



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bedside Alarm Clock with Wireless Charging

Test Model: WJ-018

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
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	1.036	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.99	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.026	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.313	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.296	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.295	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.274	N/A	Pass



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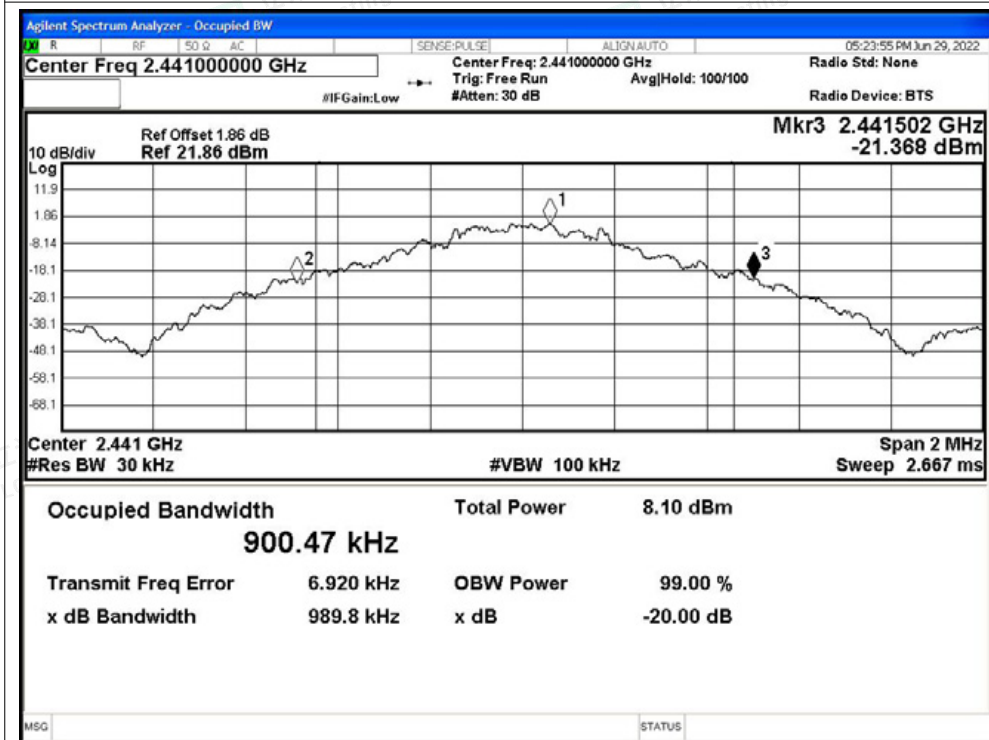


Test Graphs

20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

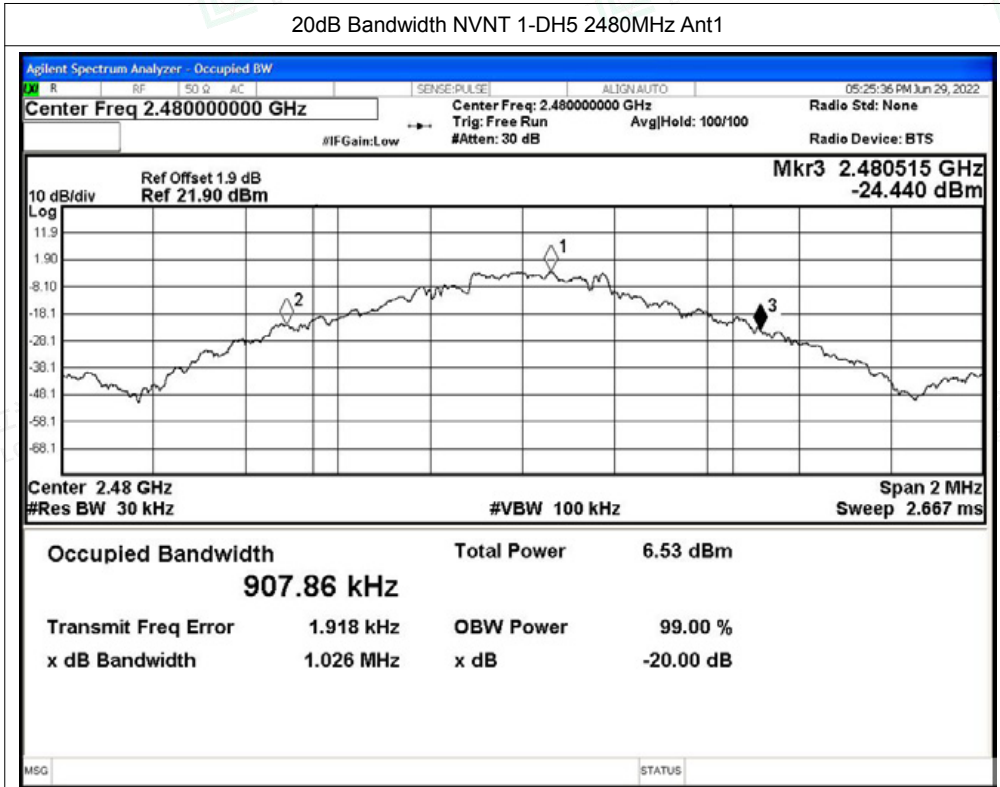


20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

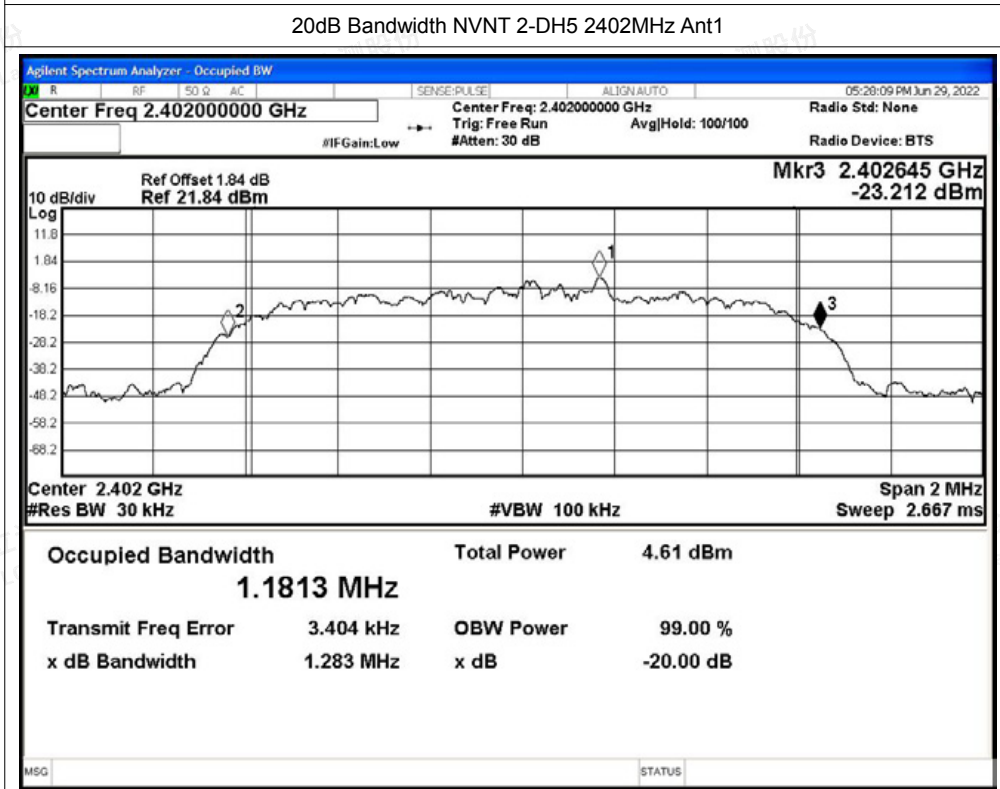




20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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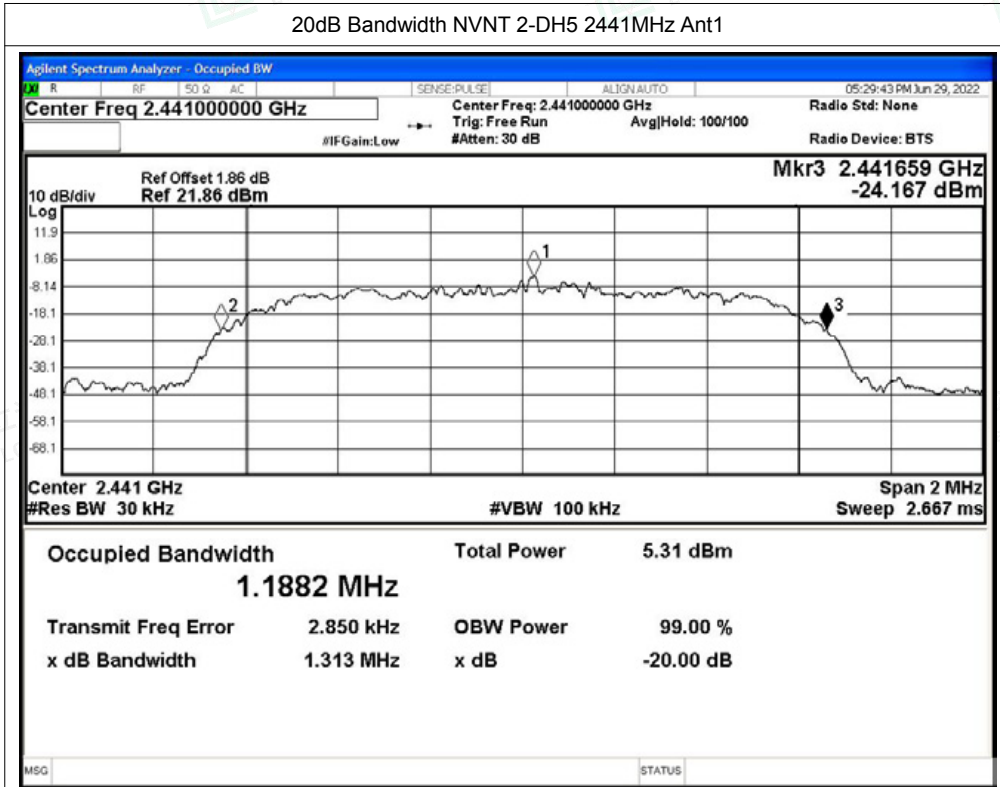
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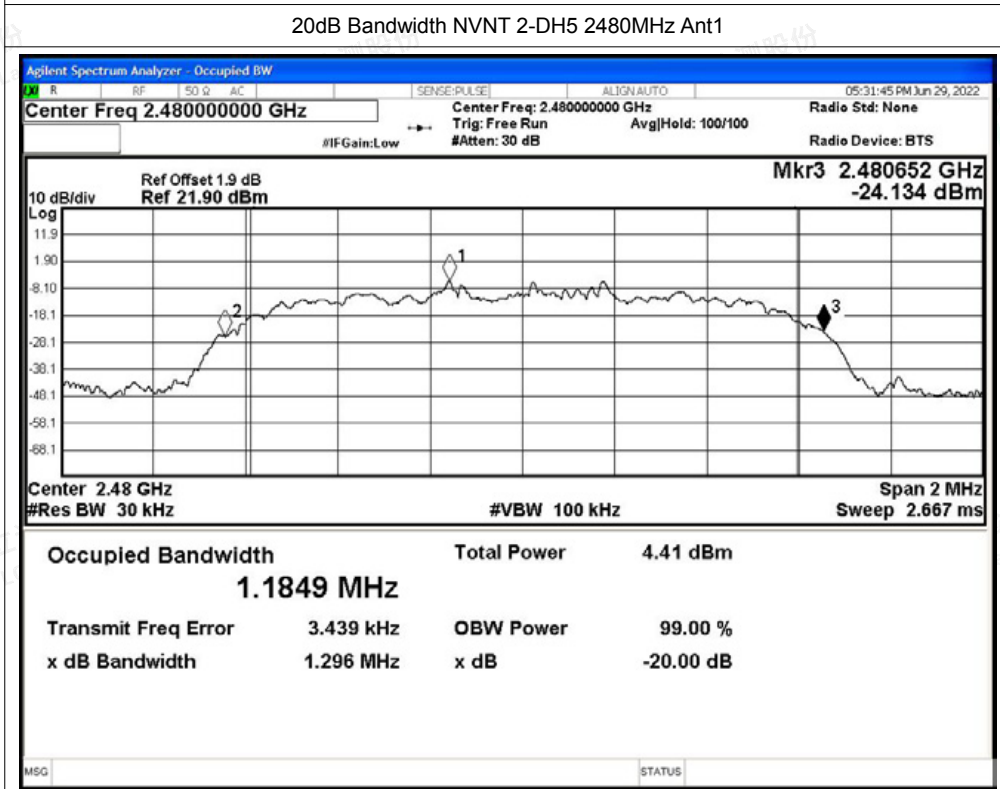
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20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

