

Assa Abloy Access and Egress Hardware Group Inc.

TEST REPORT

SCOPE OF WORK

Emissions Testing – Accentra NTM-Touch Screen and Accentra NTM-Push Button

REPORT NUMBER

105779713BOX-006b.3

ISSUE DATE

November 10, 2025

[REVISED DATE]

February 12, 2026

DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. October 2022
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EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 105779713BOX-006b.3

Project Number: G105779713

Report Issue Date: November 10, 2025

Report Revision Date: February 12, 2026

Model(s) Tested: Accentra NTM-Touch Screen and
Accentra NTM-Push Button

Model(s) Partially Tested: None

Model(s) Not Tested but declared equivalent by the client: None

Standards: CFR47 FCC Part 15 Subpart C, Section 15.247: 11/2025
CFR47 FCC Part 15 Subpart C, Section 15.225: 11/2025
CFR47 FCC Part 15 Subpart C, Section 15.209: 11/2025
CFR47 FCC Part 15 Subpart C, Section 15.205: 11/2025
CFR47 FCC Part 15 Subpart B 15.109: 11/2025
RSS-247 Issue 4 August 2025
RSS-210 Issue 11 June 25, 2024
ISED ICES-003 Issue 7 October 2020
KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019
RSS-Gen Issue 5 April 2018 +Amendment 1 March 2019

Tested by:
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Boxborough, MA 01719
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Client:
Assa Abloy Access and Egress Hardware Group Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Report prepared by



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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	--
4	Description of Equipment Under Test and Variant Models	--
5	System Setup and Method	--
6	Transmitter spurious emissions CFR47 FCC Part 15 Subpart C, Section 15.247 (d): 11/2025 CFR47 FCC Part 15 Subpart C, Section 15.225 (b) (c) (d): 11/2025 RSS-247 Issue 4 August 2025 RSS-210 Issue 11 June 25, 2024	Pass
7	Digital Device Radiated Spurious Emissions CFR47 FCC Part 15 Subpart B 15.109: 11/2025 ISED ICES-003 Issue 7 October 2020	Pass
---	AC Mains Conducted Emissions FCC 47CFR Part 15.107: 11/2025 ISED ICES-003 Issue 7 October 2020	N/A*
8	Revision History	--

*Notes: The EUT is battery powered. The radio does not transmit simultaneously in normal operation.

3 Client Information**This EUT was tested at the request of:**

Client: Assa Abloy Access and Egress Hardware Group Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Contact: Dave Debiase
Telephone: 203-821-5724
Email: dave.debiase@assaabloy.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Assa Abloy Access and Egress Hardware Group Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Electronic access control system with (Touch Screen)	Sargent Manufacturing Company	NTM	None
Electronic access control system with (Push Button)	Sargent Manufacturing Company	NTM	RX0VN703732

Receive Date:	05/01/2024, 10/22/2025
Received Condition:	Good
Type:	Production
Test Date(s):	05/01/2024, 05/02/2024, 05/06/2024, 06/24/2024, 10/22/2025

Description of Equipment Under Test (provided by client)
Electronics access control system. It contains the radio modules as listed in the Radio/Receiver Characteristics table

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
6 V (4 x 1.5 V Batteries)	1.5 A	DC	N/A

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	BLE – Programmed to transmit continuously with modulation at Low, Mid, and High channels
2	13.56 MHz RFID – Pre-programmed to transmit continuously with modulation.

Software used by the EUT:

No.	Descriptions of EUT Exercising
1	BLE – nRF Connect for Desktop V4.4.0
2	13.56 MHz RFID – No software used

13.56 MHz RFID

Radio/Receiver Characteristics	
Frequency Band (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID: 11626A-NTM600PBACC
Frequency Band (NTM Touchscreen)	See FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Modulation Type (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID: 11626A-NTM600PBACC
Modulation Type (Touchscreen)	See FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Maximum Field Strength (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID: 11626A-NTM600PBACC
Maximum Field Strength (NTM Touch Screen)	See FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Test Channels (NTM Push Button & Touchscreen)	13.56 MHz
Occupied Bandwidth (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID: 11626A-NTM600PBACC
Occupied Bandwidth (NTM Touchscreen)	See FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Equipment Type	Standalone
Antenna Type and Gain	Integral

Bluetooth Low Energy (BLE)

Radio/Receiver Characteristics	
Frequency Band (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID:11626A-NTM600PBACC
Frequency Band (NTM Touchscreen)	FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Modulation Type (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID:11626A-NTM600PBACC
Modulation Type (Touchscreen)	FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Maximum Output Power (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID:11626A-NTM600PBACC
Maximum Output Power (NTM Touch Screen)	FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Test Channels (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID:11626A-NTM600PBACC
Test Channels (NTM Touchscreen)	FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Occupied Bandwidth (NTM Push Button)	See FCC ID: 2ABFG-NTM600PBACC IC ID:11626A-NTM600PBACC
Occupied Bandwidth (NTM Touchscreen)	FCC ID: 2ABFG-NTM600TSACC IC ID: 11626A-NTM600TSACC
Equipment Type	Standalone
Antenna Type and Gain	-0.20 dBi

Notes: PCB changes. No changes to the radio circuitry.

Variant Models:

Intertek does not make any claims of compliance for samples or variants which were not tested.

None

5 System Setup and Method

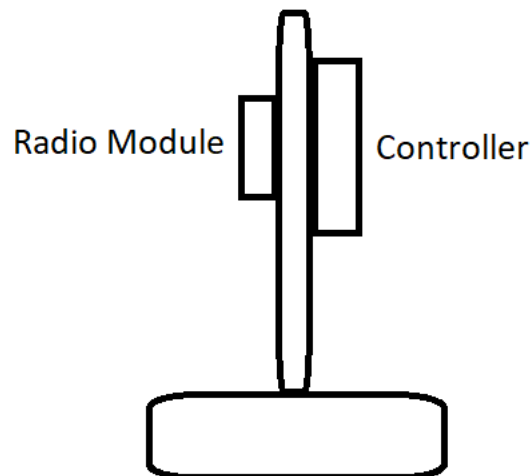
Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
--	None	N/A	N/A	N/A	N/A

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
None	N/A	N/A	N/A

5.1 Method:

Configuration as required by ANSI C63.10-2013, ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019, RSS-247 Issue 4 August 2025, RSS-210 Issue 11 June 25, 2024, RSS-Gen Issue 5 April 2018 +Amendment 1 March 2019, ANSI C63.4:2014.

5.2 EUT Block Diagram:



6 Transmitter spurious emissions

6.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C 15.247, FCC Part 15 Subpart B, RSS 247, ISSED ICES 003, ANSI C 63.10, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

- FS = Field Strength in dBμV/m
- RA = Receiver Amplitude (including preamplifier) in dBμV
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of

1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0

UF = $10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the “Level” includes all losses and gains and is compared directly in the “Margin” column to the “Limit”. The “Correction” includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the “Level” column.

6.2 Limits

Limits – FCC Part §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

Limits – FCC Part §15.225 (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in FCC Part §15.209.

Limits – FCC Part §15.209 (a) The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	$2400/F(\text{kHz})$	300
0.490–1.705	$24000/F(\text{kHz})$	30
1.705–30.0	30	30
30–88	100	3
88–216	150	3
216–960	200	3
Above 960	500	3

Notes: The limits for RSS-247 and RSS-210 are the same as the FCC limits above.

6.3 Test Equipment Used:

Test equipment used from 9 kHz-30 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
145019'	Active Loop Antenna (9 KHz to 30 MHz)	EMCO	6502/1	9902-3267	03/05/2024	03/05/2025
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
145-406'	10m Track A In-floor Cable #1	Huber + Suhner	sucoflex 160-19220mm	001	07/19/2023	07/19/2024
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/19/2023	07/19/2024
147-326'	Immunity Cable	Huber + Suhner	Sucoflex 106	233089-005	07/19/2023	07/19/2024
PRE11'	50dB gain pre-amp	Pasternack	PRE11	PRE11	09/15/2023	09/15/2024
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	09/14/2023	09/14/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 30-1000 MHz on 10/22/2025

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
147-508'	10m Chamber	ETS-Lindgren	Fact 10	AJ1124-1	09/06/2023	09/06/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	01/23/2025	01/23/2026
147-326'	Immunity Cable	Huber + Suhner	Sucoflex 106	233089-005	07/14/2025	07/14/2026
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	05/28/2025	05/28/2026
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	02/04/2025	02/04/2026
145145'	Broadband Hybrid Antenna 30 MHz-3GHz	Sunol Sciences Corp.	JB3	A122313	07/17/2025	07/17/2026
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	03/03/2025	03/03/2026

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 1-3 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
PRE12'	Pre-amplifier	Com Power	PAM-118A	18040117	12/26/2023	12/26/2024
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	10/16/2023	10/16/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024
REA008	band reject filter 2.4GHz	Reactel, Inc	12RX7-2441.75-x140 S	17-01	10/31/2023	10/31/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 3-18 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
PRE12'	Pre-amplifier	Com Power	PAM-118A	18040117	12/26/2023	12/26/2024
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	10/16/2023	10/16/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024
REA004'	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	02/27/2024	02/27/2025

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 18-25 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	02/27/2024	02/27/2025
CBLHF2012-2M-1'	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/27/2024	02/27/2025
EMC018'	18-40GHz Pre-amp 40dB gain	The EMC Shop	PA40G	27490-01	07/18/2023	07/18/2024
REA006'	18GHz High Pass Filter	Reactel, Inc	7HS-18G/40G K11	(06)1	04/23/2024	04/23/2025
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	02/13/2024	02/13/2025

Software Utilized:

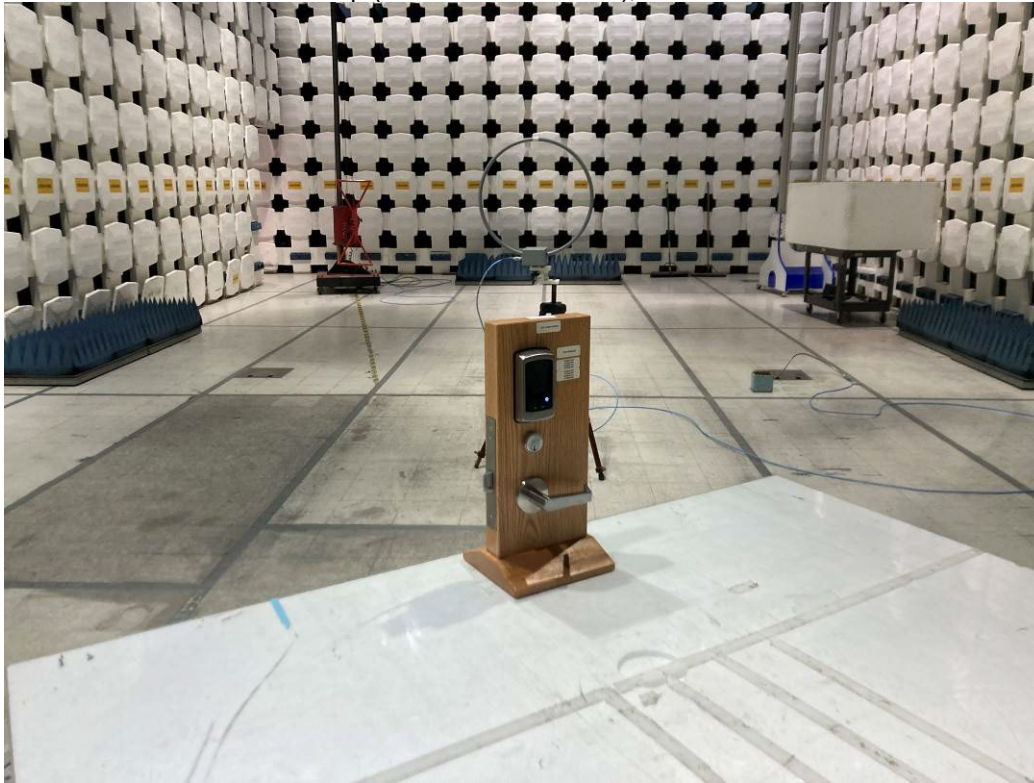
Name	Manufacturer	Version
None	N/A	N/A

6.4 Results:

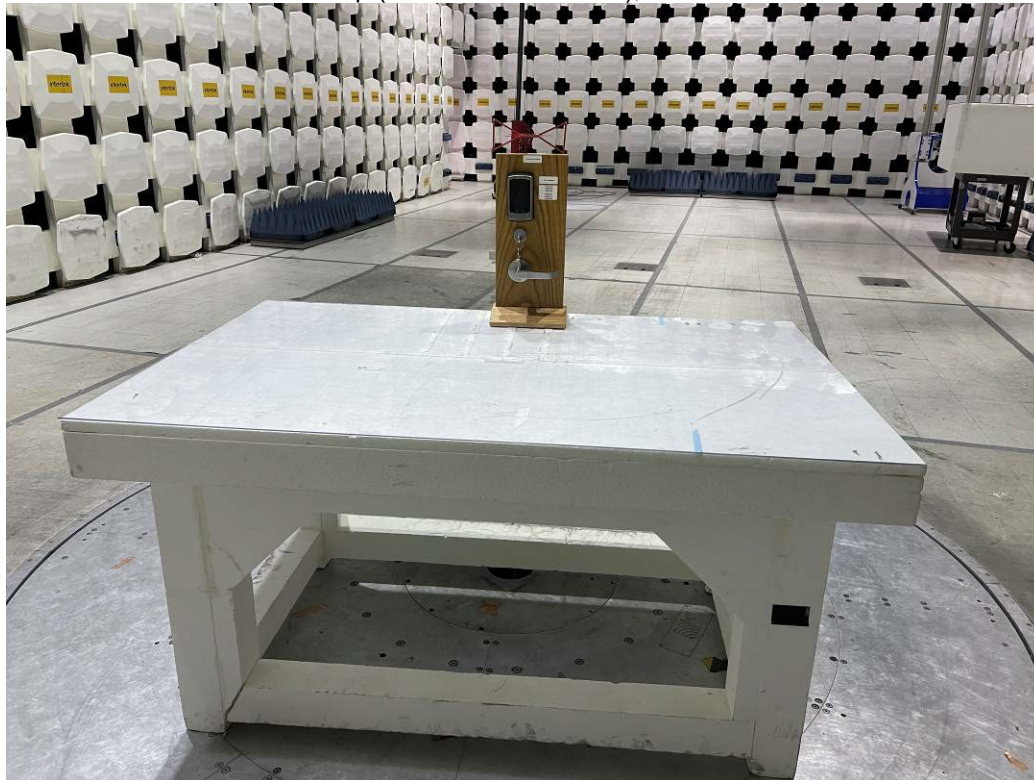
The sample tested was found to Comply.

