



Nox Medical

Nox S2

FCC 15.247:2026

Bluetooth LE Radio

Report: NOXM0051.6 Rev. 01, Issue Date: May 19, 2026



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CERTIFICATE OF TEST

Last Date of Test: March 30, 2026

Nox Medical

EUT: Nox S2

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2026	ANSI C63.10:2020 Cor.1:2023

Guidance

FCC KDB 558074 v05r02:2019

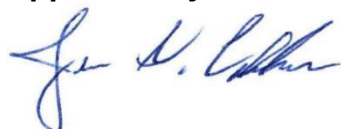
Results

Test Description	Result	Specification Section(s)	Method Section(s)	Comments
Powerline Conducted Emissions	N/A	15.207	6.2	Not required for a battery powered EUT.
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	11.9.1.1	
Equivalent Isotropic Radiated Power	Pass	15.247(b)(3), KDB 558074 -8.3.1	11.9.1.1	
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

Approved By:



Johnny Candelas, Operations Manager
Signed for and on behalf of Element

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
00	None		
01	Revised test method to ANSI C63.10:2020 Cor.1:2023	2026-05-12	3
	Adding missing loop antenna		44

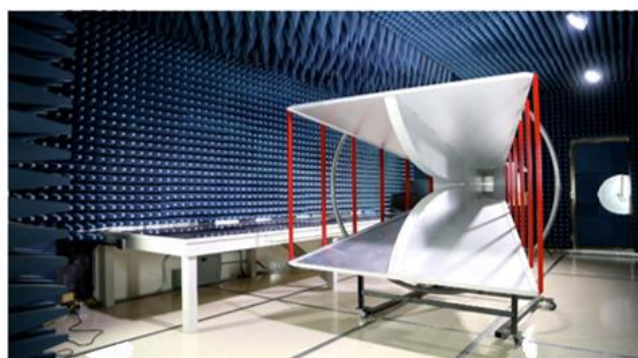
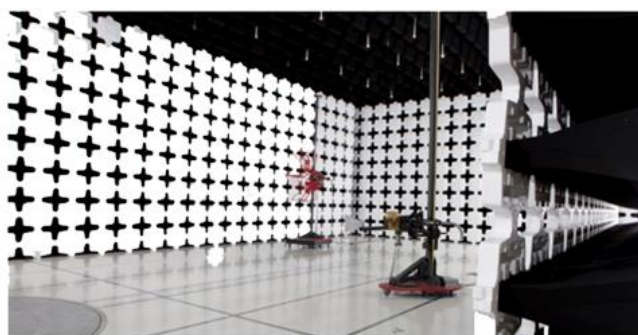
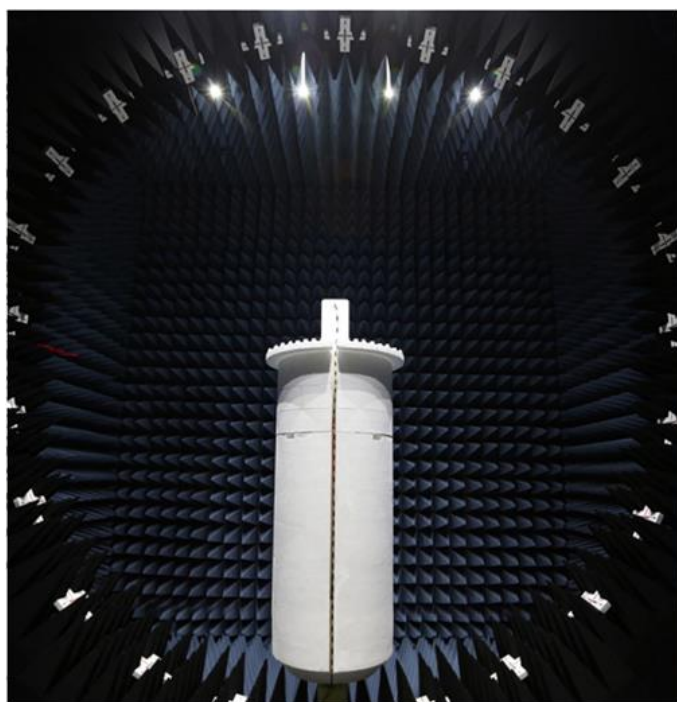
FACILITIES

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 reported is based on statistical analysis that was performed by the laboratory. 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.

Various Measurements

Test	All Labs (+/-)
Frequency Accuracy (%)	0.0007
Amplitude Accuracy (dB)	1.2
Conducted Power (dB)	1.2
Radiated Power via Substitution (dB)	0.7
Temperature (degrees C)	0.7
Humidity (% RH)	2.5
Voltage (AC) (%)	1
Voltage (DC) (%)	0.7
Near-field Measurement of E-Field (dB)	1.89
Near-field Measurement of H-Field (dB)	2.65

Field Strength Measurements (dB)

Range	OC10 (+/-)
9kHz-30MHz	1.8
30MHz-1GHz 3m	4.6
1GHz-6GHz	5
6GHz-40GHz	5.1
18GHz-40GHz	1.8
40GHz-220GHz	1.8

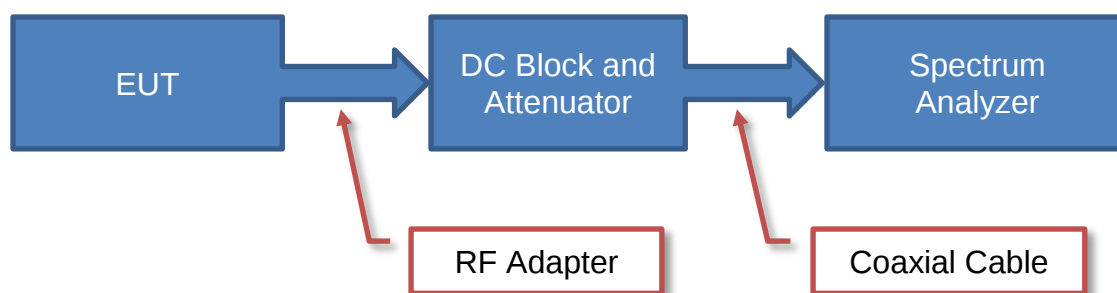
TEST SETUP BLOCK DIAGRAMS

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.

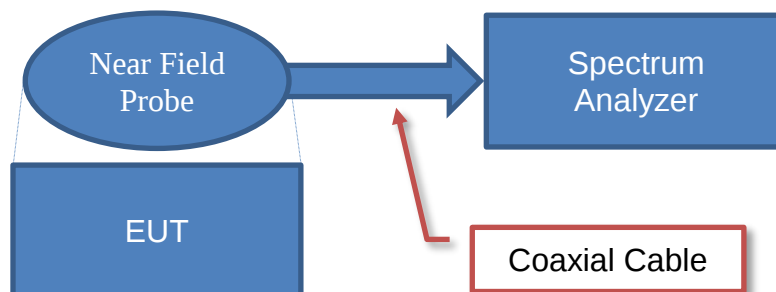
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

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

Near Field Test Fixture Measurements

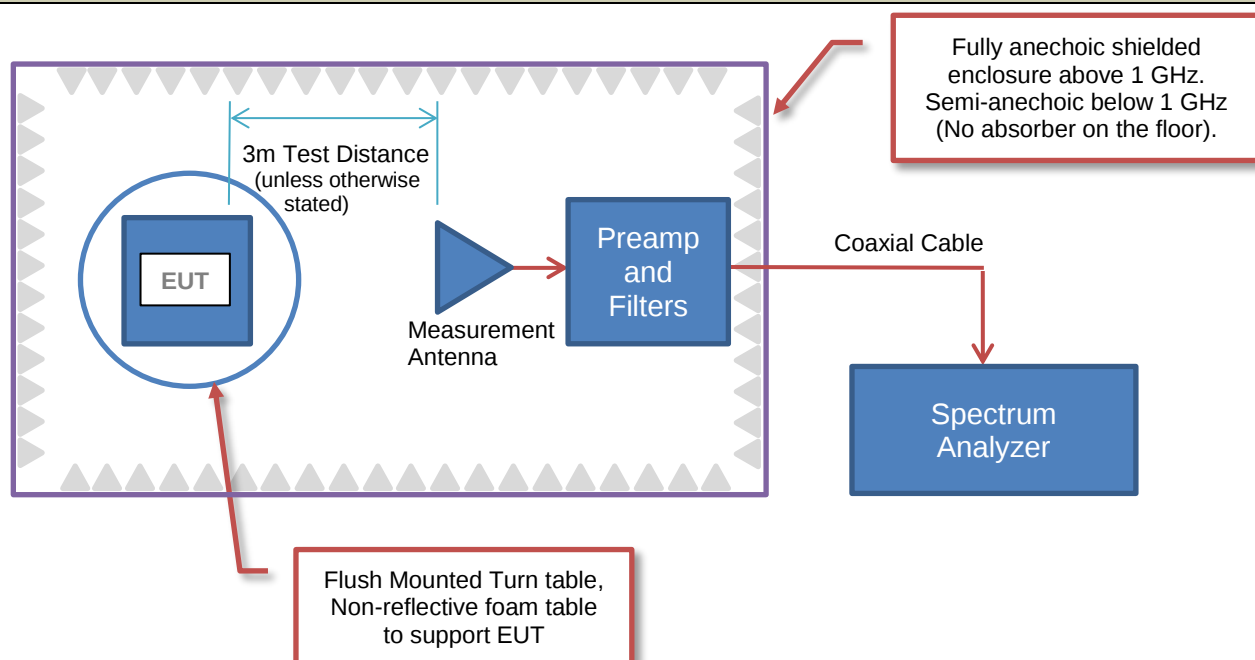


Sample Calculation (logarithmic units)

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

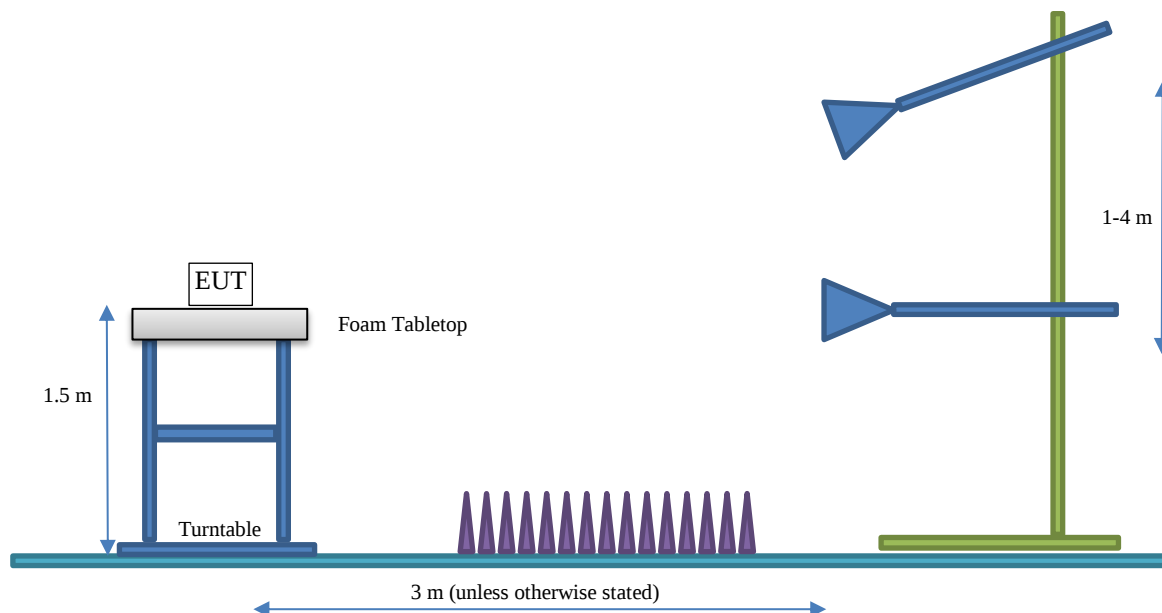
Radiated Power (ERP/EIRP) – Substitution Method:

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:	Nox Medical
Address:	Katrinartuni 2
City, State, Zip:	IS - 105 Reykjavik, IS – 105 Iceland
Test Requested By:	Gudmundur Hauksson
EUT:	Nox S2
First Date of Test:	March 24, 2026
Last Date of Test:	March 30, 2026
Receipt Date of Samples:	March 24, 2026
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
Sleep Sensor
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	Manufacturer:	Frequency Range (MHz)	Gain (dBi)
PCB	Nox Medical	2402 - 2480	1.9

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

- ☐ Test software settings Software / firmware used for testing: BT DTM Test FW Ver. 17
- ☒ 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 dBm
		18	Mid Channel	2442	4 dBm
		39	High Channel	2480	4 dBm

CONFIGURATIONS



Configuration NOXM0051-5

Software/Firmware Running During Test	
Description	Version
BT_DTM_TestFW	17_Main

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Nox S2 39	Nox Medical	NOX-S2-0100-PROTOTYPE04	210700091

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Nox RIP Belts	Nox Medical	RIPDXL-0113	N/A

Configuration NOXM0051-6

Software/Firmware Running During Test	
Description	Version
BT_DTM_TestFW	17_Main

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Nox S2 45	Nox Medical	880450-01-R4A	45

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2026-03-24	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	2026-03-25	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	2026-03-25	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.
4	2026-03-30	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.
5	2026-03-30	DTS Bandwidth (6 dB)	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	2026-03-30	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.
7	2026-03-30	Equivalent Isotropic Radiated 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.
8	2026-03-30	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.
9	2026-03-30	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.
10	2026-03-30	Power Spectral Density	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

DUTY CYCLE (CONDUCTED)

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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

DUTY CYCLE (CONDUCTED)