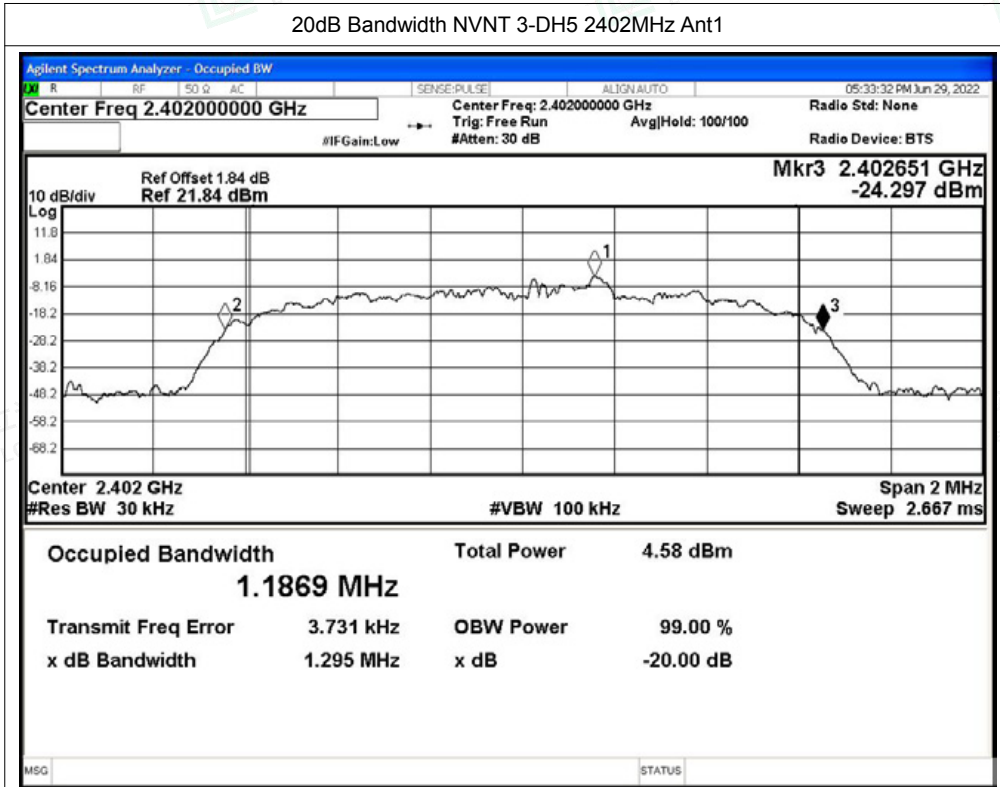


20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

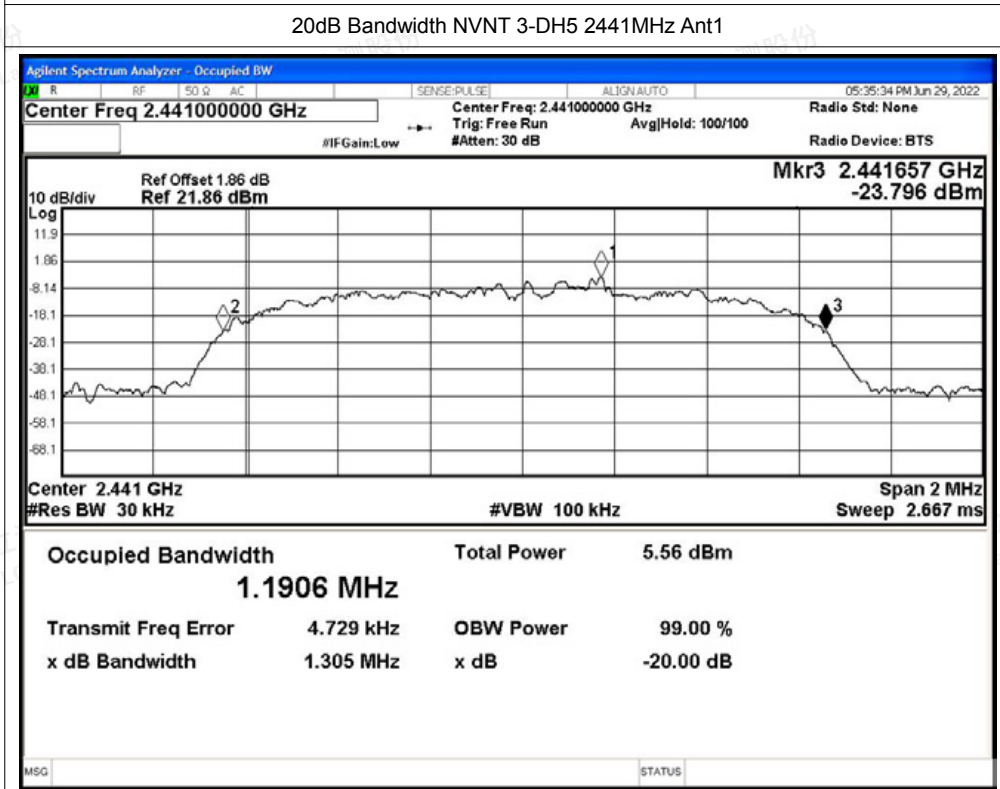




20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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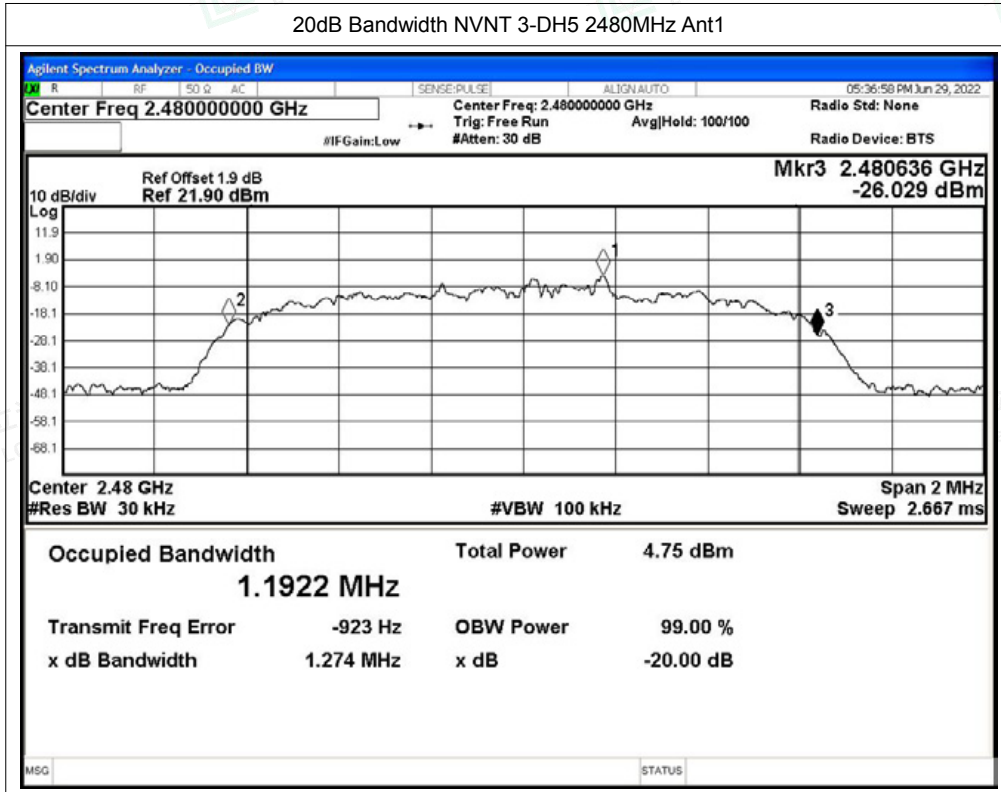
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20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.43	21	Pass
NVNT	1-DH5	2441	Ant1	1.83	21	Pass
NVNT	1-DH5	2480	Ant1	0.45	21	Pass
NVNT	2-DH5	2402	Ant1	-0.4	21	Pass
NVNT	2-DH5	2441	Ant1	0.95	21	Pass
NVNT	2-DH5	2480	Ant1	-0.34	21	Pass
NVNT	3-DH5	2402	Ant1	-0.28	21	Pass
NVNT	3-DH5	2441	Ant1	1.09	21	Pass
NVNT	3-DH5	2480	Ant1	-0.17	21	Pass



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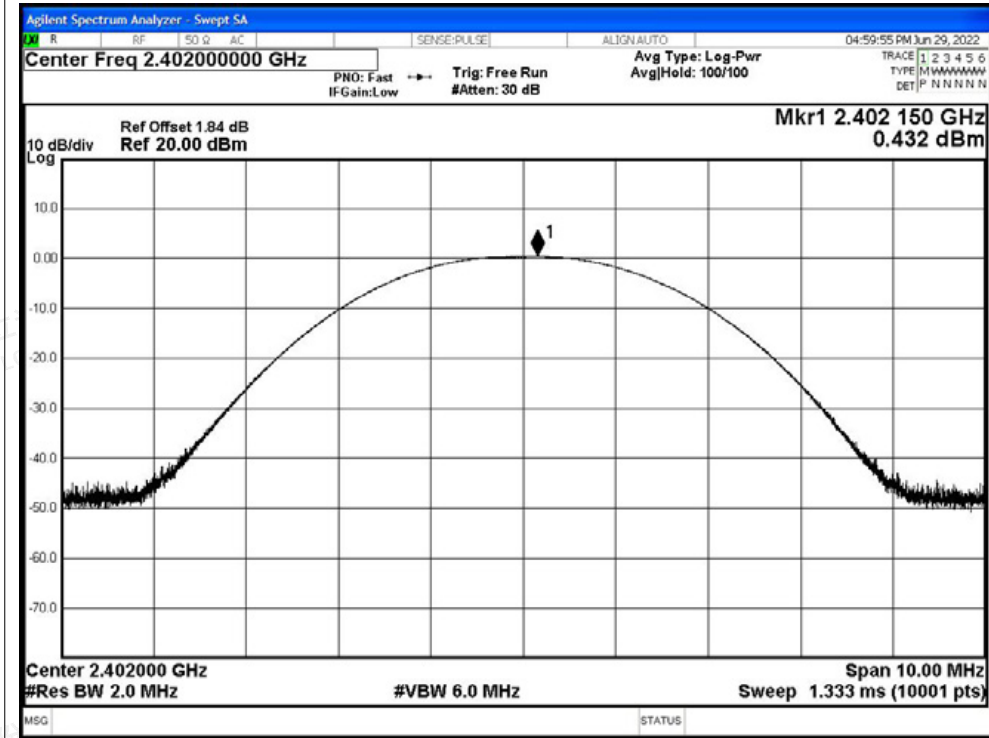
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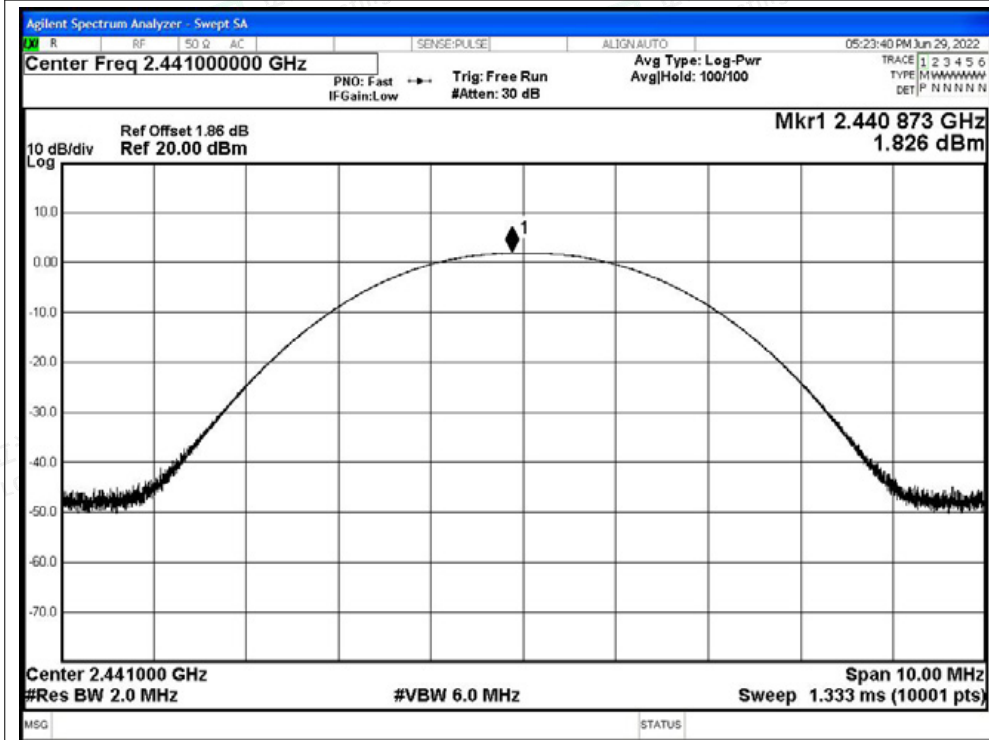


