



## RF EXPOSURE EVALUATION

### Maximum Permissible Exposure [MPE]

**Applicant Name:**

Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014  
United States

**Date of Testing:**

6/5/2025- 07/21/2025

**Test Report Issue:**

7/31/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2503270029-18.BCG

**FCC ID:** BCG-A3281

**IC:** 579C-A3281

**APPLICANT:** Apple Inc.

**Application Type:**

Certification

**Model/HVIN:**

A3281, A3282

**EUT Type:**

Watch

**FCC Rule Part:**

FCC Part 1 (§1.1310) and Part 2 (§2.1091)

**ISED Specification:**

RSS-102 Issue 6

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC KDB 447498 D01 v06. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez  
Executive Vice President



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## 1.0 RF EXPOSURE EVALUATION – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 1.1 Introduction


This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules and Regulations and RSS-102 of Industry Canada.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310 is listed in Table 1-1, and specified in RSS-102 is listed in Table 1-2. According to FCC §1.1310 and RSS-102: the criteria listed in the following tables shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b).

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
(i) 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
1500-100,000			5	<6
(ii) 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
1500-100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent density

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

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Frequency Range (MHz)	Electric Field Strength ( $V_{RMS}/m$ )	Magnetic Field Strength ( $A_{RMS}/m$ )	Power Density ( $W/m^2$ )	Reference Period (minutes)
(A) RF field strength and power density limits for controlled-use devices (controlled environment) (f = frequency in MHz)				
10-20	61.4	0.163	10	6
20-48	$129.8/f^{0.25}$	$0.3444/f^{0.25}$	$44.72/f^{0.5}$	6
48-100	49.33	0.1309	6.455	6
100-6000	$15.60 f^{0.25}$	$0.04138 f^{0.25}$	$0.6455 f^{0.5}$	6
6000-15000	137	0.364	50	6
15000-150000	137	0.364	50	$616000/f^{1.2}$
150000-300000	$0.354 f^{0.5}$	$9.40 \times 10^{-4} f^{0.5}$	$3.33 \times 10^{-4} f$	$616000/f^{1.2}$
(B) RF field strength and power density limits for devices used by the general public (uncontrolled environment) (f = frequency in MHz)				
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$


**Table 1-2. ISED Limits for Maximum Permissible Exposure (MPE)**

## 1.2 EUT Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A3281 and IC: 579C-A3281**. The device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, 802.11a/n UNII, 802.15.4 ab-NB, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter, Mobile Satellite Service (MSS) technologies

EUT consists of an Apple Watch handheld device containing a 60.5GHz unlicensed/license-exempt data communications transmitter module. A proprietary Wireless Serial Dock with a corresponding 60.5GHz module is needed to activate transmission on the Apple Watch. A magnetic alignment fixture locks the Apple Watch in place on top of the Wireless Serial Dock, thus allowing communication between the Dock and Apple Watch. The Wireless Serial Dock is powered by a USB-C port.

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### 1.3 MPE Requirements Overview

Three different categories of transmitters are defined by the FCC KDB 447498 D01 v06. These categories are fixed installation, mobile, and portable and are defined as follows:

- **Fixed Installations:** fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters.
- **Mobile Devices:** a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located, such as a wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR §2.1091.
- **Portable Devices:** a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR§2.1093).

The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/ Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows:

- **Occupational/Controlled Exposure:** In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to minimize such exposure risks.
- **General Population/Uncontrolled Exposure:** The general population / uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

The **Apple Watch FCC ID: BCG-A3281 and IC: 579C-A3281** is evaluated to the General Population/Uncontrolled Exposure requirements.

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## 1.4 Procedure

The procedure used to determine the RF power density was based upon a calculation for determining compliance with the MPE requirements.

The power generated by the 60.5GHz transmitter used in this product was initially calculated using radiated measurement techniques as outlined in the RF Part 15.255 report (1C2503270029-17.BCG). Through use of the Friis transmission formula and knowledge of the maximum antenna gain to be used, the power density level is calculated at a distance of 20cm.

All different frequencies per technology have been investigated and only the worst power density ratios have been reported.

### Friis Transmission Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4\pi r^2)$

Where,

$P_d$  = Power Density (mW/cm<sup>2</sup>)

$\pi$  = 3.1416

$P_{out}$  = output power to antenna (mW)

$r$  = distance between observation point and center of the radiator (cm)


$G$  = gain of antenna in linear scale

### Calculated MPE

The power density limit for General Population/Uncontrolled Exposure at each frequency is determined based on the information in Table 1-1.

