VDE Prüfbericht / *VDE Test Report*

Prüfbericht Nr. *Report No.*	298248-TL7-1
VDE-Aktenzeichen *VDE File No.*	5022428-9021-0071/298248
Ausstellungsdatum *Date of issue*	2022-09-05
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: XT2239 Series**
Bemessungsdaten *Ratings*	

Zustand des Prüfmusters *Test sample condition*.....	☒	Unbeschädigtes Prüfmuster *Non-damaged sample*
	Bemerkung / *Remark:*	
Wareneingang Prüfmuster *Sample entry date*.....	2022-06-22	
Datum der Durchführung der Prüfungen *Date (s) of performance of tests*.....	2022-06-22 – 2022-09-05	

Geprüft und erstellt von: *Tested by*.....:	Annkatrin Kuhl	
Name / *Name,* Unterschrift / *Signature*.....:	(Autorisierung des Prüfberichtes *Authorization of test report*)	
Funktion / *Function*.....:	Prüfingenieur / Testing engineer	
Überprüft von / *approved by*.....:		
Name / Name, Unterschrift / Signature.....:	Beatrice Duchardt	
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	No 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.			

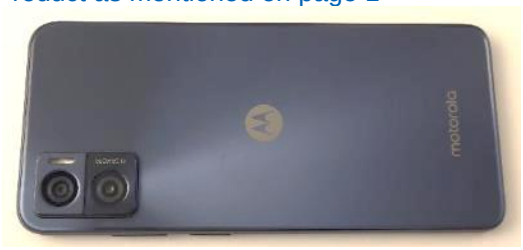
Allgemeine Bemerkungen / *General Remarks:*
Konformitätserklärung / *Conformity statement*: Die VDE-Entscheidungsregel für die Konformitätserklärung entspricht dem Verfahren 2 nach IEC Guide 115:2021 / *The VDE decision rule for the statement of conformity is in accordance with IEC Guide 115:2021 procedure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

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

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 see chapter 5
REACH Authorised and Restricted Substances not otherwise listed - Entry 20 Organostannic compounds [6]	Samples over the Limit of 0.1% Sn FL2241-04 (0.28% Sn)
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%) Samples over the Limit of 0.04% Sn: FL2241-04 (0.28% Sn) FL2246-03 (0.04% Sn)
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 V for controlled and banned substances.

2.2 Items that only use Homogeneous Materials

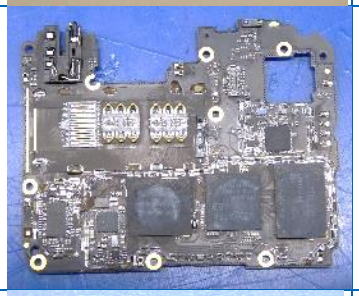
Sample Item	Description	Photo	Material of Concern (Concentration) [1)]	Does that rating make use of an Exemption	Sub Item level acceptance rating
FL2260-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Golden screw inserts		**Pb** (2.8 ± 1.1 % = 28000 ± 11000 ppm)	*Pb in copper alloy 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

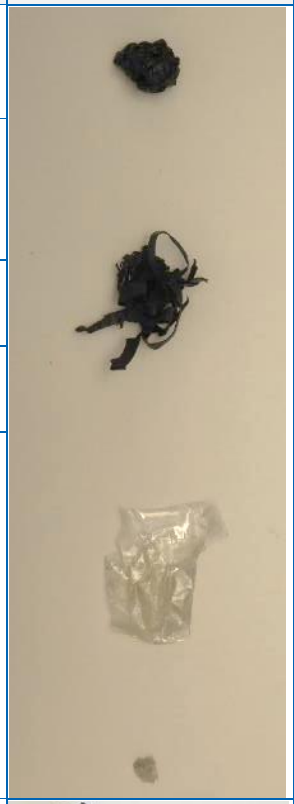
2.4 Non Homogeneous items that require attention on the sub item level

Sample Item	Description	Photo	Sub item	Material of Concern (Concentration) [1)]	Does that rating make use of an Exemption	Sub Item level acceptance rating
FL2235-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Display LED flex		Flex (100%)[2)]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FL2250-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB		PWB (100%)[2)]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FL2254-01	22-239 Motorola, Smart Phone Model #:XT2239 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

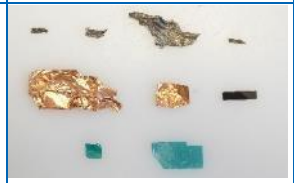
3 Material Assay Screening Results

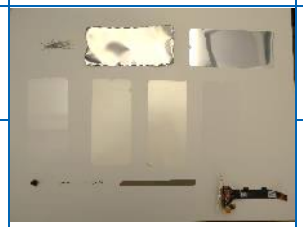
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
22-239 Motorola, Smartphone Model #XT2239 series								
FL2228-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Label 1-3, White glue strip 1+2, Humiditiy indicator		0.026	0.02%				
FL2228-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Label 1				34.62%	Paper 80% Acrylic 20%	Main: Al Si S Ca; Other: P Cl K Ti Fe; Trace: Cr Mn Ni Zn Sr Ba.	Reportable: Al Fe Si;
FL2228-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Label 2				30.77%	Paper 80% SB 20%	Main: Al Si Ca; Other: P S Cl K Ti Fe; Trace: Co Ni Zn Sr .	Reportable: Al Fe Co Si;
FL2228-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Label 3				23.08%	Paper and $CaCO_3$-Pigment 80% SB 20%	Main: Al Ca; Other: Si P S Cl K Ti Fe; Trace: Cr Co Ni Cu Zn Sr Zr Ba.	Reportable: Al Fe Co Si;
FL2228-04	22-239 Motorola, Smart Phone Model #:XT2239 series, White glue strip 1				3.85%	Paper and $CaCO_3$-Pigment 80% Acrylic 20%	Main: S; Other: Al Si P Cl Ca Ti Zn; Trace: .	Reportable: Al Si;
FL2228-05	22-239 Motorola, Smart Phone Model #:XT2239 series, White glue strip 2				3.85%	PET 80% Acrylic 20%	Main: S; Other: Al Si P Cl Ti; Trace: Ca Cu Zn Ba.	Reportable: Al Si;
FL2228-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Humiditiy indicator				3.85%	Paper 40% PP 40% Acrylic 20%	Main: S; Other: Al Si P Cl Ca Ti Fe; Trace: Co Ni Cu Zn Ba.	Reportable: Al Fe Co 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)]
FL2229-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue 1+2, Clear glue 1+2		0.471	0.28%				
FL2229-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue 1				42.25%	Acrylic	Other: Al Si P S Cl K Ca Fe Zn; Trace: Ti Mn Co Cu Ba Yb W.	Reportable: Al Fe Co Zn Si;
FL2229-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue 2				19.75%	EVA	Main: Ca; Other: Al Si P S Cl K Ti Zn; Trace: Mn Ni Yb.	Reportable: Al Zn Si;
FL2229-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Clear glue 1				35.24%	PET 80% Acrylic 20%	Main: Al; Other: Si P S Cl K Ca Ti Zn; Trace: Cr Fe Ni Cu Sb Ba.	Reportable: Al Si;
FL2229-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Clear glue 2				2.76%	PET 80% Acrylic 20%	Main: Al; Other: Si P S Cl K Ca Ti Ni Cu; Trace: Cr Mn Fe Zn Zr Sb Ba.	Reportable: Al Cu Si; Controlled: Ni.
FL2230-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 1-10, Metallic shock pad 1+2		1.307	0.77%				
FL2230-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 1				71.77%	PUR 60% PET 20% Acrylic 20%	Main: Si Ca; Other: Al P S Cl K Ni; Trace: Ti Mn Fe Co Zn Sr Sb Ba.	Reportable: Al Co Si;
FL2230-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 2				1.99%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Ca Ni; Trace: Cl Ti Mn Zn Sb.	Reportable: Al;