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

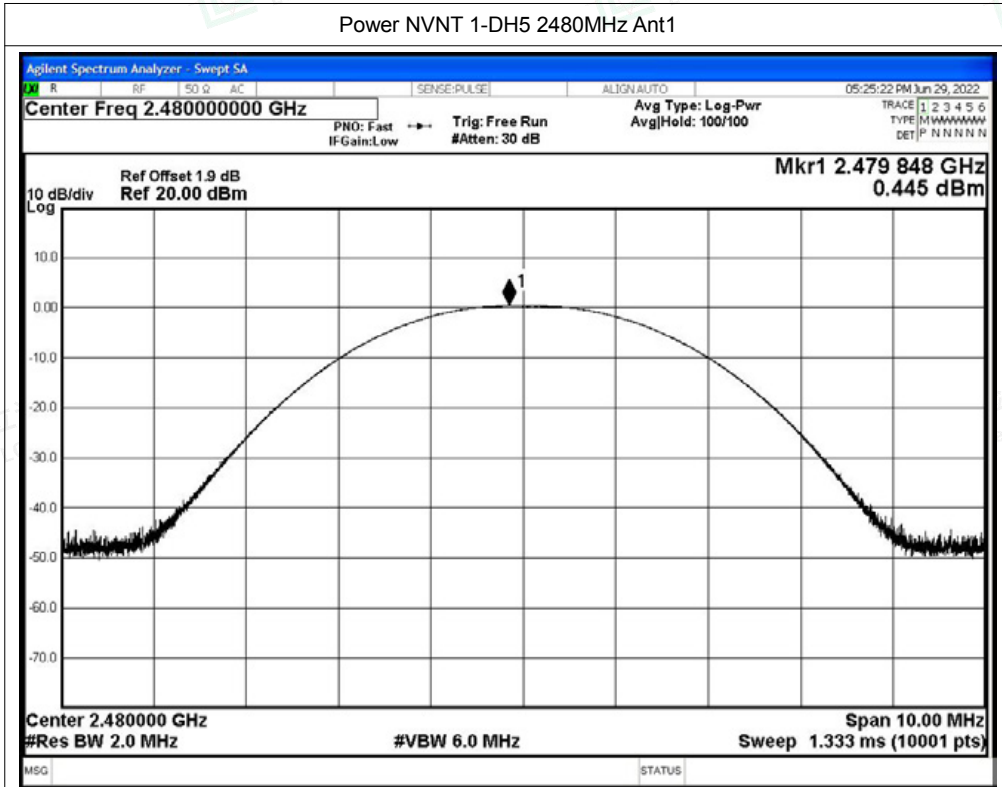


Power NVNT 1-DH5 2441MHz Ant1

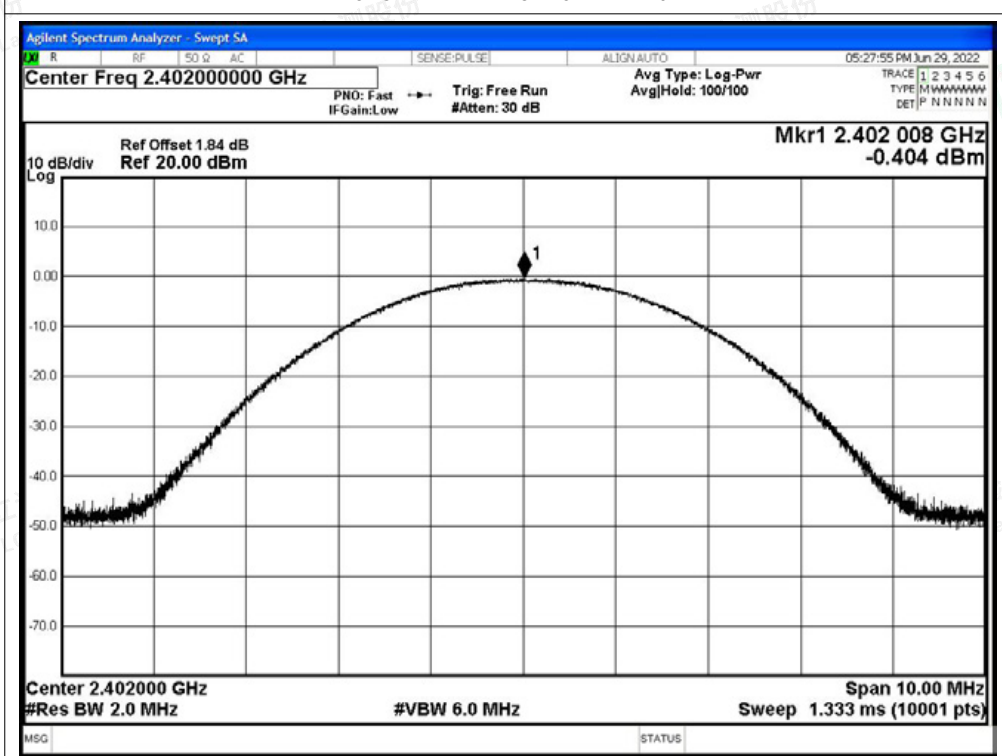




Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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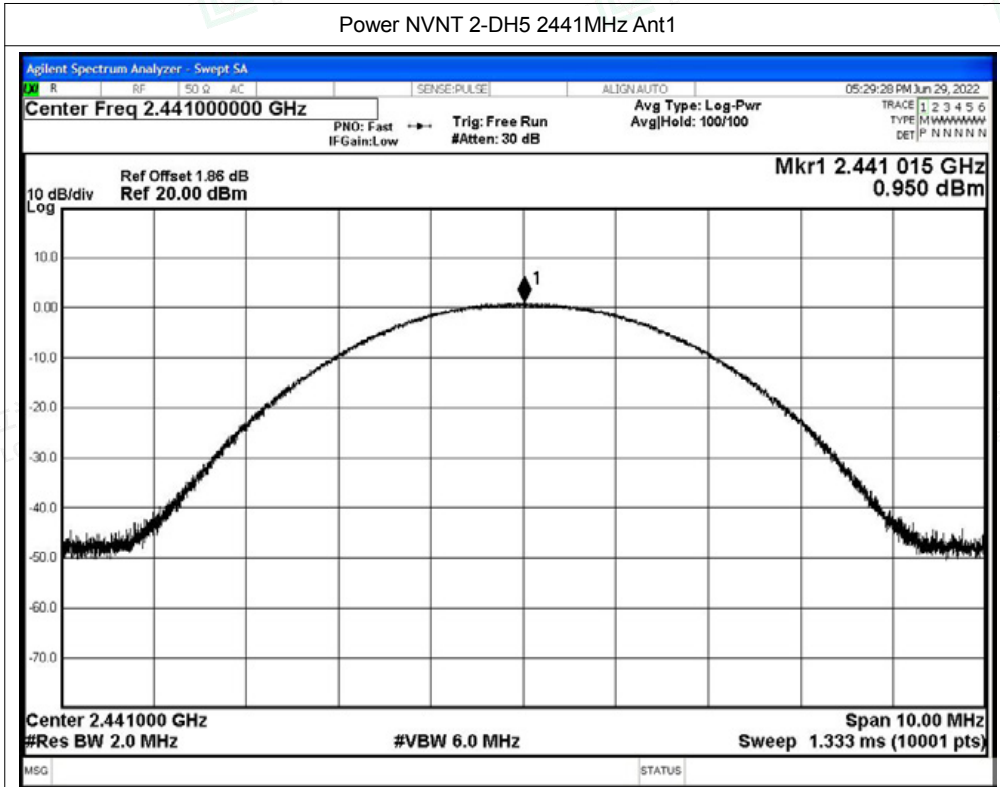
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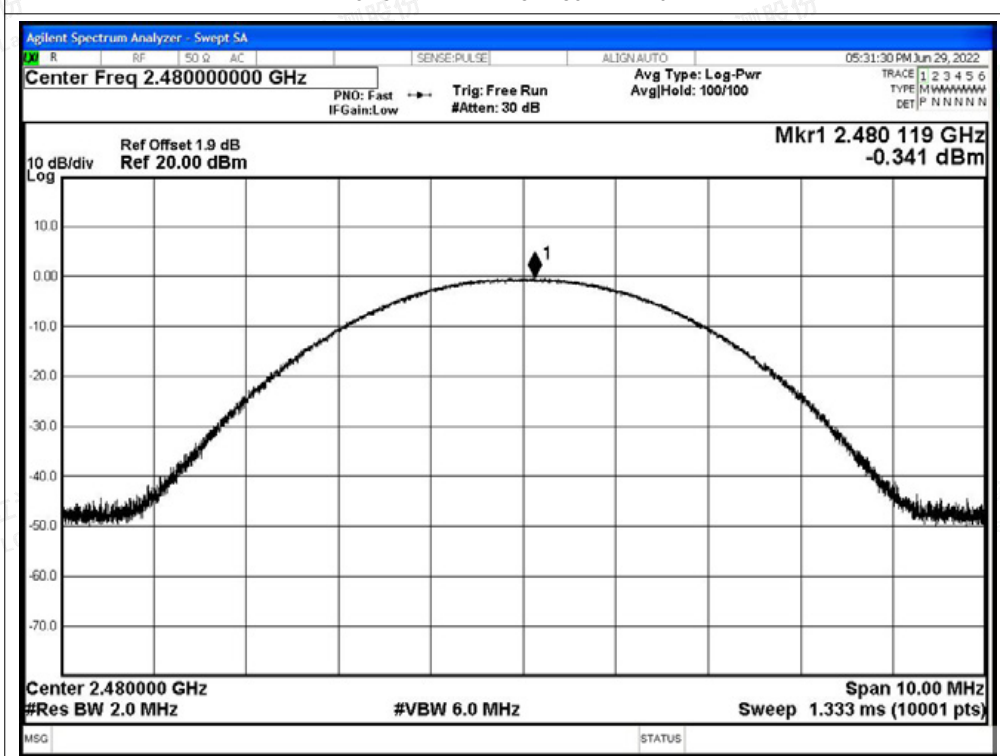
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Power NVNT 2-DH5 2441MHz Ant1