6.5 Setup Photographs:

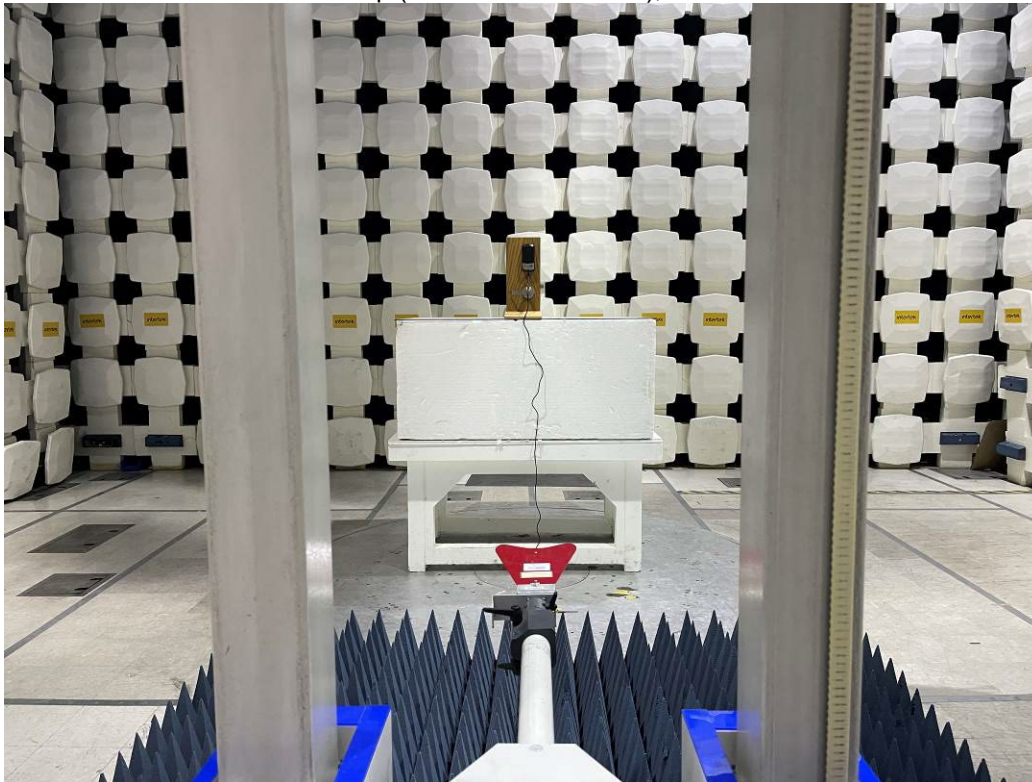
Test Setup (NTM-Touch Screen), 9 kHz-30 MHz



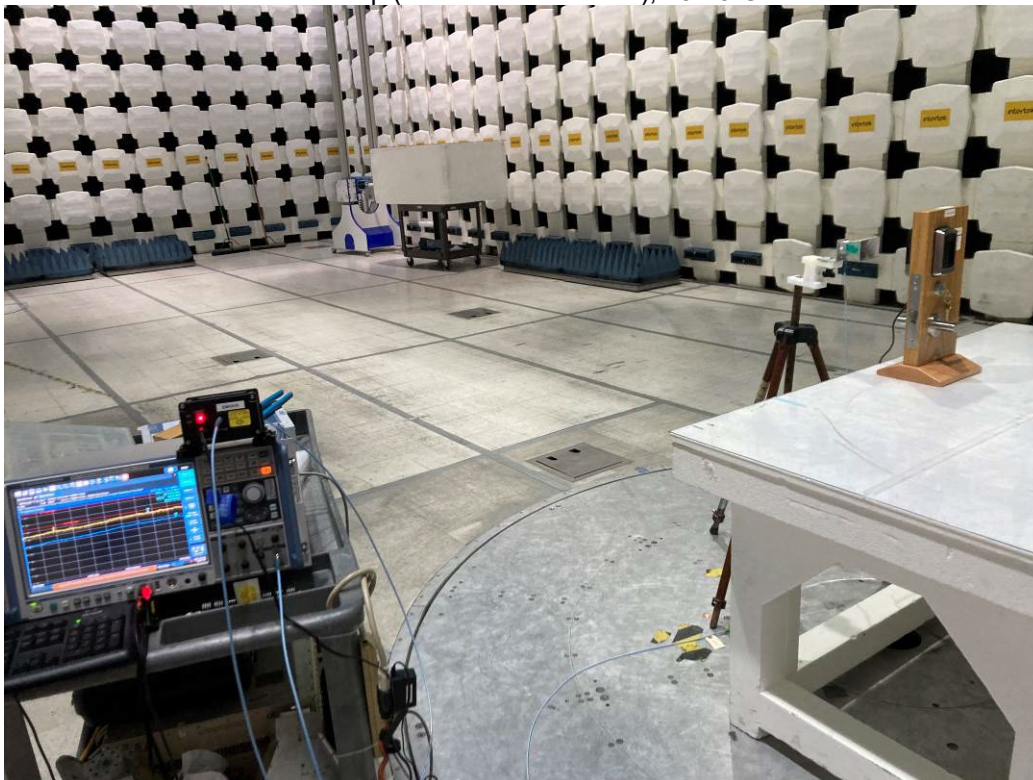
Test Setup (NTM-Touch Screen), 30-1000 MHz



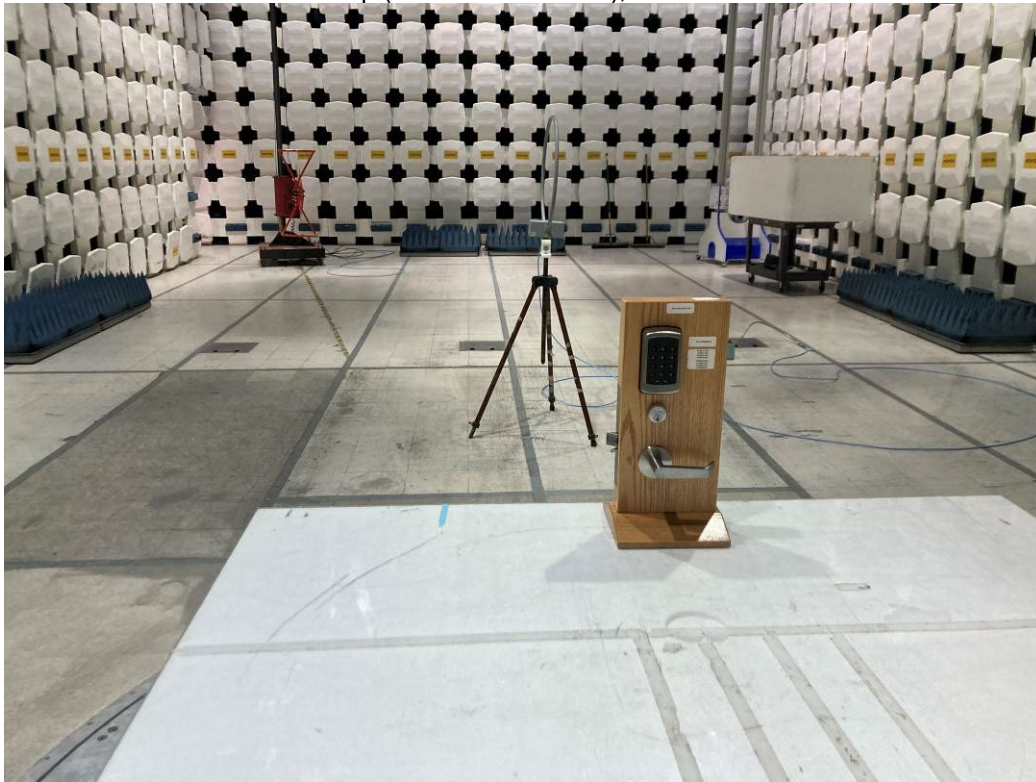
Test Setup (NTM–Touch Screen), 1-18 GHz



Test Setup (NTM–Touch Screen), 18-25 GHz



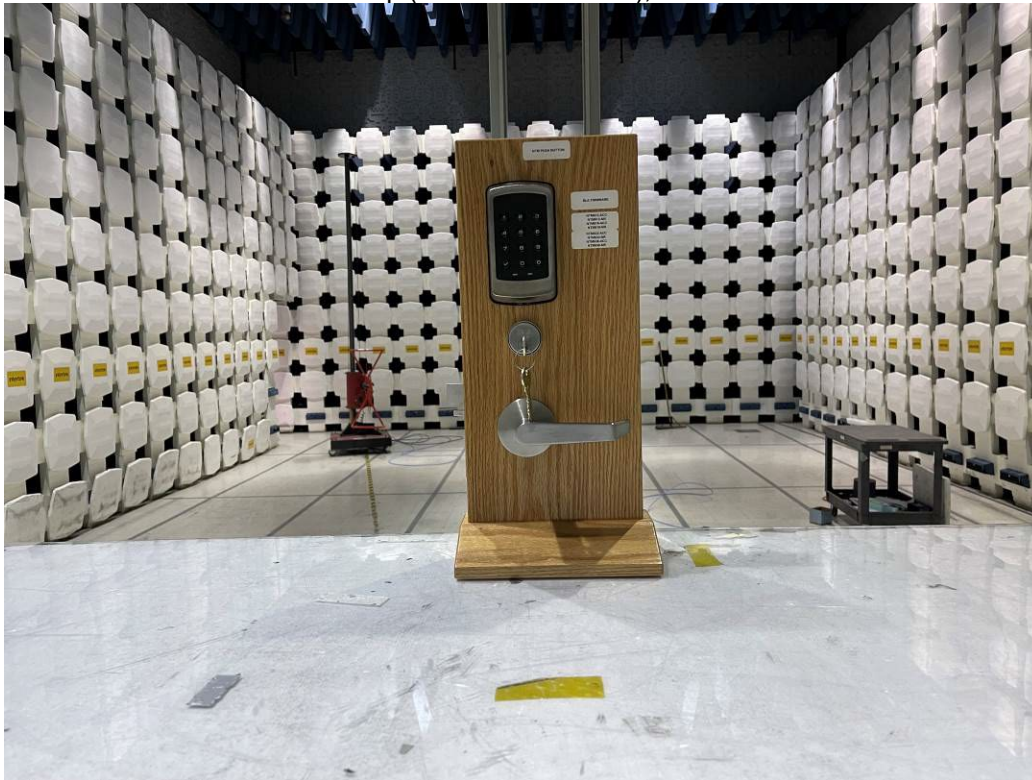
Test Setup (NTM–Push Button), 9 kHz-30 MHz



Test Setup (NTM–Push Button), 30-1000 MHz



Test Setup (NTM–Push Button), 1-18 GHz



RFID Test Setup (NTM–Push Button), 18-25 GHz



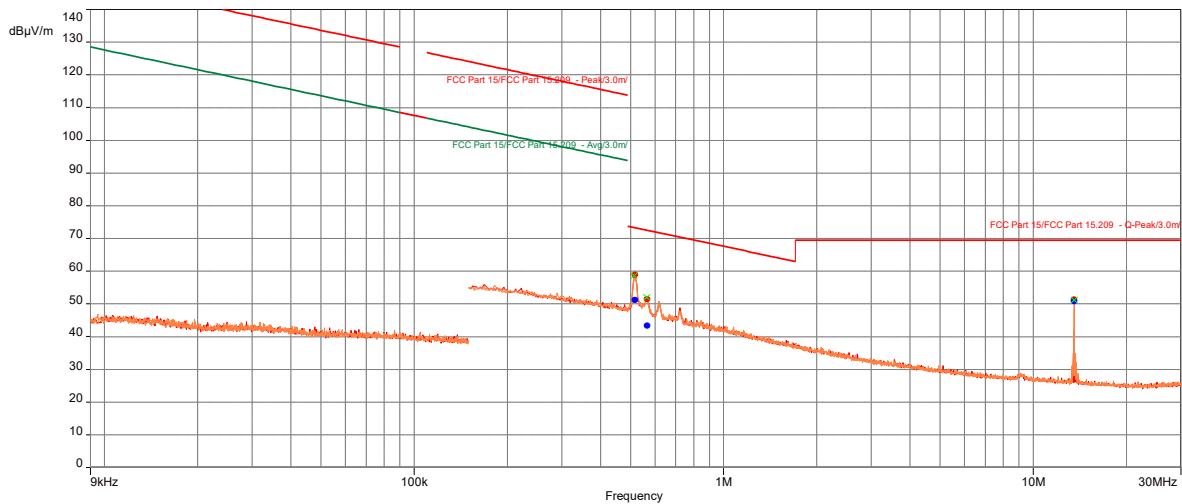
6.6 Plots/Data:

13.56 MHz RFID (NTM-Touch Screen), 9 kHz-30 MHz

Test Information:

Date and Time	5/6/2024 5:58:30 PM
Client and Project Number	Assa Abloy
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	41 %
Atmospheric Pressure	1001 mbars
Comments	Scan 53_RFID - NTM- Touch Screen, Tx (Worst-case channel) RE 9kHz-30MHz (FCC 15.209)

Graph:



Results:

Peak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.51675	58.95	73.34	-14.39	342.60	Vertical	9k	1	13.25
0.56557	51.49	72.54	-21.06	294.10	Vertical	9k	1	13.21
13.56023	51.38	69.54	-18.16	169.70	Vertical	9k	1	12.01

QuasiPeak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.51675	51.21	73.34	-22.13	342.60	Vertical	9k	1	13.25
0.56557	43.43	72.54	-29.11	294.10	Vertical	9k	1	13.21
13.56023	50.91	69.54	-18.63	169.70	Vertical	9k	1	12.01

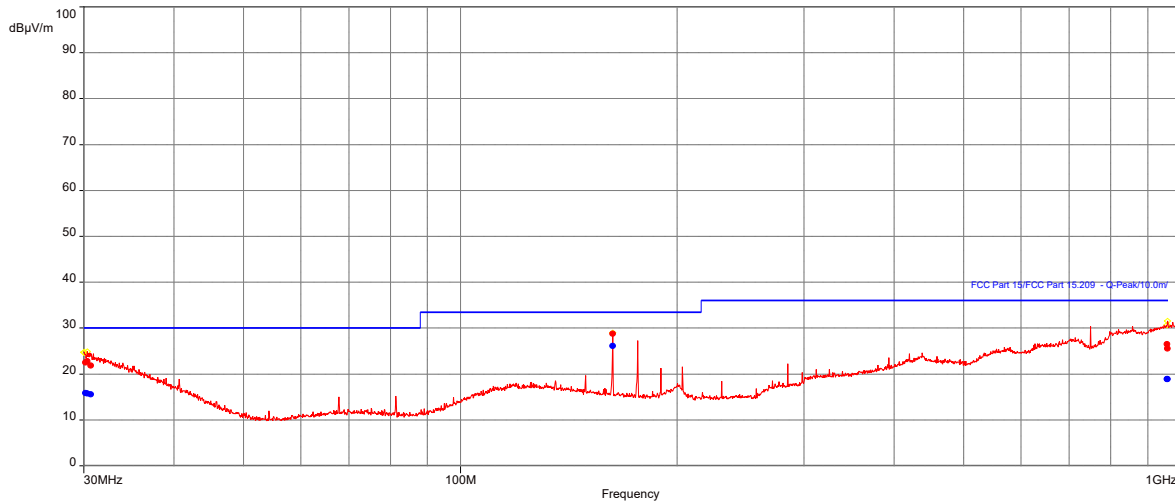
Notes: Due to the high noise floor of test equipment, the reading at 0.1675 MHz appears to be higher than the fundamental signal at 13.56023 MHz

13.56 MHz RFID (NTM-Touch Screen), 30-1000 MHz

Test Information:

Date and Time	6/24/2024 5:13:34 PM
Client and Project Number	Assa Abloy
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	41%
Atmospheric Pressure	990mbars
Comments	Scan #1 RFID - NTM Touch Screen, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (6)

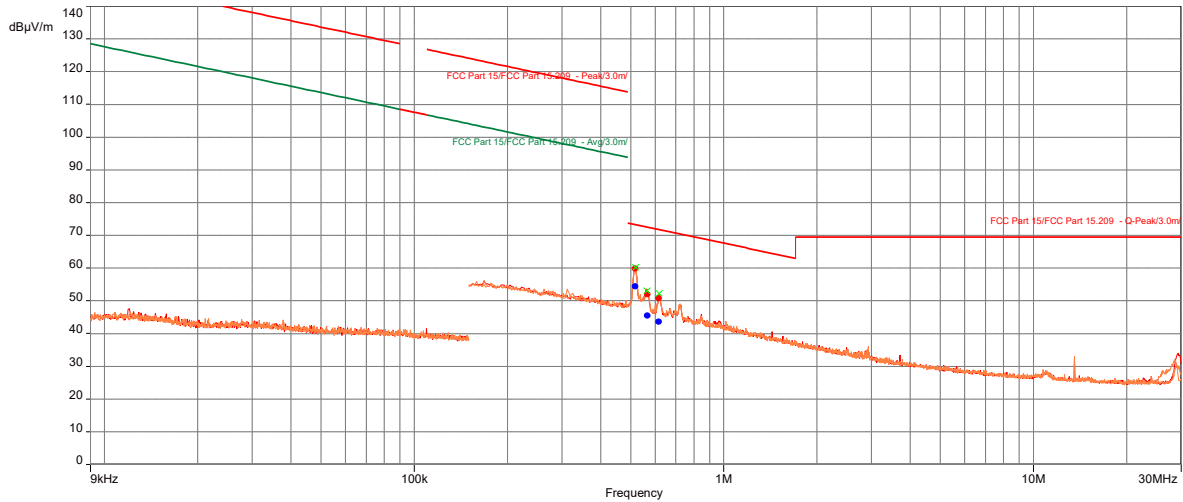
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.1369	15.85	30.00	-14.15	261.70	4.00	Horizontal	120k	1	-12.60
30.3224	15.82	30.00	-14.18	250.30	3.30	Horizontal	120k	1	-12.71
30.6606	15.59	30.00	-14.41	175.10	2.01	Horizontal	120k	1	-12.91
162.723	26.12	33.50	-7.38	175.10	1.32	Vertical	120k	1	-20.58
957.5856	18.93	36.00	-17.07	218.40	4.00	Horizontal	120k	1	-4.75
958.3893	18.90	36.00	-17.10	33.70	3.21	Vertical	120k	1	-4.75

BLE (NTM-Touch Screen) Tx Worst-case, RE 9 kHz-30 MHz

Test Information:

Date and Time	5/2/2024 10:28:02 PM
Client and Project Number	Assa Abloy
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 48_BLE - NTM- Touch Screen, Tx (Worst-case channel)_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)

Graph:



Results:

Peak (PASS) (3)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.56546	51.99	72.54	-20.55	88.00	Vertical	9k	1	13.21
0.61486	50.79	71.82	-21.03	174.80	Vertical	9k	1	13.16
0.51631	59.93	73.34	-13.41	6.80	Vertical	9k	1	13.25

