



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: GNSS Receiver

Test Model: S6 Plus

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.973	/	Pass
NVNT	1-DH5	2441	Ant1	1.013	/	Pass
NVNT	1-DH5	2480	Ant1	1.013	/	Pass
NVNT	2-DH5	2402	Ant1	1.312	/	Pass
NVNT	2-DH5	2441	Ant1	1.285	/	Pass
NVNT	2-DH5	2480	Ant1	1.285	/	Pass
NVNT	3-DH5	2402	Ant1	1.269	/	Pass
NVNT	3-DH5	2441	Ant1	1.28	/	Pass
NVNT	3-DH5	2480	Ant1	1.283	/	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

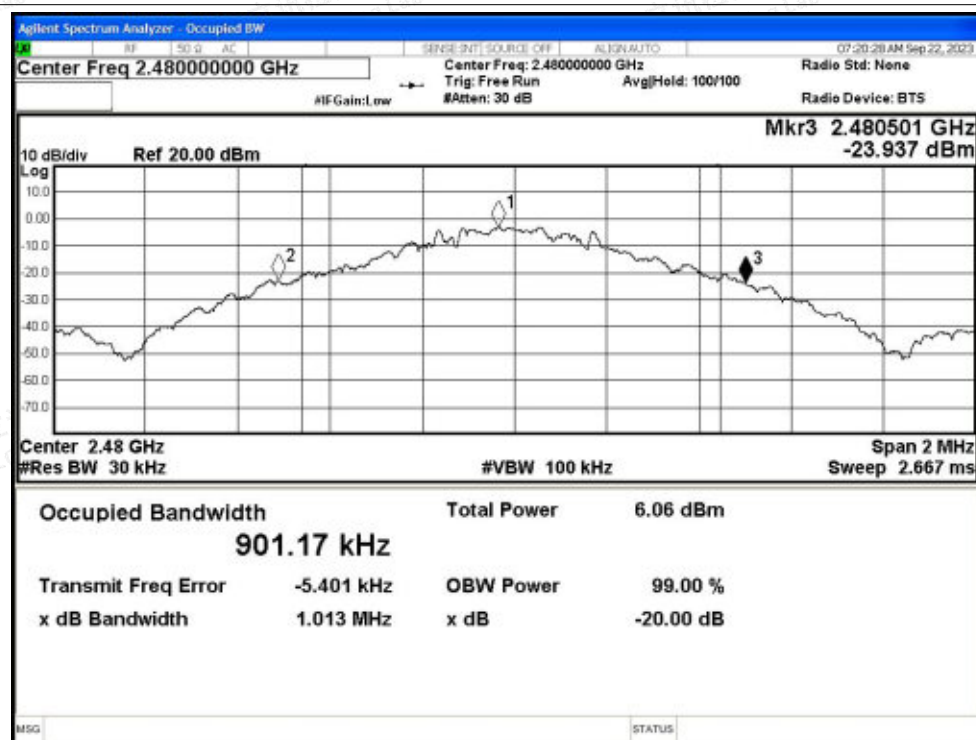


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

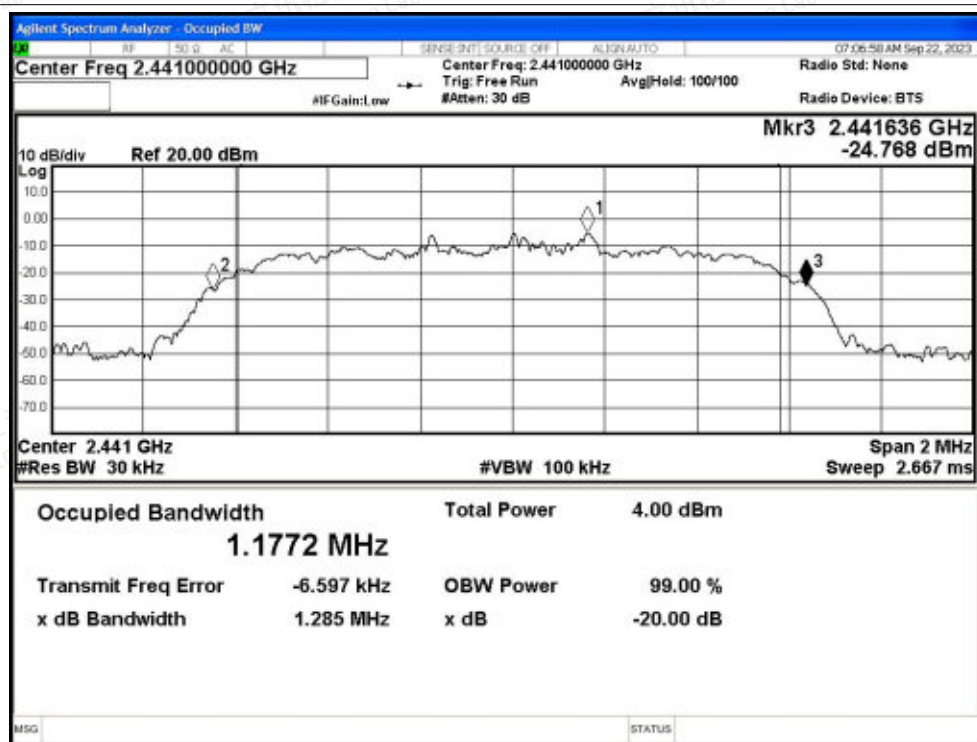


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

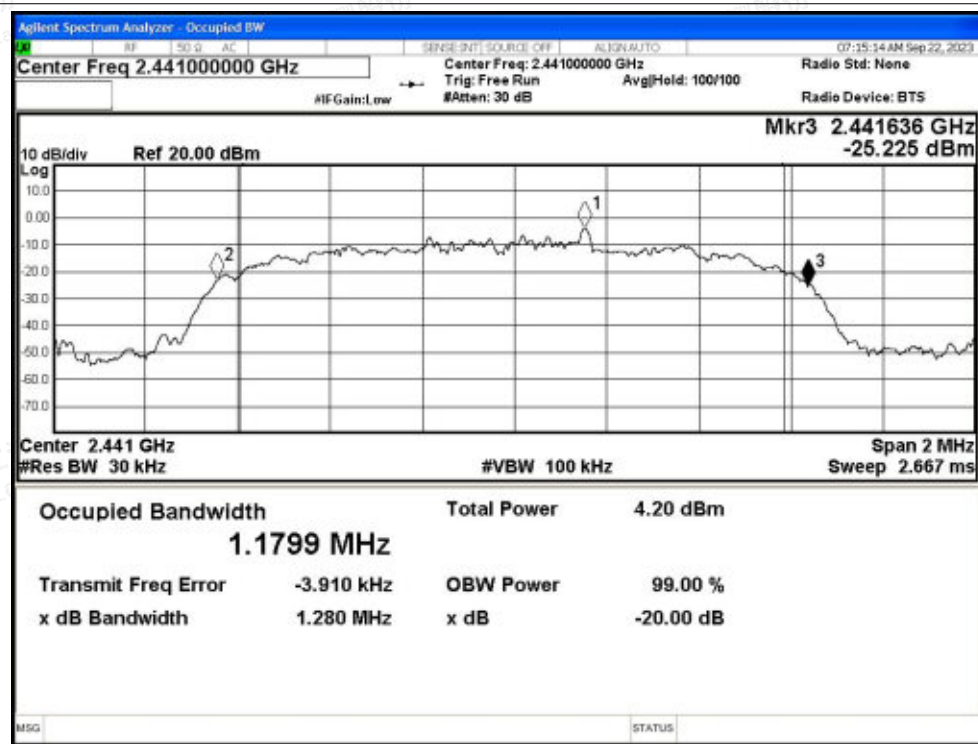




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

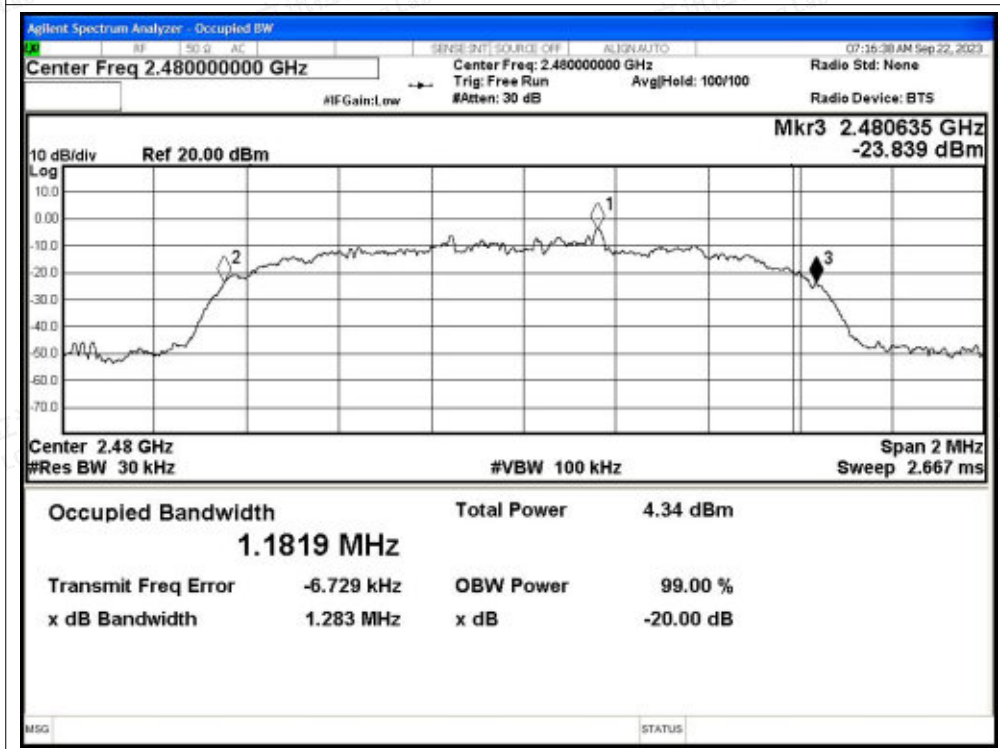


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

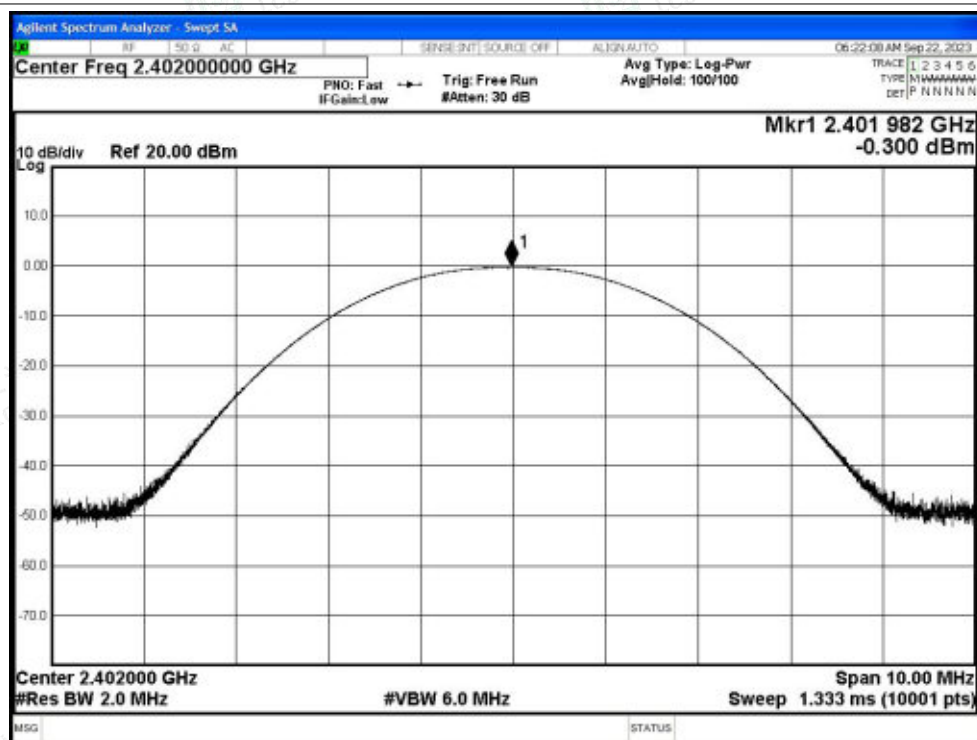
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.3	21	Pass
NVNT	1-DH5	2441	Ant1	-0.04	21	Pass
NVNT	1-DH5	2480	Ant1	0.05	21	Pass
NVNT	2-DH5	2402	Ant1	-0.57	21	Pass
NVNT	2-DH5	2441	Ant1	-0.67	21	Pass
NVNT	2-DH5	2480	Ant1	-0.27	21	Pass
NVNT	3-DH5	2402	Ant1	-0.51	21	Pass
NVNT	3-DH5	2441	Ant1	-0.2	21	Pass
NVNT	3-DH5	2480	Ant1	-0.1	21	Pass