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

N/A

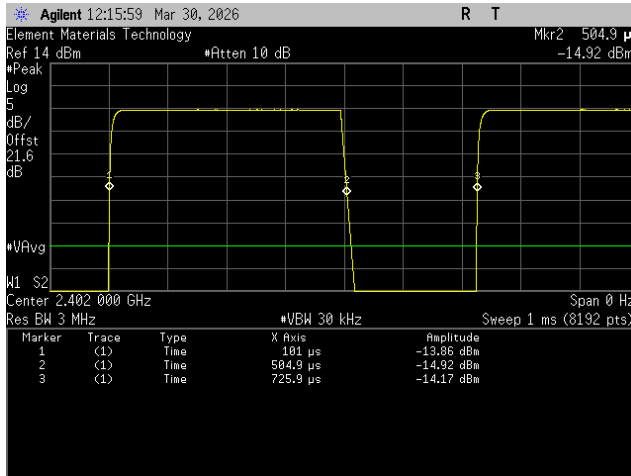


Tested By

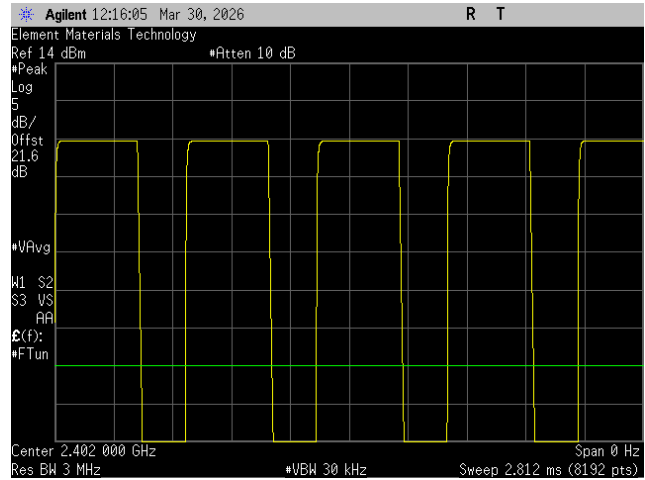
TEST RESULTS

	Pulse Width	Period	Number of Pulses	Value (%)	Limit N/A ()	Results
BLE/GFSK 1 Mbps						
Low Channel, 2402 MHz	403.898 us	624.9 us	1	64.6	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2442 MHz	405.385 us	624.9 us	1	64.9	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz	403.453 us	624.9 us	1	64.6	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
BLE/GFSK 2 Mbps						
Low Channel, 2402 MHz	216.733 us	625 us	1	34.7	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2442 MHz	217.487 us	625.1 us	1	34.8	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz	216.987 us	624.9 us	1	34.7	N/A	N/A
	N/A	N/A	5	N/A	N/A	N/A

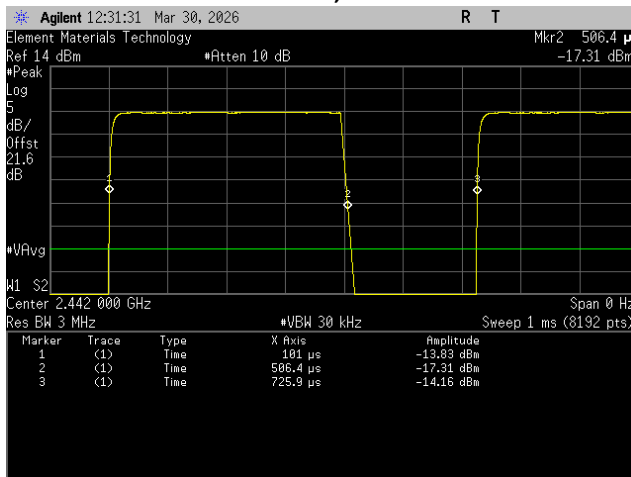
DUTY CYCLE (CONDUCTED)



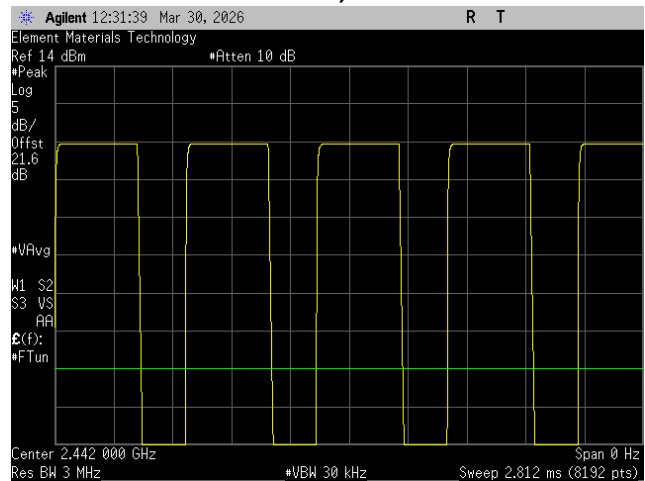
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



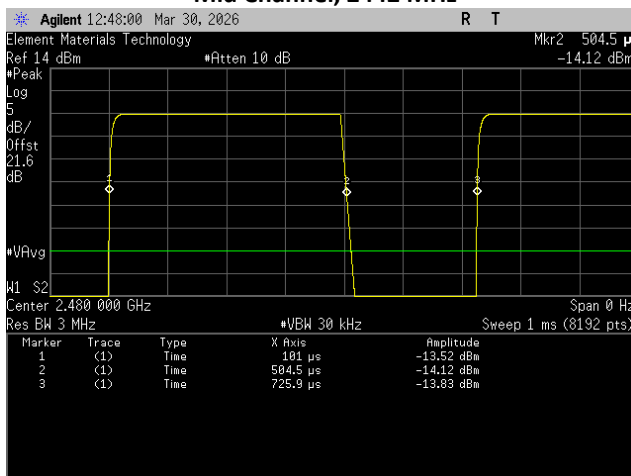
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



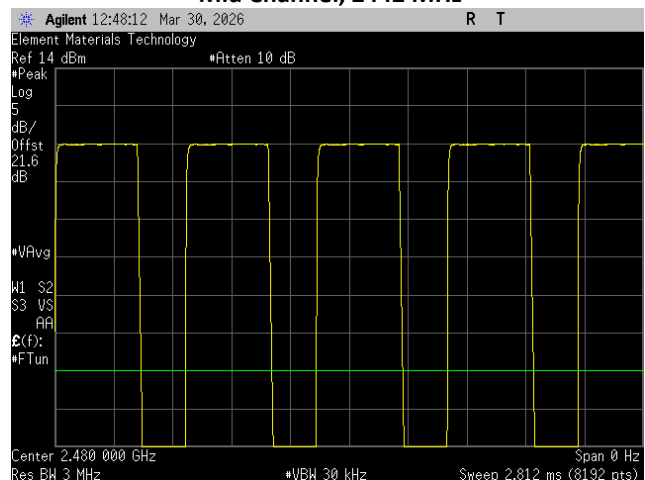
**BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz**



**BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz**

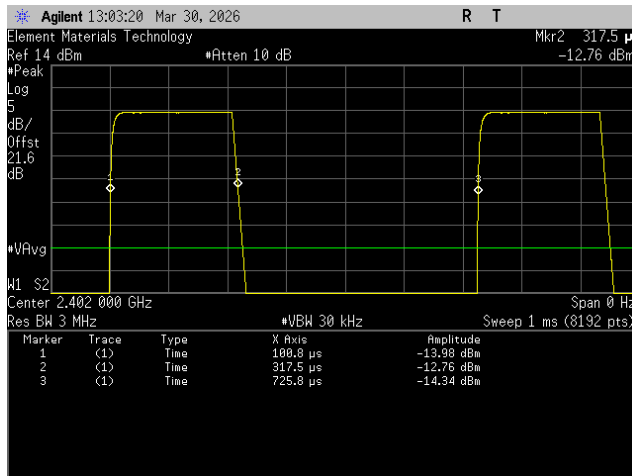


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

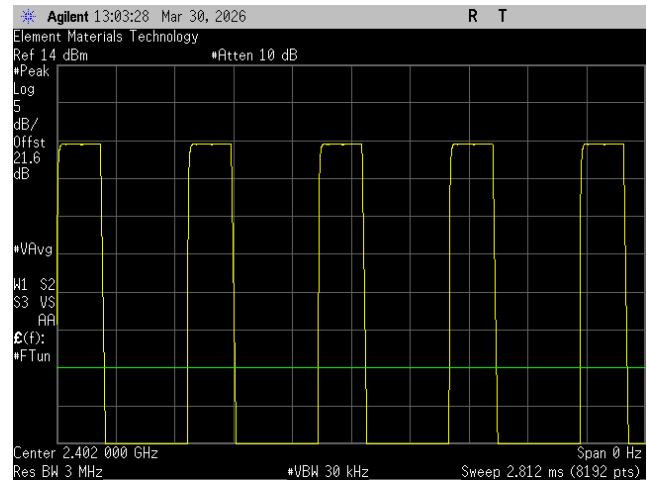


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

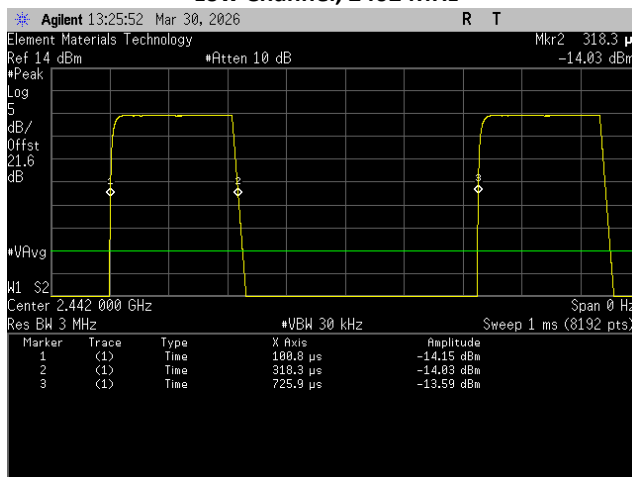
DUTY CYCLE (CONDUCTED)



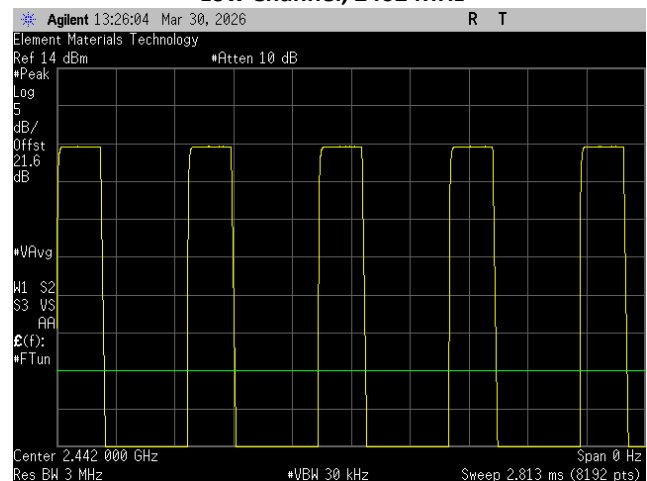
**BLE/GFSK 2 Mbps
Low Channel, 2402 MHz**



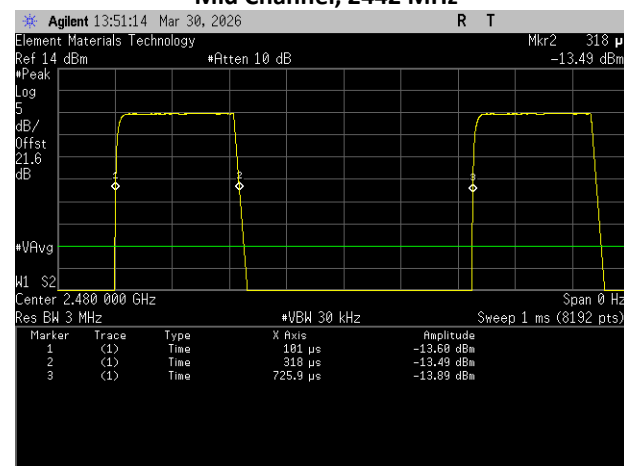
**BLE/GFSK 2 Mbps
Low Channel, 2402 MHz**



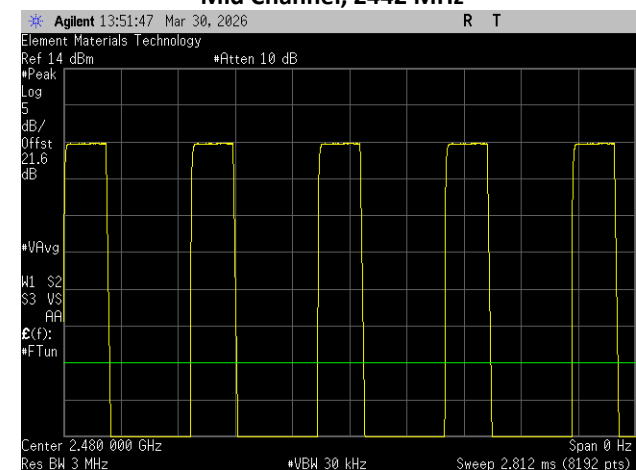
**BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz**



**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: $\geq 3 \times \text{RBW}$

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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

DTS BANDWIDTH (6 dB)

