

TEST REPORT

Reference No. : WTD18S07119031W
FCC ID..... : DC9-IVPCDS
Applicant : OPTEX CO., LTD.
Address : 5-8-12, Ogoto Otsu-Shi, Shifa-Ken Japan 520-0101
Manufacturer : OPTEX CO., LTD.
Address : 5-8-12, Ogoto Otsu-Shi, Shifa-Ken Japan 520-0101
Product Name : Door Station
Model No. : IVPC-DS
Standards : FCC CFR47 Part 15 Section 15.249:2018
Date of Receipt sample : 2018-07-24
Date of Test..... : 2018-07-25 to 2018-08-07
Date of Issue : 2018-08-08
Test Result : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation) of USA, Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CEC(California energy efficiency), IC(Industry Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek(ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

2.1 Test Facility

A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA	International Services	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand		NTC	-
Singapore		IDA	-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. IC Canada Registration No.: 7760A			

B.TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD18S07119031W	2018-07-24	2018-07-25 to 2018-08-07	2018-08-08	original	-	Valid

5 General Information

5.1 General Description of E.U.T

Product Name:	Door Station
Model No.:	IVPC-DS
Model Difference:	N/A
Frequency range:	916.80MHz
Type of modulation:	FSK
Antenna Gain:	1dBi
Antenna installation:	Integrated Antenna

5.2 Details of E.U.T

Ratings:	Input: 10 to 24V 0.6A
	Battery: DC 3.7V 5000mAh 18.5Wh

5.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC CFR47 Part 15 Section 15.249:2017 Telecommunication-RADIO FREQUENCY DEVICES-Intentional Radiators-Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

5.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests.

And according to FCC 47 CFR Section 15.203(m):

Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle.
1 to 10 MHz	2	1 near top and 1 near bottom.
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

So frequency range over 908.40MHz to 908.42MHz is 1MHz or less, only the Middle channel were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	/	916.80MHz	/

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101155	2017.09.11	2018.09.10
2	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017.09.11	2018.09.10
3	Limiter	York	MTS-IMP-136	261115-001-0024	2017.09.11	2018.09.10
4	Cable	LARGE	RF300	-	2018.07.18	2019.07.17
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	2017.09.11	2018.09.10
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2018.07.18	2019.07.17
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2018.05.18	2019.05.17
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2017.10.14	2018.10.15
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2018.05.18	2019.05.17
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2018.05.18	2019.05.17
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2018.04.07	2019.04.06
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	2018.04.07	2019.04.06
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2018.04.20	2019.04.19
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018.04.19	2019.04.18
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	2018.04.20	2019.04.19
4	Cable	HUBER+SUHNER	CBL2	525178	2018.04.20	2019.04.19
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date

1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2017-09-14	2018-09-13
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-14	2018-09-13
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-14	2018-09-13

6.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)

6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guangdong, China.

7 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	C
Radiated Emission	15.249(a) 15.209 15.205(a)	C
Periodic Operation	15.35(c)	C
Band Edge	15.249 15.205 15.209	C
20dB Bandwidth	15:215(c)	C
Antenna Requirement	15.203	C
Note: C=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable.		

8 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.10:2013;ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)
Test Result:	☒ Pass ☐ not applicable (Remark)

8.1 E.U.T. Operation

Operating Environment :

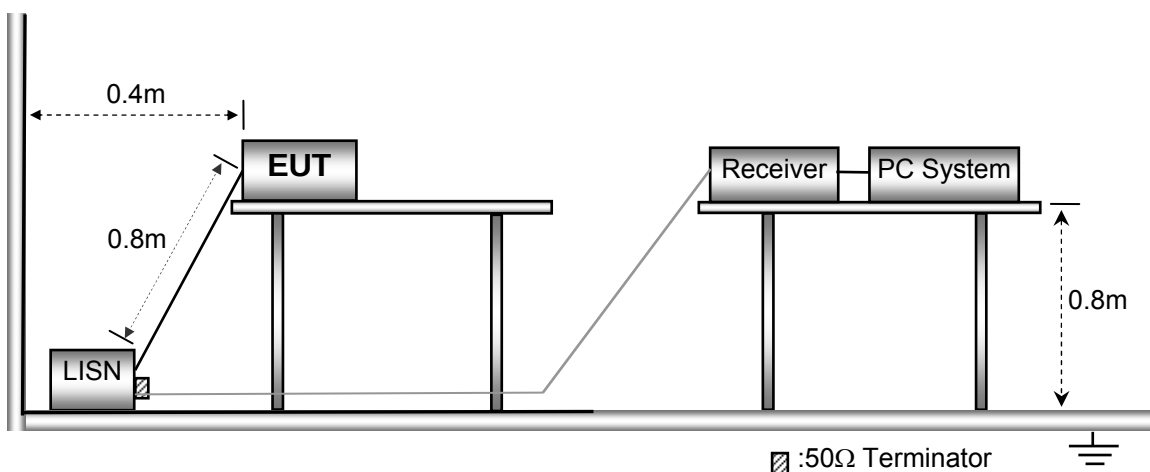
Temperature:	25.5 °C
Humidity:	51 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.

