



Project No.: TM-2308000057P  
Report No.: TMWK2308002693KS

FCC ID: VPYLBEE6XX1UR

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# RF Exposure Evaluation Report

**FCC 47 CFR § 2.1091**

for  
**Communication module**

**Model Name.: LBEE6XX1UR**

Prepared for:

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Prepared by

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Issue Date: September 22, 2023**

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**Revision History**

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## 1 Attestation of Test Results

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Applicant Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Murata manufacturing co., ltd.                                                                            |
| Model Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LBEE6XX1UR                                                                                                |
| 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | August 7, 2023                                                                                            |
| <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<br/>Compliance Certification Services Inc.</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           | Communication module |
| Trade Name        | muRata               |
| Model No.         | LBEE6XX1UR           |
| Model Discrepancy | N/A                  |
| Hardware Version  | 1.0                  |
| Software Version  | 1.0                  |
| Sample Stage      | Identical prototype  |

### 3.2 Wireless Technologies

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |          |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------------------|-------|-----------------------|----------|----------------------|-------|------------------------|----------|----------------------|-------|------------------------|----------|----------------------|-------|-----------------------|----------|----------------------|-------|
| Frequency bands         | <div><input checked="" type="checkbox"/> Bluetooth: 2402 MHz~2480 MHz</div> <div><input type="checkbox"/> 802.11b/g/n HT20: 2412 MHz~2462 MHz</div> <div><input type="checkbox"/> 802.11n HT40: 2422 MHz~2452 MHz</div> <div><input checked="" type="checkbox"/> 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz</div> <div><input checked="" type="checkbox"/> 802.11ac VHT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz</div> <div><input checked="" type="checkbox"/> 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz</div> <div><input checked="" type="checkbox"/> 802.11ac VHT 40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz</div> <div><input checked="" type="checkbox"/> 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz ~ 5690MHz / 5775MHz</div> <div><input type="checkbox"/> 802.11ac VHT160/ax HE160: 5250 MHz / 5570 MHz</div> <div><input type="checkbox"/> Others</div> |                      |          |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| Exposure classification | <div><input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm2)</div> <div><input checked="" type="checkbox"/> General Population/Uncontrolled exposure</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |          |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| Antenna Specification   | <div>Type / Brand / Model:<br/>Monopole Antenna / PSA / VGAP-CLB-AS-A1</div> <div>(1) Bluetooth: Gain: 1 dBi</div> <div>(2) WIFI 5GHz:: Gain: 1.7 dBi</div> <div><div>Antenna Gain:</div><table><tr><td>Bluetooth</td><td>1.00 dBi</td><td>(Numeric gain: 1.26)</td><td>Worst</td></tr><tr><td>WIFI 5.2GHz (U-NII 1)</td><td>1.70 dBi</td><td>(Numeric gain: 1.48)</td><td>Worst</td></tr><tr><td>WIFI 5.3GHz (U-NII 2a)</td><td>1.70 dBi</td><td>(Numeric gain: 1.48)</td><td>Worst</td></tr><tr><td>WIFI 5.5GHz (U-NII 2c)</td><td>1.70 dBi</td><td>(Numeric gain: 1.48)</td><td>Worst</td></tr><tr><td>WIFI 5.8GHz (U-NII 3)</td><td>1.70 dBi</td><td>(Numeric gain: 1.48)</td><td>Worst</td></tr></table></div>                                                                                                                                                                                                                                                                                                                                    | Bluetooth            | 1.00 dBi | (Numeric gain: 1.26) | Worst | WIFI 5.2GHz (U-NII 1) | 1.70 dBi | (Numeric gain: 1.48) | Worst | WIFI 5.3GHz (U-NII 2a) | 1.70 dBi | (Numeric gain: 1.48) | Worst | WIFI 5.5GHz (U-NII 2c) | 1.70 dBi | (Numeric gain: 1.48) | Worst | WIFI 5.8GHz (U-NII 3) | 1.70 dBi | (Numeric gain: 1.48) | Worst |
| Bluetooth               | 1.00 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Numeric gain: 1.26) | Worst    |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| WIFI 5.2GHz (U-NII 1)   | 1.70 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Numeric gain: 1.48) | Worst    |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| WIFI 5.3GHz (U-NII 2a)  | 1.70 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Numeric gain: 1.48) | Worst    |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| WIFI 5.5GHz (U-NII 2c)  | 1.70 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Numeric gain: 1.48) | Worst    |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |
| WIFI 5.8GHz (U-NII 3)   | 1.70 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Numeric gain: 1.48) | Worst    |                      |       |                       |          |                      |       |                        |          |                      |       |                        |          |                      |       |                       |          |                      |       |

