

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2480.560	53.53	-10.89	42.64	74.00	-31.36	peak
2		2483.500	46.52	-10.88	35.64	74.00	-38.36	peak
3		2497.120	51.18	-10.88	40.30	74.00	-33.70	peak
4		2504.650	51.37	-10.89	40.48	74.00	-33.52	peak
5	*	2522.100	53.58	-10.87	42.71	74.00	-31.29	peak
6		2535.270	51.20	-10.87	40.33	74.00	-33.67	peak



3.8. Spurious Emission (Radiated)

Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Field Strength (microvolt/meter)	Measurement Distance (meters)
2400/F(KHz)	300
24000/F(KHz)	30
30	30
100	3
150	3
200	3
500	3
	(microvolt/meter) 2400/F(KHz) 24000/F(KHz) 30 100 150 200

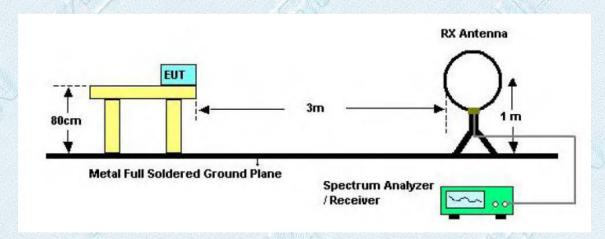
Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Mete	rs(at 3m)
(MHz)	Peak	Average
Above 1000	74	54

Note:

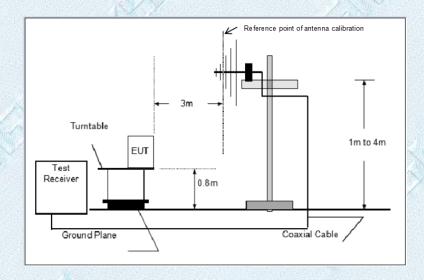
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration

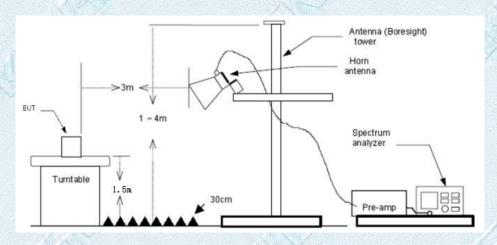


Below 30MHz Test Setup





Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=1MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz RMS detector for Average value.

KSIGN(Guangdong) Testing Co., Ltd.



Test Mode

Please refer to the clause 2.3.

Test Result

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

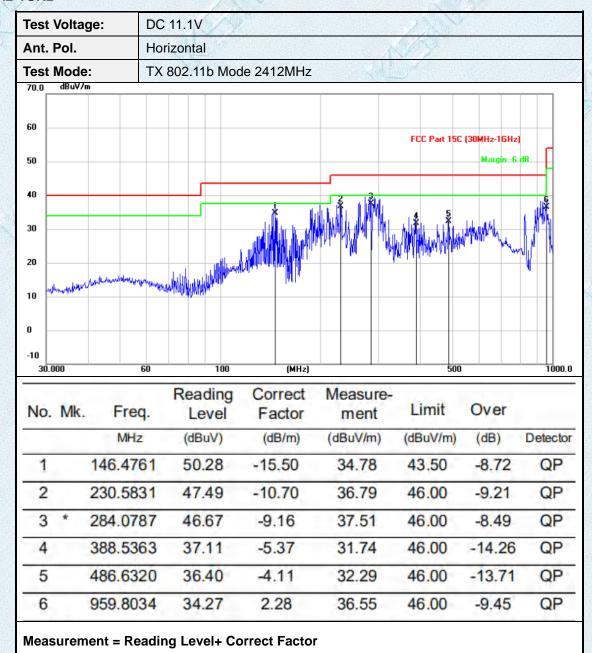
Note:

- Measurement = Reading level + Correct Factor
 Correct Factor=Antenna Factor + Cable Loss Preamplifier Factor
- 2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5) Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation 2412MHz which it is worse case for 30MHz-1GHz, so only show the test data for worse case.
- 6) Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation which it is worse case for above 1GHz, so only show the test data for worse case.

