



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Edge development board

Test Model: DB3576

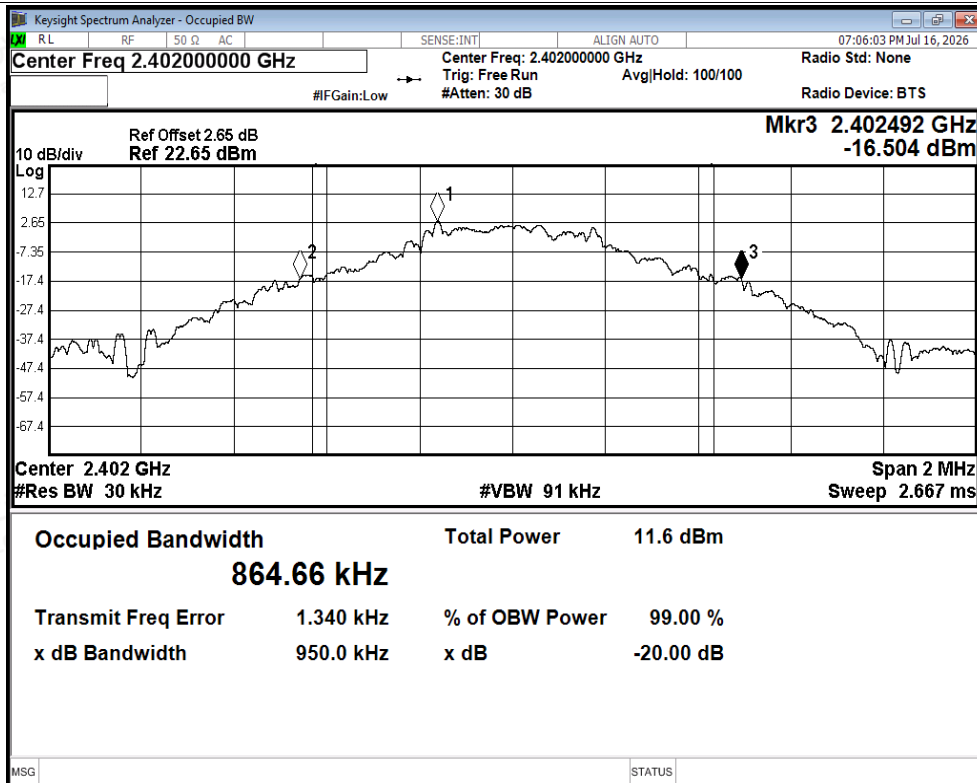
Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

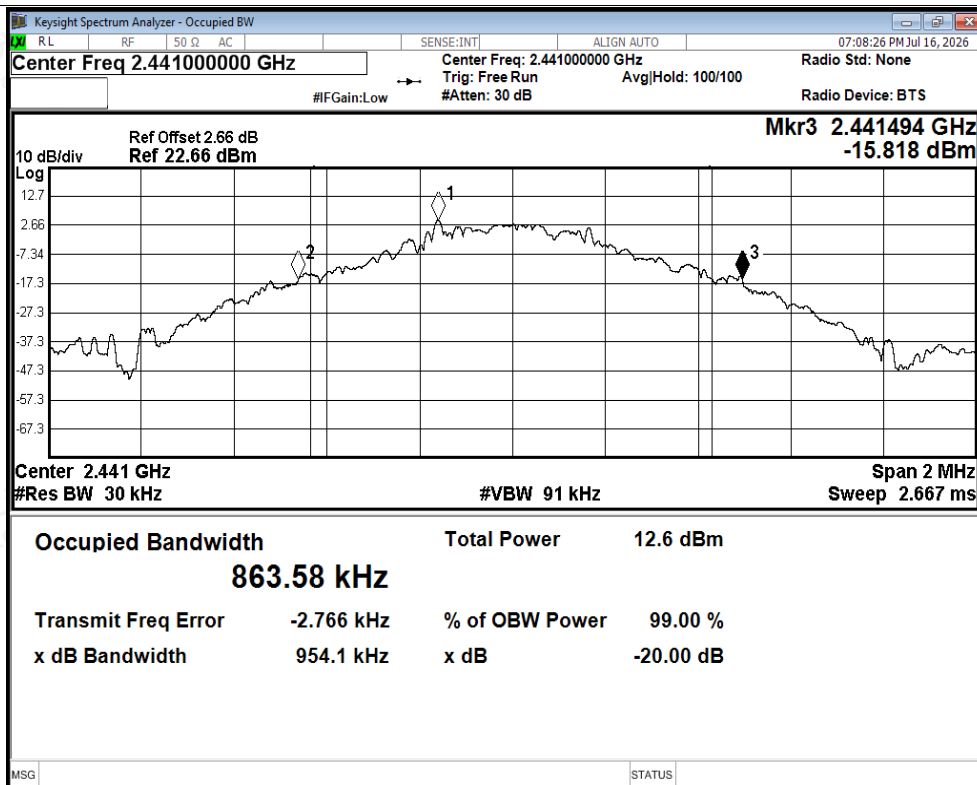


A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.95	---	Pass
NVNT	1-DH5	2441	Ant1	0.9541	---	Pass
NVNT	1-DH5	2480	Ant1	0.9398	---	Pass
NVNT	2-DH5	2402	Ant1	1.287	---	Pass
NVNT	2-DH5	2441	Ant1	1.311	---	Pass
NVNT	2-DH5	2480	Ant1	1.283	---	Pass
NVNT	3-DH5	2402	Ant1	1.301	---	Pass
NVNT	3-DH5	2441	Ant1	1.303	---	Pass
NVNT	3-DH5	2480	Ant1	1.286	---	Pass



-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

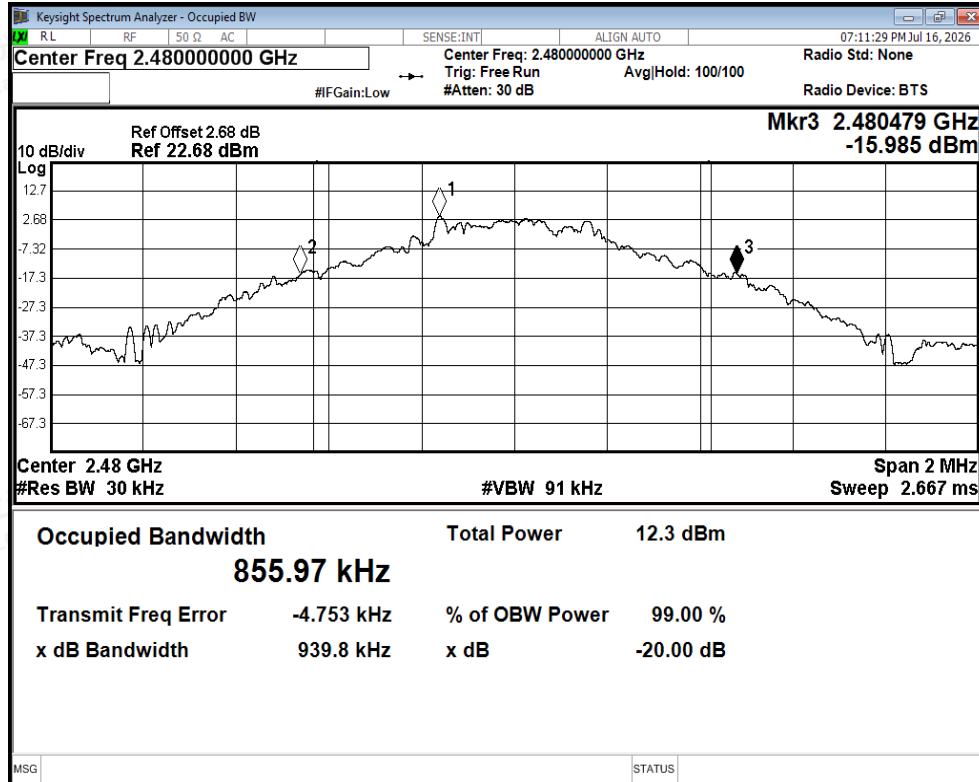


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

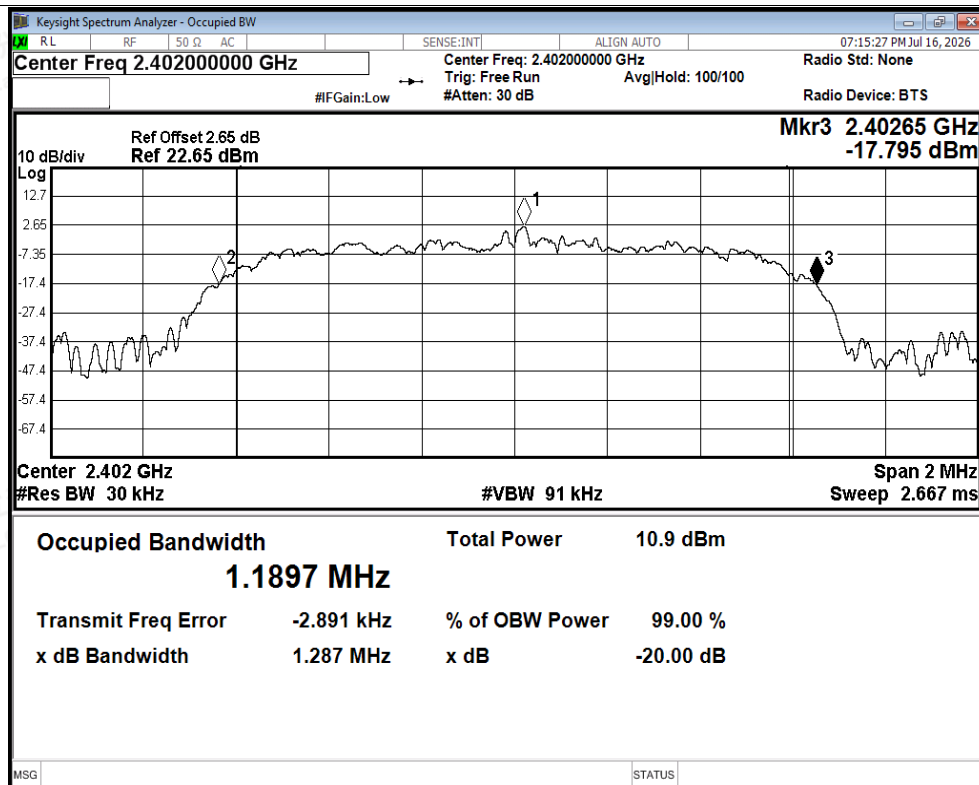
Shenzhen LCS Compliance Testing Laboratory Ltd.

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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

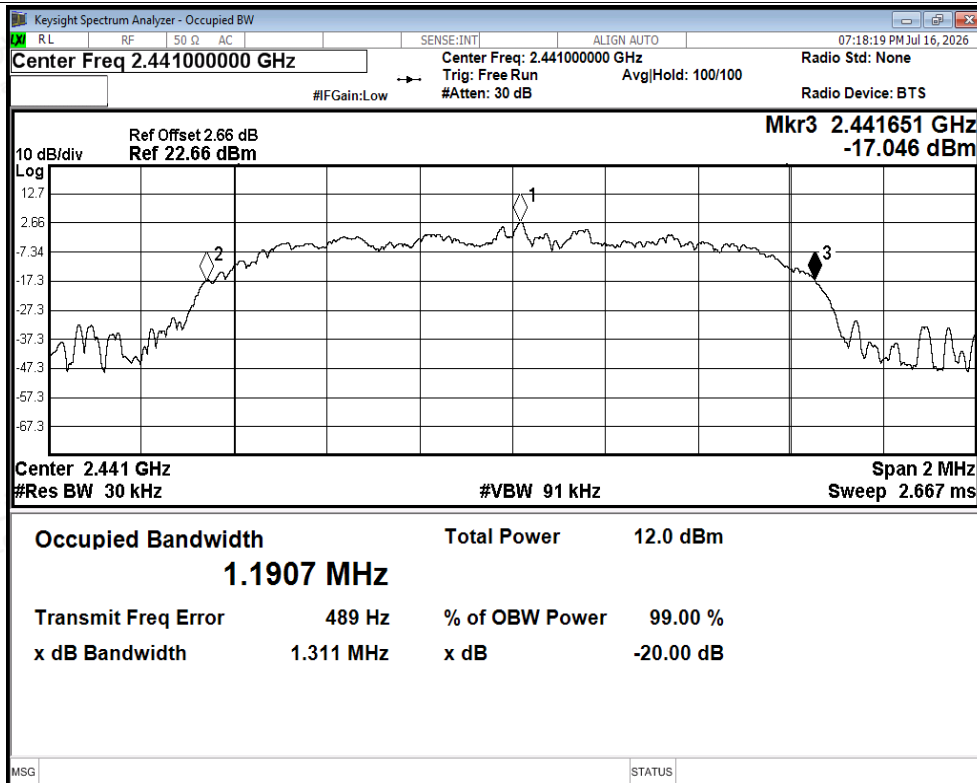


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

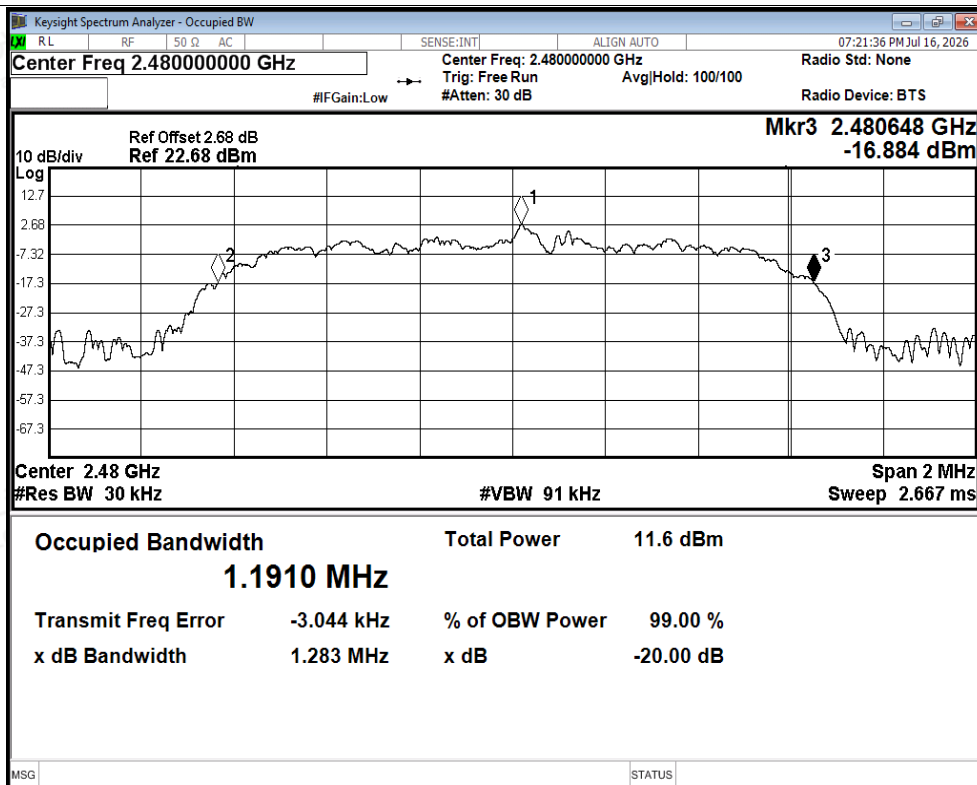
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

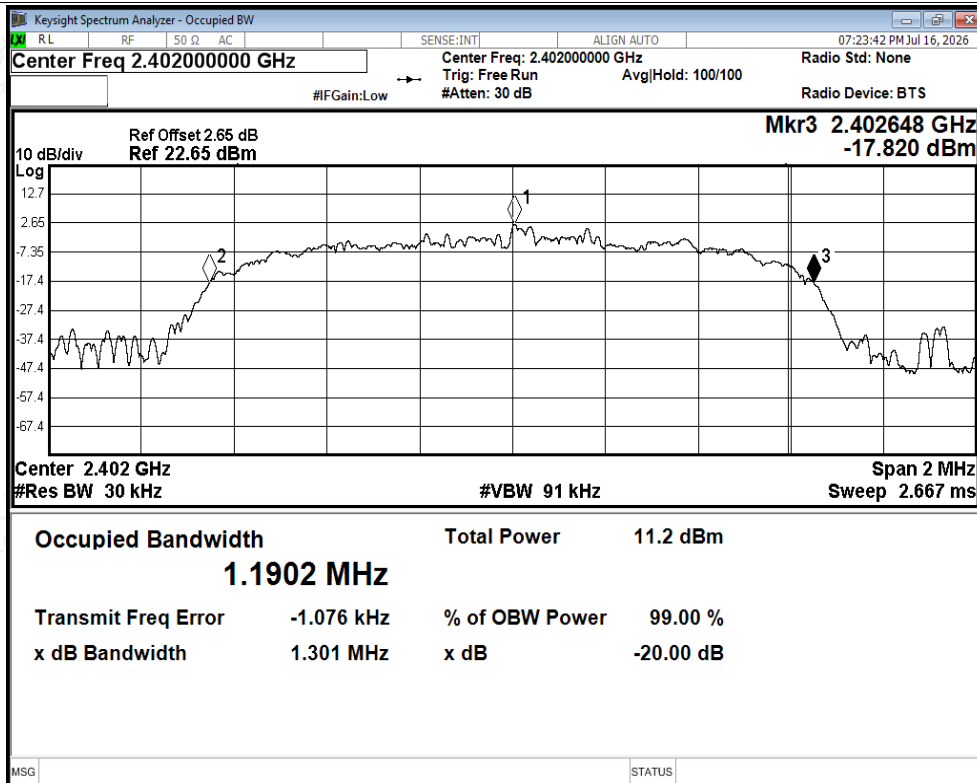


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

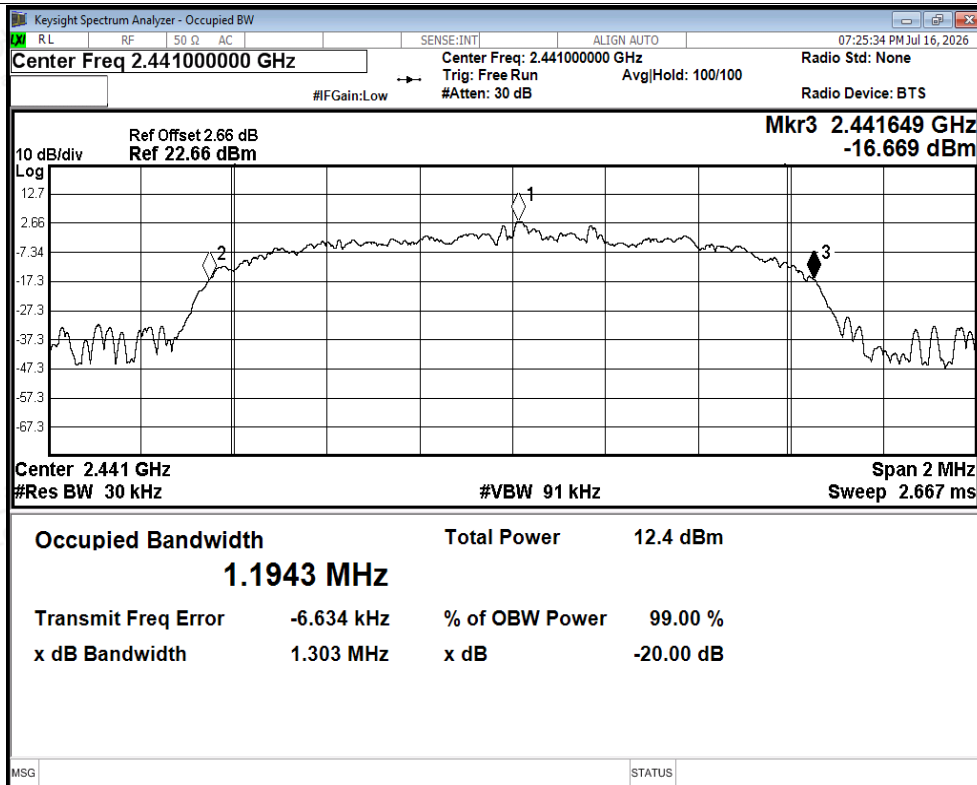
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

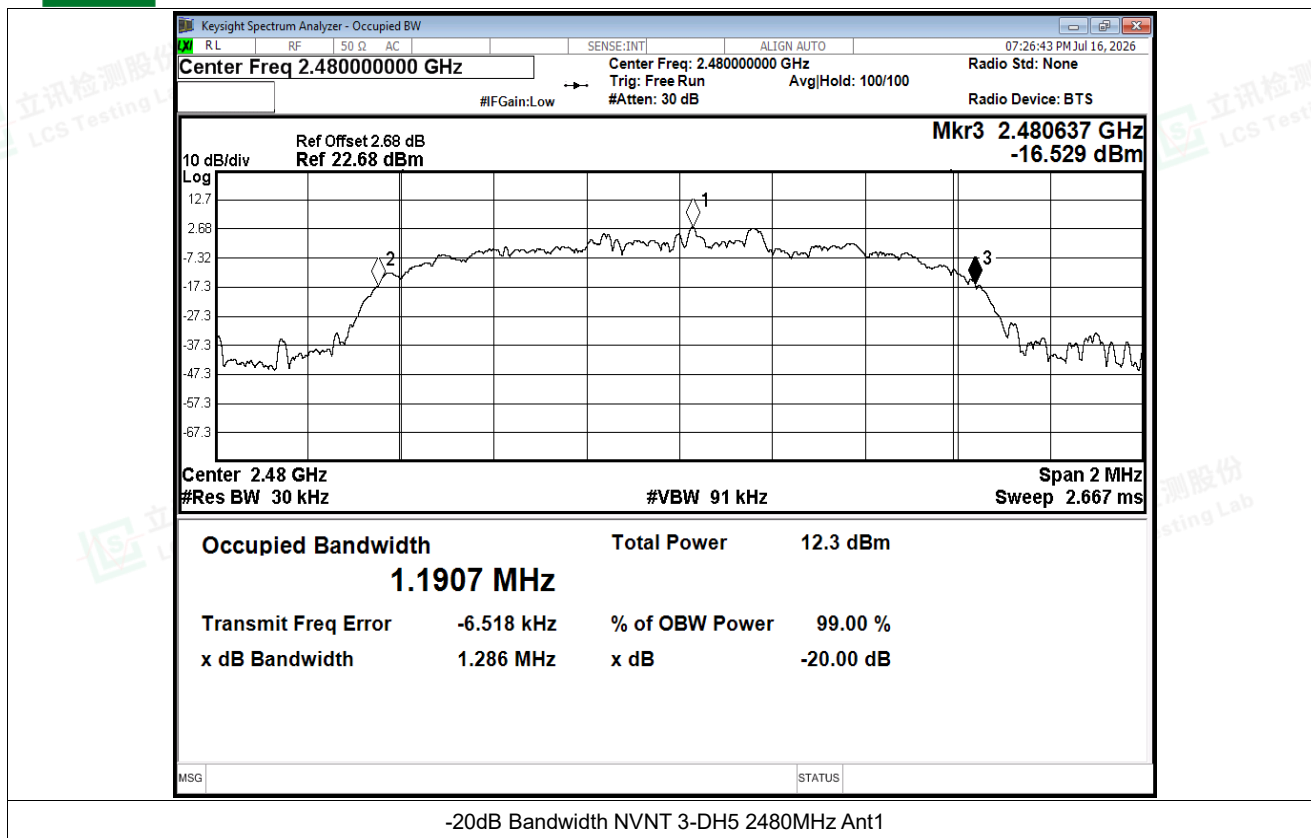


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

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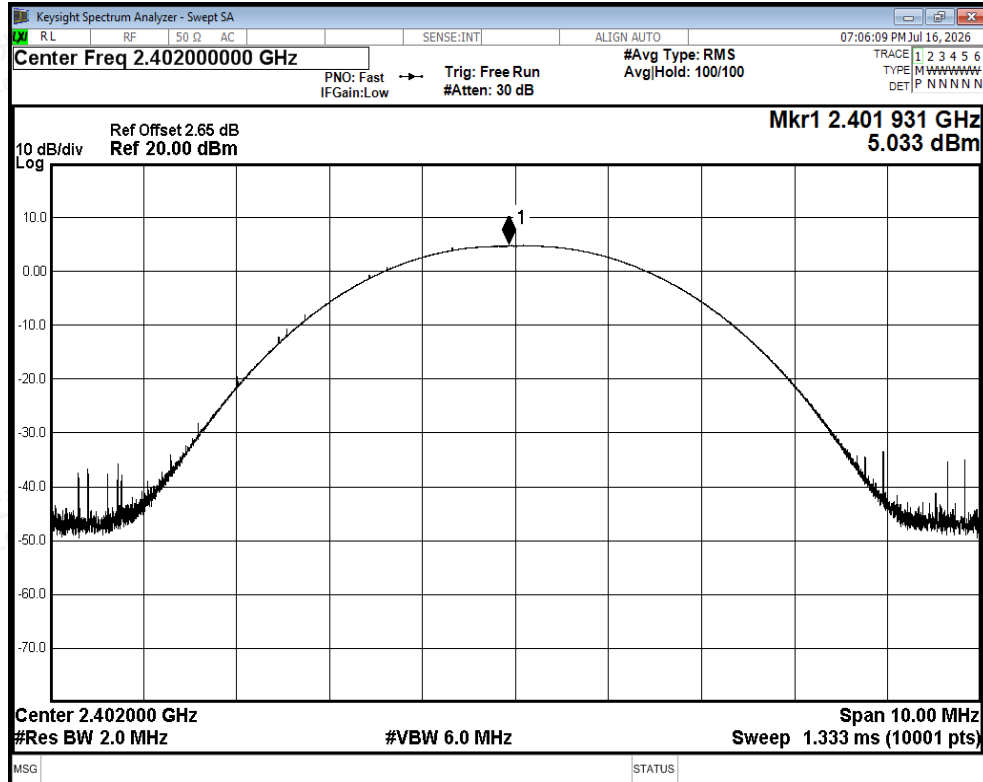
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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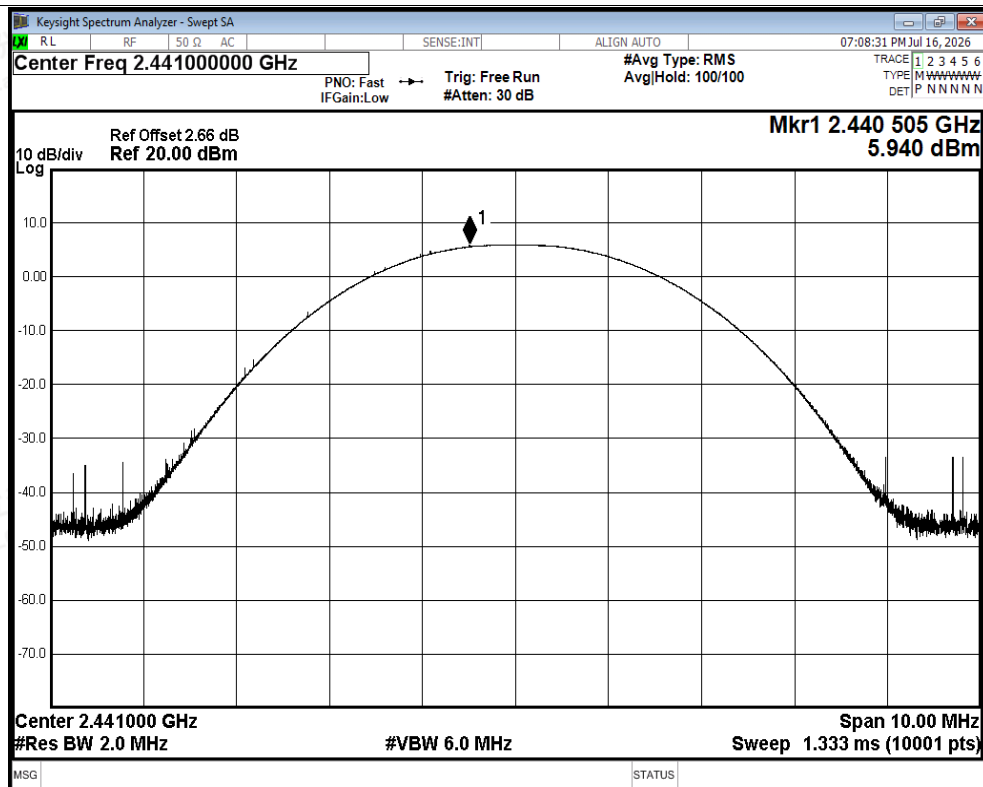


A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.03	30	Pass
NVNT	1-DH5	2441	Ant1	5.94	30	Pass
NVNT	1-DH5	2480	Ant1	5.74	30	Pass
NVNT	2-DH5	2402	Ant1	6.52	30	Pass
NVNT	2-DH5	2441	Ant1	7.65	30	Pass
NVNT	2-DH5	2480	Ant1	6.99	30	Pass
NVNT	3-DH5	2402	Ant1	6.74	30	Pass
NVNT	3-DH5	2441	Ant1	7.96	30	Pass
NVNT	3-DH5	2480	Ant1	7.27	30	Pass



