

TEST REPORT
UL 588
STANDARD FOR SAFETY
Seasonal and Holiday Decorative Products

Report Number.....: D240809017

Date of issue.....: 2024-08-13

Total number of pages: 16

Testing Laboratory.....: Dongguan Hongnuo Product Testing Service Co., Ltd

Address.....: No. 8, Jinqianling Wujie, Huangjiang, Dongguan, Guangdong, China
:

Applicant's name.....: Heyuan Limei Tree and Light Technology Co.,Ltd

Address.....: No.01 National Road, Longling Industrial Park,Yuancheng District, Heyuan City

Test specification: This test report form is based on the following requirements:

Standard.....: Seasonal and Holiday Decorative Products [UL 588]

Test procedure.....: Safety report

Non-standard test method.....: N/A

Test sample.....: Christmas tree

Trade Mark.....: Lixhey

Manufacturer.....: Same as applicant

Model/Type reference : MUQ75-1523TS-400L, MUQ08-1793TS-470L

Ratings : INPUT:100-120V-50/60Hz, 3.1A(MAX)

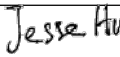
General disclaimer:

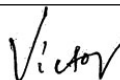
The test results presented in this report relate only to the object tested.

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☒	Testing Laboratory:	Dongguan Hongnuo Product Testing Service Co., Ltd
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Testing location/ address.....	No. 8, Jinqianling Wujie, Huangjiang, Dongguan, Guangdong, China
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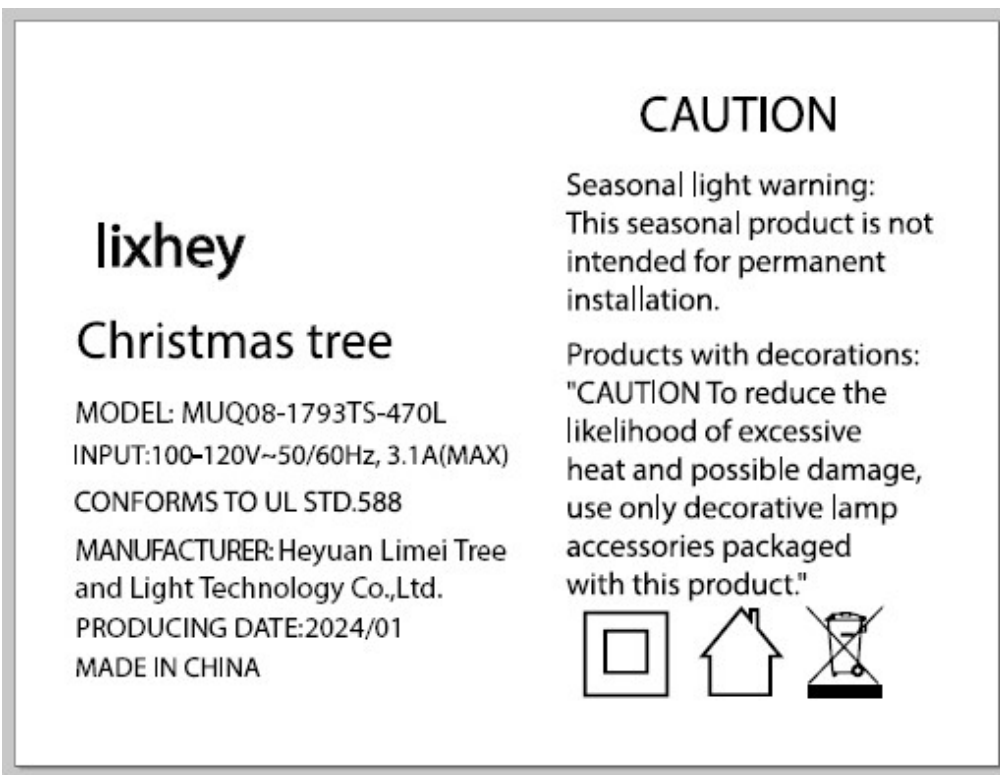
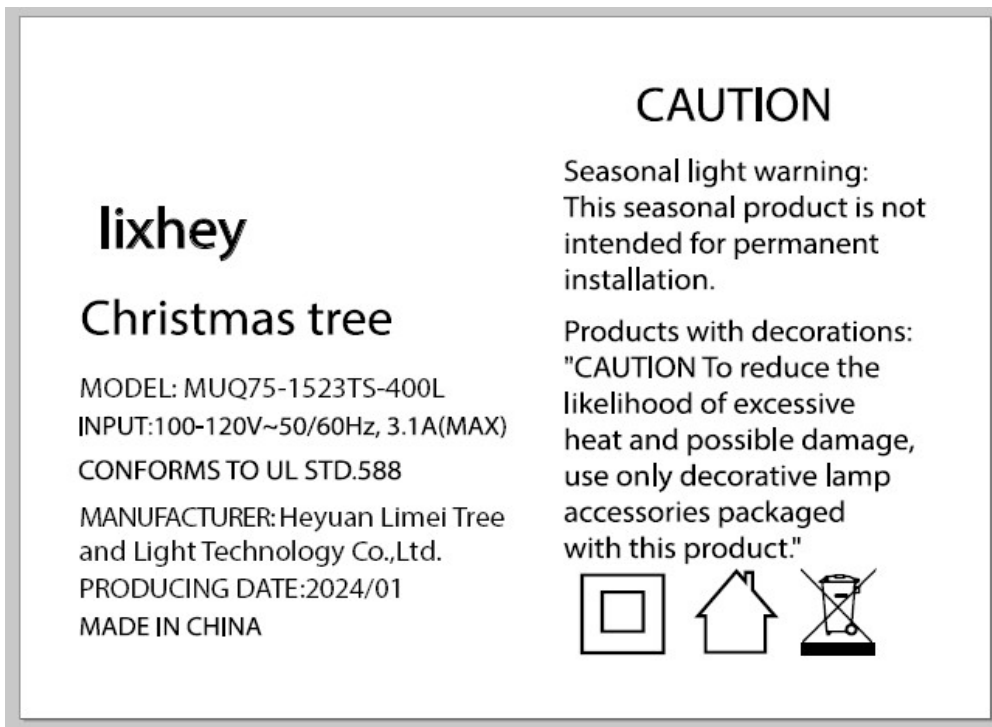
Tested by (name, function, signature).....	Jesse Hu 
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Approved by (name, function, signature)...	Victor Meng 
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Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