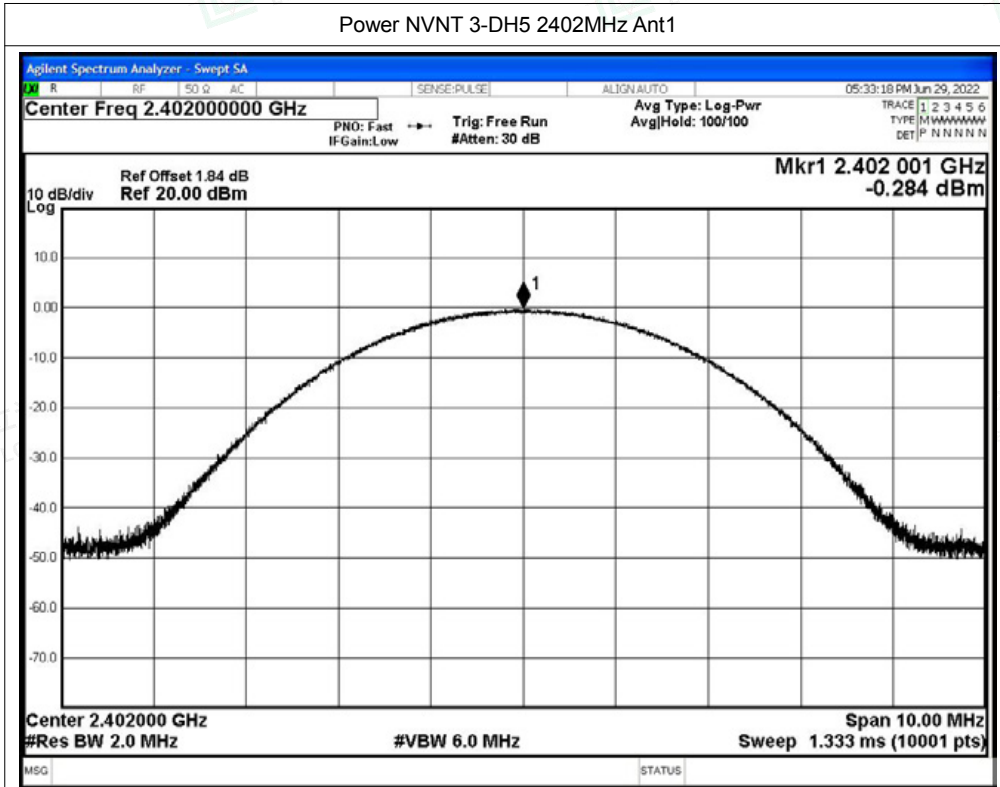


Power NVNT 2-DH5 2480MHz Ant1

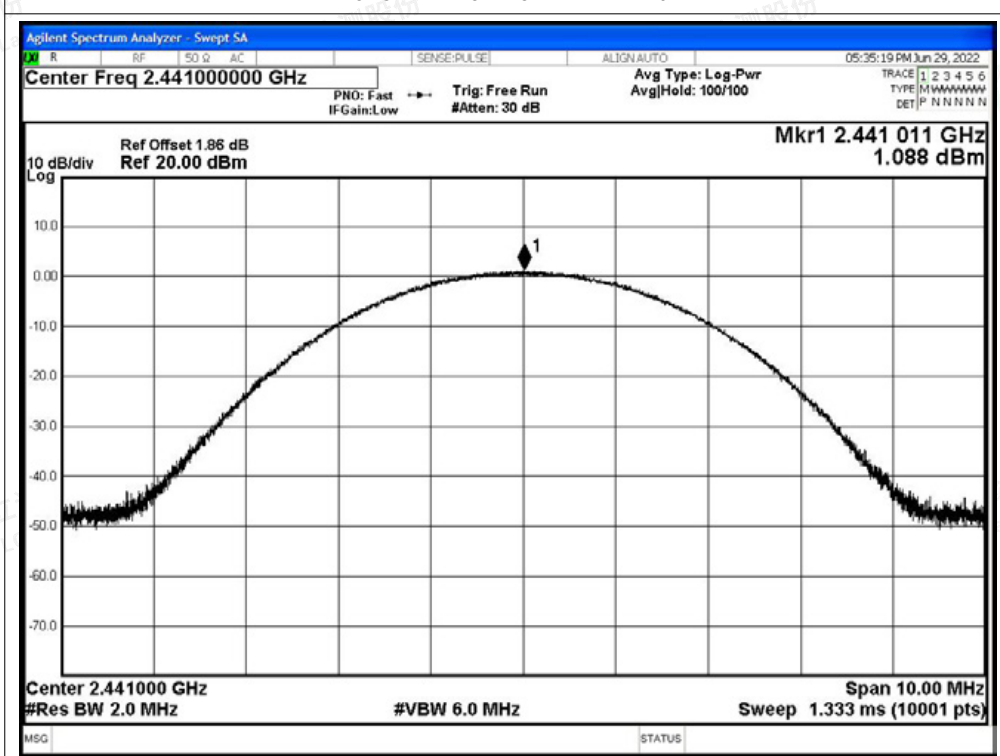


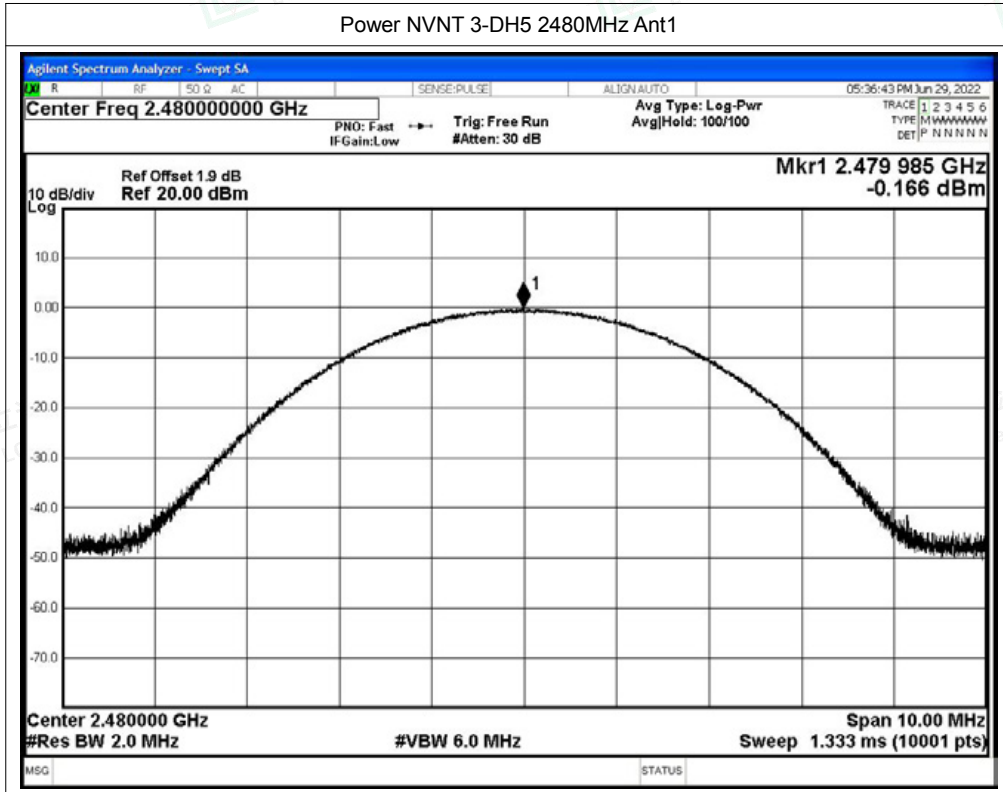


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.018	2403.018	1	0.691	Pass
NVNT	2-DH5	Ant1	2402.17	2403.166	0.996	0.855	Pass
NVNT	3-DH5	Ant1	2402.108	2403.128	1.02	0.863	Pass



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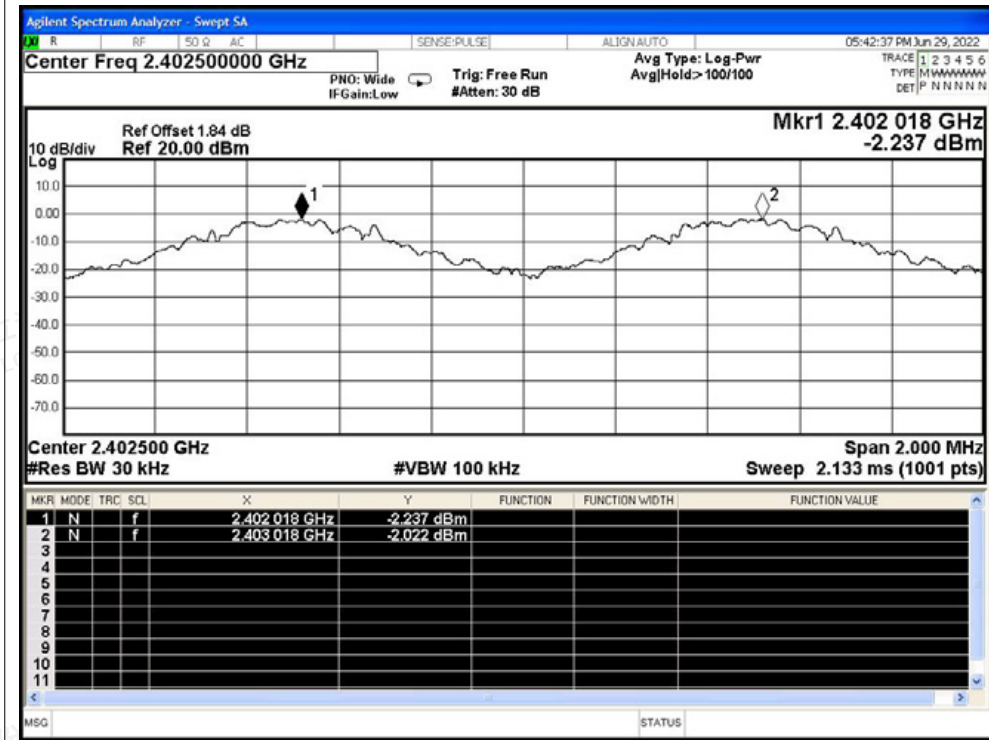
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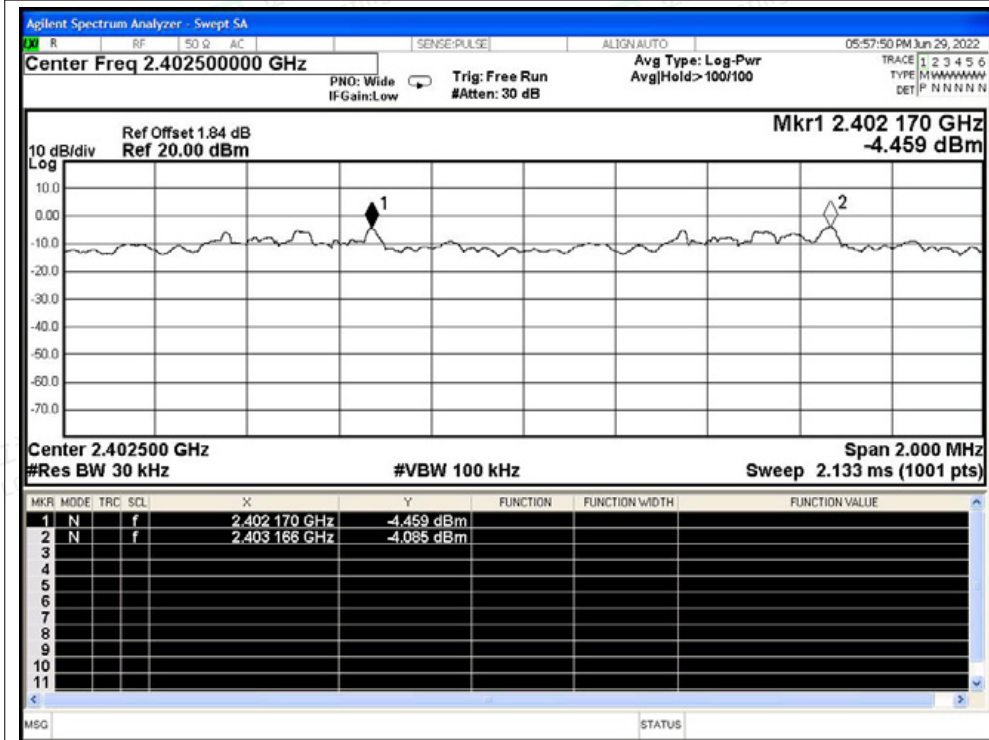


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

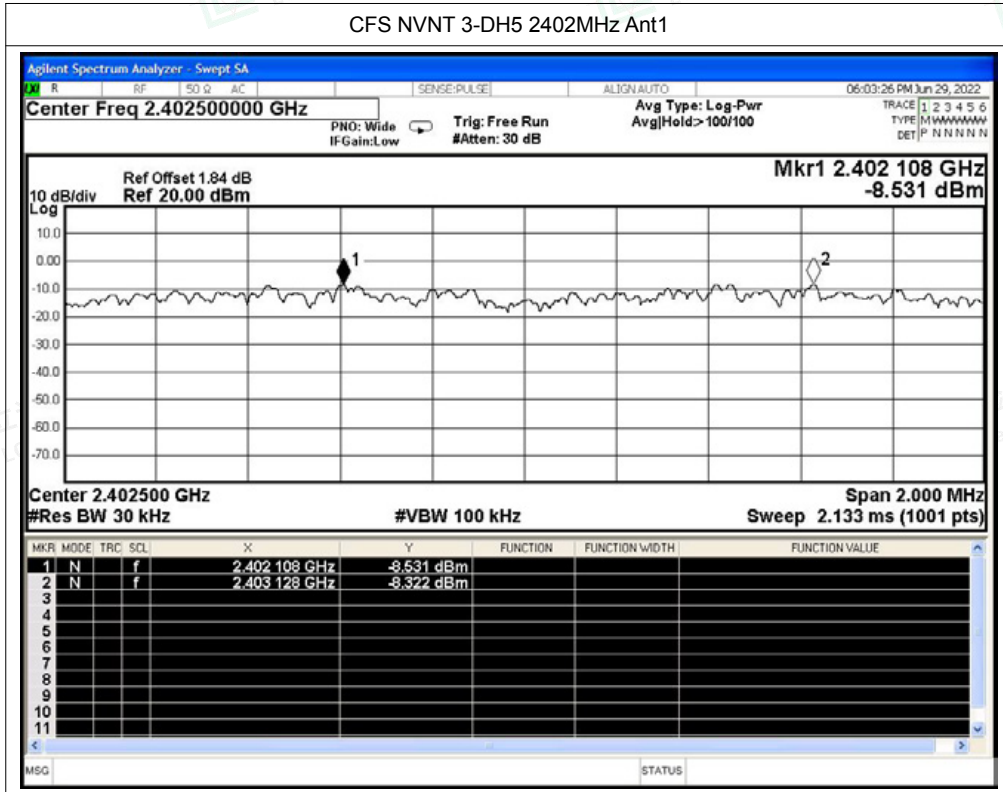


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A.4 Dwell Time

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	285.219	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	308.16	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	317.46	110	31600	400	Pass



