

VDE Testing and Certification Institute • Merianstr. 28 • 63069 Offenbach • Germany

Date: July 27th, 2023
From: Dr. Michael Riess, VDE
To: Motorola /Lenovo

Subject: **Recyclability and Recoverability Report by VDE Testing and Certification Institute**

XT2343, XT2431, XT2435 Series

Description of Methodology


The calculation is based on a disassembly assessment of the product. The disassembly is done down to the level of “functional units” similar to what is done in recycling facilities. Based on Material Assessment data the composition of each functional unit is evaluated regarding compatibility of the overall material composition of the functional unit with material fractions, similar to the requirements of the European WEEE directive 2012/19/EU.

The functional unit material compatibility assessment allows the calculation of the recyclability and recoverability¹⁾. Formulas for calculation:

$$\text{recyclability} = \sum(\text{mass of recyclable product fractions/materials}) \div (\text{total mass of product}) \times 100$$

$$\text{recoverability} = \sum(\text{mass of recyclable product fractions/materials} + \text{mass of further serving useful purpose product material-mixes}) \div (\text{total mass of product}) \times 100$$

¹⁾ Percentage of materials that are compatible with materials recycling processes or that can go into energy recovery process

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	Dr. Michael Riess	

Annex

Based on Testreport-308200-TL7-1 the product achieves a recycling quote of 84.62 % and a recovery quote of 87.24 %.

Required Records:

1. Total weight of mobile phone (with Battery): 175.861 g = 0.388 lbs
2. Fraction Assessment for recycling:

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Aluminum	FV2115-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera cover frame	1,900	1,900	100%	YES	
Battery	FV2138-00	23-147 Motorola, Cancun 5G23, Model XT2343, Battery	61,595	61,595	100%	YES	
Copper Alloy	FV2107-01	23-147 Motorola, Cancun 5G23, Model XT2343, Copper glue strip 1	0,173	0,173	100%	YES	
Copper Alloy	FV2107-02	23-147 Motorola, Cancun 5G23, Model XT2343, Copper glue strip 2	0,081	0,081	100%	YES	
Ferrous Alloy	FV2111-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black screws 1+2	0,633	0,633	100%	YES	
Ferrous Alloy	FV2140-00	23-147 Motorola, Cancun 5G23, Model XT2343, Display metal plate	8,296	8,296	100%	YES	
Glass	FV2112-01	23-147 Motorola, Cancun 5G23, Model XT2343, Glass rear camera cover 1	0,139	0,139	100%	YES	
Glass	FV2112-02	23-147 Motorola, Cancun 5G23, Model XT2343, Glass rear camera cover 2	0,135	0,135	100%	YES	
Glass	FV2141-00	23-147 Motorola, Cancun 5G23, Model XT2343, Front glass	27,425	27,425	100%	YES	
Non recyclable	FV2098-00	23-147 Motorola, Cancun 5G23, Model XT2343, SIM Card holder	0,410	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 1	1,110	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 2	0,009	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	FV2099-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 3	0,027	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 4	0,026	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-05	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 5	0,034	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-06	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 6	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-07	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 7	0,004	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-08	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 8	0,003	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-09	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 9	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-10	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 10	0,025	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-11	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 11	0,038	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-12	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 12	0,029	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-13	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 13	0,003	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-14	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 14	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-16	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 16	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2099-17	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 17	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 1	0,017	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 2	0,024	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 3	0,013	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 4	0,004	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	FV2100-05	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 5	0,168	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-06	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 6	1,177	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-08	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 8	0,063	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-09	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 9	0,023	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2100-10	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 10	0,014	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2102-01	23-147 Motorola, Cancun 5G23, Model XT2343, Label 1	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2102-02	23-147 Motorola, Cancun 5G23, Model XT2343, Label 2	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2102-03	23-147 Motorola, Cancun 5G23, Model XT2343, Label 3	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2102-05	23-147 Motorola, Cancun 5G23, Model XT2343, Label 5	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2104-01	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 1	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2104-02	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 2	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2104-03	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 3	0,019	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2104-04	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 4	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2105-01	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 1	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2105-02	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 2	0,003	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2105-03	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2105-04	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 4	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2105-05	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 5	0,051	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	FV2106-02	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue strips 1	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2106-03	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue strips 2	0,229	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2109-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black rubber part	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2109-02	23-147 Motorola, Cancun 5G23, Model XT2343, Blue rubber part	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2110-00	23-147 Motorola, Cancun 5G23, Model XT2343, White paste	0,214	0	0%	NO	Non remeltable