List of Attachments (including a total number of pages in each attachment):

NA

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:**Date of receipt of test item.....:** 2024-08-01**Date (s) of performance of tests.....:** 2024-08-01 to 2024-08-13

General product information:

- The product is with a length of flexible cord assembled with a battery compartment.
- The product is for indoor use and provided with manual.
- Test Model

Model	Input Rating	Number of bulbs	Size	Photo
MUQ75-1523TS-400L	100-120V-50/60Hz, 3.1A(MAX)	400	H: 225cm Φ: 53cm	
MUQ08-1793TS-470L	100-120V-50/60Hz, 3.1A(MAX)	470	H: 240cm Φ: 57cm	

INTRODUCTION			
1	Scope		P
2	Glossary		P
3	Components		P
4	Units of Measurement		P
5	References		P

CONSTRUCTION			
ALL PRODUCTS			
6	General		P
7	Overcurrent Protection		P
8	Materials		P
9	Mechanical Assembly		P
10	Enclosures		P
10.1	General		P
10.2	Metallic enclosures		N/A
10.3	Polymeric enclosure		P
11	Enclosure Openings		N/A
12	Accessibility of Live Parts		N/A
13	Supply Connections		P
13.1	General		N/A
13.2	Cords		P
13.3	Wiring devices		N/A
13.4	Polarization		P
13.5	Grounding		N/A
14	Terminals and Conductive Parts		P
15	Strain Relief		N/A
16	Spacings		P
17	Splices		N/A
18	Class 2 Circuits		N/A
19	Switches		P
20	Printed Wiring Boards		P
21	Bushings		N/A
22	Lampholders		N/A
22.1	General		N/A
22.2	Series-connected		N/A
22.3	Parallel-connected		N/A