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

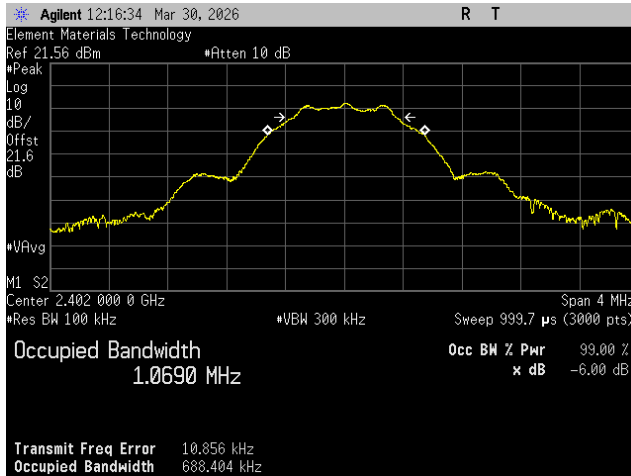


Tested By

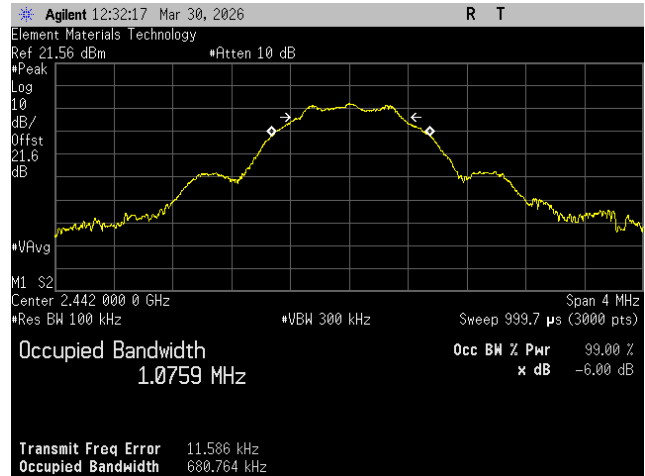
TEST RESULTS

		Value	Limit	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	688.404 kHz	≥ 500 kHz	Pass
	Mid Channel, 2442 MHz	680.764 kHz	≥ 500 kHz	Pass
	High Channel, 2480 MHz	727.037 kHz	≥ 500 kHz	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	1.129 MHz	≥ 500 kHz	Pass
	Mid Channel, 2442 MHz	1.137 MHz	≥ 500 kHz	Pass
	High Channel, 2480 MHz	1.113 MHz	≥ 500 kHz	Pass

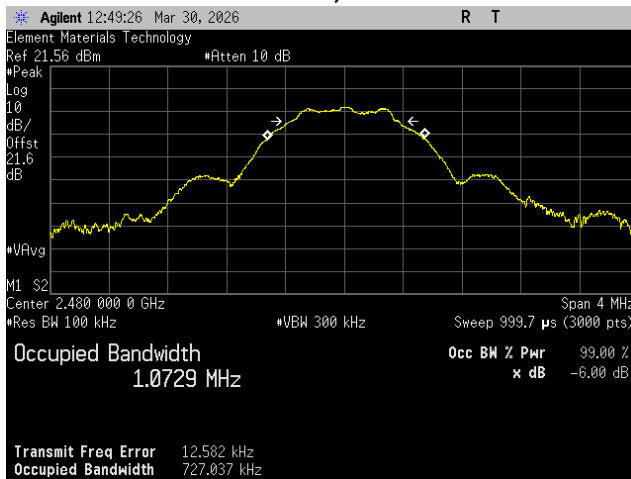
DTS BANDWIDTH (6 dB)



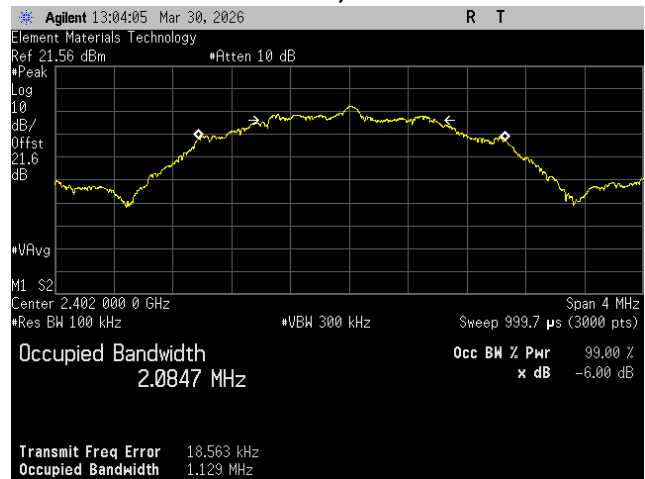
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



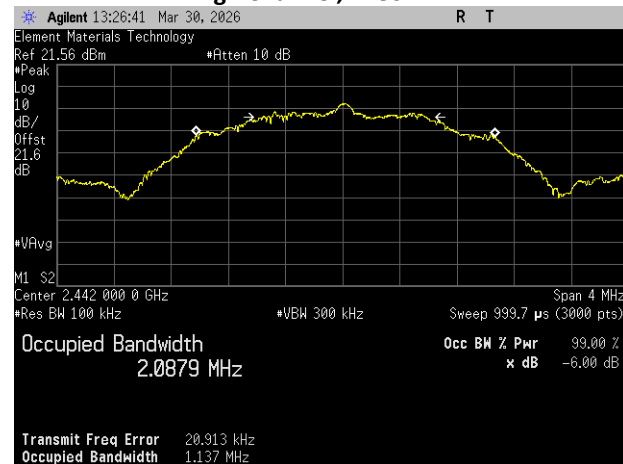
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



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: $\geq 3 \times \text{RBW}$

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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

OCCUPIED BANDWIDTH (99%)

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

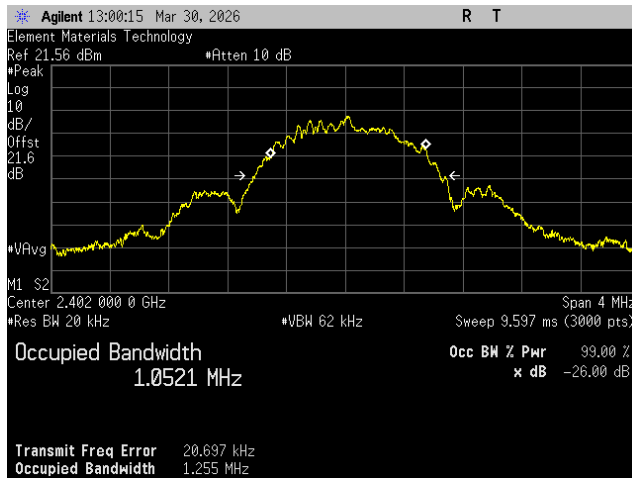


Tested By

TEST RESULTS

		Value	Limit	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	1.052 MHz	N/A	N/A
	Mid Channel, 2442 MHz	1.053 MHz	N/A	N/A
	High Channel, 2480 MHz	1.054 MHz	N/A	N/A
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	2.055 MHz	N/A	N/A
	Mid Channel, 2442 MHz	2.061 MHz	N/A	N/A
	High Channel, 2480 MHz	2.061 MHz	N/A	N/A

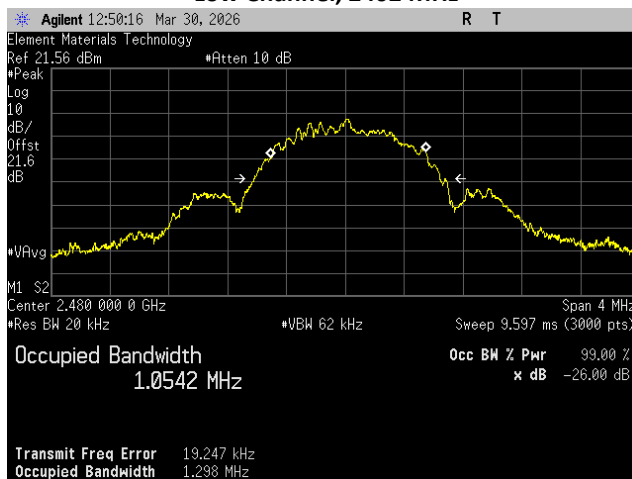
OCCUPIED BANDWIDTH (99%)



BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



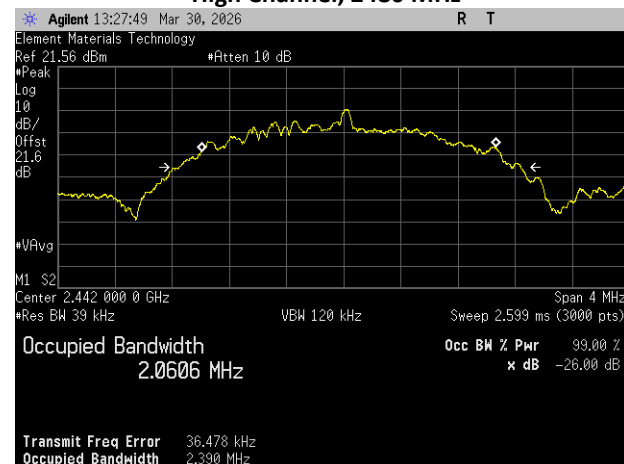
BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz



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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

OUTPUT POWER

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

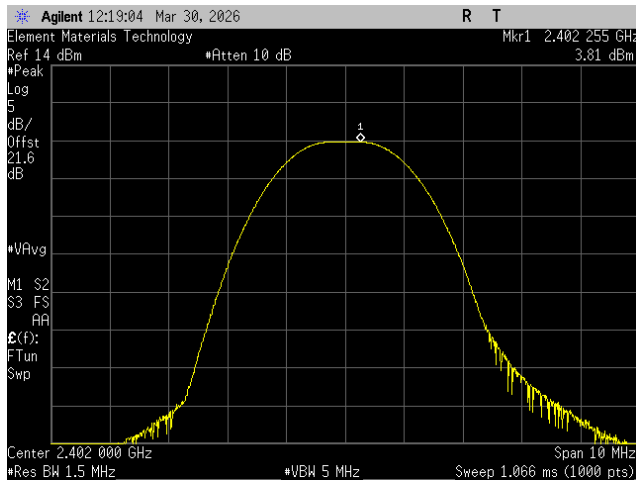


Tested By

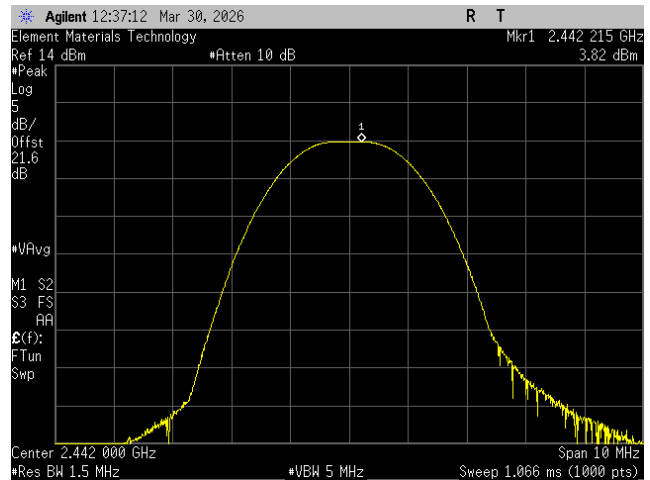
TEST RESULTS

		Out Pwr (dBm)	Limit (dBm)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	3.809	30	Pass
	Mid Channel, 2442 MHz	3.816	30	Pass
	High Channel, 2480 MHz	3.997	30	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	3.824	30	Pass
	Mid Channel, 2442 MHz	3.836	30	Pass
	High Channel, 2480 MHz	4.016	30	Pass

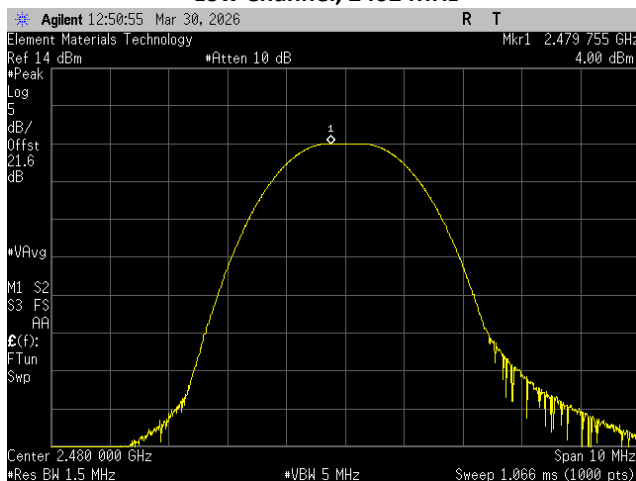
OUTPUT POWER



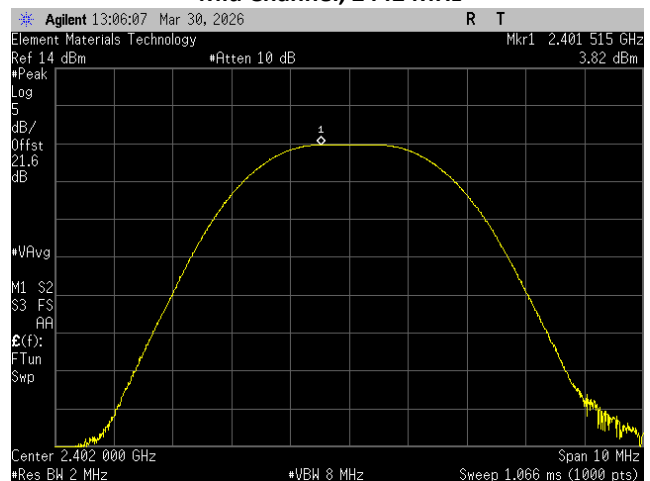
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



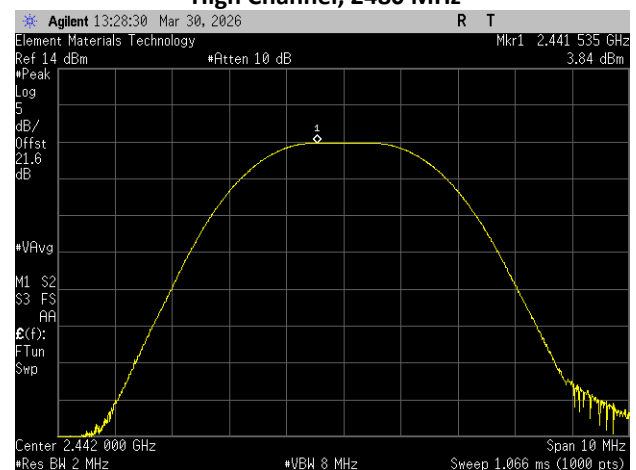
**BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz**



