RADIATED EMISSION ABOVE 1GHZ

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	**Antenna**	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.062	45.75	3.76	49.51	74.00	-24.49	peak
4824.062	42.72	3.76	46.48	54.00	-7.52	AVG
7236.093	37.69	8.17	45.86	74.00	-28.14	peak
7236.093	33.69	8.17	41.86	54.00	-12.14	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	**Antenna**	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.062	48.69	3.76	52.45	74.00	-21.55	peak
4824.062	44.05	3.76	47.81	54.00	-6.19	AVG
7236.093	38.41	8.17	46.58	74.00	-27.42	peak
7236.093	35.78	8.17	43.95	54.00	-10.05	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	**Antenna**	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.062	47.00	3.78	50.78	74.00	-23.22	peak
4874.062	43.17	3.78	46.95	54.00	-7.05	AVG
7311.093	40.72	8.23	48.95	74.00	-25.05	peak
7311.093	36.77	8.23	45.00	54.00	-9.00	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	**Antenna**	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.062	46.66	3.78	50.44	74.00	-23.56	peak
4874.062	44.20	3.78	47.98	54.00	-6.02	AVG
7311.093	38.75	8.23	46.98	74.00	-27.02	peak
7311.093	35.76	8.23	43.99	54.00	-10.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	**Antenna**	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.062	46.97	3.81	50.78	74.00	-23.22	peak
4924.062	43.81	3.81	47.62	54.00	-6.38	AVG
7386.093	40.38	8.27	48.65	74.00	-25.35	peak
7386.093	37.68	8.27	45.95	54.00	-8.05	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25°C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	**Antenna**	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.062	47.89	3.81	51.70	74.00	-22.30	peak
4924.062	45.14	3.81	48.95	54.00	-5.05	AVG
7386.093	39.42	8.27	47.69	74.00	-26.31	peak
7386.093	36.95	8.27	45.22	54.00	-8.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

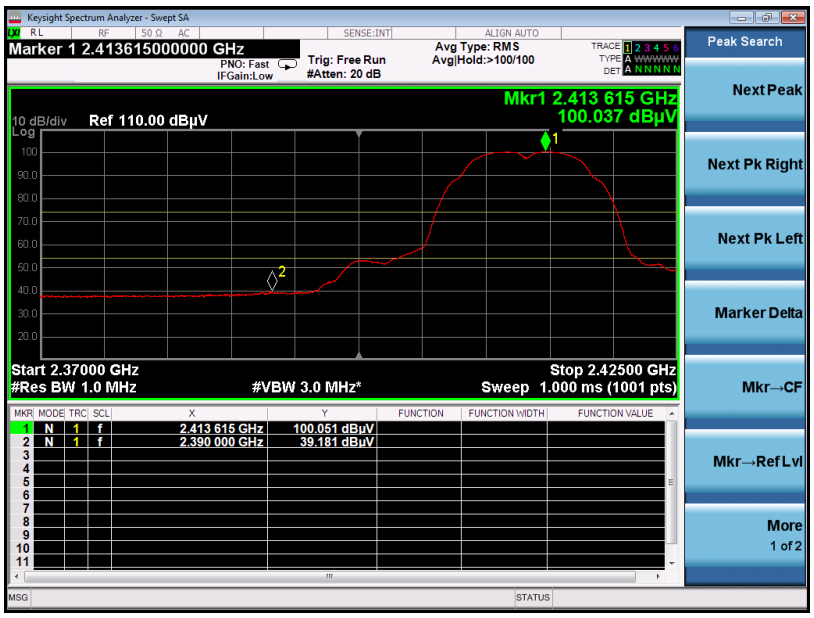
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the “Input Correction” of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.

12.3. TEST RESULT

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	**Antenna**	Horizontal

PK

AV

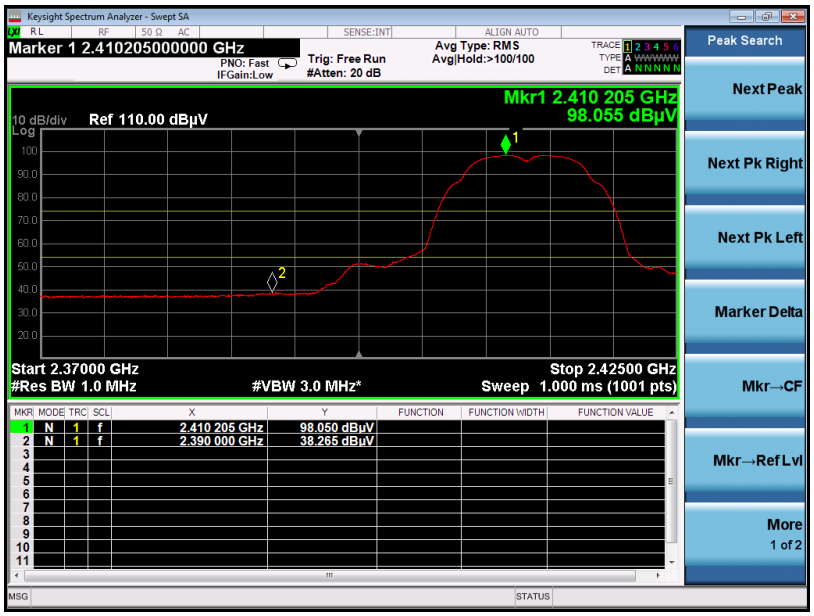


RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	**Antenna**	Vertical

PK

AV



RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	**Antenna**	Horizontal

PK

AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	**Antenna**	Vertical

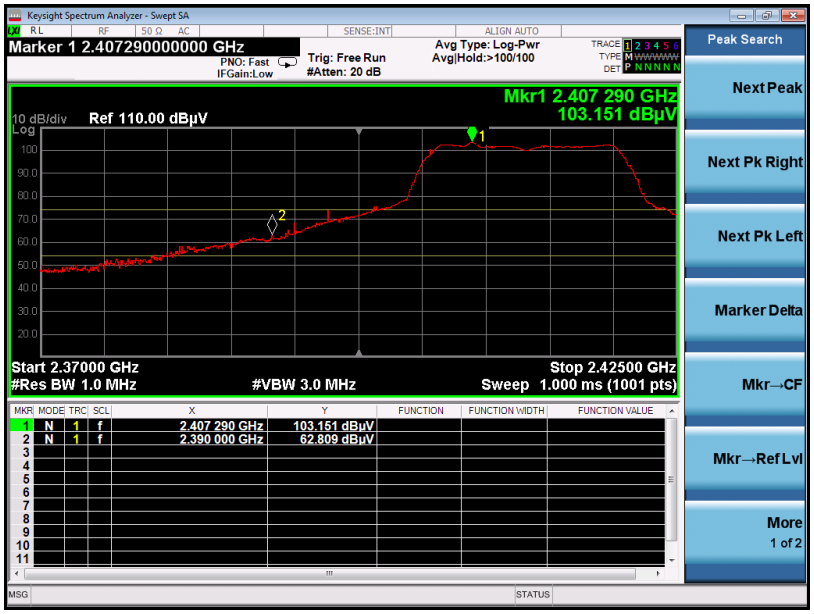
PK

AV

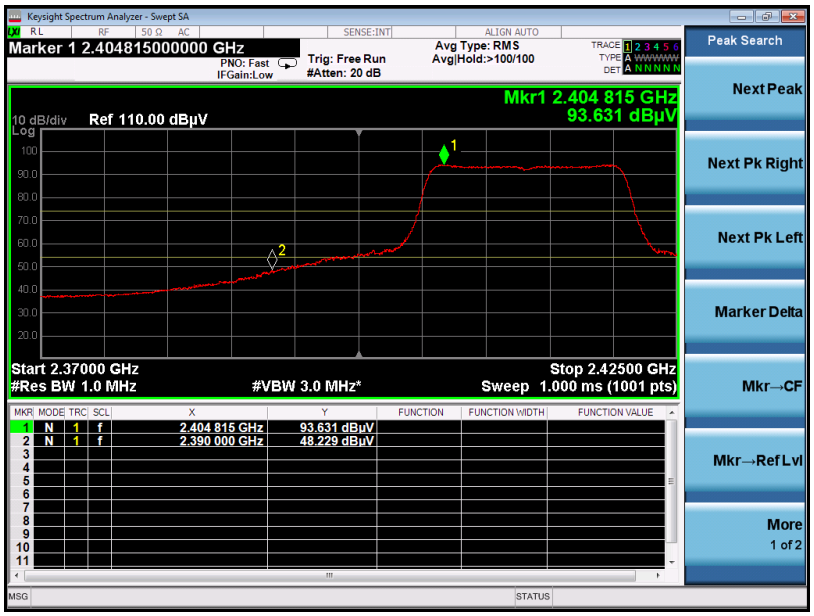
RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	**Antenna**	Horizontal

