Waste Electrical and Electronic Equipment Directive (WEEE)

Compliance Assessment Report
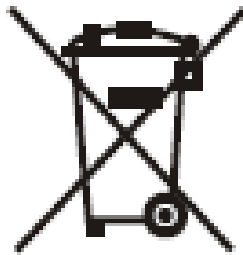
Introduction

Manufacturer:	AVISION INC.
Address:	No. 20, Creation Rd. 1 Science Park, Hsinchu, Taiwan 300, R.O.C
Equipment:	Scanner
Type Designation:	AV332U
Report Date:	2020/7/2
Description	The product as described in this report was found to based the requirements of recast WEEE directive (2012/19/EC) Article 11-Recovery and Article 15-Information treatment facilities to disclose Recycle, Reuse and Recovery rate and its disassembly information. This report are including below contents: (1) Product information (2) Product disassembly method (3) Recycle, Reuse and Recovery rate evaluation
Assessment Result:	Reuse and recycling Rate = 97.89%
	Recovery Rate = 99.93%

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1. Product Information:

Dimension(W×D×H): 282×152×165 mm Weight : 2.5kg	Accessories: Power Supply USB Cable

2. WEEE Category

The products falling under categories 6 of WEEE directive Annex III,

- the rate of recovery shall be increased to a minimum of 75 by an average weight per appliance, and

- component, material and substance reuse and recycling shall be increased to a minimum of 55 by an average weight per appliance;

3. Dismantling Process

Step 1: Take out Output Tray.

Step 2: Open the Front Cover and unloosen the tenon to remove Input tray Ass'y.
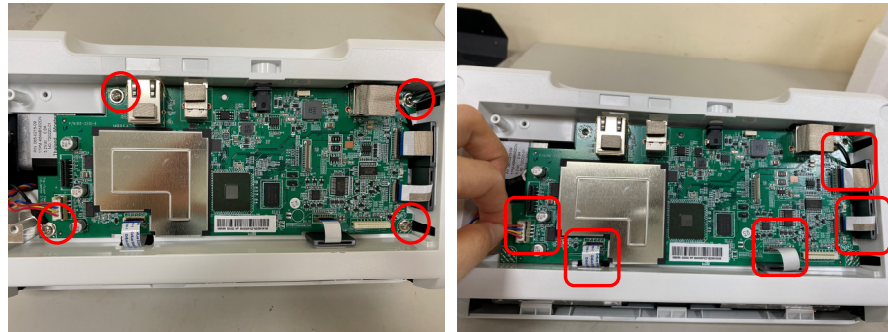

Step 3: Turn the scanner over and remove the tapes. Use screwdriver to take out the Cover PCBA. And take out the label from Cover PCBA.

Step 4: Pry out the Rubber Stands with a flat screw driver.

Step 5: Use the screwdriver and unplug the cables to remove
PCBA(MBA863/004-3369-9)

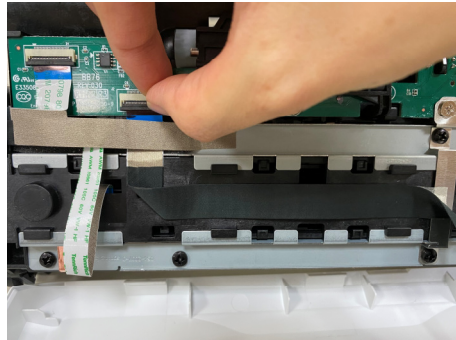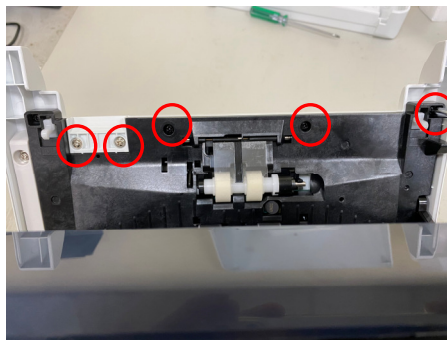Step 6: Unloosen the tenon to take out Top Cover.

