



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart phone

Test Model: Smooth 5.0 2022

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	0	Pass
NVNT	1-DH5	2441	Ant1	0.943	0	Pass
NVNT	1-DH5	2480	Ant1	0.938	0	Pass
NVNT	2-DH5	2402	Ant1	1.281	0	Pass
NVNT	2-DH5	2441	Ant1	1.315	0	Pass
NVNT	2-DH5	2480	Ant1	1.286	0	Pass
NVNT	3-DH5	2402	Ant1	1.295	0	Pass
NVNT	3-DH5	2441	Ant1	1.31	0	Pass
NVNT	3-DH5	2480	Ant1	1.316	0	Pass

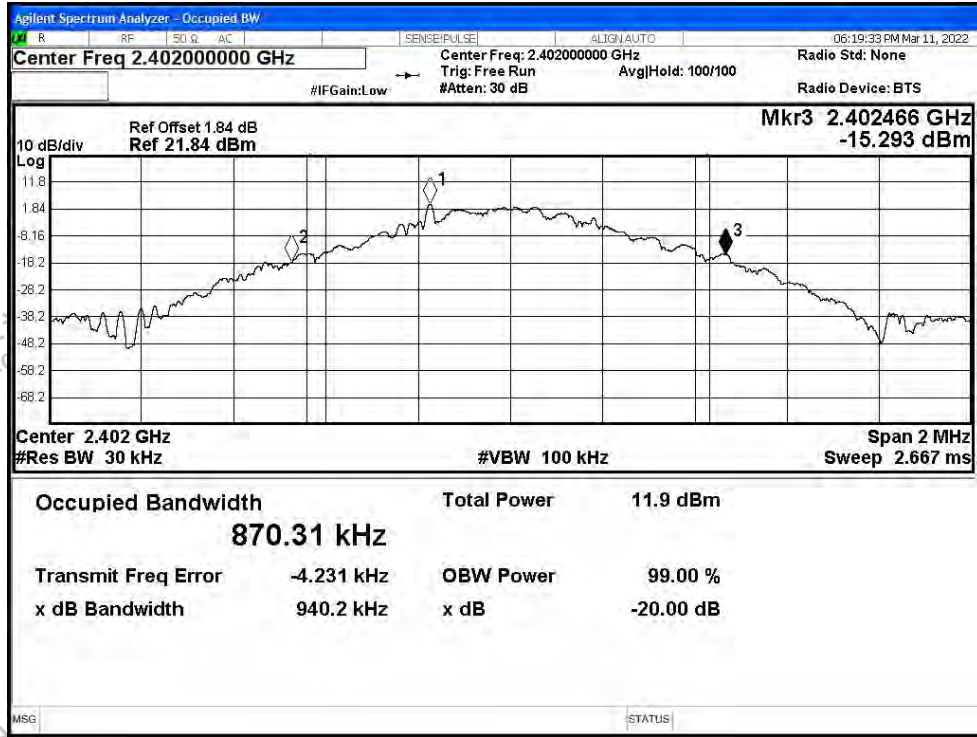


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Test Graphs

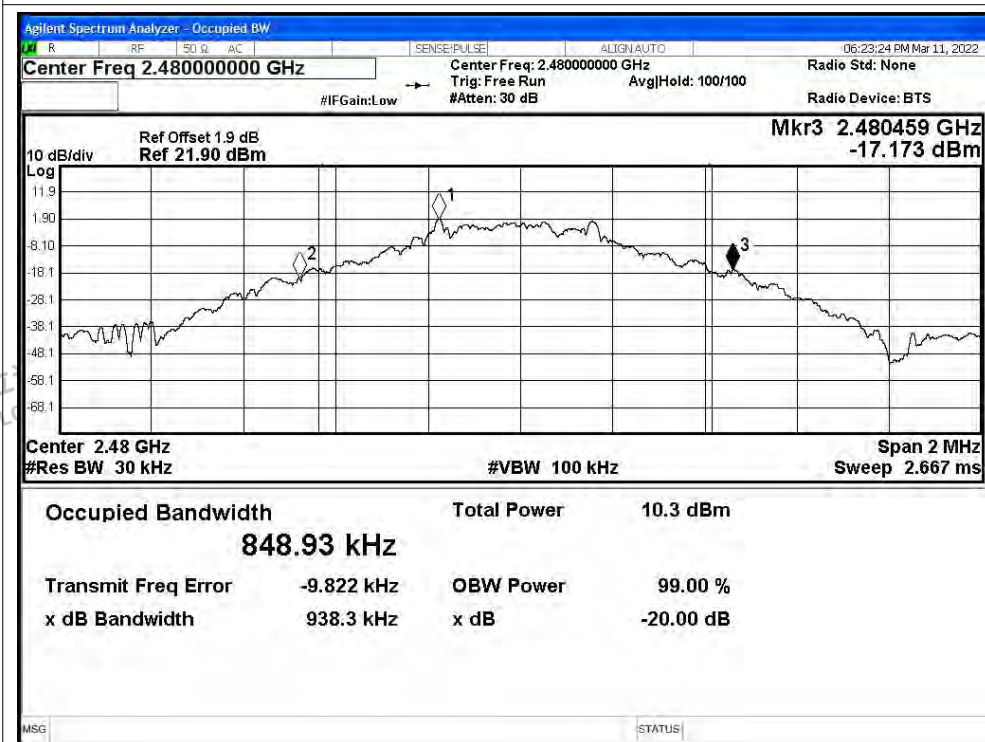
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



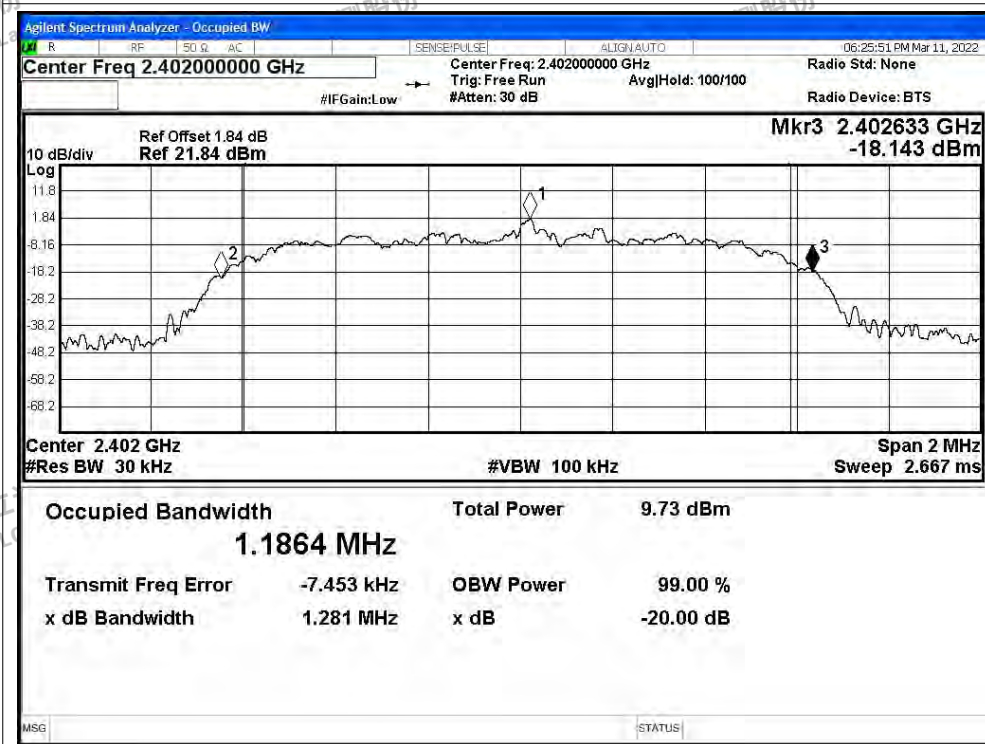
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



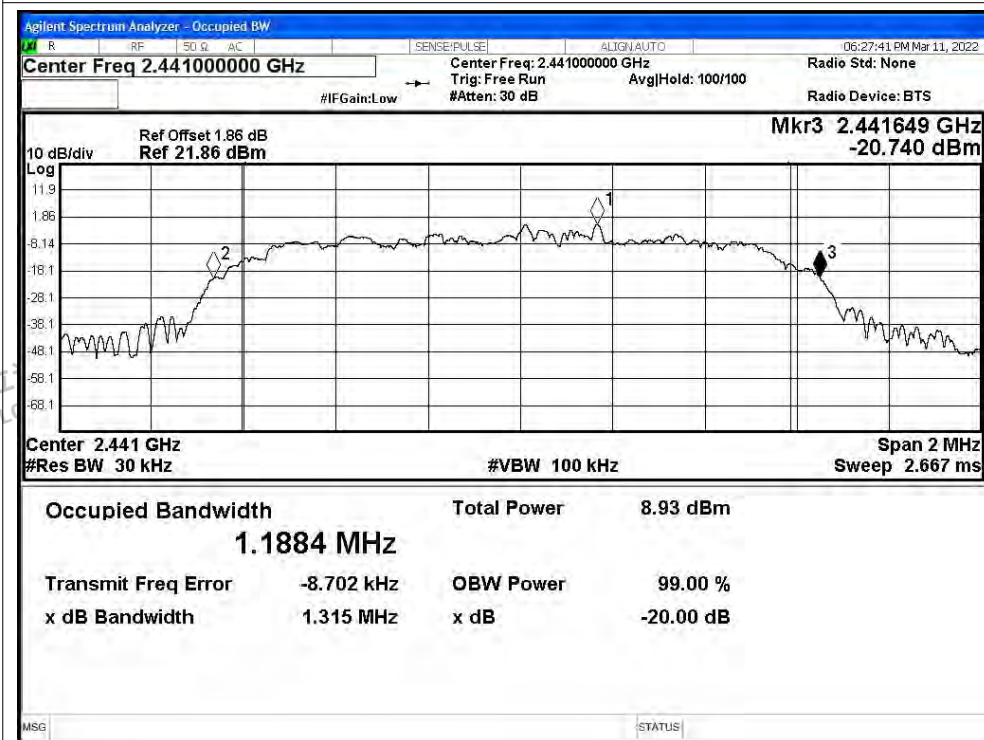
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



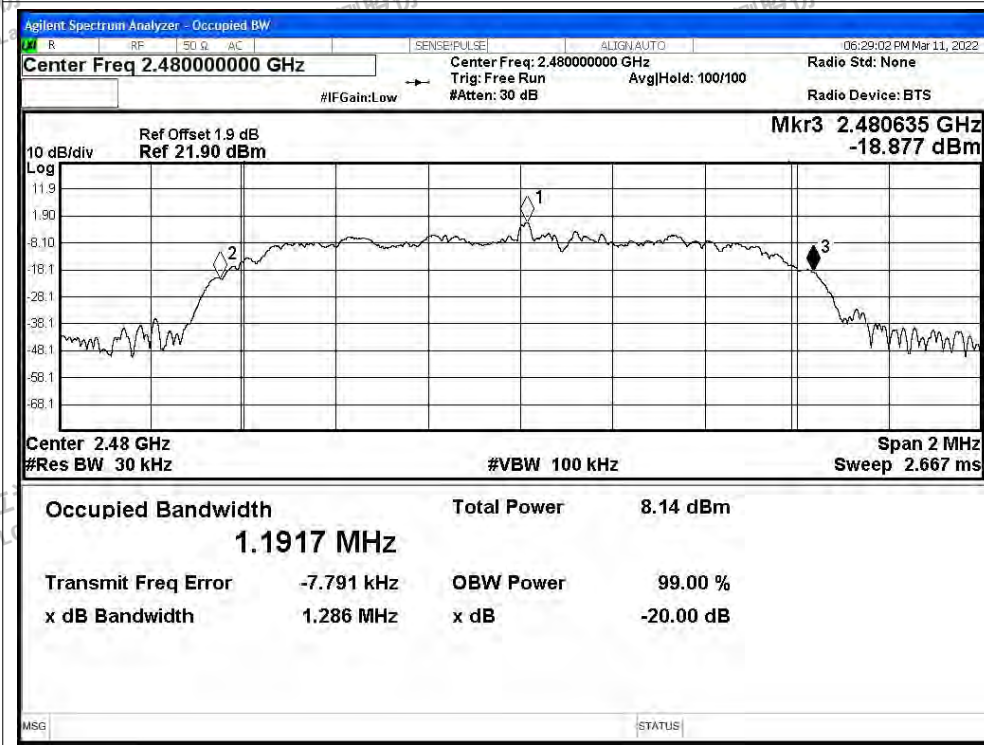
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



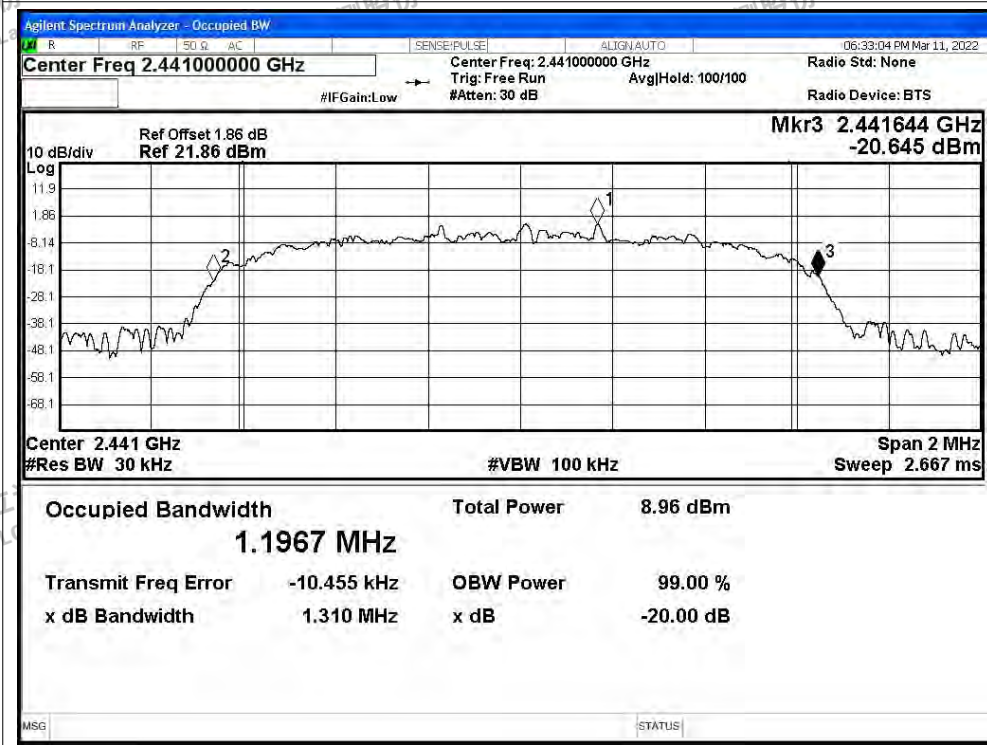
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





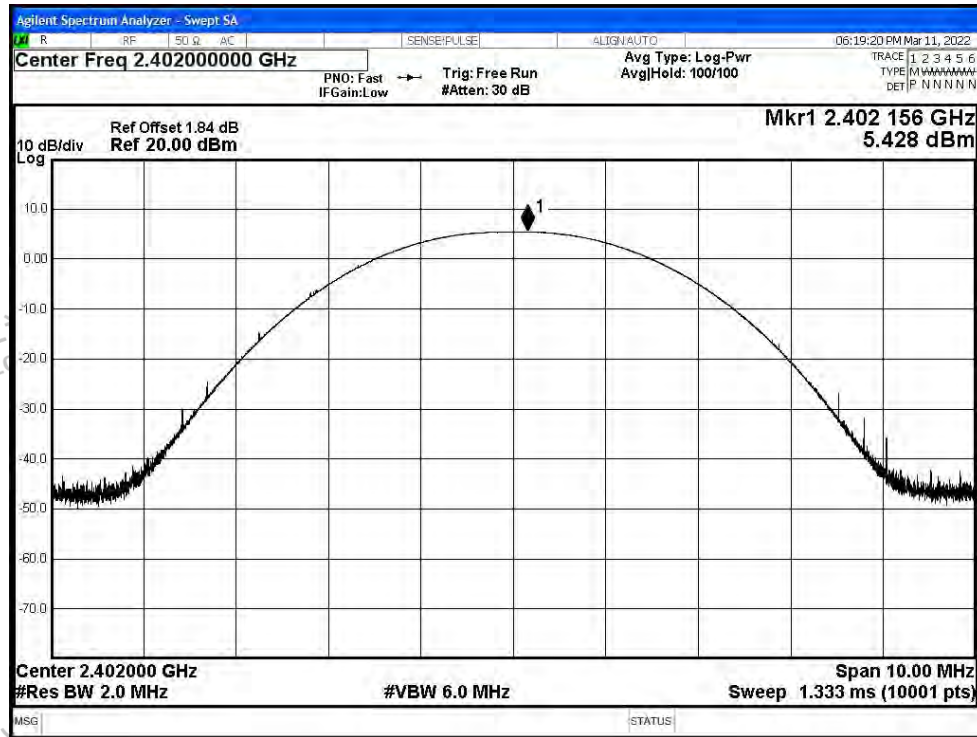
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.43	0	5.43	21	Pass
NVNT	1-DH5	2441	Ant1	4.25	0	4.25	21	Pass
NVNT	1-DH5	2480	Ant1	3.59	0	3.59	21	Pass
NVNT	2-DH5	2402	Ant1	5.41	0	5.41	21	Pass
NVNT	2-DH5	2441	Ant1	4.87	0	4.87	21	Pass
NVNT	2-DH5	2480	Ant1	4.1	0	4.1	21	Pass
NVNT	3-DH5	2402	Ant1	5.64	0	5.64	21	Pass
NVNT	3-DH5	2441	Ant1	5.14	0	5.14	21	Pass
NVNT	3-DH5	2480	Ant1	4.52	0	4.52	21	Pass