PK



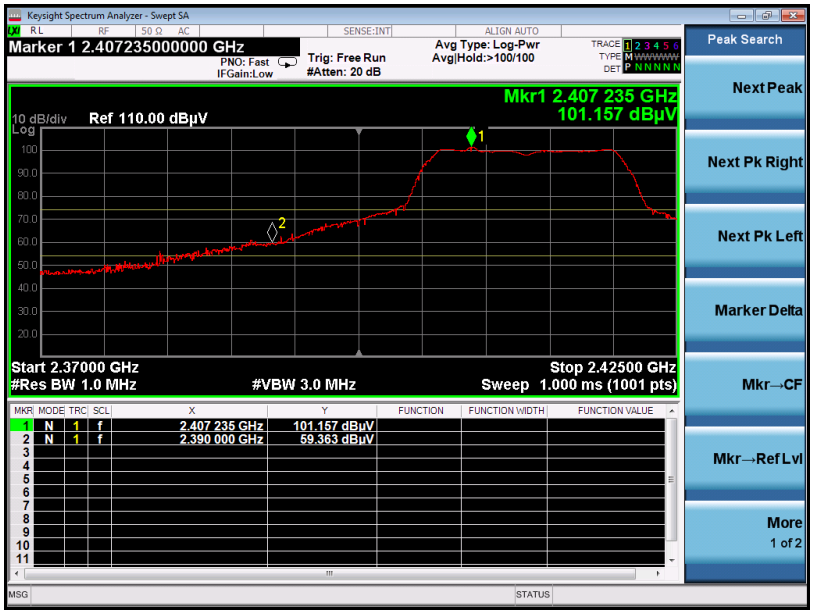
AV



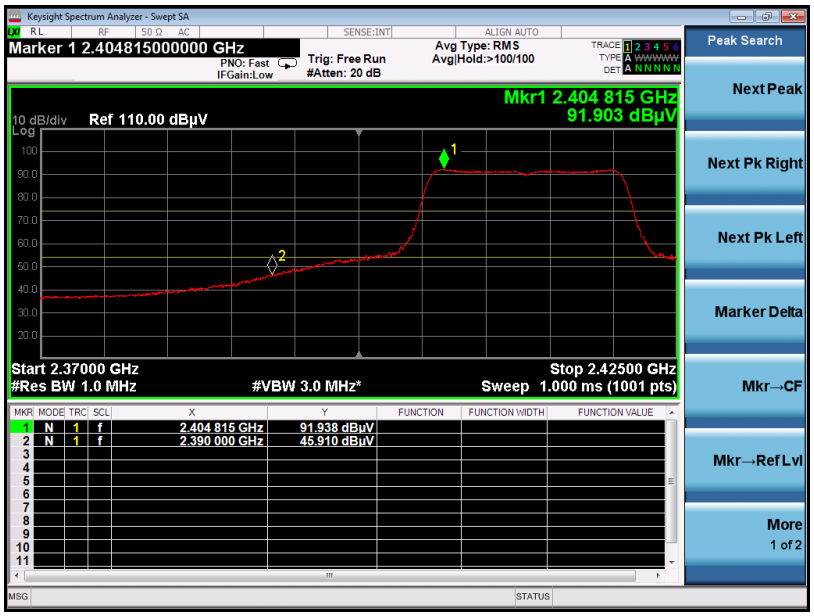
RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	**Antenna**	Vertical

PK



AV



RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	**Antenna**	Horizontal

PK

AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	**Antenna**	Vertical

PK

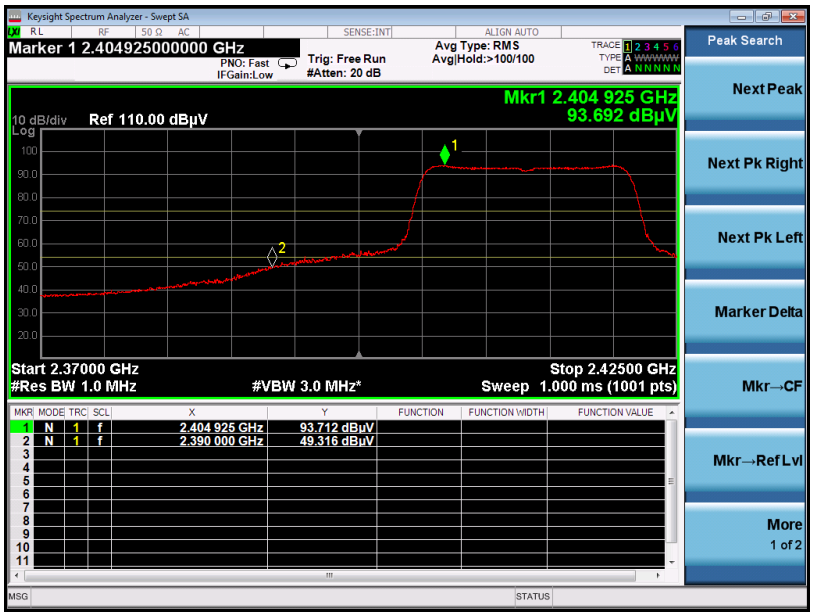
AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	**Antenna**	Horizontal

