

Starkey Laboratories, Inc.

Edge AI RIC RT

FCC 15.247:2024

RSS-247 Issue 3:2023

RSS-Gen Issue 5:2018+A1:2019+A2:2021

Bluetooth Radio

Report: STAK0329.0 Rev. 3, Issue Date: July 15, 2024

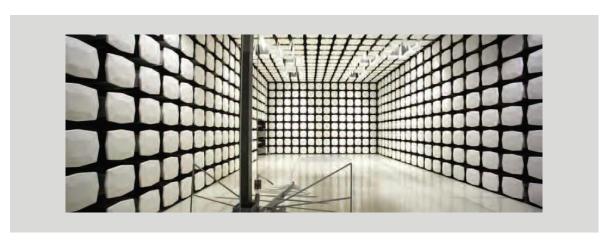






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CERTIFICATE OF TEST



Last Date of Test: June 10, 2024 Starkey Laboratories, Inc. EUT: Edge AI RIC RT Hearing Aid

Radio Equipment Testing

Standards

| Specification | Method |
|--------------------------------------|------------------|
| FCC 15.247:2024 | |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |
| RSS-Gen Issue 5:2018+A1:2019+A2:2021 | |

Guidance

| FCC KDB 558074 v05r02:2019 |
|----------------------------|
| Notice 2021 - CEB0001 |

Results

| Test Description | Result | FCC Section(s) | RSS Section(s) ANSI C63.10 Section(s) | | Comments |
|-------------------------------------|--------|-------------------------------------|--|-------------------------------|---|
| Powerline Conducted Emissions | N/A | 15.207 | RSS-Gen 8.8 | 6.2 | Not required for a battery powered EUT. |
| Duty Cycle | Pass | KDB 558074 -6.0 | RSS-Gen 3.2 | 11.6 | |
| DTS Bandwidth (6 dB) | Pass | 15.247(a)(2), KDB 558074 -8.2 | RSS-247 5.2(a) | 11.8.2 | |
| Occupied Bandwidth (99%) | Pass | KDB 558074 -2.1 | RSS-Gen 6.7 | 6.9.3 | |
| Output Power | Pass | 15.247(b)(3), KDB 558074 -8.3.1 | RSS-247 5.4(d, f), RSS-Gen 6.12 | 11.9.1.1 | |
| Equivalent Isotropic Radiated Power | Pass | 15.247(b)(3), KDB 558074 -8.3.1 | RSS-247 5.4(d, f), RSS-Gen 6.12 | 11.9.1.1 | |
| Power Spectral Density | Pass | 15.247(e), KDB 558074 -8.4 | RSS-247 5.2(b) | 11.10.2 | |
| Band Edge Compliance | Pass | 15.247(d), KDB 558074 -8.5 | RSS-247 5.5 | 11.11 | |
| Spurious Conducted Emissions | Pass | 15.247(d), KDB 558074 -8.5 | RSS-247 5.5 | 11.11 | |
| Spurious Radiated Emissions | Pass | 15.247(d), KDB 558074 - 8.6, 8.7 | RSS-247 5.5, RSS-Gen 6.13, 8.10 | 11.12.1, 11.13.2, 6.5, 6.6 | |

Deviations From Test Standards

None

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

CERTIFICATE OF TEST



Approved By:

M+B+

Mark Baytan, Department Manager Signed for and on behalf of Element

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REVISION HISTORY



| Revision Number | Description | Date (yyyy-mm-dd) | Page Number |
|--------------------|---|----------------------|-------------|
| 01 | New data to support clients test mode | 2024-06-18 | All pages |
| 02 | 2mbps updated to 0.3dB in Spurious Radiated Emissions | 2024-07-10 | 42-50 |
| 03 | Updated DCCF in Spurious Radiated Emissions | 2024-07-17 | 42-50 |

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission - Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS - Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA - Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC - Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA - Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<u>California</u> <u>Minnesota</u> <u>Oregon</u> <u>Texas</u> <u>Washington</u>

FACILITIES

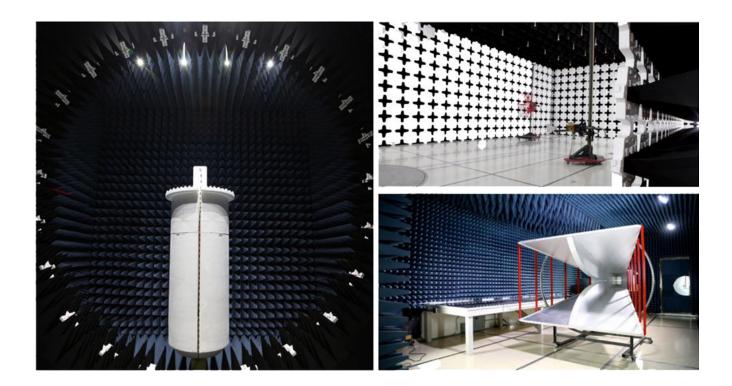


Testing was performed at the following location(s)

| | Location | Labs (1) | Address | A2LA (2) | ISED (3) | BSMI (4) | VCCI (5) | CAB (6) | FDA (7) |
|---|------------|----------|--|----------|----------|----------------|----------|---------|---------|
| | California | OC01-17 | 41 Tesla Irvine, CA 92618 (949) 861-8918 | 3310.04 | 2834B | SL2-IN-E-1154R | A-0029 | US0158 | TL-55 |
| × | Minnesota | MN01-11 | 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136 | 3310.05 | 2834E | SL2-IN-E-1152R | A-0109 | US0175 | TL-57 |
| | Oregon | EV01-12 | 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066 | 3310.02 | 2834D | SL2-IN-E-1017 | A-0108 | US0017 | TL-56 |
| | Texas | TX01-09 | 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255 | 3310.03 | 2834G | SL2-IN-E-1158R | A-0201 | US0191 | TL-54 |
| | Washington | NC01-05 | 19201 120th Ave NE Bothell, WA 98011 (425) 984-6600 | 3310.06 | 2834F | SL2-IN-E-1153R | A-0110 | US0157 | TL-67 |
| | Offsite | N/A | See Product Description | N/A | N/A | N/A | N/A | N/A | N/A |

See data sheets for specific labs

- The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
 AZLA Certificate No.
 ISED Company No.
 BSMI No.
 VCCI Site Filing No.
 CAB Identifier. Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA FDA ASCA No.



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

| Test | + MU | - MU |
|---------------------------------------|---------|----------|
| Frequency Accuracy | 0.0007% | -0.0007% |
| Amplitude Accuracy (dB) | 1.2 dB | -1.2 dB |
| Conducted Power (dB) | 1.2 dB | -1.2 dB |
| Radiated Power via Substitution (dB) | 0.7 dB | -0.7 dB |
| Temperature (degrees C) | 0.7°C | -0.7°C |
| Humidity (% RH) | 2.5% RH | -2.5% RH |
| Voltage (AC) | 1.0% | -1.0% |
| Voltage (DC) | 0.7% | -0.7% |
| Field Strength (dB) | 5.2 dB | -5.2 dB |
| AC Powerline Conducted Emissions (dB) | 3.2 dB | -3.2 dB |

TEST SETUP BLOCK DIAGRAMS

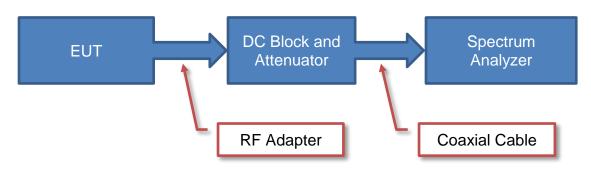


Measurement Bandwidths

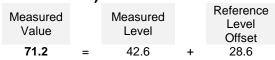
| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|--------------------------|--------------------|--------------------------|-----------------------|
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| Above 1000 | 1000.0 | N/A | 1000.0 |

