



# Appendix C

## RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Smart ARM PC BOX

Test Model: AIB-3566

### Environmental Conditions

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





### C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.06	>=0.5	Pass
NVNT	b	2437	Ant1	9.575	>=0.5	Pass
NVNT	b	2462	Ant1	9.118	>=0.5	Pass
NVNT	g	2412	Ant1	16.357	>=0.5	Pass
NVNT	g	2437	Ant1	16.339	>=0.5	Pass
NVNT	g	2462	Ant1	16.392	>=0.5	Pass
NVNT	n20	2412	Ant1	17.579	>=0.5	Pass
NVNT	n20	2437	Ant1	17.585	>=0.5	Pass
NVNT	n20	2462	Ant1	17.568	>=0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

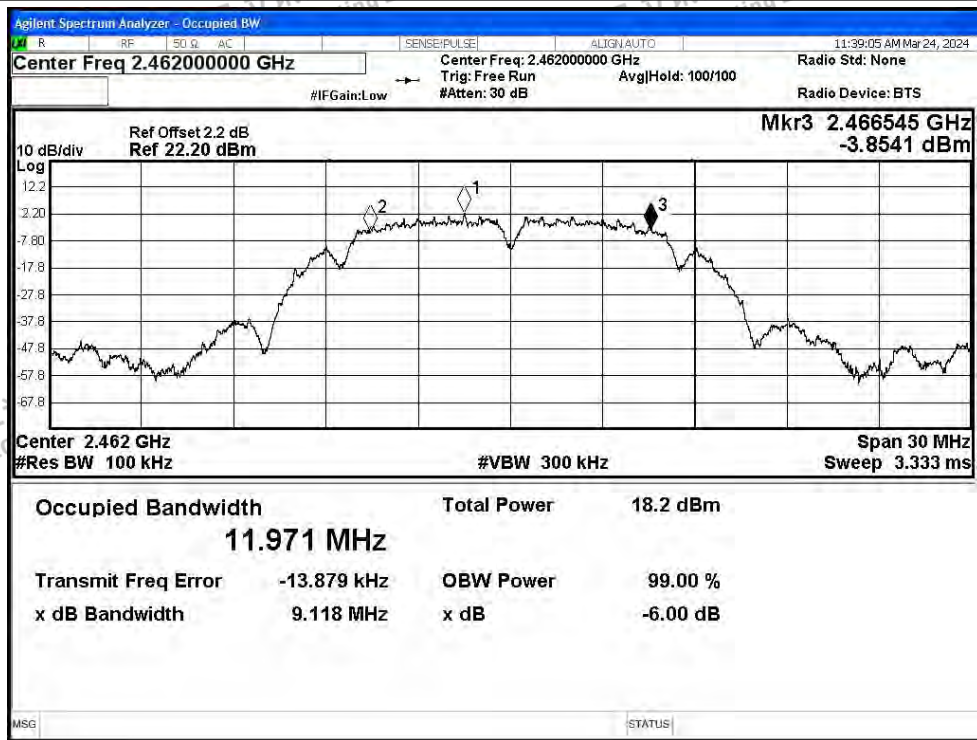


-6dB Bandwidth NVNT b 2437MHz Ant1

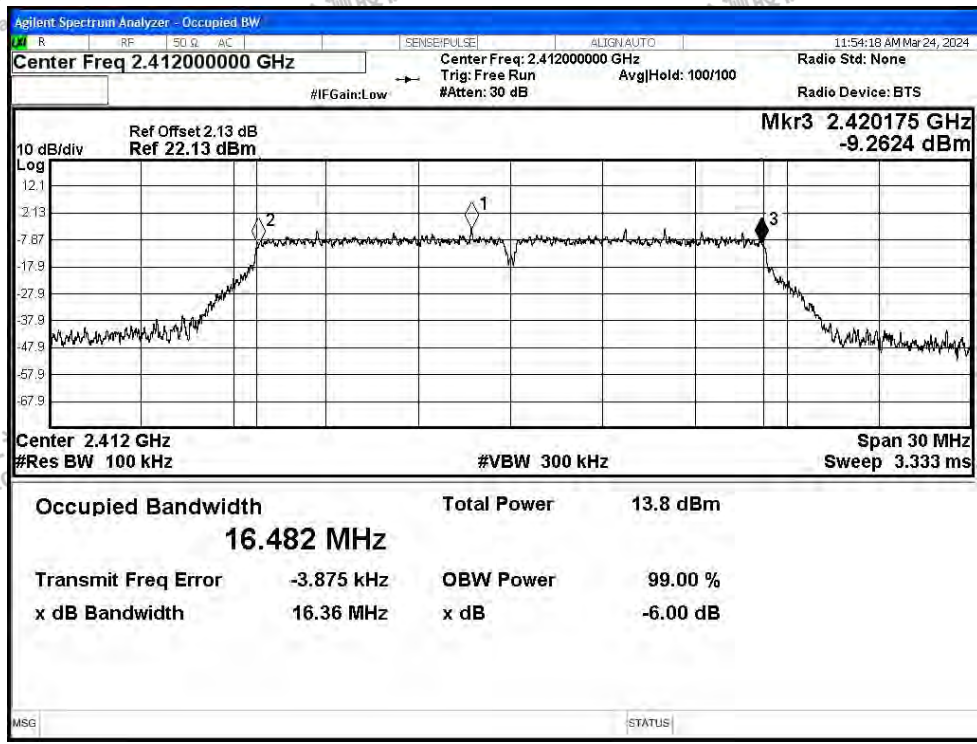




-6dB Bandwidth NVNT b 2462MHz Ant1

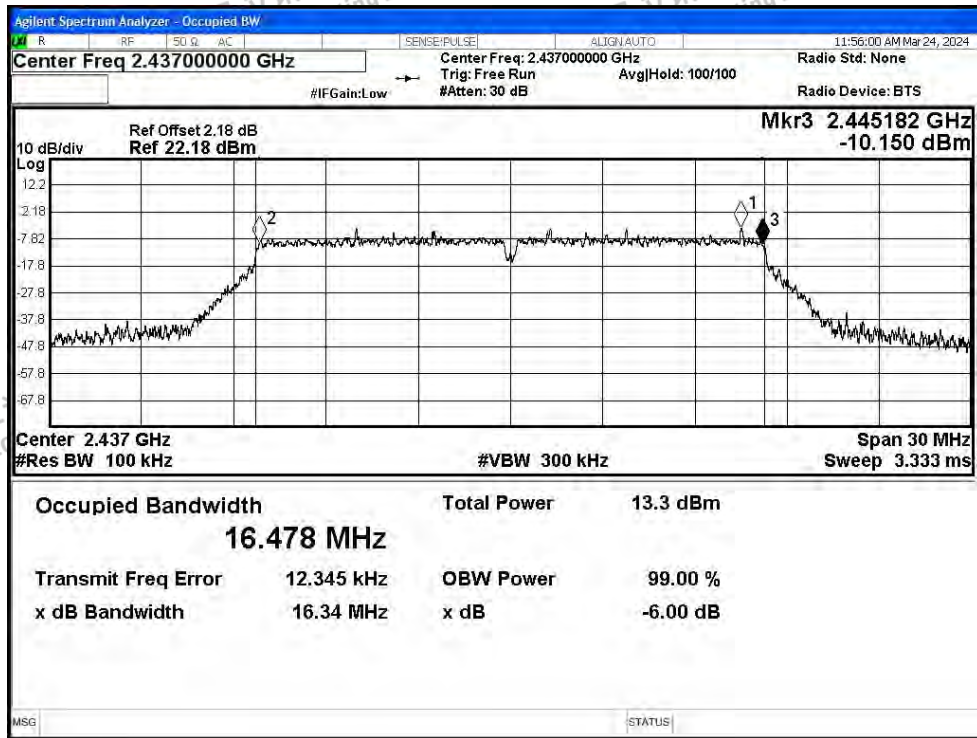


-6dB Bandwidth NVNT g 2412MHz Ant1

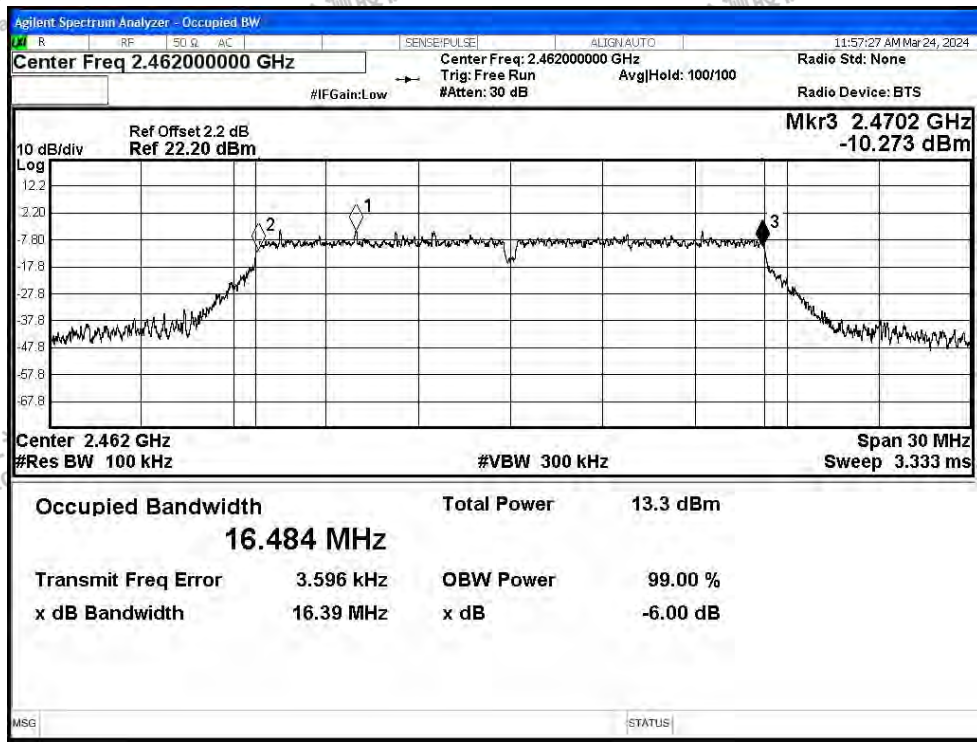




-6dB Bandwidth NVNT g 2437MHz Ant1

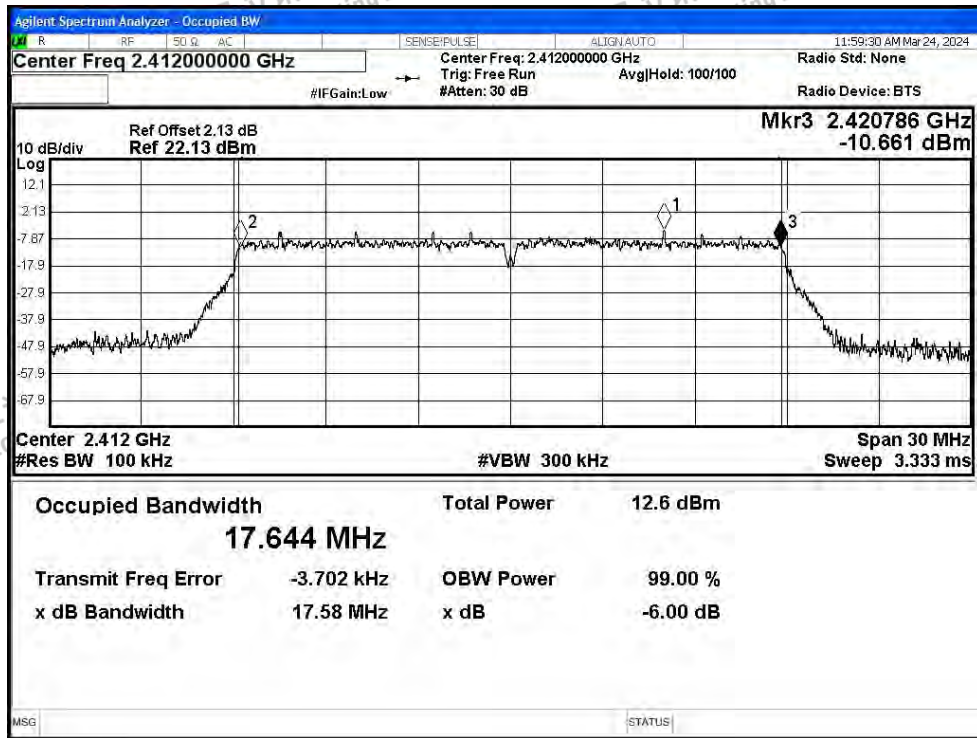


-6dB Bandwidth NVNT g 2462MHz Ant1

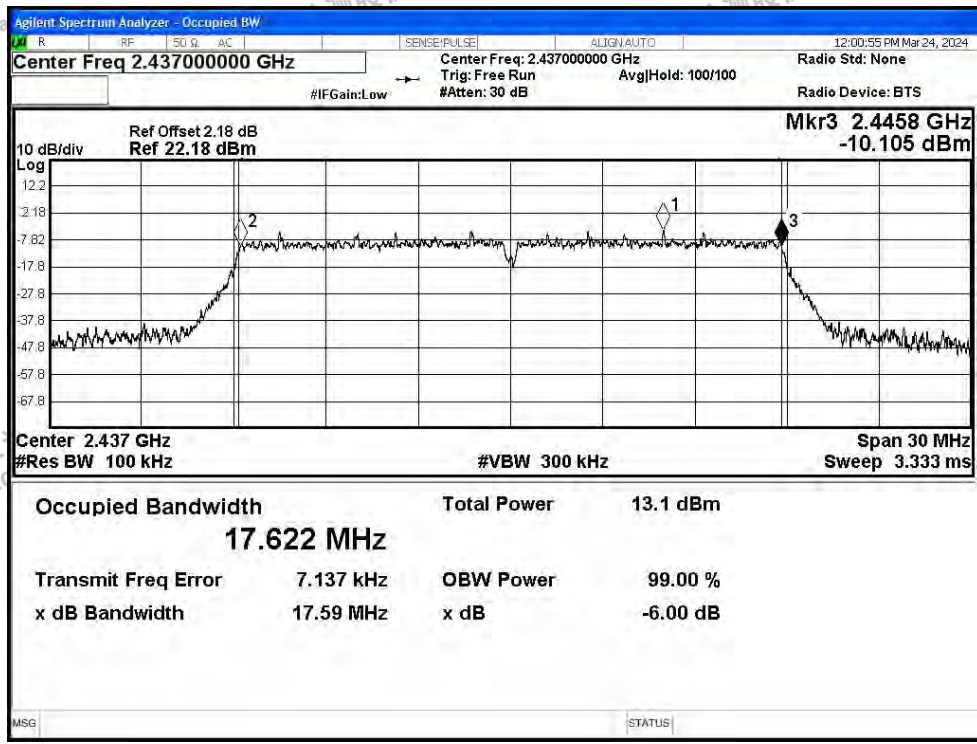




-6dB Bandwidth NVNT n20 2412MHz Ant1

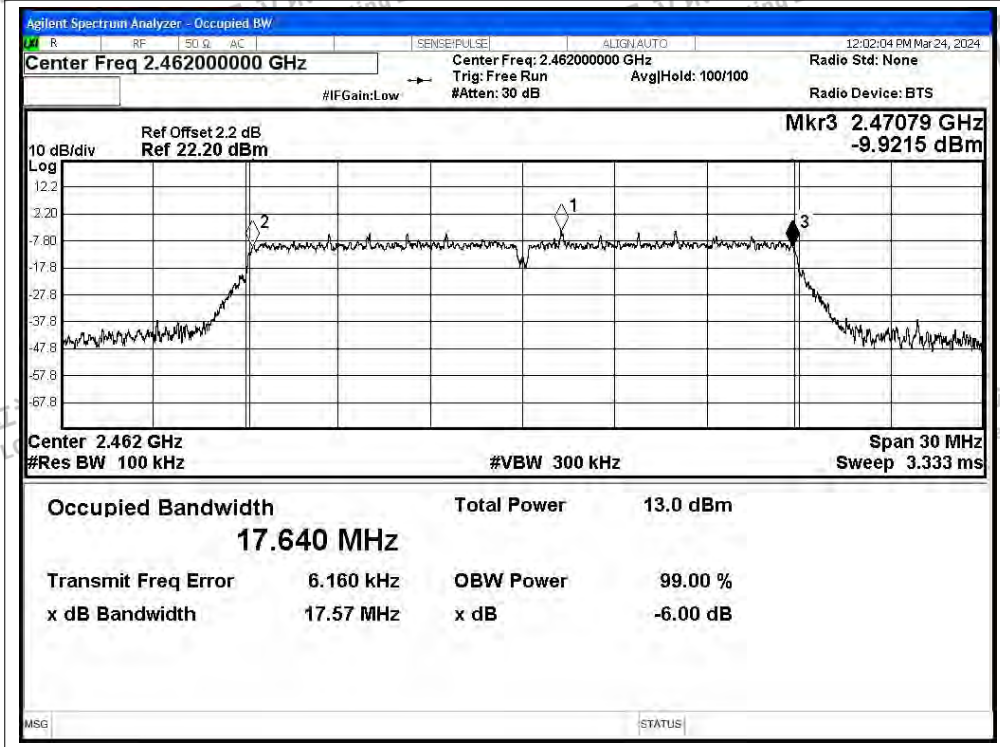


-6dB Bandwidth NVNT n20 2437MHz Ant1





-6dB Bandwidth NVNT n20 2462MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	9.06	>=0.5	Pass
NVNT	b	2437	Ant2	9	>=0.5	Pass
NVNT	b	2462	Ant2	9.073	>=0.5	Pass
NVNT	g	2412	Ant2	16.361	>=0.5	Pass
NVNT	g	2437	Ant2	16.353	>=0.5	Pass
NVNT	g	2462	Ant2	16.332	>=0.5	Pass
NVNT	n20	2412	Ant2	17.589	>=0.5	Pass
NVNT	n20	2437	Ant2	17.572	>=0.5	Pass
NVNT	n20	2462	Ant2	17.594	>=0.5	Pass



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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant2

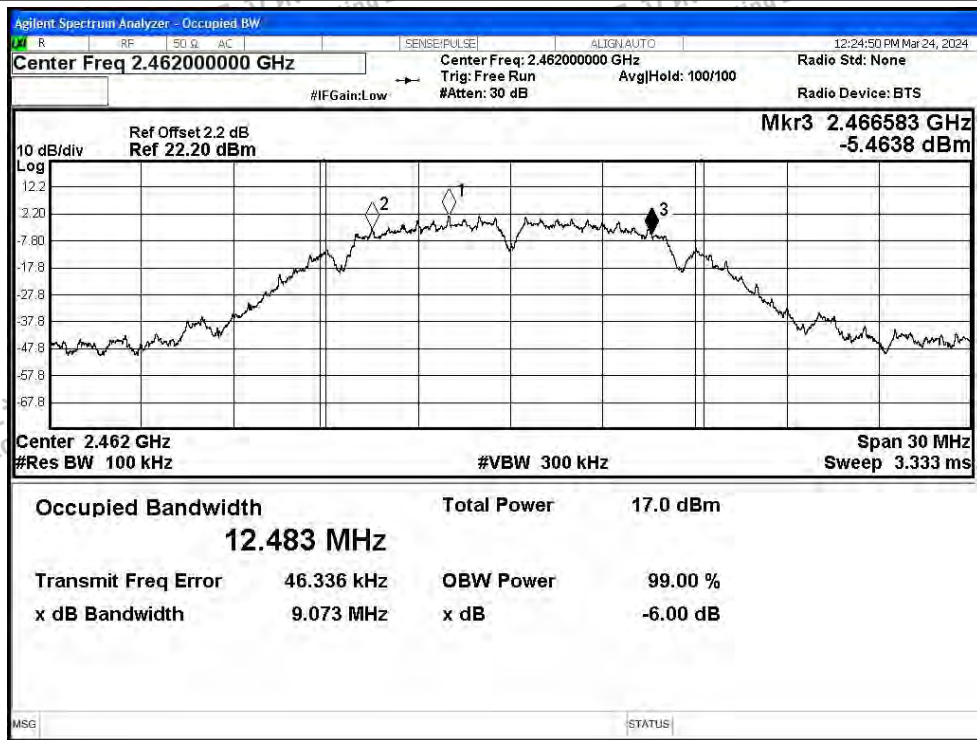


-6dB Bandwidth NVNT b 2437MHz Ant2

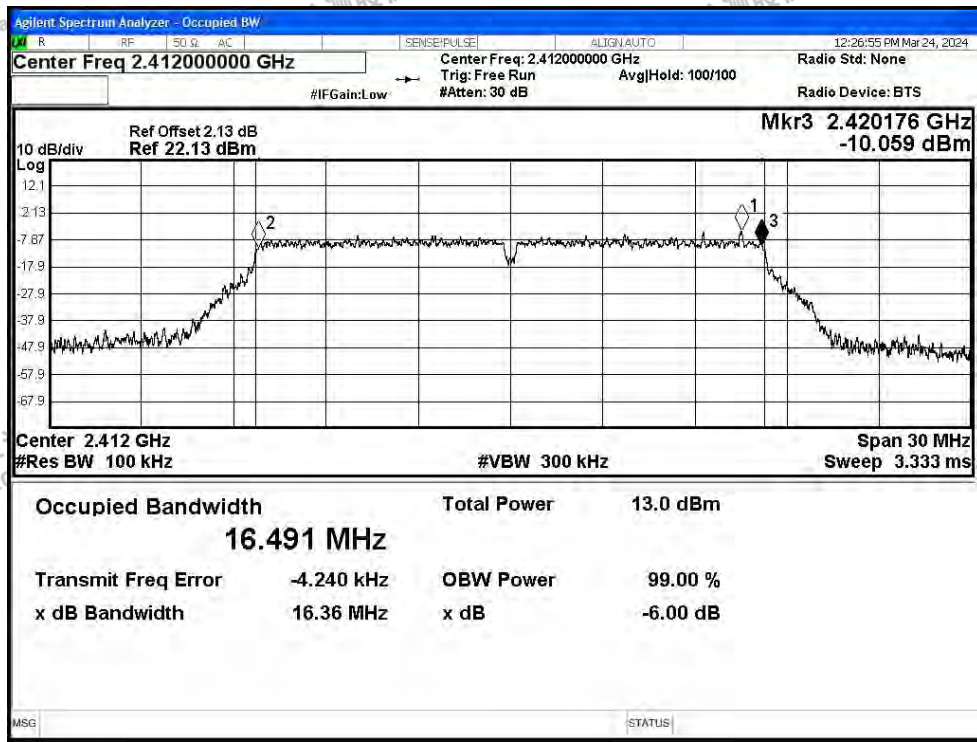




-6dB Bandwidth NVNT b 2462MHz Ant2

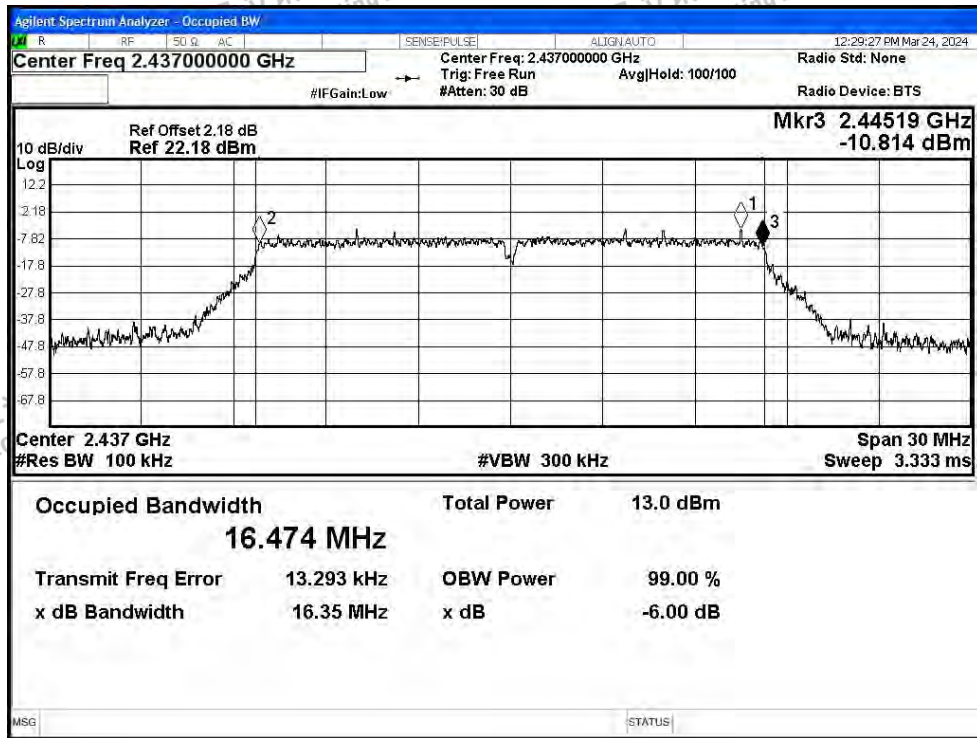


-6dB Bandwidth NVNT g 2412MHz Ant2

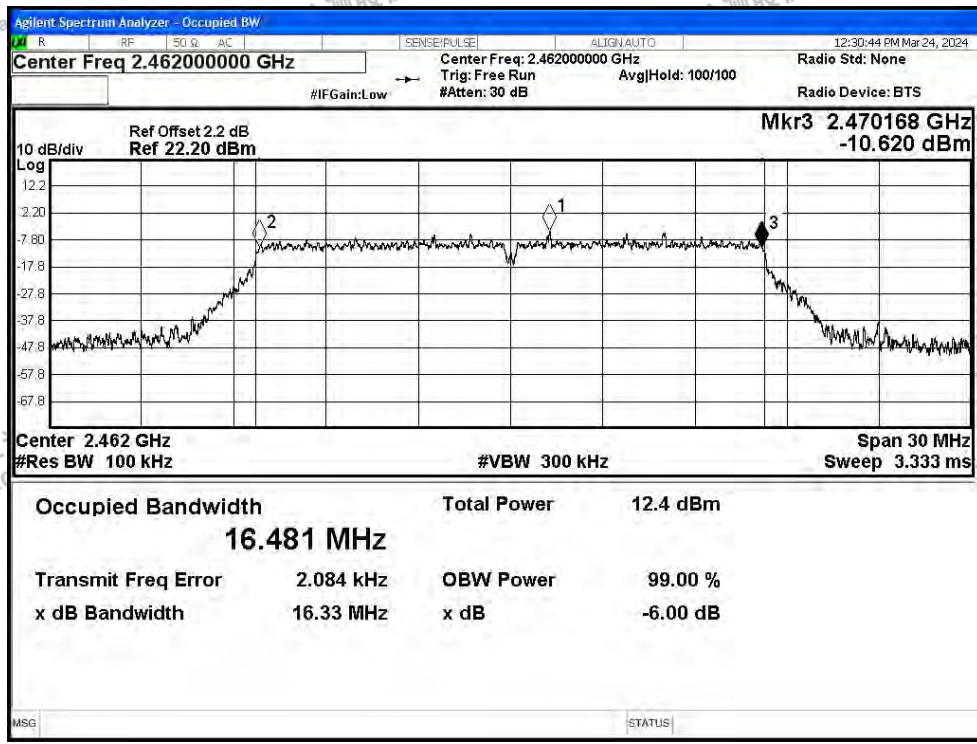




-6dB Bandwidth NVNT g 2437MHz Ant2

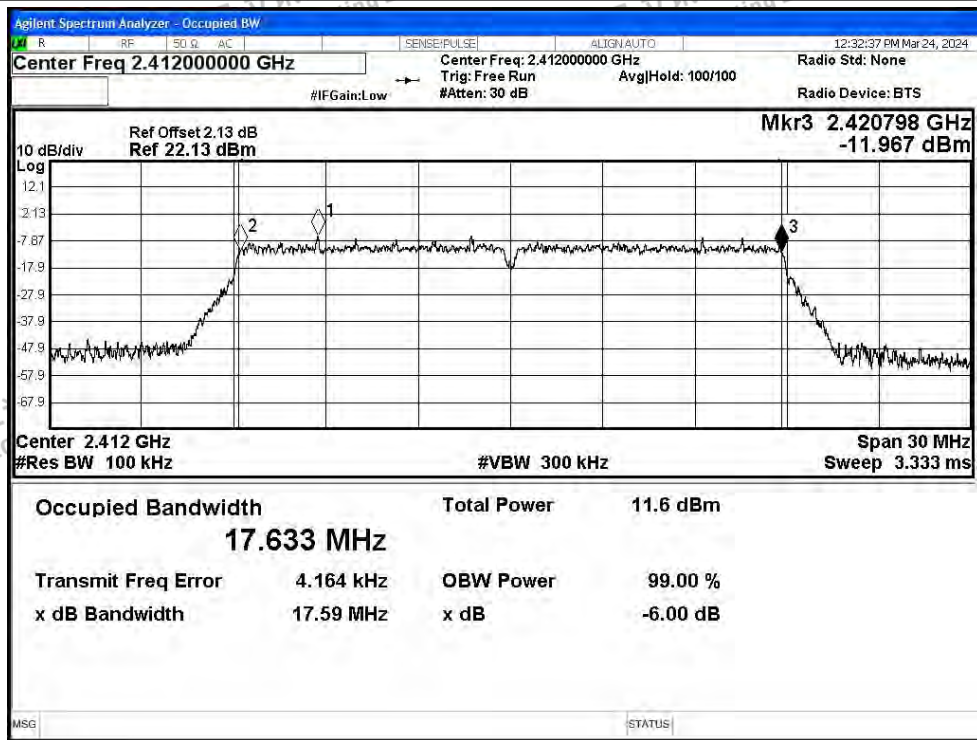


-6dB Bandwidth NVNT g 2462MHz Ant2

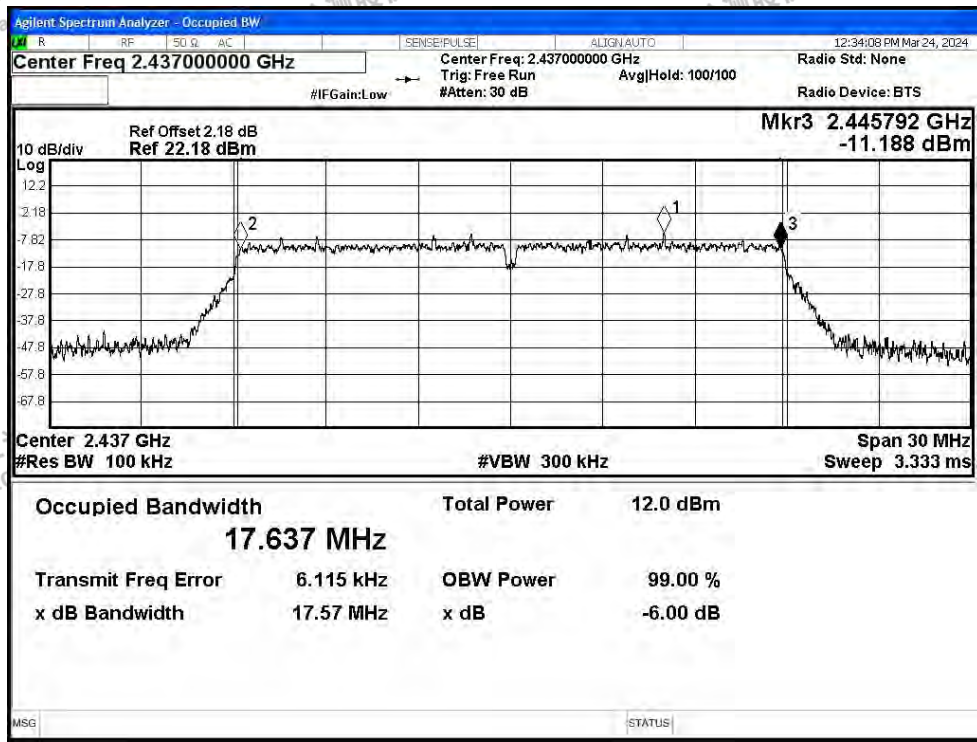




-6dB Bandwidth NVNT n20 2412MHz Ant2

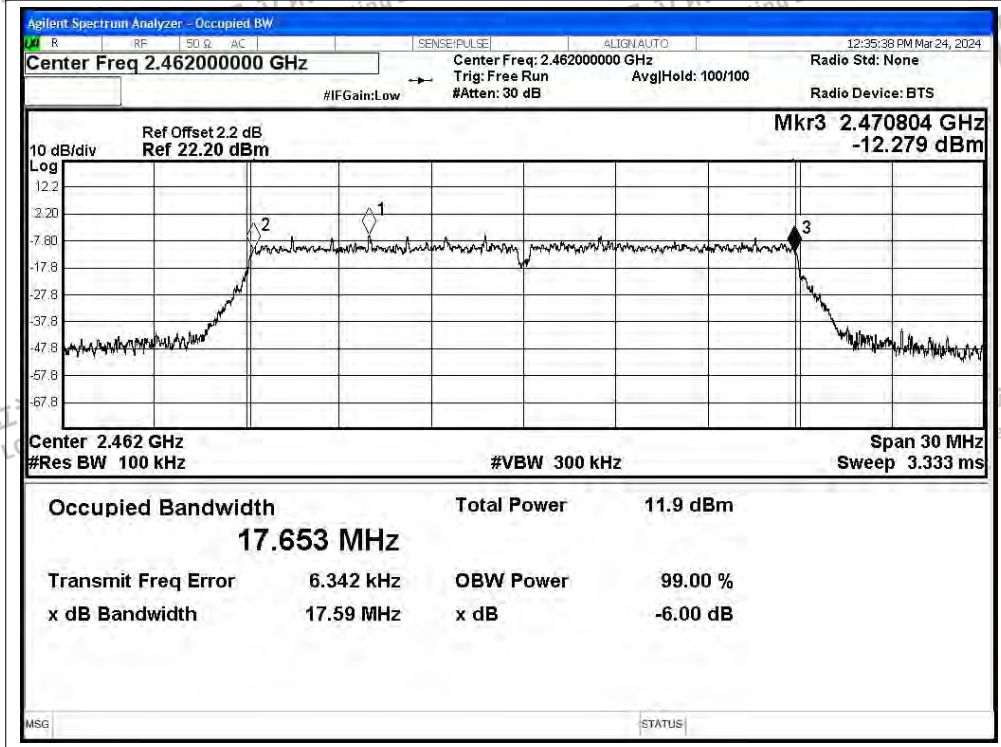


-6dB Bandwidth NVNT n20 2437MHz Ant2





-6dB Bandwidth NVNT n20 2462MHz Ant2





## C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.23	30	Pass
NVNT	b	2437	Ant1	14.17	30	Pass
NVNT	b	2462	Ant1	13.34	30	Pass
NVNT	g	2412	Ant1	12.5	30	Pass
NVNT	g	2437	Ant1	12.12	30	Pass
NVNT	g	2462	Ant1	12.05	30	Pass
NVNT	n20	2412	Ant1	11.38	30	Pass
NVNT	n20	2437	Ant1	11.62	30	Pass
NVNT	n20	2462	Ant1	11.64	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	13.31	30	Pass
NVNT	b	2437	Ant2	13.02	30	Pass
NVNT	b	2462	Ant2	12.08	30	Pass
NVNT	g	2412	Ant2	11.73	30	Pass
NVNT	g	2437	Ant2	11.79	30	Pass
NVNT	g	2462	Ant2	11.1	30	Pass
NVNT	n20	2412	Ant2	10.25	30	Pass
NVNT	n20	2437	Ant2	10.67	30	Pass
NVNT	n20	2462	Ant2	10.65	30	Pass

### MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	11.38	10.25	13.86	30	Pass
NVNT	n20	2437	11.62	10.67	14.18	30	Pass
NVNT	n20	2462	11.64	10.65	14.18	30	Pass





