

Report No.: SUCR240400011501

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TEST REPORT

Application No.: SUCR2404000115MO

Applicant: NETPRISMA INC.

Address of Applicant: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

Manufacturer: NETPRISMA INC.

Address of Manufacturer: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

EUT Description: LTE-A Cat 6 M.2 Module

Model No.: LCUK54-WRD

Trade Mark: Vrileg

FCC ID: 2BEY3LCUK54WRDA Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2024/04/16(for report SUCR240400011302) 2024/08/29(for report SUCR240400011501)

Date of Issue: 2024/08/29

Test Result: PASS*

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

Authorized Signature:

Cloud Peng

Cloud Peng Technical Manager



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1 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2024/08/29		Original		

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



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Remark:

This test report (Report No.: SUCR240400011501 issue on 2024/08/29) is based on the original test report (Report No.: SUCR240400011302 issue on 2024/04/16).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Therefore in this report all items do not need to recalculated and all test data in this report are based on the previous report with report number SUCR240400011302 issue on 2024/04/16.



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2 General Information

2.1 Client Information

Applicant:	NETPRISMA INC.
Address of Applicant:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES
Manufacturer:	NETPRISMA INC.
Address of Manufacturer:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

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





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2.3 General Description of EUT

EUT Description:	LTE-A Cat 6 M.2 M	lodule							
Model No.:	LCUK54-WRD	LCUK54-WRD							
Trade Mark:	Vrileg	Vrileg							
Hardware Version:	R1.0	₹1.0							
Software Version:	LCUK54WRDBL01	CUK54WRDBL0101							
Power Supply:	5V								
Antenna Type:	PIFA Antenna								
	WCDMA Band II:	3.87dBi (NPANT001)	WCDMA Band IV:	3.91dBi (NPANT001)					
	WCDMA Band V:	3.32dBi (NPANT002)							
	LTE Band 2:	3.87dBi (NPANT001)	LTE Band 4:	3.91dBi (NPANT001)					
	LTE Band 5:	3.32dBi (NPANT002)	LTE Band 7:	3.16dBi (NPANT002)					
	LTE Band 12:	3.19dBi (NPANT004)	LTE Band 13:	3.28dBi (NPANT002)					
Antenna Gain:	LTE Band 14:	3.25dBi (NPANT002)	LTE Band 17:	3.19dBi (NPANT004)					
	LTE Band 25:	3.87dBi (NPANT001)	LTE Band 26:	3.32dBi (NPANT002)					
	LTE Band 30:	0.98dBi (NPANT003)	LTE Band 38:	3.07dBi (NPANT002)					
	LTE Band 41:	3.16dBi (NPANT002)	LTE Band 66:	3.91dBi (NPANT001)					
	LTE Band 71:	3.07dBi (NPANT001)							
	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.



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	field strength Magnetic field strength (V/m) (A/m)		Averaging time (minutes)	
	(A) Limits for Occup	ational/Controlled Expo	sures		
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.



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⁼Plane-wave equivalent power density



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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.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)		conclusion
WCDMA Band II	1852.4	3.87	25.00	28.87	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
WCDMA Band IV	1712.4	3.91	25.00	28.91	30.00	0.1548	1.0000	5.00	12.01	5.00	Pass
WCDMA Band V	826.4	3.32	25.00	26.17	38.45	0.1351	0.5509	15.60	9.42	9.42	Pass
LTE Band 2	1850.7	3.87	24.50	28.37	33.00	0.1367	1.0000	8.50	12.51	8.50	Pass
LTE Band 4	1710.7	3.91	24.50	28.41	30.00	0.1380	1.0000	5.50	12.51	5.50	Pass
LTE Band 5	824.7	3.32	24.50	25.67	38.45	0.1204	0.5498	16.10	9.91	9.91	Pass
LTE Band 7	2502.5	3.16	24.00	27.16	33.00	0.1034	1.0000	9.00	13.01	9.00	Pass
LTE Band 12	699.7	3.19	24.50	25.54	34.77	0.1169	0.4665	12.42	9.20	9.20	Pass
LTE Band 13	779.5	3.28	24.50	25.63	34.77	0.1193	0.5197	12.42	9.66	9.66	Pass
LTE Band 14	790.5	3.25	24.50	25.60	34.77	0.1185	0.5270	12.42	9.73	9.73	Pass
LTE Band 17	706.5	3.19	24.50	25.54	34.77	0.1169	0.4710	12.42	9.24	9.24	Pass
LTE Band 25	1850.7	3.87	24.50	28.37	33.00	0.1367	1.0000	8.50	12.51	8.50	Pass
LTE Band 26 (814-824)	814.7	3.32	24.50	25.67	NA	0.1204	0.5431	NA	9.86	9.86	Pass
LTE Band 26 (824-849)	824.7	3.32	24.50	25.67	38.45	0.1204	0.5498	16.10	9.91	9.91	Pass
LTE Band 30	2307.5	0.98	23.00	23.98	23.98	0.0497	1.0000	0.98	14.01	0.98	Pass
LTE Band 38	2572.5	3.07	24.00	27.07	33.00	0.1013	1.0000	9.00	13.01	9.00	Pass
LTE Band 41	2498.5	3.16	24.00	27.16	33.00	0.1034	1.0000	9.00	13.01	9.00	Pass
LTE Band 66	1710.7	3.91	24.50	28.41	30.00	0.1380	1.0000	5.50	12.51	5.50	Pass
LTE Band 71	665.5	3.07	24.50	25.42	34.77	0.1137	0.4437	12.42	8.98	8.98	Pass
Bluetooth	2402.0	5.00	23.00	28.00	N/A	0.1255	1.0000	N/A	N/A	N/A	N/A
WLAN2.4GHz	2412.0	5.00	23.00	28.00	N/A	0.1255	1.0000	N/A	N/A	N/A	N/A
WLAN5GHz	5180.0	5.00	23.00	28.00	N/A	0.1255	1.0000	N/A	N/A	N/A	N/A

Note:

- 1.This MPE analysis is applicable to any collocated transmitters with transmit power for WLAN is less than or equal to 28dBm and for Bluetooth is less than or equal to 28dBm.
- 2.A maximum antenna gain of 5dBi for WLAN/BT has been assumed for all collocated antennas.



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3.1.4 Exposure calculations for multiple sources

In order 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 + Bluetooth	

No.	Mode	Power Density (mW/cm²)	MPE Limit (mW/cm ²)	Result Ratio	Total Ratio	Limit	Result
	LTE Band 71*	0.1137	0.4437	0.2563		1.0000	Pass
1	Bluetooth	0.1255	1.0000	0.1255	0 6330		
	WiFi 2.4G	0.1255	1.0000	0.1255	0.6328		
	WiFi 5G	0.1255	1.0000	0.1255			

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

Note: Considering the WWAN module collocation with the WLAN and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant.

---End of Report---



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