



FCC TEST REPORT

for

FCC ID : 2A5UJ-CM84

Product: Land Meter

**Model: CM84,CM83,CM84,CM84A,CM84B,CM84C,CM84D,
CM84E,CM84F,MC8042,MC8043,MC8045,MC8046**

Report No.: PTC22021702701E-FC01

Sample ID : PTC22021702701E-#01

Issued for

THREEG

**202,building 2,Juntai Logistics Park,68South Huancheng road,Bantian Steet,
Shenzhen City, Guangdong Province**

Issued by

Precise Testing & Certification Co., Ltd.

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1. TEST CERTIFICATION

Product:	Land Meter
Model:	CM84,CM83,CM84,CM84A,CM84B,CM84C,CM84D,CM84E,CM84F,MC8042,MC8043,MC8045,MC8046
Applicant :	THREEG
Address:	202,building 2,Juntai Logistics Park,68South Huancheng road,Bantian Steet, Shenzhen City, Guangdong Province
Manufacturer:	THREEG
Address:	202,building 2,Juntai Logistics Park,68South Huancheng road,Bantian Steet, Shenzhen City, Guangdong Province
Test Date:	February 21, 2022 to March 5, 2022
Issued Date:	March 5, 2022
Test Voltage:	DC 5V/Battery
Applicable Standards:	FCC Part 15, Subpart B Class B ANSI C63.4:2014

The above equipment has been tested by Precise Testing & Certification Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Test Engineer:

Abel Yu / Engineer

Technical Manager:

Wu Weimin / Manager



2. TEST SUMMARY

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Class B	Conducted Emission (Main Port)	PASS	Complied with limit
	Radiated Emission	PASS	Complied with limit

Note: 1) The test result verdict is decided by the limit of test standard.

2) The information of measurement uncertainty is available upon the customer's request.



3. TEST SITE

3.1. TEST FACILITY

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

☆ CNAS Registration No.: CNAS L5772

☆ FCC Registration No.: 790290

☆ A2LA Certificate No.: 4408.01

☆ IC Registration No.: 12191A-1

☆ CAB identifier: CN0080

3.2. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Temperature	$\pm 1^{\circ} \text{C}$
Humidity	$\pm 5\%$
DC and Low Frequency Voltages	$\pm 3\%$
Conducted Emission(150KHz-30MHz)	$\pm 3.60\text{dB}$
Radiated Emission(30MHz-1GHz)	$\pm 4.76\text{dB}$
Radiated Emission (1GHz-18GHz)	$\pm 4.44\text{dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



3.3. LIST OF TEST AND MEASUREMENT INSTRUMENTS

3.3.1. For conducted emission at the mains terminals test

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	Aug. 22, 2022
ISN	SCHWARZBECK	NTFM8131	00257	Aug. 22, 2022
Test S/W	Tonscend	JS32-CE/4.0.0.3		

3.3.2. For radiated emission test (30MHz-1GHz)

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022
Bilog Antenna	SCHWARZBECK	VULB 9160	9160-3355	Aug. 19, 2022
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	Aug. 22, 2022
Test S/W	Emtek	e3/1.0.0.0		

3.3.3. For radiated emission test (1GHz above)

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022
Spectrum Analyzer	Agilent	E4407B	MY45109572	Aug. 28, 2022
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	Aug. 19, 2022
High NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	Aug. 18, 2022
Test S/W	Emtek	e3/1.0.0.0		



4. EUT DESCRIPTION

Product	Land Meter
Model	CM84,CM83,CM84,CM84A,CM84B,CM84C,CM84D,CM84E,CM84F,MC8042,MC8043,MC8045,MC8046
Supplied Voltage	DC 5V/1A
Power	N/A

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
AC Port	1	☐
DC Port	1	☐

Models Difference

The difference between each model is only the appearance color and model name, the other are the same, the difference does not affect the safety and electromagnetic compatibility performance of the product.



5. TEST METHODOLOGY

5.1. TEST MODE

The EUT was tested together with the thereafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were assessed.

Test Items		Test Mode
Emission	Conducted Emission	GLONASS G1,GPSL1,SBASL1
	Radiated Emission	GLONASS G1,GPSL1,SBASL1

5.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipment.
2. Make sure the EUT work normally during the test.

6. SETUP OF EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF SUPPORT UNITS

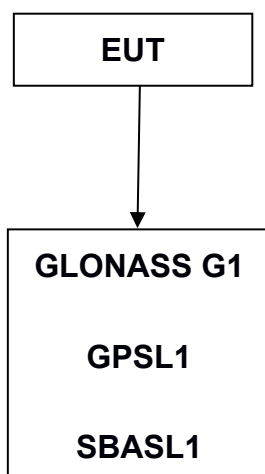
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Serial No.	Trade Name
1.	Adapter	GQ24-050300-AU	N/A	N/A

Note: 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Land Meter)

7. CONDUCTED EMISSION MEASUREMENT

7.1. LIMITS

FREQUENCY (MHz)	Class A		Class B	
	Quasi-peak dB(μ V)	Average dB(μ V)	Quasi-peak dB(μ V)	Average dB(μ V)
0.15 - 0.5	79	66	66-56	56-46
0.5 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: 1) The lower limit shall apply at the transition frequencies.

2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.2. TEST PROCEDURES

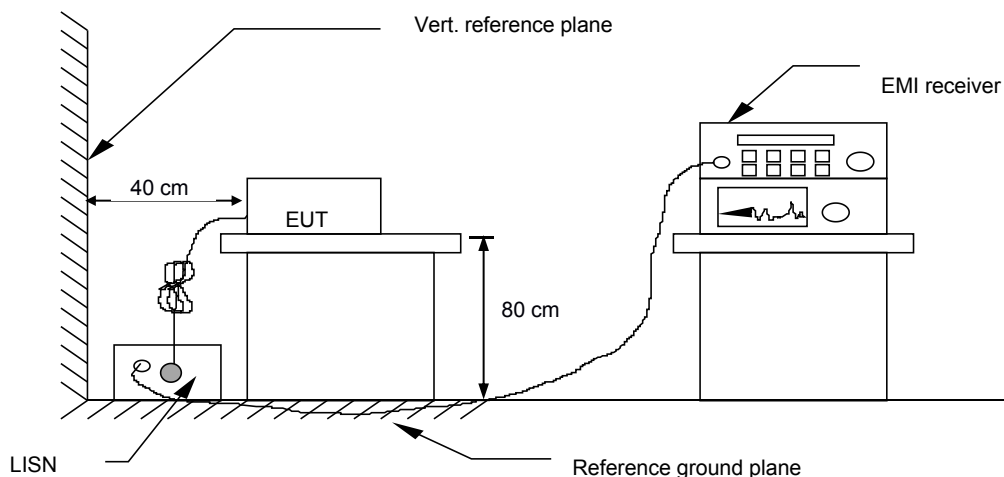
The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane. The EUT should be 0.8 m apart from the AMN, where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, Details please refer to test setup photography.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes. During the above scans, the emissions were maximized by cable manipulation.

A scan was taken on both of the power lines, Line and neutral, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: e3, Software Version: 1.0.0.0.

