



# Test Report

No.: CANEC25030712705

Date: Dec 18, 2025

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Client Name: YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO.,LTD

Client Address: NO.6 WEST HEYE ROAD, HANJIANG DISTRICT, YANGZHOU, JIANGSU, CHINA

Sample Name: Power Device

Client Ref. Information: 1.Tin ball 3.Molding Compound halogen Free 1 4.GPP Chip 5.SKY Chip 7.Molding Compound halogen Free 2 8.Molding Compound halogen Free 3 9.Molding Compound halogen Free 4 10.Lead Frame/Jumper/Lead Wire 14.AI Wire/AI Ribbon 26.Solder Paste/0 1 5.30013

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



Violet Shi  
Approved Signatory

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**Test Result(s):**

Test Part Description

| SN ID | Sample No. | SGS Sample ID           | Description                  |
|-------|------------|-------------------------|------------------------------|
| SN1   | A1         | CAN25-0307127-0001.C001 | Silvery metal                |
| SN2   | A3         | CAN25-0307127-0001.C003 | Grey solid                   |
| SN3   | A4         | CAN25-0307127-0001.C004 | Multi-color solid            |
| SN4   | A5         | CAN25-0307127-0001.C005 | Multi-color solid            |
| SN5   | A7         | CAN25-0307127-0001.C007 | Grey solid                   |
| SN6   | A8         | CAN25-0307127-0001.C008 | Grey solid                   |
| SN7   | A9         | CAN25-0307127-0001.C009 | Grey solid                   |
| SN8   | A10        | CAN25-0307127-0001.C010 | Copper-colored metal         |
| SN9   | A14        | CAN25-0307127-0001.C014 | Silvery metal                |
| SN10  | A26        | CAN25-0307127-0001.C026 | Silvery metal wire           |
| SN11  | A27        | CAN25-0307127-0001.C027 | Copper-colored metal wire    |
| SN12  | A28        | CAN25-0307127-0001.C028 | Silver-grey metal wire       |
| SN13  | A29        | CAN25-0307127-0001.C029 | Silver-grey metal wire       |
| SN14  | A31        | CAN25-0307127-0001.C031 | Copper-colored/silvery metal |
| SN15  | A34        | CAN25-0307127-0001.C034 | Grey solid                   |
| SN16  | A35        | CAN25-0307127-0001.C035 | Copper-colored metal         |
| SN17  | A36        | CAN25-0307127-0001.C036 | Grey solid                   |
| SN18  | A37        | CAN25-0307127-0001.C037 | Grey solid                   |
| SN19  | A38        | CAN25-0307127-0001.C038 | Grey solid                   |
| SN20  | A39        | CAN25-0307127-0001.C039 | Grey solid                   |
| SN21  | A40        | CAN25-0307127-0001.C040 | Grey solid                   |
| SN22  | A41        | CAN25-0307127-0001.C041 | Grey solid                   |
| SN23  | A42        | CAN25-0307127-0001.C042 | Copper-colored metal         |
| SN24  | A43        | CAN25-0307127-0001.C043 | Copper-colored metal         |
| SN25  | A44        | CAN25-0307127-0001.C044 | Copper-colored/silvery metal |
| SN26  | A52        | CAN25-0307127-0001.C052 | Grey solid                   |
| SN27  | A53        | CAN25-0307127-0001.C053 | Grey solid                   |
| SN28  | A54        | CAN25-0307127-0001.C054 | Copper-colored metal         |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A3 | A4 | A5 |
|---|-------|---------|-----|----|----|----|
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND | ND | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND | ND | ND |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND | ND | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND | ND | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND | ND | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND | ND | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND | ND | ND |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND | ND | ND |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND | ND | ND |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND | ND | ND |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND | ND | ND |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A7 | A8 | A9 |
|---|-------|---------|-----|----|----|----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND | ND | ND |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND | ND | ND |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND | ND | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND | ND | ND |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND | ND | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND | ND | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND | ND | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND | ND | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND | ND | ND |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND | ND | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND | ND | ND |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND | ND | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND | ND | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND | ND | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND | ND | ND |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND | ND | ND |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND | ND | ND |

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| Test Item(s)                       | Limit | Unit(s) | MDL | A34 | A36 | A37 |
|------------------------------------|-------|---------|-----|-----|-----|-----|
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)       | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)            | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)        | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

| Test Item(s)                              | Limit | Unit(s) | MDL | A38 | A39 | A40 |
|---|-------|---------|-----|-----|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND  | ND  | ND  |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND  | ND  | ND  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND  | ND  | ND  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND  | ND  | ND  |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |

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| Test Item(s)                            | Limit | Unit(s) | MDL | A38 | A39 | A40 |
|---|-------|---------|-----|-----|-----|-----|
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)                 | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)             | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

| Test Item(s)                              | Limit | Unit(s) | MDL | A41 | A52 | A53 |
|---|-------|---------|-----|-----|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND  | ND  | ND  |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND  | ND  | ND  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND  | ND  | ND  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND  | ND  | ND  |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A41 | A52 | A53 |
|---|-------|---------|-----|-----|-----|-----|
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                       | Limit | Unit(s)            | MDL  | A1 | A10 | A14 |
|------------------------------------|-------|--------------------|------|----|-----|-----|
| Lead (Pb)                          | 1000  | mg/kg              | 2    | 37 | ND  | ND  |
| Mercury (Hg)                       | 1000  | mg/kg              | 2    | ND | ND  | ND  |
| Cadmium (Cd)                       | 100   | mg/kg              | 2    | ND | ND  | ND  |
| Hexavalent Chromium (Cr(VI))       | -     | µg/cm <sup>2</sup> | 0.10 | ND | ND  | ND  |
| Polybrominated biphenyls (PBB)     | 1000  | mg/kg              | -    | ND | ND  | ND  |
| Monobrominated biphenyl (MonoBB)   | -     | mg/kg              | 25   | ND | ND  | ND  |
| Dibrominated biphenyl (DiBB)       | -     | mg/kg              | 25   | ND | ND  | ND  |
| Tribrominated biphenyl (TriBB)     | -     | mg/kg              | 25   | ND | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB) | -     | mg/kg              | 25   | ND | ND  | ND  |
| Pentabrominated biphenyl (PentaBB) | -     | mg/kg              | 25   | ND | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)   | -     | mg/kg              | 25   | ND | ND  | ND  |
| Heptabrominated biphenyl (HeptaBB) | -     | mg/kg              | 25   | ND | ND  | ND  |
| Octabrominated biphenyl (OctaBB)   | -     | mg/kg              | 25   | ND | ND  | ND  |
| Nonabrominated biphenyl (NonaBB)   | -     | mg/kg              | 25   | ND | ND  | ND  |
| Decabrominated biphenyl (DecaBB)   | -     | mg/kg              | 25   | ND | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A1 | A10 | A14 |
|---|-------|---------|-----|----|-----|-----|
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND | ND  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND | ND  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND | ND  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND | ND  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND | ND  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND | ND  | ND  |

| Test Item(s)                       | Limit | Unit(s)            | MDL  | A26    | A27 | A28 |
|------------------------------------|-------|--------------------|------|--------|-----|-----|
| Lead (Pb)                          | 1000  | mg/kg              | 2    | 910378 | 9   | ND  |
| Mercury (Hg)                       | 1000  | mg/kg              | 2    | ND     | ND  | ND  |
| Cadmium (Cd)                       | 100   | mg/kg              | 2    | ND     | ND  | ND  |
| Hexavalent Chromium (Cr(VI))       | -     | µg/cm <sup>2</sup> | 0.10 | ND     | ND  | ND  |
| Polybrominated biphenyls (PBB)     | 1000  | mg/kg              | -    | ND     | ND  | ND  |
| Monobrominated biphenyl (MonoBB)   | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Dibrominated biphenyl (DiBB)       | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Tribrominated biphenyl (TriBB)     | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB) | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Pentabrominated biphenyl (PentaBB) | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)   | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Heptabrominated biphenyl (HeptaBB) | -     | mg/kg              | 25   | ND     | ND  | ND  |
| Octabrominated biphenyl (OctaBB)   | -     | mg/kg              | 25   | ND     | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A26 | A27 | A28 |
|---|-------|---------|-----|-----|-----|-----|
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

| Test Item(s)                       | Limit | Unit(s)            | MDL  | A29 | A31 | A35 |
|------------------------------------|-------|--------------------|------|-----|-----|-----|
| Lead (Pb)                          | 1000  | mg/kg              | 2    | ND  | 11  | 12  |
| Mercury (Hg)                       | 1000  | mg/kg              | 2    | ND  | ND  | ND  |
| Cadmium (Cd)                       | 100   | mg/kg              | 2    | ND  | ND  | ND  |
| Hexavalent Chromium (Cr(VI))       | -     | µg/cm <sup>2</sup> | 0.10 | ND  | ND  | ND  |
| Polybrominated biphenyls (PBB)     | 1000  | mg/kg              | -    | ND  | ND  | ND  |
| Monobrominated biphenyl (MonoBB)   | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Dibrominated biphenyl (DiBB)       | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Tribrominated biphenyl (TriBB)     | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB) | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Pentabrominated biphenyl (PentaBB) | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)   | -     | mg/kg              | 25   | ND  | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A29 | A31 | A35 |
|---|-------|---------|-----|-----|-----|-----|
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

