



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 : Aug. 26, 2019

Test Date : Aug. 28, 2019

Issued Date : Aug. 30, 2019

Report No. : 1982182E-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.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou) Co., Ltd.

Issued Date : Aug. 30, 2019
Report No. : 1982182E-IT-US-P01V03



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,
Jiangsu, China
TEL: +86-512-62515088 / FAX: +86-512-62515098

Documented By : Beck Gu
(Senior Project Engineer: Beck Gu)

Reviewed By : Black Hao
(Supervisor: Black Hao)

Approved By : Jerry Pan
(Manager: Jerry Pan)

TABLE OF CONTENTS

Description	Page
1. General Information	4
1.1. EUT Description	4
1.2. Mode of Operation.....	4
1.3. Tested System Details	5
1.4. Configuration of Tested System.....	6
1.5. EUT Exercise Software.....	7
2. Technical Test	8
2.1. Summary of Test Result	8
2.2. List of Test Equipment	9
2.3. Test Environment.....	10
2.4. Measurement Uncertainty.....	11
3. Conducted disturbance.....	12
3.1. Test Specification.....	12
3.2. Test Setup	12
3.3. Limit.....	13
3.4. Test Procedure	13
3.5. Deviation from Test Standard.....	13
3.6. Test Result.....	14
3.7. Test Photograph	16
4. Radiated disturbance.....	17
4.1. Test Specification.....	17
4.2. Test Setup	17
4.3. Limit.....	18
4.4. Test Procedure	19
4.5. Deviation from Test Standard.....	21
4.6. Test Result.....	22
4.7. Test Photograph	26
5. Attachment	28
EUT Photograph.....	28

1. General Information

1.1. EUT Description

Product Name	Rangefinder
Model No.	PandarQT
Brand Name	HESAI  The Hesai logo features the Chinese characters '禾赛' in a bold, black font, followed by a red circular icon containing a stylized 'S' shape. Below the icon, the word 'HESAI' is written in a smaller, black, sans-serif font.

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:

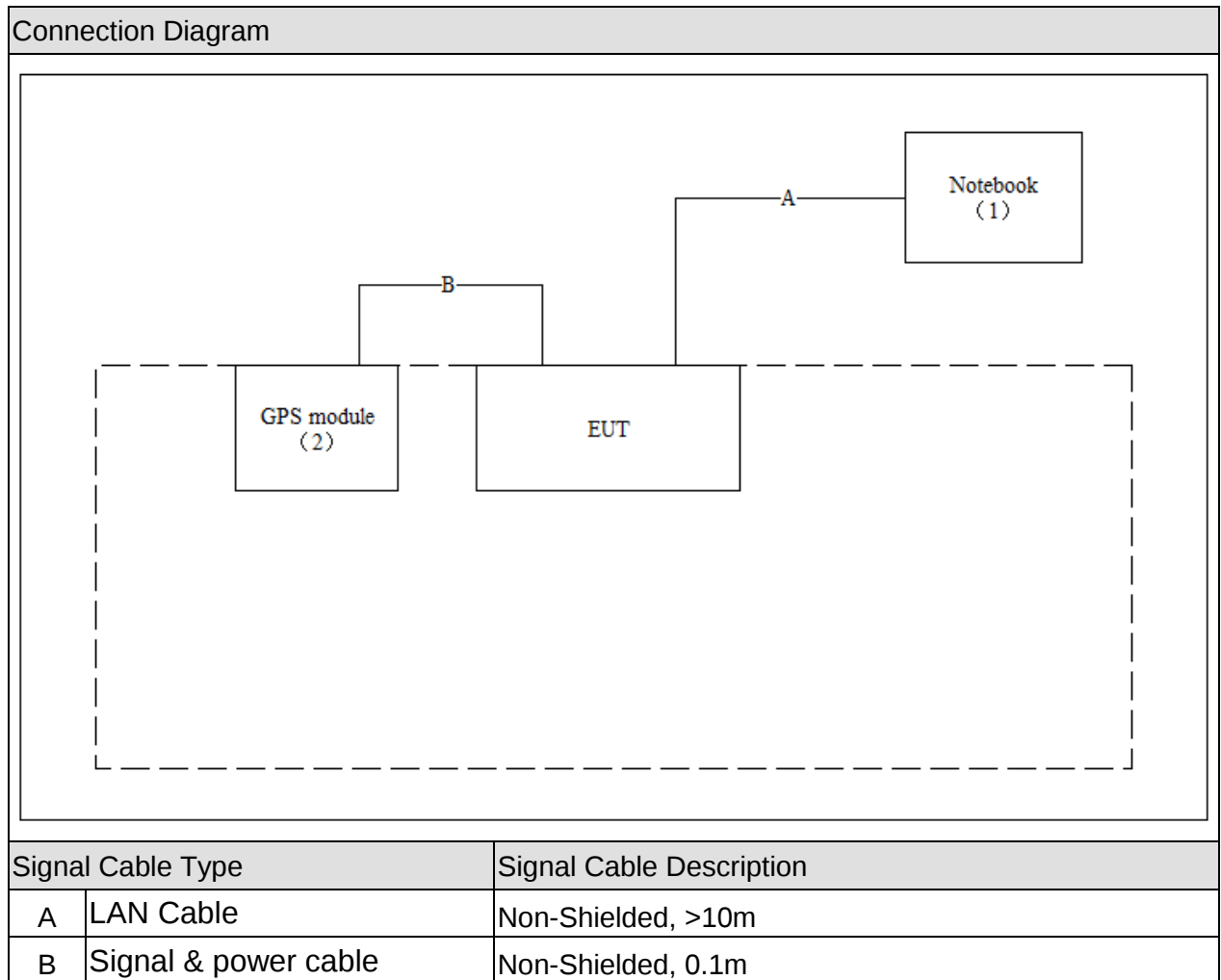
Pre Test Mode
Mode 1: Normal working
Final Test Mode
Mode 1: Normal working

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	Notebook	DELL	Latitude 3450	DTK1042	Power by adapter
2	GPS module	N/A	GPSU7/U28	N/A	Power by EUT