23	Lamps		P
24	Lamping		N/A
25	Fuseholders and Fused Attachment Plugs		N/A
26	Devices Employing Insulation-Piercing Terminals		N/A
27	Outdoor-Use Products		N/A
SERIES-CONNECTED STRINGS			N/A
28	General		N/A
PARALLEL-CONNECTED STRINGS			P
29	General		P
DECORATIVE LIGHTING HARNESSSES			N/A
30	General		N/A
DECORATIVE OUTFITS			P
31	General		P
32	Motorized Devices.		N/A
33	Light Sculptures		N/A
DIRECT PLUG-IN UNITS			N/A
34	General		N/A
ORNAMENTS			N/A
35	General		N/A
BATTERY OPERATED PRODUCTS			P
36	General		P

PERFORMANCE			
GENERALP			
37	Cheesecloth Indicators		P
38	Test Sequences		P
ALL PRODUCTS EXCEPT ORNAMENTS			
39	General		N/A
40	Leakage Current Test		P
41	Leakage Current Following Humidity Conditioning		P
42	Input Test		P
43	Temperature Test		P
44	Mounting Position Test		P
45	Dielectric Voltage-Withstand Test		P
46	Strain Relief Test		N/A
47	Wire Push-Back Relief Test		N/A
48	Abnormal Operation Test		N/A
49	Component Power Measurement Test		N/A

50	Downward Burning Rate Test		P
51	Conductivity of Decorative Parts Test		P
52	Routine Flexing Test		N/A
53	Slip-Ring Endurance Test		N/A
54	Temperature Tests for Devices Employing Insulation-Piercing Terminals		N/A
54.1	General		N/A
54.2	Temperature test		N/A
54.3	Thermal cycling		N/A
54.4	Strain relief/terminal temperature		N/A
55	Abnormal Tests for Controllers		N/A
55.1	General		N/A
55.2	Abnormal operation test		N/A
55.3	Overload test		N/A
56	Tests for Permanence of Cord Tag		P
56.1	General		P
56.2	Test conditions		P
56.3	Test method		P
PRODUCTS EMPLOYING POLYMERIC ENCLOSURES			N/A
57	General		N/A
58	Enclosure Mold Stress Relief Test		N/A
59	Drop Test		N/A
60	Impact Test		N/A
61	Cold Impact Test		N/A
62	Resistance to Crushing Test		N/A
63	Adhesive Test		N/A
PRODUCTS EMPLOYING OVERCURRENT PROTECTIVE DEVICES			N/A
64	General		N/A
65	Calibration Test		N/A
66	Fault Current Test		N/A
67	Fuseholder Temperature Test		N/A
68	Fuseholder Crush Test		N/A
69	Fuseholder Cover Test		N/A
PRODUCTS EMPLOYING CORD-CONNECTED WIRING DEVICES OR POWER INLETS			N/A
70	General		N/A
71	Strain Relief Test		N/A
72	Reliability of Conductor Connections Test		N/A
73	Security of Blades Test		N/A
74	Security of Input Contacts Test		N/A
75	Security of Insulation Test		N/A

76	Accessibility Test		N/A
PRODUCTS EMPLOYING SERIES-CONNECTED LAMPHOLDERS			N/A
77	General		N/A
78	Oven Test		N/A
79	Lampholder Strain Relief Tests		N/A
79.1	Lead pull test		N/A
79.2	Secureness of leads test		N/A
80	Secureness of Lampholder Contacts Test		N/A
81	Lampholder Millivolt Drop Test		N/A
82	Rope Strength Test		N/A
83	Crush Test		N/A
84	Cascade Lamp Burnout Simulation Test.		N/A
PRODUCTS PROVIDED WITH SELF-SHORTING CONTACTS			N/A
85	Cascading Lamp Temperature Test		N/A
86	Cycling Test		N/A
87	Input Test		N/A
PRODUCTS INTENDED FOR OUTDOOR USE			N/A
88	General		N/A
89	Rain Test		N/A
90	Rain Test For Series-Connected Lighting Strings		N/A
91	Standing Water Immersion Test		N/A
92	Gasket Test		N/A
93	Gasket Adhesion Test		N/A
94	Ultraviolet (UV) Light Exposure and Water Immersion Tests		N/A
94.1	General		N/A
94.2	UV conditioning		N/A
94.3	Water immersion		N/A
DECORATIVE LIGHTING STRINGS			P
95	Flexing Test		P
96	Decorative Lighting String Intended for Use on a Patio Umbrella		N/A
97	Temperature Test After Flexing		P
TREE STANDS			P
98	General		P
99	Stability Test		P
100	Overflow Test		N/A
DIRECT PLUG-IN UNITS			N/A
101	General		N/A
ELECTRONICALLY-OPERATED ORNAMENTS			P
102	General		P

