

### **ELEMENT MATERIALS TECHNOLOGY**

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# **COMPLIANCE SUMMARY REPORT**

**Applicant Name:** 

Apple, Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2503270029-30.BCG
Test Report Issue Date:

08/06/2025

FCC ID: BCG-A3281

APPLICANT: APPLE, INC.

Report Type: Compliance Summary

DUT Type: Watch

Model: A3281, A3282





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## 1 STRATEGY FOR COMPLIANCE DEMONSTRATION

### 1.1 RF Exposure Evaluation Strategy

The FCC RF exposure limits defined based on time-averaged RF exposure. The device under test (DUT) uses the MediaTek Time-averaged SAR algorithm feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement for 4G/5G NR operations. Additionally, this device supports WLAN/BT/NTN/NFC/802.15.4 AB-NB technologies, but the output power of these modems is not controlled by the Time-averaged SAR algorithm.

Demonstrating compliance of DUT enabled with MediaTek Time-averaged SAR algorithm feature is completed in three parts:

#### 0. RF Exposure Compliance Test Report Part 0: SAR Characterization

The SAR Characterization, denoted as SAR Char, determines the power limit that meets FCC exposure requirement after accounting for device design related uncertainties for each supported radio configuration and RF exposure usage scenario. The determined power limits will be loaded and stored in the EUT via the Embedded File System (EFS), and then used as inputs for Time-averaged SAR to operate.

For 4G/5G Sub6, SAR Char is derived from SAR test measurements and conducted power measurements to determine  $P_{Limit}$  for each technology/band. The  $P_{Limit}$  represents the maximum time-averaged power level for the corresponding radio/antenna configuration.

#### 1. RF Exposure Compliance Test Report Part 1: Test in Static Transmission Condition

Part 1 demonstrates that DUT meets FCC SAR limits when transmitting at pre-determined maximum time-averaged power level: *P*<sub>Limit</sub> for 4G/5G Sub6 NR. The SAR measurement in Part 1 is under static transmission condition.

The compliance for WLAN/BT/NTN/NFC/802.15.4 AB-NB radio is demonstrated at a fixed power level (fixed = maximum RF tune-up level or power-back off level).

The exposure from the simultaneous transmission of WLAN/BT/NTN/NFC/802.15.4 AB-NB is evaluated in Part 1 report.

#### 2. RF Exposure Compliance Test Report Part 2: Test in Dynamic Transmission Condition

Part 2 demonstrates compliance in Tx varying transmission conditions and validates MediaTek algorithm. The test results reported in Part 2 demonstrate that DUT complies with FCC RF exposure requirement under Tx varying transmission scenarios, thereby validity MediaTek Time-averaged SAR.

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## 1.2 Nomenclature

| Applicable Technologies | Term               | Description  |
|-------------------------|--------------------|--|
|                         | P <sub>Limit</sub> | Power level that corresponds to the exposure design        |
|                         |                    | target (SAR_design_target) after accounting for all device |
|                         |                    | design related uncertainties                               |
| 4G/5G Sub6              | P <sub>Max</sub>   | Maximum tune up output power                               |
| 4G/3G Subb              | T <sub>SAR</sub>   | Defined time averaging window for <i>f</i> < 6 GHz         |
|                         | SAR_design_target  | Target SAR level resulting in maximum time-averaged        |
|                         |                    | exposure optimized from total uncertainty                  |
|                         | SAR Char           | Table containing <i>Plimit</i> for all technologies        |

# 1.3 Bibliography

| Report Type                    | Report Serial Number |
|--------------------------------|----------------------|
| SAR Part 0 Test Report         | 1C2503270029-27.BCG  |
| SAR Part 1 Test Report         | 1C2503270029-28.BCG  |
| RF Exposure Part 2 Test Report | 1C2503270029-29.BCG  |

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### 2 TIME AVERAGING ALGORITHM

#### 2.1 Algorithm Description

The FCC RF exposure limit is defined based on time-averaged RF exposure. When running in a wireless device, MediaTek's Time-averaged SAR algorithm enables more elegant power control mechanisms for RF exposure management. It ensures at all times the wireless device is in compliance with the FCC limit of RF exposure time-averaged over a defined time window, denoted as  $T_{SAR}$  for specific absorption rate (SAR for transmit frequency < 6 GHz).

The Time-averaged SAR algorithm not only ensures the wireless device complies with RF exposure requirement, but also improves the user experience and network performance.

For a given wireless device, RF exposure is proportional to the transmitting power.

