



Project No: TM-2404000334P  
Report No.: TMWK2404001332KS

FCC ID: 2BFR9-N743

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# RF Exposure Evaluation Report

**FCC 47 CFR § 2.1091**

for  
**Smart Container Tracker**

**Model: Net Feasa**

Prepared for:  
**Net Feasa Limited**  
**An Cooleen,Dingle,V92 P9NX, co. kerry, Ireland**

Prepared by  
**Compliance Certification Services Inc.**  
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**New Taipei City, Taiwan**  
**Issued Date: September 12, 2024**

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## Revision History

| Rev. | Issue Date         | Revisions     | Effect Page | Revised By |
|------|--------------------|---------------|-------------|------------|
| 00   | September 12, 2024 | Initial Issue | ALL         | Peggy Tsai |


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## 1 Attestation of Test Results

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Net Feasa Limited<br>An Cooleen,Dingle,V92 P9NX, co. kerry, Ireland                                       |
| Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Net Feasa Limited<br>An Cooleen,Dingle,V92 P9NX, co. kerry, Ireland                                       |
| Model Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N743, N743G                                                                                               |
| Applicable Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC 47 CFR § 2.1091<br>FCC 47 CFR § 1.1307<br>FCC 47 CFR § 1.1310<br>Published RF exposure KDB procedures |
| Receive EUT Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | May 23, 2024                                                                                              |
| <p>Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainty.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> |                                                                                                           |
| <p>Approved &amp; Released By:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                           |
| <p>Sky Zhou<br/>Asst. Section Manager</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                           |



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## 2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1091, the following FCC Published RF exposure [KDB](#) procedures:

- 447498 D04 Interim General RF Exposure Guidance v01
- 865664 D02 RF Exposure Reporting v01r02

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### 3 Device Under Test (DUT) Information

#### 3.1 DUT Description

|                   |                                                                                                       |                       |
|-------------------|-------------------------------------------------------------------------------------------------------|-----------------------|
| Product           | Smart Container Tracker                                                                               |                       |
| Trade Name        | Net Feasa                                                                                             |                       |
| Model No.         | N743, N743G                                                                                           |                       |
| Model Discrepancy | Difference of the model numbers (list on this report) is just for external color difference as below: |                       |
|                   | <b>Model Number</b>                                                                                   | <b>External color</b> |
|                   | N743                                                                                                  | Black                 |
|                   | N743G                                                                                                 | Gray                  |
| EUT Serial #      | HOH44E00009                                                                                           |                       |
| Software Version  | 1.0                                                                                                   |                       |
| Hardware Version  | R01A                                                                                                  |                       |
| Sample Stage      | Identical prototype                                                                                   |                       |

### 3.2 Wireless Technologies

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Frequency bands</b></p>         | <p> <input type="checkbox"/> Bluetooth: 2402MHz-2480MHz<br/> <input type="checkbox"/> 802.11b/g/n HT20: 2412MHz ~ 2462 MHz<br/> <input type="checkbox"/> 802.11n HT40/ac VHT40/ax HE40: 2422MHz ~ 2452MHz<br/> <input type="checkbox"/> 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz<br/> <input type="checkbox"/> 802.11ac VHT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz<br/> <input type="checkbox"/> 802.11ax HE20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz<br/> <input type="checkbox"/> 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz<br/> <input type="checkbox"/> 802.11ac VHT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz<br/> <input type="checkbox"/> 802.11ax HE40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz<br/> <input type="checkbox"/> 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz ~ 5690MHz / 5775MHz<br/> <input type="checkbox"/> 802.11ax HE80: 5210MHz / 5290MHz / 5530MHz ~ 5690MHz / 5775MHz<br/> <input checked="" type="checkbox"/> Others:<br/> LoRa: 903.9 ~ 905.3 MHz<br/><br/> GSM/GPRS:<br/> GSM/GPRS 850: 850 MHz<br/> GSM/GPRS1900: 1900 MHz<br/><br/> LTE CAT-M1/NB2:<br/> LTE Band2: 1850-1910 MHz<br/> LTE Band4: 1710-1755 MHz<br/> LTE Band5: 824-849 MHz<br/> LTE Band8: 880-915 MHz<br/> LTE Band12: 699-716 MHz<br/> LTE Band13: 777-787 MHz<br/> LTE Band25: 1850-1915MHz<br/> LTE Band26: 814-849 MHz<br/> LTE Band66: 1710-1780MHz<br/> LTE Band85: 698-716 MHz </p> |
| <p><b>Exposure classification</b></p> | <p> <input type="checkbox"/> Occupational/Controlled exposure<br/> <input checked="" type="checkbox"/> General Population/Uncontrolled exposure </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Antenna Specification