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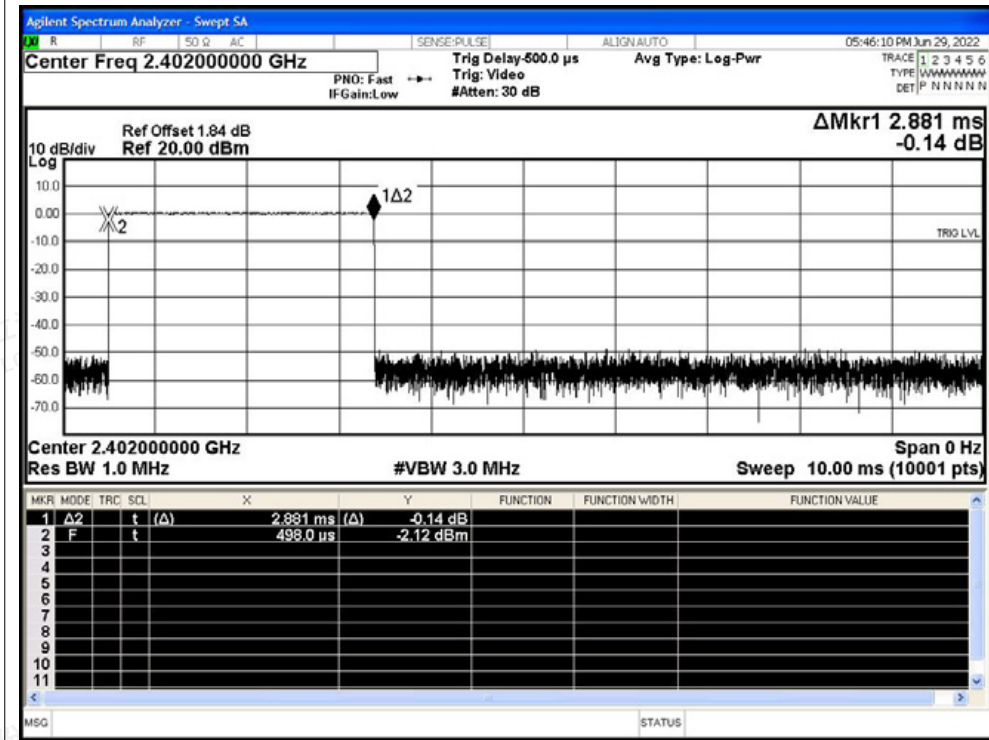
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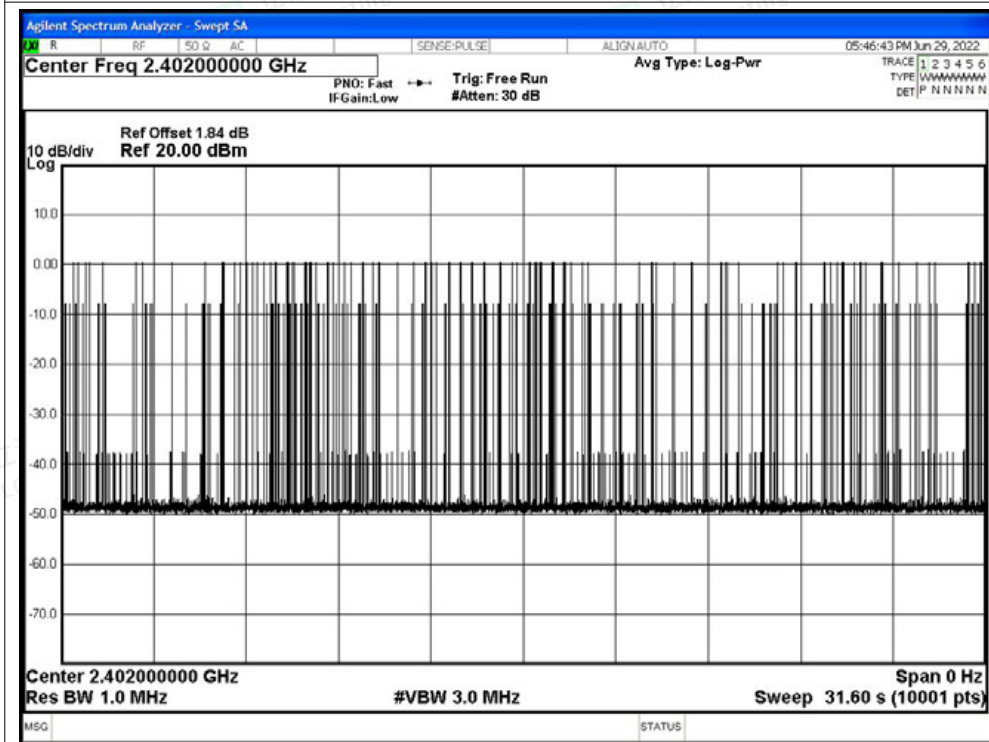


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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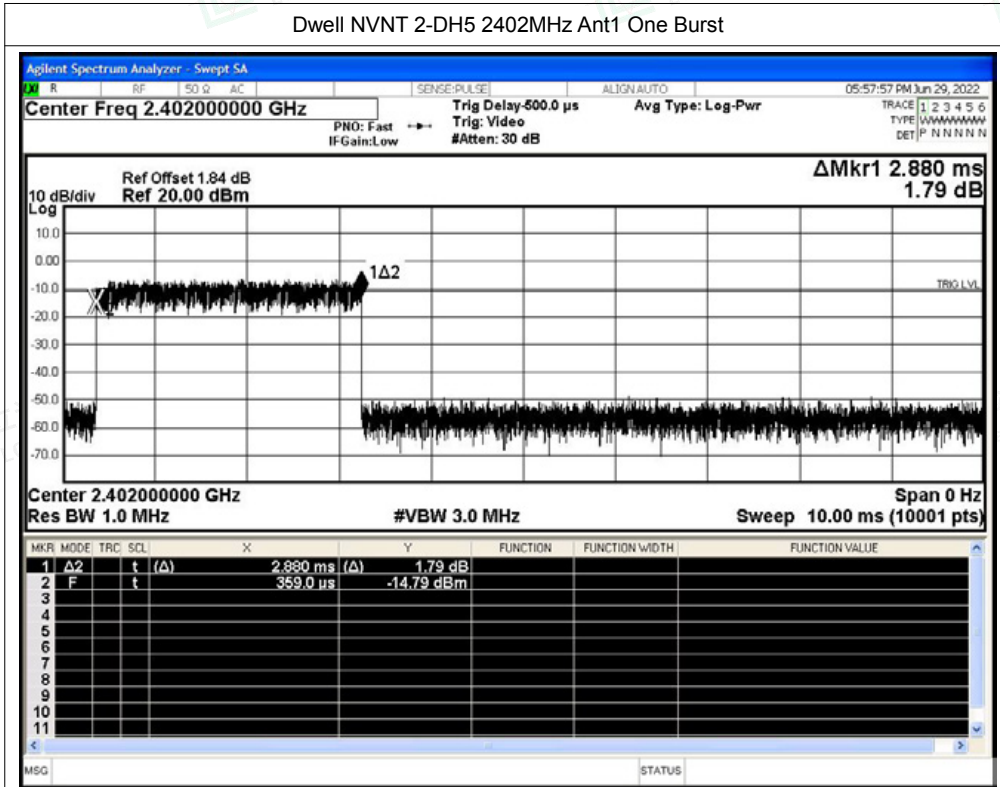
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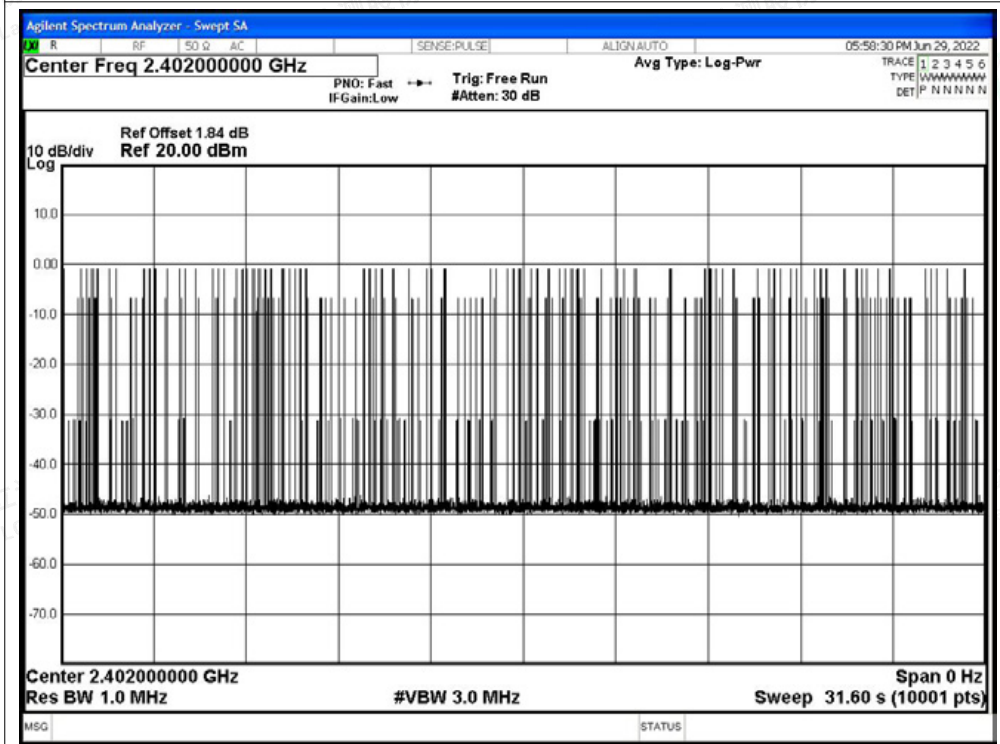
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