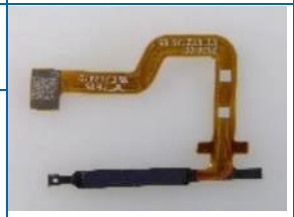
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2230-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 3				4.36%	PUR 60% PET 20% Acrylic 20%	Main: Ca; Other: Al Si P S Cl K Ti Ni; Trace: Fe Co Cu Zn Sr Sb.	Reportable: Al Co Si;
FL2230-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 4				0.54%	PUR 60% PET 20% Acrylic 20%	Main: S Ca; Other: Al Si P Cl Ti; Trace: Mn Fe Ni Cu Zn Sb Ba.	Reportable: Al Si P;
FL2230-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 5				1.22%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca; Trace: Ti Fe Ni Cu Zn Sb.	Reportable: Al Si;
FL2230-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 6				0.69%	PUR 60% PET 20% Acrylic 20%	Main: S Ca; Other: Al Si P Cl; Trace: Ti Mn Ni Zn Sb.	Reportable: Al Si;
FL2230-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 7				0.08%	Silicone 80% Acrylic 20%	Main: S; Other: Al Si P Cl Ca Zn; Trace: Ti Co Ni Cu Zr Ba.	Reportable: Al Co Si;
FL2230-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 8				0.23%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca Ti; Trace: Fe Ni Cu Zn Sb Ba.	Reportable: Al Si;
FL2230-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 9				2.30%	PUR 60% PET 20% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca; Trace: Ti Fe Co Cu Zn Sb Ba.	Reportable: Al Co Si;
FL2230-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 10				0.23%	PEVA 80% Acrylic 20%	Main: S; Other: Al Si P Cl Ca Zn; Trace: Ti Mn Fe Ni Cu Zr Ba.	Reportable: Al Zn Si;
FL2230-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic shock pad 1				16.30%	TPU 60% PET 20% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl Ca Hf; Trace: Ti Fe Zn Ga Sn Sb Ba.	Reportable: Al Cu Si; Controlled: Ni.
FL2230-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic shock pad 2				0.31%	Acrylic 40% PUR 60%	Main: S Ni Cu; Other: Al Si P Cl Ca Ti Hf; Trace: Fe Zn Ga Sb Ba.	Reportable: Al Cu Si P; Controlled: Ni.
FL2231-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside cover		7.014	4.15%		PMMA 80% TPU 20%	Main: Al Si; Other: P S Cl Ca Fe Nb; Trace: Ti Sn.	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)]
FL2232-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 1-7		0.569	0.34%				
FL2232-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 1				3.34%	Acrylic 20% PET 60% Metall Folie 20%	Other: Al Si P S Cl Ca Ti; Trace: Cu Zn Sb Ba.	Reportable: Al Si P;
FL2232-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 2				1.93%	Acrylic 20% PET 80%	Main: Al; Other: Si P S Cl Ca Ti; Trace: Cu Zn Ru In Sb Te Ba.	Reportable: Al Si P;
FL2232-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 3				21.97%	Acrylic 20% PET 80%	Main: Si; Other: Al P S Cl K Ca Fe; Trace: Ti Ni Cu Zn Sb Ba.	Reportable: Al Fe Si;
FL2232-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 4				21.97%	Acrylic 20% PET 80%	Main: Si; Other: Al P S Cl K Ca Fe; Trace: Ti Cu Zn Sb Ba.	Reportable: Al Fe Si;
FL2232-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 5				36.38%	Acrylic 20% PET 80%	Other: Al Si P S Cl K Ca Ti; Trace: Fe Ni Cu Sb.	Reportable: Al Si P;
FL2232-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 6				0.70%	Acrylic 20% PET 80%	Main: Al Si; Other: P S Cl Ca Ti Ni; Trace: Cr Cu Zn Sb Ba.	Reportable: Al Si P;
FL2232-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 7				13.71%	Acrylic 20% PET 80%	Main: Al Cu; Other: Si P S Cl K Ca Ti Cr Ni Zn Nd; Trace: V Mn Fe Ru Ag Sb Ba Ce Bi U.	Reportable: Al Cr Cu Zn Nd Si; Controlled: Ni.
FL2233-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black screws 1+2, Silver screw		0.852	0.50%				
FL2233-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black screws 1+2				95.89%		Main: Si P Fe Zn; Other: Al S Cl K Cr Mn Co; Trace: Ca Ti Cu Ge Zr Rh Sb Ba Pr Nd Bi.	Reportable: Al Cr Fe Co Zn;

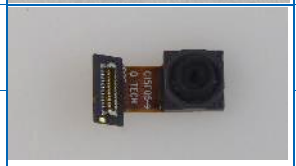
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2233-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Silver screw				4.11%		Main: P S Fe Ni Cu; Other: Si Cl K Ca Co Zn Y Ba Th U; Trace: Al Ti As Br Sr Zr Nb Rh In Sb.	Reportable: Fe Co Cu Zn Y Ba; Controlled: Ni.
FL2234-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 1-4, Copper glue strip 1+2, Black glue strip 1, Green glue strip 1+2		0.320	0.19%				
FL2234-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 1				0.63%	Acrylic 20% PBT 80%	Main: Si S Ni Cu; Other: Al P Cl Ca Ti Hf; Trace: Fe Zn Ga Ba.	Reportable: Al Cu Si P; Controlled: Ni .
FL2234-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 2				2.81%	Acrylic 20% Polyester 80%	Main: Al Ni Cu; Other: Si P S Cl Ca Ti Cr Mn Fe Zn Hf; Trace: Ga Sb Ba.	Reportable: Al Cr Fe Cu Si; Controlled: Ni .
FL2234-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 3				11.56%	Acrylic 20% PET 80%	Main: Al Si Ni Cu; Other: P S Cl K Ca Ti Fe Zn Hf; Trace: Cr Ga Sb.	Reportable: Al Fe Cu Zn Si; Controlled: Ni .
FL2234-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 4				0.31%	Acrylic 20% PET 80%	Main: S Ni Cu; Other: Al Si P Cl Ca Ti Fe Hf; Trace: Zn Sr In.	Reportable: Al Fe Cu Si P; Controlled: Ni .
FL2234-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Copper glue strip 1				72.50%	Acrylic 20% PET 10% Metal 70%	Main: Cu; Other: Al Si P S Cl K Ni Zn Yb; Trace: Ca Ti Mn Fe Ga Y Zr Nb Mo Rh Ba La Pr Nd Bi U.	Reportable: Al Cu Zn; Controlled: Ni.
FL2234-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Copper glue strip 2				6.88%	Acrylic 20% Metall 80%	Main: Si Cu; Other: Al P S Cl K Ti Fe Ni Zn Yb; Trace: Ca Mn Ga Y Zr Nb Mo Ba Nd Bi U.	Reportable: Al Fe Cu Zn; 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)]
FL2234-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue strip 1				2.19%	Acrylic 20% PET 80%	Main: S; Other: Al Si P Cl K Ca Ti; Trace: Ni Sb Ba.	Reportable: Al Si;
FL2234-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Green glue strip 1				0.31%	Acrylic 20% PET 80%	Main: Al; Other: Si P S Cl Ca Ti Cu Br Sn; Trace: Ni Zn Sb.	Reportable: Al Cu Sn Si; Controlled: BFR*.
FL2234-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Green glue strip 2				2.81%	Acrylic 20% PET 80%	Main: Al Si; Other: P S Cl Ca Ti Cu; Trace: Zn Sb Ba.	Reportable: Al Cu Si P;
FL2235-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly		20.187	11.94%				
FL2235-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Display black glue strip 1				0.00%	Acrylic 20% PET 80%	Main: Al Si S; Other: P Cl K Ca Ti Cu; Trace: Cr Fe Ni Zn Ba.	Reportable: Al Si;
FL2235-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Display gray plastic frame				1.01%	PC	Main: Ti; Other: Al Si P S Cl K Ca V Fe; Trace: Cr Ni Zn Br Zr Ba.	Reportable: Al Fe Si;
FL2235-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Display metal plate				41.24%		Main: Cr Mn Fe Ni; Other: Si P S K V Co Cu Mo W; Trace: Al Cl Ca Zn As Nb Rh Ba Pr Tl.	Reportable: Cr Fe Co Cu W; Controlled: Ni.
FL2235-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Reflection foil				5.85%	PET	Main: Ti; Other: Al Si P S Ca Ag; Trace: Cl V Ni Cu Zn Ru Sb.	Reportable: Al Ag Si;
FL2235-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Diffuser plate				23.69%	PC	Other: Al Si P; Trace: S K Ca Ti.	Reportable: Al;

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)]
FL2235-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Diffuser foil				3.25%	PMMA	Main: Si Ti; Other: Al P S Ca; Trace: Sb Ba.	Reportable: Al Si;
FL2235-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Polarisation foil 1				4.67%	PET	Main: Si P Zr; Other: Al S Cl Ca Hf; Trace: Ti Ni Y Sb.	Reportable: Al Si P;
FL2235-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Polarisation foil 2				6.40%	ASA	Main: P Zr; Other: Al Si S Cl Ca Y Sb Hf; Trace: K Ti Fe Co Ni Cu Ba.	Reportable: Al Co Y Sb Si P;
FL2235-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Display black glue				0.28%	PET 80% polyacrylate rubber 20%	Other: Al Si P S Cl K Ca Ti Fe; Trace: Mn Ni Cu Zn Sr Zr Sb Ba.	Reportable: Al Fe Si;
FL2235-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Display black/white glue				0.04%	PET 80% Acrylic 20%	Main: Si Ti; Other: Al P S Cl K Ca V Cr Fe; Trace: Cu Zn Sr Zr Nb Sb Ba Ta.	Reportable: Al Cr Fe Si;
FL2235-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Display black glue strip 2				0.03%	PET 80% Acrylic 20%	Main: Al Si; Other: P S Cl Ca Ti; Trace: Zn Sb Ba.	Reportable: Al Si;
FL2235-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Display back foil				7.25%	Cellulose acetate 80% Acrylic 20%	Other: Al Si P S Cl K Ti I; Trace: Ca V Zn Sb Nd.	Reportable: Al;
FL2235-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Display LED flex				6.27%		See x,y-Scan Results in Chapter 4 Main: Al Cu; Other: Si P S Cl Ca Ni Zn Zr Ag Sn Ba W; Trace: Ti V Cr Mn Br Ru Nd Au Hg Tl Pb Bi U.	Reportable: Al Cu Zn Ag Sn Ba W Si P; **Controlled: Ni Pb.**

