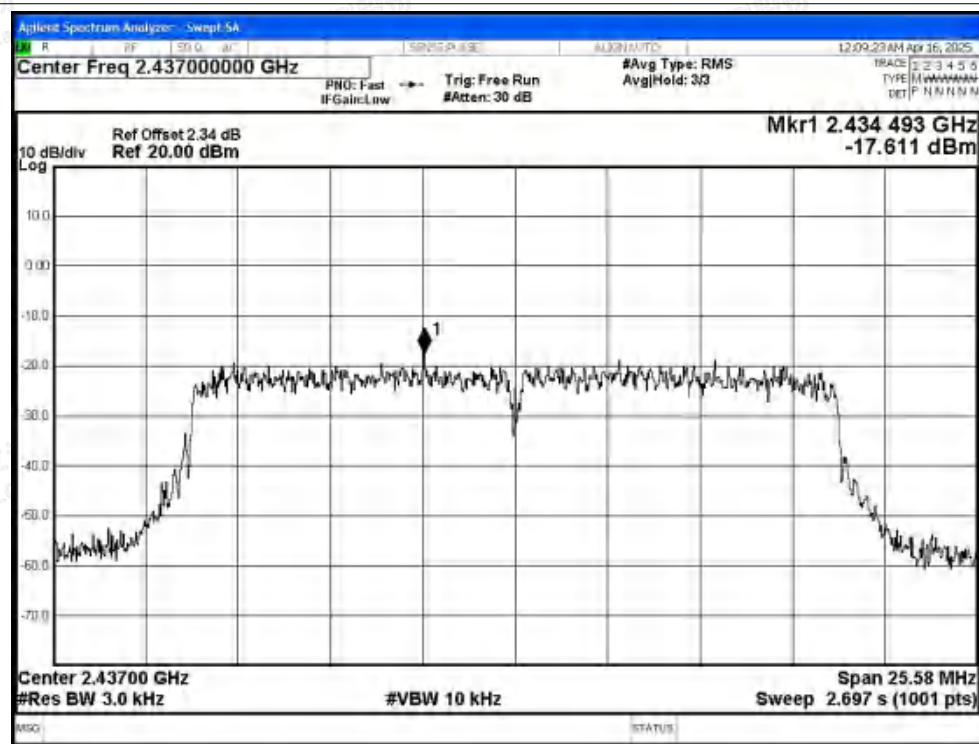




PSD NVNT n20 2412MHz Ant0

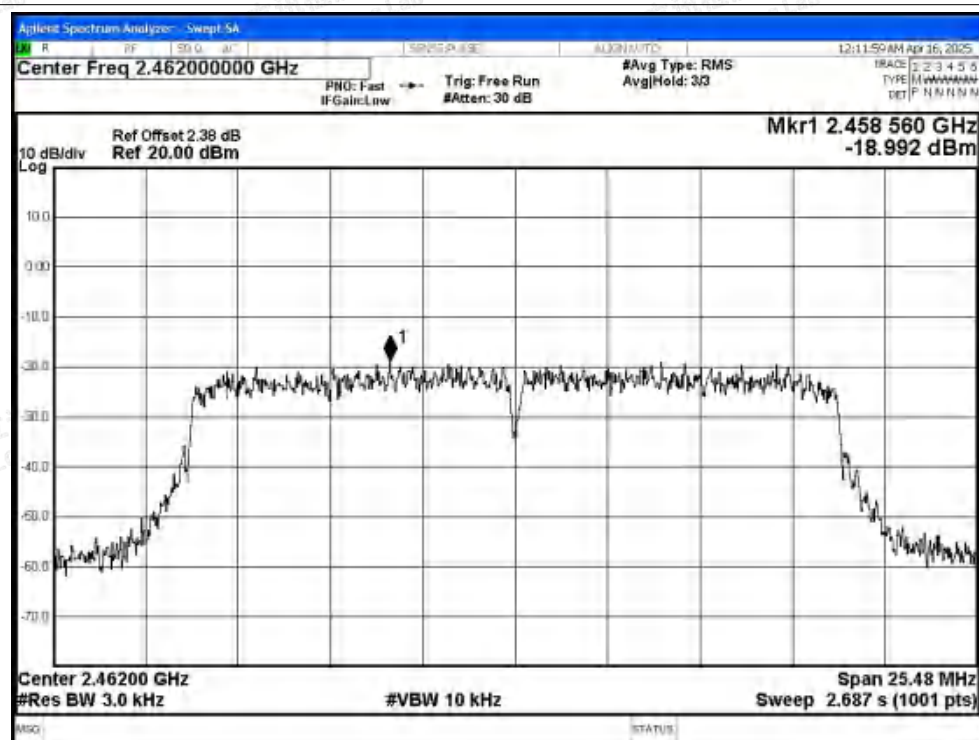


PSD NVNT n20 2437MHz Ant0

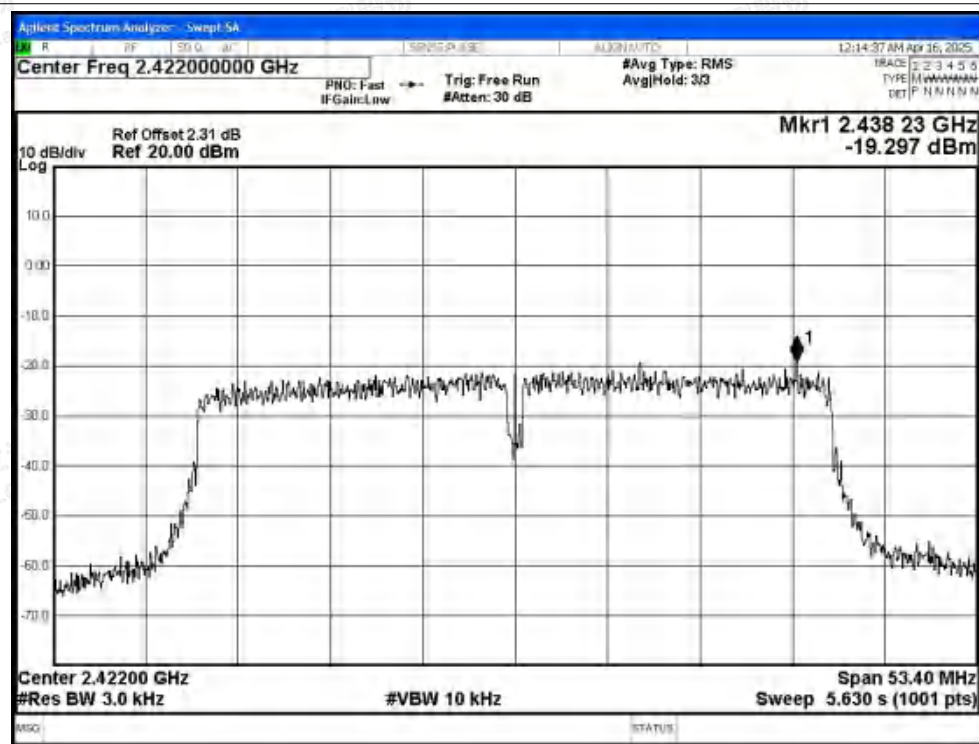




PSD NVNT n20 2462MHz Ant0

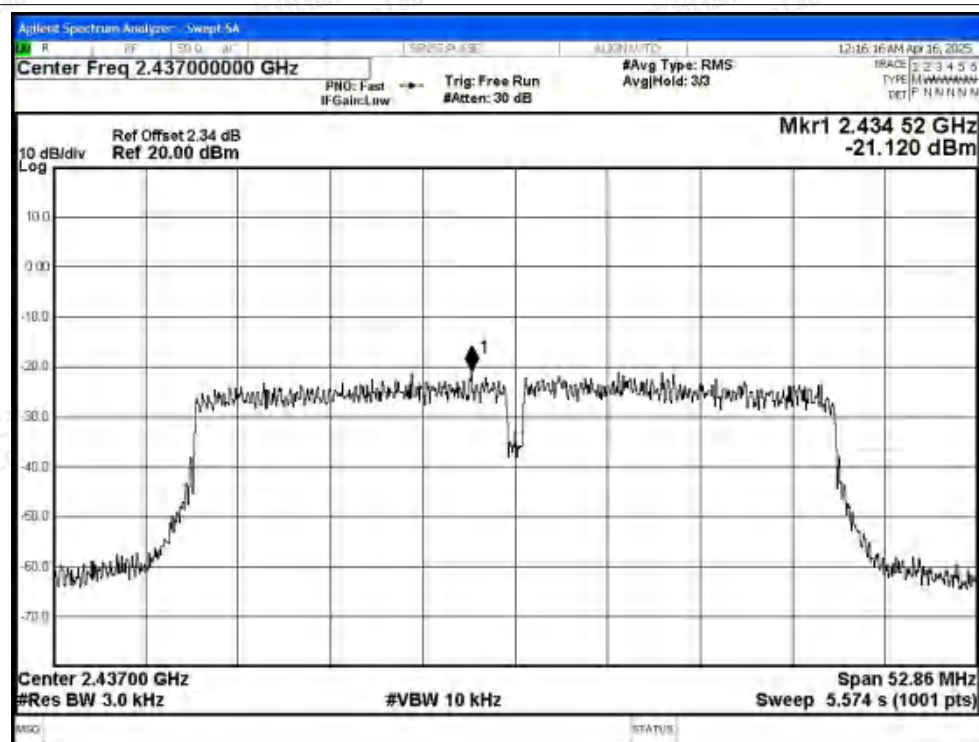


PSD NVNT n40 2422MHz Ant0

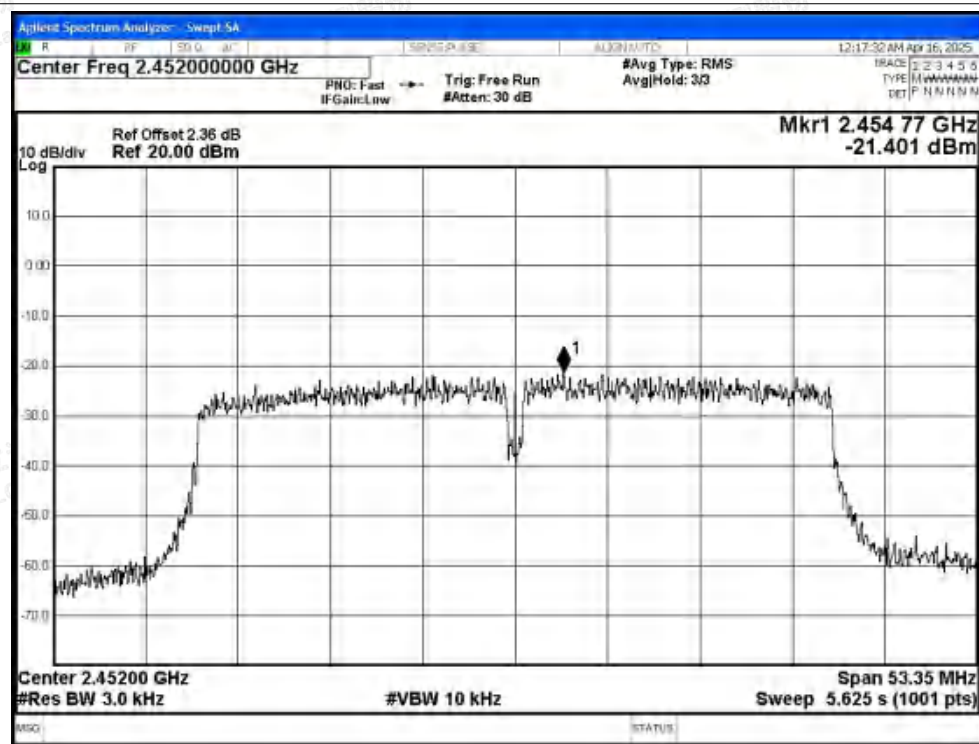




PSD NVNT n40 2437MHz Ant0



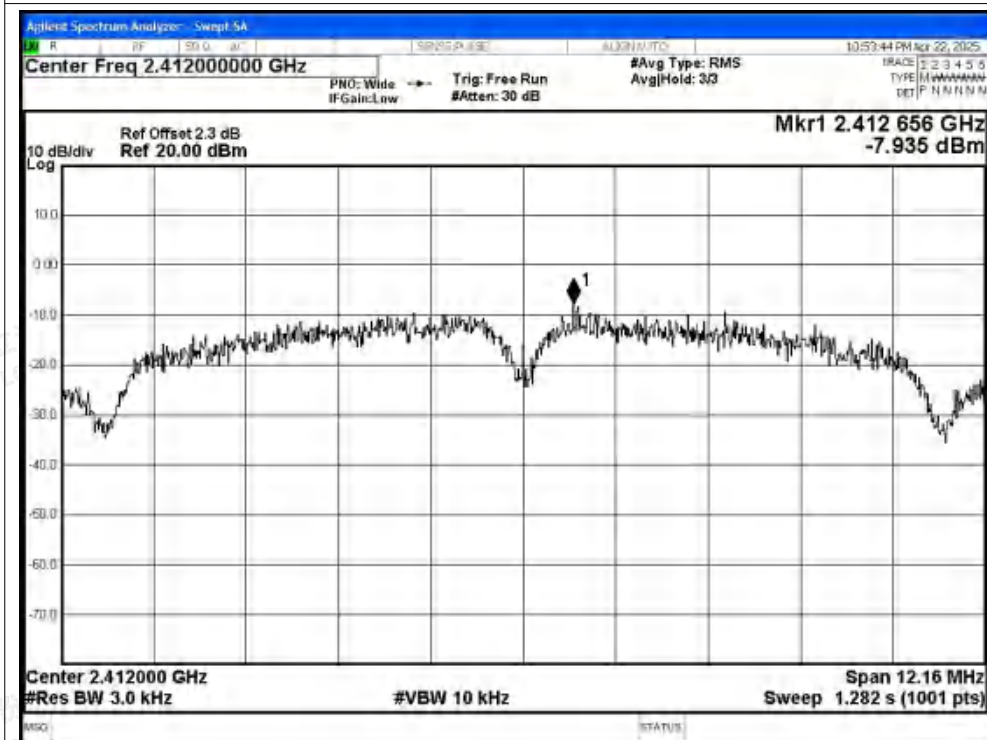
PSD NVNT n40 2452MHz Ant0



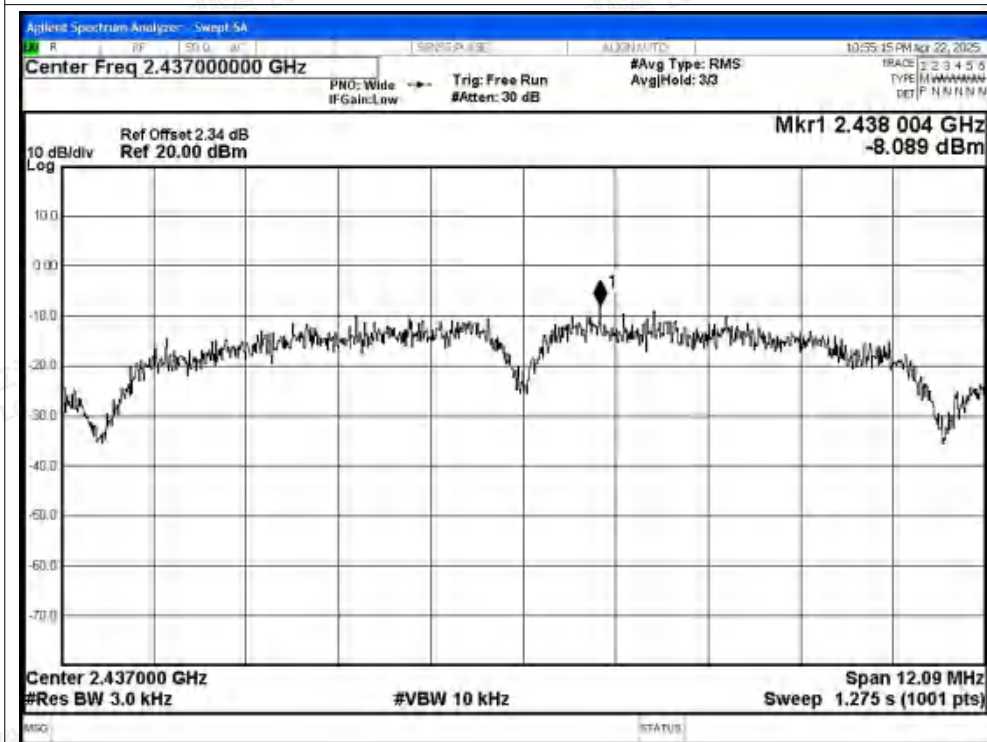


Test Graphs

PSD NVNT b 2412MHz Ant1

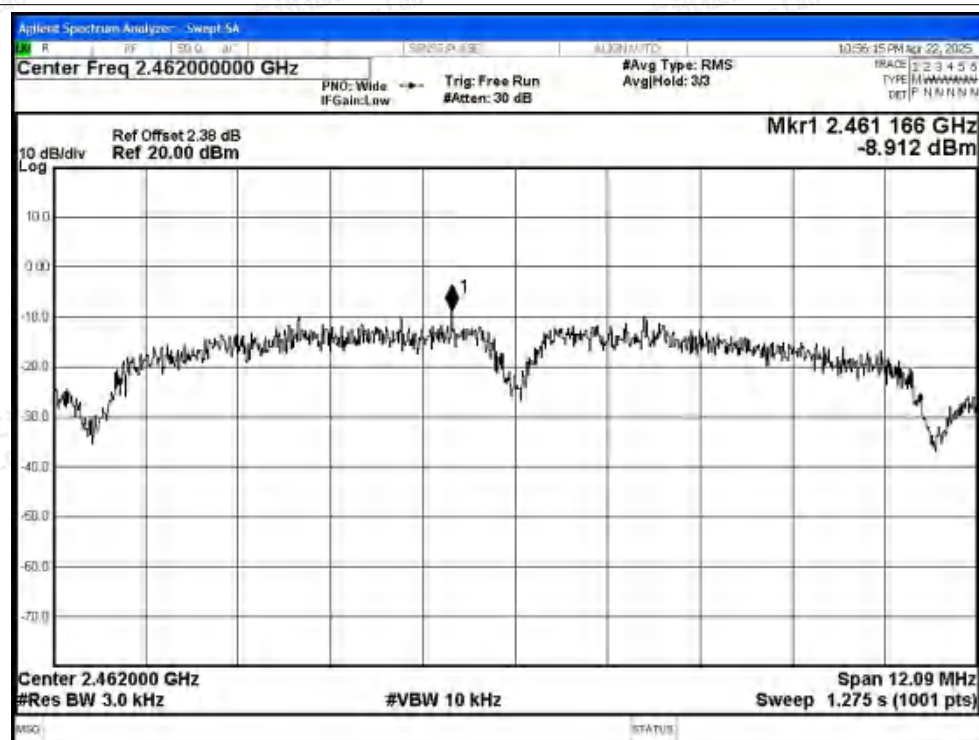


PSD NVNT b 2437MHz Ant1

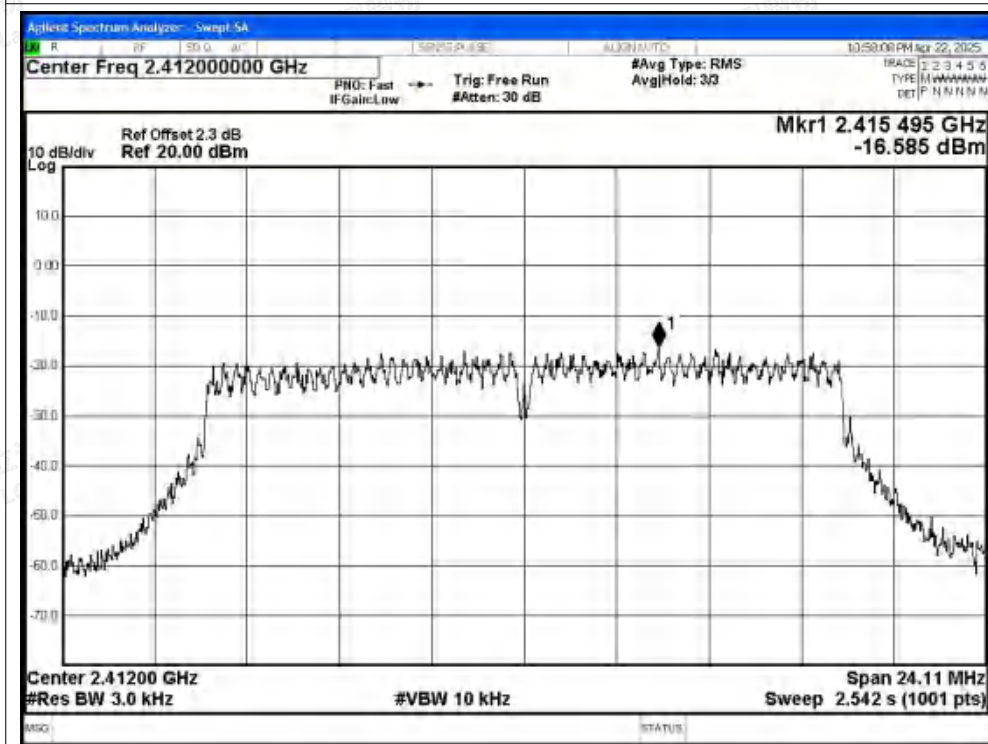




PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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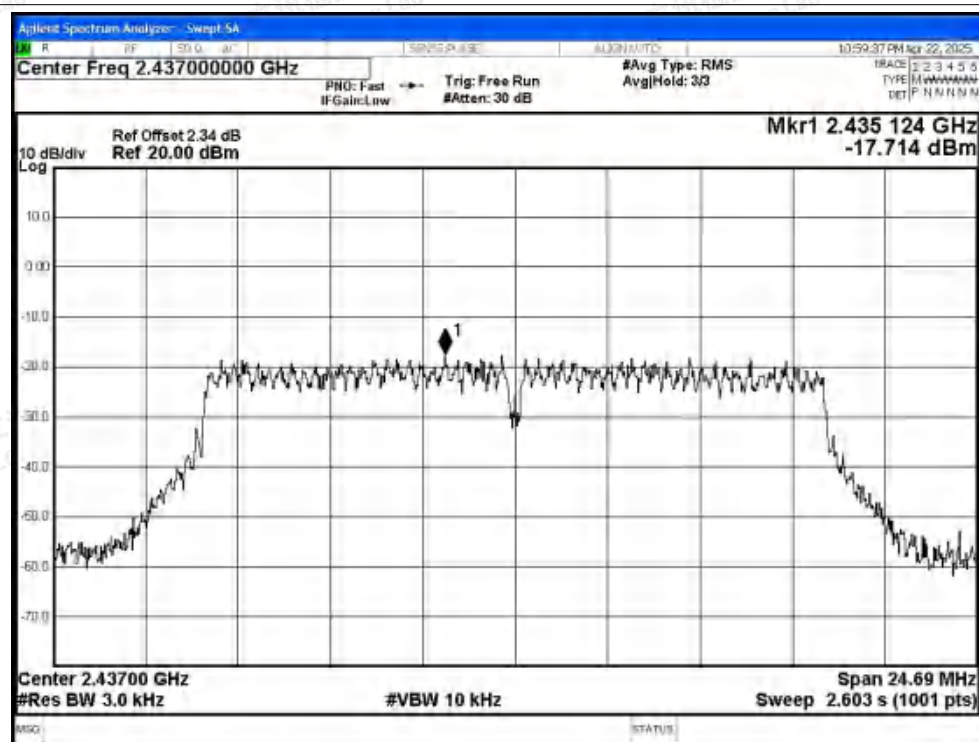
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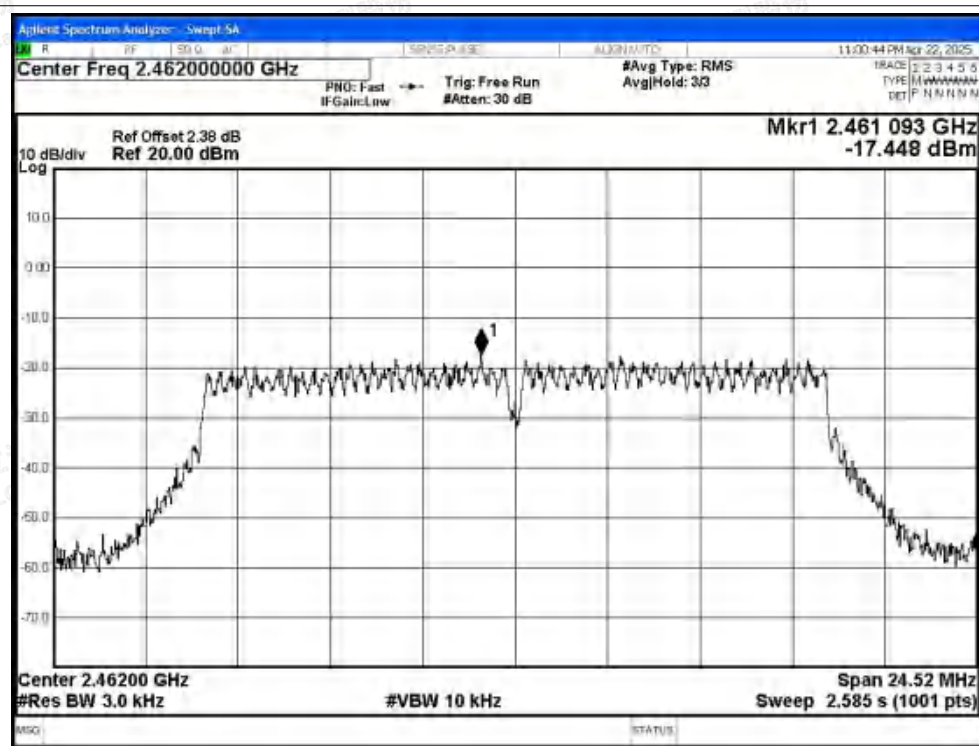
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PSD NVNT g 2437MHz Ant1

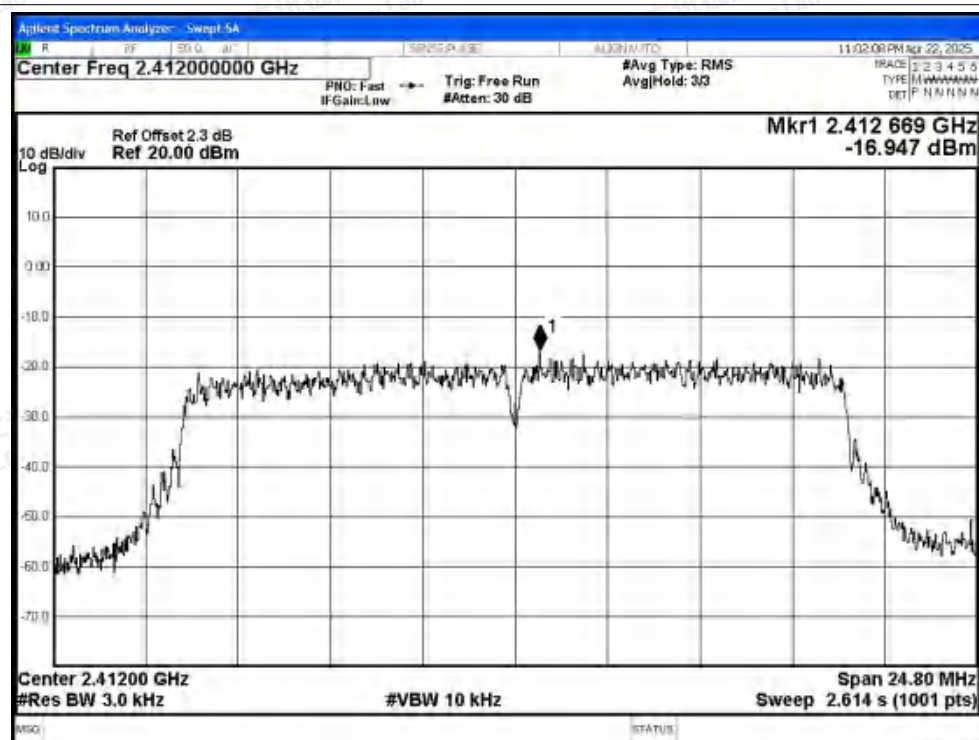


PSD NVNT g 2462MHz Ant1

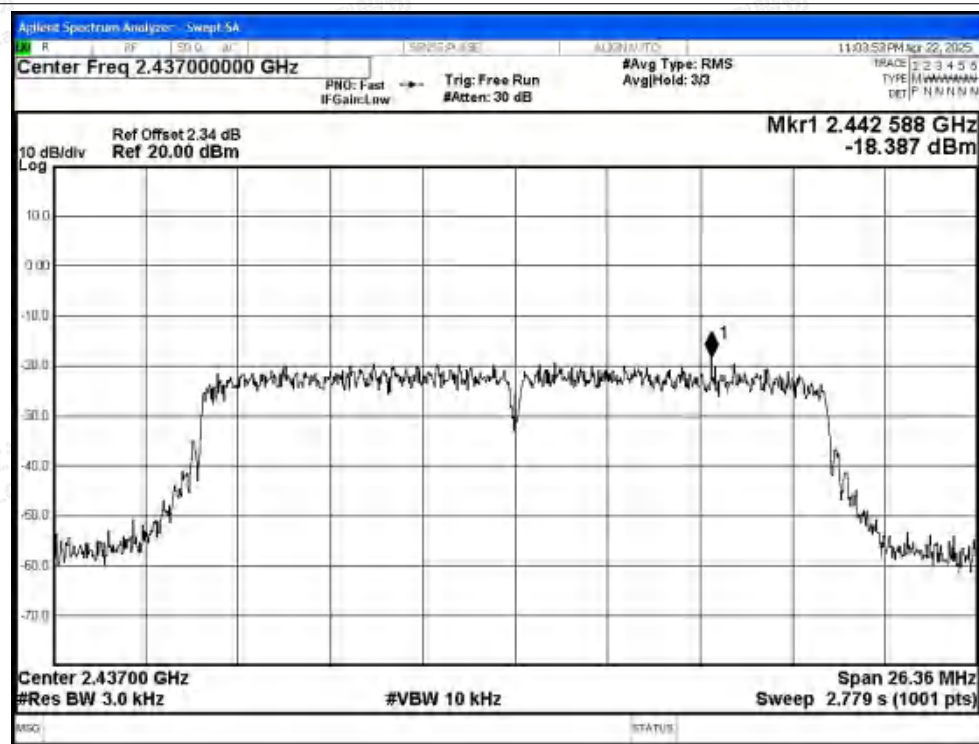




PSD NVNT n20 2412MHz Ant1

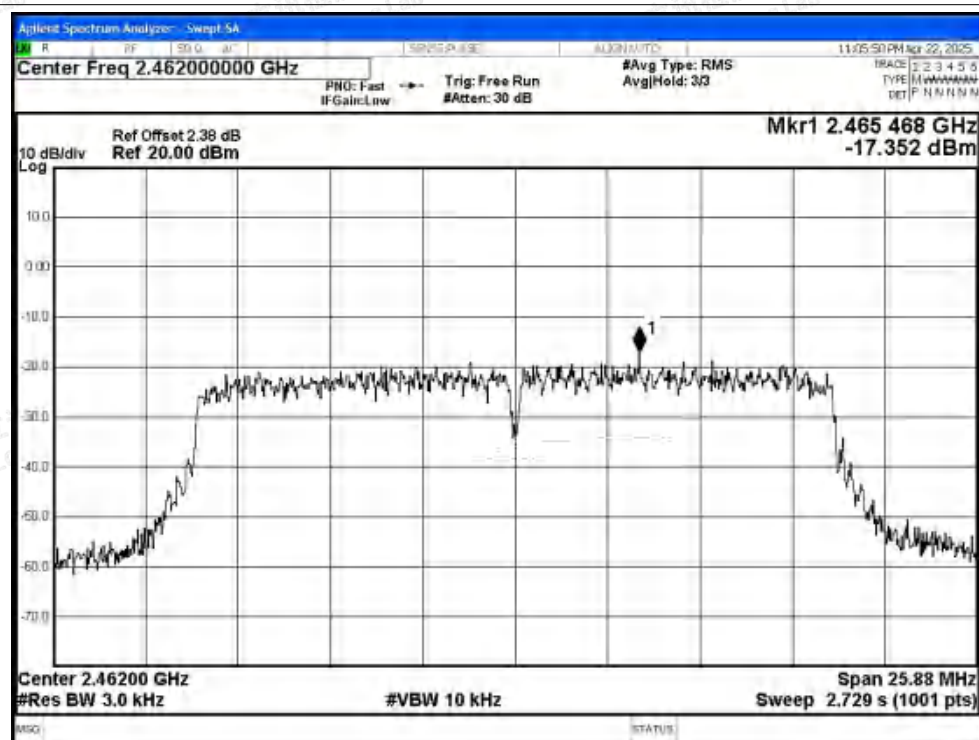


PSD NVNT n20 2437MHz Ant1

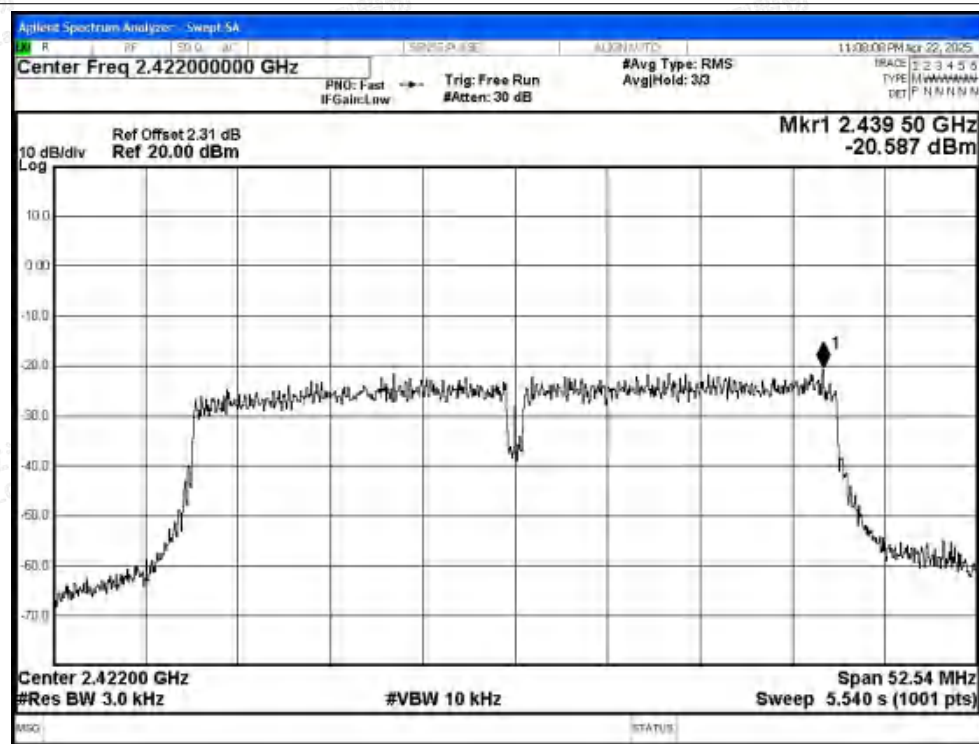




PSD NVNT n20 2462MHz Ant1

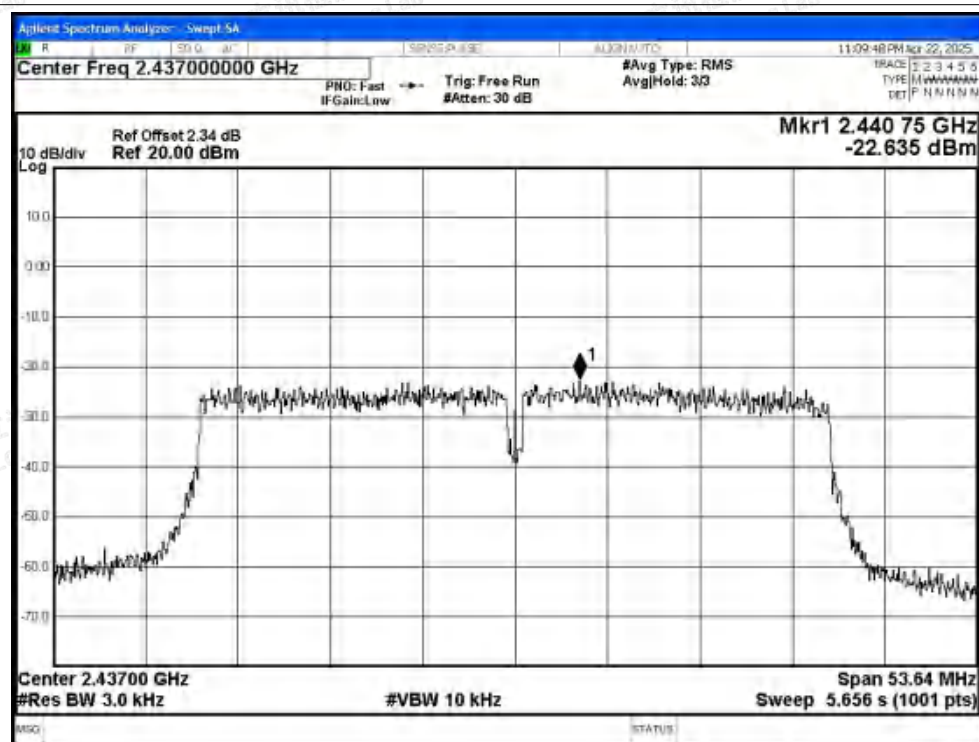


PSD NVNT n40 2422MHz Ant1

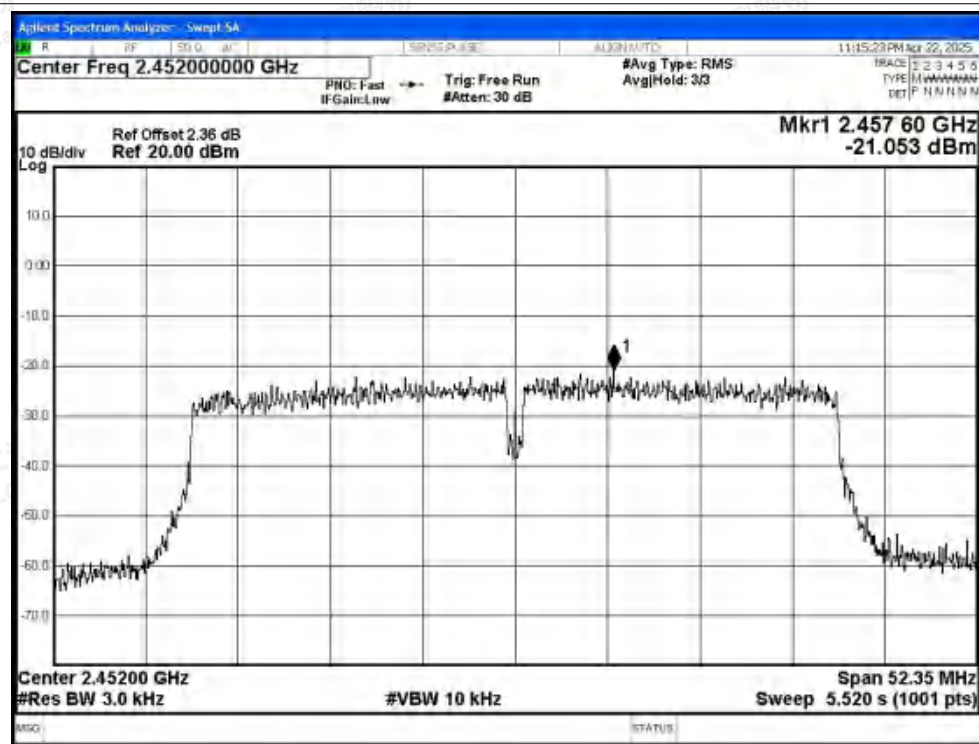


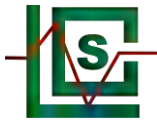


PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-45.42	-20	Pass
NVNT	b	2462	Ant0	-59.58	-20	Pass
NVNT	g	2412	Ant0	-32.24	-20	Pass
NVNT	g	2462	Ant0	-44.33	-20	Pass
NVNT	n20	2412	Ant0	-32.87	-20	Pass
NVNT	n20	2462	Ant0	-41.23	-20	Pass
NVNT	n40	2422	Ant0	-34.73	-20	Pass
NVNT	n40	2452	Ant0	-35.32	-20	Pass





Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref

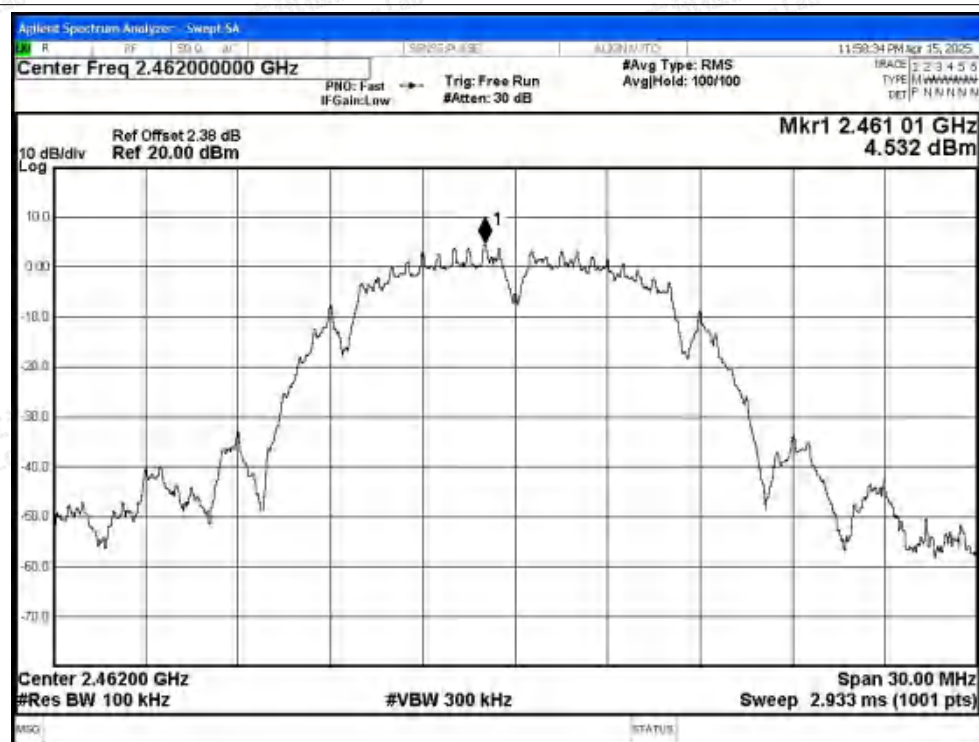


Band Edge NVNT b 2412MHz Ant0 Emission





Band Edge NVNT b 2462MHz Ant0 Ref

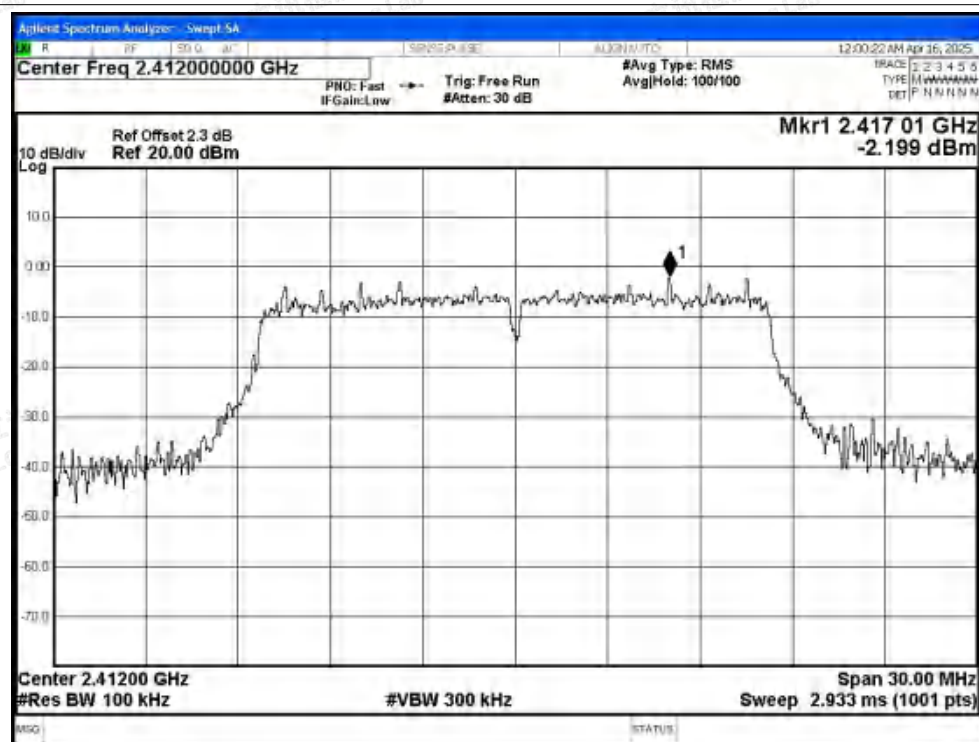


Band Edge NVNT b 2462MHz Ant0 Emission





Band Edge NVNT g 2412MHz Ant0 Ref

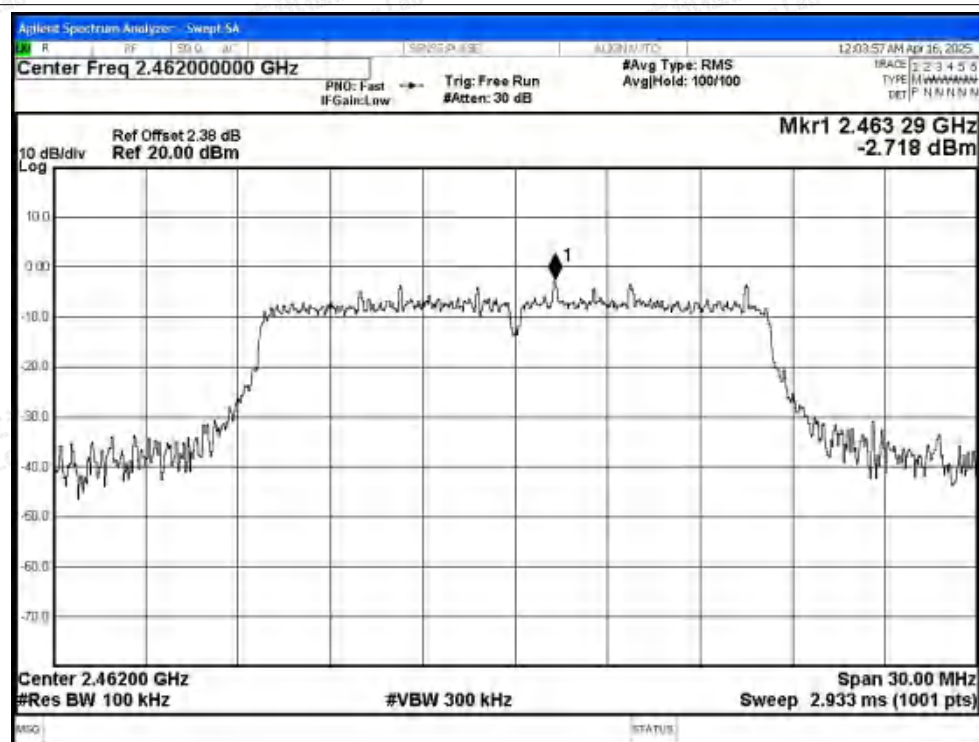


Band Edge NVNT g 2412MHz Ant0 Emission





Band Edge NVNT g 2462MHz Ant0 Ref

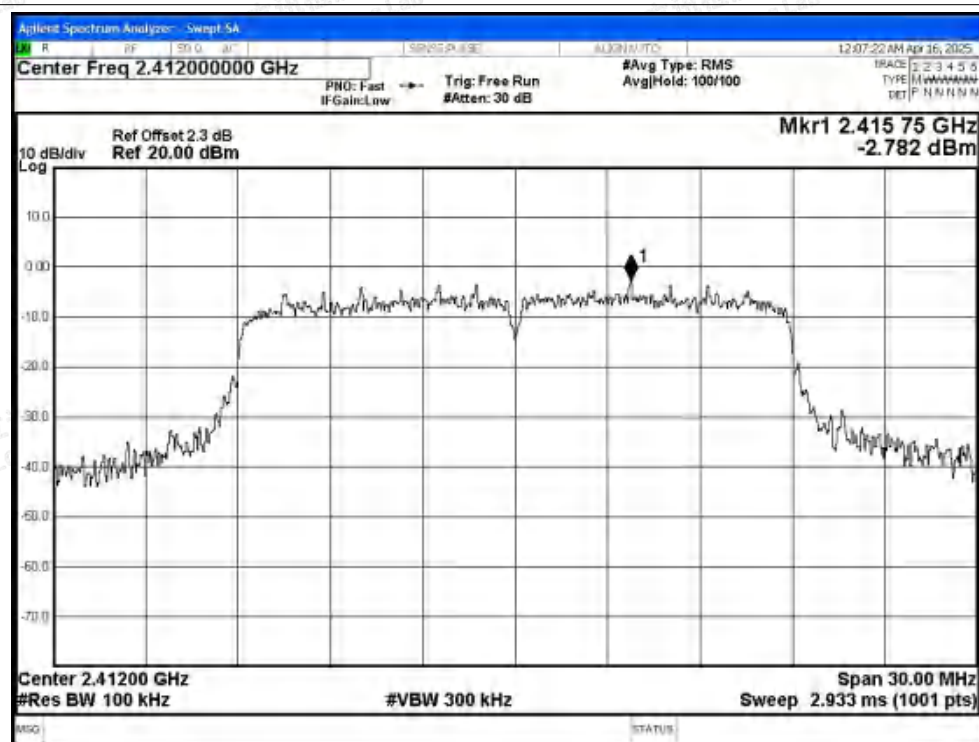


Band Edge NVNT g 2462MHz Ant0 Emission





Band Edge NVNT n20 2412MHz Ant0 Ref

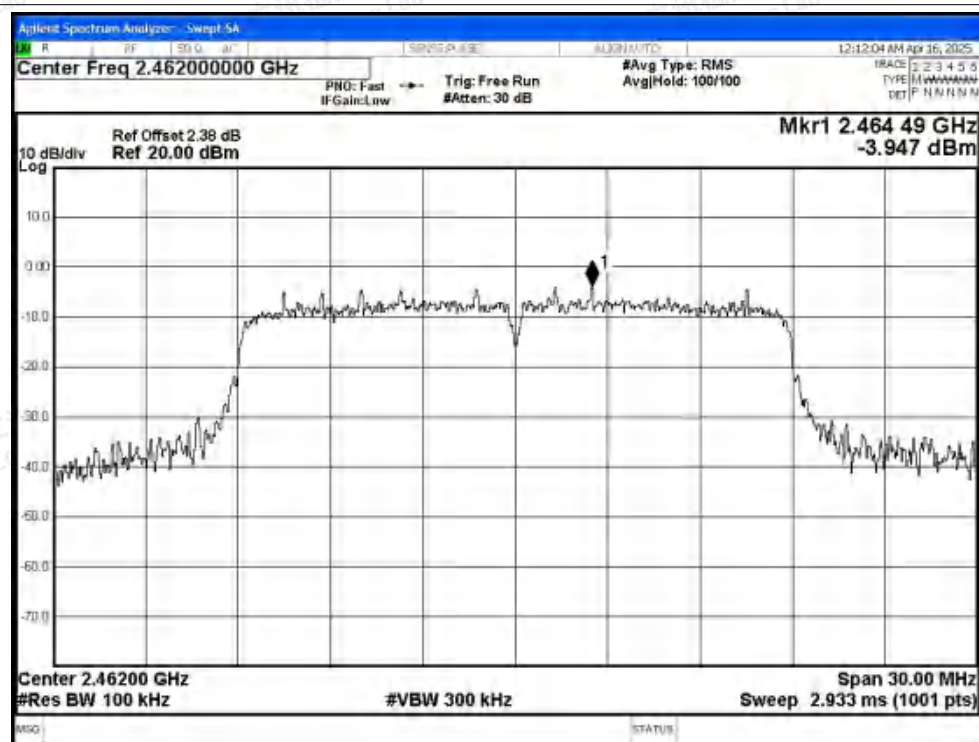


Band Edge NVNT n20 2412MHz Ant0 Emission



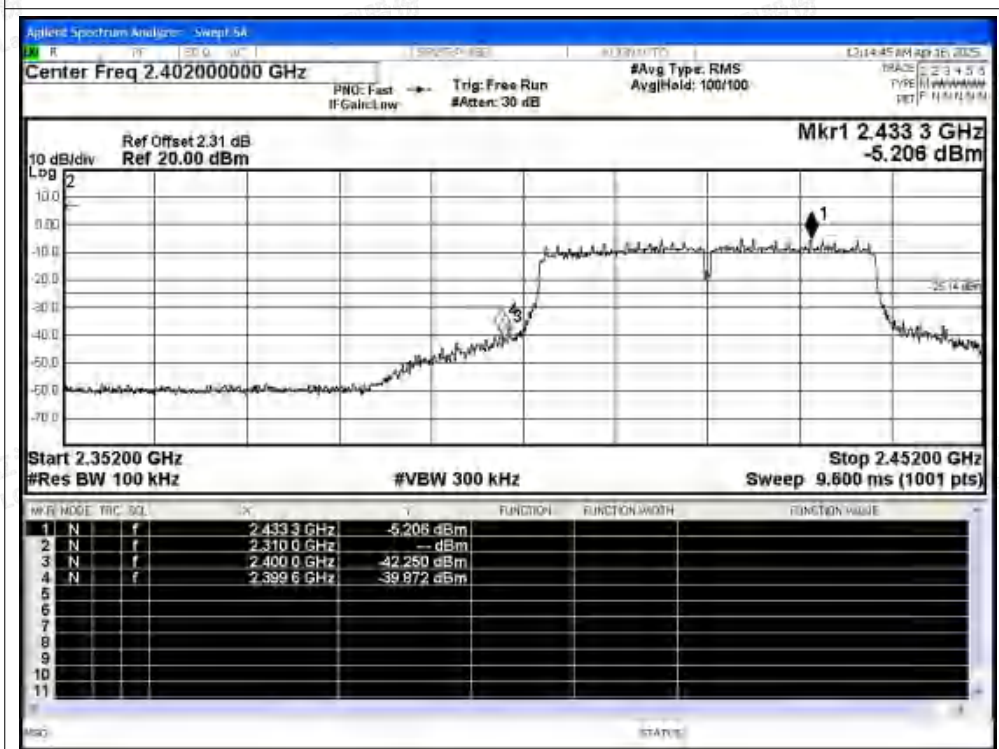
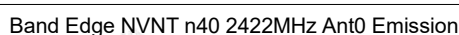


Band Edge NVNT n20 2462MHz Ant0 Ref



Band Edge NVNT n20 2462MHz Ant0 Emission

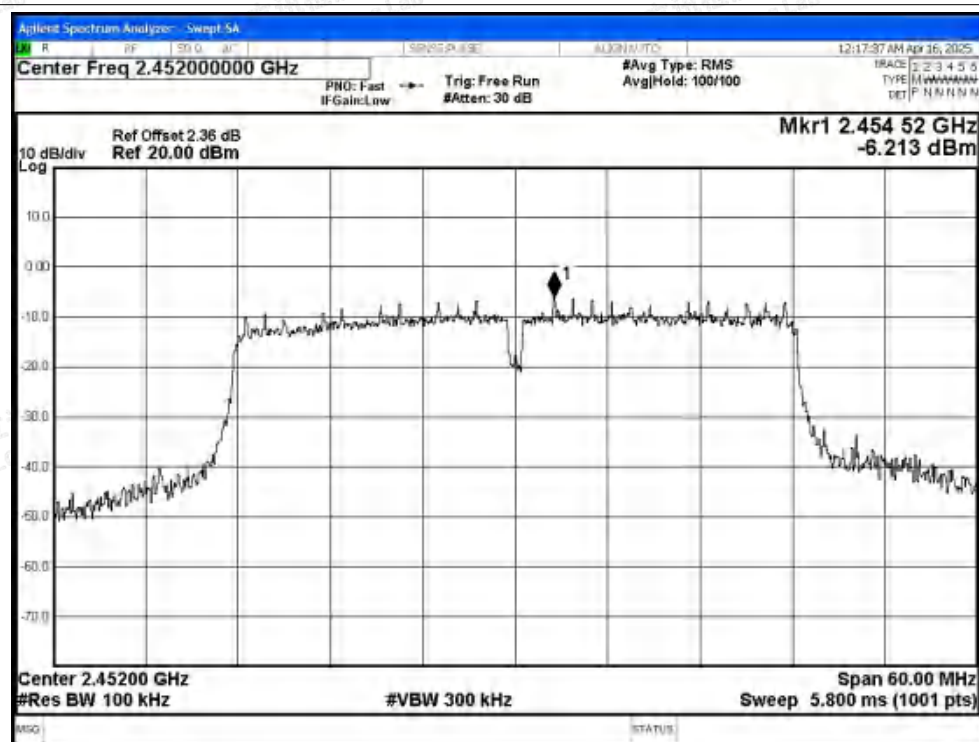




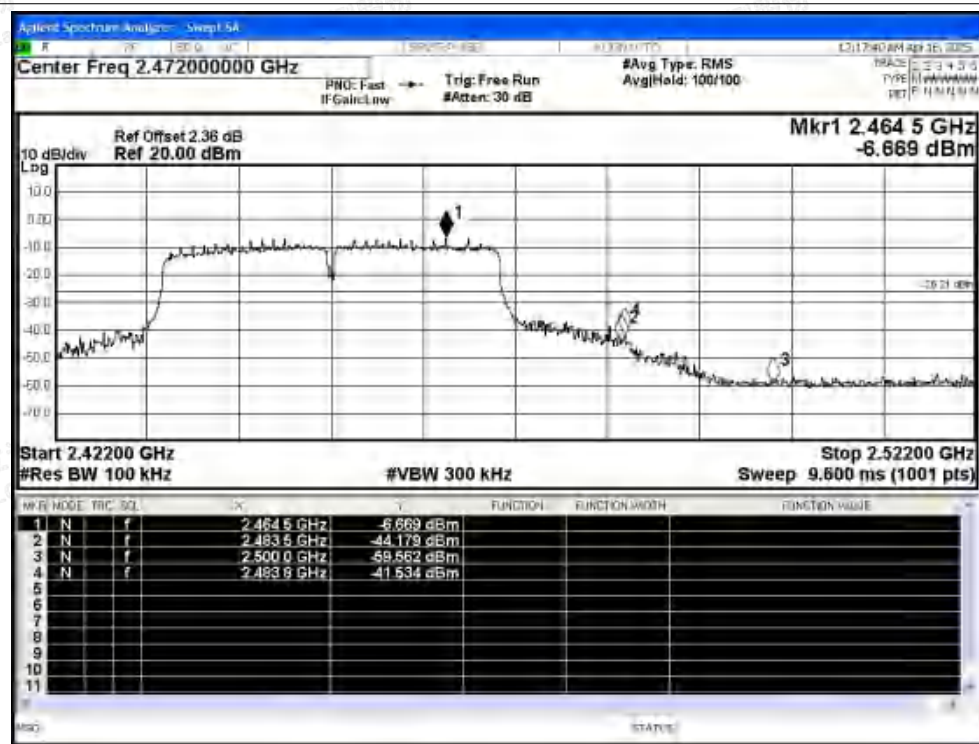
Shenzhen LCS Compliance Testing Laboratory Ltd.
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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

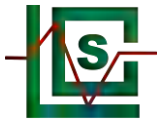


Band Edge NVNT n40 2452MHz Ant0 Ref



Band Edge NVNT n40 2452MHz Ant0 Emission





Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.02	-20	Pass
NVNT	b	2462	Ant1	-58.58	-20	Pass
NVNT	g	2412	Ant1	-31.28	-20	Pass
NVNT	g	2462	Ant1	-42.43	-20	Pass
NVNT	n20	2412	Ant1	-32.96	-20	Pass
NVNT	n20	2462	Ant1	-37.26	-20	Pass
NVNT	n40	2422	Ant1	-35.07	-20	Pass
NVNT	n40	2452	Ant1	-37	-20	Pass



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Scan code to check authenticity



Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission





Band Edge NVNT b 2462MHz Ant1 Ref

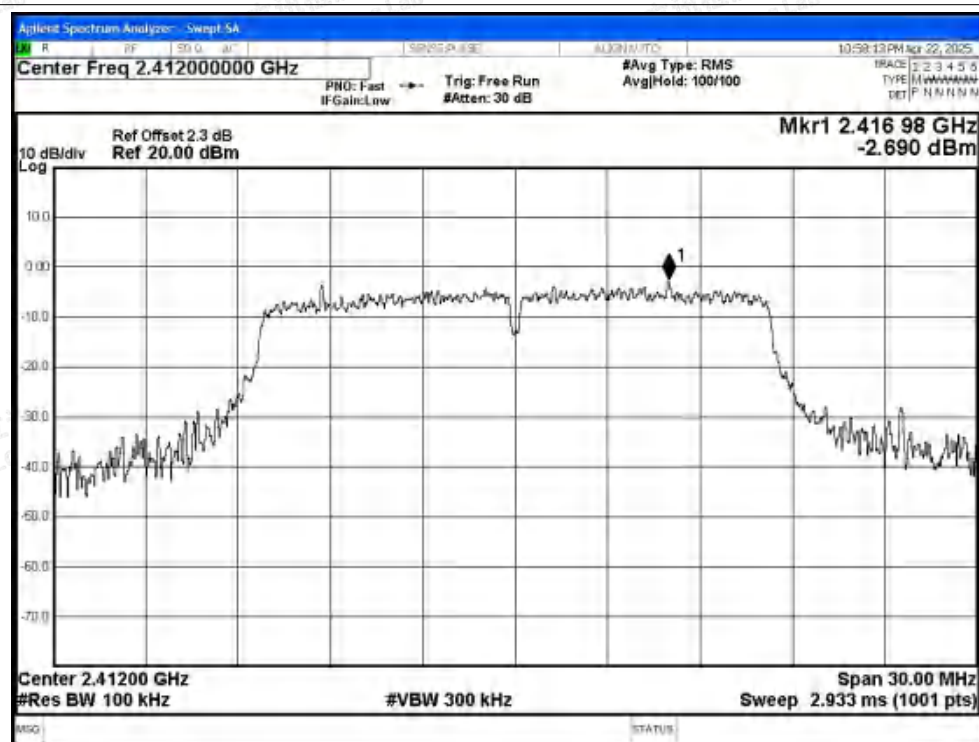


Band Edge NVNT b 2462MHz Ant1 Emission





Band Edge NVNT g 2412MHz Ant1 Ref

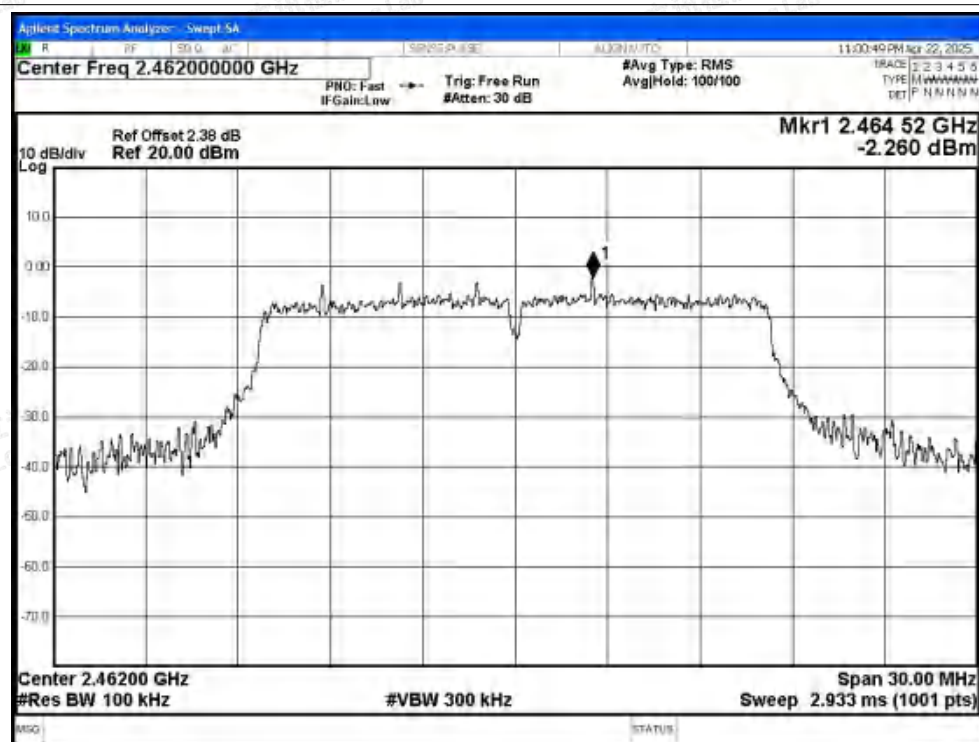


Band Edge NVNT g 2412MHz Ant1 Emission





Band Edge NVNT g 2462MHz Ant1 Ref

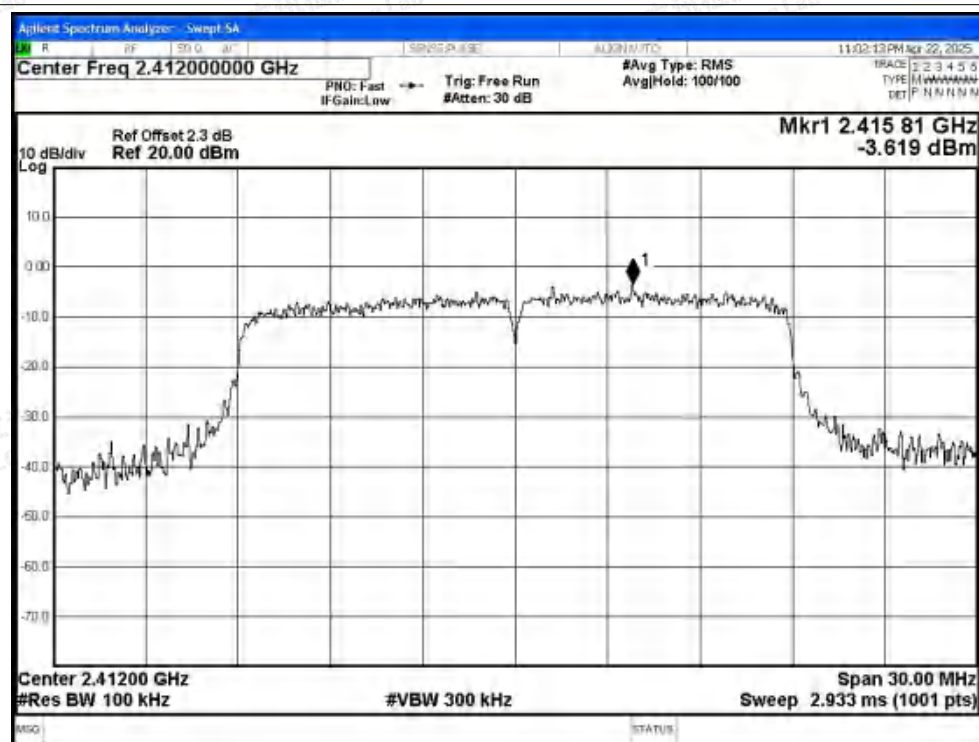


Band Edge NVNT g 2462MHz Ant1 Emission





Band Edge NVNT n20 2412MHz Ant1 Ref

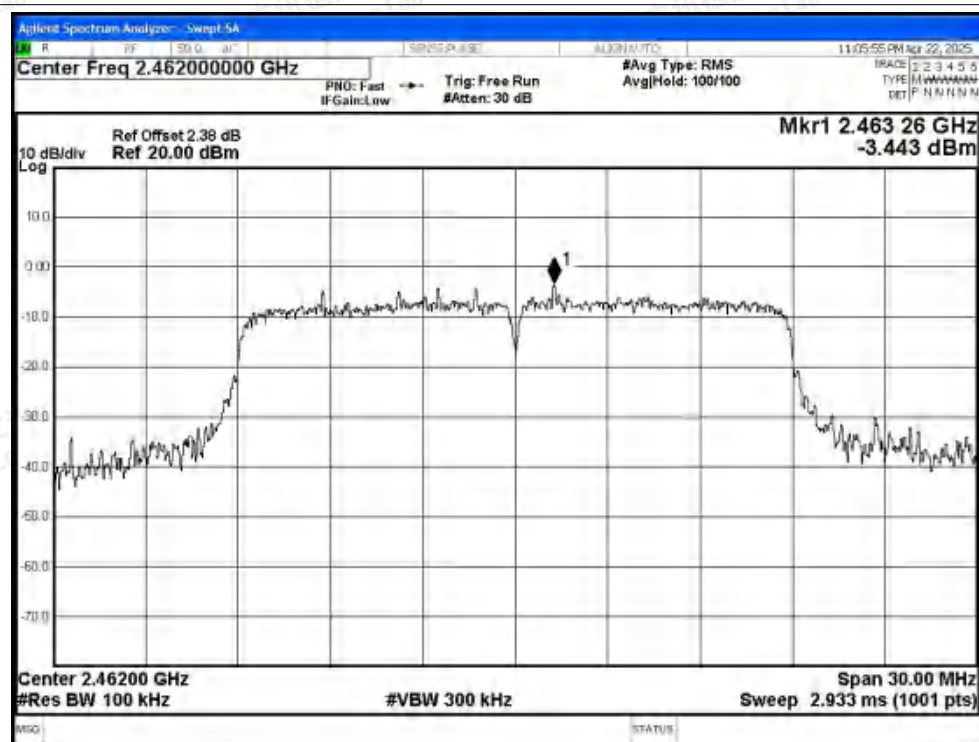


Band Edge NVNT n20 2412MHz Ant1 Emission





Band Edge NVNT n20 2462MHz Ant1 Ref

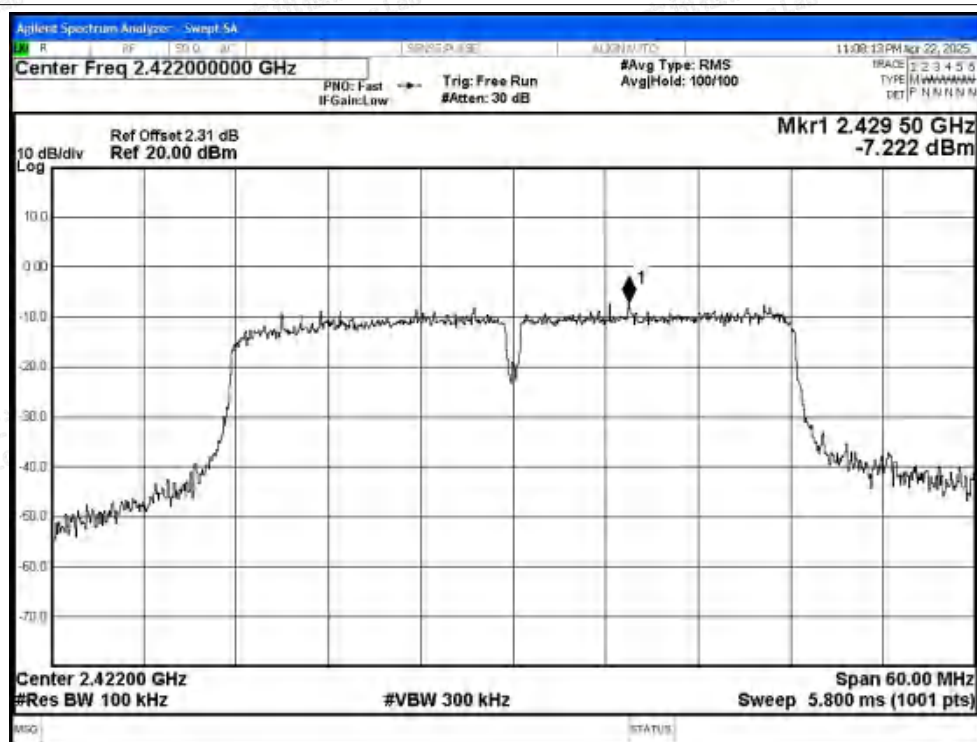


Band Edge NVNT n20 2462MHz Ant1 Emission

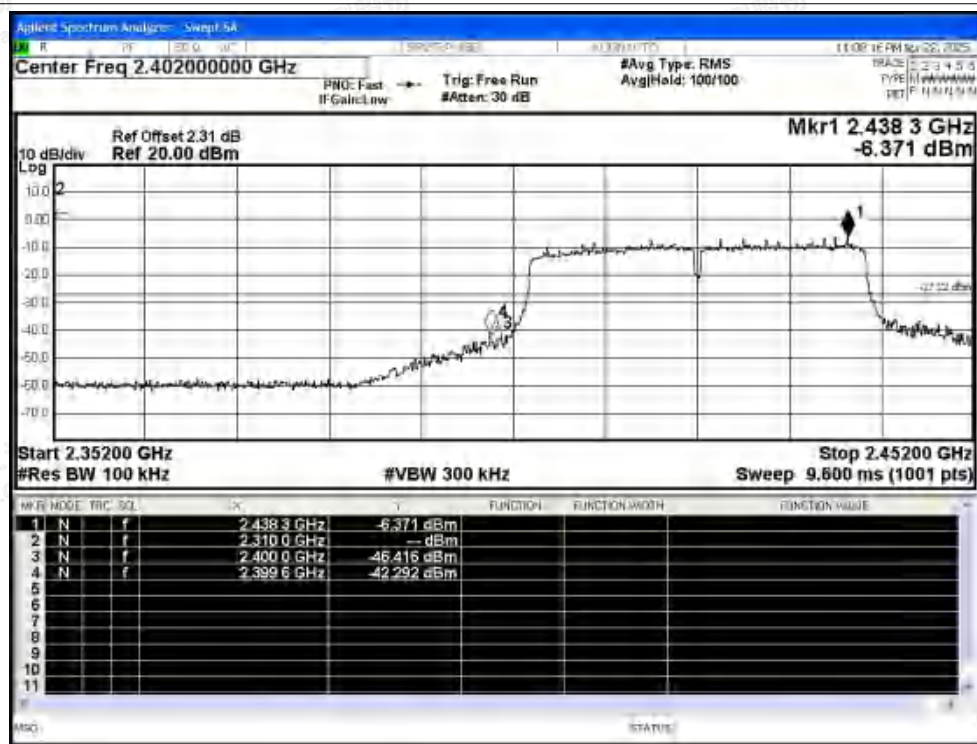




Band Edge NVNT n40 2422MHz Ant1 Ref

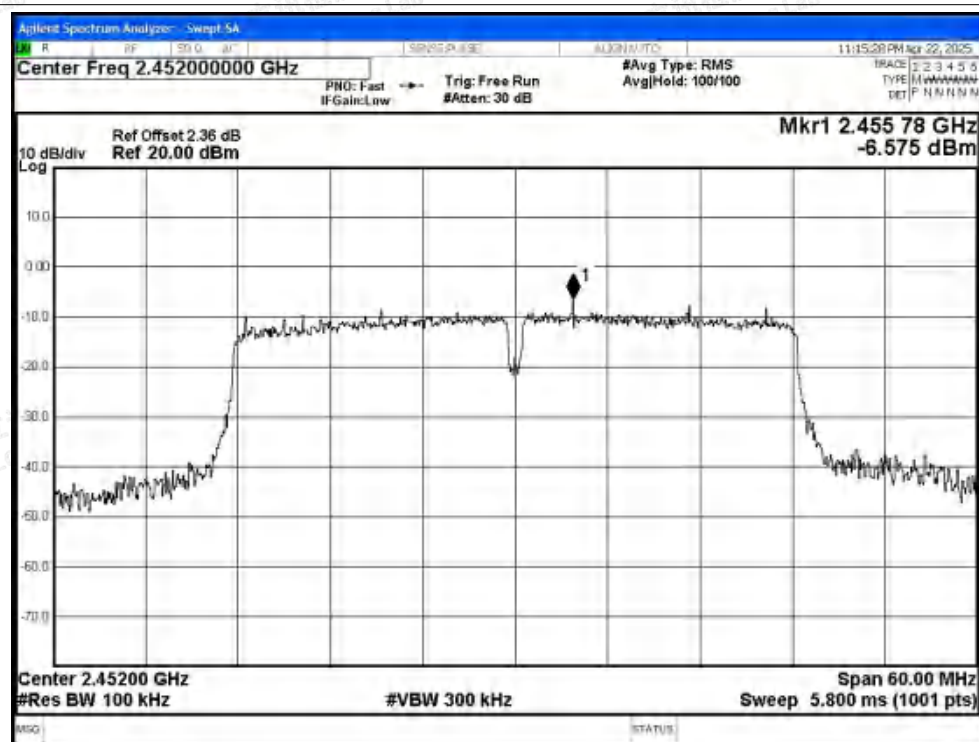


Band Edge NVNT n40 2422MHz Ant1 Emission

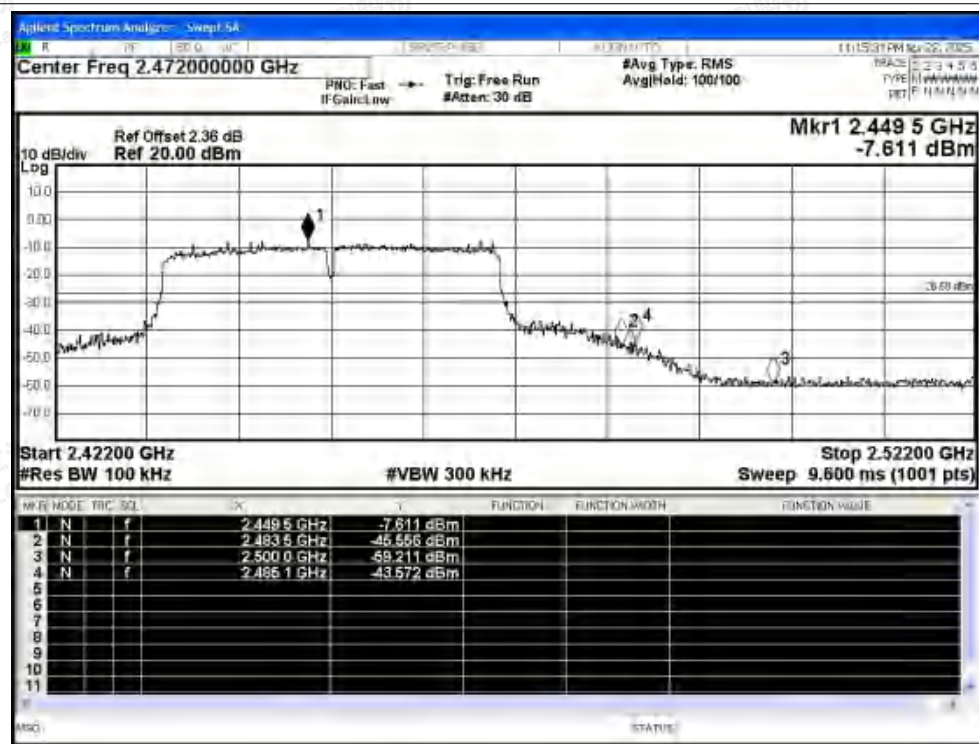


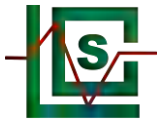


Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission





C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-50.79	-20	Pass
NVNT	b	2437	Ant0	-50.75	-20	Pass
NVNT	b	2462	Ant0	-48.01	-20	Pass
NVNT	g	2412	Ant0	-42.62	-20	Pass
NVNT	g	2437	Ant0	-43.81	-20	Pass
NVNT	g	2462	Ant0	-42.78	-20	Pass
NVNT	n20	2412	Ant0	-43.43	-20	Pass
NVNT	n20	2437	Ant0	-41.96	-20	Pass
NVNT	n20	2462	Ant0	-42.11	-20	Pass
NVNT	n40	2422	Ant0	-41.17	-20	Pass
NVNT	n40	2437	Ant0	-38.16	-20	Pass
NVNT	n40	2452	Ant0	-39.8	-20	Pass