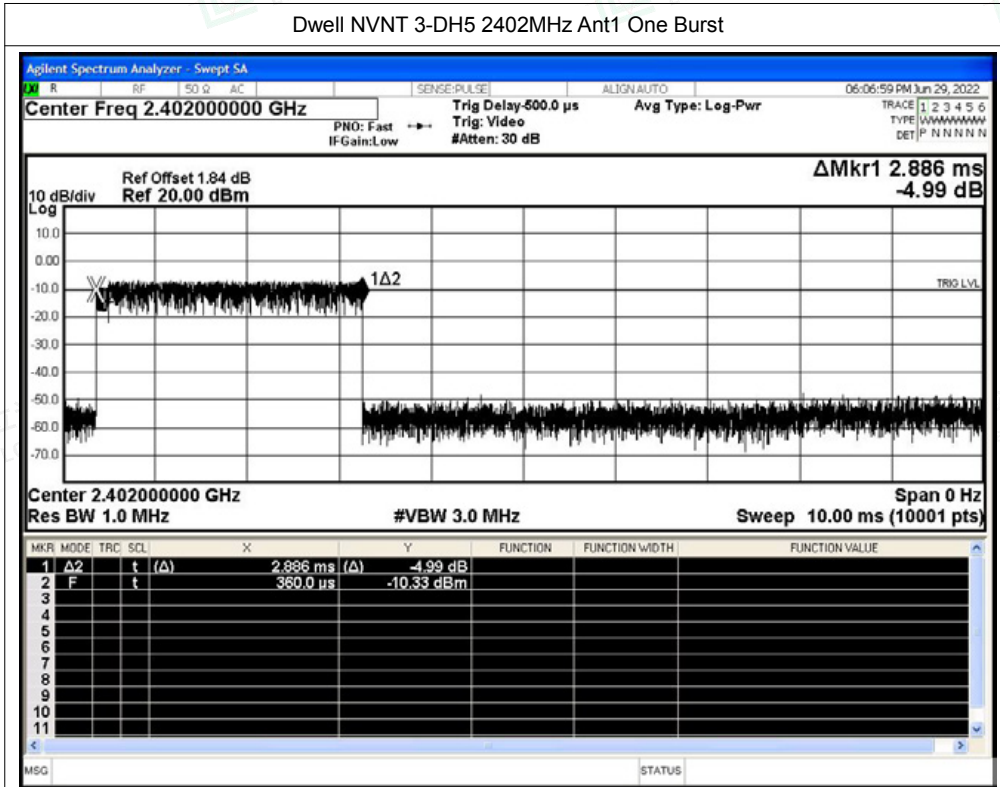


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

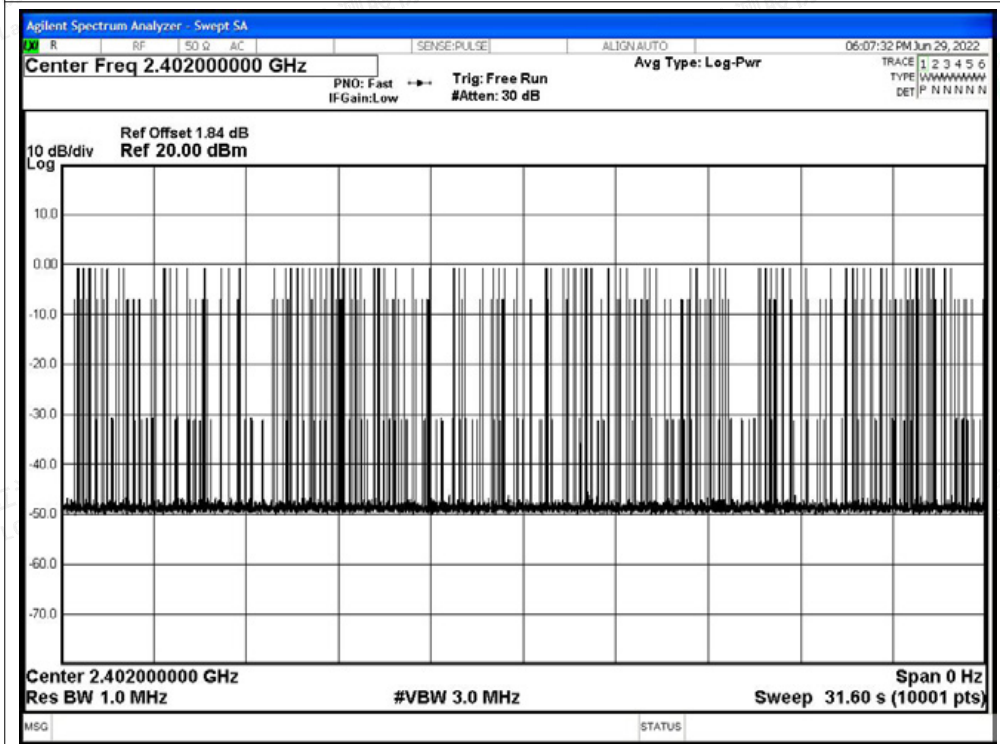




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





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



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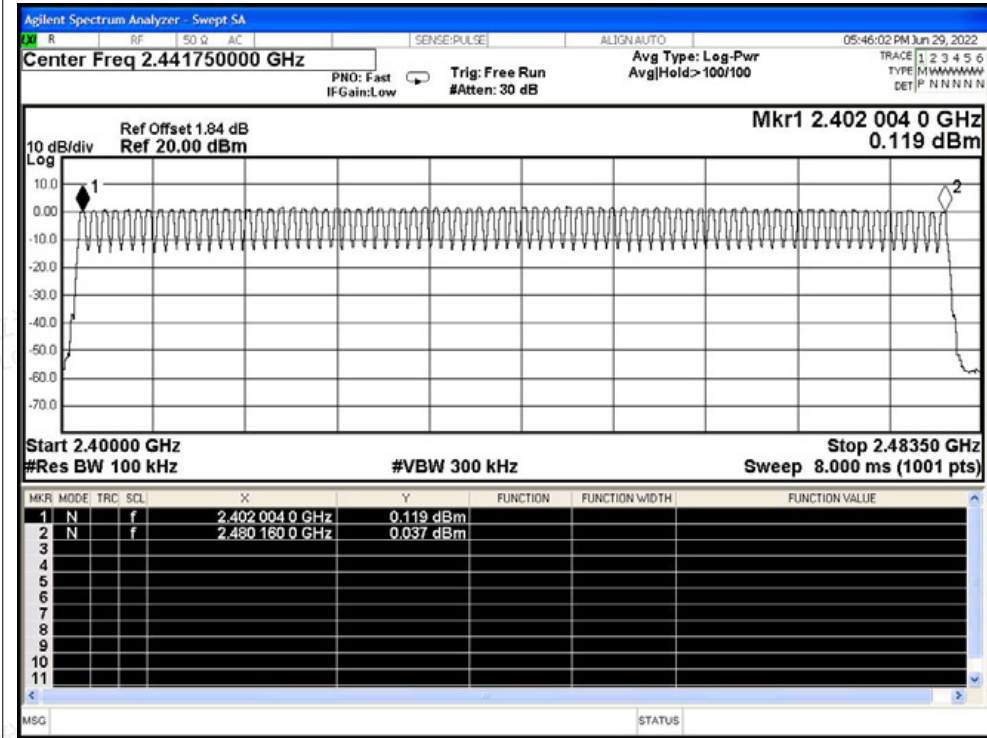
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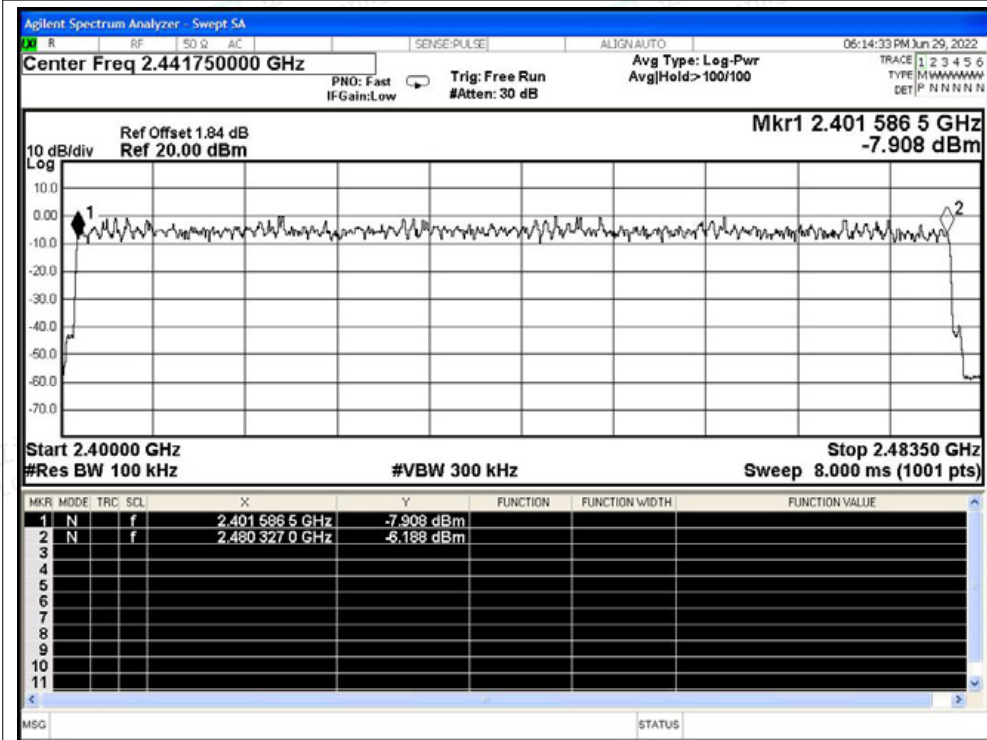


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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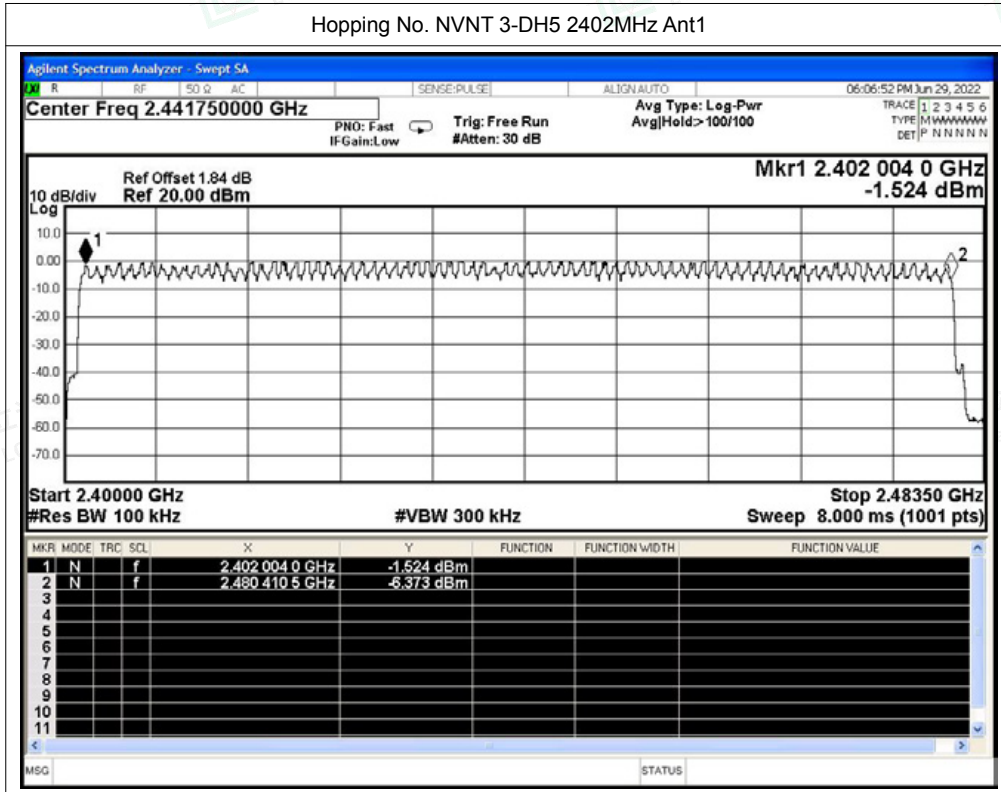
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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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	-56.54	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.11	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.62	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.53	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.42	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.88	-20	Pass



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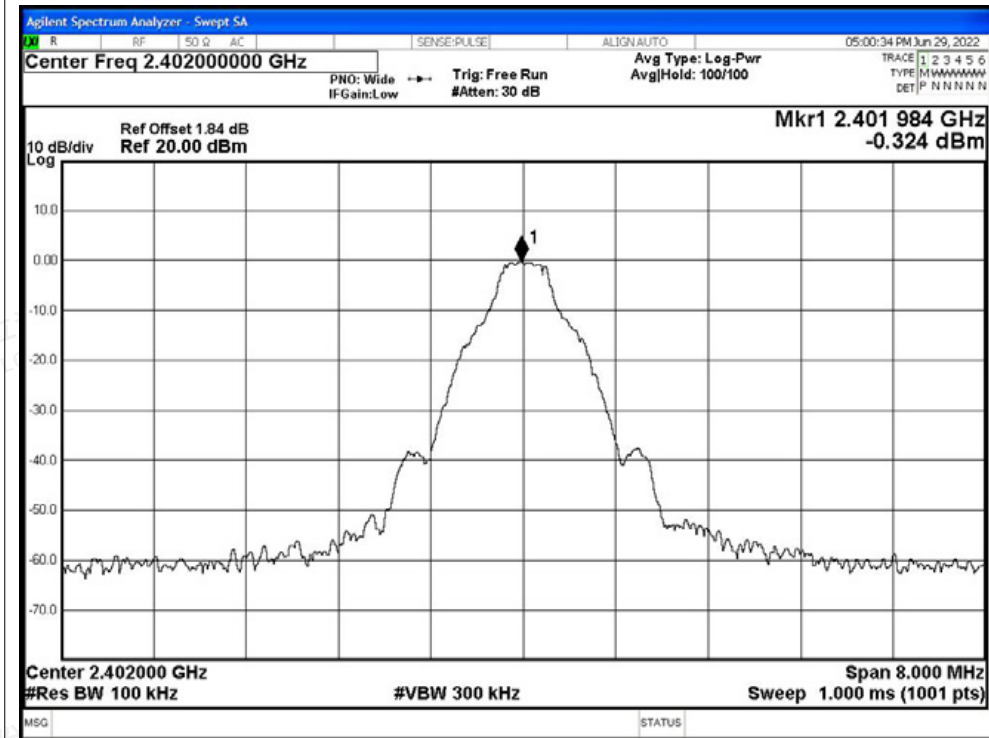
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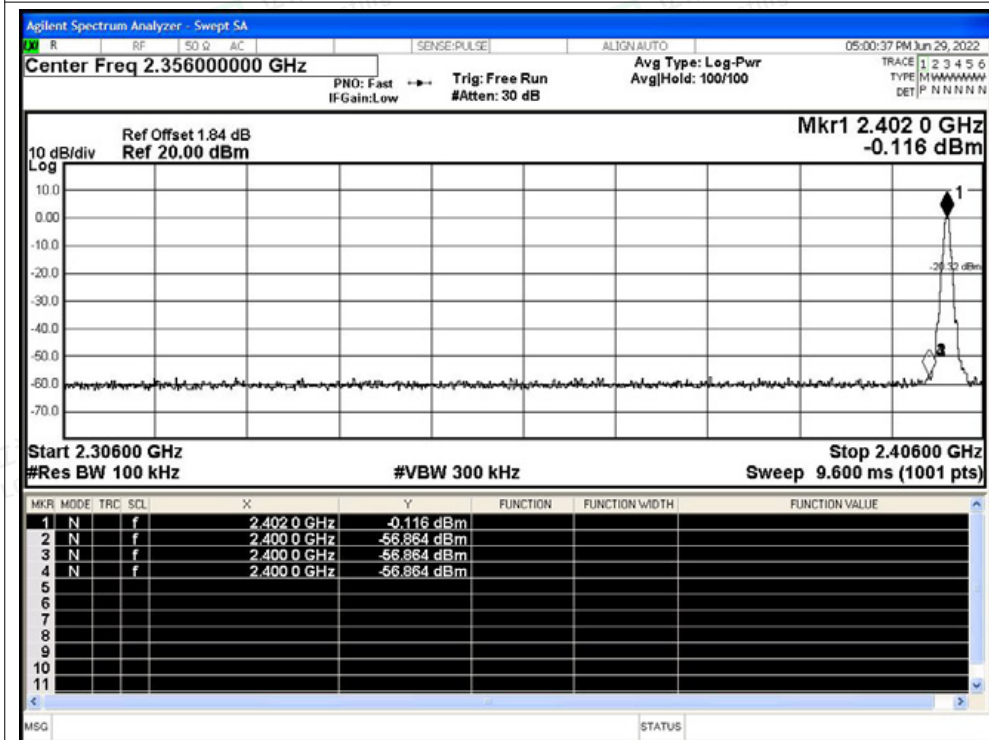


