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SMS-51-L-SFT-FX-111

	김종환		변경수		정

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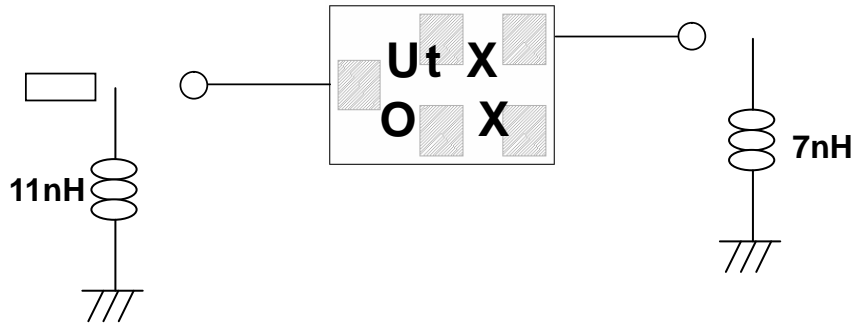


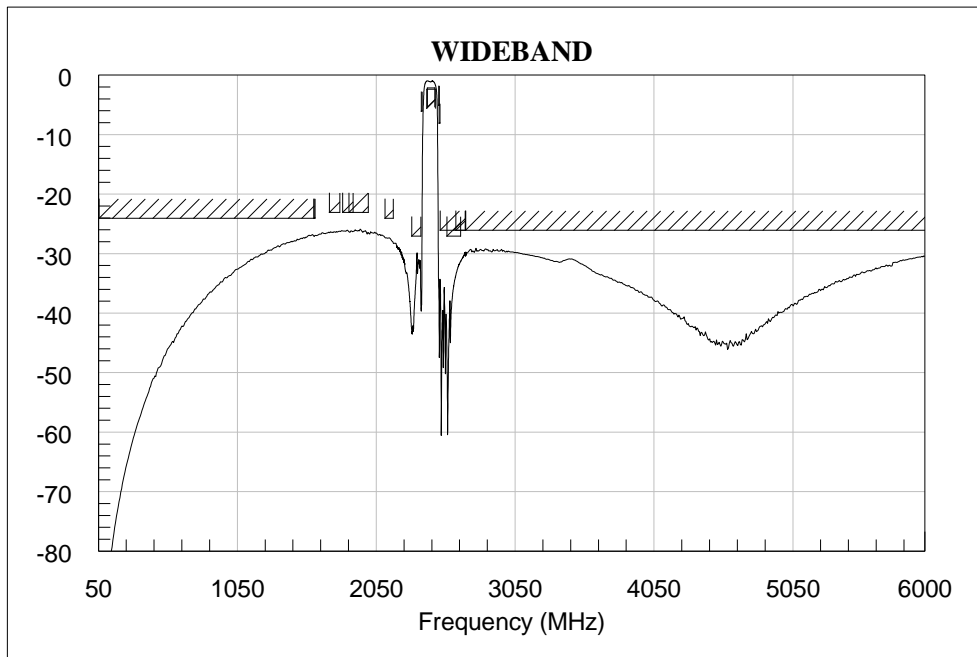
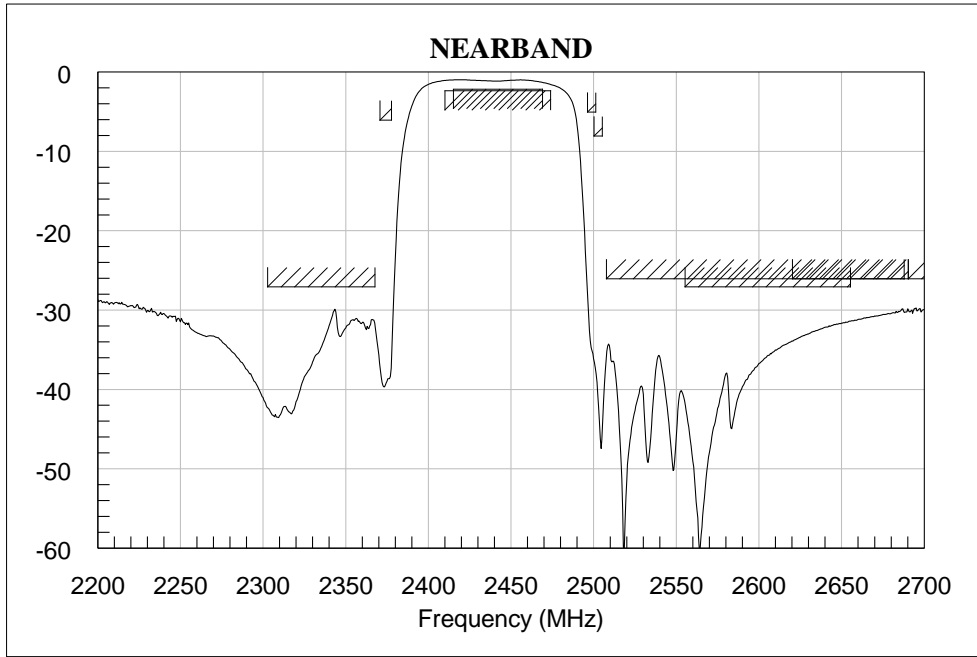