QuasiPeak (PASS) (3)

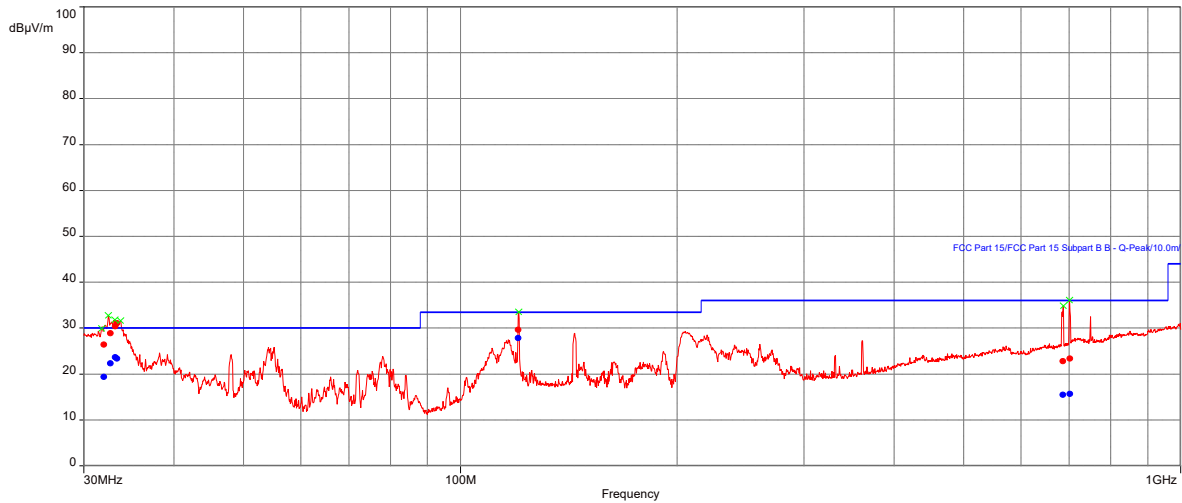
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.56546	45.52	72.54	-27.02	88.00	Vertical	9k	1	13.21
0.61486	43.71	71.82	-28.11	174.80	Vertical	9k	1	13.16
0.51631	54.38	73.34	-18.96	6.80	Vertical	9k	1	13.25

BLE (NTM-Touch Screen) Tx Low Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 12:00:31 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 5_BLE - NTM Touchscreen, Tx Low Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (7)

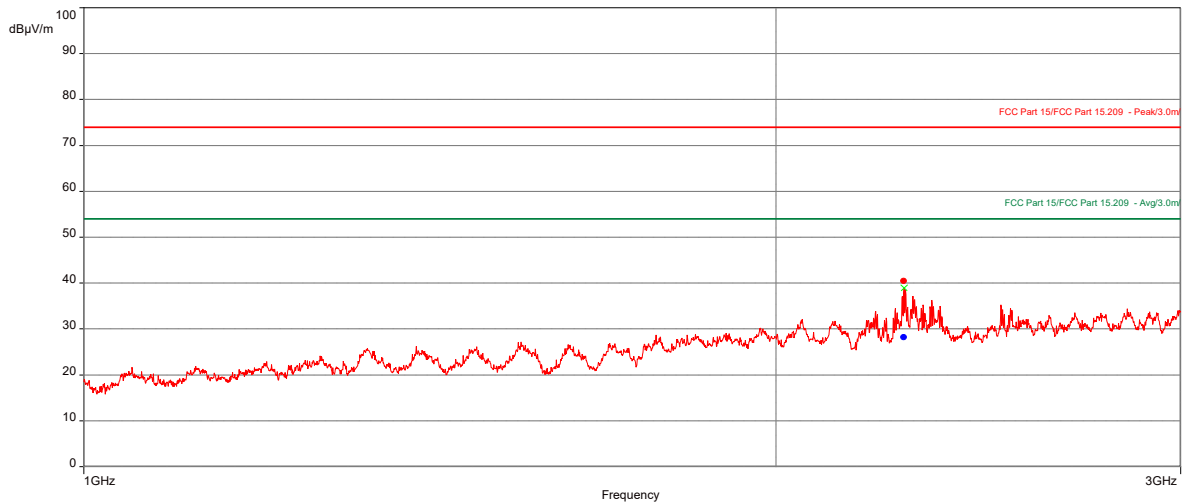
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
32.0109	19.42	30.00	-10.58	33.80	4.00	Vertical	120k	1	-13.89
32.6605	22.36	30.00	-7.64	93.80	4.00	Vertical	120k	1	-14.26
33.1948	23.67	30.00	-6.33	262.00	4.00	Vertical	120k	1	-14.60
33.3983	23.39	30.00	-6.61	277.70	1.46	Vertical	120k	1	-14.73
120.3646	27.83	33.50	-5.67	169.50	4.00	Vertical	120k	1	-18.67
686.7352	15.52	36.00	-20.48	0.00	4.00	Vertical	120k	1	-9.90
701.573	15.69	36.00	-20.31	245.80	1.48	Vertical	120k	1	-9.51

BLE (NTM-Touch Screen) Tx Low Channel, RE 1-3 GHz

Test Information:

Date and Time	5/2/2024 9:48:09 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 21 BLE (NTM-Touchscreen), Tx Low Channel, RE 1-3 GHz

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2273.788	40.52	74	-33.48	0.00	1.44	Vertical	1M	-18.07

AVG (PASS) (1)

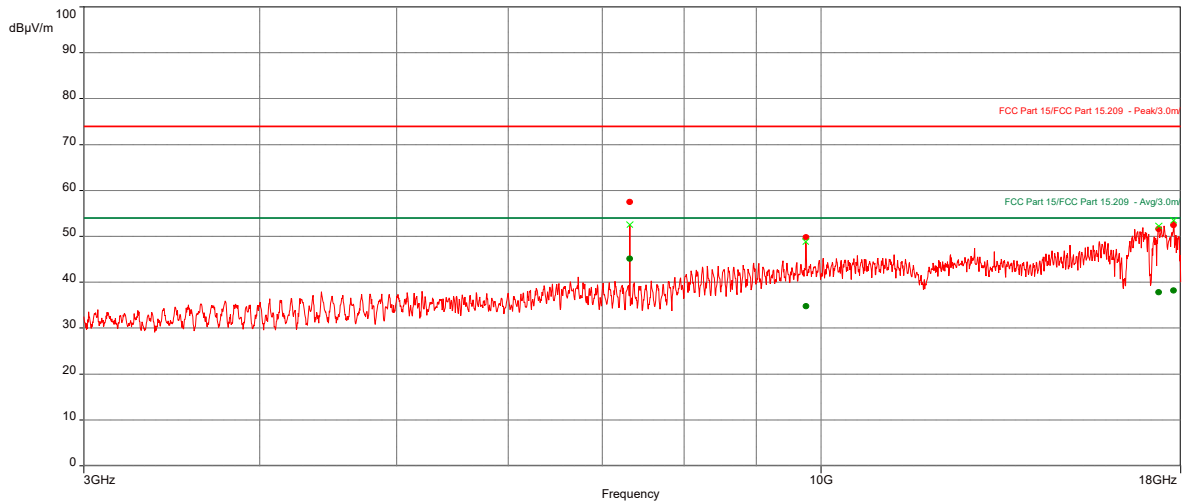
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2273.788	28.25	54.00	-25.75	0.00	1.44	Vertical	1M	-18.07

BLE – (NTM-Touch Screen), Tx Low Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 10:46:25 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 25_BLE (NTM-Touchscreen), Tx Mid Channel, RE 3-18 GHz

Graph:



Results:

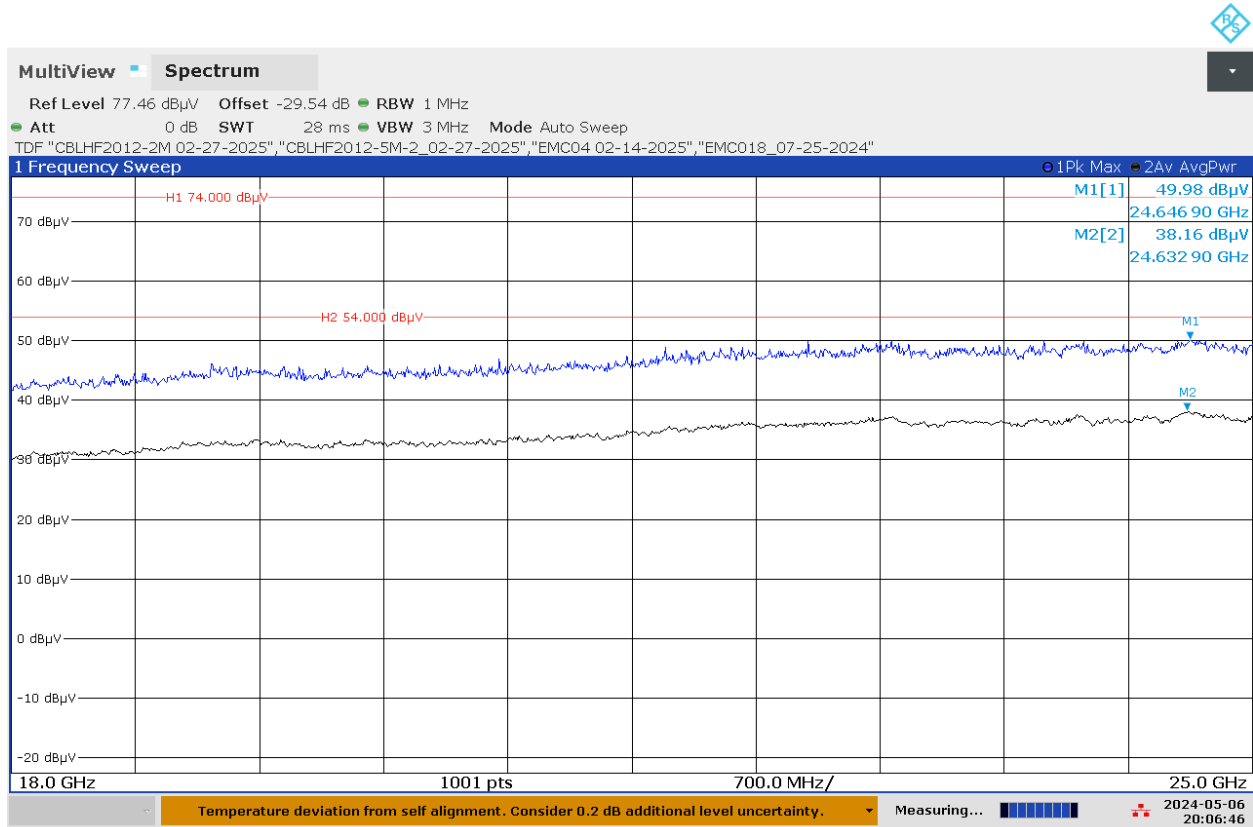
Peak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7320.887	57.49	74.00	-16.51	0.00	4.00	Vertical	1M	1	-10.18
9760.022	49.87	74.00	-24.13	0.00	1.00	Horizontal	1M	1	-7.69
17364.033	51.58	74.00	-22.42	265.40	4.00	Vertical	1M	1	1.96
17799.839	52.45	74.00	-21.55	0.00	1.00	Vertical	1M	1	2.32

AVG (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7320.887	45.19	54.00	-8.81	0.00	4.00	Vertical	1M	1	-10.18
9760.022	34.80	54.00	-19.20	0.00	1.00	Horizontal	1M	1	-7.69
17364.033	37.81	54.00	-16.19	265.40	4.00	Vertical	1M	1	1.96
17799.839	38.24	54.00	-15.76	0.00	1.00	Vertical	1M	1	2.32

BLE – (NTM–Touch Screen), Tx Low Channel, RE 18-25 GHz



08:06:47 PM 05/06/2024

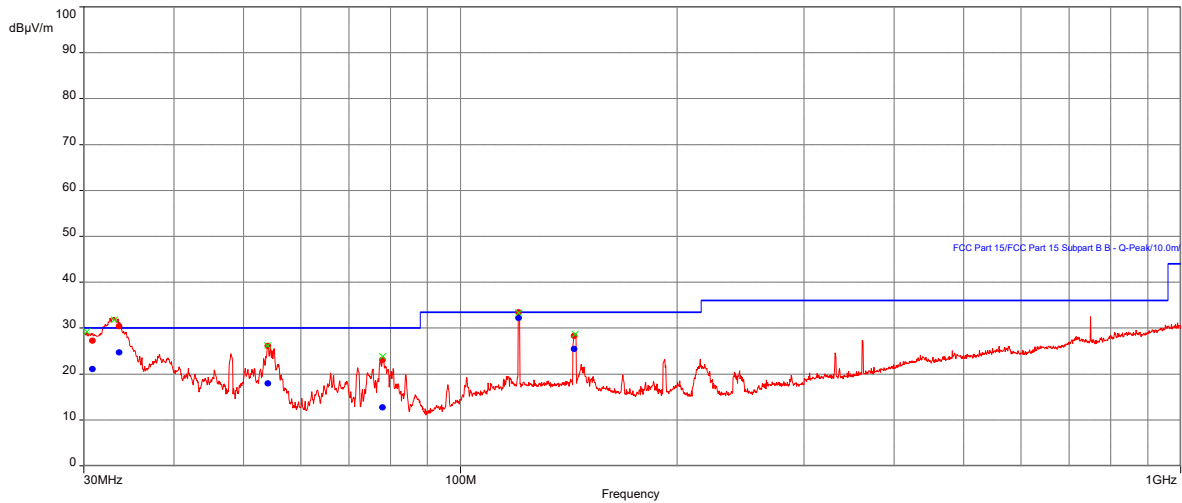
Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

BLE (NTM-Touch Screen) Tx Mid Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 12:34:56 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 6_BLE - NTM Touchscreen, Tx Mid Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (6)

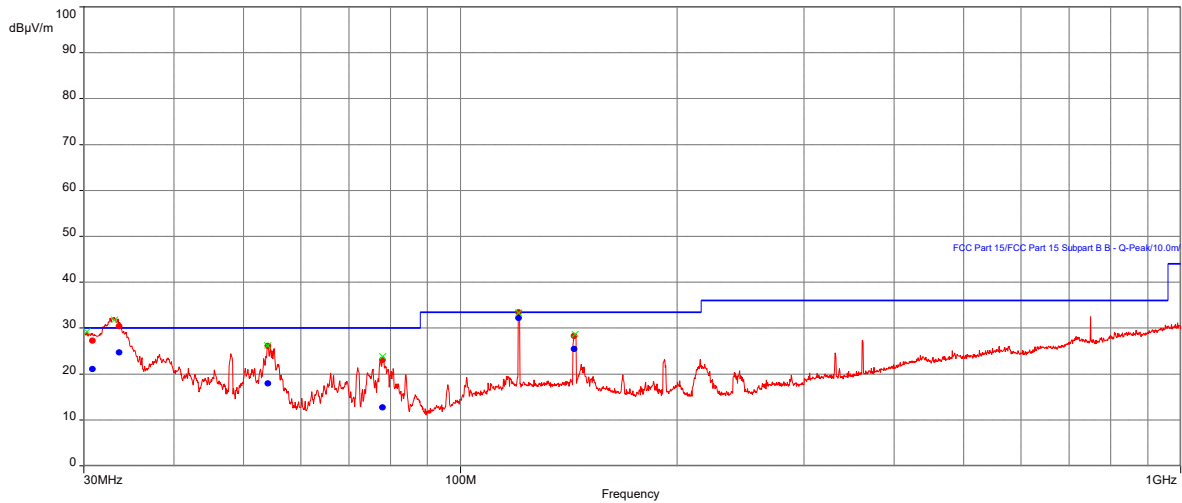
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.8267	21.12	30.00	-8.88	164.30	2.23	Vertical	120k	1	-13.09
33.5898	24.72	30.00	-5.28	321.20	2.77	Vertical	120k	1	-14.86
54.0823	17.93	30.00	-12.07	77.50	1.46	Vertical	120k	1	-26.17
78.0419	12.71	30.00	-17.29	50.00	4.00	Vertical	120k	1	-25.29
120.4697	32.22	33.50	-1.28	218.80	1.00	Vertical	120k	1	-18.67
144.005	25.50	33.50	-8.00	44.90	2.45	Vertical	120k	1	-19.29

BLE (NTM-Touch Screen) Tx Mid Channel, RE 1-3 GHz

Test Information:

Date and Time	5/1/2024 12:34:56 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 6_BLE - NTM Touchscreen, Tx Mid Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (6)