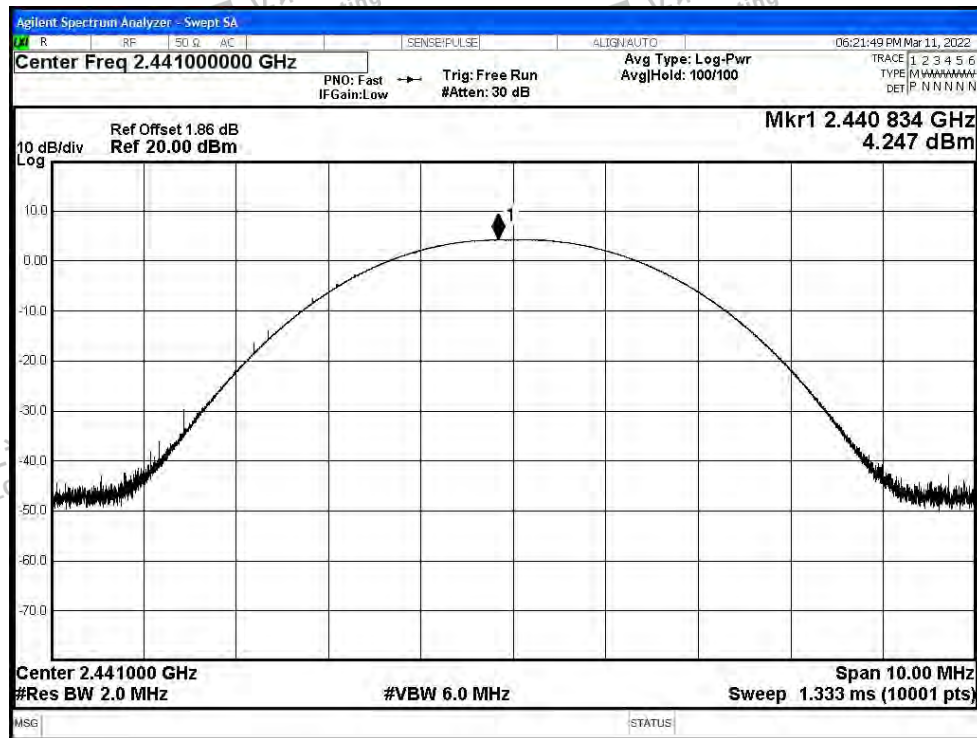


Test Graphs

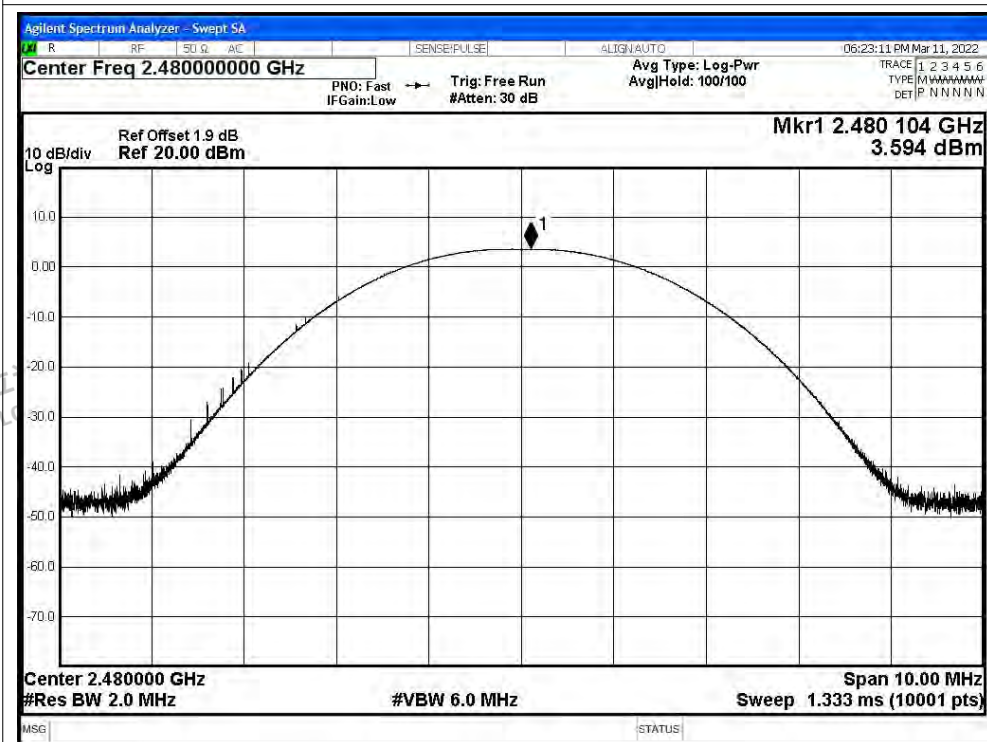
Power NVNT 1-DH5 2402MHz Ant1



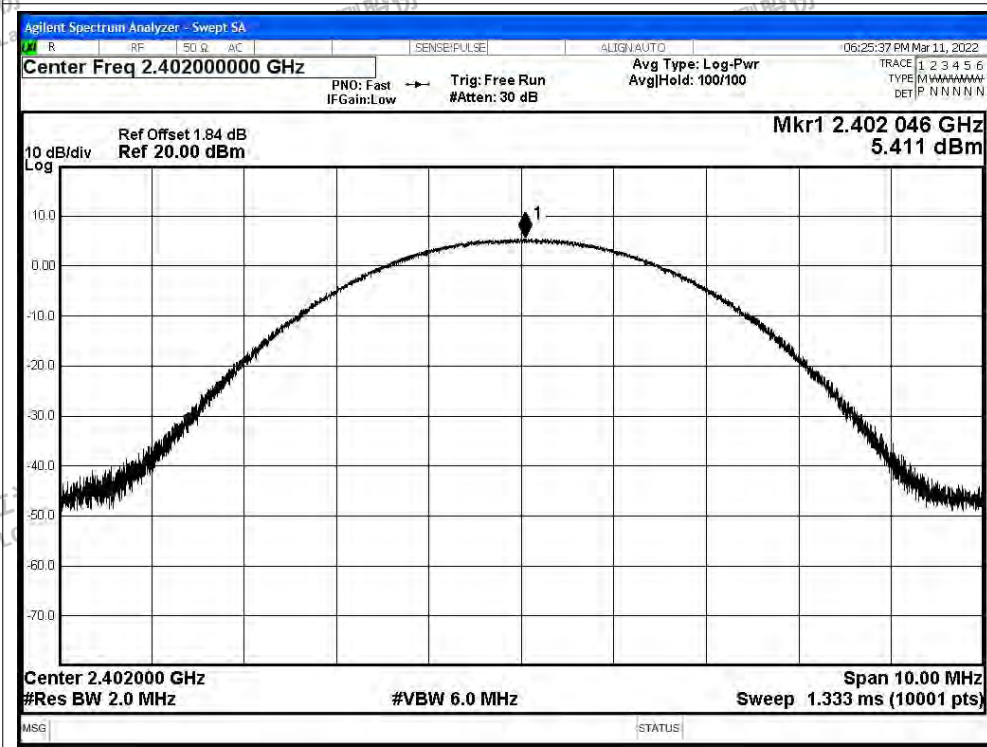
Power NVNT 1-DH5 2441MHz Ant1



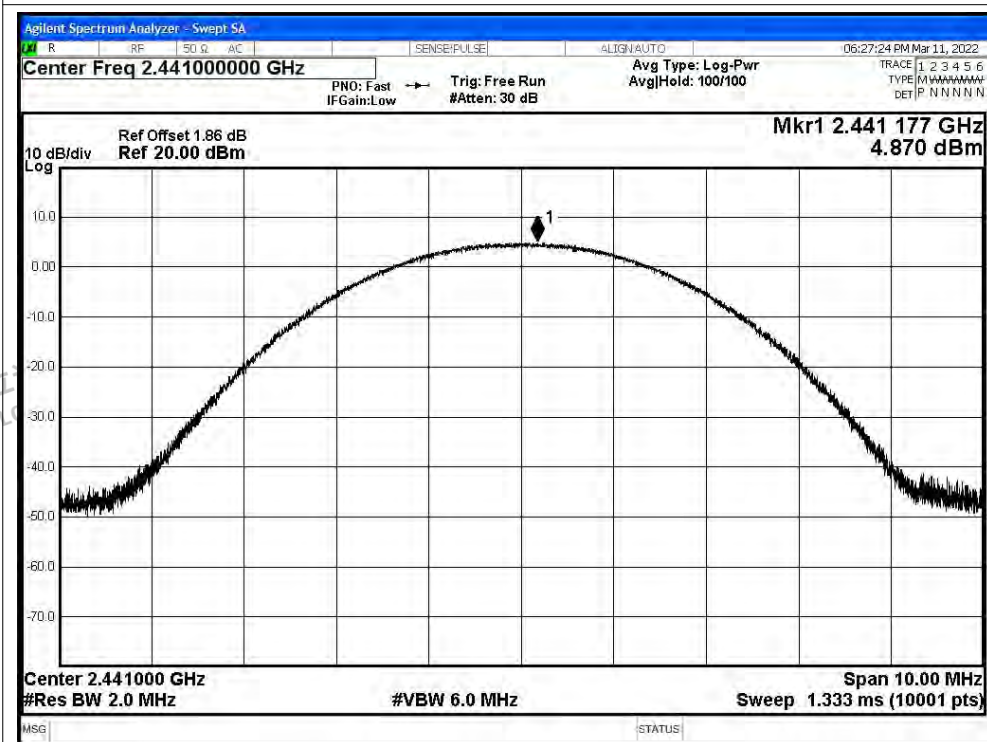
Power NVNT 1-DH5 2480MHz Ant1



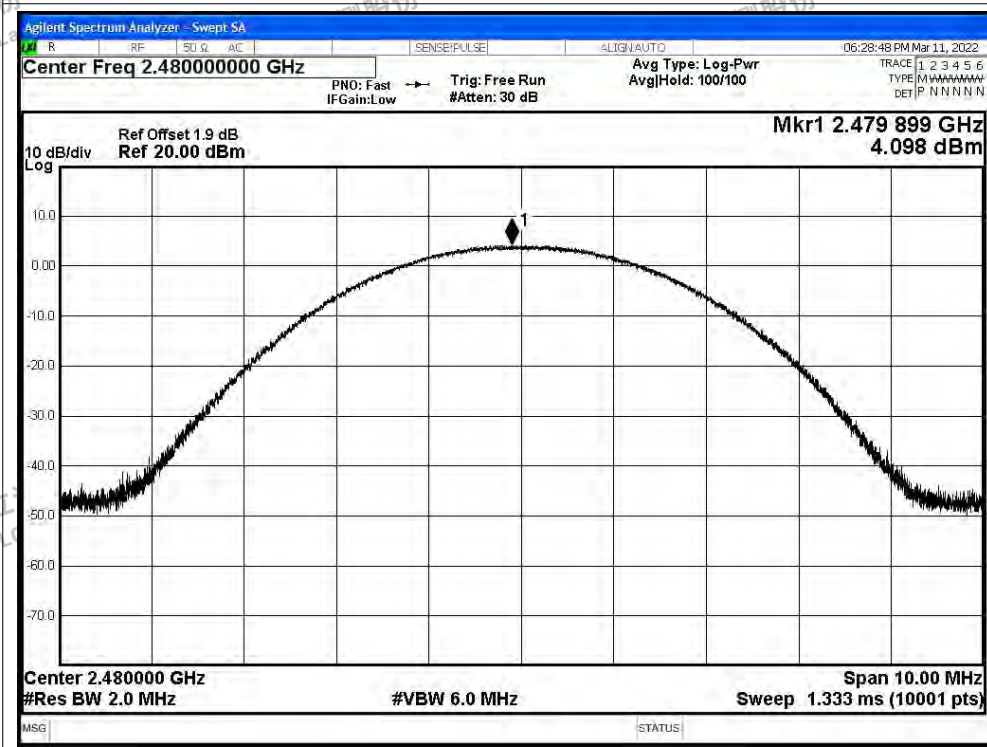
Power NVNT 2-DH5 2402MHz Ant1



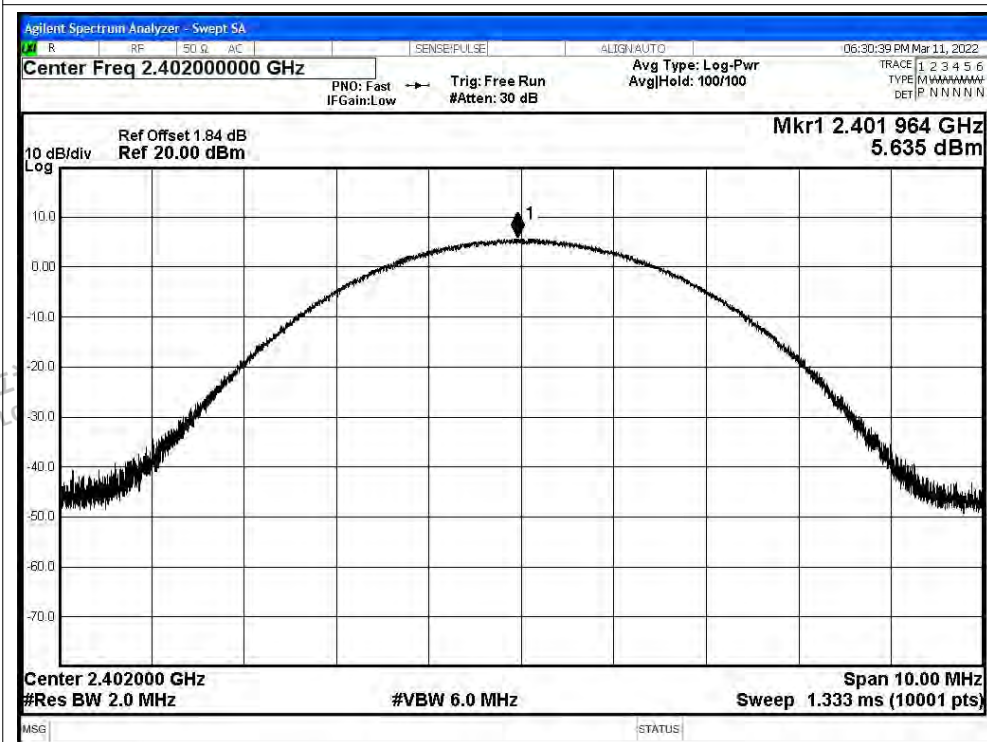
Power NVNT 2-DH5 2441MHz Ant1



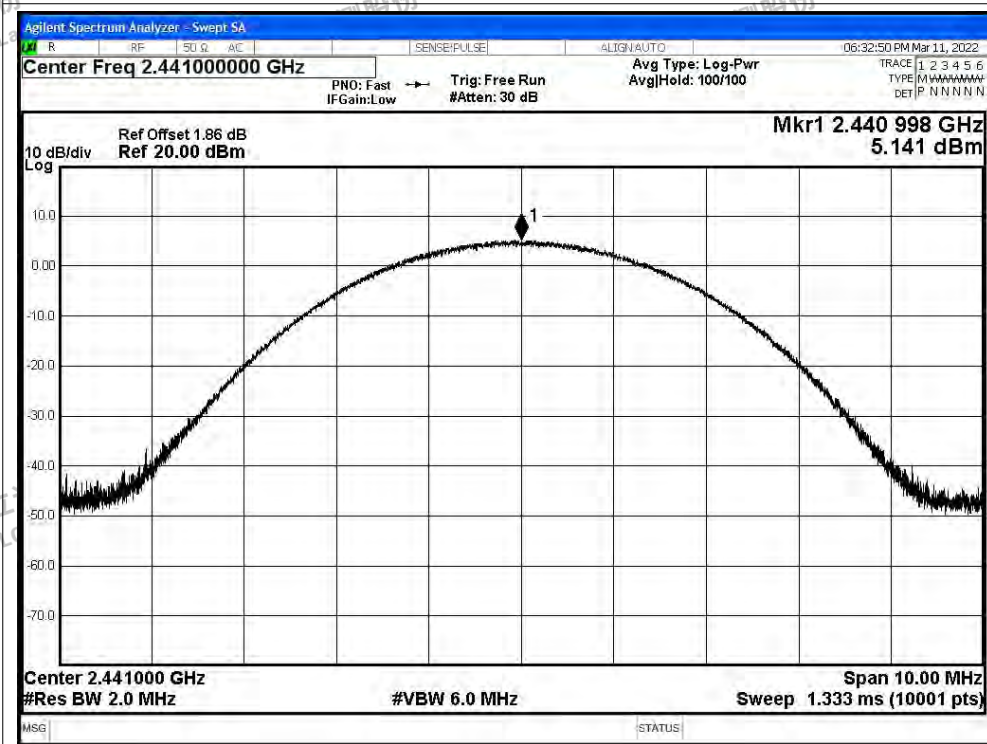
Power NVNT 2-DH5 2480MHz Ant1

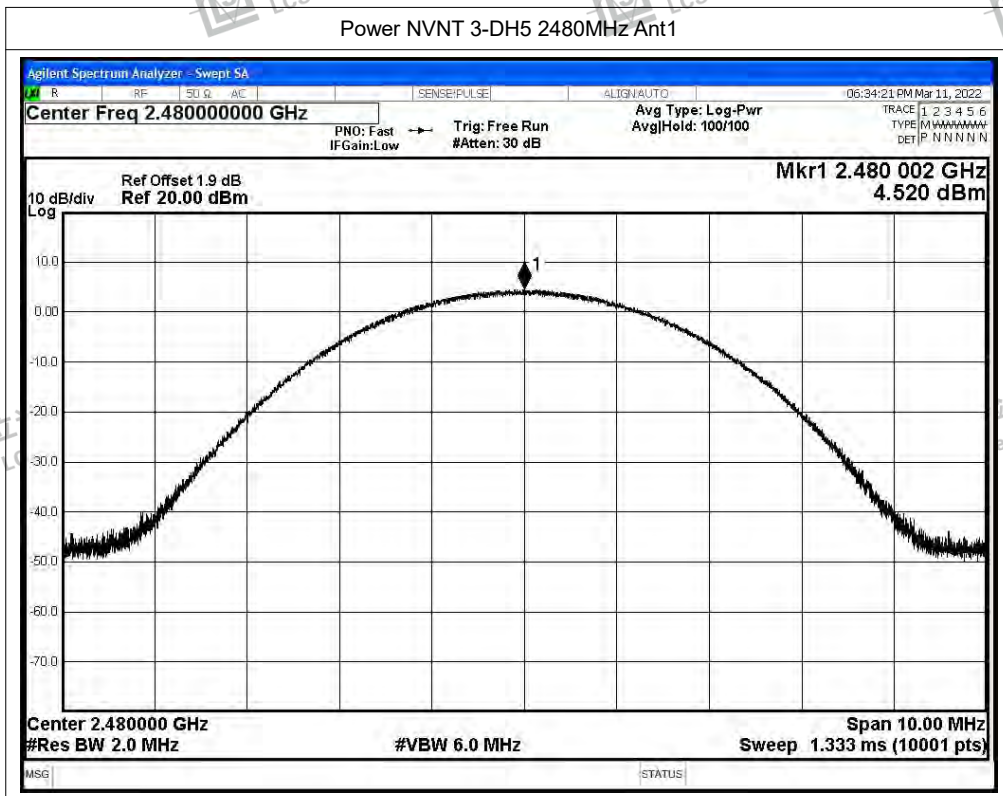


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





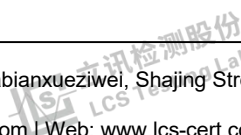
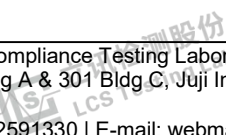


A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2441.052	2442.004	0.952	0.629	Pass
NVNT	2-DH5	Ant1	2441.018	2442.026	1.008	0.877	Pass
NVNT	3-DH5	Ant1	2441.022	2442.154	1.132	0.873	Pass



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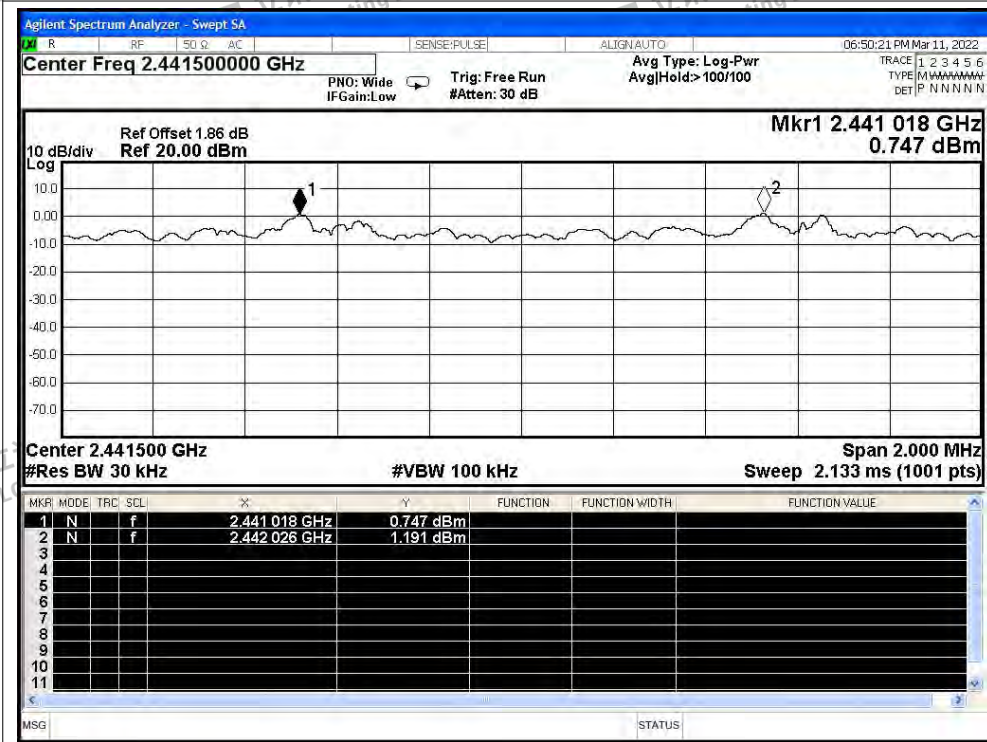


Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1

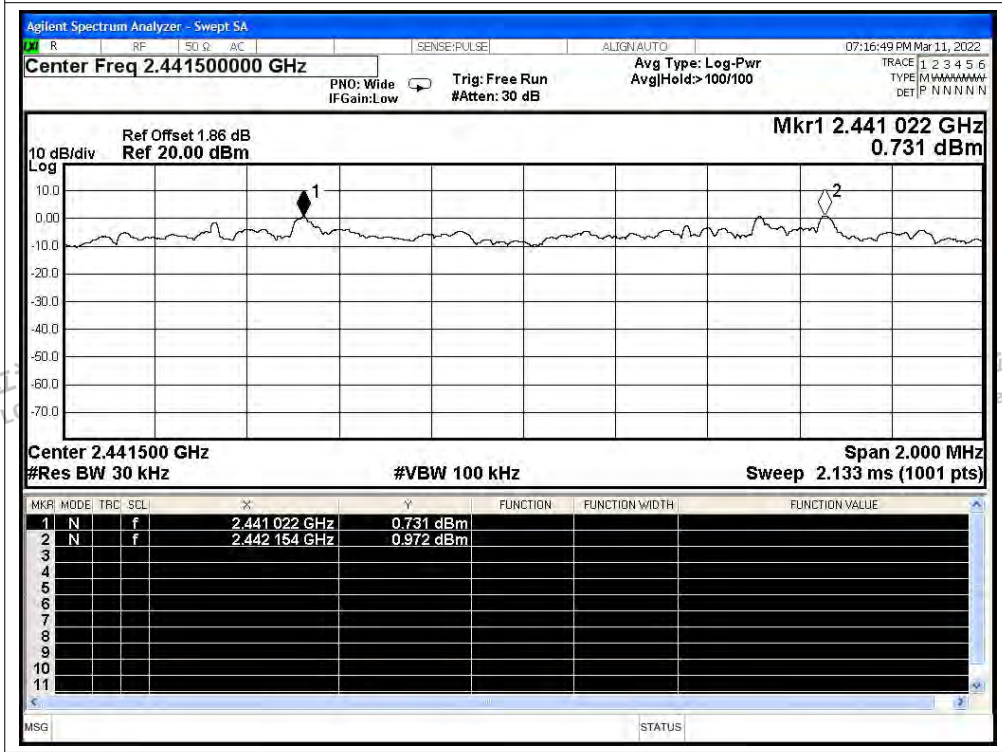


CFS NVNT 2-DH5 2441MHz Ant1

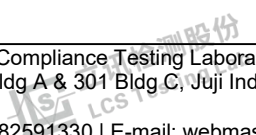




CFS NVNT 3-DH5 2441MHz Ant1



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A.4 Dwell Time

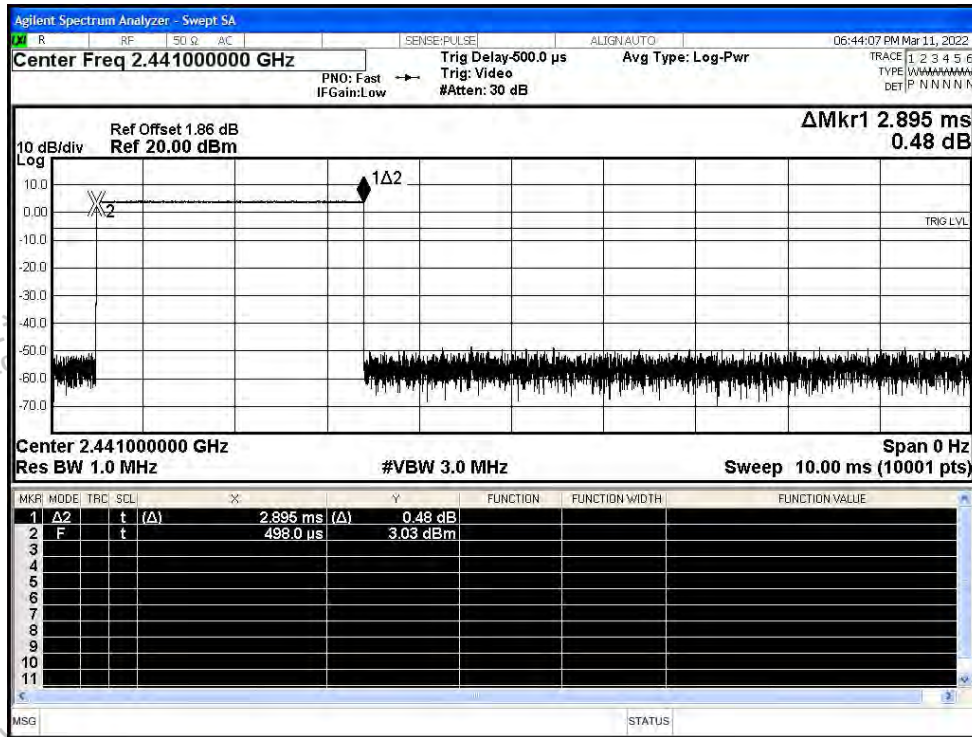
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2441	Ant1	2.895	292.395	101	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	285.516	99	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	348.843	121	31600	400	Pass



