

# 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 (25)

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

• 1.69 mg/cc for BMD of 100 mg/cc

## Quantitative Results

Monitor FUC:  $1.0684 \pm 0.0062$

Precision Estimates: Homogeneous,  $4 \text{ cm}^2$ , Single-Slice ROI

### QCT Calibration

Intercept:  $1023.3 \pm 1.2$   
Slope:  $1.361 \pm 0.010$   
R: -0.45

BMD (mg/cc)	1 SD (mg/cc)	FUC SD	QCT SD	ROI SD
50	1.80	0.31	0.79	1.59
100	1.69	0.62	0.86	1.32
200	2.46	1.23	1.35	1.65

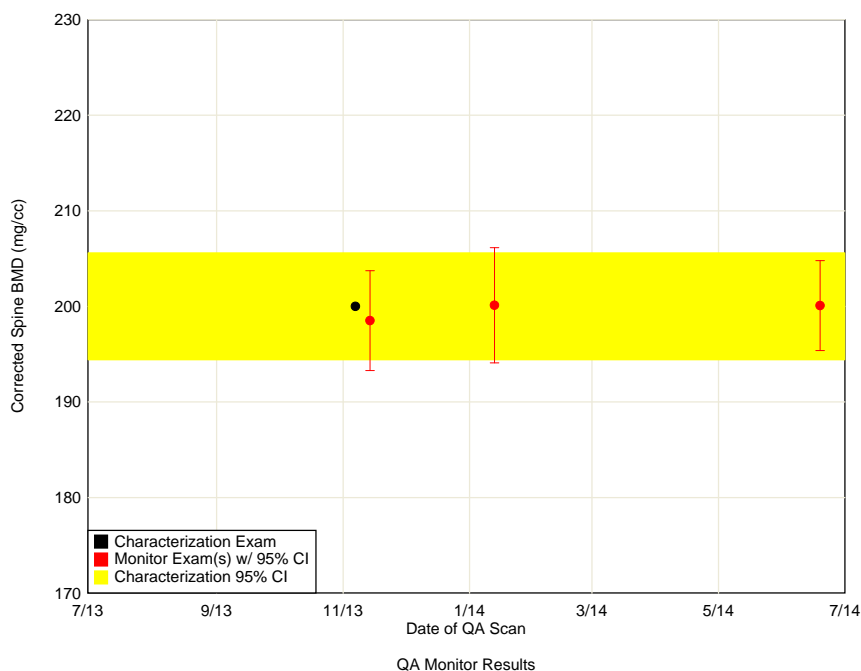
## Characterization Exam

Exam Date: 07/11/2013  
FUC:  $1.0730 \pm 0.0077$

## Monitor Exams

Exam Date	Spine BMD (mg/cc)
14/11/2013	$198.5 \pm 2.7$
13/01/2014	$200.1 \pm 3.1$
19/06/2014	$200.1 \pm 2.4$

## Serial Monitor Results



QA Summary: Pass