1.4. Configuration of Tested System



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	2019.03.04	2020.03.04
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	2019.03.07	2020.03.07
50ohm Termination	SHX	TF2	07081402	2018.09.08	2019.09.08
50ohm Termination	SHX	TF2	07081403	2018.09.08	2019.09.08
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	2018.10.24	2019.10.24
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	2018.09.08	2019.09.08
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	2018.10.10	2019.10.10
Coaxial Cable	Huber+Suhner	RG 214 U	AC1-R	2018.10.10	2019.10.10
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC1-TH	2018.10.24	2019.10.24
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	2019.03.04	2020.03.04
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2019.02.28	2020.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC2-TH	2018.10.24	2019.10.24
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	2018.09.08	2019.09.08
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC3-C	2019.02.28	2020.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC3-TH	2018.10.24	2019.10.24
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	2019.02.28	2020.02.28
Pre-Amplifier	Chengyi	EMC184045SE	980263	2018.09.08	2019.09.08
Coaxial Cable	ROSENBERG ER	LA1-C011-2000/ 3000	AC5-40G	2019.02.08	2020.02.28
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2019.02.23	2020.02.23
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC5-TH	2018.10.24	2019.10.24
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

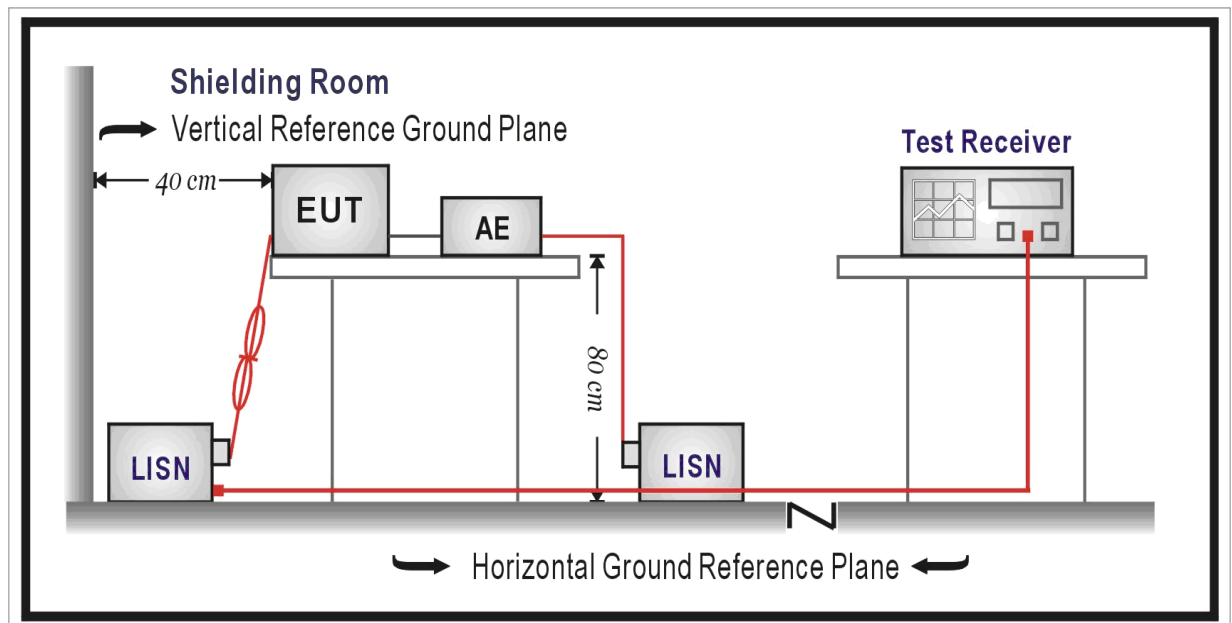
Conducted disturbance / TR1
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Radiated disturbance / AC1
The maximum measurement uncertainty is evaluated as: Horizontal: 30MHz~300MHz: 3.50 dB 300MHz~1GHz: 3.20 dB 1GHz~18GHz: 4.80 dB Vertical: 30MHz~300MHz: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

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(μ V)	
	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(μ V)	
	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 50 Ω / 50 μ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω / 50 μ H coupling impedance with 50 Ω 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.

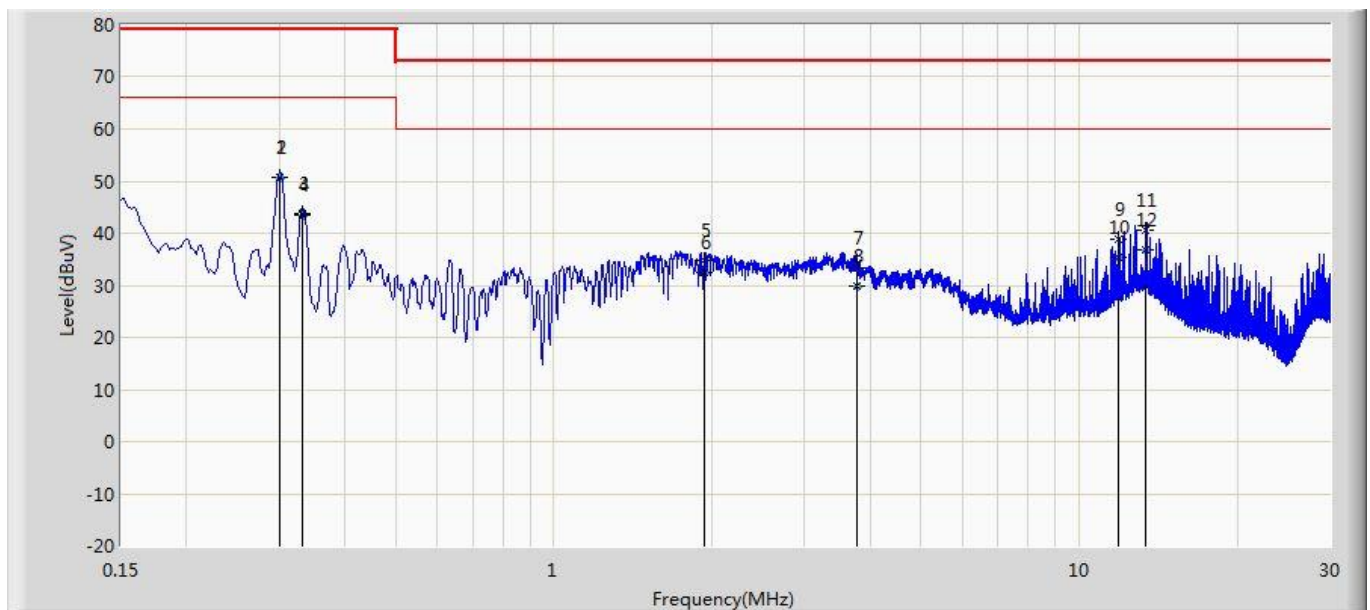
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

