



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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TEST REPORT

Application No.: SUCR2505000400MO
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: 5G Sub-6 GHz LGA Module
Model No.: HMT89-LD
FCC ID: 2BEY3HMT89LDA
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: May 19, 2025
Date of Issue: June 25, 2025

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

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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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
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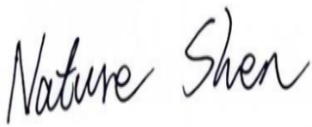


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Version

Revision Record			
Version	Description	Date	Remark
00	Original	June 25, 2025	/

Authorized for issue by:				
Tested By				
		Nature Shen / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



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1 General Information

1.1 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

1.2 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**

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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1.3 General Description of EUT

Hardware Version:	R1.0			
Software Version:	HMT89LDBL2201_OCPU			
Feature:	UL 2*2 MIMO: NR Band n38; NR Band n41; NR Band n48;NR Band n77; NR Band n78;NR Band n2; NR Band n5; NR Band n25; NR Band n66; NR Band n70; NR Band n71;			
HPUE Power Class:	Class 1.5: NR Band n41 MIMO; NR Band n77 MIMO; NR Band n78 MIMO Class 2: LTE Band 38;LTE Band 41; NR Band n38; NR Band n41; NR Band n77; NR Band n78			
Antenna Type:	☒ External, ☐ Integrated			
Antenna Gain:	LTE Band 2:	2dBi	LTE Band 4:	3.2dBi
	LTE Band 5:	1dBi	LTE Band 7:	2.6dBi
	LTE Band 12:	0.2dBi	LTE Band 13:	0.2dBi
	LTE Band 14:	0.2dBi	LTE Band 17:	0.2dBi
	LTE Band 25:	2dBi	LTE Band 26:	1dBi
	LTE Band 30:	-3.06dBi	LTE Band 38:	2.6dBi
	LTE Band 41:	2.6dBi	LTE Band 42:	3.1dBi
	LTE Band 43:	3.1dBi	LTE Band 48:	-4.29dBi
	LTE Band 66:	3.2dBi	LTE Band 70:	2dBi
	LTE Band 71:	-0.5dBi	LTE CA_5B:	1dBi
	LTE CA_7C:	2.6dBi	LTE CA_38C:	2.6dBi
	LTE CA_41C:	2.6dBi	LTE CA_42C:	3.1dBi
	LTE CA_48C:	-4.29dBi	LTE CA_66B:	3.2dBi
	LTE CA_66C:	3.2dBi	NR Band n2:	2dBi
	NR Band n5:	1dBi	NR Band n7:	2.6dBi
	NR Band n12:	0.2dBi	NR Band n13:	0.2dBi
	NR Band n14:	0.2dBi	NR Band n25:	2dBi
	NR Band n26:	1dBi	NR Band n30:	-3.06dBi
	NR Band n38:	2.6dBi	NR Band n41:	2.6dBi
	NR Band n48:	-4.29dBi	NR Band n66:	3.2dBi
	NR Band n70:	2dBi	NR Band n71:	-0.5dBi
	NR Band n77:	-3.48dBi	NR Band n78:	-4.11dBi
	LTE CA: CA_5B; CA_7C; CA_38C; CA_41C; CA_42C; CA_48C; CA_66B; CA_66C; CA_2A-4A; CA_2A-5A; CA_2A-7A; CA_2A-12A; CA_2A-13A; CA_2A-14A; CA_2A-17A; CA_2A-30A; CA_2A-38A; CA_2A-41A; CA_2A-48A; CA_2A-66A; CA_2A-71A; CA_4A-5A; CA_4A-7A; CA_4A-12A; CA_4A-13A; CA_4A-17A; CA_4A-38A; CA_4A-41A; CA_4A-48A; CA_4A-66A; CA_4A-71A; CA_5A-7A;			