103	Leakage Current Test		P
104	Temperature Test at 200 mA (Electronically-Operated)		P
105	Dielectric Voltage-Withstand Test		P
106	Enclosure Mold Stress Relief Test		P
107	Strain Relief Test		N/A
108	Drop Test		P
109	High Current Abnormal Test		P
110	High Current Inrush Test		P
111	Series Cascade Burnout Test		N/A
112	Abnormal Operation Test		N/A
113	Voltage Drop Test		P
NON-ELECTRONICALLY-OPERATED ORNAMENTS			N/A
114	General		N/A
115	Temperature Test at 200 mA (Non-Electronically-Operated)		N/A
116	Cascade Lamp Burnout Simulation Test		N/A
MANUFACTURING AND PRODUCTION TESTS			N/A
117	Production-Line Dielectric Voltage-Withstand Test		N/A
118	Lamping Test		N/A
119	Polarization Continuity Test		N/A
120	Grounding Continuity Test		N/A
RATINGS			N/A
121	Details		N/A
MARKINGS			P
122	General		P
123	Product Markings		P
124	Product/Cord Tag Markings		P
124.1	General		P
125	Cord Tag Markings		P
125.1	General		P
125.2	Products employing replaceable fuses		N/A
125.3	Products employing lamps		N/A
125.4	Products employing load fittings		N/A
125.5	Products without load fittings		P
125.6	Decorative-lighting strings		N/A
125.7	Decorative outfits		N/A
125.8	Tree stands		P
125.9	Ornaments		N/A
125.10	Products employing batteries		P
125.11	Battery supply polarity identification		P

125.12	Bubble lights		N/A
125.13	Class 2 circuits		N/A
126	Carton/Stuffer Sheet/Product/Cord Tag Markings		P
126.1	General		P
126.2	Products employing power inlets		N/A
126.3	Products employing skeleton-type lampholders		N/A
126.4	Decorative-lighting strings		N/A
126.5	Ornaments		N/A
127	Carton Markings		P
127.1	General		P
INSTRUCTION MANUAL			P
128	General		P
129	Instructions Pertaining to the Risk of Fire, Electric Shock, or Injury to Persons		P
129.1	General		P
129.2	Decorative-lighting strings, decorative outfits, and ornaments		P
130	Use and Care Instructions		P
131	User Servicing Instructions		P
SUPPLEMENT SA – SEASONAL-LIGHTING LAMPS			N/A
INTRODUCTION.			N/A
SA1	Scope		N/A
CONSTRUCTION			N/A
SA2	Screw-Base Lamps		N/A
SA2.1	General		N/A
SA2.2	Lamps intended for parallel connection		N/A
SA3	Bubble Lights		N/A
SA4	LED Lamps		N/A
SA5	Outdoor Use LED Lamps		N/A
PERFORMANCE			N/A
LAMPS INTENDED FOR SERIES CONNECTION			N/A
SA6	Maximum Lamp Wattage Test		N/A
LAMPS INTENDED FOR PARALLEL CONNECTION			N/A
SA7	Lamp Screw Base Conformity Test		N/A
SA8	Envelope-to-Base Securement Test		N/A
SA9	Lamp-Envelope Temperature Test.		N/A
BUBBLE LIGHTS			N/A
SA10	General		N/A
SA11	Identification Test		N/A
GLASS LED LAMPS			N/A
SA11A	General		N/A

