



EMC TEST REPORT

Product Name: MDVR

Model Name: M10 PRO, M10

FCC ID: 2AM6L-M10

Issued For : Streamax Technology Co., Ltd.

21-23/F, Building B1, Zhiyuan, No. 1001 Xueyuan Avenue,
Nanshan District, Shenzhen, Guangdong China 518055

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT25G120EM01

Sample Received Date: Jul. 14, 2025

Date of Test: Jul. 14, 2025 ~ Aug. 04, 2025

Date of Issue: Aug. 04, 2025

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TEST REPORT CERTIFICATION

Applicant: Streamax Technology Co., Ltd.
Address: 21-23/F, Building B1, Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong China 518055

Manufacturer: Streamax Technology Co., Ltd.
Address: 21-23/F, Building B1, Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong China 518055

Product Name: MDVR

Trademark: N/A

Model Name: M10 PRO

Series Model: M10

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

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Engineer

Approved by:

Vita Li

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Technical Director





Table of Contents

1. TEST SUMMARY	5
1.1 TEST LABORATORY	6
1.2 MEASUREMENT UNCERTAINTY	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	8
2.3 DESCRIPTION OF THE SUPPORT UNITS	8
2.4 MEASUREMENT INSTRUMENTS LIST	9
3. EMC EMISSION TEST	10
3.1 CONDUCTED EMISSION MEASUREMENT	10
3.2 RADIATED EMISSION MEASUREMENT	12
APPENDIX I - TEST SETUP	16
APPENDIX II - External Photographs of EUT Constructional Details	17



Revision History

Rev.	Issue Date	Revisions
00	Aug. 04, 2025	Initial Issue



1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	N/A	Note 3
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	Note 2

Note:

- 1 “N/A” denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- 3 According to the electrical construction of the EUT, there is no AC terminal incorporated and DC terminal which no dedicated AC/DC adaptor. Therefore this test is not applicable for this EUT.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.61
Radiated Emissions	1000 ~ 6000	5.10
Radiated Emissions	6000 ~ 18000	5.49

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	MDVR
Test Model Name:	M10 PRO
Series Model:	M10
Model Different:	M10 PRO is the main test model, M10 is the series model. and PRO is an upgraded version, Has the same wireless transmission technology.
Maximum operating frequency:	>108MHz
Rating:	Input: DC12V~24V
Test voltage:	DC 24V
Hardware Version:	N/A
Software Version:	N/A
Connecting I/O Port(s):	Please refer to the Note 1.

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	On, operating

For Radiated Emission	
Final Test Mode	Description
Mode 1	On, operating

Note: For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.

2.3 DESCRIPTION OF THE SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Wiring harness	N/A	N/A	N/A	N/A
display screen	N/A	N/A	N/A	N/A
camera	N/A	N/A	N/A	N/A

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.4 MEASUREMENT INSTRUMENTS LIST

Radiated Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Spectrum Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Trilog Broadband Antenna	SCHWARZBECK	VULB 9168	01447	2024.05.17	2027.05.16
Horn Antenna	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2025.03.06	2026.03.05
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Temperature & Humidity	BT-3	JINGCHUANG	N.A	2025.03.10	2026.03.09
Testing Software	SKET	EMC-I	V1.4.0.3	N/A	N/A



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

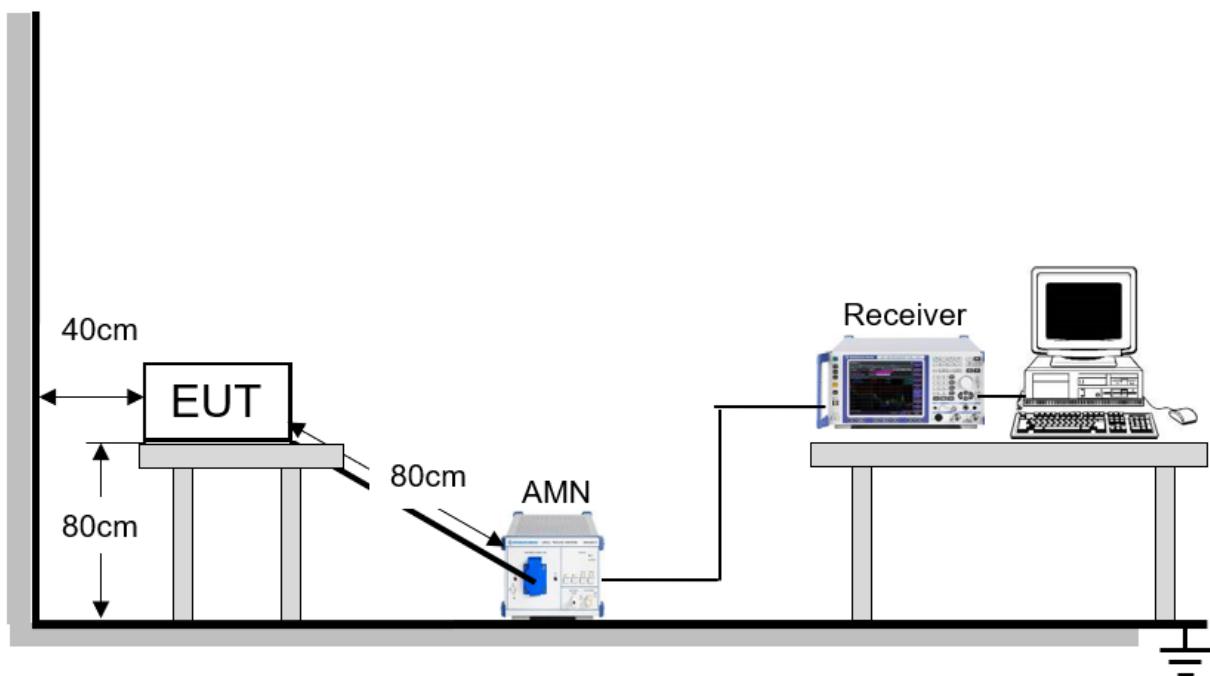
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.



3.1.3 TEST SETUP



3.1.4 TEST RESULTS

N/A.

