

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Earbuds M1

Test Model: XPEJ005



立讯检测股份
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Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Li Huan



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A.1 -20dB Bandwidth

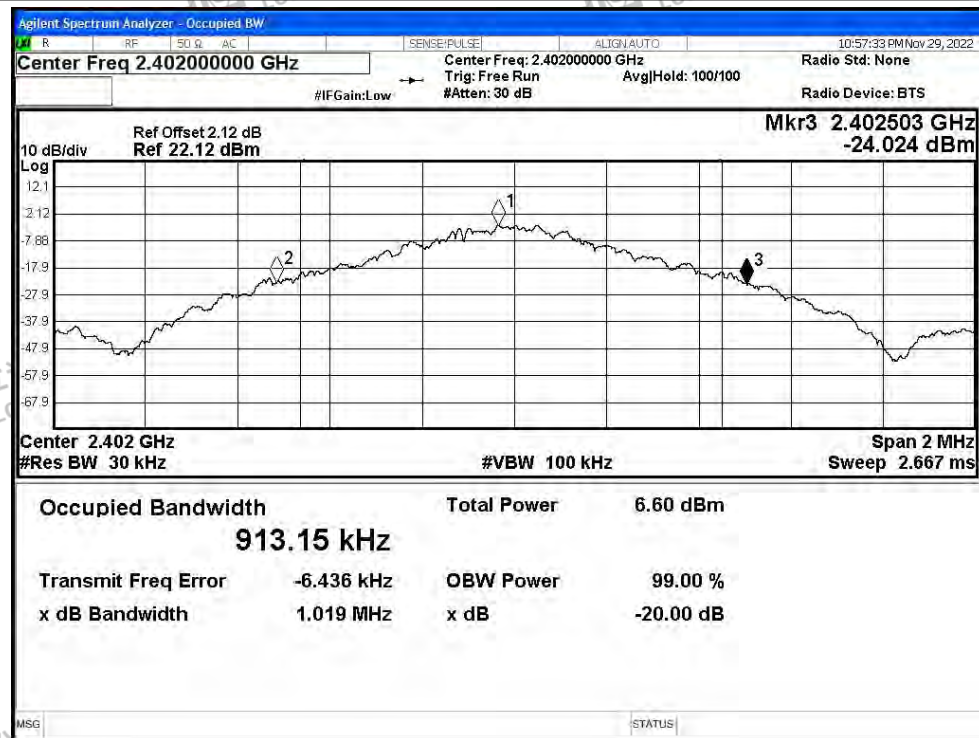
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.019	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.968	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.975	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.278	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.281	N/A	Pass



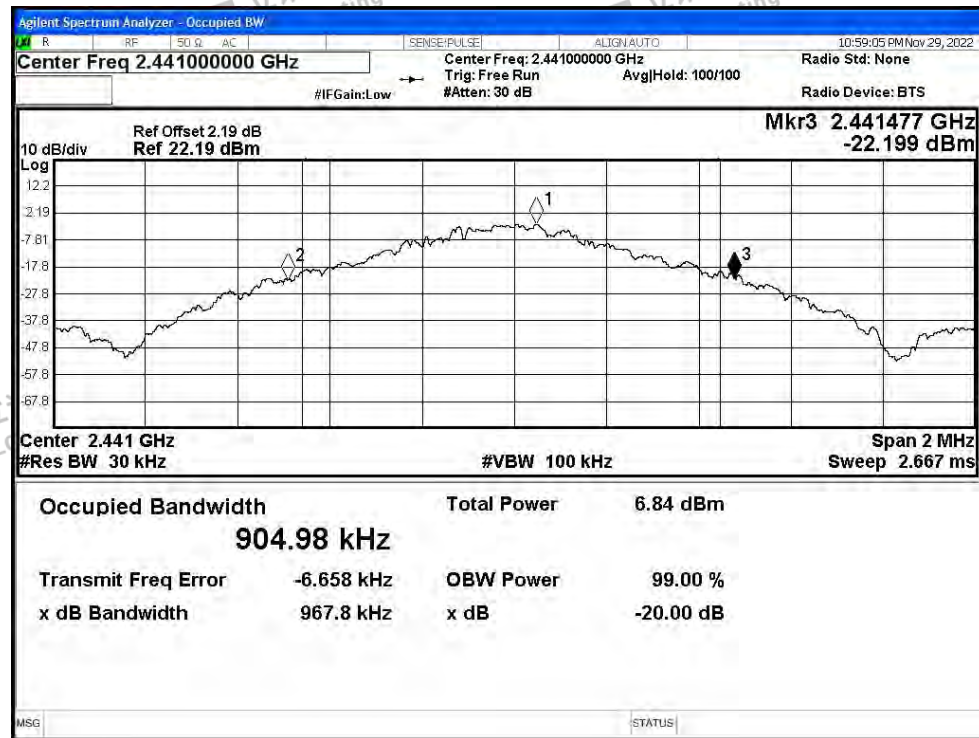


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

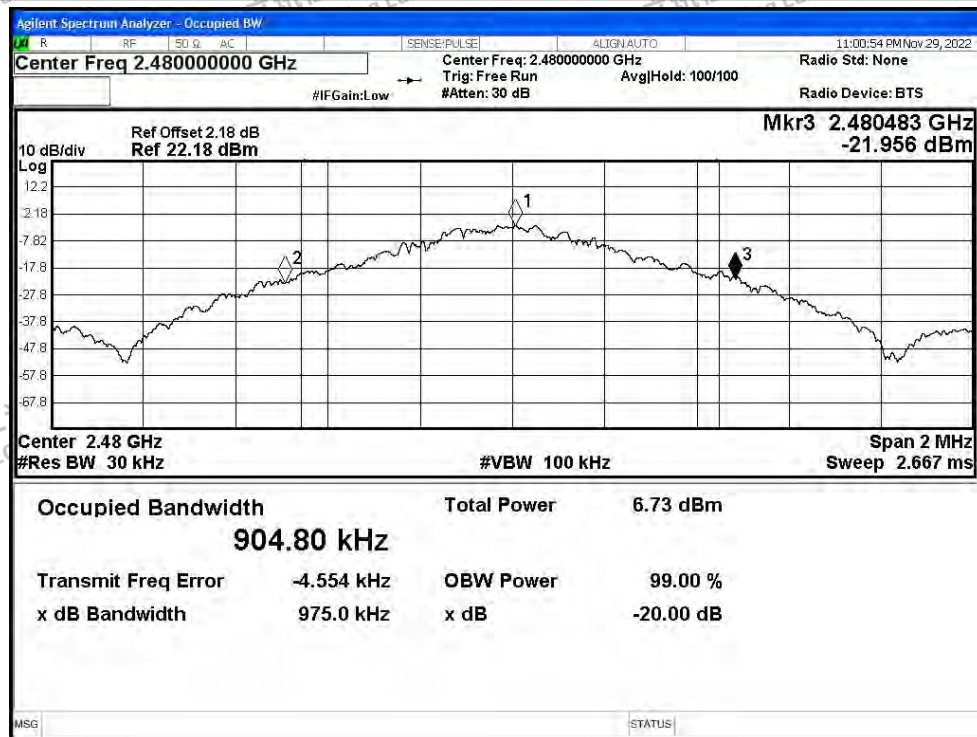


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

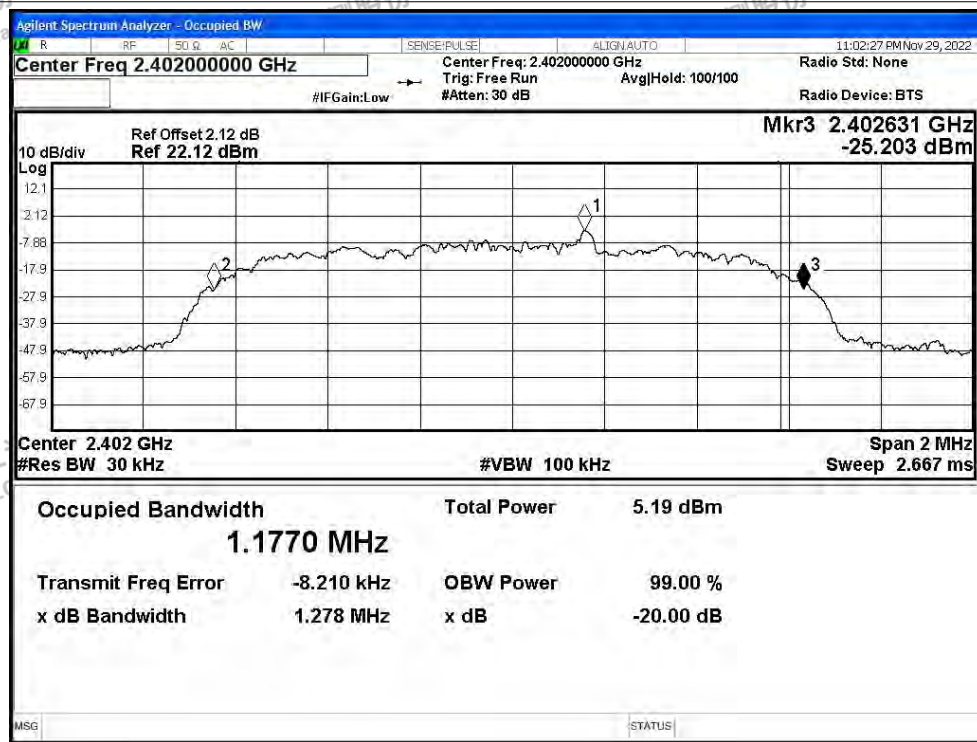




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

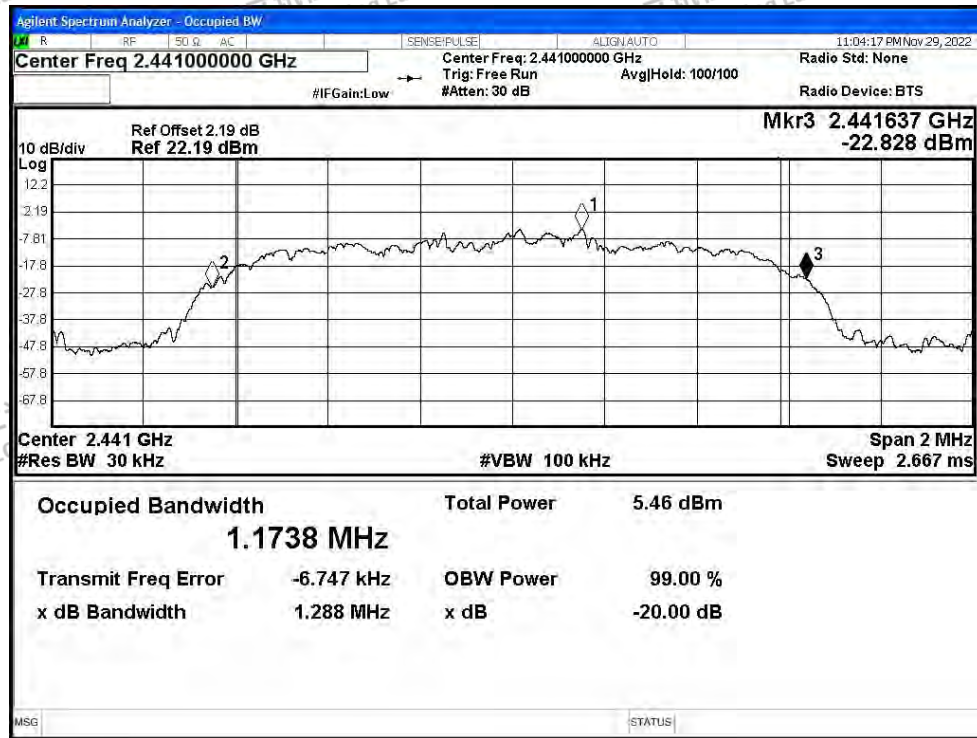


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

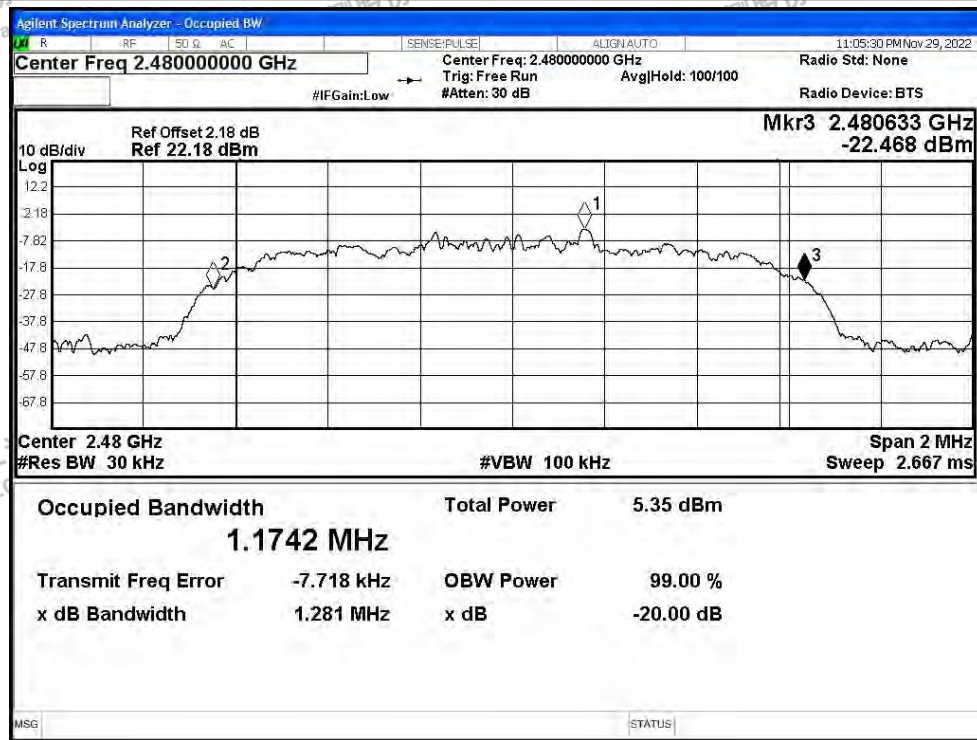




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

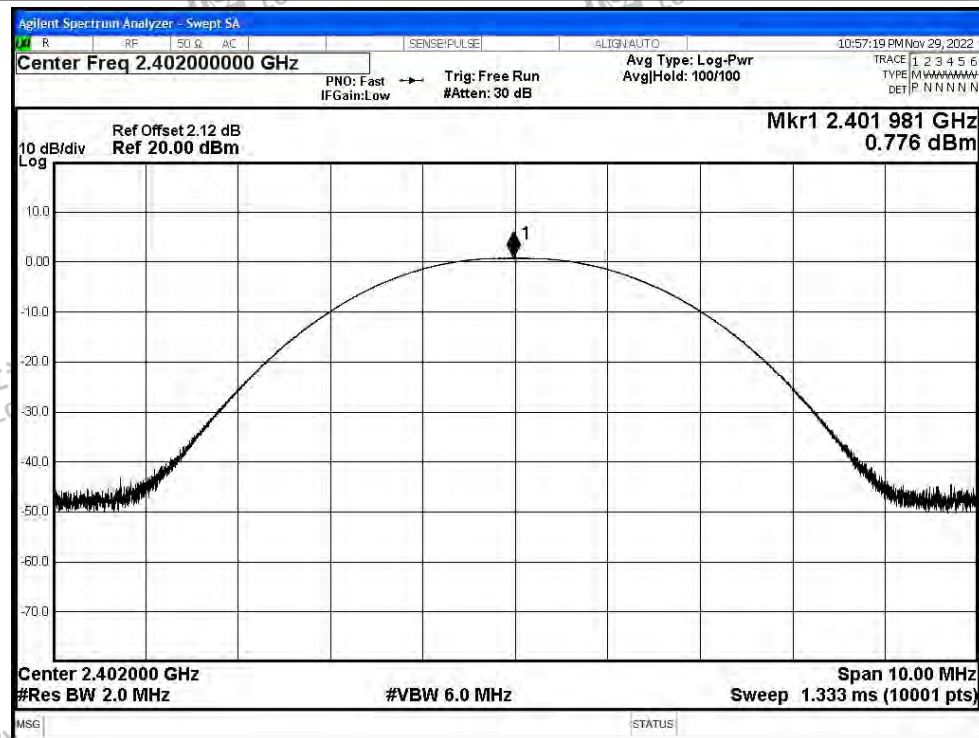
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.78	21	Pass
NVNT	1-DH5	2441	Ant1	0.98	21	Pass
NVNT	1-DH5	2480	Ant1	0.74	21	Pass
NVNT	2-DH5	2402	Ant1	0.59	21	Pass
NVNT	2-DH5	2441	Ant1	0.83	21	Pass
NVNT	2-DH5	2480	Ant1	0.53	21	Pass



