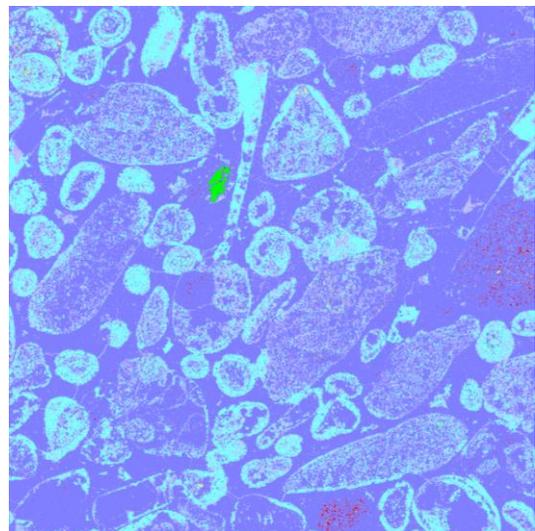
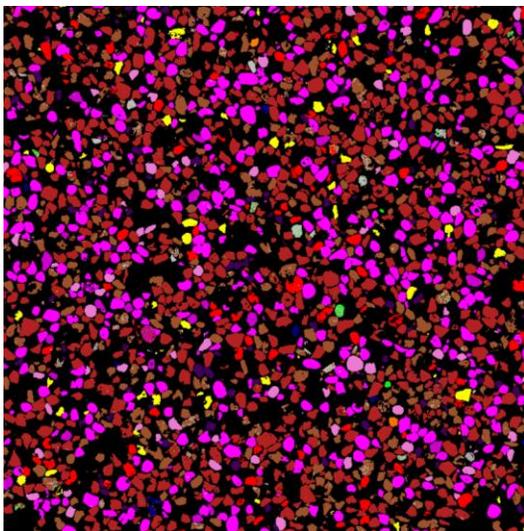
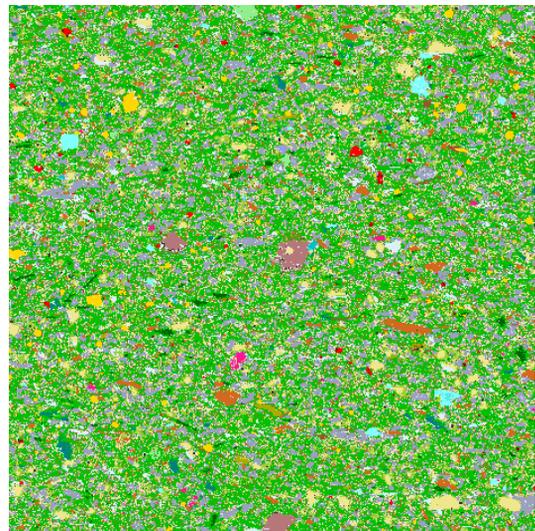
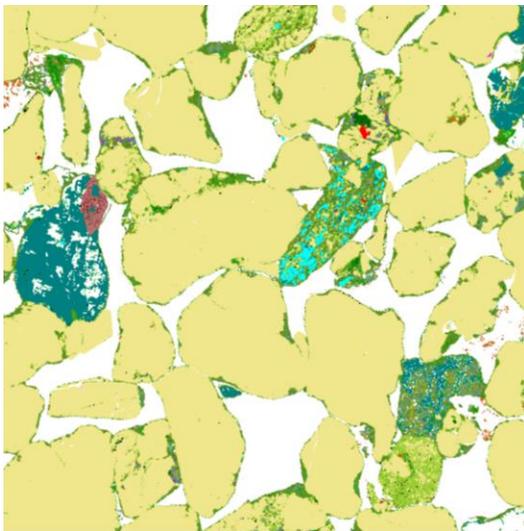