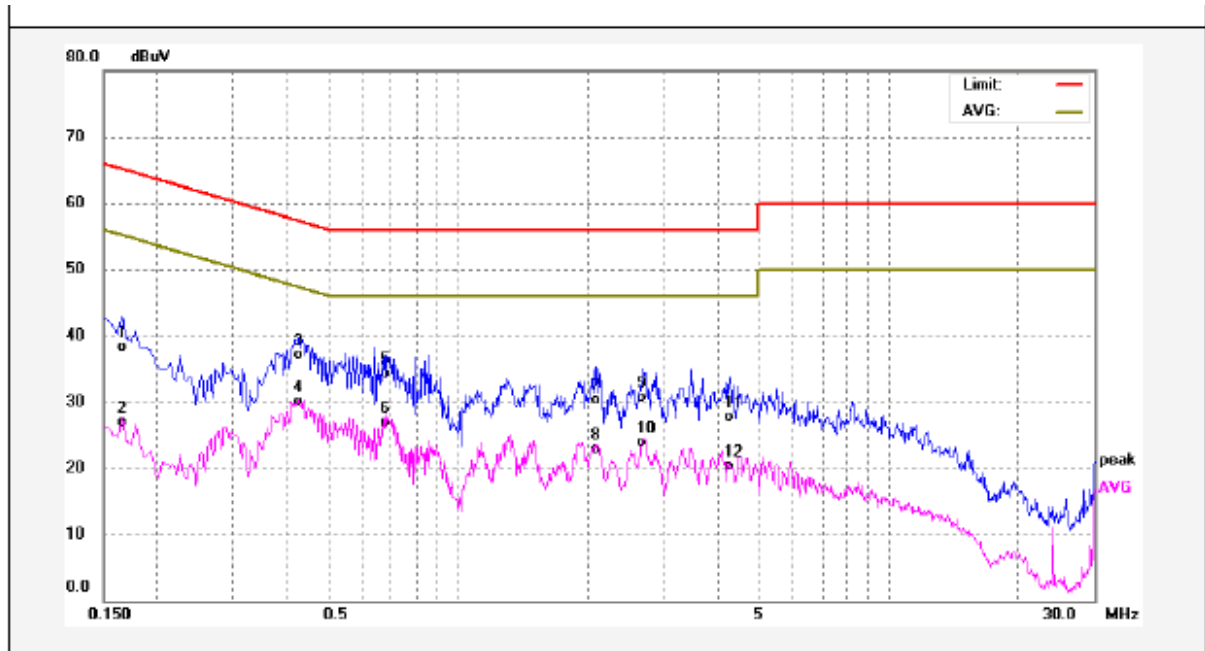


8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

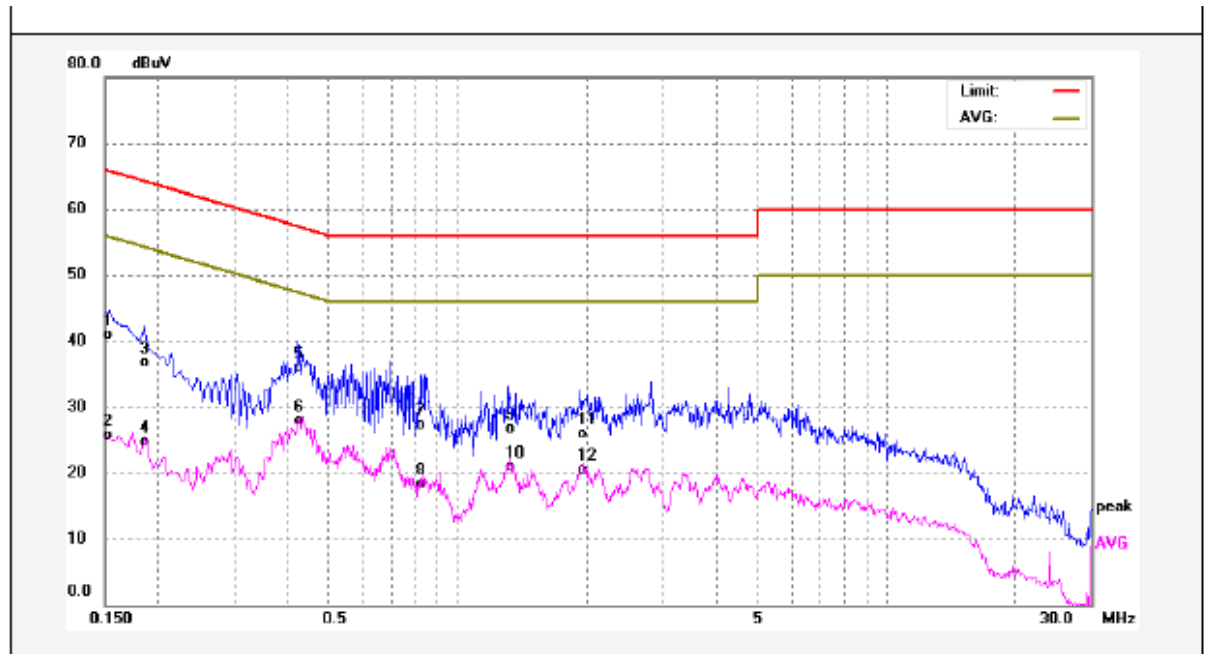
8.4 Test Result

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	28.06	10.28	38.34	65.15	-26.81	QP	
2	0.1660	16.72	10.28	27.00	55.15	-28.15	AVG	
3	0.4260	26.75	10.42	37.17	57.33	-20.16	QP	
4	0.4260	19.77	10.42	30.19	47.33	-17.14	AVG	
5	0.6780	23.81	10.45	34.26	56.00	-21.74	QP	
6	0.6780	16.39	10.45	26.84	46.00	-19.16	AVG	
7	2.0980	19.70	10.58	30.28	56.00	-25.72	QP	
8	2.0980	12.29	10.58	22.87	46.00	-23.13	AVG	
9	2.7020	19.97	10.67	30.64	56.00	-25.36	QP	
10	2.7020	13.29	10.67	23.96	46.00	-22.04	AVG	
11	4.2540	16.83	10.79	27.62	56.00	-28.38	QP	
12	4.2540	9.45	10.79	20.24	46.00	-25.76	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1539	30.66	10.27	40.93	65.78	-24.85	QP	
2	0.1539	15.49	10.27	25.76	55.78	-30.02	AVG	
3	0.1860	26.42	10.31	36.73	64.21	-27.48	QP	
4	0.1860	14.47	10.31	24.78	54.21	-29.43	AVG	
5	0.4220	25.40	10.42	35.82	57.41	-21.59	QP	
6	0.4220	17.42	10.42	27.84	47.41	-19.57	AVG	
7	0.8220	16.83	10.44	27.27	56.00	-28.73	QP	
8	0.8220	7.94	10.44	18.38	46.00	-27.62	AVG	
9	1.3140	16.29	10.46	26.75	56.00	-29.25	QP	
10	1.3140	10.41	10.46	20.87	46.00	-25.13	AVG	
11	1.9380	15.42	10.55	25.97	56.00	-30.03	QP	
12	1.9380	10.05	10.55	20.60	46.00	-25.40	AVG	

9 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249&15.209&15.205

Test Method: ANSI 63.10: 2013;ANSI C63.4:2014

Measurement Distance: 3m

Test Result:  Pass  Fail

15.249(a)Limit:

Fundamental frequency	Field strength of fundamental		Field strength of harmonics	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928 MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25 GHz	250	108	2500	68

15.209 Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40(29.54+40)$
30 ~ 88	100	3	100	$20\log^{(100)} = (40)$
88 ~ 216	150	3	150	$20\log^{(150)} = (43.5)$
216 ~ 960	200	3	200	$20\log^{(200)} = (46)$
Above 960	500	3	500	$20\log^{(500)} = (54)$

Note: RF Voltage(dBuV)= $20 \log_{10}$ RF Voltage(uV)

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

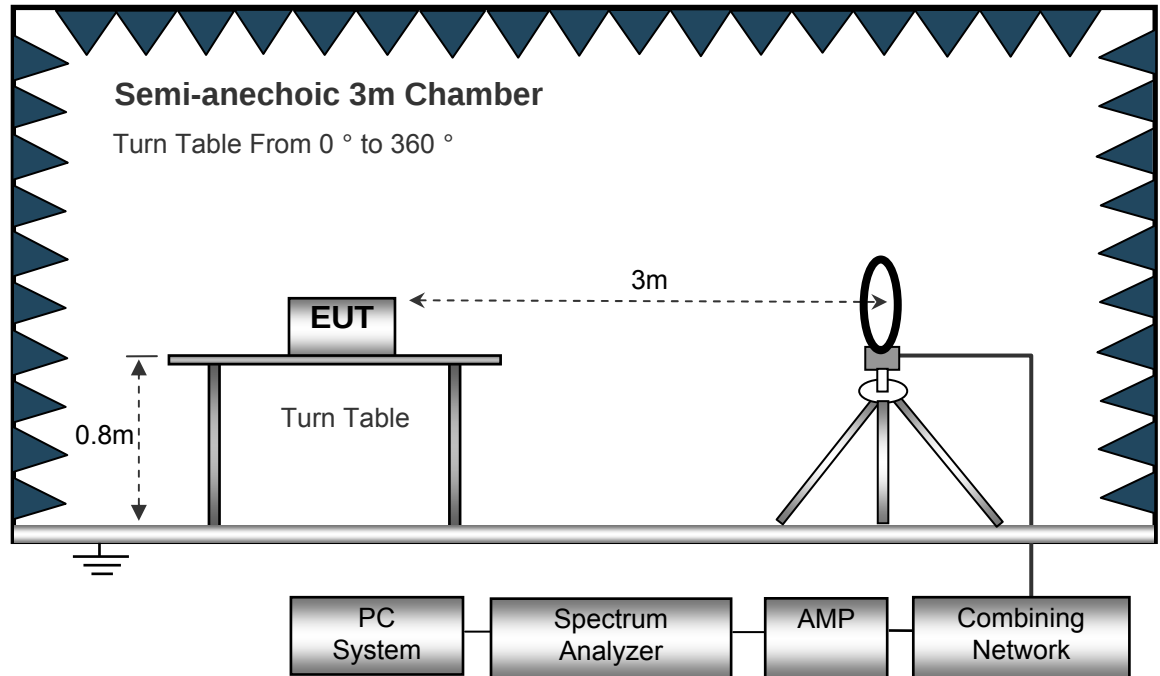
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

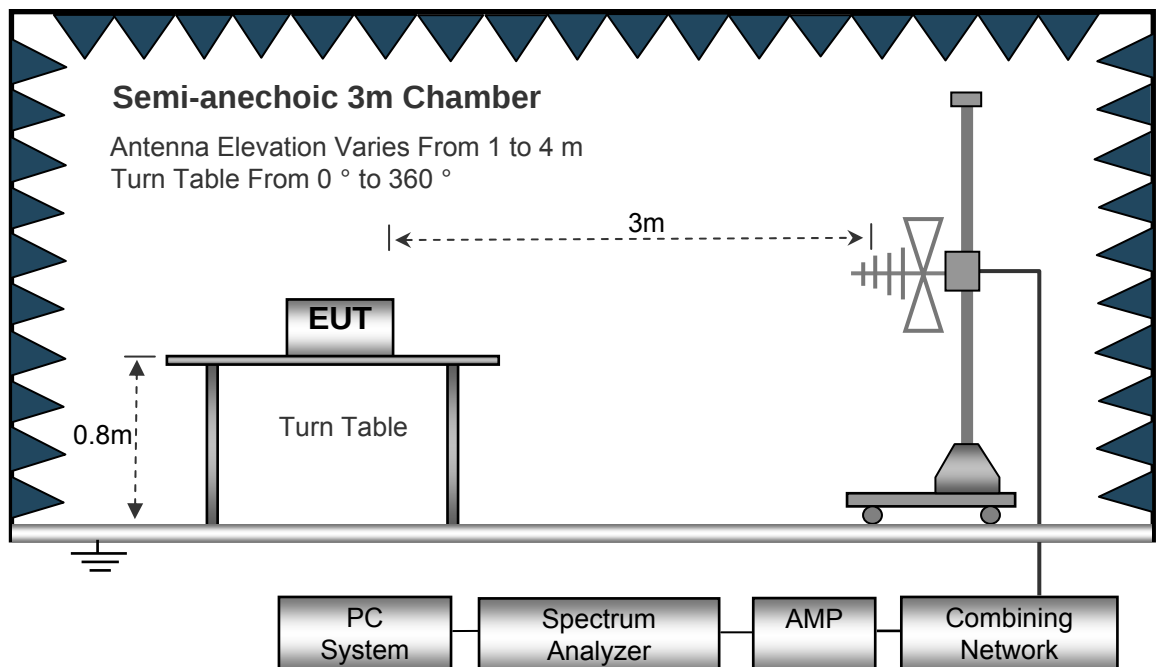
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

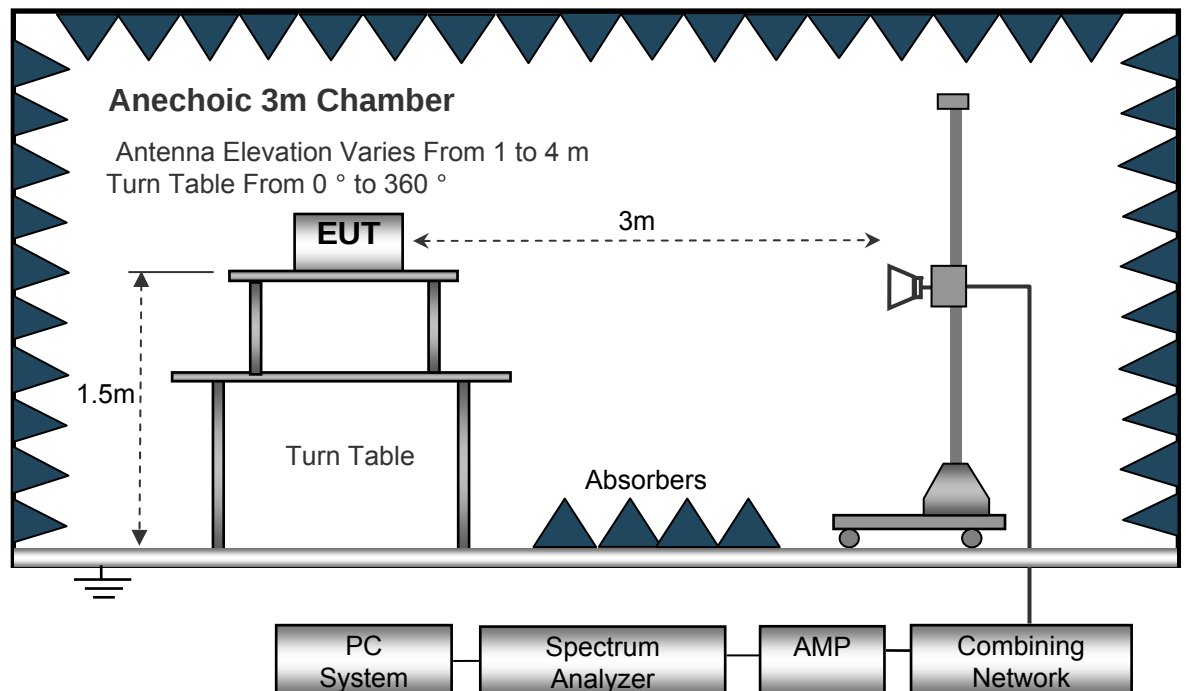
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

Sweep SpeedAuto
 IF Bandwidth.....10kHz
 Video Bandwidth10kHz
 Resolution Bandwidth10kHz

30MHz ~ 1GHz

Sweep SpeedAuto
 Detector.....PK
 Resolution Bandwidth.....100kHz
 Video Bandwidth300kHz

Above 1GHz

Sweep SpeedAuto
 DetectorPK
 Resolution Bandwidth.....1MHz
 Video Bandwidth3MHz
 DetectorAve.
 Resolution Bandwidth.....1MHz
 Video Bandwidth10Hz

Video Bandwidth10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane; For above 1GHz, the EUT is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

9.5 Frequency range of radiated measurements.

According to FCC 47 CFR Section 15.33:

(a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1) through (a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

Result: So the Frequency range of radiated form: 16MHz to 10GHz.