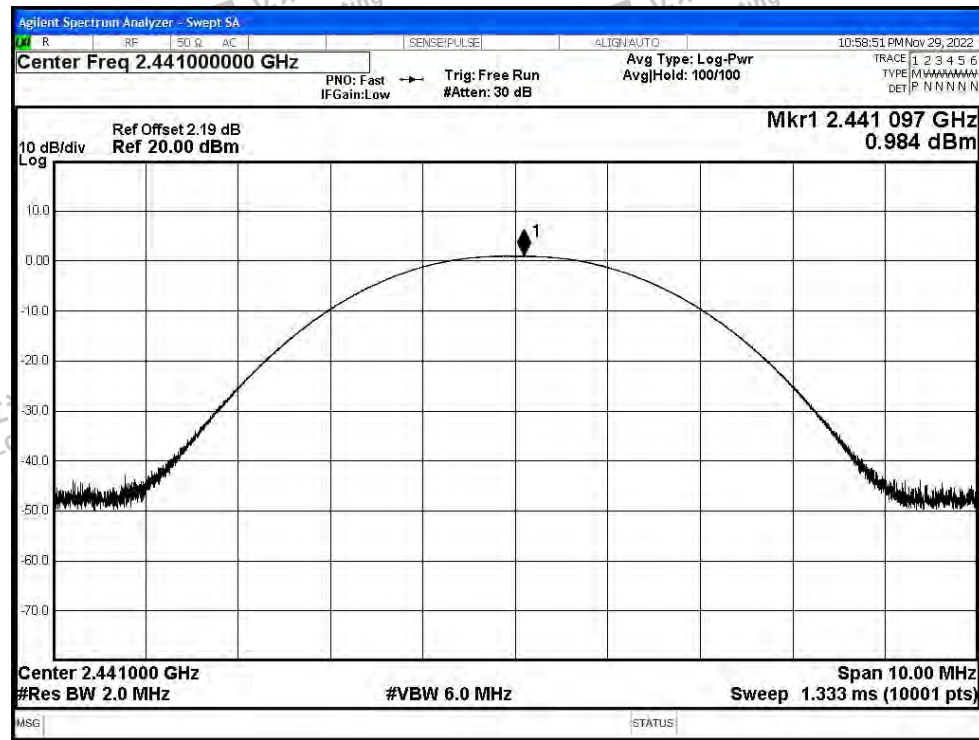


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

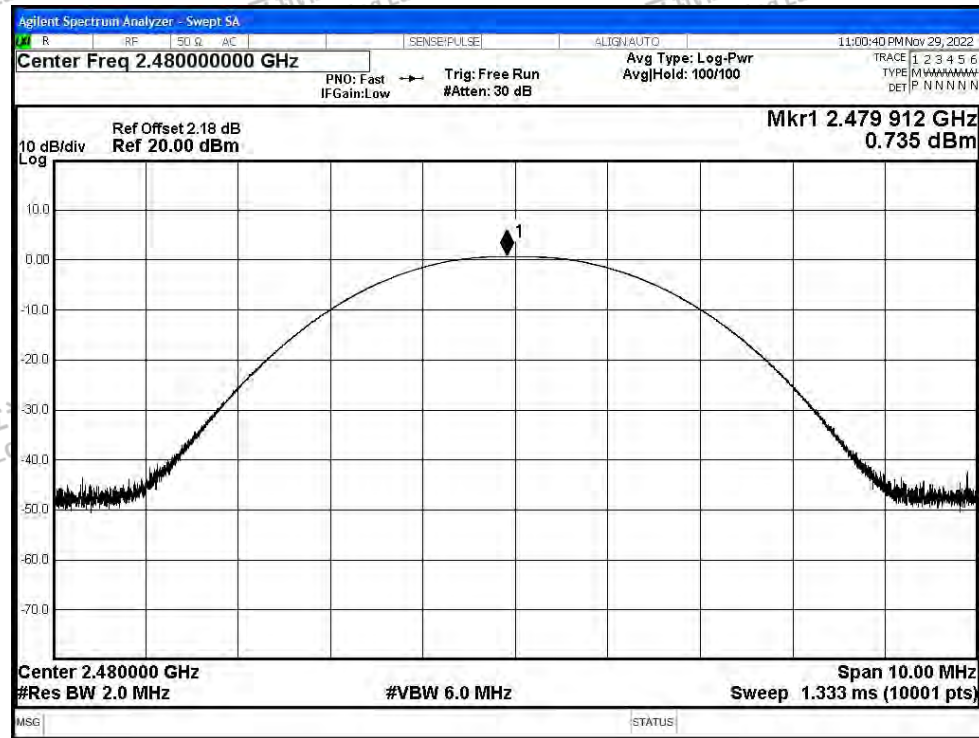


Power NVNT 1-DH5 2441MHz Ant1

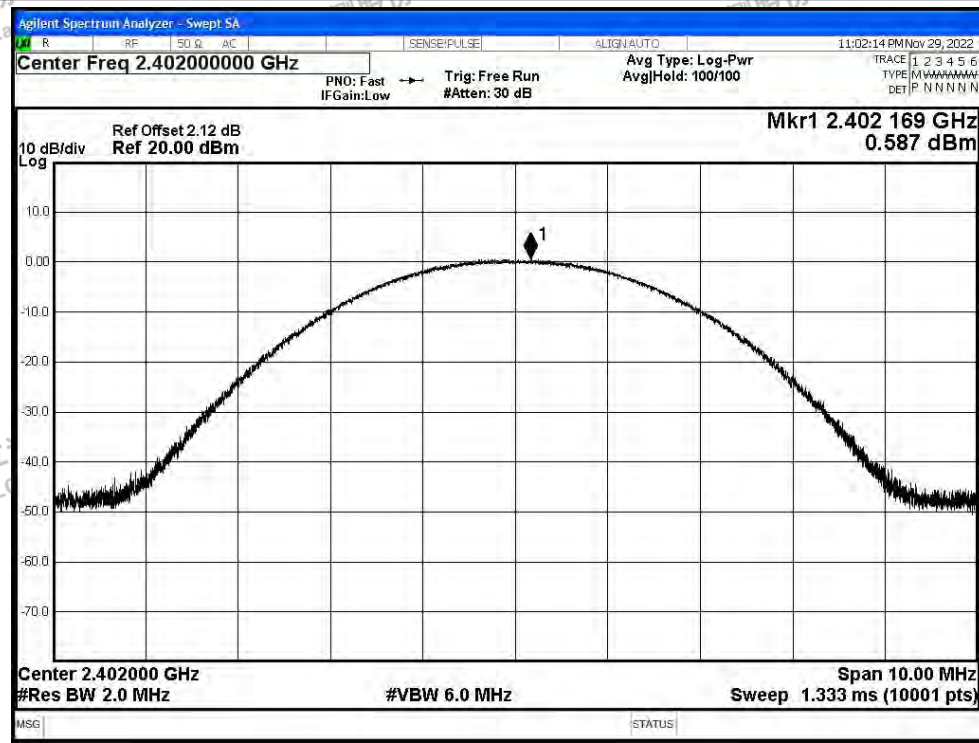




Power NVNT 1-DH5 2480MHz Ant1

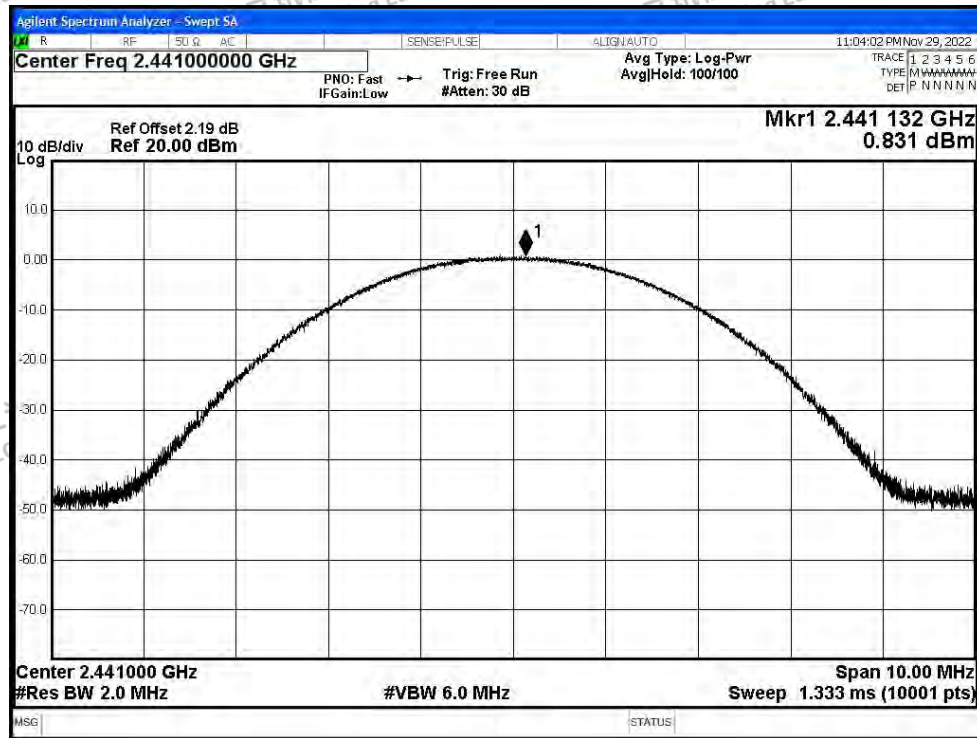


Power NVNT 2-DH5 2402MHz Ant1

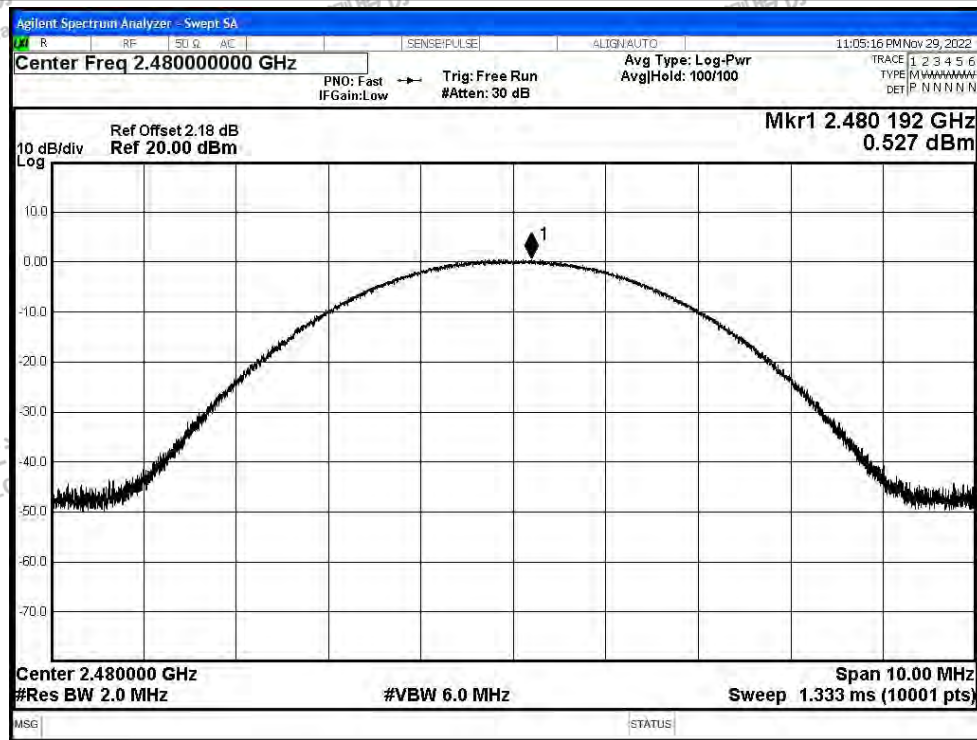




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.966	2403.002	1.036	0.680	Pass
NVNT	2-DH5	Ant1	2402.16	2403.156	0.996	0.859	Pass

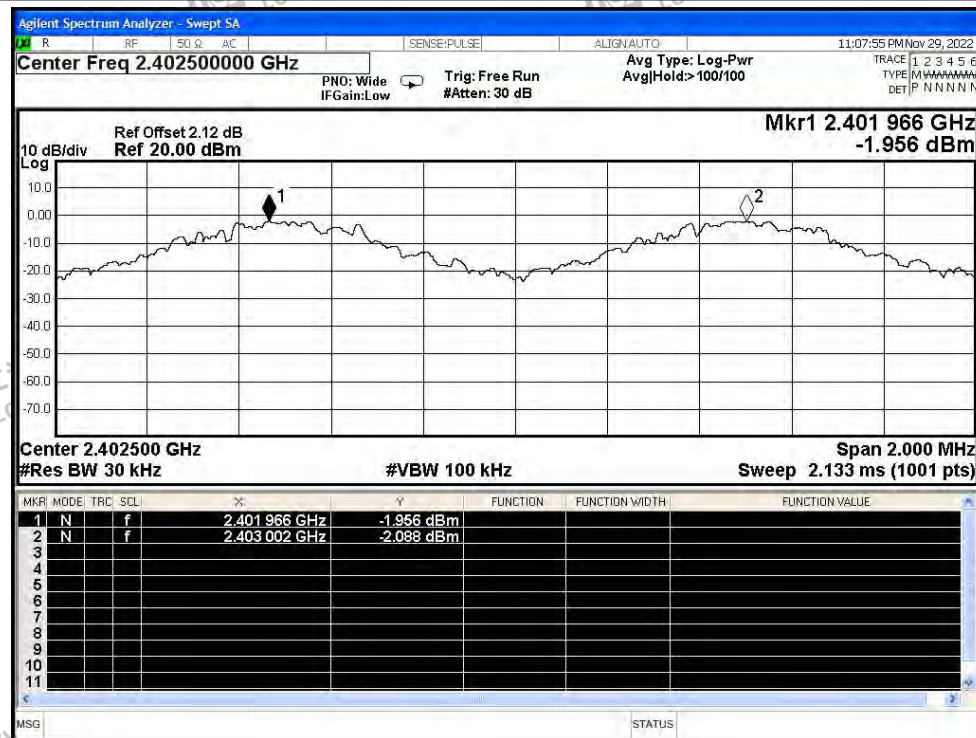


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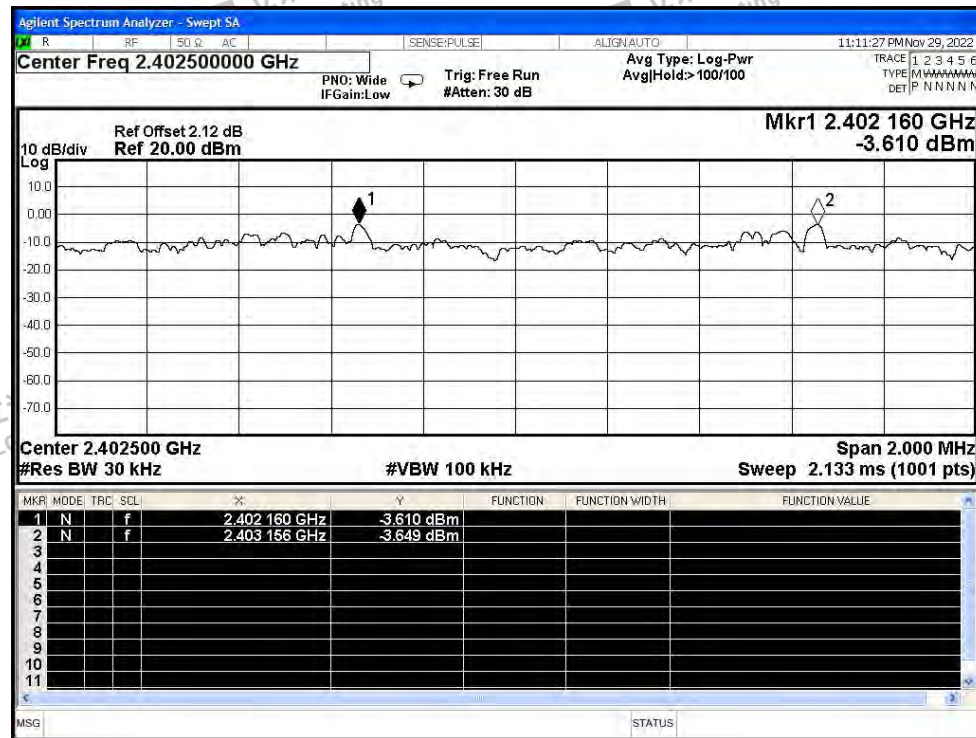