Peak Power NVNT 1-DH5 2402MHz Ant1

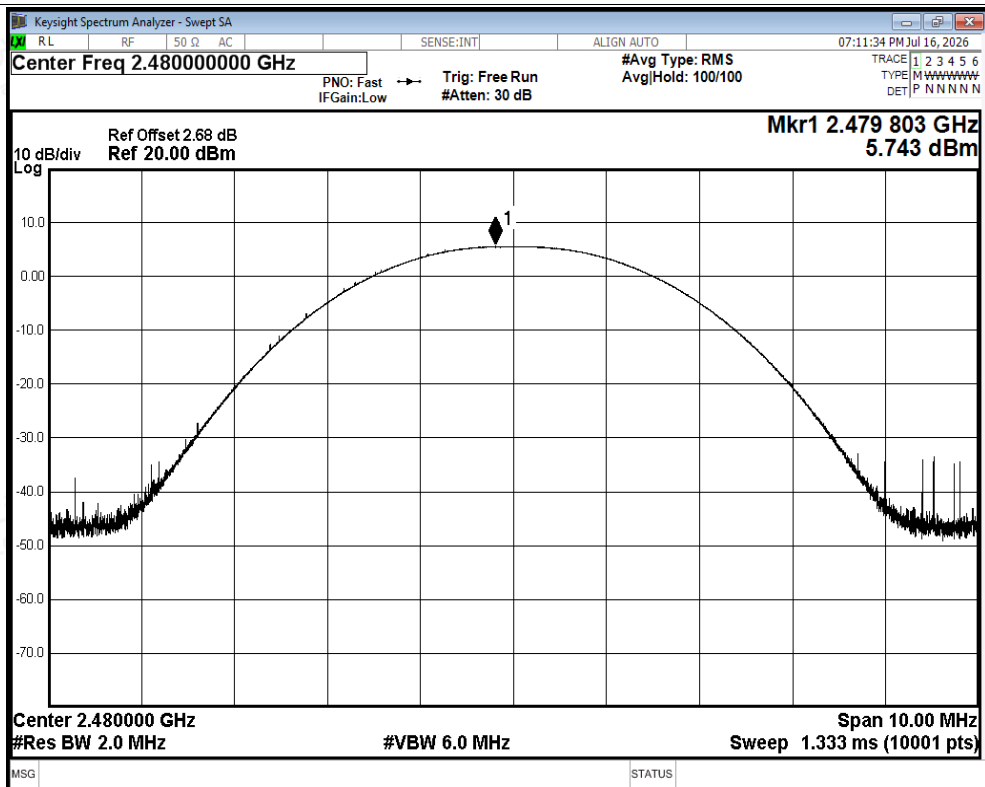


Peak Power NVNT 1-DH5 2441MHz Ant1

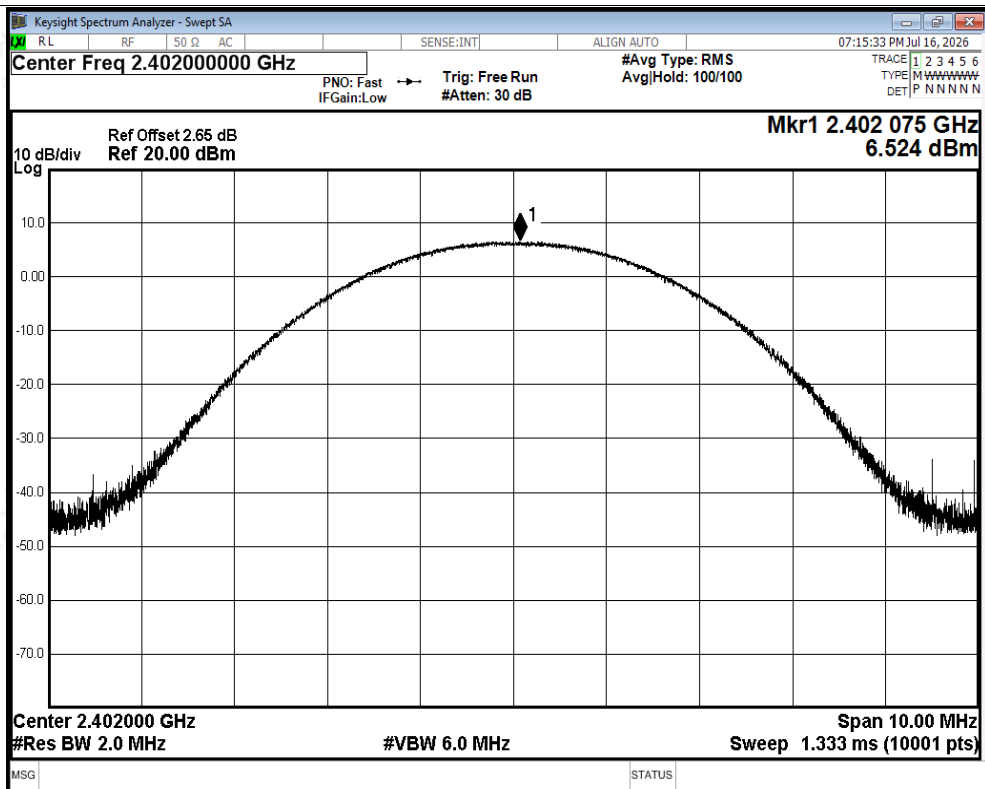
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Peak Power NVNT 1-DH5 2480MHz Ant1

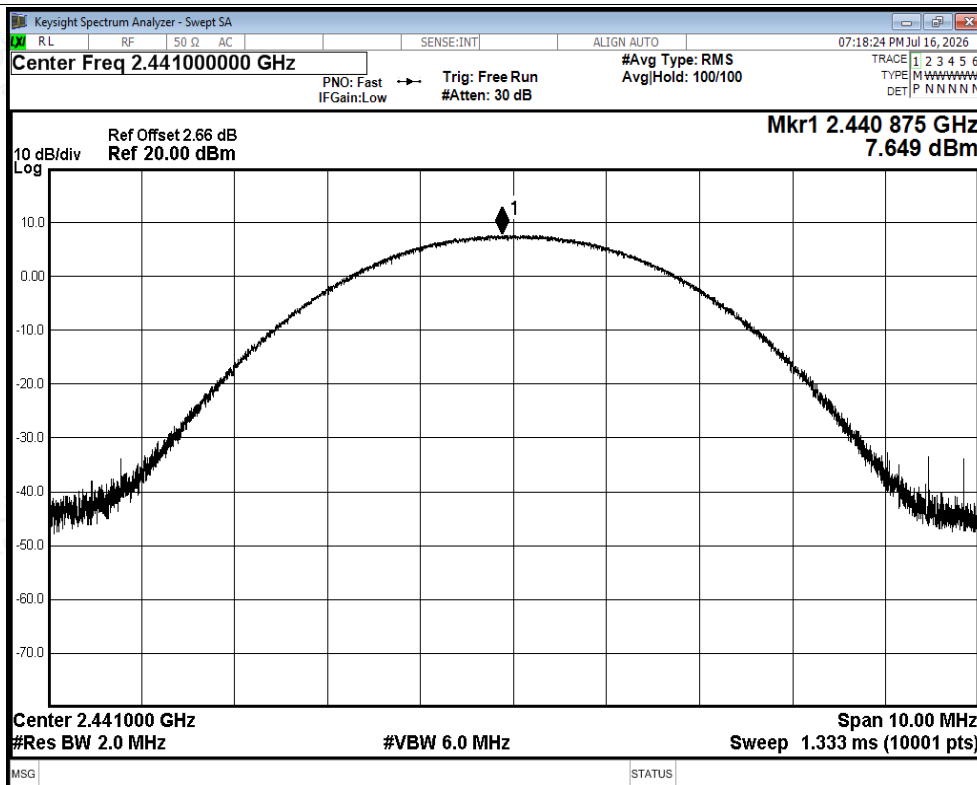


Peak Power NVNT 2-DH5 2402MHz Ant1

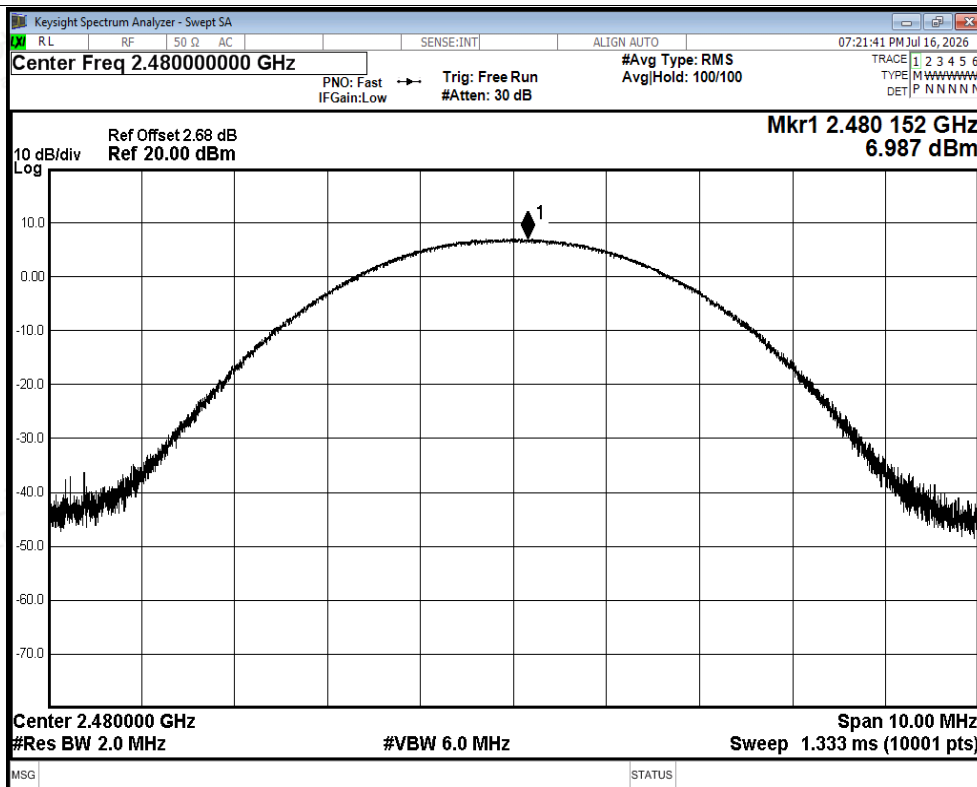
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Peak Power NVNT 2-DH5 2441MHz Ant1

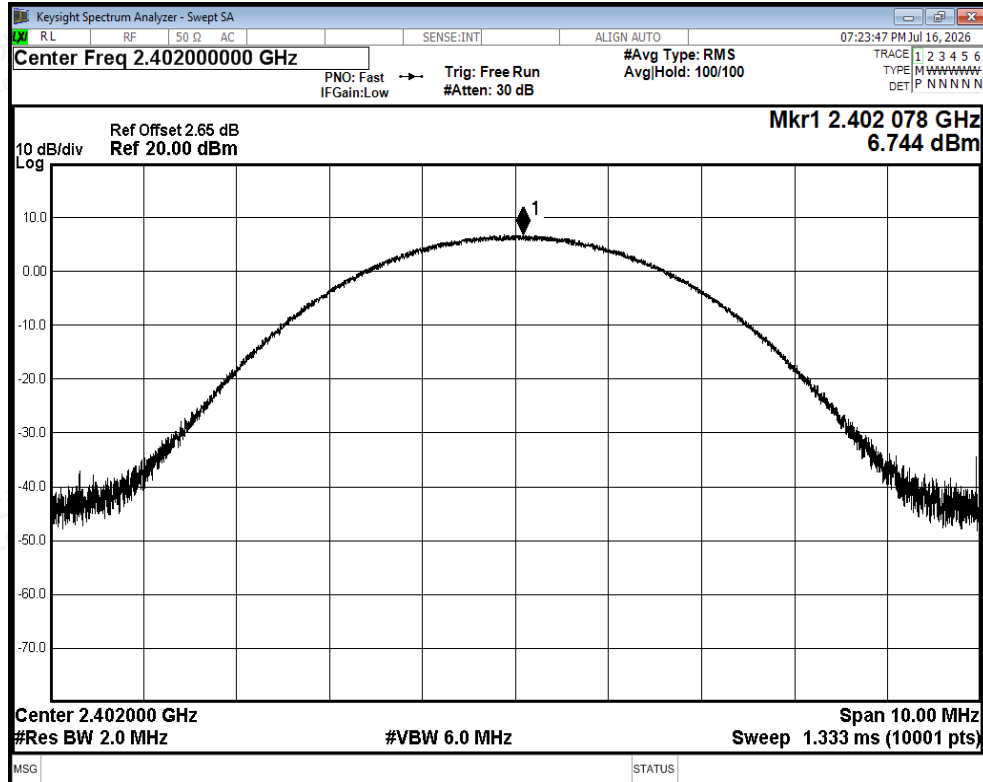


Peak Power NVNT 2-DH5 2480MHz Ant1

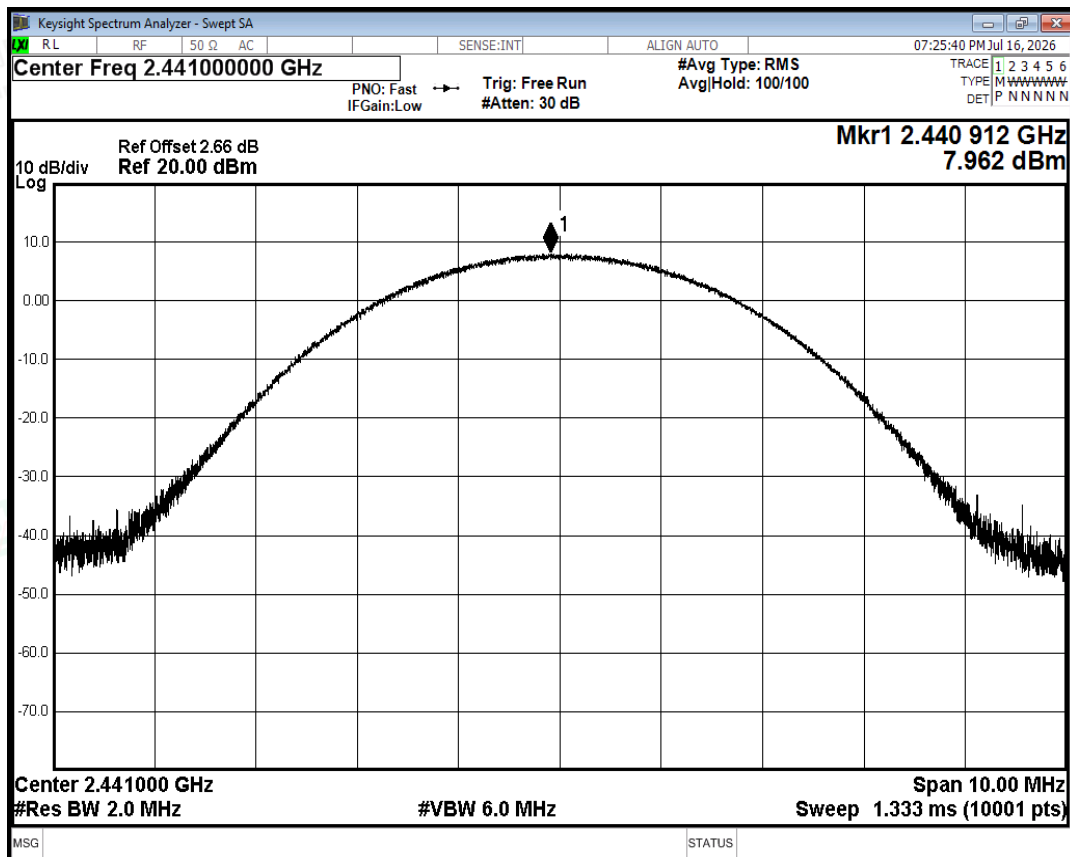
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Peak Power NVNT 3-DH5 2402MHz Ant1

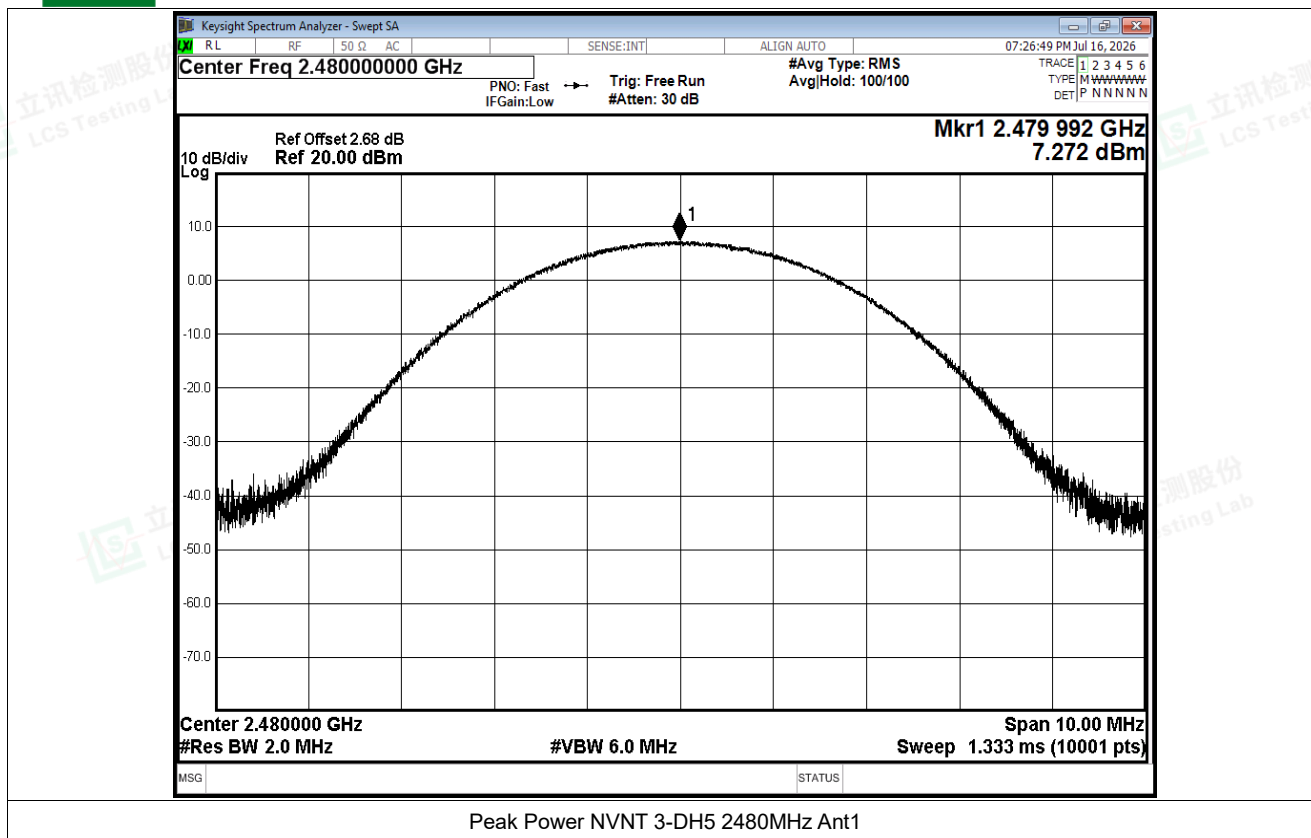


Peak Power NVNT 3-DH5 2441MHz Ant1

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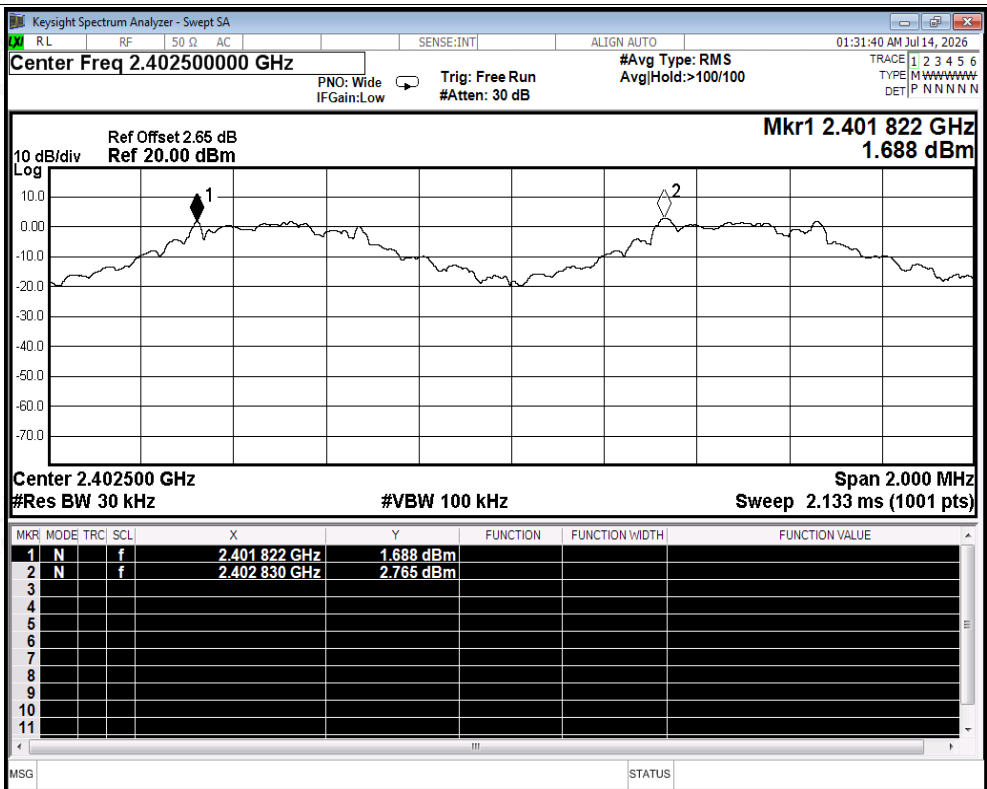
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.822	2402.83	1.008	0.636	Pass
NVNT	2-DH5	Ant1	2402.018	2403.026	1.008	0.874	Pass
NVNT	3-DH5	Ant1	2402.006	2403.022	1.016	0.869	Pass

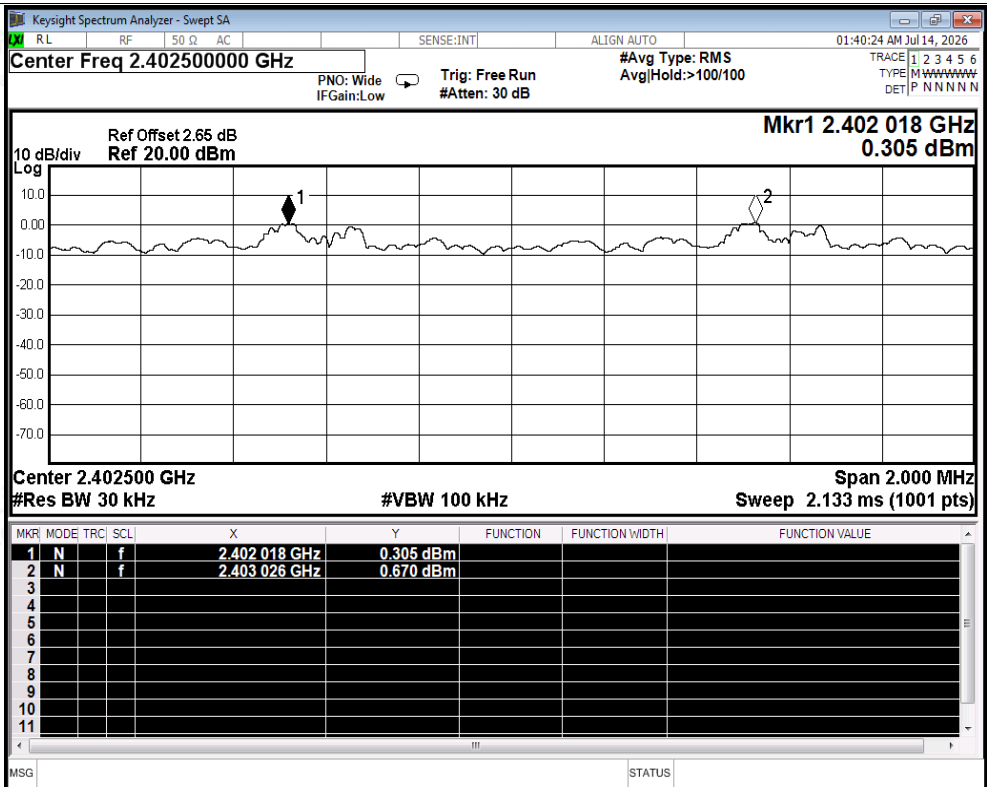
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CFS NVNT 1-DH5 2402MHz Ant1

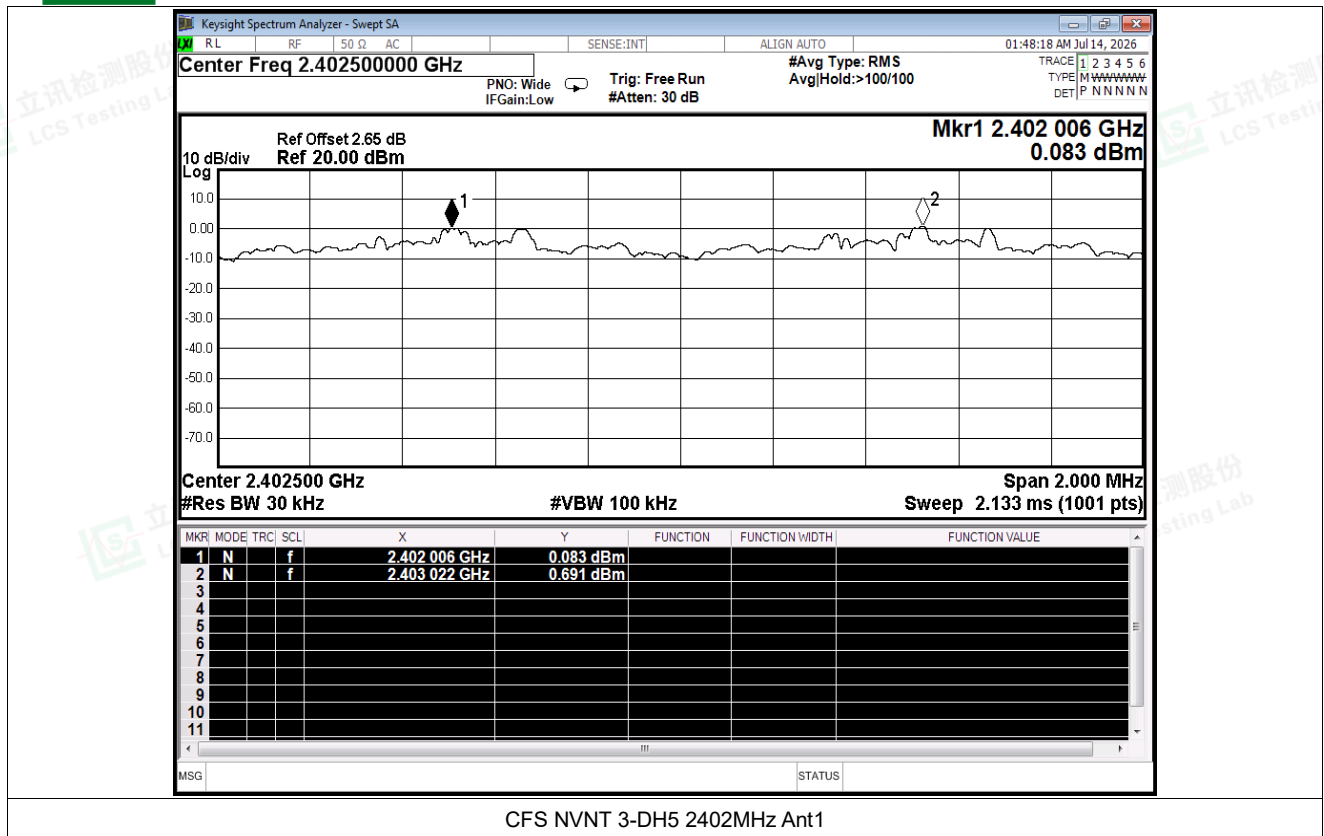


CFS NVNT 2-DH5 2402MHz Ant1

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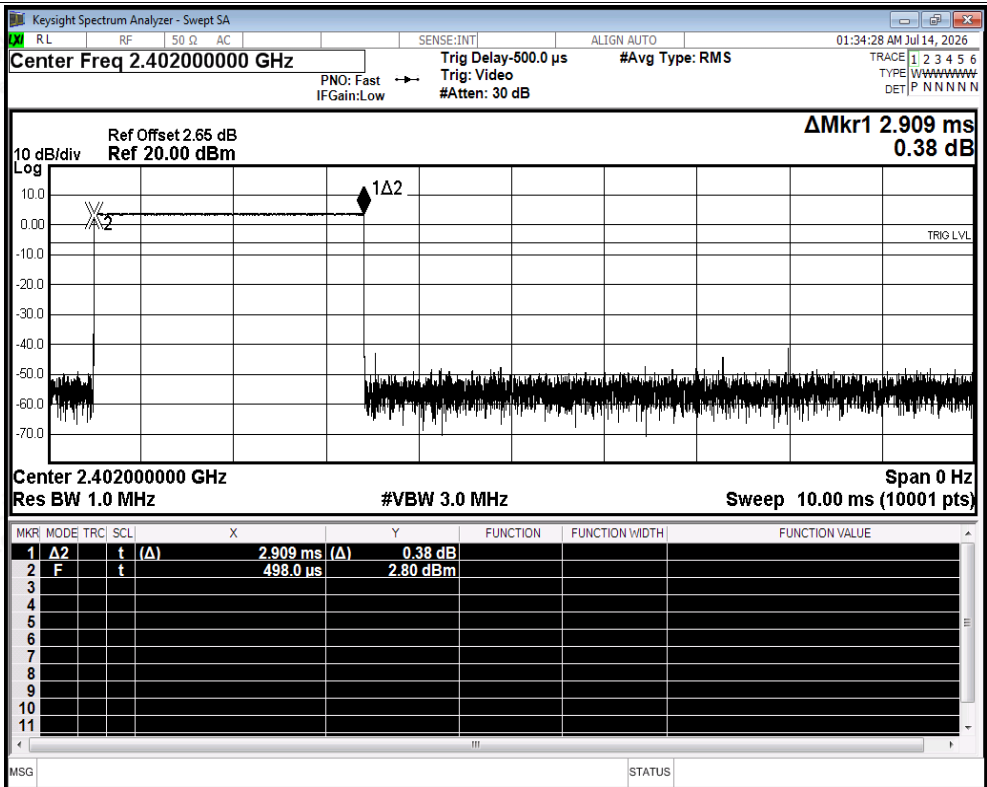
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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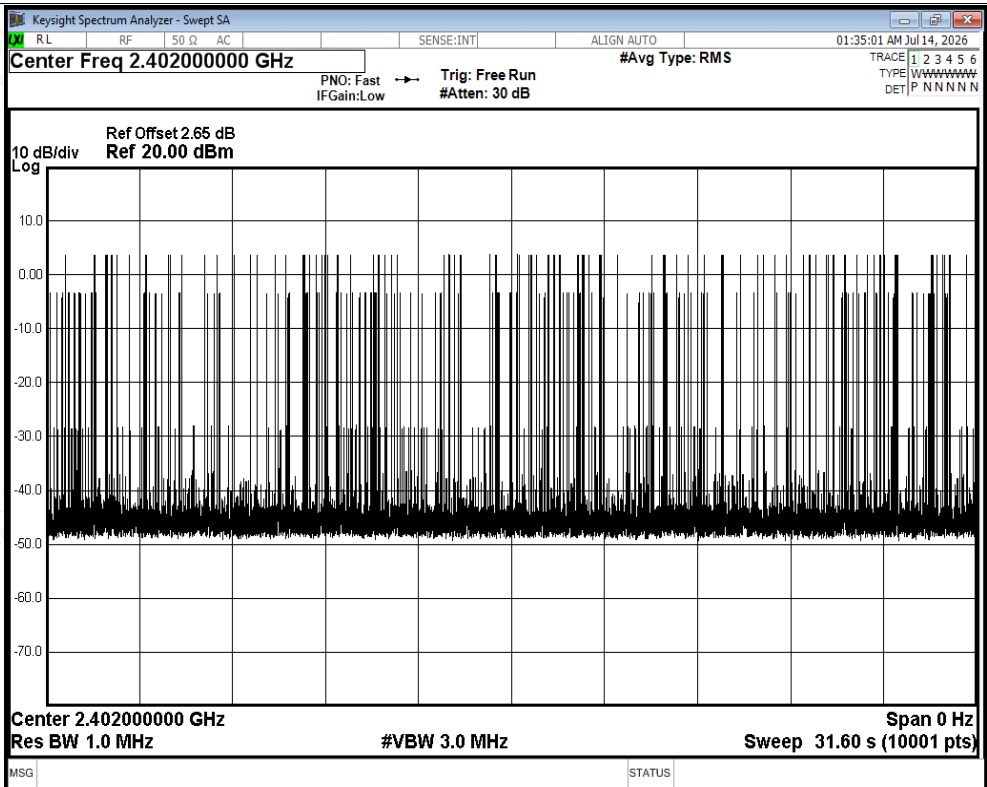