9.6 Test Result

Test Frequency: 12.8MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 10GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.249/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP)	Degree	(m)	(H/V)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)
35.37	40.45	QP	122	1.3	V	-14.17	26.28	40.00	-13.72
916.8	88.36	QP	335	1.8	H	2.07	90.43	114.00	-23.57
916.8	82.62	QP	317	1.4	V	2.07	84.69	114.00	-29.31
1833.6	53.24	QP	122	1.6	H	-14.22	39.02	74.00	-34.98
1833.6	54.82	QP	190	1.1	V	-14.22	40.60	74.00	-33.40
2750.4	49.21	QP	67	1.2	H	-12.56	36.65	74.00	-37.35
2750.4	51.68	QP	228	1.5	V	-12.56	39.12	74.00	-34.88
3667.2	45.51	QP	345	1.6	H	-7.97	37.54	74.00	-36.46
3667.2	46.70	QP	130	1.7	V	-7.97	38.73	74.00	-35.27

AV = Peak +20Log10(duty cycle) =PK+(-0.43) [refer to section 9 for more detail]

Frequency	PK	RX Antenna Polar	Duty cycle Factor	AV	FCC Part 15.249/209/205	
					Limit	Margin
(MHz)	(dBμV/m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
916.80	90.43	H	-0.43	90.00	94.00	-4.00
916.80	84.69	V	-0.43	84.26	94.00	-9.74
1833.60	39.02	H	-0.43	38.59	54.00	-15.41
1833.60	40.60	V	-0.43	40.17	54.00	-13.83
2750.40	36.65	H	-0.43	36.22	54.00	-17.78
2750.40	39.12	V	-0.43	38.69	54.00	-15.31
3667.20	37.54	H	-0.43	37.11	54.00	-16.89
3667.20	38.73	V	-0.43	38.30	54.00	-15.70

10 Periodic Operation

The duty cycle was determined by the following equation:

To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

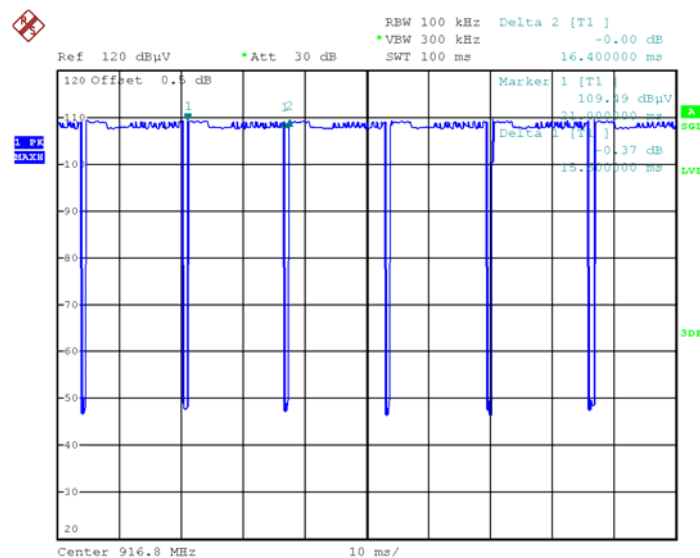
Duty Cycle(%)=Total On interval in a complete pulse train/ Length of a complete pulse train * %

Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle)

Total transmission time(ms)	15.60
Length of a complete transmission period(ms)	16.40
Duty Cycle(%)	95.12
Duty Cycle Correction Factor(dB)	-0.43

Refer to the duty cycle plot (as below)

Test plots



Date: 6.AUG.2018 23:02:22

12 20 dB Bandwidth Measurement

Test Requirement:

FCC CFR47 Part 15 Section 15.215(c)

Test Method:

ANSI C63.10:2013

Test Mode:

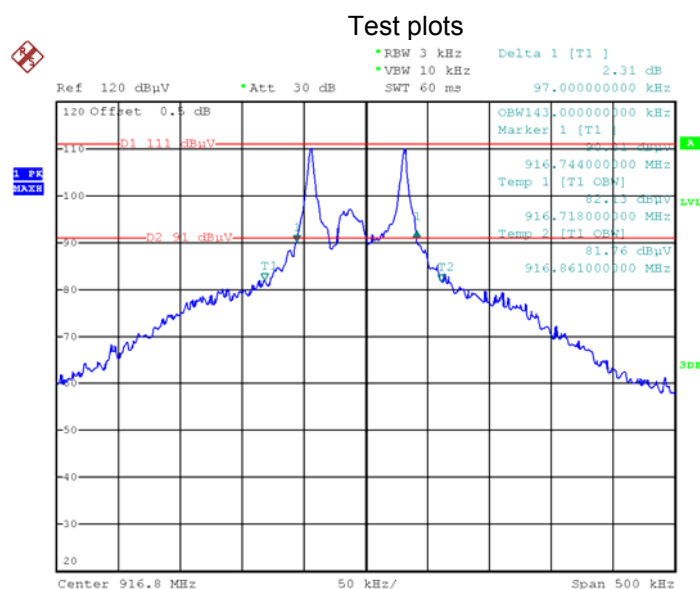
Transmitting

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 3kHz, VBW = 10kHz

12.2 Test Result

Frequency (MHz)	Bandwidth Emission (kHz)
916.80	97.00



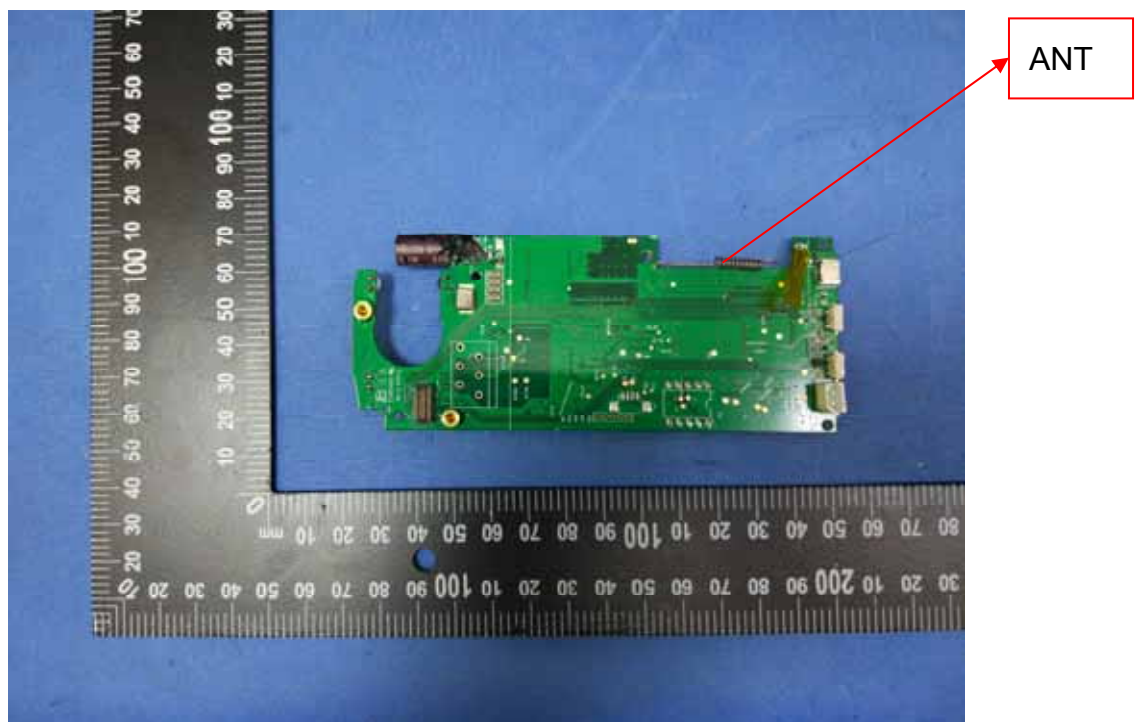
13 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Result:

The EUT has one Integrated Antenna. meets the requirements of FCC 15.203.