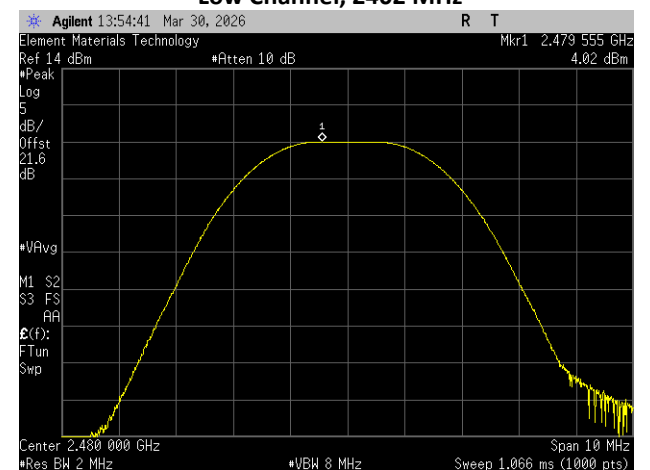
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



**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: $\geq 3 * RBW$

Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

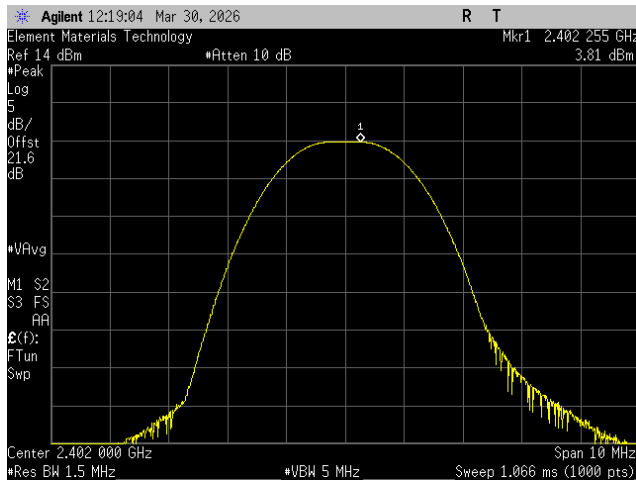
Pass

Tested By

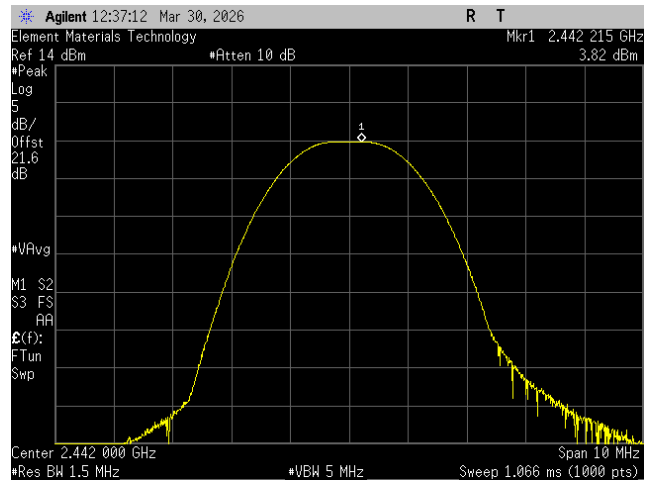
TEST RESULTS

	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	3.809	1.9	5.709	36	Pass
Mid Channel, 2442 MHz	3.816	1.9	5.716	36	Pass
High Channel, 2480 MHz	3.997	1.9	5.897	36	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	3.824	1.9	5.724	36	Pass
Mid Channel, 2442 MHz	3.836	1.9	5.736	36	Pass
High Channel, 2480 MHz	4.016	1.9	5.916	36	Pass

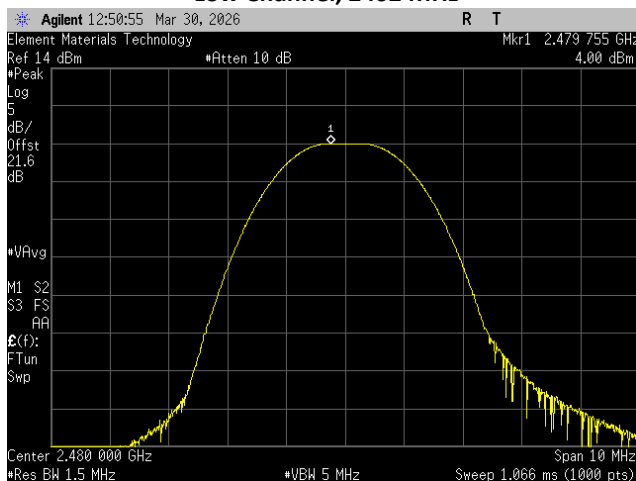
EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



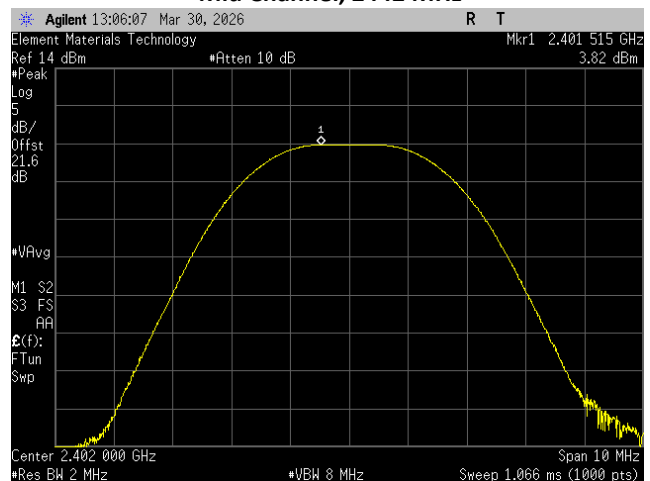
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



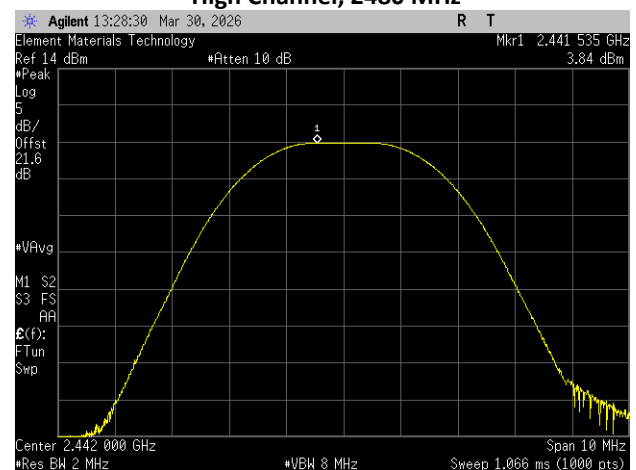
**BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz**



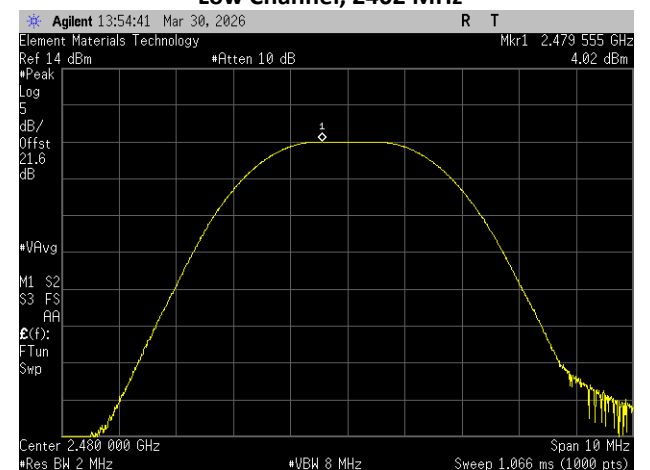
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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



**BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz**



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

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	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

POWER SPECTRAL DENSITY



EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

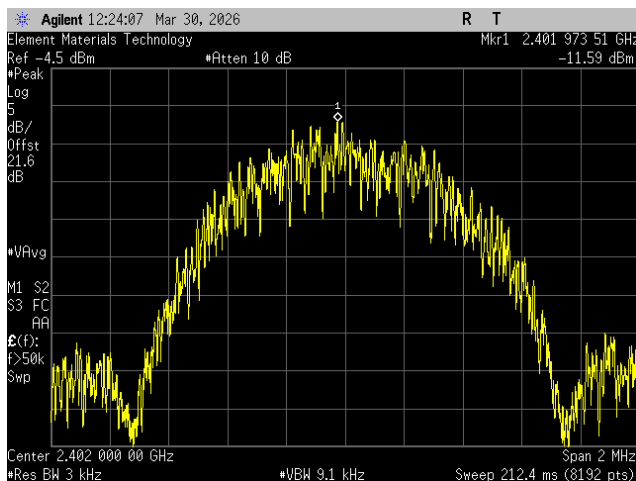
CONCLUSION

Pass

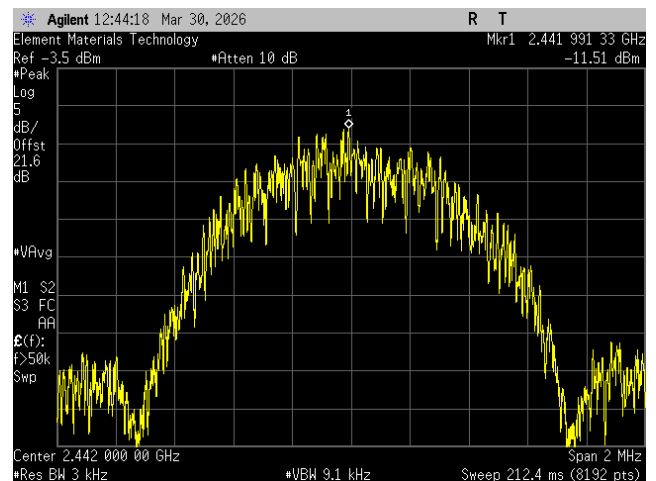
Tested By

TEST RESULTS

	Value dBm/3kHz	Limit ≤ (dBm/3kHz)	Results
BLE/GFSK 1 Mbps			
Low Channel, 2402 MHz	-11.592	8	Pass
Mid Channel, 2442 MHz	-11.509	8	Pass
High Channel, 2480 MHz	-11.282	8	Pass
BLE/GFSK 2 Mbps			
Low Channel, 2402 MHz	-14.041	8	Pass
Mid Channel, 2442 MHz	-13.965	8	Pass
High Channel, 2480 MHz	-13.835	8	Pass

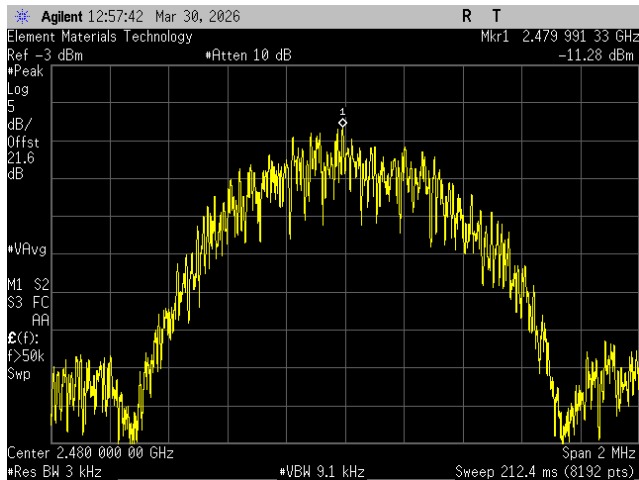


BLE/GFSK 1 Mbps
Low Channel, 2402 MHz

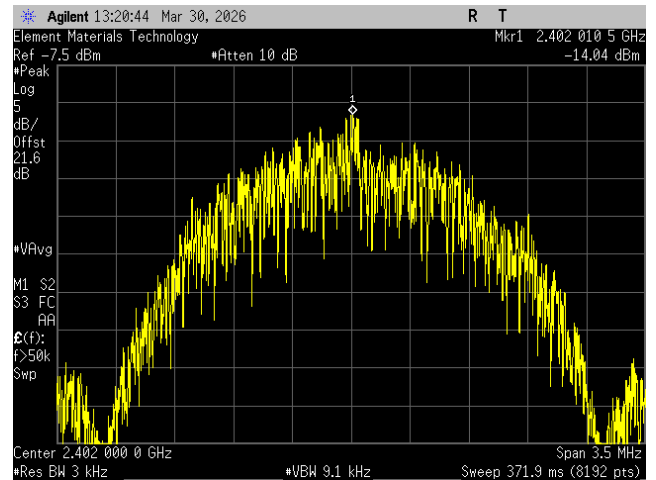


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

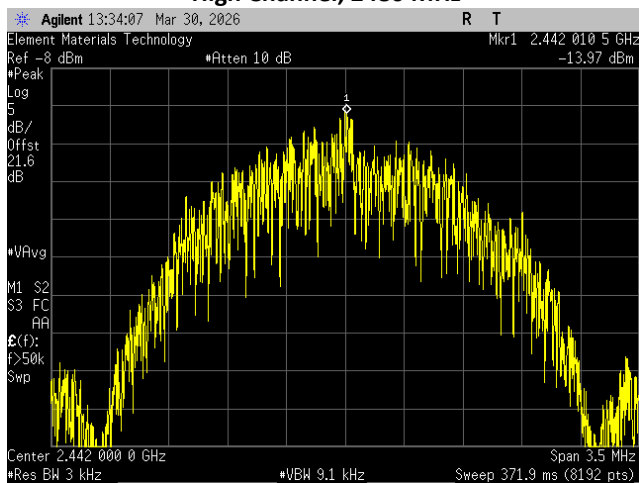
POWER SPECTRAL DENSITY



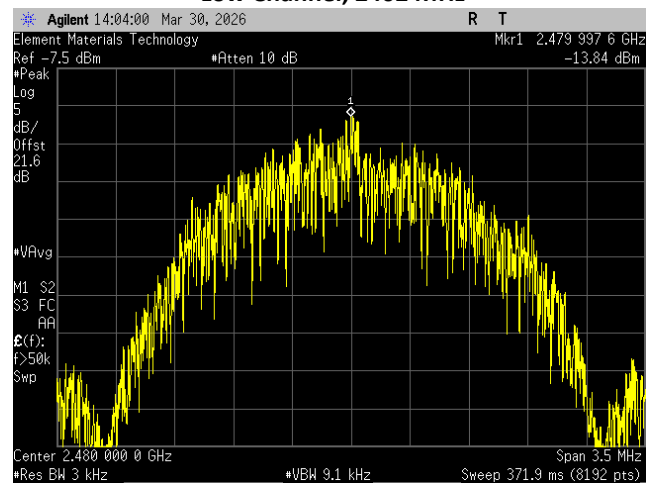
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