### Type: Dielectric Chip Antenna

LoRa: Gain: 4.87 dBi  
GSM/GPRS 850: Gain: 4.15 dBi  
GSM/GPRS1900: 3.73 dBi  
LTE Band2: Gain: 3.73 dBi  
LTE Band4: Gain: 2.94 dBi  
LTE Band5: Gain: 4.15 dBi  
LTE Band8: Gain: 4.30 dBi  
LTE Band12: Gain: 0.13 dBi  
LTE Band13: Gain: 2.23 dBi  
LTE Band25: Gain: 3.73 dBi  
LTE Band26: Gain: 3.80 dBi  
LTE Band66: Gain: 2.94 dBi  
LTE Band85: Gain: 0.13 dBi

|              |                |          |                      |       |
|--------------|----------------|----------|----------------------|-------|
| LoRa:        | Antenna Gain : | 4.87 dBi | (Numeric gain: 3.07) | Worst |
| GSM/GPRS 850 | Antenna Gain:  | 4.15 dBi | (Numeric gain: 2.60) | Worst |
| GSM/GPRS1900 | Antenna Gain:  | 3.73 dBi | (Numeric gain: 2.36) | Worst |
| LTE Band2:   | Antenna Gain:  | 3.73 dBi | (Numeric gain: 2.36) | Worst |
| LTE Band4:   | Antenna Gain:  | 2.94 dBi | (Numeric gain: 1.97) | Worst |
| LTE Band5:   | Antenna Gain:  | 4.15 dBi | (Numeric gain: 2.60) | Worst |
| LTE Band8:   | Antenna Gain:  | 4.30 dBi | (Numeric gain: 2.69) | Worst |
| LTE Band12:  | Antenna Gain : | 0.13 dBi | (Numeric gain: 1.03) | Worst |
| LTE Band13:  | Antenna Gain:  | 2.23 dBi | (Numeric gain: 1.67) | Worst |
| LTE Band25:  | Antenna Gain:  | 3.73 dBi | (Numeric gain: 2.36) | Worst |
| LTE Band26:  | Antenna Gain:  | 3.80 dBi | (Numeric gain: 2.40) | Worst |
| LTE Band66:  | Antenna Gain:  | 2.94 dBi | (Numeric gain: 1.97) | Worst |
| LTE Band85:  | Antenna Gain:  | 0.13 dBi | (Numeric gain: 1.03) | Worst |



|                                      |                             |           |              |
|--------------------------------------|-----------------------------|-----------|--------------|
| <b>Maximum<br/>Tune up<br/>power</b> | <b>LoRa:</b>                | 14.50 dBm | (28.184 mW)  |
|                                      | <b>WWAN</b>                 |           |              |
|                                      | GSM/GPRS 850 (Burst Power): | 33.50 dBm | (2238.72 mW) |
|                                      | GSM/GPRS 850 (Frame Power)  | 24.50 dBm | (281.84 mW)  |
|                                      | GSM/GPRS1900 (Burst Power): | 30.50 dBm | (1122.02 mW) |
|                                      | GSM/GPRS 1900 (Frame Power) | 21.50 dBm | (141.25 mW)  |
|                                      | LTE Band2:                  | 24.50 dBm | (281.838 mW) |
|                                      | LTE Band4:                  | 24.50 dBm | (281.838 mW) |
|                                      | LTE Band5:                  | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band8:                  | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band12:                 | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band13:                 | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band25:                 | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band26:                 | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band66:                 | 24.50 dBm | (281.84 mW)  |
|                                      | LTE Band85:                 | 24.50 dBm | (281.838 mW) |

#### Notes:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. The Lora tune up power referred the AVG power of the test report TMWK2404001328KR for RF Exposure assessment purpose.
4. The WWAN tune up power referred the HL7812 Radio module report for RF Exposure assessment purpose.

## 4 Maximum Permissible Exposure

### 4.1 Limits for Maximum Permissible Exposure (MPE)

**Table 1 - Limits for Maximum Permissible Exposure (MPE)**

| Frequency range<br>(MHz)                                | Electric field<br>strength<br>(V/m) | Magnetic field<br>strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|---------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-----------------------------|
| (A) Limits for Occupational/Controlled Exposure         |                                     |                                     |                                        |                             |
| 0.3-3.0                                                 | 614                                 | 1.63                                | * 100                                  | 6                           |
| 3.0-30                                                  | 1842/f                              | 4.89/f                              | * 900/f <sup>2</sup>                   | 6                           |
| 30-300                                                  | 61.4                                | 0.163                               | 1.0                                    | 6                           |
| 300-1,500                                               |                                     |                                     | f/300                                  | 6                           |
| 1,500-100,000                                           |                                     |                                     | 5                                      | 6                           |
| (B) Limits for General Population/Uncontrolled Exposure |                                     |                                     |                                        |                             |
| 0.3-1.34                                                | 614                                 | 1.63                                | * 100                                  | 30                          |
| 1.34-30                                                 | 824/f                               | 2.19/f                              | * 180/f <sup>2</sup>                   | 30                          |
| 30-300                                                  | 27.5                                | 0.073                               | 0.2                                    | 30                          |
| 300-1,500                                               |                                     |                                     | f/1500                                 | 30                          |
| <b><u>1,500-100,000</u></b>                             |                                     |                                     | 1.0                                    | 30                          |