Note: EUT cannot be charged. Therefore, the test of AC power supply is not evaluated.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
30 - 88	49.5		40	
88 - 216	53.9		43.5	
216 - 960	56.9		46	
Above 960	60		54	

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

(1) The limit for radiated test was performed according to FCC Part 15, Subpart B;

(2) The tighter limit applies at the band edges;

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),

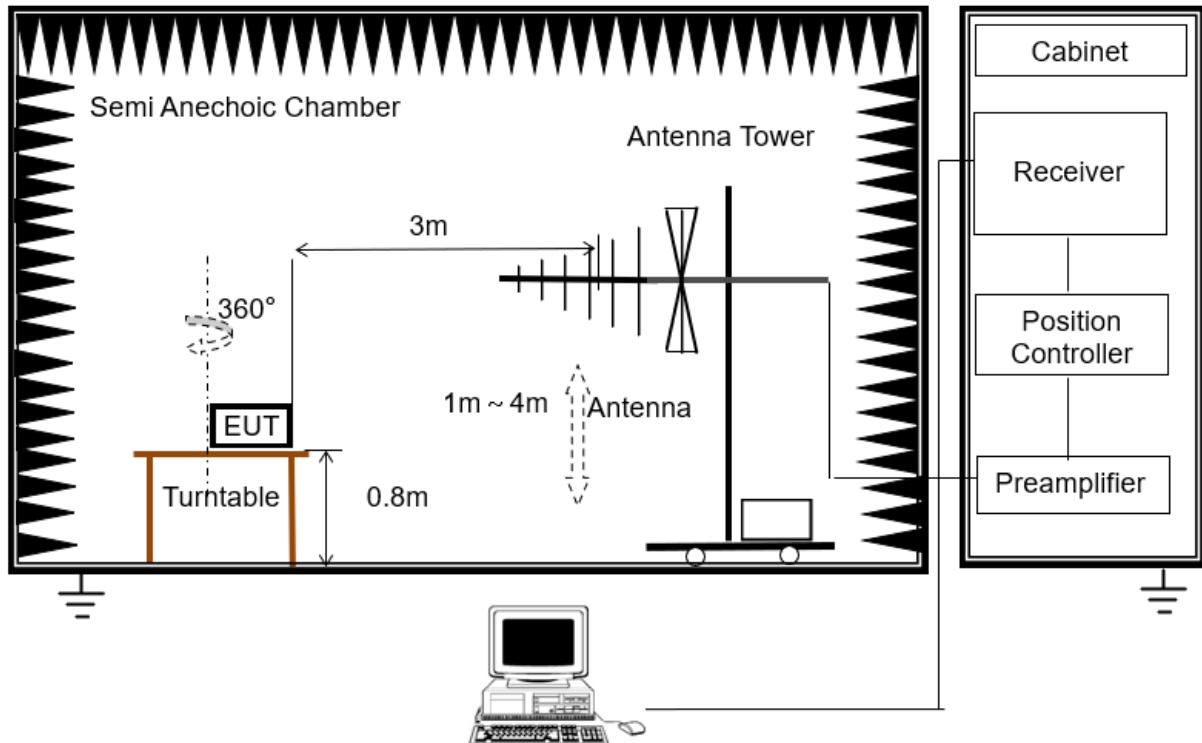
Margin Level = Measurement Value - Limit Value.

3.2.2 TEST PROCEDURE

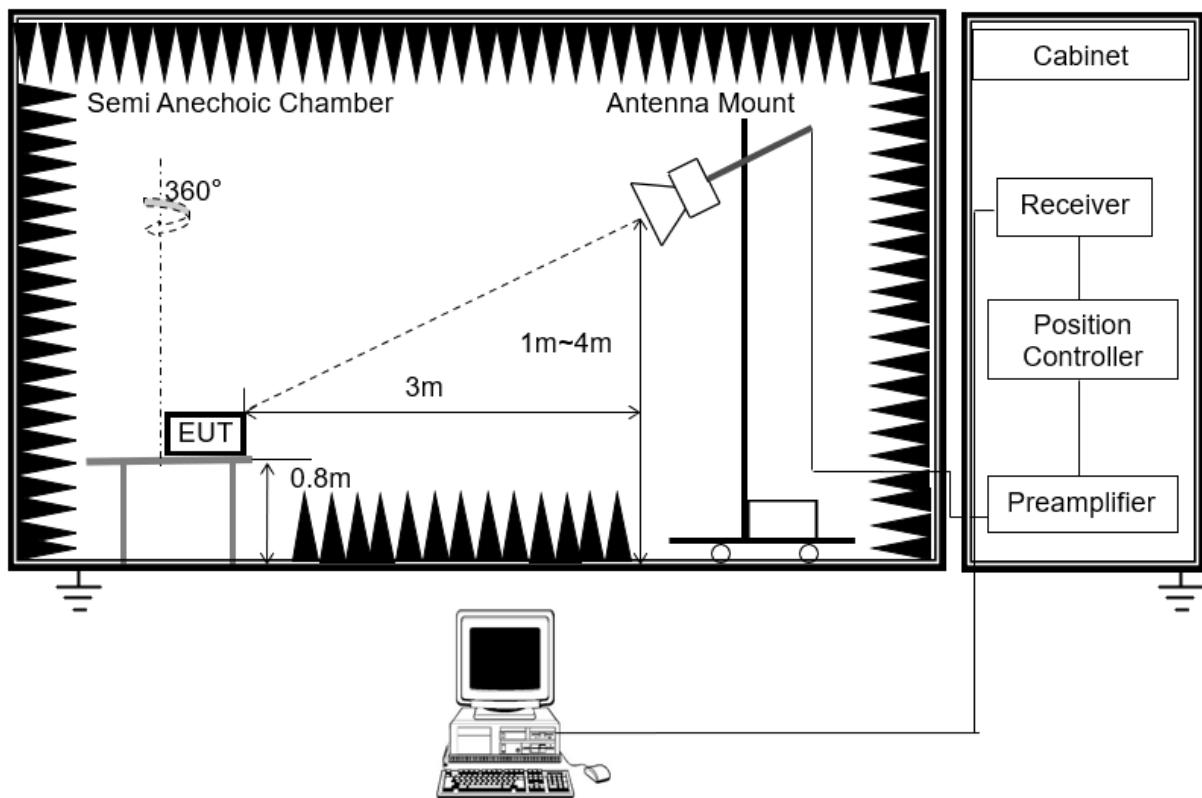
- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



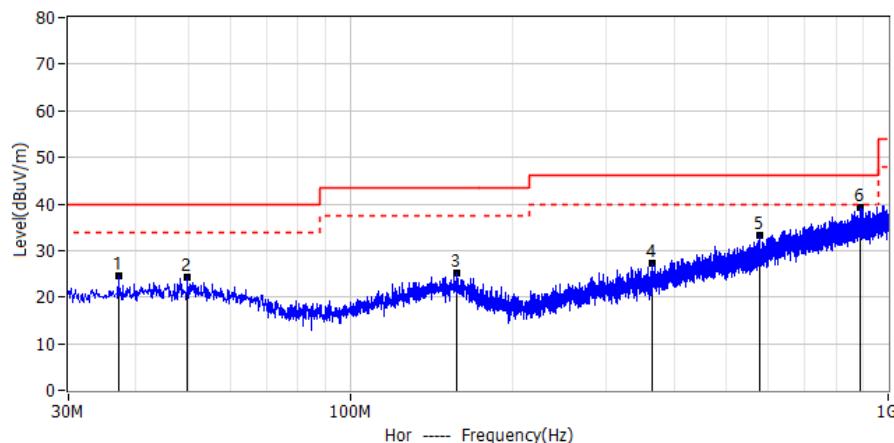
For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration



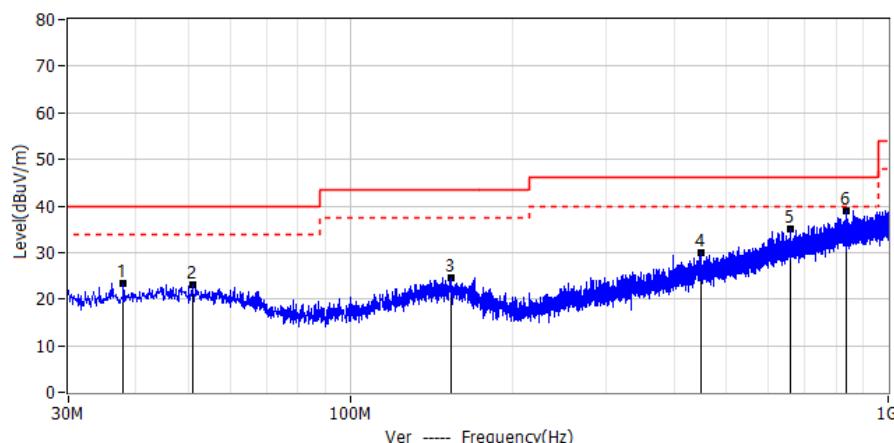
3.2.4 TEST RESULTS

Below 1 GHz

Project: LGT25G120	Test Engineer: LiuH
EUT: MDVR	Temperature: 25.2°C
M/N: M10 PRO	Humidity: 55%RH
Test Voltage: DC 24V	Test Data: 2025-07-24
Test Mode: On, operating	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.154	4.53	20.08	24.61	40.00	-15.39	QP	Hor
2*	49.885	3.67	20.69	24.36	40.00	-15.64	QP	Hor
3*	158.283	3.07	22.08	25.15	43.50	-18.35	QP	Hor
4*	364.893	3.11	24.04	27.15	46.00	-18.85	QP	Hor
5*	577.201	4.37	28.79	33.16	46.00	-12.84	QP	Hor
6*	889.420	4.71	34.49	39.20	46.00	-6.80	QP	Hor

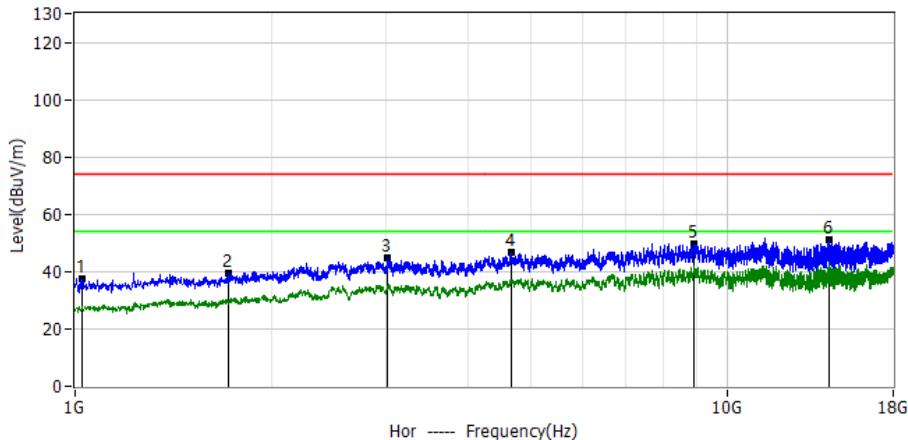


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.881	3.45	20.02	23.47	40.00	-16.53	QP	Ver
2*	50.976	2.25	20.95	23.20	40.00	-16.80	QP	Ver
3*	154.524	2.76	21.87	24.63	43.50	-18.87	QP	Ver
4*	447.828	3.08	26.80	29.88	46.00	-16.12	QP	Ver
5*	657.954	4.56	30.53	35.09	46.00	-10.91	QP	Ver
6*	834.251	5.55	33.42	38.97	46.00	-7.03	QP	Ver

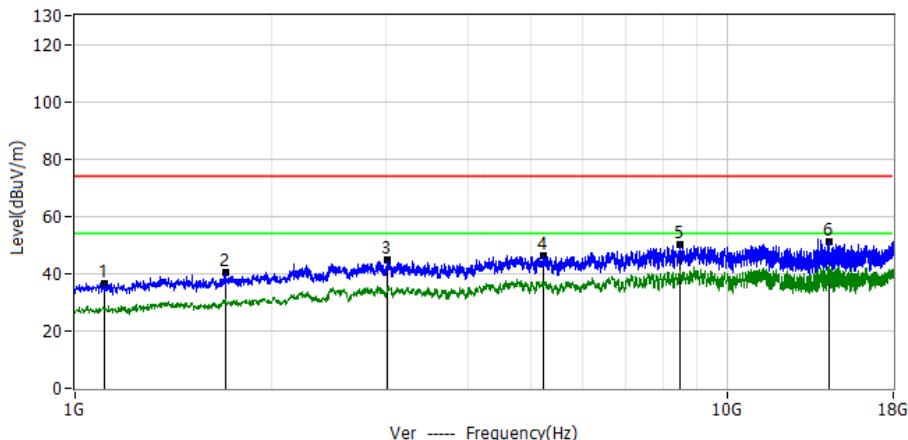


Above 1GHz

Project: LGT25G120	Test Engineer: LiuH
EUT: MDVR	Temperature: 25.2°C
M/N: M10 PRO	Humidity: 55%RH
Test Voltage: DC 24V	Test Data: 2025-07-24
Test Mode: On, operating	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1023.4000	62.20	-24.55	37.65	74.00	-36.35	PK	Hor
2*	1718.2000	58.45	-19.19	39.26	74.00	-34.74	PK	Hor
3*	3018.7000	53.53	-8.78	44.75	74.00	-29.25	PK	Hor
4*	4678.4000	53.31	-6.68	46.63	74.00	-27.37	PK	Hor
5*	8907.1000	53.42	-3.84	49.58	74.00	-24.42	PK	Hor
6*	14385.4000	50.54	0.71	51.25	74.00	-22.75	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1110.5000	60.50	-23.79	36.71	74.00	-37.29	PK	Ver
2*	1699.1000	59.87	-19.37	40.50	74.00	-33.50	PK	Ver
3*	3010.2000	53.65	-8.77	44.88	74.00	-29.12	PK	Ver
4*	5241.5000	54.31	-7.82	46.49	74.00	-27.51	PK	Ver
5*	8456.6000	54.60	-4.66	49.94	74.00	-24.06	PK	Ver
6*	14372.6000	50.57	0.72	51.29	74.00	-22.71	PK	Ver



