

RF Exposure Report

Project Number: 5343557**Offer Number:** SUW-202506008493**Report Number:** SUW5343557EMC05**Report Revision:** 0**Client:** UTEC, Inc. (c/o Carrier Corporation)**Equipment Under Test:** Chiller Controller Display**Model Name:** SmartVu 7.0 Controller**Model Numbers:** CEPL131318, CEPL131319**Contains FCC ID:** 2AK6N-CM276NF**Applicable Standards:** 47 C.F.R. § 2.1091 (Mobile)**FCC KDB 447498 D01 General RF Exposure Guidance v06****FCC OET Bulletin 65****Report issued on:** 30 January 2026**Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

Report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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1 General Information

1.1 Client Information

Company Name: UTEC, Inc. (c/o Carrier Corporation)
 Address: 111 E. Wayne Street, Suite 800
 City, State, Zip, Country: Fort Wayne, IN 46802, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
 Address: 620 Old Peachtree Road NW, Suite 100
 City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
 Type of lab: Testing Laboratory
 Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Chiller Controller Display
 Product Name: SmartVu 7.0 Controller
 Model Numbers: CEPL131318 (7-inch Display)
 CEPL131319 (10-inch Display)
 Model Differences: Both models use the same PCB and PCB housing, the only difference being the display size.
 Contains FCC ID: 2AK6N-CM276NF

Tx Frequency Ranges: 2402 – 2480 MHz (Bluetooth/BLE)
 2412 – 2462 MHz (WLAN 2.4GHz)
 5180 – 5240 MHz (WLAN U-NII-1 Band)
 5260 – 5320 MHz (WLAN U-NII-2A Band)
 5500 – 5720 MHz (WLAN U-NII-2C Band)
 5745 – 5825 MHz (WLAN U-NII-3 Band)

Radio Technologies: Bluetooth Classic
 Bluetooth Low Energy (BLE)
 WLAN IEEE 802.11b/g/n (2.4GHz)
 WLAN IEEE 802.11a/n/ac (5GHz)

Max Conducted Output Power*: Bluetooth Classic: 7.0 dBm
 BLE: 4.8 dBm
 WLAN 2.4GHz: 29.7 dBm
 WLAN U-NII-1 Band: 21.8 dBm
 WLAN U-NII-2A Band: 21.7 dBm
 WLAN U-NII-2C Band: 21.4 dBm
 WLAN U-NII-3 Band: 22.9 dBm

Antenna Type: Two external antennas: Quectel YEBM001L1AH

Antenna Gain*: Bluetooth/BLE & WLAN 2.4GHz: 4.18 dBi
 WLAN U-NII-1/-2A/-2C Bands: 2.98 dBi
 WLAN U-NII-3 Band: 2.75 dBi

** Output power and antenna gain were not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.*

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum power (including tune-up tolerances), the power density was calculated.

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2} \quad \text{or} \quad S = \frac{EIRP}{4\pi R^2}$$

where:

S = Power density (mW/cm²)

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum numeric power gain of antenna relative to an isotropic radiator (dBi -> linear)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

2.3 Single Transmission RF Exposure Levels (mW/cm²)

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{Avg} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
Bluetooth	2400-2483.5	7.0	4.2	0.0	11.2	13	20	0.003	1.00	0.3%	Pass
Bluetooth LE	2400-2483.5	4.8	4.2	0.0	8.9	8	20	0.002	1.00	0.2%	Pass
WLAN 2.4 GHz	2400-2483.5	29.7	4.2	0.0	33.9	2443	20	0.486	1.00	48.6%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	21.8	3.0	0.0	24.8	301	20	0.060	1.00	6.0%	Pass
WLAN 5 GHz (UNII-2A)	5250-5350	21.7	3.0	0.0	24.7	294	20	0.058	1.00	5.8%	Pass
WLAN 5 GHz (UNII-2C)	5470-5725	21.4	3.0	0.0	24.4	274	20	0.055	1.00	5.5%	Pass
WLAN 5 GHz (UNII-3)	5725-5850	22.9	2.8	0.0	25.7	367	20	0.073	1.00	7.3%	Pass

There are no simultaneous transmission scenarios.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	30 January 2026