- Once the SAR of the wireless device is characterized at a transmit power level, RF exposure at a different power level for the characterized configurations can be scaled by the change in the corresponding power level.
- Therefore, for a characterized device, RF exposure compliance can be achieved through transmit power control and management.

The MediaTek's Time-averaged SAR algorithm embedded in MediaTek's modems reliably controls the transmit power of the wireless device in real time to maintain the time-averaged transmit power, in turn, time-averaged RF exposure, below the predefined time-averaged power limit for each characterized technology and band.

- This predefined time-averaged power limit is denoted as P<sub>Limit</sub> corresponding SAR limit (frequency < 6 GHz) in this report.</li>
- The wireless device continuously transmitting at *P*<sub>Limit</sub> level complies with the FCC RF exposure requirement.

In a simultaneous transmission scenario, the algorithm manages all active transmitters and make sure the total exposure ratio from each transmitter not exceeding to 1.

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## 2.2 Basic concept of the algorithm

The Time-averaged SAR algorithm controls and manages the instantaneous transmit power (Tx) to maintain the time-averaged Tx power and therefore, time-averaged RF exposure in compliance with FCC limits.

- If time-averaged transmit power approaches  $P_{Limit}$ , then the modem needs to limit instantaneous transmit power to ensure the time-averaged transmit power does not exceed  $P_{Limit}$  in any  $T_{SAR}$  time windows since the time-averaged RF exposure is required to comply with the FCC RF exposure limit in any  $T_{SAR}$  time window.
- The wireless device can instantaneously transmit at high transmit powers and exceed the  $P_{Limit}$  or level for a short duration before limiting the power to maintain the time-averaged transmit power under  $P_{Limit}$ .
- If the wireless device transmits at high power for a long time, then the radio link needs to be dropped to be compliant with time-averaged Tx power requirement (see Figure 2-1).
- To avoid dropping the radio link, Time-averaged SAR algorithm starts the power limiting enforcement earlier in time to back off the Tx power to a reserve level (denoted as  $P_{UE\_backoff}$ ), so the wireless device can maintain the radio link at a minimum backoff power level for as long as needed, and at the same time ensure the time-averaged Tx power over any defined time window is less than  $P_{Limit}$  at all times (see Figure 2-2). At all times, Time-averaged SAR algorithm meets the below equation:

time. 
$$avg. Tx\ power = \frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} inst. Tx\ power(t)\ dt \le P_{limit}$$
 Equation 2-1

where,  $time.avg.Tx\ power$  is the transmit power averaged between  $t-T_{SAR}$  and t time period;  $T_{SAR}$  is the time window defined by FCC for time-averaging RF exposure for Tx frequency less than 6GHz (sub6);  $inst.\ Tx\ power\ (t)$  is the instantaneous transmit power at t time instant;  $P_{Limit}$  is the predefined time-averaged power limit.

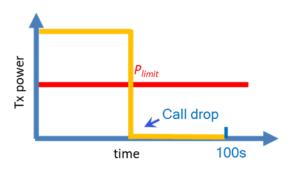


Figure 2-1
Transmit at high power when needed and permitted

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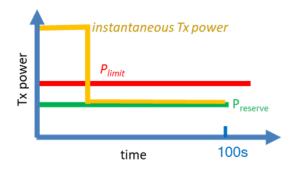


Figure 2-2
Transmit with backoff power to support continuous transmission at a minimum power level (*Pue\_backoff*)

■ In the case of simultaneous transmission, MediaTek's time-averaged SAR algorithm manages all active transmitters and make sure the total exposure ratio is less than 1

$$\sum \frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} SAR(t) \, dt \\ FCC \, SAR \, limit \leq 1$$