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

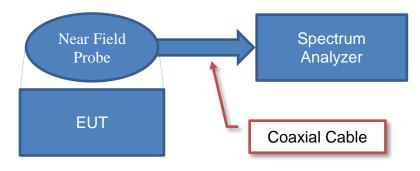
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)



Near Field Test Fixture Measurements

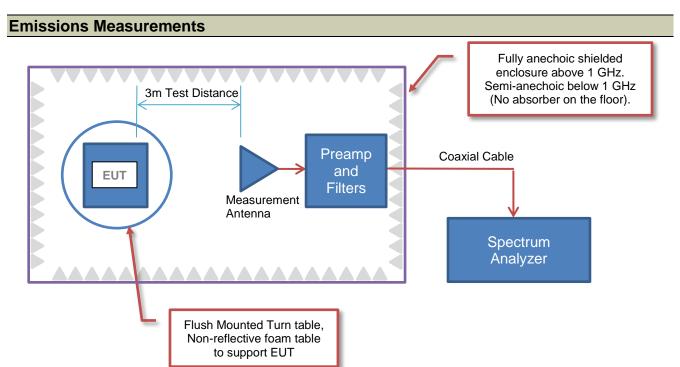


Sample Calculation (logarithmic units)

| Measured Value | | Measured Level | | Reference Level Offset |
|-------------------|---|-------------------|---|------------------------------|
| 71.2 | = | 42.6 | + | 28.6 |

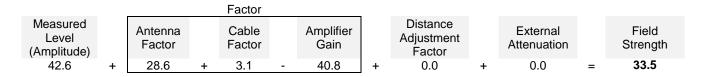
TEST SETUP BLOCK DIAGRAMS



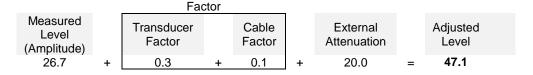


Sample Calculation (logarithmic units)

Radiated Emissions:



Conducted Emissions:



Radiated Power (ERP/EIRP) - Substitution Method:

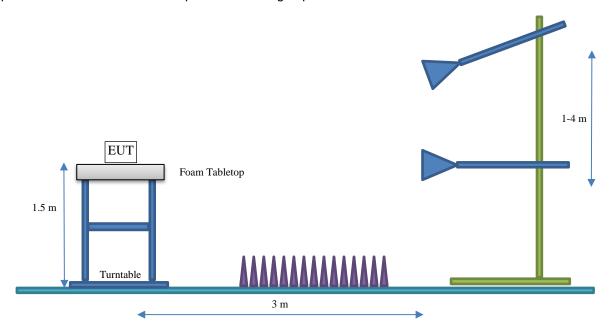
| Measured Level into Substitution Antenna (Amplitude dBm) | | Substitution Antenna Factor (dBi) | | EIRP to ERP (if applicable) | | Measured power (dBm ERP/EIRP) |
|--|---|---|---|-----------------------------|---|-------------------------------|
| 10.0 | + | 6.0 | - | 2.15 | = | 13.9/16.0 |

TEST SETUP BLOCK DIAGRAMS



Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION



Client and Equipment under Test (EUT) Information

| Company Name: | Starkey Laboratories, Inc. |
|--------------------------------|-----------------------------|
| Address: | 6600 Washington Ave S |
| City, State, Zip: | Eden Prairie, MN 55344-3404 |
| Test Requested By: | Bill Mitchell |
| EUT: | Edge Al RIC RT Hearing Aid |
| First Date of Test: | May 29, 2024 |
| Last Date of Test: | June 10, 2024 |
| Receipt Date of Samples: | May 29, 2024 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |
| Purchase Authorization: | Verified |

Information Provided by the Party Requesting the Test

| Functional Description of the EUT: | |
|--|--|
| Hearing aid with poor field magnetic induction and Plustooth I E | |

Testing Objective:

To demonstrate compliance of the Bluetooth radio to FCC 15.247/RSS-247 requirements.

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information. The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

ANTENNA GAIN (dBi)

| Type | Provided by: | Frequency Range (MHz) | Gain (dBi) |
|------------------|---------------------------|-----------------------|------------|
| Flexible Antenna | Starkey Laboratories, Inc | 2400-2485 | -4.3 |

The EUT was tested using the power settings provided by the manufacturer which were based upon:

- ☐ Test software settings
- □ Rated power settings

FW Version used for all other tests: 10.0.0.14.342

SW Version Monaco 7.0.2.0

SETTINGS FOR ALL TESTS IN THIS REPORT

| Modulation Types / Data Rates | Туре | Channel | Frequency (MHz) | Power Setting (dBm) |
|----------------------------------|------|----------|-----------------|---------------------|
| | | 0 or 37 | 2402 | 4 |
| BLE GFSK 1 Mbps | DTS | 20 or 18 | 2442 | 4 |
| | | 39 | 2480 | 4 |
| | | 0 or 37 | 2402 | 4 |
| BLE GFSK 2 Mbps | DTS | 20 or 18 | 2442 | 4 |
| | | 39 | 2480 | 4 |

CONFIGURATIONS



Configuration STAK0344-1

| EUT | | | |
|----------------------------|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Edge AI RIC RT Hearing Aid | Starkey | P00002179 | 240583884 |

| Remote Equipment Outside of Test Setup Boundary | | | | | |
|--|-------|------------|------------|--|--|
| Description Manufacturer Model/Part Number Serial Number | | | | | |
| Laptop | Dell | EP-3V3G0X2 | N/A | | |
| Noahlink Wireless | HIMSA | CPD-1 | 1981280195 | | |

Configuration STAK0344-2

| EUT | | | |
|----------------------------|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Edge AI RIC RT Hearing Aid | Starkey | P00002179 | 240583883 |

| Remote Equipment Outside of Test Setup Boundary | | | | | |
|--|-------|------------|------------|--|--|
| Description Manufacturer Model/Part Number Serial Number | | | | | |
| Laptop | Dell | EP-3V3G0X2 | N/A | | |
| Noahlink Wireless | HIMSA | CPD-1 | 1981280195 | | |

Report No. STAK0329.0 Rev 3

MODIFICATIONS



Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|------|------------|----------------|---------------|----------------------------|--------------------|
| | | Spurious | Tested as | No EMI suppression | EUT remained at |
| 1 | 2024-05-29 | Radiated | delivered to | devices were added or | Element following |
| | | Emissions | test Station. | modified during this test. | the test. |
| | | Spurious | Tested as | No EMI suppression | EUT remained at |
| 2 | 2024-06-10 | Conducted | delivered to | devices were added or | Element following |
| | | Emissions | test Station. | modified during this test. | the test. |
| | | Band Edge | Tested as | No EMI suppression | EUT remained at |
| 3 | 2024-06-10 | Compliance | delivered to | devices were added or | Element following |
| | | Compliance | test Station. | modified during this test. | the test. |
| | | DTS Bandwidth | Tested as | No EMI suppression | EUT remained at |
| 4 | 2024-06-10 | (6 dB) | delivered to | devices were added or | Element following |
| | | (0 42) | test Station. | modified during this test. | the test. |
| | | | Tested as | No EMI suppression | EUT remained at |
| 5 | 2024-06-10 | Duty Cycle | delivered to | devices were added or | Element following |
| | | | test Station. | modified during this test. | the test. |
| | | Equivalent | Tested as | No EMI suppression | EUT remained at |
| 6 | 2024-06-10 | Isotropic | delivered to | devices were added or | Element following |
| | | Radiated Power | test Station. | modified during this test. | the test. |
| | | Occupied | Tested as | No EMI suppression | EUT remained at |
| 7 | 2024-06-10 | Bandwidth | delivered to | devices were added or | Element following |
| | | (99%) | test Station. | modified during this test. | the test. |
| | | | Tested as | No EMI suppression | EUT remained at |
| 8 | 2024-06-10 | Output Power | delivered to | devices were added or | Element following |
| | | | test Station. | modified during this test. | the test. |
| | | Power Spectral | Tested as | No EMI suppression | Scheduled testing |
| 9 | 2024-06-10 | Density | delivered to | devices were added or | was completed. |
| | | Density | test Station. | modified during this test. | was completed. |



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a RF Power Sensor capable of 1 million samples per second, which only measures across the high time of the burst of the carrier. The measured level was offset by the cable loss, attenuator, and DC block that was used between the power sensor and EUT. This offset was determined prior to testing using a signal generator and spectrum analyzer.