PK

AV

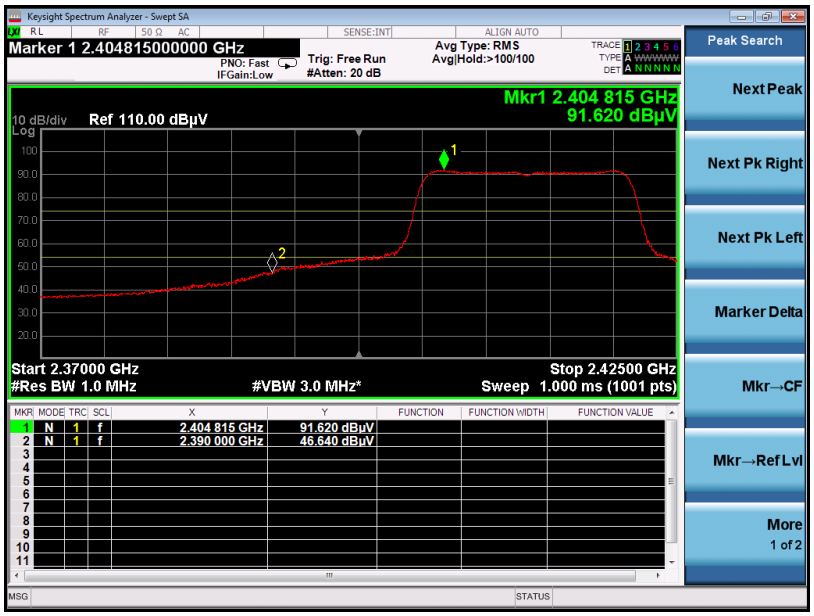


RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	**Antenna**	Vertical

PK

AV

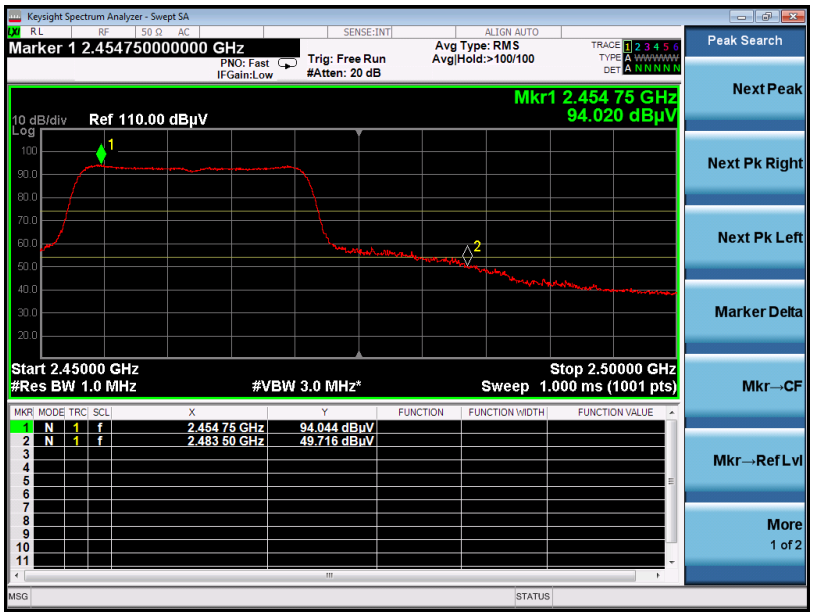


RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	**Antenna**	Horizontal

PK

AV



RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	**Antenna**	Vertical

PK

AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	**Antenna**	Horizontal

PK

AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	**Antenna**	Vertical

PK

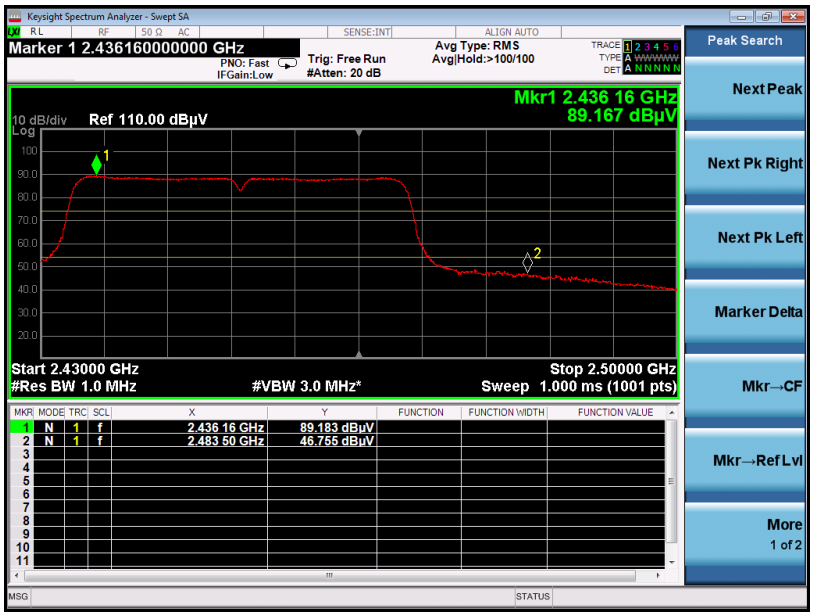
AV

RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	**Antenna**	Horizontal

PK

AV

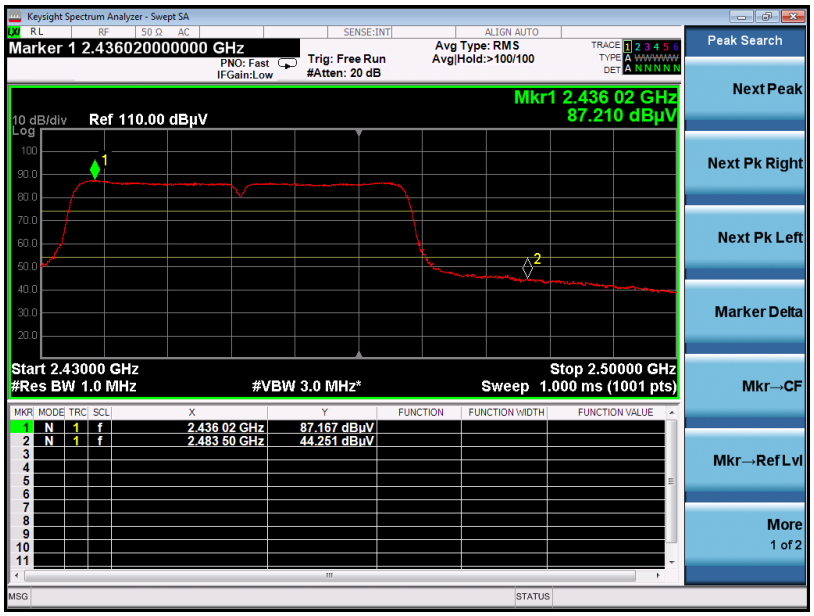


RESULT: PASS

EUT	Intelligent Indoor dog potty	**Model Name**	DCC-01101
Temperature	25˚C	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	**Antenna**	Vertical

PK

AV



RESULT: PASS

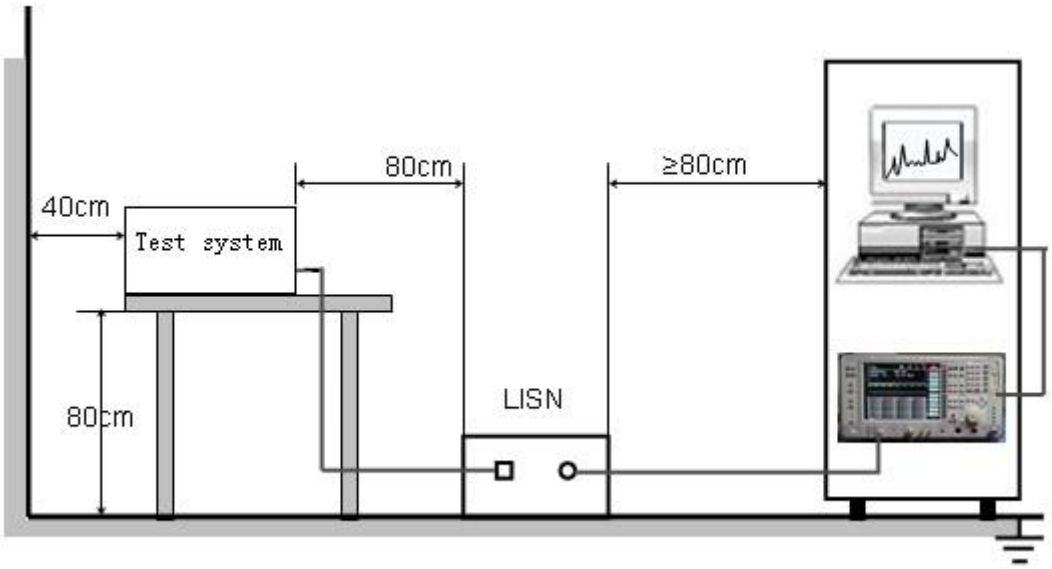
13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

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

13.2. BLOCK DIAGRAM OF TEST SETUP



13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

(1) The equipment was set up as per the test configuration to simulate typical actual 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 as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a 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.

(2) Support equipment, if needed, was placed as per ANSI C63.10.

(3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

(4) The EUT received DC 5V power from pc which received AC120V/60Hz power from a LISN.

(5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

(6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

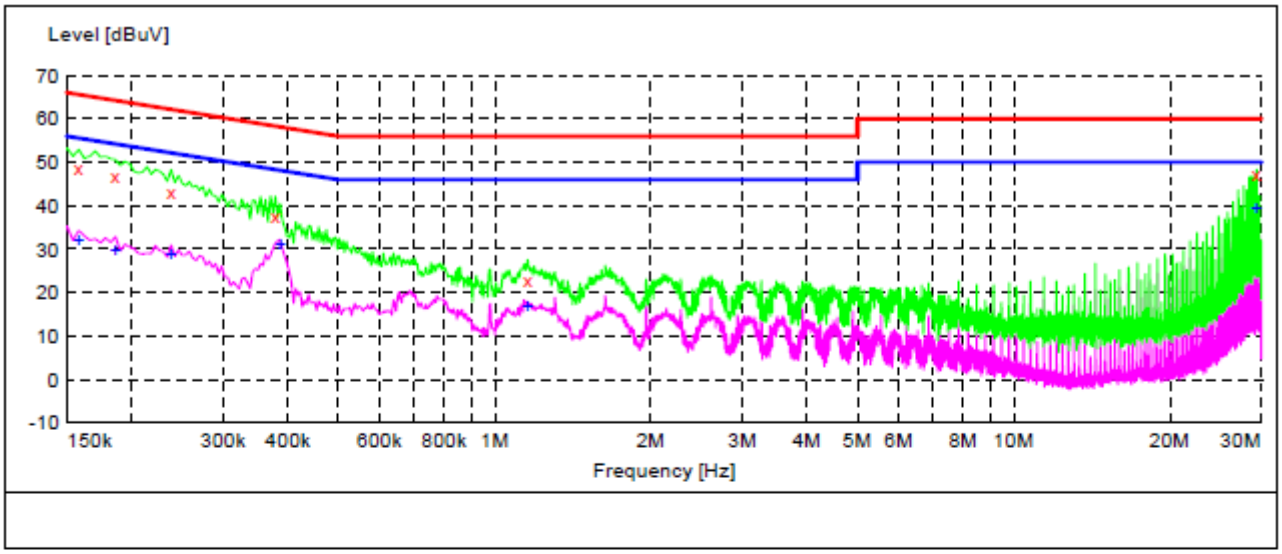
(7) During the above scans, the emissions were maximized by cable manipulation.

(8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.

(9) 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. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "TEST_fin"

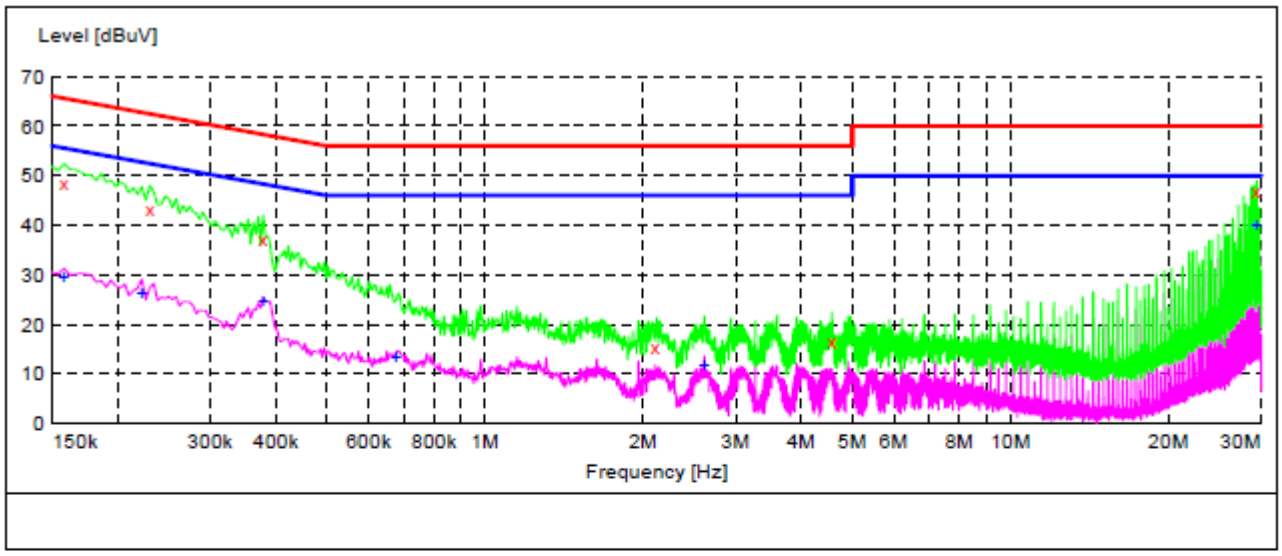
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	48.70	10.3	66	16.9	QP	L1	FLO
0.186000	47.00	10.3	64	17.2	QP	L1	FLO
0.238000	43.20	10.3	62	19.0	QP	L1	FLO
0.378000	37.80	10.3	58	20.5	QP	L1	FLO
1.158000	22.80	10.4	56	33.2	QP	L1	FLO
29.394000	47.30	11.2	60	12.7	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	32.10	10.3	56	23.5	AV	L1	FLO
0.186000	29.90	10.3	54	24.3	AV	L1	FLO
0.238000	29.00	10.3	52	23.2	AV	L1	FLO
0.386000	31.00	10.3	48	17.1	AV	L1	FLO
1.158000	16.90	10.4	46	29.1	AV	L1	FLO
29.394000	39.20	11.2	50	10.8	AV	L1	FLO

