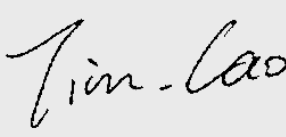
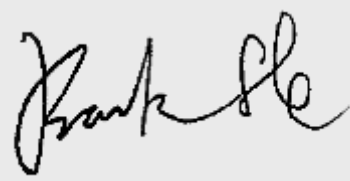




Test report No:

2650364R.704

FCC EXPOSURE TEST REPORT

Product Name	5G Outdoor Unit
Trademark	
Model and /or type reference	ODU12
FCC ID	2BPWU-ODU12
Applicant's name / address	InHand Networks, Inc. 3650 Concorde Pkwy, Suite 200, Chantilly, VA 20151, USA
Test method requested, standard	FCC 47CFR §2.1091
Verdict Summary	IN COMPLIANCE
Documented By (name / position & signature)	Tim Cao/ Project Manager 
Approved by (name / position & signature)	Frank He/ Technical Manager 
Date of issue	2026-08-07
Report Version	V1.0
Report template No.	Template_FCC-MPE-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	No. 668, Jiangling Nanxiang Road, Wujiang District, Suzhou City, Jiangsu Province, 215200
Date(receive sample)	May. 15, 2026
Date (start test)	May. 21, 2026
Date (finish test)	Jul. 27, 2026

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2650364R.704	V1.0	Initial issue of report.	2026-08-07

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with FCC 47CFR §2.1091.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, it is not necessary to account the uncertainty associated with the measurement result.
4. The test results relate only to the samples tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1 General Information;

1 GENERAL INFORMATION

Product Name	5G Outdoor Unit	
Model No.	ODU12	
Trademark		
FCC ID	2BPWU-ODU12	
Manufacturer	InHand Networks, Inc.	
Manufacturer Address	3650 Concorde Pkwy, Suite 200, Chantilly, VA 20151, USA	
Power Supply	48~57Vdc	
Hardware version	V1.2	
Software version	V2.0	
Wireless specification 1	Wi-Fi 802.11a/b/g/n/ax/be	
Operating frequency range(s)	2.4G ISM band: 2400~2483.5MHz U-NII-1: 5150 MHz to 5250 MHz U-NII-3: 5725 MHz to 5850 MHz	
Type of modulation	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11a/g/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax/be: OFDMA -BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024 QAM, 4096QAM	
Channel Spacing	802.11b/g/n/ac/ax/be: 20MHz 802.11n/ac/ax/be: 40MHz 802.11ac/ax/be: 80MHz	
Antenna Type	PIFA	
Antenna Gain	2.4G: SISO-Ant 1: 3.8 dBi SISO-Ant 2: 4.3 dBi MIMO directional gain for power: 4.3 dBi MIMO directional gain for PSD: 7.31 dBi	
	5G: SISO- Ant 1: 3.8 dBi SISO- Ant 2: 4.3 dBi SISO- Ant 3: 5.4 dBi MIMO directional gain for power Ant 1&2: 4.3 dBi MIMO directional gain for PSD Ant 1&2: 7.31 dBi MIMO directional gain for power Ant 1&3: 5.4 dBi MIMO directional gain for PSD Ant 1&3: 8.41 dBi MIMO directional gain for power Ant 2&3: 5.4 dBi MIMO directional gain for PSD Ant 2&3: 8.41 dBi MIMO directional gain for power Ant 1&2&3: 5.4 dBi MIMO directional gain for PSD Ant 1&2&3: 10.17 dBi	
Wireless specification 2	WWAN -LTE, NR	
Support Band(s)	LTE	FDD Band 2/4/5/7/12/13/14/17/25/26/30/66/70/71 TDD Band 38/41/42/43/48
	NR	FDD n2/5/7/12/13/14/25/26/30/66/70/71 TDD n38/41/48/77/78
Antenna Type	PIFA	
Antenna Gain	ANT0 3300–4200 MHz: 0.5 dBi	

ANT1 617–894 MHz, 1695–2690 MHz, 3300–4200 MHz: 0.5 dBi
ANT2 3300–4200 MHz MHz: 1.7 dBi
ANT3 617–894 MHz, 1695–2690 MHz, 3300–4200 MHz: 3.9 dBi
ANT4 3300–4200 MHz MHz: 2.1 dBi
ANT5 617–894 MHz, 1695–2690 MHz, 3300–4200 MHz: 2.8 dBi
ANT6 3300–4200 MHz: 0 dBi
ANT7 617–894 MHz, 1695–2690 MHz, 3300–4200 MHz: 1 dBi

Remark:

1. As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2. RF Exposure Evaluation

2.1. Limits: KDB 447498 D04

B.2 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1 mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph § 1.1307(b)(3)(ii)(A).

