

Test Report **SL52105244289401TX** **Date: March 29, 2021** **Page 1 of 78**
SHENZHEN HJR ELECTRONICS TECHNOLOGY CO., LTD.

5 / F BUILDING A3 XINJIANXING SCIENCE AND TECHNOLOGY INDUSTRIAL PARK, NO. 3333,
GUANGQIAO AVENUE, GONGMING STREET, GUANGMING NEW DISTRICT, SHENZHEN CITY,
GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A-AH) Particle filtering half mask

Sample Color : (A)Black; (AA)sapphire; (AB)New Light Yellow; (AC)Rose red; (AD)aurantium;
(AE)Purplish red; (AF)Watermelon red; (AG)Dull blue; (AH)khaki; (B)Yellow;
(C)Cream-colored; (D)Deep powder; (E)Dark Grey; (F)Light Grey; (G)Dark blue;
(H)Army Green; (I)Navy blue; (J)Deep purple; (K)Claret; (L)Light pink; (M)Dark
brown; (N)Blue green; (O)Fruit green; (P)Scarlet; (Q)Light yellow; (R)Pink; (S)Medical
blue; (T)New light green; (U)Deep Apricot Yellow; (V)Orange; (W)Yellow fruit green;
(X)New light purple; (Y)Light purple; (Z)Dark green

Composition : (A)Polypropylene Melt-blown; (AA)Polypropylene Melt-blown; (AB)Polypropylene
Melt-blown; (AC)Polypropylene Melt-blown; (AD)Polypropylene Melt-blown;
(AE)Polypropylene Melt-blown; (AF)Polypropylene Melt-blown; (AG)Polypropylene
Melt-blown; (AH)Polypropylene Melt-blown; (B)Polypropylene Melt-blown;
(C)Polypropylene Melt-blown; (D)Polypropylene Melt-blown; (E)Polypropylene Melt-
blown; (F)Polypropylene Melt-blown; (G)Polypropylene Melt-blown; (H)Polypropylene
Melt-blown; (I)Polypropylene Melt-blown; (J)Polypropylene Melt-blown;
(K)Polypropylene Melt-blown; (L)Polypropylene Melt-blown; (M)Polypropylene Melt-
blown; (N)Polypropylene Melt-blown; (O)Polypropylene Melt-blown; (P)Polypropylene
Melt-blown; (Q)Polypropylene Melt-blown; (R)Polypropylene Melt-blown;
(S)Polypropylene Melt-blown; (T)Polypropylene Melt-blown; (U)Polypropylene Melt-
blown; (V)Polypropylene Melt-blown; (W)Polypropylene Melt-blown; (X)Polypropylene
Melt-blown; (Y)Polypropylene Melt-blown; (Z)Polypropylene Melt-blown

Style No. : HJR-CN99-09

Country of Origin : China

Country of Destination : Europe

Sample Size : 16.5*11cm(±5%)

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 22, 2021

Testing Period : Mar 24, 2021 - Mar 29, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the
sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	black face cover			
A	2	black ear loop			
AA	3	sapphire face cover			
AB	4	yellow ear loop			
AB	5	new light yellow face cover			
AC	6	rose red face cover			
AD	7	aurantium face cover			
AE	8	purplish red face cover			
AF	9	watermelon red face cover			
AG	10	dull blue face cover			
AH	11	khaki face cover			
B	12	yellow face cover			
C	13	cream-colored face cover			
D	14	deep powder face cover			
E	15	dark grey face cover			
F	16	light grey face cover			
G	17	dark blue face cover			
G	18	dark blue ear loop			
H	19	army green face cover			
I	20	navy blue face cover			
I	21	navy blue ear loop			
J	22	deep purple face cover			
K	23	claret face cover			
L	24	light pink face cover			
M	25	dark brown face cover			
N	26	blue green face cover			
N	27	blue green ear loop			
O	28	fruit green face cover			
P	29	scarlet face cover			
Q	30	light yellow face cover			
R	31	pink face cover			
S	32	medical blue face cover			
T	33	new light green face cover			
U	34	deep apricot yellow face cover			
V	35	orange face cover			
W	36	yellow fruit green face cover			
X	37	new light purple face cover			
Y	38	light purple face cover			
Z	39	dark green face cover			



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Test Result

Azo Dyes (Direct Reduction & Colorant Extraction)

Textile: According to EN ISO 14362-1:2017 – Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	Cas No	Result (mg/kg)			
		1+2+3		4+5+6	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#



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Test Item(s)	Cas No	Result (mg/kg)			
		7+8+9		10+11+12	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#



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Test Item(s)	Cas No	Result (mg/kg)			
		13+14+15		16+17+18	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#

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Test Item(s)	Cas No	Result (mg/kg)			
		19+20+21		22+23+24	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#



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Test Item(s)	Cas No	Result (mg/kg)			
		25+26+27		28+29+30	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#



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Test Item(s)	Cas No	Result (mg/kg)			
		31+32+33		34+35+36	
		Direct Reduction	Colorant Extraction	Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ND	ND	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND	ND	ND
O-Anisidine	90-04-0	ND	ND	ND	ND
Conclusion		#	#	#	#

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Test Item(s)	Cas No	Result (mg/kg)	
		Direct Reduction	Colorant Extraction
		37+38+39	
4-Aminobiphenyl	92-67-1	ND	ND
Benzidine	92-87-5	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND
2-Naphthylamine	91-59-8	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND
4-Chloroaniline	106-47-8	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND
p-Cresidine	120-71-8	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND
o-Toluidine	95-53-4	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND
O-Anisidine	90-04-0	ND	ND
Conclusion		#	#

Requirement: 30mg/kg

Note:

ND = Not Detected

Reporting Limit = 5 mg/kg (for individual compound)

Remark:

+Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

+Colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA

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Test Report **SL52105244289401TX** **Date: March 29, 2021** **Page 10 of 78**
(CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

pH Value

(ISO 3071:2020; 0.1mol/L KCL extraction)

	Unit	1	2	3
pH Value	-	9.9	6.9	6.8
	Unit	4	5	6
pH Value	-	6.8	6.5	6.3
	Unit	7	8	9
pH Value	-	6.2	6.6	6.3
	Unit	10	11	12
pH Value	-	6.0	6.0	6.2
	Unit	13	14	15
pH Value	-	6.5	6.3	6.3
	Unit	16	17	18
pH Value	-	6.1	6.1	6.2
	Unit	19	20	21
pH Value	-	6.2	6.1	6.4
	Unit	22	23	24
pH Value	-	6.4	6.4	6.4
	Unit	25	26	27
pH Value	-	6.3	6.3	6.2
	Unit	28	29	30
pH Value	-	6.2	6.5	6.0
	Unit	31	32	33
pH Value	-	6.1	6.0	6.0
	Unit	34	35	36
pH Value	-	6.2	6.2	6.2
	Unit	37	38	39
pH Value	-	6.1	6.0	6.0

Note:

- 1) pH value of extraction medium: 5.7
- 2) Temperature of the extraction solution: 20.3°C



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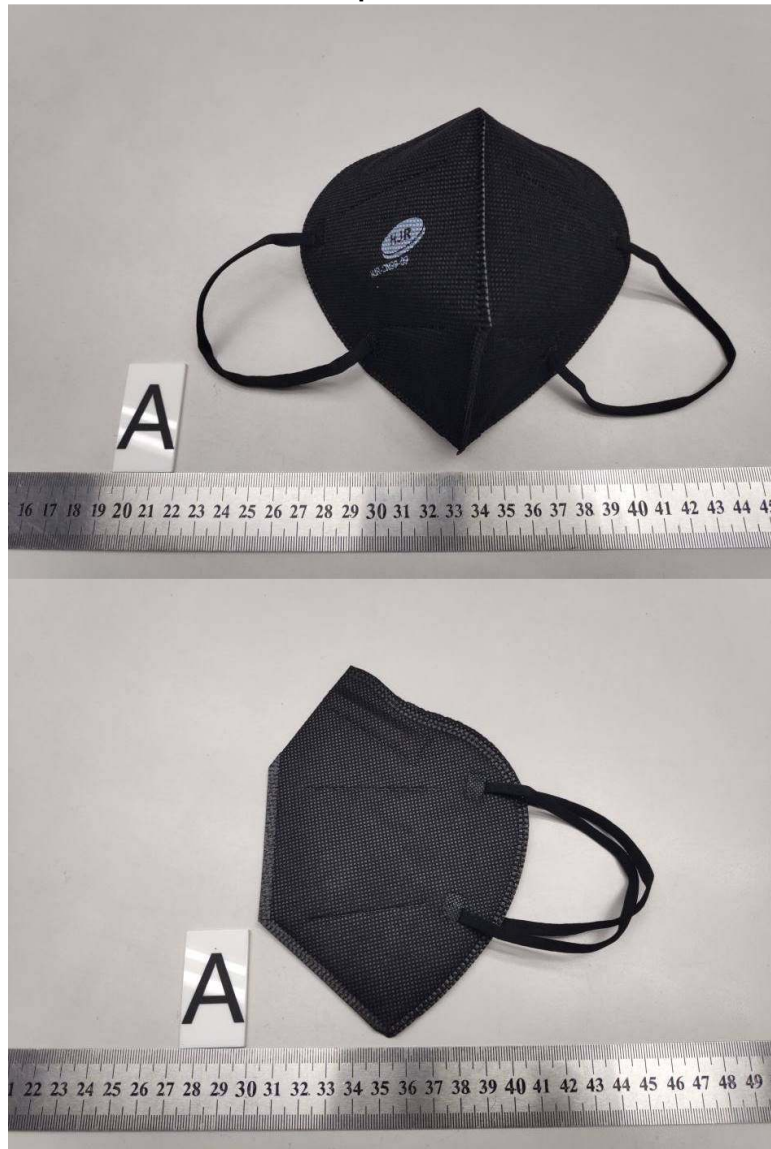
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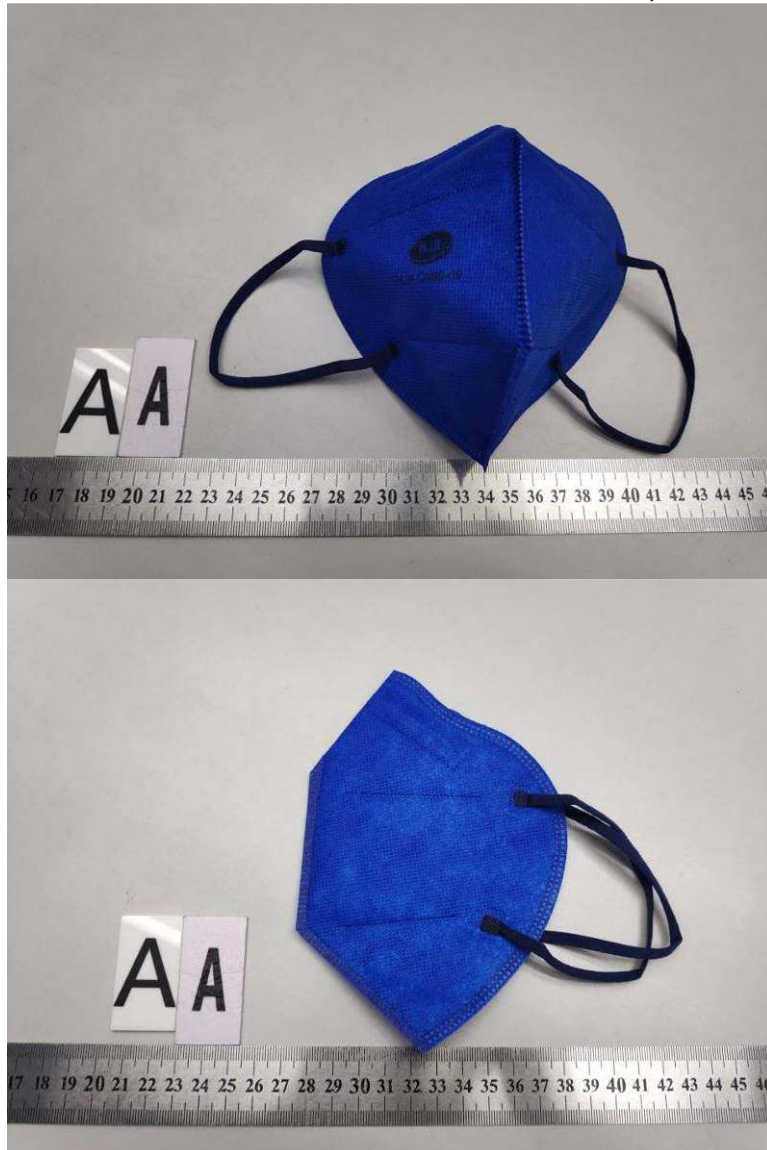
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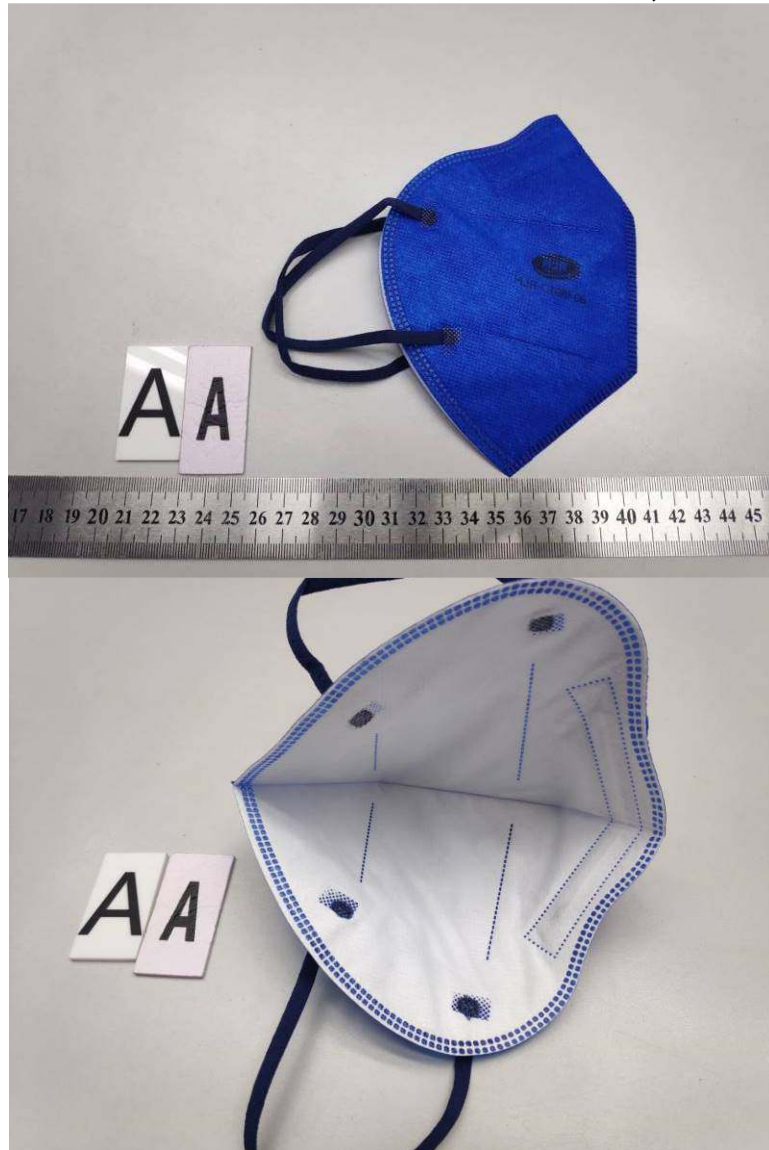
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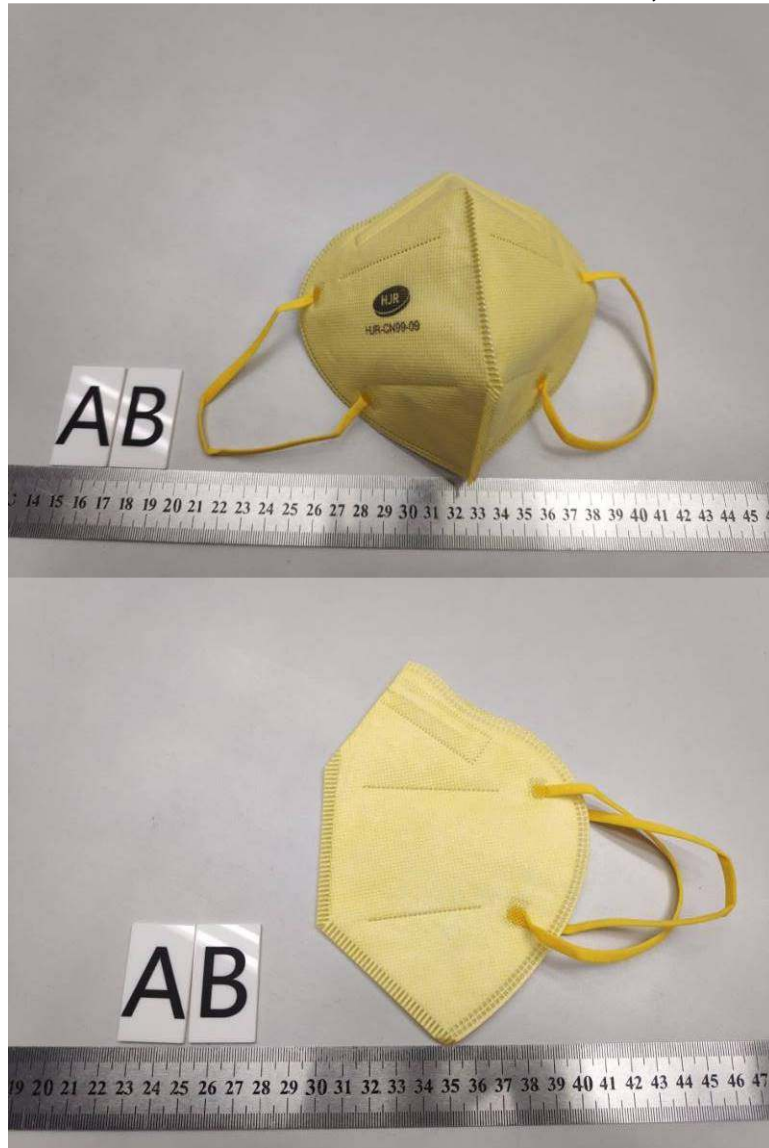
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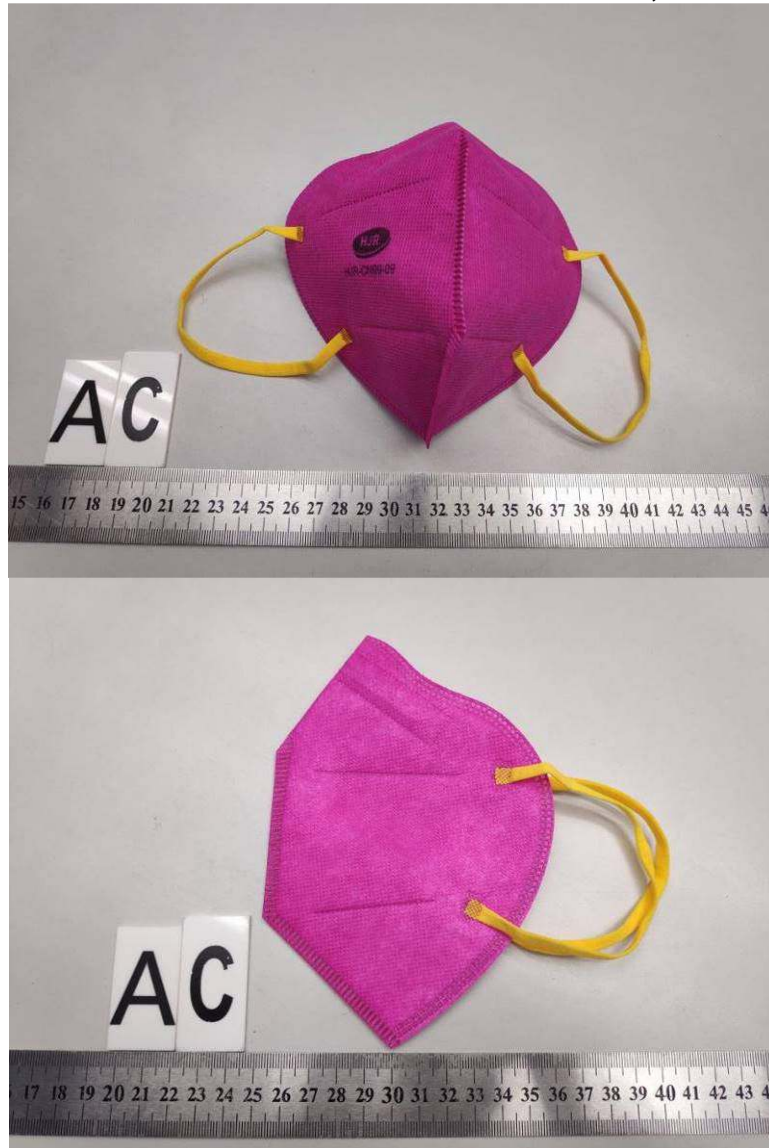