### C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-11.25	8	Pass
NVNT	b	2437	Ant1	-11.96	8	Pass
NVNT	b	2462	Ant1	-11.64	8	Pass
NVNT	g	2412	Ant1	-16.94	8	Pass
NVNT	g	2437	Ant1	-17.93	8	Pass
NVNT	g	2462	Ant1	-18.02	8	Pass
NVNT	n20	2412	Ant1	-19.33	8	Pass
NVNT	n20	2437	Ant1	-17.91	8	Pass
NVNT	n20	2462	Ant1	-19.1	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-12.31	8	Pass
NVNT	b	2437	Ant2	-11.53	8	Pass
NVNT	b	2462	Ant2	-11.65	8	Pass
NVNT	g	2412	Ant2	-17.34	8	Pass
NVNT	g	2437	Ant2	-17.77	8	Pass
NVNT	g	2462	Ant2	-18.82	8	Pass
NVNT	n20	2412	Ant2	-19.68	8	Pass
NVNT	n20	2437	Ant2	-18.75	8	Pass
NVNT	n20	2462	Ant2	-20.37	8	Pass

#### MIMO

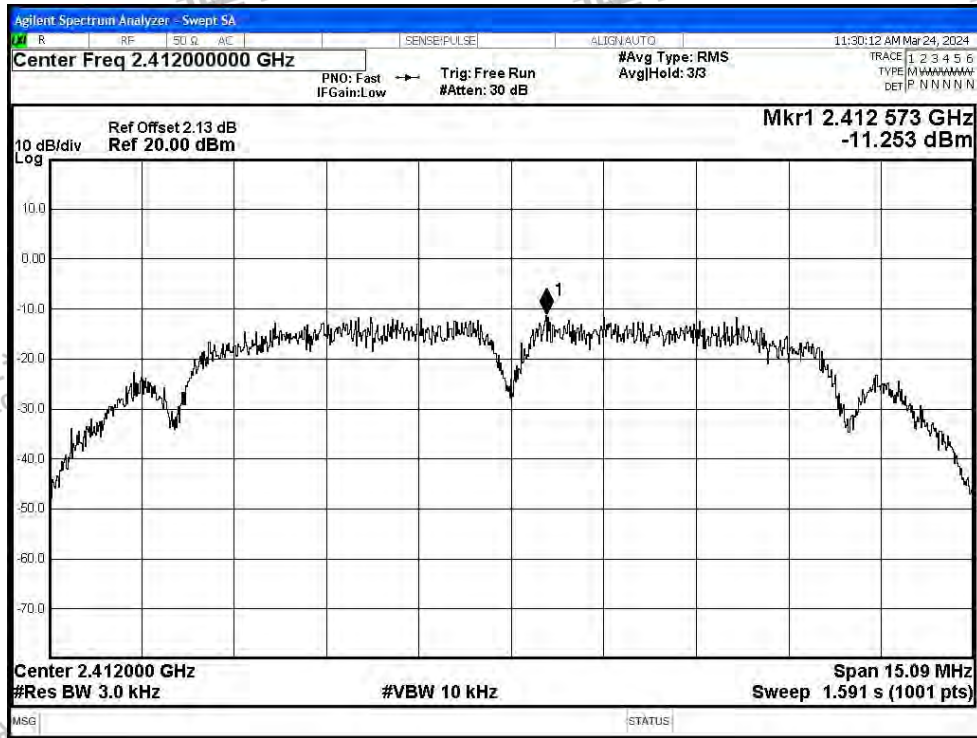
Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	-19.33	-19.68	-16.49	8	Pass
NVNT	n20	2437	-17.91	-18.75	-15.30	8	Pass
NVNT	n20	2462	-19.1	-20.37	-16.68	8	Pass



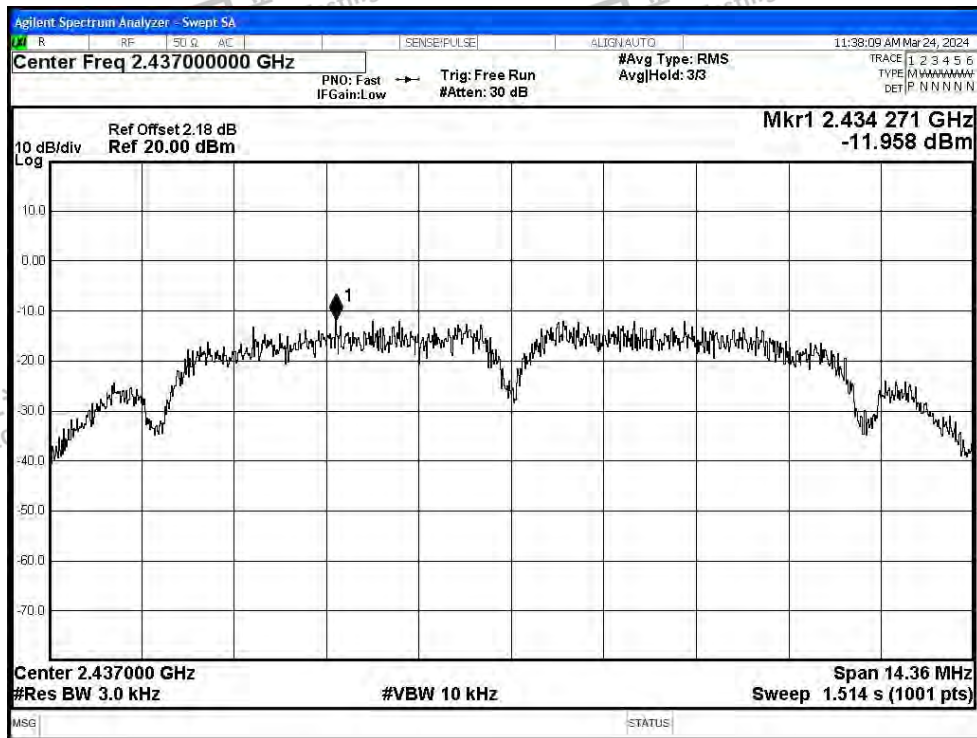


Test Graphs

PSD NVNT b 2412MHz Ant1



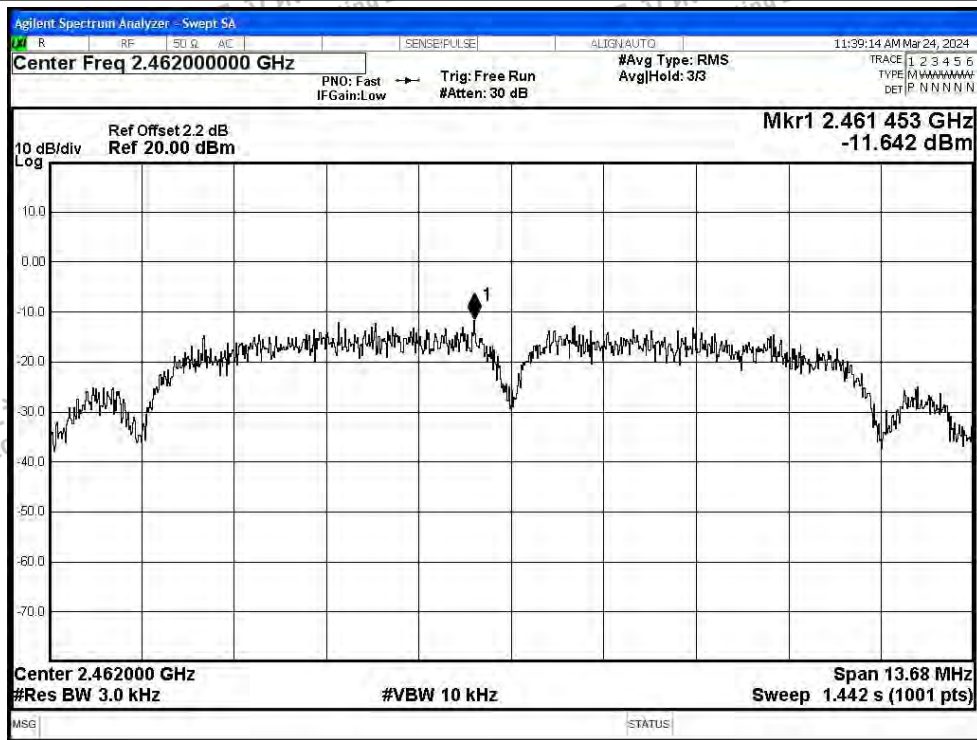
PSD NVNT b 2437MHz Ant1



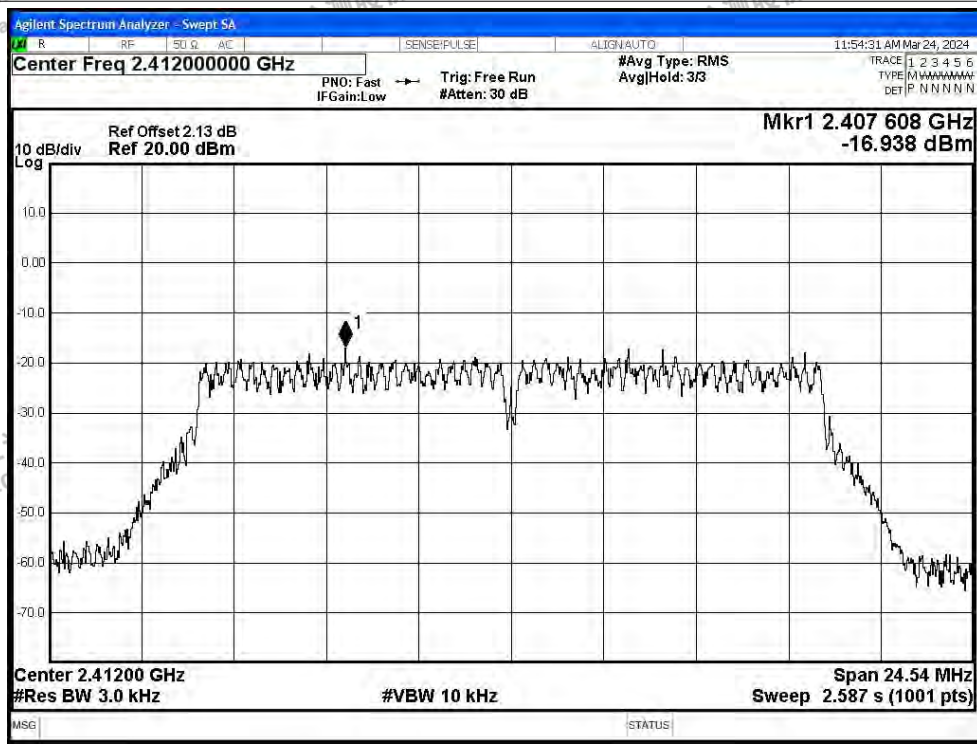




PSD NVNT b 2462MHz Ant1

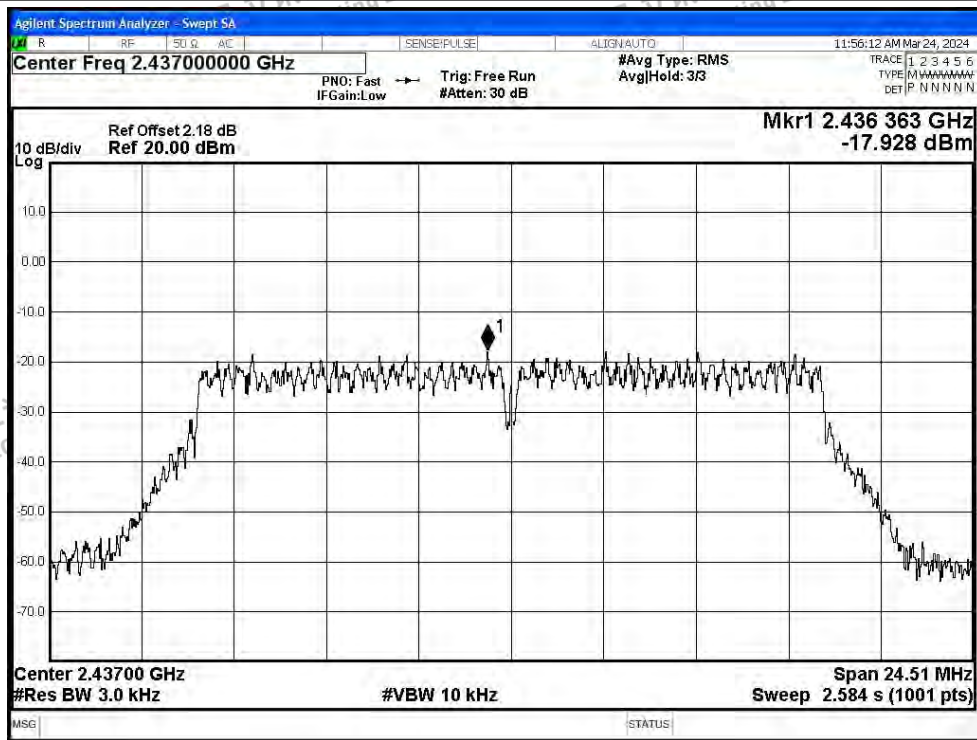


PSD NVNT g 2412MHz Ant1

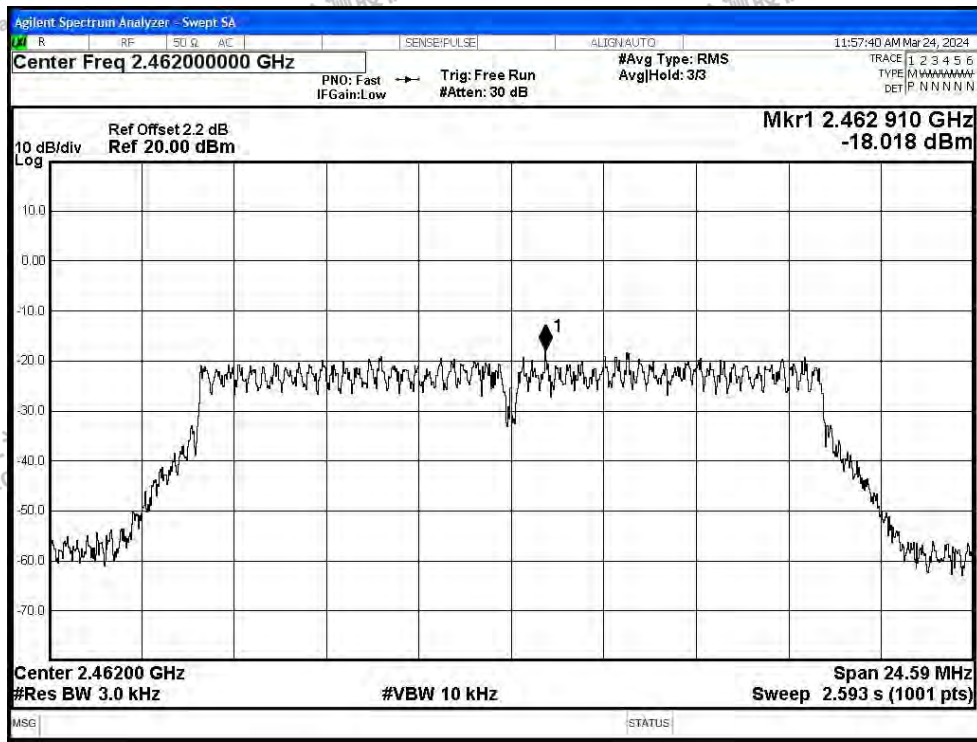




PSD NVNT g 2437MHz Ant1

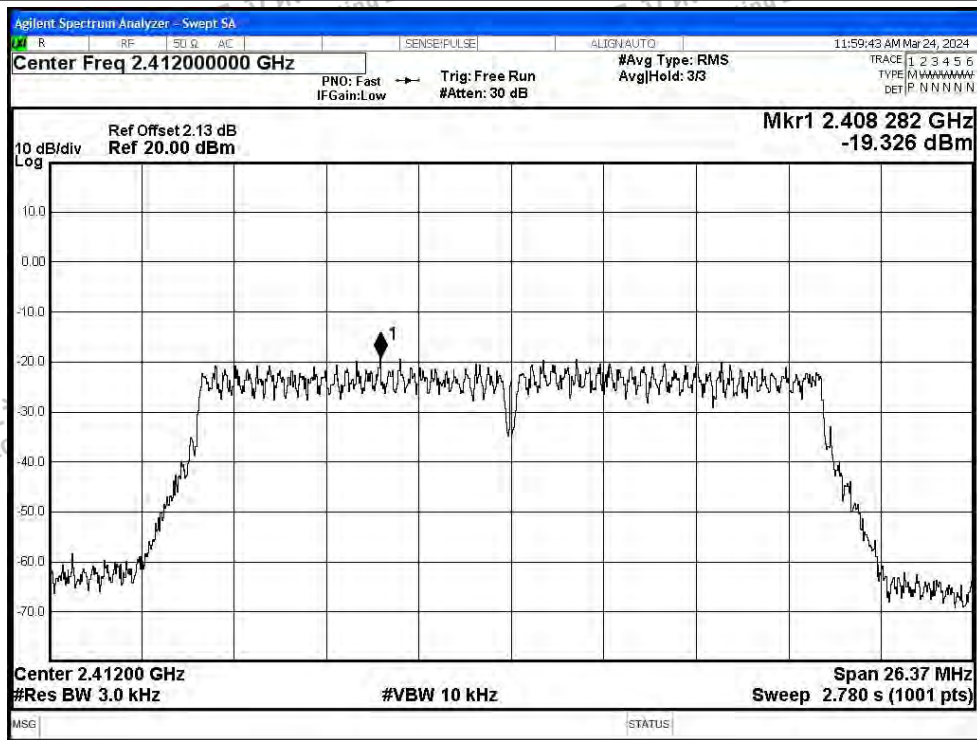


PSD NVNT g 2462MHz Ant1

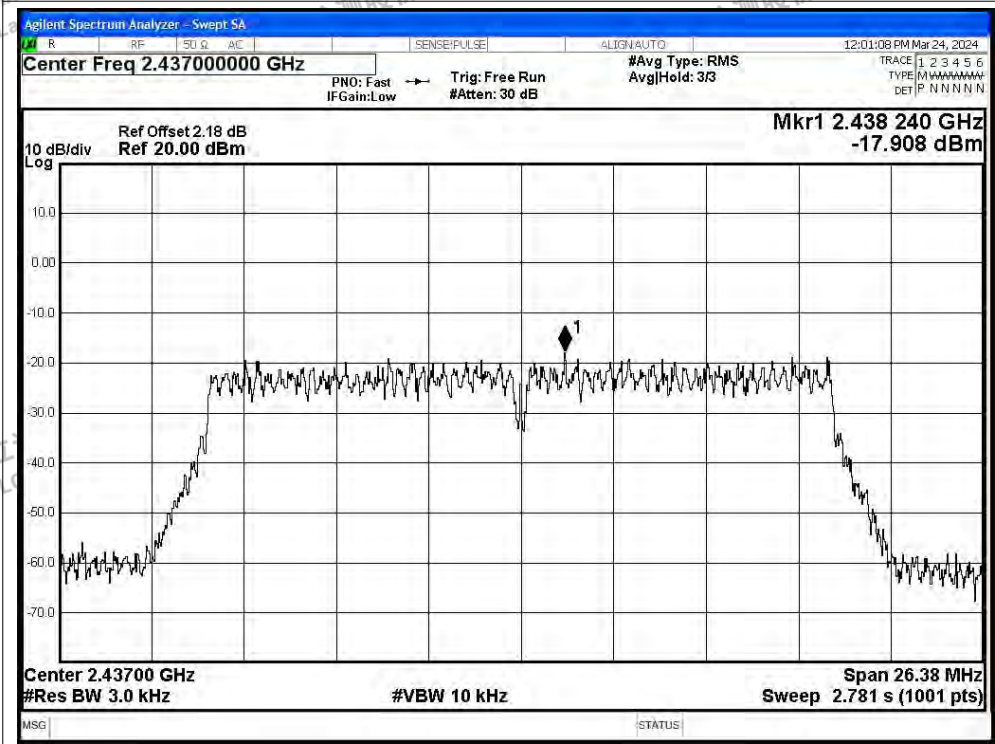




PSD NVNT n20 2412MHz Ant1

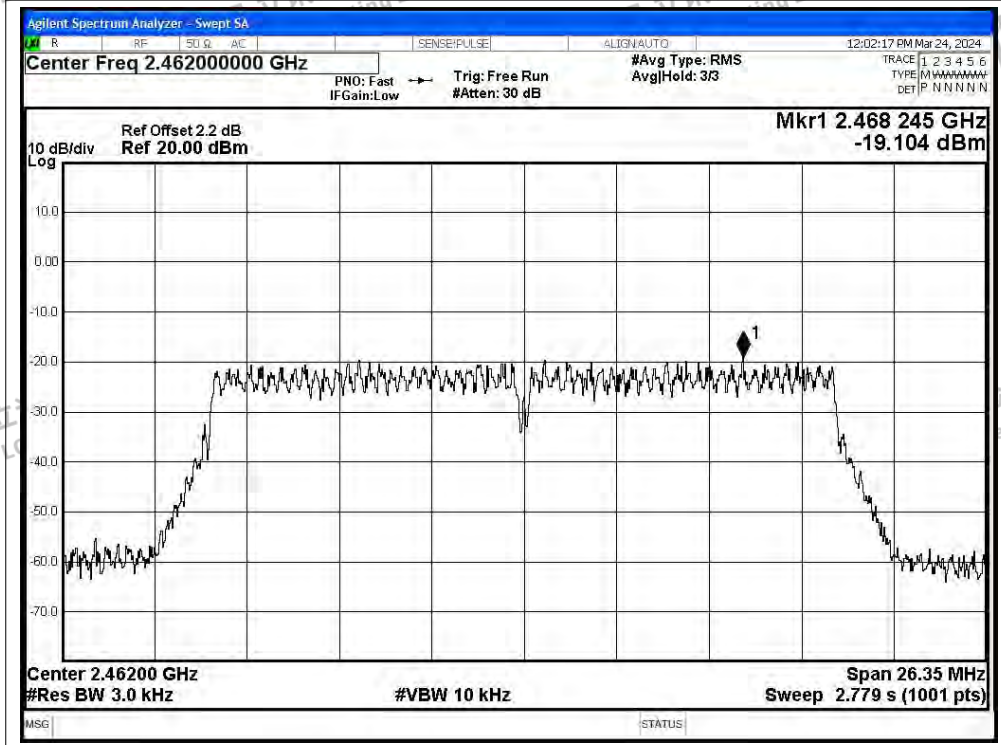


PSD NVNT n20 2437MHz Ant1





PSD NVNT n20 2462MHz Ant1

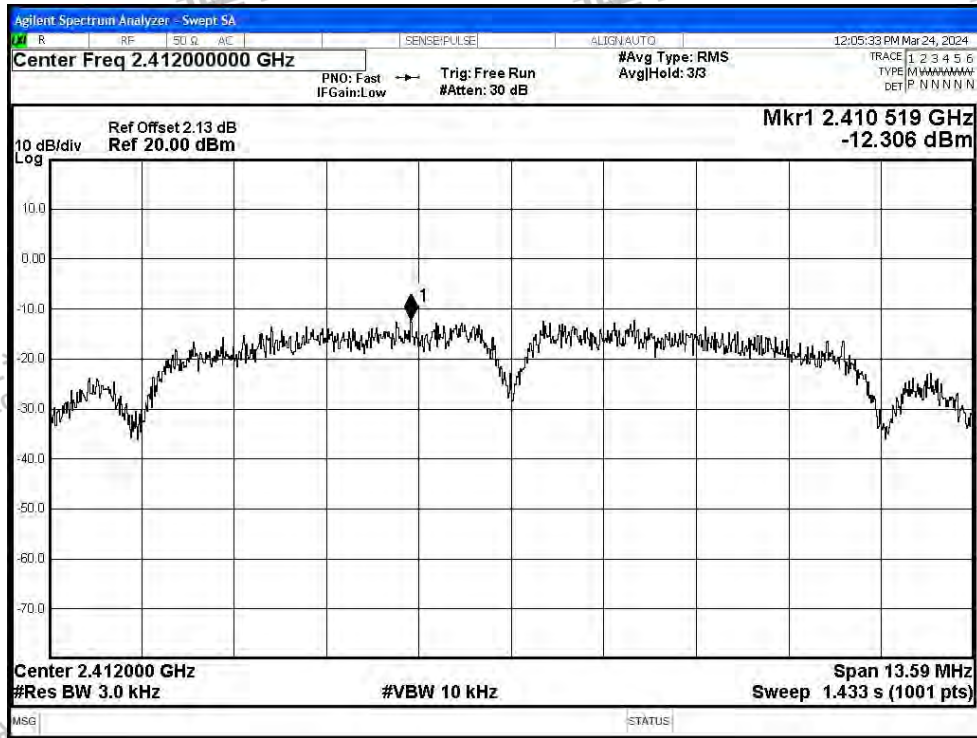


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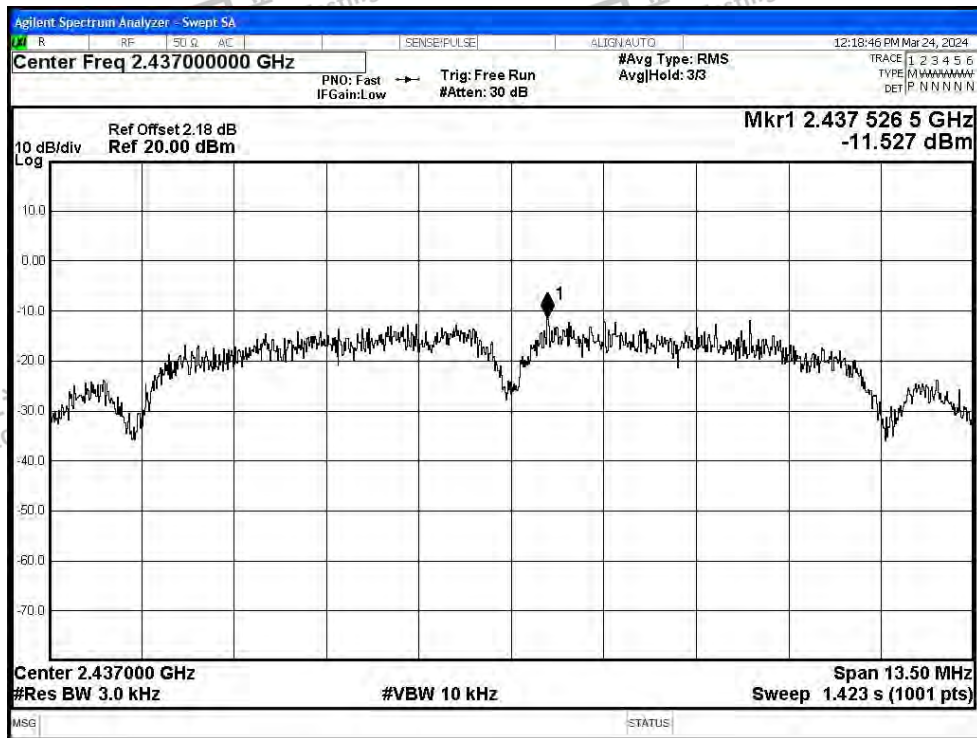


Test Graphs

PSD NVNT b 2412MHz Ant2

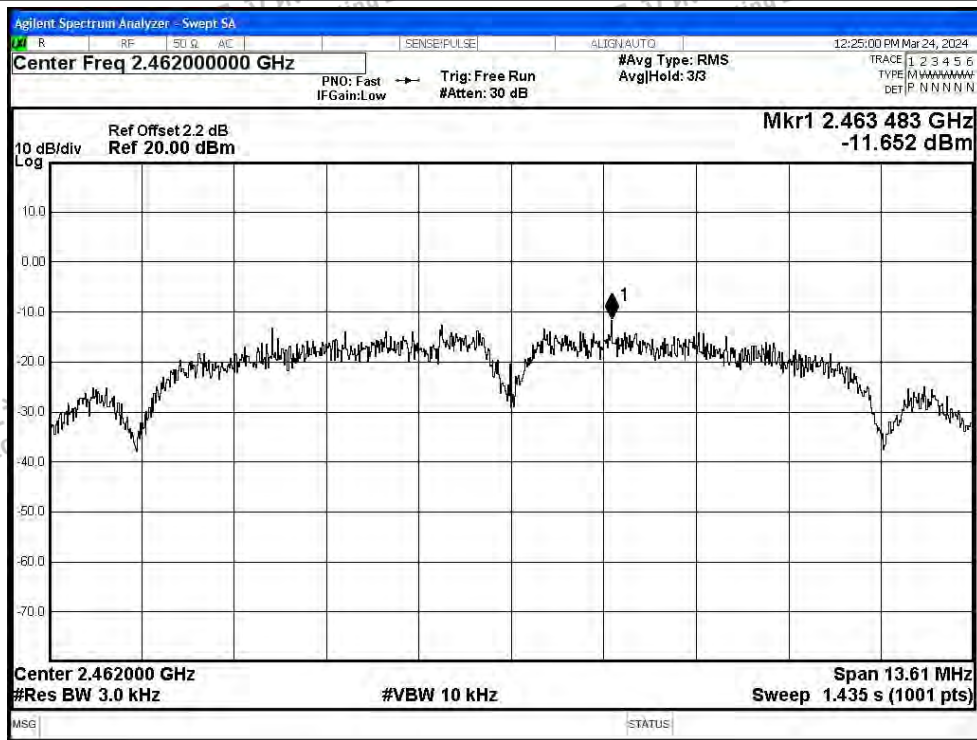


PSD NVNT b 2437MHz Ant2

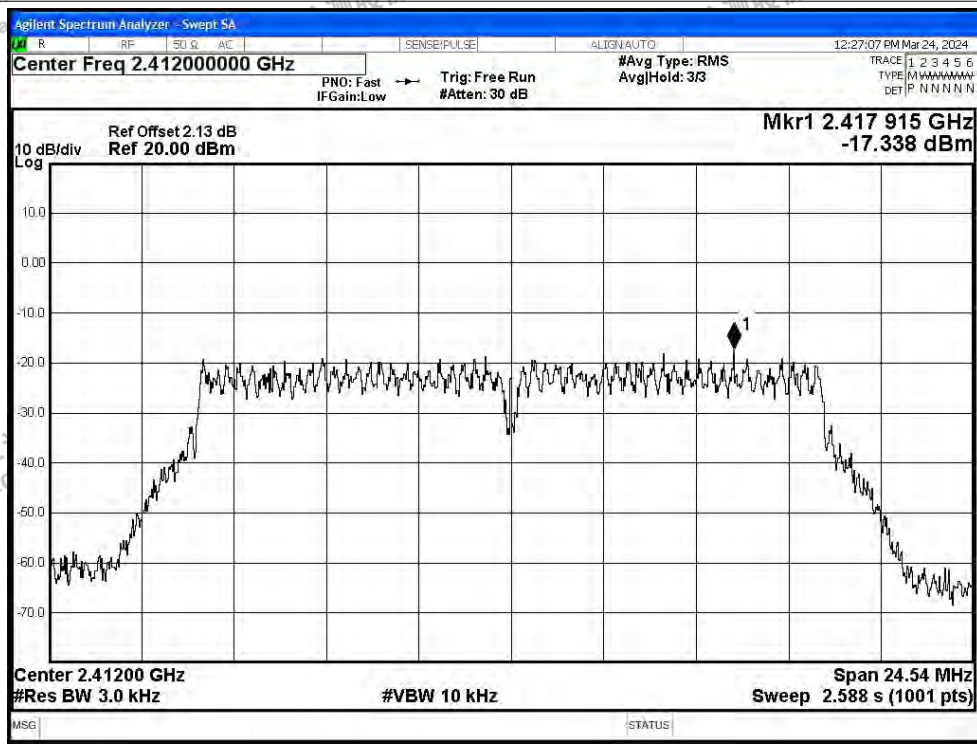




PSD NVNT b 2462MHz Ant2

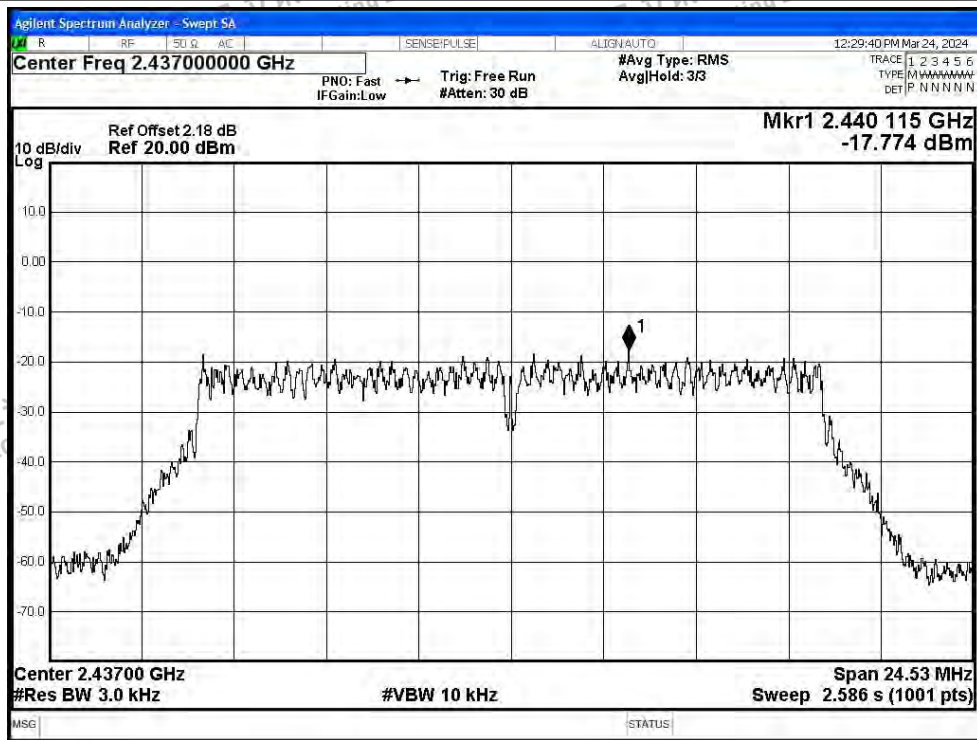


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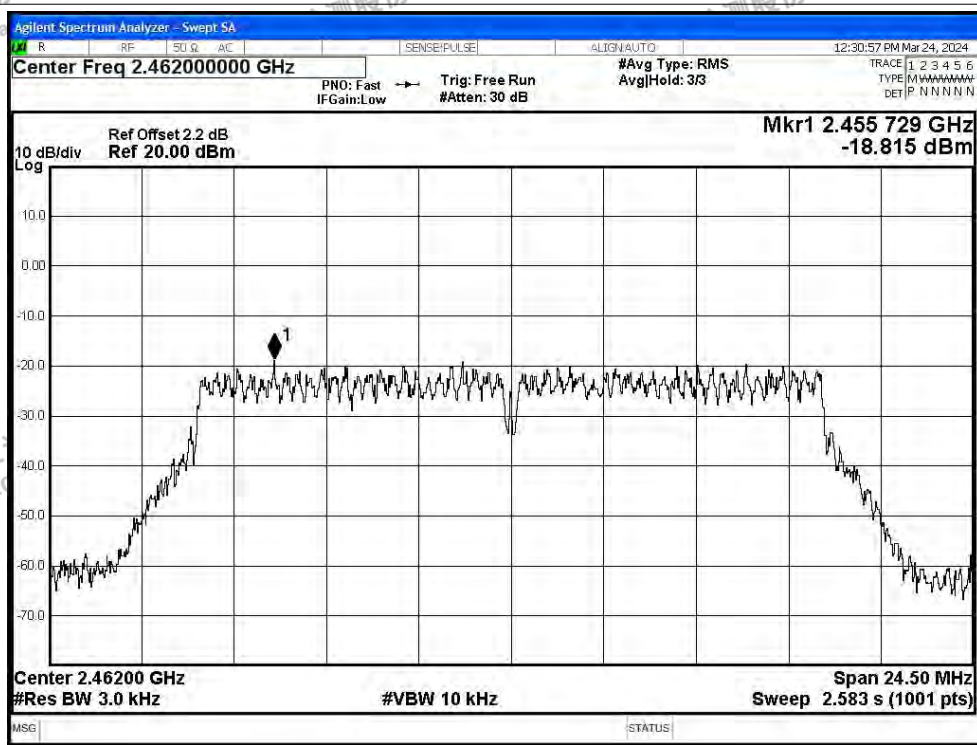