7.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.4. TEST RESULT

Product name	Land Meter	Tested By	HRD
Model	CM84	Detector Function	Peak / Quasi-peak/AV
Test Mode	GLONASS G1, GPSL1, SBASL1	6 dB Bandwidth	9 kHz
Environmental Conditions	25.0°C, 60.0 % RH, 101.2 kPa	Test Result	Pass

Note:

L = Line Line, N = Neutral Line

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = attenuator + Cable loss

Level (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Over Limit (dB) = Level (dB μ V) – Limit (dB μ V)

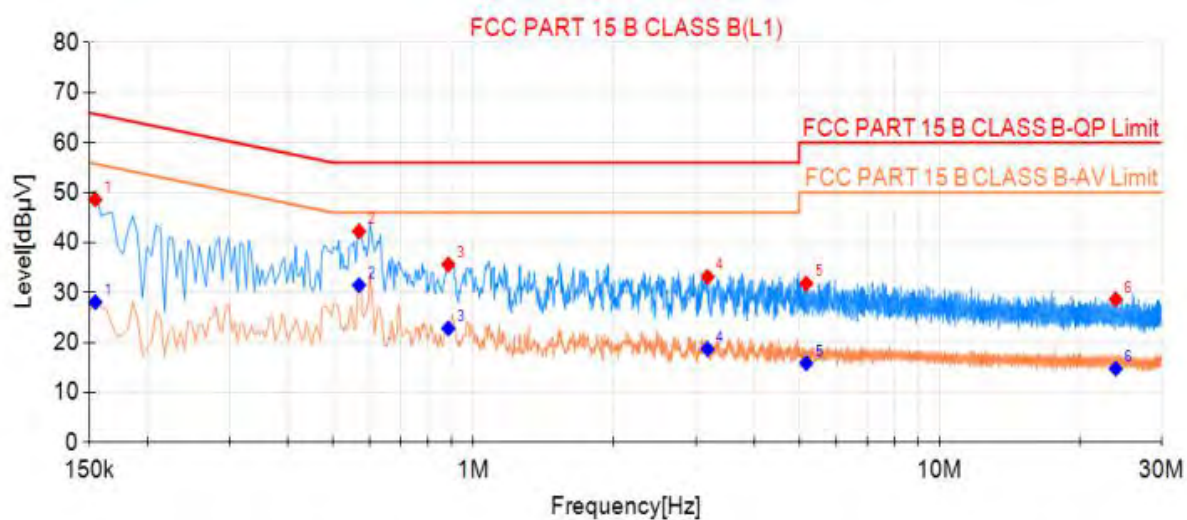
QP = Quasi-Peak

AV = Average



Please refer to the following diagram:GLONASS G1

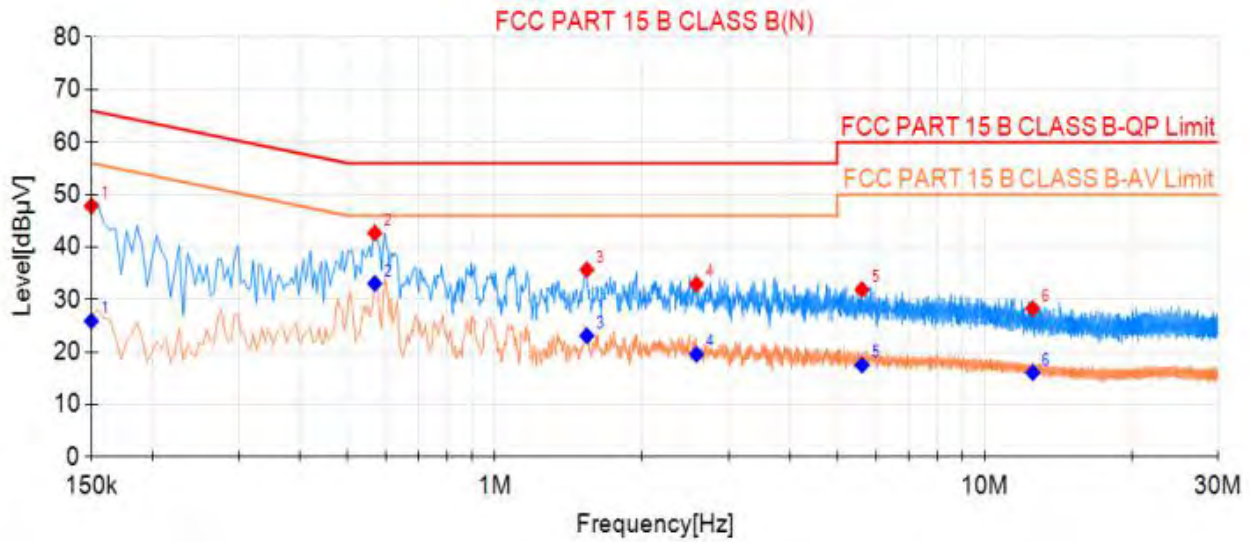
Line:



Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1545	48.63	65.75	17.12	28.08	55.75	27.67	PASS
2	0.5685	42.25	56.00	13.75	31.48	46.00	14.52	PASS
3	0.8835	35.64	56.00	20.36	22.84	46.00	23.16	PASS
4	3.1785	33.15	56.00	22.85	18.71	46.00	27.29	PASS
5	5.1765	31.81	60.00	28.19	15.87	50.00	34.13	PASS
6	23.883	28.66	60.00	31.34	14.77	50.00	35.23	PASS

Neutral:



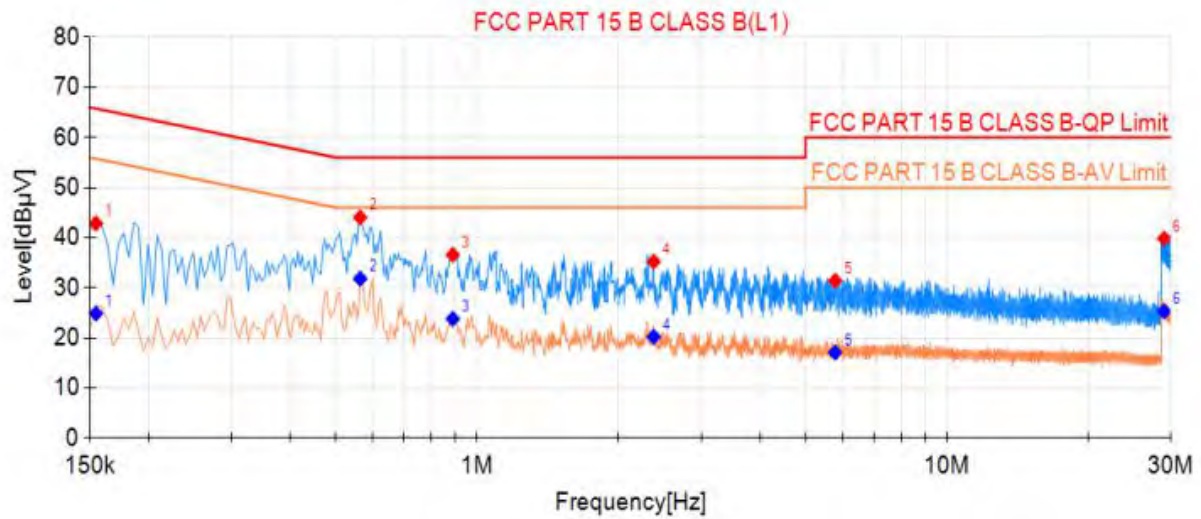
Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.15	47.85	66.00	18.15	25.91	56.00	30.09	PASS
2	0.5685	42.67	56.00	13.33	33.08	46.00	12.92	PASS
3	1.5405	35.69	56.00	20.31	23.12	46.00	22.88	PASS
4	2.58	32.94	56.00	23.06	19.58	46.00	26.42	PASS
5	5.6175	31.93	60.00	28.07	17.52	50.00	32.48	PASS
6	12.5385	28.32	60.00	31.68	16.09	50.00	33.91	PASS