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CA_5A-12A; CA_5A-13A; CA_5A-14A; CA_5A-17A; CA_5A-30A; CA_5A-41A;
CA_5A-48A; CA_5A-66A; CA_5A-71A; CA_7A-12A; CA_7A-13A; CA_7A-25A;
CA_7A-26A; CA_7A-42A; CA_7A-66A; CA_7A-71A; CA_12A-25A; CA_12A-30A;
CA_12A-38A; CA_12A-41A; CA_12A-48A; CA_12A-66A; CA_13A-25A;
CA_13A-48A; CA_13A-66A; CA_14A-30A; CA_14A-66A; CA_25A-26A; CA_25A-41A;
CA_25A-48A; CA_25A-66A; CA_25A-71A; CA_26A-38A; CA_26A-41A; CA_26A-66A;
CA_30A-48A; CA_30A-66A; CA_38A-66A; CA_41A-42A;
CA_41A-48A; CA_41A-66A; CA_41A-71A;
NR CA:
CA_n2A-n5A; CA_n2A-n7A; CA_n2A-n12A; CA_n2A-n41A; CA_n2A-n48A;
CA_n2A-n66A; CA_n2A-n71A; CA_n2A-n77A; CA_n2A-n78A; CA_n5A-n5A;
CA_n5A-n7A; CA_n5A-n12A; CA_n5A-n41A; CA_n5A-n48A; CA_n5A-n66A;
CA_n5A-n71A; CA_n5A-n77A; CA_n5A-n78A; CA_n7A-n12A; CA_n7A-n25A;
CA_n7A-n66A; CA_n7A-n71A; CA_n7A-n77A; CA_n7A-n78A; CA_n12A-n25A;
CA_n12A-n41A; CA_n12A-n48A; CA_n12A-n66A; CA_n12A-n77A; CA_n25A-n41A;
CA_n25A-n48A; CA_n25A-n66A; CA_n25A-n71A; CA_n25A-n77A; CA_n25A-n78A;
CA_n41A-n48A; CA_n41A-n66A; CA_n41A-n71A; CA_n41A-n77A; CA_n41A-n78A;
CA_n48A-n66A; CA_n48A-n71A; CA_n48A-n77A; CA_n66A-n71A; CA_n66A-n77A;
CA_n66A-n78A; CA_n71A-n77A; CA_n71A-n78A;
CA_n26A-n66A; CA_n26A-n70A; CA_n70A-n71A; CA_n70A-n77A;
CA_n71A-n66A; CA_n71A-n70A; CA_n48A-n70A;
ENDC:
DC_2A_n2A; DC_2A_n5A; DC_2A_n7A; DC_2A_n12A; DC_2A_n25A; DC_2A_n30A;
DC_2A_n38A; DC_2A_n41A; DC_2A_n48A; DC_2A_n66A; DC_2A_n71A;
DC_2A_n77A; DC_2A_n78A; DC_4A_n2A; DC_4A_n7A; DC_4A_n38A;
DC_4A_n41A; DC_4A_n66A; DC_4A_n71A; DC_4A_n78A; DC_5A_n2A;
DC_5A_n5A; DC_5A_n7A; DC_5A_n30A; DC_5A_n38A; DC_5A_n41A;
DC_5A_n48A; DC_5A_n66A; DC_5A_n71A; DC_5A_n77A; DC_5A_n78A;
DC_7A_n2A; DC_7A_n5A; DC_7A_n7A; DC_7A_n12A; DC_7A_n25A; DC_7A_n66A;
DC_7A_n71A; DC_7A_n77A; DC_7A_n78A; DC_12A_n2A; DC_12A_n5A;
DC_12A_n7A; DC_12A_n25A; DC_12A_n30A; DC_12A_n38A; DC_12A_n41A;
DC_12A_n66A; DC_12A_n77A; DC_12A_n78A; DC_13A_n2A; DC_13A_n5A;
DC_13A_n7A; DC_13A_n25A; DC_13A_n48A; DC_13A_n66A; DC_13A_n77A;
DC_13A_n78A; DC_14A_n2A; DC_14A_n30A; DC_14A_n66A; DC_14A_n77A;
DC_25A_n41A; DC_25A_n77A; DC_25A_n78A; DC_26A_n25A; DC_26A_n41A;
DC_26A_n78A; DC_30A_n2A; DC_30A_n5A; DC_30A_n12A; DC_30A_n66A;
DC_30A_n77A; DC_38A_n78A; DC_41A_n41A; DC_41A_n77A; DC_41A_n78A;



