VDE Prüfbericht / *VDE Test Report*

Prüfbericht Nr. *Report No.*	293786-TL7-1
VDE-Aktenzeichen *VDE File No.*	5022428-9021-0064/293786
Ausstellungsdatum *Date of issue*	2022-04-13
Labor *Laboratory*	**VDE** Prüf- und Zertifizierungsinstitut GmbH ***VDE** Testing and Certification Institute*
Adresse *Address*	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfort / Adresse *Testing location/ address*	**VDE** Prüf- und Zertifizierungsinstitut GmbH
Auftraggeber *Applicant's name*	Motorola Mobility LLC
Auftraggeber Adresse *Applicant's address*	222 W. Merchandise Mart Plaza, Chicago, Illinois 60654, USA
Angewandte Norm(en) *Applied standard(s)*	Motorola W18 E
	2011/65/EU & 2015/863/EU(RoHS)
	1907/2006/EC § 33 (REACH, SVHC)
	1907/2006/EC Annex XIV (REACH, Authorisation List)
	1907/2006/EC Annex XVII (REACH, List of restrictions)
Art der Prüflinge *Test item description*	**Smart Phone**
Warenzeichen *Trade Mark*	**Motorola/Lenovo**
Typenbezeichnungen(en) *Type reference(s)*	**Model: XT2233 Series** **S/N: NHDL1A0304**
Bemessungsdaten *Ratings*	

Zustand des Prüfmusters *Test sample condition*.....	☒	Unbeschädigtes Prüfmuster *Non-damaged sample*
	Bemerkung / *Remark:*	
Wareneingang Prüfmuster *Sample entry date*.....	2022-02-04	
Datum der Durchführung der Prüfungen *Date (s) of performance of tests*.....	2022-02-04 – 2022-04-13	

Geprüft und erstellt von: *Tested by*.....:	Beatrice Duchardt	
Name / *Name,* Unterschrift / *Signature*.....:	(Autorisierung des Prüfberichtes *Authorization of test report*)	
Funktion / *Function*.....:	Prüfingenieur / Testing engineer	
Überprüft von / *approved by*.....:		
Name / Name, Unterschrift / Signature.....:	Dr. Michael Riess	
Funktion / *Function*.....:	Fachzertifizierer / *Technical Certification Officer*	

Abschließendes Prüfergebnis ***Final Verdict:***	☒	**P**	☐	**F**
Bemerkung / *Remark*.....:				

Durchgeführte Prüfungen / *Performed tests*			
Abschnitt *Clause*	Prüfanforderungen / *Requirement + Test*	Ergebnis – Anmerkung *Result – Remark*	Beurteilung *Verdict*
	Motorola W18 E	Substances detected	
	2011/65/EU & 2015/863/EU(RoHS)	Pass	P
	1907/2006/EC § 33 (REACH, SVHC)	Substances detected	Reporting required*
	1907/2006/EC Annex XIV (REACH, Authorisation List)	No substances detected	
	1907/2006/EC Annex XVII (REACH, List of restrictions)	Substances detected	
Ergänzende Information / *Supplementary information*:			
* According to the kind and extend of the tests performed no reporting is required on the functional unit level. However, reporting is required on the homogeneous material level due to 1,3-propanesultone and lead.			

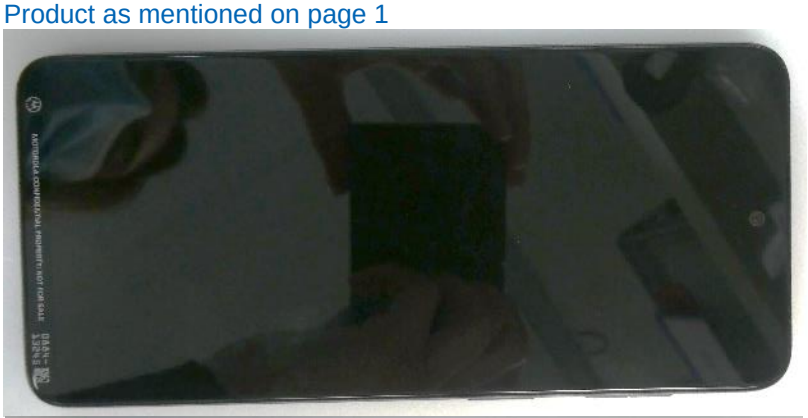
Allgemeine Bemerkungen / *General Remarks:*
Konformitätserklärung / *Conformity statement*: Die VDE-Entscheidungsregel für die Konformitätserklärung entspricht dem Verfahren 2 nach IEC Guide 115:2021 / *The VDE decision rule for the statement of conformity is in accordance with IEC Guide 115:2021 procedure 2*

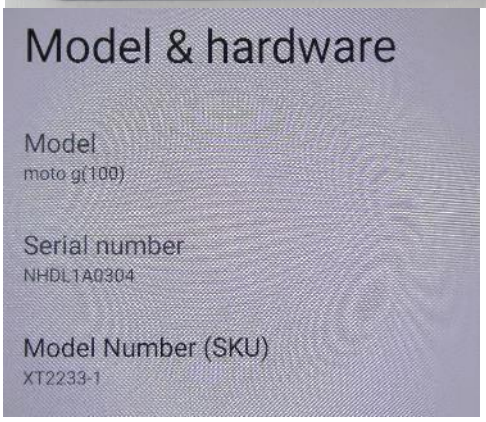
Prüf- und Messmittel / *Testing and measuring equipment*:			
Parameter/s	Instrument/s		Method/e
Chemical elements Screening	Energy-Dispersive X-Ray Fluorescence (EDXRF)		IEC 62321-3-1:2013
	Spectro XEPOS XC (XC) Spectro XEPOS HE (XL) Spectro XEPOS HE (XR)	Inv. No. 1150667 Inv. No. 1150529 Inv. No. 1150796	
Polymers	Infrared Spectrometry (IR)		Inhouse Method SOP TL72 0214 Version 1
	Bruker ALPHA (IR1) Bruker INVENIO S (IR2)	Inv. No. 1150578 Inv. No. 1150787	
Cr(VI)	Ultraviolet Spectrometry (UV-Vis)		IEC 62321-7-1:2015
	Agilent Technologies Cary 8454 UV-Vis	Inv. No. 1150611	
Pb, Br Localization	Energy-Dispersive X-Ray Fluorescence (EDXRF)		IEC 62321-1:2013 IEC 62321-2:2021
	Spectro Midex (M1) Spectro Midex (M2) Spectro Midex (M3) Spectro Midex (M4) Bruker M4 Tornado	Inv. No. 1150728 Inv. No. 1150284 Inv. No. 1150774 Inv. No. 1150776 Inv. No. 1150719	
REACH SVHC / Annex XIV / Annex XVII Substances Headspace screening	Gas chromatography with mass spectrometric detection (GC-MSD)		VUP Guide: Screening Products for SVHC according to the REACH Regulation
	ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (HS-GC2)	Inv. No. 5211104	
REACH SVHC / Annex XIV / Annex XVII Substances screening	Gas chromatography with mass spectrometric detection (GC-MSD)		VUP Guide: Screening Products for SVHC according to the REACH Regulation
	ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4)	Inv. No. 5211095 Inv. No. 5211053	
Phthalates	Gas chromatography with mass spectrometric detection (GC-MSD)		Gas chromatography with mass spectrometric detection (GC-MSD)
	ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4)	Inv. No. 5211095 Inv. No. 5211053	
PAH	Gas chromatography with mass spectrometric detection (GC-MSD)		AfPS GS 2019:01 PAK IEC 62321-10/CD
	ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4)	Inv. No. 5211095 Inv. No. 5211053	

Contents Directory

1 Description of the Sample (EUT)

Type of EUT:	Product as mentioned on page 1
Model:	
Serial number:	





2 Assessment summary of substances according to 12G02897W18

2.1 Global Compliance Acceptance Criteria (banned and controlled Substances)

Substances	Results
Asbestos, asbestos compounds	For indicator elements Al and Si see chapter 3 [1)]
Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (“BNST”)	n.t.
Chlorofluorocarbons and halons (Class I and II Ozone Depleting Chemicals) [1]	For indicator element Cl see chapter 3 [1)]
Halogenated dioxins and furans	(For indicator element Cl and Br see chapter 3 [1)])
Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur Hexafluoride (SF6)	n.t.
Mercury and Mercury Compounds	n.d. see chapter 3
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-imethylethyl)-	n.d. see chapter 5
Polychlorobiphenyls and derivatives (PCBs)	For indicator element Cl see chapter 3 [1)]
Polychloroterphenyls and derivatives (PCTs)	For indicator element Cl see chapter 3 [1)]
Azo Dyes in leathers and textiles	n.a. (no leather and textiles)
Arsenic and arsenic compounds in wood products as a preservative [3]	For indicator element As see chapter 3 [1)]
Bisphenol-A [4]	Detected see chapter 5
Cadmium and cadmium compounds	n.d. see chapter 3
Cadmium, Chromium (VI), Lead and Mercury metals and compounds in packaging	n.a. (no packaging)
Cadmium and cadmium compounds in “portable” batteries	n.a. (no batteries)
Chromium (VI) compounds	n.d. see chapter 3
Chromium (VI) compounds in leather and textiles	n.a. (no leather and textiles)
Cobalt Dichloride	For indicator element Co see chapter 3 [1)]
Creosotes	For indicator substances (Anthracene, Benzo[a]pyrene etc.) see chapter 5
Diisobutyl Phthalate (DIBP), Dibutyl Phthalate (DBP), Benzyl Butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP)	Not detected see chapter 2.3, 3, 5
Diisononyl Phthalate (DINP)	n.d. see chapter 3, 5
Formaldehyde	n.a. (no Composite Wood Products, textiles, washing or cleaning agents, cosmetic care products)
Lead and lead compounds	**detected** see chapter 2.2; 2.3; 3; 4
Lead in cable jackets [1, 2]	n.d. see chapter 3
Nickel and nickel compounds [4]	**detected** see chapter 3 [2)]
Nonylphenol ethoxylate [7]	n.d. see chapter 5
Nonylphenol and its isomer mixtures [7]	n.d. see chapter 5

Substances	Results
Polybrominated biphenyls (PBBs)	n.d. see chapter 3
Polybrominated diphenyl ethers (PBDEs)	n.d. see chapter 3
Perchlorates-Lithium Perchlorate, Magnesium Perchlorate, Zinc Perclorate [5]	n.a. (no perchlorate Batteries)
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	n.t.
Perfluorooctanoic Acids	n.t.
Persistant Organic Pollutants (POP)	n.t. For indicator elements Br and Cl see chapter 3 [1)]
Poly Vinyl Chloride (PVC) vinyl chloride monomer in External Cables	n.d. see chapter 3 (no external cables)
Certain short and medium chained chlorinated paraffins	n.d.
REACH Authorised and Restricted Substances not otherwise listed	detected but not applicable to this article see chapter 5
REACH Authorised and Restricted Substances not otherwise listed - Entry 20 Organostannic compounds [6]	n.d.
REACH Authorised and Restricted Substances not otherwise listed - Entry 21 Di-µ-oxo-di-n-butylstanniohydroxyborane [6]/ Dibutyltin hydrogen borate C8H19BO3Sn (DBB)	Sn < 0.04 %[1)] (DBB < 0.1%) n.d.
REACH Authorised and Restricted Substances not otherwise listed - Entry 50 Polycyclic-aromatic hydrocarbons (PAH)	n.a. (no rubber or dark plastic materials that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonably foreseeable conditions of use)
REACH Candidate List Substances not otherwise listed	**detected** see chapter 5
Tris(2-chloroethyl)phosphate (“TCEP”)	n.d. see chapter 5
Tris(1,3-dichloro-2-propyl) phosphate (“TDCPP”)	For indicator element Cl see chapter 3 [1)]

[1] Substance may not be intentionally added.
[2] The concentration basis is based on the weight of the external cable jacket not including any conductors, sheathed conductors or ground jackets.
[3] Banned in packaging and as a fumigation technique for wood pallets and other wood packaging (includes methyl bromide).
[4] Controlled in surface preparations of products and parts intended to come into direct and prolonged contact with the skin. For Nickel, such products and parts must be evaluated by a materials testing laboratory in accordance with EN1811:1999 to validate that the Nickel ion release rate is < 0.5 µg/cm²/week. A supplier must provide a declaration of compliance with this standard along with their material disclosure for affected products and parts. If the Nickel reported will not come into direct and prolonged contact with the skin, the supplier must add the following comment to the Remarks column: “Nickel will not come into direct or prolonged contact with the skin.”
[5] Lithium perchlorate in coin cell batteries rated over 10mAh is allowed; this regulation also requires labeling of the end product
[6] Substance shall not be greater than the equivalent of 0.1 % by weight of tin.
[7] One isomer tested as representative for substance group
n.t.: Not tested
n.d.: Not detected
n.a.: Not applicable
[1)] Relevant compounds based on XRF Screening test results. For the speciation of the substances, further testing could be required
[2)] Not in surface preparations of products intended to come into direct and prolonged contact with the skin./
[3)] Depending on the actual nature of the compound there is a risk of REACH Annex XVII non compliance.

