



FCC Test Report

Product Name : Rangefinder
Model No. : PandarQT

Applicant : Hesai Photonics Technology Co.,Ltd.
Address : Rm. J385, Building 6, No. 1288, Yecheng Rd.,
Jiading Dist., Shanghai City, China

Date of Receipt : Mar. 13, 2020
Test Date : Mar. 13, 2020
Issued Date : Mar. 16, 2020
Report No. : 2032074E-IT-US-P01V03
Report Version : V3.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Issued Date : Mar.16,2020
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Product Name : Rangefinder
 Applicant : Hesai Photonics Technology Co.,Ltd.
 Address : Rm. J385, Building 6, No. 1288, Yecheng Rd., Jiading Dist.,
 Shanghai City, China
 Manufacturer : Hesai Photonics Technology Co., Ltd.
 Address : Building B, 468 Xinlai Rd, Xuhang Town, Jiading District,
 Shanghai City, China
 Model No. : PandarQT
 Brand Name : HESAI 
 EUT Voltage : AC 100-240V, 50/60Hz
 Test Voltage : AC 120V,60Hz
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2017 Class A
 ICES 003 Issue 6 2019 Class A
 ANSI C63.4: 2014
 Test Result : Complied
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006,
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1. General Information

1.1. EUT Description

Product Name	Rangefinder
Model No.	PandarQT
Brand Name	HESAI 

The GPS hardware in this report is an accessory equipment that does not belong to the EUT in order to simulate the maximum load output for this test. Manufacturer actually ship products to clients without GPS hardware.

1.2. Mode of Operation

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

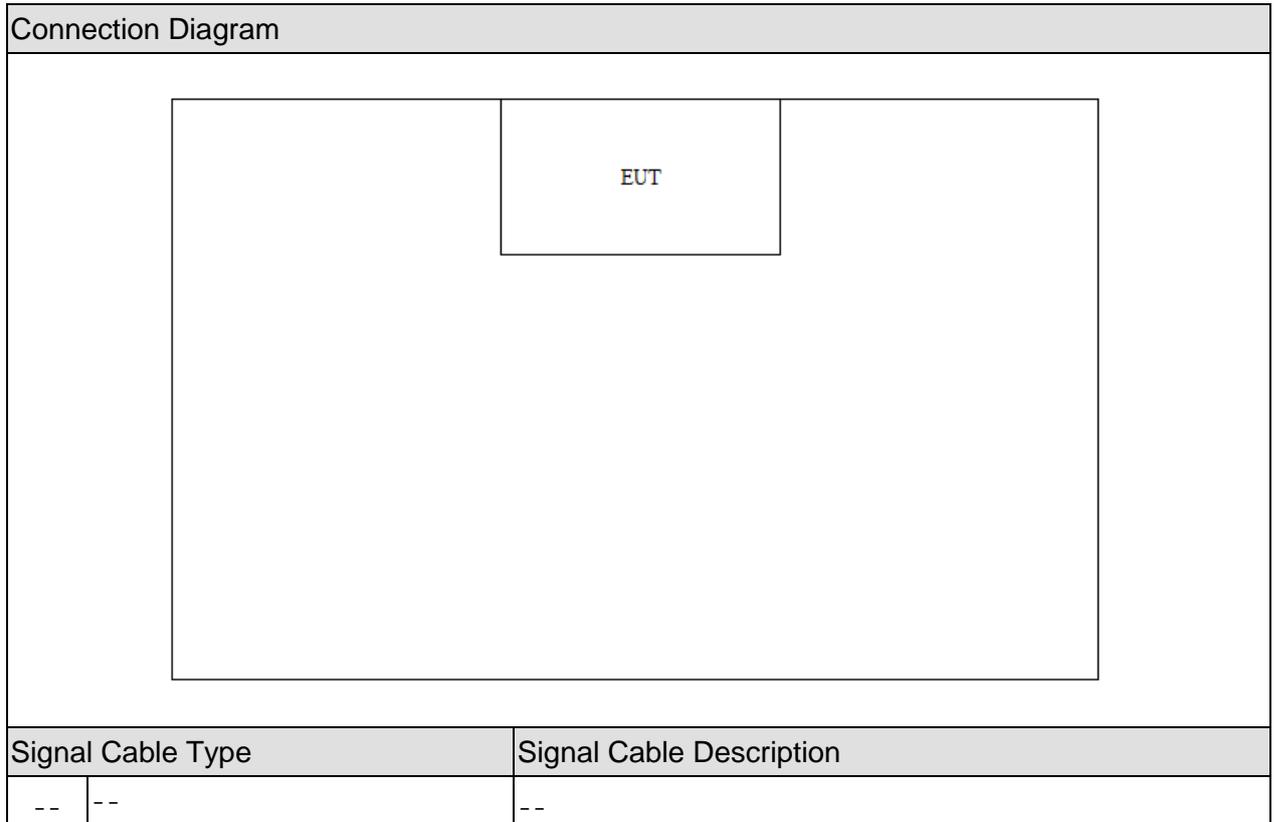
Pre Test Mode
Mode 1: Normal working
Final Test Mode
Mode 1: Normal working

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
--	--	--	--	--	--

1.4. Configuration of Tested System



The network port is for monitoring only.

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Turn on the EUT.
4	Start test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Test Item	Normative References	Test Performed	Deviation
Conducted disturbance	FCC CFR Title 47 Part 15 Subpart B: 2017 Class A ANSI C63.4: 2014	Yes	No
Radiated disturbance	FCC CFR Title 47 Part 15 Subpart B: 2017 Class A ANSI C63.4: 2014	Yes	No

2.2. List of Test Equipment

Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100906	2020.03.04	2021.03.04
Two-Line V-Network	R&S	ENV216	101190	2019.06.09	2020.06.09
Two-Line V-Network	R&S	ENV216	101044	2019.06.09	2020.06.09
Current Probe	R&S	EZ-17	100678	2020.03.07	2021.03.07
50ohm Termination	SHX	TF2	07081402	2019.09.08	2020.09.08
50ohm Termination	SHX	TF2	07081403	2019.09.08	2020.09.08
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Coaxial Cable	Suhner	RG 223	TR1-C1	2019.04.26	2020.04.26
Temperature/Humidity Meter	Ruitesi	RTS-8S	TR1-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC1

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100175	2019.09.08	2020.09.08
EMI Test Receiver	R&S	ESCI	100726	2019.03.18	2020.03.18
Preamplifier	Quietek	AP-025C	CHM-0602008	2019.04.10	2020.04.10
Preamplifier	Quietek	AP-025C	CHM-0503006	2019.04.10	2020.04.10
Bilog Antenna	Schaffner	CBL6112B	2931	2019.05.18	2020.05.18
Bilog Antenna	Schaffner	CBL6112B	2933	2019.05.18	2020.05.18
Coaxial Cable	Huber+Suhner	RG 214_U	AC1-L	2019.10.10	2020.10.10
Coaxial Cable	Huber+Suhner	RG 214_U	AC1-R	2019.10.10	2020.10.10
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC1-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2020.03.04	2021.03.04
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2020.02.28	2021.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC2-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100176	2019.09.08	2020.09.08
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC3-C	2020.02.28	2021.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC3-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2019.06.09	2020.06.09
low Noise Amplifier	BXT	NA2651D	LNA17040209	2019.07.16	2020.07.16

DRG Horn Antenna	ETS-Lindgren	3117	00167055	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.02.28	2021.02.28
Pre-Amplifier	Chengyi	EMC184045SE	980263	2019.09.08	2020.09.08
Coaxial Cable	ROSENBERG ER	LA1-C011-2000/ 3000	AC5-40G	2020.02.28	2021.02.28
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2020.02.23	2021.02.23
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC5-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

2.3. Test Environment

Tests have been performed in a controlled laboratory environment, where the environmental conditions are maintained within the applicable ranges.