Step 7: Use the screwdriver and unloosen the tenon to take out
Bottom Cover(051-C263-0)

Step 8: Use the screwdriver and unplug the cable to separate Upper Housing
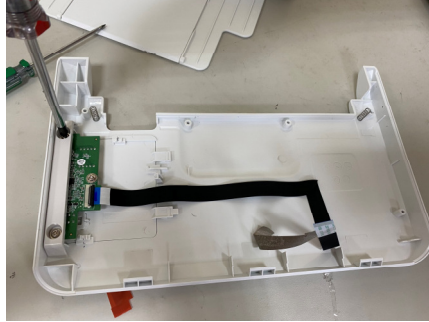Ass'y and remove Latch.

Step 9: Unloosen the tenon to separate Upper Base Ass'y and Lower Base Ass'y.

Upper Housing Ass'y

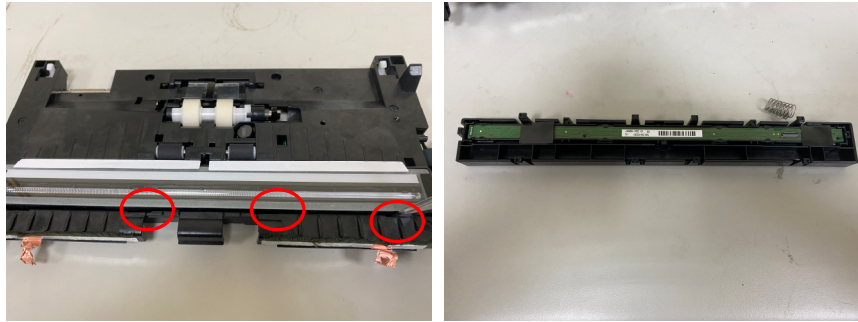Step 1: Use the screwdriver to remove UI Cover.

Step 2: Unloosen the tenon to remove Buttons, PCBA(UIA274/004-3520-9) and Cover Front(051-9675-0).

Upper Base Ass'y

Step 1: Pry out the CIS Module with a flat screw driver.

Step 2: Use a screwdriver to take out Roller, Spring and Holder.
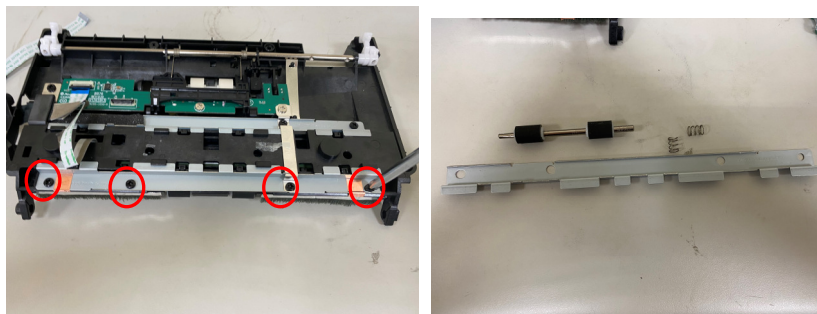
Step 3: Disconnect the cables and remove the Cable Holder.

Step 4: Take out the Sponge.

Step 5: Use a screwdriver to remove Shaft, Spring and Hooks.
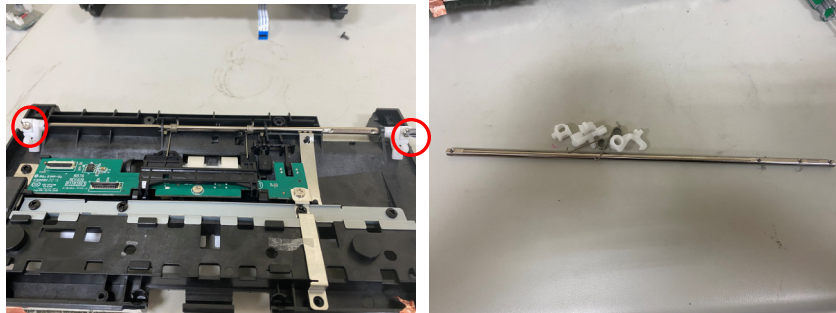
Step 6: Unloosen the tenon to take out the Holder.

