



element

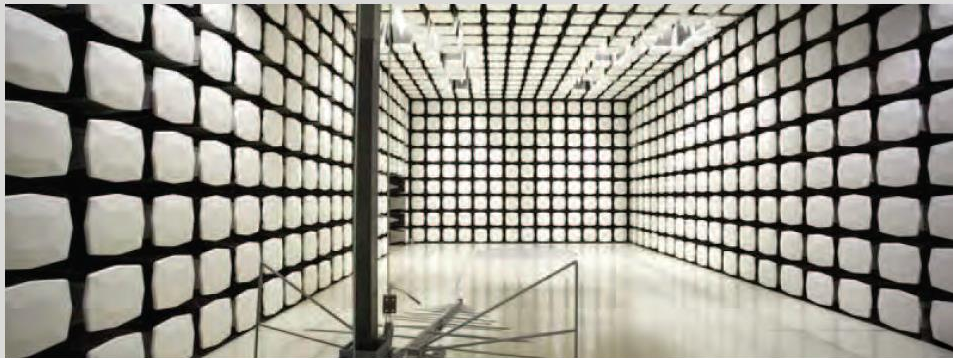
Fortell Research Inc.

Fortell AI Hearing Aid, Right

FCC 15.247:2025

Bluetooth Radio

Report: CHRM0004.1 Rev. 1, Issue Date: November 6, 2025



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CERTIFICATE OF TEST

Last Date of Test: November 6, 2025

Fortell Research Inc.

EUT: Fortell AI Hearing Aid, Right

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2025	ANSI C63.10:2020

Guidance

FCC KDB 558074 v05r02:2019

Notice 2021 – CEB0001

Results

Test Description	Result	FCC Section(s)	ANSI C63.10 Section(s)	Comments
Powerline Conducted Emissions	Pass	15.207	6.2	
Duty Cycle	Pass	KDB 558074 -6.0	11.6	
DTS Bandwidth (6 dB)	Pass	15.247(a)(2), KDB 558074 -8.2	11.8.2	
Occupied Bandwidth (99%)	Pass	KDB 558074 -2.1	6.9.3	
Output Power	Pass	15.247(b)(3), KDB 558074 -8.3.1	11.9.2.2.4	
Equivalent Isotropic Radiated Power	Pass	15.247(b)(3), KDB 558074 -8.3.1	11.9.2.2.4	
Power Spectral Density	Pass	15.247(e), KDB 558074 -8.4	11.10.2	
Band Edge Compliance	Pass	15.247(d), KDB 558074 -8.5	11.11	
Spurious Conducted Emissions	Pass	15.247(d), KDB 558074 -8.5	11.11	
Radiated Band Edge Emissions	Pass	15.247(d), KDB 558074 -8.6, 8.7	11.12.1, 11.13.2, 6.6	
Spurious Radiated Emissions	Pass	15.247(d), KDB 558074 -8.6, 8.7	11.12.1, 11.13.2, 6.4, 6.5, 6.6	

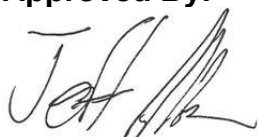
Deviations From Test Standards

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:



Jeff Alcock, Senior EMC Test Engineer

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.

REVISION HISTORY

Revision Number	Description	Date (yyyy-mm-dd)	Page Number
01	Added Powerline Conducted Emissions data	2025-11-06	15-19
	Updated last day of testing		3, 11, 14
	Added Configuration		13

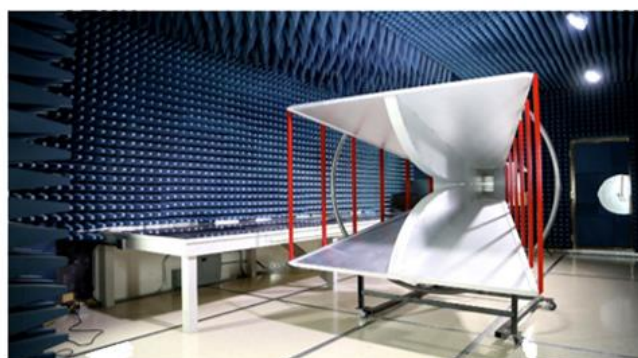
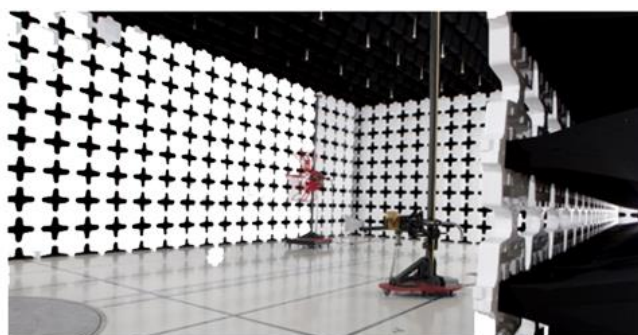
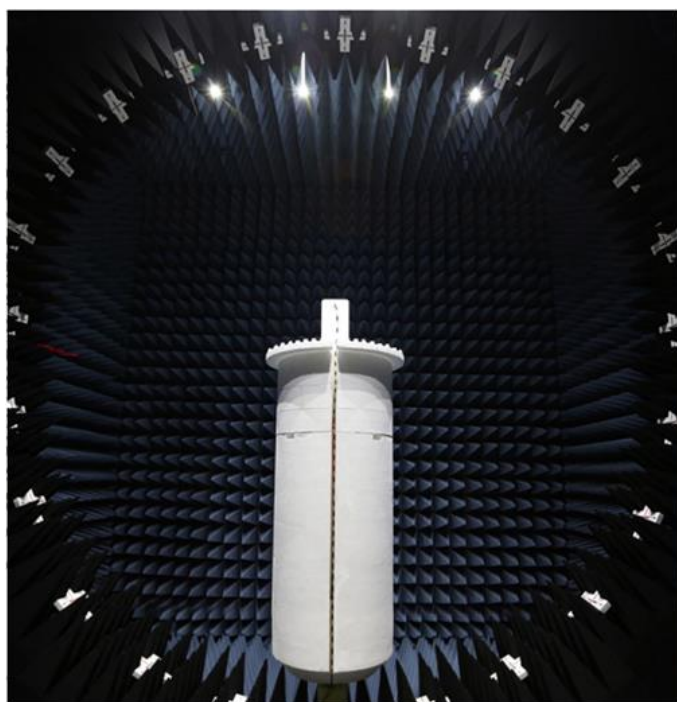
FACILITIES

Testing was performed at the following location(s)

	Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
☐	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
☐	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

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) 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 Location: Minneapolis

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)	5.3 dB	-5.3 dB
AC Powerline Conducted Emissions (dB)	3.2 dB	-3.2 dB

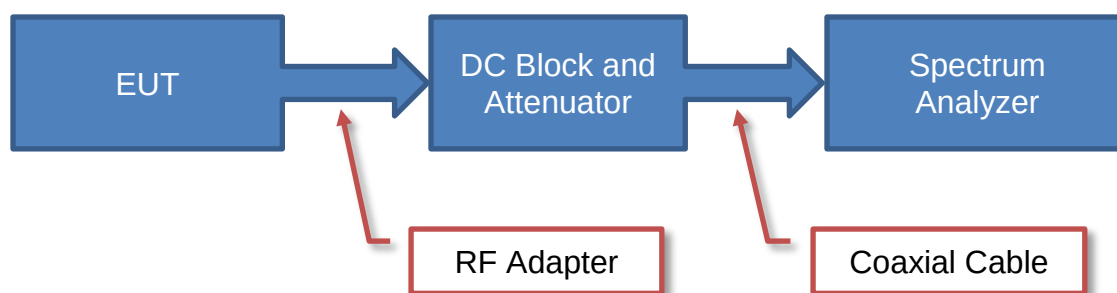
TEST SETUP BLOCK DIAGRAMS

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.

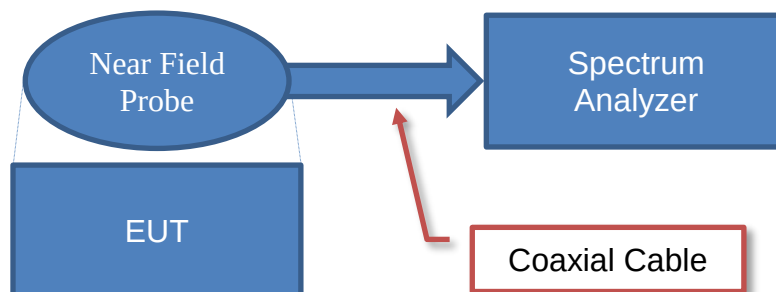
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

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

Near Field Test Fixture Measurements

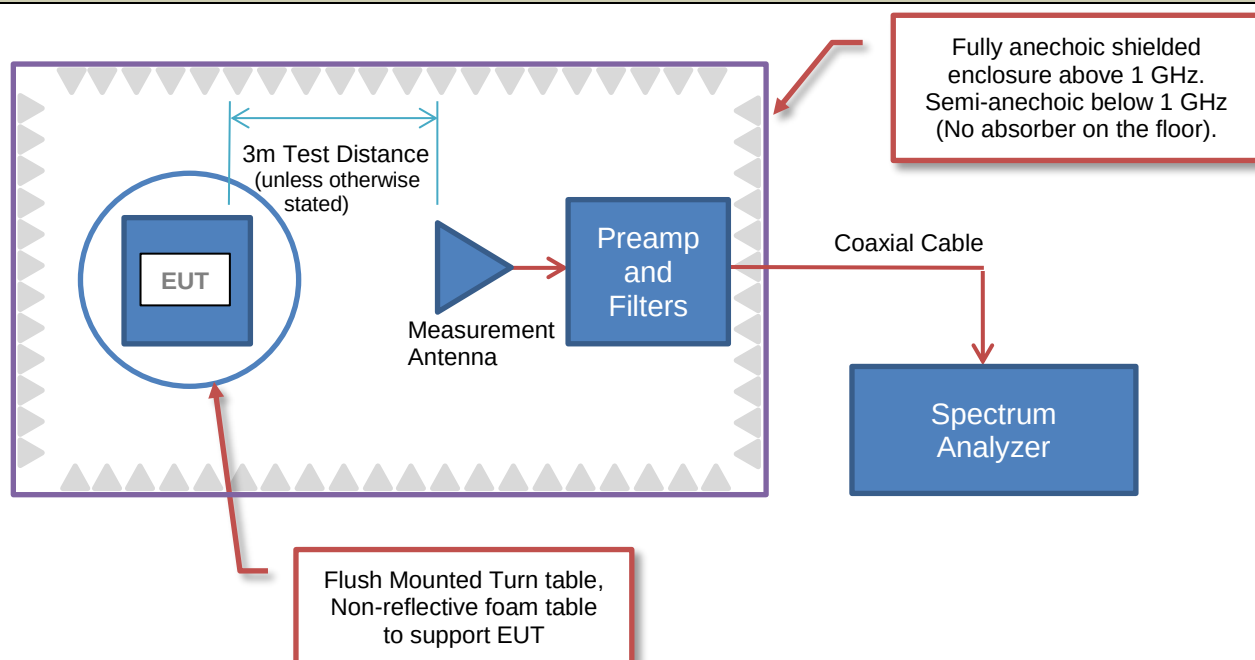


Sample Calculation (logarithmic units)

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

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

Measured Level (Amplitude)	Factor			Distance Adjustment Factor	External Attenuation	Field Strength
	Antenna Factor	Cable Factor	Amplifier Gain			
42.6	28.6	3.1	40.8	0.0	0.0	33.5

Conducted Emissions:

Measured Level (Amplitude)	Factor		External Attenuation	Adjusted Level
	Transducer Factor	Cable Factor		
26.7	0.3	0.1	20.0	47.1

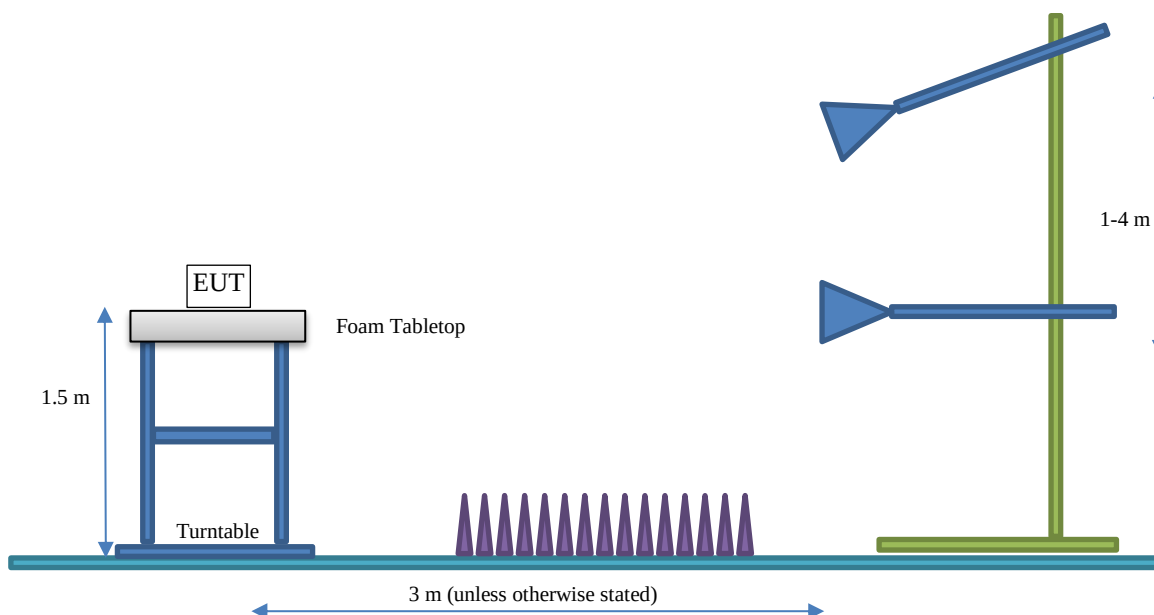
Radiated Power (ERP/EIRP) – Substitution Method:

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:	Fortell Research Inc.
Address:	379 W Broadway
City, State, Zip:	New York City, NY 10012
Test Requested By:	John Becker
EUT:	Fortell AI Hearing Aid, Right
First Date of Test:	September 9, 2025
Last Date of Test:	November 6, 2025
Receipt Date of Samples:	September 9, 2025
Equipment Design Stage:	Production Equivalent
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
Right Hearing aid with BTLE
Testing Objective:
To demonstrate compliance of the Bluetooth radio to FCC 15.247 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)
Planar Inverted F-Type	Fortell Research Inc	2400-2483.5	-4.54

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

- ☒ Test software settings
- ☐ Rated power settings

SETTINGS FOR ALL TESTS IN THIS REPORT

Modulation Types / Data Rates	Type	Channel	Position	Frequency (MHz)	Power Setting
BLE GFSK 1 Mbps, 2 Mbps	DTS	37	Low Channel	2402	-4
		18	Mid Channel	2442	-4
		39	High Channel	2480	-4

CONFIGURATIONS

Configuration CHRM0004-12

Software/Firmware Running During Test	
Description	Version
Firmware	R17.3

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Right Hearing Aid	Fortell Research Inc.	FR1	7DK3GJF

Configuration CHRM0004-13

Software/Firmware Running During Test	
Description	Version
Firmware	R17.3

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Right Hearing Aid - Conducted Unit	Fortell Research Inc.	FR1	7DCN3GG

Configuration CHRM0004-18

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Right Hearing Aid	Fortell Research Inc.	FR1	7D1T8X7

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Charging Case	Fortell Research Inc.	FR1	WFGCTFD
Power Supply	Phihong USA Corp.	AQ15A-05013	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable	No	1.2m	No	Power Supply	Charging Case

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2025-09-09	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2025-09-09	Radiated Band Edge Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2025-09-10	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2025-09-10	Occupied Bandwidth (99%)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	2025-09-10	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2025-09-10	Equivalent Isotropic Radiated Power (EIRP)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	2025-09-10	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
8	2025-09-10	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
9	2025-09-10	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
10	2025-09-11	DTS Bandwidth (6dB)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.
11	2025-10-02	Radiated Band Edge Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.
12	2025-11-06	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Gauss Instruments	TDEMI 30M	ARS	2025-05-20	2026-05-20
Cable - Conducted Cable Assembly	Northwest EMC	MNC, HGN, TYK, VAE	MNCA	2025-02-14	2026-02-14
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	2025-03-30	2026-03-30

CONFIGURATIONS INVESTIGATED

CHRM0004-18

MODES INVESTIGATED

Hearing aid charging, Transmitting BLE on Mid Channel (2442 MHz) with a 1 Mbps data rate at the highest output power. This was determined to be the worst case data rate for mid channel from the output power data.