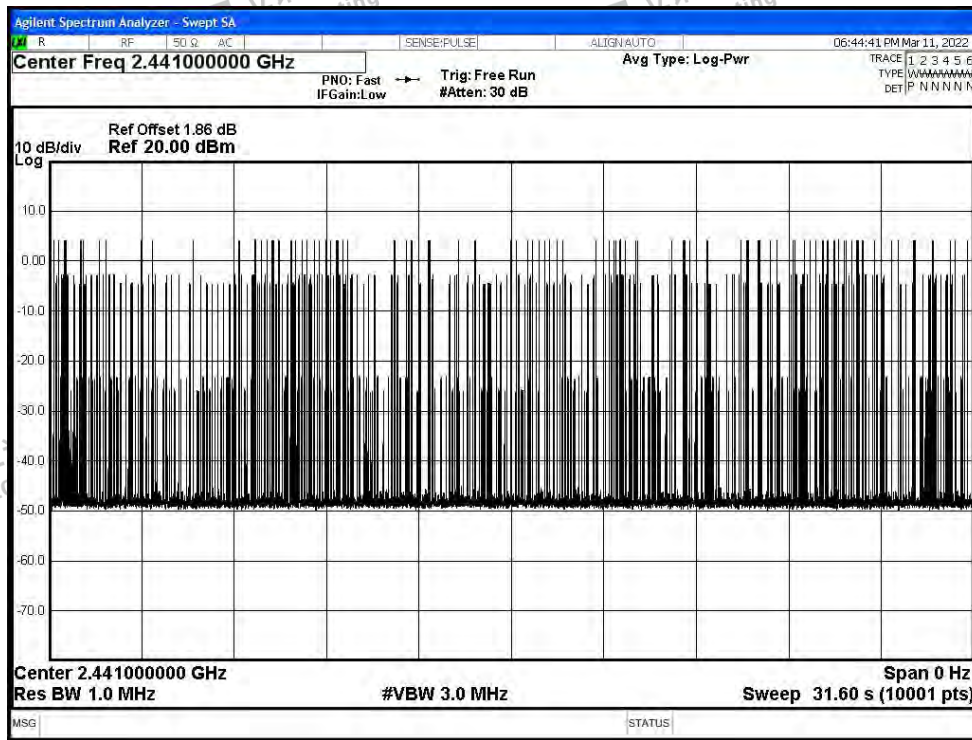
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Test Graphs

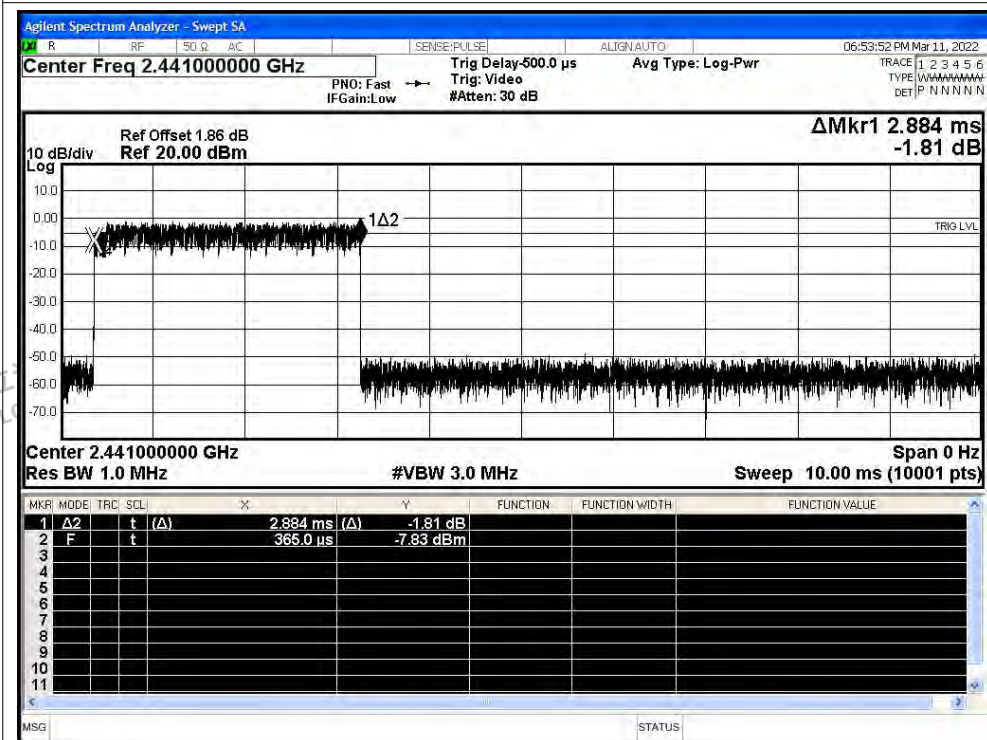
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



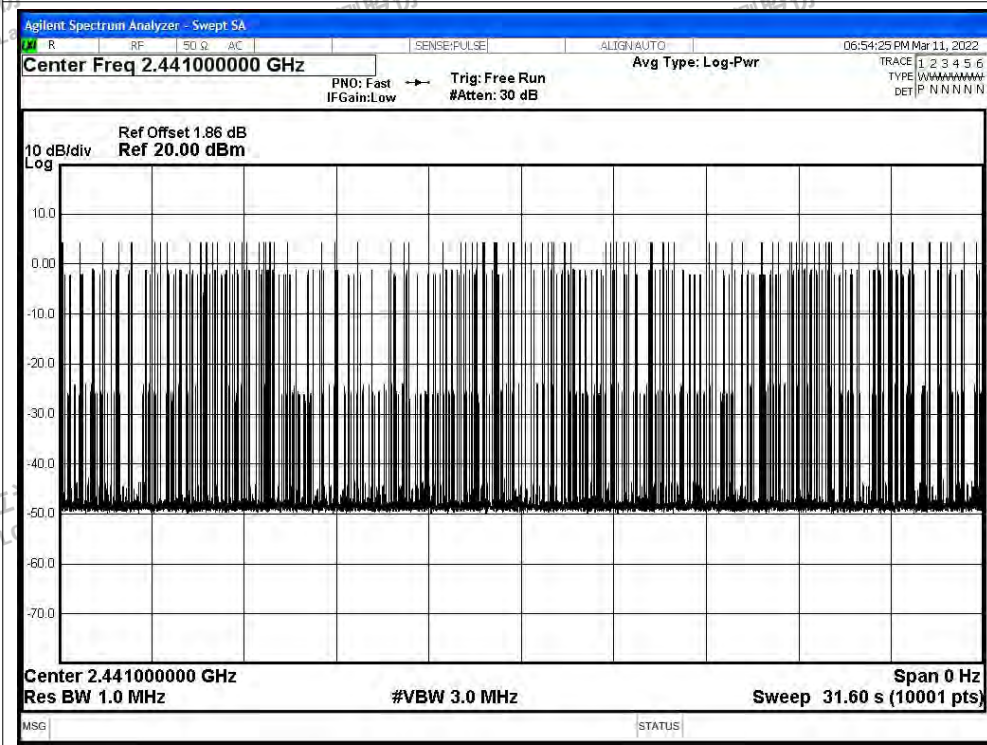
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



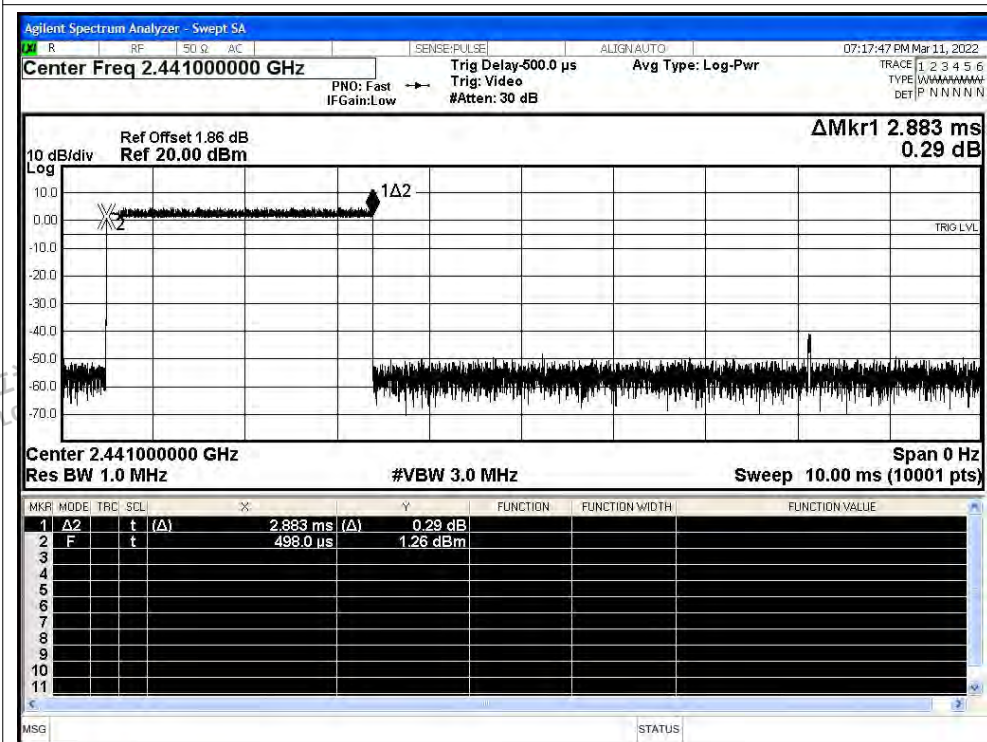
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



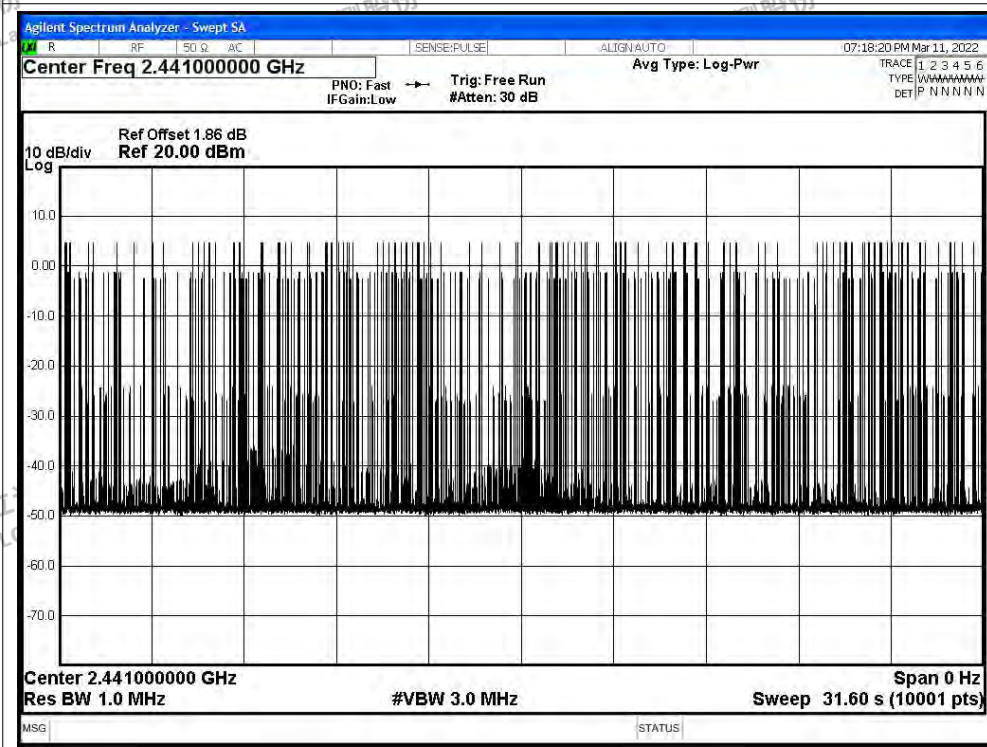
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



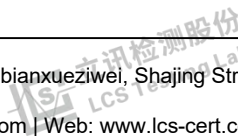
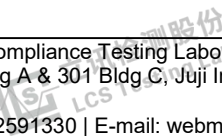


A.5 Number of Hopping Channel

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

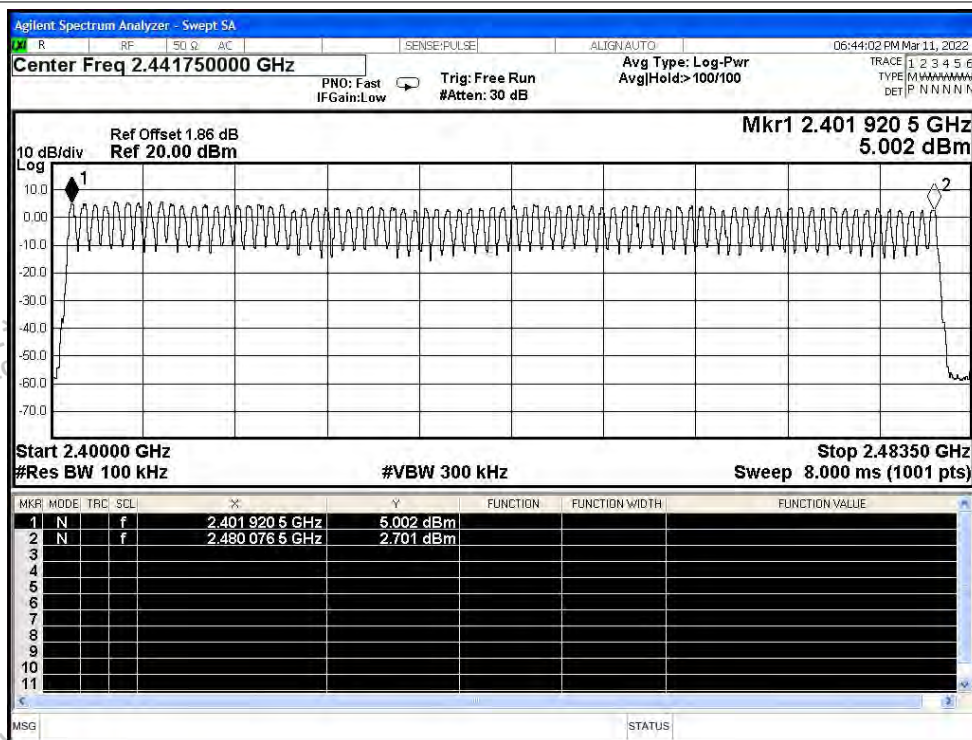


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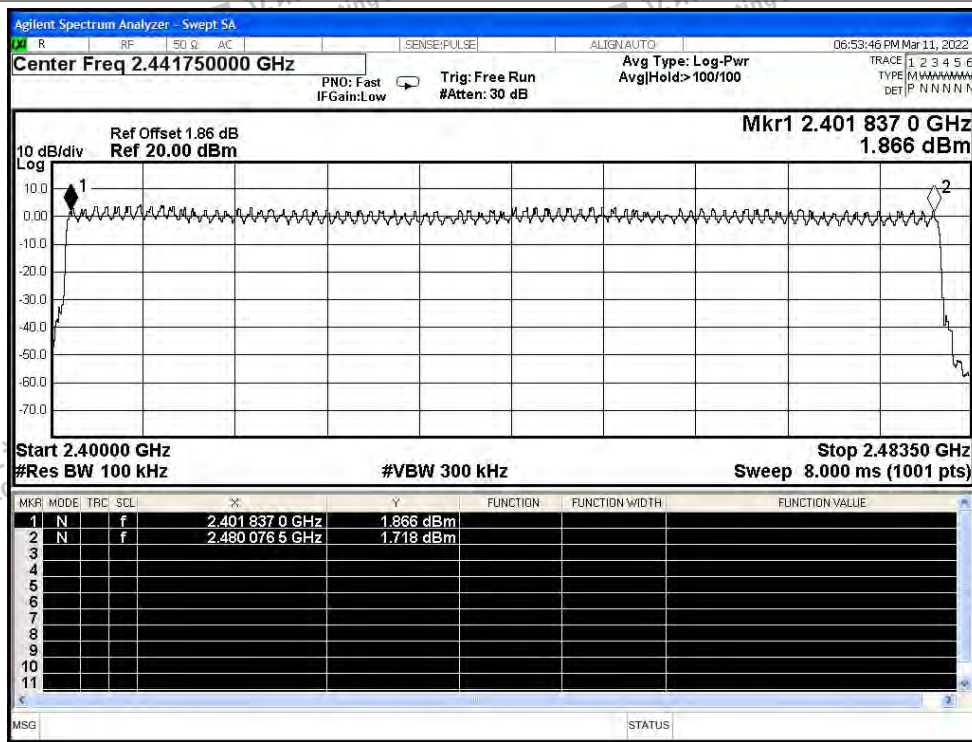


Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1

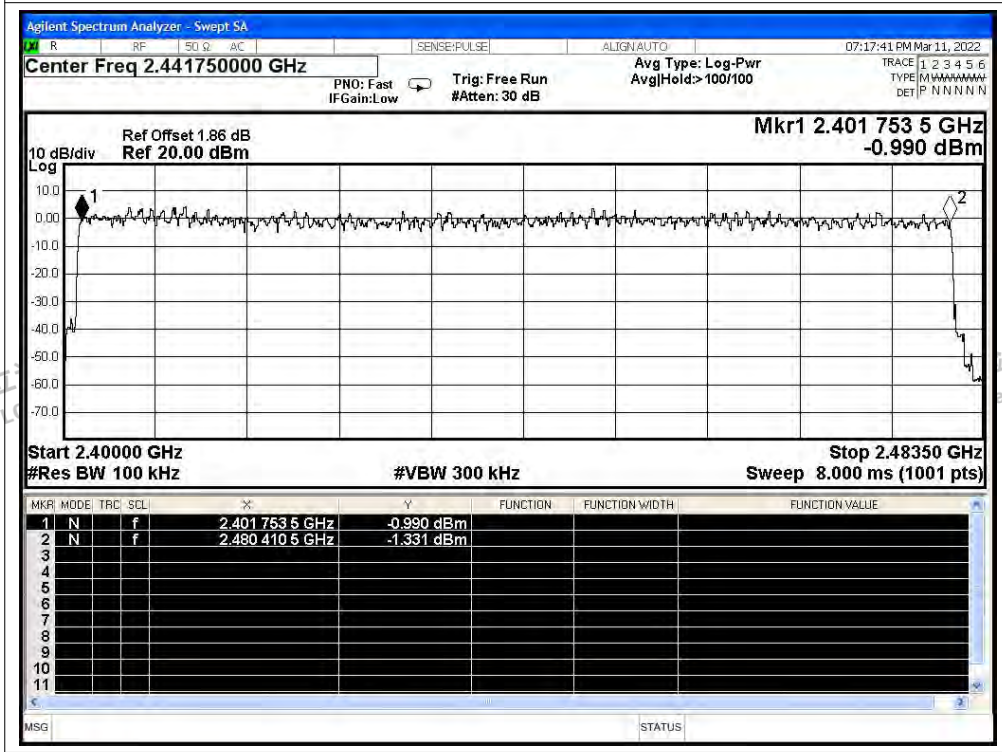


Hopping No. NVNT 2-DH5 2441MHz Ant1

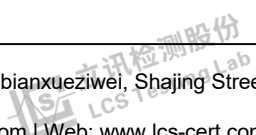
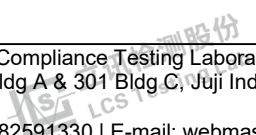




Hopping No. NVNT 3-DH5 2441MHz Ant1



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A.6 Band Edge

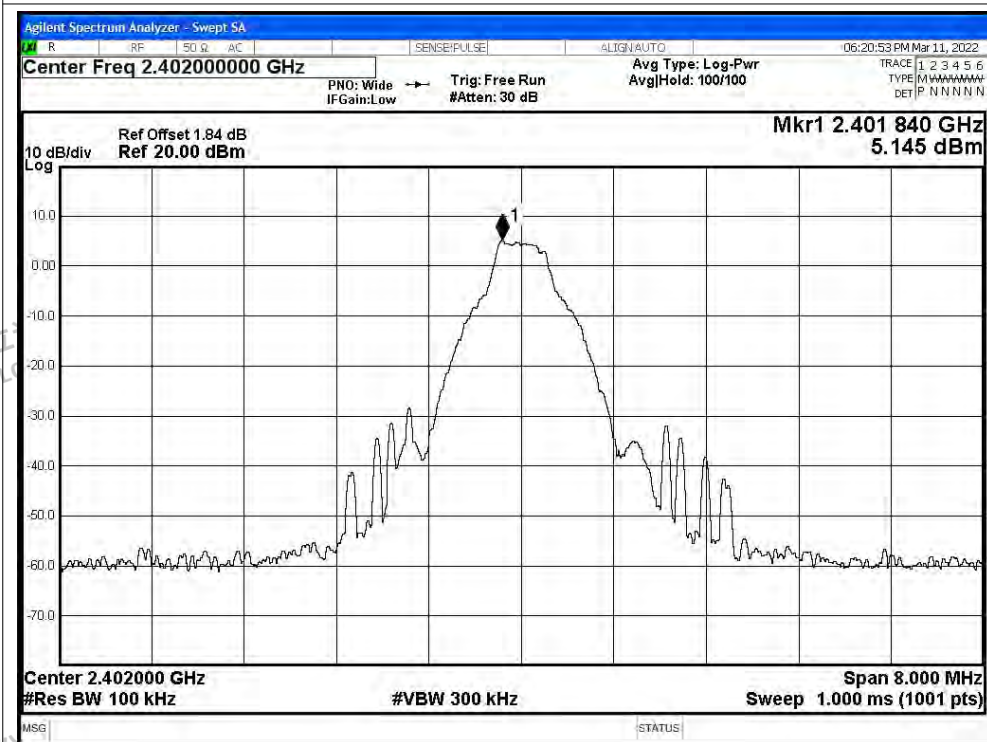
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-59.74	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.55	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.17	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.53	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.24	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.77	-20	Pass



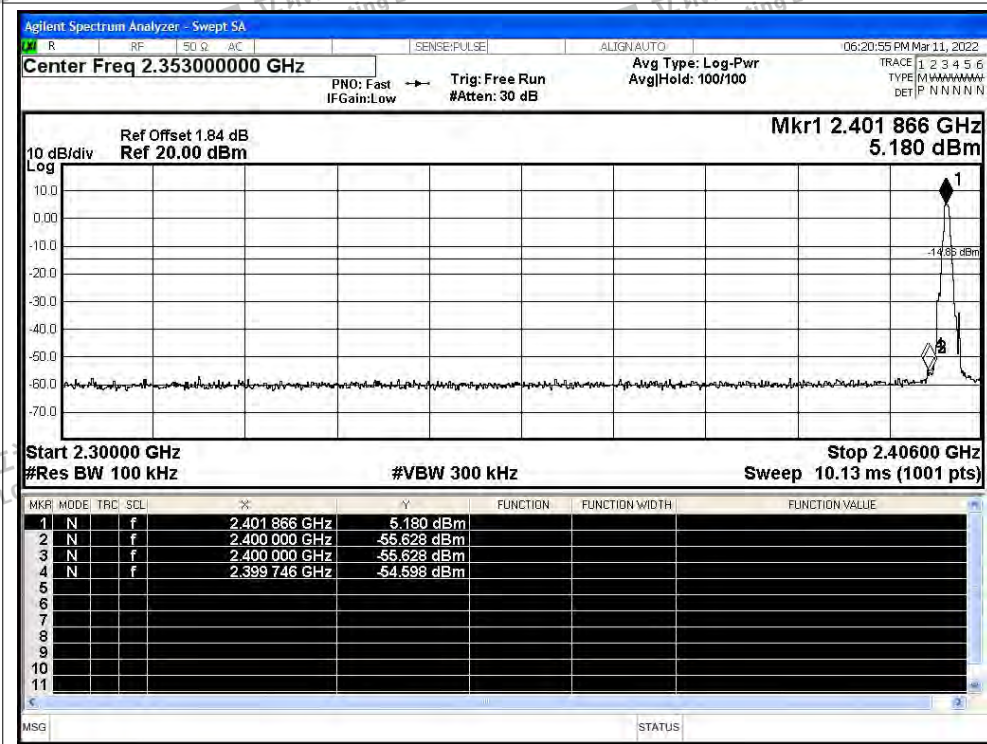
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Test Graphs