Step 7: Use a screwdriver to take out PCBA(BBA76/004-3250-9)
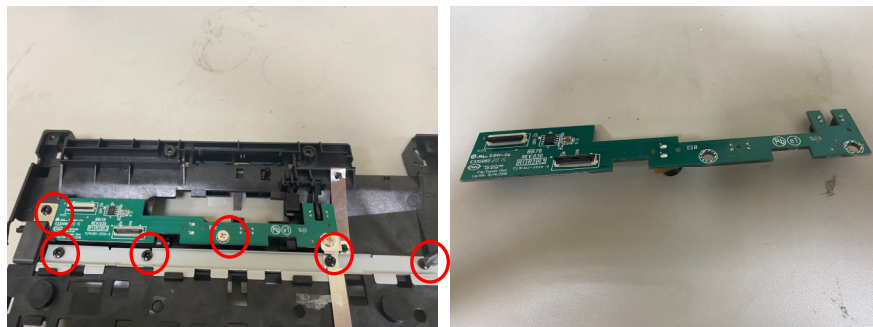
Step 8: Unloosen the tenon to take out Upper Case(051-A108-0)

Lower Base Ass'y

Step 1: Unloosen the tenon to take out Twist Spring
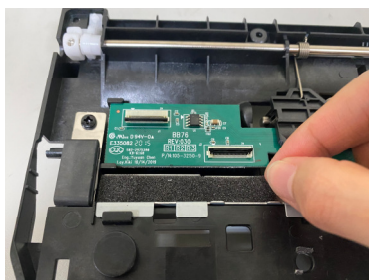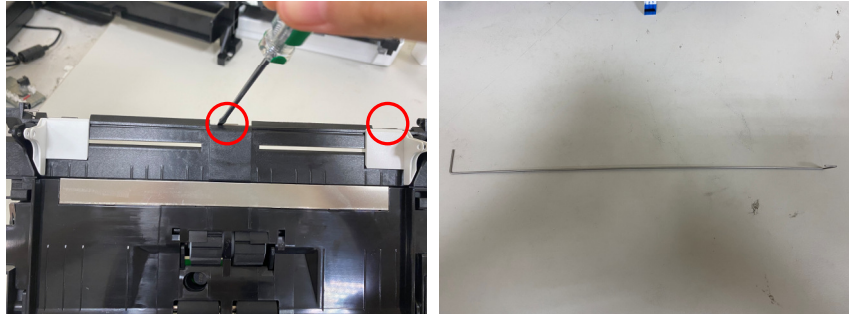

Step 2 : Insert a flat screw driver into the 6 places in the Gear as shown.
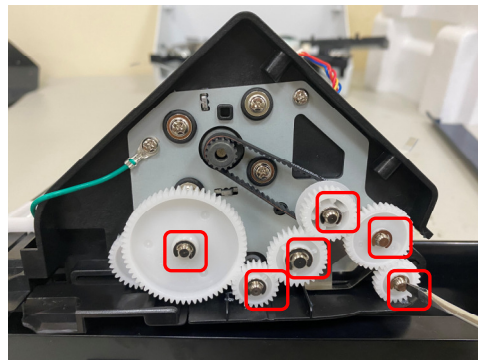
Step 3: Open the Roller Cover and unlossen the tenon to remove Roller Cover.
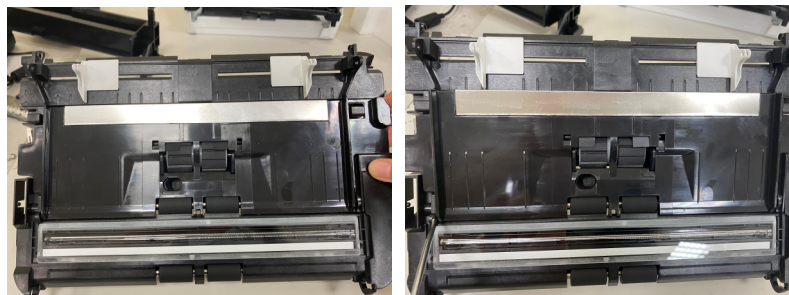
Step 4: Unloosen the tenon to take out ESD Plate.