| Test Item(s)                       | Limit | Unit(s)            | MDL  | A42 | A43 | A44 |
|------------------------------------|-------|--------------------|------|-----|-----|-----|
| Lead (Pb)                          | 1000  | mg/kg              | 2    | 12  | 18  | ND  |
| Mercury (Hg)                       | 1000  | mg/kg              | 2    | ND  | ND  | ND  |
| Cadmium (Cd)                       | 100   | mg/kg              | 2    | ND  | ND  | ND  |
| Hexavalent Chromium (Cr(VI))       | -     | µg/cm <sup>2</sup> | 0.10 | ND  | ND  | ND  |
| Polybrominated biphenyls (PBB)     | 1000  | mg/kg              | -    | ND  | ND  | ND  |
| Monobrominated biphenyl (MonoBB)   | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Dibrominated biphenyl (DiBB)       | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Tribrominated biphenyl (TriBB)     | -     | mg/kg              | 25   | ND  | ND  | ND  |
| Tetrabrominated biphenyl (TetraBB) | -     | mg/kg              | 25   | ND  | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A42 | A43 | A44 |
|---|-------|---------|-----|-----|-----|-----|
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  | ND  | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND  | ND  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND  | ND  | ND  |

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| Test Item(s)                              | Limit | Unit(s) | MDL | A54 |
|---|-------|---------|-----|-----|
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 25  | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 25  | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND  |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND  |
| Dibutyl Phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND  |
| Diisobutyl Phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND  |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.

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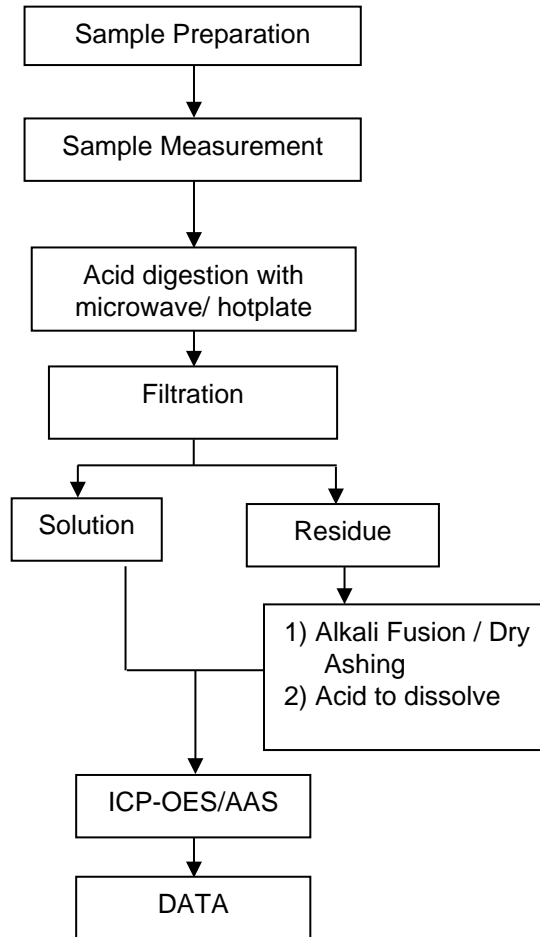


**Test Report**

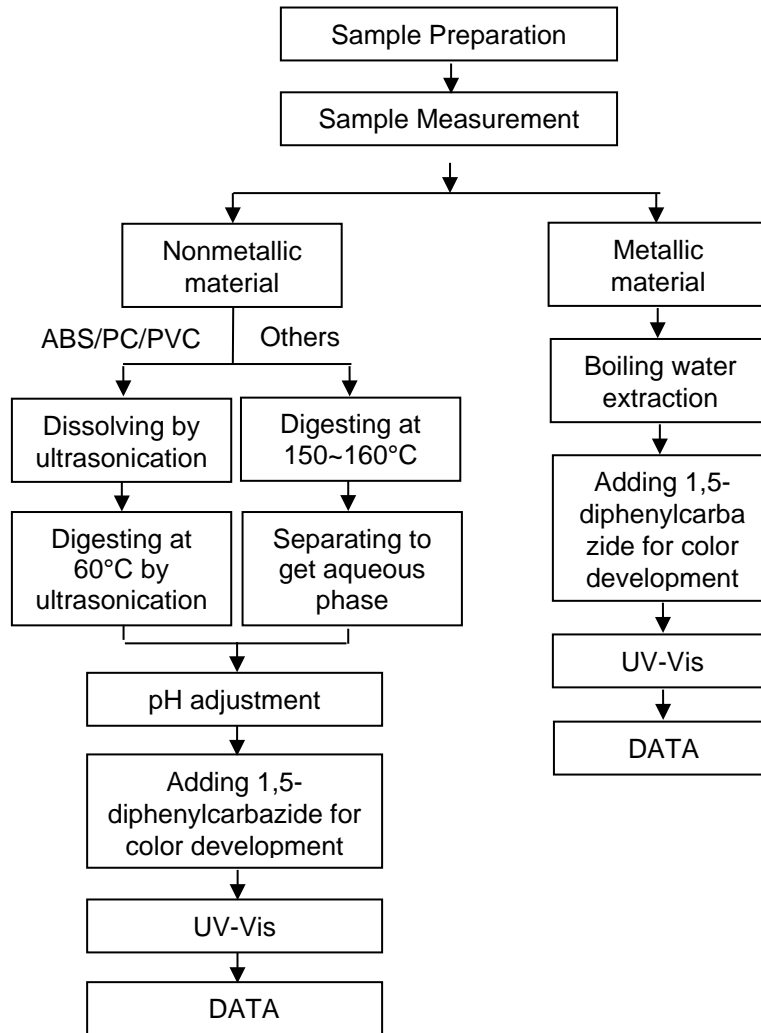
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**Elements Testing Flow Chart**

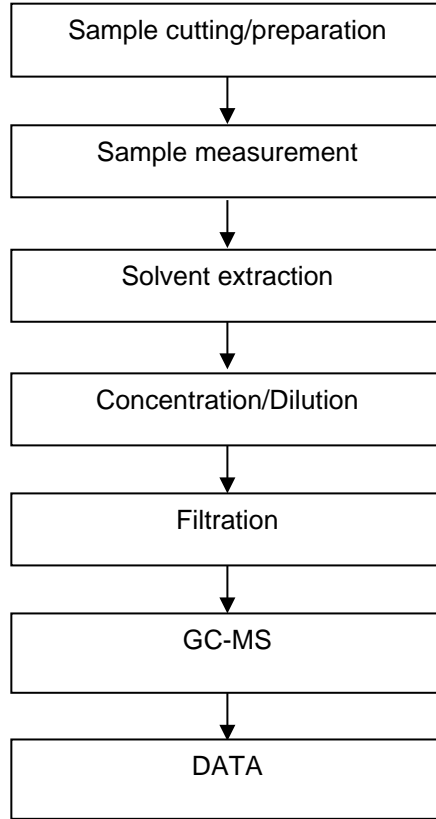
These samples were dissolved totally by pre-conditioning method according to below flow chart.