**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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

BAND EDGE COMPLIANCE

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

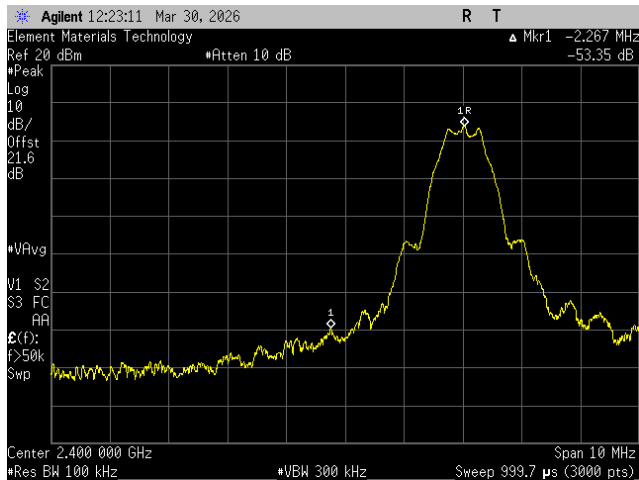


Tested By

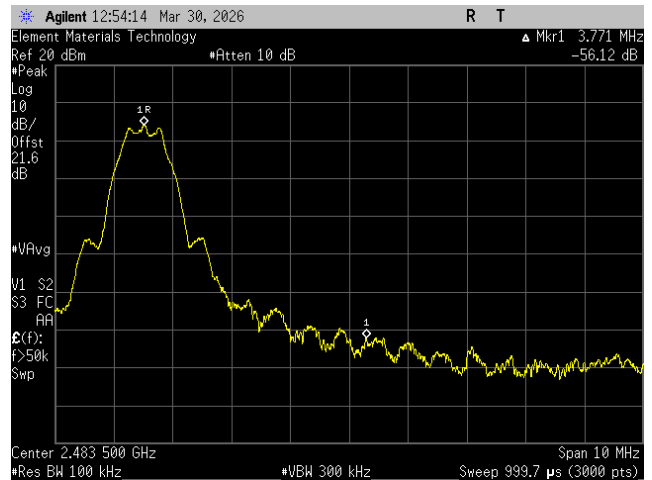
TEST RESULTS

		Value (dBc)	Limit ≤ (dBc)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	-53.35	-20	Pass
	High Channel, 2480 MHz	-56.12	-20	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	-32.26	-20	Pass
	High Channel, 2480 MHz	-55.22	-20	Pass

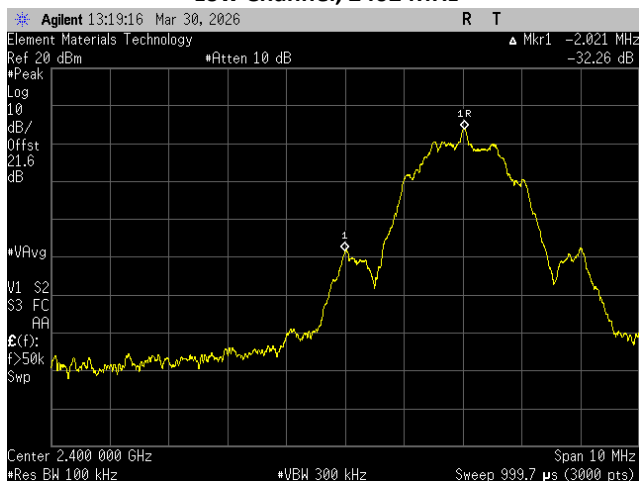
BAND EDGE COMPLIANCE



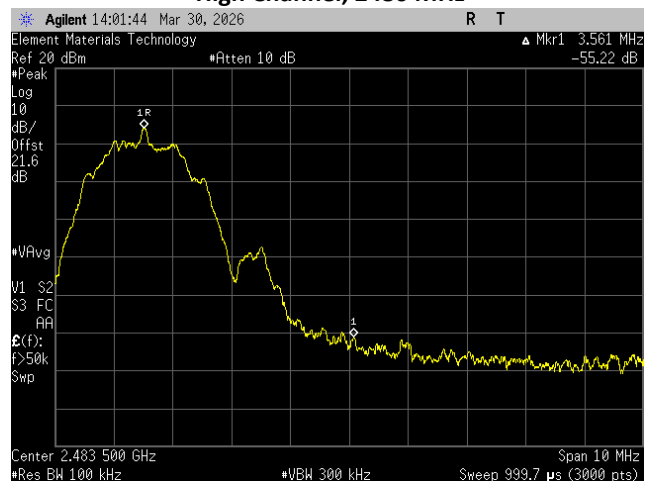
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



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
Generator - Signal	Agilent	E8257D	TGU	2023-11-08	2026-11-08
Cable	Micro-Coax	UFD150A-1-0720-200200	OCA	2025-10-21	2026-10-21
Attenuator	Fairview Microwave	SA18H-20	UAX	2025-07-14	2026-07-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2025-10-06	2027-10-06
Block - DC	Aeroflex	INMET 8535	AMO	2025-12-04	2026-12-04
Power Supply	Tekpower	TP3005P	TSP	NCR	NCR
Meter - Multimeter	Fluke	179	MBB	2026-03-17	2027-03-17

SPURIOUS CONDUCTED EMISSIONS



EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	45	Date:	2026-03-30
Customer:	Nox Medical	Temperature:	23.1°C
Attendees:	None	Relative Humidity:	54.2%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mbar
Tested By:	Nolan De Ramos	Job Site:	OC13
Power:	Battery	Configuration:	NOXM0051-6

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

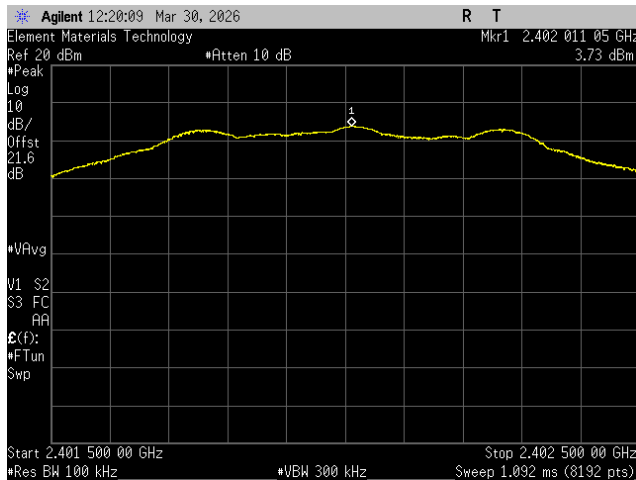
Pass

Tested By

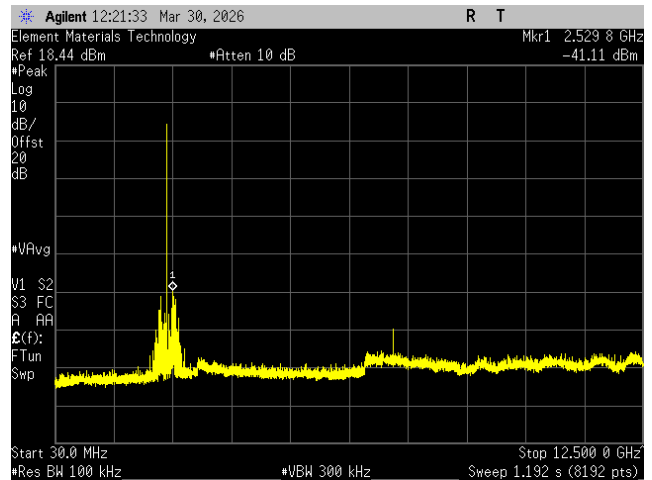
TEST RESULTS

	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	2529.8	-44.84	-20	Pass
	12.5 GHz - 25 GHz	22382.8	-56.1	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2313.6	-45.17	-20	Pass
	12.5 GHz - 25 GHz	21783.1	-56.18	-20	Pass
High Channel, 2480 MHz	Fundamental	2480.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2351.7	-44.96	-20	Pass
	12.5 GHz - 25 GHz	17775.6	-56.77	-20	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	Fundamental	2402.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2514.6	-47.34	-20	Pass
	12.5 GHz - 25 GHz	22387.4	-56.58	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2569.4	-44.64	-20	Pass
	12.5 GHz - 25 GHz	20745.3	-57.15	-20	Pass
High Channel, 2480 MHz	Fundamental	2480.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2607.4	-44.06	-20	Pass
	12.5 GHz - 25 GHz	21758.6	-56.67	-20	Pass

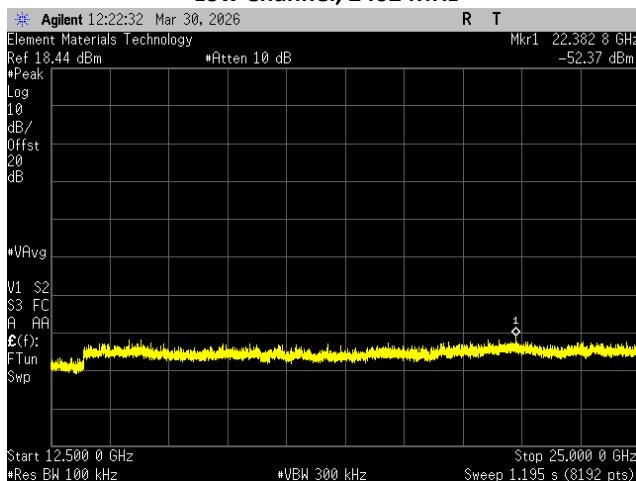
SPURIOUS CONDUCTED EMISSIONS



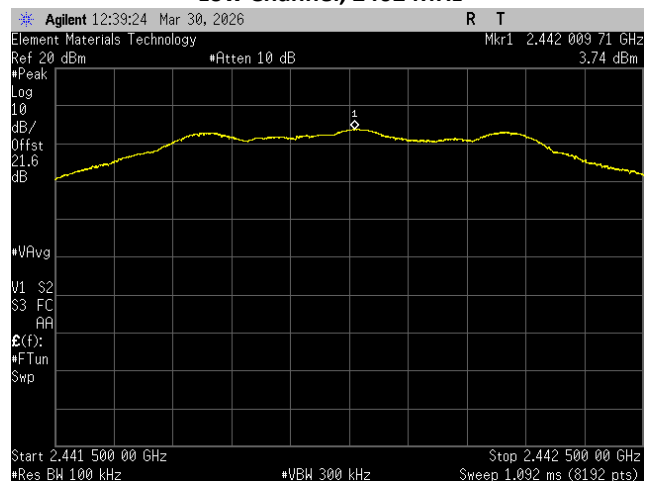
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



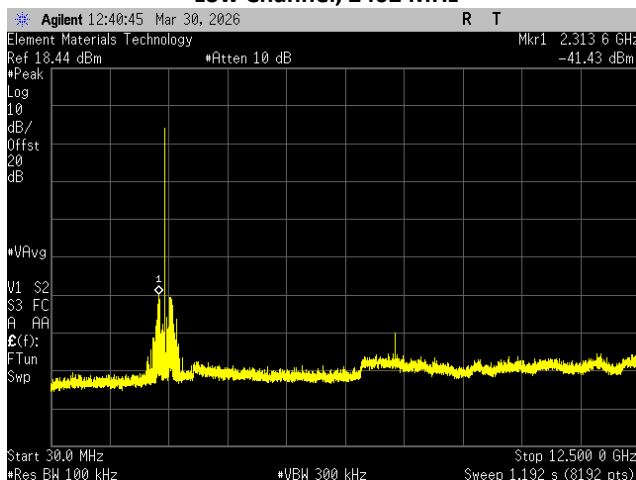
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



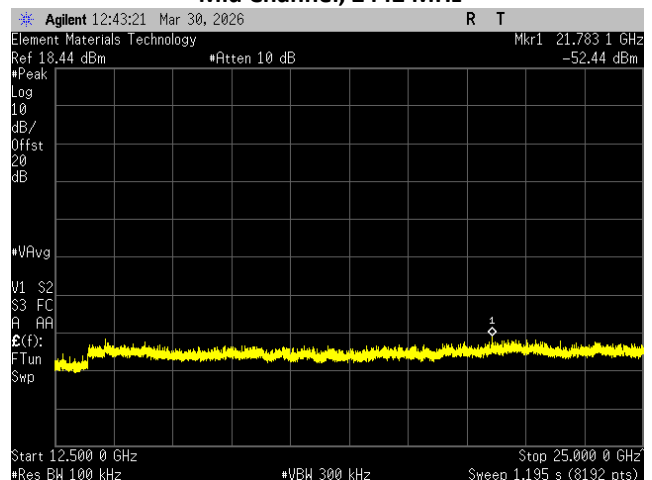
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