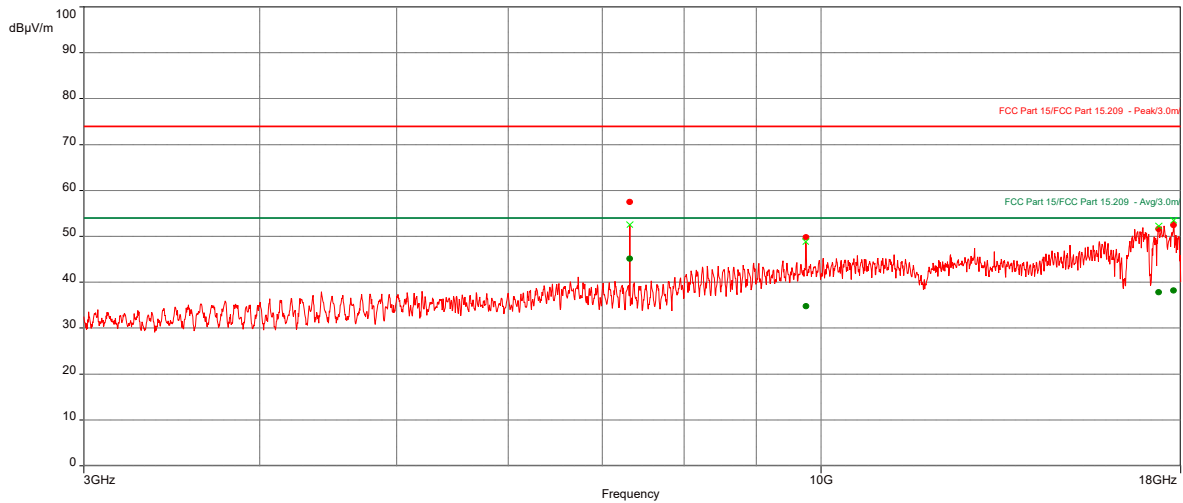
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.8267	21.12	30.00	-8.88	164.30	2.23	Vertical	120k	1	-13.09
33.5898	24.72	30.00	-5.28	321.20	2.77	Vertical	120k	1	-14.86
54.0823	17.93	30.00	-12.07	77.50	1.46	Vertical	120k	1	-26.17
78.0419	12.71	30.00	-17.29	50.00	4.00	Vertical	120k	1	-25.29
120.4697	32.22	33.50	-1.28	218.80	1.00	Vertical	120k	1	-18.67
144.005	25.50	33.50	-8.00	44.90	2.45	Vertical	120k	1	-19.29

BLE – (NTM–Touch Screen), Tx Mid Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 10:46:25 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 25 BLE (NTM-Touchscreen), Tx Mid Channel, RE 3-18 GHz

Graph:



Results:

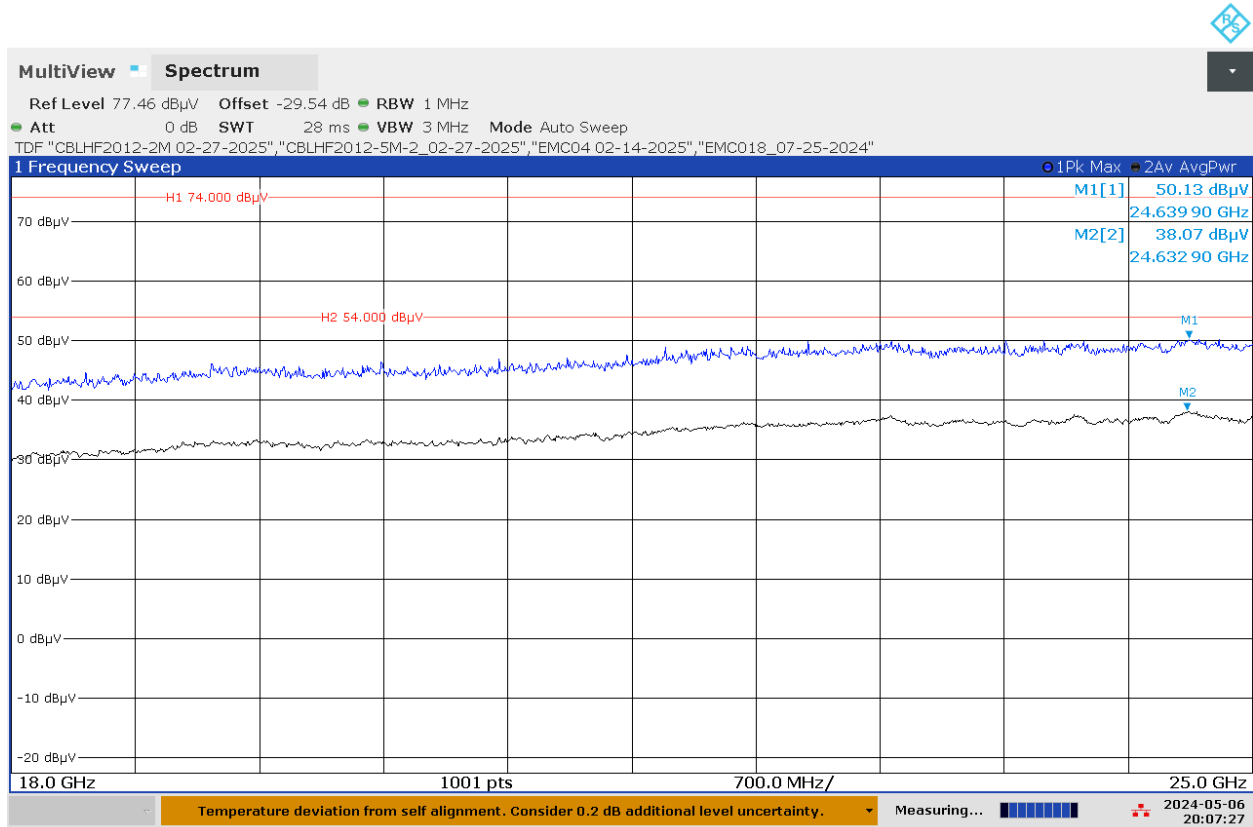
Peak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7320.887	57.49	74.00	-16.51	0.00	4.00	Vertical	1M	1	-10.18
9760.022	49.87	74.00	-24.13	0.00	1.00	Horizontal	1M	1	-7.69
17364.033	51.58	74.00	-22.42	265.40	4.00	Vertical	1M	1	1.96
17799.839	52.45	74.00	-21.55	0.00	1.00	Vertical	1M	1	2.32

AVG (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7320.887	45.19	54.00	-8.81	0.00	4.00	Vertical	1M	1	-10.18
9760.022	34.80	54.00	-19.20	0.00	1.00	Horizontal	1M	1	-7.69
17364.033	37.81	54.00	-16.19	265.40	4.00	Vertical	1M	1	1.96
17799.839	38.24	54.00	-15.76	0.00	1.00	Vertical	1M	1	2.32

BLE – (NTM–Touch Screen), Tx Mid Channel, RE 18-25 GHz



08:07:27 PM 05/06/2024

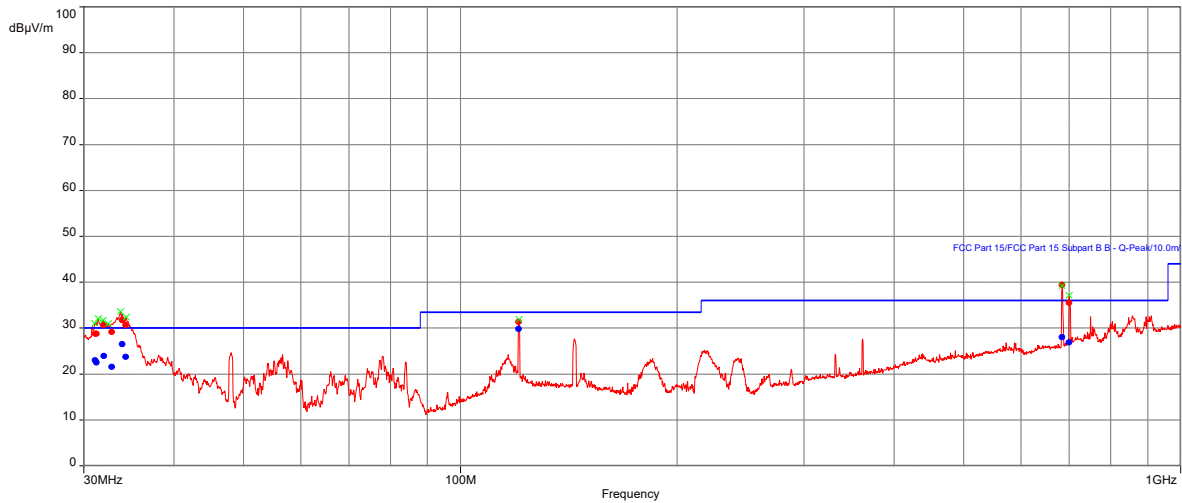
Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

BLE (NTM-Touch Screen) Tx High Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 1:09:47 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 7_BLE - NTM Touchscreen, Tx High Ch, RE 30-1000 MHz

Graph:



Results:

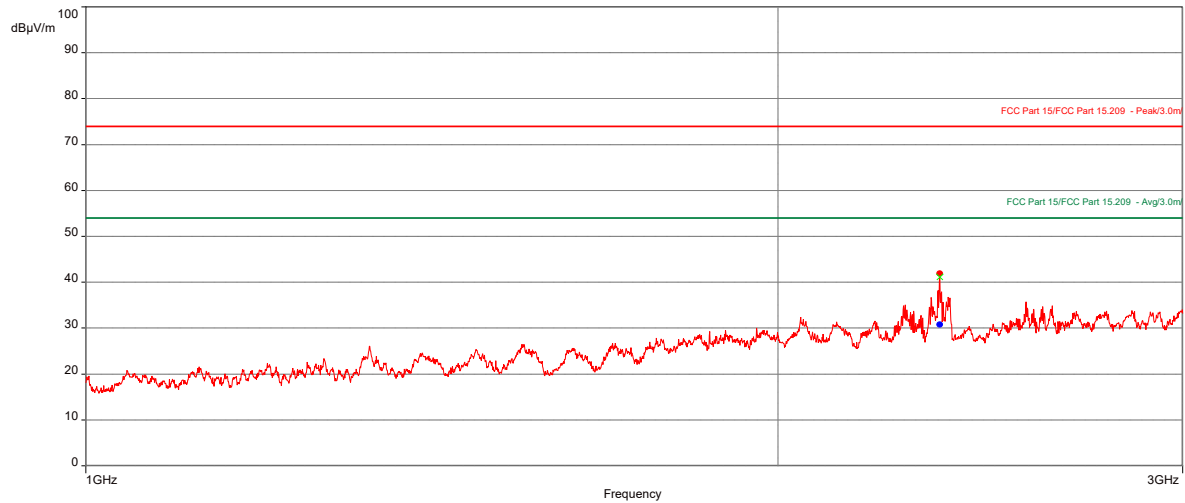
QuasiPeak (PASS) (9)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
31.1084	23.02	30.00	-6.98	12.00	2.38	Vertical	120k	1	-13.27
31.2469	22.50	30.00	-7.50	272.80	1.70	Vertical	120k	1	-13.36
32.0173	23.98	30.00	-6.02	120.80	1.32	Vertical	120k	1	-13.89
32.8101	21.59	30.00	-8.41	164.40	2.39	Vertical	120k	1	-14.35
33.934	26.55	30.00	-3.45	39.20	1.85	Vertical	120k	1	-15.10
34.3202	23.81	30.00	-6.19	88.20	2.90	Vertical	120k	1	-15.33
120.5147	29.83	33.50	-3.67	175.30	2.47	Vertical	120k	1	-18.67
684.6187	28.07	36.00	-7.93	278.60	4.00	Vertical	120k	1	-9.95
700.0211	26.93	36.00	-9.07	294.50	4.00	Vertical	120k	1	-9.52

BLE (NTM-Touch Screen) Tx High Channel, RE 1-3 GHz

Test Information:

Date and Time	5/2/2024 10:08:51 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 23 BLE (NTM-Touchscreen), Tx High Channel, RE 1-3 GHz

Graph:**Results:**

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
2351.887	41.94	74	-32.06	360.00	2.51	Vertical	1M	1	-17.88

AVG (PASS) (1)

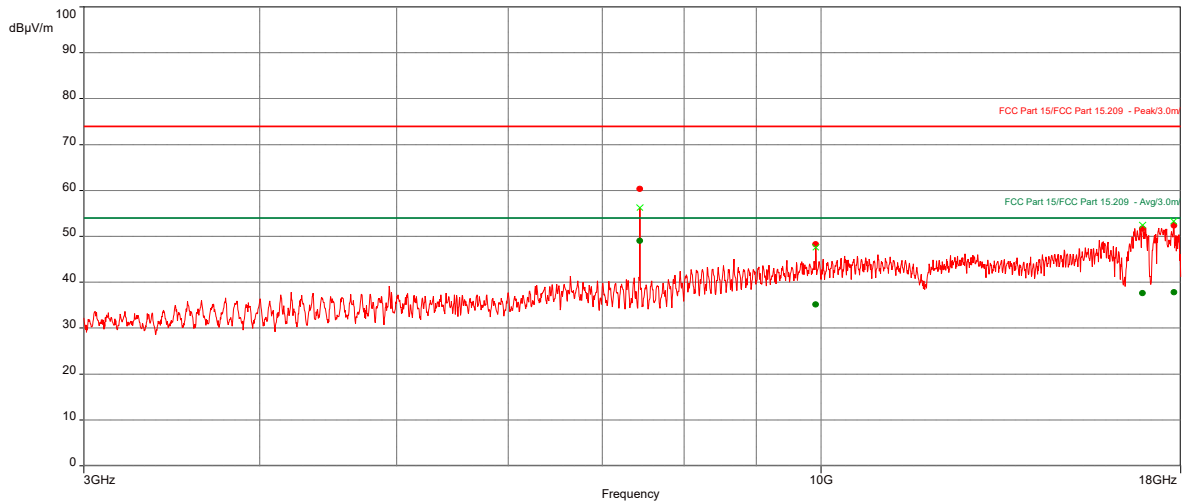
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
2351.887	30.80	54.00	-23.20	360.00	2.51	Vertical	1M	1	-17.88

BLE – (NTM–Touch Screen), Tx High Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 10:19:50 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 24 BLE (NTM-Touchscreen), Tx High Channel, RE 3-18 GHz

Graph:



Results:

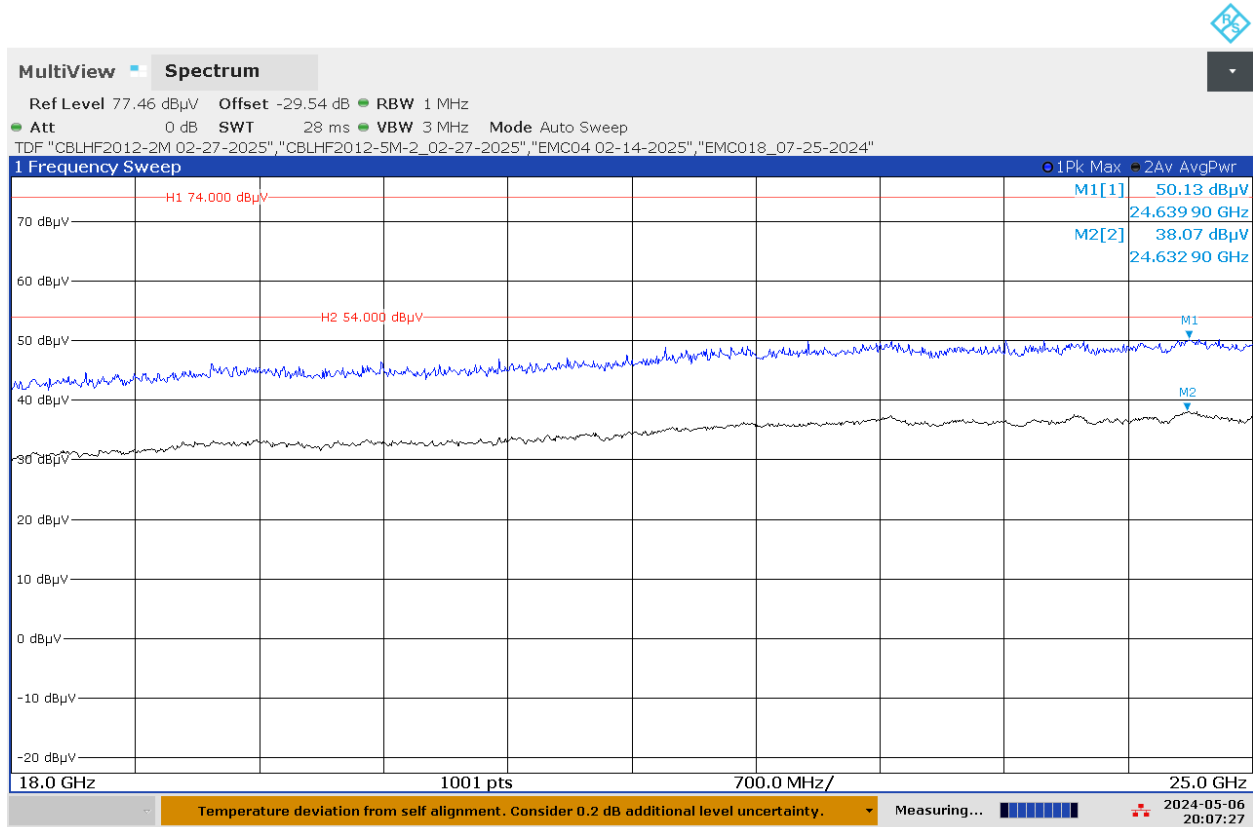
Peak (PASS) (4)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7439.288	60.37	74.00	-13.63	0.00	4.00	Vertical	1M	1	-10.16
9918.953	48.29	74.00	-25.71	0.00	1.00	Horizontal	1M	1	-7.40
16921.087	51.68	74.00	-22.32	265.60	1.00	Vertical	1M	1	2.11
17803.421	52.34	74.00	-21.66	360.00	4.00	Horizontal	1M	1	2.32