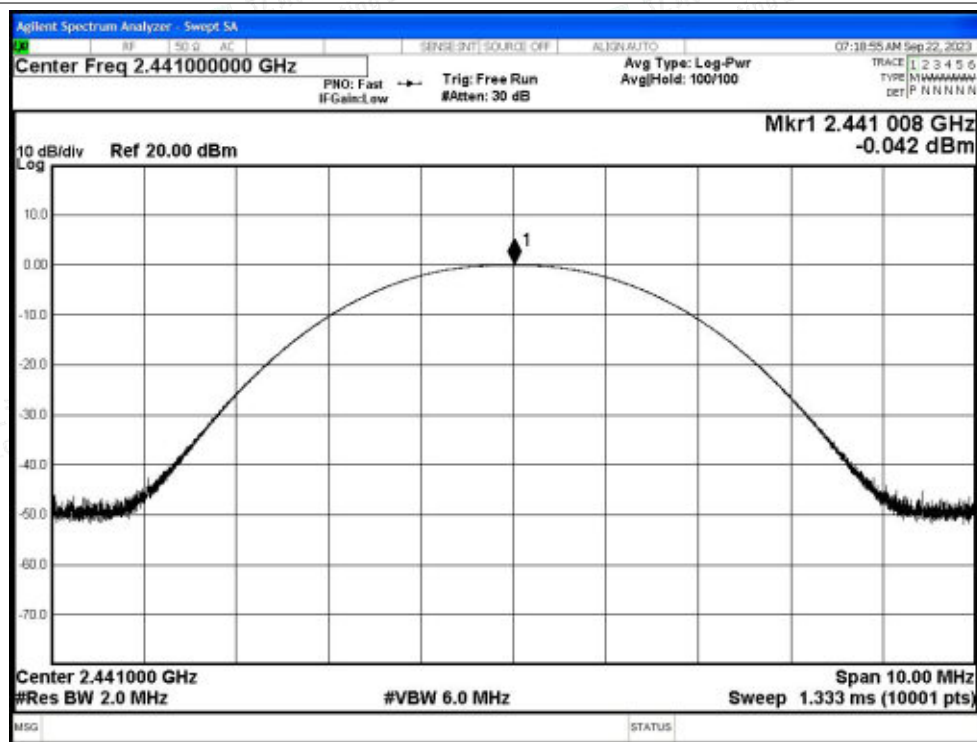


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

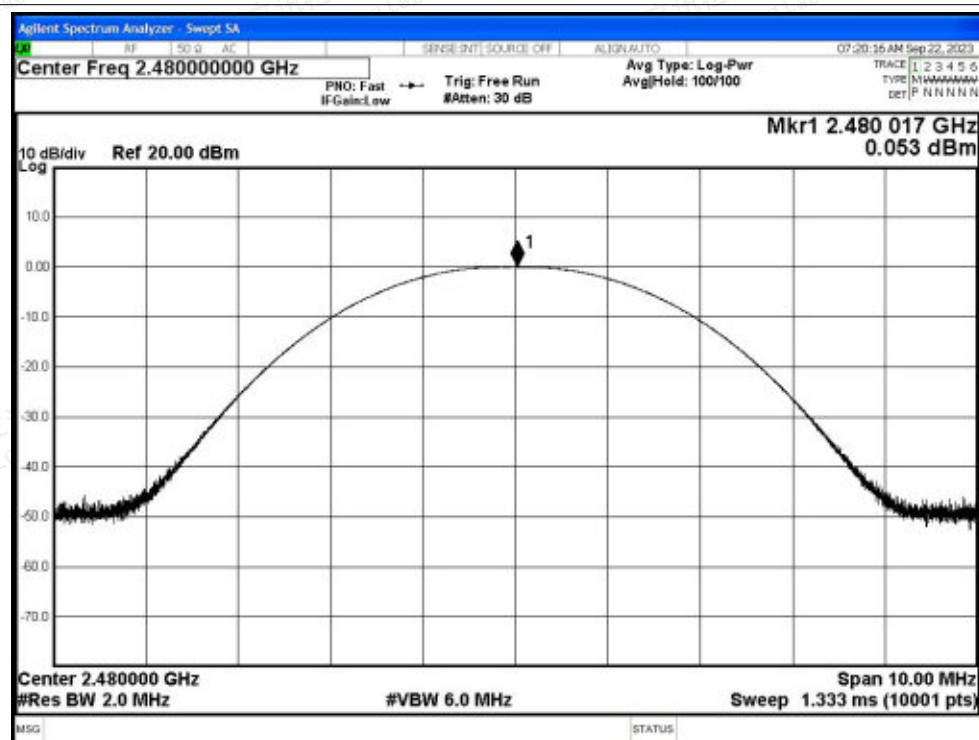


Power NVNT 1-DH5 2441MHz Ant1

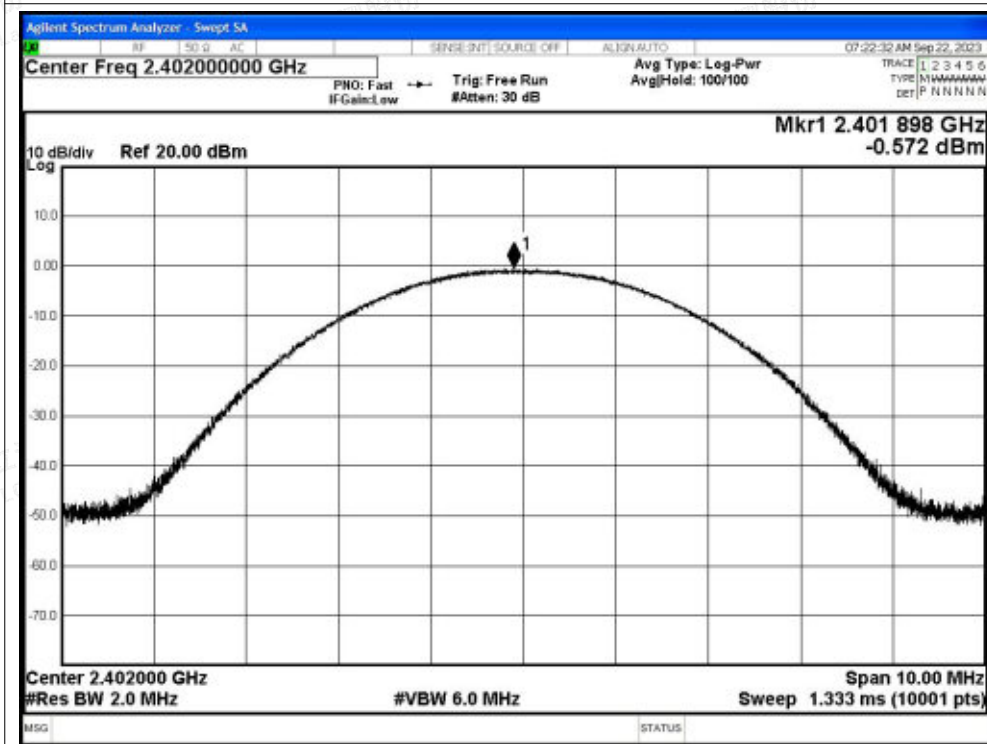




Power NVNT 1-DH5 2480MHz Ant1

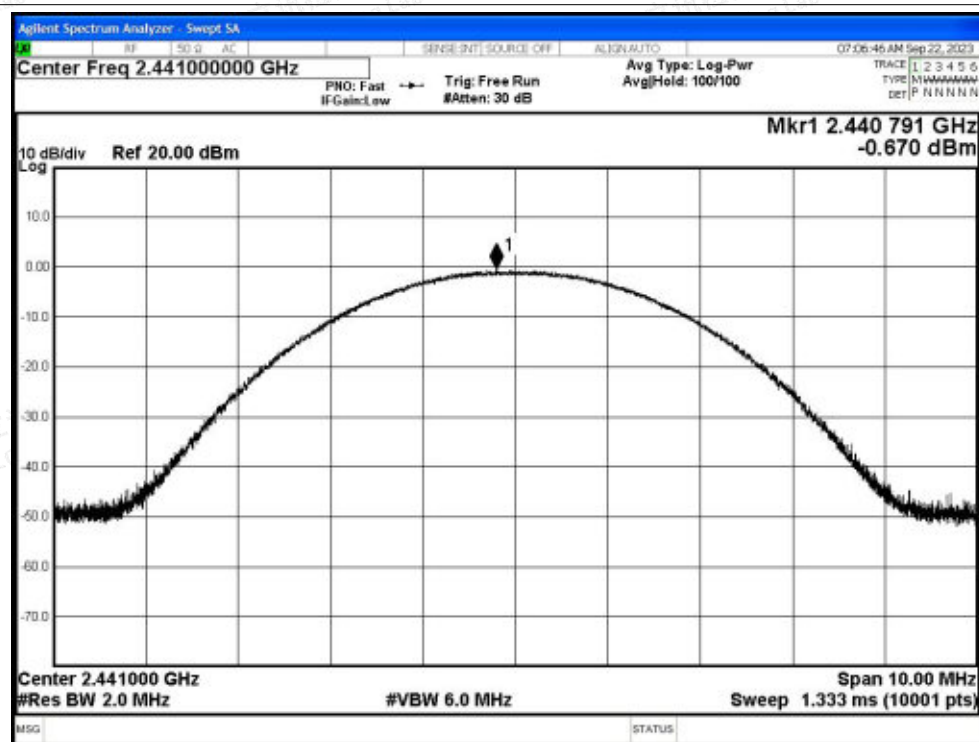


Power NVNT 2-DH5 2402MHz Ant1

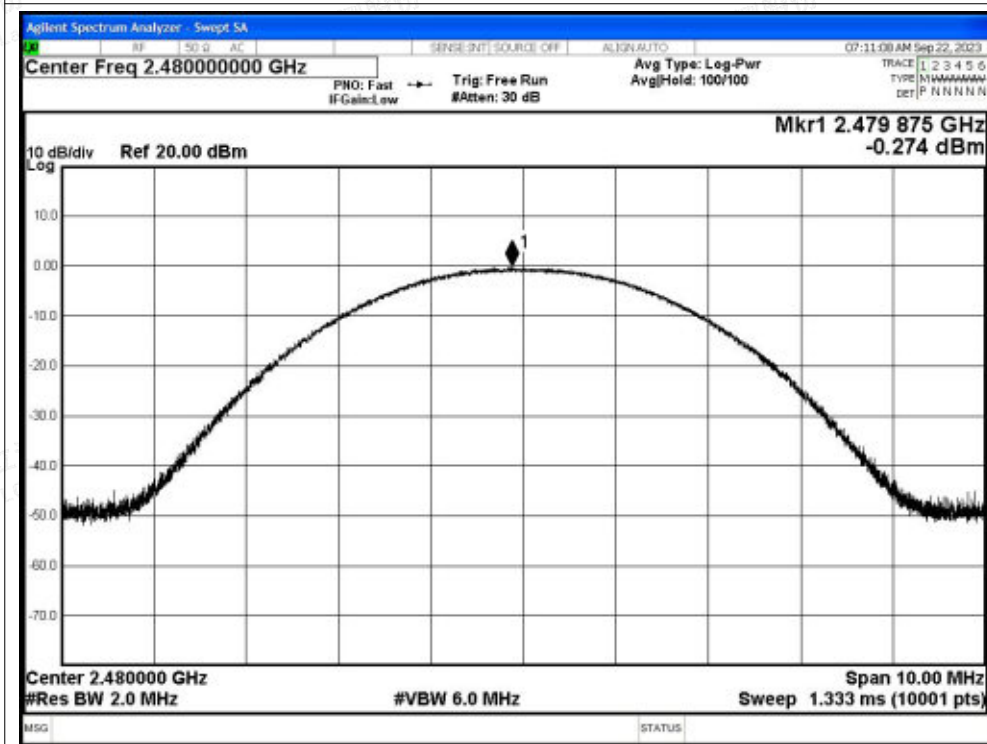




Power NVNT 2-DH5 2441MHz Ant1

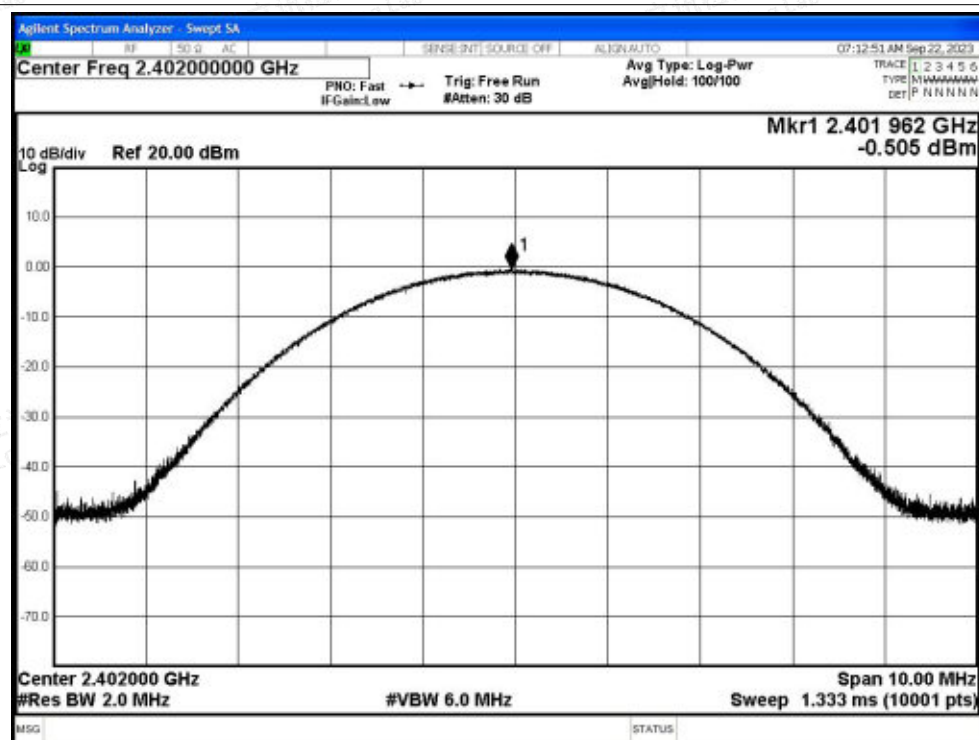


Power NVNT 2-DH5 2480MHz Ant1

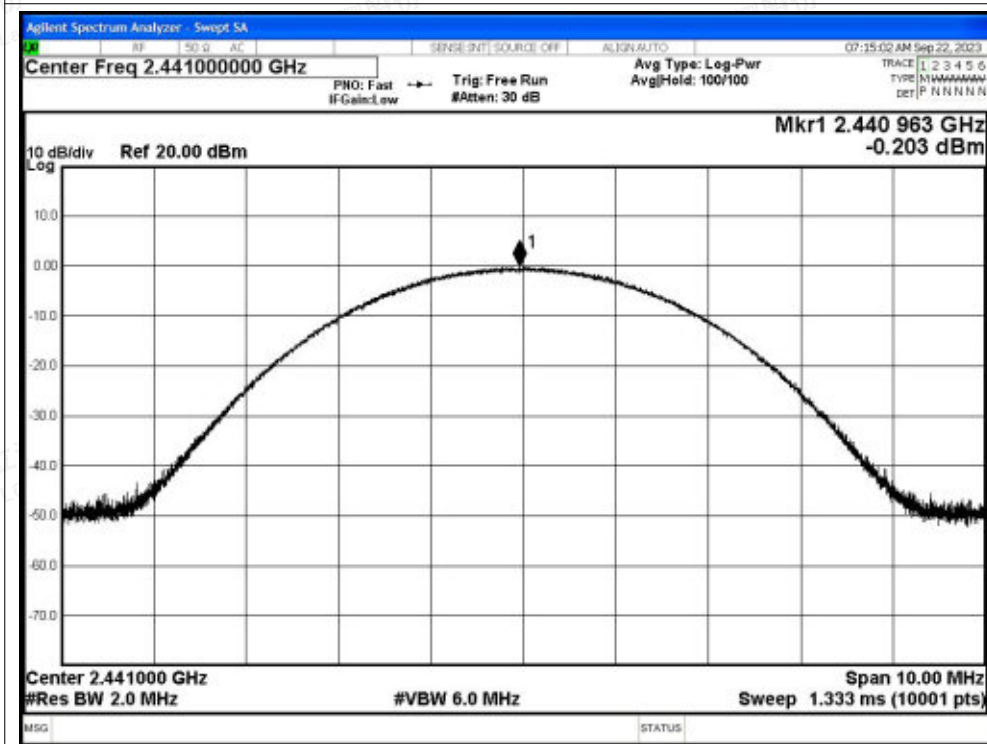




Power NVNT 3-DH5 2402MHz Ant1

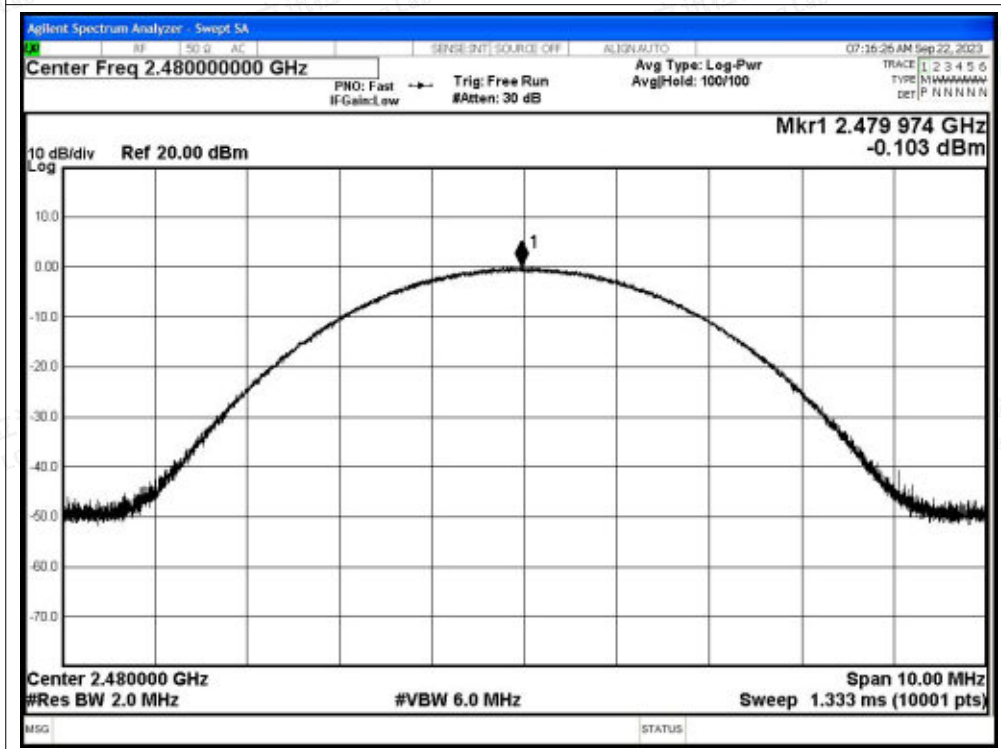


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

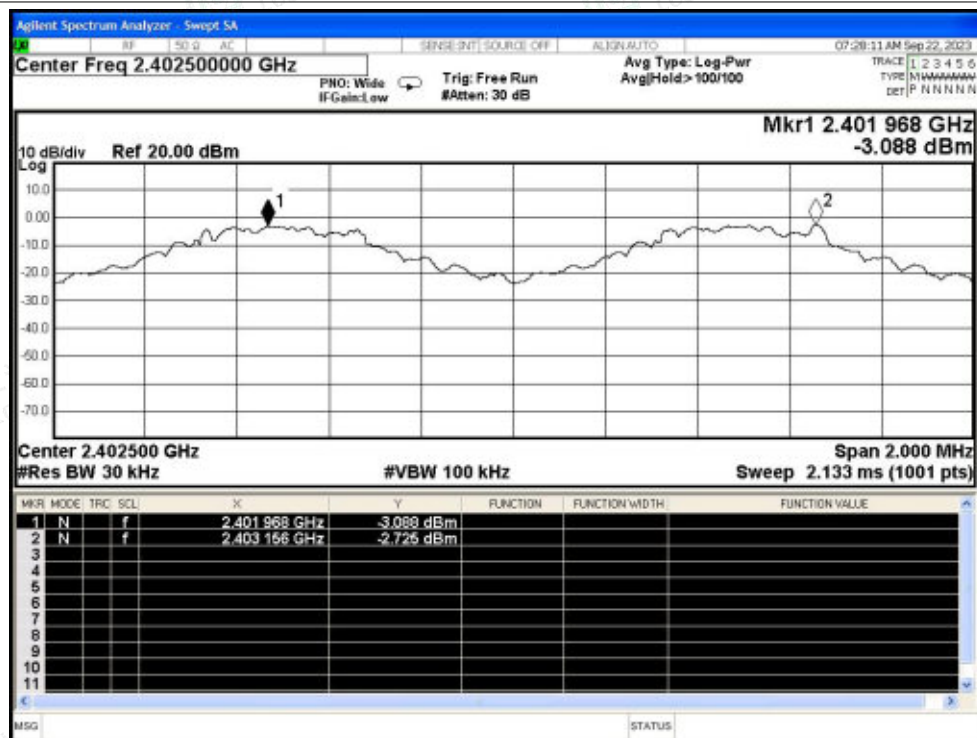
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.968	2403.156	1.188	0.675	Pass
NVNT	2-DH5	Ant1	2402.156	2403.16	1.004	0.875	Pass
NVNT	3-DH5	Ant1	2402.154	2403.168	1.014	0.855	Pass



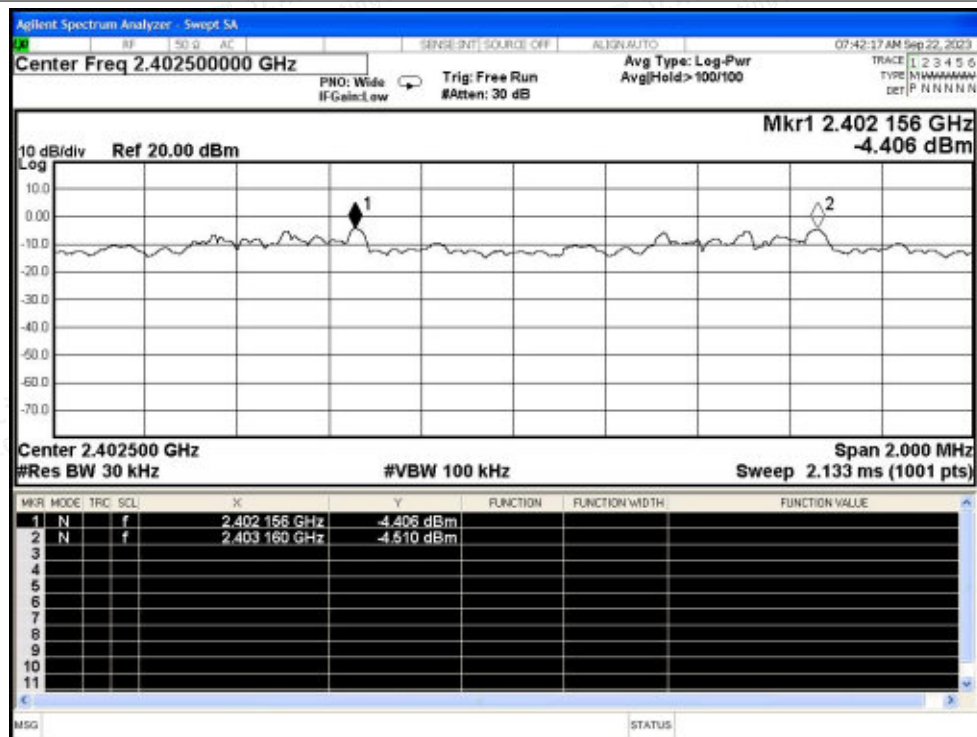


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

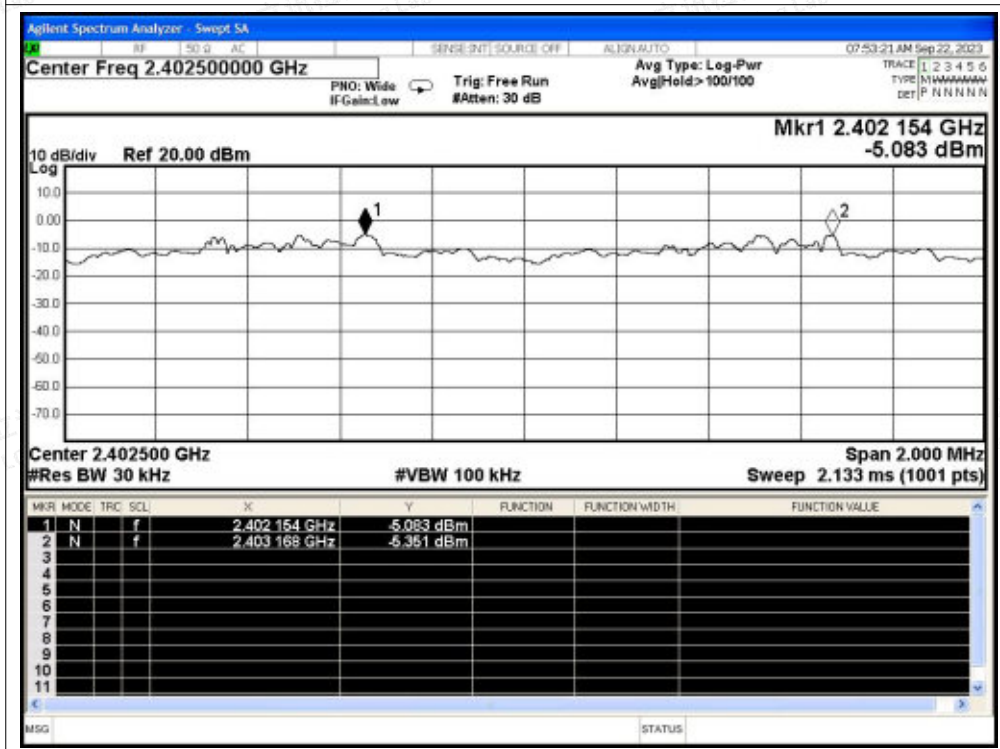


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1





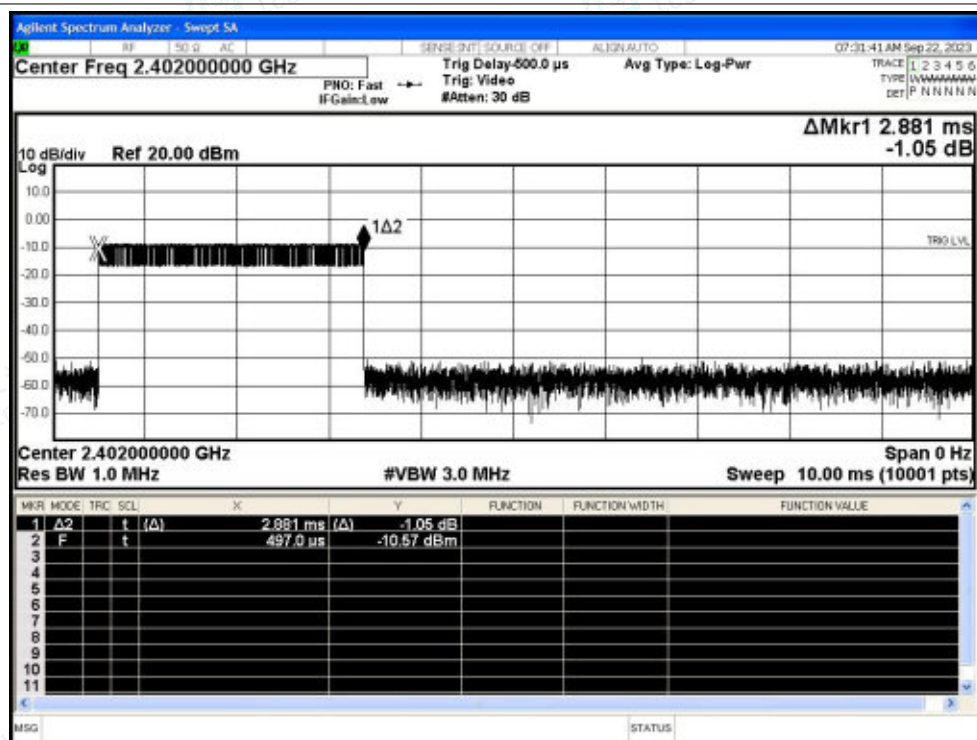
A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	296.743	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	296.64	103	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	294.474	102	31600	400	Pass

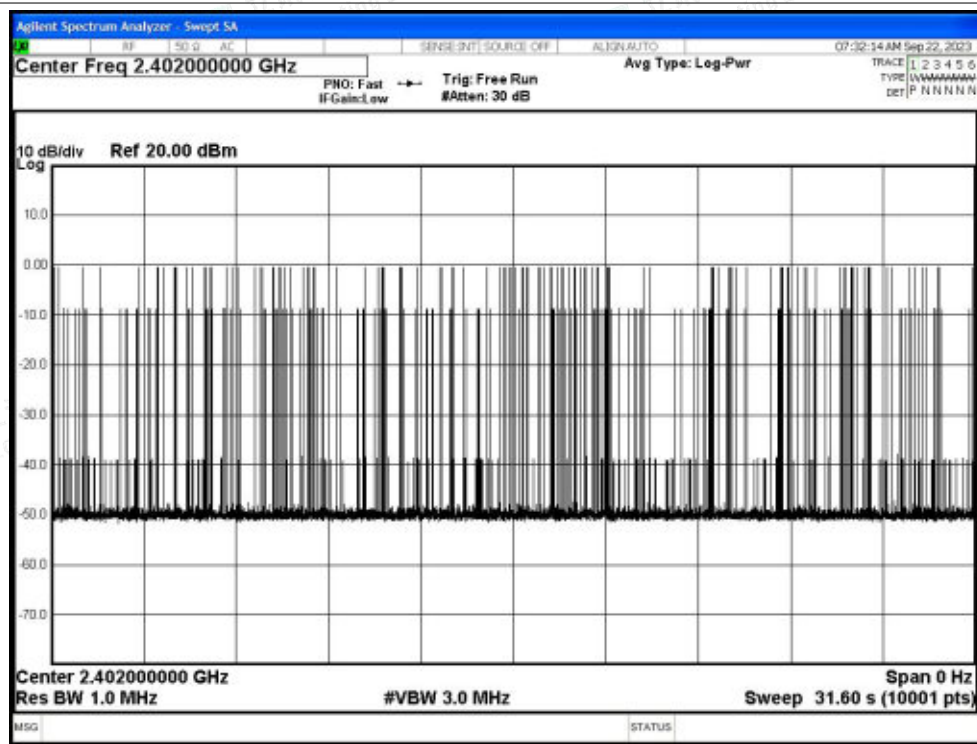


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



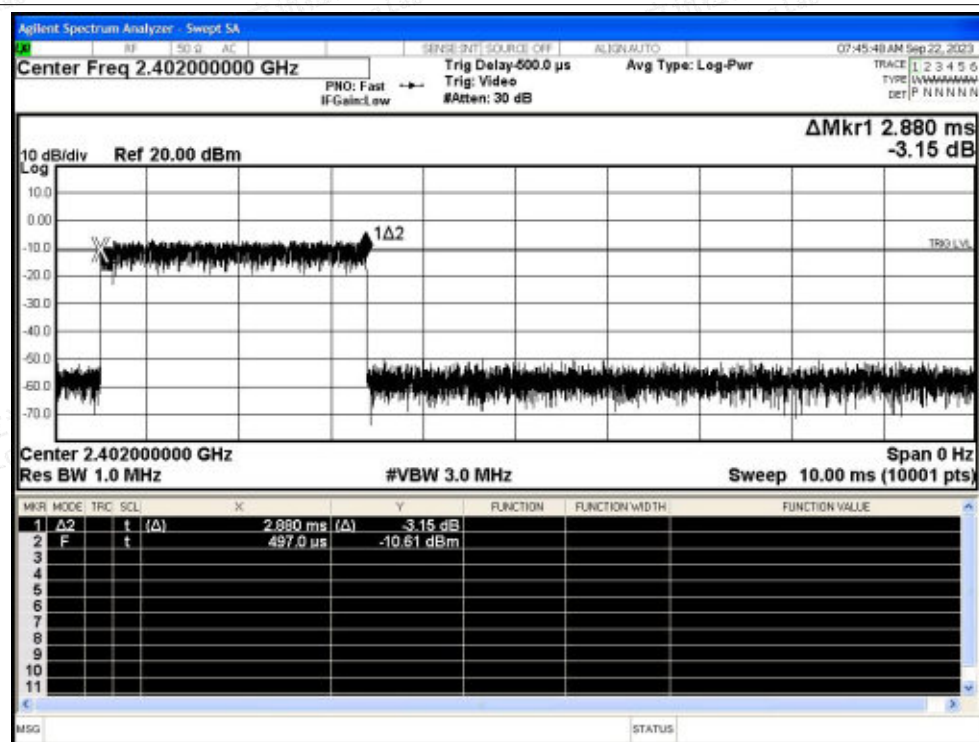
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