Following materials of concern according to Motorola 12G02897W18 rev. E were identified that exceed the thresholds according to Appendix C Section 5 for controlled and banned substances.

2.2 Items that only use Homogeneous Materials

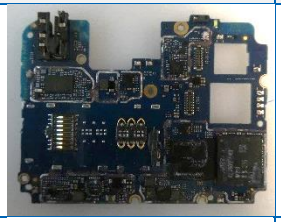
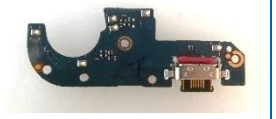
Sample Item	Description	Photo	Material of Concern (Concentration) [1)]	Does that rating make use of an Exemption	Sub Item level acceptance rating
FG2188-03	22-064 Motorola,Smart Phone Model #:XT2233 series, Housing frame, Golden screw inserts		**Pb** (1.9 ± 0.8 % = 19000 ± 8000 ppm)	*Pb in copper alloy Exemption 6(c)*	**Pass, exemption applicable**

[1)] Threshold limits are given in ppm, exemptions are in wt.% - ppm = mg/kg (w/w)

2.3 Phthalates in fractions

None

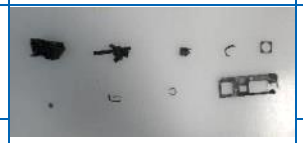
2.4 Non Homogeneous items that require attention on the sub item level

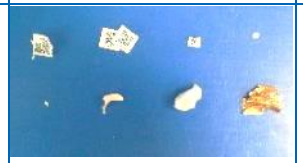
Sample Item	Description	Photo	Sub item	Material of Concern (Concentration) [1)]	Does that rating make use of an Exemption	Sub Item level acceptance rating
FG2173-14	22-064 Motorola,Smart Phone Model #:XT2233 series, Main PWB		PWB (100%)[2)]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FG2184-05	22-064 Motorola,Smart Phone Model #:XT2233 series, SUB PWB		PWB (100%)[2)]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FG2181-15	22-064 Motorola,Smart Phone Model #:XT2233 series, Battery, PWB		PWB (100%)[2)]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**

[1)] Threshold limits are given in ppm, exemptions are in wt.% - ppm = mg/kg (w/w)
[2)] Components have been identified that contain lead in ceramics. Due to expired exemption for lead in dielectric ceramic capacitors (of less than 125V AC or 250V DC) it has to be made sure that the exemption is really applicable to all single components identified to contain Lead - see x,y-board scan

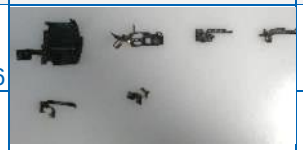
3 Material Assay Screening Results

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
22-064 Motorola,Smart Phone Model #:XT2233								
FG2155-00	22-064 Motorola,Smart Phone series, SIM Card holder		0.589	0.34%				
FG2155-01	22-064 Motorola, Smart Phone Model #:XT2233 series, SIM Card holder, Black plastic mold				49.92%	PC	Main: Al Si Ca; Other: P S Cl K Ti Fe Sr; Trace: Cr Mn Cu Rb Zr.	Reportable: Al Fe Si P;
FG2155-02	22-064 Motorola, Smart Phone Model #:XT2233 series, SIM Card holder, Metal frame				47.37%		Main: Cr Mn Fe Ni; Other: Si P S Cl K Ca Ti V Co Cu Mo Nd; Trace: Zn Ge As Sr Nb Sn Ba.	Reportable: Cr Fe Co Cu Nd; Controlled: Ni.
FG2155-03	22-064 Motorola, Smart Phone Model #:XT2233 series, SIM Card holder, Black rubber seal ring				2.55%	PUR	Main: S; Other: Al Si P Ca; Trace: Ti Ni Zn .	Reportable: Al Si P; Controlled: .
FG2155-04	22-064 Motorola, Smart Phone Model #:XT2233 series, SIM Card holder, Label				0.17%	PET 80% Acrylic 20%	Main: S; Other: Al Si P Cl Ti; Trace: Ni Rh.	Reportable: Al Si P;
FG2156-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 1-3		0.314	0.18%				
FG2156-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 1				58.92%	Acrylic	Main: Ca; Other: Al Si P S Cl K Zn; Trace: Ti Mn Cu Yb Bi.	Reportable: Al Zn;

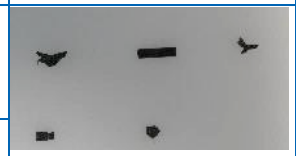
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2156-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 2				27.39%	PET 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ti Zn; Trace: Ca Mn Sb Yb.	Reportable: Al Zn Si P;
FG2156-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 3				13.69%	PUR	Main: Si S; Other: Al P Cl K Ca Ti Fe; Trace: Ni Zn Ba.	Reportable: Al Fe Si;
FG2157-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 1-13		0.504	0.29%				
FG2157-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 1				47.22%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Cl K Ca Ti Fe Bi; Trace: V Zn Sr Zr Sb.	Reportable: Al Fe Bi Si;
FG2157-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 2+9+10				23.21%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Zn; Trace: Ca Ti Fe Ni Cu Ga Sb.	Reportable: Al Si;
FG2157-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 3+13				4.96%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Cl K Ca Ti; Trace: Fe Ni Cu Zn Sb.	Reportable: Al Si;
FG2157-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 4				0.99%	PUR 60% PET 20% Acrylic 20%	Main: Al Si S; Other: P Cl K Ca Ti; Trace: Ni Zn.	Reportable: Al Si P;
FG2157-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 5				3.17%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P; Trace: Ti Cr Ni Ru Rh In.	Reportable: Al Si P; Controlled: .
FG2157-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 6+11				0.79%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Zn; Trace: Ti.	Reportable: Al Si P;
FG2157-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 7				1.39%	PUR 60% PET 20% Acrylic 20%	Main: Al Si S; Other: Cl Zn; Trace: K Ca Ti Co Sb.	Reportable: Al Co Zn Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2157-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 8				0.20%	PUR 60% PET 20% Acrylic 20%	Main: Al Si S; Other: P Cl K Ca Ti; Trace: Mn Ni Cu Zn.	Reportable: Al Si P;
FG2157-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 12				18.06%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca; Trace: Ti Fe Cu Zn Sb.	Reportable: Al Si;
FG2158-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue foil 1-4		0.759	0.43%				
FG2158-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue foil 1+2+4				49.80%	PET 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Cr Fe; Trace: Ti Mn Ni Sb Ba.	Reportable: Al Cr Fe Si P; Controlled: .
FG2158-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue foil 3				50.20%	PET 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Fe; Trace: Ti.	Reportable: Al Fe Si P;
FG2159-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Label 1-4, Humidity indicator, White glue strip, Pink thermal paste, Clear glue strips, Copper glue strips 1-3		0.665	0.38%				
FG2159-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Label 1				1.80%	Paper 80% Acrylic 20%	Main: Al Si Ca; Other: P S Cl K Ti Fe; Trace: Cr Mn Ni Cu Zn Sr.	Reportable: Al Fe Si;
FG2159-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Label 2+4				2.26%	PET 80% Acrylic 20%	Main: Al Ti; Other: Si P S; Trace: Mn Ni Cu Zn Sb.	Reportable: Al Si P;
FG2159-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Label 3				0.15%	PAI 40% PET 40% Acrylic 20%	Main: Al Si Ti; Other: P S Cl Ca; Trace: Cr Mn Ni Cu Zn Zr Nb Nd.	Reportable: Al Si P; Controlled: .

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2159-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Humidity indicator				0.15%	Paper 80% Acrylic 20%	Main: Al Si S Cl Ca Ti; Other: P K; Trace: Ni Zn Rh Pd .	Reportable: Al Si; Controlled: .
FG2159-05	22-064 Motorola, Smart Phone Model #:XT2233 series, White glue strip				0.15%	PVC 80% Acrylic 20%	Main: S Ca Ti; Other: Al Si P Cl K Zn; Trace: Mn Ni Sr Zr Rh .	Reportable: Al Zn Si; Controlled: .
FG2159-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Pink thermal paste				21.80%	Silicone	Main: Al Si Zn; Other: P K Ca Ti Fe W; Trace: Ga Ge Ba Hf.	Reportable: Al Fe Zn W Si P;
FG2159-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Clear glue strips				41.05%	PET 80% Acrylic 20%	Other: Al Si P S K Zn; Trace: Cl Ti Ni Cu Sb W.	Reportable: Al Zn Si;
FG2159-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Copper glue strips 1+2+3				32.63%	Metal 70% Acrylic 30%	Main: Cu; Other: Al Si P S Cl Ni Zn Yb; Trace: Ti Mn Ge Y Zr Nb Rh Ba Nd Bi U.	Reportable: Cu Zn; Controlled: Ni .
FG2160-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside cover		6.911	3.96%		Silicone 3% PC 94% PMMA 3%	Main: Al Si; Other: P S Cl Ca Ti V Zn; Trace: K Fe Cu Zr Nb In Pr Bi.	Reportable: Al Zn Si;
FG2161-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black screws, Silver screws 1+2		0.837	0.48%				
FG2161-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black screws				87.34%		Main: P S Fe Zn; Other: Al Si Cl K Ti Cr Mn Co Cu Mo Ba; Trace: Ge Zr Rh Pr.	Reportable: Cr Fe Co Cu Zn Ba;
FG2161-02	22-064 Motorola, Smart Phone Model #:XT2233 series,Silver screws 1+2				12.66%		Main: S Fe Zn; Other: Al Si P Cl K Cr Mn Co Cu Ge Ba; Trace: Ti Zr Nb Mo Sb Th.	Reportable: Cr Fe Co Cu Zn Ba;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2162-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 1-6		0.741	0.42%				
FG2162-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 1				68.83%		Main: Si S Fe Cu; Other: Al P Cl K Ca Ti Co Ni Zn Sr Zr Ba W; Trace: Mn.	Reportable: Al Fe Co Cu Zn Ba W Si P; Controlled: Ni.
FG2162-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 2				12.82%		Main: Cu; Other: Al Si P S Cl K Ca Ti Ni Zn Zr Ba Hf W; Trace: Cr Ga Sr Ru Rh.	Reportable: Al Cu Zn Ba W Si; Controlled: Ni.
FG2162-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 3				4.99%		Main: Al Si Cu; Other: P S Cl K Ca Ti Cr Zn; Trace: Ga Zr Rh.	Reportable: Al Cr Cu Zn Si P;
FG2162-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 4				5.40%		Main: Si Cu; Other: Al P S Cl K Ca Ti Ni Zn Zr Ba W; Trace: Cr Ga Sr Ru Rh Tl U.	Reportable: Al Cu Zn Ba W Si; Controlled: Ni.
FG2162-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 5				4.05%		Main: Al Si Cu; Other: P S Cl K Ca Ti Ni Zn Zr Ba Hf W; Trace: Cr Sr Ru Rh.	Reportable: Al Cu Zn Ba W Si P; Controlled: Ni.
FG2162-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 6				3.91%		Main: Al Si Cl Cu; Other: P S K Ca Ti Ni Zn Zr Ba Hf W; Trace: Sr Ru Rh.	Reportable: Al Cu Zn Ba W Si P; Controlled: Ni.
FG2163-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Camera cover		0.739	0.42%				
FG2163-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Camera cover				95.13%		Main: Si P S Cl K Ca Ti Fe Zn; Other: Co Ni Cu Rb Y Zr Nb Mo Sb Ba Pr Tl Bi Th U; Trace: Ge Br In Ce .	Reportable: Fe Co Cu Zn Rb Y Sb Ba Pr Tl Bi; Controlled: Ni.
FG2163-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Camera cover , Clear glue strip				4.87%	PET 80% Acrylic 20%	Main: Al S; Other: Si P Cl K Ti Cr Fe Ni Cu Zn Ga; Trace: V Mn.	Reportable: Al Cr Fe Si; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2164-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Light guide		0.102	0.06%				
FG2164-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Light guide				89.22%	PMMA	Other: Al Si P S; Trace: K Ti Ni.	Reportable: Al;
FG2164-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Light guide, Black shock pad				7.84%	PUR 60% PET 20% Acrylic 20%	Main: Al Si S; Other: P Cl Ti; Trace: V Mn Ni Zn Sb.	Reportable: Al Si P; Controlled: .
FG2164-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Light guide, Clear glue strip				2.94%	PET 80% Acrylic 20%	Main: Al; Other: Si P S Cl Ti Zn; Trace: Ni Cu.	Reportable: Al Zn Si P;
FG2165-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Glass lenses		0.328	0.19%				
FG2165-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Glass lenses				97.26%		Main: Al Si P K; Other: S Zr Sn; Trace: Cl Ti Fe Ga Ba Hf.	Reportable: Al Sn Si P;
FG2165-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Glass lenses, Black glue				2.74%	PEVA	Other: Al Si P S Cl K Ca Ti Fe Zn Ba; Trace: Mn Ni Cu Yb.	Reportable: Al Fe Zn Ba Si P; Controlled: .
FG2166-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame,		8.322	4.77%				
FG2166-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame				99.22%	PC 97% PMMA 3%	Main: Si; Other: Al P S Cl K Ti; Trace: Fe Cu Sn.	Reportable: Al Si P;
FG2166-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame, Mute buttons				0.59%	PC 97% PMMA 3%	Main: Si; Other: Al P S Cl K Ca Ti; Trace: Mn Fe Cu Zn.	Reportable: Al Si P;