RESULT: PASS

LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	48.30	10.3	66	17.3	QP	N	FLO
0.230000	43.10	10.3	62	19.3	QP	N	FLO
0.378000	37.40	10.3	58	20.9	QP	N	FLO
2.106000	15.50	10.4	56	40.5	QP	N	FLO
4.570000	16.60	10.4	56	39.4	QP	N	FLO
29.394000	46.90	11.2	60	13.1	QP	N	FLO

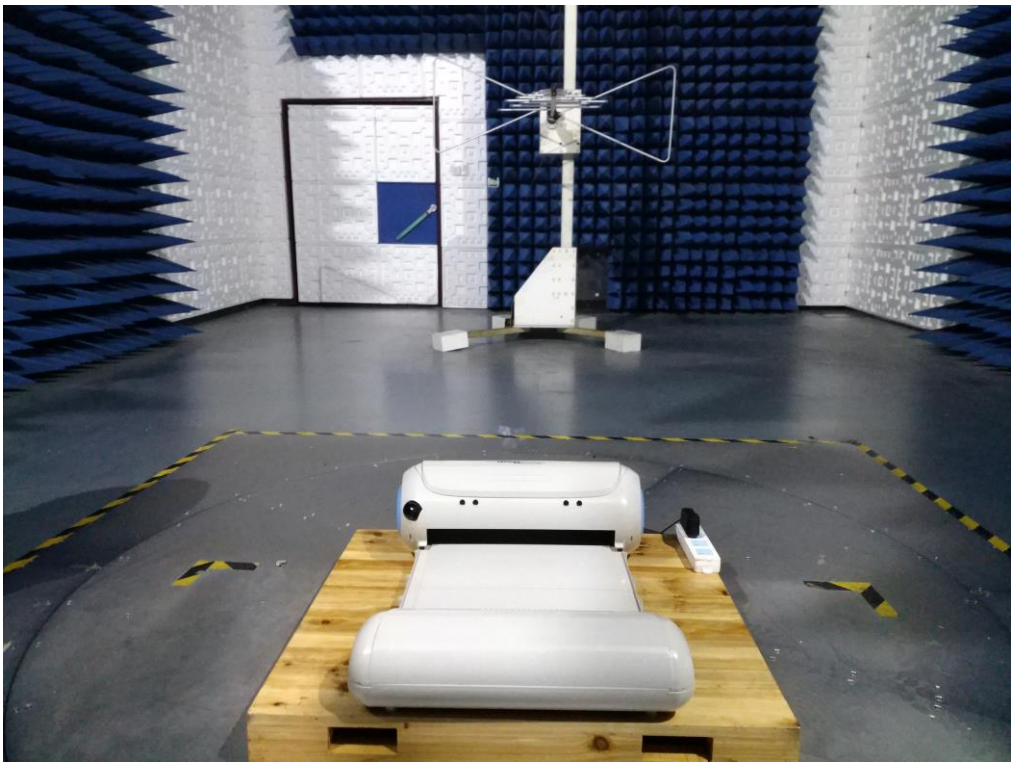
MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	29.50	10.3	56	26.1	AV	N	FLO
0.222000	26.50	10.3	53	26.2	AV	N	FLO
0.378000	24.60	10.3	48	23.7	AV	N	FLO
0.678000	13.30	10.3	46	32.7	AV	N	FLO
2.610000	11.90	10.4	46	34.1	AV	N	FLO
29.394000	40.10	11.2	50	9.9	AV	N	FLO

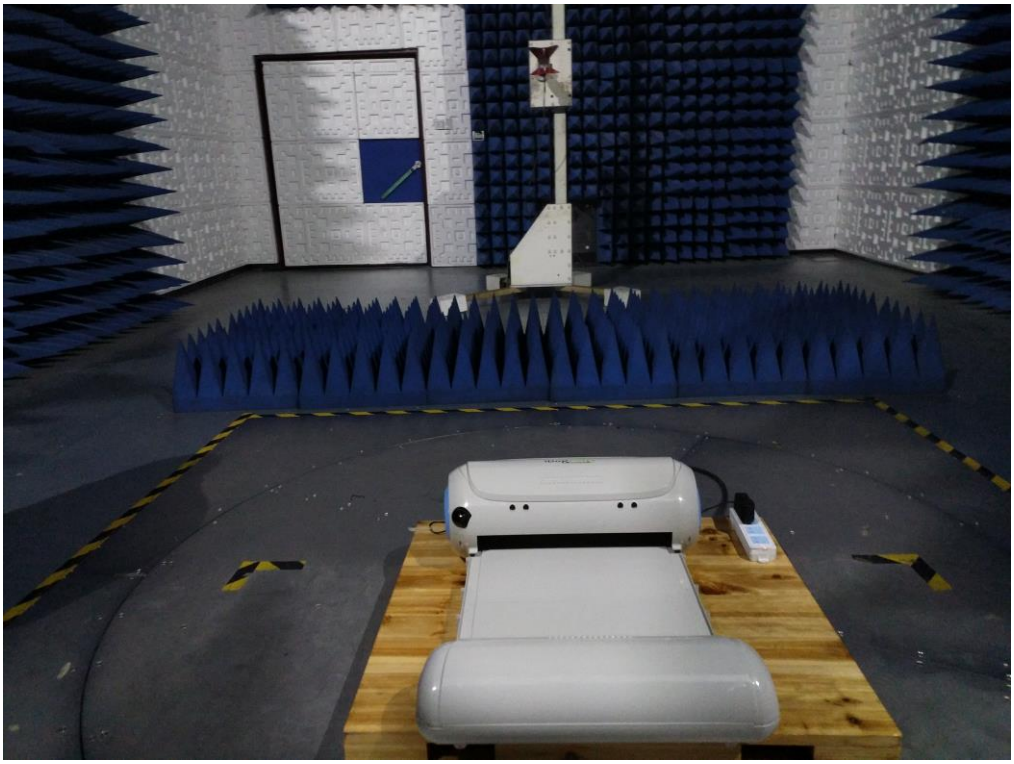
RESULT: PASS

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

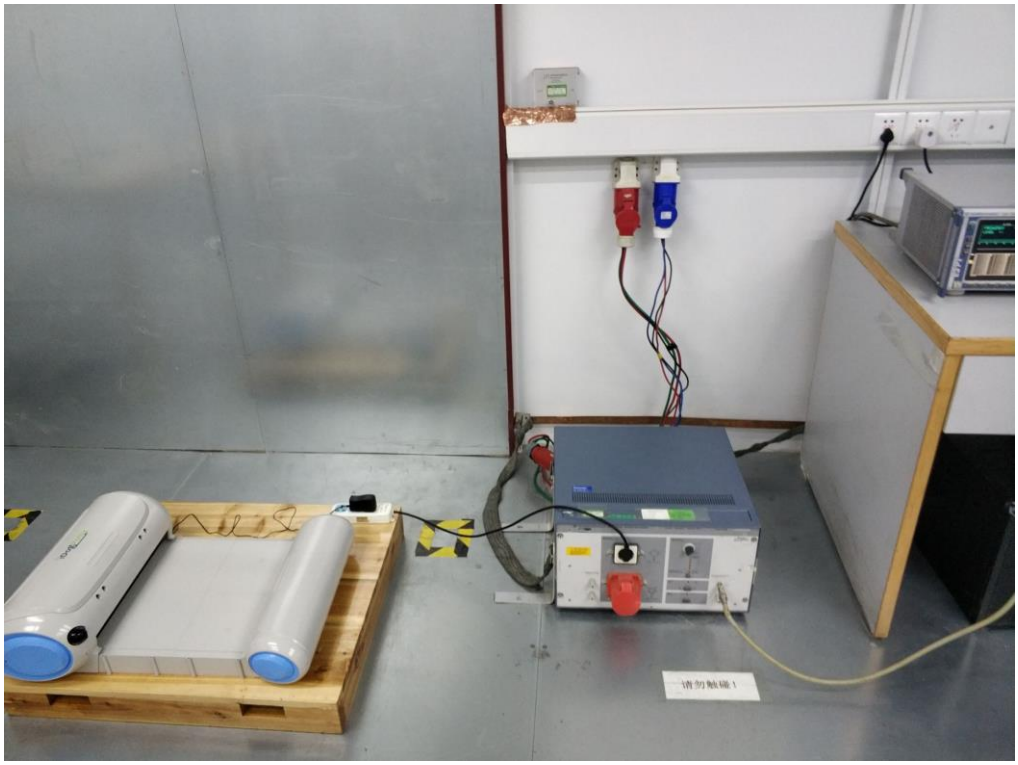
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