**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**



**PBB(s)/PBDE(s)/Phthalates Testing Flow Chart**



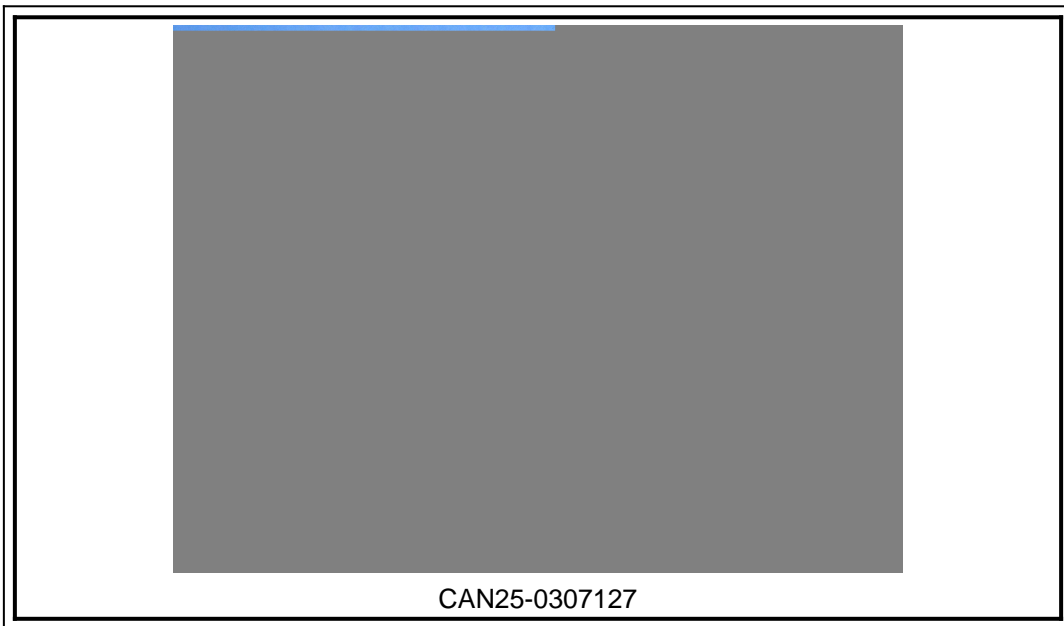
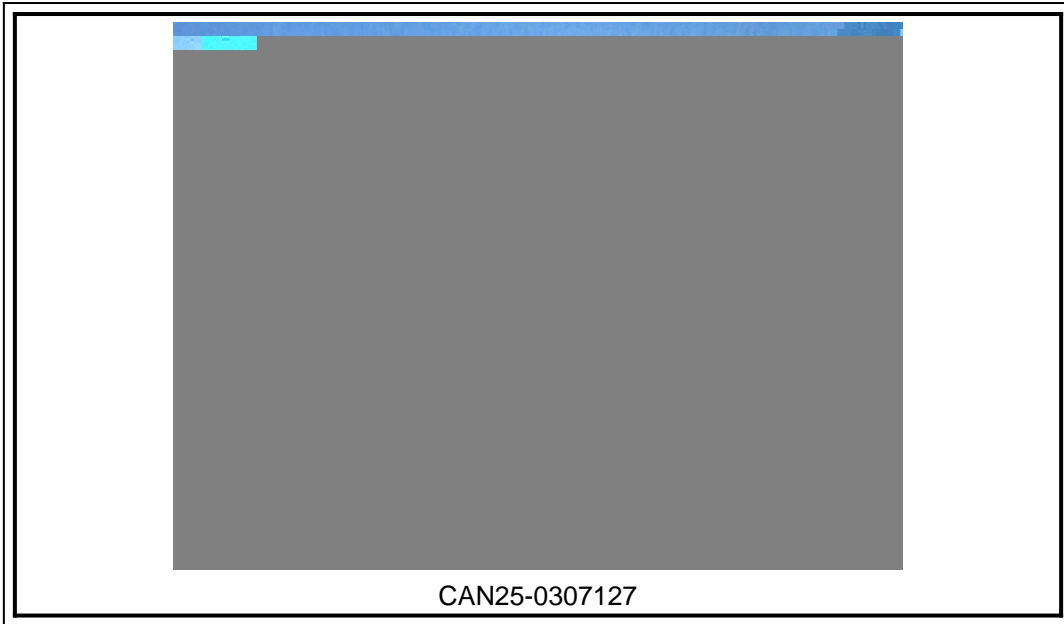
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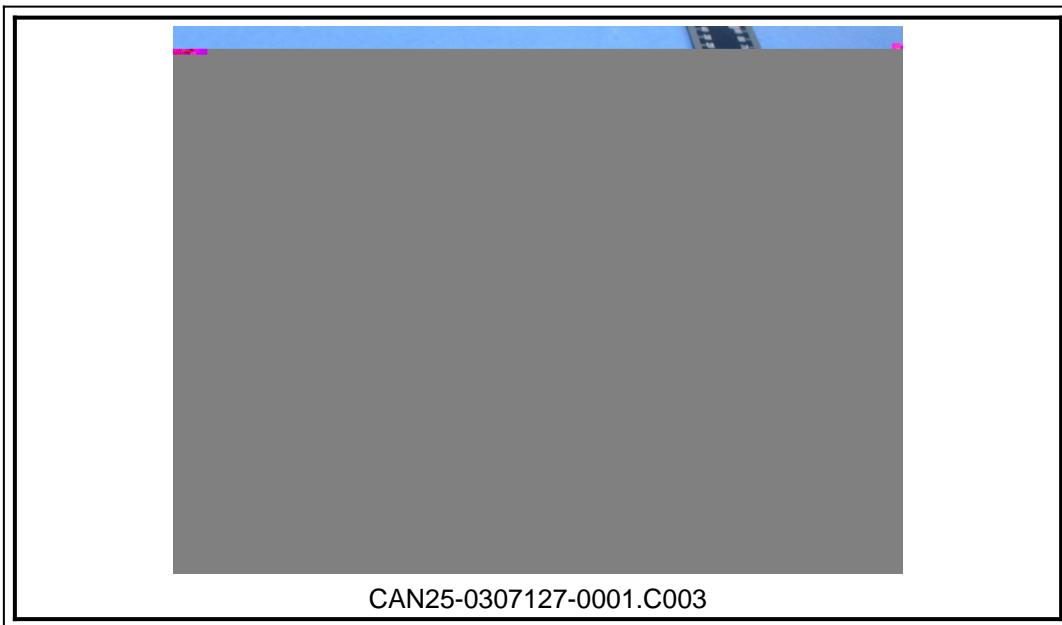


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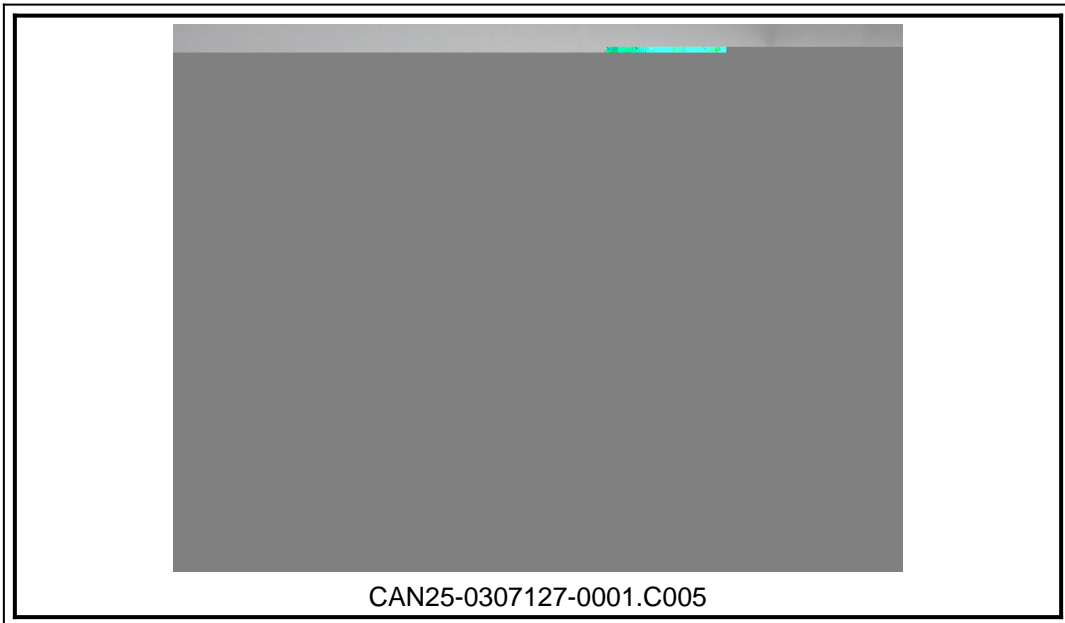
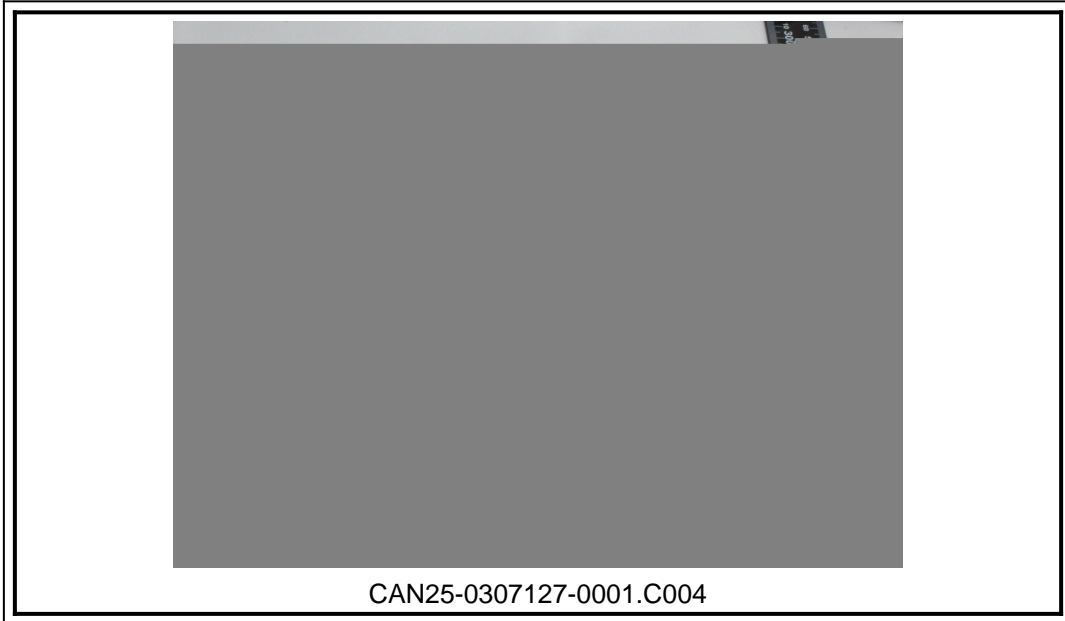