POWERLINE CONDUCTED EMISSIONS

EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0004
Serial Number:	7D1T8X7	Date:	2025-11-06
Customer:	Chromatic, Inc.	Temperature:	23.7°C
Attendees:	John Becker	Relative Humidity:	29.2%
Customer Project:	None	Bar. Pressure (PMSL):	1016 mb
Tested By:	William Hoffa	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CHRM0004-18

TEST PARAMETERS

Run #:	14	Line:	High Line	Add. Ext. Attenuation (dB):	0
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COMMENTS

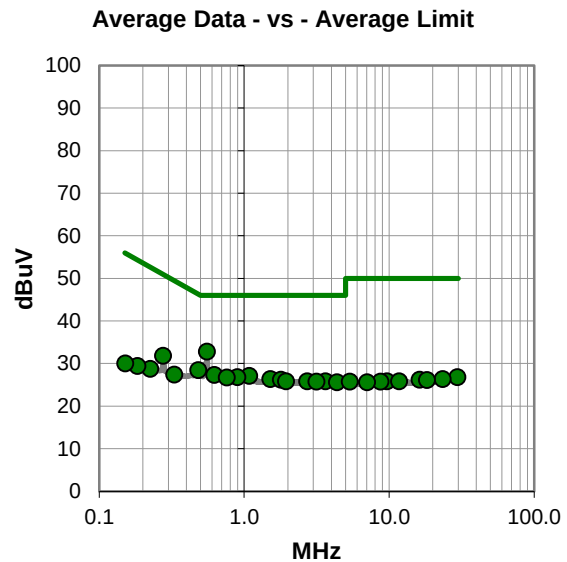
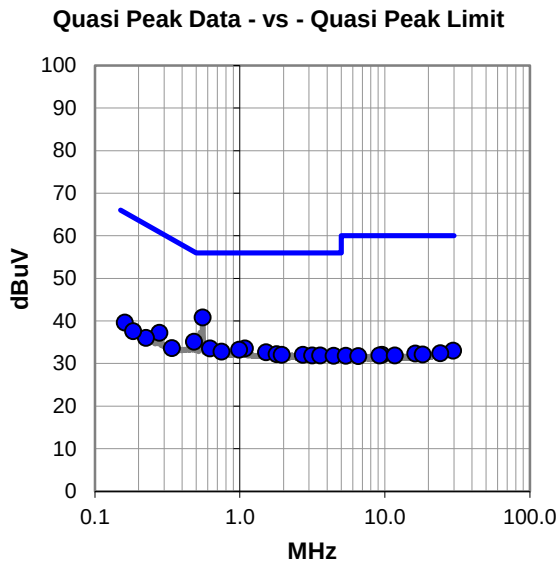
None

EUT OPERATING MODES

Hearing aid charging, Transmitting BLE on Mid Channel (2442 MHz) with a 1 Mbps data rate at the highest output power. This was determined to be the worst case data rate for mid channel from the output power data.

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #14

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.554	20.1	20.7	40.8	56.0	-15.2
0.483	14.4	20.7	35.1	56.3	-21.2
0.623	12.7	20.8	33.5	56.0	-22.5
1.085	12.8	20.7	33.5	56.0	-22.5
0.991	12.5	20.7	33.2	56.0	-22.8
0.747	12.0	20.8	32.8	56.0	-23.2
1.519	11.9	20.7	32.6	56.0	-23.4
0.278	16.6	20.6	37.2	60.9	-23.7
1.798	11.5	20.7	32.2	56.0	-23.8
1.950	11.3	20.7	32.0	56.0	-24.0
2.726	11.3	20.7	32.0	56.0	-24.0
3.160	11.1	20.8	31.9	56.0	-24.1
3.580	11.0	20.9	31.9	56.0	-24.1
4.434	10.9	20.9	31.8	56.0	-24.2
0.339	13.0	20.6	33.6	59.2	-25.6
0.161	18.6	21.0	39.6	65.4	-25.8
0.225	15.2	20.8	36.0	62.6	-26.6
0.184	16.6	21.0	37.6	64.3	-26.7
29.613	10.1	22.9	33.0	60.0	-27.0
24.226	10.1	22.3	32.4	60.0	-27.6
16.227	10.6	21.7	32.3	60.0	-27.7
18.243	10.3	21.8	32.1	60.0	-27.9
9.583	10.8	21.2	32.0	60.0	-28.0
9.193	10.8	21.1	31.9	60.0	-28.1
11.729	10.5	21.4	31.9	60.0	-28.1

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.554	12.1	20.7	32.8	46.0	-13.2
0.483	7.7	20.7	28.4	46.3	-17.9
0.623	6.5	20.8	27.3	46.0	-18.7
1.085	6.4	20.7	27.1	46.0	-18.9
0.277	11.2	20.6	31.8	50.9	-19.1
0.898	6.1	20.7	26.8	46.0	-19.2
0.760	5.9	20.8	26.7	46.0	-19.3
1.519	5.6	20.7	26.3	46.0	-19.7
1.795	5.5	20.7	26.2	46.0	-19.8
1.950	5.1	20.7	25.8	46.0	-20.2
2.724	5.1	20.7	25.8	46.0	-20.2
3.647	4.9	20.9	25.8	46.0	-20.2
3.159	4.9	20.8	25.7	46.0	-20.3
4.366	4.7	20.9	25.6	46.0	-20.4
0.330	6.8	20.6	27.4	49.5	-22.1
29.612	3.9	22.9	26.8	50.0	-23.2
23.437	4.1	22.2	26.3	50.0	-23.7
16.227	4.5	21.7	26.2	50.0	-23.8
0.225	7.9	20.8	28.7	52.6	-23.9
18.243	4.3	21.8	26.1	50.0	-23.9
9.654	4.6	21.2	25.8	50.0	-24.2
11.752	4.4	21.4	25.8	50.0	-24.2
5.358	4.8	20.9	25.7	50.0	-24.3
8.757	4.6	21.1	25.7	50.0	-24.3
7.065	4.6	21.0	25.6	50.0	-24.4

CONCLUSION

Pass

William Hoffa

Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0004
Serial Number:	7D1T8X7	Date:	2025-11-06
Customer:	Chromatic, Inc.	Temperature:	23.7°C
Attendees:	John Becker	Relative Humidity:	29.2%
Customer Project:	None	Bar. Pressure (PMSL):	1016 mb
Tested By:	William Hoffa	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CHRM0004-18

TEST PARAMETERS

Run #:	15	Line:	Neutral	Add. Ext. Attenuation (dB):	0
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COMMENTS

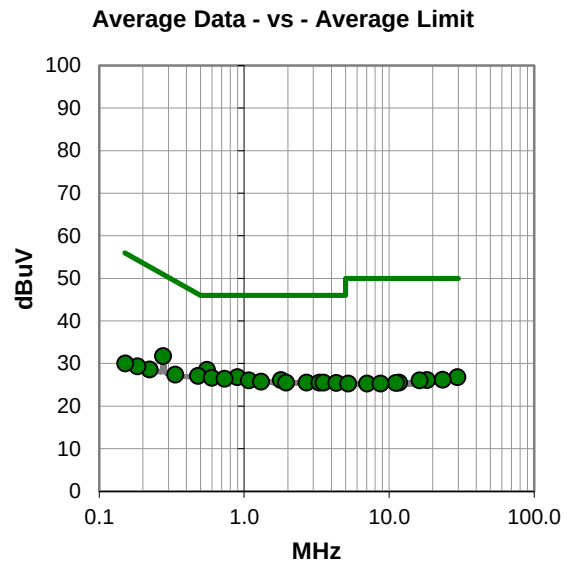
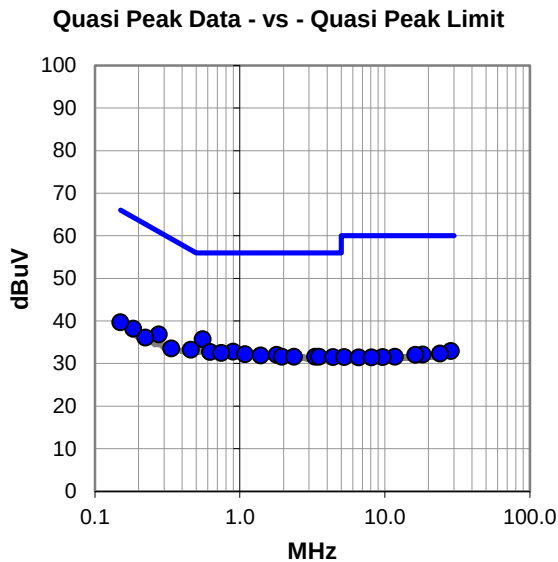
None

EUT OPERATING MODES

Hearing aid charging, Transmitting BLE on Mid Channel (2442 MHz) with a 1 Mbps data rate at the highest output power. This was determined to be the worst case data rate for mid channel from the output power data.

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #15

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.554	15.0	20.7	35.7	56.0	-20.3
0.898	12.1	20.7	32.8	56.0	-23.2
0.621	11.9	20.8	32.7	56.0	-23.3
0.458	12.5	20.7	33.2	56.7	-23.5
0.745	11.7	20.8	32.5	56.0	-23.5
1.084	11.5	20.7	32.2	56.0	-23.8
1.795	11.3	20.7	32.0	56.0	-24.0
0.277	16.2	20.6	36.8	60.9	-24.1
1.392	11.2	20.7	31.9	56.0	-24.1
1.943	10.9	20.7	31.6	56.0	-24.4
2.367	10.9	20.7	31.6	56.0	-24.4
3.304	10.7	20.9	31.6	56.0	-24.4
3.508	10.7	20.9	31.6	56.0	-24.4
4.402	10.6	20.9	31.5	56.0	-24.5
0.336	12.9	20.6	33.5	59.3	-25.8
0.184	17.2	21.0	38.2	64.3	-26.1
0.150	18.6	21.1	39.7	66.0	-26.3
0.223	15.3	20.8	36.1	62.7	-26.6
28.606	10.2	22.7	32.9	60.0	-27.1
24.043	10.0	22.3	32.3	60.0	-27.7
18.243	10.3	21.8	32.1	60.0	-27.9
16.229	10.3	21.7	32.0	60.0	-28.0
11.728	10.2	21.4	31.6	60.0	-28.4
5.263	10.6	20.9	31.5	60.0	-28.5
9.689	10.3	21.2	31.5	60.0	-28.5

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.553	7.8	20.7	28.5	46.0	-17.5
0.277	11.1	20.6	31.7	50.9	-19.2
0.481	6.4	20.7	27.1	46.3	-19.2
0.898	6.1	20.7	26.8	46.0	-19.2
0.597	5.9	20.7	26.6	46.0	-19.4
0.733	5.6	20.8	26.4	46.0	-19.6
1.796	5.4	20.7	26.1	46.0	-19.9
1.078	5.3	20.7	26.0	46.0	-20.0
1.311	5.0	20.7	25.7	46.0	-20.3
1.943	4.8	20.7	25.5	46.0	-20.5
2.694	4.8	20.7	25.5	46.0	-20.5
3.305	4.6	20.9	25.5	46.0	-20.5
3.525	4.6	20.9	25.5	46.0	-20.5
4.340	4.5	20.9	25.4	46.0	-20.6
0.335	6.8	20.6	27.4	49.3	-21.9
29.632	3.9	22.9	26.8	50.0	-23.2
23.435	4.0	22.2	26.2	50.0	-23.8
18.243	4.3	21.8	26.1	50.0	-23.9
16.227	4.3	21.7	26.0	50.0	-24.0
0.223	7.8	20.8	28.6	52.7	-24.1
11.726	4.1	21.4	25.5	50.0	-24.5
11.151	4.1	21.3	25.4	50.0	-24.6
5.217	4.4	20.9	25.3	50.0	-24.7
7.070	4.3	21.0	25.3	50.0	-24.7
8.746	4.2	21.1	25.3	50.0	-24.7

CONCLUSION

Pass

William Hoffa

Tested By

DUTY CYCLE (1 MBPS)

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 in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Double Ridge	ETS Lindgren	3115	AJQ	2025-02-05	2027-02-05
Cable	Element	Double Ridge Guide Horn Cables	MNV	2024-09-10	2025-09-10
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2025-02-01	2026-02-01
Attenuator	Coaxicom	3910-20	AXY	2024-09-10	2025-09-10
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	2025-05-23	2026-05-23

DUTY CYCLE (1 MBPS)

EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0004
Serial Number:	7DK3GJF	Date:	2025-09-09
Customer:	Fortell Research Inc.	Temperature:	22.5°C
Attendees:	John Becker	Relative Humidity:	54.5%
Customer Project:	None	Bar. Pressure (PMSL):	1016 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN09
Power:	Battery	Configuration:	CHRM0004-12

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

N/A

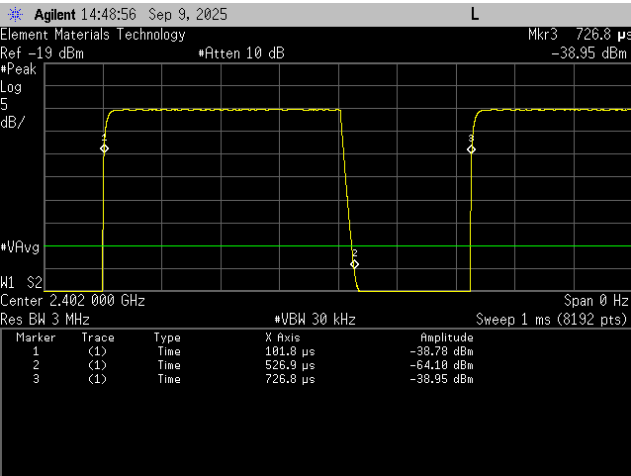


Tested By

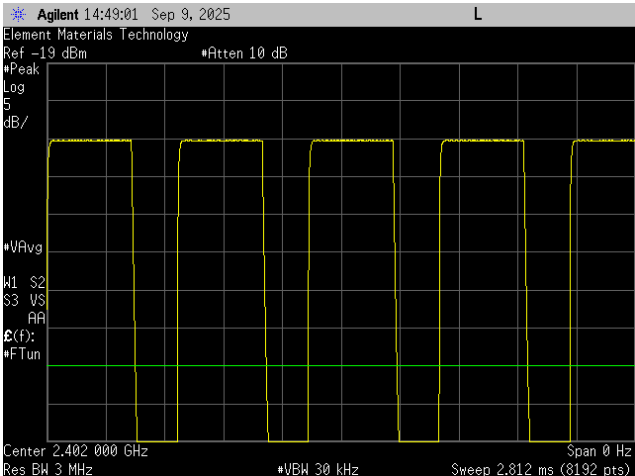
TEST RESULTS

	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A ()	Results
BLE/GFSK 1 Mbps						
Low Channel, 2402 MHz	425.1 us	625 us	1.0	68.0	N/A	N/A
	N/A	N/A	5.0	N/A	N/A	N/A
High Channel, 2480 MHz	423.5 us	625.1 us	1.0	67.7	N/A	N/A
	N/A	N/A	5.0	N/A	N/A	N/A

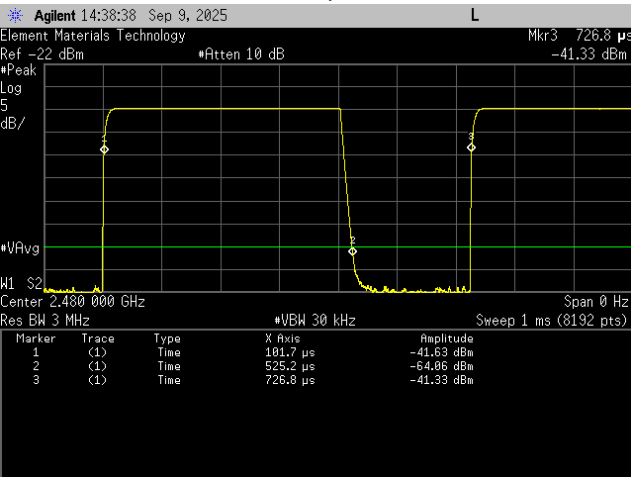
DUTY CYCLE (1 MBPS)