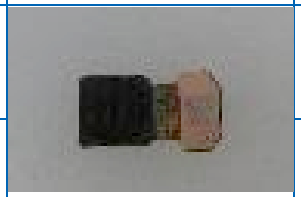
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. UD Appendix C relevant compounds [1)]
FG2166-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame, Mute buttons, Black rubber seal				0.19%	TPU	Other: Al Si P S Cl K Ca Ti; Trace: Ni Cu Zn.	Reportable: Al Si;
FG2167-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue strip 1-3, Black net 1+2		0.027	0.02%				
FG2167-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue strip 1				14.81%	PET 77% Acrylic 20% PMMA 3%	Main: Si S; Other: Al P Cl Ca Ti Ni Cu Zn; Trace: Fe .	Reportable: Al Cu Zn Si P; Controlled: .
FG2167-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue strip 2				22.22%	PET 80% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca Ti; Trace: Ni Cu Zn Sb.	Reportable: Al Si P; Controlled: .
FG2167-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue strip 3				18.52%	PET 77% Acrylic 20% PMMA 3%	Main: Al Si S; Other: P Cl K Ca Ti; Trace: Cr Ni Zn Rh .	Reportable: Al Si P; Controlled: .
FG2167-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Black net 1				18.52%	PET 47% PUR 30% Acrylic 20% PMMA 3%	Main: Al; Other: Si P S Ti Zn; Trace: Mn Cu Ga Nd.	Reportable: Al Si P;
FG2167-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Black net 2				25.93%	PET 50% PUR 40% Acrylic 10%	Other: Al Si P S Cl K Ca Ti; Trace: Cr Mn Ni Zn Rh Nd.	Reportable: Al Si P; Controlled: .
FG2168-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button		0.312	0.18%				
FG2168-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button, Black rubber cover				10.58%	Acrylic	Other: Al Si P S Cl K Ca Ti; Trace: V Zn Zr Ba.	Reportable: Al Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2168-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button, Label				0.64%	PAI 40% PET 40% Acrylic 20%	Main: Al Si Ti; Other: P S Cl K Ca; Trace: Cr Ni Zn Zr Nb Nd.	Reportable: Al Si P; Controlled: .
FG2168-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button, Flex				88.78%		Main: Al P S Fe Ni Cu; Other: Si Cl Ca Ti Cr Mn Co Zn Zr Sn Ba Hf Au; Trace: Ga Ge Mo Rh Ag I Pr Nd.	Reportable: Al Cr Fe Co Cu Zn Sn Ba Au Si P; Controlled: Ni.
FG2169-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera		0.258	0.15%				
FG2169-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Black plastic frame				13.95%	PA GF	Main: Si S Ca Ti; Other: Al P Cl K Fe Cu Zn Ba; Trace: Mn Ni Sr Zr.	Reportable: Al Fe Cu Zn Ba Si P;
FG2169-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Green glass				6.20%		Main: Al Si P S Ca Ti Cu Zn Ba; Other: K W; Trace: Cl Ni Sr Ru Rh Pd La Ce Pr.	Reportable: Al Cu Zn Ba W Si P;
FG2169-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Black plastic housing				17.05%	PC	Other: Al Si P S Cl K; Trace: Ca Ti Cu Zn Ba.	Reportable: Al Si;
FG2169-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Clear plastic lenses				13.18%	Polyolefine	Main: Si; Other: Al P S Cl K Ti; Trace: Ni.	Reportable: Al Si;
FG2169-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Foil rings				1.16%	PET	Main: Si S; Other: Al P Cl K Ca Ti; Trace: Mn Ni Cu Zn.	Reportable: Al Si P;
FG2169-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Black plastic ring				3.10%		Main: S Cu Zn; Other: Al Si P Cl Ta Bi; Trace: Ti Ni Ru Th.	Reportable: Al Cu Zn Ta Bi Si P; Controlled: .

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2169-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Flex				45.35%		Main: Al Si P S Ni Cu Au; Other: Cl Ti Zn Sr Zr Pd Sn Ba Hf; Trace: Ga Ag I Ce.	Reportable: Al Cu Zn Pd Sn Ba Au Si P; Controlled: Ni.
FG2170-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1		0.308	0.18%				
FG2170-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Black plastic frame				25.00%	Polyester GF	Main: Al Si P S K; Other: Cl Ca Fe Cu Zn Ba; Trace: Ti Mn Mo.	Reportable: Al Fe Ba Si P;
FG2170-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Green glass				6.17%		Main: Al Si P S Ca Ti Cu Zn Ba; Other: Cl K Sr; Trace: Ru Rh Ag In La Ce Pr.	Reportable: Al Cu Zn Ba Si P;
FG2170-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Black plastic housing				13.31%	PC	Main: Si; Other: Al S Cl K; Trace: P Ti Zn Ba.	Reportable: Al Si;
FG2170-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Clear plastic lenses				16.23%	Polyolefine	Main: Si; Other: Al P S K Ti; Trace: Ni Zn.	Reportable: Al Si;
FG2170-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Black plastic ring				1.95%	PC	Main: Si S; Other: Al P Cl Ca; Trace: Ti Cu Zn.	Reportable: Al Si P;
FG2170-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Foil rings				0.97%	PET	Main: Si S; Other: Al P Cl; Trace: Ti Cr Ni Cu Zn .	Reportable: Al Si; Controlled: .

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2170-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Flex				36.36%		Main: Al Si P S Ni Cu Au; Other: Cl Ca Ti Zn Ge Sr Zr Pd Sn Ba Hf; Trace: Ga I.	Reportable: Al Cu Zn Pd Sn Ba Au Si P; Controlled: Ni.
FG2171-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2		0.768	0.44%				
FG2171-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Copper glue strip				2.86%	Metal 70% Acrylic 30%	Main: Ni Cu; Other: Al Si P S Cl K Ti Zn Nd; Trace: Cr Mn Ge Y Zr Nb Ba Bi U.	Reportable: Cu Zn Nd; Controlled: Ni .
FG2171-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Metal cover				25.13%		Main: P S Fe Ni; Other: Si Cl K Ca Mn Cu Pr; Trace: Zn Sb Ba.	Reportable: Fe Cu Pr; Controlled: Ni.
FG2171-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 1				4.43%	Polyester GF	Main: Si S Ca; Other: Al P Fe Ba; Trace: K Ti Mn Ni Zn Sr.	Reportable: Al Fe Ba Si P;
FG2171-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Magnets				11.20%		Main: Fe Ni Cu Pr; Other: Al Si S Cl V Zn Ge Rb Y Zr Nb Mo Sn Ba Ce Bi Th U; Trace: Se Br Ru Rh Ag In Sb Te I .	Reportable: Fe Cu Rb Y Sn Ba Ce Pr Bi; Controlled: Ni.
FG2171-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 2				5.21%	Polyester GF	Main: Si S Ca; Other: Al P K Ti Mn Fe Ba; Trace: Ni Cu Zn Sr.	Reportable: Al Fe Ba Si;
FG2171-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 3				7.94%	PA GF	Main: Si S Ca Ti; Other: Al P Cl K Fe Ni Cu Zn Ba; Trace: Mn Sr Nb Ta.	Reportable: Al Fe Cu Zn Ba Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2171-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Green glass				2.34%		Main: Al Si P Ca Ti Zn Ba; Other: S Cl K Cu; Trace: Sr Ru Rh In La Ce Yb.	Reportable: Al Cu Zn Ba Si P;
FG2171-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Copper wire				1.69%		Main: S Cu; Other: Al Si P Cl K Ti Ni Zn; Trace: Ge Y Zr Nb In Ba W Bi U.	Reportable: Cu Zn;
FG2171-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Contact foils 1				1.04%		Main: S Ni Cu Zn; Other: Al Si P Cl K Ca Mn Fe Ba Au; Trace: Ti Ge Y Zr Sb.	Reportable: Fe Cu Zn Ba Au; Controlled: Ni.
FG2171-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Contact foils 2				0.52%		Main: Si S Ni Cu Sn; Other: Al P Cl K Ti Mn Nb; Trace: Zn Ge Y Zr Ba Bi U.	Reportable: Cu Sn; Controlled: Ni.
FG2171-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Metal frame				0.65%		Main: S Ni Cu Sn; Other: Al Si P Cl K Mn Zn Nb; Trace: Ti Ge Y Zr Cs Ba Bi U.	Reportable: Cu Zn Sn; Controlled: Ni.
FG2171-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Contacts				0.13%		Main: Si S Ni Cu Sn; Other: P Cl Ca Zn Sr Nb Ba; Trace: Ti Mn Ge Br Y Zr Rh Bi Th U.	Reportable: Cu Zn Sn Ba; Controlled: Ni.
FG2171-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic housing				6.12%	PC	Other: Al Si P S Cl K; Trace: Ti Cu Zn Pr.	Reportable: Al;
FG2171-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic ring				0.26%	PC	Main: S; Other: Al Si P K; Trace: Ti .	Reportable: Al Si; Controlled: .

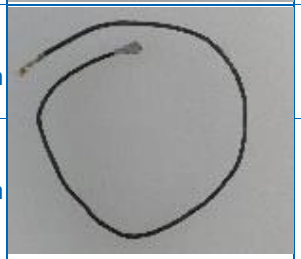
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2171-15	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Foil rings				0.39%	PET	Main: S; Other: Al Si P Cl Ti; Trace: Ni Cu Zn.	Reportable: Al Si;
FG2171-16	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black metal ring				3.26%		Main: S Cu Zn; Other: Al Si P Cl Ni Bi; Trace: K Ti Fe Ge Y Sb Ba U.	Reportable: Cu Zn Bi;
FG2171-17	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Clear plastic lenses				6.64%	Polyolefine	Main: Si; Other: Al P S K Ti; Trace: Cl.	Reportable: Al Si;
FG2171-18	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Flex				20.18%		Main: P S Ni Cu Au; Other: Al Si Cl Ti Ge Sr Pd Sn Ba; Trace: Cr Mn Ag I Nd.	Reportable: Al Cu Pd Sn Ba Au Si P; Controlled: Ni.
FG2172-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3		0.249	0.14%				
FG2172-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Black plastic frame				24.90%	Polyester GF	Main: Si S Ca; Other: Al P K Ti Mn Fe Sr Ba; Trace: .	Reportable: Al Fe Ba Si;
FG2172-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Black plastic housing				6.02%	PC	Other: Al Si P S; Trace: Cl Ti Ni Cu Zn .	Reportable: Al Si; Controlled: .
FG2172-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Green glass				2.41%		Main: Al Si S; Other: K Ti Zr; Trace: Co Ni Hf.	Reportable: Al Co Si; Controlled: .

