

Project No.: TM-2601000305P
Report No.: TMWK2601000344KS

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RF Exposure Evaluation Report

FCC 47 CFR § 2.1091

for
COREXOM

Model Name.: I9074L

Prepared for:

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
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1 Attestation of Test Results

Applicant Name	Coretronic Reality Inc.
Model Name	I9074L
Applicable Standards	FCC 47 CFR § 2.1091 FCC 47 CFR § 1.1310 Published RF exposure KDB procedures
Receive EUT Date:	January 19, 2026
Date of Test:	March 12, 2026
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.	
Approved & Released By: 	Tested by: 
Sky Zhou Asst. Section Manager Compliance Certification Services Inc.	KW Huang Engineer Compliance Certification Services Inc.



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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	COREXOM
Trade Name	Coretronic Reality Inc.
Model No.	I9074L
Model Discrepancy	N/A
Hardware Version	MP
Software Version	2.0.0
Sample Stage	Identical prototype

3.2 Wireless Technologies

Frequency bands	☐ Bluetooth: 2402MHz-2480MHz ☒ 802.11b/g/n HT20/ax HE20: 2412MHz ~ 2462 MHz ☒ 802.11n HT40/ax HE40: 2422MHz ~ 2452 MHz ☒ 802.11a/n HT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz ☒ 802.11n HT40: 5190 MHz ~ 5230 MHz / 5755 MHz ~ 5795MHz ☒ 802.11ac VHT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz ☒ 802.11ac VHT40: 5190 MHz ~ 5230 MHz / 5755 MHz ~ 5795MHz ☐ 802.11ac VHT80: 5210 MHz / 5290 MHz / 5530 MHz / 5775 MHz ☒ 802.11ax HE20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz ☒ 802.11ax HE40: 5190 MHz ~ 5230 MHz / 5755 MHz ~ 5795MHz ☐ 802.11ax HE80: 5210 MHz / 5290 MHz / 5530 MHz / 5775 MHz ☐ Others:
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure

Antenna Specification	Antenna-1				
	Type: Dipole Antenna				
	WIFI 2.4GHz & WIFI 5GHz: 5 dBi ±0.5 dBi				
	Antenna-2				
	Type: PCB Antenna				
	WIFI 2.4GHz & WIFI 5GHz: 2 dBi				
	2.4GHz:	Gain :	5.50 dBi	(Numeric gain:	3.55) Worst
	Directional Gain:		8.51 dBi	(Numeric gain:	7.10) Worst
5GHz:					
Band 1	Gain :	5.50 dBi	(Numeric gain:	3.55) Worst	
Band 4	Gain :	5.50 dBi	(Numeric gain:	3.55) Worst	
Directional Gain:		8.51 dBi	(Numeric gain:	7.10) Worst	
Maximum tune up power	WIFI 2.4GHz				
	IEEE 802.11b (Multiple)		26.00 dBm	(398.11 mW)	
	IEEE 802.11g (Multiple)		23.00 dBm	(199.53 mW)	
	IEEE 802.11n HT 20 (MIMO)		22.00 dBm	(158.49 mW)	
	IEEE 802.11n HT 40 (MIMO)		18.50 dBm	(70.79 mW)	
	IEEE 802.11ax HE 20 (MIMO)		22.50 dBm	(177.83 mW)	
	IEEE 802.11ax HE 40 (MIMO)		18.50 dBm	(70.79 mW)	
	WIFI 5GHz (Band 1)				
	IEEE 802.11a (Multiple)		25.50 dBm	(354.81 mW)	
	IEEE 802.11n HT 20 (MIMO)		24.50 dBm	(281.84 mW)	
	IEEE 802.11n HT 40 (MIMO)		22.50 dBm	(177.83 mW)	
	IEEE 802.11ac VHT 20 (MIMO)		24.50 dBm	(281.84 mW)	
	IEEE 802.11ac VHT 40 (MIMO)		22.00 dBm	(158.49 mW)	
	IEEE 802.11ax HE 20 (MIMO)		25.50 dBm	(354.81 mW)	
	IEEE 802.11ax HE 40 (MIMO)		22.50 dBm	(177.83 mW)	
	WIFI 5GHz (Band 4)				
	IEEE 802.11a (Multiple)		27.00 dBm	(501.19 mW)	
	IEEE 802.11n HT 20 (MIMO)		27.50 dBm	(562.34 mW)	
	IEEE 802.11n HT 40 (MIMO)		24.50 dBm	(281.84 mW)	
	IEEE 802.11ac VHT 20 (MIMO)		27.00 dBm	(501.19 mW)	
	IEEE 802.11ac VHT 40 (MIMO)		24.50 dBm	(281.84 mW)	
	IEEE 802.11ax HE 20 (MIMO)		28.00 dBm	(630.96 mW)	
IEEE 802.11ax HE 40 (MIMO)		25.50 dBm	(354.81 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 TMWK2601000342KR and TMWK2601000343KR for RF Exposure assessment purpose.