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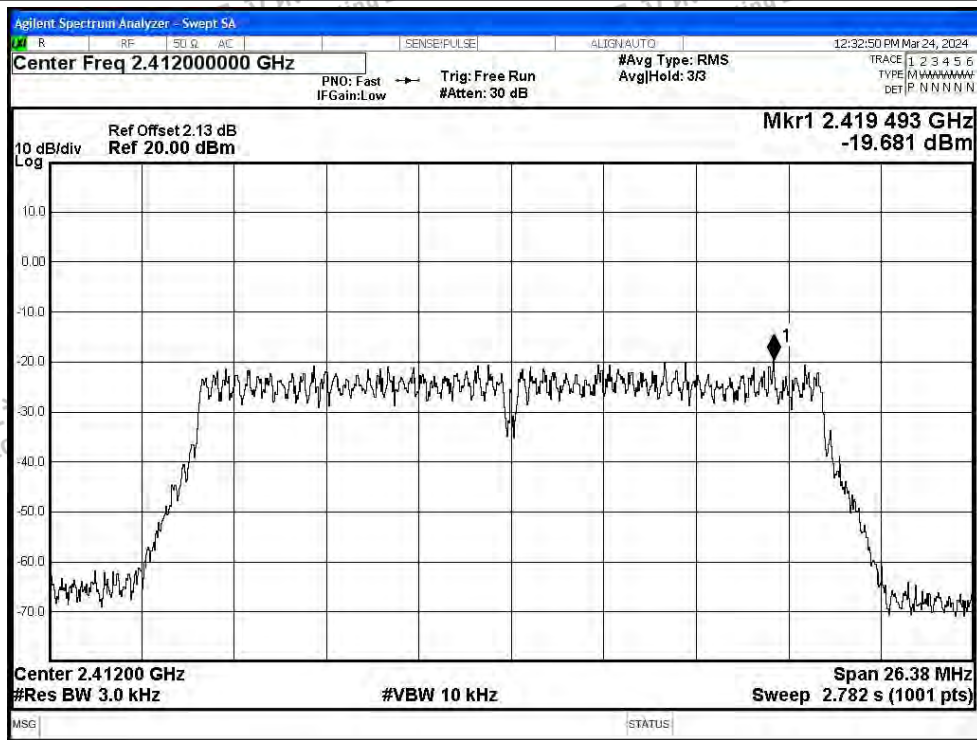


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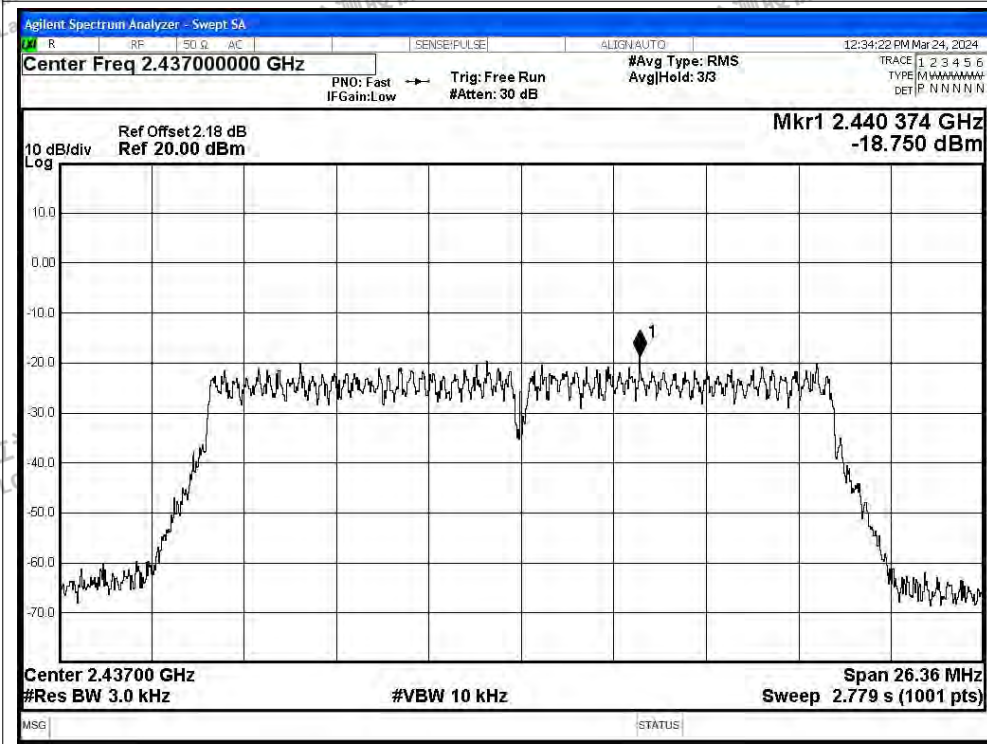




PSD NVNT n20 2412MHz Ant2



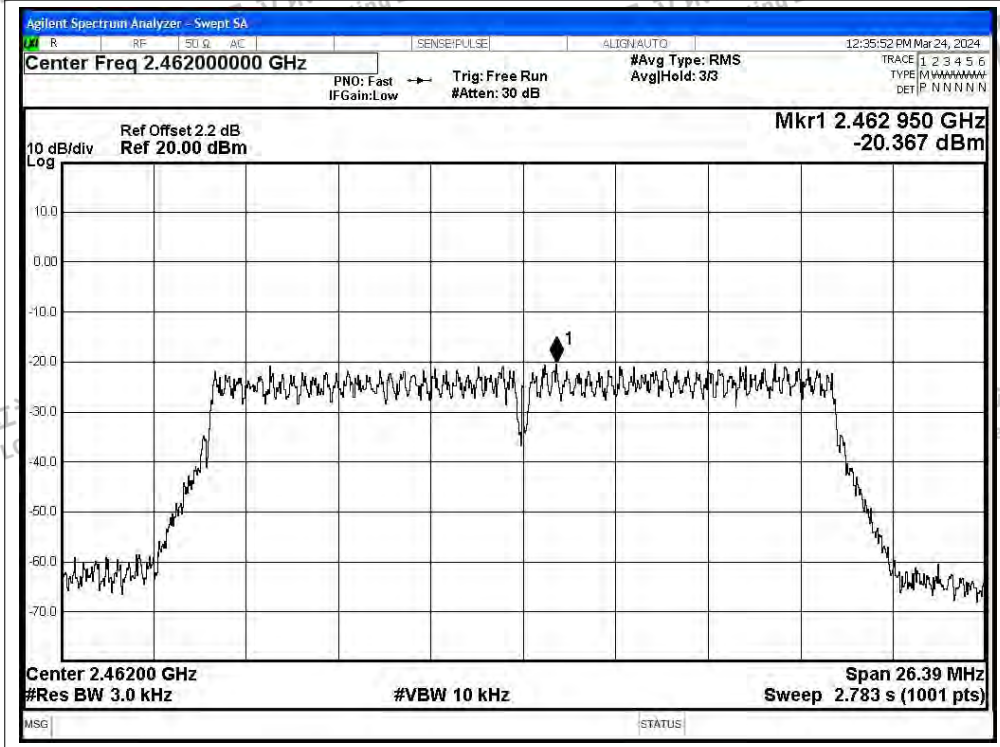
PSD NVNT n20 2437MHz Ant2







PSD NVNT n20 2462MHz Ant2



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### C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.03	-20	Pass
NVNT	b	2462	Ant1	-54.03	-20	Pass
NVNT	g	2412	Ant1	-35.42	-20	Pass
NVNT	g	2462	Ant1	-45.67	-20	Pass
NVNT	n20	2412	Ant1	-37.07	-20	Pass
NVNT	n20	2462	Ant1	-44.2	-20	Pass



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Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

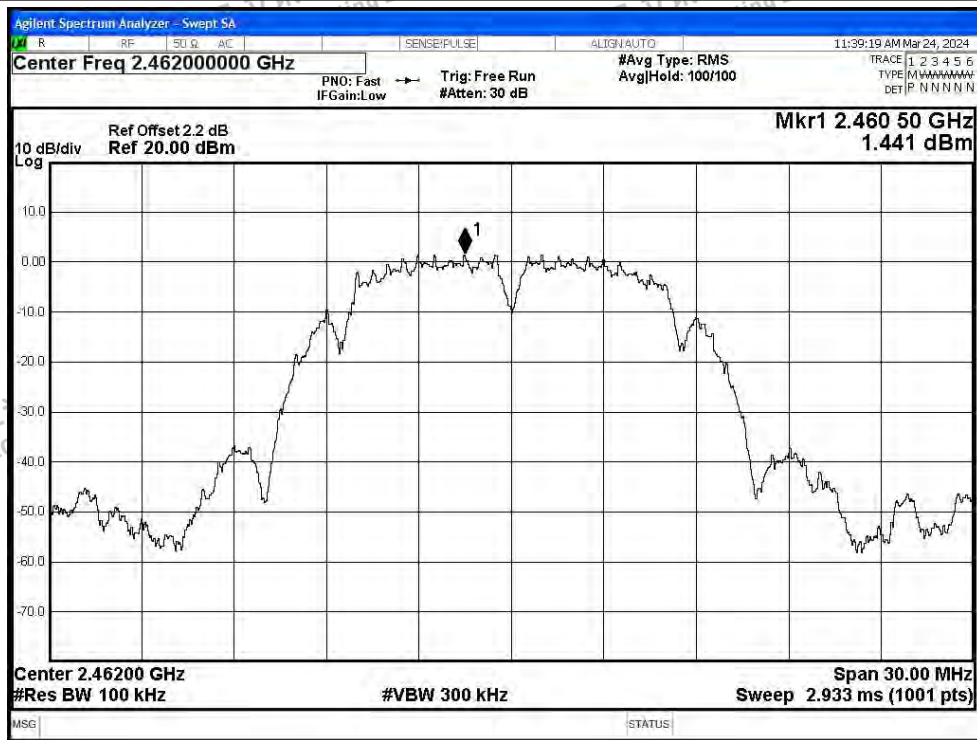


Band Edge NVNT b 2412MHz Ant1 Emission

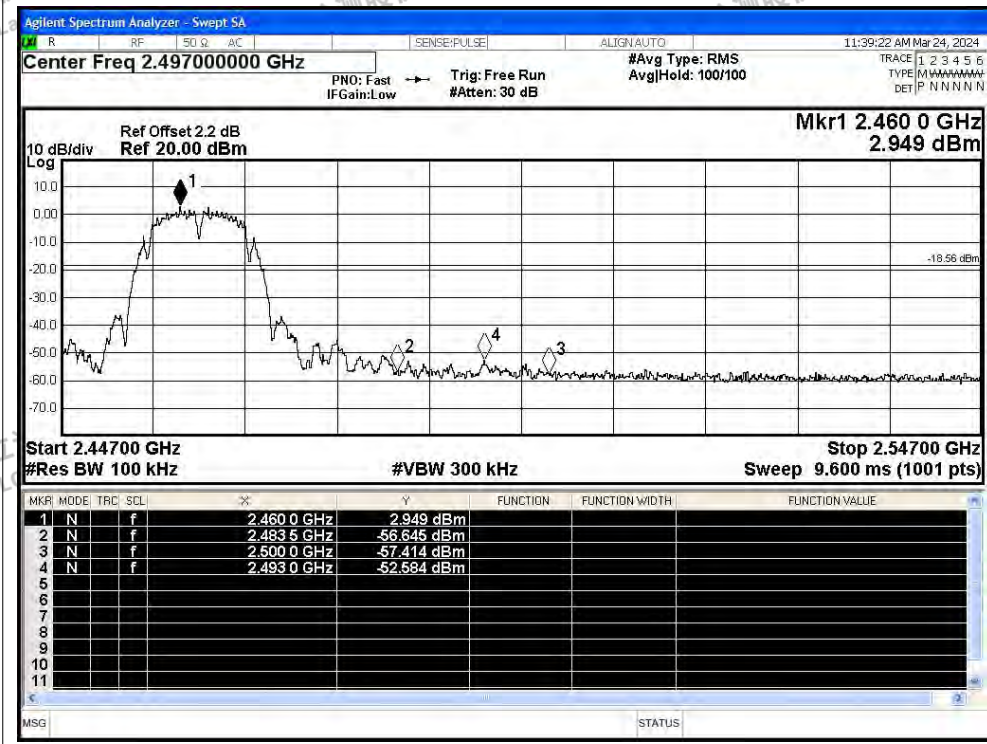




Band Edge NVNT b 2462MHz Ant1 Ref

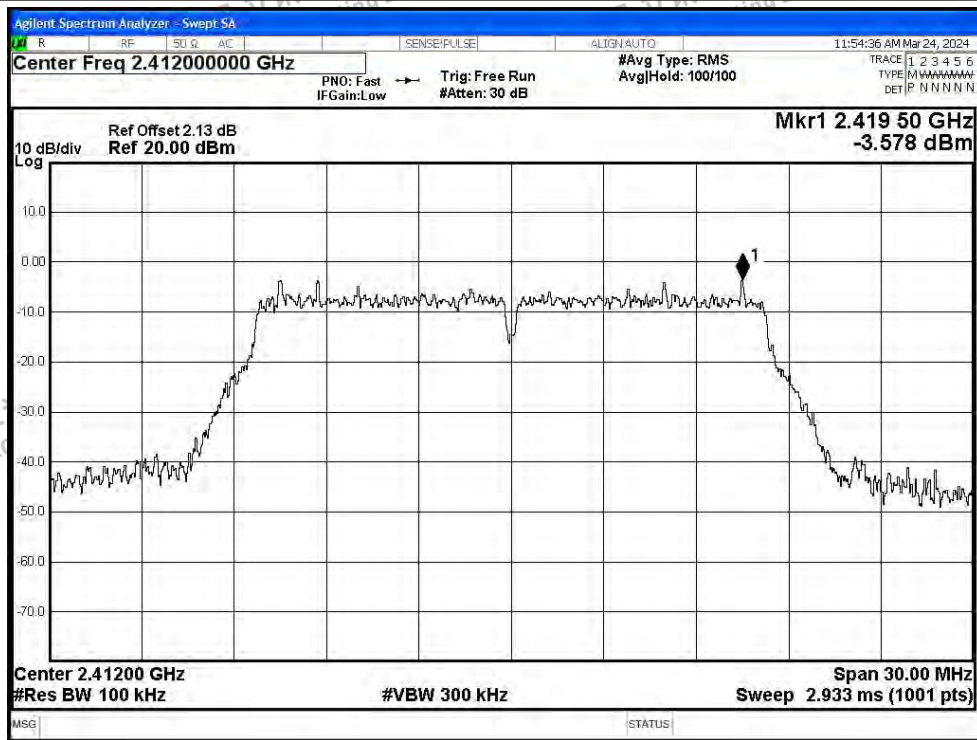


Band Edge NVNT b 2462MHz Ant1 Emission

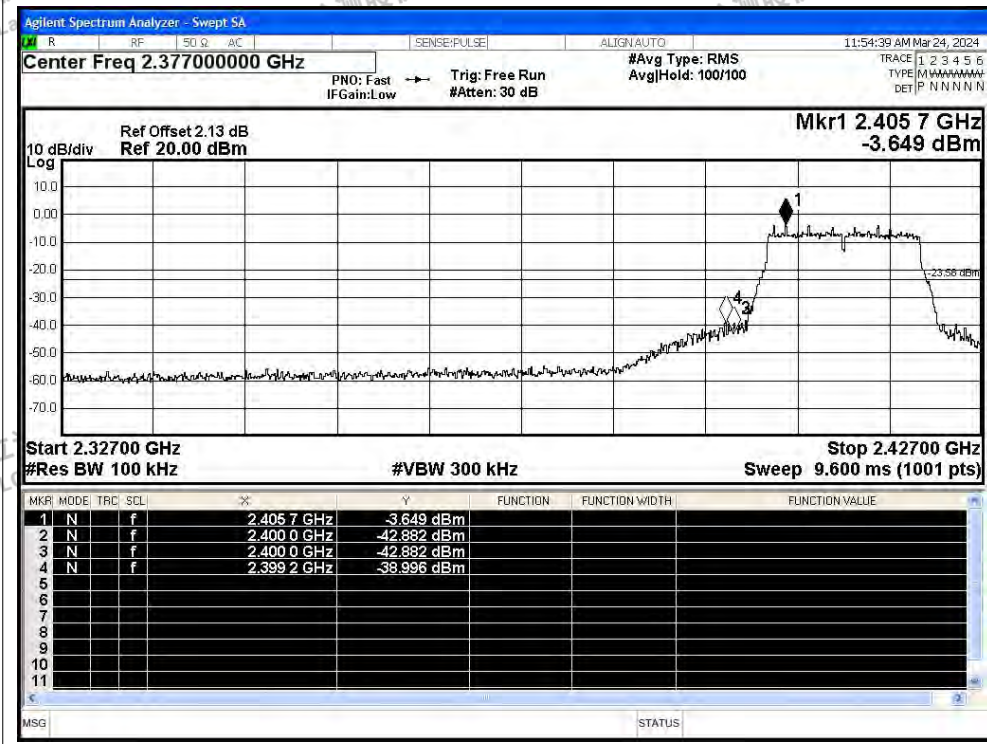




Band Edge NVNT g 2412MHz Ant1 Ref

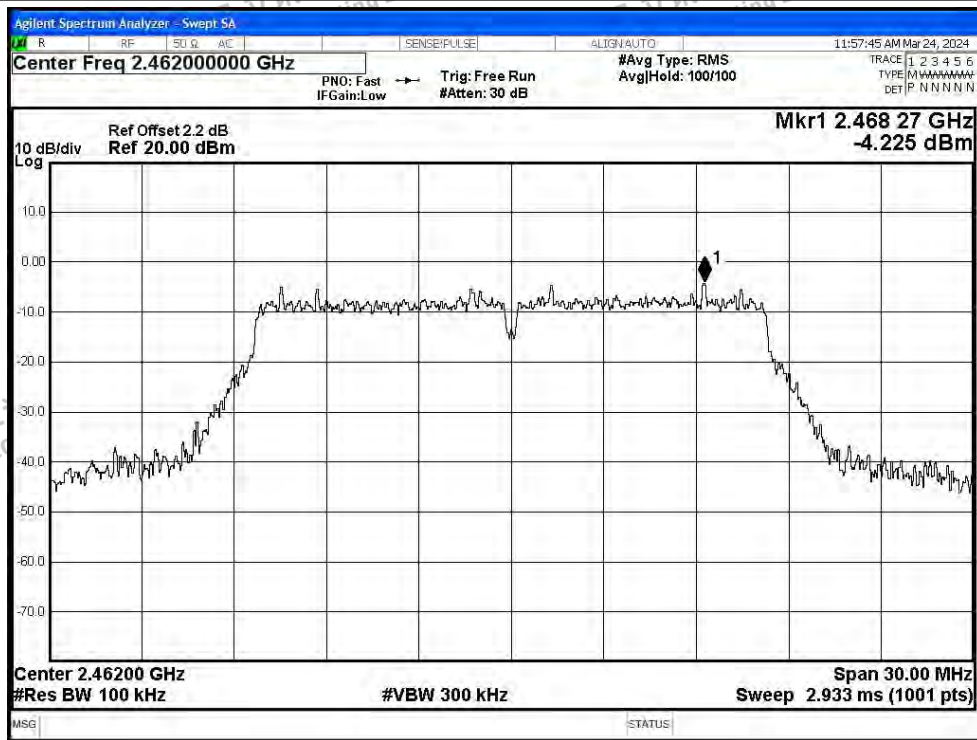


Band Edge NVNT g 2412MHz Ant1 Emission

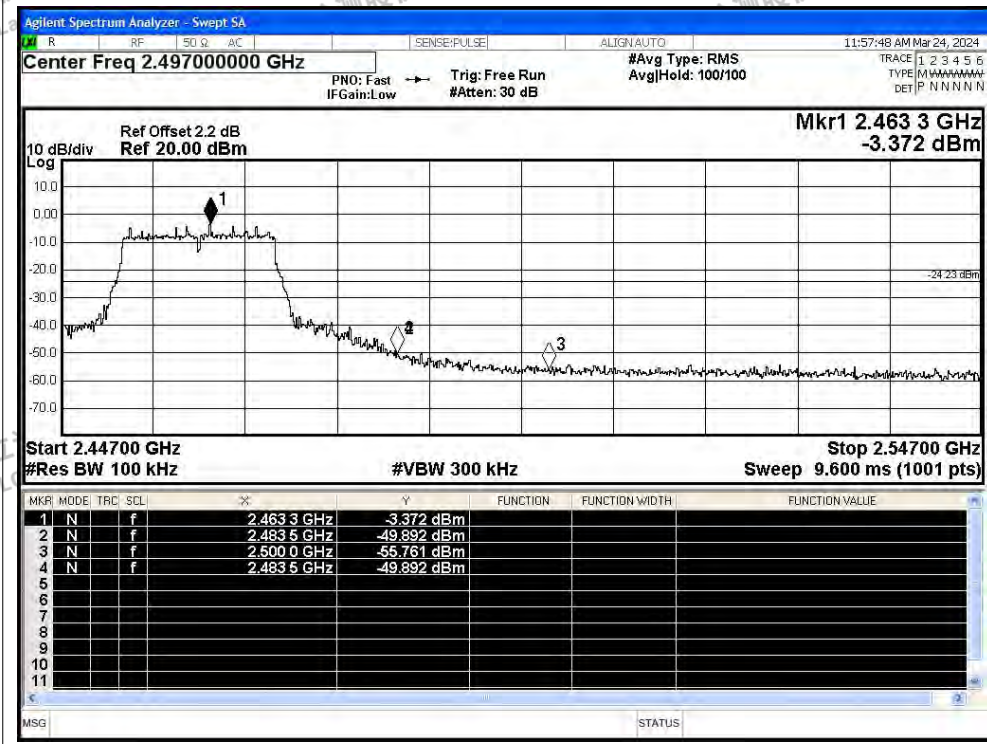




Band Edge NVNT g 2462MHz Ant1 Ref

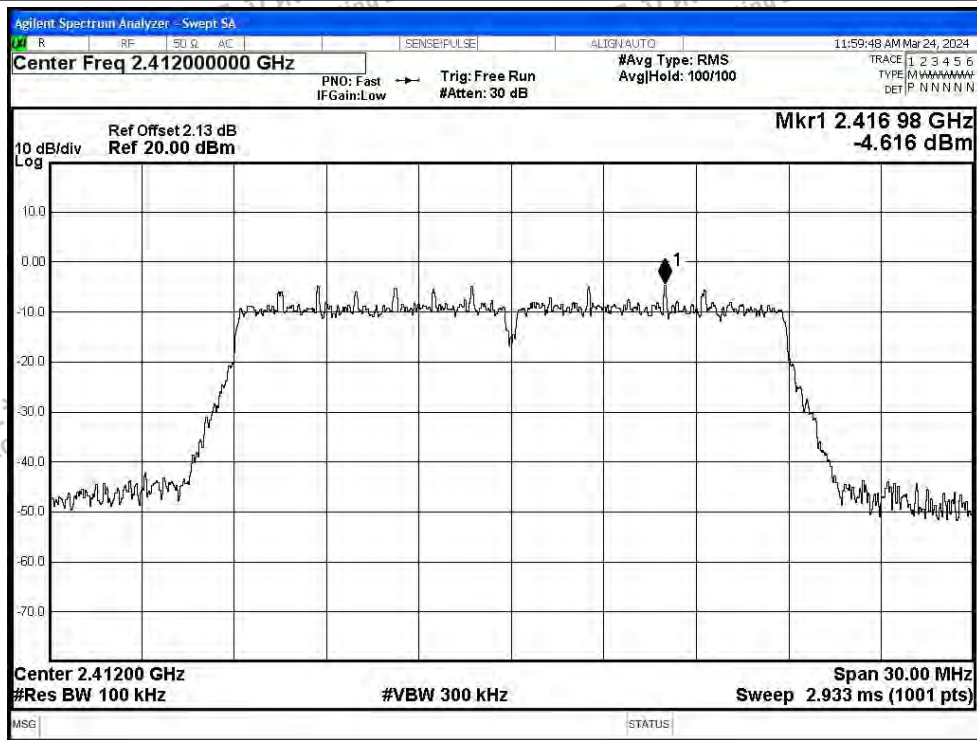


Band Edge NVNT g 2462MHz Ant1 Emission

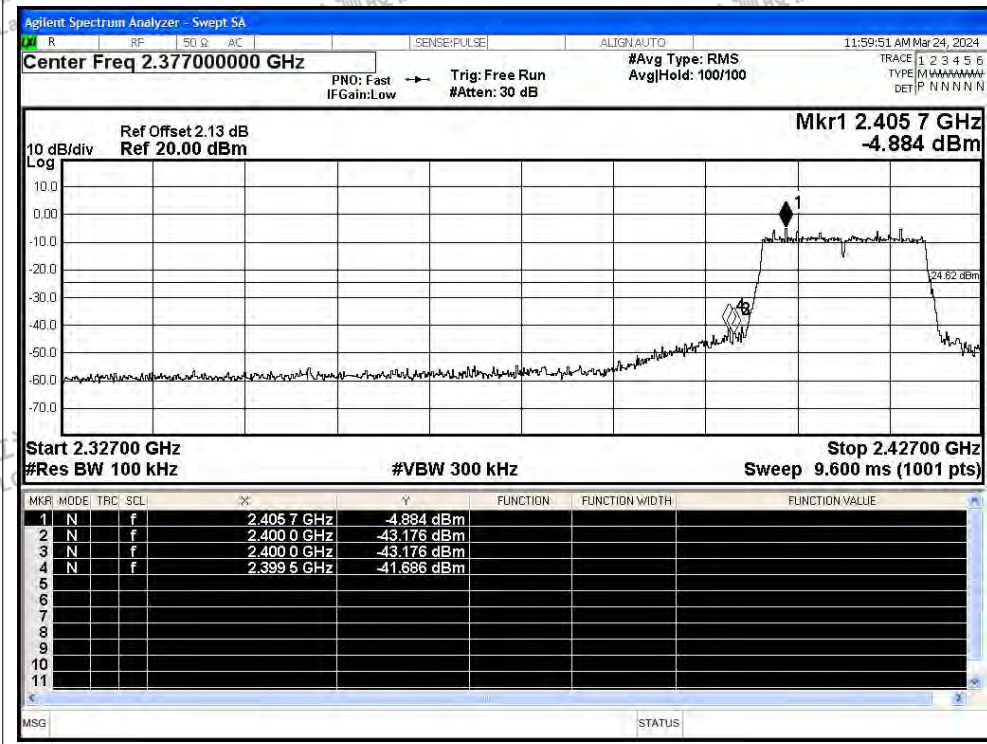




Band Edge NVNT n20 2412MHz Ant1 Ref

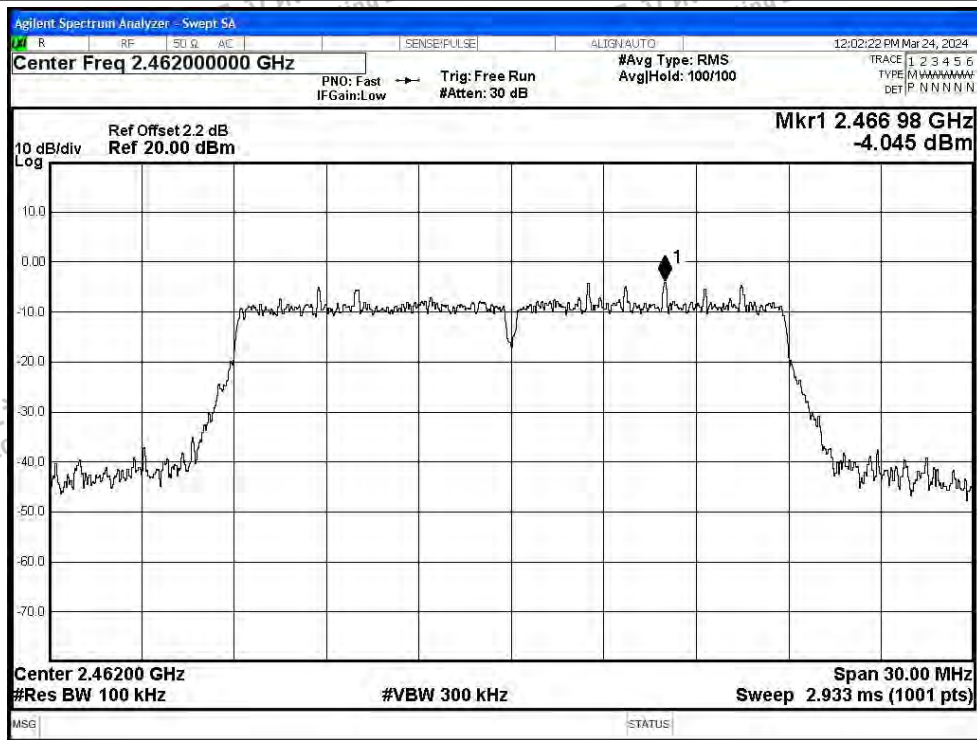


Band Edge NVNT n20 2412MHz Ant1 Emission

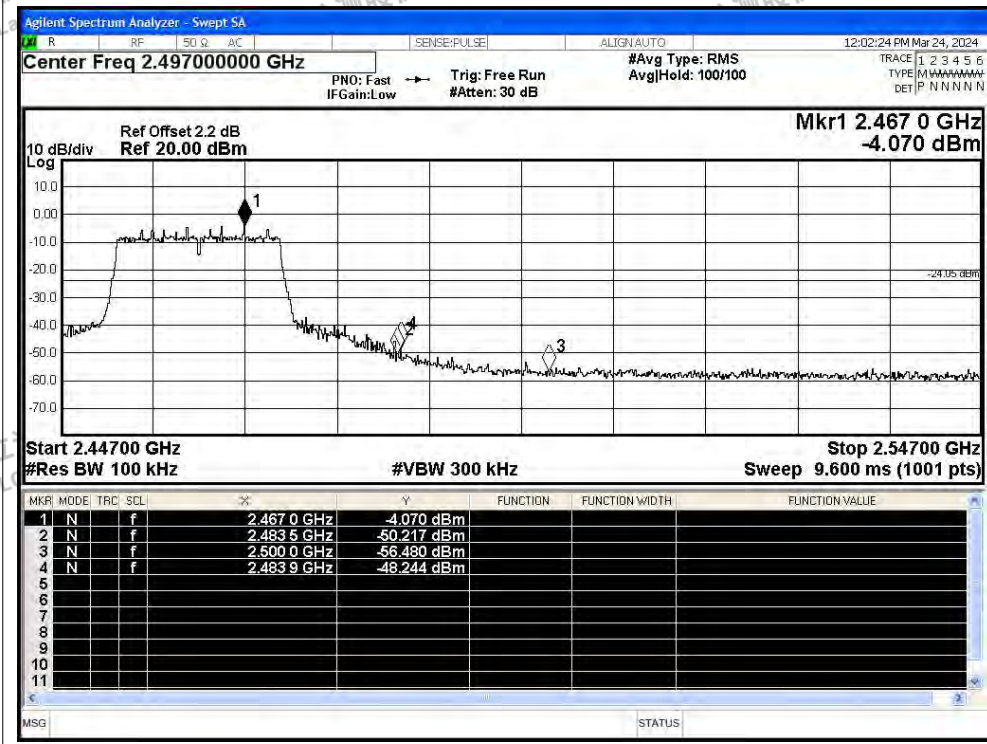




Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission







Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-45	-20	Pass
NVNT	b	2462	Ant2	-58.18	-20	Pass
NVNT	g	2412	Ant2	-38.15	-20	Pass
NVNT	g	2462	Ant2	-46.31	-20	Pass
NVNT	n20	2412	Ant2	-40.78	-20	Pass
NVNT	n20	2462	Ant2	-46.48	-20	Pass

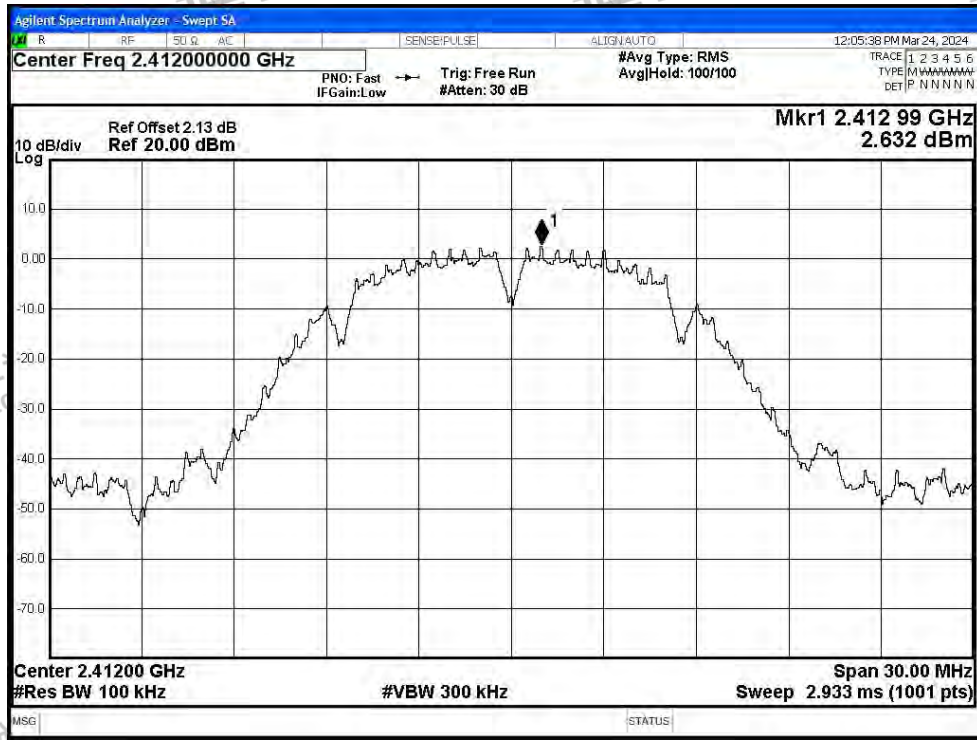


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Scan code to check authenticity