Please refer to the following diagram:GPSL1

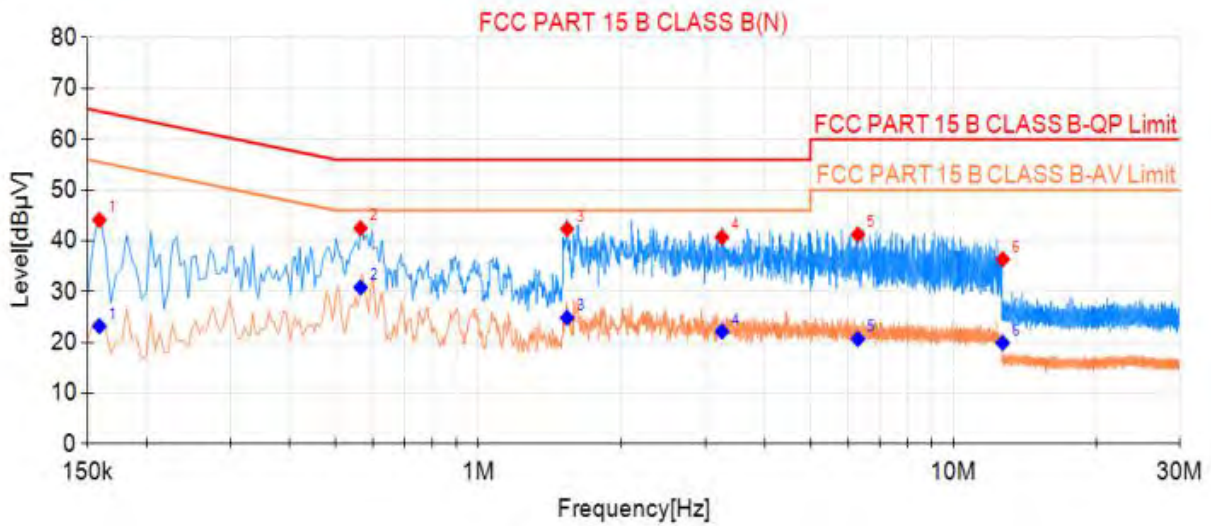
Line:



Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1545	42.86	65.75	22.89	24.88	55.75	30.87	PASS
2	0.564	44.06	56.00	11.94	31.83	46.00	14.17	PASS
3	0.888	36.59	56.00	19.41	23.83	46.00	22.17	PASS
4	2.3775	35.24	56.00	20.76	20.23	46.00	25.77	PASS
5	5.784	31.42	60.00	28.58	17.09	50.00	32.91	PASS
6	28.995	39.84	60.00	20.16	25.29	50.00	24.71	PASS

Neutral:

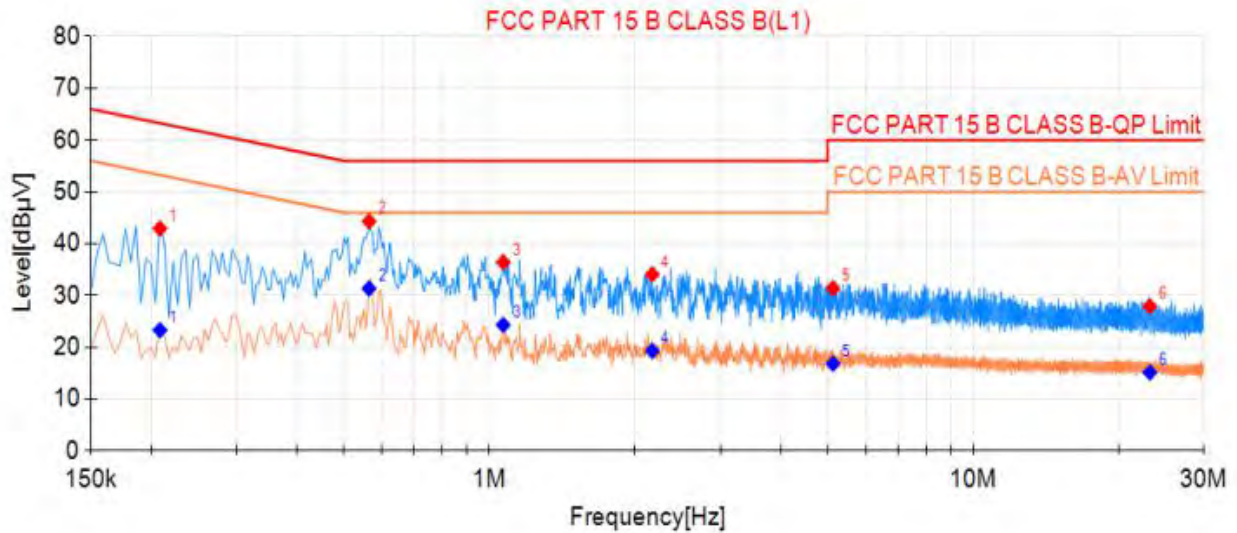


Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.159	44.12	65.52	21.40	23.19	55.52	32.33	PASS
2	0.564	42.49	56.00	13.51	30.83	46.00	15.17	PASS
3	1.536	42.36	56.00	13.64	24.86	46.00	21.14	PASS
4	3.255	40.71	56.00	15.29	22.15	46.00	23.85	PASS
5	6.2925	41.22	60.00	18.78	20.67	50.00	29.33	PASS
6	12.7005	36.39	60.00	23.61	19.92	50.00	30.08	PASS

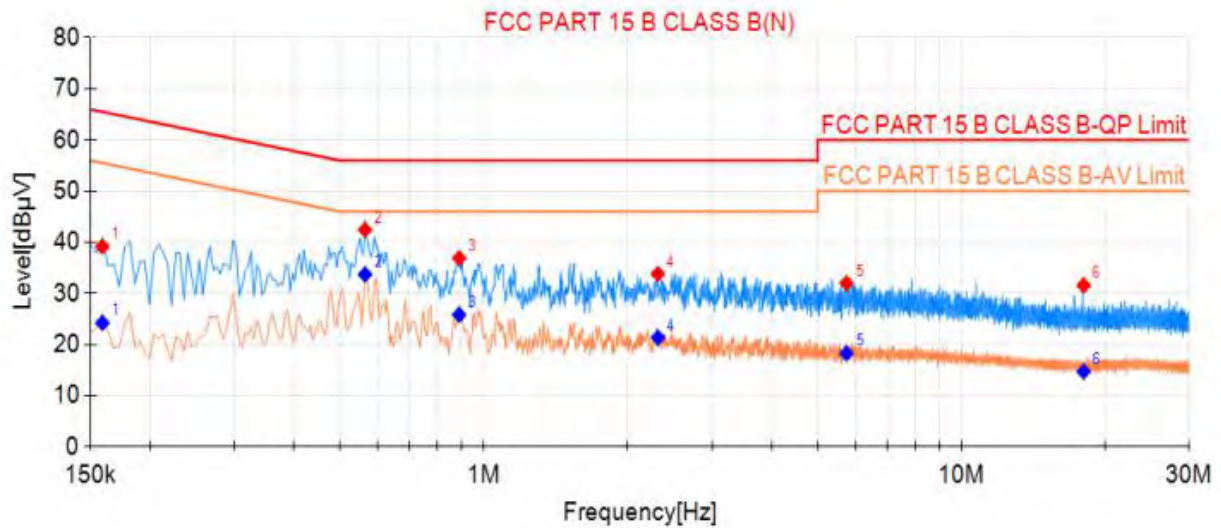
Please refer to the following diagram:SBASL1

Line:



Final Data List								
NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2085	42.93	63.26	20.33	23.32	53.26	29.94	PASS
2	0.564	44.34	56.00	11.66	31.36	46.00	14.64	PASS
3	1.068	36.43	56.00	19.57	24.33	46.00	21.67	PASS
4	2.1705	34.08	56.00	21.92	19.31	46.00	26.69	PASS
5	5.1315	31.39	60.00	28.61	16.85	50.00	33.15	PASS
6	23.19	27.91	60.00	32.09	15.16	50.00	34.84	PASS

Neutral:



Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.159	39.18	65.52	26.34	24.25	55.52	31.27	PASS
2	0.564	42.47	56.00	13.53	33.72	46.00	12.28	PASS
3	0.888	36.90	56.00	19.10	25.84	46.00	20.16	PASS
4	2.3145	33.83	56.00	22.17	21.36	46.00	24.64	PASS
5	5.748	32.02	60.00	27.98	18.30	50.00	31.70	PASS
6	18.0285	31.59	60.00	28.41	14.75	50.00	35.25	PASS



8. RADIATED EMISSION MEASUREMENT

8.1. LIMITS

Maximum permissible level of Radiated Emission measured at 3 meter distance.

FREQUENCY (MHz)	dB μ V/m (At 3m)	
	Class A digital device	Class B digital device
30~88	49.00	40.00
88~216	53.50	43.50
216~960	56.40	46.00
960~1000	59.50	54.00

Note: 1) The lower limit shall apply at the transition frequencies.

2) Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

8.2. TEST PROCEDURE

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane which has a 0.1 m non-conductive covering to insulate the EUT from the ground plane.

The antenna was placed at 3 meter away from the EUT. The antenna connected to the spectrum analyzer via a cable and at times a pre-amplifier would be used.

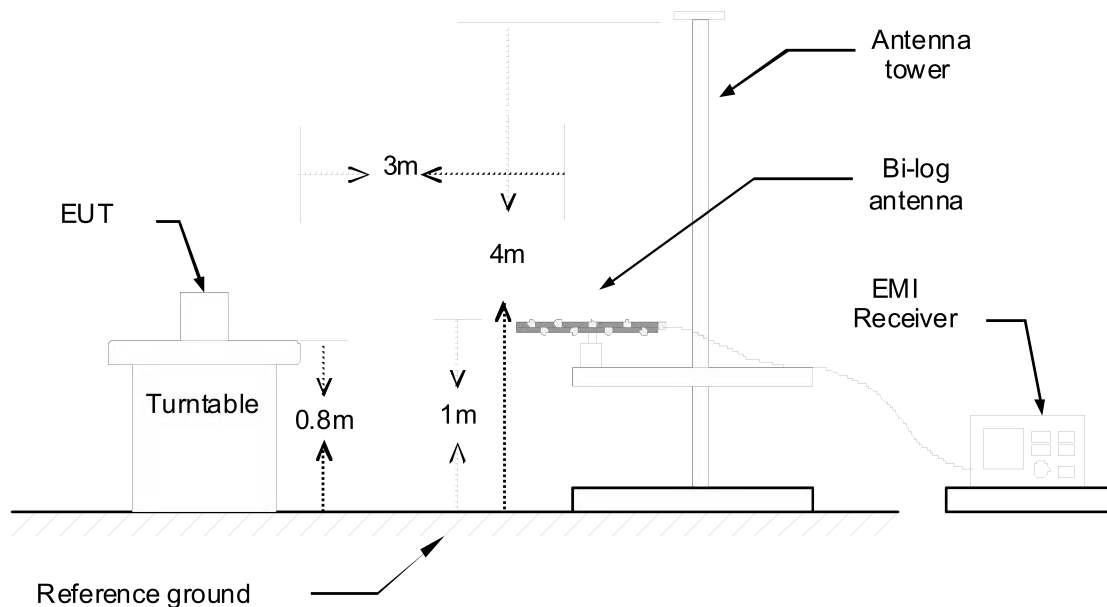
The analyzer / receiver quickly scanned from 30 MHz to 1000 MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

During the above scans, the emissions were maximized by cable manipulation. Each modes is measured, recorded at least the six highest emissions. The emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: e3, Software Version: 8.2.1.0.

8.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration

8.4. TEST RESULT

Receiver Setup	Frequency	Detector	RBW	VBW	Remark
	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading(dB μ V)

Corr.Factor (dB/m)=Antenna factor(dB/m)+Cable loss(dB)-Preamp Factor(dB)

Measurement (dB μ V/m)=Reading level(dB μ V)+ Corr. Factor (dB/m)

Limit (dB μ V/m) = Limit stated in standard

Over Limit (dB) = Measurement (dB μ V/m) – Limit (dB μ V/m)

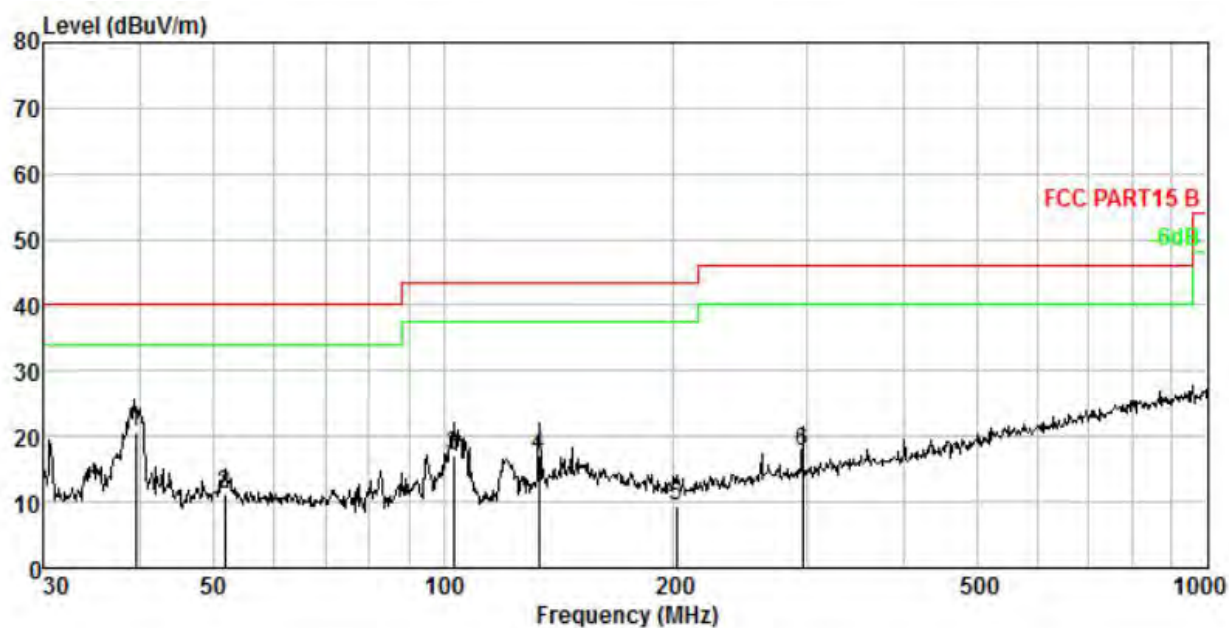
QP = Quasi-Peak

The highest frequency of the internal sources is 26Mhz, it was less than 108 MHz, so the measurement was only made up to 1 GHz.



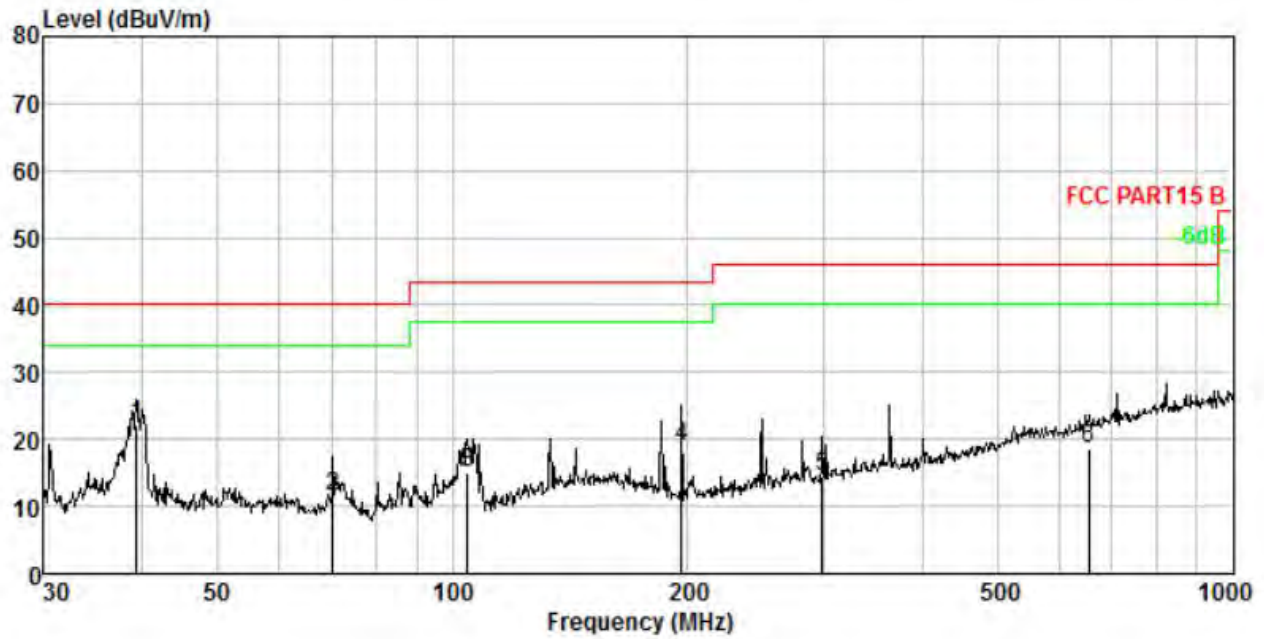
Please refer to the following diagram: GLONASS G1