14 Photographs- Test Setup Photos

14.1 Photograph – Radiation Emission

Test frequency below 30MHz

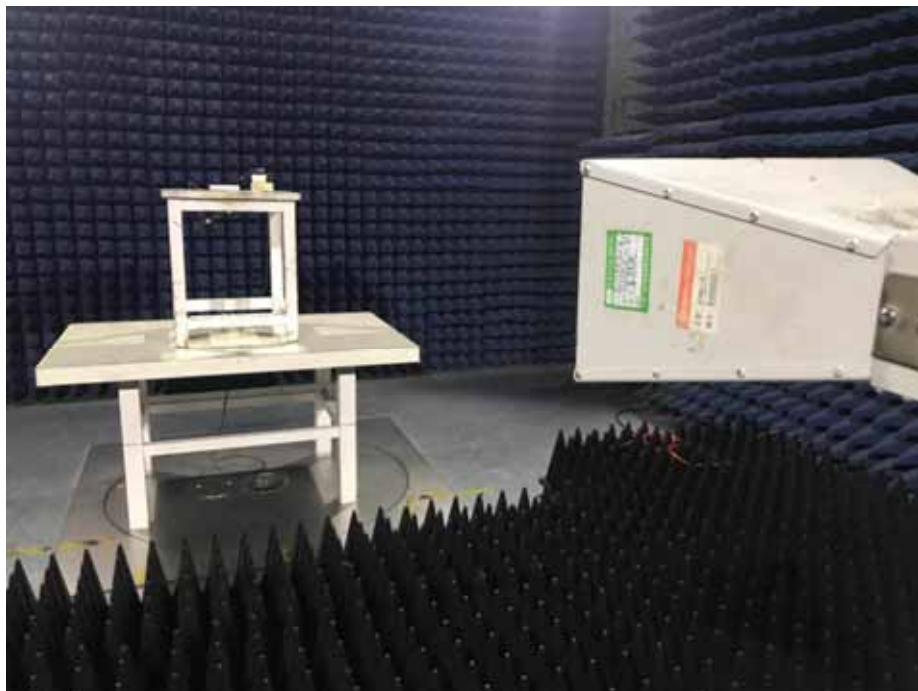


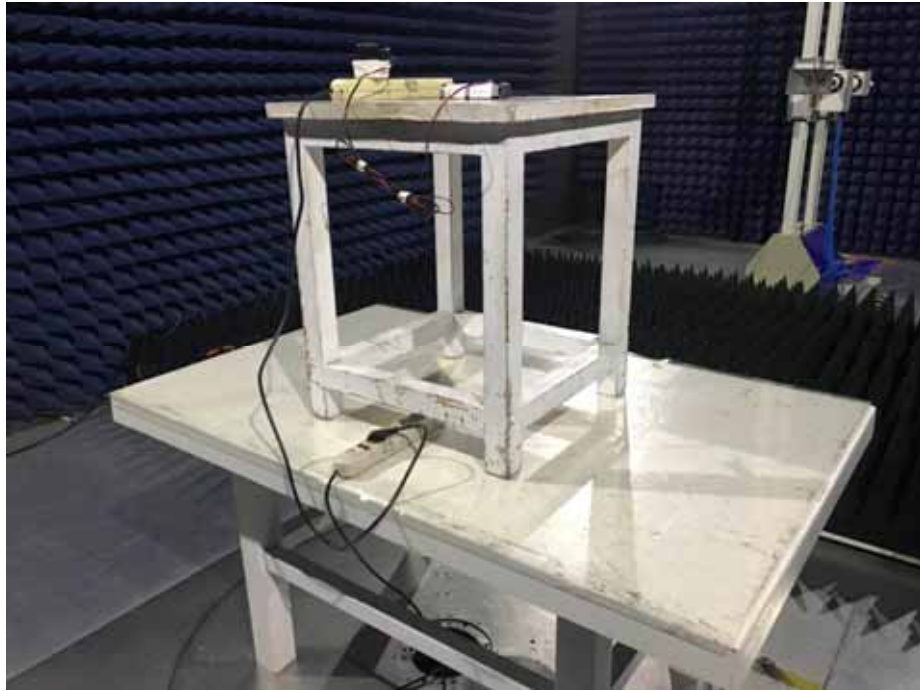
Test frequency from 30MHz to 1GHz





Test frequency above 1GHz





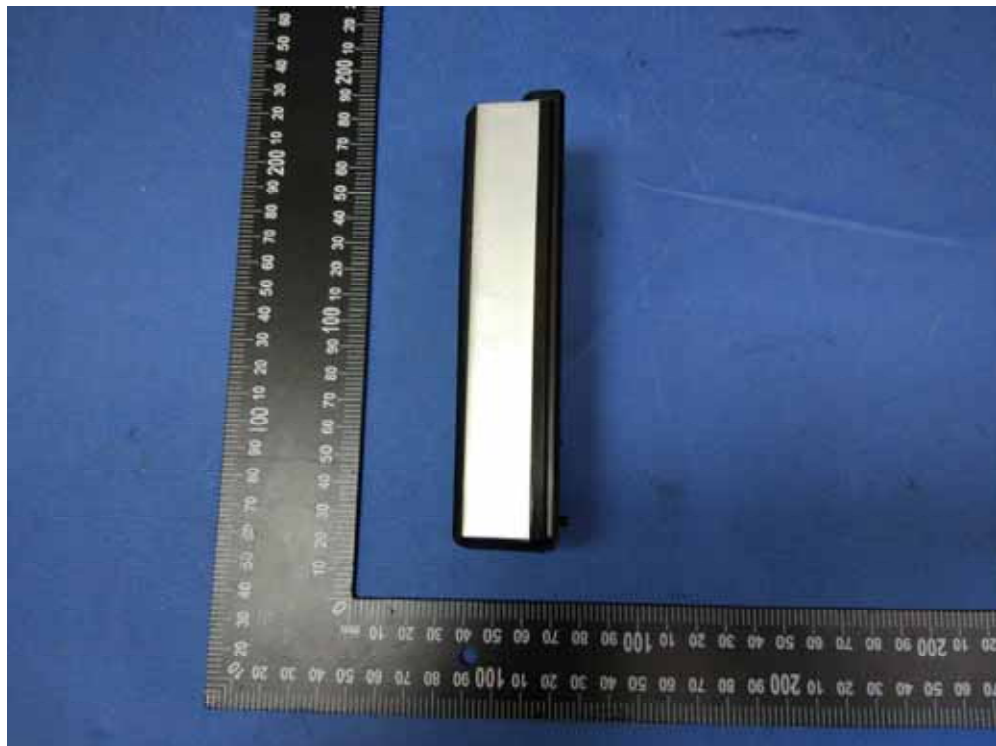
14.2 Photograph – Conducted Emission Test Setup

