RF EXPOSURE REPORT

Applicant:	Capte Technologies Inc. 1968 S Coast Hwy, 3295, Laguna Beach, CA, US, 92651
Manufacturer:	Global Dynamics International Co. 12F., No.39, Ln. 35, Zhuguang Rd., North Dist., Hsinchu City 30048, Taiwan
Product Name:	WeCapte 6
Brand Name:	WeCapte 6
Model No.:	WeCapte
FCC ID	2BC9RWECAPTE-6
Date of EUT Received:	Mar. 08, 2024
Issue Date:	Jul. 04, 2025

Approved By John Yeh

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2403000129E5	00	Original	Jun. 04, 2025	Cindy Chou	
TESA2403000129E5	01	Update antenna supplier	Jun. 20, 2025	Cindy Chou	*
TESA2403000129E5	02	Update gain	Jul. 04, 2025	Cindy Chou	*

Note:

1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	WeCapte 6
Brand Name:	WeCapte 6
Model No.:	WeCapte

1.2 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☐	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	☒	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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1.3 Antenna Information:

BT

Antenna Type	Supplier	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	GDI	2.4GHz	**2.52**

WWAN

Operating Frequency (MHz)				Ant 0 Peak Gain (dBi)
GSM / GPRS / EDGE 850	824	~	849	-4.51
GSM / GPRS / EDGE 1900	1850	~	1910	-4.53
LTE / NB-IOT Band 2	1850	~	1910	-4.53
LTE / NB-IOT Band 4	1710	~	1755	-5.52
LTE / NB-IOT Band 5	824	~	849	-4.51
LTE / NB-IOT Band 12	699	~	716	-4.76
LTE / NB-IOT Band 13	777	~	787	-3.03
LTE / NB-IOT Band 25	1850	~	1915	-4.53
LTE-Band 26	824	~	849	-4.51
LTE-Band 26 Part 90	814	~	824	-4.25
LTE / NB-IOT Band 66	1710	~	1780	-4.06
NB-IOT Band 71	663	~	698	-5.03
LTE / NB-IOT Band 85	698	~	716	-4.41

Note: Antenna information is provided by the applicant.

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1.4 Rated Power

Bluetooth

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)
BLE	2402-2480	40	GFSK	-7.5	2.52	-4.98

WWAN

Operating Frequency (MHz)				Max. Output Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	separation distance(m)	ERPth (W)	ERP/ERPth	FCC Worst Case	EIRP / ERP (dBm)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Density / Limit	FCC Worst Case
GSM / GPRS / EDGE 850	824	~	849	25.97	-4.51	19.31	0.09	0.2	0.42	0.21	V	21.46	0.03	0.55	0.05	V
GSM / GPRS / EDGE 1900	1850	~	1910	22.97	-4.53	16.29	0.04	0.2	0.77	0.05		18.44	0.01	1.00	0.01	
LTE / NB-IOT Band 2	1850	~	1910	22.00	-4.53	15.32	0.03	0.2	0.77	0.04		17.47	0.01	1.00	0.01	
LTE / NB-IOT Band 4	1710	~	1755	22.00	-5.52	14.33	0.03	0.2	0.77	0.04		16.48	0.01	1.00	0.01	
LTE / NB-IOT Band 5	824	~	849	22.00	-4.51	15.34	0.03	0.2	0.42	0.07		17.49	0.01	0.55	0.02	
LTE / NB-IOT Band 12	699	~	716	22.00	-4.76	15.09	0.03	0.2	0.36	0.08		17.24	0.01	0.47	0.02	
LTE / NB-IOT Band 13	777	~	787	22.00	-3.03	16.82	0.05	0.2	0.40	0.13		18.97	0.02	0.52	0.04	
LTE / NB-IOT Band 25	1850	~	1915	22.00	-4.53	15.32	0.03	0.2	0.77	0.04		17.47	0.01	1.00	0.01	
LTE-Band 26	824	~	849	22.00	-4.51	15.34	0.03	0.2	0.42	0.07		17.49	0.01	0.55	0.02	
LTE-Band 26 Part 90	814	~	824	22.00	-4.25	15.60	0.04	0.2	0.42	0.10		17.75	0.01	0.54	0.02	
LTE / NB-IOT Band 66	1710	~	1780	22.00	-4.06	15.79	0.04	0.2	0.77	0.05		17.94	0.01	1.00	0.01	
NB-IOT Band 71	663	~	698	20.00	-5.03	12.82	0.02	0.2	0.34	0.06		14.97	0.01	0.44	0.02	
LTE / NB-IOT Band 85	698	~	716	22.00	-4.41	15.44	0.03	0.2	0.36	0.08		17.59	0.01	0.47	0.02	

Note: PG information is provided by the applicant.

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
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
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

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

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max.Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm^2)	Limit (mW/cm^2)	Pass / Fail	Power Density / Limit	Collocated MPE
BLE	2480.00	20	-7.5	2.52	0.32	0.0001	1.000	Pass	0.000	V
WWAN	849.00	20	25.97	-4.51	139.96	0.028	0.566	Pass	0.049	V

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

2.2.1 Collocated Power Density Calculation

Operation Mode	Power Density / Limit	Σ (Power Density / Limit)
BLE	0.000	0.049
WWAN	0.049	

Note:

1. Σ(Power Density / Limit): This is a summation of [(Power Density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].

2. Considering the collocated transmitters, the aggregated (Power Density /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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