	FCC		ISED	
Frequency	2442	MHz	2442	MHz
Limit	1.000	mW/cm <sup>2</sup>	5.412	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	22.31	dBm	22.31	dBm
Power (mW), P =	170.216	mW	0.170	W
Tx Ant Gain (dBi), G =	-2.8	dBi	-2.8	dBi
Power Density (S) at 20cm =	0.01777	mW/cm <sup>2</sup>	0.17772	W/m <sup>2</sup>
Minimum Distance =	2.66621	cm	0.03624	m

Table 1-3. Calculated MPE for WLAN

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	FCC		ISED	
Frequency	2441	MHz	2441	MHz
Limit	1.000	mW/cm <sup>2</sup>	5.410	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	17.52	dBm	17.52	dBm
Power (mW), P =	56.494	mW	0.056	W
Tx Ant Gain (dBi), G =	-2.8	dBi	-2.8	dBi
Power Density (S) at 20cm =	0.00590	mW/cm <sup>2</sup>	0.05898	W/m <sup>2</sup>
Minimum Distance =	1.53601	cm	0.02088	m


Table 1-4. Calculated MPE for Bluetooth

	FCC		ISED	
Frequency	2476	MHz	2476	MHz
Limit	1.000	mW/cm <sup>2</sup>	5.463	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	15.14	dBm	15.14	dBm
Power (mW), P =	32.659	mW	0.033	W
Tx Ant Gain (dBi), G =	-2.8	dBi	-2.8	dBi
Power Density (S) at 20cm =	0.00341	mW/cm <sup>2</sup>	0.03410	W/m <sup>2</sup>
Minimum Distance =	1.16787	cm	0.01580	m

Table 1-5. Calculated MPE for Bluetooth HDR

	FCC		ISED	
Frequency	2440	MHz	2440	MHz
Limit	1.000	mW/cm <sup>2</sup>	5.409	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	17.53	dBm	17.53	dBm
Power (mW), P =	56.624	mW	0.057	W
Tx Ant Gain (dBi), G =	-2.8	dBi	-2.8	dBi
Power Density (S) at 20cm =	0.00591	mW/cm <sup>2</sup>	0.05912	W/m <sup>2</sup>
Minimum Distance =	1.53778	cm	0.02091	m

Table 1-6. Calculated MPE for Bluetooth LE

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	FCC		ISED	
Frequency	5580	MHz	5580	MHz
Limit	1.000	mW/cm <sup>2</sup>	9.519	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	17.00	dBm	17.00	dBm
Power (mW), P =	50.119	mW	0.050	W
Tx Ant Gain (dBi), G =	-8.1	dBi	-8.1	dBi
Power Density (S) at 20cm =	0.00154	mW/cm <sup>2</sup>	0.01544	W/m <sup>2</sup>
Minimum Distance =	0.78595	cm	0.00806	m


Table 1-7. Calculated MPE for UNII

	FCC		ISED	
Frequency	5728.8	MHz	5728.8	MHz
Limit	1.000	mW/cm <sup>2</sup>	9.692	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	15.99	dBm	15.99	dBm
Power (mW), P =	39.719	mW	0.040	W
Tx Ant Gain (dBi), G =	-9.0	dBi	-9.0	dBi
Power Density (S) at 20cm =	0.00099	mW/cm <sup>2</sup>	0.00995	W/m <sup>2</sup>
Minimum Distance =	0.63080	cm	0.00641	m

Table 1-8. Calculated MPE for 802.15.4 ab-NB

	FCC		ISED	
Frequency	8000.0	MHz	8000.0	MHz
Limit	1.000	mW/cm <sup>2</sup>	10.000	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm EIRP), P =	-5.19	dBm	-5.19	dBm
Power (mW EIRP), P =	0.303	mW	0.00030	W
Power Density (S) at 20cm =	0.00006	mW/cm <sup>2</sup>	0.00060	W/m <sup>2</sup>
Minimum Distance =	0.15520	cm	0.00155	m

Table 1-9. Calculated MPE for UWB

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	FCC		ISED	
Frequency	60500.0	MHz	60500.0	MHz
Limit	1.000	mW/cm <sup>2</sup>	10.000	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	-4.56	dBm	-4.56	dBm
Power (mW), P =	0.350	mW	0.00035	W
Tx Ant Gain (dBi), G =	4.0	dBi	4.0	dBi
Power Density (S) at 20cm =	0.00017	mW/cm <sup>2</sup>	0.00175	W/m <sup>2</sup>
Minimum Distance =	0.26448	cm	0.00264	m