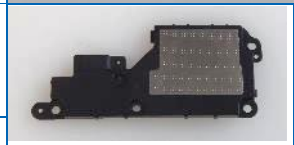
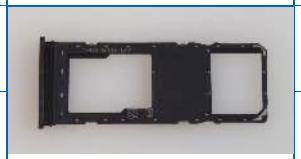
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2236-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Front glass with LCD		27.300	16.14%			Main: Si Sr; Other: Al K Ca Ti Fe Br Zr Mo Ag In I Ba; Trace: Cl Sn Hf Ta.	Reportable: Al Fe Ag Ba Si;
FL2237-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Light guide 1+2		0.166	0.10%				
FL2237-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Light guide 1				92.17%	PMMA	Other: Al Si P S; Trace: K Ca Ti.	Reportable: Al;
FL2237-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Light guide 2				7.83%	PMMA	Other: Al Si P S Cl Ca Ti; Trace: Cr Mn Cu Zn Ba.	Reportable: Al Si;
FL2238-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Power button		0.272	0.16%				
FL2238-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Power button, Flex				61.03%		Main: Al P Cu; Other: Si S Cl Ca Ti Cr Fe Co Ni Zr Ag Sn Ba; Trace: Zn Ga Ru Sb W Au Hg Tl Pb Bi.	Reportable: Al Cr Fe Co Cu Ag Sn Ba Si P; Controlled: Ni.
FL2238-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Power button				19.12%	PC 80% PMMA 20%	Main: Al Si Ca Cu; Other: P S Cl K Ti Fe Ni Sr Ba Hf; Trace: V Cr Zn Zr Sn Au.	Reportable: Al Fe Cu Ba Si; Controlled: Ni .
FL2238-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic strip				12.50%	TPU	Other: Al Si P S Cl K Ca Ti; Trace: V Zn Br Ba.	Reportable: Al;