The RF duty cycle was measured with the EUT set to the channels and modes called out in the data sheets.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |
| Meter - Power | ETS Lindgren | 7002-008 | SRA | 2024-02-19 | 2025-02-19 |



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.2°C |
| Attendees: | John Quach | Relative Humidity: | 44.4% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1016 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

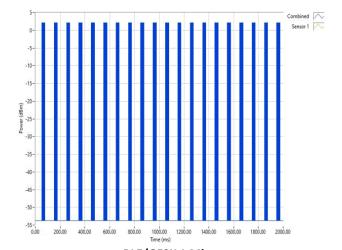
N/A

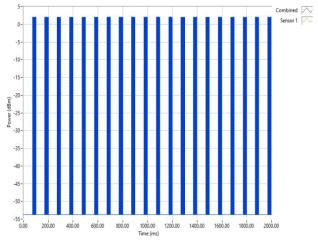
Clither Houten

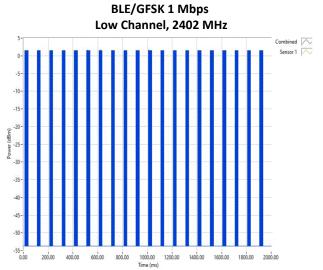
TEST RESULTS

| | | Duty | |
|-----------------|------------------------|-----------|---------|
| | | Cycle (%) | Results |
| BLE/GFSK 1 Mbps | | | |
| | Low Channel, 2402 MHz | 18.02 | N/A |
| | Mid Channel, 2442 MHz | 19.219 | N/A |
| | High Channel, 2480 MHz | 18.023 | N/A |
| BLE/GFSK 2 Mbps | | | |
| | Low Channel, 2402 MHz | 17.078 | N/A |
| | Mid Channel, 2442 MHz | 16.653 | N/A |
| | High Channel, 2480 MHz | 16.424 | N/A |







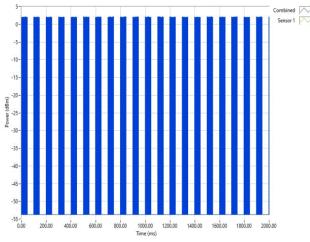




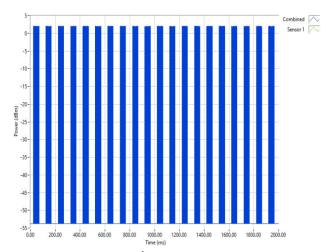
BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz

DTS BANDWIDTH (6 dB)



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The EUT was set to the channels and modes listed in the datasheet.

The 6dB DTS bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |

DTS BANDWIDTH (6 dB)



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.7% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

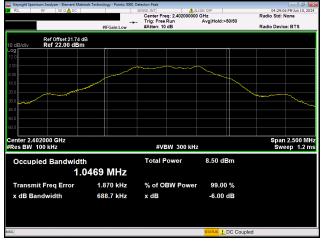
Cliffer Houten

TEST RESULTS

| | | Limit | |
|-----------------|------------------------|---------|--------|
| | Value | (≥) | Result |
| BLE/GFSK 1 Mbps | | | |
| Low Channel | , 2402 MHz 688.738 kHz | 500 kHz | Pass |
| Mid Channel | , 2442 MHz 679.223 kHz | 500 kHz | Pass |
| High Channel | , 2480 MHz 688.826 kHz | 500 kHz | Pass |
| BLE/GFSK 2 Mbps | | , | |
| Low Channel | , 2402 MHz 1.161 MHz | 500 kHz | Pass |
| Mid Channel | , 2442 MHz 1.163 MHz | 500 kHz | Pass |
| High Channel | , 2480 MHz 1.156 MHz | 500 kHz | Pass |

DTS BANDWIDTH (6 dB)



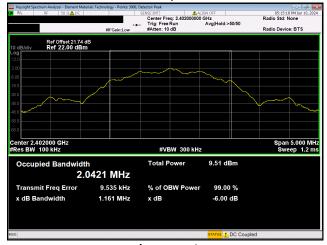




BLE/GFSK 1 Mbps Low Channel, 2402 MHz

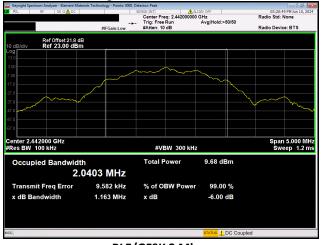
BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

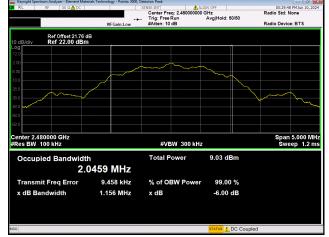




BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz

OCCUPIED BANDWIDTH (99%)



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation.

Per ANSI C63.10:2013, 6.9.3, the spectrum analyzer was configured as follows:

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto to prevent video filtering or averaging. A sample detector was used unless the device was not able to be operated in a continuous transmit mode, in which case a peak detector was used.

The spectrum analyzer occupied bandwidth measurement function was used to sum the power of the transmission in linear terms to obtain the 99% bandwidth.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | ΤF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |

OCCUPIED BANDWIDTH (99%)



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.7% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

N/A

Tested By

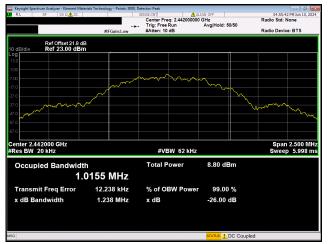
TEST RESULTS

| | | Value | Limit | Result |
|-----------------|------------------------|-----------|-------|--------|
| BLE/GFSK 1 Mbps | | | | |
| | Low Channel, 2402 MHz | 1.015 MHz | N/A | N/A |
| | Mid Channel, 2442 MHz | 1.016 MHz | N/A | N/A |
| | High Channel, 2480 MHz | 1.02 MHz | N/A | N/A |
| BLE/GFSK 2 Mbps | | | | |
| | Low Channel, 2402 MHz | 2.011 MHz | N/A | N/A |
| | Mid Channel, 2442 MHz | 2.008 MHz | N/A | N/A |
| | High Channel, 2480 MHz | 2.01 MHz | N/A | N/A |

OCCUPIED BANDWIDTH (99%)



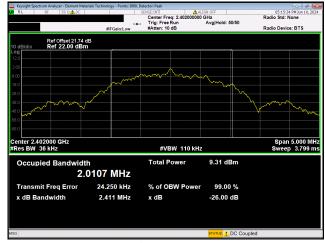




BLE/GFSK 1 Mbps Low Channel, 2402 MHz

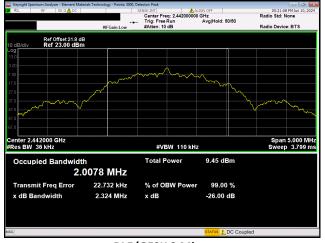
BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