A.4 Dwell Time

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	2.909	287.991	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.884	311.472	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.896	304.08	105	31600	400	Pass



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

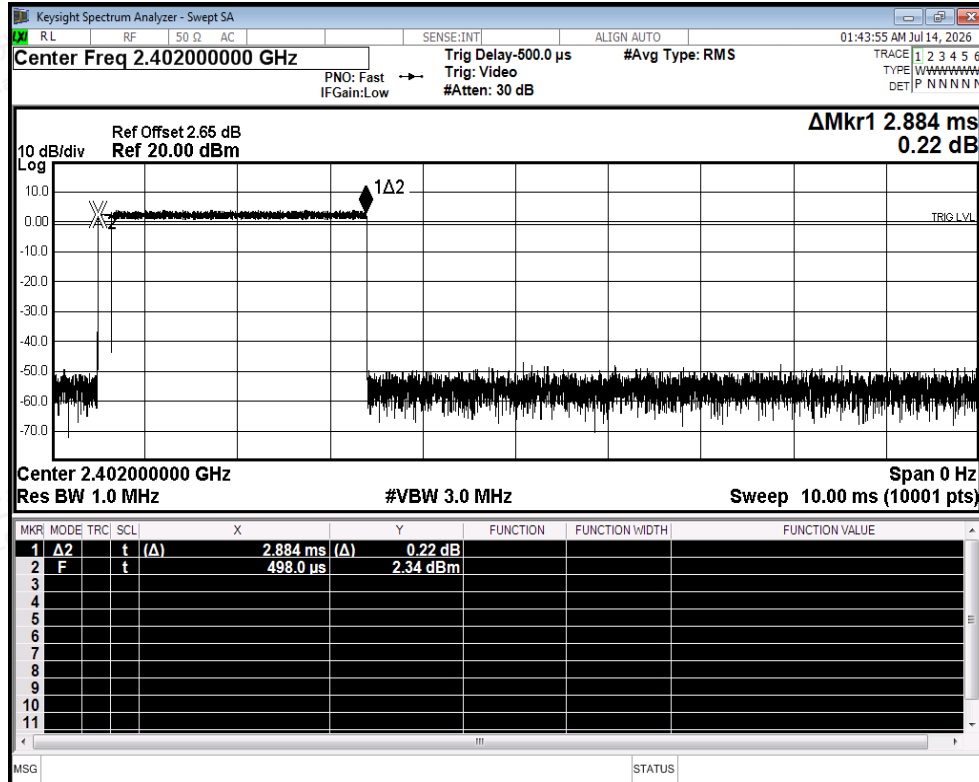


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

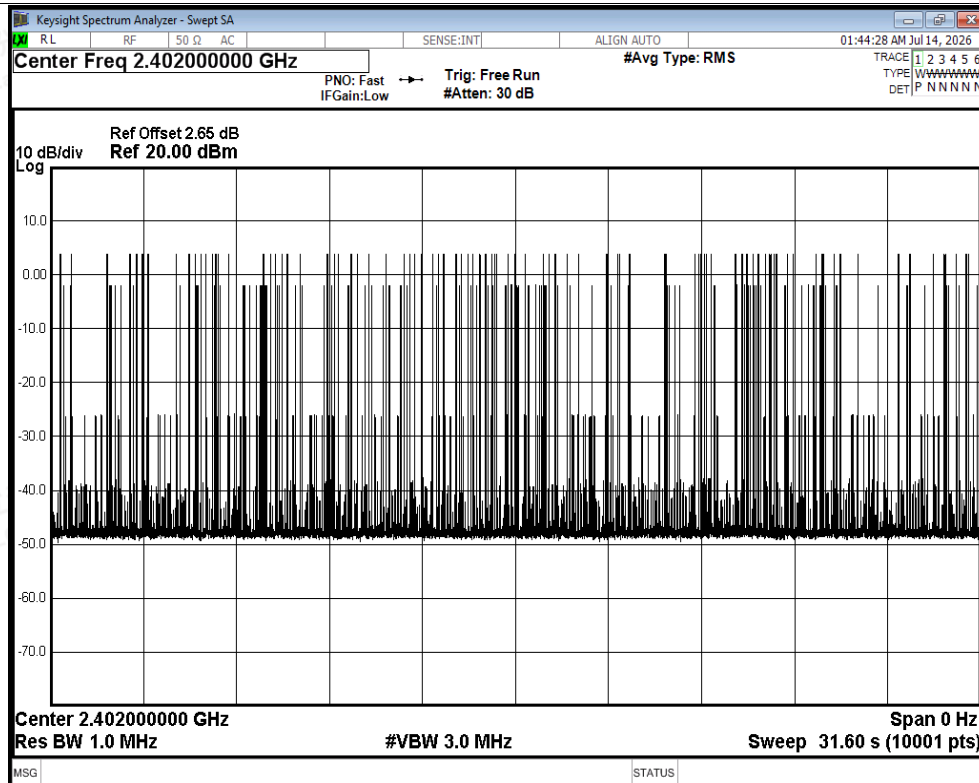
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

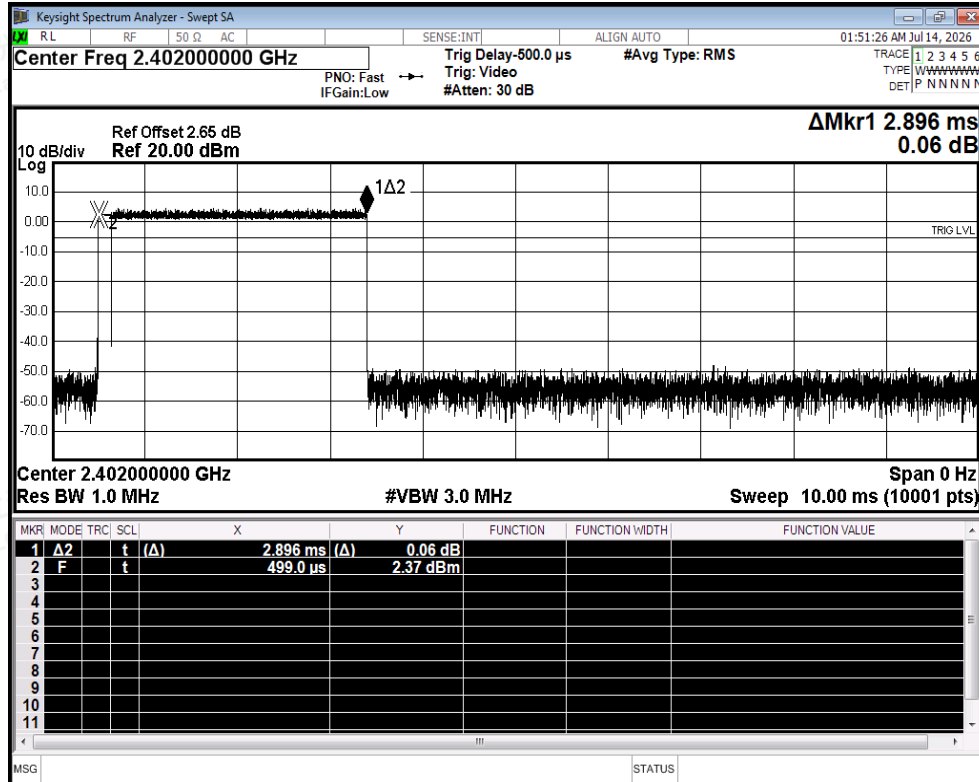


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

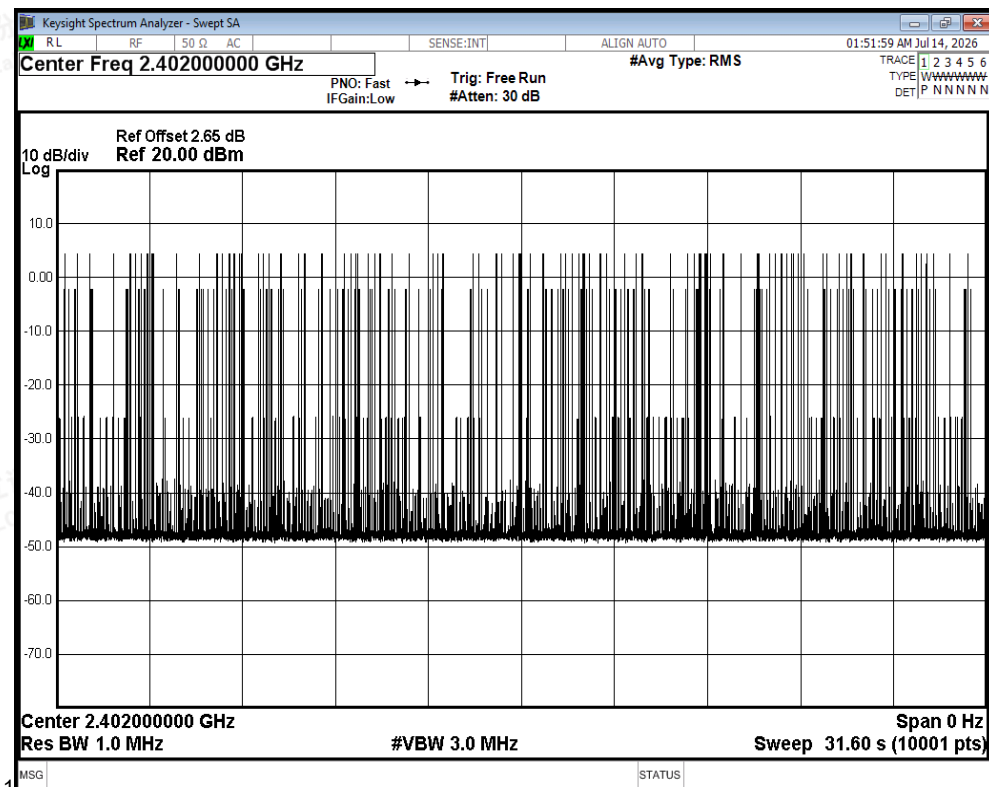
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

Shenzhen LCS Compliance Testing Laboratory Ltd.

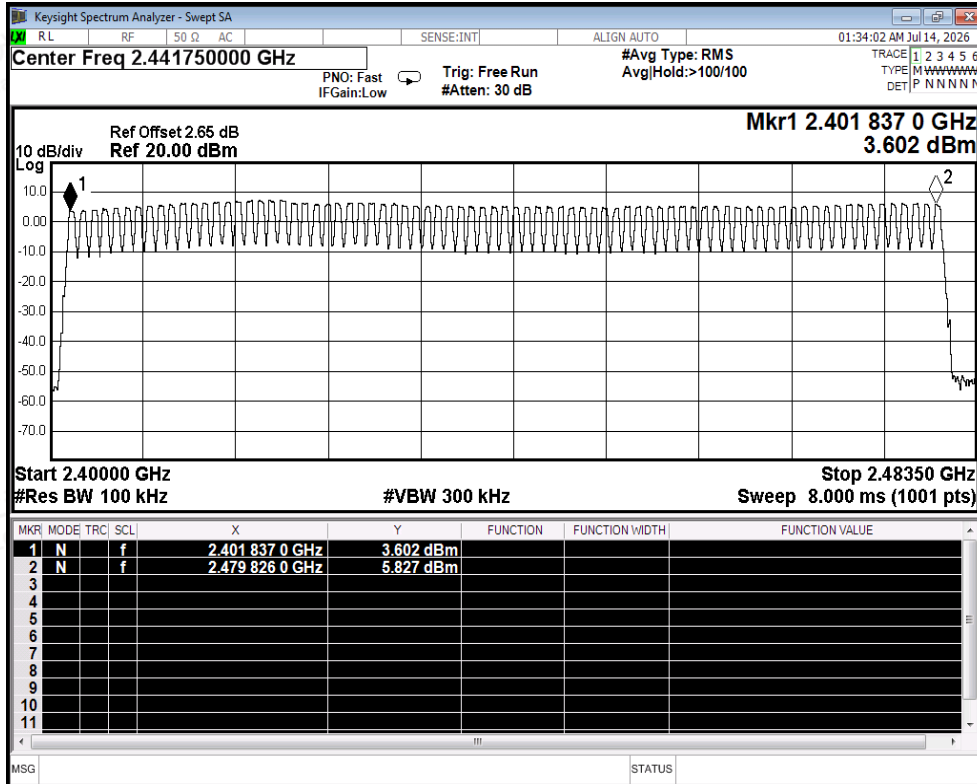
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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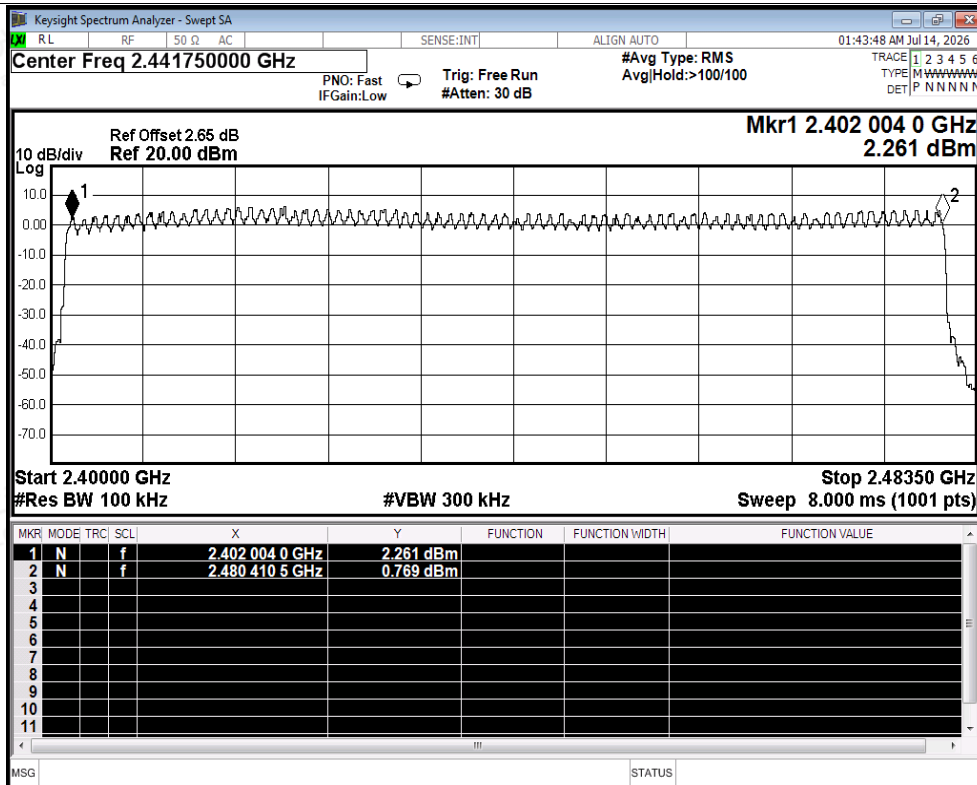


A.5 Number of Hopping Channel

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



Hopping No. NVNT 1-DH5 2402MHz Ant1

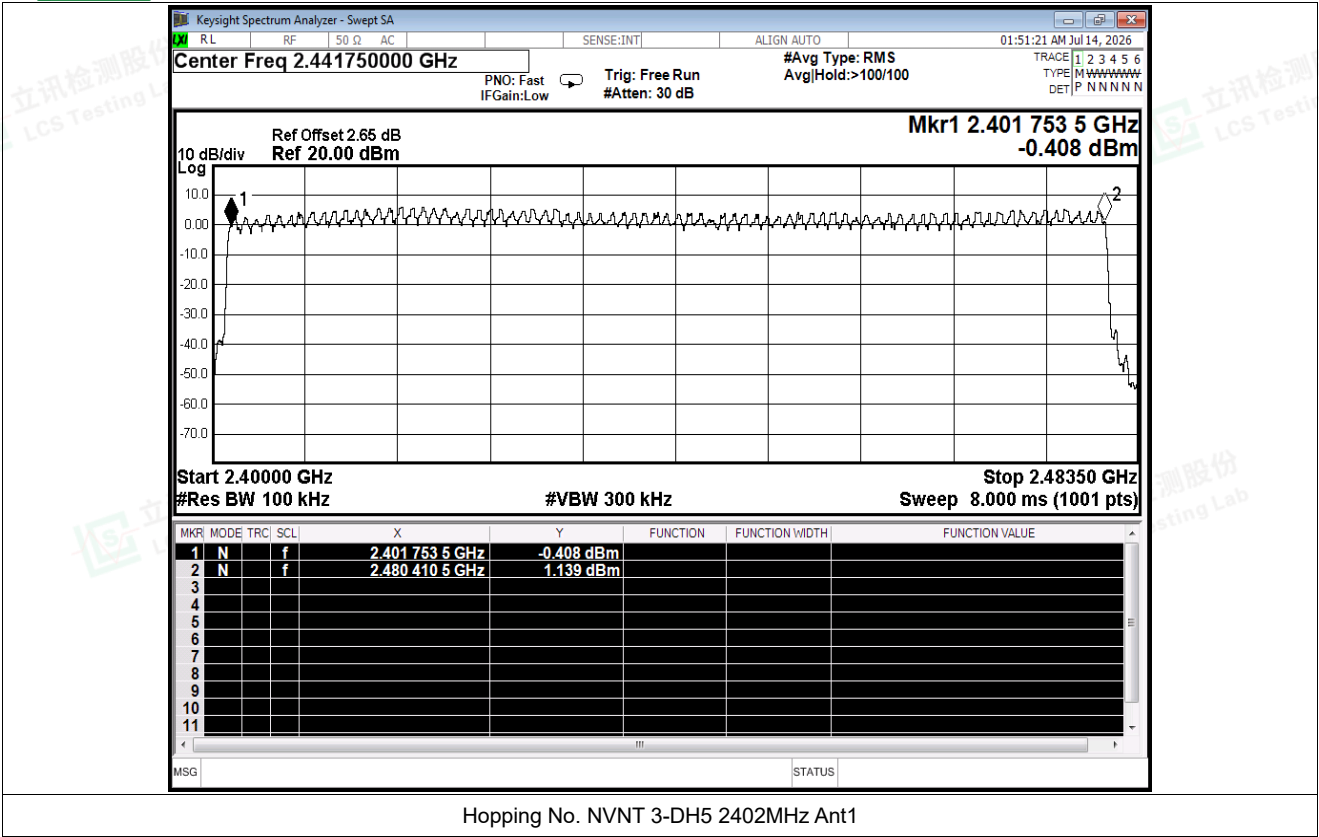


Hopping No. NVNT 2-DH5 2402MHz Ant1

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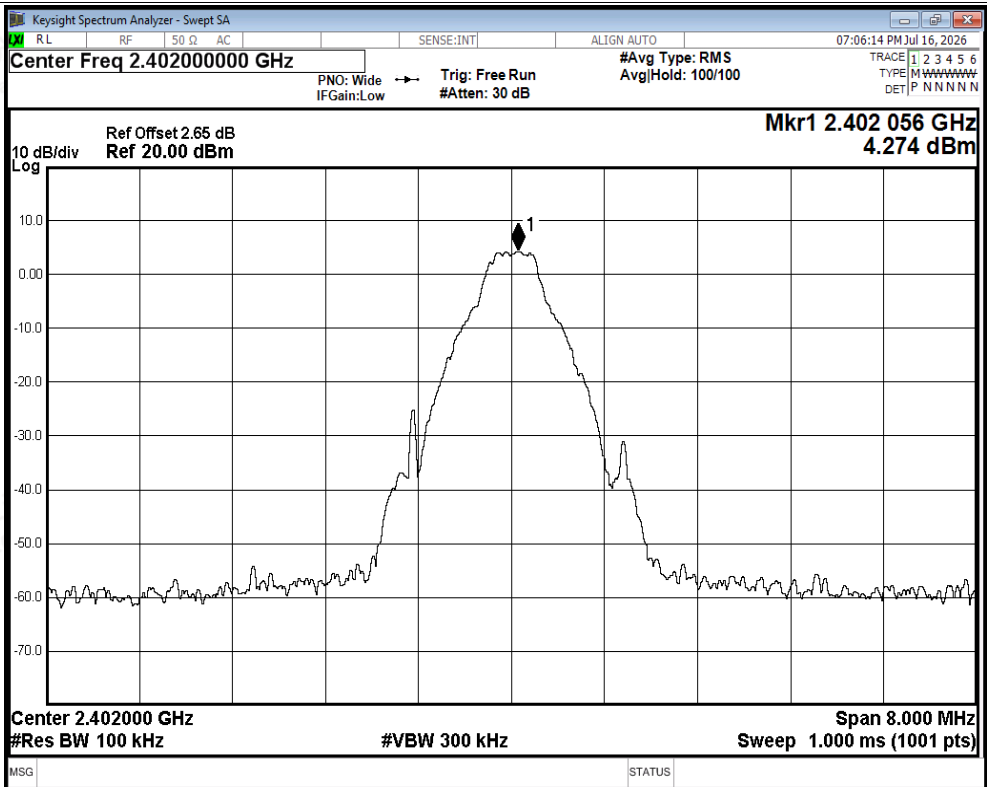
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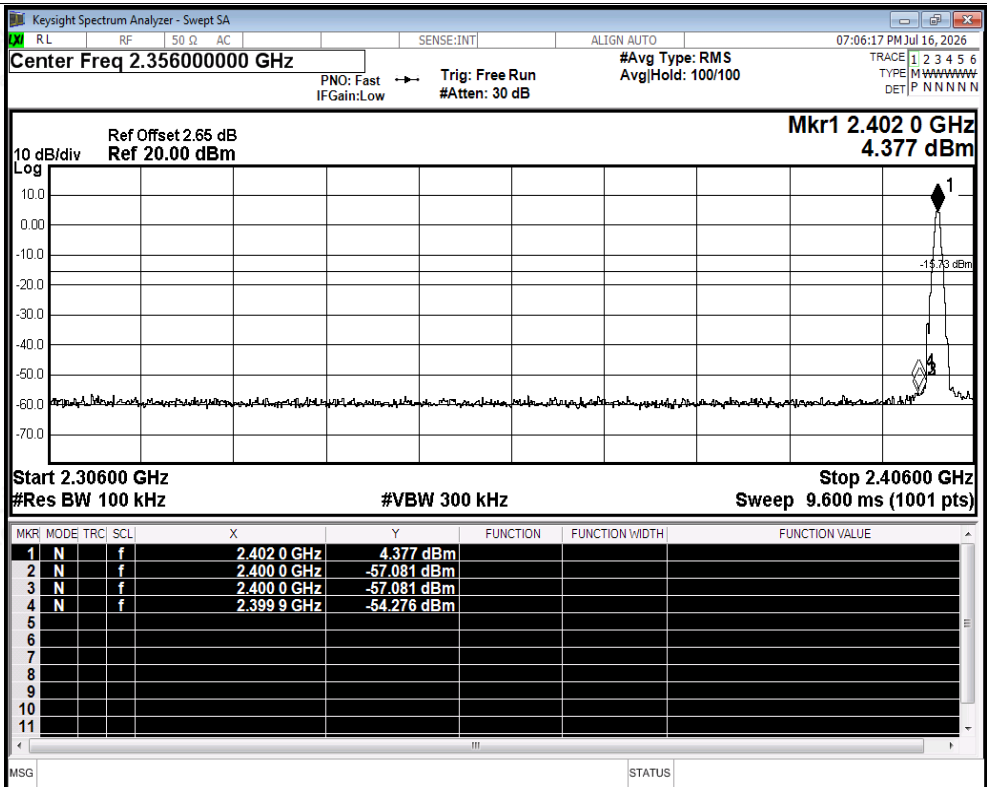


A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.54	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.38	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.66	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.63	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.4	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.03	-20	Pass



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

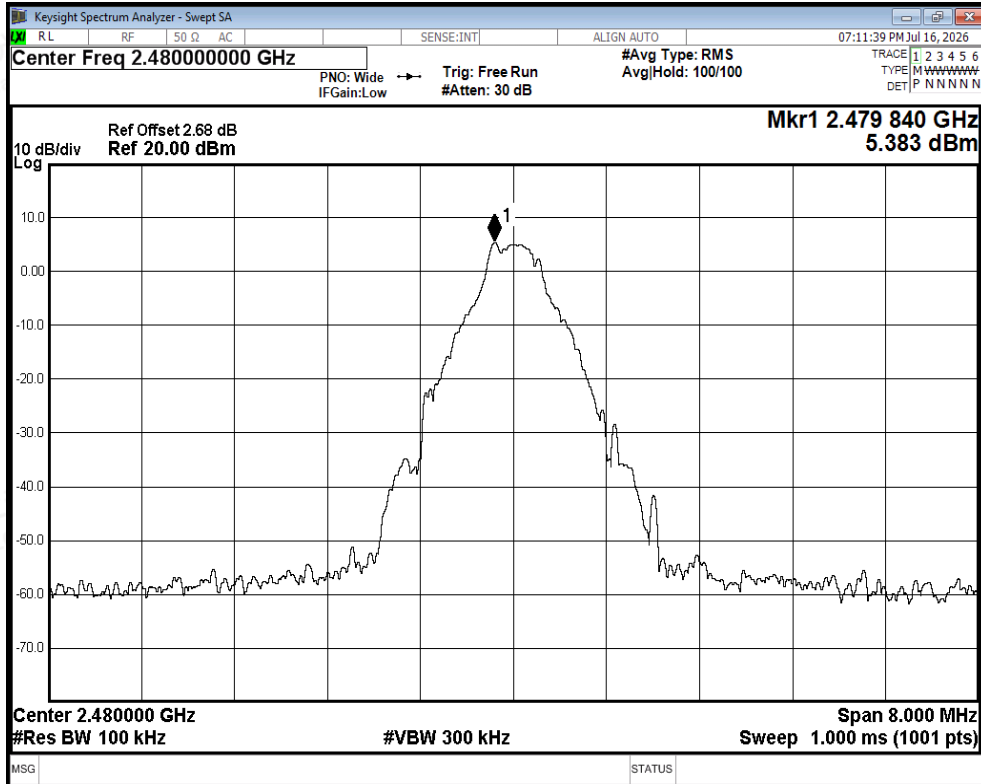


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

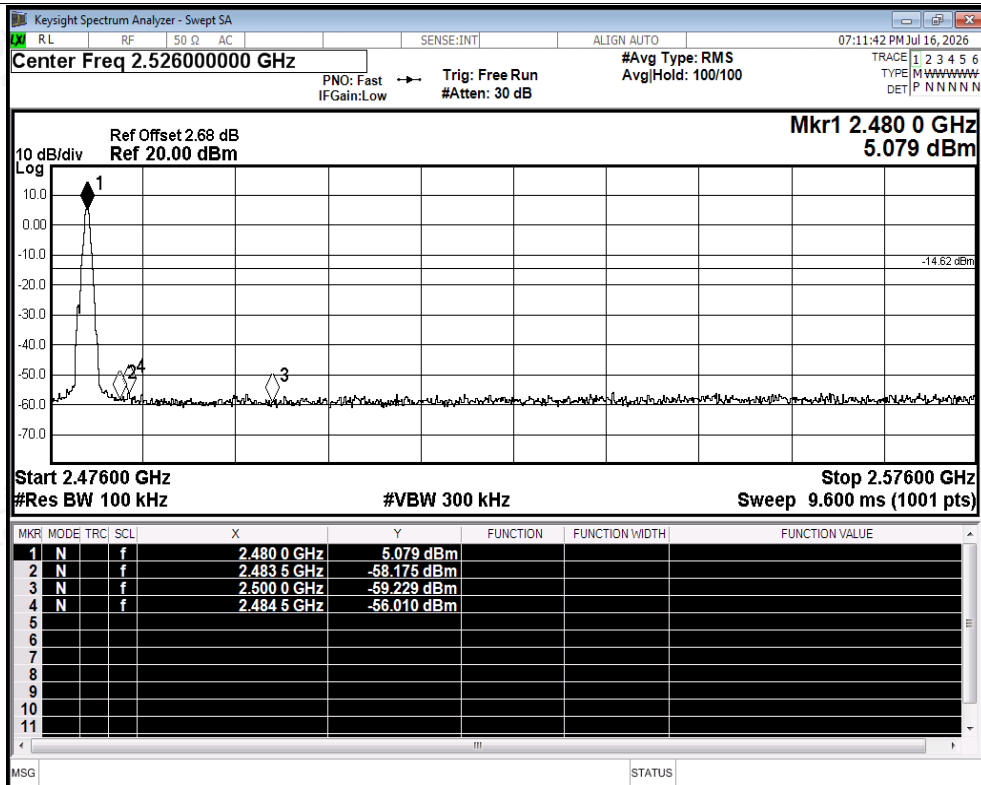
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