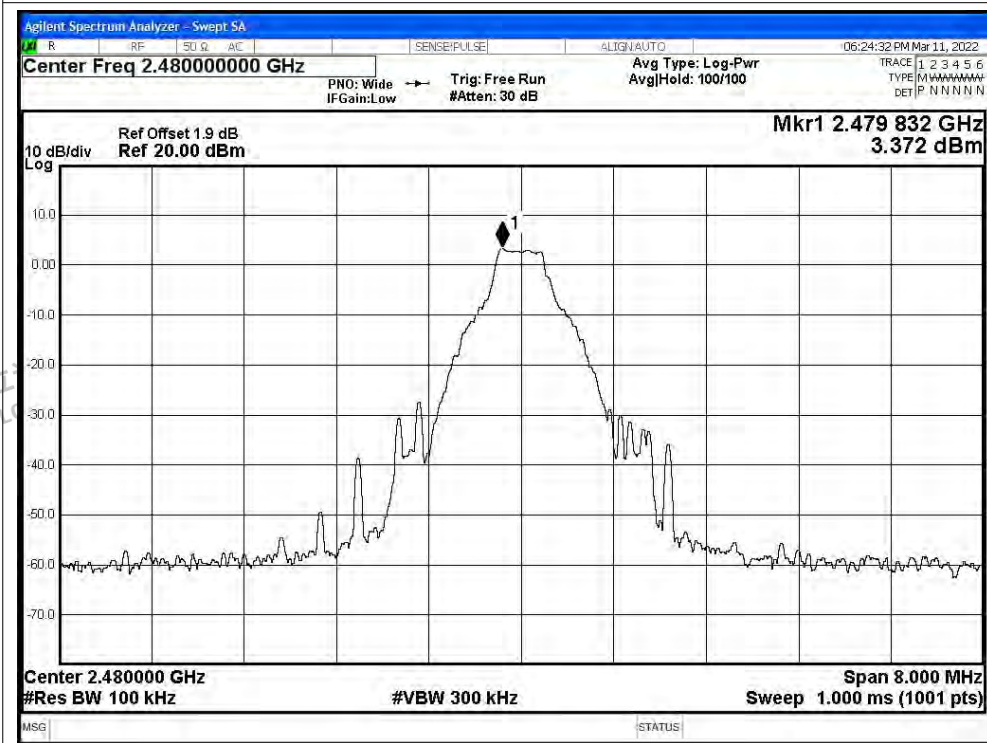
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



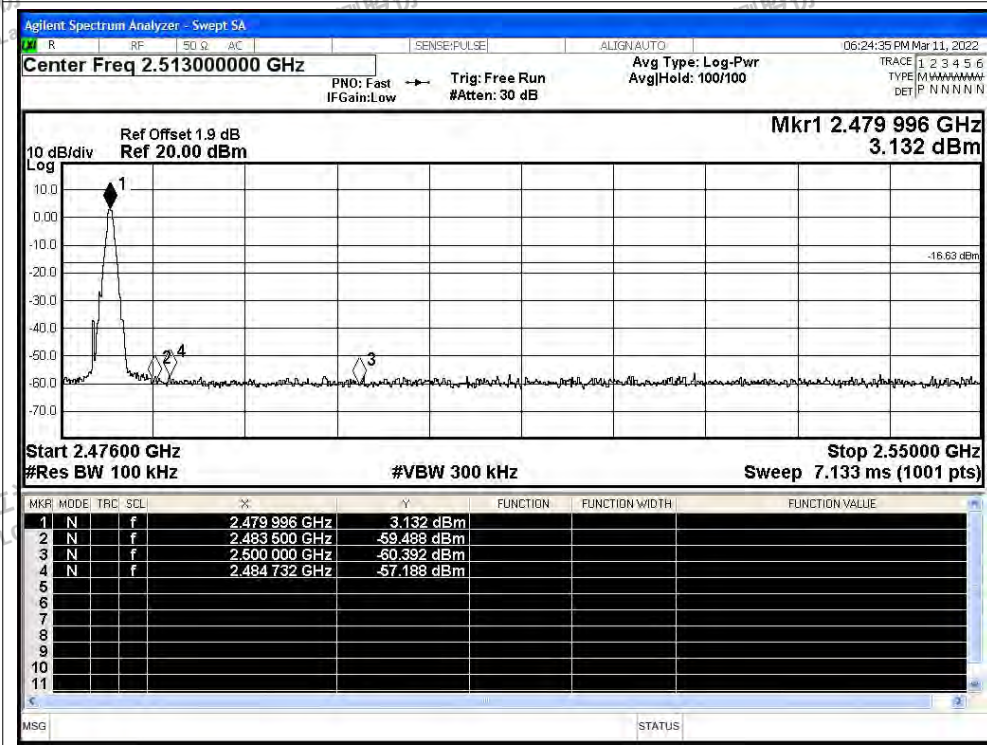
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



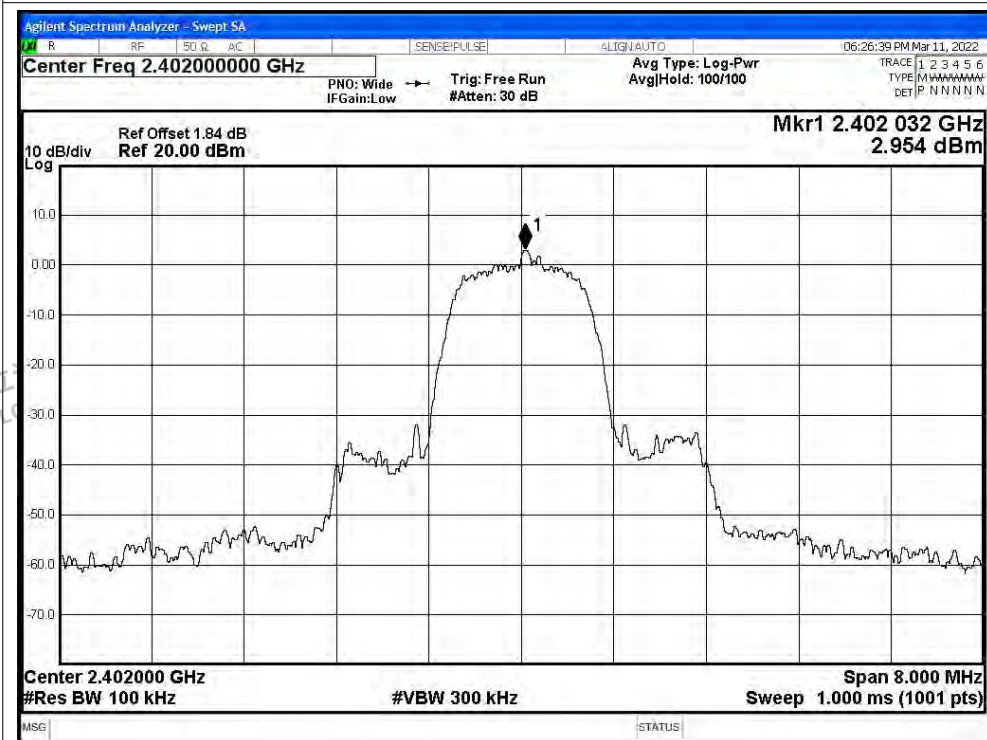
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



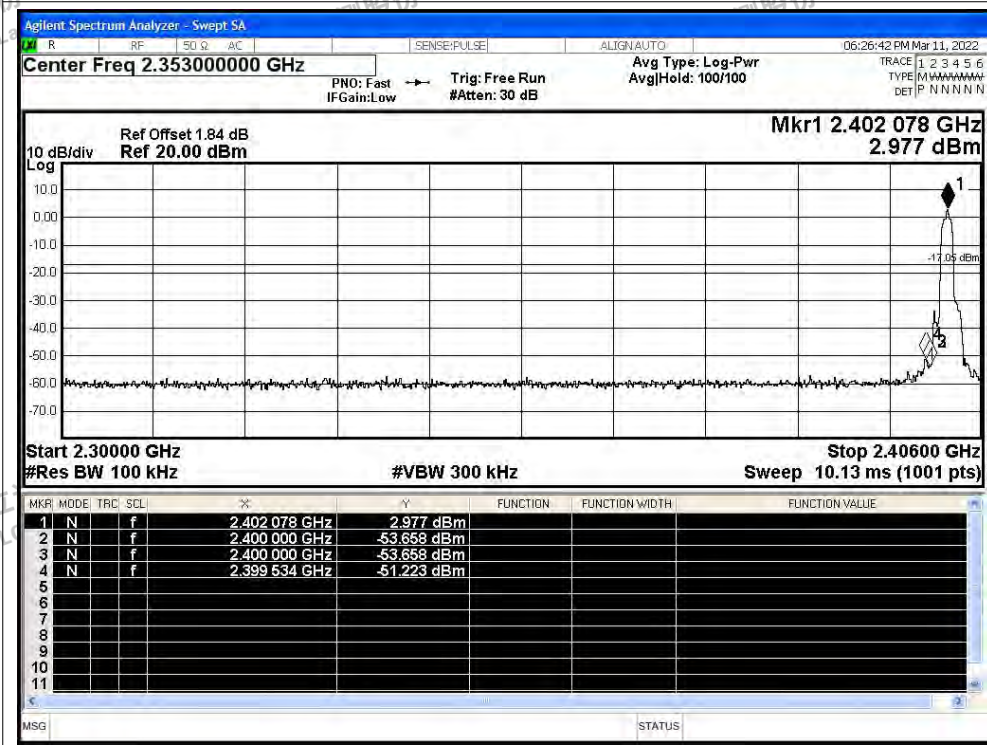
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



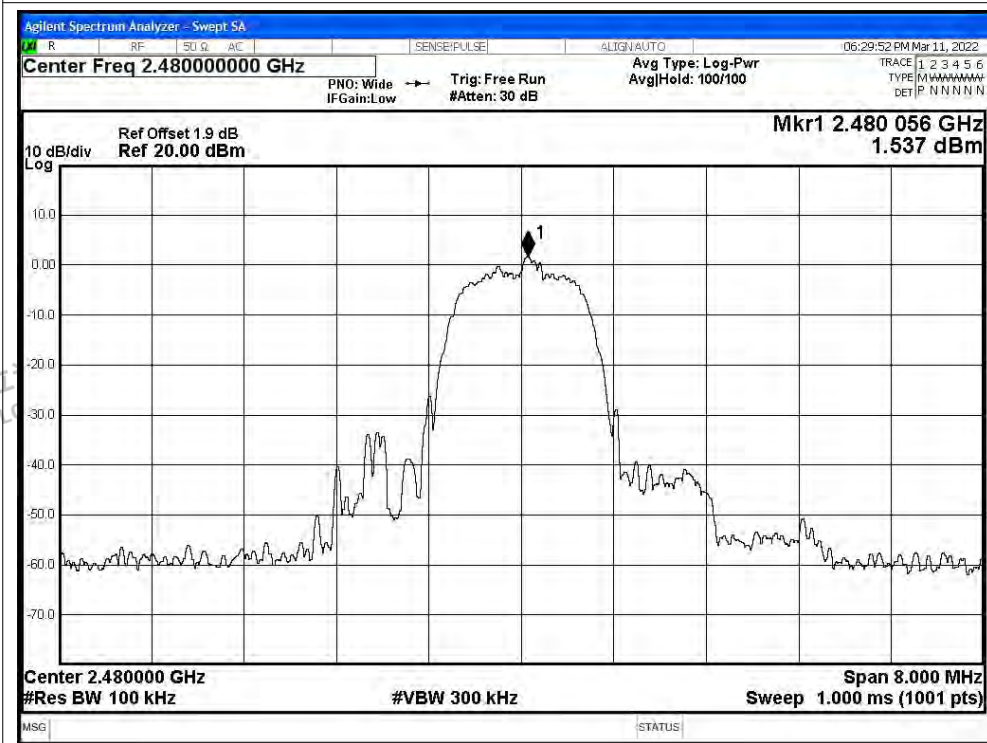
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



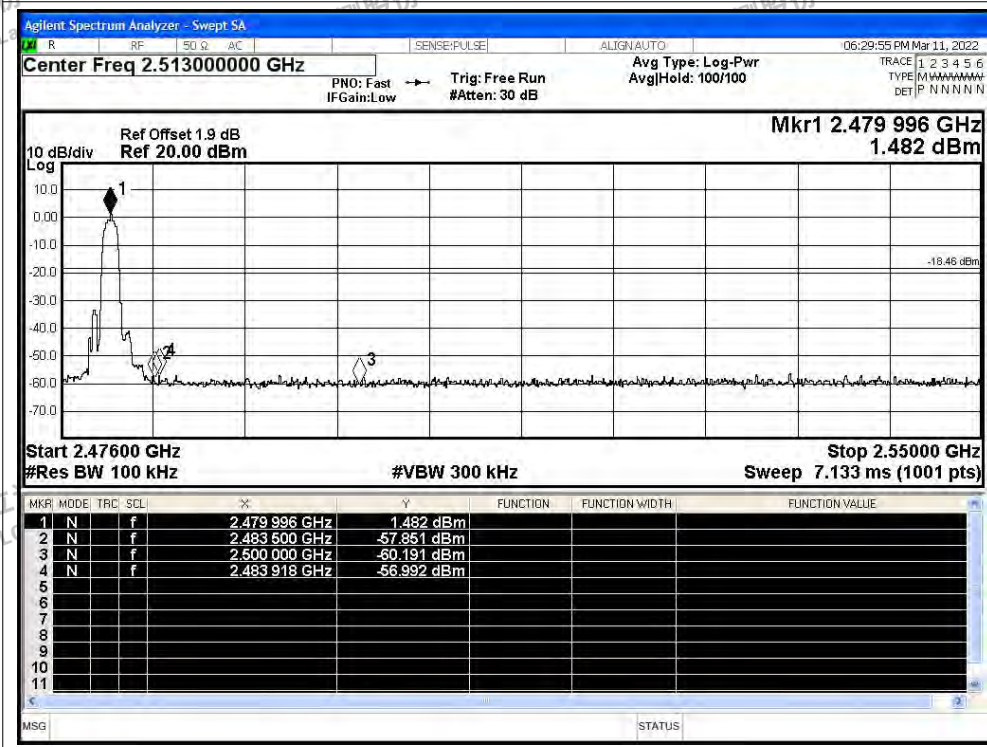
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



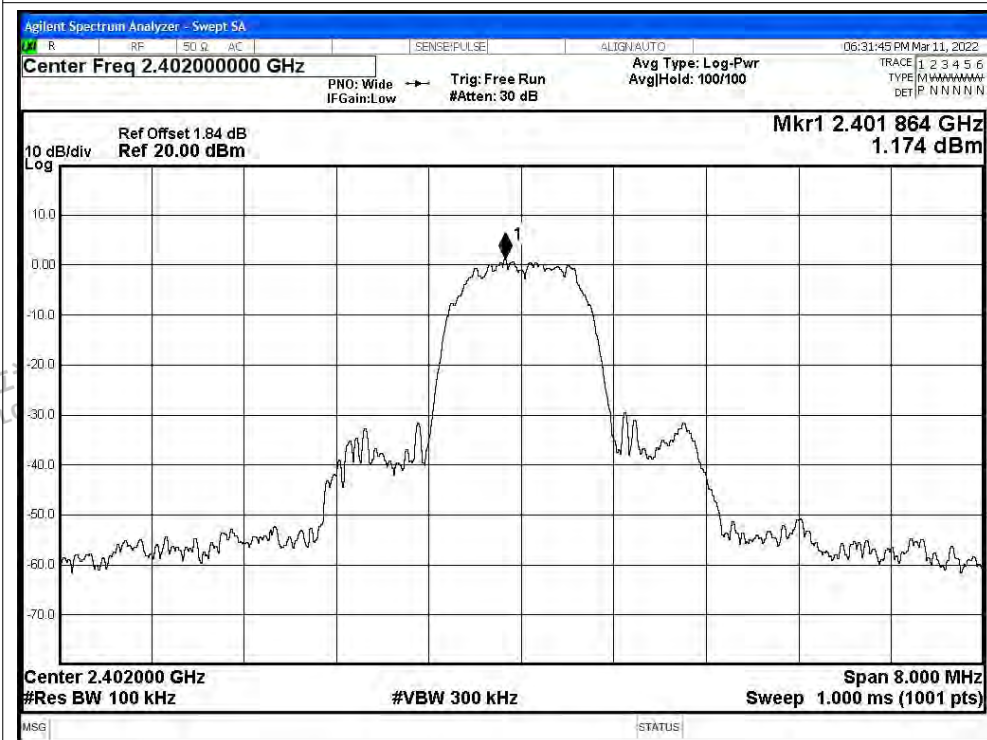
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



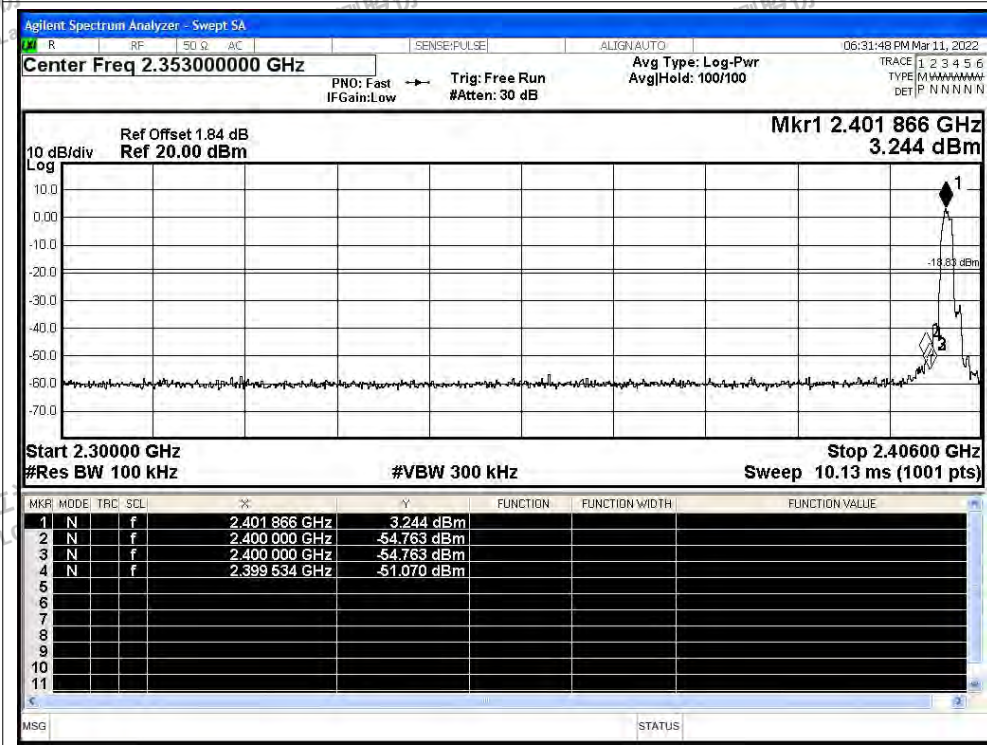
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



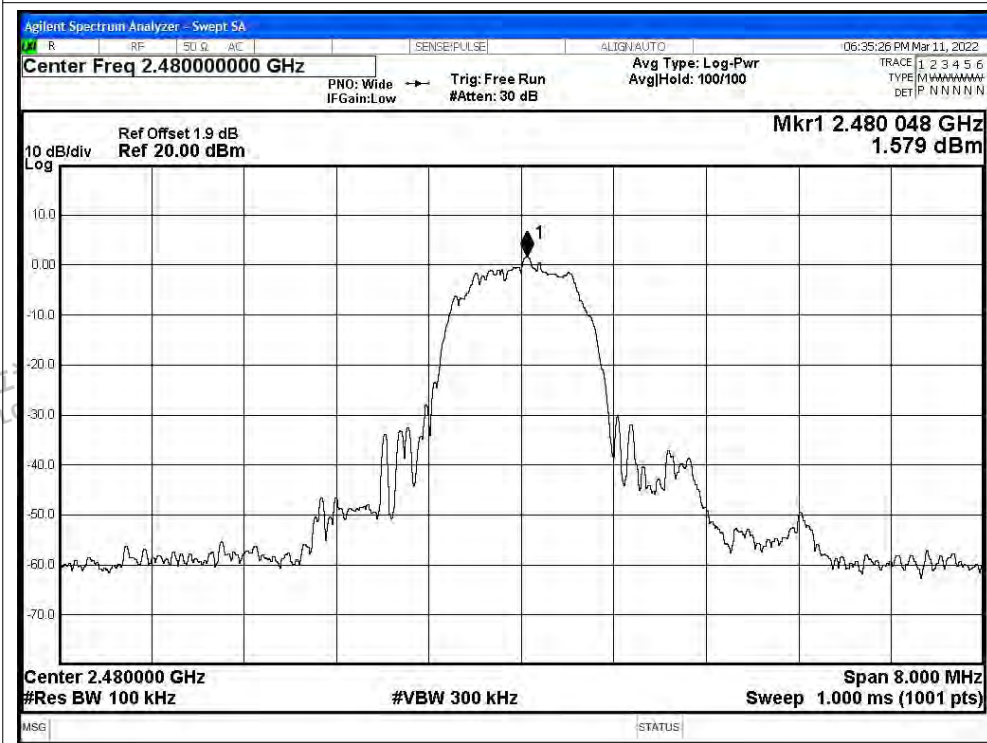
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