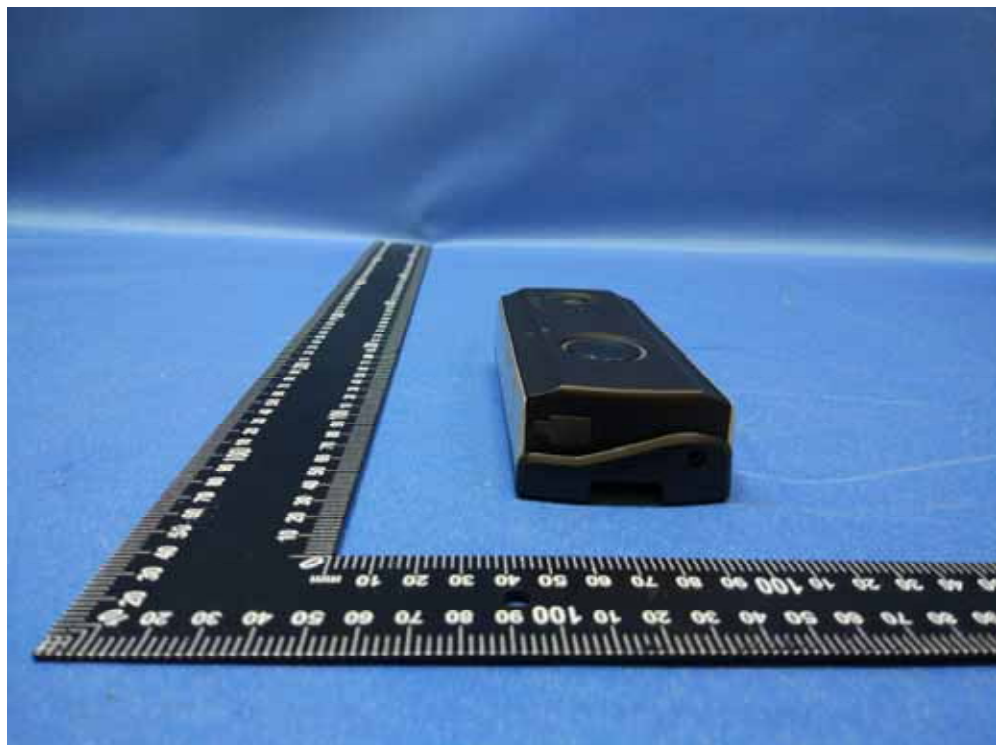


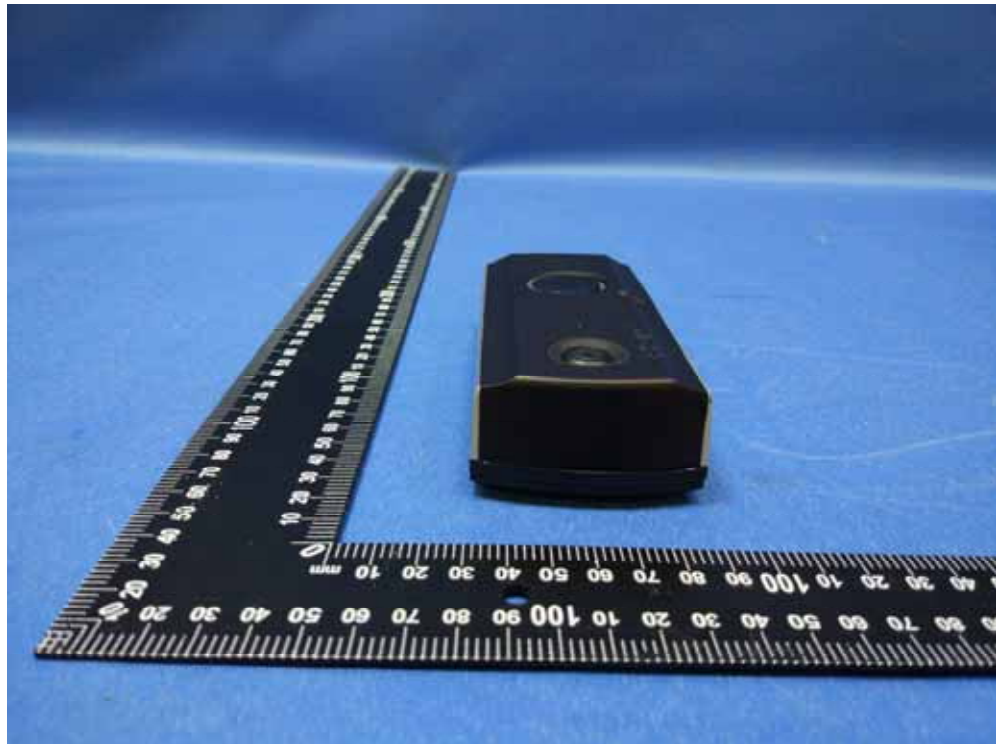
15 Photographs - Constructional Details

15.1 EUT – External View



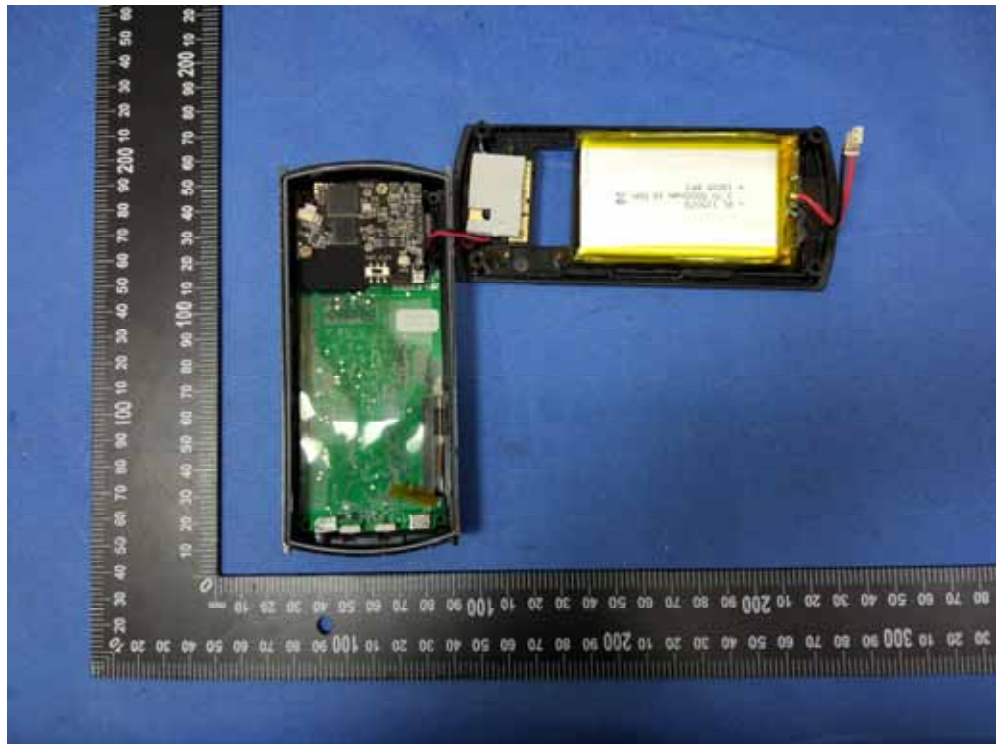


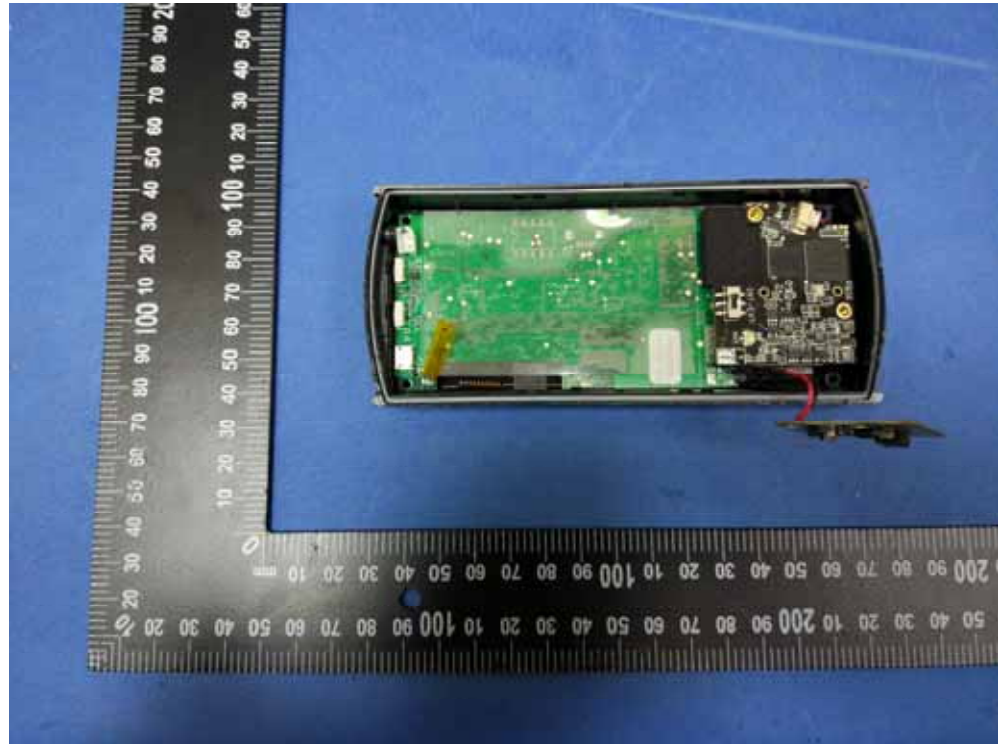


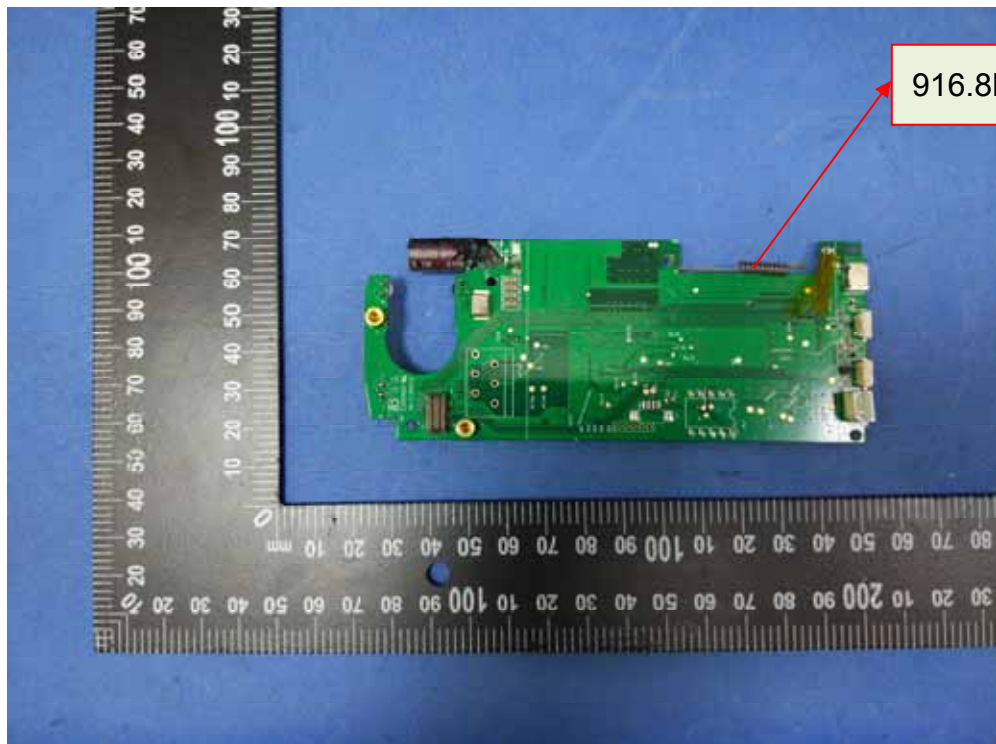
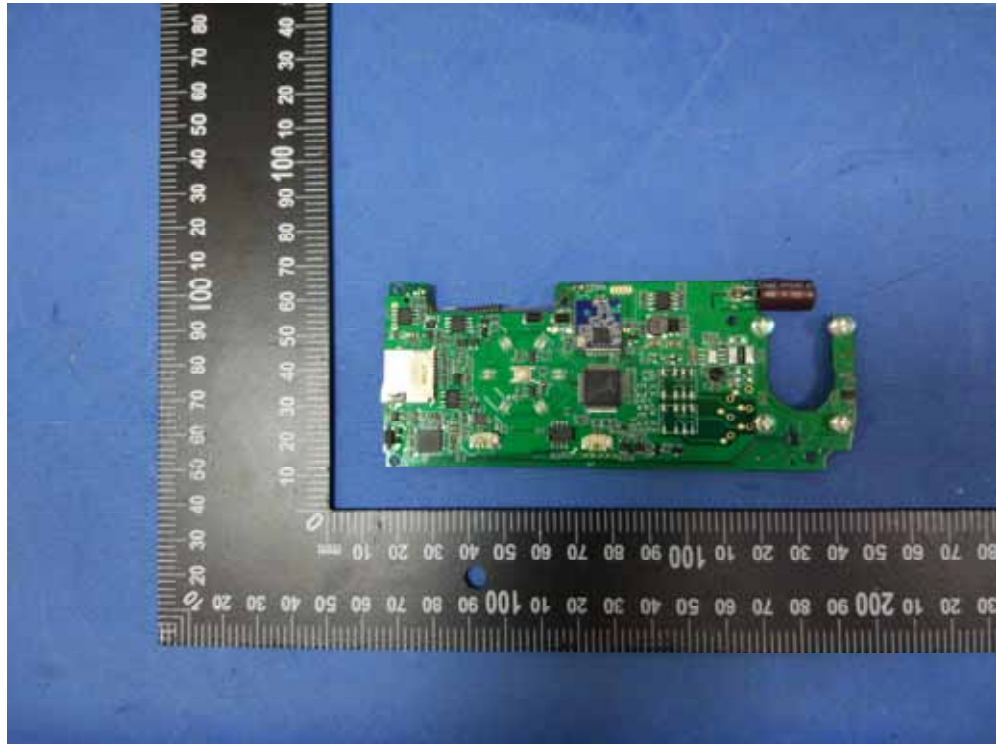