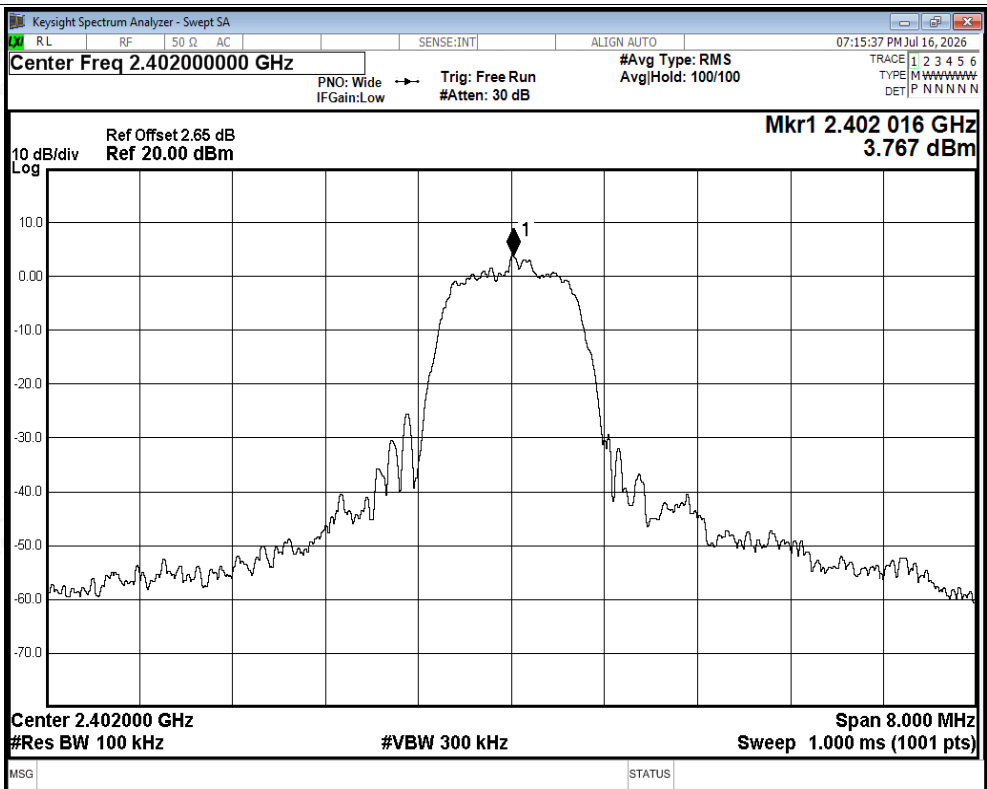


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

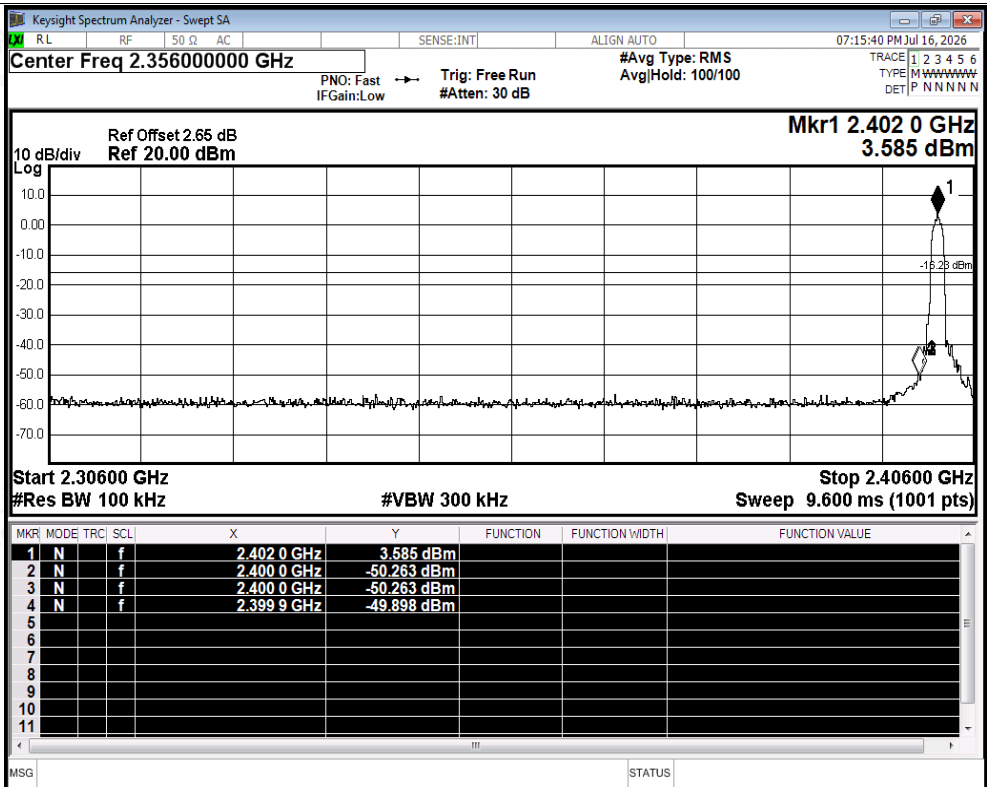
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

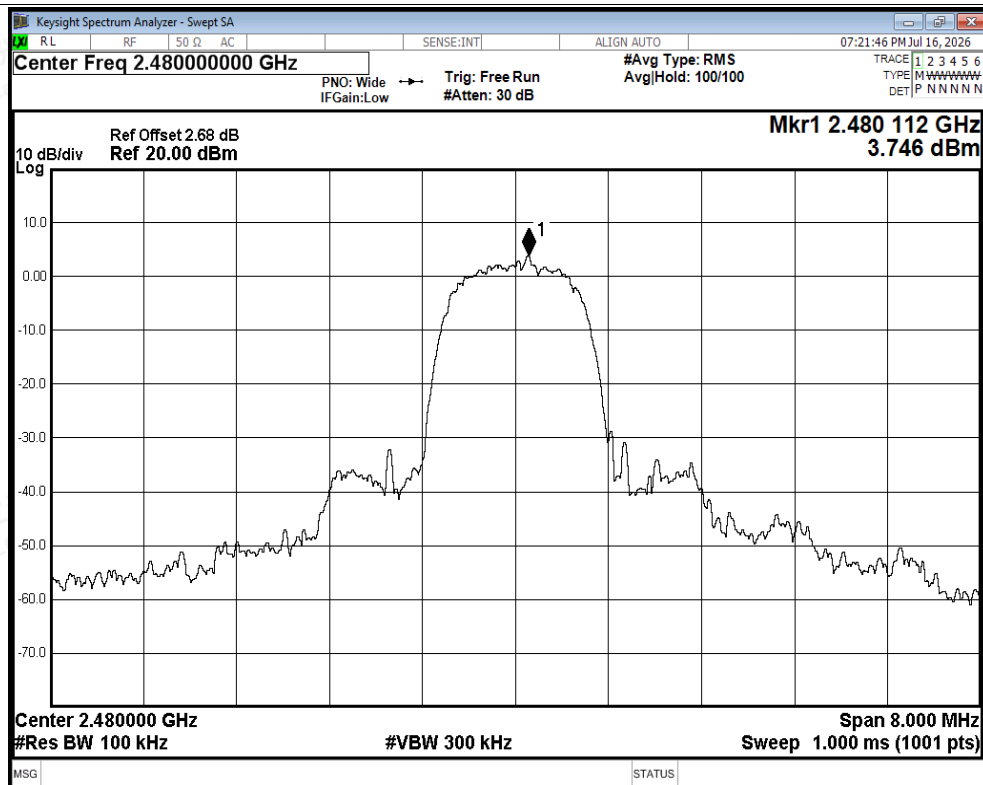


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

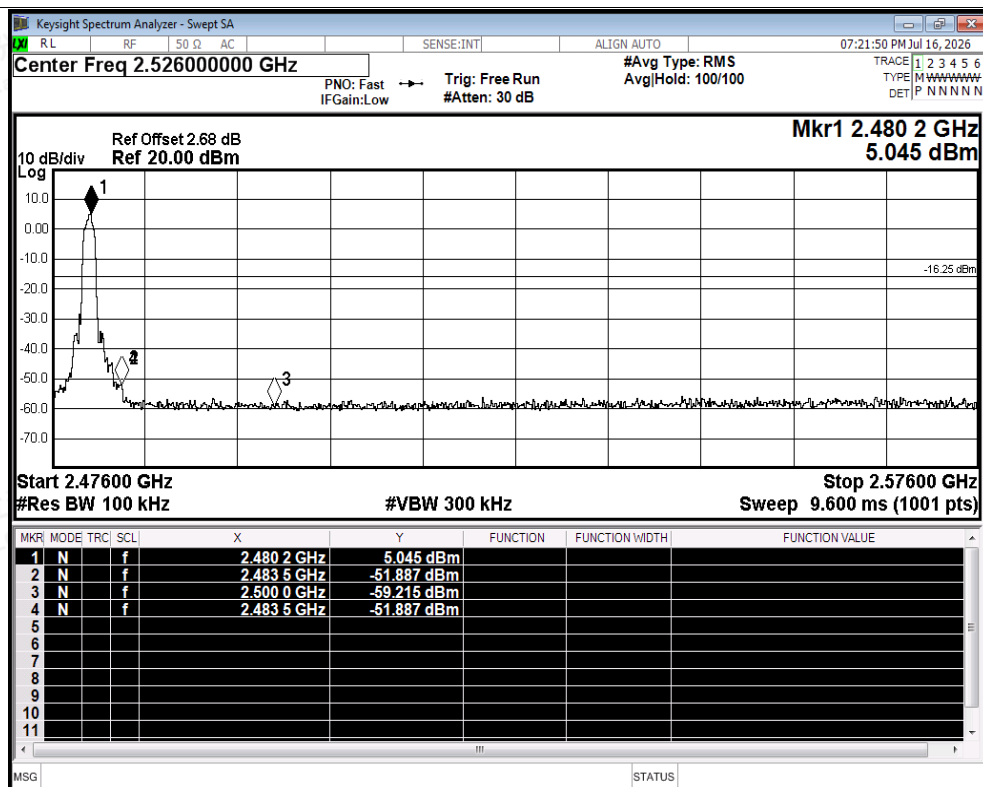
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

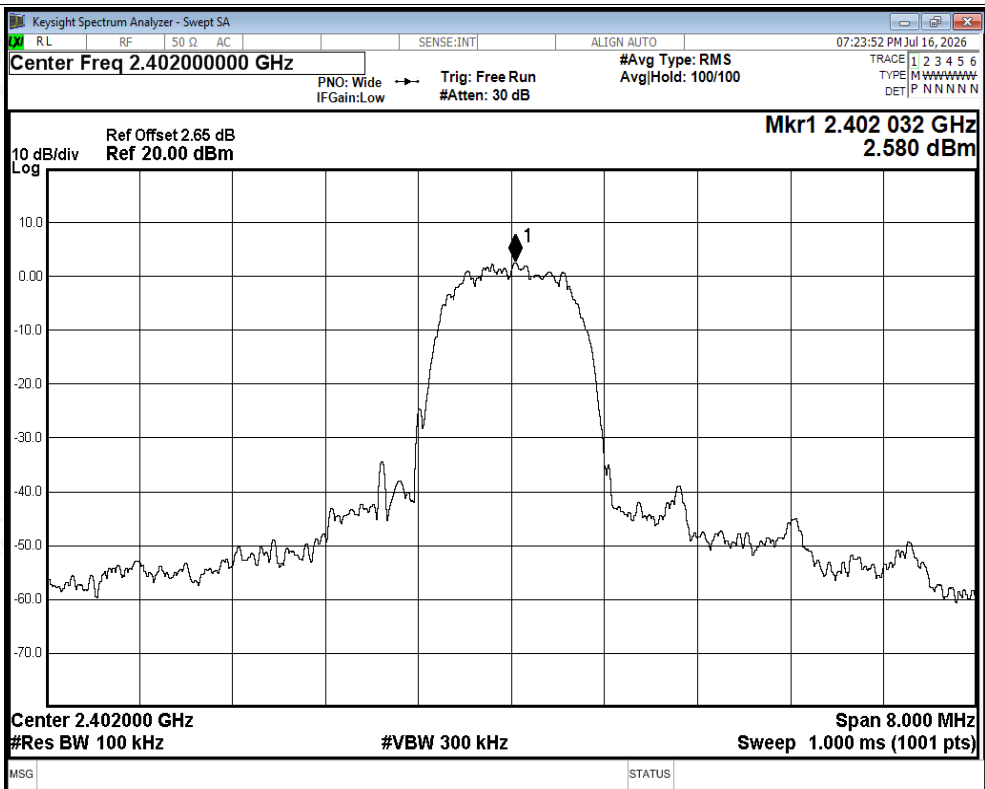


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

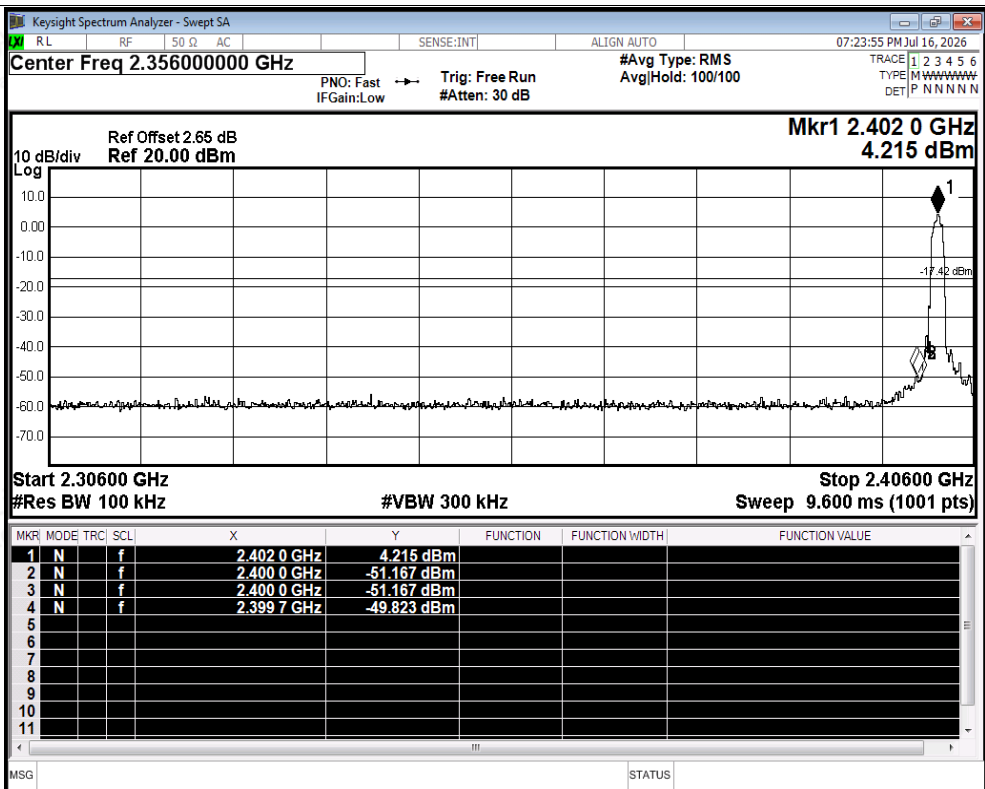
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

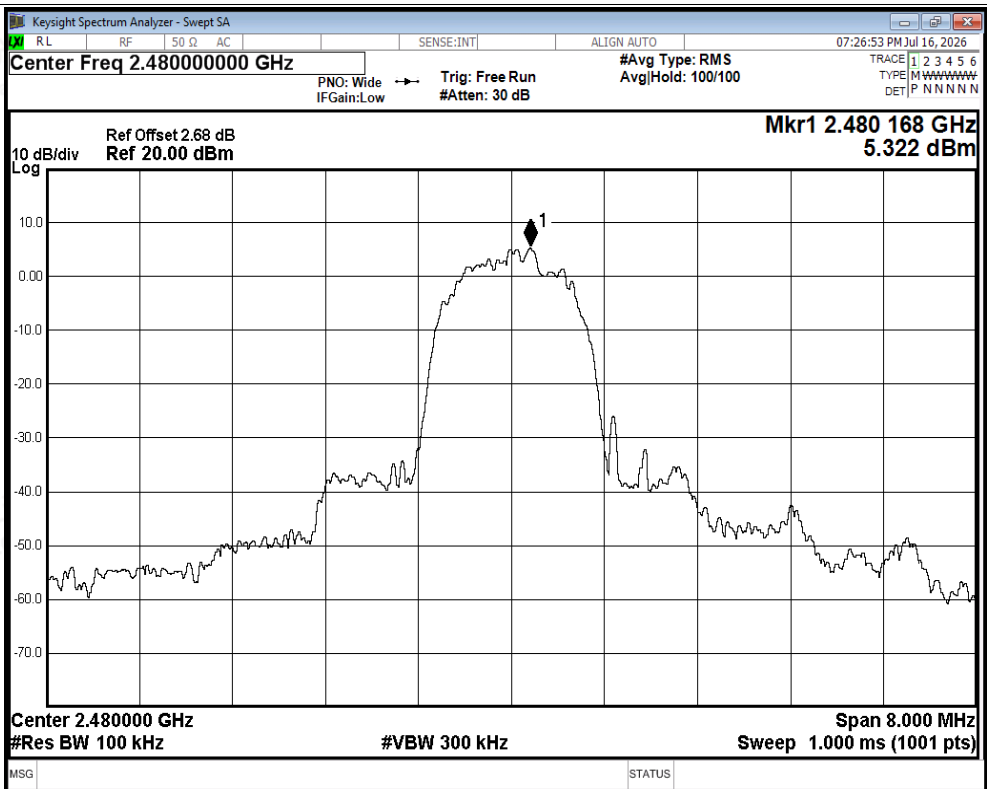


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

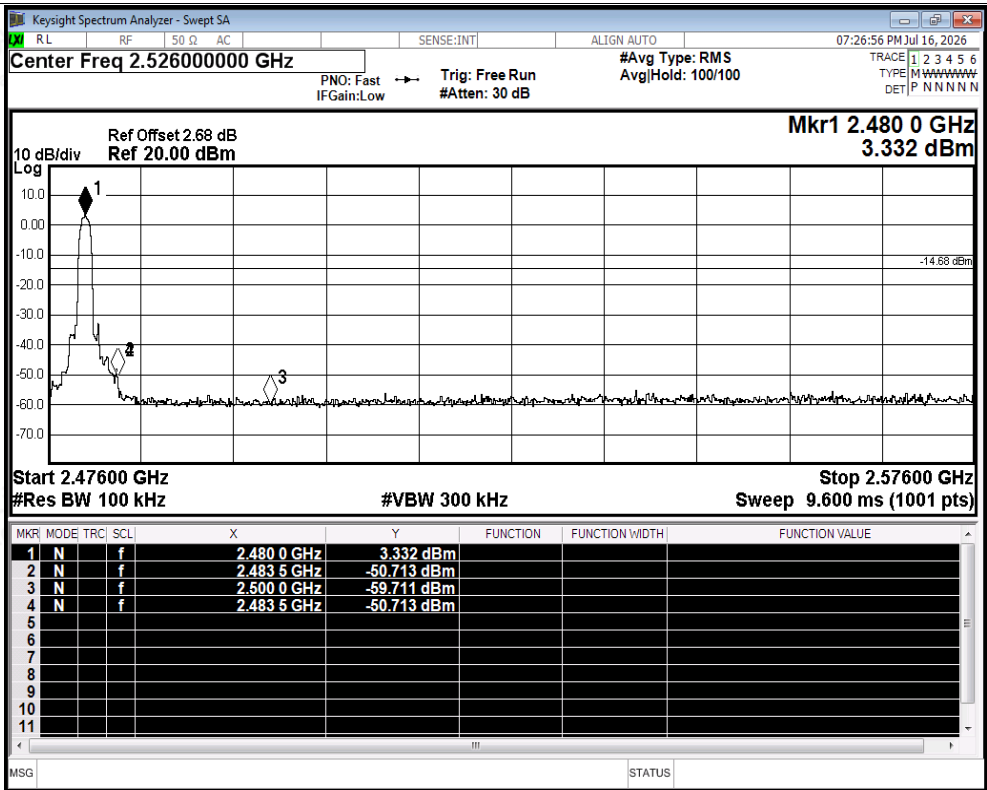
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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

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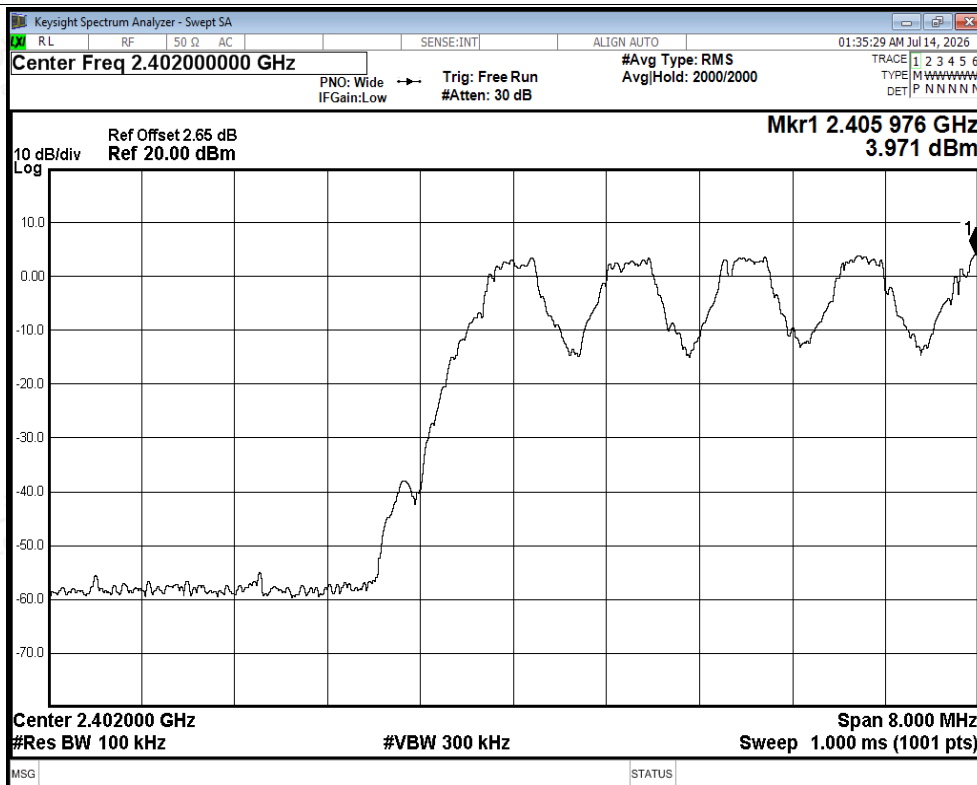
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.86	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.7	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.8	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.83	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.43	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-60.13	-20	Pass

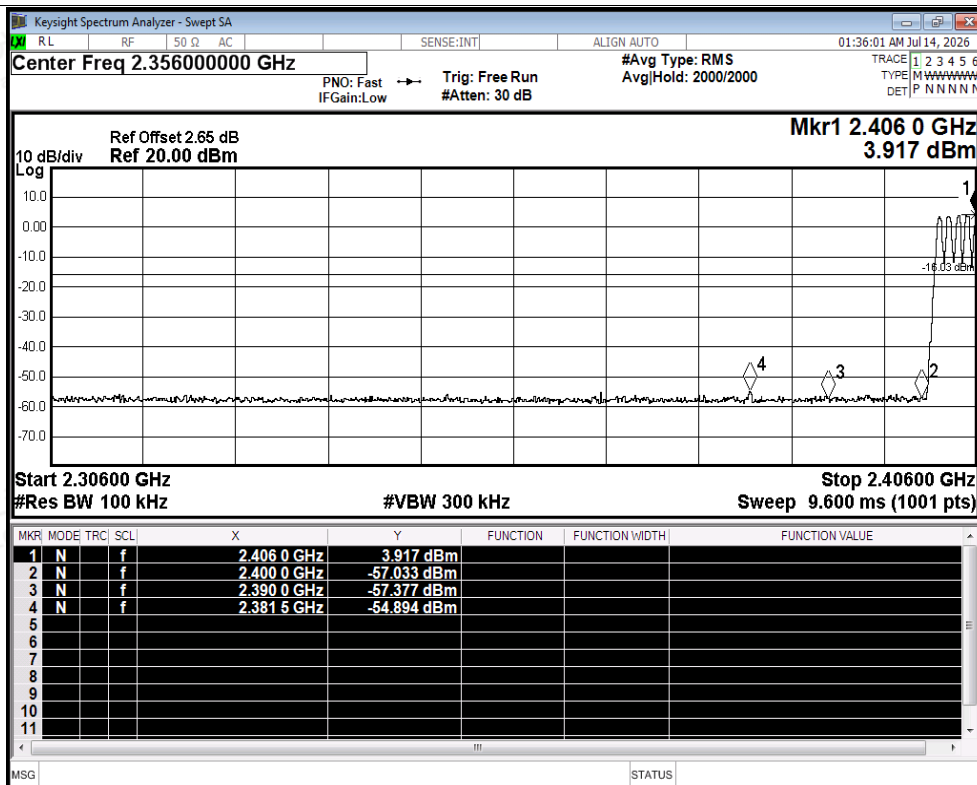
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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



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

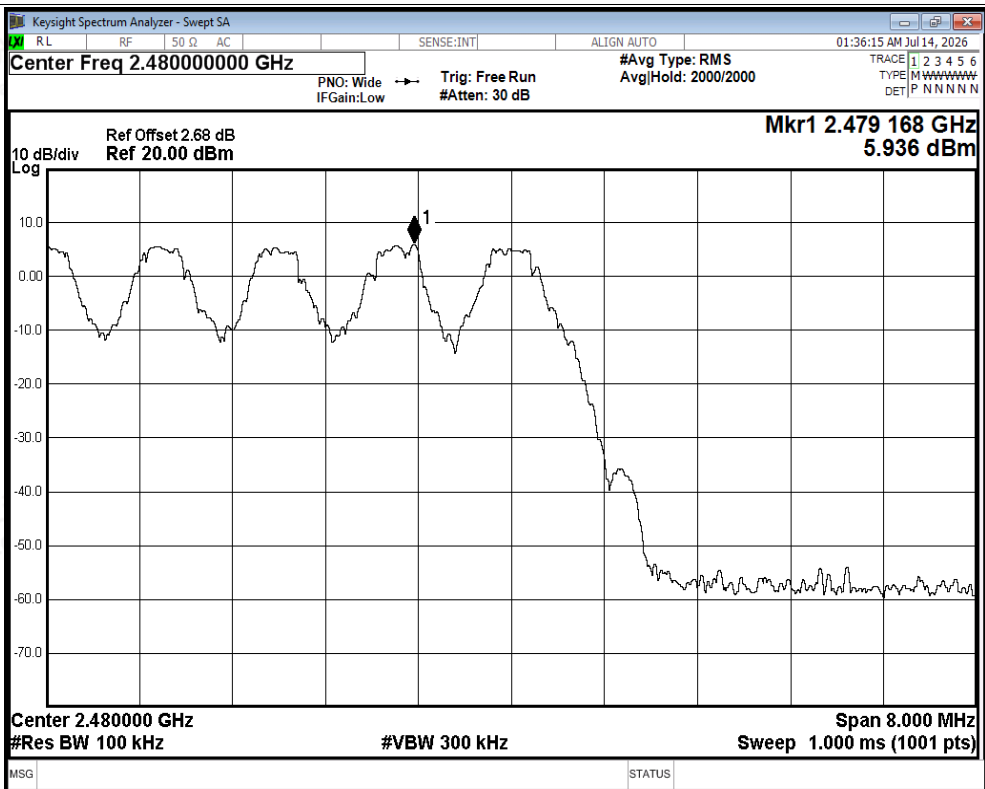


Band Edge (Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

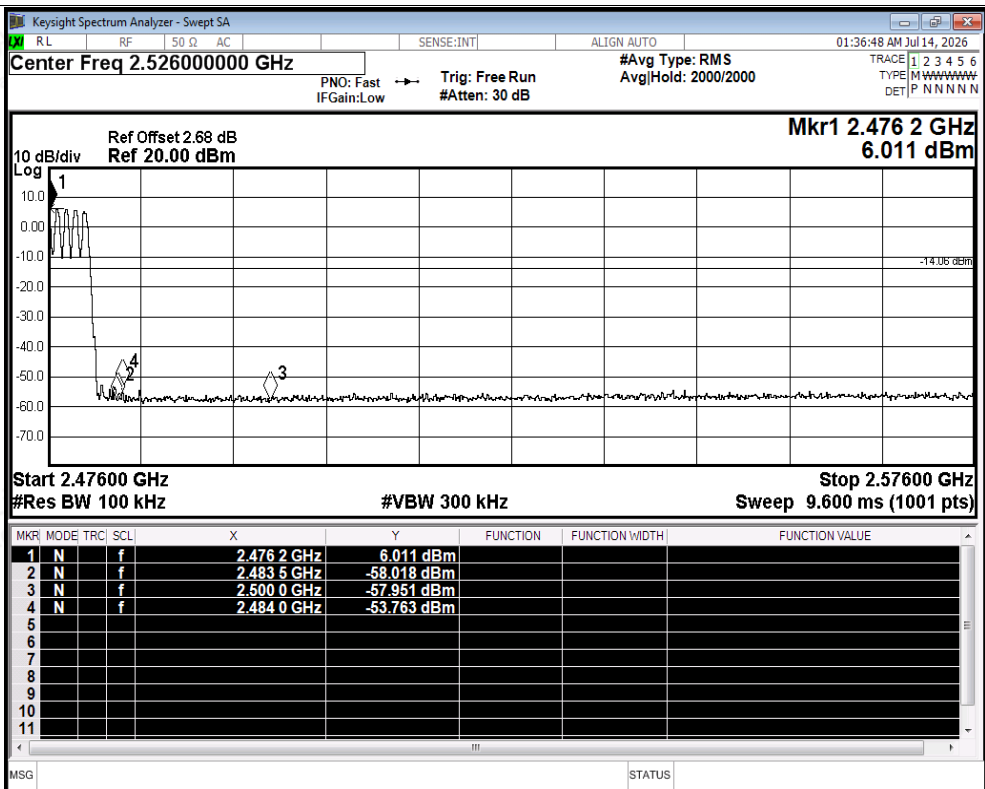
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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