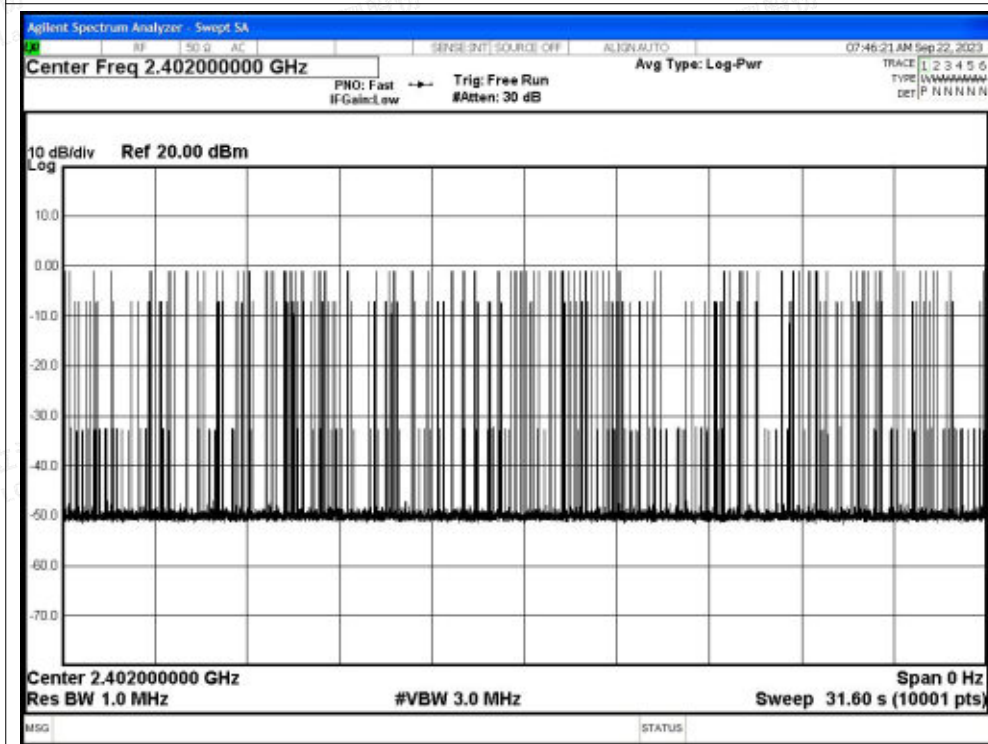
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

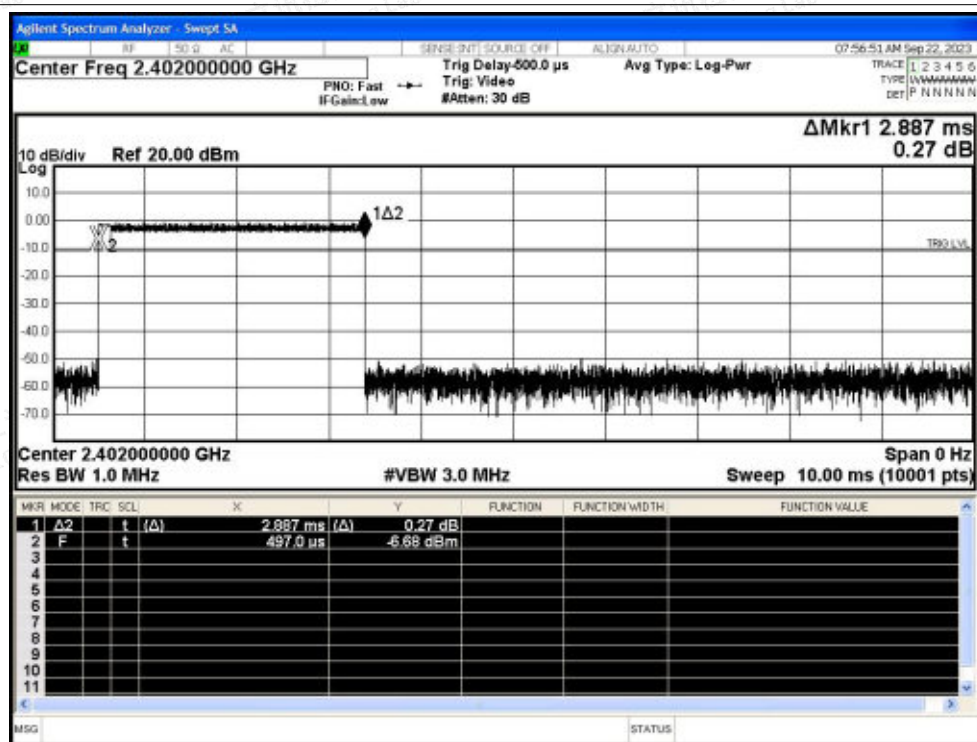


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

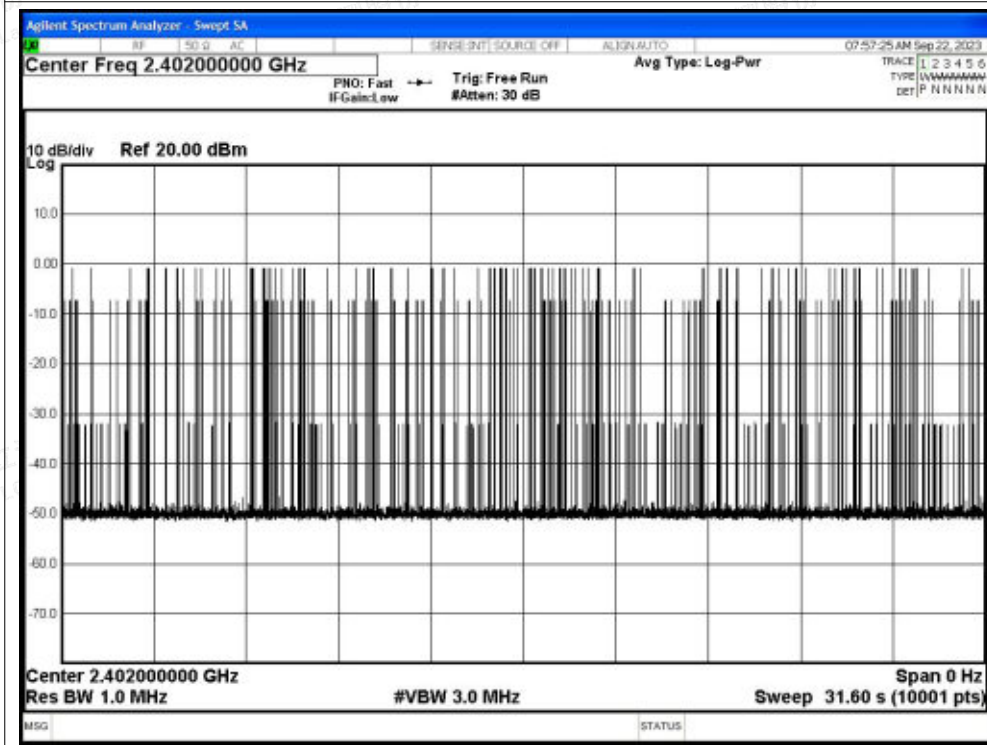




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

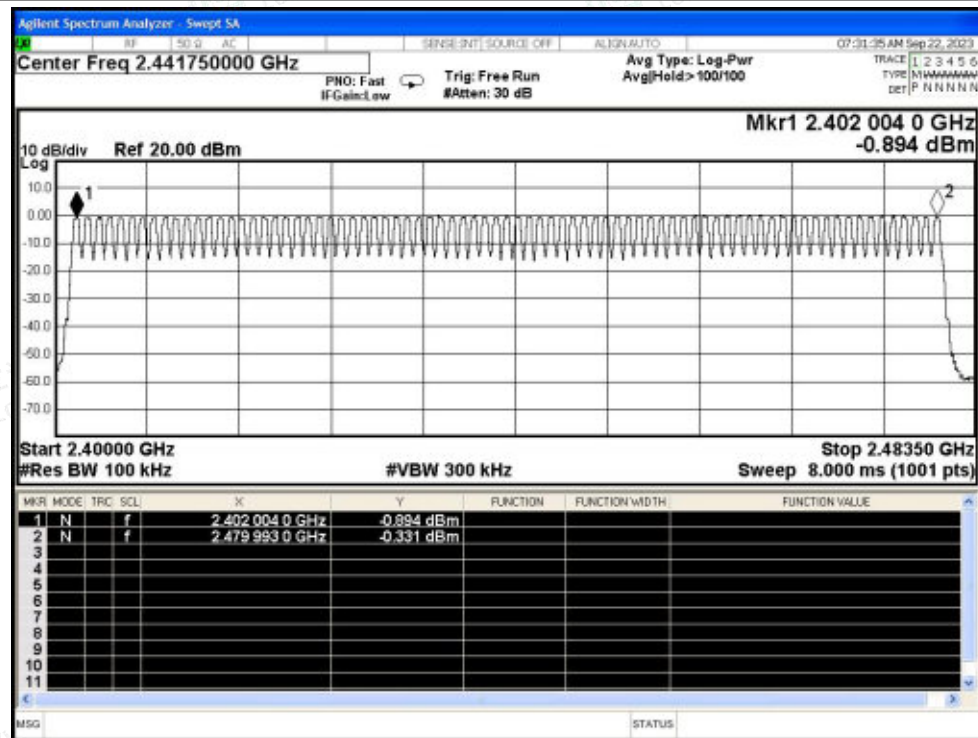
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



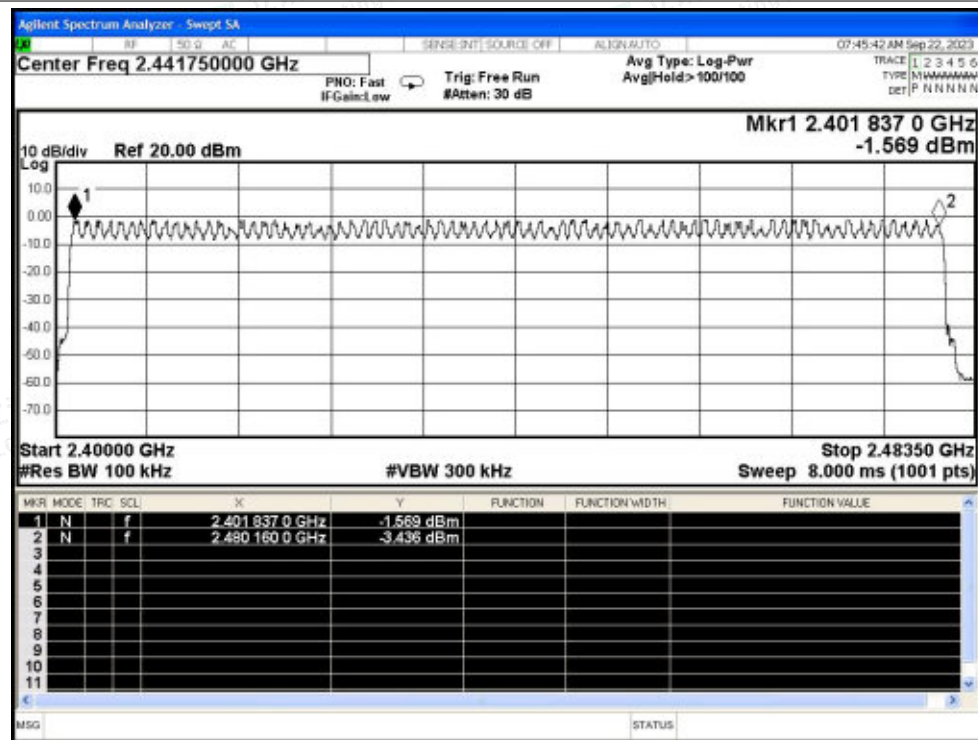


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

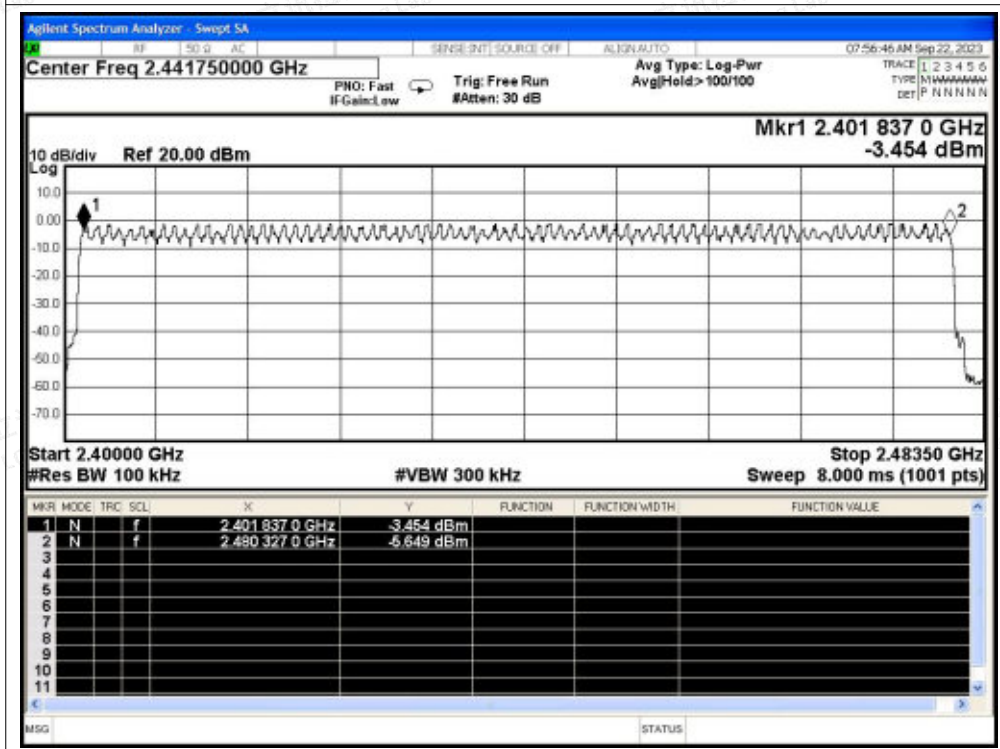


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

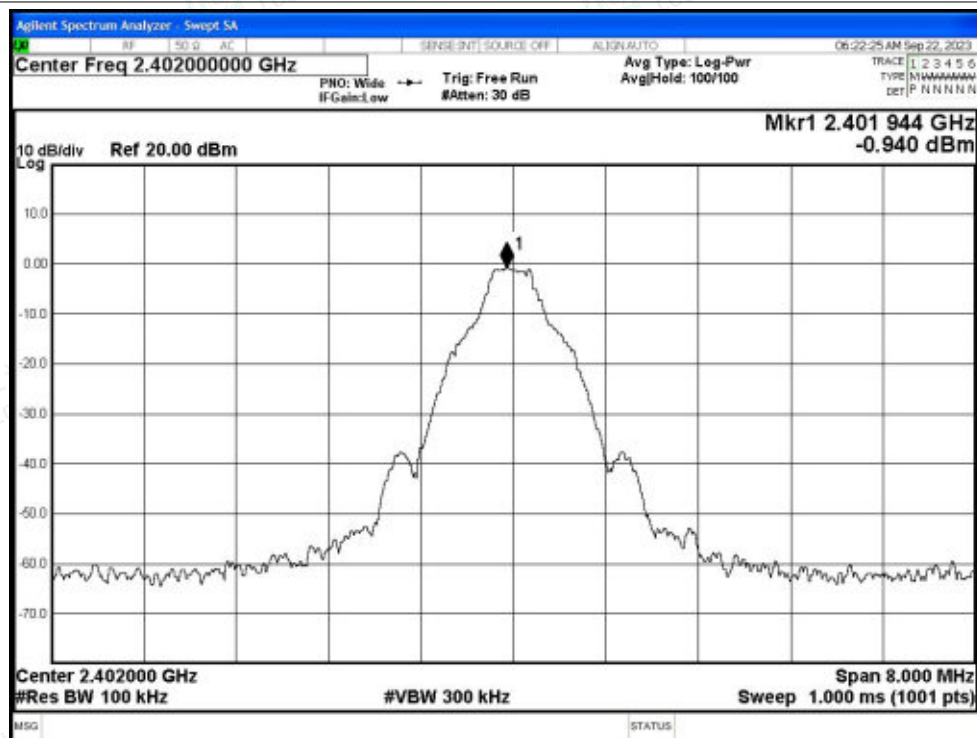
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.88	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.36	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.97	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.12	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.81	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.1	-20	Pass