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	DC_42A_n77A; DC_48A_n2A; DC_48A_n5A; DC_48A_n12A; DC_48A_n25A; DC_48A_n48A; DC_48A_n66A; DC_48A_n71A; DC_48A_n77A; DC_66A_n2A; DC_66A_n5A; DC_66A_n7A; DC_66A_n12A; DC_66A_n25A; DC_66A_n30A; DC_66A_n38A; DC_66A_n41A; DC_66A_n48A; DC_66A_n66A; DC_66A_n71A; DC_66A_n77A; DC_66A_n78A; DC_71A_n2A; DC_71A_n7A; DC_71A_n25A; DC_71A_n38A; DC_71A_n41A; DC_71A_n66A; DC_71A_n78A; DC_14A_n5A;
	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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2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 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: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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.

2.1.2 Test Procedure

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



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2.1.3 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/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
LTE Band 2	1850.7	2.00	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	3.20	25.00	28.20	30.00	0.1314	1.0000	5.00	12.01	5.00	Pass
LTE Band 5/LTE CA 5B	824.7	1.00	25.00	23.85	38.45	0.0792	0.5498	15.60	9.41	9.41	Pass
LTE Band 7/LTE CA 7C	2502.5	2.60	25.00	27.60	33.00	0.1145	1.0000	8.00	12.01	8.00	Pass
LTE Band 12	699.7	0.20	25.00	23.05	34.77	0.0659	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	0.20	25.00	23.05	34.77	0.0659	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	0.20	25.00	23.05	34.77	0.0659	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	0.20	25.00	23.05	34.77	0.0659	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1850.7	2.00	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
LTE Band 26(814-824)	814.7	1.00	25.00	23.85	NA	0.0792	0.5431	NA	9.36	9.36	Pass
LTE Band 26(824-849)	824.7	1.00	25.00	23.85	38.45	0.0792	0.5498	15.60	9.41	9.41	Pass
LTE Band 30	2307.5	-3.06	25.00	21.94	23.98	0.0311	1.0000	-1.02	12.01	-1.02	Pass
LTE Band 38/LTE CA 38C	2572.5	2.60	28.00	30.60	33.00	0.2284	1.0000	5.00	9.01	5.00	Pass
LTE Band 41/LTE CA 41C	2498.5	2.60	28.00	30.60	33.00	0.2284	1.0000	5.00	9.01	5.00	Pass
LTE Band 42(3450-3550)/LTE CA 42C	3452.5	3.10	25.00	28.10	30.00	0.1284	1.0000	5.00	12.01	5.00	Pass
LTE Band 43(3700-3800)	3702.5	3.10	25.00	28.10	30.00	0.1284	1.0000	5.00	12.01	5.00	Pass
LTE Band 48/LTE CA 48C	3552.5	-4.29	25.00	20.71	23.00	0.0234	1.0000	-2.00	12.01	-2.00	Pass
LTE Band 66/LTE CA 66B/LTE CA 66C	1710.7	3.20	25.00	28.20	30.00	0.1314	1.0000	5.00	12.01	5.00	Pass
LTE Band 70	1697.5	2.00	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	-9.34	25.00	13.51	34.77	0.0073	0.4437	11.92	8.48	8.48	Pass