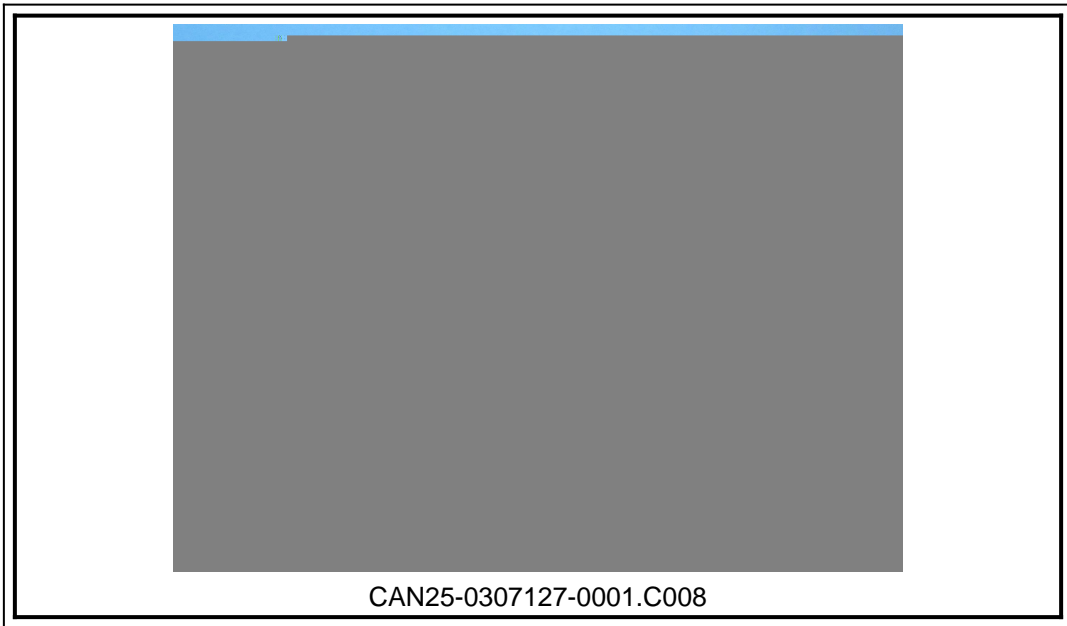
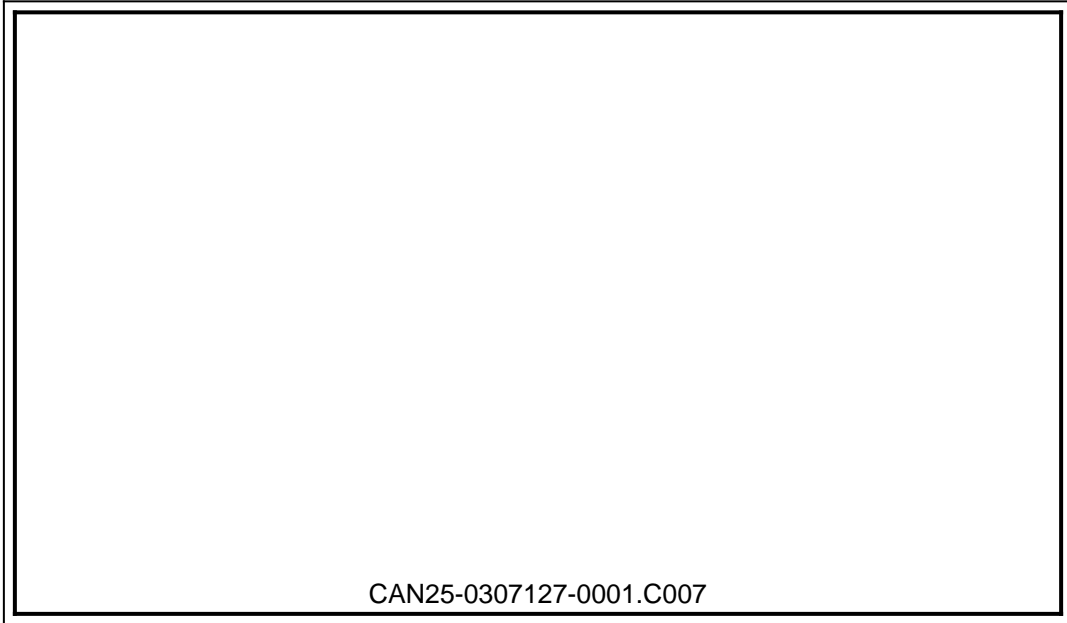
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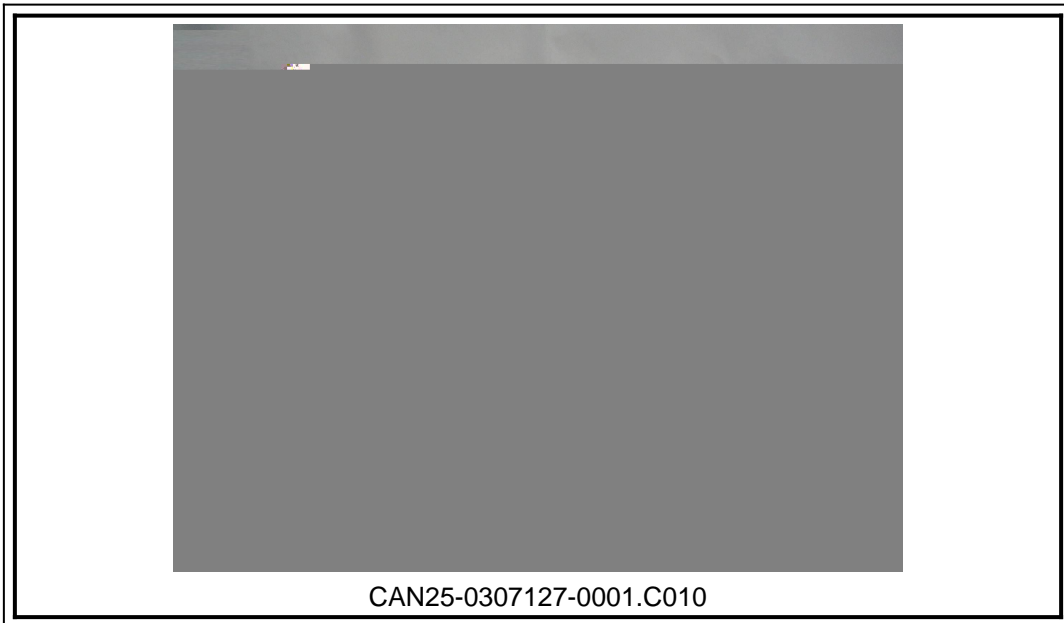
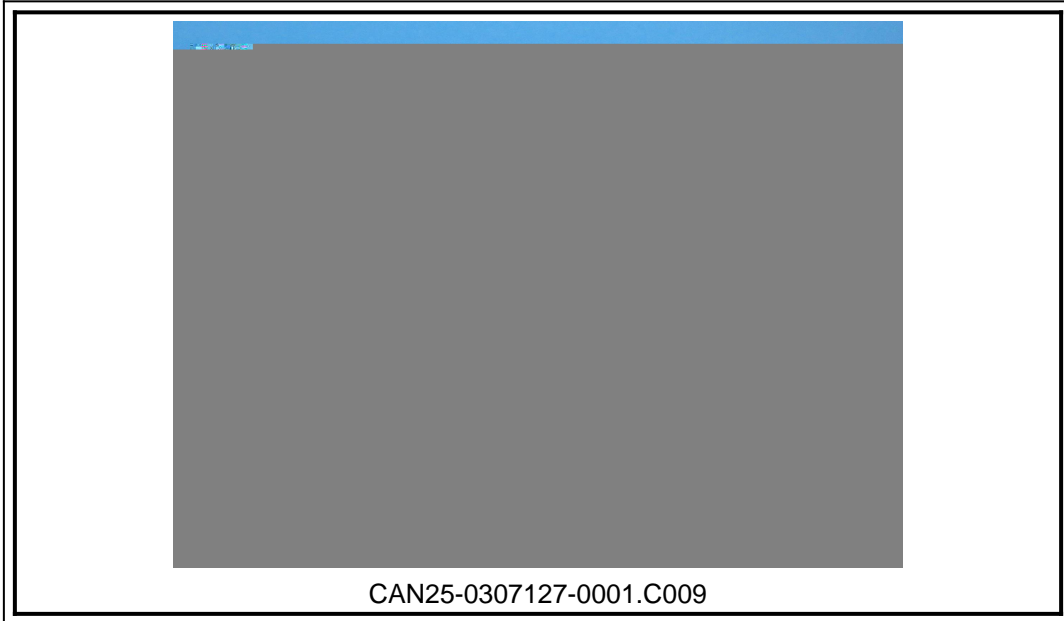