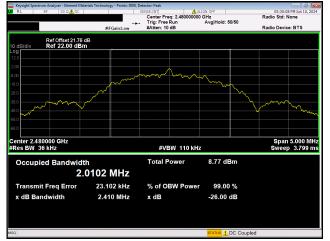




BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz

OUTPUT POWER



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |

OUTPUT POWER



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.6% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

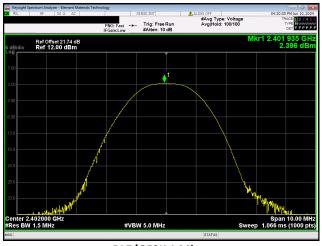
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Tested By

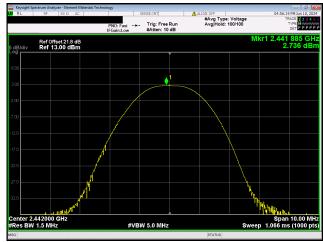
TEST RESULTS

| | Out Pwr | Limit | |
|------------------------|---------|-------|--------|
| | (dBm) | (dBm) | Result |
| BLE/GFSK 1 Mbps | | | |
| Low Channel, 2402 MHz | 2.396 | 30 | Pass |
| Mid Channel, 2442 MHz | 2.736 | 30 | Pass |
| High Channel, 2480 MHz | 2.588 | 30 | Pass |
| BLE/GFSK 2 Mbps | | | |
| Low Channel, 2402 MHz | 2.698 | 30 | Pass |
| Mid Channel, 2442 MHz | 2.799 | 30 | Pass |
| High Channel, 2480 MHz | 2.166 | 30 | Pass |

OUTPUT POWER

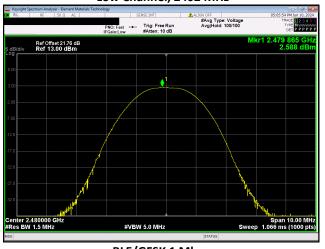


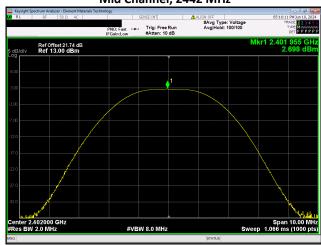




BLE/GFSK 1 Mbps Low Channel, 2402 MHz

BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

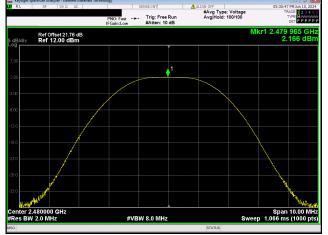




BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.8% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

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TEST RESULTS

| | | Out Pwr (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP Limit (dBm) | Result |
|-----------------|------------------------|------------------|-----------------------|---------------|---------------------|--------|
| BLE/GFSK 1 Mbps | | | , | | , , | |
| | Low Channel, 2402 MHz | 2.396 | -4.3 | -1.904 | 36 | Pass |
| | Mid Channel, 2442 MHz | 2.736 | -4.3 | -1.564 | 36 | Pass |
| | High Channel, 2480 MHz | 2.588 | -4.3 | -1.712 | 36 | Pass |
| BLE/GFSK 2 Mbps | | | | | | |
| | Low Channel, 2402 MHz | 2.698 | -4.3 | -1.602 | 36 | Pass |
| | Mid Channel, 2442 MHz | 2.799 | -4.3 | -1.501 | 36 | Pass |
| | High Channel, 2480 MHz | 2.166 | -4.3 | -2.134 | 36 | Pass |

POWER SPECTRAL DENSITY



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due | | |
|------------------------------|--------------------|-----------------------|-----|------------|------------|--|--|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 | | |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 | | |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 | | |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 | | |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 | | |

POWER SPECTRAL DENSITY



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 45.4% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

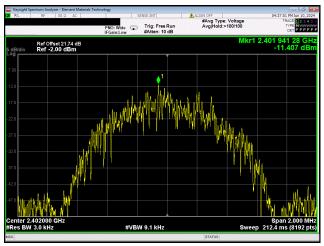
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Tested By

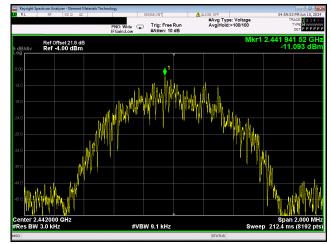
TEST RESULTS

| | | Value dBm/3kHz | Limit ≤ (dBm/3kHz) | Results |
|-----------------|------------------------|-------------------|-----------------------|---------|
| BLE/GFSK 1 Mbps | | | | |
| | Low Channel, 2402 MHz | -11.407 | 8 | Pass |
| | Mid Channel, 2442 MHz | -11.093 | 8 | Pass |
| | High Channel, 2480 MHz | -11.392 | 8 | Pass |
| BLE/GFSK 2 Mbps | | | | ı |
| | Low Channel, 2402 MHz | -15.374 | 8 | Pass |
| | Mid Channel, 2442 MHz | -15.382 | 8 | Pass |
| | High Channel, 2480 MHz | -15.842 | 8 | Pass |

POWER SPECTRAL DENSITY

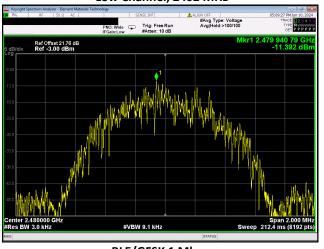


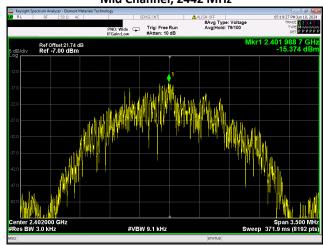




BLE/GFSK 1 Mbps Low Channel, 2402 MHz

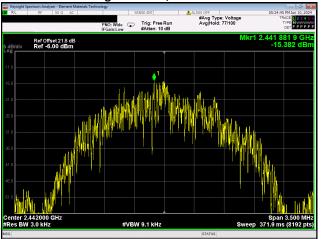
BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

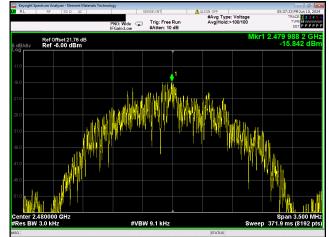




BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz

BAND EDGE COMPLIANCE



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. The analyzer screen captures for this test show an example of the emission mask for the test mode also used during the radiated spurious emissions at the restricted band edges test.