QS High Res

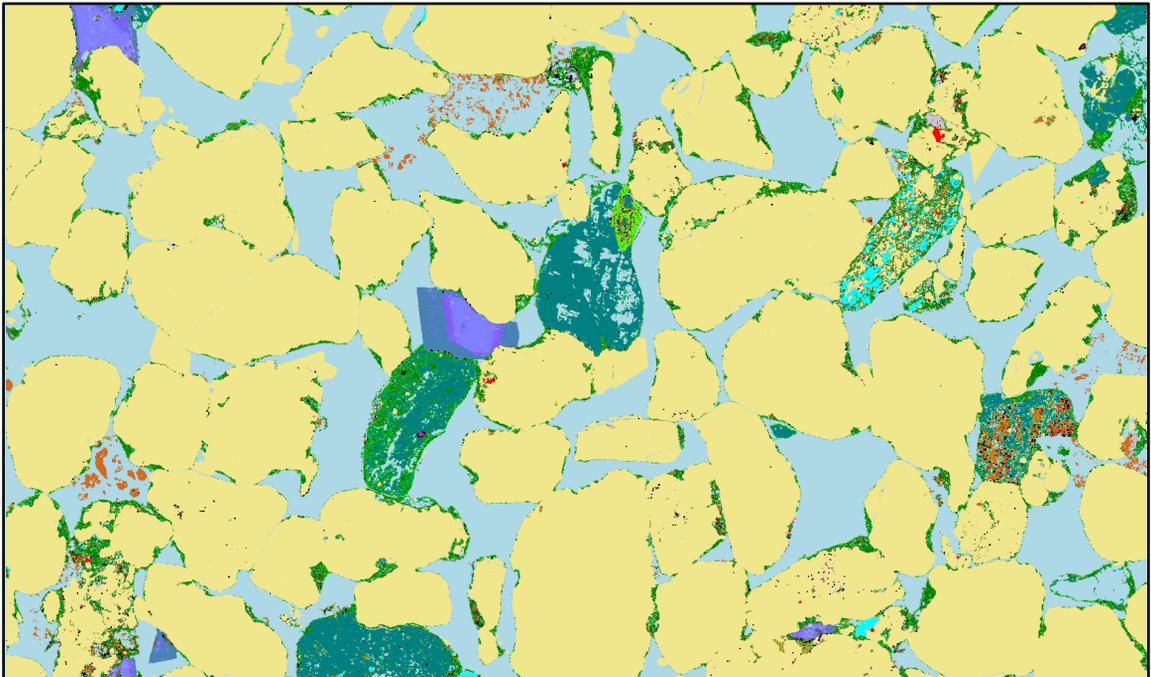
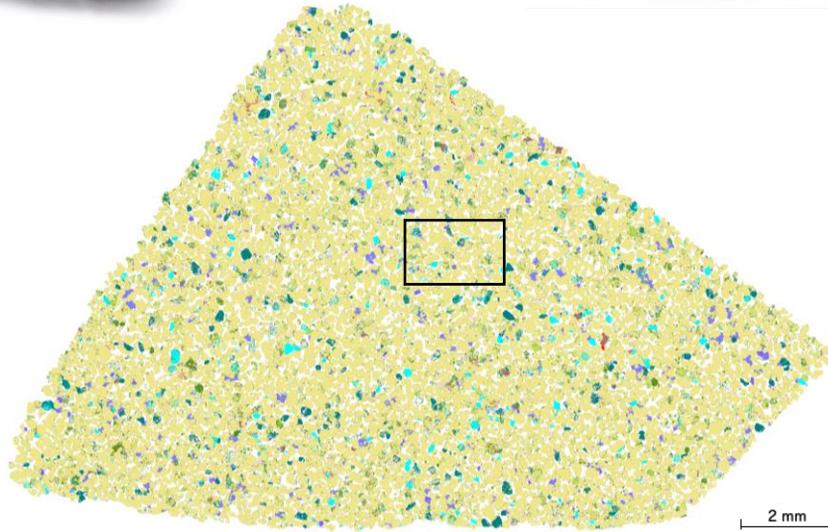
High resolution QEMSCAN

High resolution QEMSCAN service for in-depth study of specific samples for fine detail of mineral grains. QS High Res is ideal for mineralogy and textural studies of fine-grained material and provides detailed textural data e.g. grain size distribution, pore size distribution and pore-lining phases.