Step 5: Open the blue Lock to remove roller.
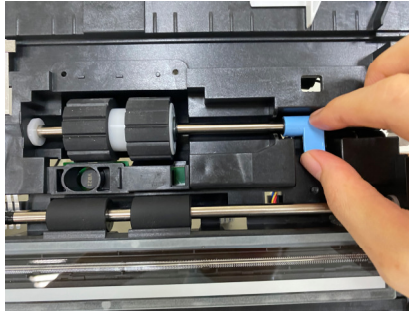
Step 6: Unloosen the tenon and cut the Idle Roller.

Step 7: Unloosen the tenon to take out Roller.
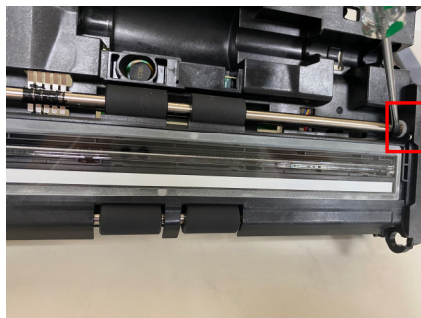
Step 8: Use a screwdriver and unloosen the tenon to take out Rack/Guide L&R.

Step 9: Cut the Belt.

Step 10: Use a screwdriver to take out Motor.
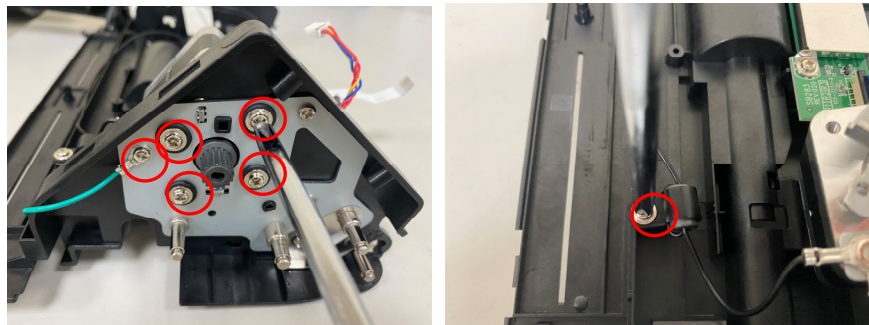
Step 11: Take out the Sponges.
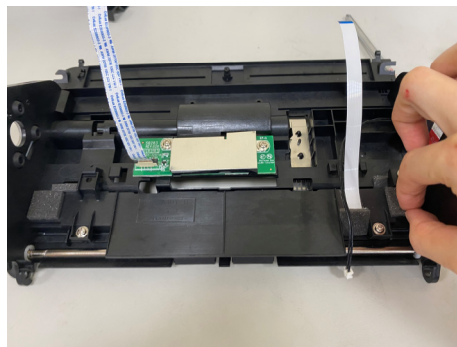
Step 12: Use a screwdriver to take out CIS Holder and CIS Ass'y.
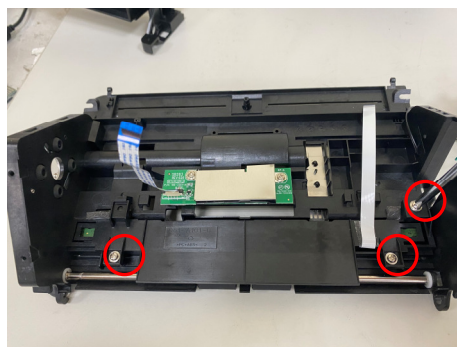
Step 13: Unloosen the tenon to take out Roller.

