

Infrared Thermographic Survey

for

Defects on External Wall

at

Block 1, Casa De Oro, in D.D. 124 Hung Shui Kiu,
N.T.

Date of Issue: 2022-12-30

Client:	Country Sky Engineering Limited Unit 2102-03, 21/F., Chung Kiu Commercial Building, 47-51 Shan Tung Street, Mongkok, Kowloon.
Specialist: 	Metawell Engineering Services Limited Room 1510, Wealth Commercial Centre, 48 Kwong Wa Street, Mongkok Kowloon.

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1. Introduction

Metawell Engineering Services Limited was appointed by the client Country Sky Engineering Limited to carry out Infrared Thermographic Survey for detection of suspected defect on the external wall of Block 1, Casa De Oro, Hung Shui Kiu.

Details of Survey Condition	
Survey Location:	Block 1, Casa De Oro, Hung Shui Kiu
Operator(s):	Rex Ngan, Lee Wai Ming
Date of Survey:	2022-12-07
Time of Survey:	11:00 – 17:00
Weather Condition:	Sunny
Ambient Temperature:	16.6 – 21.5 °C
Relative Humidity:	Average 68 %
Wind Speed:	<5.0 m/s
Surveying Distance:	10m – 30m

2. Scope of Works

The followings are the scope of survey:

- a) To carry out infrared thermographic survey on external walls of target building(s).
- b) To prepare survey report with thermograms and natural photographs indicating surveyed areas and locations of suspected defect.

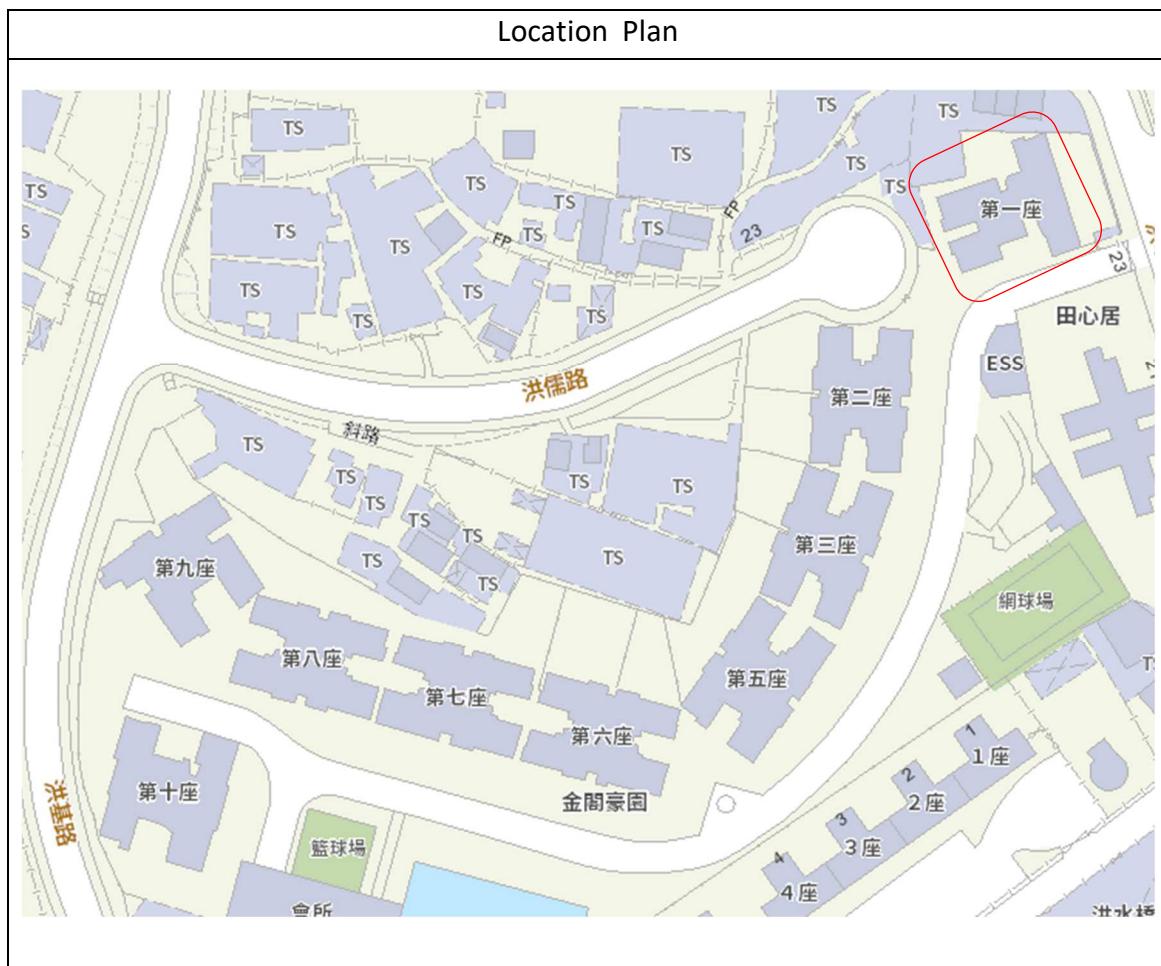
3. Methodology & Equipment

HKCI:TM1 - Detection of Building Surface Defect by Infrared Thermography published by the Hong Kong Concrete Institute was used as guidelines for the survey. The classifications of defects are shown in the table below.

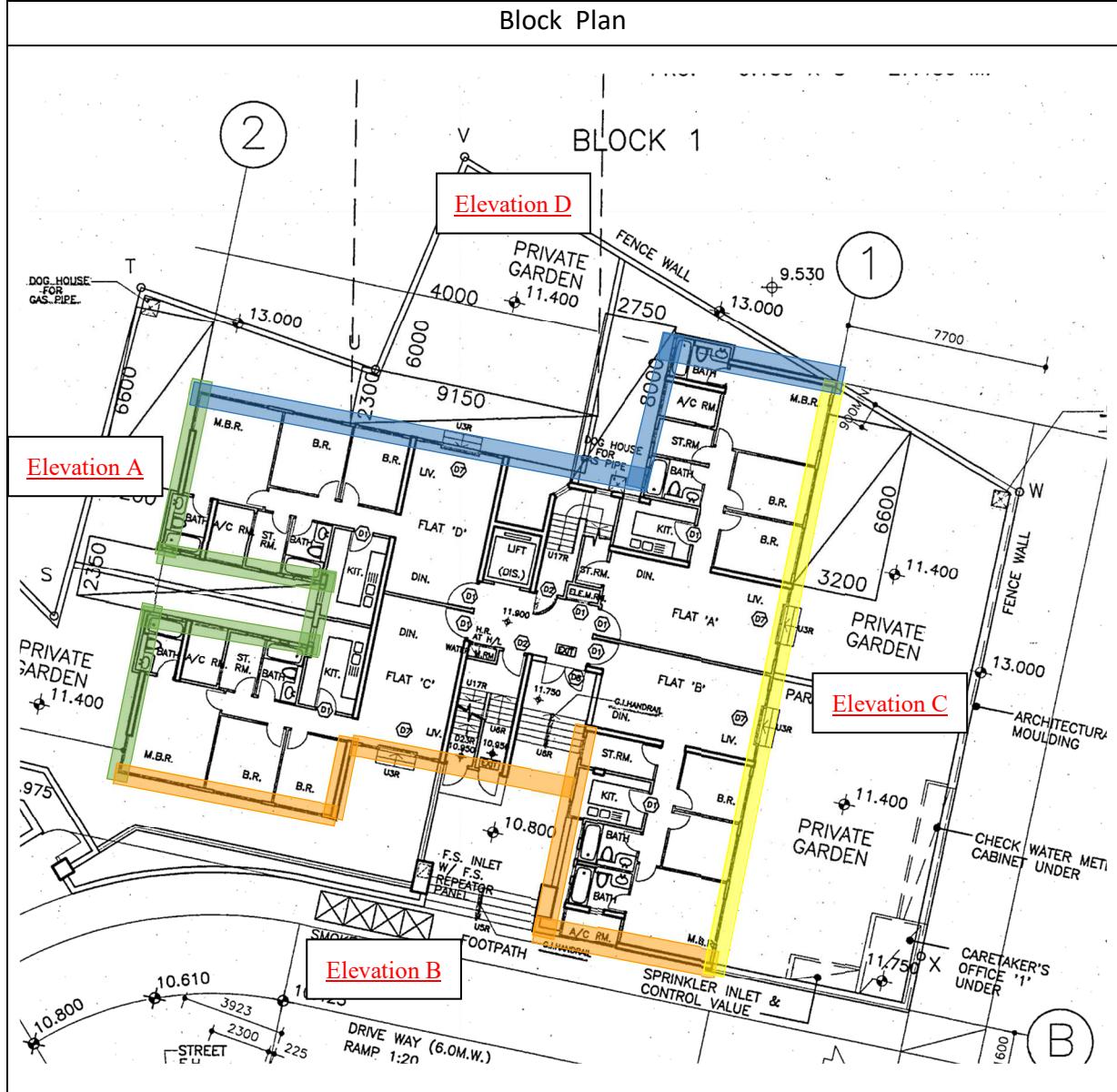
Classification	Description
Level 0	Defects such as: <ul style="list-style-type: none">• sign of water seepage/stains• cracks
Level I	Suspected debonding and defect

DJI Mavic 3 Enterprise Advance was used in the survey. Thermograms produced were analyzed with software developed by manufacturers.

4. Survey Location Plan



Block Plan



5. Defects



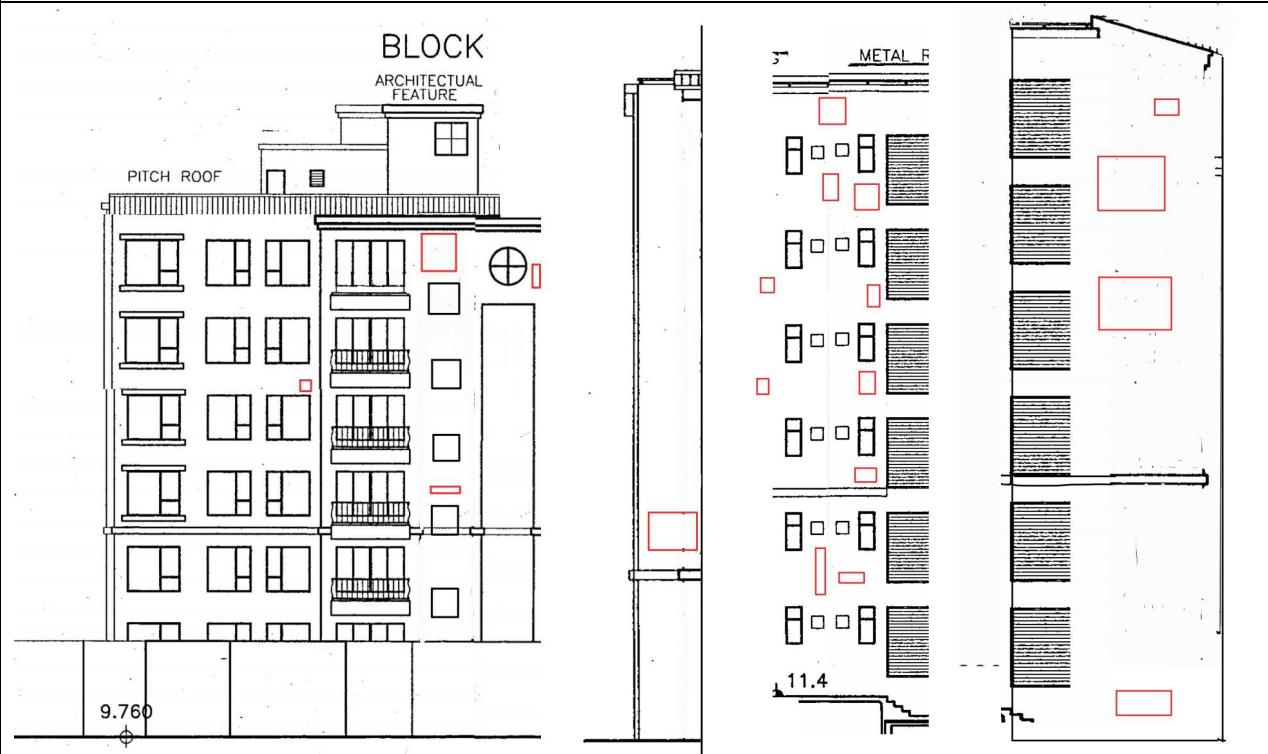
Remark: Not to scale

Elevation

Legend:

- Level 0 – Source of Noise
- Level I – Suspected Debonding
- Steep View of Angle (> 40°)
- Screening Objects

Elevation B



Remark: Not to scale

Elevation

Legend:

- Level 0 – Source of Noise
- Level I – Suspected Debonding
- Steep View of Angle ($> 40^\circ$)
- Screening Objects

Elevation C



HUNG SHUI KIU MAIN STREET

Remark: Not to scale

Elevation

Legend:

-  Level 0 – Source of Noise
 Level I – Suspected Debonding
 Steep View of Angle ($> 40^\circ$)
 Screening Objects

Elevation D



Remark: Not to scale

Elevation

Legend:

- Level 0 – Source of Noise
- Level I – Suspected Debonding
- Steep View of Angle ($> 40^\circ$)
- Screening Objects

6. Summary of Suspected Defects

	<u>Thermogram</u>	<u>Level 1</u>	<u>Level 0</u>	Remarks
Elevation A	DJI_20221207150711_0081_T_FLIR	2		
	DJI_20221207150715_0082_T_FLIR	2		
	DJI_20221207150723_0084_T_FLIR	2		
	DJI_20221207150741_0087_T_FLIR	2		
	DJI_20221207150750_0088_T_FLIR	2		
	DJI_20221207150755_0089_T_FLIR	3		
	DJI_20221207150801_0090_T_FLIR	1		
	DJI_20221207150812_0092_T_FLIR	1		
	DJI_20221207150858_0095_T_FLIR	1		
	DJI_20221207150945_0099_T_FLIR	2		
	DJI_20221207150951_0101_T_FLIR	1		
	DJI_20221207151146_0113_T_FLIR	1		
	DJI_20221207151318_0121_T_FLIR	1		
	DJI_20221207151332_0124_T_FLIR	1		
	DJI_20221207151337_0125_T_FLIR	1		
	DJI_20221207151343_0126_T_FLIR	1		
	DJI_20221207151348_0127_T_FLIR	1		
	DJI_20221207151400_0129_T_FLIR	1		
Elevation B	DJI_20221207151532_0134_T_FLIR	1		
	DJI_20221207151726_0142_T_FLIR	1		
	DJI_20221207151818_0147_T_FLIR	1		
	DJI_20221207151844_0148_T_FLIR	1		
	DJI_20221207151904_0151_T_FLIR	1		
	DJI_20221207152213_0002_T_FLIR	2		
	DJI_20221207152227_0003_T_FLIR	1		
	DJI_20221207152233_0004_T_FLIR	2		
	DJI_20221207152238_0005_T_FLIR	2		
	DJI_20221207152242_0006_T_FLIR	3		
	DJI_20221207152322_0010_T_FLIR	1		
	DJI_20221207152327_0011_T_FLIR	1		
	DJI_20221207152337_0013_T_FLIR	1		
	DJI_20221207152350_0016_T_FLIR	1		
Elevation C	DJI_20221207152543_0024_T_FLIR	1		
Elevation D	DJI_20221207152925_0039_T_FLIR	1		
	DJI_20221207152929_0040_T_FLIR	1		
	DJI_20221207153114_0046_T_FLIR	1		
	DJI_20221207153139_0051_T_FLIR	1		
	DJI_20221207153144_0052_T_FLIR	2		
	DJI_20221207153250_0061_T_FLIR	1		
	DJI_20221207153349_0068_T_FLIR	1		

Total Number of Identified Suspected Defect(s)

Total Number of Identified Suspected Defect(s)		
Elevation	Level 0	Level 1
Elevation A	-	26
Elevation B	-	18
Elevation C	-	1
Elevation D	-	8
Total	-	53

7. Limitations

Infrared Thermographic Survey would be affected by the environmental condition such as wind or humidity.

Due to site condition of the survey area, it might affect some of the survey result, e.g., scaffolding, steep imaging angle or side angle, shadows add/or reflections of other buildings and shadows or blockage of vegetation surrounding the target building.

Moreover, human activities of occupiers would cause noise effects on the survey results such as the use of thermal appliances like exhaust fans, air-conditioner and heater.

8. Caveats

This report prepared by Metawell Engineering Services Limited is confidential to the client for the specific purposes to which it refers. It might be disclosed to other professional advisers assisting the client in respect of that purposes.

The findings in this report were concluded mainly from our infrared thermography executed during the time of inspection.

NO physical test was conduct on external walls of target building(s).

We hereby declare that this report was prepared to the best of our knowledge and judgment.

Reported by:

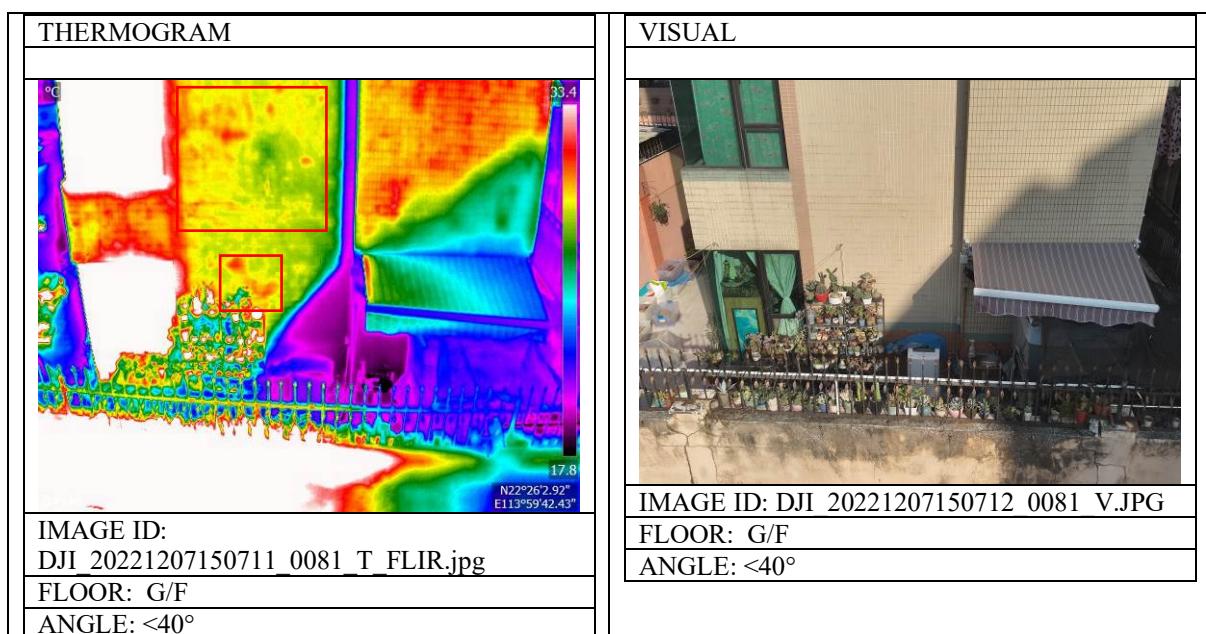
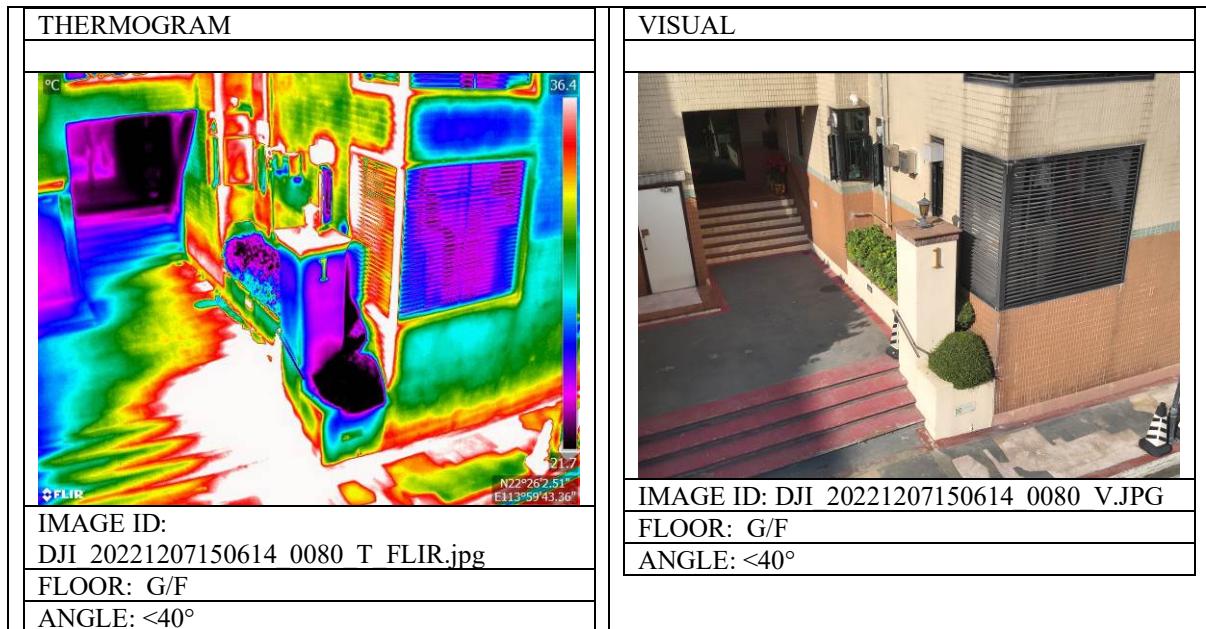
Cathy Wong

Certified by:

Ming Lee
Authorized Signatory

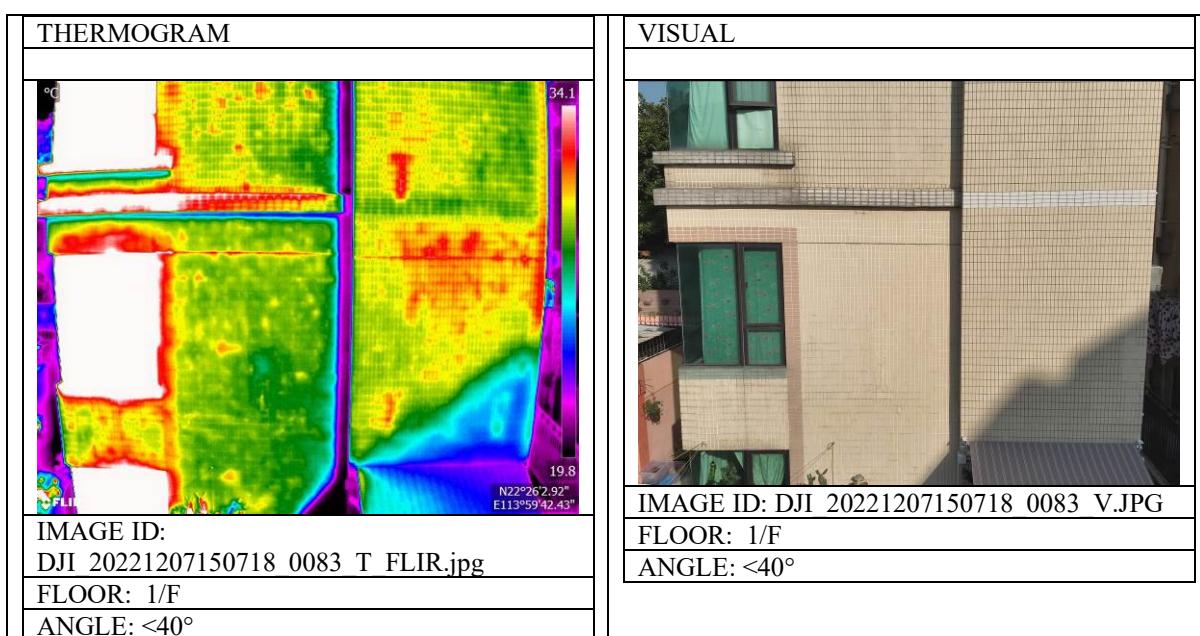
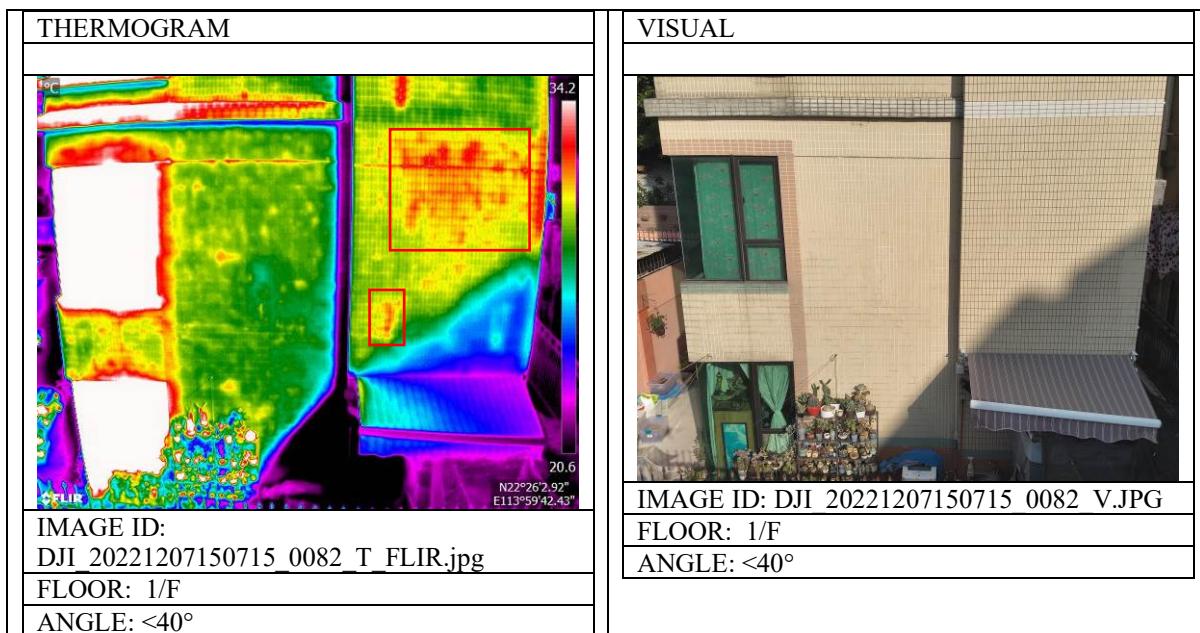
9. Appendix A –Thermograms and Visual Images

10. INSPECTED AREA	ELEVATION A
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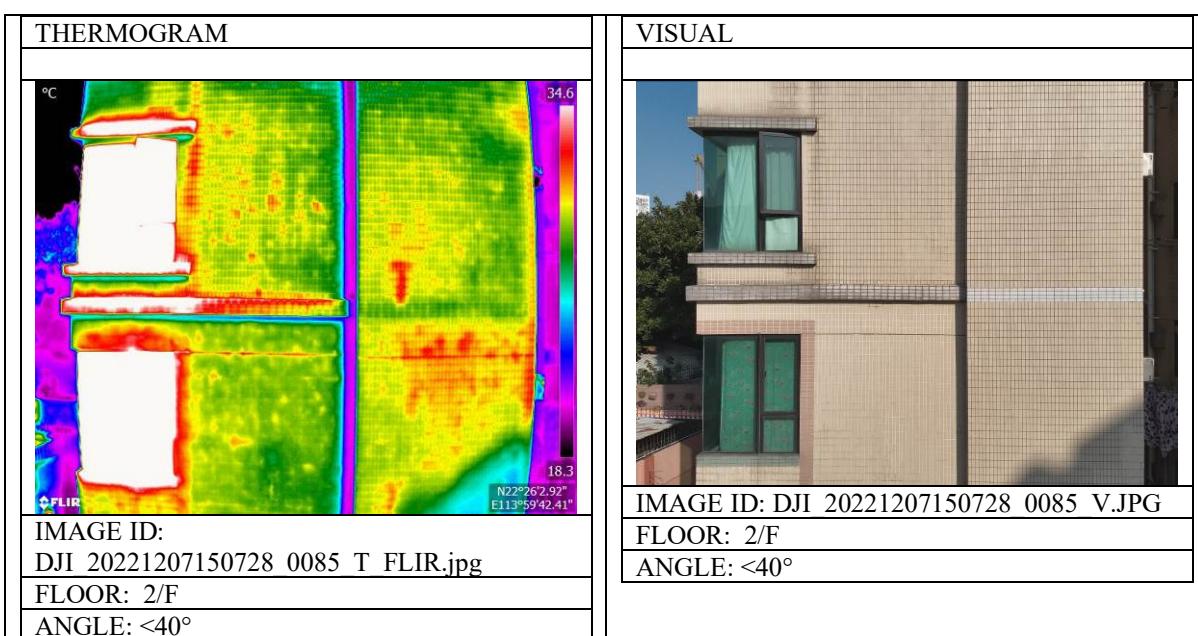
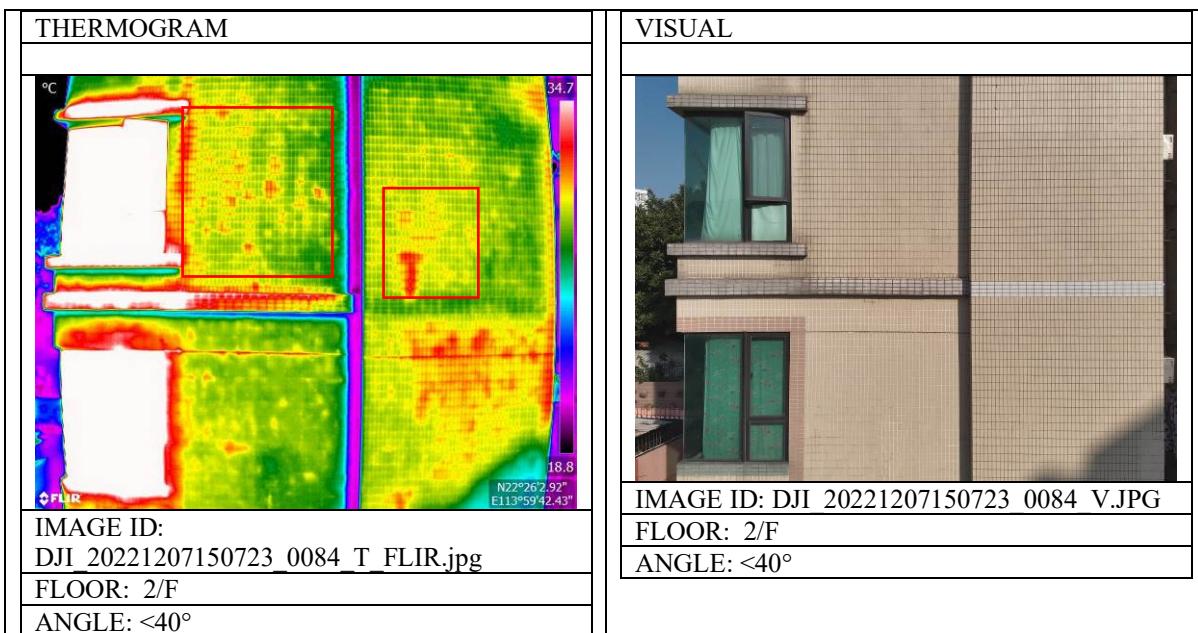
INSPECTED AREA

ELEVATION A



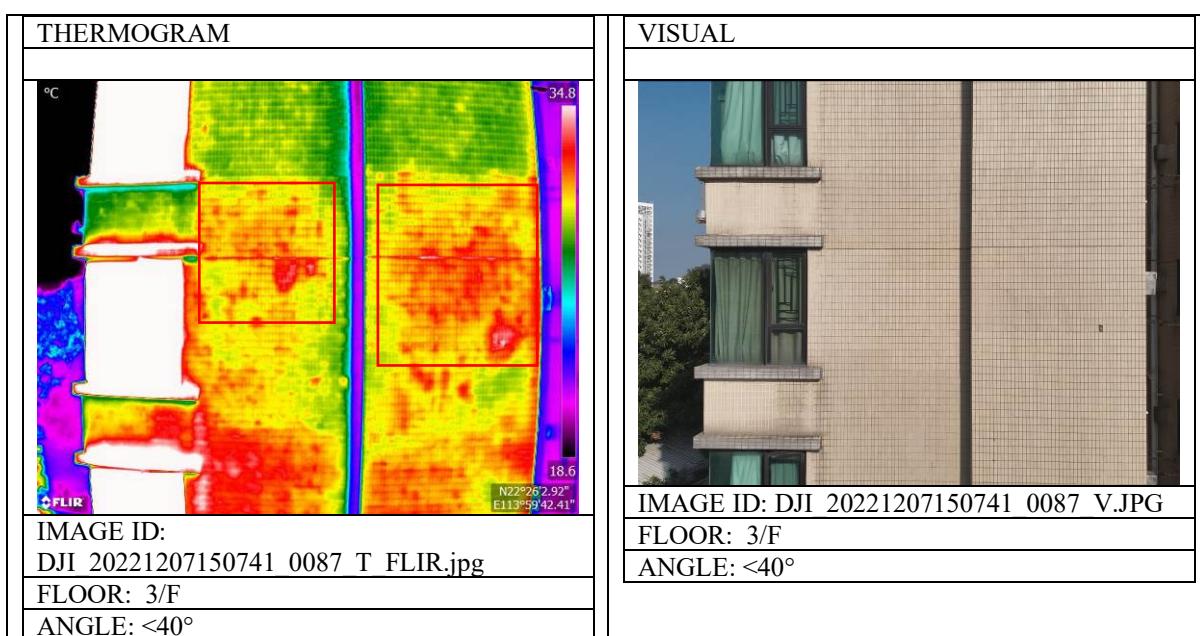
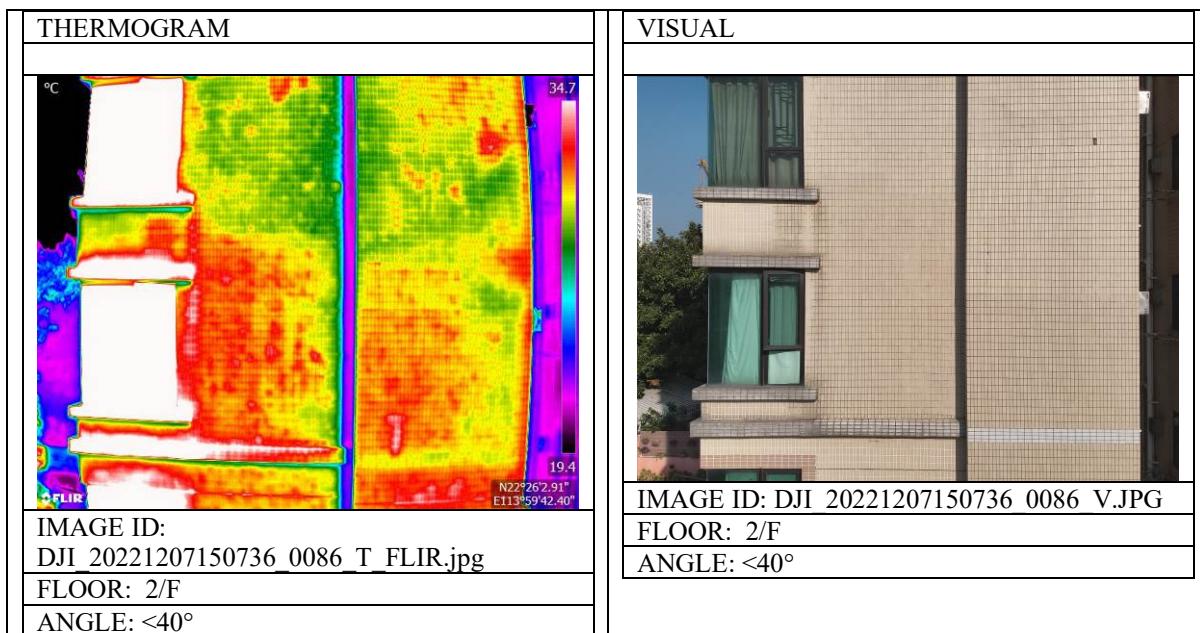
INSPECTED AREA

ELEVATION A



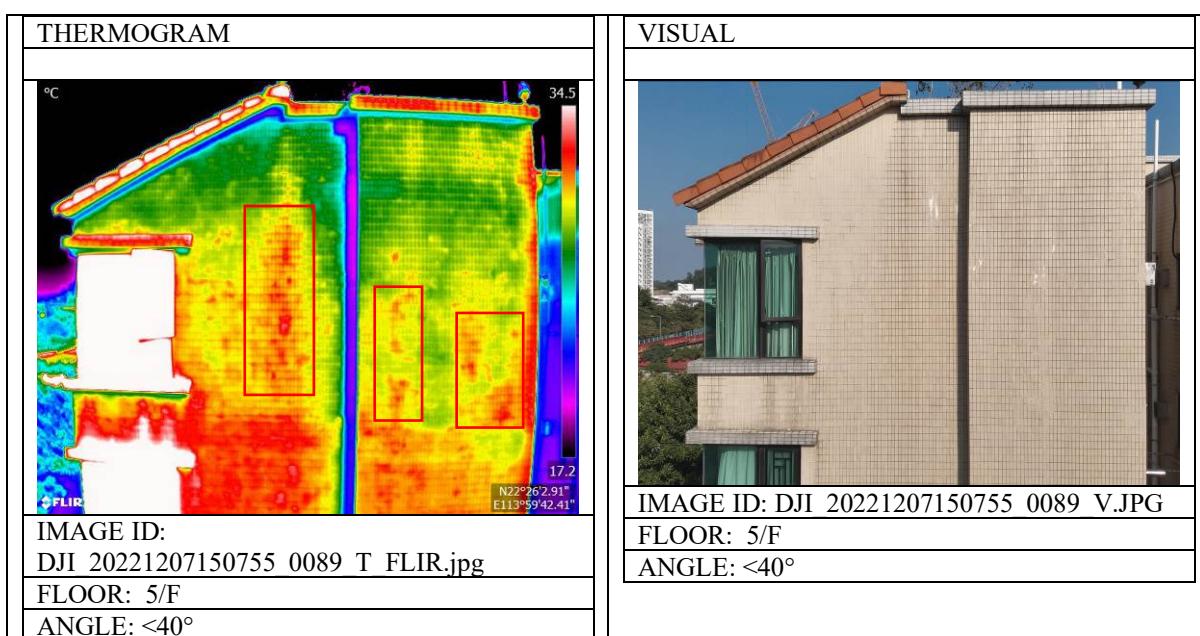
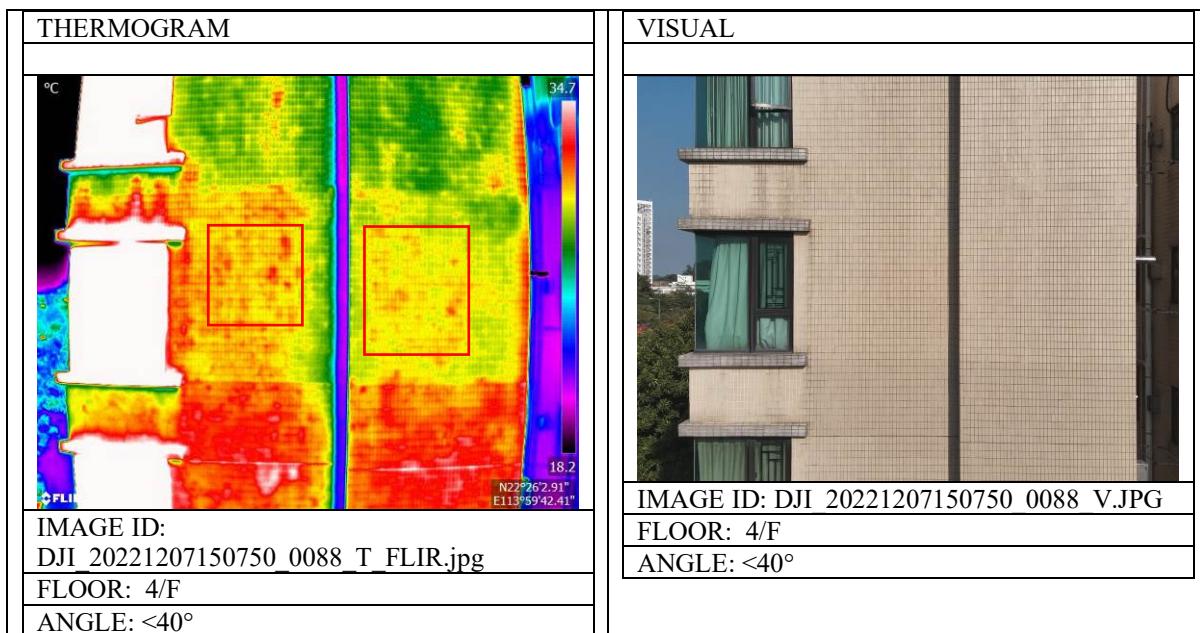
INSPECTED AREA