## 4.2 MPE Calculation Method

### Calculation

Given  $E = \frac{\sqrt{30 \times P \times G}}{d}$  &  $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \text{ Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm<sup>2</sup>

If, Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

### 4.3 MPE EXEMPTION

- (A) The available maximum time-averaged power is no more than 1 mW
- (B) The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$d$  = the separation distance (cm);

- (C) Using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| Single RF Sources Subject to Routine Environmental Evaluation |                       |
|---------------------------------------------------------------|-----------------------|
| RF Source frequency (MHz)                                     | Threshold ERP (watts) |
| 0.3-1.34                                                      | $1,920 R^2$ .         |
| 1.34-30                                                       | $3,450 R^2/f^2$ .     |
| 30-300                                                        | $3.83 R^2$ .          |
| 300-1,500                                                     | $0.0128 R^2 f$ .      |
| 1,500-100,000                                                 | $19.2 R^2$ .          |
| Note: R is in meters, f is in MHz.                            |                       |

#### 4.4 Multiple RF sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

## 5 MPE Exemption Option B

### Lora

| Mode | Frequency (MHz) | R(m) | Max Tune-up power (dBm) | G(dBi) | Max Tune-up EIRP (dBm) | Max Tune-up ERP (dBm) | Max Tune-up ERP (mW) | ERP Threshold (mW) | MPE Exemption |
|------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| Lora | 903.70          | 0.2  | 14.5                    | 4.87   | 19.37                  | 17.22                 | 52.723               | 1844               | Complies      |

### WWAN

| Mode         | Frequency (MHz) | R(m) | Max Tune-up power (dBm) | G(dBi) | Max Tune-up EIRP (dBm) | Max Tune-up ERP (dBm) | Max Tune-up ERP (mW) | ERP Threshold (mW) | MPE Exemption |
|--------------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| GSM/GPRS 850 | 824.00          | 0.2  | 24.5                    | 4.15   | 28.65                  | 26.50                 | 446.684              | 1681               | Complies      |
| GSM/GPRS1900 | 1850.00         | 0.2  | 21.5                    | 3.73   | 25.23                  | 23.08                 | 203.236              | 3060               | Complies      |
| LTE Band 2   | 1850.00         | 0.2  | 24.5                    | 3.73   | 28.23                  | 26.08                 | 405.509              | 3060               | Complies      |
| LTE Band 4   | 1710.00         | 0.2  | 24.5                    | 2.94   | 27.44                  | 25.29                 | 338.065              | 3060               | Complies      |
| LTE Band 5   | 824.00          | 0.2  | 24.5                    | 4.15   | 28.65                  | 26.50                 | 446.684              | 1681               | Complies      |
| LTE Band 8   | 897.50          | 0.2  | 24.5                    | 4.30   | 28.80                  | 26.65                 | 462.381              | 1831               | Complies      |
| LTE Band 12  | 699.00          | 0.2  | 24.5                    | 0.13   | 24.63                  | 22.48                 | 177.011              | 1426               | Complies      |
| LTE Band 13  | 777.00          | 0.2  | 24.5                    | 2.23   | 26.73                  | 24.58                 | 287.078              | 1585               | Complies      |
| LTE Band 25  | 1850.00         | 0.2  | 24.5                    | 3.73   | 28.23                  | 26.08                 | 405.509              | 3060               | Complies      |
| LTE Band 26  | 814.00          | 0.2  | 24.5                    | 3.80   | 28.30                  | 26.15                 | 412.098              | 1661               | Complies      |
| LTE Band 66  | 1710.00         | 0.2  | 24.5                    | 2.94   | 27.44                  | 25.29                 | 338.065              | 3060               | Complies      |
| LTE Band 85  | 698.00          | 0.2  | 24.5                    | 0.13   | 24.63                  | 22.48                 | 177.011              | 1424               | Complies      |

## 6 Simultaneous Transmission Analysis

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

### Simultaneous Transmission Condition

| RF Exposure Condition | Item | Capable Transmit Configurations |
|-----------------------|------|---------------------------------|
|                       | 1    | LoRa + WWAN                     |

### 6.1 Sum of the Lora + WWAN

| Mode         | Frequency (MHz) | Max Tune-up ERP(mW) | ERP Threshold(mW) | simultaneous Transmission | simultaneous Transmission Limit |
|--------------|-----------------|---------------------|-------------------|---------------------------|---------------------------------|
| Lora         | 903.70          | 52.723              | 1844              | 0.294                     | ≤1                              |
| GSM/GPRS 850 | 824.00          | 446.684             | 1681              |                           |                                 |

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## 7 Facilities

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

☐ No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan.

**--End of Test Report--**