APPENDIX I - TEST SETUP

Set-up for Radiated Emission (RE), Below 1GHz



Set-up for Radiated Emission (RE), Above 1GHz





APPENDIX II - External Photographs of EUT Constructional Details

Photo 1



Photo 2





Photo 3

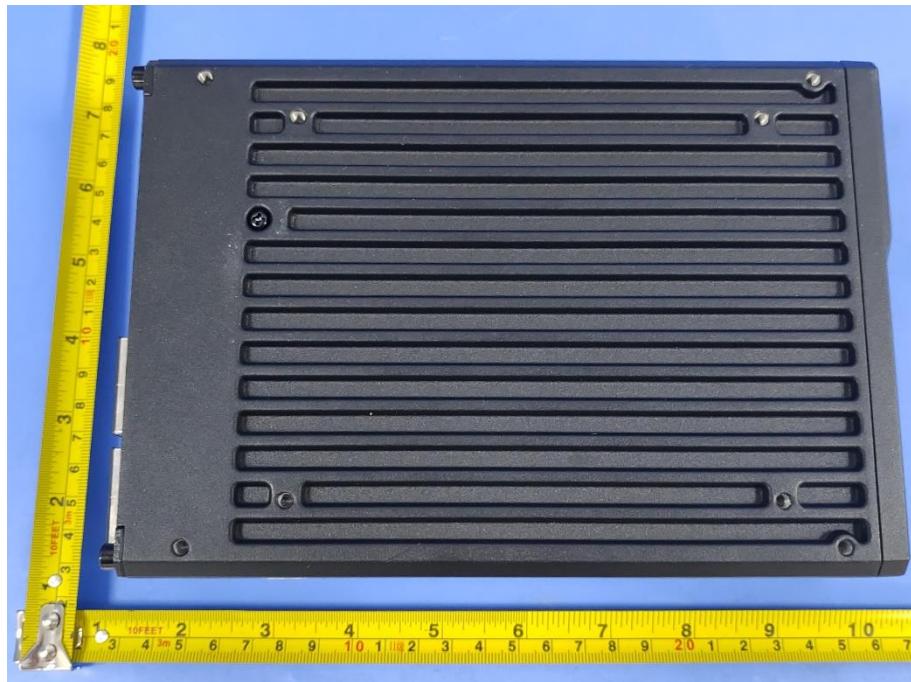


Photo 4