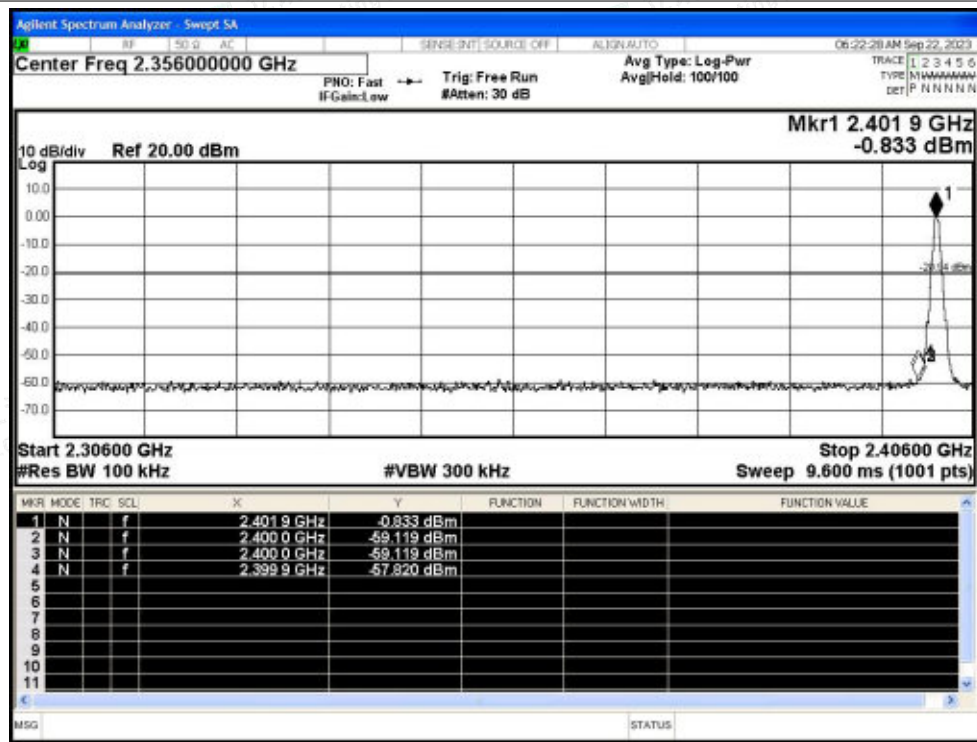


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

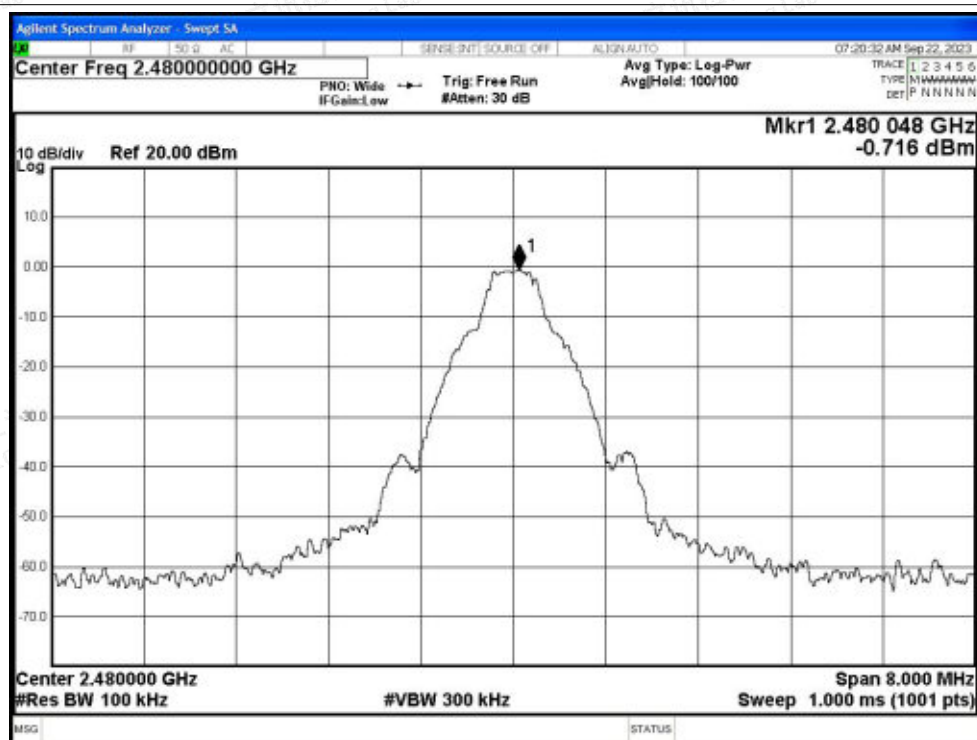


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

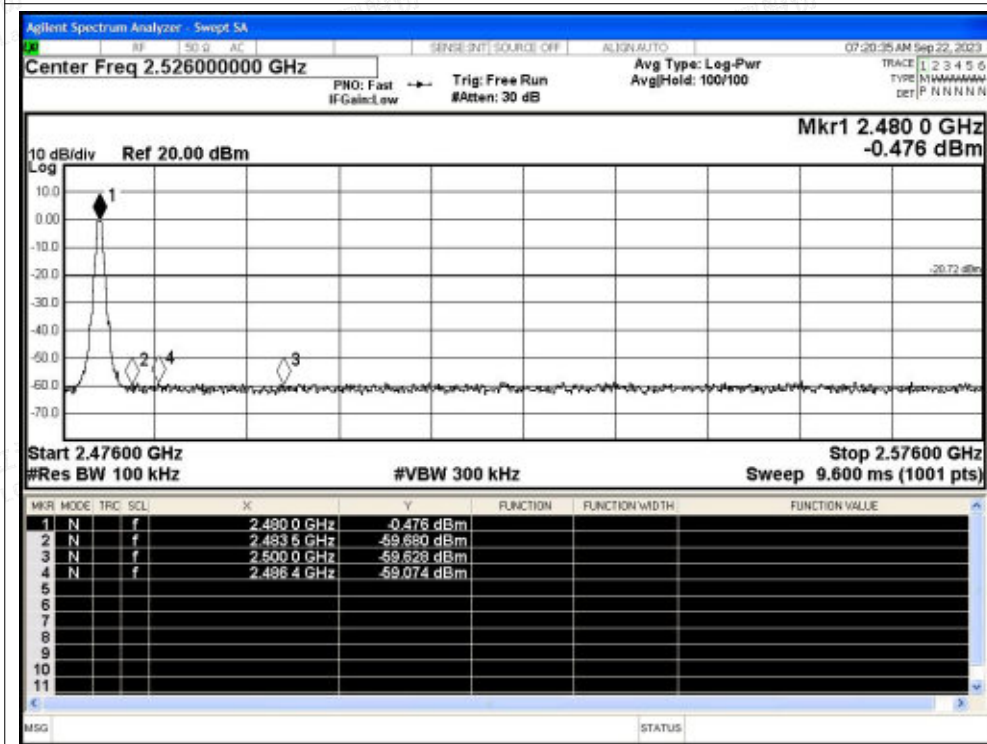




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



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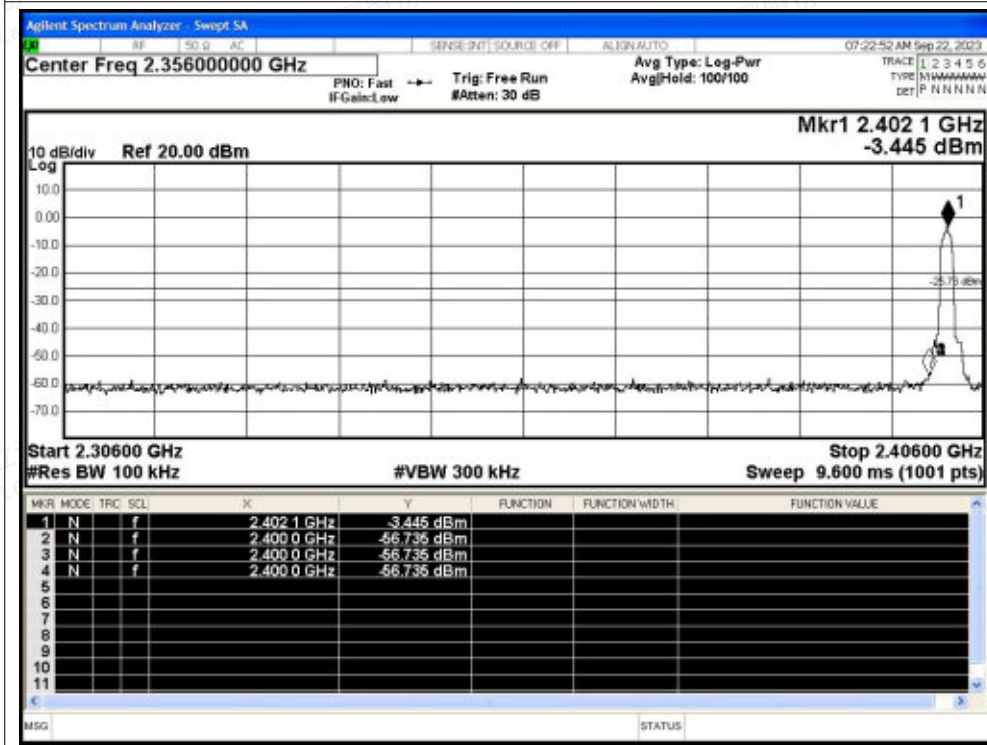
Scan code to check authenticity



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

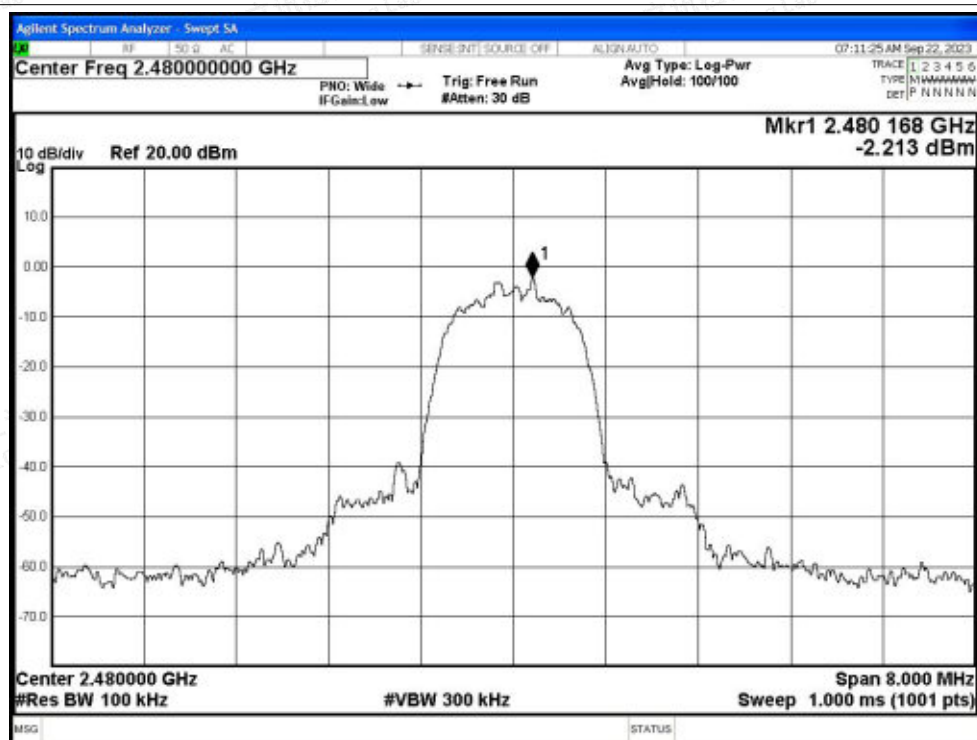


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

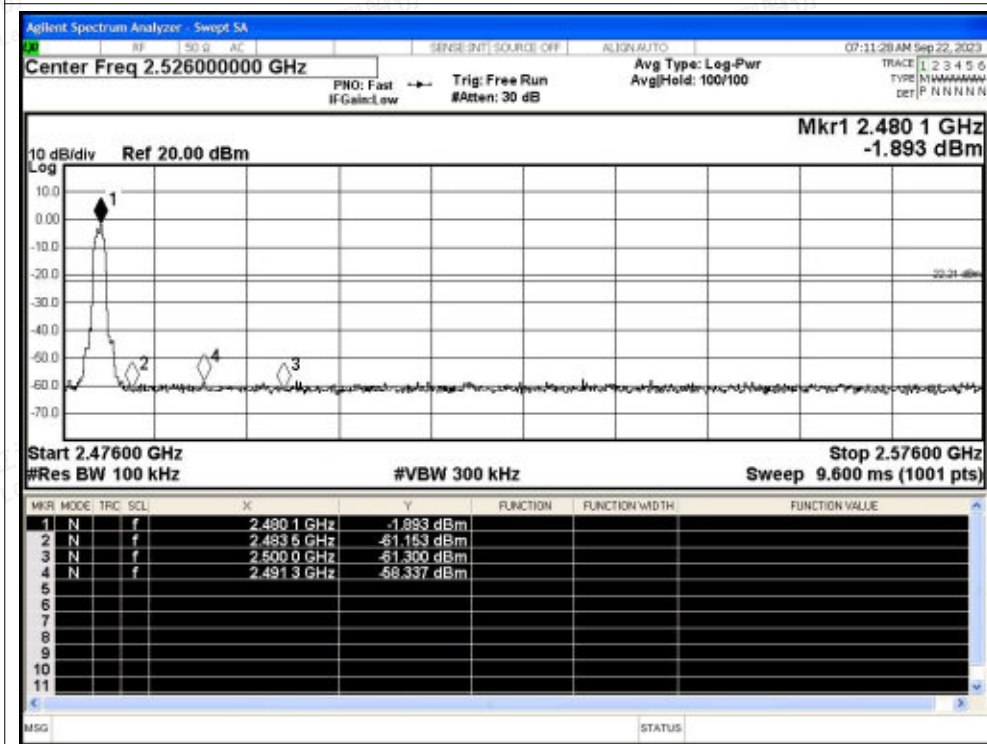




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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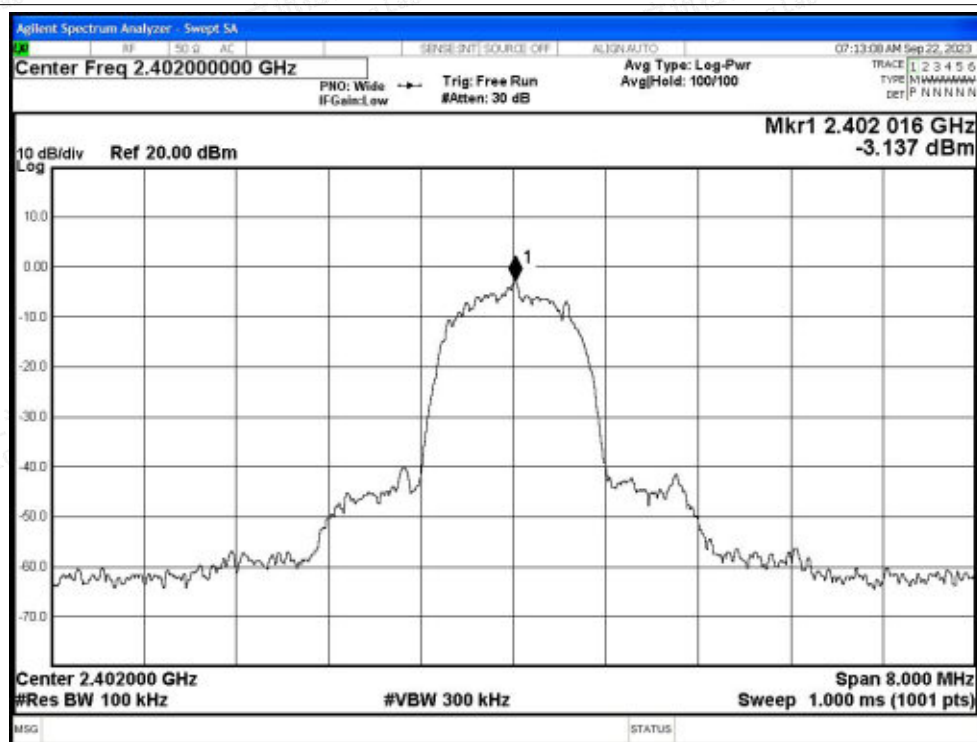
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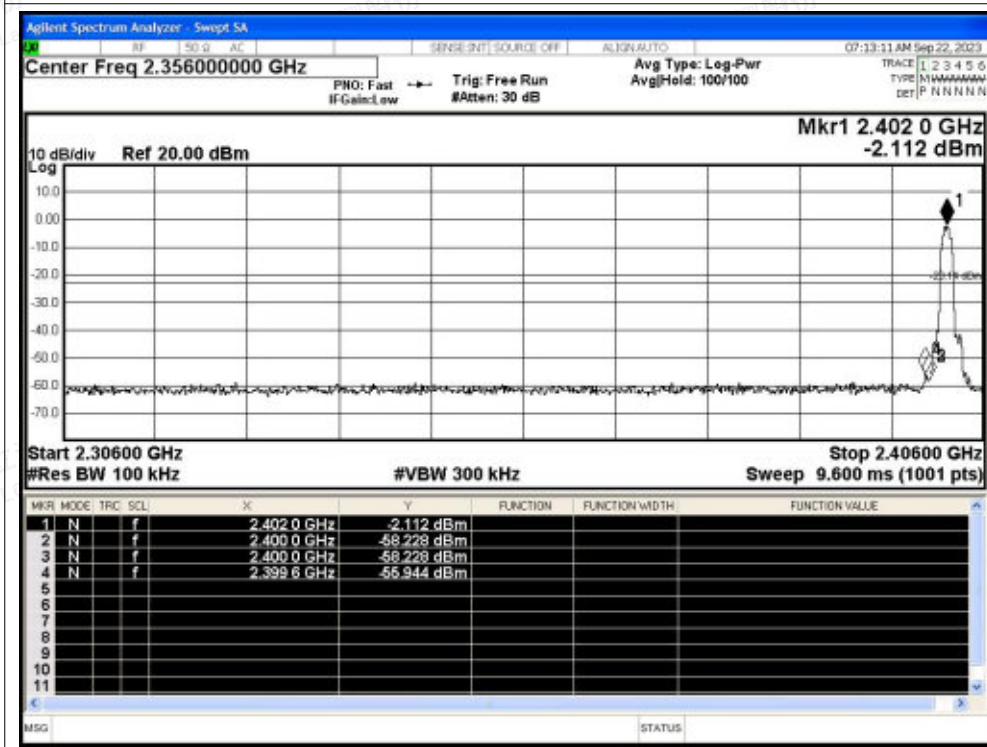
Scan code to check authenticity



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

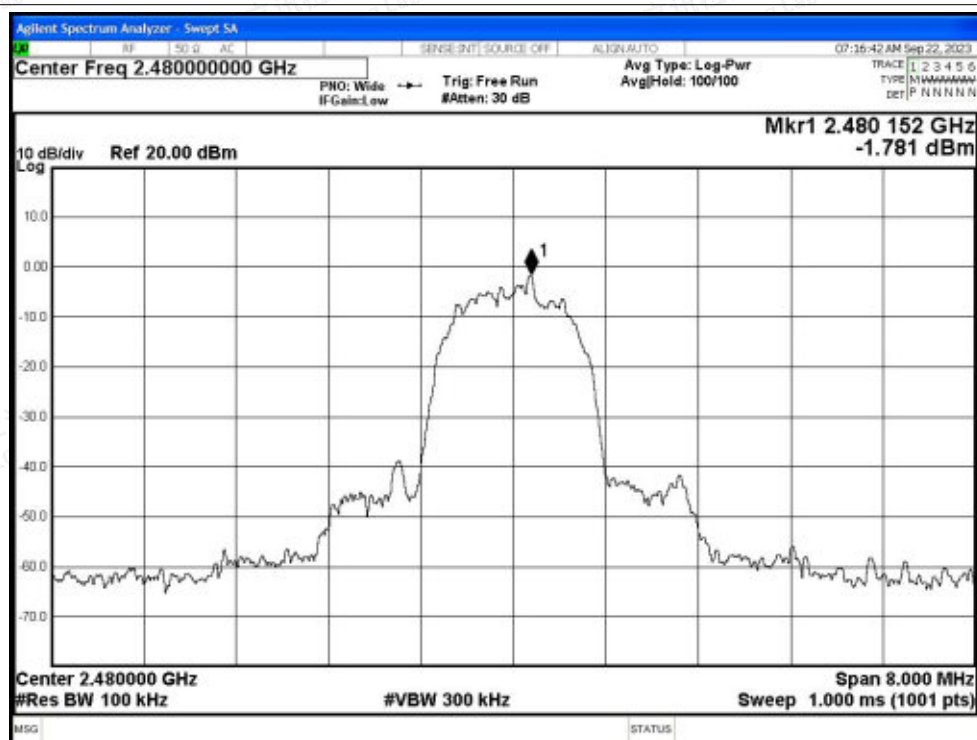


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

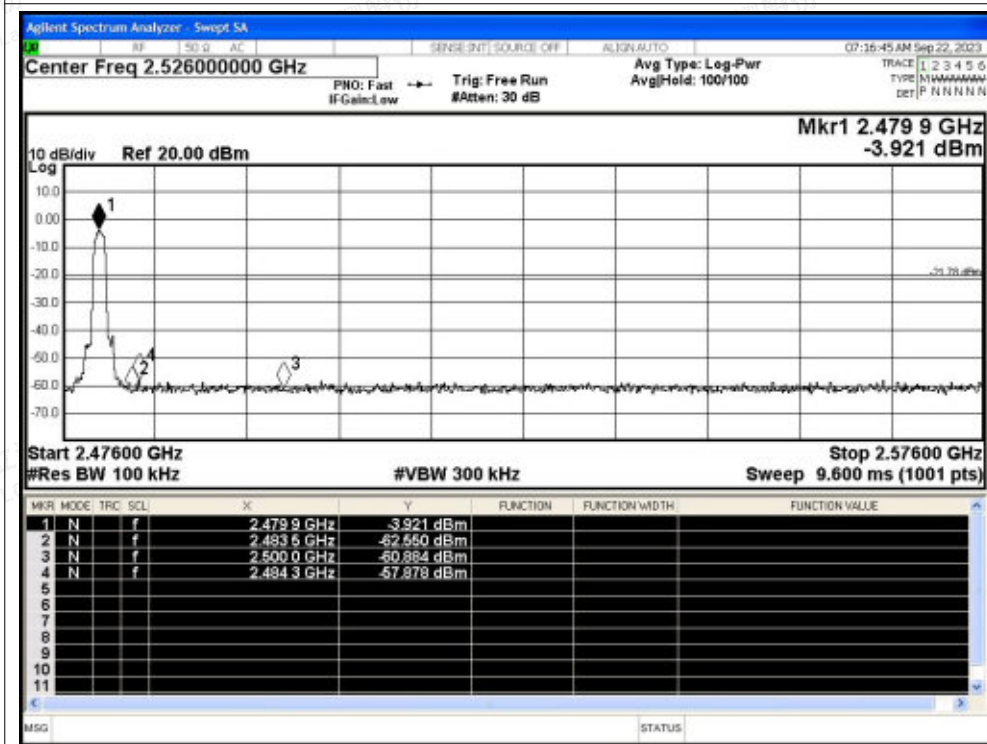




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



**(Hopping)**

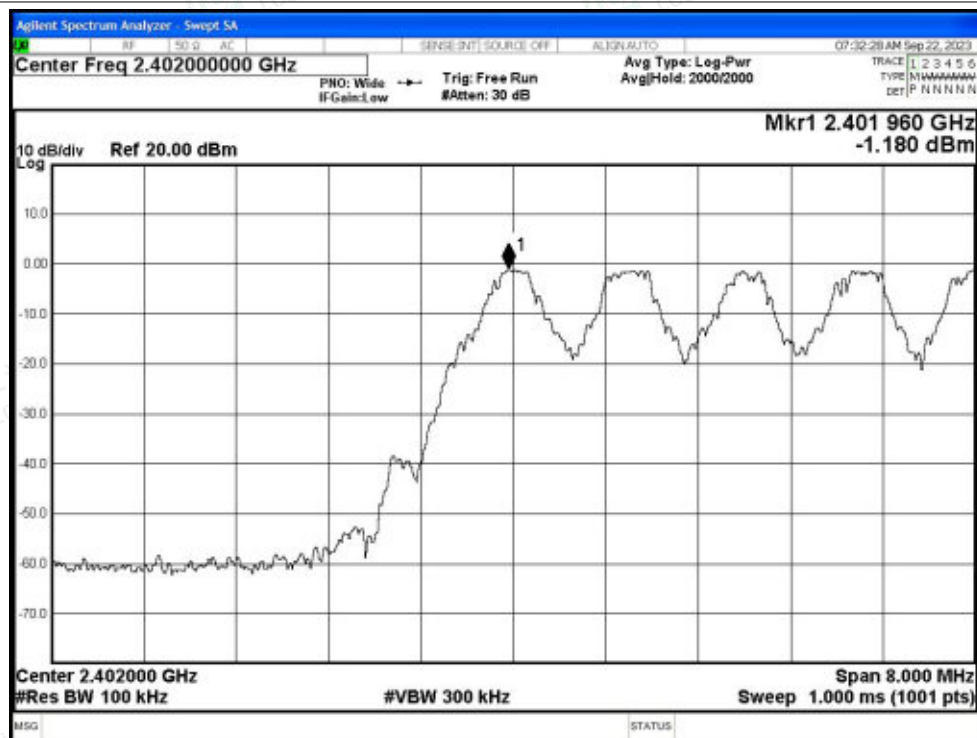
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.6	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.52	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.41	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.35	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.42	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.31	-20	Pass