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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n2	1852.5	2.00	NA	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
NR Band n2 (MIMO)	1852.5	2.00	2.00	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	1.00	NA	25.00	23.85	38.45	0.0792	0.5510	15.60	9.42	9.42	Pass
NR Band n5 (MIMO)	826.5	1.00	1.00	25.00	23.85	38.45	0.0792	0.5510	15.60	9.42	9.42	Pass
NR Band n7	2502.5	2.60	NA	25.00	27.60	33.00	0.1145	1.0000	8.00	12.01	8.00	Pass
NR Band n12	701.5	0.20	NA	25.00	23.05	34.77	0.0659	0.4677	11.92	8.71	8.71	Pass
NR Band n13	748.5	0.20	NA	25.00	23.05	34.77	0.0659	0.4990	11.92	8.99	8.99	Pass
NR Band n14	790.5	0.20	NA	25.00	23.05	34.77	0.0659	0.5270	11.92	9.23	9.23	Pass
NR Band n25	1852.5	2.00	NA	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
NR Band n25 (MIMO)	1852.5	2.00	2.00	25.00	27.00	33.00	0.0997	1.0000	8.00	12.01	8.00	Pass
NR Band n26(814-824)	816.5	1.00	NA	25.00	23.85	NA	0.0792	0.5443	NA	9.37	9.37	Pass
NR Band n26(824-849)	826.5	1.00	NA	25.00	23.85	38.45	0.0792	0.5510	15.60	9.42	9.42	Pass
NR Band n30	2307.5	-3.06	NA	25.00	21.94	23.98	0.0311	1.0000	-1.02	12.01	-1.02	Pass
NR Band n38	2575.0	2.60	NA	28.00	30.60	33.00	0.2284	1.0000	5.00	9.01	5.00	Pass
NR Band n38(MIMO)	2575.0	2.60	2.60	28.00	30.60	33.00	0.2284	1.0000	5.00	9.01	5.00	Pass
NR Band n41	2501.0	2.60	NA	28.00	30.60	33.00	0.2284	1.0000	5.00	9.01	5.00	Pass
NR Band n41(MIMO)	2501.0	2.60	2.60	30.00	32.60	33.00	0.3620	1.0000	3.00	7.01	3.00	Pass
NR Band n48	3555.0	-4.29	NA	25.00	20.71	23.00	0.0234	1.0000	-2.00	12.01	-2.00	Pass
NR Band n48(MIMO)	3555.0	-4.29	-4.29	25.00	20.71	23.00	0.0234	1.0000	-2.00	12.01	-2.00	Pass
NR Band n66	1712.5	3.20	NA	25.00	28.20	30.00	0.1314	1.0000	5.00	12.01	5.00	Pass
NR Band n66 (MIMO)	1712.5	3.20	3.20	25.00	28.20	30.00	0.1314	1.0000	5.00	12.01	5.00	Pass
NR Band n70	1697.5	2.00	NA	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n70 (MIMO)	1697.5	2.00	2.00	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n71	665.5	-0.50	NA	25.00	22.35	34.77	0.0561	0.4437	11.92	8.48	8.48	Pass
NR Band n71 (MIMO)	665.5	-0.50	-0.50	25.00	22.35	34.77	0.0561	0.4437	11.92	8.48	8.48	Pass
NR Band n77 (3450-3550)	3455.0	-3.48	NA	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	-3.48	-3.48	30.00	26.52	30.00	0.0893	1.0000	0.00	7.01	0.00	Pass
NR Band n77 (3700-3980)	3707.5	-3.48	NA	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3700-3980)(MIMO)	3707.5	-3.48	-3.48	30.00	26.52	30.00	0.0893	1.0000	0.00	7.01	0.00	Pass
NR Band n78 (3450-3550)	3455.0	-4.11	NA	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass



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NR Band n78 (3450-3550)(MIMO)	3455.0	-4.11	-4.11	30.00	25.89	30.00	0.0772	1.0000	0.00	7.01	0.00	Pass
NR Band n78 (3700-3800)	3705.0	-4.11	NA	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	-4.11	-4.11	30.00	25.89	30.00	0.0772	1.0000	0.00	7.01	0.00	Pass



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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:

$$\sum_{i=1}^n \frac{S_{E_i} (duty factor)}{MPE_{E_i}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation

Therefore, the worst-case (CA_n5A-n41A) situation is $0.1437+0.3197=0.4634$, which is less than "1", this confirmed that the device comply with MPE limit.

----End of Report---