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10-40	23
	Humidity (%RH)	25-75	40
	Barometric pressure (mbar)	860-1060	1016
Radiated Emission (30~1000MHz)	Temperature (°C)	10-40	24
	Humidity (%RH)	25-75	41
	Barometric pressure (mbar)	860-1060	1014
Radiated Emission (1~40GHz)	Temperature (°C)	10-40	24
	Humidity (%RH)	25-75	41
	Barometric pressure (mbar)	860-1060	1014

2.4. Measurement Uncertainty

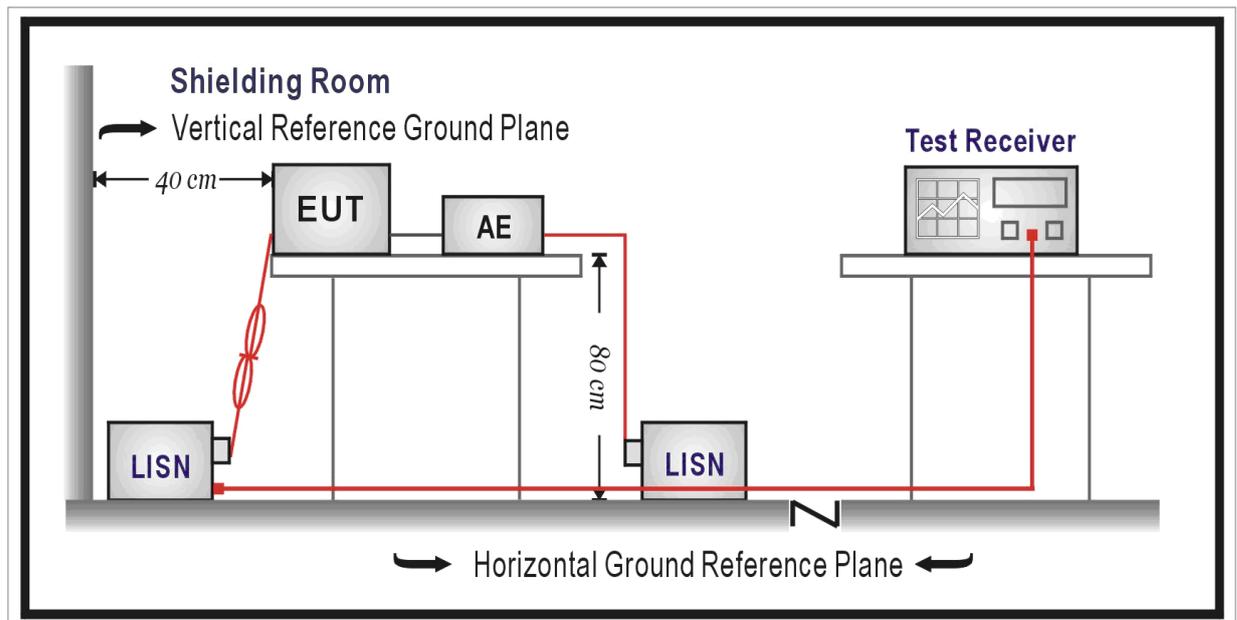
Conducted disturbance / TR1
<p>The maximum measurement uncertainty is evaluated as:</p> <p>9kHz~150kHz: 2.80dB</p> <p>150kHz~30MHz: 2.40dB</p>
Radiated disturbance / AC1
<p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.50 dB</p> <p> 300MHz~1GHz: 3.20 dB</p> <p> 1GHz~18GHz: 4.80 dB</p> <p>Vertical: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.10 dB</p> <p> 1GHz~18GHz: 4.50 dB</p>
Radiated disturbance / AC2
<p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.10 dB</p> <p>Vertical: 30MHz~300MHz: 3.20 dB</p> <p> 300MHz~1GHz: 3.20 dB</p>
Radiated disturbance / AC3
<p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.50 dB</p> <p> 300MHz~1GHz: 3.60 dB</p> <p>Vertical: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.50 dB</p>
Radiated disturbance / AC5
<p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.90 dB</p> <p> 300MHz~1GHz: 3.60 dB</p> <p> 1GHz~18GHz: 5.00 dB</p> <p>Vertical: 30MHz~300MHz: 3.80 dB</p> <p> 300MHz~1GHz: 3.50 dB</p> <p> 1GHz~18GHz: 4.80 dB</p>

3. Conducted disturbance

3.1. Test Specification

According to Standard: FCC Part 15.107 Class A, ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits for conducted disturbance of class A ITE		
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60

NOTE: The lower limit shall apply at the transition frequency.

Limits for conducted disturbance of class B ITE		
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

NOTE 1: The lower limit shall apply at the transition frequencies.
 NOTE 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω / 50μH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω / 50μH coupling impedance with 50Ω termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

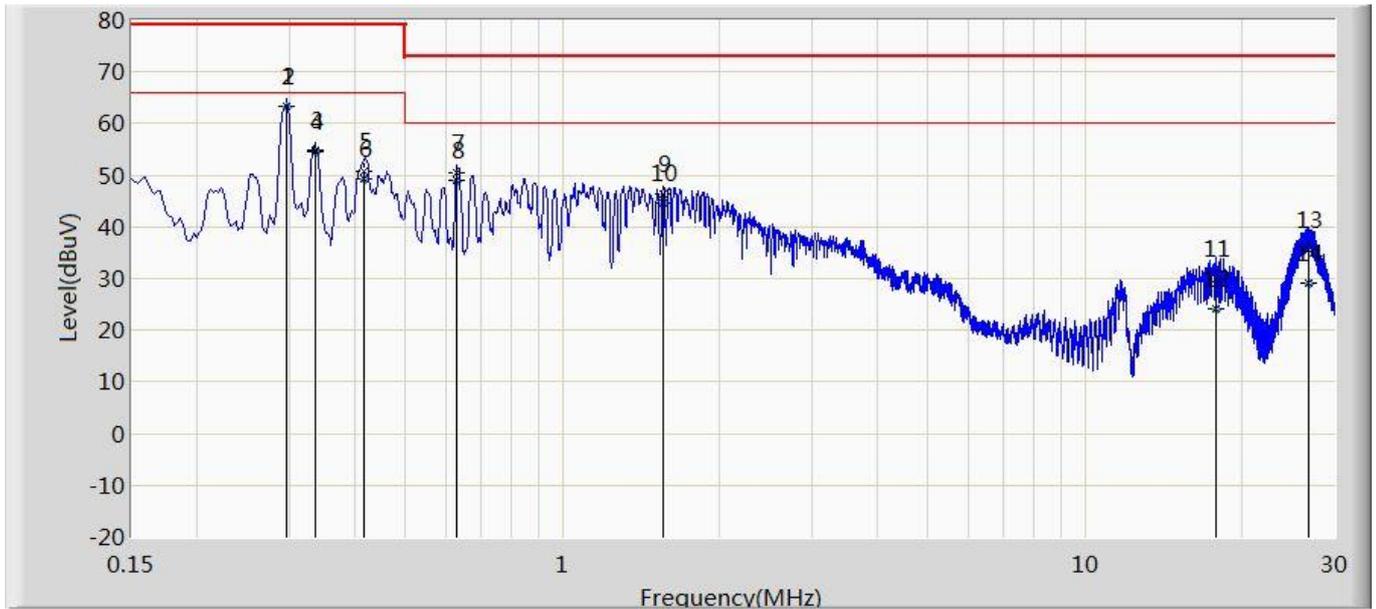
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

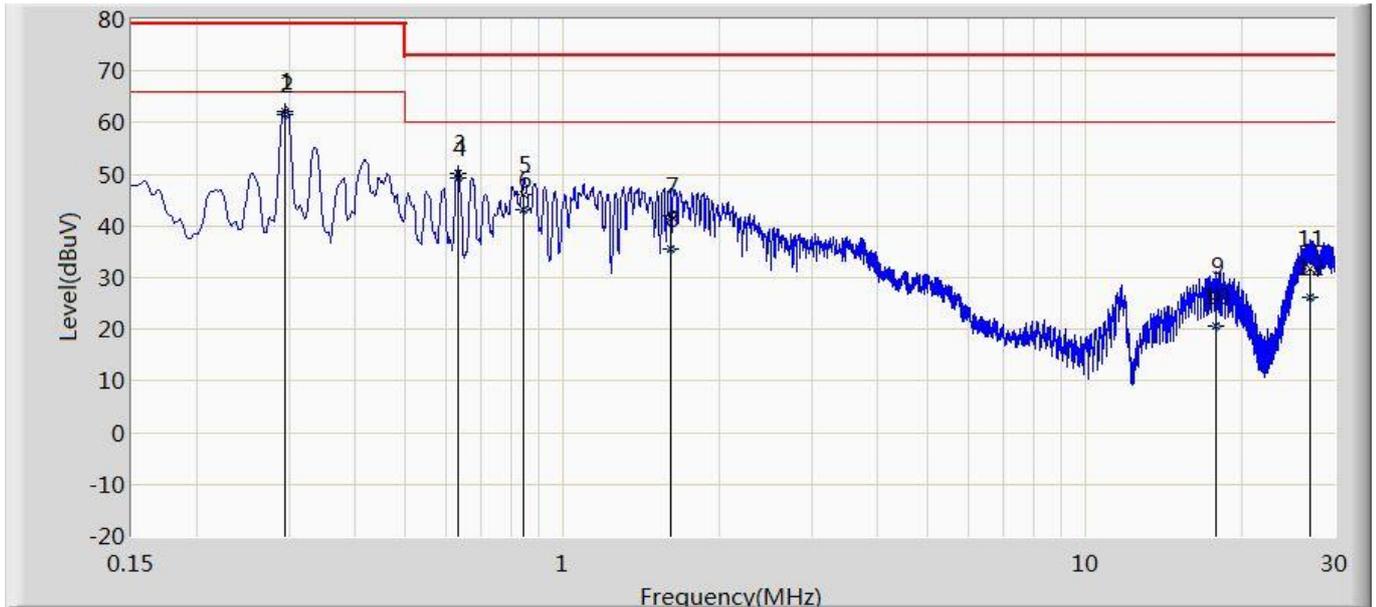
3.6. Test Result

Engineer: Beck	
Site: TR1	Time: 2020/03/13
Limit: FCC_Part15.107_CE_AC Power_ClassA	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.296	63.283	53.649	-15.717	79.000	9.600	0.034	0.000	QP
2	*	0.296	63.254	53.620	-2.746	66.000	9.600	0.034	0.000	AV
3		0.337	54.771	45.136	-24.229	79.000	9.600	0.035	0.000	QP
4		0.337	54.518	44.883	-11.482	66.000	9.600	0.035	0.000	AV
5		0.418	50.846	41.207	-28.154	79.000	9.600	0.039	0.000	QP
6		0.418	49.192	39.553	-16.808	66.000	9.600	0.039	0.000	AV
7		0.629	50.330	40.682	-22.670	73.000	9.600	0.048	0.000	QP
8		0.629	49.090	39.442	-10.910	60.000	9.600	0.048	0.000	AV
9		1.561	46.332	36.647	-26.668	73.000	9.610	0.075	0.000	QP
10		1.561	44.671	34.986	-15.329	60.000	9.610	0.075	0.000	AV
11		17.770	30.021	19.717	-42.979	73.000	10.033	0.271	0.000	QP
12		17.770	24.010	13.706	-35.990	60.000	10.033	0.271	0.000	AV
13		26.689	35.635	24.860	-37.365	73.000	10.439	0.335	0.000	QP
14		26.689	29.038	18.263	-30.962	60.000	10.439	0.335	0.000	AV