AVG (PASS) (4)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7439.288	49.04	54.00	-4.96	0.00	4.00	Vertical	1M	1	-10.16
9918.953	35.14	54.00	-18.86	0.00	1.00	Horizontal	1M	1	-7.40
16921.087	37.61	54.00	-16.39	265.60	1.00	Vertical	1M	1	2.11
17803.421	37.83	54.00	-16.17	360.00	4.00	Horizontal	1M	1	2.32

BLE – (NTM–Touch Screen), Tx High Channel, RE 18-25 GHz



08:07:27 PM 05/06/2024

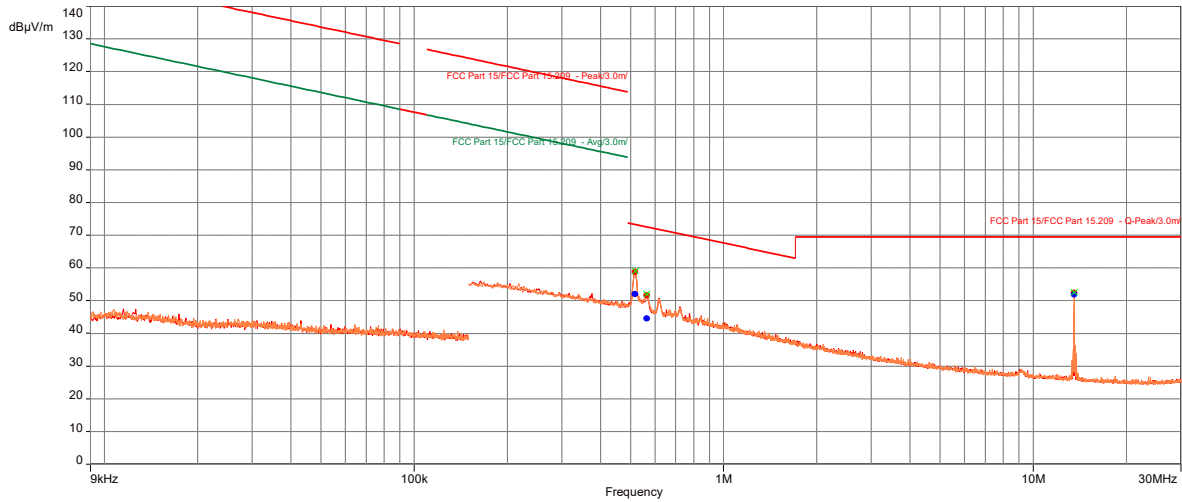
Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

13.56 MHz RFID (NTM–Push Button), 9 kHz-30 MHz

Test Information:

Date and Time	5/6/2024 6:23:44 PM
Client and Project Number	Assa Abloy
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	41 %
Atmospheric Pressure	1001 mbars
Comments	Scan 54_RFID - NTM- Push Button, Tx (Worst-case channel)_RE 9kHz-30MHz (FCC 15.209)

Graph:



Results:

Peak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.51743	58.84	73.34	-14.50	39.10	Vertical	9k	1	13.25
0.56433	51.62	72.58	-20.96	288.80	Vertical	9k	1	13.21
13.56023	52.41	69.54	-17.13	169.20	Vertical	9k	1	12.01

QuasiPeak (PASS) (3)

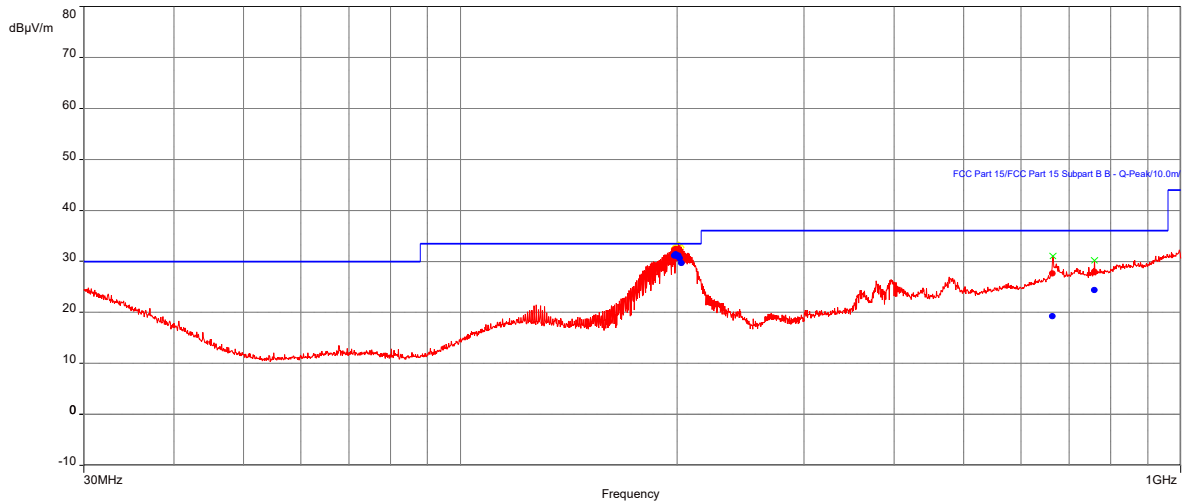
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.51743	52.10	73.34	-21.24	39.10	Vertical	9k	1	13.25
0.56433	44.64	72.58	-27.94	288.80	Vertical	9k	1	13.21
13.56023	51.98	69.54	-17.56	169.20	Vertical	9k	1	12.01

13.56 MHz RFID (NTM-Push Button), 30-1000 MHz

Test Information:

Date and Time	10/22/2025 8:49:24 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	23 deg C
Humidity	45 %
Atmospheric Pressure	996 mbars
Comments	Scan 1: NTM-Push Button (13.56 MHz RFID), Serial # RX0VN703732, Changed Test Code Firmware, RE 30-1000 MHz

Graph:



Results:

Peak – Red Dots (8)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
198.273	32.29	No limit	N/A	194.50	1.00	Vertical	120k	1	-19.57
199.1475	32.48	No limit	N/A	174.00	1.00	Vertical	120k	1	-19.48
199.9904	32.37	No limit	N/A	172.70	1.00	Vertical	120k	1	-19.39
200.874	32.34	No limit	N/A	166.70	1.03	Vertical	120k	1	-19.39
201.7111	31.97	No limit	N/A	167.10	1.00	Vertical	120k	1	-19.60
202.5795	31.11	No limit	N/A	177.70	1.00	Vertical	120k	1	-19.85
664.0911	27.69	No limit	N/A	334.00	4.00	Vertical	120k	1	-10.06
759.3645	27.97	No limit	N/A	210.20	2.54	Horizontal	120k	1	-8.50

QuasiPeak – Blue Dots (PASS) (8)

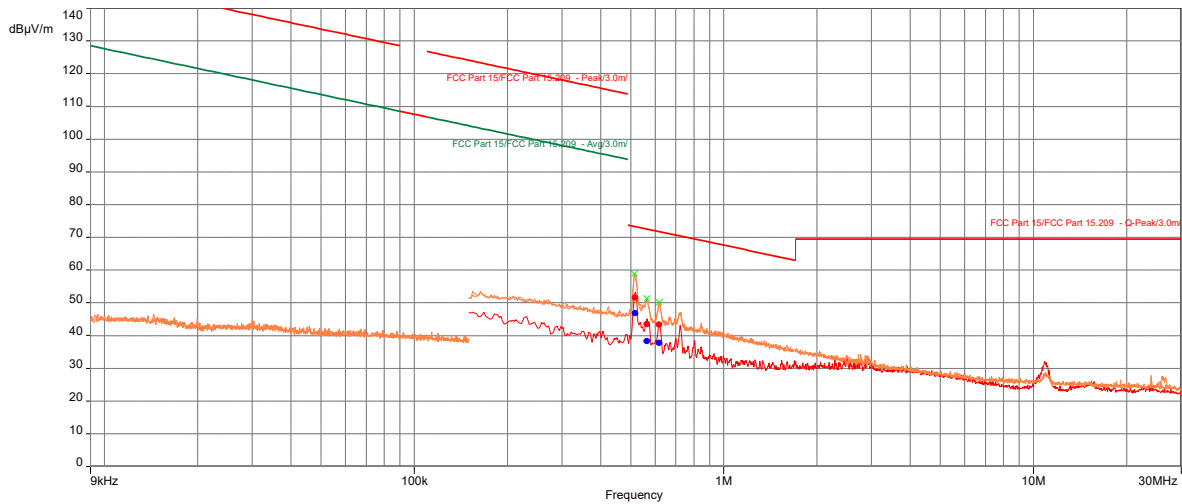
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
198.273	31.18	33.50	-2.32	194.50	1.00	Vertical	120k	1	-19.57
199.1475	31.38	33.50	-2.12	174.00	1.00	Vertical	120k	1	-19.48
199.9904	31.10	33.50	-2.40	172.70	1.00	Vertical	120k	1	-19.39
200.874	31.14	33.50	-2.36	166.70	1.03	Vertical	120k	1	-19.39
201.7111	30.62	33.50	-2.88	167.10	1.00	Vertical	120k	1	-19.60
202.5795	29.73	33.50	-3.77	177.70	1.00	Vertical	120k	1	-19.85
664.0911	19.23	36.00	-16.77	334.00	4.00	Vertical	120k	1	-10.06
759.3645	24.40	36.00	-11.60	210.20	2.54	Horizontal	120k	1	-8.50

BLE (NTM-Push Button) Tx Worst-case Channel, RE 9 kHz-30 MHz

Test Information:

Date and Time	5/2/2024 9:52:15 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 47_BLE - NTM- Push Button, Tx (Worst-case channel)_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)

Graph:



Results:

Peak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.56411	43.51	72.58	-29.07	173.90	Vertical	9k	1	11.09
0.51764	51.70	73.34	-21.64	157.70	Vertical	9k	1	11.04
0.61844	43.40	71.78	-28.38	71.60	Vertical	9k	1	11.13

QuasiPeak (PASS) (3)

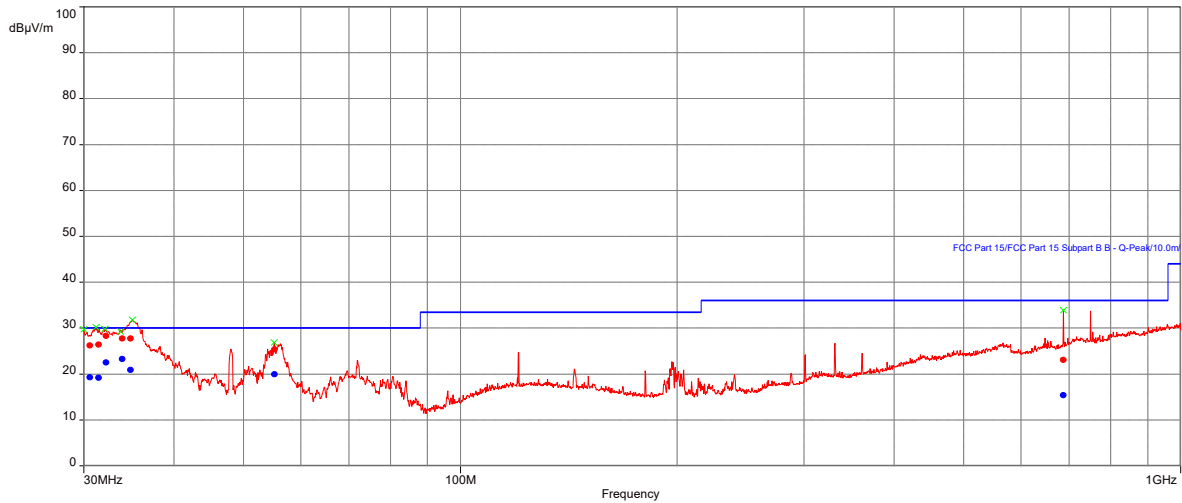
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time(s)	Correction (dB)
0.56411	38.29	72.58	-34.29	173.90	Vertical	9k	1	11.09
0.51764	46.83	73.34	-26.51	157.70	Vertical	9k	1	11.04
0.61844	37.78	71.78	-34.01	71.60	Vertical	9k	1	11.13

BLE (NTM – Push Button) Tx Low Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 9:16:00 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 1_BLE - NTM Push Button, Low Ch, RE 30-1000 MHz

Graph:



Results:

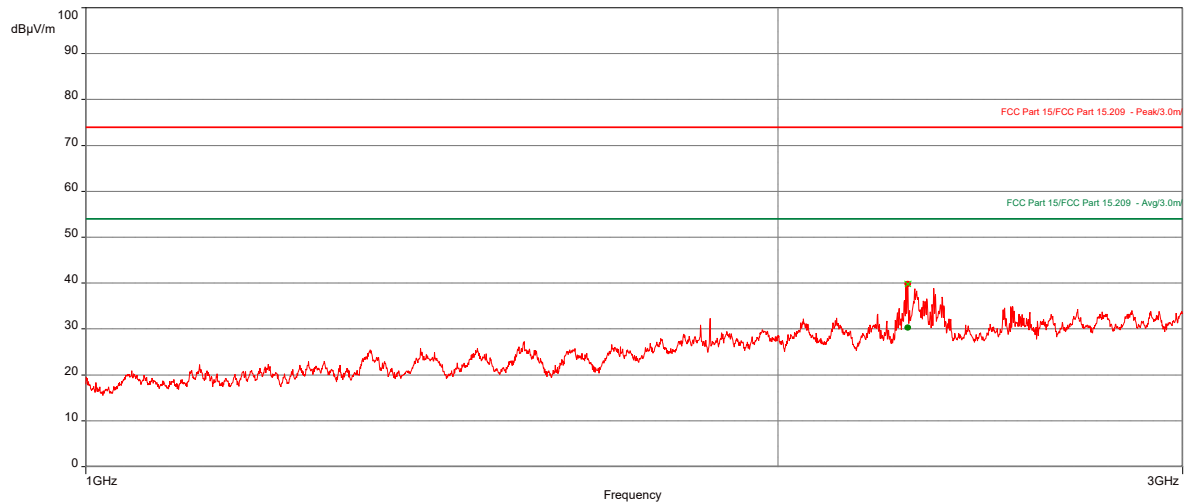
QuasiPeak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.5887	19.28	30.00	-10.72	1.30	1.54	Vertical	120k	1	-12.95
31.4723	19.25	30.00	-10.75	316.10	1.47	Vertical	120k	1	-13.51
32.2197	22.56	30.00	-7.44	169.80	1.00	Vertical	120k	1	-14.01
33.9295	23.33	30.00	-6.67	23.10	1.48	Vertical	120k	1	-15.10
34.8575	20.89	30.00	-9.11	299.70	3.58	Vertical	120k	1	-15.65
55.1729	19.97	30.00	-10.03	137.20	1.48	Vertical	120k	1	-26.16
687.1143	15.39	36.00	-20.61	305.70	1.62	Vertical	120k	1	-9.90

BLE (NTM – Push Button) Tx Low Channel, RE 1-3 GHz

Test Information:

Date and Time	5/2/2024 1:21:30 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 32 BLE - NTM-Push Button, Tx Low Channel, RE 1-3 GHz

Graph:**Results:**

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2278.287	39.88	74.00	-34.12	35.00	1.00	Vertical	1M	-18.04

AVG (PASS) (1)