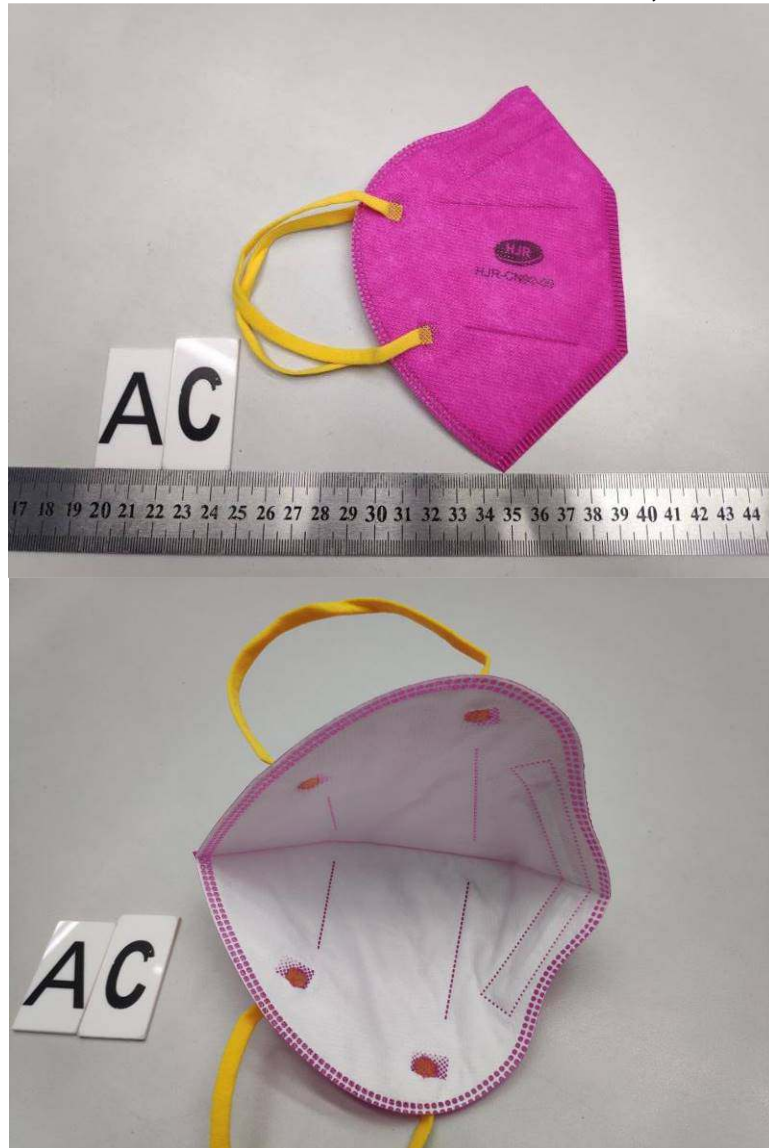


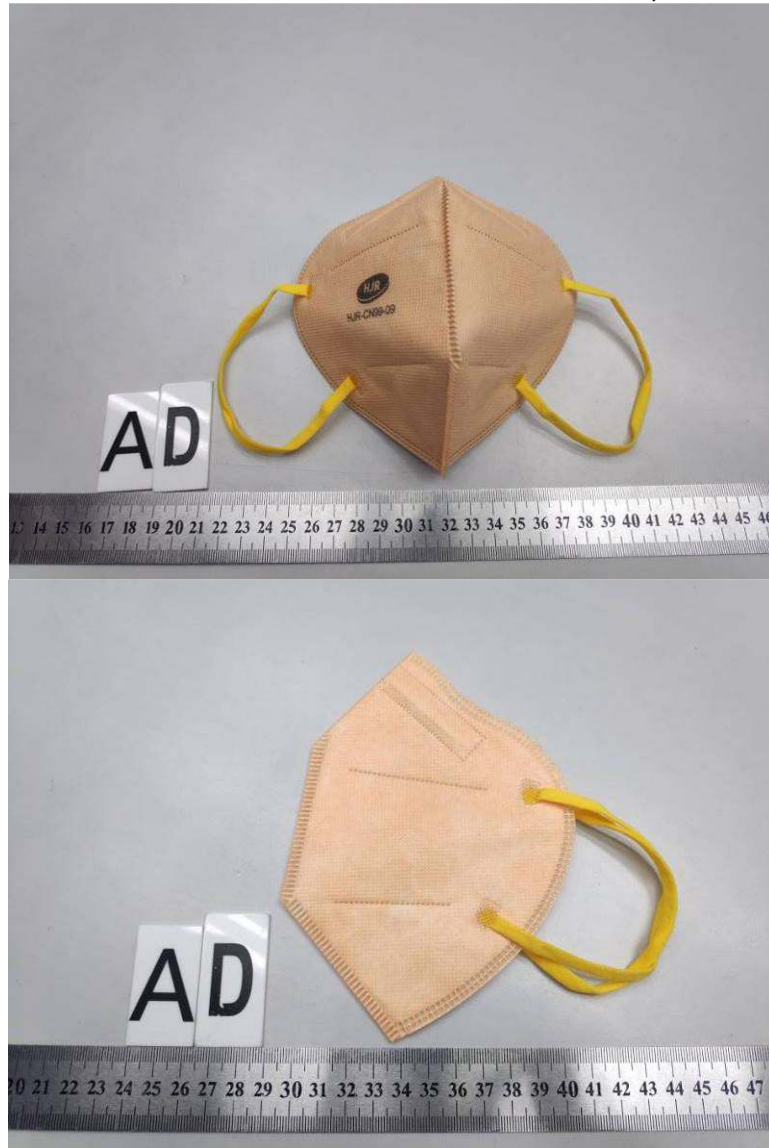


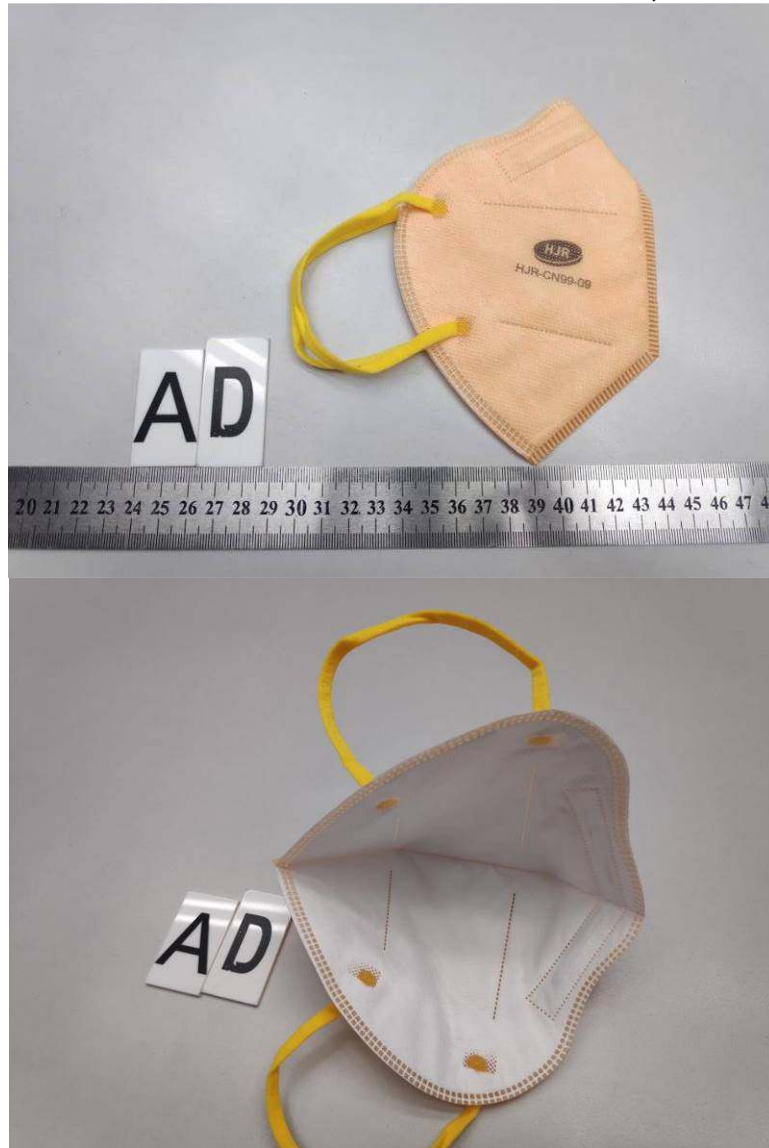


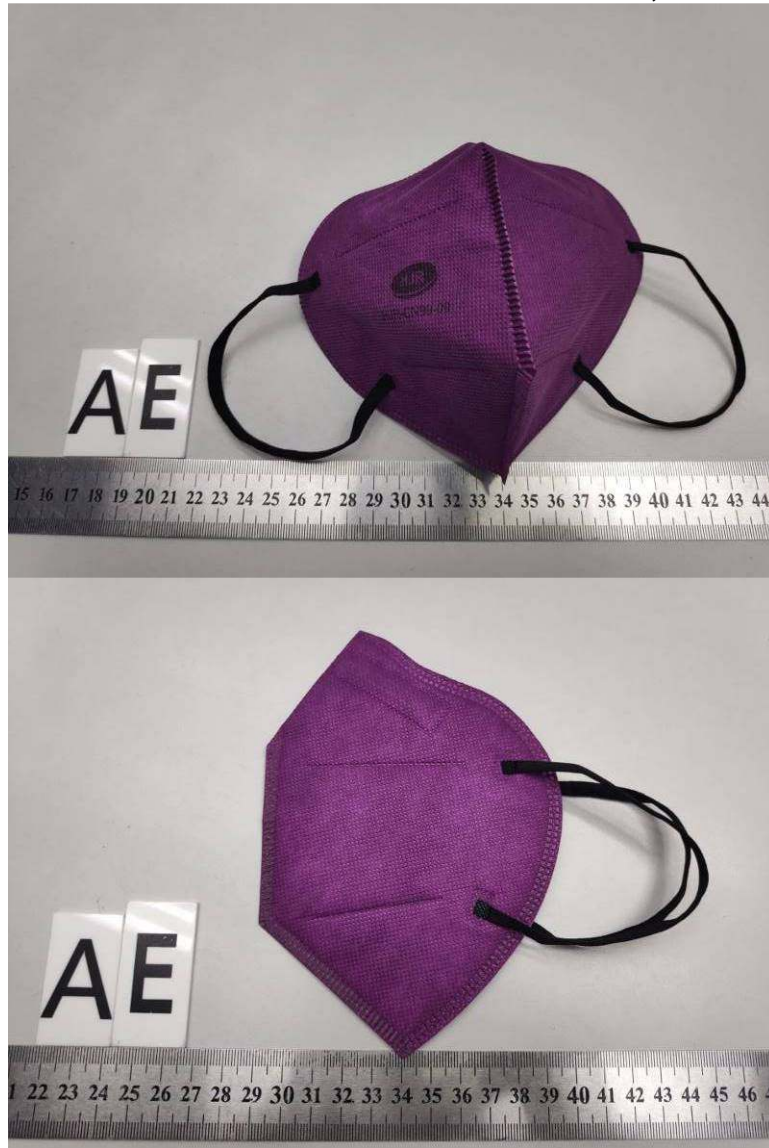


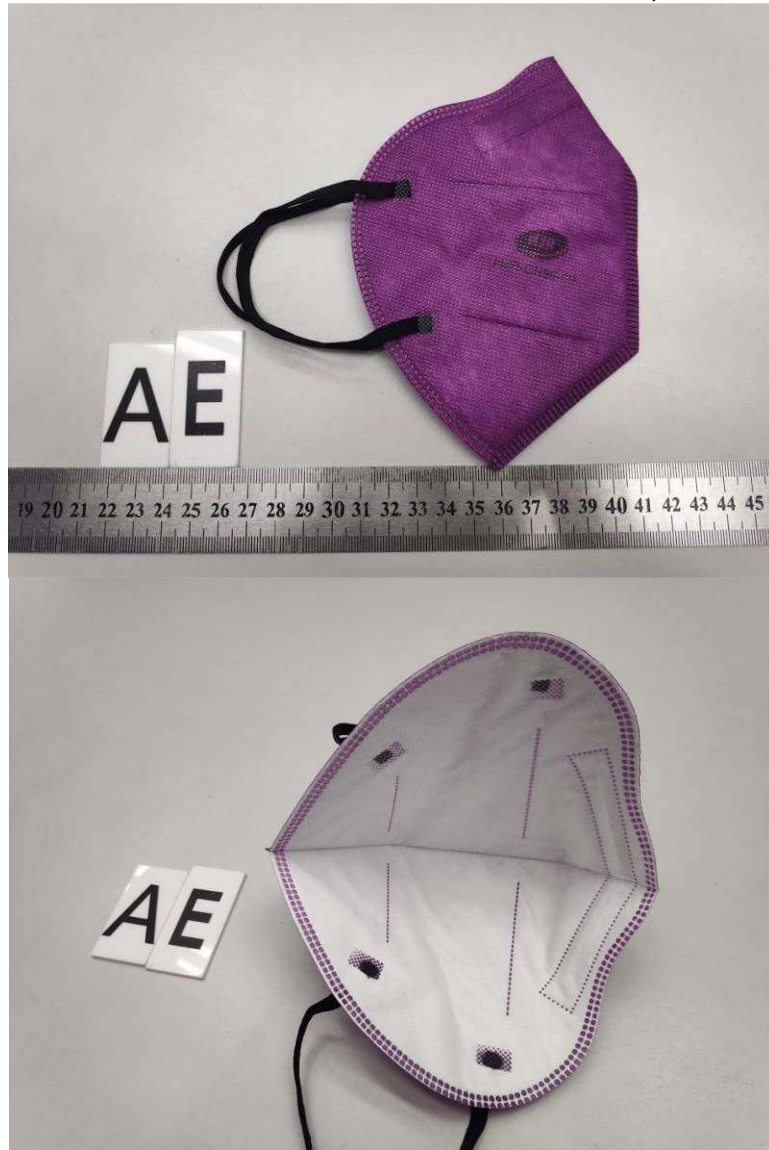


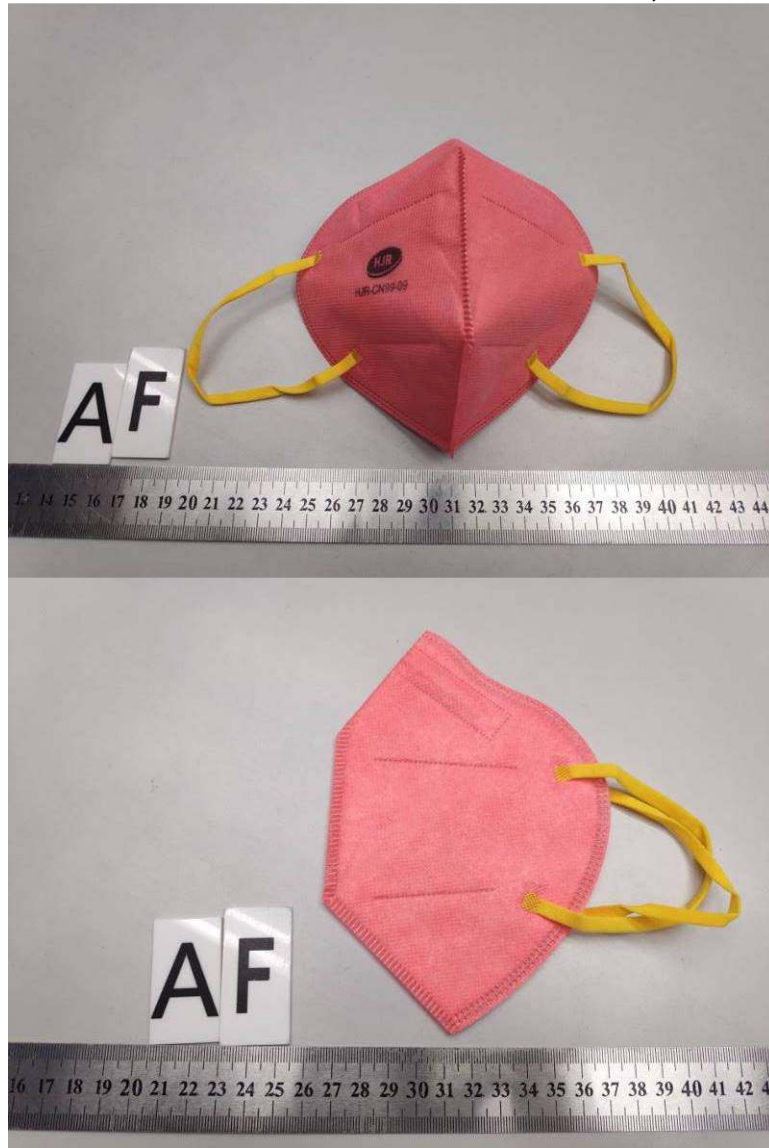


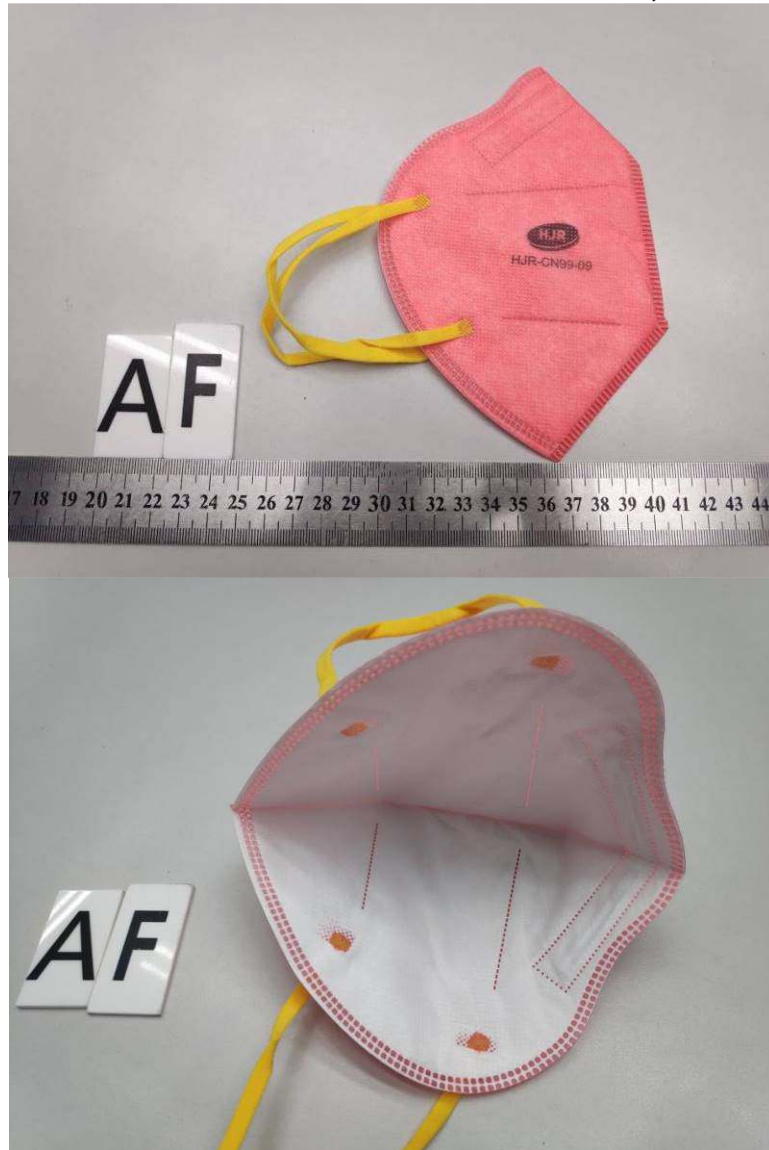












