

Report No.: SUCR240400012708

Rev.: 01 Page: 1 of 11

TEST REPORT

Application No.: SUCR2404000127MO

Applicant: TP-Link Systems Inc.

Address of Applicant: 10 Mauchly, Irvine, CA 92618

Manufacturer: TP-Link Systems Inc.

Address of Manufacturer: 10 Mauchly, Irvine, CA 92618

EUT Description: 5G Mobile Wi-Fi

Model No.: M8550
Trade Mark: tp-link

FCC ID: 2BH7FM8550

Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2024/04/23 **Date of Issue:** 2024/09/02

Test Result: PASS*

Authorized Signature:

Coud +

Cloud Peng Technical Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.spx. Actention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) served and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 t (86-512) 62992980

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SUCR240400012708

Rev.: 01 Page: 2 of 11

1 Version

Revision Record							
Version Chapter Date Modifier R							
01		2024/09/02		Original			

Prepared By	(Nick Hu) / Test Engineer
Checked By	Stone Gu) / Reviewer



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Read, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Ploti Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州广区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 t (86-512) 62992980



Report No.: SUCR240400012708

Rev.: 01 Page: 3 of 11

Contents

1 \	Version	2
	General Information	
2.2	J	4
2.3 3 F	3 General Description of EUT RF Exposure Evaluation	
3	1 RF Exposure Compliance Requirement	7
3	3.1.2 Test Procedure	8
3	3.1.4 Exposure calculations for multiple sources	11



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printe overleaf, available on request or accessible at https://www.sgs.com/en/Ferms-and-Conditions.aspx.aaf, for electronic format documents subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com/en/Ferms-and-Conditions/Ferms-a-Document.aspx.adf. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of intervention only and within the limitst Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to transaction from exercising all their rights and obligations under the transaction document rights and obligations under the transaction document of the success of the success of the document cannot be reproduce except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Read, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Ploti Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州广区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 t (86-512) 62992980



Report No.: SUCR240400012708

Rev.: 01 Page: 4 of 11

2 General Information

2.1 Client Information

Applicant:	TP-Link Systems Inc.
Address of Applicant:	10 Mauchly, Irvine, CA 92618
Manufacturer:	TP-Link Systems Inc.
Address of Manufacturer:	10 Mauchly, Irvine, CA 92618

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

 ${\tt SGS-CSTC\ STANDARDS\ TECHNICAL\ SERVICES\ (SUZHOU)\ CO.,\ LTD.\ has\ been\ recognized\ as\ an}$

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





Report No.: SUCR240400012708

Rev.: 01 Page: 5 of 11

2.3 General Description of EUT

EUT Description:	5G Mobile Wi-Fi								
Model No.:	M8550								
Trade Mark:	tp-link								
Hardware Version:	V1.0								
Software Version:	V1.0								
Antenna Type:	Internal Antenna								
Power Class:	Class 2: LTE Band 41; LT	Class 2: LTE Band 41; LTE CA_41C; NR Band n41; NR Band n77;							
Fower Class.	Class 1.5: UL MIMO NR E	Band n41; UL M	/IIMO NR Band n77;						
Feature:	UL 2*2 MIMO:								
T Gataro.	NR Band n41; NR Band r		1						
	LTE Band 2:	1.72dBi	LTE Band 4:	1.56dBi					
	LTE Band 5:	-0.98dBi	LTE Band 7:	1.98dBi					
	LTE Band 12:	2.6dBi	LTE Band 13:	2.9dBi					
	LTE Band 14:	2.85dBi	LTE Band 25:	1.72dBi					
	LTE Band 26:	0.46dBi LTE Band 30:		0.89dBi					
	LTE Band 41:	2.27dBi	LTE Band 48:	0.98dBi					
	LTE Band 66:	1.56dBi	LTE Band 71:	1.95dBi					
	LTE CA_2C:	1.72dBi	LTE CA_5B:	-0.98dBi					
	LTE CA_7C:	1.98dBi	LTE CA_41C:	2.27dBi					
	LTE CA_48C:	0.98dBi	LTE CA_66B:	1.56dBi					
	LTE CA_66C:	1.56dBi							
Antenna Gain:	NR Band n2:	1.72dBi	NR Band n5:	-0.98dBi					
7 anoma Gam	NR Band n12:	2.6dBi	NR Band n14:	2.85dBi					
	NR Band n25:	1.72dBi	NR Band n30:	0.89dBi					
	NR Band n41	2.27dBi	NR Band n48	0.98dBi					
	(MIMO):	2.27 UDI	(MIMO):	0.90ubi					
	NR Band n66:	1.56dBi	NR Band n71:	1.95dBi					
	NR Band n77	2.11dBi							
	(MIMO):	2.11401							
	2.4G WIFI:	3.98dBi(Ant1); 3.98dBi(Ant2);							
	5150 MHz to 5250 MHz:	3.96dBi(Ant1); 3.96dBi(Ant2);						
	5250 MHz to 5350 MHz:	3.95dBi(Ant1); 3.95dBi(Ant2);						
	5470 MHz to 5725 MHz:	3.9dBi(Ant1);	3.9dBi(Ant2);						
	5725 MHz to 5850 MHz:	Hz to 5850 MHz: 3.93dBi(Ant1); 3.93dBi(Ant2);							