ELEVATION A

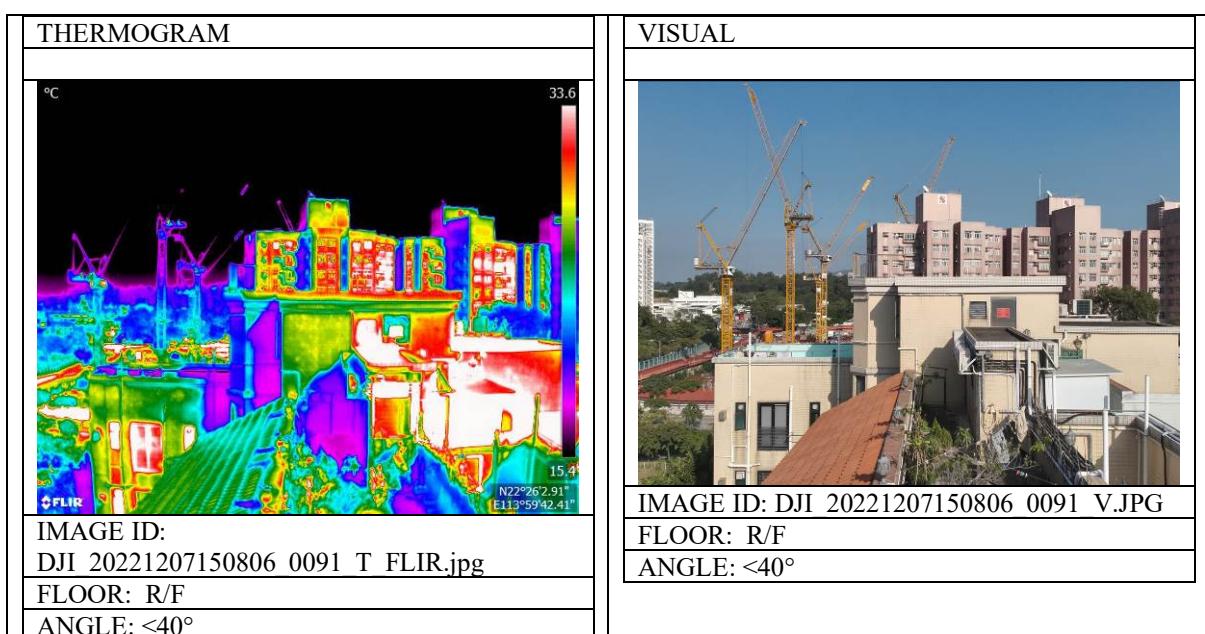
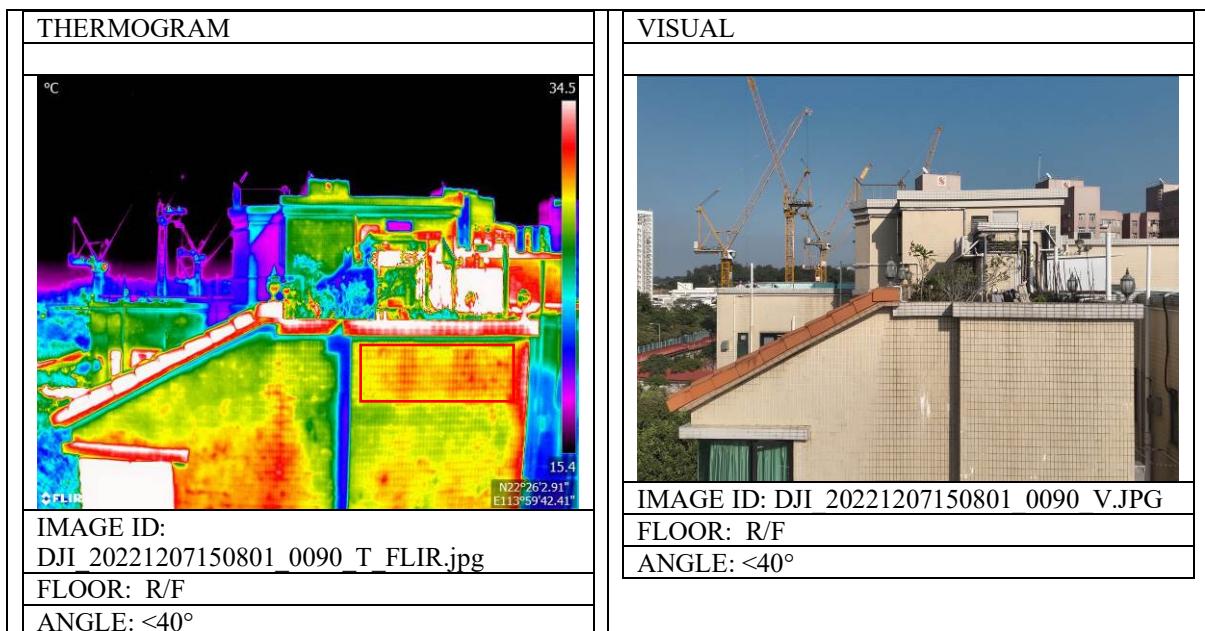


INSPECTED AREA

ELEVATION A



INSPECTED AREA	ELEVATION A
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INSPECTED AREA

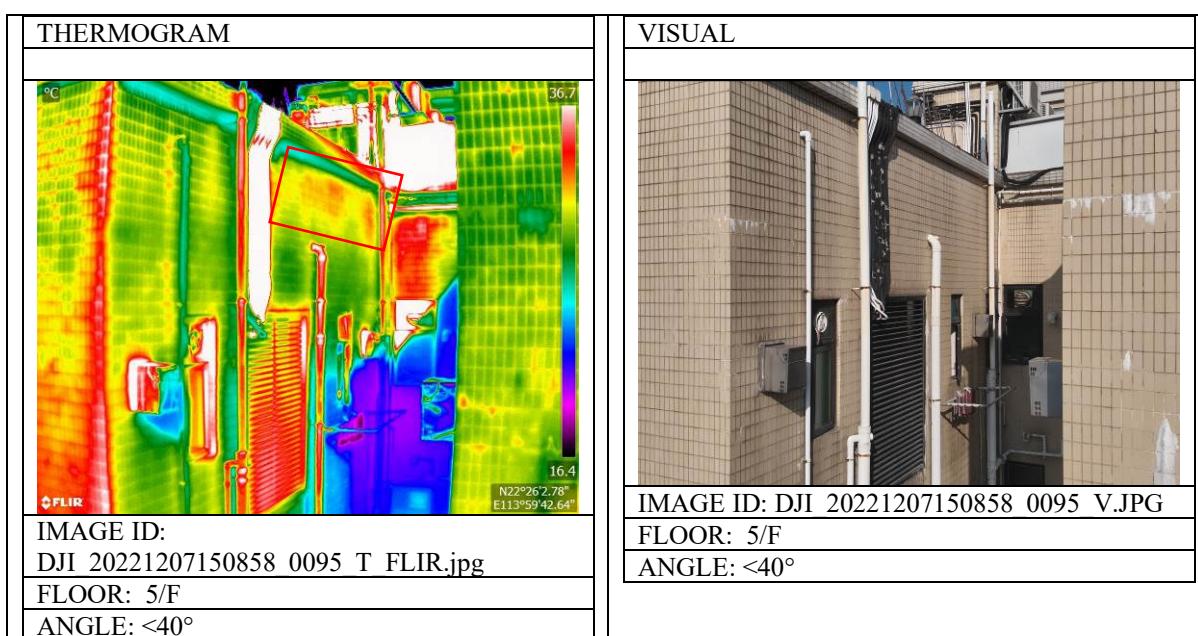
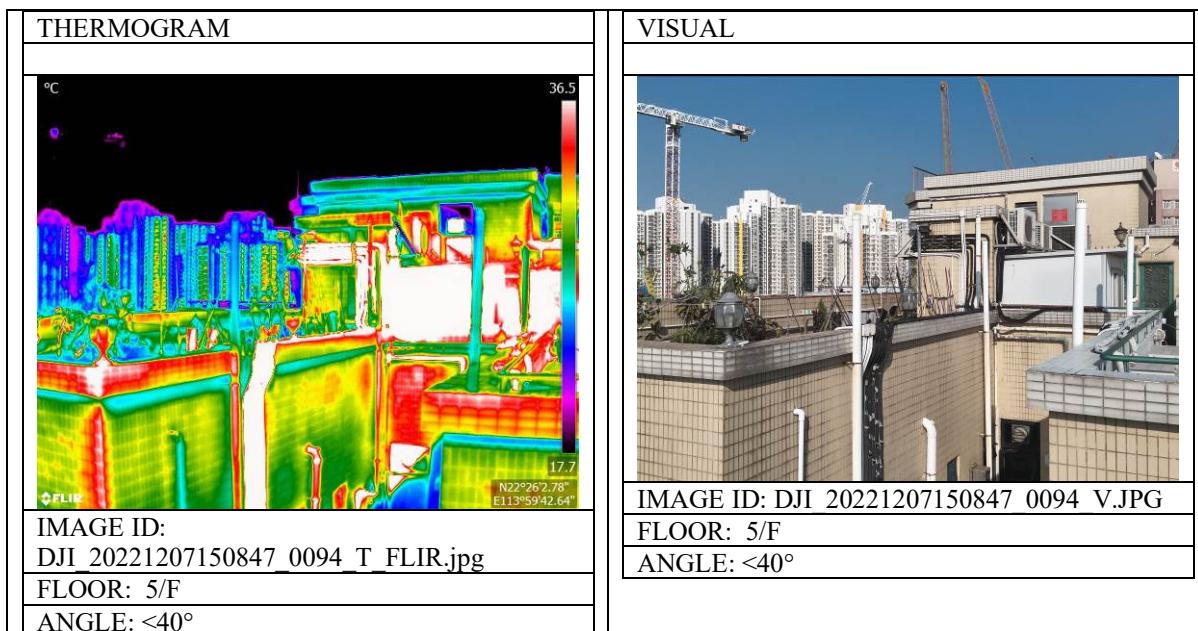
ELEVATION A

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FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

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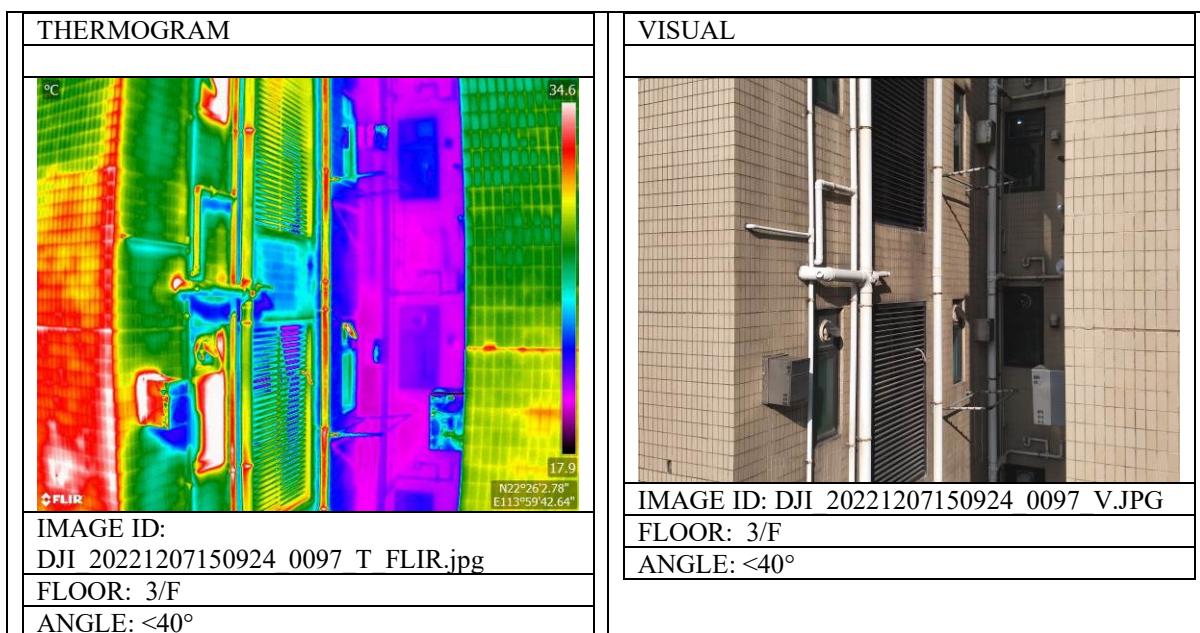
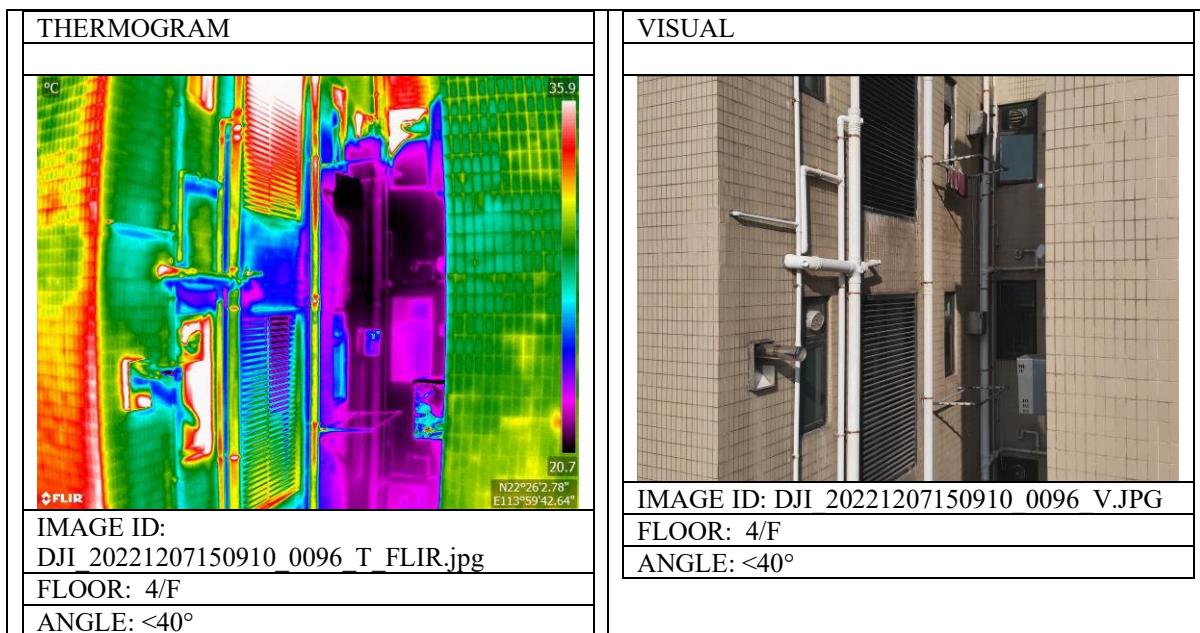
INSPECTED AREA

ELEVATION A

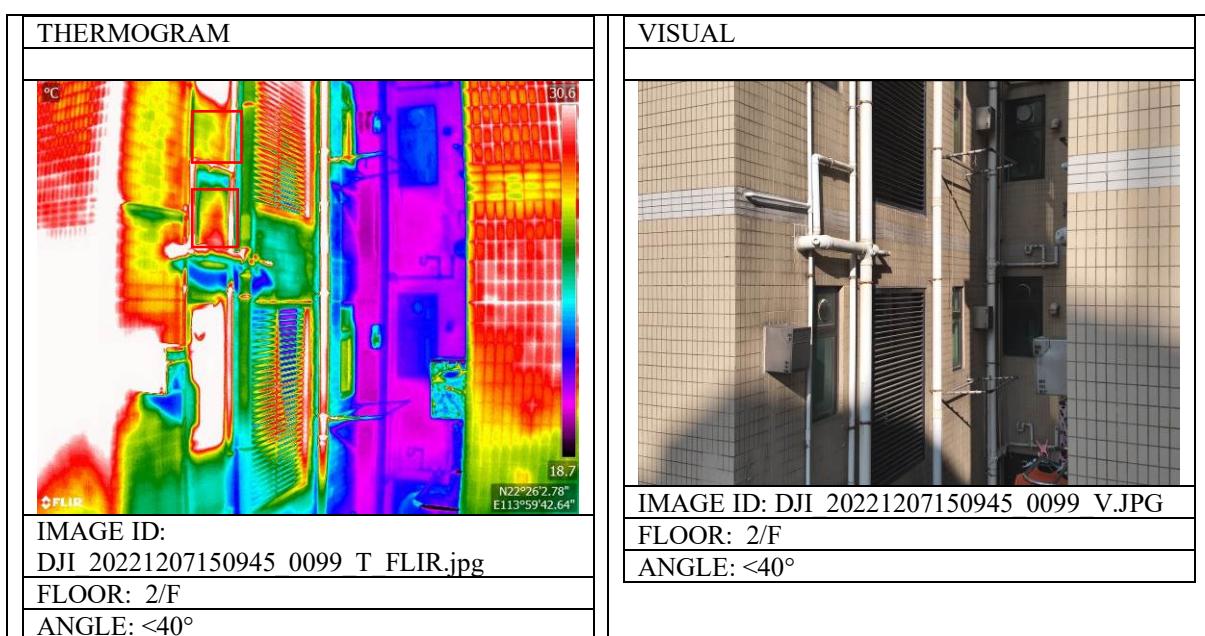
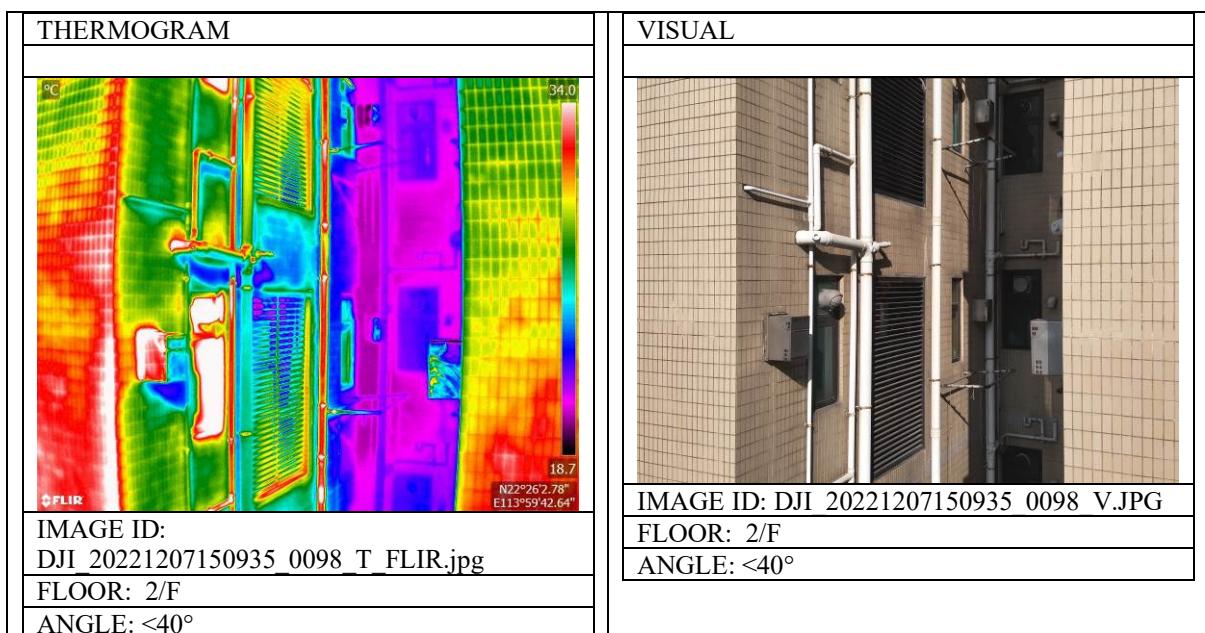


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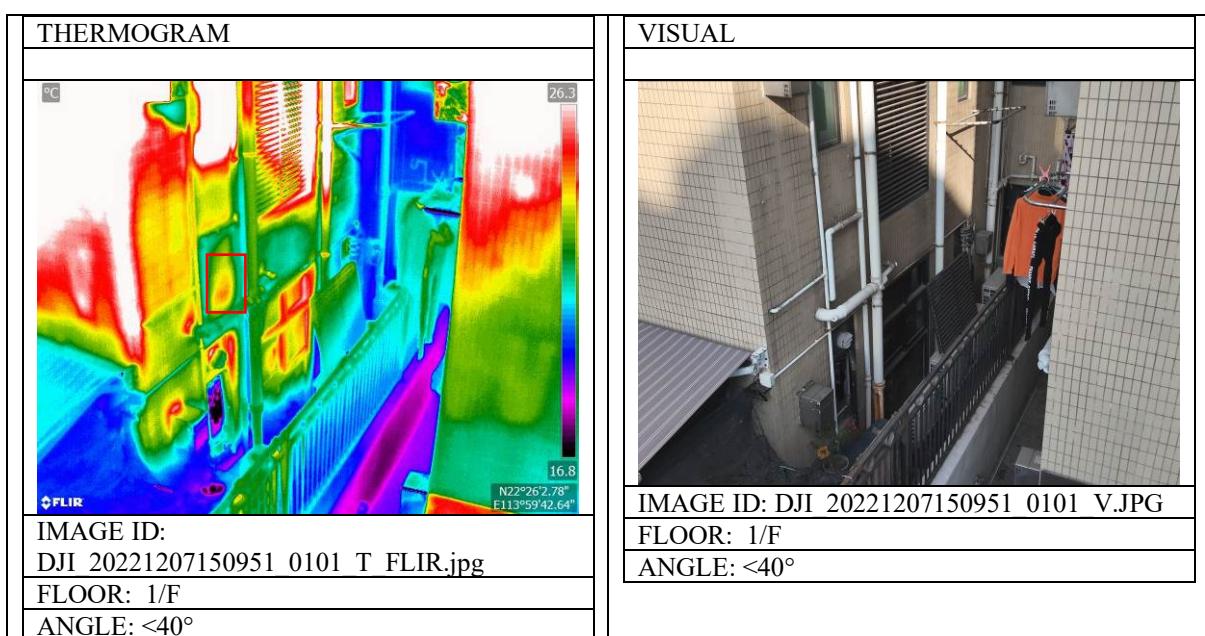
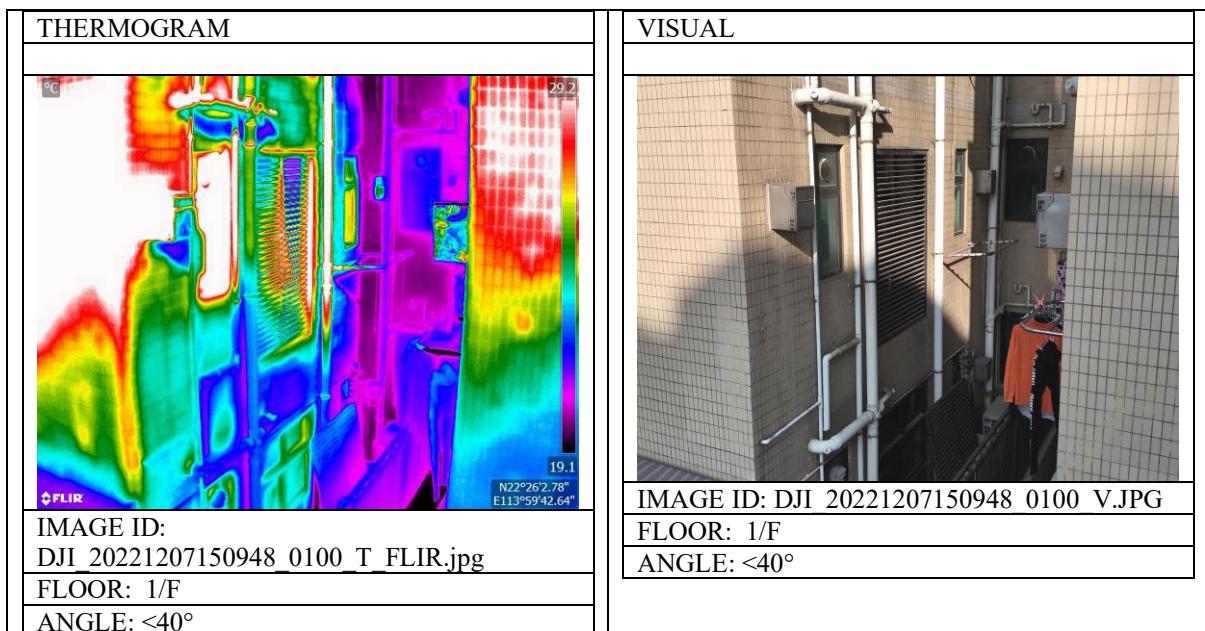
ELEVATION A