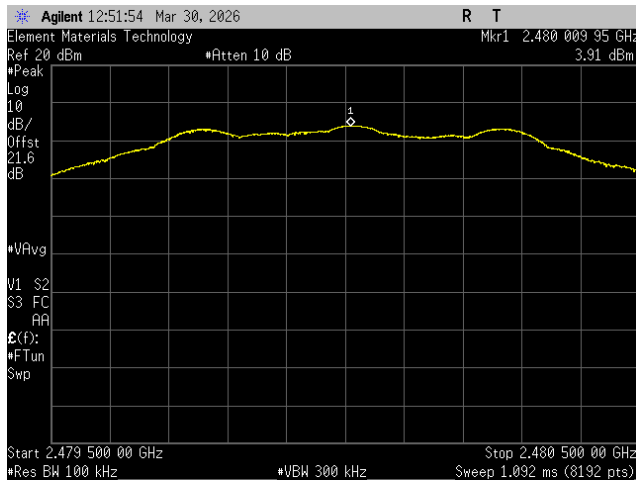


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

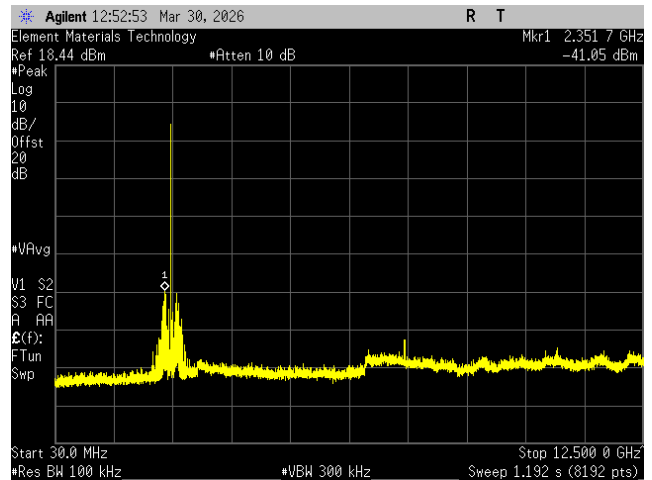


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

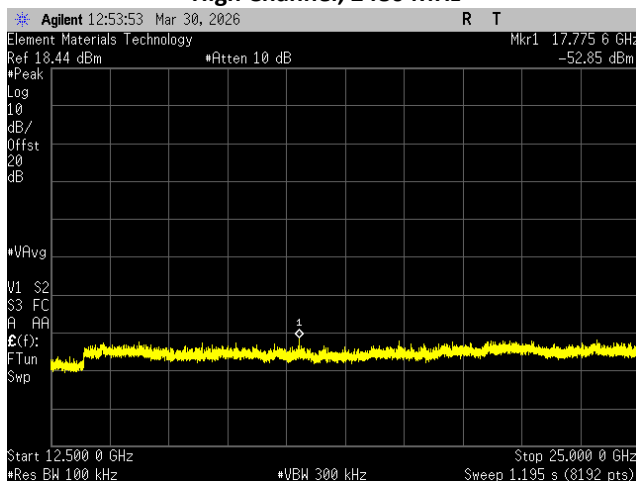
SPURIOUS CONDUCTED EMISSIONS



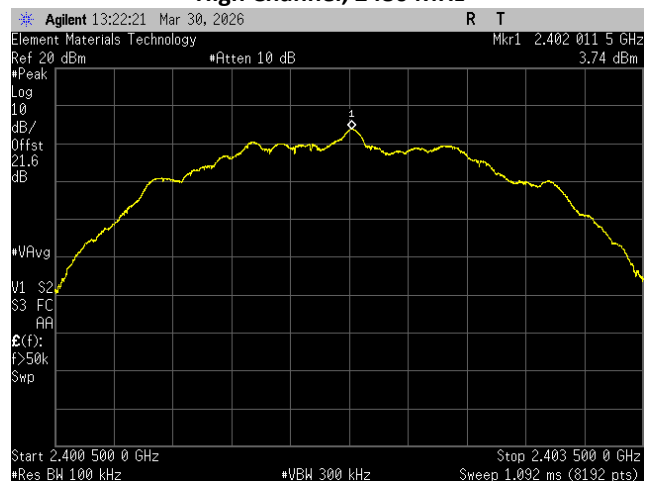
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



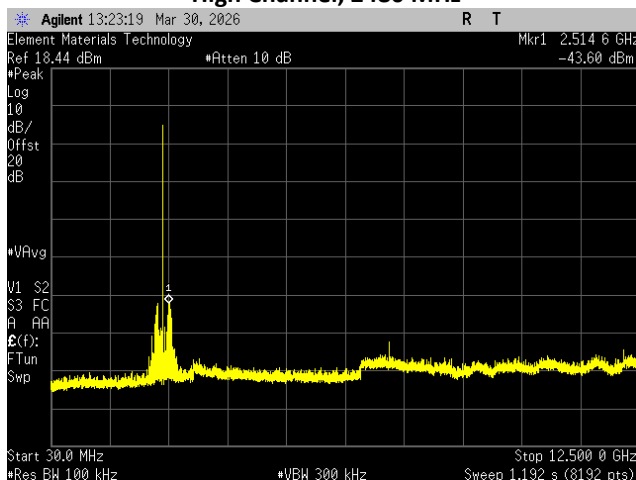
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



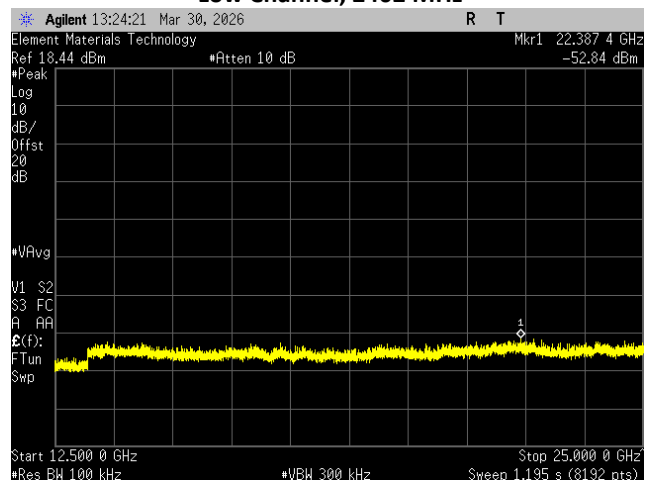
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

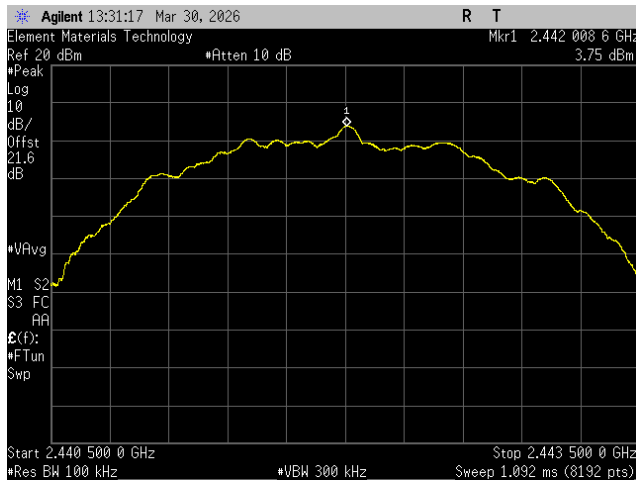


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

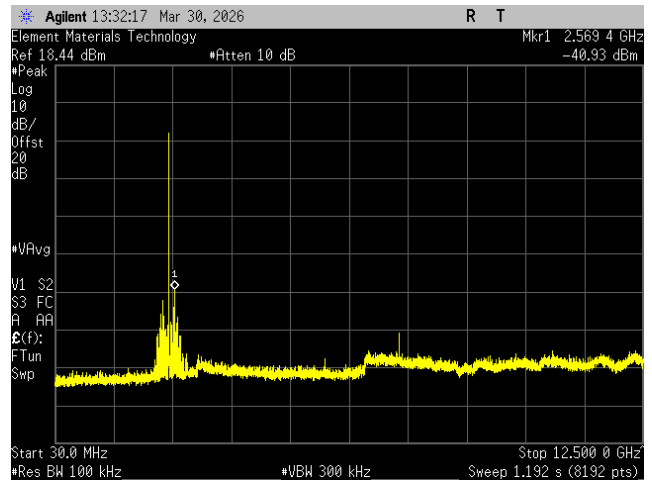


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

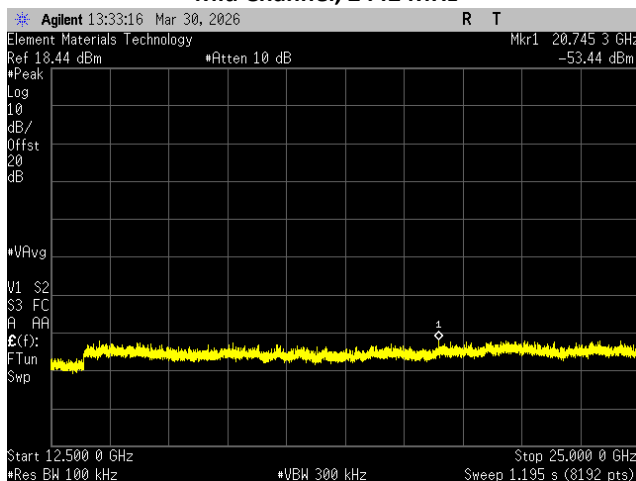
SPURIOUS CONDUCTED EMISSIONS



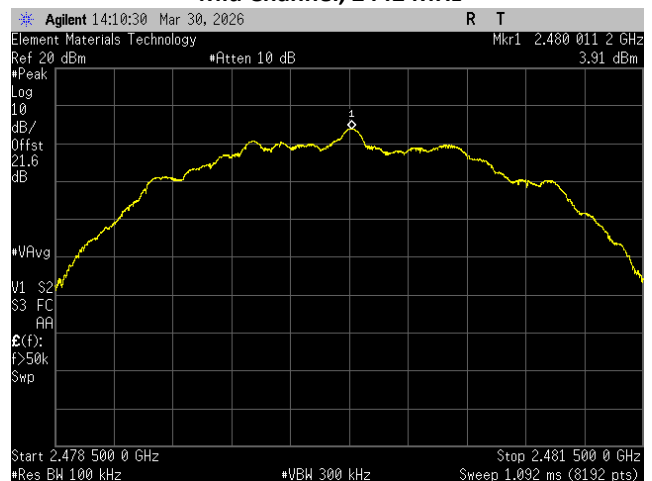
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



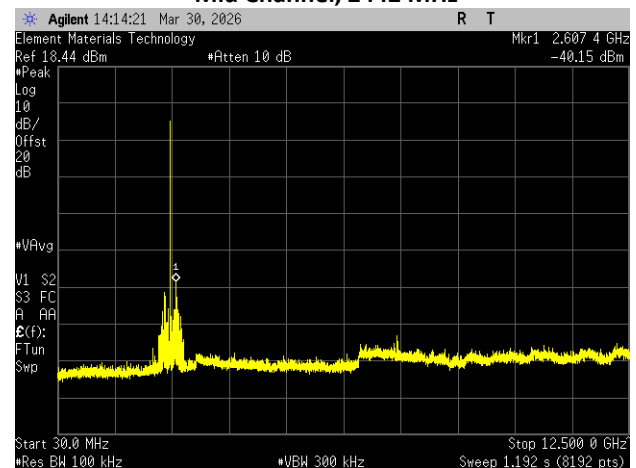
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



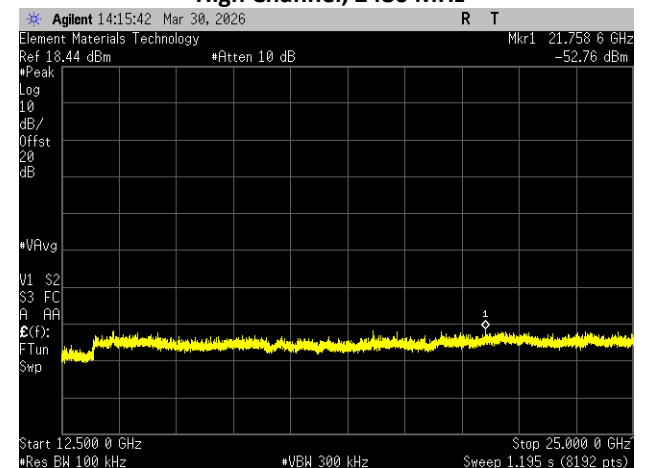
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



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 SPURIOUS EMISSIONS RESTRICTED BAND EDGE



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	AAY	2026-02-27	2027-02-27
Antenna - Double Ridge	ETS Lindgren	3115	AIR	2024-07-23	2026-07-23
Cable	Northwest EMC	1-8GHz RE Cables	OCJ	2025-04-30	2026-04-30
Amplifier - Pre-Amplifier	Cernex	CBL01084020-xx	PAX	2025-04-30	2026-04-30
Attenuator	Fairview Microwave	SA18H-20	TKQ	2025-05-01	2026-05-01

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	210700091	Date:	2026-03-25
Customer:	Nox Medical	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	55.5%
Customer Project:	None	Bar. Pressure (PMSL):	1014 mbar
Tested By:	Nolan De Ramos, Matthew Ng	Job Site:	OC10
Power:	Battery	Configuration:	NOXM0051-5

COMMENTS

Full investigation was performed, and worst-case orientation is reported.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