Non recyclable	FV2122-00	23-147 Motorola, Cancun 5G23, Model XT2343, Volume buttons	0,074	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2139-02	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Polarization foil 1	0,935	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	FV2142-00	23-147 Motorola, Cancun 5G23, Model XT2343, Metal housing	22,223	0	0%	NO	Material Mix more than 5% differing materials, Lead
PWB and mixed Electronics	FV2116-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 1	0,108	0,108	100%	YES	
PWB and mixed Electronics	FV2117-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 2	0,055	0,055	100%	YES	
PWB and mixed Electronics	FV2118-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 3	0,107	0,107	100%	YES	
PWB and mixed Electronics	FV2119-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 4	0,040	0,040	100%	YES	
PWB and mixed Electronics	FV2120-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 5	0,358	0,358	100%	YES	
PWB and mixed Electronics	FV2121-00	23-147 Motorola, Cancun 5G23, Model XT2343, Flashlight PWB	0,093	0,093	100%	YES	
PWB and mixed Electronics	FV2124-00	23-147 Motorola, Cancun 5G23, Model XT2343, Power button flex	0,274	0,274	100%	YES	
PWB and mixed Electronics	FV2125-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera 1	0,211	0,211	100%	YES	
PWB and mixed Electronics	FV2126-00	23-147 Motorola, Cancun 5G23, Model XT2343, Front camera	0,254	0,254	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
PWB and mixed Electronics	FV2127-00	23-147 Motorola, Cancun 5G23, Model XT2343, Bottom speaker	2,541	2,541	100%	YES	
PWB and mixed Electronics	FV2128-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black connection cable	0,172	0,172	100%	YES	
PWB and mixed Electronics	FV2129-00	23-147 Motorola, Cancun 5G23, Model XT2343, White connectin cable	0,187	0,187	100%	YES	
PWB and mixed Electronics	FV2130-00	23-147 Motorola, Cancun 5G23, Model XT2343, Lightning jack PWB	1,462	1,462	100%	YES	
PWB and mixed Electronics	FV2131-00	23-147 Motorola, Cancun 5G23, Model XT2343, Vibra call	0,914	0,914	100%	YES	
PWB and mixed Electronics	FV2132-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera 2	1,458	1,458	100%	YES	
PWB and mixed Electronics	FV2133-00	23-147 Motorola, Cancun 5G23, Model XT2343, Main PWB	14,815	14,815	100%	YES	
PWB and mixed Electronics	FV2134-00	23-147 Motorola, Cancun 5G23, Model XT2343, Top Speaker	0,961	0,961	100%	YES	
PWB and mixed Electronics	FV2135-00	23-147 Motorola, Cancun 5G23, Model XT2343, Connection flex	0,556	0,556	100%	YES	
PWB and mixed Electronics	FV2136-00	23-147 Motorola, Cancun 5G23, Model XT2343, Volume button flex	0,168	0,168	100%	YES	
PWB and mixed Electronics	FV2137-00	23-147 Motorola, Cancun 5G23, Model XT2343, Display connection flex	0,777	0,777	100%	YES	
PWB and mixed Electronics	FV2138-01	23-147 Motorola, Cancun 5G23, Model XT2343, Battery, Flex	0,542	0,542	100%	YES	
Recyclable Plastic	FV2099-15	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 15	0,003	0,003	100%	YES	
Recyclable Plastic	FV2100-07	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 7	0,001	0,001	100%	YES	
Recyclable Plastic	FV2100-11	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 11	0,004	0,004	100%	YES	
Recyclable Plastic	FV2100-12	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 12	0,001	0,001	100%	YES	
Recyclable Plastic	FV2101-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 1	0,271	0,271	100%	YES	
Recyclable Plastic	FV2101-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 2	0,063	0,063	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Recyclable Plastic	FV2101-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 3	0,073	0,073	100%	YES	
Recyclable Plastic	FV2101-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 4	0,004	0,004	100%	YES	
Recyclable Plastic	FV2102-04	23-147 Motorola, Cancun 5G23, Model XT2343, Label 4	0,001	0,001	100%	YES	
Recyclable Plastic	FV2102-06	23-147 Motorola, Cancun 5G23, Model XT2343, Label 6	0,005	0,005	100%	YES	
Recyclable Plastic	FV2103-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue 1	0,005	0,005	100%	YES	
Recyclable Plastic	FV2103-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue 2	0,008	0,008	100%	YES	
Recyclable Plastic	FV2106-01	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue	0,001	0,001	100%	YES	
Recyclable Plastic	FV2108-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic part	0,075	0,075	100%	YES	
Recyclable Plastic	FV2108-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic strip	0,001	0,001	100%	YES	
Recyclable Plastic	FV2113-00	23-147 Motorola, Cancun 5G23, Model XT2343, Backside cover	6,896	6,896	100%	YES	
Recyclable Plastic	FV2114-00	23-147 Motorola, Cancun 5G23, Model XT2343, Light guide	0,031	0,031	100%	YES	
Recyclable Plastic	FV2123-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic fram	7,454	7,454	100%	YES	
Recyclable Plastic	FV2139-01	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Diffuser plate	4,312	4,312	100%	YES	
Recyclable Plastic	FV2139-03	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Reflection foil	1,138	1,138	100%	YES	
Recyclable Plastic	FV2139-04	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Diffuser foil	0,706	0,706	100%	YES	
Recyclable Plastic	FV2139-05	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Polarization foil 2	1,339	1,339	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
			175,861	148,822			