Photo 5



Photo 6





Photo 7



Photo 8





Photo 9



Photo 10





Photo 11



Photo 12





Photo 13



Photo 14





Photo 15



Photo 16

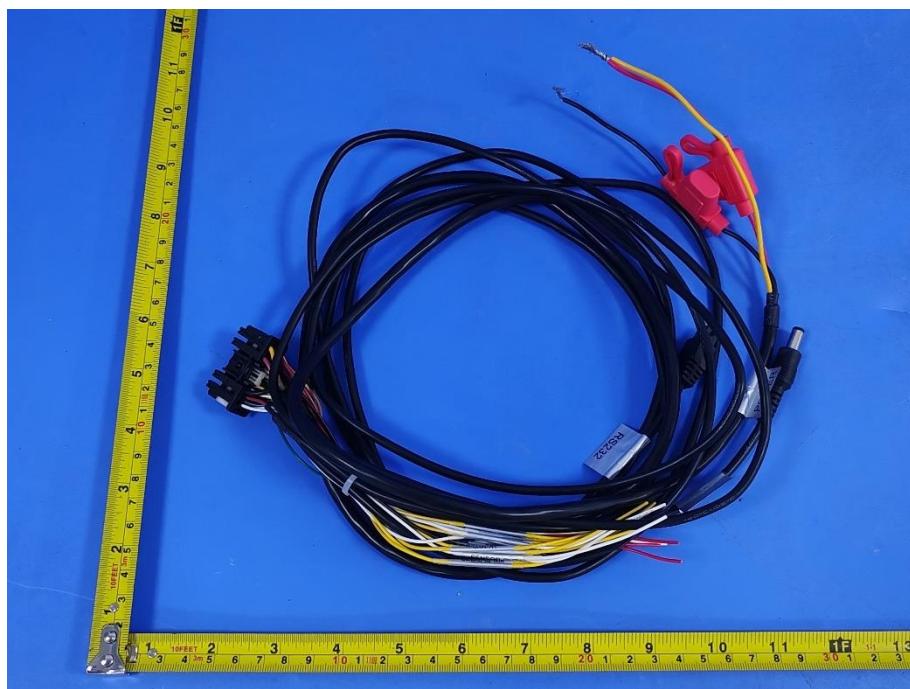




Photo 17



Photo 18





Photo 19



Photo 20





Photo 21



Photo 22





Photo 23