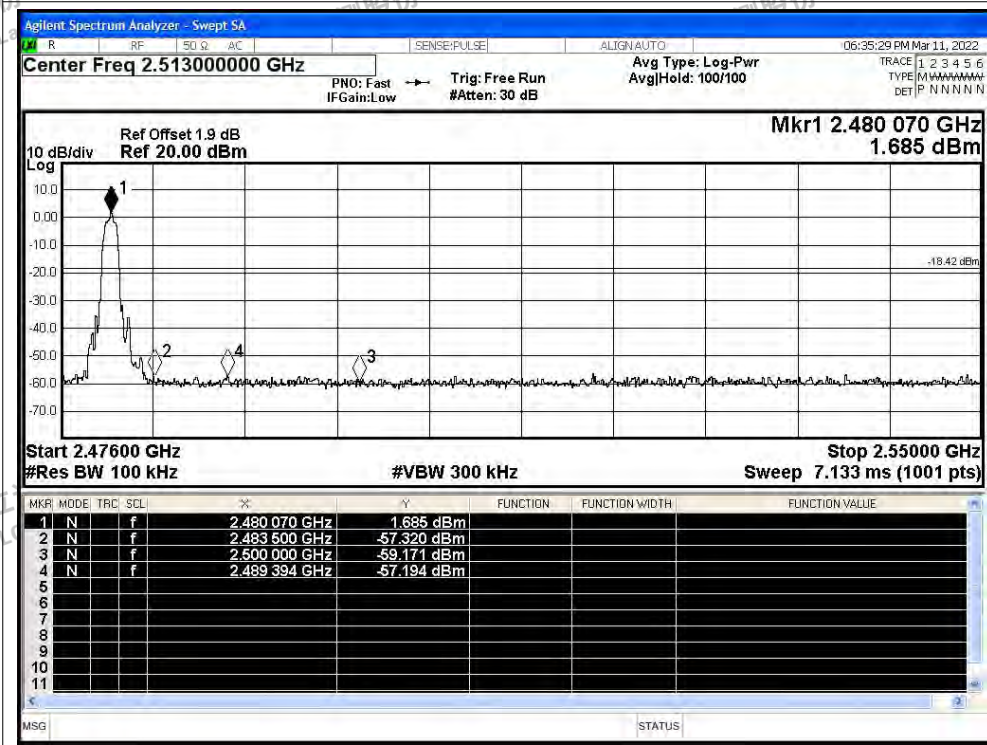
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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





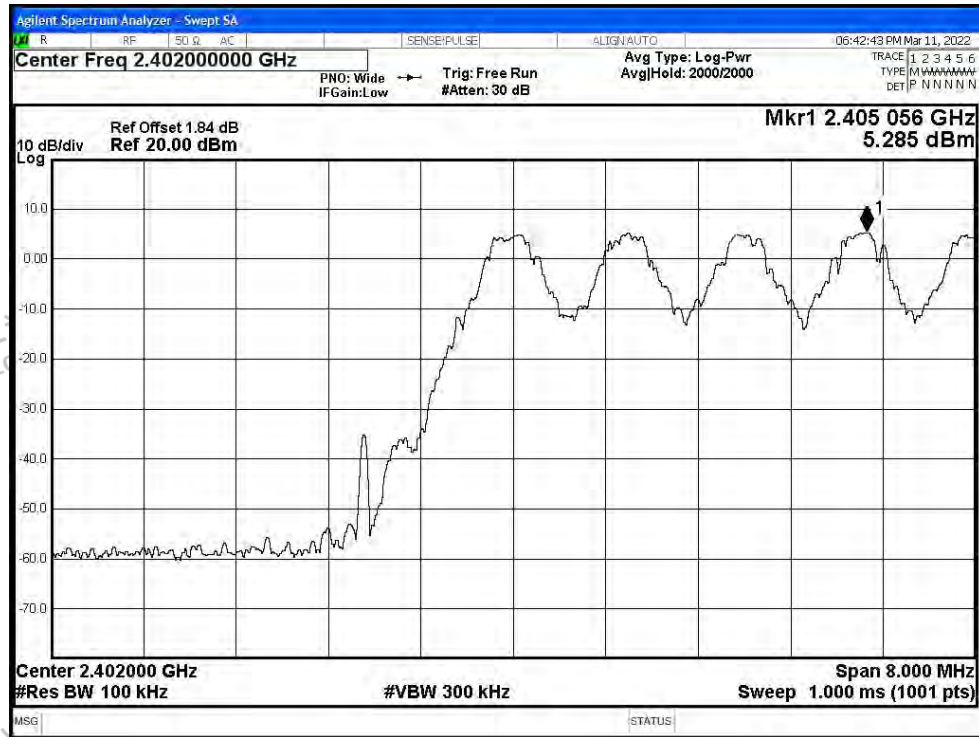
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-61.61	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.55	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.32	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.66	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.92	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.02	-20	Pass

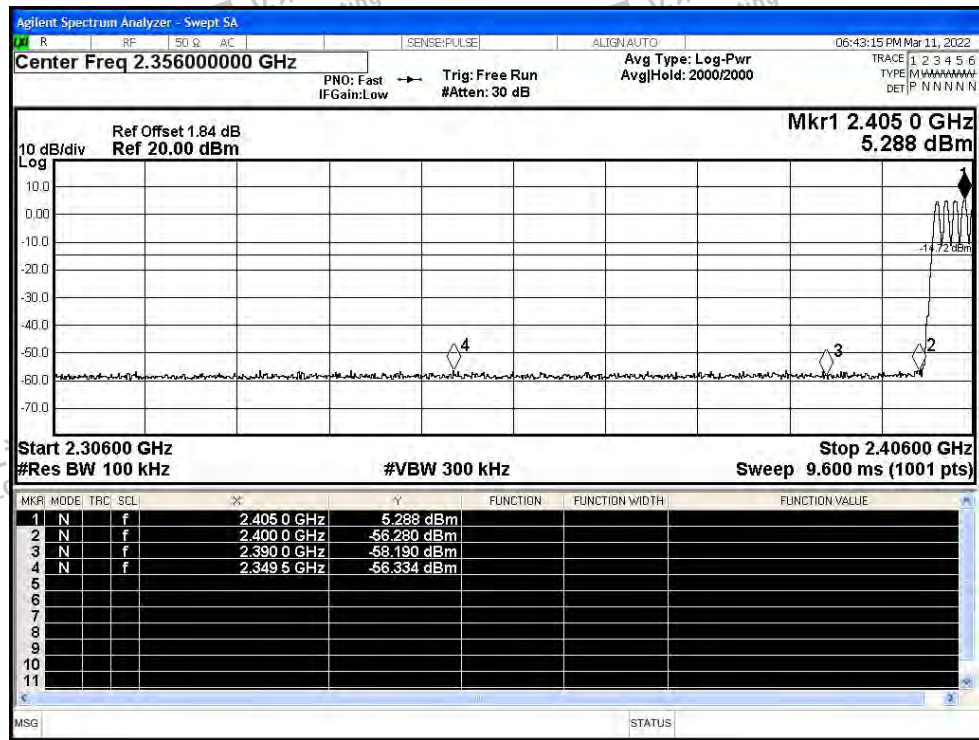


Test Graphs

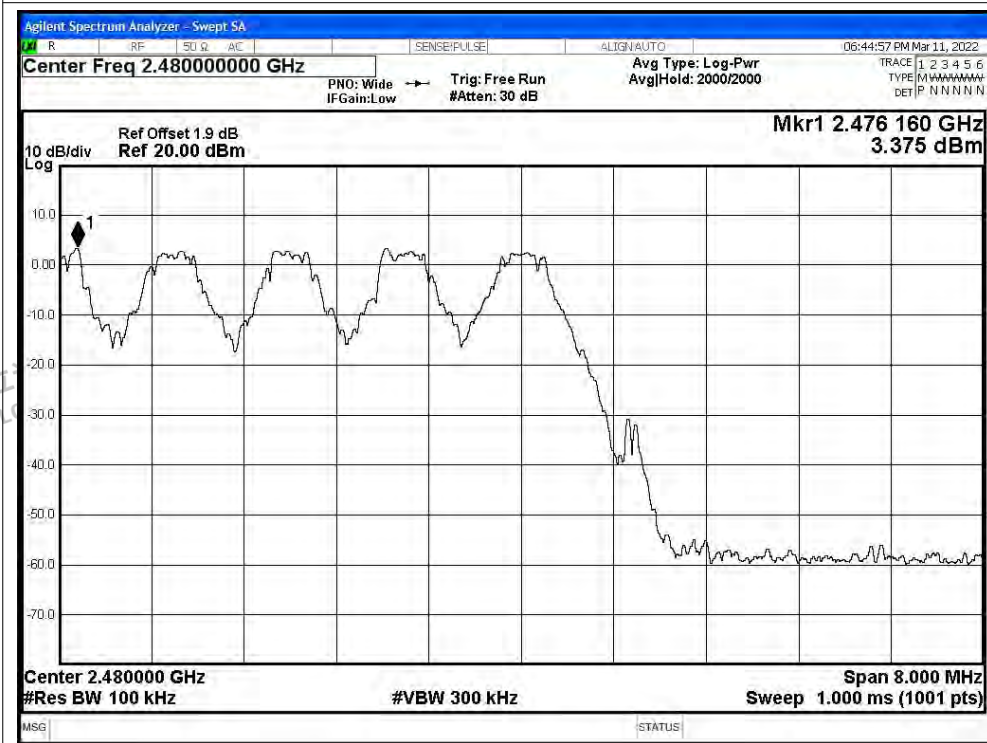
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



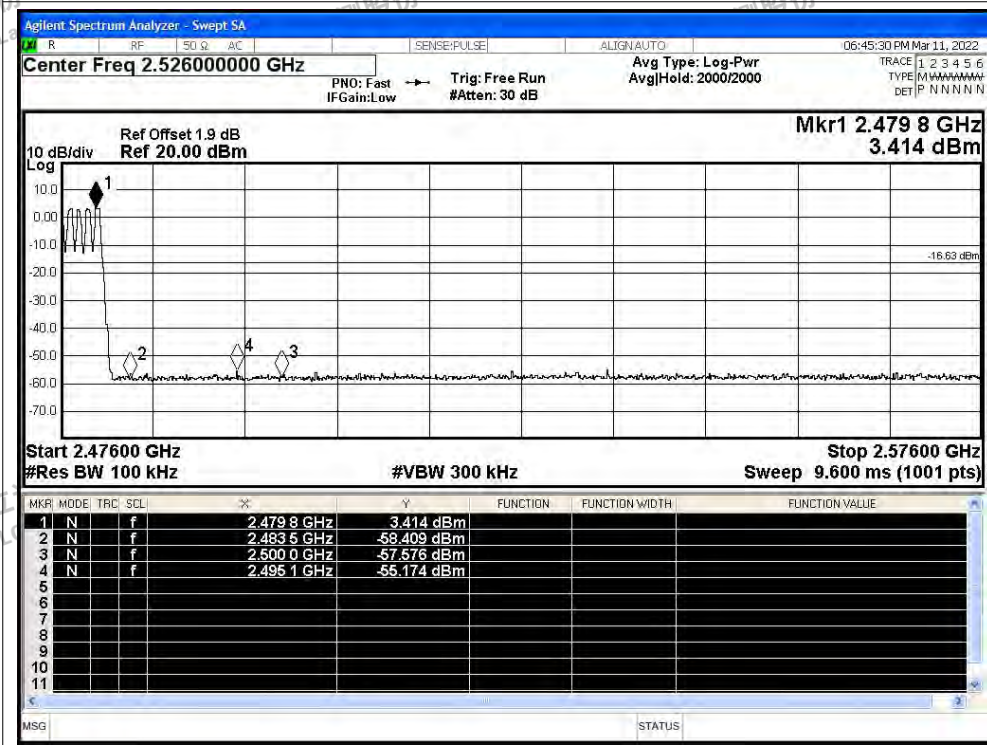
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



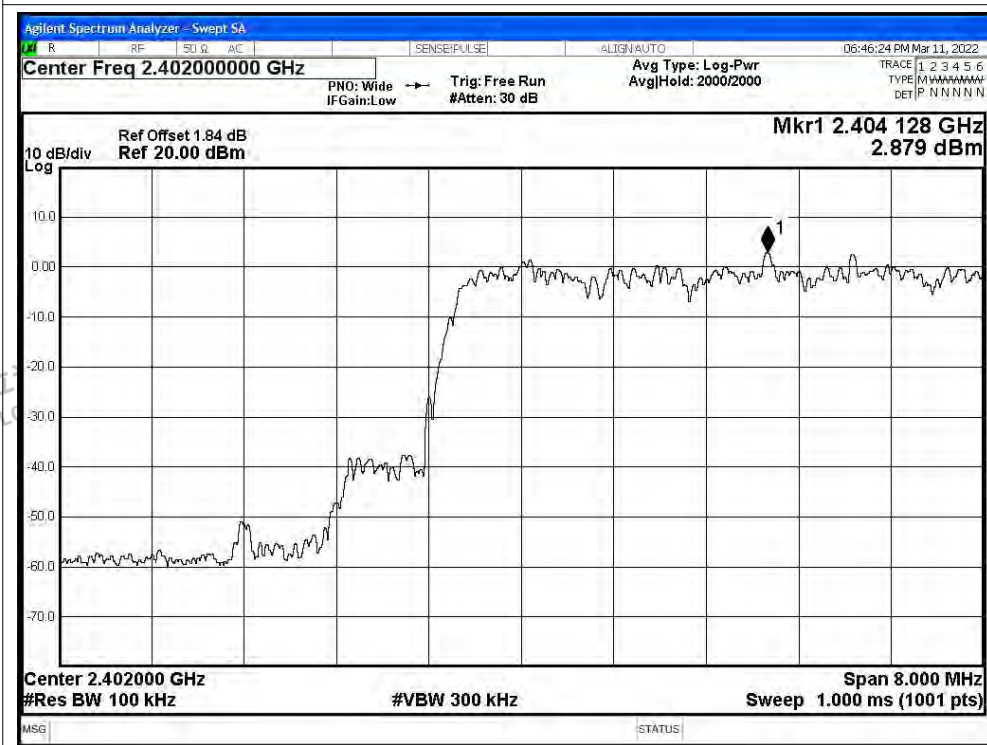
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



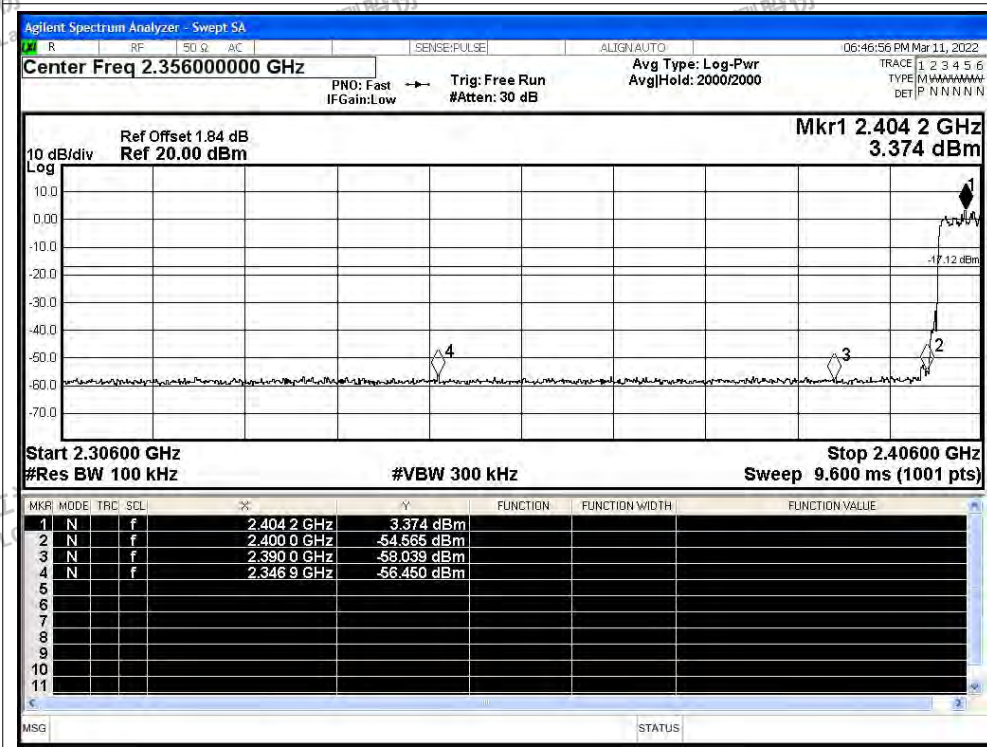
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



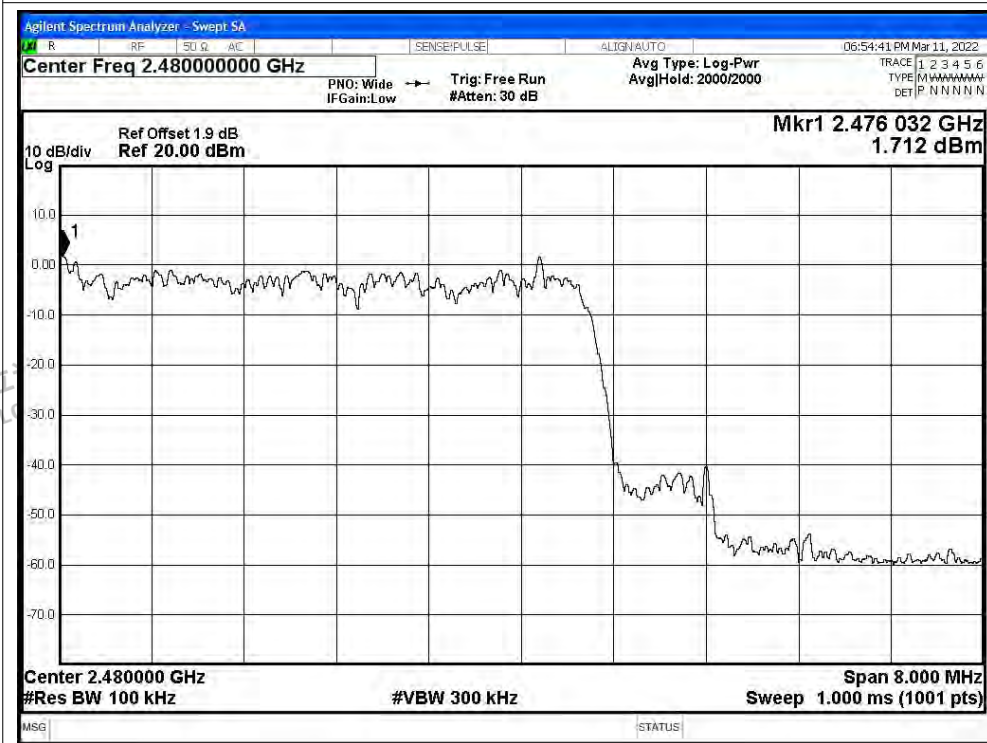
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



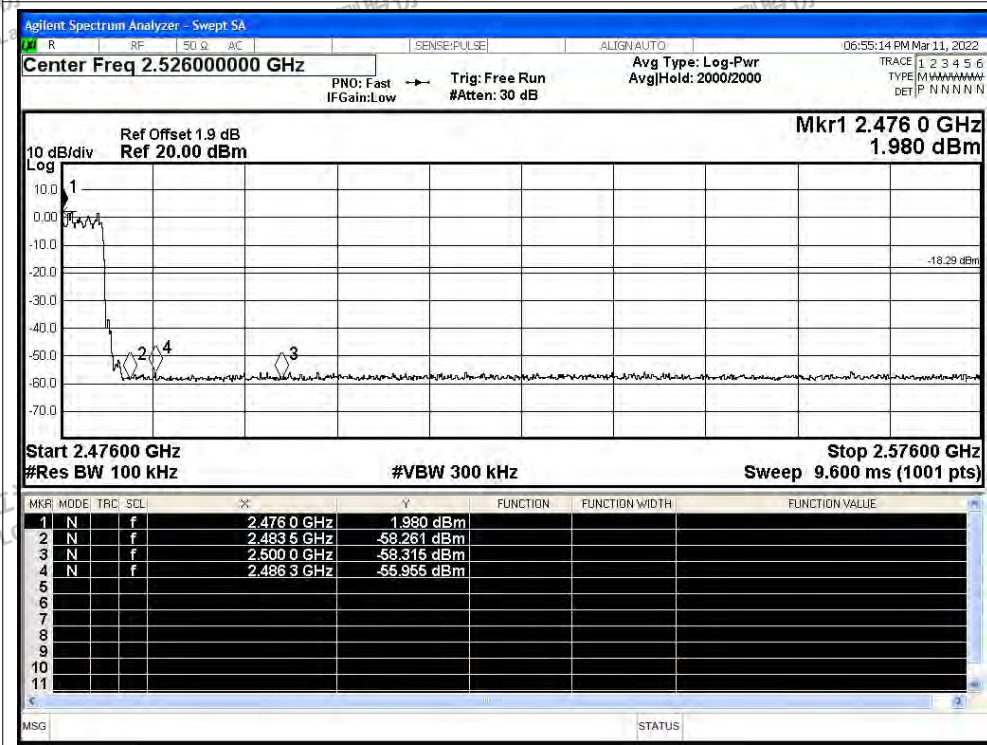
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



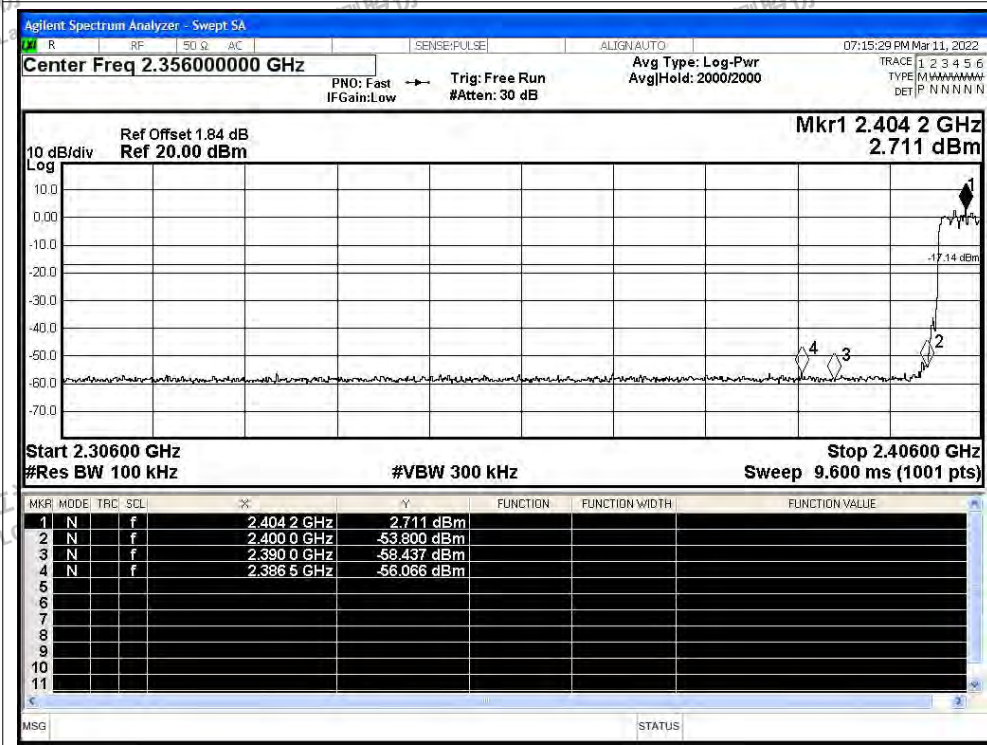
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