TEST EQUIPMENT

| 1201 23011 1112111 | | | | | | | |
|------------------------------|--------------------|-----------------------|-----|------------|------------|--|--|
| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due | | |
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 | | |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 | | |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 | | |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 | | |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 | | |

BAND EDGE COMPLIANCE



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.9% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

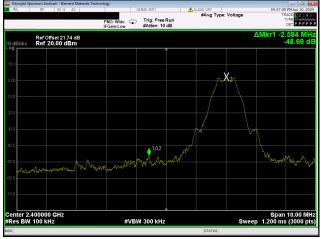
Clither Houten

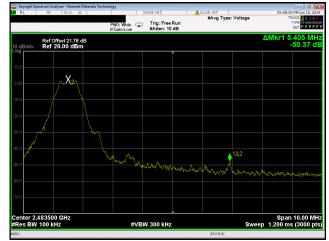
TEST RESULTS

| | | Value (dBc) | Limit ≤ (dBc) | Result |
|-----------------|------------------------|----------------|------------------|--------|
| BLE/GFSK 1 Mbps | | | | |
| | Low Channel, 2402 MHz | -48.69 | -20 | Pass |
| | High Channel, 2480 MHz | -50.37 | -20 | Pass |
| BLE/GFSK 2 Mbps | | | | |
| | Low Channel, 2402 MHz | -33.01 | -20 | Pass |
| | High Channel, 2480 MHz | -49.85 | -20 | Pass |

BAND EDGE COMPLIANCE







BLE/GFSK 1 Mbps Low Channel, 2402 MHz

BLE/GFSK 1 Mbps High Channel, 2480 MHz





BLE/GFSK 2 Mbps Low Channel, 2402 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

The reference level offset for the fundamental screen capture was based on a measured value of the loss between the spectrum analyzer and the EUT which was verified at the time of test. The remaining screen capture(s) use an internal transducer factor on the analyzer to correct the displayed trace based on the cable loss over frequency. The reference level offset for the additional screen capture(s) is then based on the expected attenuator value and any other losses.

Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

Remaining Screen capture(s) Offset = "Internal" cable loss factor not shown on screen capture + Ref Lvl Offset showing expected attenuator value and any other losses

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|-----------------------|-----|------------|------------|
| Generator - Signal | Agilent | N5182A | TIF | 2023-07-27 | 2026-07-27 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFM | 2024-05-22 | 2025-05-22 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | MNL | 2023-09-05 | 2024-09-05 |
| Block - DC | Fairview Microwave | SD3379 | ANH | 2023-09-05 | 2024-09-05 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2024-01-31 | 2025-01-31 |



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583883 | Date: | 2024-06-10 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 22.3°C |
| Attendees: | John Quach | Relative Humidity: | 44.6% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1017 mbar |
| Tested By: | Christopher Heintzelman | Job Site: | MN11 |
| Power: | Lithium Battery | Configuration: | STAK0344-2 |

TEST SPECIFICATIONS

| Specification: | Method: |
|----------------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |
| RSS-247 Issue 3:2023 | ANSI C63.10:2013 |

COMMENTS

+4 dBm Power Setting.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

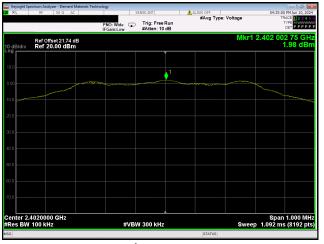
Pass

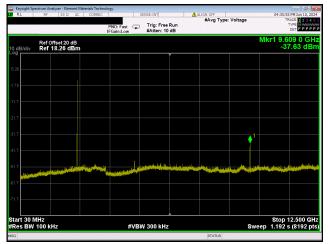
Tested By

TEST RESULTS

| | Frequency Range | Measured Freq (MHz) | Max Value (dBc) | Limit ≤ (dBc) | Result |
|------------------------|--------------------|------------------------|--------------------|------------------|----------|
| BLE/GFSK 1 Mbps | | | (===) | | 11111111 |
| Low Channel, 2402 MHz | Fundamental | 2402 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 9608.96 | -39.61 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24987.79 | -39.11 | -20 | Pass |
| Mid Channel, 2442 MHz | Fundamental | 2442 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 1715.3 | -37.79 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24911.49 | -39.78 | -20 | Pass |
| High Channel, 2480 MHz | Fundamental | 2480 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 9919.53 | -38.82 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24996.95 | -38.82 | -20 | Pass |
| BLE/GFSK 2 Mbps | | | | | |
| Low Channel, 2402 MHz | Fundamental | 2402.01 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 9605.91 | -41.38 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24948.11 | -38.4 | -20 | Pass |
| Mid Channel, 2442 MHz | Fundamental | 2442 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 9765.76 | -40.1 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24859.6 | -39.25 | -20 | Pass |
| High Channel, 2480 MHz | Fundamental | 2480 | N/A | N/A | N/A |
| | 30 MHz - 12.5 GHz | 9919.53 | -38.88 | -20 | Pass |
| | 12.5 GHz - 25 GHz | 24980.16 | -38.7 | -20 | Pass |



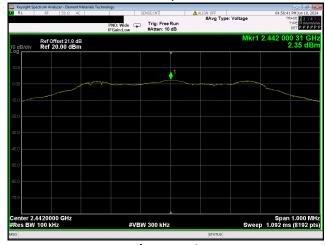




BLE/GFSK 1 Mbps Low Channel, 2402 MHz

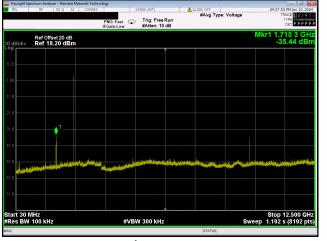
BLE/GFSK 1 Mbps Low Channel, 2402 MHz





BLE/GFSK 1 Mbps Low Channel, 2402 MHz

BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

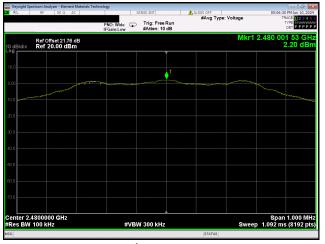


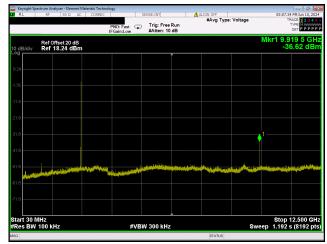


BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

BLE/GFSK 1 Mbps Mid Channel, 2442 MHz



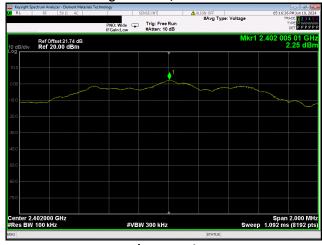




BLE/GFSK 1 Mbps High Channel, 2480 MHz

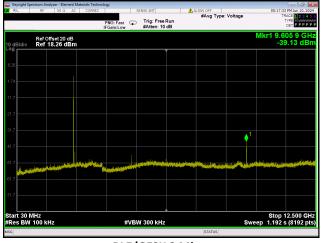
BLE/GFSK 1 Mbps High Channel, 2480 MHz





BLE/GFSK 1 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz

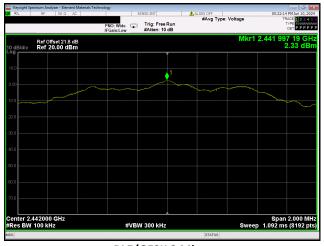


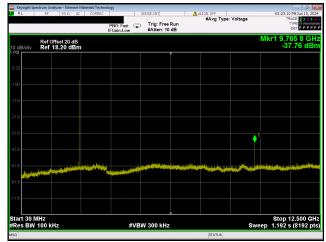


BLE/GFSK 2 Mbps Low Channel, 2402 MHz

BLE/GFSK 2 Mbps Low Channel, 2402 MHz



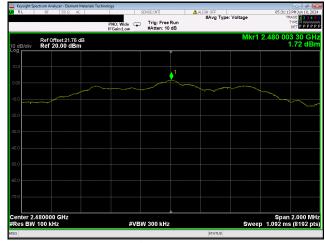




BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

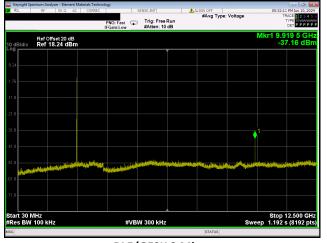
BLE/GFSK 2 Mbps Mid Channel, 2442 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz





BLE/GFSK 2 Mbps High Channel, 2480 MHz

BLE/GFSK 2 Mbps High Channel, 2480 MHz



TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements within 2 MHz of the allowable band may have been taken using the integration method from ANSI C63.10 clause 11.13.3. This procedure uses the channel power feature of the spectrum analyzer to integrate the power of the emission within a 1 MHz bandwidth.