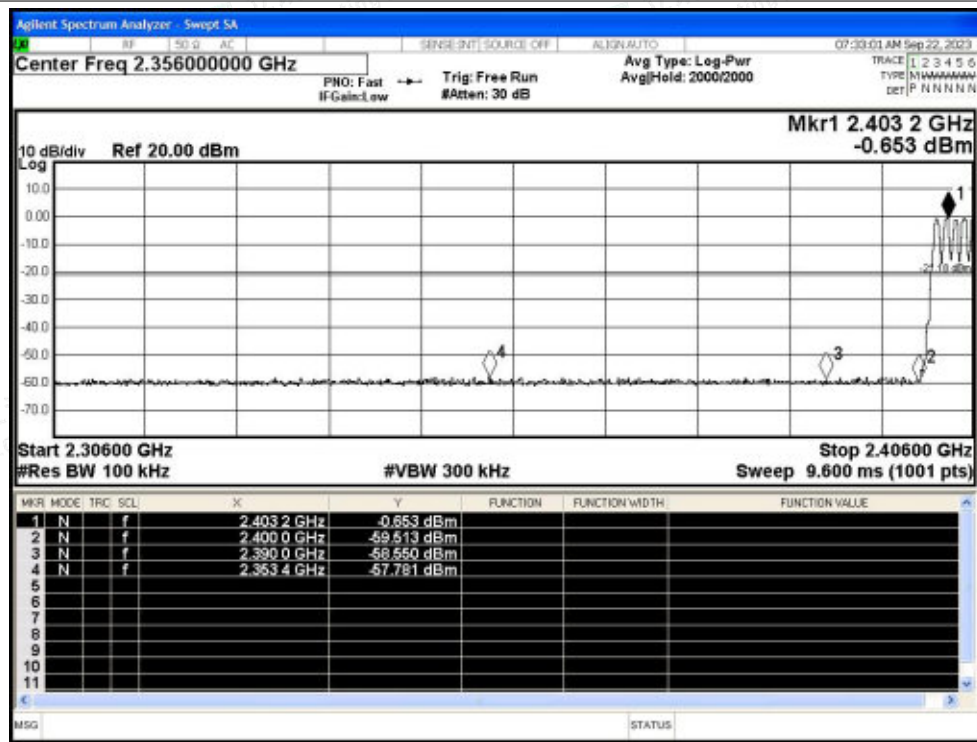


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

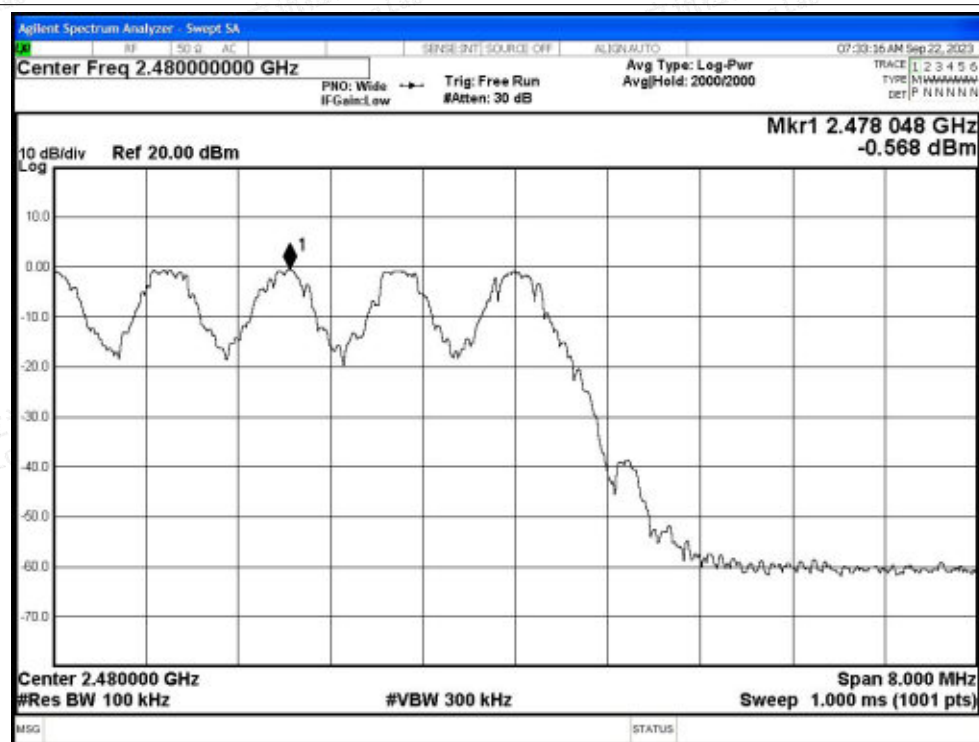


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

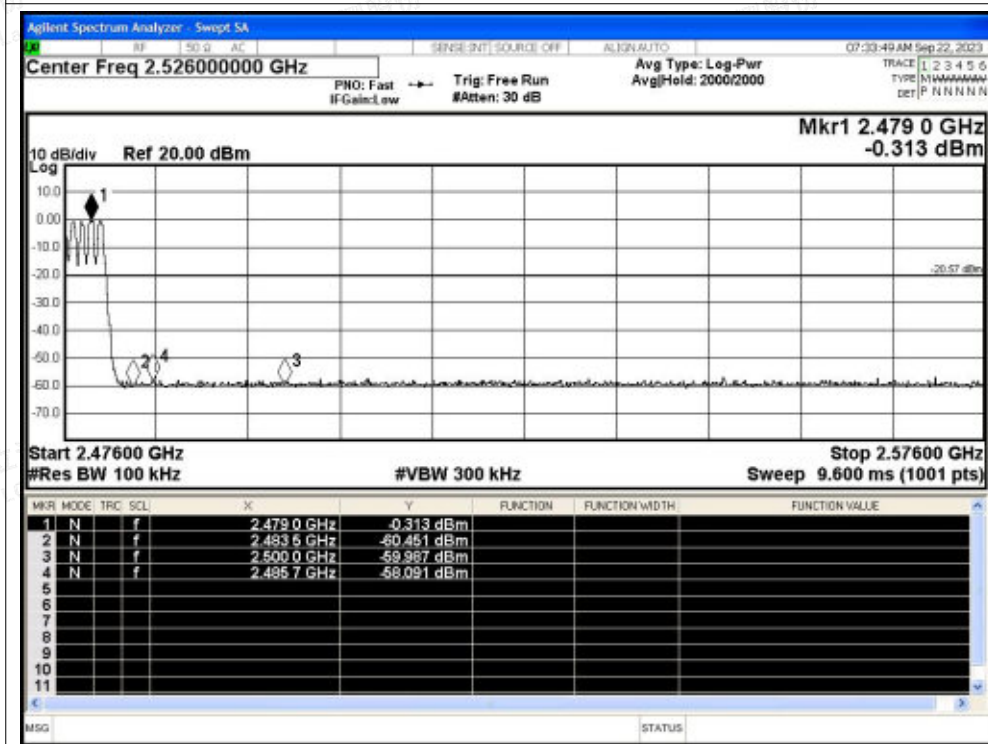




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

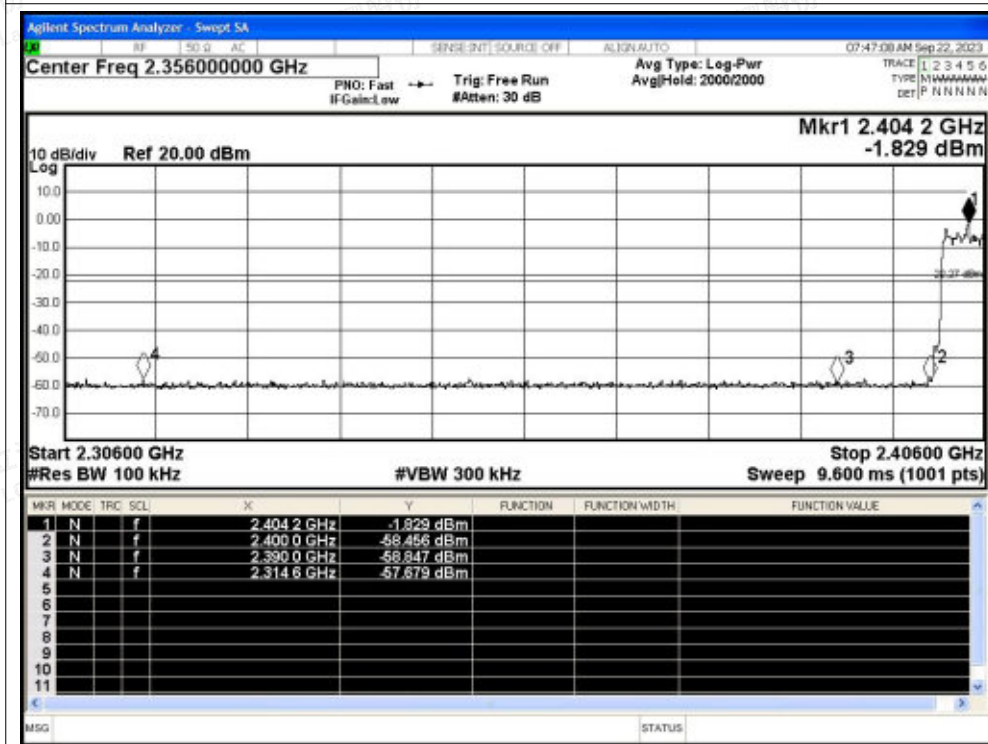




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

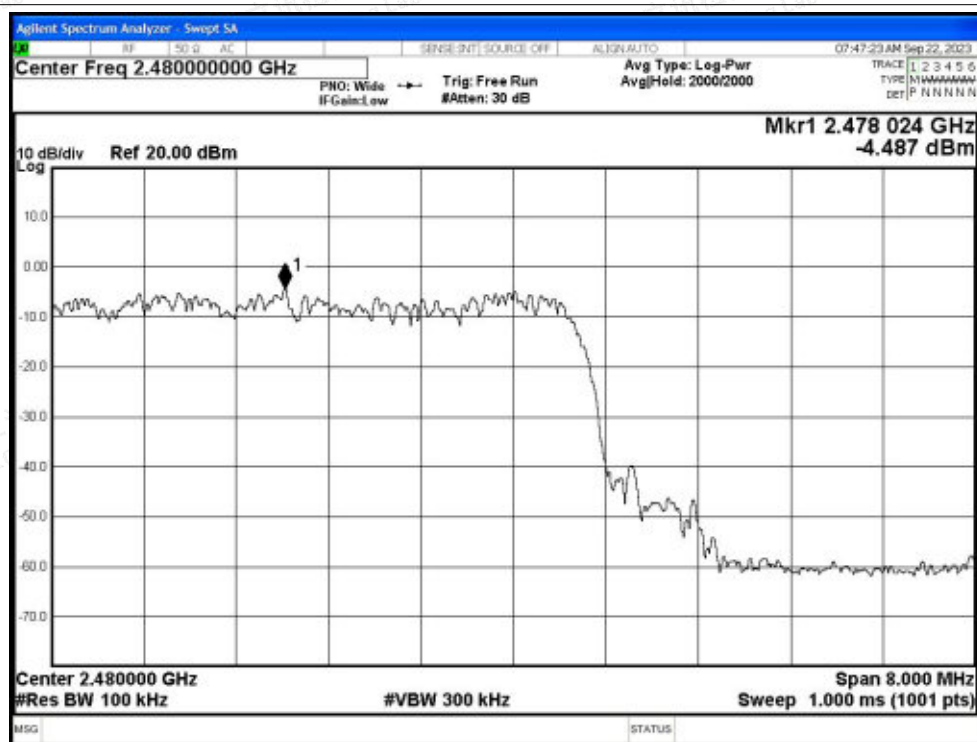


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

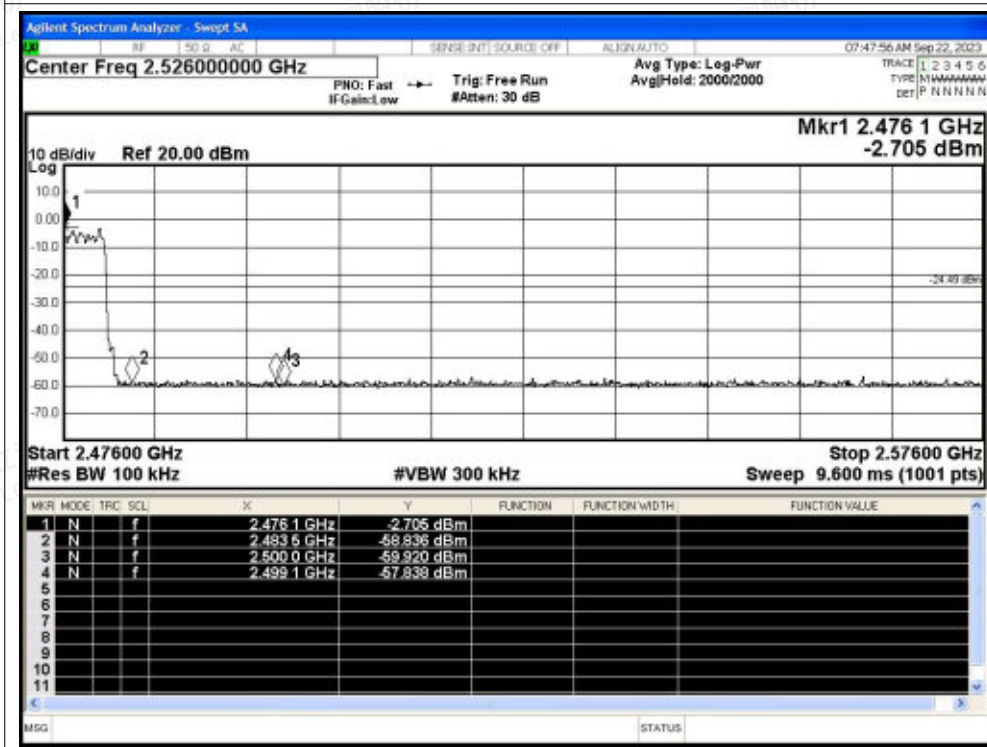




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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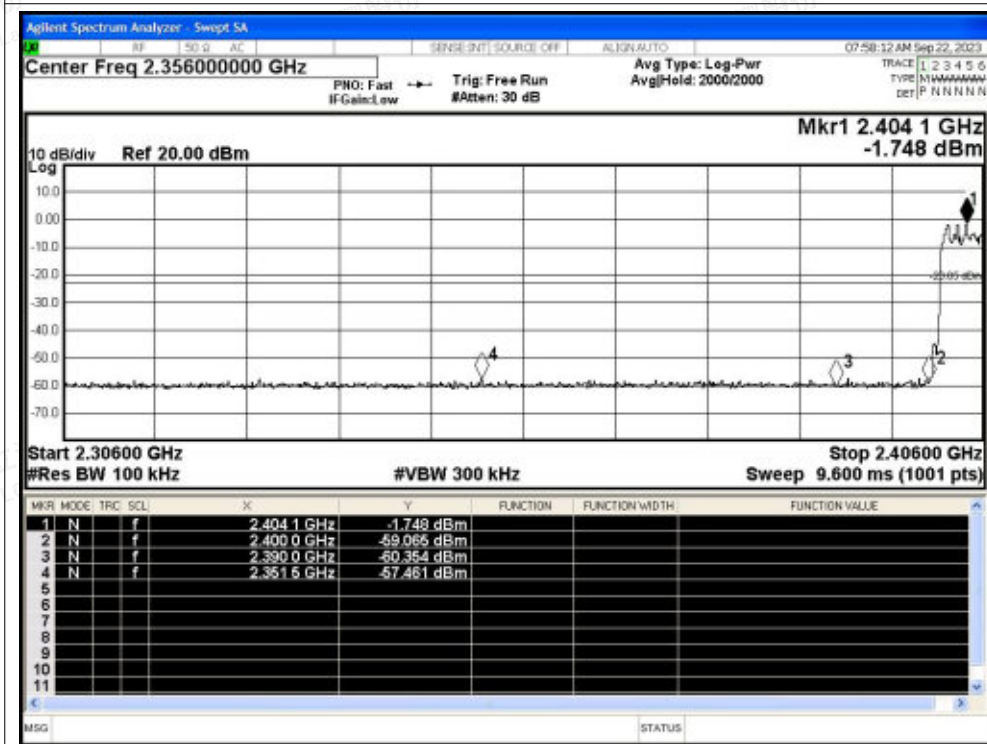
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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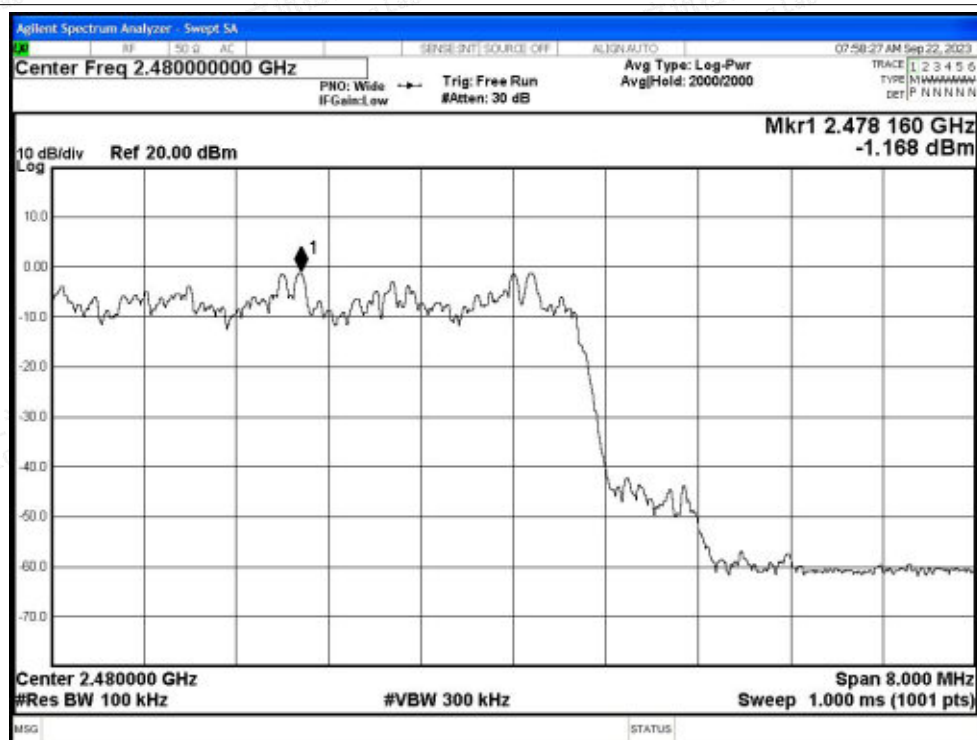
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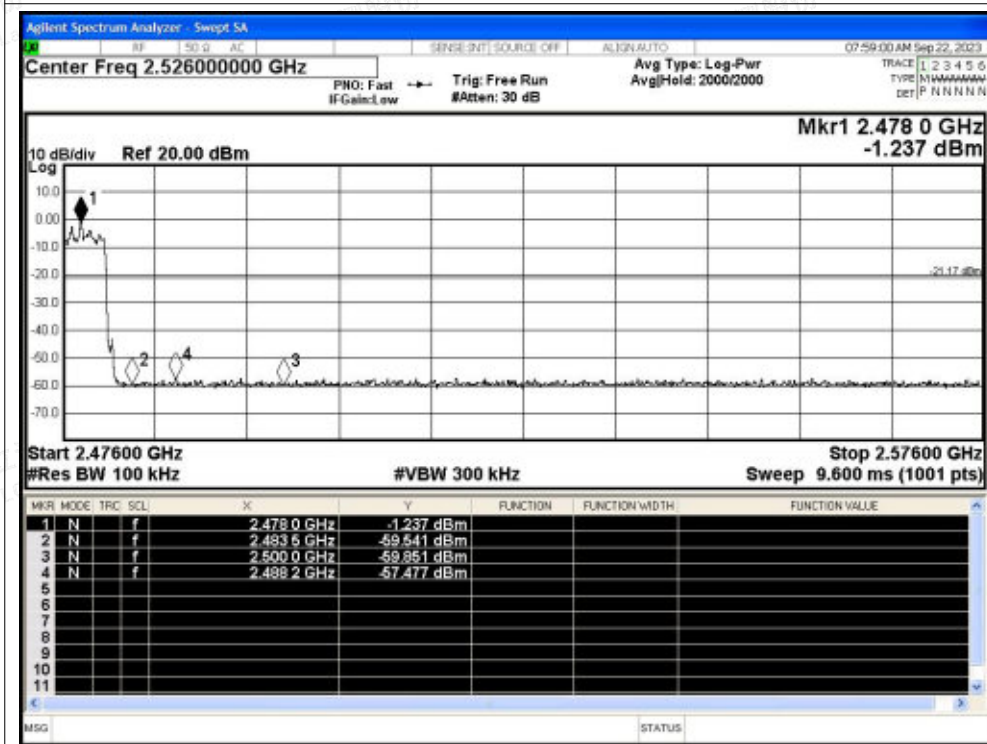
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.52	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.68	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.47	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.22	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.42	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.83	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.44	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.7	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.43	-20	Pass