3. Fraction Assessment for recovery:

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Aluminum	FV2115-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera cover frame	1,900	1,900	100%	YES	
Battery	FV2138-00	23-147 Motorola, Cancun 5G23, Model XT2343, Battery	61,595	61,595	100%	YES	
Copper Alloy	FV2107-01	23-147 Motorola, Cancun 5G23, Model XT2343, Copper glue strip 1	0,173	0,173	100%	YES	
Copper Alloy	FV2107-02	23-147 Motorola, Cancun 5G23, Model XT2343, Copper glue strip 2	0,081	0,081	100%	YES	
Ferrous Alloy	FV2111-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black screws 1+2	0,633	0,633	100%	YES	
Ferrous Alloy	FV2140-00	23-147 Motorola, Cancun 5G23, Model XT2343, Display metal plate	8,296	8,296	100%	YES	
Glass	FV2112-01	23-147 Motorola, Cancun 5G23, Model XT2343, Glass rear camera cover 1	0,139	0,139	100%	YES	
Glass	FV2112-02	23-147 Motorola, Cancun 5G23, Model XT2343, Glass rear camera cover 2	0,135	0,135	100%	YES	
Glass	FV2141-00	23-147 Motorola, Cancun 5G23, Model XT2343, Front glass	27,425	27,425	100%	YES	
Non recyclable	FV2098-00	23-147 Motorola, Cancun 5G23, Model XT2343, SIM Card holder	0,410	0,410	100%	YES	
Non recyclable	FV2099-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 1	1,110	1,110	100%	YES	
Non recyclable	FV2099-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 2	0,009	0,009	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	FV2099-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 3	0,027	0,027	100%	YES	
Non recyclable	FV2099-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 4	0,026	0,026	100%	YES	
Non recyclable	FV2099-05	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 5	0,034	0,034	100%	YES	
Non recyclable	FV2099-06	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 6	0,001	0,001	100%	YES	
Non recyclable	FV2099-07	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 7	0,004	0,004	100%	YES	
Non recyclable	FV2099-08	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 8	0,003	0,003	100%	YES	
Non recyclable	FV2099-09	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 9	0,008	0,008	100%	YES	
Non recyclable	FV2099-10	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 10	0,025	0,025	100%	YES	
Non recyclable	FV2099-11	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 11	0,038	0,038	100%	YES	
Non recyclable	FV2099-12	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 12	0,029	0,029	100%	YES	
Non recyclable	FV2099-13	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 13	0,003	0,003	100%	YES	
Non recyclable	FV2099-14	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 14	0,005	0,005	100%	YES	
Non recyclable	FV2099-16	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 16	0,002	0,002	100%	YES	
Non recyclable	FV2099-17	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 17	0,001	0,001	100%	YES	
Non recyclable	FV2100-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 1	0,017	0,017	100%	YES	
Non recyclable	FV2100-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 2	0,024	0,024	100%	YES	
Non recyclable	FV2100-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 3	0,013	0,013	100%	YES	
Non recyclable	FV2100-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 4	0,004	0,004	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	FV2100-05	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 5	0,168	0,168	100%	YES	
Non recyclable	FV2100-06	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 6	1,177	1,177	100%	YES	
Non recyclable	FV2100-08	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 8	0,063	0,063	100%	YES	
Non recyclable	FV2100-09	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 9	0,023	0,023	100%	YES	
Non recyclable	FV2100-10	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 10	0,014	0,014	100%	YES	
Non recyclable	FV2102-01	23-147 Motorola, Cancun 5G23, Model XT2343, Label 1	0,007	0,007	100%	YES	
Non recyclable	FV2102-02	23-147 Motorola, Cancun 5G23, Model XT2343, Label 2	0,002	0,002	100%	YES	
Non recyclable	FV2102-03	23-147 Motorola, Cancun 5G23, Model XT2343, Label 3	0,002	0,002	100%	YES	
Non recyclable	FV2102-05	23-147 Motorola, Cancun 5G23, Model XT2343, Label 5	0,002	0,002	100%	YES	
Non recyclable	FV2104-01	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 1	0,002	0,002	100%	YES	
Non recyclable	FV2104-02	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 2	0,005	0,005	100%	YES	
Non recyclable	FV2104-03	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 3	0,019	0,019	100%	YES	
Non recyclable	FV2104-04	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic glue strips 4	0,006	0,006	100%	YES	
Non recyclable	FV2105-01	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 1	0,006	0,006	100%	YES	
Non recyclable	FV2105-02	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 2	0,003	0,003	100%	YES	
Non recyclable	FV2105-03	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 3	0,001	0,001	100%	YES	
Non recyclable	FV2105-04	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 4	0,001	0,001	100%	YES	
Non recyclable	FV2105-05	23-147 Motorola, Cancun 5G23, Model XT2343, Metallic shock pads 5	0,051	0,051	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	FV2106-02	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue strips 1	0,007	0,007	100%	YES	
Non recyclable	FV2106-03	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue strips 2	0,229	0,229	100%	YES	
Non recyclable	FV2109-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black rubber part	0,006	0,006	100%	YES	
Non recyclable	FV2109-02	23-147 Motorola, Cancun 5G23, Model XT2343, Blue rubber part	0,006	0,006	100%	YES	