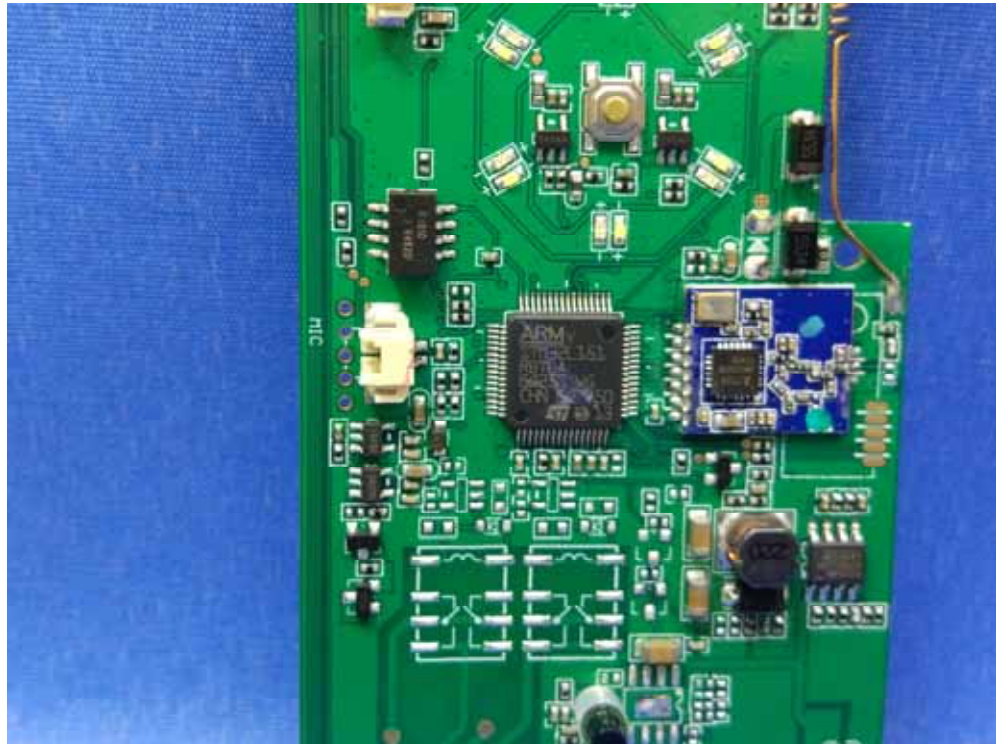


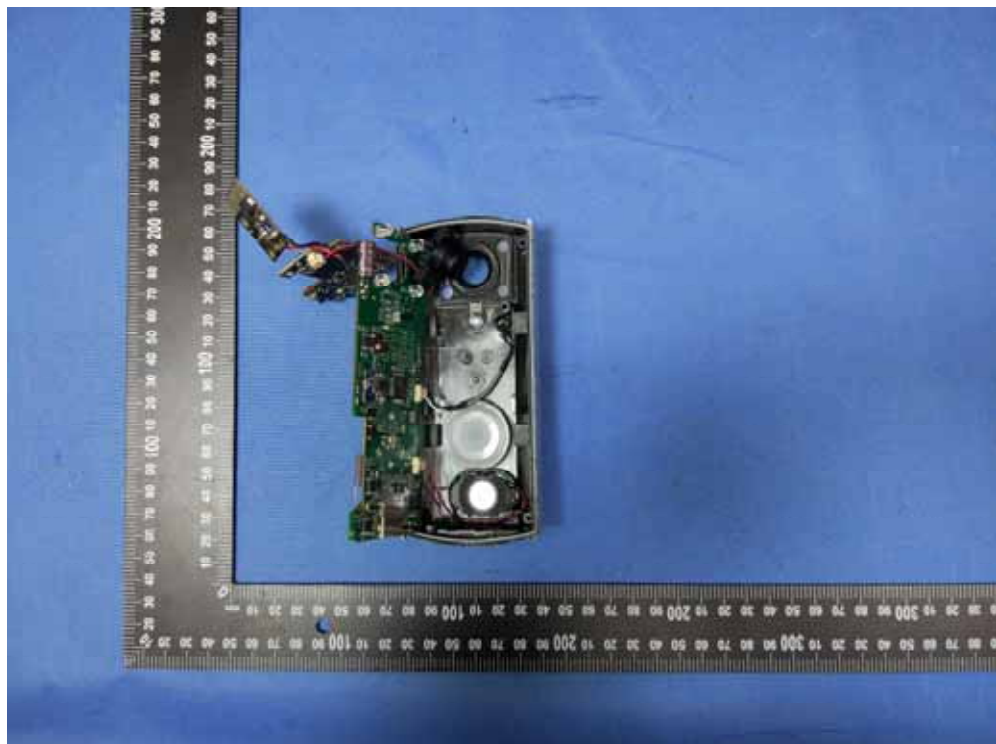
15.2 EUT – Internal View

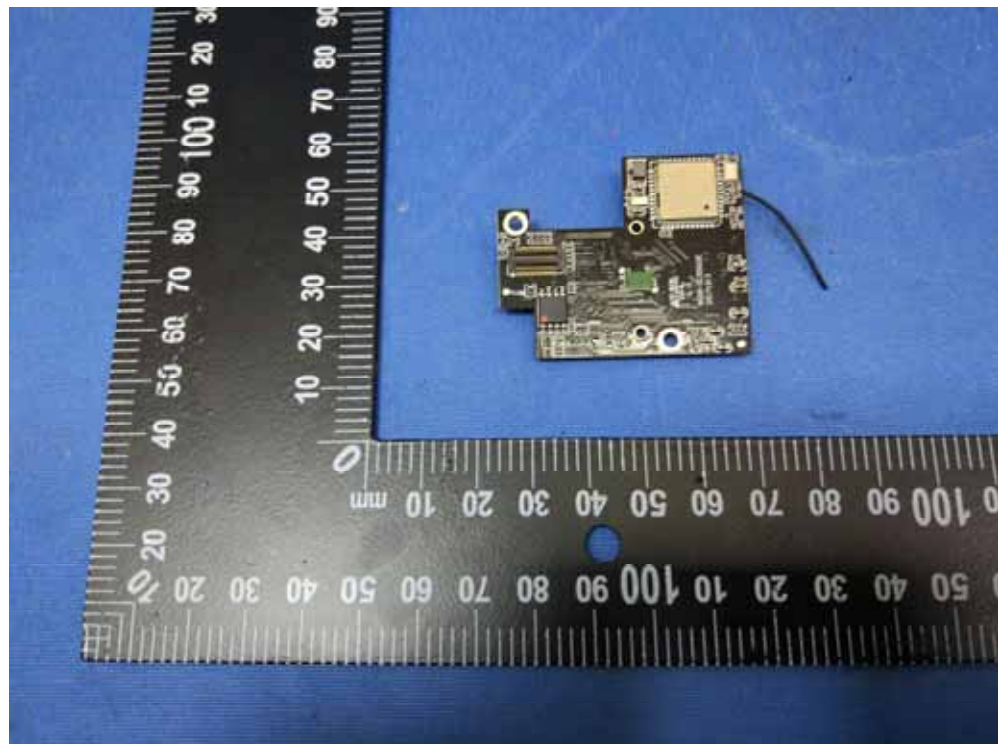
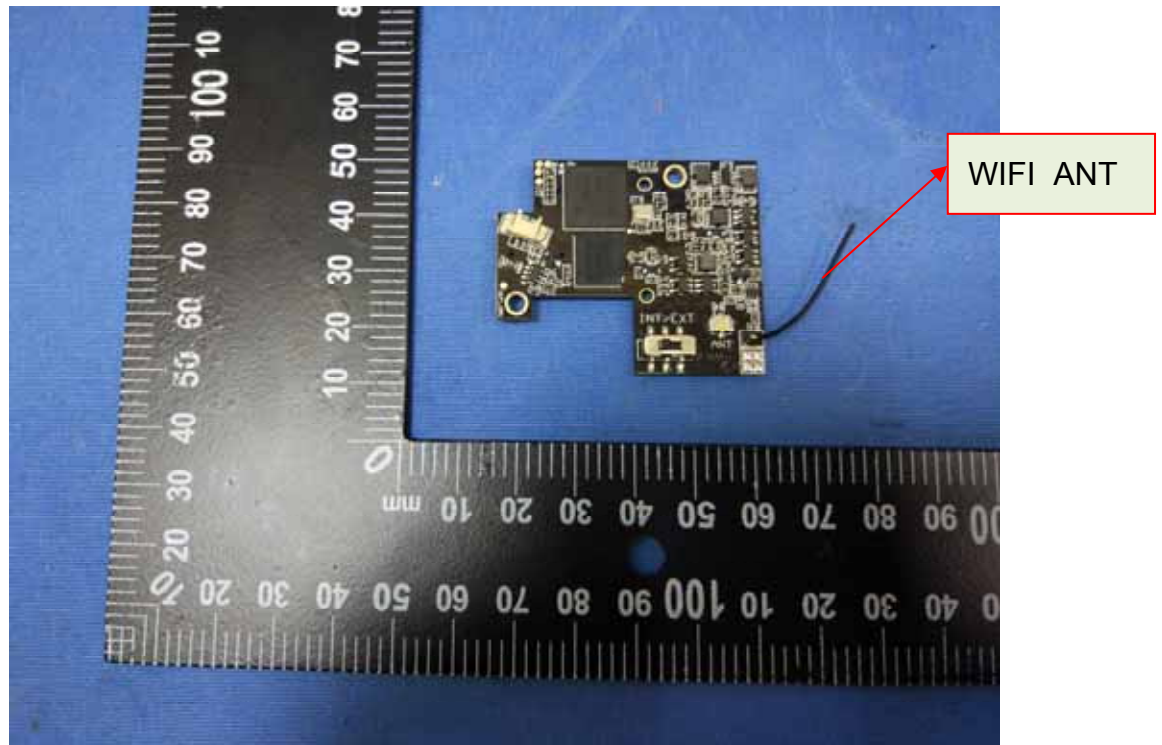