Vertical:



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	39.567	1.68	12.11	36.67	29.91	20.55	40.00	-19.45	QP
2.	51.724	2.14	12.10	26.77	29.92	11.09	40.00	-28.91	QP
3.	103.222	3.33	10.00	33.69	29.99	17.03	43.50	-26.47	QP
4.	133.517	3.77	12.90	30.41	30.01	17.07	43.50	-26.43	QP
5.	201.682	4.47	11.06	23.83	30.05	9.31	43.50	-34.19	QP
6.	295.132	5.13	13.14	29.65	30.31	17.61	46.00	-28.39	QP

Horizontal:

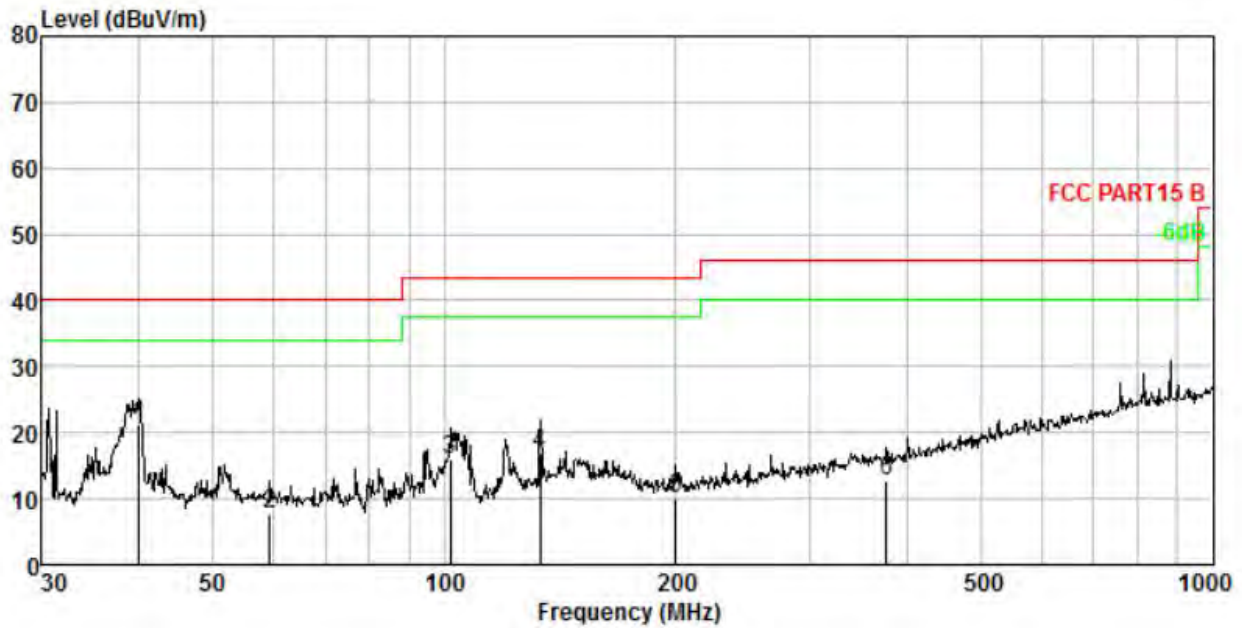


No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	39.428	1.67	12.11	38.17	29.91	22.04	40.00	-17.96	QP
2.	70.290	2.67	10.06	28.62	29.95	11.40	40.00	-28.60	QP
3.	104.688	3.35	10.18	31.50	29.99	15.04	43.50	-28.46	QP
4.	196.766	4.43	11.23	33.37	30.04	18.99	43.50	-24.51	QP
5.	298.270	5.15	13.18	26.47	30.32	14.48	46.00	-31.52	QP
6.	654.678	6.50	19.65	23.59	31.05	18.69	46.00	-27.31	QP



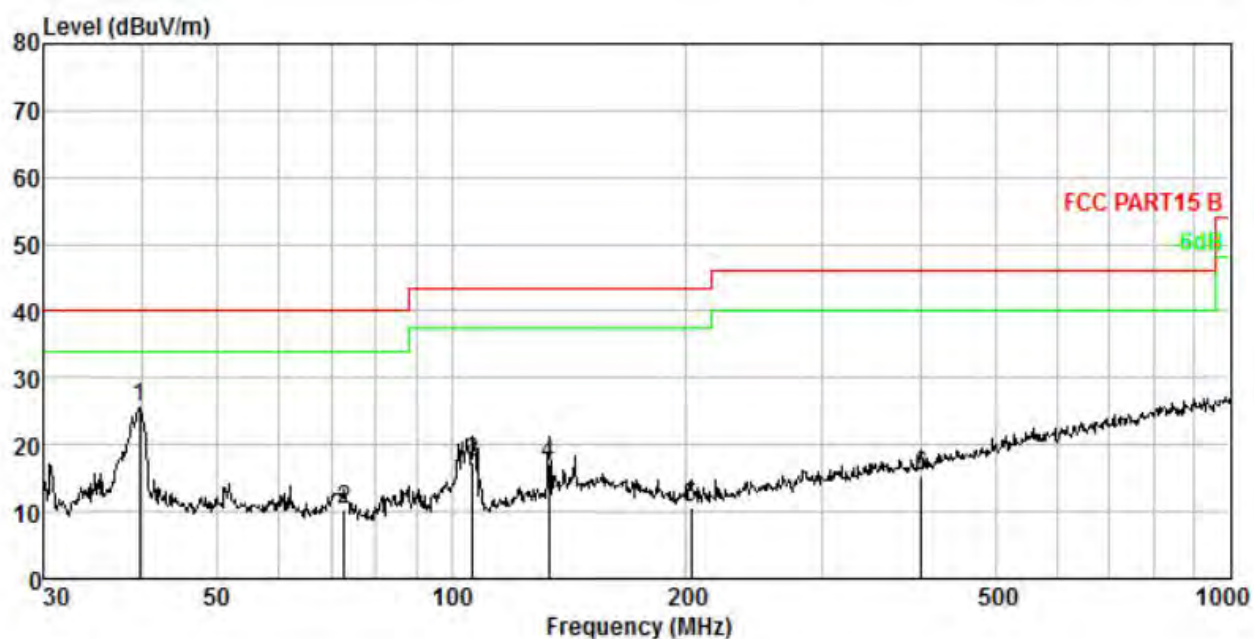
Please refer to the following diagram:GPSL1

Vertical:



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	40.129	1.71	12.11	37.26	29.91	21.17	40.00	-18.83	QP
2.	59.347	2.37	11.75	23.57	29.94	7.75	40.00	-32.25	QP
3.	101.777	3.30	9.82	32.67	29.99	15.80	43.50	-27.70	QP
4.	133.517	3.77	12.90	30.19	30.01	16.85	43.50	-26.65	QP
5.	200.265	4.46	11.01	24.50	30.04	9.93	43.50	-33.57	QP
6.	376.407	5.55	14.62	23.24	30.62	12.79	46.00	-33.21	QP

