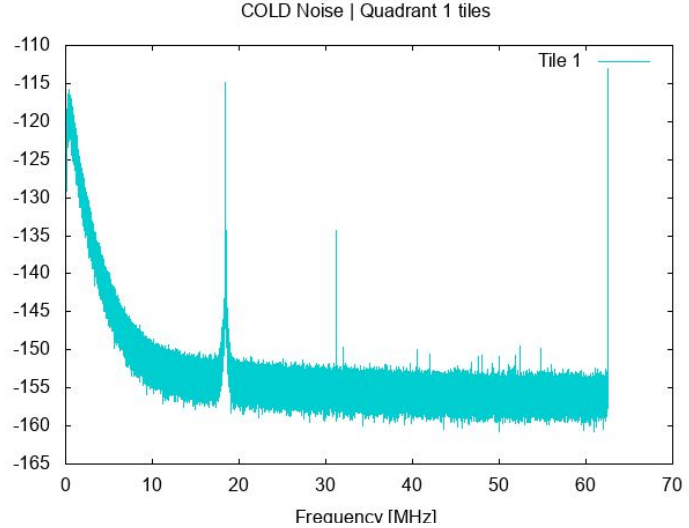
THE UNIVERSITY of EDINBURGH

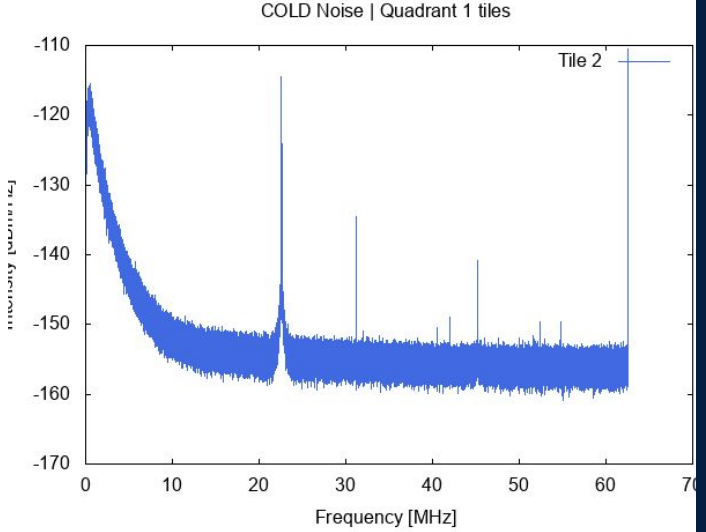
vPDU3 Cold Noise Plots

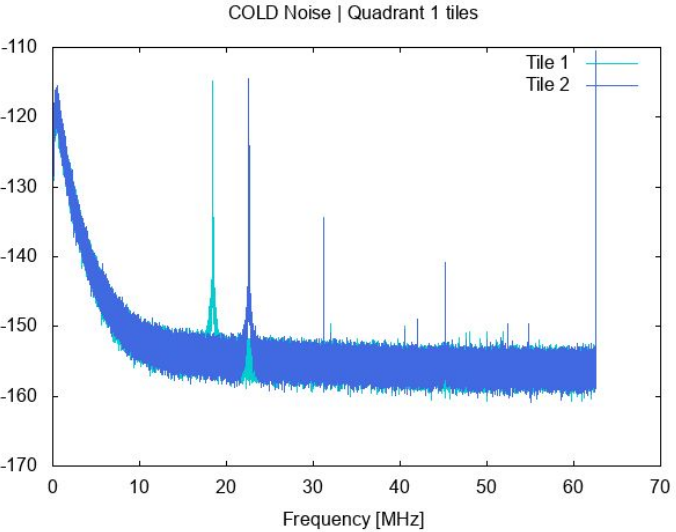
Tile plot overlays and analysis (using gnuplot :))