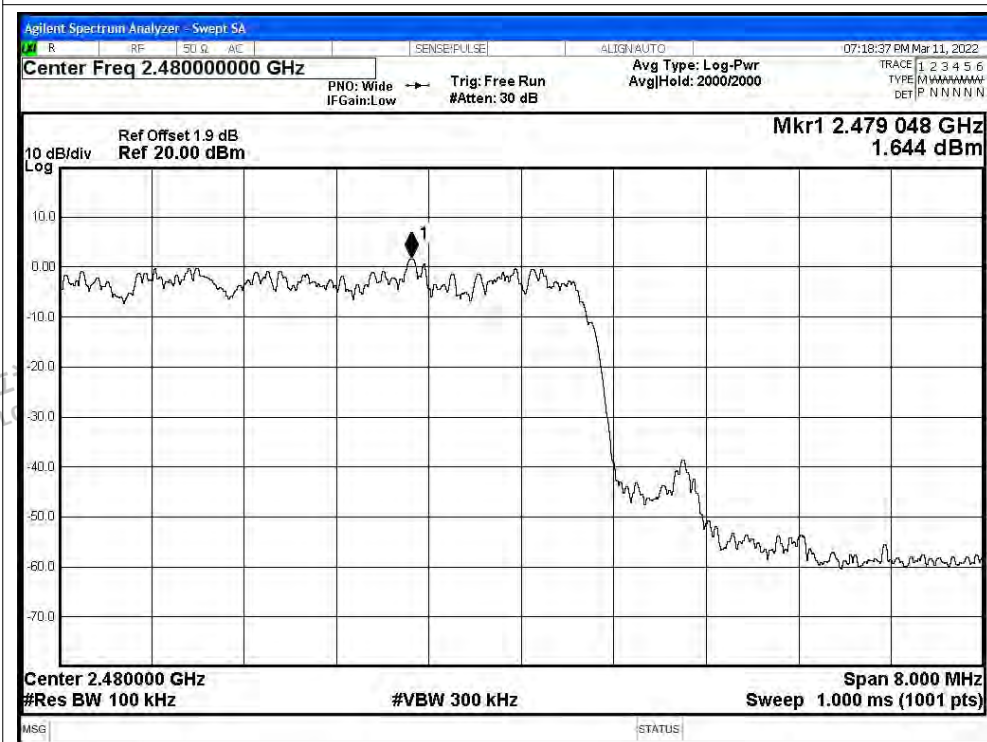
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



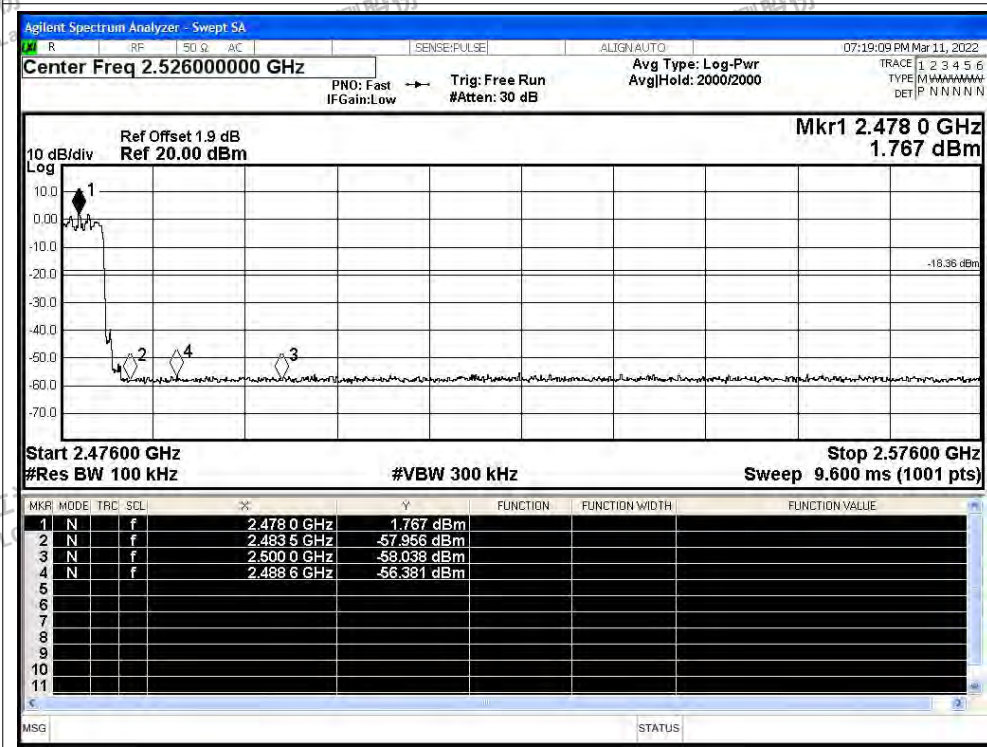
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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





A.7 Conducted RF Spurious Emission

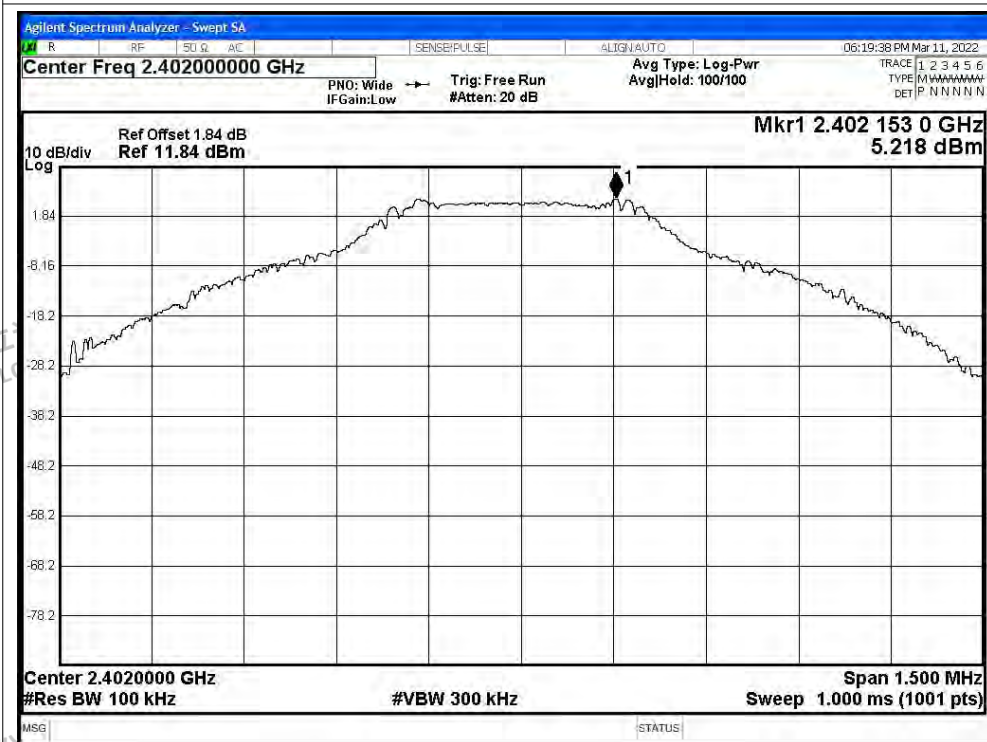
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-60.19	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.85	-20	Pass
NVNT	1-DH5	2480	Ant1	-59.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.52	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.95	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.44	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.44	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.01	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.5	-20	Pass



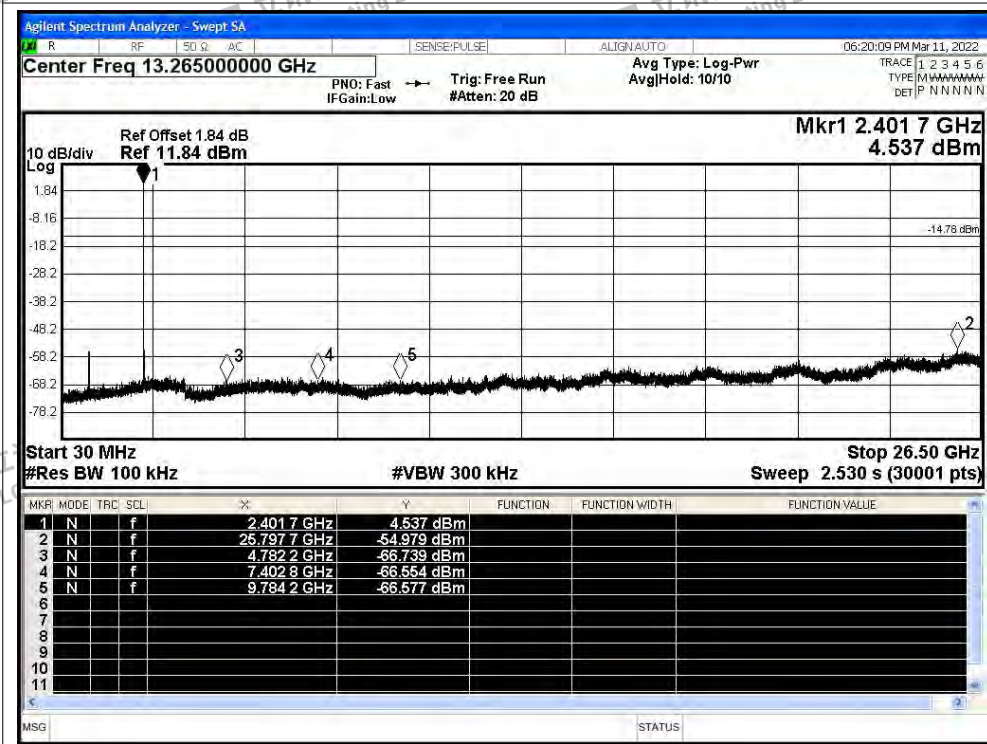
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

Test Graphs

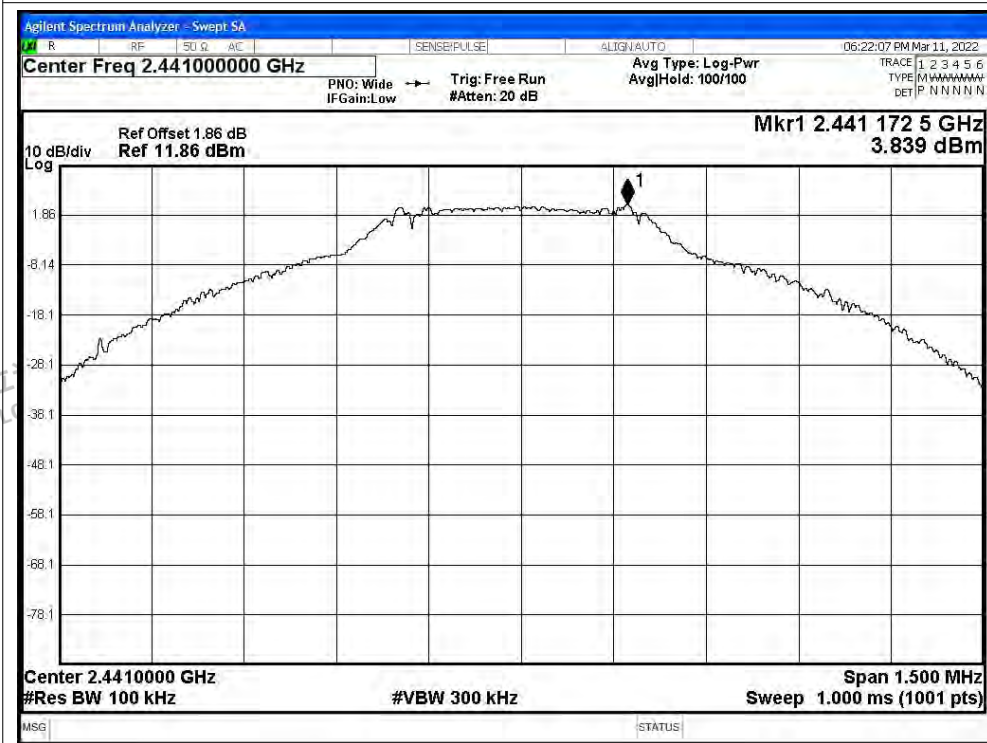
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



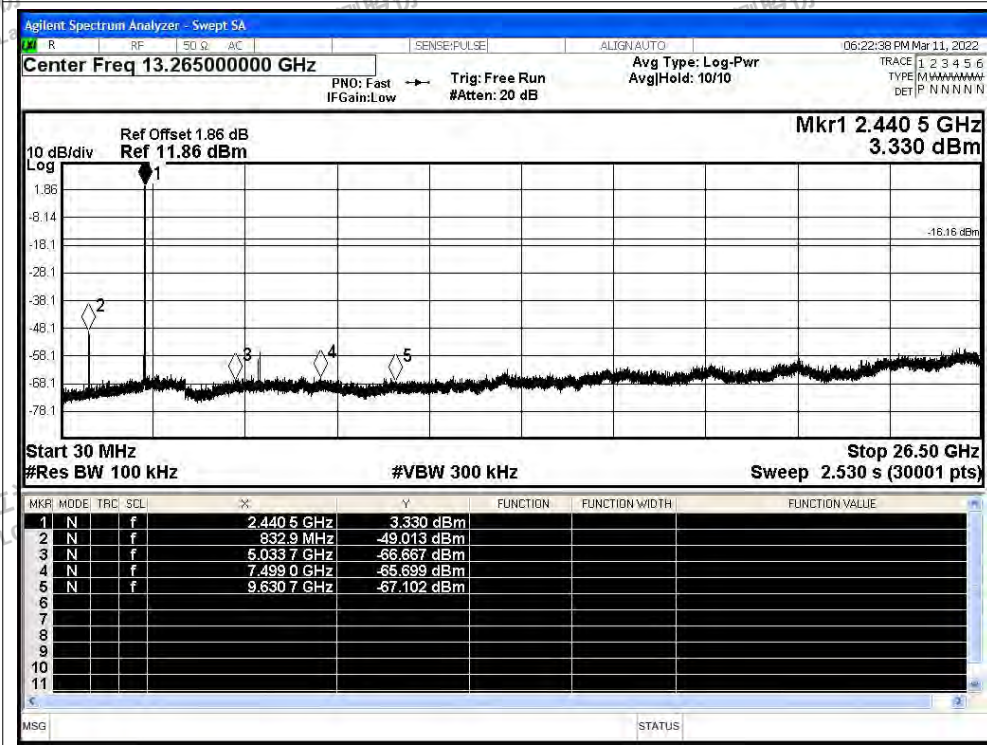
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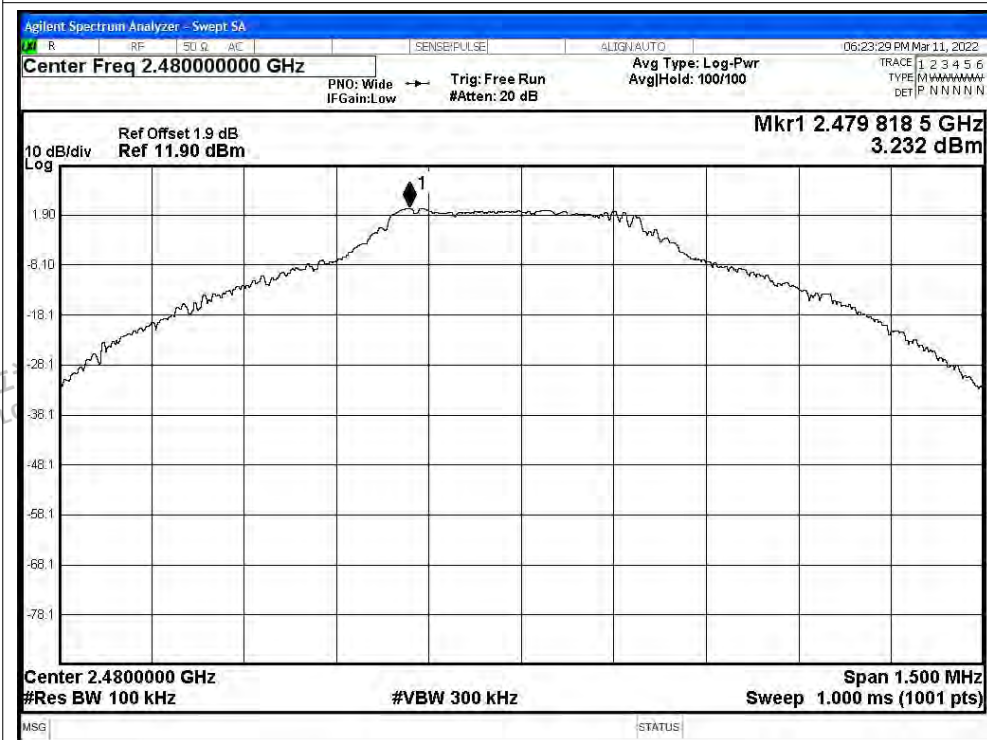
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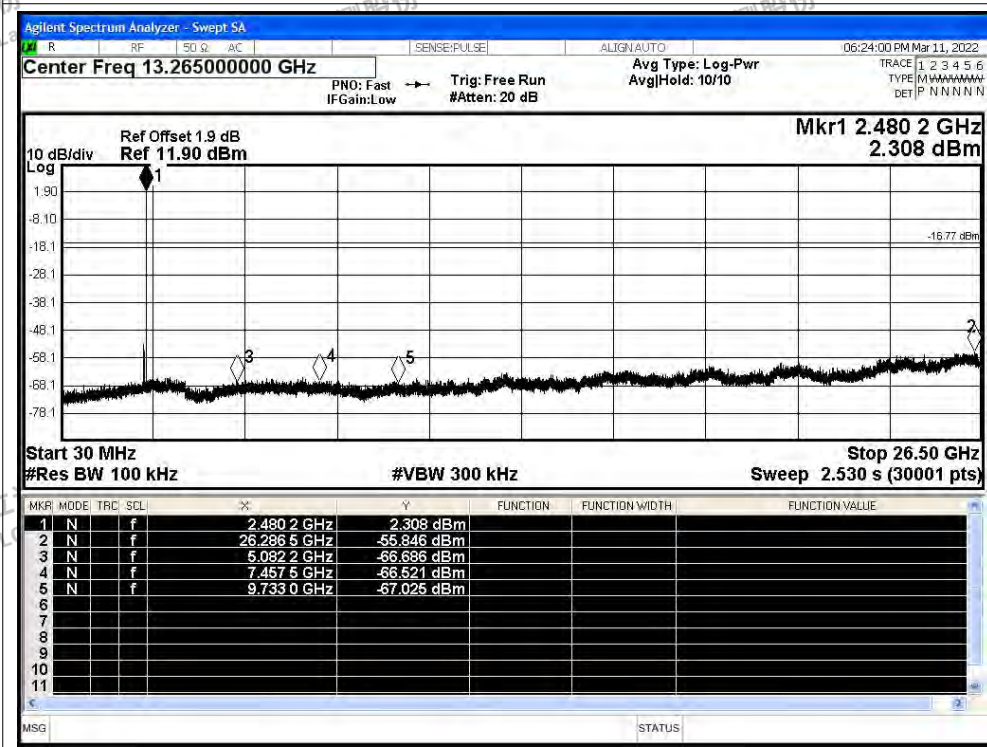
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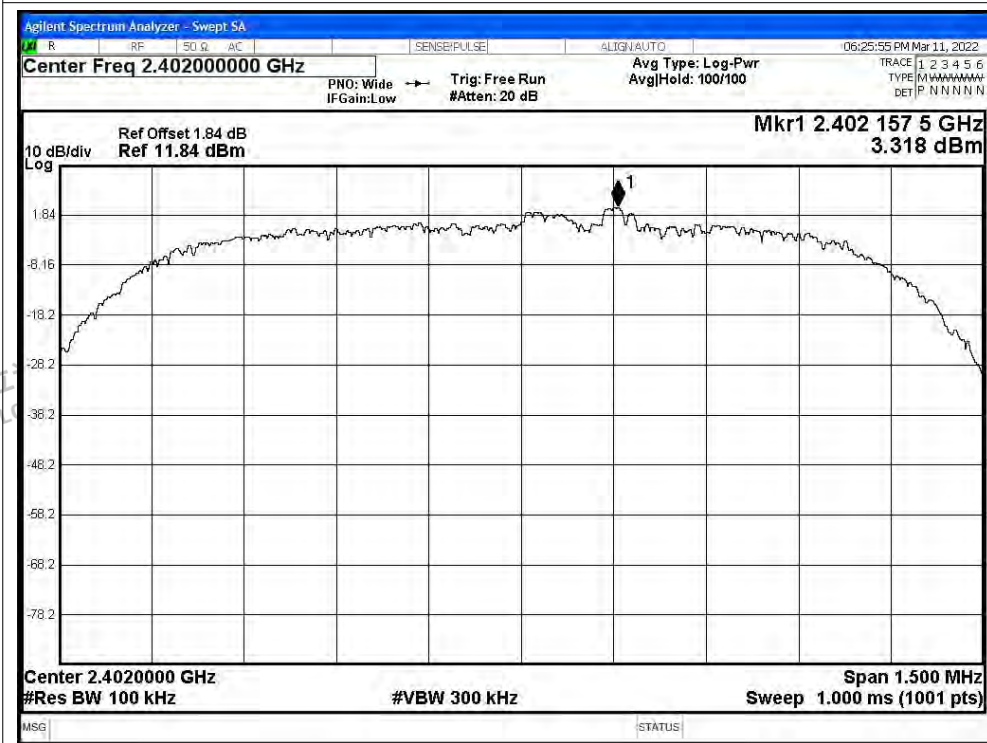
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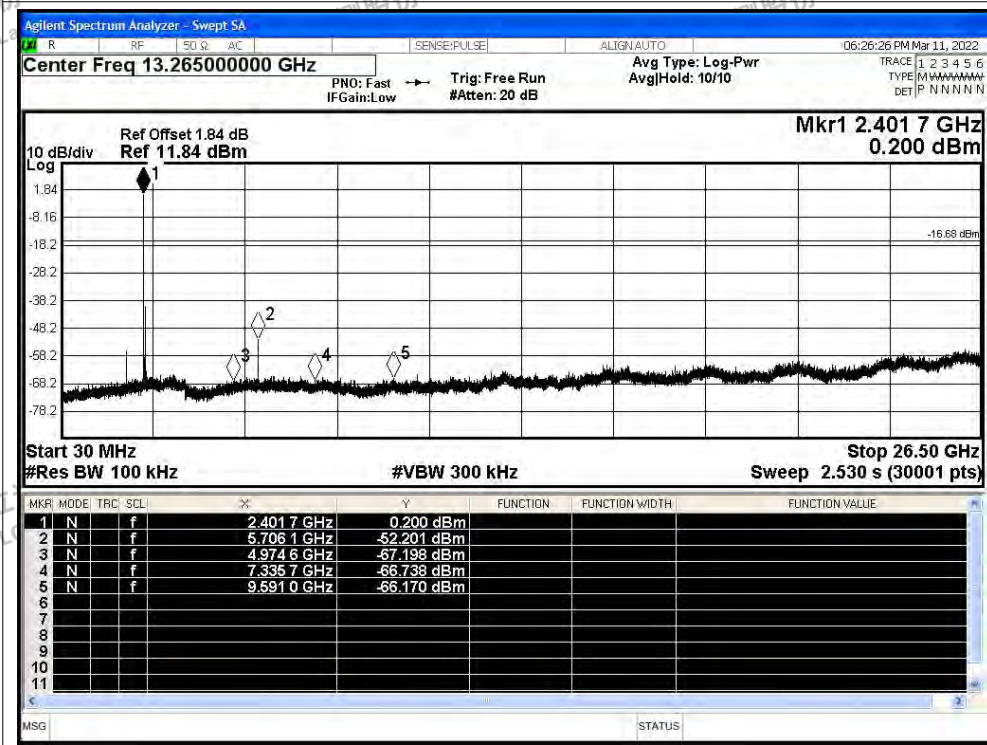
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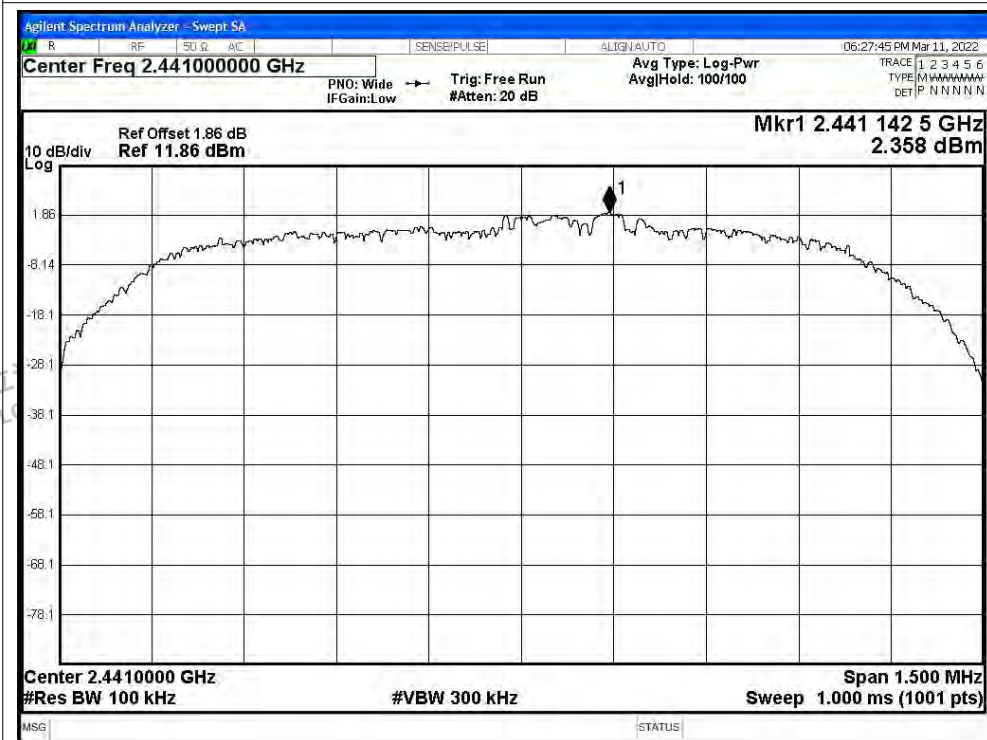
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