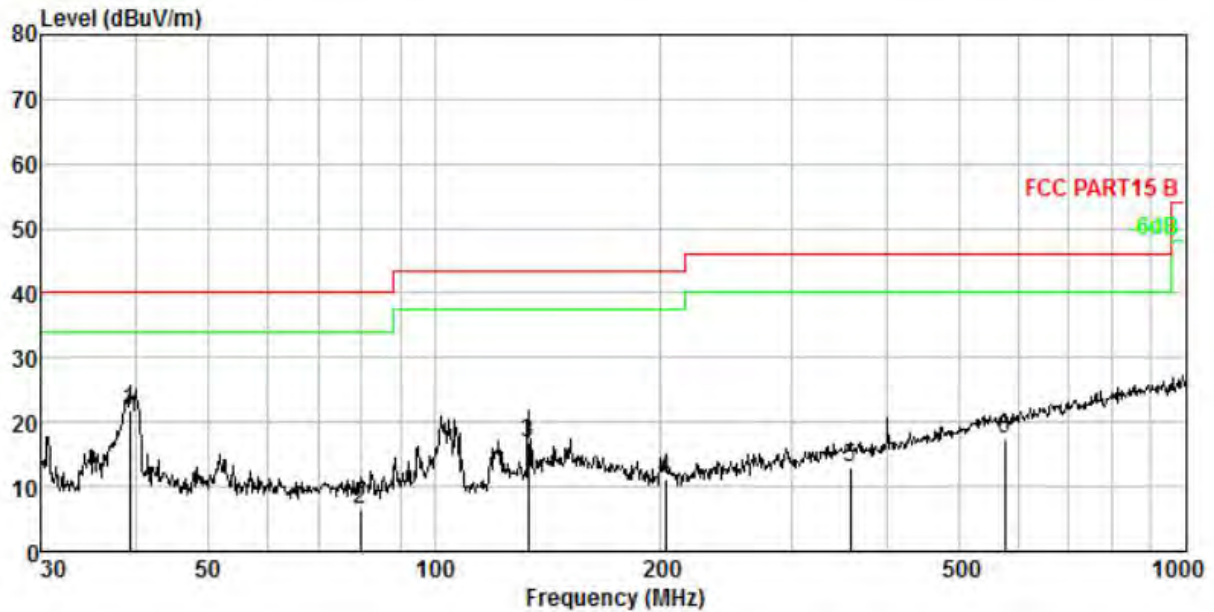
Horizontal:





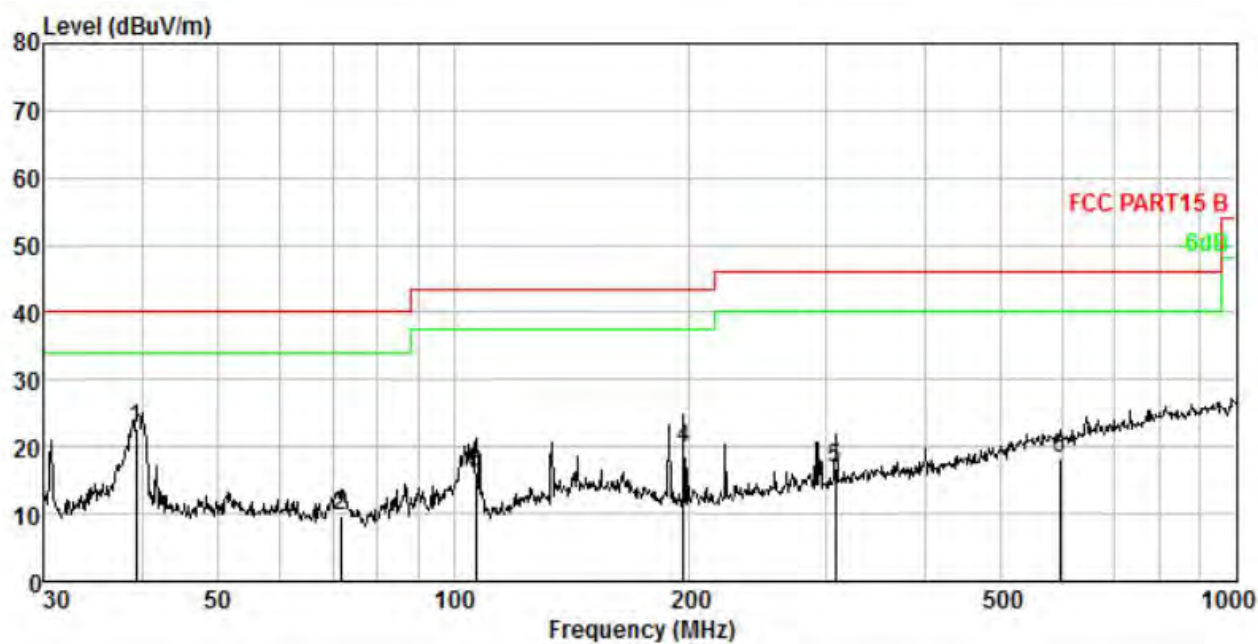
Please refer to the following diagram:SBASL1

Vertical:



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	39.289	1.67	12.11	37.87	29.91	21.74	40.00	-18.26	QP
2.	79.801	2.89	9.02	24.48	29.97	6.42	40.00	-33.58	QP
3.	133.517	3.77	12.90	30.08	30.01	16.74	43.50	-26.76	QP
4.	203.109	4.49	11.10	25.66	30.05	11.20	43.50	-32.30	QP
5.	358.280	5.47	14.47	23.45	30.55	12.84	46.00	-33.16	QP
6.	574.619	6.28	18.60	23.44	30.98	17.34	46.00	-28.66	QP

Horizontal:



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	39.289	1.67	12.11	38.73	29.91	22.60	40.00	-17.40	QP
2.	71.792	2.70	9.84	27.06	29.96	9.64	40.00	-30.36	QP
3.	106.926	3.39	10.44	32.29	29.99	16.13	43.50	-27.37	QP
4.	196.766	4.43	11.23	34.07	30.04	19.69	43.50	-23.81	QP
5.	307.885	5.21	13.40	28.61	30.35	16.87	46.00	-29.13	QP
6.	595.237	6.34	18.68	24.40	31.01	18.41	46.00	-27.59	QP



Test Frequency 1GHz-10GHz:

GLONASS G1

Frequency (MHz)	S.A Reading (dBuV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1610	35.69	AV	V	30.58	4.92	35.87	35.32	54	-18.68
1610	36.15	AV	H	30.58	4.92	35.87	35.78	54	-18.22
1610	41.45	PK	V	30.58	4.92	35.87	41.08	74	-32.92
1610	46.22	PK	H	30.58	4.92	35.87	45.85	74	-28.15
8020	34.28	AV	V	30.76	4.98	35.04	34.98	54	-19.02
8020	35.02	AV	H	30.76	4.98	35.04	35.72	54	-18.28
8020	46.82	PK	V	30.76	4.98	35.04	47.52	74	-26.48
8020	48.12	PK	H	30.76	4.98	35.04	48.82	74	-25.18

GPSL1

Frequency (MHz)	S.A Reading (dBuV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1550	36.21	AV	V	30.63	4.93	35.98	35.79	54	-18.21
1550	37.04	AV	H	30.63	4.93	35.98	36.62	54	-17.38
1550	42.15	PK	V	30.63	4.93	35.98	41.73	74	-32.27
1550	43.68	PK	H	30.63	4.93	35.98	43.26	74	-30.74
7750	35.22	AV	V	30.71	4.97	35.42	35.48	54	-18.52
7750	37.81	AV	H	30.71	4.97	35.42	38.07	54	-15.93
7750	44.29	PK	V	30.71	4.97	35.42	44.55	74	-29.45
7750	47.58	PK	H	30.71	4.97	35.42	47.84	74	-26.16

SBASL1

Frequency (MHz)	S.A Reading (dBuV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1580	34.15	AV	V	31.22	5.10	36.51	33.96	54	-20.04
1580	35.29	AV	H	31.22	5.10	36.51	35.1	54	-18.9
1580	41.02	PK	V	31.22	5.10	36.51	40.83	74	-33.17
1580	42.16	PK	H	31.22	5.10	36.51	41.97	74	-32.03



7590	33.28	AV	V	31.53	5.22	35.16	34.87	54	-19.13
7590	34.35	AV	H	31.53	5.22	35.16	35.94	54	-18.06
7590	42.55	PK	V	31.53	5.22	35.16	44.14	74	-29.86
7590	43.69	PK	H	31.53	5.22	35.16	45.28	74	-28.72

Note: 1. The testing has been conformed to $6 \times 1610\text{Hz} = 9660\text{MHz}$.