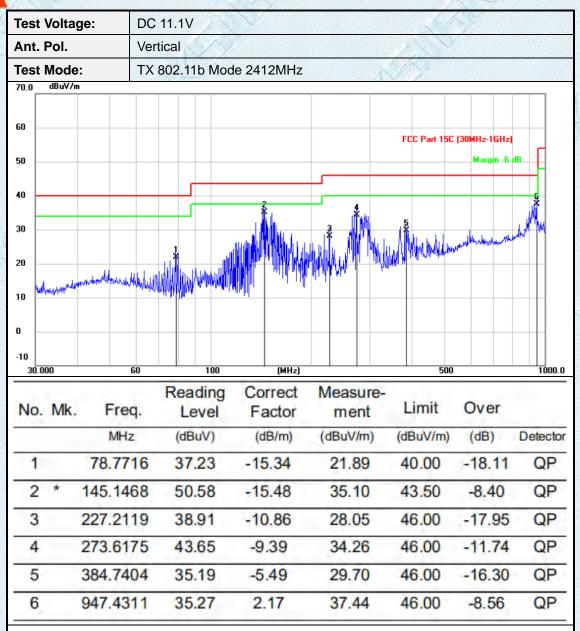
BELOW 30MHZ

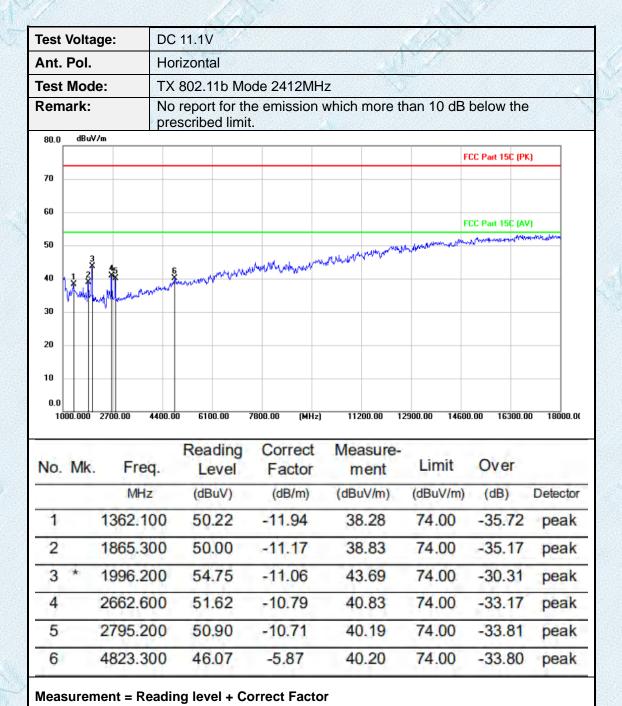
No emission found between lowest internal used/generated frequencies to 30MHz.













Test Voltage:	DC 11.1V	
Ant. Pol.	Vertical Vertical	N.N.
Test Mode:	TX 802.11b Mode 2412MHz	9
Remark:	No report for the emission which more than 1 prescribed limit.	0 dB below the
80.0 dBuV/m		FCC Part 15C (PK)
70		
60		FCC D-4 1FC (AVA
50 3		FCC Part 15C (AV)
30	Control of the state of the sta	
20		
10		
0.0		

