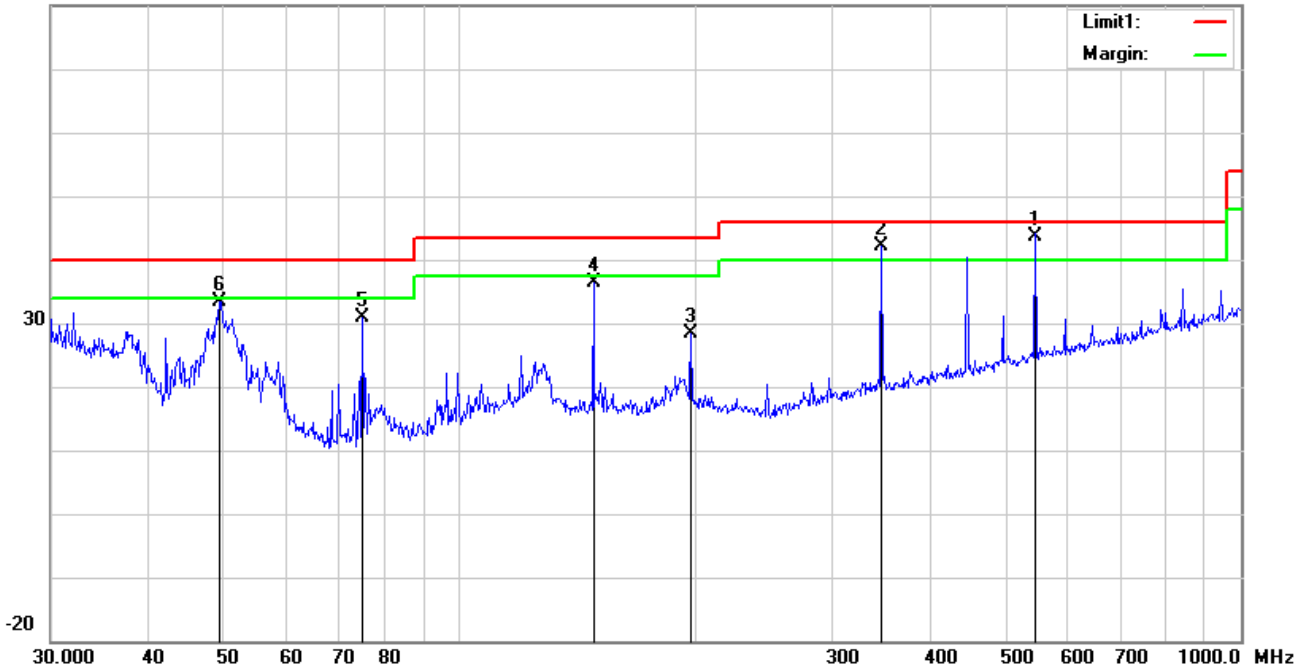


30MHz -1GHz

80.0 dBuV/m



Test Data

Horizontal Polarity Plot @3m

N o.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detect or	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	V	545.1826	44.43	QP	18.33	21.71	2.47	43.52	46.00	-2.48	100	149
2	V	346.8092	47.62	QP	14.58	22.16	2.02	42.06	46.00	-3.94	100	214
3	V	197.8928	37.20	peak	11.98	22.37	1.54	28.35	43.50	-15.15	100	34
4	V	148.4410	44.76	peak	12.60	22.35	1.33	36.34	43.50	-7.16	100	341
5	V	75.1823	44.68	peak	7.70	22.40	0.96	30.94	40.00	-9.06	100	214
6	V	49.3594	46.39	QP	8.68	22.37	0.79	33.49	40.00	-6.51	100	9

Above 1GHz

Test Mode:	Transmitting Mode
-------------------	--------------------------

Frequency (MHz)	Meter Reading (dBμV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector (PK/AV)	Polarity (H/V)
Low Channel:802.11b(Worst Case)-2412MHz									
2390	41.02	28.72	3.36	26.32	46.78	74.00	-27.22	peak	Vertical
4825	30.98	32.94	3.98	27.49	40.41	54.00	-13.59	Average	Vertical
4825	41.99	32.94	3.98	27.49	51.42	74.00	-22.58	peak	Vertical
7238	31.68	25.28	5.51	27.94	34.53	54.00	-19.47	Average	Vertical
7238	42.05	25.28	5.51	27.94	44.90	74.00	-29.10	peak	Vertical
2390	41.32	28.72	3.36	26.32	47.08	74.00	-26.92	peak	Horizontal
4825	31.25	32.94	3.98	27.49	40.68	54.00	-13.32	Average	Horizontal
4825	42.25	32.94	3.98	27.49	51.68	74.00	-22.32	peak	Horizontal
7238	31.62	25.28	5.51	27.94	34.47	54.00	-19.53	Average	Horizontal
7238	41.08	25.28	5.51	27.94	43.93	74.00	-30.07	peak	Horizontal
Middle Channel:802.11b(Worst Case)-2437MHz									
4877	31.98	32.11	4.04	27.53	40.60	54.00	-13.40	Average	Vertical
4877	41.92	32.11	4.04	27.53	50.54	74.00	-23.46	peak	Vertical
7312	31.02	24.33	5.58	27.96	32.97	54.00	-21.03	Average	Vertical
7312	41.98	24.33	5.58	27.96	43.93	74.00	-30.07	peak	Vertical
4877	31.84	32.11	4.04	27.53	40.46	54.00	-13.54	Average	Horizontal
4877	41.99	32.11	4.04	27.53	50.61	74.00	-23.39	peak	Horizontal
7312	31.21	24.33	5.58	27.96	33.16	54.00	-20.84	Average	Horizontal
7312	41.25	24.33	5.58	27.96	43.20	74.00	-30.80	peak	Horizontal
High Channel:802.11b(Worst Case)-2462MHz									
2483.5	41.21	28.79	3.48	26.34	47.14	74.00	-26.86	peak	Vertical
4925	31.89	31.32	4.12	27.58	39.75	54.00	-14.25	Average	Vertical
4925	41.25	31.32	4.12	27.58	49.11	74.00	-24.89	peak	Vertical
7387	31.56	24.38	5.68	27.99	33.63	54.00	-20.37	Average	Vertical
7387	41.41	24.38	5.68	27.99	43.48	74.00	-30.52	peak	Vertical
2483.5	41.02	28.79	3.48	26.34	46.95	74.00	-27.05	peak	Horizontal
4925	31.12	31.32	4.12	27.58	38.98	54.00	-15.02	Average	Horizontal
4925	42.54	31.32	4.12	27.58	50.40	74.00	-23.60	peak	Horizontal
7387	31.87	24.38	5.68	27.99	33.94	54.00	-20.06	Average	Horizontal
7387	41.98	24.38	5.68	27.99	44.05	74.00	-29.95	peak	Horizontal

NOTE:1.Absolute Level= ReadingLevel+antenna Factor+cable loss-preamp factor.