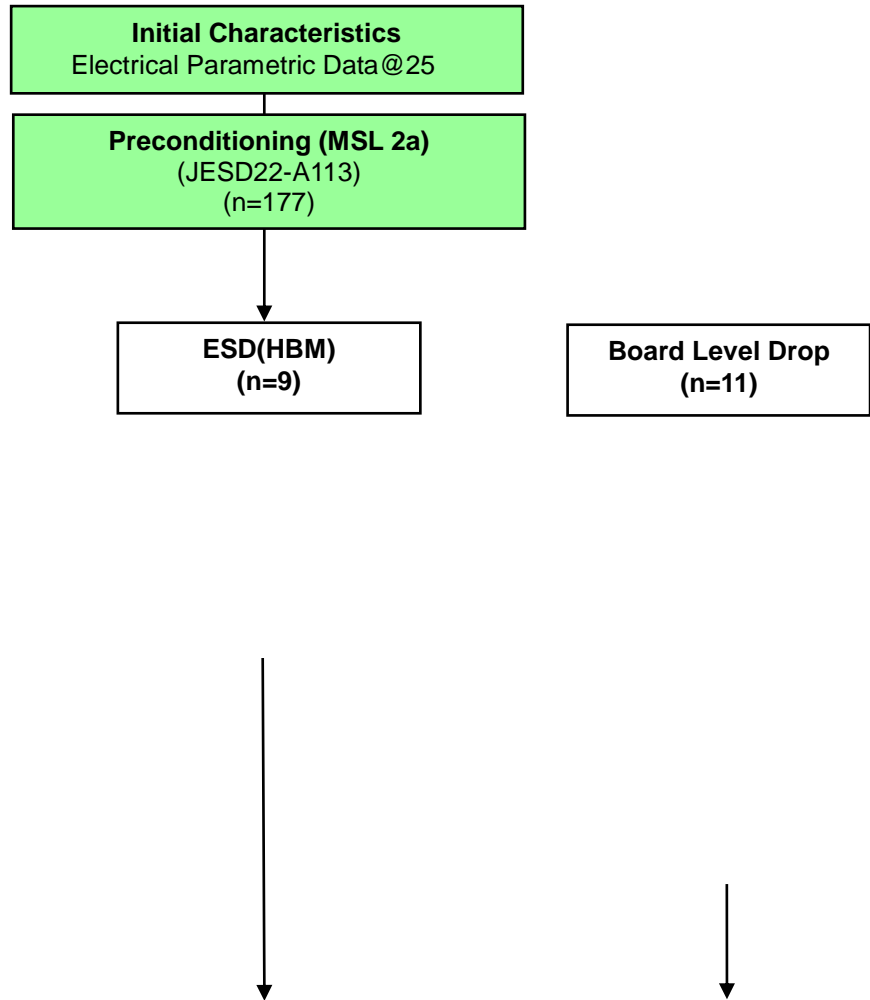
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	Item	FREQUENCY RANGE [MHz]	UNIT	SPECIFICATION	°C Note