Test Graphs

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



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



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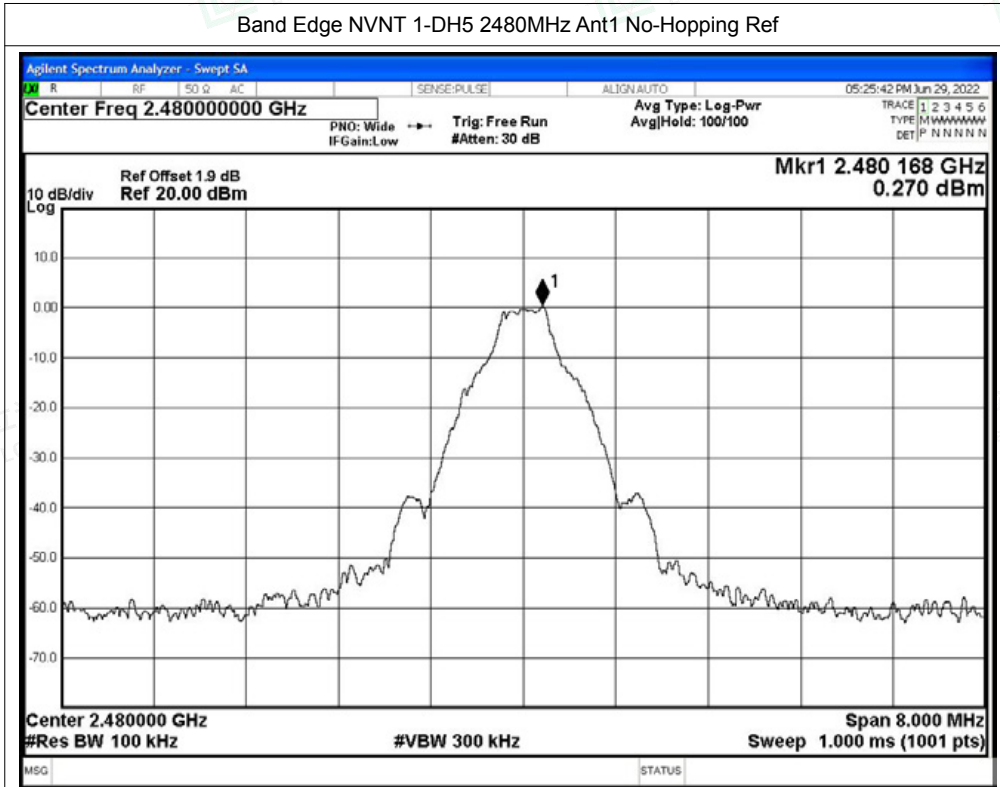
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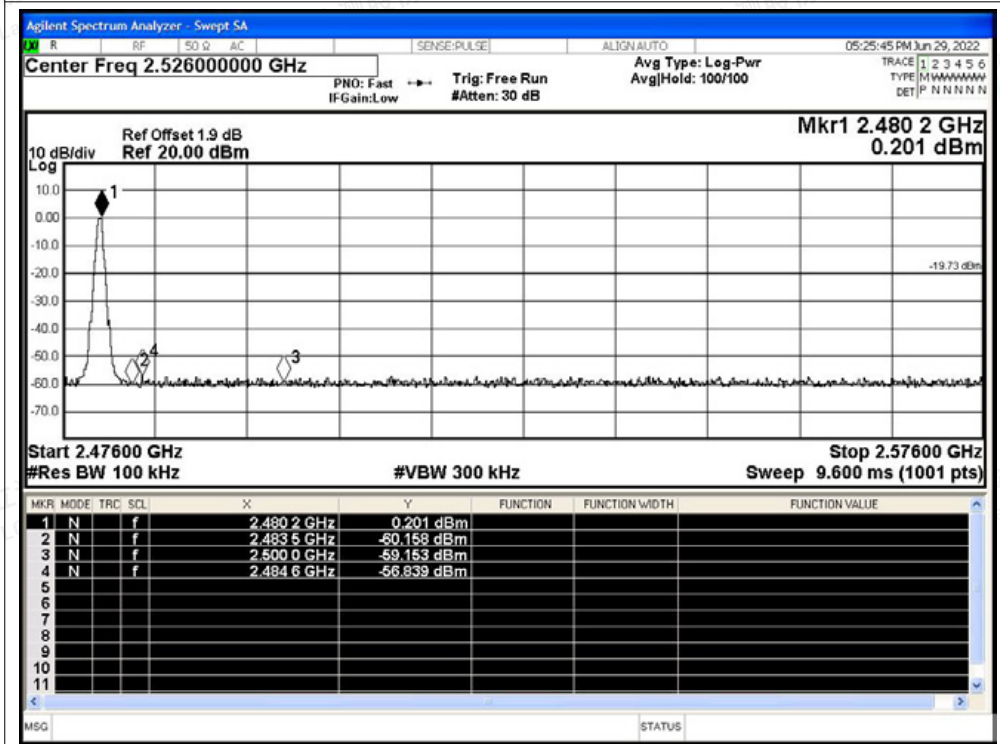
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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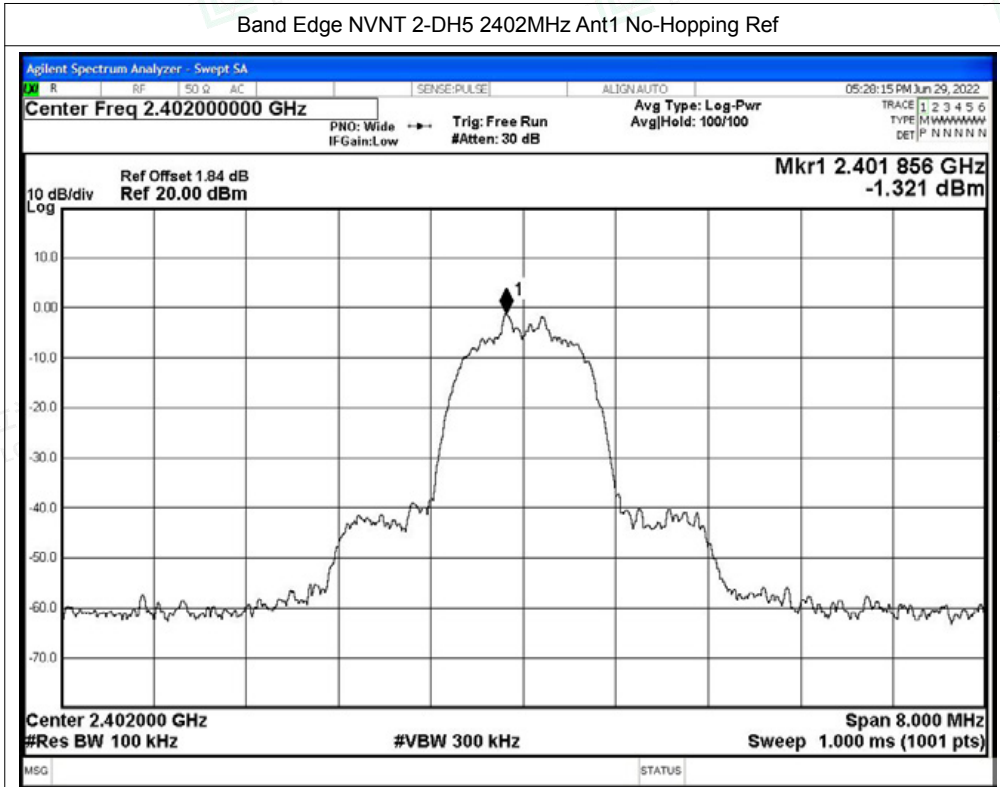
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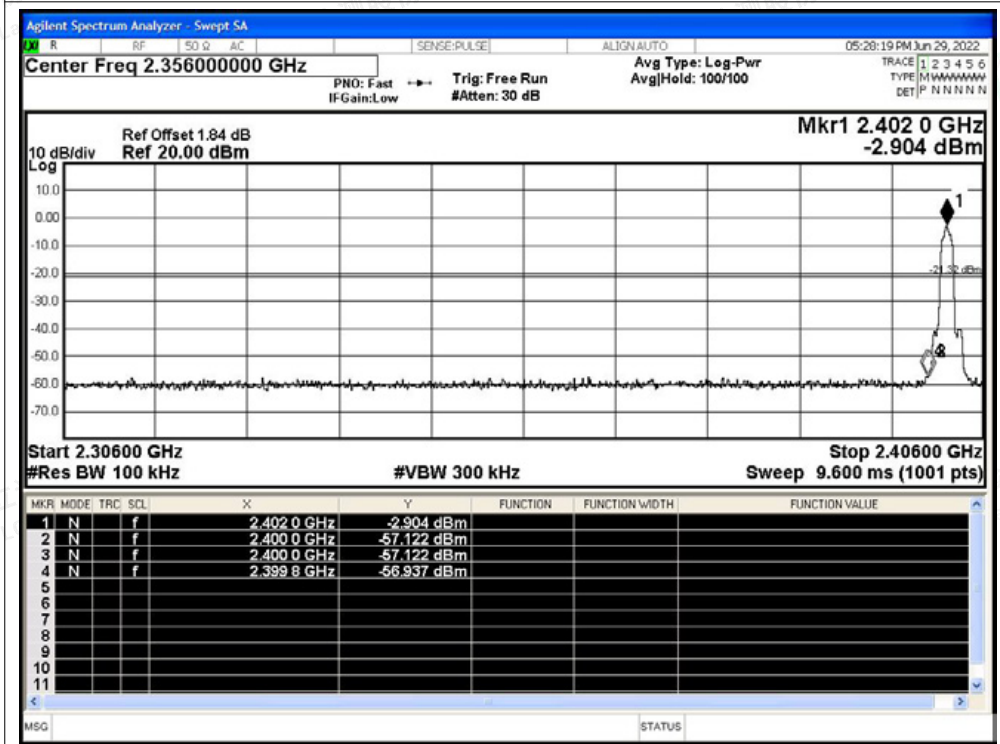
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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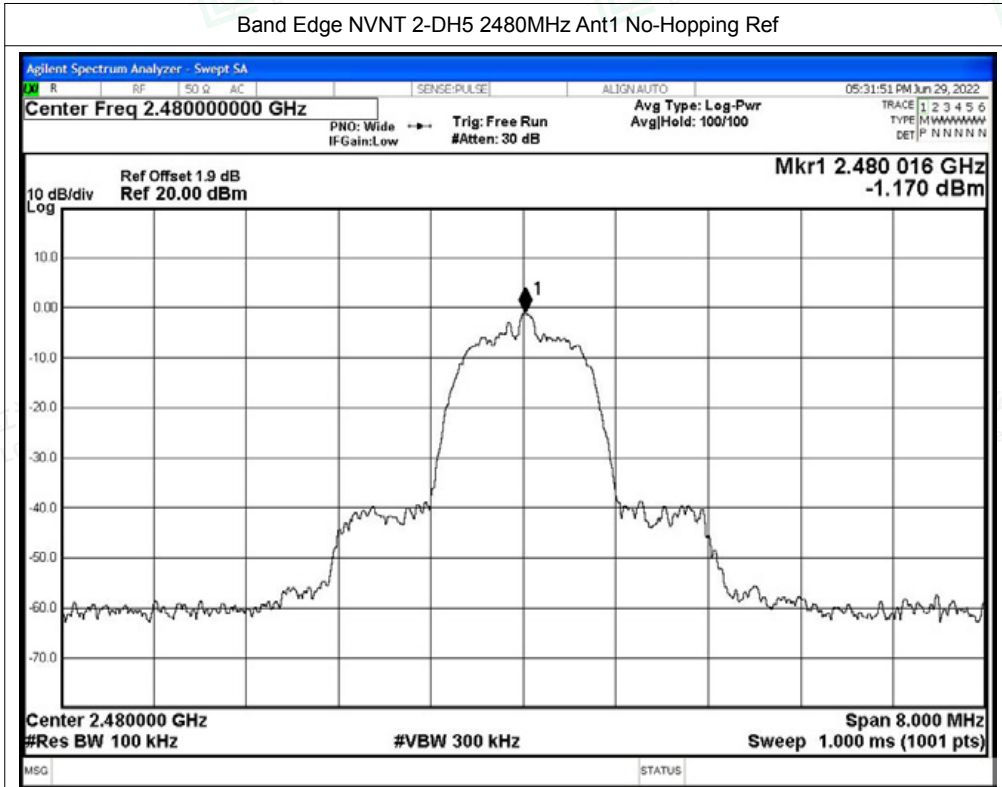
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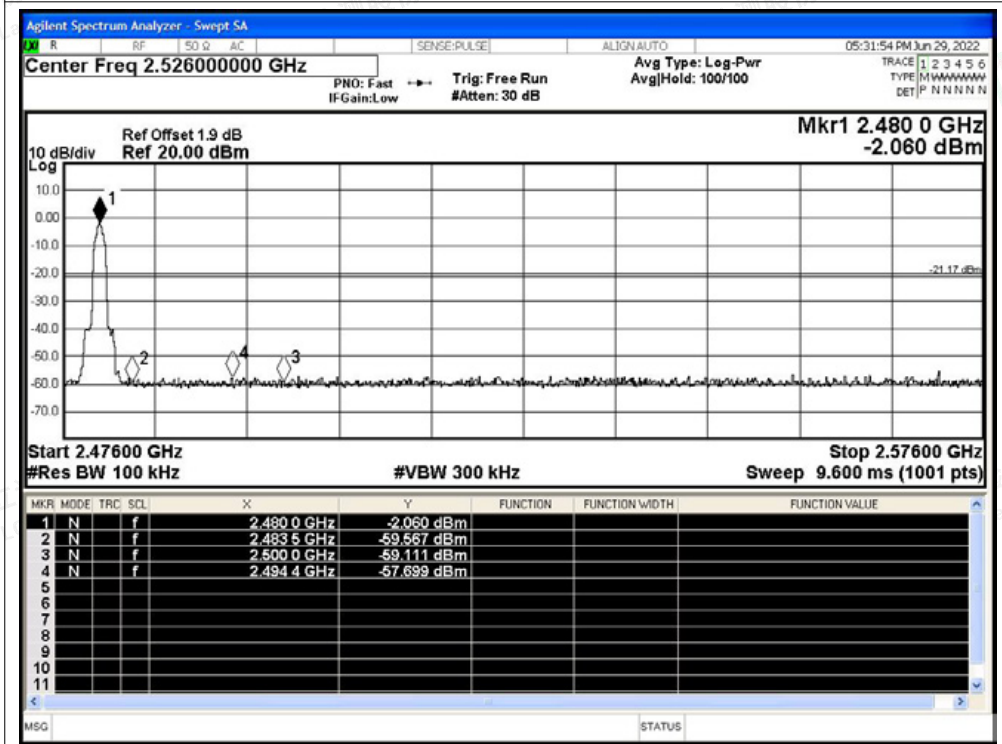