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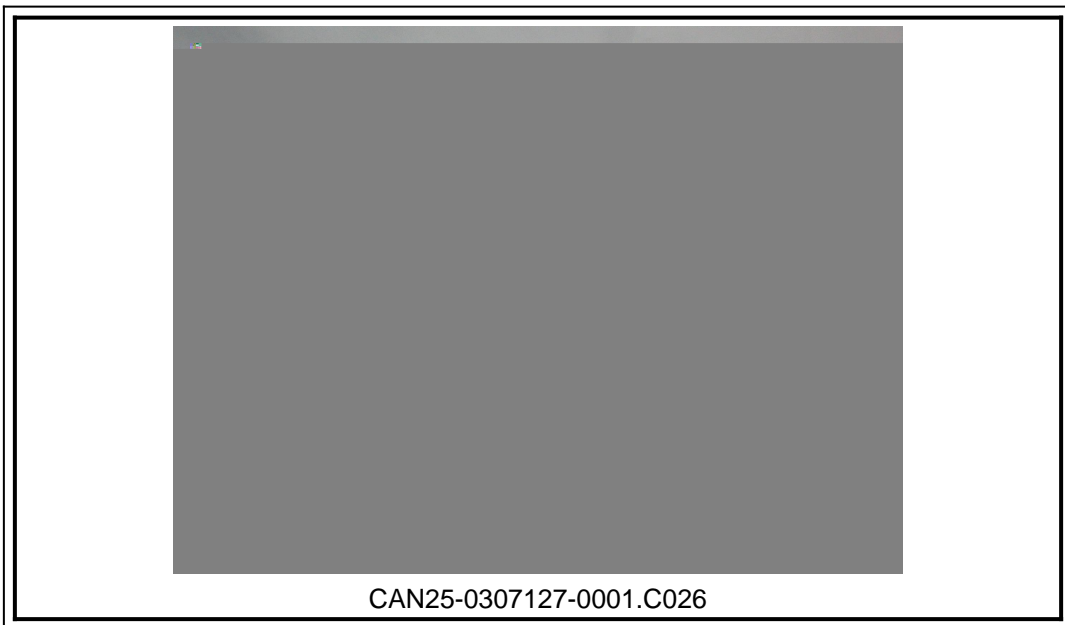
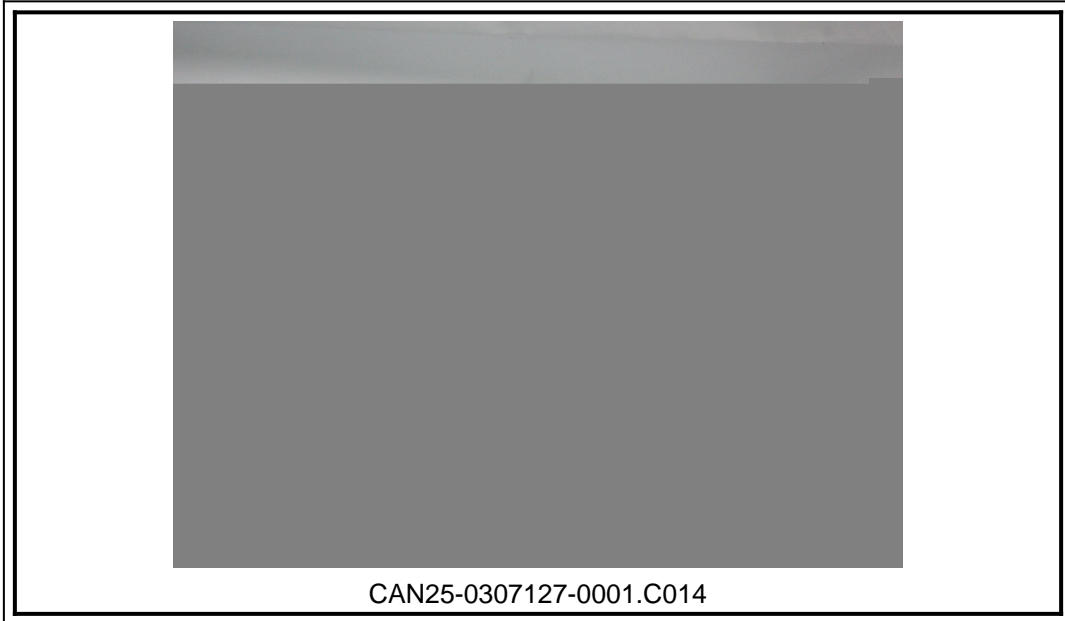


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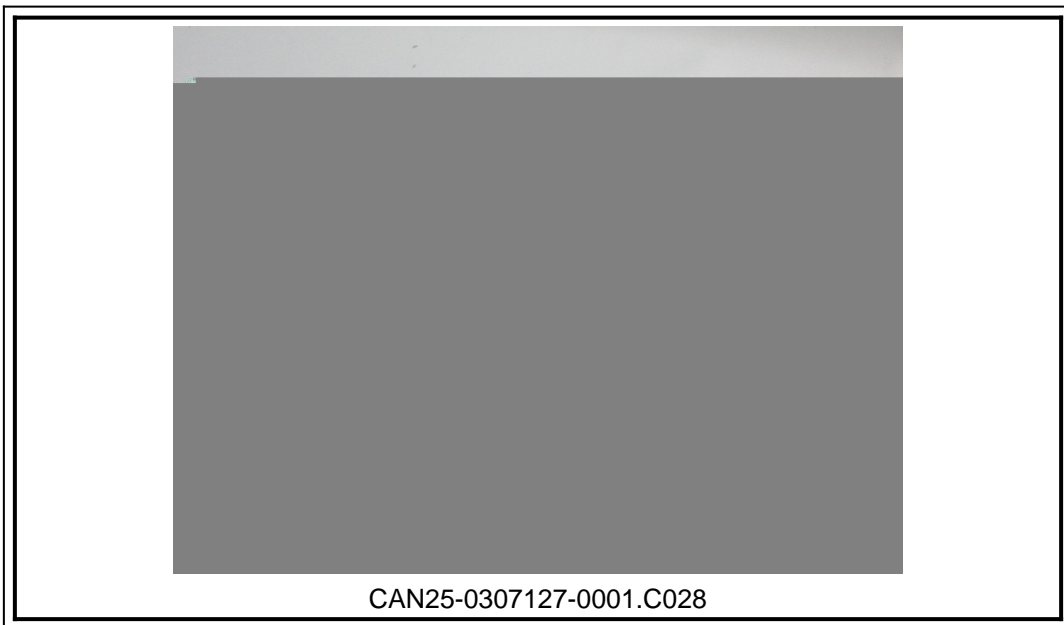
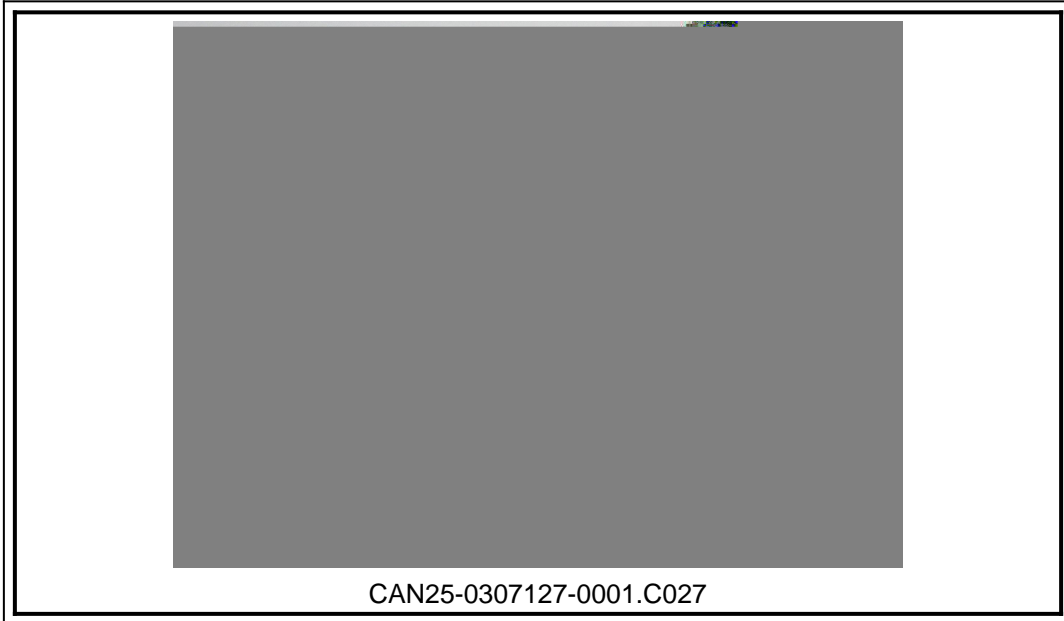


