



中国认可
国际互认
检测
TESTING
CNAS L6791

TEST REPORT

Applicant: Datalogic S.r.l.
Address: Via S. Vitalino 13, 40012 Lippo di Calderara di Reno
Italy
Equipment Type: DATALOGIC SMART PORTAL
Model Name: MGRWF
Brand Name: DATALOGIC
FCC ID: U4G-MGRWF
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Feb. 04, 2026
Test Date: May 28, 2026
Date of Issue: Jun. 04, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 04, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information	5
3	SUMMARY OF TEST RESULT	7
3.1	Test Standards	7
3.2	Limit Standards.....	7
4	DEVICE CATEGORY AND LEVELS LIMITS	8
5	ASSESSMENT RESULT	10
5.1	Output Power	10
5.2	Tune-up power	12
5.3	RF Exposure Evaluation Result	14
5.4	Collocated Power Calculation	17
5.5	Conclusion.....	17

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Datalogic S.r.l.
Address	Via S. Vitalino 13, 40012 Lippo di Calderara di Reno Italy

2.2 Manufacturer Information

Manufacturer	Datalogic S.r.l.
Address	Via S. Vitalino 13, 40012 Lippo di Calderara di Reno Italy

2.3 General Description for Equipment under Test (EUT)

EUT Name	DATALOGIC SMART PORTAL
Model Name Under Test	MGRWF
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.2
Software Version	3.17.131.20260318 release-keys
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax NFC
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WIFI, Bluetooth, NFC	
Frequency Range	802.11b/g	2412 ~ 2462 MHz
	802.11n(HT20/HT40)	2412 ~ 2462 MHz
	802.11ax(HE20/HE40)	2412 ~ 2462 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac (VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ax (HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)	5150 ~ 5250 MHz
		5470 ~ 5725 MHz
	802.11a	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	802.11ax (HE20/HE40/HE80/HE160)	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
		6875 ~ 7125 MHz
	Bluetooth	2402 ~ 2480 MHz
	NFC	13.56 MHz
Antenna Type	WIFI	PIFA Antenna
	Bluetooth	PIFA Antenna
	NFC	Coil Antenna
Exposure Category	General Population/Uncontrolled Exposure	

Product Type	Mobile Device
--------------	---------------

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

For 300MHz to 6000Mhz

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.

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.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

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)

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	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

For 6000MHz to 10000Mhz

Frequencies above 300 kHz but at distances $R > \lambda/2\pi$, R is the antenna-person separation distance.
 λ =wavelength of transmitted signal.

Can calculate from the frequency of operation using $v=f*\lambda$

v =speed of light= $3*10^8$ m/s

f =frequency(Hz)

Primarily an MPE-based exclusion but also SAR-based where $\lambda/2\pi$ is $< 20\text{cm}$.

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.