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Scan code to check authenticity

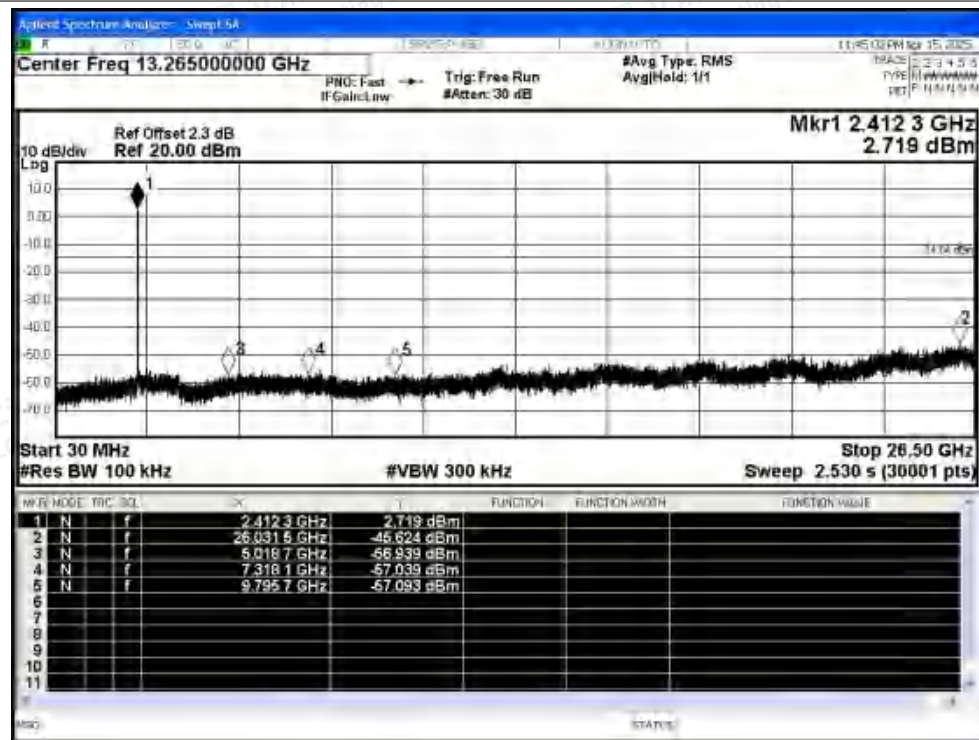


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant0 Ref



Tx. Spurious NVNT b 2412MHz Ant0 Emission

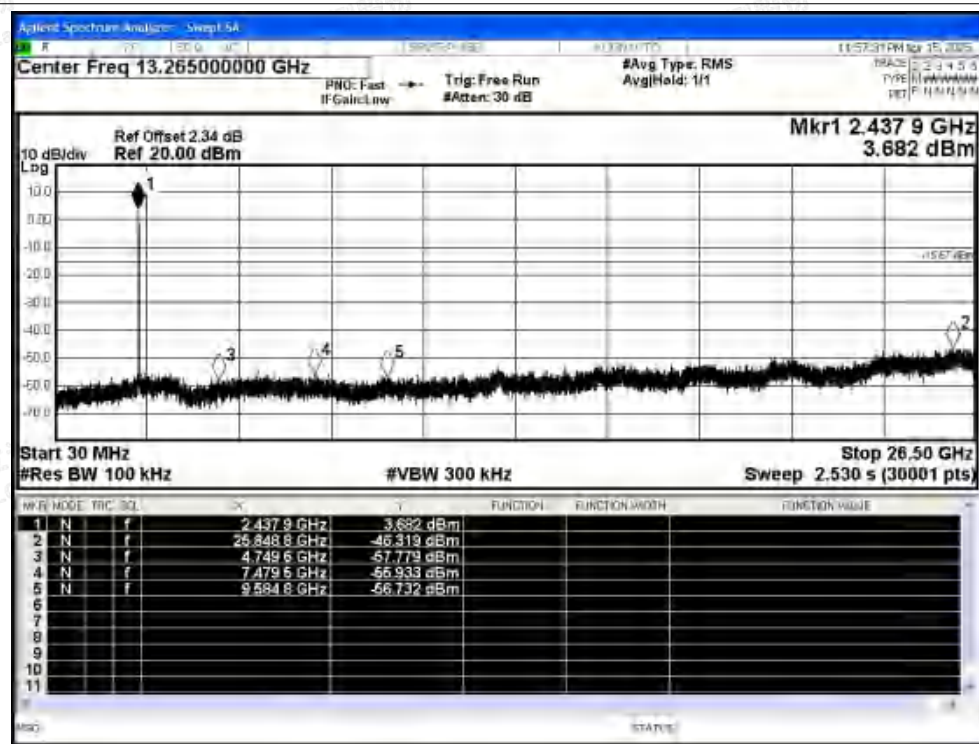




Tx. Spurious NVNT b 2437MHz Ant0 Ref



Tx. Spurious NVNT b 2437MHz Ant0 Emission

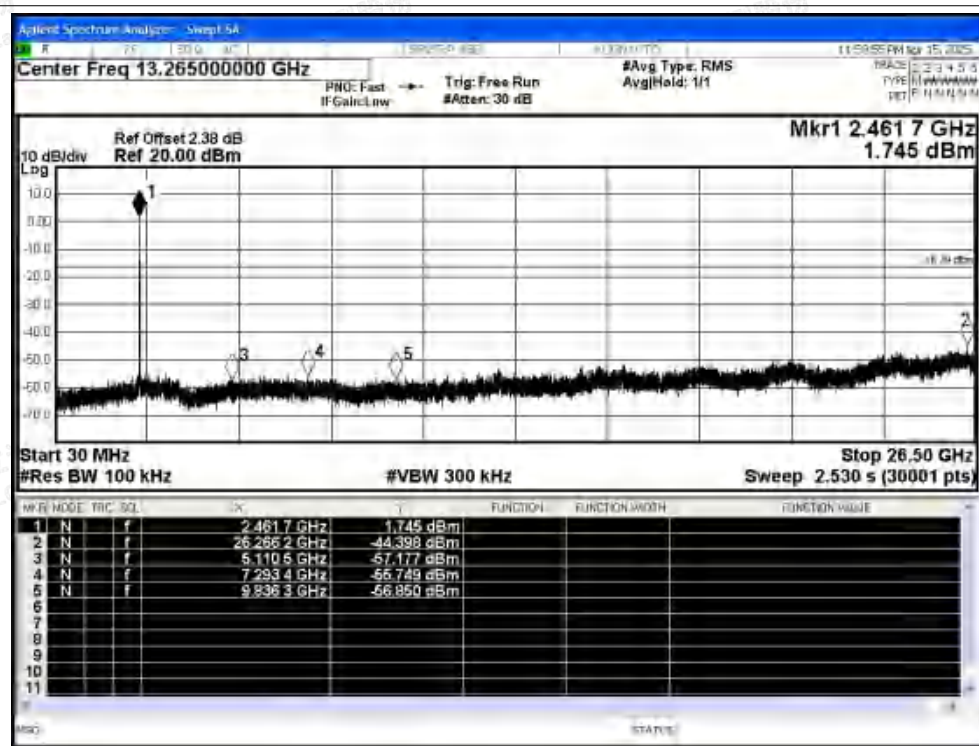




Tx. Spurious NVNT b 2462MHz Ant0 Ref

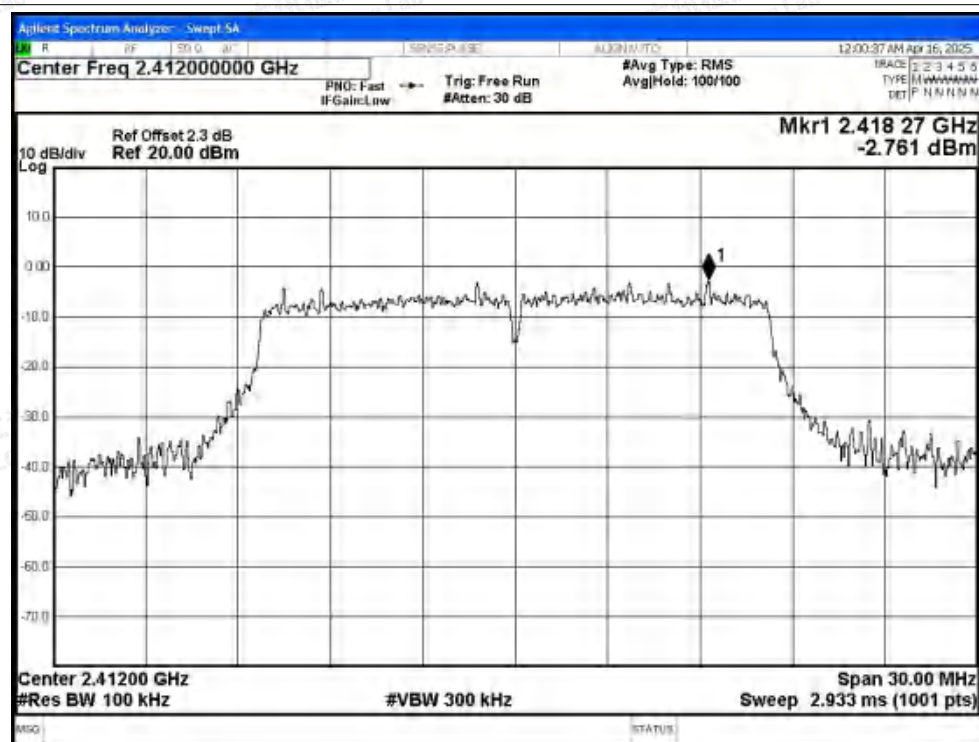


Tx. Spurious NVNT b 2462MHz Ant0 Emission

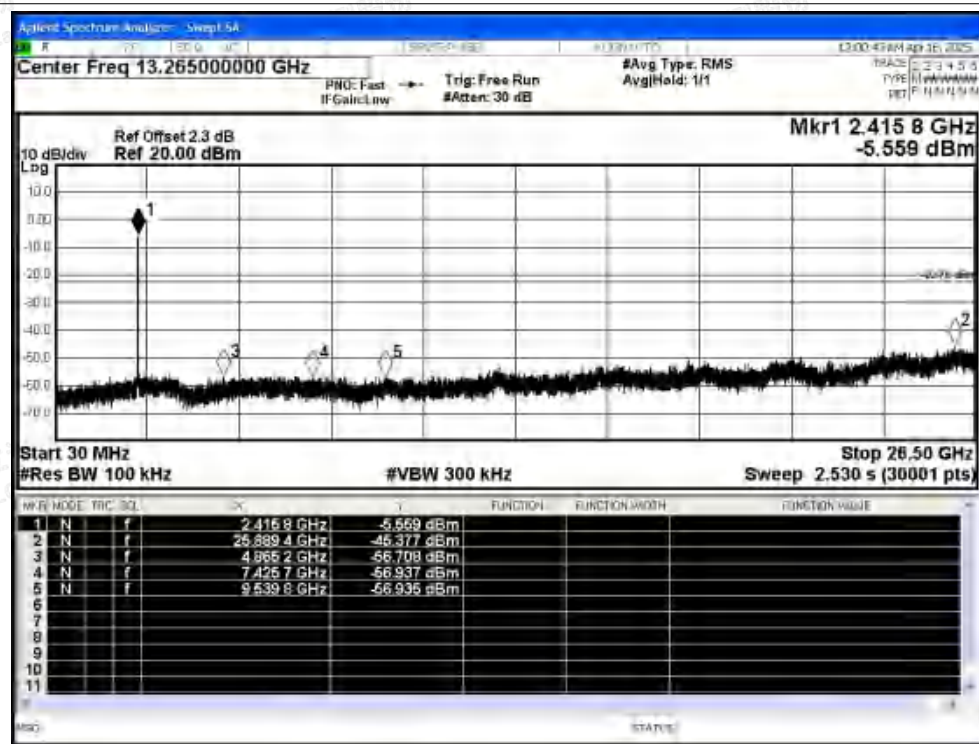




Tx. Spurious NVNT g 2412MHz Ant0 Ref

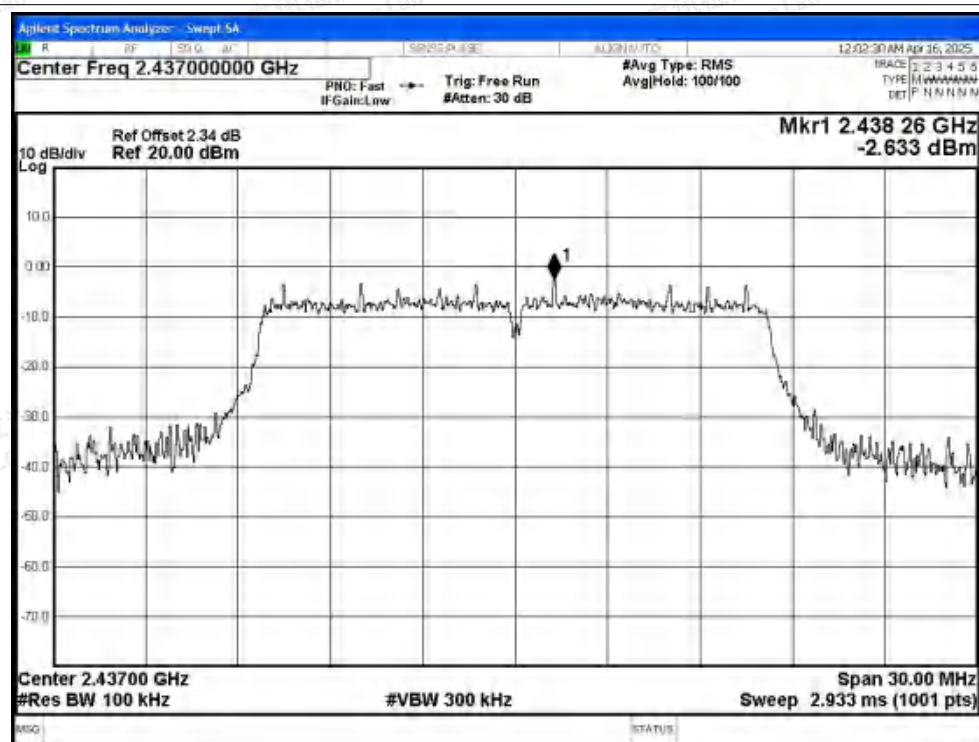


Tx. Spurious NVNT g 2412MHz Ant0 Emission

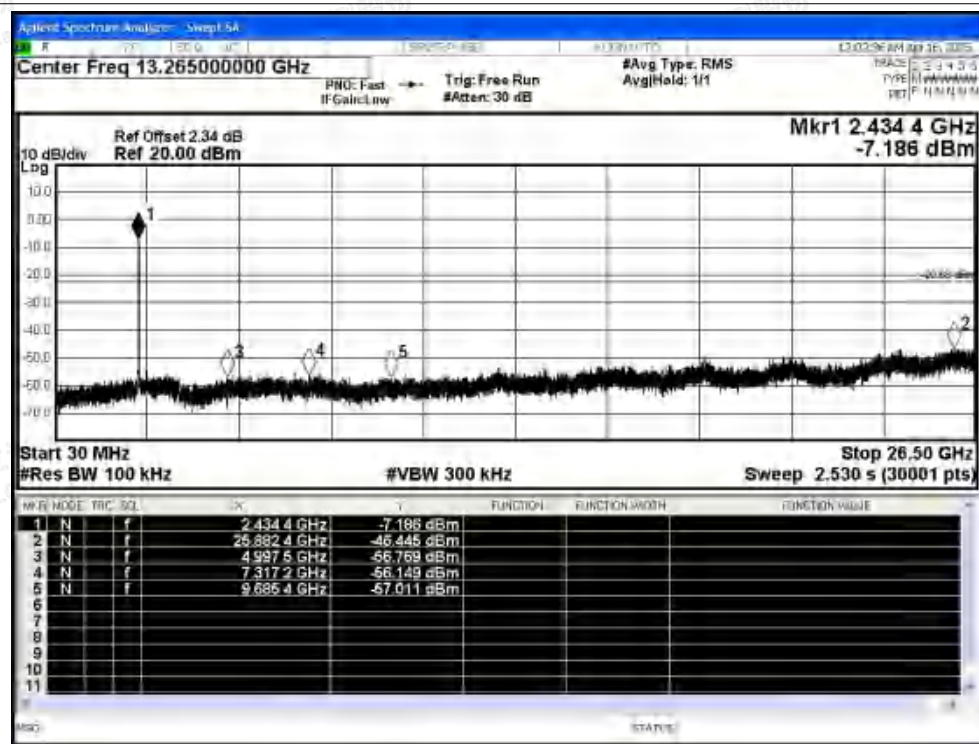




Tx. Spurious NVNT g 2437MHz Ant0 Ref

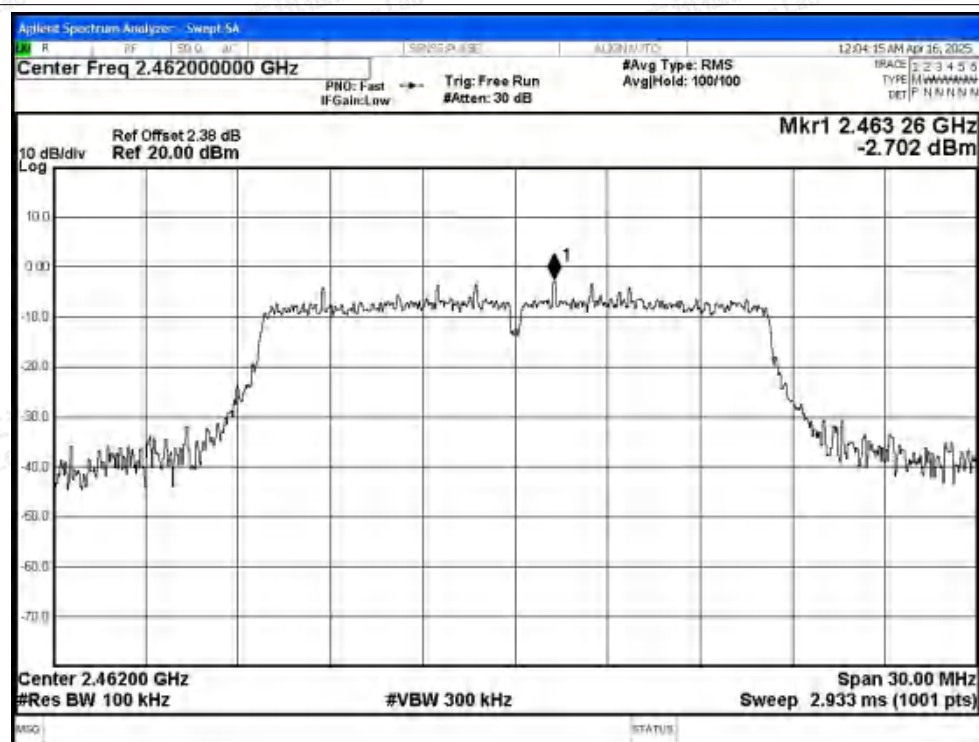


Tx. Spurious NVNT g 2437MHz Ant0 Emission

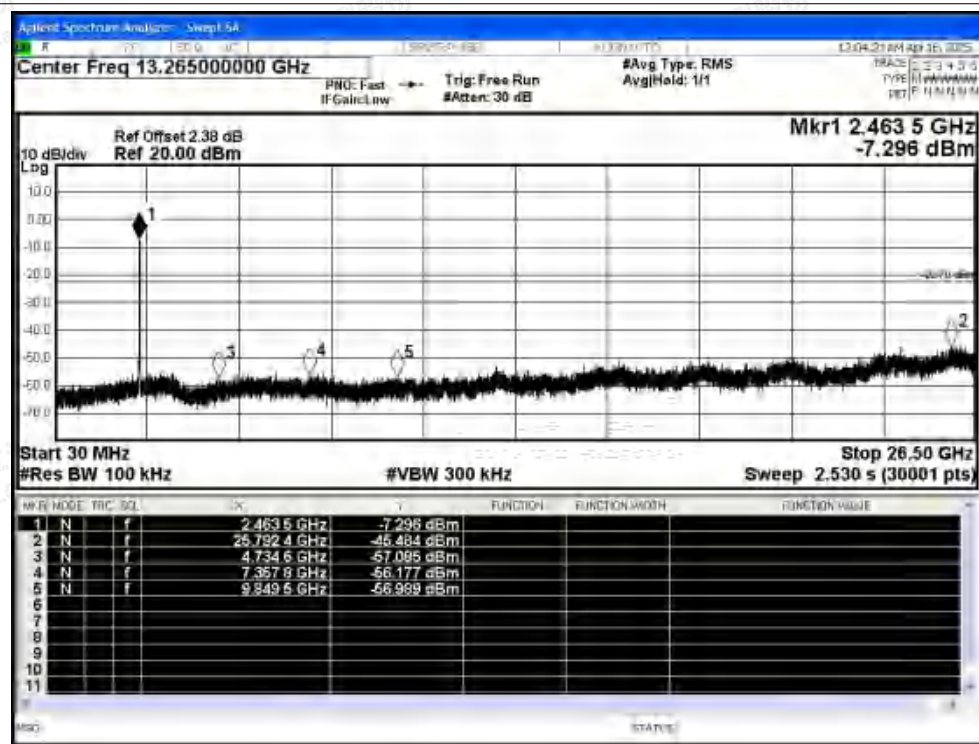




Tx. Spurious NVNT g 2462MHz Ant0 Ref

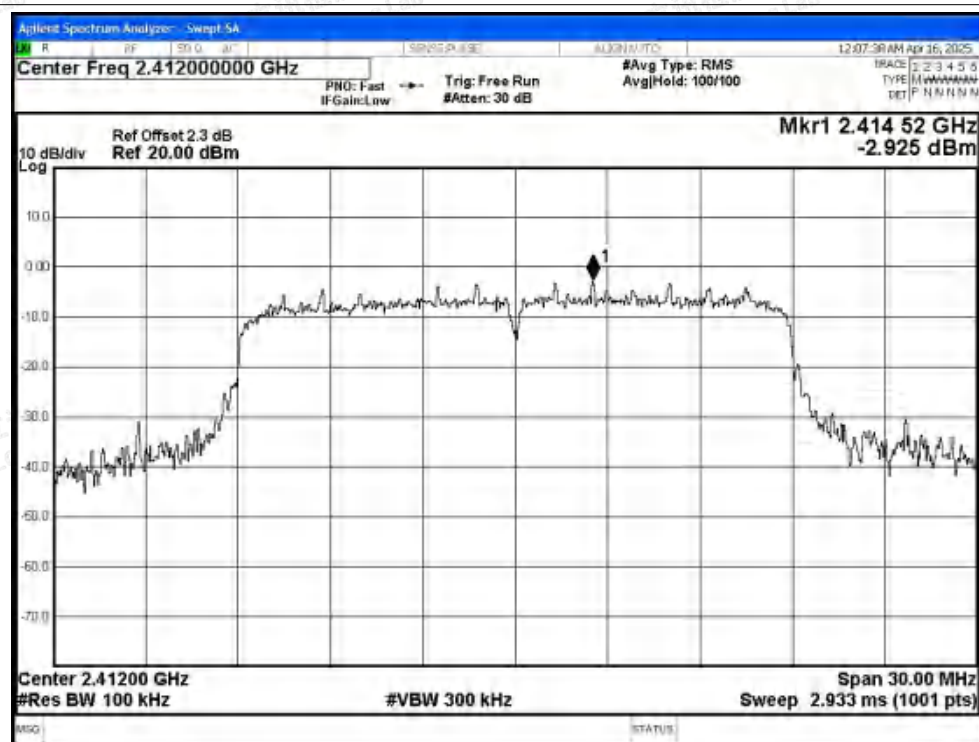


Tx. Spurious NVNT g 2462MHz Ant0 Emission

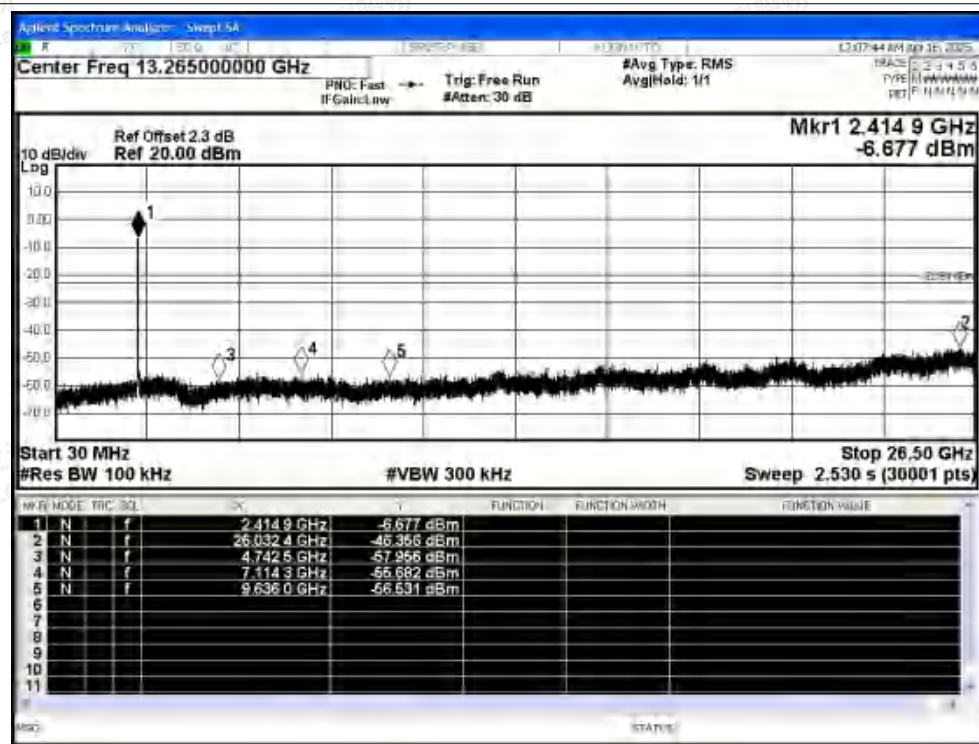




Tx. Spurious NVNT n20 2412MHz Ant0 Ref

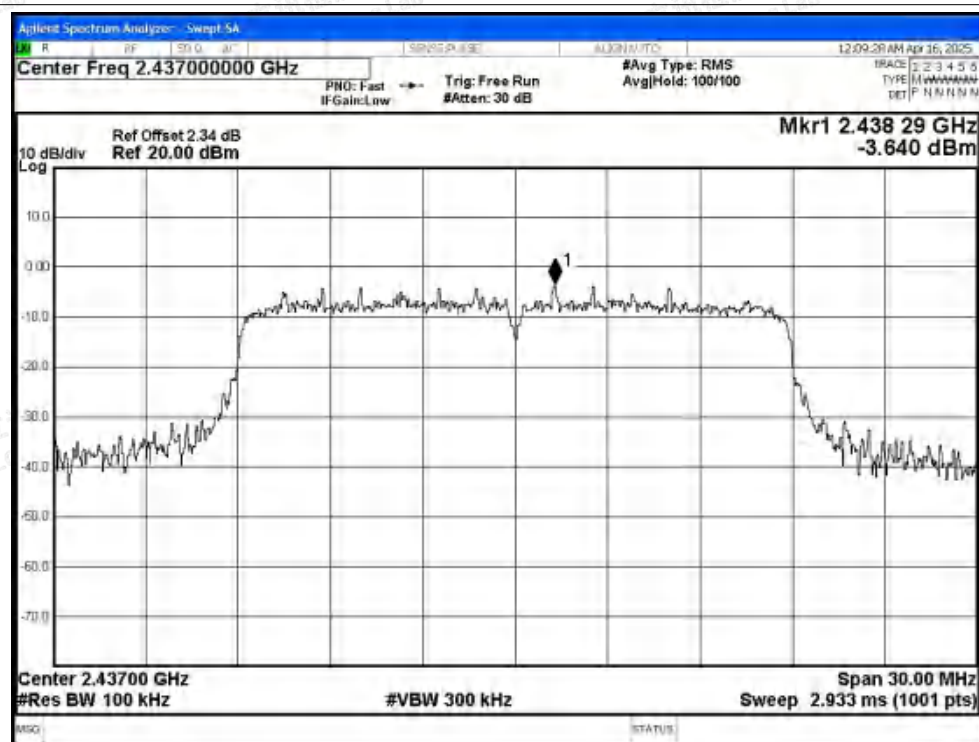


Tx. Spurious NVNT n20 2412MHz Ant0 Emission

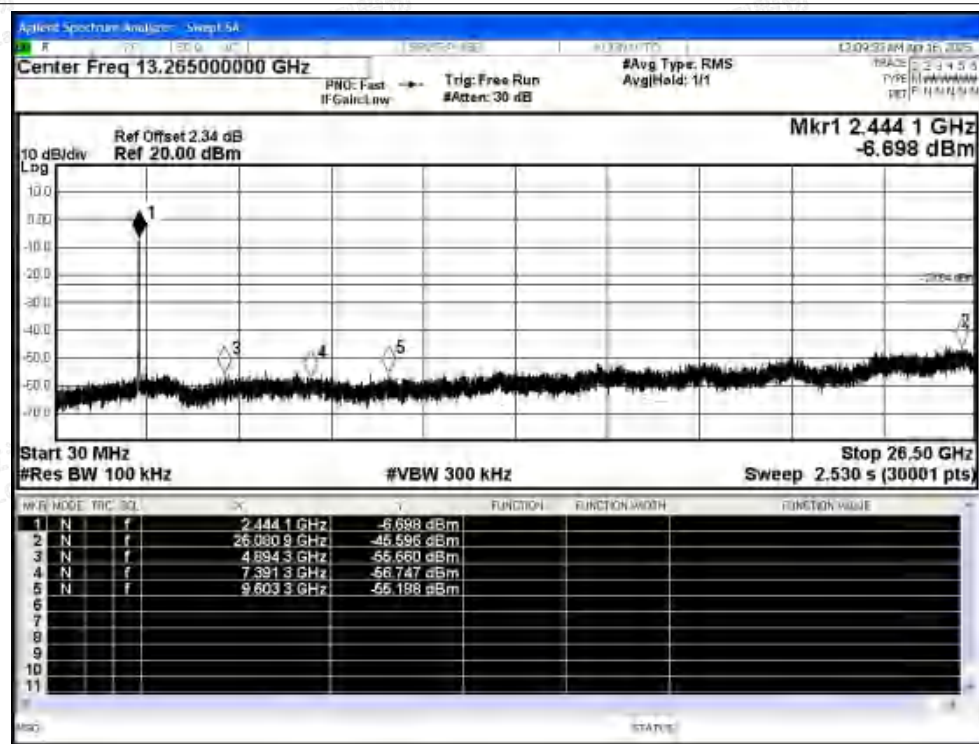




Tx. Spurious NVNT n20 2437MHz Ant0 Ref

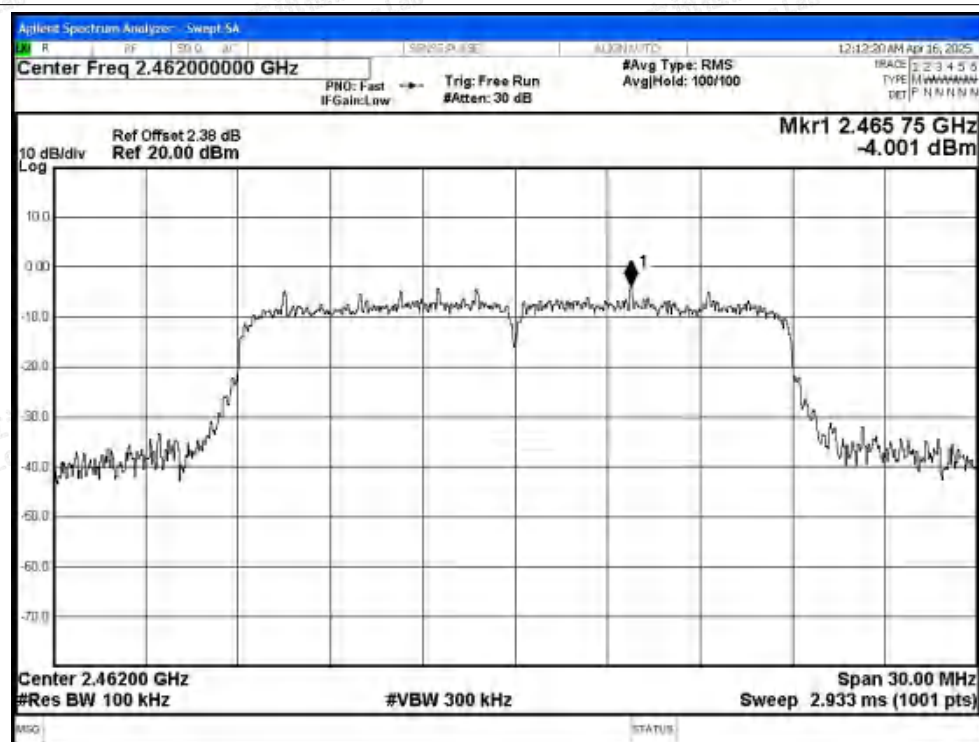


Tx. Spurious NVNT n20 2437MHz Ant0 Emission

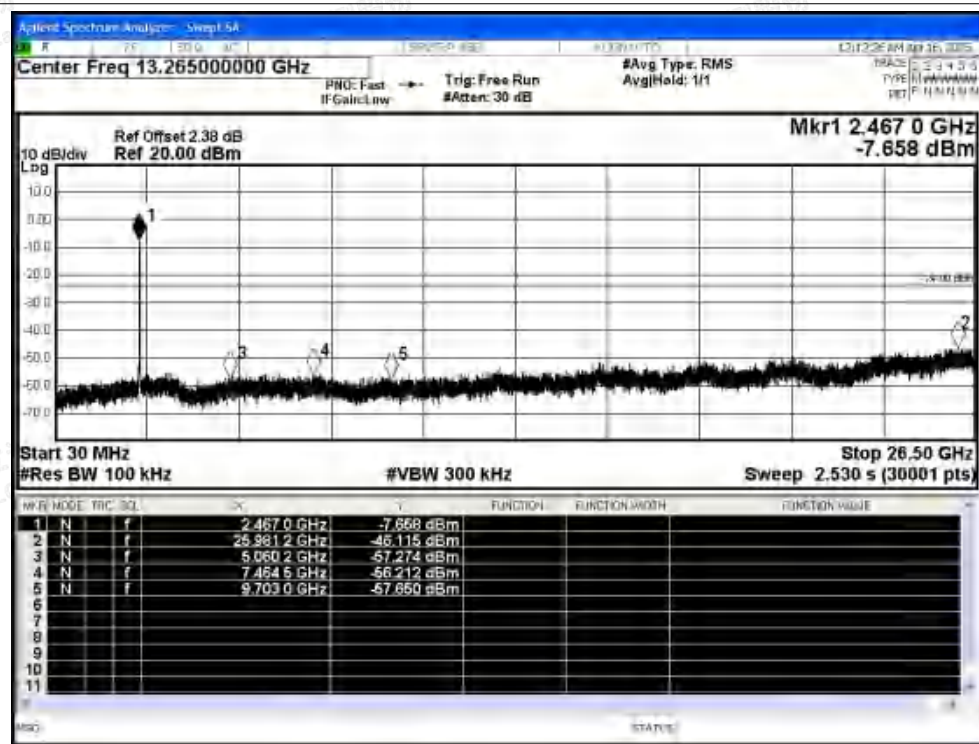




Tx. Spurious NVNT n20 2462MHz Ant0 Ref

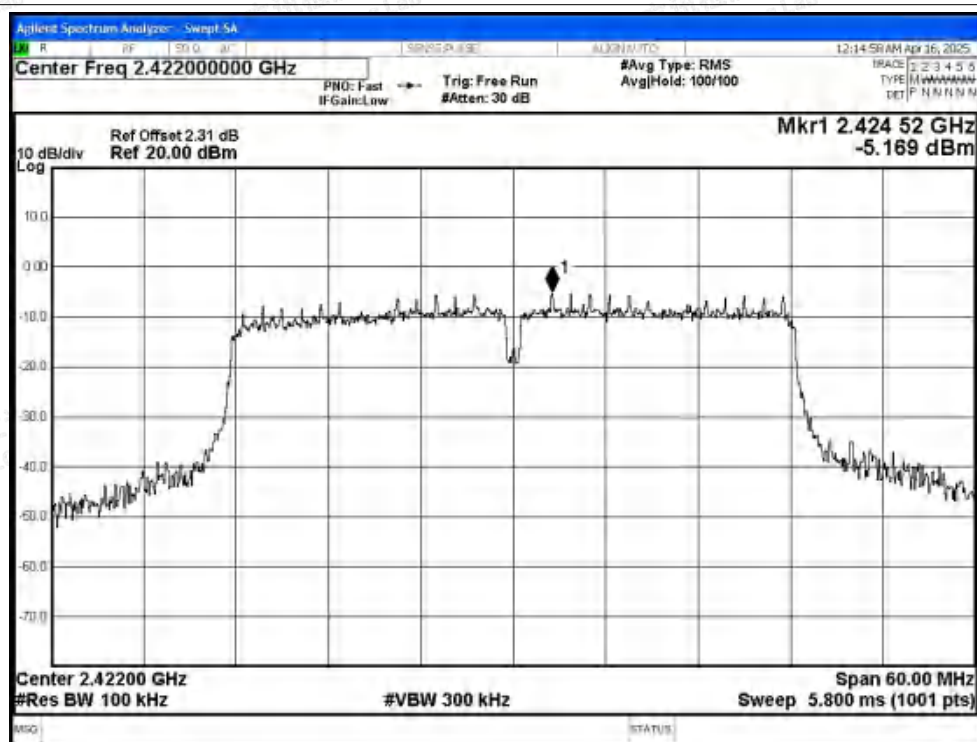


Tx. Spurious NVNT n20 2462MHz Ant0 Emission

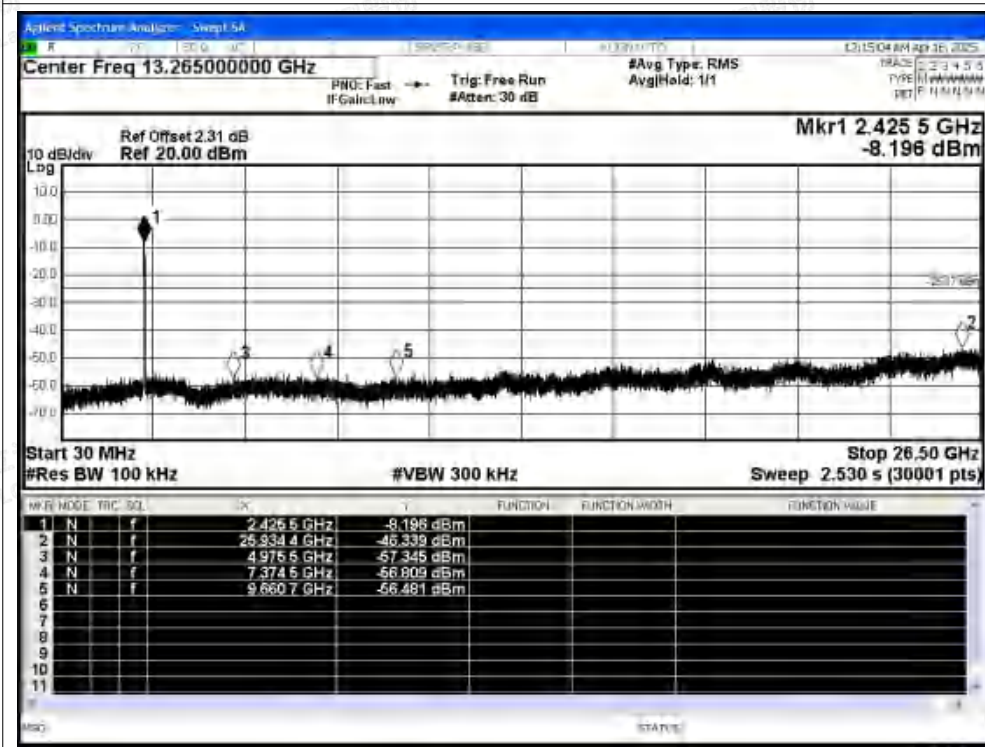




Tx. Spurious NVNT n40 2422MHz Ant0 Ref

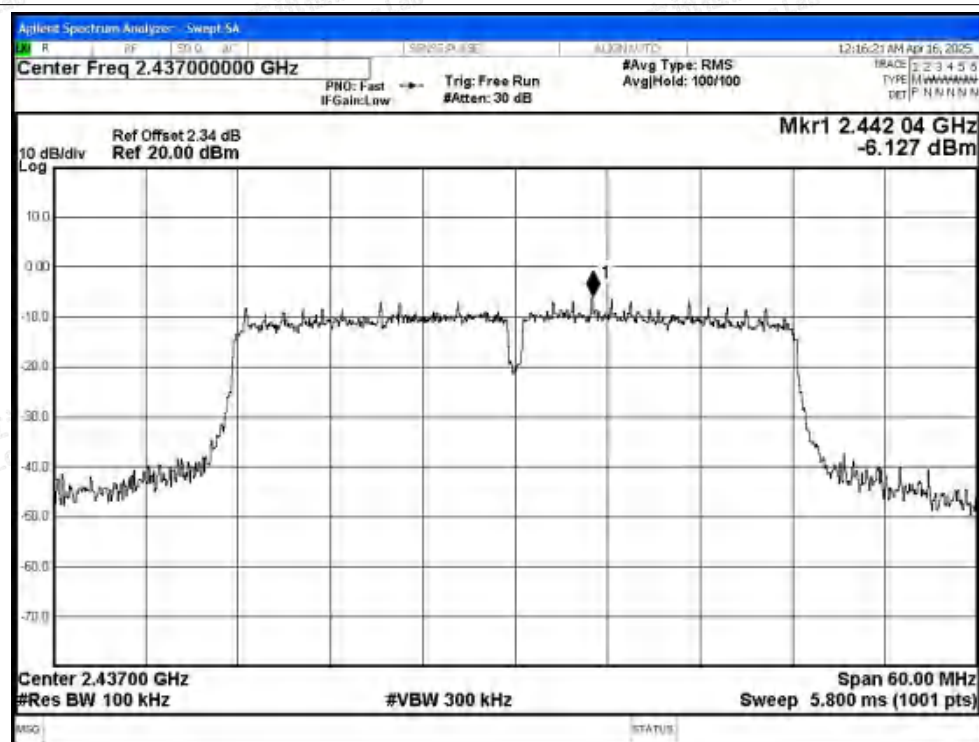


Tx. Spurious NVNT n40 2422MHz Ant0 Emission

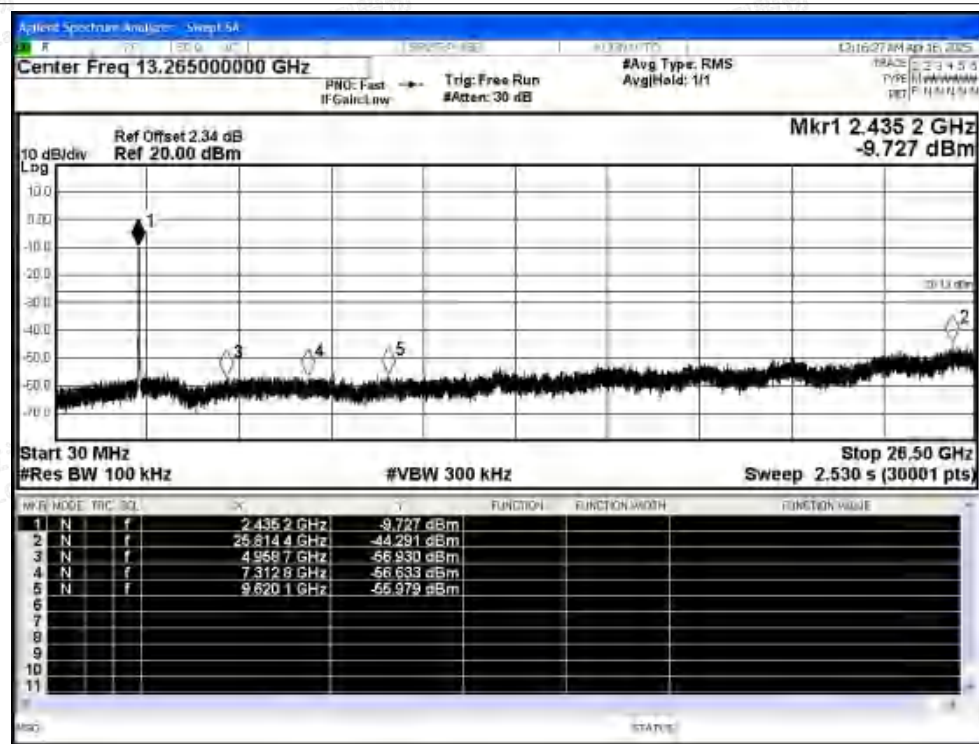




Tx. Spurious NVNT n40 2437MHz Ant0 Ref

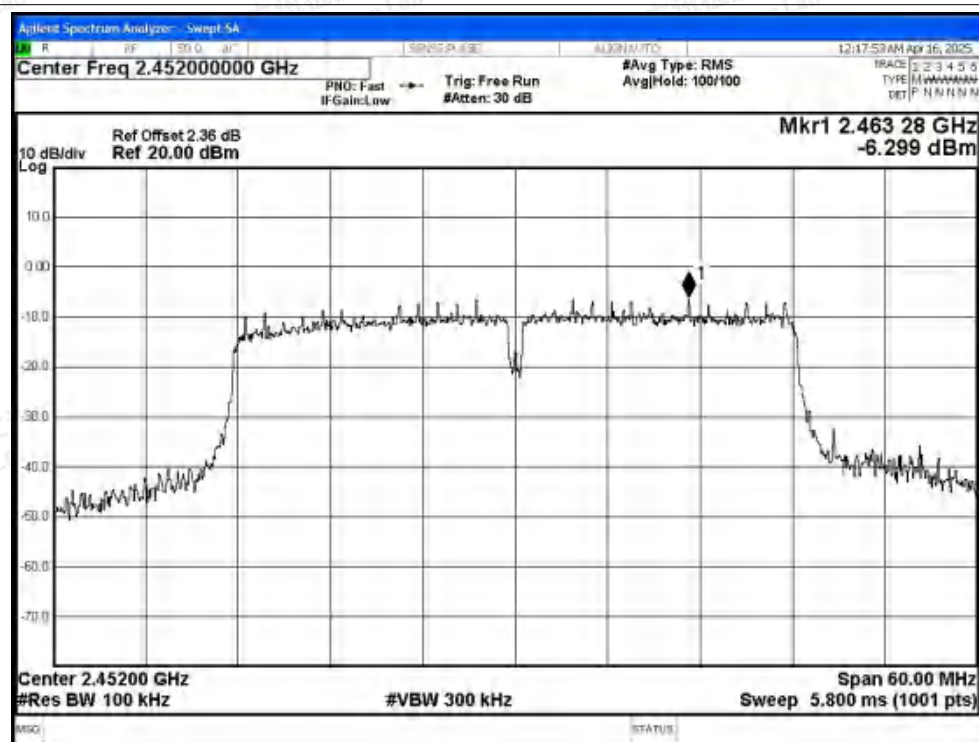


Tx. Spurious NVNT n40 2437MHz Ant0 Emission

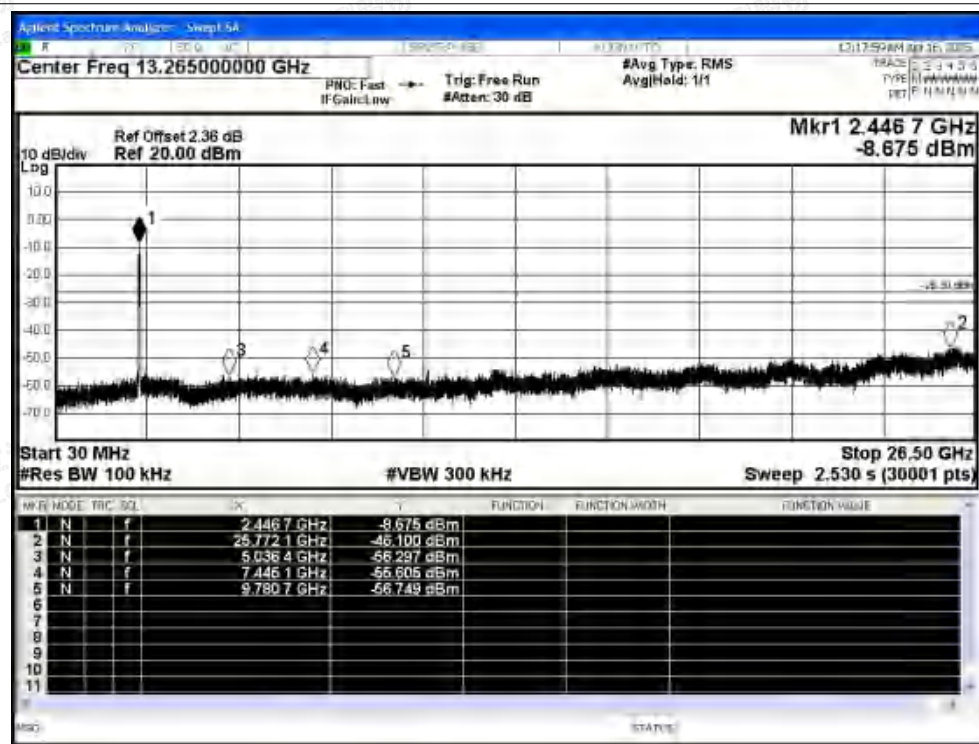


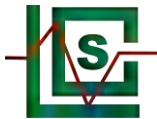


Tx. Spurious NVNT n40 2452MHz Ant0 Ref



Tx. Spurious NVNT n40 2452MHz Ant0 Emission





Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.21	-20	Pass
NVNT	b	2437	Ant1	-51.47	-20	Pass
NVNT	b	2462	Ant1	-50.75	-20	Pass
NVNT	g	2412	Ant1	-44.67	-20	Pass
NVNT	g	2437	Ant1	-43.23	-20	Pass
NVNT	g	2462	Ant1	-43.43	-20	Pass
NVNT	n20	2412	Ant1	-43.53	-20	Pass
NVNT	n20	2437	Ant1	-41.13	-20	Pass
NVNT	n20	2462	Ant1	-41.07	-20	Pass
NVNT	n40	2422	Ant1	-40.05	-20	Pass
NVNT	n40	2437	Ant1	-37.64	-20	Pass
NVNT	n40	2452	Ant1	-39.25	-20	Pass



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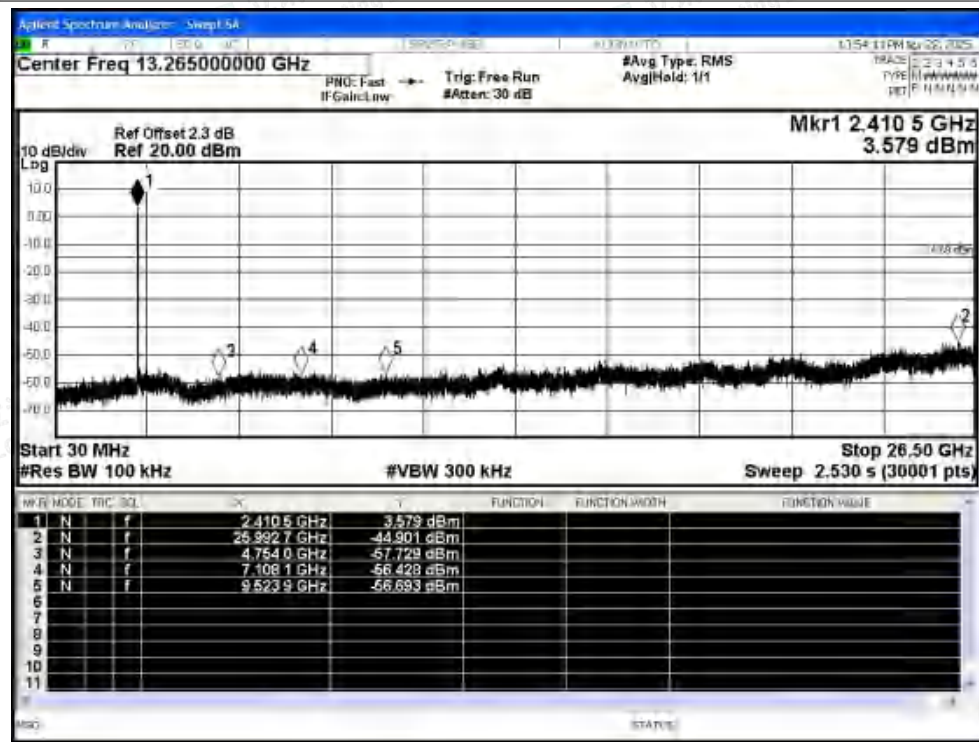


