

## Test Report

No. CANEC2207102205

Date: 25 Apr 2022

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Client Name : JIEJIE SEMICONDUCTOR CO.,LTD

Client Address : NO.6 JINGGANGSHAN ROAD, NANTONG SUTONG SCIENCE AND TECHNOLOGY INDUSTRIAL PARK

Sample Name : SMC

Model No. : SMC

Client Ref. Info. : TO-3P, TO-92, TO-92CR, TO-92UR, TO-92-2L, TO-220A, TO-220B, TO-220AB, TO-220C, TO-220C-2L, TO-251, TO-252, TO-220F, TO-220FP, TO-220FP-2L, TO-220HF, SOT-223, TO-247, TO-247J-2L, TO-247S, TO-247J, ITO-247, TO-263, DO-218AB, SMT0-218Tab, DO-15, DO-27, DO-41, SOD-123FL, SOD-123FLT, SOD-123, SMA, SMB, SMBF, R6, ABS, DBS, GBJ, GBU, KBP, MBF, MBS, SGBJ, SMD-4032, SMD-3225, SMT-4, SMTF, SMT, SMTJ, SMC-3, TO-277B

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-020094 - GZ

Internal Reference No. : 15943593

Date of Sample Received : 19 Apr 2022

Testing Period : 19 Apr 2022 - 25 Apr 2022

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen  
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory.

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Test Result(s) :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-071022.003	Black material w/ chip
SN2	CAN22-071022.004	Silvery metal
SN3	CAN22-071022.005	Black body(mixed)

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Elemental analysis, Hexavalent Chromium(Cr(VI)), Flame Retardants, Phthalates

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Unit	MDL	005
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	20984
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	8	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Tetrabromodiphenyl ether	mg/kg	5	ND
Pentabromodiphenyl ether	mg/kg	5	ND
Hexabromodiphenyl ether	mg/kg	5	ND
Heptabromodiphenyl ether	mg/kg	5	ND
Octabromodiphenyl ether	mg/kg	5	ND
Nonabromodiphenyl ether	mg/kg	5	ND
Decabromodiphenyl ether	mg/kg	5	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND

### Elemental analysis, Hexavalent Chromium(Cr(VI))

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	16
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	µg/cm <sup>2</sup>	0.10	ND

#### Notes :

- (1) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination
- Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

### Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	120
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

### Polyvinyl Chloride(PVC)

Test Method : SGS In-house method (SGS-CCL-TOP-066-01), analysis was performed by FTIR.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Polyvinyl Chloride (PVC)	9002-86-2	-	-	Negative

Notes :

(1) Negative=Undetectable,Positive=Detectable

Remark: The sample(s) 005 was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (  $w=0$  ) stated in ILAC-G8:09/2019.

