

## PCIe 4.0 TX Test Report

**Overall result: Fail**

DUT: JS-S02  
Comment: HW MB all preset  
Time of session start: 04/14/2025 19:10:48  
Operator: Aetina-Kevin  
Temperature: 22° C  
Standard in use: PCIe 4.0 TX

Session ID: 47, Continuation #: 1:

Time of run: 2025/04/14 19:10:50  
Configuration in use: System TX ,Gen3-4,All Preset  
Limits in use: Default  
Oscilloscope Name: LCRY3324N75647 Model: MCM-ZI-A  
Oscilloscope Serial #: LCRY3324N75647  
Computer: LCRY3324N75647  
Oscilloscope firmware version: 11.0.0.3 (Build 400548)  
QualiPHY core version: 11.0.0.5 (Build 400840)

QualiPHY script version: 11.0.0.5  
Stylesheet version: 1.2.0.8  
Acquisition module(s): LCRY2764N75659 - 25 GHz  
DUT Type: System  
AcquireLiveData: True  
SignalsDifferential: False  
SignalSourceP: C1  
SignalSourceN: C2  
SigTest version: 16G: 4.0.52, 8G: 3.2.0.3  
Waveform path on oscilloscope: D:\Waveforms\PCIe4\TX\JS-S02

# Summary Table

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| Pass | # | Test | Measurement                          | Current Value | Test Criteria |
|------|---|------|--------------------------------------|---------------|---------------|
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P4</a>  | Pass          | match         |
| ✗    | 1 | 8.0  | <a href="#">16G Preset test- P1</a>  | Fail          | match         |
| ✗    | 1 | 8.0  | <a href="#">16G Preset test- P0</a>  | Fail          | match         |
| ✗    | 1 | 8.0  | <a href="#">16G Preset test- P9</a>  | Fail          | match         |
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P8</a>  | Pass          | match         |
| ✗    | 1 | 8.0  | <a href="#">16G Preset test- P7</a>  | Fail          | match         |
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P5</a>  | Pass          | match         |
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P6</a>  | Pass          | match         |
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P3</a>  | Pass          | match         |
| ✓    | 1 | 8.0  | <a href="#">16G Preset test- P2</a>  | Pass          | match         |
| ✗    | 1 | 8.0  | <a href="#">16G Preset test- P10</a> | Fail          | match         |

# Details

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| <br><b>Pass</b> | Measurement: <b>16G Preset test- P4</b>                                                        |                         |
|                                                                                                  | Current Value: Pass                                                                            | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                 | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 1158.04 mV, De-emphasis = 0.0 dB, Preshoot = 0.0 dB |                         |

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| <br><b>Fail</b> | Measurement: <b>16G Preset test- P1</b>                                                        |                         |
|                                                                                                  | Current Value: Fail                                                                            | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                 | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 891.7 mV, De-emphasis = -2.27 dB, Preshoot = 0.0 dB |                         |

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|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------|
| <br><b>Fail</b> | Measurement: <b>16G Preset test- P0</b>                                                        |                         |
|                                                                                                  | Current Value: Fail                                                                            | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                 | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 716.1 mV, De-emphasis = -4.18 dB, Preshoot = 0.0 dB |                         |

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| <br><b>Fail</b> | Measurement: <b>16G Preset test- P9</b>                                                       |                         |
|                                                                                                  | Current Value: Fail                                                                           | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 891.6 mV, De-emphasis = 0.0 dB, Preshoot = 2.27 dB |                         |

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| <br><b>Pass</b> | Measurement: <b>16G Preset test- P8</b>                                                          |                         |
|                                                                                                    | Current Value: Pass                                                                              | Test Criteria: match    |
|                                                                                                    | Timestamp: 04/14/2025 19:19:47                                                                   | Limit Name: SigTestPass |
|                                                                                                    | Description: 16G Preset test result : Vb = 681.66 mV, De-emphasis = -2.93 dB, Preshoot = 2.93 dB |                         |

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|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------|
| <br><b>Fail</b> | Measurement: <b>16G Preset test- P7</b>                                                          |                         |
|                                                                                                    | Current Value: Fail                                                                              | Test Criteria: match    |
|                                                                                                    | Timestamp: 04/14/2025 19:19:47                                                                   | Limit Name: SigTestPass |
|                                                                                                    | Description: 16G Preset test result : Vb = 605.22 mV, De-emphasis = -4.47 dB, Preshoot = 2.68 dB |                         |

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| <br><b>Pass</b> | Measurement: <b>16G Preset test- P5</b>                                                         |                         |
|                                                                                                    | Current Value: Pass                                                                             | Test Criteria: match    |
|                                                                                                    | Timestamp: 04/14/2025 19:19:47                                                                  | Limit Name: SigTestPass |
|                                                                                                    | Description: 16G Preset test result : Vb = 1012.16 mV, De-emphasis = 0.0 dB, Preshoot = 1.17 dB |                         |

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|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------|
| <br><b>Pass</b> | Measurement: <b>16G Preset test- P6</b>                                                        |                         |
|                                                                                                    | Current Value: Pass                                                                            | Test Criteria: match    |
|                                                                                                    | Timestamp: 04/14/2025 19:19:47                                                                 | Limit Name: SigTestPass |
|                                                                                                    | Description: 16G Preset test result : Vb = 955.38 mV, De-emphasis = 0.0 dB, Preshoot = 1.67 dB |                         |

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|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------|
| <br><b>Pass</b> | Measurement: <b>16G Preset test- P3</b>                                                         |                         |
|                                                                                                    | Current Value: Pass                                                                             | Test Criteria: match    |
|                                                                                                    | Timestamp: 04/14/2025 19:19:47                                                                  | Limit Name: SigTestPass |
|                                                                                                    | Description: 16G Preset test result : Vb = 955.04 mV, De-emphasis = -1.67 dB, Preshoot = 0.0 dB |                         |

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| <br><b>Pass</b> | Measurement: <b>16G Preset test- P2</b>                                                         |                         |
|                                                                                                  | Current Value: Pass                                                                             | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                  | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 824.41 mV, De-emphasis = -2.95 dB, Preshoot = 0.0 dB |                         |

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| <br><b>Fail</b> | Measurement: <b>16G Preset test- P10</b>                                                       |                         |
|                                                                                                  | Current Value: Fail                                                                            | Test Criteria: match    |
|                                                                                                  | Timestamp: 04/14/2025 19:19:47                                                                 | Limit Name: SigTestPass |
|                                                                                                  | Description: 16G Preset test result : Vb = 482.67 mV, De-emphasis = -7.6 dB, Preshoot = 0.0 dB |                         |

--- End of report ---