3.6. Test Result

Engineer: Shuo	
Site: TR1	Time: 2019/08/28
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	

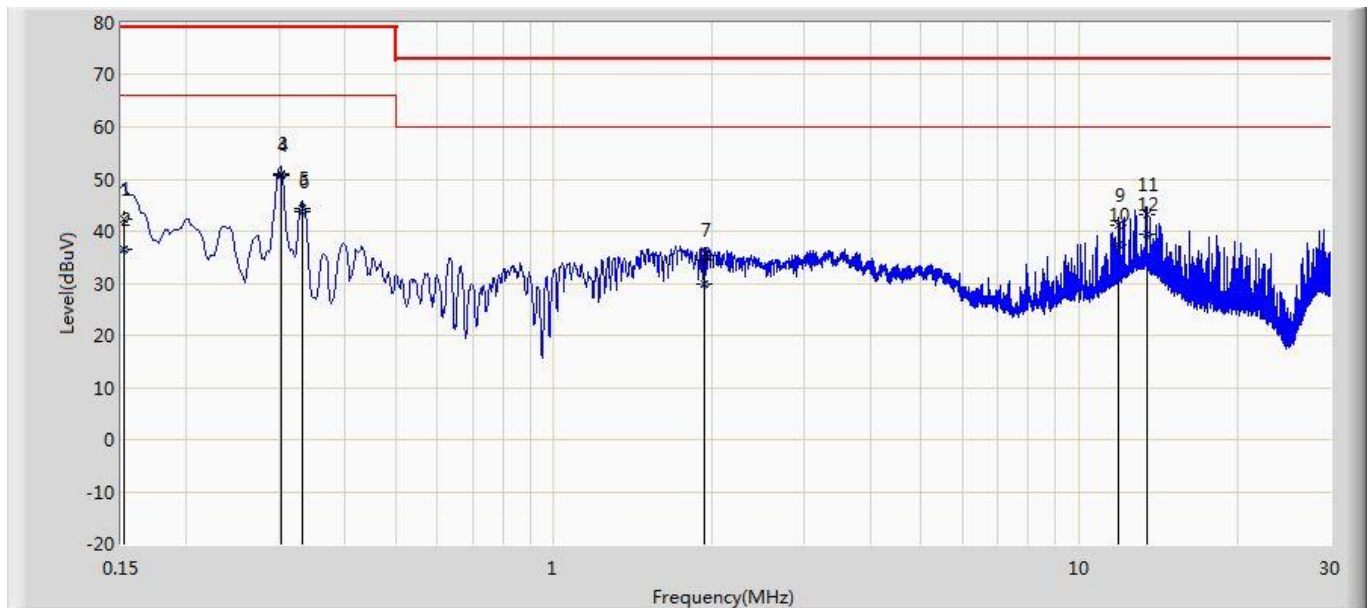


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.301	50.869	41.235	-28.131	79.000	9.600	0.034	0.000	QP
2	*	0.301	50.639	41.005	-15.361	66.000	9.600	0.034	0.000	AV
3		0.332	43.841	34.205	-35.159	79.000	9.600	0.035	0.000	QP
4		0.332	43.361	33.726	-22.639	66.000	9.600	0.035	0.000	AV
5		1.937	34.705	25.009	-38.295	73.000	9.610	0.086	0.000	QP
6		1.937	32.395	22.699	-27.605	60.000	9.610	0.086	0.000	AV
7		3.779	33.451	23.689	-39.549	73.000	9.640	0.123	0.000	QP
8		3.779	29.744	19.981	-30.256	60.000	9.640	0.123	0.000	AV
9		11.893	38.833	28.794	-34.167	73.000	9.819	0.220	0.000	QP
10		11.893	35.418	25.379	-24.582	60.000	9.819	0.220	0.000	AV
11		13.357	40.615	30.523	-32.385	73.000	9.857	0.234	0.000	QP
12		13.357	36.899	26.808	-23.101	60.000	9.857	0.234	0.000	AV

Note:

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

Engineer: Shuo	
Site: TR1	Time: 2019/08/28
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		0.152	42.346	32.723	-36.654	79.000	9.593	0.029	0.000	QP
2		0.152	36.666	27.043	-29.334	66.000	9.593	0.029	0.000	AV
3		0.303	51.135	41.504	-27.865	79.000	9.596	0.034	0.000	QP
4	*	0.303	50.600	40.969	-15.400	66.000	9.596	0.034	0.000	AV
5		0.332	44.319	34.688	-34.681	79.000	9.595	0.035	0.000	QP
6		0.332	43.774	34.143	-22.226	66.000	9.595	0.035	0.000	AV
7		1.939	34.527	24.832	-38.473	73.000	9.609	0.086	0.000	QP
8		1.939	29.875	20.180	-30.125	60.000	9.609	0.086	0.000	AV
9		11.893	41.049	30.975	-31.951	73.000	9.854	0.220	0.000	QP
10		11.893	37.481	27.407	-22.519	60.000	9.854	0.220	0.000	AV
11		13.418	43.169	33.029	-29.831	73.000	9.906	0.234	0.000	QP
12		13.418	39.444	29.304	-20.556	60.000	9.906	0.234	0.000	AV

Note:

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

3.7. 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



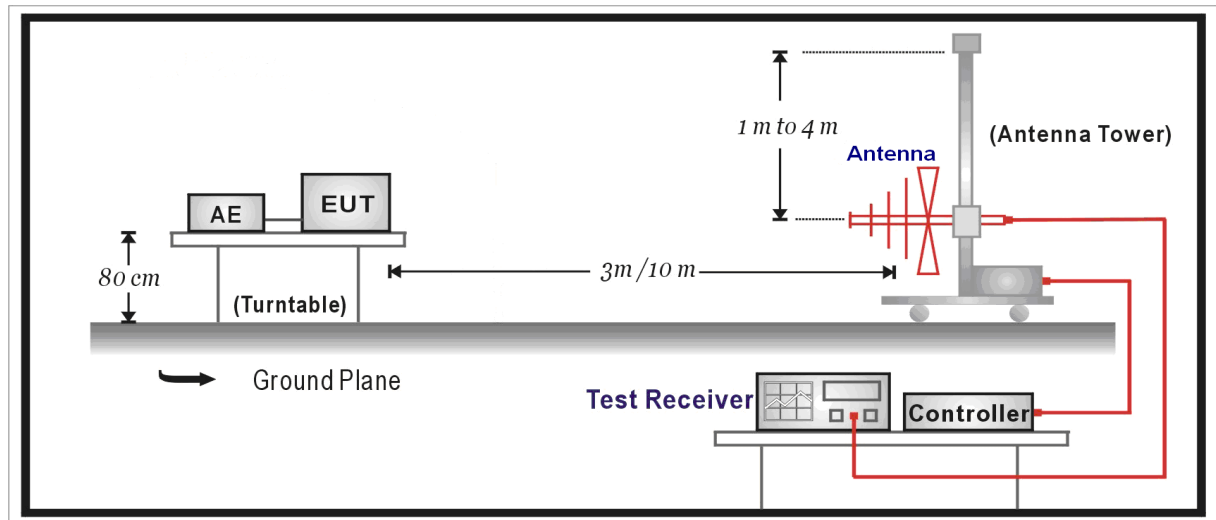
4. Radiated disturbance

4.1. Test Specification

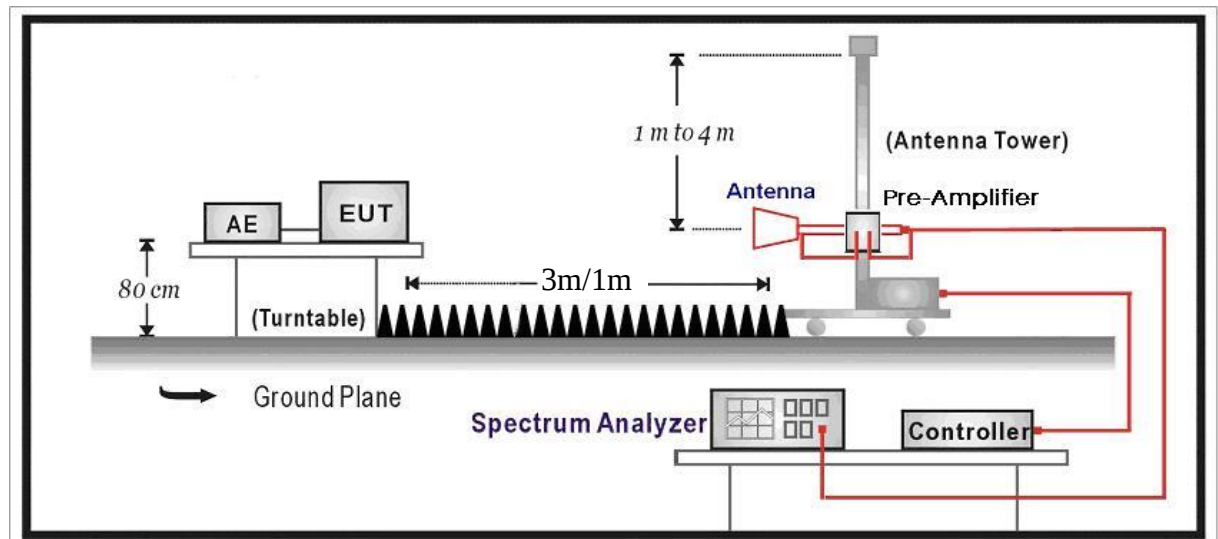
According to Standard: FCC Part 15.109 Class A, ANSI C63.4

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(μV/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(μV/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(μV/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(μV/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(μ V/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.

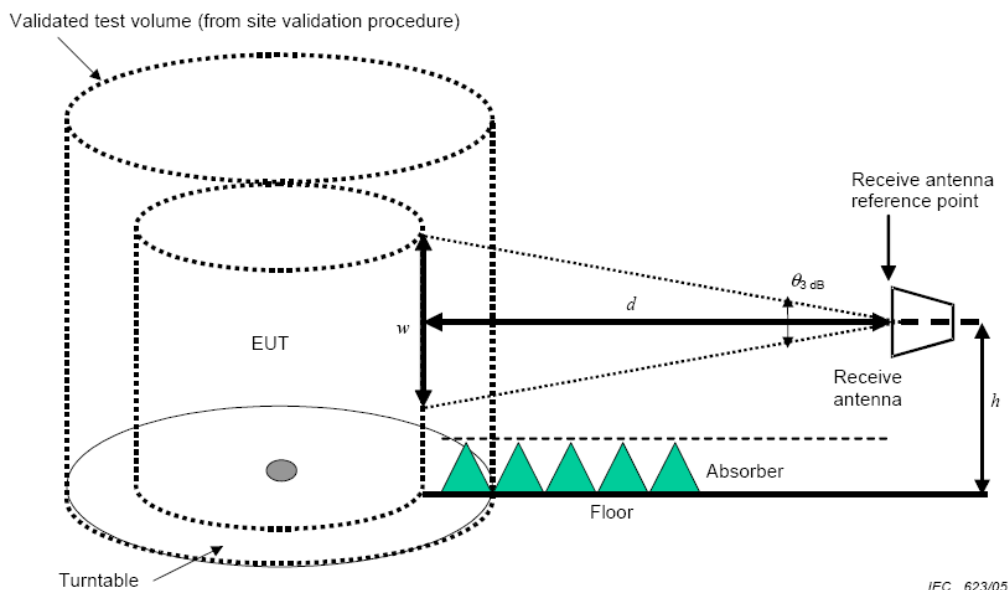
For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