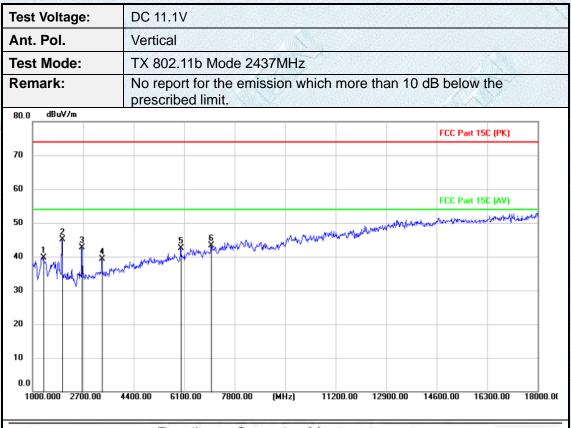
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1433.500	51.52	-11.86	39.66	74.00	-34.34	peak
2		1702.100	51.21	-11.41	39.80	74.00	-34.20	peak
3	*	1999.600	58.50	-11.06	47.44	74.00	-26.56	peak
4		2660.900	55.99	-10.79	45.20	74.00	-28.80	peak
5		2798.600	52.80	-10.71	42.09	74.00	-31.91	peak
6		3728.500	50.98	-9.12	41.86	74.00	-32.14	peak



Tes	t Voltage:	DC 11.1	V							
Ant	t. Pol.	Horizor	ital		N/W					
Tes	t Mode:	TX 802	.11b Mode	Mode 2437MHz						
Rer	mark:		ort for the en	mission whi	ch more than	10 dB below the				
80.0	dBuV/m						1			
						FCC Part 15C (PK)				
70										
60										
						FCC Part 15C (AV)				
50					and interest placed again	markey to the same the same to				
40	13 3 55	Marked Market Company of the Company	particular properties that the	- Marie - war hard	ng ng ting ng mga ng					
30										
20										
10										
0.0	000.000 2700.00	4400.00 61	00.00 7800.0	O (MHz)	11200.00 12900.0	0 14600.00 16300.00 180				

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1056.100	53.35	-12.34	41.01	74.00	-32.99	peak
	1331.500	52.02	-11.94	40.08	74.00	-33.92	peak
	1865.300	52.64	-11.17	41.47	74.00	-32.53	peak
*	1996.200	53.97	-11.06	42.91	74.00	-31.09	peak
	2526.600	52.40	-10.86	41.54	74.00	-32.46	peak
	2664.300	52.11	-10.79	41.32	74.00	-32.68	peak
	*	MHz 1056.100 1331.500 1865.300 * 1996.200 2526.600	MHz (dBuV) 1056.100 53.35 1331.500 52.02 1865.300 52.64 * 1996.200 53.97 2526.600 52.40	MHz (dBuV) (dB/m) 1056.100 53.35 -12.34 1331.500 52.02 -11.94 1865.300 52.64 -11.17 * 1996.200 53.97 -11.06 2526.600 52.40 -10.86	MHz (dBuV) (dB/m) (dBuV/m) 1056.100 53.35 -12.34 41.01 1331.500 52.02 -11.94 40.08 1865.300 52.64 -11.17 41.47 * 1996.200 53.97 -11.06 42.91 2526.600 52.40 -10.86 41.54	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) 1056.100 53.35 -12.34 41.01 74.00 1331.500 52.02 -11.94 40.08 74.00 1865.300 52.64 -11.17 41.47 74.00 * 1996.200 53.97 -11.06 42.91 74.00 2526.600 52.40 -10.86 41.54 74.00	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1056.100 53.35 -12.34 41.01 74.00 -32.99 1331.500 52.02 -11.94 40.08 74.00 -33.92 1865.300 52.64 -11.17 41.47 74.00 -32.53 * 1996.200 53.97 -11.06 42.91 74.00 -31.09 2526.600 52.40 -10.86 41.54 74.00 -32.46





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1360.400	51.61	-11.94	39.67	74.00	-34.33	peak
2	*	1999.600	56.20	-11.06	45.14	74.00	-28.86	peak
3		2657.500	53.48	-10.78	42.70	74.00	-31.30	peak
4		3330.700	49.23	-9.98	39.25	74.00	-34.75	peak
5		5987.800	46.36	-3.83	42.53	74.00	-31.47	peak
6		7016.300	44.01	-0.66	43.35	74.00	-30.65	peak