2. All other emissions more than 30dB below the limit.

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

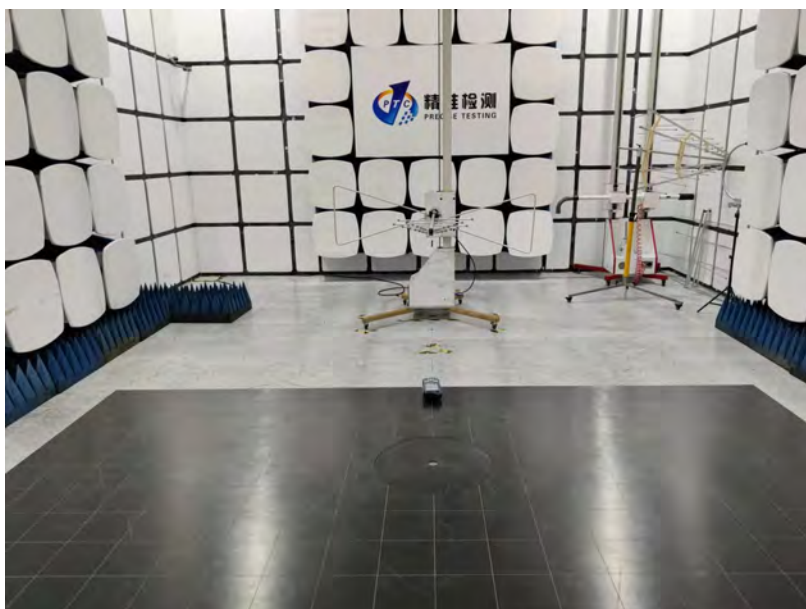
Emission Level = Reading + Factor

Margin=Emission Level-Limit

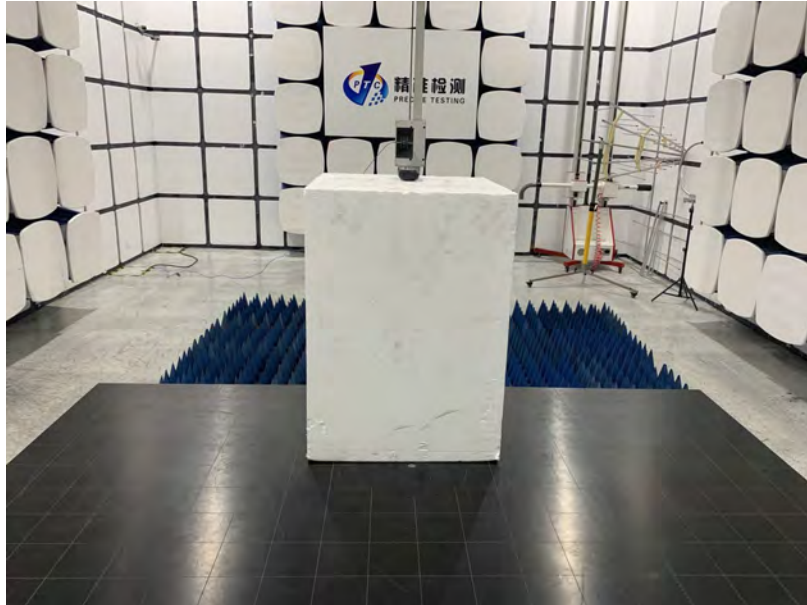
9. PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST From 30MHz-1000MHz