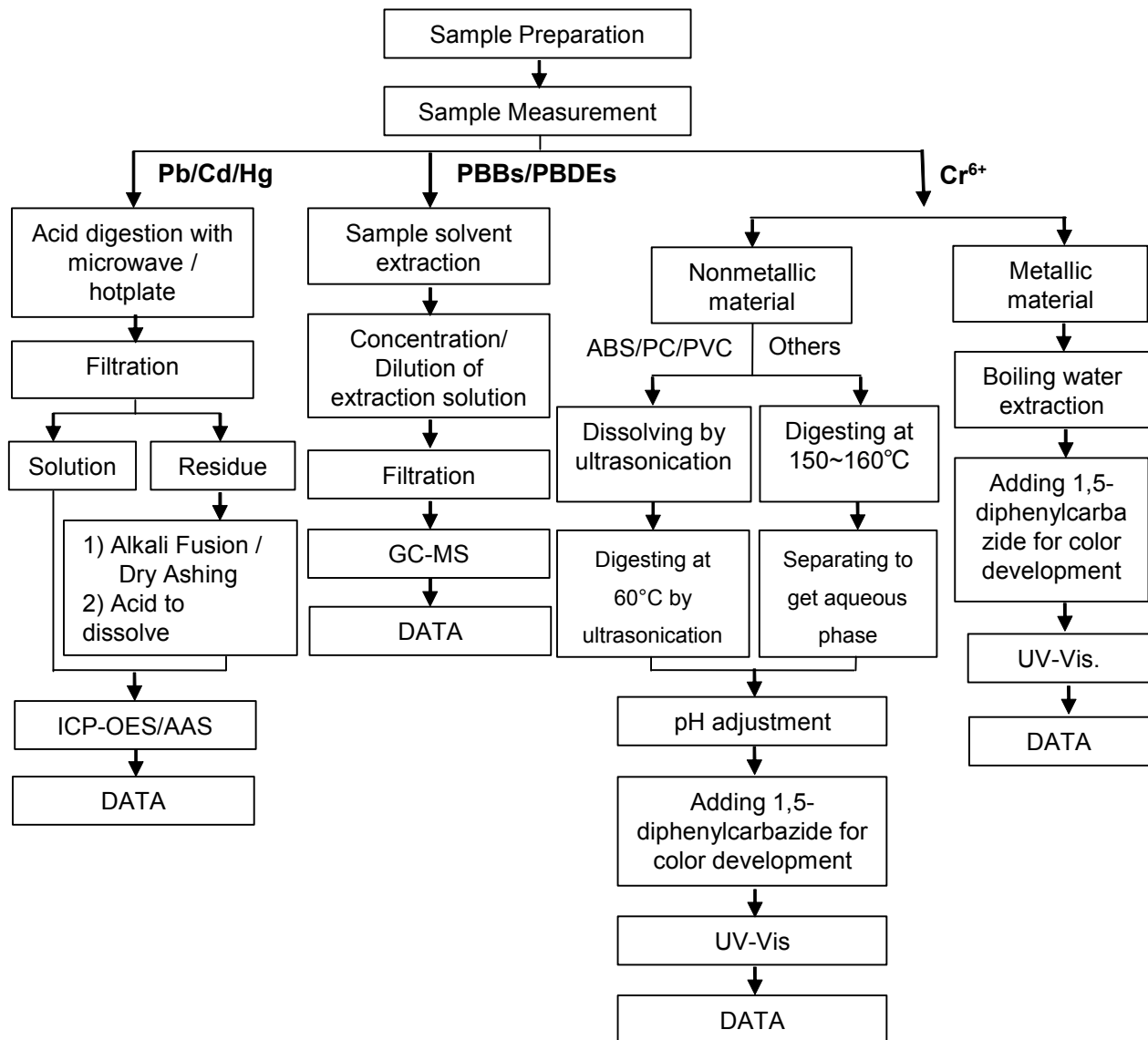




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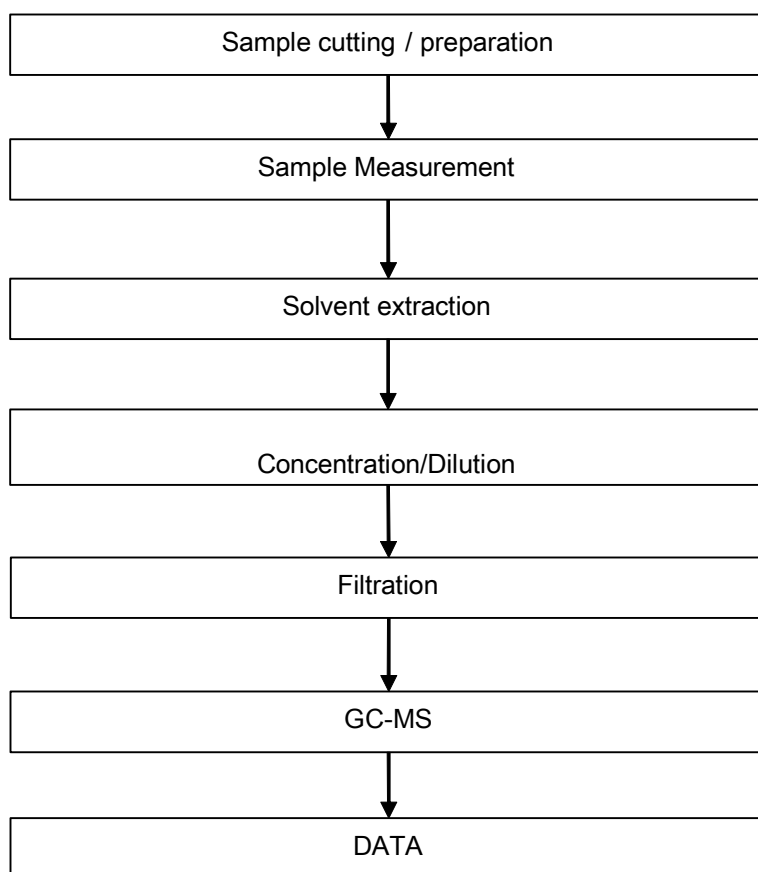
#### Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