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 8.3.3 of 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 a remotely 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

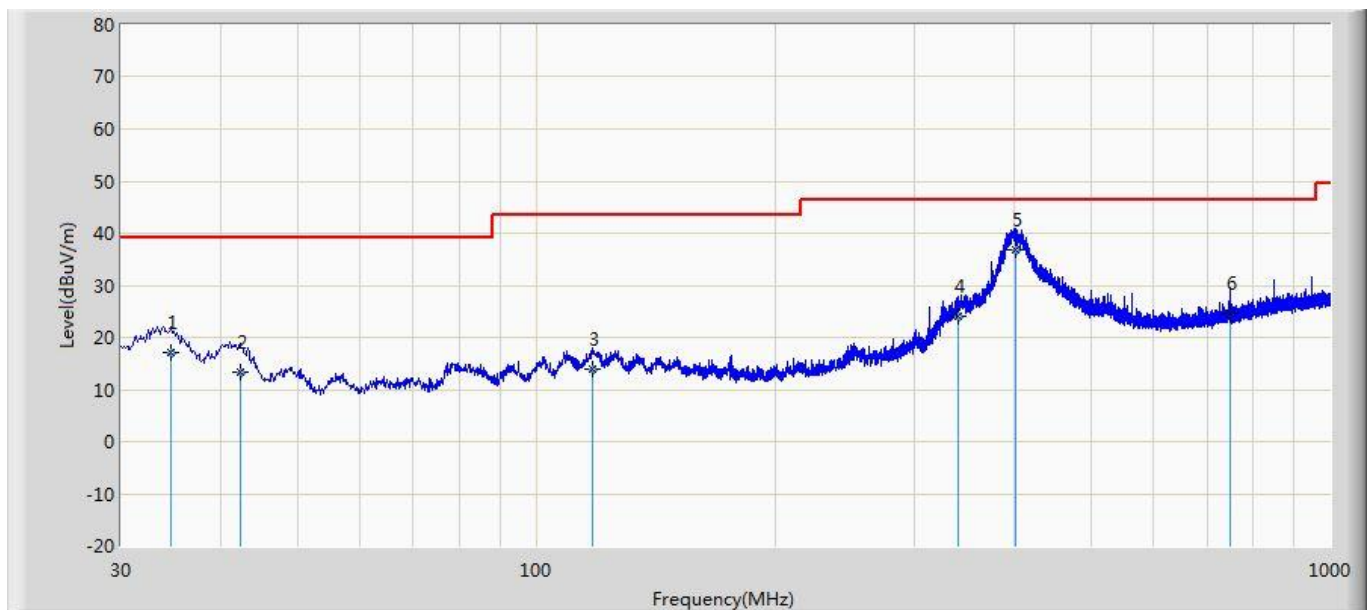
Note: The antenna's moving up and down is determined by ω value for above 1GHz, to ensure that the acceptable range of the testing antenna can cover the whole range of EUT.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Engineer: Mark	
Site: AC1	Time: 2019/08/28
Limit: FCC_Part15.109_RE(10m)_ClassA	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Horizontal
EUT: Rangefinder	Power: AC 120V/60Hz
Note: Mode 1	

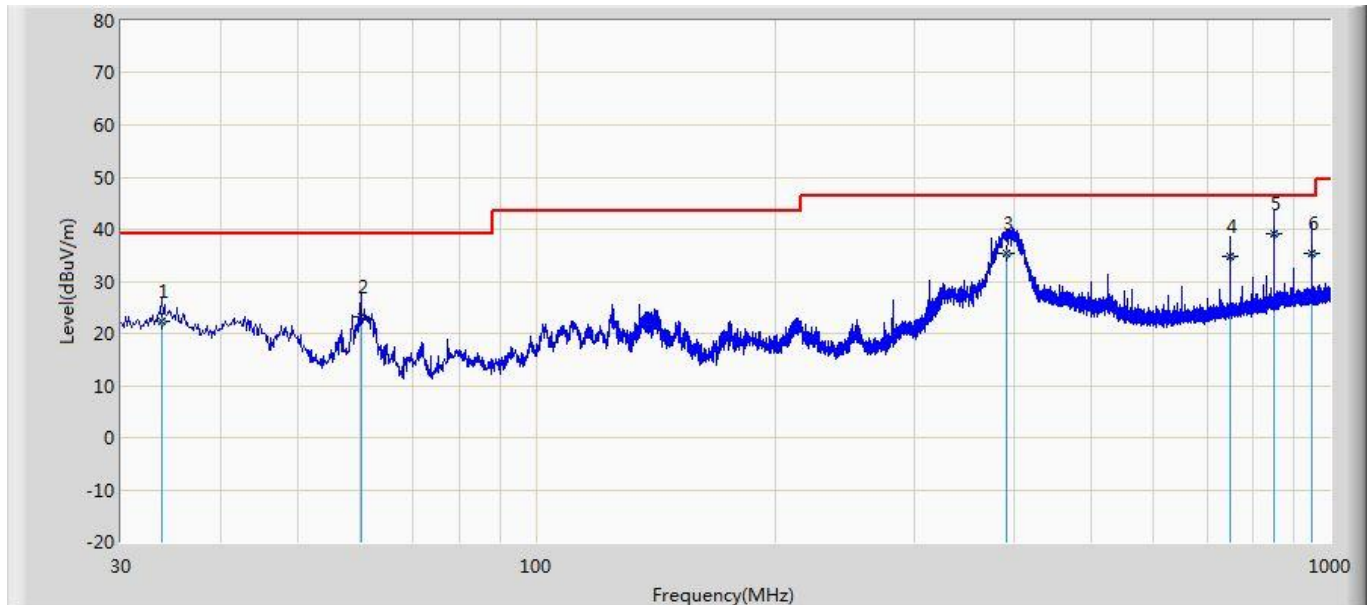


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.729	17.059	24.141	-21.941	39.000	14.570	1.167	22.819	100	168	QP
2		42.368	13.391	23.160	-25.609	39.000	11.779	1.292	22.839	200	129	QP
3		117.785	14.029	22.187	-29.471	43.500	12.434	2.260	22.852	100	94	QP
4		339.915	24.161	28.641	-22.239	46.400	14.037	4.138	22.656	100	126	QP
5	*	401.389	36.778	39.194	-9.622	46.400	15.622	4.562	22.599	100	246	QP
6		750.104	24.737	21.165	-21.663	46.400	19.001	6.663	22.091	300	318	QP