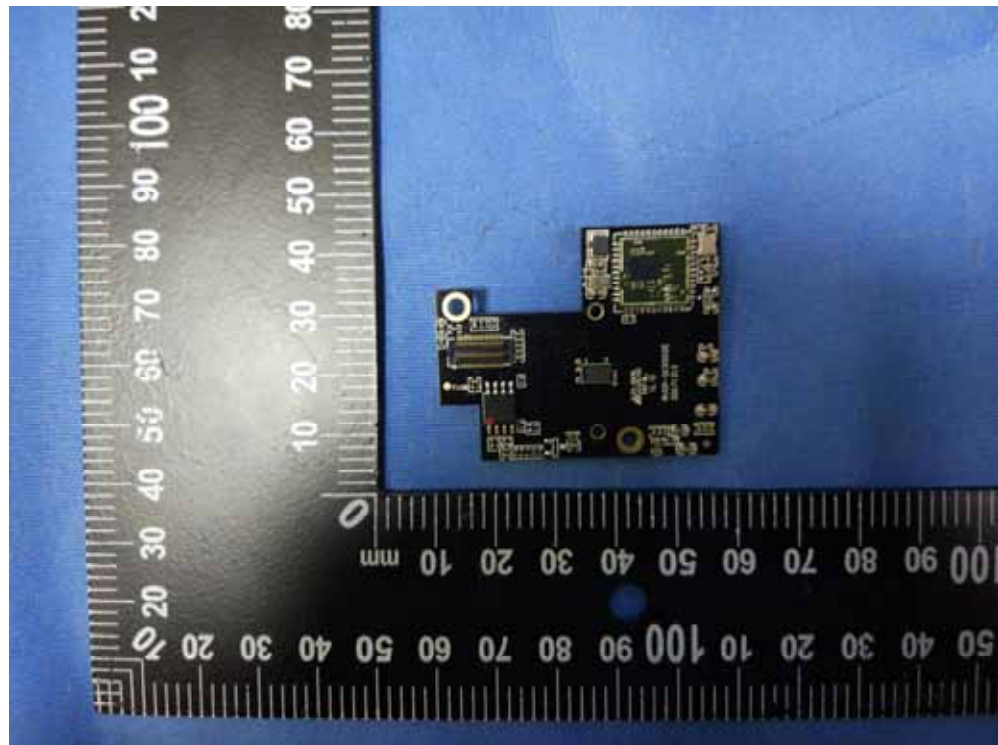


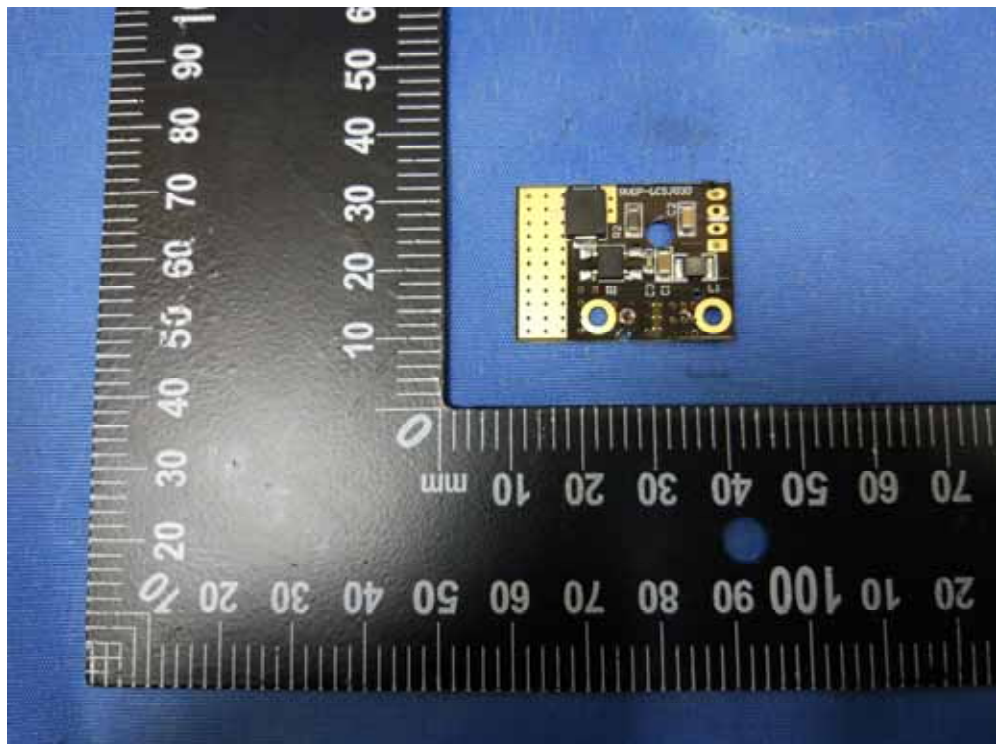
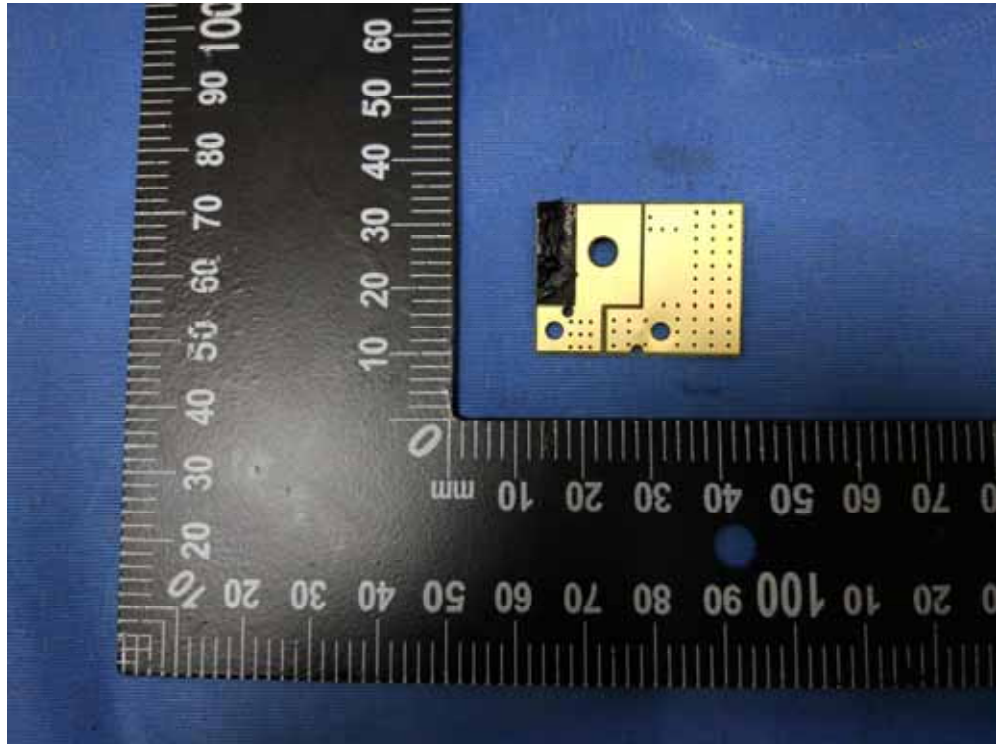