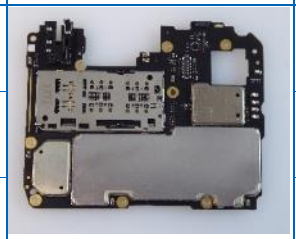
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2238-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate				7.35%	TPU	Main: Al Si S Ca Cu; Other: P Cl K Ti Fe Ni Sr Ba Au; Trace: Zn Zr Pd Sn Te W.	Reportable: Al Fe Cu Ba Au Si; Controlled: Ni .
FL2239-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Antenna flex		0.201	0.12%			Main: Al Si P Ni Cu; Other: S Cl K Ca Ti Zn Zr Hf Au; Trace: Cr Fe Ga Ge Ba.	Reportable: Al Cu Au Si P; Controlled: Ni.
FL2240-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Volume button		0.046	0.03%		PC 80% PMMA 20%	Other: Al Si P S Cl K Ti; Trace: Ca Co Ba Ce Pr.	Reportable: Al Co Si;
FL2241-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover		1.801	1.06%				
FL2241-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Black plastic housing				64.69%	PC 80% PUR 20%	Other: Al Si P S Cl K Ca; Trace: Ti Zn Ba Bi.	Reportable: Al;
FL2241-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Coated clear plastic frame				18.77%	TPU 20% PMMA 80%	Other: Al Si P S; Trace: Cl K Ca Fe Nb.	Reportable: Al;
FL2241-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Black glue				2.55%	Acrylic	Other: Al Si P S Cl K Ca Ti Cr Fe Zn; Trace: Co Ni Cu Yb.	Reportable: Al Cr Fe Co Zn Si;
FL2241-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Plastic cover				13.99%	Glass 80% Acrylic 20%	Main: Al Si K Ca; Other: P S Cl Ti Zr Sn; Trace: Fe Zn Ga Ba.	Reportable: Al 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)]
FL2242-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic frame		6.472	3.83%		PC 80% PMMA 20%	Other: Al Si P S Ca Ti; Trace: Cl K Ni Ba Bi.	Reportable: Al;
FL2243-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Net 1		0.003	0.00%		PET 80% Acrylic 20%	Other: Al Si P S Cl Ca Ti; Trace: Fe Ni Cu Zn Sb Ba.	Reportable: Al P;
FL2244-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera		0.194	0.11%				
FL2244-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Flex				45.88%		Main: Al Si S Ca Ti Cu; Other: P Cl K Co Ni Ge Sr Zr Sn Ba Hf Ta W Au; Trace: Fe Ga Pd Ag.	Reportable: Al Co Cu Sn Ba W Au Si P; Controlled: Ni.
FL2244-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black rubber ring				5.15%	Silicone	Main: Si; Other: P S Cl Ca; Trace: Ti Fe Ni Zn.	Reportable: Si;
FL2244-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black plastic frame				26.29%	Polyester GF	Main: Al Si K Ba; Other: P S Ca Ti Fe Cu Zn; Trace: Mn Ga Rb.	Reportable: Al Fe Cu Zn Ba Si P;
FL2244-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Blue glass				4.12%	Glass	Main: Al Si P S Ca Ti Ba; Other: Cu Zn; Trace: Cl Fe Ni Sr .	Reportable: Al Cu Zn Ba Si P;
FL2244-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black plastic housing				11.86%	PMMA	Main: Si; Other: Al P S Cl Ca Zn; Trace: Ti Ni Cu Ba.	Reportable: Al Si P;
FL2244-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Plastic lenses				5.67%	Epoxy	Main: Si; Other: Al P S Cl Ca Ti; Trace: Ni Cu Zn .	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)]
FL2244-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, foil ring				0.52%	PET	Main: Si S; Other: Al P Cl; Trace: Ca Ti Ba.	Reportable: Al Si;
FL2244-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black plastic ring				0.52%	PC	Main: S; Other: Al Si P Cl Ca; Trace: Ti .	Reportable: Al Si;
FL2245-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1		0.222	0.13%				
FL2245-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Flex				68.02%		Main: Al Si S Ca Cu Sn Ba; Other: P Cl K Ti Fe Co Ni Br Sr Zr Ag W Au Bi; Trace: Zn Ga Mo.	Reportable: Al Fe Co Cu Ag Sn Ba W Au Bi Si; Controlled: Ni.
FL2245-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Black plastic frame				17.57%	Polyester GF	Main: Al K; Other: Si P S Ti Fe; Trace: Cl Ca Mn Zn Ga Rb Ba W.	Reportable: Al Fe Si;
FL2245-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Glass plate				1.80%		Main: Si S K Ti Zn; Other: Al P Cl Ca; Trace: Fe Se Rb Zr Ag .	Reportable: Al Zn Si;
FL2245-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Black plastic rings				0.45%	PC	Other: Al Si P S Cl; Trace: Ca Ti Ni .	Reportable: Al Si;
FL2245-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Clear plastic lenses				1.80%	TPV	Main: Si; Other: Al S Cl Ti; Trace: P Ca .	Reportable: Al Si;
FL2245-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside				0.45%	PET	Main: S; Other: Al Si P Cl Ca; Trace: Ti Cu Zn.	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)]
	camera 1, Black foil rings							
FL2245-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Black plastic housing				9.91%	PC	Other: Al Si P S Cl K Ti Zn; Trace: Ca Ni Cu Ba Pr.	Reportable: Al Si;
FL2246-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable		0.153	0.09%				
FL2246-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, White inner cable jacket				23.53%	PTFE	Other: Al Si P S Cl K Ca Ti Cu; Trace: Sn.	Reportable: Al Cu Si;
FL2246-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Black outer cable jacket				25.49%	PTFE	Other: Al Si S Cl Ti Cu Sn; Trace: Ca Zn Ba.	Reportable: Al Cu Si;
FL2246-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Black plastic insert				0.65%	PBT	Main: S; Other: Al Si P Cl Ca Ti Ni Cu Zn Sn; Trace: Fe Ba Au.	Reportable: Al Cu Sn Si P; Controlled: Ni.
FL2246-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Golden contacts				0.65%		Main: Si P S Ni Cu Sn Au; Other: Cl K Ca Ti Ge Ba; Trace: Al Y Zr Nb Rh Sb.	Reportable: Cu Sn Ba Au; Controlled: Ni.
FL2246-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Golden contact holder				21.57%		Main: Al P Ni Cu Sn; Other: Si S Cl Ca Ti Nd Hf Au; Trace: V Cr Mn Fe Zn Ga Ge Ag Tl.	Reportable: Al Cu Sn Nd Au 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)]
FL2246-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Wire				28.10%		Main: S Cu Ag Sn; Other: Al Si P Cl Zn W; Trace: Ca Ti Fe Sr Y Zr Nb Rh I Yb Bi U.	Reportable: Al Cu Zn Ag Sn W;
FL2247-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Speaker flex 1		0.02	0.01%			Main: Al Si Ni Cu; Other: P S Cl K Ca Ti Fe Zn Zr Hf Au; Trace: Cr Ga Ba W.	Reportable: Al Fe Cu Au Si P; Controlled: Ni.
FL2248-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate		0.969	0.57%				
FL2248-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate				51.70%	PC	Main: Si Ca; Other: Al P S Cl K Ti Fe; Trace: Sr Zr Ba Bi.	Reportable: Al Fe Si;
FL2248-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate, Metal plate				48.19%		Main: Cr Fe Ni; Other: Si P S Cl K Ca V Mn Co Cu Mo Nd; Trace: Al Zn Ge As Nb Rh Ba Pr W Tl.	Reportable: Cr Fe Co Cu Nd; Controlled: Ni.
FL2248-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate, Black glue foil				0.10%	PUR 80% PET 20%	Main: Si; Other: Al P S Cl K Ca Ti Fe; Trace: Zn Ba.	Reportable: Al Fe Si;
FL2249-00	22-239 Motorola, Smart Phone Model #:XT2239 series, SIM Card holder		0.667	0.39%				
FL2249-01	22-239 Motorola, Smart Phone Model #:XT2239 series, SIM Card holder, Metal frame				53.37%		Main: S Cr Mn Fe Ni; Other: Si P Cl K Ca V Co Cu Mo Nd; Trace: Al Zn As Sn Sb Ba W.	Reportable: Cr Fe Co Cu Nd; Controlled: Ni.
FL2249-02	22-239 Motorola, Smart Phone Model #:XT2239 series, SIM Card holder, Blakc plastic				44.23%	PC	Main: Si Ca; Other: Al P S Cl K Ti Cr Fe; Trace: Ni Cu Zn Br Sr Zr Ba.	Reportable: Al Cr Fe 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)]
FL2249-03	22-239 Motorola, Smart Phone Model #:XT2239 series, SIM Card holder, Seal ring				2.40%	Silicone	Main: Si; Other: P S Cl Ca; Trace: Ti.	Reportable: Si;
FL2250-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB		14.007	8.28%				
FL2250-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB				60.86%		See x,y-Scan Results in Chapter 4	**Controlled: Pb.**
FL2250-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, thermal paste				3.37%	Silicone	Main: Al Si Zn; Other: P Ca Ti Fe Sb W; Trace: S K Ga Ge Hf.	Reportable: Al Fe Zn Sb W Si P;
FL2250-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 1				5.32%		Main: Ni Cu Zn; Other: Al Si P S Cl Mn Fe Sn Nd; Trace: Ca Cr Co Ga Ge As Se Y Zr Mo Ru Rh Pd Ag Ba.	Reportable: Al Fe Co Cu Zn Sn Nd; Controlled: Ni.
FL2250-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 2				5.51%		Main: Cr Mn Fe Ni; Other: Si P S K Ca V Co Cu Zn Mo Nd W; Trace: Al Cl Ga Ge As Nb Ru Rh Ba Tl.	Reportable: Cr Fe Co Cu Zn Nd W; Controlled: Ni.
FL2250-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 3				9.50%		Main: Ni Cu Zn; Other: Al Si P S Cl Mn Fe Sn Nd; Trace: Ca Cr Co Ge As Se Y Zr Mo Rh Pd Ag Cs Ba Ce Pr.	Reportable: Al Fe Co Cu Zn Sn Nd; Controlled: Ni.
FL2250-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 4				2.37%		Main: Si Ni Cu Zn; Other: Al P S Cl Cr Mn Fe Sn; Trace: Ca Co Ga Ge As Se Y Zr Rh Ag Ba.	Reportable: Al Cr Fe Co Cu Zn Sn; 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)]
FL2250-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 5				2.11%		Main: Si Ni Cu Zn; Other: Al P S Cl Mn Fe Sn; Trace: Ca Ti Cr Co Ga Ge Se Y Zr Rh Ag Ba Nd.	Reportable: Al Fe Co Cu Zn Sn; Controlled: Ni.
FL2250-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal shielding 6				4.58%		Main: Cr Mn Fe Ni; Other: Si P S Cl K Ca V Co Cu Zn Mo Nd; Trace: Al Ti Ge Rh Sn Sb Ba Pr.	Reportable: Cr Fe Co Cu Zn Nd; Controlled: Ni.
FL2250-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal frame				5.34%		Main: Si Ni Cu Zn; Other: Al P S Cl Cr Mn Fe Ag Sn; Trace: Ca Ti Co Ga Ge As Se Zr Ba.	Reportable: Al Cr Fe Co Cu Zn Ag Sn; Controlled: Ni.
FL2250-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal part 1				0.76%		Main: P S Cr Fe Ni; Other: Si Cl K Ca V Mn Co Cu Zn Mo Ba Th; Trace: Al Ti As Rb Sr Y Zr Nb Rh In Cs W.	Reportable: Cr Fe Co Cu Zn Ba; Controlled: Ni.
FL2250-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Metal part 2				0.21%		Main: S Cr Mn Fe Ni; Other: Si P Cl K Ca Ti V Co Cu Zn Mo Nd; Trace: Al As Nb Ba W Bi Th.	Reportable: Cr Fe Co Cu Zn Nd; Controlled: Ni.
FL2250-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Black rubber part				0.06%	Silicone	Main: Al Si S Ca; Other: P Cl Ti Zn; Trace: Fe Ni Cu.	Reportable: Al Zn Si;
FL2250-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, Humidity indicator				0.01%	Paper 80% Acrylic 20%	Main: Si; Other: Al P S Cl Ca Ti Zn; Trace: Fe Ni Ba.	Reportable: Al Zn Si;
FL2251-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black rubber part 1+2		0.184	0.11%				
FL2251-01	22-239 Motorola, Smart Phone Model #:XT2239				48.37%	Silicone	Main: Si; Other: P S Cl K Ca Ti Zn;	Reportable: 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)]
	series, Black rubber part 1						Trace: Fe Zr .	
FL2251-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black rubber part 2				51.63%	Silicone	Main: Si; Other: P S Cl K Ca Ti Zn; Trace: Fe Co Zr Ba.	Reportable: Co Zn Si;
FL2252-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2		0.528	0.31%				
FL2252-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Flex				25.38%		Main: Al Si S Cu Ba; Other: P Cl Ca Ti Co Ni Ga Ge Sr Zr Sn Hf Ta W Au Bi; Trace: Pd Ag.	Reportable: Al Co Cu Sn Ba Ta W Au Bi Si P; Controlled: Ni.
FL2252-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Copper glue foil				3.41%		Main: Cu; Other: Al Si P S Cl Ca Cr Ni Zn Nd W; Trace: Ti V Mn Ru Rh Sb Tl Bi.	Reportable: Al Cr Cu Zn Nd W; Controlled: Ni.
FL2252-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Metal frame				35.42%		Main: P Fe Ni Cu; Other: Si S Cl K Ca Mn Zn Bi; Trace: Al Ti Cr Co Ba Pr U.	Reportable: Fe Co Cu Zn Bi; Controlled: Ni.
FL2252-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 1				4.17%	Polyester GF	Main: Si S Ca; Other: Al P Cl K Ti Mn Fe Ba; Trace: Zn Sr .	Reportable: Al Fe Ba Si;
FL2252-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 2				8.52%	PA	Main: Si S Ca Ti Ba; Other: Al P Cl K Fe Cu Zn; Trace: Mn Sr Nb Yb.	Reportable: Al Fe Cu Zn Ba Si P;
FL2252-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 3				5.49%	Polyester GF	Main: Si S Ca Cu; Other: Al P K Ti Mn Fe Ba; Trace: Cl Cr Ni Zn Sr.	Reportable: Al Fe Cu Ba 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)]
FL2252-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic housing				6.25%	PC	Main: Si; Other: Al P S Cl K; Trace: Ca Ti Mn.	Reportable: Al Si;
FL2252-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Clear plastic lenses				6.63%	hard rubber	Main: Si; Other: Al P S Cl K Ti; Trace: Ca Ba.	Reportable: Al Si;
FL2252-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black foil rings				0.19%	PET	Main: Si; Other: Al P S Cl K Ca Ti Cr; Trace: Cu Zn.	Reportable: Al Cr Si;
FL2252-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Copper wire				3.03%		Main: Si S Ti Cu; Other: Al P Cl Ni Zn; Trace: Ca Sr Y Zr Nb Sb Ba Yb W Pb Bi U.	Reportable: Cu Zn;
FL2252-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Blue glass				1.52%		Main: Al Si P Ca Ti Ba; Other: S K Cu Zn; Trace: Cl Fe Sr .	Reportable: Al Cu Zn Ba Si P;
FL2253-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Lightening jack PWB		0.922	0.55%				
FL2253-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Lightening jack PWB,				99.78%		Main: Si S Cu Sn Ba; Other: Al P Cl K Ca Ti Ni Sr Zr Mo Ag Hf Au Bi; Trace: Zn Ga Te Cs La Ce Pr W Pb.	Reportable: Al Cu Ag Sn Ba Au Bi Si; Controlled: Ni.
FL2253-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Lightening jack PWB, Label				0.22%	Acrylic	Other: Al Si P S Cl Ca Ti; Trace: Cr Mn Fe Ni Zn Pd Ba.	Reportable: Al Si;

