

Project No: TM-2602000265P
Report No.: TMWK2603001432KR

FCC ID: JNZVR0050

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RF Exposure Evaluation Report

FCC 47 CFR § 2.1091

for
Camera and Speakerphone

Model Name.: VR0050

Prepared for:

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Prepared by

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Issue Date: June 18, 2026**

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 10, 2026	Initial Issue	ALL	Allison Chen
01	June 18, 2026	See the following Note Rev.(01)	P.17-18	Allison Chen

Note:

Rev.(01)

1. Modify test result in section 6.

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1 Attestation of Test Results

Applicant Name	Logitech Far East Ltd.
Model Name	VR0050
Applicable Standards	FCC 47 CFR § 2.1091 FCC 47 CFR § 1.1310 Published RF exposure KDB procedures
Receive EUT Date:	February 12, 2026
Date of Test:	May 25, 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	Camera and Speakerphone
Trade Name	logi, logitech, Logitech
Model No.	VR0050
Model Discrepancy	N/A
Hardware Version	PB2-2
Software Version	920.72
Sample Stage	Identical prototype

3.2 Wireless Technologies

Frequency bands	☒ Bluetooth: 2402MHz-2480MHz WIFI 2.4GHz ☒ 802.11b/g/n HT20/ax HE20 mode:: 2412MHz ~ 2462 MHz ☐ 802.11n HT40 mode:: 2422MHz ~ 2452 MHz WIFI 5GHz ☒ 802.11a/n HT20 / ac VHT20 / ax HE20 mode: 5180MHz ~ 5240MHz / 5260 ~ 5320MHz / 5500 ~ 5700MHz / 5745MHz ~ 5825MHz ☒ 802.11n HT40 / ac VHT40 / ax HE40 mode: 5190 MHz ~ 5230 MHz / 5270 MHz ~ 5310 MHz / 5510 MHz ~ 5670 MHz / 5755 MHz ~ 5795 MHz ☒ 802.11ac VHT80 / ax HE80 mode: 5210 MHz / 5290 MHz / 5530 ~ 5610 MHz / 5775 MHz WWAN: ☐ WCDMA Band II: 1850 ~ 1910 MHz ☐ WCDMA Band IV: 1710 ~ 1755 MHz ☐ WCDMA Band V: 824 ~ 849 MHz ☐ LTE Band 2: 1850 ~ 1910 MHz ☐ LTE Band 4: 1710 ~ 1755 MHz ☐ LTE Band 5: 824 ~ 849 MHz ☐ LTE Band 7: 2500 ~ 2570 MHz ☐ LTE Band 12: 699 ~ 716 MHz ☐ LTE Band 13: 777 ~ 787 MHz ☐ LTE Band 25: 1850 ~ 1915 MHz ☐ LTE Band 26: 814 ~ 849 MHz ☐ LTE Band 38: 2570 ~ 2620 MHz ☐ LTE Band 41: 2496 ~ 2690 MHz ☐ LTE Band 66: 1710 ~ 1780 MHz ☒ Others: Radar 24.15 ~ 24.24 GHz
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure

**Antenna
Specification**

Type: PCB Antenna

Bluetooth: Gain: 4.03 dBi

WIFI 2.4GHz

Frequency	CH 0 Gain (dBi)	CH 1 Gain (dBi)	Total Gain (dBi)
2412-2462MHz	4.03	5.37	7.74

WIFI 5GHz

Band	CH 0 Gain (dBi)	CH 1 Gain (dBi)	Total Gain (dBi)
Band I	6.21	6.85	9.55
Band II	6.21	6.85	9.55
Band III	6.15	6.02	9.10
Band IV	6.46	7.11	9.80

Radar

Type: Patch Antenna
Gain: 6.6 dBi

BLE	Gain :	4.03 dBi	(Numeric gain: 2.53)	Worst
2.4GHz:	Gain :	7.74 dBi	(Numeric gain: 5.94)	Worst
5GHz:				
Band 1	Gain :	9.55 dBi	(Numeric gain: 9.02)	Worst
Band 2	Gain :	9.55 dBi	(Numeric gain: 9.02)	Worst
Band 3	Gain :	9.10 dBi	(Numeric gain: 8.13)	Worst
Band 4	Gain :	9.80 dBi	(Numeric gain: 9.55)	Worst
Radar:	Gain :	6.60 dBi	(Numeric gain: 4.57)	Worst