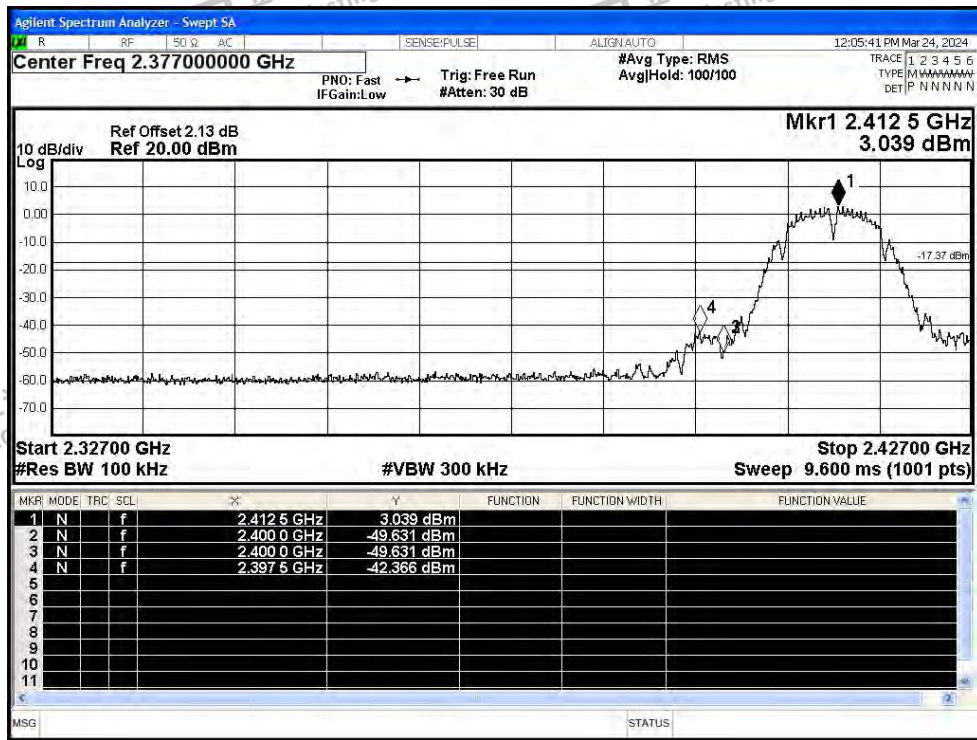


Test Graphs

Band Edge NVNT b 2412MHz Ant2 Ref

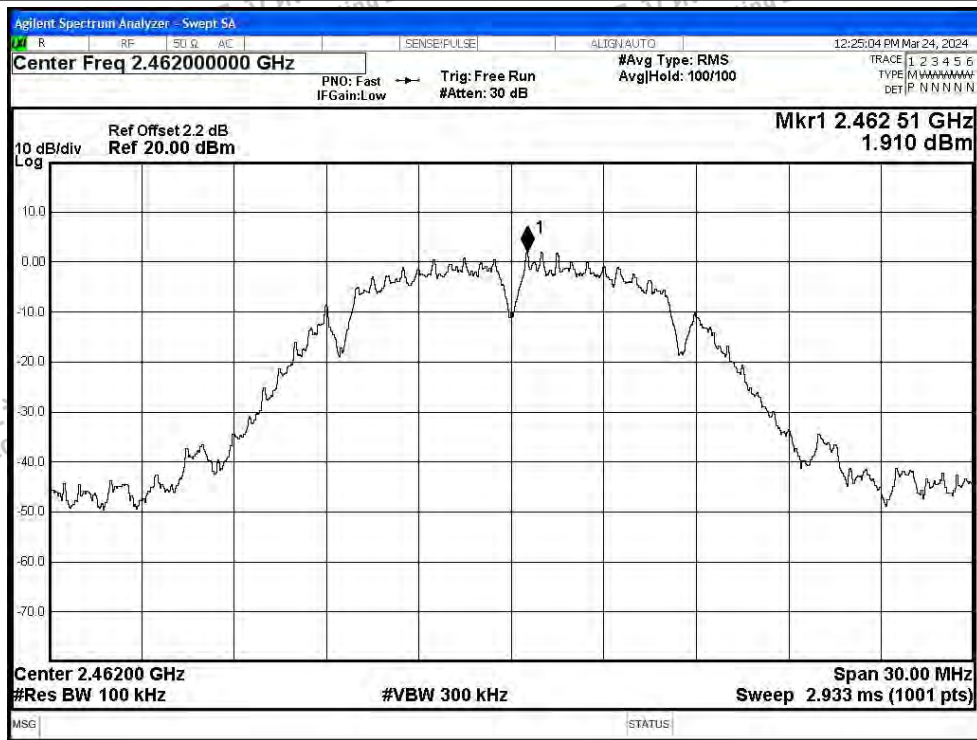


Band Edge NVNT b 2412MHz Ant2 Emission

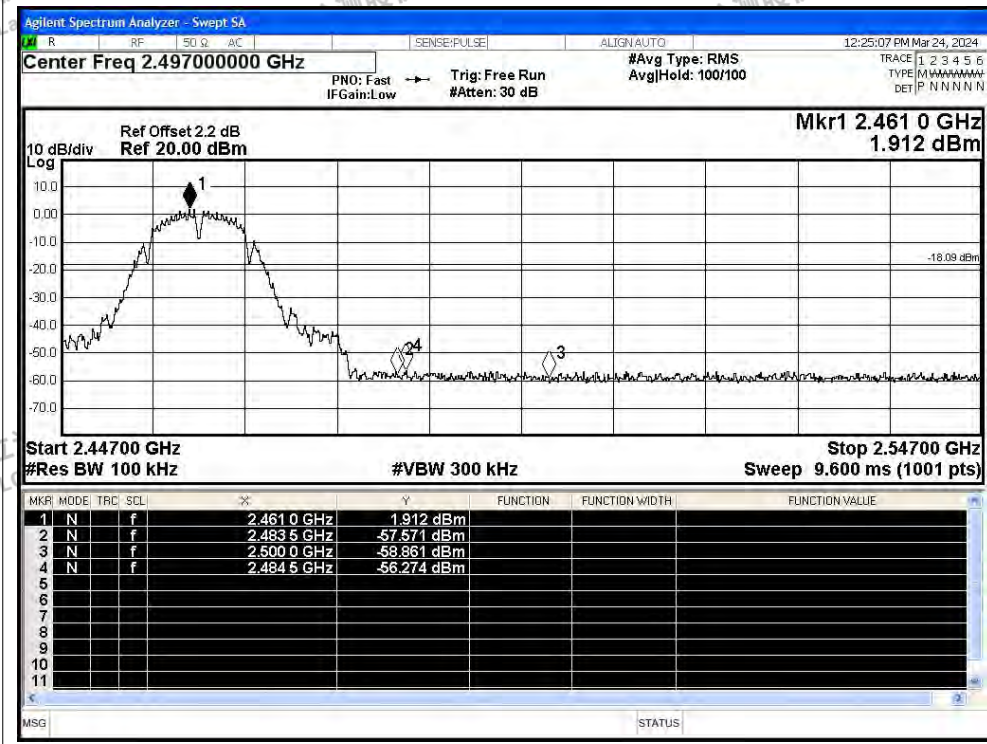




Band Edge NVNT b 2462MHz Ant2 Ref

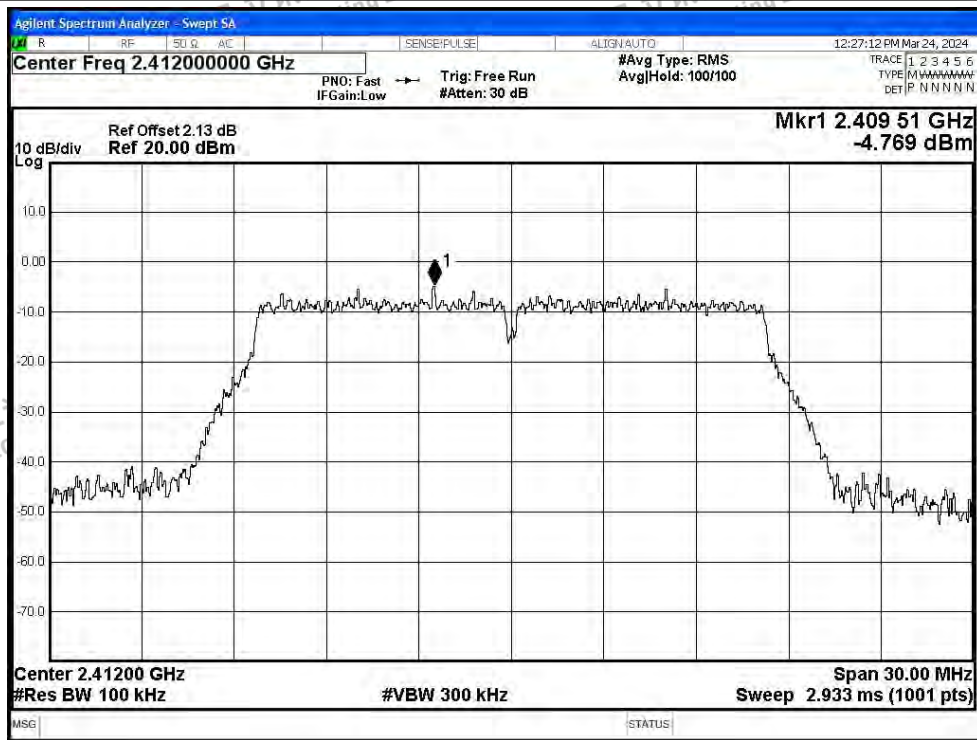


Band Edge NVNT b 2462MHz Ant2 Emission

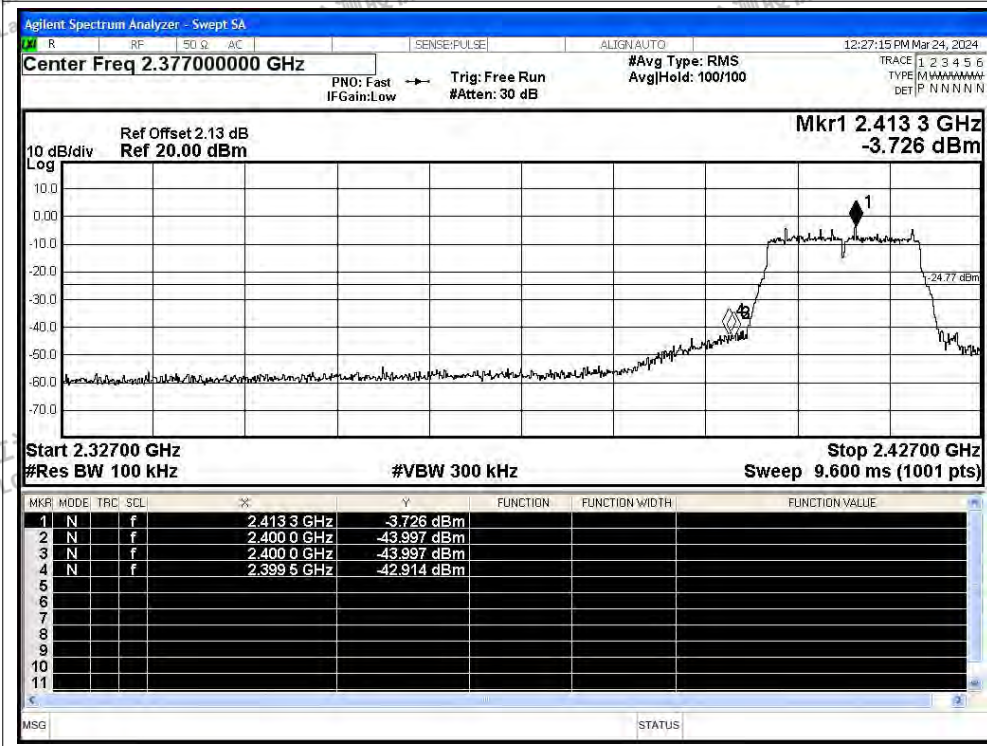




Band Edge NVNT g 2412MHz Ant2 Ref

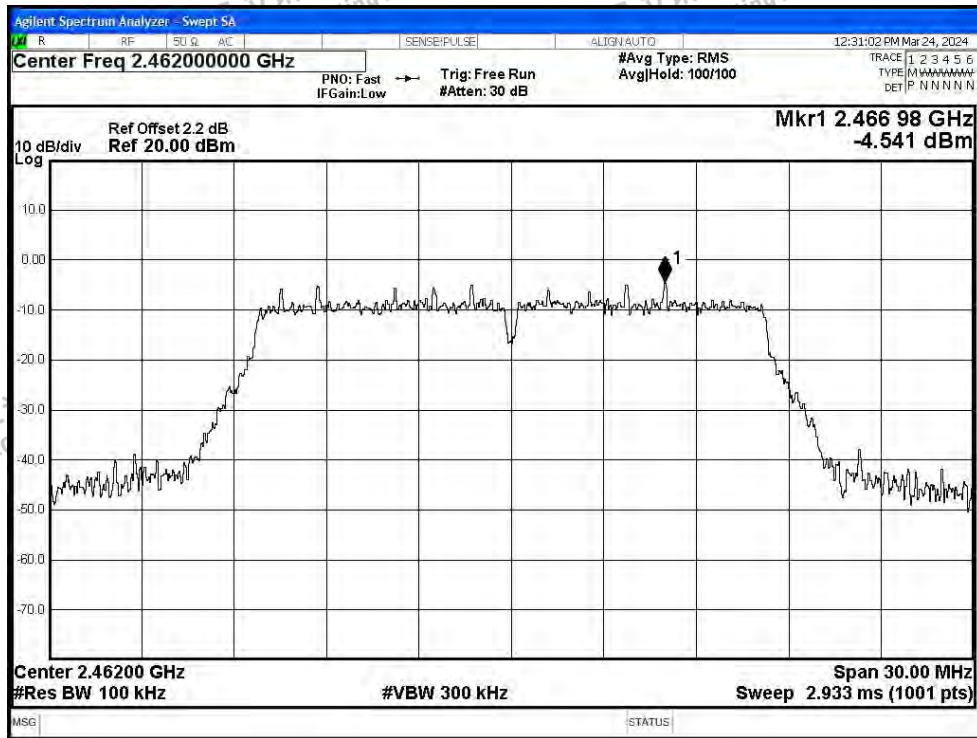


Band Edge NVNT g 2412MHz Ant2 Emission

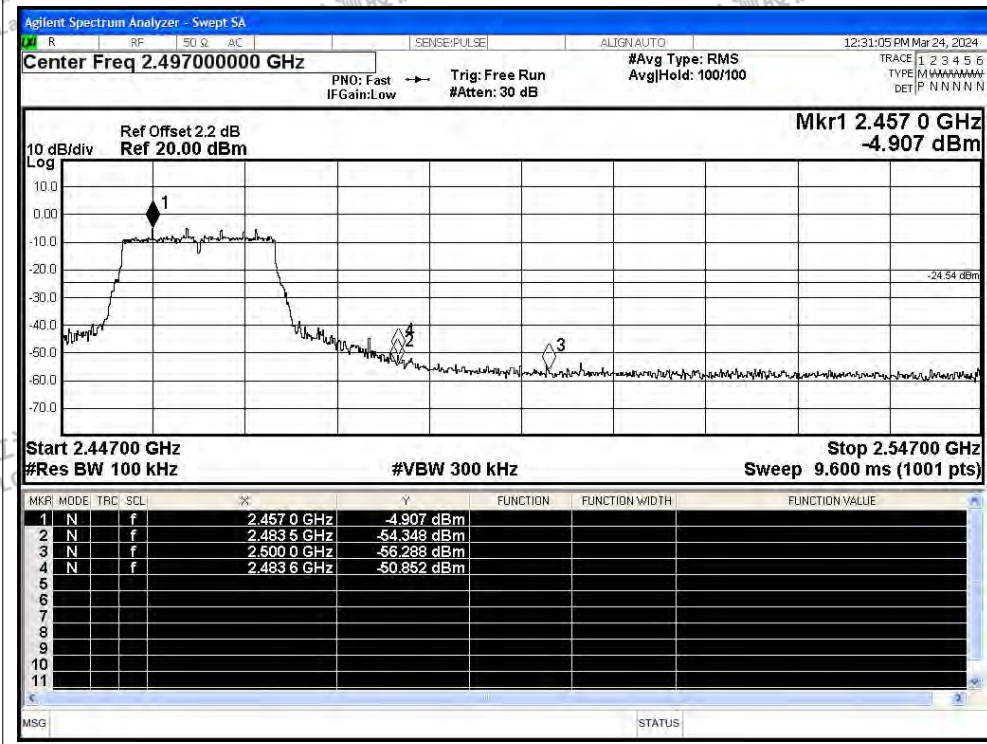




Band Edge NVNT g 2462MHz Ant2 Ref

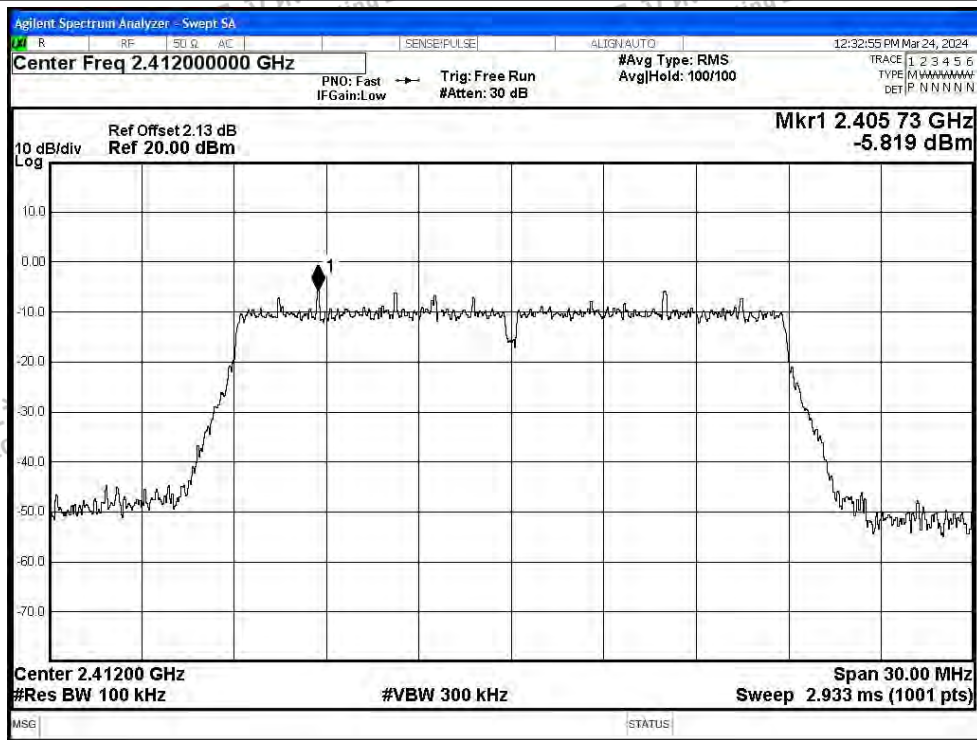


Band Edge NVNT g 2462MHz Ant2 Emission

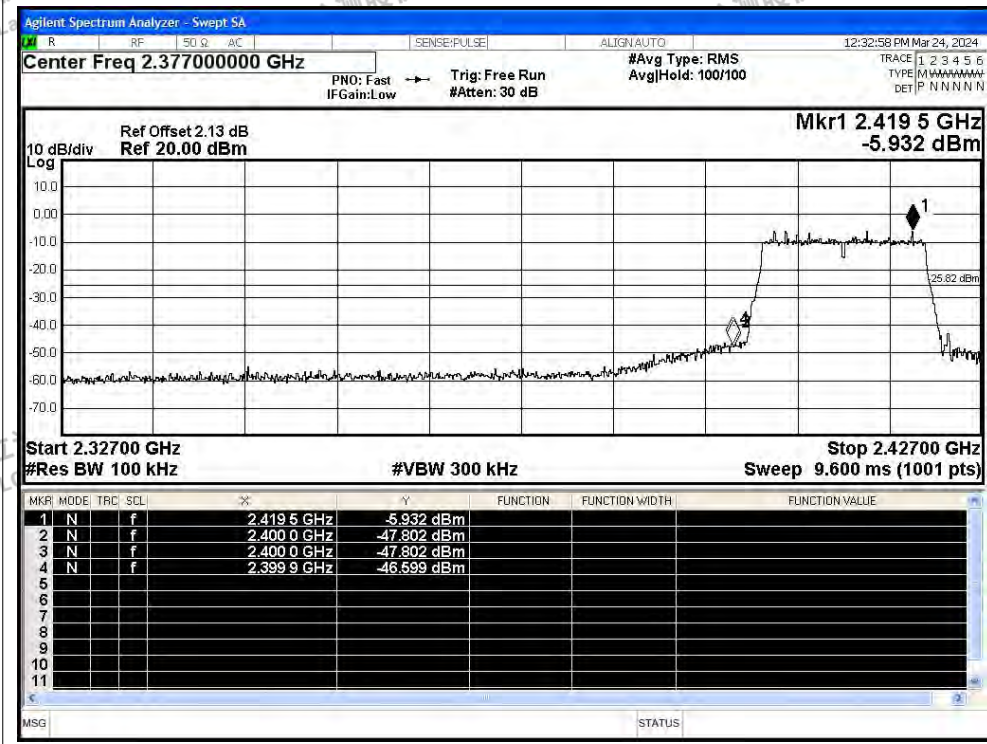




Band Edge NVNT n20 2412MHz Ant2 Ref

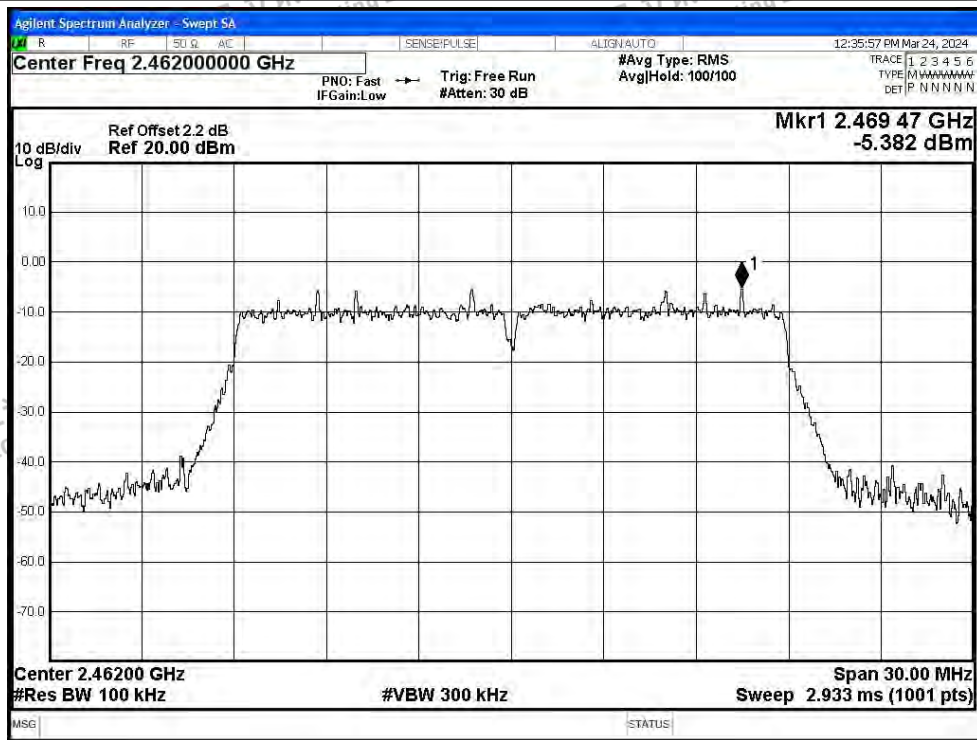


Band Edge NVNT n20 2412MHz Ant2 Emission

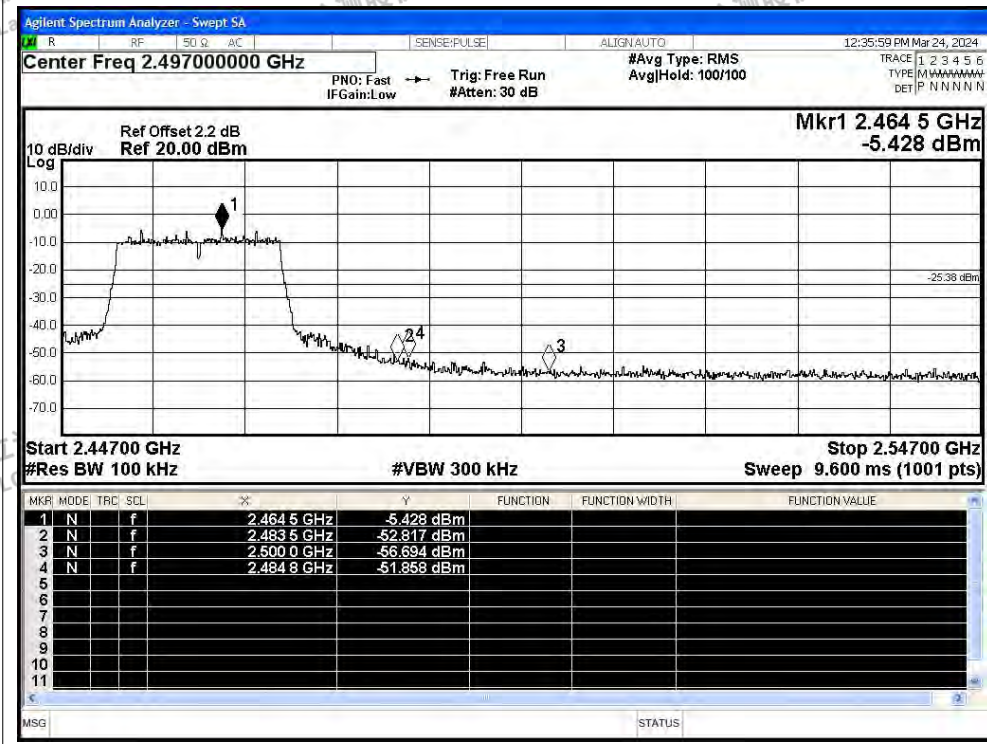




Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission





### C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.18	-20	Pass
NVNT	b	2437	Ant1	-49.63	-20	Pass
NVNT	b	2462	Ant1	-50.32	-20	Pass
NVNT	g	2412	Ant1	-42.94	-20	Pass
NVNT	g	2437	Ant1	-43.24	-20	Pass
NVNT	g	2462	Ant1	-42.36	-20	Pass
NVNT	n20	2412	Ant1	-41.69	-20	Pass
NVNT	n20	2437	Ant1	-42.92	-20	Pass
NVNT	n20	2462	Ant1	-42.04	-20	Pass



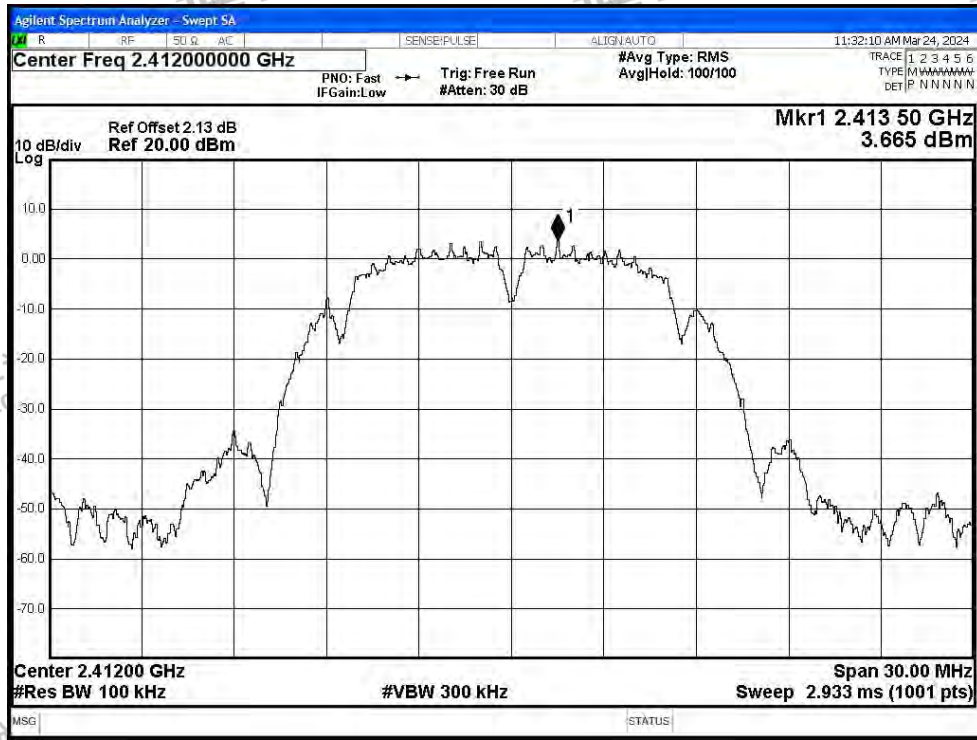
Shenzhen LCS Compliance Testing Laboratory Ltd.  
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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



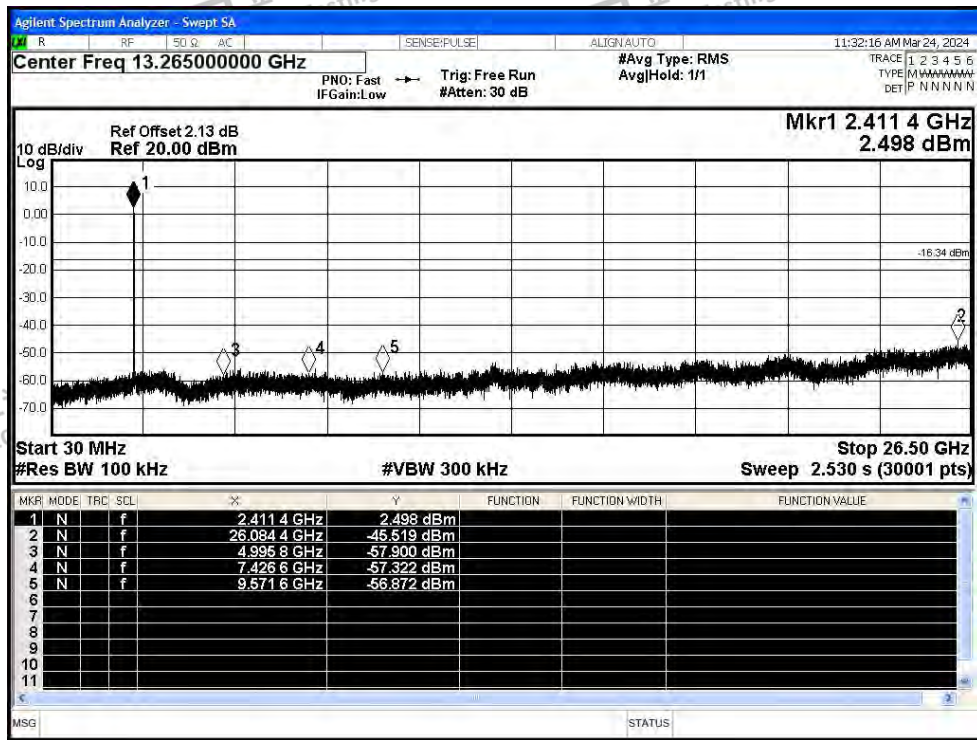


Test Graphs

Tx: Spurious NVNT b 2412MHz Ant1 Ref



Tx: Spurious NVNT b 2412MHz Ant1 Emission

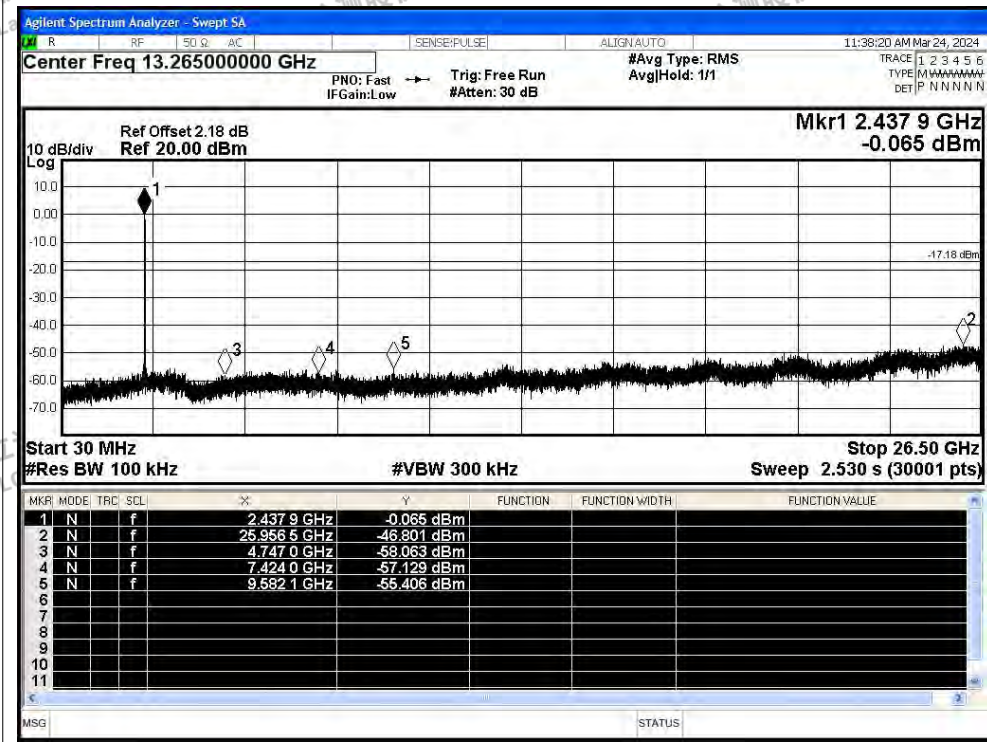




Tx. Spurious NVNT b 2437MHz Ant1 Ref

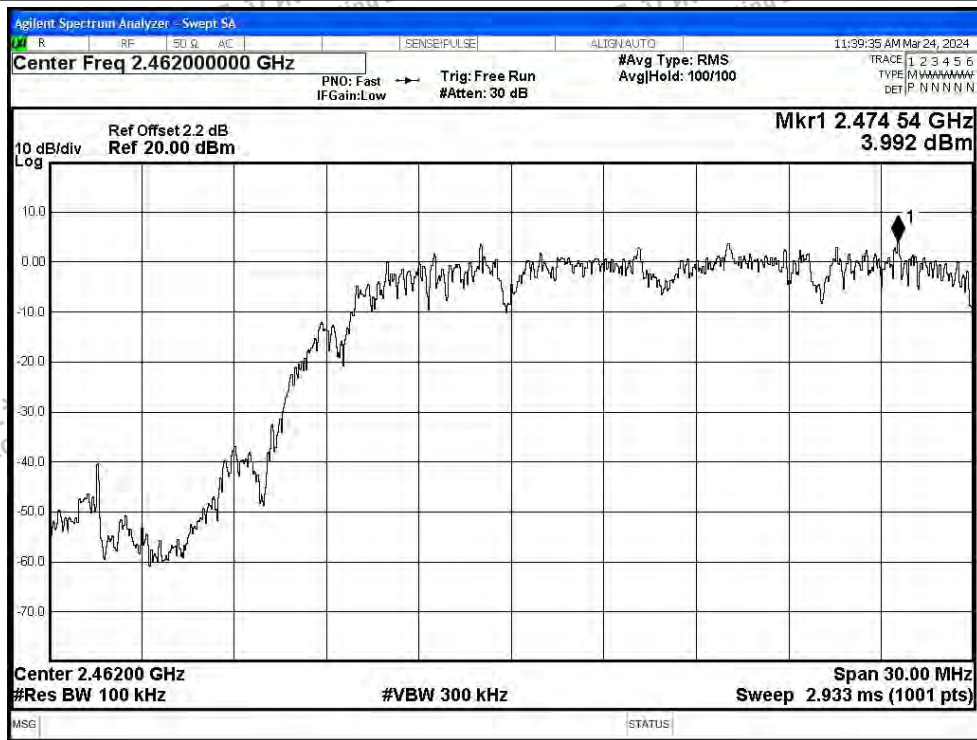


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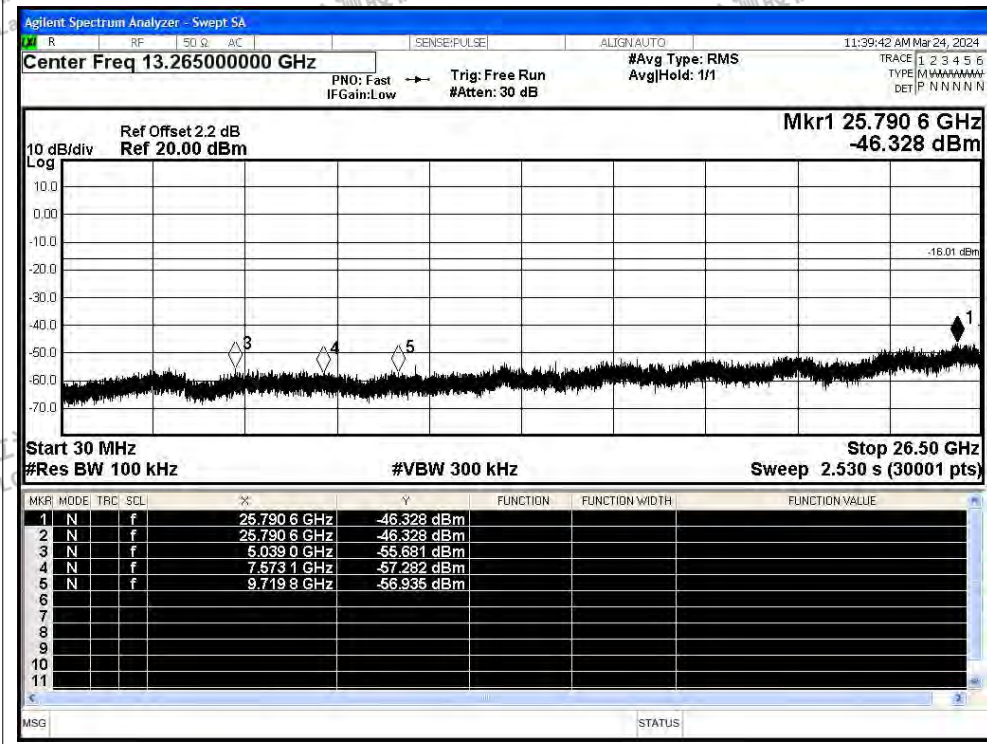




