



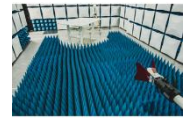
Element Materials Technology

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RF EXPOSURE EVALUATION Maximal Permissible Exposure [MPE]

Applicant Name:

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

Date of Testing:

4/11/2024 - 8/2/2024

Test Report Issue:

8/8/2024

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2405230021-18.BCG

FCC ID: BCG-A3001

IC: 579C-A3001

APPLICANT: Apple Inc.

Application Type:

Certification

Model/HVIN:

A3001, A3002

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. 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

Prepared by: WKR0000014197

Reviewed by: WKR0000005849



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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 ²)	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 ²)	<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 ²)	<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-A3001 and IC: 579C-A3001**. The device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 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

EUT consists of a 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. 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-A3001 and IC: 579C-A3001** 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 (1C2405230021-17.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/cm²)

π = 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	2412	MHz	2412	MHz
Limit	1.000	mW/cm ²	5.366	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	23.40	dBm	23.40	dBm
Power (mW), P =	218.776	mW	0.219	W
Tx Ant Gain (dBi), G =	-7.9	dBi	-7.9	dBi
Power Density (S) at 20cm =	0.00706	mW/cm ²	0.07059	W/m ²
Minimum Distance =	1.68033	cm	0.02294	m

Table 1-3. Calculated MPE for WLAN

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	FCC		ISED	
Frequency	2441	MHz	2441	MHz
Limit	1.000	mW/cm ²	5.410	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	17.45	dBm	17.45	dBm
Power (mW), P =	55.590	mW	0.056	W
Tx Ant Gain (dBi), G =	-7.9	dBi	-7.9	dBi
Power Density (S) at 20cm =	0.00179	mW/cm ²	0.01794	W/m ²
Minimum Distance =	0.84702	cm	0.01152	m

Table 1-4. Calculated MPE for Bluetooth

	FCC		ISED	
Frequency	2476	MHz	2476	MHz
Limit	1.000	mW/cm ²	5.463	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	15.92	dBm	15.92	dBm
Power (mW), P =	39.084	mW	0.039	W
Tx Ant Gain (dBi), G =	-7.9	dBi	-7.9	dBi
Power Density (S) at 20cm =	0.00126	mW/cm ²	0.01261	W/m ²
Minimum Distance =	0.71022	cm	0.00961	m

Table 1-5. Calculated MPE for Bluetooth HDR

	FCC		ISED	
Frequency	2402	MHz	2402	MHz
Limit	1.000	mW/cm ²	5.351	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	17.55	dBm	17.55	dBm
Power (mW), P =	56.885	mW	0.057	W
Tx Ant Gain (dBi), G =	-7.9	dBi	-7.9	dBi
Power Density (S) at 20cm =	0.00184	mW/cm ²	0.01835	W/m ²
Minimum Distance =	0.85683	cm	0.01171	m

Table 1-6. Calculated MPE for Bluetooth LE

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	FCC		ISED	
Frequency	5720	MHz	5720	MHz
Limit	1.000	mW/cm ²	9.681	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	16.98	dBm	16.98	dBm
Power (mW), P =	49.888	mW	0.050	W
Tx Ant Gain (dBi), G =	-3.8	dBi	-3.8	dBi
Power Density (S) at 20cm =	0.00414	mW/cm ²	0.04137	W/m ²
Minimum Distance =	1.28645	cm	0.01307	m

Table 1-7. Calculated MPE for UNII

	FCC		ISED	
Frequency	8000	MHz	8000	MHz
Limit	1.000	mW/cm ²	10.000	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm EIRP), P =	-11.82	dBm	-11.82	dBm
Power (mW EIRP), P =	0.066	mW	0.000	W
Power Density (S) at 20cm =	0.00001	mW/cm ²	0.00013	W/m ²
Minimum Distance =	0.07234	cm	0.00072	m

Table 1-8. Calculated MPE for UWB

	FCC		ISED	
Frequency	60500	MHz	60500	MHz
Limit	1.000	mW/cm ²	10.000	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	1.58	dBm	1.58	dBm
Power (mW), P =	1.439	mW	0.001	W
Tx Ant Gain (dBi), G =	-1.9	dBi	-1.9	dBi
Power Density (S) at 20cm =	0.00018	mW/cm ²	0.00185	W/m ²
Minimum Distance =	0.27189	cm	0.00272	m