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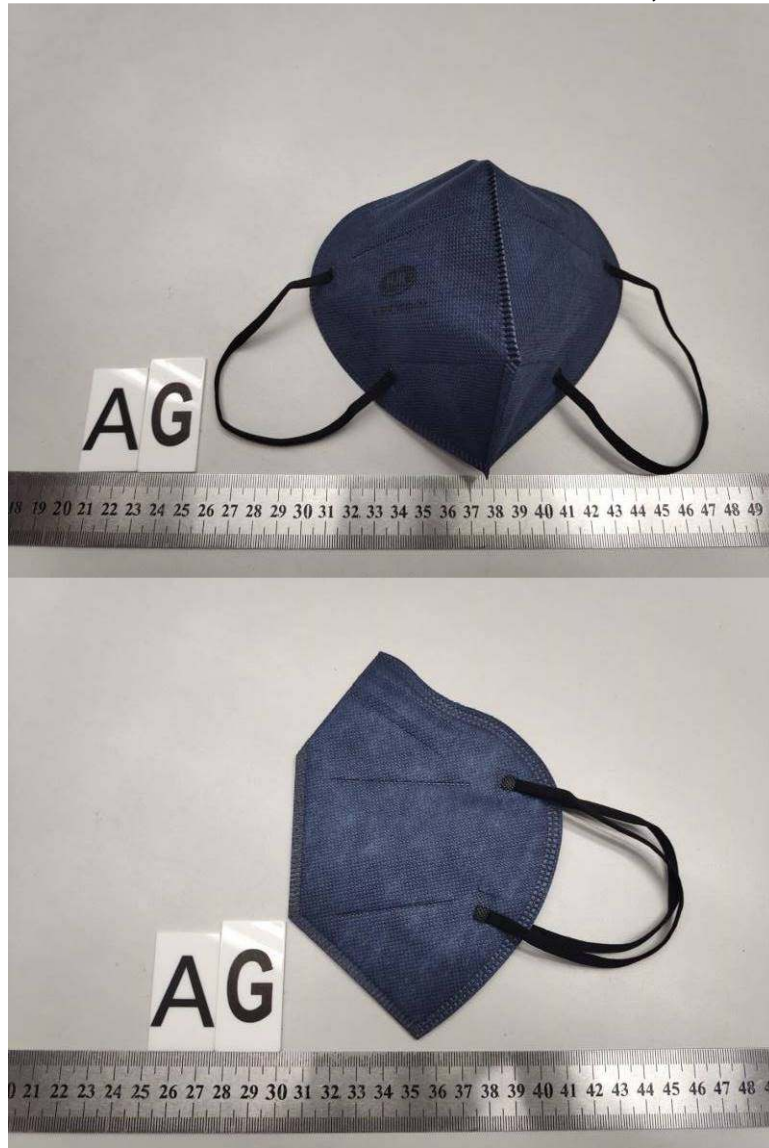
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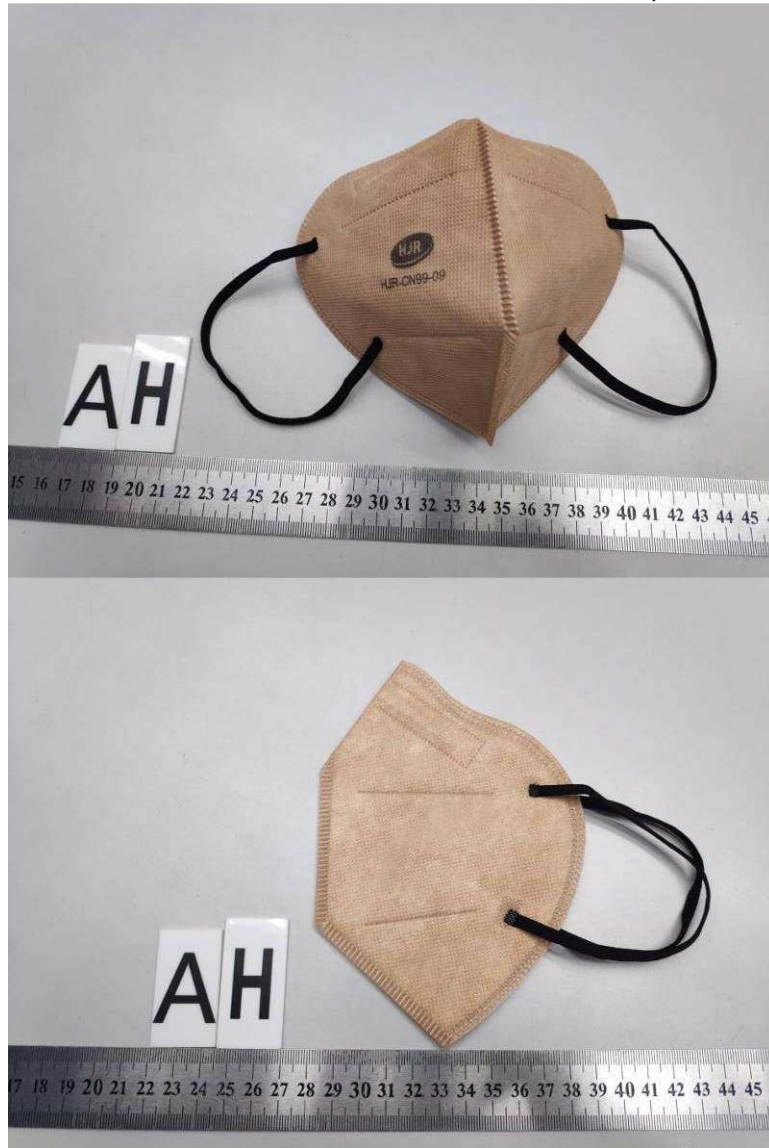
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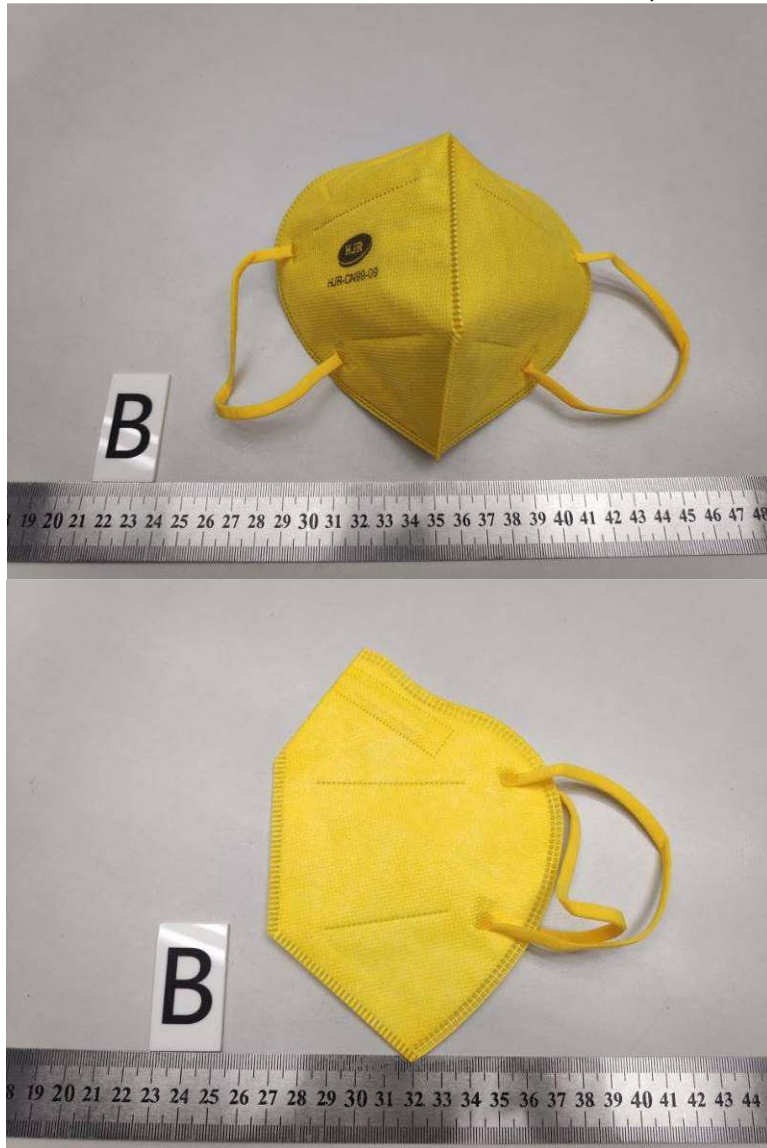




