



Limited test report

REP160503-1R2TRFWL

Date of issue: July 29, 2026

Applicant:

Canary Medical

Product description:

Home Base Station

Model:

Gen 2 Home Base Station

Product marketing name(s):

N/A

FCC ID:

2AYAJ-BS1

ISED certification number:

N/A

Specifications:

- ◆ **FCC 47 CFR Part 15, Subpart C – §15.249. Limited Testing.**
Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz
- ◆ **Industry Canada RSS-210, Issue 10. Limited Testing.**
Licence-Exempt Radio Apparatus: Category I Equipment; Annex B10

Lab and test locations

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FCC Site Number	Test Firm Registration Number: 392943; Designation Number: US5058
ISED Test Site	2040B-3
Tested by	Martha Espinoza, Wireless Test Engineer
Reviewed by	James Cunningham, EMC/WL Manager
Review date	July 29, 2026
Reviewer signature	

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko USA's ISO/IEC 17025 accreditation.

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Section 1 Report summary

1.1 Test specifications

FCC 47 CFR Part 15, Subpart C – §15.249	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz
Industry Canada RSS-210 Issue 10, Annex B.10	Licence-Exempt Radio Apparatus: Category I Equipment; Annex B10 Bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz and 24-24.25 GHz

1.2 Scope

Limited testing was performed to verify the ongoing compliance of the product following a design modification. Testing was limited to the following:
Occupied Bandwidth.

Radiated Emissions from 1-18 GHz.

1.3 Statement of compliance

Testing was performed against relevant requirements of the test standard(s) as described in Section 1.2 above.

Results obtained indicate that the product under test complies in full with the tested requirements. The new radio module was tested and results were similar to the original radio model.

The test results relate only to the item(s) tested.

See “Section 2 Summary of test results” for full details.

1.4 Test report revision history

Table 1.4-1: Test report revision history

Revision #	Issue Date	Details of changes made to test report
REP160503-1TRFWL	April 16, 2026	Original report issued
REP160503-1R1TRFWL	May 21, 2026	Corrected FCC ID
REP160503-1R2TRFWL	July 29, 2026	Updated following TCB feedback

Section 2 Summary of test results

2.1 Sample information

Receipt date	16-Apr-26
Nemko sample ID number	REP160503

2.2 Testing period

Test start date	16-Apr-26
Test end date	16-Apr-26

2.3 Test results

Table 2.3-1: FCC 47 CFR Part 15, Subpart C, §15.249 requirements

Part	Test description	Verdict
§15.249(a)	Radiated emission, fundamental and harmonics	Pass
§15.249(b)	Fixed Point-to-Point operation in the 24.0 to 24.25 GHz band	Not applicable
§15.249(c)	Spurious emissions (except harmonics)	Pass

Table 2.3-2: ISSED RSS-210 Annex B.10 requirements

Part	Test description	Verdict
B.10(a)	Field strength of fundamental and harmonic emissions	Pass
B.10(b)	Spurious emissions (except harmonics)	Pass

Table 2.3-3: ISSED RSS-GEN requirements

Part	Test description	Verdict
6.7	Occupied bandwidth (99%)	Pass
7.3	Receiver radiated emission limits	Not applicable ¹
7.4	Receiver conducted emission limits	Not applicable ¹
8.8	Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus	Not tested

Notes: ¹ Only applicable to scanner receivers or stand-alone receivers operating in the band 30-960 MHz

Section 3 Equipment under test (EUT) details

3.1 Disclaimer

This section contains information provided by the applicant and has been utilized to support the test plan. Inaccurate information provided by the applicant can affect the validity of the results within this test report. Nemko accepts no responsibility for the information contained within this section and the impact it may have on the test plan and resulting measurements.

3.2 Applicant

Company name	Canary Medical
Address	2710 Loker Ave West, Suite 350
City	Carlsbad
State	CA
Postal/Zip code	92010
Country	USA

3.3 Manufacturer

Company name	Canary Medical
Address	2710 Loker Ave West, Suite 350
City	Carlsbad
State	CA
Postal/Zip code	92010
Country	USA

3.4 EUT information

Product name	Home Base Station
Model	Gen 2 Home Base Station
Variant(s)	N/A
Serial number	0100001964
Part number	N/A
Power requirements	5V DC (AC Adapter)
Description/theory of operation	The Gen 2 Home base station interfaces with smartphone app or computer app for setup and connection to the cloud. The home base station is a subsystem to the CTE with chirp system.
Operational frequencies	ISM Band: 2405 MHz; 2410 MHz; 2415 MHz; 2420 MHz; 2425 MHz; 2430 MHz
Software details	N/A