Engineer: Beck	
Site: TR1	Time: 2020/03/13
Limit: FCC_Part15.107_CE_AC Power_ClassA	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.294	62.094	52.463	-16.906	79.000	9.596	0.034	0.000	QP
2	*	0.294	61.613	51.983	-4.387	66.000	9.596	0.034	0.000	AV
3		0.634	50.292	40.654	-22.708	73.000	9.590	0.048	0.000	QP
4		0.634	49.315	39.677	-10.685	60.000	9.590	0.048	0.000	AV
5		0.845	46.062	36.418	-26.938	73.000	9.590	0.054	0.000	QP
6		0.845	43.155	33.511	-16.845	60.000	9.590	0.054	0.000	AV
7		1.610	42.049	32.370	-30.951	73.000	9.602	0.076	0.000	QP
8		1.610	35.653	25.975	-24.347	60.000	9.602	0.076	0.000	AV
9		17.772	26.625	16.272	-46.375	73.000	10.082	0.271	0.000	QP
10		17.772	20.610	10.257	-39.390	60.000	10.082	0.271	0.000	AV
11		26.887	31.640	20.666	-41.360	73.000	10.637	0.337	0.000	QP
12		26.887	26.117	15.143	-33.883	60.000	10.637	0.337	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Test Photograph

Test Mode: Mode 1

Description: Front View of Conducted disturbance Test Setup



Test Mode: Mode 1

Description: Side View of Conducted disturbance Test Setup



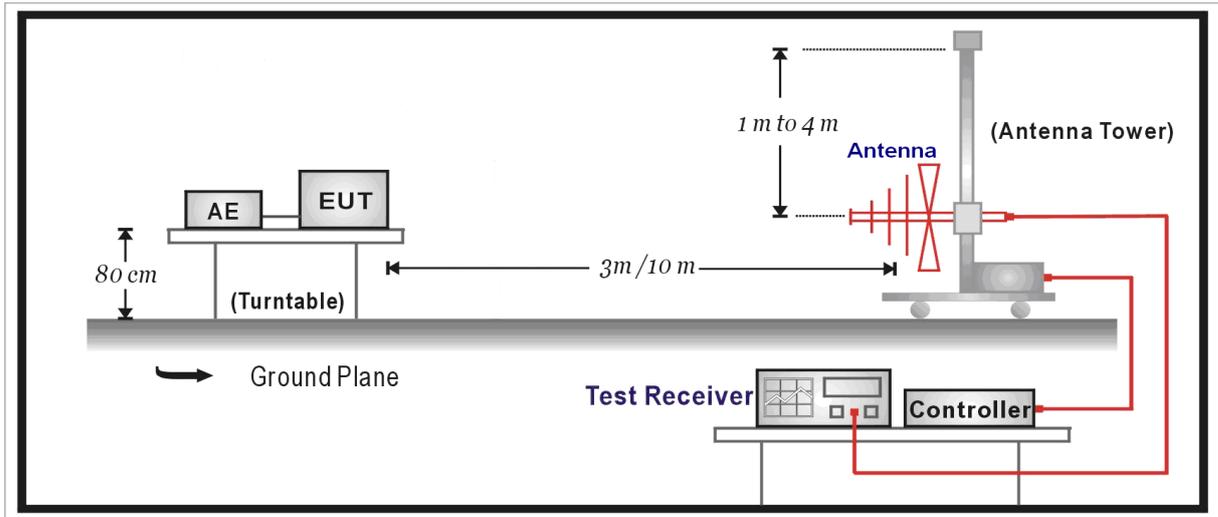
4. Radiated disturbance

4.1. Test Specification

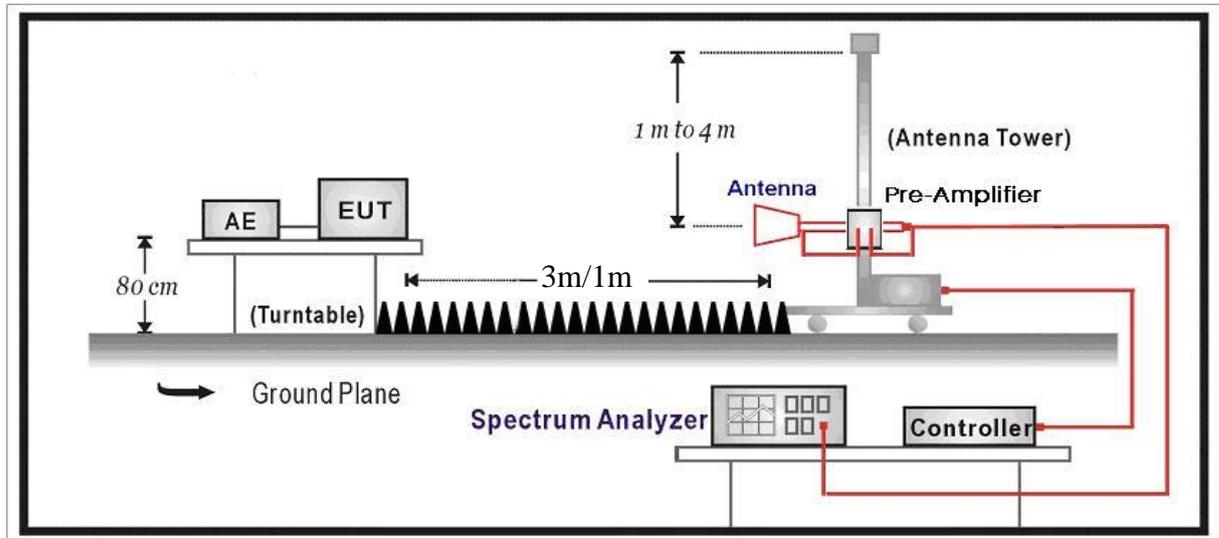
According to Standard: FCC Part 15.109 Class A, ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



4.3. Limit

Limits for Radiated disturbance of class A ITE at a measuring distance of 10m	
Frequency of Emission (MHz)	Field Strength dB(μ V/m)
30 to 88	39
88 to 216	43.5
216 to 960	46.4
Above 960	49.5

NOTE: The lower limit shall apply at the transition frequency.

Limits for Radiated disturbance of class A ITE at a measuring distance of 3m	
Frequency of Emission (MHz)	Field Strength dB(μ V/m)
1000 to 18000	60

NOTE: The lower limit shall apply at the transition frequency.

Limits for Radiated disturbance of class A ITE at a measuring distance of 1m	
Frequency of Emission (MHz)	Field Strength dB(μ V/m)
18000 to 40000	69.5

NOTE: The lower limit shall apply at the transition frequency.

Limits for Radiated disturbance of class B ITE at a measuring distance of 3m	
Frequency of Emission (MHz)	Field Strength dB(μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
960 to 18000	54

NOTE: The lower limit shall apply at the transition frequency.

Limits for Radiated disturbance of class B ITE at a measuring distance of 1m	
Frequency of Emission (MHz)	Field Strength dB(µV/m)
18000-40000	63.5
NOTE: The lower limit shall apply at the transition frequency.	

4.4. Test Procedure

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be changed during radiated measurement.

The bandwidth below 1GHz setting on the receiver is 120kHz and above 1GHz is 1MHz.