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

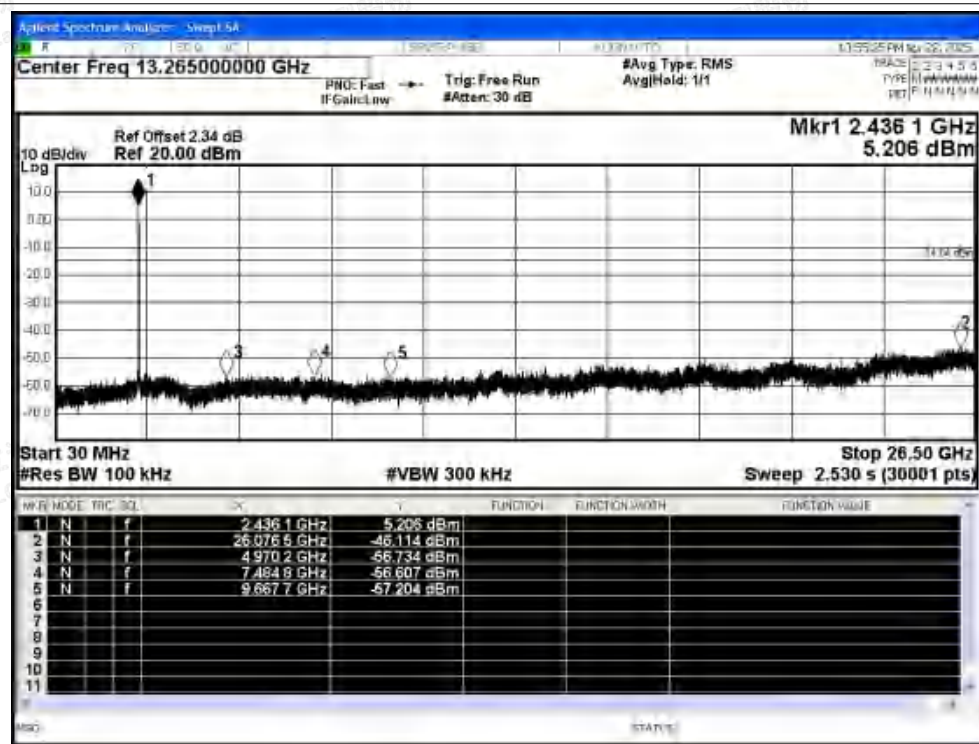




Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

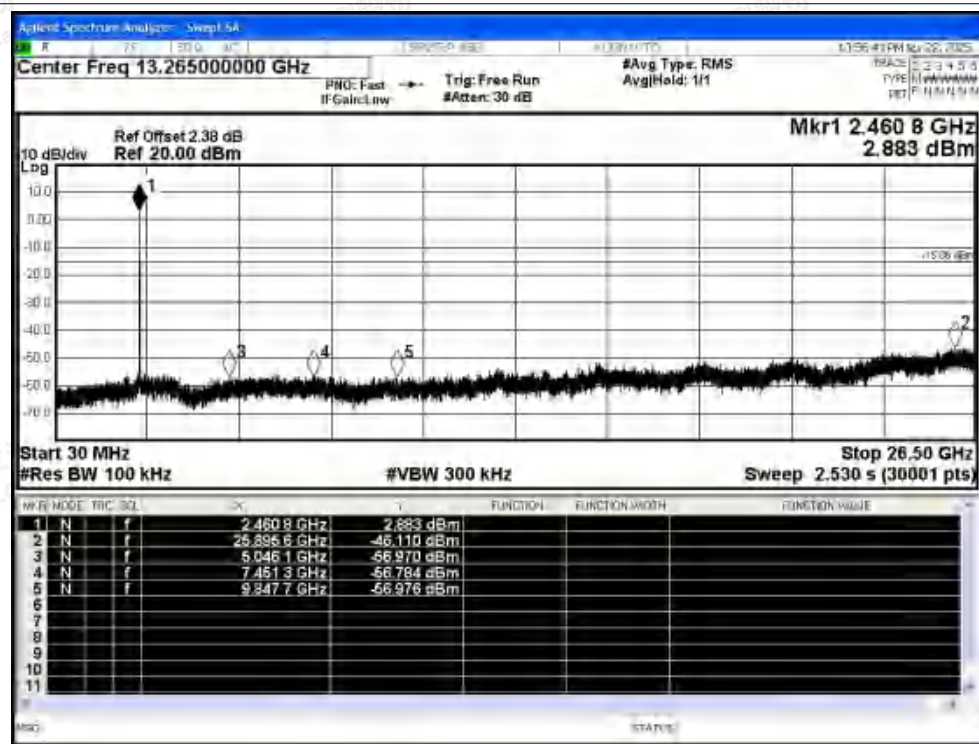




Tx. Spurious NVNT b 2462MHz Ant1 Ref

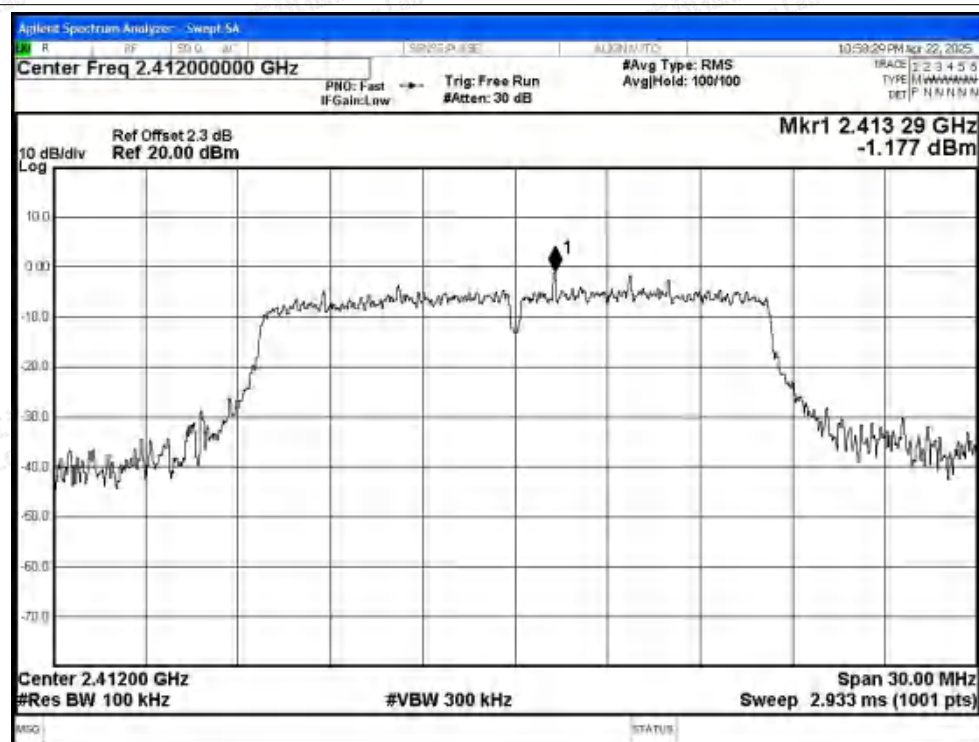


Tx. Spurious NVNT b 2462MHz Ant1 Emission

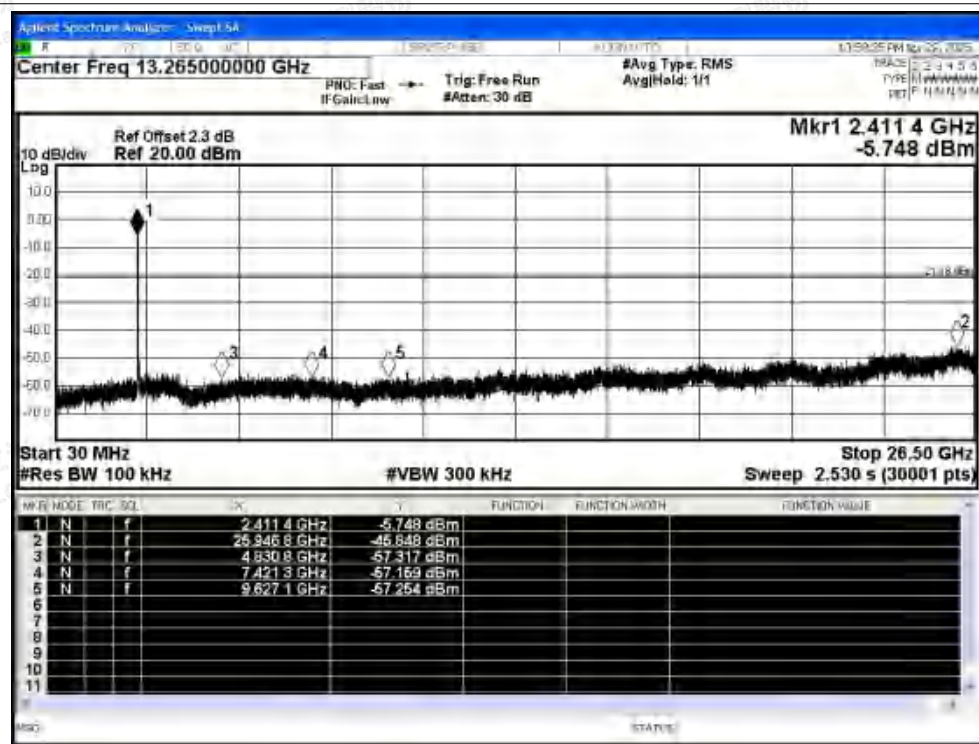




Tx. Spurious NVNT g 2412MHz Ant1 Ref

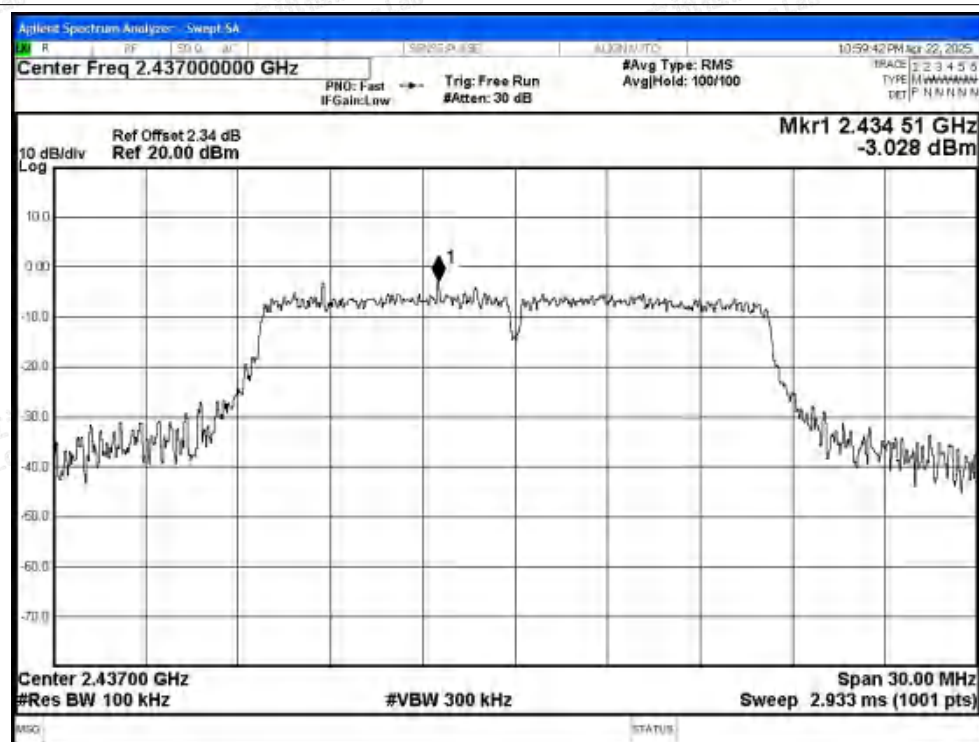


Tx. Spurious NVNT g 2412MHz Ant1 Emission

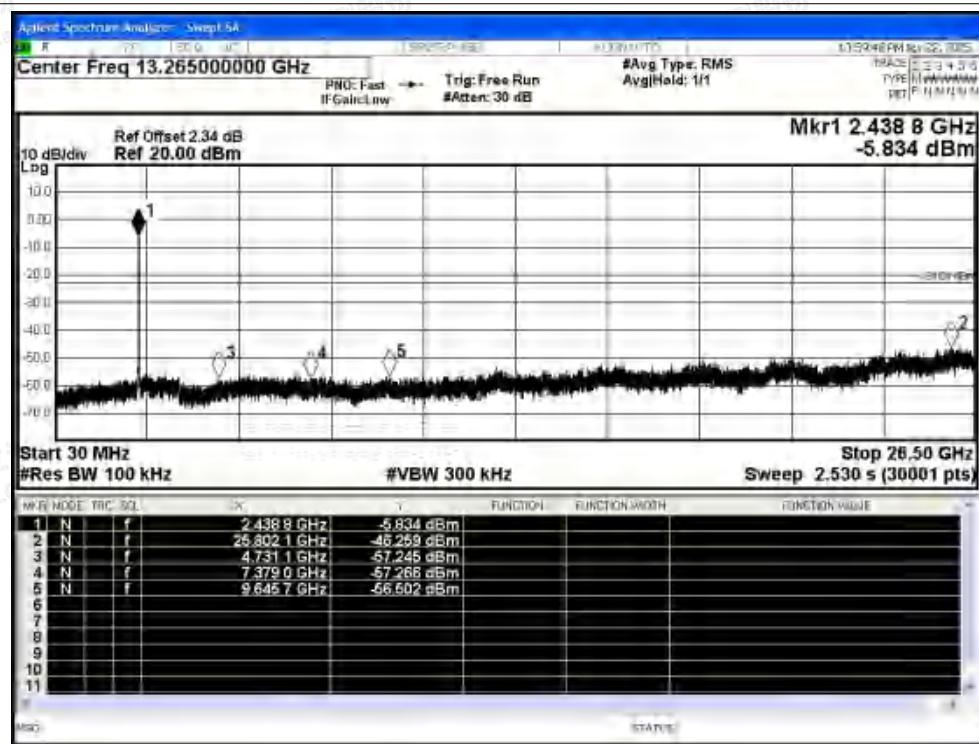




Tx. Spurious NVNT g 2437MHz Ant1 Ref

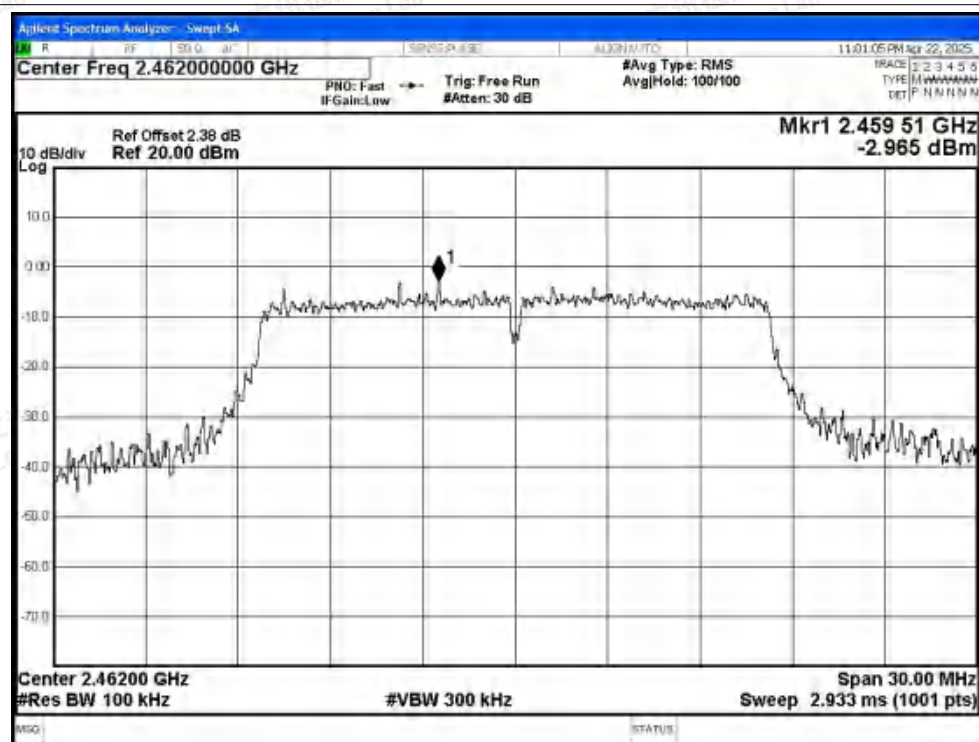


Tx. Spurious NVNT g 2437MHz Ant1 Emission

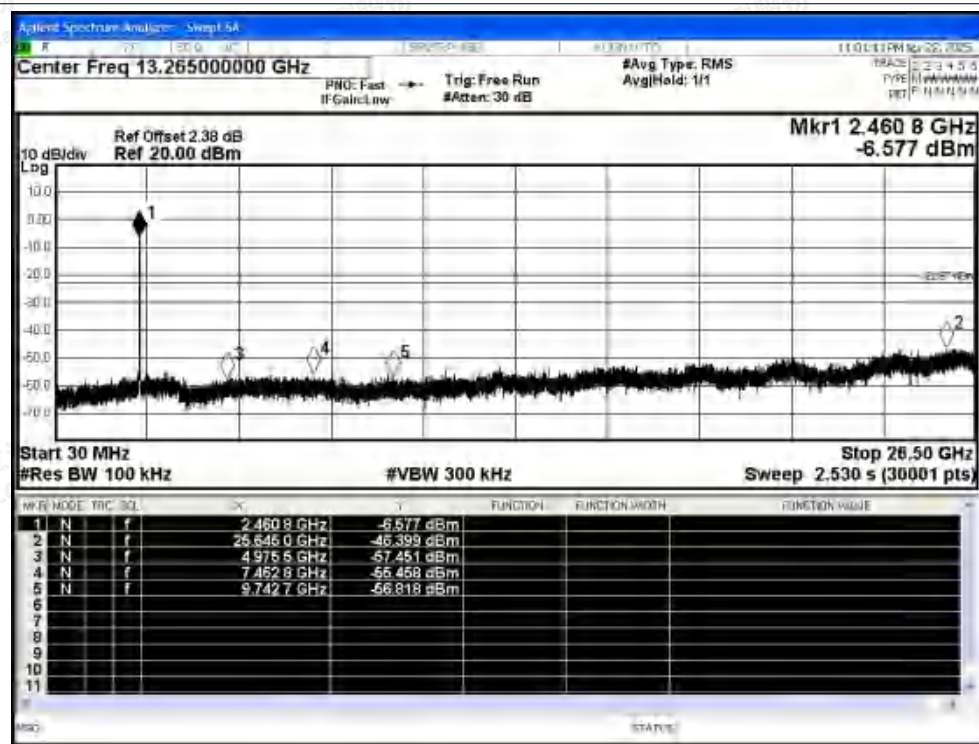




Tx. Spurious NVNT g 2462MHz Ant1 Ref

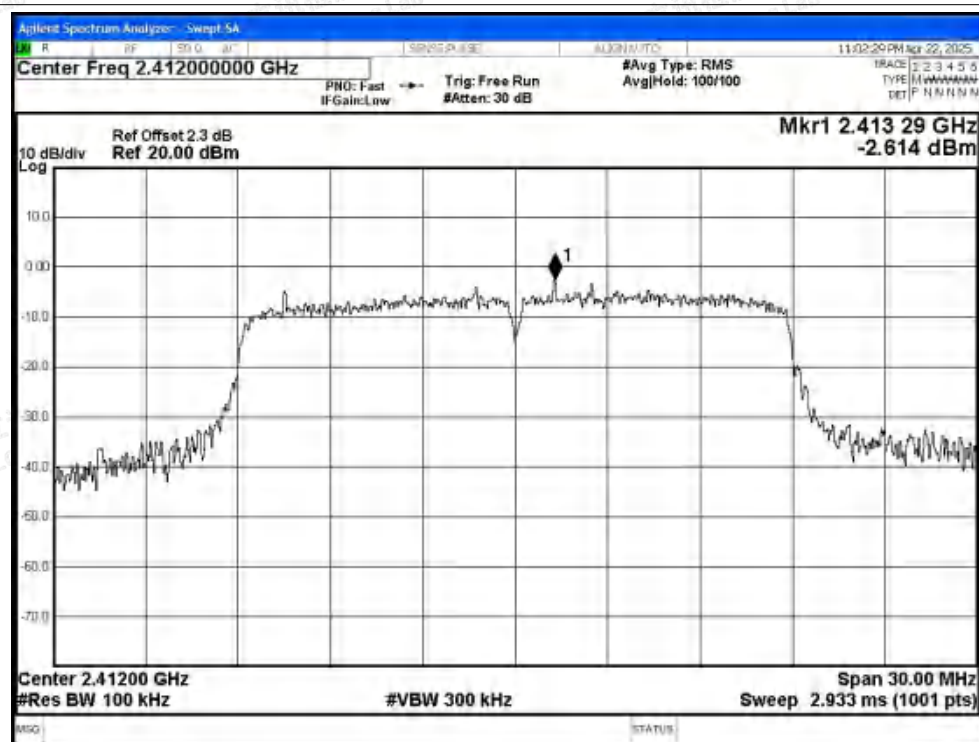


Tx. Spurious NVNT g 2462MHz Ant1 Emission

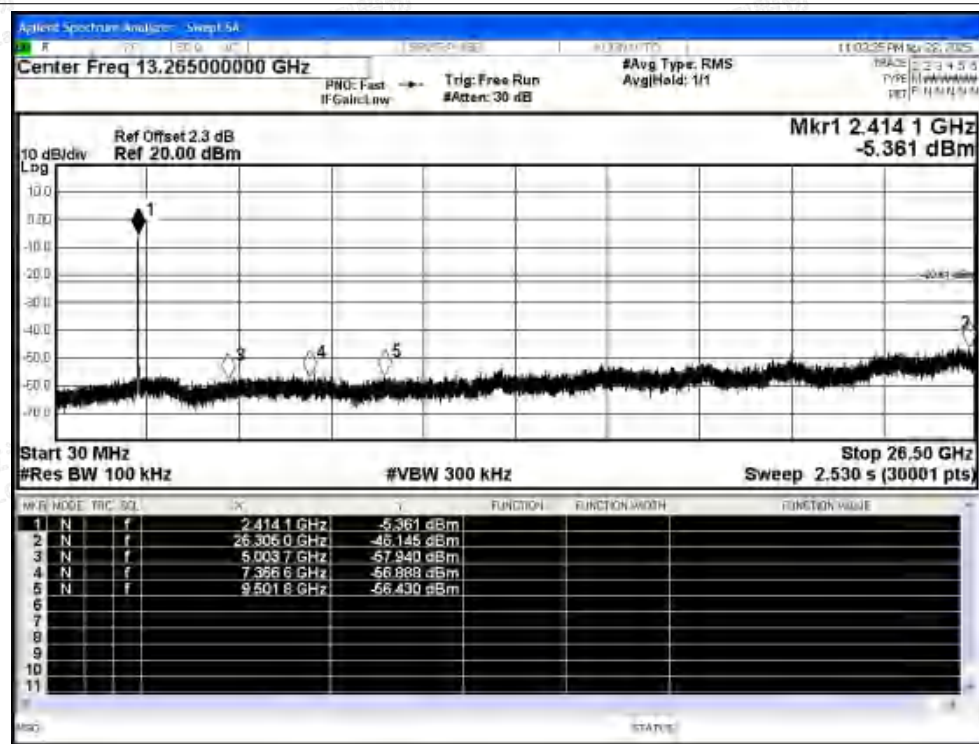




Tx. Spurious NVNT n20 2412MHz Ant1 Ref

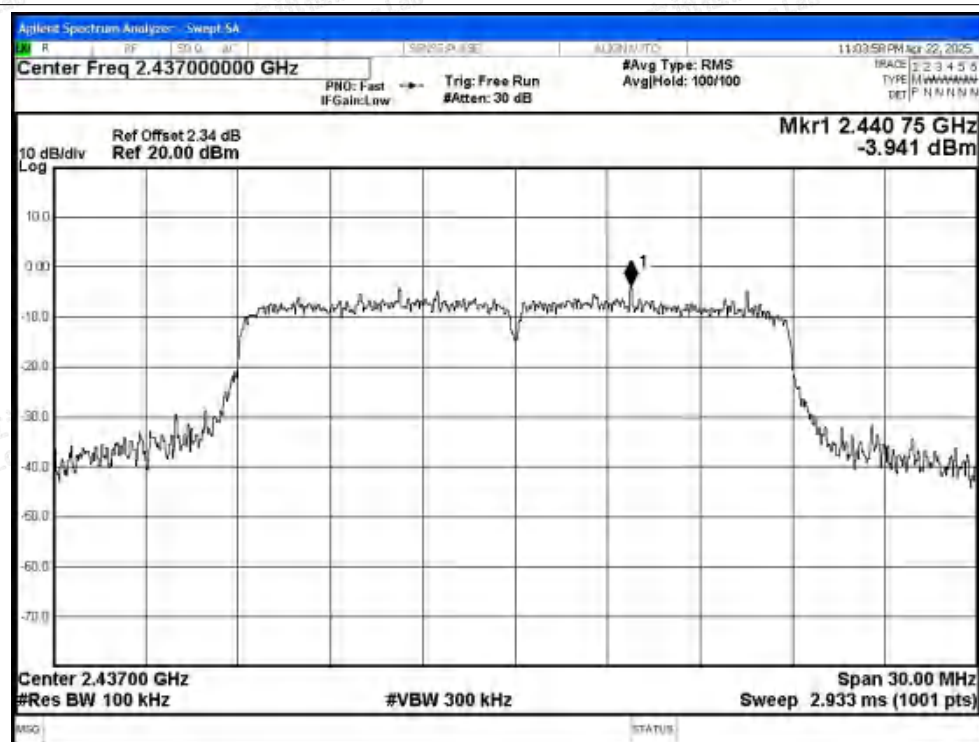


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

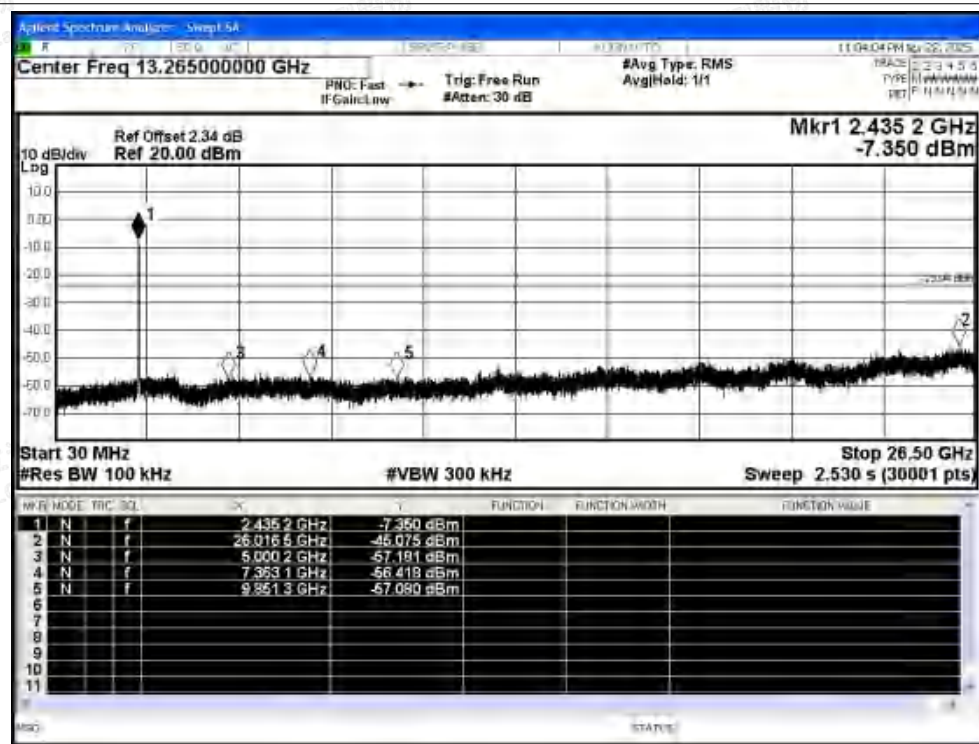




Tx. Spurious NVNT n20 2437MHz Ant1 Ref

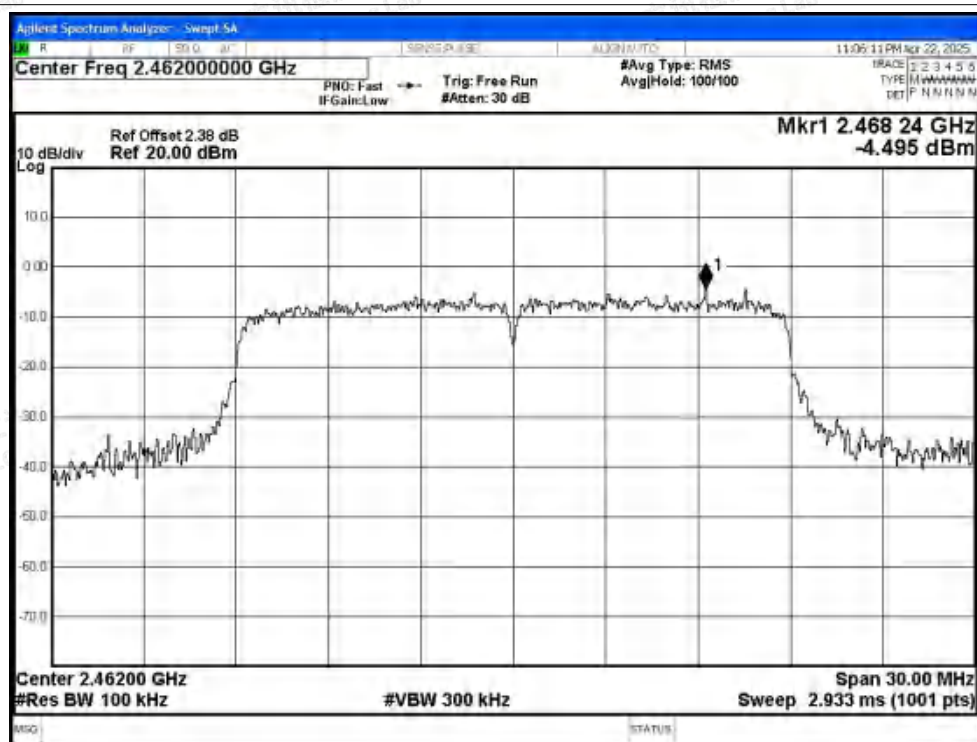


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

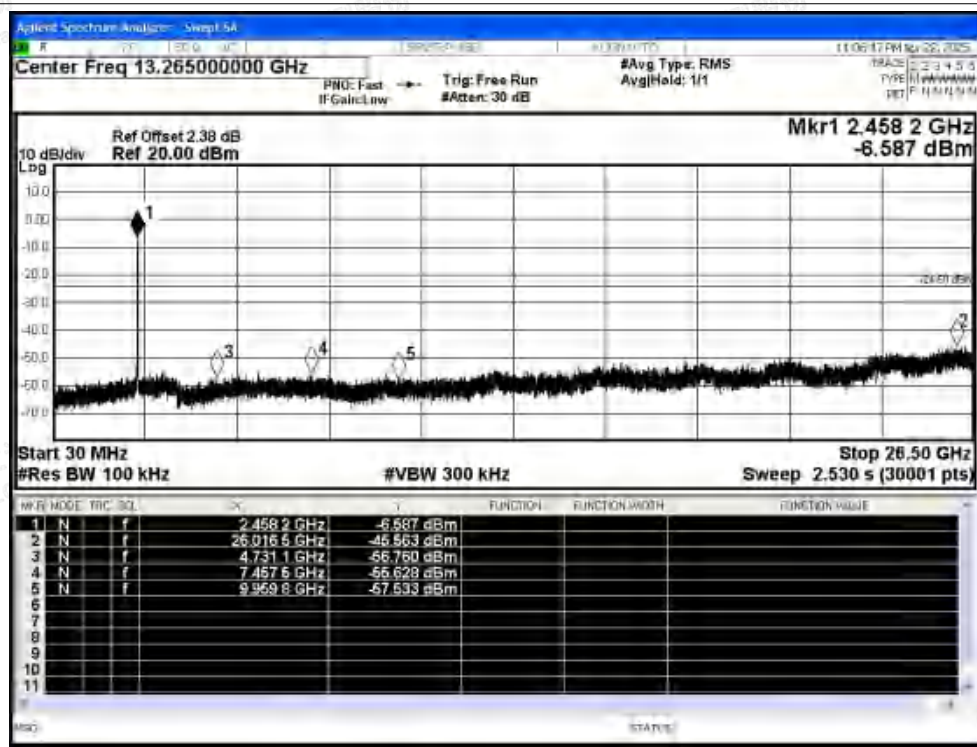




Tx. Spurious NVNT n20 2462MHz Ant1 Ref

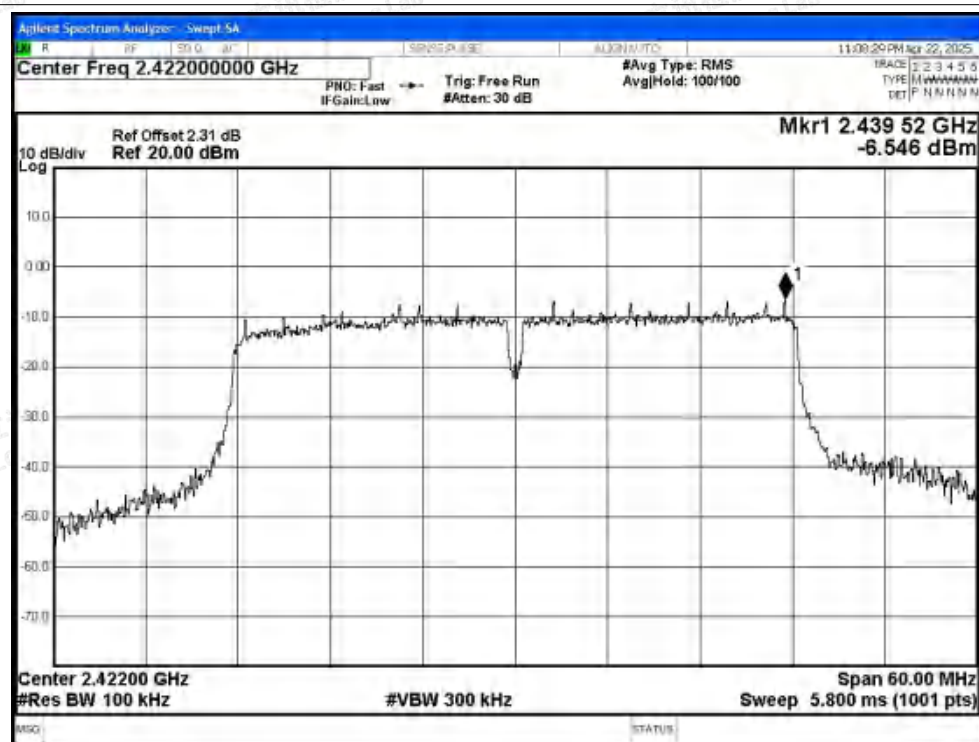


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