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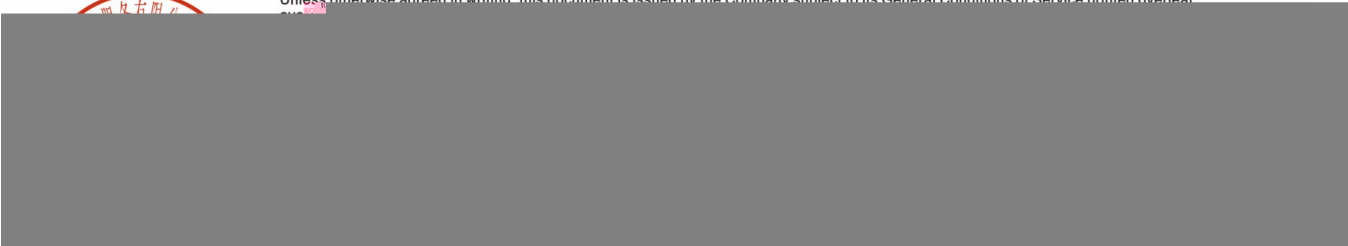
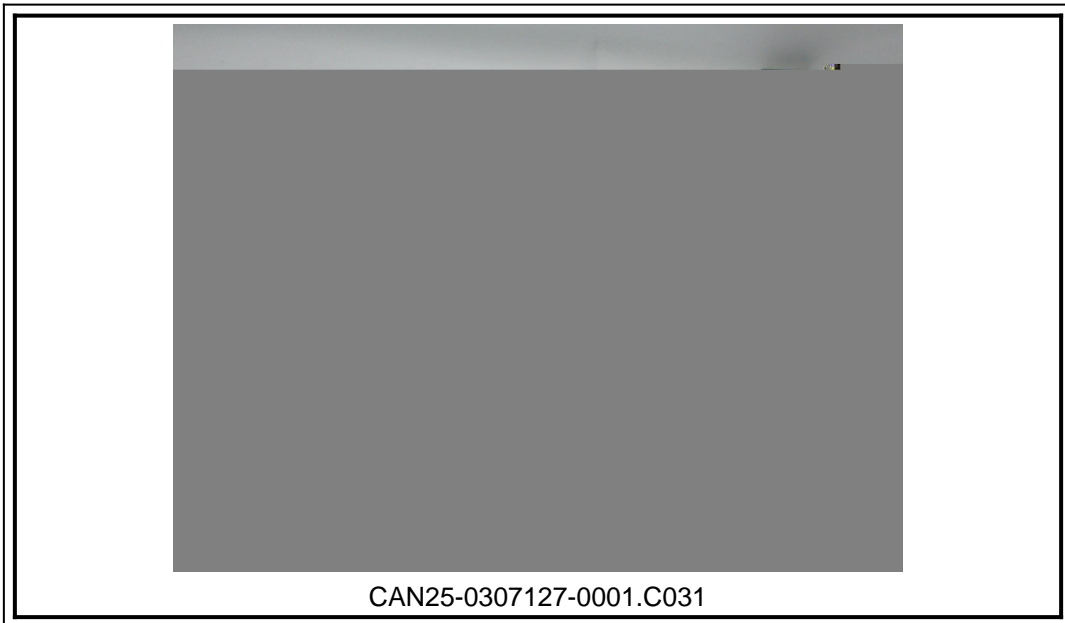
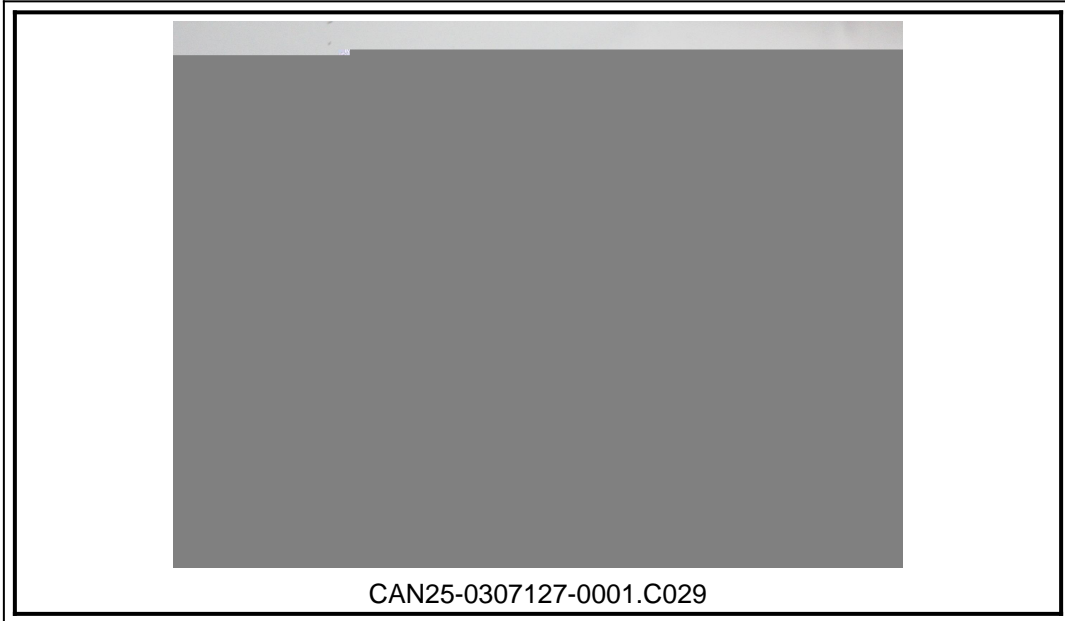


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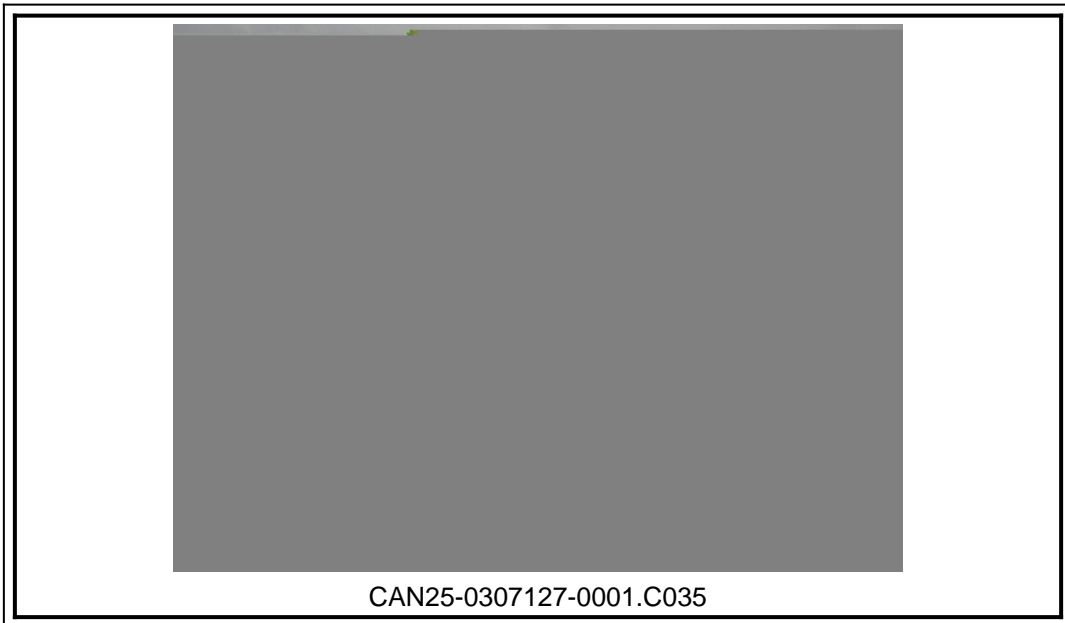