FCC CONDUCTED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

TOP VIEW OF EUT

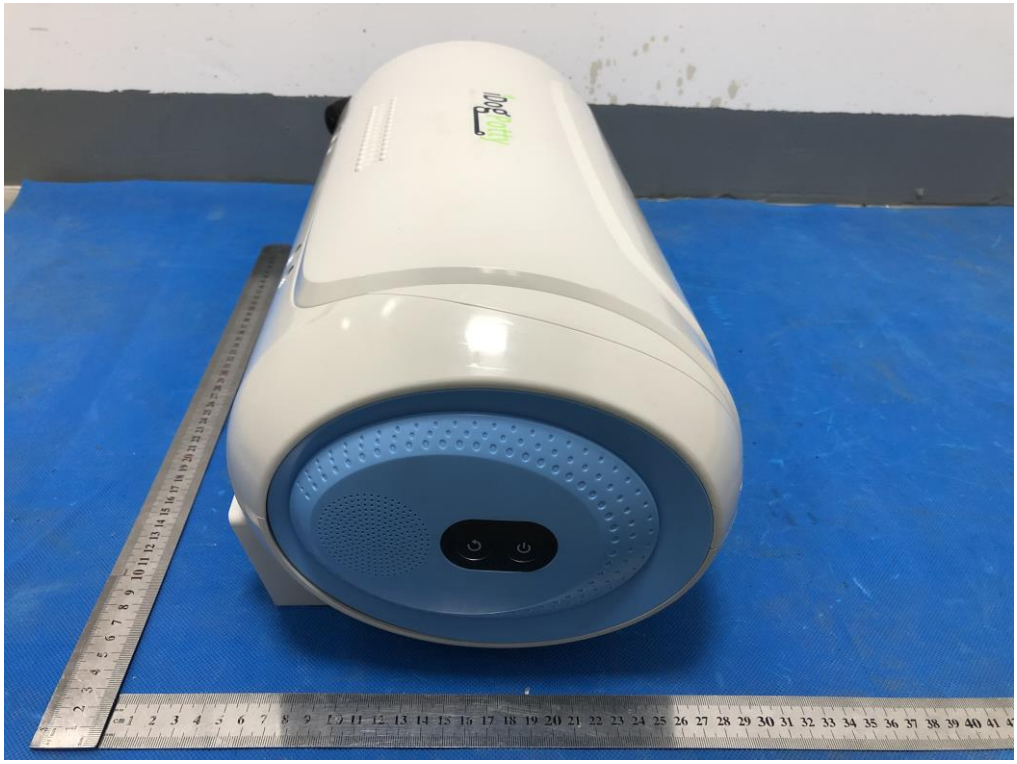
BOTTOM VIEW OF EUT

FRONT VIEW OF EUT

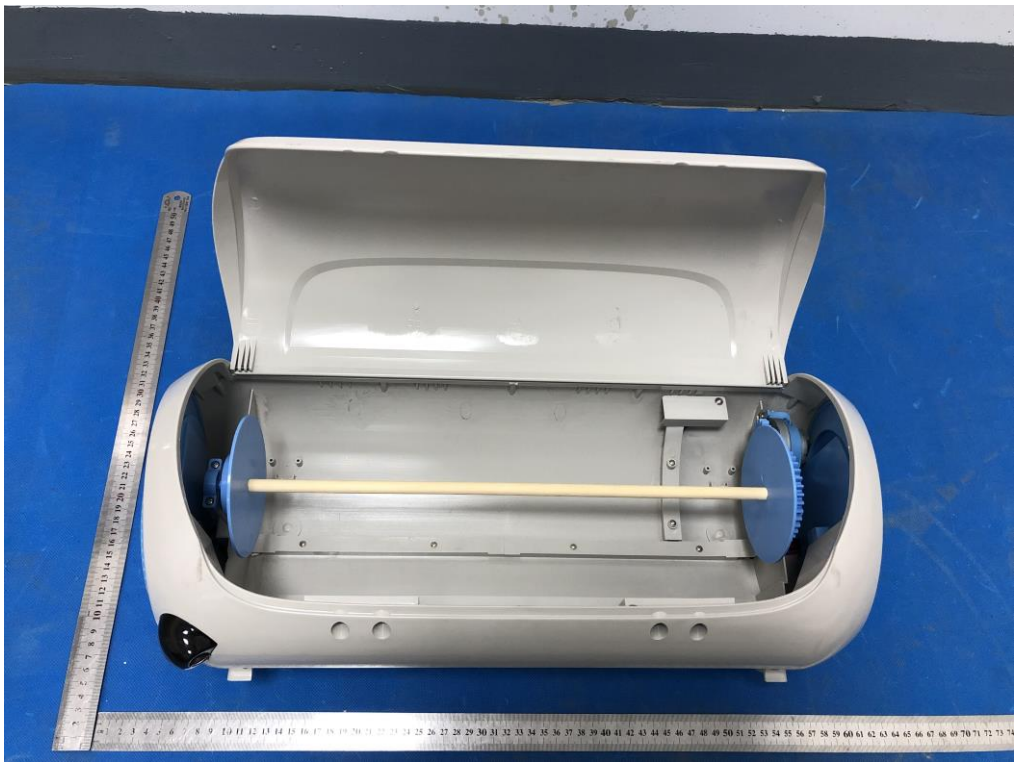
BACK VIEW OF EUT

LEFT VIEW OF EUT

RIGHT VIEW OF EUT



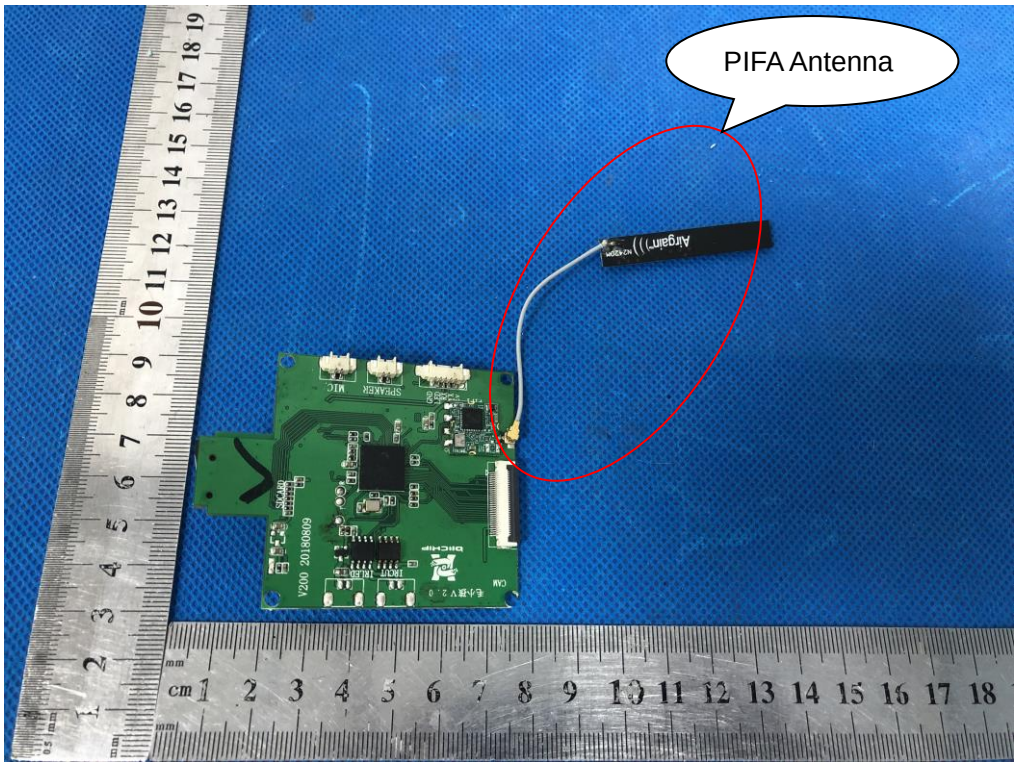
OPEN VIEW OF EUT-1