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2172-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Black plastic ring				0.80%	PC	Main: Al S; Other: Si Cl Ti; Trace: Zn.	Reportable: Al Si;
FG2172-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Clear plastic lenses				4.82%	Polyolefine	Main: Si; Other: Al S K Ti; Trace: .	Reportable: Al Si;
FG2172-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Foil rings				0.40%	PET	Main: Al Si P S; Other: Cl K; Trace: Ti Co Ni Cu Zn.	Reportable: Al Co Si P;
FG2172-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Flex				60.64%		Main: Al Si S Cu Sn; Other: P Cl Ca Ti Fe Co Ni Br Sr Zr Ag Ba Hf W Au; Trace: Cr Zn Ga Ge Mo.	Reportable: Al Fe Co Cu Ag Sn Ba W Au Si P; Controlled: Ni.
FG2173-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB		14.670	8.41%				
FG2173-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal shielding 1				20.99%		Main: Ni Cu Zn; Other: Al Si P S Cl Mn Fe Ag Sn Nd; Trace: K Cr Ga Ge As Se Y Zr Rh Ba Bi U.	Reportable: Fe Cu Zn Ag Sn Nd; Controlled: Ni.
FG2173-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal shielding 2				5.26%		Main: Si Ni Cu Zn; Other: P S Cl Cr Mn Fe Ag Sn; Trace: Ti Ge Y Zr Ba Nd Bi U.	Reportable: Cr Fe Cu Zn Ag Sn; Controlled: Ni.
FG2173-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal shielding 3				6.27%		Main: Cr Mn Fe Ni; Other: Si P S Cl K Ca V Co Cu Mo; Trace: Zn Ge As Rh Sn Ba La Ce Pr Tl.	Reportable: Cr Fe Co Cu; Controlled: Ni.
FG2173-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal clamp				0.35%		Main: Cr Mn Fe Ni; Other: Si P S Cl K V Co Cu Zn Mo Nd; Trace: Ca Sn Sb Ba U.	Reportable: Cr Fe Co Cu Zn Nd; Controlled: Ni.

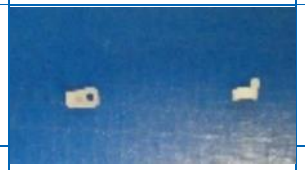
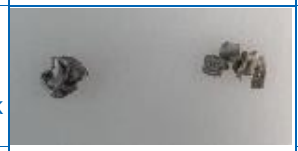
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2173-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal cover				4.18%		Main: Cr Fe Ni; Other: Si P S K Ca V Mn Co Cu Mo; Trace: Cl Zn Ge As Sn Sb Ba Au.	Reportable: Cr Fe Co Cu; Controlled: Ni.
FG2173-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal plate 1				0.70%		Main: S Cr Fe Ni; Other: Si P Cl K Ca V Mn Co Cu Zn Mo; Trace: Ge Nb Sn Sb Cs Ba Nd Th U.	Reportable: Cr Fe Co Cu Zn; Controlled: Ni.
FG2173-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metal plate 2				0.16%		Main: Cr Mn Fe Ni; Other: Si P S Cl K Ca V Co Cu Zn Nd; Trace: Ge Mo Ba U.	Reportable: Cr Fe Co Cu Nd; Controlled: Ni.
FG2173-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Small metal shielding				0.03%		Main: P S Ni Cu Zn; Other: Al Si Cl Ag Sn; Trace: Ti Y Zr Pd Sb Ba La Bi U.	Reportable: Cu Zn Ag Sn; Controlled: Ni.
FG2173-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Black rubber cover 1				0.89%	Silicone	Main: Si; Other: P S K Ca Zn; Trace: Ti Fe Zr.	Reportable: Zn Si;
FG2173-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Black rubber cover 2				0.07%	Silicone	Main: Si S; Other: Al P K Zn; Trace: Cl Ti.	Reportable: Al Si;
FG2173-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Metallic glue strip				0.01%	PET 80% Acrylic 20%	Main: Al Si Ni Cu; Other: P S Cl K Ca Ti Fe Zn Hf; Trace: Cr Ga Rh Sn Ba Nd.	Reportable: Al Fe Cu Zn Si P; Controlled: Ni .
FG2173-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Humidity indicator				0.01%	Paper 80% Acrylic 20%	Other: Al Si P S Ca Ti Fe Ni Cu Zn; Trace: Sr Ru Rh In Ba.	Reportable: Al Fe Cu Zn Si; Controlled: Ni.
FG2173-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Pink thermal paste				2.75%	Silicone	Main: Al Si Zn; Other: P S K Ca Fe; Trace: Ti Cu Ga Ge Sn Ba Hf W.	Reportable: Al Fe Zn Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2173-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB				58.34%		See x,y-Scan Results in Chapter 4	**Controlled: Pb.**
FG2174-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker		1.008	0.58%				
FG2174-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Cloth nets 1				0.10%	PET 80% Acrylic 20%	Main: Al S; Other: Si Cl Ti Fe Ni Zn; Trace: Cr Cu Rh.	Reportable: Al Fe Si; Controlled: Ni.
FG2174-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Cloth net 2				0.10%	PET 80% Acrylic 20%	Main: Al Si S; Other: P Cl K Ca Ti Fe Zn; Trace: Ni Cu Rh Sb.	Reportable: Al Fe Zn Si; Controlled: .
FG2174-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Black shock pad				0.50%	PUR 60% PET 20% Acrylic 20%	Main: Al S; Other: Si P Cl K Ca Ni Cu Zn; Trace: Ti Fe .	Reportable: Al Zn Si P; Controlled: Ni .
FG2174-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Blue glue				0.10%	PUR	Main: Si S; Other: Al P Cl; Trace: Ti Fe Ni Cu Zn Sn.	Reportable: Al Si P;
FG2174-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Metal cover				19.94%		Main: P Fe Ni; Other: Al Si S K Ca Mn Cu Zn; Trace: Cl Cr As Y Ba Nd.	Reportable: Fe Cu Zn; Controlled: Ni.
FG2174-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Magnets 1				18.06%		Main: Fe Zn Pr; Other: Al Si S Cl Co Cu Ga Ge Y Zr Nb Mo Yb U; Trace: V Ru Rh In Sn Sb Bi Th.	Reportable: Fe Co Cu Zn Y Pr;
FG2174-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Metal plate				6.94%		Main: P Fe Ni; Other: Al S Cl K Ca Mn Zn Bi; Trace: Cr Cu Ba Pr Nd.	Reportable: Fe Bi; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2174-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Magnet 2				17.06%		Main: Fe Zn Pr; Other: Al Si S Cl Co Cu Ga Ge Y Zr Nb Mo Yb U; Trace: V Se Ru Rh In Sn Sb Bi Th.	Reportable: Fe Co Cu Zn Y Pr;
FG2174-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Metal frame 1				18.06%		Main: P Ni Cu; Other: Al Si S Cl K Nd Bi; Trace: Cr Mn Fe Ga As Se Y Zr Rh Ba U.	Reportable: Cu Nd Bi; Controlled: Ni.
FG2174-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Membrane				0.69%	Metal 70% PPS/PC 20% Acrylic 10%	Main: Al; Other: Si P S Ca Ti Fe Cu; Trace: V Mn Ni Zn Ga.	Reportable: Al Fe Si;
FG2174-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Copper wire				2.48%		Main: Si Cu; Other: P S Cl K Ni Zn Ag; Trace: Ti Rh Ba.	Reportable: Cu Zn Ag;
FG2174-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Pink glue				0.10%	PUR	Main: S; Other: Al Si P Cu; Trace: Cl Ti Ni Zn.	Reportable: Al Cu Si;
FG2174-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Black plastic frame				3.27%	PA GF	Main: Al Si P Ca; Other: S Cl K Ti Fe; Trace: Cr Mn Ni Cu Zn Sr Zr Ba.	Reportable: Al Fe Si P;
FG2174-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Contacts				0.20%		Main: Si P S Ca Ni Cu Sn; Other: Cl K Ti Cr Co Zn Ge Au; Trace: As Sr Y Zr Nb Sb Ba U.	Reportable: Cr Co Cu Zn Sn Au; Controlled: Ni.
FG2174-15	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Metal frame 2				7.14%		Main: Si Fe Ni; Other: Al P S Cl K Ca Cu Zn; Trace: Ti Mn Y Ba Th.	Reportable: Fe Zn; Controlled: Ni.
FG2174-16	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Flex 1				0.89%		Main: Al P S Ca Cu; Other: Si Cl Co Sn; Trace: Ti Cr Ni Zn Ta.	Reportable: Al Co Cu Sn Si P;

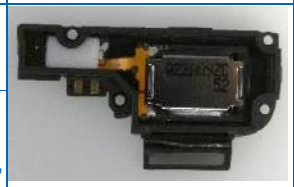
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2174-17	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Flex 2				4.37%		Main: Al P S Ni Cu Au; Other: Si Cl Ca Fe Zn Ge Zr Sn Hf W; Trace: Ti Ga Ru Rh Tl.	Reportable: Al Fe Cu W Au Si P; Controlled: Ni.
FG2175-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Button flex		0.193	0.11%			Main: Al Si P S Fe Ni Cu; Other: Cl K Ca Ti Cr Mn Co Zn Zr Mo Ag Sn Hf Au; Trace: Ga Ge Ru Ba.	Reportable: Al Cr Fe Co Cu Zn Ag Sn Au Si P; Controlled: Ni.
FG2176-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable		0.154	0.09%				
FG2176-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Black outer cable jacket				18.83%	PTFE	Main: S; Other: Al Si P Ti Cu Sn; Trace: Cl Ni Zn.	Reportable: Al Cu Si P;
FG2176-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Silver wire 1				32.47%		Main: Cu Sn; Other: Al Si P S Cl K Zn; Trace: Ge Y Zr Nb Ba Yb W Bi U.	Reportable: Cu Zn Sn;
FG2176-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, White cable jacket				17.53%	PTFE	Other: Al Si P S K Ti; Trace: V Ni Zn.	Reportable: Al;
FG2176-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Silver wire 2				8.44%		Main: Cu Ag; Other: Al Si P S Cl Ca Zn Sn; Trace: Ti Ni Ge Sr Y Zr Nb Rh Sb Ba Nd Yb W Bi U.	Reportable: Cu Zn Ag Sn;
FG2176-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Golden contact housing				20.13%		Main: P S Ni Cu Sn; Other: Al Si Cl Ca Ti Zn Ag I Au; Trace: Ge Zr Nb Sb.	Reportable: Cu Zn Ag Sn Au; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2176-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Black plastic inlay				1.95%	PP	Main: Al Si Ca; Other: P S Cl K Ti Fe Ni Cu Zn; Trace: V Cr Mn Sn Nd.	Reportable: Al Fe Cu Si P; Controlled: Ni.
FG2176-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Golden contacts				0.65%		Main: Si S Ni Cu Sn Au; Other: P Cl K Ca Ge; Trace: Ti Zr Nb Sb Ba La Pr.	Reportable: Cu Sn Au; Controlled: Ni.
FG2177-00	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable		0.164	0.09%				
FG2177-01	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, White outer cable jacket				16.46%	PTFE	Main: Ti; Other: Al Si S Cl K Cu; Trace: V Ni.	Reportable: Al Si;
FG2177-02	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, Silver wire 1				35.37%		Main: Cu Sn; Other: Al Si P S Cl K Zn; Trace: Zr Nb Cs Ba La Ce Nd Yb Bi.	Reportable: Cu Zn Sn;
FG2177-03	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, White cable jacket				20.12%	PTFE	Other: Al Si P S Ti Cu Ag; Trace: Ni Zn .	Reportable: Al Cu Ag Si; Controlled: .
FG2177-04	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, Silver wire 2				5.49%		Main: S Cu Ag; Other: Al Si P Cl Ni Zn Sn; Trace: Ti Ge Y Zr Nb Rh Sb Cs Ba Yb W U.	Reportable: Cu Zn Ag;
FG2177-05	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, Golden contact housing				20.12%		Main: Si Ni Cu Sn; Other: Al P S Cl Ti Zn Ge Ag Au ; Trace: Mn Zr Nb Ba Nd.	Reportable: Cu Zn Ag Sn Au; Controlled: Ni .

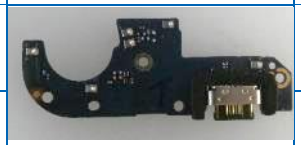
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2177-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Whitec onnection cable, Black plastic inlay				1.83%	PP	Main: Al S; Other: Si P Cl Ca Fe Ni; Trace: Ti Cu Zn.	Reportable: Al Fe Si;
FG2177-07	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, Golden contacts				0.61%		Main: P S Cl Ni Cu Sn Au; Other: Si K Ca Ge Ba; Trace: Ti Se Sr Y Zr Nb Rh Sb.	Reportable: Cu Sn Ba Au; Controlled: Ni.
FG2178-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Clear plastic insert, Clear rubber insert		0.015	0.01%				
FG2178-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Clear plastic insert				46.67%	PMMA	Main: Si S; Other: Al Cl K Ca Ti Ba; Trace: Zn Sr.	Reportable: Al Ba Si;
FG2178-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Clear rubber insert				53.33%	Silicone	Main: Si S; Other: Al P Ca Ti Zn; Trace: Cl Ni Ag .	Reportable: Si P; Controlled: .
FG2179-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Metallic glue strip 1+2, Metallic shock pads 1-3		0.093	0.05%				
FG2179-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Metallic glue strip 1+2				68.82%	PET 80% Acrylic 20%	Main: Al Ni Cu; Other: Si P S Cl K Ca Ti Zn Hf; Trace: Ga Sb.	Reportable: Al Cu Si; Controlled: Ni.
FG2179-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Metallic shock pads 1+2+3				31.18%	PUR 60% PET 20% Acrylic 20%	Main: Al Ni Cu; Other: Si S Cl K Ti Zn Hf; Trace: Ca Cr Fe Ga Sn Sb.	Reportable: Al Cu Zn Si; Controlled: Ni.

