

QCT QA Monitor Report

CT48450 19/06/2014

Scanner Information

Make: SIEMENS
Model: Biograph 16
ID: CT48450

Technique

kVp: 120
Table Height: 152
SFOV: 500
Exposure: 302
Slice Thickness: 1.5

Comments

Qualitative Results

Condition Checked

Number of QA Images Analyzed (47)

Status

OK

Presence of Outliers in QA Data

OK

Field Uniformity Correction (FUC) Precision

OK

QCT Calibration Precision

OK

ROI Precision

OK

Overall BMD Theoretical Limiting Precision

OK

• 1.64 mg/cc for BMD of 100 mg/cc

Quantitative Results

Monitor FUC: 1.0731 ± 0.0034

Precision Estimates: Homogeneous, 4 cm², Single-Slice ROI

QCT Calibration

Intercept: 1023.1 ± 1.5
Slope: 1.360 ± 0.010
R: -0.53

BMD (mg/cc)	1 SD (mg/cc)	FUC SD	QCT SD	ROI SD
50	2.04	0.17	0.94	1.80
100	1.64	0.34	0.93	1.31
200	2.32	0.68	1.24	1.84

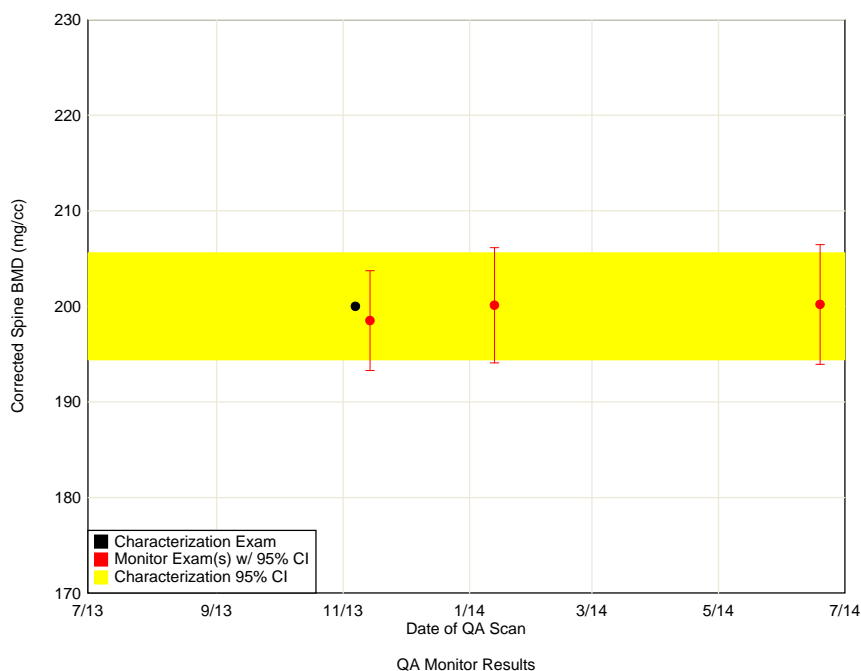
Characterization Exam

Exam Date: 07/11/2013
FUC: 1.0730 ± 0.0077

Monitor Exams

Exam Date	Spine BMD (mg/cc)
14/11/2013	198.5 ± 2.7
13/01/2014	200.1 ± 3.1
19/06/2014	200.2 ± 3.2

Serial Monitor Results



QA Summary: Pass