Clockwise from top left: QEMSCAN mineral maps of sandstone, shale, limestone and heavy mineral grains at 1 μm resolution.

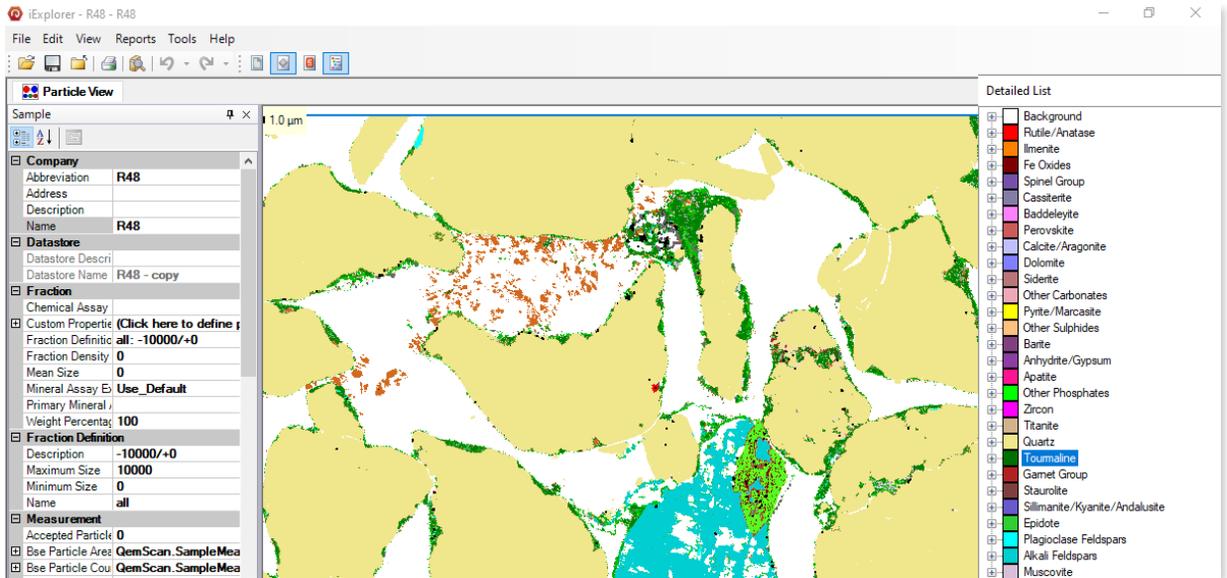
High Resolution QEMSCAN



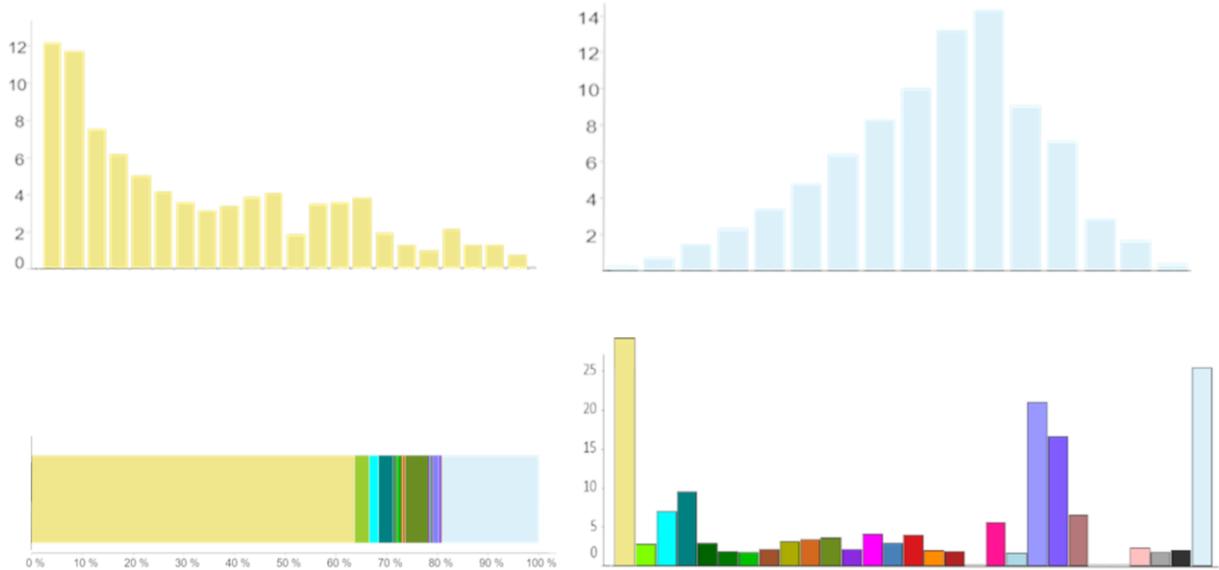
Top: Sample preparation from core plug to polished resin puck. **Middle:** Full sample scanned at 10 μm resolution and area of interest selected. **Bottom:** Area of interest scanned at 1 μm resolution, QEMSCAN image is 2 mm across.