PRODUCTION LINE TESTS			
SA12	General		N/A
MARKINGS			N/A
SA13	General		N/A
SUPPLEMENT SB – SEASONAL-LIGHTING LAMPHOLDERS			N/A
INTRODUCTION			N/A
SB1	Scope		N/A
SB2	Glossary		N/A
CONSTRUCTION			N/A
SB3	General		N/A
SB4	Depth of Lamp Base Cavity		N/A
SB5	Body Material		N/A
SB6	Metal Screw Shells		N/A
SB7	Skeleton-Type Lampholders		N/A
SB8	Insulation-Piercing Terminals		N/A
SB9	Outdoor-Use Lampholders		N/A
PERFORMANCE			N/A
ALL LAMPHOLDERS			N/A
SB10	General.		N/A
SB11	Dielectric Voltage-Withstand Test		N/A
SB12	Mold Stress Relief Test		N/A
SB13	Screwthread Conformity Test		N/A
SB14	Mechanical Strength of Lampholder Threads Tests.		N/A
SB14.1	Pull test		N/A
SB14.2	Torque test.		N/A
SB15	Secureness of Leads Test		N/A
SB16	Lead Pull Test		N/A
SB17	Crush Test		N/A
SB18	Temperature Tests for Seasonal Lampholders with Insulation-Piercing Terminals		N/A
SB18.1	General		N/A
SB18.2	Temperature test		N/A
SB18.3	Thermal cycling		N/A
SB18.4	Strain relief/terminal temperature		N/A
OUTDOOR-USE LAMPHOLDERS			N/A
SB19	General		N/A
SB20	Rain Test		N/A
SB21	Leakage Current Test		N/A
SB22	Leakage Current Following Humidity Conditioning		N/A
SB23	Ultraviolet (UV) Light Exposure and Water Immersion Tests		N/A

SB23.1	General		N/A
SB23.2	UV conditioning		N/A
SB23.3	Water immersion		N/A
MARKINGS			N/A
SB24	General		N/A
SUPPLEMENT SC – IN-LINE FUSEHOLDERS WITH INSULATION-PIERCING TERMINALS FOR SEASONAL PRODUCTS			N/A
INTRODUCTION			N/A
SC1	Scope		N/A
CONSTRUCTION			N/A
SC2	General		N/A
PERFORMANCE			N/A
SC3	General		N/A
SC4	Temperature Tests for Devices Employing Insulation-Piercing Terminals		N/A
SC5	Drop Test		N/A
SC6	Temperature Test		N/A
SC7	Dielectric Voltage-Withstand Test		N/A
SC8	Calibration Test		N/A
SC9	Fault Current Test		N/A
SC10	Dielectric Voltage-Withstand Test (Repeated)		N/A
SC11	Crush Test		N/A
SC12	Abnormal Pin Protrusion Test		N/A
SC13	Flexing Test.		N/A
SC14	Dielectric Voltage-Withstand Test (Repeated)		N/A
SC15	SC15 Temperature Test After Flexing		N/A
SC16	SC16 Opening Force Test		N/A
SC17	Strain Relief Test		N/A
SC18	Reliability of Conductor Connections Test		N/A
SC19	Security of Insulation Test		N/A
SC20	Fuseholder Cover Test		N/A
SC21	Outdoor-Use In-Line Fuseholders		N/A
SC22	Tests for Permanence of Cord Tag		N/A
MANUFACTURING AND PRODUCTION-LINE TESTS			N/A
SC23	Opening Force Test		N/A
SC24	Open/Close Test		N/A
SC25	Abnormal Pin Protrusion Test		N/A
MARKINGS			N/A
SC26	General.		N/A
SUPPLEMENT SD – STRING LIGHTS FOR ALL-YEAR USE			N/A
INTRODUCTION			N/A

SD1	Scope		N/A
SD2	Definitions		N/A
CONSTRUCTION			N/A
SD3	General		N/A
SD4	Overcurrent Protection		N/A
SD5	Supply Connections		N/A
SD6	General Requirements		N/A
PERFORMANCE			N/A
SD7	General		N/A
SD8	Strain Relief Test		N/A
SD9	Flexing Test		N/A
SD10	Conditioning Test Prior to Rain Test		N/A
SD11	Abnormal Operation Test		N/A
MARKINGS			N/A
SD12	General		N/A
INSTRUCTION MANUAL			N/A
SD13	General		N/A
CARTON MARKINGS			N/A
SD14	General		N/A
SUPPLEMENT SE – COMMERCIAL USE LIGHTING STRINGERS AND ASSEMBLIES			N/A
INTRODUCTION			N/A
SE1	Scope		N/A
SE2	Definitions		N/A
CONSTRUCTION			N/A
SE3	General		N/A
SE4	Supply Connections		N/A
PERFORMANCE			N/A
SE5	General		N/A
SE6	Strain Relief Temperature Test for Commercial Seasonal Lighting Assemblies		N/A
MARKINGS			N/A
SE7	General		N/A
SE8	Cord Tag Markings		N/A
SE9	Carton Markings		N/A
INSTRUCTION MANUAL			N/A
SE10	General		N/A
APPENDIX A			N/A
Standards for Components			N/A