Tes	t Vol	tage	:	DC 1	1.1V	1											
Ant	. Po	l		Horiz	zonta	al											
Tes	t Mo	de:		TX 8	02.1	11b M	1ode	246	62MH	Z							
Rer	nark			No re				mis	ssion v	vhich	more	e tha	n 10	dB bel	ow t	he	
30.0	dBu	V/m															
														FCC Pa	art 15C	(PK)	
0																	-
0														FCC Pa	ut 150	(AVA	_
														A 00 -	بالمعتمد	beard make	n.Make
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10	000.000	270	0.00	400.00	6100	0.00	7800.	00	(MHz)	112	200.00	12900	0.00	14600.00	1630	00.00	18000.0

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1044.200	53.55	-12.36	41.19	74.00	-32.81	peak
2		1362.100	50.25	-11.94	38.31	74.00	-35.69	peak
3		1863.600	50.80	-11.18	39.62	74.00	-34.38	peak
4		1997.900	54.38	-11.06	43.32	74.00	-30.68	peak
5		2560.600	52.99	-10.85	42.14	74.00	-31.86	peak
6	*	8204.600	43.77	2.01	45.78	74.00	-28.22	peak



Test Voltage:	DC	11.1V			4/48		
Ant. Pol.	Ver	tical			187		
Test Mode:	TX	802.11b Mo	de 2462M	Hz			
Remark:		report for th scribed limit		n which more	than 10 dE	3 below the	е
80.0 dBuV/m							
70						FCC Part 15C (I	PKJ
60							
00						FCC Part 15C (/	AV)
						بالم مستورين	which languages
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10 10 10 10 10 10 10 10 10 10 10 10 10 1	00 4400.00	6100.00 7	Correct	z) 11200.00 Measure	12900.00 146	00.00 16300 Over	

IVIK.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
*	1860.200	54.54	-11.18	43.36	74.00	-30.64	peak
	1994.500	53.67	-11.07	42.60	74.00	-31.40	peak
	2506.200	50.60	-10.87	39.73	74.00	-34.27	peak
	2660.900	52.59	-10.79	41.80	74.00	-32.20	peak
	2790.100	53.38	-10.71	42.67	74.00	-31.33	peak
	3726.800	51.21	-9.12	42.09	74.00	-31.91	peak
		* 1860.200 1994.500 2506.200 2660.900 2790.100	MHz (dBuV) * 1860.200 54.54 1994.500 53.67 2506.200 50.60 2660.900 52.59 2790.100 53.38	MHz (dBuV) (dB/m) * 1860.200 54.54 -11.18 1994.500 53.67 -11.07 2506.200 50.60 -10.87 2660.900 52.59 -10.79 2790.100 53.38 -10.71	MHz (dBuV) (dB/m) (dBuV/m) * 1860.200 54.54 -11.18 43.36 1994.500 53.67 -11.07 42.60 2506.200 50.60 -10.87 39.73 2660.900 52.59 -10.79 41.80 2790.100 53.38 -10.71 42.67	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) * 1860.200 54.54 -11.18 43.36 74.00 1994.500 53.67 -11.07 42.60 74.00 2506.200 50.60 -10.87 39.73 74.00 2660.900 52.59 -10.79 41.80 74.00 2790.100 53.38 -10.71 42.67 74.00	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) * 1860.200 54.54 -11.18 43.36 74.00 -30.64 1994.500 53.67 -11.07 42.60 74.00 -31.40 2506.200 50.60 -10.87 39.73 74.00 -34.27 2660.900 52.59 -10.79 41.80 74.00 -32.20 2790.100 53.38 -10.71 42.67 74.00 -31.33