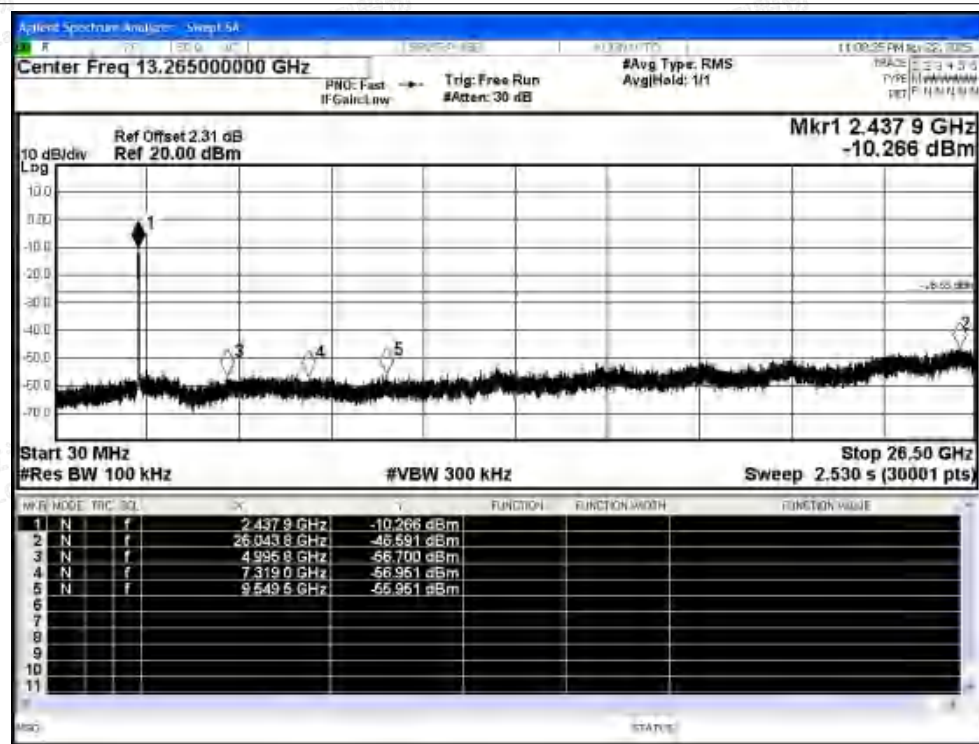




Tx. Spurious NVNT n40 2422MHz Ant1 Ref

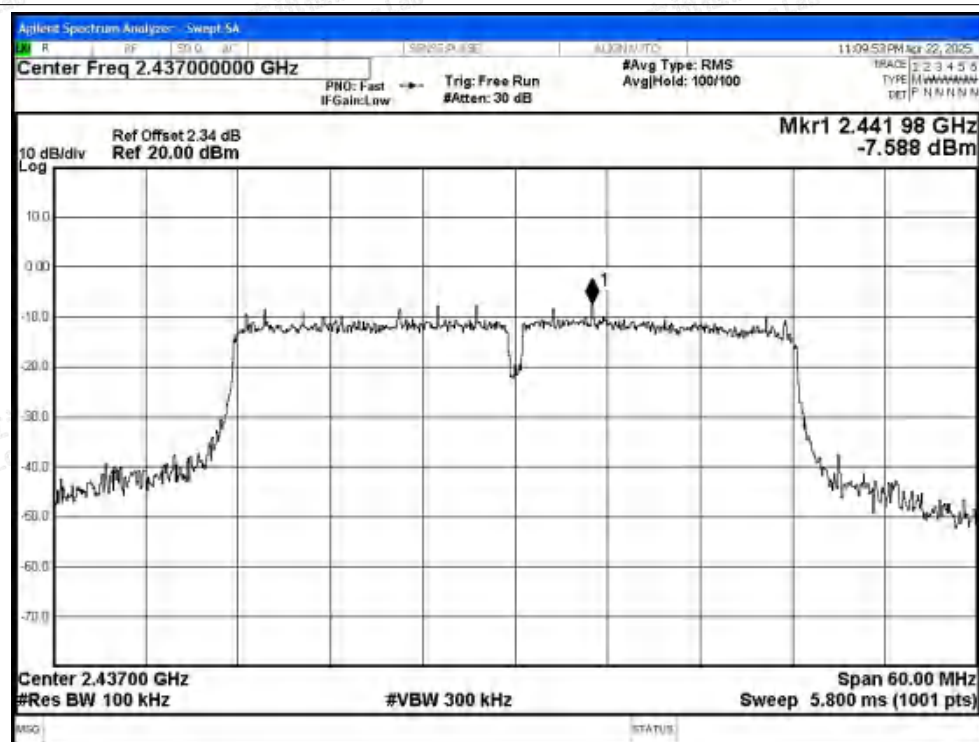


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

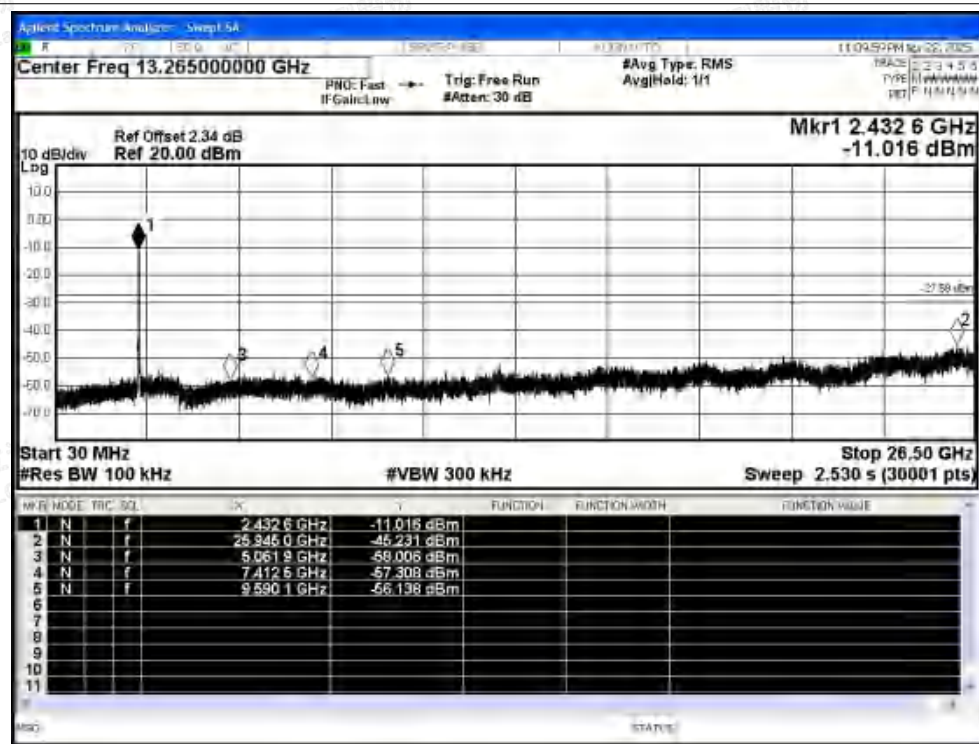




Tx. Spurious NVNT n40 2437MHz Ant1 Ref

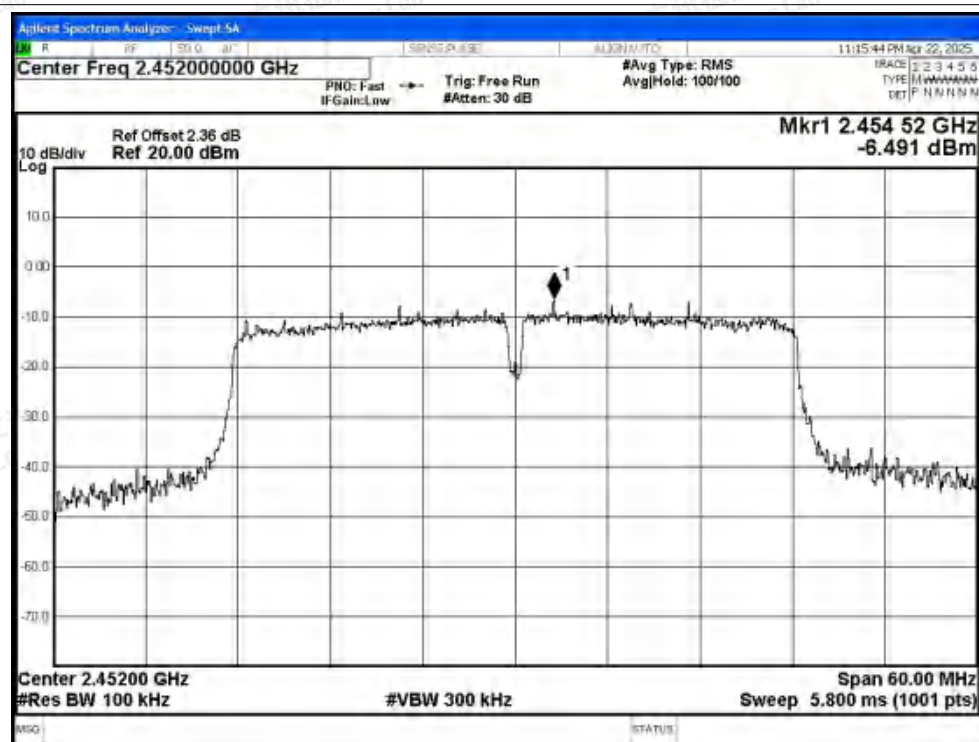


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

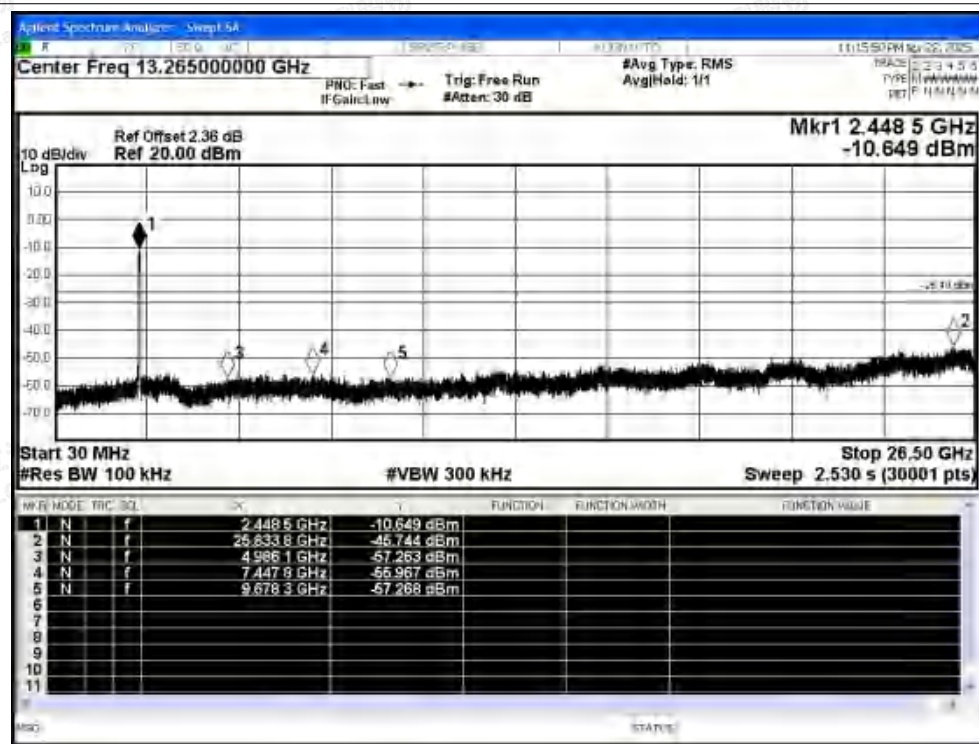


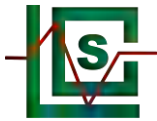


Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission





C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant0	99.16	0	0.15
NVNT	b	2437	Ant0	99.16	0	0.15
NVNT	b	2462	Ant0	99.16	0	0.15
NVNT	g	2412	Ant0	94.65	0.24	0.91
NVNT	g	2437	Ant0	94.65	0.24	0.91
NVNT	g	2462	Ant0	94.65	0.24	0.91
NVNT	n20	2412	Ant0	93.76	0.28	1.07
NVNT	n20	2437	Ant0	93.78	0.28	1.07
NVNT	n20	2462	Ant0	93.57	0.29	1.07
NVNT	n40	2422	Ant0	88.3	0.54	2.14
NVNT	n40	2437	Ant0	87.97	0.56	2.14
NVNT	n40	2452	Ant0	87.97	0.56	2.14

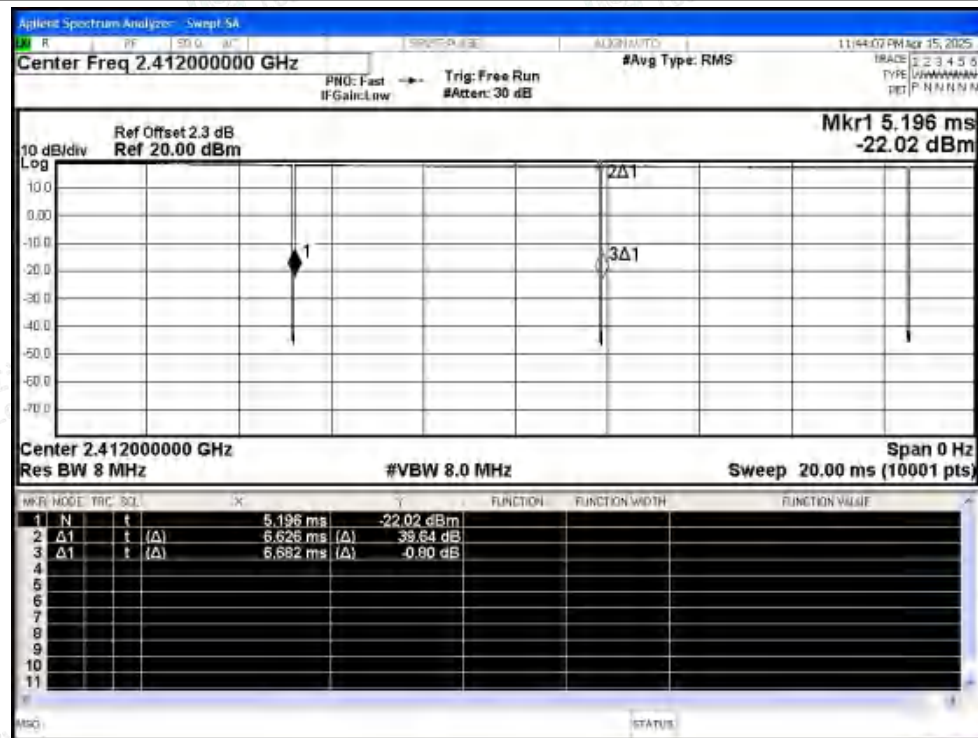


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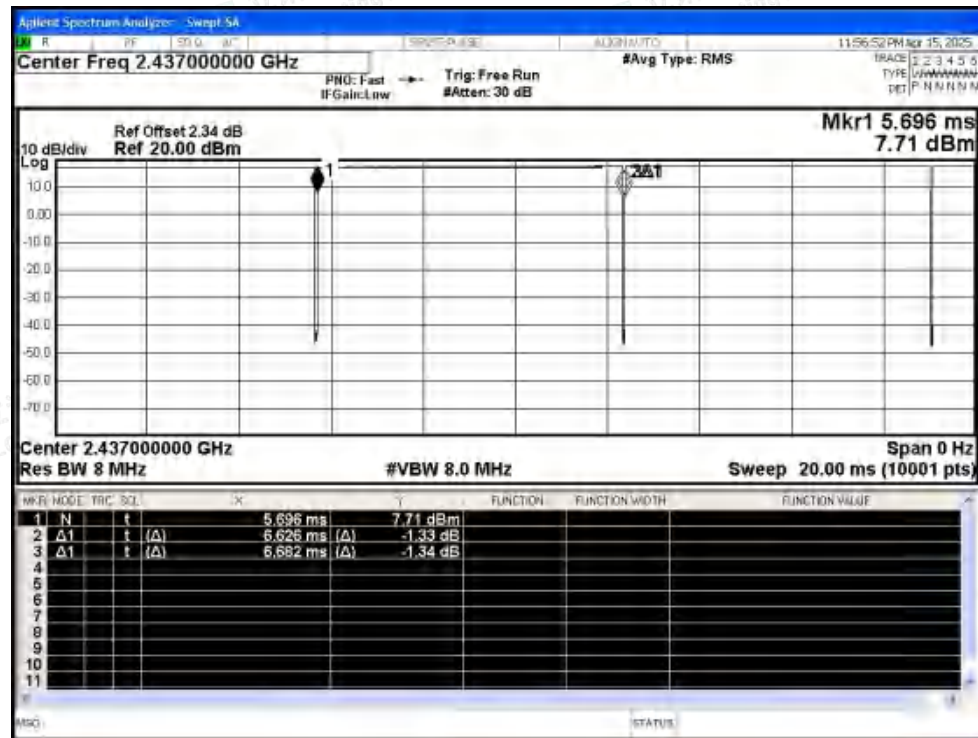


Test Graphs

Duty Cycle NVNT b 2412MHz Ant0



Duty Cycle NVNT b 2437MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

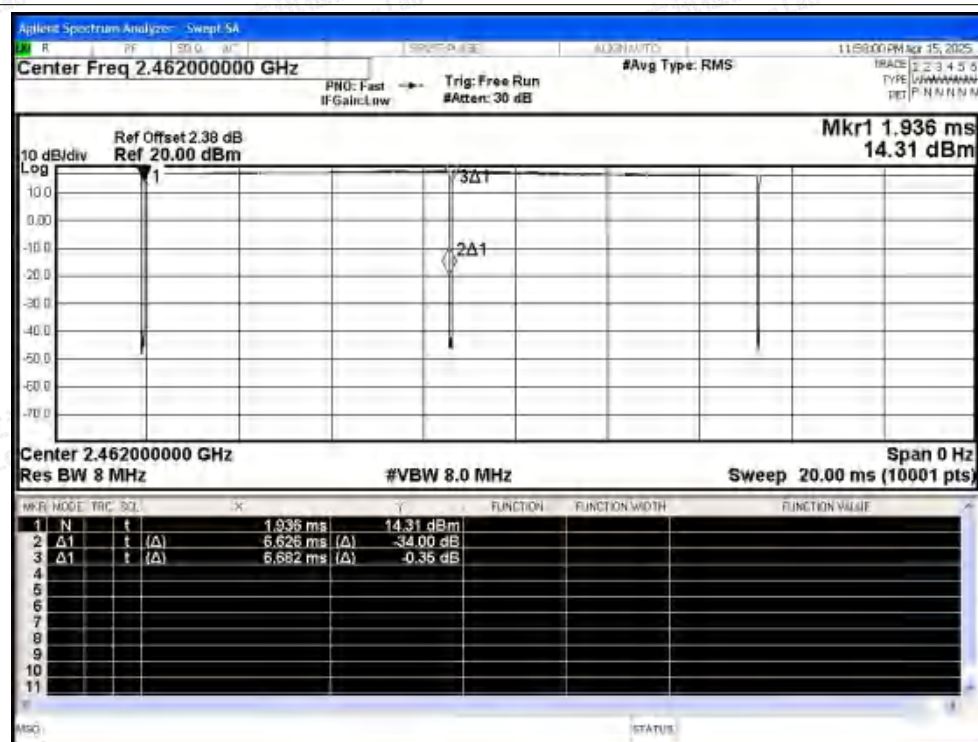
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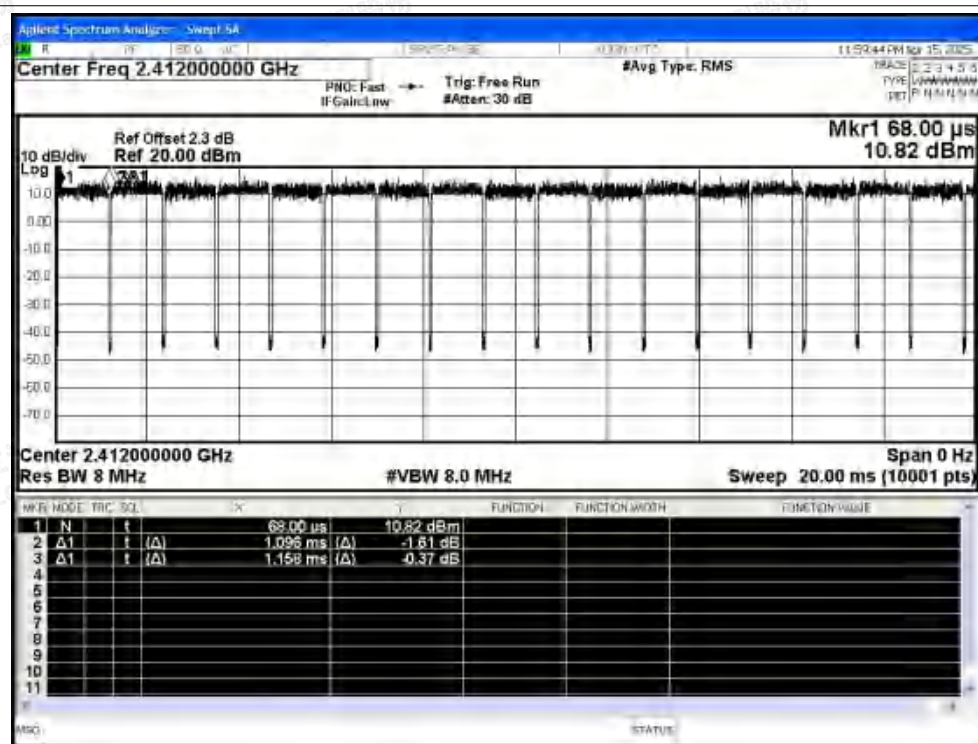
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant0