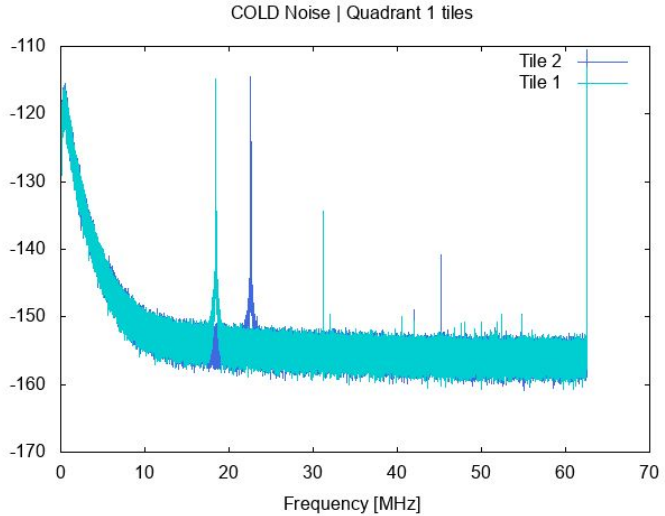
Edinburgh Test Stand
for DarkSide 20-k

From data taken
in November 2023









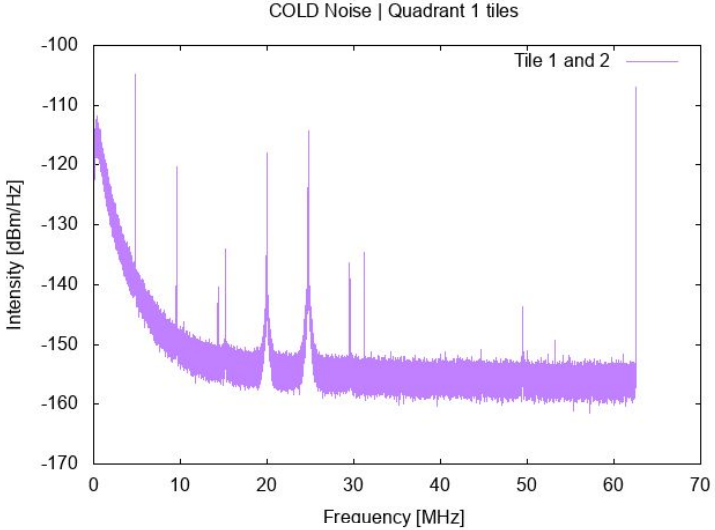
THE UNIVERSITY of EDINBURGH
School of Physics & Astronomy

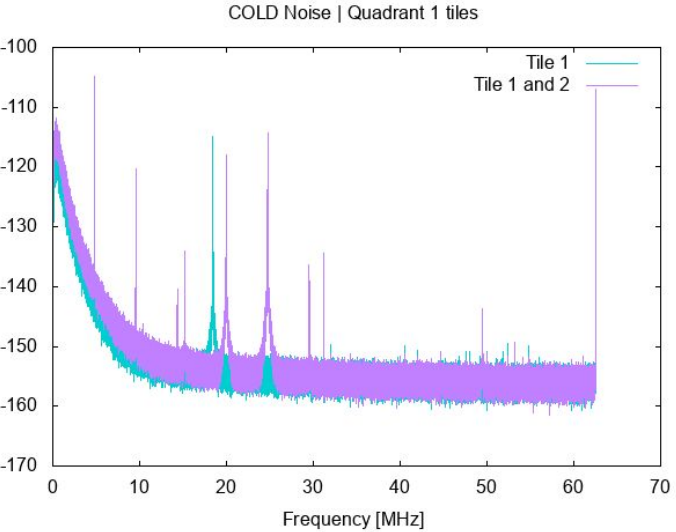
Quadrant 1 Noise

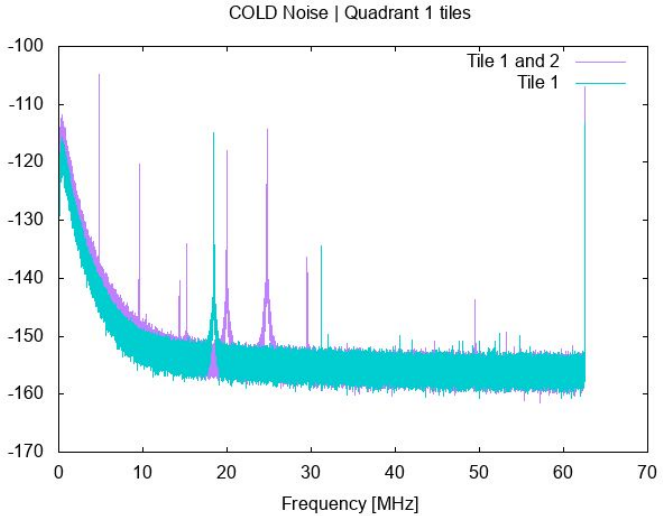
← Tiles 1
Tiles 2

← Tiles 1, 2 OVERLAY
Tiles 2, 1 OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000µs/500000samples