5 ASSESSMENT RESULT

5.1 Output Power

Mode	Bluetooth-SISO-ANT0	Bluetooth-SISO-ANT1	/	/	/
Conducted Power (dBm)	11.28	11.74	/	/	/
Antenna Gain (dBi)	0.66	1.05	/	/	/
EIRP (dBm)	11.94	12.79	/	/	/
Mode	2.4G WIFI-SISO-ANT0	2.4G WIFI-SISO-ANT1	2.4G WIFI-MIMO-ANT0	2.4G WIFI-MIMO-ANT1	2.4G WIFI-MIMO
Conducted Power (dBm)	24.89	25.10	24.66	22.69	26.80
Antenna Gain (dBi)	0.66	1.05	0.66	1.05	3.87
EIRP (dBm)	25.55	26.15	25.32	23.74	30.67
Mode	5.2G WIFI-SISO-ANT0	5.2G WIFI-SISO-ANT1	5.2G WIFI-MIMO-ANT0	5.2G WIFI-MIMO-ANT1	5.2G WIFI-MIMO
Conducted Power (dBm)	20.24	20.32	18.72	17.86	21.31
Antenna Gain (dBi)	2.65	2.72	2.65	2.72	5.70
EIRP (dBm)	22.89	23.04	21.37	20.58	27.01
Mode	5.3G WIFI-SISO-ANT0	5.3G WIFI-SISO-ANT1	5.3G WIFI-MIMO-ANT0	5.3G WIFI-MIMO-ANT1	5.3G WIFI-MIMO
Conducted Power (dBm)	22.75	22.95	19.57	18.51	22.06
Antenna Gain (dBi)	2.39	2.21	2.39	2.21	5.31
EIRP (dBm)	25.14	25.16	21.96	20.72	27.37
Mode	5.6G WIFI-SISO-ANT0	5.6G WIFI-SISO-ANT1	5.6G WIFI-MIMO-ANT0	5.6G WIFI-MIMO-ANT1	5.6G WIFI-MIMO
Conducted Power (dBm)	23.73	23.39	21.21	20.57	23.90
Antenna Gain (dBi)	2.95	2.77	2.95	2.77	5.87
EIRP (dBm)	26.68	26.16	24.16	23.34	29.77
Mode	5.8G WIFI-SISO-ANT0	5.8G WIFI-SISO-ANT1	5.8G WIFI-MIMO-ANT0	5.8G WIFI-MIMO-ANT1	5.8G WIFI-MIMO
Conducted Power (dBm)	23.96	23.52	23.90	22.97	26.43
Antenna Gain (dBi)	2.92	2.75	2.92	2.75	5.85
EIRP (dBm)	26.88	26.27	26.82	25.72	32.28
Mode	6G WIFI-SISO-ANT0	6G WIFI-SISO-ANT1	6G WIFI-MIMO-ANT0	6G WIFI-MIMO-ANT1	6G WIFI-MIMO
Conducted Power (dBm)	12.95	12.22	9.77	9.35	9.39
Antenna Gain (dBi)	2.95	2.69	2.95	2.69	5.83
EIRP (dBm)	15.90	14.91	12.72	12.04	15.22
Mode	6.4G WIFI-SISO-ANT0	6.4G WIFI-SISO-ANT1	6.4G WIFI-MIMO-ANT0	6.4G WIFI-MIMO-ANT1	6.4G WIFI-MIMO

Conducted Power (dBm)	13.17	11.83	10.32	8.81	9.93
Antenna Gain (dBi)	2.96	0.44	2.96	0.44	4.80
EIRP (dBm)	16.13	12.27	13.28	9.25	14.73
Mode	6.5G WIFI-SISO-ANT0	6.5G WIFI-SISO-ANT1	6.5G WIFI-MIMO-ANT0	6.5G WIFI-MIMO-ANT1	6.5G WIFI-MIMO
Conducted Power (dBm)	13.06	12.87	10.23	9.74	9.7
Antenna Gain (dBi)	2.96	2.29	2.96	2.29	5.64
EIRP (dBm)	16.02	15.16	13.19	12.03	15.34
Mode	6.8G WIFI-SISO-ANT0	6.8G WIFI-SISO-ANT1	6.8G WIFI-MIMO-ANT0	6.8G WIFI-MIMO-ANT1	6.8G WIFI-MIMO
Conducted Power (dBm)	13.37	11.97	10.41	8.89	9.66
Antenna Gain (dBi)	2.20	2.92	2.20	2.92	5.58
EIRP (dBm)	15.57	14.89	12.61	11.81	15.24
Note: This report listed the worst case conducted power value, please refer to Ti-EE26030251-601, Ti-EE26030251-602, Ti-EE26030251-603, Ti-EE26030251-604, Ti-EE26030251-605 report for more details.					

Mode	NFC
Field Strength (dB μ V/m)	57.43
Conducted Power (dBm)	-29.67
Antenna Gain (dBi)	0
ERP (dBm)	-31.82

Note 1: This report listed the worst case conducted power value, please refer to Ti-EE26030251-402 report for more details.

Note 2: Add the appropriate maximum ground reflection factor to the EIRP level (6dB for frequencies ≤ 30 MHz, 4.7dB for frequencies between 30MHz and 1000MHz, inclusive and 0dB for frequencies > 1000 MHz).

Note 3: Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8 - \text{maximum ground reflection factor}$$

Note 4: For frequencies below 1000 MHz, only ERP (Effective Radiated Power) is used. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{ERP} - 20\log D + 104.8 - \text{maximum ground reflection factor}$$

where:

