

Assa Abloy Access and Egress Hardware Group, Inc.

RF Exposure REPORT

SCOPE OF WORK

RF Exposure – Emissions Testing – NTM613-ACC Push Button (BLE & 13.56 MHz RFID), NTM623-ACC Touch Screen (BLE & 13.56 MHz RFID)

REPORT NUMBER

106679509BOX-001a

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RF EXPOSURE REPORT (FULL COMPLIANCE)

Report Number: 106679509BOX-001a

Project Number: G106679509

Report Issue Date: September 30, 2026

Model(s) Tested: NTM613-ACC Push Button
NTM623-ACC Touch Screen

Model(s) Partially Tested: None

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

Standards: FCC Part 1.1310 Limits for Maximum Permissible Exposure (MPE)
KDB 447498 D01 General RF Exposure Guidance v06 Section 4.3.1(a)
RSS-102 Issue 6 December 15, 2023

FCC IDs: U4A-NTM600PBACC, U4A-NTT600TSACC
ICs: NTM600PBACC, 6982A- NTT600TSACC

Tested by:
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70 Codman Hill Road
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USA

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

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Table of Contents

1	<i>Introduction and Conclusion</i>	4
2	<i>Test Summary</i>	4
3	<i>Client Information</i>	5
4	<i>Description of Equipment Under Test and Variant Models</i>	5
5	<i>FCC SAR Exclusion Criteria</i>	6
6	<i>CANADA SAR exemption</i>	8
7	<i>Revision History</i>	11

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	FCC SAR Exclusion Criteria FCC Part 1.1310 Limits for Maximum Permissible Exposure (MPE) KDB 447498 D01 General RF Exposure Guidance v06 Section 4.3.1(a)	Pass
6	CANADA SAR exemption RSS-102 Issue 6 December 15, 2023	Pass
7	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 No.	Serial No.	HVIN	PMN
Real-time wireless access control BLE	Assa Abloy Access and Egress Hardware Group, Inc.	NTM613-ACC Push Button	A35XP100314	NTM613-ACC	NTM613-ACC
		NTM623-ACC Touch Screen	A35XP100315	NTM623-ACC	NTM623-ACC
RFID		NTM613-ACC Push Button	A34X0A01573	NTM613-ACC	NTM613-ACC
Real-time wireless access control		NTM623-ACC Touch Screen	A35XP100315	NTM623-ACC	NTM623-ACC

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

Pushbutton: NTM613-NR, NTM618-ACC, NTM618-NR, NTM633-ACC, NTM633-NR, NTM638-ACC, NTM638-NR

Touschscreen: NTM623-NR, NTM628-ACC, NTM628-NR, NTM643-ACC, NTM643-NR, NTM648-ACC, NTM648-NR

5 FCC SAR Exclusion Criteria

Per KDB 447498 D01 General RF Exposure Guidance v06 Section 4.3.1(a).

For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,³⁰ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz

BLE NTM613-ACC Push Button

Worst-case Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
2440	4.97	-6.54	4.97	3.14

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

5 mm was used for separation distance. SAR test exclusion threshold is:

$$(3.14/5) \cdot \sqrt{2.440} = 0.981 < 3.0, f = 2.440 \text{ GHz}$$

Conclusion: No SAR testing is required since the SAR test exclusion threshold is < 3.0.

BLE NTM623-ACC Touch Screen

Worst-case Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
2440	4.97	-3.41	4.97	3.14

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

5 mm was used for separation distance. SAR test exclusion threshold is:

$$(3.14/5) \cdot \sqrt{2.440} = 0.981 < 3.0, f = 2.440 \text{ GHz}$$

Conclusion: No SAR testing is required since SAR test exclusion threshold is < 3.0.

13.56 MHz RFID NTM623-ACC Touch Screen

The 13.56 MHz RFID at test separation distance < 50 mm.

The 1-g SAR test exclusion thresholds for transmitting frequency below 100 MHz at a test separation distance ≤ 50 mm are calculated as below.

Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
13.56	10.2	-54.85	10.2	10.471

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

SAR Test Exclusion Threshold:

$$0.5 \times [10.471 \text{ mW} / 50 \text{ mm}] \times \sqrt{0.01356 \text{ GHz}} = 0.0122 \text{ which is } \leq 3.0$$

Conclusion: The device is exempt from Standalone SAR test requirements.

13.56 MHz RFID NTM613-ACC Push Button

The 13.56 MHz RFID at test separation distance < 50 mm.

The 1-g SAR test exclusion thresholds for transmitting frequency below 100 MHz at a test separation distance ≤ 50 mm are calculated as below.

Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
13.56	9.77	-55.58	9.77	9.484

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

SAR Test Exclusion Threshold:

$$0.5 \times [9.484 \text{ mW} / 50 \text{ mm}] \times \sqrt{0.01356 \text{ GHz}} = 0.0110 \text{ which is } \leq 3.0$$

Conclusion: The device is exempt from Standalone SAR test requirements.

6 CANADA SAR exemption

RSS-102 Issue 6, Section 6.3.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

BLE NTM613-ACC Push Button

Worst-case Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
2440	4.97	-6.54	4.97	3.14

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

The EUT EIRP (mW) was compared to Limit for a separation distance ≤ 10 mm, $f = 2.44$ GHz

Linear extrapolation limit at 2.44 GHz between 1900 MHz and 2450 MHz is 7.055 mW

Conclusion: No SAR test is required as EIRP (mW) is less than 7.055 mW at separation distance ≤ 10 mm.

BLE NTM623-ACC Touch Screen

Worst-case Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
2440	4.97	-3.41	4.97	3.14

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

The EUT EIRP (mW) was compared to Limit for separation distance ≤ 10 mm, $f = 2.44$ GHz

Linear extrapolation limit at 2.44 GHz between 1900 MHz and 2450 MHz is 7.055 mW

Conclusion: No SAR test is required as EIRP (mW) is less than 7.055 mW at separation distance ≤ 10 mm.

13.56 MHz RFID NTM623-ACC Touch Screen

Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIPR (dBm)	EIRP (mW)
13.56	10.2	-54.85	10.2	10.471

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

The EUT EIRP (mW) was compared to Power Limits For Exemption From Routine SAR evaluation for a separation distance ≤ 5 mm at $f \leq 300$ MHz of 45 mW.

Conclusion: No SAR test is required as the EUT EIRP (mW) is less than 45 mW at separation distance ≤ 5 mm.

13.56 MHz RFID NTM613-ACC Push Button

Channel (MHz)	Worst-case Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)
13.56	9.77	-55.58	9.77	9.484

Note: Data was taken from Intertek Report # 106679509BOX-001.1. Antenna gain of 0 dBi was used for EIRP calculation.

The EUT EIRP (mW) was compared to Power Limits For Exemption From Routine SAR evaluation for a separation distance ≤ 5 mm at $f \leq 300$ MHz of 45 mW.

Conclusion: No SAR test is required as the EUT EIRP (mW) is less than 45 mW at separation distance ≤ 5 mm.

7 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	09/30/2026	106679509BOX-001a	KPS <i>KPS</i>	VFV <i>VFV</i>	Original Issue