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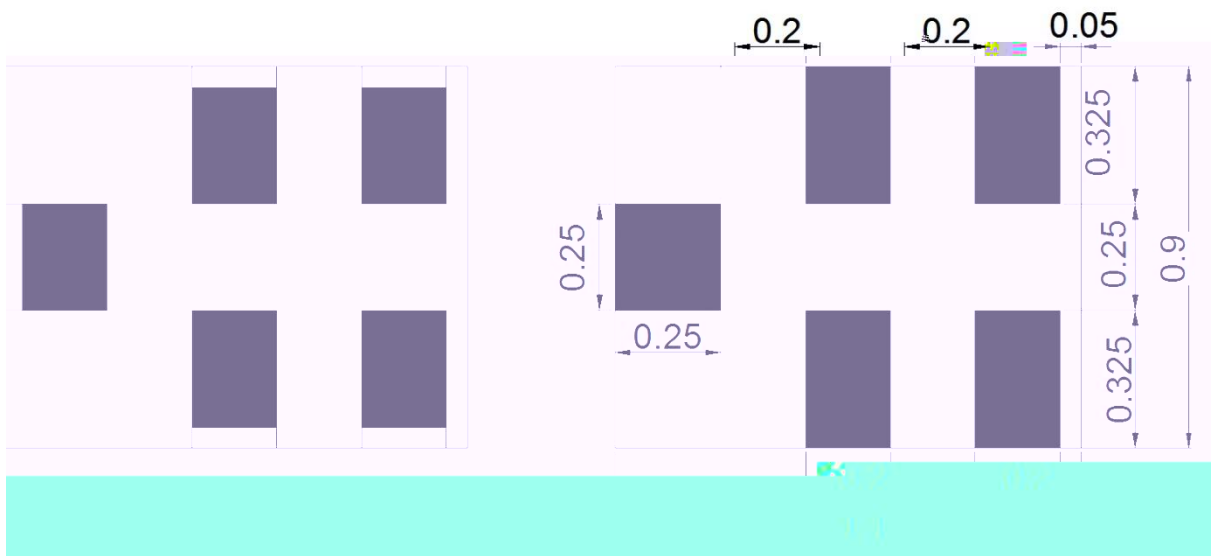
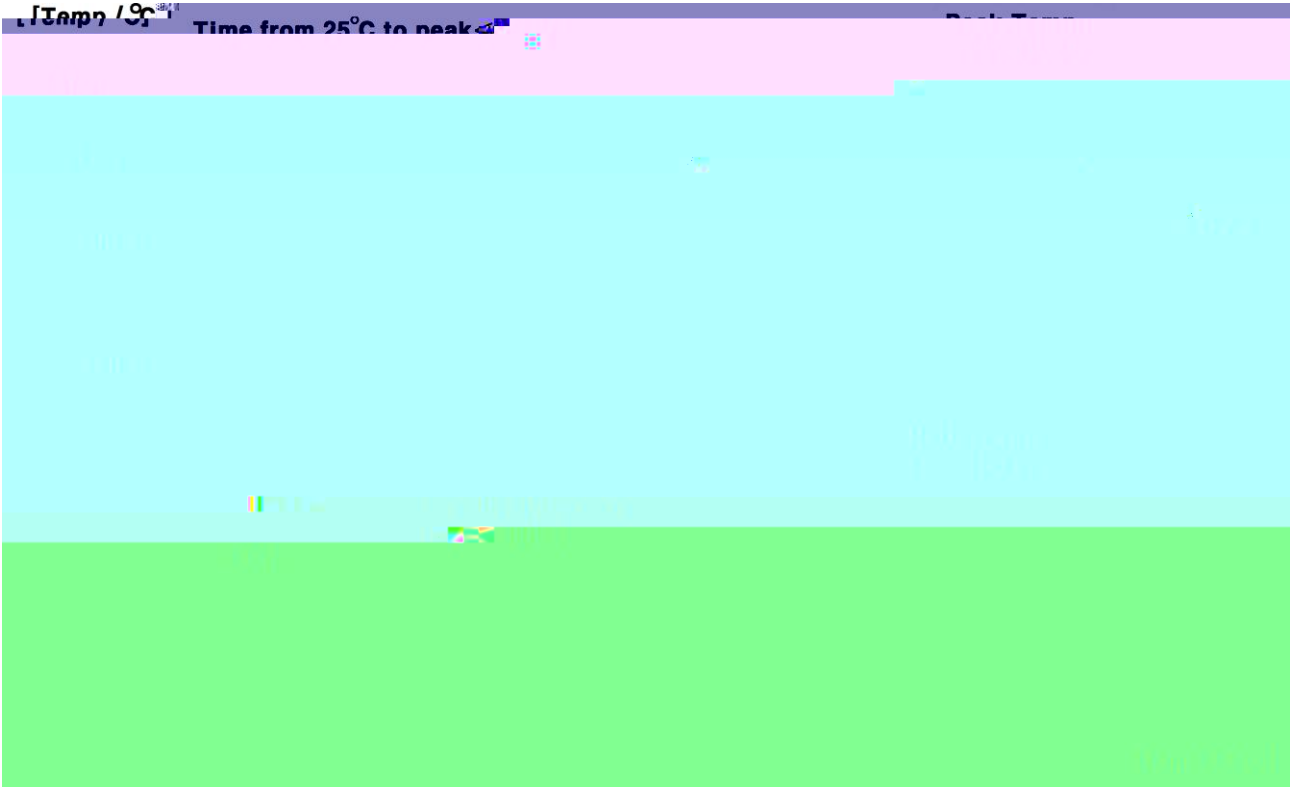