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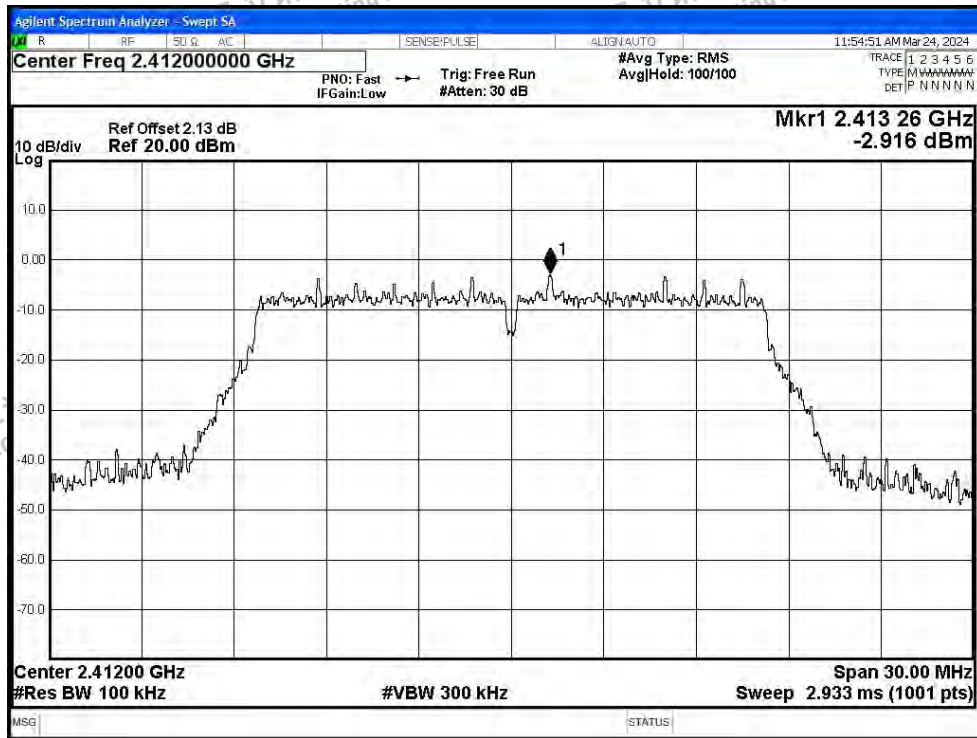


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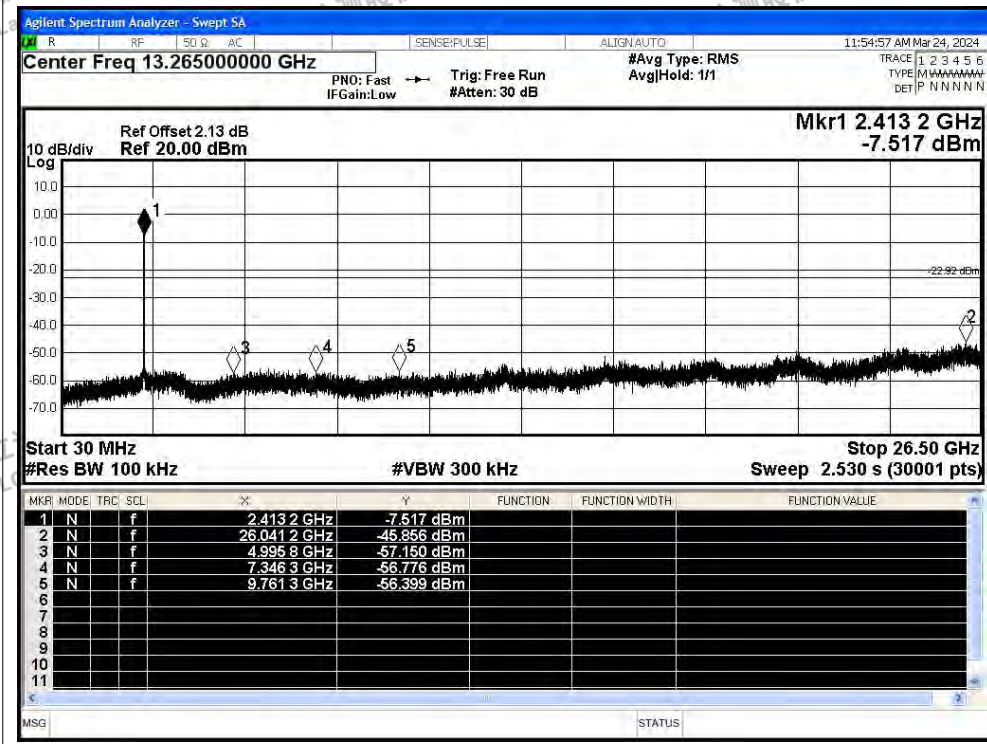




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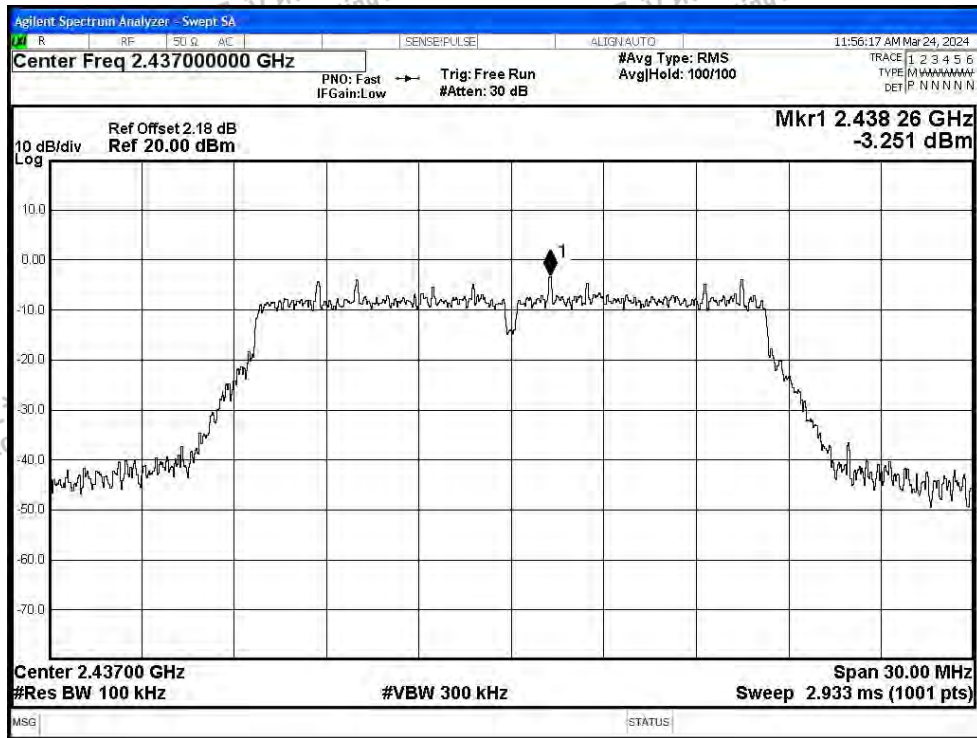


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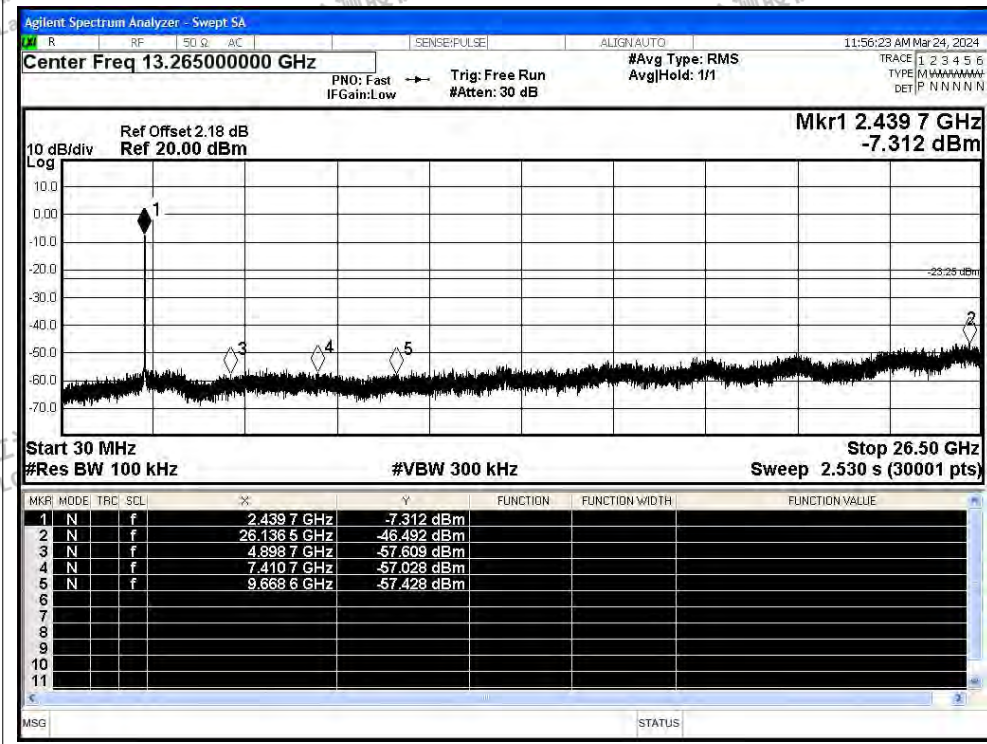




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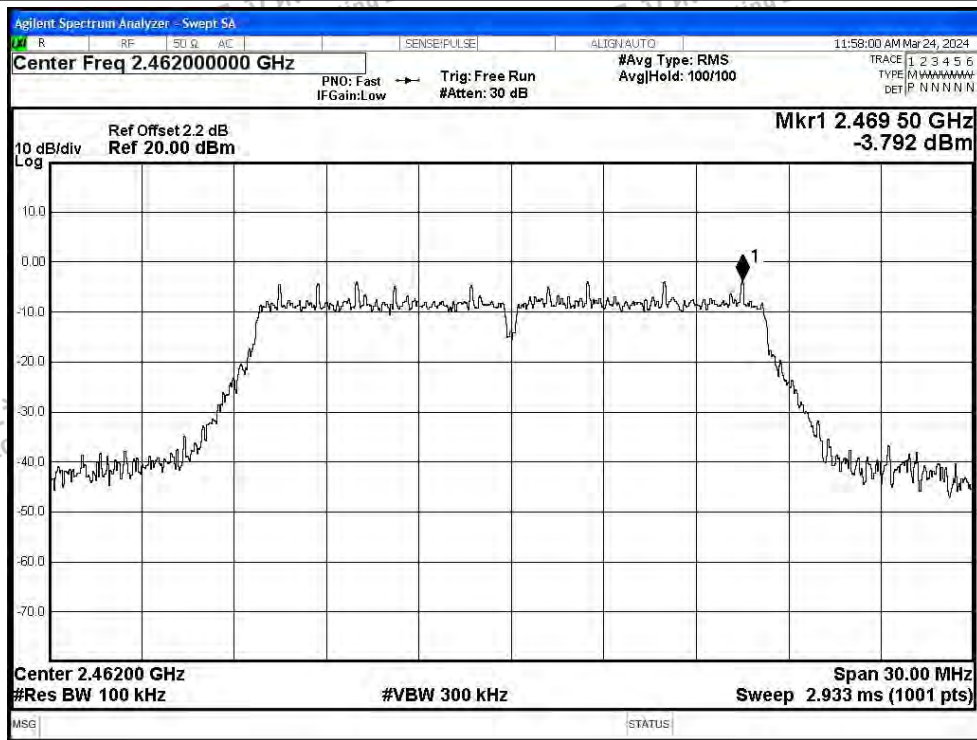


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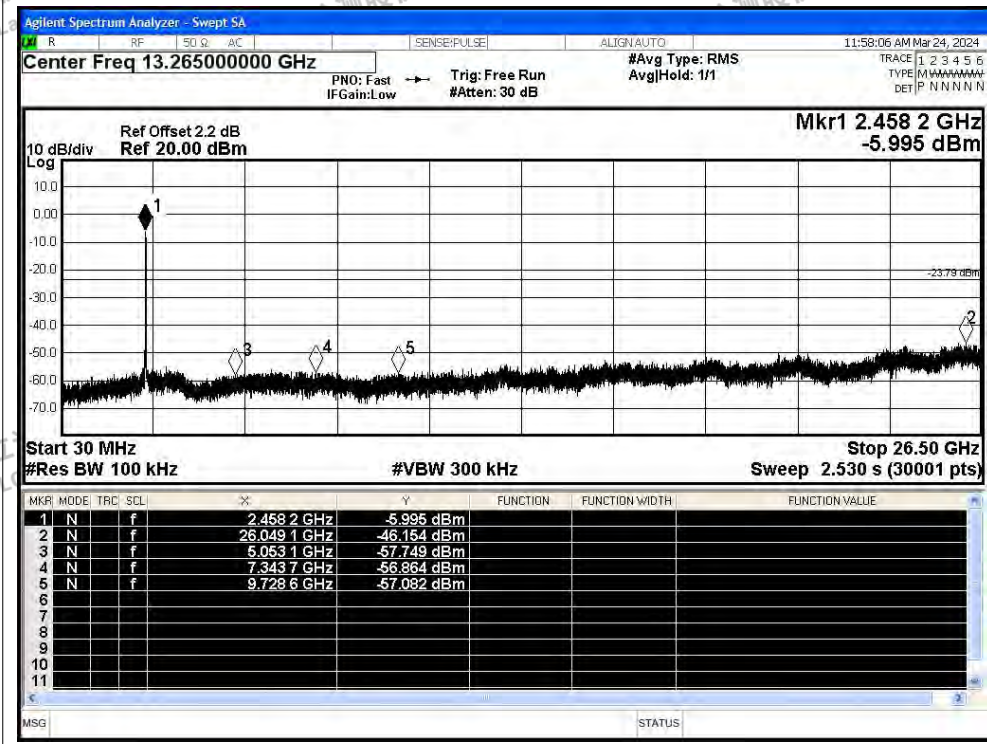




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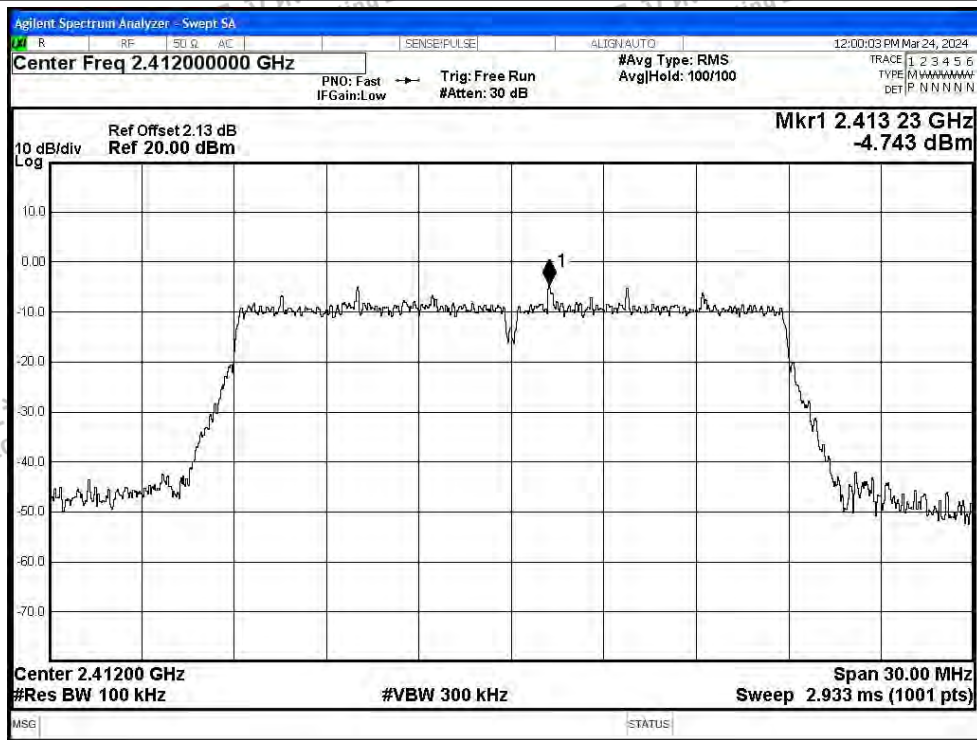


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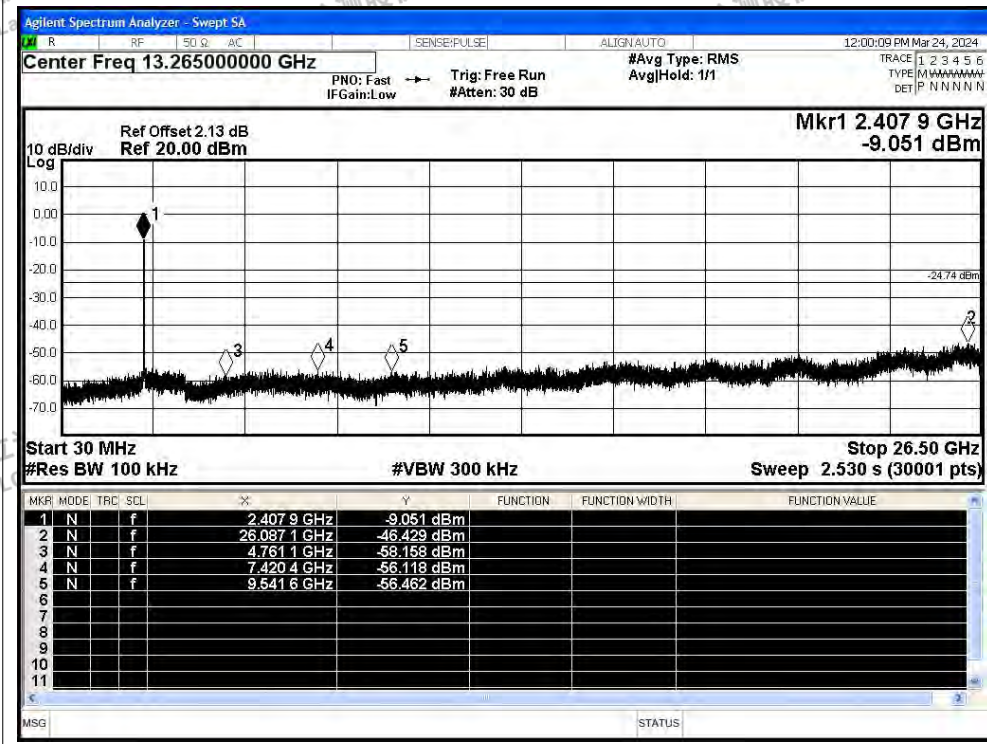




Tx. Spurious NVNT n20 2412MHz Ant1 Ref

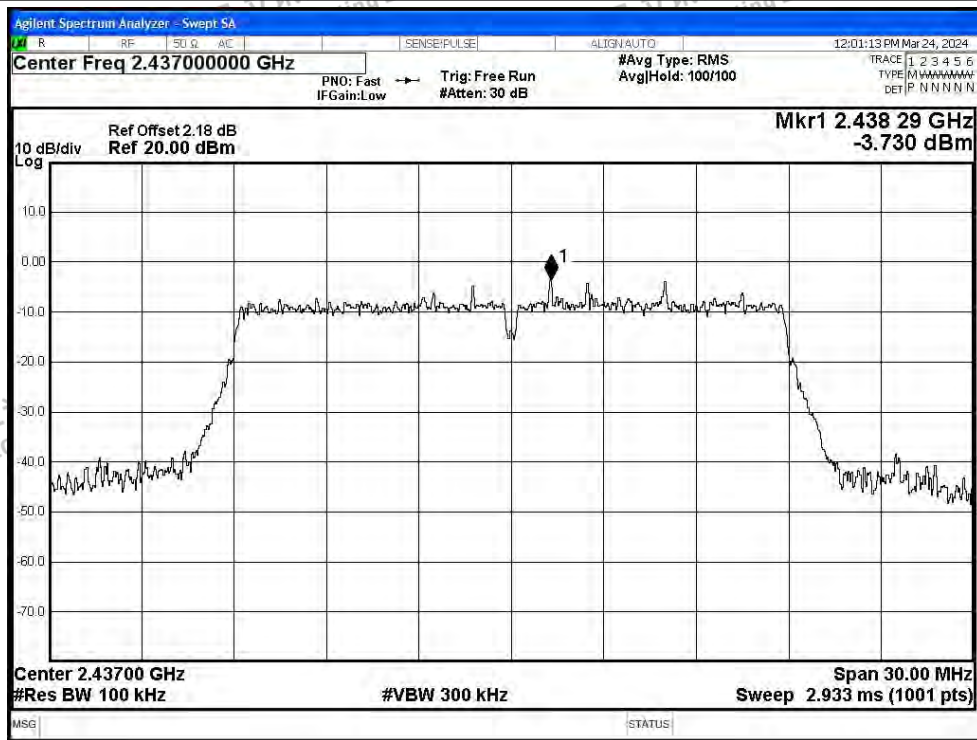


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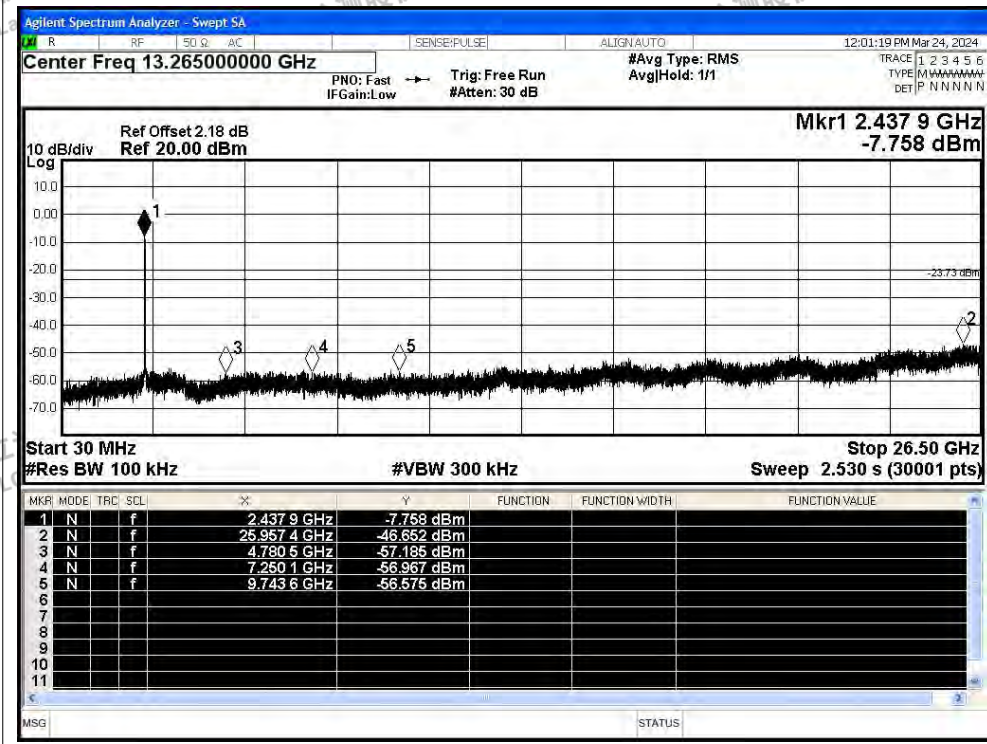




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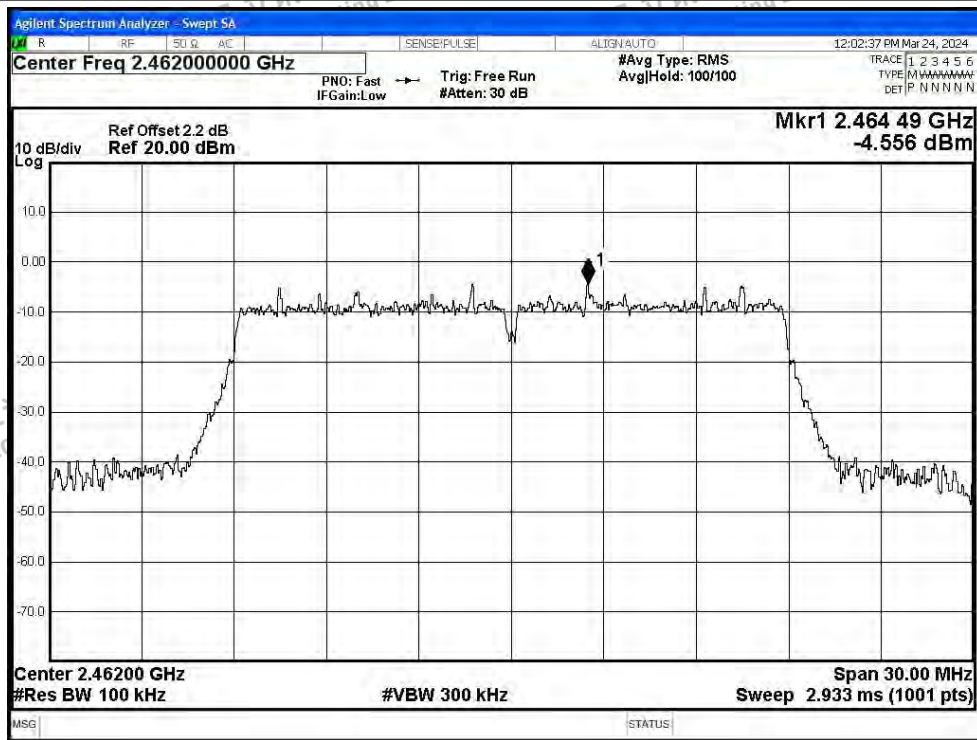
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



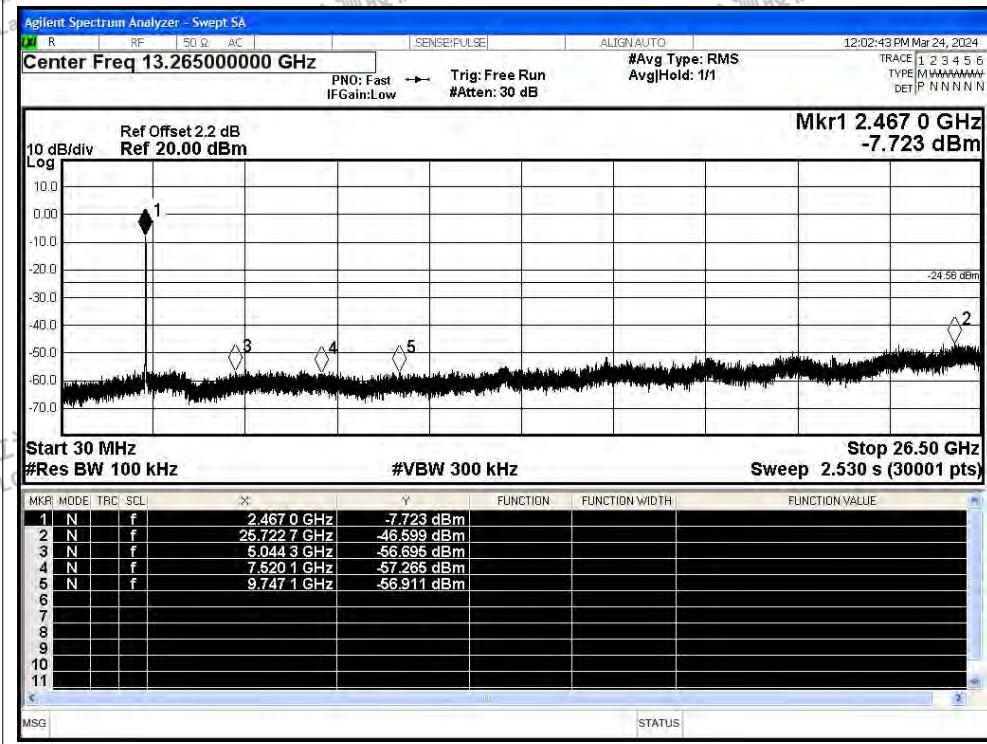




Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission





Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-48.38	-20	Pass
NVNT	b	2437	Ant2	-49.31	-20	Pass
NVNT	b	2462	Ant2	-46.18	-20	Pass
NVNT	g	2412	Ant2	-41.2	-20	Pass
NVNT	g	2437	Ant2	-42.04	-20	Pass
NVNT	g	2462	Ant2	-42.25	-20	Pass
NVNT	n20	2412	Ant2	-41.98	-20	Pass
NVNT	n20	2437	Ant2	-40.65	-20	Pass
NVNT	n20	2462	Ant2	-40.79	-20	Pass

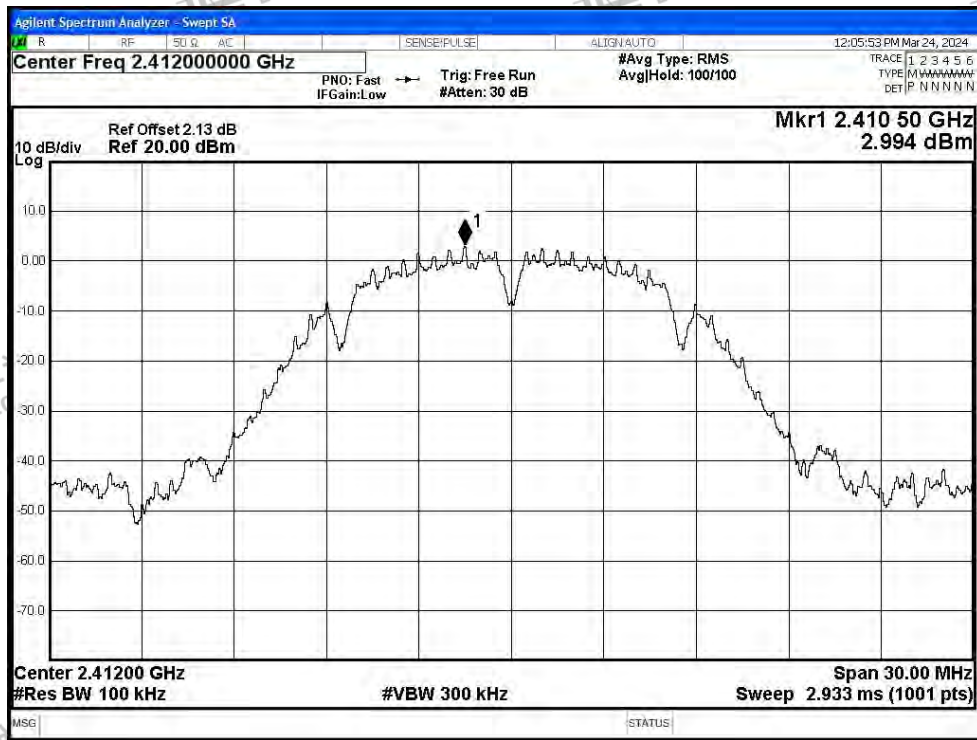


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Scan code to check authenticity

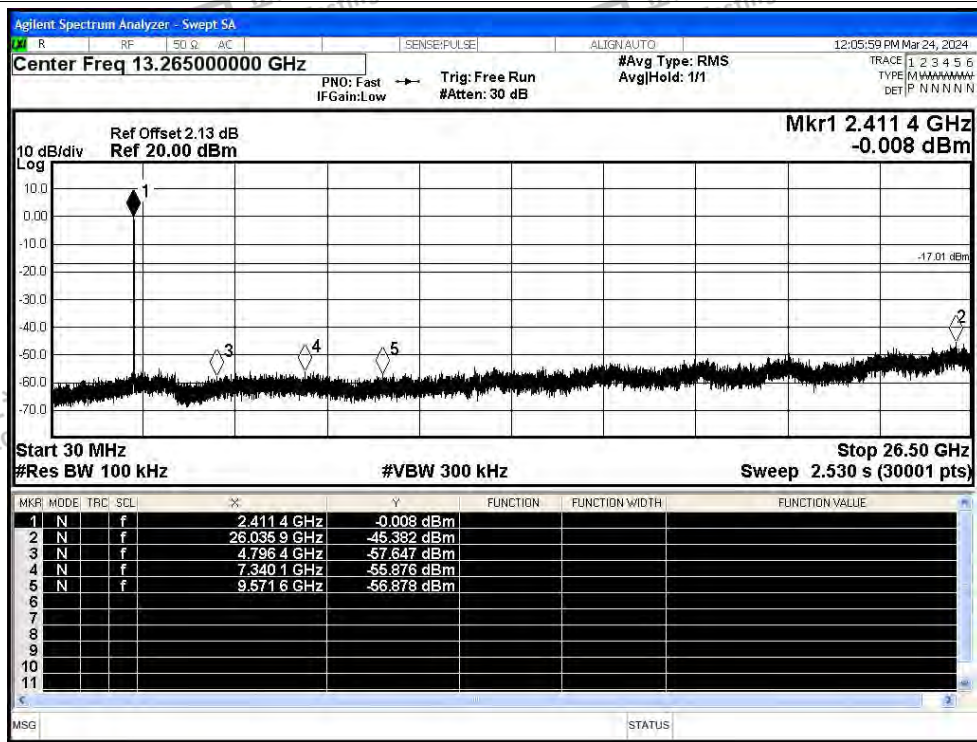


Test Graphs

Tx: Spurious NVNT b 2412MHz Ant2 Ref

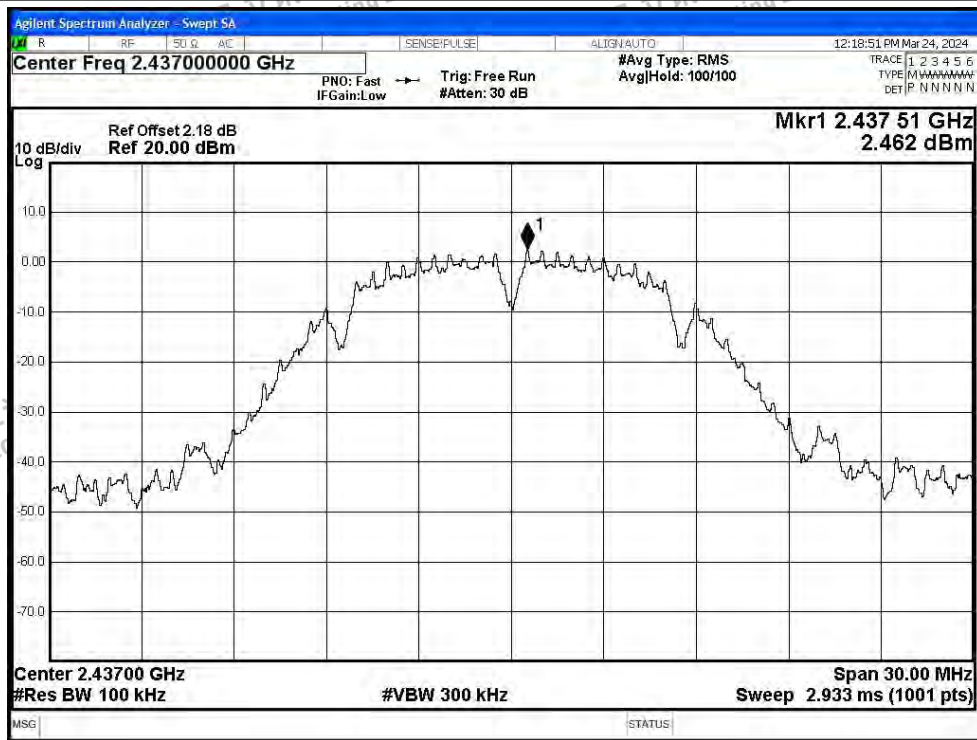


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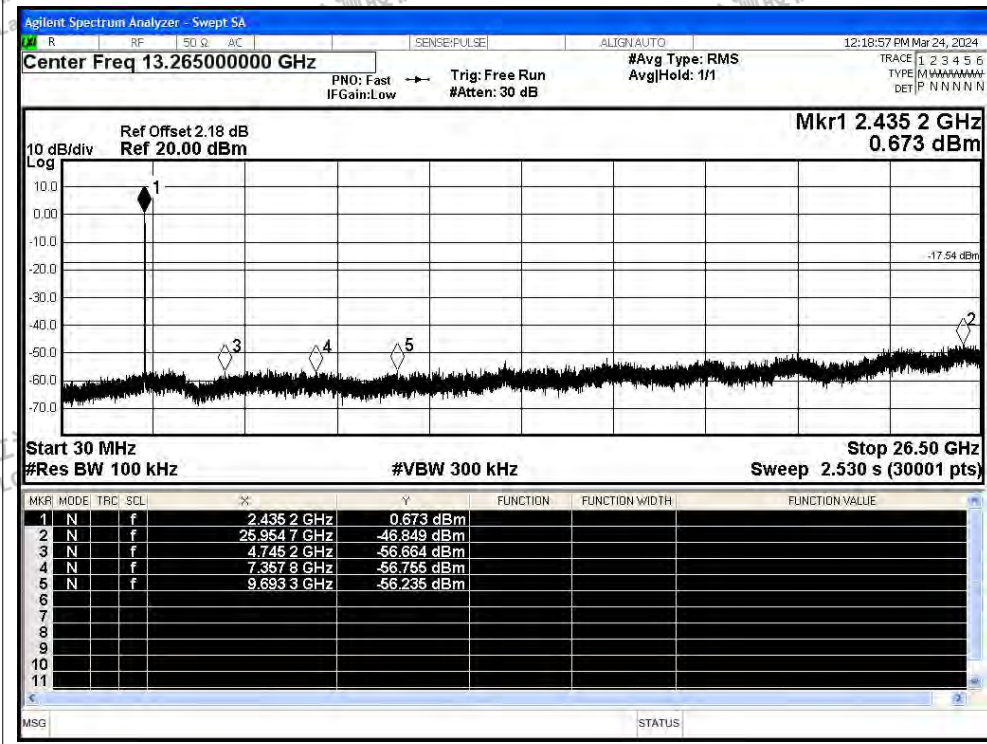