3.5 Transmitter Information

Frequency band	☐ 902 – 928 MHz ☒ 2400 – 2483.5MHz ☐ 5725 – 5875 MHz ☐ 24.00 – 24.25 GHz
Type(s) of modulation	OOK (On-Off Keying)
Power requirements	5V VDC
Antenna information	N/A

3.6 EUT setup details

Table 3.6-1: EUT sub assemblies

Description	Brand name	Model/Part number	Serial number	Rev.
N/A	N/A	N/A	N/A	-----

Table 3.6-2: EUT interface ports

Description	Qty.
USB Port	1

Table 3.6-3: Support equipment

Description	Brand name	Model/Part number	Serial number	Rev.
AC/DC Converter	N/A	N/A	N/A	-----

Table 3.6-4: Inter-connection cables

Cable description	From	To	Length (m)
USB Cable	EUT	AC/DC Converter	1.5

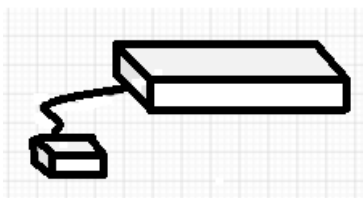


Figure 3.6-1: Test setup diagram

Section 4 Engineering considerations

4.1 Modifications incorporated in the EUT

None.

4.2 Technical judgement

None.

4.3 Deviations from laboratory test procedures

None.

Section 5 Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	86–106 kPa

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ± 5 %, for which the equipment was designed.

Section 6 Measurement uncertainty

6.1 Uncertainty of measurement

Nemko USA Inc. has calculated measurement uncertainty and is documented in EMC/MUC/001 "Uncertainty in EMC measurements." Measurement uncertainty was calculated using the methods described in CISPR 16-4-2 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics, and limit modelling – Measurement instrumentation uncertainty. The expression of Uncertainty in EMC testing. Measurement uncertainty calculations assume a coverage factor of K=2 with 95% certainty.

Table 6.1-1: Measurement uncertainty calculations

Measurement		U_{cispr} dB	U_{lab} dB
Conducted disturbance at AC mains and other port power using a V-AMN	9 kHz to 150 kHz	3.8	2.9
	150 kHz to 30 MHz	3.4	2.3
Conducted disturbance at telecommunication port using AAN	150 kHz to 30 MHz	5.0	4.3
Conducted disturbance at telecommunication port using CVP	150 kHz to 30 MHz	3.9	2.9
Conducted disturbance at telecommunication port using CP	150 kHz to 30 MHz	2.9	1.4
Conducted disturbance at telecommunication port using CP and CVP	150 kHz to 30 MHz	4.0	3.1
Radiated disturbance (electric field strength in a SAC)	30 MHz to 1 GHz	6.3	5.5
Radiated disturbance (electric field strength in a FAR)	1 GHz to 6 GHz	5.2	4.7
Radiated disturbance (electric field strength in a FAR)	6 GHz to 18 GHz	5.5	5.0

- Notes: Compliance assessment:
- If U_{lab} is less than or equal to U_{cispr} then:
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit
- If U_{lab} is greater than U_{cispr} then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cispr}})$, exceeds the disturbance limit;
 - non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cispr}})$, exceeds the disturbance limit

V-AMN: V type artificial mains network
 AAN: Asymmetric artificial network
 CP: Current probe
 CVP: Capacitive voltage probe
 SAC: Semi-anechoic chamber
 FAR: Fully anechoic room

Section 7 Test equipment

7.1 Test equipment list

Table 7.1-1: Test Equipment List

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
DRG Horn	ETS-Lindgren	3117-PA	E1160	2 Years	17-May-2026
EMI Test Receiver	R&S	ESU40	E1121	1 Year	07-Jan-2027
System controller	Sunol Sciences	SC104V	E1191	NCR	NCR
DRG Horn	ETS-Lindgren	3117-PA	E1160	2 Years	17-May-2026

Notes: NCR: no calibration required
VBU: verify before use

7.2 Test software list

Table 7.2-1: Test Software

Manufacturer	Details
Rohde & Schwarz	EMC 32 V10.60.15 (radiated emissions)

Section 8 Testing data

Notes

8.1 Restricted band edge emissions

8.1.1 References and limits

- FCC 47 CFR Part 15, Subpart C: §15.249(d)
- RSS-210 Annex F.1(e)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Table 8.1-1: 15.209 and RSS-Gen emissions field strength limits