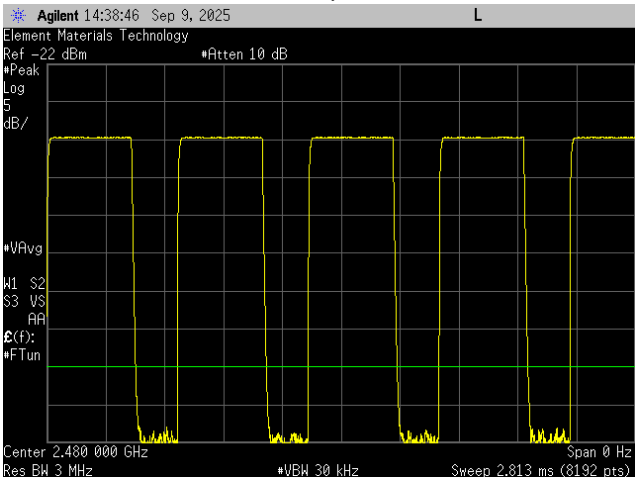
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 1 Mbps
High Channel, 2480 MHz

DUTY CYCLE (2 MBPS)

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 Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

DUTY CYCLE (2 MBPS)

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.6°C
Attendees:	John Becker	Relative Humidity:	55.1%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

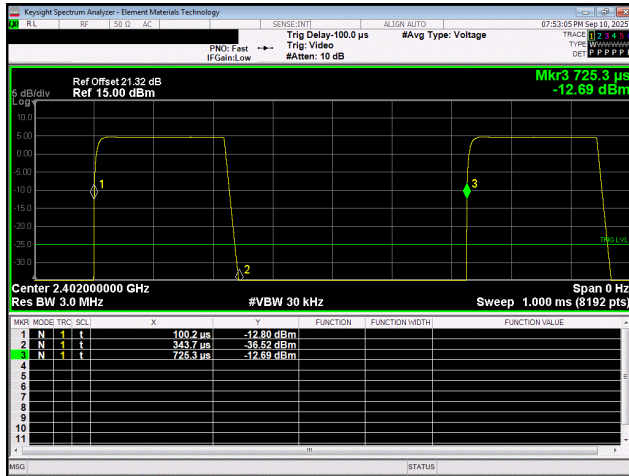


Tested By

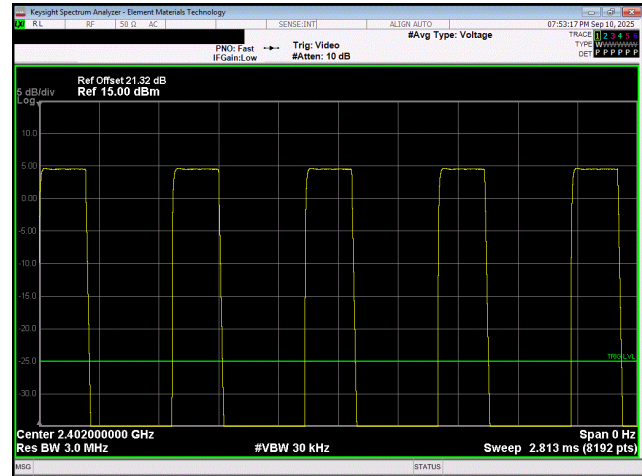
TEST RESULTS

	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A ()	Results
BLE/GFSK 2 Mbps						
Low Channel, 2402 MHz	243.5 us	625.1 us	1	39	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2442 MHz	242.9 us	625.1 us	1	38.9	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz	242.9 us	625 us	1	38.9	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A

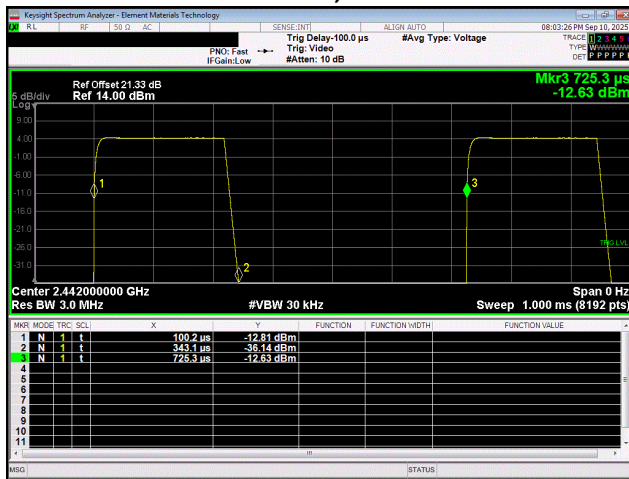
DUTY CYCLE (2 MBPS)



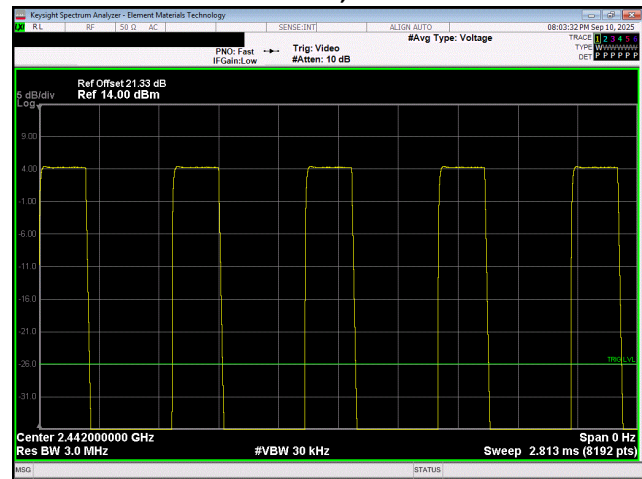
BLE/GFSK 2 Mbps
Low Channel, 2402 MHz



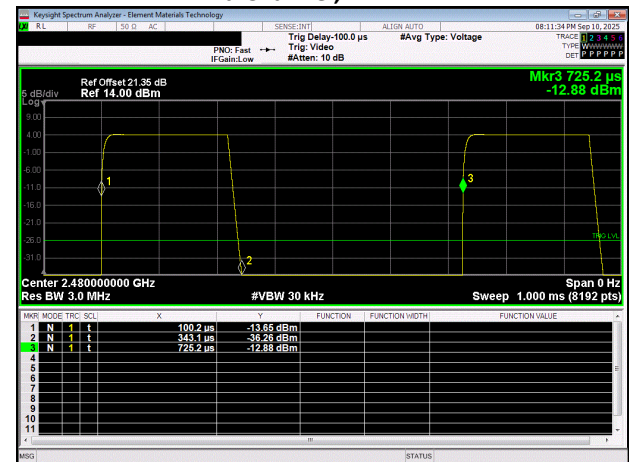
BLE/GFSK 2 Mbps
Low Channel, 2402 MHz



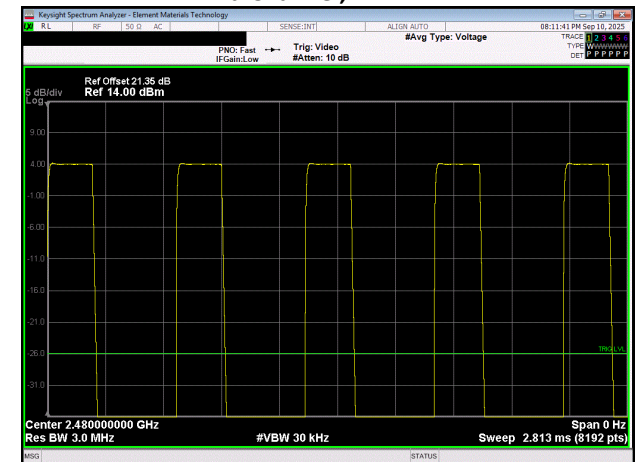
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 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 the following analyzer settings:

Detector: Peak

Sweep time: Auto

Resolution Bandwidth: 1% to 5% of the OBW but not less than 100 kHz

Video Bandwidth: $\geq 3 * RBW$

Trace: Max Hold

Span: Large enough to capture all products of the modulation process, including the emission skirts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

DTS BANDWIDTH (6 dB)

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-11
Customer:	Fortell Research Inc.	Temperature:	23°C
Attendees:	John Becker	Relative Humidity:	48.9%
Customer Project:	None	Bar. Pressure (PMSL):	1024 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

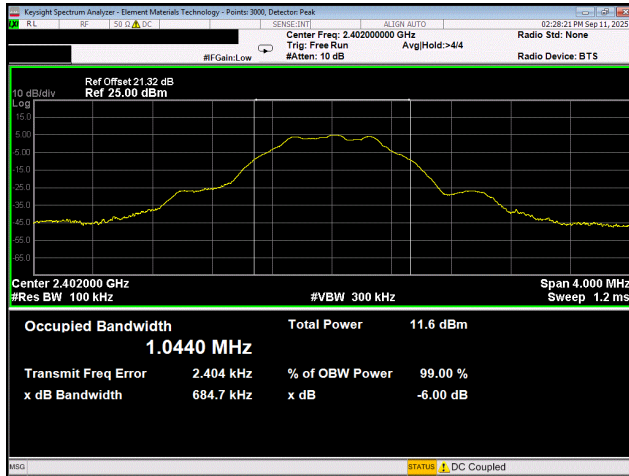


Tested By

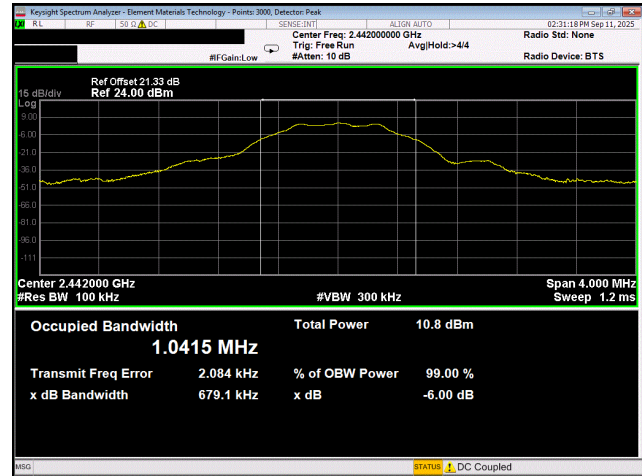
TEST RESULTS

		Value	Limit (≥)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	684.7 kHz	500 kHz	Pass
	Mid Channel, 2442 MHz	679.1 kHz	500 kHz	Pass
	High Channel, 2480 MHz	681.0 kHz	500 kHz	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	1.16 MHz	500 kHz	Pass
	Mid Channel, 2442 MHz	1.15 MHz	500 kHz	Pass
	High Channel, 2480 MHz	1.17 MHz	500 kHz	Pass

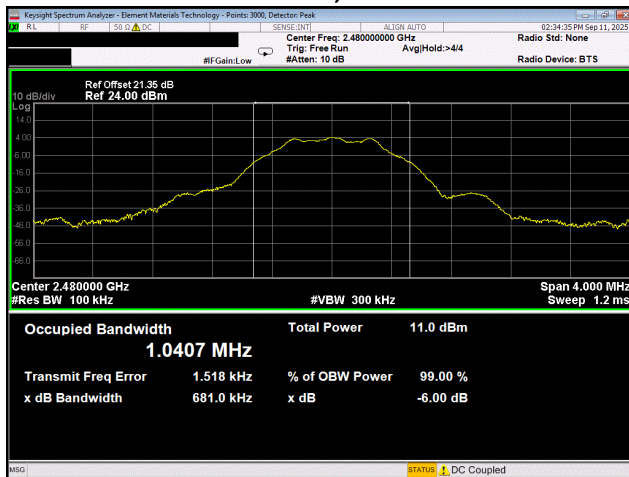
DTS BANDWIDTH (6 dB)



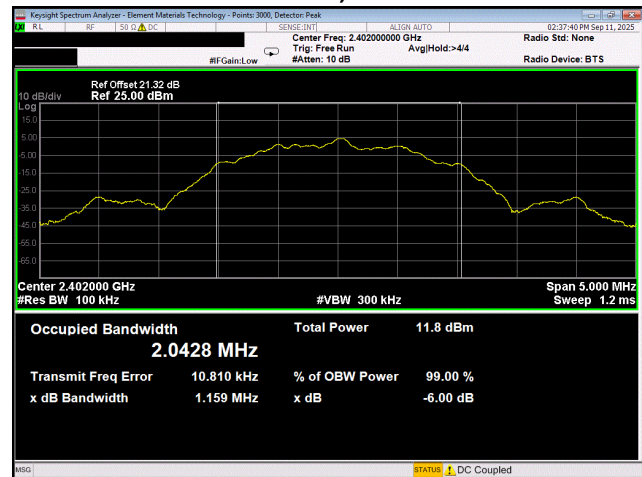
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



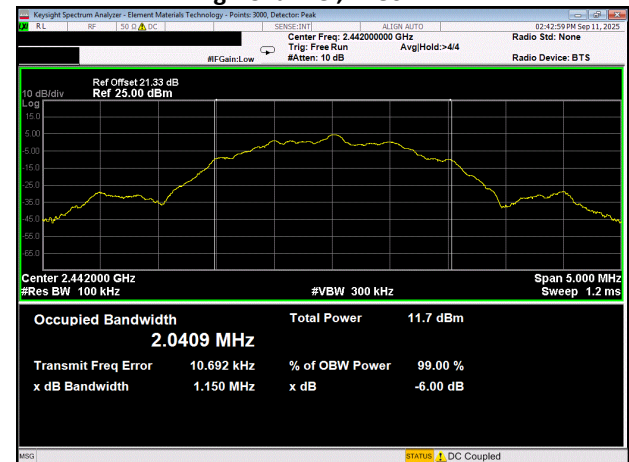
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



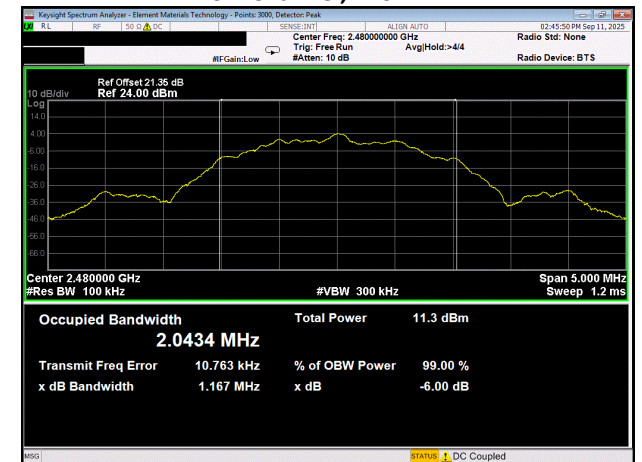
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



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 C63.10:2020, 6.9.3, the spectrum analyzer was configured as follows:

Sweep time: Auto

Resolution Bandwidth: 1% to 5% of the OBW

Video Bandwidth: $\geq 3 * RBW$

Trace: Max Hold

Span: Large enough to capture all products of the modulation process, including the emission skirts.