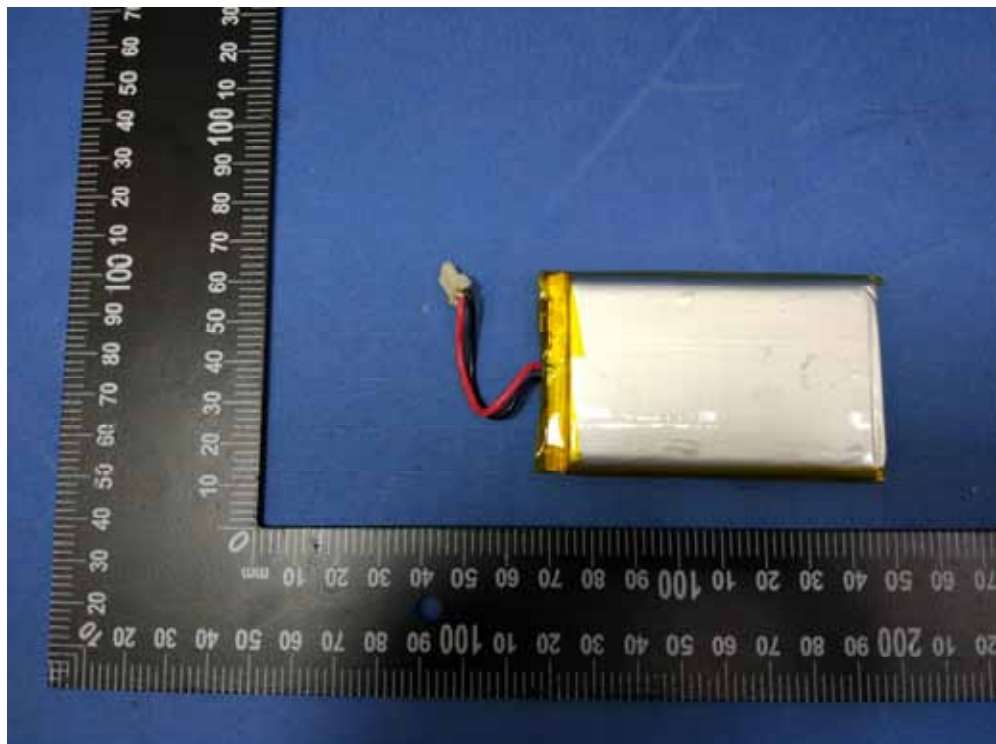
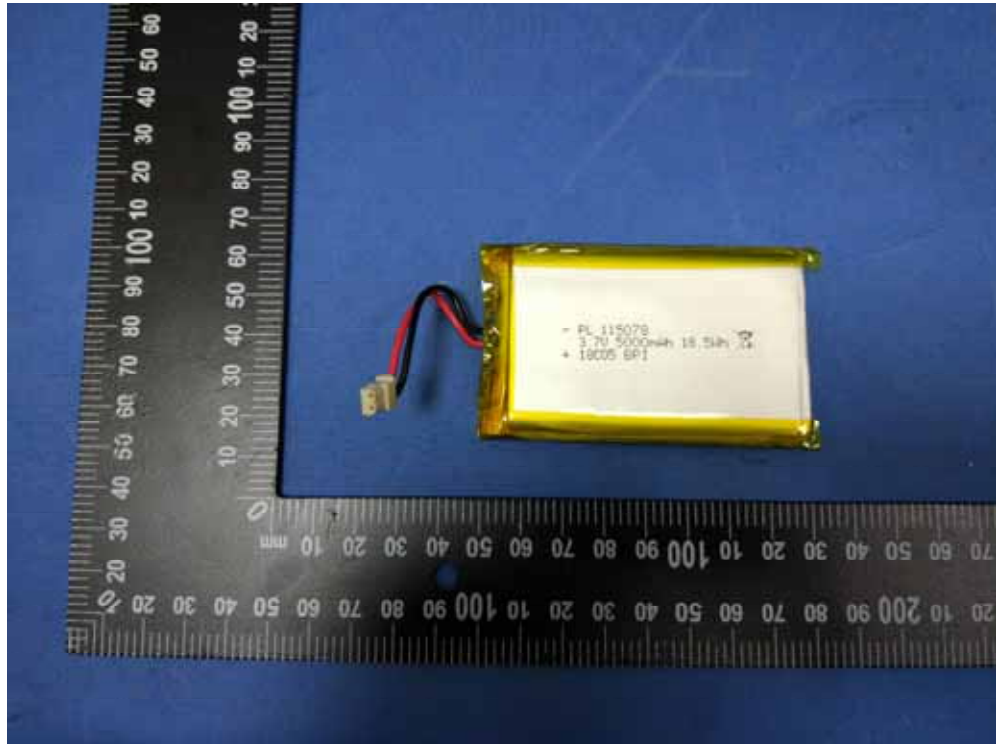


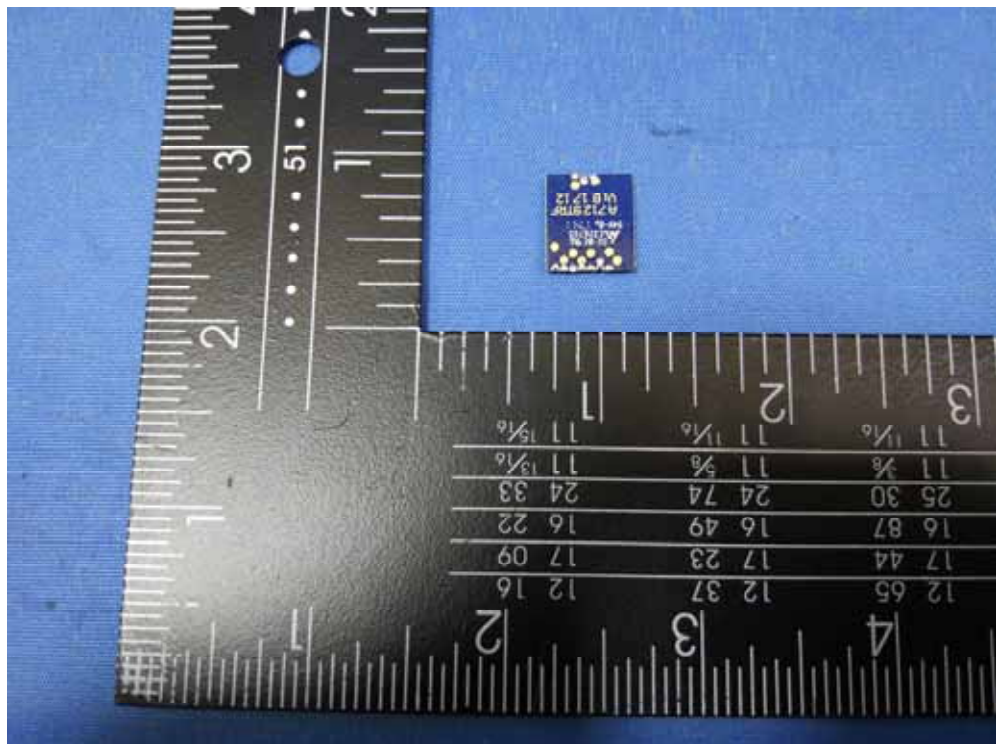
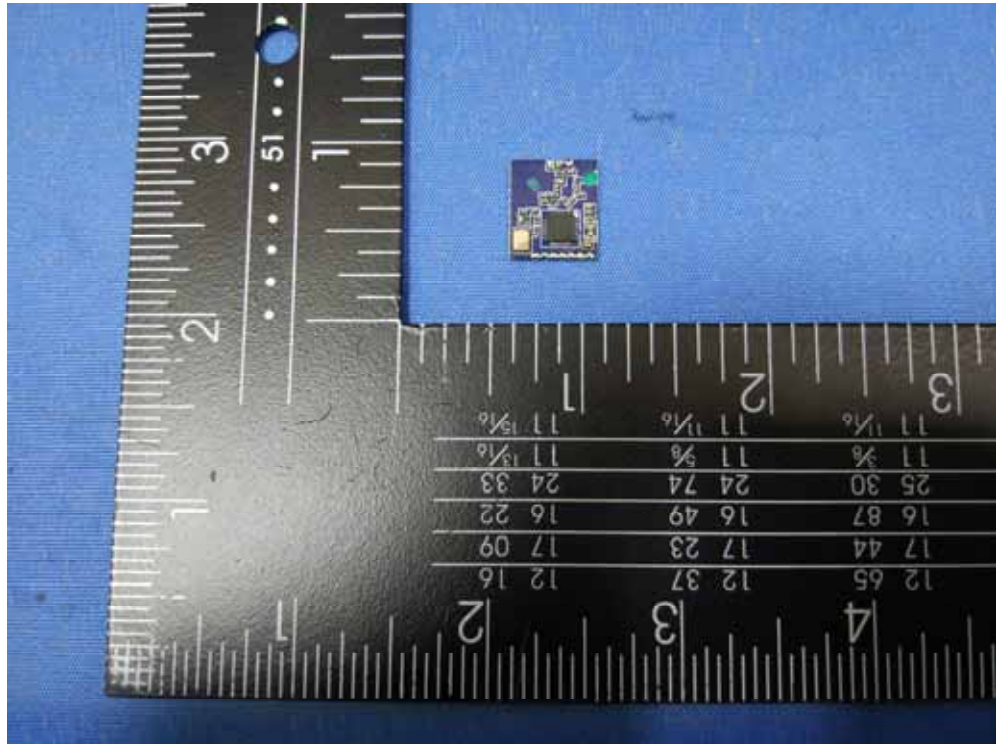


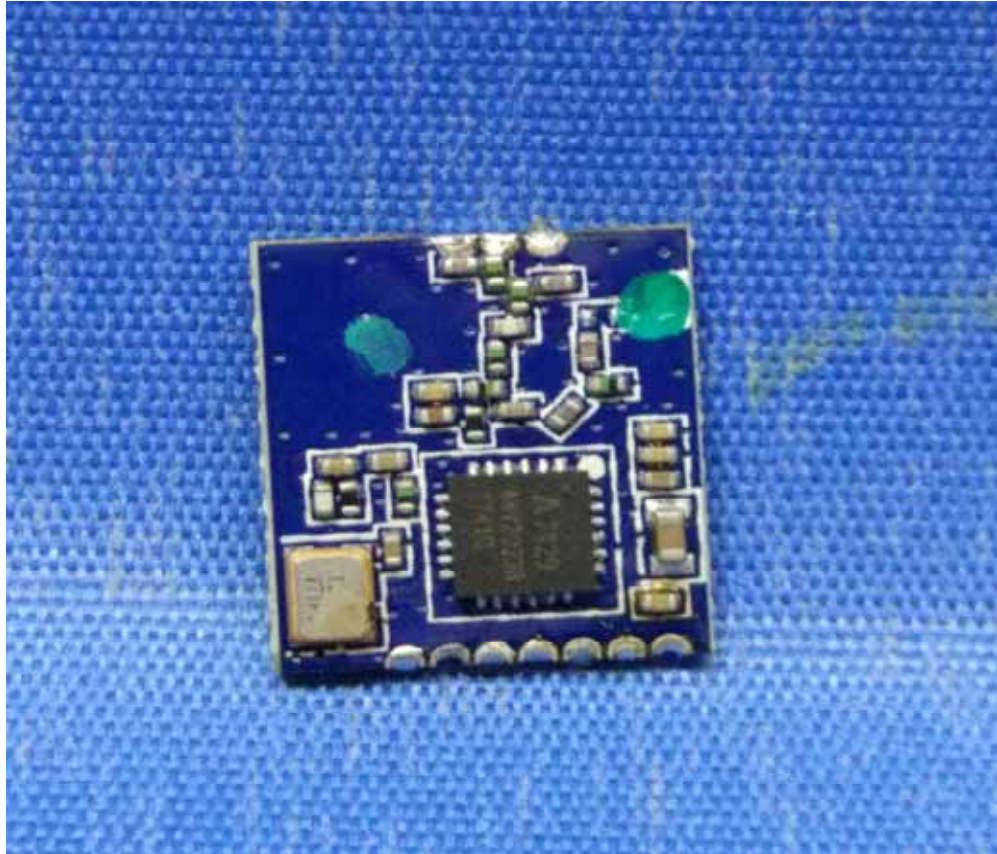












=====End of Report=====