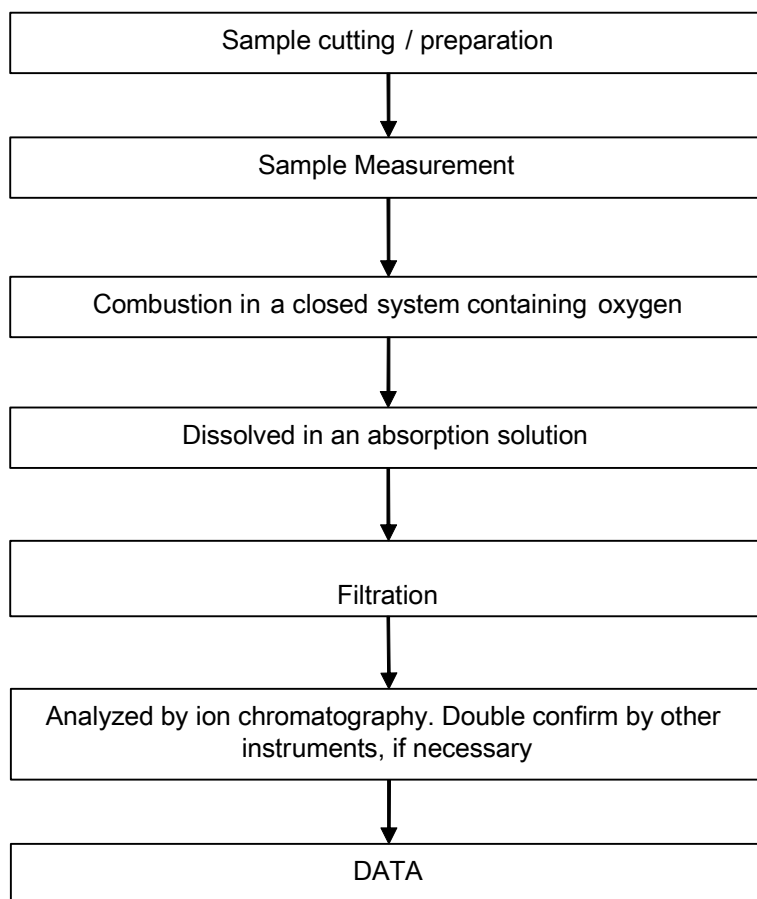
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### Phthalates Testing Flow Chart



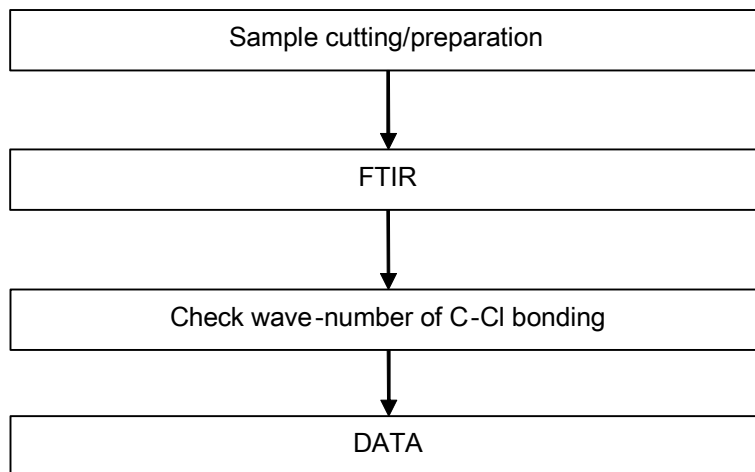
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### Halogen Testing Flow Chart