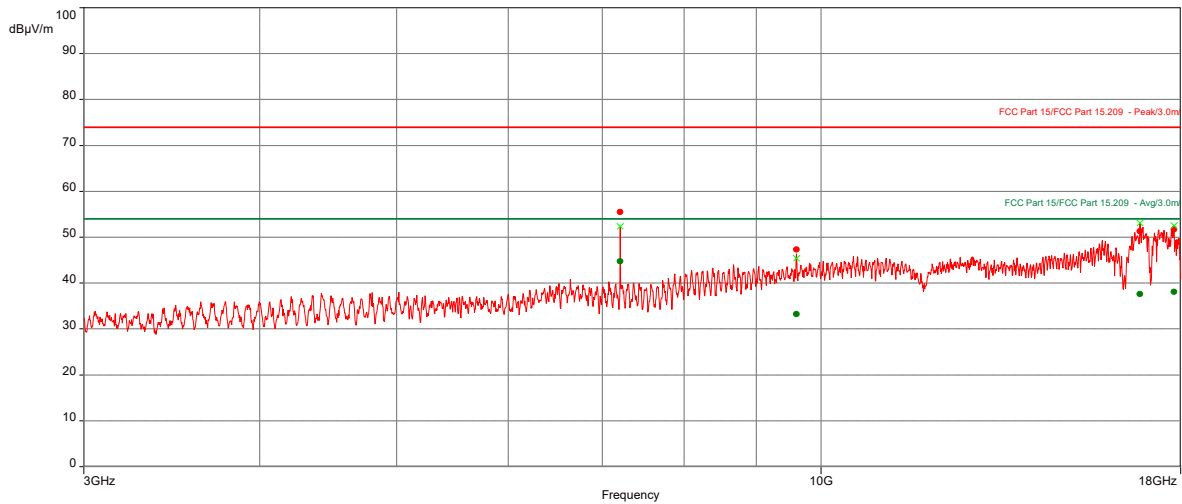
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2278.287	30.36	54.00	-23.64	35.00	1.00	Vertical	1M	-18.04

BLE – (NTM – Push Button), Tx Low Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 11:50:13 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 27 BLE - NTM-Push Button, Tx Low Channel, RE 3-18 GHz

Graph:



Results:

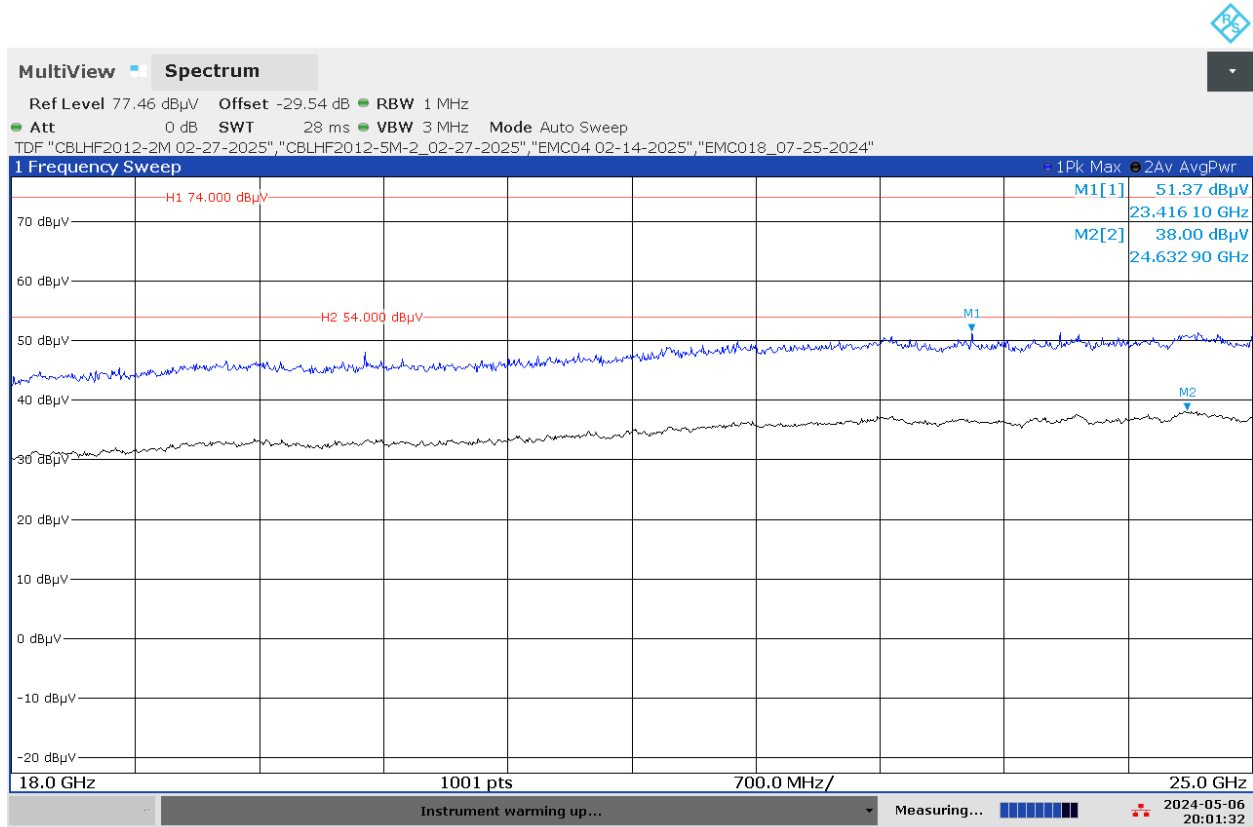
Peak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7205.428	55.56	74.00	-18.44	0.00	4.00	Vertical	1M	1	-10.25
9609.409	47.31	74.00	-26.69	360.00	1.00	Horizontal	1M	1	-8.03
16841.886	51.33	74.00	-22.67	265.70	1.00	Horizontal	1M	1	2.14
17802.862	51.73	74.00	-22.27	360.00	4.00	Vertical	1M	1	2.32

AVG (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
7205.428	44.82	54.00	-9.18	0.00	4.00	Vertical	1M	1	-10.25
9609.409	33.24	54.00	-20.76	360.00	1.00	Horizontal	1M	1	-8.03
16841.886	37.63	54.00	-16.37	265.70	1.00	Horizontal	1M	1	2.14
17802.862	38.16	54.00	-15.84	360.00	4.00	Vertical	1M	1	2.32

BLE – (NTM – Push Button), Tx Low Channel, RE 18-25 GHz



08:01:33 PM 05/06/2024

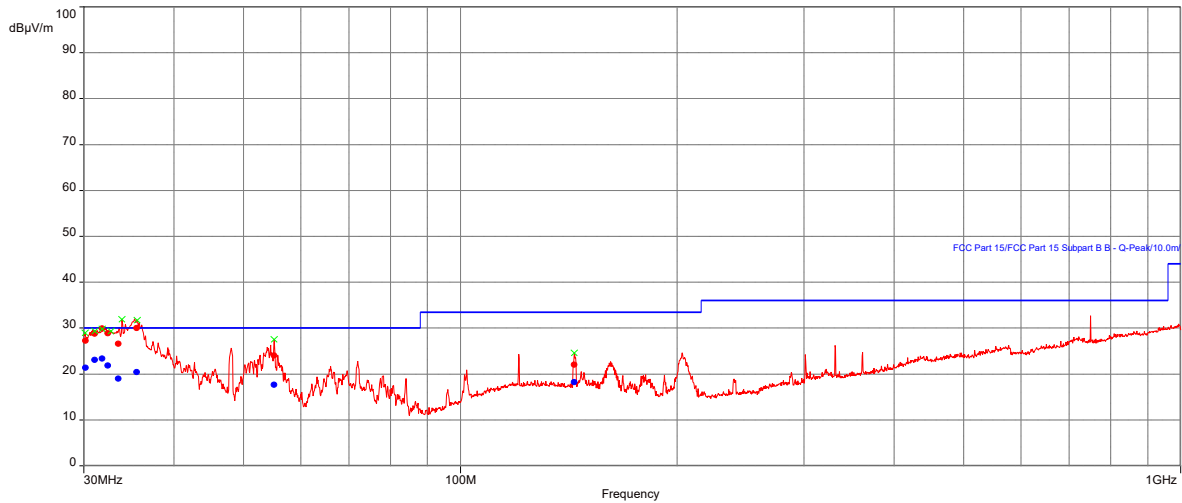
Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

BLE (NTM-Push Button) Tx Mid Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 9:55:35 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 2_BLE - NTM Push Button, Tx Mid Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (8)

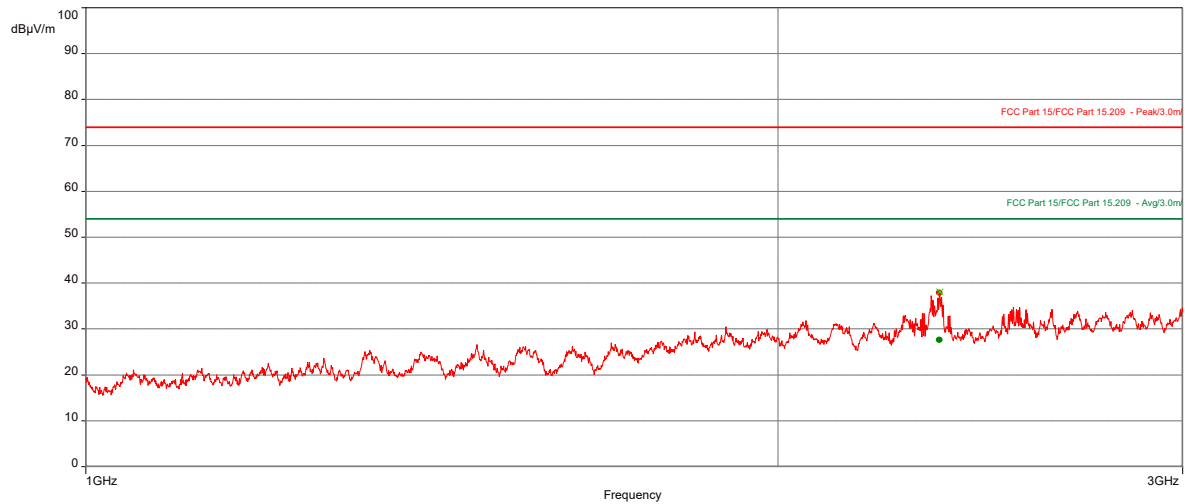
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.1489	21.36	30.00	-8.64	229.30	3.21	Vertical	120k	1	-12.70
31.0605	23.15	30.00	-6.85	235.20	2.15	Vertical	120k	1	-13.24
31.8269	23.39	30.00	-6.61	354.40	1.56	Vertical	120k	1	-13.76
32.4067	21.86	30.00	-8.14	235.10	1.40	Vertical	120k	1	-14.12
33.4991	19.03	30.00	-10.97	50.20	1.32	Vertical	120k	1	-14.80
35.5456	20.44	30.00	-9.56	332.70	1.32	Vertical	120k	1	-16.15
55.1026	17.72	30.00	-12.28	354.70	4.00	Vertical	120k	1	-26.16
144.009	18.23	33.50	-15.27	77.30	4.00	Vertical	120k	1	-19.29

BLE (NTM – Push Button) Tx Mid Channel, RE 1-3 GHz

Test Information:

Date and Time	5/2/2024 1:11:43 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 31 BLE - NTM-Push Button, Tx Mid Channel, RE 1-3 GHz

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2351.776	37.94	74.00	-36.06	270.00	4.00	Horizontal	1M	-17.88

AVG (PASS) (1)

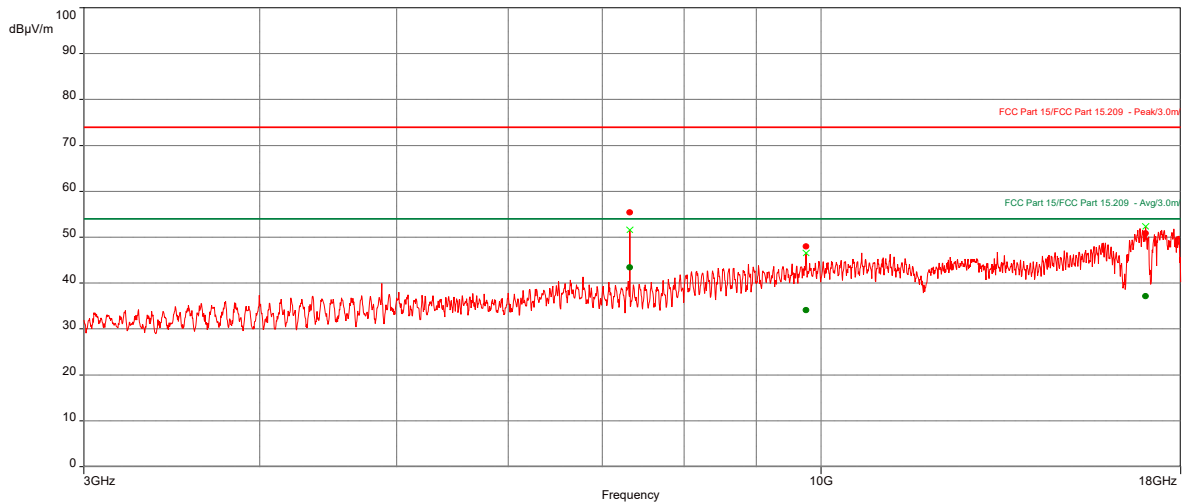
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2351.776	27.67	54.00	-26.33	270.00	4.00	Horizontal	1M	-17.88

BLE – (NTM – Push Button), Tx Mid Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 12:16:33 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 28 BLE - NTM-Push Button, Tx Mid Channel, RE 3-18 GHz

Graph:



Results:

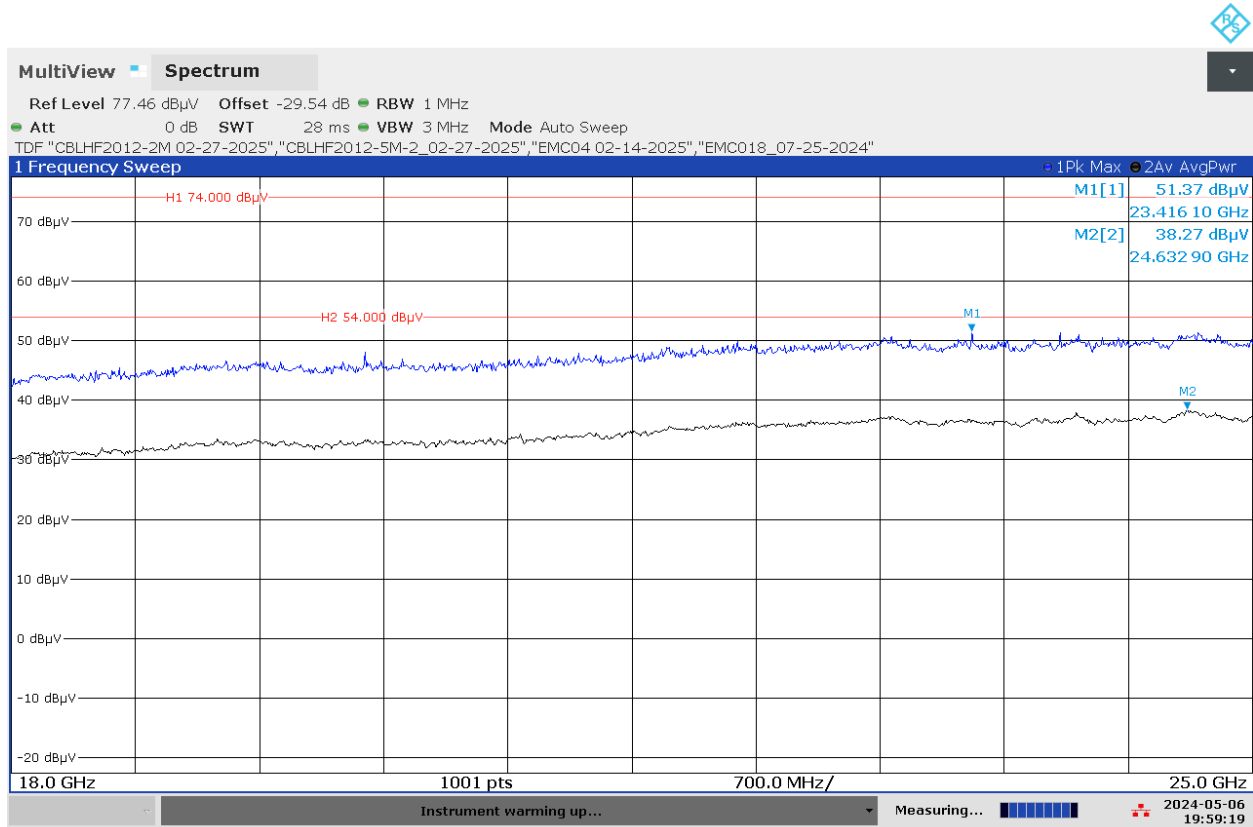
Peak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7320.862	55.41	74.00	-18.59	360.00	4.00	Vertical	1M	-10.18
9761.387	48.03	74.00	-25.97	0.00	1.00	Horizontal	1M	-7.69
16999.455	50.82	74.00	-23.18	360.00	4.00	Horizontal	1M	2.12

AVG (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7320.862	43.43	54.00	-10.57	360.00	4.00	Vertical	1M	-10.18
9761.387	34.13	54.00	-19.87	0.00	1.00	Horizontal	1M	-7.69
16999.455	37.14	54.00	-16.86	360.00	4.00	Horizontal	1M	2.12