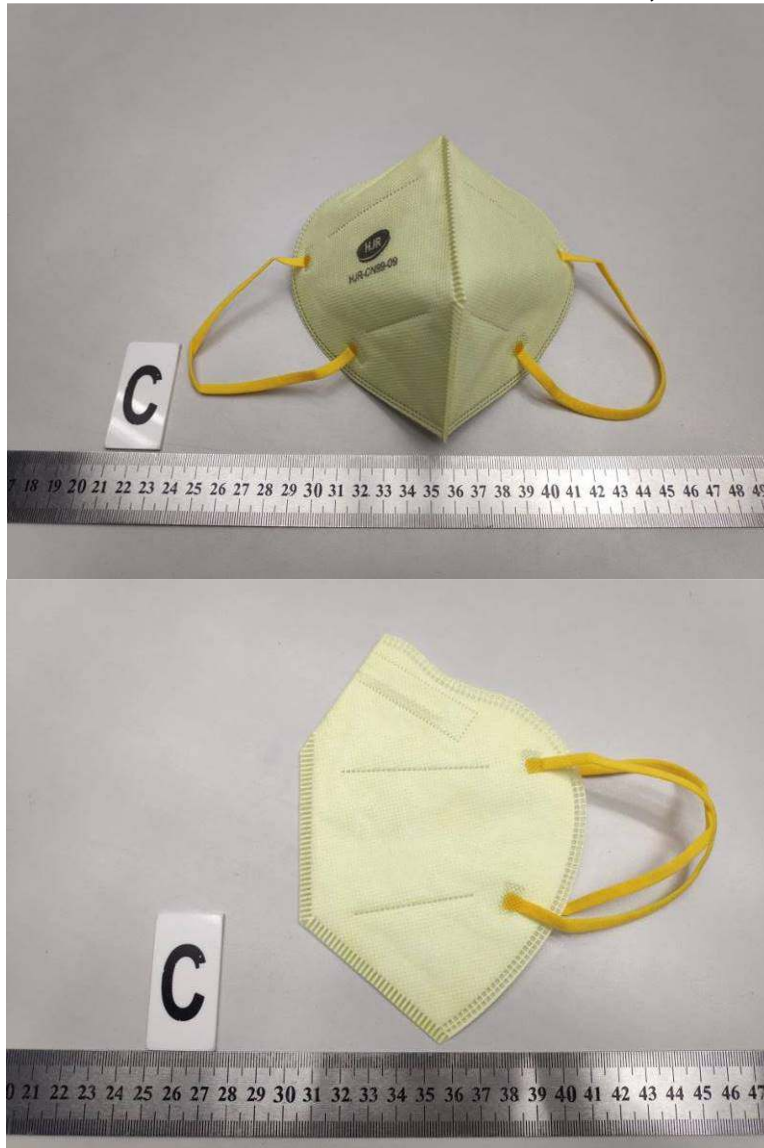




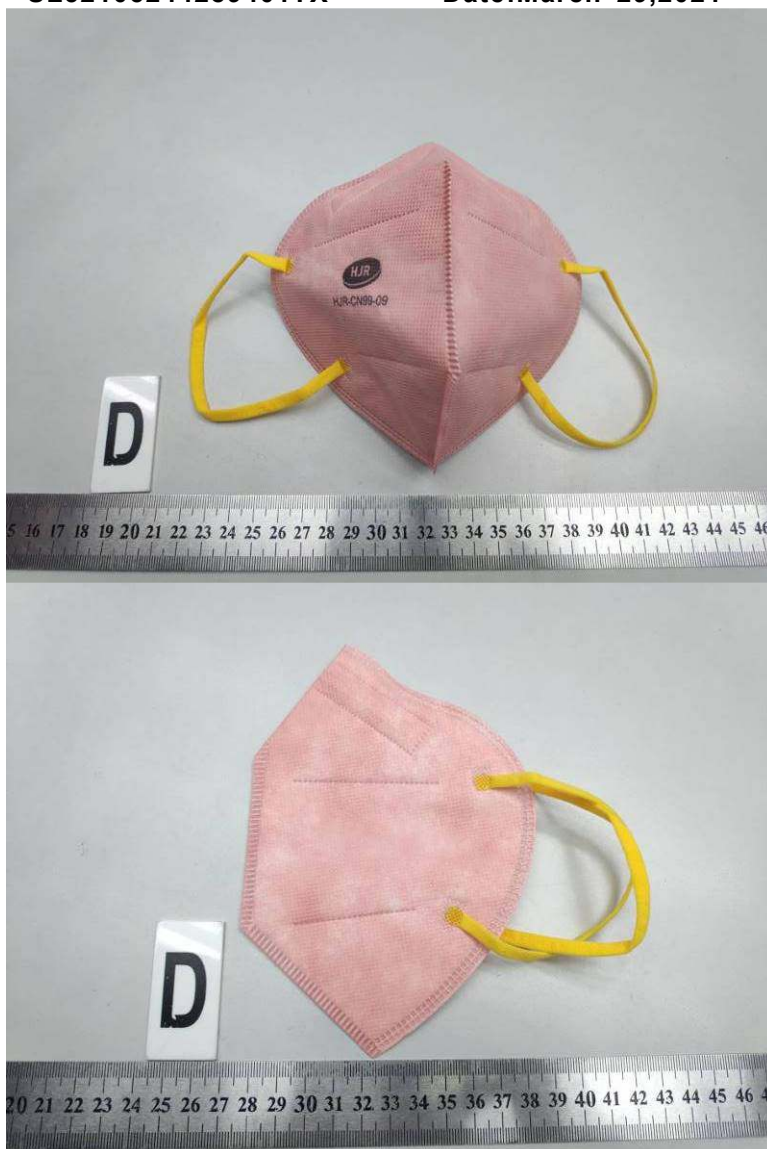




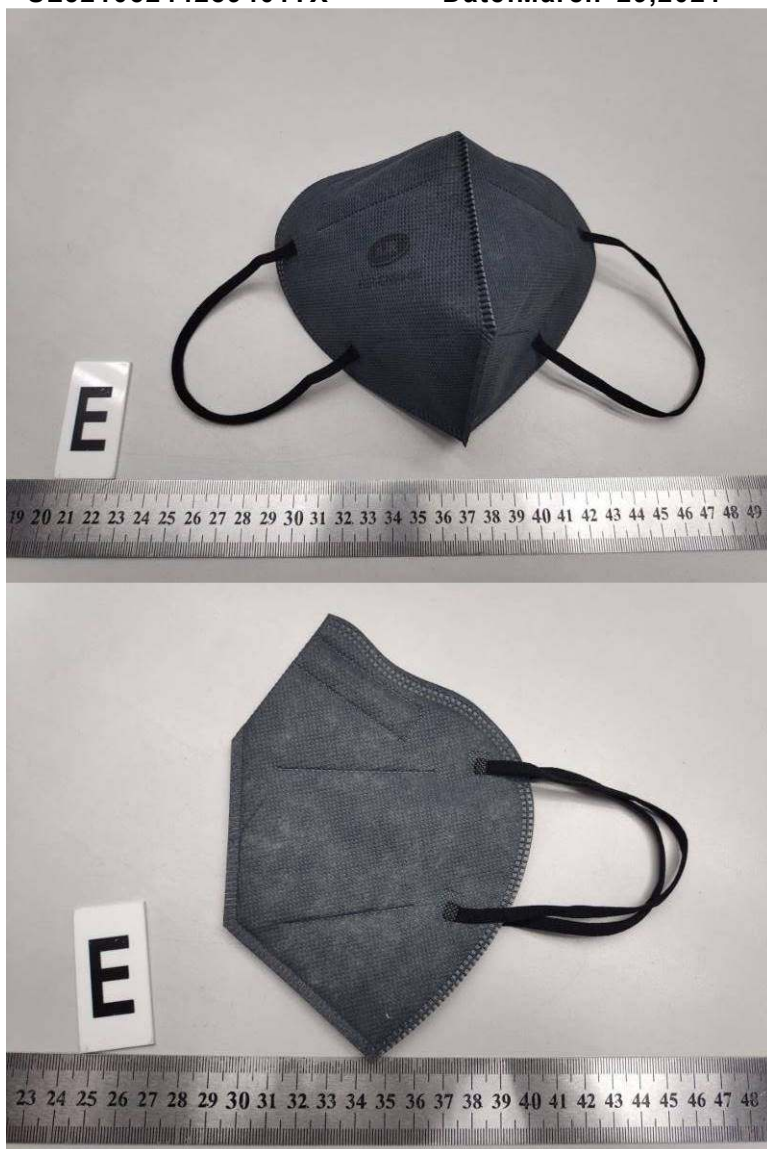




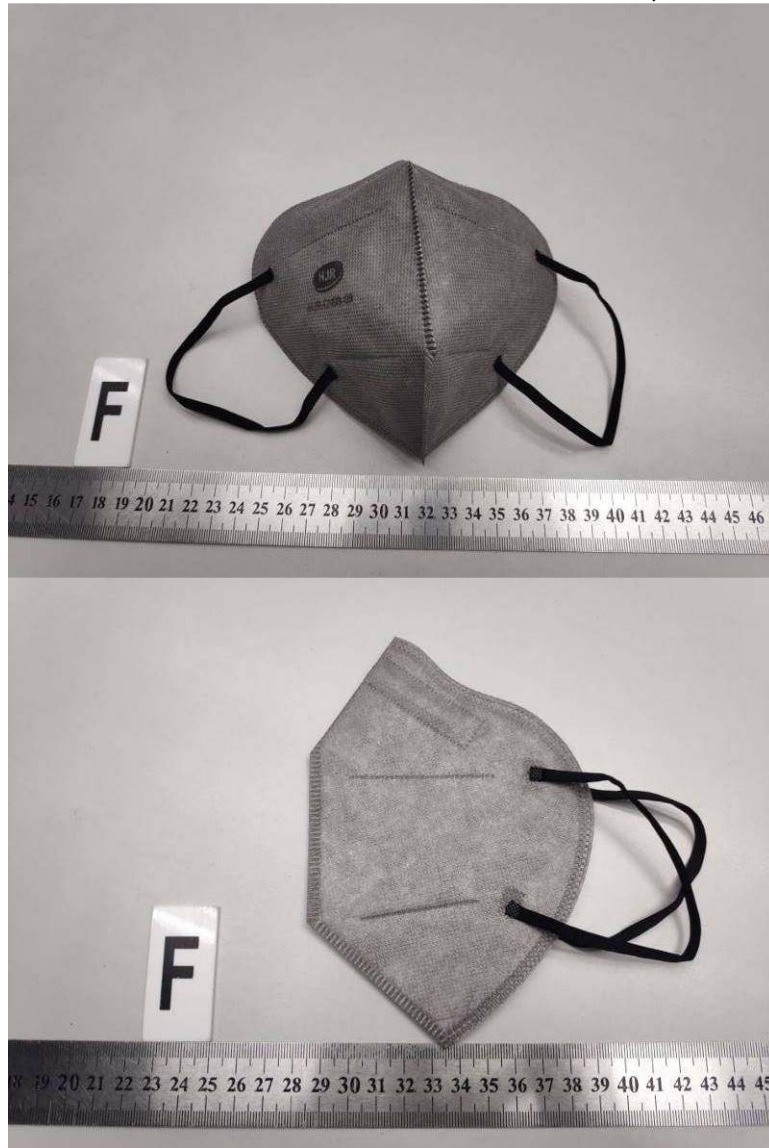








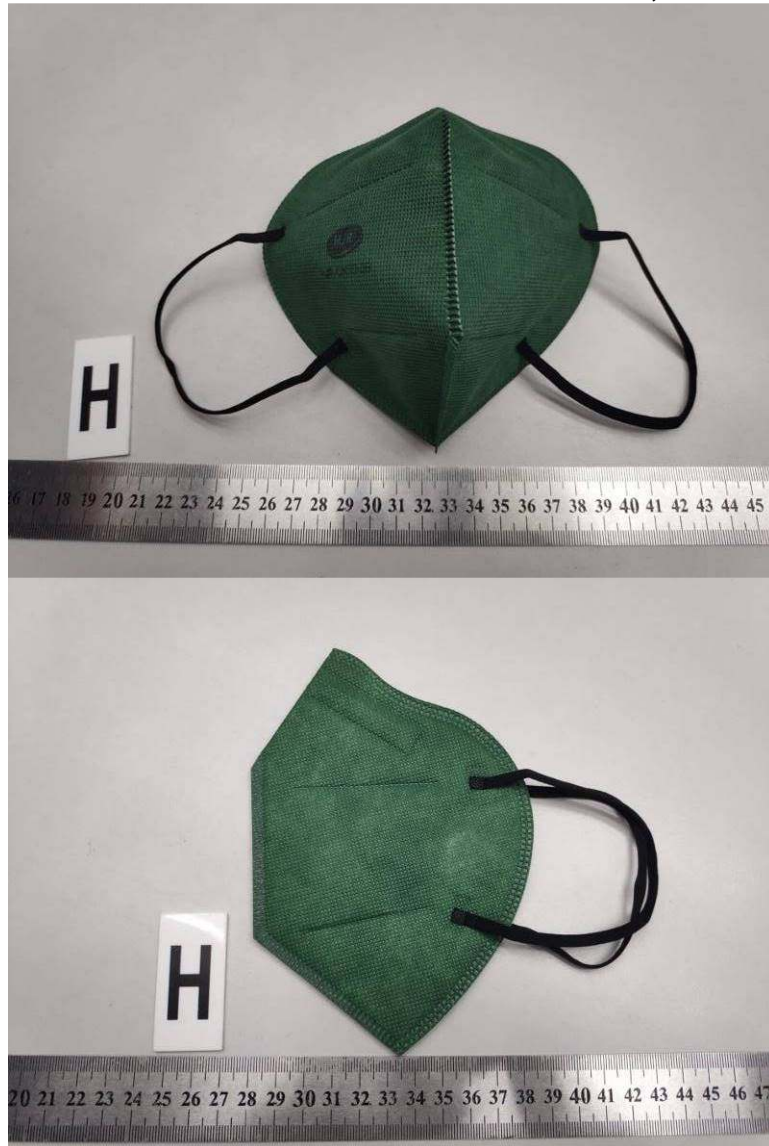