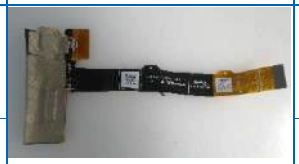
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2180-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Gray shock pad		0.964	0.55%		PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Cl K Ca; Trace: Ti Ni Zn Br.	Reportable: Al Si;
FG2181-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery		66.181	37.92%				
FG2181-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Outer metal foil					Metal 70% PP 15% PA 15%	Main: Al; Other: Si P S Cl K Ti Cr Fe Co; Trace: Ca V Mn Ni Cu Zn Ga.	Reportable: Al Cr Fe Co Si;
FG2181-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Contact strip 1						Main: Al; Other: Si P S Ti Fe Co Cu; Trace: Ca V Cr Mn Ni Zn Ga.	Reportable: Al Fe Co;
FG2181-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Contact strip 2						Main: P S Ni; Other: Al Si Ca Ti Cr Fe Co Ta W Tl; Trace: V Mn Ga Ge.	Reportable: Al Cr Fe Co Ta W Tl; Controlled: Ni.
FG2181-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Clear glue strips					PET 80% SB 20%	Main: P Co; Other: Al Si S Cl K Ca Mn; Trace: Ti V Cr Cu Zn.	Reportable: Al Co Si P;
FG2181-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Blue glue strips					PET 80% SB 20%	Main: P S; Other: Al Si Cl K Ca Mn Co Cu; Trace: Ti V Cr Ni Zn.	Reportable: Al Co Cu Si P;
FG2181-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Green glue strips					PET 80% Acrylic 20%	Main: P S Ti Co Ni; Other: Al Si Cl K Ca Mn Cu Zn Ta W; Trace: Cr Fe Zr Nb Sb.	Reportable: Al Co Cu Zn Ta W Si P; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2181-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Copper foil						Main: Cu; Other: Al Si P S Co Ni Zn; Trace: Ca Ti Cr Ga Ge As Br W Bi.	Reportable: Al Co Cu Zn; Controlled: Ni.
FG2181-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Silver foil						Main: Al Co; Other: Si P Ti Fe Cu; Trace: S Ca V Mn Ni Zn Ga.	Reportable: Al Fe Co Cu;
FG2181-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, White foil					PE	Main: Al P S Co; Other: Si K Ca Mn Cu Zn; Trace: Cl Ti V Cr.	Reportable: Al Co Cu Zn Si P;
FG2181-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Carbon coating						Main: P Co; Other: Al Si S K Ca Ti Mn Cu Zn; Trace: V Cr Hf.	Reportable: Al Co Cu Zn P;
FG2181-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Yellow glue strips					PAI 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Mn Co; Trace: Ti V Cr Ni Zn.	Reportable: Al Co Si;
FG2181-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black glue strip					PAI 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Ti Mn Co Zn; Trace: V Cr Fe Ni Cu.	Reportable: Al Co Si;
FG2181-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black rubber strip					Silicone 60% PET 20% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Mn Co Zn; Trace: Ti V Cr Fe Ni Cu Ga Mo Sb W.	Reportable: Al Co Zn Si P;
FG2181-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, White glue strip					PET 80% Acrylic 20%	Main: Si Ti; Other: Al P S Cl K Ca V Mn Co; Trace: Fe Ni Cu Zn Zr Nb Mo.	Reportable: Al Co Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2181-15	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, PWB						See x,y-Scan Results in Chapter 4 Main: Al P S Ti Cu; Other: Si Cl Ca Zr Ag Sn Ba; Trace: Cr Zn Ga Sr Ru Rh W Au Tl Pb Bi U.	Reportable: Al Cu Ag Sn Ba Si P; **Controlled: Pb.**
FG2181-16	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black plastic cover					PC	Main: P; Other: Al Si S K; Trace: Cl Ca Ti V Cr Mn Co Ni.	Reportable: Al Co Si P;
FG2182-00	22-064 Motorola, Smart Phone Model #:XT2233 series, PWB connection flex		0.482	0.28%			Main: Al Si P Cu; Other: S Cl K Ca Fe Ni Zn Zr Ag Sn Ba Au; Trace: Ti Cr Mn Co Ga Ge Sr Ru Rh La Nd W Tl Bi.	Reportable: Al Fe Co Cu Ag Sn Ba Au Si P; Controlled: Ni.
FG2183-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker		2.525	1.45%				
FG2183-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Black plastic housing				40.83%	PC	Main: Al Si P Ca; Other: S Cl K Ti Fe; Trace: V Cr Mn Cu Zn Br Sr Zr Nd.	Reportable: Al Fe Si P;
FG2183-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Metal cover				17.98%		Main: P Fe Ni; Other: Al Si S K Cr Mn Co Cu Zn; Trace: Cl Ca Ti As Y Mo Sn Ba Nd.	Reportable: Cr Fe Co Cu Zn; Controlled: Ni.
FG2183-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Magnet				23.33%		Main: Fe Zn Pr; Other: Al Si S Cl Co Cu Ga Ge Y Zr Nb Mo Nd Yb U; Trace: V Cr Se Rb Ru Rh In Sn Bi Th.	Reportable: Fe Co Cu Zn Y Pr Nd;
FG2183-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Metal plate				8.67%		Main: Fe Zn; Other: Al Si S Cl K Cr Mn Co Cu; Trace: P Ge Zr Mo Rh Ba Bi.	Reportable: Cr Fe Co Zn;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2183-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Contact plates				1.90%		Main: Si P S Cr Fe Ni Cu Sn Au; Other: Al Cl K Ca V Mn Zn Ge Mo W; Trace: Ba U.	Reportable: Cr Fe Cu Zn Sn W Au; Controlled: Ni.
FG2183-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Black shock pad 1				0.87%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: S Cl K; Trace: Ti Ni Cu Zn Sb.	Reportable: Al Si;
FG2183-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Black shock pad 2				0.51%	PUR 60% PET 17% Acrylic 20% PMMA 3%	Main: Si S; Other: Al P Cl K Ca Ti; Trace: Ni Cu Zn.	Reportable: Al Si P;
FG2183-08	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, White foam				0.12%	Paper 80% Acrylic 20%	Main: Al Si S; Other: P Cl K Ca; Trace: Ti Ni Cu Zn Sn.	Reportable: Al Si P; Controlled: .
FG2183-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, White cloth strip				0.04%	PET 80% Acrylic 20%	Other: Al Si P S Ti Ni Zn; Trace: Mn Cu Ru Rh.	Reportable: Al Zn Si P; Controlled: Ni.
FG2183-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Copper wire				2.93%		Main: Si Cu Ag; Other: Al P S Cl Ni Zn; Trace: Ti Ge Zr Nb Rh In Sb Ba W.	Reportable: Cu Zn Ag;
FG2183-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Contacts				0.79%		Main: Si S Cr Fe Ni Cu Sn; Other: P Cl Ca Mn Co Zn Mo Ag Cs Ba W Th U; Trace: Ge As Y Zr Nb Rh Bi.	Reportable: Cr Fe Co Cu Zn Ag Sn Ba W; Controlled: Ni.
FG2183-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Membrane				1.15%	Metal 50% PPS/PC 30% Fluoropolymer 10% Acrylic 10%	Main: Si S; Other: Al P Cl K Ca Ti V Fe Cu Zn; Trace: Mn Ni Ga.	Reportable: Al Fe Cu Si;
FG2183-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Clear glue				0.28%	PUR	Main: Al Si P S; Other: Cl K Ca Fe Ni Cu Zn; Trace: Ti Cr.	Reportable: Al Fe Si P; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2183-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Flex				0.59%		Main: S Cu; Other: Al Si P Zn Zr Sn; Trace: Cl Ti Ni Rh.	Reportable: Al Cu Si;
FG2184-00	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB		1.114	0.64%				
FG2184-01	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB, Black rubber cover				8.80%	Silicone	Main: Si S; Other: Al P Zn; Trace: Ti Ni.	Reportable: Al Si;
FG2184-02	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB, Humidity indicator				0.09%	Paper 80% Acrylic 20%	Other: Al Si P S Ca Ti Ni Cu Zn; Trace: Sr Ru Rh In Ba.	Reportable: Al Zn Si P; Controlled: Ni.
FG2184-03	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB, Metal cover				2.78%		Main: Ni Cu Zn; Other: Al Si P S Cl Mn Fe Sn; Trace: Ti Cr Ge Zr Rh Ag Cs Ba Nd.	Reportable: Fe Cu Zn Sn; Controlled: Ni.
FG2184-04	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB, Metal shielding				0.45%		Main: P S Ni Cu Zn; Other: Al Si Cl Ag Sn Ba; Trace: Ca Ge As Y Zr Nb Rh Sb La Bi U.	Reportable: Cu Zn Ag Sn Ba; Controlled: Ni.
FG2184-05	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB				87.88%		See x,y-Scan Results in Chapter 4	**Controlled: Pb.**
FG2185-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call		1.061	0.61%				
FG2185-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Metallic glue strip				0.85%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Zn Hf; Trace: Ti Cr Mn Fe Ga Sb.	Reportable: Al Cu Zn Si P; Controlled: Ni.
FG2185-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Black shock pad				1.32%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca Ni; Trace: Ti Cr Fe Zn Sb.	Reportable: Al Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2185-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Metal cover				23.19%		Main: Si P Fe Ni; Other: S Cl K Ca Mn Cu Zn; Trace: Ti Cr Mo.	Reportable: Fe Cu Zn; Controlled: Ni.
FG2185-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Magnet				25.73%		Main: Fe Ni Cu Ce Pr; Other: Al Si S Cl Rb Y Zr Nb Mo Th U; Trace: V Zn Ge Br Rh In Sn Sb Bi.	Reportable: Fe Cu Rb Y Ce Pr; Controlled: Ni.
FG2185-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Metal pin				0.47%		Main: P S Cr Fe; Other: Si Cl Ca Co Ni Cu Zn Mo Ba Th U; Trace: Mn As Y Zr Nb Rh In Sb Tl Bi.	Reportable: Cr Fe Co Cu Zn Ba; Controlled: Ni.
FG2185-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, PWB				31.10%		Main: Al Si S Ca Ti Ni Cu Au; Other: P Cl Fe Sr Sn Ba W; Trace: Ge Zr I.	Reportable: Al Fe Cu Sn Ba W Au Si P; Controlled: Ni.
FG2185-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Flex				17.34%		Main: P Fe Ni Cu; Other: Al Si S Ca Cr Mn Co Ge Sn Au; Trace: Cl K Ti Zr Ru Rh Cd Sb Nd Th U.	Reportable: Al Cr Fe Co Cu Sn Au P; Controlled: Ni.
FG2186-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex		1.168	0.67%				
FG2186-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Glue strip				6.34%	PUR 60% PET 20% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Cu; Trace: Ti Fe Ni Zn.	Reportable: Al Si P;
FG2186-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Metallic glue strip 1				1.03%	Acrylic	Main: S Ni Cu; Other: Al Si P Cl Ca Ti Fe Zn Hf; Trace: Pd Sb.	Reportable: Al Fe Cu Zn Si P; Controlled: Ni.
FG2186-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Metallic glue strip 2				3.68%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Ti Zn Hf; Trace: Mn Fe Ga Sb Nd.	Reportable: Al Cu Zn Si; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2186-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Black glue strip				1.11%	PET 80% Acrylic 20%	Main: Si Ni Cu; Other: Al P S Cl K Ca Ti Fe Zn Hf; Trace: Sn Sb.	Reportable: Al Fe Cu Si; Controlled: Ni .
FG2186-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Yellow glue strip				0.34%	PAI 80% Acrylic 20%	Main: Si P; Other: Al S Cl; Trace: Ti Ni Cu Zn Rh .	Reportable: Al Si P; Controlled: .
FG2186-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex				87.59%		Main: Si P Ni Cu Ba Au; Other: Al S Cl K Ca Ge Ag Sn; Trace: Ti Mn Ga Pd I Cs La Ce Pr Nd Tl.	Reportable: Al Cu Ag Sn Ba Au Si P; Controlled: Ni.
FG2187-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Front glass with LCD		33.933	19.44%			Main: Al Si Ca Sr; Other: S Cl K Ti Fe Zr Mo Ag Sn Te Ba; Trace: Cu Zn Ga In I Hf Bi Th.	Reportable: Al Fe Ag Sn Te Ba Si;
FG2188-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Housing frame		28.051	16.07%				
FG2188-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Housing frame, Metal plate				85.16%		Main: Al Si Cu; Other: P S Cl K Ca Ti Cr Mn Fe Zn Ga; Trace: V Ni Zr Sn Ce Yb.	Reportable: Al Cr Fe Cu Zn;
FG2188-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Housing frame, Black plastic cover				14.21%	PC	Main: Al Si Ca; Other: P S K Ti Fe; Trace: Zn Sr Zr Ba.	Reportable: Al Fe Si;

