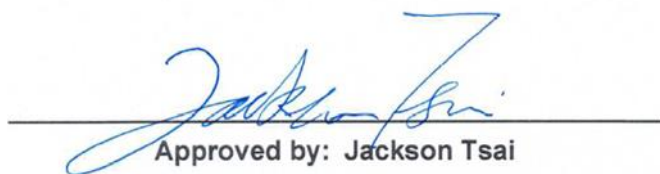


Radio Exposure Evaluation Report

Contains FCC ID : RI7LN920
FCC ID : 2AWUU68B66001
Equipment : Outdoor Remote Deployment Camera
Brand Name : Verkada
Model Name : CR63-XXXE-HW (X is any alphanumeric character, blank, or "-" for marketing purpose only.)
Applicant : VERKADA INC
405 E. 4th Ave, San Mateo, CA 94401, United States
Manufacturer : VERKADA INC
405 E. 4th Ave, San Mateo, CA 94401, United States
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Sep. 02, 2025, and testing was started from Oct. 30, 2025 and completed on Oct. 30, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR FCC Part 2 Subpart J, section 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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Photographs of EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FA590115	01	Initial issue of report	Dec. 10, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

RF General Information		
Evaluation Mode	Frequency Range (MHz)	Modulation Type
LTE Band 2	1850~1910	QPSK/16/64/256QAM
LTE Band 4	1710~1755	
LTE Band 5	824~849	
LTE Band 7	2500~2570	
LTE Band 12	699~716	
LTE Band 13	777~787	
LTE Band 14	788~798	
LTE Band 25	1850~1915	
LTE Band 26	824~849	
LTE Band 30	2305~2315	
LTE Band 41	2496~2690	
LTE Band 48	3550~3700	
LTE Band 66	1710~1780	
LTE Band 71	663~698	

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	SPEED	0790A2331L-B01	PIFA	I-Pex	LTE	WWAN
2	SPEED	0790A2331L-C06	Monopole	I-Pex	LTE	WWAN
3	SPEED	0790A2331L-A07	Dipole	I-Pex	BT	Bluetooth

Ant.	Port	WWAN 4G Gain (dBi)						
		LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 14
1	1	2.97	2.1	0.26	2.08	-0.38	0.14	0.14
2	2	2.22	2.65	0.3	2.04	1.82	1.71	1.71

Ant.	Port	WWAN 4G Gain (dBi)						
		LTE Band 25	LTE Band 26	LTE Band 30	LTE Band 41	LTE Band 48	LTE Band 66	LTE Band 71
1	1	2.97	0.26	0.89	2.08	0.95	2.38	-0.53
2	2	2.22	0.3	0.88	2.64	0.94	2.65	1.76

Ant.	Port	Gain (dBi)						
		Bluetooth						
3	1	2.62						

For WWAN function: (1TX/2RX)

Only Ant. 1 (port 1) could transmit.

Ant. 1 (port 1) and Ant. 2 (port 2) could receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 3 (port 1) could transmit/receive.

1.1.3 Table for Multiple Listing

Model Name	Description
CR63-XXE-HW (X is any alphanumeric character, blank, or "-" for marketing purpose only.)	All the models are identical, the different model served as marketing strategy.

Note: The model CR63-E-HW was measured during the test.

1.1.4 Accessories

Accessories				
Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A03
	Power Cord	0.18 meter, non-shielded cable, w/o ferrite core		
PoE Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A02
	Power Cord	0.45 meter, non-shielded cable, w/o ferrite core		
MC4 Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A01
	Power Cord	0.88 meter, non-shielded cable, w/o ferrite core		
Small Pole Straps*2	Brand Name	Verkada	Model Name	2070A2331L-A36
Large Pole Straps*2	Brand Name	Verkada	Model Name	2070A2331L-A35
Mount Plate	Brand Name	Verkada	Model Name	2070A2331L-A14
Pole Mount	Brand Name	Verkada	Model Name	2070A2331L-B15

Reminder: Regarding to more detail and other information, please refer to user manual.