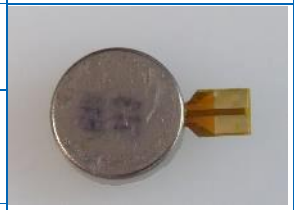
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2254-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery		52.873	31.26%				
FL2254-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, PWB				0.99%		See x,y-Scan Results in Chapter 4 Main: Si Ni Cu Sn; Other: Al P S Cl K Ca Ti Zn Sr Zr Ag Ba Hf; Trace: Fe Rh.	Reportable: Al Cu Ag Sn Ba Si P; **Controlled: Ni Pb.**
FL2254-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black plastic cover				0.39%	PC	Main: P; Other: Al Si S K; Trace: Cl Ca Ti.	Reportable: Al Si P;
FL2254-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black glue strip				0.07%	PAI 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Ti; Trace: Fe Co Ni Cu Zn Sn Ba.	Reportable: Al Co Si;
FL2254-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, White glue strip				0.03%	PET 80% Acrylic 20%	Main: Ti; Other: Al Si P S Cl K Ca V; Trace: Ni Zn Nb Sb Ba.	Reportable: Al Si;
FL2254-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 1				0.12%	PAI 80% Acrylic 20%	Other: Al Si P S Cl K Ca Ti; Trace: Fe Ni Cu Zn Ba.	Reportable: Al Si;
FL2254-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Outer metal foil				3.38%	Metal 40% PA 30% PP 30%	Main: Al Si P Fe; Other: S Cl K Ca Ti V Cr Co Ni Cu Zn Ga; Trace: Mn Y Zr Nb Mo Ba Pr Yb Pb U.	Reportable: Al Cr Fe Co Cu; Controlled: Ni.
FL2254-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black rubber strip				0.07%	Silicone 80% Acrylic 20%	Main: Si; Other: Al P S Cl K Ca Ti Zn; Trace: Co Sb Ba.	Reportable: Al Co Zn Si;
FL2254-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 2				0.26%	Acrylic 20% PAI 80%	Other: Al Si P S Cl K Ca; Trace: Ti Co Cu Zn Ba Pr.	Reportable: Al Co Si;

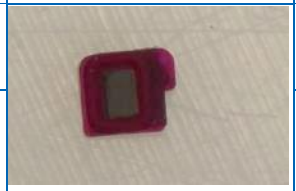
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2254-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 3				0.08%	PAI 70% Metal Folie 15% Vistaflex 15%	Main: Si P S Cu; Other: Al Ca Cr Co Nd Ta; Trace: Cl Ti V Mn Fe Ni Ga .	Reportable: Al Cr Co Cu Nd Si P;
FL2254-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Blue glue strips				0.09%	SEBS 20% PET 80%	Main: Al Si P S; Other: Ca Co Cu; Trace: Cl Ti Ni Ba Ta.	Reportable: Al Co Cu Si P;
FL2254-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Green glue strips				0.69%	PET 90% Acrylic 10%	Main: S Ti Co; Other: Al Si P Ca Cr Ni Zn Y Zr Nd Ta W; Trace: Cl Mn Fe Cu Ga Mo Sb Ba La Ce.	Reportable: Al Cr Co Zn Y Nd W Si P; Controlled: Ni .
FL2254-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Clear glue strips				0.08%	SEBS 20% PET 80%	Main: Al; Other: Si P S Cl K Ca Ti Co Cu; Trace: Fe Sb.	Reportable: Al Co Cu Si P;
FL2254-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Contact strip 1				0.29%		Main: P Ni; Other: Al Si S Cl K Ca Ti Cr Fe Cu Zn; Trace: Mn Co Ge As Se Y Rh Ba Ce Pr Nd Tl Bi U.	Reportable: Al Cr Fe Co Cu; Controlled: Ni.
FL2254-14	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Contact strip 2				0.12%		Main: Al; Other: Si P S K Ca Ti V Fe Co Ga; Trace: Cl Cr Mn Ni Cu Zn.	Reportable: Al Fe Co;
FL2254-15	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Copper foil				9.65%		Main: Cu; Other: Al P S Cr Nd; Trace: Si Cl Ca Mn Fe Co Zn Ga Ge Y Zr Nb Ba Yb W.	Reportable: Al Cr Co Cu Nd;
FL2254-16	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Silver foil				7.89%		Main: Al; Other: Si P S Cl K Fe Co Cu; Trace: Ca Ti V Mn Ni Zn Ga.	Reportable: Al Fe Co Cu;
FL2254-17	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, White foil				6.14%	PE-HD	Main: Al P S Cu; Other: Si Cl K Ca Ti Co; Trace: Fe Y Zr Ta.	Reportable: Al Co Cu 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)]
FL2254-18	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Carbon coating				69.68%		Main: P S Co Cu; Other: Al K Ca Hf; Trace: Si Ti V Cr Fe Ni Zn Y Ba Nd Ta.	Reportable: Al Co Cu P;
FL2255-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker		0.977	0.58%				
FL2255-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Flex 1				1.23%		Main: Al Si P S Cu; Other: Cl K Ca Ti Fe Co Ni Zr Hf; Trace: Cr Zn Ga Sn Ba W Au.	Reportable: Al Fe Co Cu Si P; Controlled: Ni.
FL2255-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Metal frame				12.49%		Main: Cr Fe Ni Mo; Other: Si P Cl K Ca V Mn Co Cu Nd W; Trace: Al Nb Rh Sn Sb Ba.	Reportable: Cr Fe Co Cu Nd W; Controlled: Ni.
FL2255-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Magnets				37.77%		Main: Fe Zn Pr; Other: Al Si S Cl Mn Co Cu Ga Ge Sr Y Zr Nb Mo Nd Yb U; Trace: Ca V Rb Ru Rh In Sn Sb Bi Th.	Reportable: Al Fe Co Cu Zn Y Pr Nd;
FL2255-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Metal plate 1				22.21%		Main: Si P Fe Ni; Other: Al S Cl K Ca Ti Mn Zn Sn Nd Bi; Trace: Cr Y Rh Ba Tl Th.	Reportable: Al Fe Zn Sn Nd Bi; Controlled: Ni.
FL2255-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Metal plate 2				6.65%		Main: P Fe Ni; Other: Al Si S Cl K Mn; Trace: Ca Ti Cr Zn Y Nd Th U.	Reportable: Fe; Controlled: Ni.
FL2255-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Metal plates 3				6.14%		Main: Fe Ni Zn; Other: Al Si P S Cl K Ca Ti V Cr Mn Nb Pr Nd; Trace: Co Ga Mo Th.	Reportable: Cr Fe Co Zn Pr Nd; Controlled: Ni.
FL2255-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Membrane				0.82%	PEEK 30% Acrylic 10% Metal 60%	Main: Al; Other: Si P S Ca Ti Fe Cu; Trace: Cl V Mn Ni Zn Ga.	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)]
FL2255-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Metal strips				3.48%		Main: Fe Ni; Other: Al Si P S Cl K Ca Mn Zn; Trace: Ti Co Cs Ba Nd Tl Bi.	Reportable: Fe Co; Controlled: Ni.
FL2255-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Copper wire				3.17%		Main: Si S Cu; Other: P Cl Ti Zn Ag; Trace: Al Ca Mn Fe Ni Y Zr Nb Ba Yb W Bi.	Reportable: Cu Ag;
FL2255-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Shock pads				0.92%	Acrylic 20% PUR 60% PET 20%	Main: Al Si; Other: P S Cl K Ca Ti Fe; Trace: Cr Co Ni Cu Zn Sb Nd.	Reportable: Al Fe Co Si;
FL2255-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Black nets 1				0.31%	PET 80% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca Ti Fe Ni Nd; Trace: Cr Co Cu Zn Sb.	Reportable: Al Fe Co Nd Si P;
FL2255-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Black net 2				0.10%	Acrylic 20% PET 80%	Main: Si S; Other: Al P Cl K Ca Ti Fe; Trace: Cr Co Ni Zn Sb Nd.	Reportable: Al Fe Co Si;
FL2255-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Black plastic frame				4.09%	PPA + GF	Main: Al Si Ca; Other: P S Cl K Ti Fe; Trace: Cr Mn Ni Cu Zn Sr Zr Ba Nd.	Reportable: Al Fe Si;
FL2255-14	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Pink glue				0.10%	PUR	Main: Al Si S; Other: P Cl K Ca Ti; Trace: Cr Ba Nd.	Reportable: Al Si P;
FL2255-15	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Blue glue				0.10%	TPU	Main: Al Si P S; Other: Cl Ca Ti; Trace: Ni Cu Sn Ba.	Reportable: Al Si P;
FL2255-16	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Flex 2				0.41%		Main: Al Si P S Cu; Other: Cl Ca Ti Co Ni; Trace: Cr Fe Ba Ta.	Reportable: Al Co Cu 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)]
FL2256-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker		1.301	0.77%				
FL2256-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Metal housing				33.36%		Main: P Fe Ni; Other: Al Si S Cl K Ca Mn Zn Nd Bi; Trace: Ti V Cr Y Rh Ce Pr Tl.	Reportable: Al Fe Zn Nd Bi; Controlled: Ni.
FL2256-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Metal plate				11.45%		Main: P Fe Ni; Other: Al Si S Cl K Ca Mn Co Zn Nd Bi; Trace: Cr Y Sn Ba Pr Th.	Reportable: Al Fe Co Zn Nd Bi; Controlled: Ni.
FL2256-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Metal frame				8.07%		Main: Si P S Fe Ni; Other: Al Cl K Ca Zn Bi; Trace: Ti Co Cu Ba La Pr Nd.	Reportable: Fe Co Zn Bi; Controlled: Ni.
FL2256-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Membrane				0.92%	Polyester	Main: Al; Other: Si P S Ti Fe; Trace: Cl Ca V Mn Ni Cu Zn Ga Ag .	Reportable: Al Fe Si;
FL2256-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Copper wire				2.77%		Main: Si S Cu Ag; Other: Al P Cl Ca Ti Ni Zn Ge Ba W; Trace: Mn Zr Rh In Sn Sb Nd Yb Bi.	Reportable: Cu Zn Ag Ba W;
FL2256-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Magnet				32.05%		Main: Fe Zn Pr; Other: Al Si S Cl Co Cu Ga Ge Y Zr Nb Mo Nd Yb U; Trace: Ca Cr Mn Ru Rh Sn Bi Th.	Reportable: Al Fe Co Cu Zn Y Pr Nd;
FL2256-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker,Black glue strip 1				0.38%	Acrylic 20% PUR 60% PET 20%	Main: Al Si; Other: P S Cl K Ca Ti Fe Zn; Trace: Cr Co Ni Cu Ga Sb Nd.	Reportable: Al Fe Co Zn Si;
FL2256-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker, Metal parts				2.46%		Main: Si S Cr Mn Fe Ni; Other: P Cl K Ca V Co Cu Zn Mo Sn Ba Nd Au; Trace: Al Ge Nb Sb Th.	Reportable: Cr Fe Co Cu Ba Nd 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)]
FL2256-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker,Black glue strip 2				0.61%	Acrylic 20% PUR 60% PET 20%	Main: Al; Other: Si P S Cl K Ca Ti Fe; Trace: Cr Ni Cu Zn Sb Ba Nd.	Reportable: Al Fe Si P;
FL2256-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker,Black plastic part				7.92%	PPA + GF	Main: Al Si Ca; Other: P S Cl K Ti Fe Sr Sn; Trace: Cr Zr Ba.	Reportable: Al Fe Si;
FL2257-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call		0.899	0.53%				
FL2257-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Flex				1.33%		Main: Al Si P S Ni Cu; Other: Cl K Ca Ti Zn Zr Sn Hf Au; Trace: Mn Fe Ga Ge Ru Ag.	Reportable: Al Cu Sn Au Si P; Controlled: Ni.
FL2257-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, PWB				27.92%		Main: Al Si P S Ca Fe Ni Cu Ba Au; Other: Cl K Ti Zn Ge Sr Sn W; Trace: Mn Zr Ru.	Reportable: Al Fe Cu Zn Sn Ba W Au Si P; Controlled: Ni.
FL2257-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Metallic glue foil				1.11%	PET 20% Acrylic 20% Polyester 60%	Main: Al Ni Cu; Other: Si P S Cl Ca Ti Fe Zn Hf; Trace: V Cr Mn Ga Sb.	Reportable: Al Fe Cu Zn Si; Controlled: Ni .
FL2257-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Top Metal housing				25.03%		Main: Fe Ni; Other: Si P S Cl K Ca Mn Co Zn Bi; Trace: Al Ti Cr Mo Ba Ce Pr Tl Th U.	Reportable: Fe Co Bi; Controlled: Ni.
FL2257-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Bottom metal housing				21.58%		Main: Si P Fe Ni; Other: Al S Cl K Ca Ti Mn Co Cu Zn Bi; Trace: Cr Y Mo Ba Ce Nd Tl Th.	Reportable: Fe Co Cu 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)]
FL2257-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Magnet				22.91%		Main: Fe Ni Cu Ce Pr; Other: Al Si S Cl Zn Ge Sr Y Zr Nb Mo W U; Trace: Ca V Co Br Rb Rh In Sb Bi Th.	Reportable: Al Fe Co Cu Zn Y Ce Pr W; Controlled: Ni.
FL2257-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Metal pin				0.11%		Main: S Cr Mn Fe; Other: Si P Cl K Ca V Co Ni Cu Zn Ba Nd; Trace: Al As Br Y Zr Mo Sb La Yb Th U.	Reportable: Cr Fe Co Cu Ba Nd; Controlled: Ni.
FL2258-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Red rubber part		0.009	0.01%				
FL2258-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Red rubber part, Red rubber frame				88.89%	Silicone	Main: Si; Other: P S Cl Ca Ti Ni Zn; Trace: K Fe .	Reportable: Si;
FL2258-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Red rubber part, Black rubber				11.11%	Acrylic 20% PET 80%	Main: Al Si; Other: P S Cl K Ca Ti Cu Zn; Trace: Mn Fe Co Ni Br Ba Hf Bi.	Reportable: Al Co Zn Si;
FL2259-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Button flex		0.189	0.11%			Main: Al Fe Ni Cu; Other: Si P S Cl K Ca Ti Cr Co Zn Zr Hf W Au; Trace: V Mn Ga Ge Mo Sn Sb.	Reportable: Al Cr Fe Co Cu Zn W Au Si P; Controlled: Ni.
FL2260-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing		28.019	16.57%				
FL2260-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Metal housing				84.15%		Main: Al Si Cu; Other: P S Cl K Ca Ti Cr Mn Fe Ni Zn; Trace: V Ga Zr Yb.	Reportable: Al Cr Fe Cu Zn; Controlled: Ni.
FL2260-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Black plastic part				15.41%	PC	Main: Si Ca; Other: Al P S K Ti Fe; Trace: Cl Br Sr Zr Ba Bi.	Reportable: Al Fe Si;