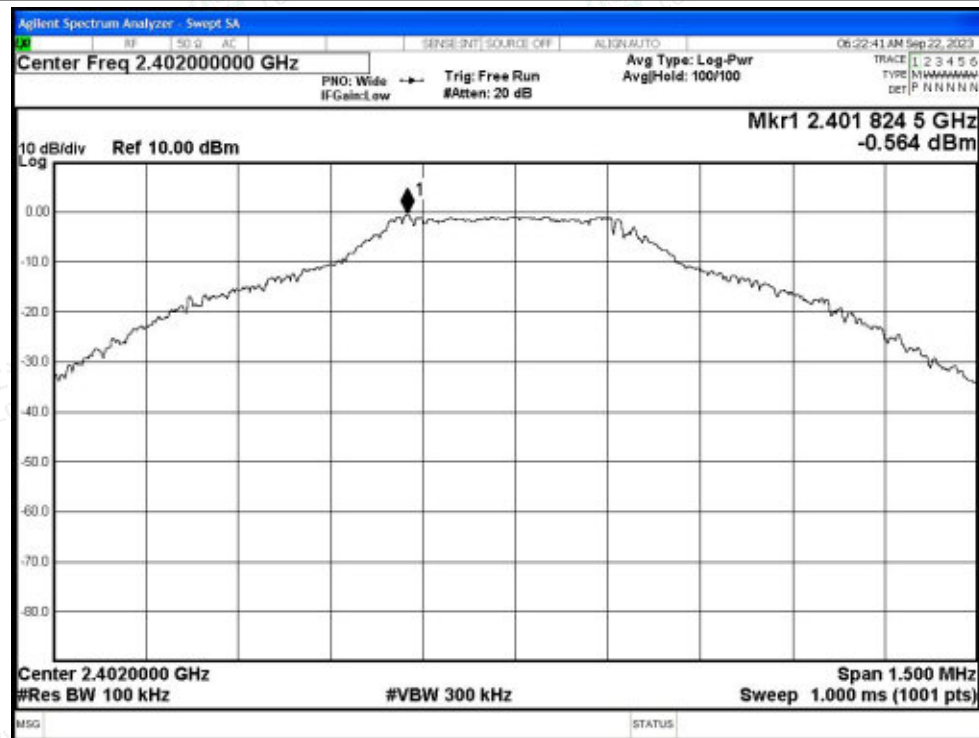


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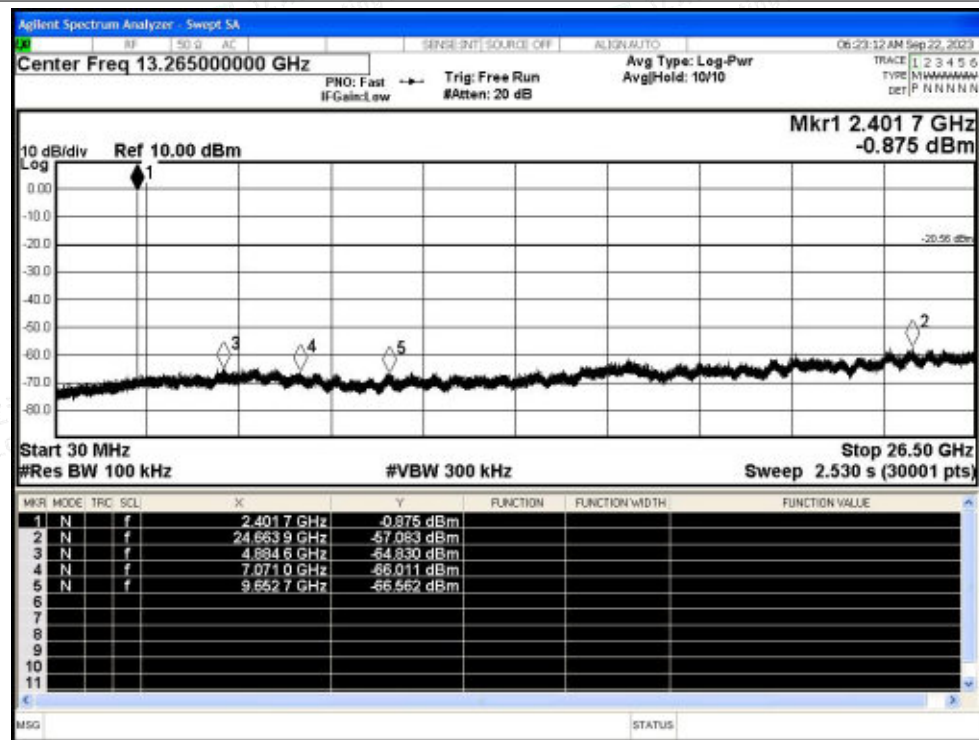