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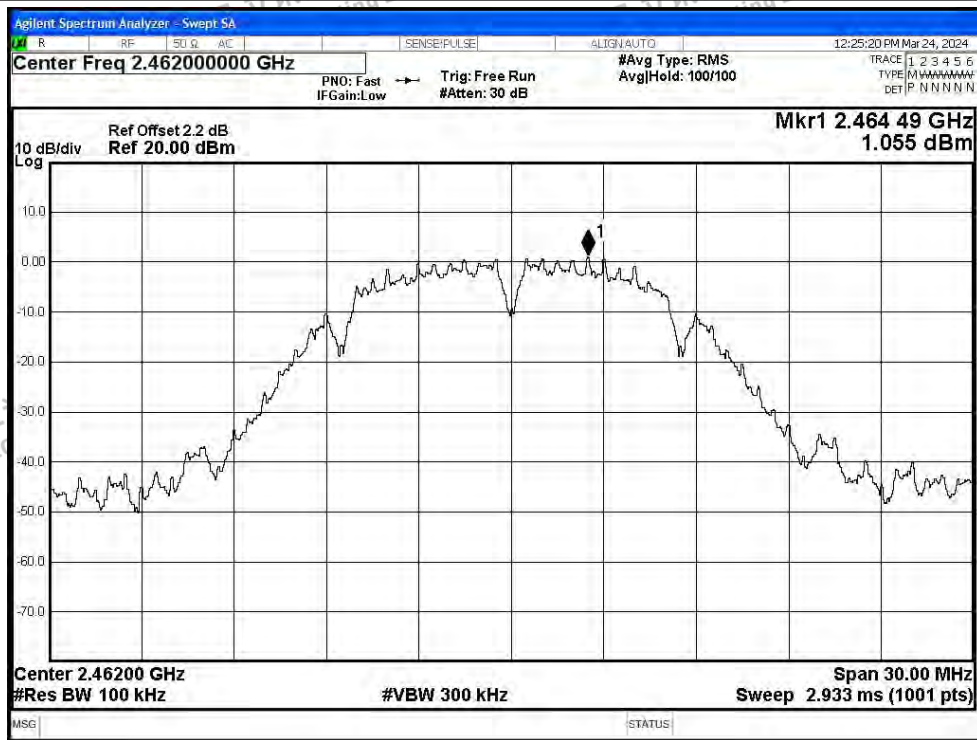


Tx. Spurious NVNT b 2437MHz Ant2 Emission

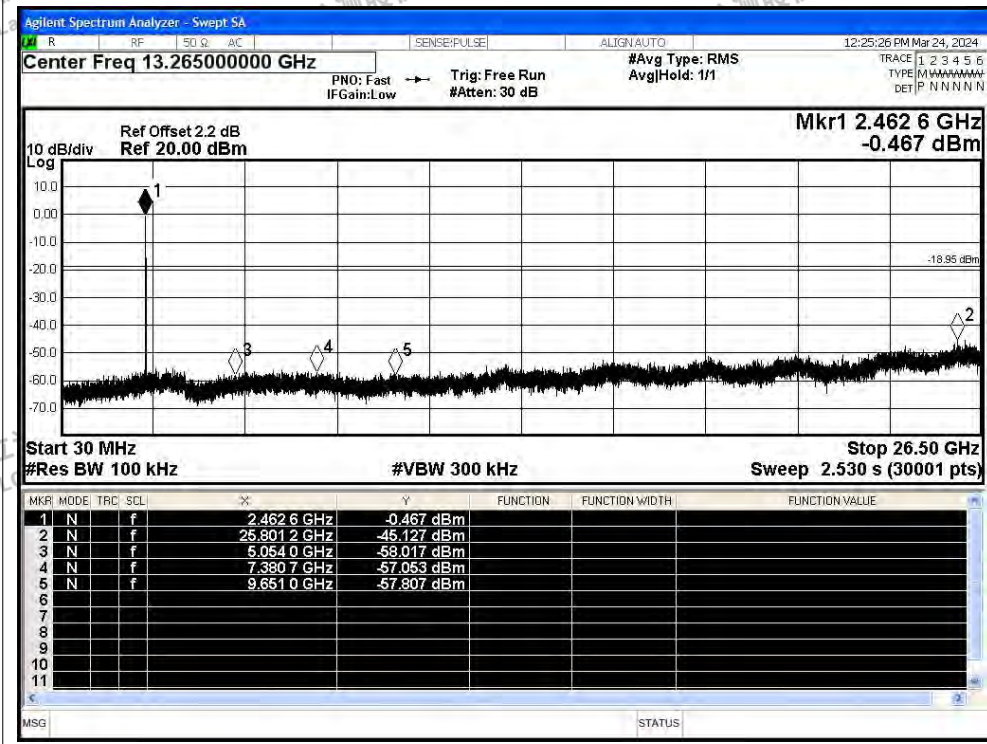




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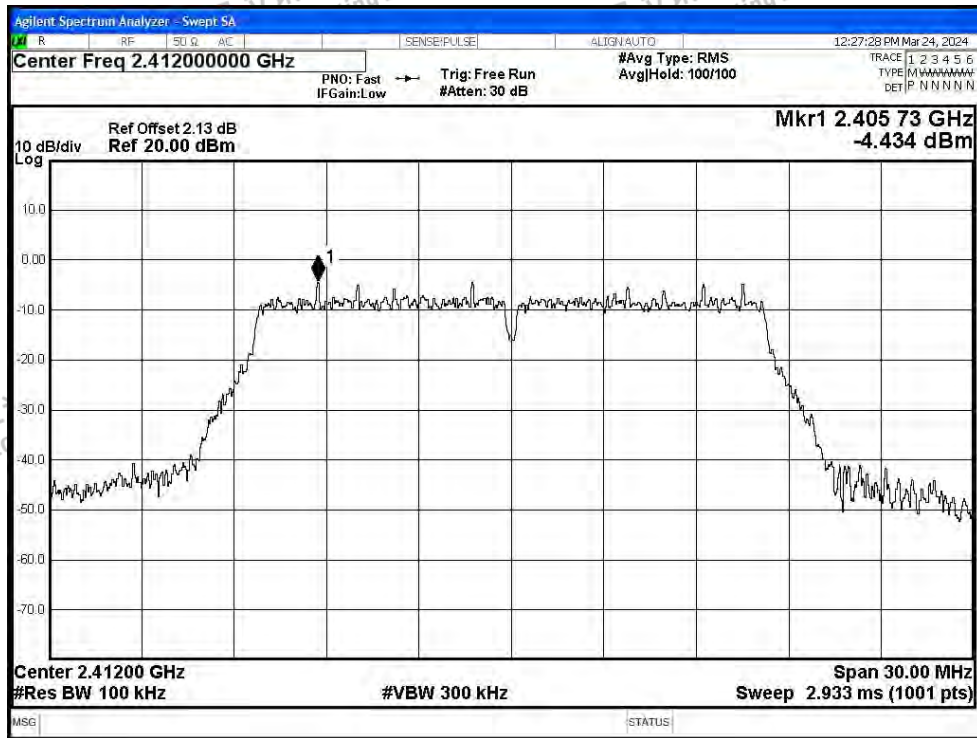


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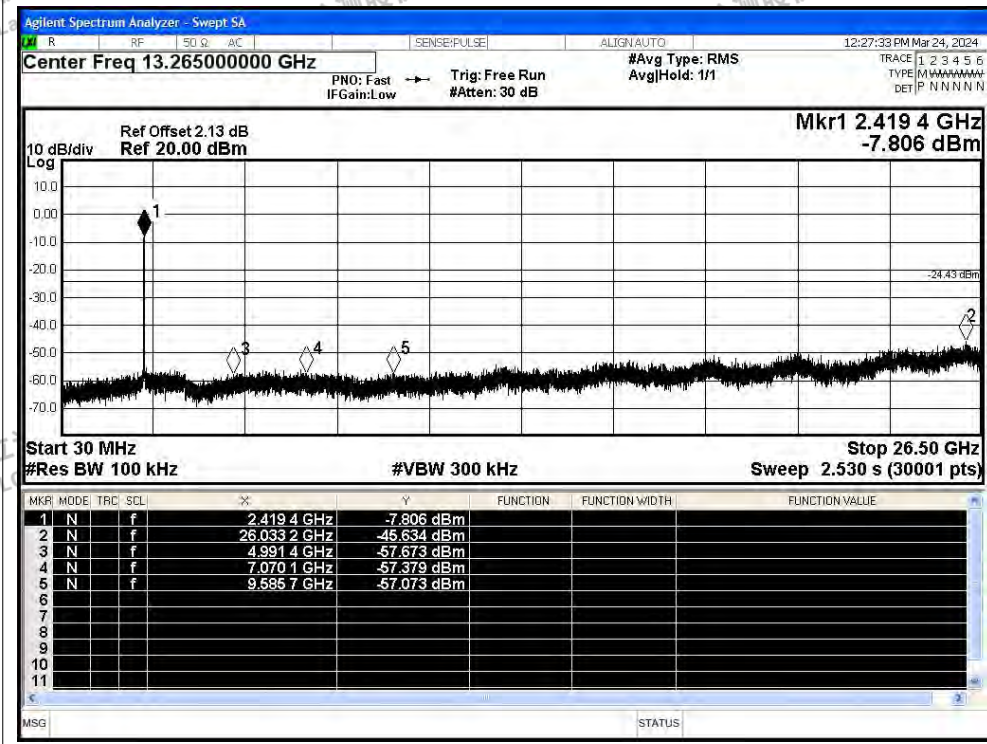




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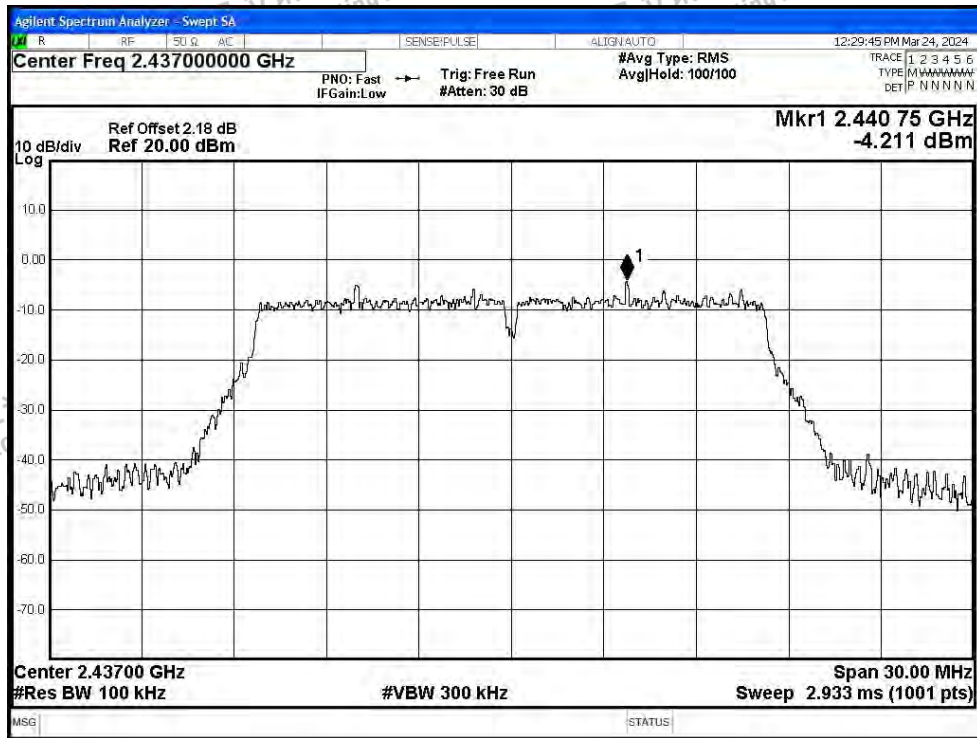


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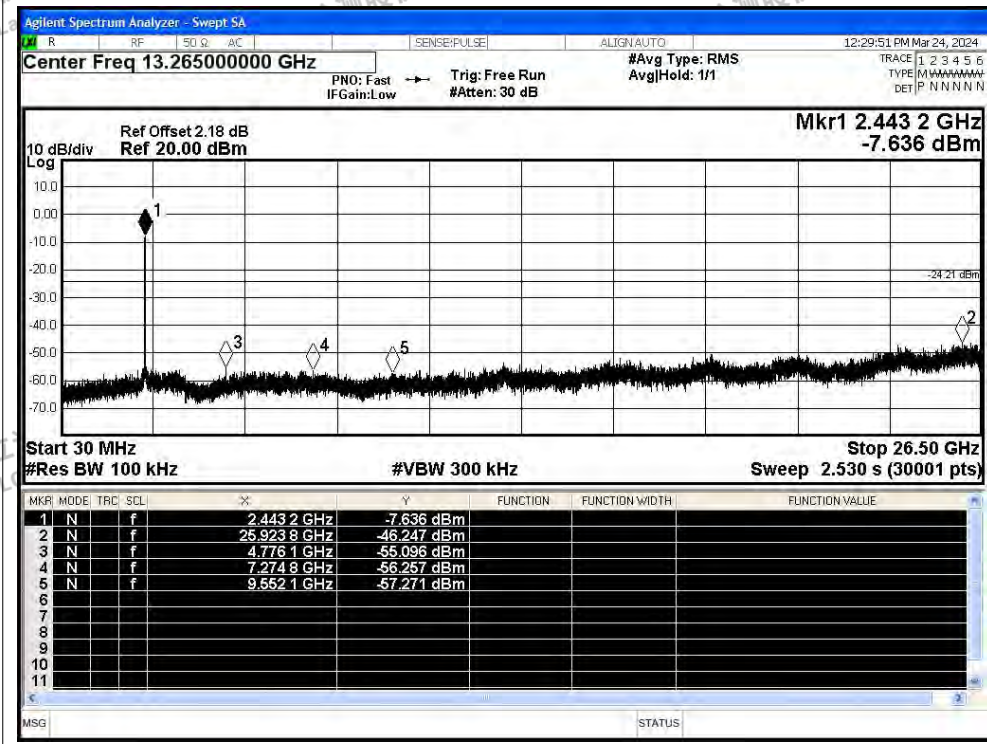




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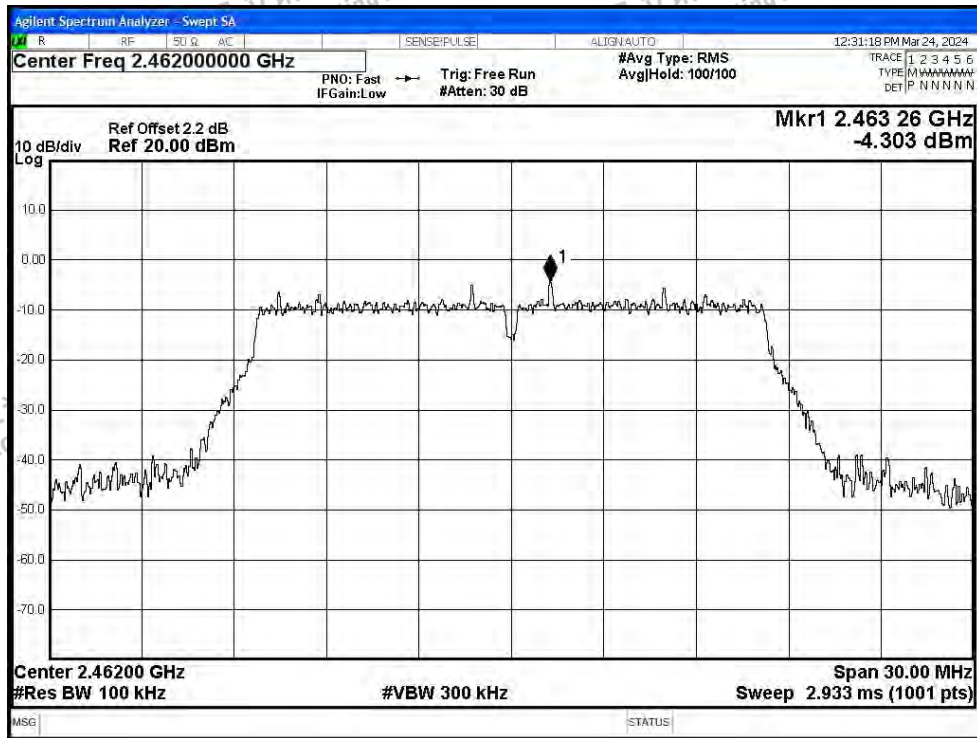


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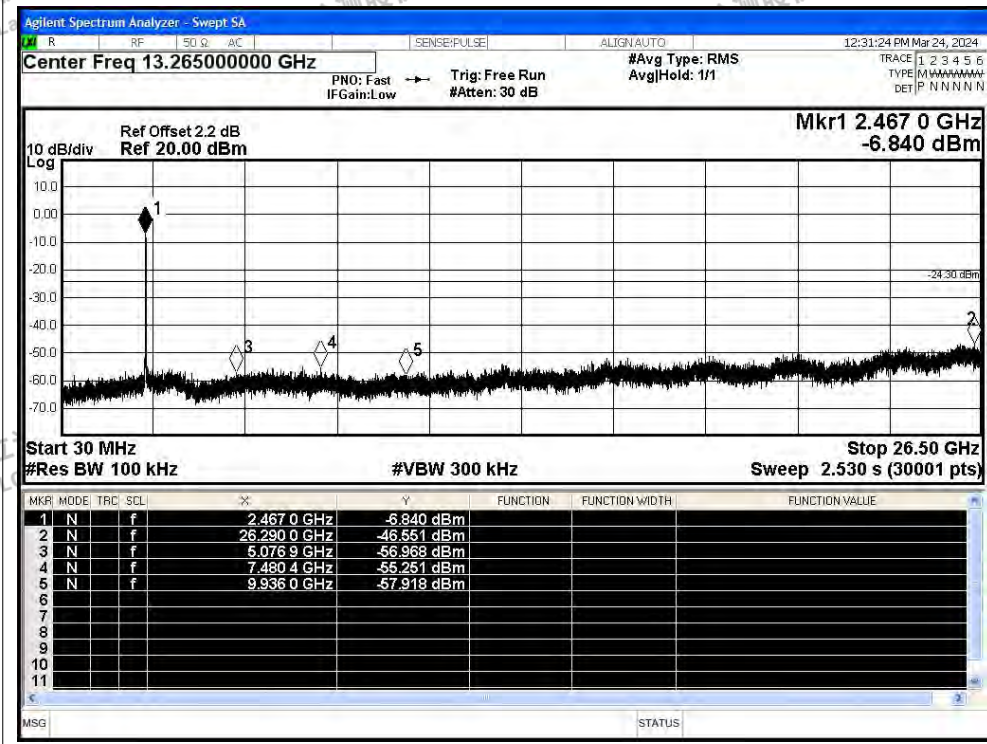




Tx. Spurious NVNT g 2462MHz Ant2 Ref



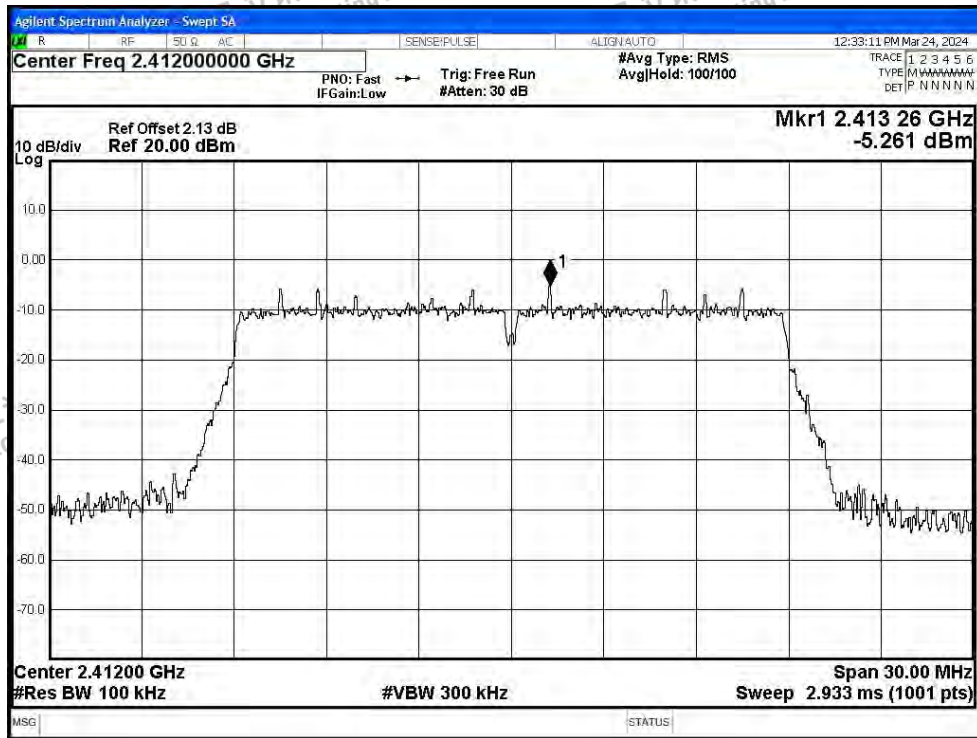
Tx. Spurious NVNT g 2462MHz Ant2 Emission



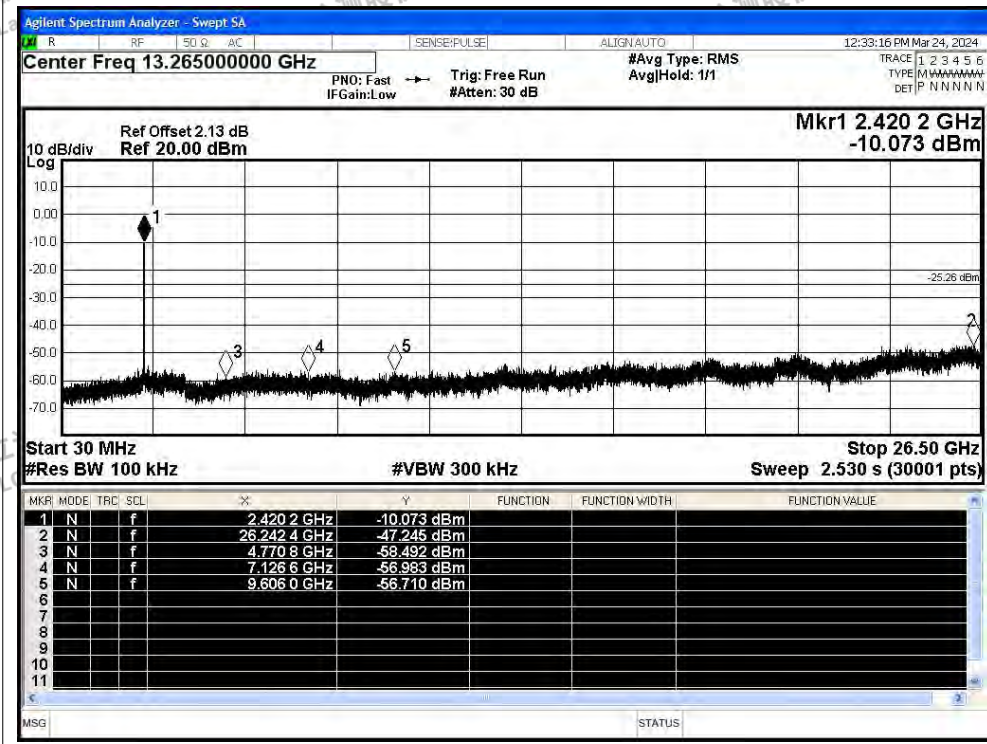




Tx. Spurious NVNT n20 2412MHz Ant2 Ref

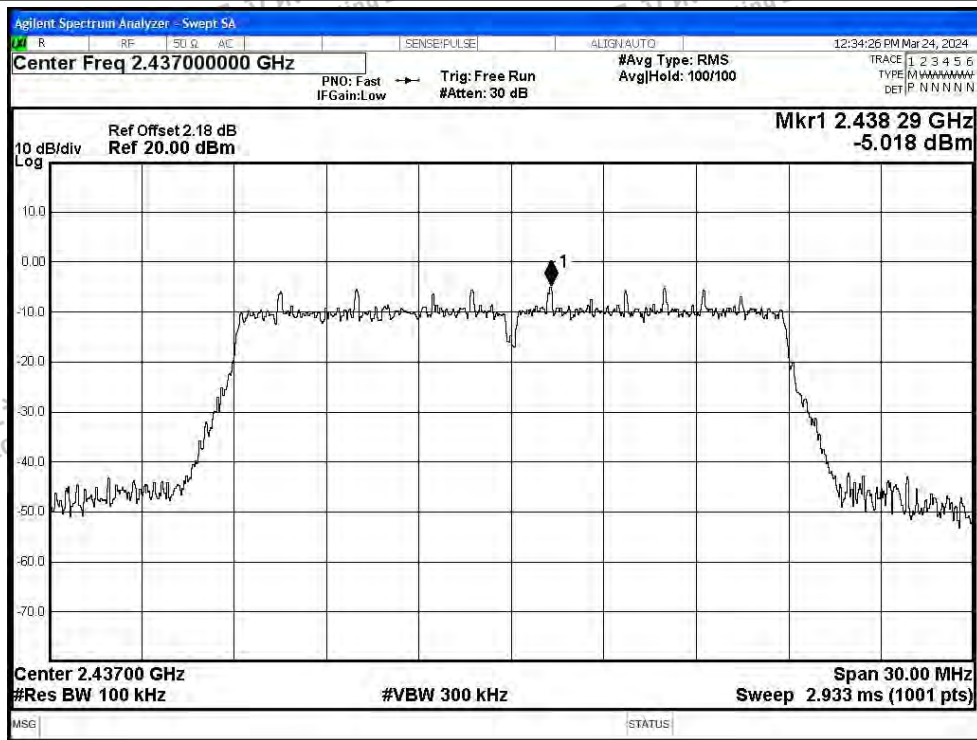


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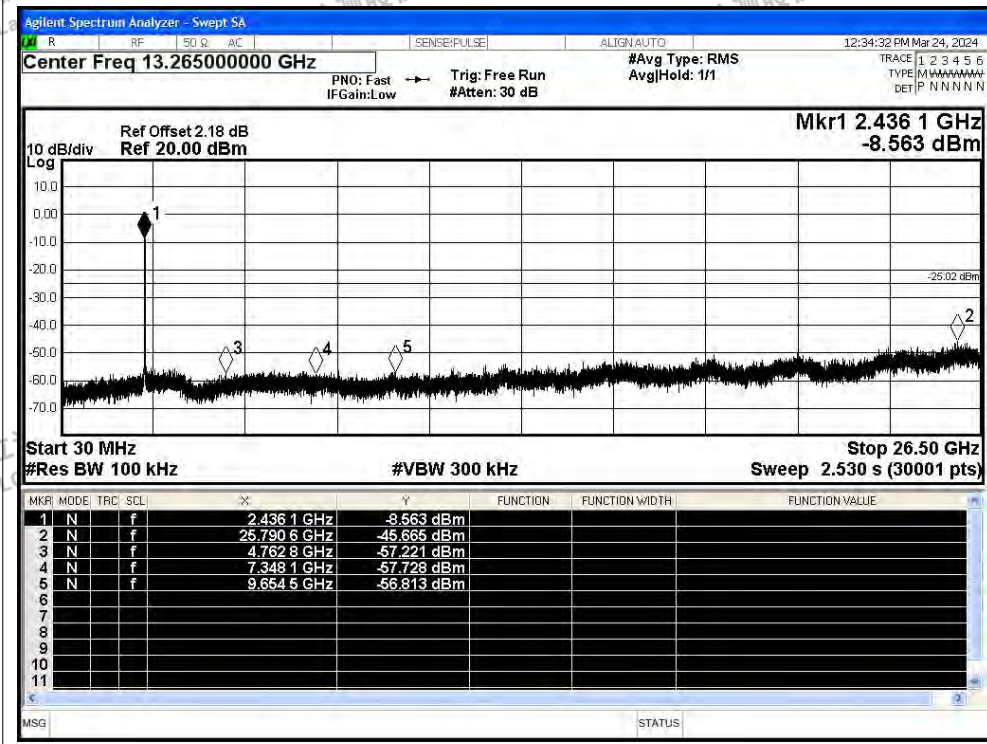




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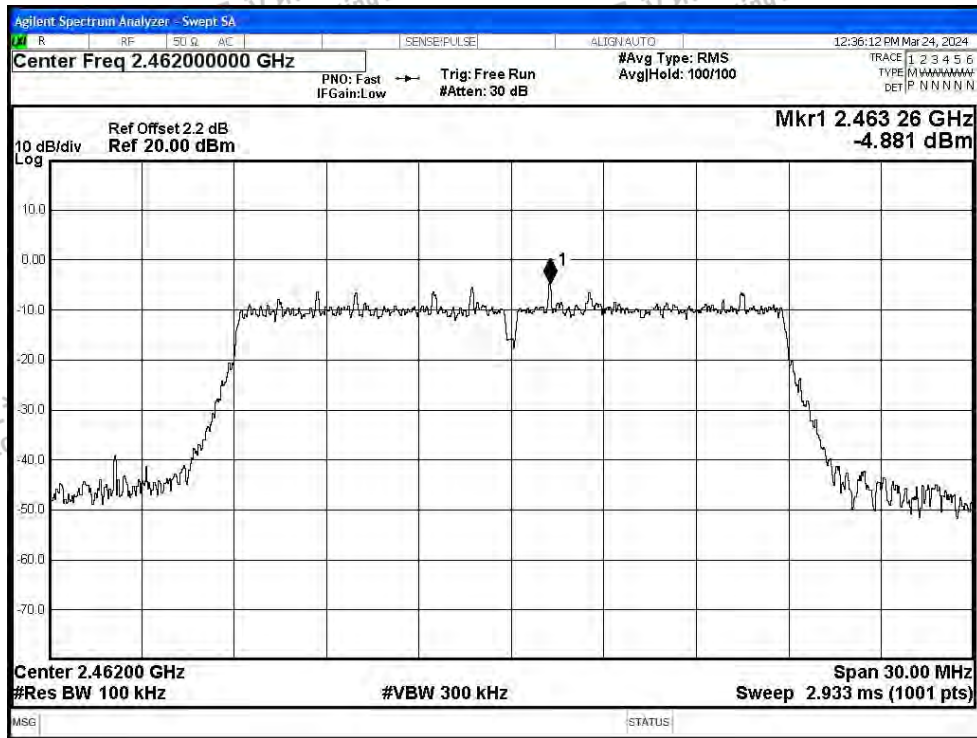


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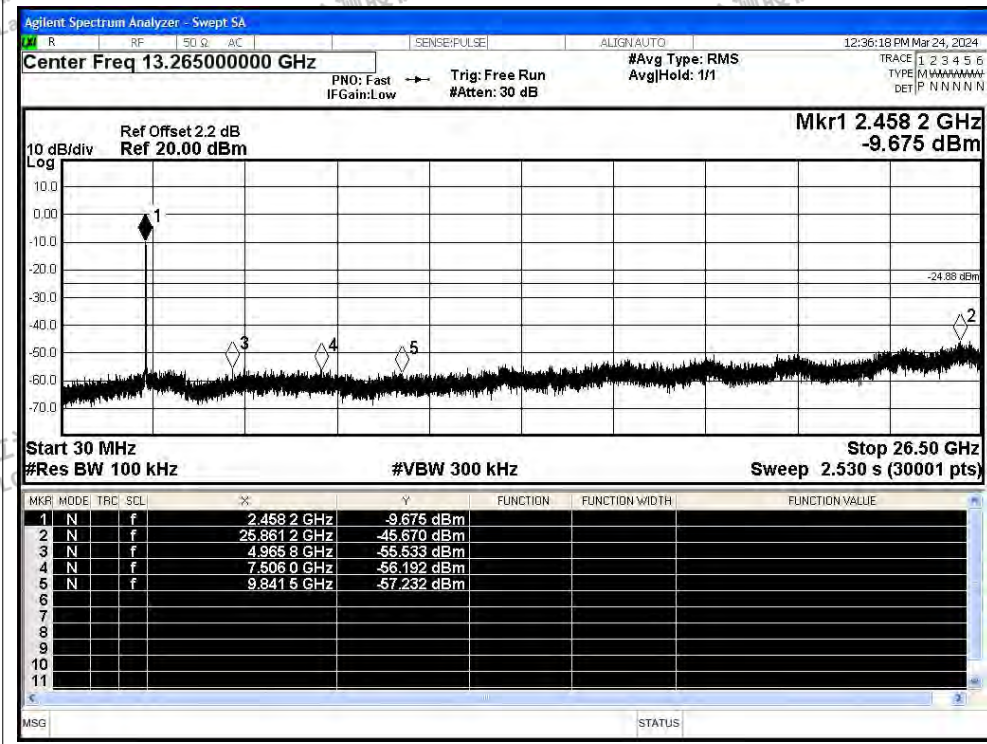




Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission





### C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.67	0	0.12
NVNT	b	2437	Ant1	99.67	0	0.12
NVNT	b	2462	Ant1	99.67	0	0.12
NVNT	g	2412	Ant1	97.62	0.1	0.72
NVNT	g	2437	Ant1	97.62	0.1	0.72
NVNT	g	2462	Ant1	97.76	0.1	0.72
NVNT	n20	2412	Ant1	97.46	0.11	0.77
NVNT	n20	2437	Ant1	97.6	0.11	0.77
NVNT	n20	2462	Ant1	97.46	0.11	0.77