Where the radio test software does not provide for a duty cycle at continuous transmit conditions (> 98%) and the RMS (power average) measurements were made across the on and off times of the EUT transmissions, a duty cycle correction is added to the measurements using the formula of 10*log(1/dc).

TEST EQUIPMENT

| 1201 24011 1112111 | | | | | |
|------------------------------|--------------------|-----------------------------------|-----|------------|------------|
| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
| Antenna - Double Ridge | ETS Lindgren | 3115 | AIP | 2022-07-20 | 2024-07-20 |
| Cable | ESM Cable Corp. | Double Ridge Guide Horn Cables | MNI | 2024-01-08 | 2025-01-08 |
| Amplifier - Pre-Amplifier | Miteq | AMF-3D-00100800-32-13P | AVT | 2024-01-08 | 2025-01-08 |
| Attenuator | Fairview Microwave | SA18H-20 | VAF | 2023-09-11 | 2024-09-11 |
| Analyzer - Spectrum Analyzer | Agilent | E4446A | AAQ | 2024-03-13 | 2025-03-13 |
| Filter - High Pass | Micro-Tronics | HPM50111 | LFN | 2023-08-23 | 2024-08-23 |
| Antenna - Standard Gain | ETS Lindgren | 3160-07 | AXP | NCR | NCR |
| Cable | ESM Cable Corp. | Standard Gain Horn Cables | MNJ | 2024-01-28 | 2025-01-28 |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVV | 2024-01-08 | 2025-01-08 |
| Antenna - Standard Gain | ETS Lindgren | 3160-08 | AIQ | NCR | NCR |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVW | 2024-01-08 | 2025-01-08 |
| Antenna - Biconilog | ETS Lindgren | 3142D | AXO | 2023-10-02 | 2025-10-02 |
| Cable | ESM Cable Corp. | Bilog Cables | MNH | 2023-10-08 | 2024-10-08 |
| Amplifier - Pre-Amplifier | Miteq | AM-1616-1000 | AVO | 2023-10-08 | 2024-10-08 |
| Filter - Low Pass | Micro-Tronics | LPM50004 | LFK | 2023-08-23 | 2024-08-23 |
| Antenna - Loop | ETS Lindgren | 6502 | AOB | 2023-06-12 | 2025-06-12 |
| Antenna - Standard Gain | ETS Lindgren | 3160-09 | AHG | NCR | NCR |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNP | 2023-09-05 | 2024-09-05 |
| Amplifier - Pre-Amplifier | Miteq | JSD4-18002600-26-8P | APU | 2023-09-05 | 2024-09-05 |
| | | | | | |



FREQUENCY RANGE INVESTIGATED

9 kHz TO 26500 MHz

POWER INVESTIGATED

Lithium Battery

CONFIGURATIONS INVESTIGATED

STAK0344-1

MODES INVESTIGATED

Transmitting BLE Low and High Chs (2402 and 2480 MHz) 1 Mbps and 2 Mbps
Transmitting BLE Low, Mid and High Chs (2402, 2442 and 2480 MHz) 1 Mbps and 2 Mbps



| EUT: | Edge AI RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583884 | Date: | 2024-05-29 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 21.1°C |
| Attendees: | John Quach | Relative Humidity: | 50% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1025 mb |
| Tested By: | Marcelo Aguayo | Job Site: | MN05 |
| Power: | Lithium Battery | Configuration: | STAK0344-1 |

TEST SPECIFICATIONS

| Specification: | Method: |
|-----------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |

TEST PARAMETERS

| Run #: | 17 | Test Distance (m): | 3 | Ant. Height(s) (m): | 1 to 4(m) |
|--------|----|--------------------|---|---------------------|-----------|

COMMENTS

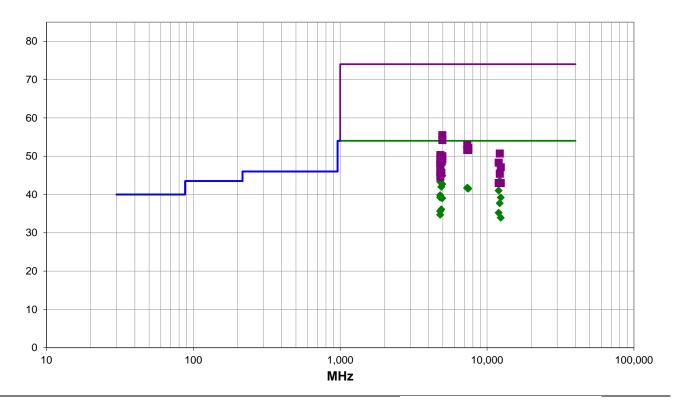
See comments for EUT orientation and data rate. Power +4dBm. Test mode duty cycle is 18.0% (1 Mbps) and 16.4% (2 Mbps), operational duty cycle is 16.8% (1 Mbps) and 17% (2 Mbps). Duty cycle correction factor (DCCF) applied using DCCF=[10*log(1/test mode DC)]+[10*log(operational DC)]=-0.3 dB (1 Mbps) or +0.2 dB (2 Mbps)

EUT OPERATING MODES

Transmitting BLE Low, Mid and High Chs (2402, 2442 and 2480 MHz) 1 Mbps and 2 Mbps