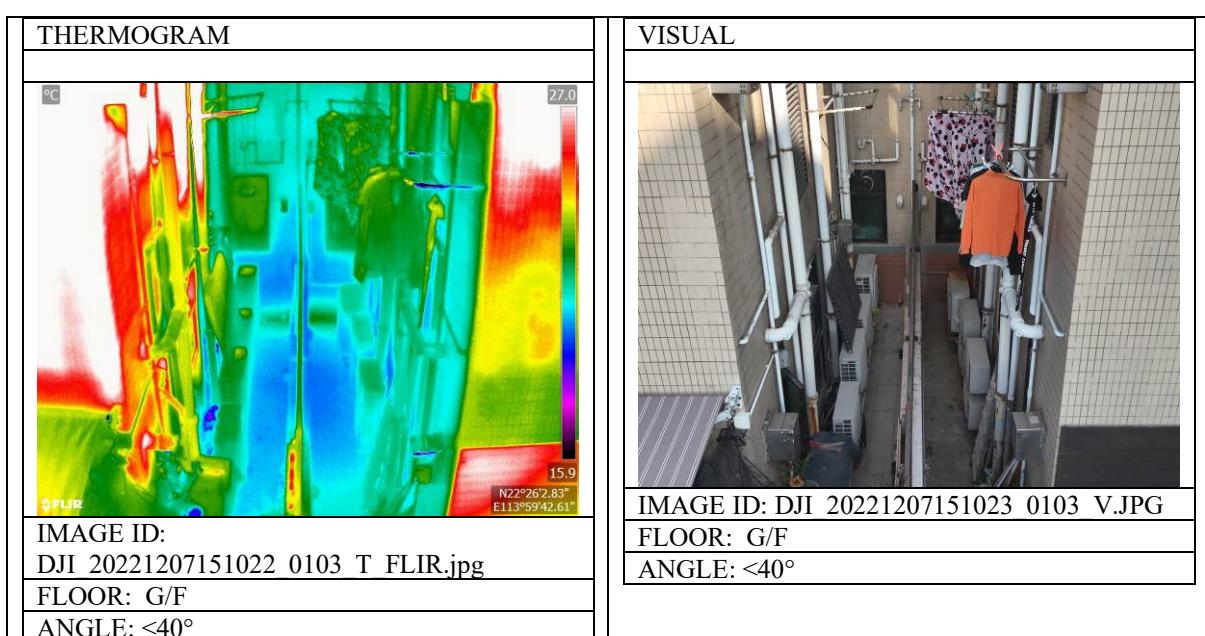
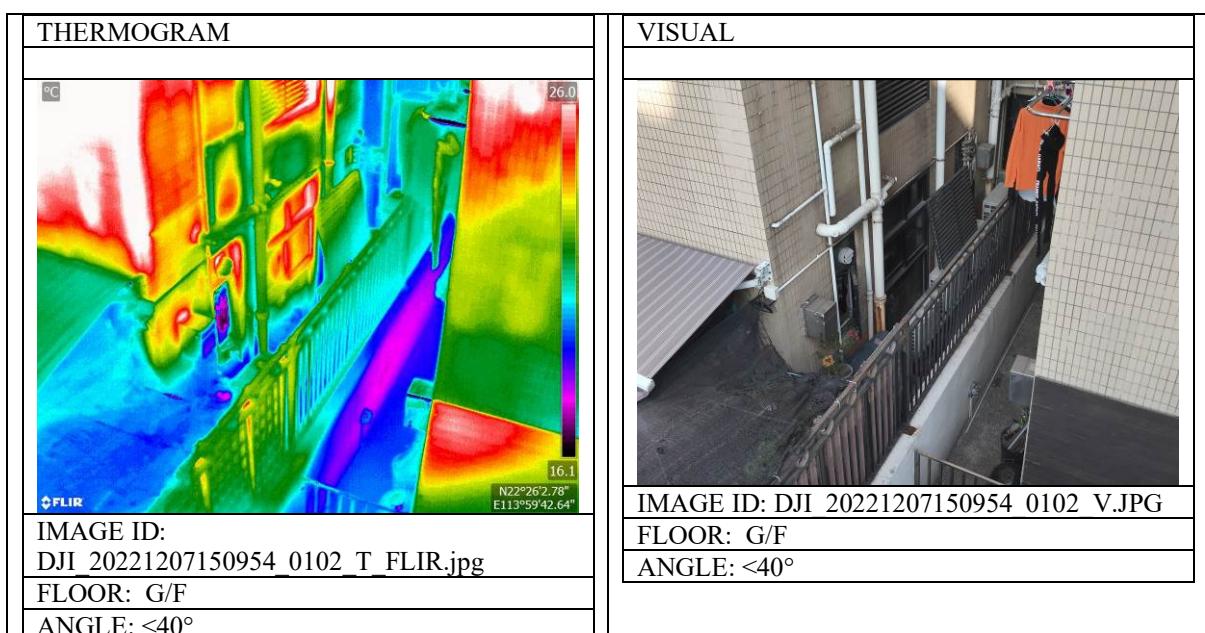
INSPECTED AREA	ELEVATION A
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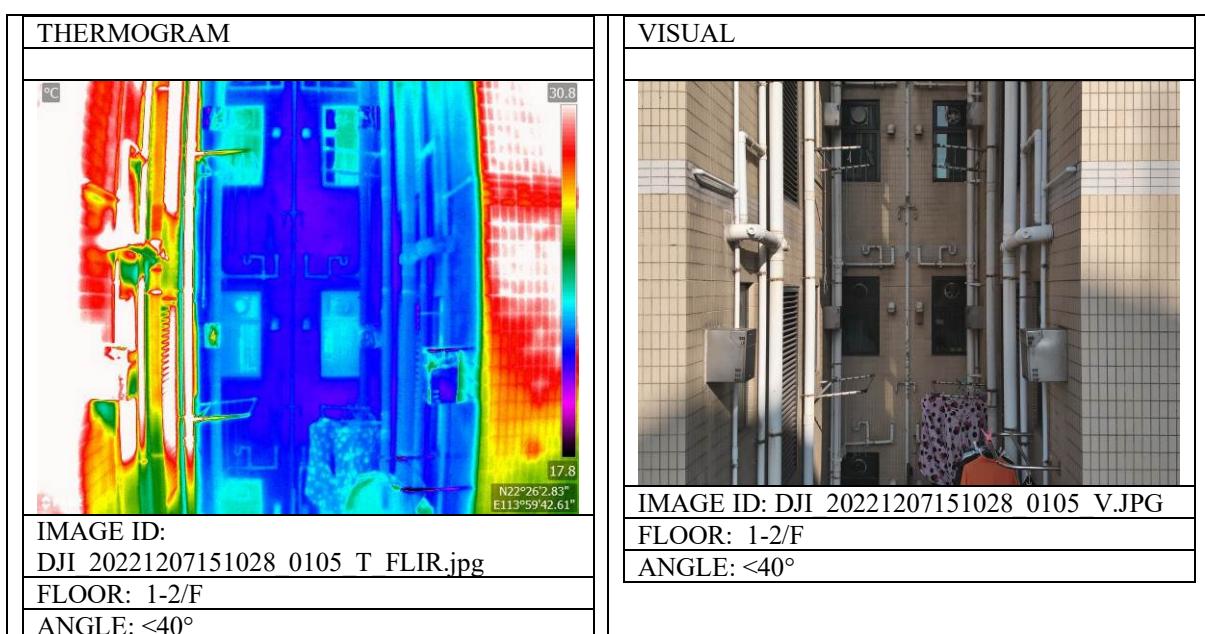
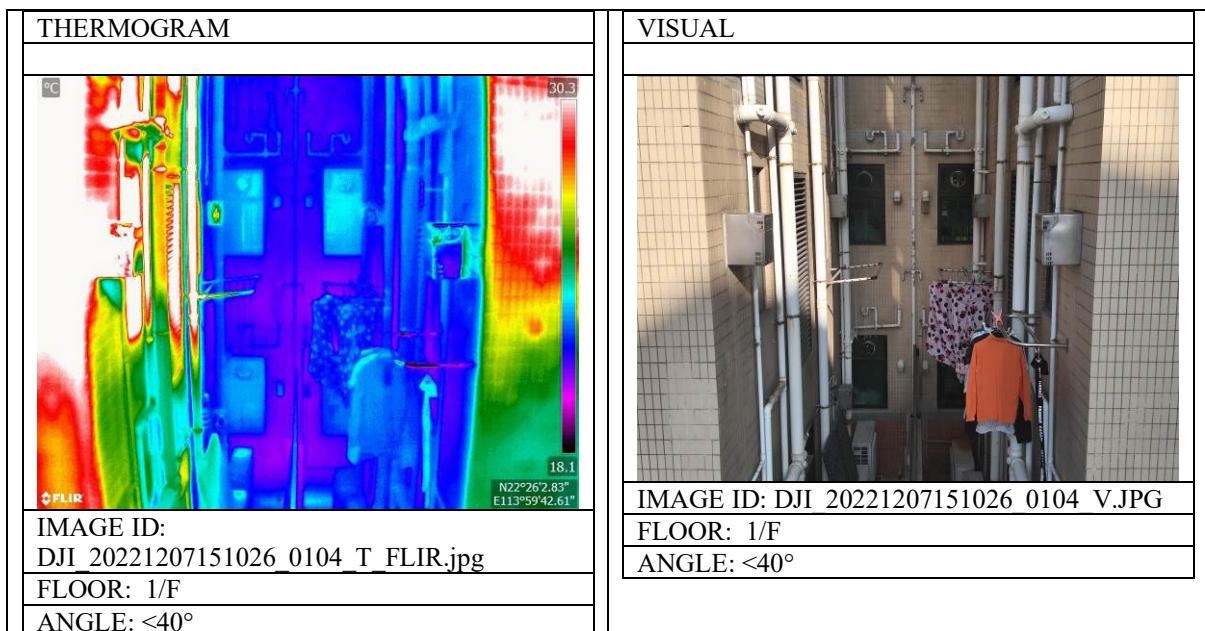
INSPECTED AREA	ELEVATION A
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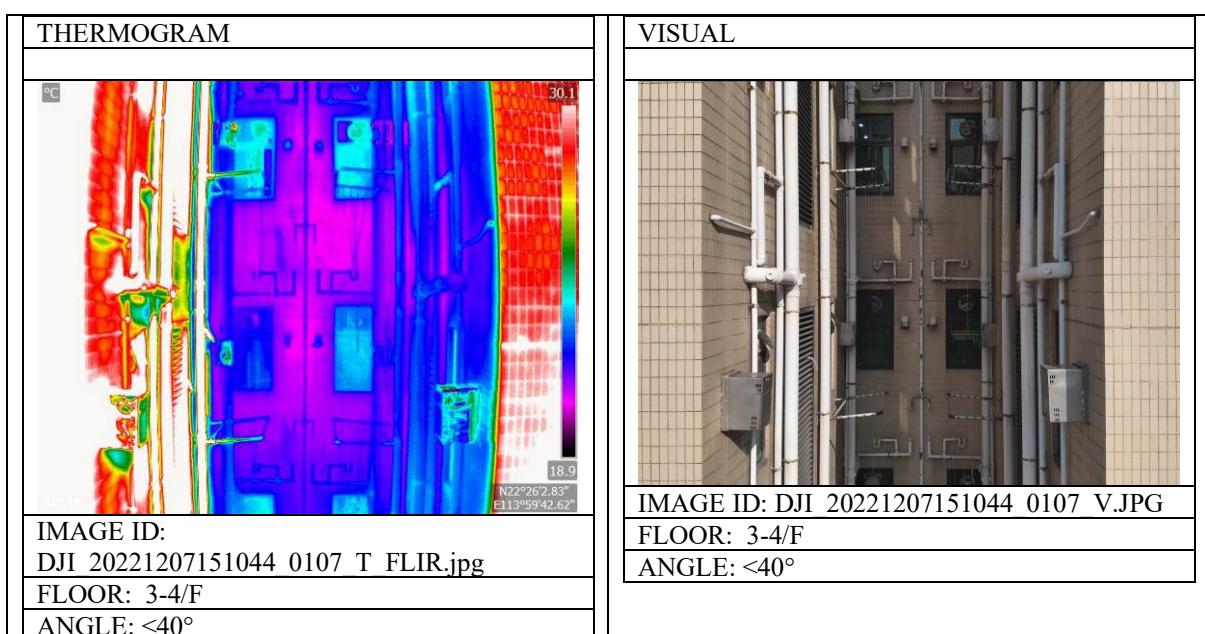
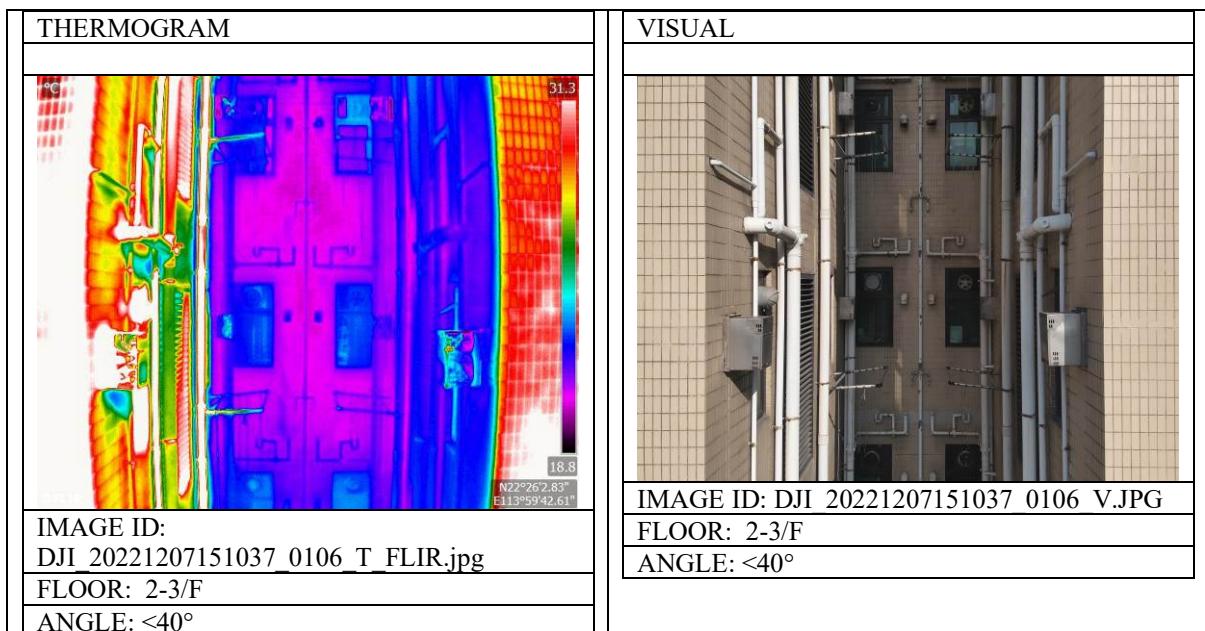
INSPECTED AREA	ELEVATION A
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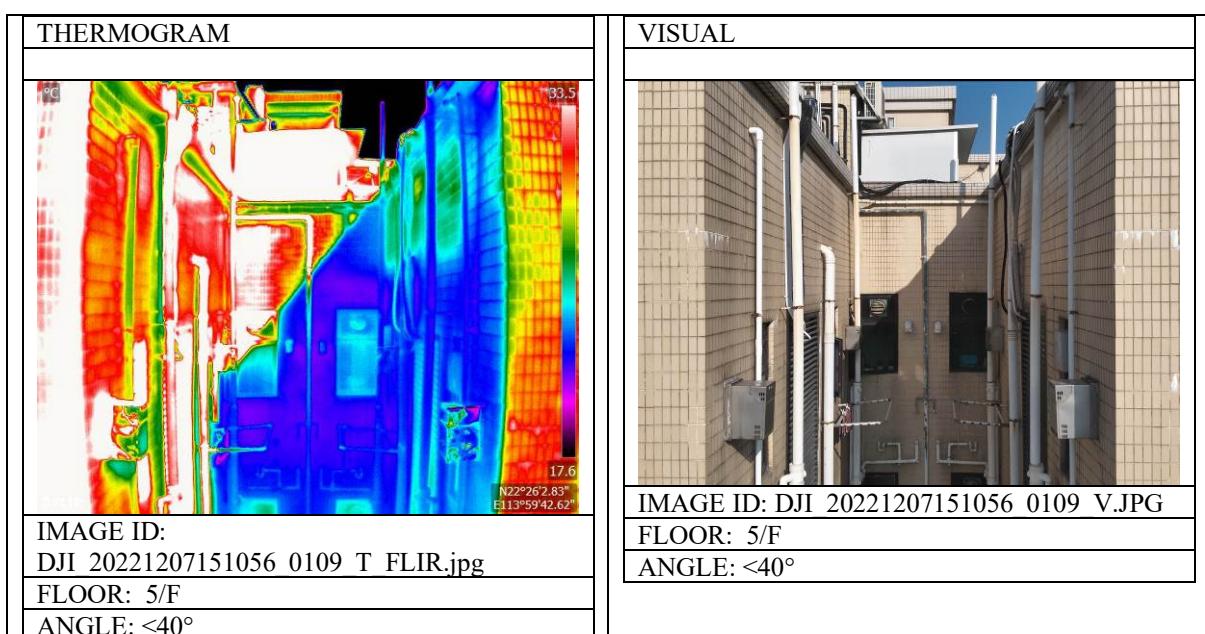
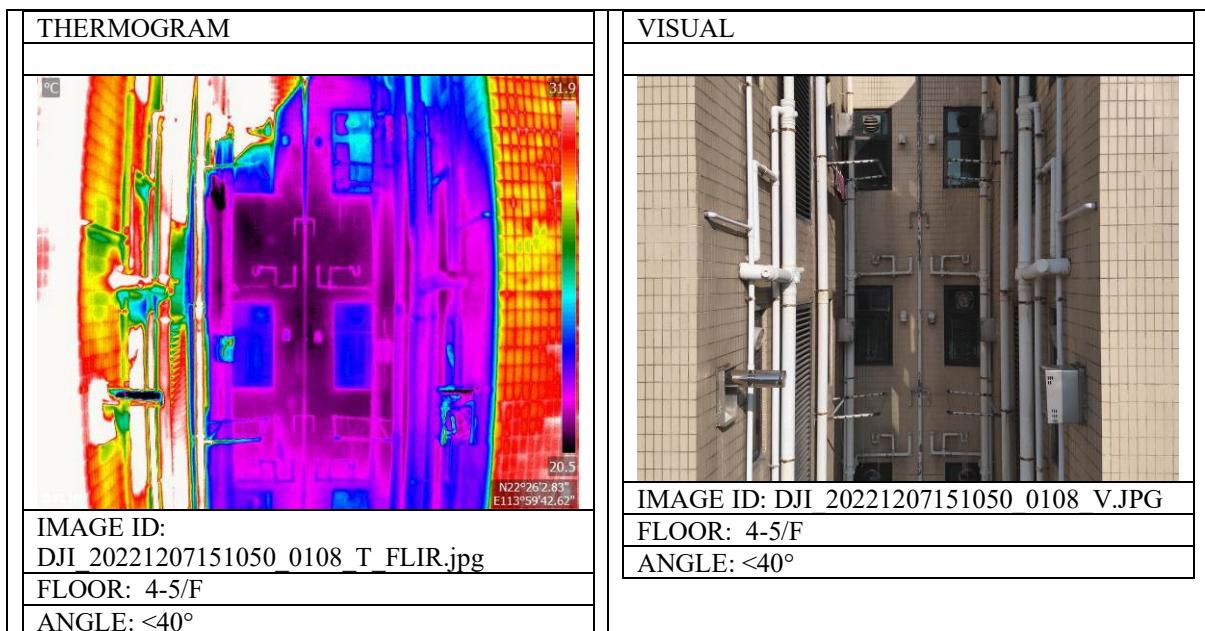
INSPECTED AREA	ELEVATION A
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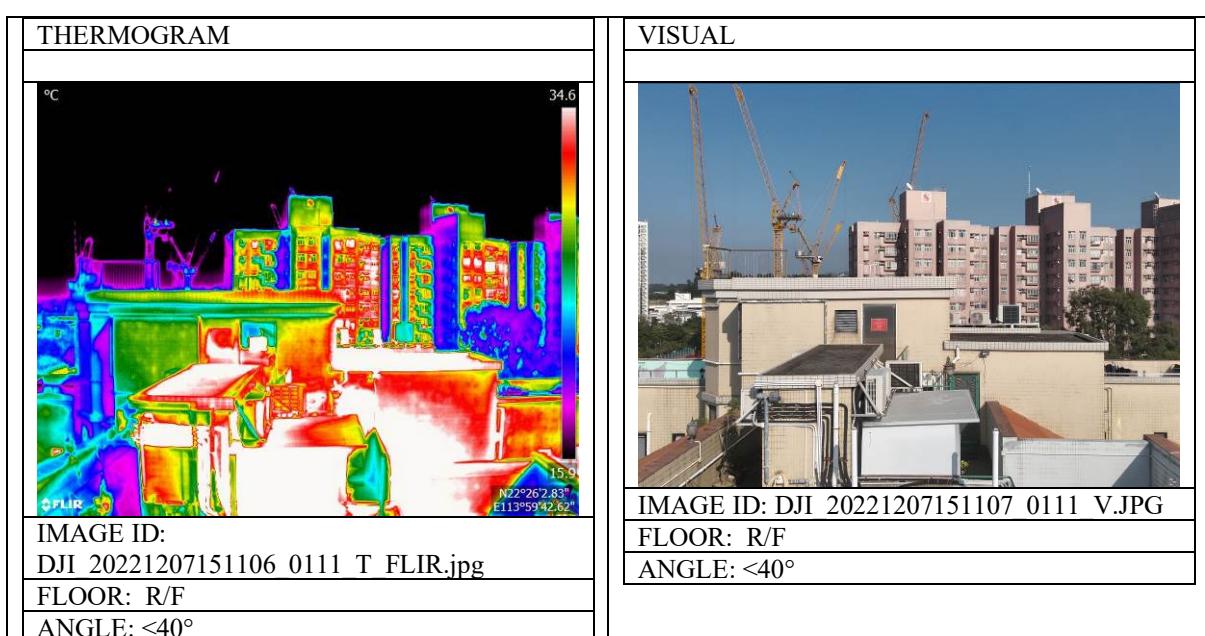
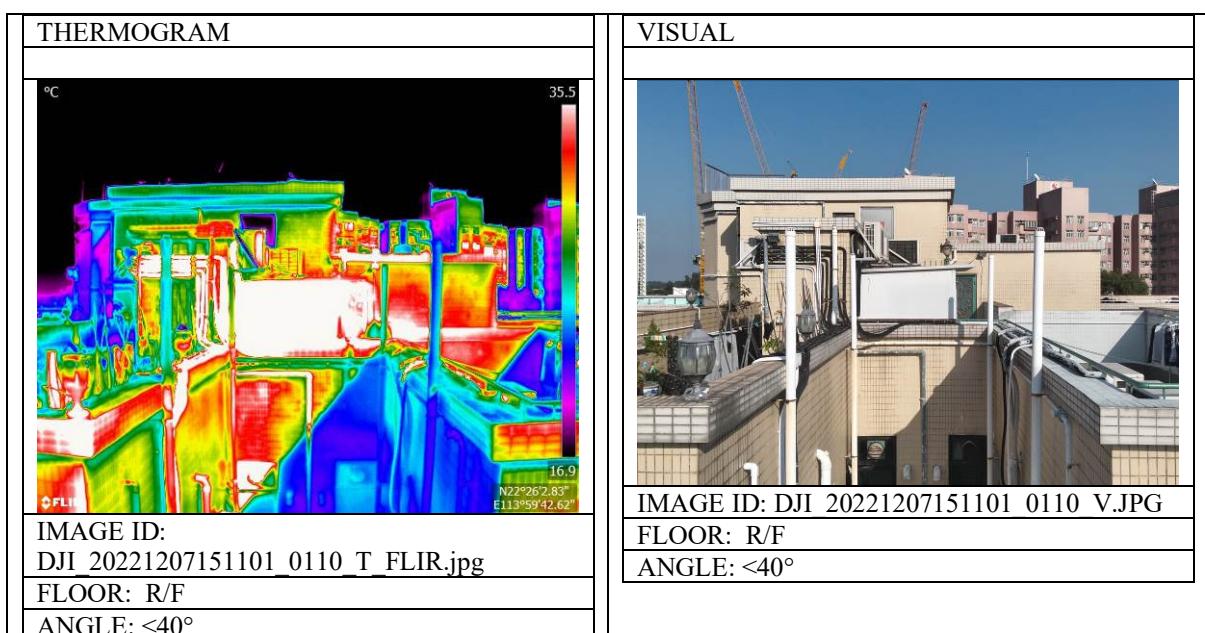
INSPECTED AREA	ELEVATION A
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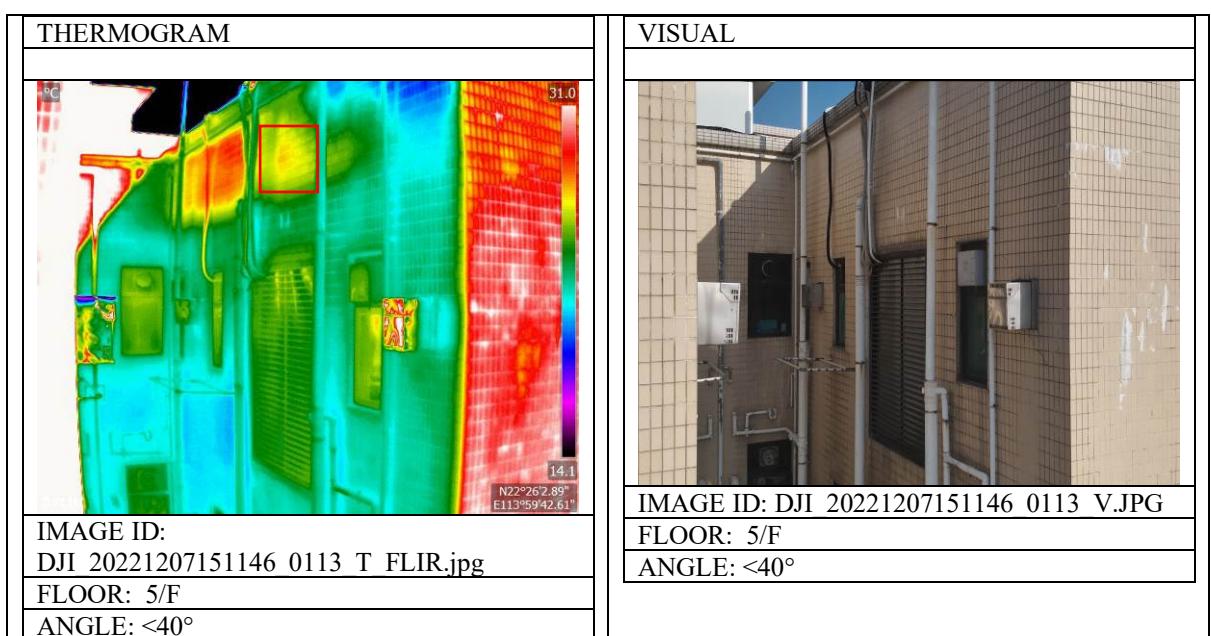
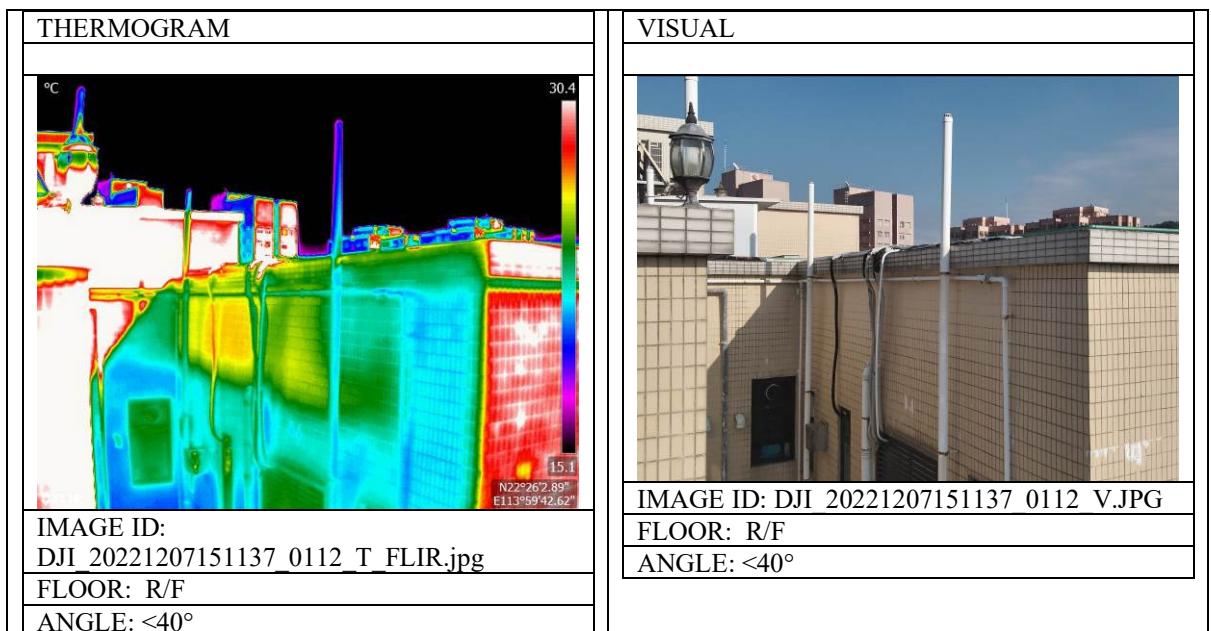
INSPECTED AREA	ELEVATION A
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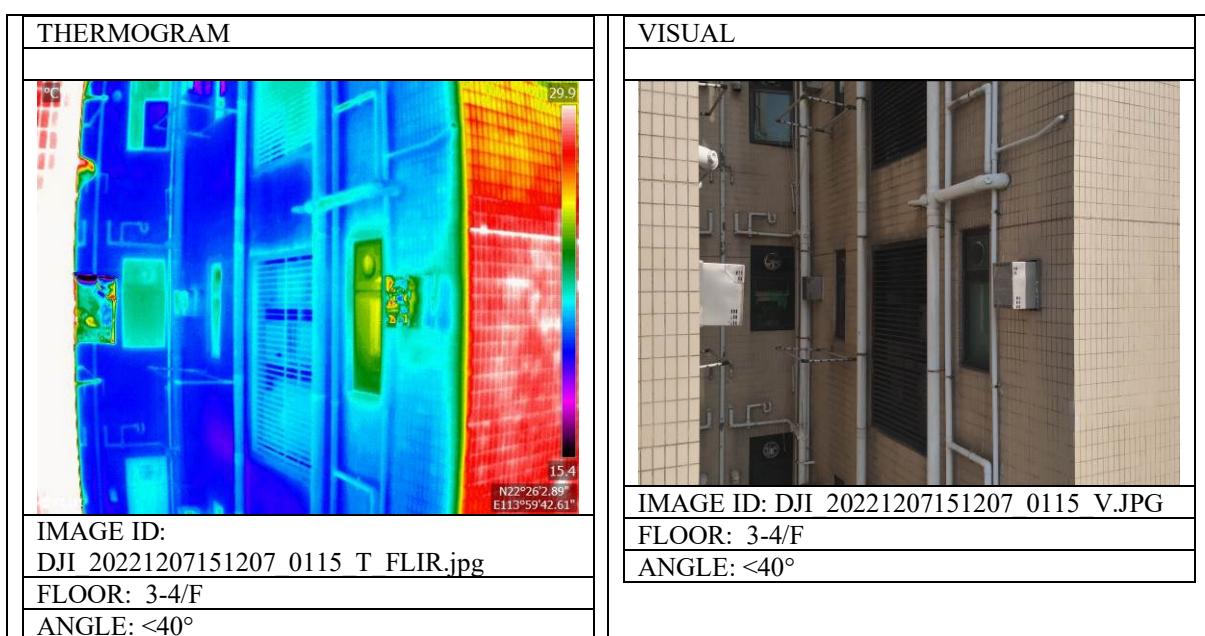
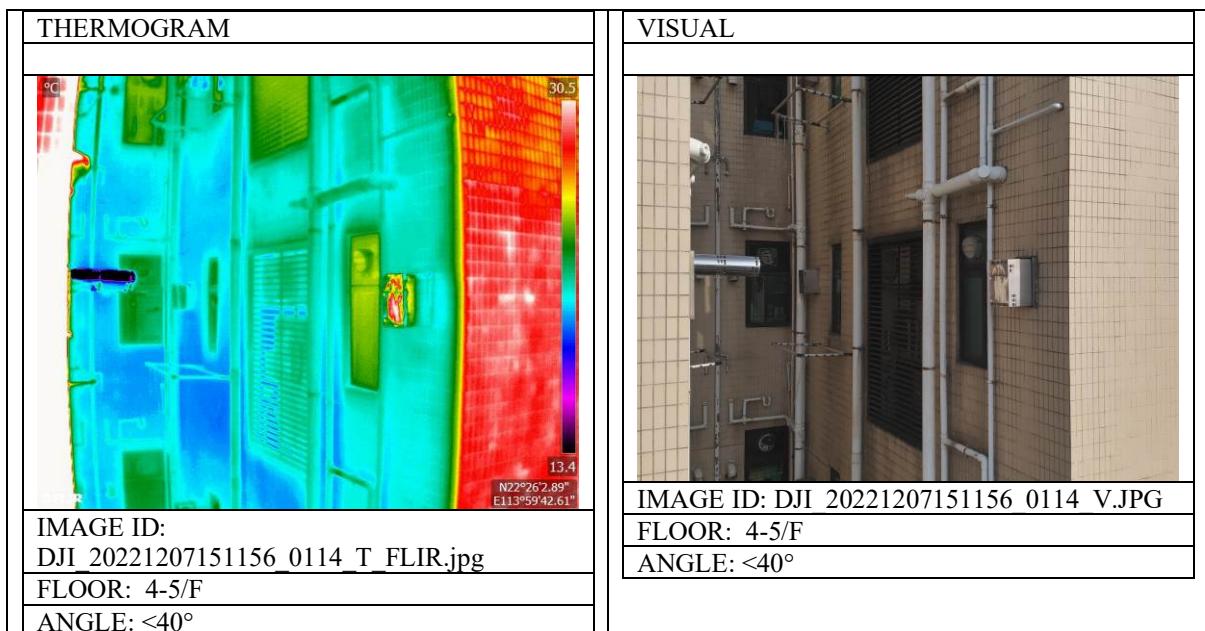
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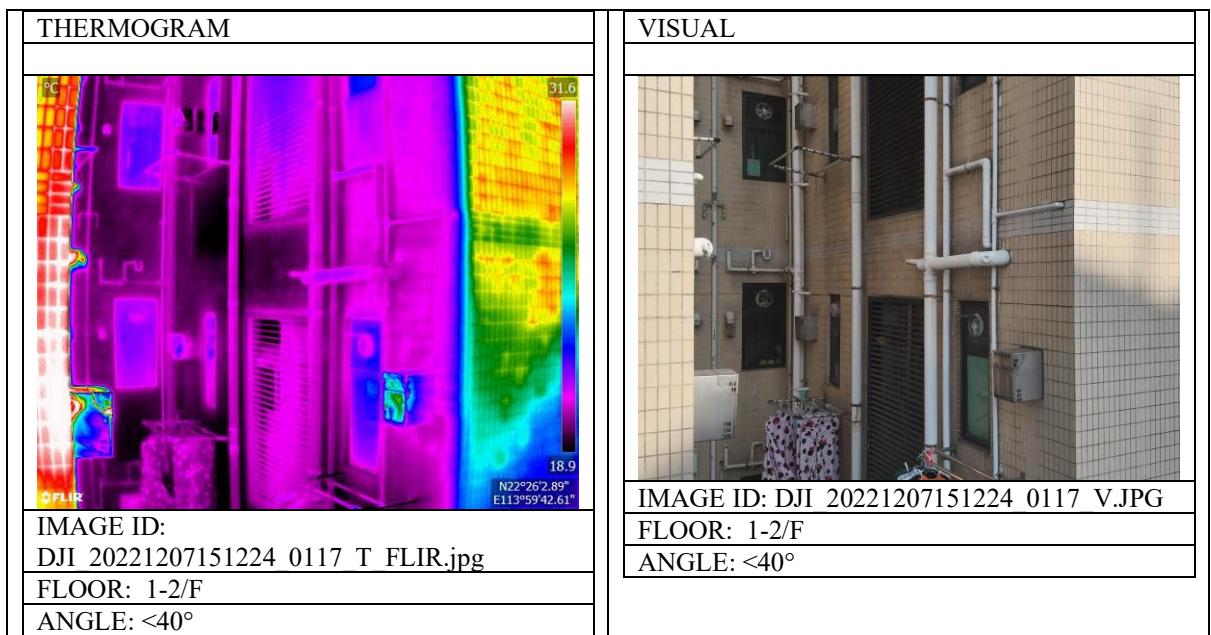
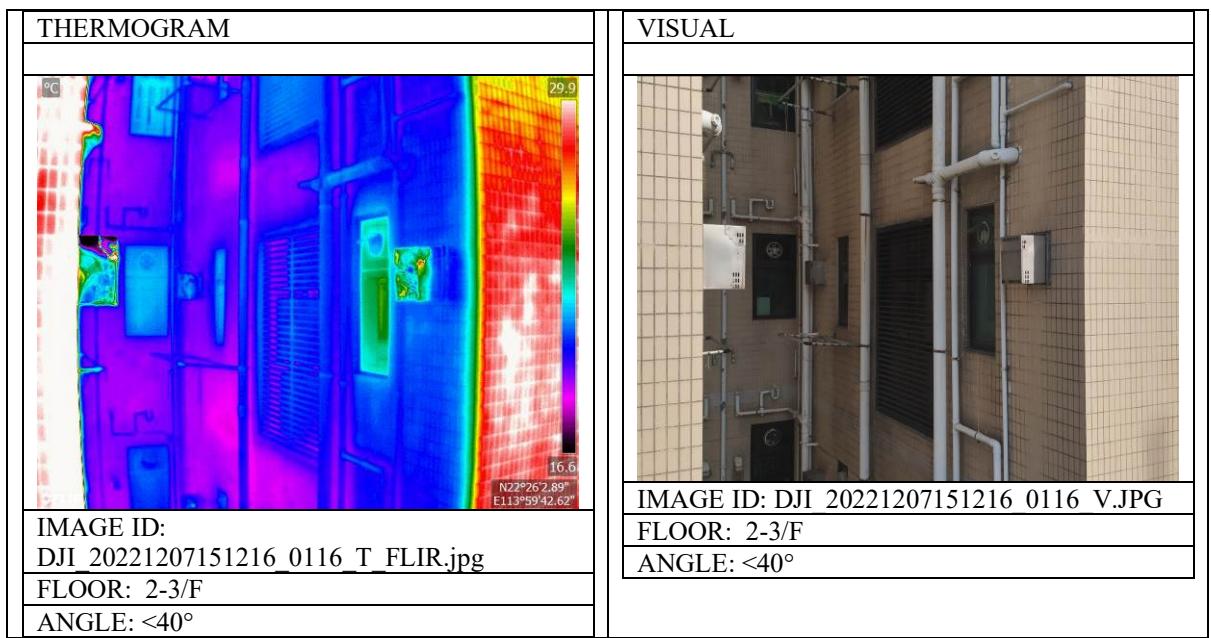
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INSPECTED AREA	ELEVATION A
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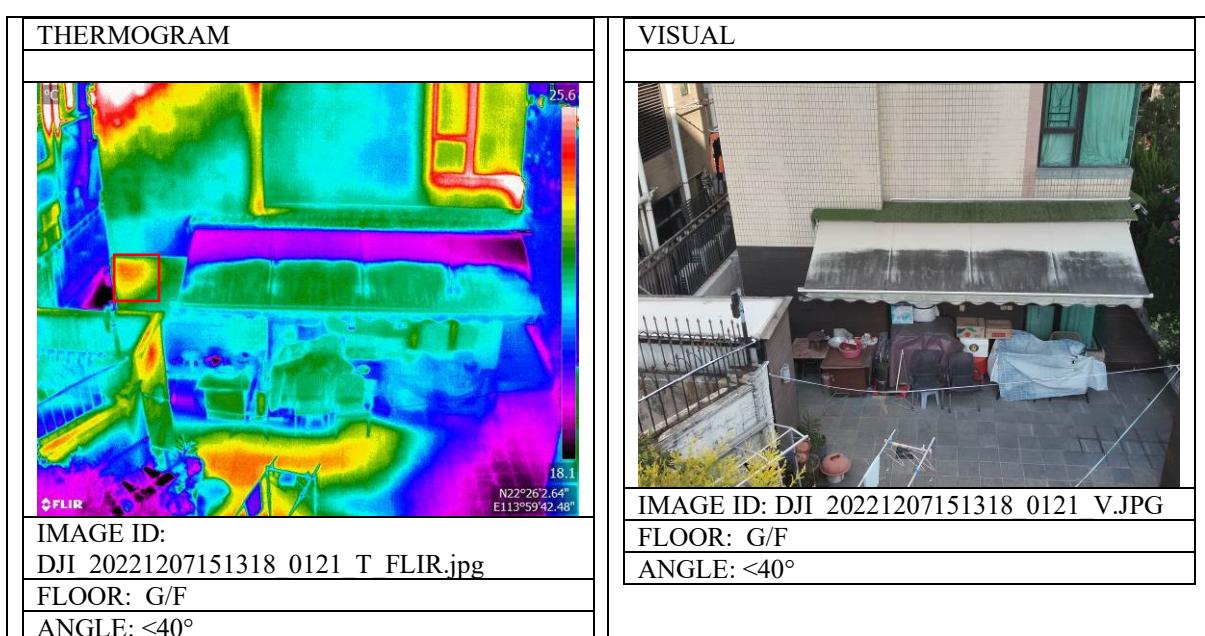
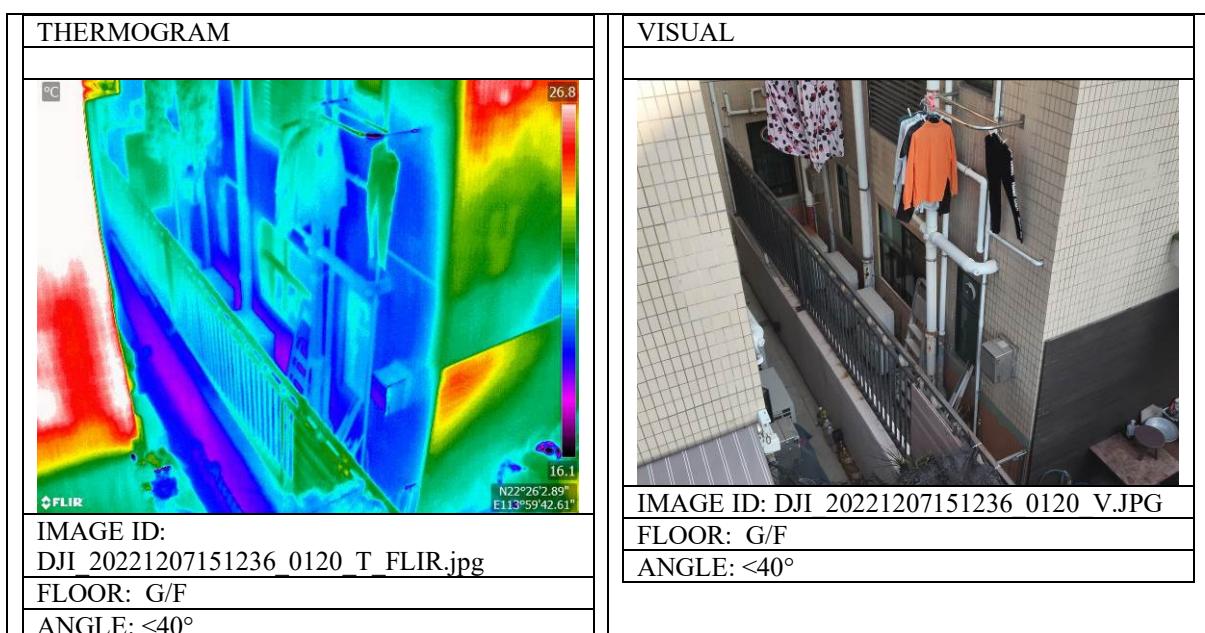
INSPECTED AREA	ELEVATION A
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INSPECTED AREA	ELEVATION A
THERMOGRAM	VISUAL
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FLOOR: 1/F	FLOOR: 1/F
ANGLE: <40°	ANGLE: <40°

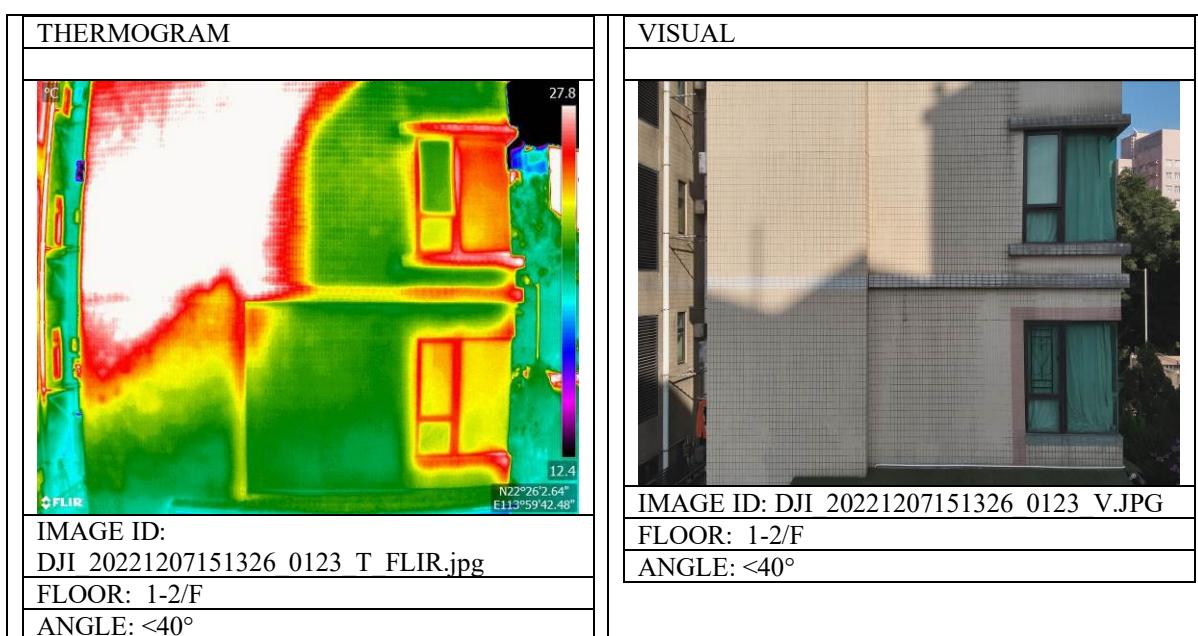
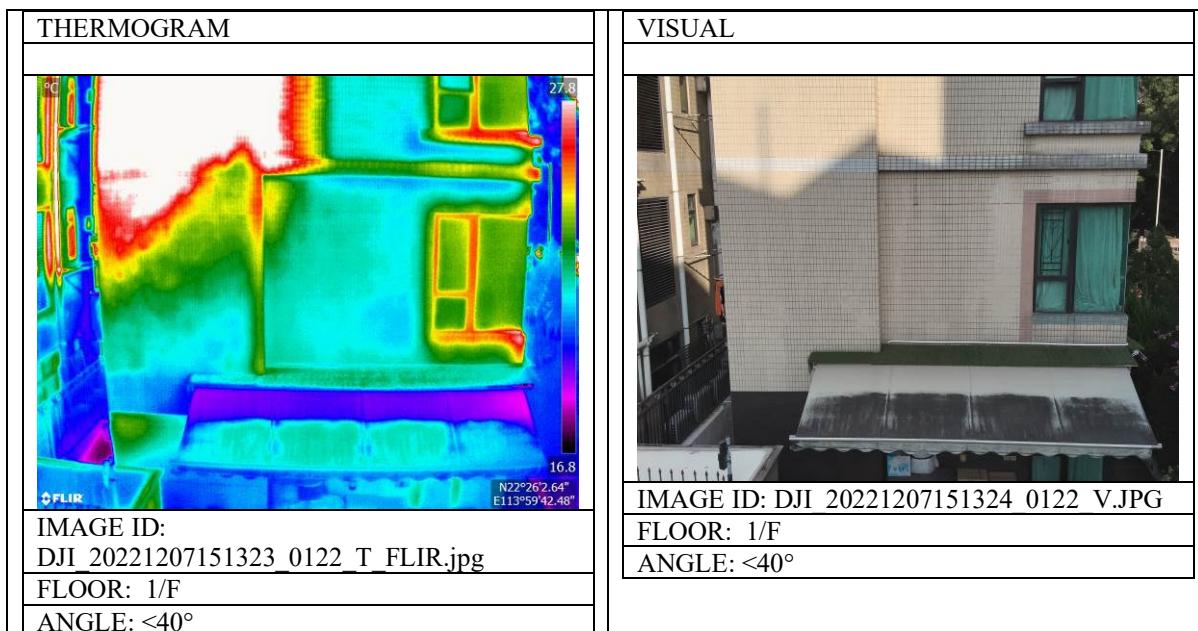
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ANGLE: <40°	ANGLE: <40°

INSPECTED AREA	ELEVATION A
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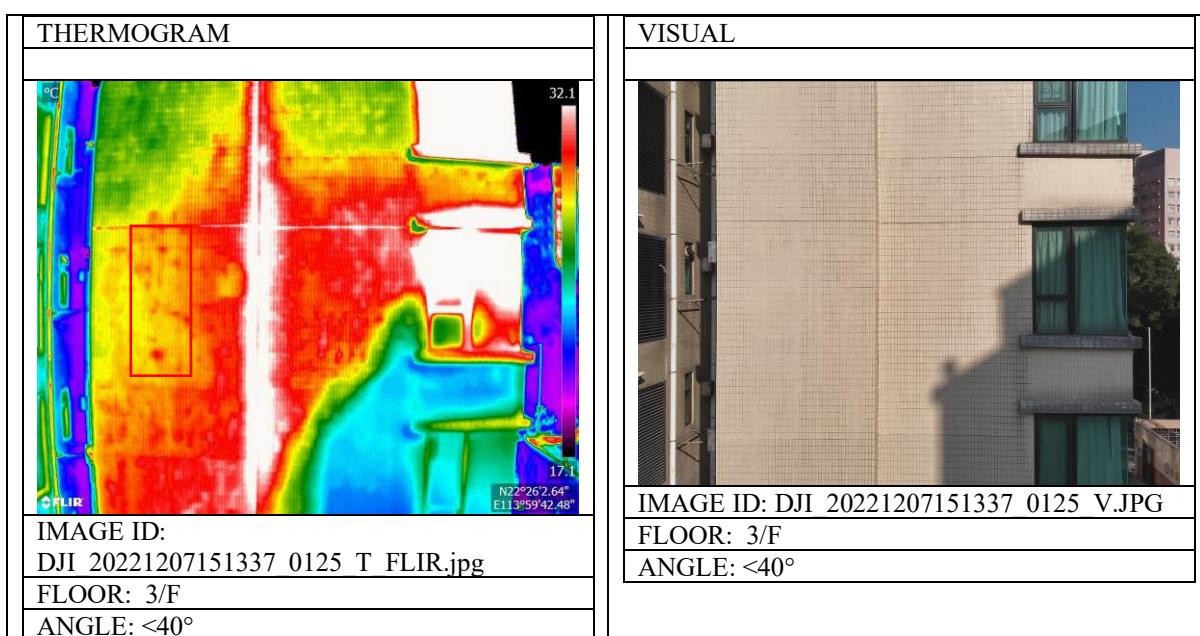
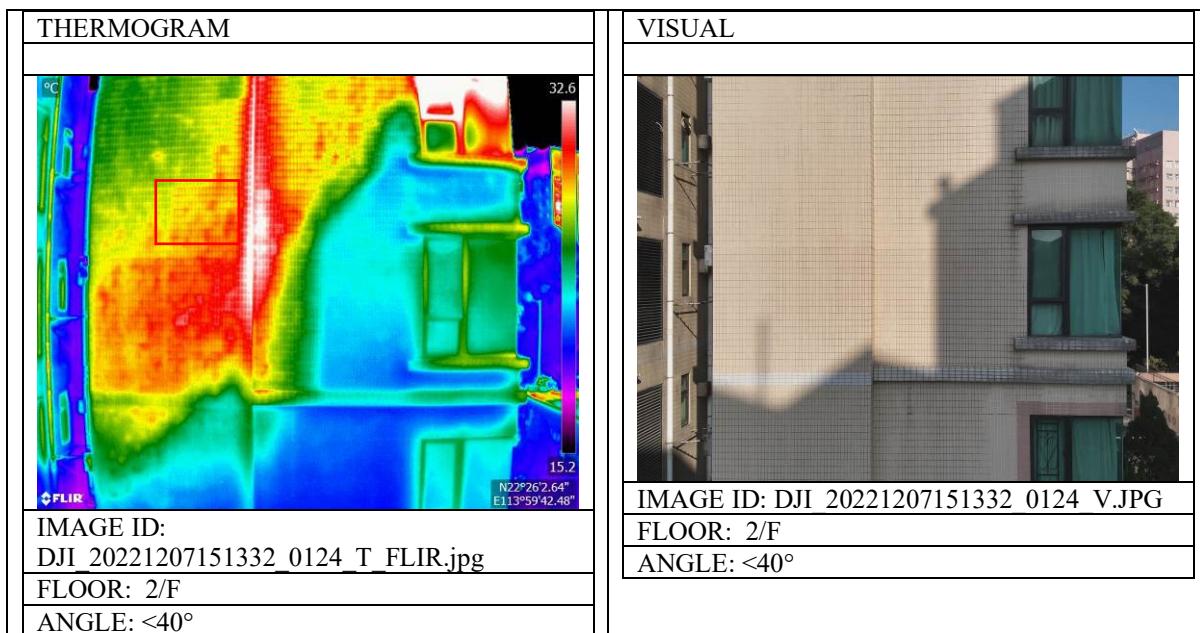
INSPECTED AREA

ELEVATION A



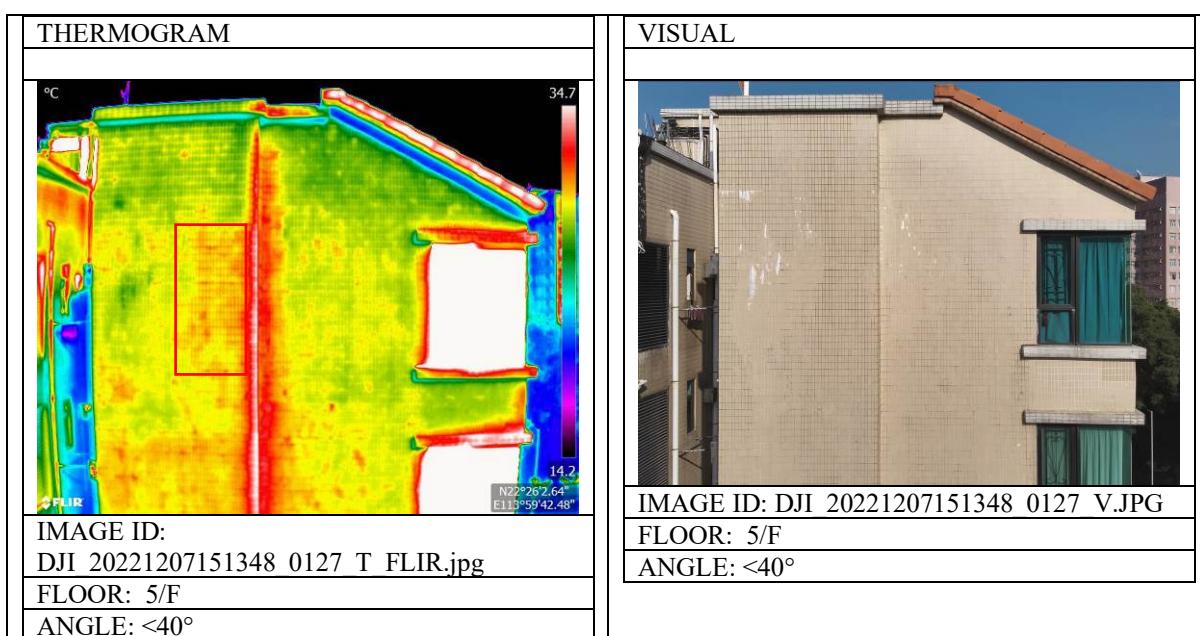
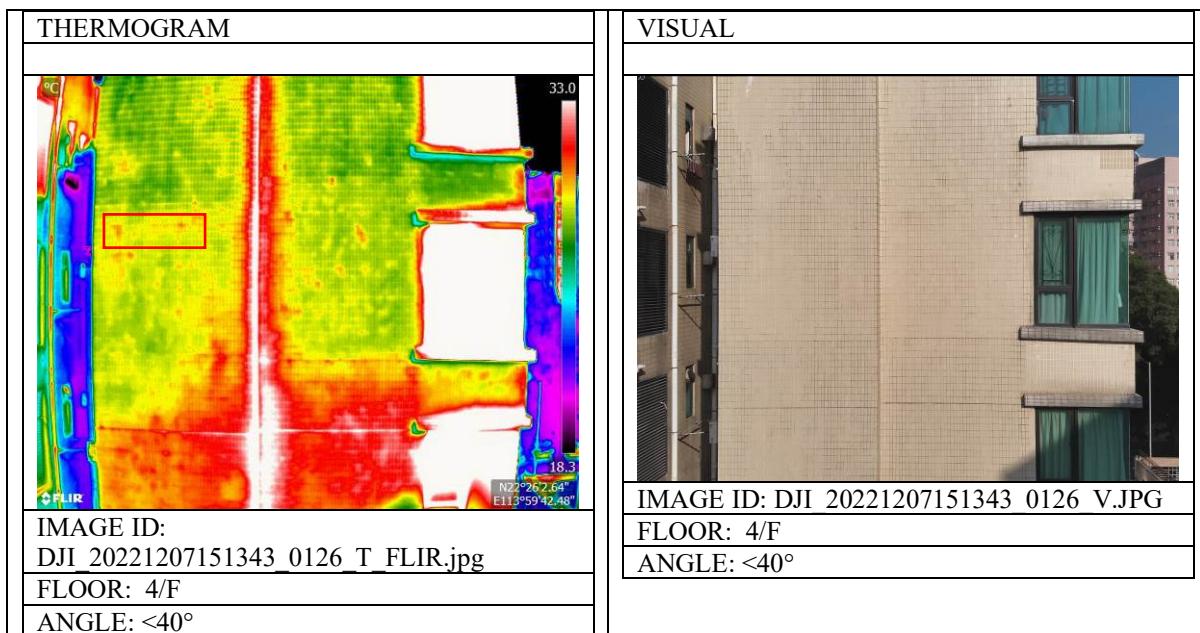
INSPECTED AREA

ELEVATION A



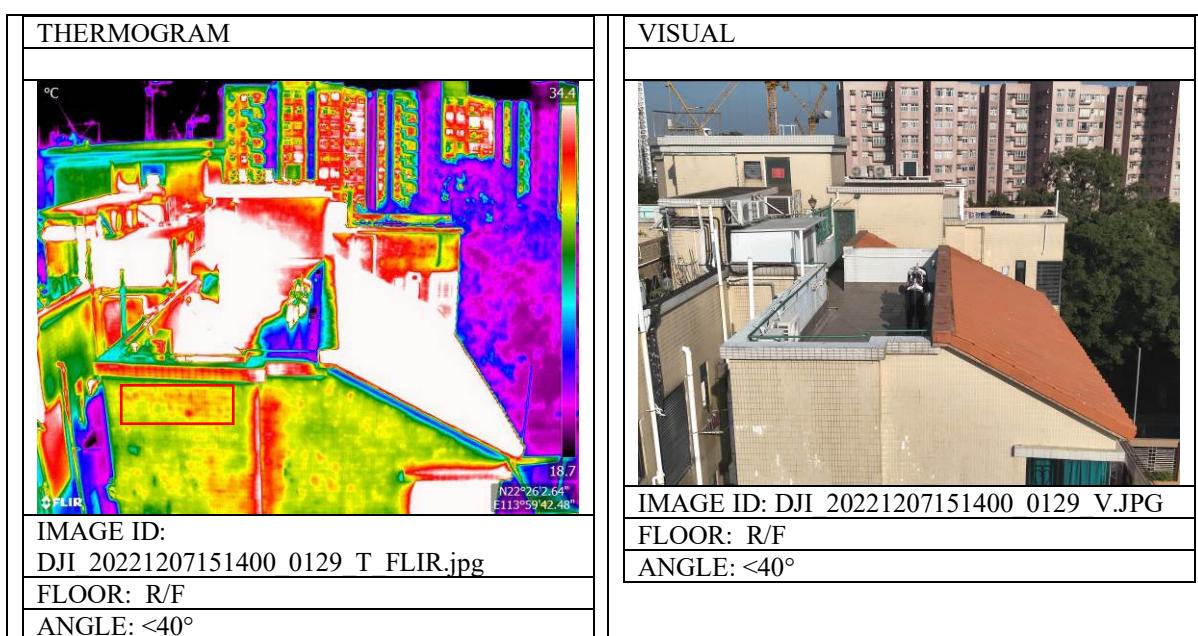
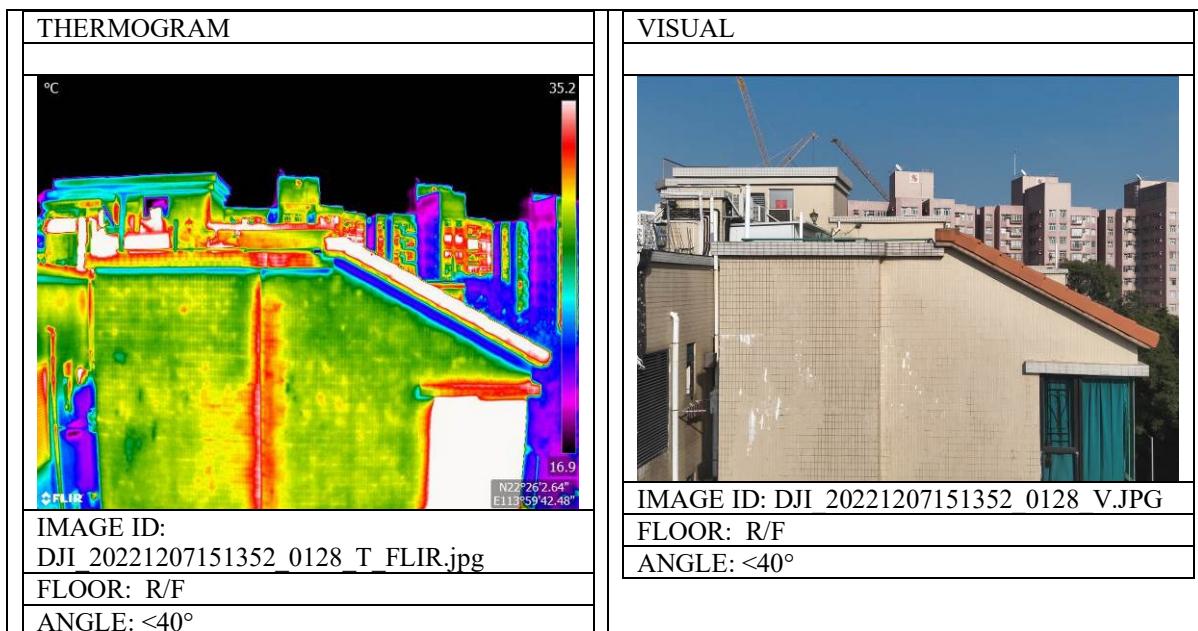
INSPECTED AREA

