

## Electronic Supporting Information

# Magnetofluorescent mixed micelles incorporating Dy<sup>III</sup>-DOTA as potential bimodal agents for high field magnetic resonance and optical imaging

Michael Harris, Luce Vander Elst, Sophie Laurent, and Tatjana N. Parac-Vogt\*

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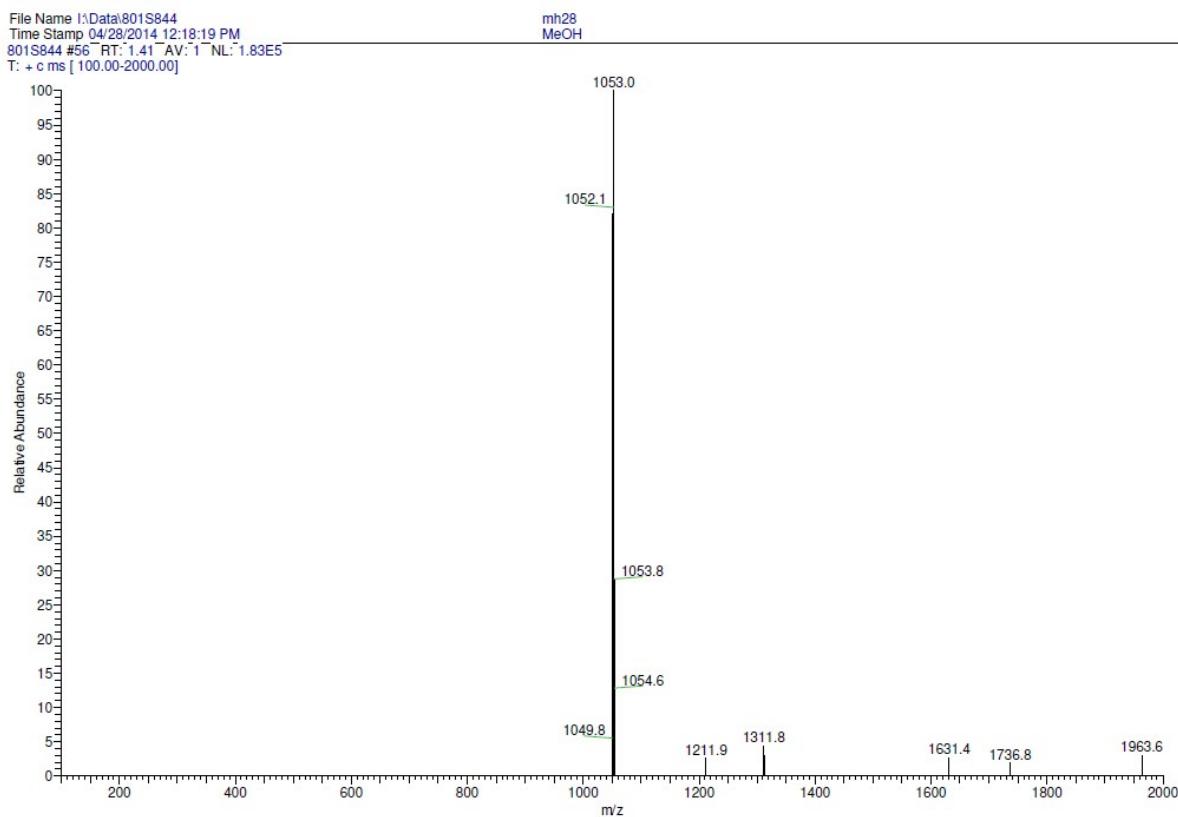