Note:

- 1, The testing has been conformed to 10*2462MHz=24,620MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

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4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/23/2017	09/22/2018	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	<input checked="" type="checkbox"/>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/12/2017	10/11/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>

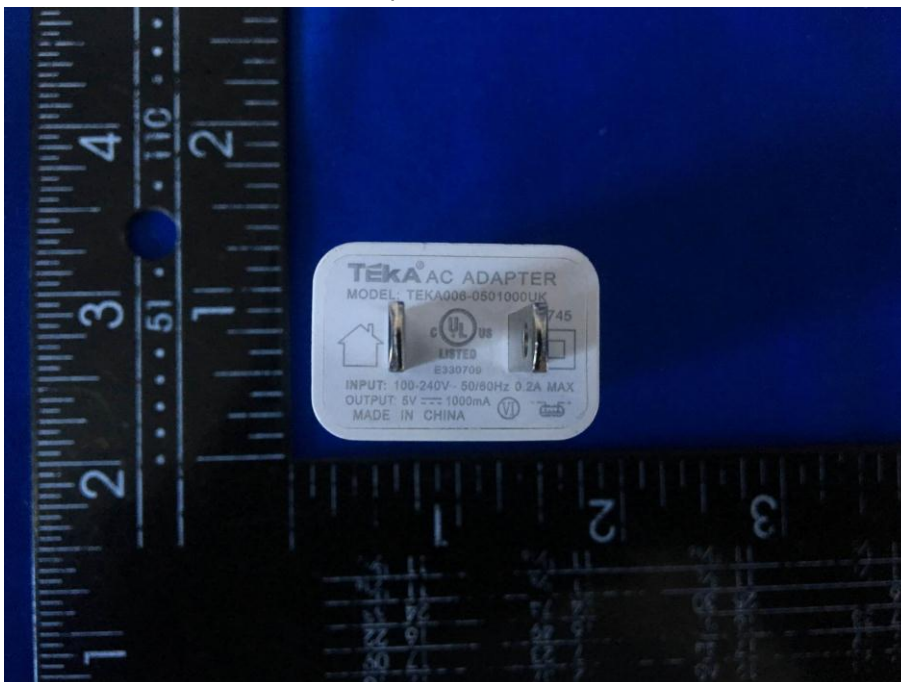
Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