Frequency, MHz	Field strength of emissions		Measurement distance, m
	µV/m	dBµV/m	
0.009–0.490	2400/F	$67.6 - 20 \times \log_{10}(F)$	300
0.490–1.705	24000/F	$87.6 - 20 \times \log_{10}(F)$	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
above 960	500	54.0	3

- Notes: In the emission table above, the tighter limit applies at the band edges. For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test

Table 8.1-2: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	Above 38.6
13.36–13.41			

8.1.2 Test summary

Verdict	Pass		
Test date	April 16, 2026	Temperature	20°C
Test engineer	Martha Espinoza, Wireless Test Engineer	Air pressure	1007 mbar
Test location	☐ 10m semi anechoic chamber	Relative humidity	53 %
	☒ 3m semi anechoic chamber		
	☐ Other:		

8.1.3 Notes

Testing was performed with the transmitter operating on low fixed channel at maximum output power. High channel was not tested due to the highest frequency channel is 2430 MHz according to client declaration, which means is far from the restrictive bands high edge.

The spectral plots within this section have been corrected with all relevant transducer factors.

8.1.4 Setup details

EUT power input during test	5VDC
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:

Receiver settings for radiated measurements above 1 GHz:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Detector mode	Average and peak (final measurements)
Trace mode	Max Hold
Measurement time	5 s (final measurements)