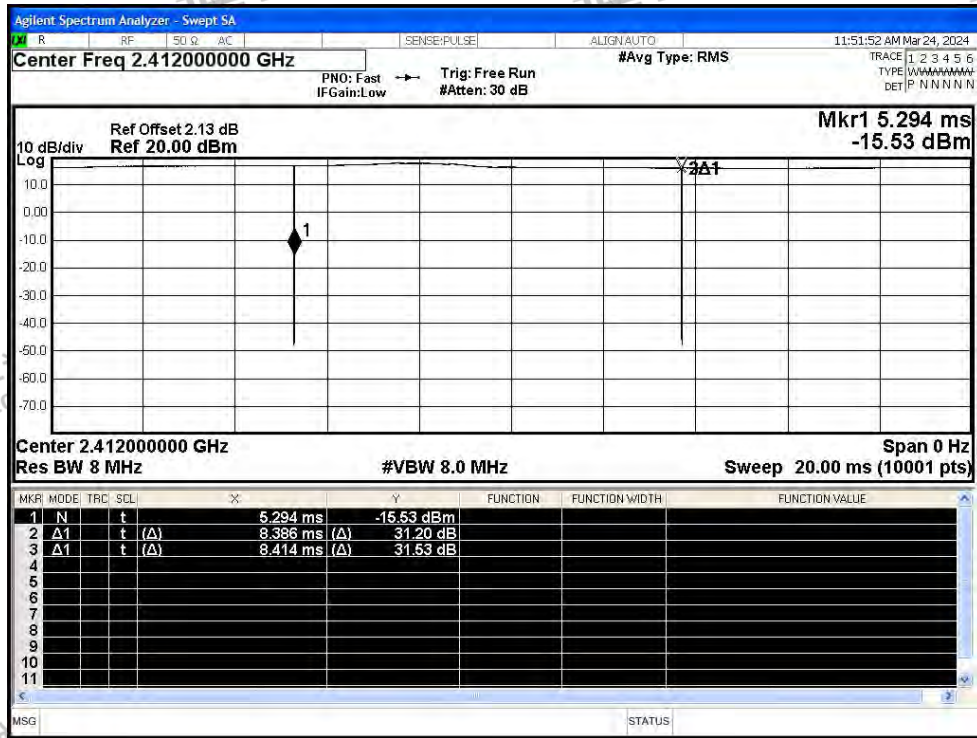


Shenzhen LCS Compliance Testing Laboratory Ltd.  
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 Scan code to check authenticity

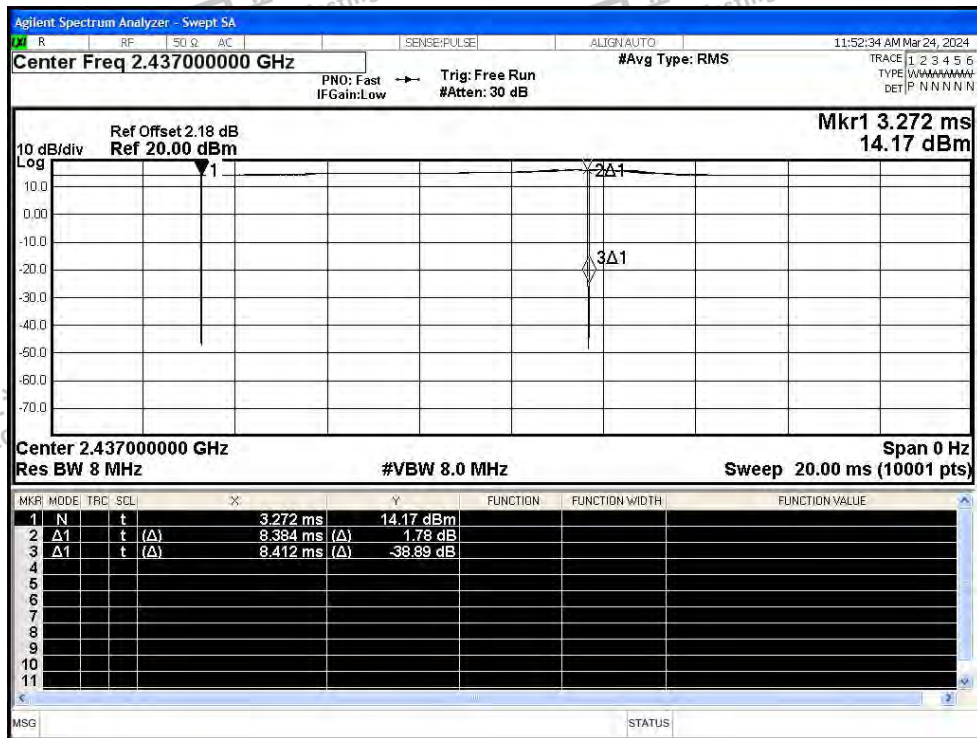


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

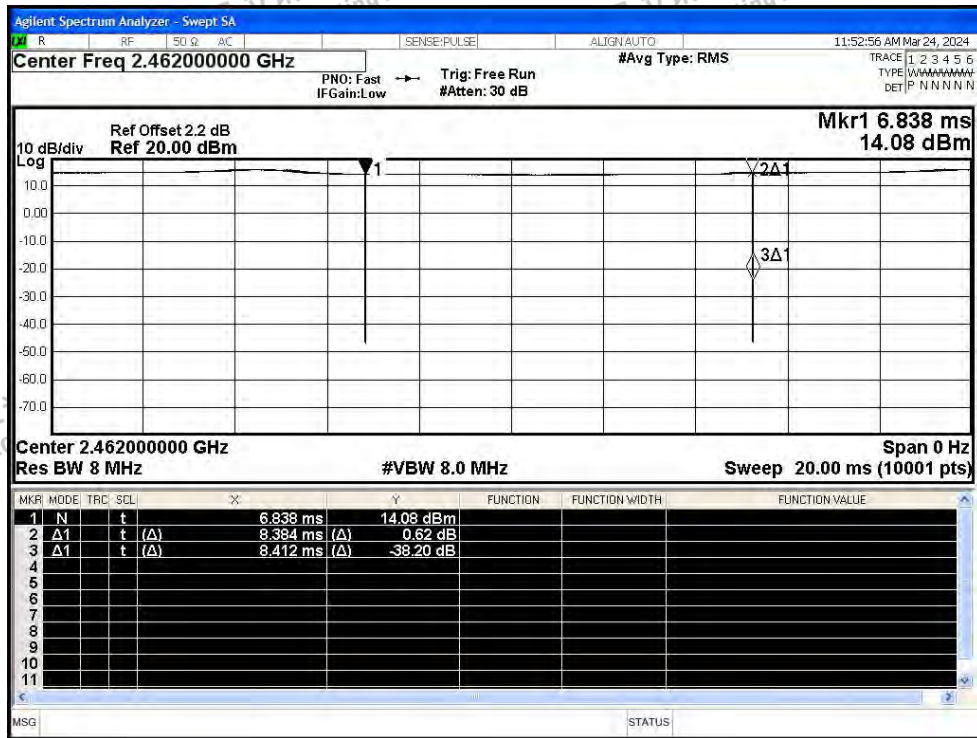


Duty Cycle NVNT b 2437MHz Ant1

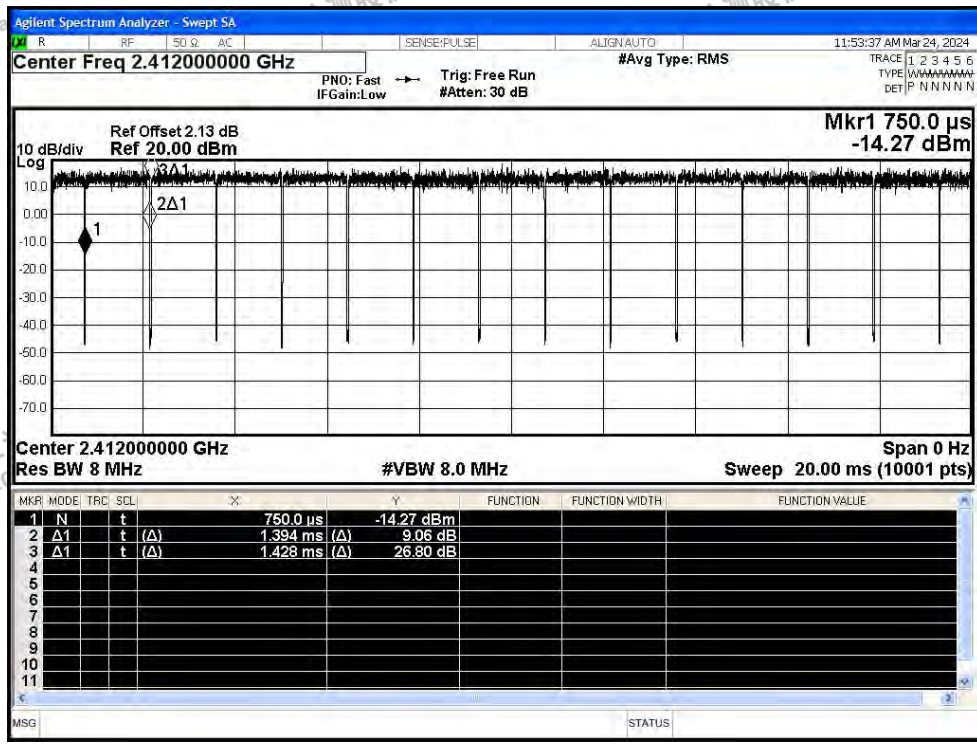




Duty Cycle NVNT b 2462MHz Ant1

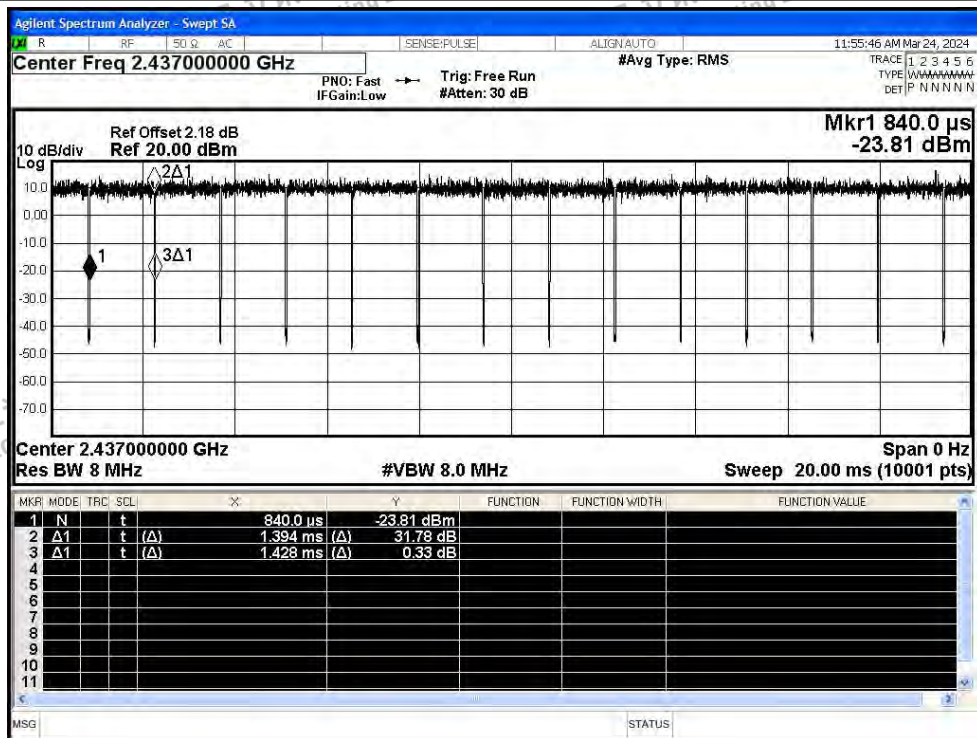


Duty Cycle NVNT g 2412MHz Ant1

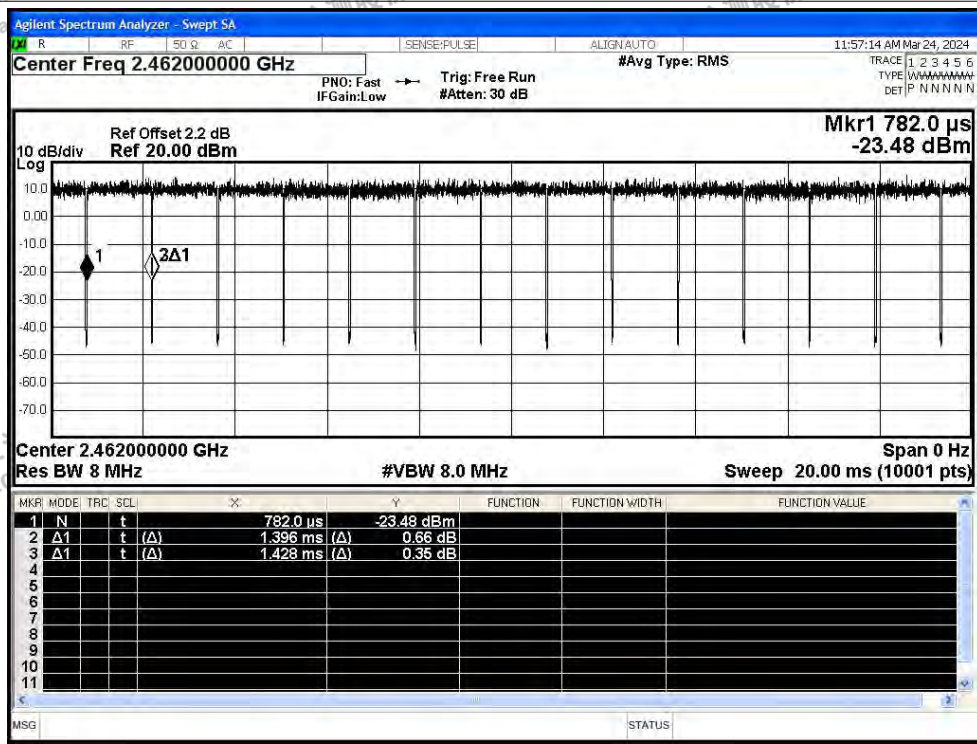




Duty Cycle NVNT g 2437MHz Ant1

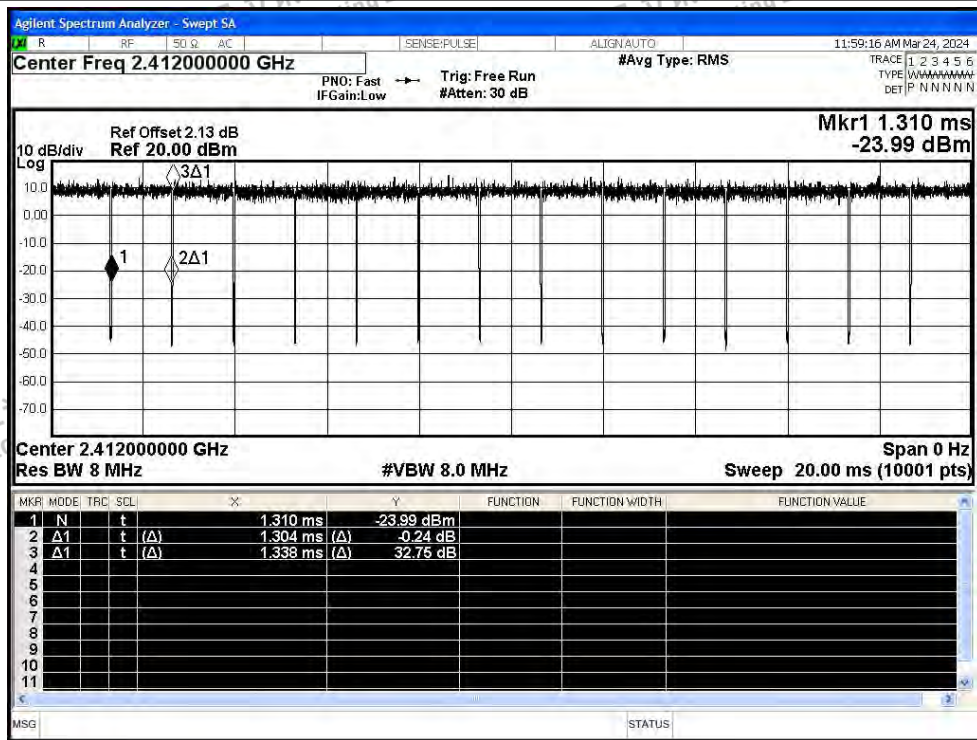


Duty Cycle NVNT g 2462MHz Ant1

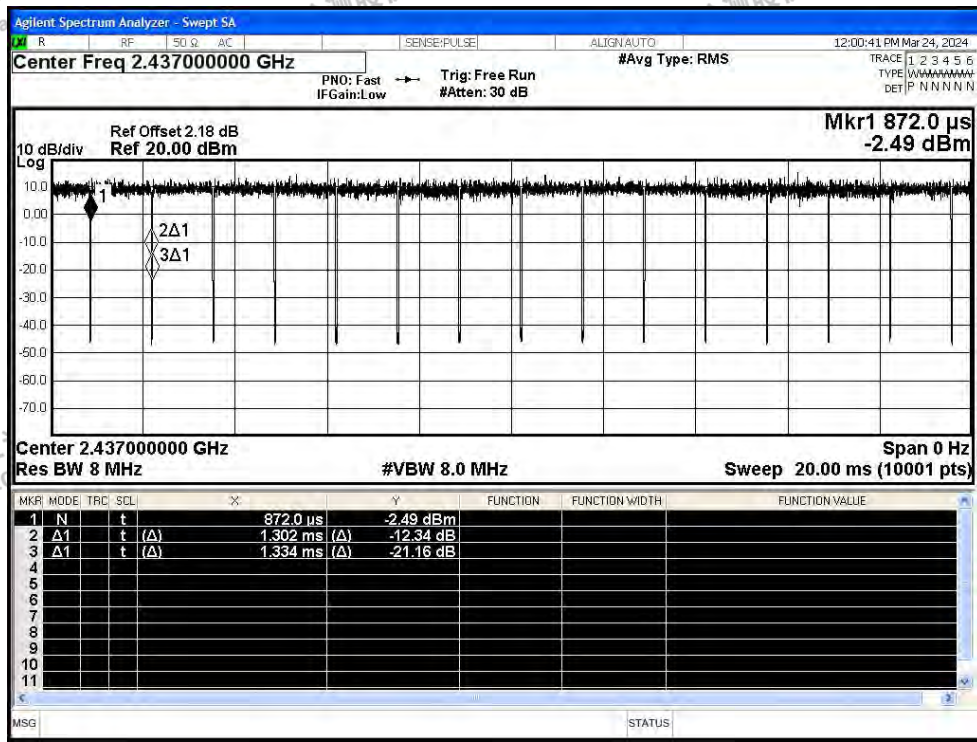




Duty Cycle NVNT n20 2412MHz Ant1



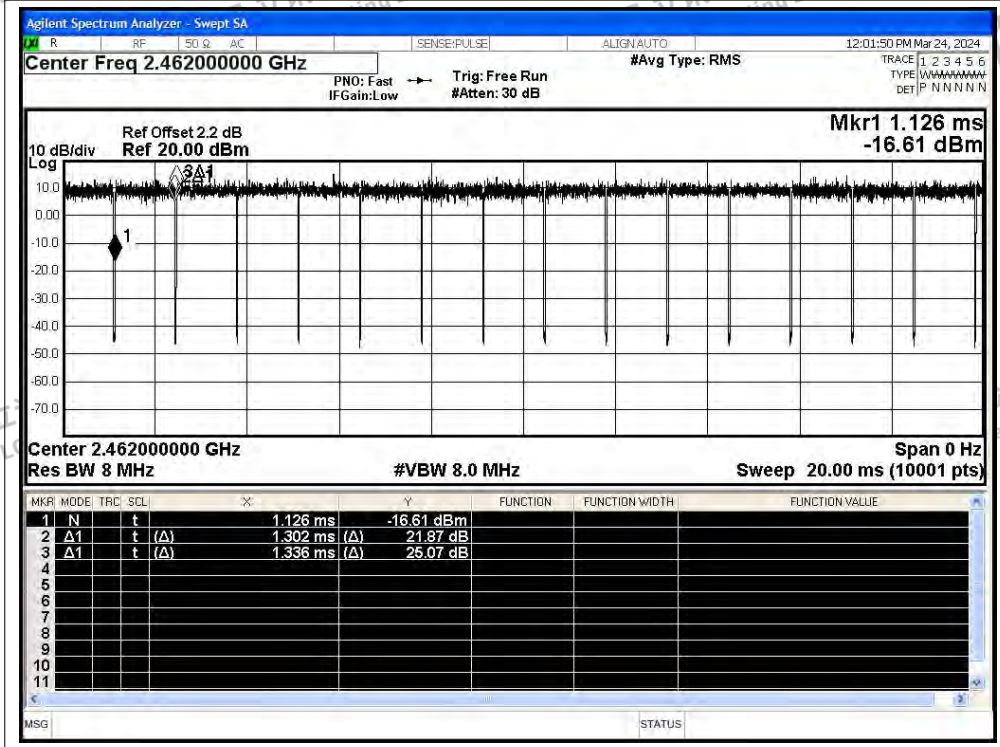
Duty Cycle NVNT n20 2437MHz Ant1







Duty Cycle NVNT n20 2462MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant2	99.67	0	0.12
NVNT	b	2437	Ant2	99.64	0	0.12
NVNT	b	2462	Ant2	99.67	0	0.12
NVNT	g	2412	Ant2	97.76	0.1	0.72
NVNT	g	2437	Ant2	97.76	0.1	0.72
NVNT	g	2462	Ant2	97.76	0.1	0.72
NVNT	n20	2412	Ant2	97.31	0.12	0.77
NVNT	n20	2437	Ant2	97.46	0.11	0.77
NVNT	n20	2462	Ant2	97.46	0.11	0.77

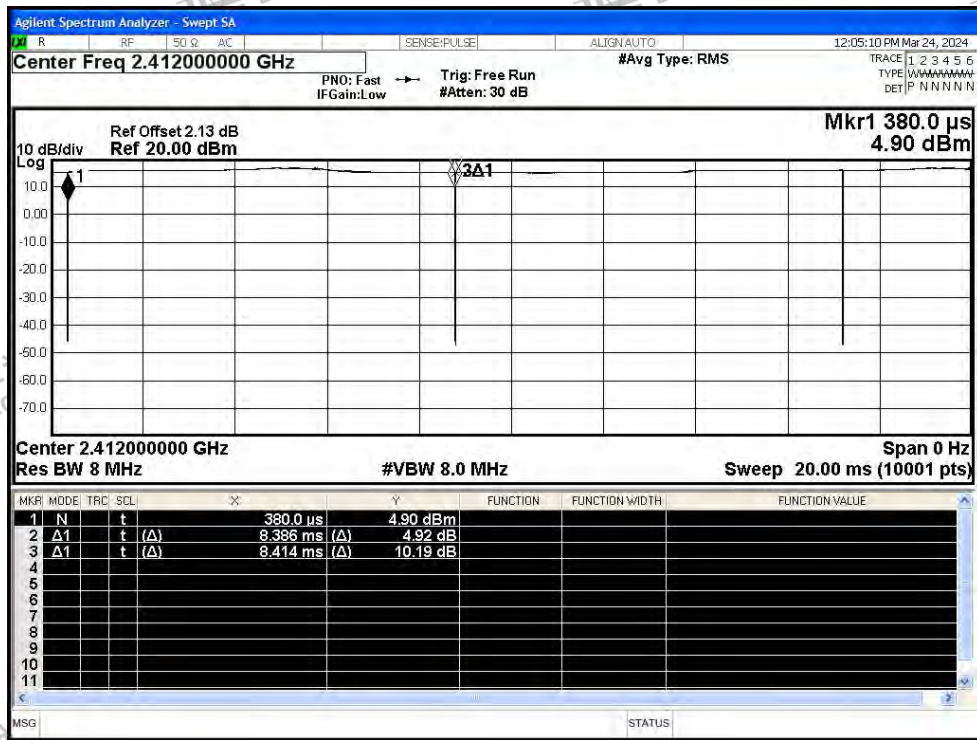


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 Scan code to check authenticity