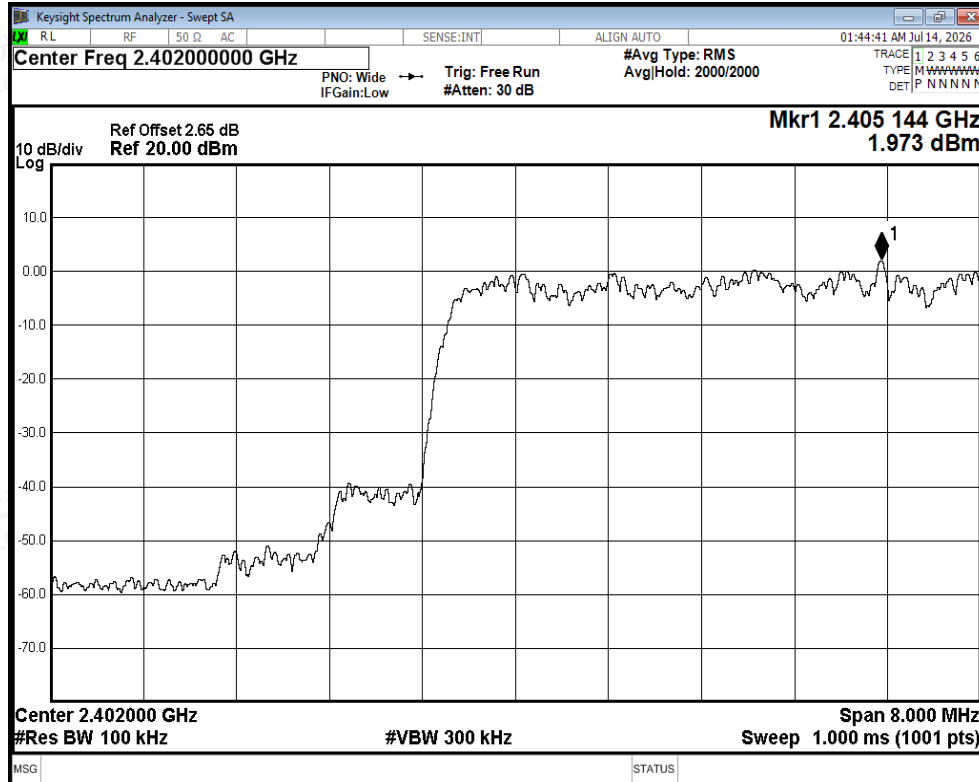


Band Edge (Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

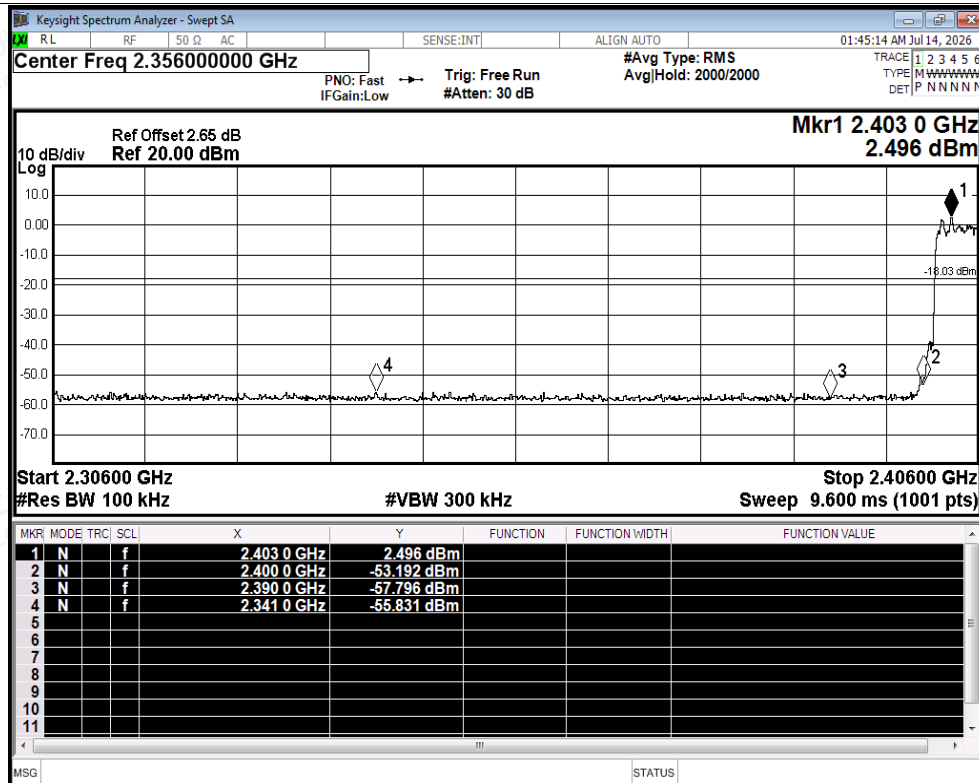
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

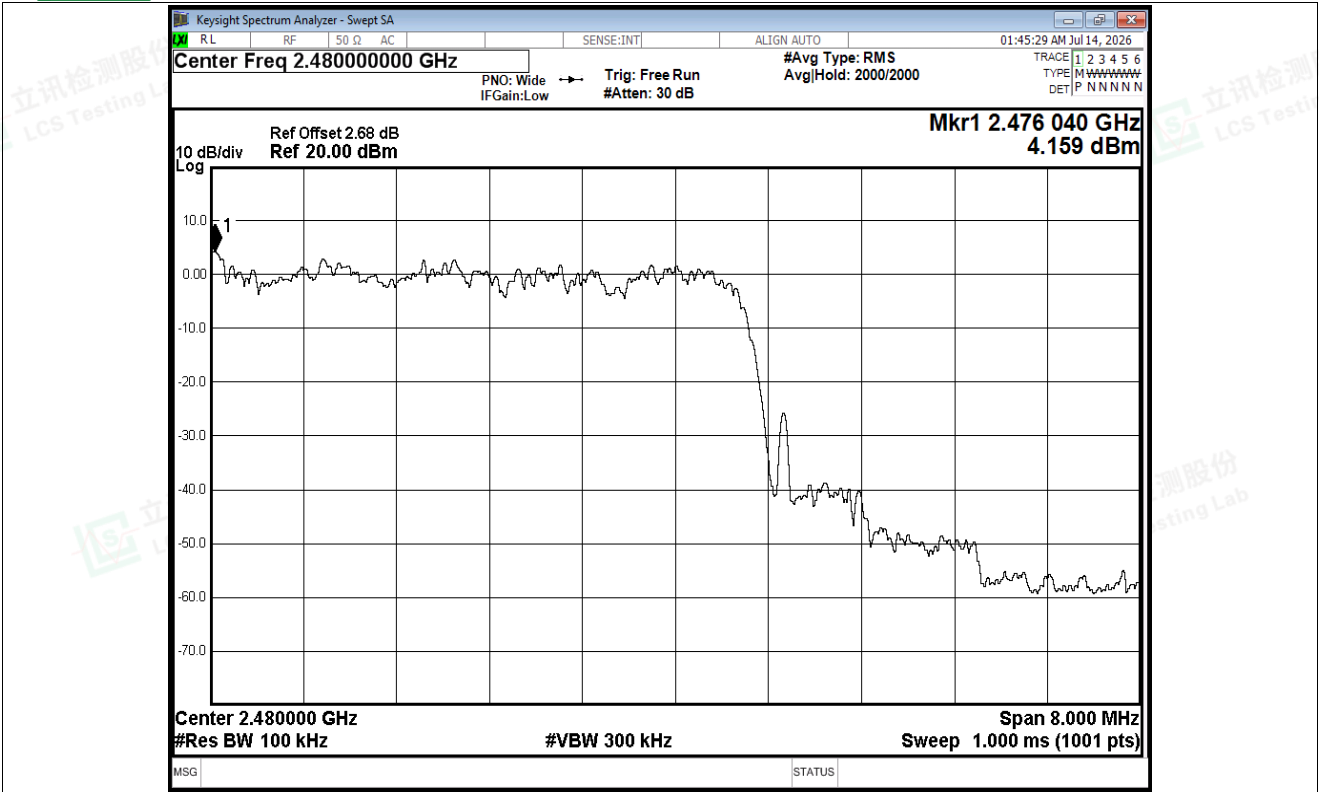


Band Edge (Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

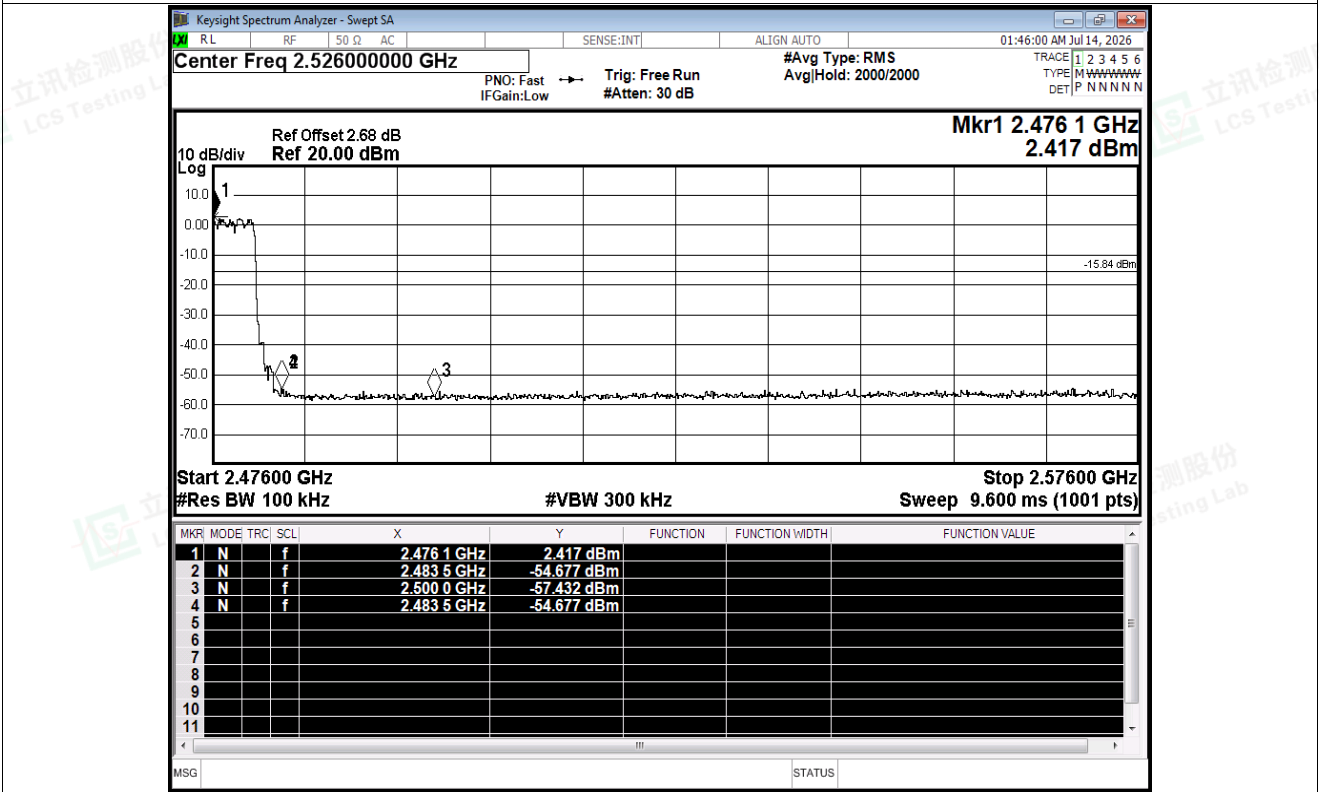
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

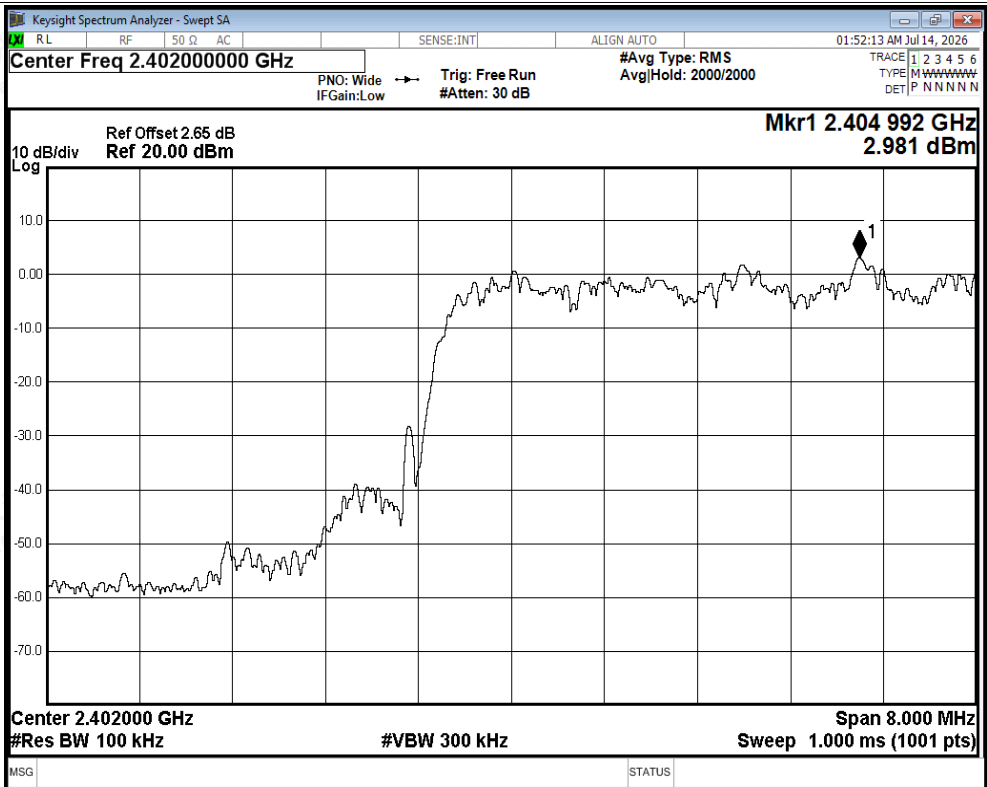


Band Edge (Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

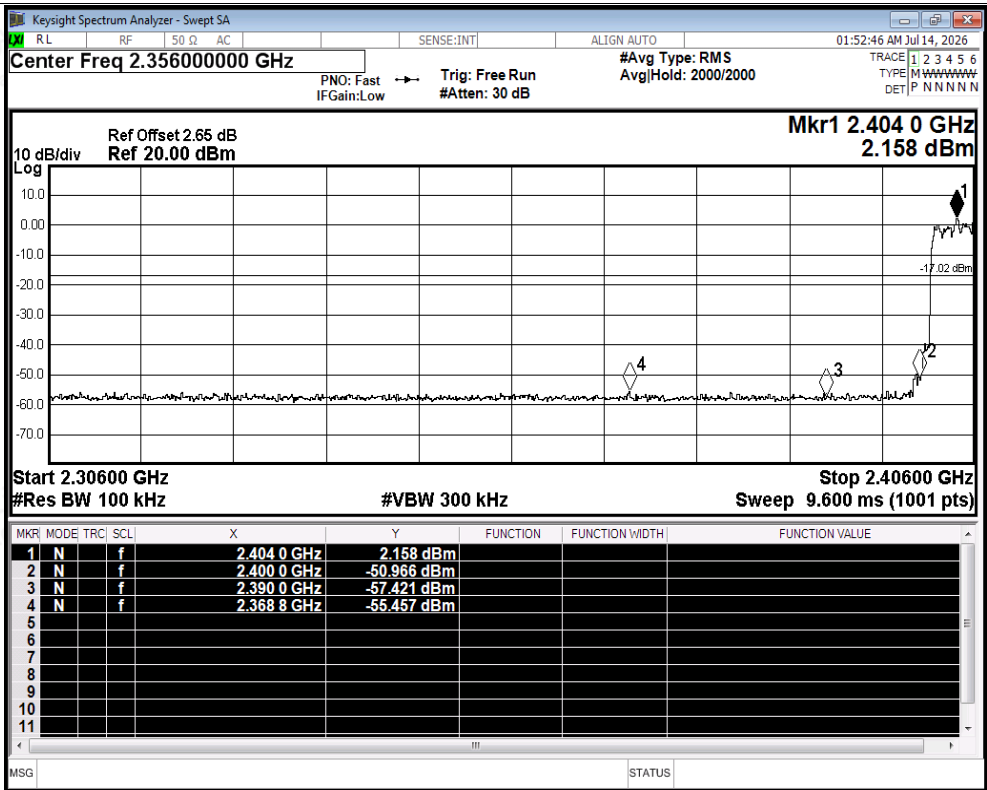
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

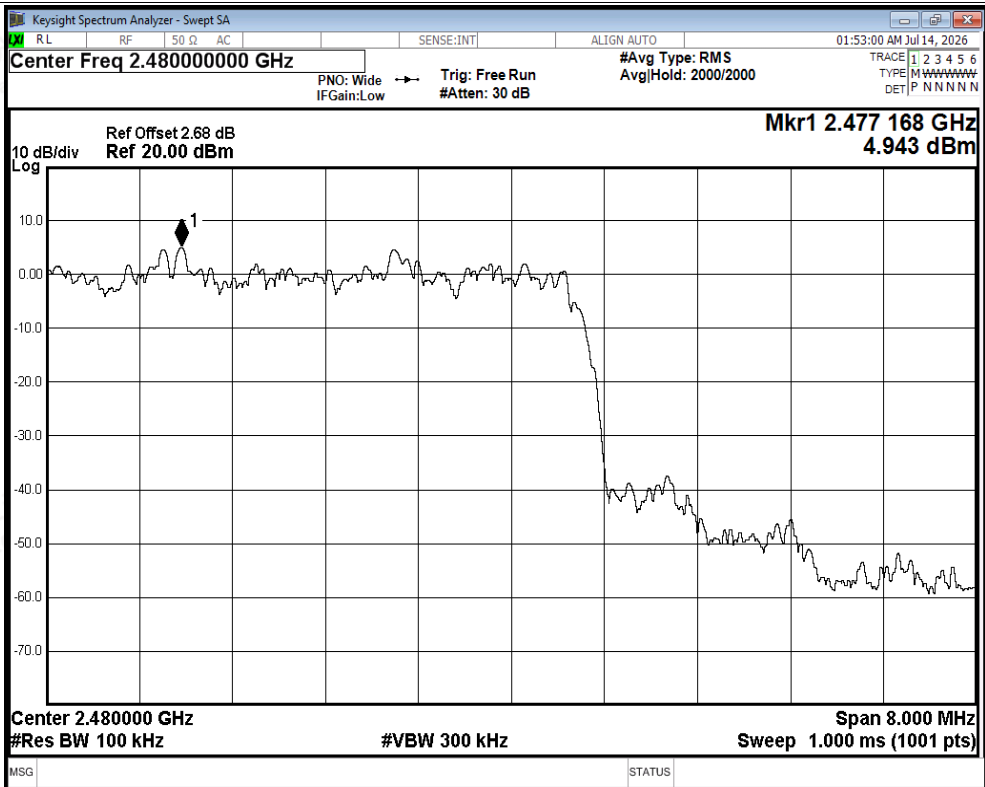


Band Edge (Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

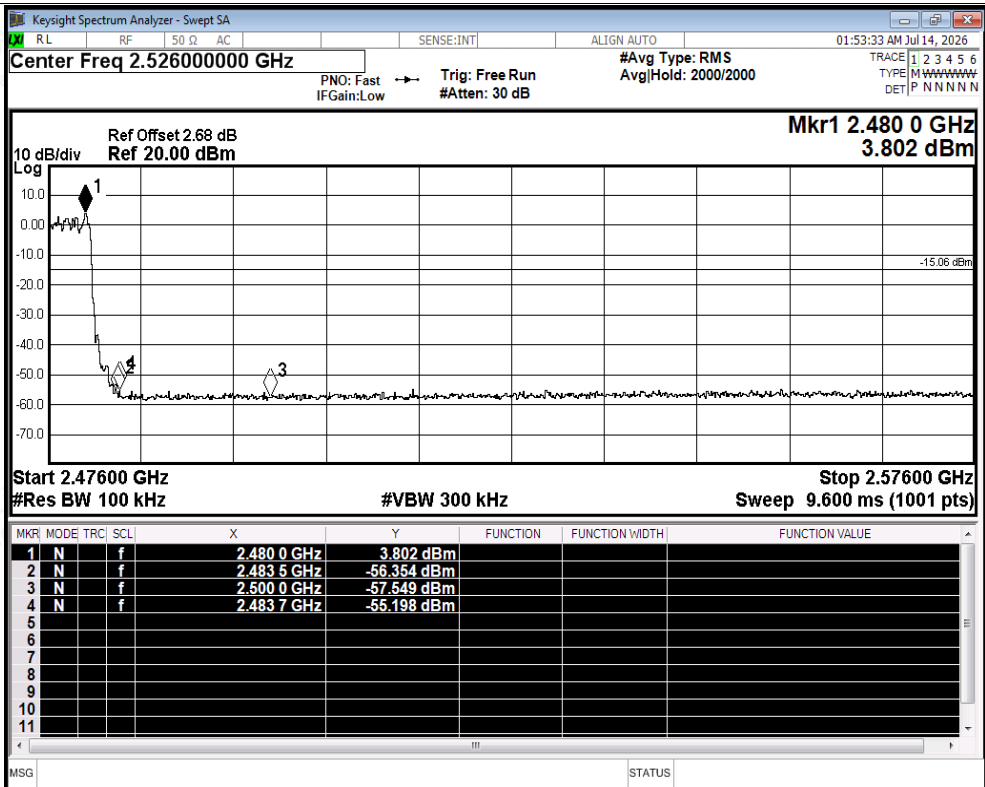
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Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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

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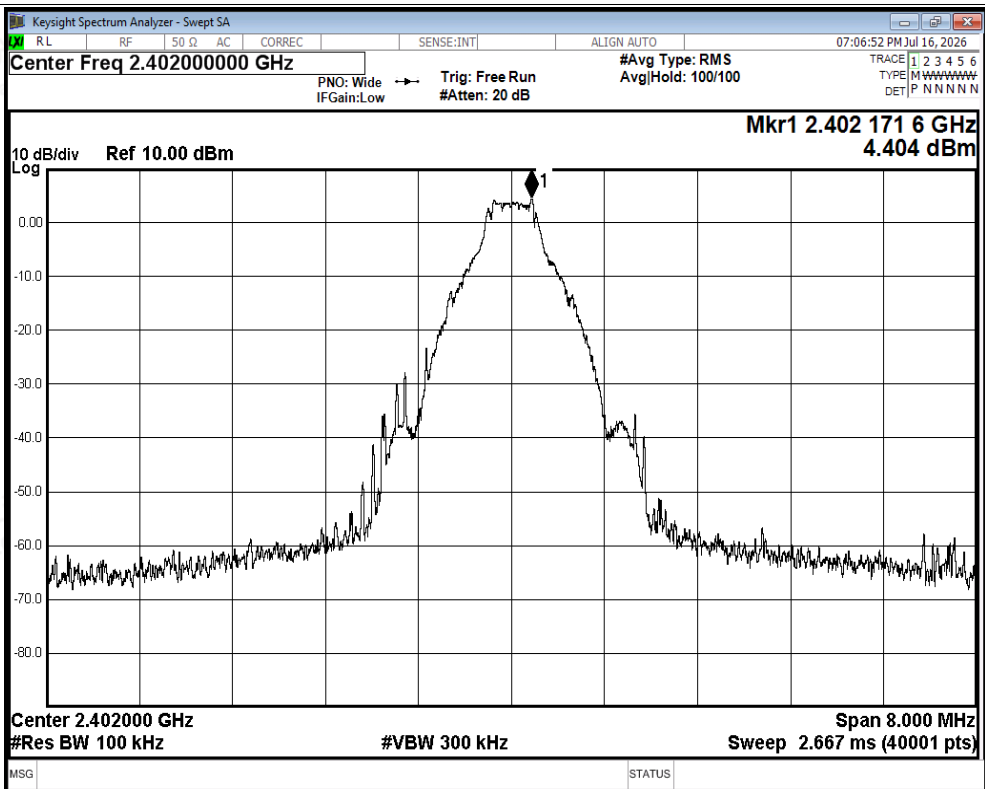
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-50.24	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.13	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.38	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.59	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.2	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.92	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.41	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.29	-20	Pass

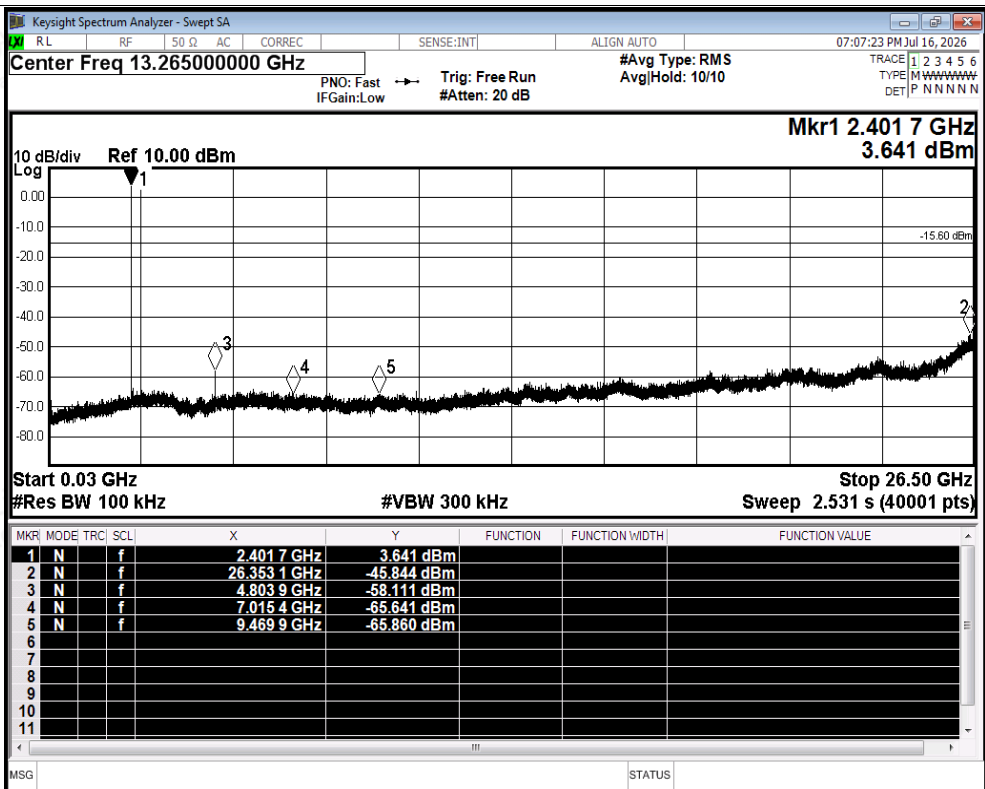
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

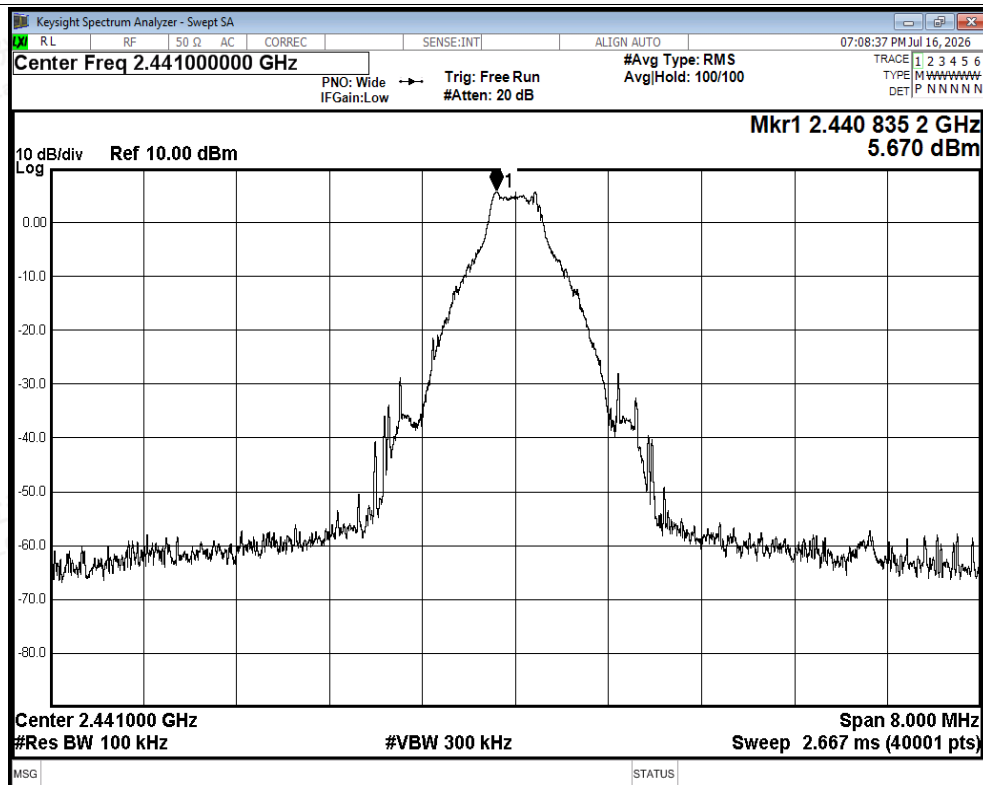


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

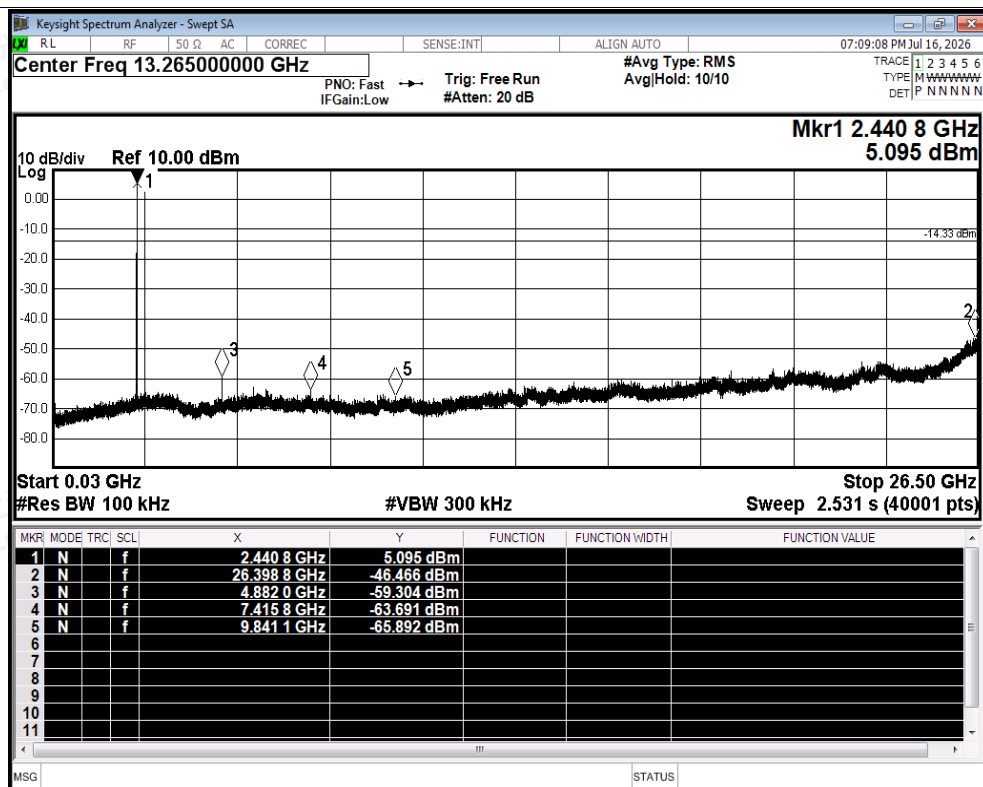
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