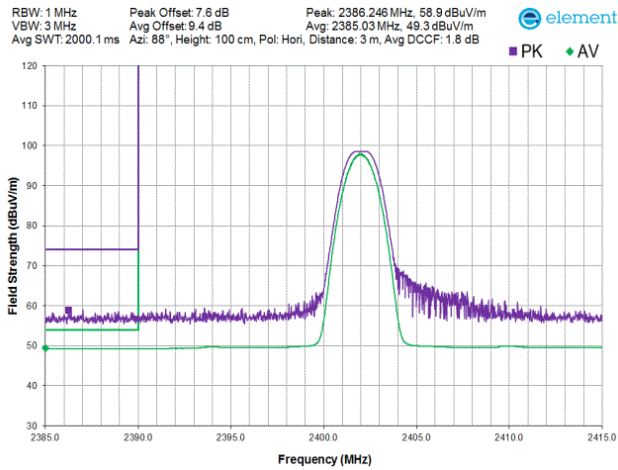
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Tested By

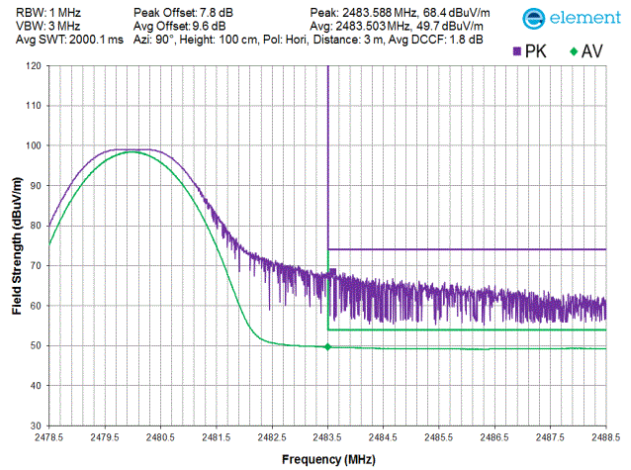
TEST RESULTS

	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	2386.246	58.9	74.0	-4.7	H	on Side	Pass
	2385.030	49.3	54.0				
High Channel, 2480 MHz	2483.588	68.4	74.0	-4.3	H	on Side	Pass
	2483.503	49.7	54.0				
BLE/GFSK 2 Mbps							
Low Channel, 2402 MHz	2387.311	58.2	74.0	-1.9	H	on Side	Pass
	2385.000	52.1	54.0				
High Channel, 2480 MHz	2483.563	66.9	74.0	-1.2	H	on Side	Pass
	2483.503	52.8	54.0				

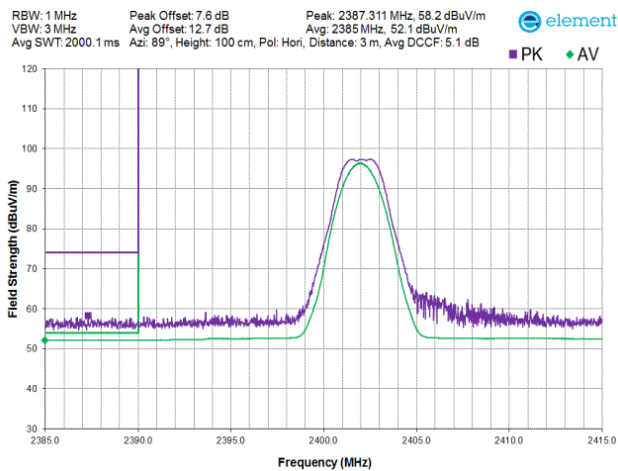
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



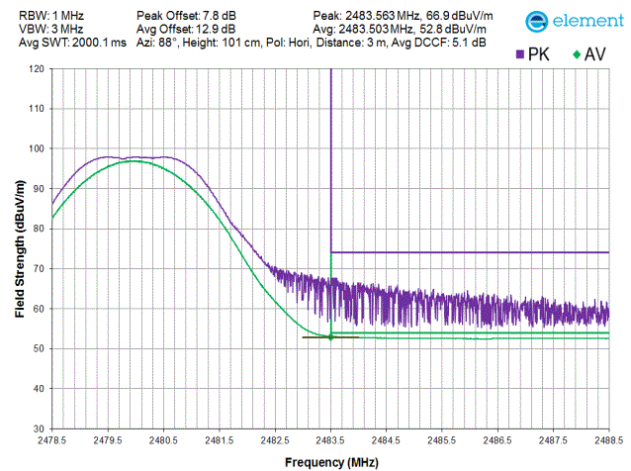
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



**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 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
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	2026-02-27	2027-02-27
Antenna - Loop	EMCO	6502	AZB	2025-09-23	2026-09-23
Antenna - Biconilog	EMCO	3142	AXB	2025-08-21	2027-08-21
Cable	Northwest EMC	3kHz - 1GHz RE Cables	OCB	2025-05-01	2026-05-01
Amplifier - Pre-Amplifier	Miteq	AM-1551	AOX	2025-05-01	2026-05-01
Antenna - Double Ridge	ETS Lindgren	3115	AIR	2024-07-23	2026-07-23
Cable	Northwest EMC	1-8GHz RE Cables	OCJ	2025-04-30	2026-04-30
Amplifier - Pre-Amplifier	Cernex	CBL01084020-xx	PAX	2025-04-30	2026-04-30
Filter - High Pass	Micro-Tronics	HPM50111	HHX	2025-04-30	2026-04-30
Antenna - Standard Gain	ETS Lindgren	3160-07	AHR	2025-12-02	2026-12-02
Cable	Northwest EMC	8-18GHz RE Cables	OCO	2026-03-17	2027-03-17
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	2026-03-24	2027-03-24
Antenna - Standard Gain	ETS Lindgren	3160-08	AHT	2025-12-02	2026-12-02
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	2026-03-23	2027-03-23
Antenna - Standard Gain	ETS Lindgren	3160-09	AHN	2025-12-02	2026-12-02
Cable	Northwest EMC	18-26GHz RE Cables	OCK	2025-12-09	2026-12-09
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	2025-12-09	2026-12-09
Antenna - Standard Gain	ETS Lindgren	3160-10	AIX	2025-12-02	2026-12-02
Cable	ESM Cable Corp.	TTBJ141-KMKM-72	OC1	2025-12-09	2026-12-09
Amplifier - Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVQ	2025-12-09	2026-12-09

SPURIOUS RADIATED EMISSIONS

FREQUENCY RANGE INVESTIGATED

9 kHz TO 40 GHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

NOXM0051-5

MODES INVESTIGATED

Transmitting Bluetooth Low Energy (BLE). ch 37: 2402 MHz, ch 18: 2442 MHz, and ch 39: 2480 MHz, transmit power: +4 dBm, physical layer: LE 1Mbps and LE 2Mbps, packet type: PRBS9, packet length: 37 Bytes.

SPURIOUS RADIATED EMISSIONS

EUT:	Nox S2	Work Order:	NOXM0051
Serial Number:	210700091	Date:	2026-03-24
Customer:	Nox Medical	Temperature:	22.2°C
Attendees:	None	Relative Humidity:	55.7%
Customer Project:	None	Bar. Pressure (PMSL):	1015 mb
Tested By:	Nolan De Ramos	Job Site:	OC10
Power:	Battery	Configuration:	NOXM0051-5

TEST PARAMETERS

Run #:	171	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

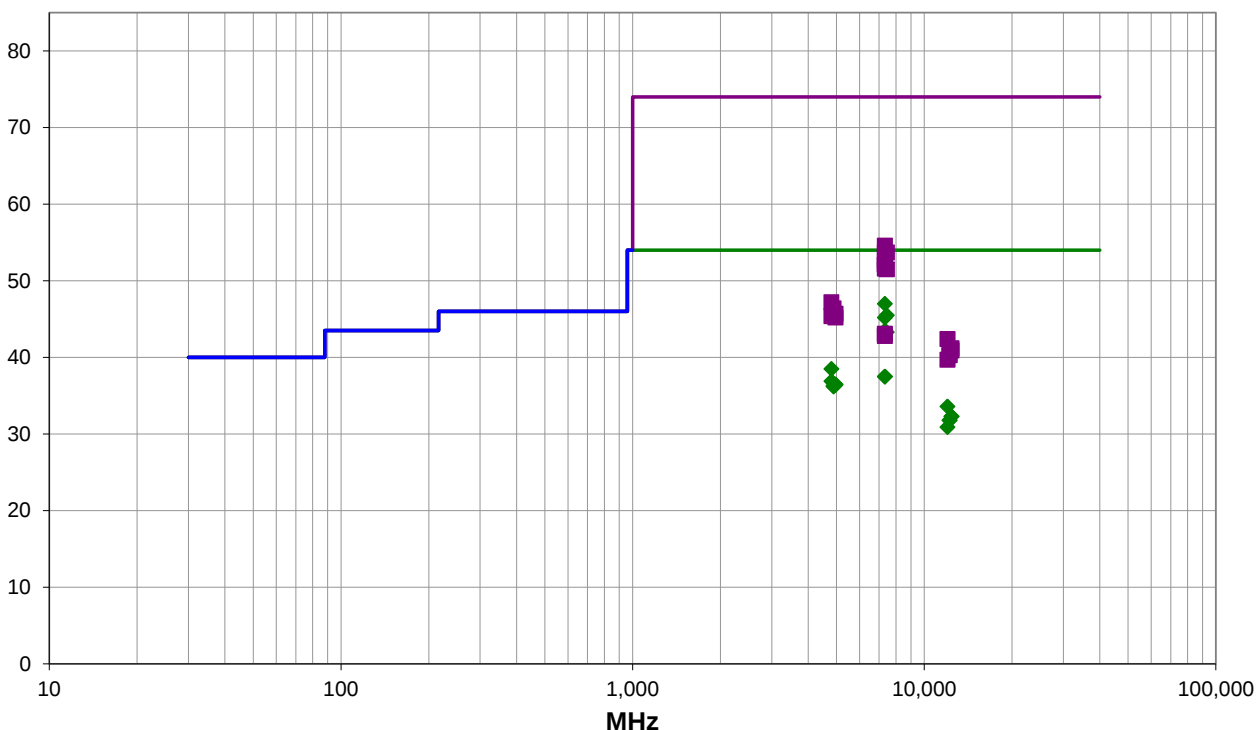
None

EUT OPERATING MODES

Transmitting Bluetooth Low Energy (BLE). ch 37: 2402 MHz, ch 18: 2442 MHz, and ch 39: 2480 MHz, transmit power: +4 dBm, physical layer: LE 1Mbps and LE 2Mbps, packet type: PRBS9, packet length: 37 Bytes.

DEVIATIONS FROM TEST STANDARD

None



Run #: 171

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #171

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
7325.367	38.7	6.5	1.5	148.0	1.8	0.0	Vert	AV	0.0	47.0	54.0	-7.0	Tx 2442 MHz, 1Mbps, EUT Horz
7439.375	37.0	6.7	1.5	231.0	1.8	0.0	Vert	AV	0.0	45.5	54.0	-8.5	Tx 2480 MHz, 1Mbps, EUT Horz
7325.383	36.9	6.5	1.5	322.0	1.8	0.0	Horz	AV	0.0	45.2	54.0	-8.8	Tx 2442 MHz, 1Mbps, EUT Horz
7324.433	35.2	6.5	2.7	325.0	1.8	0.0	Vert	AV	0.0	43.5	54.0	-10.5	Tx 2442 MHz, 1Mbps, EUT Vert
7325.900	35.1	6.5	1.5	159.0	1.8	0.0	Horz	AV	0.0	43.4	54.0	-10.6	Tx 2442 MHz, 1Mbps, EUT on Side
7328.258	35.1	6.5	1.5	74.0	1.8	0.0	Vert	AV	0.0	43.4	54.0	-10.6	Tx 2442 MHz, 1Mbps, EUT on Side
7327.500	35.1	6.5	1.5	94.0	1.8	0.0	Horz	AV	0.0	43.4	54.0	-10.6	Tx 2442 MHz, 1Mbps, EUT Vert
7438.050	34.8	6.7	1.5	215.0	1.8	0.0	Horz	AV	0.0	43.3	54.0	-10.7	Tx 2480 MHz, 1Mbps, EUT Horz
4804.033	40.7	-4.0	1.5	328.0	1.8	0.0	Vert	AV	0.0	38.5	54.0	-15.5	Tx 2402 MHz, 1Mbps, EUT Horz
7327.658	25.9	6.5	1.5	168.0	5.1	0.0	Horz	AV	0.0	37.5	54.0	-16.5	Tx 2442 MHz, 2Mbps, EUT Horz
7327.917	25.9	6.5	1.5	262.0	5.1	0.0	Vert	AV	0.0	37.5	54.0	-16.5	Tx 2442 MHz, 2Mbps, EUT Horz
4804.717	39.1	-4.0	1.5	170.0	1.8	0.0	Horz	AV	0.0	36.9	54.0	-17.1	Tx 2402 MHz, 1Mbps, EUT Horz
4960.158	38.3	-3.6	1.5	108.0	1.8	0.0	Horz	AV	0.0	36.5	54.0	-17.5	Tx 2480 MHz, 1Mbps, EUT Horz
4959.325	38.2	-3.6	1.5	30.0	1.8	0.0	Vert	AV	0.0	36.4	54.0	-17.6	Tx 2480 MHz, 1Mbps, EUT Horz
4885.850	38.3	-3.8	1.5	357.0	1.8	0.0	Vert	AV	0.0	36.3	54.0	-17.7	Tx 2442 MHz, 1Mbps, EUT Horz
4886.267	38.2	-3.8	1.5	326.0	1.8	0.0	Horz	AV	0.0	36.2	54.0	-17.8	Tx 2442 MHz, 1Mbps, EUT Horz
7325.133	48.1	6.5	1.5	148.0	0.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	Tx 2442 MHz, 1Mbps, EUT Horz
7325.333	47.2	6.5	1.5	322.0	0.0	0.0	Horz	PK	0.0	53.7	74.0	-20.3	Tx 2442 MHz, 1Mbps, EUT Horz
7439.033	47.0	6.7	1.5	231.0	0.0	0.0	Vert	PK	0.0	53.7	74.0	-20.3	Tx 2480 MHz, 1Mbps, EUT Horz
12008.910	36.5	-4.7	1.6	297.0	1.8	0.0	Horz	AV	0.0	33.6	54.0	-20.4	Tx 2402 MHz, 1Mbps, EUT Horz
7327.667	46.1	6.5	1.5	94.0	0.0	0.0	Horz	PK	0.0	52.6	74.0	-21.4	Tx 2442 MHz, 1Mbps, EUT Vert
12397.510	31.8	-1.3	1.5	295.0	1.8	0.0	Horz	AV	0.0	32.3	54.0	-21.7	Tx 2480 MHz, 1Mbps, EUT Horz
12397.910	31.8	-1.3	3.0	249.0	1.8	0.0	Vert	AV	0.0	32.3	54.0	-21.7	Tx 2480 MHz, 1Mbps, EUT Horz
7327.983	45.6	6.5	1.5	74.0	0.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Tx 2442 MHz, 1Mbps, EUT on Side
7323.800	45.6	6.5	2.7	325.0	0.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Tx 2442 MHz, 1Mbps, EUT Vert
12212.240	32.5	-2.5	1.7	226.0	1.8	0.0	Horz	AV	0.0	31.8	54.0	-22.2	Tx 2442 MHz, 1Mbps, EUT Horz
12212.320	32.5	-2.5	1.5	91.0	1.8	0.0	Vert	AV	0.0	31.8	54.0	-22.2	Tx 2442 MHz, 1Mbps, EUT Horz
7323.817	45.1	6.5	1.5	159.0	0.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	Tx 2442 MHz, 1Mbps, EUT on Side
7440.683	44.8	6.7	1.5	215.0	0.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Tx 2480 MHz, 1Mbps, EUT Horz
12008.220	33.8	-4.7	1.5	175.0	1.8	0.0	Vert	AV	0.0	30.9	54.0	-23.1	Tx 2402 MHz, 1Mbps, EUT Horz
4803.767	51.2	-4.0	1.5	328.0	0.0	0.0	Vert	PK	0.0	47.2	74.0	-26.8	Tx 2402 MHz, 1Mbps, EUT Horz
4882.875	50.2	-3.8	1.5	357.0	0.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	Tx 2442 MHz, 1Mbps, EUT Horz
4960.308	49.3	-3.6	1.5	108.0	0.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3	Tx 2480 MHz, 1Mbps, EUT Horz
4881.758	49.3	-3.8	1.5	326.0	0.0	0.0	Horz	PK	0.0	45.5	74.0	-28.5	Tx 2442 MHz, 1Mbps, EUT Horz
4803.925	49.4	-4.0	1.5	170.0	0.0	0.0	Horz	PK	0.0	45.4	74.0	-28.6	Tx 2402 MHz, 1Mbps, EUT Horz
4958.058	48.8	-3.6	1.5	30.0	0.0	0.0	Vert	PK	0.0	45.2	74.0	-28.8	Tx 2480 MHz, 1Mbps, EUT Horz
7327.783	36.6	6.5	1.5	168.0	0.0	0.0	Horz	PK	0.0	43.1	74.0	-30.9	Tx 2442 MHz, 2Mbps, EUT Horz
7328.208	36.3	6.5	1.5	262.0	0.0	0.0	Vert	PK	0.0	42.8	74.0	-31.2	Tx 2442 MHz, 2Mbps, EUT Horz
12010.170	47.1	-4.7	1.6	297.0	0.0	0.0	Horz	PK	0.0	42.4	74.0	-31.6	Tx 2402 MHz, 1Mbps, EUT Horz