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



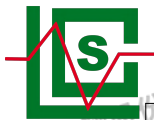


A.4 Dwell Time

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	2.882	331.43	115	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	291.385	101	31600	400	Pass

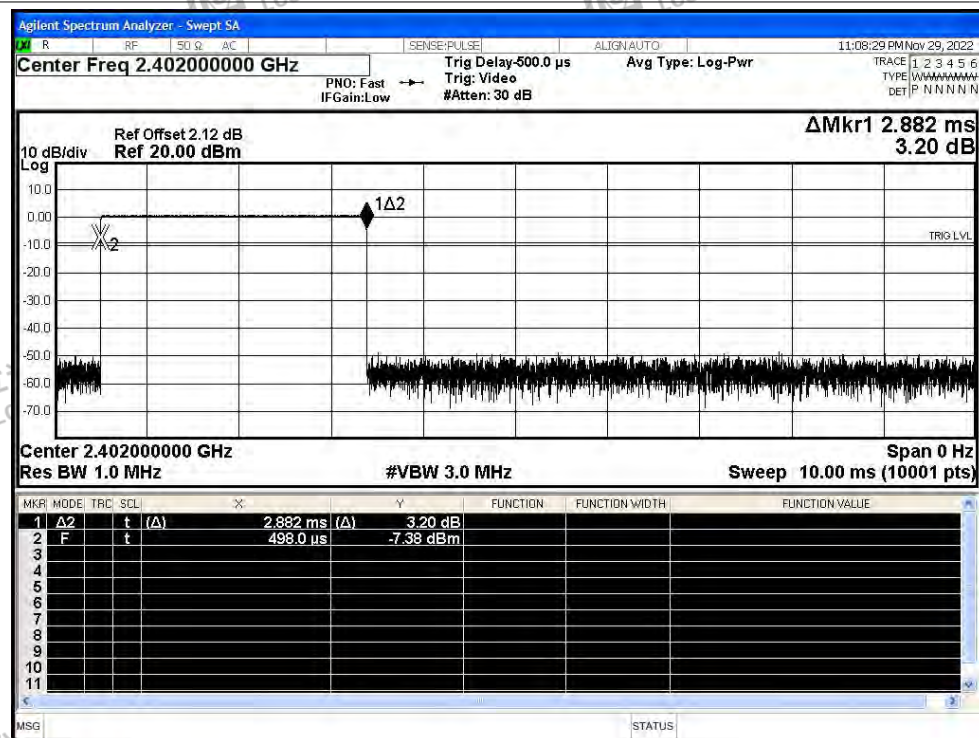


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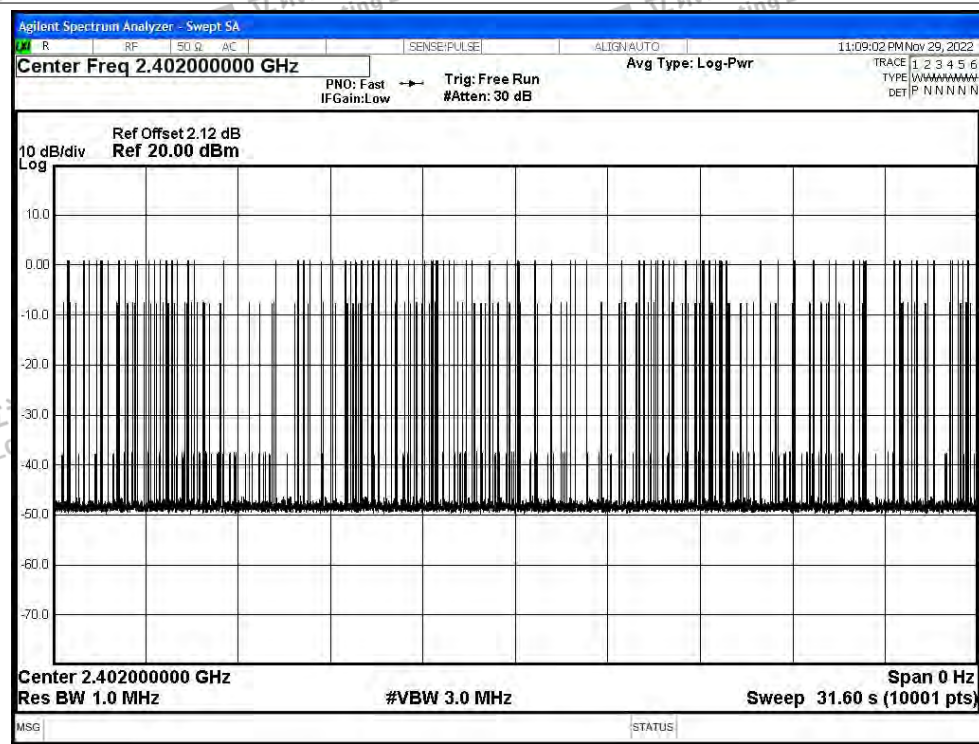


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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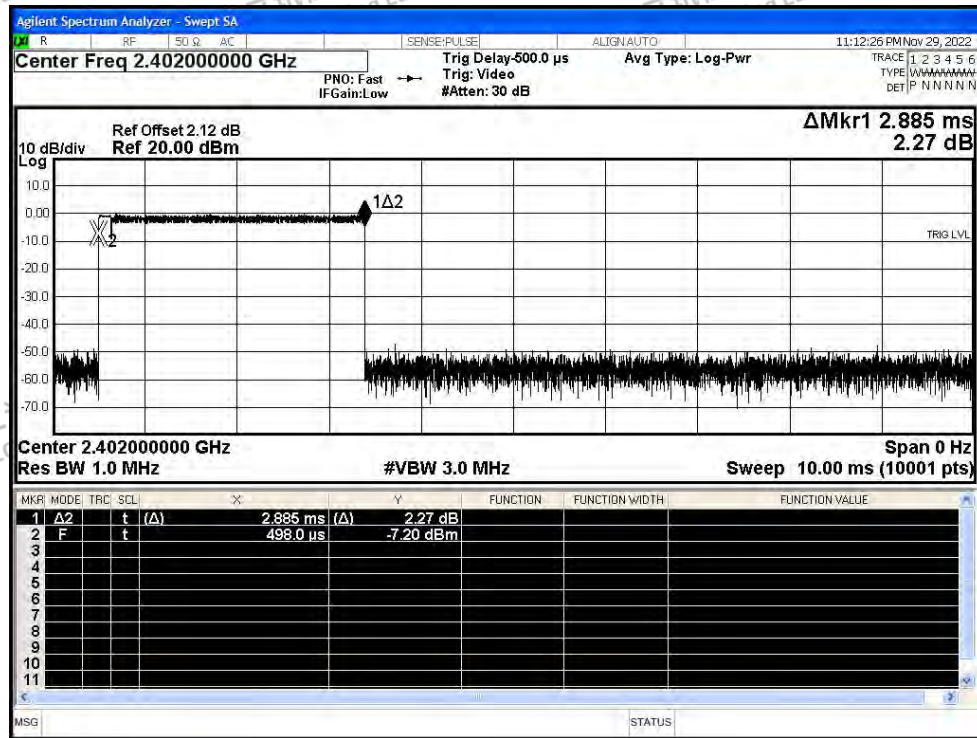
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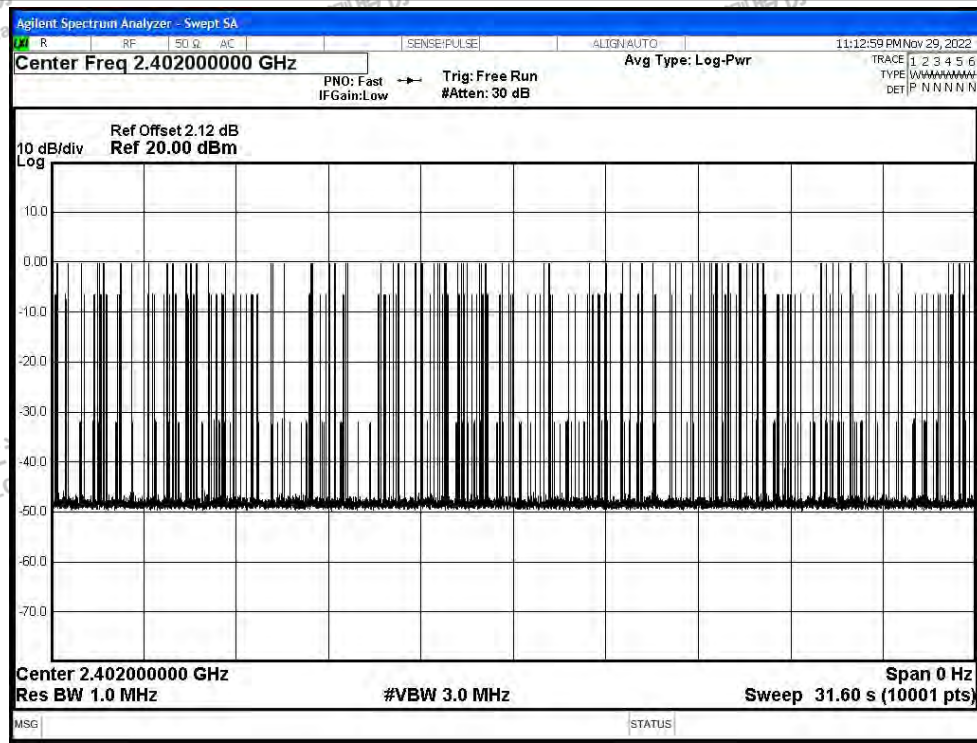
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-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

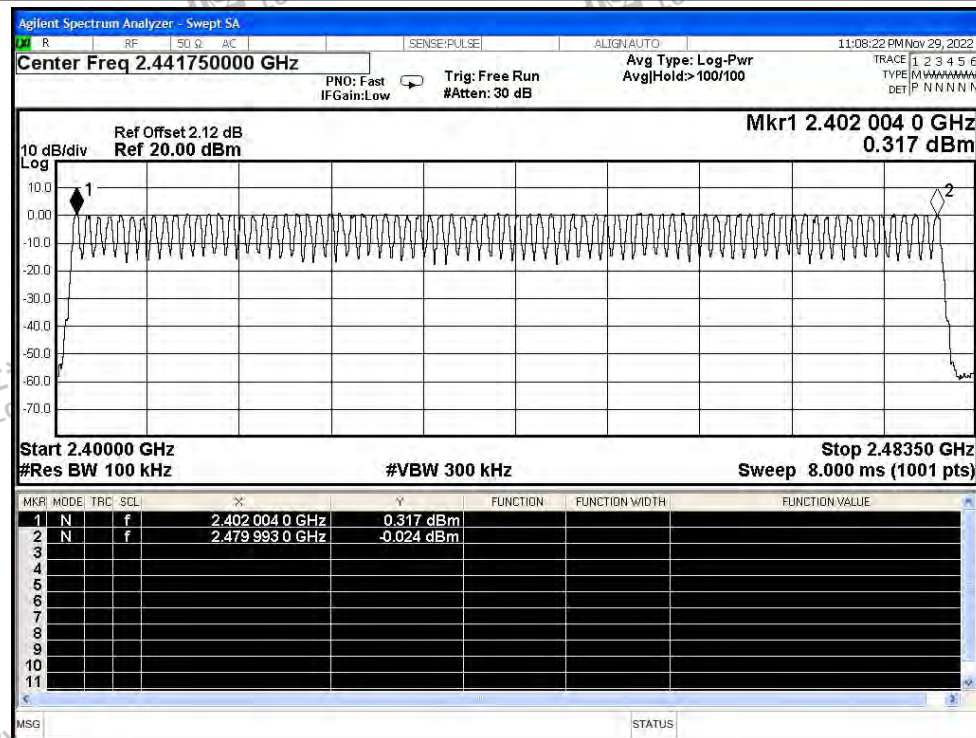


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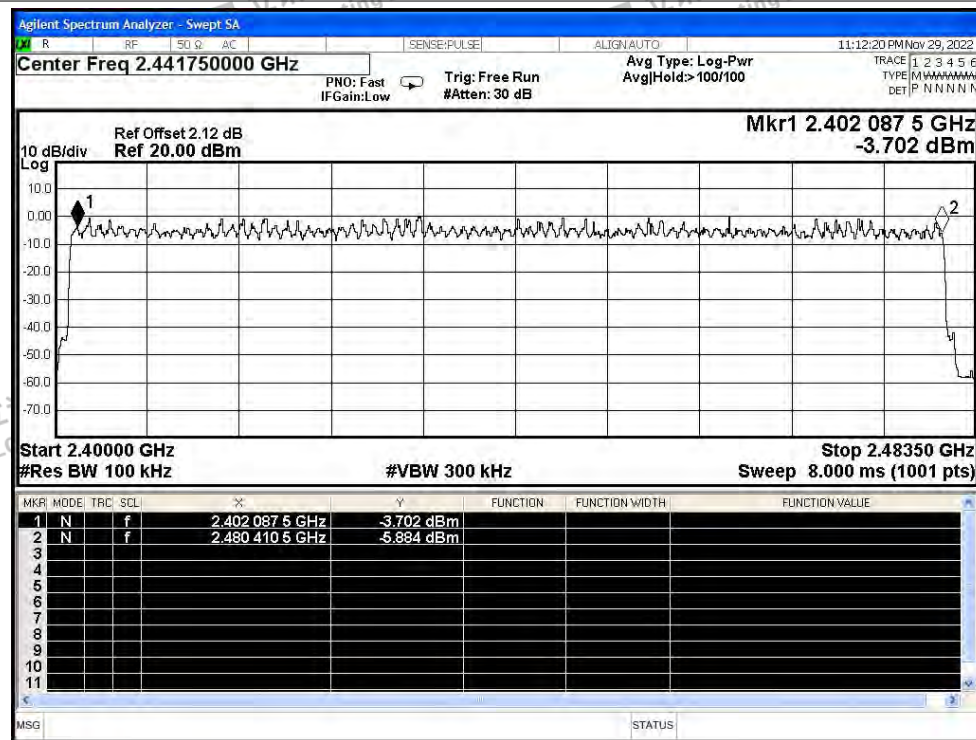


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.6 Band Edge

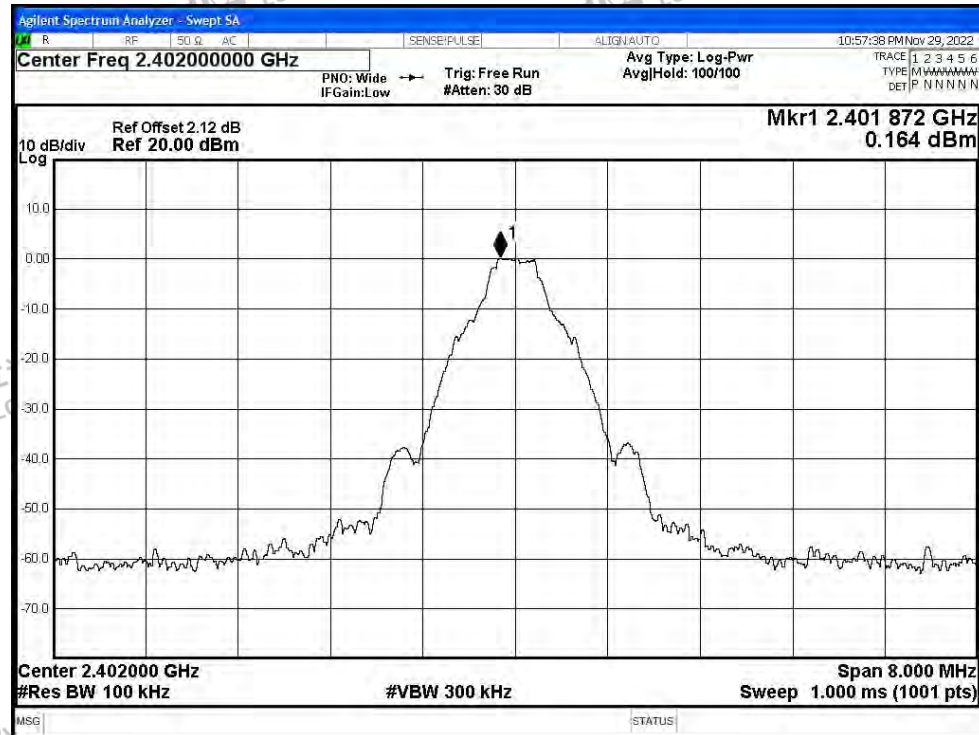
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.47	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.34	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.57	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.92	-20	Pass