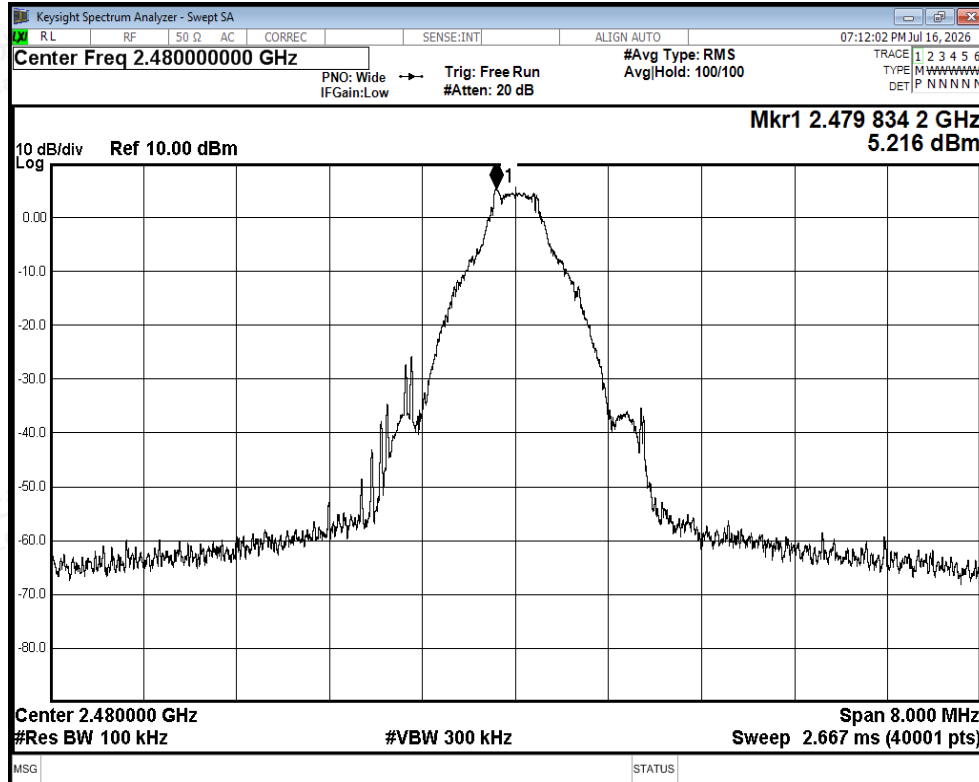


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

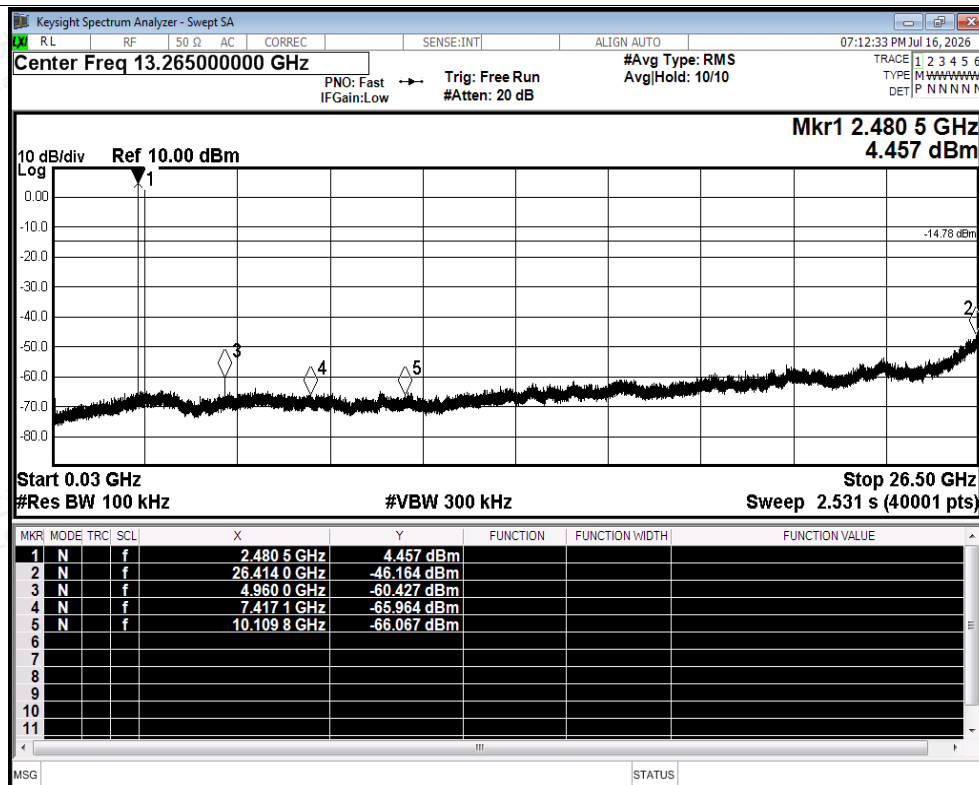
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

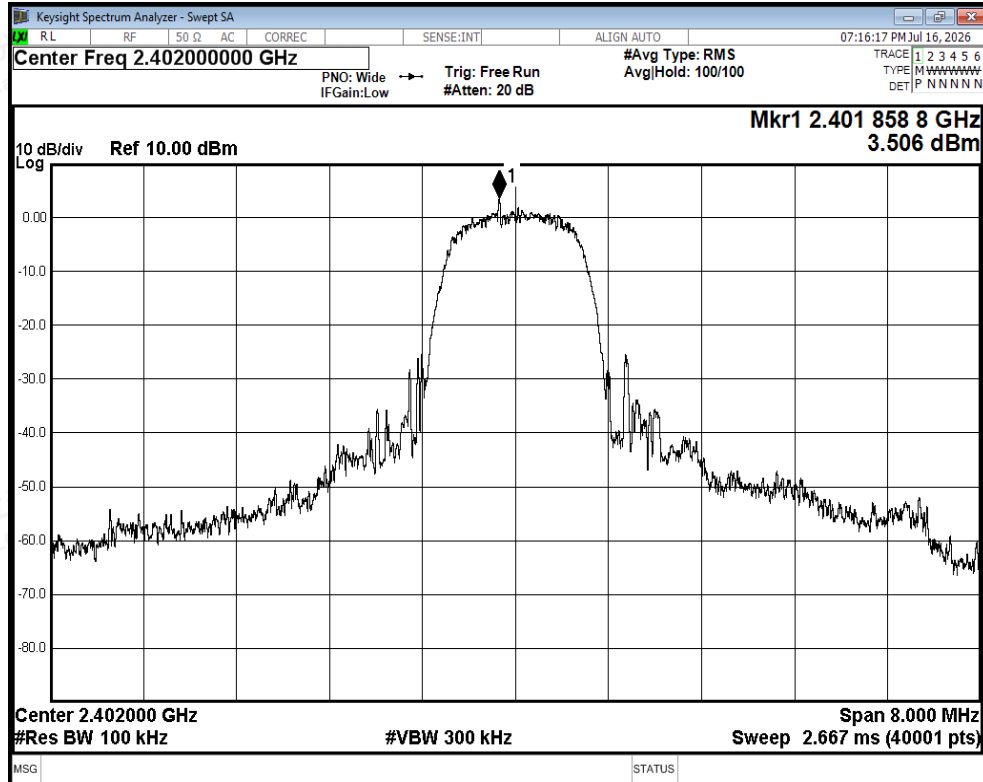


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

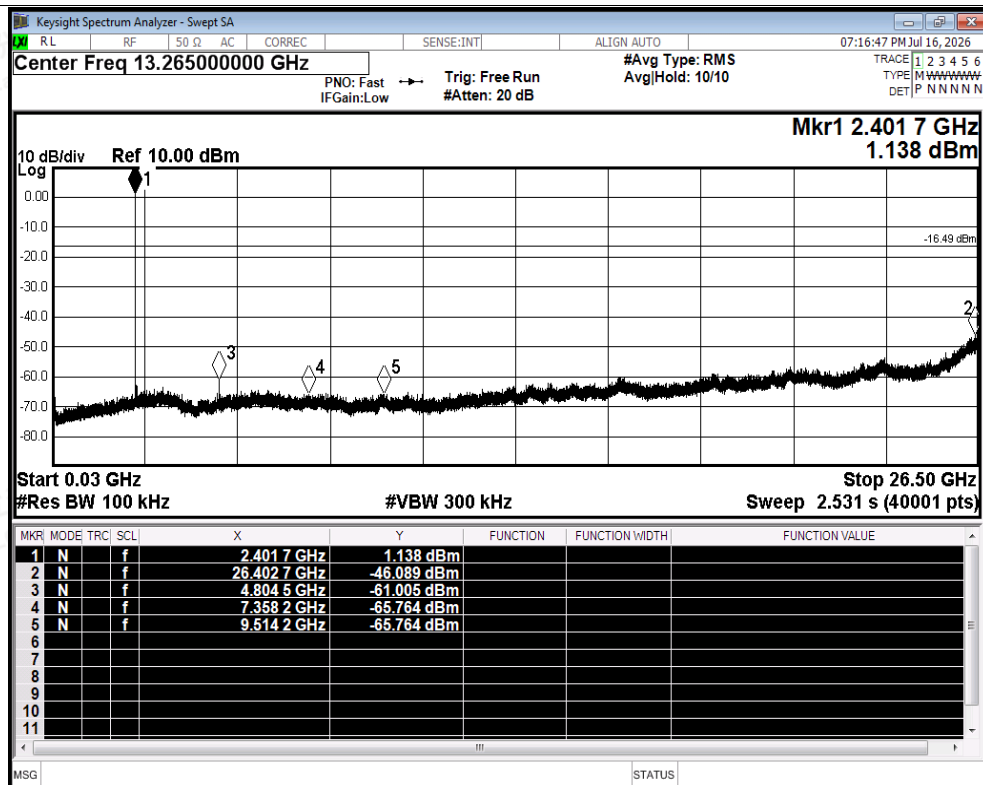
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

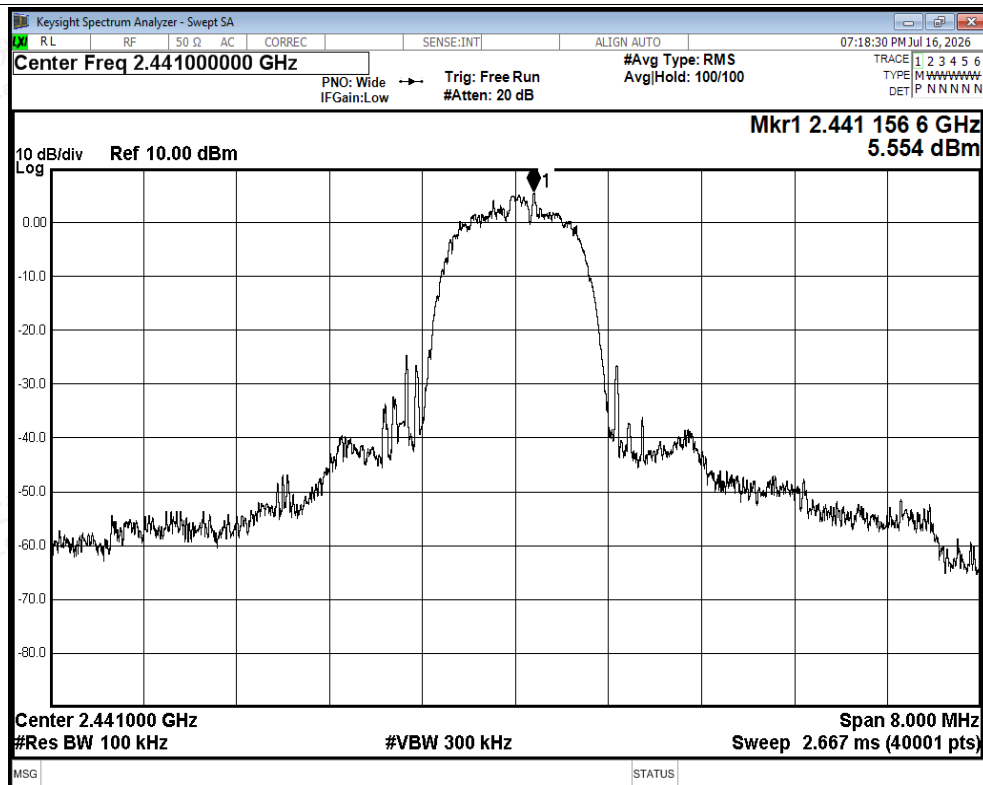


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

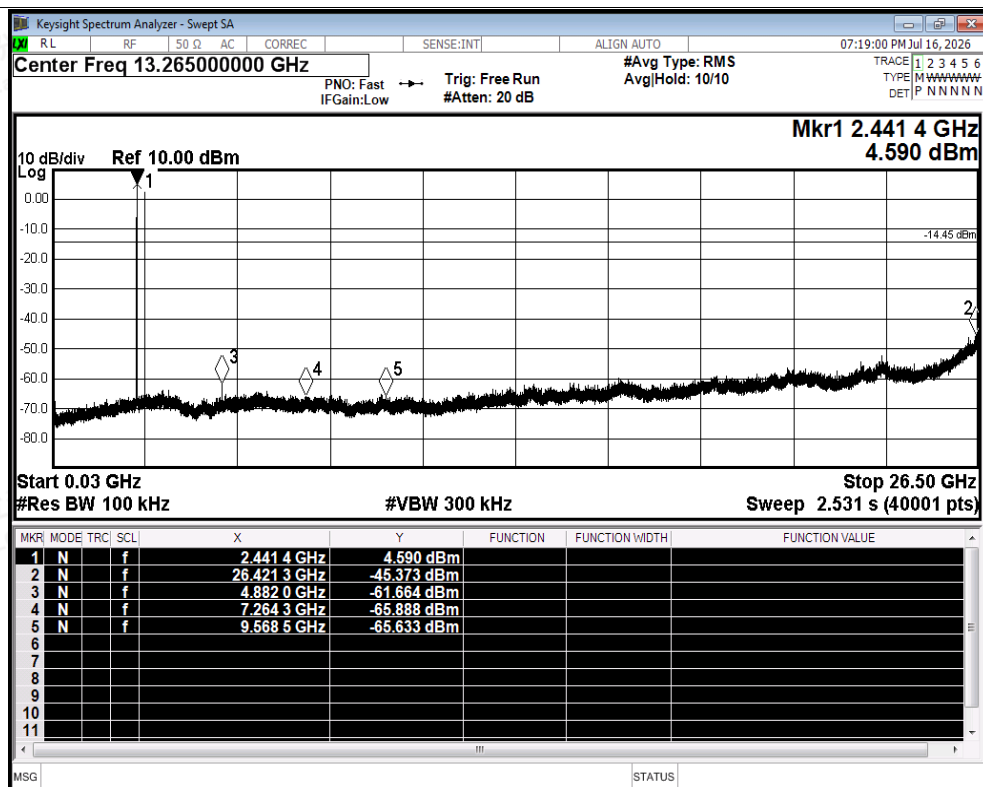
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

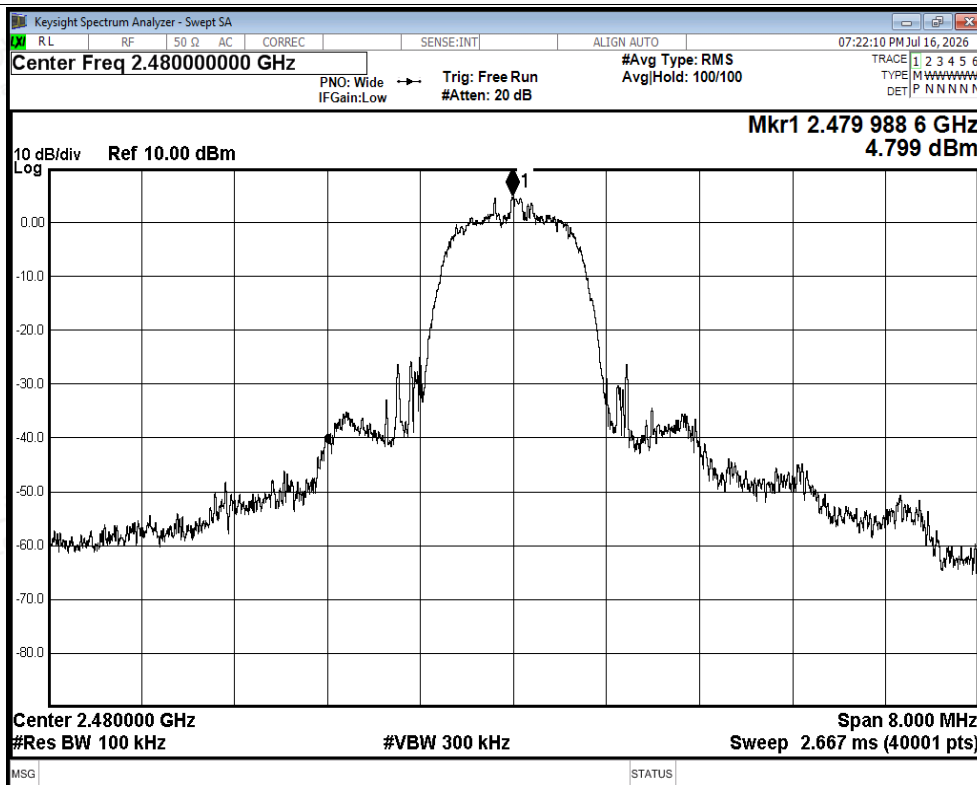


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

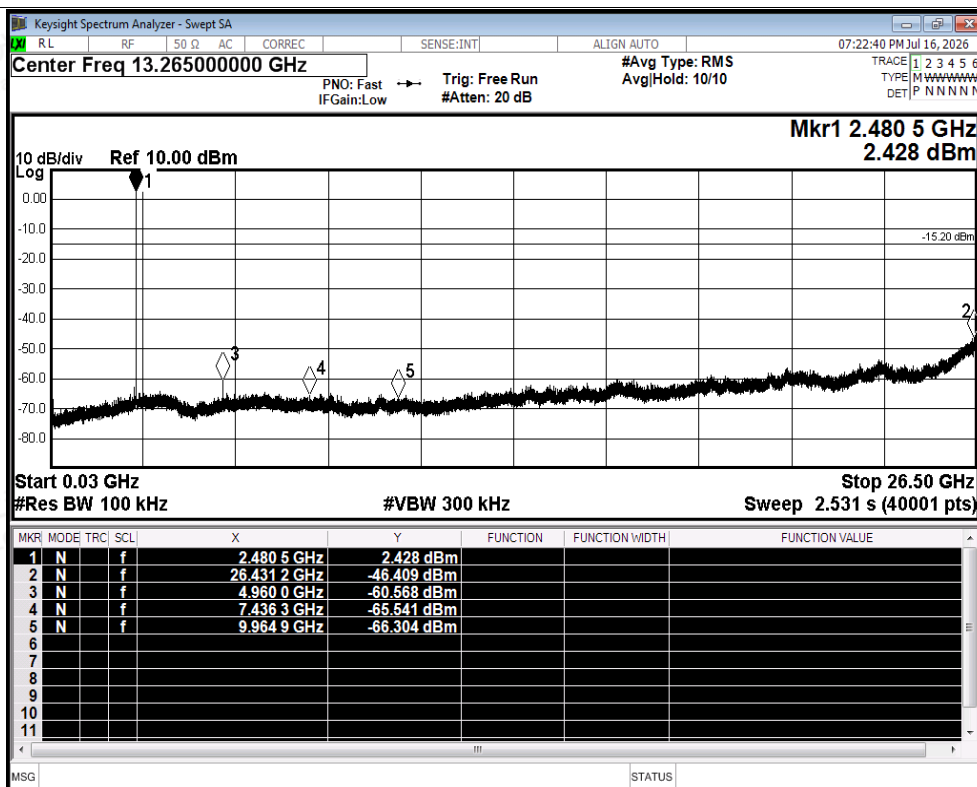
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

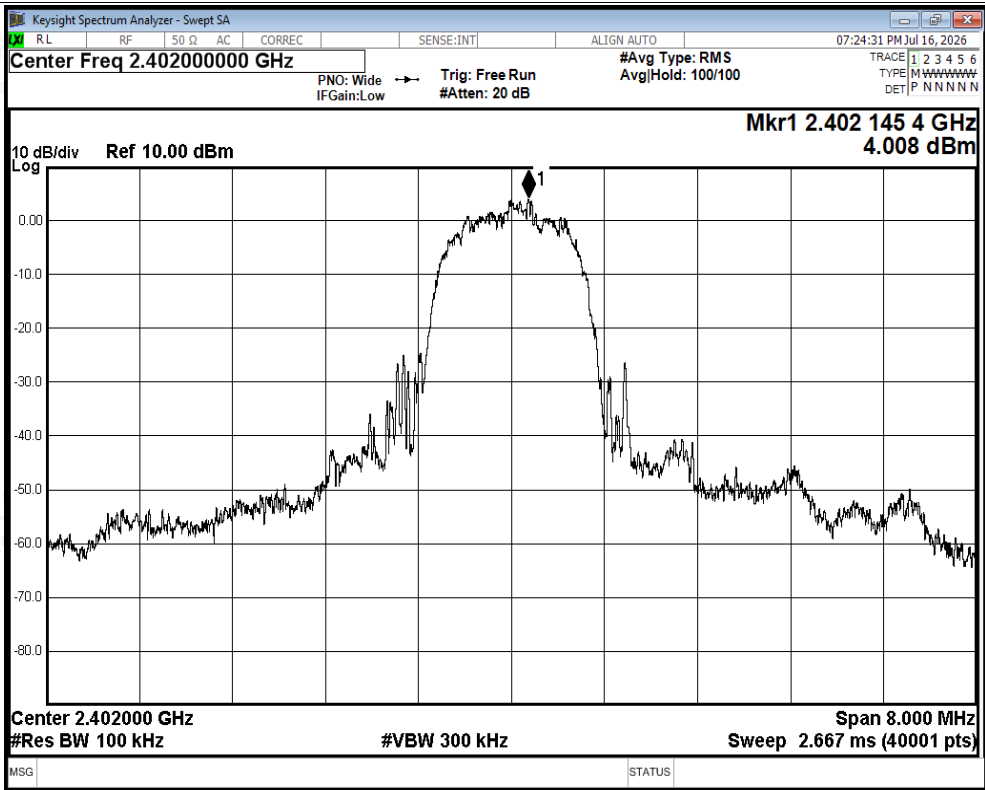


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

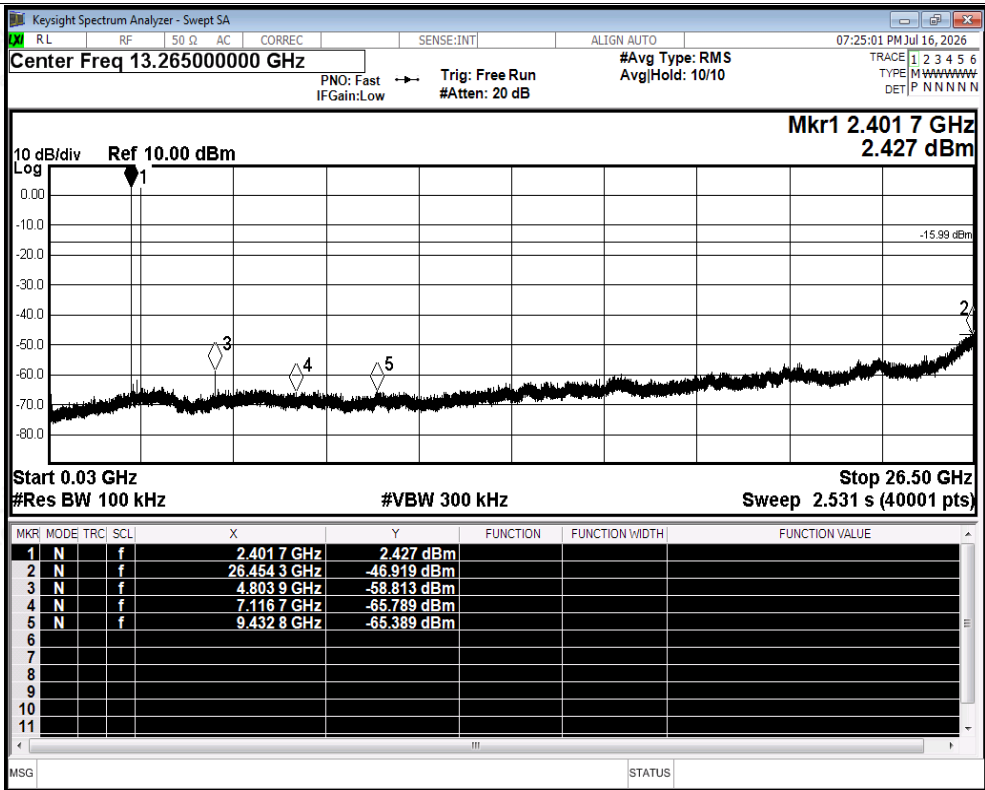
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

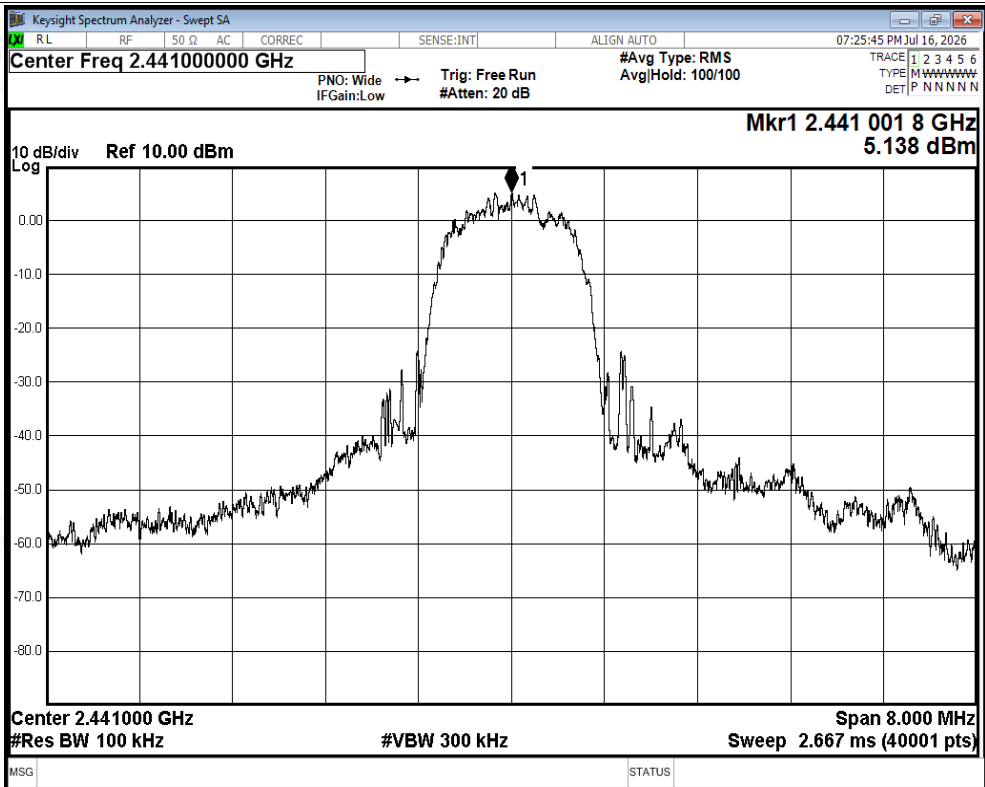


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

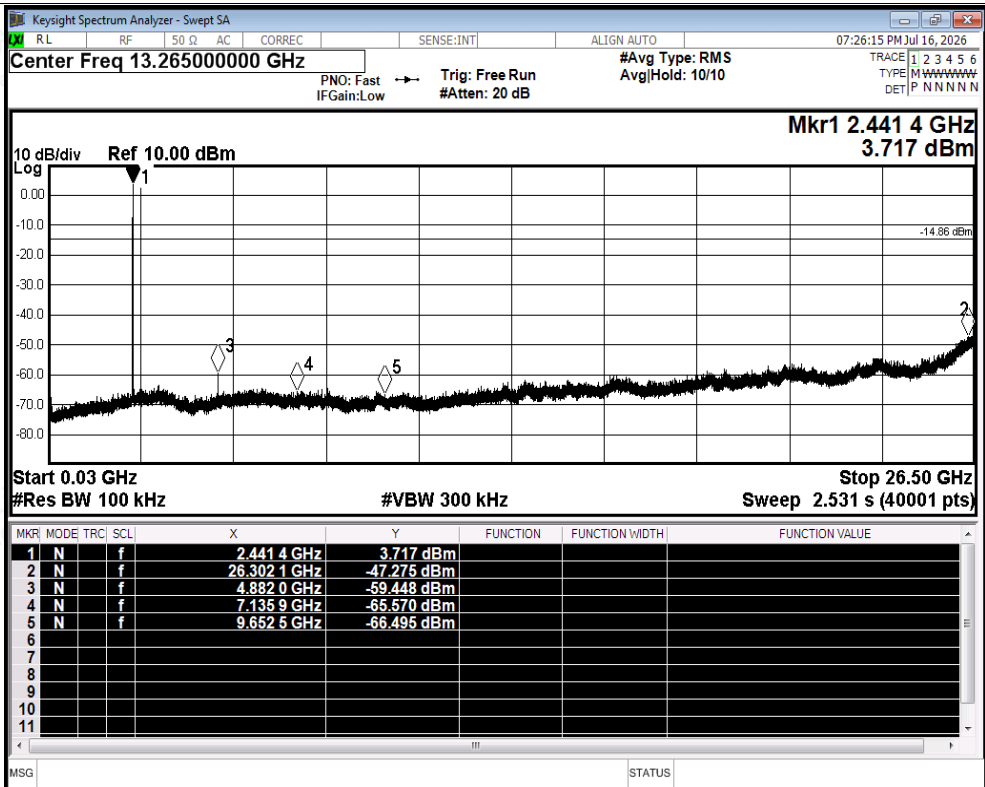
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