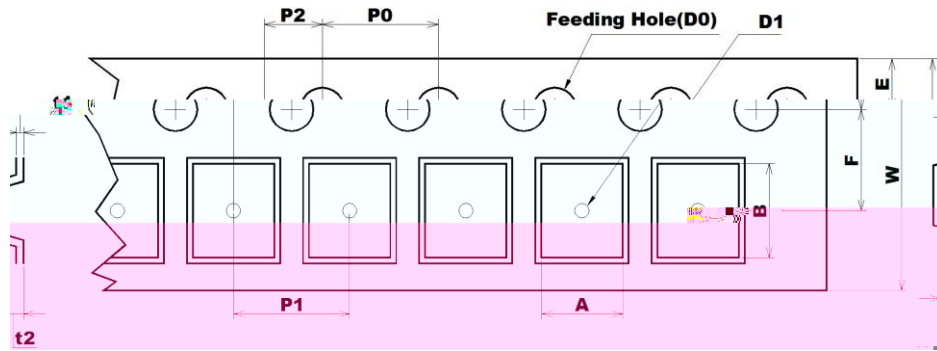


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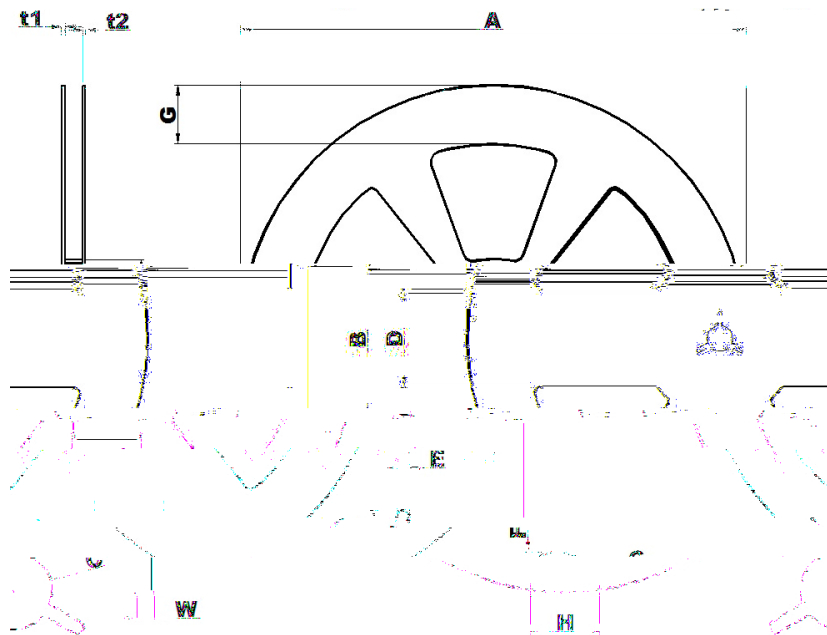