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4 Measurement Uncertainty

WIFI 2.4G

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.37dB
Channel Bandwidth	± 2.85dB
RF output power (Spectrum)	± 2.74dB
RF output power (Power Meter + Power sensor)	± 0.27dB
Power Spectral density	± 2.74dB
Conducted Bandedge	± 2.74dB
Conducted Spurious Emission	± 2.74dB
Radiated Emission_9kHz-30MHz	± 2.750 dB
Radiated Emission_30MHz-200MHz	± 3.874 dB
Radiated Emission_200MHz-1GHz	± 4.065 dB
Radiated Emission_1GHz-6GHz	± 5.594 dB
Radiated Emission_6GHz-18GHz	± 5.556 dB
Radiated Emission_18GHz-26GHz	± 3.165 dB
Radiated Emission_26GHz-40GHz	± 3.216 dB

WIFI 5G

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.37dB
Channel Bandwidth	± 2.85dB
RF output power (Spectrum)	± 2.74dB
RF output power (Power Meter + Power sensor)	± 0.27dB
Power Spectral density	± 2.74dB
Radiated Emission_9kHz-30MHz	± 2.750 dB
Radiated Emission_30MHz-200MHz	± 3.874 dB
Radiated Emission_200MHz-1GHz	± 4.065 dB
Radiated Emission_1GHz-6GHz	± 5.594 dB
Radiated Emission_6GHz-18GHz	± 5.556 dB
Radiated Emission_18GHz-26GHz	± 3.165 dB
Radiated Emission_26GHz-40GHz	± 3.216 dB

5 Maximum Permissible Exposure

5.1 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 ²)	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 ²	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 ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
<u>1,500-100,000</u>			1.0	30

5.2 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 / cm²

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

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

5.3 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 λ 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.	

5.4 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),

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

6 MPE Exemption Option B

WIFI 2.4GHz (DTS)

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 802.11b (Multiple)	2412	0.2	26.0	8.51	34.51	32.36	1721.869	3060	Complies
IEEE 802.11g (Multiple)	2412	0.2	23.0	8.51	31.51	29.36	862.979	3060	Complies
IEEE 802.11n HT 20 (MIMO)	2417	0.2	22.0	8.51	30.51	28.36	685.488	3060	Complies
IEEE 802.11n HT 40 (MIMO)	2422	0.2	18.5	8.51	27.01	24.86	306.196	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	2417	0.2	22.5	8.51	31.01	28.86	769.130	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	2422	0.2	18.5	8.51	27.01	24.86	306.196	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 (Multiple)	5240	0.2	25.5	8.51	34.01	31.86	1534.617	3060	Complies
IEEE 802.11n HT 20 (MIMO)	5240	0.2	24.5	8.51	33.01	30.86	1218.990	3060	Complies
IEEE 802.11n HT 40 (MIMO)	5230	0.2	22.5	8.51	31.01	28.86	769.130	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	5240	0.2	24.5	8.51	33.01	30.86	1218.990	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	5230	0.2	22.0	8.51	30.51	28.36	685.488	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	5240	0.2	25.5	8.51	34.01	31.86	1534.617	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	5230	0.2	22.5	8.51	31.01	28.86	769.130	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 (Multiple)	5745	0.2	27.0	8.51	35.51	33.36	2167.704	3060	Complies
IEEE 802.11n HT 20 (MIMO)	5745	0.2	27.5	8.51	36.01	33.86	2432.204	3060	Complies
IEEE 802.11n HT 40 (MIMO)	5755	0.2	24.5	8.51	33.01	30.86	1218.990	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	5745	0.2	27.0	8.51	35.51	33.36	2167.704	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	5755	0.2	24.5	8.51	33.01	30.86	1218.990	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	5745	0.2	28.0	8.51	36.51	34.36	2728.978	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	5755	0.2	25.5	8.51	34.01	31.86	1534.617	3060	Complies



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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.

END OF REPORT