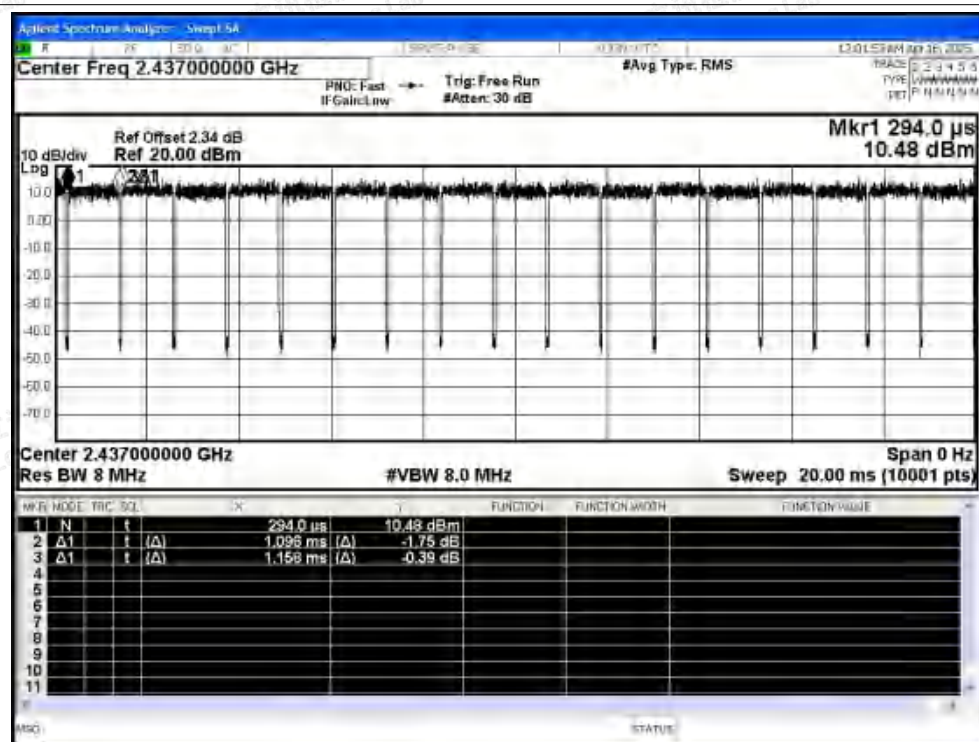


Duty Cycle NVNT g 2412MHz Ant0

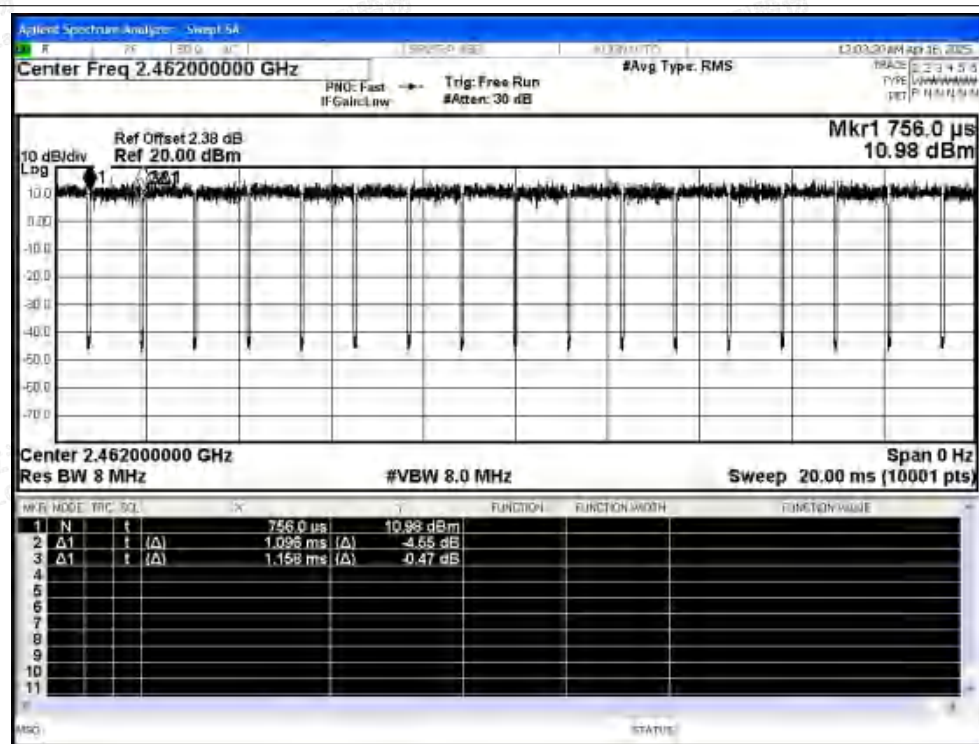




Duty Cycle NVNT g 2437MHz Ant0

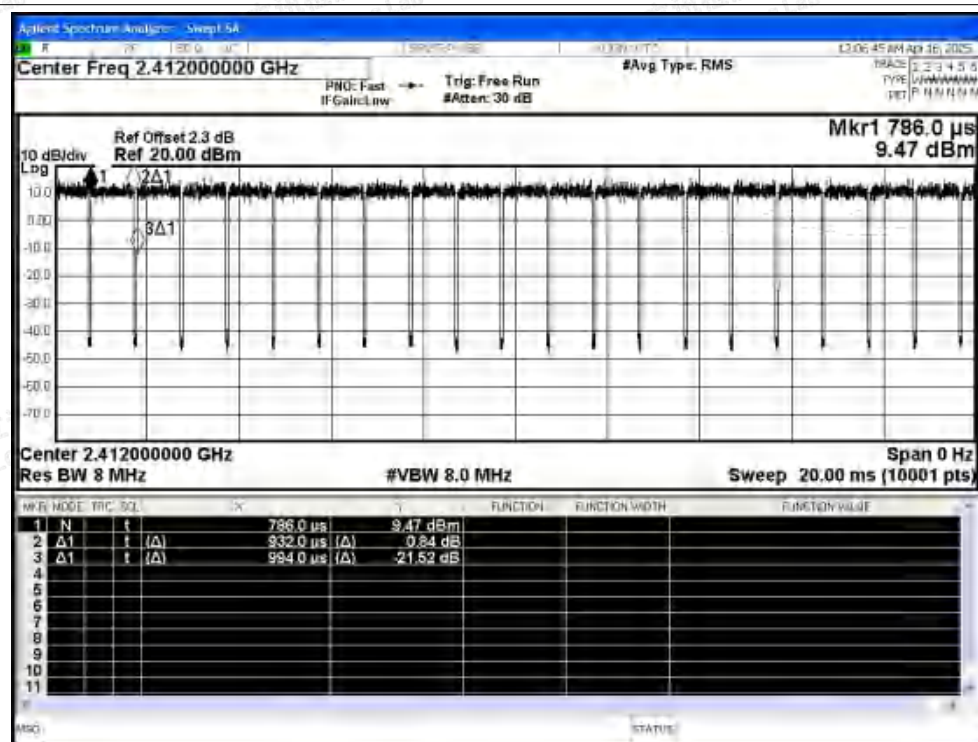


Duty Cycle NVNT g 2462MHz Ant0

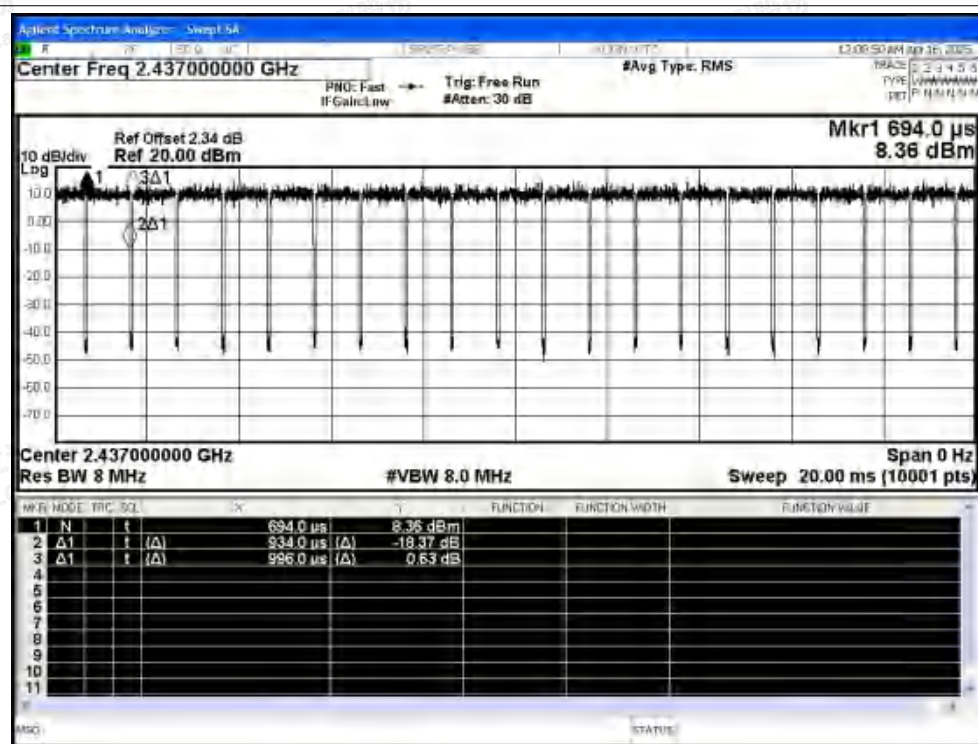




Duty Cycle NVNT n20 2412MHz Ant0

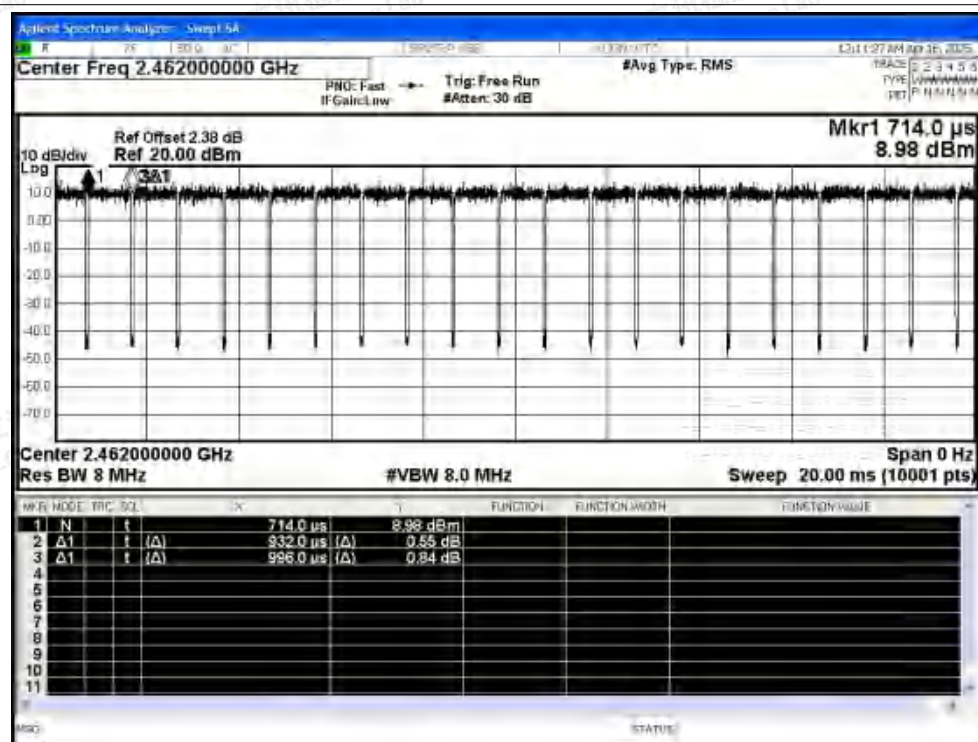


Duty Cycle NVNT n20 2437MHz Ant0

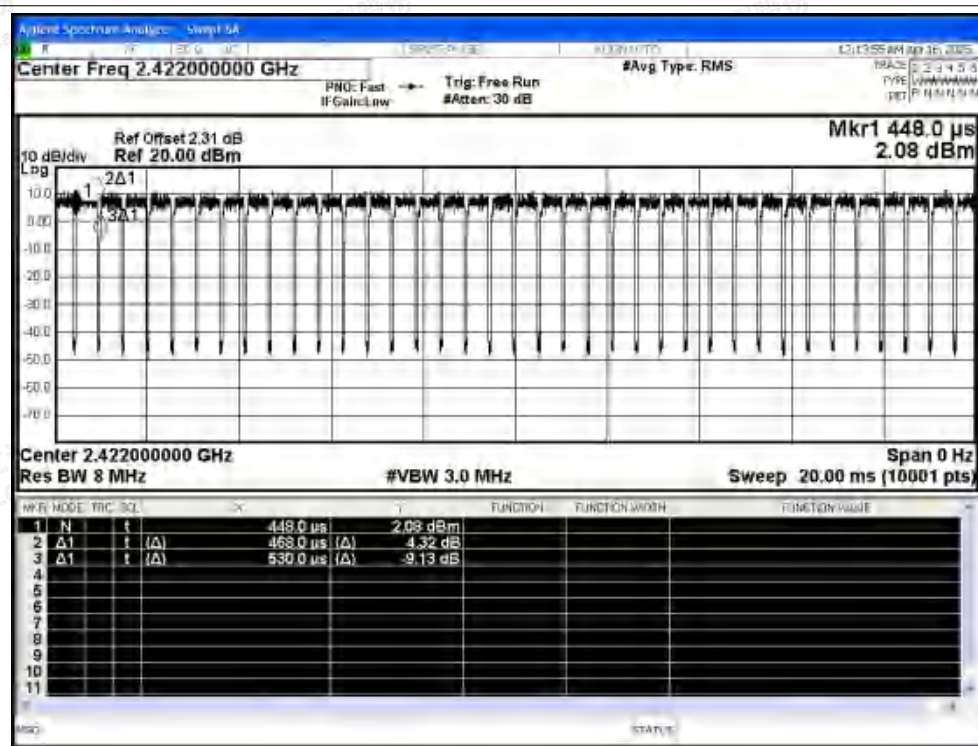




Duty Cycle NVNT n20 2462MHz Ant0

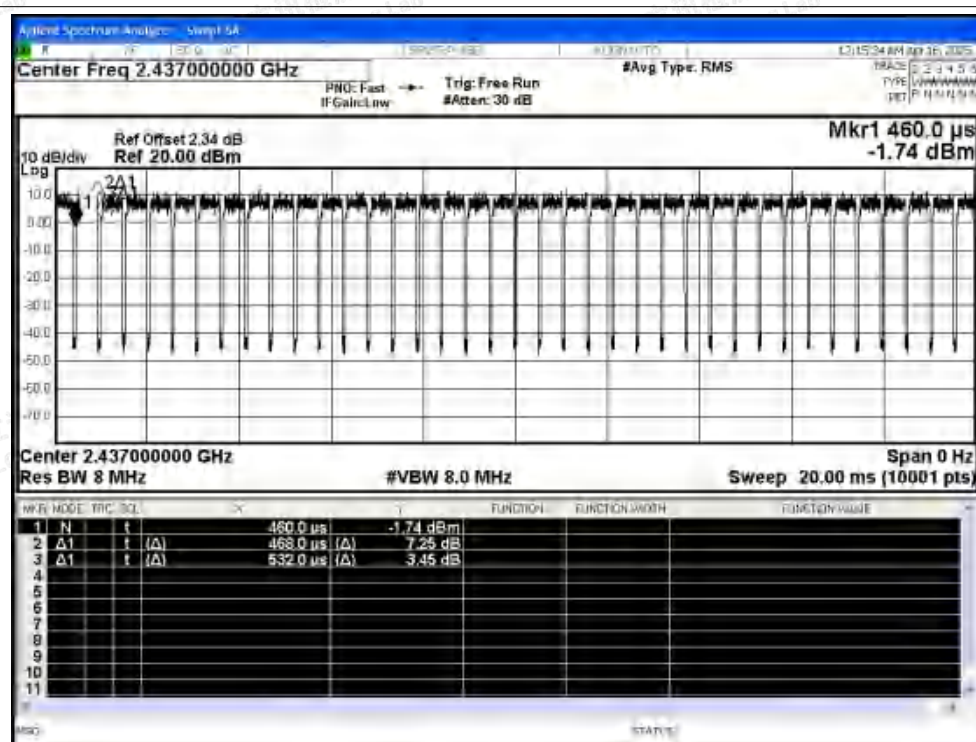


Duty Cycle NVNT n40 2422MHz Ant0

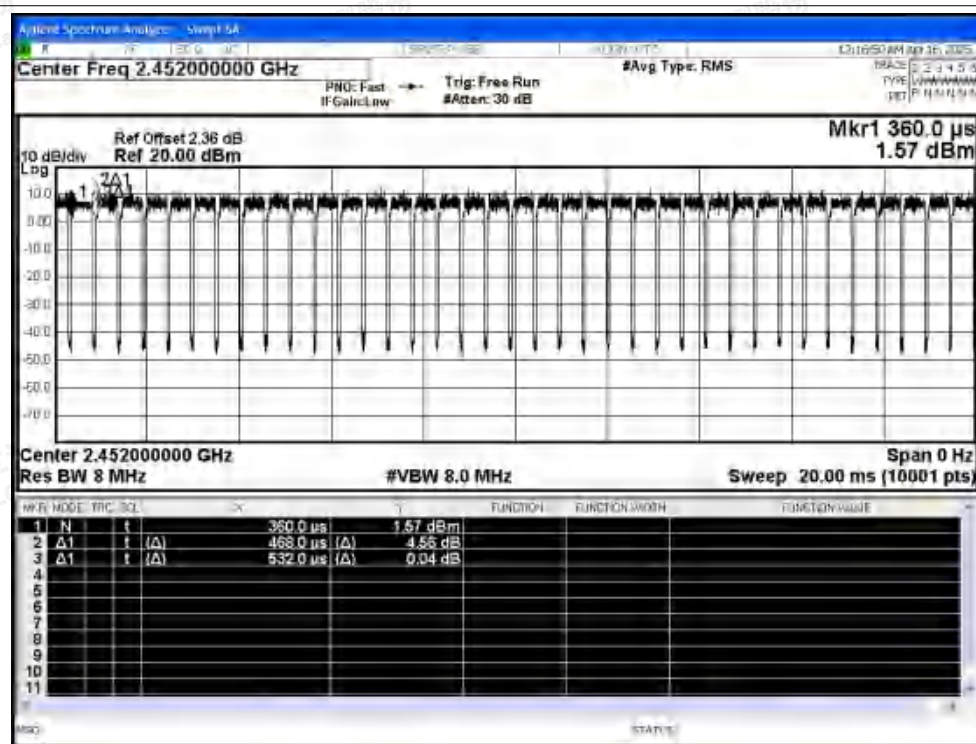


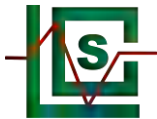


Duty Cycle NVNT n40 2437MHz Ant0



Duty Cycle NVNT n40 2452MHz Ant0





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	99.13	0	0.15
NVNT	b	2462	Ant1	99.13	0	0.15
NVNT	g	2412	Ant1	98.49	0	0.25
NVNT	g	2437	Ant1	98.49	0	0.25
NVNT	g	2462	Ant1	98.44	0	0.25
NVNT	n20	2412	Ant1	98.14	0	0.3
NVNT	n20	2437	Ant1	98.14	0	0.3
NVNT	n20	2462	Ant1	98.19	0	0.3
NVNT	n40	2422	Ant1	96.36	0.16	0.61
NVNT	n40	2437	Ant1	96.36	0.16	0.61
NVNT	n40	2452	Ant1	96.36	0.16	0.61

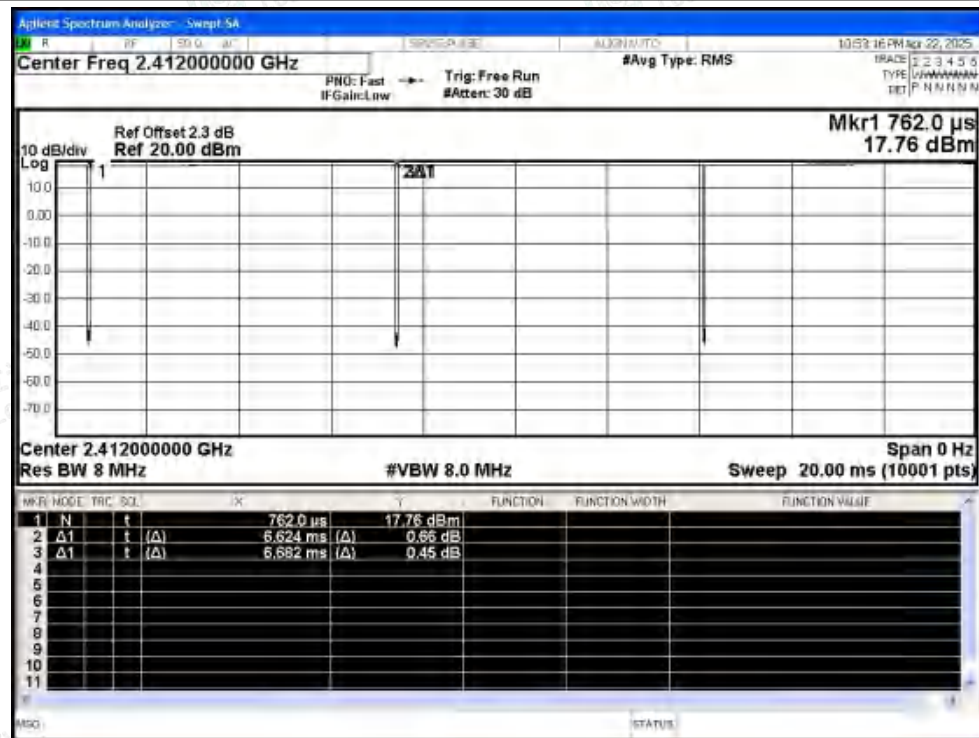


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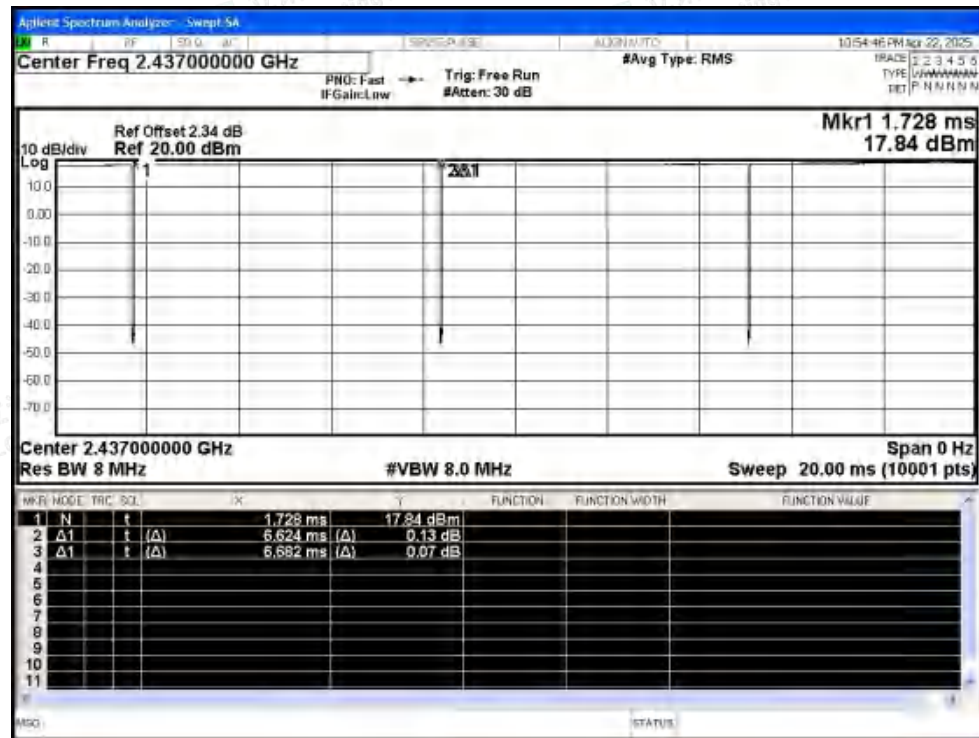