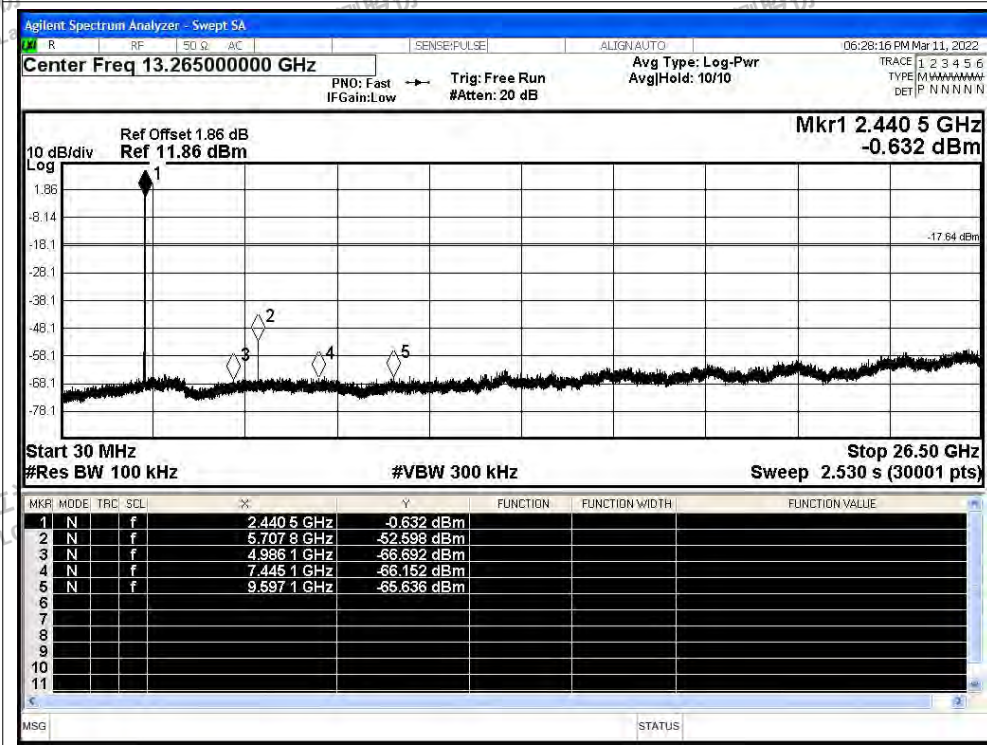
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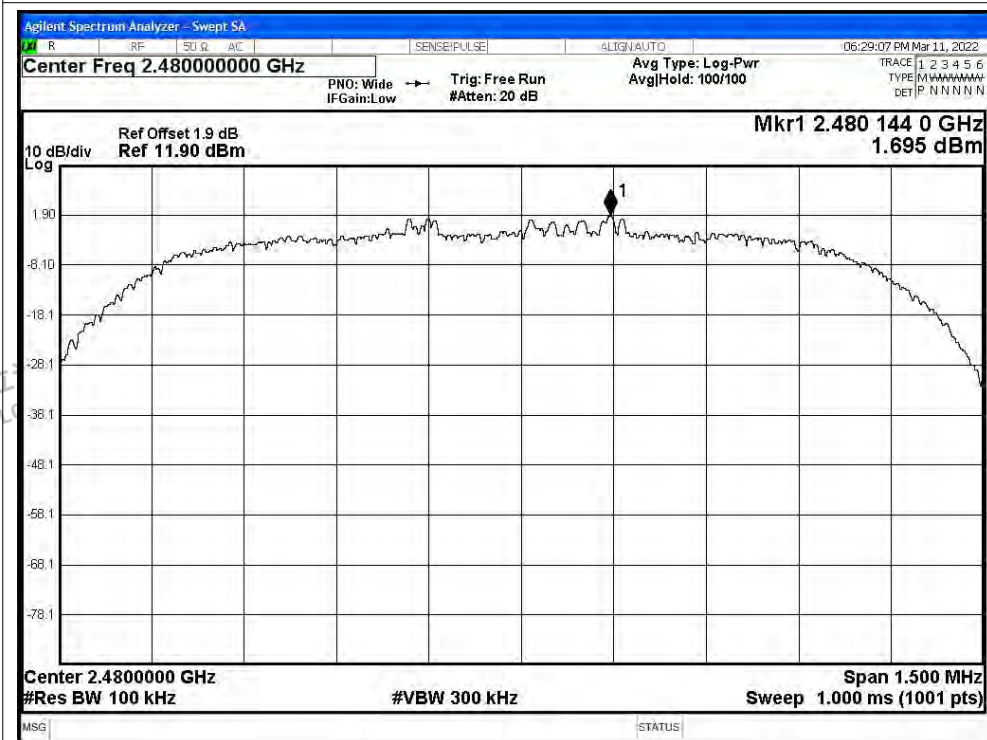
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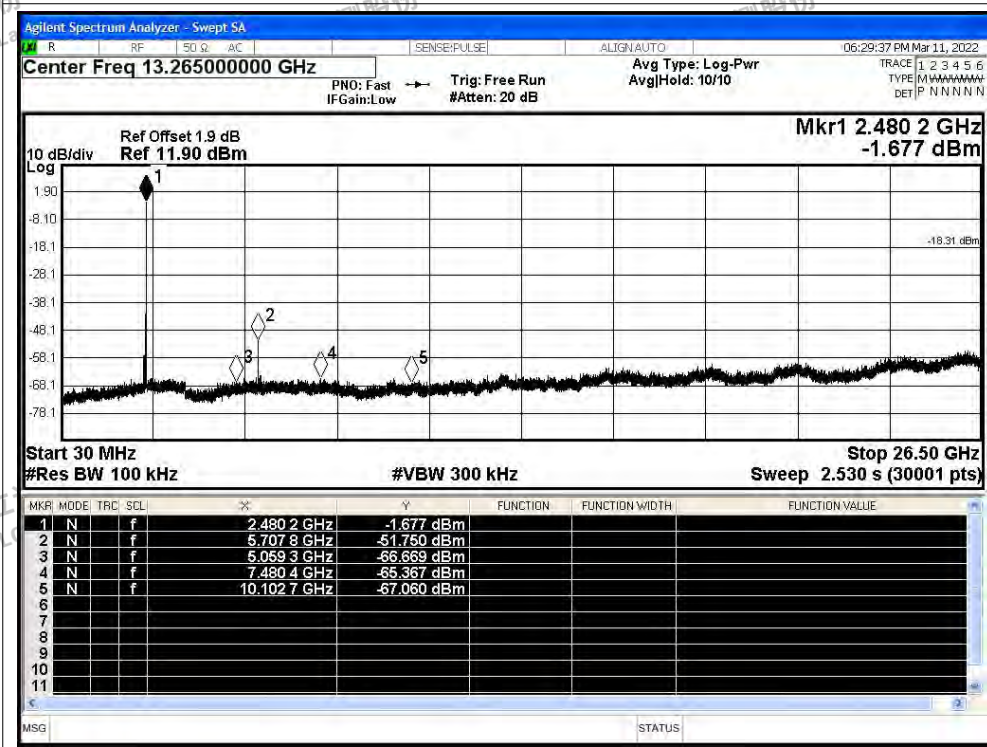
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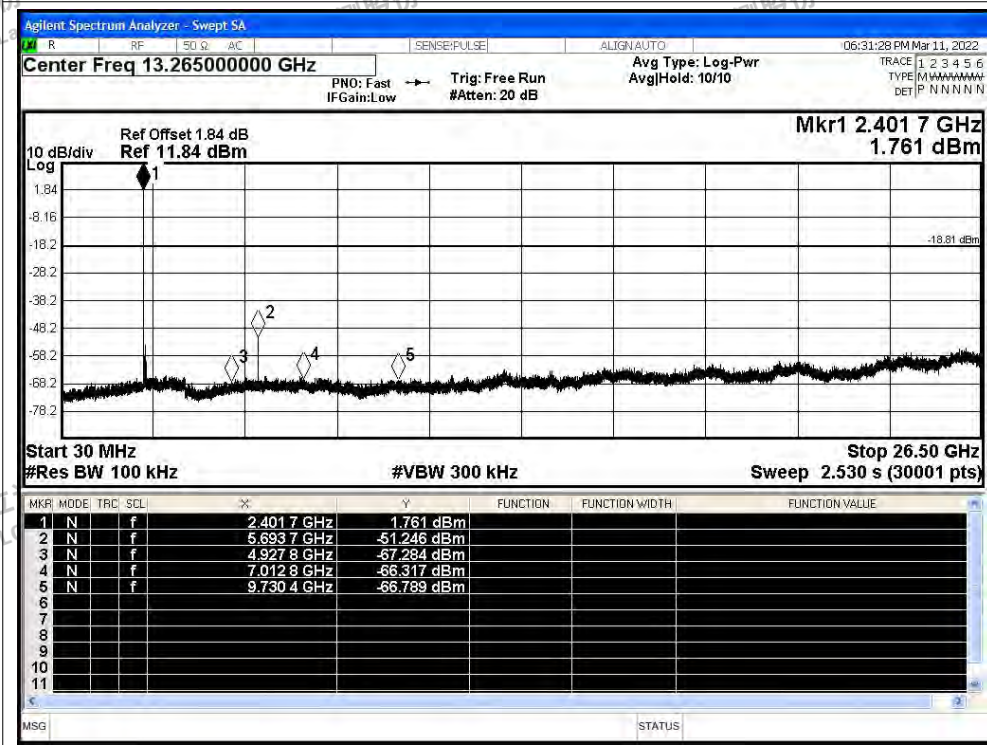
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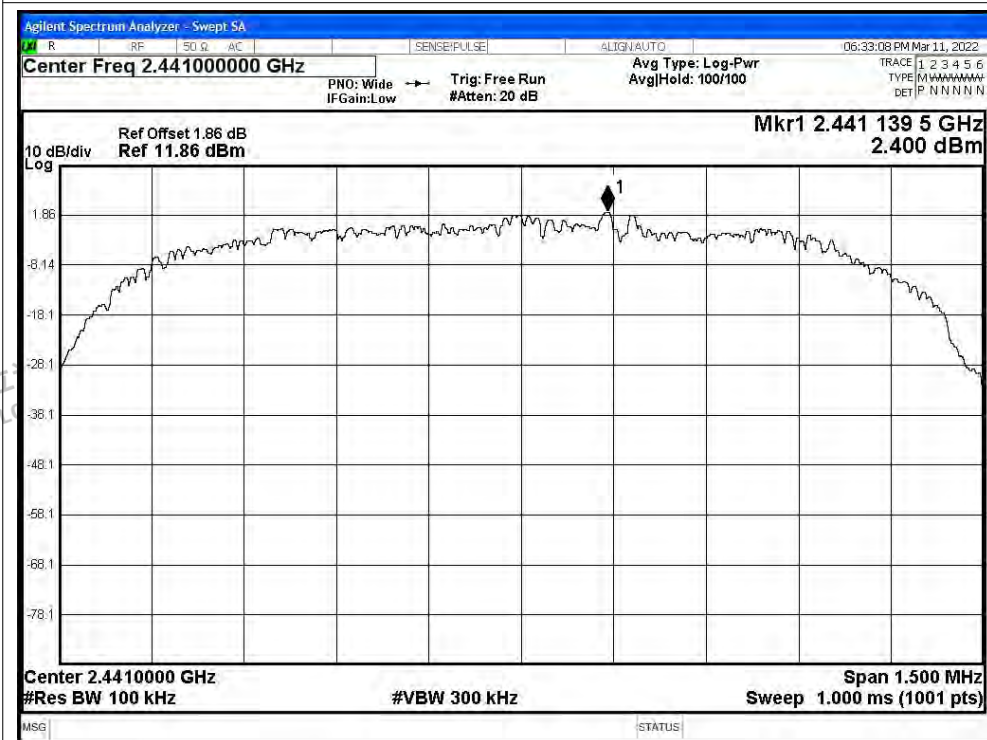
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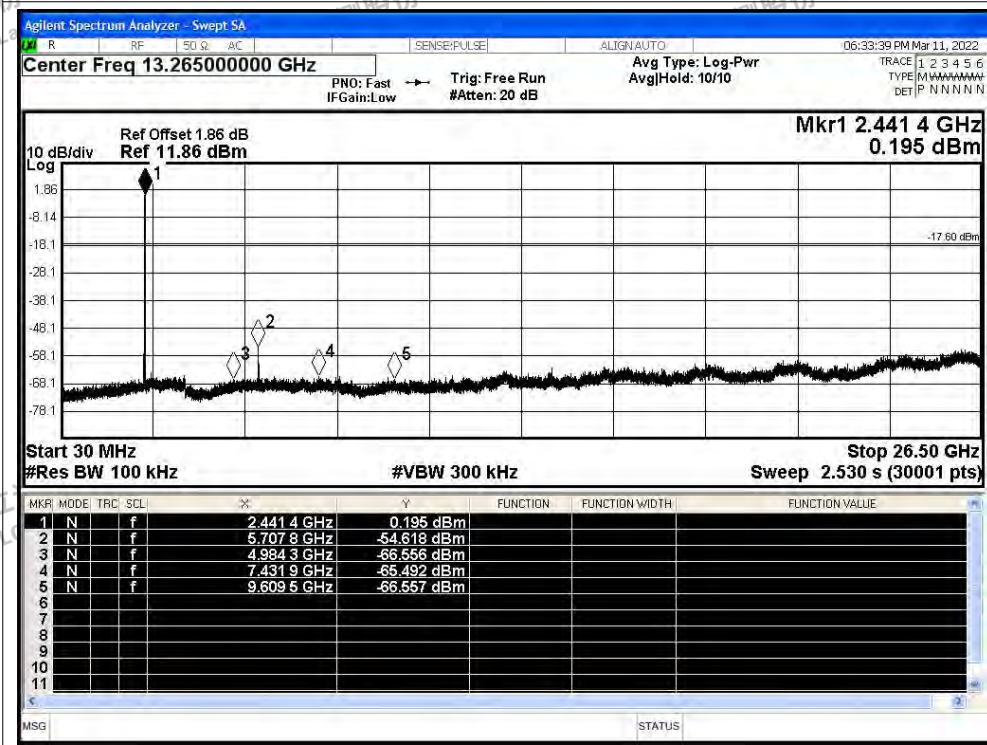
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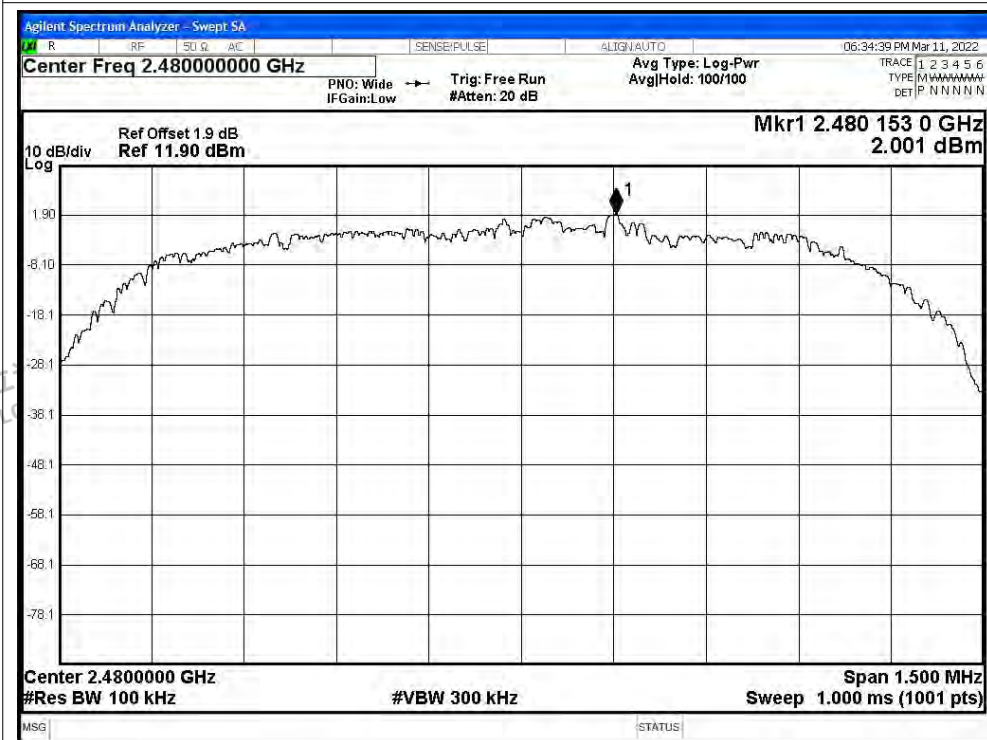
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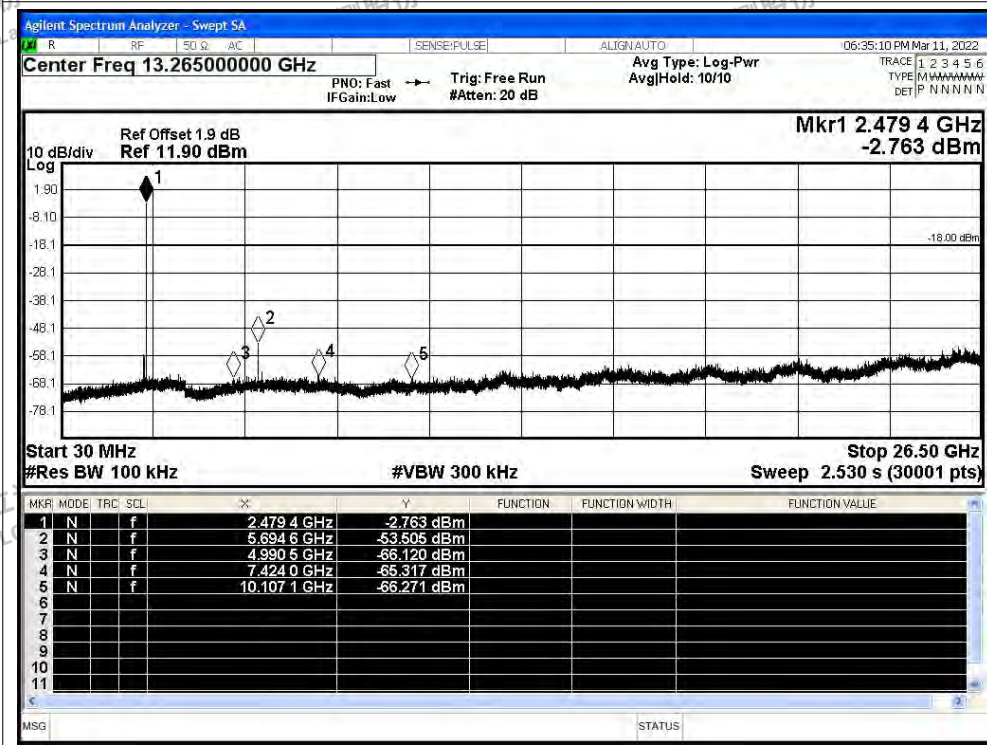
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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	-50.29	2	46.97	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.55	2	36.71	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.564	-46.93	2	50.33	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.464	-60.02	2	37.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.99	2	47.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.07	2	37.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.18	2	50.08	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.05	2	38.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.214	-47.09	2	50.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.548	-59.05	2	38.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.92	2	48.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.9	2	37.36	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.47	2	45.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.58	2	36.68	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2312.614	-47.62	2	49.64	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.5	-60.13	2	37.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.85	2	47.41	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.1	2	37.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.43	2	48.83	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.85	2	38.41	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.868	-47.11	2	50.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.548	-58.85	2	38.41	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.2	2	47.06	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.96	2	37.3	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.01	2	47.25	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.61	2	36.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.79	-47.71	2	49.55	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.44	-60.09	2	37.17	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.87	2	47.39	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.33	2	36.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.12	2	47.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.79	2	38.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.31	-47.65	2	49.61	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.548	-58.79	2	38.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.97	2	46.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.84	2	37.42	Average	54	Pass