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indeminification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or amail: CMP Descheck@ass.com.

South of No. 6 Paint, No. 1, Runshang Road, Sudhou Industrial Park, Suzhou Area, China (Jiangsu) Pkot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜廊1号的6号厂房南部 邮编: 215000

t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



Report No.: SUCR240400012708

Rev.: 01 Page: 6 of 11

5925 MHz to 6425 MHz: 3.97dBi(Ant1); 3.97dBi(Ant2); 6425 MHz to 6525 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2); 6525 MHz to 6875 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2); 6875 MHz to 7125 MHz: 4.2dBi(Ant1); 4.2dBi(Ant2);

LTE CA:

LTE CA_2C; LTE CA_5B; LTE CA_7C; LTE CA_41C;

LTE CA_48C; LTE CA_66C; LTE CA_66B;

ENDC:

DC 5A n2A;DC 14A n2A;DC 30A n2A;DC 12A n2A;DC 66A n2A;

DC_71A_n2A;DC_13A_n2A;DC_7A_n2A;DC_4A_n2A;DC_13A_n5A;

DC 2A n5A;DC 12A n5A;DC 30A n5A;DC 66A n5A;DC 7A n5A;

DC 48A n5A;DC 5A n7A;DC 5A n7A;DC 66A n7A;DC 71A n7A;

DC_13A_n7A;DC_2A_n7A;DC_4A_n7A;DC_2A_n12A;DC_2A_n12A;

DC_2A_n12A;DC_7A_n12A;DC_5A_n12A;DC_48A_n12A;DC_2A_n14A;

DC_30A_n14A;DC_66A_n14A;DC_66A_n25A;DC_12A_n25A;DC_48A_n25A;

DC_7A_n25A;DC_71A_n25A;DC_5A_n25A;DC_5A_n25A;DC_5A_n25A;

DC_2A_n30A;DC_5A_n30A;DC_12A_n30A;DC_14A_n30A;DC_66A_n30A;

DC 2A n41A;DC 66A n41A;DC 25A n41A;DC 26A n41A;DC 5A n41A;

DC_4A_n41A;DC_12A_n41A;DC_12A_n41A;DC_12A_n41A;

DC_71A_n41A;DC_2A_n48A;DC_5A_n48A;DC_13A_n48A;DC_66A_n48A;

DC 66A n48A;DC 2A n66A;DC 5A n66A;DC 5A n66A;DC 14A n66A;

DC 30A n66A;DC 71A n66A;DC 48A n66A;DC 48A n66A;DC 2A n71A;

DC_2A_n71A;DC_5A_n71A;DC_7A_n71A;DC_48A_n71A;DC_48A_n71A;

