

Recommended device

**H2-2**

Fit score

**0.816**

CSE fidelity

**0.941**

Workload

**chemistry****VENDOR-NEUTRALITY ATTESTATION**

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**INPUT**

**Circuit** Investor demo GHZ-4 qubits=4, depth=5, 1Q=5, 2Q=4, measured=4  
**Priorities** f=0.45, gamma=0.15, phi=0.3, t=0.1  
**Category** chemistry  
**Notes** Investor demo run - 2026-04-28

**RANKING (TOP 5)**

| Rank | Device         | Provider   | Fit   | CSE F | Notes |
|------|----------------|------------|-------|-------|-------|
| 1    | H2-2           | quantinuum | 0.816 | 0.941 |       |
| 2    | ibm_boston     | ibm        | 0.642 | 0.906 |       |
| 3    | iqm_garnet     | aws        | 0.573 | 0.912 |       |
| 4    | iqm_emerald    | aws        | 0.560 | 0.881 |       |
| 5    | ibm_pittsburgh | ibm        | 0.543 | 0.846 |       |

... 8 more devices omitted. Full ranking in JSON.

**REASONING**

H2-2 ranks #1 of 13 devices for workload category 'chemistry'. Fit score 0.8156 under weights {'gamma': 0.15, 'phi': 0.3, 'f': 0.45, 't': 0.1}. Circuit Survival Estimator predicts fidelity 0.941 for the supplied circuit on this device.

**FOR THE PROCUREMENT REVIEWER**

This decision record is intended for inclusion in a client organisation's tender response, grant application, or internal procurement memo as evidence that the recommended vendor was selected on a vendor-neutral basis. The client organisation -- not the Issuer -- is the responsible party for the procurement decision. The reviewer can verify integrity in three steps: (1) re-hash the record's input + output payloads and compare to the content hash printed in the footer below; (2) resolve the Metriq snapshot commit at [github.com/unitaryfoundation/metriq-data](https://github.com/unitaryfoundation/metriq-data) and confirm the bound dataset; (3) cross-reference the recommendation against the methodology in the cited paper (DOI 10.5281/zenodo.19785800). Bundle ZIP with full reproduction materials available at [qlro.io](https://qlro.io) for clients with platform sign-in.

**REPRODUCIBILITY FOOTER**

Citation URL: [https://qlro.io/decision/rec\\_mWneBompr3](https://qlro.io/decision/rec_mWneBompr3)

Qlro runtime version: 0.6.0

Metriq snapshot commit: 89cd842f231f78f7aeea693ce2755354b8b7e2bb

Accuracy snapshot DOI: 10.5281/zenodo.19731319 (<https://doi.org/10.5281/zenodo.19731319>)

Content hash (SHA-256): b64430d64762de08b57eed6aeee9f1faac19c71638d1893192ec7c102be63517

*Re-hash the (record\_id, input, output, snapshot\_commit) tuple to verify this record was not altered after issuance.*

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