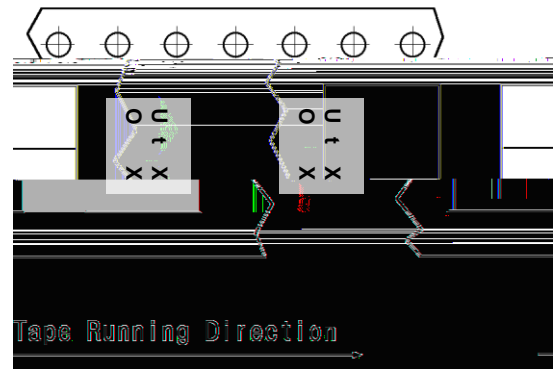
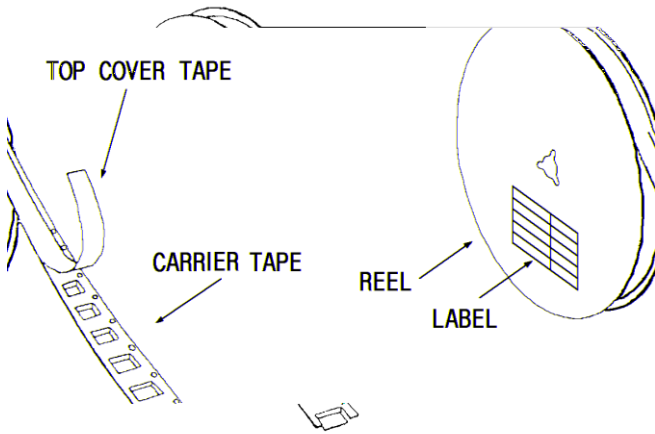




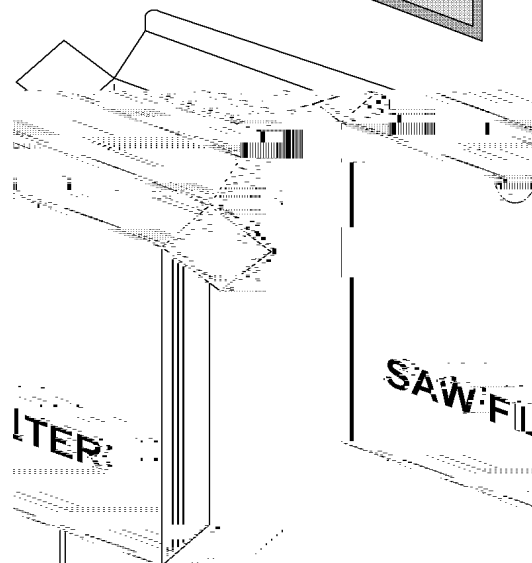
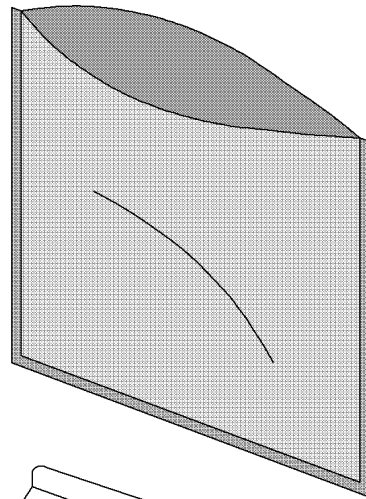
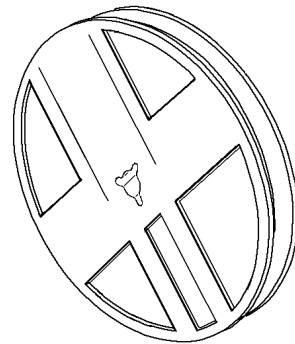
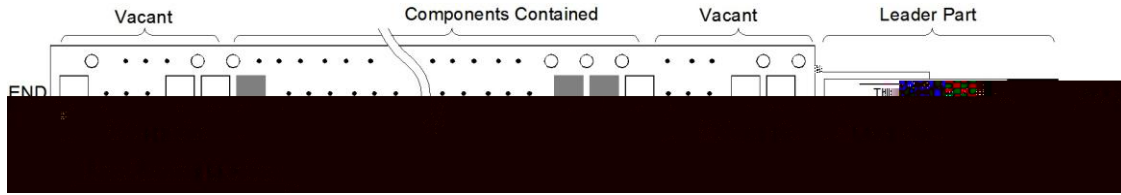
A	B	D0	D1	E	F	P0	P1	P2	t1	t2	W
1.08	1.23	Ø1.50	Ø0.50	1.75	3.50	4.00	4.00	2.00	0.23	0.70	8.00
0.05	0.05	0.10	0.01	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.30
0.05	0.05	0.00		0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.10