BLE – (NTM – Push Button), Tx Mid Channel, RE 18-25 GHz



07:59:19 PM 05/06/2024

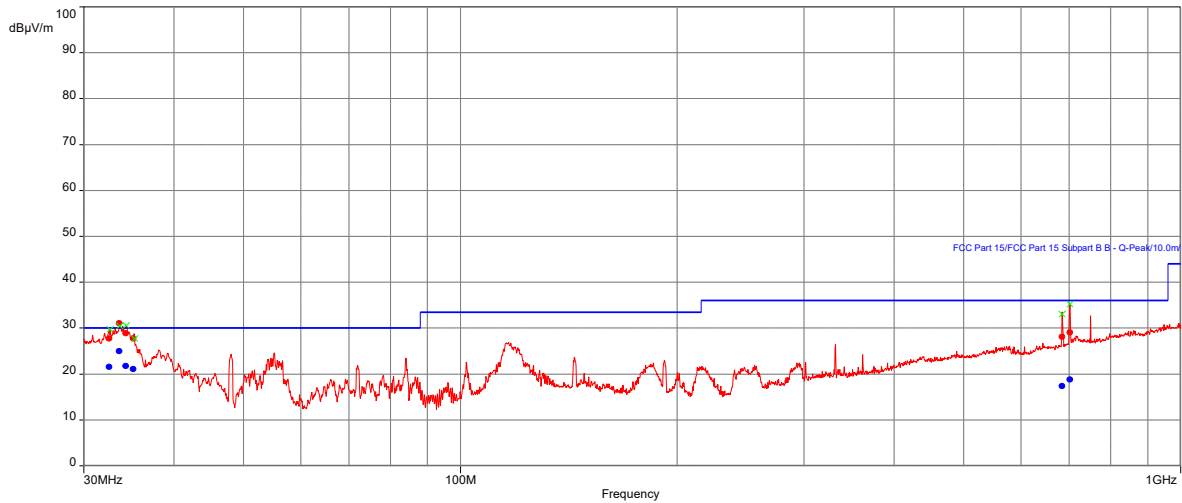
Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

BLE (NTM – Push Button) Tx High Channel, RE 30-1000 MHz

Test Information:

Date and Time	5/1/2024 10:37:16 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 3_BLE - NTM Push Button, Tx High Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (6)

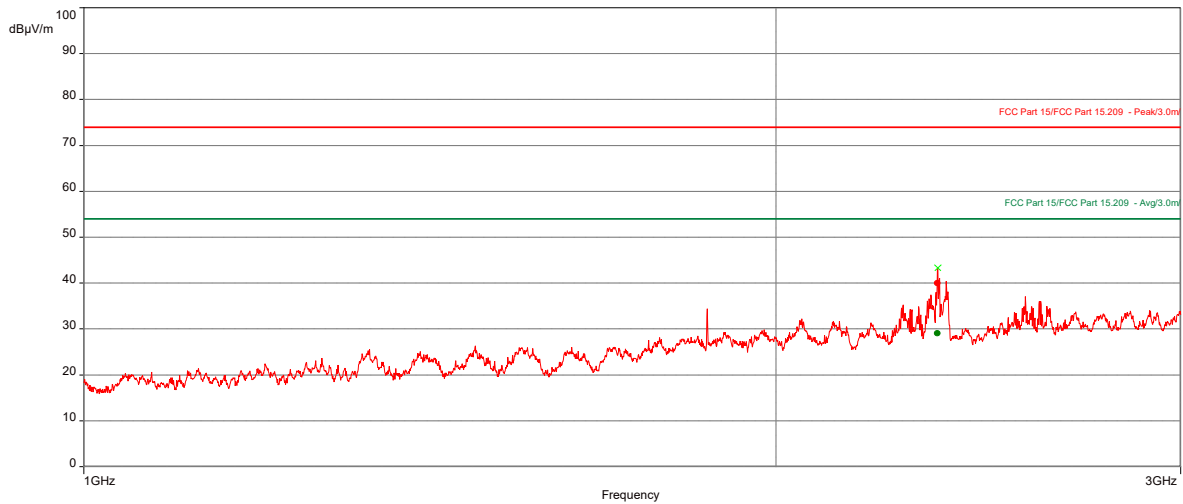
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
32.5263	21.58	30.00	-8.42	99.00	1.46	Vertical	120k	1	-14.18
33.6122	25.03	30.00	-4.97	354.70	1.40	Vertical	120k	1	-14.88
34.3261	21.79	30.00	-8.21	213.30	2.67	Vertical	120k	1	-15.34
35.1468	21.15	30.00	-8.85	50.20	1.46	Vertical	120k	1	-15.84
684.8342	17.37	36.00	-18.63	44.70	3.53	Vertical	120k	1	-9.93
701.7157	18.84	36.00	-17.16	257.00	2.82	Vertical	120k	1	-9.51

BLE (NTM – Push Button) Tx High Channel, RE 1-3 GHz

Test Information:

Date and Time	5/2/2024 1:02:06 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 30 BLE - NTM-Push Button, Tx High Channel, RE 1-3 GHz

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2351.85	40.01	74.00	-33.99	360.00	4.00	Vertical	1M	-17.88

AVG (PASS) (1)

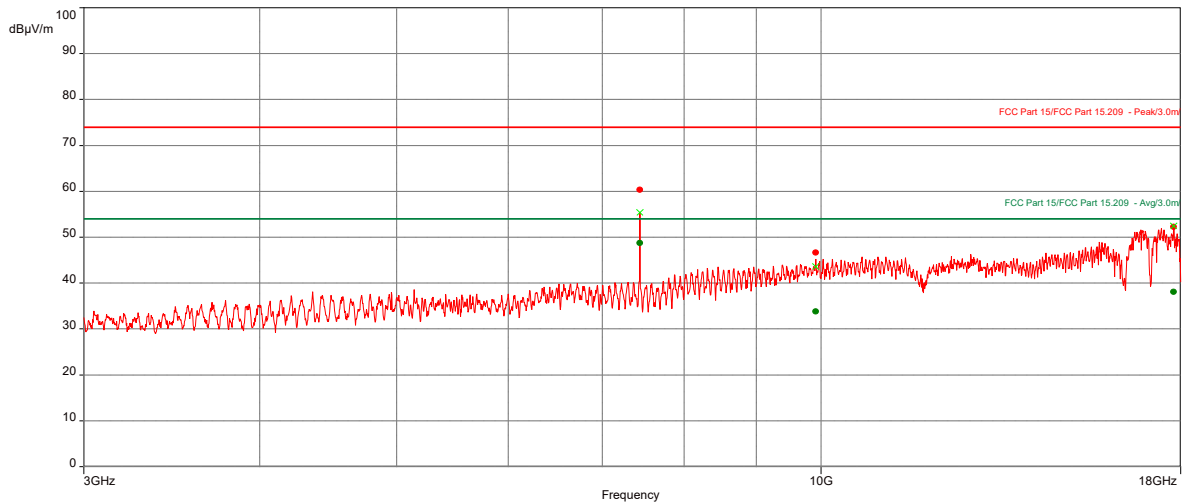
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2351.85	29.14	54.00	-24.86	360.00	4.00	Vertical	1M	-17.88

BLE – (NTM – Push Button), Tx High Channel, RE 3-18 GHz

Test Information:

Date and Time	5/2/2024 12:38:09 PM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 29 BLE - NTM-Push Button, Tx High Channel, RE 3-18 GHz

Graph:



Results:

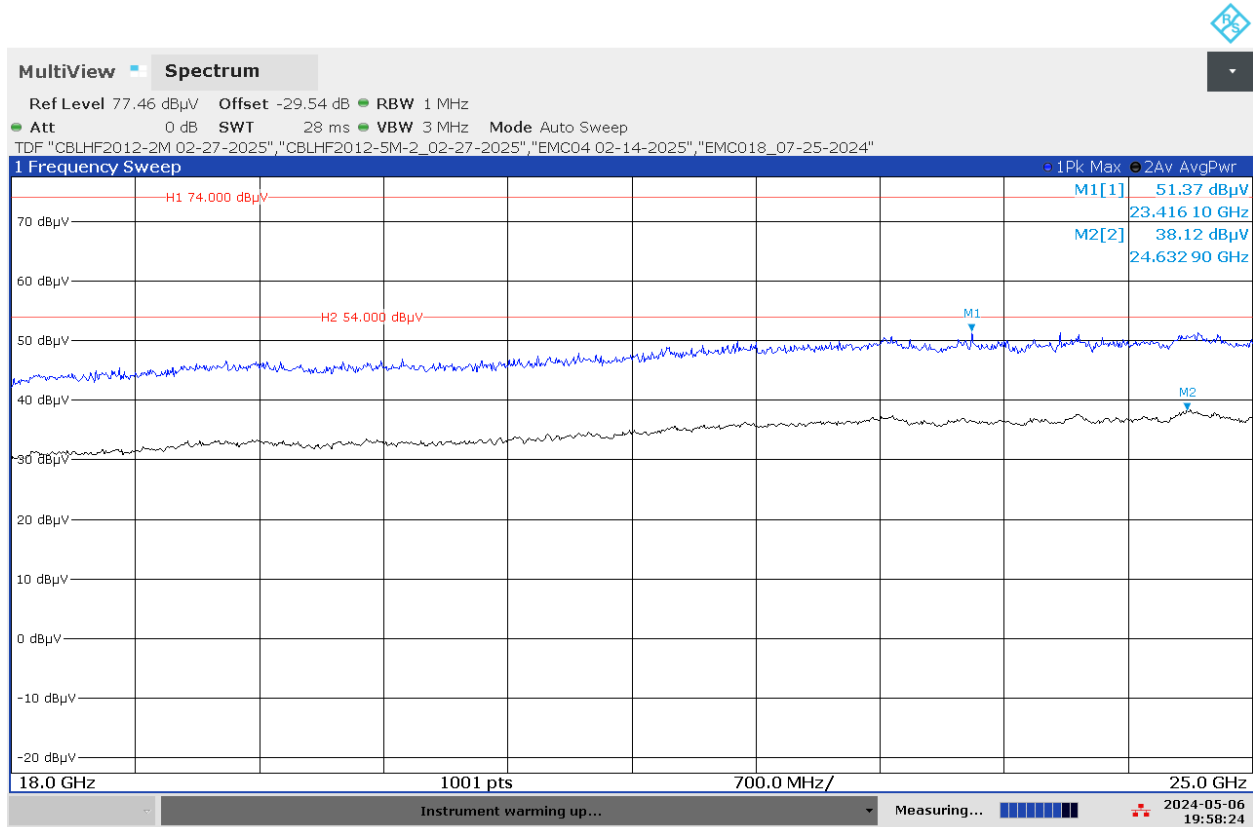
Peak (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7440.813	60.39	74.00	-13.61	0.00	4.00	Vertical	1M	-10.16
9919.14	46.65	74.00	-27.35	0.00	1.00	Horizontal	1M	-7.40
17801.663	52.25	74.00	-21.75	265.50	1.00	Horizontal	1M	2.32

AVG (PASS) (3)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7440.813	48.80	54.00	-5.20	0.00	4.00	Vertical	1M	-10.16
9919.14	33.88	54.00	-20.12	0.00	1.00	Horizontal	1M	-7.40
17801.663	38.11	54.00	-15.89	265.50	1.00	Horizontal	1M	2.32

BLE – (NTM – Push Button), Tx High Channel, RE 18-25 GHz



07:58:25 PM 05/06/2024

Notes: Testing was performed manually around the EUT at 10cm distance. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Product Standard: CFR47 FCC Part 15.247, CFR47 FCC Part 15 15.225 CFR47 FCC Part 15 15.209, CFR47 FCC Part 15.205, RSS-247 RSS-210					Limit applied: See Report Section 6.2 Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
05/01/2024	Kouma Sinn <i>KPS</i>	N/A	Battery Powered	Continuous Transmitting	22	41	1005
05/02/2024	Kouma Sinn <i>KPS</i>	N/A	Battery Powered	Continuous Transmitting	22	42	1004
05/01/2024 (2 nd shift)	Vathana Ven <i>VSV</i>	N/A	Battery Powered	Continuous Transmitting	22	28	984
05/06/2024 (2 nd shift)	Vathana Ven <i>VSV</i>	N/A	Battery Powered	Continuous Transmitting	25	41	1001
06/24/2024	Vathana Ven <i>VSV</i>	N/A	Battery Powered	Continuous Transmitting	25	41	990
10/22/2025	Kouma Sinn <i>KPS</i>	N/A	Battery Powered	Continuous Transmitting	23	45	996

Deviations, Additions, or Exclusions: None

7 Digital Device Radiated Spurious Emissions

7.1 Method

Tests are performed in accordance with FCC Part 15 Subpart B, ISED ICES-003, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

- FS = Field Strength in dBμV/m
- RA = Receiver Amplitude (including preamplifier) in dBμV
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of

1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$

$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

7.2 Limit

§15.109 Radiated emission limits.

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Frequency of emission (MHz)	Field strength (microvolts/meter)	Field strength (dB μ V/m)
30-88	100	40.00
88-216	150	43.52
216-960	200	46.02
Above 960	500	54.00

Notes: The limits for ISED ICES-003 are the same as the FCC limits above.

7.3 Test Equipment Used:

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
145-406'	10m Track A In-floor Cable #1	Huber + Suhner	sucoflex 160-19220mm	001	07/19/2023	07/19/2024
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/19/2023	07/19/2024
147-326'	Immunity Cable	Huber + Suhner	Sucoflex 106	233089-005	07/19/2023	07/19/2024
PRE11'	50dB gain pre-amp	Pasternack	PRE11	PRE11	09/15/2023	09/15/2024
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	09/14/2023	09/14/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 1-13 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	07/19/2023	07/19/2024
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
PRE12'	Pre-amplifier	Com Power	PAM-118A	18040117	12/26/2023	12/26/2024
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	10/16/2023	10/16/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024

Software Utilized:

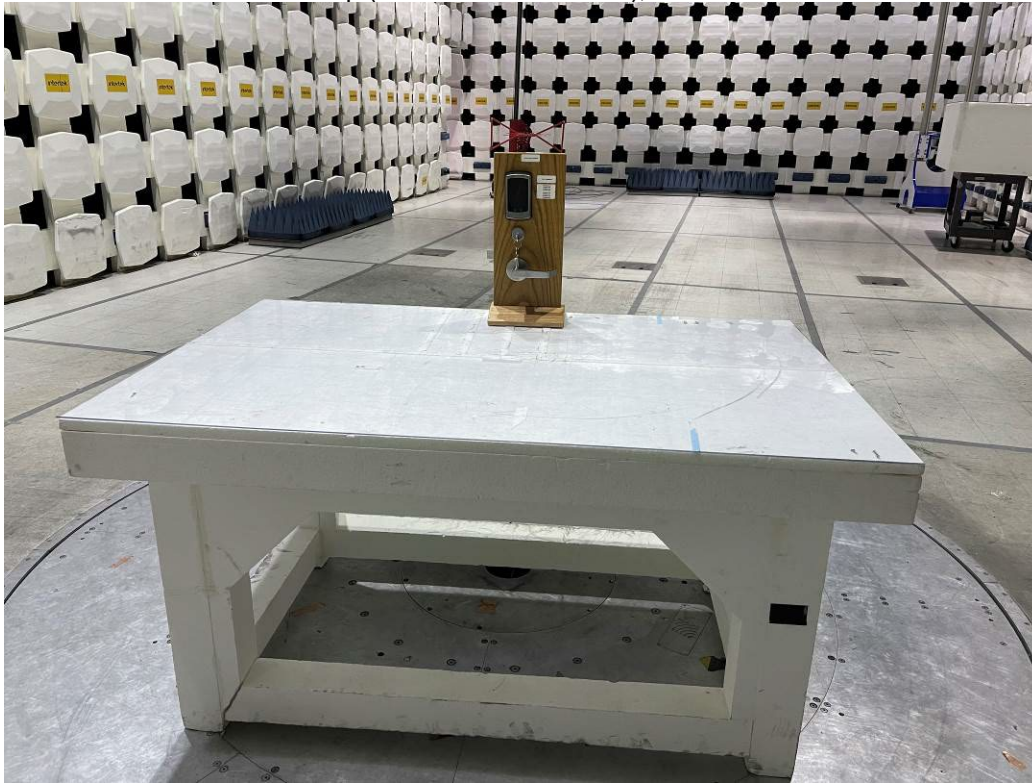
Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

7.4 Results:

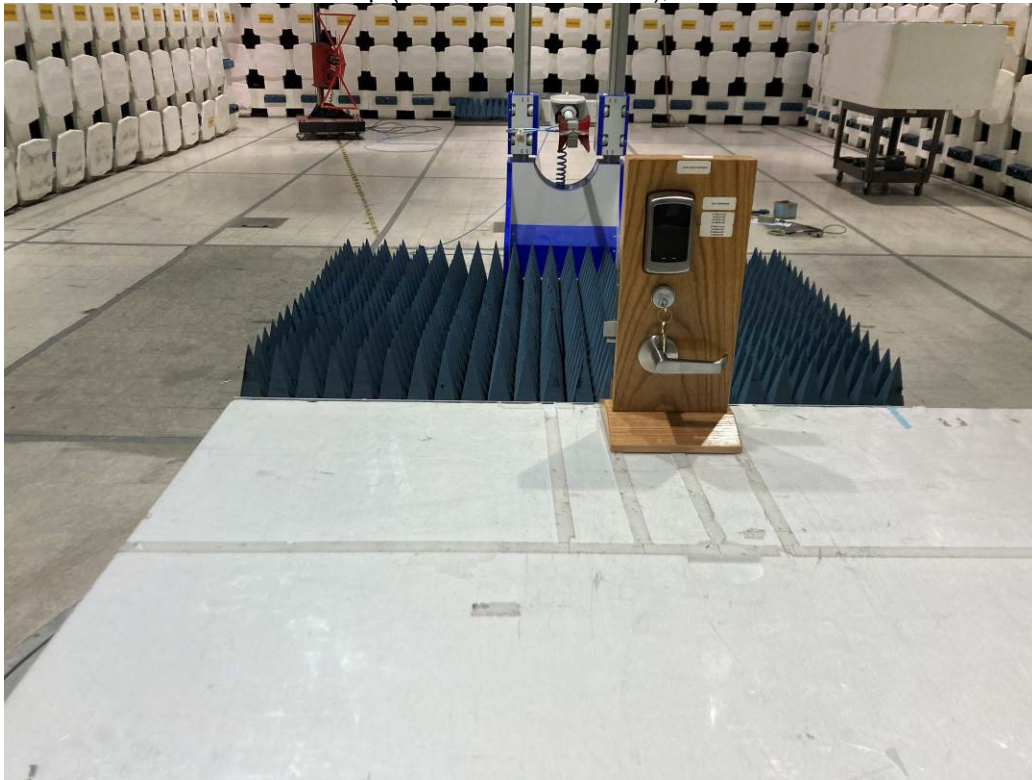
The sample tested was found to Comply.