8.1.5 Test data

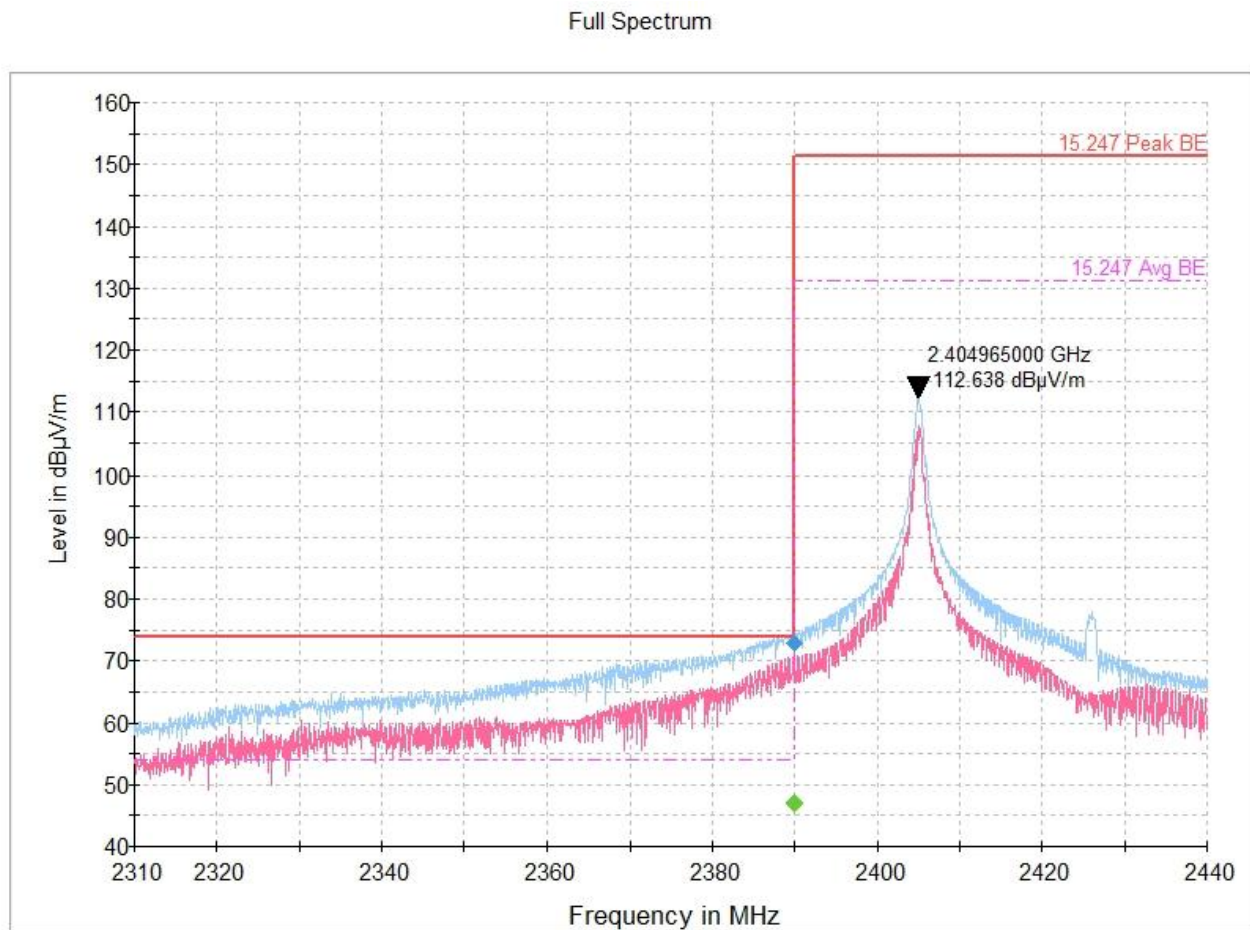


Figure 8.1-1: Radiated emissions spectral plot (2.31 GHz - 2.44 GHz). Low channel: 2405 MHz.

Table 8.1-3: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.950000	---	47.08	53.90	6.82	5000.0	1000.000	394.0	H	88.0	-4.0
2389.950000	72.85	---	73.90	1.05	5000.0	1000.000	394.0	H	88.0	-4.0
2390.000000	---	46.99	53.90	6.91	5000.0	1000.000	349.0	V	288.0	-4.0
2390.000000	72.79	---	73.90	1.11	5000.0	1000.000	349.0	V	288.0	-4.0

Notes:

- ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)
- ² Correction factors = antenna factor ACF (dB) + cable loss (dB)
- ³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.
- ⁴ The FCC 15.247 Limit is equivalent to the FCC 15.249 Limit for restrictive bands.

8.2 99% occupied bandwidth

8.2.1 References and limits

- ISED: RSS-Gen: §6.7
- Test method: ANSI C63.4-2020: §6.9.2

RSS-GEN:

- 6.7 The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

8.2.2 Test summary

Verdict	Pass		
Test date	April 16, 2026	Temperature	20°C
Test engineer	Martha Espinoza, Wireless Test Engineer	Air pressure	1007 mbar
Test location	☐ Wireless bench ☒ Other: 3m Chamber	Relative humidity	53 %

8.2.3 Notes

Testing was performed with the transmitter operating on a channel at maximum output power. Two samples were tested to compare the performance of both. The sample with the new module has the serial number: 0100001964 and the sample with the old modules has the serial number: 0100003078.

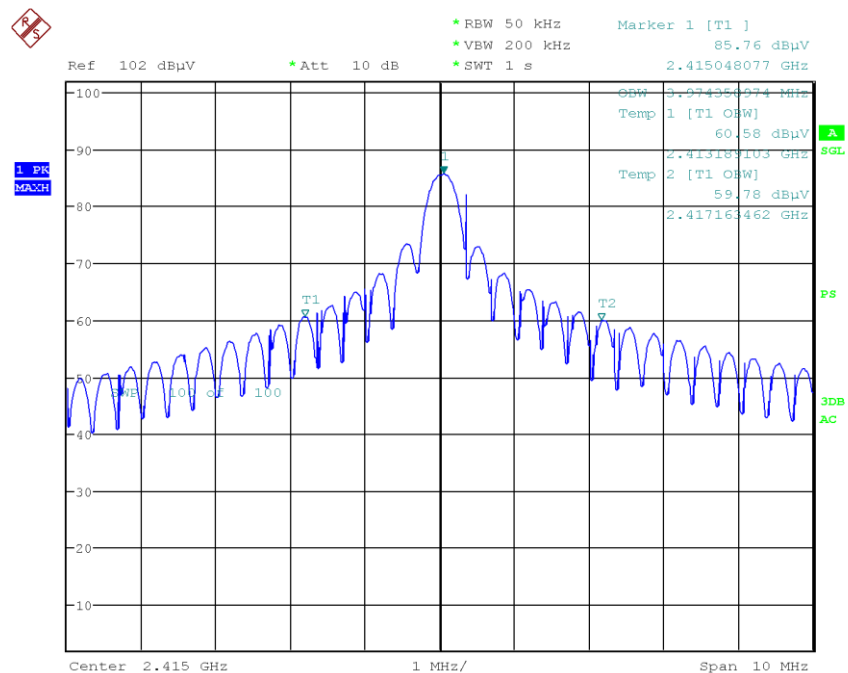
8.2.4 Setup details

EUT power input during test	5VDC
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:

Receiver settings:

Resolution bandwidth	1-5% OBW
Video bandwidth	1.5-5 OBW
Detector mode	Peak
Trace mode	Max Hold
Measurement time	Long enough for trace to stabilize

8.2.5 Test data



Section 8

Test name

Specification(s)

Testing data

99% occupied bandwidth

FCC 15.249 & RSS-210 Annex F



End of test report