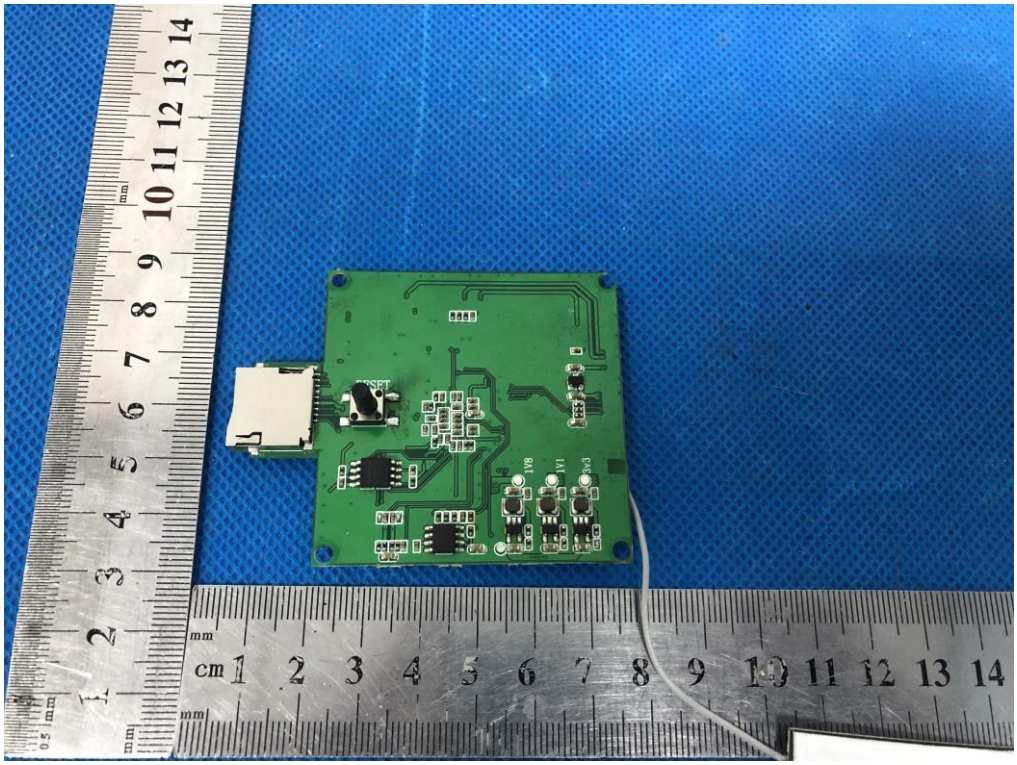
OPEN VIEW OF EUT-2

VIEW OF EUT (PORT)

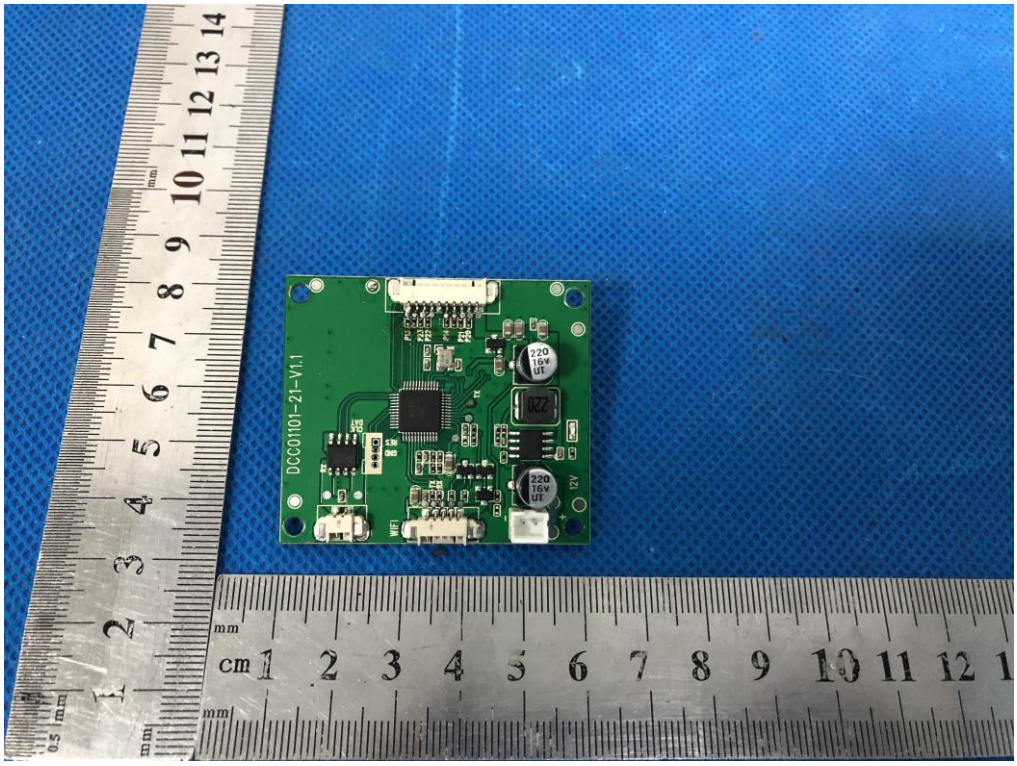
INTERNAL VIEW OF EUT-1



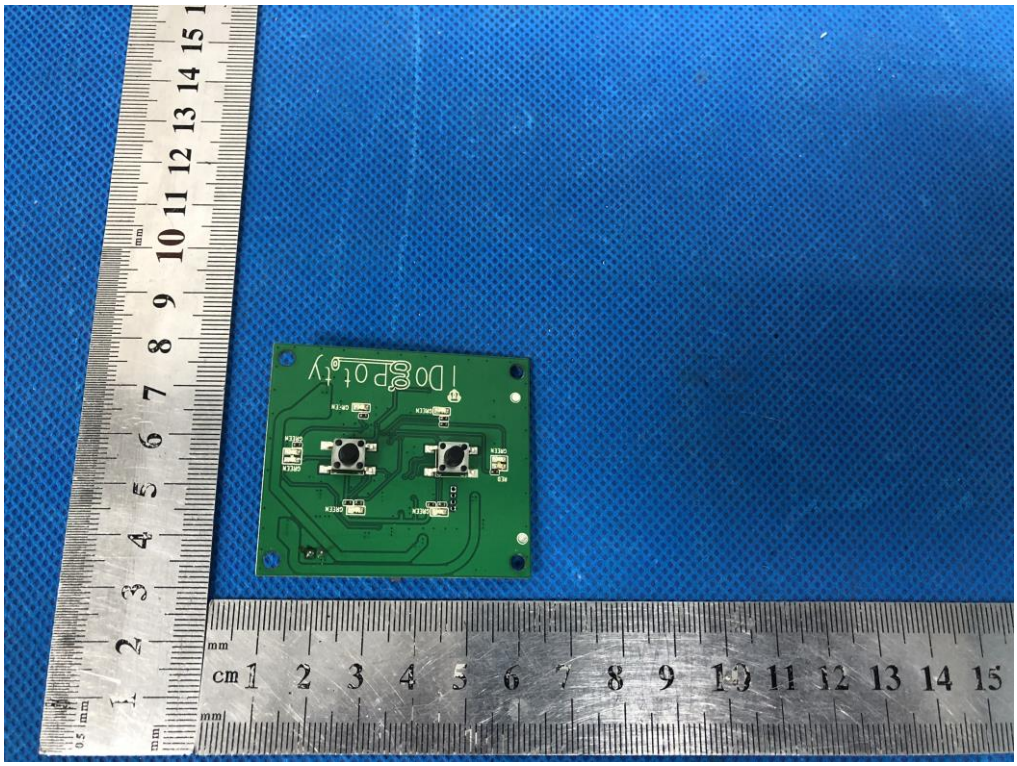
INTERNAL VIEW OF EUT-2



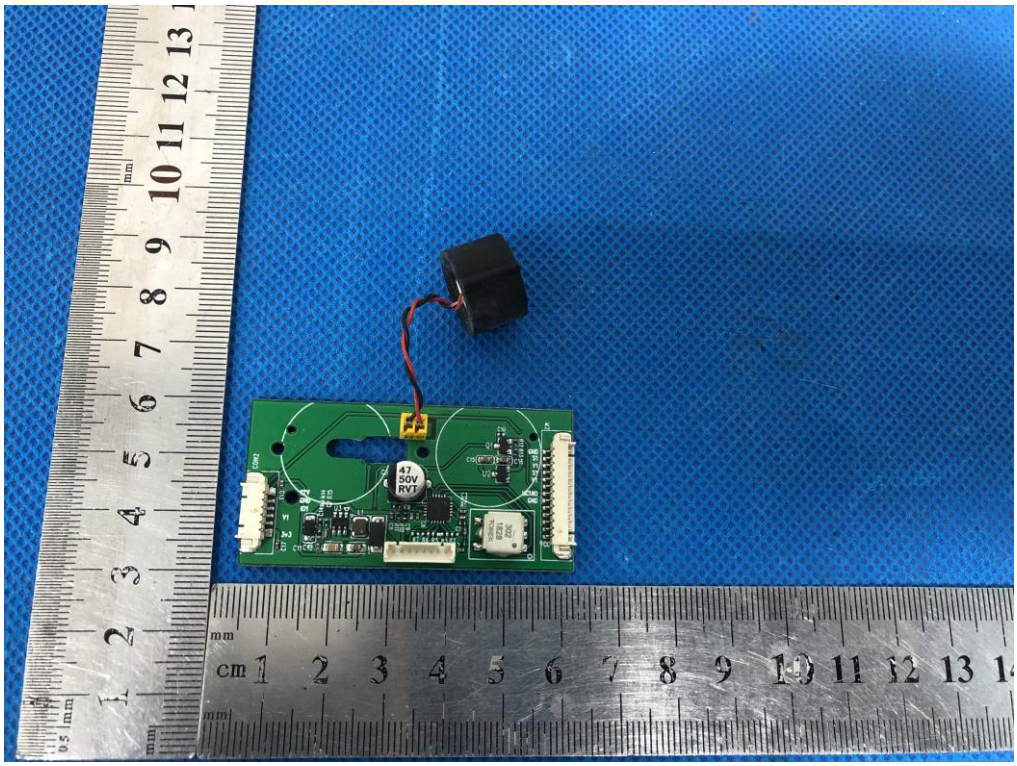
INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

