

# OTDR Report (1310 nm (9 μm))

## General Information

|            |                          |           |            |
|------------|--------------------------|-----------|------------|
| File name: | 23_1310.trc              | Customer: | ADNOC      |
| Test date: | 14-Feb-24                | Company:  | PAN ARABIA |
| Test time: | 3:57 PM                  | Fiber ID: | 23         |
| Cable ID:  | FAR5 to SS6A (C) A (A-B) |           |            |
| Job ID:    | 0500831                  |           |            |
| Comments:  | END TO END TEST          |           |            |

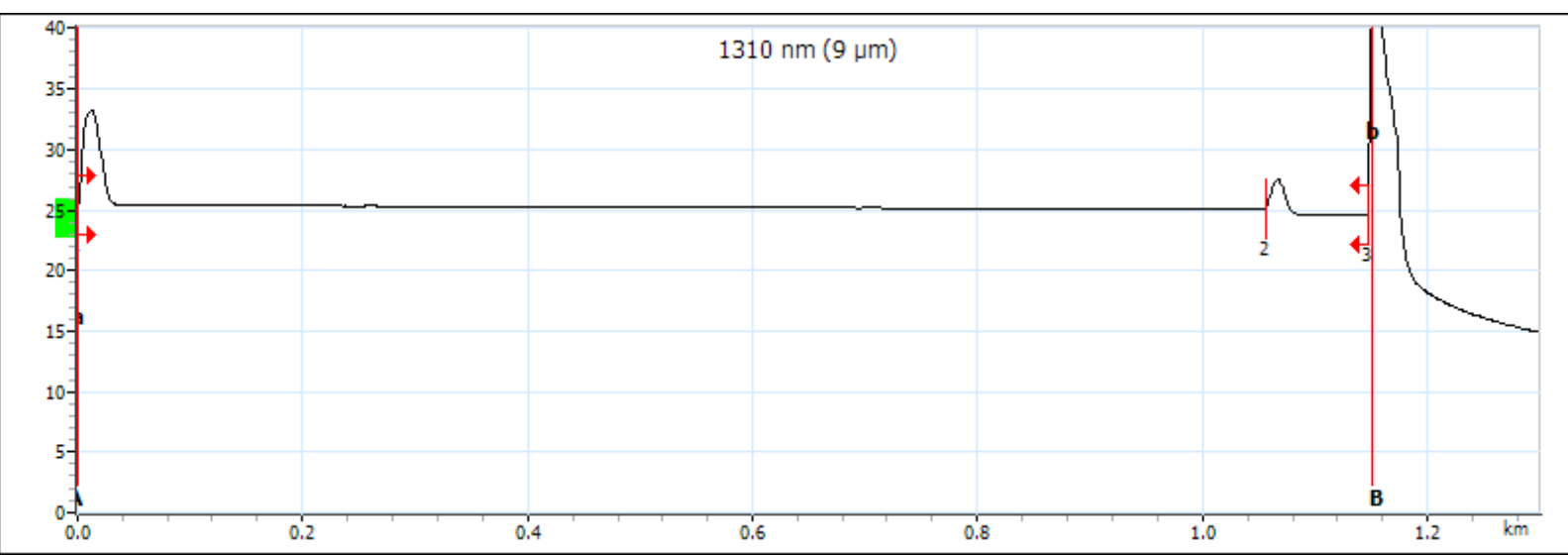
## Locations

|                  | Location A        | Location B |
|------------------|-------------------|------------|
| Location         | FAR5              | SS6A       |
| Operator         | PANDA             | HABEEB     |
| Model            | MAX-720C-Q1-EA-EI |            |
| Serial number    | 1206159           |            |
| Calibration date | 29-Mar-23 (UTC)   |            |

## Results

|              |           |                      |             |                  |         |
|--------------|-----------|----------------------|-------------|------------------|---------|
| Span length: | 1.1474 km | Average loss:        | 0.715 dB/km | Injection level: | 25.4 dB |
| Span loss:   | 0.820 dB  | Average splice loss: | ---         |                  |         |
| Span ORL:    | 39.44 dB  | Maximum splice loss: | ---         |                  |         |