Step 14: Use a screwdriver to take out Cover PCBA &
PCBA(SBA301/004-3448-9)
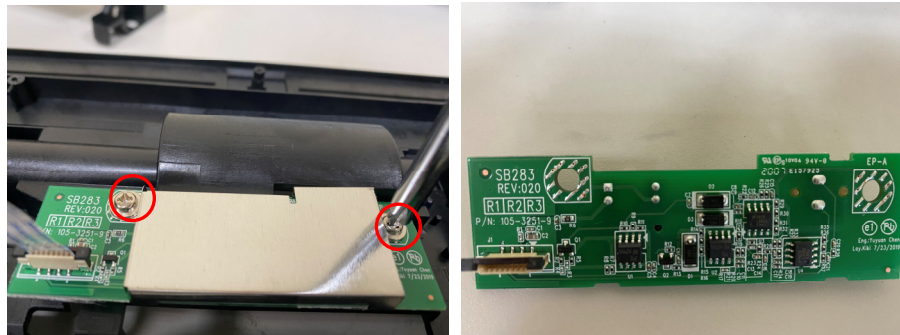
Step 15: Use a screwdriver to take out Main Plate, Damper and Lower
Base(051-A109-0)

Input Tray Ass'y

Step 1: Take out the label.
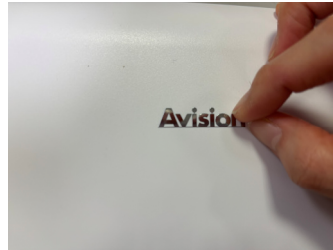
Step 2: Unloosen the tenon to take out Input Tray Cover(051-C262-0).
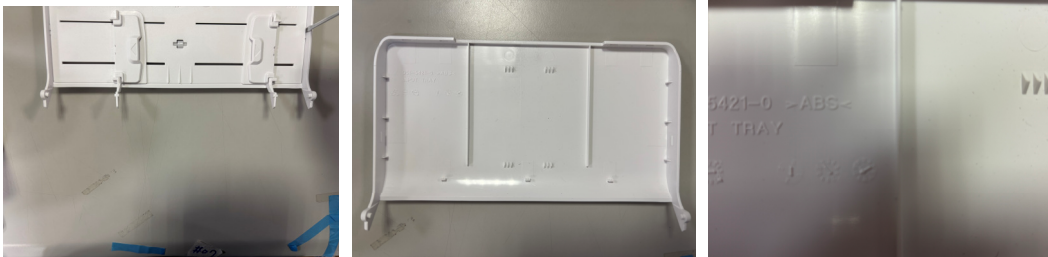
Step 3: Take out Extend Tray.
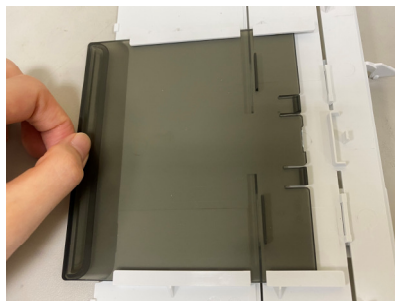
Step 4: Unloosen the tenon to separate Input Tray and Guides.

CIS Module

Step 1: Take out the Tape.

Step 2: Unloosen the tenon to remove CIS PCBA.
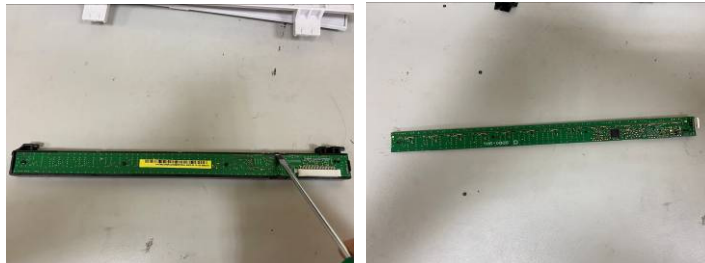
Step 3: Unloosen the tenon to remove CIS Holder & LED.