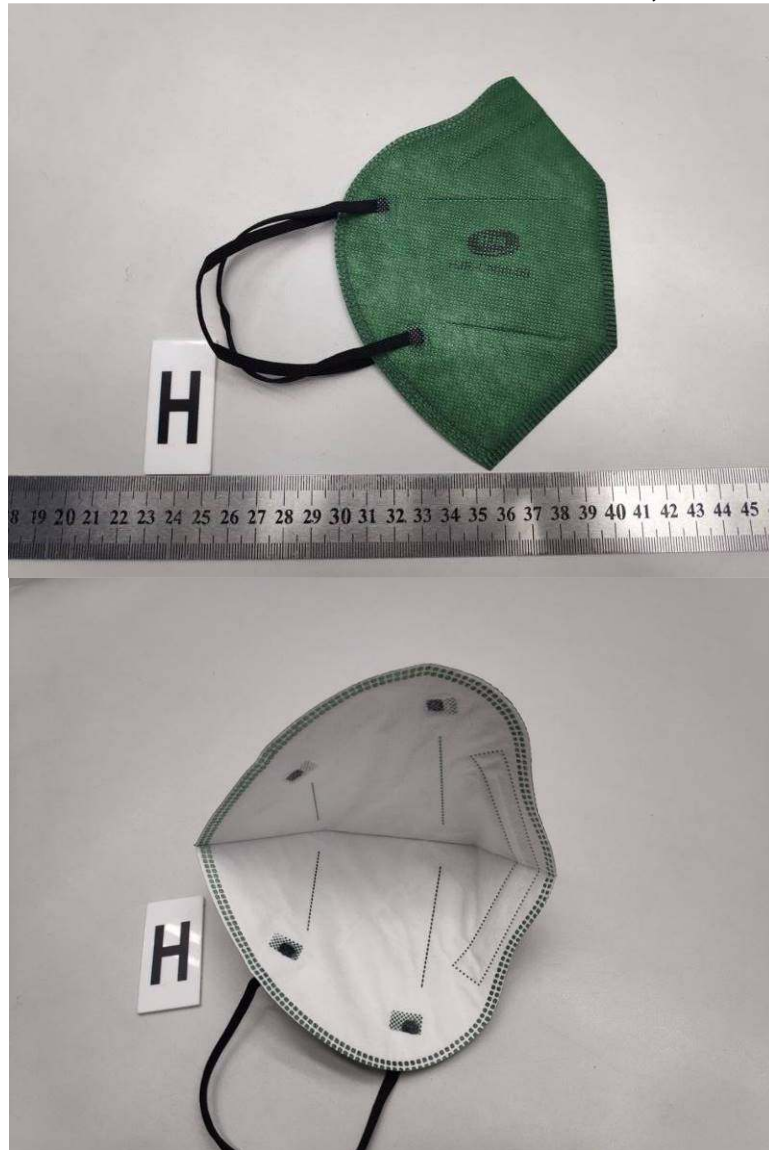






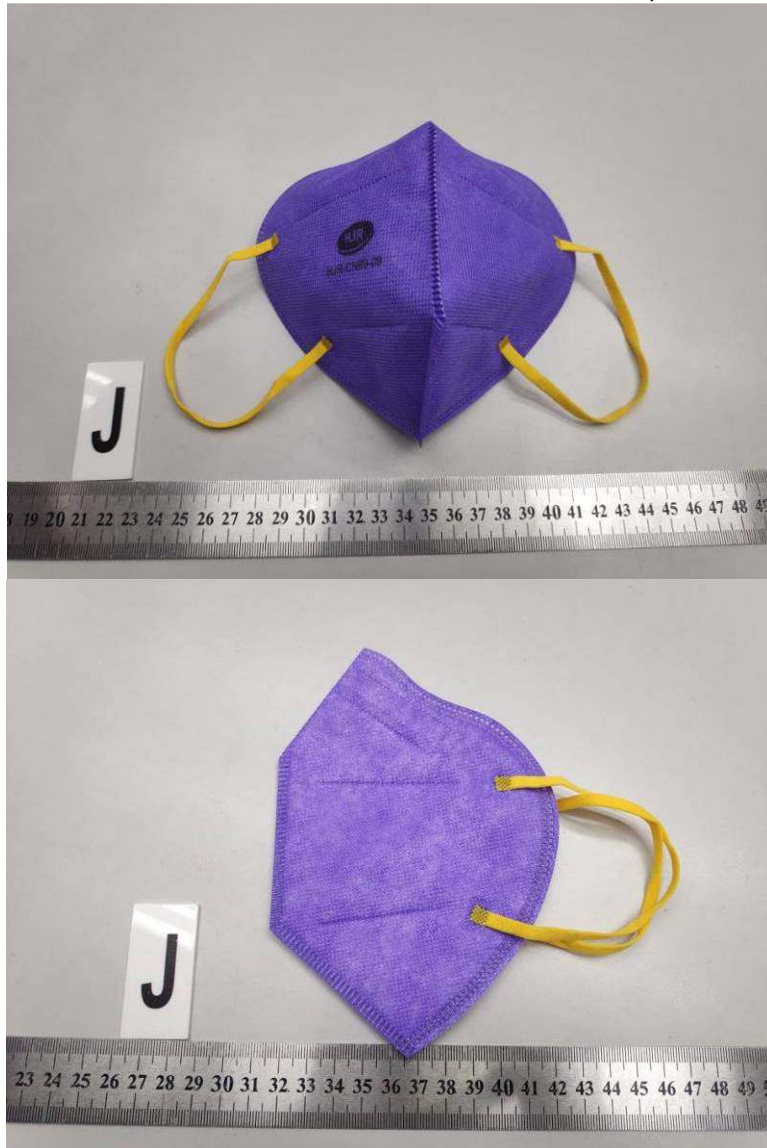




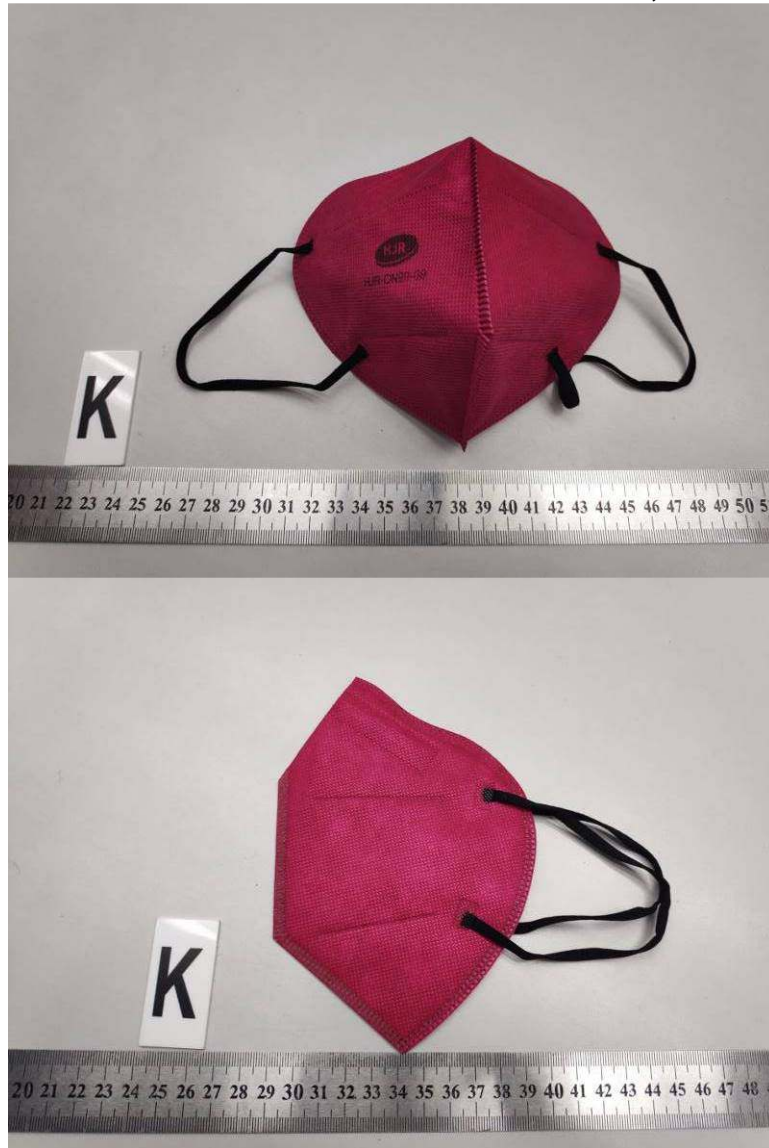




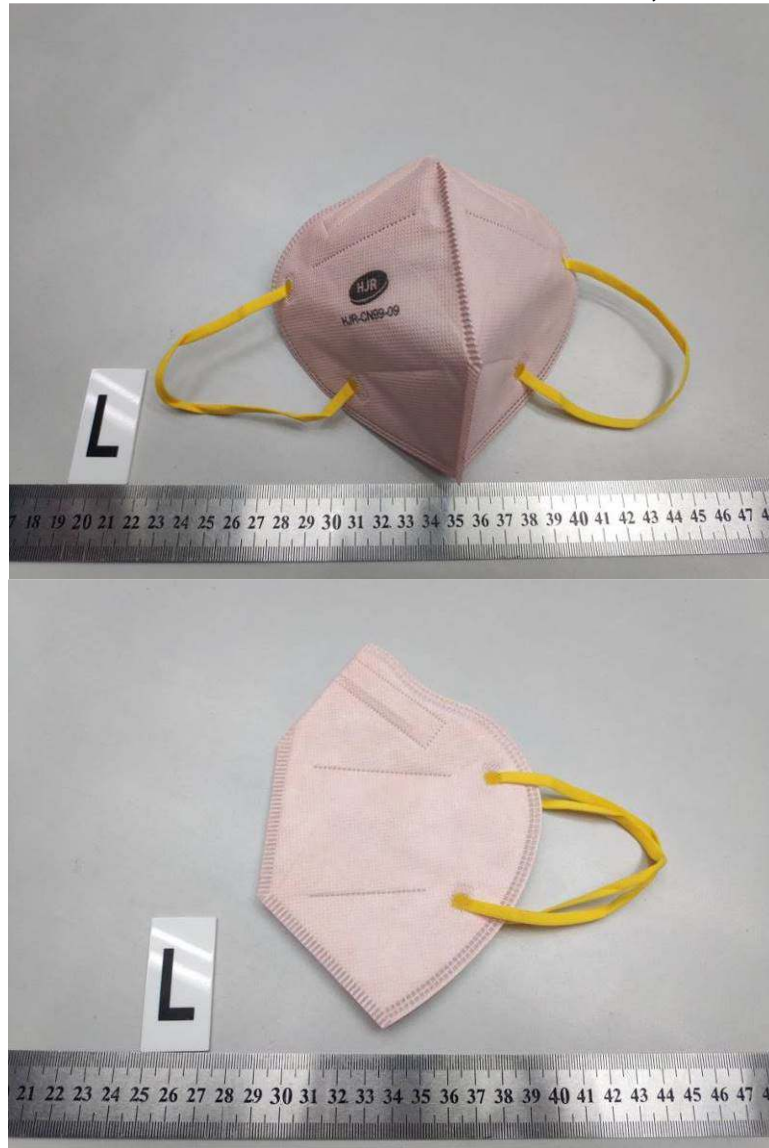






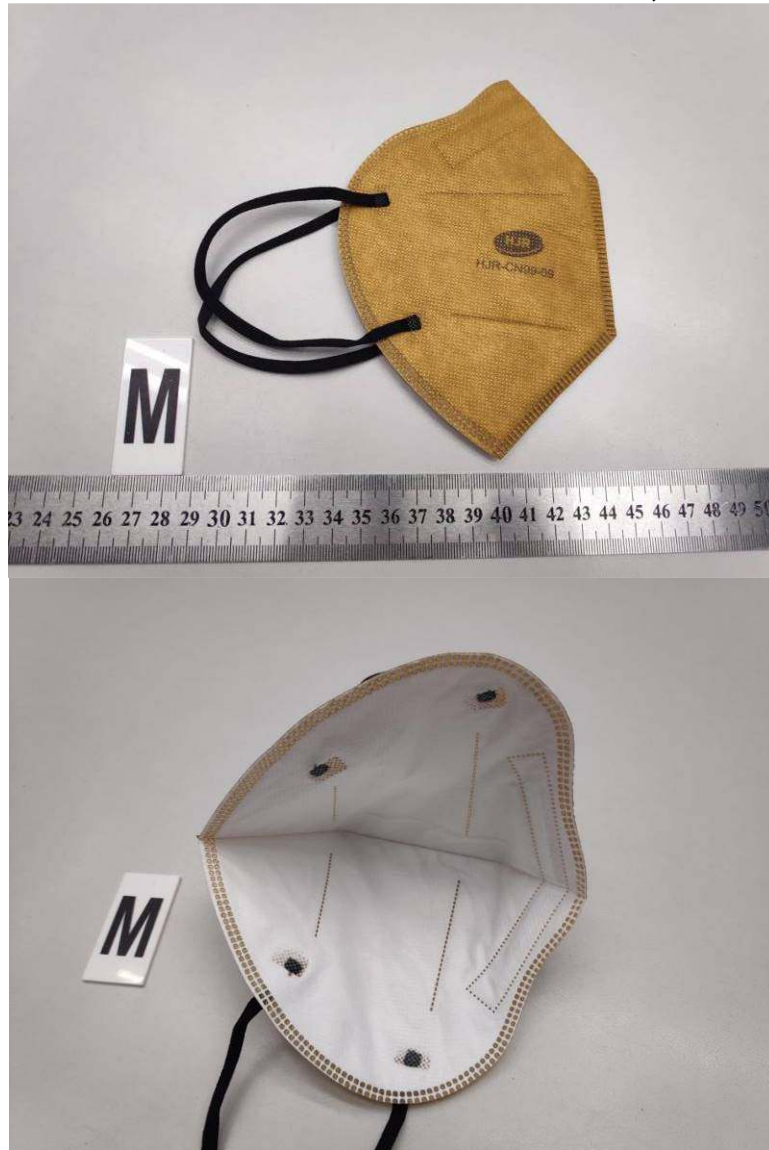


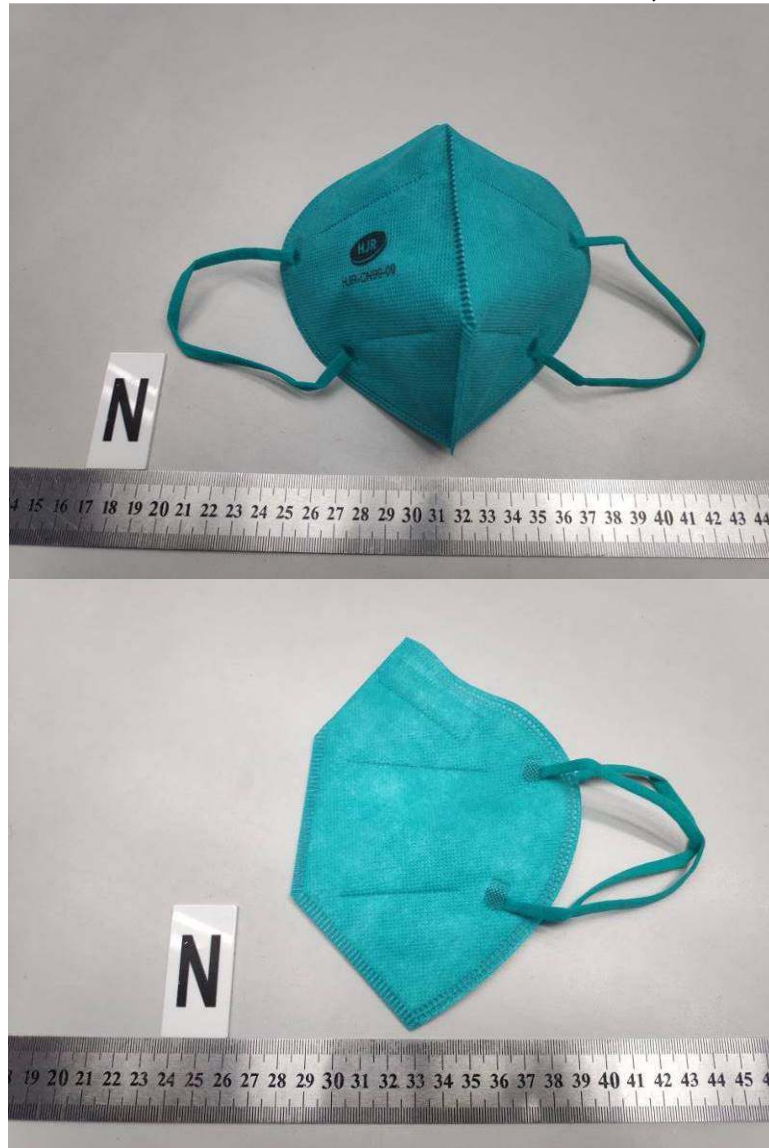