E=electric field strength in dB μ V/m

EIRP =equivalent isotropic radiated power in dBm

ERP = effective radiated power in dBm

D=specified measurement distance in meters

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Bluetooth-SISO-ANT0	[9.50, 11.50]	[10.16, 12.16]	[8.01, 10.01]
Bluetooth-SISO-ANT1	[10.00, 12.00]	[11.05, 13.05]	[8.90, 10.90]
2.4G WIFI-SISO-ANT0	[23.00, 25.00]	[23.66, 25.66]	[21.51, 23.51]
2.4G WIFI-SISO-ANT1	[23.50, 25.50]	[24.55, 26.55]	[22.40, 24.40]
2.4G WIFI-MIMO-ANT0	[23.00, 25.00]	[23.66, 25.66]	[21.51, 23.51]
2.4G WIFI-MIMO-ANT1	[21.00, 23.00]	[22.05, 24.05]	[19.90, 21.90]
2.4G WIFI-MIMO	[25.00, 27.00]	[28.87, 30.87]	[26.72, 28.72]
5.2G WIFI-SISO-ANT0	[18.50, 20.50]	[21.15, 23.15]	[19.00, 21.00]
5.2G WIFI-SISO-ANT1	[18.50, 20.50]	[21.22, 23.22]	[19.07, 21.07]
5.2G WIFI-MIMO-ANT0	[17.00, 19.00]	[19.65, 21.65]	[17.50, 19.50]
5.2G WIFI-MIMO-ANT1	[16.00, 18.00]	[18.72, 20.72]	[16.57, 18.57]
5.2G WIFI-MIMO	[19.50, 21.50]	[25.20, 27.20]	[23.05, 25.05]
5.3G WIFI-SISO-ANT0	[21.00, 23.00]	[23.39, 25.39]	[21.24, 23.24]
5.3G WIFI-SISO-ANT1	[21.00, 23.00]	[23.21, 25.21]	[21.06, 23.06]
5.3G WIFI-MIMO-ANT0	[18.00, 20.00]	[20.39, 22.39]	[18.24, 20.24]
5.3G WIFI-MIMO-ANT1	[17.00, 19.00]	[19.21, 21.21]	[17.06, 19.06]
5.3G WIFI-MIMO	[20.50, 22.50]	[25.81, 27.81]	[23.66, 25.66]
5.6G WIFI-SISO-ANT0	[22.00, 24.00]	[24.95, 26.95]	[22.80, 24.80]
5.6G WIFI-SISO-ANT1	[21.50, 23.50]	[24.27, 26.27]	[22.12, 24.12]
5.6G WIFI-MIMO-ANT0	[19.50, 21.50]	[22.45, 24.45]	[20.30, 22.30]
5.6G WIFI-MIMO-ANT1	[19.00, 21.00]	[21.77, 23.77]	[19.62, 21.62]
5.6G WIFI-MIMO	[22.00, 24.00]	[27.87, 29.87]	[25.72, 27.72]
5.8G WIFI-SISO-ANT0	[22.00, 24.00]	[24.92, 26.92]	[22.77, 24.77]
5.8G WIFI-SISO-ANT1	[22.00, 24.00]	[24.75, 26.75]	[22.60, 24.60]
5.8G WIFI-MIMO-ANT0	[22.00, 24.00]	[24.92, 26.92]	[22.77, 24.77]
5.8G WIFI-MIMO-ANT1	[21.00, 23.00]	[23.75, 25.75]	[21.60, 23.60]
5.8G WIFI-MIMO	[24.50, 26.50]	[30.35, 32.35]	[28.20, 30.20]
6G WIFI-SISO-ANT0	[11.00, 13.00]	[13.95, 15.95]	[11.80, 13.80]
6G WIFI-SISO-ANT1	[10.50, 12.50]	[13.19, 15.19]	[11.04, 13.04]
6G WIFI-MIMO-ANT0	[8.00, 10.00]	[10.95, 12.95]	[8.80, 10.80]
6G WIFI-MIMO-ANT1	[7.50, 9.50]	[10.19, 12.19]	[8.04, 10.04]
6G WIFI-MIMO	[7.50, 9.50]	[13.33, 15.33]	[11.18, 13.18]
6.4G WIFI-SISO-ANT0	[11.50, 13.50]	[14.46, 16.46]	[12.31, 14.31]
6.4G WIFI-SISO-ANT1	[10.00, 12.00]	[10.44, 12.44]	[8.29, 10.29]
6.4G WIFI-MIMO-ANT0	[8.50, 10.50]	[11.46, 13.46]	[9.31, 11.31]
6.4G WIFI-MIMO-ANT1	[7.00, 9.00]	[7.44, 9.44]	[5.29, 7.29]