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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

OCCUPIED BANDWIDTH (99%)

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.7°C
Attendees:	John Becker	Relative Humidity:	55.3%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

N/A

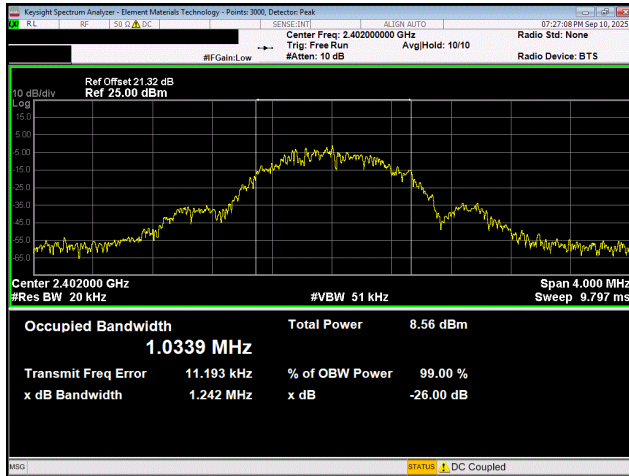


Tested By

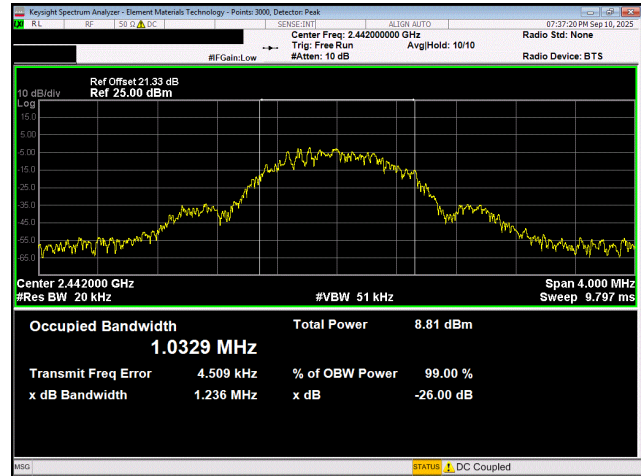
TEST RESULTS

		Value	Limit	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	1.034 MHz	N/A	N/A
	Mid Channel, 2442 MHz	1.033 MHz	N/A	N/A
	High Channel, 2480 MHz	1.025 MHz	N/A	N/A
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	2.023 MHz	N/A	N/A
	Mid Channel, 2442 MHz	2.021 MHz	N/A	N/A
	High Channel, 2480 MHz	2.022 MHz	N/A	N/A

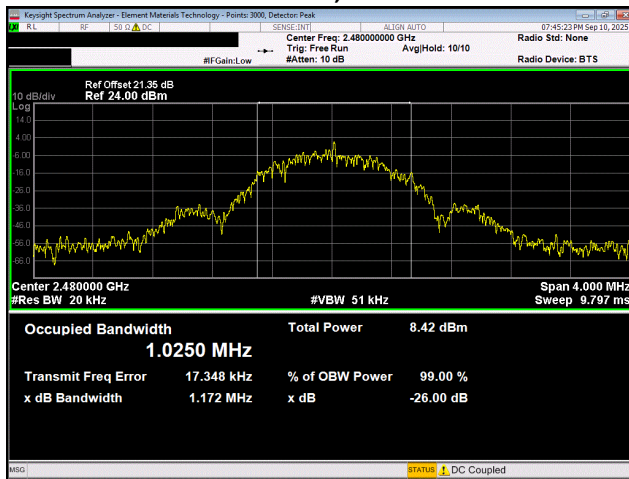
OCCUPIED BANDWIDTH (99%)



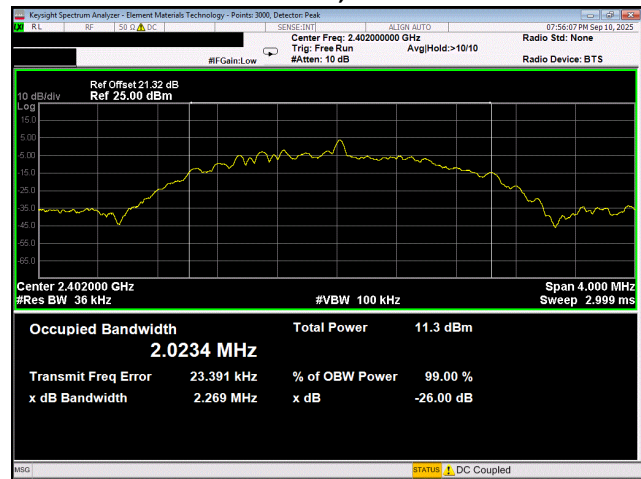
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



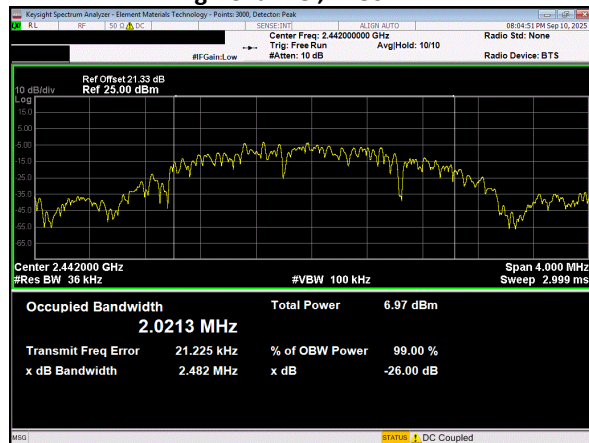
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



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 C63.10:2020 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Analyzer settings:

Detector: Peak

Sweep time: Auto

Resolution Bandwidth: $\geq$ DTS bandwidth

Video Bandwidth: $\geq 3 * RBW$

Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

OUTPUT POWER

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.7°C
Attendees:	John Becker	Relative Humidity:	55.1%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

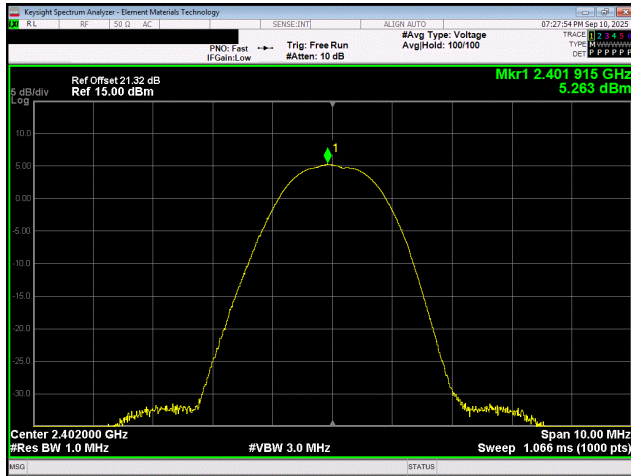


Tested By

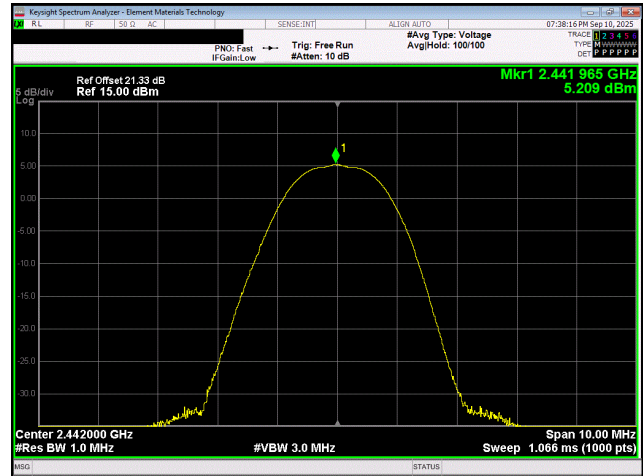
TEST RESULTS

		Out Pwr (dBm)	Limit (dBm)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	5.263	30	Pass
	Mid Channel, 2442 MHz	5.209	30	Pass
	High Channel, 2480 MHz	4.982	30	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	5.447	30	Pass
	Mid Channel, 2442 MHz	5.142	30	Pass
	High Channel, 2480 MHz	4.834	30	Pass

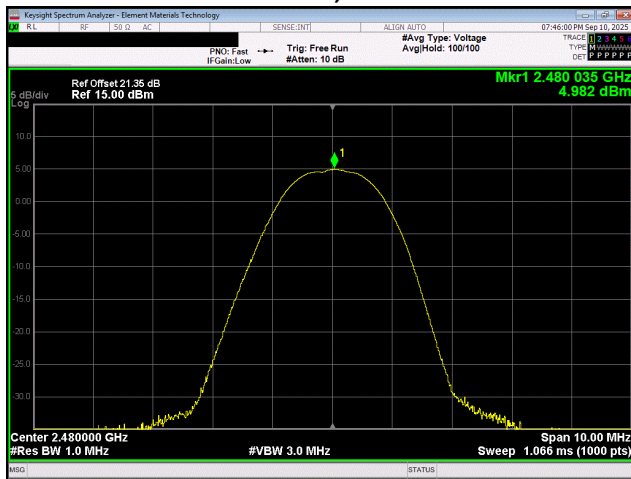
OUTPUT POWER



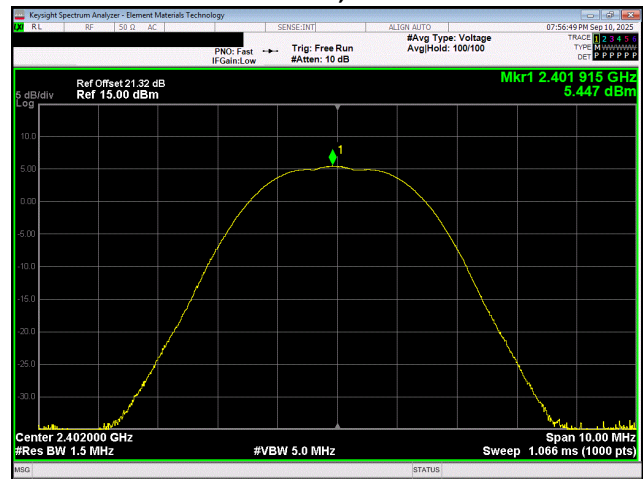
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



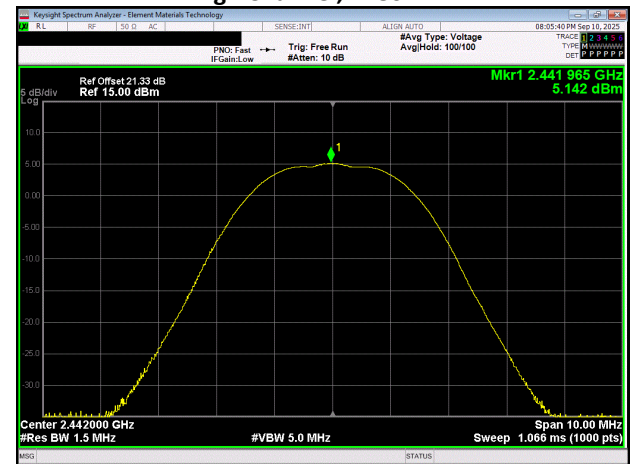
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



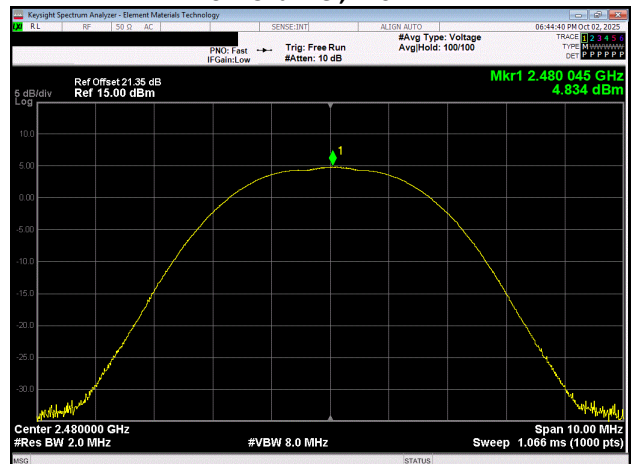
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



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 C63.10:2020 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)

Analyzer settings:

Detector: Peak
Sweep time: Auto
Resolution Bandwidth: $\geq$ DTS bandwidth
Video Bandwidth: $\geq 3 * \text{RBW}$
Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.1°C
Attendees:	John Becker	Relative Humidity:	53.6%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE/GFSK 1 Mbps						
	Low Channel, 2402 MHz	5.263	-4.54	0.723	36	Pass
	Mid Channel, 2442 MHz	5.209	-4.54	0.669	36	Pass
	High Channel, 2480 MHz	4.982	-4.54	0.442	36	Pass
BLE/GFSK 2 Mbps						
	Low Channel, 2402 MHz	5.447	-4.54	0.907	36	Pass
	Mid Channel, 2442 MHz	5.142	-4.54	0.602	36	Pass
	High Channel, 2480 MHz	4.834	-4.54	0.294	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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

POWER SPECTRAL DENSITY

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.5°C
Attendees:	John Becker	Relative Humidity:	53.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN09
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

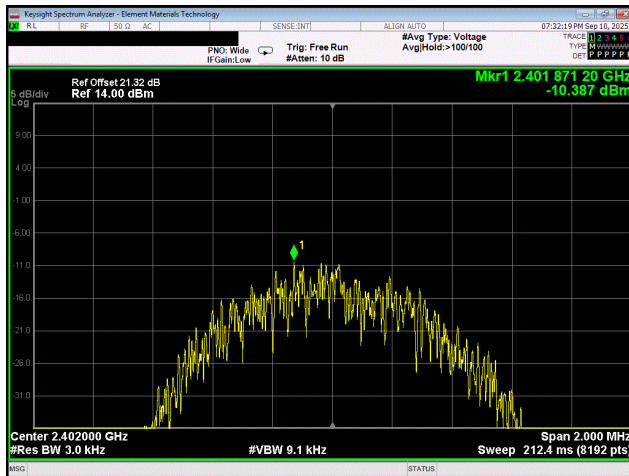


Tested By

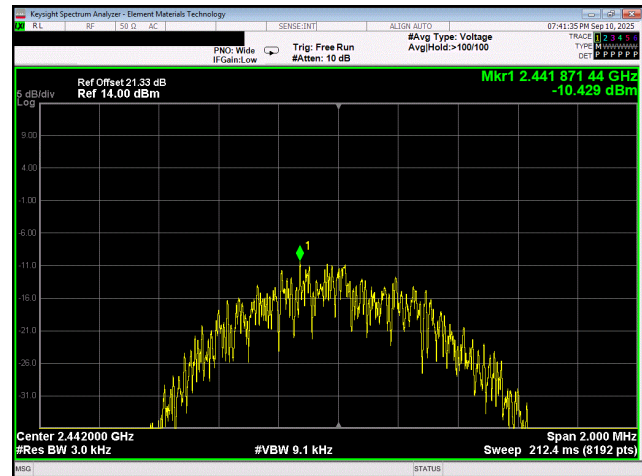
TEST RESULTS

		Value dBm/3kHz	Limit ≤ (dBm/3kHz)	Results
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	-10.387	8	Pass
	Mid Channel, 2442 MHz	-10.429	8	Pass
	High Channel, 2480 MHz	-10.653	8	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	-10.283	8	Pass
	Mid Channel, 2442 MHz	-10.738	8	Pass
	High Channel, 2480 MHz	-11.246	8	Pass

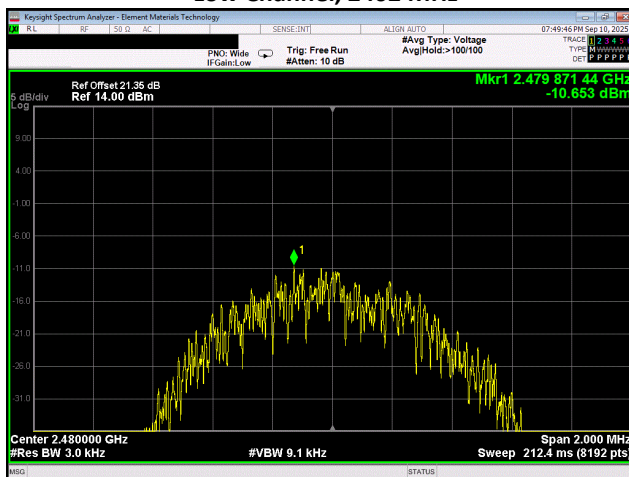
POWER SPECTRAL DENSITY



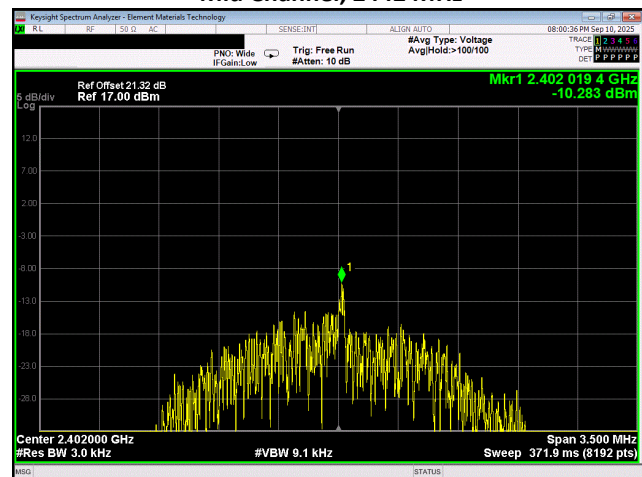
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



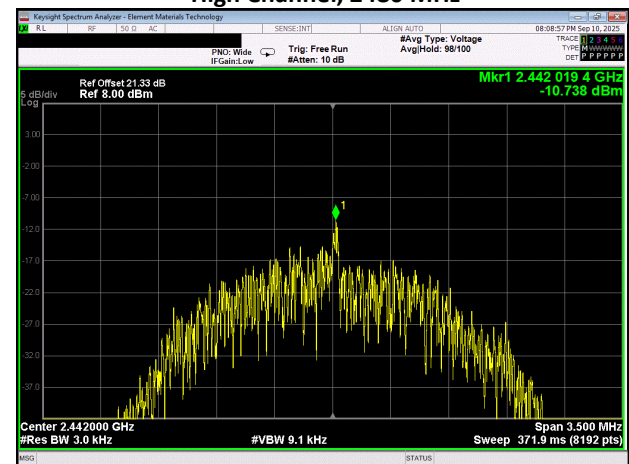
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