THE UNIVERSITY of EDINBURGH
School of Physics & Astronomy

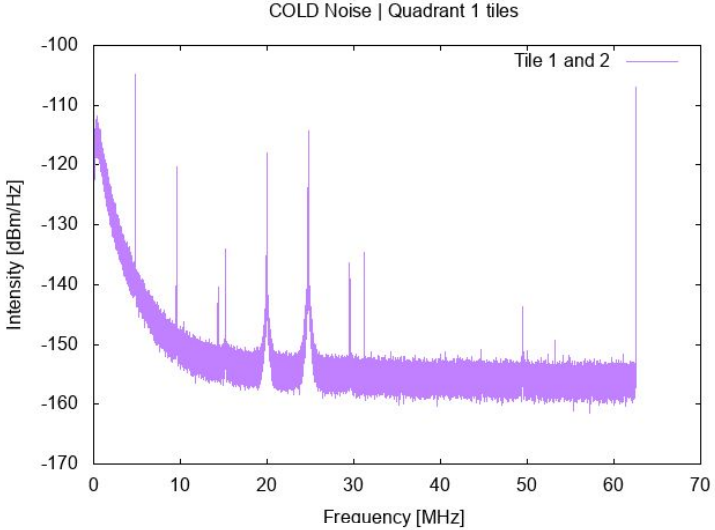
DARKSIDE

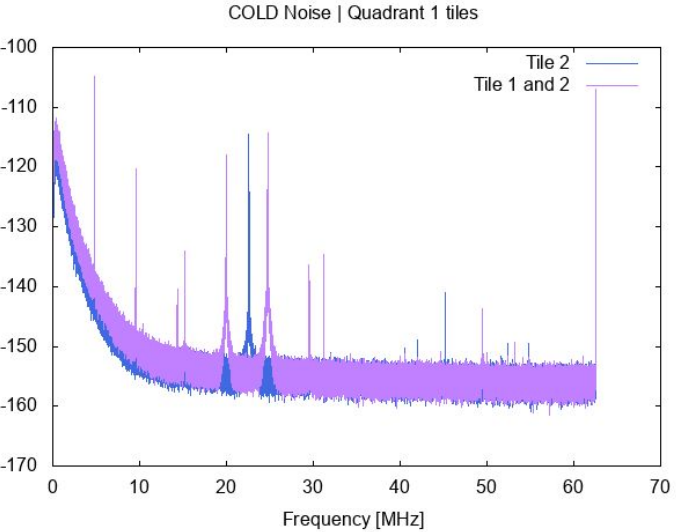
Quadrant 1 Noise

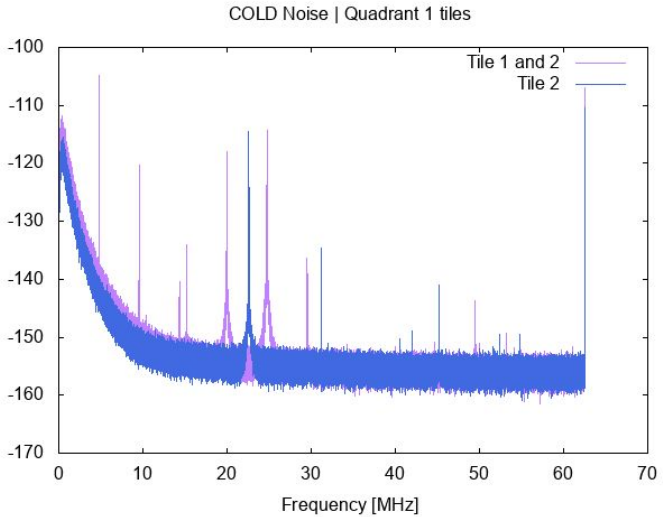
← Tiles 1and2

← Tiles 1, 1and2 OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000µs/500000samples