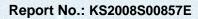


4.EUT TEST PHOTOS



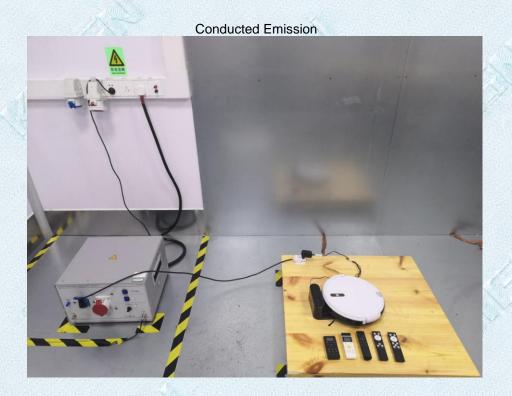
Radiated Emissions (Above 1GHz)







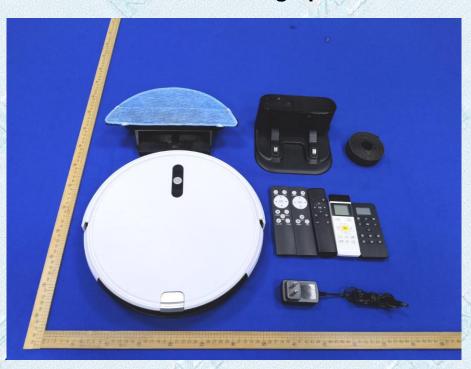






5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

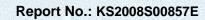
External Photographs



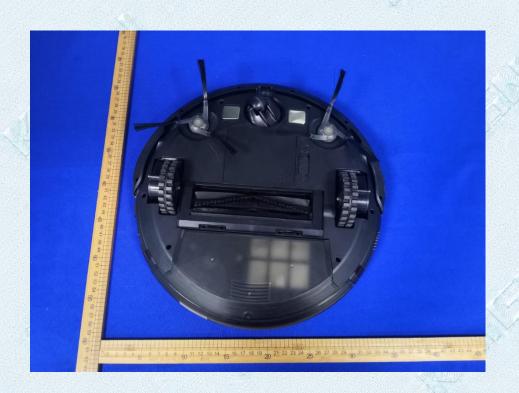


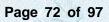






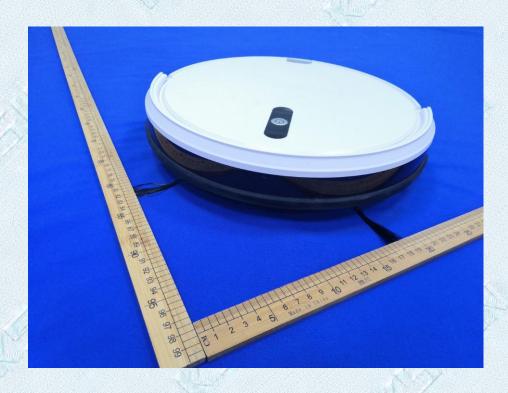




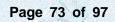


KSIGN®





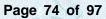


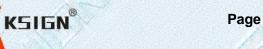
















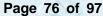






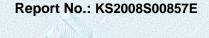






K516N[®]



