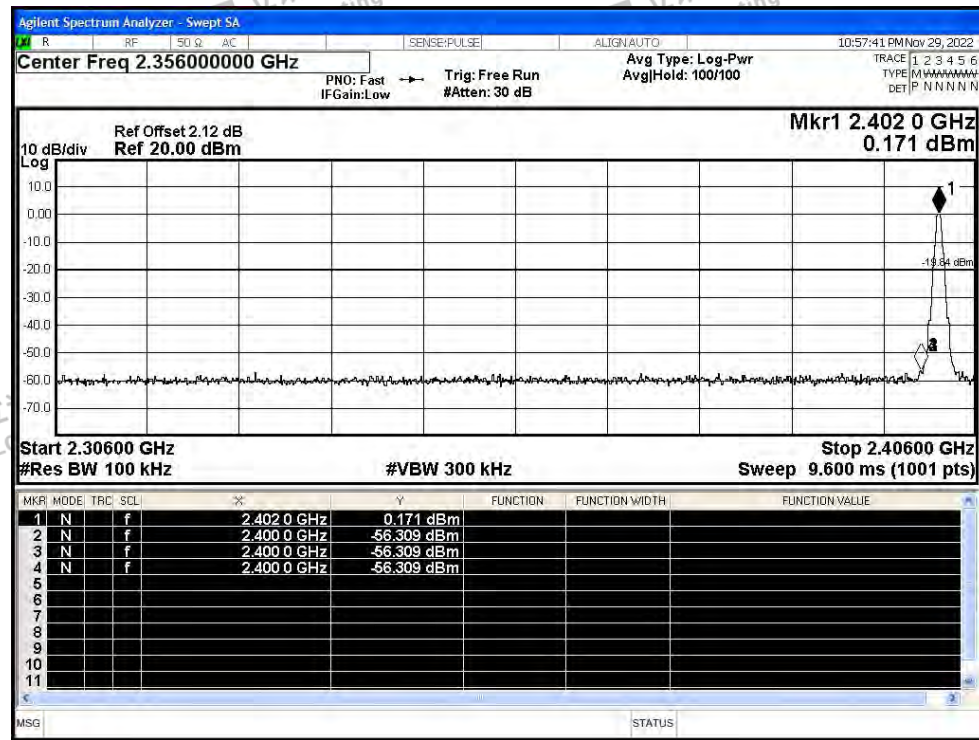


Test Graphs

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

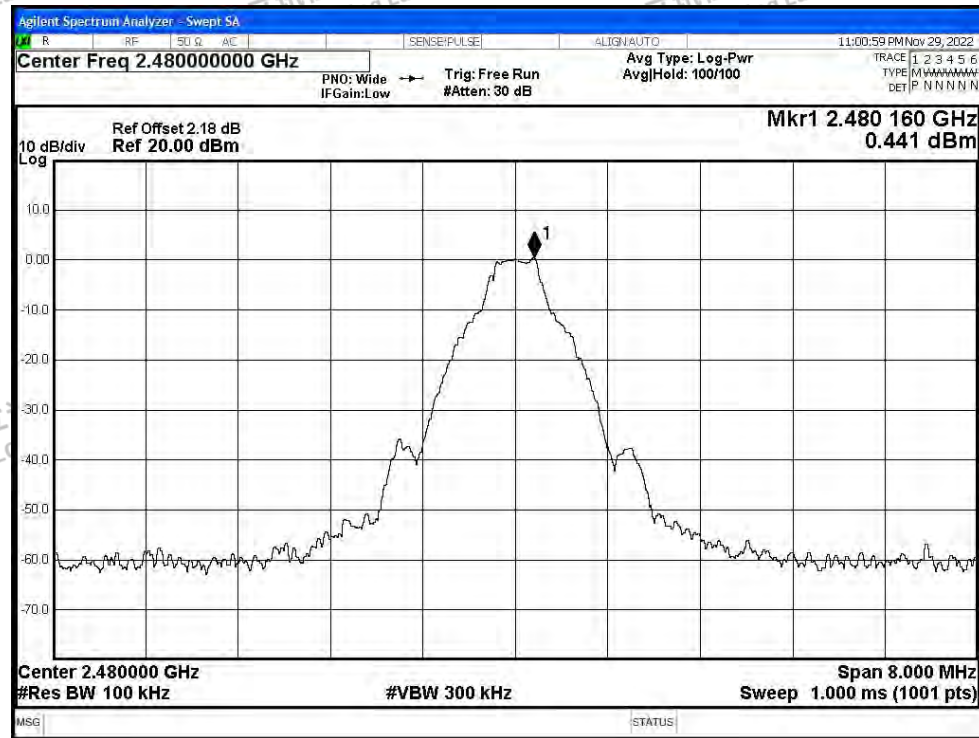


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

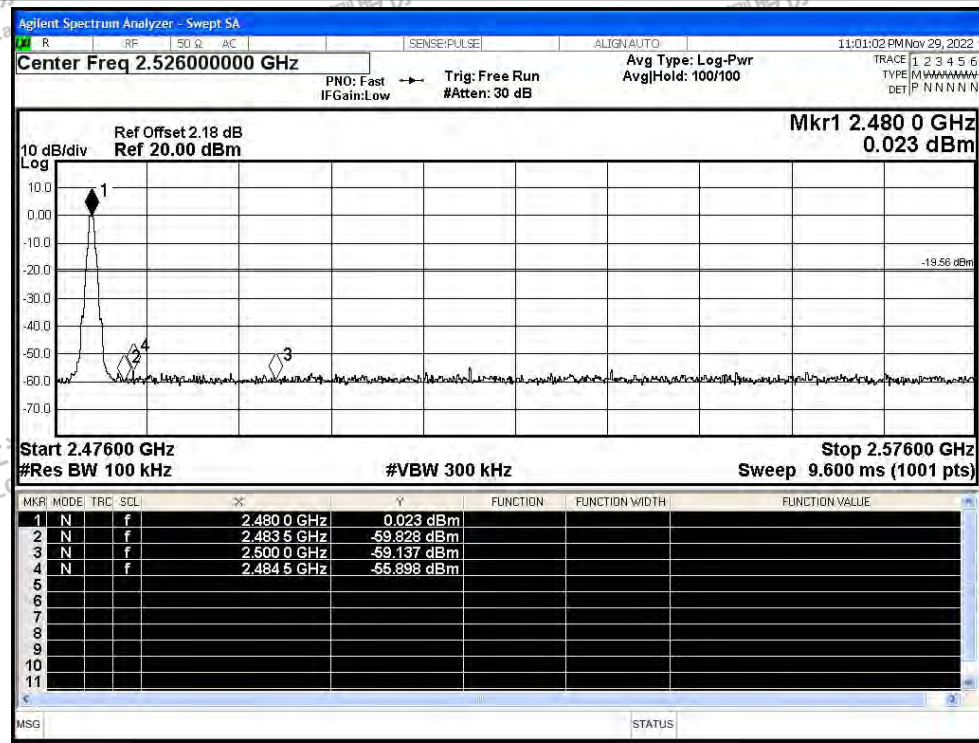




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

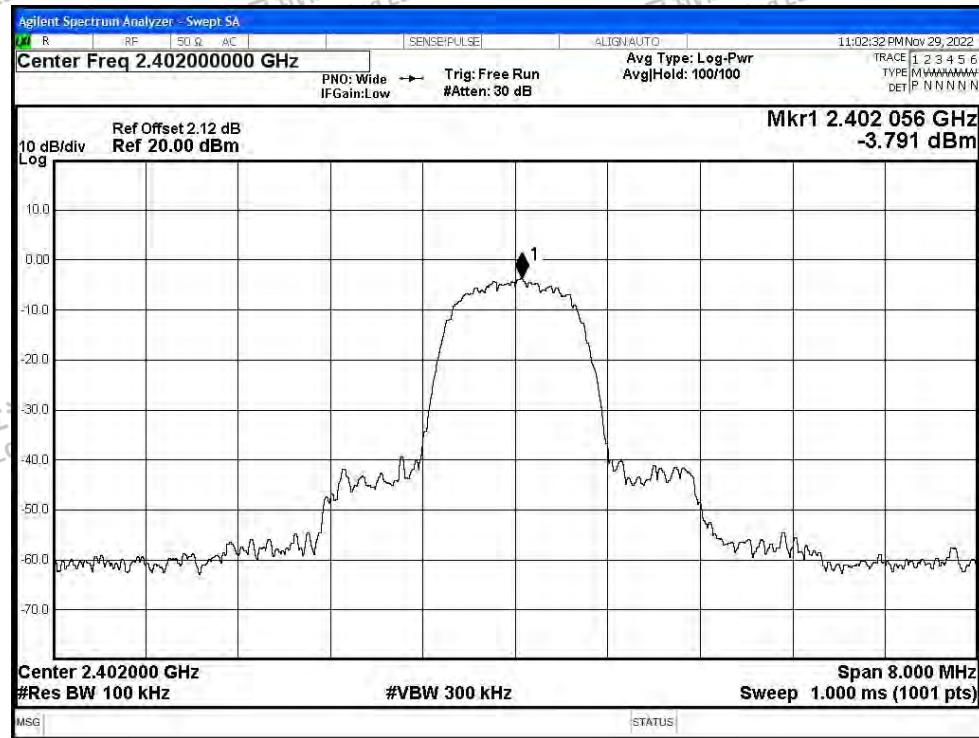


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

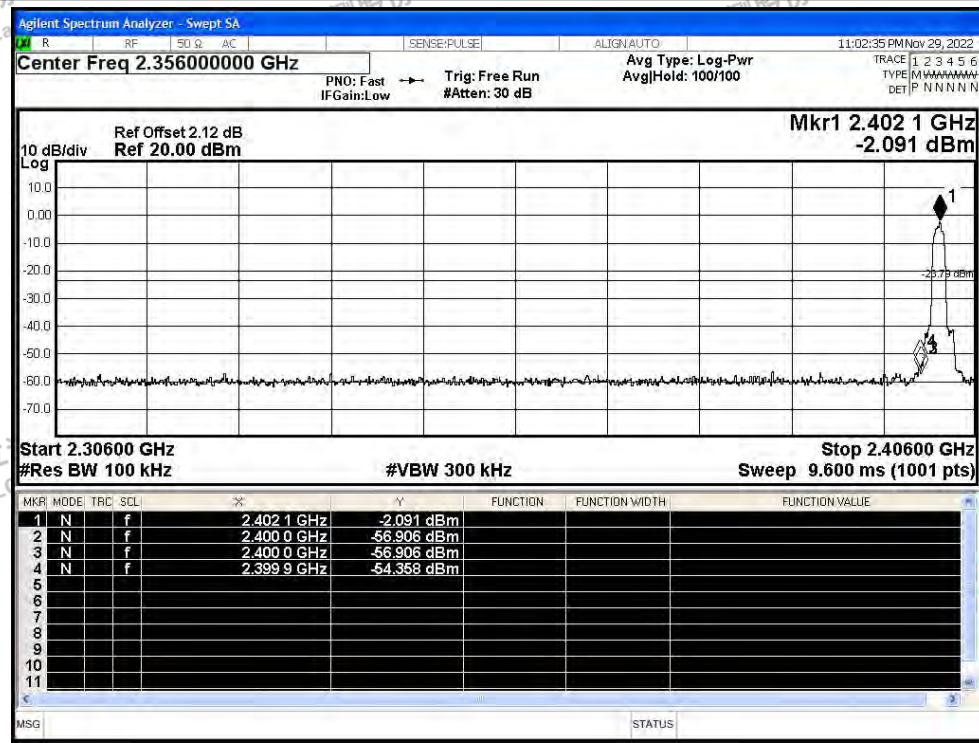




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

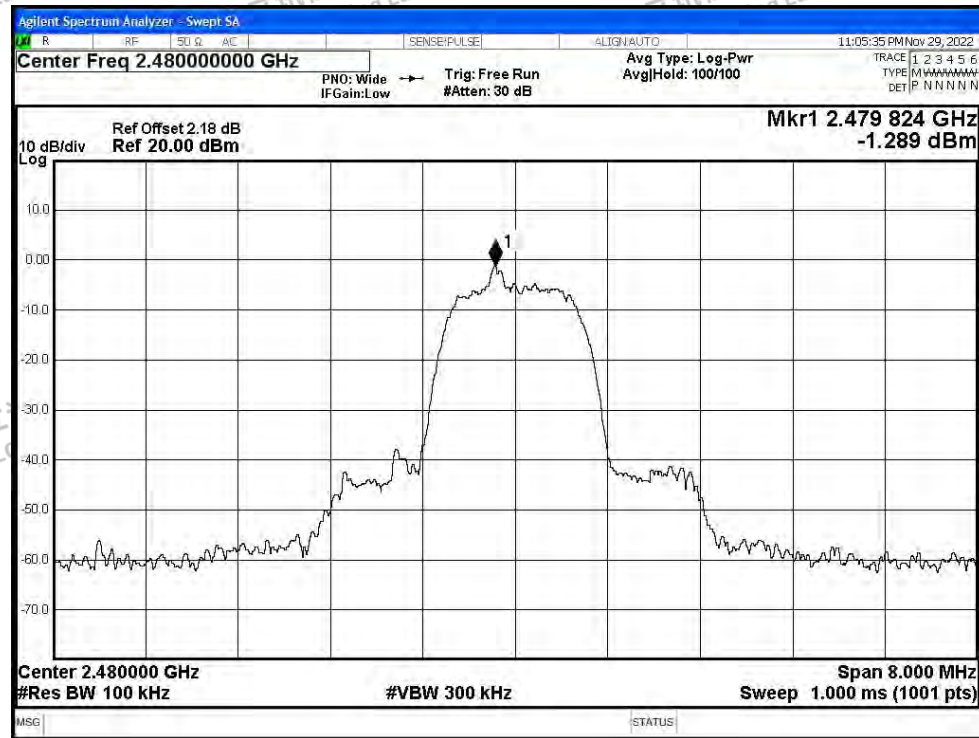


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

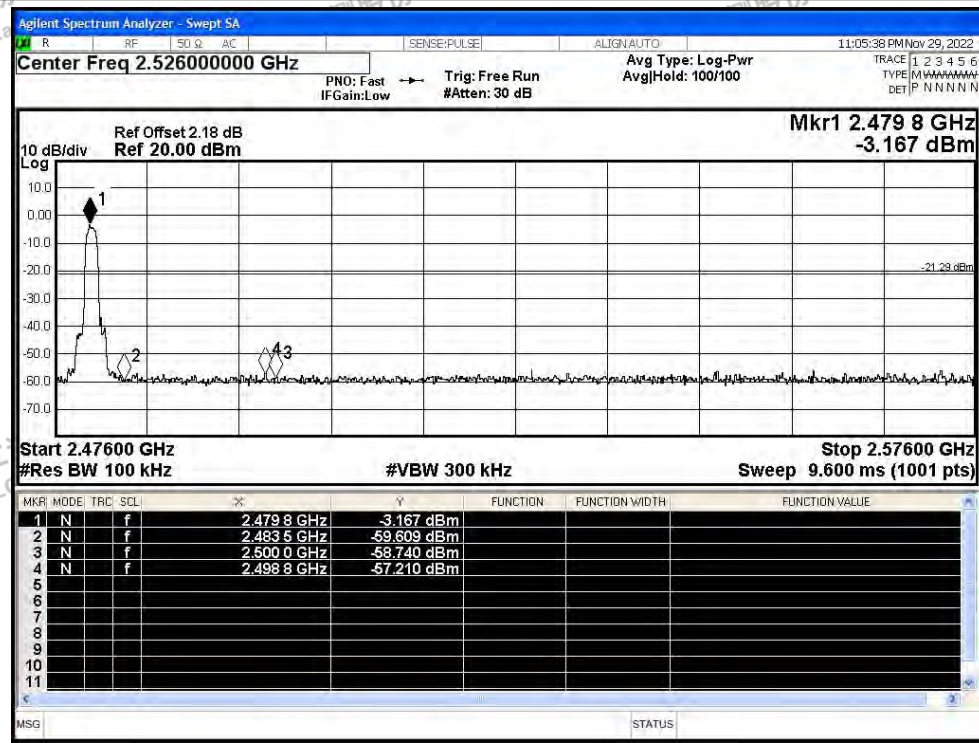




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

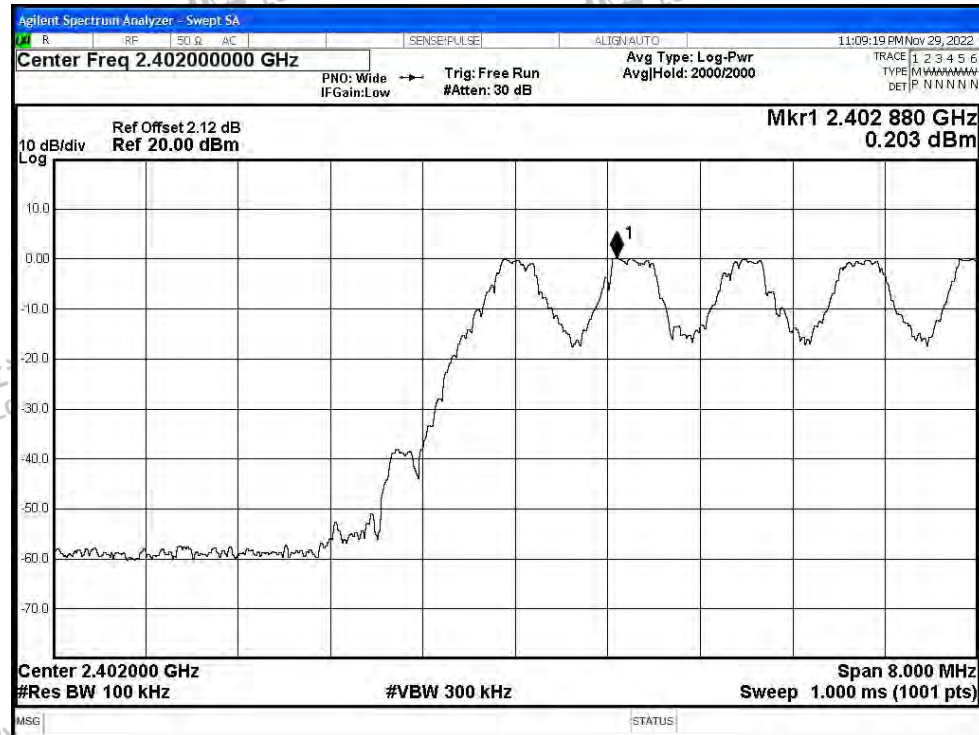
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.08	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.35	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.36	-20	Pass