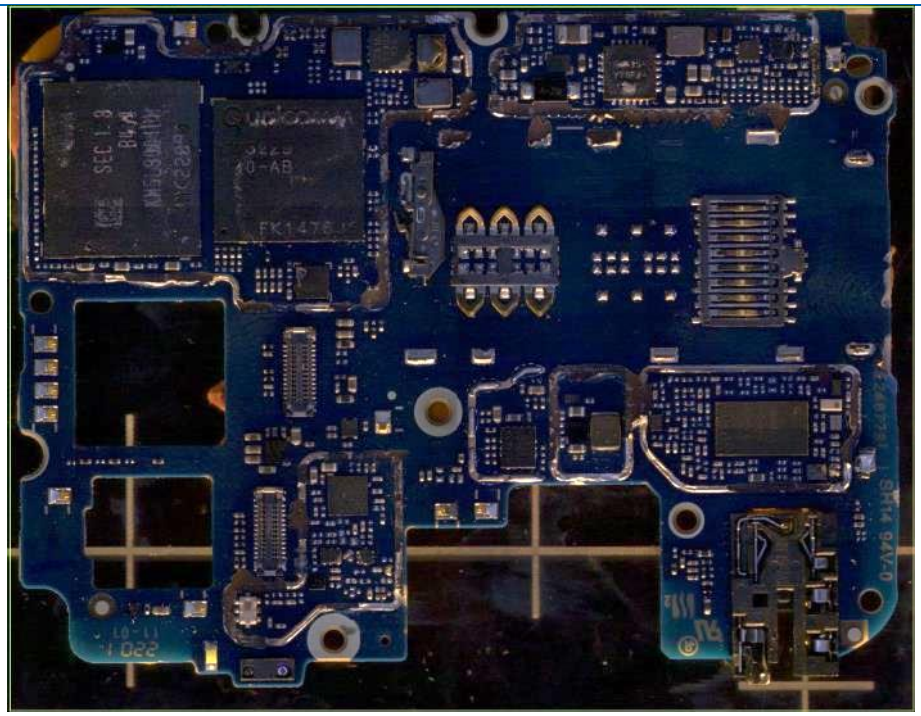
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FG2188-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Housing frame, Golden screw inserts				0.62%		Main: Cu Zn Pb; Other: Al Si P S Cl Fe Ni Sn Sb Nd Bi; Trace: Ti Mn Y Zr Ag Cs Ba.	Reportable: Fe Cu Zn Sn Sb Nd Bi; **Controlled: Ni Pb**.

[1)] Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required.
, Cr and Pb are also REACH relevant substances
* indicates potential presence of Brominated Flame Retardants (other than PBBs or PBDEs)
** Sample tested for CrVI by colorimetric method.

The determinable concentration of DEHP/BBP/DBP/DIBP may be > 0.1% by weight in homogeneous materials for material with a weight below 0.02 g.
Only confirmed positive findings of materials of concern are reported – other (RoHS) substances are below detection limits for each sample. Detection limits for single samples are available on request.

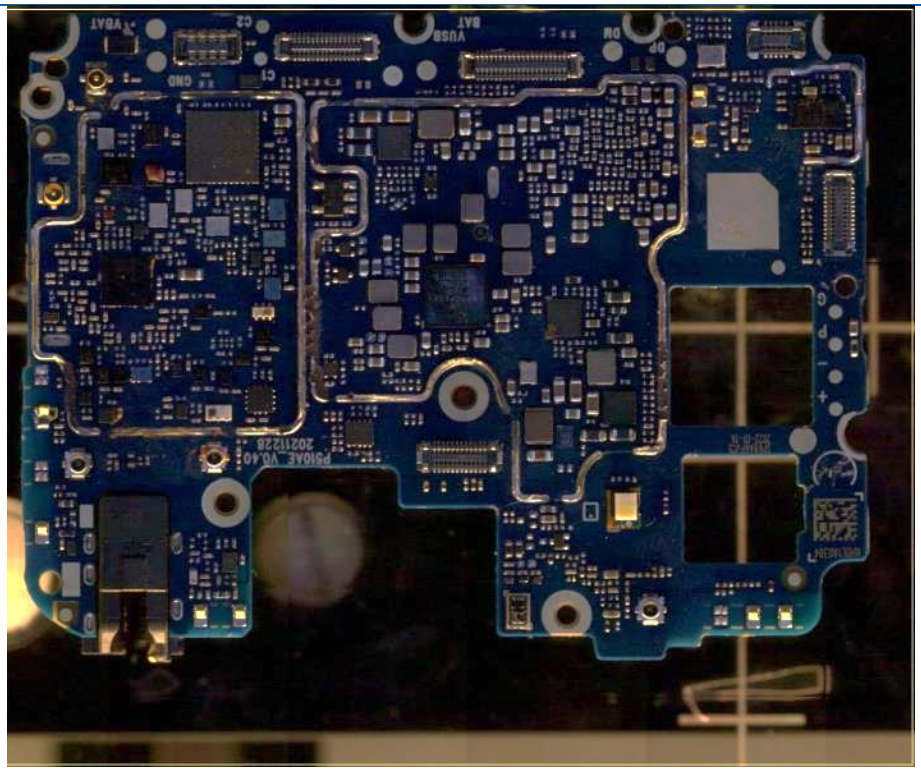
4 Results EDXRF Scan

Results x,y Scan Sample FG2173-14 Top



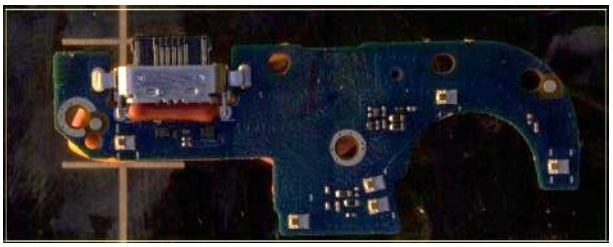
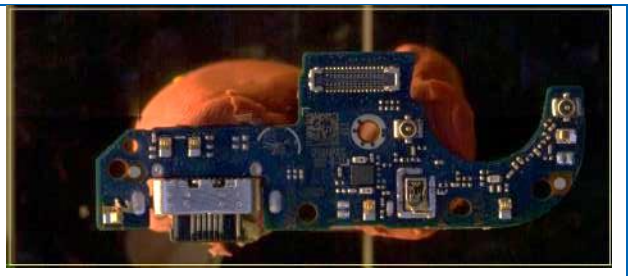
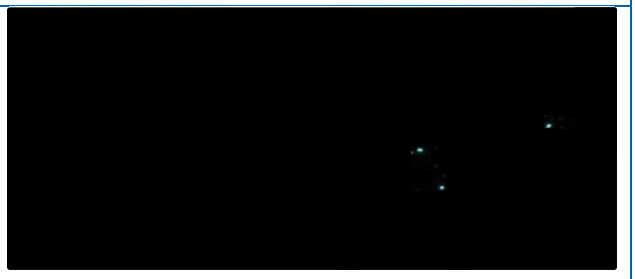
Bromine
Not detected
Lead

Results x,y Scan Sample FG2173-14 Bottom

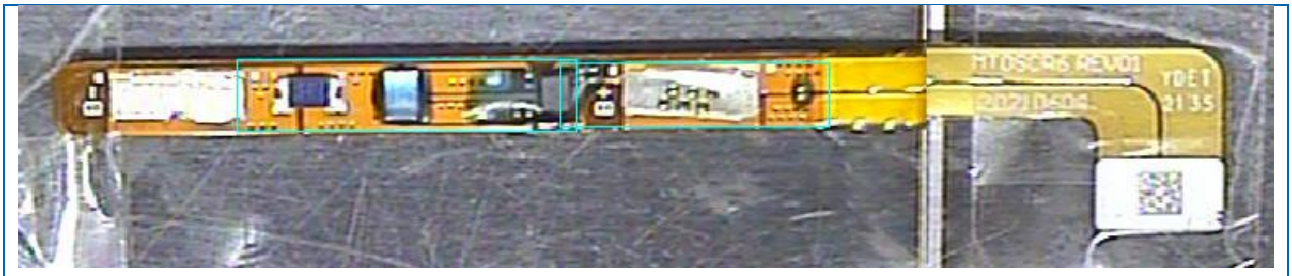


Bromine
Not detected
Lead

Results x,y Scan Sample FG2184-05

	
Bromine	
Not detected	Not detected
Lead	
	

Results x,y Scan Sample FG2181-15 Top



Bromine

Not detected

Lead

5 Summary REACH 1907/2006/EC screening results

According to §33 Reach information needs to be provided within the supply chain if the concentration of a SVHC substance calculated for the article is higher than 0.1 %. The table below summarizes the organic substances detected with concentrations > 0.1% calculated for the articles according to SVHC substance list dated July 08th, 2021, Annex XIV List dated February 07th, 2020 and Annex XVII List dated December 15th, 2021.

Samples summarized in Chapter 7 were selected based on a risk assessment. The samples were investigated for selected organic parameters as listed in Chapters 5.2 and 5.3. The detectable concentration of REACH substances varies depending on the substance, the fraction composition and the sample weight.

For inorganic parameters please refer to Chapter 2 and Chapter 3. Chemical elements identified in the XRF Screening could represent REACH substances as listed in Chapters 5.2. and 5.3. For the speciation of these substances, further testing could be required.

5.1 Identified SVHC, Annex XIV and Annex XVII substances in Article

The following substances were detected in the samples.

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1] (% w/w)	Substance concentration in article[2] (% w/w)	SVHC > 0.1% Reporting required?[2] (Y/N/Risk)
Smart Phone Model XT2223	FI1097	Decamethylcyclopentasiloxane (D5)	-	Decamethylcyclopentasiloxane (D5) (Entry 70)	0.008	<0.001	**N**
		-	-	Diisocyanates (Entry 74)	0.066	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.291	<0.001	**N**
	FI1098	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.008	<0.001	**N**
		-	-	Diisocyanates (Entry 74)	0.015	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.185	<0.001	**N**
	FI1099	-	-	Diisocyanates (Entry 74)	0.008	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.061	<0.001	**N**
	FI1004	-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.001	<0.001	**N**
	FI1005	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.005	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.011	<0.001	**N**

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1)] (% w/w)	Substance concentration in article[2)] (% w/w)	SVHC > 0.1% Reporting required?[2)] (Y/N/Risk)
Smart Phone Model XT2223	FI1006	-	-	Diisocyanates (Entry 74)	0.055	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.023	<0.001	**N**
	FI1007	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	-	-	0.001	<0.001	**N**
		-	-	Diisocyanates (Entry 74)	0.019	<0.001	**N**
	FI1008	-	-	Diisocyanates (Entry 74)	0.009	<0.001	**N**
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.001	<0.001	**N**
	FI1009	-	-	-	-	-	**-**
	FI1010	Decamethylcyclopentasiloxane (D5)	-	Decamethylcyclopentasiloxane (D5) (Entry 70)	0.010	<0.001	**N**
	FI1011	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.413	<0.001	**N[3)]**
	FI1012	-	-	Diisocyanates (Entry 74)	0.009	<0.001	**N**
	FI1013	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.268	0.001	**N[3)]**
	FI1014	-	-	-	-	-	**-**
	FI1015	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.586	0.013	**N[3)]**
	FI1016	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.119	0.028	**N[3)]**

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1)] (% w/w)	Substance concentration in article[2)] (% w/w)	SVHC > 0.1% Reporting required?[2)] (Y/N/Risk)
Smart Phone Model XT2223	FI1017	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.062	<0.001	**N**
	FI1018	-	-	-	-	-	**-**
	FI1019	-	-	-	-	-	**-**
	FI1020	-	-	-	-	-	**-**
	FI1021	-	-	-	-	-	**-**
	FI1022	-	-	-	-	-	**-**
	FI1023	4-tert-butylphenol[4)]	-	-	0.006	<0.001	**N**
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.006	<0.001	**N**
		2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one)	-	-	0.002	<0.001	**N**
	FI1024	4-tert-butylphenol[4)]	-	-	0.007	<0.001	**N**
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.018	<0.001	**N**
	FI1025	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.042	<0.001	**N**
	FI1026	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.072	<0.001	**N**