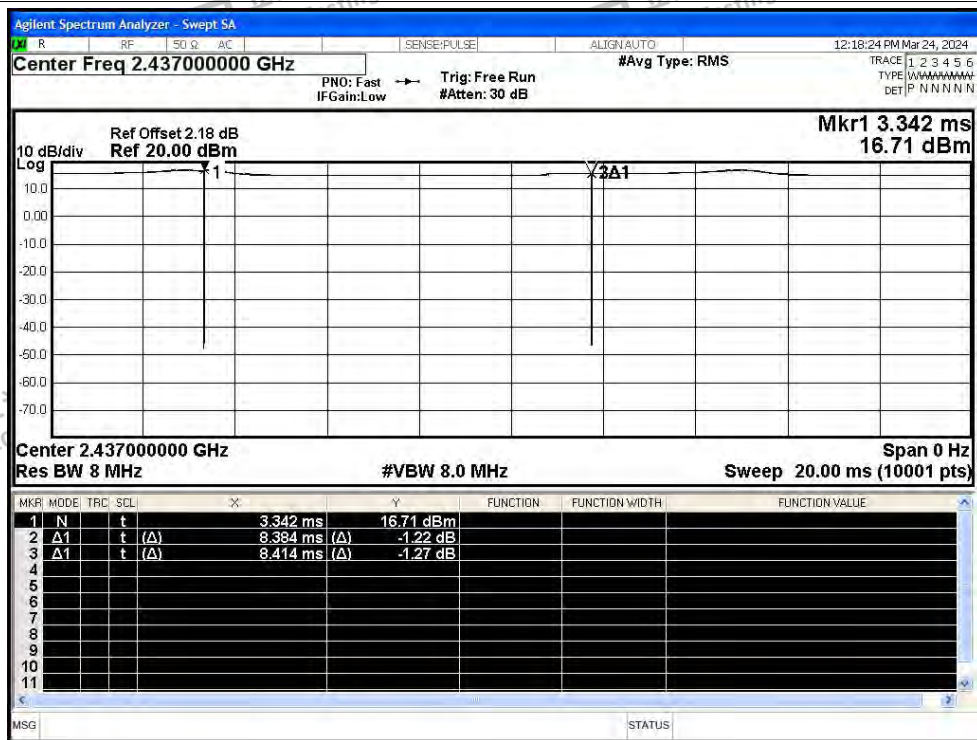


Test Graphs

Duty Cycle NVNT b 2412MHz Ant2

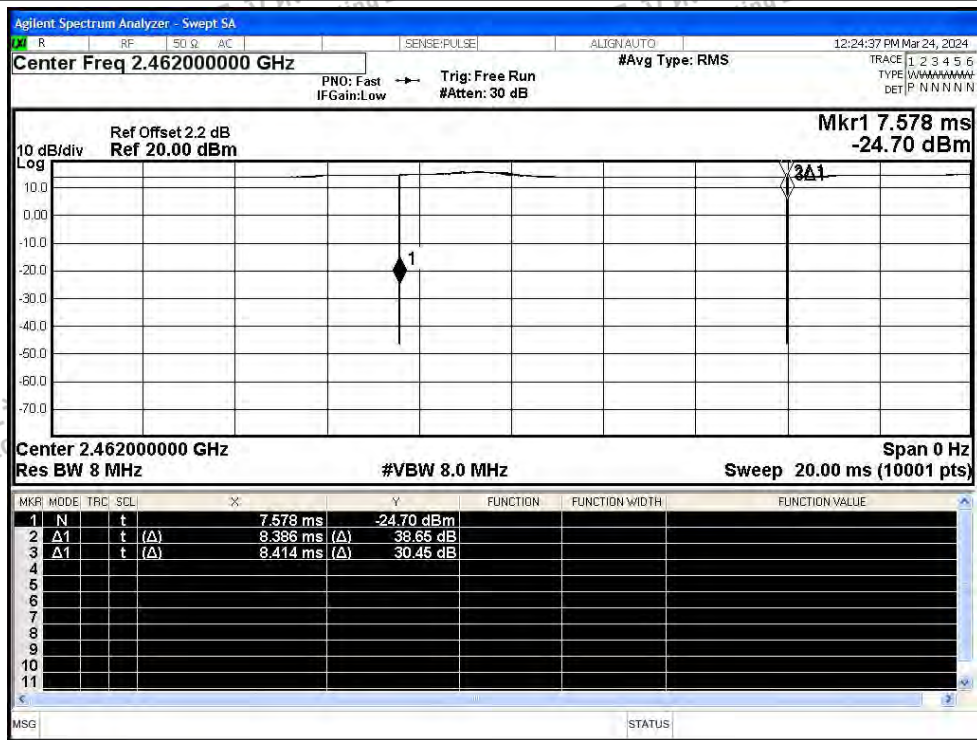


Duty Cycle NVNT b 2437MHz Ant2

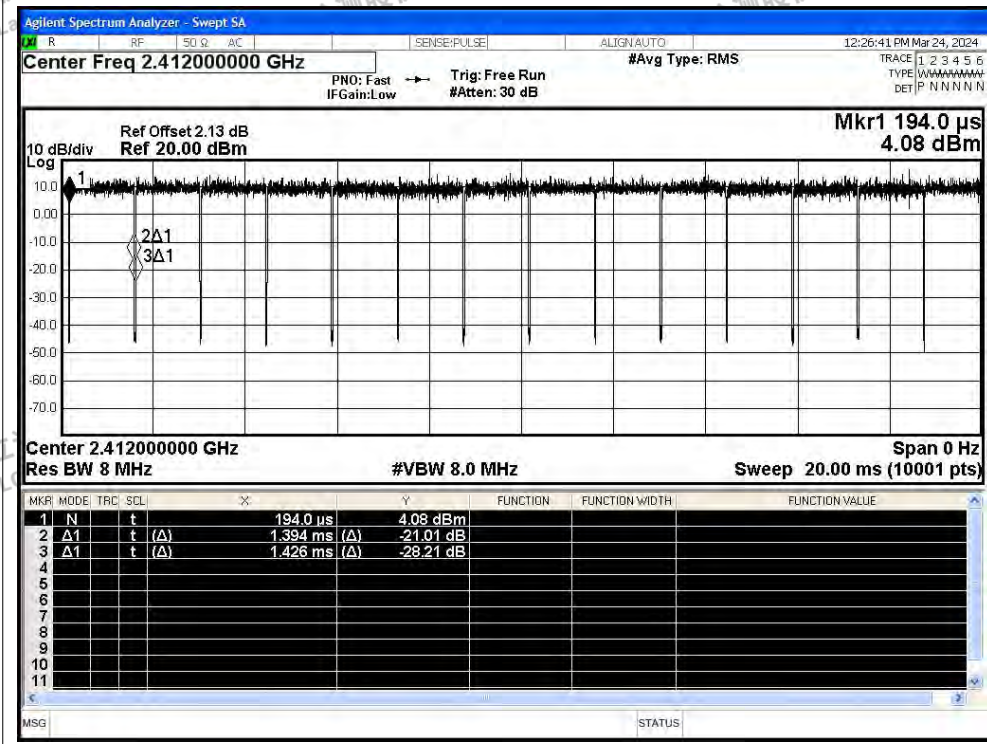




Duty Cycle NVNT b 2462MHz Ant2

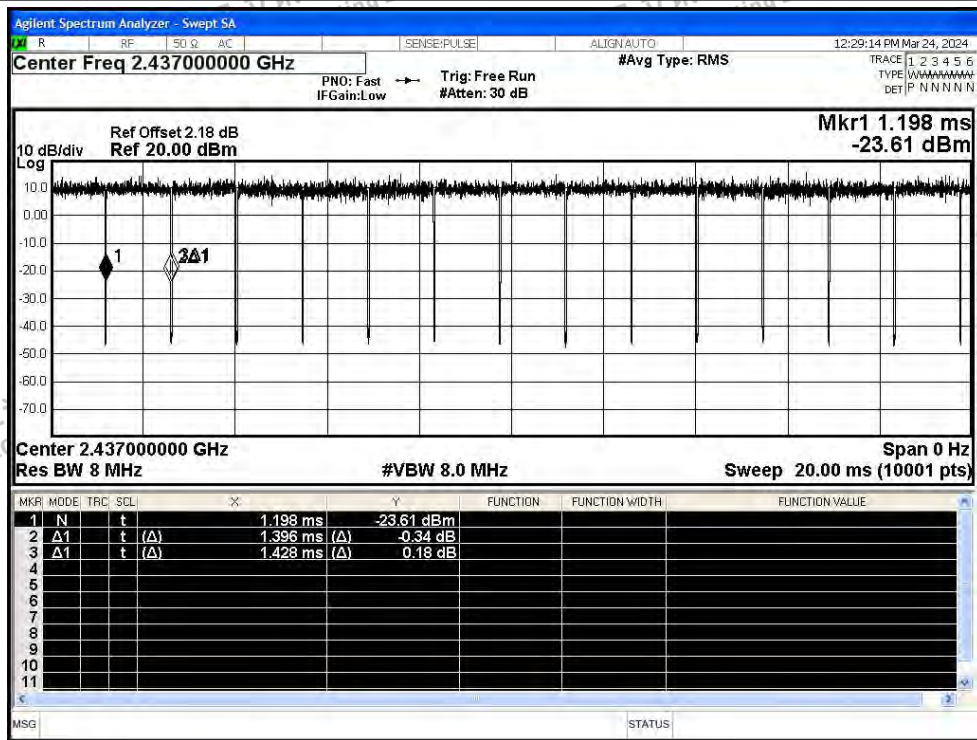


Duty Cycle NVNT g 2412MHz Ant2

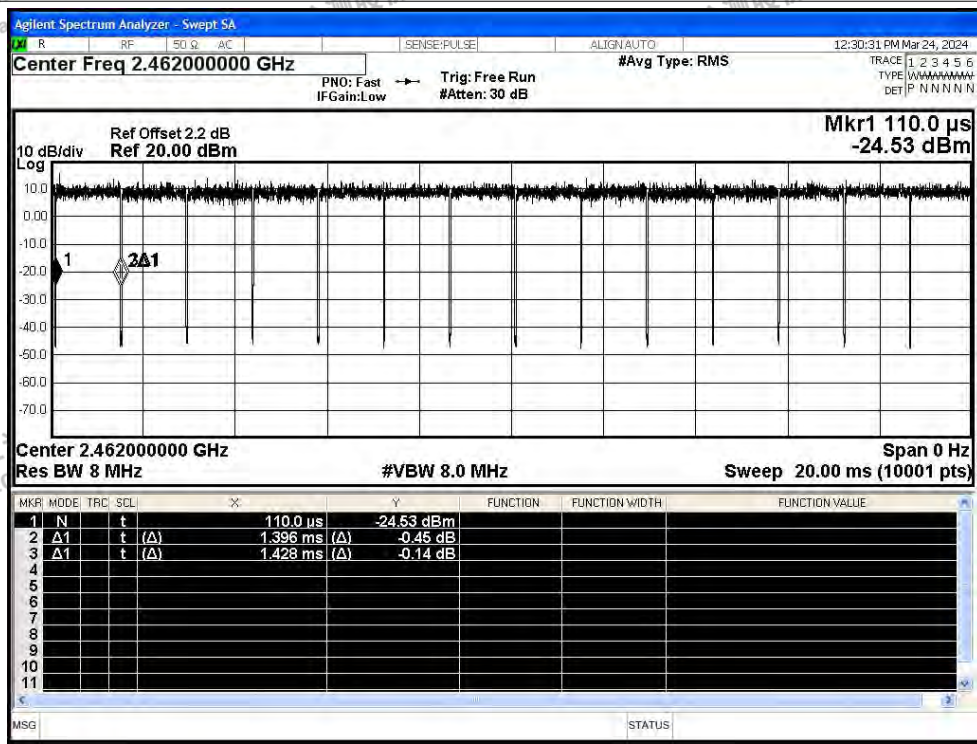




Duty Cycle NVNT g 2437MHz Ant2

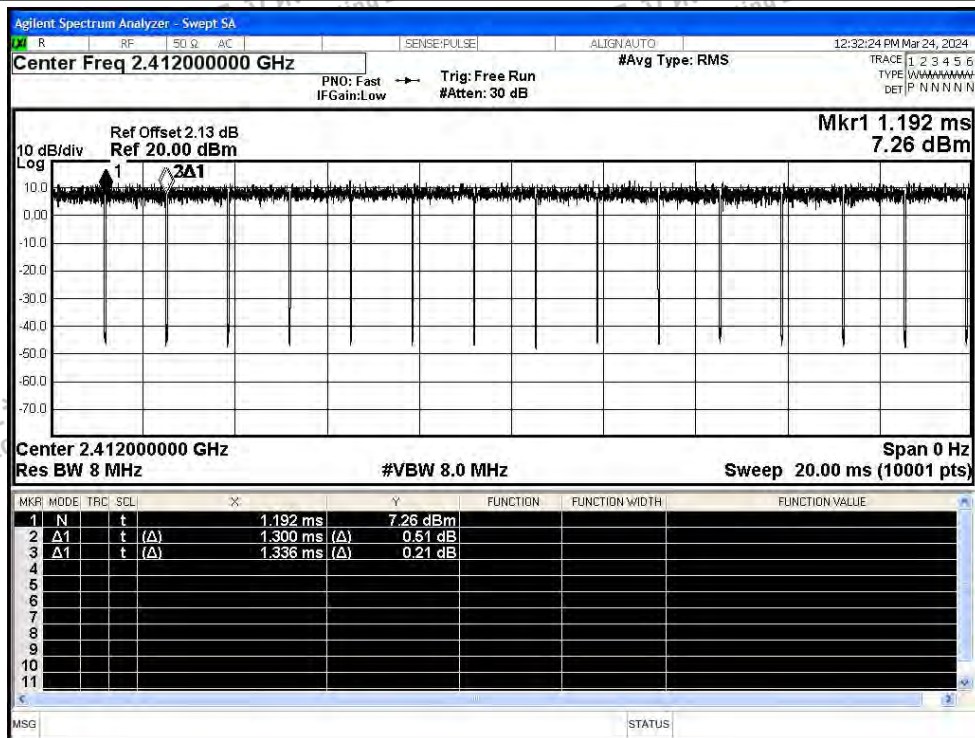


Duty Cycle NVNT g 2462MHz Ant2

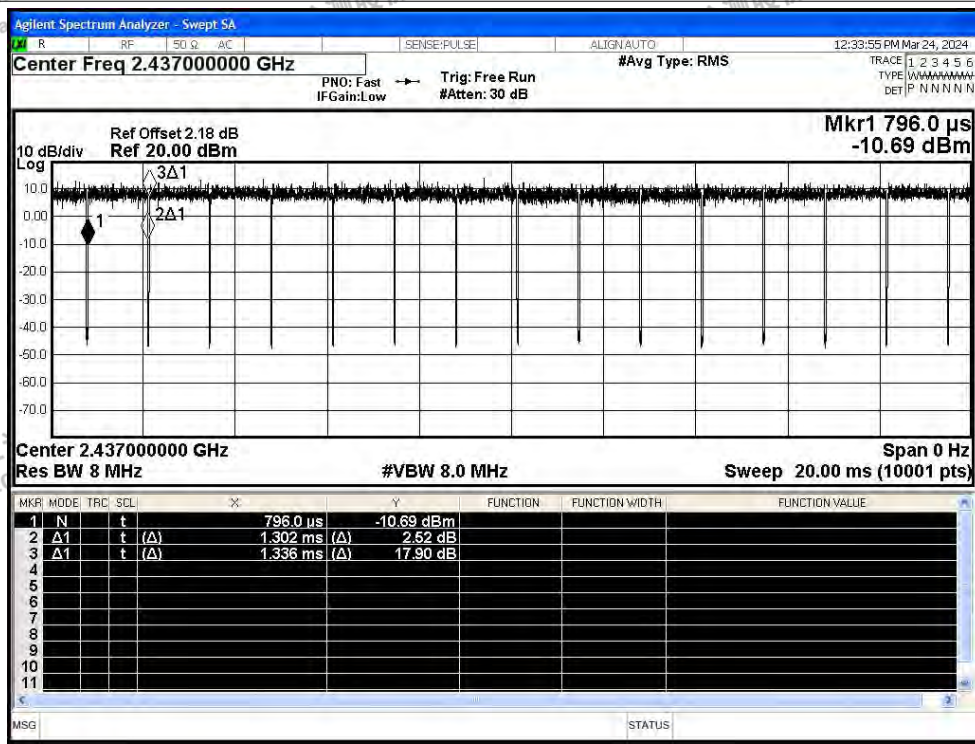




Duty Cycle NVNT n20 2412MHz Ant2

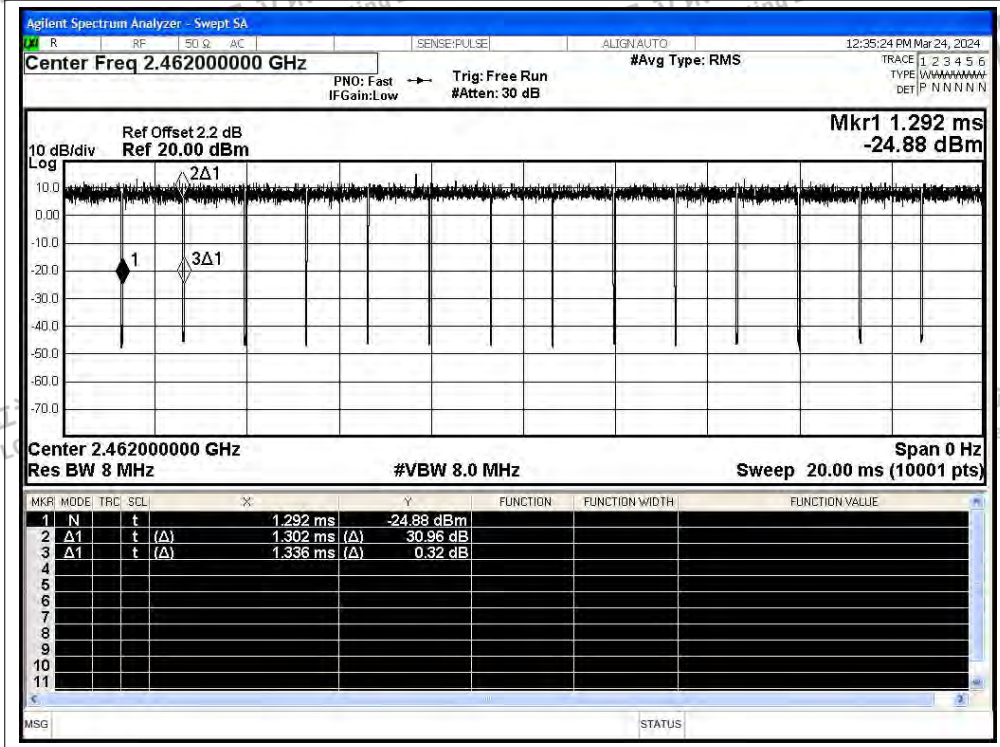


Duty Cycle NVNT n20 2437MHz Ant2





Duty Cycle NVNT n20 2462MHz Ant2





### C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
NVNT	b	2412	2310	-51.51	2.87	-	46.62	Peak	74	Pass
NVNT	b	2412	2310	-58.44	2.87	0	39.69	Average	54	Pass
NVNT	b	2412	2389.326	-45.39	2.87	-	52.74	Peak	74	Pass
NVNT	b	2412	2389.794	-54.47	2.87	0	43.66	Average	54	Pass
NVNT	b	2412	2390	-47.13	2.87	-	51.00	Peak	74	Pass
NVNT	b	2412	2390	-54.62	2.87	0	43.51	Average	54	Pass
NVNT	b	2462	2483.5	-47.2	2.87	-	50.93	Peak	74	Pass
NVNT	b	2462	2483.5	-56.39	2.87	0	41.74	Average	54	Pass
NVNT	b	2462	2486.856	-46.21	2.87	-	51.92	Peak	74	Pass
NVNT	b	2462	2483.623	-55.55	2.87	0	42.58	Average	54	Pass
NVNT	b	2462	2500	-49.76	2.87	-	48.37	Peak	74	Pass
NVNT	b	2462	2500	-57.6	2.87	0	40.53	Average	54	Pass
NVNT	g	2412	2310	-47.77	2.87	-	50.36	Peak	74	Pass
NVNT	g	2412	2310	-58.44	2.87	0.1	39.69	Average	54	Pass
NVNT	g	2412	2389.677	-41.22	2.87	-	56.91	Peak	74	Pass
NVNT	g	2412	2389.911	-51.91	2.87	0.1	46.22	Average	54	Pass
NVNT	g	2412	2390	-42.11	2.87	-	56.02	Peak	74	Pass
NVNT	g	2412	2390	-51.94	2.87	0.1	46.19	Average	54	Pass
NVNT	g	2462	2483.5	-36.67	2.87	-	61.46	Peak	74	Pass
NVNT	g	2462	2483.5	-50.06	2.87	0.1	48.07	Average	54	Pass
NVNT	g	2462	2483.517	-36.67	2.87	-	61.46	Peak	74	Pass
NVNT	g	2462	2483.676	-49.6	2.87	0.1	48.53	Average	54	Pass
NVNT	g	2462	2500	-46.55	2.87	-	51.58	Peak	74	Pass
NVNT	g	2462	2500	-54.53	2.87	0.1	43.60	Average	54	Pass
NVNT	n20mimo	2412	2310	-50.4	5.88	-	50.74	Peak	74	Pass
NVNT	n20mimo	2412	2310	-58.24	5.88	0.11	42.90	Average	54	Pass
NVNT	n20mimo	2412	2389.794	-38.02	5.88	-	63.12	Peak	74	Pass
NVNT	n20mimo	2412	2389.794	-51.84	5.88	0.11	49.30	Average	54	Pass
NVNT	n20mimo	2412	2390	-42	5.88	-	59.14	Peak	74	Pass
NVNT	n20mimo	2412	2390	-51.98	5.88	0.11	49.16	Average	54	Pass
NVNT	n20mimo	2462	2483.5	-38.26	5.88	-	62.88	Peak	74	Pass
NVNT	n20mimo	2462	2483.5	-49.5	5.88	0.11	51.64	Average	54	Pass
NVNT	n20mimo	2462	2484.577	-33.12	5.88	-	68.02	Peak	74	Pass
NVNT	n20mimo	2462	2483.517	-49.5	5.88	0.11	51.64	Average	54	Pass
NVNT	n20mimo	2462	2500	-48	5.88	-	53.14	Peak	74	Pass
NVNT	n20mimo	2462	2500	-55.82	5.88	0.11	45.32	Average	54	Pass

Note: 802.11b and 802.11g mode, only show the worst set of antenna1 data.



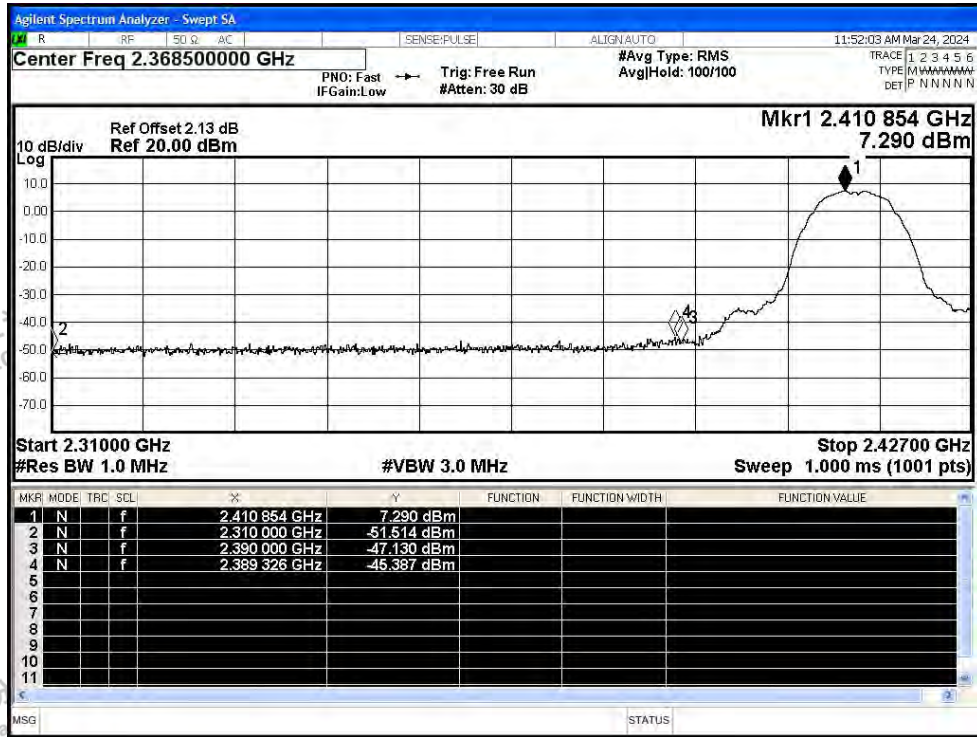
Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



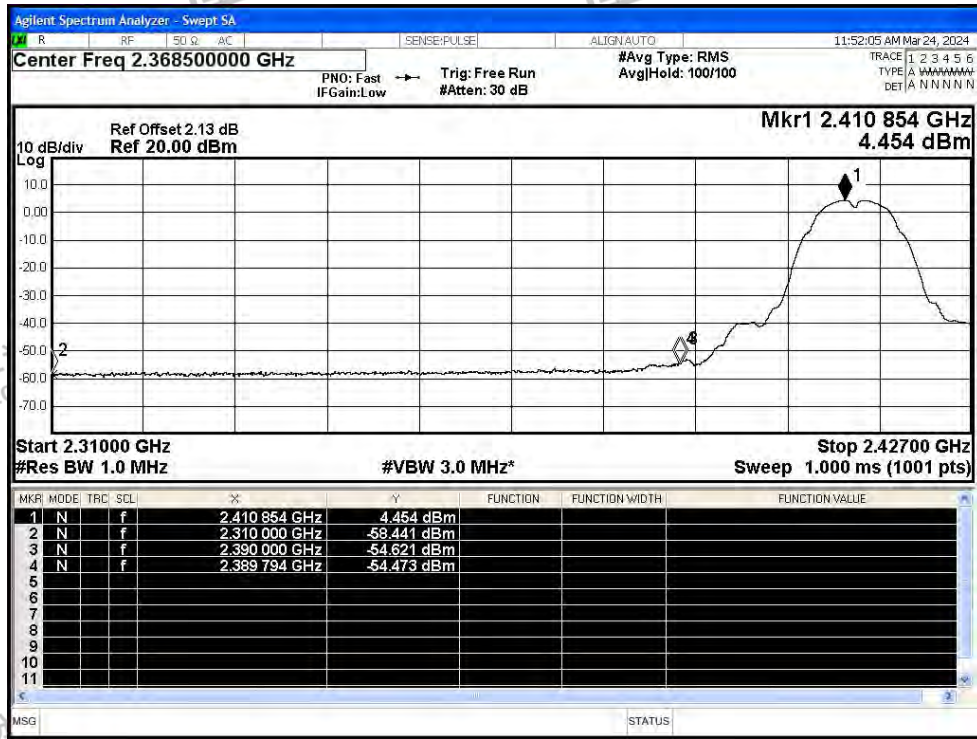


Test Graphs

Restrict Band NVNT b 2412MHz Peak

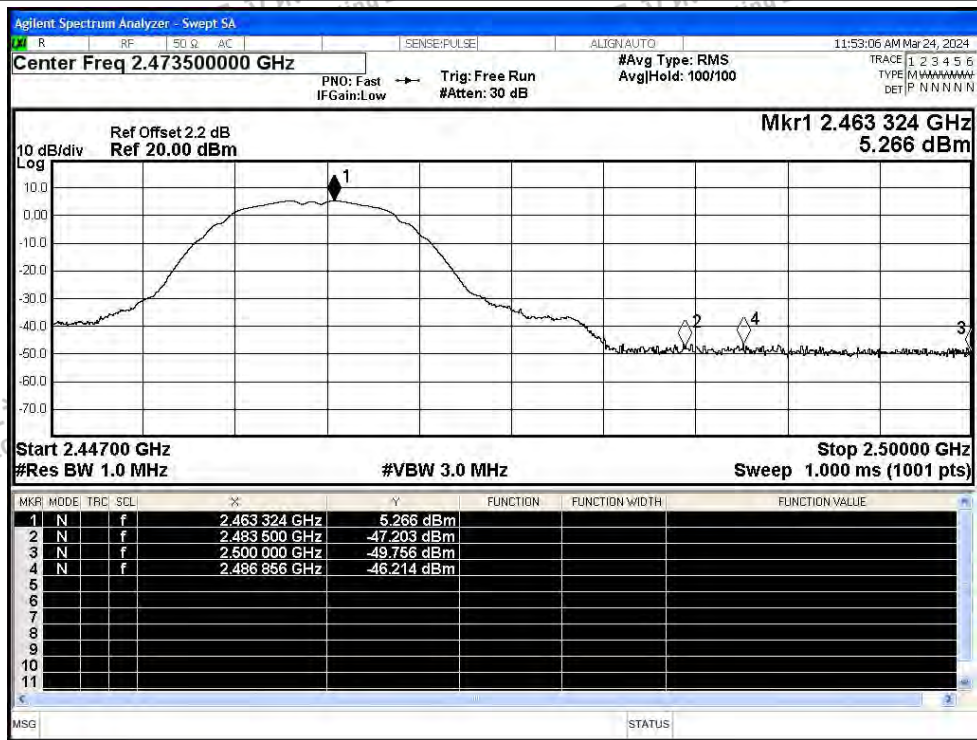


Restrict Band NVNT b 2412MHz Average

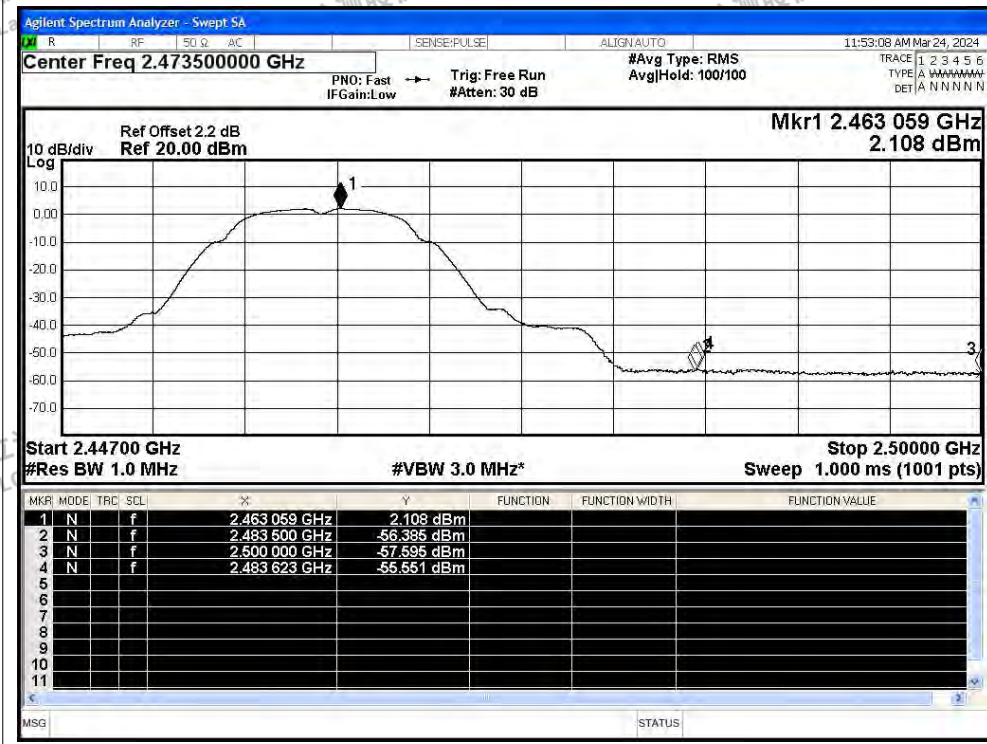




Restrict Band NVNT b 2462MHz Peak

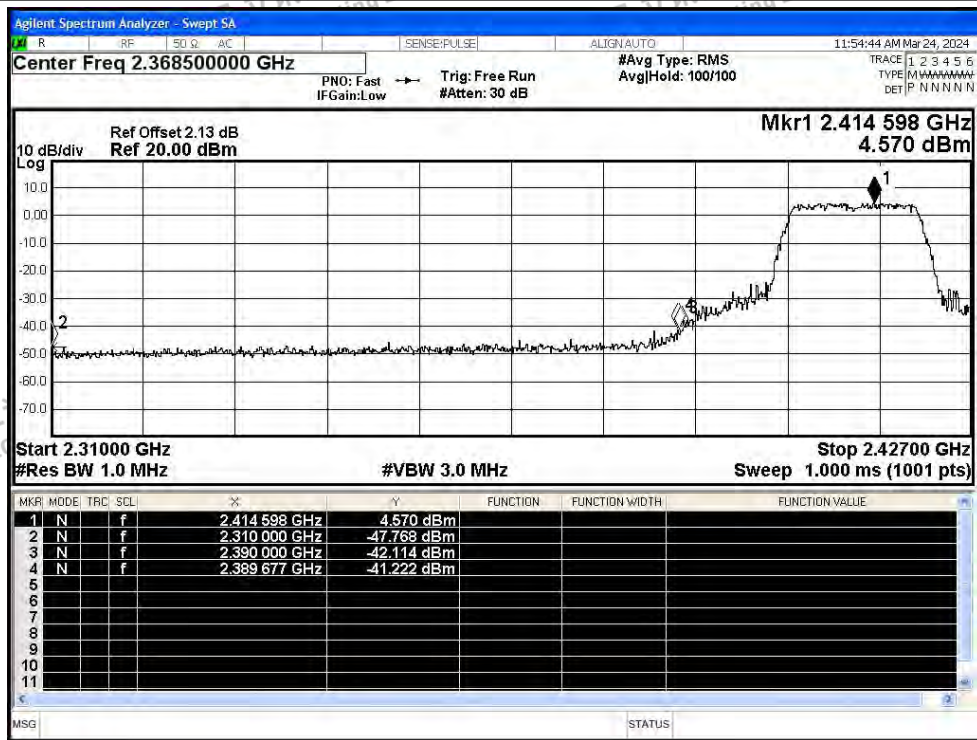


Restrict Band NVNT b 2462MHz Average

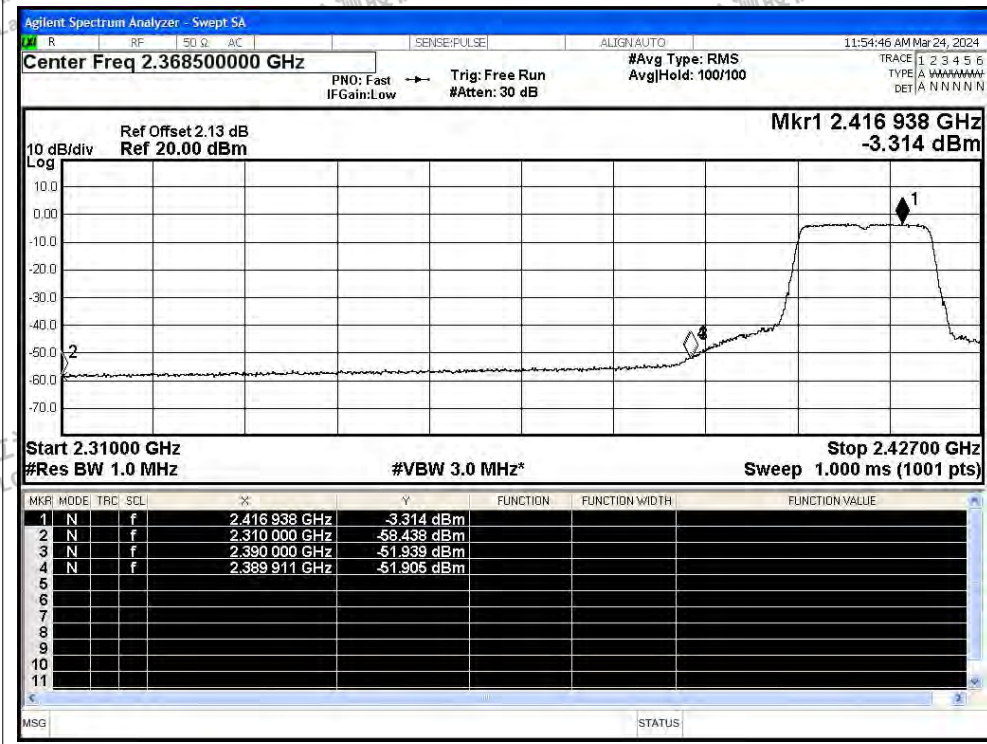




Restrict Band NVNT g 2412MHz Peak

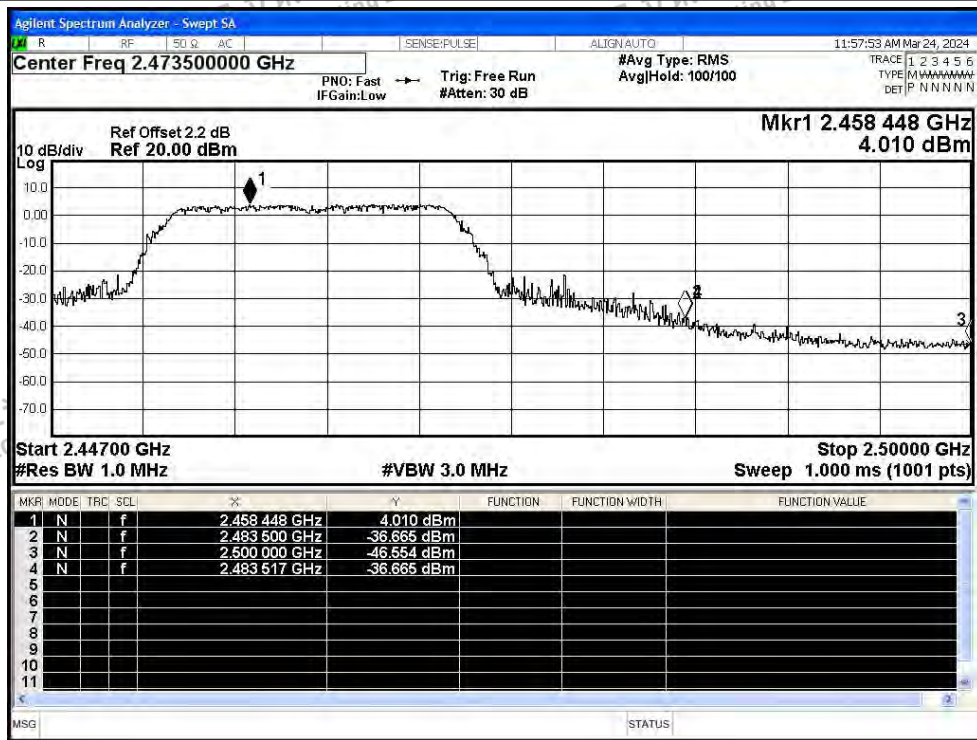


Restrict Band NVNT g 2412MHz Average

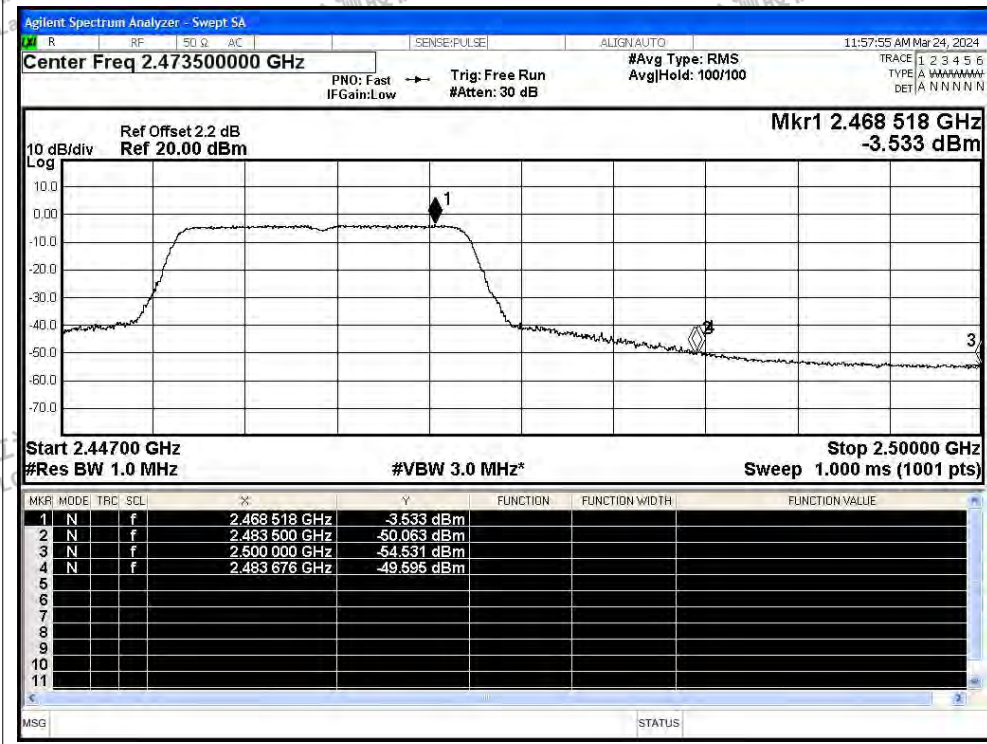




Restrict Band NVNT g 2462MHz Peak

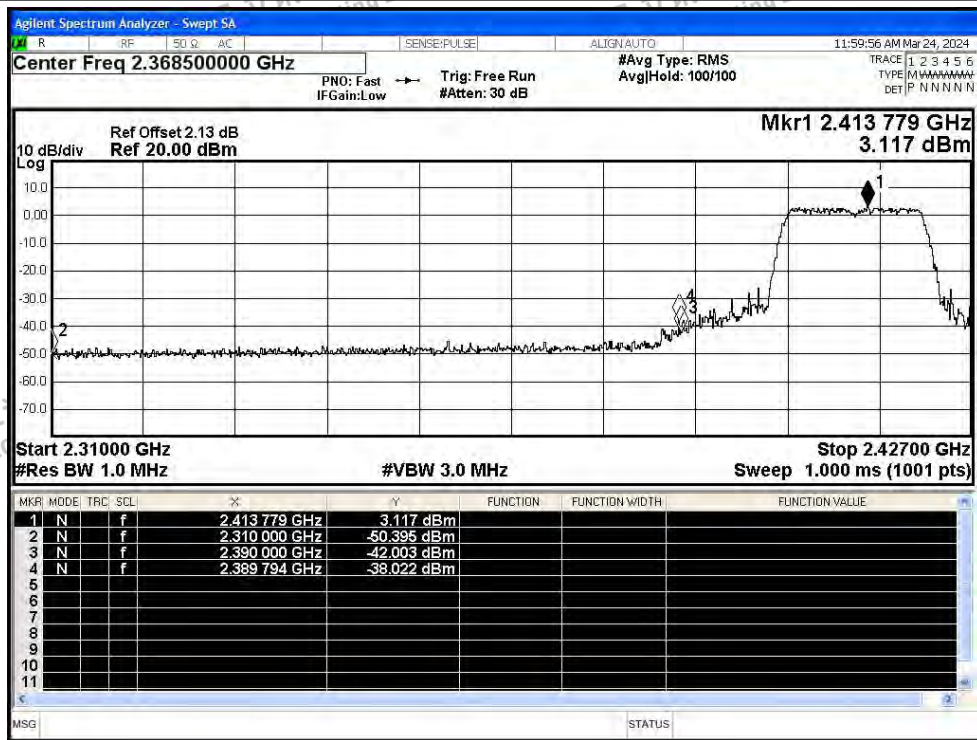


Restrict Band NVNT g 2462MHz Average

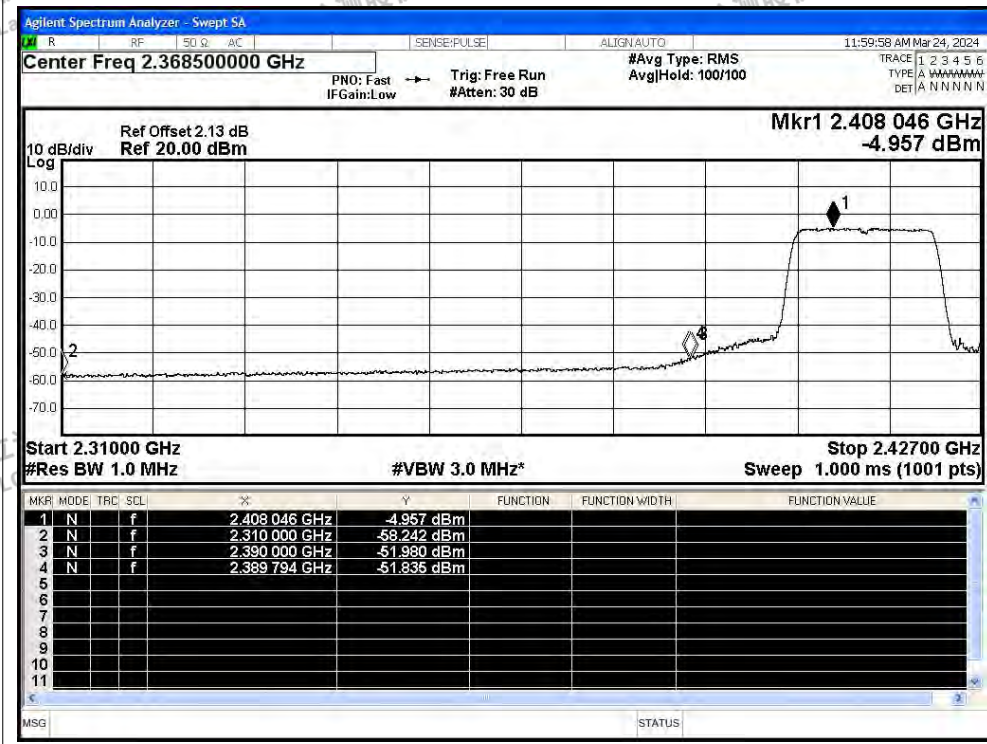




Restrict Band NVNT n20 2412MHz Peak

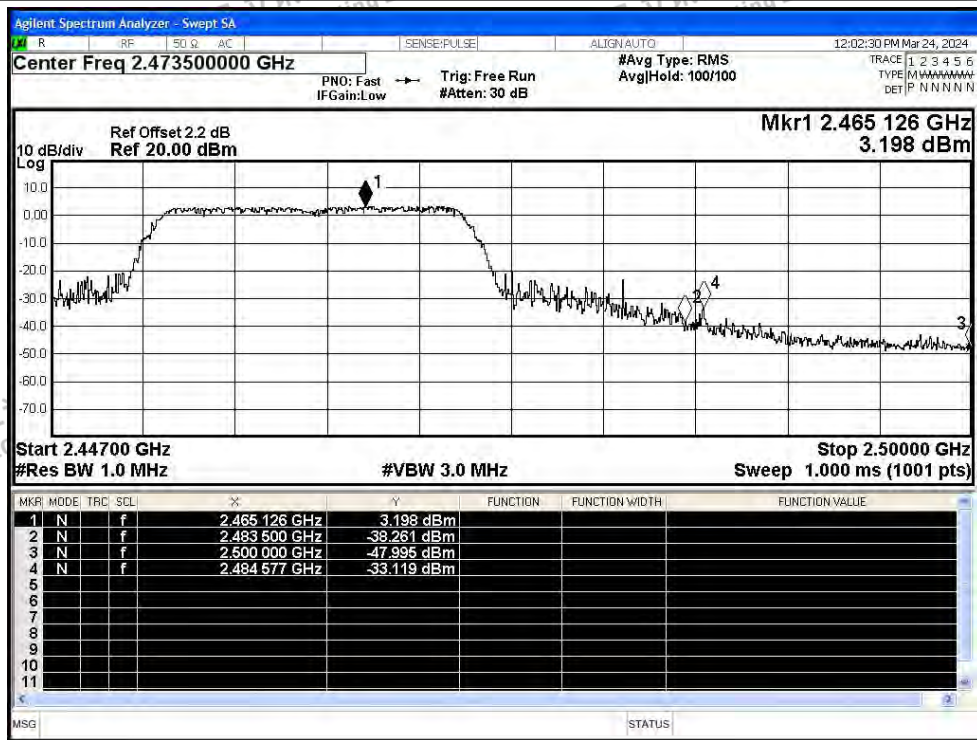


Restrict Band NVNT n20 2412MHz Average





Restrict Band NVNT n20 2462MHz Peak



Restrict Band NVNT n20 2462MHz Average