DEVIATIONS FROM TEST STANDARD

None



Run #: 17

PK

AV

QP



RESULTS - Run #17

| RESULTS - Run #17 | | | | | | | | | | | | | |
|-------------------|---------------------|------------------|----------------------------|----------------------|---|---------------------------------|------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|----------------------------|
| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Duty Cycle Correction Factor (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
| 4959.942 | 42.5 | 5.2 | 2.4 | 0.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 47.4 | 54.0 | -6.6 | EUT On Side, High Ch 1Mbps |
| 4803.925 | 39.9 | 5.1 | 2.9 | 40.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 44.7 | 54.0 | -9.3 | EUT On Side, Low Ch 1Mbps |
| 4959.953 | 39.6 | 5.2 | 3.4 | 9.9 | 0.2 | 0.0 | Horz | AV | 0.0 | 45 | 54.0 | -9 | EUT On Side, High Ch 2Mbps |
| 12209.060 | 44.3 | -0.8 | 2.2 | 88.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 43.2 | 54.0 | -10.8 | EUT On Side, Mid Ch 1Mbps |
| 4803.900 | 38.1 | 5.1 | 3.1 | 354.9 | -0.3 | 0.0 | Horz | AV | 0.0 | 42.9 | 54.0 | -11.1 | EUT Horz, Low Ch 1Mbps |
| 4959.892 | 37.4 | 5.2 | 2.9 | 319.9 | -0.3 | 0.0 | Vert | AV | 0.0 | 42.3 | 54.0 | -11.7 | EUT Horz, High Ch 1Mbps |
| 4883.933 | 36.8 | 5.1 | 1.7 | 340.9 | -0.3 | 0.0 | Horz | AV | 0.0 | 41.6 | 54.0 | -12.4 | EUT On Side, Mid Ch 1Mbps |
| 7325.808 | 29.2 | 12.4 | 1.5 | 278.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 41.3 | 54.0 | -12.7 | EUT On Side, Mid Ch 1Mbps |
| 7325.000 | 29.2 | 12.4 | 1.5 | 164.9 | -0.3 | 0.0 | Vert | AV | 0.0 | 41.3 | 54.0 | -12.7 | EUT Horz, Mid Ch 1Mbps |
| 7439.358 | 29.0 | 12.5 | 1.5 | 191.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 41.2 | 54.0 | -12.8 | EUT On Side, High Ch 1Mbps |
| 7441.158 | 28.9 | 12.5 | 1.5 | 324.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 41.1 | 54.0 | -12.9 | EUT Horz, High Ch 1Mbps |
| 12009.000 | 42.8 | -1.9 | 2.2 | 88.9 | -0.3 | 0.0 | Horz | AV | 0.0 | 40.6 | 54.0 | -13.4 | EUT On Side, Low Ch 1Mbps |
| 4803.983 | 34.6 | 5.1 | 4.0 | 232.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 39.4 | 54.0 | -14.6 | EUT Horz, Low Ch 1Mbps |
| 4803.975 | 34.0 | 5.1 | 1.2 | 1.9 | -0.3 | 0.0 | Vert | AV | 0.0 | 38.8 | 54.0 | -15.2 | EUT Vert, Low Ch 1Mbps |
| 12398.950 | 39.9 | -0.8 | 2.2 | 95.9 | -0.3 | 0.0 | Horz | AV | 0.0 | 38.8 | 54.0 | -15.2 | EUT On Side, High Ch 1Mbps |
| 4960.010 | 33.7 | 5.2 | 2.8 | 274.0 | 0.2 | 0.0 | Vert | AV | 0.0 | 39.1 | 54.0 | -14.9 | EUT Horz, High Ch 2Mbps |
| 12208.980 | 38.4 | -0.8 | 1.6 | 62.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 37.3 | 54.0 | -16.7 | EUT Horz, Mid Ch 1Mbps |
| 4883.950 | 30.9 | 5.1 | 1.5 | 357.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 35.7 | 54.0 | -18.3 | EUT Horz, Mid Ch 1Mbps |
| 4804.017 | 30.4 | 5.1 | 1.6 | 263.0 | -0.3 | 0.0 | Horz | AV | 0.0 | 35.2 | 54.0 | -18.8 | EUT Vert, Low Ch 1Mbps |
| 12008.840 | 37.0 | -1.9 | 1.5 | 62.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 34.8 | 54.0 | -19.2 | EUT Horz, Low Ch 1Mbps |
| 4960.567 | 50.3 | 5.2 | 2.6 | 340.0 | 0 | 0.0 | Horz | PK | 0.0 | 55.5 | 74.0 | -18.5 | EUT On Side, High Ch 1Mbps |
| 4803.767 | 29.5 | 5.1 | 1.5 | 1.9 | -0.3 | 0.0 | Vert | AV | 0.0 | 34.3 | 54.0 | -19.7 | EUT On Side, Low Ch 1Mbps |
| 12398.900 | 34.6 | -0.8 | 1.5 | 108.0 | -0.3 | 0.0 | Vert | AV | 0.0 | 33.5 | 54.0 | -20.5 | EUT Horz, High Ch 1Mbps |
| 4960.963 | 49.0 | 5.2 | 3.4 | 9.9 | 0 | 0.0 | Horz | PK | 0.0 | 54.2 | 74.0 | -19.8 | EUT On Side, High Ch 2Mbps |
| 7325.383 | 40.5 | 12.4 | 1.5 | 278.0 | 0 | 0.0 | Horz | PK | 0.0 | 52.9 | 74.0 | -21.1 | EUT On Side, Mid Ch 1Mbps |
| 7438.592 | 39.7 | 12.5 | 1.5 | 191.0 | 0 | 0.0 | Horz | PK | 0.0 | 52.2 | 74.0 | -21.8 | EUT On Side, High Ch 1Mbps |
| 7326.217 | 39.2 | 12.4 | 1.5 | 164.9 | 0 | 0.0 | Vert | PK | 0.0 | 51.6 | 74.0 | -22.4 | EUT Horz, Mid Ch 1Mbps |
| 7438.692 | 39.1 | 12.5 | 1.5 | 324.0 | 0 | 0.0 | Vert | PK | 0.0 | 51.6 | 74.0 | -22.4 | EUT Horz, High Ch 1Mbps |
| 12208.900 | 51.5 | -0.8 | 2.2 | 88.0 | 0 | 0.0 | Horz | PK | 0.0 | 50.7 | 74.0 | -23.3 | EUT On Side, Mid Ch 1Mbps |
| 4804.517 | 45.2 | 5.1 | 2.9 | 40.0 | 0 | 0.0 | Horz | PK | 0.0 | 50.3 | 74.0 | -23.7 | EUT On Side, Low Ch 1Mbps |
| 4960.293 | 44.8 | 5.2 | 2.8 | 274.0 | 0 | 0.0 | Vert | PK | 0.0 | 50 | 74.0 | -24 | EUT Horz, High Ch 2Mbps |
| 4804.342 | 44.2 | 5.1 | 3.1 | 354.9 | 0 | 0.0 | Horz | PK | 0.0 | 49.3 | 74.0 | -24.7 | EUT Horz, Low Ch 1Mbps |
| 4884.133 | 44.1 | 5.1 | 1.7 | 340.9 | 0 | 0.0 | Horz | PK | 0.0 | 49.2 | 74.0 | -24.8 | EUT On Side, Mid Ch 1Mbps |
| 4959.292 | 43.9 | 5.2 | 2.9 | 319.9 | 0 | 0.0 | Vert | PK | 0.0 | 49.1 | 74.0 | -24.9 | EUT Horz, High Ch 1Mbps |
| 12009.530 | 50.2 | -1.9 | 2.2 | 88.9 | 0 | 0.0 | Horz | PK | 0.0 | 48.3 | 74.0 | -25.7 | EUT On Side, Low Ch 1Mbps |
| 4803.942 | 43.0 | 5.1 | 1.2 | 1.9 | 0 | 0.0 | Vert | PK | 0.0 | 48.1 | 74.0 | -25.9 | EUT Vert, Low Ch 1Mbps |
| 4804.333 | 42.6 | 5.1 | 4.0 | 232.0 | 0 | 0.0 | Vert | PK | 0.0 | 47.7 | 74.0 | -26.3 | EUT Horz, Low Ch 1Mbps |
| 12398.880 | 47.9 | -0.8 | 2.2 | 95.9 | 0 | 0.0 | Horz | PK | 0.0 | 47.1 | 74.0 | -26.9 | EUT On Side, High Ch 1Mbps |
| 4803.483 | 40.7 | 5.1 | 1.6 | 263.0 | 0 | 0.0 | Horz | PK | 0.0 | 45.8 | 74.0 | -28.2 | EUT Vert, Low Ch 1Mbps |
| 4886.350 | 40.6 | 5.1 | 1.5 | 357.0 | 0 | 0.0 | Vert | PK | 0.0 | 45.7 | 74.0 | -28.3 | EUT Horz, Mid Ch 1Mbps |
| | | | | | | | | | | | | | |



| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Duty Cycle Correction Factor (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
|---------------|---------------------|------------------|----------------------------|----------------------|---|---------------------------------|------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|---------------------------|
| 12211.280 | 46.2 | -0.8 | 1.6 | 62.0 | 0 | 0.0 | Vert | PK | 0.0 | 45.4 | 74.0 | -28.6 | EUT Horz, Mid Ch 1Mbps |
| 4806.150 | 39.4 | 5.2 | 1.5 | 1.9 | 0 | 0.0 | Vert | PK | 0.0 | 44.6 | 74.0 | -29.4 | EUT On Side, Low Ch 1Mbps |
| 12009.080 | 44.9 | -1.9 | 1.5 | 62.0 | 0 | 0.0 | Vert | PK | 0.0 | 43 | 74.0 | -31 | EUT Horz, Low Ch 1Mbps |
| 12398.650 | 43.8 | -0.8 | 1.5 | 108.0 | 0 | 0.0 | Vert | PK | 0.0 | 43 | 74.0 | -31 | EUT Horz, High Ch 1Mbps |