Photo 24





Photo 25

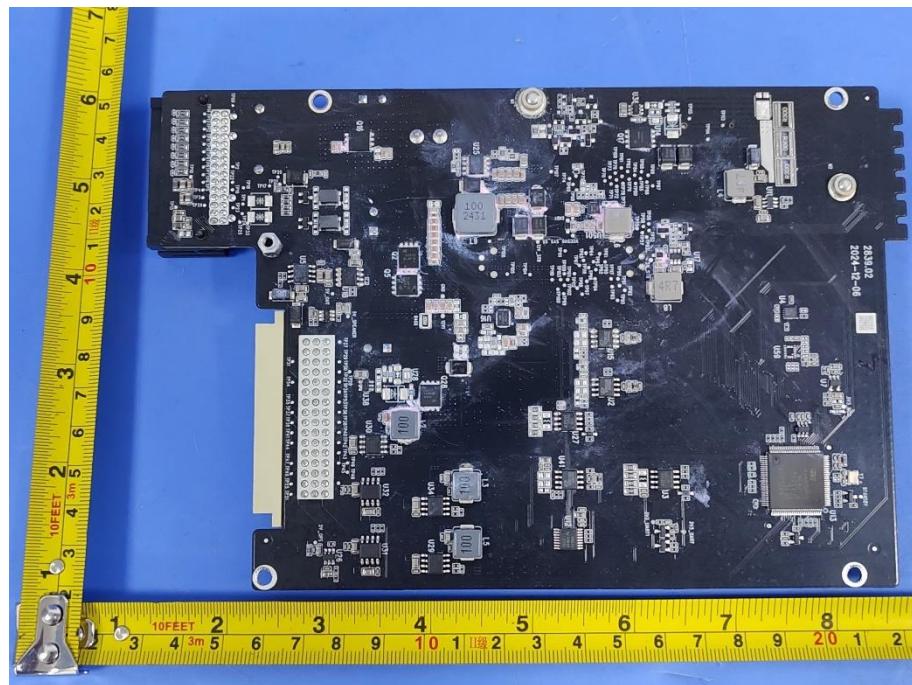


Photo 26

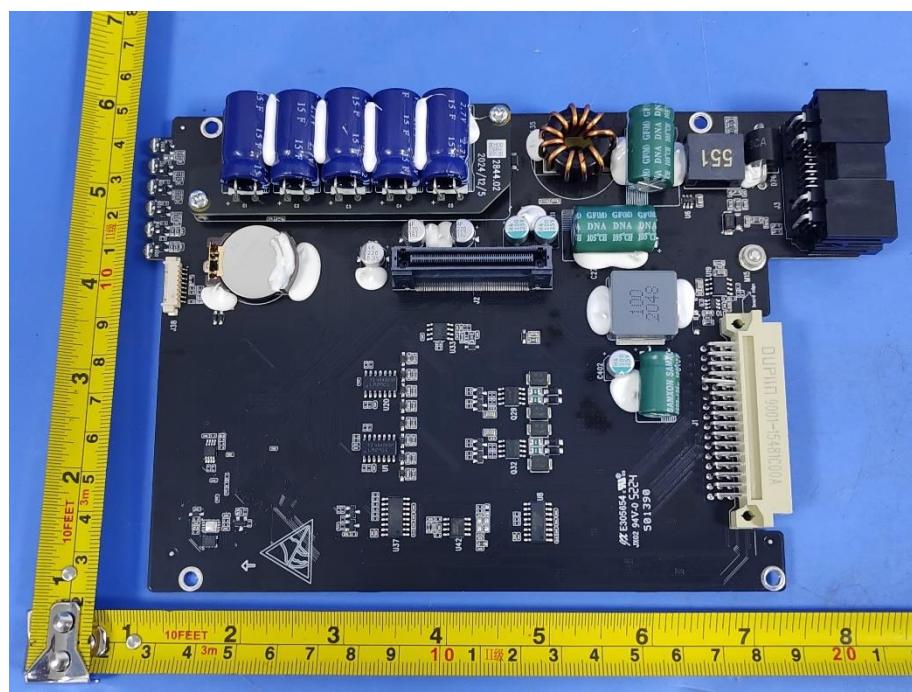




Photo 27

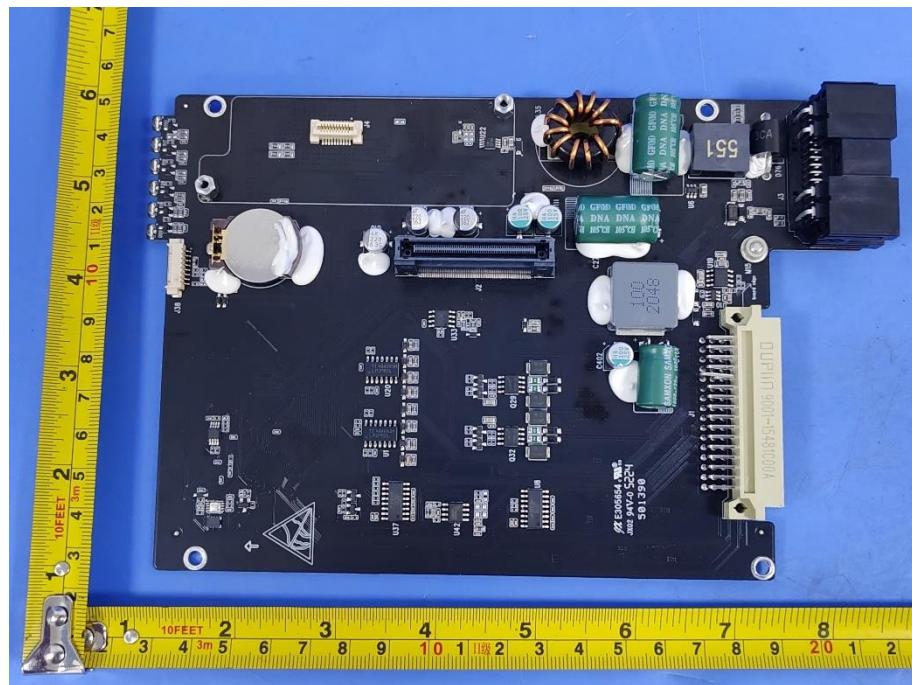


Photo 28





Photo 29

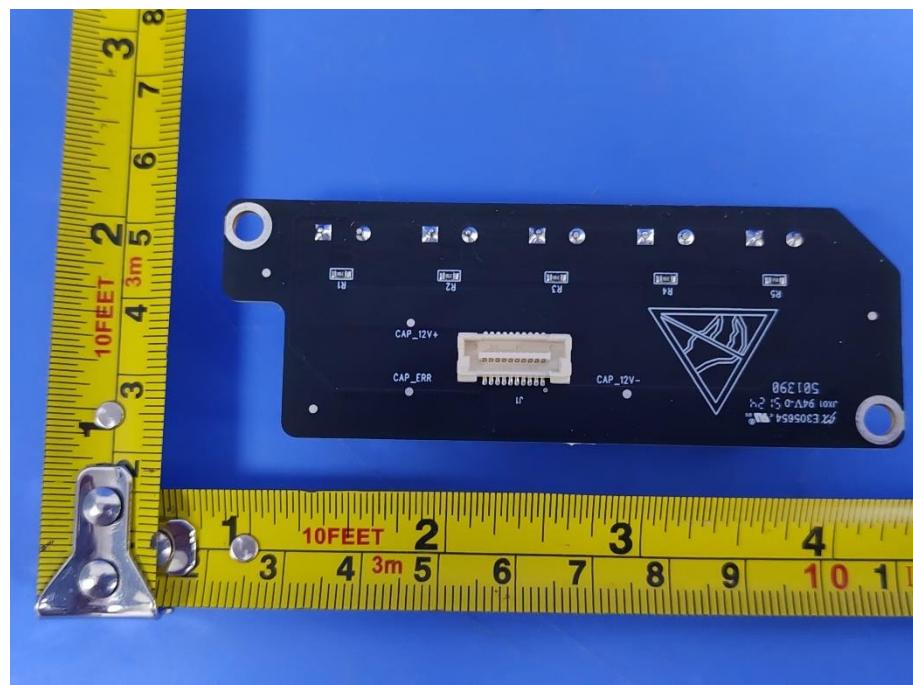


Photo 30

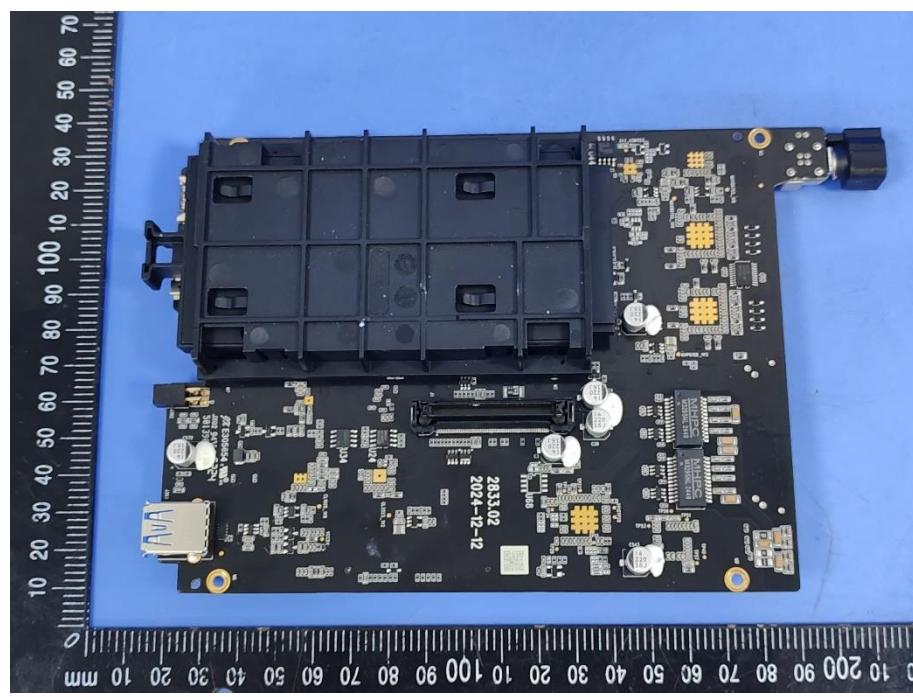