**Equation 2-2** 

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#### 3.1 Device Overview

| Band & Mode   Operating Modes   Tx Frequency   |                    |                 |                           |
|--|--------------------|-----------------|---------------------------|
| LTE Band 12 Voice/Data 699.7 - 715.3 MHz  LTE Band 17 Voice/Data 706.5 - 713.5 MHz  LTE Band 13 Voice/Data 779.5 - 784.5 MHz  LTE Band 14 Voice/Data 790.5 - 795.5 MHz  LTE Band 26 (Cell) Voice/Data 814.7 - 848.3 MHz  LTE Band 5 (Cell) Voice/Data 1710.7 - 1779.3 MHz  LTE Band 66 (AWS) Voice/Data 1710.7 - 1779.3 MHz  LTE Band 4 (AWS) Voice/Data 1850.7 - 1914.3 MHz  LTE Band 25 (PCS) Voice/Data 1850.7 - 1914.3 MHz  LTE Band 7 Voice/Data 2502.5 - 2567.5 MHz  LTE Band 41 Voice/Data 2498.5 - 2687.5 MHz  LTE Band 53 Voice/Data 2488.5 - 2490 MHz  NR Band n71 Voice/Data 665.5 - 695.5 MHz  NR Band n12 Voice/Data 701.5 - 713.5 MHz  NR Band n14 Voice/Data 700.5 - 795.5 MHz  NR Band n5 (Cell) Voice/Data 816.5 - 846.5 MHz  NR Band n66 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n66 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n7 Voice/Data 2502.5 - 2567.5 MHz  NR Band n66 (AWS) Voice/Data 160.5 - 695.5 MHz  NR Band n7 Voice/Data 260.5 - 846.5 MHz  NR Band n866 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n966 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n966 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n966 (AWS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 1852.5 - 1907.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2502.5 - 2567.5 MHz  NR Band n966 (AWS) Voice/Data 2442 - 2472 MHz  U-NII-2C: 5500 - 5720 MHz  U-NII-2C: 5500 - 5720 MHz  U-NII-3: 5745 - 5825 MHz  Bluetooth Data 2402 - 2480 MHz | Band & Mode        | Operating Modes | Tx Frequency              |
| LTE Band 17  | LTE Band 71        | Voice/Data      | 665.5 - 695.5 MHz         |
| LTE Band 13 Voice/Data 779.5 - 784.5 MHz  LTE Band 14 Voice/Data 790.5 - 795.5 MHz  LTE Band 26 (Cell) Voice/Data 814.7 - 848.3 MHz  LTE Band 5 (Cell) Voice/Data 824.7 - 848.3 MHz  LTE Band 66 (AWS) Voice/Data 1710.7 - 1779.3 MHz  LTE Band 4 (AWS) Voice/Data 1710.7 - 1754.3 MHz  LTE Band 25 (PCS) Voice/Data 1850.7 - 1914.3 MHz  LTE Band 2 (PCS) Voice/Data 1850.7 - 1909.3 MHz  LTE Band 7 Voice/Data 2502.5 - 2567.5 MHz  LTE Band 7 Voice/Data 2498.5 - 2687.5 MHz  LTE Band 53 Voice/Data 2488.5 - 2490 MHz  NR Band n71 Voice/Data 665.5 - 695.5 MHz  NR Band n12 Voice/Data 701.5 - 713.5 MHz  NR Band n14 Voice/Data 790.5 - 795.5 MHz  NR Band n26 (Cell) Voice/Data 816.5 - 846.5 MHz  NR Band n5 (Cell) Voice/Data 826.5 - 846.5 MHz  NR Band n66 (AWS) Voice/Data 1712.5 - 1777.5 MHz  NR Band n27 (PCS) Voice/Data 1852.5 - 1912.5 MHz  NR Band n41 Voice/Data 2502.5 - 2567.5 MHz  NR Band n53 Voice/Data 1852.5 - 1907.5 MHz  NR Band n60 (AWS) Voice/Data 1852.5 - 1907.5 MHz  NR Band n53 Voice/Data 2502.5 - 2567.5 MHz  NR Band n53 Voice/Data 1852.5 - 1907.5 MHz  NR Band n53 Voice/Data 2502.5 - 2567.5 MHz  NR Band n53 Voice/Data 2502.5 - 2567.5 MHz  NR Band n53 Voice/Data 2488.5 - 2490MHz  NR Band n54 Voice/Data 2488.5 - 2490MHz  NR Band n55 Data 1610.2 - 1626 MHz  2.4 GHz WLAN Voice/Data 2412 - 2472 MHz  U-NII-1: 5180 - 5240 MHz  U-NII-2: 5500 - 5720 MHz  U-NII-2: 5500 - 5720 MHz  U-NII-3: 5745 - 5825 MHz  Bluetooth Data 2402 - 2480 MHz  | LTE Band 12        | Voice/Data      | 699.7 - 715.3 MHz         |
| LTE Band 14         Voice/Data         790.5 - 795.5 MHz           LTE Band 26 (Cell)         Voice/Data         814.7 - 848.3 MHz           LTE Band 5 (Cell)         Voice/Data         824.7 - 848.3 MHz           LTE Band 66 (AWS)         Voice/Data         1710.7 - 1754.3 MHz           LTE Band 4 (AWS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 25 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 7         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 41         Voice/Data         2488.5 - 2490 MHz           NR Band 7         Voice/Data         665.5 - 695.5 MHz           NR Band n71         Voice/Data         701.5 - 713.5 MHz           NR Band n12         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         1852.5 - 1907.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685  | LTE Band 17        | Voice/Data      | 706.5 - 713.5 MHz         |
| LTE Band 26 (Cell)         Voice/Data         814.7 - 848.3 MHz           LTE Band 5 (Cell)         Voice/Data         824.7 - 848.3 MHz           LTE Band 66 (AWS)         Voice/Data         1710.7 - 1759.3 MHz           LTE Band 4 (AWS)         Voice/Data         1710.7 - 1754.3 MHz           LTE Band 25 (PCS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n7         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n83         Voice/Data         2488.5 - 2  | LTE Band 13        | Voice/Data      | 779.5 - 784.5 MHz         |
| LTE Band 5 (Cell)         Voice/Data         824.7 - 848.3 MHz           LTE Band 66 (AWS)         Voice/Data         1710.7 - 1779.3 MHz           LTE Band 4 (AWS)         Voice/Data         1710.7 - 1754.3 MHz           LTE Band 25 (PCS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n66 (AWS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NR Band n53         Voice/Data         2488.5 - 2490MH  | LTE Band 14        | Voice/Data      | 790.5 - 795.5 MHz         |
| LTE Band 66 (AWS)         Voice/Data         1710.7 - 1779.3 MHz           LTE Band 4 (AWS)         Voice/Data         1710.7 - 1754.3 MHz           LTE Band 25 (PCS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n66 (AWS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz<  | LTE Band 26 (Cell) | Voice/Data      | 814.7 - 848.3 MHz         |
| LTE Band 4 (AWS)         Voice/Data         1710.7 - 1754.3 MHz           LTE Band 25 (PCS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n66 (AWS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           U-NII-21: 5180 - 5240 MHz         U-NII-22: 5500 - 5720 MHz  | LTE Band 5 (Cell)  | Voice/Data      | 824.7 - 848.3 MHz         |