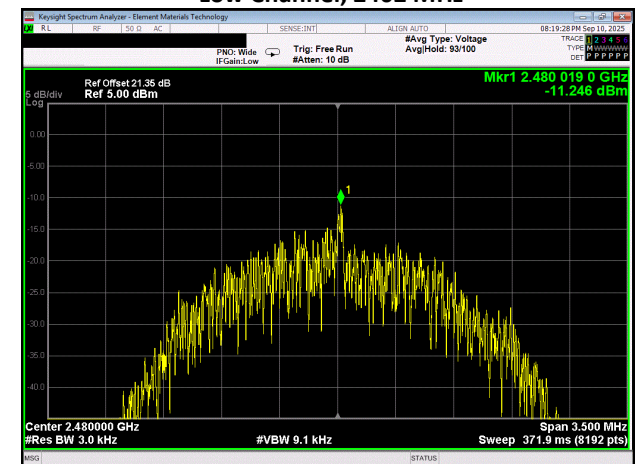
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



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

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

BAND EDGE COMPLIANCE



EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.5°C
Attendees:	John Becker	Relative Humidity:	54.6%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

Reference level offset includes measurement cable, 20dB attenuator, and DC block.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

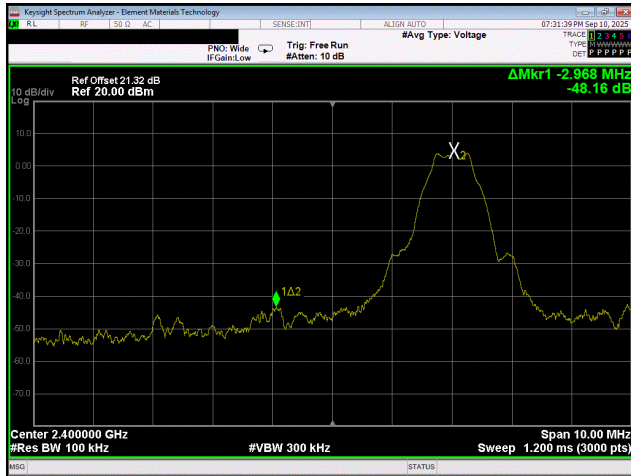
Pass

Tested By

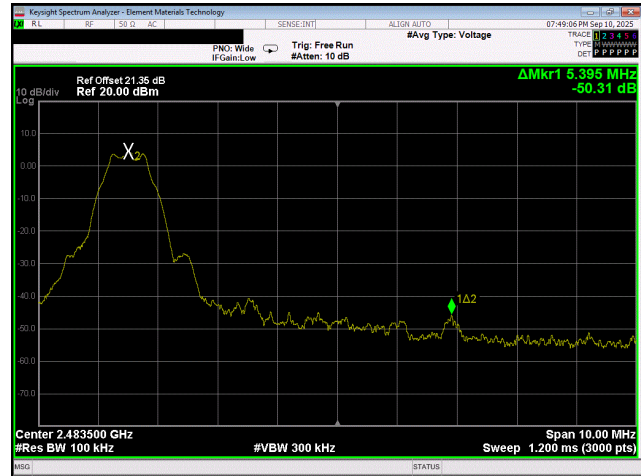
TEST RESULTS

		Value (dBc)	Limit ≤ (dBc)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	-48.16	-20	Pass
	High Channel, 2480 MHz	-50.31	-20	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	-33.4	-20	Pass
	High Channel, 2480 MHz	-50.92	-20	Pass

BAND EDGE COMPLIANCE



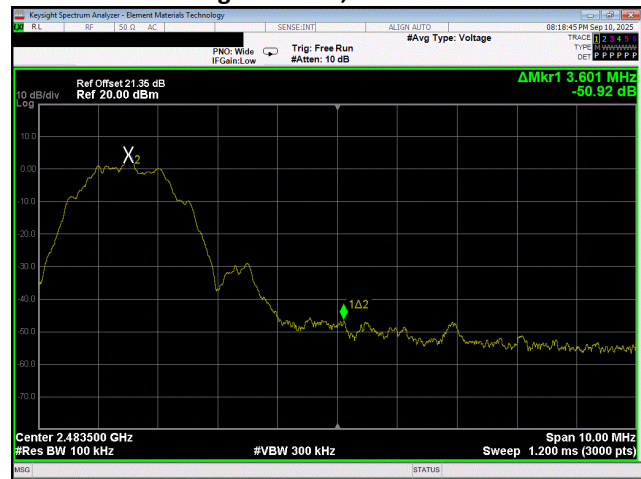
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
Low Channel, 2402 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

SPURIOUS CONDUCTED EMISSIONS

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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2025-02-03	2026-02-03

SPURIOUS CONDUCTED EMISSIONS

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DCN3GG	Date:	2025-09-10
Customer:	Fortell Research Inc.	Temperature:	22.6°C
Attendees:	John Becker	Relative Humidity:	55%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0004-13

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

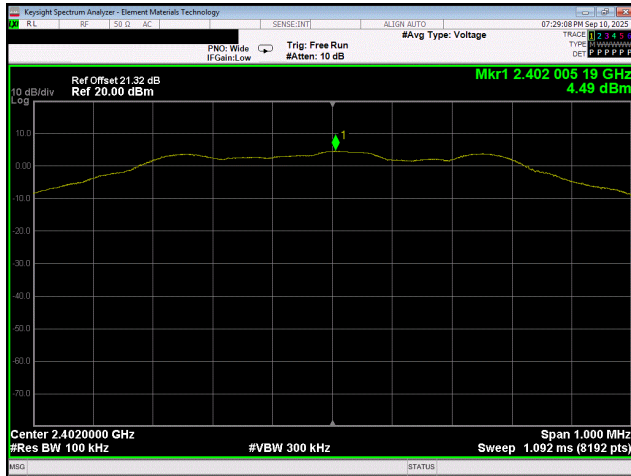


Tested By

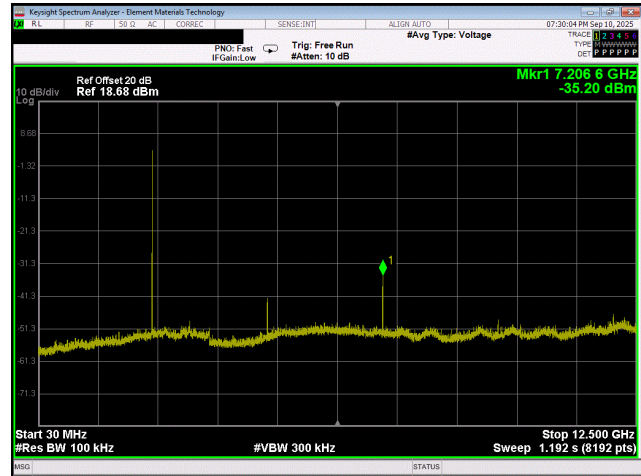
TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	Fundamental	2402.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7206.61	-39.69	-20	Pass
	12.5 GHz - 25 GHz	24888.6	-41.41	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7325.35	-37.64	-20	Pass
	12.5 GHz - 25 GHz	24884.02	-39.97	-20	Pass
High Channel, 2480 MHz	Fundamental	2480	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7439.53	-37.14	-20	Pass
	12.5 GHz - 25 GHz	24816.87	-41	-20	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	Fundamental	2402.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7206.61	-39.48	-20	Pass
	12.5 GHz - 25 GHz	24842.82	-41.77	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7325.35	-38.11	-20	Pass
	12.5 GHz - 25 GHz	24906.91	-41.09	-20	Pass
High Channel, 2480 MHz	Fundamental	2480.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	7438.01	-41.1	-20	Pass
	12.5 GHz - 25 GHz	24876.39	-40.3	-20	Pass

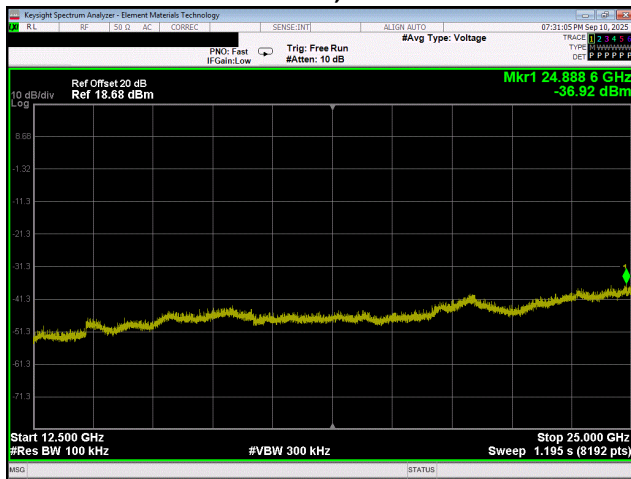
SPURIOUS CONDUCTED EMISSIONS



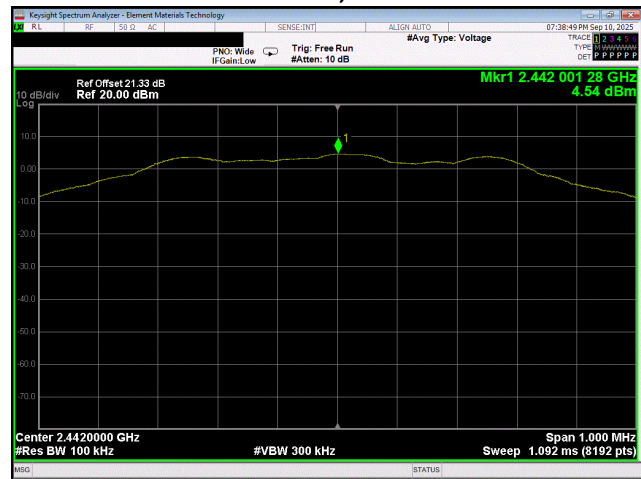
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



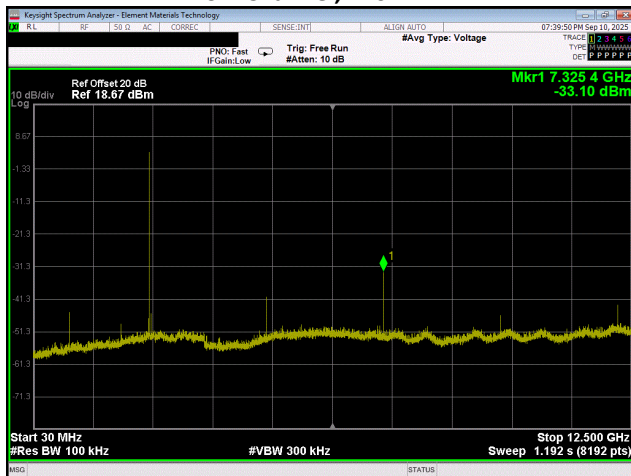
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



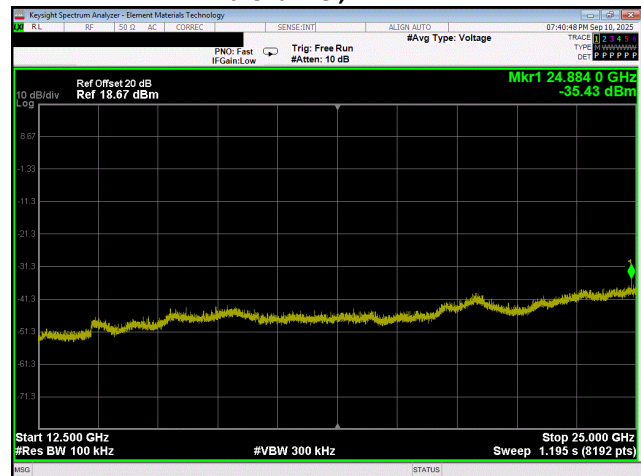
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

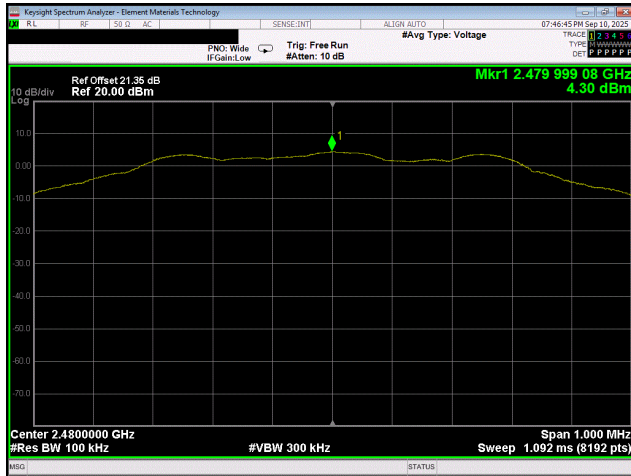


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

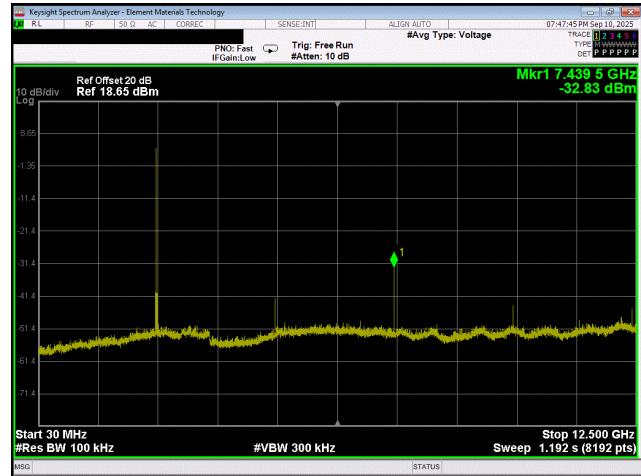


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

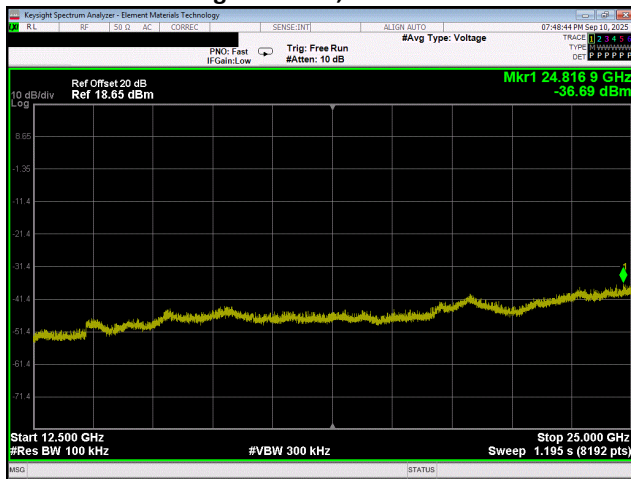
SPURIOUS CONDUCTED EMISSIONS



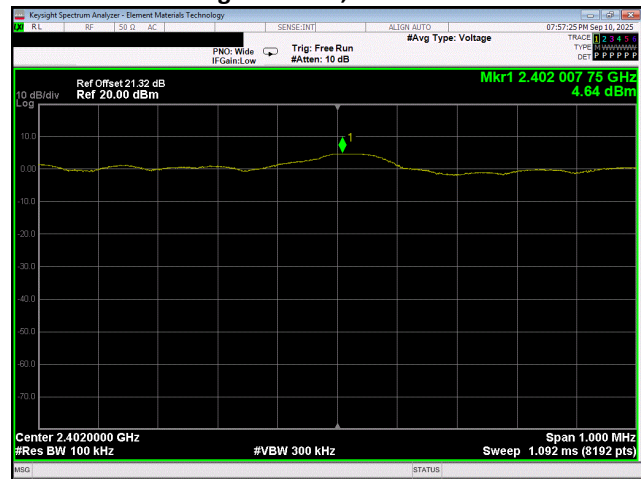
BLE/GFSK 1 Mbps
Low Channel, 2480 MHz



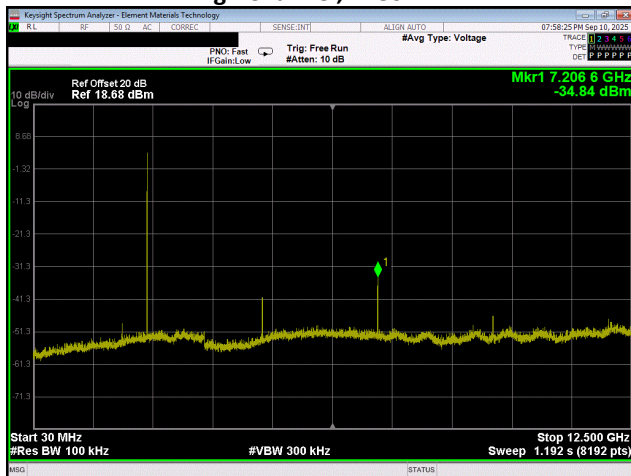
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