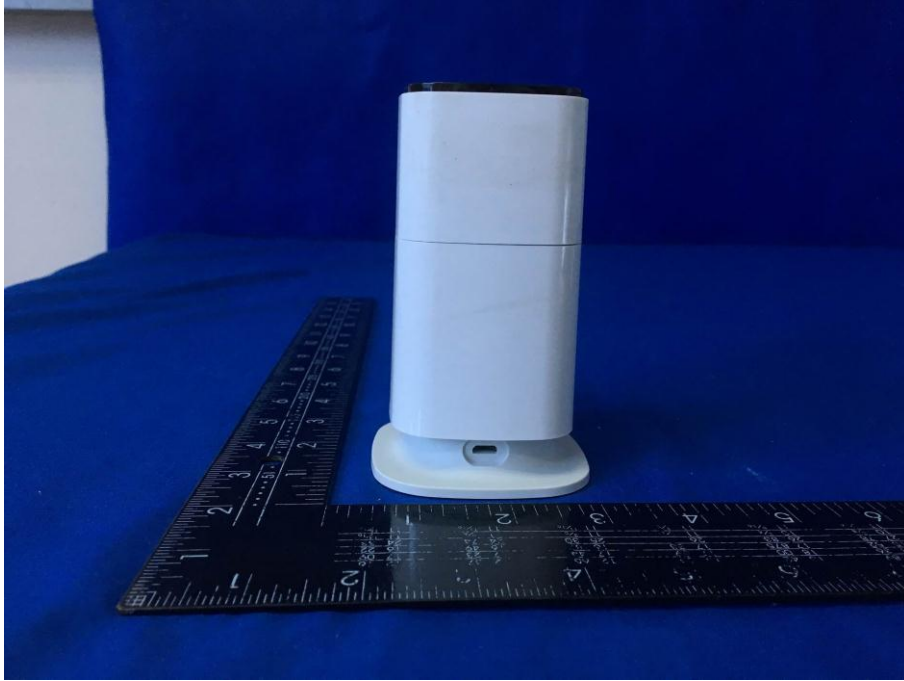
Whole Package View



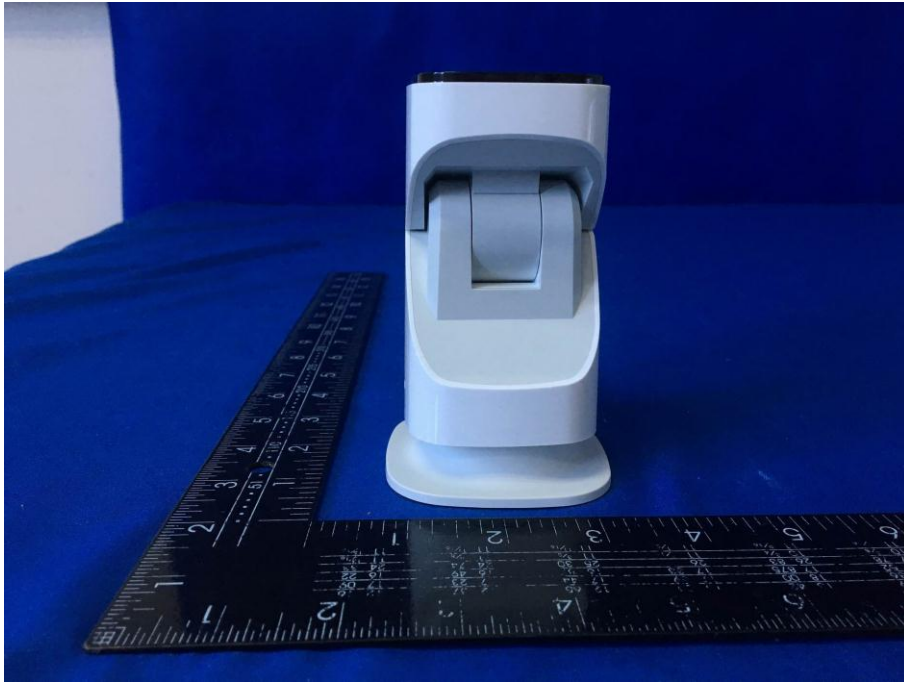
Adapter Label View



EUT - Front View



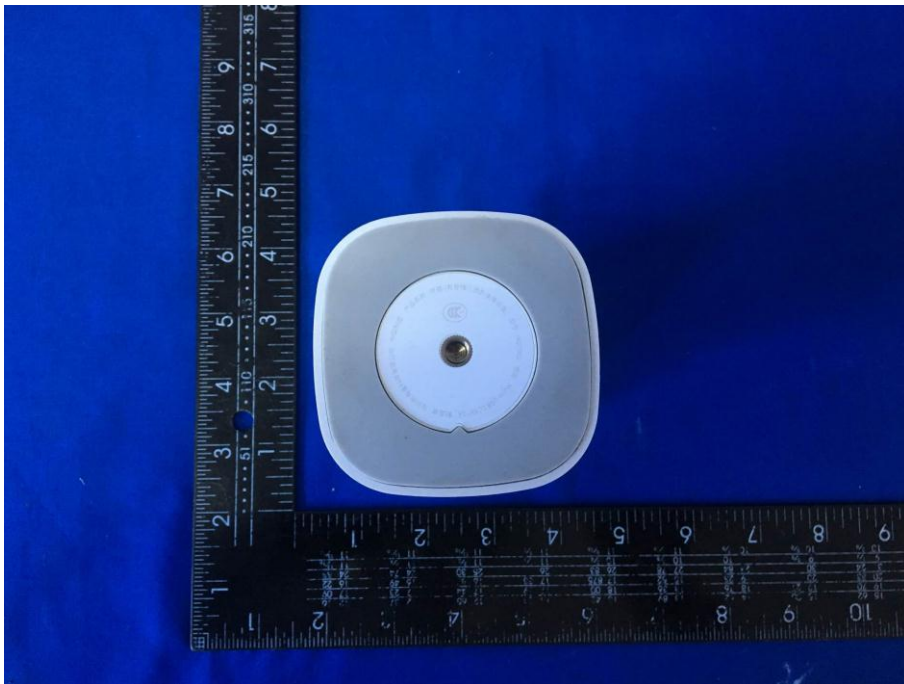
EUT - Rear View



EUT - Top View



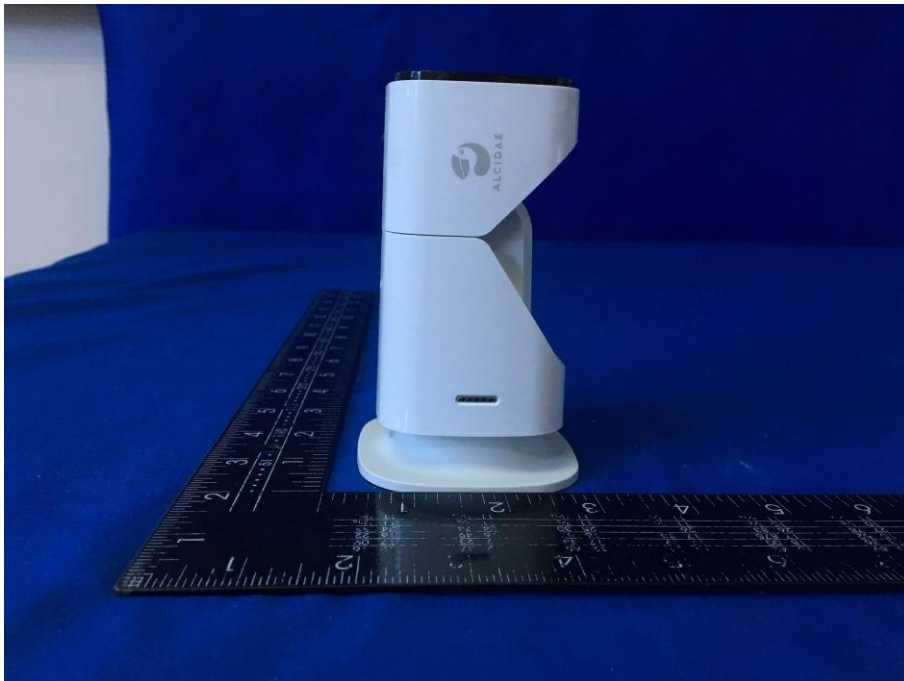