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

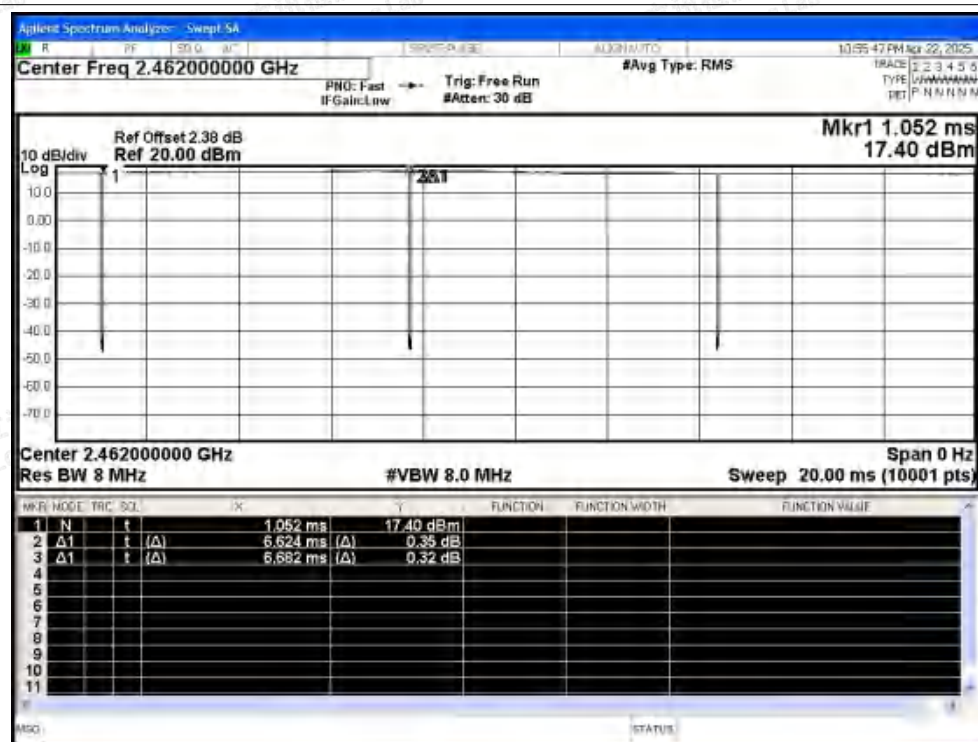


Duty Cycle NVNT b 2437MHz Ant1

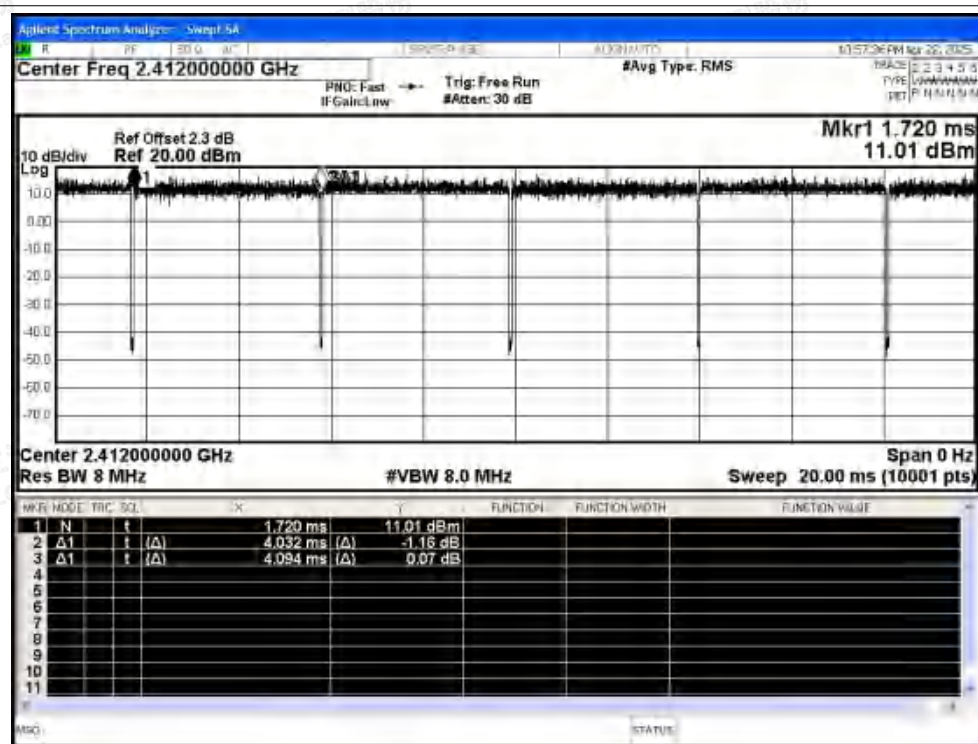




Duty Cycle NVNT b 2462MHz Ant1

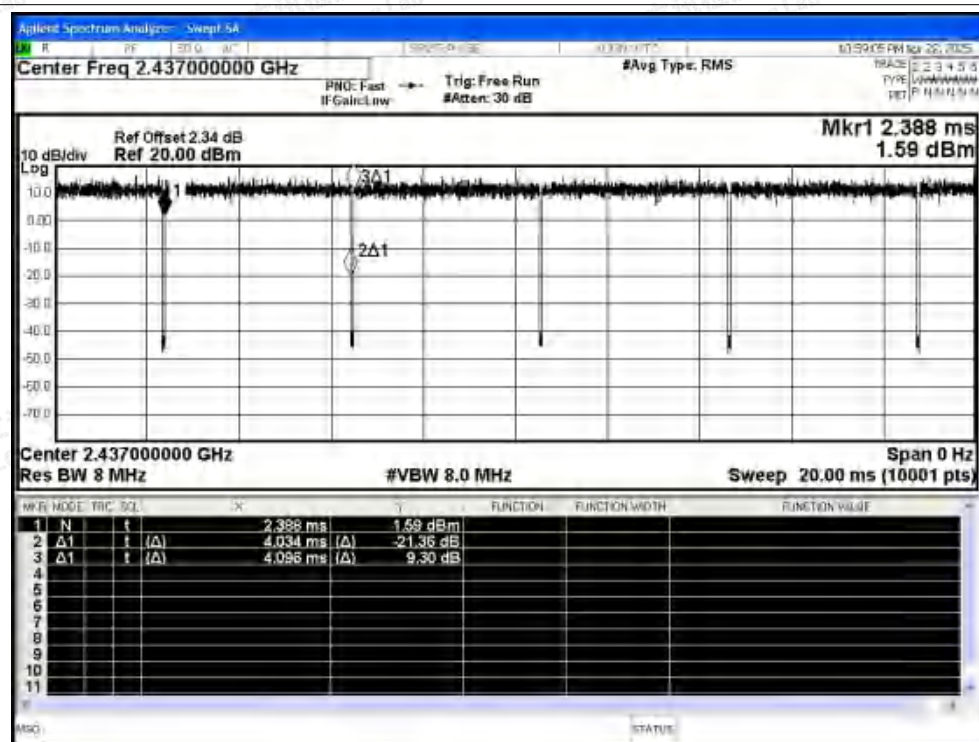


Duty Cycle NVNT g 2412MHz Ant1

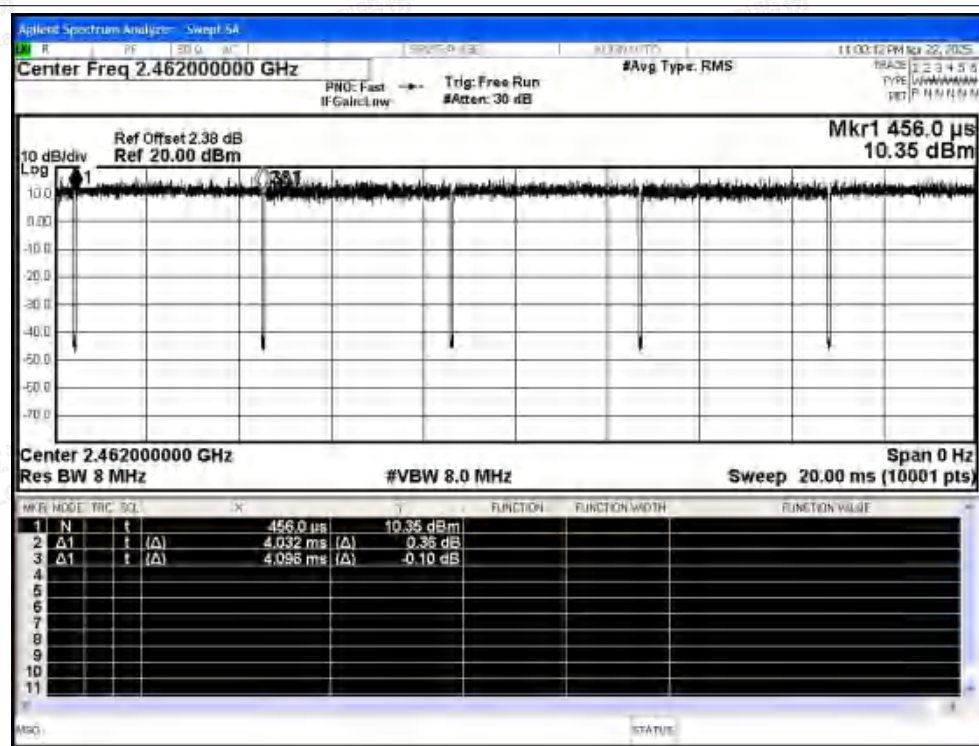




Duty Cycle NVNT g 2437MHz Ant1

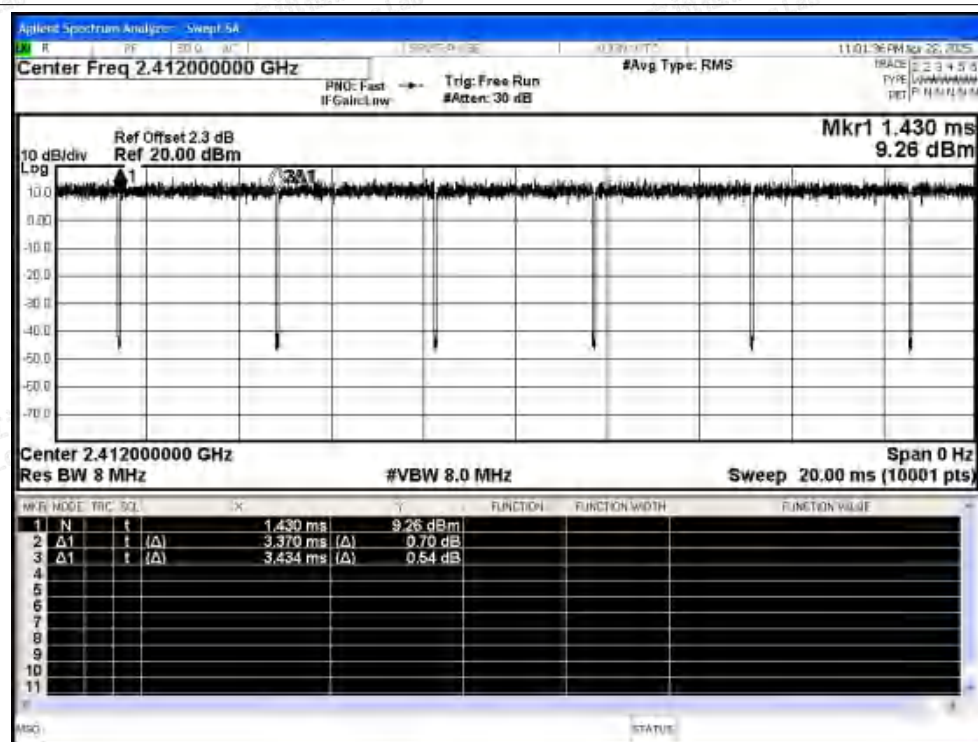


Duty Cycle NVNT g 2462MHz Ant1

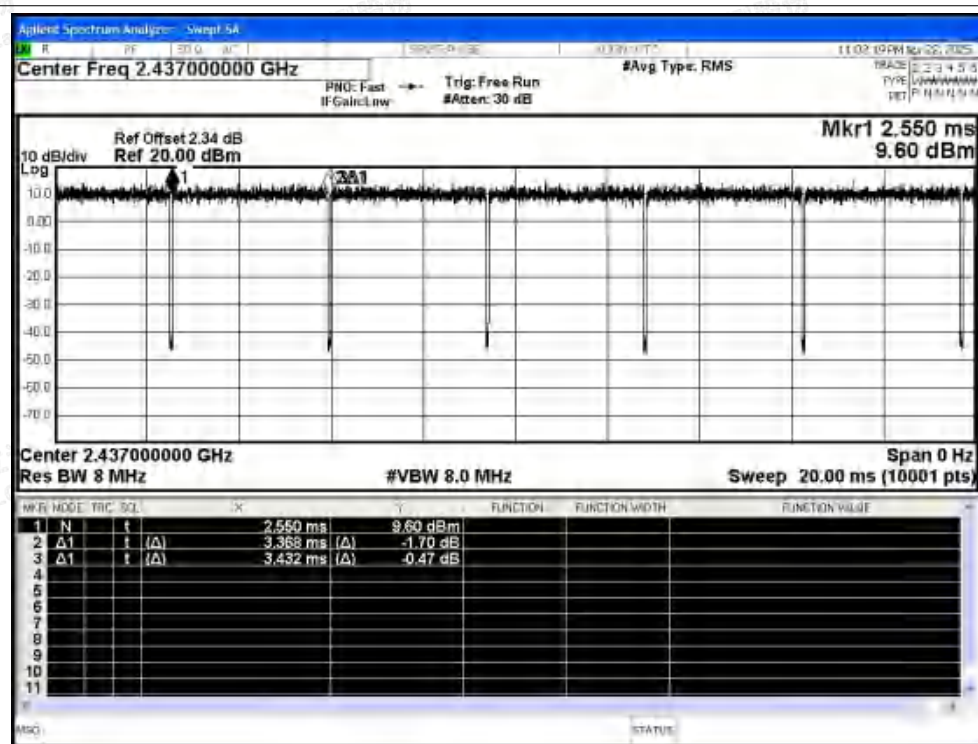




Duty Cycle NVNT n20 2412MHz Ant1

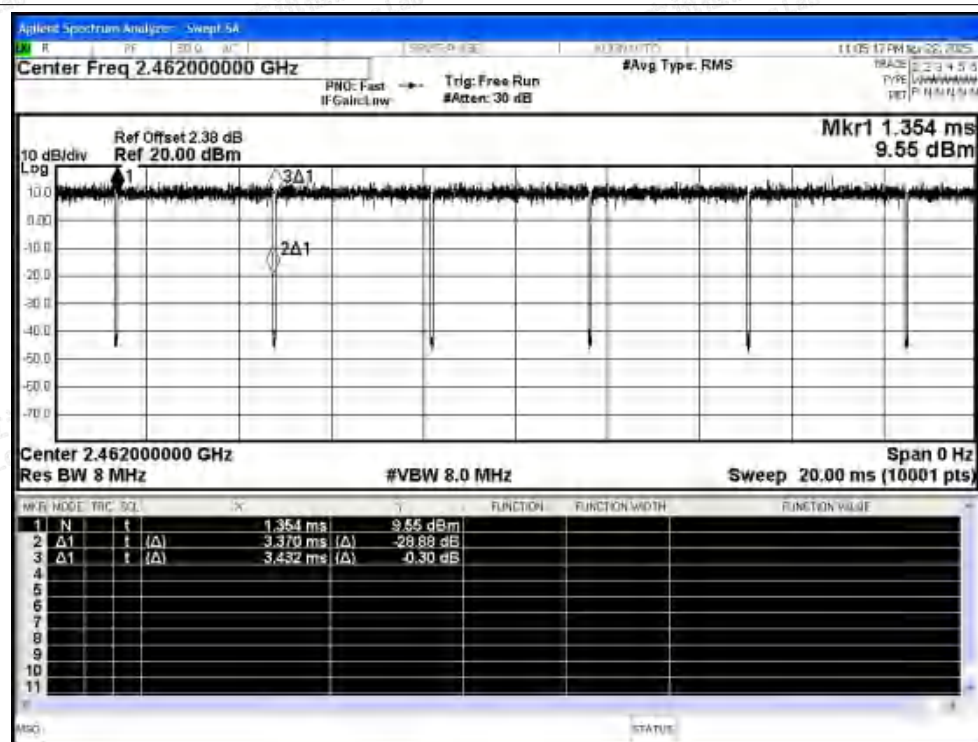


Duty Cycle NVNT n20 2437MHz Ant1

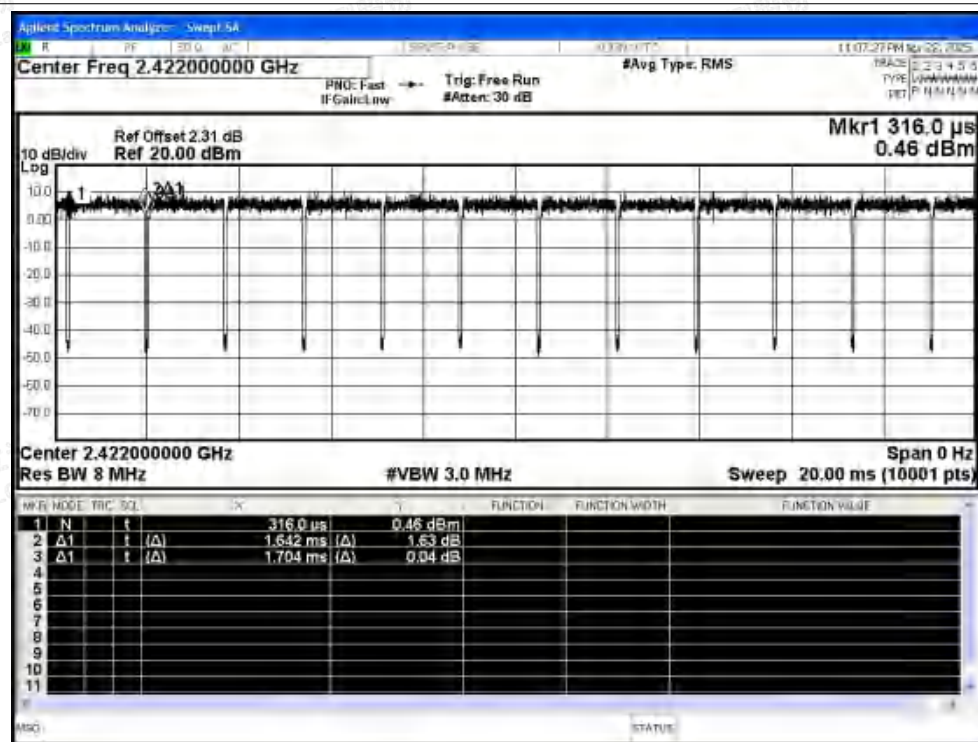




Duty Cycle NVNT n20 2462MHz Ant1

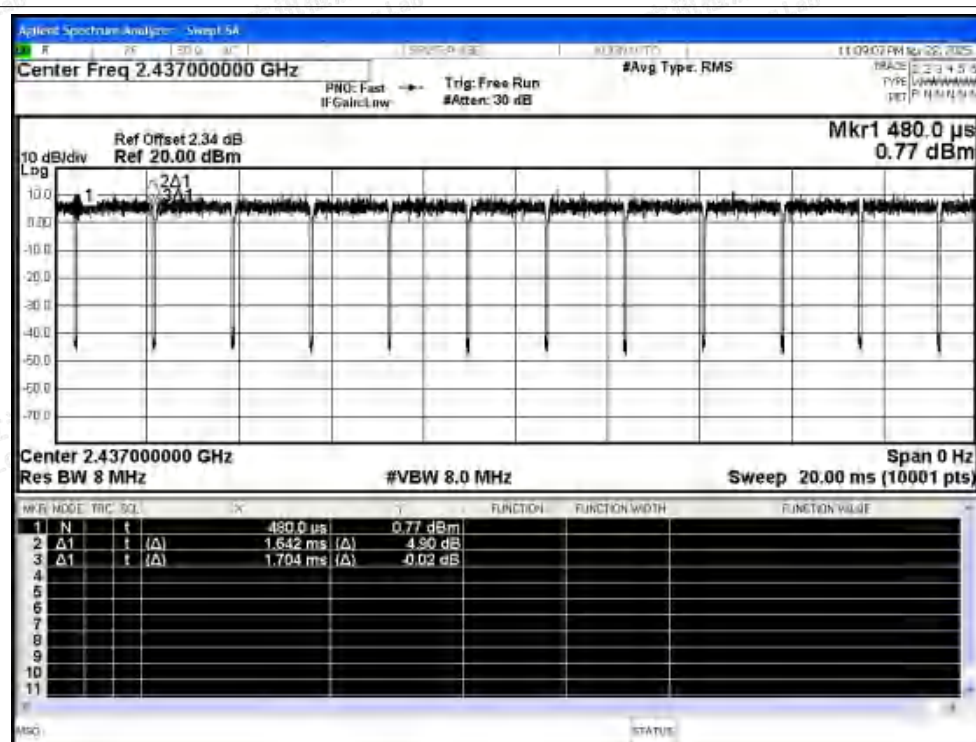


Duty Cycle NVNT n40 2422MHz Ant1

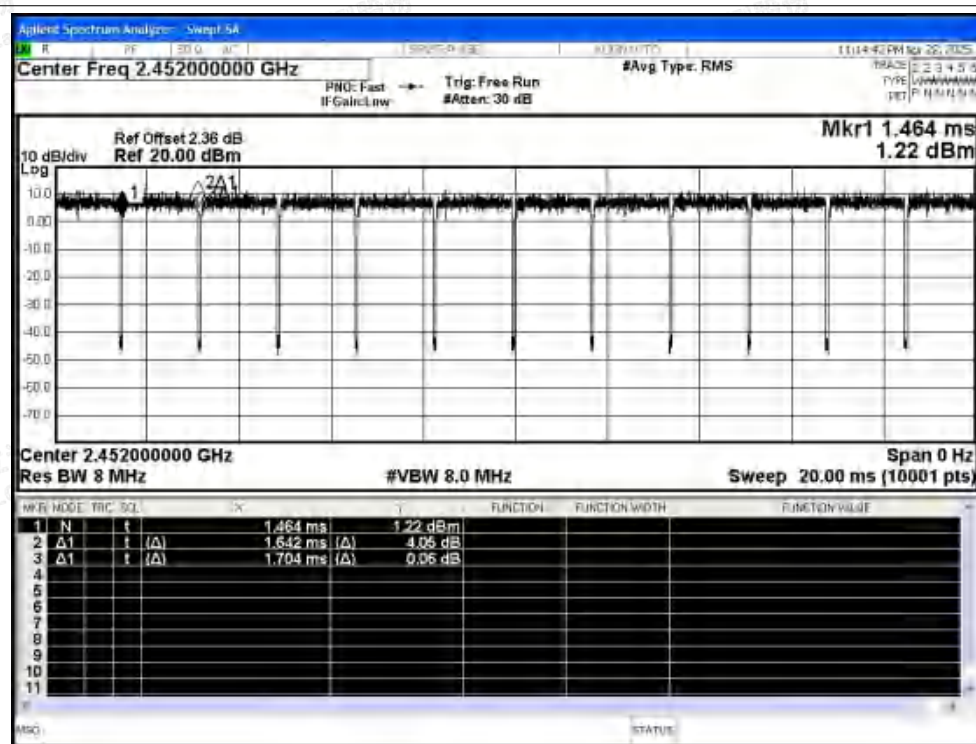


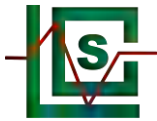


Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1





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	Ant0	2310	-49.51	3.81	-	49.56	Peak	74	Pass
NVNT	b	2412	Ant0	2310	-58.74	3.81	0	40.33	Average	54	Pass
NVNT	b	2412	Ant0	2353.29	-47.83	3.81	-	51.24	Peak	74	Pass
NVNT	b	2412	Ant0	2384.061	-57.33	3.81	0	41.74	Average	54	Pass
NVNT	b	2412	Ant0	2390	-50.68	3.81	-	48.39	Peak	74	Pass
NVNT	b	2412	Ant0	2390	-58.39	3.81	0	40.68	Average	54	Pass
NVNT	b	2462	Ant0	2483.5	-49.45	3.81	-	49.62	Peak	74	Pass
NVNT	b	2462	Ant0	2483.5	-57.54	3.81	0	41.53	Average	54	Pass
NVNT	b	2462	Ant0	2484.842	-46.26	3.81	-	52.81	Peak	74	Pass
NVNT	b	2462	Ant0	2498.728	-56.94	3.81	0	42.13	Average	54	Pass
NVNT	b	2462	Ant0	2500	-51.18	3.81	-	47.89	Peak	74	Pass
NVNT	b	2462	Ant0	2500	-57.67	3.81	0	41.4	Average	54	Pass
NVNT	g	2412	Ant0	2310	-50.09	3.81	-	48.98	Peak	74	Pass
NVNT	g	2412	Ant0	2310	-58.22	3.81	0.24	41.09	Average	54	Pass
NVNT	g	2412	Ant0	2389.794	-46.2	3.81	-	52.87	Peak	74	Pass
NVNT	g	2412	Ant0	2389.677	-56.34	3.81	0.24	42.97	Average	54	Pass
NVNT	g	2412	Ant0	2390	-48.69	3.81	-	50.38	Peak	74	Pass
NVNT	g	2412	Ant0	2390	-56.98	3.81	0.24	42.33	Average	54	Pass
NVNT	g	2462	Ant0	2483.5	-43.36	3.81	-	55.71	Peak	74	Pass
NVNT	g	2462	Ant0	2483.5	-56.07	3.81	0.24	43.24	Average	54	Pass
NVNT	g	2462	Ant0	2484.153	-39.17	3.81	-	59.9	Peak	74	Pass
NVNT	g	2462	Ant0	2484.418	-55.48	3.81	0.24	43.83	Average	54	Pass
NVNT	g	2462	Ant0	2500	-49.71	3.81	-	49.36	Peak	74	Pass
NVNT	g	2462	Ant0	2500	-57.7	3.81	0.24	41.61	Average	54	Pass
NVNT	n20	2412	Ant0	2310	-50.1	3.81	-	48.97	Peak	74	Pass
NVNT	n20	2412	Ant0	2310	-58.23	3.81	0.28	41.12	Average	54	Pass
NVNT	n20	2412	Ant0	2389.326	-44.96	3.81	-	54.11	Peak	74	Pass
NVNT	n20	2412	Ant0	2389.911	-56.02	3.81	0.28	43.33	Average	54	Pass
NVNT	n20	2412	Ant0	2390	-46.51	3.81	-	52.56	Peak	74	Pass
NVNT	n20	2412	Ant0	2390	-56.6	3.81	0.28	42.75	Average	54	Pass
NVNT	n20	2462	Ant0	2483.5	-42.76	3.81	-	56.31	Peak	74	Pass
NVNT	n20	2462	Ant0	2483.5	-56.27	3.81	0.29	43.09	Average	54	Pass
NVNT	n20	2462	Ant0	2484.948	-38.44	3.81	-	60.63	Peak	74	Pass
NVNT	n20	2462	Ant0	2484.365	-54.89	3.81	0.29	44.47	Average	54	Pass
NVNT	n20	2462	Ant0	2500	-49.71	3.81	-	49.36	Peak	74	Pass
NVNT	n20	2462	Ant0	2500	-57.55	3.81	0.29	41.81	Average	54	Pass

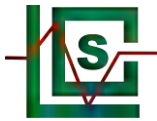


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NVNT	n40	2422	Ant0	2310	-50.74	3.81	-	48.33	Peak	74	Pass
NVNT	n40	2422	Ant0	2310	-58.17	3.81	0.54	41.44	Average	54	Pass
NVNT	n40	2422	Ant0	2388.242	-39.55	3.81	-	59.52	Peak	74	Pass
NVNT	n40	2422	Ant0	2389.236	-54.86	3.81	0.54	44.75	Average	54	Pass
NVNT	n40	2422	Ant0	2390	-45.46	3.81	-	53.61	Peak	74	Pass
NVNT	n40	2422	Ant0	2390	-55.39	3.81	0.54	44.22	Average	54	Pass
NVNT	n40	2452	Ant0	2483.5	-40.94	3.81	-	58.13	Peak	74	Pass
NVNT	n40	2452	Ant0	2483.5	-53.75	3.81	0.56	45.88	Average	54	Pass
NVNT	n40	2452	Ant0	2485.96	-38.22	3.81	-	60.85	Peak	74	Pass
NVNT	n40	2452	Ant0	2483.62	-53.99	3.81	0.56	45.64	Average	54	Pass
NVNT	n40	2452	Ant0	2500	-49.98	3.81	-	49.09	Peak	74	Pass
NVNT	n40	2452	Ant0	2500	-57.72	3.81	0.56	41.91	Average	54	Pass

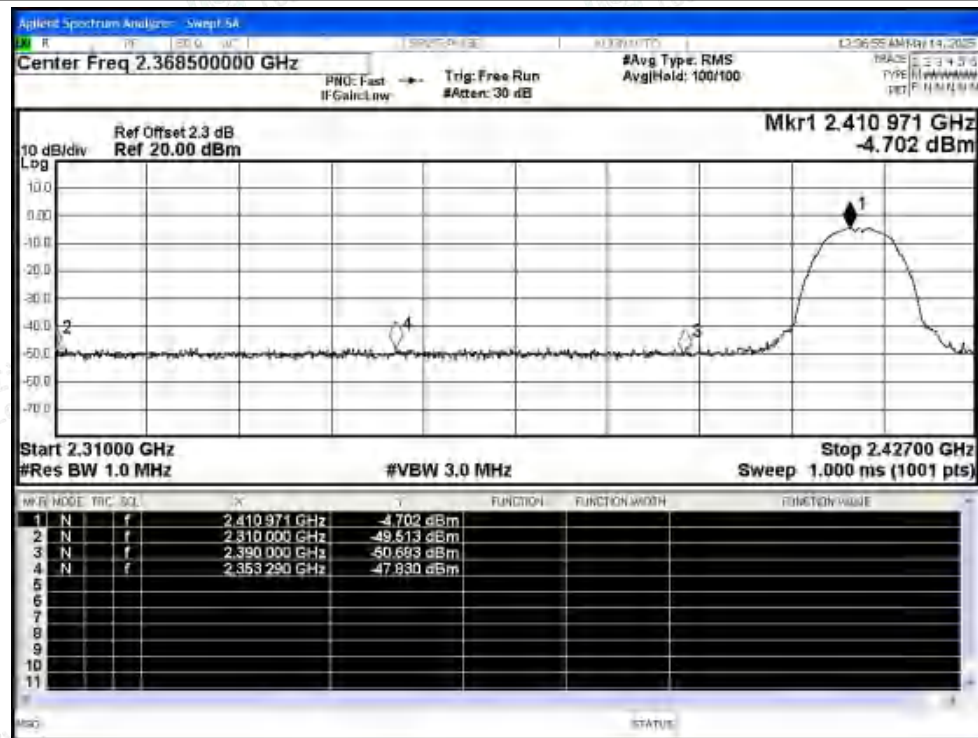


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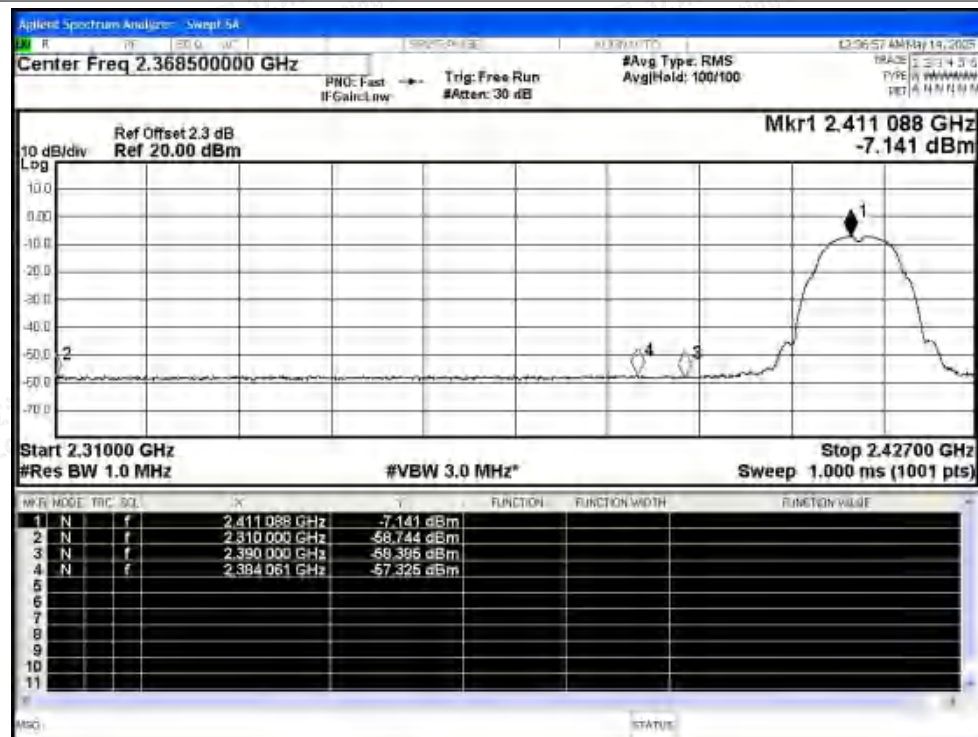


Test Graphs

Restrict Band NVNT b 2412MHz Ant0 Peak

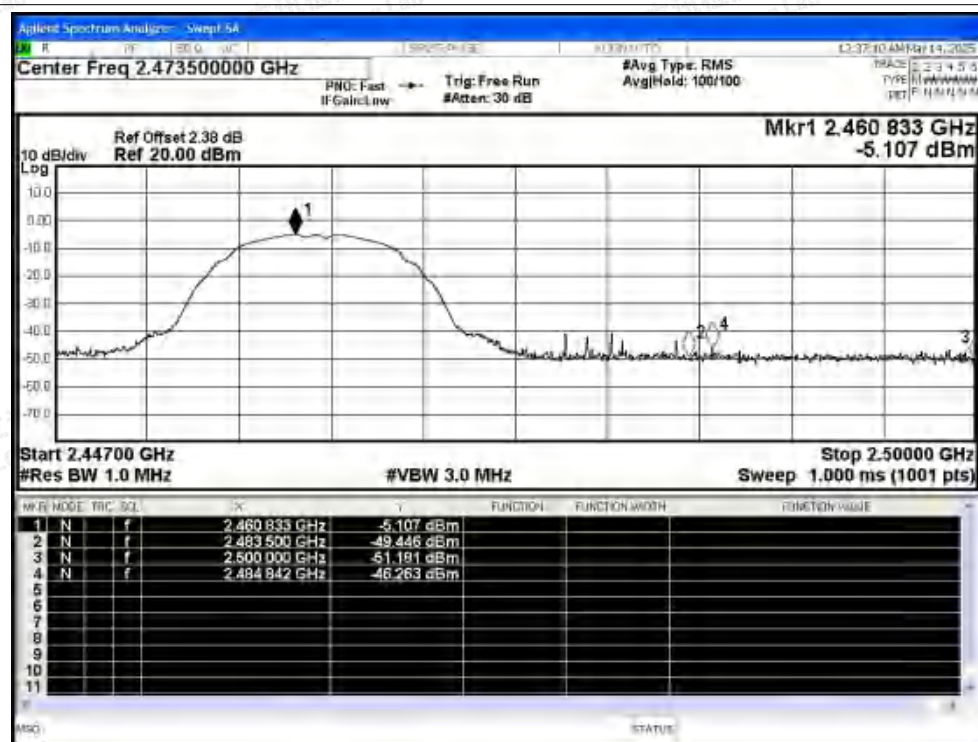


Restrict Band NVNT b 2412MHz Ant0 Average

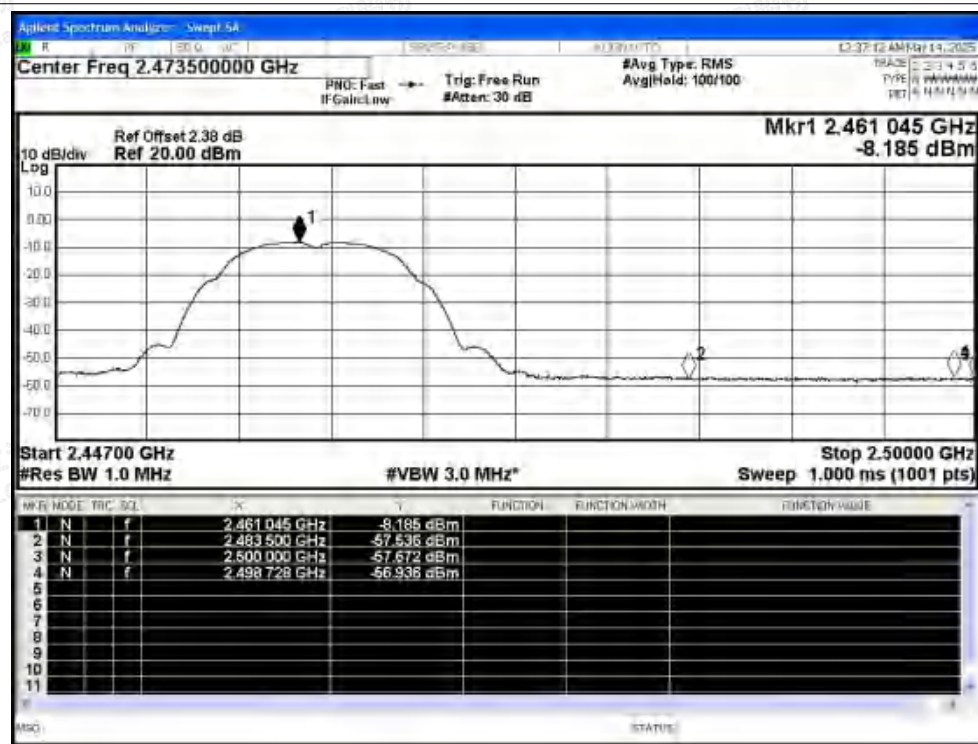




Restrict Band NVNT b 2462MHz Ant0 Peak



Restrict Band NVNT b 2462MHz Ant0 Average

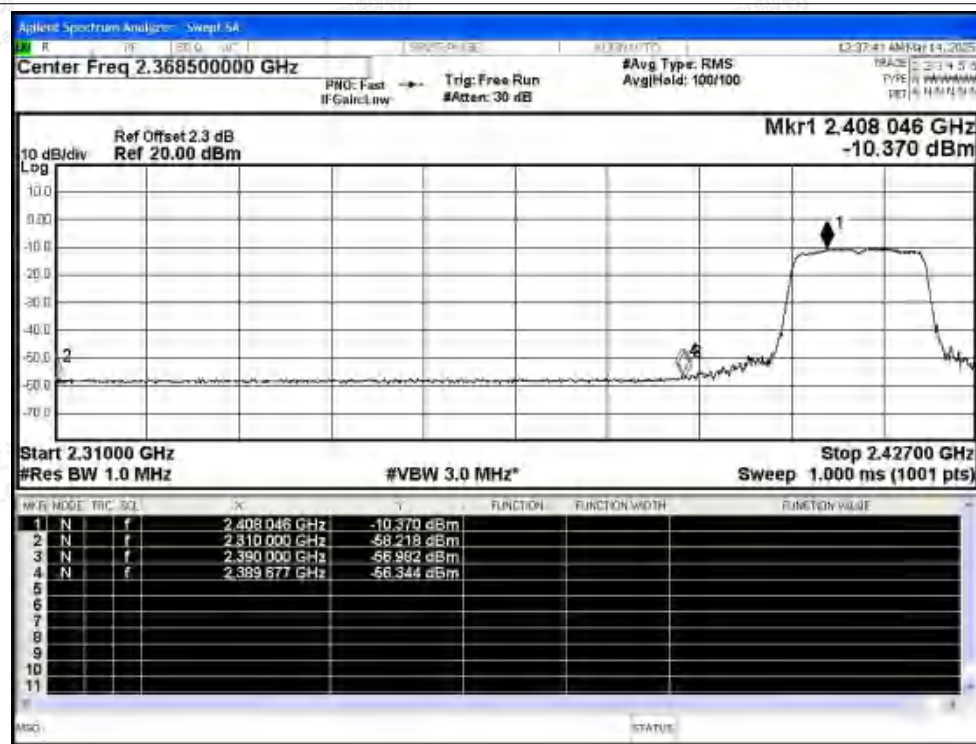




Restrict Band NVNT g 2412MHz Ant0 Peak



Restrict Band NVNT g 2412MHz Ant0 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

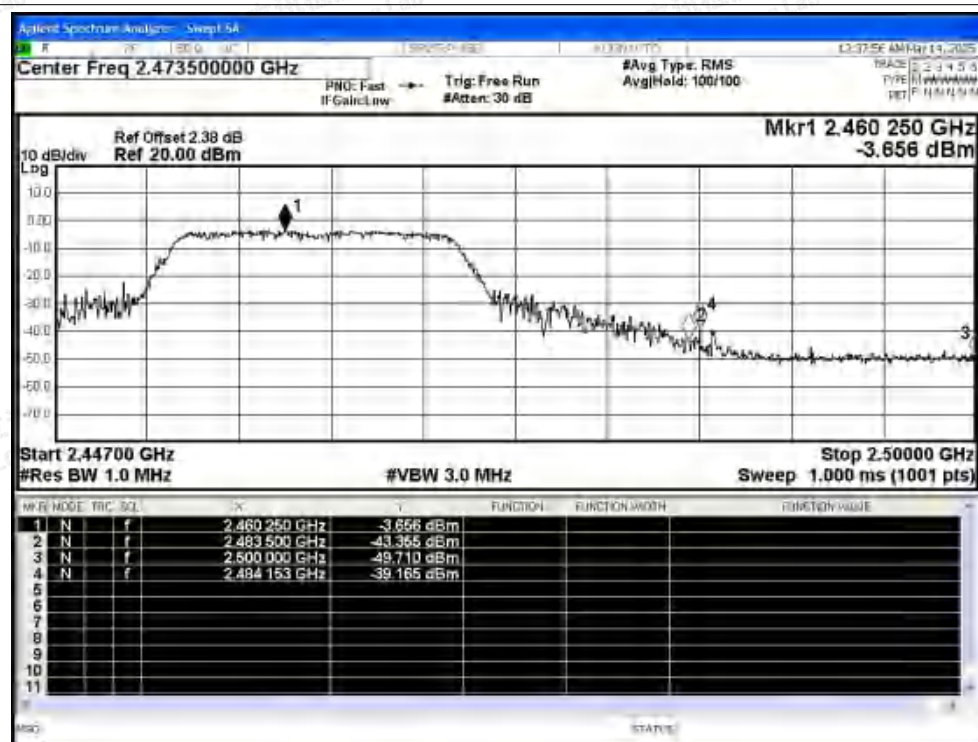
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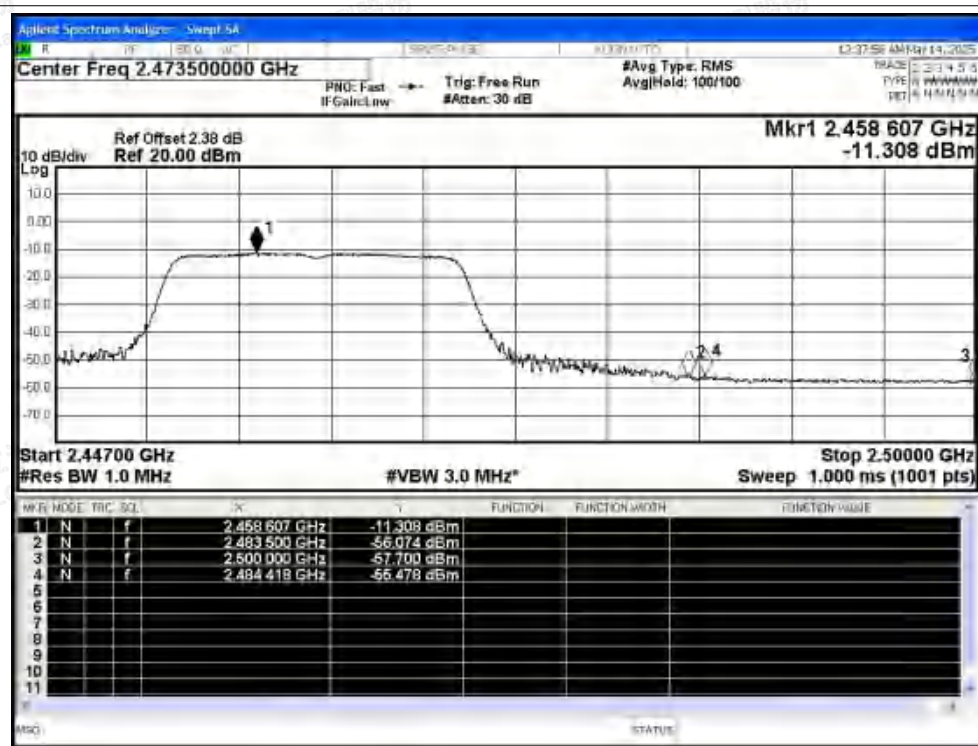
Scan code to check authenticity



Restrict Band NVNT g 2462MHz Ant0 Peak



Restrict Band NVNT g 2462MHz Ant0 Average

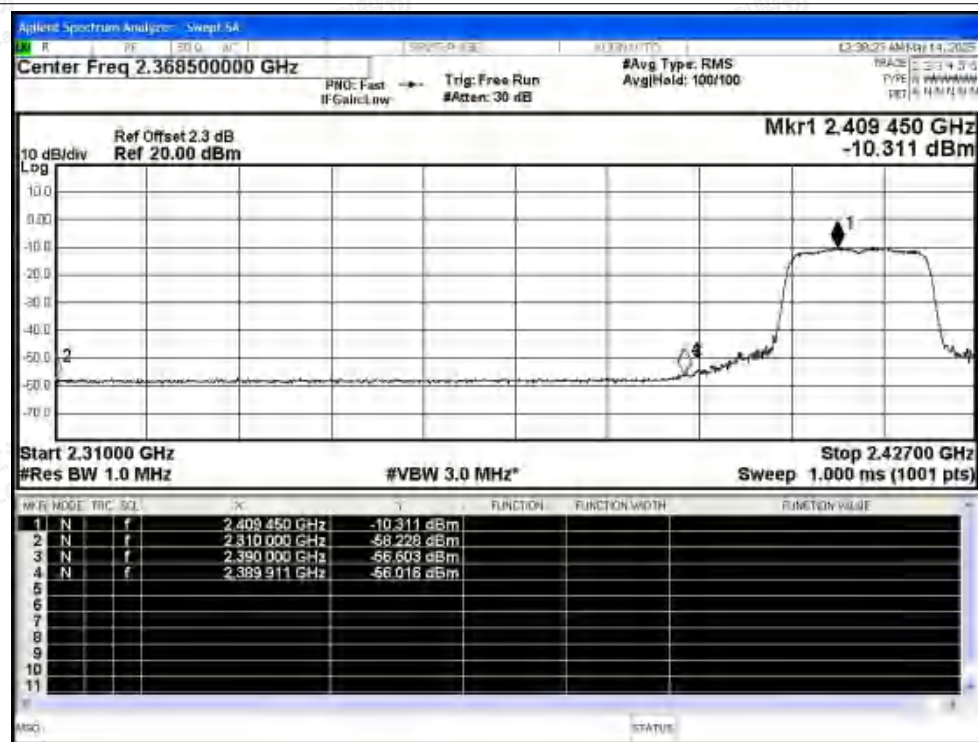




Restrict Band NVNT n20 2412MHz Ant0 Peak



Restrict Band NVNT n20 2412MHz Ant0 Average



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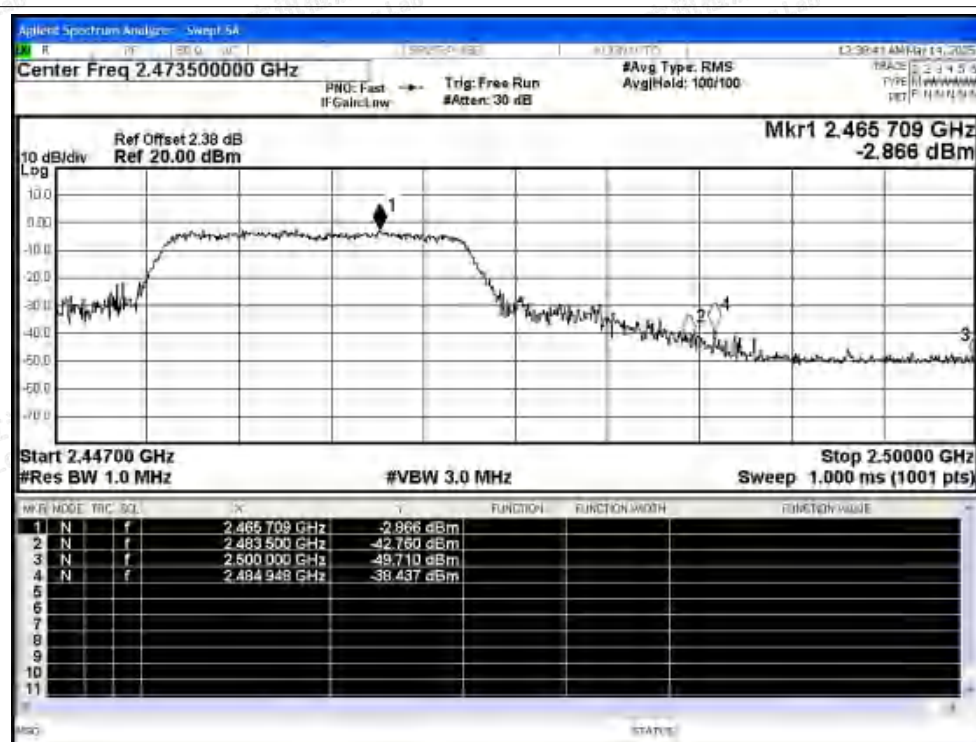
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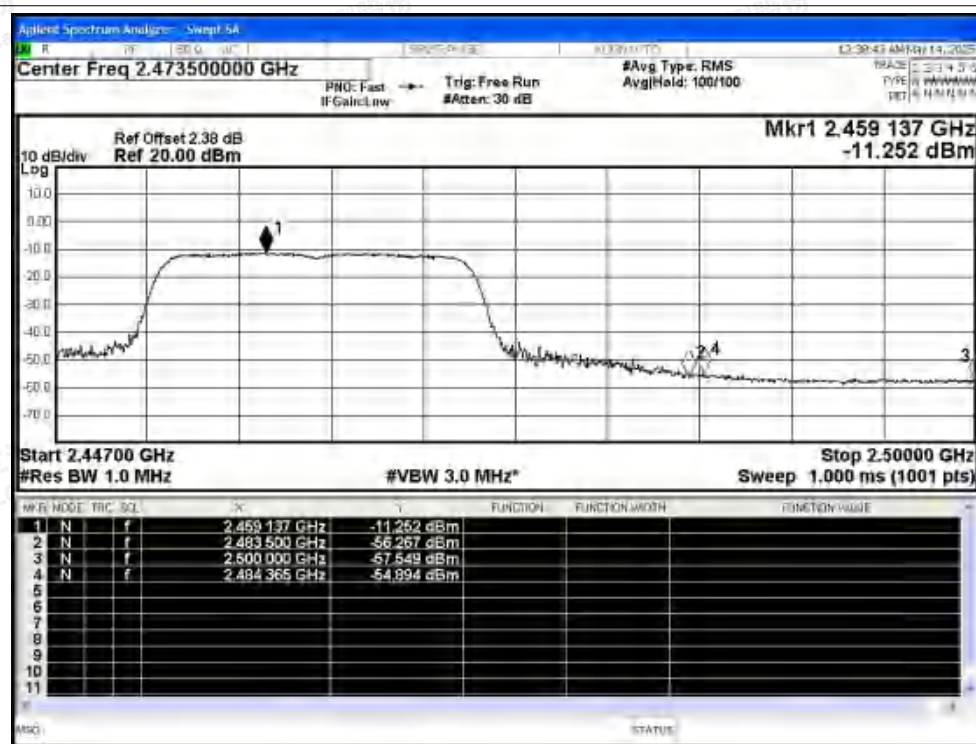
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Restrict Band NVNT n20 2462MHz Ant0 Peak



Restrict Band NVNT n20 2462MHz Ant0 Average



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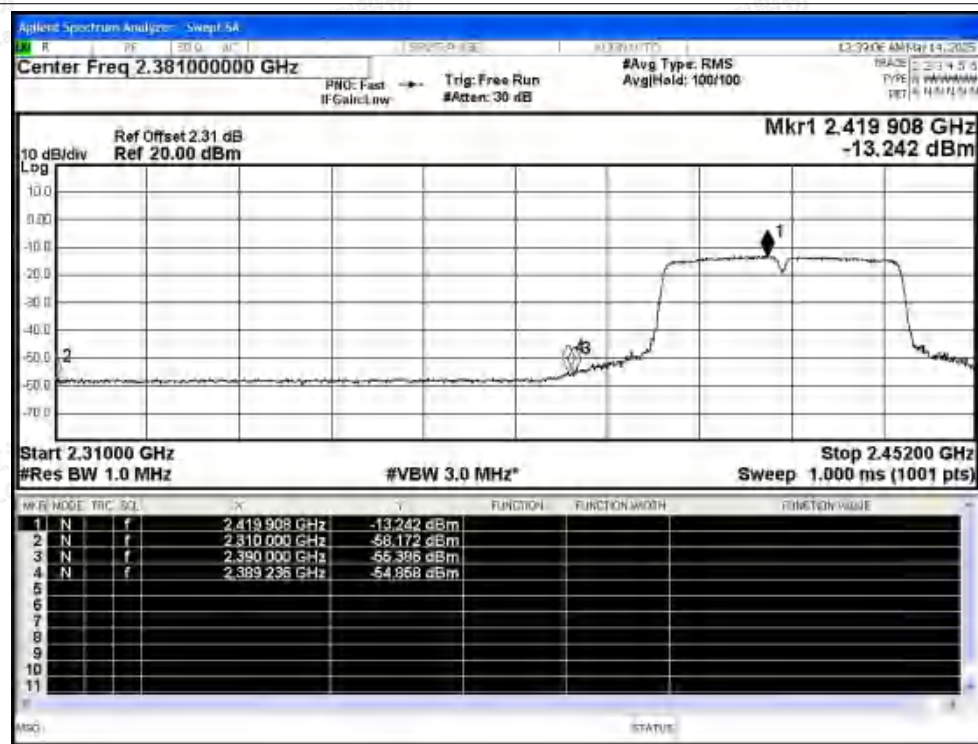
Scan code to check authenticity