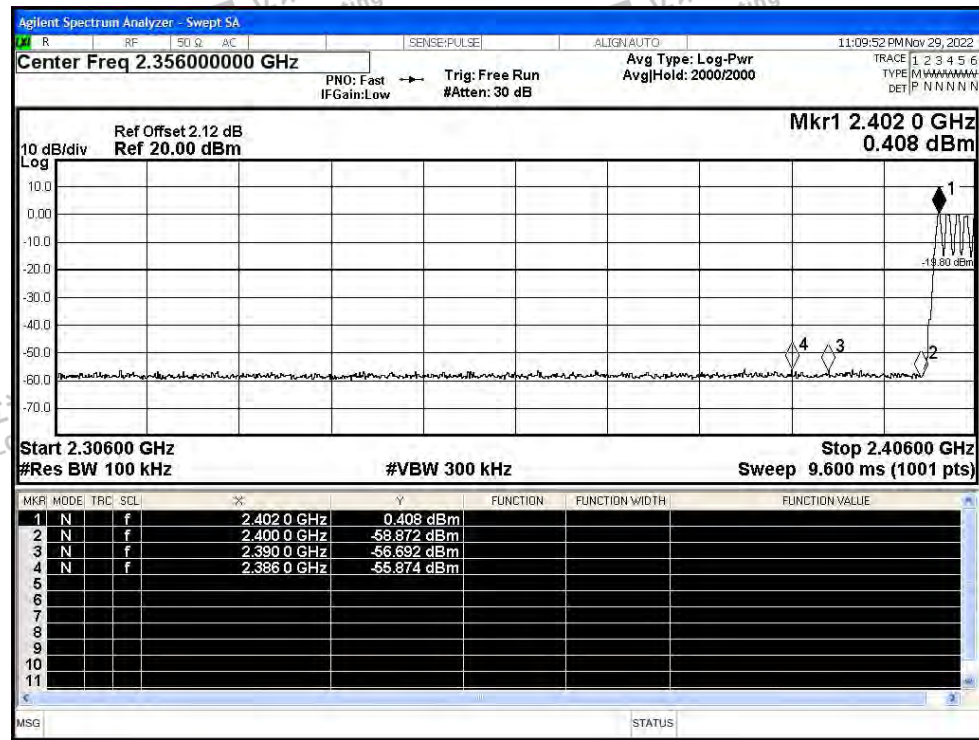


Test Graphs

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



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



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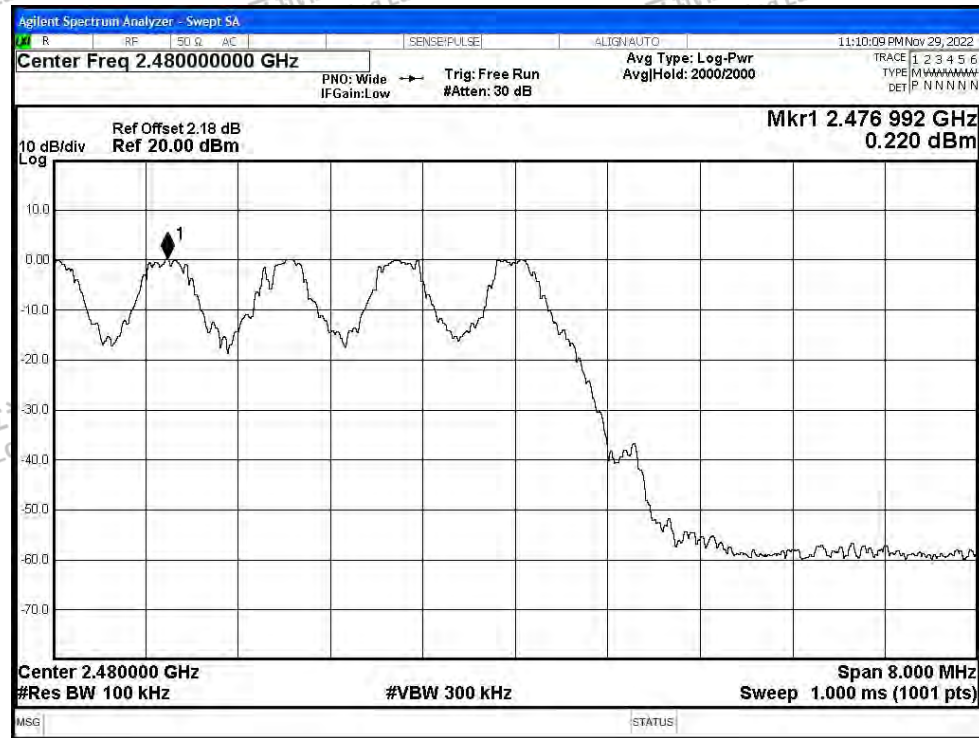
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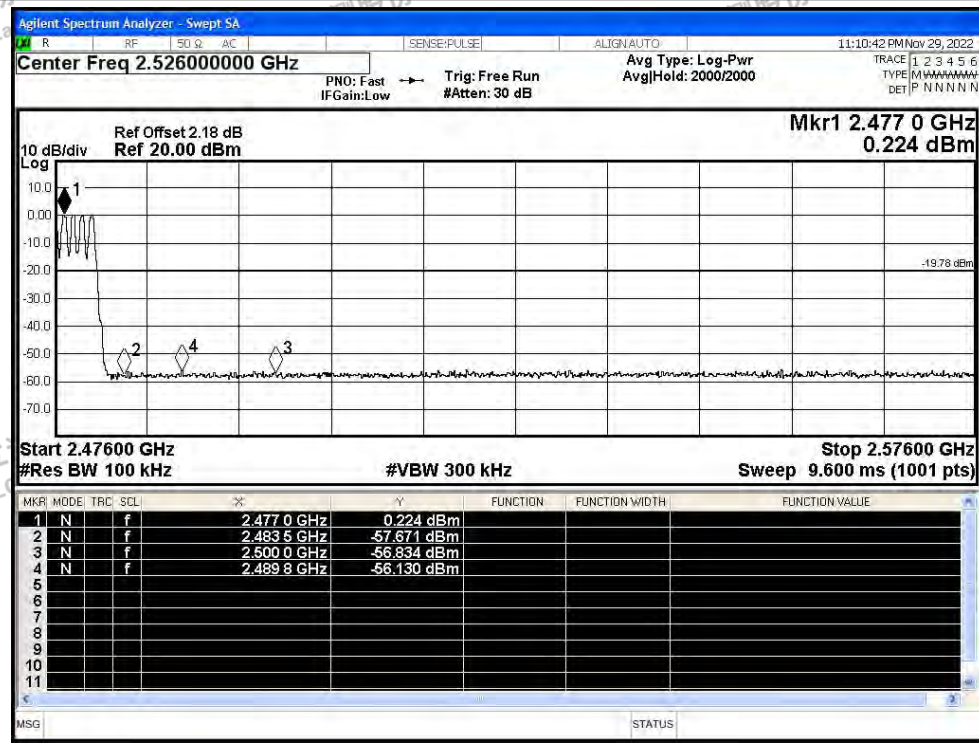
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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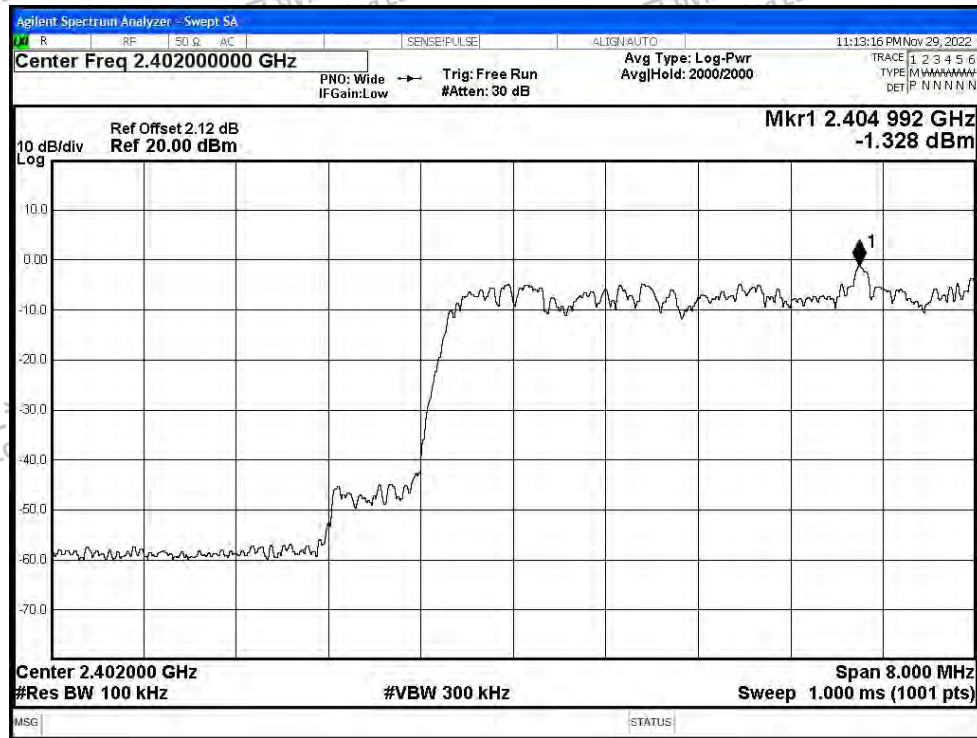
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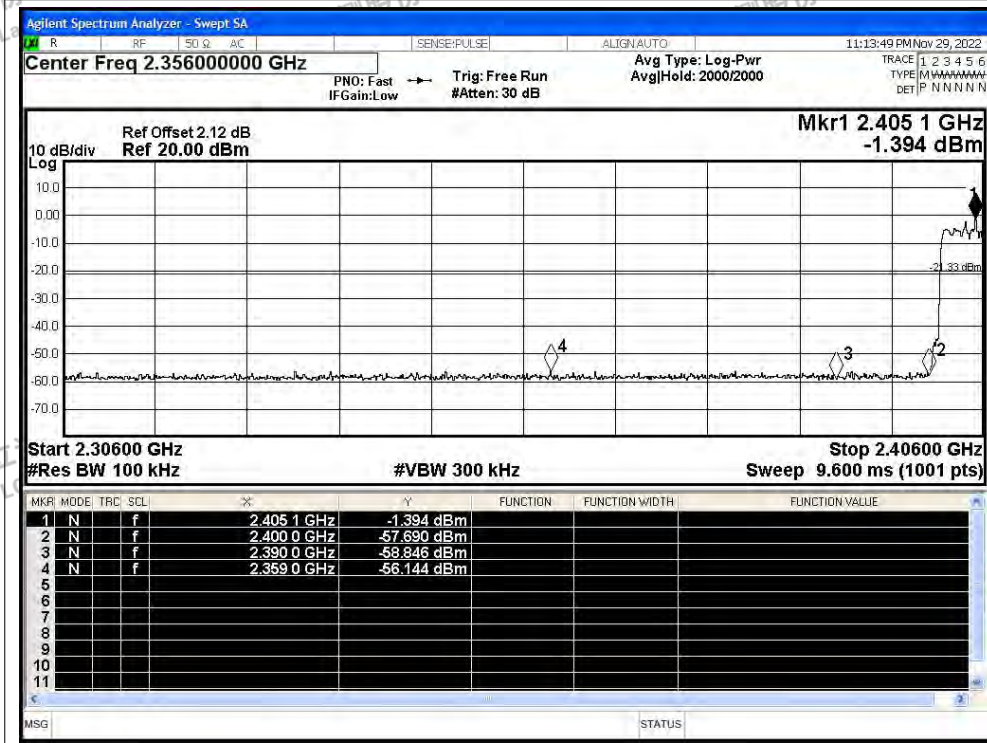
Scan code to check authenticity



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



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



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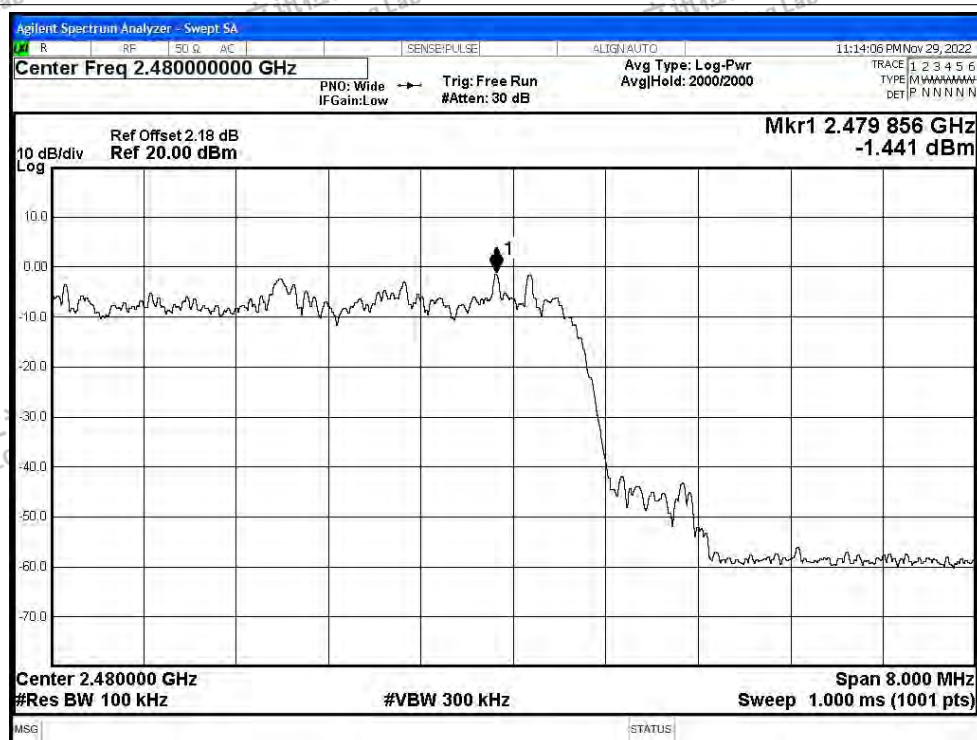
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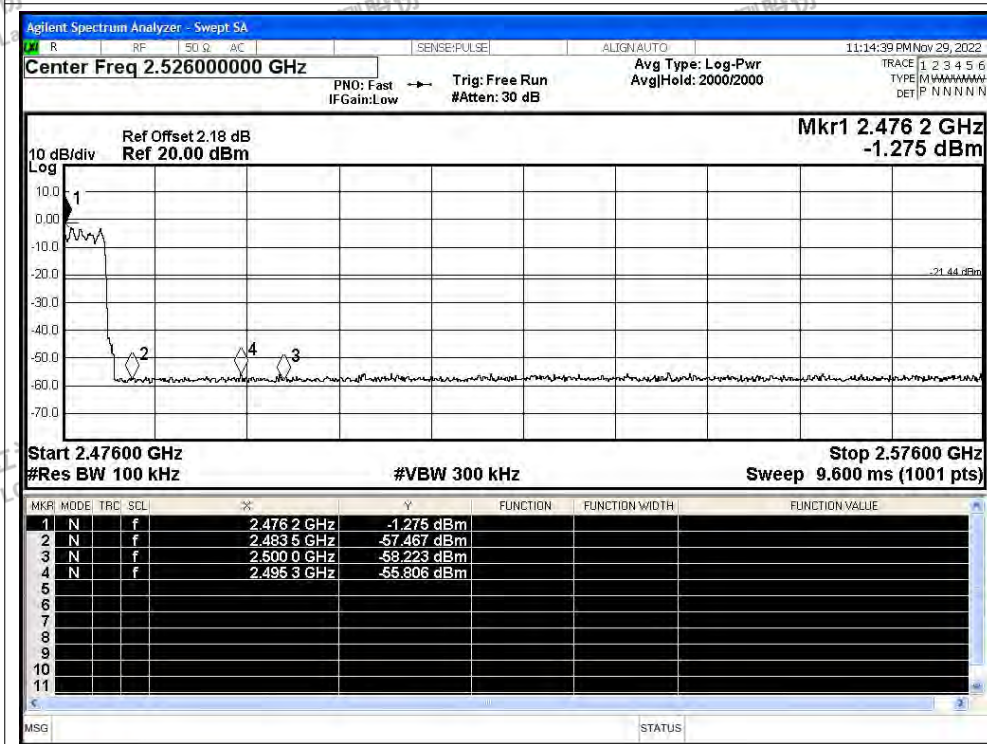
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-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	-55.41	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.89	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.96	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.88	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.93	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.17	-20	Pass