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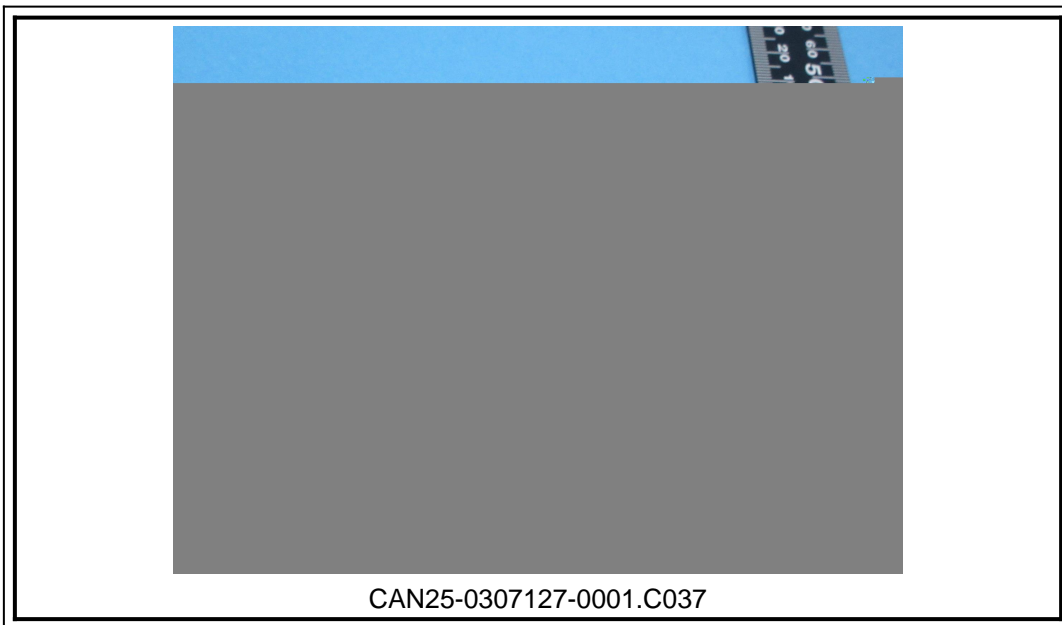
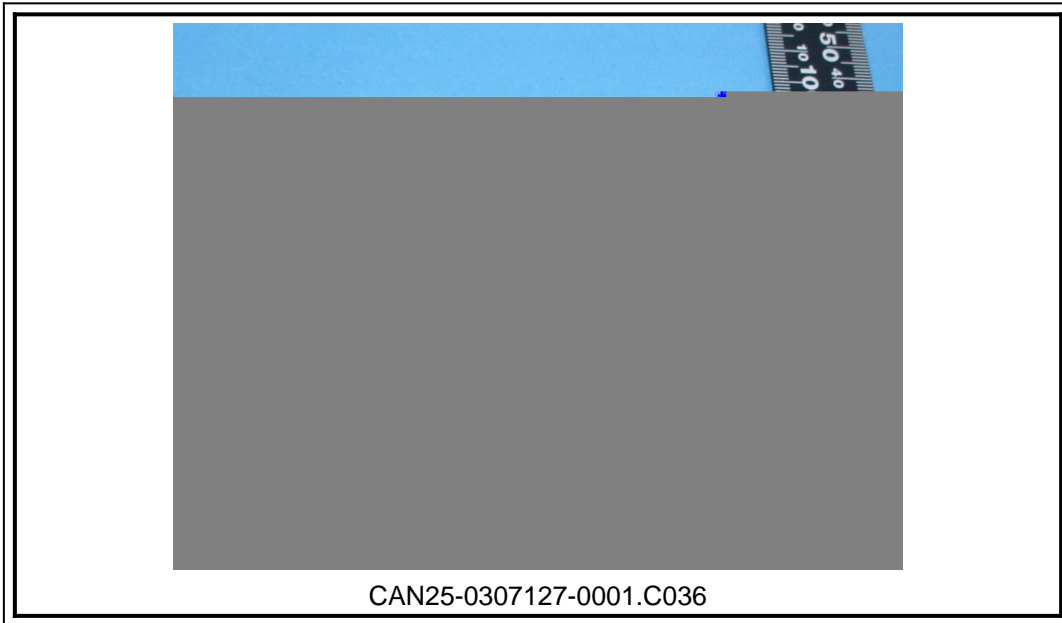


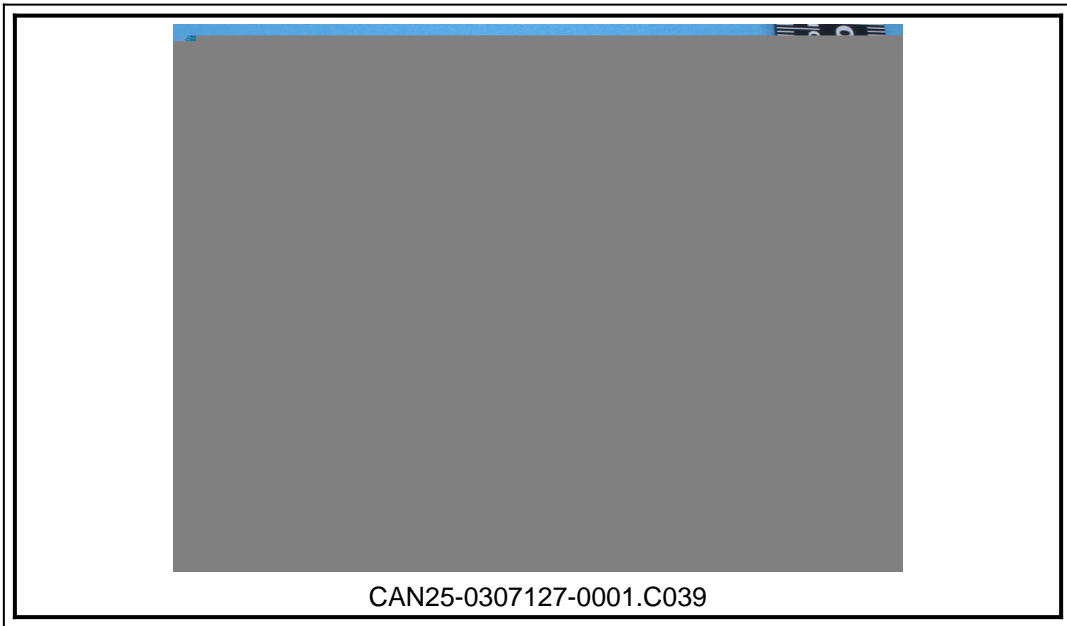
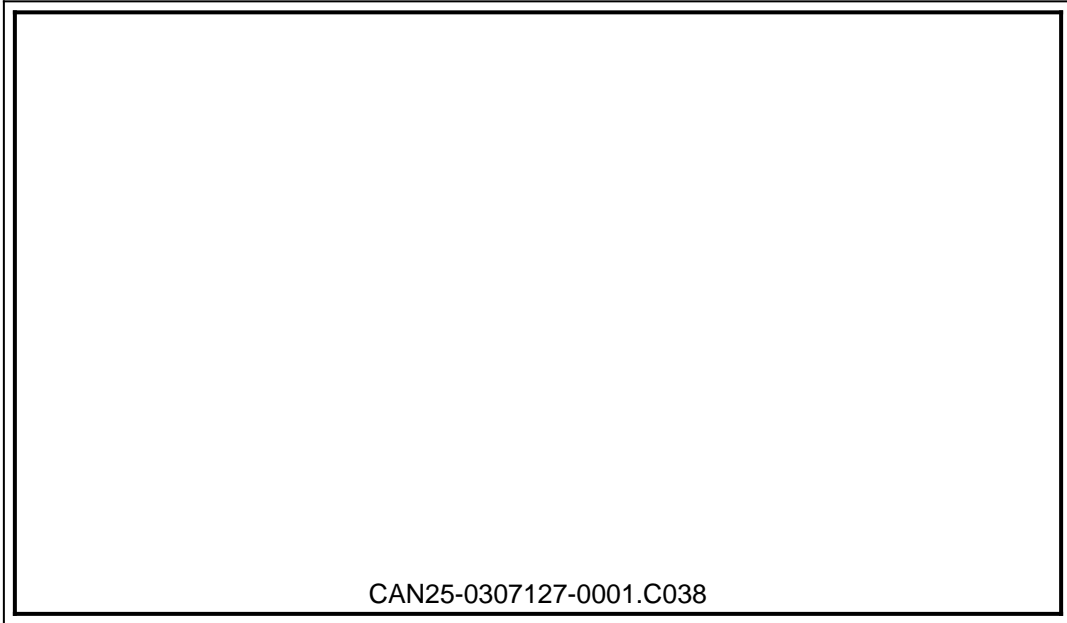
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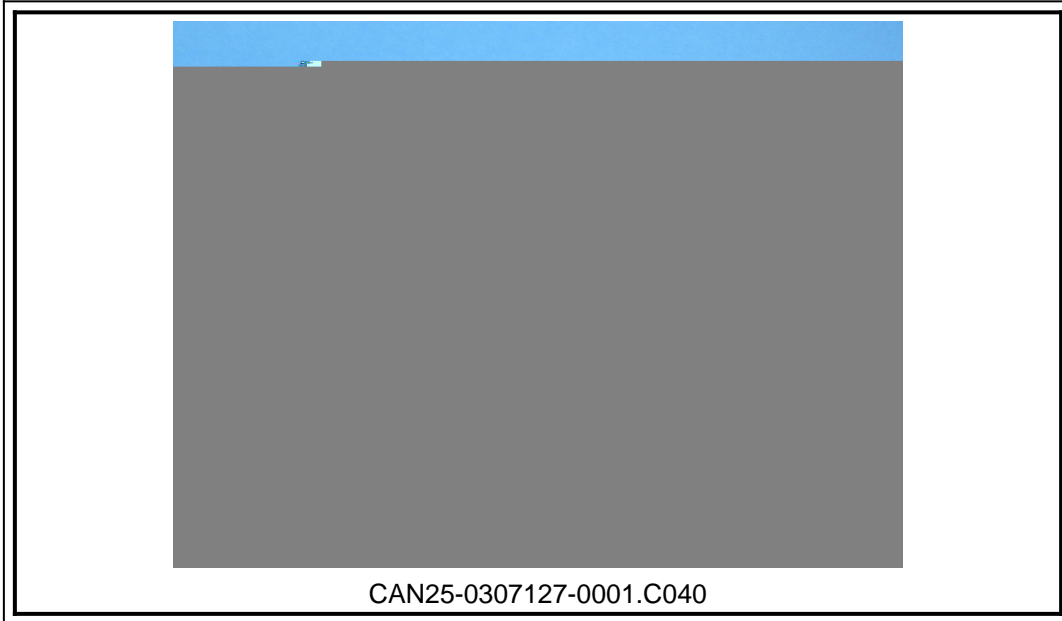