Note:

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

Engineer: Mark	
Site: AC1	Time: 2019/08/28
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	22.291	29.144	-16.709	39.000	14.822	1.147	22.822	100	291	QP
2		60.191	23.291	38.164	-15.709	39.000	6.417	1.566	22.855	200	165	QP
3		392.174	35.452	38.164	-10.948	46.400	15.396	4.499	22.608	200	67	QP
4		749.982	34.735	31.164	-11.665	46.400	18.999	6.663	22.091	100	69	QP
5	*	850.014	39.161	34.161	-7.239	46.400	19.800	7.195	21.995	100	129	QP
6		950.045	35.494	29.144	-10.906	46.400	20.550	7.716	21.917	100	297	QP

Note:

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

Engineer: Mark

Site: AC5

Time: 2019/08/28

Limit: FCC_Part15.109_RE(3m)_ClassA

Margin: 0

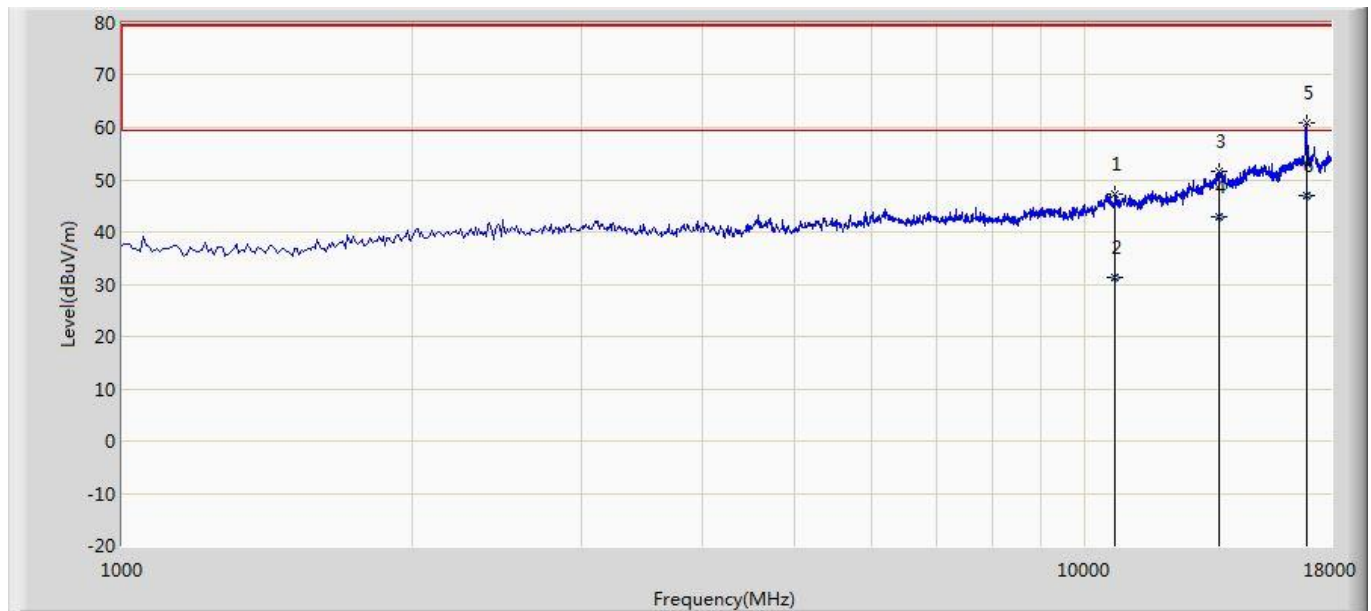
Probe: Horn_3117_00167055(1-18GHz)