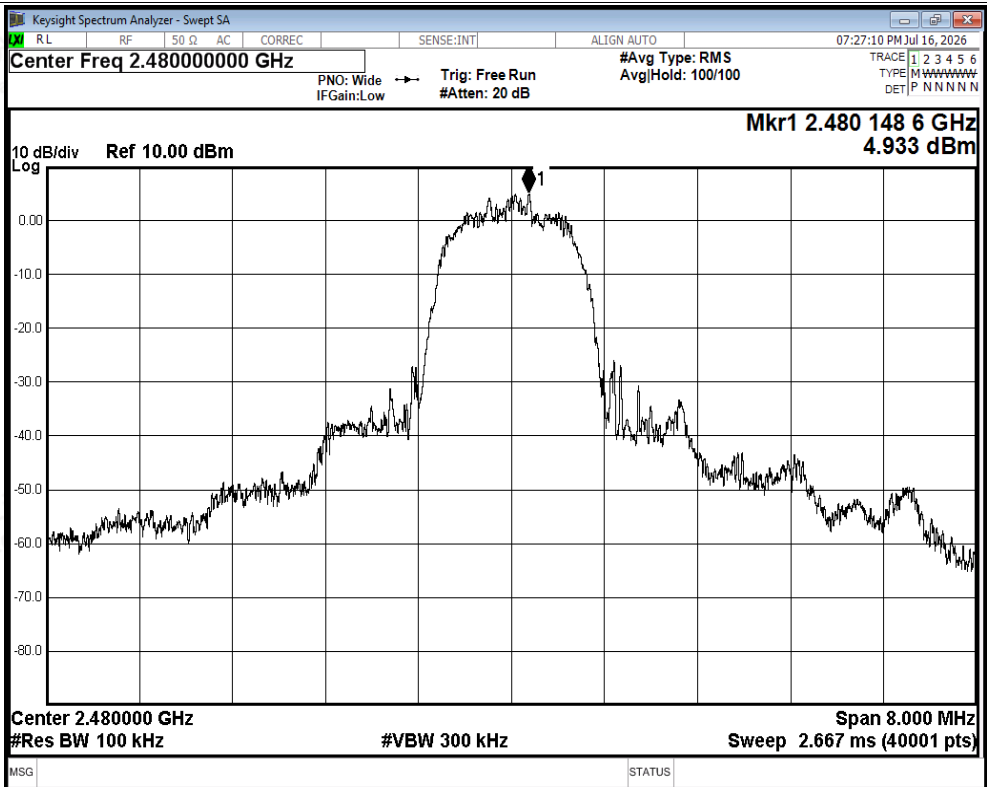


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

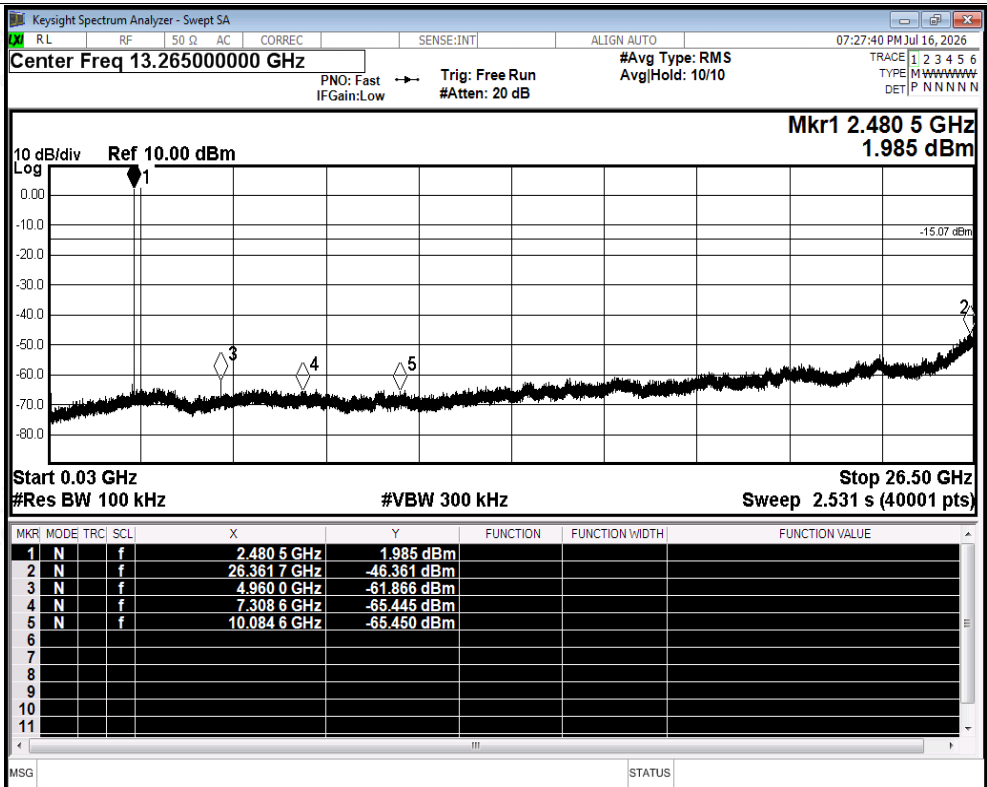
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

Shenzhen LCS Compliance Testing Laboratory Ltd.

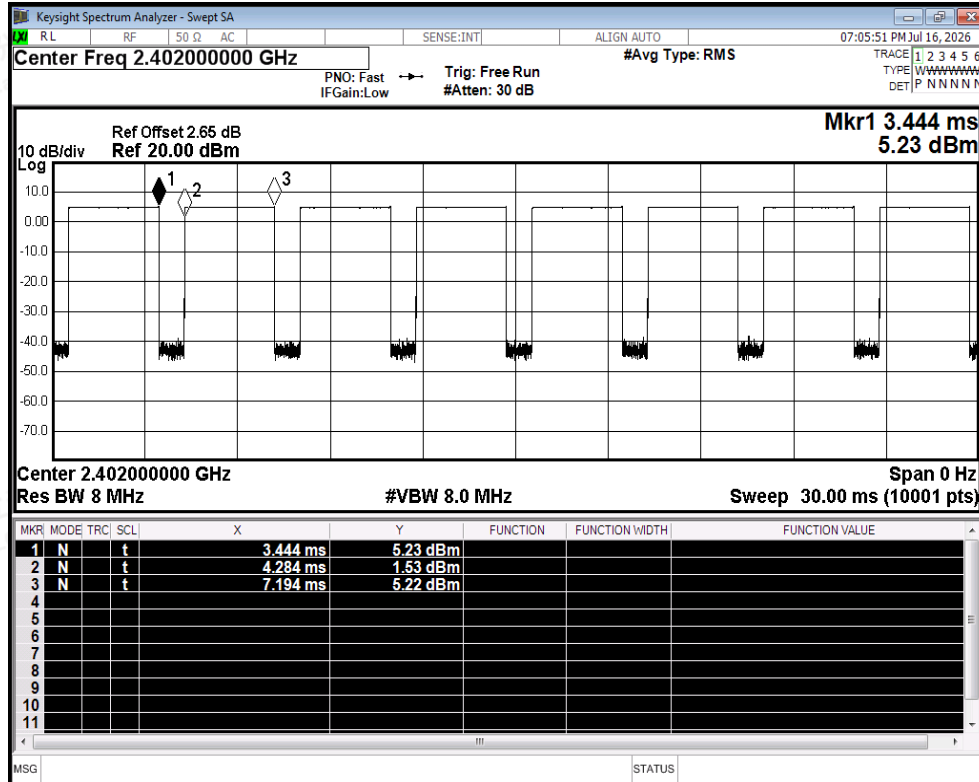
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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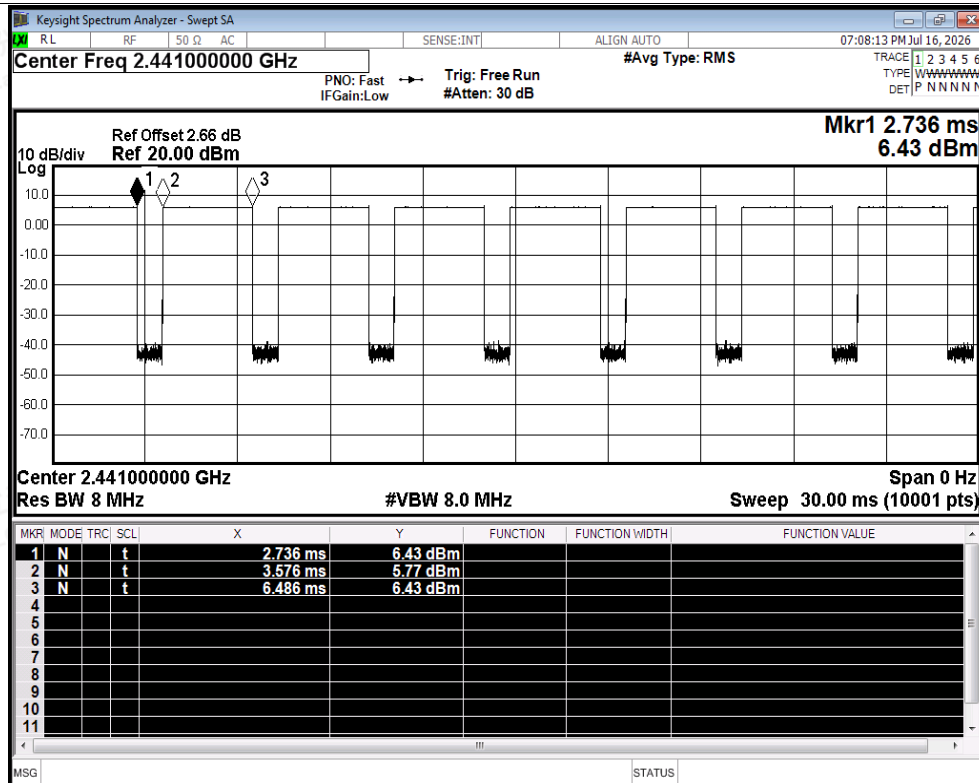


A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.36	1.11	0.34
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



Duty Cycle NVNT 1-DH5 2402MHz Ant1

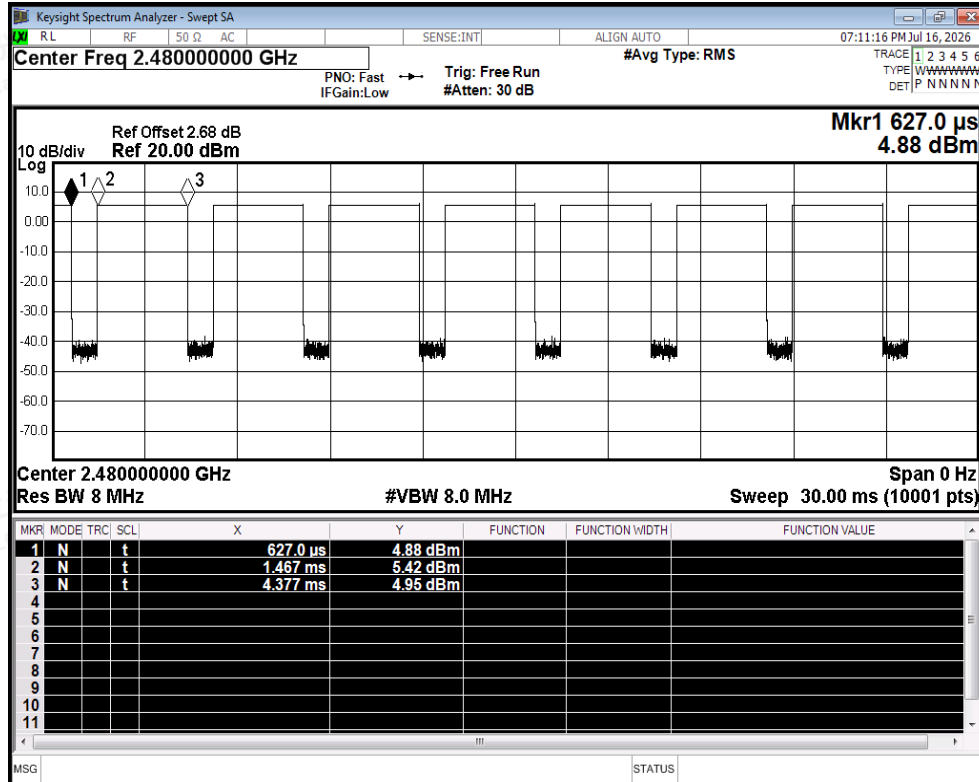


Duty Cycle NVNT 1-DH5 2441MHz Ant1

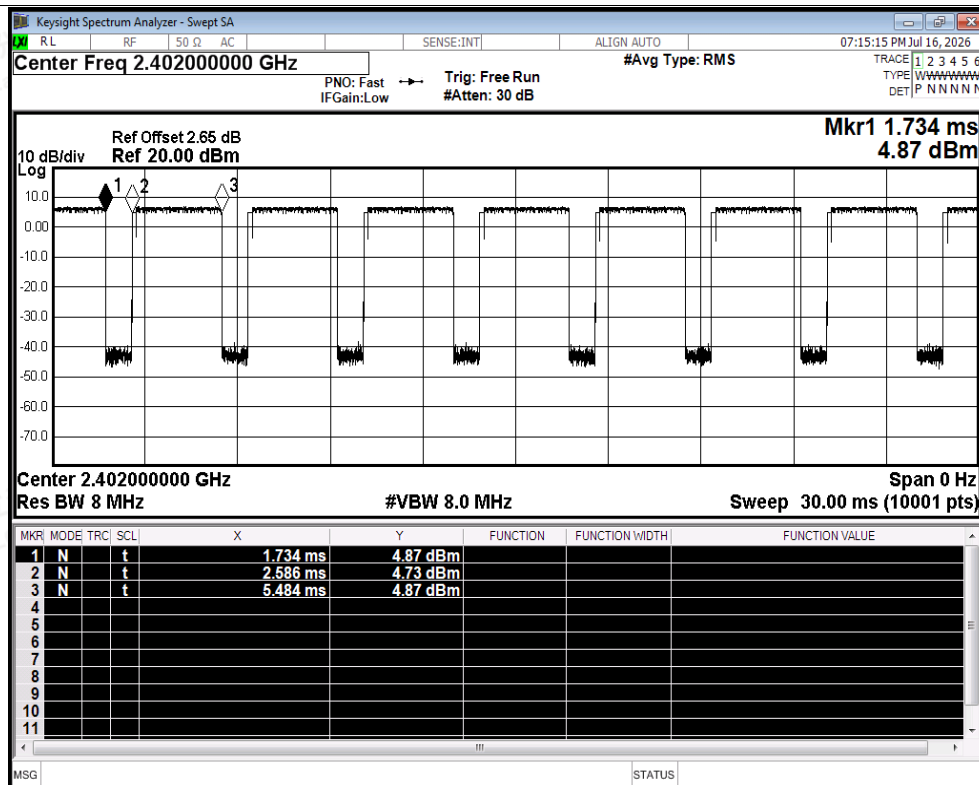
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Duty Cycle NVNT 1-DH5 2480MHz Ant1

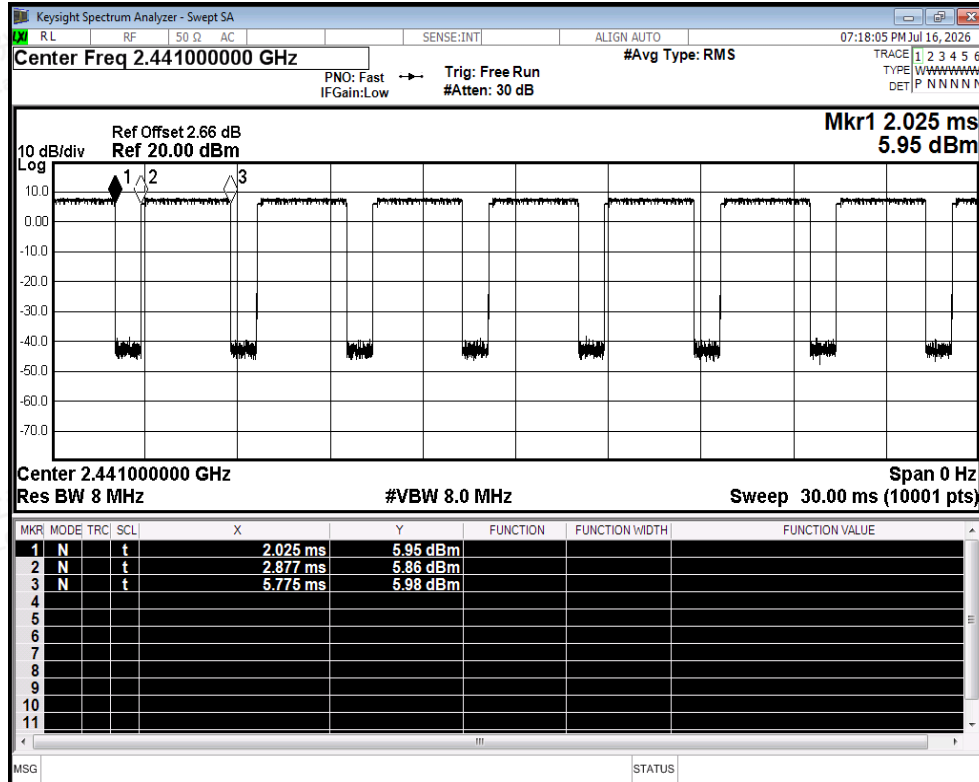


Duty Cycle NVNT 2-DH5 2402MHz Ant1

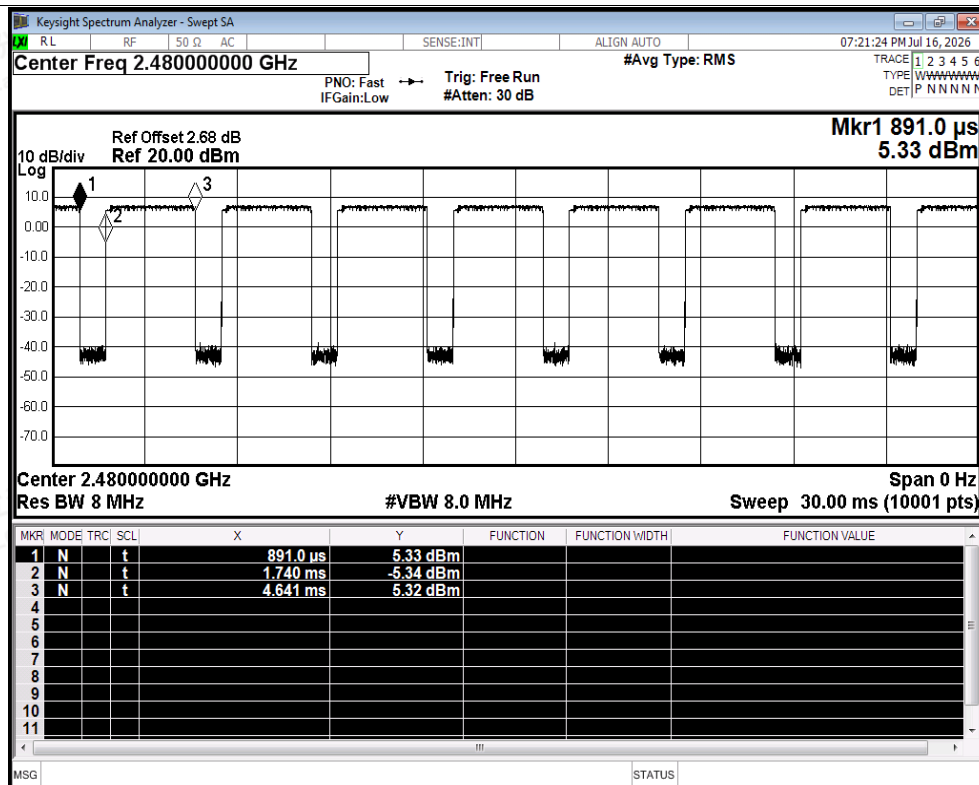
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Duty Cycle NVNT 2-DH5 2441MHz Ant1

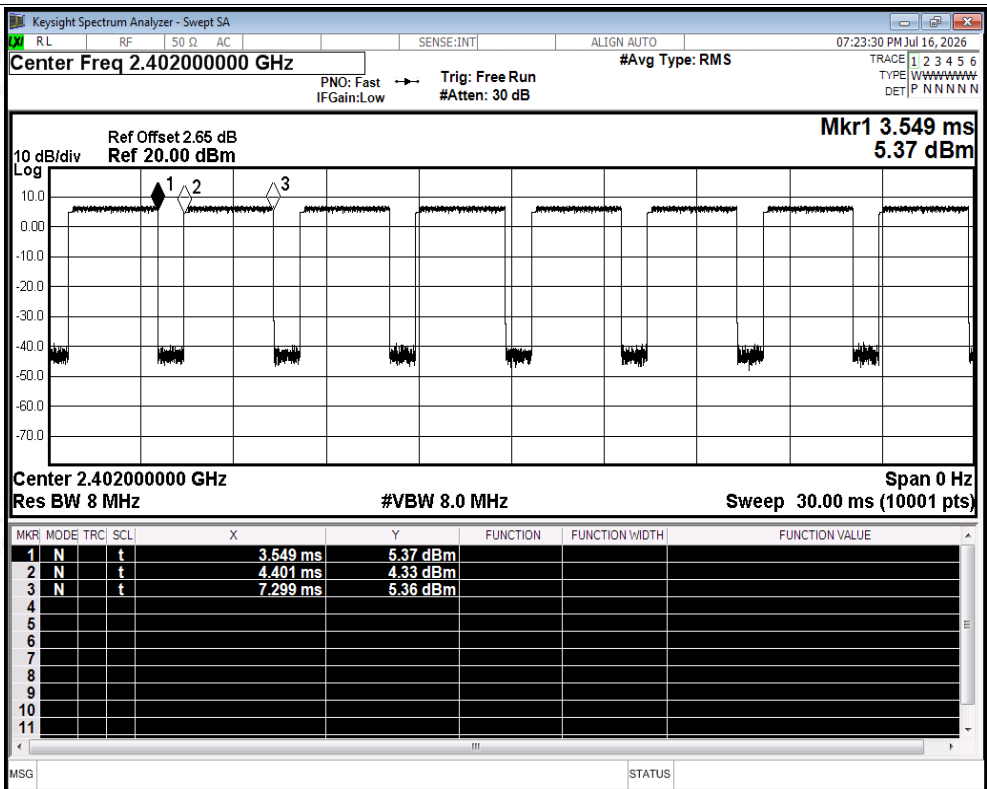


Duty Cycle NVNT 2-DH5 2480MHz Ant1

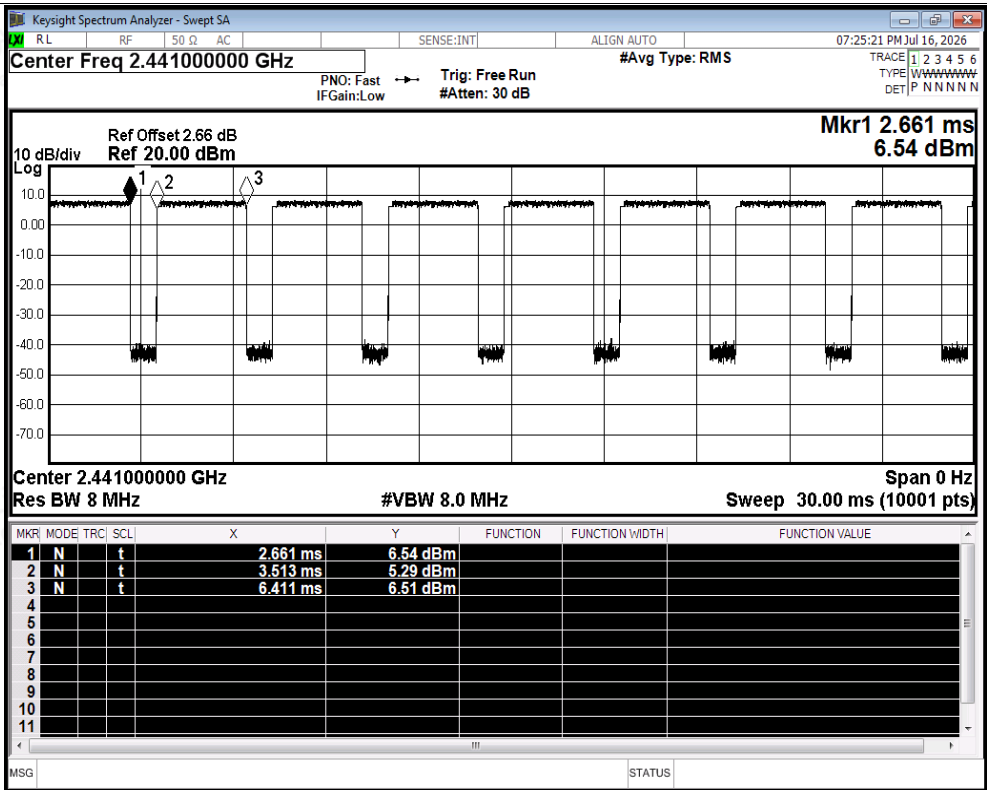
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Duty Cycle NVNT 3-DH5 2402MHz Ant1

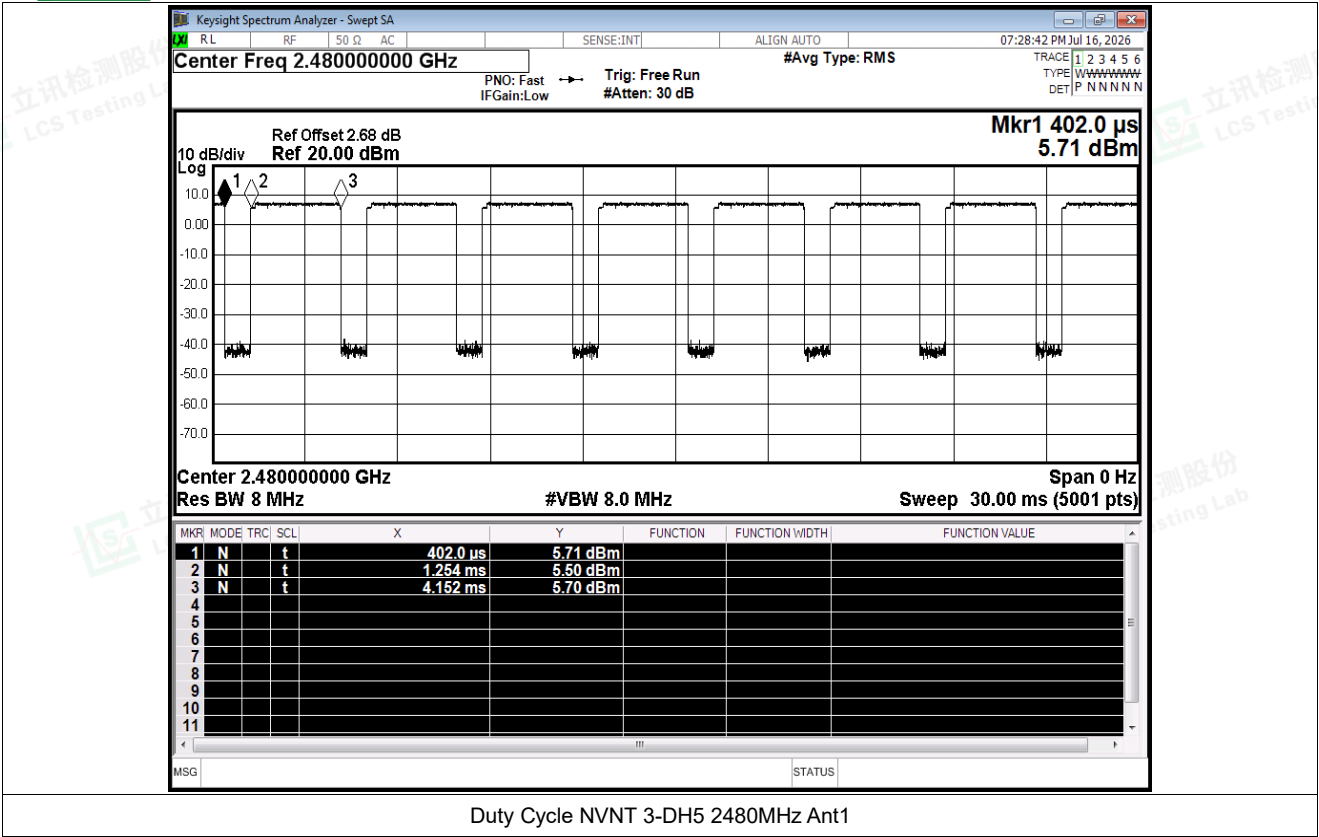


Duty Cycle NVNT 3-DH5 2441MHz Ant1

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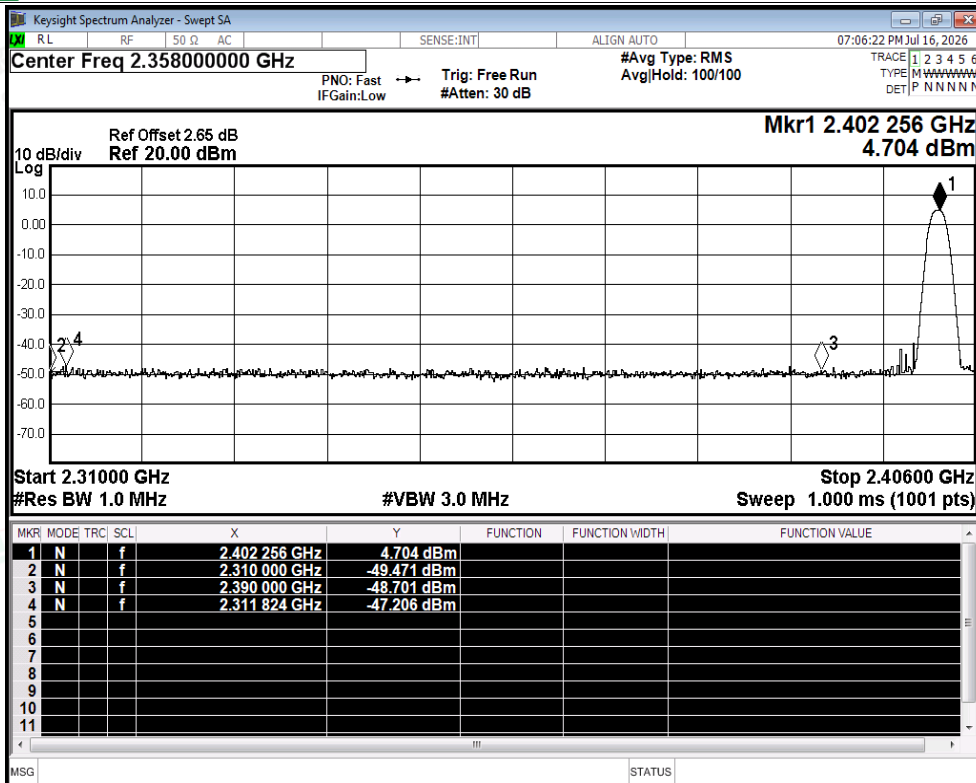
A.8 Restrict Band