Photo 31

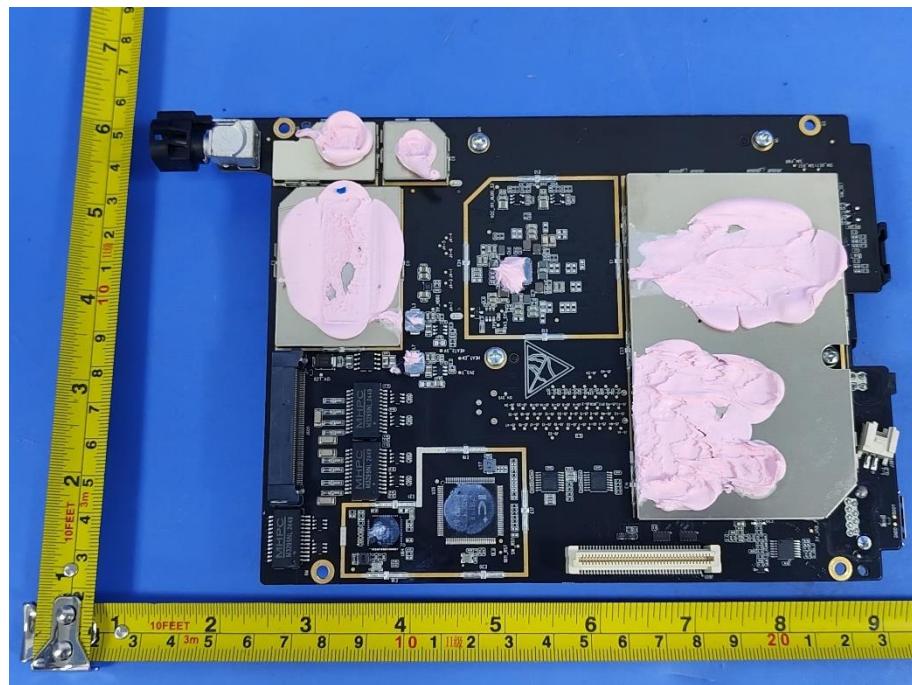


Photo 32

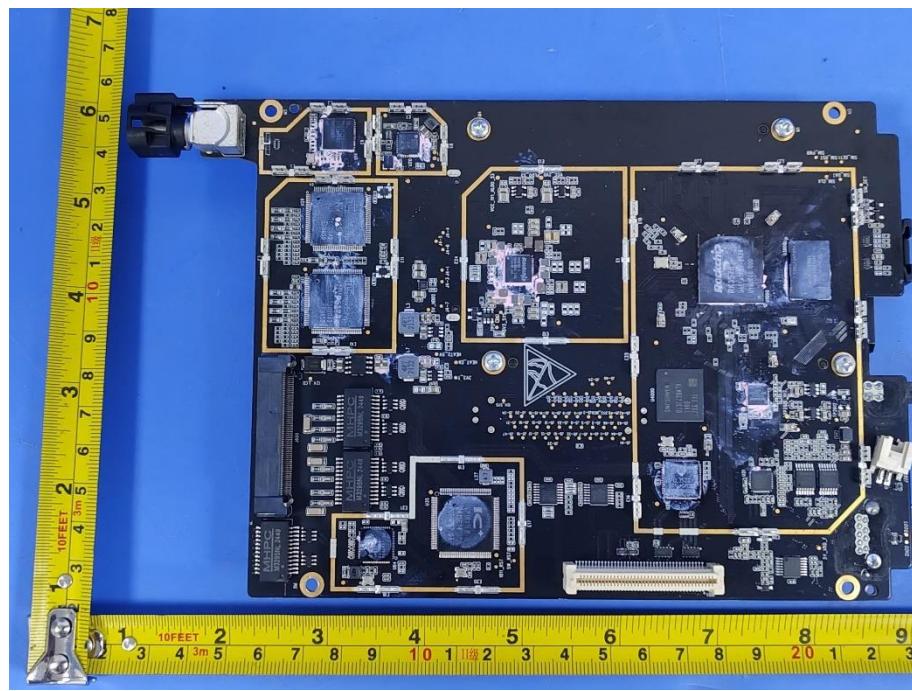




Photo 33

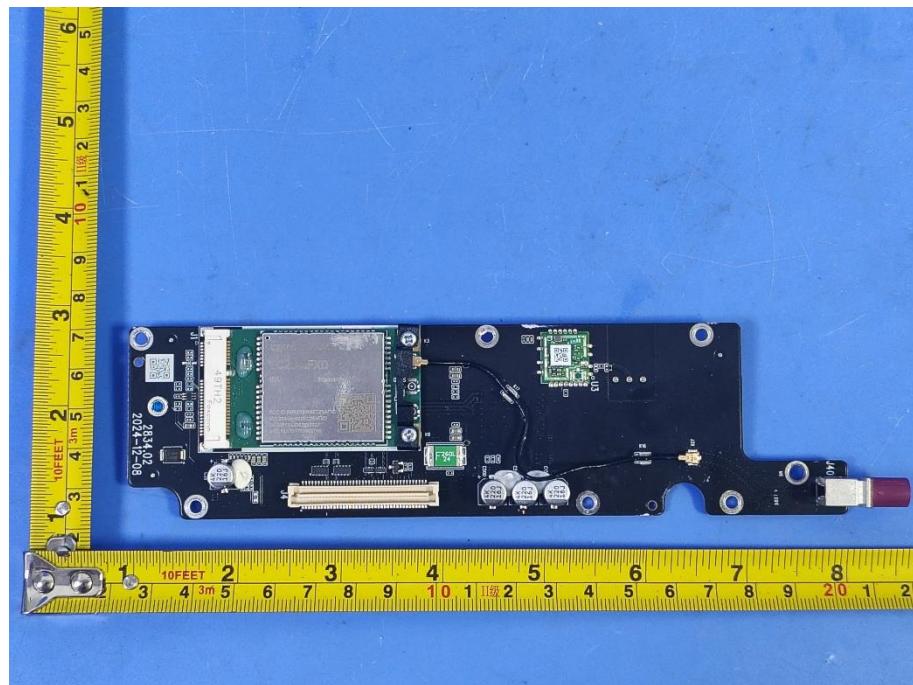


Photo 34

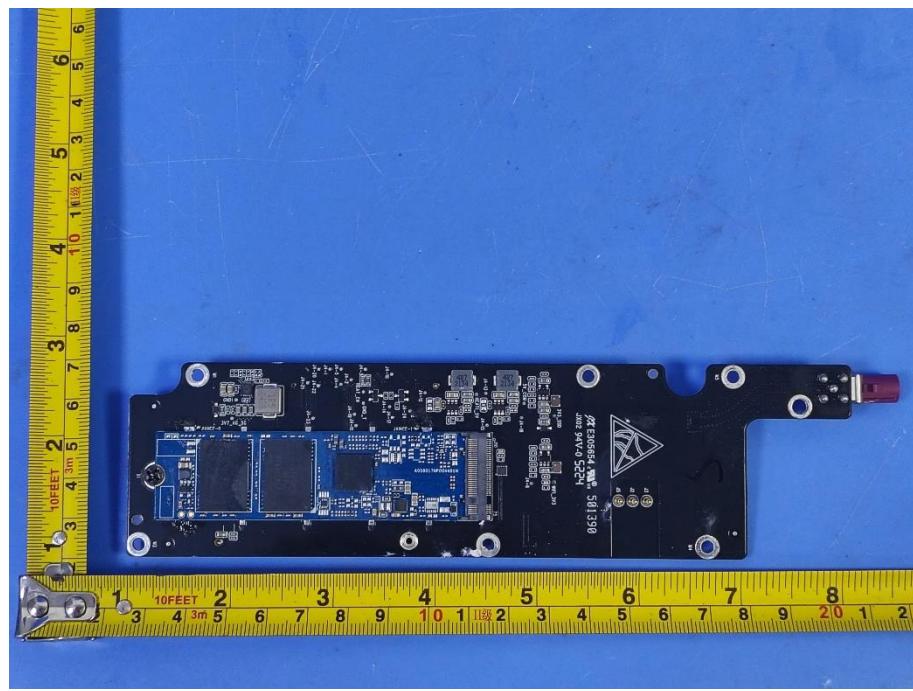




Photo 35

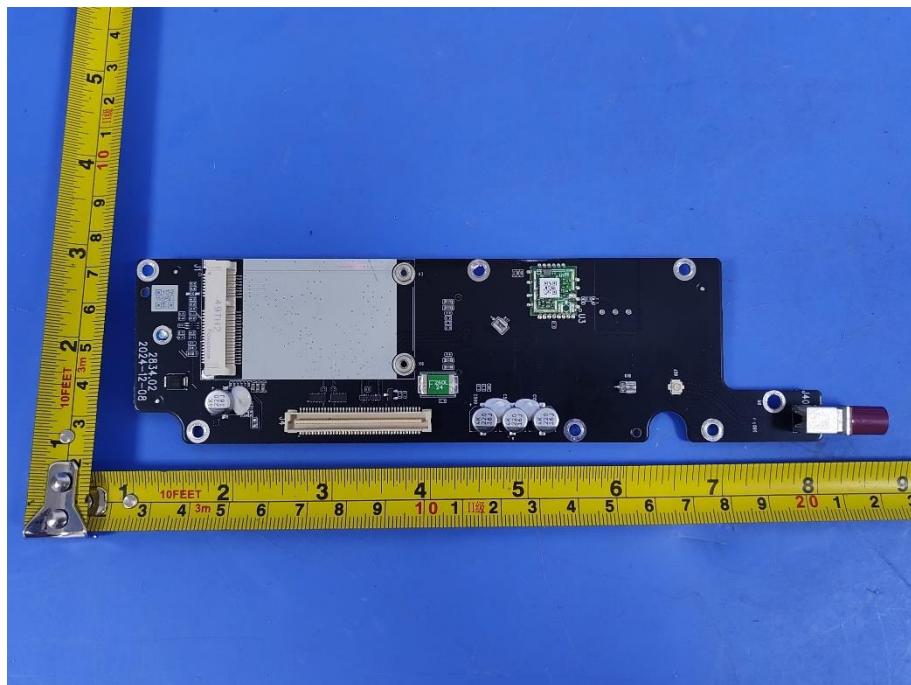


Photo 36