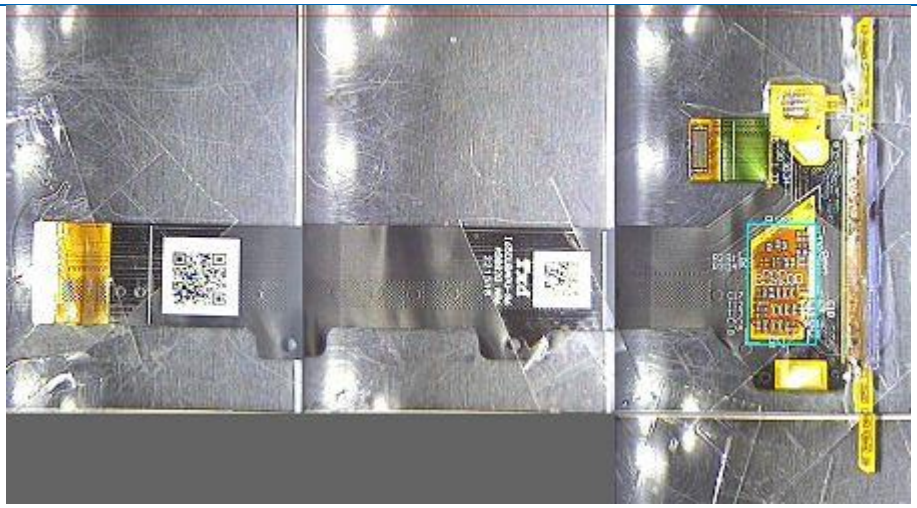
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FL2260-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Golden screw inserts				0.40%		Main: Si S Cu Zn Pb; Other: Al P Cl Ca Ti Fe Ni Ge Sn Sb Bi; Trace: Mn Y Rh Ag Yb.	Reportable: Al Fe Cu Zn Sn Sb Bi; **Controlled: Ni Pb.**
FL2260-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Clear rubber part				0.04%	Silicone	Main: Si; Other: P S Cl Ca Zn; Trace: Al Ti .	Reportable: Si;

[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
* Bromine detected: indicates potential presence of Brominated Flame Retardants
** 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 FL2235-13 Top