Data Export and Analysis

High resolution QEMSCAN data can be interrogated interactively in the iDiscover software to visualise and quantify rock samples in great detail. The mineral phases within a mineral map may be grouped or split or reclassified to suit the user. Data can also be exported as charts, images or tabular data.



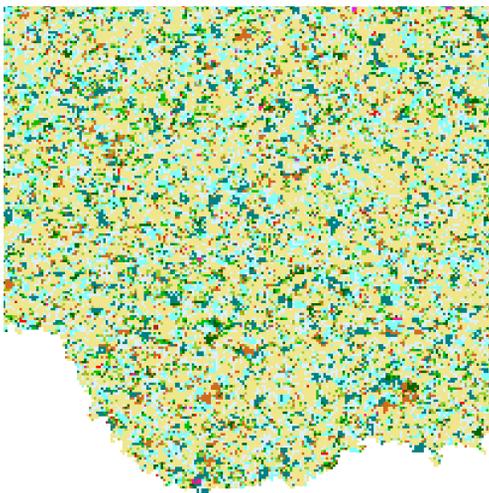
Sample view in QEMSCAN analysis software iDiscover.



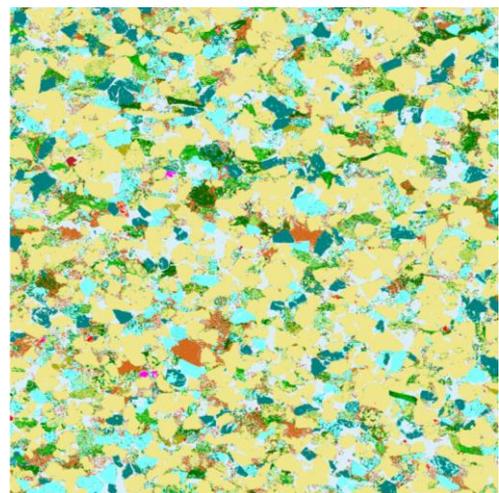
Clockwise from top left: Detailed rock properties can be extracted from each sample, including grain size distribution of quartz (or any mineral), pore size distribution, average grain size per mineral and porosity and sample bulk composition.

Deliverables

| | |
|-------------------------------|---|
| Mineral maps | QEMSCAN mineral phases at 10, 4 or 1 μm |
| Modal mineralogy | Per sample and per lithotype |
| Cuttings size index | Per sample and per lithotype |
| Average grain size | Per mineral phases, per sample and per lithotype |
| Pore/grain size distribution | Grain size histograms and data tables for mineral phases of interest or pore space. Grouped by depth, lithotype or individual cuttings. |
| Cuttings lithotyping | Determination of up to 5 lithotypes per sample and reporting of agreed rock properties per lithotype. |
| Cuttings porosity | QEMSCAN measured and calculated per sample, lithotype or individual cuttings, as agreed. |
| Individual cuttings reporting | Quantification of agreed rock properties per individual cutting in a sample. |



50 μm resolution image with QS Rock



4 μm resolution image with QS Hi Res

v 1.0

Rocktype

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