CONCLUSION

Pass

Tested By



| EUT: | Edge Al RIC RT Hearing Aid | Work Order: | STAK0344 |
|-------------------|----------------------------|-----------------------|------------|
| Serial Number: | 240583884 | Date: | 2024-05-29 |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 21.1°C |
| Attendees: | John Quach | Relative Humidity: | 50% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1025 mb |
| Tested By: | Marcelo Aguayo | Job Site: | MN05 |
| Power: | Lithium Battery | Configuration: | STAK0344-1 |

TEST SPECIFICATIONS

| Specification: | Method: |
|-----------------|------------------|
| FCC 15.247:2024 | ANSI C63.10:2013 |

TEST PARAMETERS

| Run #: | 23 | Test Distance (m): | 3 | Ant. Height(s) (m): | 1 to 4(m) |
|--------|----|--------------------|---|---------------------|-----------|
|--------|----|--------------------|---|---------------------|-----------|

COMMENTS

See comments for EUT orientation and data rate. Power +4dBm. Test mode duty cycle is 18.0% (1 Mbps) and 16.4% (2 Mbps), operational duty cycle is 16.8% (1 Mbps) and 17% (2 Mbps). Duty cycle correction factor (DCCF) applied using DCCF=[10*log(1/test mode DC)]+[10*log(operational DC)]=-0.3 dB (1 Mbps) or +0.2 dB (2 Mbps)

EUT OPERATING MODES

Transmitting BLE Low and High Chs (2402 and 2480 MHz) 1 Mbps and 2 Mbps

DEVIATIONS FROM TEST STANDARD

None





RESULTS - Run #23

| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Duty Cycle Correction Factor (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
|---------------|---------------------|------------------|----------------------------|----------------------|---|---------------------------------|------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|----------------------------|
| 2483.763 | 31.3 | -3.5 | 1.5 | 321.0 | 0.2 | 20.0 | Horz | AV | 0.0 | 48 | 54.0 | -6.0 | EUT On Side, High Ch 2Mbps |
| 2483.813 | 31.2 | -3.5 | 1.5 | 310.0 | 0.2 | 20.0 | Vert | AV | 0.0 | 47.9 | 54.0 | -6.1 | EUT Horz, High Ch 2Mbps |
| 2389.363 | 31.6 | -4.1 | 3.0 | 315.9 | -0.3 | 20.0 | Horz | AV | 0.0 | 47.2 | 54.0 | -6.8 | EUT On Side, Low Ch 1Mbps |
| 2389.597 | 31.6 | -4.1 | 1.5 | 246.0 | -0.3 | 20.0 | Vert | AV | 0.0 | 47.2 | 54.0 | -6.8 | EUT Horz, Low Ch 1Mbps |
| 2389.713 | 31.6 | -4.1 | 1.5 | 242.0 | 0.2 | 20.0 | Vert | AV | 0.0 | 47.5 | 54.0 | -6.5 | EUT Horz, Low Ch 2Mbps |
| 2389.007 | 31.6 | -4.1 | 1.5 | 333.0 | 0.2 | 20.0 | Horz | AV | 0.0 | 47.5 | 54.0 | -6.5 | EUT On Side, Low Ch 2Mbps |
| 2484.923 | 43.1 | -3.5 | 1.5 | 321.0 | 0.0 | 20.0 | Horz | PK | 0.0 | 59.6 | 74.0 | -14.4 | EUT On Side, High Ch 1Mbps |
| 2483.773 | 42.5 | -3.5 | 1.5 | 310.0 | 0.0 | 20.0 | Vert | PK | 0.0 | 59.0 | 74.0 | -15.0 | EUT Horz, High Ch 2Mbps |
| 2388.207 | 43.0 | -4.1 | 1.5 | 246.0 | 0.0 | 20.0 | Vert | PK | 0.0 | 58.9 | 74.0 | -15.1 | EUT Horz, Low Ch 1Mbps |
| 2389.603 | 42.5 | -4.1 | 1.5 | 333.0 | 0.0 | 20.0 | Horz | PK | 0.0 | 58.4 | 74.0 | -15.6 | EUT On Side, Low Ch 2Mbps |
| 2388.157 | 42.4 | -4.1 | 3.0 | 315.9 | 0.0 | 20.0 | Horz | PK | 0.0 | 58.3 | 74.0 | -15.7 | EUT On Side, Low Ch 2Mbps |
| 2388.797 | 42.2 | -4.1 | 1.5 | 242.0 | 0.0 | 20.0 | Vert | PK | 0.0 | 58.1 | 74.0 | -15.9 | EUT Horz, Low Ch 2Mbps |

CONCLUSION

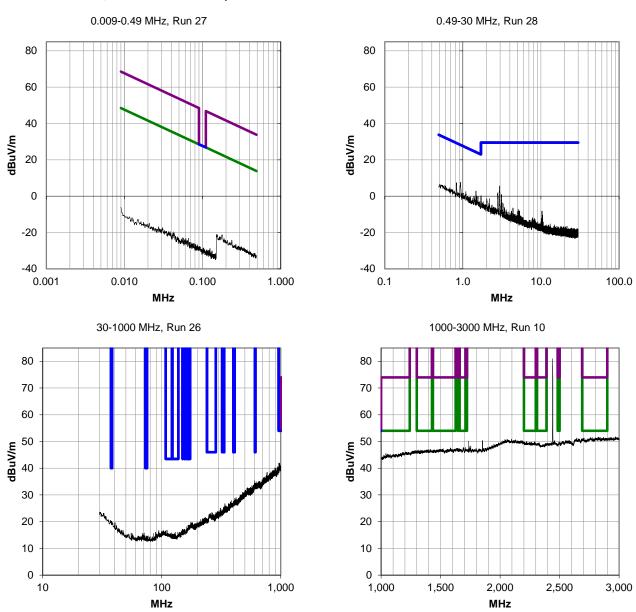
Pass

Tested By

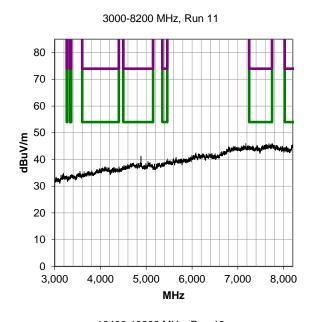


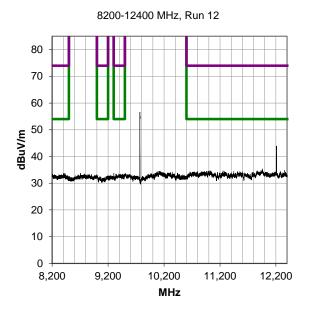
PRESCAN DATA

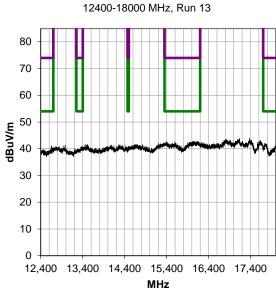
Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

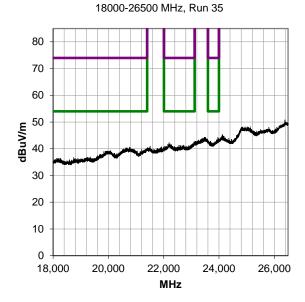














End of Test Report