4. Disassembly Tool

(1)	(2)
Screwdriver	**Screwdriver**

(3)
Pliers

5. Part List

No.	Name	Material	Qty.	Weight (g)	Characteristic
1	Cable Holder	ABS	1	3.90	Recycle
2	Blue Lock	POM	1	1.45	Recycle
3	UI Cover	ABS	1	3.15	Recycle
4	Holder	PC+20%GF	1	6.70	Recycle
5	Roller Cover	PC+ABS	1	55.00	Recycle
6	CIS Holder -Lower	PC+20%GF	1	28.80	Recycle
7	CIS Holder -Upper	PC+20%GF	1	25.00	Recycle
8	Upper Case	PC+20%GF	1	143.00	Recycle
9	Lower Case	PC+20%GF	1	237.00	Recycle
10	Front Cover	ABS	1	107.00	Recycle
11	Input Cover	ABS	1	103.00	Recycle
12	Top Cover	ABS	1	24.50	Recycle
13	Bottom Cover	ABS	1	301.80	Recycle
14	Beauty Cover	ABS	1	12.50	Recycle
15	Input Tray	ABS	1	65.50	Recycle
16	Output Tray	ABS	1	77.00	Recycle
17	Output Tray Extend	ABS	1	29.00	Recycle
18	GUIDE L/R	ABS	2	4.00	Recycle
19	Latch	ABS	1	3.00	Recycle
20	Extend Tray	ABS	1	36.00	Recycle
21	Guide Holder L/R	ABS	1	6.80	Recycle
22	Guide	ABS	2	6.00	Recycle
23	Buttons	ABS	5	3.50	Recycle
24	Cover Front,UI	ABS	1	15.00	Recycle
25	Cover,LED	PC	1	1.70	Recycle
26	Sensor Jam	POM+30%GF	1	3.10	Recycle
27	Guide-Paper Suppressor	POM	1	3.50	Recycle
28	Cable Holder Cover	ABS	1	2.00	Recycle
29	ARM Sensor - SCAN	POM	1	0.28	Recycle
30	ARM Sensor - Paper In	POM	1	1.10	Recycle
31	Rack	POM	2	14.35	Recycle

No.	Name	Material	Qty.	Weight (g)	Characteristic
32	Gear	POM	7	12.05	Recycle
33	Spring Holder	SECC	2	39.00	Recycle
34	ESD Plate	SUS301	1	5.80	Recycle
35	Main Plate	SECC	1	60.06	Recycle
36	Bottom Cover	SECC	1	106.00	Recycle
37	Motor Mount	SECC	1	31.68	Recycle
38	Pulley	Metal	1	8.60	Recycle
39	Idle Roller Shaft	SUM22	2	13.68	Recycle
40	ADF Roller Shaft	SUM22	1	38.28	Recycle
41	Latch Shaft	SUM24L	1	36.64	Recycle
42	Friction Roller Shaft	Metal	1	14.50	Recycle
43	Feed Roller	PU	2	8.00	Recycle
44	Feed Roller Shaft	Metal	2	118.76	Recycle
45	Rubber Stand	Silicon	4	1.92	Energy Recovery
46	Sponge	Sponge	8	3.88	Energy Recovery
47	Glass	Glass	2	35.10	Recycle
48	Motor	Metal	1	232.00	Recycle
49	Cover PCBA	SPTE	1	2.50	Recycle
50	Springs	Metal	13	4.23	Recycle
51	Screws	Metal	54	33.82	Recycle
52	PCBA	PCB Complex	1	13.59	80% Recycle + 20% Energy Recovery
53	PCBA	PCB Complex	1	10.14	80% Recycle + 20% Energy Recovery
54	PCBA	PCB Complex	1	109.63	80% Recycle + 20% Energy Recovery
55	PCBA	PCB Complex	1	13.50	80% Recycle + 20% Energy Recovery
56	PCBA	PCB Complex	1	2.06	80% Recycle + 20% Energy Recovery

No.	Name	Material	Qty.	Weight (g)	Characteristic
57	PCBA	PCB Complex	1	1.32	80% Recycle + 20% Energy Recovery
58	CIS PCBA	PCB Complex	2	29.00	80% Recycle + 20% Energy Recovery
59	CIS Cover	Plastic	2	26.00	Recycle
60	Wires & Cables	Cables	12	100.76	Recycle