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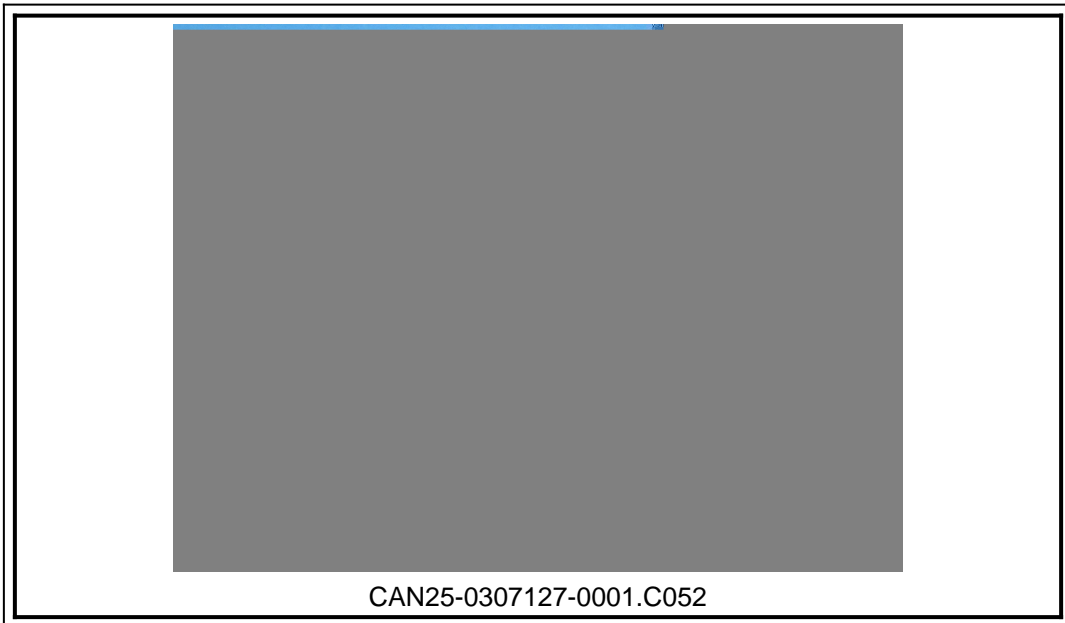
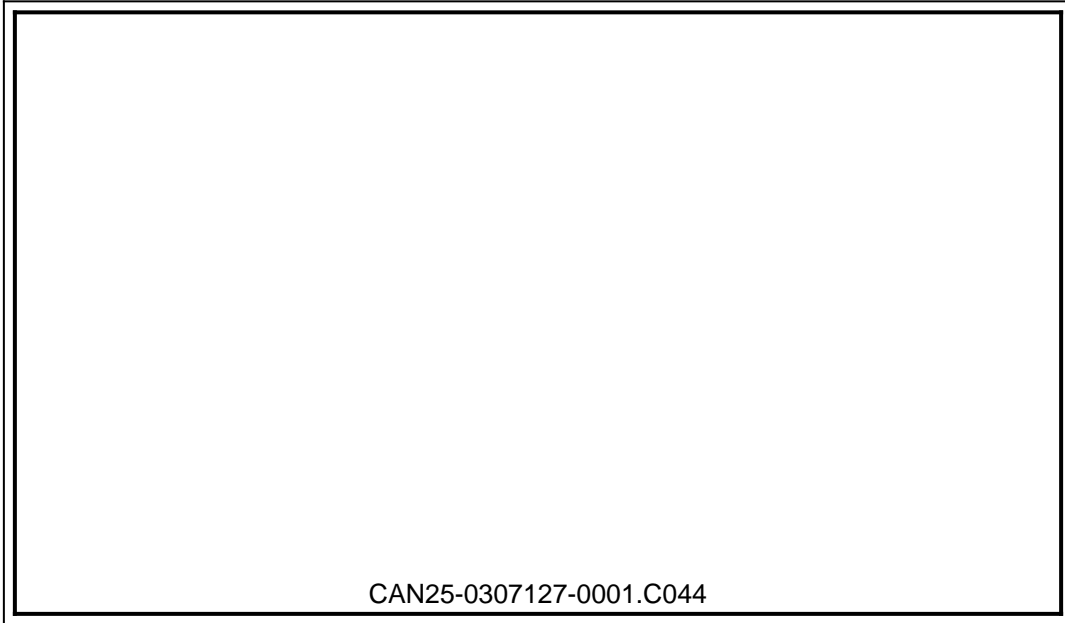


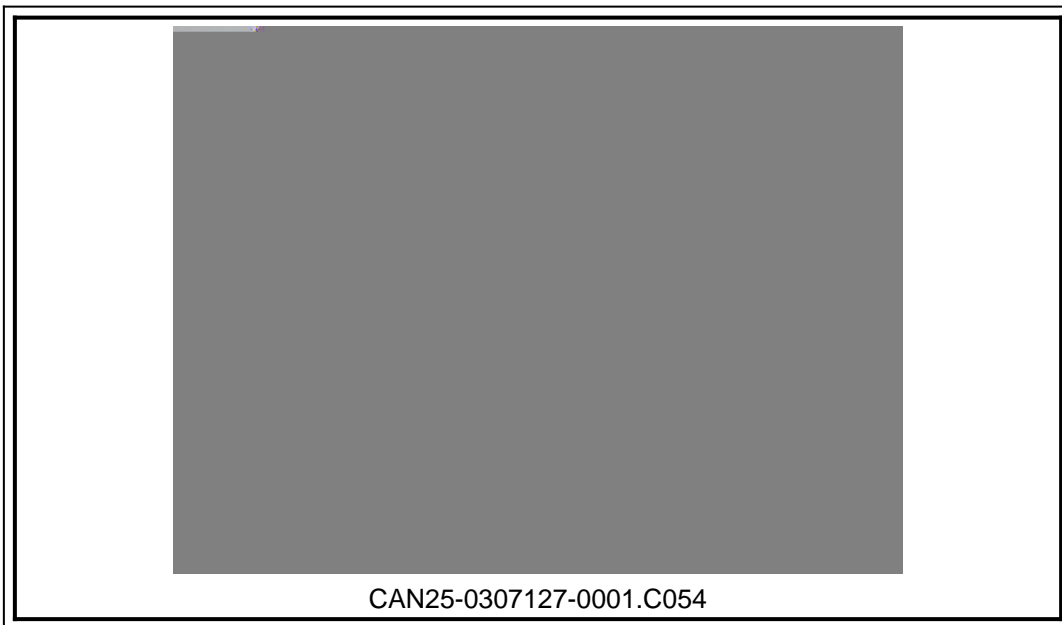
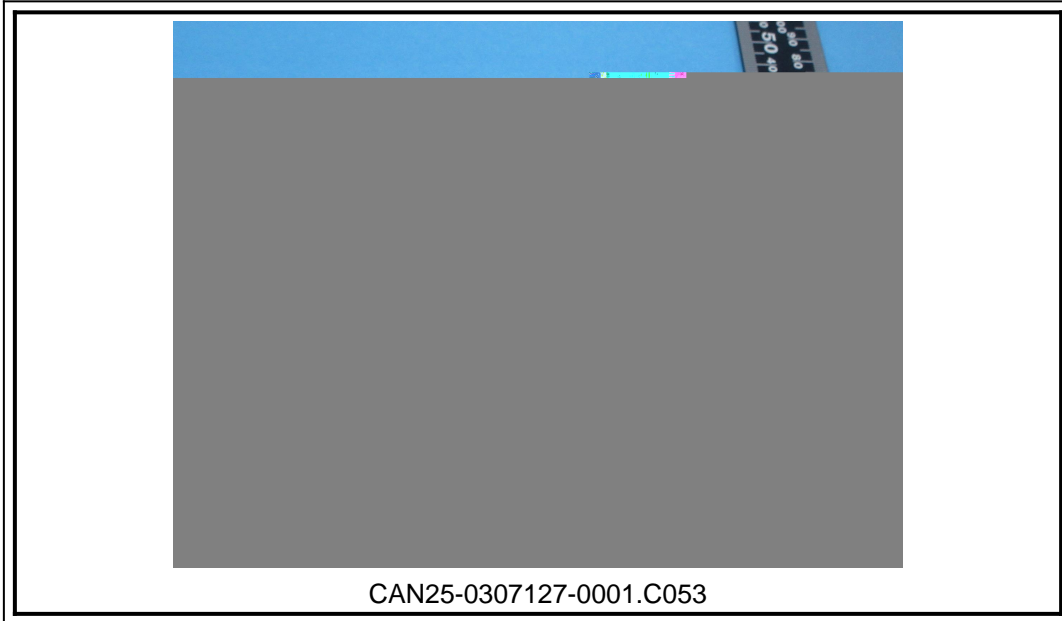
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