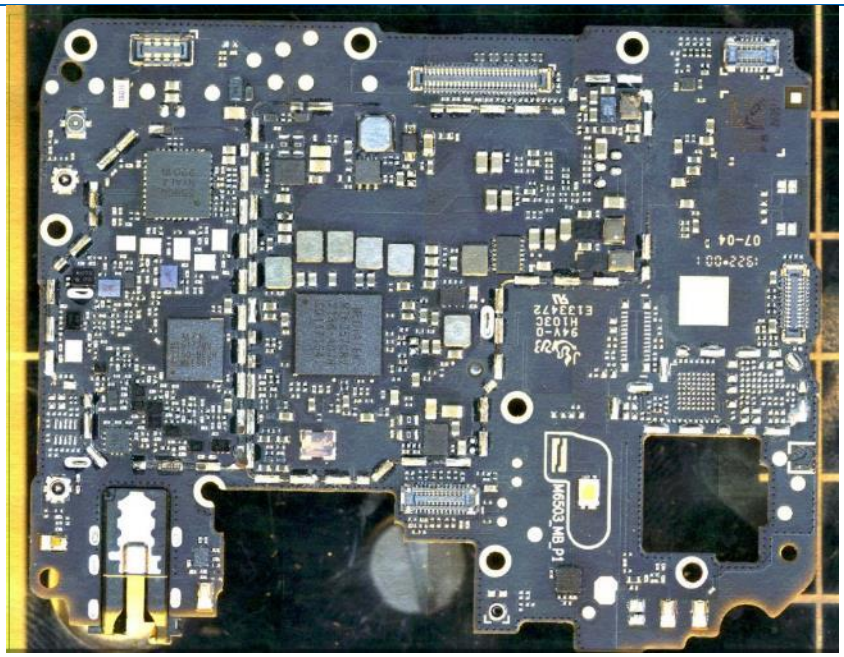


Bromine

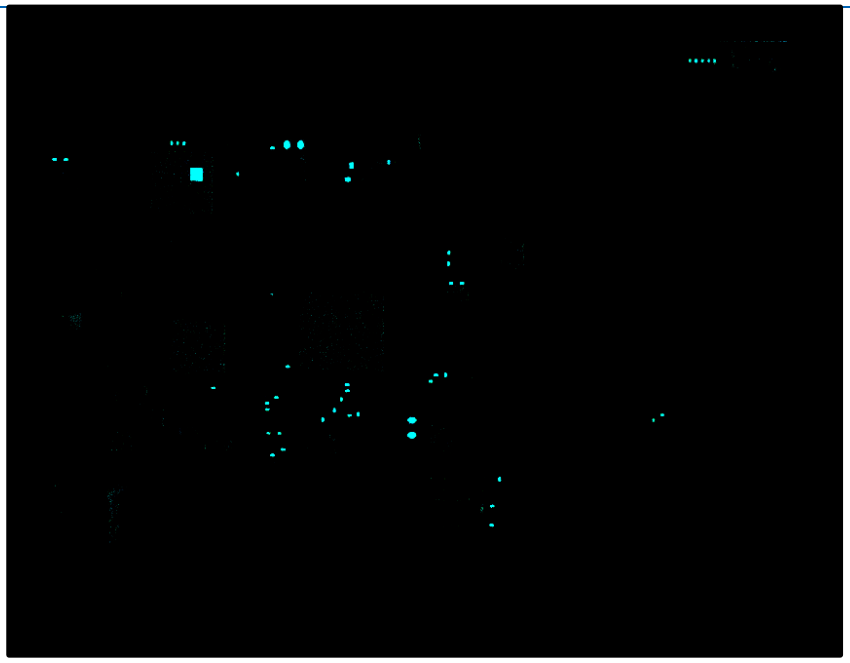
Not detected

Lead

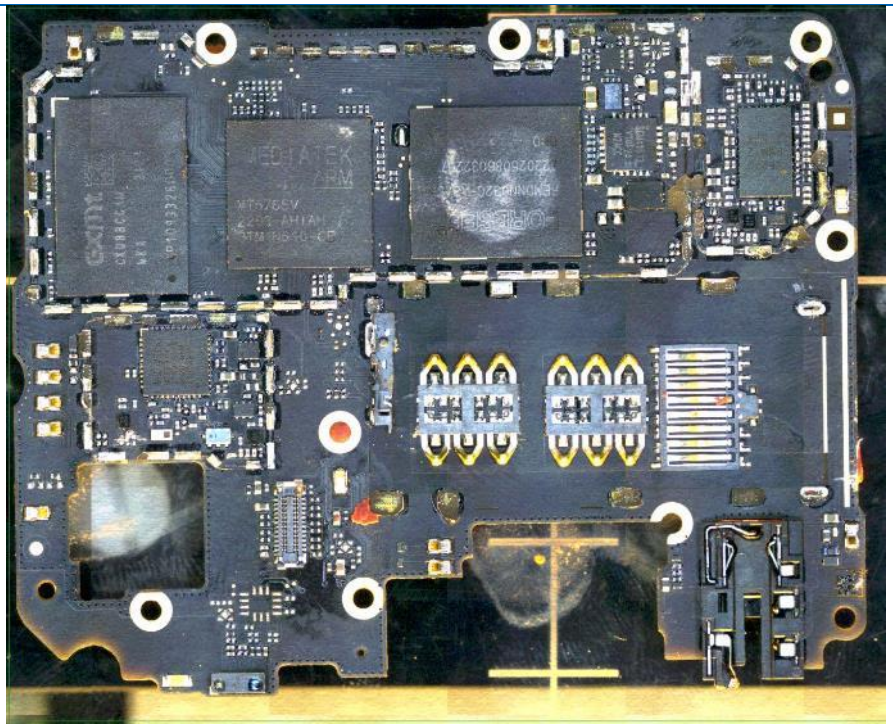
Results x,y Scan Sample FL2250-01 Top



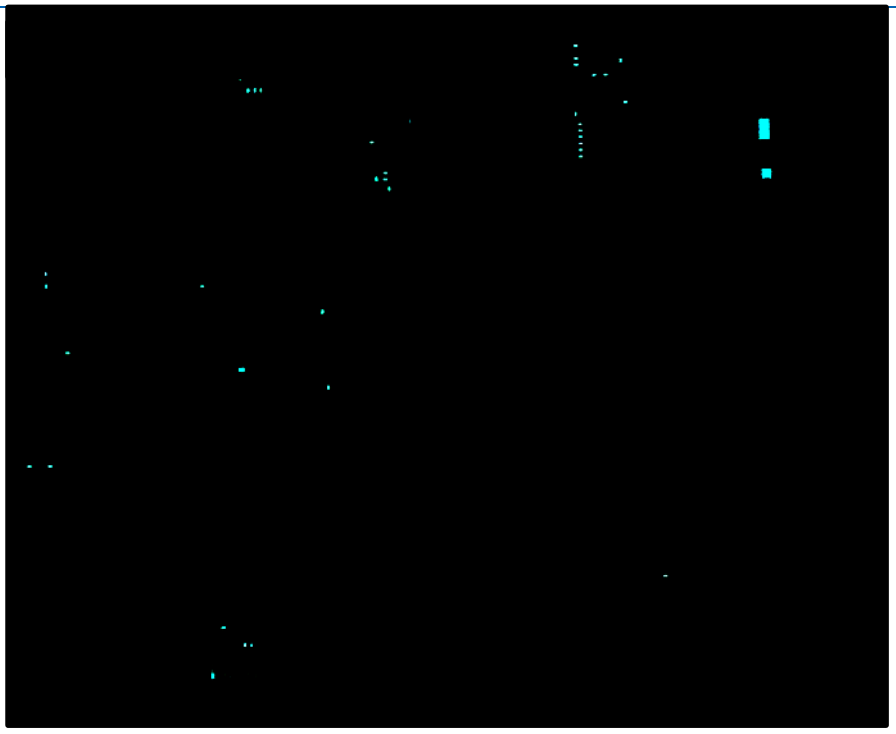
Bromine
Not detected
Lead



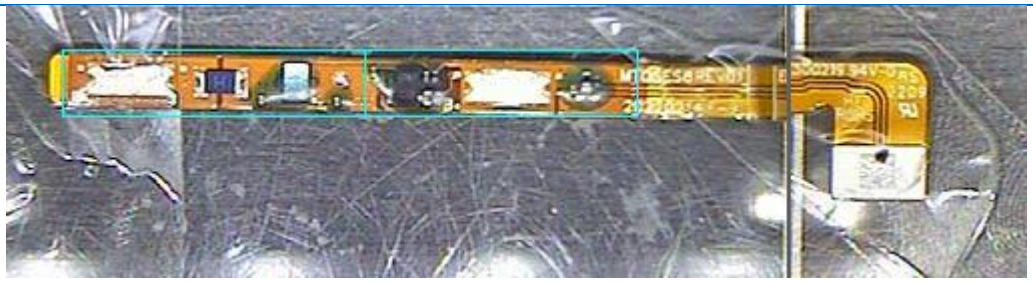
Results x,y Scan Sample FL2250-01 Bottom