EUT - Bottom View



EUT - Left View

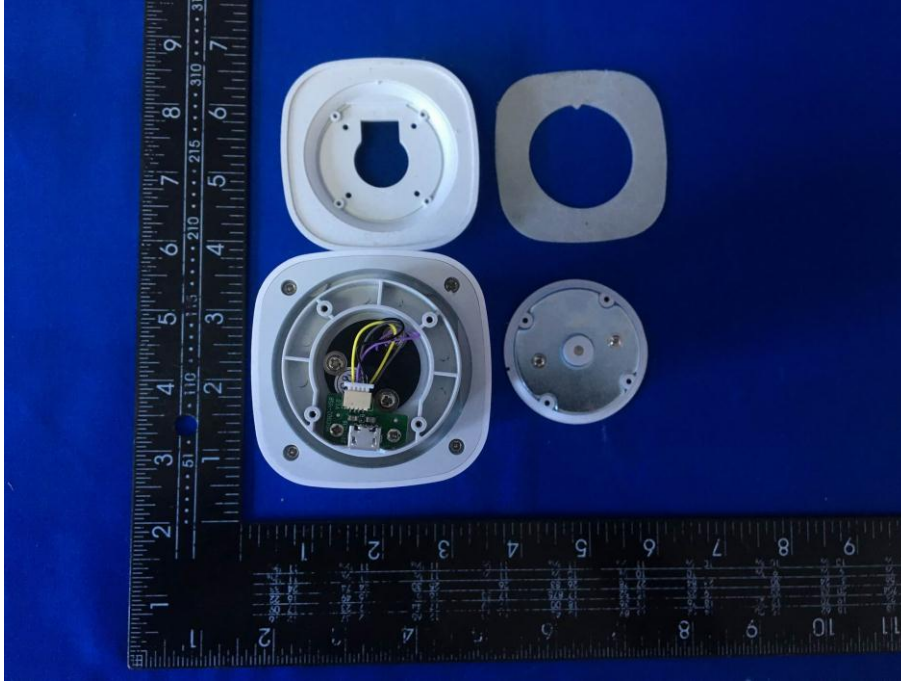


EUT - Right View

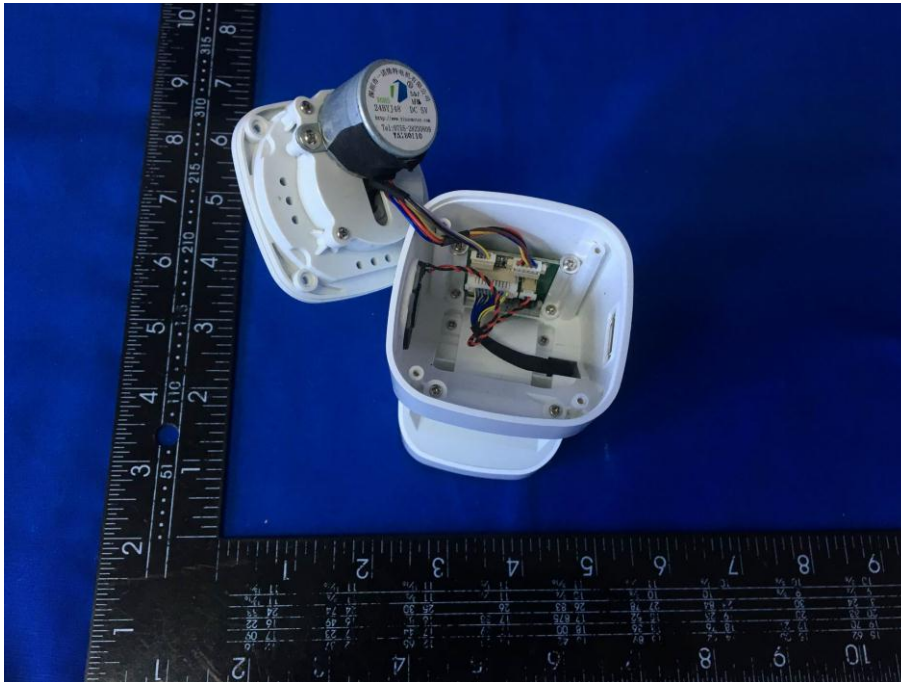


Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



Cover Off - Top View 2



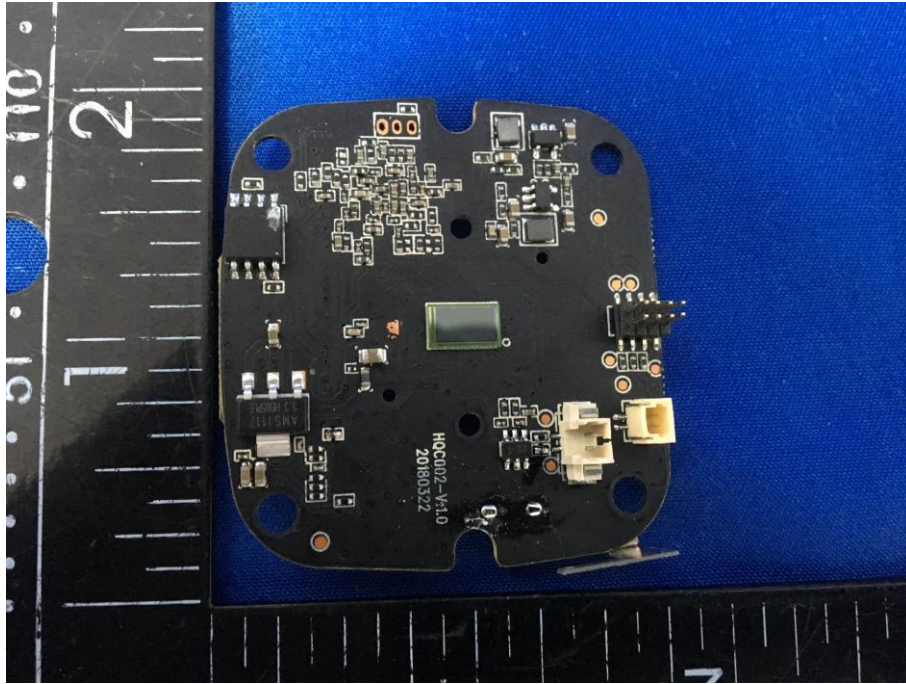