## Graph



## Markers

| Marker | Position (km) | Value (dB) | A-B LSA attenuation: | 0.865 dB/km | A-B average loss:    | -13.314 dB/km |
|--------|---------------|------------|----------------------|-------------|----------------------|---------------|
| a      | 0.0000        | 25.414     | A-B LSA loss:        | 0.994 dB    | 4-point Event Loss:  | -15.717 dB    |
| A      | 0.0000        | 25.414     | A-B ORL:             | 37.70 dB    | Maximum reflectance: | -41.8 dB      |
| B      | 1.1502        | 40.729     |                      |             |                      |               |
| b      | 1.1502        | 40.729     |                      |             |                      |               |

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## Event Table

| Type            | No. | Pos./Length (km) | Loss (dB) | Reflectance (dB) | Attenuation (dB/km) | Cumulative (dB) |
|-----------------|-----|------------------|-----------|------------------|---------------------|-----------------|
| First Connector | 1   | 0.0000           | ---       | -43.7            |                     | 0.000           |
| Section         |     | 1.0567           | 0.364     |                  | 0.345               | 0.364           |
| Reflective      | 2   | 1.0567           | 0.402     | -56.0            |                     | 0.767           |
| Section         |     | 0.0906           | 0.053     |                  | 0.589               | 0.820           |
| Reflective      | 3   | 1.1474           | ---       | > -25.0          |                     | 0.820           |

## Macrobend

| Position (km) | Delta Loss (dB) |
|---------------|-----------------|
|               |                 |

## Pass/Fail Thresholds

|  | 1310 nm (9 μm) |
|--|----------------|
|  |                |

## Test Parameters

|                 | A → B          |
|-----------------|----------------|
| Wavelength (nm) | 1310 nm (9 μm) |
| Range (km)      | 1.3000         |
| Pulse (ns)      | 100            |
| Duration (s)    | 5              |

## Test Settings

|                                       | A → B    | Macrobend Wavelengths | Macrobend Delta Loss (dB) |
|---------------------------------------|----------|-----------------------|---------------------------|
| IOR                                   | 1.467700 |                       |                           |
| Backscatter (dB)                      | -79.45   |                       |                           |
| Helix factor (%)                      | 0.00     |                       |                           |
| Splice loss detection threshold (dB)  | 0.020    |                       |                           |
| Reflectance detection threshold (dB)  | -72.0    |                       |                           |
| End-of-fiber detection threshold (dB) | 5.000    |                       |                           |

# OTDR Report (1550 nm (9 μm))

## General Information

|            |                          |           |            |
|------------|--------------------------|-----------|------------|
| File name: | 23_1550.trc              | Customer: | ADNOC      |
| Test date: | 14-Feb-24                | Company:  | PAN ARABIA |
| Test time: | 3:57 PM                  | Fiber ID: | 23         |
| Cable ID:  | FAR5 to SS6A (C) A (A-B) |           |            |
| Job ID:    | 0500831                  |           |            |
| Comments:  | END TO END TEST          |           |            |