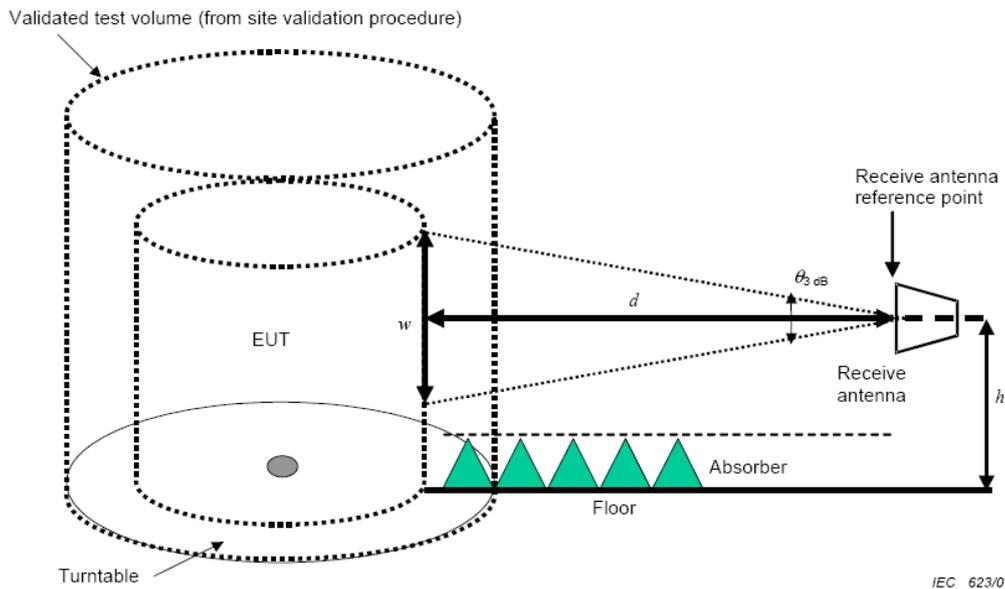
For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

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

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

The radiated field measurement method above 1 GHz is based on measurement of the maximum electric field emitted from the EUT as shown below



Measurement method above 1 GHz, receive antenna in vertical polarization

● **Definitions referring to Figure**

Validated test volume: The volume validated during the site validation procedure (see 8.3.3of CISPR 16-1-4). Typically, this is the largest diameter EUT that can be used in the test facility.

EUT: The smallest diameter cylinder that will fully encompass all portions of the actual EUT, including cable racks and a minimum length of 30 cm of cables. The EUT that is located within this cylinder must be capable of rotating about its centre (typically by aremotely controlled turntable). The EUT must be located within the validated test volume. A maximum of 30 cm of ω (see definition of ω below) may be below the height of absorbers on the floor only when the EUT is floor standing and cannot be raised above the height of the absorbers.

$\theta_{3\text{ dB}}$: The minimum 3 dB beamwidth of the receive antenna at each frequency of interest. $\theta_{3\text{ dB}}$ is the minimum of both the E-plane and H-plane values at each frequency. $\theta_{3\text{ dB}}$ may be obtained from manufacturer provided data for the receive antenna.

d: The measurement distance (in meters). This is measured as the horizontal distance between the periphery of the EUT and the reference point of the receive antenna.

ω : The dimension of the line tangent to the EUT formed by $\theta_{3\text{ dB}}$ at the measurement distance d. Equation (10) shall be used to calculate ω for each actual antenna and measurement distance used. The values of ω shall be included in the test report. This calculation may be based on the manufacturer-provided receive-antenna beamwidth specifications:

$$\omega = 2 \times d \times \tan (0,5 \times \theta_{3\text{ dB}})$$

DRG Horn Antenna (M/N: 3117) test dimension of ω

Frequency GHz	θ 3 dB (min) °	ω m
1	90	6.00
2	60	3.46
3	75	4.60
4	60	3.46
5	60	3.46
6	50	2.80
7	45	2.49
8	40	2.18
9	35	1.89
10	30	1.61
11	35	1.89
12	40	2.18
13	35	1.89
14	35	1.89
15	35	1.89
16	35	1.89
17	30	1.61
18	20	1.06

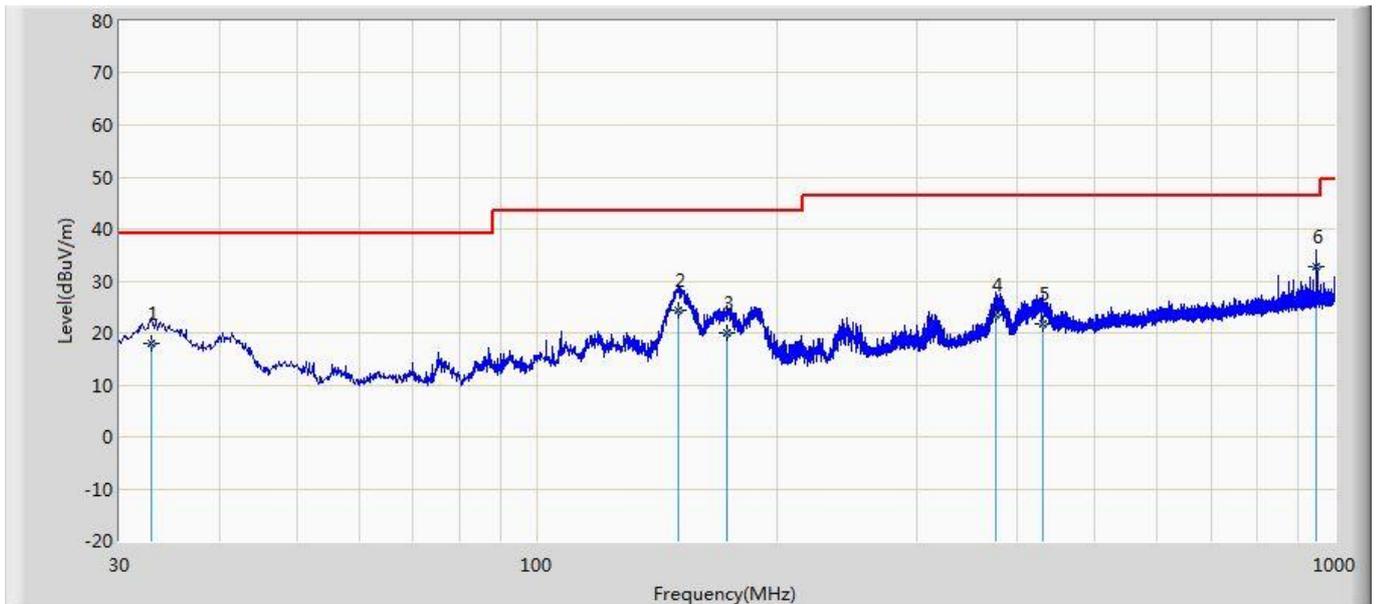
Note: The antenna's moving up and down is determined by ω value for above 1GHz, to ensure that the acceptable range of the testing antenna can cover the whole range of EUT.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Engineer: Beck	
Site: AC1	Time: 2020/03/13
Limit: FCC_Part15.109_RE(10m)_ClassA	Margin: 0
Probe: CBL6112B_2931(30-1000MHz)	Polarity: Horizontal
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	

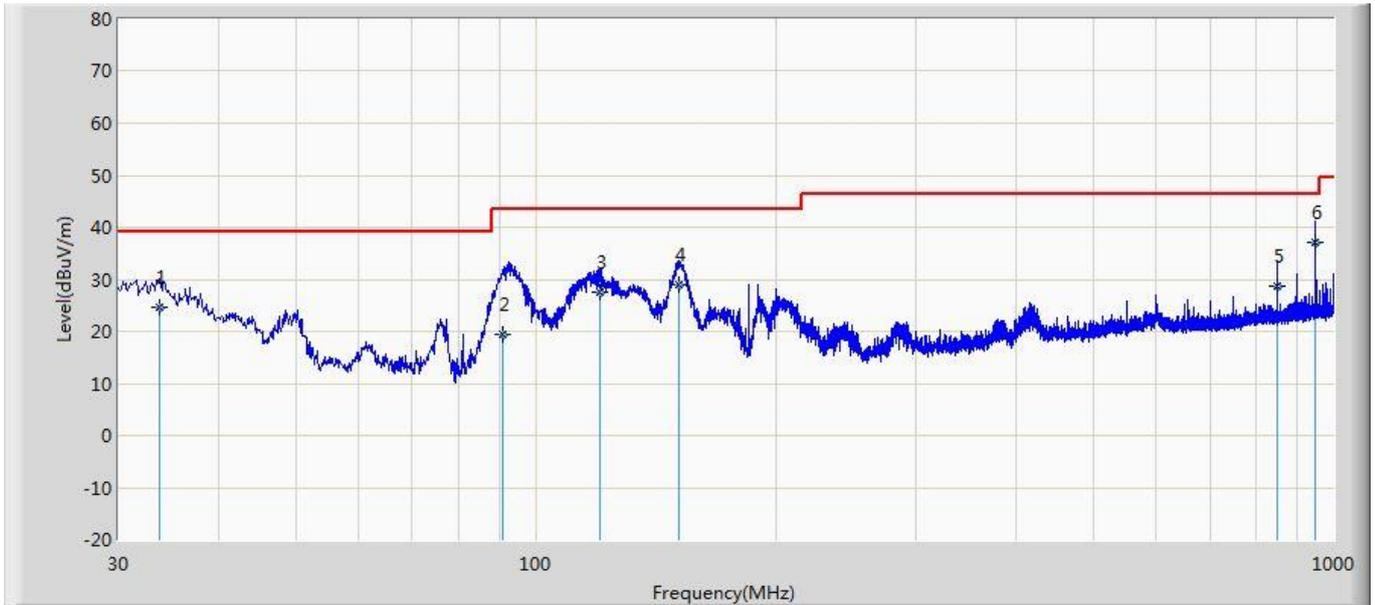


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		32.910	17.993	23.511	-21.007	39.000	15.131	1.008	21.657	100	155	QP
2		150.644	24.350	32.611	-19.150	43.500	11.029	2.333	21.624	200	168	QP
3		173.439	19.897	29.454	-23.603	43.500	9.531	2.522	21.610	100	248	QP
4		377.017	23.334	25.541	-23.066	46.400	15.103	3.960	21.270	100	6	QP
5		431.580	21.746	22.414	-24.654	46.400	16.174	4.301	21.143	100	188	QP
6	*	950.045	32.736	25.444	-13.664	46.400	20.450	6.957	20.115	100	142	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Beck	
Site: AC1	Time: 2020/03/13
Limit: FCC_Part15.109_RE(10m)_ClassA	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Vertical
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	