ANNEX 1		TABLE: Critical components information					P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
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Note: all components accord with standard requirements							

Photo documentation

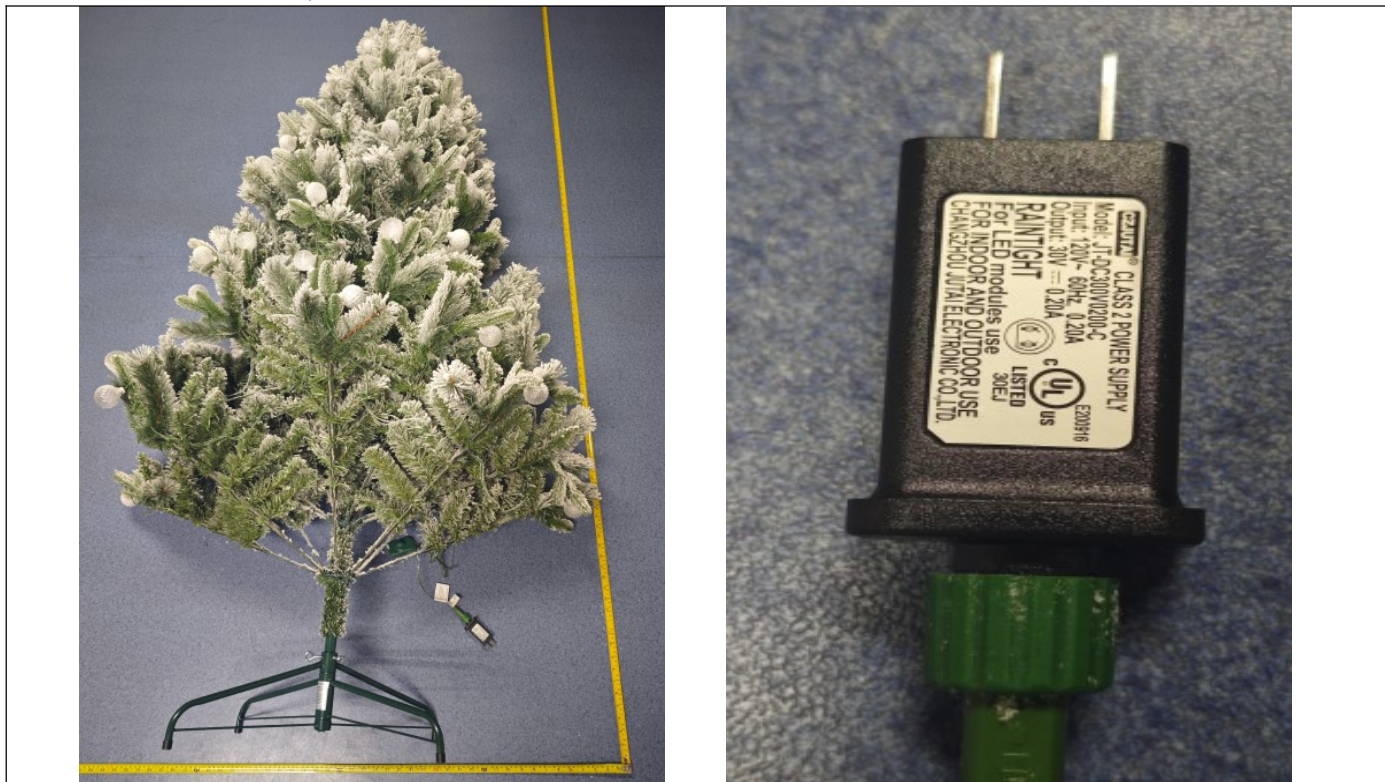
Details of: Outlook
Remark: MUQ75-1523TS-400L



Details of: Outlook
Remark: MUQ75-1523TS-400L



Details of: Outlook
Remark: MUQ08-1793TS-470L



Details of: Outlook
Remark: MUQ08-1793TS-470L



END OF REPORT