DC_7A_n77A;DC_7A_n77A;DC_7A_n77A;DC_13A_n77A;DC_66A_n77A;

DC_12A_n77A;DC_14A_n77A;DC_30A_n77A;DC_25A_n77A;DC_71A_n77A;

Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/Terms-en/Comments.and. for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en/Comment.and.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Pfart, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

000 t (86–512) 62992980 000 t (86–512) 62992980



Report No.: SUCR240400012708

Rev.: 7 of 11 Page:

3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
0.3-3.0	614	1.63	*(100)	6						
3.0-30	1842/f	4.89/f	*(900/f2)	6						
30-300	61.4	0.163	1.0	6						
300-1500	1	1	f/300	6						
1500-100,000	1	1	5	6						
(B) Limits for General P	opulation/Uncontrolled I	Exposure							
0.3-1.34	614	1.63	*(100)	30						
1.34-30	824/f	2.19/f	*(180/f2)	30						
30-300	27.5	0.073	0.2	30						
300-1500	/	1	f/1500	30						
1500-100,000	1	1	1.0	30						

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R²)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 t (86-512) 62992980

⁼Plane-wave equivalent power density



Report No.: SUCR240400012708

Rev.: 01 Page: 8 of 11

3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Distance R (cm)	Result	Ratio
LTE Band 2/CA_2C	1850.7	24	1.72	25.72	373.25	3060	20	Pass	0.1220
LTE Band 4	1710.7	24	1.56	25.56	359.75	3060	20	Pass	0.12
LTE Band 5/CA_5B	824.7	24.5	-0.98	23.52	224.91	1682	20	Pass	0.1337
LTE Band 7/CA_7C	2502.5	22.5	1.98	24.48	280.54	3060	20	Pass	0.0917
LTE Band 12	699.7	24.5	2.6	27.1	512.86	1427	20	Pass	0.3593
LTE Band 13	779.5	24.5	2.9	27.4	549.54	1590	20	Pass	0.3456
LTE Band 14	790.5	24.5	2.85	27.35	543.25	1613	20	Pass	0.3369
LTE Band 25	1850.7	24	1.72	25.72	373.25	3060	20	Pass	0.1220
LTE Band 26(814-824)	814.7	24.5	0.46	24.96	313.33	1662	20	Pass	0.1885
LTE Band 26(824-849)	824.7	24.5	0.46	24.96	313.33	1682	20	Pass	0.1862
LTE Band 30	2307.5	23	0.89	23.89	244.91	3060	20	Pass	0.0800
LTE Band 41/CA_41C	2498.5	23.5	2.27	25.77	377.57	3060	20	Pass	0.1234
LTE Band 41/CA_41C (PC2)	2498.5	25.5	2.27	27.77	598.41	3060	20	Pass	0.1956
LTE Band 48/CA_48C	3552.5	22	0.98	22.98	198.61	3060	20	Pass	0.0649
LTE Band 66/CA_66C/CA_66B	1710.7	24	1.56	25.56	359.75	3060	20	Pass	0.1176
LTE Band 71	665.5	24.5	1.95	26.45	441.57	1358	20	Pass	0.3253
NR Band n2	1852.5	24	1.72	25.72	373.25	3060	20	Pass	0.1220
NR Band n5	826.5	24.5	-0.98	23.52	224.91	1686	20	Pass	0.1334
NR Band n12	701.5	24.5	2.6	27.1	512.86	1431	20	Pass	0.3584
NR Band n14	790.5	24.5	2.85	27.35	543.25	1613	20	Pass	0.3369
NR Band n25	1852.5	24	1.72	25.72	373.25	3060	20	Pass	0.1220
NR Band n30	2307.5	23.5	0.89	24.39	274.79	3060	20	Pass	0.0898
NR Band n41 (PC2)	2501.01	26.5	2.27	28.77	753.36	3060	20	Pass	0.2462
NR Band n41 (MIMO)	2501.01	29	2.27	31.27	1339.68	3060	20	Pass	0.4378
NR Band n48	3555	22	0.98	22.98	198.61	3060	20	Pass	0.0649