ELEVATION A



INSPECTED AREA

ELEVATION A



INSPECTED AREA

B

THERMOGRAM	VISUAL
IMAGE ID: DJI_20221207151504_0130_T_FLIR.jpg	IMAGE ID: DJI_20221207151504_0130_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
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FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA

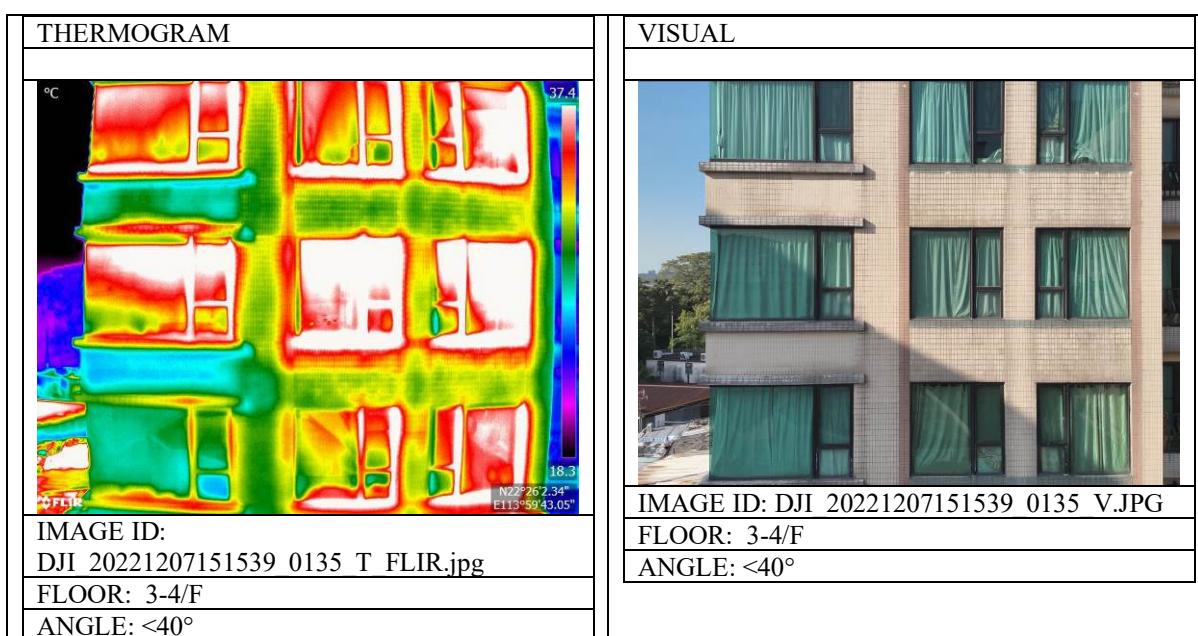
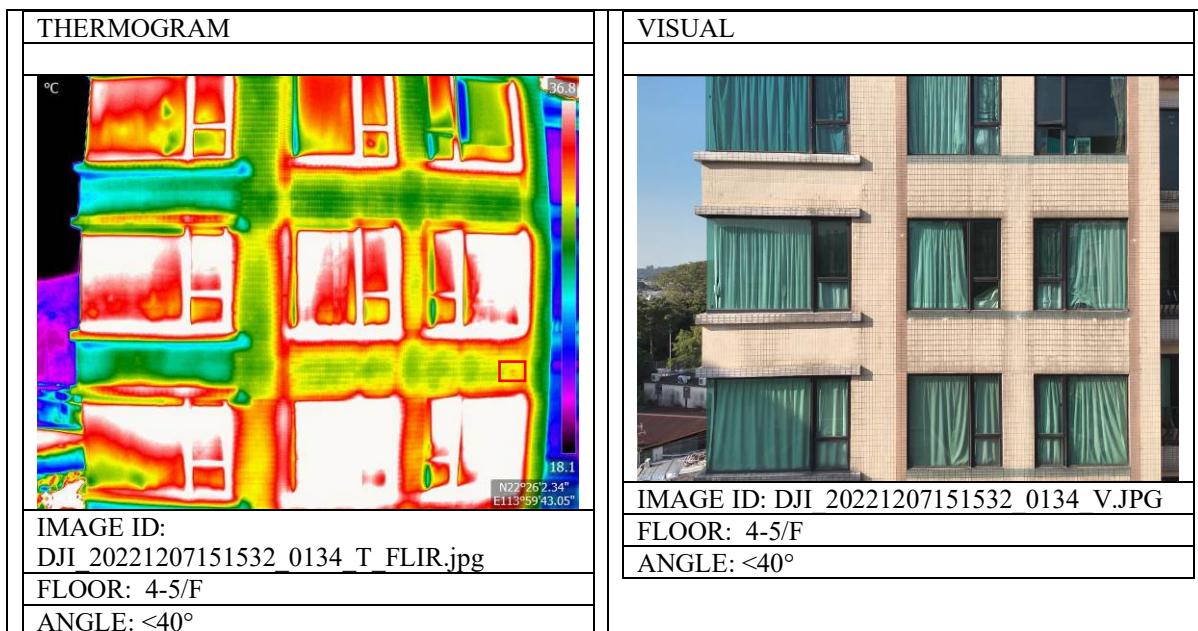
ELEVATION B

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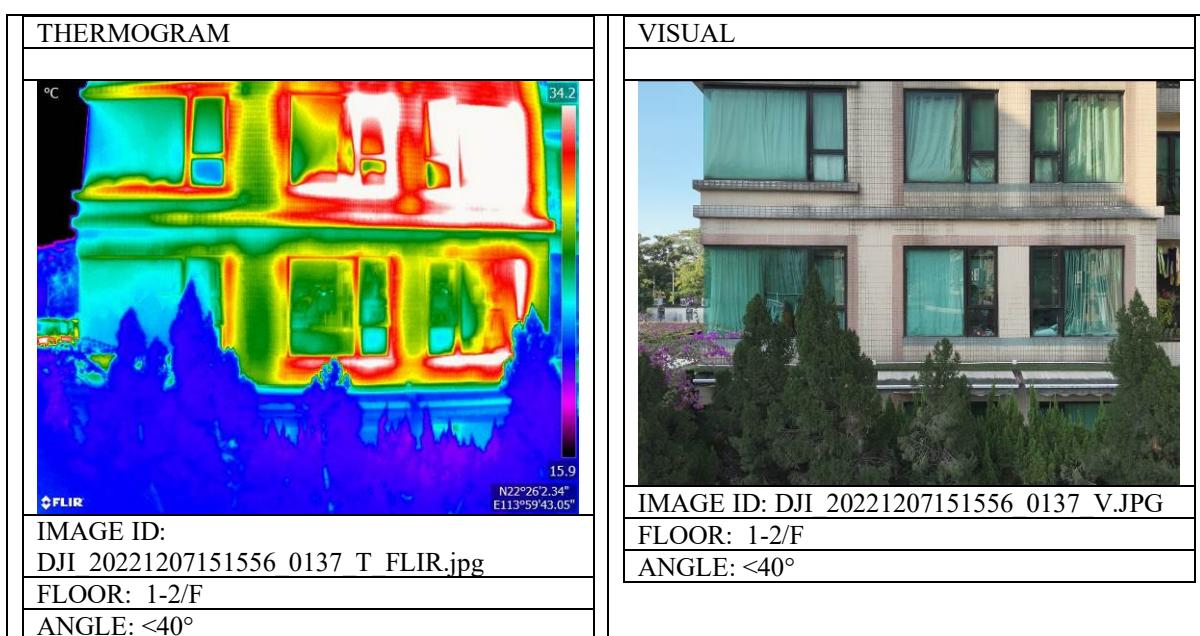
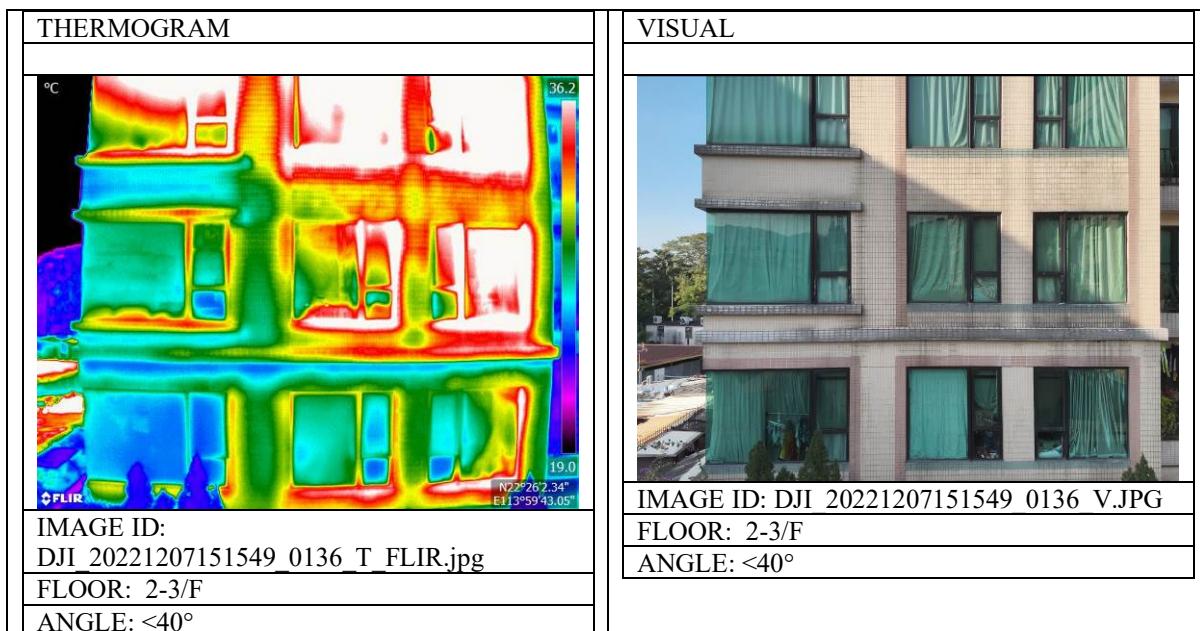
INSPECTED AREA

ELEVATION B



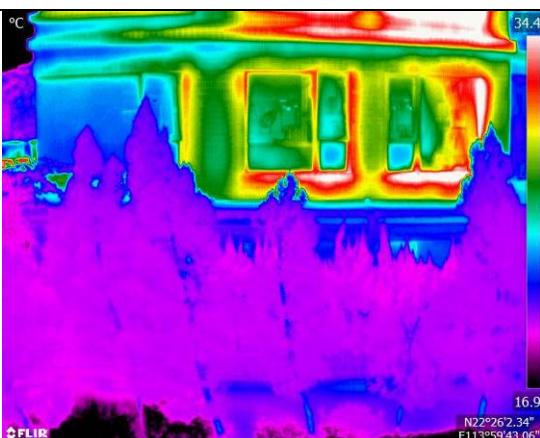
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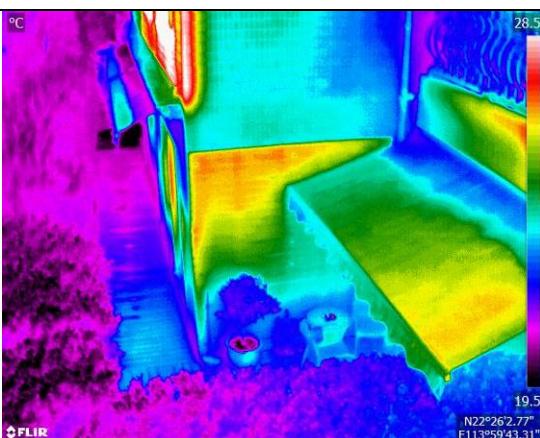
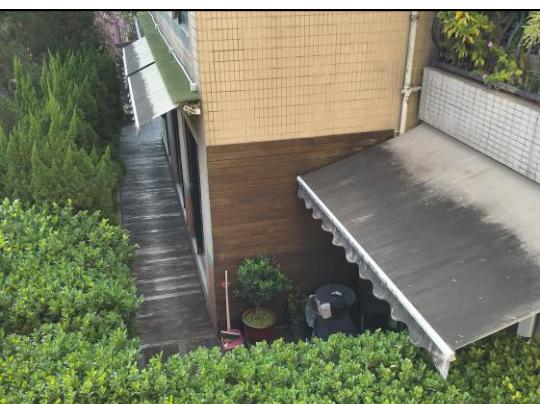
ELEVATION B



INSPECTED AREA

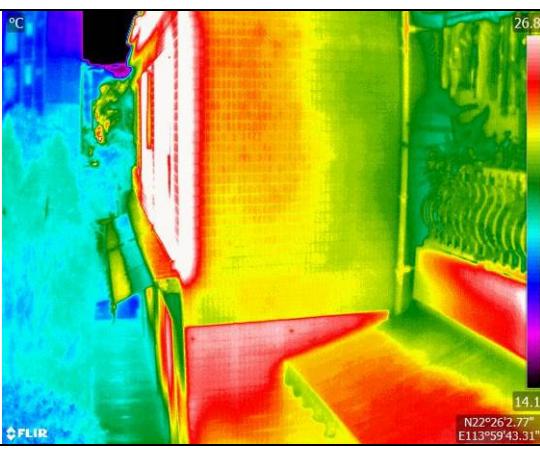
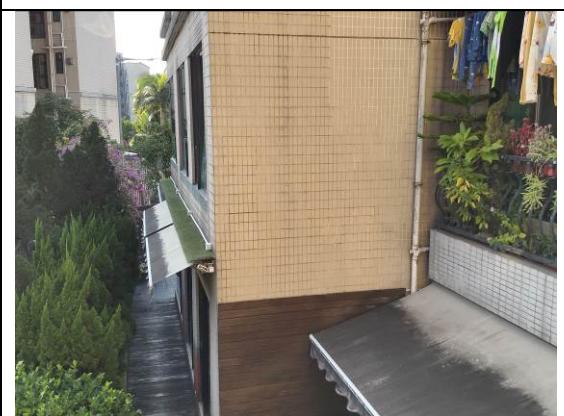
ELEVATION B

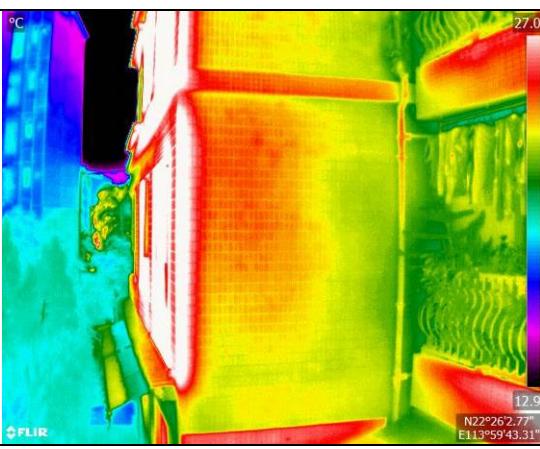
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151600_0138_T_FLIR.jpg	IMAGE ID: DJI_20221207151600_0138_V.JPG
FLOOR: G-1/F	FLOOR: G-1/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151715_0139_T_FLIR.jpg	IMAGE ID: DJI_20221207151715_0139_V.JPG
FLOOR: G-1/F	FLOOR: G-1/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA

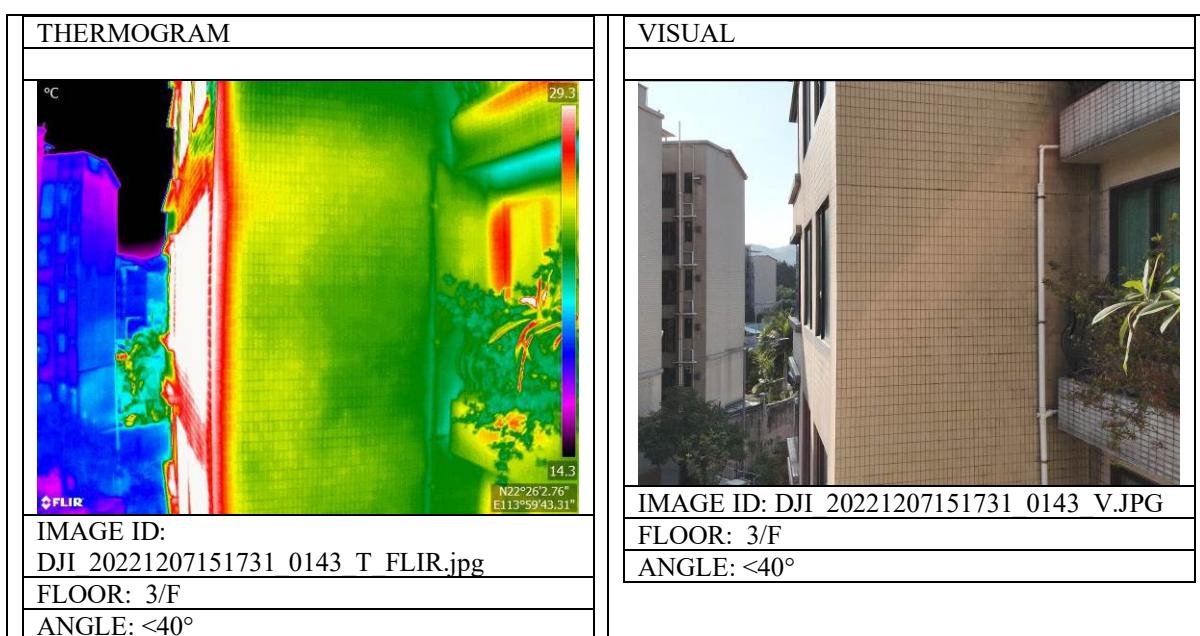
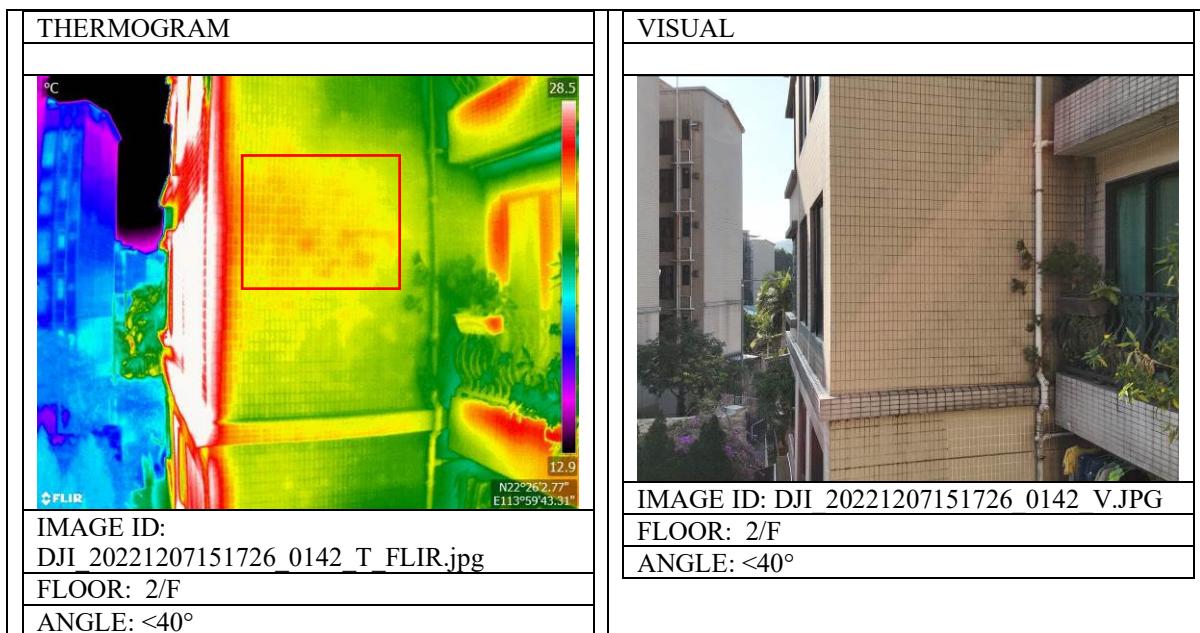
ELEVATION B

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151718_0140_T_FLIR.jpg	IMAGE ID: DJI_20221207151718_0140_V.JPG
FLOOR: 1/F	FLOOR: 1/F
ANGLE: <40°	ANGLE: <40°

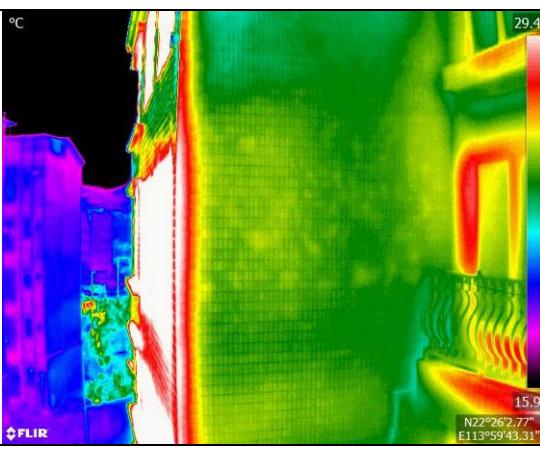
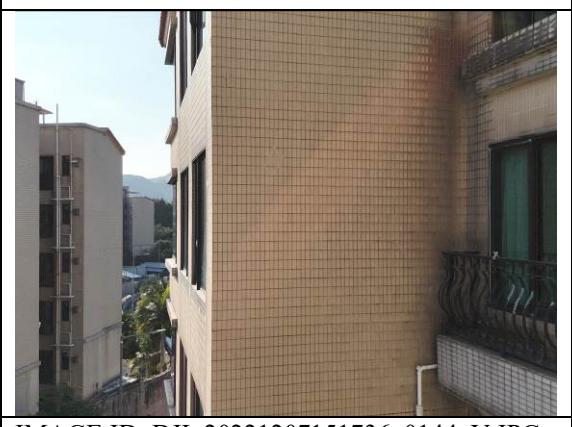
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151720_0141_T_FLIR.jpg	IMAGE ID: DJI_20221207151720_0141_V.JPG
FLOOR: 1/F	FLOOR: 1/F
ANGLE: <40°	ANGLE: <40°

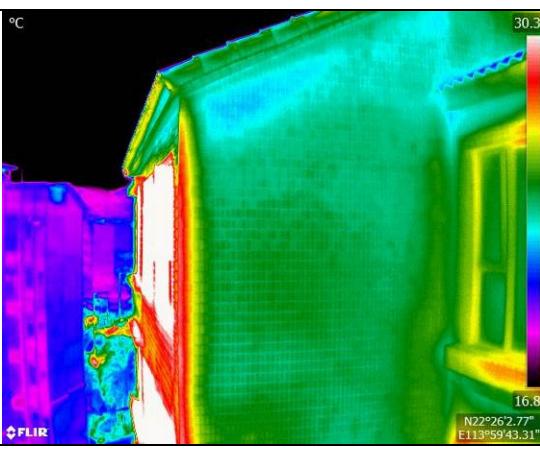
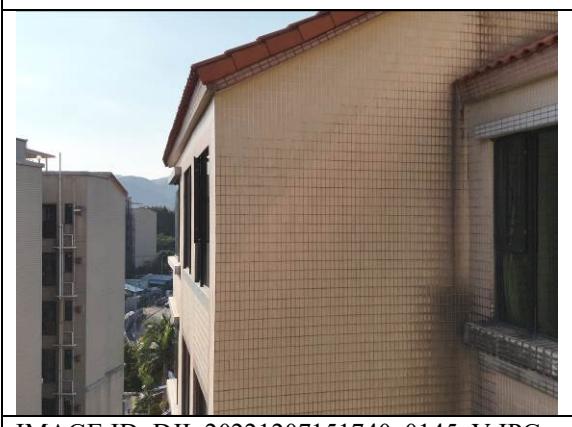
INSPECTED AREA

ELEVATION B



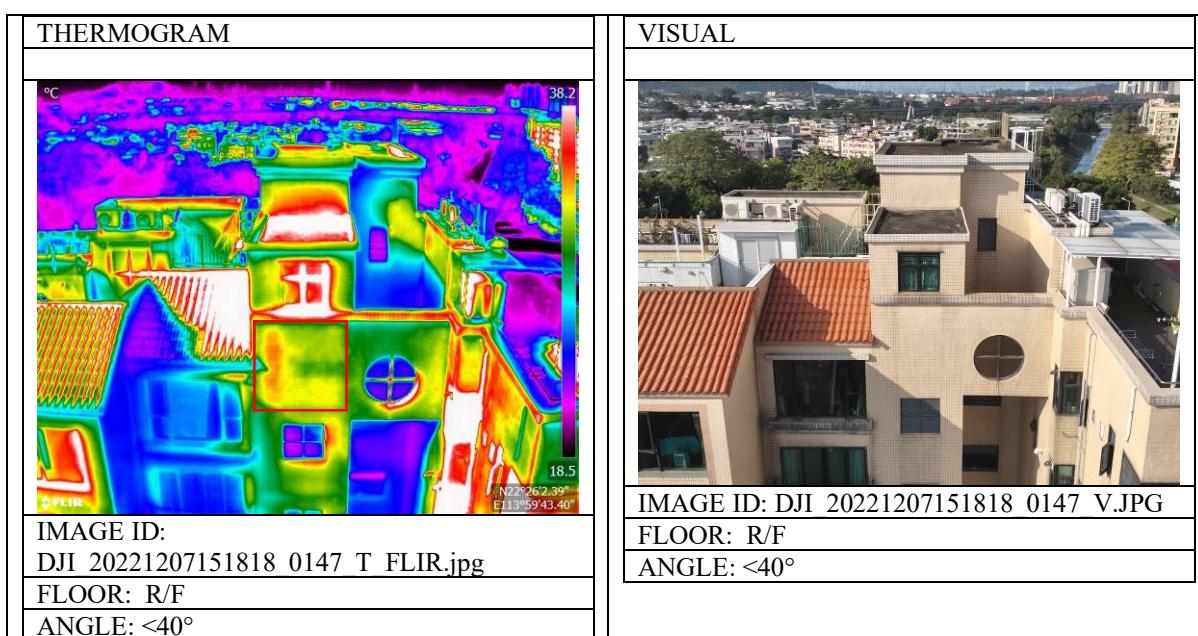
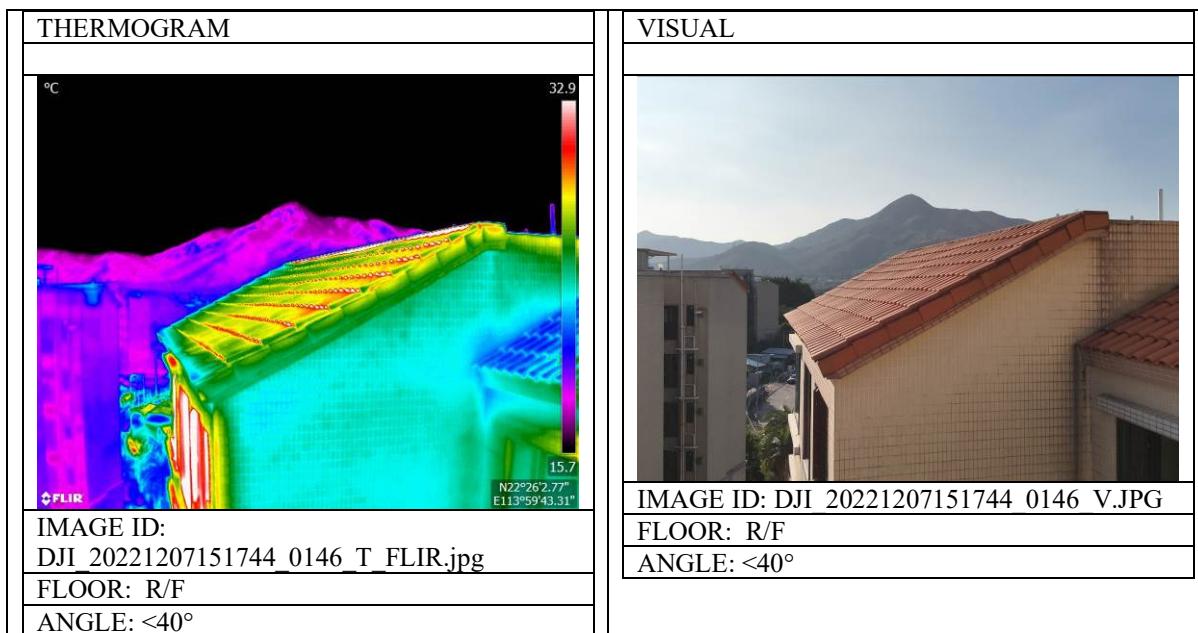
INSPECTED AREA	ELEVATION B
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THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151736_0144_T_FLIR.jpg	IMAGE ID: DJI_20221207151736_0144_V.JPG
FLOOR: 4/F	FLOOR: 4/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207151740_0145_T_FLIR.jpg	IMAGE ID: DJI_20221207151740_0145_V.JPG
FLOOR: 5/F	FLOOR: 5/F
ANGLE: <40°	ANGLE: <40°

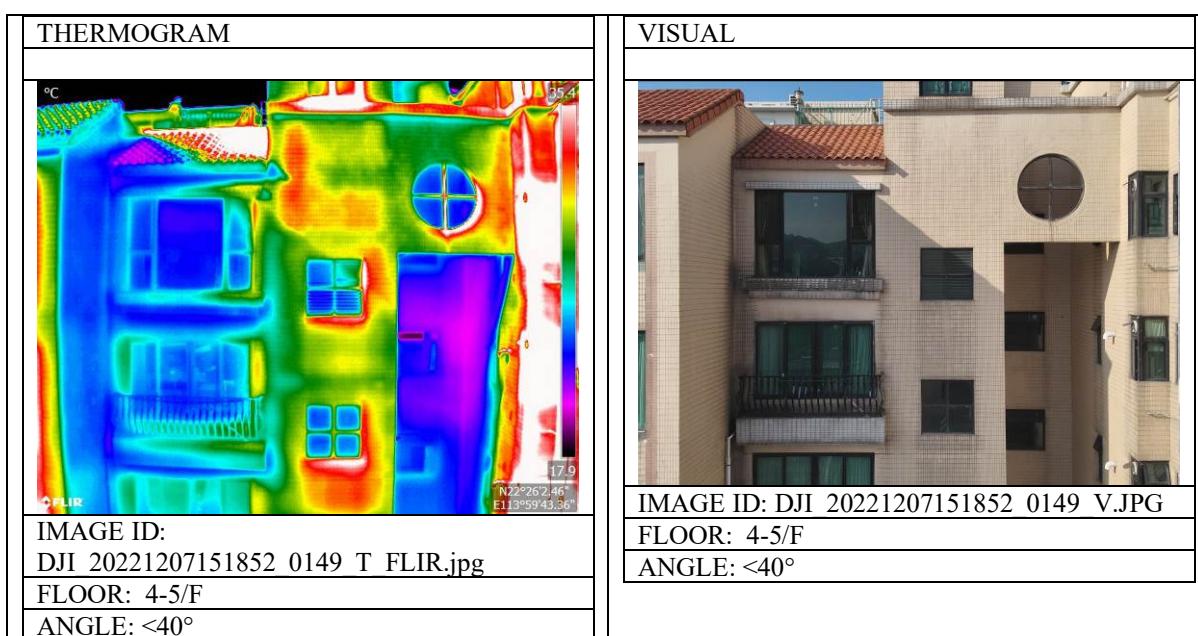
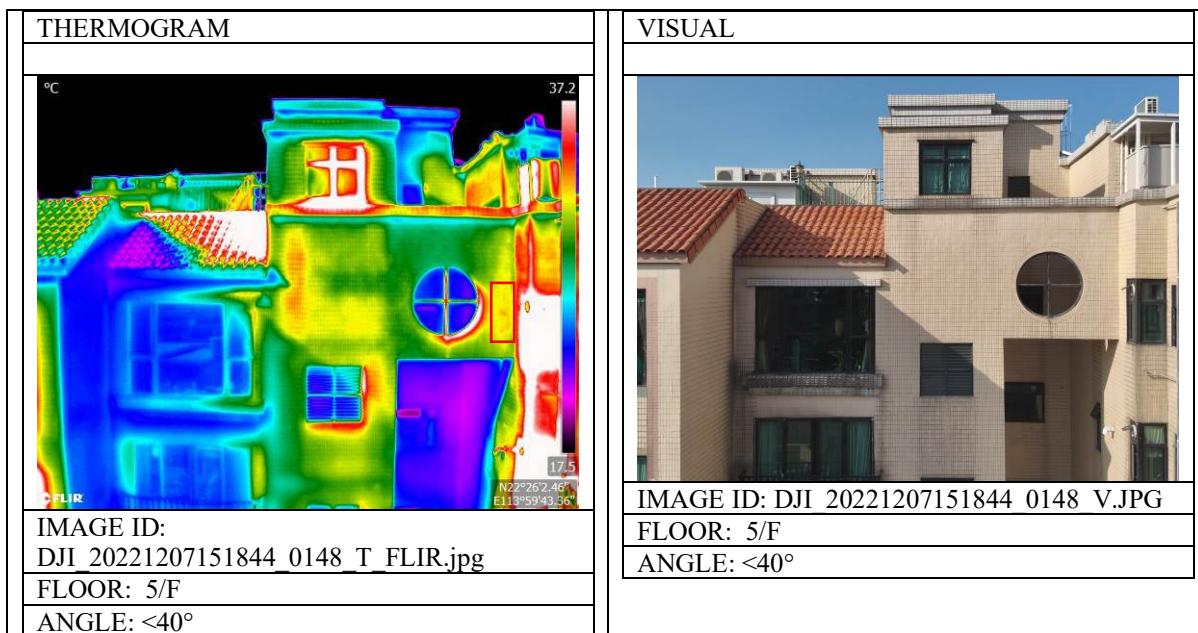
INSPECTED AREA

ELEVATION B



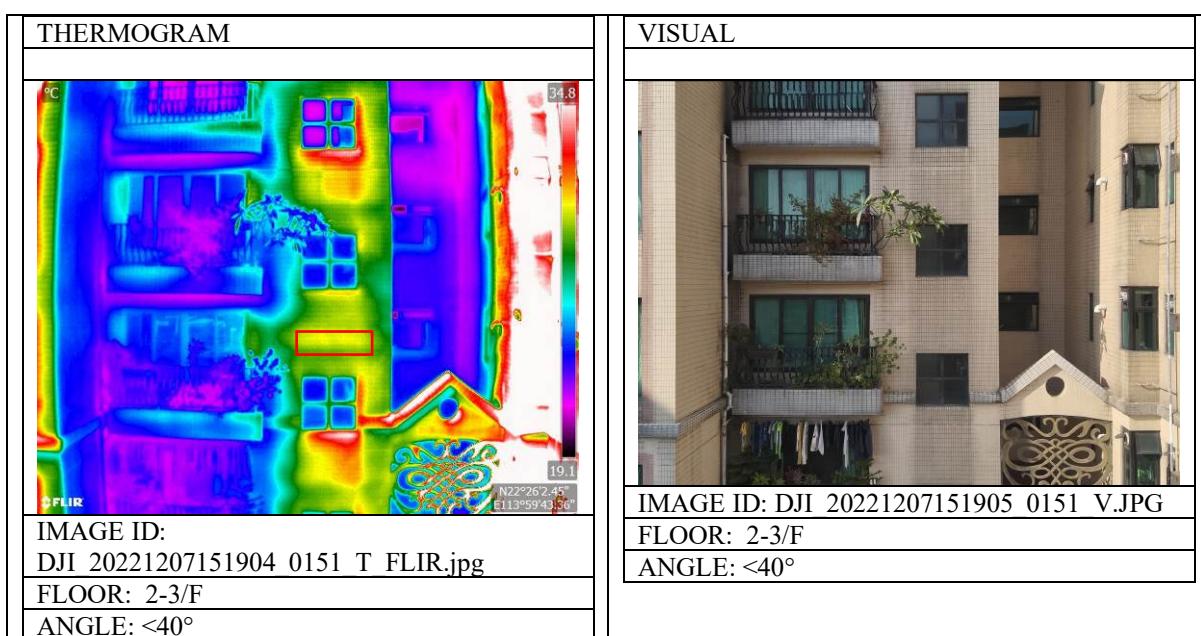
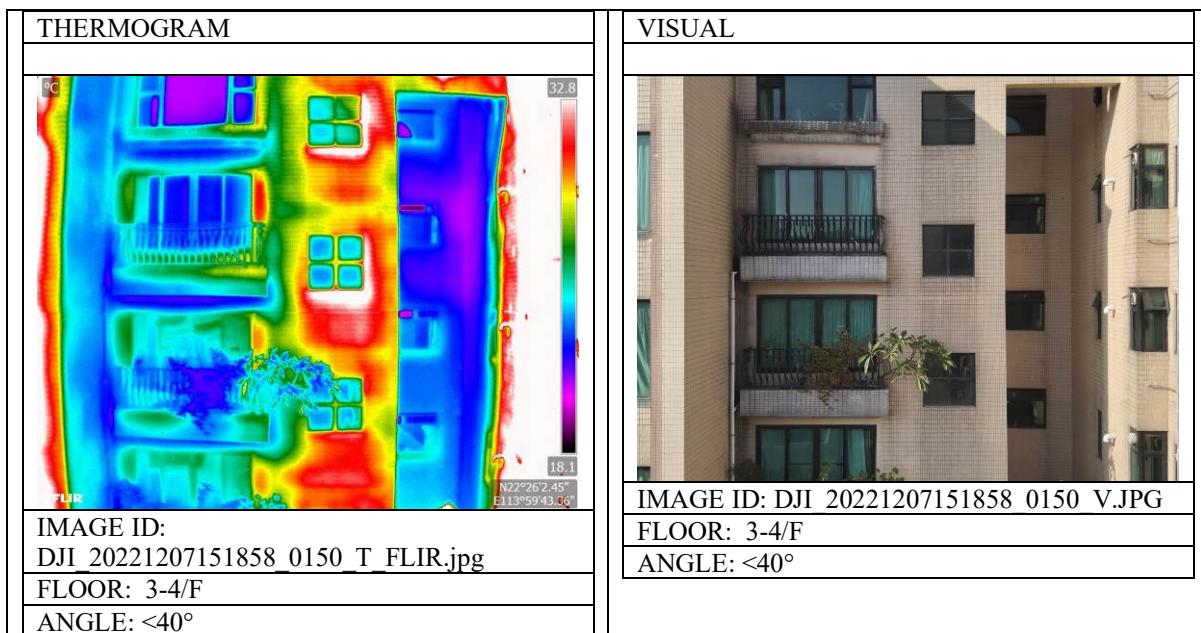
INSPECTED AREA

ELEVATION B



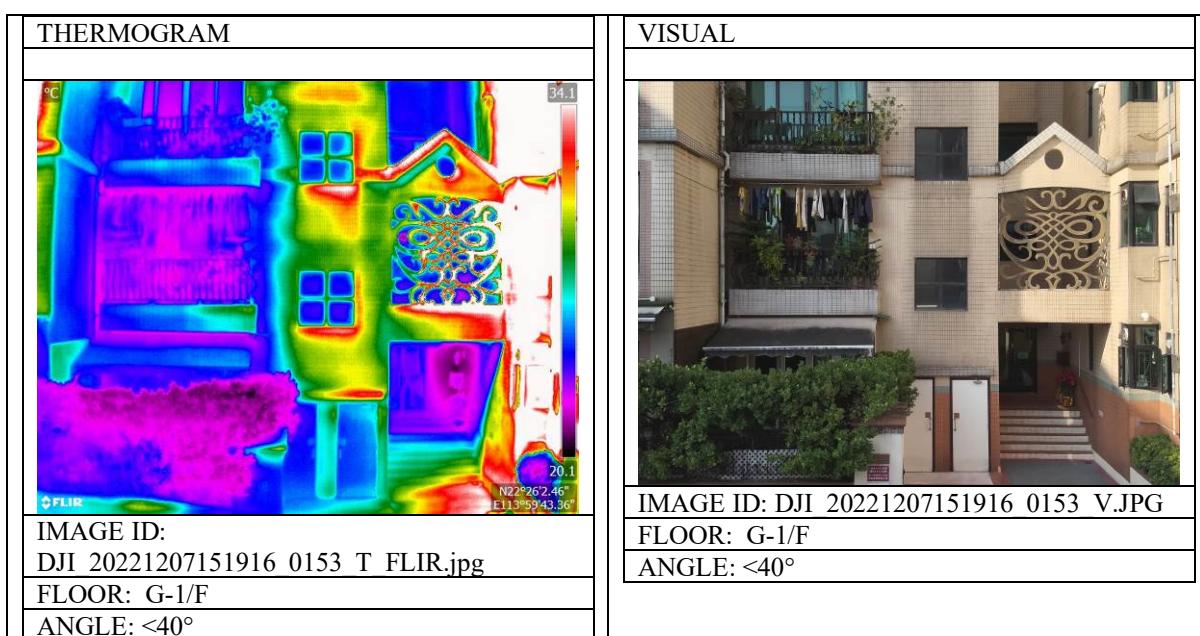
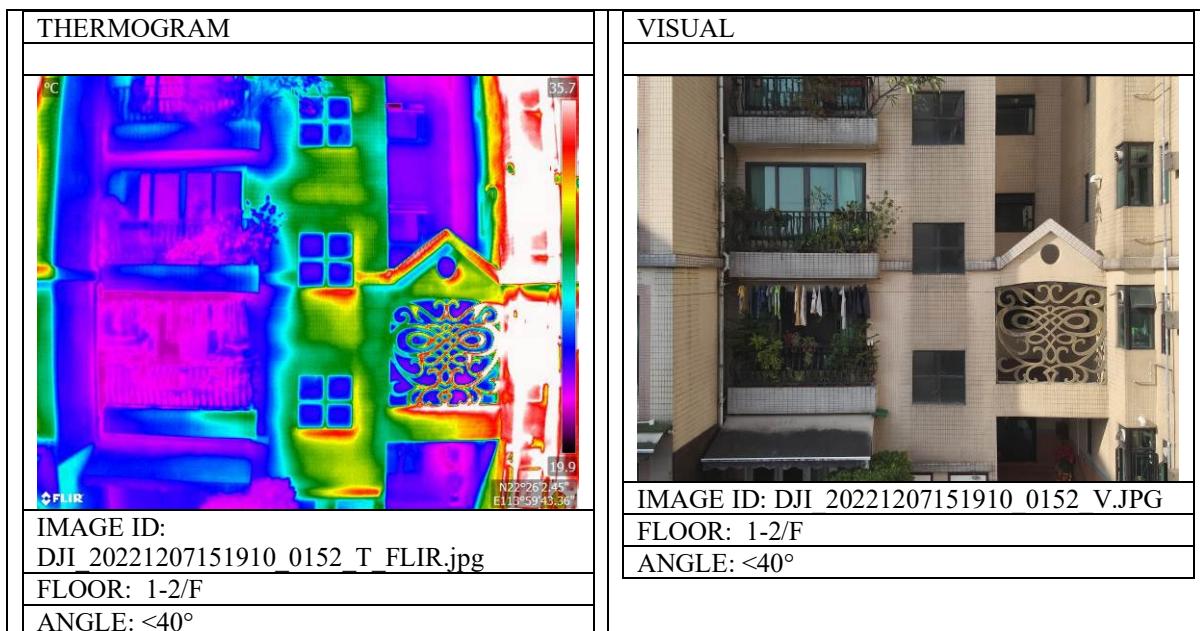
INSPECTED AREA