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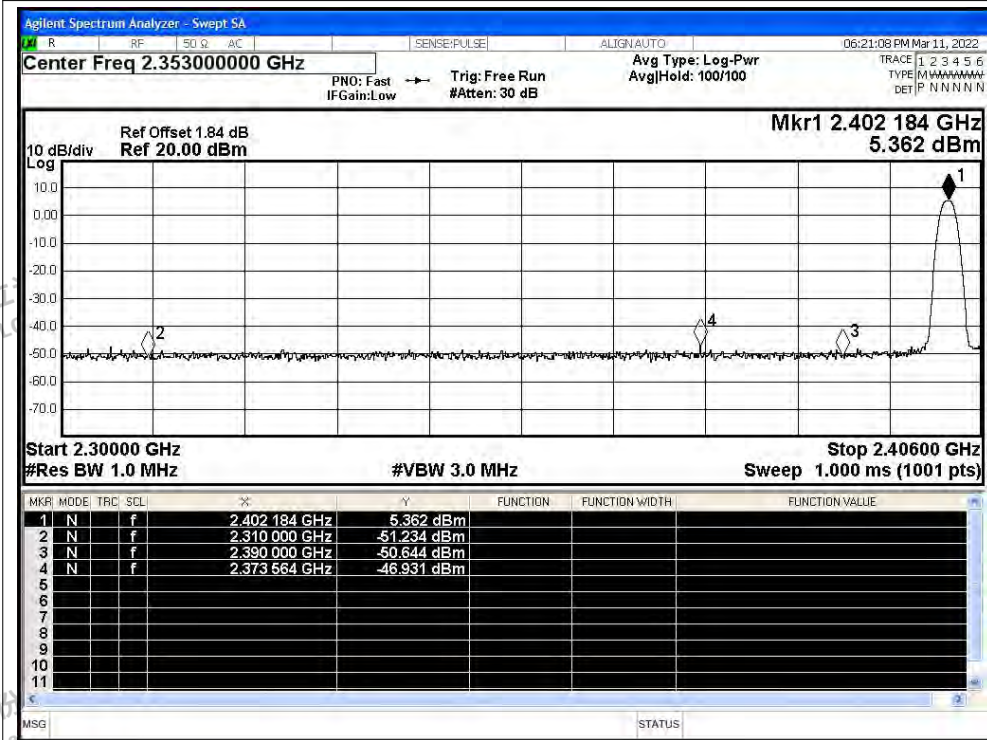
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

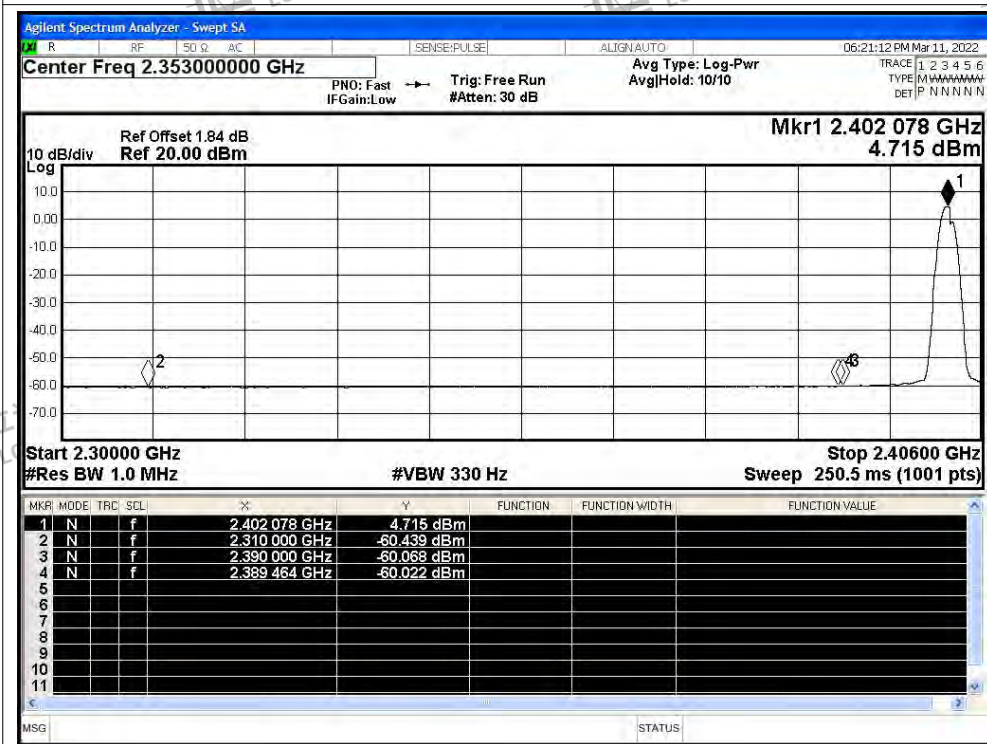
Scan code to check authenticity

Test Graphs

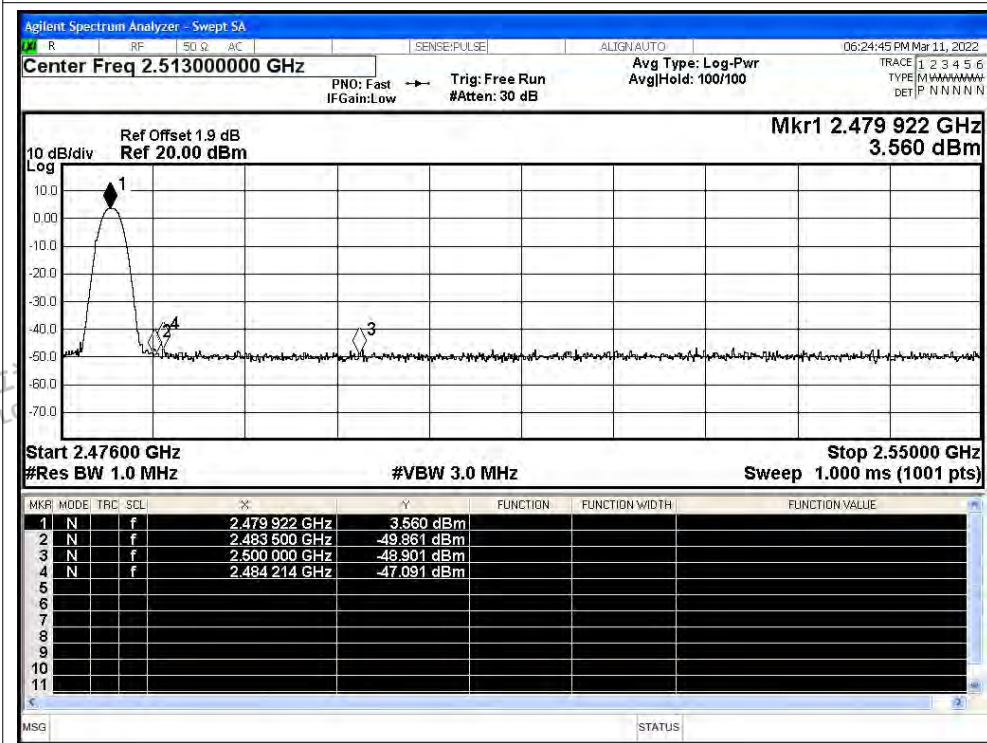
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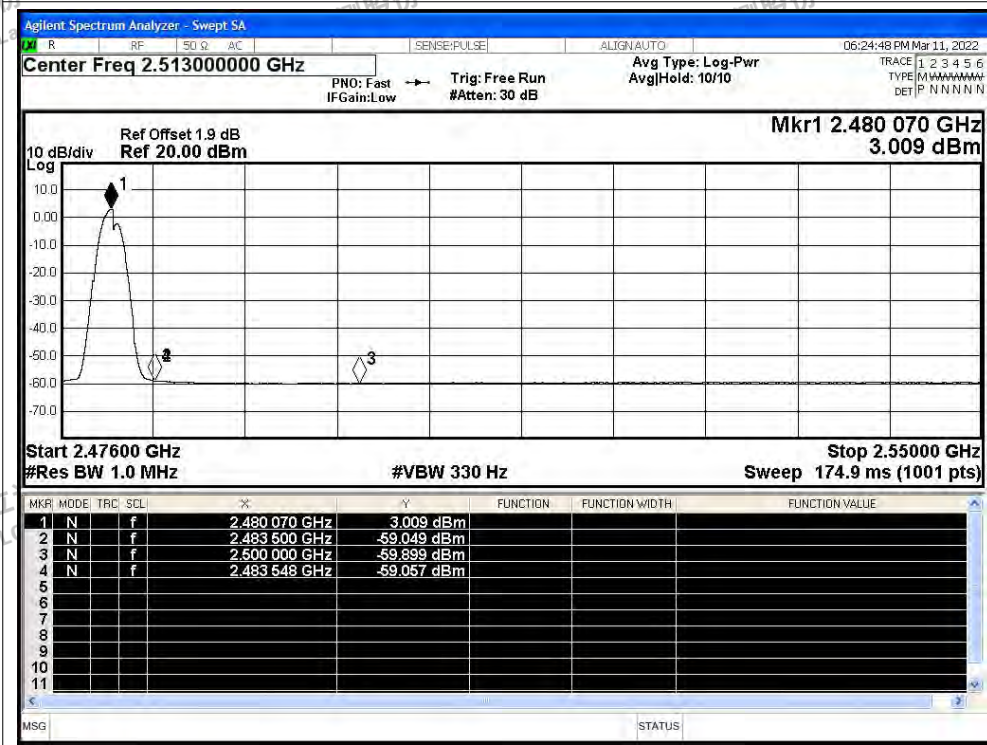
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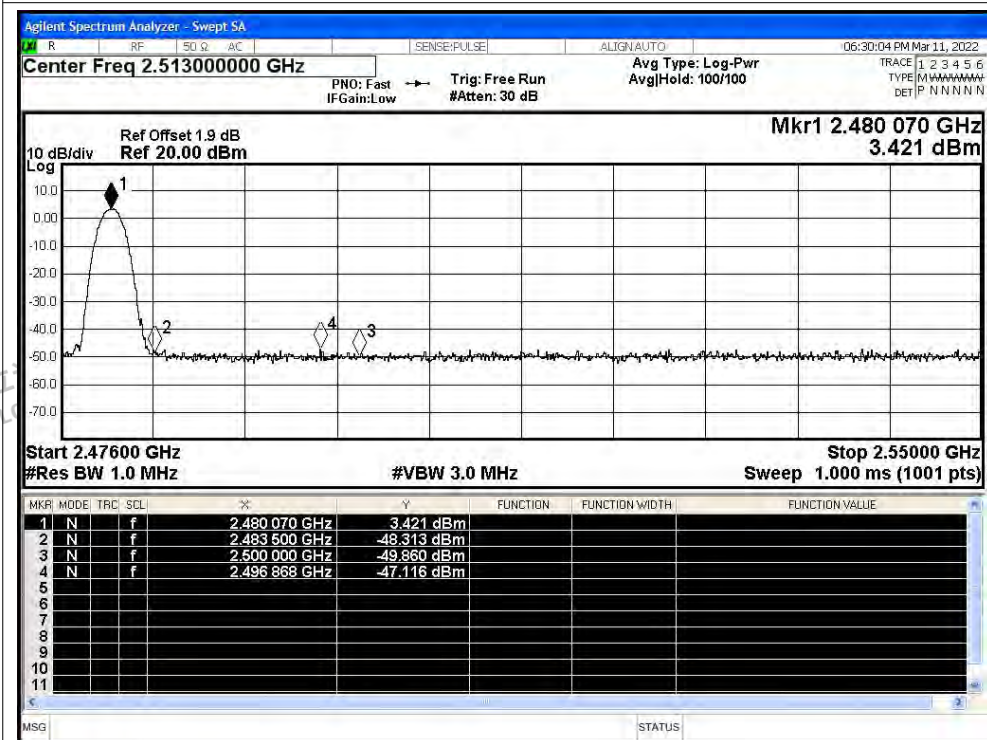
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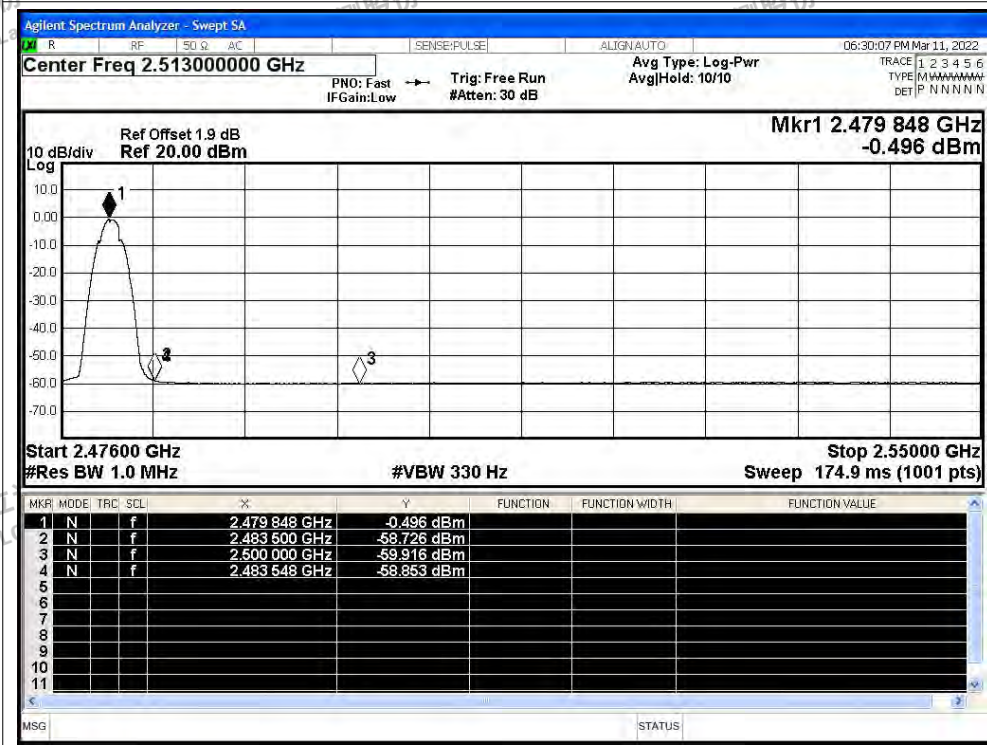
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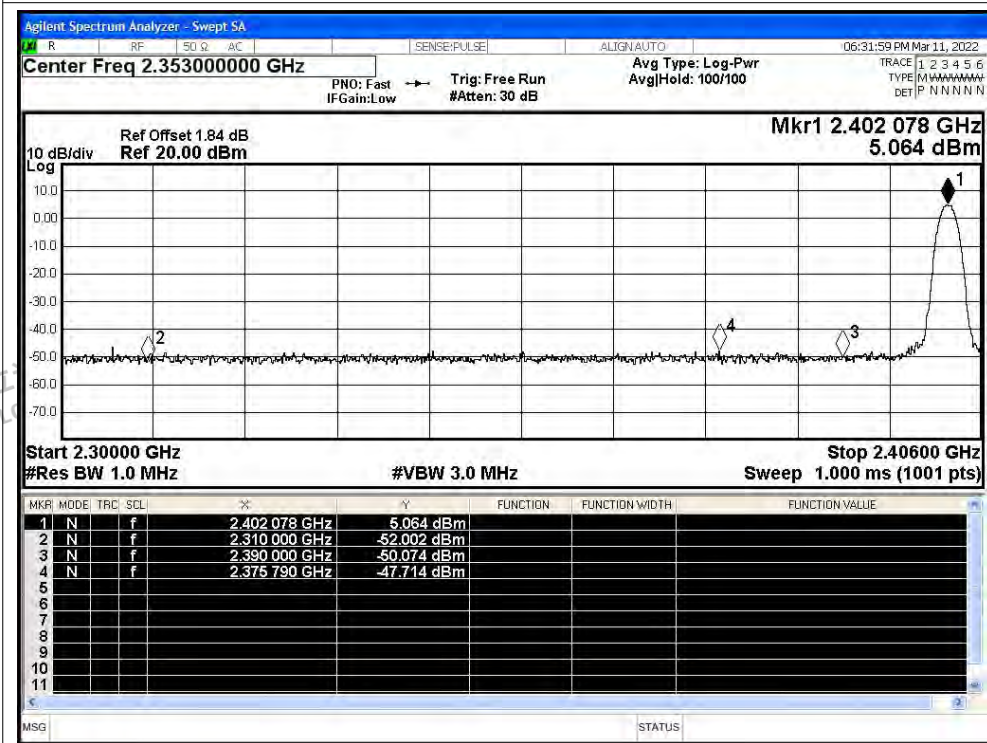
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



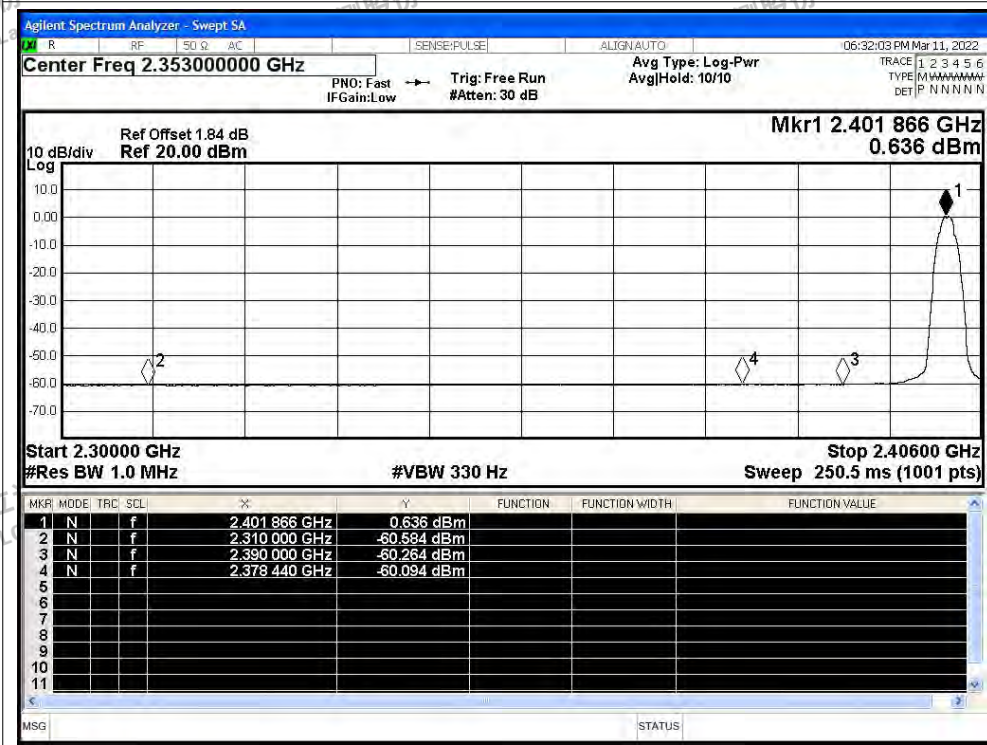
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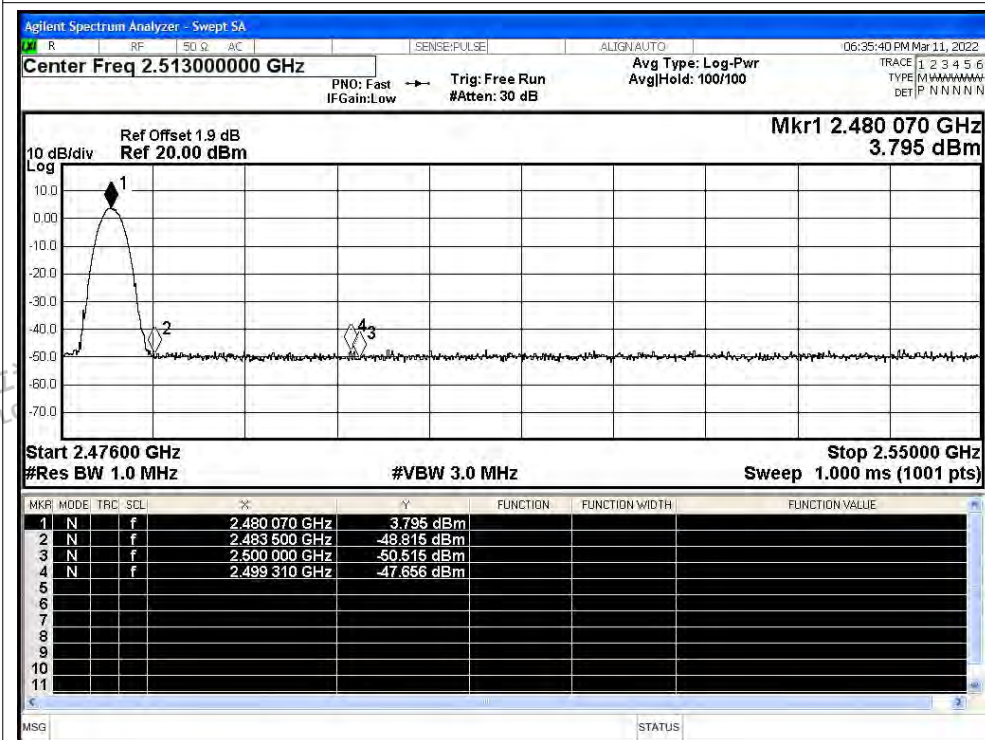
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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