THE UNIVERSITY of EDINBURGH
School of Physics & Astronomy

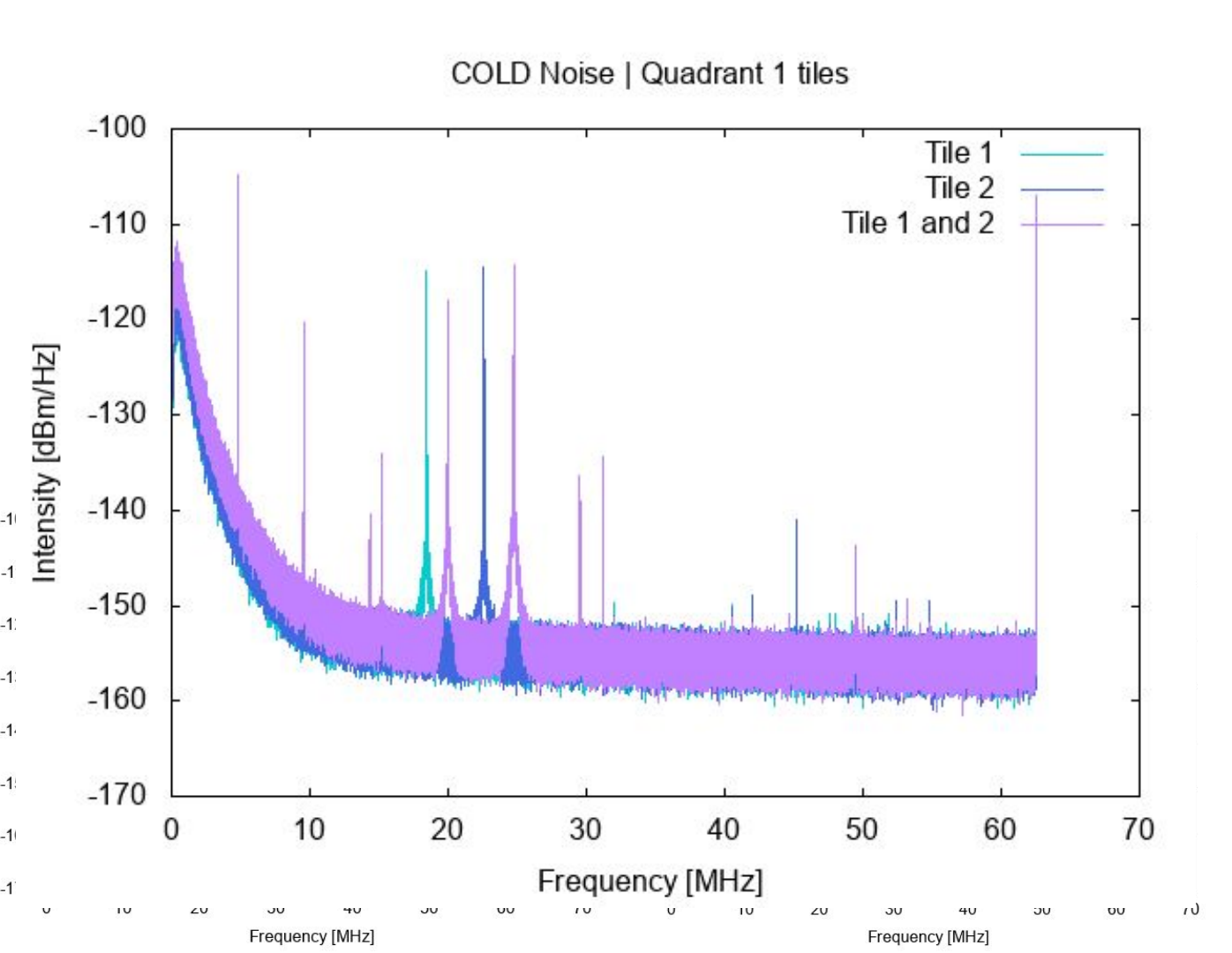
DARKSIDE

Quadrant 1 Noise

← Tiles 1and2

← Tiles 2, 1and2 OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000µs/500000samples