1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 2 Subpart J, section 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310

1.3 Testing Location

Test Lab. : Sporton International Inc. Hsinhua Laboratory		
☒	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) TEL: 886-3-327-3456 FAX: 886-3-327-0973
Test site Designation No. TW3785 with FCC.		
☐	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287
Test site Designation No. TW0008 with FCC.		

2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

Multiple Transmitters Condition

Co-location as simultaneously transmitting (co-transmitting) and the evaluation shall be consider that simultaneous transmissions from co-located devices the individual transmitters are evaluated separately. After sum of the individual value (basic restriction / reference level) are measured/calculated also have to under basic restriction / reference level.

Co-transmitting mode: WWAN(LTE) + Bluetooth

2.2 RF Exposure Exempt Measurement

Option	Refer Std.	Exemption Exposure Thresholds (TL)
A	§1.1307(b)(3)(i)(A)	Available maximum time-averaged power is no more than 1 mW
B	§1.1307(b)(3)(i)(B)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040f(mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ $f \text{ is in MHz; } R \text{ is in m; } R > \lambda / 2\pi$

2.3 Multiple RF Sources Exposure

Refer Std.	Exemption Exposure Thresholds (TL)
§1.1307(b)(3)(ii)(A)	The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required)
§1.1307(b)(3)(ii)(B)	$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k} \leq 1$ a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters. P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive). P_{th,i} = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i. ERP_j = the ERP of fixed, mobile, or portable RF source j. ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section. Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Evaluated Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.



2.4 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.
The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	2.62	-0.03	2.59	0.50	1.24	20	B	3060.000	0.00041

LTE

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
LTE Band 2	2.97	23.50	26.47	0.50	303.47	20	B	3060.000	0.09917
LTE Band 4	2.65	23.50	26.15	0.50	281.91	20	B	3060.000	0.09213
LTE Band 5	0.3	23.50	23.80	0.50	164.10	20	B	1680.960	0.09762
LTE Band 7	2.08	23.50	25.58	0.50	247.24	20	B	3060.000	0.08080
LTE Band 12	1.82	23.50	25.32	0.50	232.87	20	B	1425.960	0.16331
LTE Band 13	1.71	23.50	25.21	0.50	227.04	20	B	1585.080	0.14324
LTE Band 14	1.71	23.50	25.21	0.50	227.04	20	B	1607.520	0.14124
LTE Band 25	2.97	23.50	26.47	0.50	303.47	20	B	3060.000	0.09917
LTE Band 26	0.3	23.50	23.80	0.50	164.10	20	B	1660.560	0.09882
LTE Band 30	0.89	23.50	24.39	0.50	187.98	20	B	3060.000	0.06143
LTE Band 41	2.64	26.50	29.14	0.50	561.19	20	B	3060.000	0.18340
LTE Band 48	0.95	22.00	22.95	0.50	134.93	20	B	3060.000	0.04409
LTE Band 66	2.65	23.50	26.15	0.50	281.91	20	B	3060.000	0.09213
LTE Band 71	1.76	23.50	25.26	0.50	229.67	20	B	3060.000	0.07506

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)



Simultaneous Transmission Analysis Mode: WWAN(LTE) + Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	2.62	-0.03	2.59	0.50	1.24	20	B	3060.000	0.00041
LTE Band 41	2.64	26.50	29.14	0.50	561.19	20	B	3060.000	0.18340
Sum Ratio	0.18381								
Ratio Limit	1.00000								

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

Note 4: Refer as clause 2.3 Multiple RF Sources Exposure. Please follow below option and sum TL ration table.

Option	Sum TL Ratio_B	Option	Sum TL Ratio_C	Option	Sum TL Ratio_E
B	$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	C	$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	E	$\sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k}$

Note: The above antenna gain was declared by manufacturer.

————THE END————