Maximum
tune up
power

BLE	4.11 dBm	(2.58 mW)
WIFI 2.4GHz		
IEEE 802.11b (Multiple)	16.92 dBm	(49.20 mW)
IEEE 802.11g (Multiple)	14.88 dBm	(30.76 mW)
IEEE 802.11n HT 20 (MIMO)	12.58 dBm	(18.11 mW)
IEEE 802.11ax HE 20 (MIMO)	12.92 dBm	(19.59 mW)
WIFI 5.2GHz (U-NII 1)		
IEEE 802.11a (Multiple)	13.89 dBm	(24.49 mW)
IEEE 802.11n HT 20 (MIMO)	14.04 dBm	(25.35 mW)
IEEE 802.11n HT 40 (MIMO)	11.16 dBm	(13.06 mW)
IEEE 802.11ac VHT 20 (MIMO)	13.99 dBm	(25.06 mW)
IEEE 802.11ac VHT 40 (MIMO)	10.99 dBm	(12.56 mW)
IEEE 802.11ac VHT 80 (MIMO)	11.44 dBm	(13.93 mW)
IEEE 802.11ax HE 20 (MIMO)	14.31 dBm	(26.98 mW)
IEEE 802.11ax HE 40 (MIMO)	11.25 dBm	(13.34 mW)
IEEE 802.11ax HE 80 (MIMO)	11.51 dBm	(14.16 mW)
WIFI 5.3GHz (U-NII 2A)		
IEEE 802.11a (Multiple)	15.34 dBm	(34.20 mW)
IEEE 802.11n HT 20 (MIMO)	15.39 dBm	(34.59 mW)
IEEE 802.11n HT 40 (MIMO)	11.24 dBm	(13.30 mW)
IEEE 802.11ac VHT 20 (MIMO)	15.35 dBm	(34.28 mW)
IEEE 802.11ac VHT 40 (MIMO)	11.06 dBm	(12.76 mW)
IEEE 802.11ac VHT 80 (MIMO)	10.70 dBm	(11.75 mW)
IEEE 802.11ax HE 20 (MIMO)	15.52 dBm	(35.65 mW)
IEEE 802.11ax HE 40 (MIMO)	11.46 dBm	(14.00 mW)
IEEE 802.11ax HE 80 (MIMO)	10.87 dBm	(12.22 mW)
WIFI 5.5GHz (U-NII 2C)		
IEEE 802.11a (Multiple)	16.30 dBm	(42.66 mW)
IEEE 802.11n HT 20 (MIMO)	16.23 dBm	(41.98 mW)
IEEE 802.11n HT 40 (MIMO)	13.58 dBm	(22.80 mW)
IEEE 802.11ac VHT 20 (MIMO)	16.20 dBm	(41.69 mW)
IEEE 802.11ac VHT 40 (MIMO)	13.54 dBm	(22.59 mW)
IEEE 802.11ac VHT 80 (MIMO)	10.39 dBm	(10.94 mW)
IEEE 802.11ax HE 20 (MIMO)	16.26 dBm	(42.27 mW)
IEEE 802.11ax HE 40 (MIMO)	13.78 dBm	(23.88 mW)
IEEE 802.11ax HE 80 (MIMO)	10.46 dBm	(11.12 mW)

Maximum tune up power	WIFI 5.8GHz (U-NII 3)		
	IEEE 802.11a (Multiple)	15.76 dBm	(37.67 mW)
	IEEE 802.11n HT 20 (MIMO)	15.92 dBm	(39.08 mW)
	IEEE 802.11n HT 40 (MIMO)	13.50 dBm	(22.39 mW)
	IEEE 802.11ac VHT 20 (MIMO)	15.84 dBm	(38.37 mW)
	IEEE 802.11ac VHT 40 (MIMO)	13.45 dBm	(22.13 mW)
	IEEE 802.11ac VHT 80 (MIMO)	7.44 dBm	(5.55 mW)
	IEEE 802.11ax HE 20 (MIMO)	15.99 dBm	(39.72 mW)
	IEEE 802.11ax HE 40 (MIMO)	13.75 dBm	(23.71 mW)
	IEEE 802.11ax HE 80 (MIMO)	7.83 dBm	(6.07 mW)
	Radar	-6.68 dBm	(0.21 mW)

Notes:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. The tune up power referred the AVG power of the test report TMWK2603001432KR,, TMWK2603001433KR, TMWK2603001434KR and TMWK2603001435KR for RF Exposure assessment purpose.



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4 Measurement Uncertainty

BLE & 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



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Radar

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	±2.37dB
Channel Bandwidth	±2.85dB
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
Radiated Emission_40GHz-60GHz	±2.259 dB
Radiated Emission_60GHz-90GHz	±2.215 dB
Radiated Emission_90GHz-140GHz	±2.225 dB



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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 Radio Frequency Radiation Max Exposure Evaluation

Bluetooth

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
BLE	4.11	2.58	4.03	2.53	20	0.001	1

WIFI 2.4GHz (DTS)

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
IEEE 802.11b (Multiple)	16.92	49.20	7.74	5.94	20	0.058	1
IEEE 802.11g (Multiple)	14.88	30.76	7.74	5.94	20	0.036	1
IEEE 802.11n HT 20 (MIMO)	12.58	18.11	7.74	5.94	20	0.021	1
IEEE 802.11ax HE 20 (MIMO)	12.92	19.59	7.74	5.94	20	0.023	1

WIFI 5.2GHz (U-NII 1)