| LTE Band 25 (PCS)         Voice/Data         1850.7 - 1914.3 MHz           LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         1852.5 - 1907.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-26: 5260 - 5320 MHz           U-NII-26: 5500 - 5  | LTE Band 66 (AWS)  | Voice/Data      | 1710.7 - 1779.3 MHz       |
| LTE Band 2 (PCS)         Voice/Data         1850.7 - 1909.3 MHz           LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n7         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2A: 5260 - 5320 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz  | LTE Band 4 (AWS)   | Voice/Data      | 1710.7 - 1754.3 MHz       |
| LTE Band 7         Voice/Data         2502.5 - 2567.5 MHz           LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NTN Band 254         Data         1610.2 - 1626 MHz           V-NII-1: 5180 - 5240 MHz         U-NII-2C: 5500 - 5720 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-2C: 5500 - 5720 MHz           U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | LTE Band 25 (PCS)  | Voice/Data      | 1850.7 - 1914.3 MHz       |
| LTE Band 41         Voice/Data         2498.5 - 2687.5 MHz           LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NTN Band 254         Data         1610.2 - 1626 MHz           NTN Band 254         Data         1610.2 - 1626 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2C: 5500 - 5720 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | LTE Band 2 (PCS)   | Voice/Data      | 1850.7 - 1909.3 MHz       |
| LTE Band 53         Voice/Data         2488.5 - 2490 MHz           NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n66 (AWS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n2 (PCS)         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2A: 5260 - 5320 MHz         U-NII-2C: 5500 - 5720 MHz           U-NII-3: 5745 - 5825 MHz         U-NII-3: 5745 - 5825 MHz   | LTE Band 7         | Voice/Data      | 2502.5 - 2567.5 MHz       |
| NR Band n71         Voice/Data         665.5 - 695.5 MHz           NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | LTE Band 41        | Voice/Data      | 2498.5 - 2687.5 MHz       |
| NR Band n12         Voice/Data         701.5 - 713.5 MHz           NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz  | LTE Band 53        | Voice/Data      | 2488.5 - 2490 MHz         |
| NR Band n14         Voice/Data         790.5 - 795.5 MHz           NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n71        | Voice/Data      | 665.5 - 695.5 MHz         |
| NR Band n26 (Cell)         Voice/Data         816.5 - 846.5 MHz           NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         2502.5 - 2567.5 MHz           NR Band n7         Voice/Data         2501.01 - 2685.0 MHz           NR Band n41         Voice/Data         2488.5 - 2490MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n12        | Voice/Data      | 701.5 - 713.5 MHz         |
| NR Band n5 (Cell)         Voice/Data         826.5 - 846.5 MHz           NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz  | NR Band n14        | Voice/Data      | 790.5 - 795.5 MHz         |
| NR Band n66 (AWS)         Voice/Data         1712.5 - 1777.5 MHz           NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n26 (Cell) | Voice/Data      | 816.5 - 846.5 MHz         |
| NR Band n25 (PCS)         Voice/Data         1852.5 - 1912.5 MHz           NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz  | NR Band n5 (Cell)  | Voice/Data      | 826.5 - 846.5 MHz         |
| NR Band n2 (PCS)         Voice/Data         1852.5 - 1907.5 MHz           NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n66 (AWS)  | Voice/Data      | 1712.5 - 1777.5 MHz       |
| NR Band n7         Voice/Data         2502.5 - 2567.5 MHz           NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n25 (PCS)  | Voice/Data      | 1852.5 - 1912.5 MHz       |
| NR Band n41         Voice/Data         2501.01 - 2685.0 MHz           NR Band n53         Voice/Data         2488.5 - 2490MHz           NTN Band 254         Data         1610.2 - 1626 MHz           2.4 GHz WLAN         Voice/Data         2412 - 2472 MHz           U-NII-1: 5180 - 5240 MHz         U-NII-2A: 5260 - 5320 MHz           U-NII-2C: 5500 - 5720 MHz         U-NII-3: 5745 - 5825 MHz           Bluetooth         Data         2402 - 2480 MHz   | NR Band n2 (PCS)   | Voice/Data      | 1852.5 - 1907.5 MHz       |
| NR Band n53  | NR Band n7         | Voice/Data      | 2502.5 - 2567.5 MHz       |
| NTN Band 254 Data 1610.2 - 1626 MHz 2.4 GHz WLAN Voice/Data 2412 - 2472 MHz  U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz  | NR Band n41        | Voice/Data      | 2501.01 - 2685.0 MHz      |
| 2.4 GHz WLAN Voice/Data 2412 - 2472 MHz  U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz  | NR Band n53        | Voice/Data      | 2488.5 - 2490MHz          |
| U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz   | NTN Band 254       | Data            | 1610.2 - 1626 MHz         |
| 5 GHz WIFI Voice/Data U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz  | 2.4 GHz WLAN       | Voice/Data      | 2412 - 2472 MHz           |
| U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz  |                    |                 | U-NII-1: 5180 - 5240 MHz  |
| U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz Bluetooth Data 2402 - 2480 MHz  | E CH- W/IEI        | Vaine/Data      | U-NII-2A: 5260 - 5320 MHz |
| Bluetooth Data 2402 - 2480 MHz   | 5 GHZ WIFI         | Voice/Data      | U-NII-2C: 5500 - 5720 MHz |
|  |                    |                 | U-NII-3: 5745 - 5825 MHz  |
| 802.15.4 ab-NB Data 5728.75 - 5846.25 MHz  | Bluetooth          | Data            | 2402 - 2480 MHz           |
|  | 802.15.4 ab-NB     | Data            | 5728.75 - 5846.25 MHz     |
| NFC Data 13.56 MHz   | NFC                | Data            | 13.56 MHz                 |
| UWB Data 6489.6 - 7987.2 MHz   | UWB                | Data            | 6489.6 - 7987.2 MHz       |