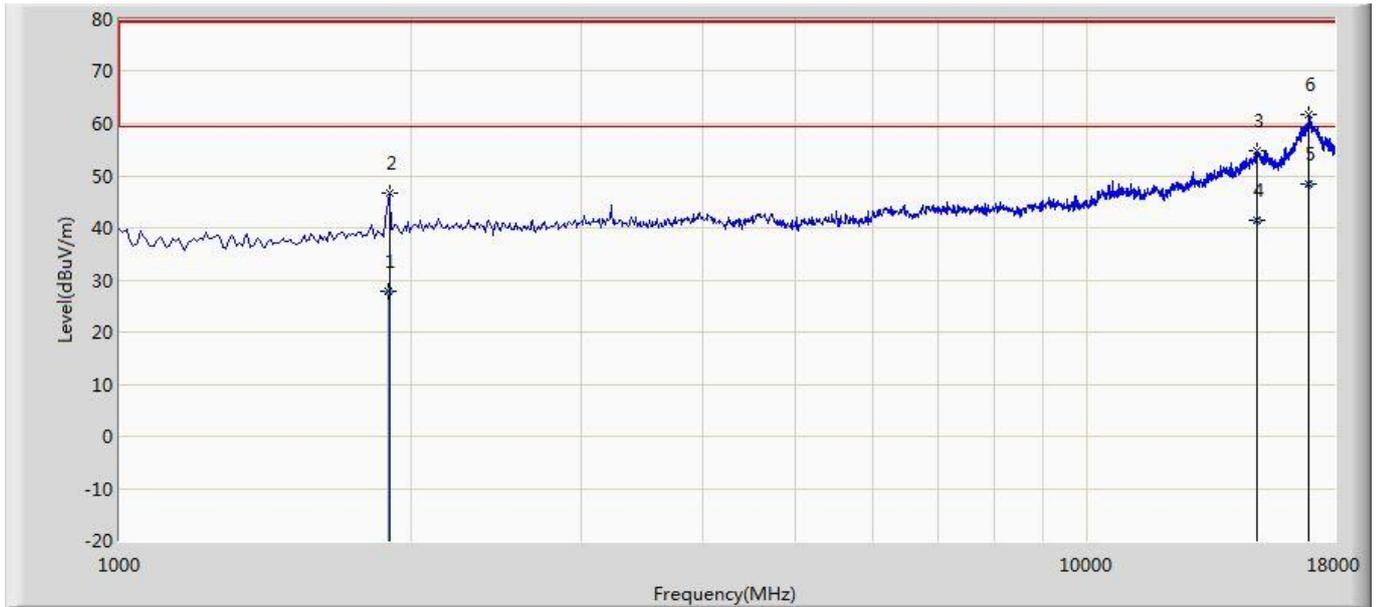


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		33.759	24.691	31.544	-14.309	39.000	14.822	1.147	22.822	100	288	QP
2		90.868	19.432	31.400	-24.068	43.500	8.913	1.964	22.844	200	207	QP
3		120.210	27.561	35.454	-15.939	43.500	12.675	2.289	22.857	100	319	QP
4		151.371	29.068	38.454	-14.432	43.500	10.850	2.605	22.842	200	39	QP
5		850.014	28.611	23.611	-17.789	46.400	19.800	7.195	21.995	200	304	QP
6	*	950.045	37.150	30.800	-9.250	46.400	20.550	7.716	21.917	200	185	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Beck	
Site: AC5	Time: 2020/03/13
Limit: FCC_Part15.109_RE(3m)_ClassA	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	

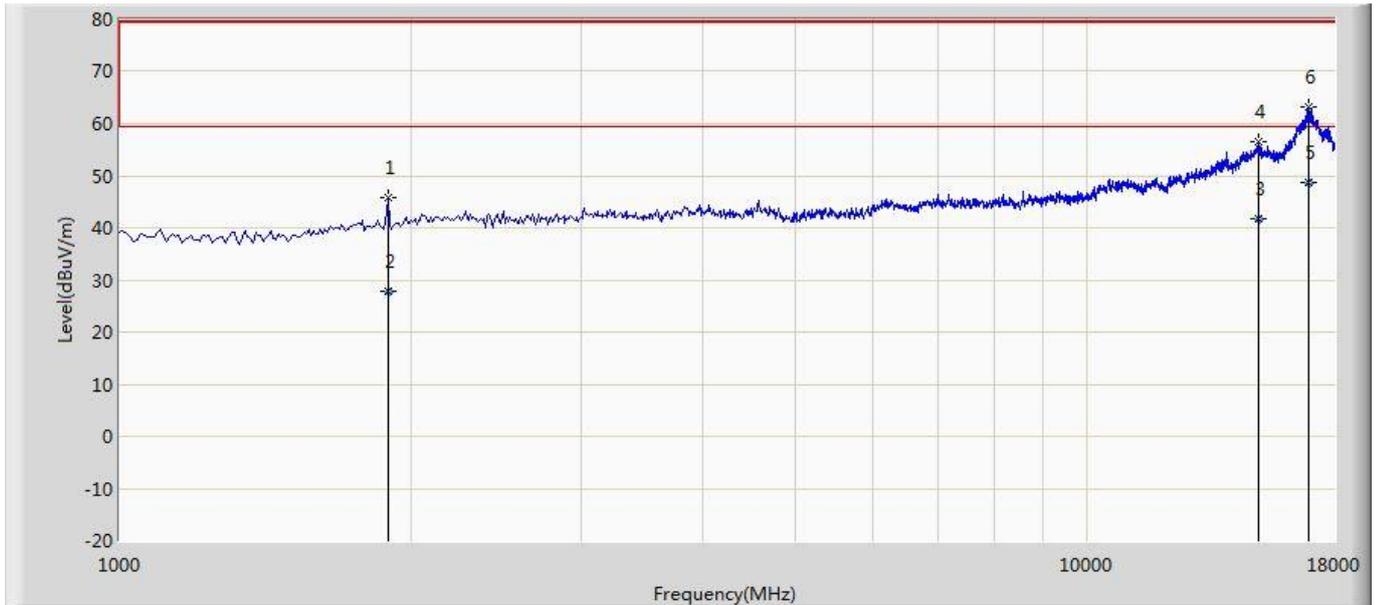


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1893.390	27.771	27.046	-31.729	59.500	31.311	3.313	33.899	100	115	AV
2		1901.000	46.689	45.962	-32.811	79.500	31.367	3.320	33.960	100	115	PK
3		14982.500	54.785	34.501	-24.715	79.500	40.972	13.175	33.862	100	310	PK
4		14983.300	41.570	21.299	-17.930	59.500	40.973	13.175	33.878	100	310	AV
5	*	16937.400	48.490	22.430	-11.010	59.500	41.225	17.948	33.113	100	213	AV
6		16937.500	61.786	35.727	-17.714	79.500	41.225	17.949	33.115	100	213	PK

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer:	
Site: AC5	Time: 2020/03/13
Limit: FCC_Part15.109_RE(3m)_ClassA	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1892.500	45.736	45.011	-33.764	79.500	31.305	3.312	33.892	100	210	PK
2		1893.090	27.746	27.021	-31.754	59.500	31.309	3.313	33.897	100	210	AV
3		15038.700	41.849	21.281	-17.651	59.500	40.930	13.193	33.555	100	302	AV
4		15042.000	56.488	35.862	-23.012	79.500	40.924	13.189	33.487	100	302	PK
5	*	16923.190	48.602	22.428	-10.898	59.500	41.230	17.863	32.920	100	215	AV
6		16929.000	63.048	36.863	-16.452	79.500	41.228	17.898	32.941	100	215	PK

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4.7. Test Photograph

Test Mode: Mode 1

Description: Front View of Radiated disturbance Test Setup (Below 1GHz)



Test Mode: Mode 1

Description: Rear View of Radiated disturbance Test Setup (Below 1GHz)