6. 3R Assessment

Item	Main Material	Characteristic	Weight (g)	Percent (%)
1	Metal	Recycle	745.55	30.59%
2	Plastic	Recycle	1362.68	55.91%
3	Glass	95% Recycle	33.35	1.37%
		5% Landfill	1.76	0.07%
4	CCFL	95% Recycle	0.00	0.00%
		5% Landfill	0.00	0.00%
5	Silicon	Energy Recovery	1.92	0.08%
6	Cables	Recycle	100.76	4.13%
7	Sponge	Energy Recovery	3.88	0.16%
8	Rubber	Energy Recovery	8.00	0.33%
9	PCBA	80% Recycle	143.39	5.88%
		20% Energy Recovery	35.85	1.47%
10	Capacitance over 2.5cm	Landfill	0.00	0.00%
11	LCD	Recycle	0.00	0.00%
Total weight (excluding external power supply)			2437.13 g	100.00%
Recycling Rate (Reuse＋Recycle)			2385.73 g	97.89%
Energy Recovery			49.65 g	2.04%
Recovery Rate (Reuse＋Recycle＋Energy Recovery)			2435.38 g	99.93%

7. WEEE Compliance

Item	Weight（g）	Percentage
Recycle	2385.73	97.89%
Waste to Energy	49.65	2.04%
Landfill	1.76	0.07%

Product WEEE Recycling Assessment

97.89%

2.04%
0.07%

- Recycle
- Waste to Energy
- Landfill
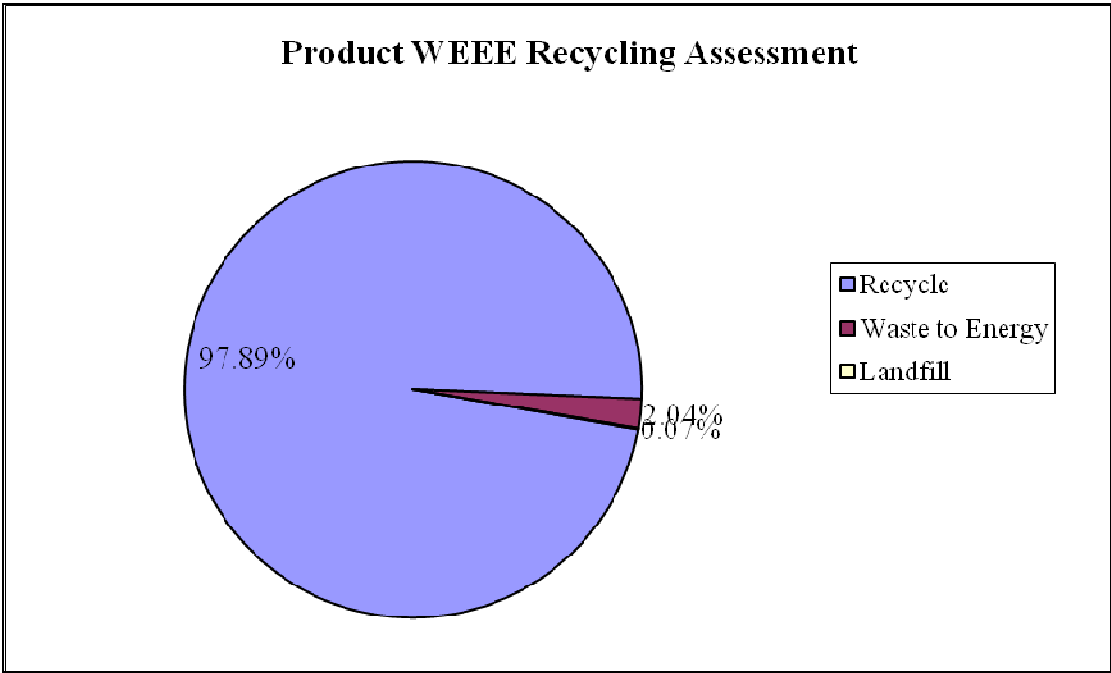
8. WEEE ANNEX VII

—As the following substances, mixtures and components have to be removed from any separately collected WEEE:

No.	Name	Qty.	Weight (g)	Annex VII Materials
1	CIS PCBA	2	29	Printed circuit board is greater than 10 square centimeters
2	PCBA	1	13.59	Printed circuit board is greater than 10 square centimeters
3	PCBA	1	10.14	Printed circuit board is greater than 10 square centimeters
4	PCBA	1	109.63	Printed circuit board is greater than 10 square centimeters

*Materials exhibiting hazardous characteristics or those requiring special handling are those materials defined under Annex VII of the EU WEEE Directive 2012/19/EU and subsequent updates.