ELEVATION B

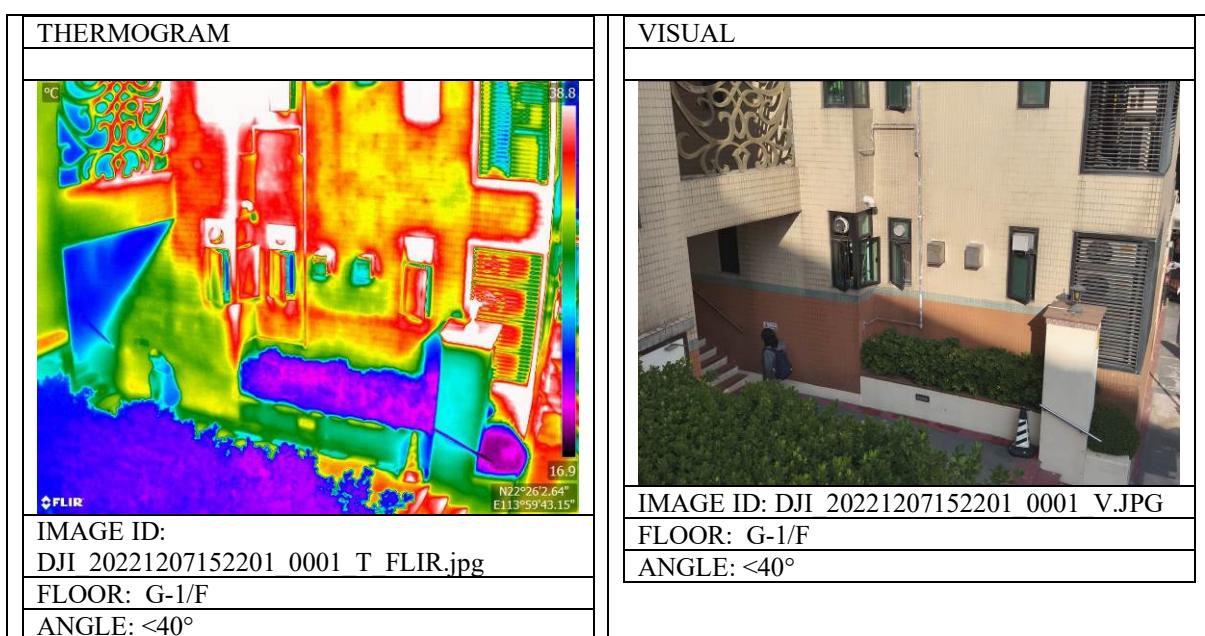
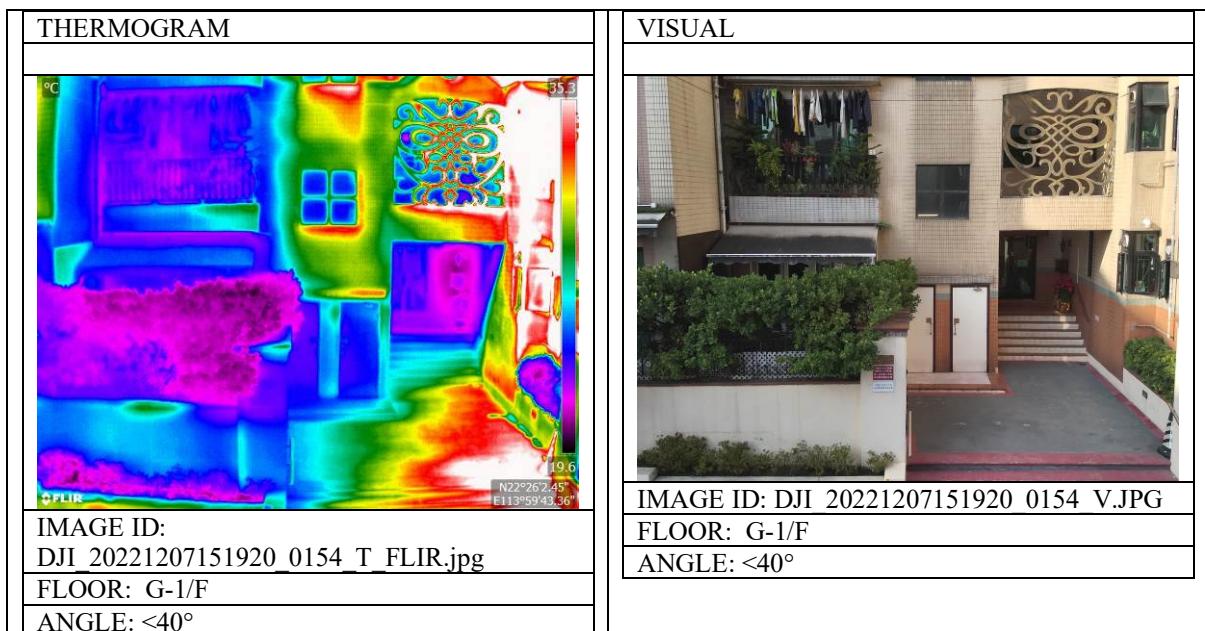


INSPECTED AREA

ELEVATION B

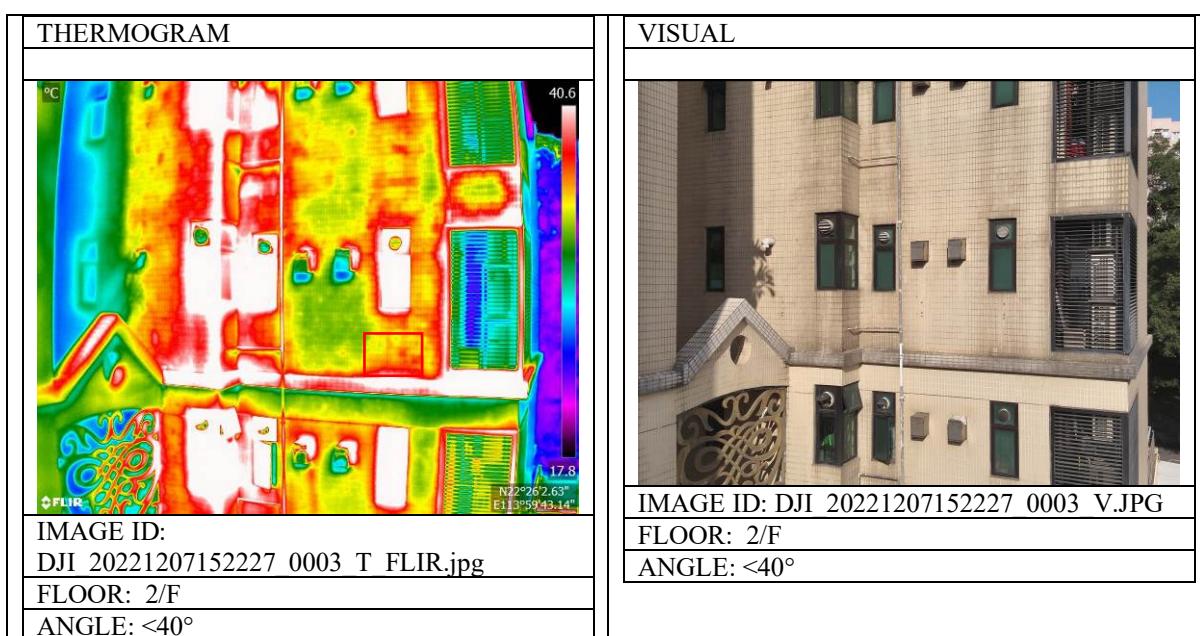
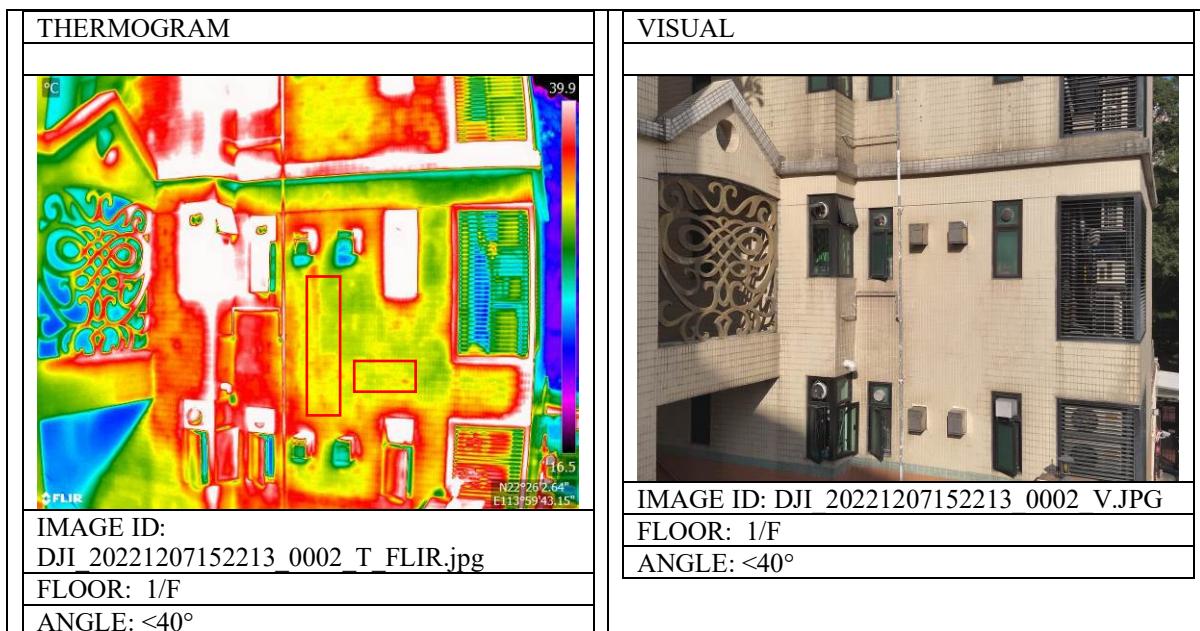


INSPECTED AREA	ELEVATION B
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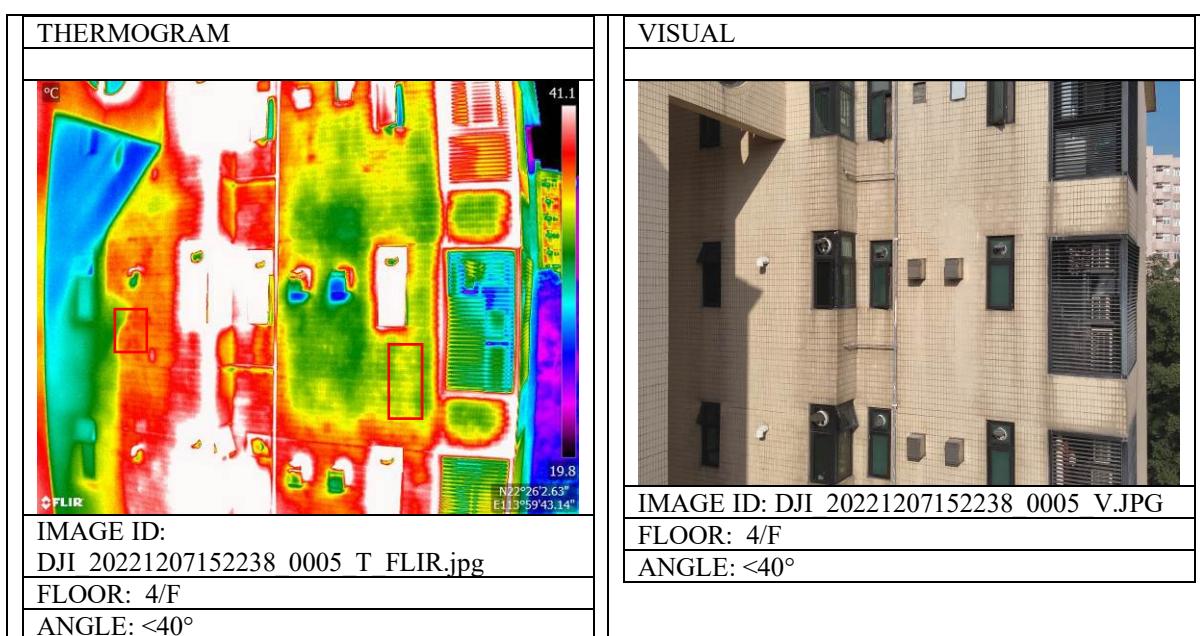
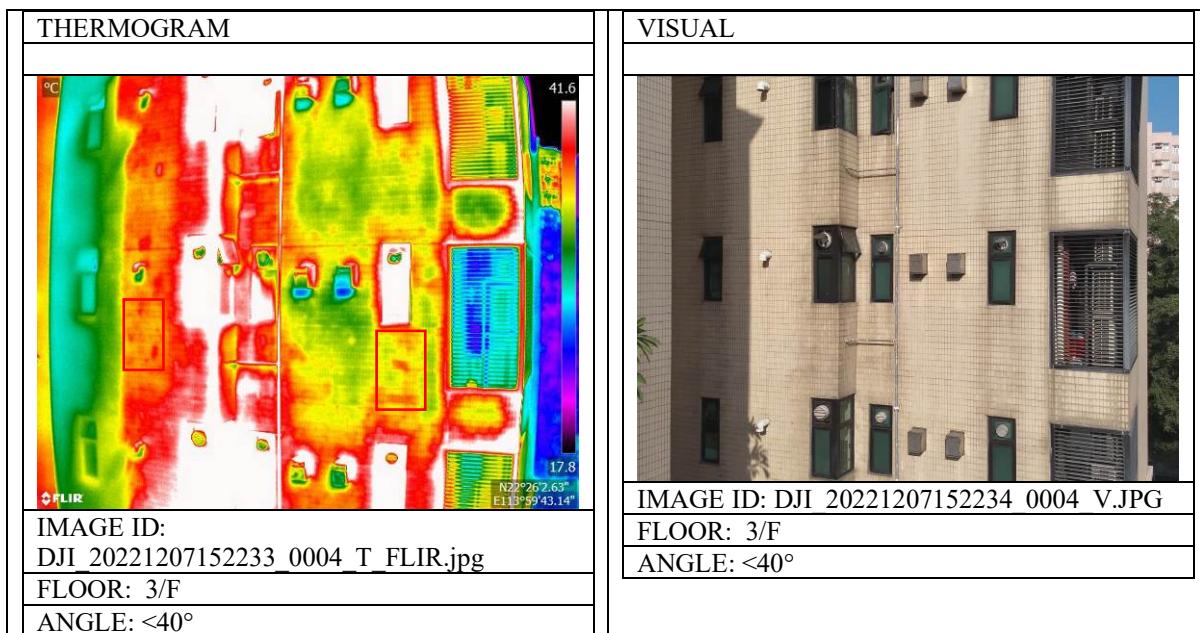
INSPECTED AREA

ELEVATION B



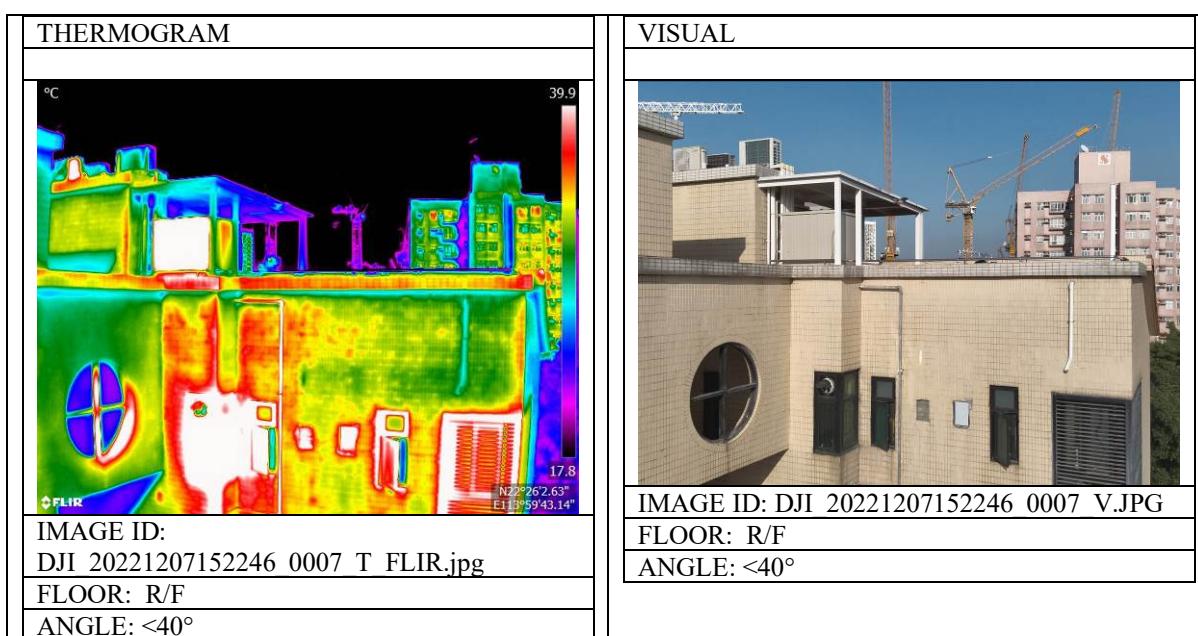
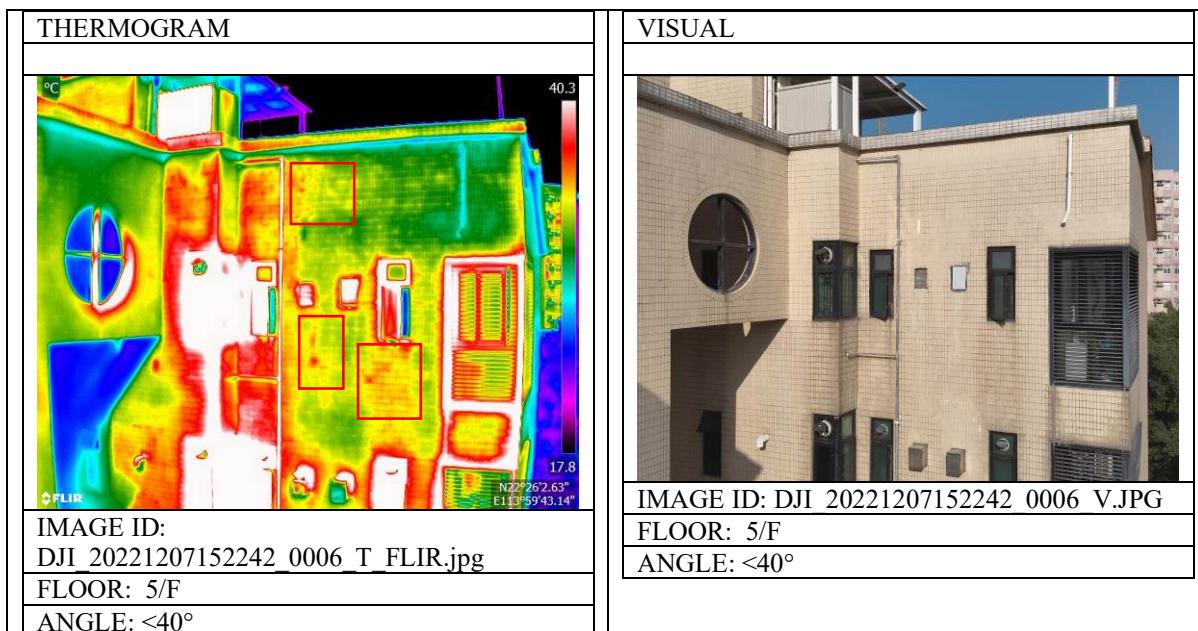
INSPECTED AREA

ELEVATION B



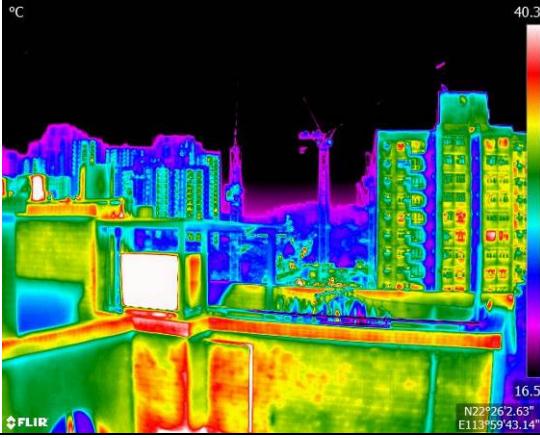
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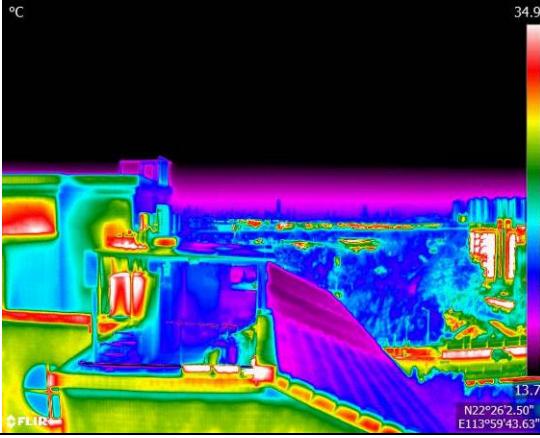
ELEVATION B



INSPECTED AREA

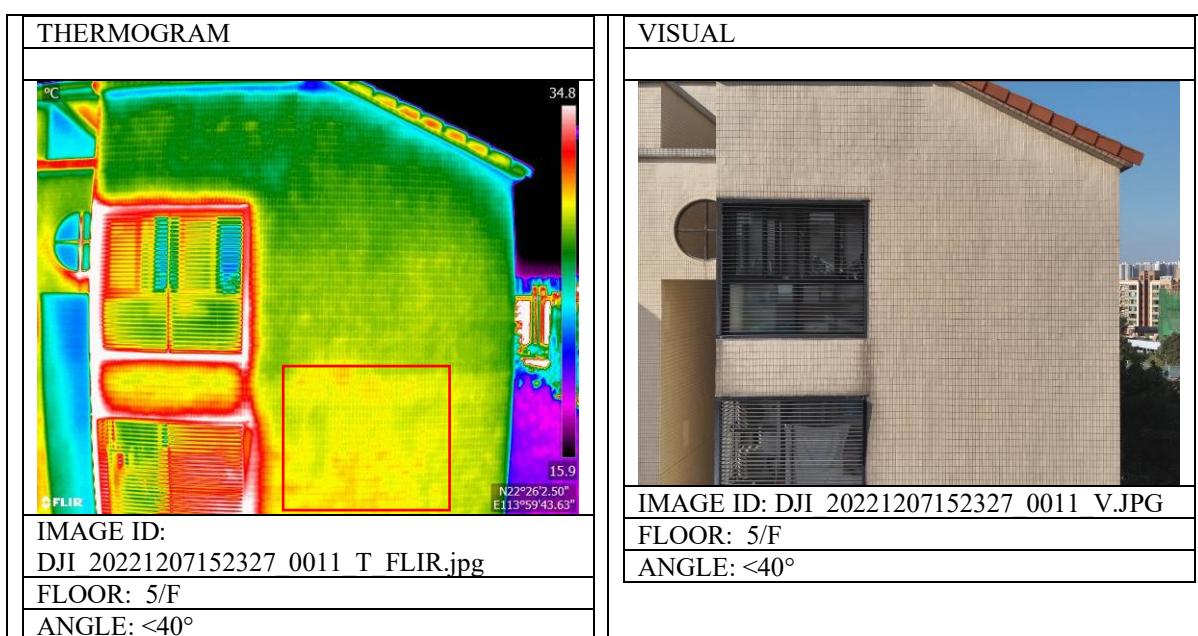
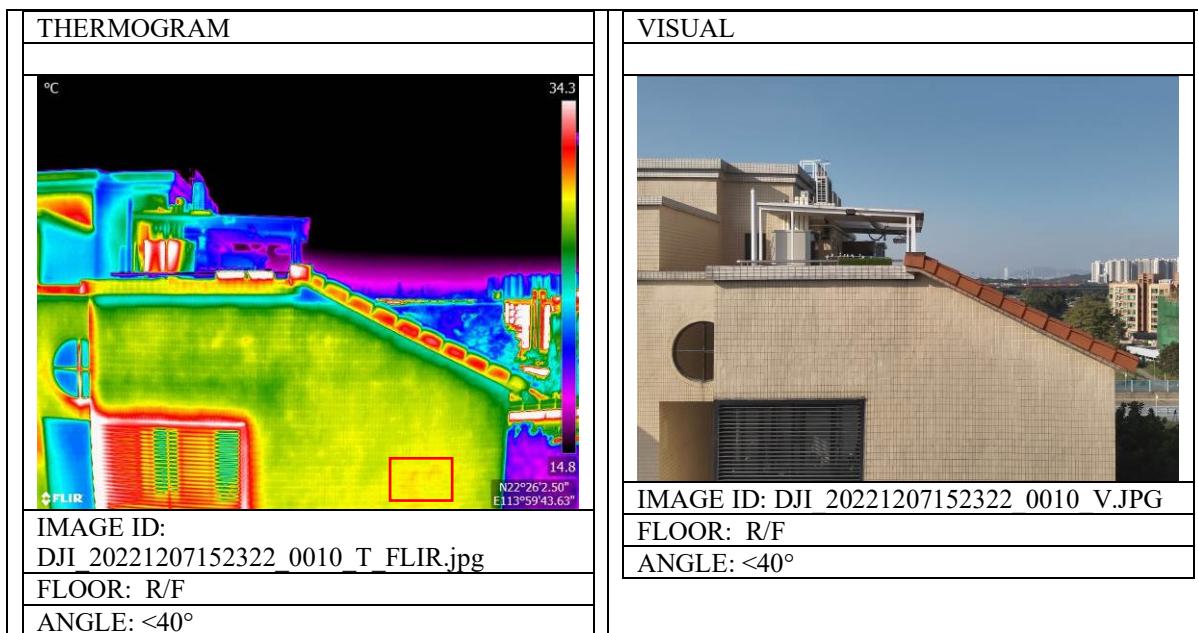
ELEVATION B

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152249_0008_T_FLIR.jpg	IMAGE ID: DJI_20221207152249_0008_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152318_0009_T_FLIR.jpg	IMAGE ID: DJI_20221207152318_0009_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

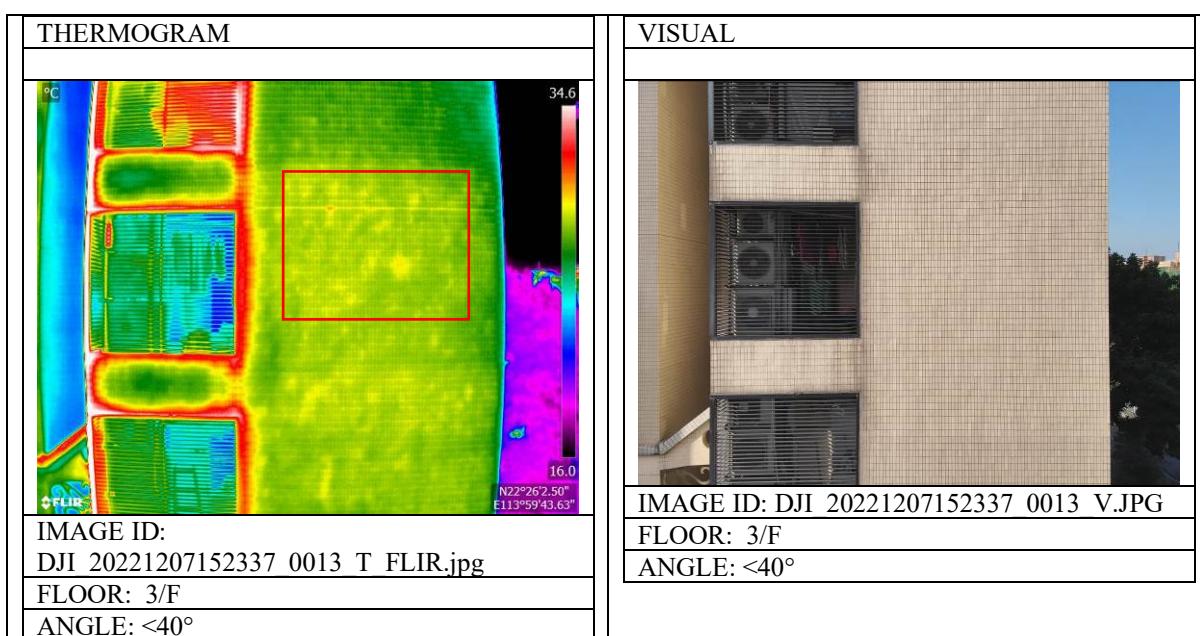
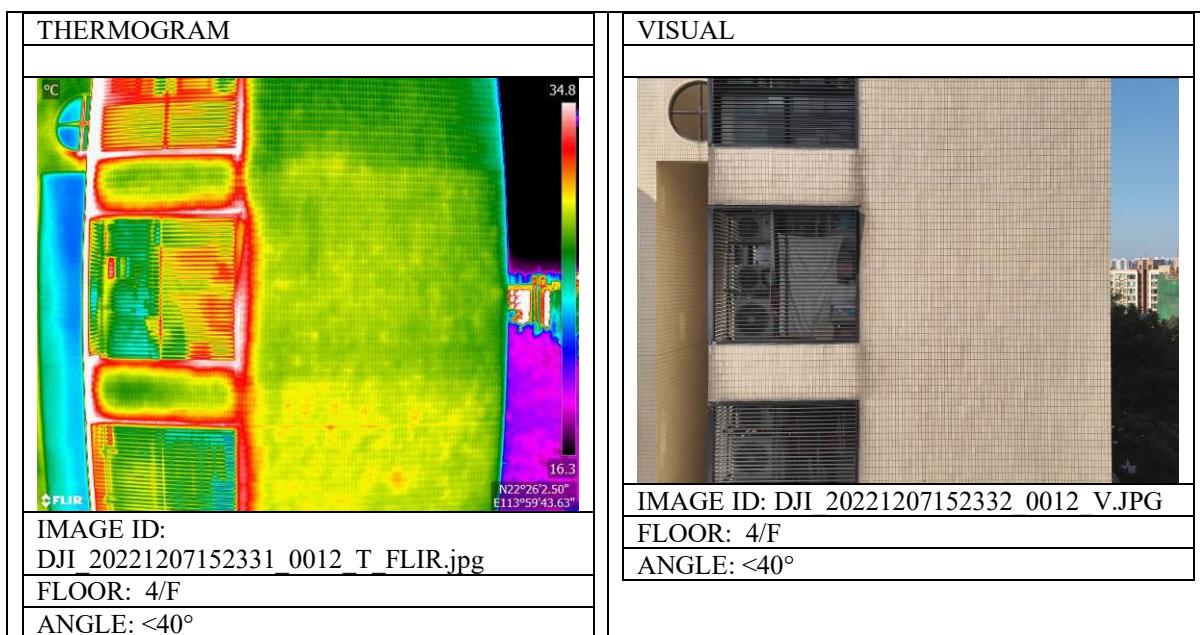
INSPECTED AREA

ELEVATION B



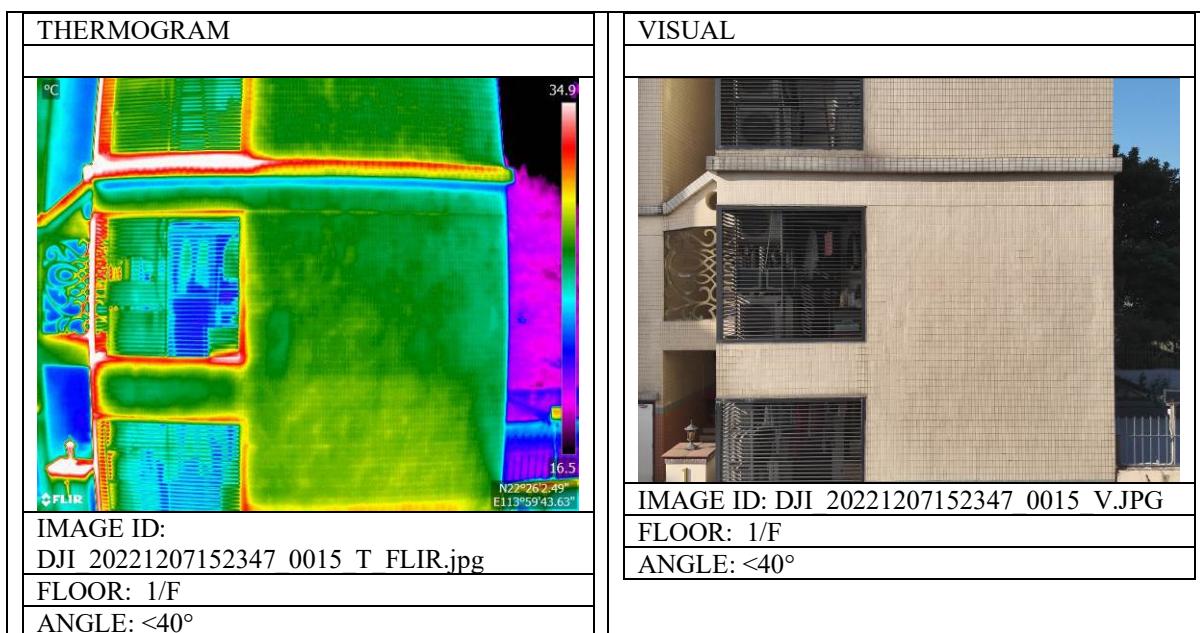
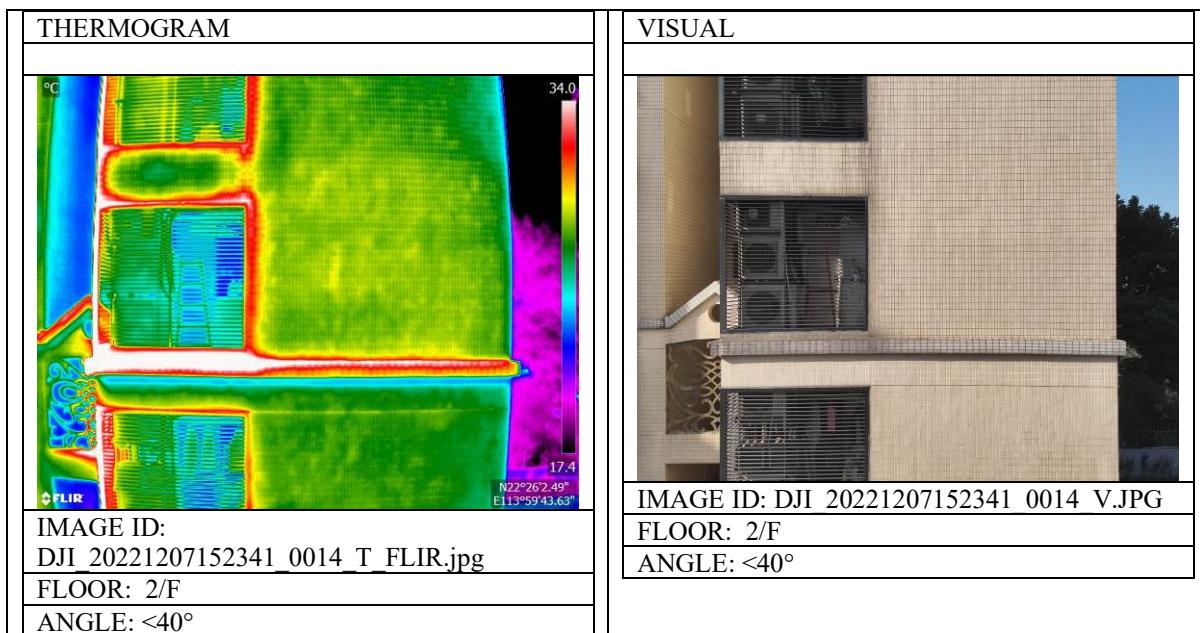
INSPECTED AREA

ELEVATION B



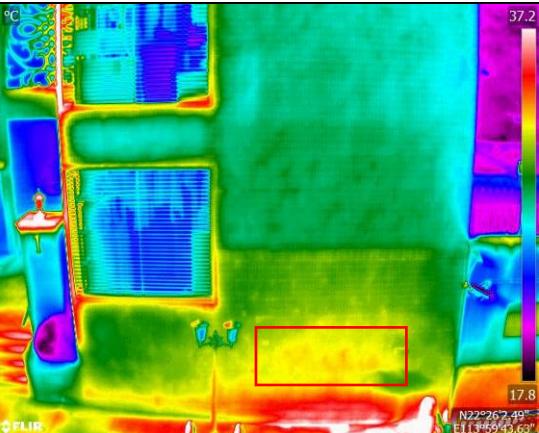
INSPECTED AREA

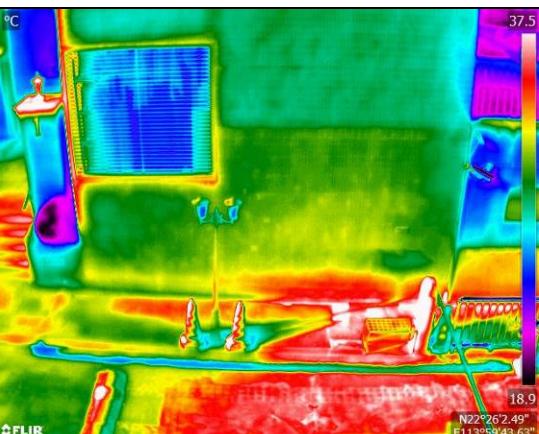
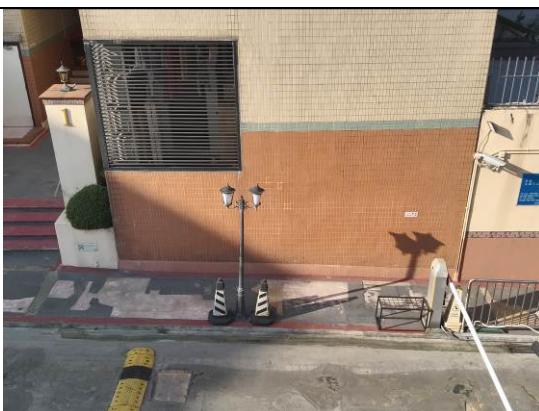
ELEVATION B



INSPECTED AREA

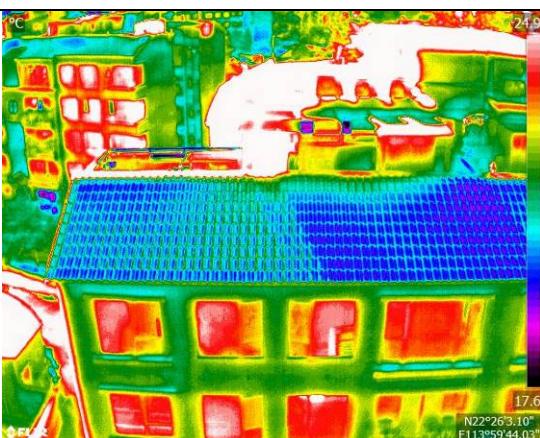
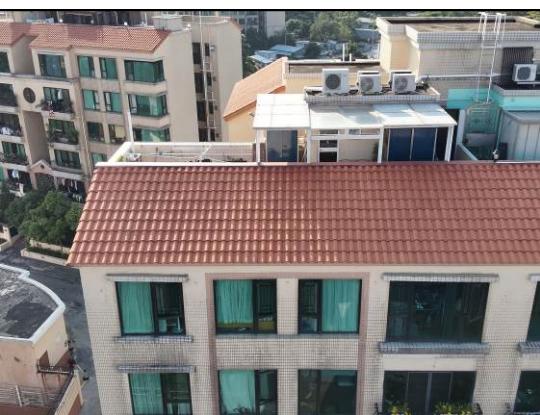
ELEVATION B

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152350_0016_T_FLIR.jpg	IMAGE ID: DJI_20221207152350_0016_V.JPG
FLOOR: G-1/F	FLOOR: G-1/F
ANGLE: <40°	ANGLE: <40°