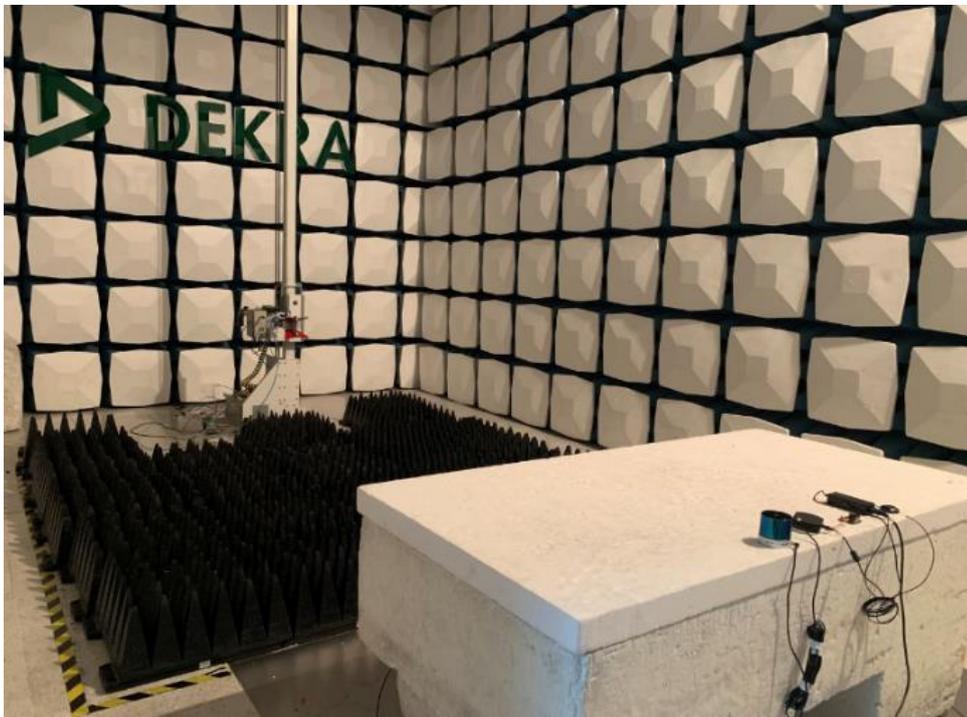
Test Mode: Mode 1

Description: Front View of Radiated disturbance Test Setup (Above 1GHz)



Test Mode: Mode 1

Description: Rear View of Radiated disturbance Test Setup (Above 1GHz)