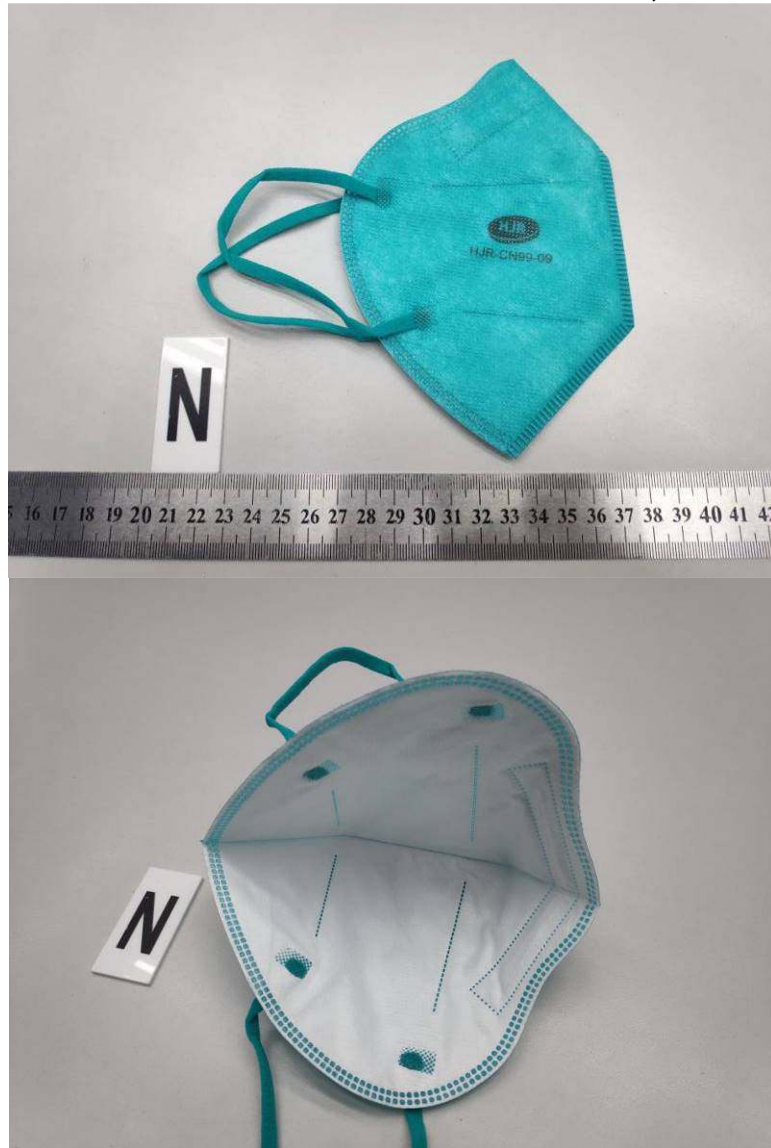


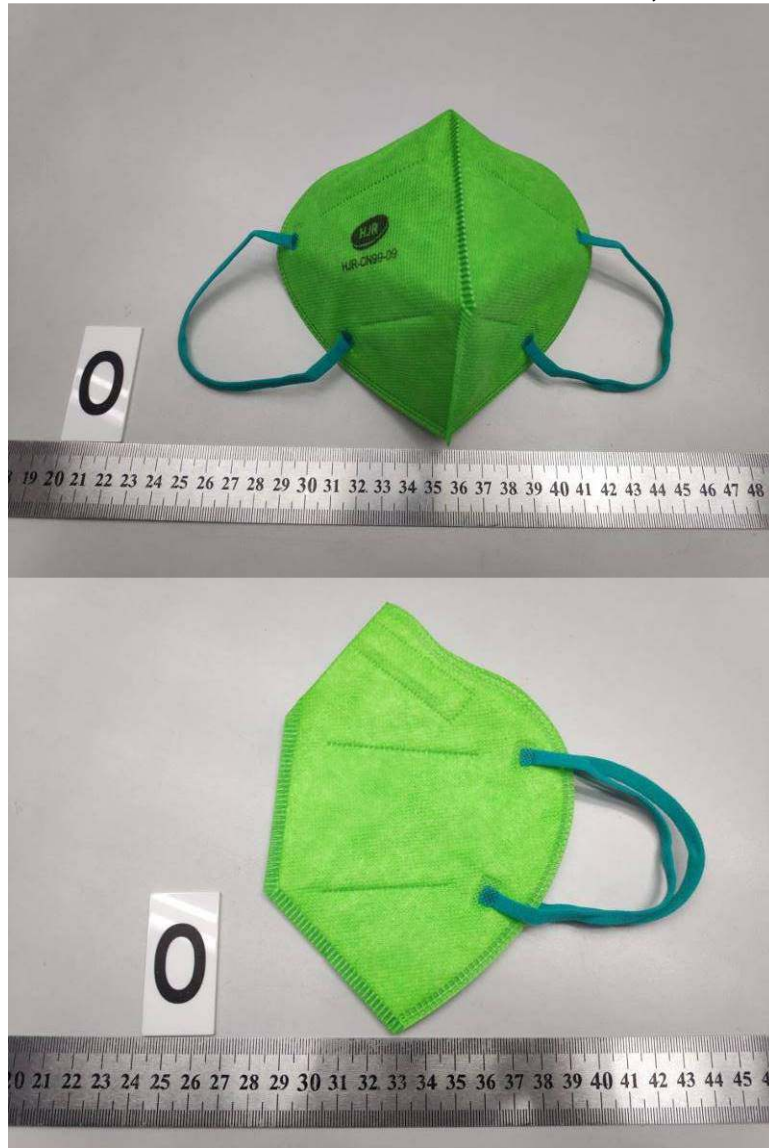




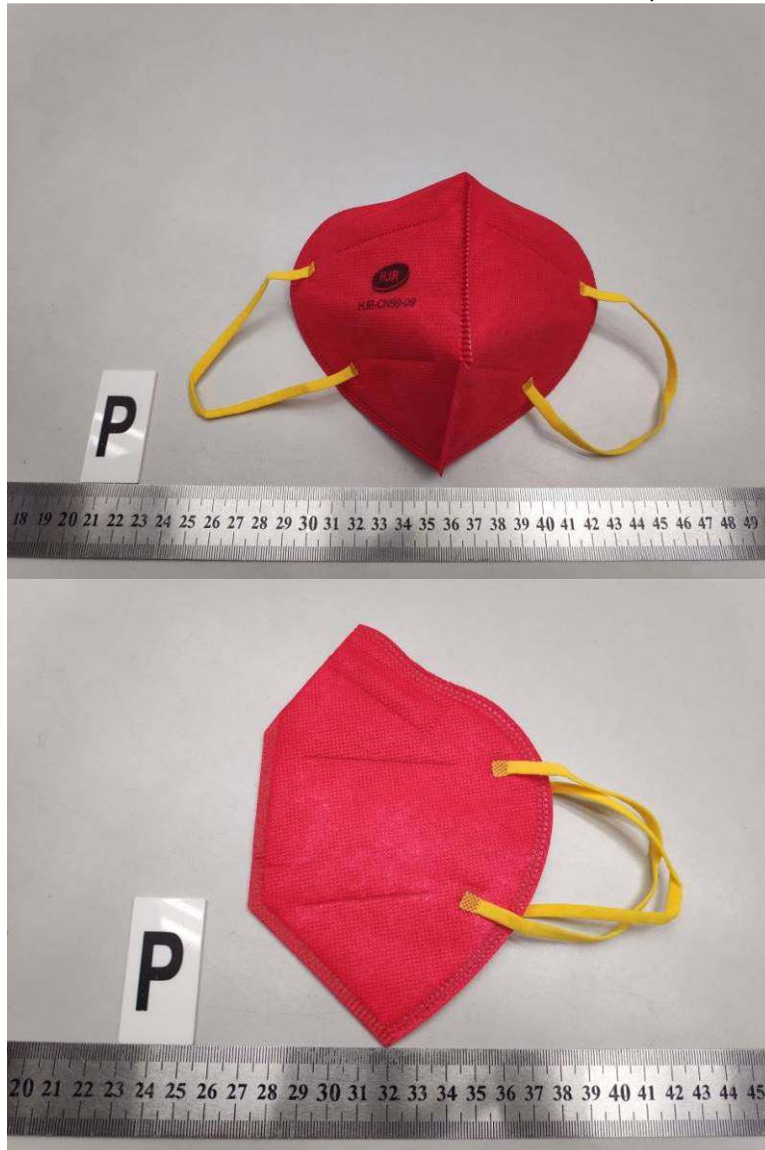




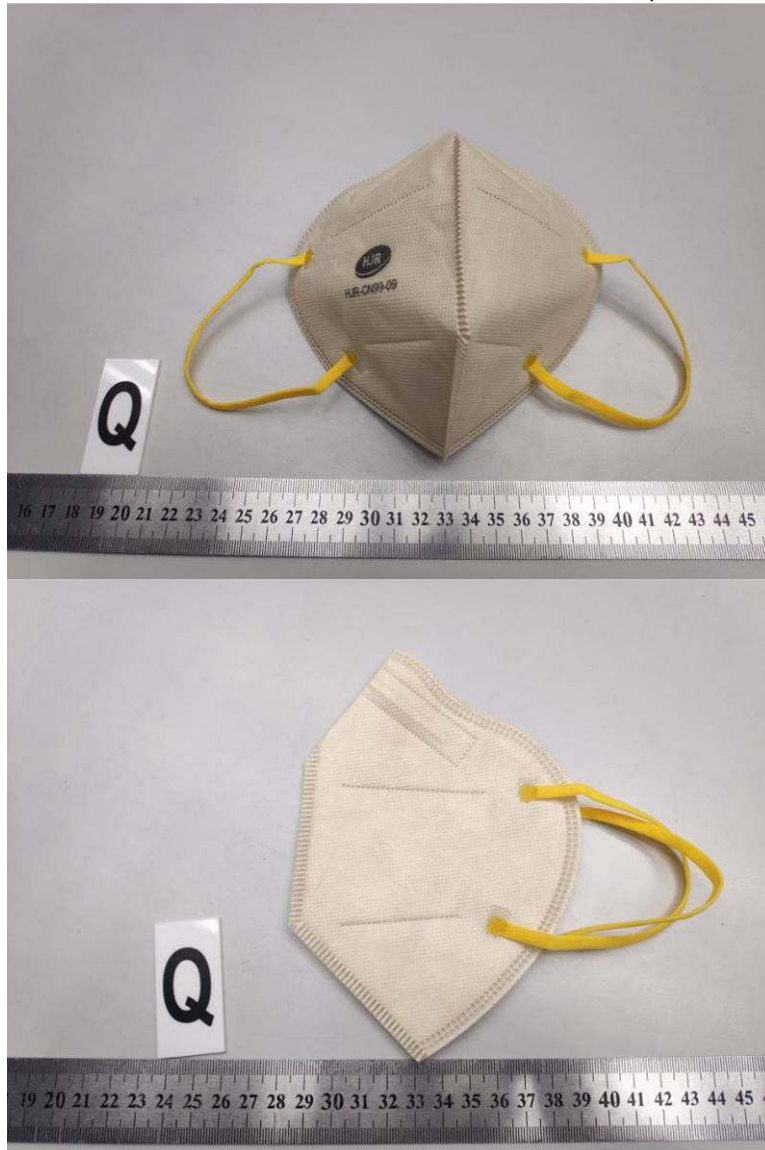


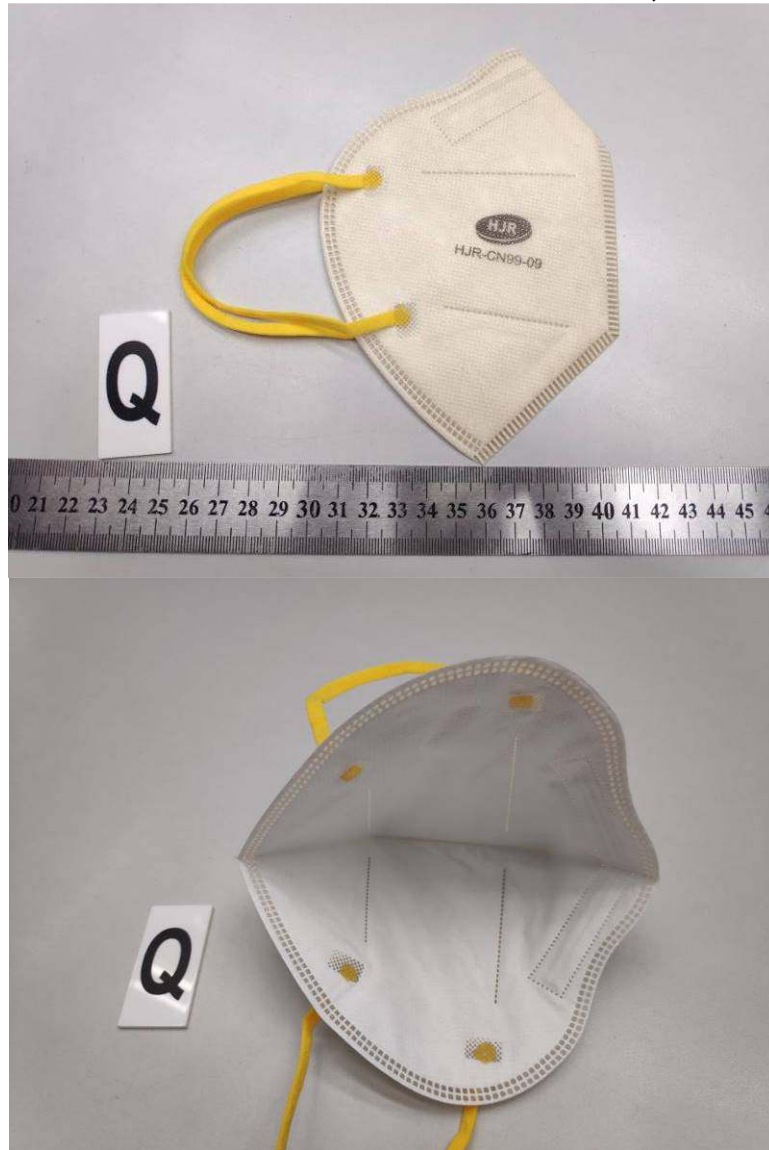