Polarity: Horizontal

EUT: Rangefinder

Power: AC 120V/60Hz

Note: Mode 1



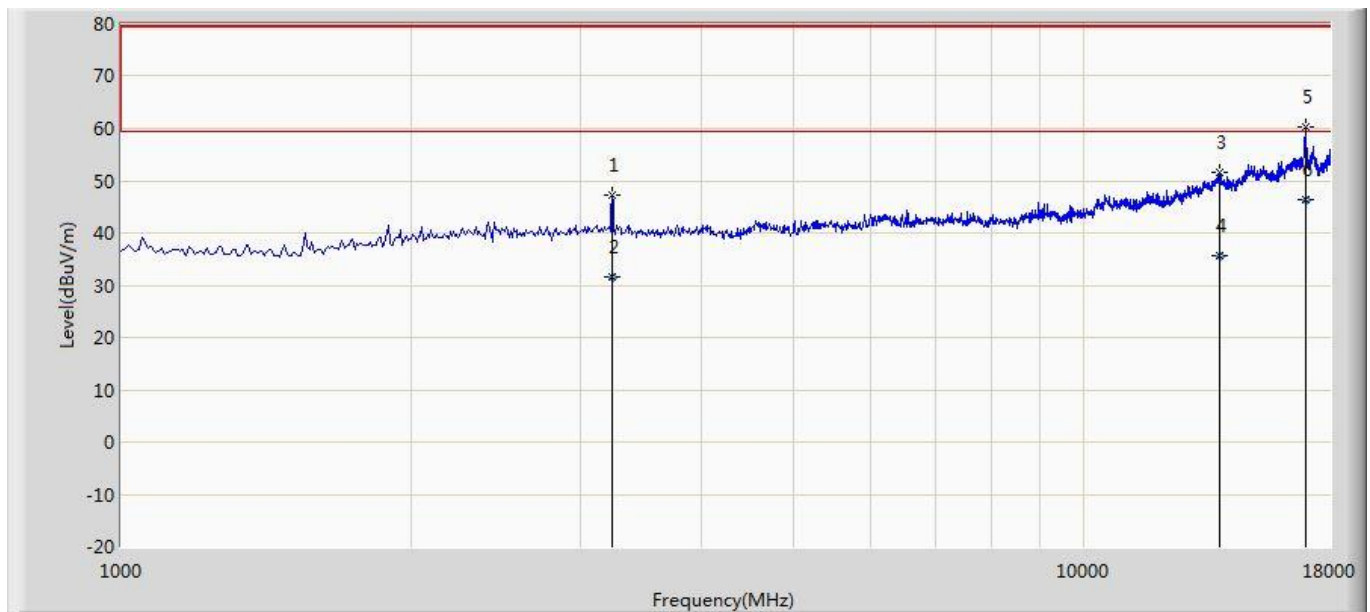
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10749.500	47.136	34.342	-32.364	79.500	37.850	9.260	34.316	100	210	PK
2		10749.880	31.273	18.491	-28.227	59.500	37.850	9.261	34.330	100	210	AV
3		13758.500	51.459	32.235	-28.041	79.500	39.051	12.475	32.303	100	188	PK
4		13758.660	42.916	23.696	-16.584	59.500	39.052	12.476	32.307	100	188	AV
5		16980.000	60.788	34.084	-18.712	79.500	41.396	18.210	32.902	100	160	PK
6	*	16980.310	47.030	20.364	-12.470	59.500	41.396	18.185	32.915	100	160	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Mark	
Site: AC5	Time: 2019/08/28
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		3235.500	47.152	44.109	-32.348	79.500	32.895	4.477	34.328	100	210	PK
2		3235.810	31.504	28.461	-27.996	59.500	32.895	4.477	34.328	100	210	AV
3		13818.000	51.605	32.149	-27.895	79.500	39.064	12.790	32.398	100	160	PK
4		13818.620	35.747	16.292	-23.753	59.500	39.064	12.793	32.402	100	160	AV
5		16971.500	60.411	34.626	-19.089	79.500	41.395	17.531	33.141	100	188	PK
6	*	16971.810	46.279	20.461	-13.221	59.500	41.395	17.556	33.132	100	188	AV

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)



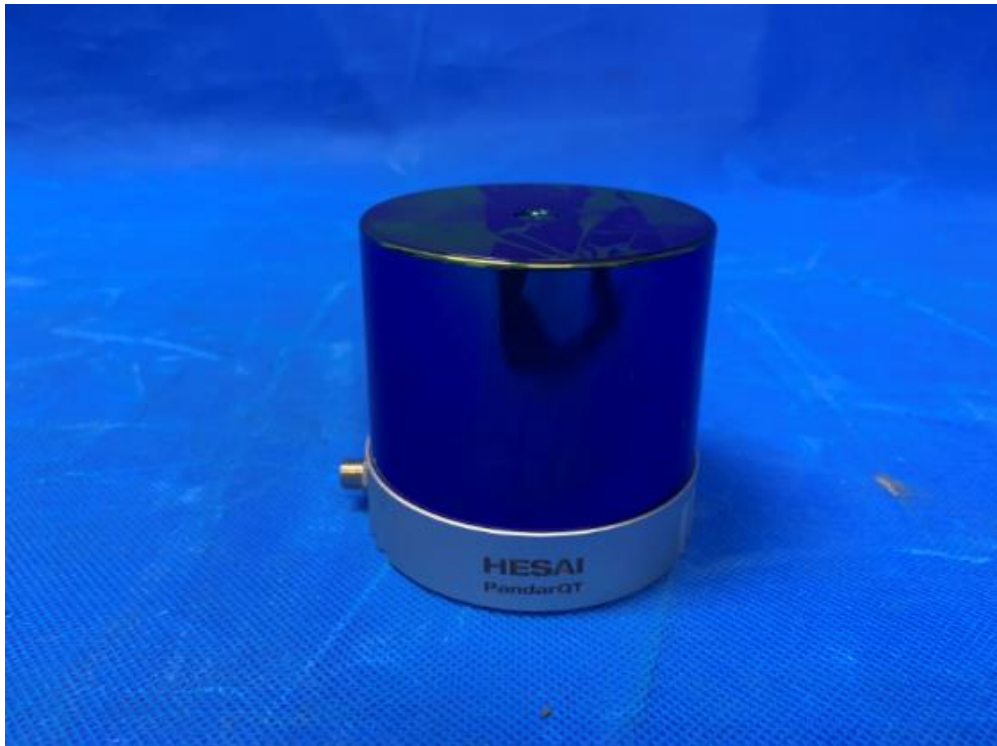
5. Attachment

EUT Photograph

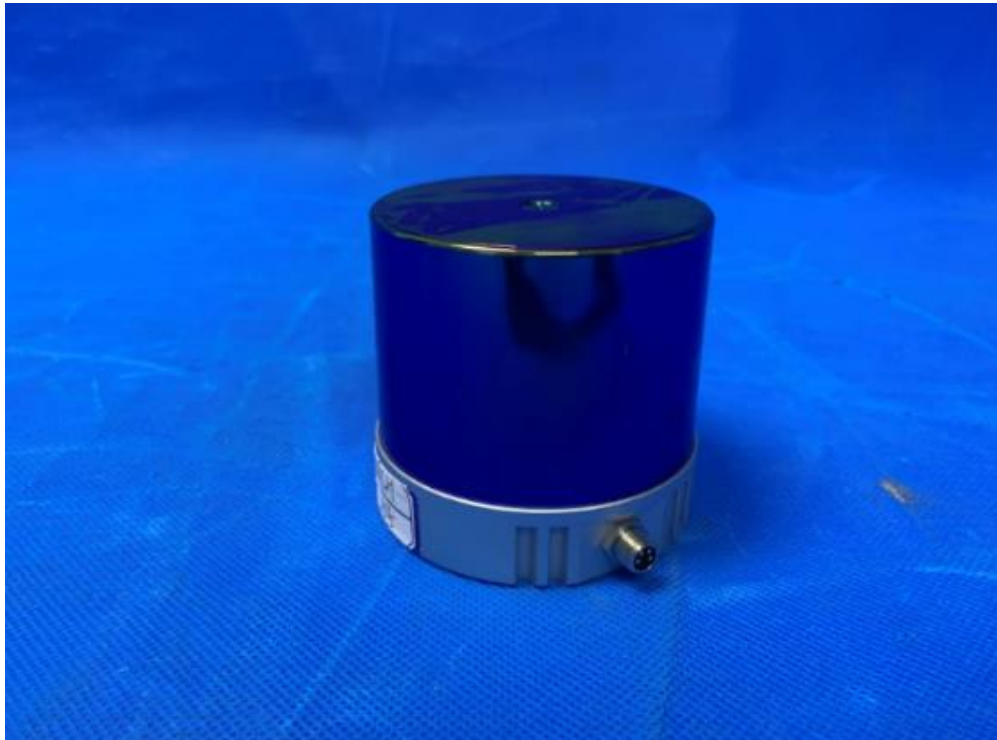
(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