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

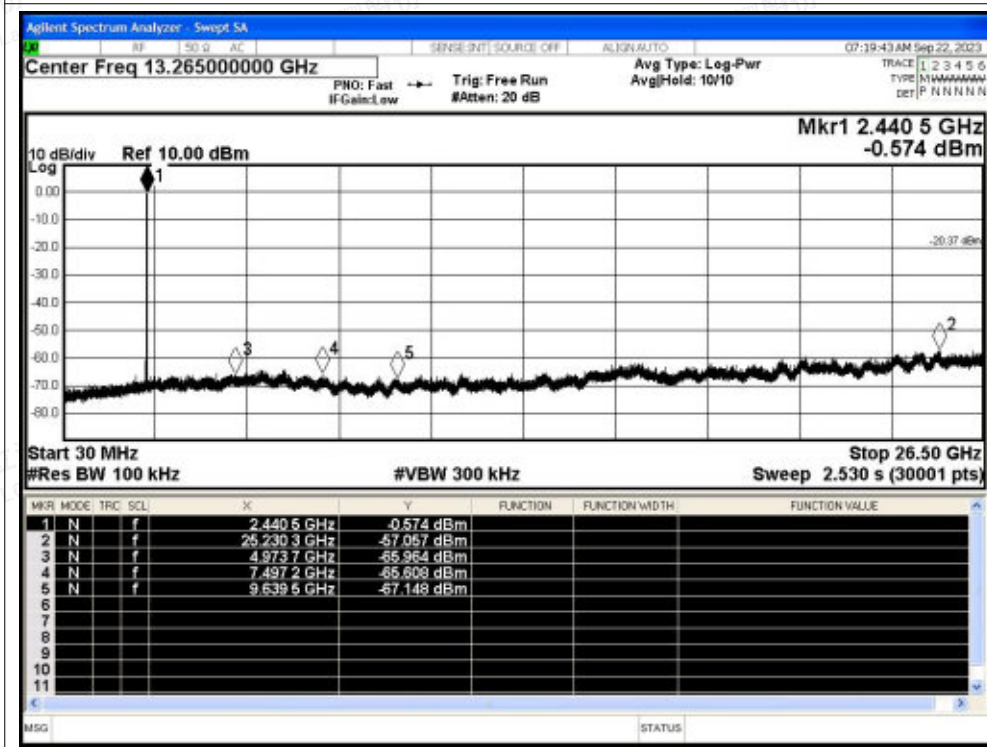




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

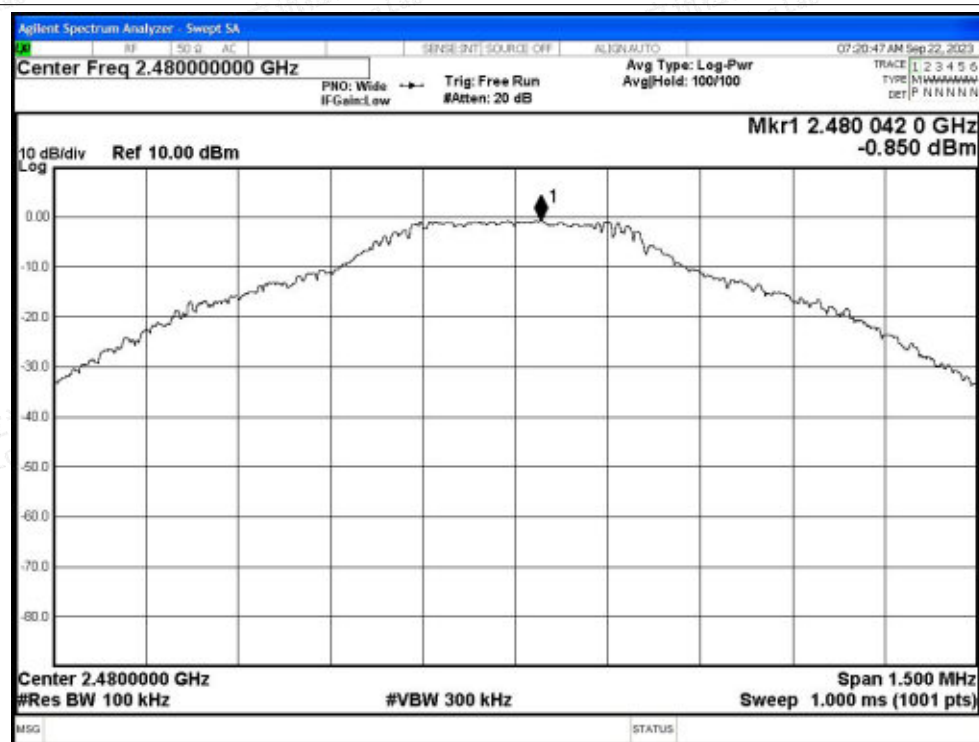


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

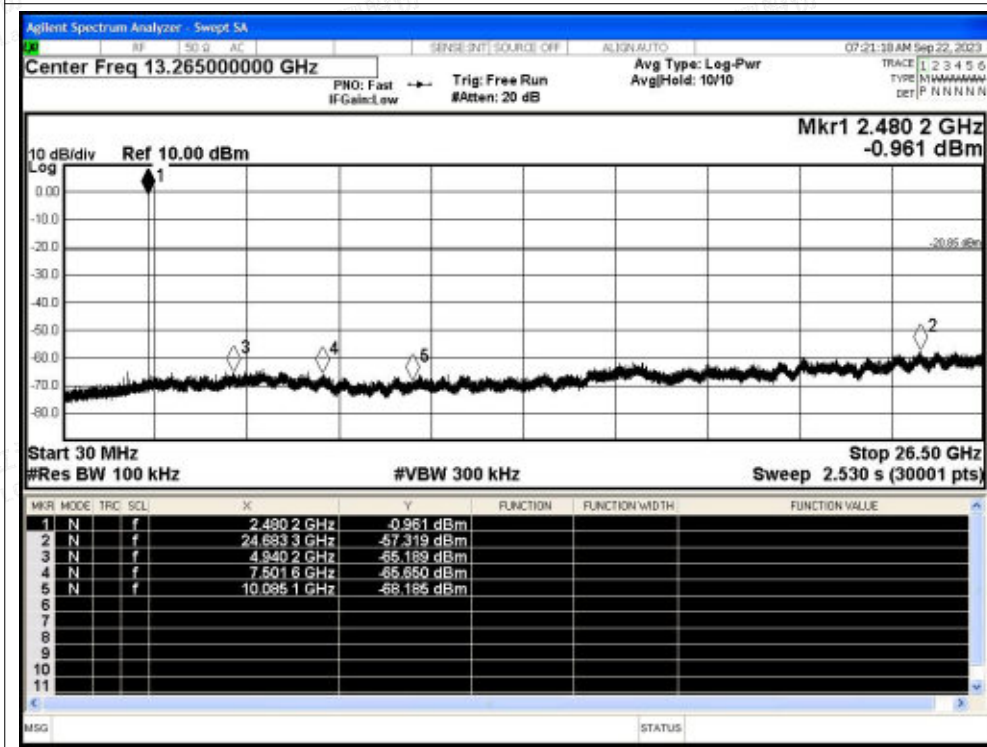




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

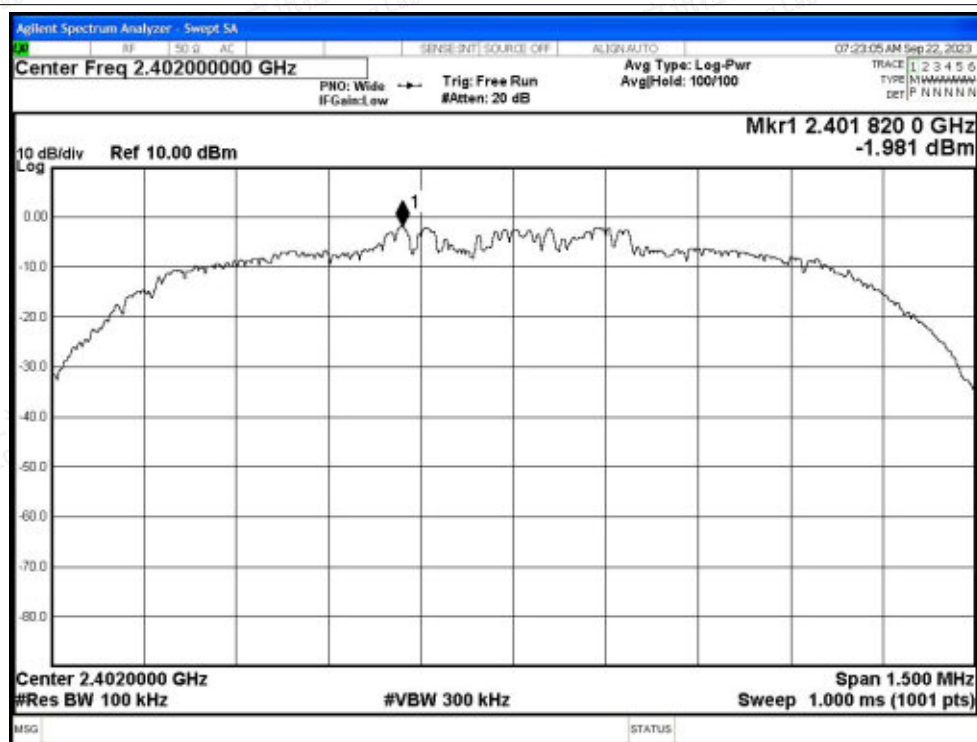


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

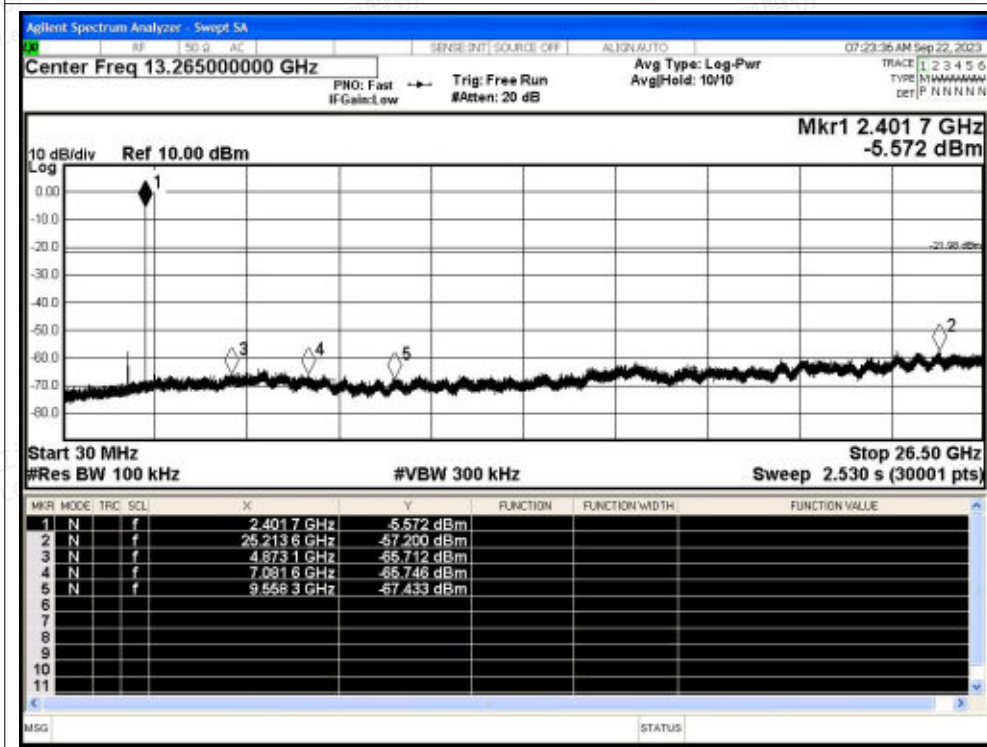




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

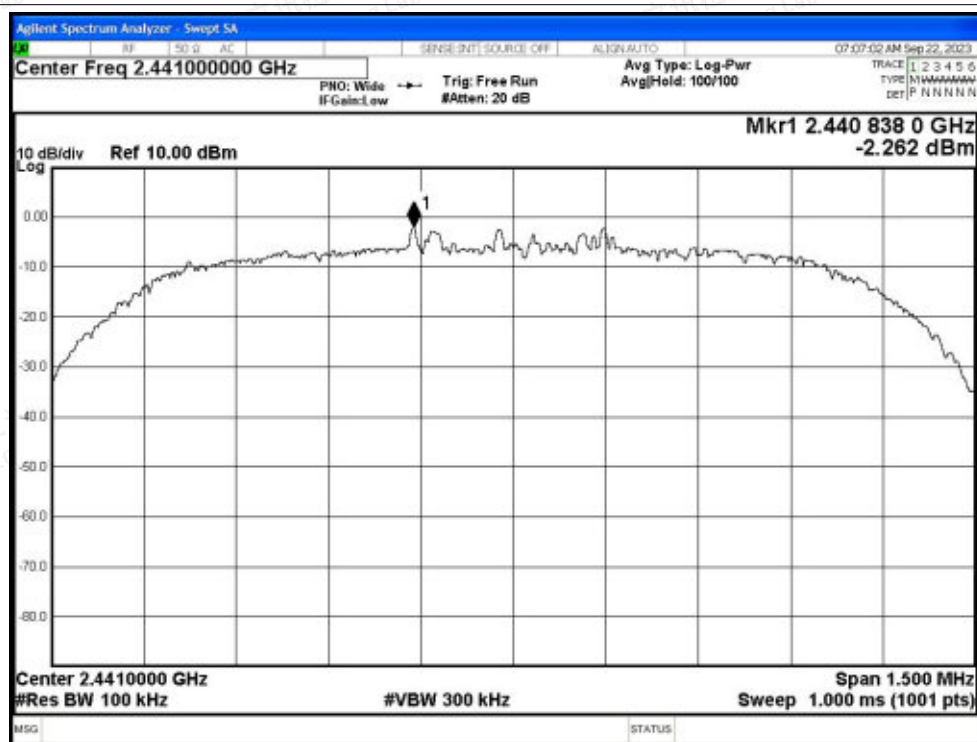


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

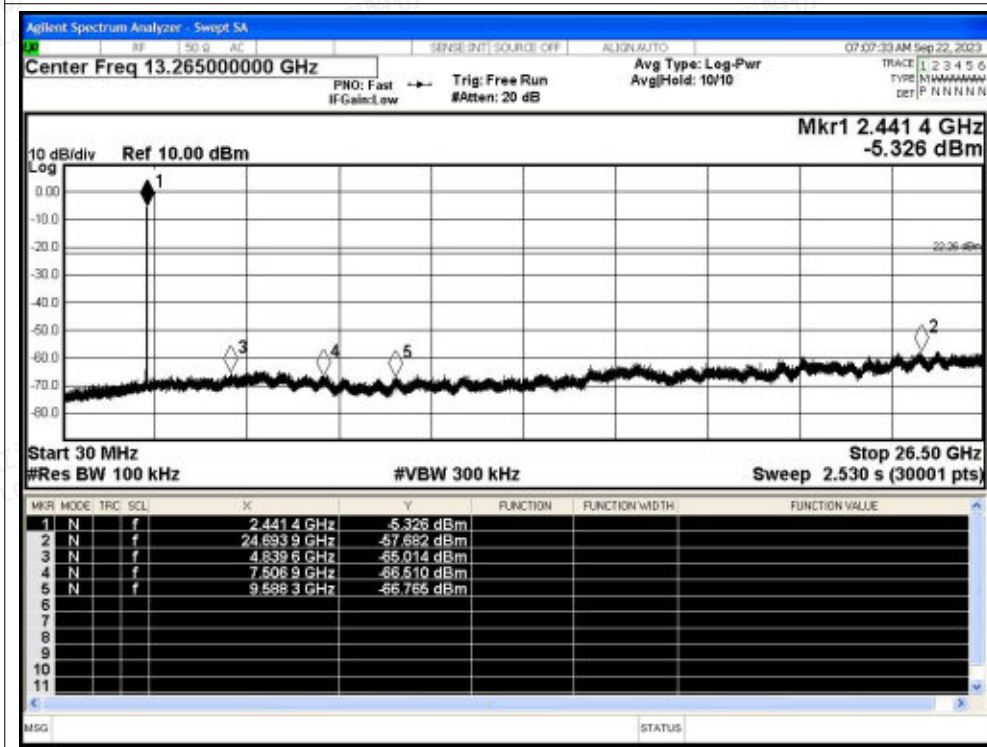




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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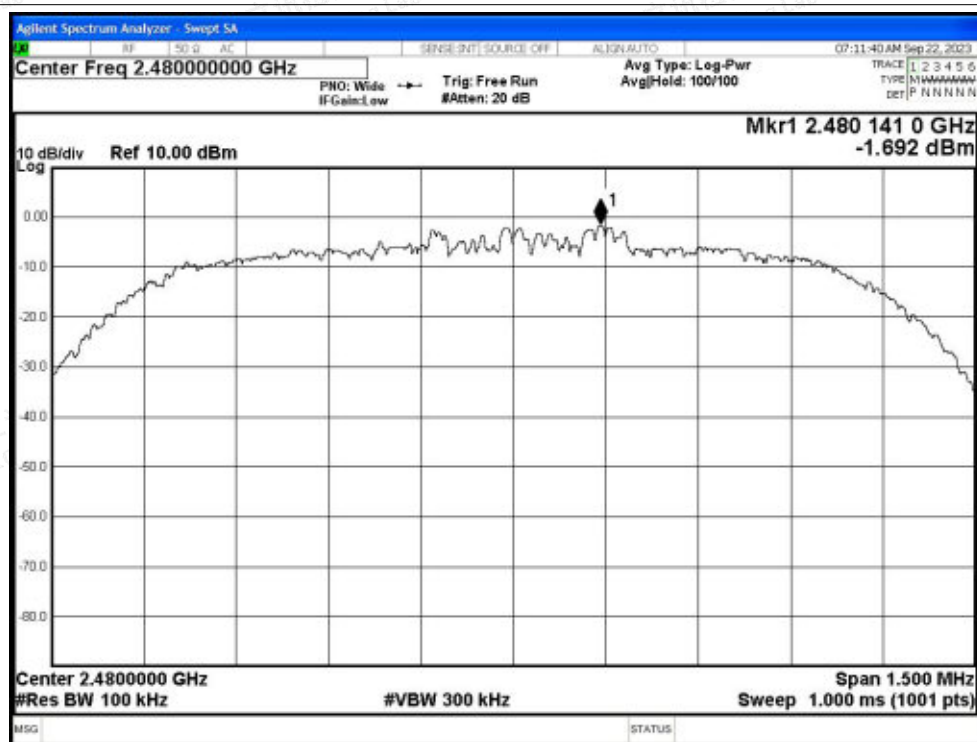
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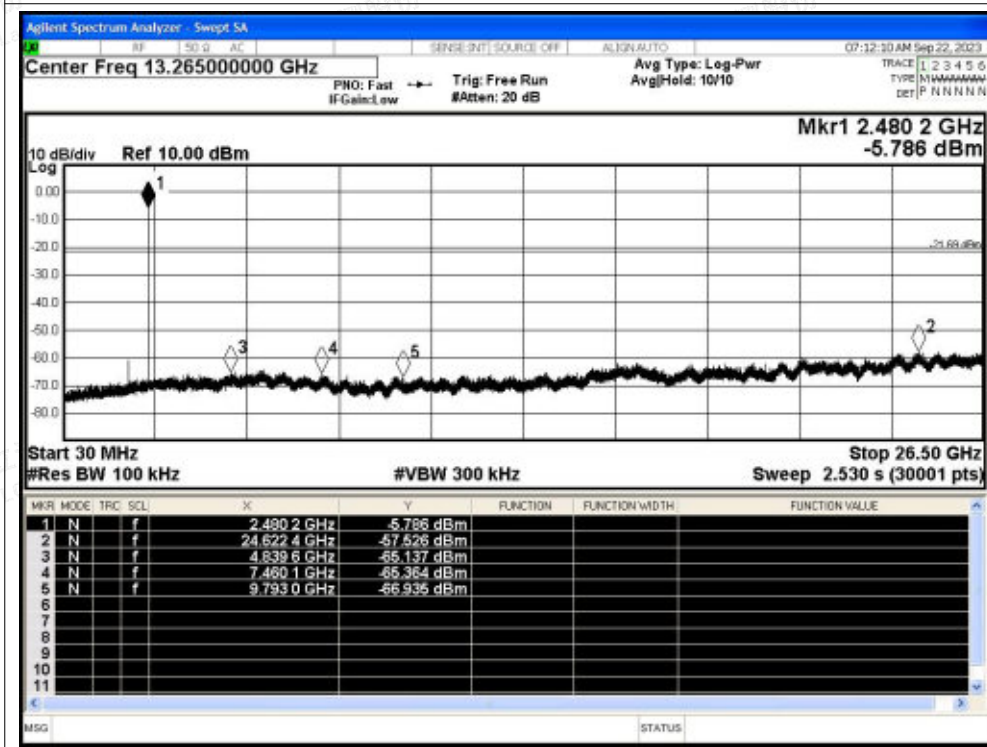
Scan code to check authenticity



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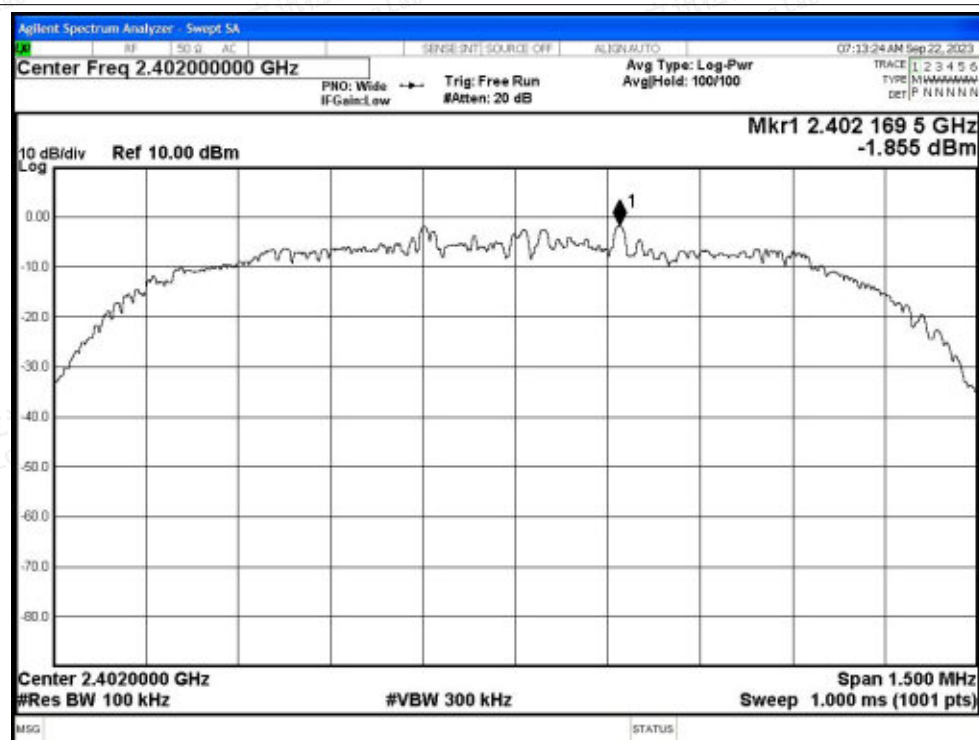


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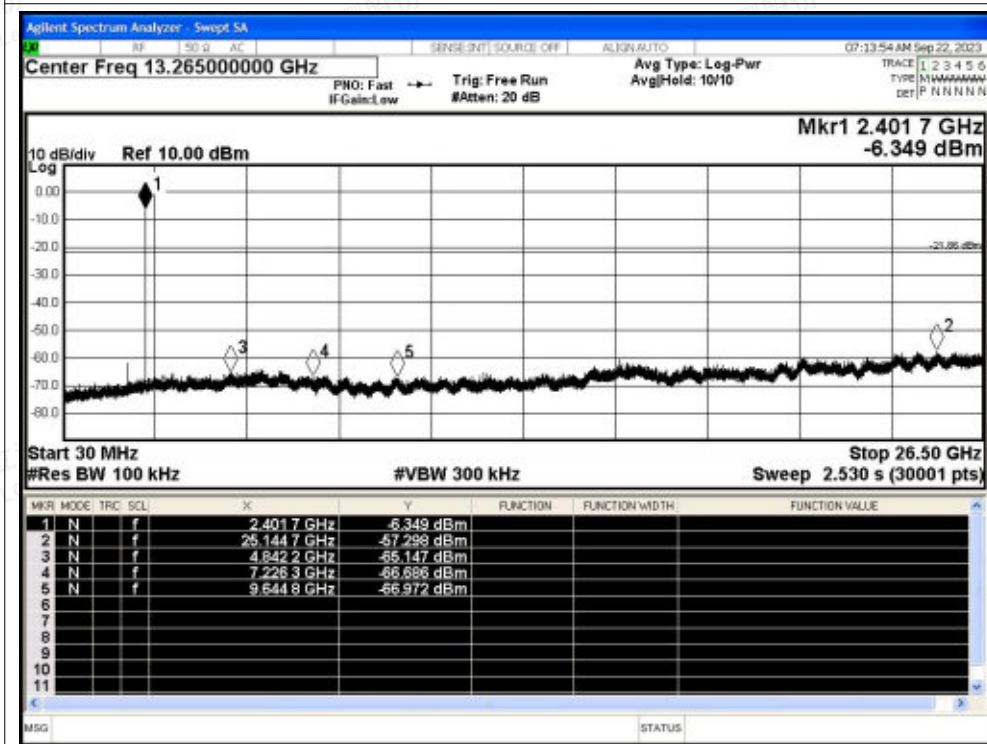




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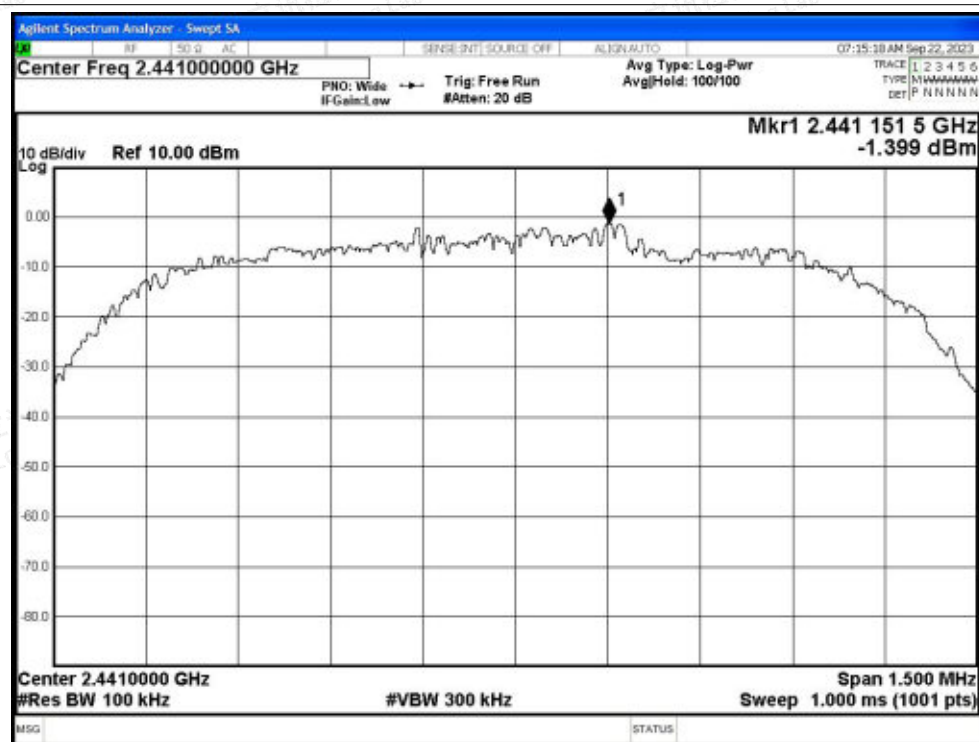


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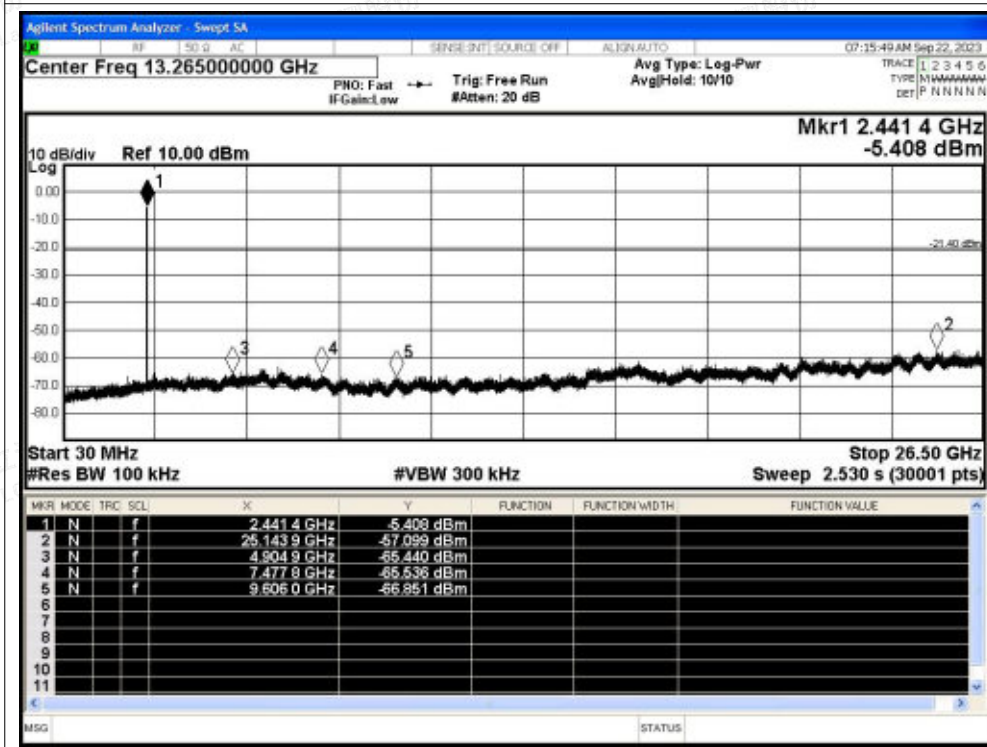




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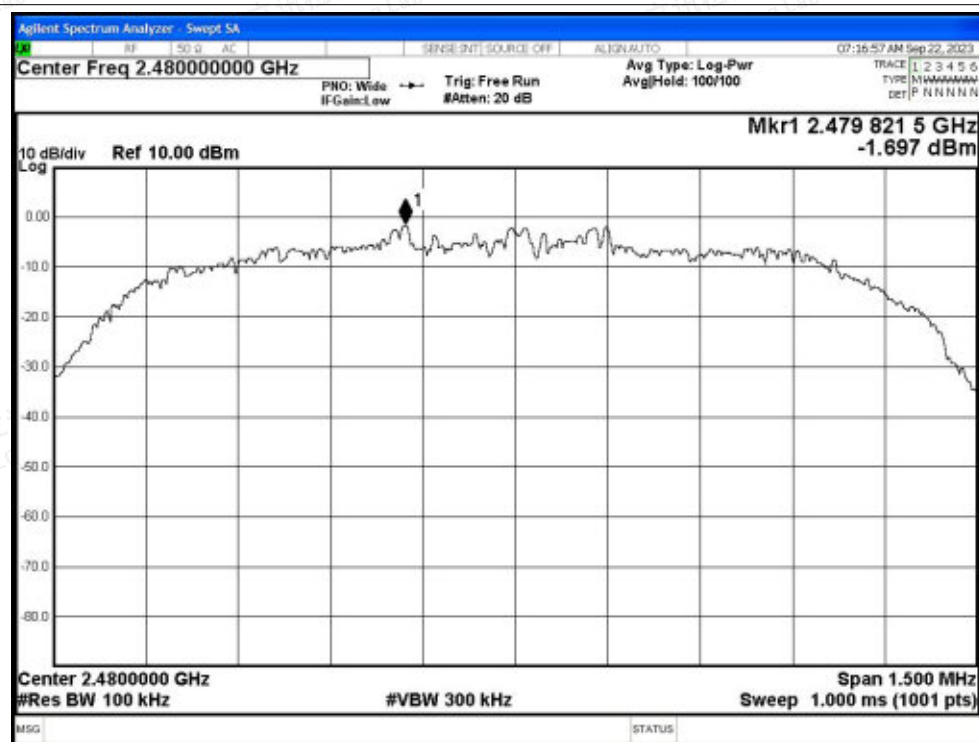


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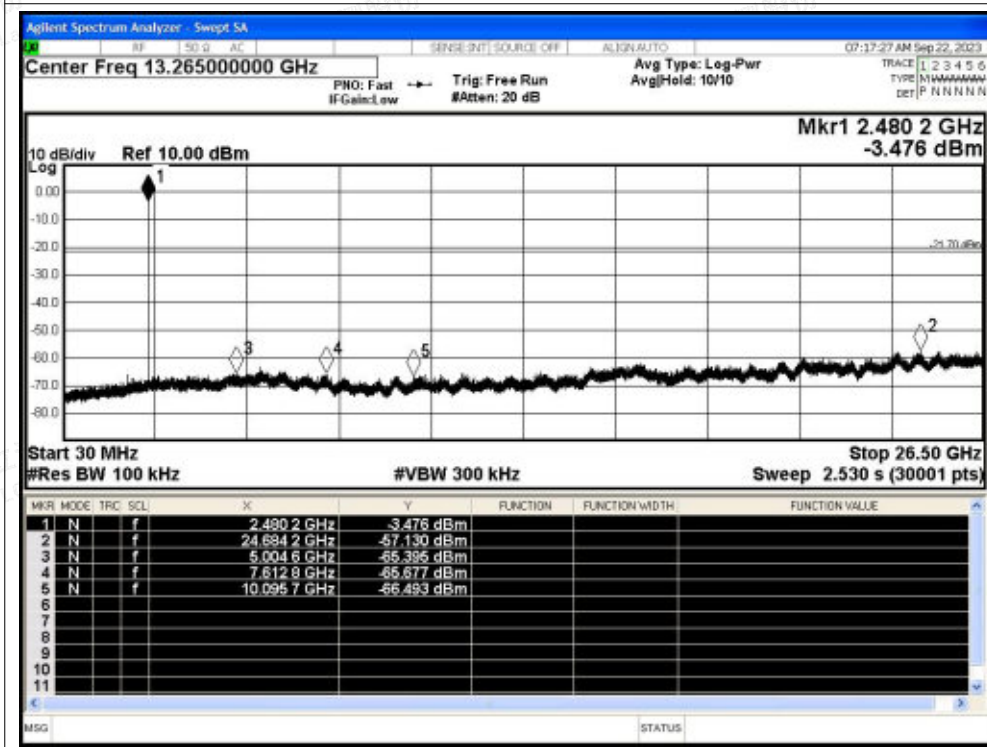




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-52.35	2	44.91	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.18	2	35.08	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2328.048	-49.59	2	47.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.792	-61.57	2	35.69	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-52.2	2	45.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.73	2	35.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.76	2	46.5	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.22	2	36.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.136	-48.57	2	48.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.424	-61.09	2	36.17	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.92	2	44.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.43	2	35.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.11	2	45.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62	2	35.26	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2312.784	-49.12	2	48.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.896	-61.47	2	35.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-53.75	2	43.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.67	2	35.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.61	2	45.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-61.2	2	36.06	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.656	-48.93	2	48.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-61.1	2	36.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.63	2	46.63	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.61	2	35.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.29	2	44.97	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.01	2	35.25	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2319.408	-49.27	2	47.99	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.392	-61.46	2	35.8	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.47	2	45.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.62	2	35.64	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.95	2	45.31	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-61.31	2	35.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2489.344	-48.59	2	48.67	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.184	-61.09	2	36.17	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-53.01	2	44.25	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.54	2	35.72	Average	54	Pass

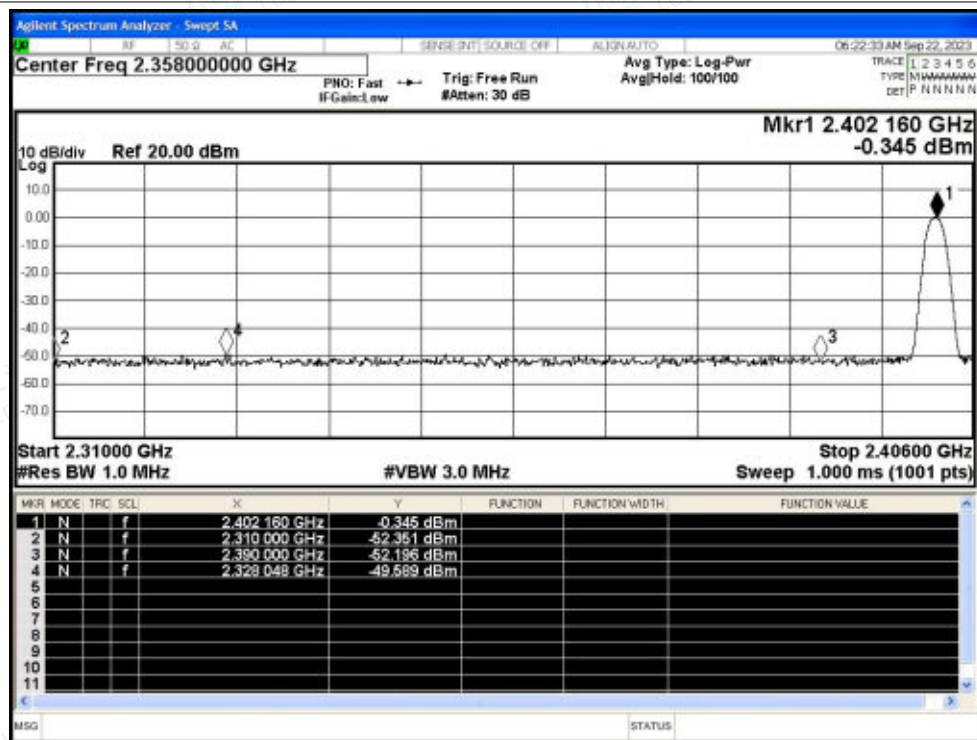


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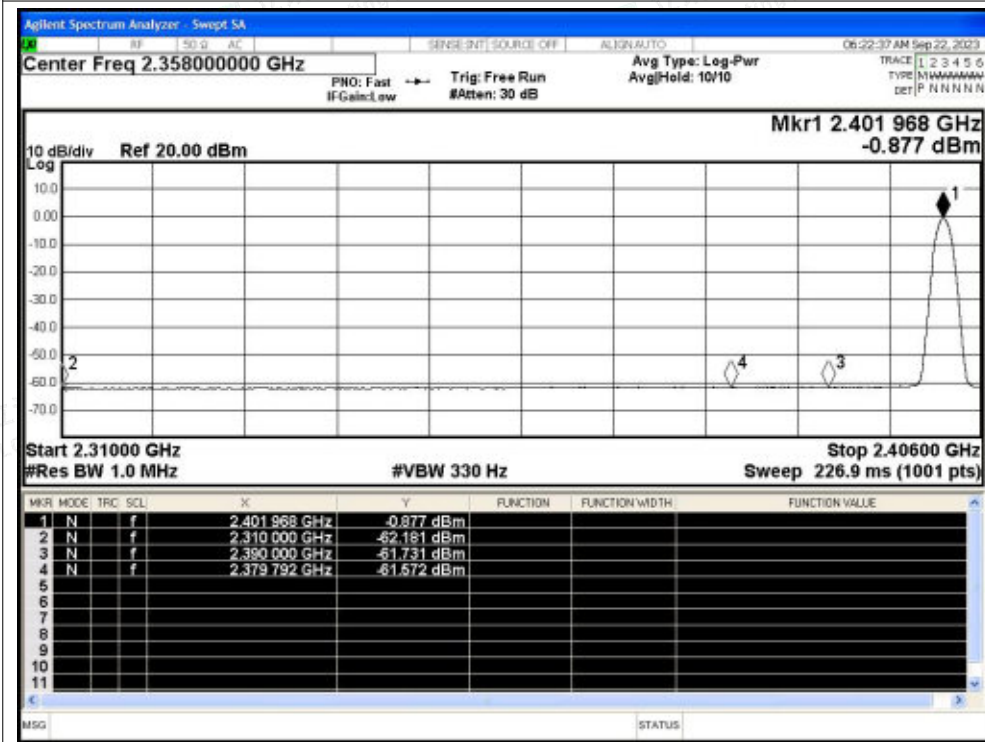