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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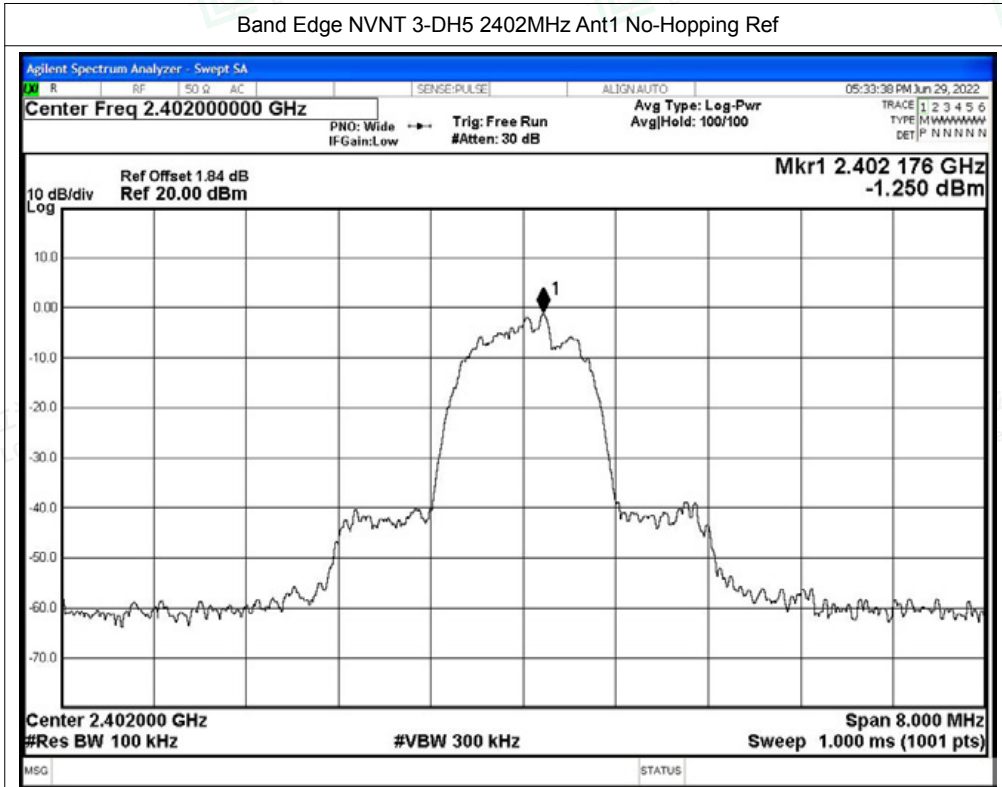
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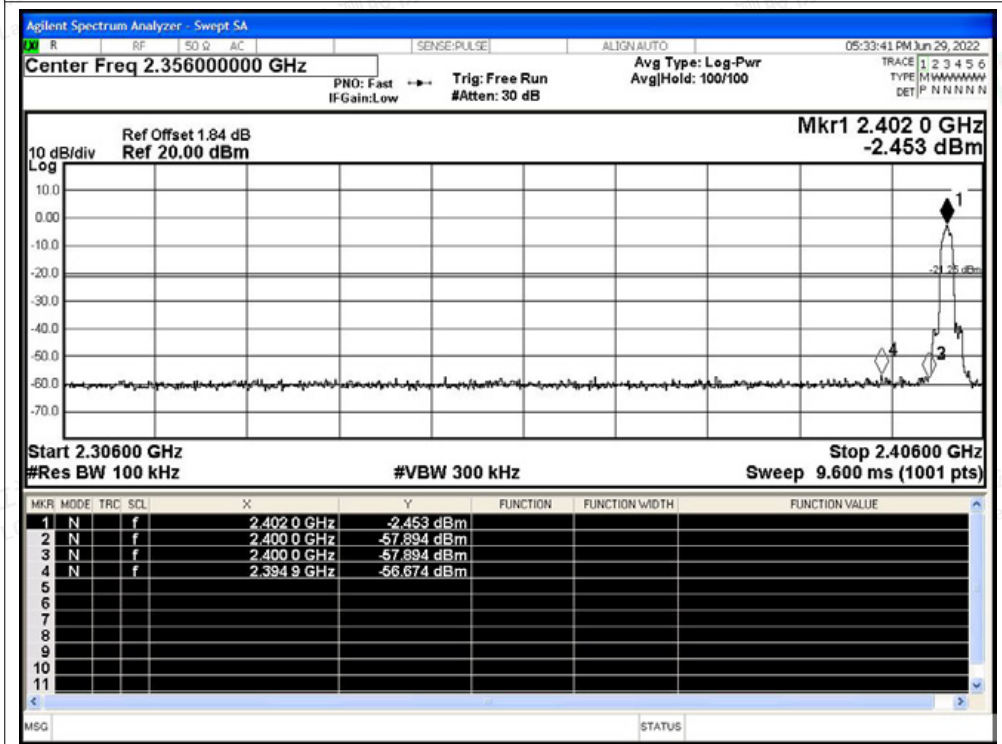
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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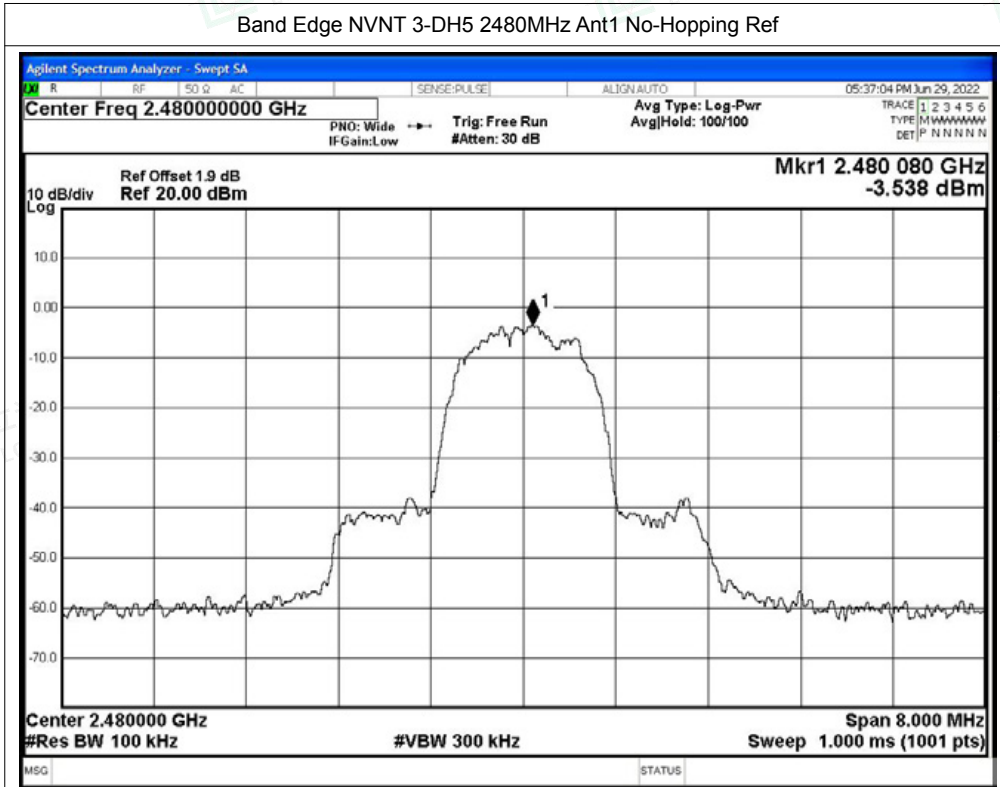
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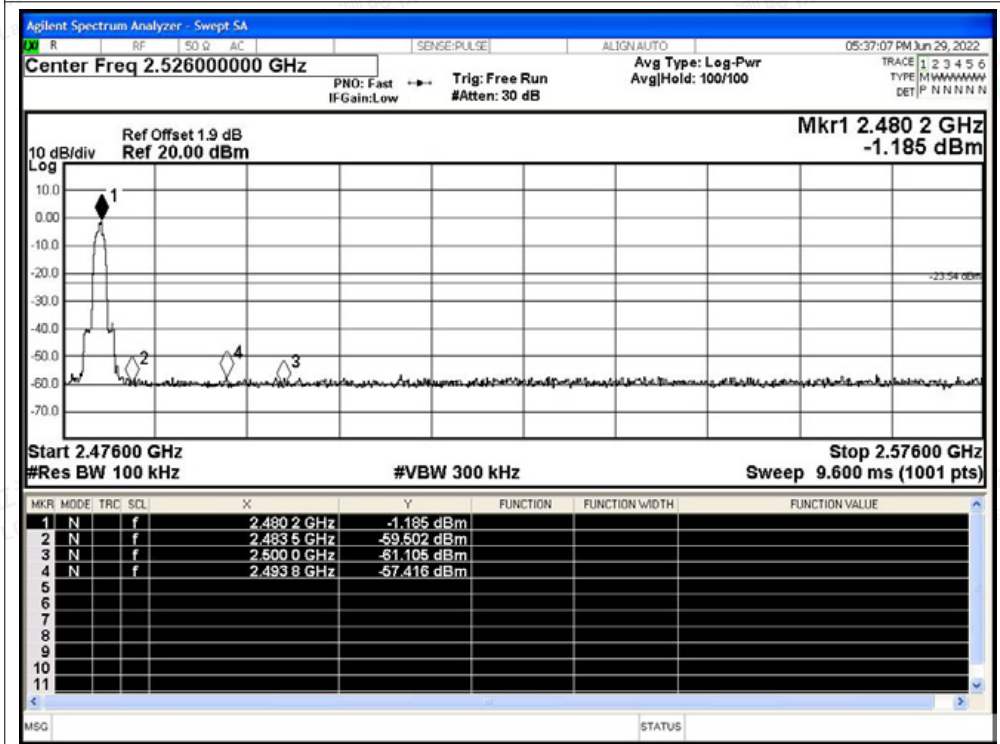
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.58	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.18	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.78	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.34	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.11	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.4	-20	Pass



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