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
12399.840	42.5	-1.3	1.5	295.0	0.0	0.0	Horz	PK	0.0	41.2	74.0	-32.8	Tx 2480 MHz, 1Mbps, EUT Horz
12398.350	42.2	-1.3	3.0	249.0	0.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	Tx 2480 MHz, 1Mbps, EUT Horz
12210.260	42.9	-2.6	1.7	226.0	0.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	Tx 2442 MHz, 1Mbps, EUT Horz
12210.620	42.9	-2.6	1.5	91.0	0.0	0.0	Vert	PK	0.0	40.3	74.0	-33.7	Tx 2442 MHz, 1Mbps, EUT Horz
12010.360	44.5	-4.8	1.5	175.0	0.0	0.0	Vert	PK	0.0	39.7	74.0	-34.3	Tx 2402 MHz, 1Mbps, EUT Horz

CONCLUSION

Pass



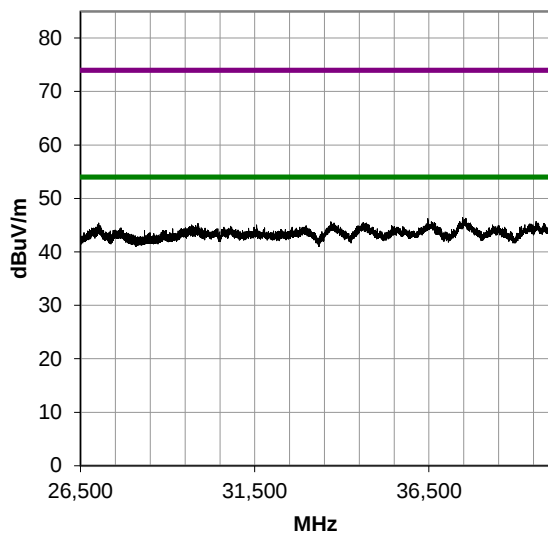
Tested By

SPURIOUS RADIATED EMISSIONS

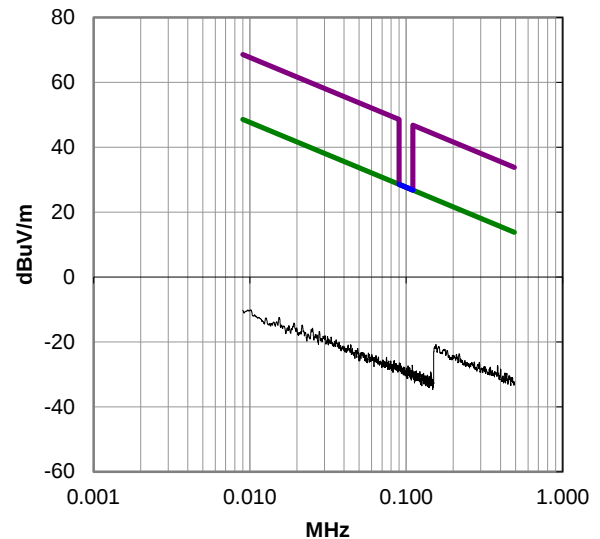
PRESCAN DATA

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.

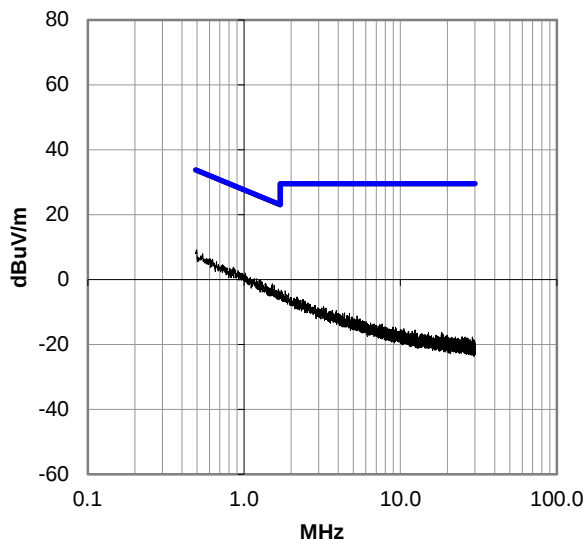
26500-40000 MHz, Run 178



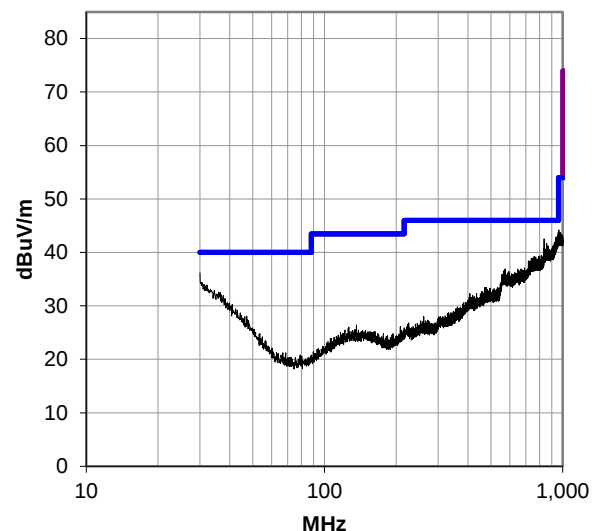
0.009-0.49 MHz, Run 194



0.49-30 MHz, Run 195

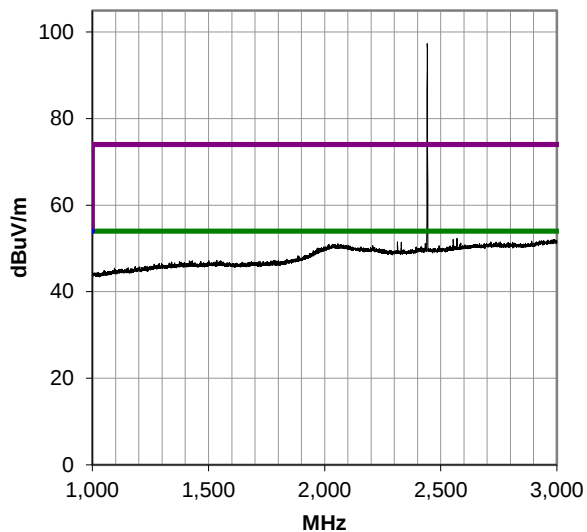


30-1000 MHz, Run 189

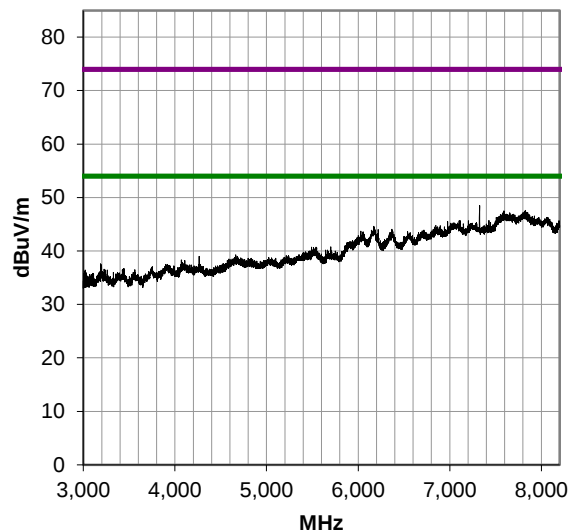


SPURIOUS RADIATED EMISSIONS

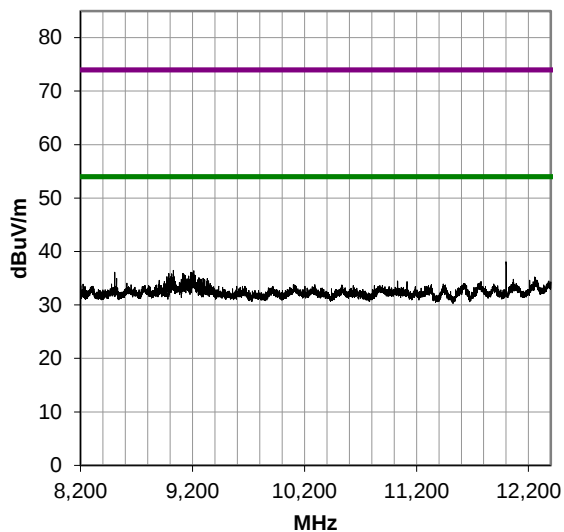
1000-3000 MHz, Run 145



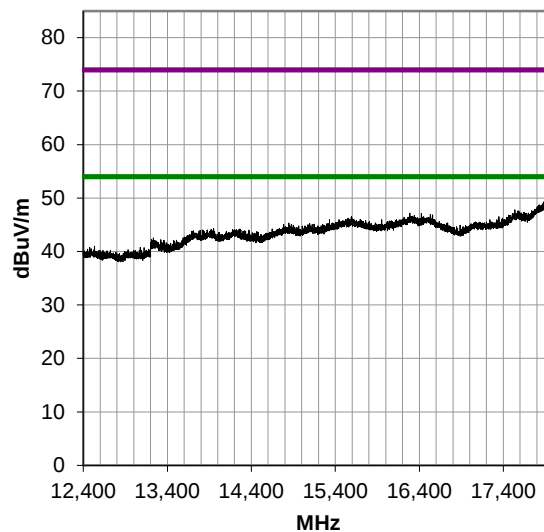
3000-8200 MHz, Run 146



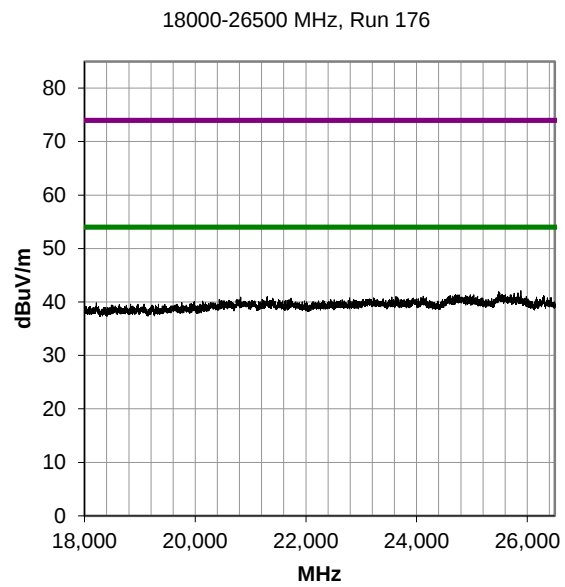
8200-12400 MHz, Run 147



12400-18000 MHz, Run 170



SPURIOUS RADIATED EMISSIONS



End of Test Report