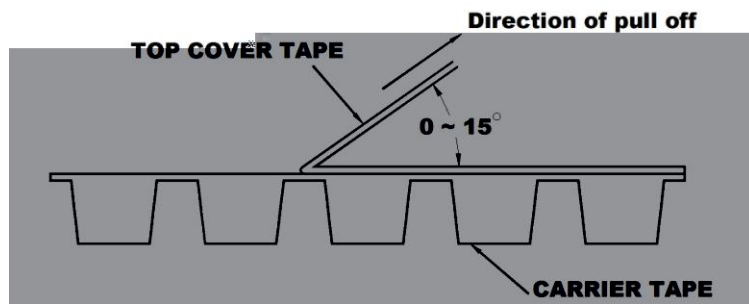


A	B	C	D	E	F	G	H	t1	t2	W
Ø258.0	Ø81.0	Ø13.0	50.0	2.2	7.0	30.0	35.0	1.8	1.5	9.0
+1.0	+1.0	+0.5	+0.8	+0.3	+0.5	+0.8	+1.0	+0.5	+0.5	+1.0
-0.5	-1.0	-0.5	-0.8	-0.3	-0.5	-0.8	-1.0	-0.5	-0.5	-0.5



1-3-3. Leader part and vacant position specifications.







Test Report No. F690101/LF-CTSAYAA17-25974

Issued Date : 2017. 05. 10

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WISOL CO., LTD.
28-40, Gajangsaneopdong-ro



Sample Description
4.00g

Buyer's name of the product is --

The following sample(s) was/were submitted and certified

SGS File No	: AYAA17-25974
Product Name	: SAW FILTER
Item No./Part No	: N/A
Buyer(s)	: SAMSUNG
Received Date	: 2017. 05. 02
Test Period	: 2017. 05. 02 to 2017. 05. 02
Test Results	: For further details, please refer to following page(s)

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refer to following page(s)

SGS Korea Co., Ltd.

Jeff Jang / Chemical Lab Mgr

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Sample No. : AYAA17-25974.001

Sample Description : ...

Reference : ...

Method : ...

Test Items	Unit	Test Method	MDL	Results
Tricresyl phosphate	mg/kg	With reference to EN 14582, IC (Detect limit of 30 mg/kg and 30 mg/kg)	30	N.D.
Diisodecyl phthalate	mg/kg	With reference to EN 14582, IC (Detect limit of 30 mg/kg and 30 mg/kg)	30	N.D.
Diethylhexyl phthalate	mg/kg	With reference to EN 14582, IC (Detect limit of 30 mg/kg and 30 mg/kg)	30	N.D.
Diisodecyl phthalate	mg/kg	With reference to EN 14582, IC (Detect limit of 30 mg/kg and 30 mg/kg)	30	N.D.

Test Method	MDL	Results
With reference to EN 14582, IC	30	N.D.
With reference to EN 14582, IC	30	N.D.

Test Items	Unit
Bromine(Br)	mg/kg
Chlorine(Cl)	mg/kg

NOTE: (1) N.D. = Not detected. (<MDL)
 (2) mg/kg = ppm
 (3) MDL = Method Detection Limit
 (4) - = No regulation
 (5) Negative = Undetectable / Positive = Detected
 (6) ** = Qualitative analysis (No Unit)
 (7) * = a. The sample is positive for CrVI if the is considered to contain CrVI.

CrVI concentration is greater than 0.13 ug/cm2. The sample coating

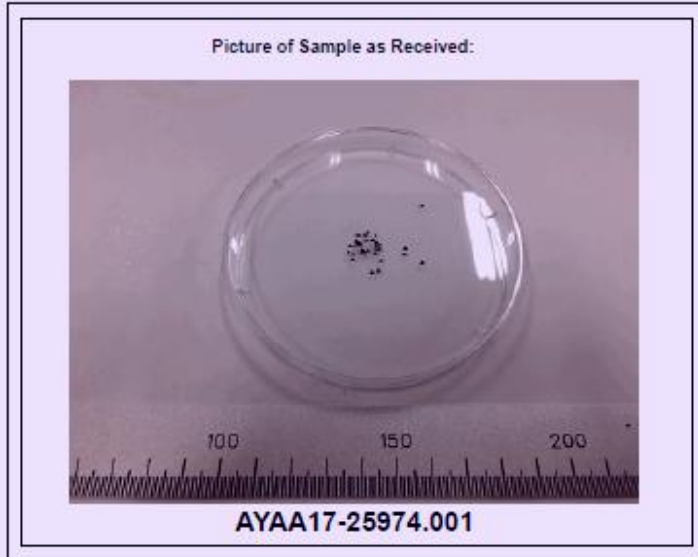
Test Items	Unit	Results
Chromium(VI)	ug/cm2	0.13