The 1 mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

B.3 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES
SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source Frequency			Minimum Distance			Threshold ERP
f_L MHz		f_H MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	–	1.34	159 m	–	35.6 m	$1,920 R^2$
1.34	–	30	35.6 m	–	1.6 m	$3,450 R^2/f^2$
30	–	300	1.6 m	–	159 mm	$3.83 R^2$
300	–	1,500	159 mm	–	31.8 mm	$0.0128 R^2 f$
1,500	–	100,000	31.8 mm	–	0.5 mm	$19.2 R^2$
Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and

§ 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only 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.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

B.4 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.1).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201
	450	22	44	67	89	112	135	158	180	203
	835	9	25	44	66	90	116	145	175	207
	1900	3	12	26	44	66	92	122	157	195
	2450	3	10	22	38	59	83	111	143	179
	3600	2	8	18	32	49	71	96	125	158
	5800	1	6	14	25	40	58	80	106	136

Simultaneous Transmission SAR Test Exemption with Respect to Multiple Exemption Criteria

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

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

- a. number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for P_{th} , including existing exempt transmitters and those being added.
- b. number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula 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.

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 the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i .

ERP_j the available maximum time-averaged power or the ERP, whichever is greater, 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 $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

$Evaluated_k$ 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.

Exposure Limit $_k$ either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

The sum of the ratios of the applicable terms for SAR-based, MPE-based and measured SAR or MPE shall be less than 1, to determine simultaneous transmission exposure compliance.

2.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

2.3. Test Result of RF Exposure Evaluation

Standalone Mode:

B.2 Blanket 1 mW Blanket Exemption

Test Mode	Frequency Band (MHz)	Maximum conducted Power or tune-up power (dBm)	Maximum EIRP Power (dBm)	Maximum Power (mW)	Limit (mW)	Result
Wi-Fi 2.4GHz	2400-2483.5	28.17	32.47	1766.04	1	Not applicable
Wi-Fi 5GHz	5150-5350 5470-5850	27.96	32.51	1782.38	1	Not applicable
LTE Band2	1850-1910	25	26	398.11	1	Not applicable
LTE Band4	1710-1755	25	26	398.11	1	Not applicable
LTE Band5	824-849	25	26	398.11	1	Not applicable
LTE Band7	2500-2570	25	26	398.11	1	Not applicable
LTE Band12	699-716	25	26	398.11	1	Not applicable
LTE Band13	777-787	25	26	398.11	1	Not applicable
LTE Band14	788-798	25	26	398.11	1	Not applicable
LTE Band17	704-716	25	26	398.11	1	Not applicable
LTE Band25	1850-1915	25	26	398.11	1	Not applicable
LTE Band26	814-824	25	26	398.11	1	Not applicable
LTE Band26	824-849	25	26	398.11	1	Not applicable
LTE Band30	2305-2315	25	26	398.11	1	Not applicable
LTE Band38	2570-2620	28	29	794.33	1	Not applicable
LTE Band41	2496-2690	28	29	794.33	1	Not applicable
LTE Band42	3450-3500	25	25	316.23	1	Not applicable
LTE Band43	3700-3800	25	25	316.23	1	Not applicable
LTE Band48	3550-3700	25	25	316.23	1	Not applicable
LTE Band66	1710-1780	25	26	398.11	1	Not applicable
LTE Band70	1695-1710	25	26	398.11	1	Not applicable
LTE Band71	663-698	25	26	398.11	1	Not applicable
NR n2	1850-1910	25	26	398.11	1	Not applicable
NR n5	824-849	25	26	398.11	1	Not applicable
NR n7	2500-2570	25	25.5	354.81	1	Not applicable
NR n12	699-716	25	26	398.11	1	Not applicable
NR n13	777-787	25	26	398.11	1	Not applicable
NR n14	788-798	25	26	398.11	1	Not applicable
NR n25	1850-1915	25	26	398.11	1	Not applicable
NR n26	814-824	25	25.5	354.81	1	Not applicable
NR n26	824-849	25	25.5	354.81	1	Not applicable
NR n30	2305-2315	25	25.5	354.81	1	Not applicable

NR n38	2570-2620	28	29	794.33	1	Not applicable
NR n41	2496-2690	30	31	1258.93	1	Not applicable
NR n48	3550-3700	25	25	316.23	1	Not applicable
NR n66	1710-1780	25	26	398.11	1	Not applicable
NR n70	1695-1710	25	26	398.11	1	Not applicable
NR n71	663-698	25	26	398.11	1	Not applicable
NR n77	3700-3980	30	30	1000.00	1	Not applicable
NR n77	3450-3550	30	30	1000.00	1	Not applicable
NR n78	3700-3780	30	30	1000.00	1	Not applicable
NR n78	3450-3550	30	30	1000.00	1	Not applicable