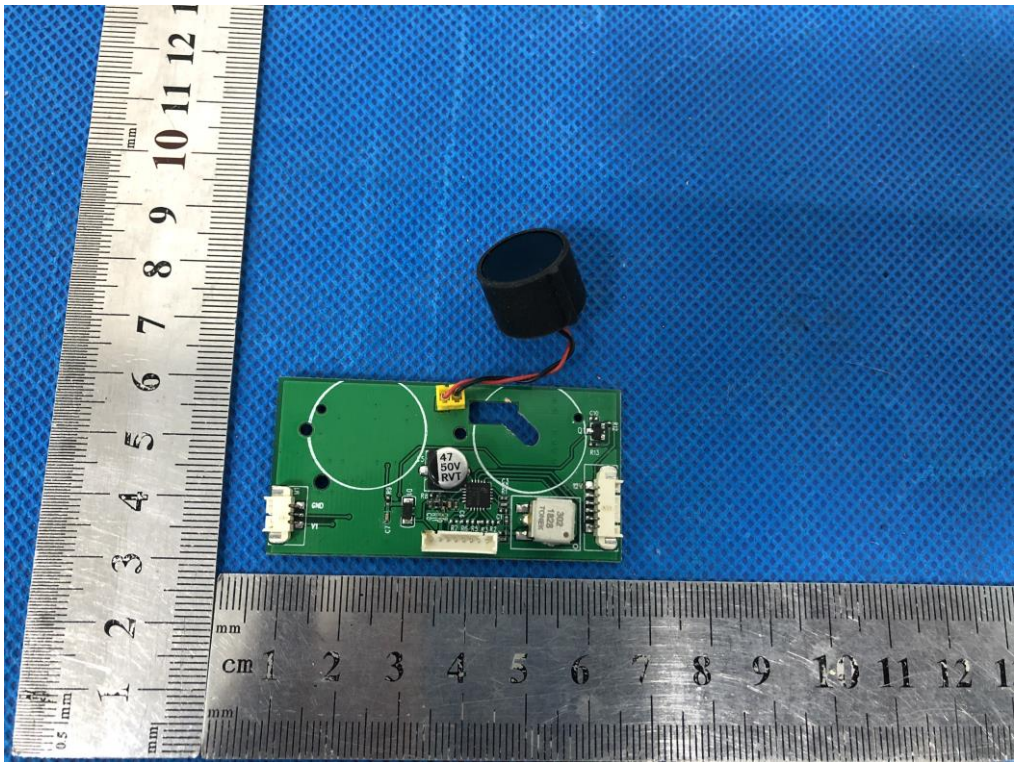


INTERNAL VIEW OF EUT-5

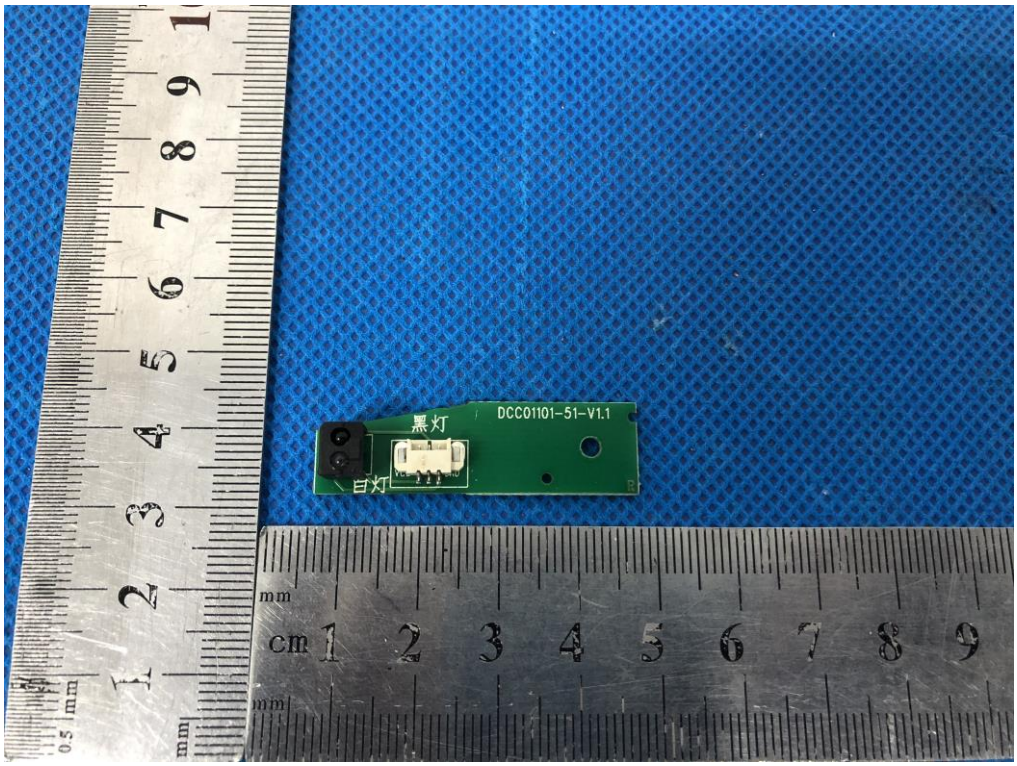


INTERNAL VIEW OF EUT-6

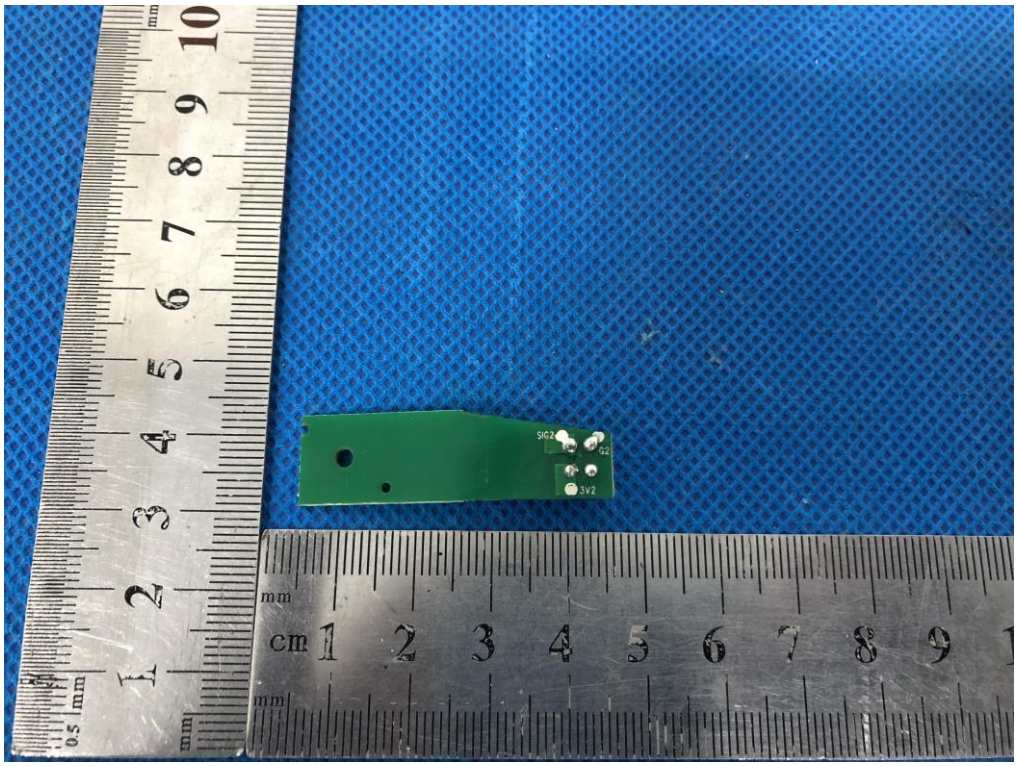
INTERNAL VIEW OF EUT-7



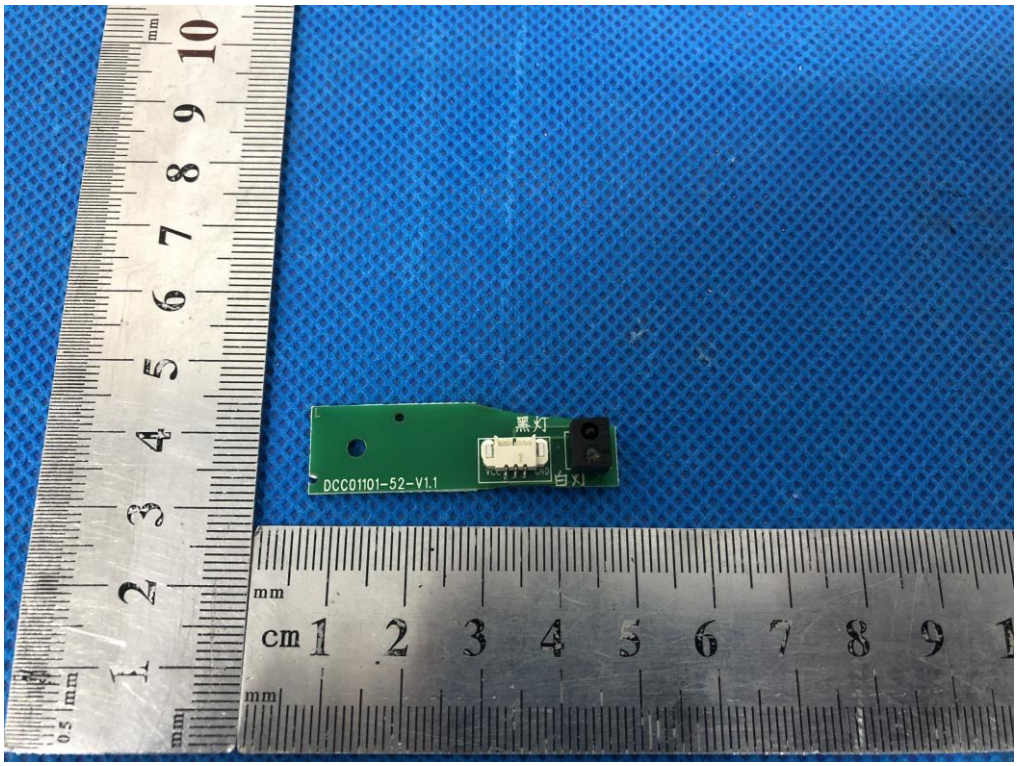
INTERNAL VIEW OF EUT-8



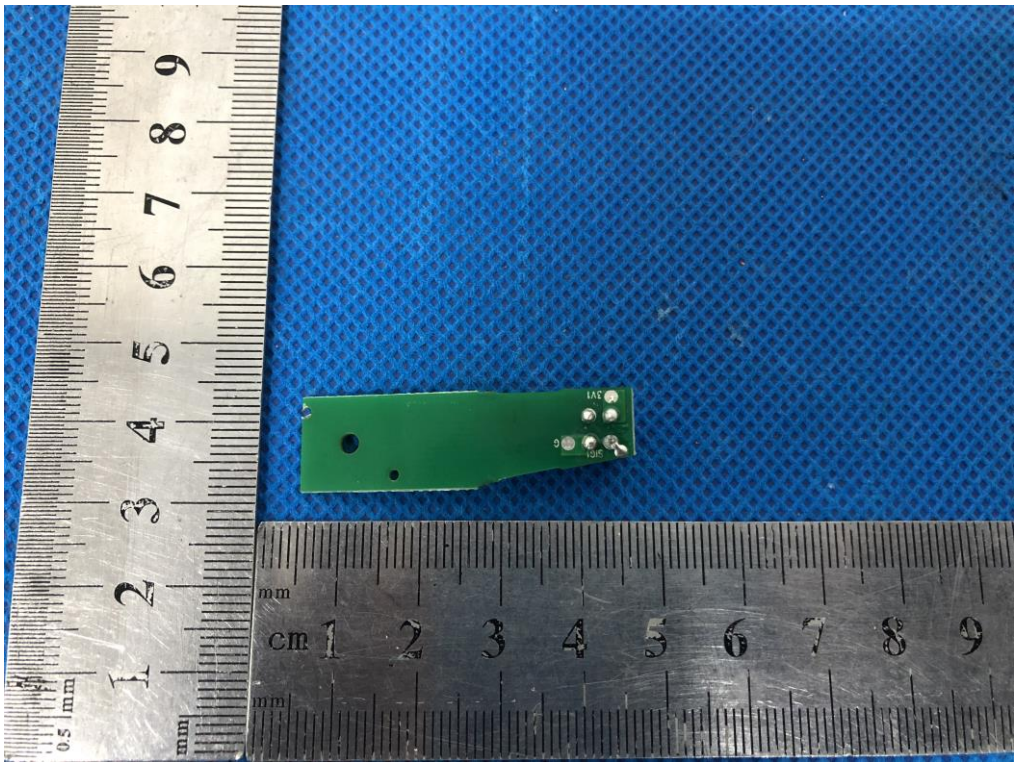