Motor - Front View



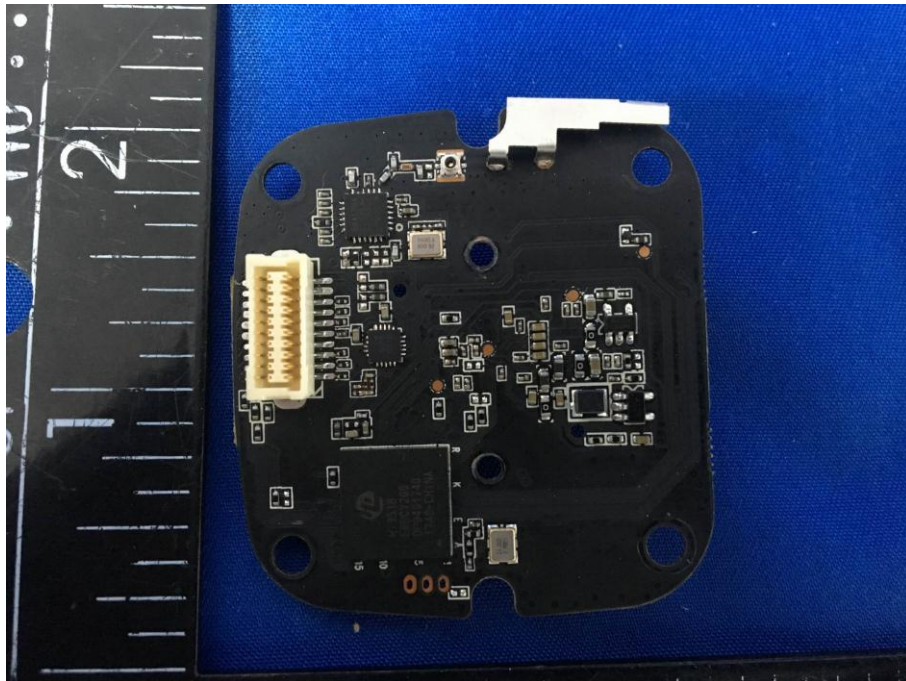
Motor - Rear View



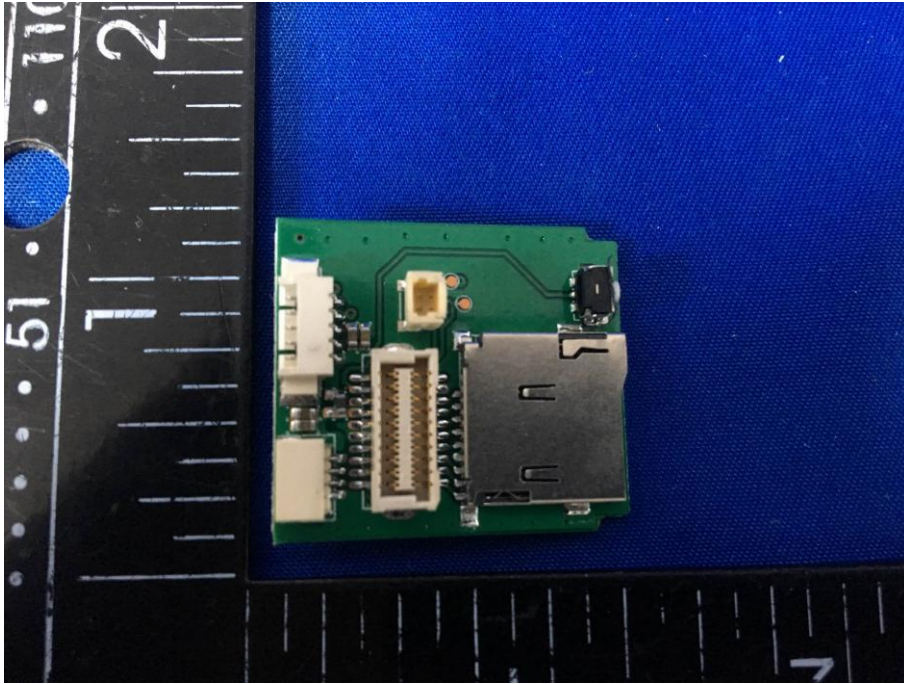
Main board - Front View



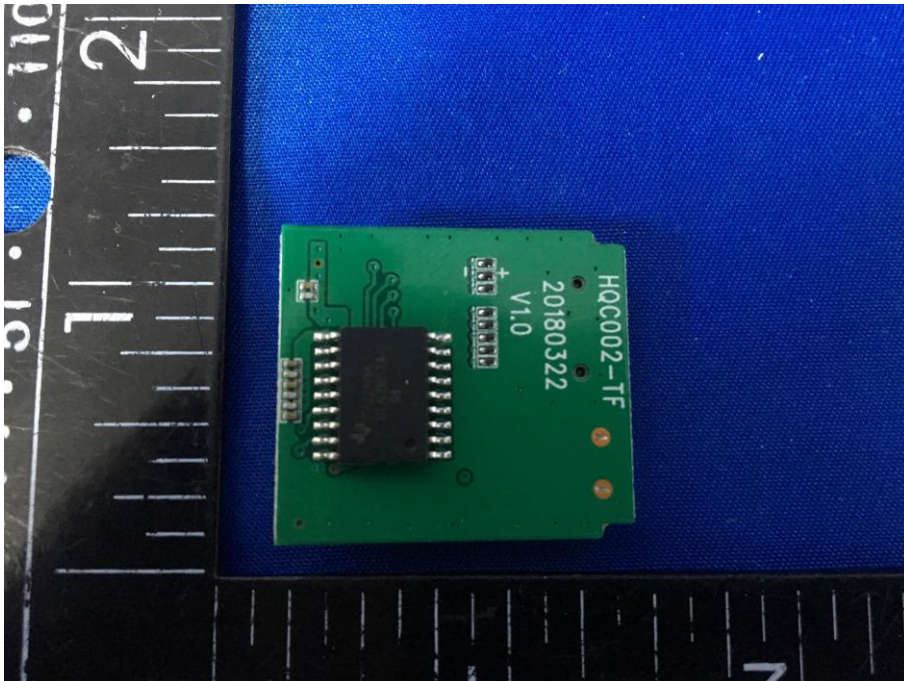
Main board - Rear View



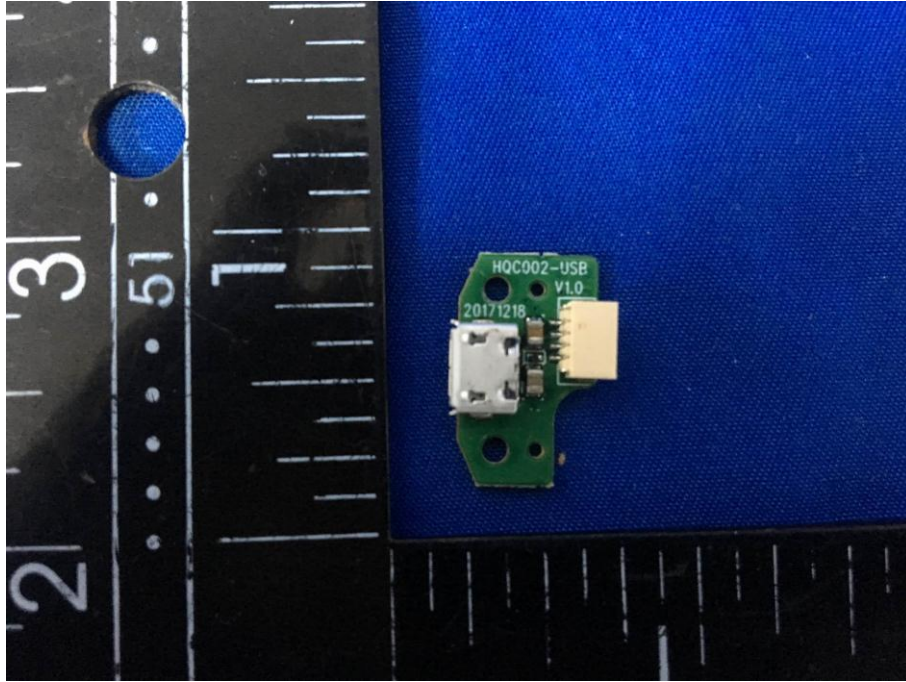