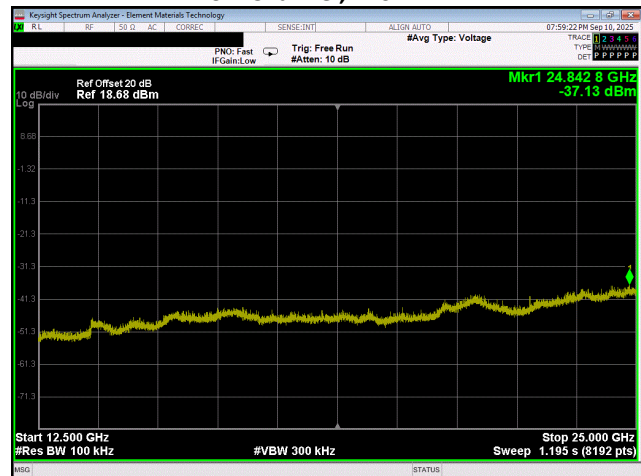
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

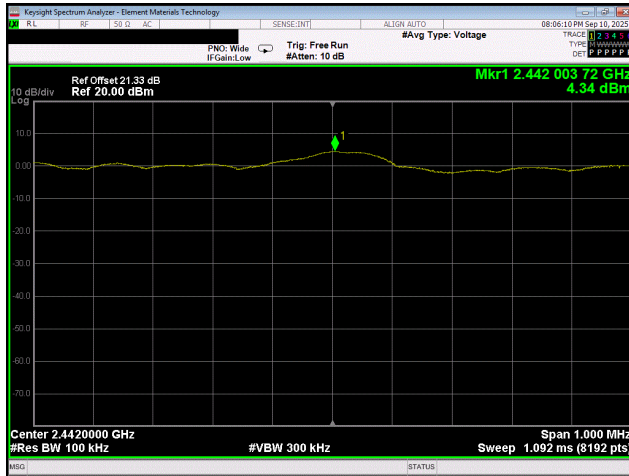


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

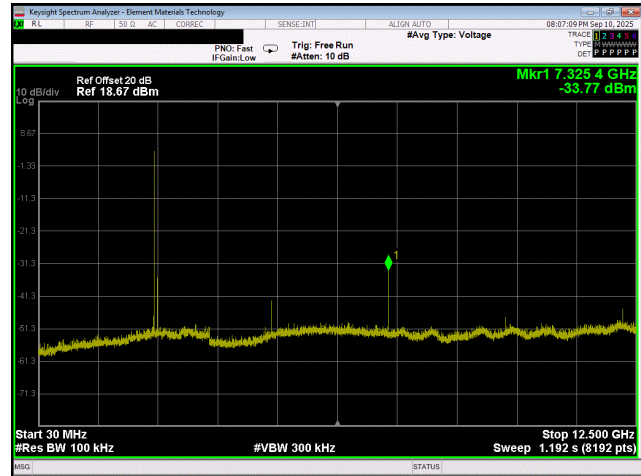


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

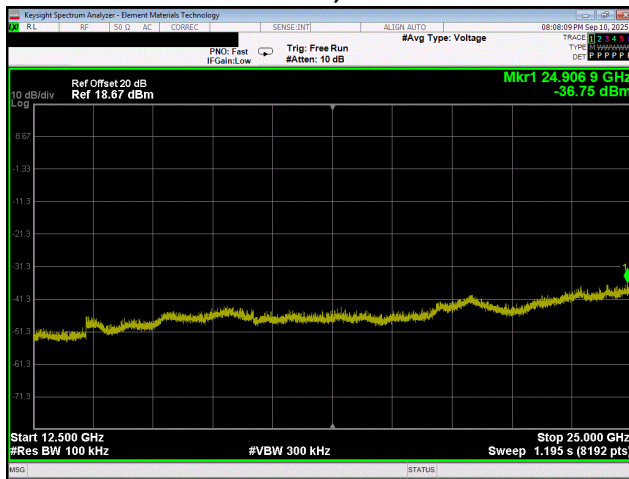
SPURIOUS CONDUCTED EMISSIONS



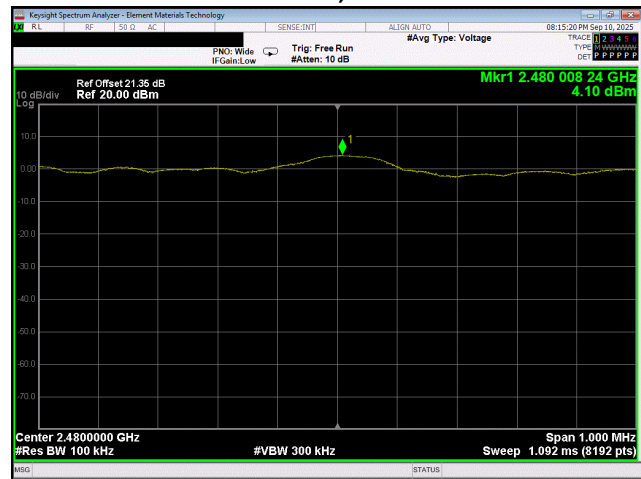
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



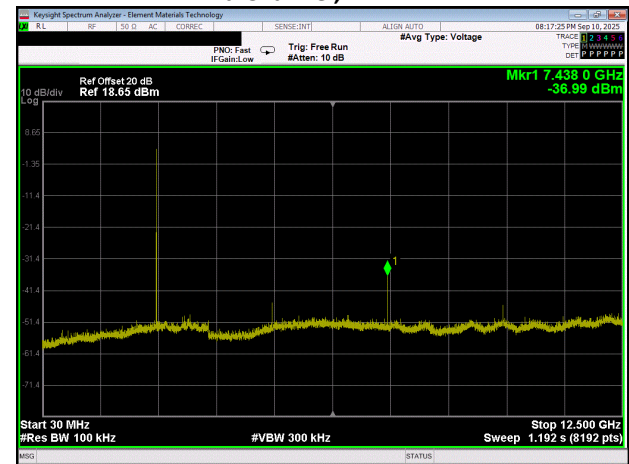
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



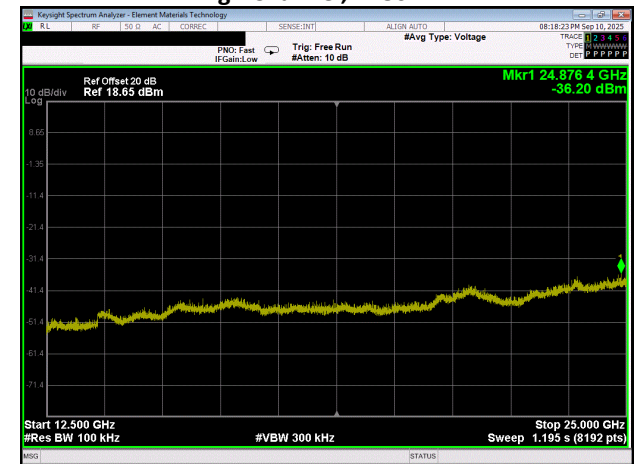
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

RADIATED BAND EDGE EMISSIONS (1 MBPS)

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 in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

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.

The 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 attenuation were used (if needed) 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:

PK = Peak Detector

AV = RMS Detector

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 $10 \cdot \log(1/dc)$.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Double Ridge	ETS Lindgren	3115	AJQ	2025-02-05	2027-02-05
Cable	Element	Double Ridge Guide Horn Cables	MNV	2024-09-10	2025-09-10
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2025-02-01	2026-02-01
Attenuator	Coaxicom	3910-20	AXY	2024-09-10	2025-09-10
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	2025-05-23	2026-05-23

RADIATED BAND EDGE EMISSIONS (1 MBPS)

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DK3GJF	Date:	2025-09-09
Customer:	Fortell Research Inc.	Temperature:	22.8°C
Attendees:	John Becker	Relative Humidity:	50.9%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mbar
Tested By:	Marcelo Aguayo	Job Site:	MN09
Power:	Battery	Configuration:	CHRM0004-12

COMMENTS

A duty cycle correction factor (DCCF) was applied to average measurements using the formula $DCCF=10*\log(1/\text{duty cycle})$. The test mode was 67.7% (1Mbps) and 38.9% (2 Mbps) which resulted in a 1.7dB (1Mbps) and 4.1dB (2Mbps) correction.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

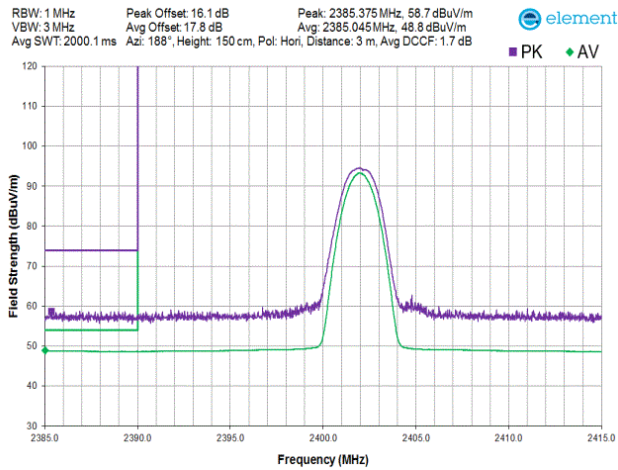


Tested By

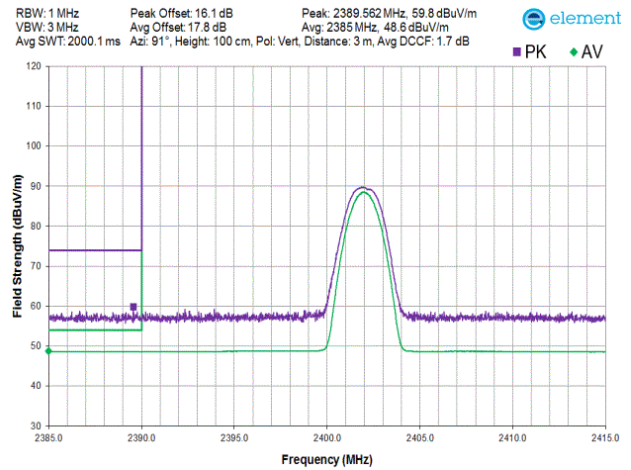
TEST RESULTS

	Frequency (MHz)	PK (dBuV/m) AV (dBuV/m)	PK Lim (dBuV/m) AV Lim (dBuV/m)	Worst Margin (dB)	Pol. (H/V)	EUT Orientation	Results
BLE/GFSK 1 Mbps							
Low Channel, 2402 MHz	2385.375	58.7	74.0	-5.2	H	Horizontal	Pass
	2385.045	48.8	54.0				
	2389.562	59.8	74.0	-5.4	V	Horizontal	Pass
	2385.000	48.6	54.0				
High Channel, 2480 MHz	2484.703	59.7	74.0	-4.7	H	Horizontal	Pass
	2483.503	49.3	54.0				
	2483.613	60.7	74.0	-4.3	V	Horizontal	Pass
	2483.508	49.7	54.0				
	2484.578	59.4	74.0	-4.7	H	Vertical	Pass
	2483.503	49.3	54.0				
	2483.728	60.5	74.0	-4.3	V	Vertical	Pass
	2483.503	49.7	54.0				
	2485.348	59.9	74.0	-4.8	H	on Side	Pass
	2483.503	49.2	54.0				
	2484.523	59.6	74.0	-4.6	V	on Side	Pass
	2483.503	49.4	54.0				

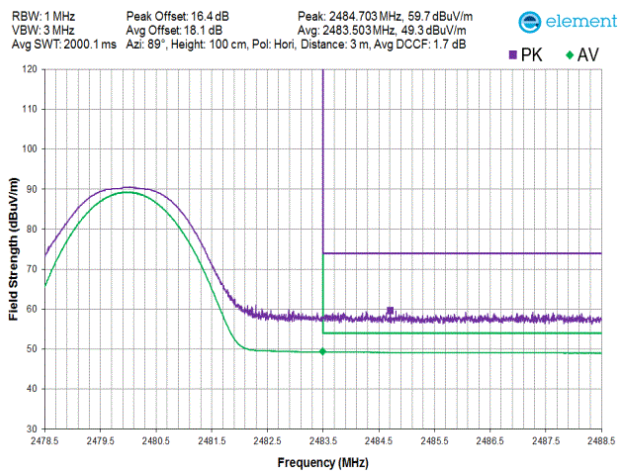
RADIATED BAND EDGE EMISSIONS (1 MBPS)



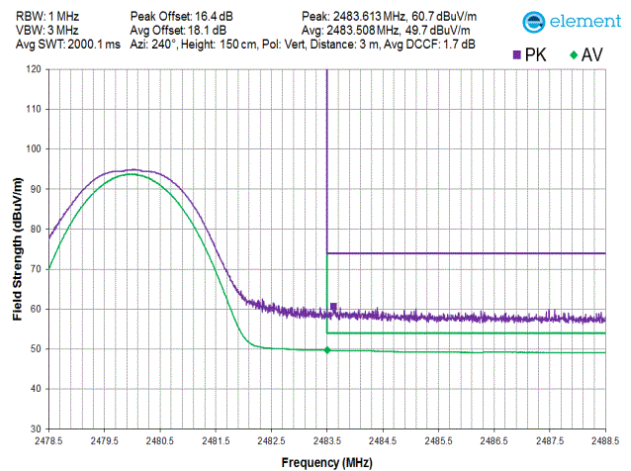
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



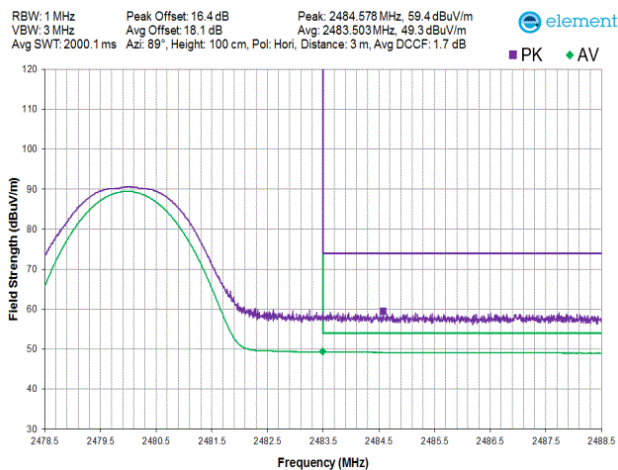
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



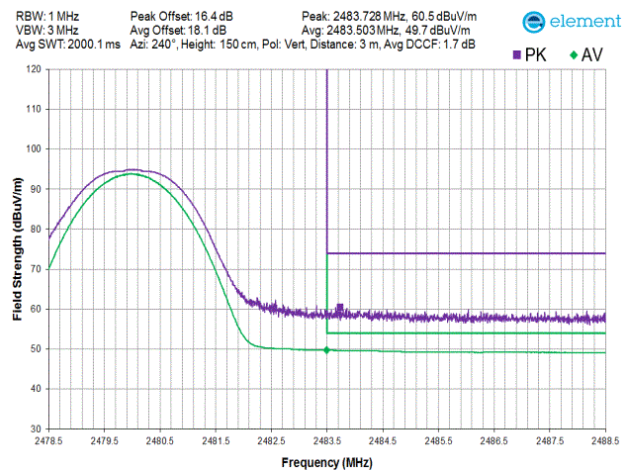
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

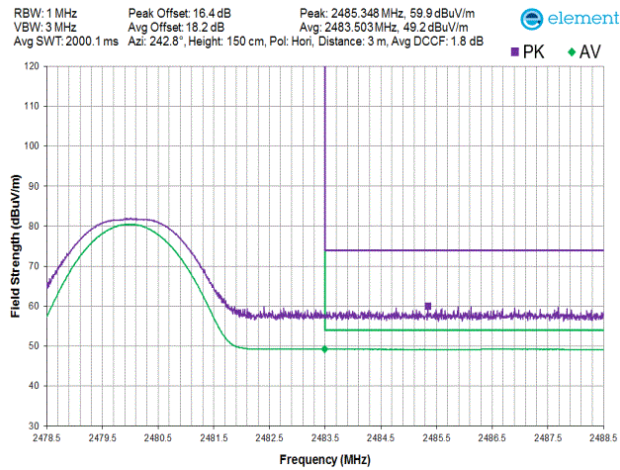


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

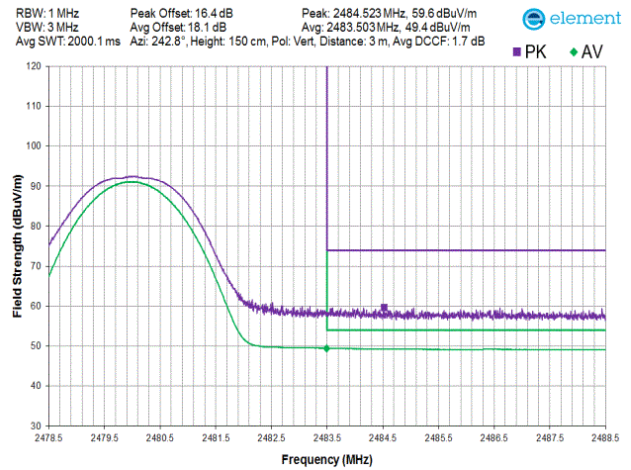


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

RADIATED BAND EDGE EMISSIONS (1 MBPS)



**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE (2 MBPS)

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 in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

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.