Test Graphs

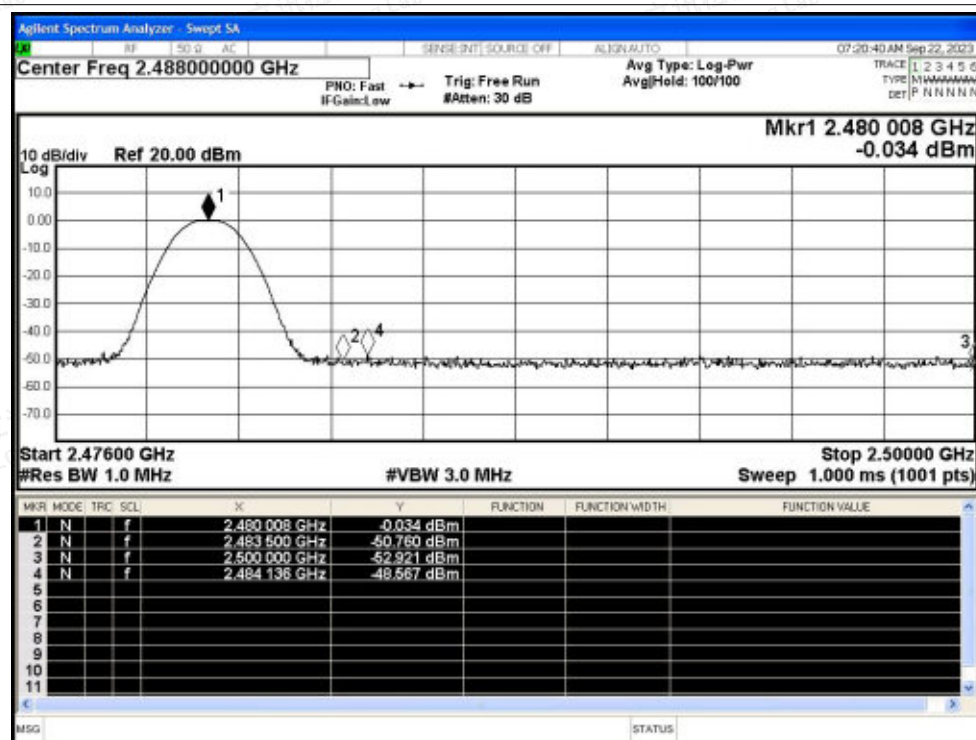
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



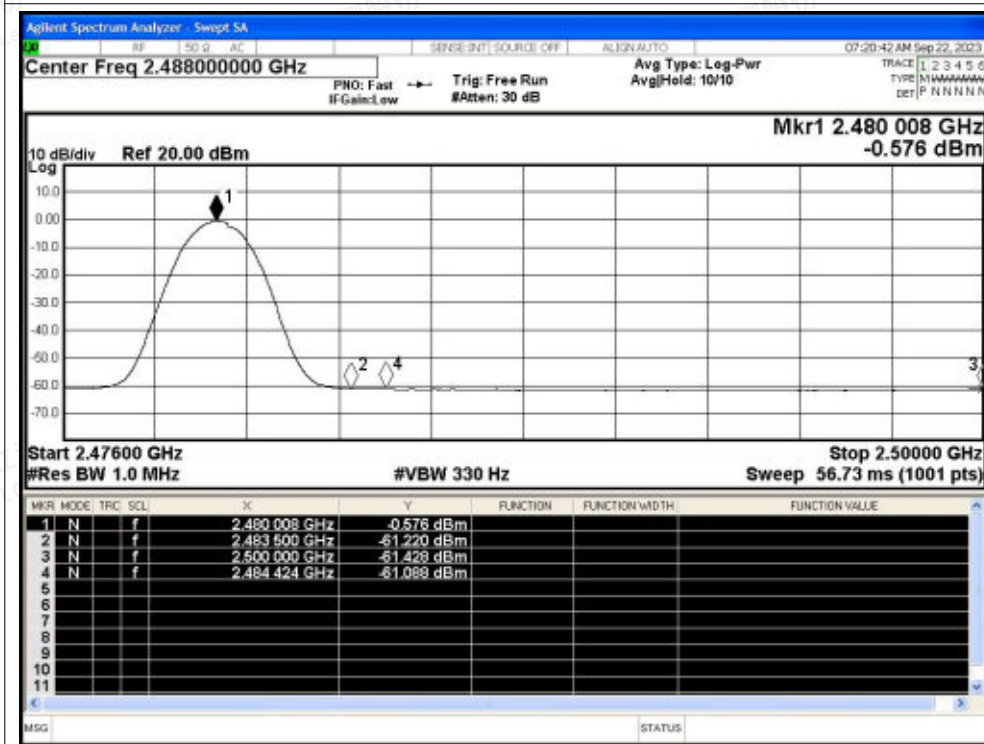
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



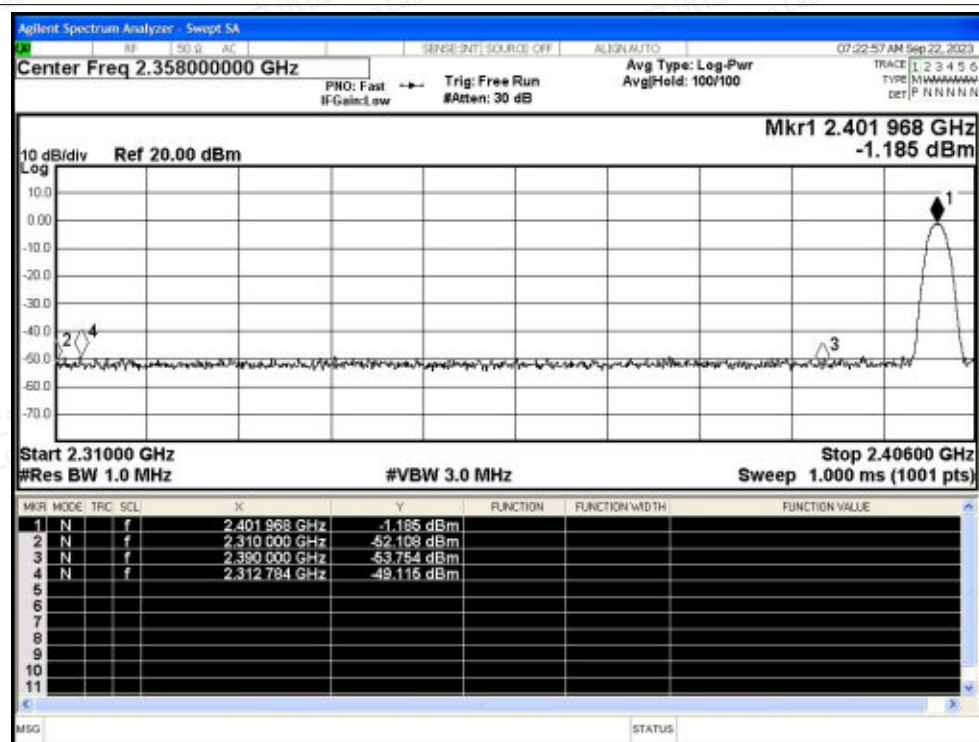
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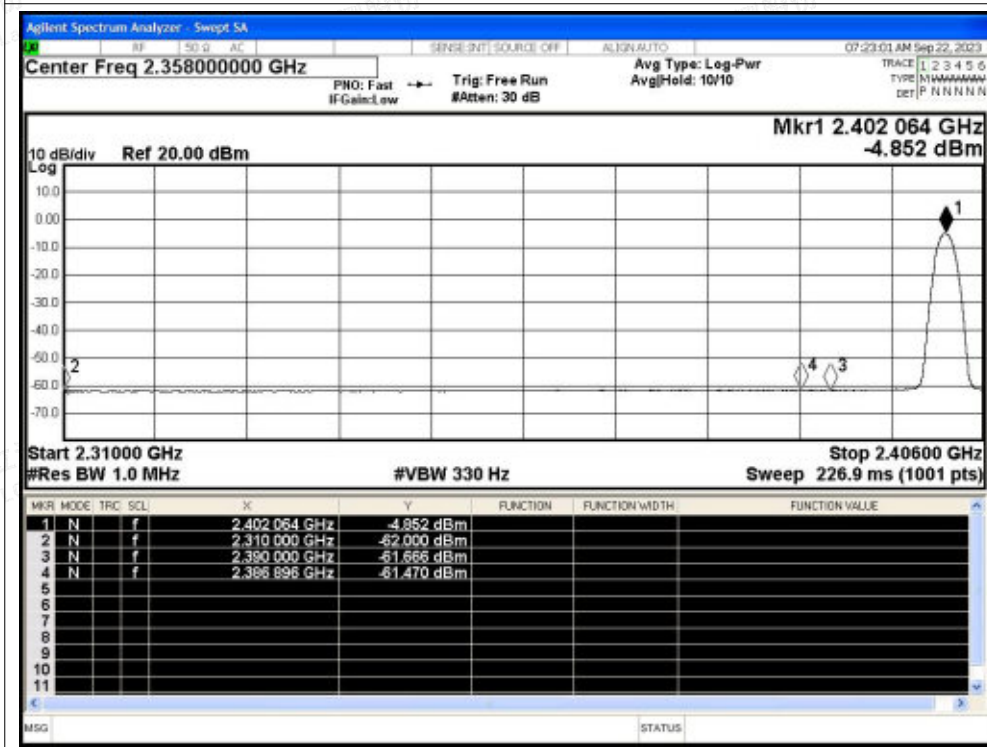
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

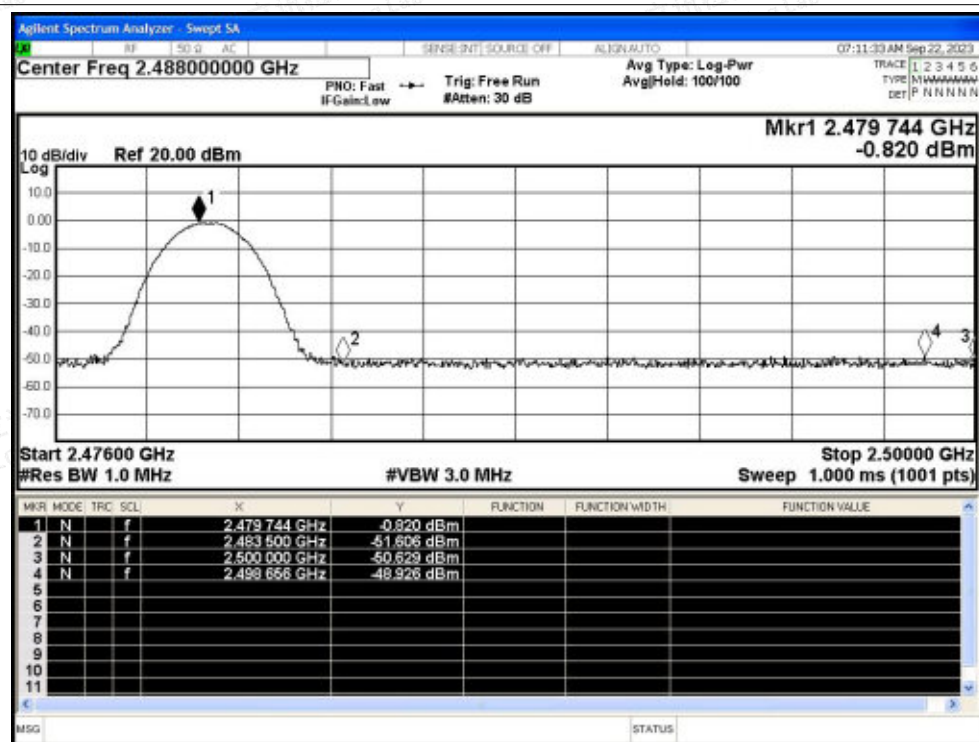


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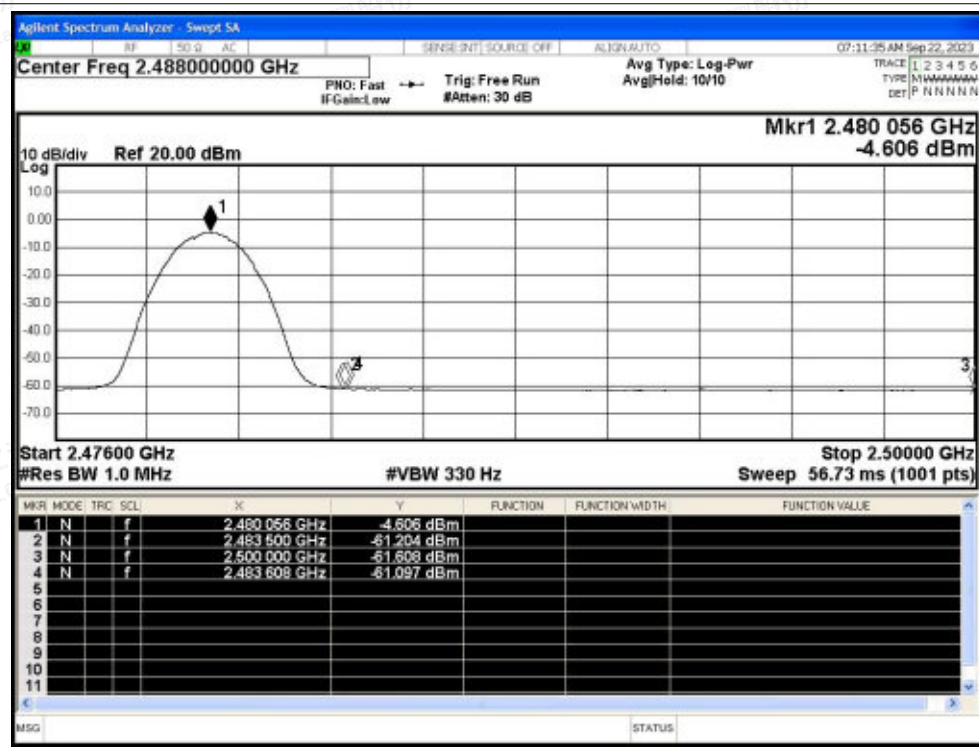




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

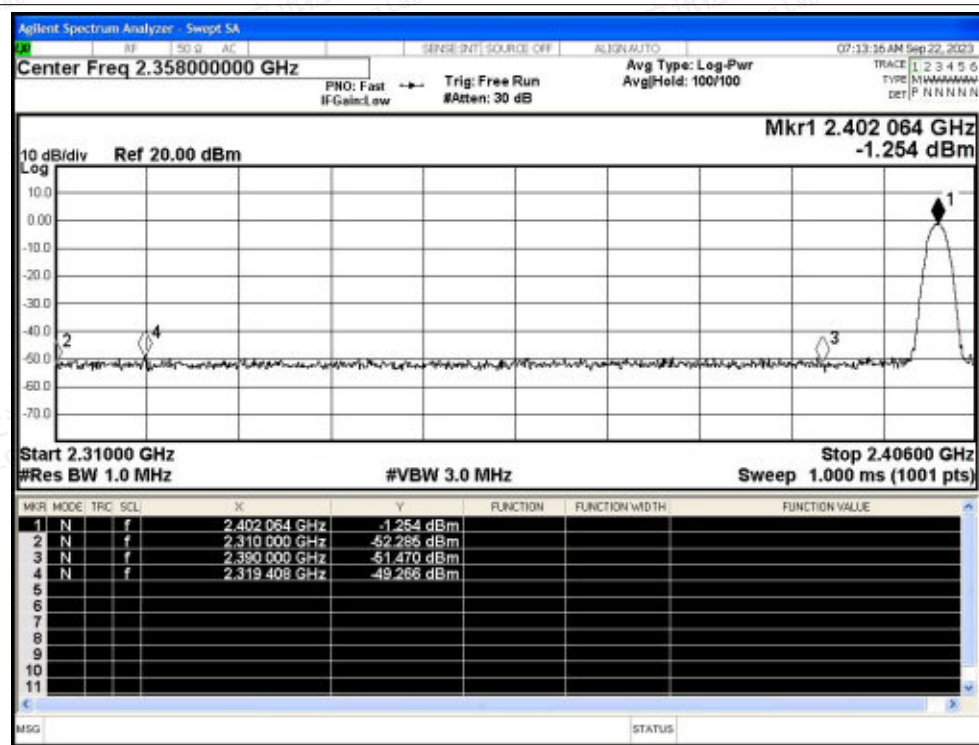
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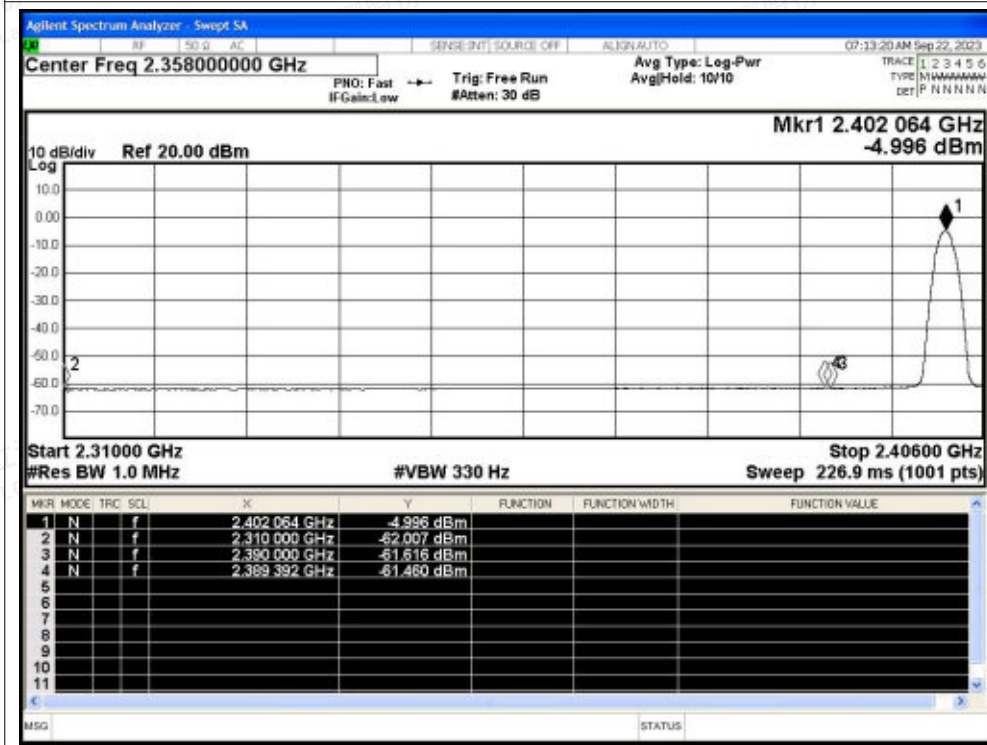
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

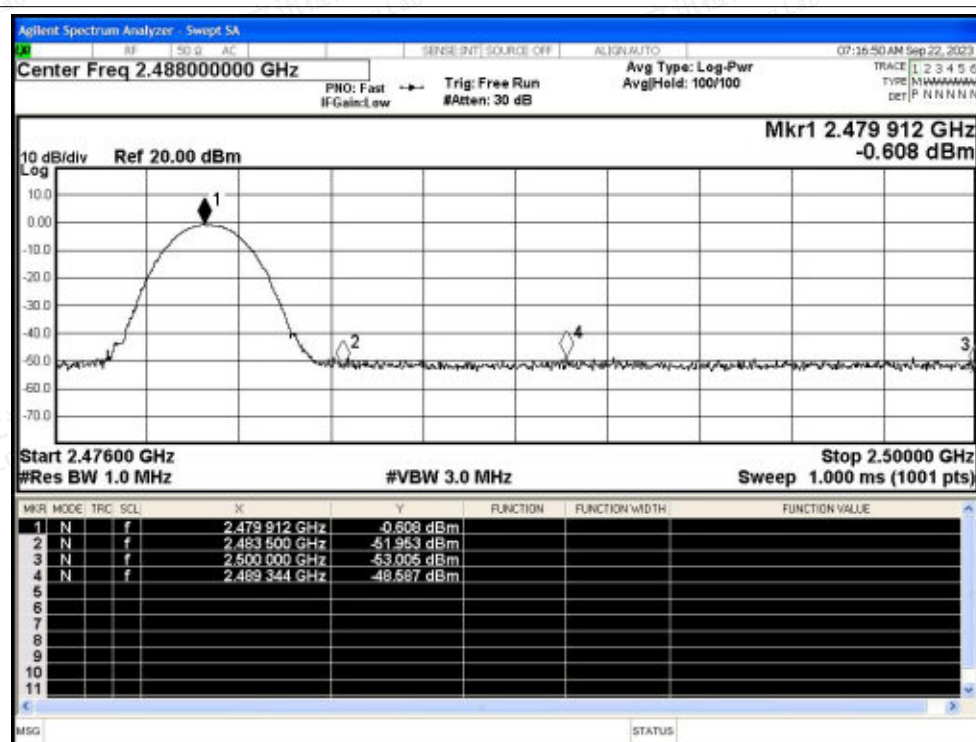


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