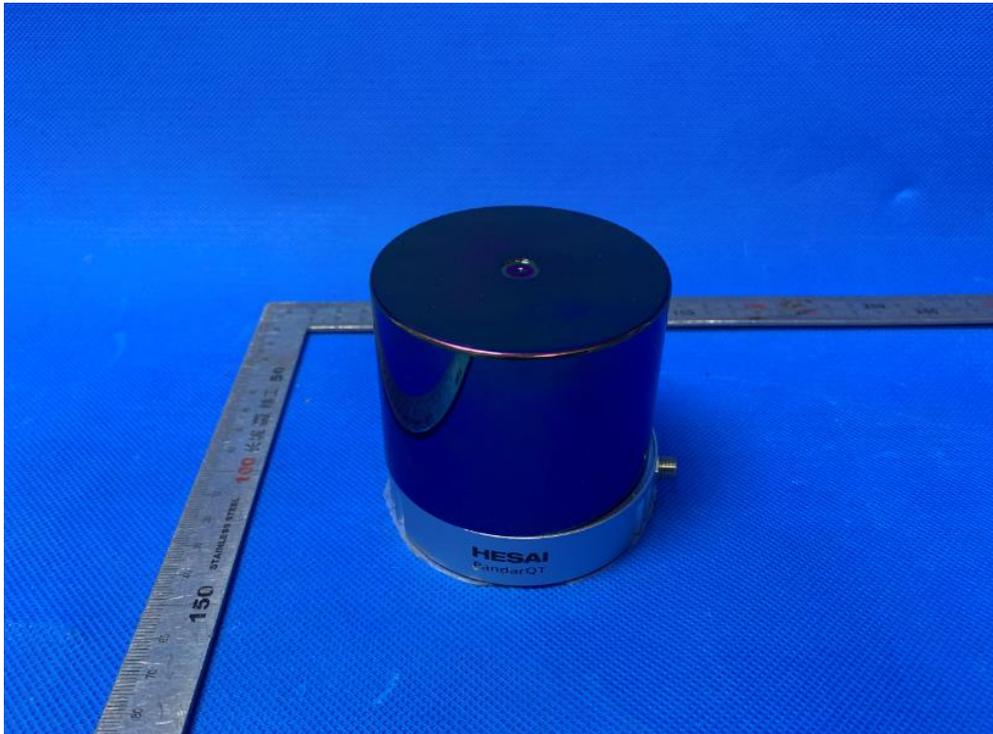
5. Attachment

EUT Photograph

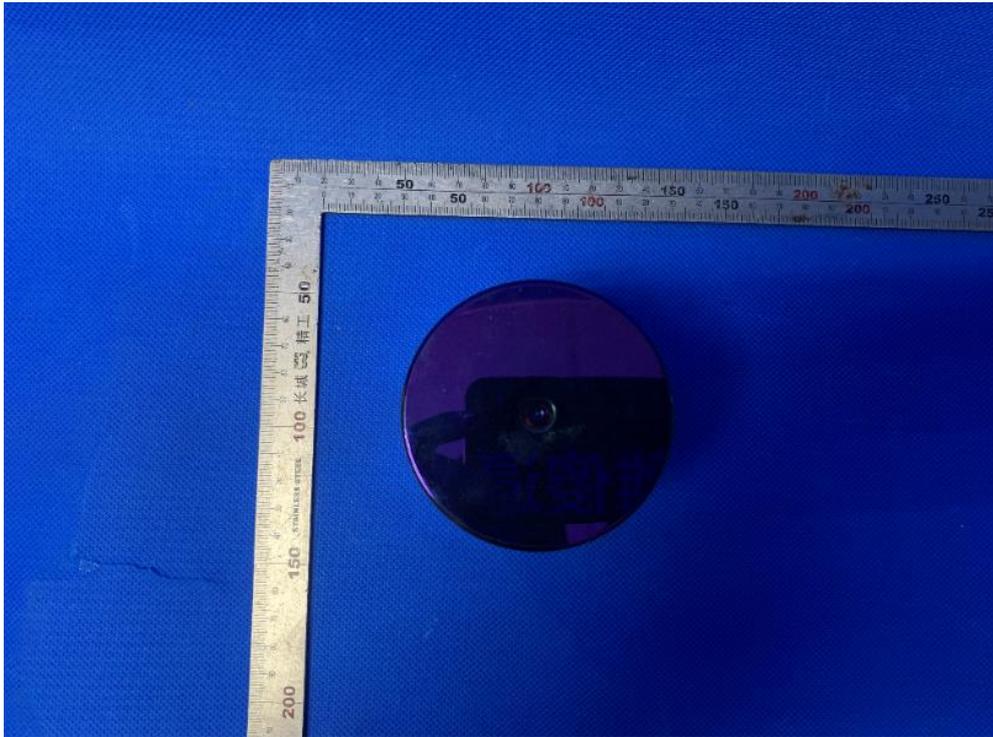
(1) EUT Photo



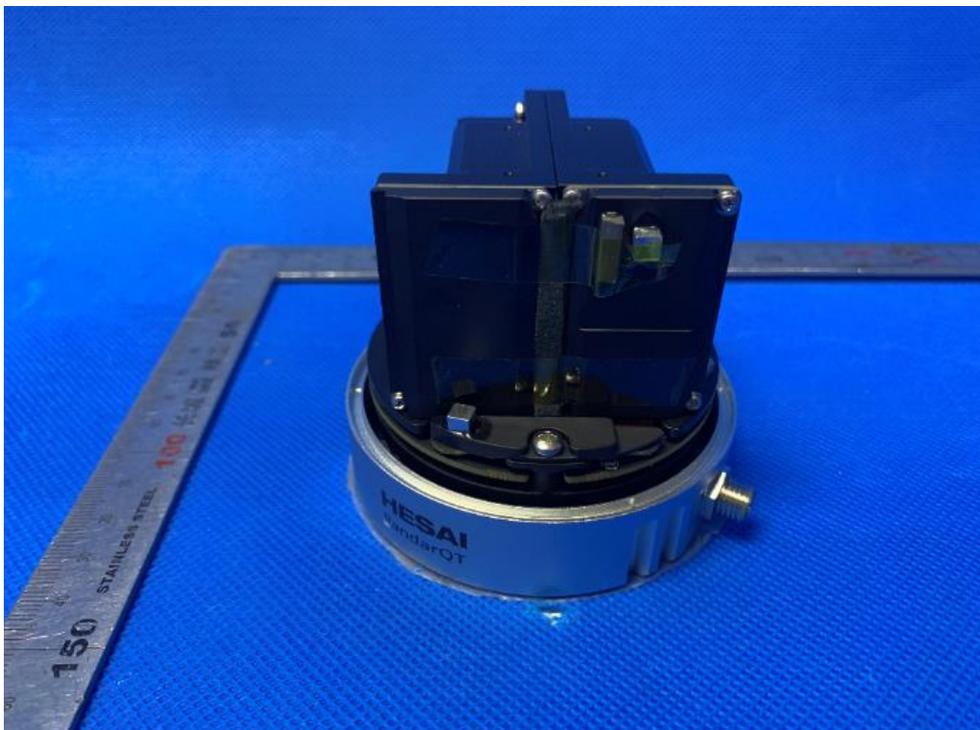
(2) EUT Photo



(3) EUT Photo



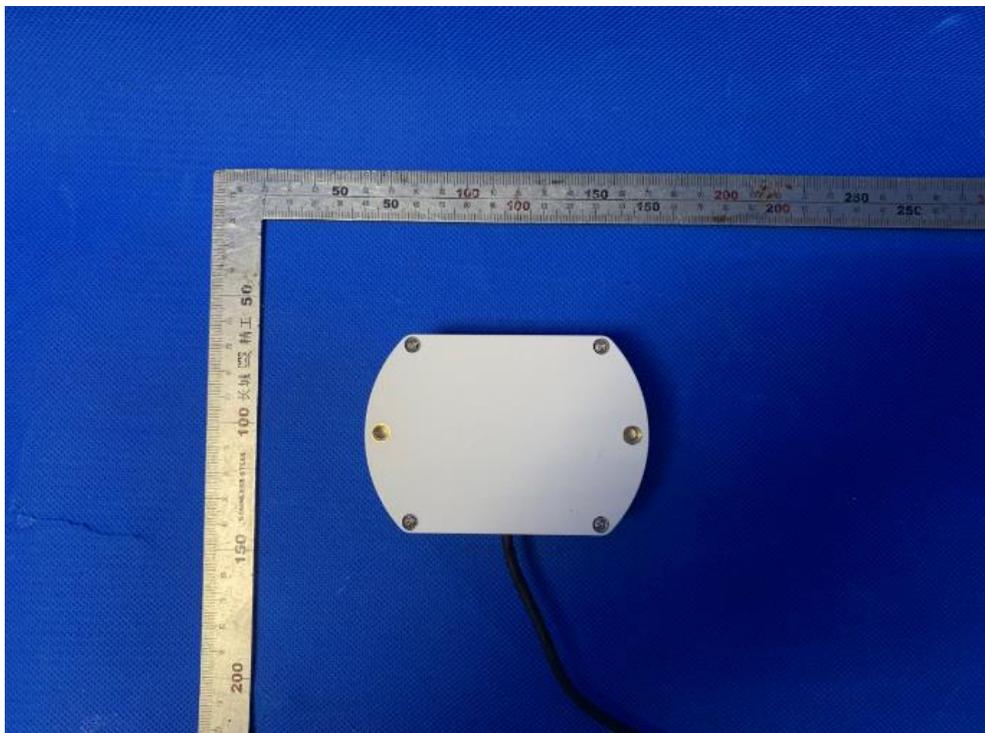
(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