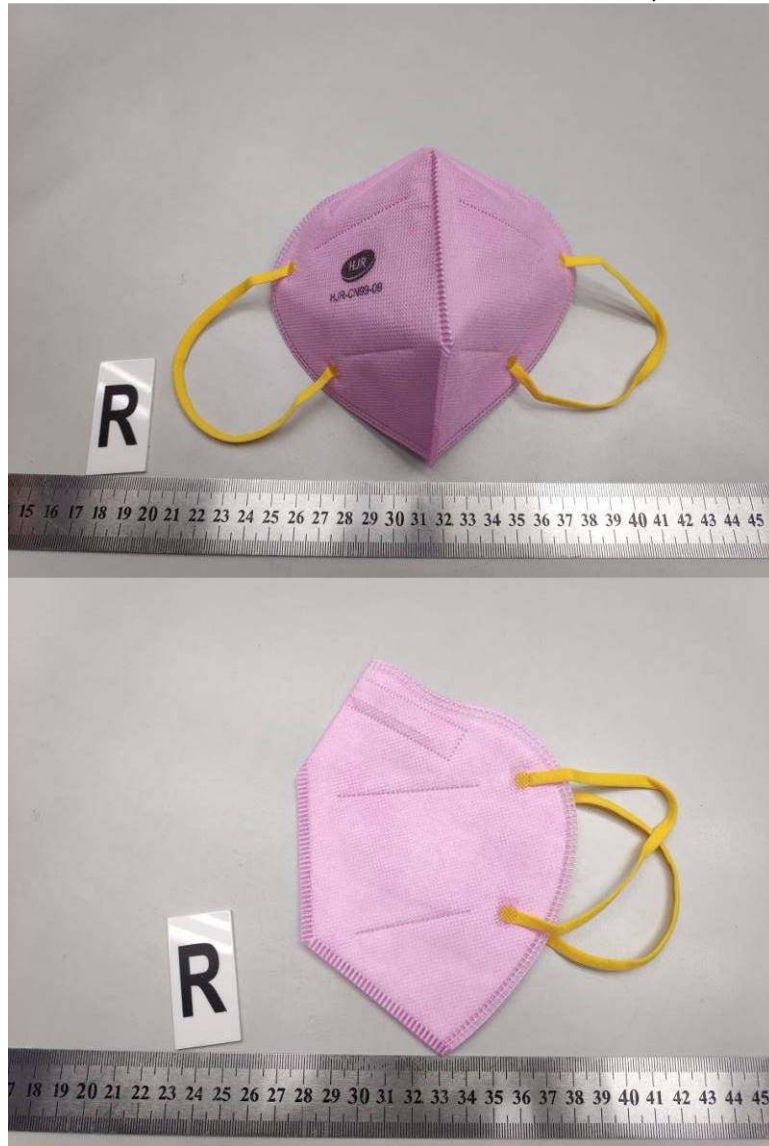
















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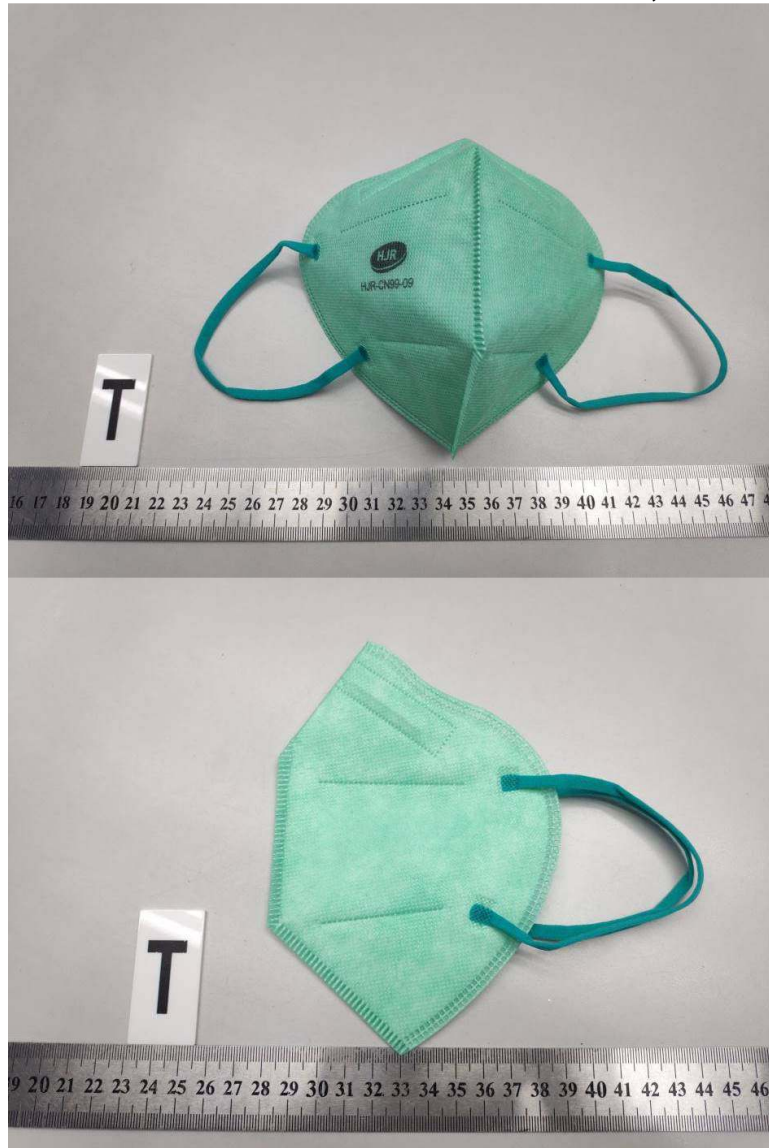
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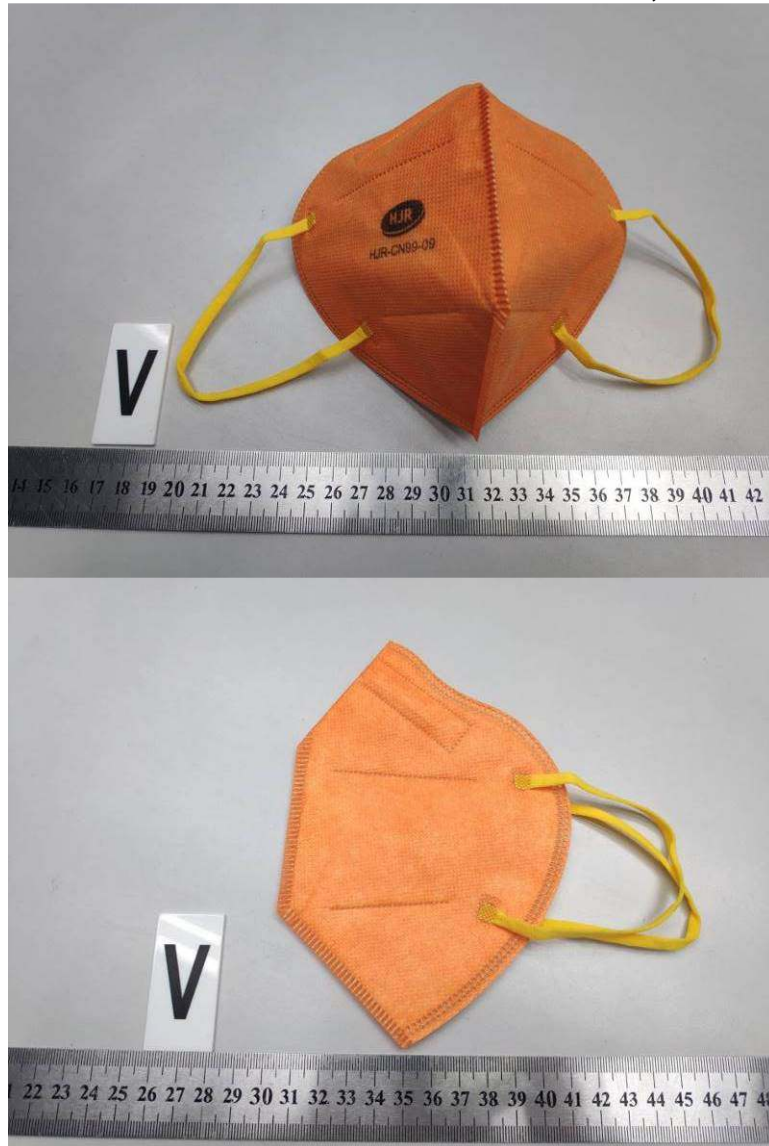