6.4G WIFI-MIMO	[8.00, 10.00]	[12.80, 14.80]	[10.65, 12.65]
6.5G WIFI-SISO-ANT0	[11.50, 13.50]	[14.46, 16.46]	[12.31, 14.31]
6.5G WIFI-SISO-ANT1	[11.00, 13.00]	[13.29, 15.29]	[11.14, 13.14]
6.5G WIFI-MIMO-ANT0	[8.50, 10.50]	[11.46, 13.46]	[9.31, 11.31]
6.5G WIFI-MIMO-ANT1	[8.00, 10.00]	[10.29, 12.29]	[8.14, 10.14]
6.5G WIFI-MIMO	[8.00, 10.00]	[13.64, 15.64]	[11.49, 13.49]
6.8G WIFI-SISO-ANT0	[11.50, 13.50]	[13.70, 15.70]	[11.55, 13.55]
6.8G WIFI-SISO-ANT1	[10.00, 12.00]	[12.92, 14.92]	[10.77, 12.77]
6.8G WIFI-MIMO-ANT0	[8.50, 10.50]	[10.70, 12.70]	[8.55, 10.55]
6.8G WIFI-MIMO-ANT1	[7.00, 9.00]	[9.92, 11.92]	[7.77, 9.77]
6.8G WIFI-MIMO	[8.00, 10.00]	[13.58, 15.58]	[11.43, 13.43]
NFC	[-31.50, -29.50]	/	[-33.65, -31.65]

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

For 300MHz to 6000MHz

Evolution Mode	Maximum Power (dBm)	Maximum Power (mw)	Distance (cm)	Threshold Power (mW)	Power / Limit	Verdict
Bluetooth-SISO-ANT0	11.50	14.13	20	3060.00	0.005	Pass
Bluetooth-SISO-ANT1	12.00	15.85	20	3060.00	0.005	Pass
2.4G WIFI-SISO-ANT0	25.00	316.23	20	3060.00	0.103	Pass
2.4G WIFI-SISO-ANT1	25.50	354.81	20	3060.00	0.116	Pass
2.4G WIFI-MIMO-ANT0	25.00	316.23	20	3060.00	0.103	Pass
2.4G WIFI-MIMO-ANT1	23.00	199.53	20	3060.00	0.065	Pass
2.4G WIFI-MIMO	28.72	744.73	20	3060.00	0.243	Pass
5.2G WIFI-SISO-ANT0	21.00	125.89	20	3060.00	0.041	Pass
5.2G WIFI-SISO-ANT1	21.07	127.94	20	3060.00	0.042	Pass
5.2G WIFI-MIMO-ANT0	19.50	89.13	20	3060.00	0.029	Pass
5.2G WIFI-MIMO-ANT1	18.57	71.94	20	3060.00	0.024	Pass
5.2G WIFI-MIMO	25.05	319.89	20	3060.00	0.105	Pass
5.3G WIFI-SISO-ANT0	23.24	210.86	20	3060.00	0.069	Pass
5.3G WIFI-SISO-ANT1	23.06	202.30	20	3060.00	0.066	Pass
5.3G WIFI-MIMO-ANT0	20.24	105.68	20	3060.00	0.035	Pass
5.3G WIFI-MIMO-ANT1	19.06	80.54	20	3060.00	0.026	Pass
5.3G WIFI-MIMO	25.66	368.13	20	3060.00	0.120	Pass
5.6G WIFI-SISO-ANT0	24.80	302.00	20	3060.00	0.099	Pass
5.6G WIFI-SISO-ANT1	24.12	258.23	20	3060.00	0.084	Pass
5.6G WIFI-MIMO-ANT0	22.30	169.82	20	3060.00	0.055	Pass
5.6G WIFI-MIMO-ANT1	21.62	145.21	20	3060.00	0.047	Pass
5.6G WIFI-MIMO	27.72	591.56	20	3060.00	0.193	Pass
5.8G WIFI-SISO-ANT0	24.77	299.92	20	3060.00	0.098	Pass
5.8G WIFI-SISO-ANT1	24.60	288.40	20	3060.00	0.094	Pass
5.8G WIFI-MIMO-ANT0	24.77	299.92	20	3060.00	0.098	Pass
5.8G WIFI-MIMO-ANT1	23.60	229.09	20	3060.00	0.075	Pass
5.8G WIFI-MIMO	30.20	1047.13	20	3060.00	0.342	Pass
NFC	-29.50	0.01	20	39.00	0.001	Pass

Note: The power threshold of NFC refers to the power threshold that the frequency is 300MHz and the separation distance is less than 5mm.