7.5 Setup Photographs:

Test Setup (NTM – Touch Screen), 30-1000 MHz



Test Setup (NTM – Touch Screen), 1-13 GHz



Test Setup (NTM – Push Button), 30-1000 MHz



Test Setup (NTM – Push Button), 1-13 GHz



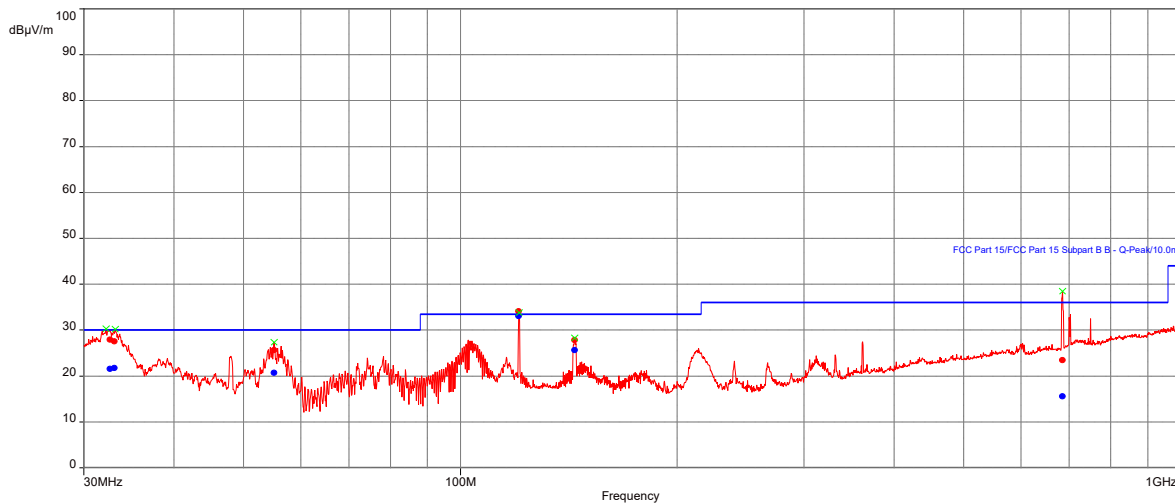
7.6 Plots/Data:

BLE (NTM-Touch Screen), Radiated Emissions From 30-1000 MHz With Radio in Standby Mode

Test Information:

Date and Time	5/1/2024 1:52:27 PM
Client and Project Number	Sargent Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 8_BLE - NTM Touchscreen, Rx High Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (6)

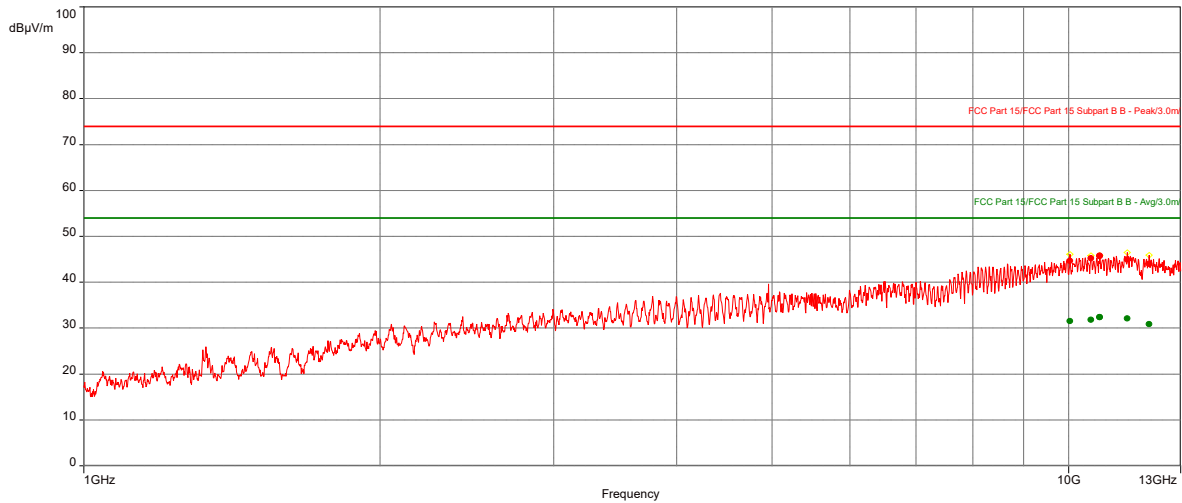
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
32.627	21.58	30.00	-8.42	256.20	2.45	Vertical	120k	1	-14.24
33.0828	21.78	30.00	-8.22	104.60	1.40	Vertical	120k	1	-14.52
55.137	20.71	30.00	-9.29	305.50	1.55	Vertical	120k	1	-26.16
120.5805	33.08	33.50	-0.42	202.60	1.31	Vertical	120k	1	-18.67
144.0166	25.66	33.50	-7.84	218.30	1.40	Vertical	120k	1	-19.29
685.3523	15.57	36.00	-20.43	234.80	1.70	Vertical	120k	1	-9.91

BLE (NTM-Touch Screen), Radiated Emissions From 1-13 GHz With Radio in Standby Mode

Test Information:

Date and Time	5/2/2024 7:59:11 PM
Client and Project Number	Sargent Assa Abloy (NTM & NTT-Touchscreen & Push Button)
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 45_BLE - NTM- Touch Screen, Rx High Channel, RE 1-13 GHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
10038.252	44.71	74.00	-29.29	360.00	1.00	Vertical	1M	-7.19
10543.488	45.29	74.00	-28.71	212.40	1.00	Vertical	1M	-6.62
10761.154	45.84	74.00	-28.16	0.00	3.94	Vertical	1M	-6.26
10761.489	45.77	74.00	-28.23	0.00	1.00	Horizontal	1M	-6.26
11480.606	44.97	74.00	-29.03	0.00	1.00	Horizontal	1M	-5.43
12075.883	44.04	74.00	-29.96	360.00	1.00	Horizontal	1M	-4.52

AVG (PASS) (6)

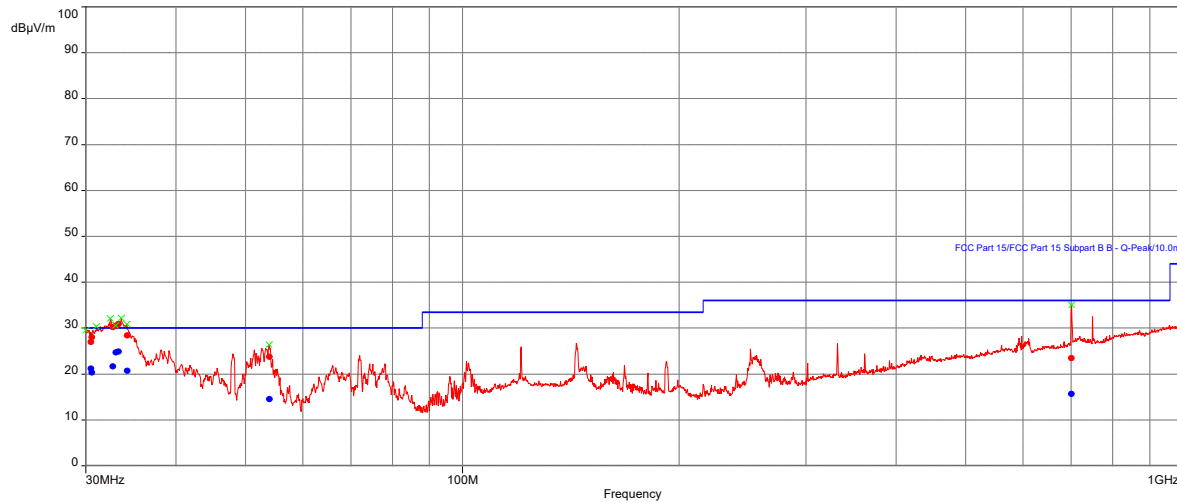
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
10038.252	31.54	54.00	-22.46	360.00	1.00	Vertical	1M	-7.19
10543.488	31.82	54.00	-22.18	212.40	1.00	Vertical	1M	-6.62
10761.154	32.40	54.00	-21.60	0.00	3.94	Vertical	1M	-6.26
10761.489	32.40	54.00	-21.60	0.00	1.00	Horizontal	1M	-6.26
11480.606	32.12	54.00	-21.88	0.00	1.00	Horizontal	1M	-5.43
12075.883	30.95	54.00	-23.05	360.00	1.00	Horizontal	1M	-4.52

BLE (NTM – Push Button), Radiated Emissions From 30-1000 MHz With Radio in Standby Mode

Test Information:

Date and Time	5/1/2024 11:11:17 AM
Client and Project Number	Sargent Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	41 %
Atmospheric Pressure	1005 mbars
Comments	Scan 4_BLE - NTM Push Button, Rx High Ch, RE 30-1000 MHz

Graph:



Results:

QuasiPeak (PASS) (8)

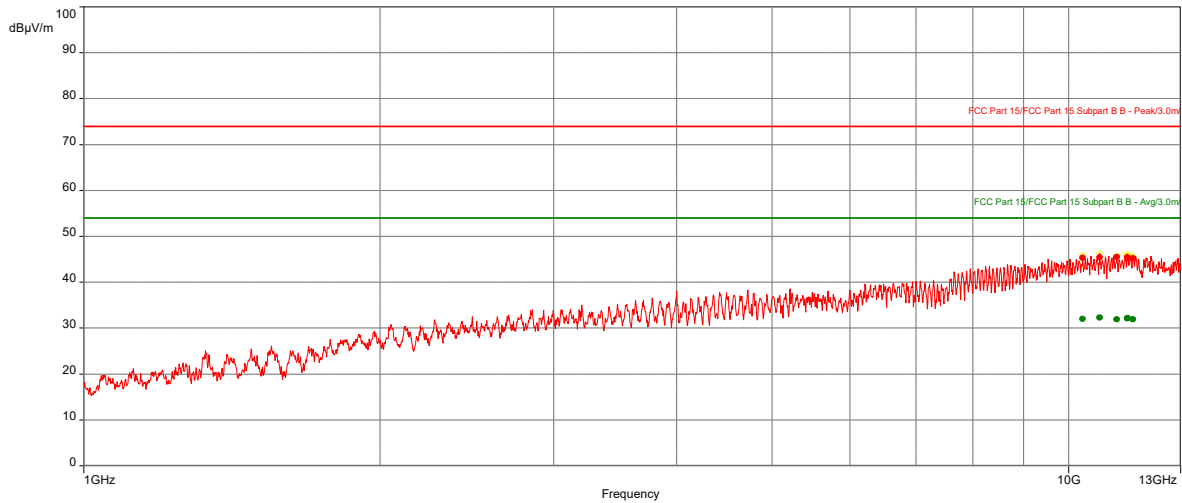
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time(s)	Correction (dB)
30.5158	21.25	30.00	-8.75	240.10	4.00	Vertical	120k	1	-12.91
30.6052	20.39	30.00	-9.61	44.80	1.40	Vertical	120k	1	-12.96
32.7413	21.72	30.00	-8.28	327.40	1.39	Vertical	120k	1	-14.31
33.0195	24.68	30.00	-5.32	104.70	1.56	Vertical	120k	1	-14.48
33.3112	24.87	30.00	-5.13	17.50	1.47	Vertical	120k	1	-14.67
34.2553	20.69	30.00	-9.31	235.10	3.83	Vertical	120k	1	-15.30
54.0102	14.51	30.00	-15.49	61.00	4.00	Vertical	120k	1	-26.18
701.284	15.65	36.00	-20.35	234.90	4.00	Horizontal	120k	1	-9.51

BLE (NTM – Push Button), Radiated Emissions From 1-13 GHz With Radio in Standby Mode

Test Information:

Date and Time	5/2/2024 8:38:40 PM
Client and Project Number	Sargent Assa Abloy (NTM & NTT-Touchscreen & Push Button)
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	42 %
Atmospheric Pressure	1004 mbars
Comments	Scan 46_BLE - NTM- Push Button, Rx High Channel, RE 1-13 GHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
10336.624	45.32	74.00	-28.68	0.00	1.00	Horizontal	1M	-6.81
10758.954	45.48	74.00	-28.52	0.00	4.00	Vertical	1M	-6.26
11196.97	45.51	74.00	-28.49	212.20	4.00	Vertical	1M	-5.76
11479.796	45.49	74.00	-28.51	0.00	4.00	Horizontal	1M	-5.43
11481.846	45.36	74.00	-28.64	0.00	4.00	Vertical	1M	-5.43
11627.013	45.23	74.00	-28.77	0.00	3.94	Vertical	1M	-5.17

AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
10336.624	32.03	54.00	-21.97	0.00	1.00	Horizontal	1M	-6.81
10758.954	32.30	54.00	-21.70	0.00	4.00	Vertical	1M	-6.26
11196.97	31.95	54.00	-22.05	212.20	4.00	Vertical	1M	-5.76
11479.796	32.18	54.00	-21.82	0.00	4.00	Horizontal	1M	-5.43
11481.846	32.25	54.00	-21.75	0.00	4.00	Vertical	1M	-5.43
11627.013	31.92	54.00	-22.08	0.00	3.94	Vertical	1M	-5.17

Intertek

Report Number: 105779713BOX-006b.3

Issued: 11/10/2025
Revised: 02/12/2026

Product Standard: FCC 47CFR15 Part 15 Subpart B, ISSED ICES-003					Limit applied: See Report Section 7.2 Pretest Verification w/BB source:Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
05/01/2024	Kouma Sinn <i>KPS</i>	Vathana Ven <i>VSV</i>	Internal battery	Standby	22	41	1005
05/02/2024	Kouma Sinn <i>KPS</i>	Vathana Ven <i>VSV</i>	Internal battery	Standby	22	42	1004

Deviations, Additions, or Exclusions: None

8 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	11/10/2025	105779713BOX-006b	KPS <i>KPS</i>	VFV <i>VFV</i>	Original Issue
1	12/18/2025	105779713BOX-006b.1	KPS <i>KPS</i>	VFV <i>VFV</i>	Updated RSS-247 from Issue 3 to 4
2	02/09/2025	105779713BOX-006b.2	KPS <i>KPS</i>	VFV <i>VFV</i>	See Note 1: below
3	02/12/2025	105779713BOX-006b.3	KPS <i>KPS</i>	VFV <i>VFV</i>	Corrected FCC & IC ID's on page 6

Note 1:

- Updated RSS-247 and RSS-210 issued date throughout the report.
- Included ANSI C63.10-2020 version in section 5.1 to cover Canada.
- Added a note, 'Due to the high noise floor of test equipment, the reading at 0.1675 MHz appears to be higher than the fundamental signal at 13.56023 MHz' in Section 6.1, Page 17.