Inless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed verleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions-and-Conditions-and-Conditi

South of No. 6 Pfart, No. 1, Runsheng Read, Suchou Industrial Park, Suchou Area, China (langsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 t (86-512) 62992980



Report No.: SUCR240400012708

Rev.: 01 Page: 9 of 11

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Distance R (cm)	Result	Ratio
NR Band n48 (MIMO)	3555	22	0.98	22.98	198.61	3060	20	Pass	0.0649
NR Band n66	1712.5	24	1.56	25.56	359.75	3060	20	Pass	0.1176
NR Band n71	665.5	24.5	1.95	26.45	441.57	1358	20	Pass	0.3253
NR Band n77(3450-3550) (PC2)	3455.01	25.5	2.11	27.61	576.77	3060	20	Pass	0.1885
NR Band n77(3450-3550) (MIMO)	3455.01	27.5	2.11	29.61	914.11	3060	20	Pass	0.2987
NR Band n77(3700-3980) (PC2)	3705	25.5	2.11	27.61	576.77	3060	20	Pass	0.1885
NR Band n77(3700-3980) (MIMO)	3705	27.5	2.11	29.61	914.11	3060	20	Pass	0.2987
Wifi2.4GHz	2412.0	22	3.98	25.98	396.28	3060	20	Pass	0.1295
Wifi 5GHz B1	5180.0	22	3.96	25.96	394.46	3060	20	Pass	0.1289
Wifi 5GHz B2	5260.0	22	3.95	25.95	393.55	3060	20	Pass	0.1286
Wifi 5GHz B3	5500.0	22	3.9	25.9	389.05	3060	20	Pass	0.1271
Wifi 5GHz B4	5745.0	22	3.93	25.93	391.74	3060	20	Pass	0.1280
Wifi 6E B1	5955.0	20	3.97	23.97	249.46	3060	20	Pass	0.0815
Wifi 6E B2	6435.0	20	3.92	23.92	246.60	3060	20	Pass	0.0806
Wifi 6E B3	6535.0	20	3.92	23.92	246.60	3060	20	Pass	0.0806
Wifi 6E B4	6895.0	20	4.2	24.2	263.03	3060	20	Pass	0.0860



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printe overleaf, available on request or accessible at http://www.sgs.com/en/Terms.and-Conditions.apx and, for electronic formard documents subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduce except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the contents or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runshang Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Ploti Fiee Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州广区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 t (86-512) 62992980



Report No.: SUCR240400012708

Rev.: 01 Page: 10 of 11

Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^{n} \frac{S_{E_{i}}(dutyfactor)}{MPE_{E_{i}}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation Therefore, the worst-case(DC_12A_n41A) situation is 0.3593+0.4378=0.7971, which is less than "1", this confirmed that the device comply with MPE limit.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service prints overleaf, available on request or accessible at http://www.sgs.com/en/Terms.and-Conditions.apx and, for electronic forms documents subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduce except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industria Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



Report No.: SUCR240400012708

Rev.: 11 of 11 Page:

3.1.4 Exposure calculations for multiple sources

To ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^{n} \frac{S_i}{MPE_i} \le 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN+ WiFi 2.4G + WiFi 5G
2	WWAN+ WiFi 2.4G + WiFi 6E

No.	Mode	Max EIRP (mW)	Limit (mW)	Result Ratio	Total Ratio	Limit	Result
	NR Band n41 (MIMO)*	1339.68	3060	0.4378			
1	WiFi 2.4G	396.28	3060	0.1295	0.6962	1.0000	Pass
	WiFi 5G	394.46	3060	0.1289			
	NR Band n41 (MIMO)*	1339.68	3060	0.4378			
2	WiFi 2.4G	396.28	3060	0.1295	0.6488	1.0000	Pass
	WiFi 6E	249.46	3060	0.0815			

Remark*: This WWAN Band was recalculated on worst Band.

---End of Report---



South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国。苏州。中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 t (86-512) 62992980