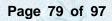






















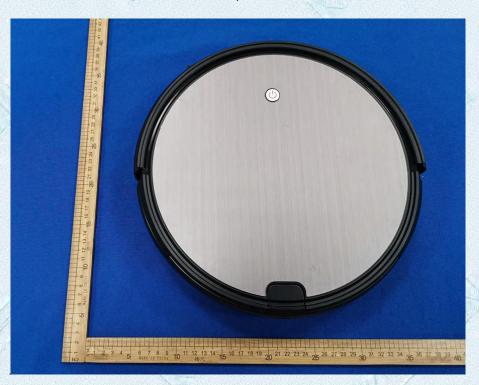


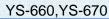






YS-640, YS-650



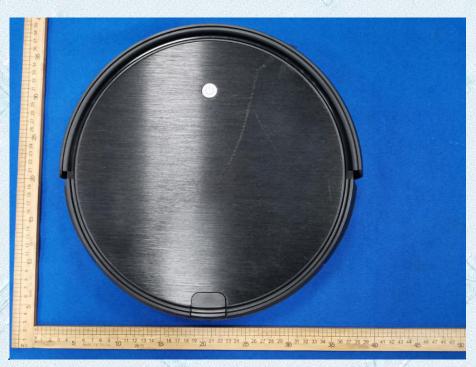


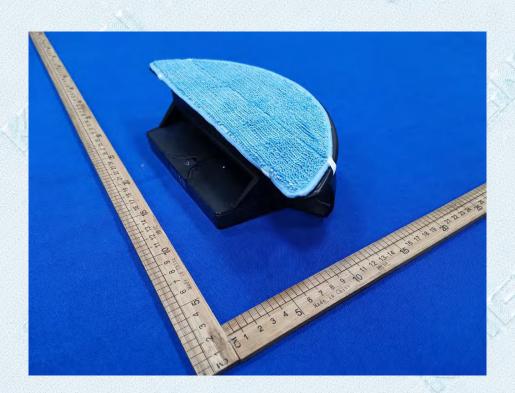






YS-680, YS-690









Internal Photographs







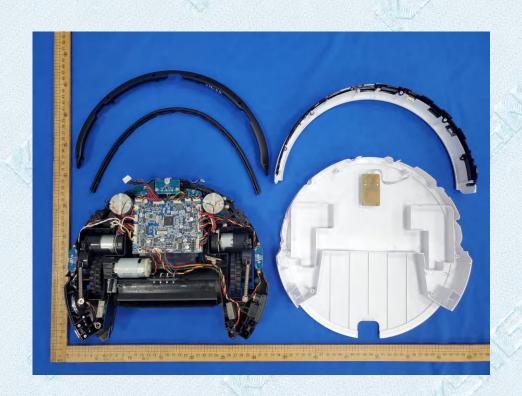






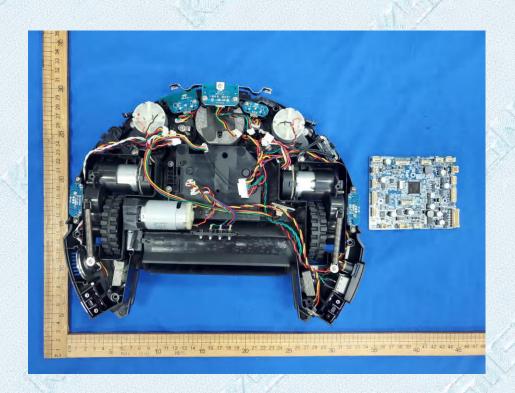




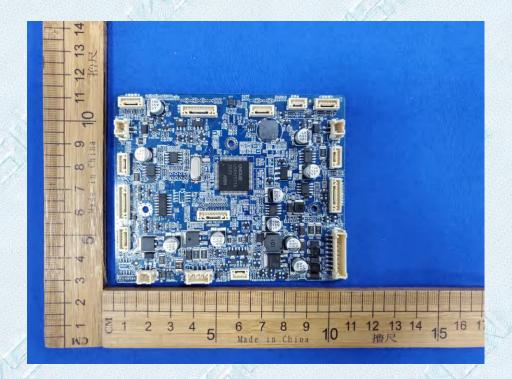


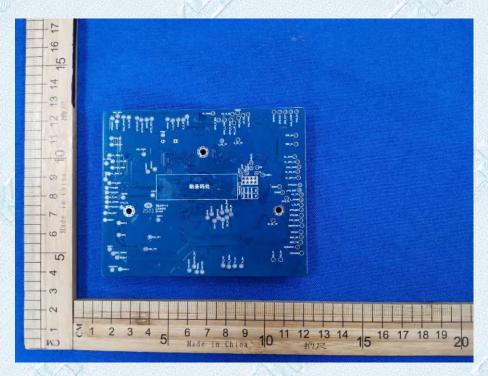