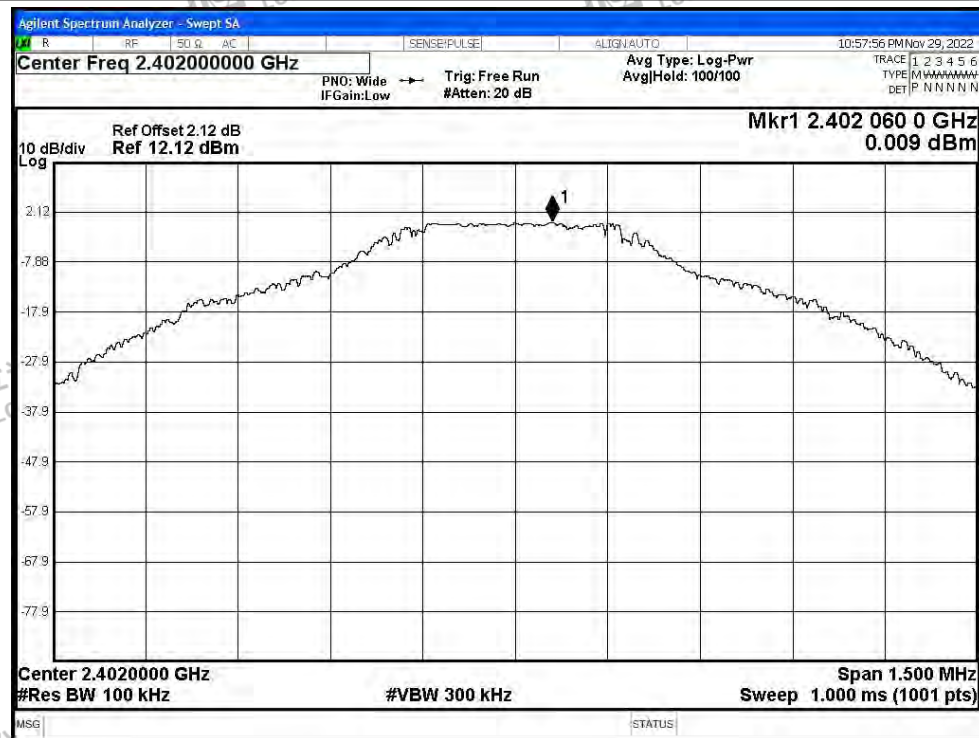


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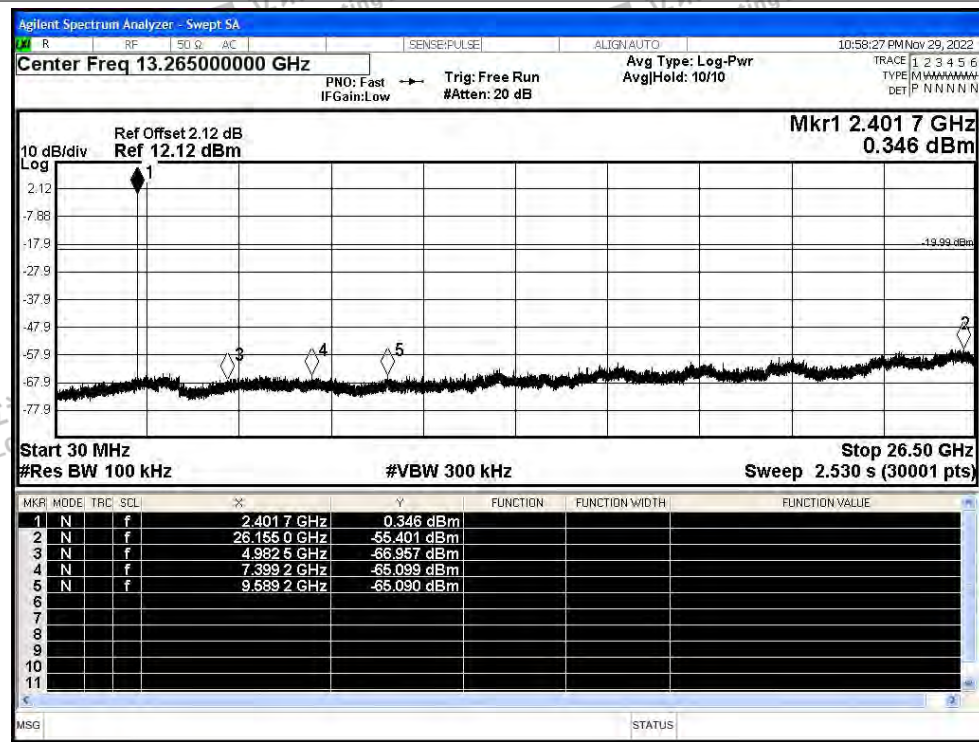