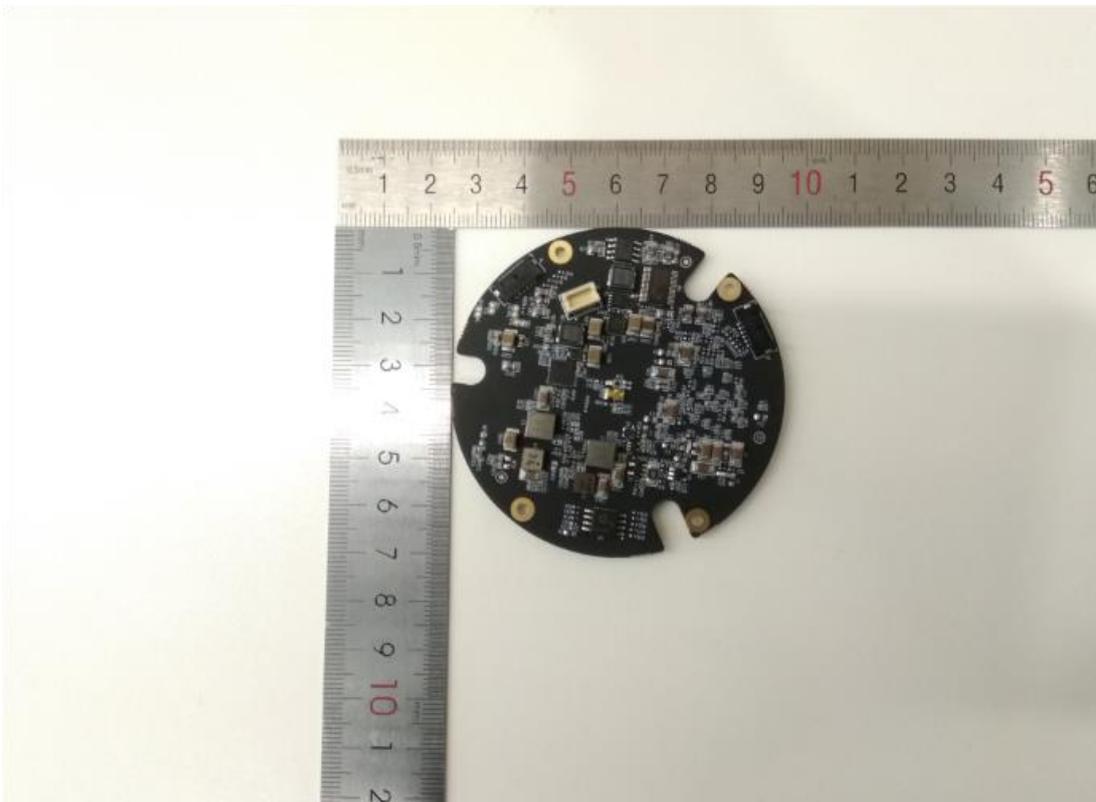
(8) EUT Photo



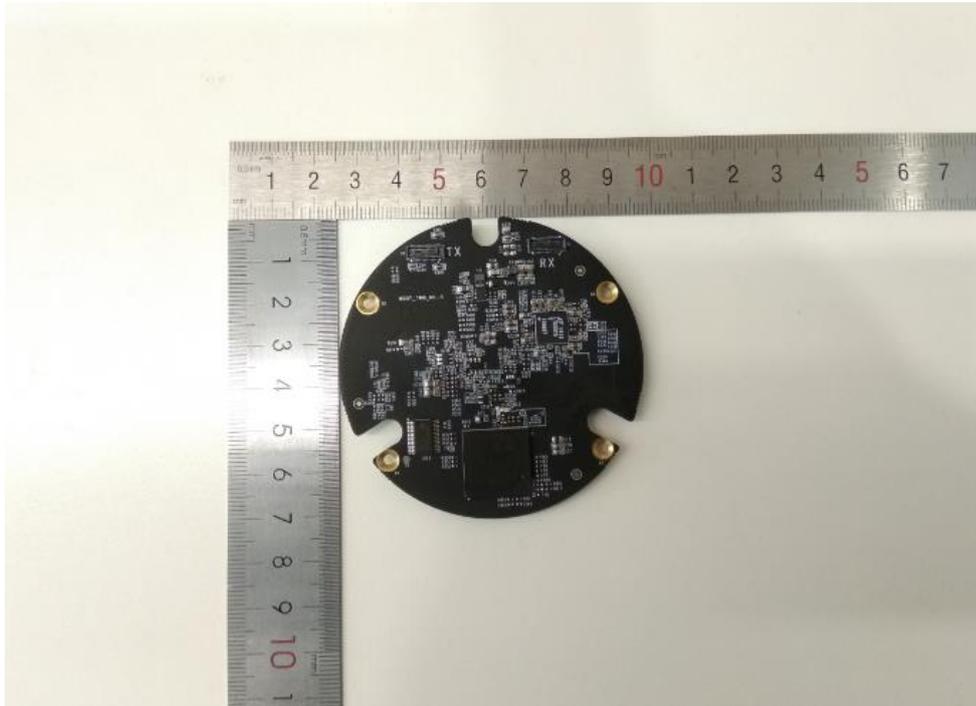
(9) EUT Photo



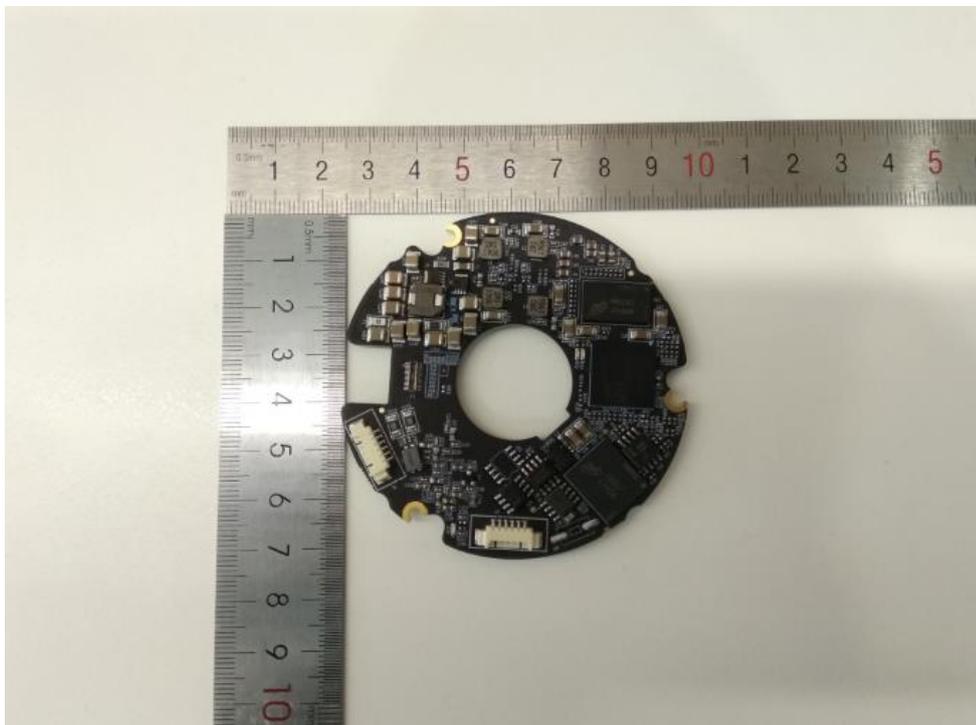
(10) EUT Photo



(11) EUT Photo



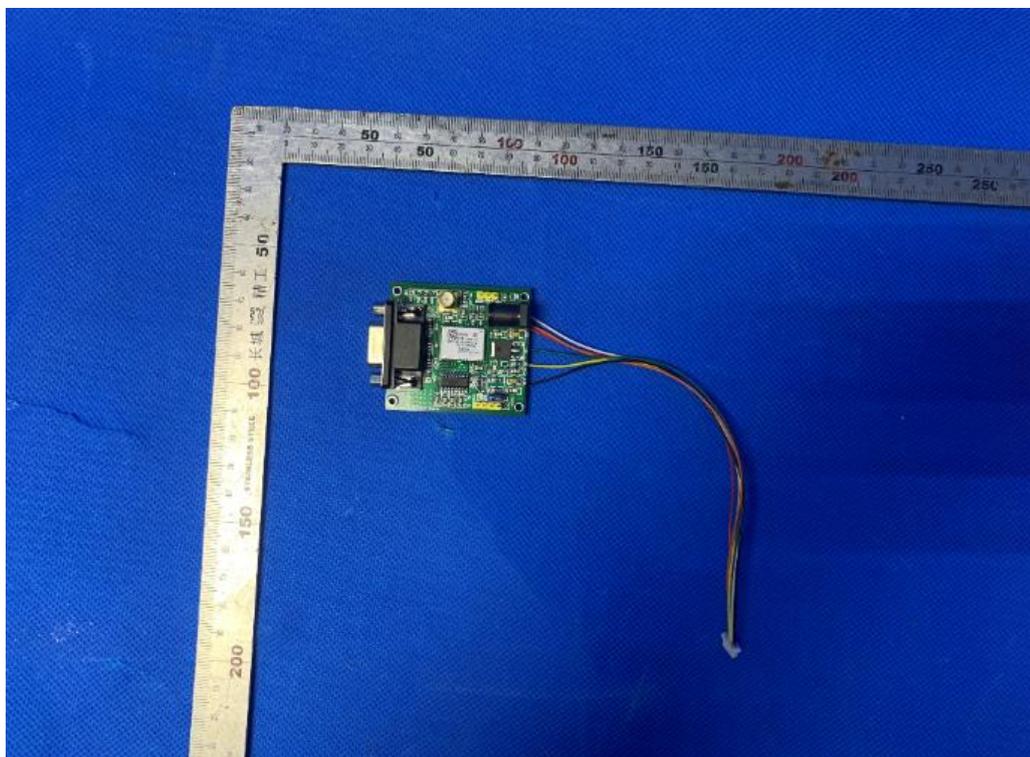
(12) EUT Photo



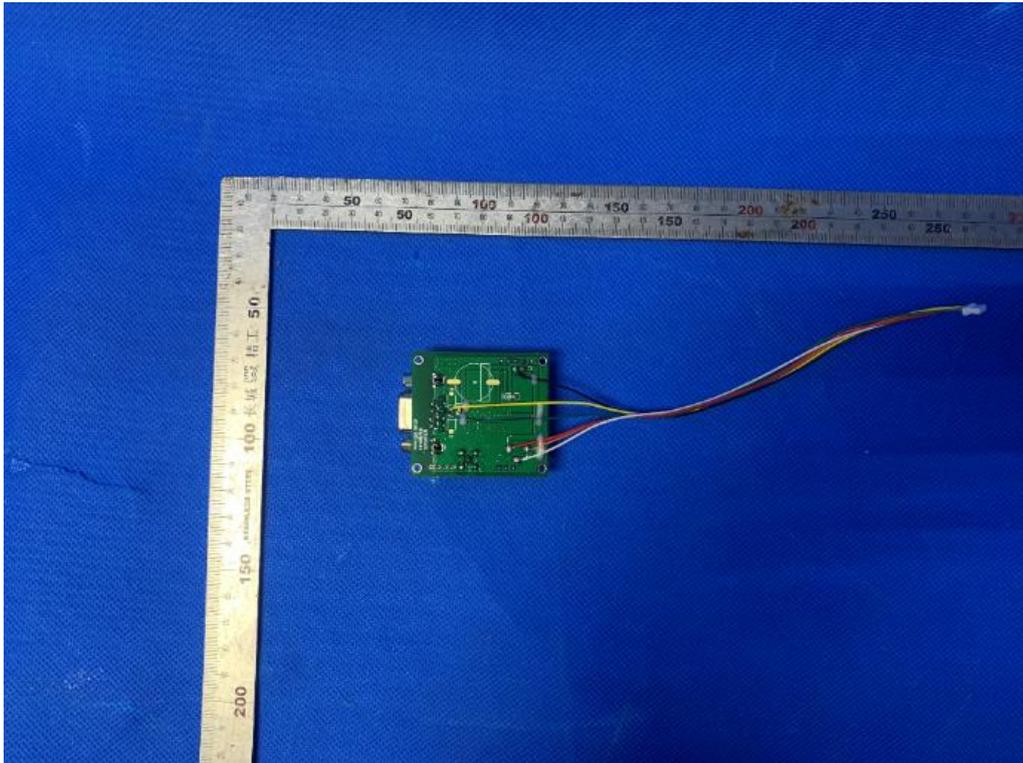
(13) EUT Photo



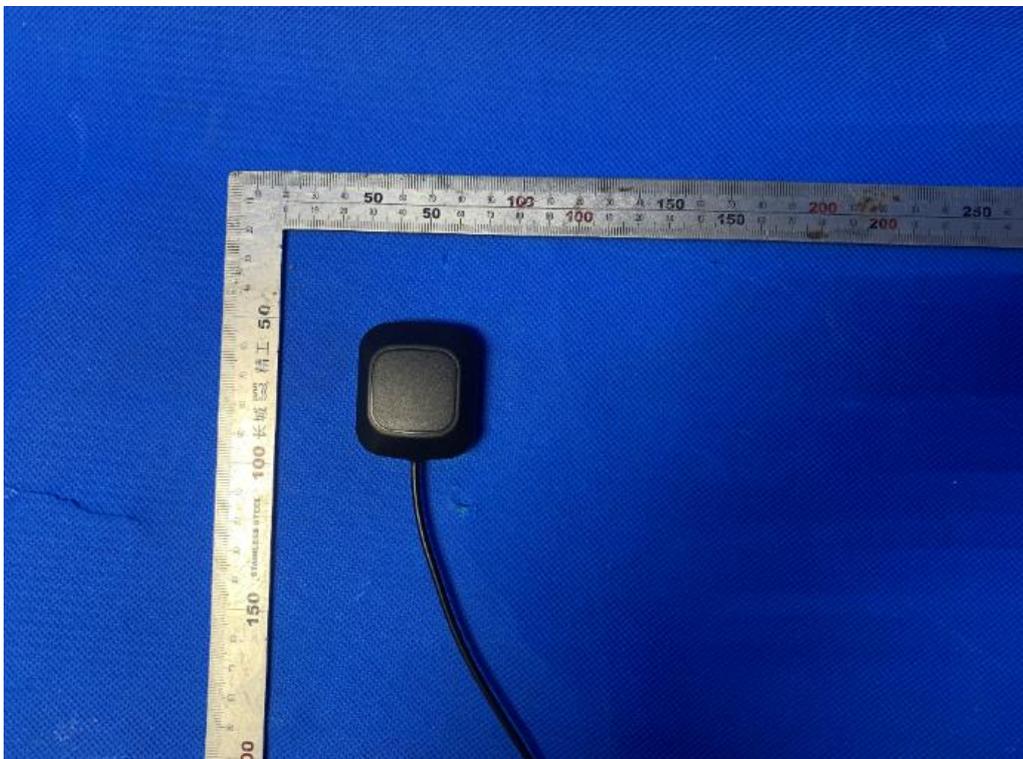
(14) Auxiliary Equipment Photo



(15) Auxiliary Equipment Photo



(16) Auxiliary Equipment Photo



(17) Auxiliary Equipment Photo



The End