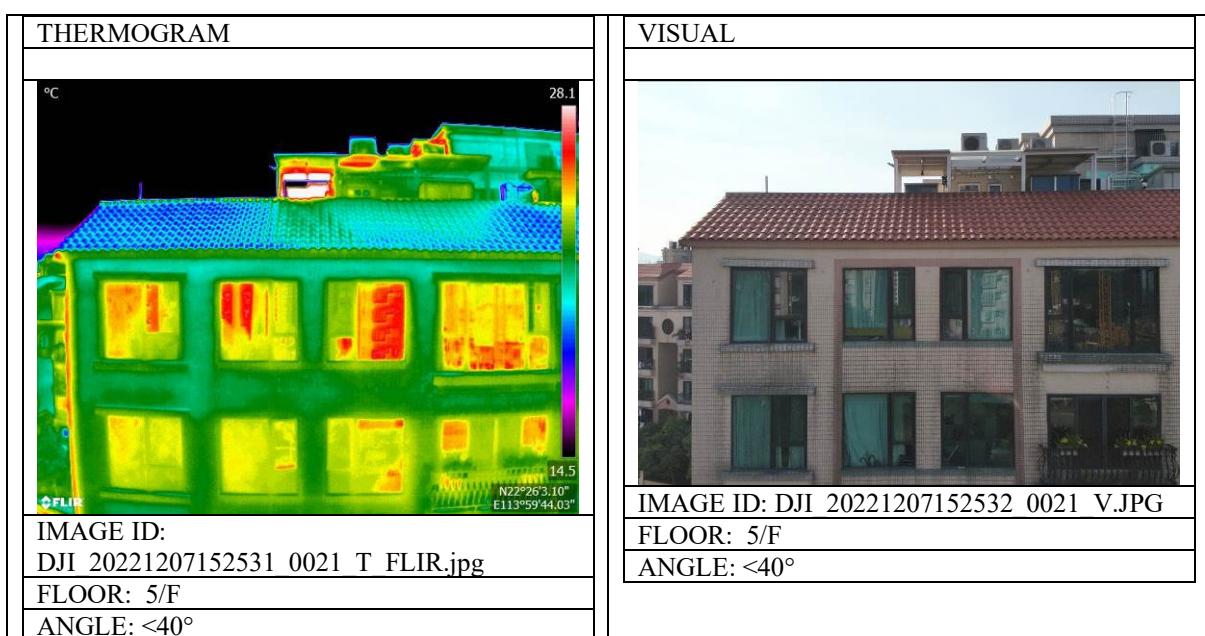
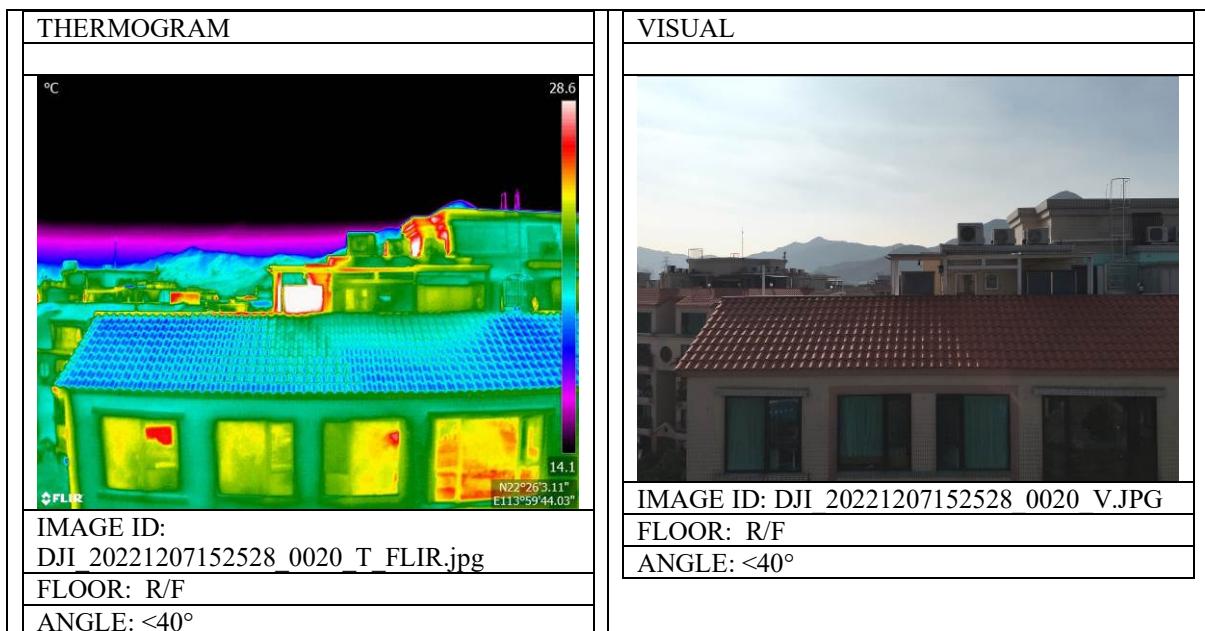
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152352_0017_T_FLIR.jpg	IMAGE ID: DJI_20221207152352_0017_V.JPG
FLOOR: G/F	FLOOR: G/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA	ELEVATION C
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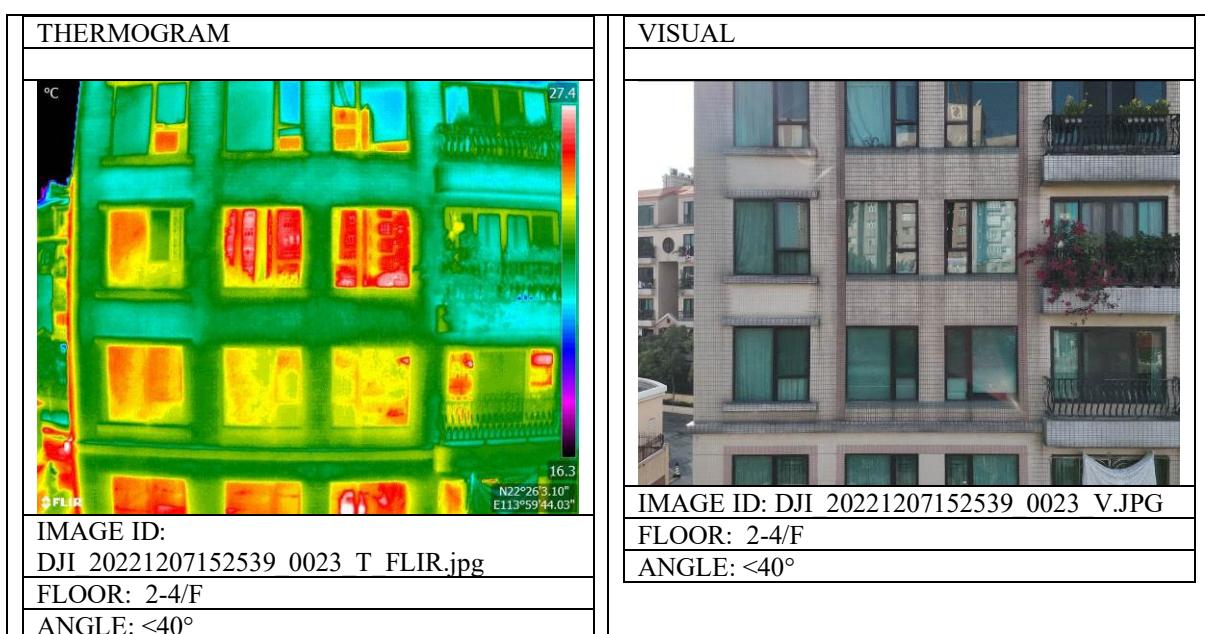
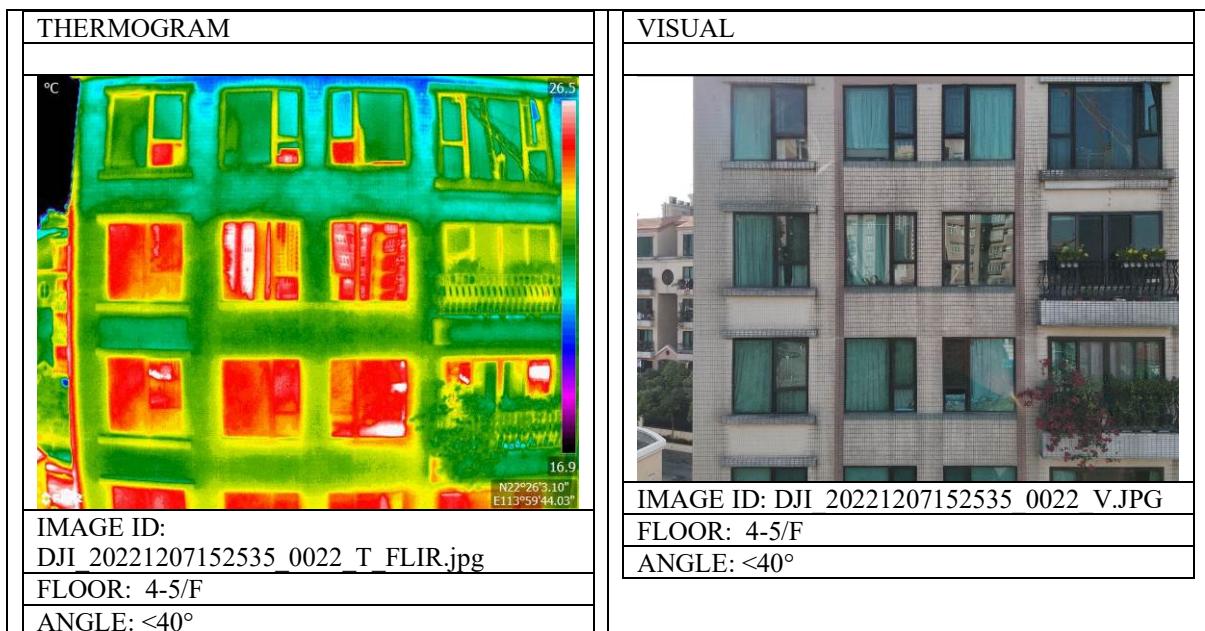
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152519_0018_T_FLIR.jpg	IMAGE ID: DJI_20221207152519_0018_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152522_0019_T_FLIR.jpg	IMAGE ID: DJI_20221207152522_0019_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

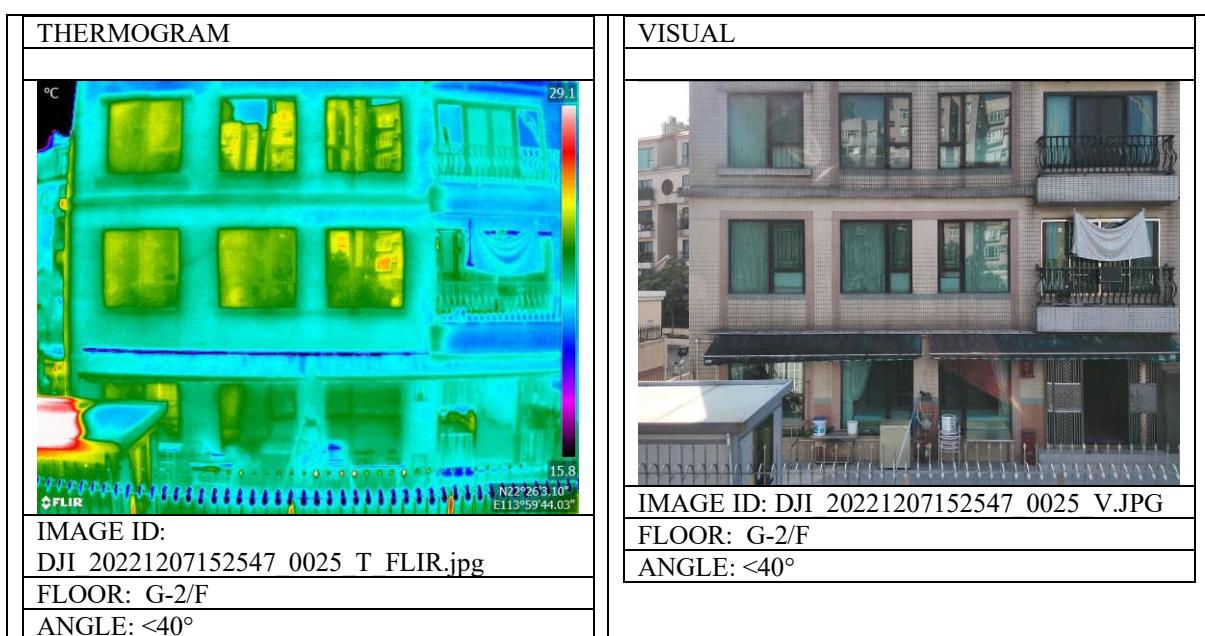
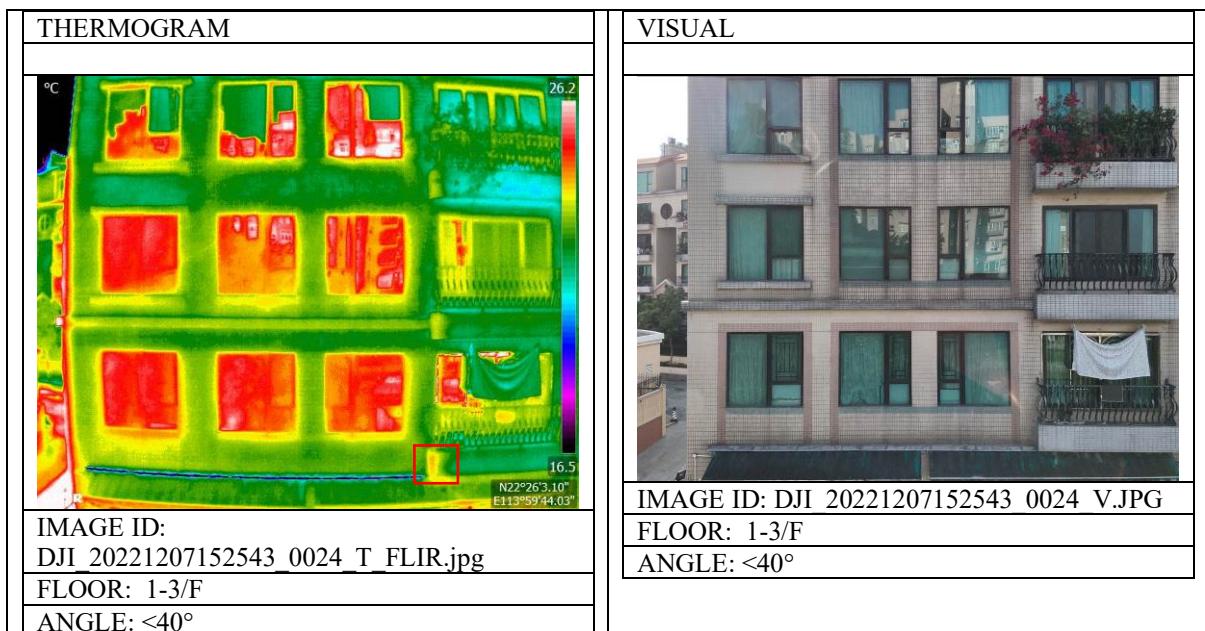
INSPECTED AREA	ELEVATION C
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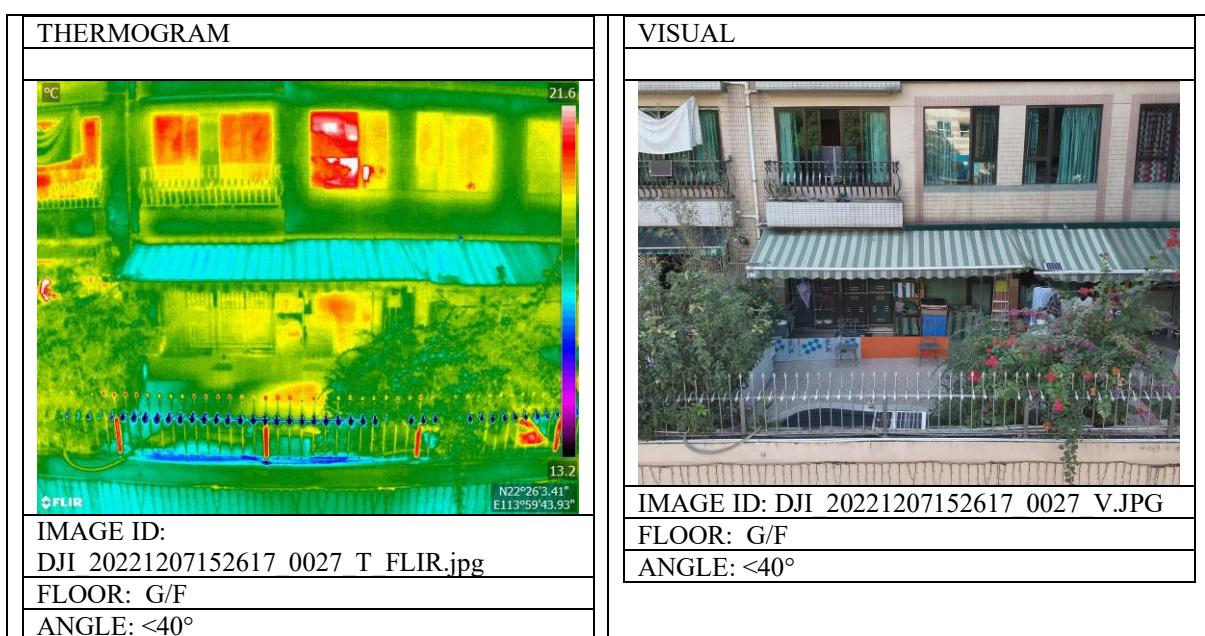
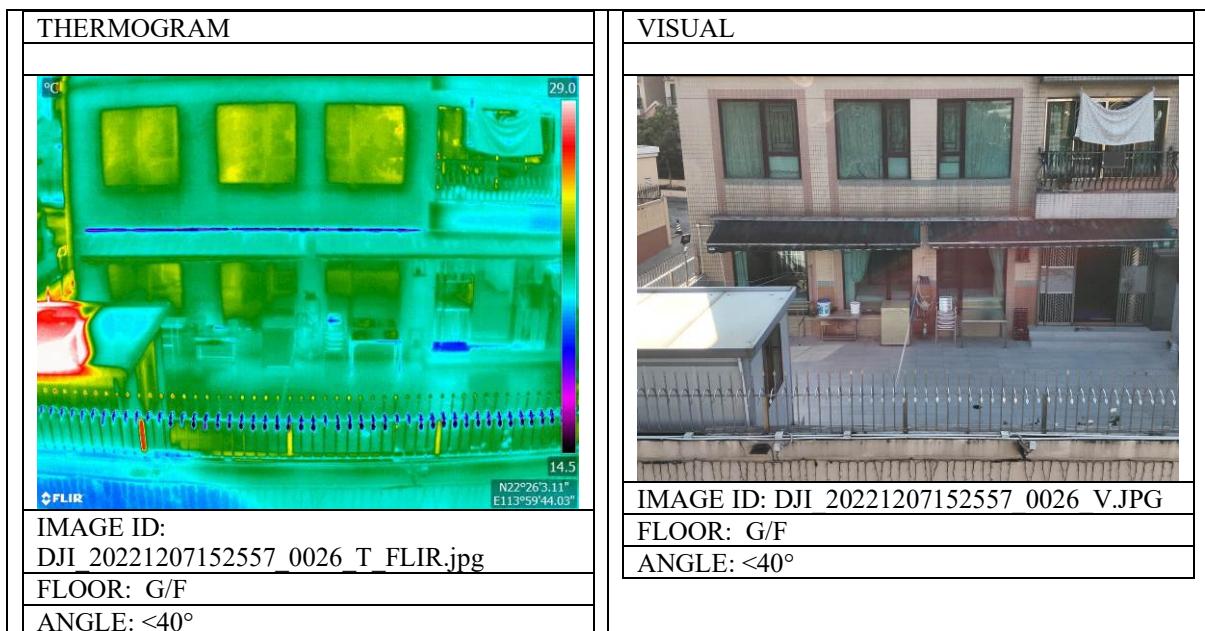
INSPECTED AREA	ELEVATION C
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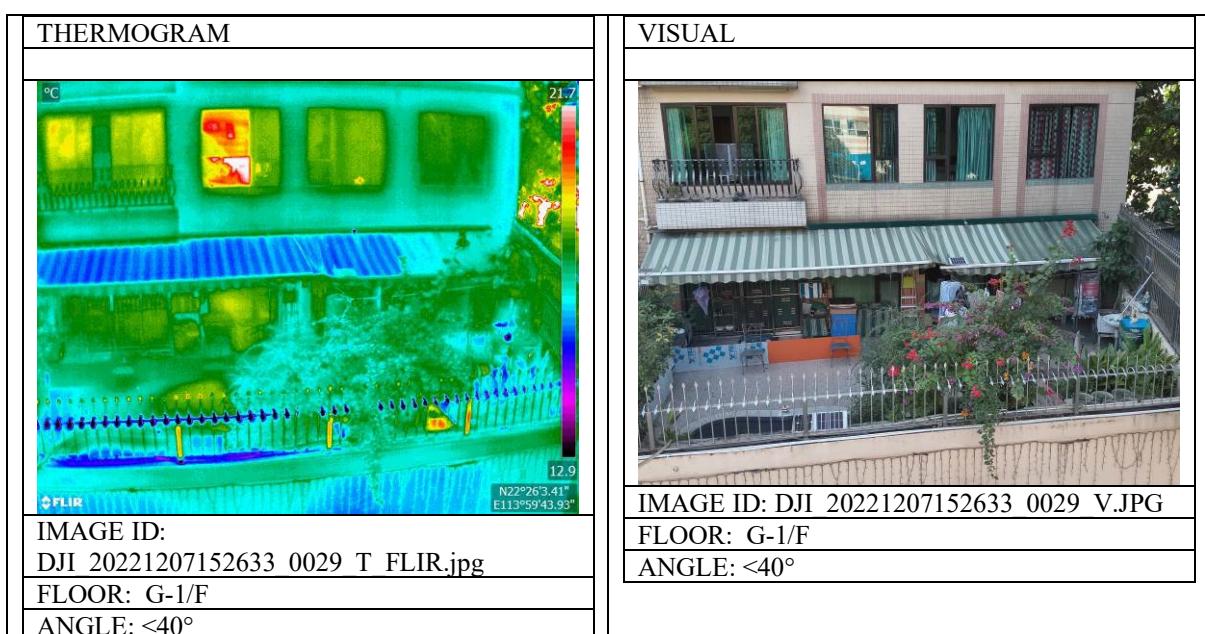
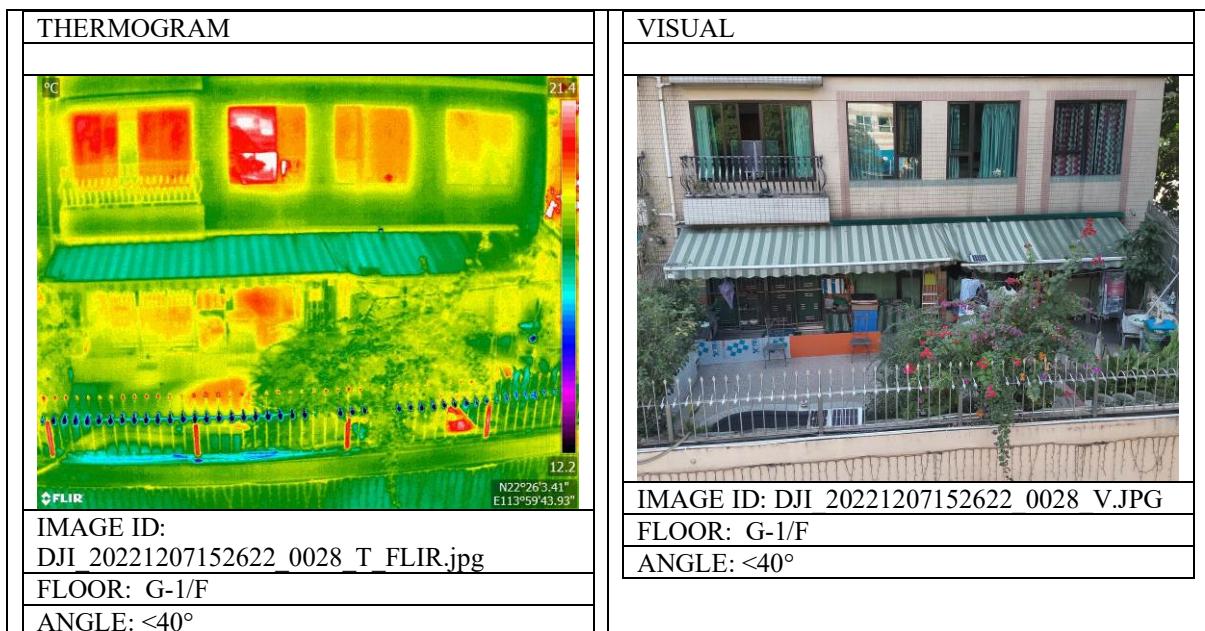
INSPECTED AREA	ELEVATION C
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INSPECTED AREA	ELEVATION C
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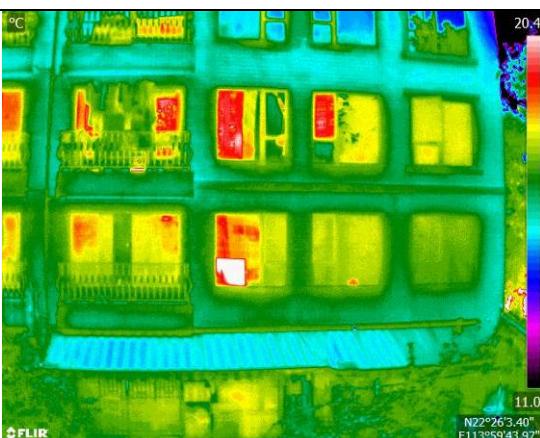


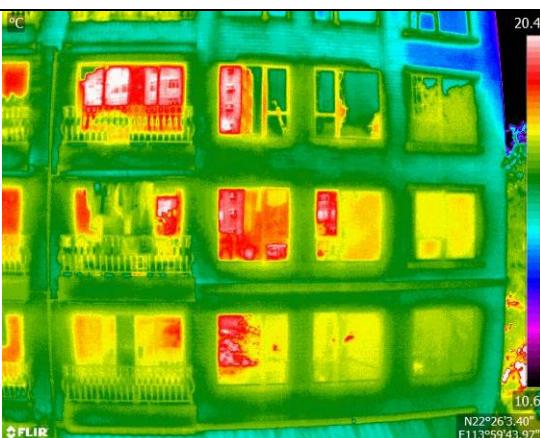
INSPECTED AREA	ELEVATION C
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INSPECTED AREA

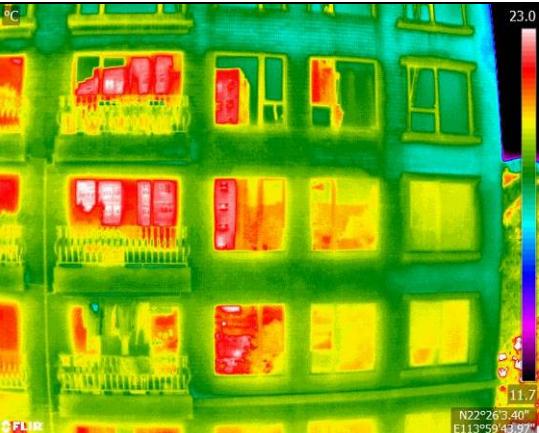
ELEVATION C

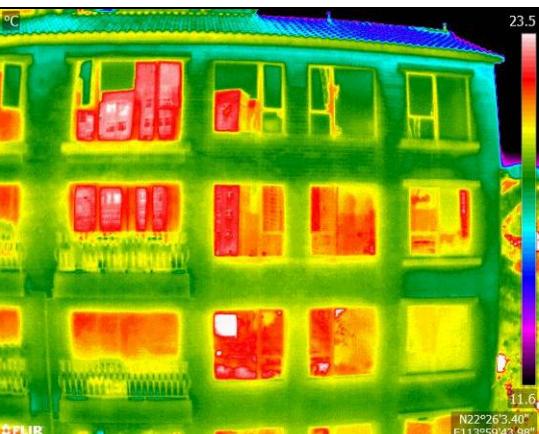
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152654_0030_T_FLIR.jpg	IMAGE ID: DJI_20221207152654_0030_V.JPG
FLOOR: 1-2/F	FLOOR: 1-2/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152659_0031_T_FLIR.jpg	IMAGE ID: DJI_20221207152659_0031_V.JPG
FLOOR: 2-3/F	FLOOR: 2-3/F
ANGLE: <40°	ANGLE: <40°

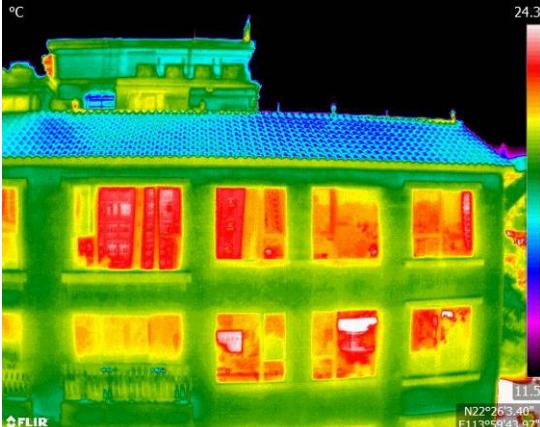
INSPECTED AREA

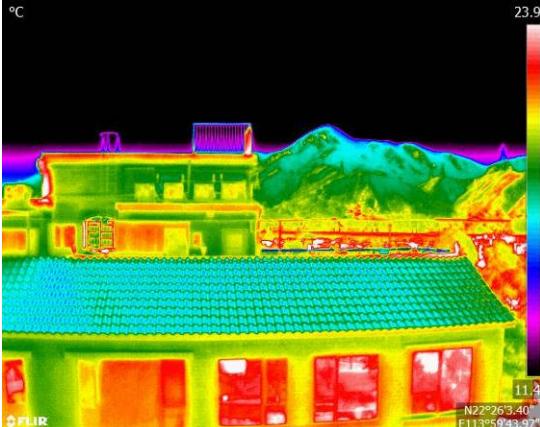
ELEVATION C

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152704_0032_T_FLIR.jpg	IMAGE ID: DJI_20221207152704_0032_V.JPG
FLOOR: 2-4/F	FLOOR: 2-4/F
ANGLE: <40°	ANGLE: <40°

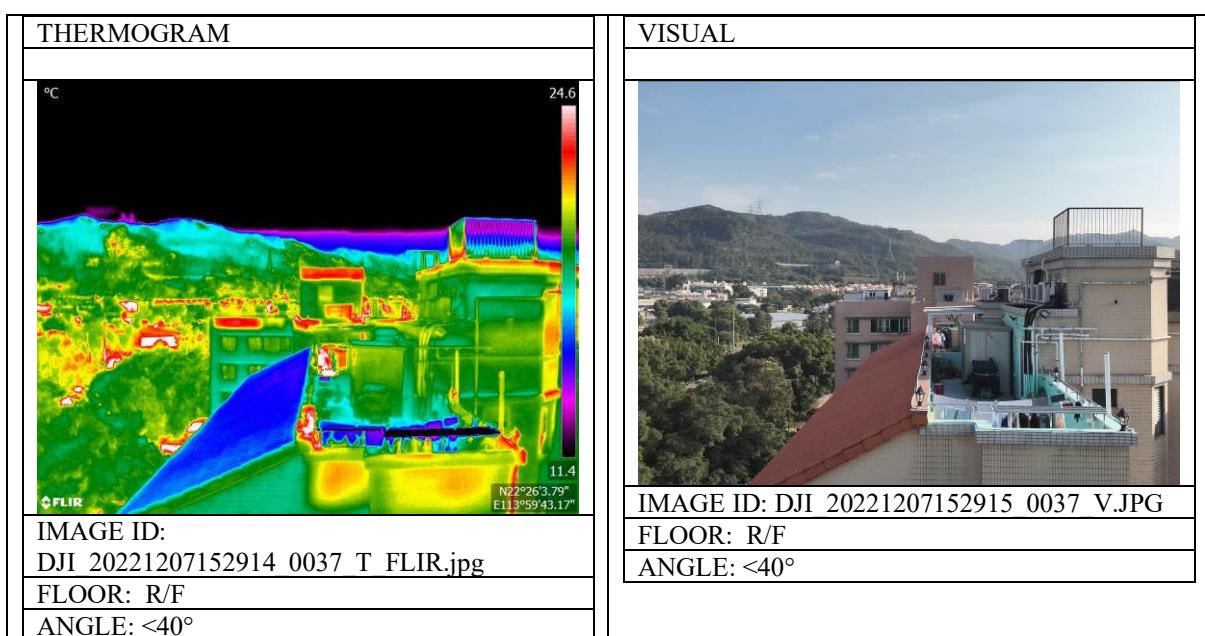
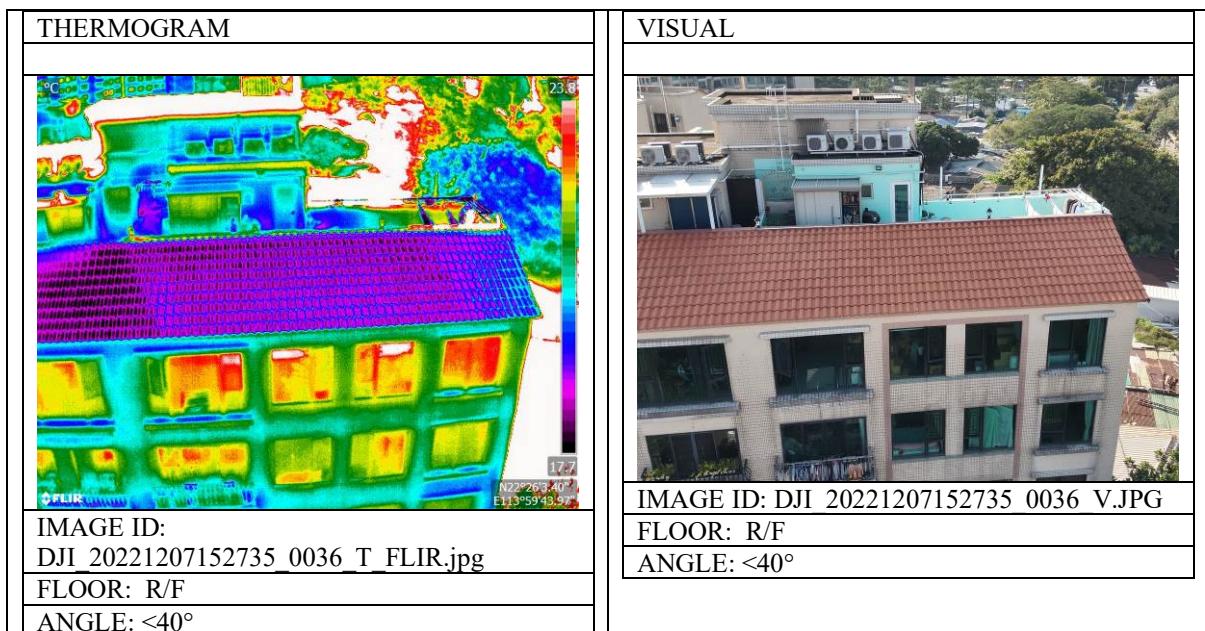
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207152709_0033_T_FLIR.jpg	IMAGE ID: DJI_20221207152709_0033_V.JPG
FLOOR: 3-5/F	FLOOR: 3-5/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA	ELEVATION C
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THERMOGRAM  <p>IMAGE ID: DJI_20221207152716_0034_T_FLIR.jpg</p> <p>FLOOR: 5/F ANGLE: <40°</p>	VISUAL  <p>IMAGE ID: DJI_20221207152716_0034_V.JPG</p> <p>FLOOR: 5/F ANGLE: <40°</p>
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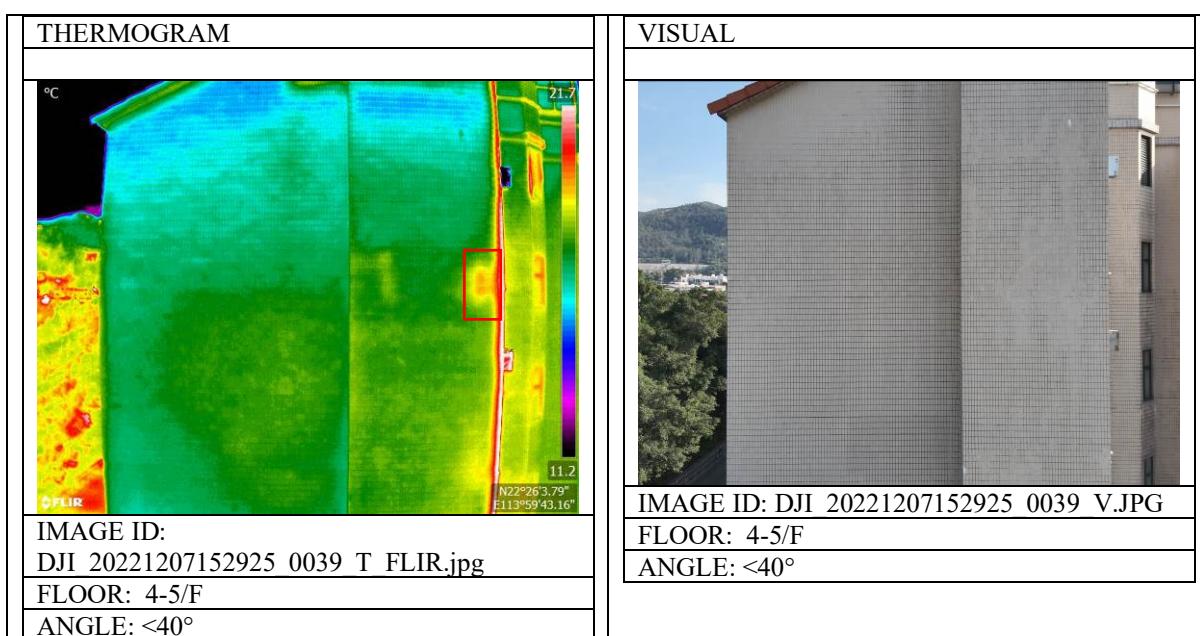
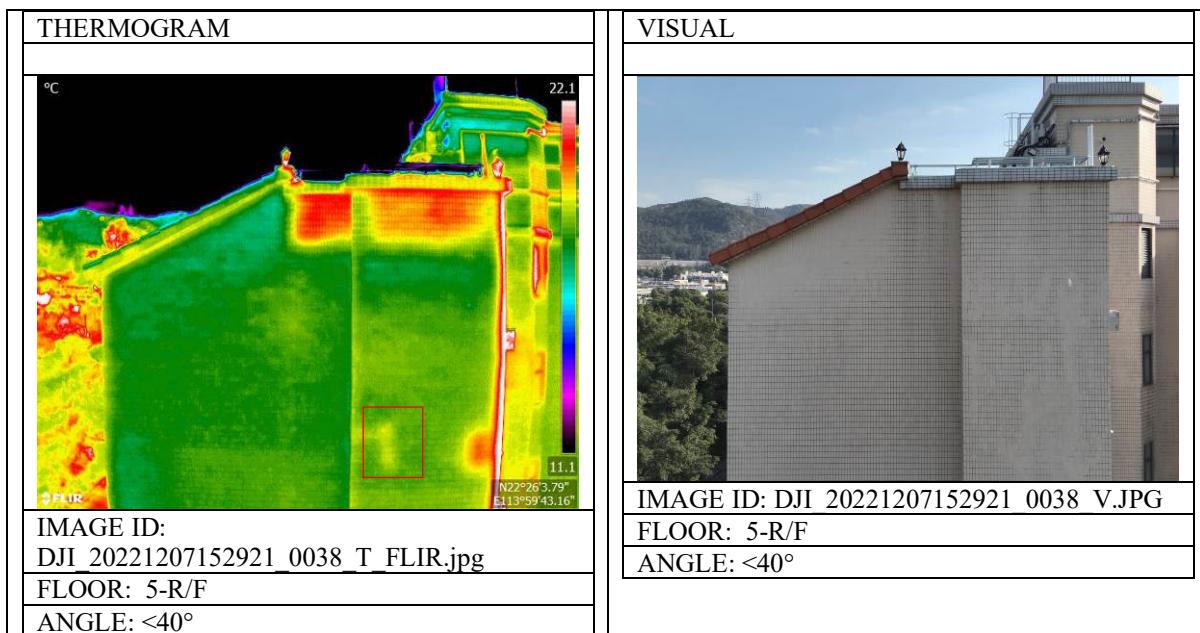
THERMOGRAM  <p>IMAGE ID: DJI_20221207152722_0035_T_FLIR.jpg</p> <p>FLOOR: R/F ANGLE: <40°</p>	VISUAL  <p>IMAGE ID: DJI_20221207152722_0035_V.JPG</p> <p>FLOOR: R/F ANGLE: <40°</p>
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INSPECTED AREA	ELEVATION C
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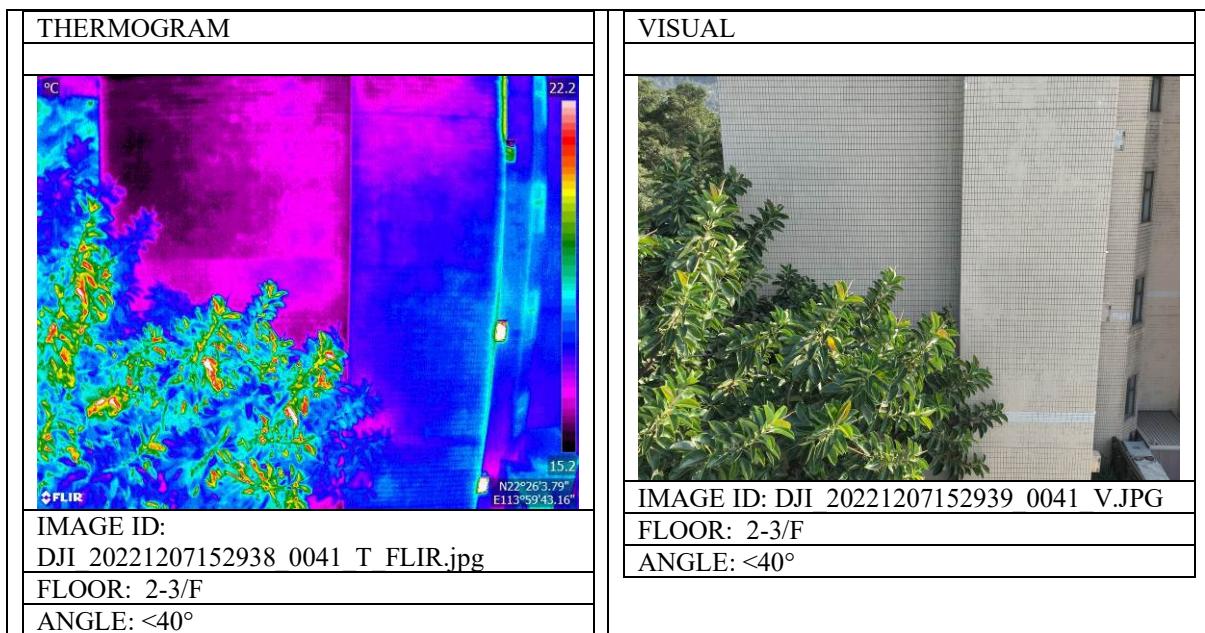
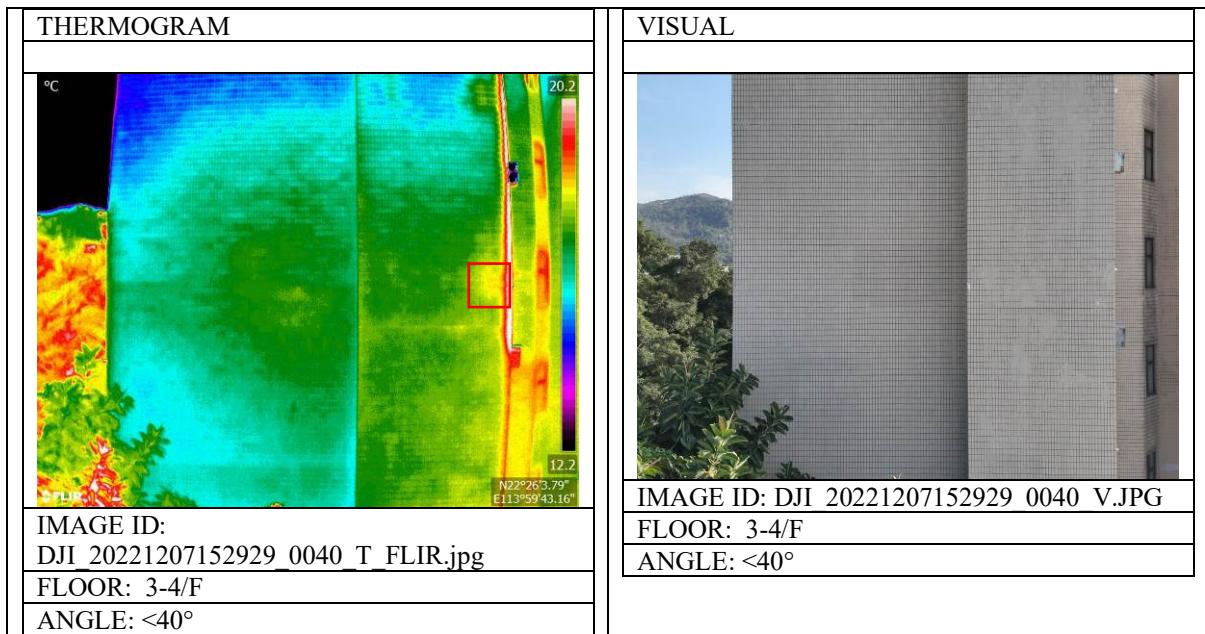