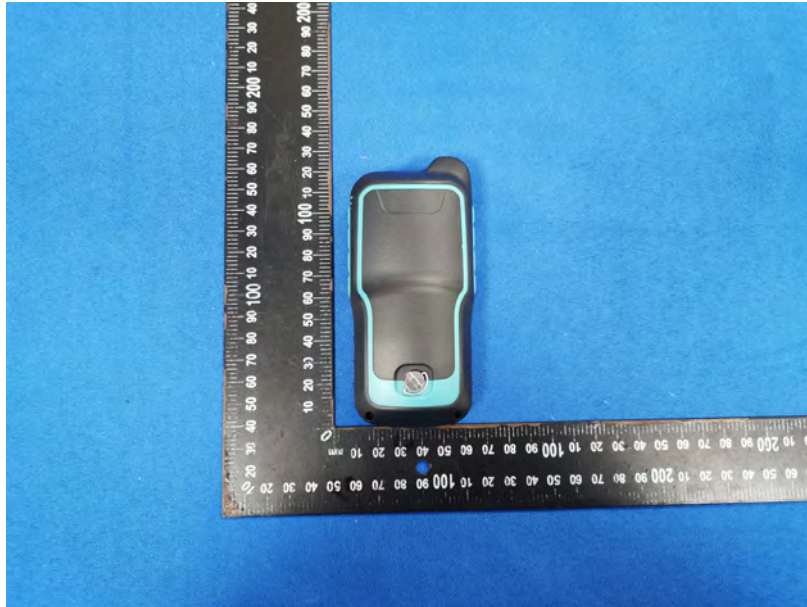


Test frequency from Above 1GHz



10. PHOTOGRAPHS OF EUT



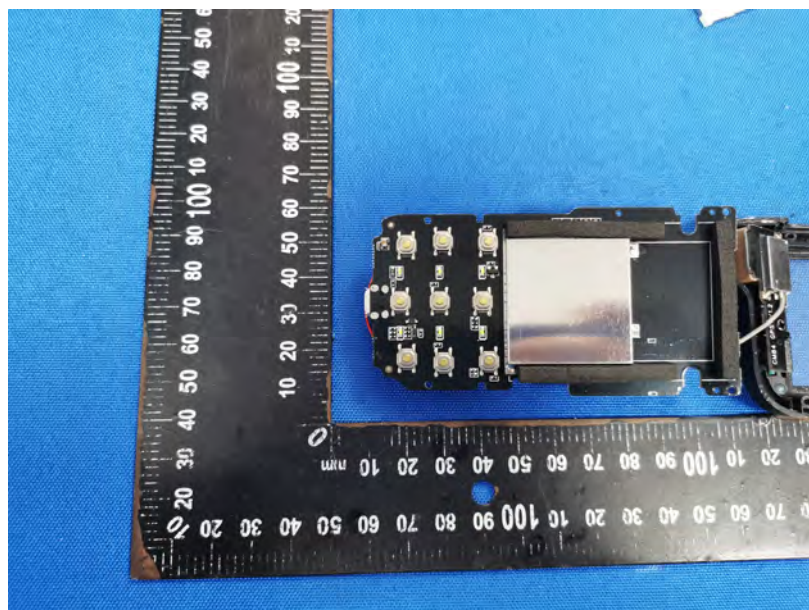


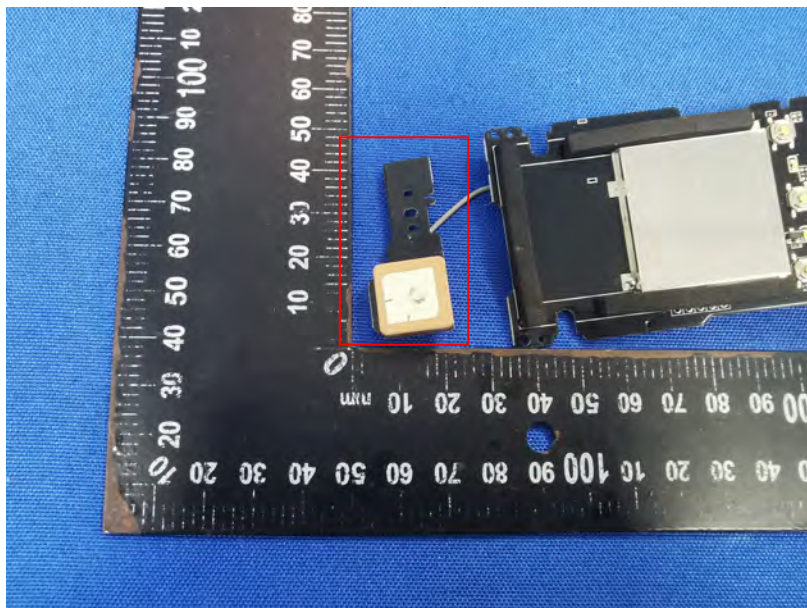
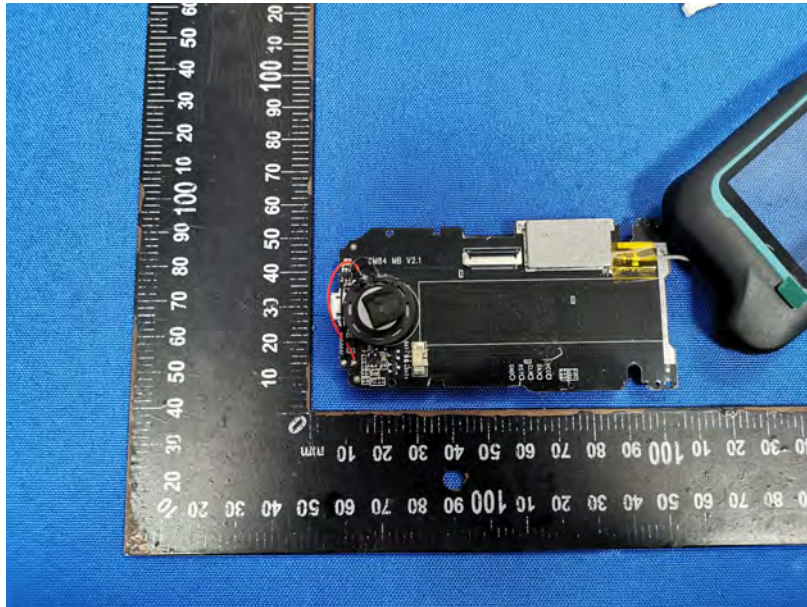




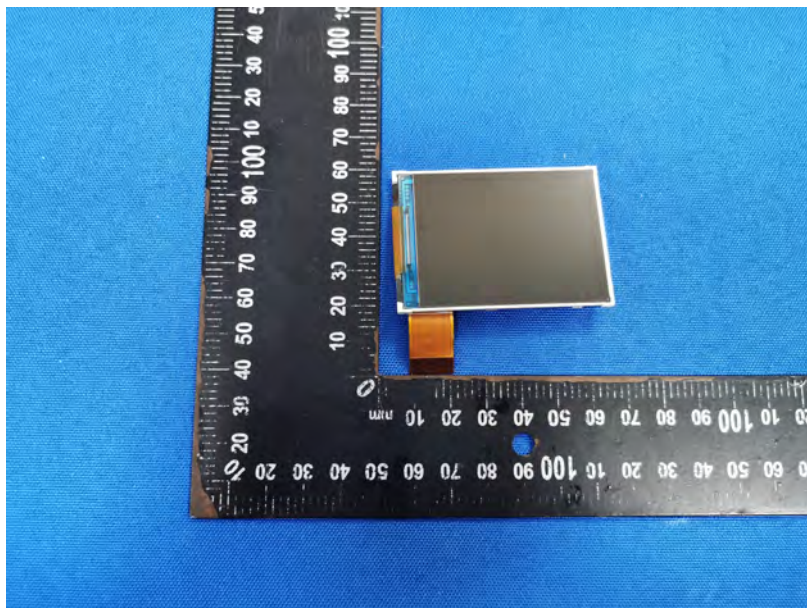
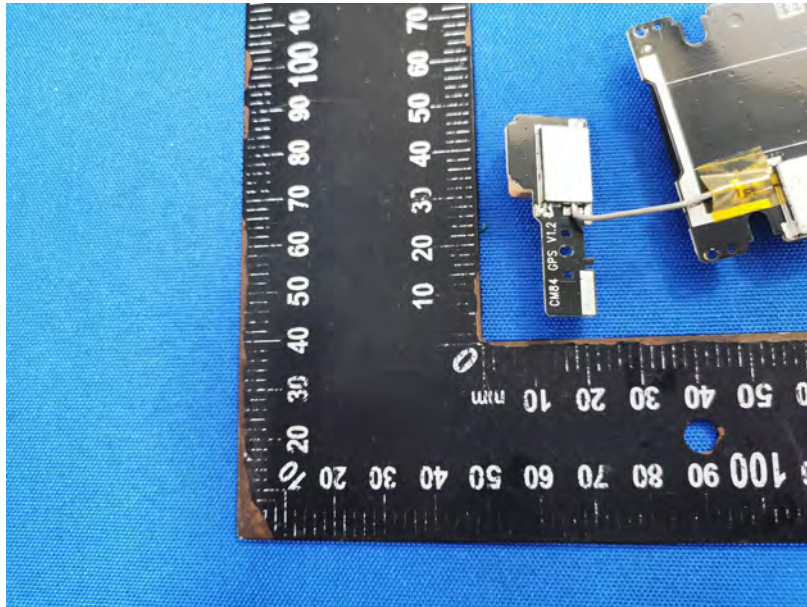


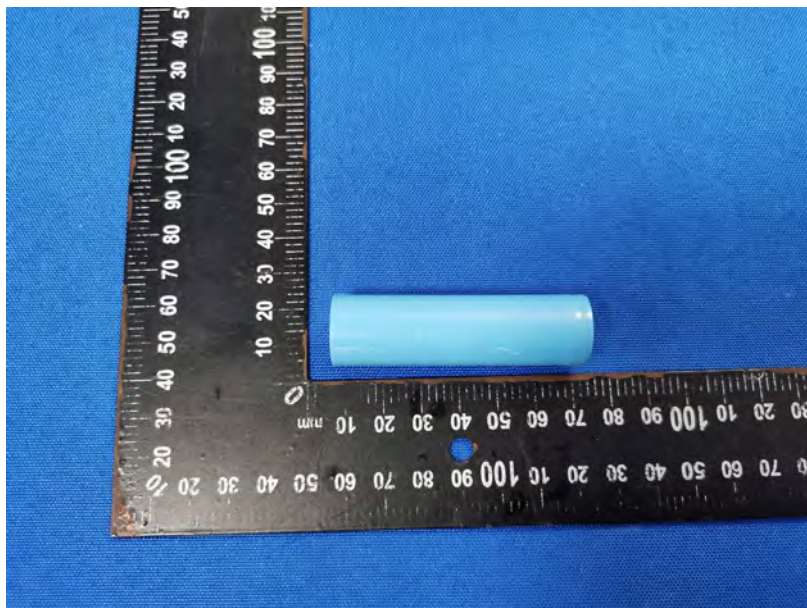
GPS antenna





GPS ANT









11. LABELING REQUIREMENTS

According to FCC Part 15 Section 15.19, a device subject to certification or Supplier's Declaration of Conformity shall be labelled as follows:

“This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

The device shall bear the statement in a conspicuous location on the device.

Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the FCC logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.

Note: The Commission concluded that if the labeling and regulatory information cannot be displayed to the intended recipient “in a manner that effects its purpose,” the device is incapable of digitally displaying the required information as required by the E-LABEL Act. Electronic labeling information must be electronically displayed in a manner that is “clearly legible without the aid of magnification” Similarly, because electronic labels cannot be easily removed or replaced if they are to be effective, manufacturers that choose to display required labeling information electronically must ensure that the information may not be removed or modified by anyone other than the responsible party.



12. INFORMATION TO USER

If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with product at the time of marketing or importation, containing the following information:

- (1) Identification of the product, e.g., name and model number;
- (2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in 15.19(a)(3) of this chapter, that the product complies with the rules; and
- (3) The identification, by name, address and telephone number or Internet contact information, of the responsible party. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

According to FCC Part 15 section 15.21, the users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment".

Also, refer to FCC Part 15 section 15.105, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

"Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.**
- Increase the separation between the equipment and receiver.**
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- Consult the dealer or an experienced radio/TV technician for help."**

— End of report —