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

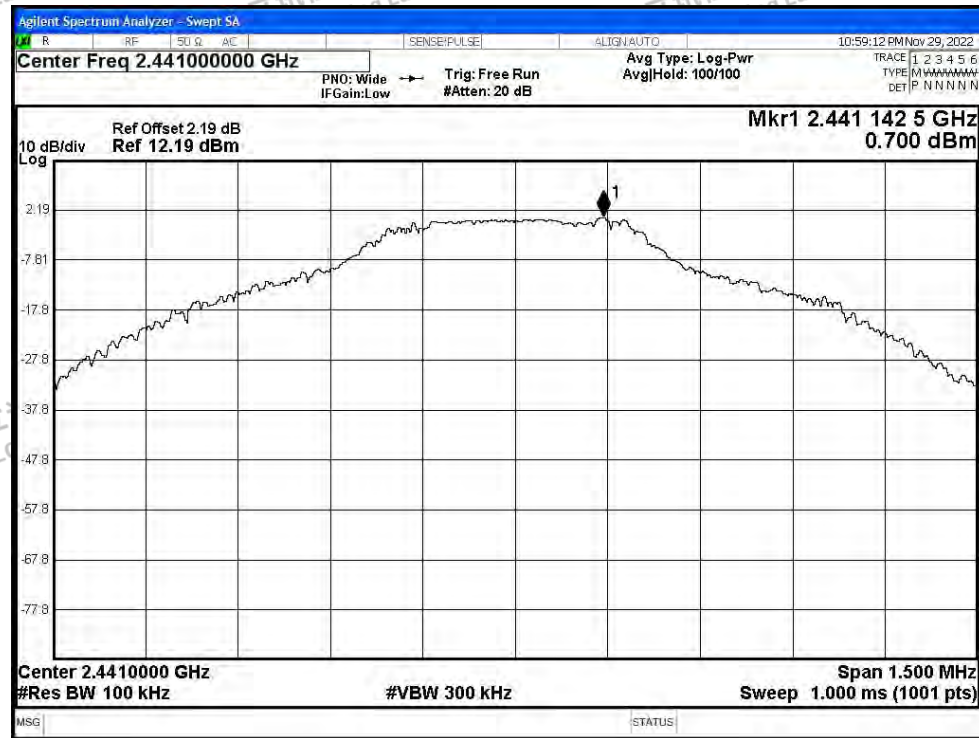


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

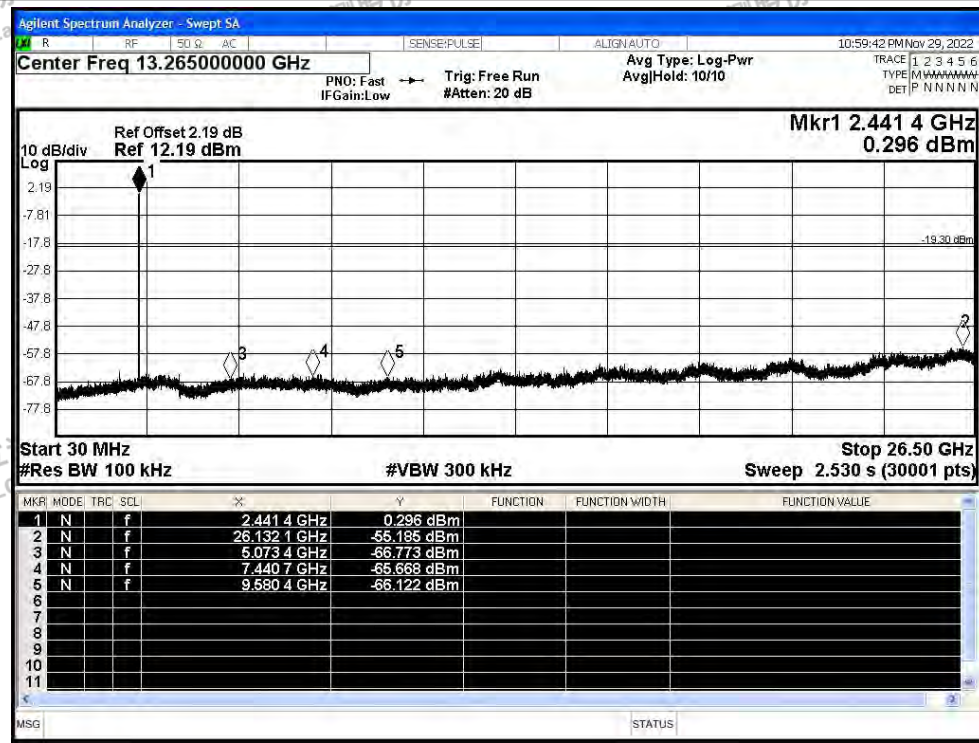




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

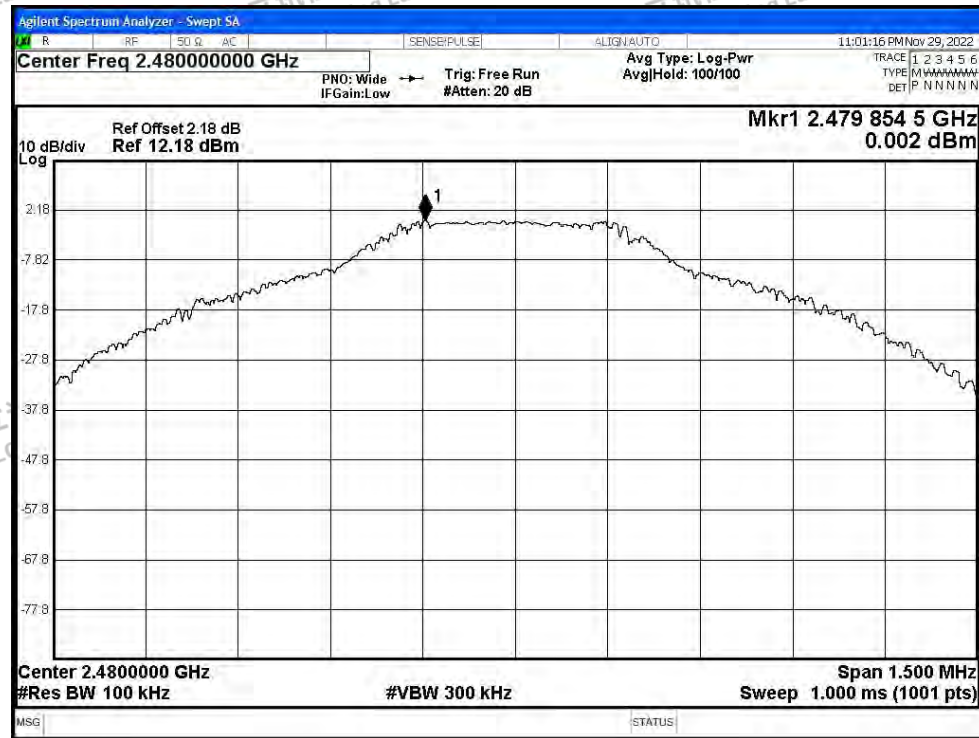


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

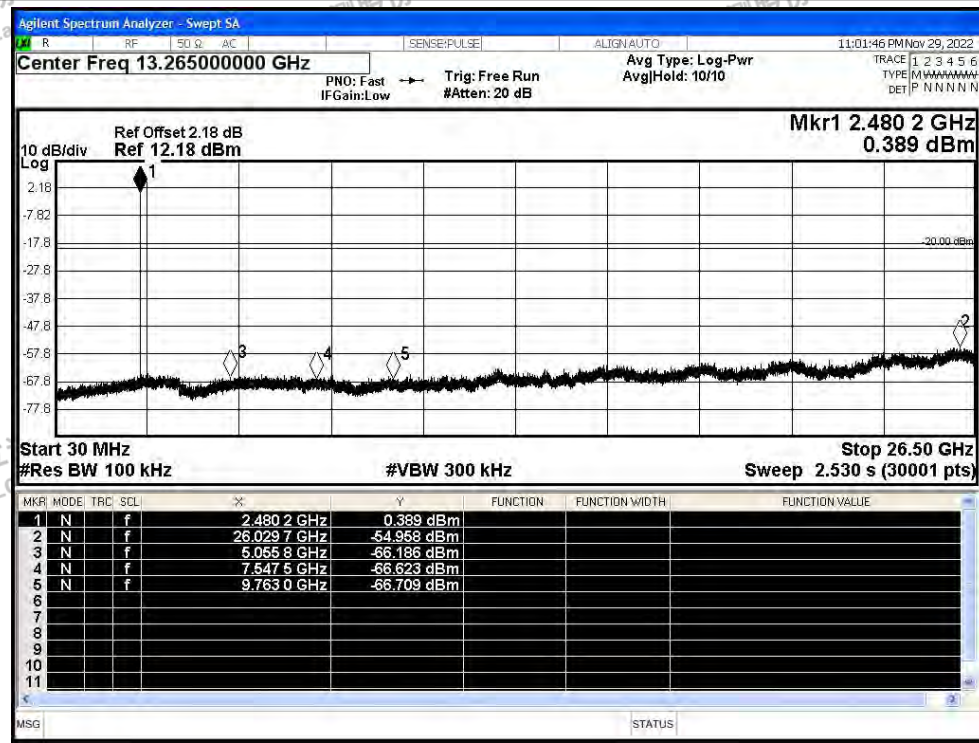




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

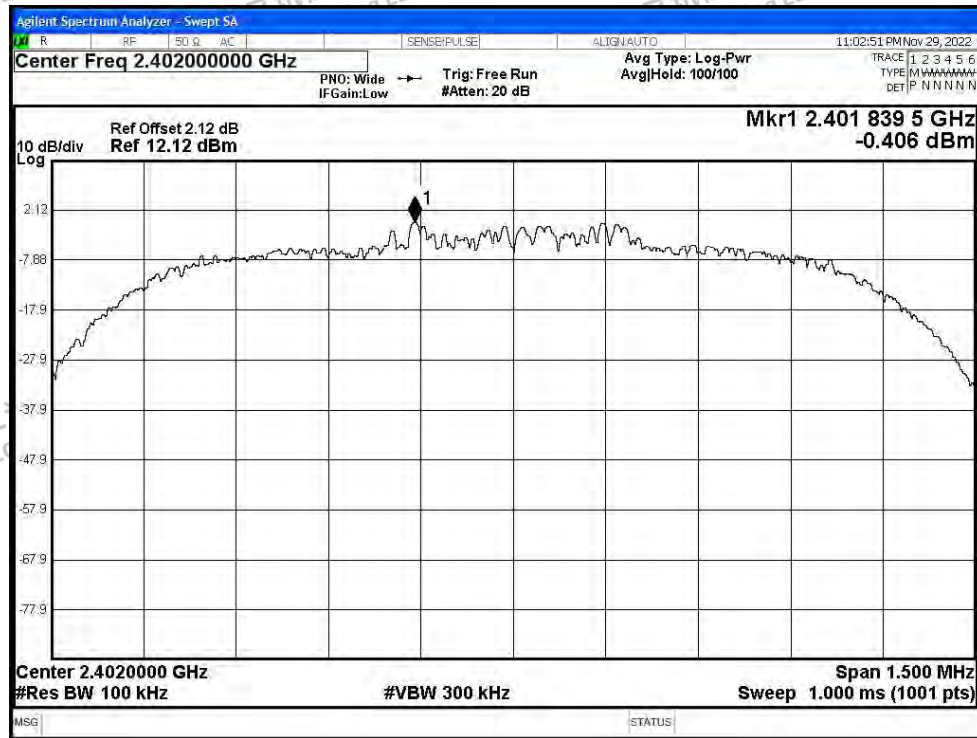


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

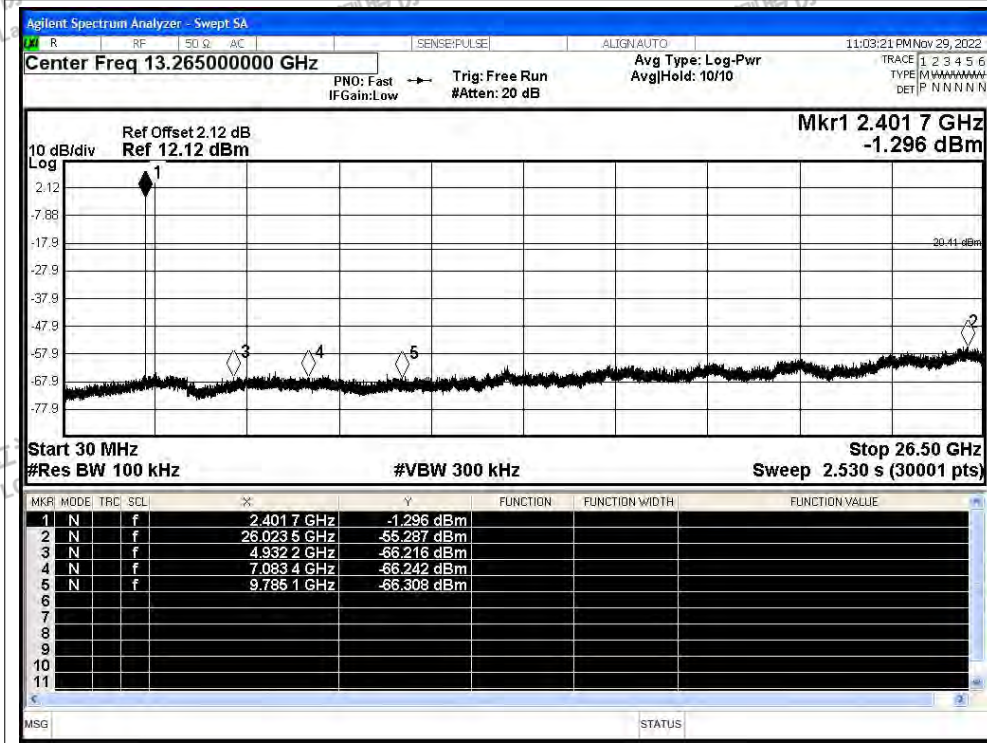


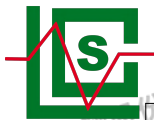


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

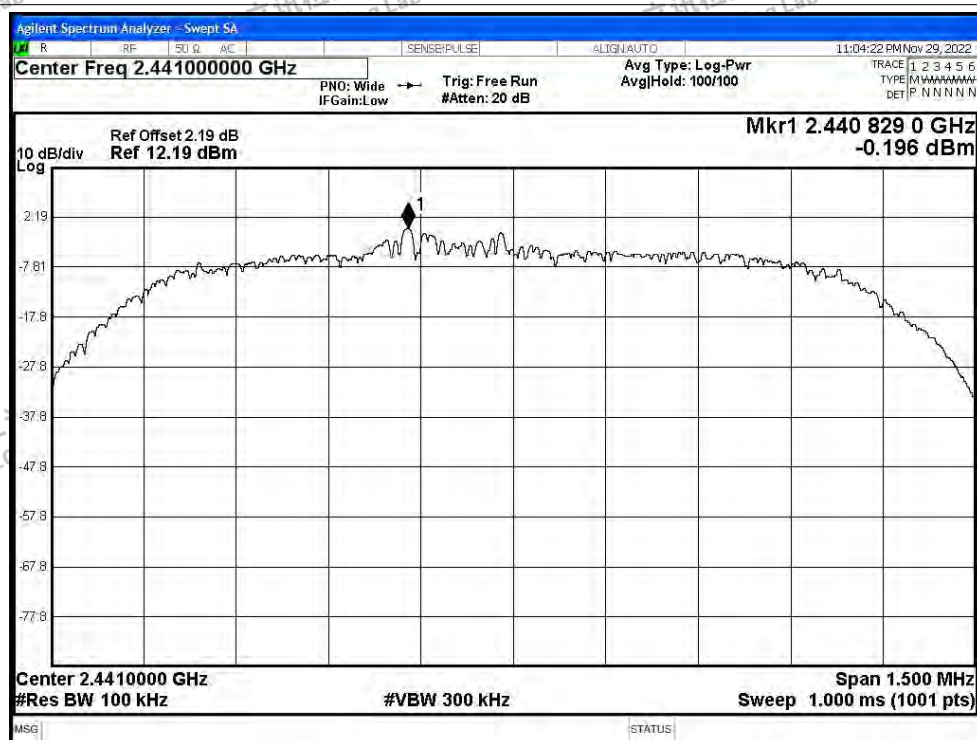


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

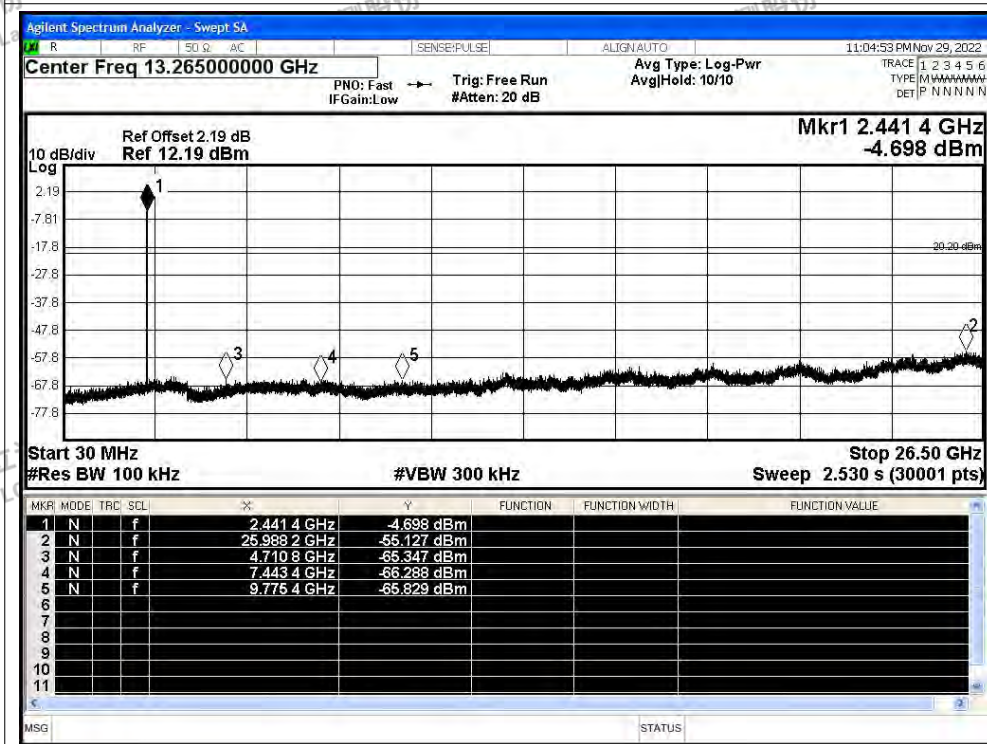




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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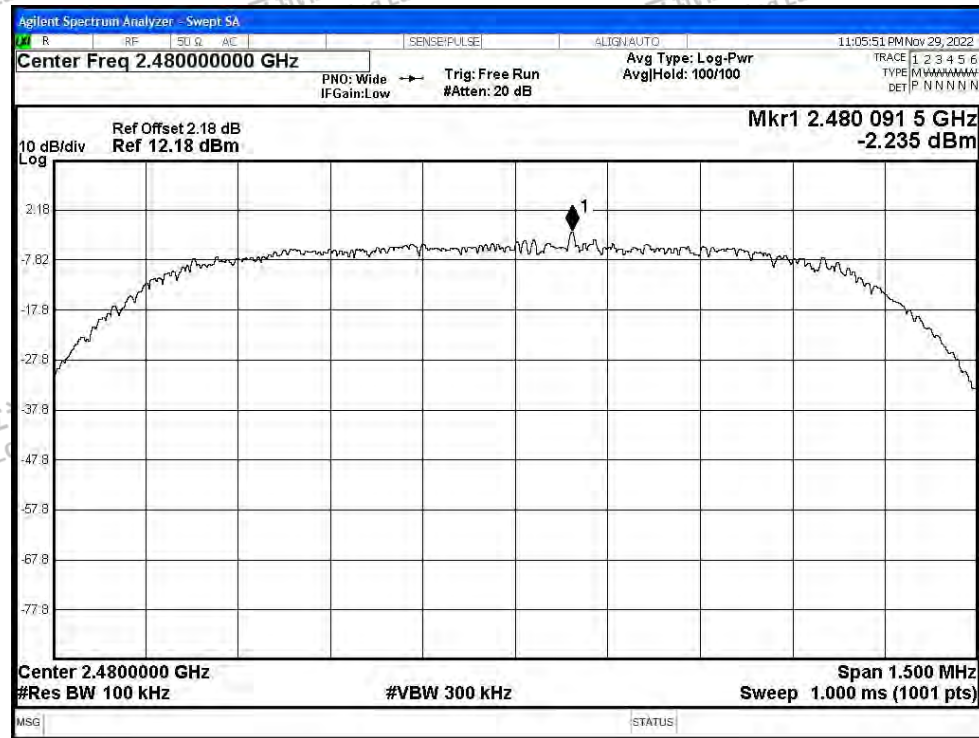
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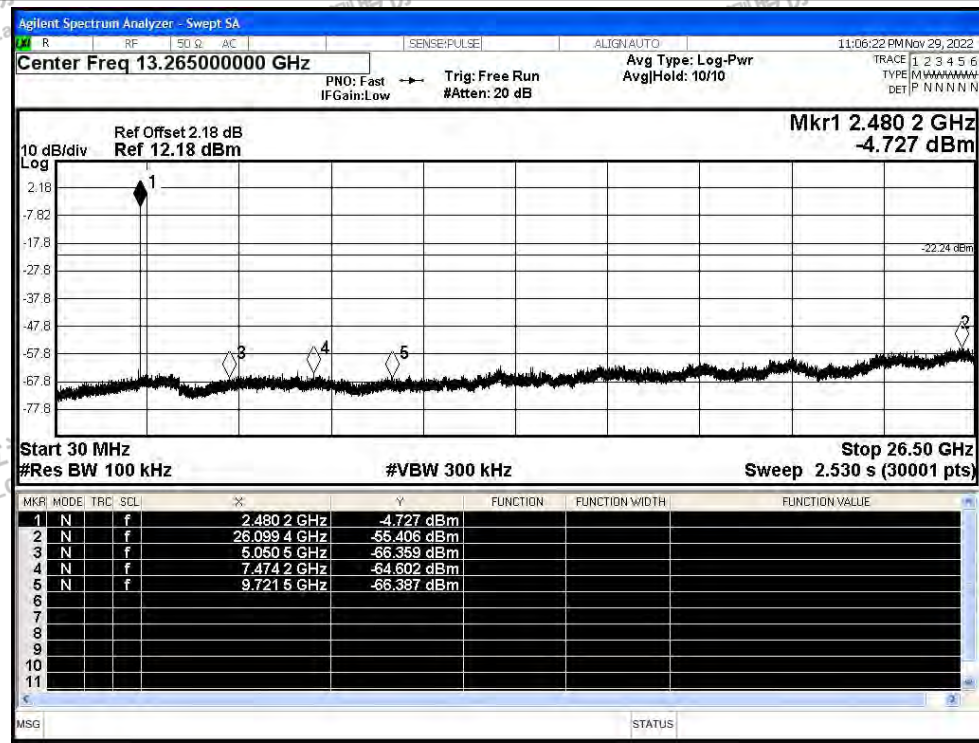
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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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	-50.55	2.52	47.20	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.26	2.52	37.49	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2356.56	-47.11	2.52	50.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.704	-59.82	2.52	37.93	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.32	2.52	48.43	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.98	2.52	37.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.81	2.52	46.94	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.5	2.52	38.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2492.704	-47.04	2.52	50.71	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-59.5	2.52	38.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.61	2.52	47.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.73	2.52	38.02	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.92	2.52	45.83	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.36	2.52	37.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2348.784	-47.4	2.52	50.35	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.424	-59.93	2.52	37.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.48	2.52	48.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.06	2.52	37.69	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.78	2.52	46.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.53	2.52	38.22	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.624	-47.31	2.52	50.44	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.088	-59.33	2.52	38.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.96	2.52	47.79	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.62	2.52	38.13	Average	54	Pass