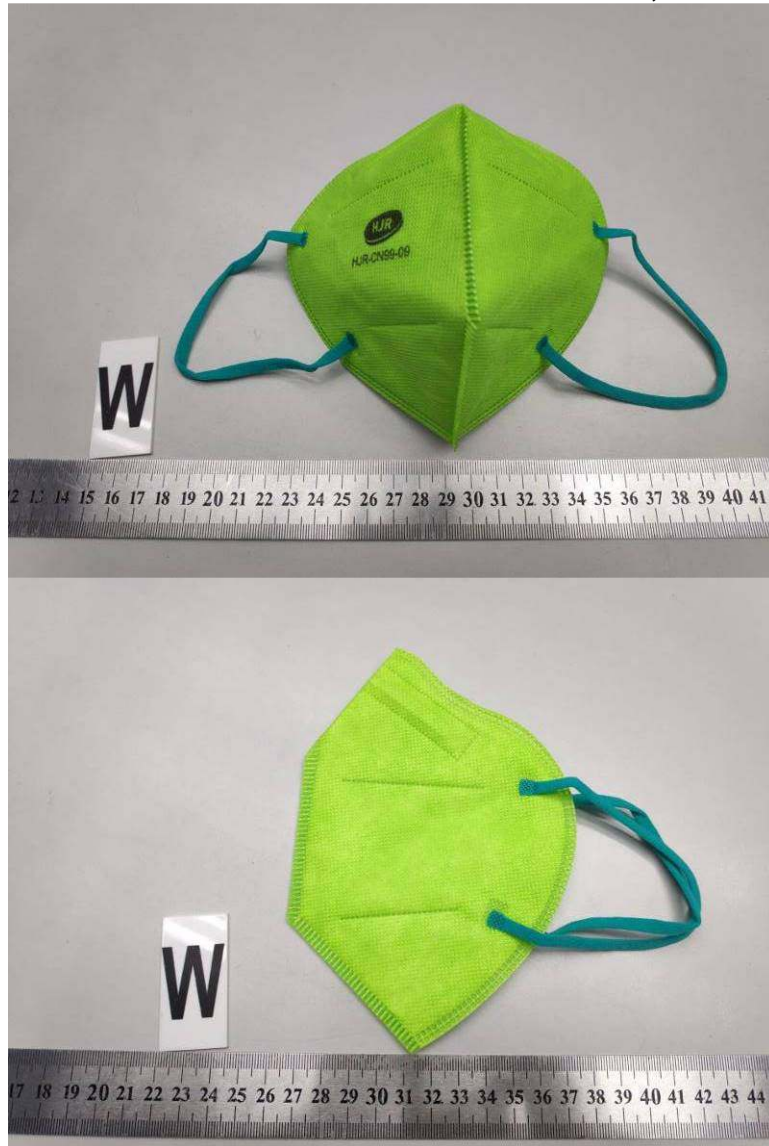




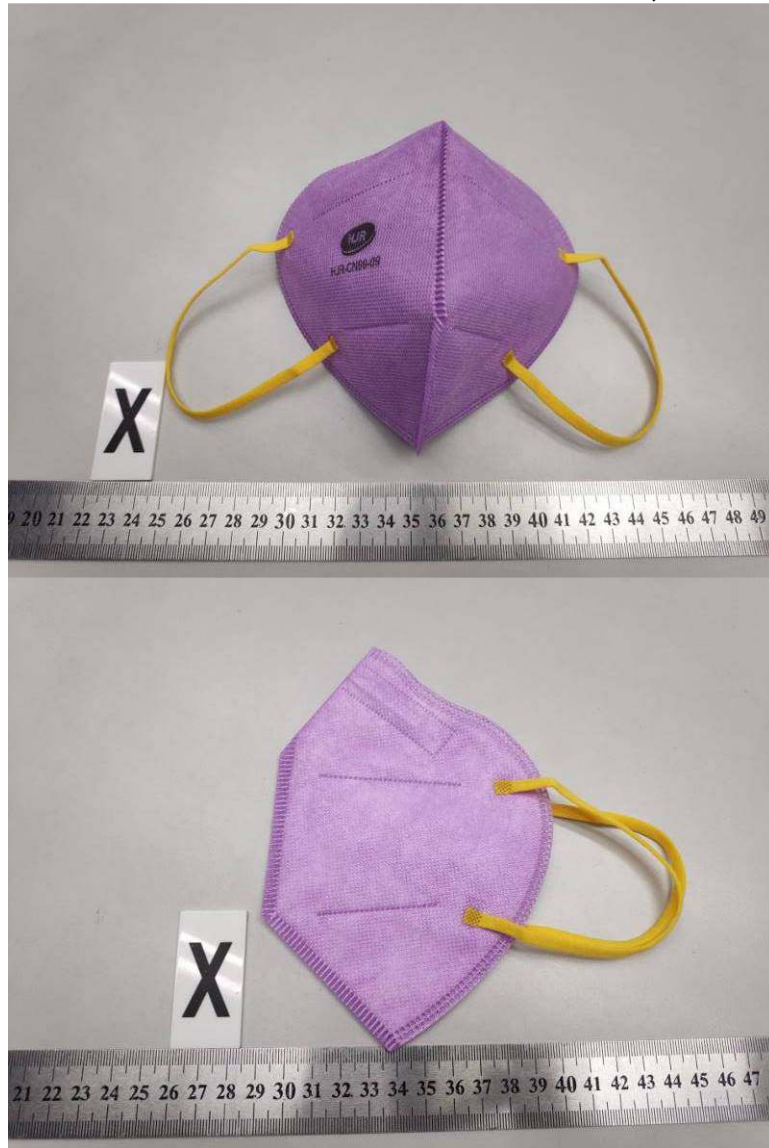


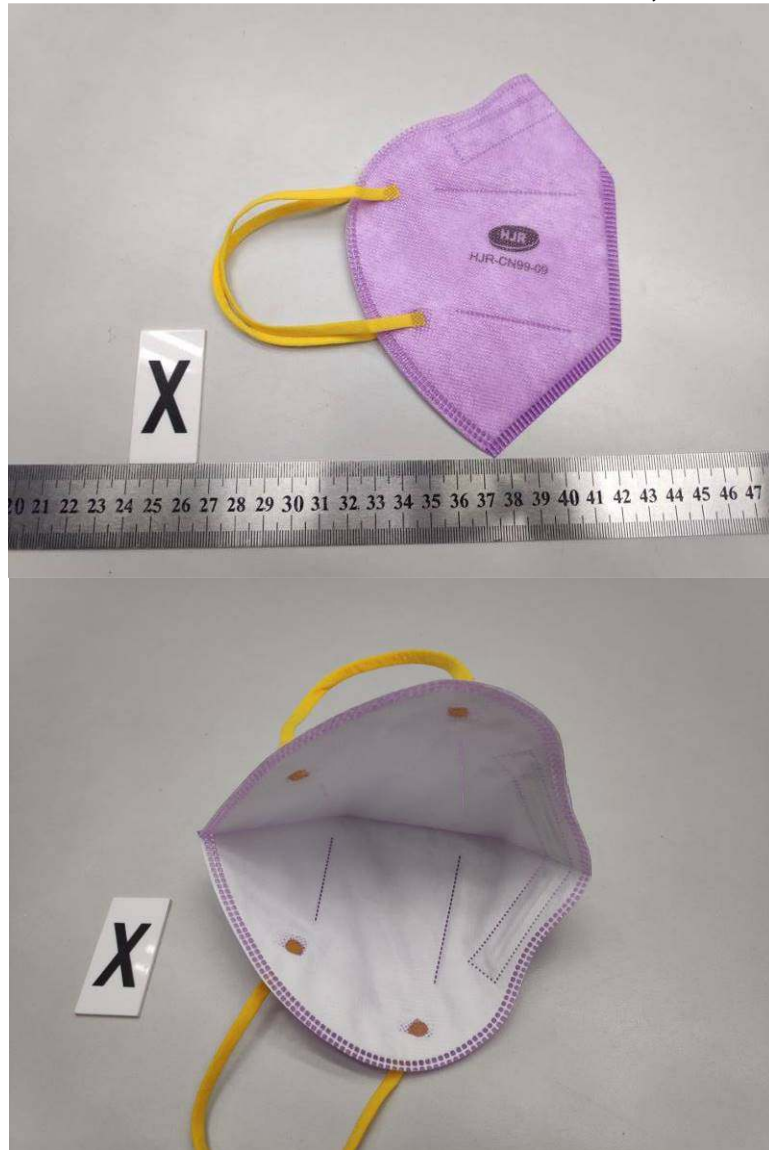


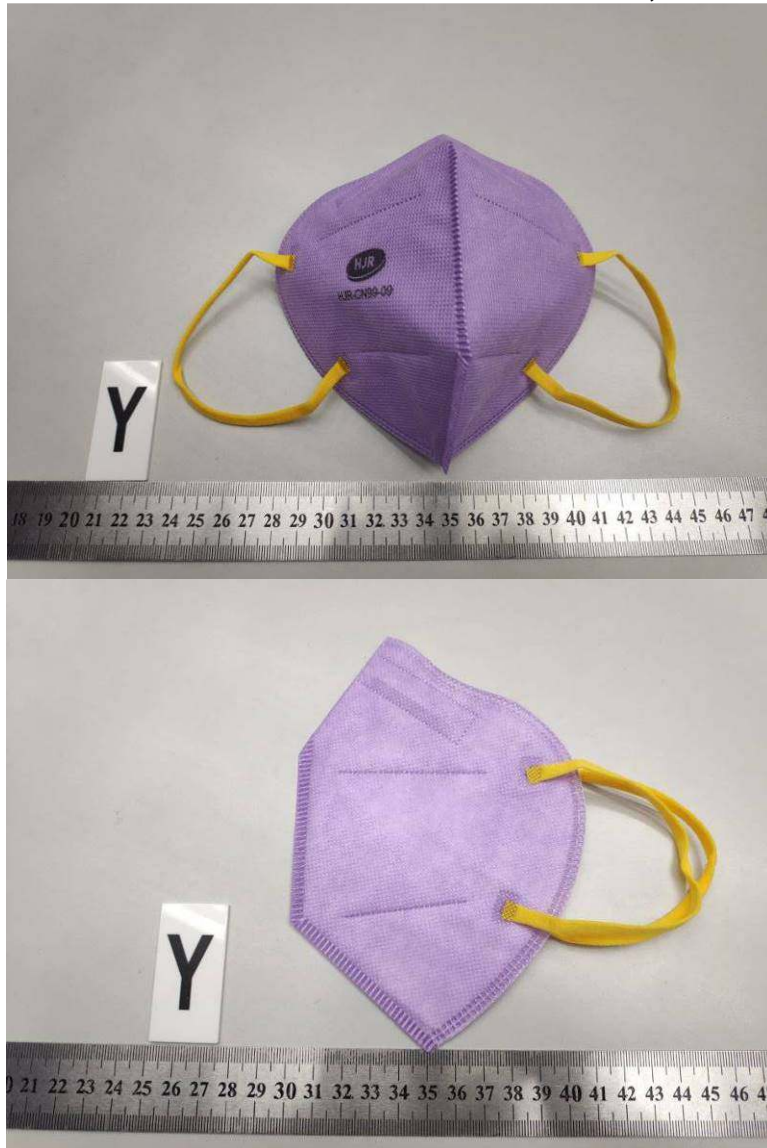




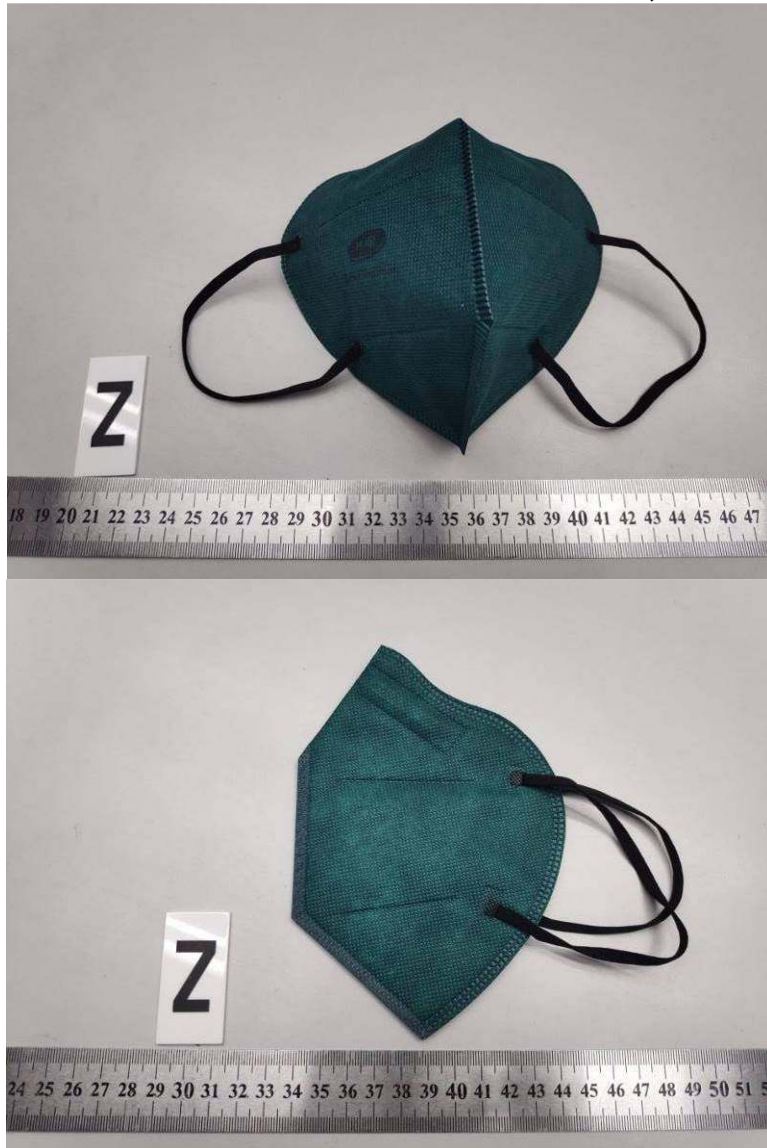














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