Bromine
Not detected
Lead



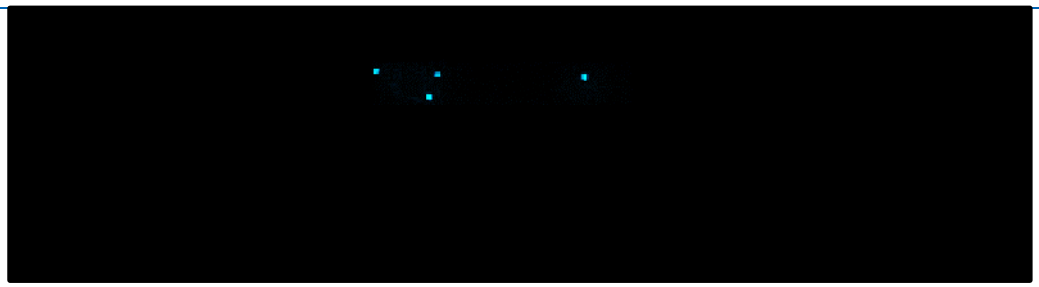
Results x,y Scan Sample FL2254-01 Top



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 January 17th, 2022, 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)
22-239 Motorola, Smart Phone Model #:XT2239 series	FM1329	4-tert-butylphenol[4]	-	-	0.020	0.001	N
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.013	0.001	N
	FM1330	4-tert-butylphenol[4]	-	-	0.028	0.002	N
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.047	0.003	N
	FM1331	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.046	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.015	<0.001	NA
	FM1332	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.107	<0.001	N[3]
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.019	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.027	<0.001	NA
	FM1333	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.127	<0.001	N[3]
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.007	<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)
22-239 Motorola, Smart Phone Model #:XT2239 series	FM1334	-	-	Diisocyanates (Entry 74)	0.023	<0.001	NA
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.108	<0.001	NA
	FM1335	-	-	Diisocyanates (Entry 74)	0.020	<0.001	NA
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.009	<0.001	NA
	FM1336	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	-	-	0.012	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.123	<0.001	NA
	FM1337	-	-	Diisocyanates (Entry 74)	0.006	<0.001	NA
	FM1338	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	-	-	0.007	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.113	<0.001	NA
	FM1339	-	-	Diisocyanates (Entry 74)	0.040	<0.001	NA
	FM1340	-	-	-			
	FM1341	-	-	-			
	FM1342	-	-	-			
	FM1343	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	1.161	0.022	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)
22-239 Motorola, Smart Phone Model #:XT2239 series	FM1344	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.019	<0.001	N
	FM1345	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.193	0.042	N[3]
	FM1346	4-tert-butylphenol[4]	-	-	0.023	0.001	N
	FM1347	4-tert-butylphenol[4]	-	-	0.010	<0.001	N
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.042	<0.001	N
	FM1348	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.018	<0.001	N
	FM1349	-	-	-			
	FM1350	4-tert-butylphenol[4]	-	-	0.009	<0.001	N
	FM1351	4-tert-butylphenol[4]	-	-	0.003	<0.001	N
		4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.016	<0.001	N
		2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	-	-	0.005	<0.001	N
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.003	<0.001	NA

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)
22-239 Motorola, Smart Phone Model #:XT2239 series	FM1352	-	-	Diisocyanates (Entry 74)	0.003	<0.001	NA
	FM1353	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	-	-	0.005	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.002	<0.001	NA
		-	-	Methylenediphenyl diisocyanate (MDI) (Entry 56)	0.002	<0.001	NA
	FM1354	4,4'-isopropylidenediphenol (BPA)	-	4,4'-isopropylidenediphenol (BPA) (Entry 66)	0.004	<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
NA: Not applicable

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

PAK / PAH	FM1329	FM1330
Benz[a]anthracene (mg/kg)	ND	ND
Chrysene (mg/kg)	ND	ND
Benzo[b]fluoranthene (mg/kg)	ND	ND
Benzo[k]fluoranthene (mg/kg)	ND	ND
Benzo[j]fluoranthene (mg/kg)	ND	ND
Benzo[e]pyrene (mg/kg)	ND	ND
Benzo[a]pyrene (mg/kg)	ND	ND
Dibenz[a,h]anthracene (mg/kg)	ND	ND
1907/2006/EG Anhang XVII Nr. 50 (REACH) ***1907/2006/EC REACH Annex XVII Entry 50***	**Pass**	**Pass**

ND: Nicht nachgewiesen / *Not detected*

Bestimmungsgrenze für alle Substanzen / *Limit of Quantification for all substances* 0,5 mg/kg

7 Composition of fraction samples

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	7.014	FM1329	FL2231-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside cover	4.147%	7.014

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	10.789	FM1330	FL2260-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Main housing, Black plastic part	2.552%	4.317
				FL2242-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic frame	3.826%	6.472

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.111	FM1331	FL2254-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black rubber strip	0.021%	0.035
				FL2254-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black glue strip	0.021%	0.036
				FL2254-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Clear glue strips	0.024%	0.040

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.156	FM1332	FL2254-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 3	0.025%	0.043
				FL2254-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Blue glue strips	0.030%	0.050
				FL2254-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 1	0.037%	0.063

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.503	FM1333	FL2254-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Yellow glue strips 2	0.081%	0.137
				FL2254-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Green glue strips	0.216%	0.366

Article	Total Weight article	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

	[g]						
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.113	FM1334	FL2230-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 2	0.015%	0.026
				FL2230-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 9	0.018%	0.030
				FL2230-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 3	0.034%	0.057

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	1.151	FM1335	FL2230-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Shock pad 1	0.555%	0.938
				FL2230-11	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic shock pad 1	0.126%	0.213

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.140	FM1336	FL2234-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Metallic glue strip 3	0.022%	0.037
				FL2241-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Black glue	0.027%	0.046
				FL2235-09	22-239 Motorola, Smart Phone Model #:XT2239 series, Display black glue	0.034%	0.057

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.296	FM1337	FL2232-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 7	0.046%	0.078
				FL2229-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue 2	0.055%	0.093
				FL2232-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 3	0.074%	0.125

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.291	FM1338	FL2232-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 4	0.074%	0.125
				FL2229-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Clear glue 1	0.098%	0.166

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.406	FM1339	FL2229-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue 1	0.118%	0.199
				FL2232-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Black glue foil 5	0.122%	0.207

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.075	FM1340	FL2246-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, White inner cable jacket	0.021%	0.036
				FL2246-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black connection cable, Black outer cable jacket	0.023%	0.039

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.184	FM1341	FL2251-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black rubber part 1	0.053%	0.089
				FL2251-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Black rubber part 2	0.056%	0.095

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.472	FM1342	FL2250-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB, thermal paste	0.279%	0.472

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	3.246	FM1343	FL2254-17	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, White foil	1.919%	3.246

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.730	FM1344	FL2254-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Black plastic cover	0.121%	0.204
				FL2254-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, PWB	0.311%	0.526

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	36.841	FM1345	FL2254-18	22-239 Motorola, Smart Phone Model #:XT2239 series, Battery, Carbon coating	21.781%	36.841

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	10.522	FM1346	FL2235-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Display gray plastic frame	0.121%	0.204
				FL2235-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Reflection foil	0.698%	1.180
				FL2235-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Diffuser plate	2.828%	4.783
				FL2235-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Diffuser foil	0.388%	0.657
				FL2235-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Polarisation foil 1	0.558%	0.943
				FL2235-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Display assembly, Polarisation foil 2	0.763%	1.291
				FL2235-12	22-239 Motorola, Smart Phone Model #:XT2239 series, Display back foil	0.866%	1.464

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.949	FM1347	FL2238-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Power button	0.031%	0.052
				FL2240-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Volume button	0.027%	0.046
				FL2245-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Black plastic housing	0.013%	0.022
				FL2248-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate	0.296%	0.501
				FL2249-02	22-239 Motorola, Smart Phone Model #:XT2239 series, SIM Card holder, Blakc plastic	0.174%	0.295
				FL2252-07	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic housing	0.020%	0.033

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.141	FM1348	FL2244-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black plastic frame	0.030%	0.051
				FL2245-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Black plastic frame	0.023%	0.039
				FL2252-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 1	0.013%	0.022
				FL2252-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 3	0.017%	0.029

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.059	FM1349	FL2237-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Light guide 2	0.008%	0.013
				FL2244-06	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Plastic lenses	0.007%	0.011
				FL2252-08	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Clear plastic lenses	0.021%	0.035

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	1.656	FM1350	FL2241-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Coated clear plastic frame	0.200%	0.338
				FL2237-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Light guide 1	0.090%	0.153
				FL2241-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Camera cover, Black plastic housing	0.689%	1.165

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.265	FM1351	FL2238-03	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic strip	0.020%	0.034

				FL2238-04	22-239 Motorola, Smart Phone Model #:XT2239 series, Black plastic plate	0.012%	0.020
				FL2244-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Black plastic housing	0.014%	0.023
				FL2252-05	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Black plastic frame 2	0.027%	0.045
				FL2255-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker, Black plastic frame	0.024%	0.040
				FL2256-10	22-239 Motorola, Smart Phone Model #:XT2239 series, Bottom speaker,Black plastic part	0.061%	0.103

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	0.584	FM1352	FL2255-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Top speaker , Flex 1	0.007%	0.012

				FL2257-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, Flex	0.007%	0.012
				FL2247-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Speaker flex 1	0.012%	0.020
				FL2244-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Front camera, Flex	0.053%	0.089
				FL2252-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 2, Flex	0.079%	0.134
				FL2245-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Backside camera 1, Flex	0.089%	0.151
				FL2238-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Power button, Flex	0.098%	0.166

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	1.561	FM1353	FL2259-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Button flex	0.112%	0.189
				FL2239-00	22-239 Motorola, Smart Phone Model #:XT2239 series, Antenna flex	0.119%	0.201
				FL2257-02	22-239 Motorola, Smart Phone Model #:XT2239 series, Vibra call, PWB	0.148%	0.251
				FL2253-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Lightening jack PWB,	0.544%	0.920

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-239 Motorola, Smart Phone Model #:XT2239 series	169.14	9.791	FM1354	FL2235-13	22-239 Motorola, Smart Phone Model #:XT2239 series, Display LED flex	0.748%	1.266
				FL2250-01	22-239 Motorola, Smart Phone Model #:XT2239 series, Main PWB	5.040%	8.525

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