The 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 attenuation were used (if needed) 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:

PK = Peak Detector

AV = RMS Detector

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 $10 \cdot \log(1/dc)$.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	2025-04-11	2026-04-11
Antenna - Double Ridge	ETS Lindgren	3115	AIP	2024-08-02	2026-08-02
Cable	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	2024-11-26	2025-11-26
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVT	2025-01-08	2026-01-08
Attenuator	Fairview Microwave	SA18H-20	VAF	2025-09-03	2026-09-03

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE (2 MBPS)



EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0004
Serial Number:	7DK3GJF	Date:	2025-10-02
Customer:	Fortell Research Inc.	Temperature:	22.5°C
Attendees:	John Becker	Relative Humidity:	54.7%
Customer Project:	None	Bar. Pressure (PMSL):	1016 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN05
Power:	Battery	Configuration:	CHRM0004-12

COMMENTS

A duty cycle correction factor (DCCF) was applied to average measurements using the formula $DCCF=10*\log(1/\text{duty cycle})$. The test mode was 67.7% (1Mbps) and 38.9% (2 Mbps) which resulted in a 1.7dB (1Mbps) and 4.1dB (2Mbps) correction.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

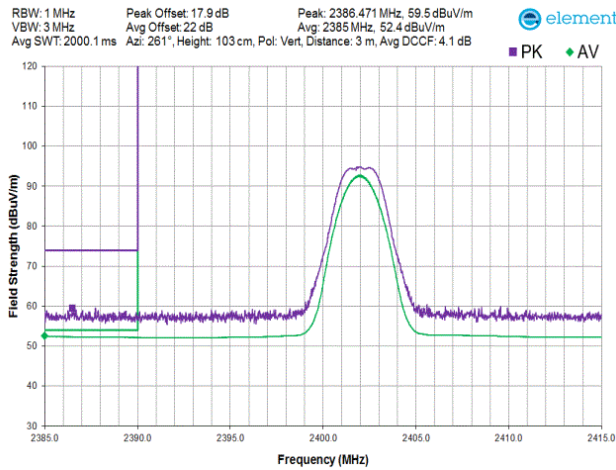
N/A

Tested By

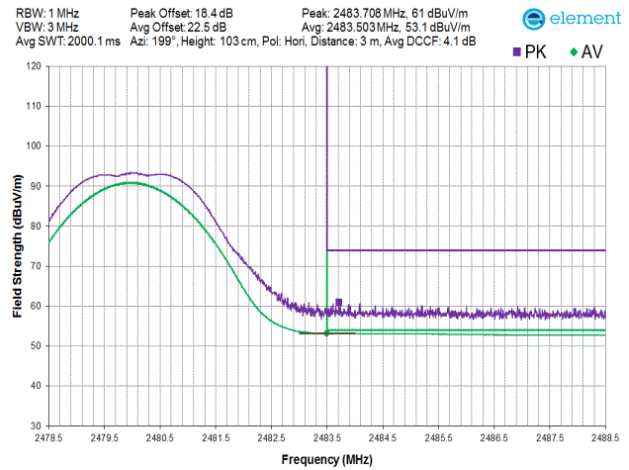
TEST RESULTS

	Frequency (MHz)	PK (dBuV/m) AV (dBuV/m)	PK Lim (dBuV/m) AV Lim (dBuV/m)	Worst Margin (dB)	Pol. (H/V)	EUT Orientation	Results
BLE/GFSK 2 Mbps							
Low Channel, 2402 MHz	2386.471	59.5	74.0	-1.6	V	Vertical	Pass
	2385.000	52.4	54.0				
High Channel, 2480 MHz	2483.708	61.0	74.0	-0.9	H	Vertical	Pass
	2483.503	53.1	54.0				
	2483.568	61.5	74.0	-0.6	V	Vertical	Pass
	2483.503	53.4	54.0				
	2484.178	60.8	74.0	-0.9	V	Horizontal	Pass
	2483.503	53.1	54.0				
	2483.648	62.0	74.0	-0.7	H	Horizontal	Pass
	2483.503	53.3	54.0				
	2483.673	62.3	74.0	-0.7	H	on Side	Pass
	2483.503	53.3	54.0				
	2484.018	61.7	74.0	-0.8	V	on Side	Pass
	2483.503	53.2	54.0				

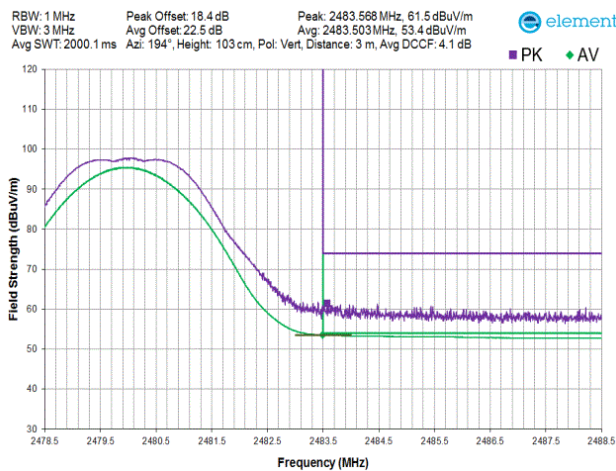
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE (2 MBPS)



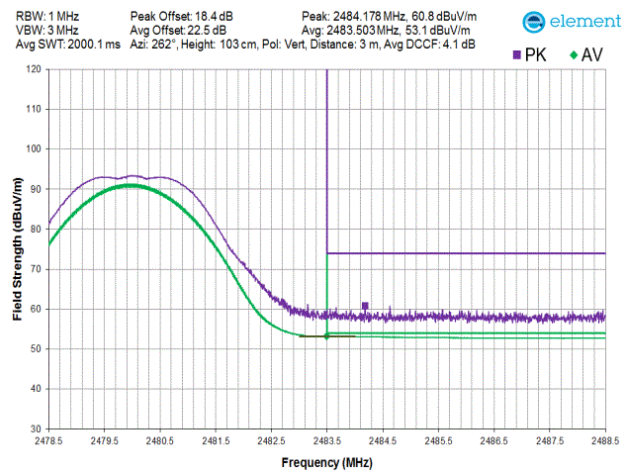
**BLE/GFSK 2 Mbps
Low Channel, 2402 MHz**



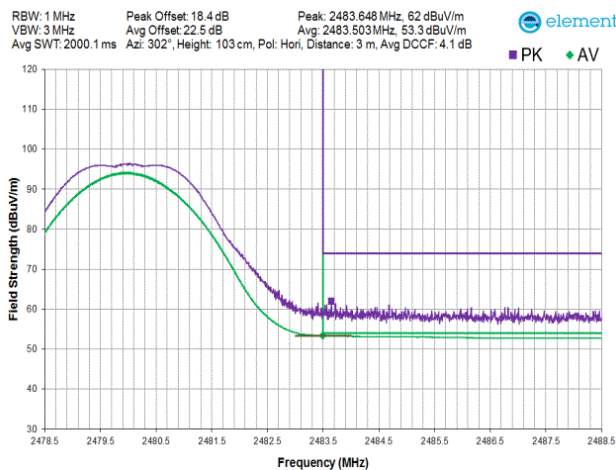
**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**



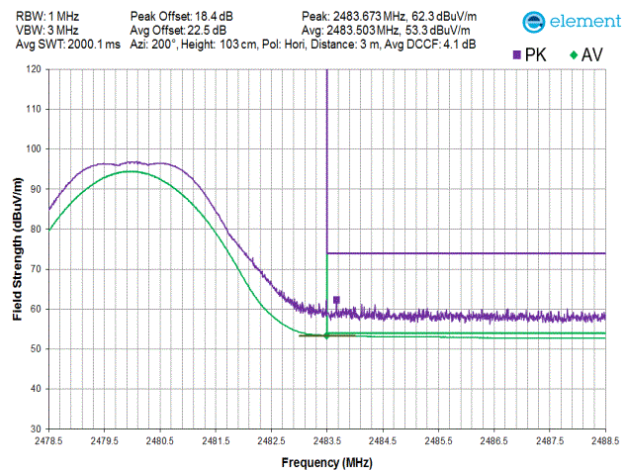
**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**



**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**

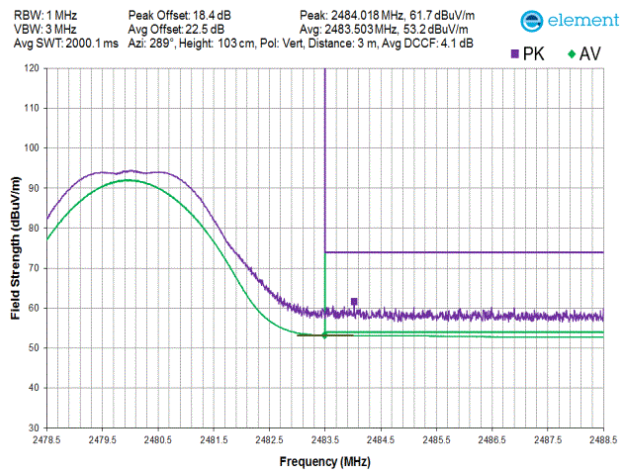


**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**



**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE (2 MBPS)



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

SPURIOUS RADIATED EMISSIONS

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. A reference preview scan (pre-scan) is 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 $10 \cdot \log(1/dc)$.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Standard Gain	ETS Lindgren	3160-09	AHG	2025-02-04	2026-02-04
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNP	2025-09-04	2026-09-04
Amplifier - Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	2025-09-04	2026-09-04
Antenna - Biconilog	Teseq	CBL 6141B	AYD	2024-03-18	2026-03-18
Cable	Element	Biconilog Cable	MNX	2024-09-10	2025-09-10
Amplifier - Pre-Amplifier	Miteq	AM-1064-9079 and SA18E-10	AOO	2025-01-30	2026-01-30
Filter - Low Pass	Micro-Tronics	LPM50004	HGG	2024-09-10	2025-09-10
Antenna - Loop	ETS Lindgren	6502	AOB	2025-06-17	2027-06-17
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	2025-05-23	2026-05-23
Antenna - Double Ridge	ETS Lindgren	3115	AJQ	2025-02-05	2027-02-05
Cable	Element	Double Ridge Guide Horn Cables	MNV	2024-09-10	2025-09-10
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2025-02-01	2026-02-01
Attenuator	Coaxicom	3910-20	AXY	2024-09-10	2025-09-10
Filter - High Pass	Micro-Tronics	HPM50111	HFM	2024-09-10	2025-09-10
Antenna - Standard Gain	ETS-Lindgren	3160-07	AJJ	2025-02-04	2026-02-04
Cable	Element	Standard Gain Cable	MNW	2024-09-10	2025-09-10
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2025-02-01	2026-02-01
Antenna - Standard Gain	ETS-Lindgren	3160-08	AJP	2025-02-04	2026-02-04
Amplifier - Pre-Amplifier	L-3 Narda-Miteq	AMF-6F-12001800-30-10P	PAP	2025-02-01	2026-02-01

SPURIOUS RADIATED EMISSIONS

FREQUENCY RANGE INVESTIGATED

9 kHz TO 26500 MHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

CHRM0004-12

MODES INVESTIGATED

Power setting -4. Transmitting BLE Low, Mid and High Ch (2402, 2442 and 2480 MHz) 1 and 2 Mbps

SPURIOUS RADIATED EMISSIONS

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0004
Serial Number:	7DK3GJF	Date:	2025-09-09
Customer:	Fortell Research Inc.	Temperature:	22.5°C
Attendees:	John Becker	Relative Humidity:	51.3%
Customer Project:	None	Bar. Pressure (PMSL):	1013 mb
Tested By:	Marcelo Aguayo, Christopher Heintzelman	Job Site:	MN09
Power:	Battery	Configuration:	CHRM0004-12

TEST PARAMETERS

Run #:	31	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

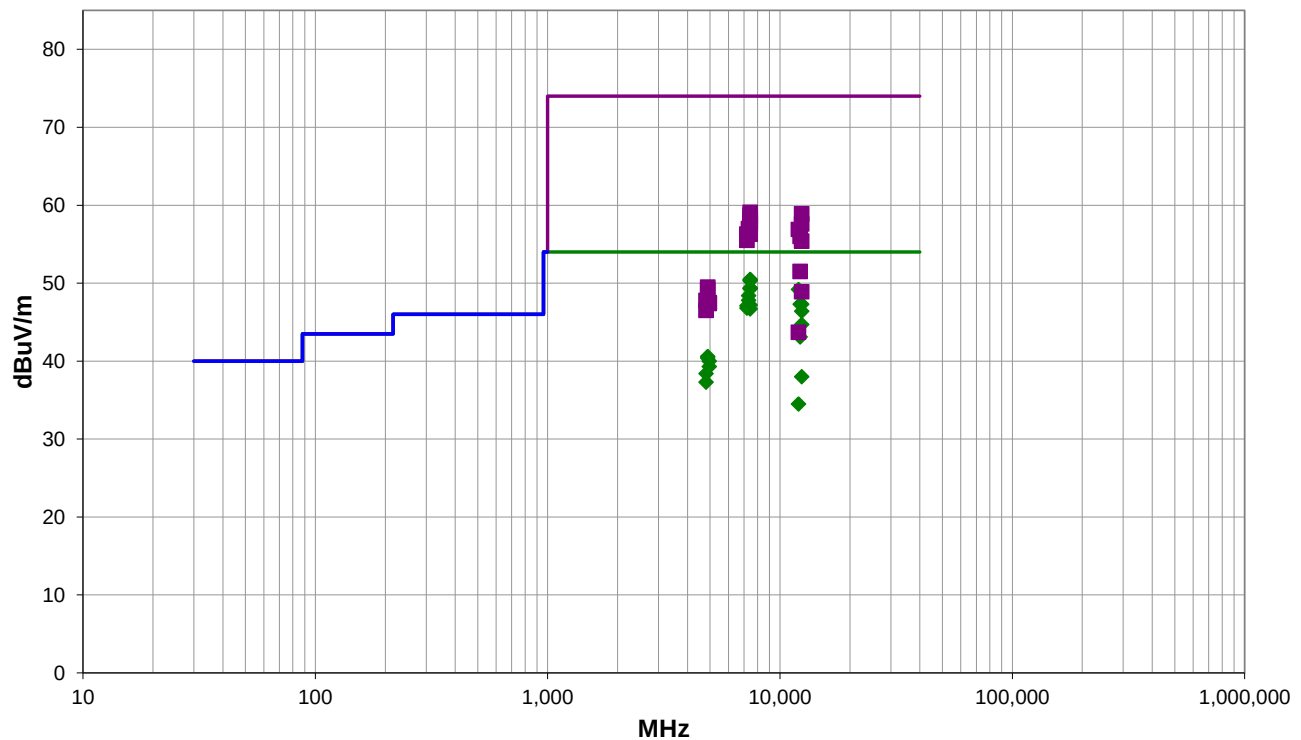
A duty cycle correction factor (DCCF) was applied to average measurements using the formula $DCCF = 10 \cdot \log(1/\text{duty cycle})$. The test mode was 67.7% (1Mbps) and 38.9% (2 Mbps) which resulted in a 1.7dB (1Mbps) and 4.1dB (2Mbps) correction.