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### PVC Testing Flow Chart





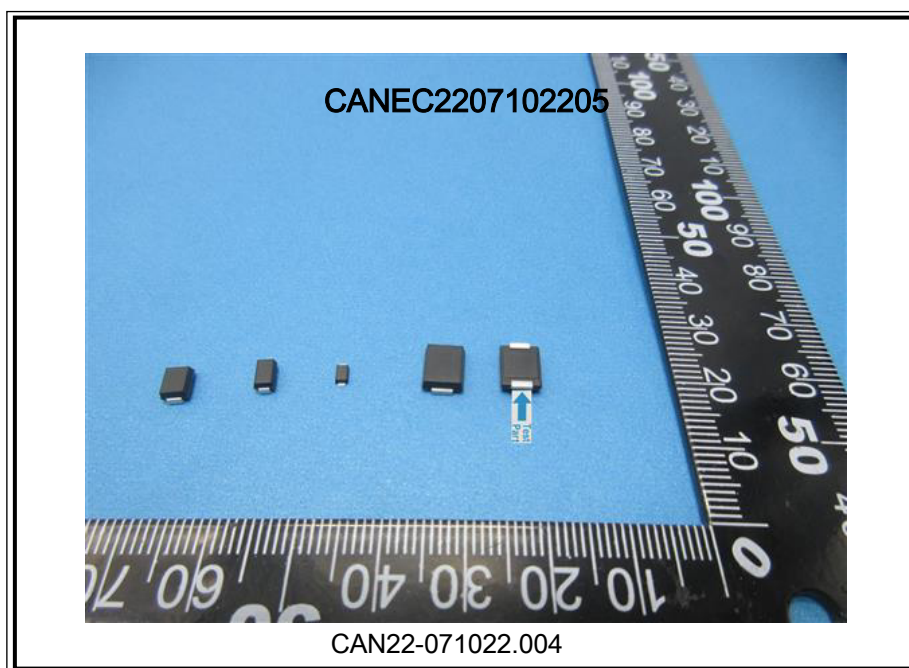
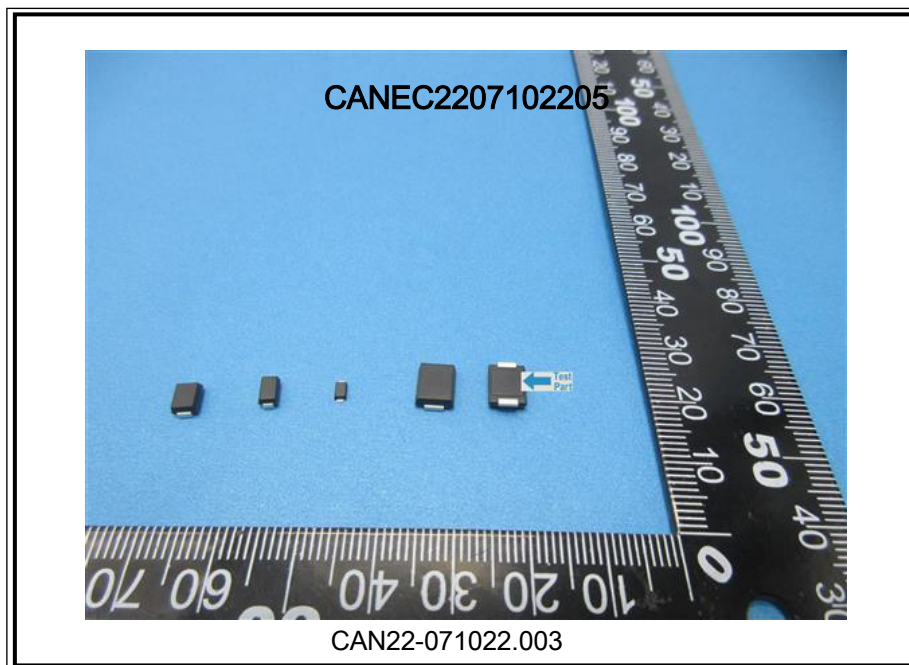
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Sample photo:



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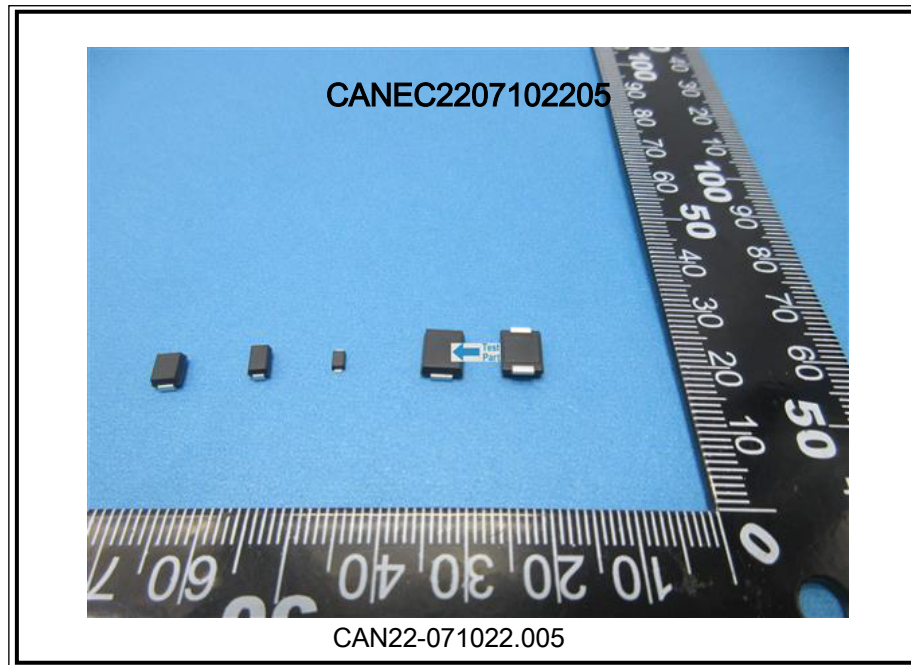
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