TF Card board - Front View



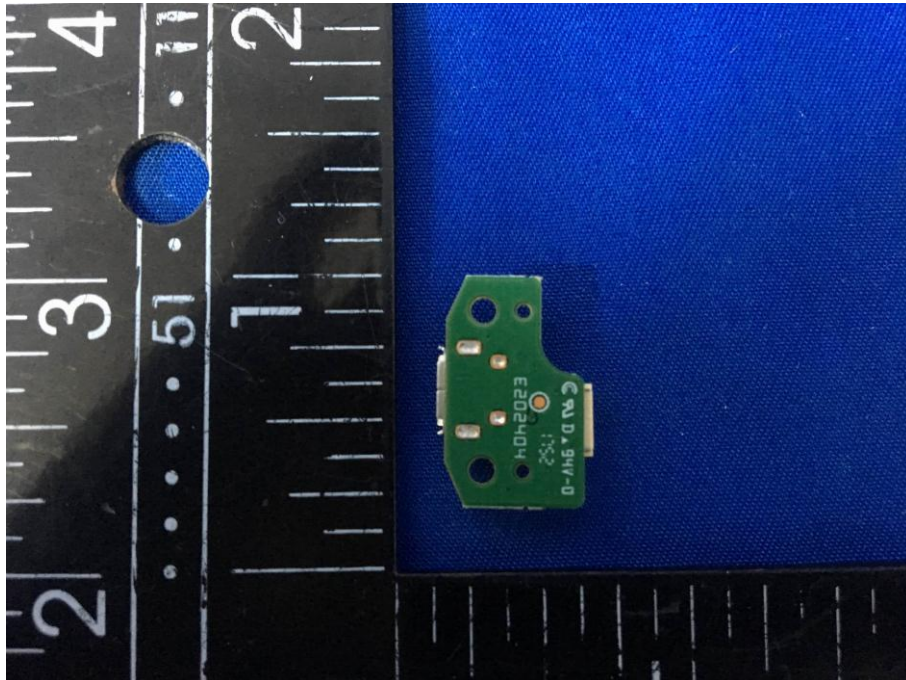
TF Card board – Rear View



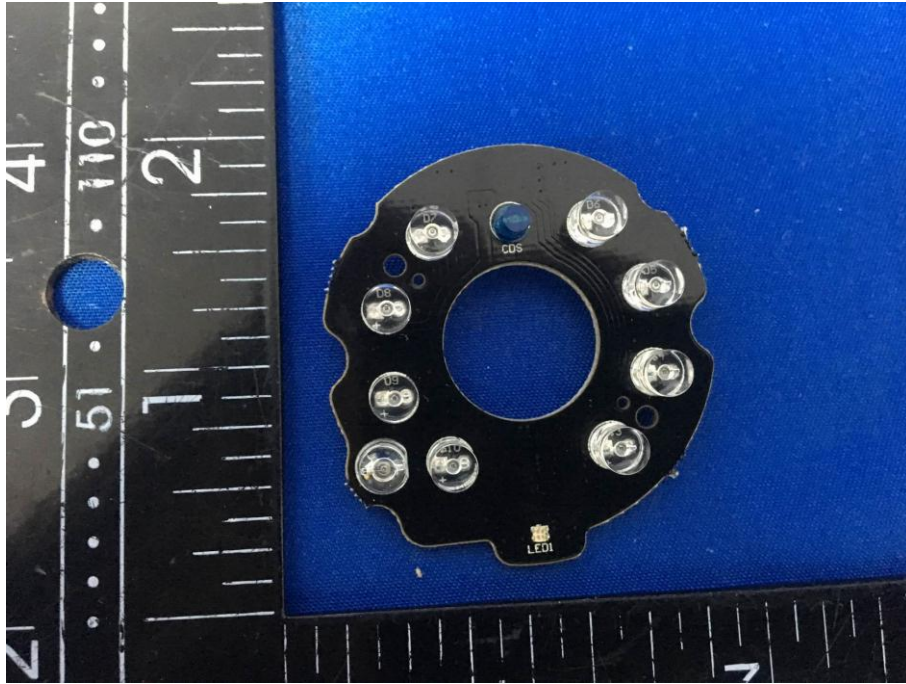
USB board – Front View



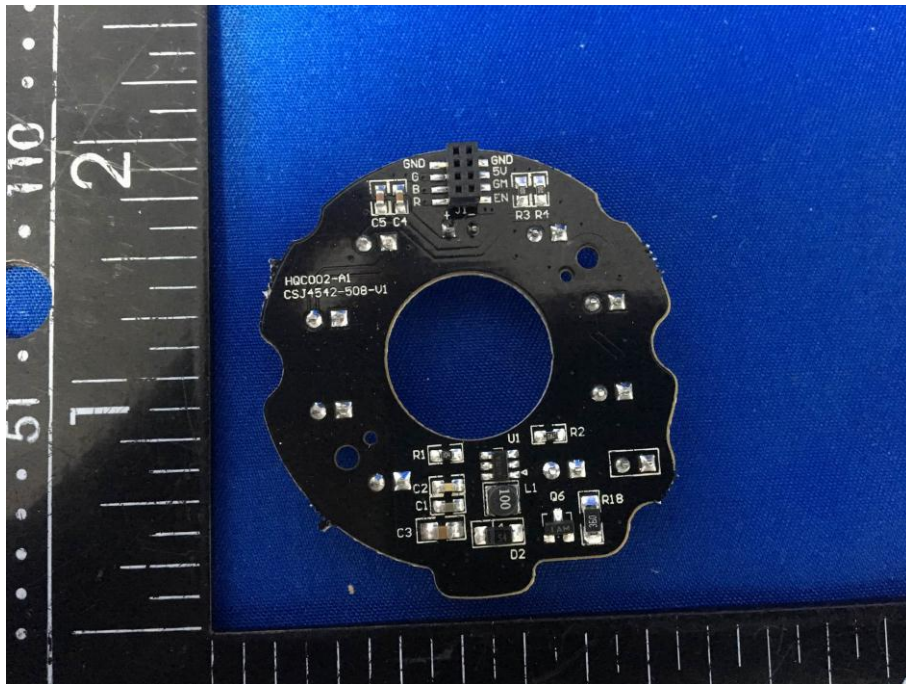
USB board – Rear View



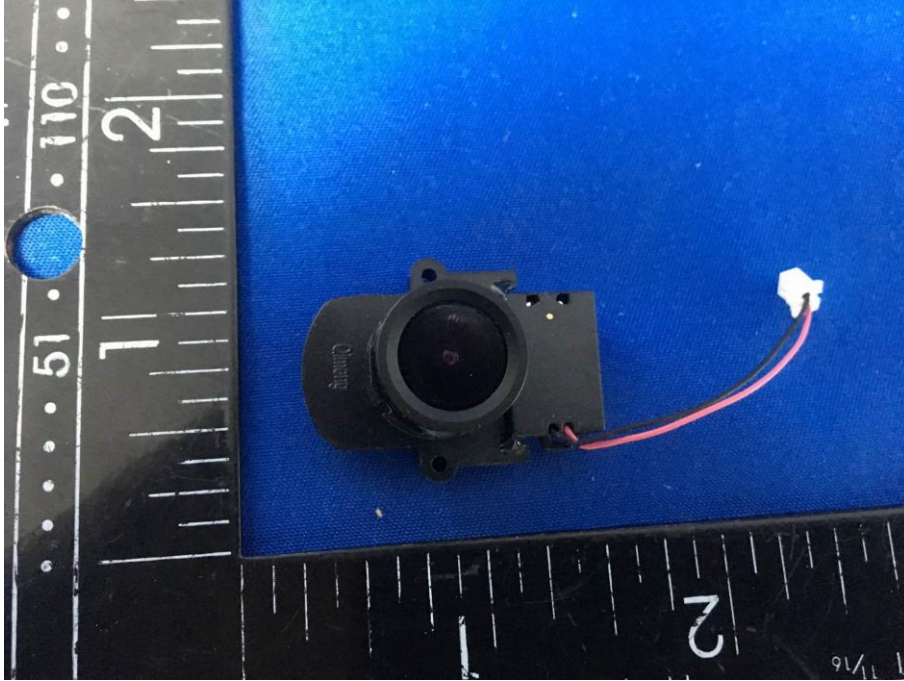