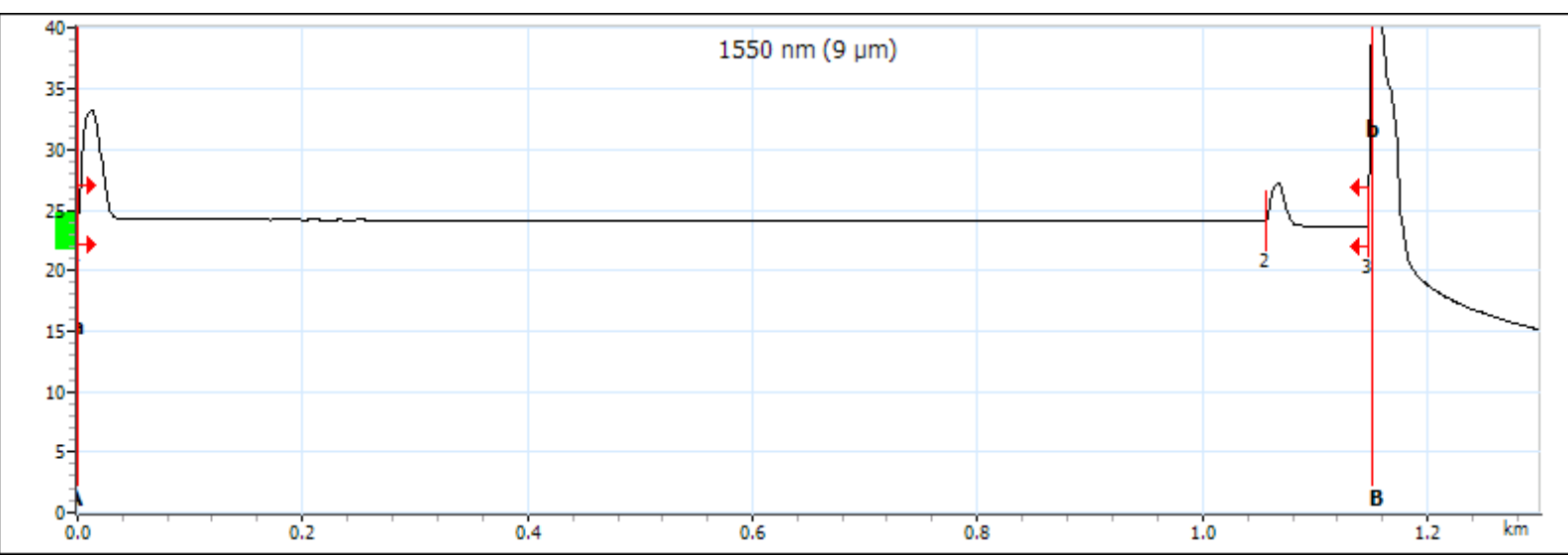
## Locations

|                  | Location A        | Location B |
|------------------|-------------------|------------|
| Location         | FAR5              | SS6A       |
| Operator         | PANDA             | HABEEB     |
| Model            | MAX-720C-Q1-EA-EI |            |
| Serial number    | 1206159           |            |
| Calibration date | 29-Mar-23 (UTC)   |            |

## Results

|              |           |                      |             |                  |         |
|--------------|-----------|----------------------|-------------|------------------|---------|
| Span length: | 1.1472 km | Average loss:        | 0.489 dB/km | Injection level: | 24.2 dB |
| Span loss:   | 0.561 dB  | Average splice loss: | ---         |                  |         |
| Span ORL:    | 41.62 dB  | Maximum splice loss: | ---         |                  |         |

## Graph



## Markers

| Marker | Position (km) | Value (dB) | A-B LSA attenuation: | 0.742 dB/km | A-B average loss:    | -14.163 dB/km |
|--------|---------------|------------|----------------------|-------------|----------------------|---------------|
| a      | 0.0000        | 24.682     | A-B LSA loss:        | 0.854 dB    | 4-point Event Loss:  | -16.521 dB    |
| A      | 0.0000        | 24.682     | A-B ORL:             | <37.88 dB   | Maximum reflectance: | > -28.6 dB    |
| B      | 1.1502        | 40.973     |                      |             |                      |               |
| b      | 1.1502        | 40.973     |                      |             |                      |               |

# OTDR Report (1550 nm (9 μm))

## Event Table

| Type            | No. | Pos./Length (km) | Loss (dB) | Reflectance (dB) | Attenuation (dB/km) | Cumulative (dB) |
|-----------------|-----|------------------|-----------|------------------|---------------------|-----------------|
| First Connector | 1   | 0.0000           | ---       | -43.7            |                     | 0.000           |
| Section         |     | 1.0566           | 0.200     |                  | 0.190               | 0.200           |
| Reflective      | 2   | 1.0566           | 0.328     | -56.5            |                     | 0.529           |
| Section         |     | 0.0906           | 0.033     |                  | 0.363               | 0.561           |
| Reflective      | 3   | 1.1472           | ---       | > -25.2          |                     | 0.561           |

## Macrobend

| Position (km) | Delta Loss (dB) |
|---------------|-----------------|
|               |                 |

## Pass/Fail Thresholds

|  | 1550 nm (9 μm) |
|--|----------------|
|  |                |

## Test Parameters

|                 | A → B          |
|-----------------|----------------|
| Wavelength (nm) | 1550 nm (9 μm) |
| Range (km)      | 1.3000         |
| Pulse (ns)      | 100            |
| Duration (s)    | 5              |

## Test Settings

|                                       | A → B    | Macrobend Wavelengths | Macrobend Delta Loss (dB) |
|---------------------------------------|----------|-----------------------|---------------------------|
| IOR                                   | 1.468325 |                       |                           |
| Backscatter (dB)                      | -81.87   |                       |                           |
| Helix factor (%)                      | 0.00     |                       |                           |
| Splice loss detection threshold (dB)  | 0.020    |                       |                           |
| Reflectance detection threshold (dB)  | -72.0    |                       |                           |
| End-of-fiber detection threshold (dB) | 5.000    |                       |                           |