Restrict Band NVNT n40 2422MHz Ant0 Peak

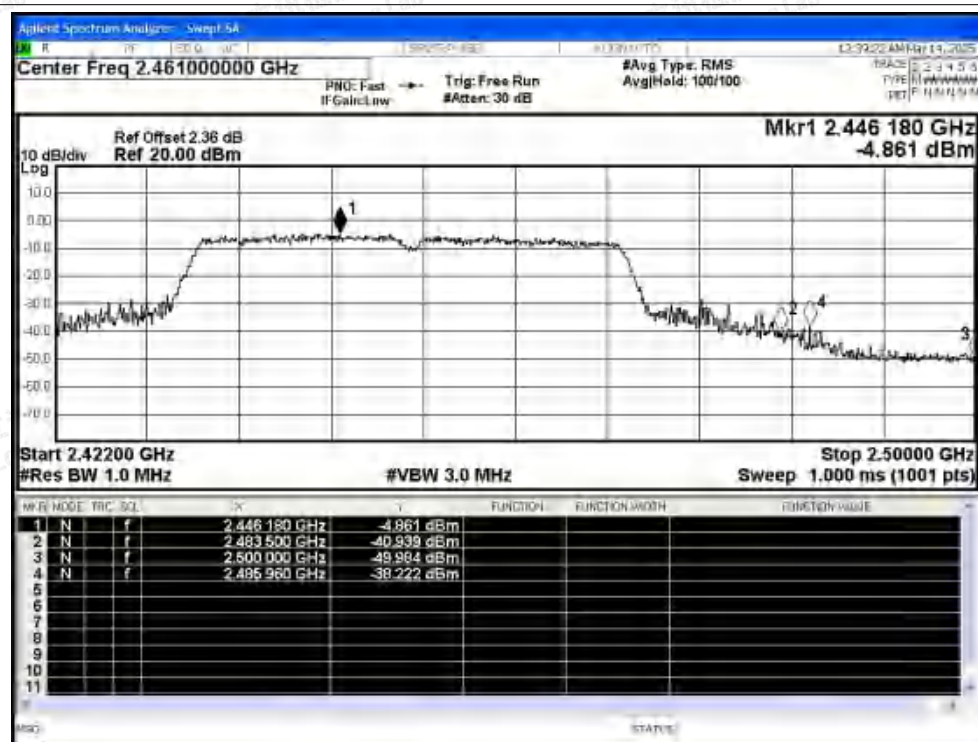


Restrict Band NVNT n40 2422MHz Ant0 Average

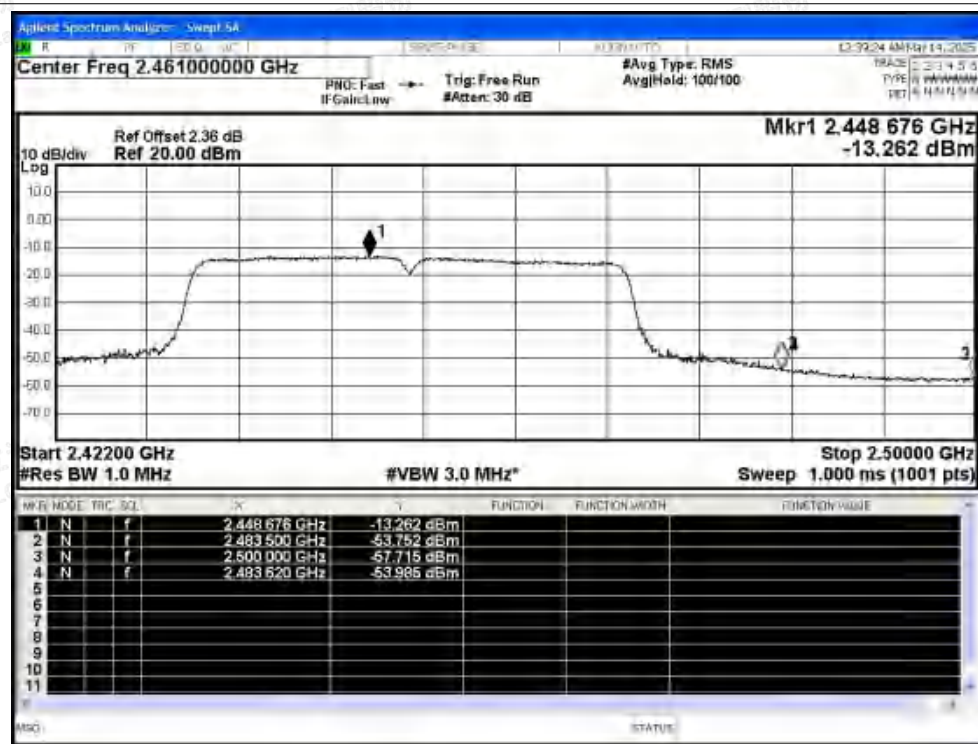




Restrict Band NVNT n40 2452MHz Ant0 Peak



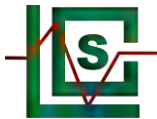
Restrict Band NVNT n40 2452MHz Ant0 Average





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	-51.1	3.19	-	47.35	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.57	3.19	0	39.88	Average	54	Pass
NVNT	b	2412	Ant1	2370.138	-47.44	3.19	-	51.01	Peak	74	Pass
NVNT	b	2412	Ant1	2377.392	-57.38	3.19	0	41.07	Average	54	Pass
NVNT	b	2412	Ant1	2390	-50.66	3.19	-	47.79	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-58.07	3.19	0	40.38	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-49.97	3.19	-	48.48	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-57.54	3.19	0	40.91	Average	54	Pass
NVNT	b	2462	Ant1	2489.771	-46.91	3.19	-	51.54	Peak	74	Pass
NVNT	b	2462	Ant1	2489.718	-56.87	3.19	0	41.58	Average	54	Pass
NVNT	b	2462	Ant1	2500	-48.98	3.19	-	49.47	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-58	3.19	0	40.45	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.15	3.19	-	48.3	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.6	3.19	0	39.85	Average	54	Pass
NVNT	g	2412	Ant1	2389.794	-45.94	3.19	-	52.51	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-57.04	3.19	0	41.41	Average	54	Pass
NVNT	g	2412	Ant1	2390	-46.45	3.19	-	52	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-57.16	3.19	0	41.29	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-44.7	3.19	-	53.75	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-55.77	3.19	0	42.68	Average	54	Pass
NVNT	g	2462	Ant1	2483.729	-41.09	3.19	-	57.36	Peak	74	Pass
NVNT	g	2462	Ant1	2483.729	-54.44	3.19	0	44.01	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.3	3.19	-	50.15	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-58.14	3.19	0	40.31	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.61	3.19	-	48.84	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.47	3.19	0	39.98	Average	54	Pass
NVNT	n20	2412	Ant1	2389.794	-44.16	3.19	-	54.29	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.326	-56.41	3.19	0	42.04	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-47.84	3.19	-	50.61	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-56.84	3.19	0	41.61	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-43.32	3.19	-	55.13	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-55.01	3.19	0	43.44	Average	54	Pass
NVNT	n20	2462	Ant1	2483.835	-39.25	3.19	-	59.2	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.888	-54.57	3.19	0	43.88	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-47.16	3.19	-	51.29	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-58.18	3.19	0	40.27	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-50.2	3.19	-	48.25	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-58.35	3.19	0.16	40.26	Average	54	Pass





NVNT	n40	2422	Ant1	2389.946	-38.41	3.19	-	60.04	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.236	-54.98	3.19	0.16	43.63	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-38.41	3.19	-	60.04	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-55.15	3.19	0.16	43.46	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-39.95	3.19	-	58.5	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-53.7	3.19	0.16	44.91	Average	54	Pass
NVNT	n40	2452	Ant1	2485.414	-37.47	3.19	-	60.98	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.542	-54.01	3.19	0.16	44.6	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-49.71	3.19	-	48.74	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-58.37	3.19	0.16	40.24	Average	54	Pass

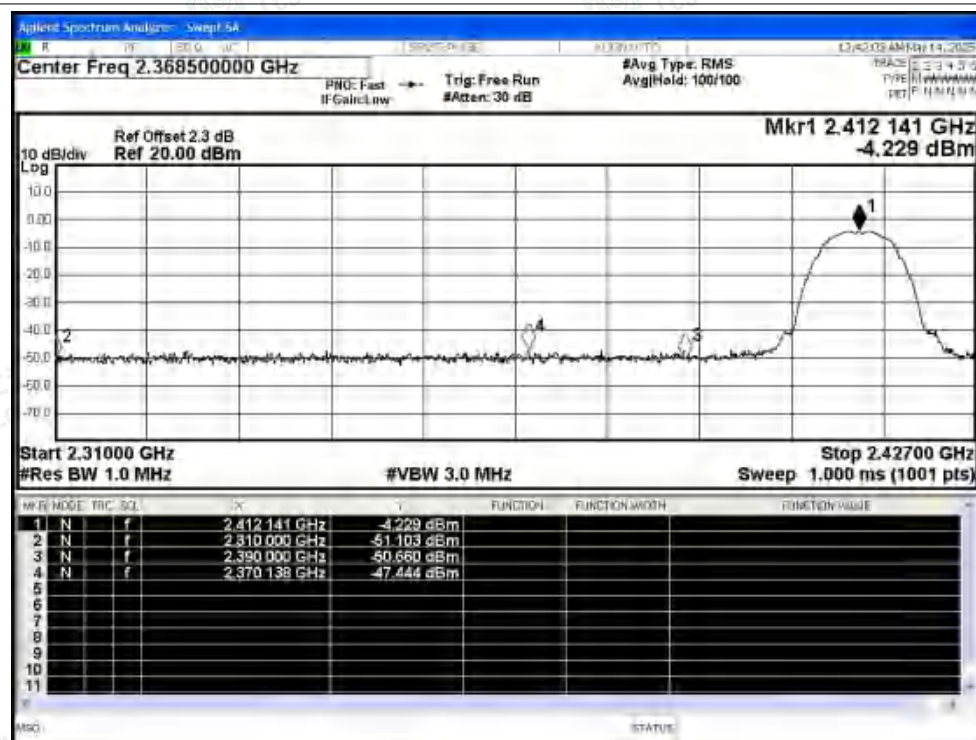


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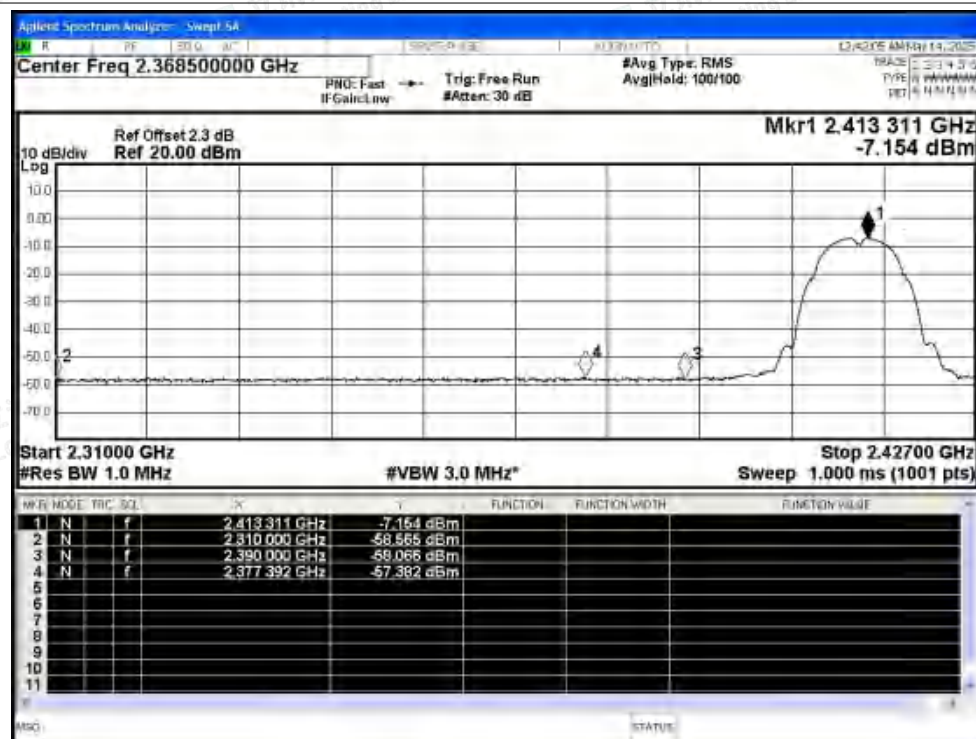


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak

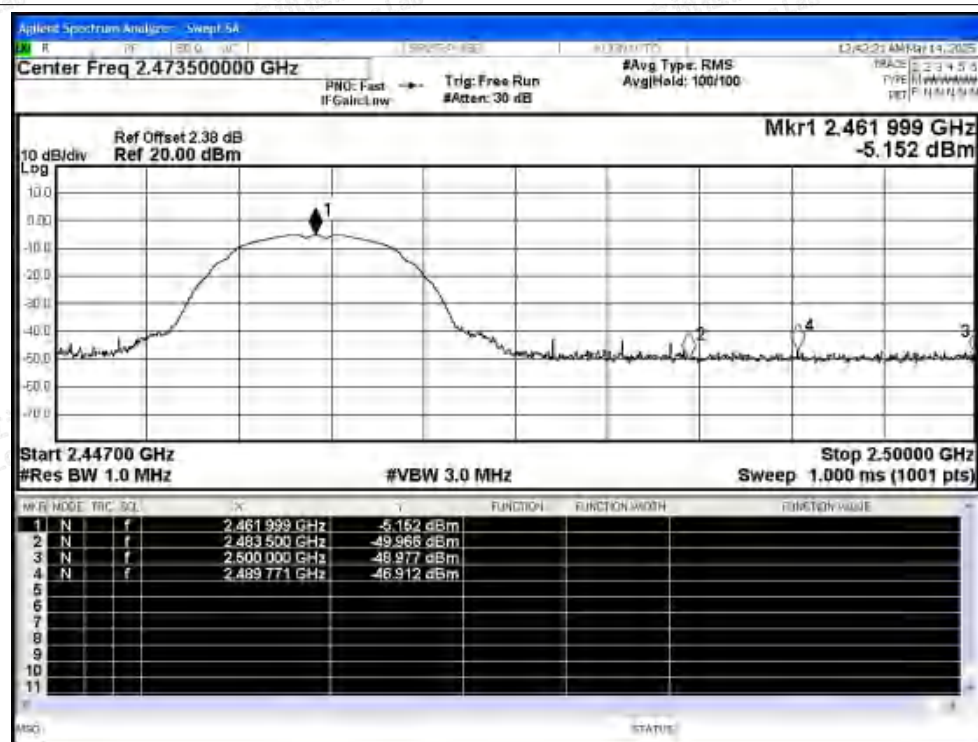


Restrict Band NVNT b 2412MHz Ant1 Average

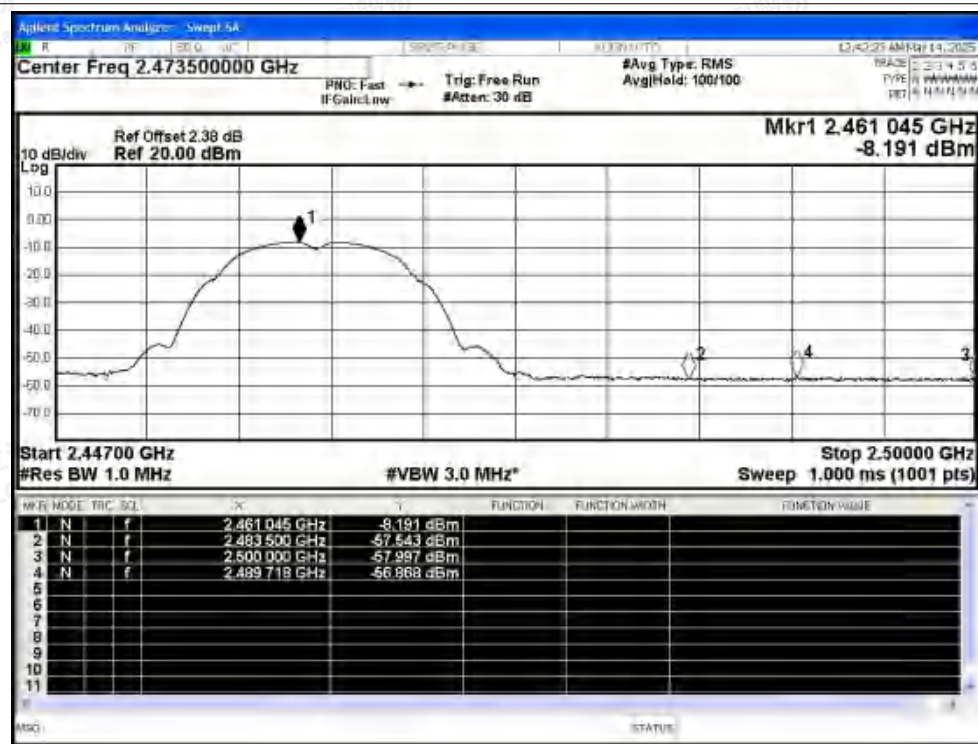




Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak

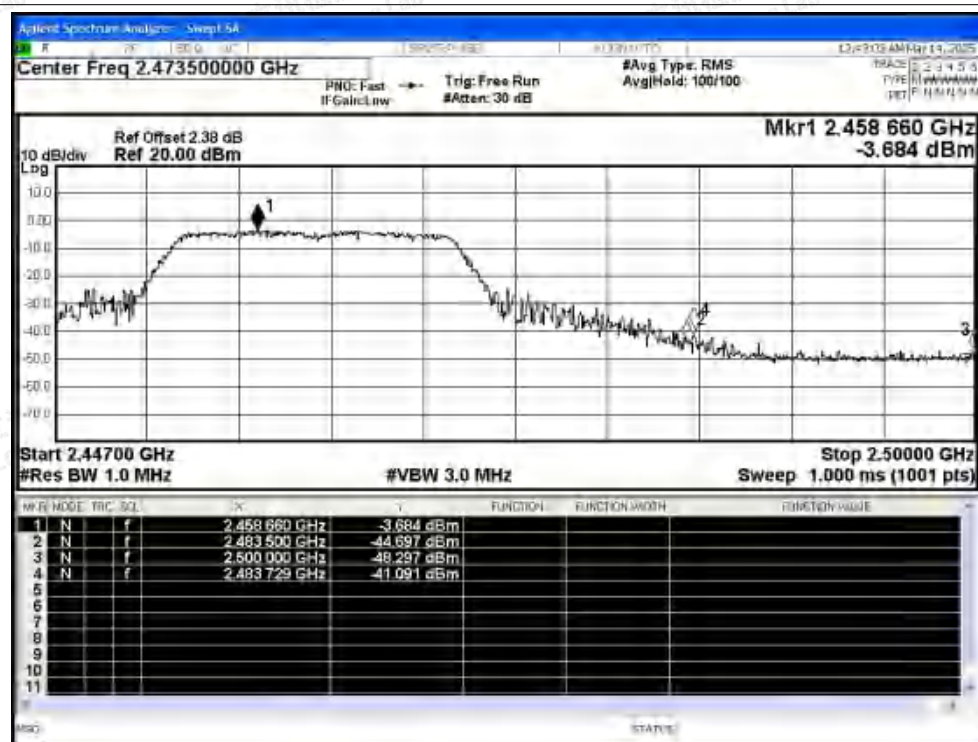


Restrict Band NVNT g 2412MHz Ant1 Average

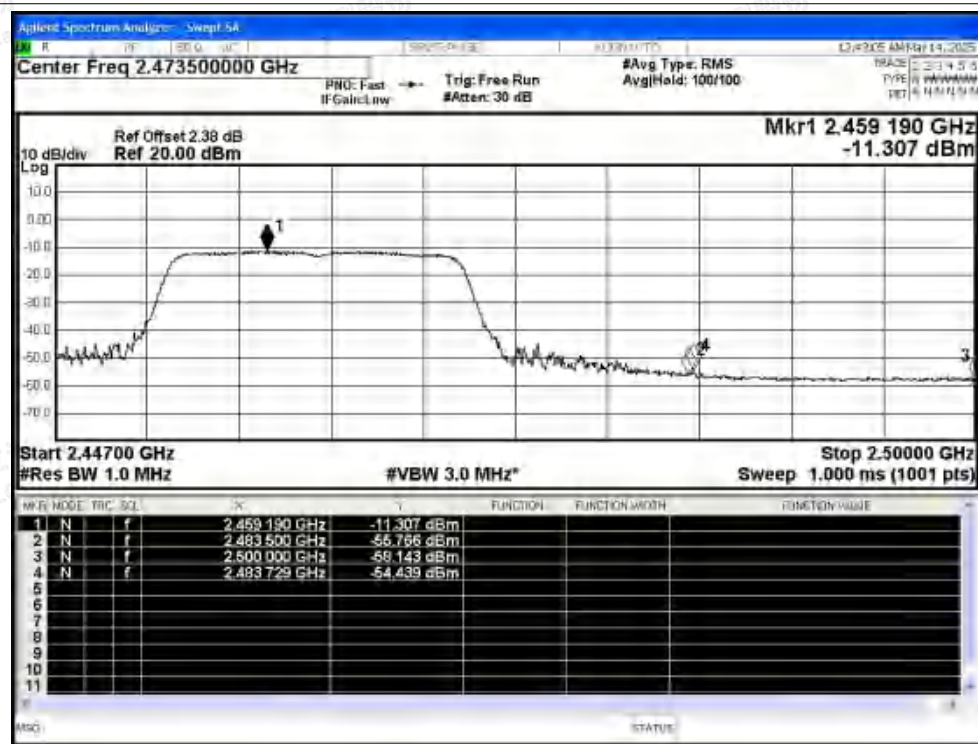




Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

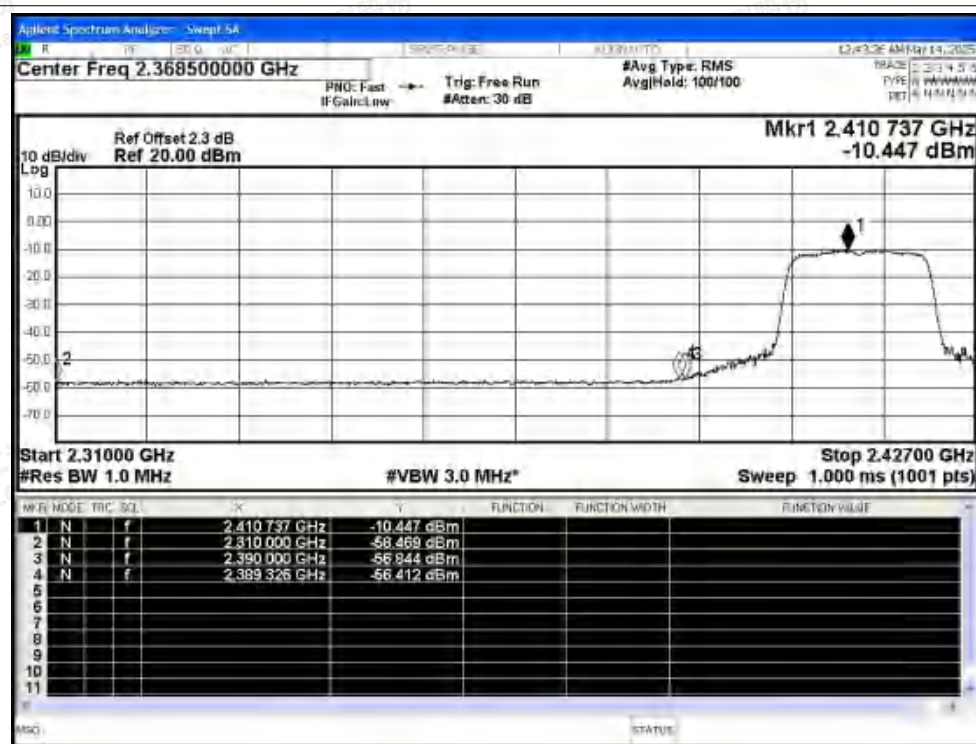




Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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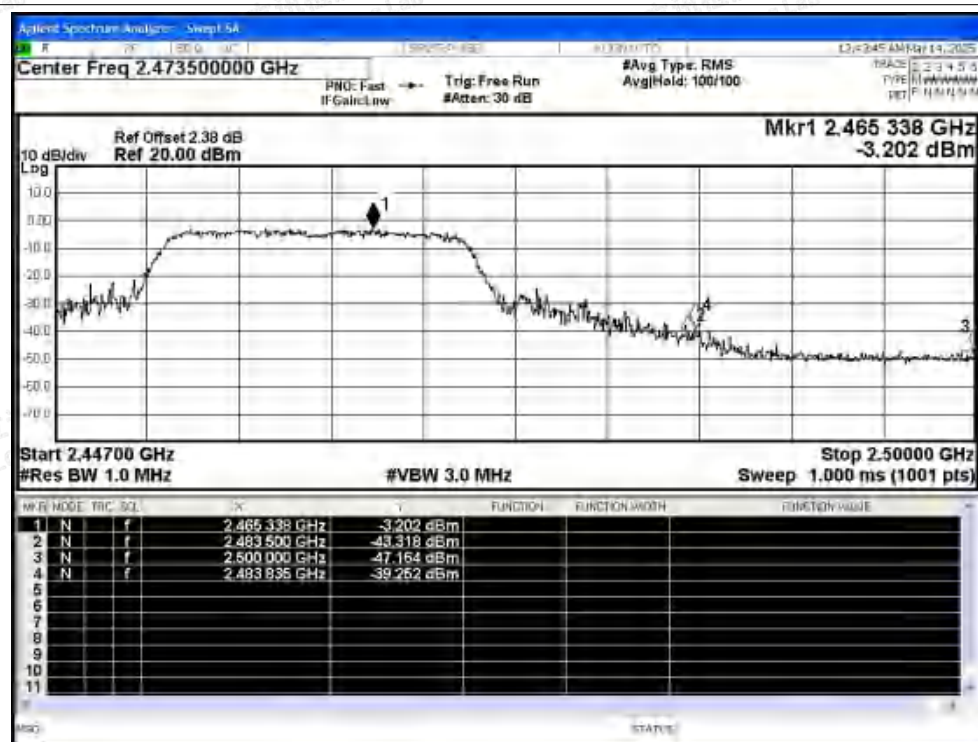
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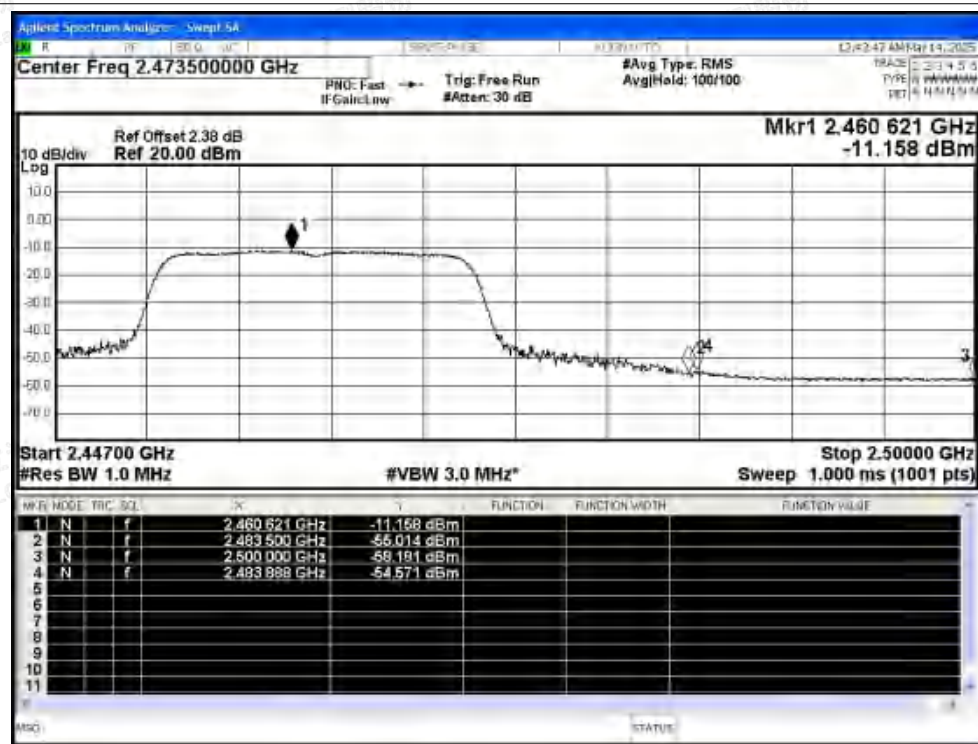
Scan code to check authenticity



Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average

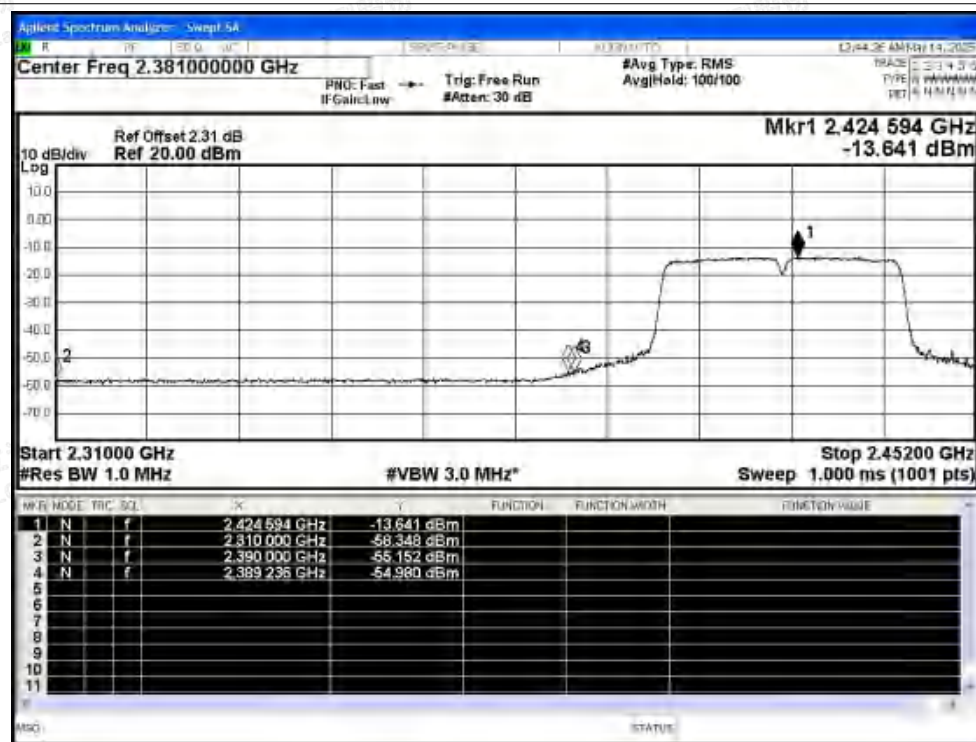




Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average



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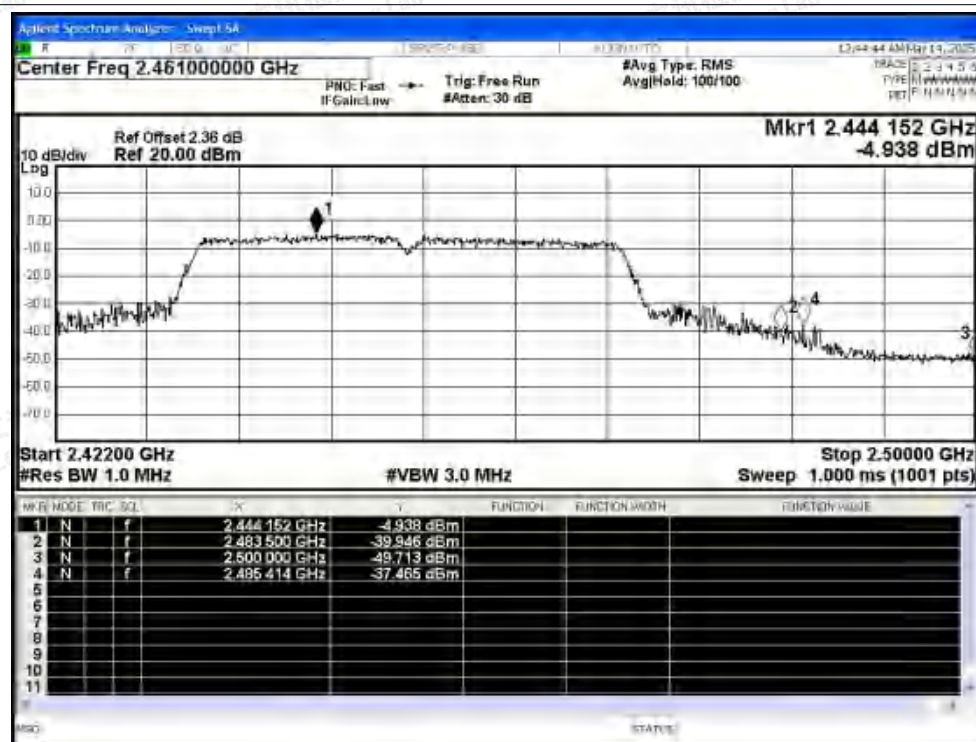
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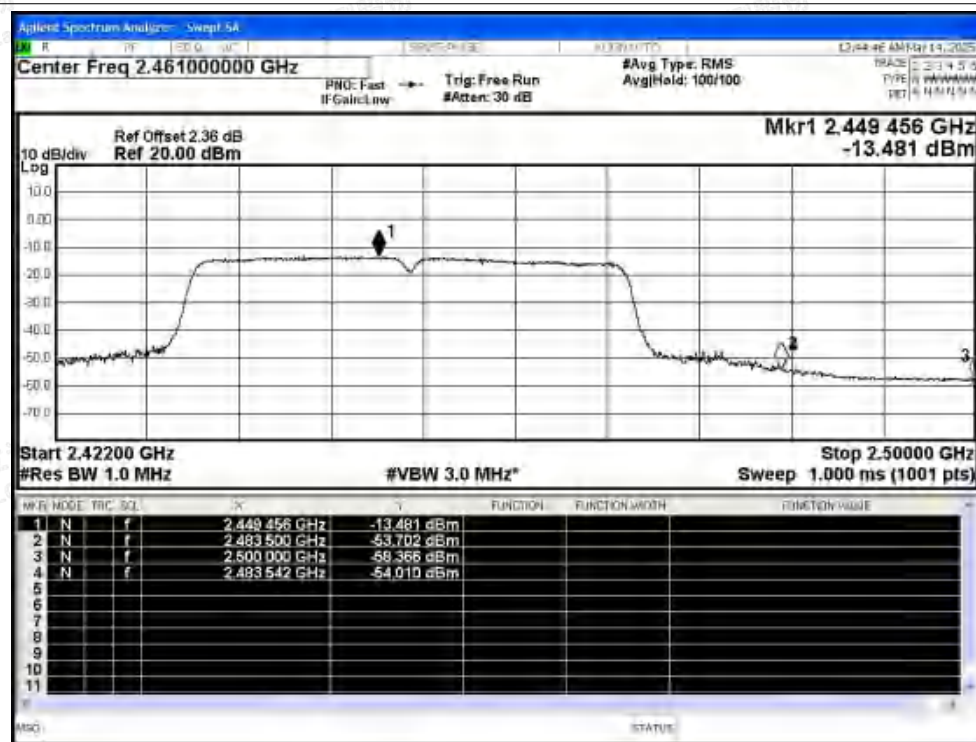
Scan code to check authenticity



Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average

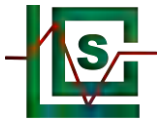


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MIMO

Condition	Mode	Frequency (MHz)	Ant0 Power (dBm)	Ant1 Power (dBm)	SUM	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	2412	-50.1	-49.61	-48.46	6.52	54.94	Peak	74	Pass
NVNT	n20	2412	-58.23	-58.47	-55.76	6.52	46.44	Average	54	Pass
NVNT	n20	2412	-44.96	-44.16	-32.13	6.52	60.25	Peak	74	Pass
NVNT	n20	2412	-56.02	-56.41	-49.93	6.52	48.58	Average	54	Pass
NVNT	n20	2412	-46.51	-47.84	-35.28	6.52	57.66	Peak	74	Pass
NVNT	n20	2412	-56.6	-56.84	-49.95	6.52	48.07	Average	54	Pass
NVNT	n20	2462	-42.76	-43.32	-26.16	6.52	61.76	Peak	74	Pass
NVNT	n20	2462	-56.27	-55.01	-43.00	6.52	49.19	Average	54	Pass
NVNT	n20	2462	-38.44	-39.25	-25.35	6.52	65.96	Peak	74	Pass
NVNT	n20	2462	-54.89	-54.57	-42.84	6.52	50.06	Average	54	Pass
NVNT	n20	2462	-49.71	-47.16	-45.66	6.52	56.54	Peak	74	Pass
NVNT	n20	2462	-57.55	-58.18	-54.95	6.52	46.93	Average	54	Pass
NVNT	n40	2422	-50.74	-50.2	-47.28	6.52	54.33	Peak	74	Pass
NVNT	n40	2422	-58.17	-58.35	-55.29	6.52	46.53	Average	54	Pass
NVNT	n40	2422	-39.55	-38.41	-34.34	6.52	65.85	Peak	74	Pass
NVNT	n40	2422	-54.86	-54.98	-49.65	6.52	49.87	Average	54	Pass
NVNT	n40	2422	-45.46	-38.41	-38.10	6.52	64.15	Peak	74	Pass
NVNT	n40	2422	-55.39	-55.15	-49.89	6.52	49.52	Average	54	Pass
NVNT	n40	2452	-40.94	-39.95	-28.28	6.52	64.37	Peak	74	Pass
NVNT	n40	2452	-53.75	-53.7	-43.31	6.52	51.06	Average	54	Pass
NVNT	n40	2452	-38.22	-37.47	-24.82	6.52	66.96	Peak	74	Pass
NVNT	n40	2452	-53.99	-54.01	-42.43	6.52	50.79	Average	54	Pass
NVNT	n40	2452	-49.98	-49.71	-47.45	6.52	54.94	Peak	74	Pass
NVNT	n40	2452	-57.72	-58.37	-54.44	6.52	46.76	Average	54	Pass



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