INTERNAL VIEW OF EUT-9



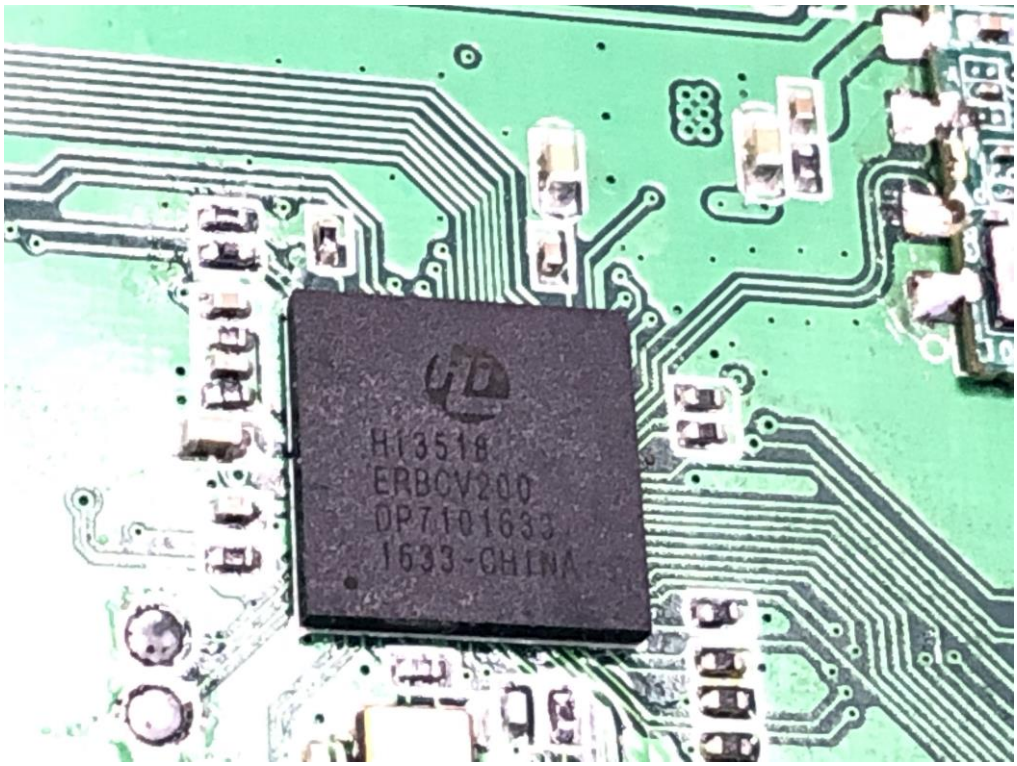
INTERNAL VIEW OF EUT-10



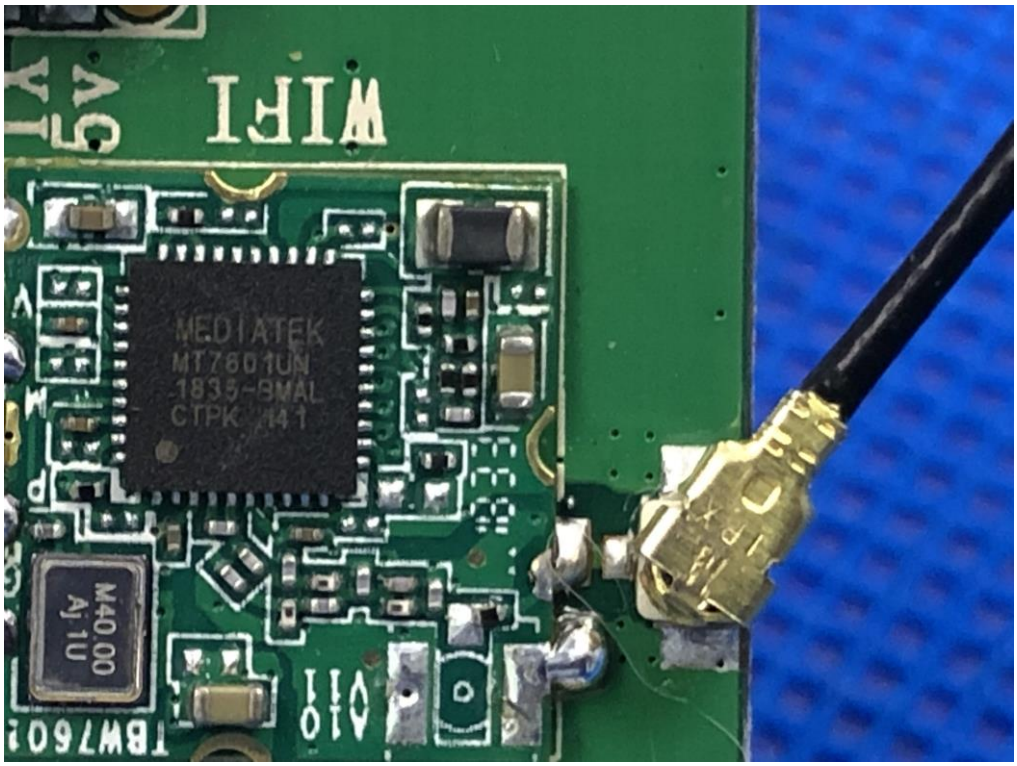
INTERNAL VIEW OF EUT-11



INTERNAL VIEW OF EUT-12



INTERNAL VIEW OF EUT-13



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