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	-49.47	2.19	47.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.91	2.19	40.54	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2311.824	-47.2	2.19	50.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.91	2.19	40.54	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.09	2.19	47.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.15	2.19	40.30	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.61	2.19	48.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-53.1	2.19	44.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.976	-39.54	2.19	57.91	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-53.1	2.19	44.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.84	2.19	48.61	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.94	2.19	40.51	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.94	2.19	46.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-56.93	2.19	40.52	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2326.608	-46.68	2.19	50.77	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2312.976	-56.85	2.19	40.60	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.84	2.19	47.61	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-56.97	2.19	40.48	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-40.18	2.19	57.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.62	2.19	47.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-40.18	2.19	57.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-49.62	2.19	47.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49	2.19	48.45	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.85	2.19	40.60	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.7	2.19	48.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.06	2.19	40.39	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2336.016	-47.17	2.19	50.28	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2325.36	-56.91	2.19	40.54	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.69	2.19	47.76	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.11	2.19	40.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-41.18	2.19	56.27	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.11	2.19	48.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.68	-38.39	2.19	59.06	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-49.11	2.19	48.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.59	2.19	47.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.9	2.19	40.55	Average	54	Pass

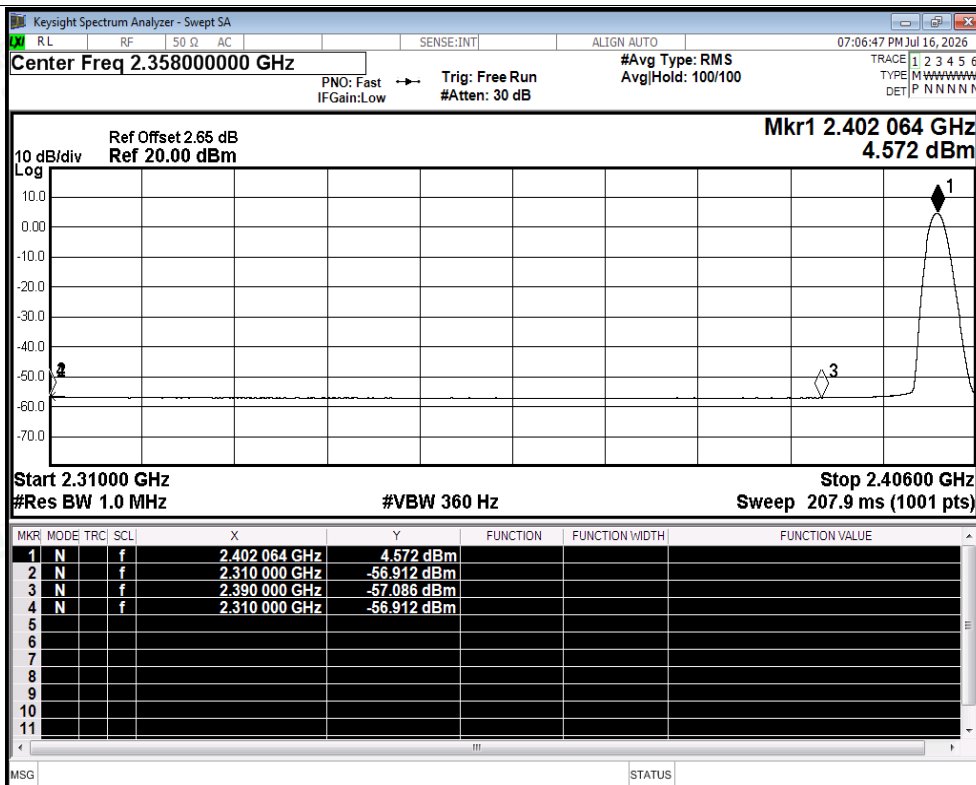
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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

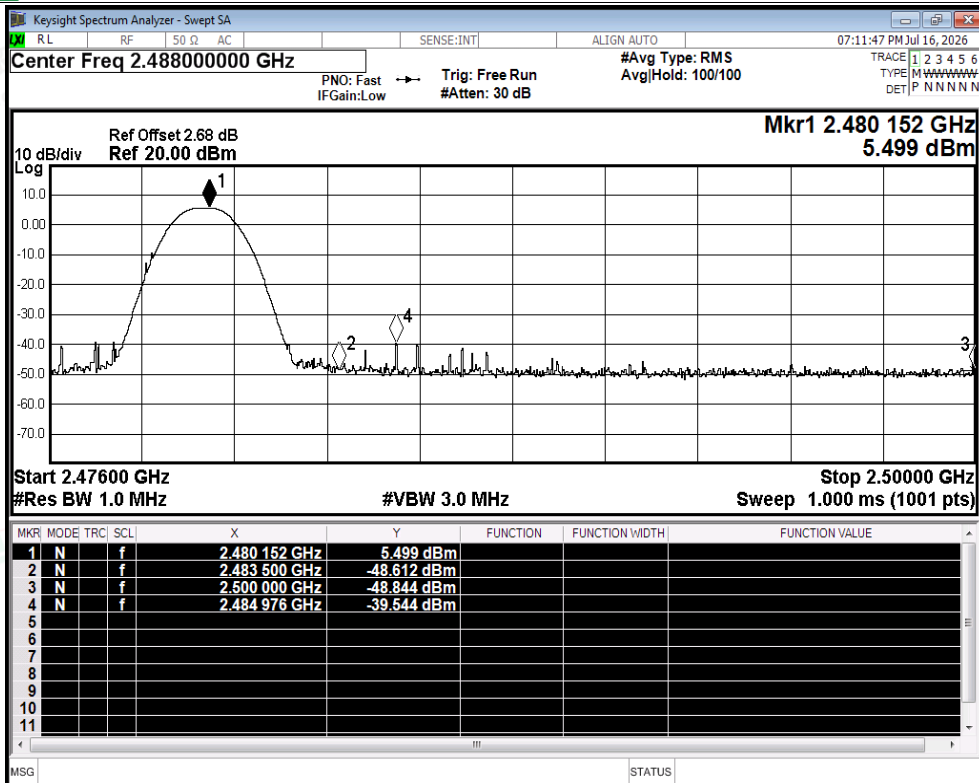


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

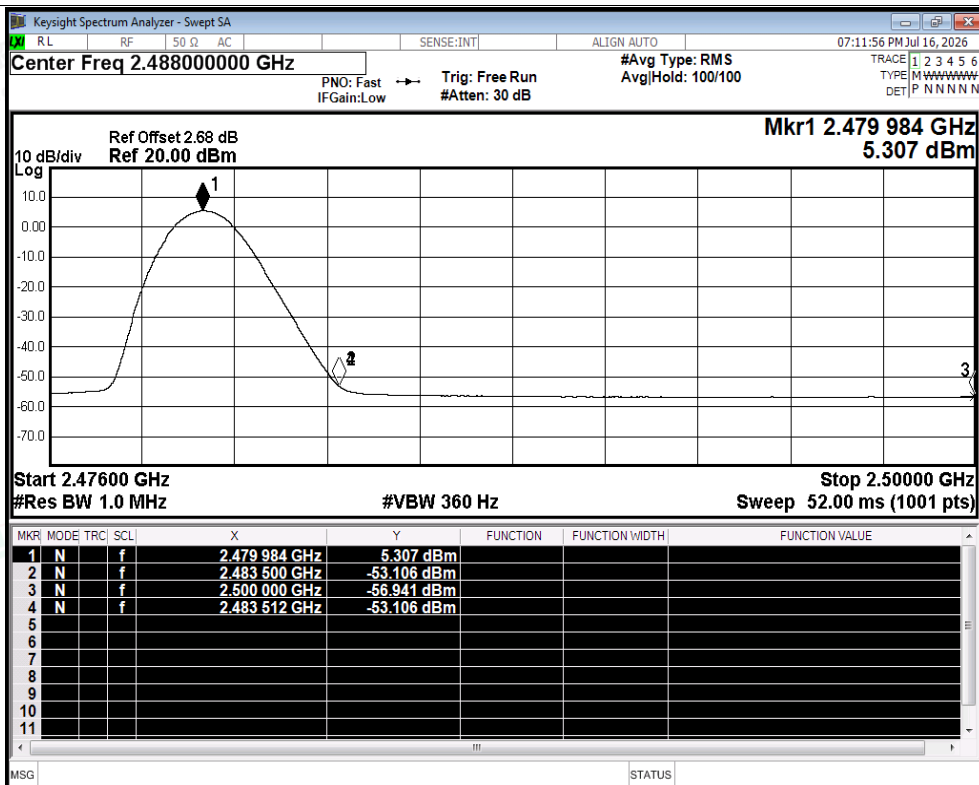
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

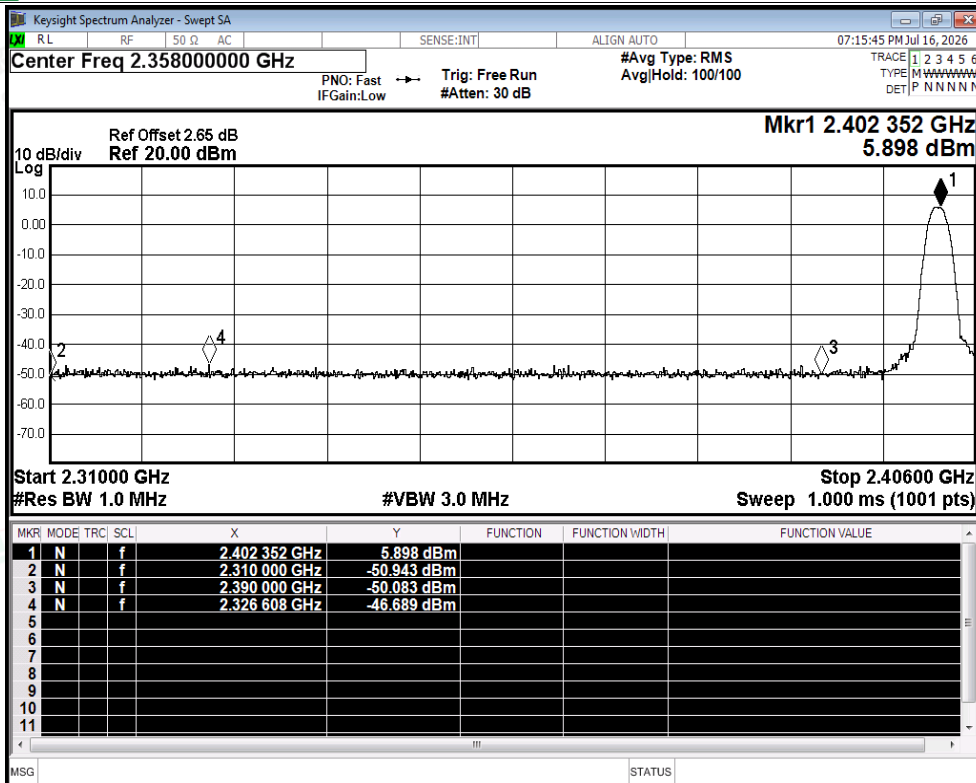


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

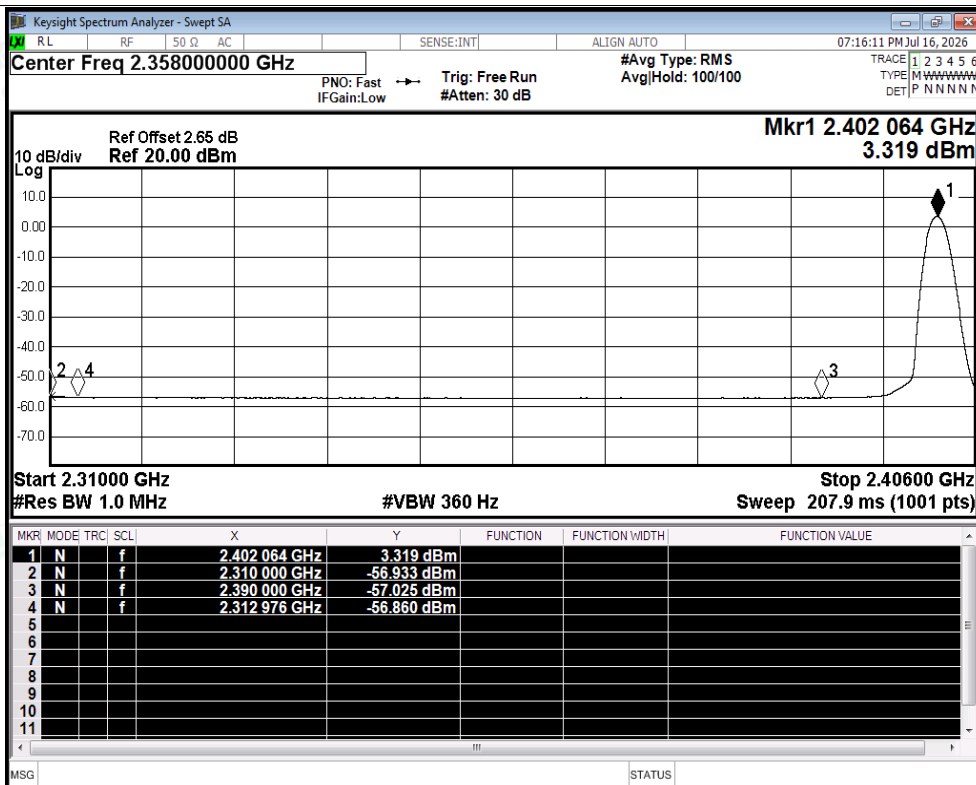
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

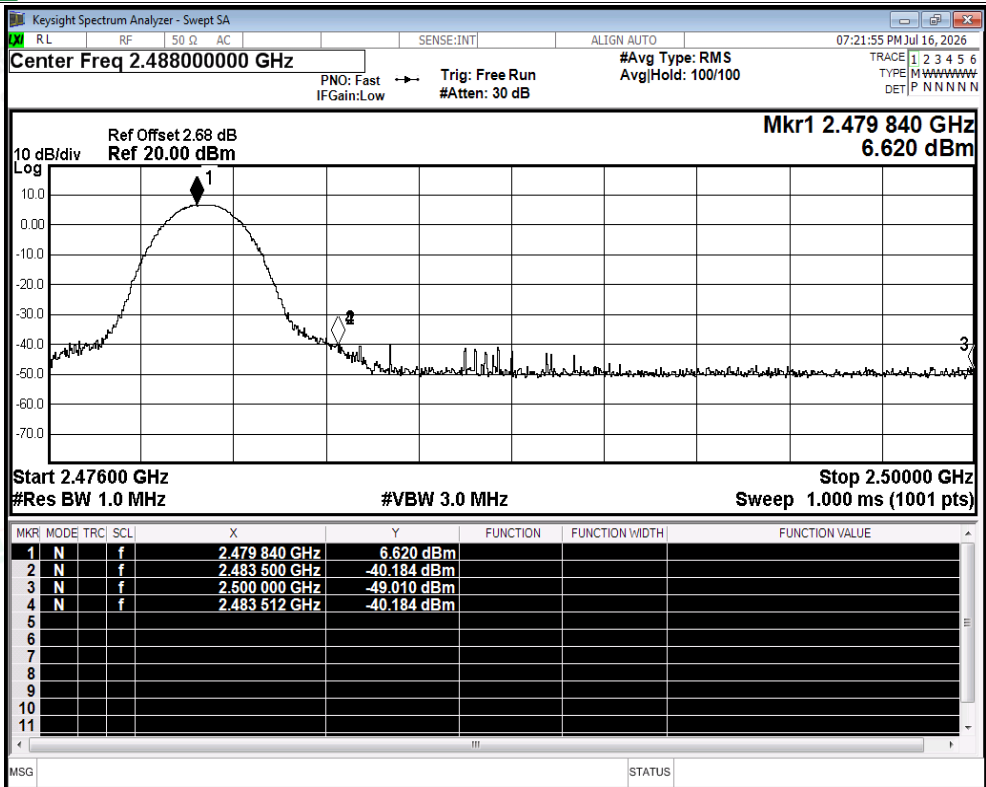


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

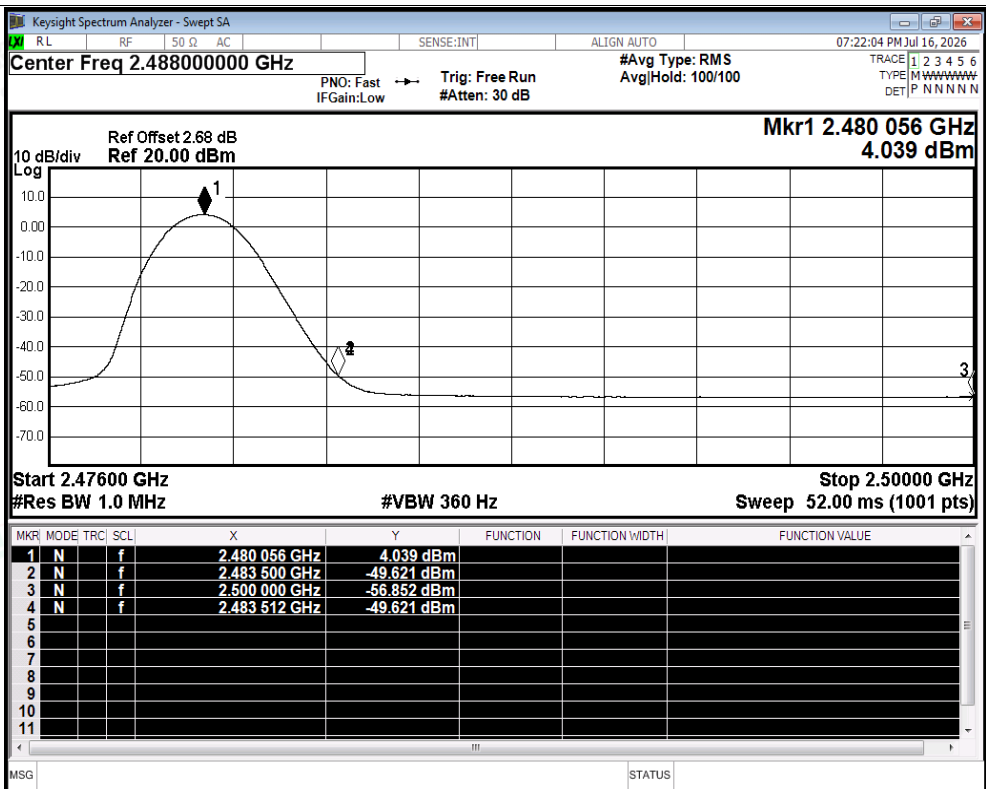
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

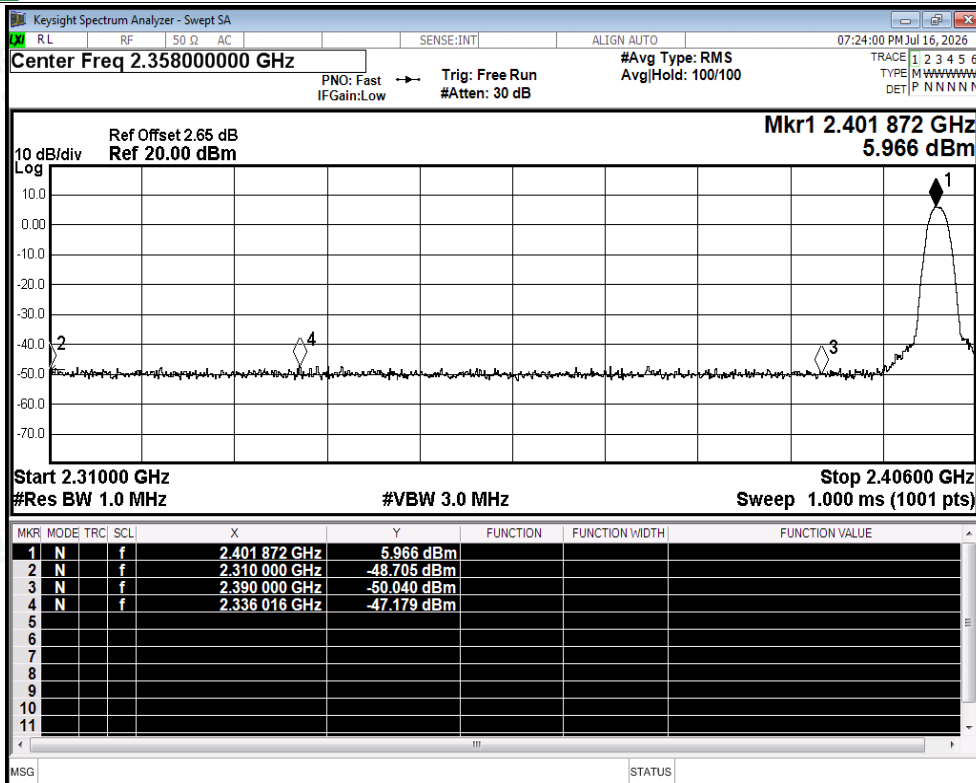


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

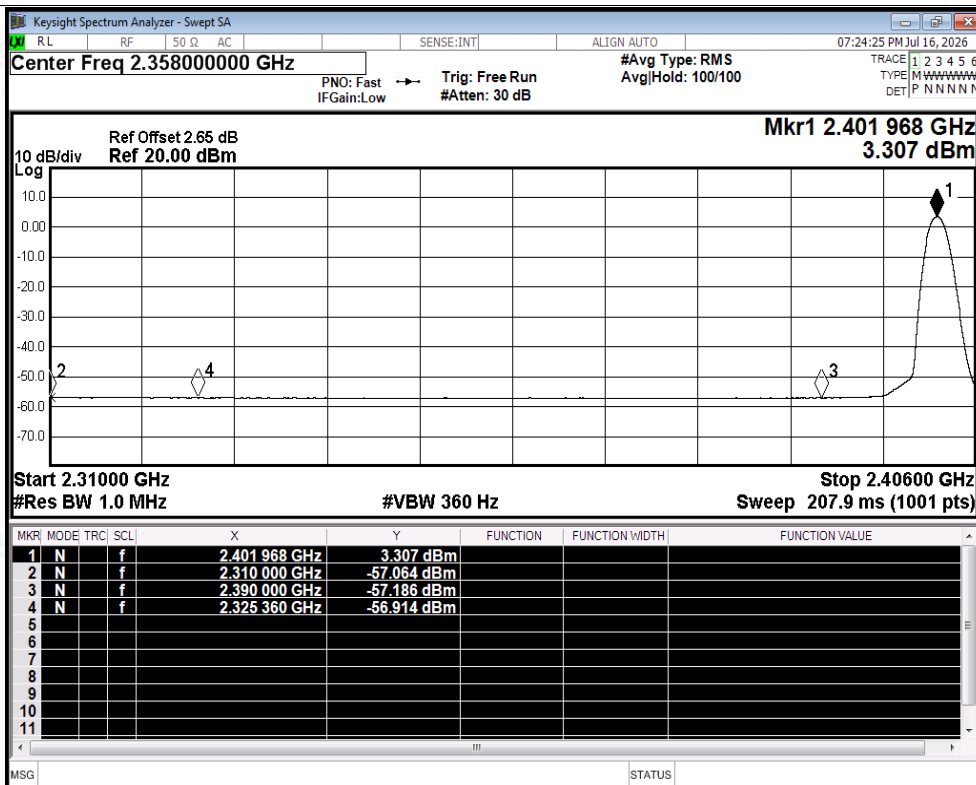
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

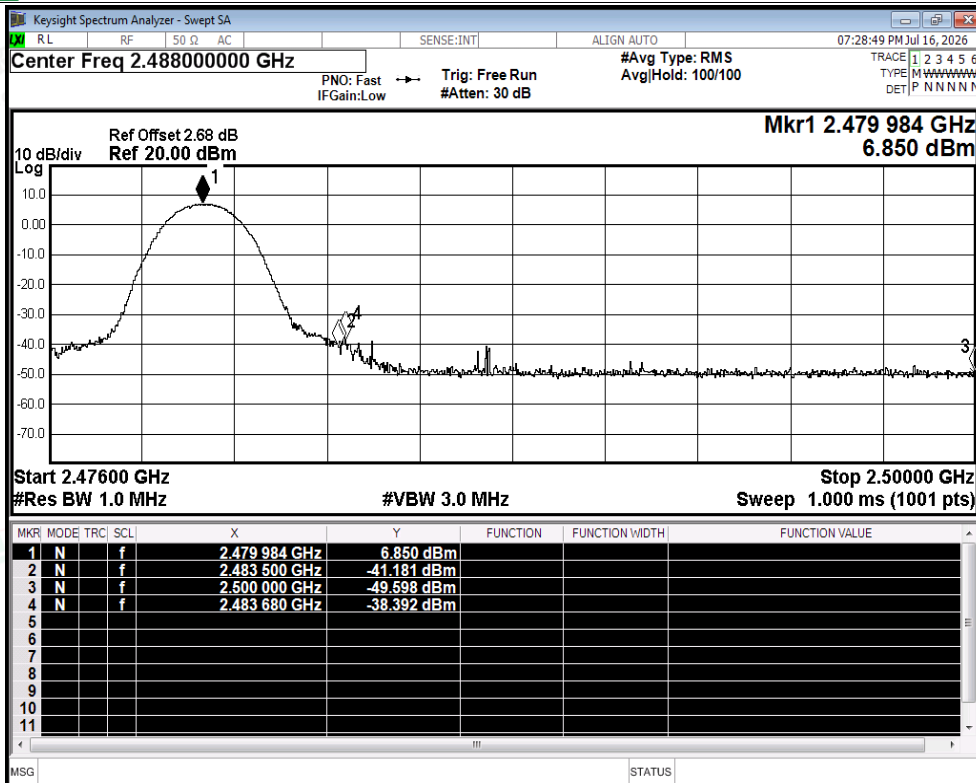


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

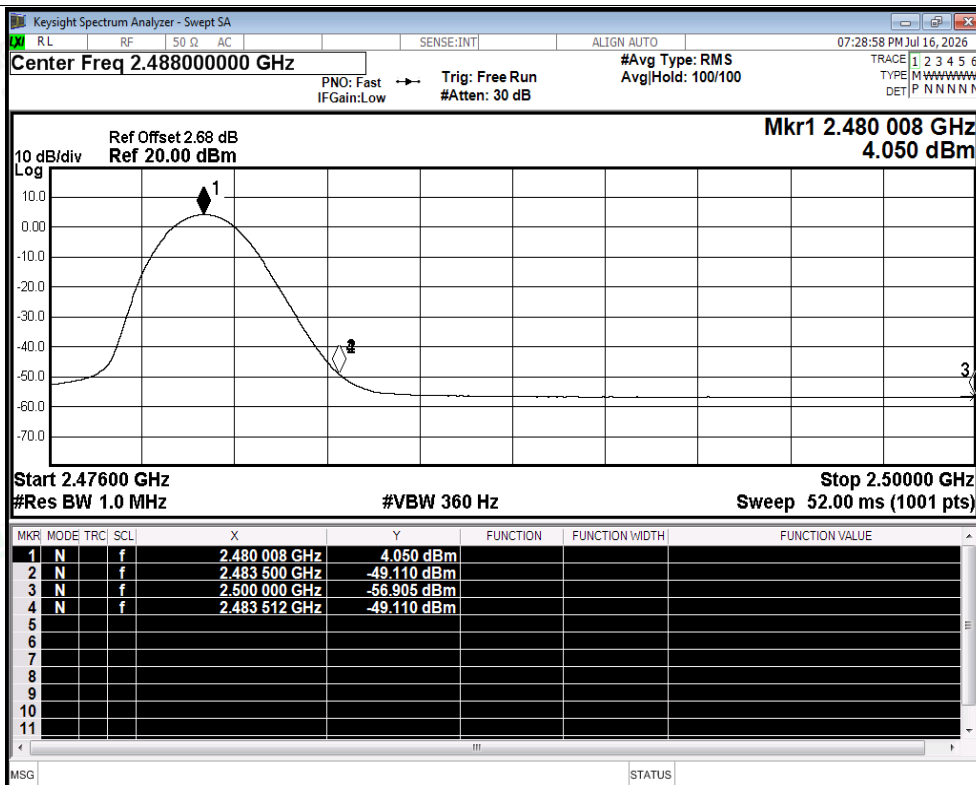
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