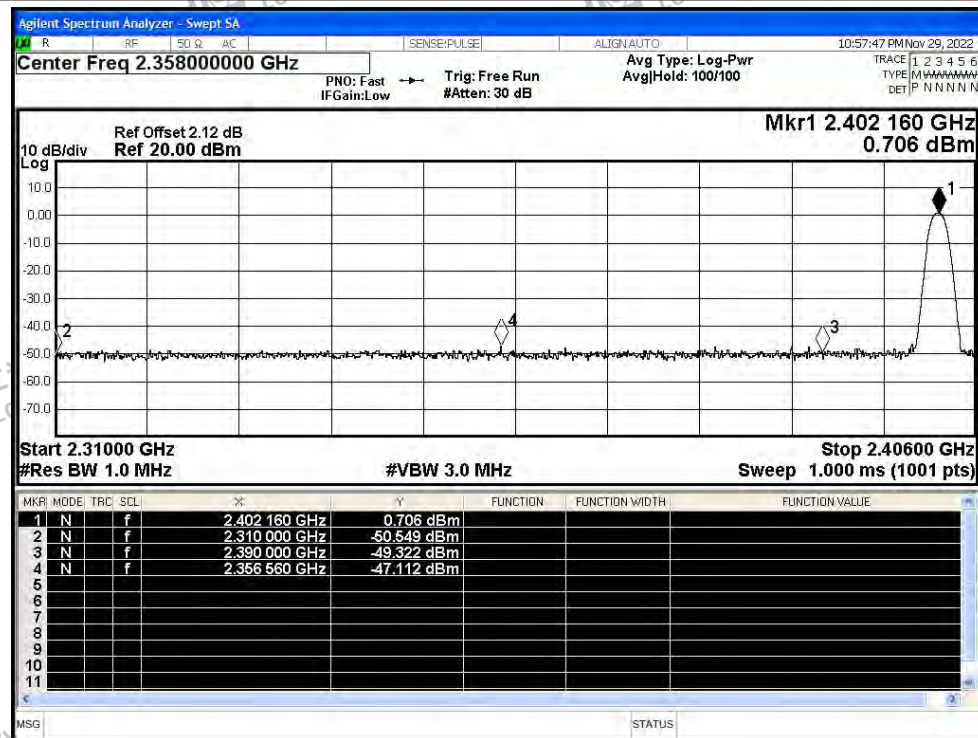


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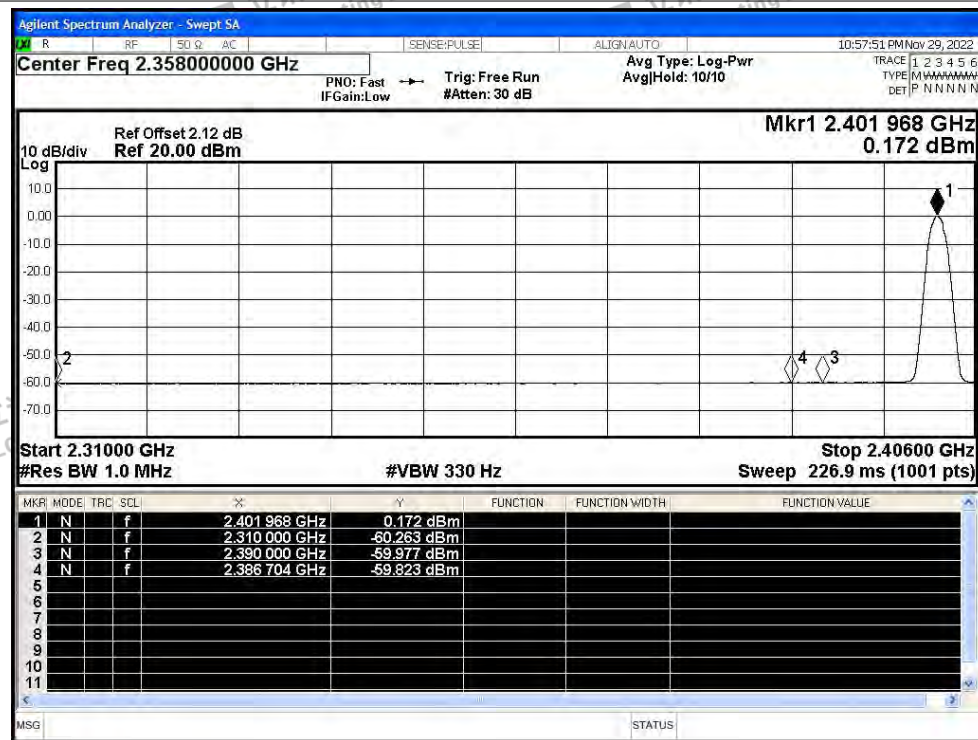


Test Graphs

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

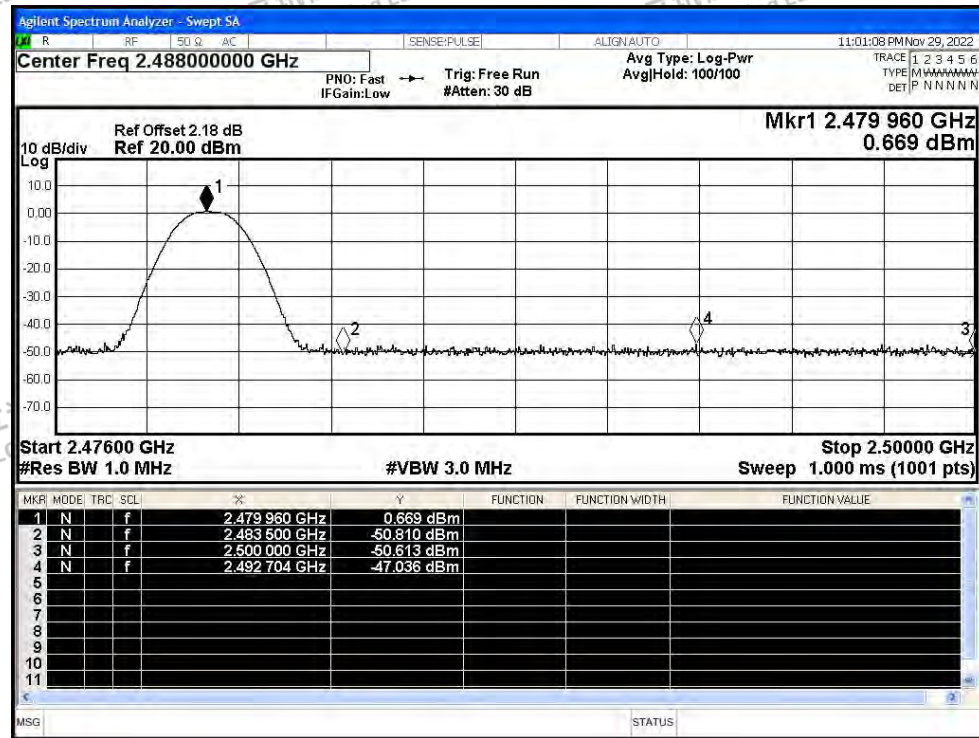


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

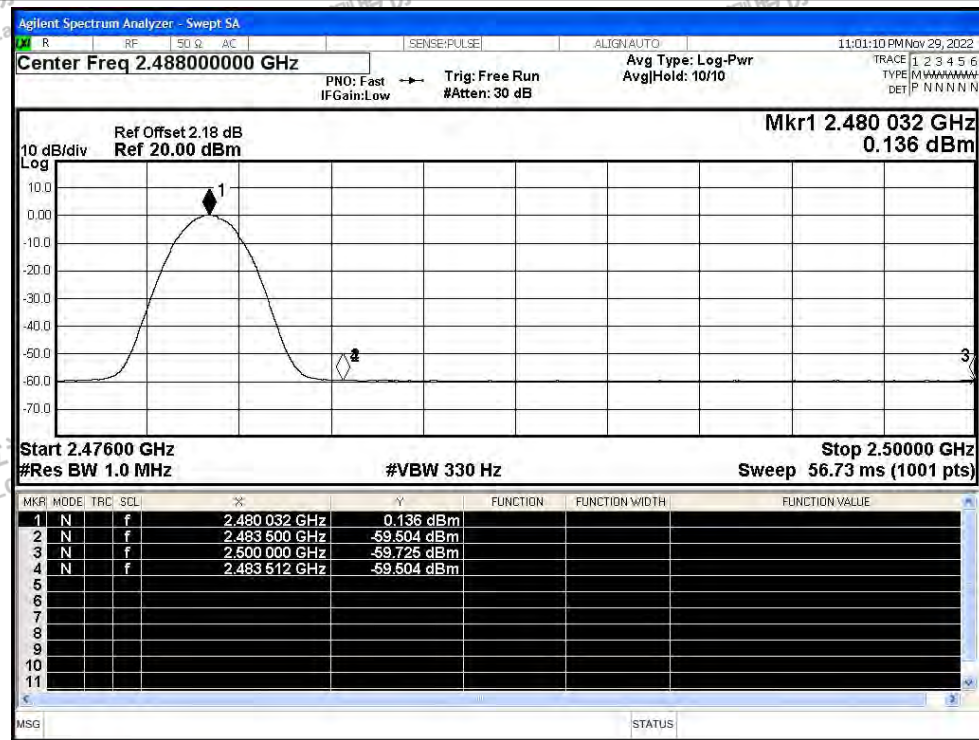




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

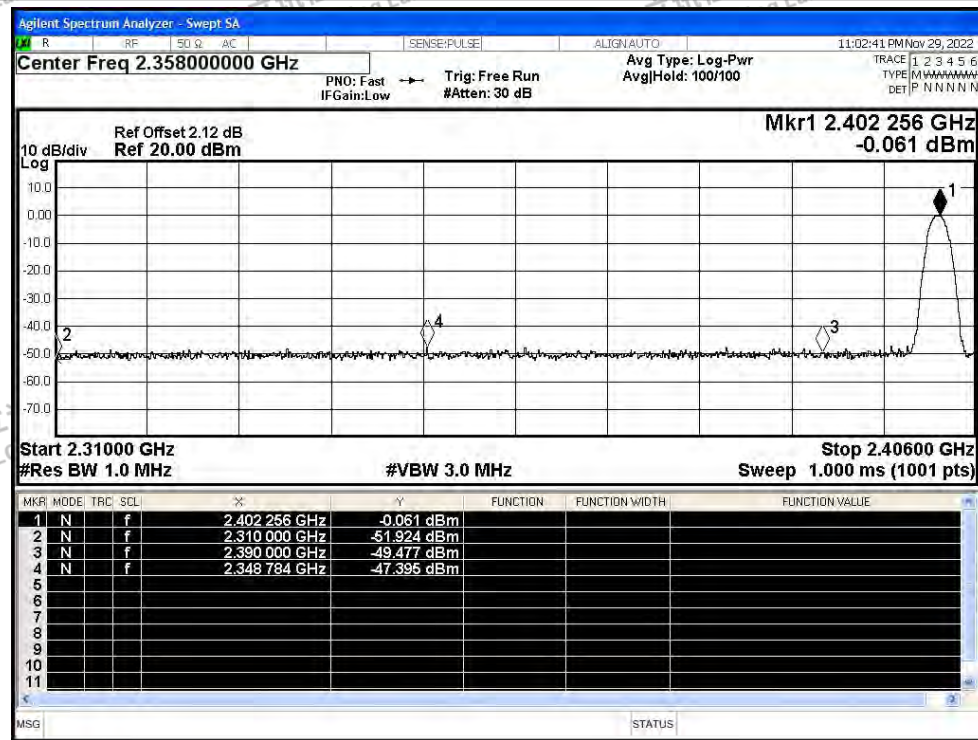


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

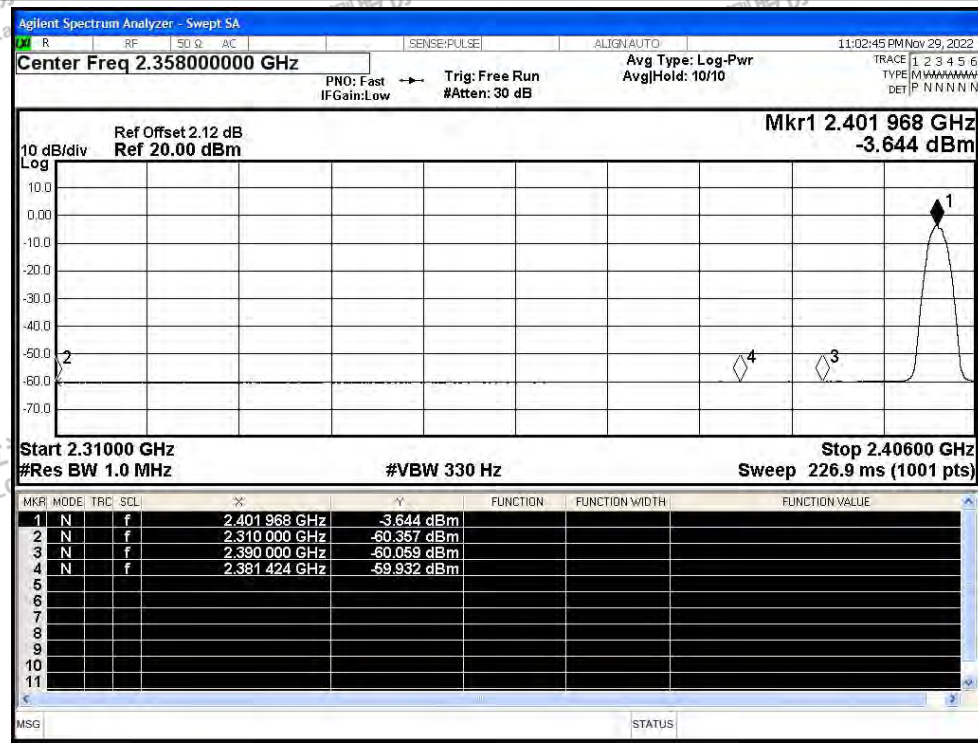




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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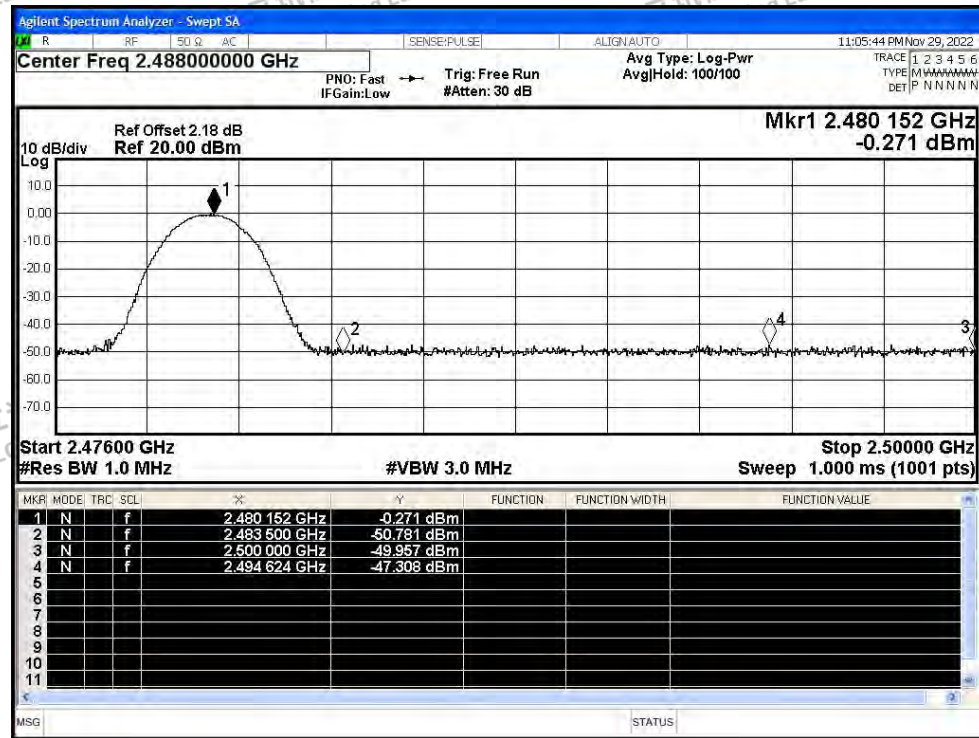
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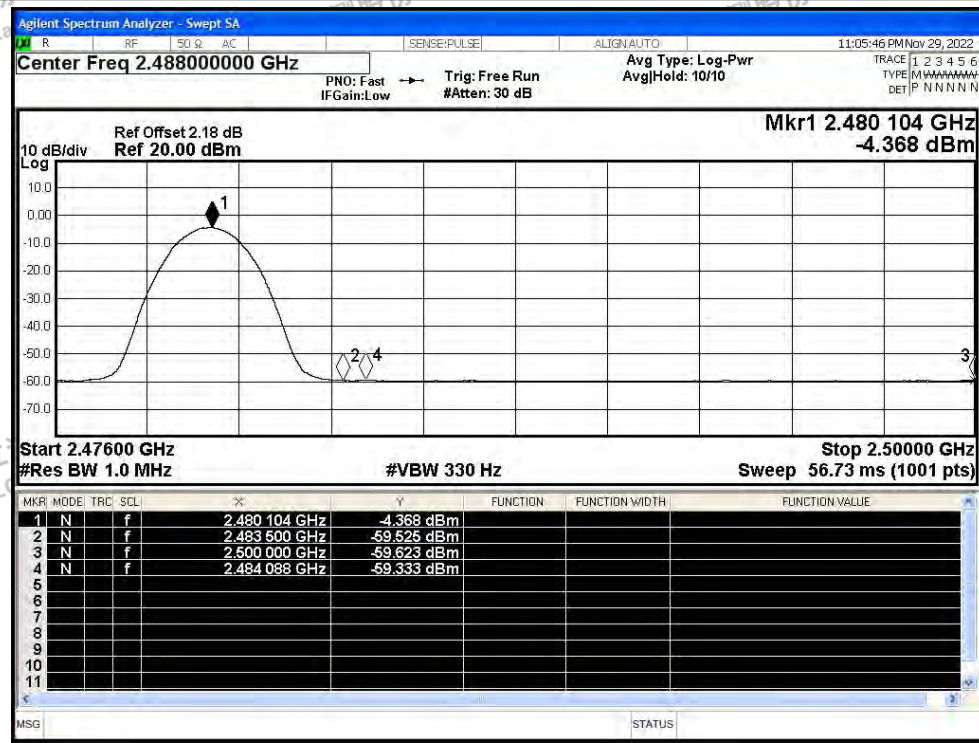
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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