MPE TEST REPORT

Applicant	Clourney Semiconductor Corp.
FCC ID	2BTZL-CS8862A
Product	Access Point
Brand	Clourney Semiconductor
Model	CS8862A
Report No.	EFTA25110280-IE-03-M1
Issue Date	February 5, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 §1.1310, §2.1091.** The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

Prepared by: Wei Fangying *Approved by: Xu Kai*

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
TEL: +86-021-50791141/2/3
FAX: +86-021-50791141/2/3-8000

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1 Test Laboratory

1.1 Notes of the Test Report

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1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	https://www.eurofins.com/electrical-and-electronics
E-mail:	Kain.Xu@cpt.eurofinscn.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

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2 Description of Equipment Under Test

Client Information

Applicant	Clourney Semiconductor Corp.
Applicant address	19 Bailongjiang East Street, Jianye District Nanjing JiangSu China
Manufacturer	Clourney Semiconductor Corp.
Manufacturer address	19 Bailongjiang East Street, Jianye District Nanjing JiangSu China

General Technologies

EUT Description			
Model	CS8862A		
Lab Internal SN	251120-19-002		
Hardware Version	D2K_RDK V24		
Software Version	openwrt-clsemi-cs8862a-cs8862a-rdk-squashfs-sysupgrade-V6.0.1.67		
Frequency	Band	TX (MHz)	RX (MHz)
	Wi-Fi 2.4G	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5GHz (U-NII-1)	5150 ~ 5250	5150 ~ 5250
	Wi-Fi 5GHz (U-NII-2A)	5250 ~ 5350	5250 ~ 5350
	Wi-Fi 5GHz (U-NII-2C)	5470 ~ 5600 5650 ~ 5725	5470 ~ 5600 5650 ~ 5725
	Wi-Fi 5GHz (U-NII-3)	5725~5850	5725~5850
	Bluetooth	2400 ~ 2483.5	2400 ~ 2483.5
Date of Testing	December 3, 2025 ~ January 10,2026		
Date of Sample Received	November 20,2025		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

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3 Maximum Tune up and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by
Numeric gain (G)=10^(antenna gain/10)

Band	Maximum Tune up Tolerance		Antenna Gain (dBi)	Numeric Gain
	(dBm)	(mW)		
Wi-Fi 2.4G ANT1	18.00	63.10	4.30	2.69
Wi-Fi 2.4G ANT2	18.00	63.10	4.30	2.69
Wi-Fi 2.4G MIMO	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-1) ANT1	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-1) ANT2	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-1) MIMO	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2A) ANT1	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2A) ANT2	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2A) MIMO	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2C) ANT1	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2C) ANT2	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-2C) MIMO	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-3) ANT1	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-3) ANT2	18.00	63.10	4.30	2.69
Wi-Fi 5GHz (U-NII-3) MIMO	18.00	63.10	4.30	2.69

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4 MPE Limit

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging 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
1,500-100,000			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
1,500-100,000			1.0	<30

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

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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The maximum permissible exposure for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm^2)
Wi-Fi 2.4GHz	1.000
Wi-Fi 5GHz	1.000

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5 RF Exposure Evaluation Result

RF exposure evaluation method is based on KDB 447498 D01，this calculation is based on the conducted power, maximum power and antenna gain with provides the minimum separation distance. The formula shown below is from OET Bulletin 65 Edition 97-01 Per KDB 447498 D01:

$$S= PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm^2)
P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)
G = the numeric gain of the antenna
R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Tune up (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm^2)	Limit Value (mW/cm^2)	The MPE Ratio
Wi-Fi 2.4G ANT1	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 2.4G ANT2	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 2.4G MIMO	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-1) ANT1	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-1) ANT2	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-1) MIMO	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2A) ANT1	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2A) ANT2	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2A) MIMO	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2C) ANT1	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2C) ANT2	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-2C) MIMO	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-3) ANT1	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-3) ANT2	18.00	4.30	22.300	169.824	0.034	1.000	0.034
Wi-Fi 5GHz (U-NII-3) MIMO	18.00	4.30	22.300	169.824	0.034	1.000	0.034

Note: **R** = 20cm
π= 3.1416
The MPE Ratio = Mac Result÷Limit Value

This device only supports simultaneous transmission via Wi-Fi 2.4GHz and Wi-Fi 5G.

Accordingly, the maximum cumulative ratio of simultaneous transmitting antennas is calculated as follows:
TER = Wi-Fi 2.4GHz Antenna MPE Ratio + Wi-Fi 5GHz Antenna MPE Ratio = 0.034 + 0.034 = 0.068<1

So, the limit is kept.
Note: For this device, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

********END OF REPORT ********

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