EUT OPERATING MODES

Power setting -4. Transmitting BLE Low, Mid and High Ch (2402, 2442 and 2480 MHz) 1 and 2 Mbps

DEVIATIONS FROM TEST STANDARD

None



Run #: 31

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #31

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7439.517	34.8	14.0	2.2	178.0	1.7	0.0	Horz	AV	0.0	50.5	54.0	-3.5	EUT Vert, High Ch, 1Mbps
7439.525	34.7	14.0	1.2	142.0	1.7	0.0	Vert	AV	0.0	50.4	54.0	-3.6	EUT Horz, High Ch, 1Mbps
7439.533	34.6	14.0	1.5	185.0	1.7	0.0	Vert	AV	0.0	50.3	54.0	-3.7	EUT Vert, High Ch, 1Mbps
7439.483	33.7	14.0	1.5	216.0	1.7	0.0	Vert	AV	0.0	49.4	54.0	-4.6	EUT On Side, High Ch, 1Mbps
7439.450	33.6	14.0	3.9	158.0	1.7	0.0	Horz	AV	0.0	49.3	54.0	-4.7	EUT On Side, High Ch, 1Mbps
7439.508	33.6	14.0	2.2	125.0	1.7	0.0	Horz	AV	0.0	49.3	54.0	-4.7	EUT Horz, High Ch, 1Mbps
12008.910	49.1	-1.6	1.0	207.0	1.7	0.0	Horz	AV	0.0	49.2	54.0	-4.8	EUT Vert, Low Ch, 1Mbps
7325.575	33.5	13.2	1.5	61.0	1.7	0.0	Vert	AV	0.0	48.4	54.0	-5.6	EUT Vert, Mid Ch, 1Mbps
7325.542	32.9	13.2	1.5	355.0	1.7	0.0	Horz	AV	0.0	47.8	54.0	-6.2	EUT Vert, Mid Ch, 1Mbps
7438.758	30.7	14.0	1.5	15.0	4.1	0.0	Horz	AV	0.0	48.8	54.0	-5.2	EUT Vert, High Ch, 2Mbps
12208.920	46.4	-0.8	1.1	217.0	1.7	0.0	Horz	AV	0.0	47.3	54.0	-6.7	EUT Vert, Mid Ch, 1Mbps
12401.050	32.7	12.9	3.8	31.0	1.7	0.0	Horz	AV	0.0	47.3	54.0	-6.7	EUT Vert, High Ch, 1Mbps
7438.717	30.2	14.0	1.5	21.0	4.1	0.0	Vert	AV	0.0	48.3	54.0	-5.7	EUT Vert, High Ch, 2Mbps
7205.550	33.0	12.4	1.5	356.0	1.7	0.0	Horz	AV	0.0	47.1	54.0	-6.9	EUT Vert, Low Ch, 1Mbps
7205.492	32.7	12.4	1.3	22.0	1.7	0.0	Vert	AV	0.0	46.8	54.0	-7.2	EUT Vert, Low Ch, 1Mbps
12401.060	31.8	12.9	1.1	157.0	1.7	0.0	Vert	AV	0.0	46.4	54.0	-7.6	EUT Vert, High Ch, 1Mbps
12398.900	43.1	-0.1	3.2	32.0	1.7	0.0	Horz	AV	0.0	44.7	54.0	-9.3	EUT Vert, High Ch, 1Mbps
12208.880	42.2	-0.8	3.5	31.0	1.7	0.0	Vert	AV	0.0	43.1	54.0	-10.9	EUT Vert, Mid Ch, 1Mbps
4883.942	33.8	5.1	1.6	203.0	1.7	0.0	Horz	AV	0.0	40.6	54.0	-13.4	EUT Vert, Mid Ch, 1Mbps
4883.917	33.6	5.1	3.2	26.0	1.7	0.0	Vert	AV	0.0	40.4	54.0	-13.6	EUT Vert, Mid Ch, 1Mbps
4959.958	33.3	5.0	3.7	161.0	1.7	0.0	Vert	AV	0.0	40.0	54.0	-14.0	EUT Vert, High Ch, 1Mbps
7439.783	45.1	14.0	2.2	178.0	0.0	0.0	Horz	PK	0.0	59.1	74.0	-14.9	EUT Vert, High Ch, 1Mbps
12400.200	46.0	12.9	3.8	31.0	0.0	0.0	Horz	PK	0.0	58.9	74.0	-15.1	EUT Vert, High Ch, 1Mbps
4959.933	32.6	5.0	1.5	193.0	1.7	0.0	Horz	AV	0.0	39.3	54.0	-14.7	EUT Vert, High Ch, 1Mbps
7439.217	44.7	14.0	1.2	142.0	0.0	0.0	Vert	PK	0.0	58.7	74.0	-15.3	EUT Horz, High Ch, 1Mbps
7439.258	44.4	14.0	1.5	185.0	0.0	0.0	Vert	PK	0.0	58.4	74.0	-15.6	EUT On Side, High Ch, 1Mbps
7439.683	43.9	14.0	1.5	216.0	0.0	0.0	Vert	PK	0.0	57.9	74.0	-16.1	EUT Vert, High Ch, 1Mbps
7439.992	43.9	14.0	2.2	125.0	0.0	0.0	Horz	PK	0.0	57.9	74.0	-16.1	EUT Horz, High Ch, 1Mbps
4804.025	31.3	5.4	1.5	202.0	1.7	0.0	Horz	AV	0.0	38.4	54.0	-15.6	EUT Vert, Low Ch, 1Mbps
7440.692	43.7	14.0	3.9	158.0	0.0	0.0	Horz	PK	0.0	57.7	74.0	-16.3	EUT On Side, High Ch, 1Mbps
12400.100	44.7	12.9	1.1	157.0	0.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	EUT Vert, High Ch, 1Mbps
12398.860	36.4	-0.1	1.5	121.0	1.7	0.0	Vert	AV	0.0	38.0	54.0	-16.0	EUT Vert, High Ch, 1Mbps
7438.908	43.3	14.0	1.5	15.0	0.0	0.0	Horz	PK	0.0	57.3	74.0	-16.7	EUT Vert, High Ch, 2Mbps
7325.217	43.8	13.2	1.5	355.0	0.0	0.0	Horz	PK	0.0	57.0	74.0	-17.0	EUT Vert, Mid Ch, 1Mbps
7326.758	43.8	13.2	1.5	61.0	0.0	0.0	Vert	PK	0.0	57.0	74.0	-17.0	EUT Vert, Mid Ch, 1Mbps
12009.540	58.5	-1.6	1.0	207.0	0.0	0.0	Horz	PK	0.0	56.9	74.0	-17.1	EUT Vert, Low Ch, 1Mbps
4803.942	30.2	5.4	1.5	245.0	1.7	0.0	Vert	AV	0.0	37.3	54.0	-16.7	EUT Vert, Low Ch, 1Mbps
7206.817	43.9	12.4	1.5	356.0	0.0	0.0	Horz	PK	0.0	56.3	74.0	-17.7	EUT Vert, Low Ch, 1Mbps
7441.217	42.3	14.0	1.5	21.0	0.0	0.0	Vert	PK	0.0	56.3	74.0	-17.7	EUT Vert, High Ch, 2Mbps
12209.770	56.8	-0.8	1.1	217.0	0.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	EUT Vert, Mid Ch, 1Mbps

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7205.258	43.1	12.4	1.3	22.0	0.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	EUT Vert, Low Ch, 1Mbps
12399.920	55.5	-0.1	3.2	32.0	0.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	EUT Vert, High Ch, 1Mbps
12008.920	34.4	-1.6	1.5	313.0	1.7	0.0	Vert	AV	0.0	34.5	54.0	-19.5	EUT Vert, Low Ch, 1Mbps
12209.810	52.3	-0.8	3.5	31.0	0.0	0.0	Vert	PK	0.0	51.5	74.0	-22.5	EUT Vert, Mid Ch, 1Mbps
4884.308	44.4	5.1	1.6	203.0	0.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	EUT Vert, Mid Ch, 1Mbps
4884.500	44.1	5.1	3.2	26.0	0.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	EUT Vert, Mid Ch, 1Mbps
12399.800	49.0	-0.1	1.5	121.0	0.0	0.0	Vert	PK	0.0	48.9	74.0	-25.1	EUT Vert, High Ch, 1Mbps
4804.008	42.4	5.4	1.5	202.0	0.0	0.0	Horz	PK	0.0	47.8	74.0	-26.2	EUT Vert, Low Ch, 1Mbps
4960.683	42.5	5.0	3.7	161.0	0.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5	EUT Vert, High Ch, 1Mbps
4960.350	42.4	5.0	1.5	193.0	0.0	0.0	Horz	PK	0.0	47.4	74.0	-26.6	EUT Vert, High Ch, 1Mbps
4803.100	41.1	5.4	1.5	245.0	0.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	EUT Vert, Low Ch, 1Mbps
12009.080	45.3	-1.6	1.5	313.0	0.0	0.0	Vert	PK	0.0	43.7	74.0	-30.3	EUT Vert, Low Ch, 1Mbps

CONCLUSION

Pass

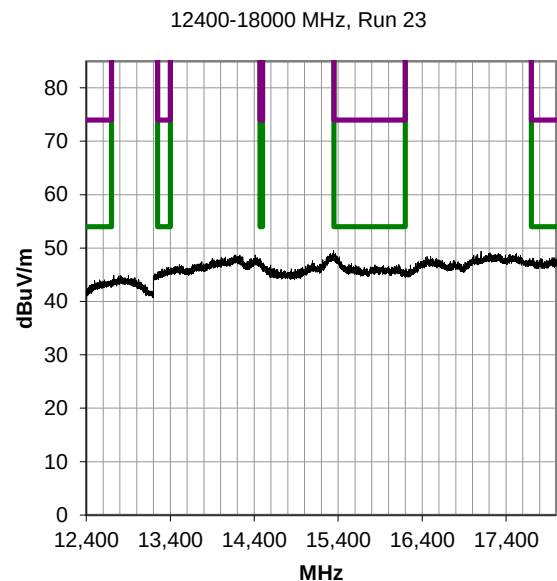
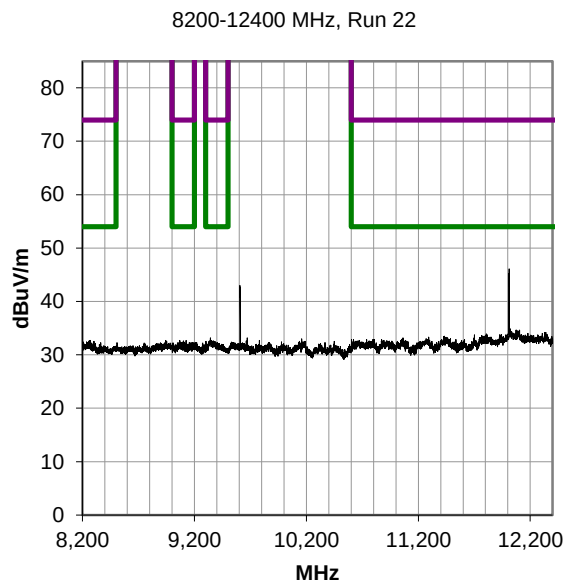
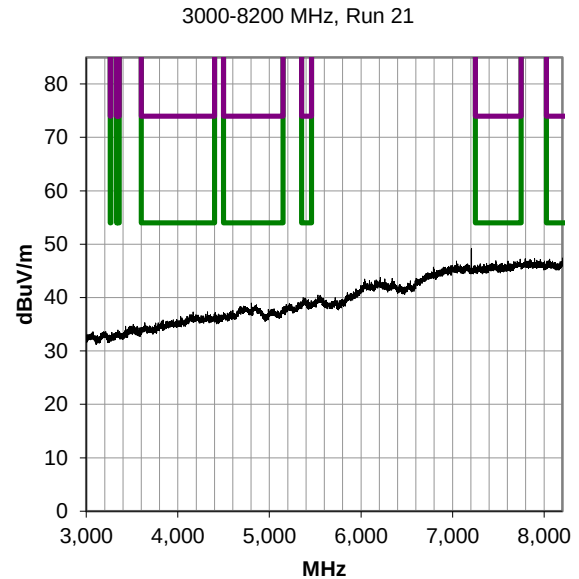
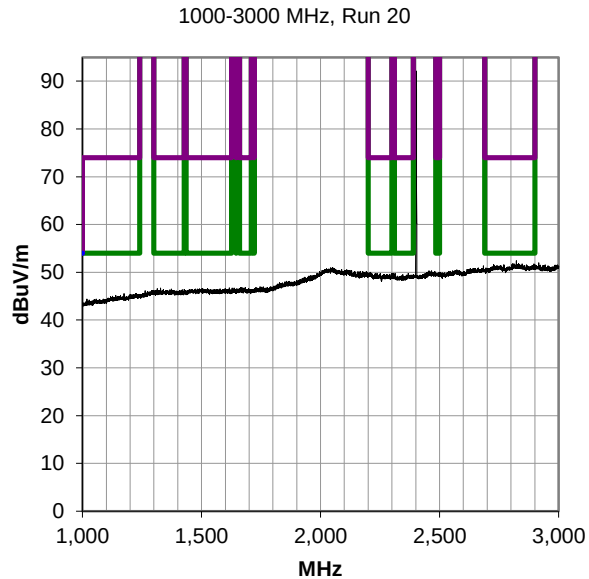


Tested By

SPURIOUS RADIATED EMISSIONS

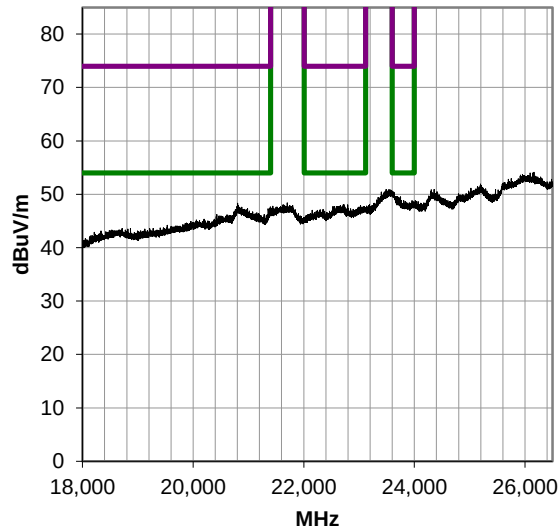
PRESCAN DATA

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.

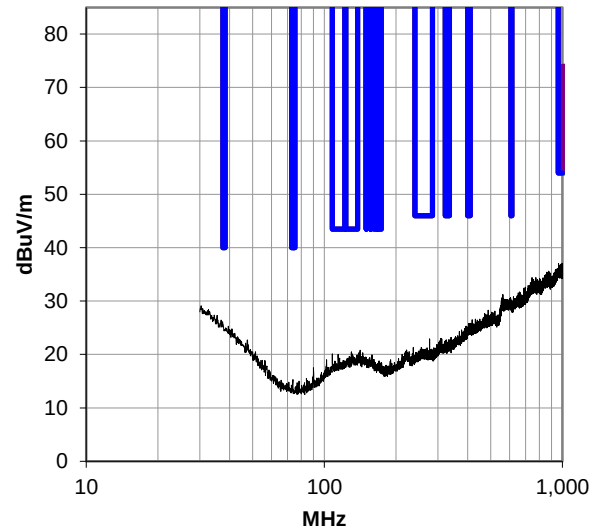


SPURIOUS RADIATED EMISSIONS

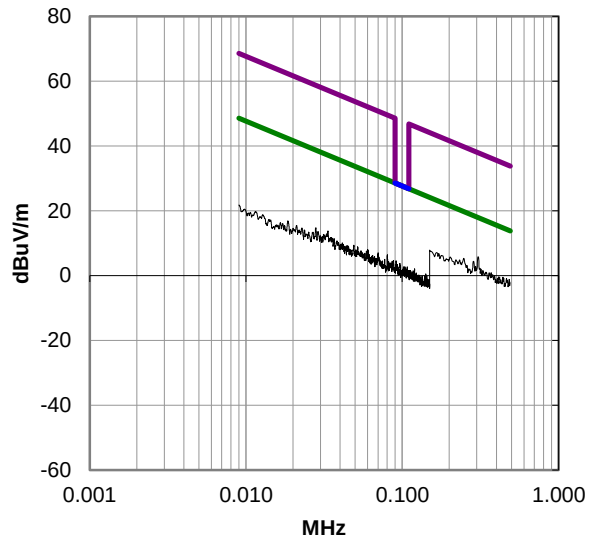
18000-26500 MHz, Run 45



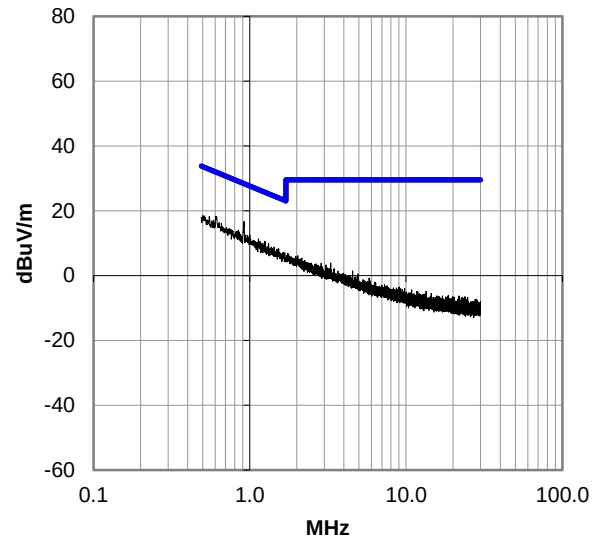
30-1000 MHz, Run 50



0.009-30 MHz, Run 60



0.009-30 MHz, Run 60



End of Test Report