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1] (% w/w)	Substance concentration in article[2] (% w/w)	SVHC > 0.1% Reporting required?[2] (Y/N/Risk)
Smart Phone Model XT2223	FI1027	4-tert-butylphenol[4]	-	-	0.014	<0.001	**N**
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.055	<0.001	**N**
	FI1100	Octamethylcyclotetrasiloxane (D4)	-	Octamethylcyclotetrasiloxane (D4) (Entry 70)	<0.001	<0.001	**N**
		-	-	Toluene (Entry 48)	0.009	<0.001	**N**
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry66)	0.018	<0.001	**N**

[1] For the composition of fractions please refer to Chapter 7. Please note, that for the composition of fractions only samples with a certain minimum weight can be used properly. The minimum weight is 0.02g for soft materials and 0.01g for hard materials.Materials which are consumed completely during previous analyses can not be considered as well.
[2] The results refer to the article considered as functional unit as described in the first column of this table. For the assignment on homogenous material level, further testing could be required. For samples with low weights, the detection limit of 0.1% SVHC in homogeneus material may not be achieved.
* For the conditions of restriction please refer to "List of REACH Annex XVII substances" of this test report of for more detailed information refer directly to REACH Regulation (1907/2006/EC) Annex XVII in EUR -Lex Website
[3] Reporting is required on the homogeneous material level.
[4] Depending on the manufacturing process of 4-tert-butylphenol a certain ratio of 3-tert-butylphenol may also be present

5.2 List of SVHC and Annex XIV substances

orthoboric acid, sodium salt[1)]	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) [6)]
Glutaral[1)]	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) [8)]
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers[6)]	4,4'-(1-methylpropylidene)bisphenol (BPB)
1,4-dioxane	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)
Bis(2-(2-methoxyethoxy)ethyl) ether	Dioctyltin dilAurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety[2)]
Butyl 4-hydroxybenzoate	Dibutylbis(pentane-2,4-dionato-O,O')tin[2)]
1-vinylimidazole[1)]	2-methylimidazole[1)]
Perfluorobutane sulfonic acid (PFBS) and its salts[1)]	Diisohexyl phthalate
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides[1)]	2-methoxyethyl acetate
4-tert-butylphenol	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)[6)]
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one[1)]	2,2-bis(4'-hydroxyphenyl)-4-methylpentane[1)]
Benzo[k]fluoranthene	Fluoranthene
Phenanthrene	Pyrene
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	Benzo[ghi]perylene
Decamethylcyclopentasiloxane (D5)	Dicyclohexyl phthalate
Disodium octaborate[1)]	Dodecamethylcyclohexasiloxane (D6)
Ethylenediamine[1)]	Lead[4)]
Octamethylcyclotetrasiloxane (D4)	Terphenyl, hydrogenated
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	Benz[a]anthracene
Cadmium carbonate[2)]	Cadmium hydroxide[2)]
Cadmium nitrate[2)]	Chrysene
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[1)]	Perfluorohexane-1-sulphonic acid and its salts[1)]
4,4'-isopropylidenediphenol (BPA)	4-heptylphenol, branched and linear
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts[1)]	Nonadecafluorodecanoic acid[1)]
Decanoic acid, nonadecafluoro-, sodium salt[1)]	Ammonium nonadecafluorodecanoate[1)]

p-(1,1-dimethylpropyl)phenol	Benzo[def]chrysene (Benzo[a]pyrene)
1,3-propanesultone	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)*
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)*	Nitrobenzene
Perfluorononan-1-oic-acid and its sodium and ammonium salts[1)]	Perfluorononan-1-oic-acid[1)]
Sodium salts of perfluorononan-1-oic-acid[1)]	Ammonium salts of perfluorononan-1-oic-acid[1)]
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters*	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1][1)]*
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)*	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2][1)]*
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)[1)]	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)*
Cadmium sulphate[2)]	Cadmium fluoride[2)]
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear*	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)[1)]
Sodium perborate, perboric acid, sodium salt[1)*]	Cadmium chloride[2)]
Sodium perborate[1)]	Perboric acid, sodium salt[1)]
Cadmium sulphide[2)]	Sodium peroxometaborate[1)]*
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)[1)]	Dihexyl phthalate*
Imidazolidine-2-thione (2-imidazoline-2-thiol)	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)[1)]
Trixylyl phosphate*	Lead di(acetate)[2)]
Ammonium pentadecafluorooctanoate (APFO)[1)]	4-Nonylphenol, branched and linear, ethoxylated [6)]*
Cadmium oxide[2)]	Cadmium[2)]
Pentadecafluorooctanoic acid (PFOA)[1)]	Dipentyl phthalate (DPP)*
1,2-diethoxyethane	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear*
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine[1)]	1-bromopropane (n-propyl bromide)*
4,4'-oxydianiline and its salts	4,4'-methylenedi-o-toluidine
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [7)]*	4,4'-oxydianiline
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	4-aminoazobenzene
6-methoxy-m-toluidine (p-cresidine)	4-Nonylphenol, branched and linear
Acetic acid, lead salt, basic[2)]	[Phthalato(2-)]dioxotrilead[2)]
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	Biphenyl-4-ylamine
Cyclohexane-1,2-dicarboxylic anhydride	cis-cyclohexane-1,2-dicarboxylic anhydride
trans-cyclohexane-1,2-dicarboxylic anhydride	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)[1)]
Dibutyltin dichloride (DBTC)[2)]	Diethyl sulphate
Diisopentyl phthalate*	Dimethyl sulphate

Dinoseb (6-sec-butyl-2,4-dinitrophenol)	Dioxobis(stearato)trilead[2)]
Fatty acids, C16-18, lead salts[2)]	Furan
Henicosafluoroundecanoic acid[1)]	Heptacosafluorotetradecanoic acid[1)]
Hexahydromethylphthalic anhydride	Hexahydro-1-methylphthalic anhydride
Hexahydro-3-methylphthalic anhydride	Hexahydro-4-methylphthalic anhydride
Lead cyanamidate[2)]	Lead bis(tetrafluoroborate)[2)]
Lead monoxide (lead oxide) [2)]	Lead dinitrate[2)]
Lead titanium trioxide[2)]	Lead oxide sulfate[2)]
Methoxyacetic acid	Lead titanium zirconium oxide[2)]
N,N-dimethylformamide	Methyloxirane (Propylene oxide)[1)]
N-pentyl-isopentylphthalate*	N-methylacetamide
o-toluidine	o-aminoazotoluene
Pentacosafluorotridecanoic acid[1)]	Orange lead (lead tetroxide) [2)]
Pyrochlore, antimony lead yellow[2)]	Pentalead tetraoxide sulphate[2)]
Silicic acid, lead salt[2)]	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped[2)]
Tetraethyllead[2)]	Sulfurous acid, lead salt, dibasic[2)]
Tricosafluorododecanoic acid[1)]	Tetralead trioxide sulphate[2)]
Trilead dioxide phosphonate[2)]	Trilead bis(carbonate) dihydroxide[2)]
1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol[1)]
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)[1)]	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)[1)]
Formamide[1)]	Diboron trioxide[1)]
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	Lead(II) bis(methanesulfonate)[2)]
1,2-dichloroethane*	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)[1)]
2-Methoxyaniline, o-Anisidine	2,2'-dichloro-4,4'-methylenedianiline*
Aluminosilicate Refractory Ceramic Fibres[5)]	4-(1,1,3,3-tetramethylbutyl)phenol
Bis(2-methoxyethyl) ether*	Arsenic acid[2)]*
Calcium arsenate[2)]	Bis(2-methoxyethyl) phthalate*
Formaldehyde, oligomeric reaction products with aniline*	Dichromium tris(chromate)[2,3)]*
Lead dipicrate[2)]	Lead diazide, Lead azide[2)]
N,N-dimethylacetamide	Lead styphnate[2)]
Phenolphthalein	Pentazinc chromate octahydroxide[2,3)]*
Trilead diarsenate[2)]	Potassium hydroxyoctaoxodizincatedichromate[2,3)]*

1,2,3-trichloropropane	Zirconia Aluminosilicate Refractory Ceramic Fibres[5)]
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters*	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich*
2-ethoxyethyl acetate	1-Methyl-2-pyrrolidone
Strontium chromate[2,3)]*	Hydrazine[1)]
2-methoxyethanol	2-ethoxyethanol
Dichromic acid[2,3)]	Acids generated from chromium trioxide and their oligomers[2,3)]*
Chromic acid[2,3)]	Oligomers of chromic acid and dichromic acid[2,3)]
Cobalt(II) carbonate[2)]	Chromium trioxide[2,3)]*
Cobalt(II) dinitrate[2)]	Cobalt(II) diacetate[2)]
Ammonium dichromate[2,3)]*	Cobalt(II) sulphate[2)]
Boric acid, crude natural[1)]	Boric acid[1)]
Disodium tetraborate, anhydrous[1)]	Potassium chromate[2,3)]*
Potassium dichromate[2,3)]*	Sodium chromate[2,3)]*
Tetraboron disodium heptaoxide, hydrate[1)]	Trichloroethylene*
Acrylamide	2,4-dinitrotoluene*
Anthracene oil*	Anthracene oil, anthracene paste
Anthracene oil, anthracene paste, anthracene fraction	Anthracene oil, anthracene paste, distn. lights
Anthracene oil, anthracene-low	Diisobutyl phthalate (DIBP)*
Lead chromate[2)]*	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)[2)]*
Lead sulfochromate yellow (C.I. Pigment Yellow 34)[2)]*	Pitch, coal tar, high-temp.*
Tris(2-chloroethyl) phosphate*	4,4'- Diaminodiphenylmethane (MDA)*
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)*	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) [8)]
Anthracene	Benzyl butyl phthalate (BBP)*
Bis (2-ethylhexyl)phthalate (DEHP)*	Bis(tributyltin) oxide (TBTO)
Cobalt dichloride[2)]	Diarsenic pentaoxide[2)]*
Diarsenic trioxide[2)]*	Dibutyl phthalate (DBP)*
Hexabromocyclododecane (HBCDD)*	Triethyl arsenate[2)]
Lead hydrogen arsenate[2)]	Sodium dichromate[2,3)]*

[1)] Not tested

[2)] Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required.

[2, 3)] Relevant compounds based on XRF Screening and UV-Vis test results (selected chemical elements)

[4)] Lead has been added to the list of Substances of Very High Concern in its metallic form. This does include alloys but not lead-based glass and ceramics.

[5)] Relevant compounds based on XRF Screening: test results for Al and Si. For a statement regarding the actual presence of asbestos further testing is required.

[6)] One isomer was tested as representative for substance group.

[7)] Four isomers were tested as representative for substance group

[8)] *The detection limit for SCCP and MCCP in homogenous materials is 0.4%. For samples in Fractions the detectable concentration is higher depending on fraction composition and sample weight. For technical reasons, a differentiation between short and medium chain chlorinated paraffins is not possible. Further chemical analysis is necessary for differentiation.*

* Substance also included in Annex XIV of REACH ("Authorisation List")

5.3 List of REACH Annex XVII substances

75. (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008 [1)] (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council [1)] (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. [1)]	**76.** *N,N*-dimethylformamide
73. (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol Any of its mono-, di- or tri-O-(alkyl)derivatives (TDFAs) [1)]	**74.** Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length [7)]
71. 1-methyl-2-pyrrolidone (NMP)	**72.** The substances listed in column 1 of the Table in Appendix 12 [1) 6)]
69. Methanol [1)]	**70.** Octamethylcyclotetrasiloxane (D4) [1)] Decamethylcyclopentasiloxane (D5) [1)]
67. Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) [8)]	**68.** Perfluorooctanoic acid [8)]
65. Inorganic ammonium salts [1)]	**66.** 4,4'-isopropylidenediphenol (Bisphenol A) [1)]
63. Lead and its compounds [1) 3)]	**64.** 1,4-Dichlorobenzene [1)]
61. Dimethylfumarate (DMF)	**62.** Phenylmercury neodecanoate[3)] Phenylmercury octanoate[3)] Phenylmercury propionate[3)] Phenylmercury acetate[3)] Phenylmercury 2-ethylhexanoate[3)]
59. Dichloromethane [1)]	**60.** Acrylamide [1)]
57. Cyclohexane	**58.** Ammonium nitrate (AN) [1)]
55. 2-(2-butoxyethoxy)ethanol (DEGBE)[1)]	**56.** Methylenediphenyl diisocyanate (MDI) including the following specific isomers [5)]: (a) 4,4'-Methylenediphenyl diisocyanate (b) 2,4'-Methylenediphenyl diisocyanate (c) 2,2'-Methylenediphenyl diisocyanate
52. (a) Di-'isononyl' phthalate (DINP) [1)] (b) Di-'isodecyl' phthalate (DIDP) [1)] (c) Di-n-octyl phthalate (DNOP) [1)] (d) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich [1)] (e) 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich [1)]	**54.** 2-(2-methoxyethoxy)ethanol (DEGME)
50. Polycyclic-aromatic hydrocarbons (PAH) (a) Benzo[a]pyrene (BaP) (b) Benzo[e]pyrene (BeP) (c) Benzo[a]anthracene (BaA) (d) Chrysen (CHR) (e) Benzo[b]fluoranthene (BbFA) (f) Benzo[j]fluoranthene (BjFA) (g) Benzo[k]fluoranthene (BkFA) (h) Dibenzo[a,h]anthracene (DBAhA)	**51.** (a) Bis (2-ethylhexyl) phthalate (DEHP) [1)] (b) Dibutyl phthalate (DBP) [1)] (c) Benzyl butyl phthalate (BBP) [1)]
48. Toluene	**49.** Trichlorobenzene
	47. Chromium VI compounds [1)]
46. (a) Nonylphenol [1) 6)]	**46a.** Nonylphenol ethoxylates [1) 6)]