LED – Front View



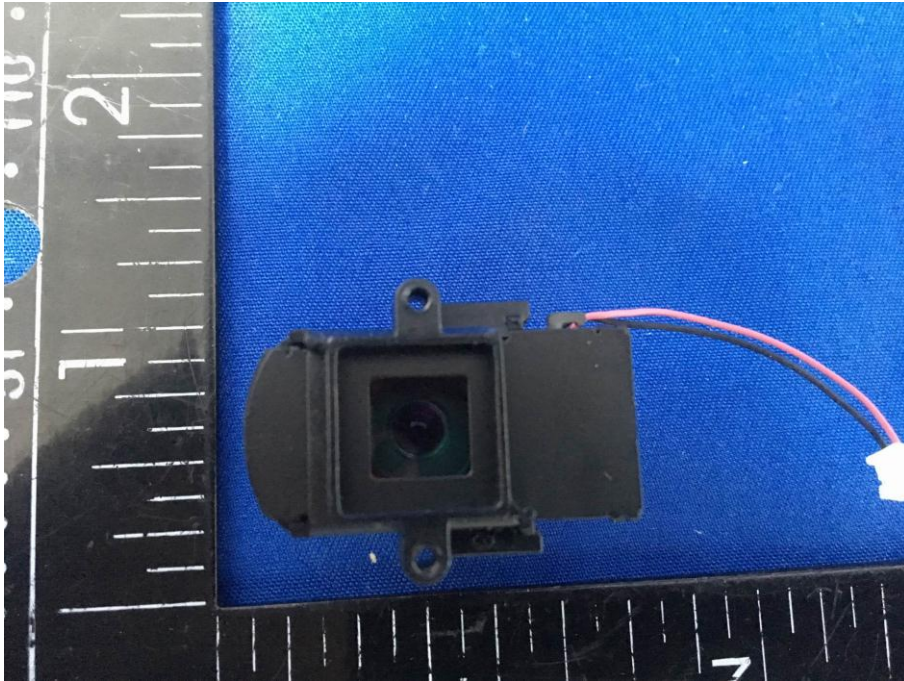
LCD – Rear View



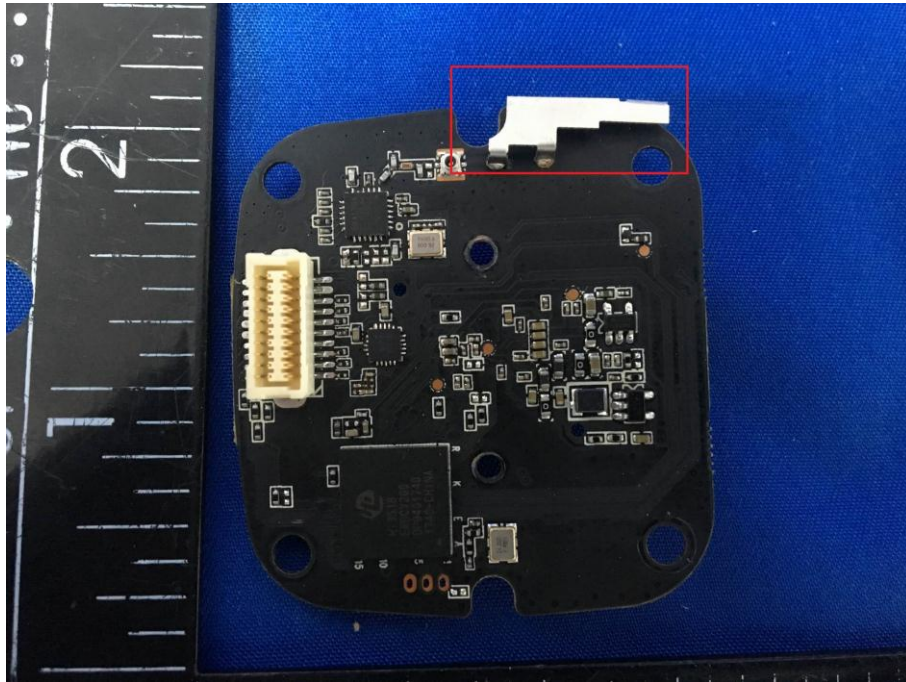
Camera- Front View



Camera- Rear View



Antenna View



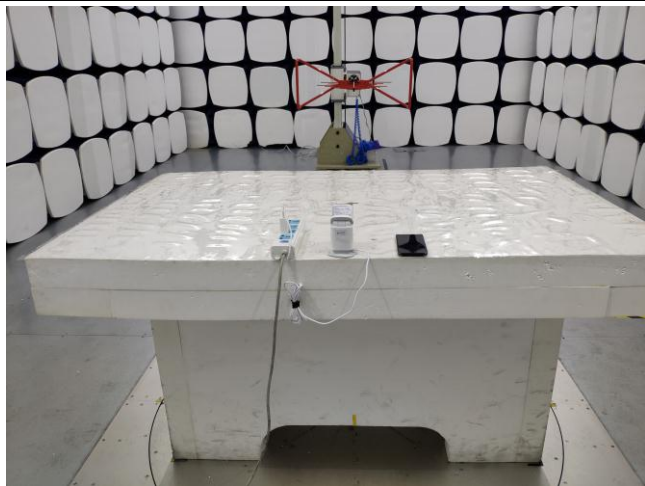
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