|                             |                               |           |             |
|-----------------------------|-------------------------------|-----------|-------------|
| Maximum<br>tune up<br>power | <b>Bluetooth</b>              |           |             |
|                             | BT                            | 3.50 dBm  | (2.239 mW)  |
|                             | <b>WIFI 5.2GHz (U-NII 1)</b>  |           |             |
|                             | IEEE 802.11a                  | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 20            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 40            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 20          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 40          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 80          | 13.00 dBm | (19.953 mW) |
|                             | <b>WIFI 5.3GHz (U-NII 2A)</b> |           |             |
|                             | IEEE 802.11a                  | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 20            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 40            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 20          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 40          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 80          | 13.00 dBm | (19.953 mW) |
|                             | <b>WIFI 5.5GHz (U-NII 2C)</b> |           |             |
|                             | IEEE 802.11a                  | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 20            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 40            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 20          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 40          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 80          | 13.00 dBm | (19.953 mW) |
|                             | <b>WIFI 5.8GHz (U-NII 3)</b>  |           |             |
|                             | IEEE 802.11a                  | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 20            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11n HT 40            | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 20          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 40          | 13.00 dBm | (19.953 mW) |
|                             | IEEE 802.11ac VHT 80          | 13.00 dBm | (19.953 mW) |

**Notes:**

- For more details, please refer to the User's manual of the EUT.
- Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- The tune up power referred the AVG power of the test report TMWK2308002691KR, TMWK2308002692KR and TMWK2308002698KR 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 (MHz)                                   | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (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 = 30 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),

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



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## 5 MPE Exemption Option B

### Bluetooth

| 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 |
|------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| BT   | 2480.00         | 0.2  | 3.5                     | 1.00   | 4.50                   | 2.35                  | 1.718                | 3060               | Complies      |

### WIFI 5.2GHz (U-NII 1)

| 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 |
|----------------------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| IEEE 802.11a         | 5240.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 20   | 5240.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 40   | 5230.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 20 | 5240.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 40 | 5230.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 80 | 5210.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |

### WIFI 5.3GHz (U-NII 2A)

| 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 |
|----------------------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| IEEE 802.11a         | 5320.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 20   | 5320.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 40   | 5310.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 20 | 5320.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 40 | 5310.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 80 | 5290.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |

### WIFI 5.5GHz (U-NII 2C)

| 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 |
|----------------------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| IEEE 802.11a         | 5720.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 20   | 5720.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT 40   | 5710.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 20 | 5720.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 40 | 5710.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT 80 | 5690.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |

### WIFI 5.8GHz (U-NII 3)

| 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 |
|---------------------|-----------------|------|-------------------------|--------|------------------------|-----------------------|----------------------|--------------------|---------------|
| IEEE 802.11a        | 5825.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT20   | 5825.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11n HT40   | 5795.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT20 | 5825.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT40 | 5795.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |
| IEEE 802.11ac VHT80 | 5775.00         | 0.2  | 13.0                    | 1.70   | 14.70                  | 12.55                 | 17.989               | 3060               | Complies      |

### 6 Simultaneous Transmission Exempt

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    | WiFi 5GHz                       | + Bluetooth |

#### 6.1 Sum of the WIFI 5GHz & Bluetooth

| Mode      | Frequency (MHz) | Max Tune-up ERP(mW) | ERP Threshold(mW) | simultaneous Transmission | simultaneous Transmission Limit |
|-----------|-----------------|---------------------|-------------------|---------------------------|---------------------------------|
| WiFi 5GHz | 5825.00         | 17.989              | 3060              | 0.006                     | ≤1                              |
| Bluetooth | 2480.00         | 1.718               | 3060              |                           |                                 |



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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 REPORT**