INSPECTED AREA

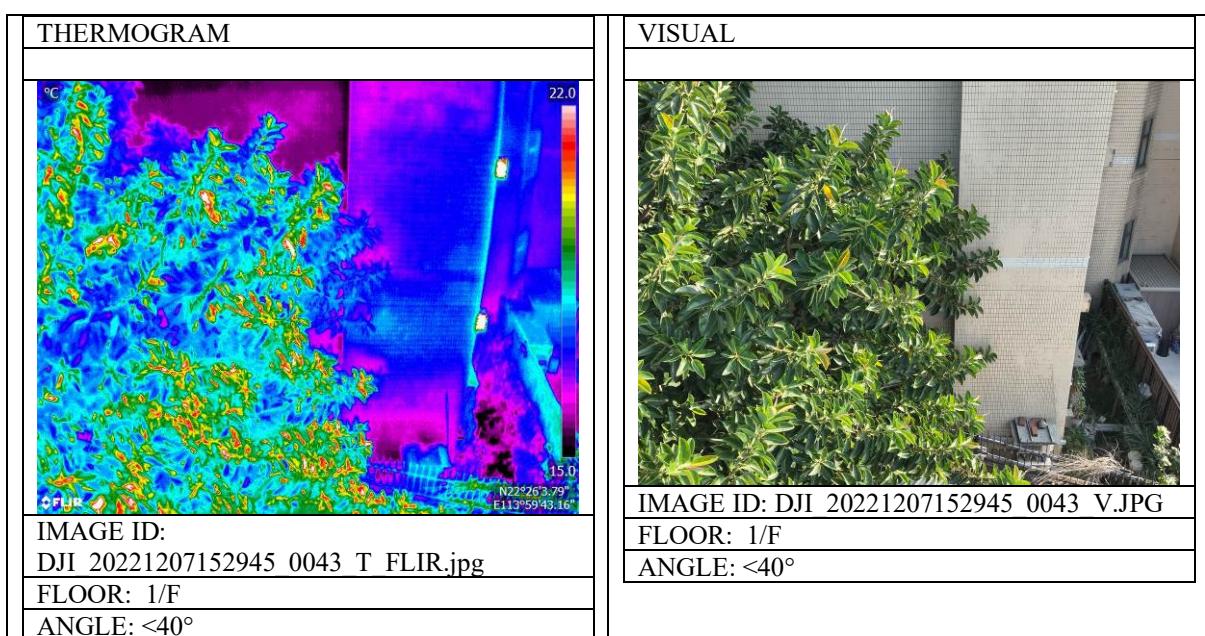
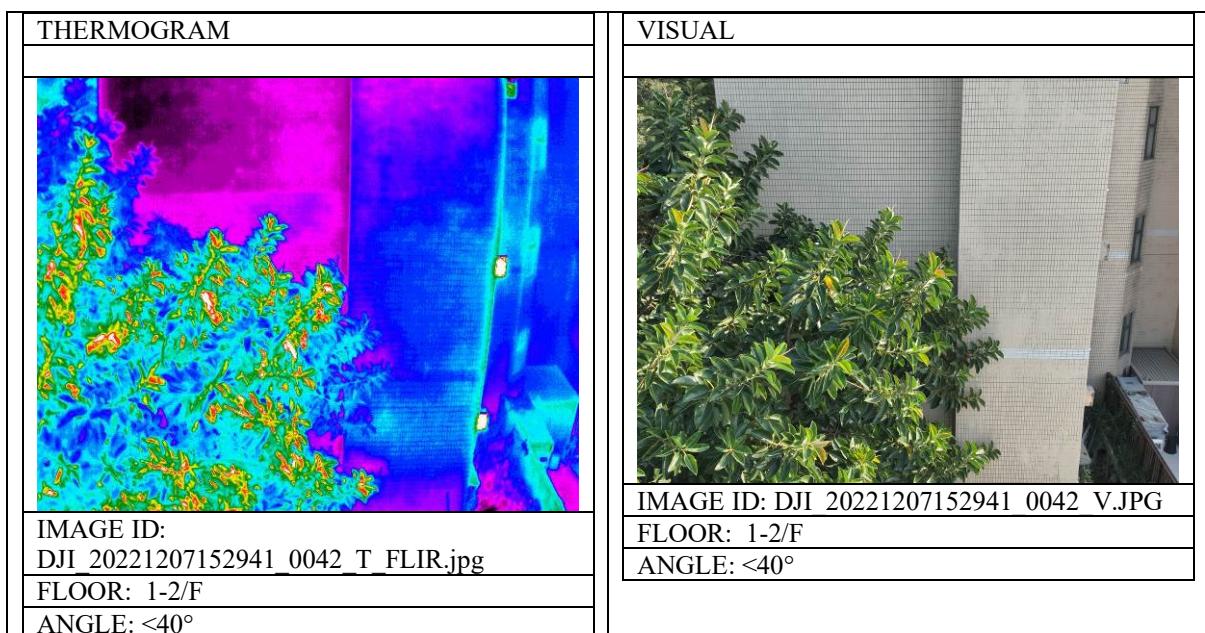
ELEVATION D



INSPECTED AREA	ELEVATION D
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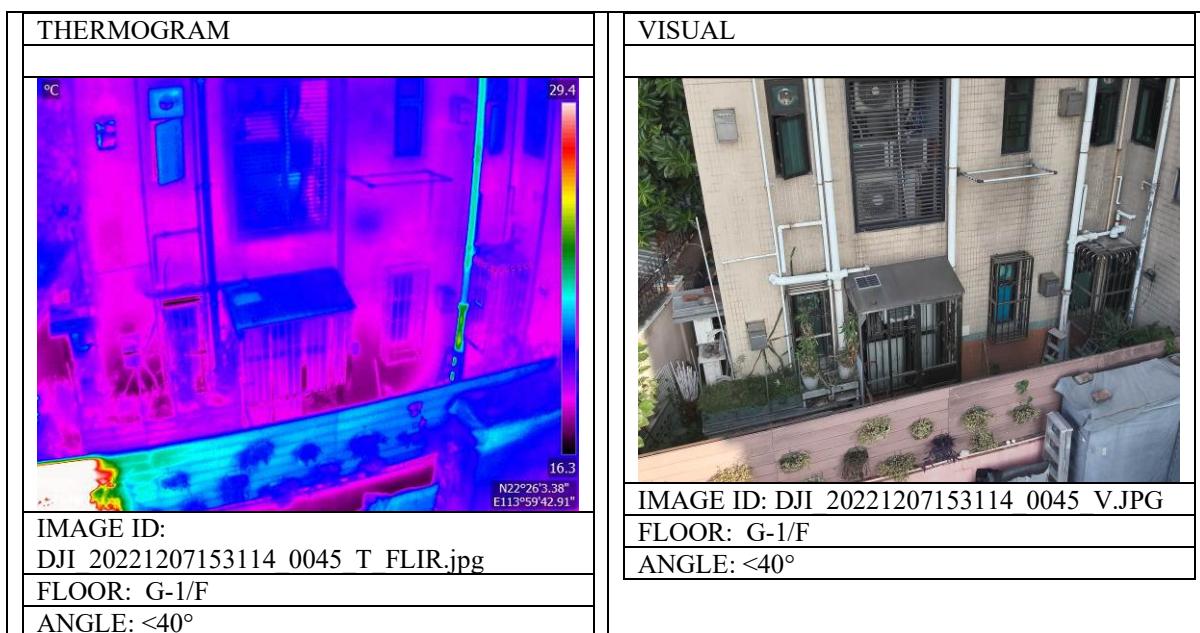
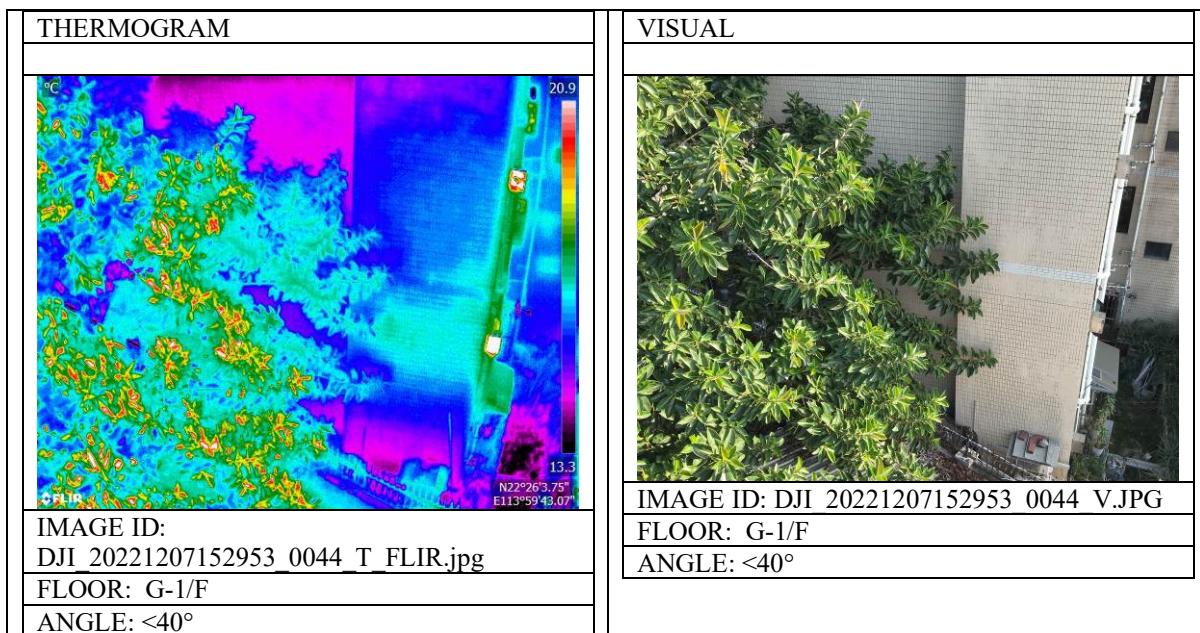


INSPECTED AREA	ELEVATION D
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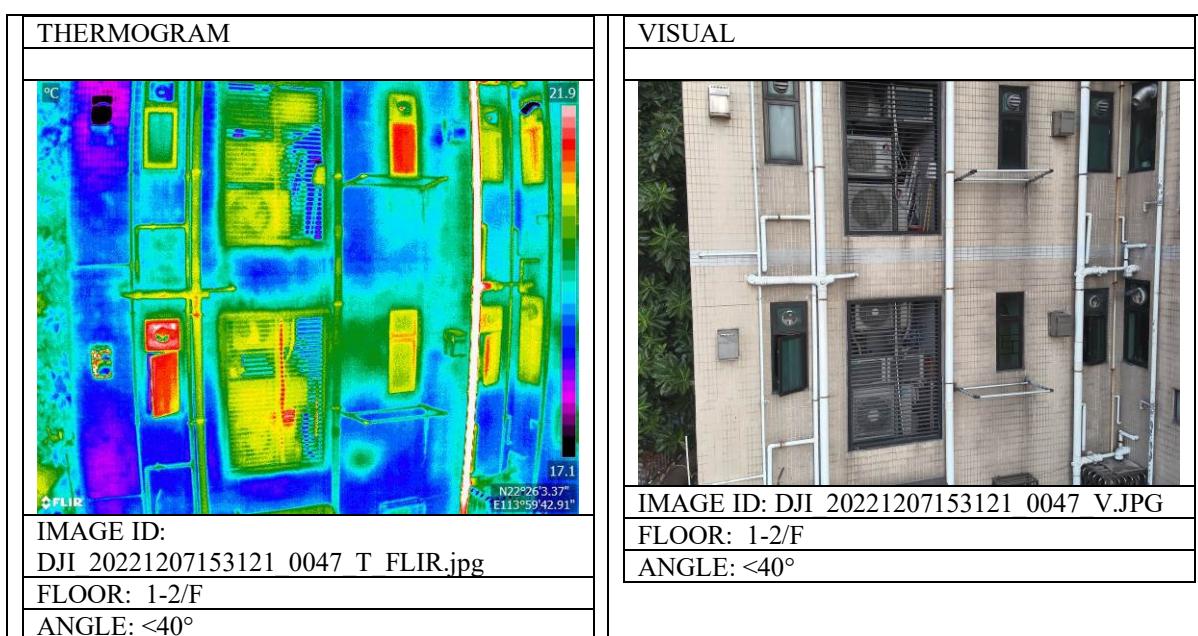
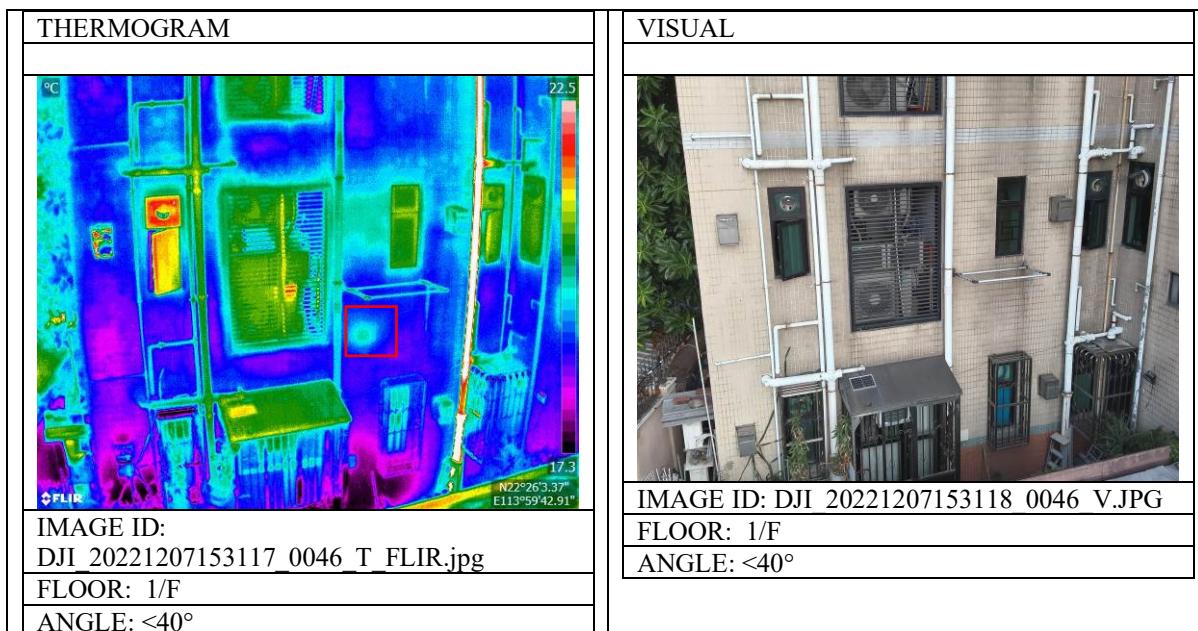
INSPECTED AREA

ELEVATION D



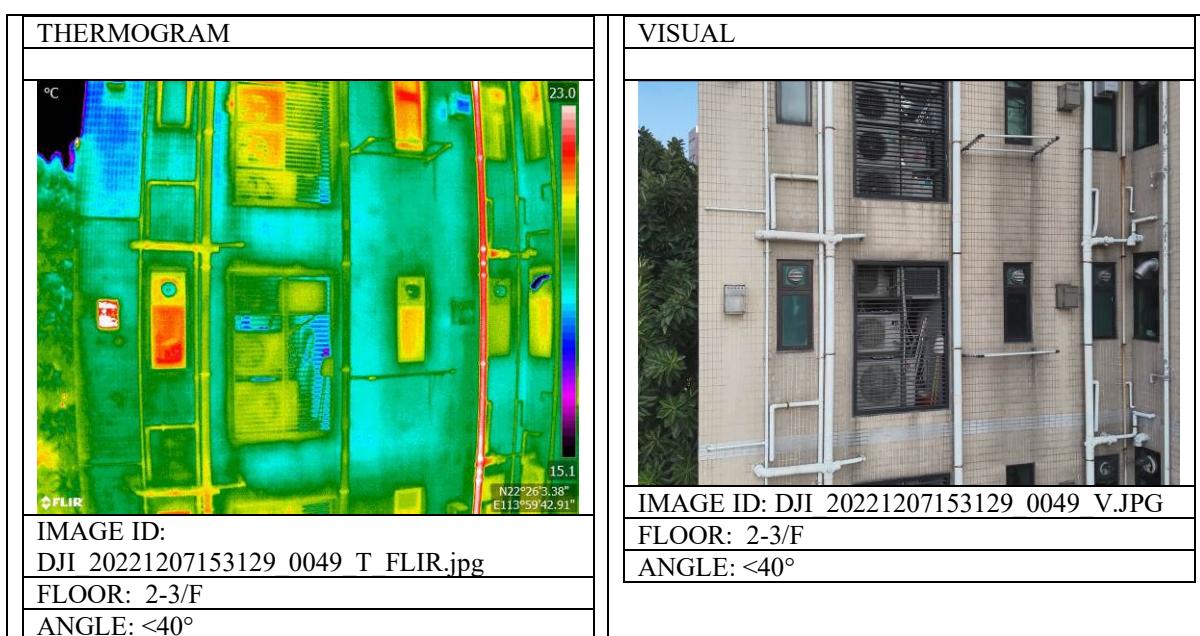
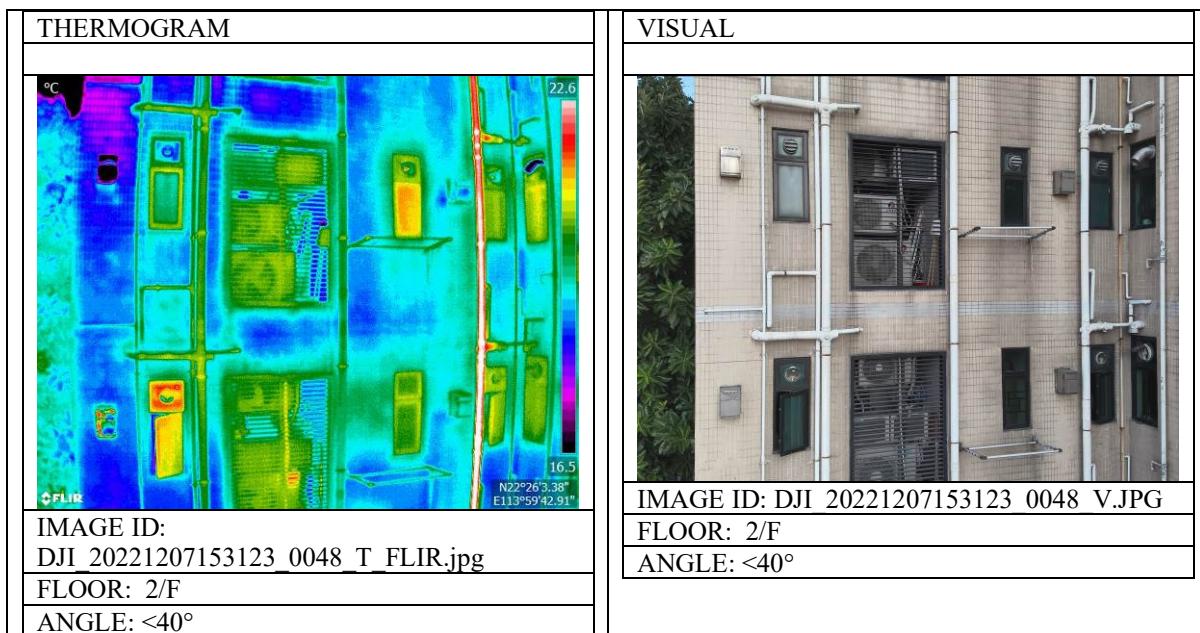
INSPECTED AREA

ELEVATION D



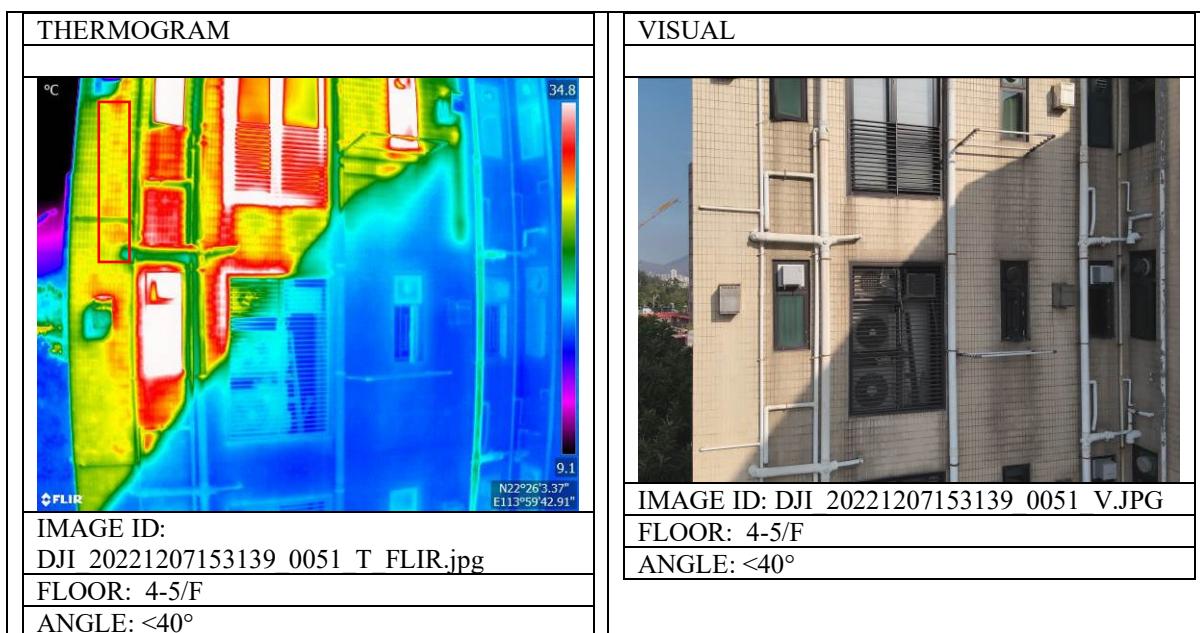
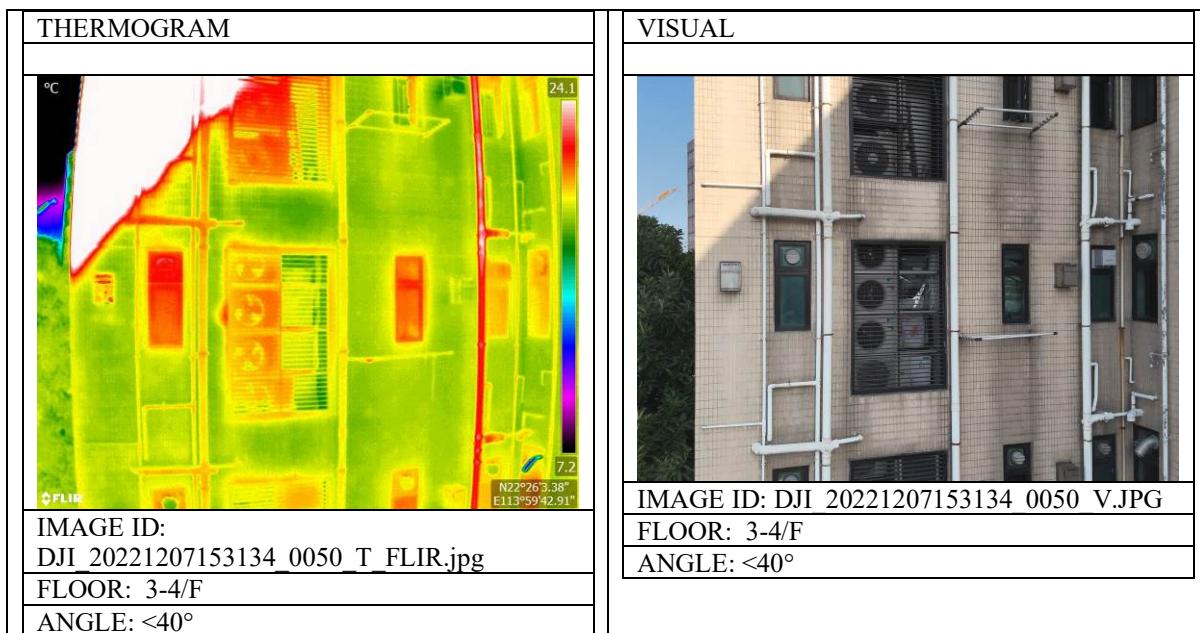
INSPECTED AREA

ELEVATION D

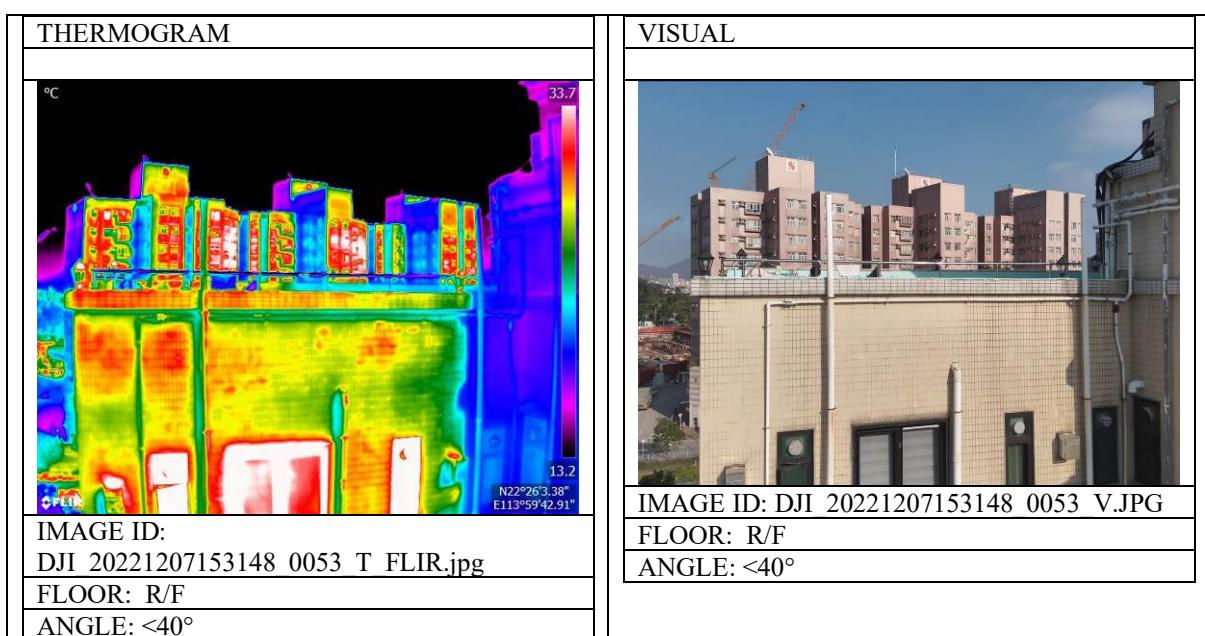
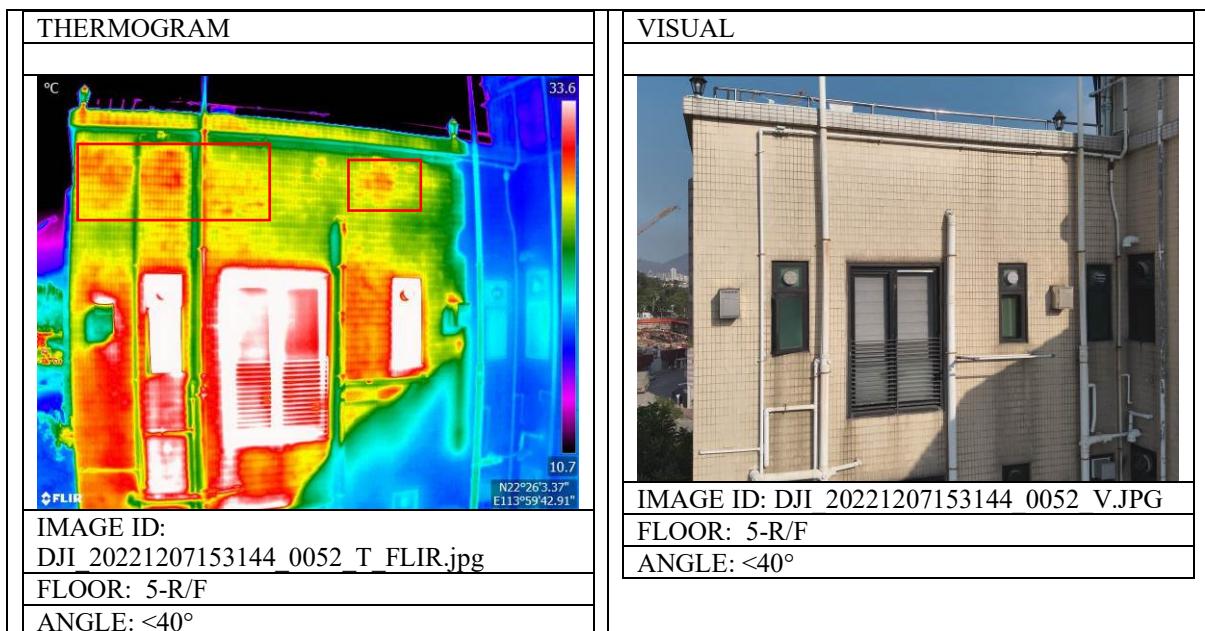


INSPECTED AREA

ELEVATION D

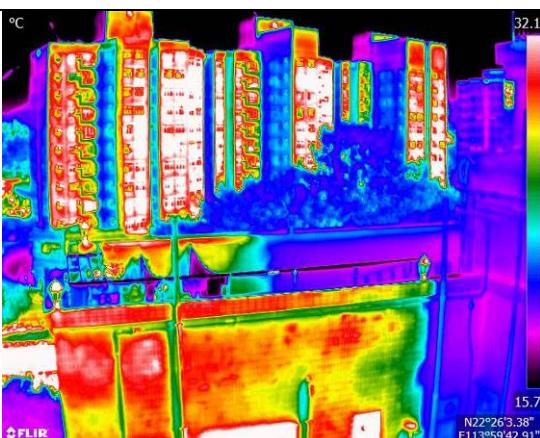


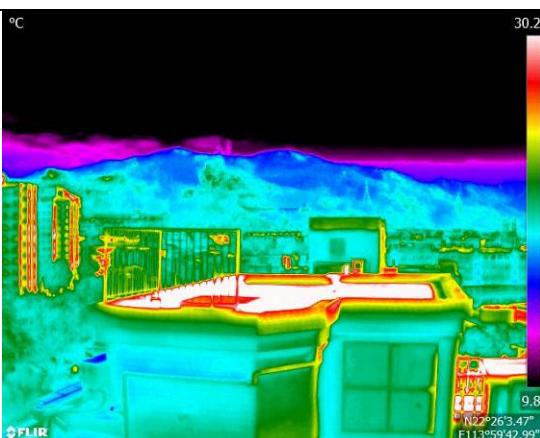
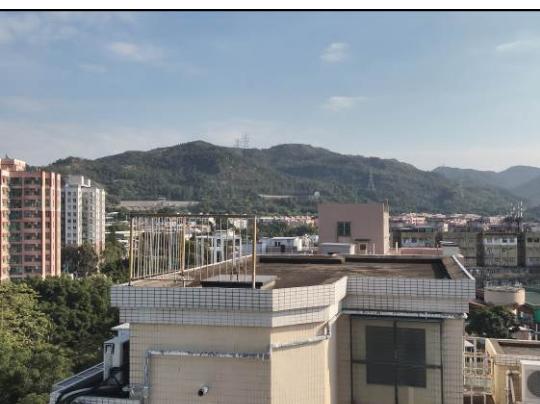
INSPECTED AREA	ELEVATION D
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INSPECTED AREA

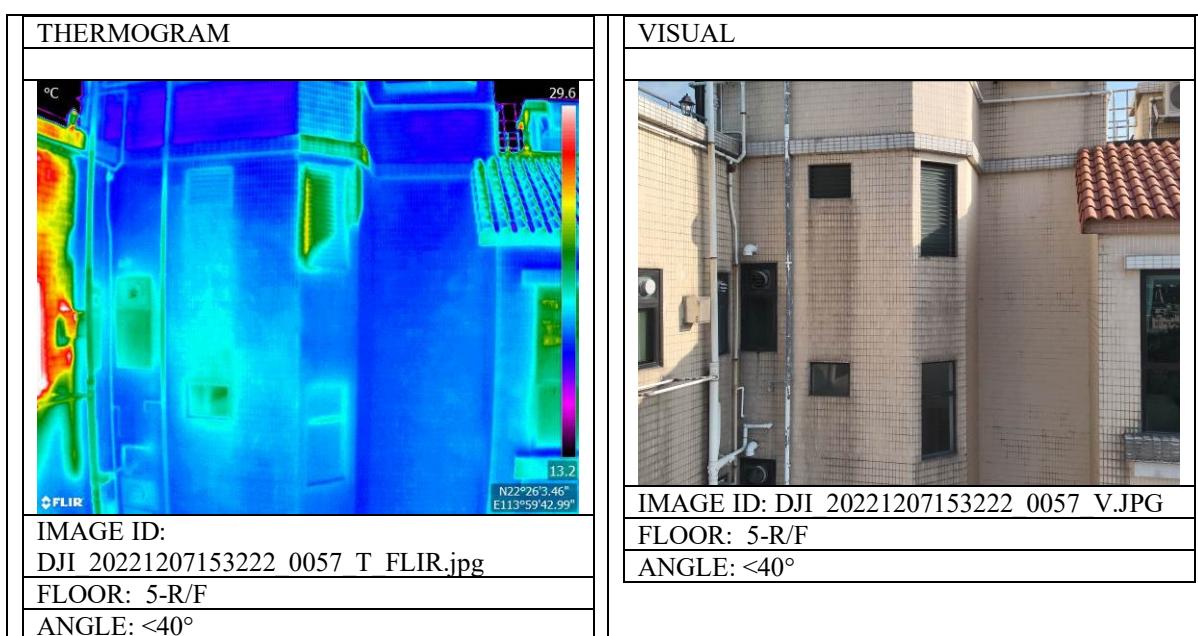
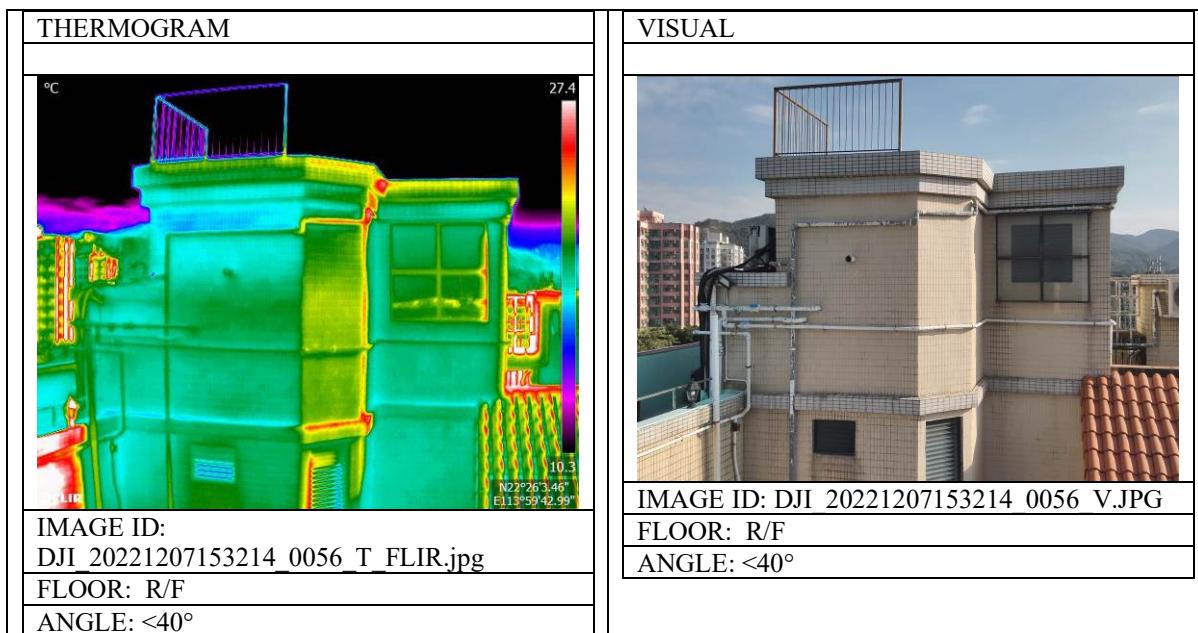
ELEVATION D

THERMOGRAM	VISUAL
	
IMAGE ID: <u>DJI_20221207153152_0054_T_FLIR.jpg</u>	IMAGE ID: DJI_20221207153152_0054_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: <u>DJI_20221207153207_0055_T_FLIR.jpg</u>	IMAGE ID: DJI_20221207153208_0055_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

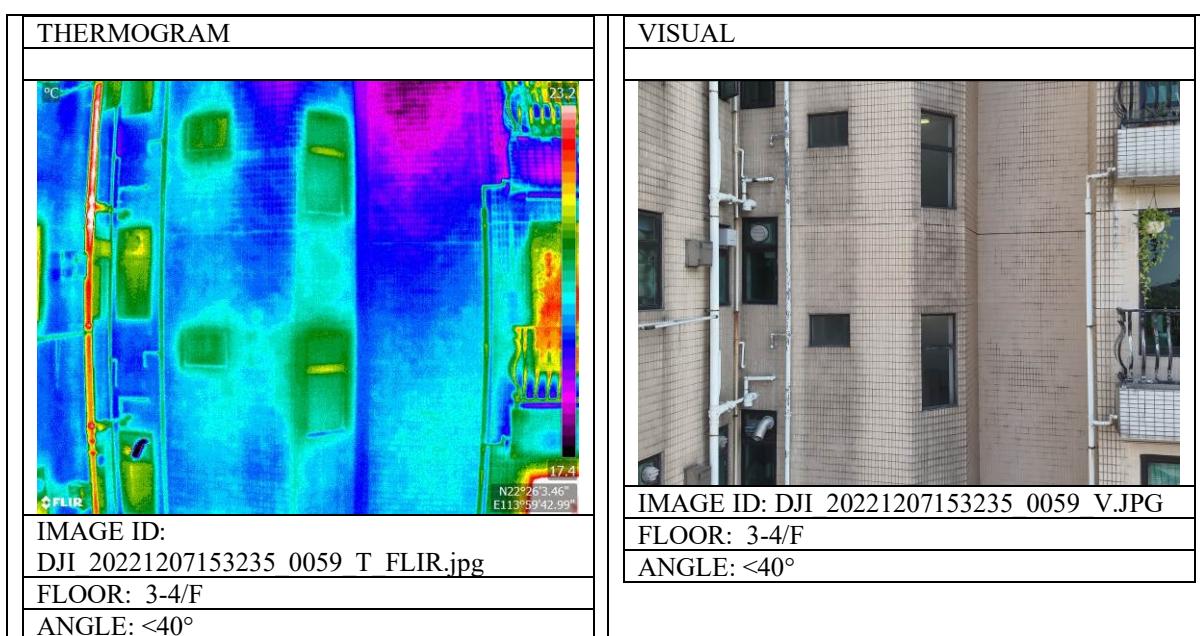
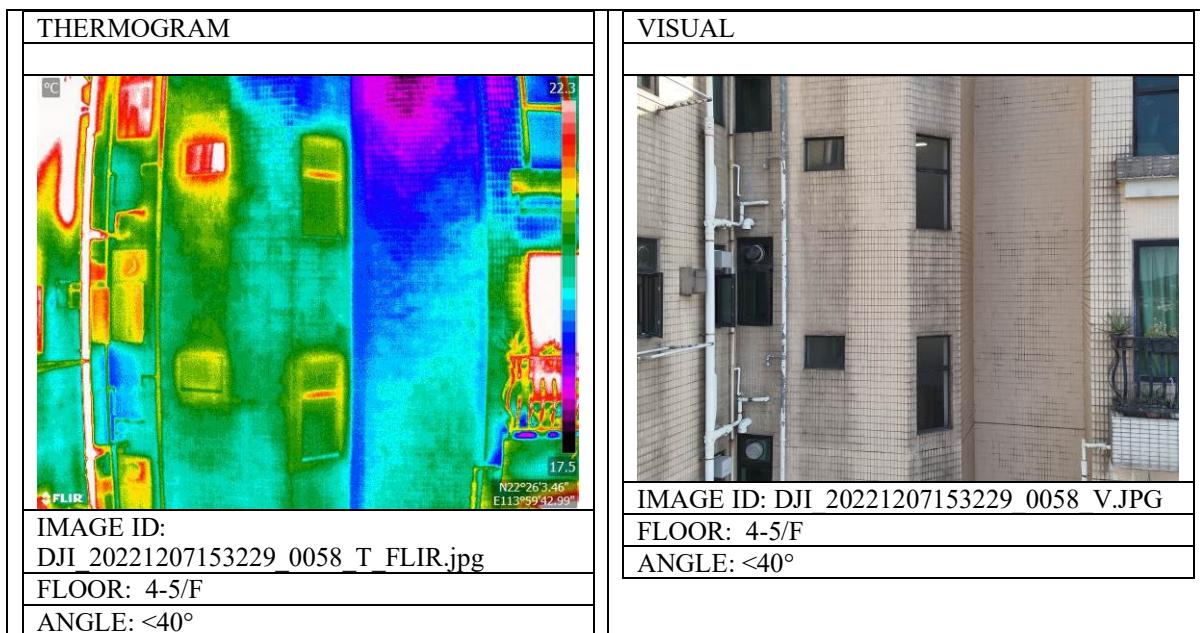
INSPECTED AREA