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
IEEE 802.11a (Multiple)	13.89	24.49	9.55	9.02	20	0.044	1
IEEE 802.11n HT 20 (MIMO)	14.04	25.35	9.55	9.02	20	0.045	1
IEEE 802.11n HT 40 (MIMO)	11.16	13.06	9.55	9.02	20	0.023	1
IEEE 802.11ac VHT 20 (MIMO)	13.99	25.06	9.55	9.02	20	0.045	1
IEEE 802.11ac VHT 40 (MIMO)	10.99	12.56	9.55	9.02	20	0.023	1
IEEE 802.11ac VHT 80 (MIMO)	11.44	13.93	9.55	9.02	20	0.025	1
IEEE 802.11ax HE 20 (MIMO)	14.31	26.98	9.55	9.02	20	0.048	1
IEEE 802.11ax HE 40 (MIMO)	11.25	13.34	9.55	9.02	20	0.024	1
IEEE 802.11ax HE 80 (MIMO)	11.51	14.16	9.55	9.02	20	0.025	1

WIFI 5.3GHz (U-NII 2A)

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
IEEE 802.11a (Multiple)	15.34	34.20	9.55	9.02	20	0.061	1
IEEE 802.11n HT 20 (MIMO)	15.39	34.59	9.55	9.02	20	0.062	1
IEEE 802.11n HT 40 (MIMO)	11.24	13.30	9.55	9.02	20	0.024	1
IEEE 802.11ac VHT 20 (MIMO)	15.35	34.28	9.55	9.02	20	0.061	1
IEEE 802.11ac VHT 40 (MIMO)	11.06	12.76	9.55	9.02	20	0.023	1
IEEE 802.11ac VHT 80 (MIMO)	10.70	11.75	9.55	9.02	20	0.021	1
IEEE 802.11ax HE 20 (MIMO)	15.52	35.65	9.55	9.02	20	0.064	1
IEEE 802.11ax HE 40 (MIMO)	11.46	14.00	9.55	9.02	20	0.025	1
IEEE 802.11ax HE 80 (MIMO)	10.87	12.22	9.55	9.02	20	0.022	1

WIFI 5.5GHz (U-NII 2C)

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
IEEE 802.11a (Multiple)	16.30	42.66	9.10	8.13	20	0.069	1
IEEE 802.11n HT 20 (MIMO)	16.23	41.98	9.10	8.13	20	0.068	1
IEEE 802.11n HT 40 (MIMO)	13.58	22.80	9.10	8.13	20	0.037	1
IEEE 802.11ac VHT 20 (MIMO)	16.20	41.69	9.10	8.13	20	0.067	1
IEEE 802.11ac VHT 40 (MIMO)	13.54	22.59	9.10	8.13	20	0.037	1
IEEE 802.11ac VHT 80 (MIMO)	10.39	10.94	9.10	8.13	20	0.018	1
IEEE 802.11ax HE 20 (MIMO)	16.26	42.27	9.10	8.13	20	0.068	1
IEEE 802.11ax HE 40 (MIMO)	13.78	23.88	9.10	8.13	20	0.039	1
IEEE 802.11ax HE 80 (MIMO)	10.46	11.12	9.10	8.13	20	0.018	1



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WIFI 5.8GHz (U-NII 3)

Mode	Max Tune-up power (dBm)	Max Tune-up power (mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
IEEE 802.11a (Multiple)	15.76	37.67	9.80	9.55	20	0.072	1
IEEE 802.11n HT 20 (MIMO)	15.92	39.08	9.80	9.55	20	0.074	1
IEEE 802.11n HT 40 (MIMO)	13.50	22.39	9.80	9.55	20	0.043	1
IEEE 802.11ac VHT 20 (MIMO)	15.84	38.37	9.80	9.55	20	0.073	1
IEEE 802.11ac VHT 40 (MIMO)	13.45	22.13	9.80	9.55	20	0.042	1
IEEE 802.11ac VHT 80 (MIMO)	7.44	5.55	9.80	9.55	20	0.011	1
IEEE 802.11ax HE 20 (MIMO)	15.99	39.72	9.80	9.55	20	0.075	1
IEEE 802.11ax HE 40 (MIMO)	13.75	23.71	9.80	9.55	20	0.045	1
IEEE 802.11ax HE 80 (MIMO)	7.83	6.07	9.80	9.55	20	0.012	1

Radar

Mode	Result power (dBuV/m) @3m	Max EIRP Tune-up power (dBm)	Max EIRP Tune-up power (mW)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
Radar	88.05	-6.68	0.21	20	0.00	1

7 Simultaneous Transmission Analysis

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),

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

7.1 Sum of the WiFi 5GHz + WiFi 2.4GHz + Radar

Therefore, the worst-case situation is $0.075 / 1 + 0.058 / 1 + 0 / 1 = 0.133$, which is less than “1”.

7.2 Sum of the WiFi 5GHz + Bluetooth + Radar

Therefore, the worst-case situation is $0.075 / 1 + 0.001 / 1 + 0 / 1 = 0.076$, which is less than “1”.



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8 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