For 6000MHz to 10000MHz

Evolution Mode	Distance (cm)	$\lambda / 2 \pi$ (m)	$\lambda / 2 \pi$ (cm)	R> $\lambda / 2 \pi$
6G WIFI-SISO-ANT0	20	0.007	0.700	Yes
6G WIFI-SISO-ANT1	20	0.007	0.700	Yes
6G WIFI-MIMO-ANT0	20	0.007	0.700	Yes
6G WIFI-MIMO-ANT1	20	0.007	0.700	Yes
6G WIFI-MIMO	20	0.007	0.700	Yes
6.4G WIFI-SISO-ANT0	20	0.007	0.700	Yes
6.4G WIFI-SISO-ANT1	20	0.007	0.700	Yes
6.4G WIFI-MIMO-ANT0	20	0.007	0.700	Yes
6.4G WIFI-MIMO-ANT1	20	0.007	0.700	Yes
6.4G WIFI-MIMO	20	0.007	0.700	Yes
6.5G WIFI-SISO-ANT0	20	0.007	0.700	Yes
6.5G WIFI-SISO-ANT1	20	0.007	0.700	Yes
6.5G WIFI-MIMO-ANT0	20	0.007	0.700	Yes
6.5G WIFI-MIMO-ANT1	20	0.007	0.700	Yes
6.5G WIFI-MIMO	20	0.007	0.700	Yes
6.8G WIFI-SISO-ANT0	20	0.007	0.700	Yes
6.8G WIFI-SISO-ANT1	20	0.007	0.700	Yes
6.8G WIFI-MIMO-ANT0	20	0.007	0.700	Yes
6.8G WIFI-MIMO-ANT1	20	0.007	0.700	Yes
6.8G WIFI-MIMO	20	0.007	0.700	Yes

Evolution Mode	Threshold ERP (W)	ERP (dBm)	ERP (W)	P/Plimit	Verdict
6G WIFI-SISO-ANT0	76.800	13.8	0.024	0.031	Pass
6G WIFI-SISO-ANT1	76.800	13.04	0.020	0.026	Pass
6G WIFI-MIMO-ANT0	76.800	10.8	0.012	0.016	Pass
6G WIFI-MIMO-ANT1	76.800	10.04	0.010	0.013	Pass
6G WIFI-MIMO	76.800	13.18	0.021	0.027	Pass
6.4G WIFI-SISO-ANT0	76.800	14.31	0.027	0.035	Pass
6.4G WIFI-SISO-ANT1	76.800	10.29	0.011	0.014	Pass
6.4G WIFI-MIMO-ANT0	76.800	11.31	0.014	0.018	Pass
6.4G WIFI-MIMO-ANT1	76.800	7.29	0.005	0.007	Pass
6.4G WIFI-MIMO	76.800	12.65	0.018	0.023	Pass
6.5G WIFI-SISO-ANT0	76.800	14.31	0.027	0.035	Pass
6.5G WIFI-SISO-ANT1	76.800	13.14	0.021	0.027	Pass
6.5G WIFI-MIMO-ANT0	76.800	11.31	0.014	0.018	Pass
6.5G WIFI-MIMO-ANT1	76.800	10.14	0.010	0.013	Pass
6.5G WIFI-MIMO	76.800	13.49	0.022	0.029	Pass
6.8G WIFI-SISO-ANT0	76.800	13.55	0.023	0.030	Pass
6.8G WIFI-SISO-ANT1	76.800	12.77	0.019	0.025	Pass
6.8G WIFI-MIMO-ANT0	76.800	10.55	0.011	0.014	Pass
6.8G WIFI-MIMO-ANT1	76.800	9.77	0.009	0.012	Pass
6.8G WIFI-MIMO	76.800	13.43	0.022	0.029	Pass

5.4 Collocated Power Calculation

Evolution Mode	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of Bluetooth + 2.4G WIFI + 5G WIFI + 6G WIFI + NFC	Verdict
Bluetooth	0.005	0.626	Pass
2.4G WIFI	0.243		
5G WIFI	0.342		
6G WIFI	0.035		
NFC	0.001		

Note:

1. $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for Bluetooth + 2.4G WIFI + 5G WIFI + 6G WIFI + NFC.
2. Both of the 2.4GHz/5GHz/6GHz/13.56MHz can transmit simultaneously, the formula of calculated the Power is

$$\text{CP1} / \text{LP1} + \text{CP2} / \text{LP2} + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
3. The worst-case situation is 0.626, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. The DUT work frequency range used is 2402 MHz ~ 2480 MHz, 2412 MHz ~ 2462 MHz, 5725 MHz ~ 5850 MHz, 6425 MHz ~ 6525 MHz and 13.56 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--