ELEVATION D

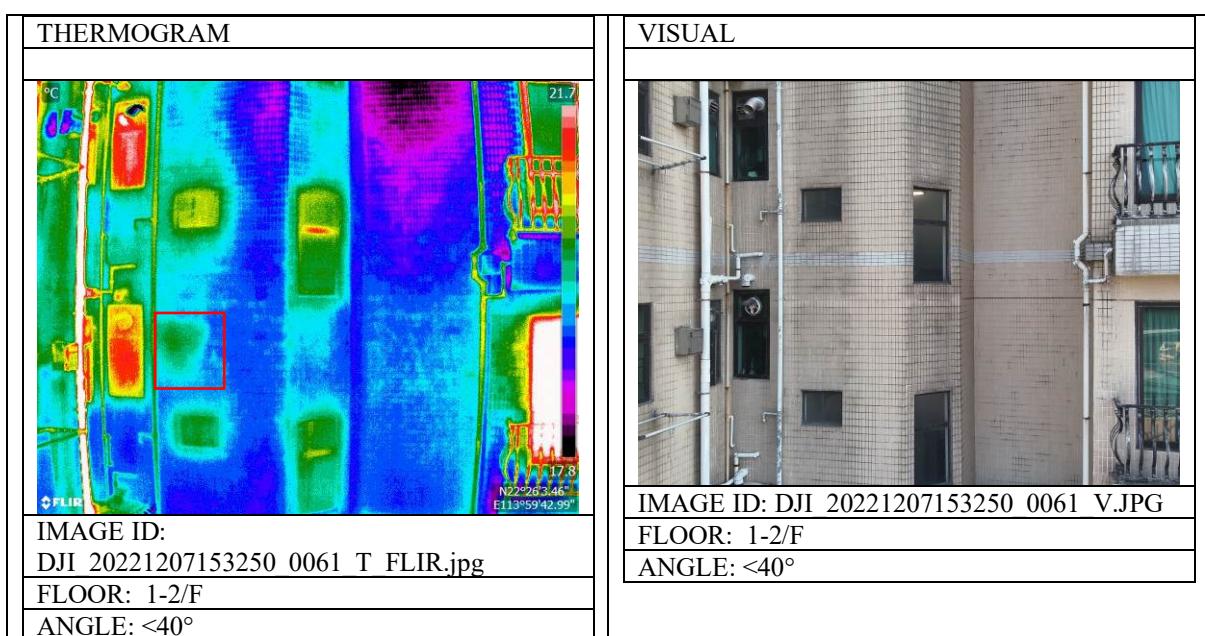
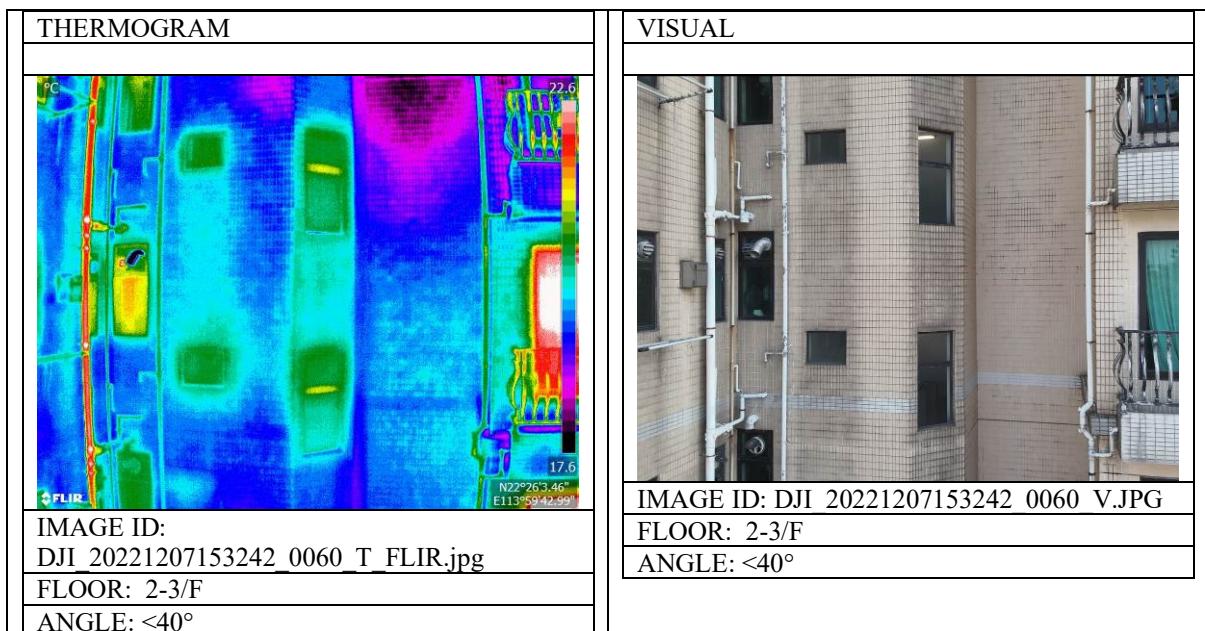


INSPECTED AREA

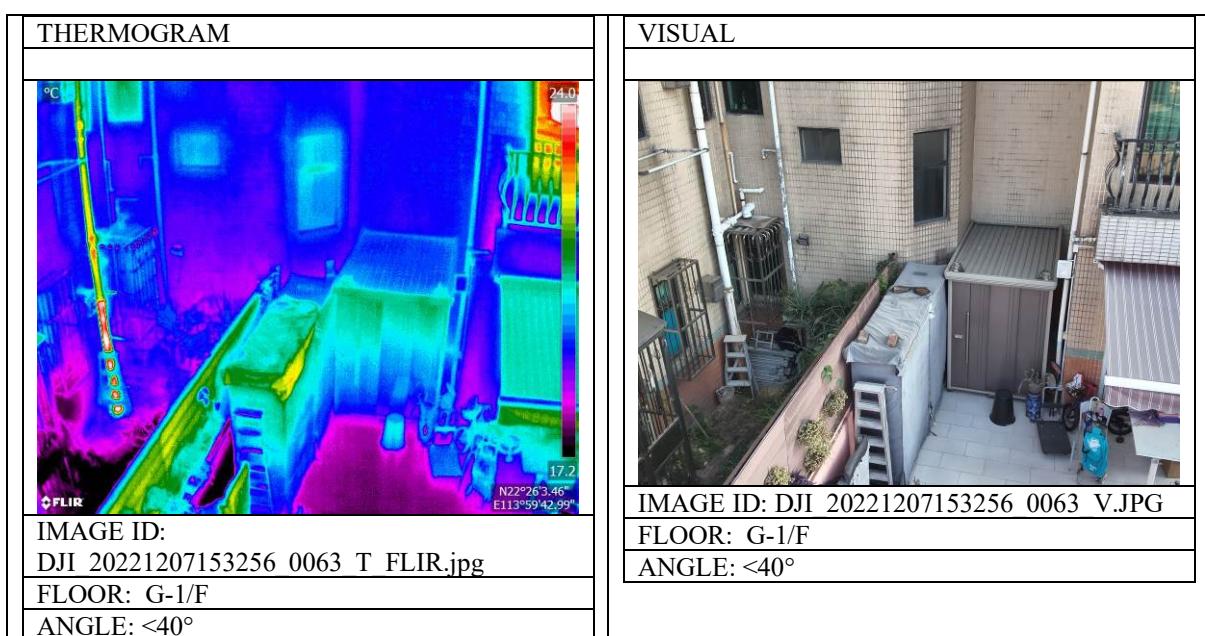
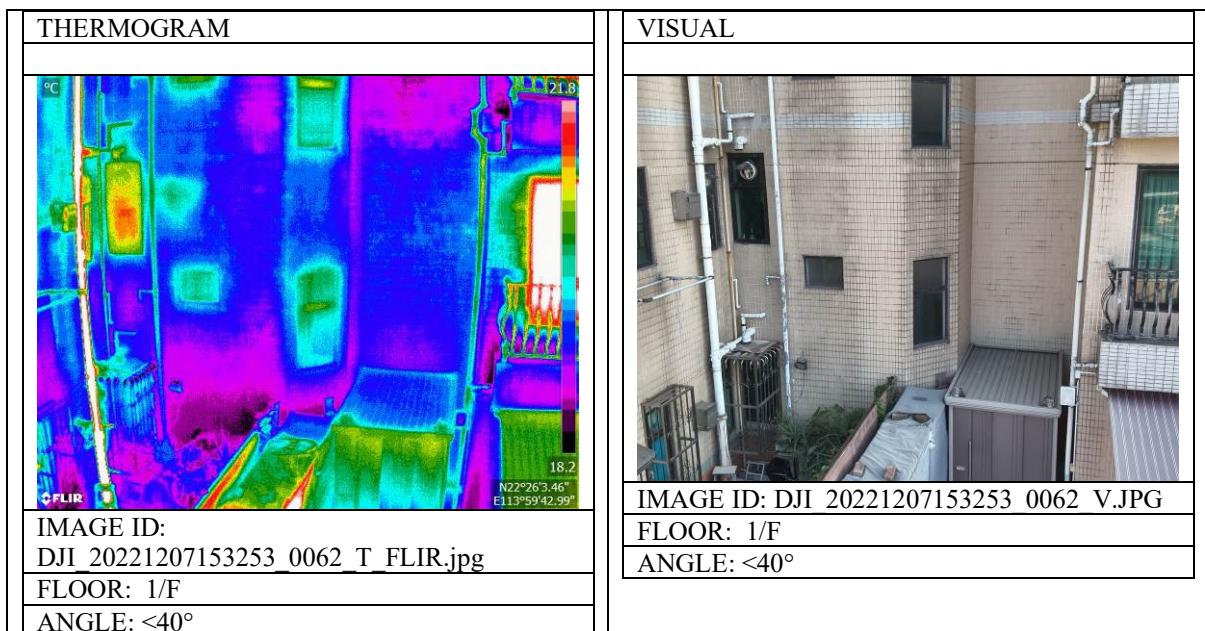
ELEVATION D



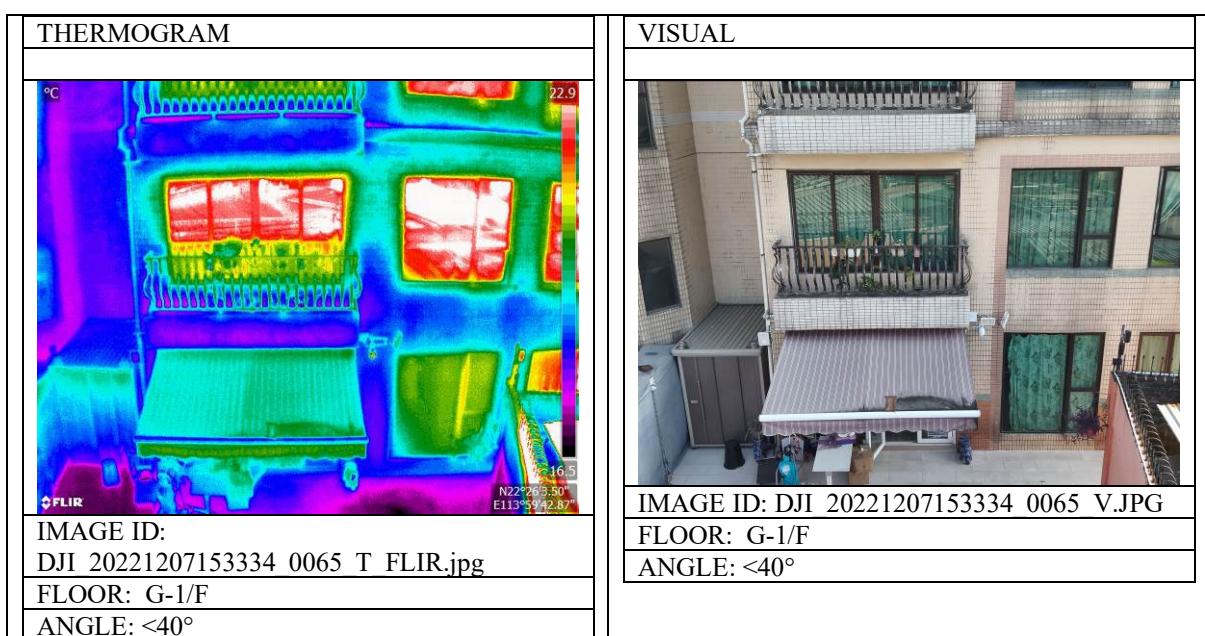
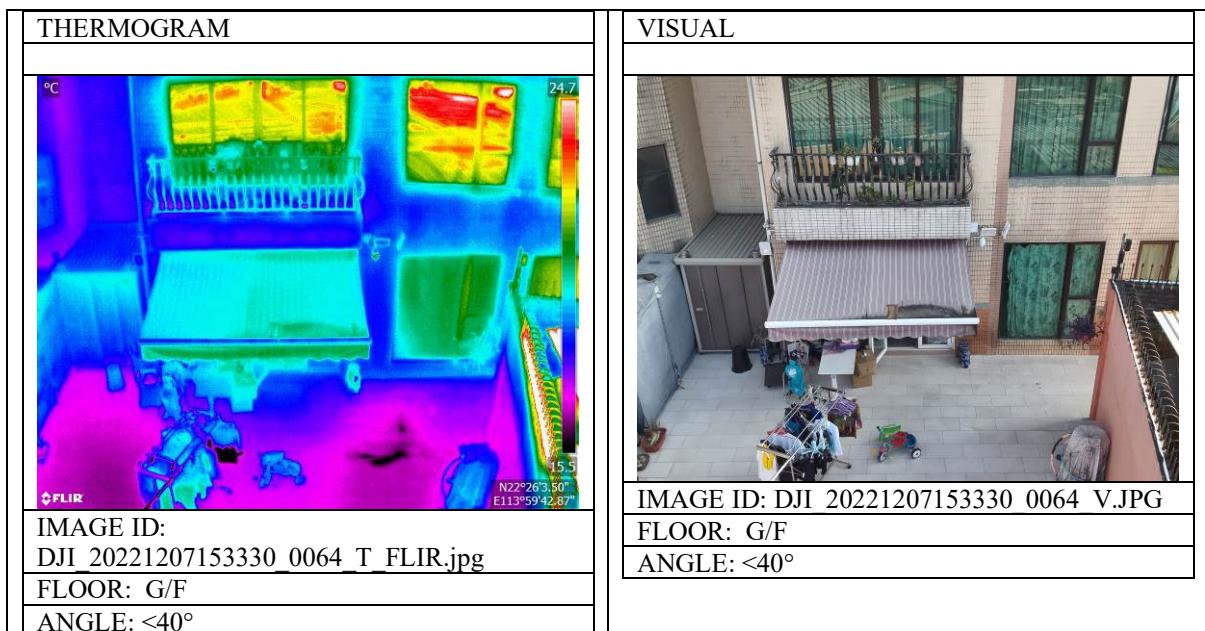
INSPECTED AREA	ELEVATION D
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INSPECTED AREA	ELEVATION D
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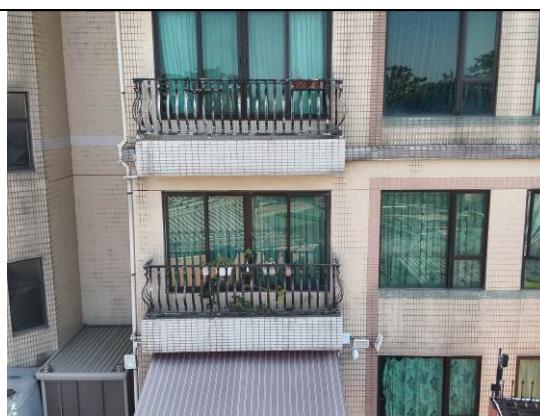


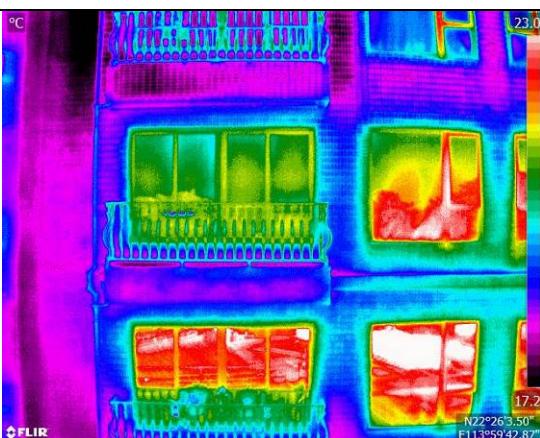
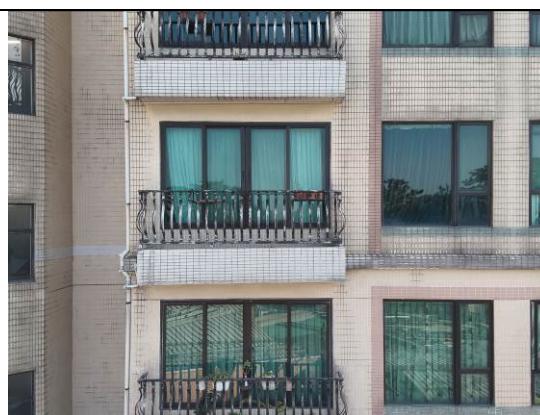
INSPECTED AREA	ELEVATION D
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INSPECTED AREA

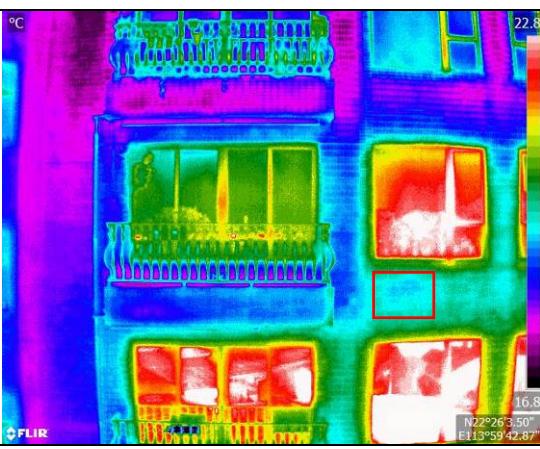
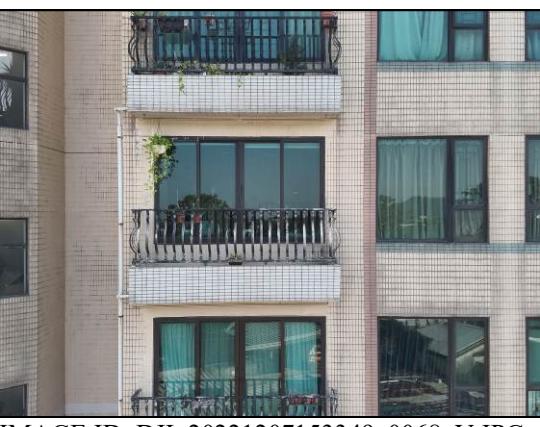
ELEVATION D

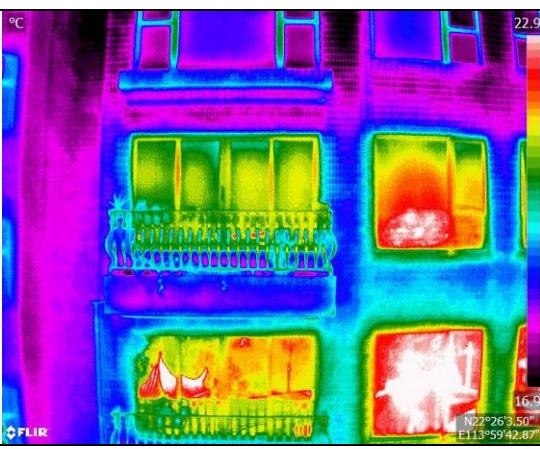
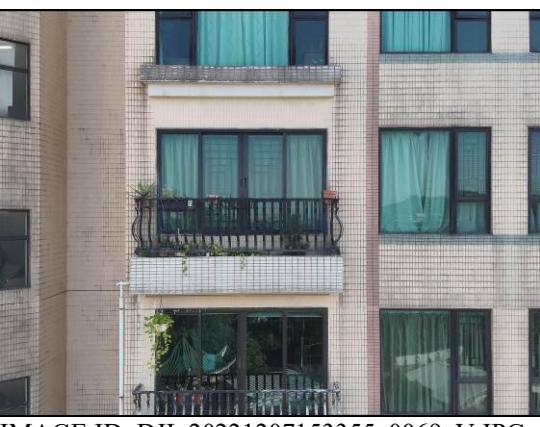
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153337_0066_T_FLIR.jpg	IMAGE ID: DJI_20221207153338_0066_V.JPG
FLOOR: 1/F	FLOOR: 1/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153341_0067_T_FLIR.jpg	IMAGE ID: DJI_20221207153341_0067_V.JPG
FLOOR: 2/F	FLOOR: 2/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA

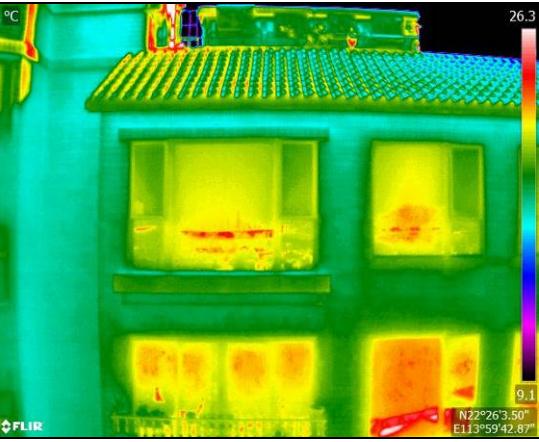
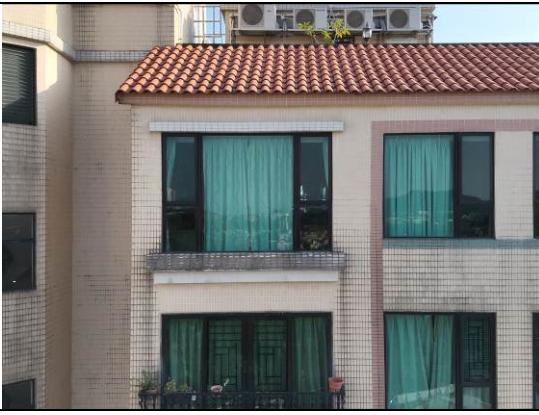
ELEVATION D

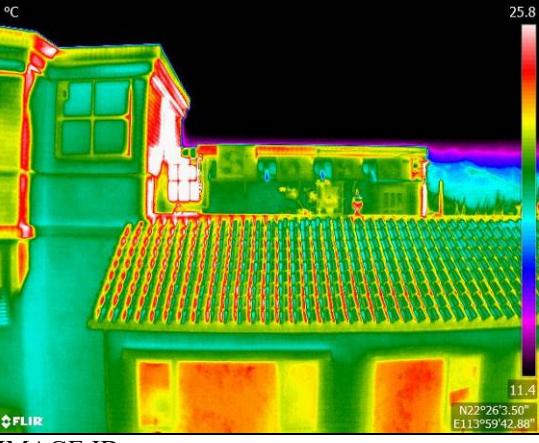
THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153349_0068_T_FLIR.jpg	IMAGE ID: DJI_20221207153349_0068_V.JPG
FLOOR: 3/F	FLOOR: 3/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153355_0069_T_FLIR.jpg	IMAGE ID: DJI_20221207153355_0069_V.JPG
FLOOR: 4/F	FLOOR: 4/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA

ELEVATION D

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153401_0070_T_FLIR.jpg	IMAGE ID: DJI_20221207153401_0070_V.JPG
FLOOR: 5/F	FLOOR: 5/F
ANGLE: <40°	ANGLE: <40°

THERMOGRAM	VISUAL
	
IMAGE ID: DJI_20221207153407_0071_T_FLIR.jpg	IMAGE ID: DJI_20221207153407_0071_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

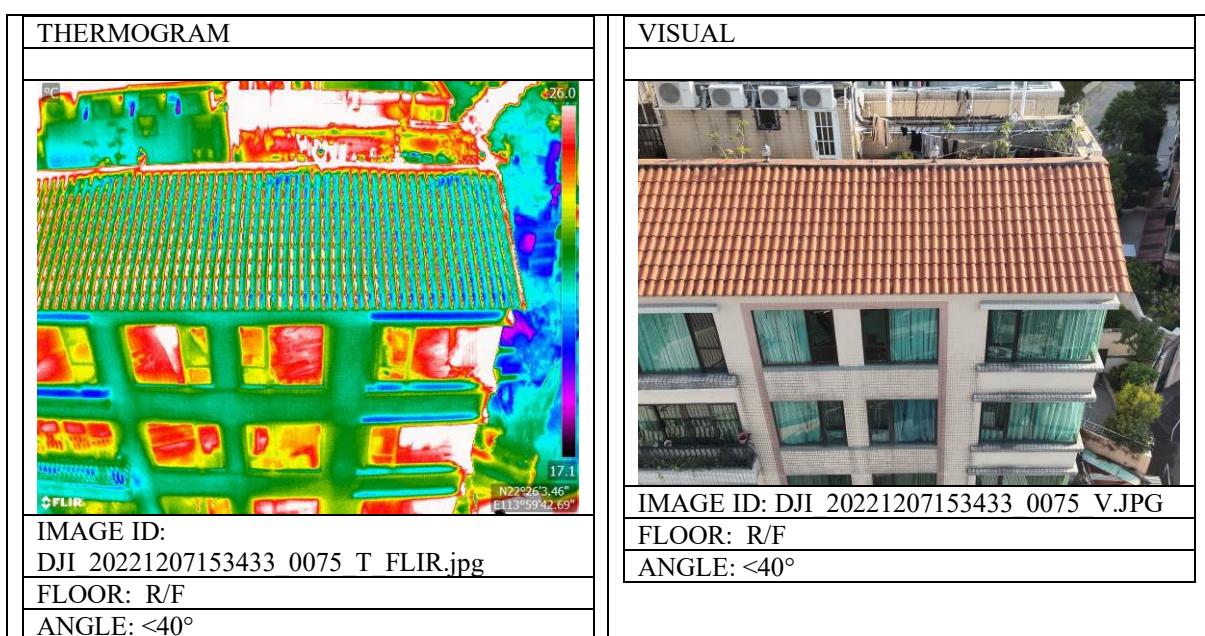
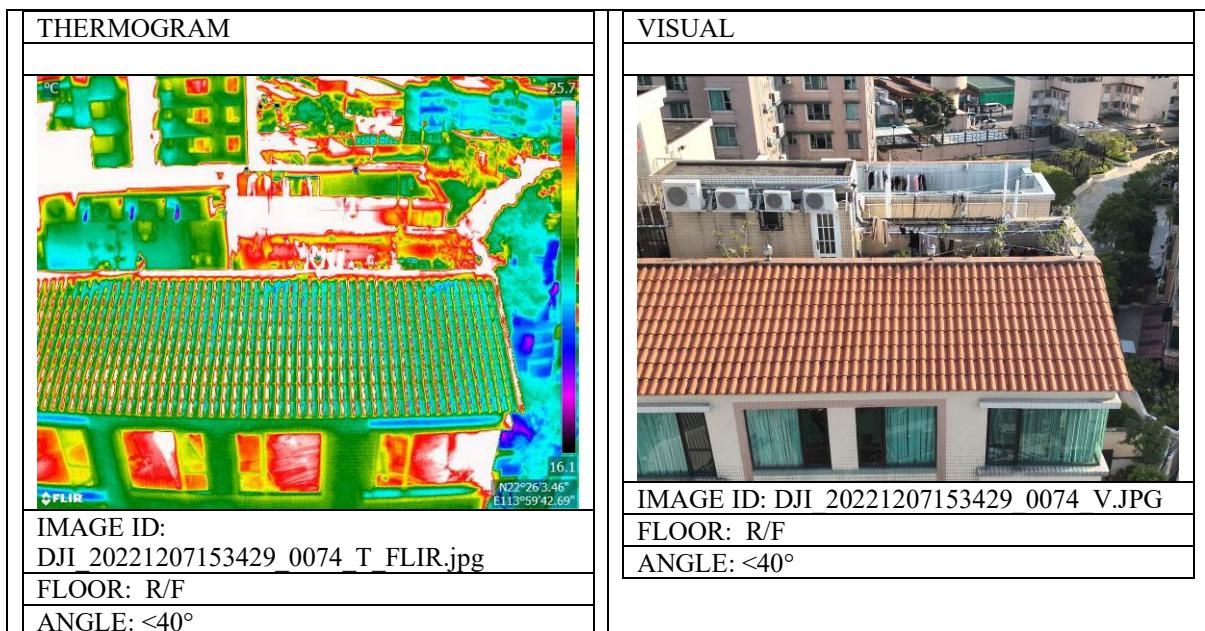
INSPECTED AREA

ELEVATION D

THERMOGRAM	VISUAL
IMAGE ID: <u>DJI_20221207153415_0072_T_FLIR.jpg</u>	IMAGE ID: DJI_20221207153415_0072_V.JPG
FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

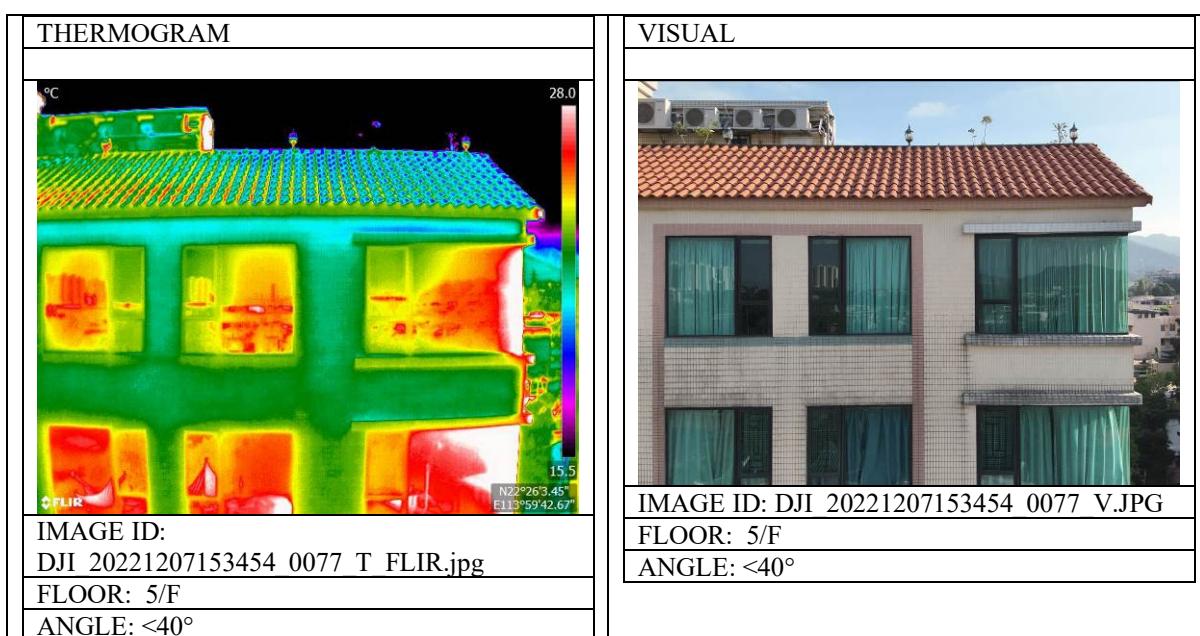
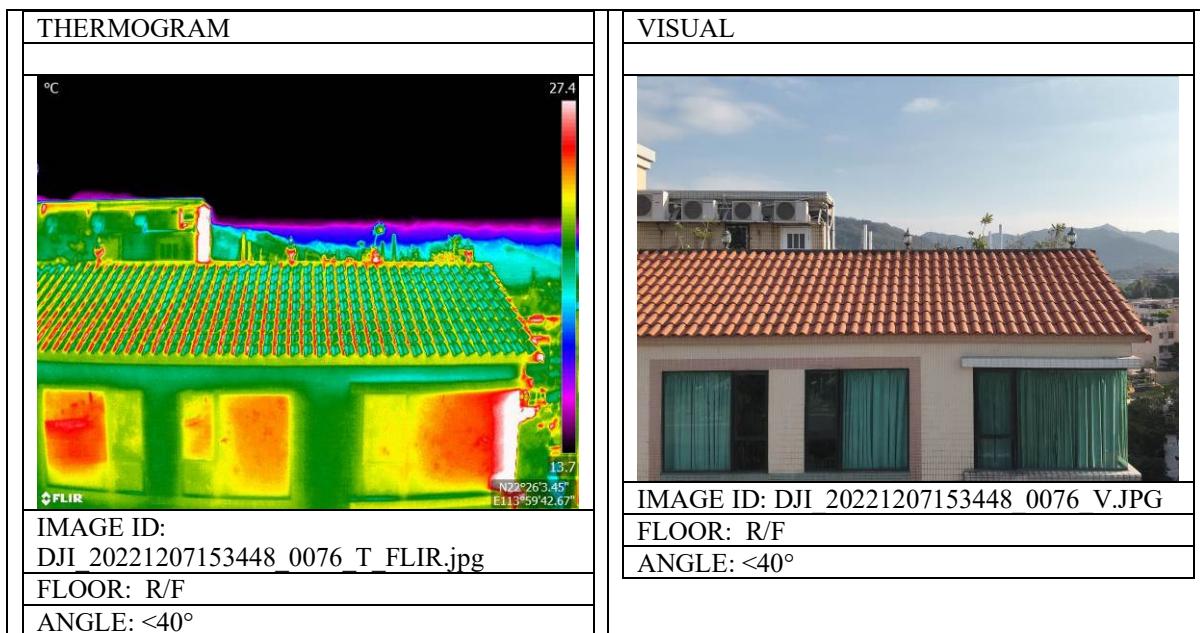
THERMOGRAM	VISUAL
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FLOOR: R/F	FLOOR: R/F
ANGLE: <40°	ANGLE: <40°

INSPECTED AREA	ELEVATION D
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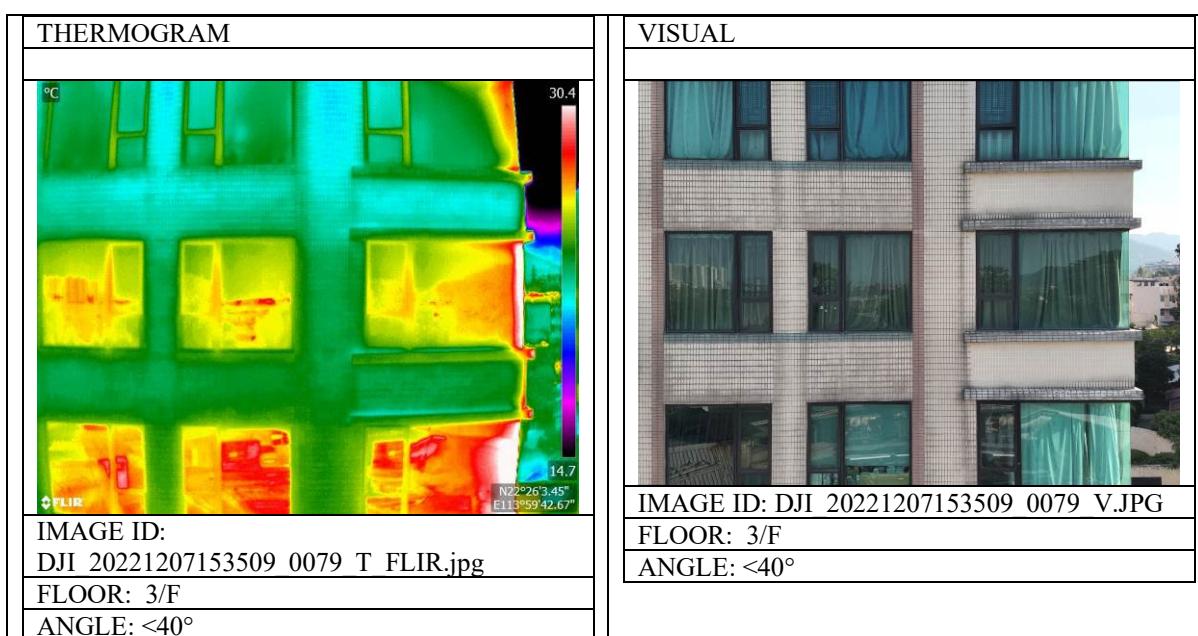
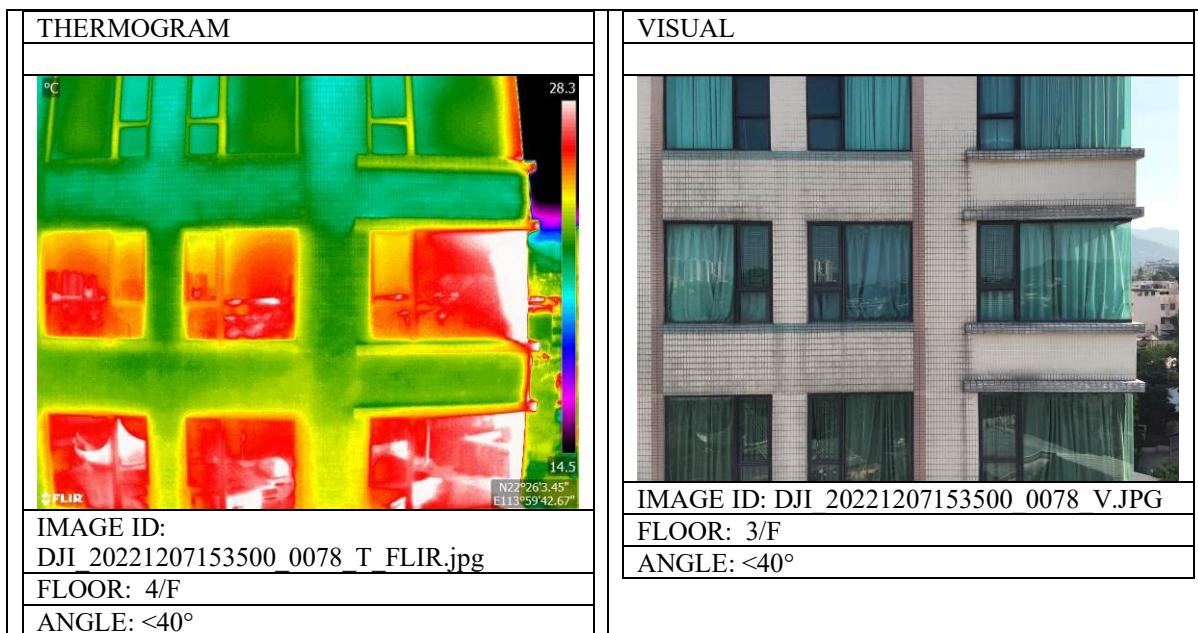
INSPECTED AREA

ELEVATION D



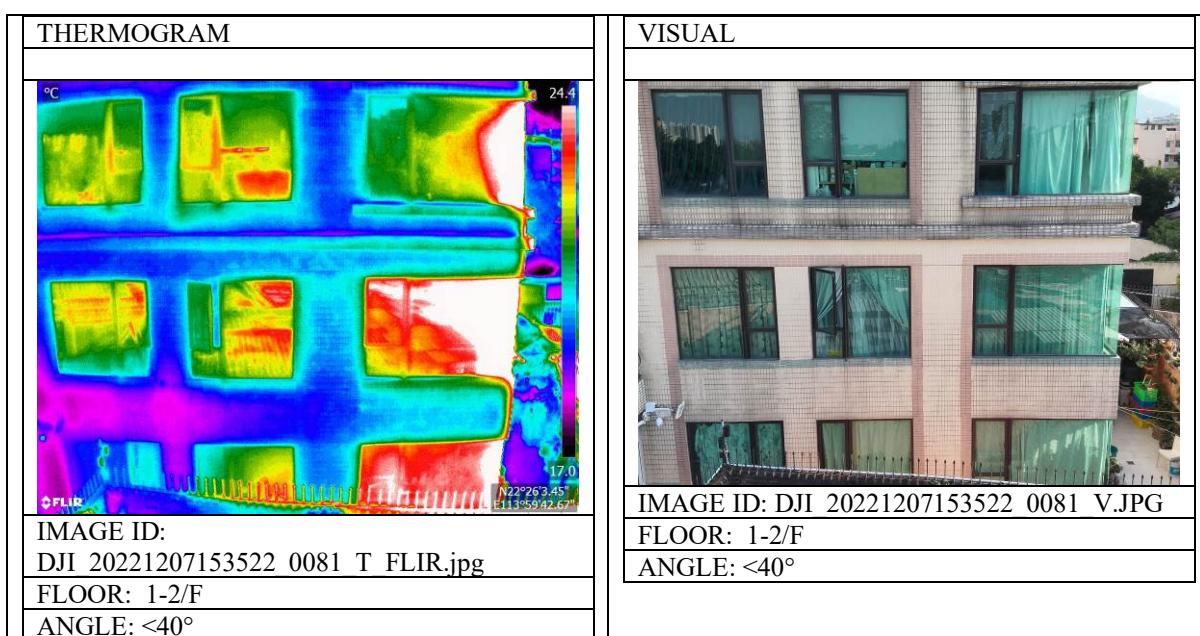
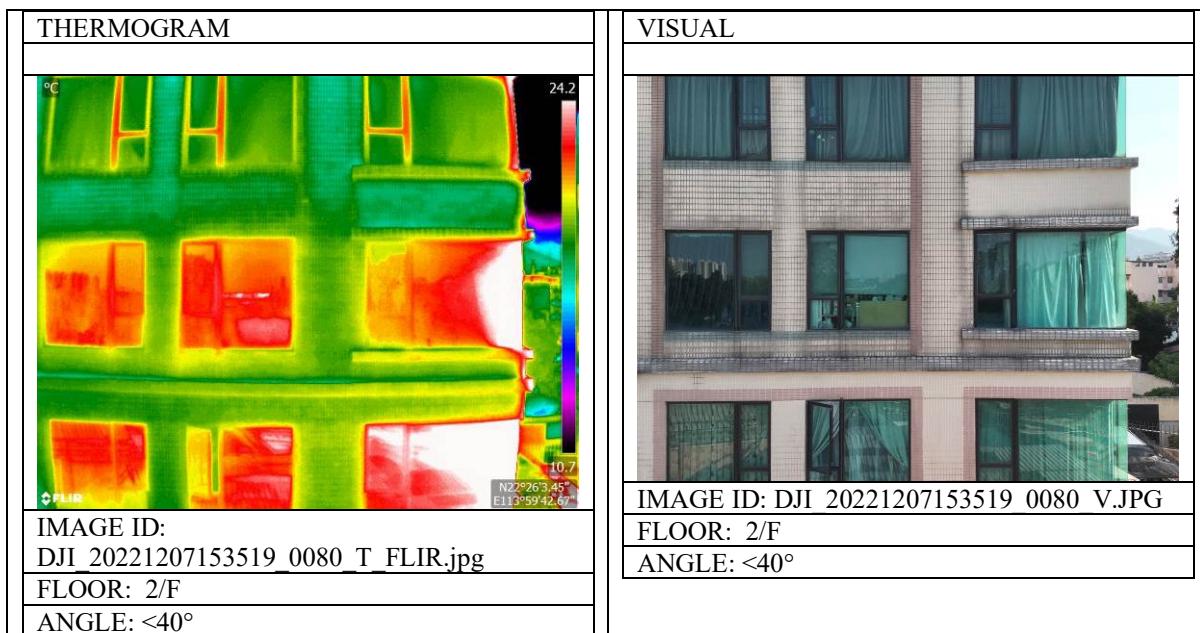
INSPECTED AREA

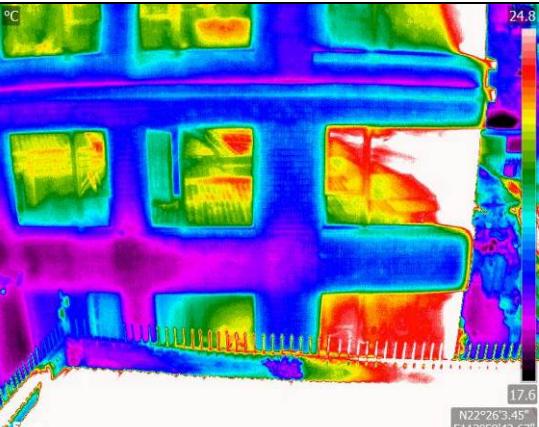
ELEVATION D



INSPECTED AREA

ELEVATION D



INSPECTED AREA	ELEVATION D
THERMOGRAM	VISUAL
 <p>°C 24.8 17.6 N22°26'3.45" E113°59'42.67"</p>	
IMAGE ID: <u>DJI_20221207153526_0082_T_FLIR.jpg</u>	IMAGE ID: DJI_20221207153526_0082_V.JPG
FLOOR: 1/F	FLOOR: 1/F
ANGLE: <40°	ANGLE: <40°