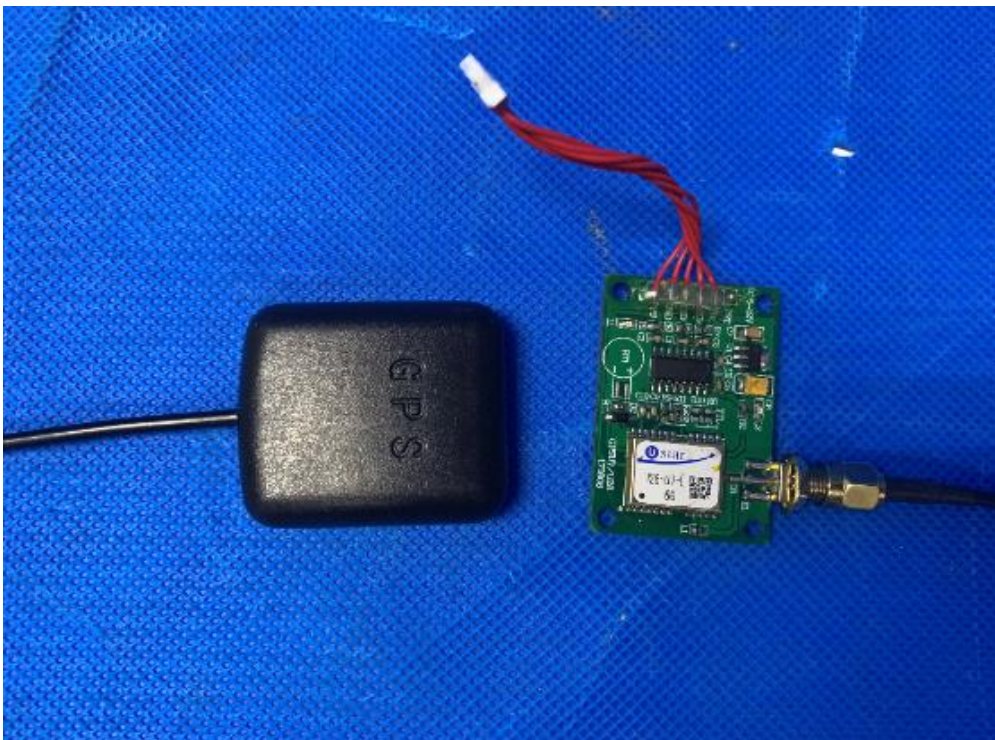
(4) EUT Photo



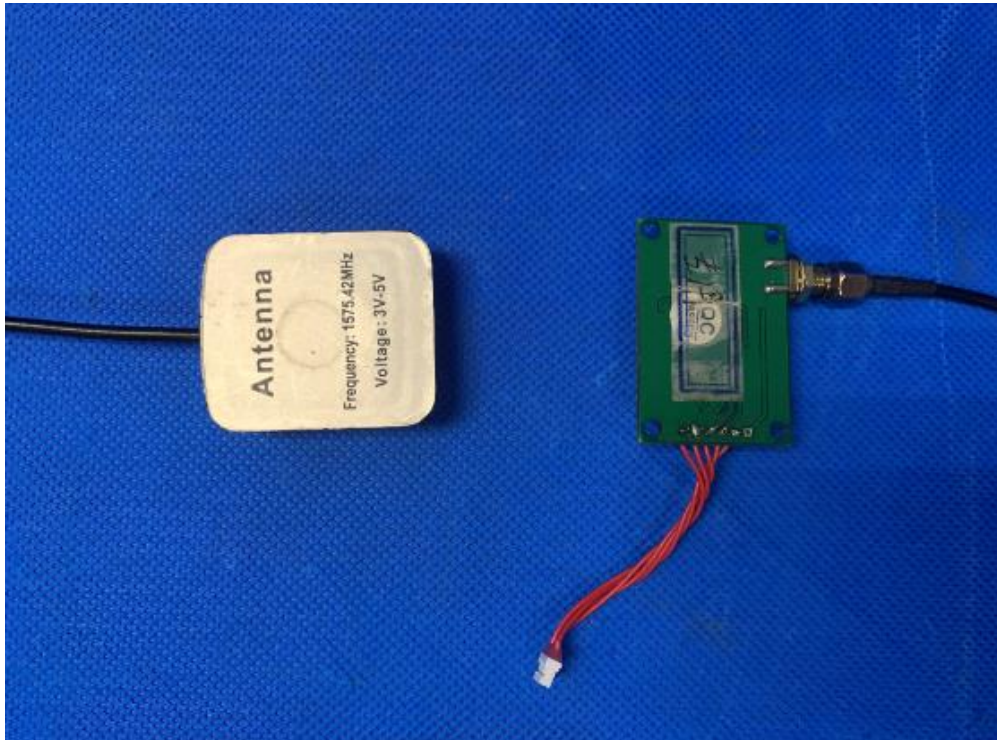
(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo



(9) EUT Photo



(10) EUT Photo



(11) EUT Photo



(12) EUT Photo



————— The End —————