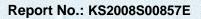






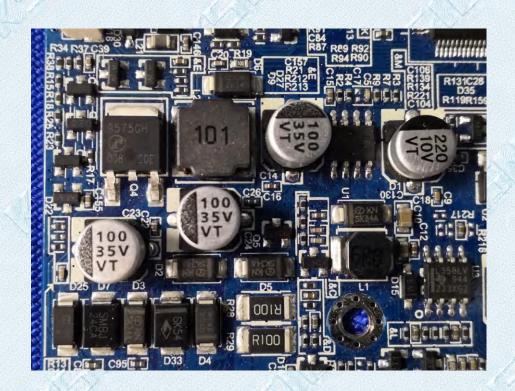
























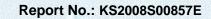


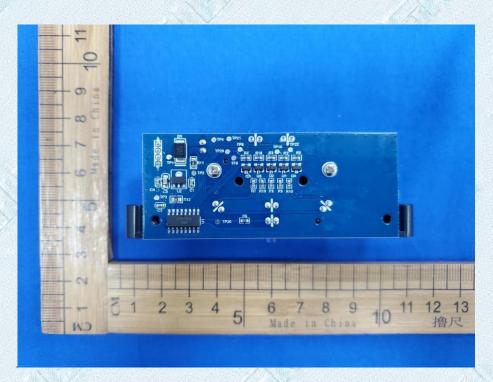














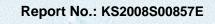








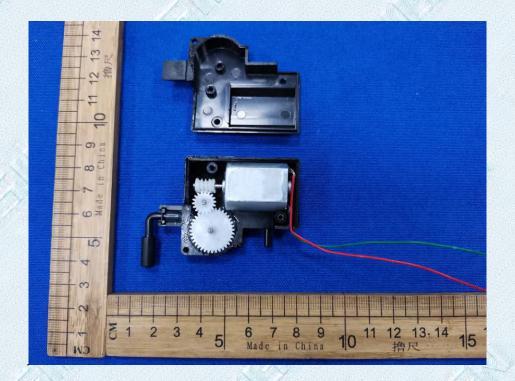






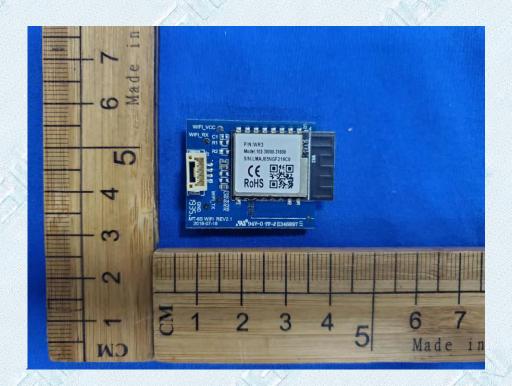


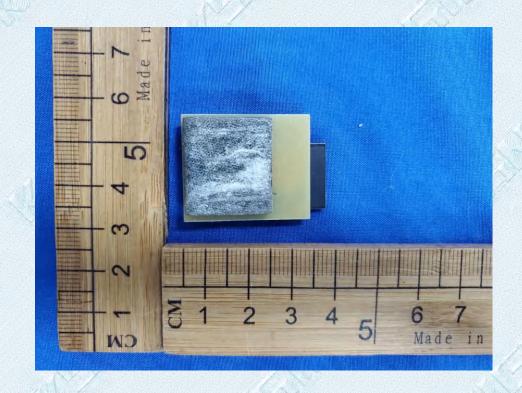












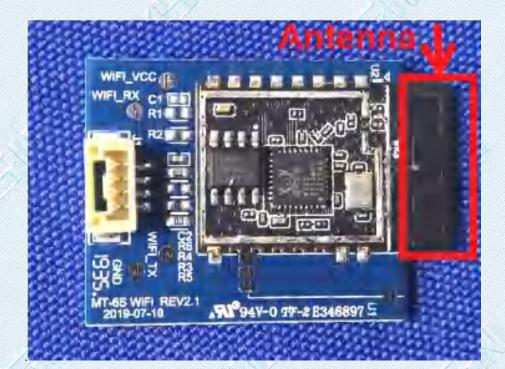












******THE END***********