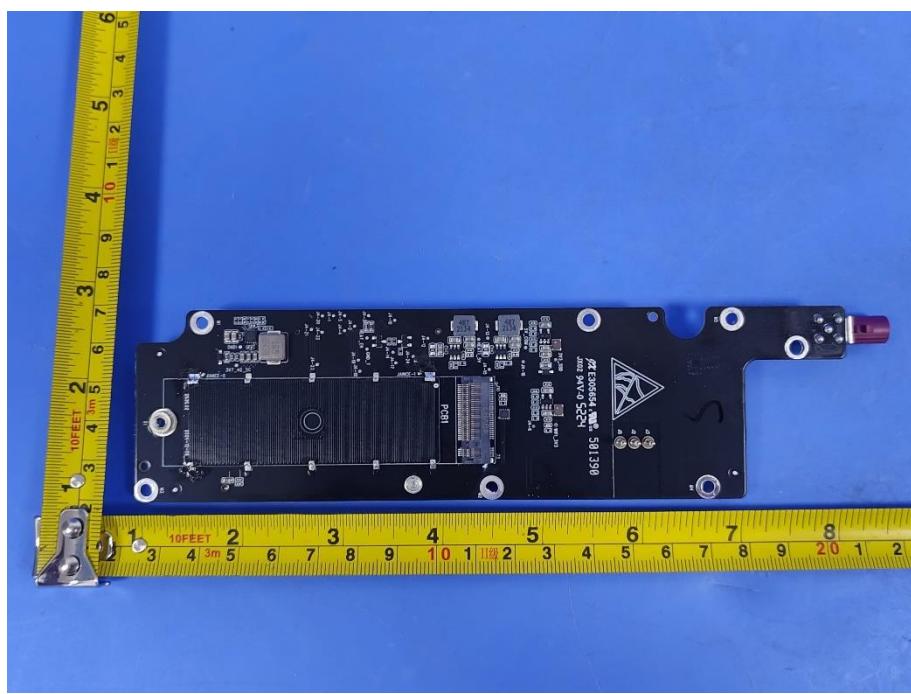




Photo 37

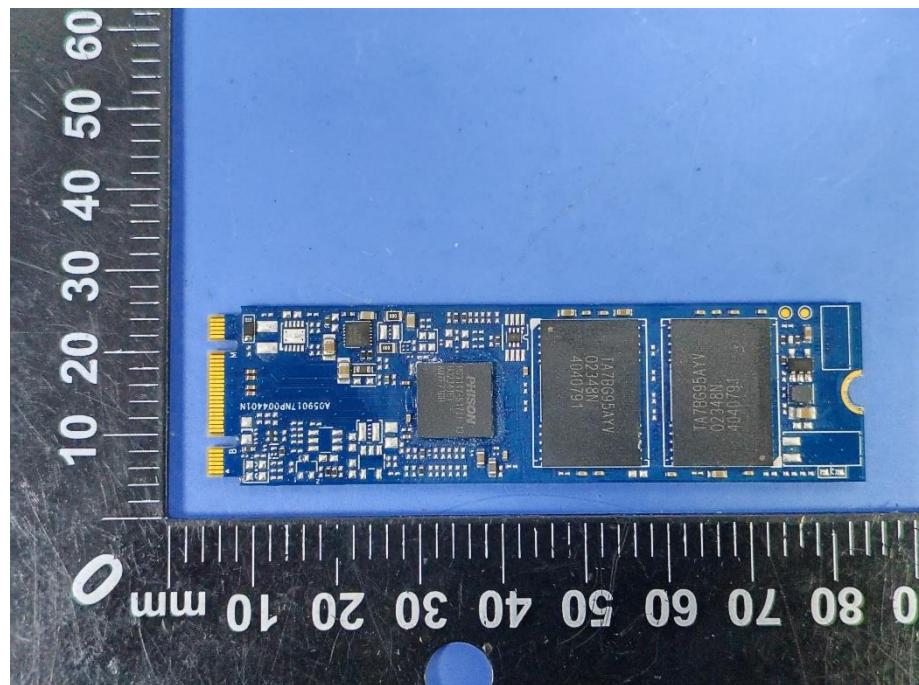


Photo 38

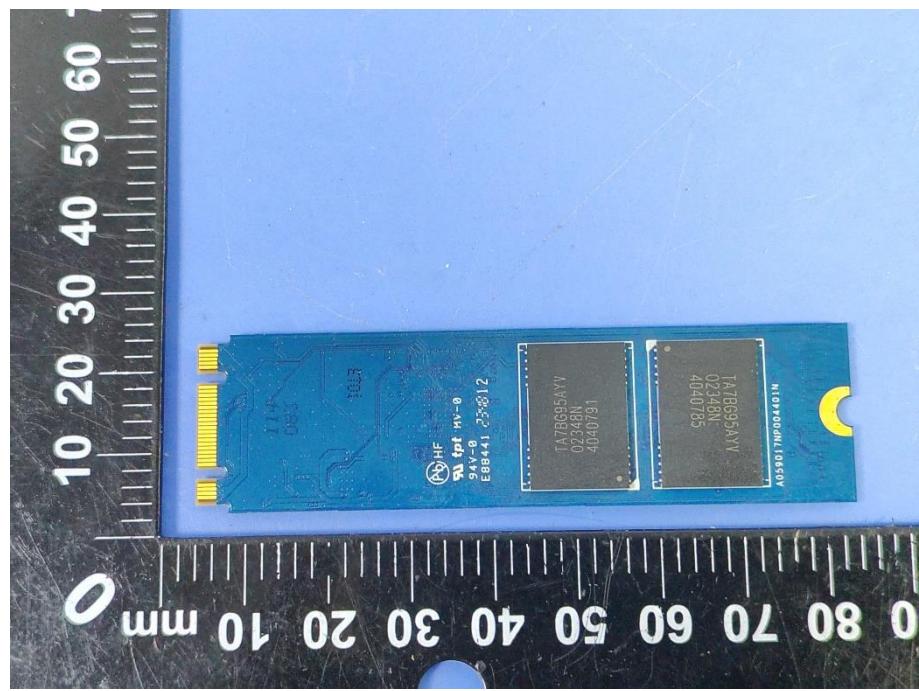




Photo 39

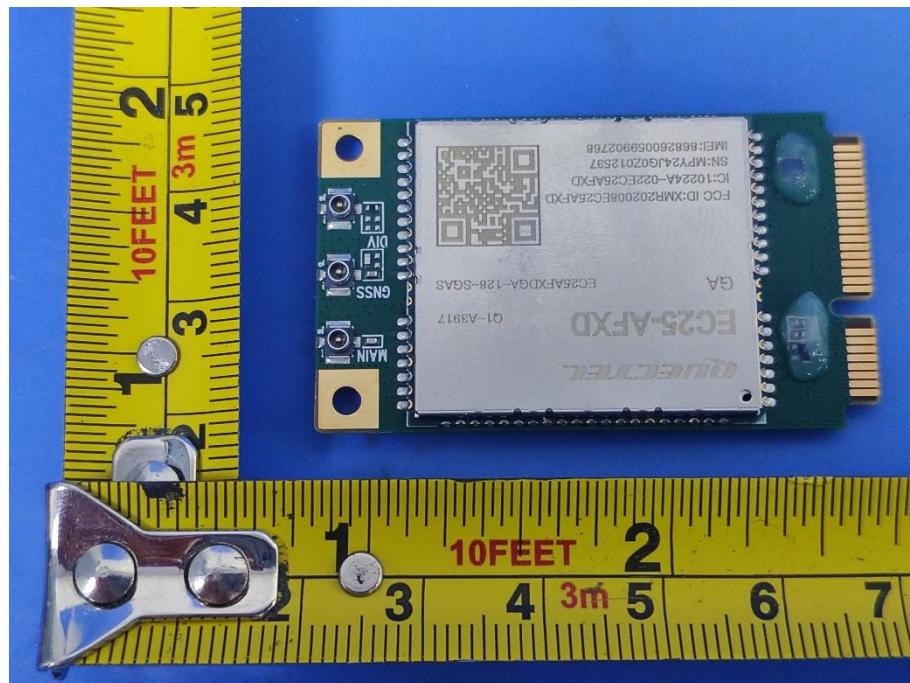


Photo 40





Photo 41

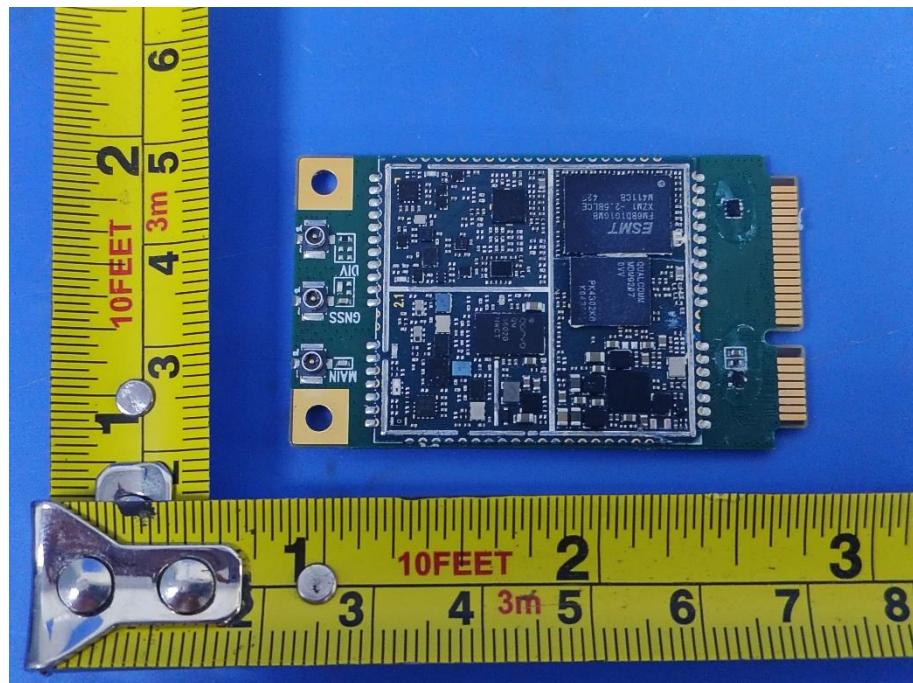


Photo 42