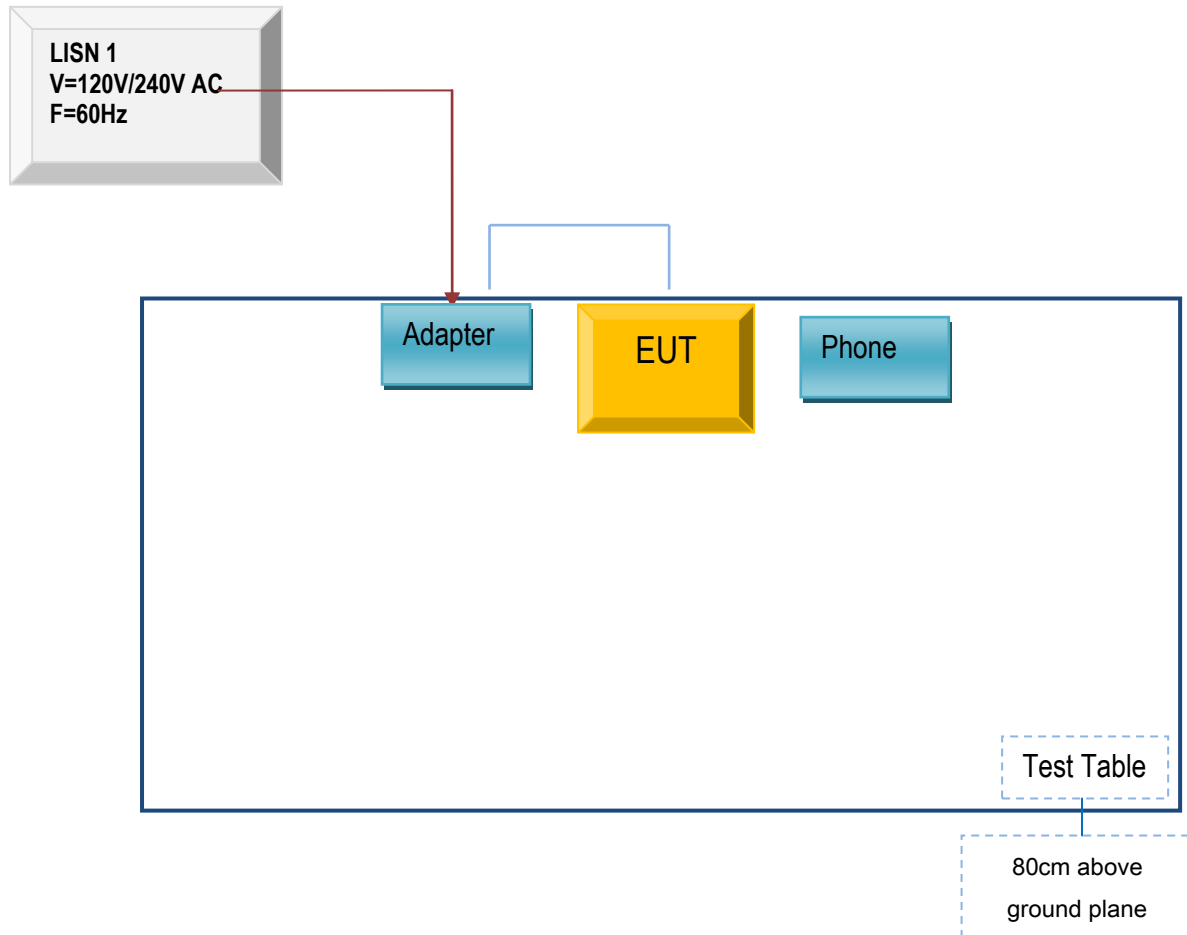


Radiated Spurious Emissions Test Setup Above
1GHz

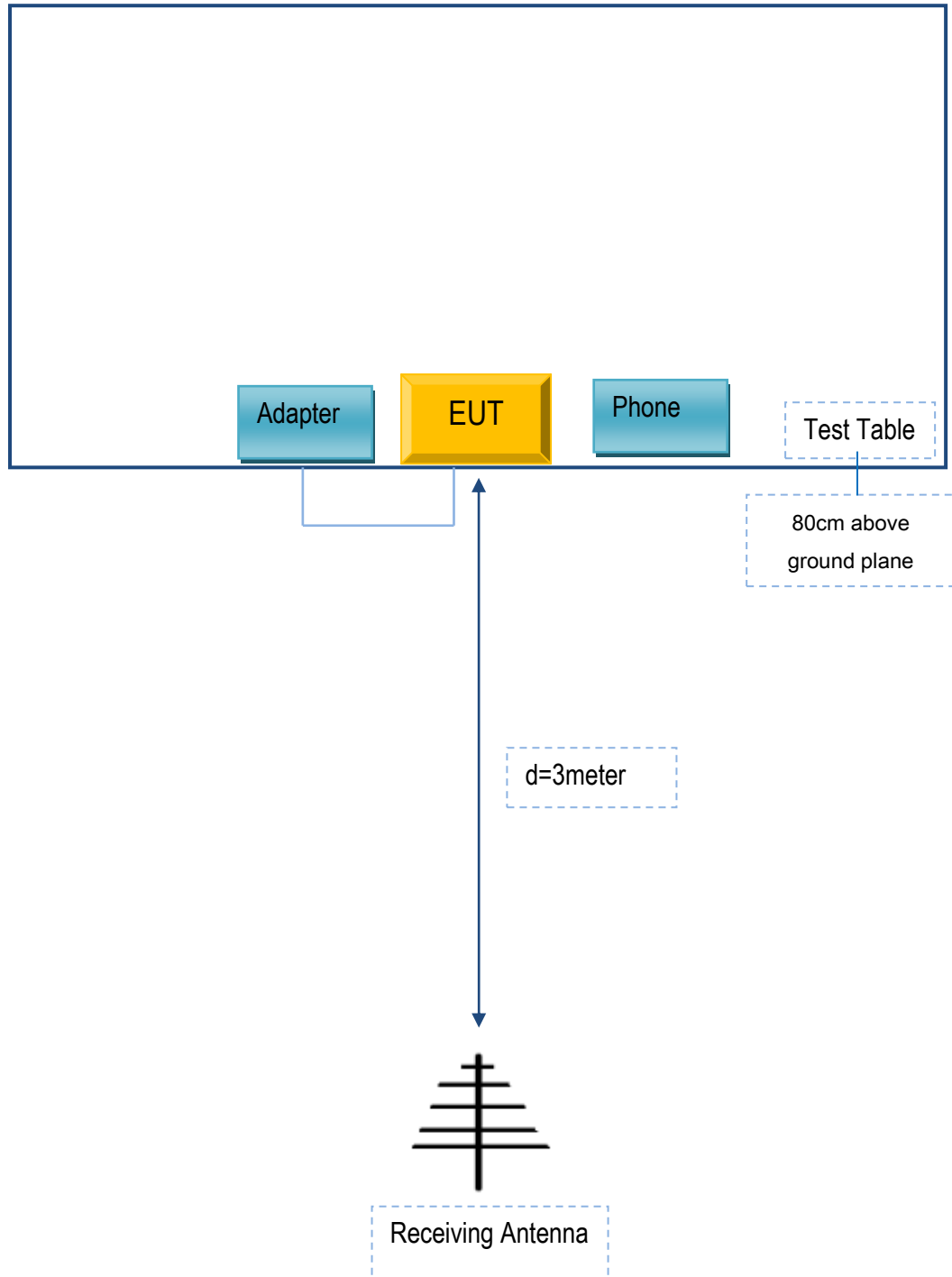
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

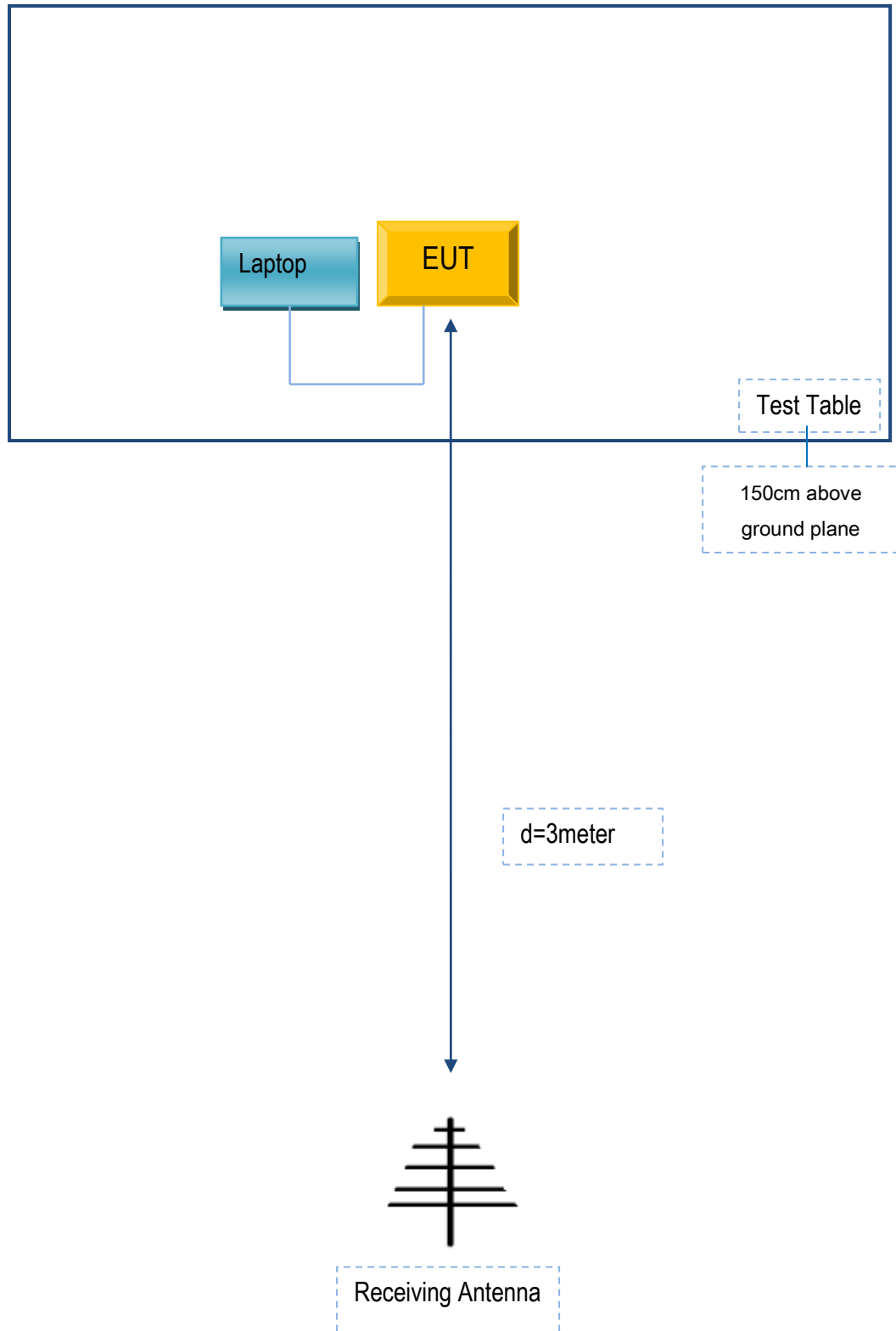
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions (Below 1GHz) .



Block Configuration Diagram for Radiated Emissions (Above 1GHz) .



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Alcidae Inc.	Adapter	TEKA006-0501000UK	N/A
Apple	Phone	5S	N/A
Lenovo	Laptop	E40	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

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Annex E. DECLARATION OF SIMILARITY

Alcidae Inc.

Model Difference

FCC ID: **2AOJSALCIDAEH1**

Model : H1, H1 Pro, H1 Puls, HQC002

All the models are the same circuit and RF module, except the model names, different colors and appearance.

Sincerely,



Client's signature

Client's name / title : Andy Du / Manager

Contact information / address : Room 809, Building A4, Science park, No. 15, Keyuan Road, Nanshan District ShenZhen China