Table 1-9. Calculated MPE for 60.5GHz

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	FCC		ISED	
Frequency	5846.25	MHz	5846.25	MHz
Limit	1.000	mW/cm ²	9.827	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	15.98	dBm	15.98	dBm
Power (mW), P =	39.628	mW	0.040	W
Tx Ant Gain (dBi), G =	-3.7	dBi	-3.7	dBi
Power Density (S) at 20cm =	0.00336	mW/cm ²	0.03363	W/m ²
Minimum Distance =	1.15983	cm	0.01170	m

Table 1-10. Calculated MPE for 802.15.4 ab-NB

	FCC		ISED	
Frequency	821.5	MHz	821.5	MHz
Limit	0.548	mW/cm ²	2.570	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	25.40	dBm	25.40	dBm
Power (mW), P =	346.737	mW	0.347	W
Tx Ant Gain (dBi), G =	-27.5	dBi	-27.5	dBi
Power Density (S) at 20cm =	0.00012	mW/cm ²	0.00123	W/m ²
Minimum Distance =	0.29932	cm	0.00437	m

Table 1-11. Calculated MPE for LTE Low Band - B26

	FCC		ISED	
Frequency	1857.5	MHz	1857.5	MHz
Limit	1.000	mW/cm ²	4.489	W/m ²
Limit Distance (cm), R =	20.000	cm	0.200	m
Power (dBm), P =	24.44	dBm	24.44	dBm
Power (mW), P =	277.971	mW	0.278	W
Tx Ant Gain (dBi), G =	-13.1	dBi	-13.1	dBi
Power Density (S) at 20cm =	0.00271	mW/cm ²	0.02709	W/m ²
Minimum Distance =	1.04087	cm	0.01554	m

Table 1-12. Calculated MPE for LTE Mid Band – B2

FCC ID: BCG-A3001 IC: 579C-A3001	 MAXIMUM PERMISSIBLE EXPOSURE REPORT		Approved by: Technical Manager
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	FCC		ISED	
Frequency	2685	MHz	2685	MHz
Limit	1.000	mW/cm ²	5.774	W/m ²
Limit Distance (cm), R =	20.00	cm	0.20	m
Power (dBm), P =	24.00	dBm	24.00	dBm
Power (mW), P =	251.189	mW	0.251	W
Tx Ant Gain (dBi), G =	-8.6	dBi	-8.6	dBi
Power Density (S) at 20cm =	0.00690	mW/cm ²	0.06898	W/m ²
Minimum Distance =	1.66110	cm	0.02186	m

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

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1.5 Summary of Results

	Power Density (mW/cm ²)	Limit (mW/cm ²)	Percent MPE Used (%)
Transmitter #1 WLAN	0.00706	1.00000	0.70600
Transmitter #2 Bluetooth	0.00179	1.00000	0.17900
Transmitter #3 Bluetooth HDR	0.00126	1.00000	0.12600
Transmitter #4 Bluetooth LE	0.00184	1.00000	0.18400
Transmitter #5 UNII	0.00414	1.00000	0.41400
Transmitter #6 UWB	0.00001	1.00000	0.00100
Transmitter #7 60.5GHz	0.00018	1.00000	0.01800
Transmitter #8 802.15.4 ab-NB	0.00336	1.00000	0.33600
Transmitter #9 LTE - Low Band	0.00012	0.54767	0.02191
Transmitter #10 LTE - Mid Band	0.00271	1.00000	0.27100
Transmitter #11 LTE - High Band	0.00690	1.00000	0.69000
Total			2.94691

Table 1-14. FCC Cumulative Results for Multiple Transmitters

FCC ID: BCG-A3001 IC: 579C-A3001		MAXIMUM PERMISSIBLE EXPOSURE REPORT	Approved by: Technical Manager
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	Power Density (W/m ²)	Limit (W/m ²)	Percent MPE Used (%)
Transmitter #1 WLAN	0.07059	5.36602	1.31550
Transmitter #2 Bluetooth	0.01794	5.41003	0.33161
Transmitter #3 Bluetooth HDR	0.01261	5.46292	0.23083
Transmitter #4 Bluetooth LE	0.01835	5.35080	0.34294
Transmitter #5 UNII	0.04137	9.68144	0.42731
Transmitter #6 UWB	0.00013	10.00000	0.00130
Transmitter #7 60.5GHz	0.00185	10.00000	0.01850
Transmitter #8 802.15.4 ab-NB	0.03363	9.82697	0.34222
Transmitter #9 LTE - Low Band	0.00123	2.57027	0.04785
Transmitter #10 LTE - Mid Band	0.02709	4.48871	0.60351
Transmitter #11 LTE - High Band	0.06898	5.77399	1.19467
Total			4.85625

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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