(b) Nonylphenol ethoxylates [1) 6)]	
43. Azocolourants and Azodyes [1) 6)]	**45.** Diphenylether, octabromo derivative
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.[1)]	**41.** Hexachloroethane[1)]
37. Pentachloroethane	**38.** 1,1-Dichloroethene
35. 1,1,2,2-Tetrachloroethane	**36.** 1,1,1,2-Tetrachloroethane
32. Chloroform[3)]	**34.** 1,1,2-Trichloroethane
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B or toxic to reproduction category 1 or 2 [7)]	**31.** (a) Creosote; wash oil [1)] (b) Creosote oil; wash oil [1)] (c) Distillates (coal tar), naphthalene oils; naphthalene oil [1)] (d) Creosote oil, acenaphthene fraction; wash oil [1)] (e) Distillates (coal tar), upper; heavy anthracene oil [1)] (f) Anthracene oil [1)] (g) Tar acids, coal, crude; crude phenols [1)] (h) Creosote, wood [1)] (i) Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline [1)]
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B or carcinogen category 1 or 2 [7)]	**29.** Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B or mutagen category 1 or 2 [7)]
26. Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT [2) 3)]	**27.** Nickel and ist compounds[3)]
24. Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141 [2) 3)]	**25.** Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121 [2) 3)]
22. Pentachlorophenol and its salts and esters [3) 8)]	**23.** Cadmium and its compounds [3)]
20. Organostannic compounds [3)]	**21.** Di-µ-oxo-di-n-butylstanniohydroxyborane/ Dibutyltin hydrogen borate $C_8H_{19}BO_3Sn$ (DBB) [3)]
18a. Mercury [1) 3)]	**19.** Arsenic compounds [1) 3)]
17. Lead sulphates [3)]: (a) $PbSO_4$ (b) Pb_xSO_4	**18.** Mercury compounds [1) 3)]
15. 4-Aminobiphenyl xenylamine	**16.** Lead carbonates [3)]: (a) Neutral anhydrous carbonate ($PbCO_3$) (b) Trilead-bis(carbonate)-dihydroxide 2Pb CO_3 -$Pb(OH)_2$
13. Benzidine and ist salts [7)]	**14.** 4-Nitrobiphenyl
11. Volatile esters of bromoacetic acids[1)]: (a) Methyl bromoacetate (b) Ethyl bromoacetate (c) Propyl bromoacetate (d) Butyl bromoacetate	**12.** 2-Naphthylamine and ist salts [7)]
9. (a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines [1)] (b) Powder of the roots of Helleborus viridis and Helleborus niger [1)] (c) Powder of the roots of Veratrum album and Veratrum nigrum [1)] (d) Benzidine and/or its derivatives [1)] (e) o-Nitrobenzaldehyde C [1)] (f) Wood powder [1)]	**10.** (a) Ammonium sulphide [1)] (b) Ammonium hydrogen sulphide [1)] (c) Ammonium polysulphide [1)]
7. Tris(aziridinyl)phosphinoxide [1) 6)]	**8.** Polybromobiphenyls; Polybrominatedbiphenyls (PBB)[1)]

	6)
5. Benzene	**6.** Asbestos fibres 4) (a) Crocidolite (b) Amosite (c) Anthophyllite (d) Actinolite (e) Tremolite (f) Chrysotile
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008[1)]	**4.** Tris (2,3 dibromopropyl) phosphate 1) 6)
1. Polychlorinated terphenyls (PCTs)[3) 7)]	**2.** Chloroethene (vinyl chloride)[1)]

1) N/A the restriction does not apply to this article
2) Not tested
3) Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required. Depending on the actual nature of the compound there is a risk of REACH Annex XVII non compliance.
4) Relevant compounds based on XRF Screening: test results for Al and Si. For a statement regarding the actual presence of asbestos further testing is required.
5) One isomer was tested as representative for substance group.
6) Applies to textile articles
7) Selected substances were evaluated as representatives
9) See Chapter " Global Compliance Acceptance Criteria (banned and controlled Substances)"
8) Regulation (EU) No 2020/2096: entries 22, 67, 68 have been deleted (more severe restrictions are laid down for those substances in Regulation (EU) 2019/1021 POP)

6 Test Results PAH

PAH[1)]	FI1097	FI1098	FI1099	FI1004
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1005	FI1006	FI1007	FI1008
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1009	FI1010	FI1011	FI1012
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1013	FI1014	FI1015	FI1016
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1017	FI1018	FI1019	FI1020
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1021	FI1022	FI1023	FI1024
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

PAH[1)]	FI1025	FI1026	FI1027	FI1100
Benz[a]anthracene (µg/g)	ND	ND	ND	ND
Chrysene (µg/g)	ND	ND	ND	ND
Benzo[b]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[k]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[j]fluoranthene (µg/g)	ND	ND	ND	ND
Benzo[e]pyrene (µg/g)	ND	ND	ND	ND
Benzo[a]pyrene (µg/g)	ND	ND	ND	ND
Dibenz[a,h]anthracene (µg/g)	ND	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	**Pass**	**Pass**	**Pass**	**Pass**

ND: Not detected
[1)] REACH Screening results.

7 Composition of fraction samples

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.076	FI1097	FG2183-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Black shock pad 1	0.013%	0.022
				FG2157-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 3+13	0.014%	0.025
				FG2179-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Metallic shock pads 1+2+3	0.017%	0.029

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.208	FI1098	FG2157-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pad 12	0.052%	0.091
				FG2157-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 2+9+10	0.067%	0.117

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	1.202	FI1099	FG2157-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black shock pads 1	0.136%	0.238
				FG2180-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Gray shock pad	0.552%	0.964

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.262	FI1004	FG2168-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button, Black rubber cover	0.019%	0.033
				FG2184-01	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB, Black rubber cover	0.056%	0.098
				FG2173-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Black rubber cover 1	0.075%	0.131

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.165	FI1005	FG2156-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 3	0.025%	0.043
				FG2156-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 2	0.049%	0.086
				FG2163-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Camera cover , Clear glue strip	0.021%	0.036

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.181	FI1006	FG2179-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Metallic glue strip 1+2	0.037%	0.064
				FG2186-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Glue strip	0.042%	0.074
				FG2186-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex, Metallic glue strip 2	0.025%	0.043

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.458	FI1007	FG2156-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue 1	0.106%	0.185
				FG2159-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Clear glue strips	0.156%	0.273

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.759	FI1008	FG2158-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue foil 1+2+4	0.217%	0.378
				FG2158-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black glue foil 3	0.218%	0.381

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.056	FI1009	FG2176-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, White cable jacket	0.015%	0.027
				FG2176-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black connection cable, Black outer cable jacket	0.017%	0.029

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.060	FI1010	FG2177-03	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, White cable jacket	0.019%	0.033
				FG2177-01	22-064 Motorola, Smart Phone Model #:XT2233 series, White connection cable, White outer cable jacket	0.015%	0.027

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.127	FI1011	FG2181-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Blue glue strips	0.023%	0.041
				FG2181-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Clear glue strips	0.049%	0.086

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.066	FI1012	FG2181-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black rubber strip	0.024%	0.042
				FG2181-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black glue strip	0.014%	0.024

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.477	FI1013	FG2181-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Green glue strips	0.124%	0.216
				FG2181-11	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Yellow glue strips	0.150%	0.261

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.548	FI1014	FG2159-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Pink thermal paste	0.083%	0.145
				FG2173-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB, Pink thermal paste	0.231%	0.403

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	3.949	FI1015	FG2181-09	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, White foil	2.263%	3.949

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	41.187	FI1016	FG2181-10	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Carbon coating	23.602%	41.187

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.736	FI1017	FG2181-15	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, PWB	0.312%	0.544
				FG2181-16	22-064 Motorola, Smart Phone Model #:XT2233 series, Battery, Black plastic cover	0.110%	0.192

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.195	FI1018	FG2183-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Flex	0.009%	0.015
				FG2162-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 6	0.017%	0.029
				FG2162-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 5	0.017%	0.030
				FG2162-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 3	0.021%	0.037

				FG2162-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 4	0.023%	0.040
				FG2174-17	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Flex 2	0.025%	0.044

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	1.284	FI1019	FG2162-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 2	0.054%	0.095
				FG2170-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Flex	0.064%	0.112
				FG2169-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Flex	0.067%	0.117
				FG2172-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Flex	0.087%	0.151
				FG2171-18	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Flex	0.089%	0.155
				FG2185-07	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, Flex	0.105%	0.184
				FG2175-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Button flex	0.111%	0.193
				FG2168-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Power button, Flex	0.159%	0.277

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	2.301	FI1020	FG2185-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Vibra call, PWB	0.189%	0.330
				FG2182-00	22-064 Motorola, Smart Phone Model #:XT2233 series, PWB connection flex	0.276%	0.482
				FG2162-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Antenna flex 1	0.292%	0.510
				FG2184-05	22-064 Motorola, Smart Phone Model #:XT2233 series, SUB PWB	0.561%	0.979

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	9.582	FI1021	FG2186-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Display LED flex	0.586%	1.023
				FG2173-14	22-064 Motorola, Smart Phone Model #:XT2233 series, Main PWB	4.905%	8.559

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.147	FI1022	FG2169-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Clear plastic lenses	0.019%	0.034
				FG2170-04	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Clear plastic lenses	0.029%	0.050
				FG2171-17	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Clear plastic lenses	0.029%	0.051
				FG2172-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Clear plastic lenses	0.007%	0.012

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.457	FI1023	FG2169-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Black plastic frame	0.021%	0.036
				FG2169-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Front camera, Black plastic housing	0.025%	0.044
				FG2170-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Black plastic frame	0.044%	0.077

				FG2170-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 1, Black plastic housing	0.023%	0.041
				FG2171-03	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 1	0.019%	0.034
				FG2171-05	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 2	0.023%	0.040
				FG2171-06	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic frame 3	0.035%	0.061
				FG2171-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 2, Black plastic housing	0.027%	0.047
				FG2172-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Black plastic frame	0.036%	0.062
				FG2172-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside camera 3, Black plastic housing	0.009%	0.015

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprügliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	6.911	FI1024	FG2160-00	22-064 Motorola, Smart Phone Model #:XT2233 series, Backside cover	3.960%	6.911

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	8.257	FI1025	FG2166-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame	4.732%	8.257

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	3.987	FI1026	FG2188-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Housing frame, Black plastic cover	2.285%	3.987

Artikel / *Article*	Gesamt-gewicht Artikel [g] / *Total Weight article [g]*	Fraktions-gewicht [g]/ *Fraction weight [g]*	Fraktions-probennr./ *Fraction Sample No.*	Ursprüngliche Probennr./ *Initial Sample No.*	Beschreibung / *Description*	Relatives Gewicht im Artikel/ *Relative Weight in Article*	Proben-gewicht [g]/ *Sample weight [g]*
22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	1.325	FI1027	FG2155-01	22-064 Motorola, Smart Phone Model #:XT2233 series, SIM Card holder, Black plastic mold	0.168%	0.294
				FG2183-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Black plastic housing	0.591%	1.031

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22-064 Motorola, Smart Phone Model #:XT2233 series	174.509	0.202	FI1100	FG2164-01	22-064 Motorola, Smart Phone Model #:XT2233 series, Light guide	0.052%	0.091
				FG2166-02	22-064 Motorola, Smart Phone Model #:XT2233 series, Black plastic frame, Mute buttons	0.028%	0.049
				FG2174-13	22-064 Motorola, Smart Phone Model #:XT2233 series, Top speaker, Black plastic frame	0.019%	0.033
				FG2183-12	22-064 Motorola, Smart Phone Model #:XT2233 series, Bottom speaker, Membrane	0.017%	0.029

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