Table 1-10. Calculated MPE for 60.5GHz

	FCC		ISED	
Frequency	829.0	MHz	829.0	MHz
Limit	0.553	mW/cm <sup>2</sup>	2.586	W/m <sup>2</sup>
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	25.70	dBm	25.70	dBm
Power (mW), P =	371.535	mW	0.372	W
Tx Ant Gain (dBi), G =	-26.0	dBi	-26.0	dBi
Power Density (S) at 20cm =	0.00019	mW/cm <sup>2</sup>	0.00186	W/m <sup>2</sup>
Minimum Distance =	0.36658	cm	0.00536	m

Table 1-11. Calculated MPE for FR1 Low Band - n26

	FCC		ISED	
Frequency	1618.0	MHz	1618.0	MHz
Limit	1.000	mW/cm <sup>2</sup>	4.085	W/m <sup>2</sup>
Limit Distance (cm), R =	20.000	cm	0.200	m
Power (dBm), P =	27.09	dBm	27.09	dBm
Power (mW), P =	511.682	mW	0.512	W
Tx Ant Gain (dBi), G =	-9.40	dBi	-9.40	dBi
Power Density (S) at 20cm =	0.01169	mW/cm <sup>2</sup>	0.11688	W/m <sup>2</sup>
Minimum Distance =	2.16219	cm	0.03383	m

Table 1-12. Calculated MPE for MSS Mid Band – L Band


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	FCC		ISED	
<b>Frequency</b>	2680.0	MHz	2680.0	MHz
<b>Limit</b>	1.000	mW/cm <sup>2</sup>	5.767	W/m <sup>2</sup>
<b>Limit Distance (cm), R =</b>	20.00	cm	0.20	m
<b>Power (dBm), P =</b>	25.20	dBm	25.20	dBm
<b>Power (mW), P =</b>	331.131	mW	0.331	W
<b>Tx Ant Gain (dBi), G =</b>	-1.92	dBi	-1.92	dBi
<b>Power Density (S) at 20cm =</b>	0.04234	mW/cm <sup>2</sup>	0.42338	W/m <sup>2</sup>
<b>Minimum Distance =</b>	4.11523	cm	0.05419	m

**Table 1-13. Calculated MPE for LTE High Band – B41**

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## 1.5 Summary of Results

	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Percent MPE Used (%)
Transmitter #1 WLAN	0.01777	1.00000	1.77717
Transmitter #2 Bluetooth	0.00590	1.00000	0.58983
Transmitter #3 Bluetooth HDR	0.00341	1.00000	0.34098
Transmitter #4 Bluetooth LE	0.00591	1.00000	0.59119
Transmitter #5 UNII	0.00154	1.00000	0.15443
Transmitter #6 802.15.4 ab-NB	0.00099	1.00000	0.09948
Transmitter #7 UWB	0.00006	1.00000	0.00602
Transmitter #8 60.5GHz	0.00017	1.00000	0.01749
Transmitter #9 FR1 - Low Band	0.00019	0.55267	0.03359
Transmitter #10 MSS Mid L-Band	0.01169	1.00000	1.16877
Transmitter #11 LTE - High Band	0.04234	1.00000	4.23379
Total			9.01275

Table 1-14. FCC Cumulative Results for Multiple Transmitters


FCC ID: BCG-A3281 IC: 579C-A3281		MAXIMUM PERMISSIBLE EXPOSURE REPORT	Approved by: Technical Manager
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	Power Density (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Percent MPE Used (%)
Transmitter #1 WLAN	0.17772	5.41154	3.28404
Transmitter #2 Bluetooth	0.05898	5.41003	1.09026
Transmitter #3 Bluetooth HDR	0.03410	5.46292	0.62417
Transmitter #4 Bluetooth LE	0.05912	5.40851	1.09308
Transmitter #5 UNII	0.01544	9.51887	0.16223
Transmitter #6 802.15.4 ab-NB	0.00995	9.69156	0.10264
Transmitter #7 UWB	0.00060	10.00000	0.00602
Transmitter #8 60.5GHz	0.00175	10.00000	0.01749
Transmitter #9 FR1 - Low Band	0.00186	2.58628	0.07179
Transmitter #10 MSS Mid L-Band	0.11688	4.08462	2.86139
Transmitter #11 LTE - High Band	0.42338	5.76664	7.34186
Total			16.65498

**Table 1-15. ISED Cumulative Results for Multiple Transmitters**


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## 2.0 CONCLUSION

The device's 60.5GHz transmitter meets the mobile RF exposure limit at a 20cm separation distance as specified in §2.1091 of the FCC Rules and Regulations and Health Canada Safety Code 6. An appropriate RF exposure compliance statement will be placed in the user's manual.

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