B.3 MPE-based Exemption

Test Mode	Frequency Band (MHz)	Maximum conducted Power (dBm)	Maximum ERP Power (dBm)	Maximum ERP Power (mW)	R (cm)	$\lambda/2\pi$ (cm)	Threshold ERP (mW)	Result
Wi-Fi 2.4GHz	2400-2483.5	28.17	30.32	1076.47	30	1.99	1728	Pass
Wi-Fi 5GHz	5150-5250 5725-5850	27.96	30.36	1086.43	30	0.93	1728	Pass
LTE Band2	1850-1910	25	23.85	242.66	30	2.58	1728	Pass
LTE Band4	1710-1755	25	23.85	242.66	30	2.79	1728	Pass
LTE Band5	824-849	25	23.85	242.66	30	5.79	1728	Pass
LTE Band7	2500-2570	25	23.85	242.66	30	1.91	1728	Pass
LTE Band12	699-716	25	23.85	242.66	30	6.83	1728	Pass
LTE Band13	777-787	25	23.85	242.66	30	6.14	1728	Pass
LTE Band14	788-798	25	23.85	242.66	30	6.06	1728	Pass
LTE Band17	704-716	25	23.85	242.66	30	6.78	1728	Pass
LTE Band25	1850-1915	25	23.85	242.66	30	2.58	1728	Pass
LTE Band26	814-824	25	23.85	242.66	30	5.87	1728	Pass
LTE Band26	824-849	25	23.85	242.66	30	5.79	1728	Pass
LTE Band30	2305-2315	25	23.85	242.66	30	2.07	1728	Pass
LTE Band38	2570-2620	28	26.85	484.17	30	1.86	1728	Pass
LTE Band41	2496-2690	28	26.85	484.17	30	1.91	1728	Pass
LTE Band42	3450-3500	25	22.85	192.75	30	1.38	1728	Pass
LTE Band43	3700-3800	25	22.85	192.75	30	1.29	1728	Pass
LTE Band48	3550-3700	25	22.85	192.75	30	1.34	1728	Pass
LTE Band66	1710-1780	25	23.85	242.66	30	2.79	1728	Pass
LTE Band70	1695-1710	25	23.85	242.66	30	2.82	1728	Pass
LTE Band71	663-698	25	23.85	242.66	30	7.20	1728	Pass
NR n2	1850-1910	25	23.85	242.66	30	2.58	1728	Pass
NR n5	824-849	25	23.85	242.66	30	5.79	1728	Pass
NR n7	2500-2570	25	23.35	216.27	30	1.91	1728	Pass
NR n12	699-716	25	23.85	242.66	30	6.83	1728	Pass
NR n13	777-787	25	23.85	242.66	30	6.14	1728	Pass
NR n14	788-798	25	23.85	242.66	30	6.06	1728	Pass
NR n25	1850-1915	25	23.85	242.66	30	2.58	1728	Pass
NR n26	814-824	25	23.35	216.27	30	5.87	1728	Pass
NR n26	824-849	25	23.35	216.27	30	5.79	1728	Pass
NR n30	2305-2315	25	23.35	216.27	30	2.07	1728	Pass

NR n38	2570-2620	28	26.85	484.17	30	1.86	1728	Pass
NR n41	2496-2690	30	28.85	767.36	30	1.91	1728	Pass
NR n48	3550-3700	25	22.85	192.75	30	1.34	1728	Pass
NR n66	1710-1780	25	23.85	242.66	30	2.79	1728	Pass
NR n70	1695-1710	25	23.85	242.66	30	2.82	1728	Pass
NR n71	663-698	25	23.85	242.66	30	7.20	1728	Pass
NR n77	3700-3980	30	27.85	609.54	30	1.29	1728	Pass
NR n77	3450-3550	30	27.85	609.54	30	1.38	1728	Pass
NR n78	3700-3780	30	27.85	609.54	30	1.29	1728	Pass
NR n78	3450-3550	30	27.85	609.54	30	1.38	1728	Pass

Simultaneous Transmission:

Simultaneous Transmission:

Test Mode	Frequency Band (MHz)	Maximum conducted Power (dBm)	Maximum ERP Power (dBm)	Maximum Power (mW)	Threshold ERP (mW)	Rate	Total Rate	Limit	Result
Wi-Fi 2.4GHz + NR n48									
Wi-Fi 2.4GHz	2400-2483.5	28.17	30.32	1076.47	1728	0.62	0.97	1	Pass
NR n78	3550-3700	30	27.85	609.54	1728	0.35			
Wi-Fi 5GHz + NR n48									
Wi-Fi 5GHz	5150-5250 5725-5850	27.96	30.36	1086.43	1728	0.63	0.98	1	Pass
NR n78	3550-3700	30	27.85	609.54	1728	0.35			

The safe use distance of the EUT is 30cm, without any other radio equipment.

The End