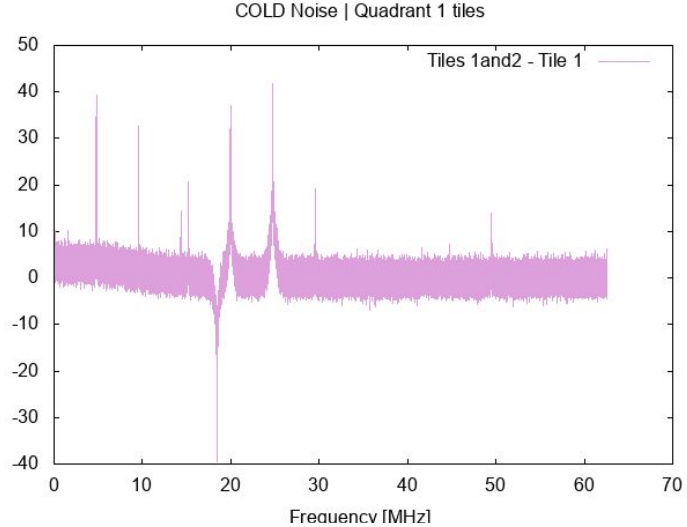
THE UNIVERSITY of EDINBURGH
School of Physics
& Astronomy

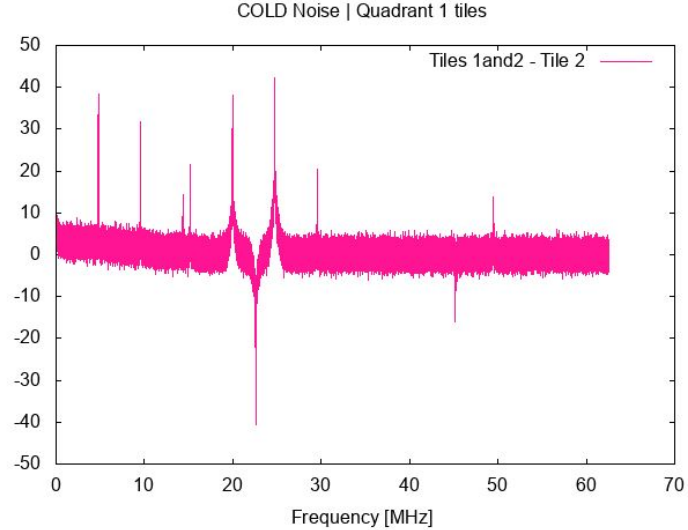
DARKSIDE

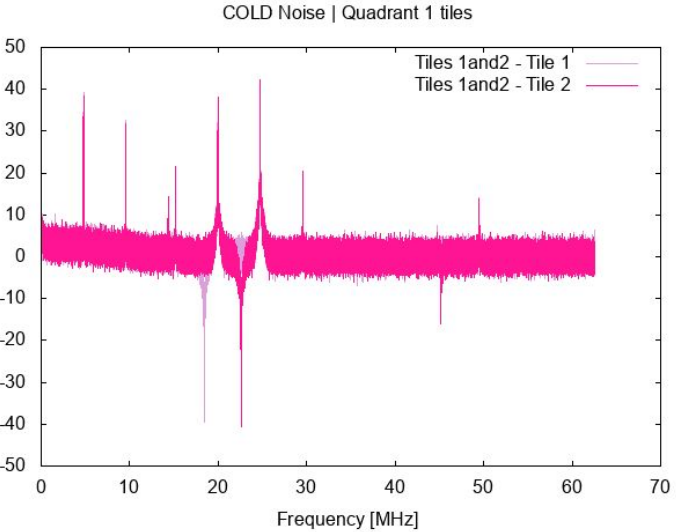
Quadrant 1 Noise

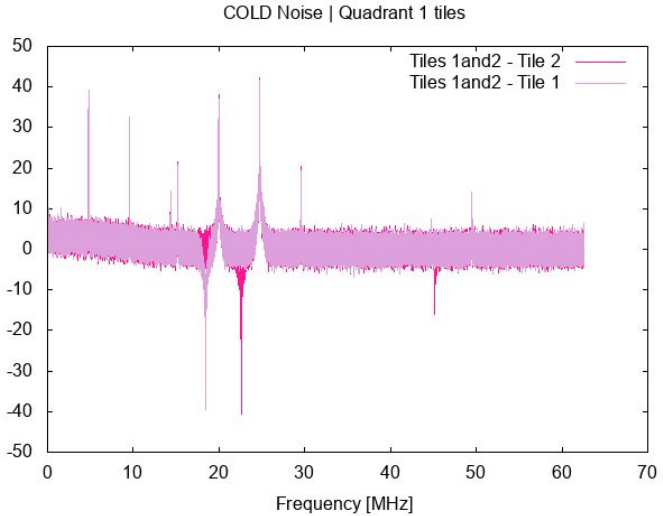
Tiles 1, 2, 1and2
OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000µs/500000samples