Non recoverable	FV2110-00	23-147 Motorola, Cancun 5G23, Model XT2343, White paste	0,214	0	0%	NO	Non remeltable
Non recyclable	FV2122-00	23-147 Motorola, Cancun 5G23, Model XT2343, Volume buttons	0,074	0,074	100%	YES	
Non recyclable	FV2139-02	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Polarization foil 1	0,935	0,935	100%	YES	
Non recoverable	FV2142-00	23-147 Motorola, Cancun 5G23, Model XT2343, Metal housing	22,223	0	0%	NO	Material Mix more than 5% differing materials, Lead
PWB and mixed Electronics	FV2116-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 1	0,108	0,108	100%	YES	
PWB and mixed Electronics	FV2117-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 2	0,055	0,055	100%	YES	
PWB and mixed Electronics	FV2118-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 3	0,107	0,107	100%	YES	
PWB and mixed Electronics	FV2119-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 4	0,040	0,040	100%	YES	
PWB and mixed Electronics	FV2120-00	23-147 Motorola, Cancun 5G23, Model XT2343, Antenna flex 5	0,358	0,358	100%	YES	
PWB and mixed Electronics	FV2121-00	23-147 Motorola, Cancun 5G23, Model XT2343, Flashlight PWB	0,093	0,093	100%	YES	
PWB and mixed Electronics	FV2124-00	23-147 Motorola, Cancun 5G23, Model XT2343, Power button flex	0,274	0,274	100%	YES	
PWB and mixed Electronics	FV2125-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera 1	0,211	0,211	100%	YES	
PWB and mixed Electronics	FV2126-00	23-147 Motorola, Cancun 5G23, Model XT2343, Front camera	0,254	0,254	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
PWB and mixed Electronics	FV2127-00	23-147 Motorola, Cancun 5G23, Model XT2343, Bottom speaker	2,541	2,541	100%	YES	
PWB and mixed Electronics	FV2128-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black connection cable	0,172	0,172	100%	YES	
PWB and mixed Electronics	FV2129-00	23-147 Motorola, Cancun 5G23, Model XT2343, White connectin cable	0,187	0,187	100%	YES	
PWB and mixed Electronics	FV2130-00	23-147 Motorola, Cancun 5G23, Model XT2343, Lightning jack PWB	1,462	1,462	100%	YES	
PWB and mixed Electronics	FV2131-00	23-147 Motorola, Cancun 5G23, Model XT2343, Vibra call	0,914	0,914	100%	YES	
PWB and mixed Electronics	FV2132-00	23-147 Motorola, Cancun 5G23, Model XT2343, Rear camera 2	1,458	1,458	100%	YES	
PWB and mixed Electronics	FV2133-00	23-147 Motorola, Cancun 5G23, Model XT2343, Main PWB	14,815	14,815	100%	YES	
PWB and mixed Electronics	FV2134-00	23-147 Motorola, Cancun 5G23, Model XT2343, Top Speaker	0,961	0,961	100%	YES	
PWB and mixed Electronics	FV2135-00	23-147 Motorola, Cancun 5G23, Model XT2343, Connection flex	0,556	0,556	100%	YES	
PWB and mixed Electronics	FV2136-00	23-147 Motorola, Cancun 5G23, Model XT2343, Volume button flex	0,168	0,168	100%	YES	
PWB and mixed Electronics	FV2137-00	23-147 Motorola, Cancun 5G23, Model XT2343, Display connection flex	0,777	0,777	100%	YES	
PWB and mixed Electronics	FV2138-01	23-147 Motorola, Cancun 5G23, Model XT2343, Battery, Flex	0,542	0,542	100%	YES	
Recyclable Plastic	FV2099-15	23-147 Motorola, Cancun 5G23, Model XT2343, Black shock pad 15	0,003	0,003	100%	YES	
Recyclable Plastic	FV2100-07	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 7	0,001	0,001	100%	YES	
Recyclable Plastic	FV2100-11	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 11	0,004	0,004	100%	YES	
Recyclable Plastic	FV2100-12	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue strips 12	0,001	0,001	100%	YES	
Recyclable Plastic	FV2101-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 1	0,271	0,271	100%	YES	
Recyclable Plastic	FV2101-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 2	0,063	0,063	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Recyclable Plastic	FV2101-03	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 3	0,073	0,073	100%	YES	
Recyclable Plastic	FV2101-04	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue pads 4	0,004	0,004	100%	YES	
Recyclable Plastic	FV2102-04	23-147 Motorola, Cancun 5G23, Model XT2343, Label 4	0,001	0,001	100%	YES	
Recyclable Plastic	FV2102-06	23-147 Motorola, Cancun 5G23, Model XT2343, Label 6	0,005	0,005	100%	YES	
Recyclable Plastic	FV2103-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue 1	0,005	0,005	100%	YES	
Recyclable Plastic	FV2103-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black glue 2	0,008	0,008	100%	YES	
Recyclable Plastic	FV2106-01	23-147 Motorola, Cancun 5G23, Model XT2343, Clear glue	0,001	0,001	100%	YES	
Recyclable Plastic	FV2108-01	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic part	0,075	0,075	100%	YES	
Recyclable Plastic	FV2108-02	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic strip	0,001	0,001	100%	YES	
Recyclable Plastic	FV2113-00	23-147 Motorola, Cancun 5G23, Model XT2343, Backside cover	6,896	6,896	100%	YES	
Recyclable Plastic	FV2114-00	23-147 Motorola, Cancun 5G23, Model XT2343, Light guide	0,031	0,031	100%	YES	
Recyclable Plastic	FV2123-00	23-147 Motorola, Cancun 5G23, Model XT2343, Black plastic fram	7,454	7,454	100%	YES	
Recyclable Plastic	FV2139-01	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Diffuser plate	4,312	4,312	100%	YES	
Recyclable Plastic	FV2139-03	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Reflection foil	1,138	1,138	100%	YES	
Recyclable Plastic	FV2139-04	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Diffuser foil	0,706	0,706	100%	YES	
Recyclable Plastic	FV2139-05	23-147 Motorola, Cancun 5G23, Model XT2343, Display foil assambly, Polarization foil 2	1,339	1,339	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
			175,861	153,424			