This device uses the MediaTek's Time-averaged SAR algorithm feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement for 4G/5G operations. Additionally, this device supports WLAN/BT/NTN/NFC/802.15.4 AB-NB technologies, but the output power of these modems is not controlled by the time-averaged SAR algorithm.

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# 4 COMPLIANCE SUMMARY

# 4.1 RF Exposure Compliance Summary

All transmission scenarios that the DUT supports comply with FCC time-averaged RF exposure requirements, as shown in Table 4-1.

Table 4-1
Reported RF Exposure Levels

|               | RFx Evaluation             | Power Level        | FCC Limit | Reported<br>RF Exposure<br>Level | Test Report                              |
|---------------|----------------------------|--------------------|-----------|----------------------------------|--|
| SAR<br>(W/kg) | Standalone<br>1g SAR       | P <sub>limit</sub> | 1.6       | 1.16                             | FCC SAR<br>Evaluation Report<br>(Part 1) |
|               | Standalone<br>10g SAR      | P <sub>limit</sub> | 4.0       | 0.81                             |  |
|               | Simultaneous Tx<br>1g SAR  | P <sub>limit</sub> | 1.6       | 1.34                             |  |
|               | Simultaneous Tx<br>10g SAR | P <sub>limit</sub> | 4.0       | 0.89                             |  |

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