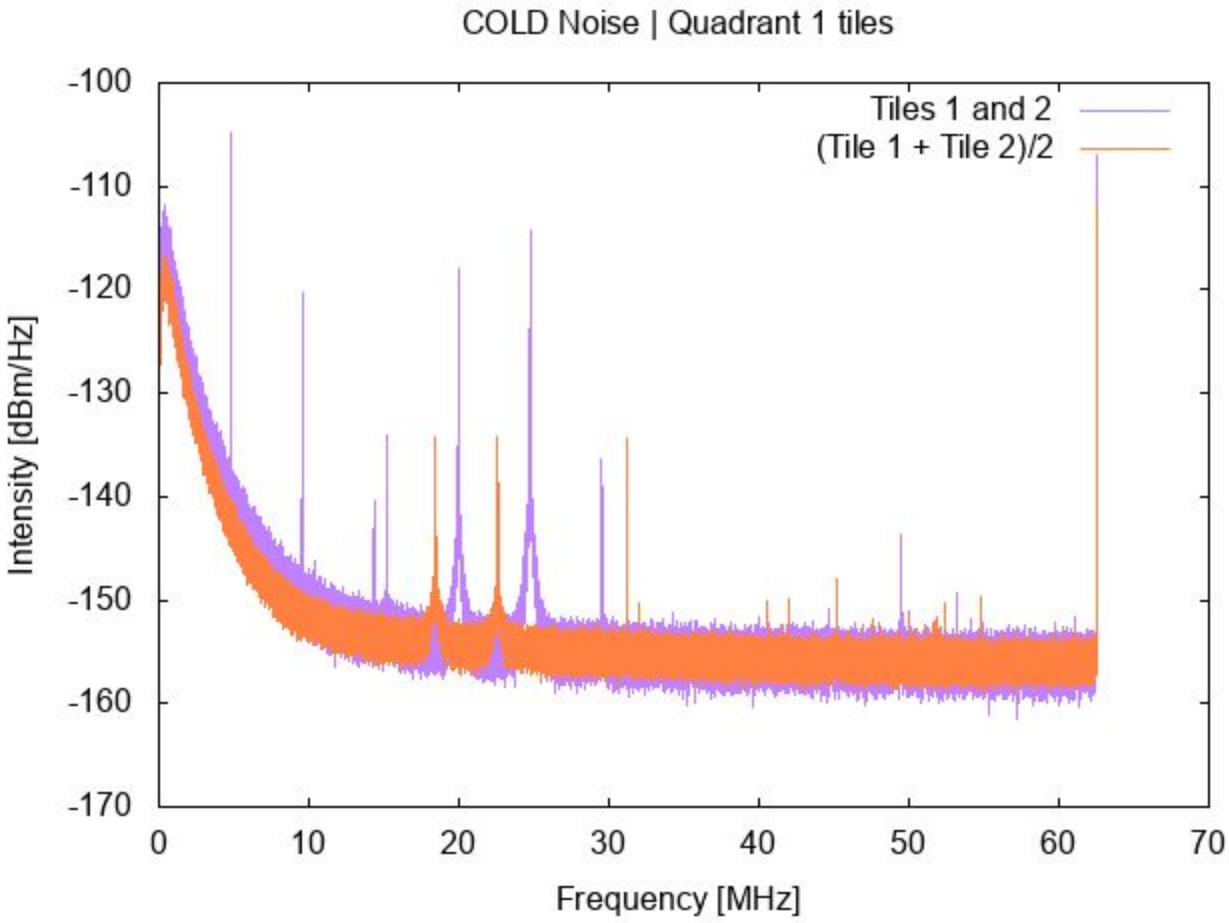
THE UNIVERSITY of EDINBURGH
School of Physics & Astronomy

Quadrant 1 Noise

← Tiles 1and2 - Tile1
Tiles 1and2 - Tile2

← Above OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000µs/500000samples



THE UNIVERSITY of EDINBURGH
School of Physics & Astronomy

DARKSIDE

Quadrant 1 Noise

Tiles 1
Tiles 2

Tiles 1, 2 OVERLAY
Tiles 2, 1 OVERLAY

Bias voltage: 40V
Laser: OFF
Frequency: 500 Hz
Trigger: P.g. 500Hz
Temperature: COLD
Wf length: 4000μs/500000samples