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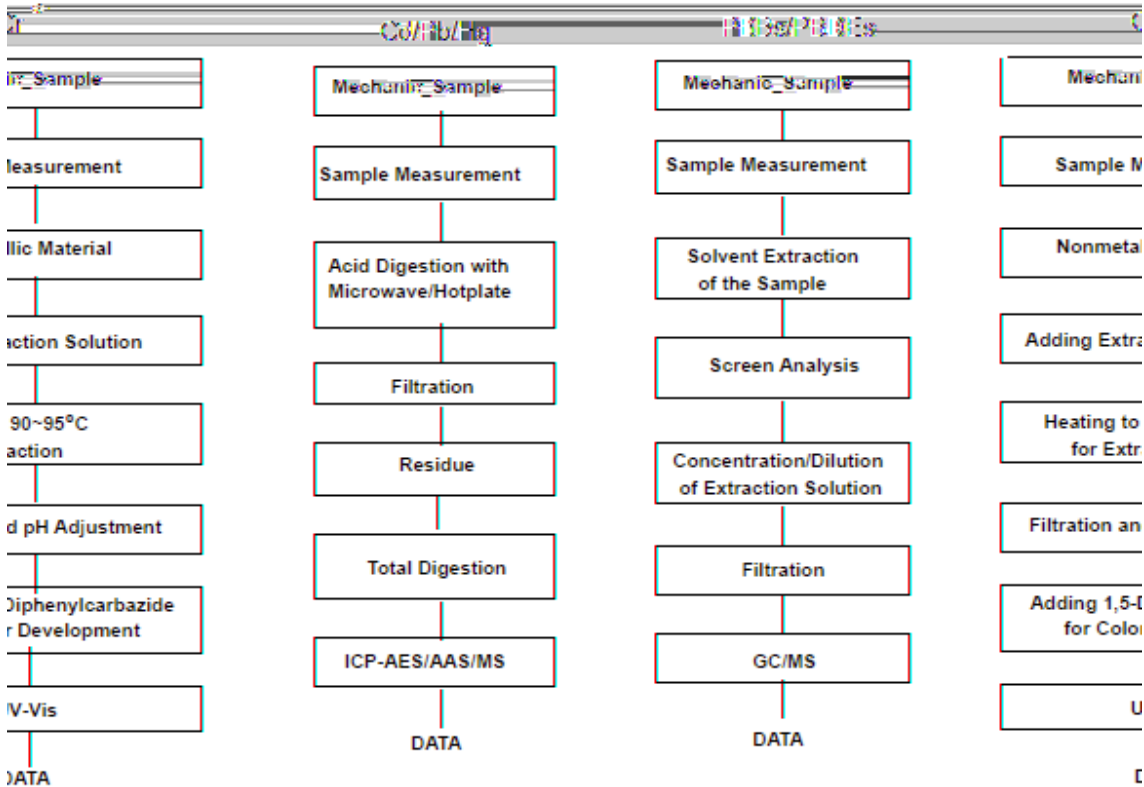


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Testing Flow Chart for Pb, Hg, Cd, Ni, Hg, Cr⁶⁺, DPPe & DPPFe Testing



Pb, Hg.

The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd, Section Chief : Gilsae Yi

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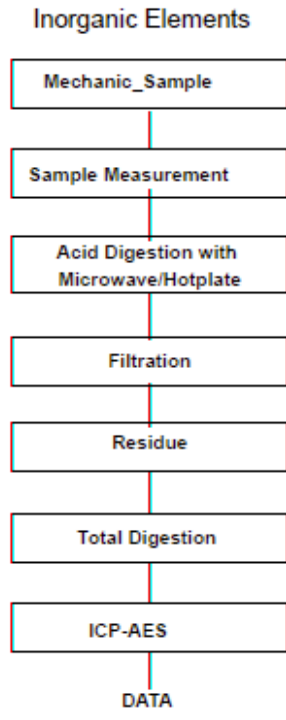
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Flow Chart for Inorganic Elements Testing



Major Inorganic Heavy Metals	Antimony(Sb) , Beryllium(Be) , Phosphorus(P) , Arsenic(As) etc.
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