Fig. S1. ESI-MS Dy(III)-*cis*-DOTA DOTA-BC<sub>12</sub>PheA

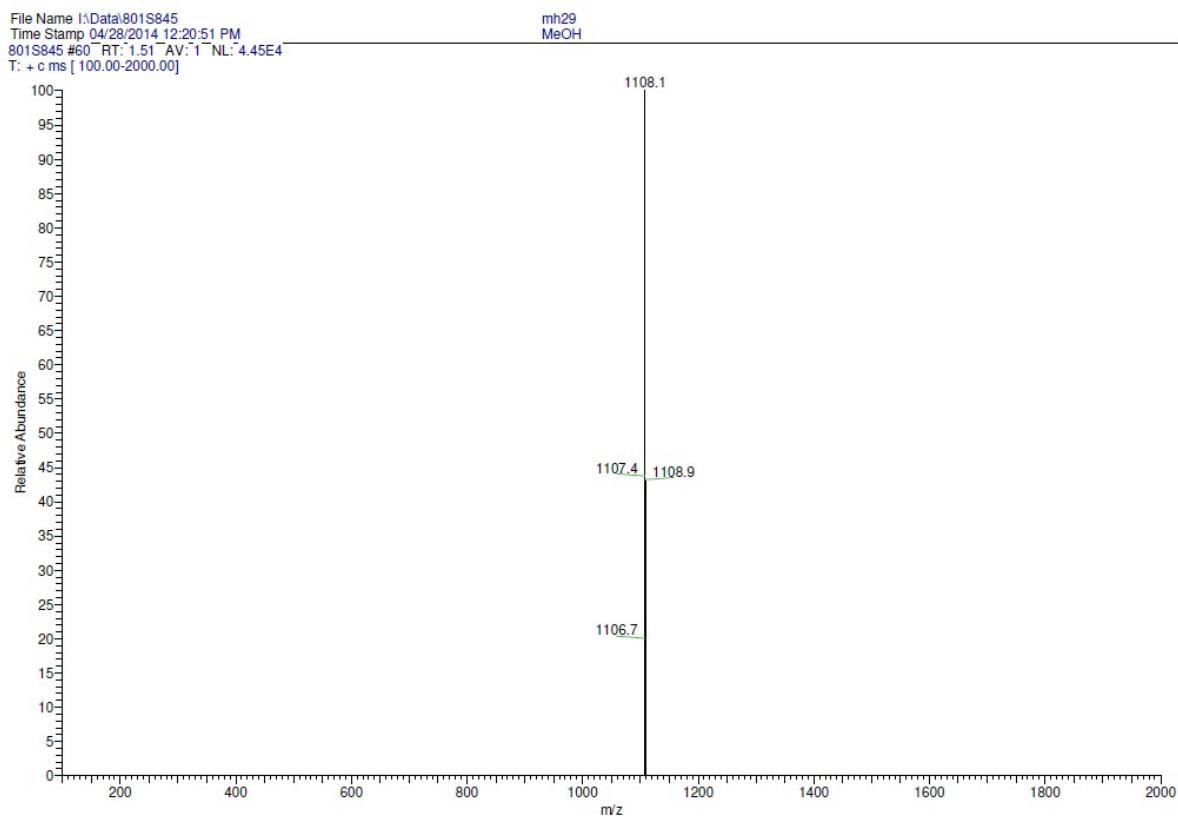


Fig. S2. ESI-MS Dy(III)-*cis*-DOTA DOTA-BC<sub>14</sub>PheA

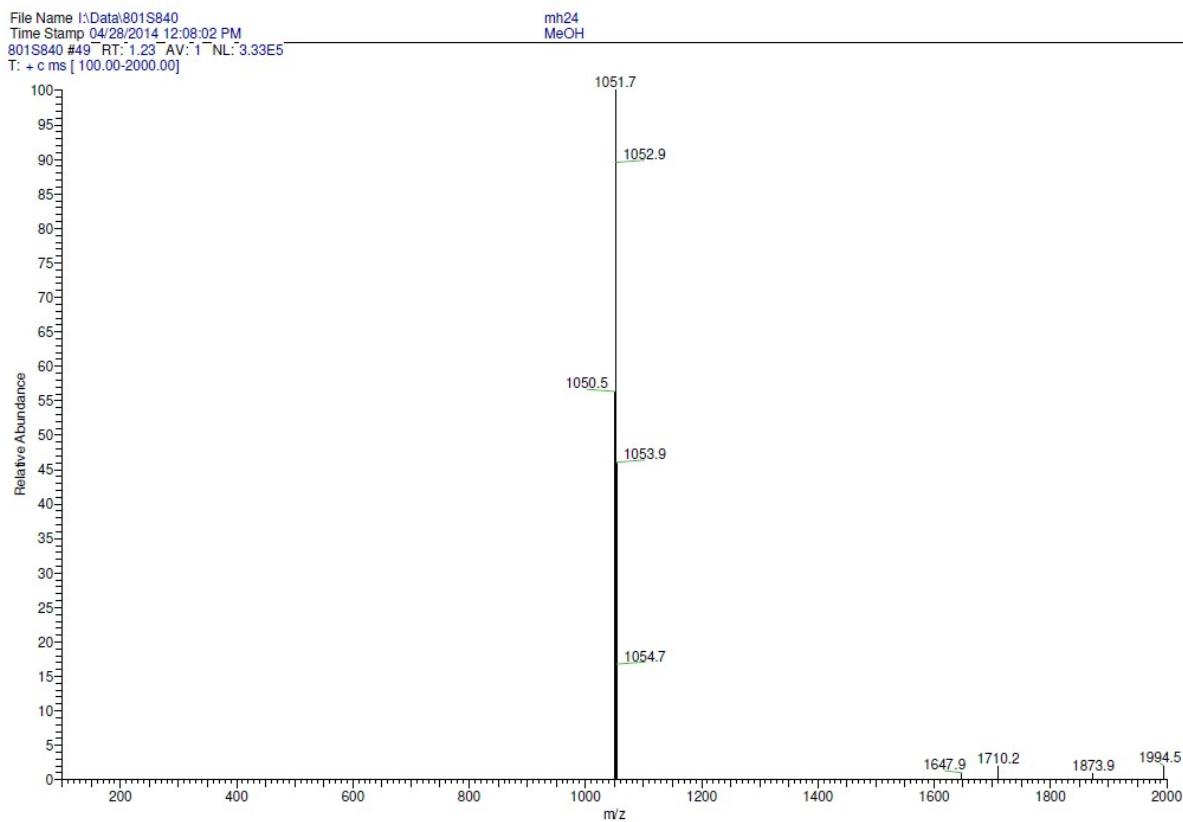


Fig. S3. ESI-MS Dy(III)-*trans*-DOTA-BC<sub>12</sub>PheA

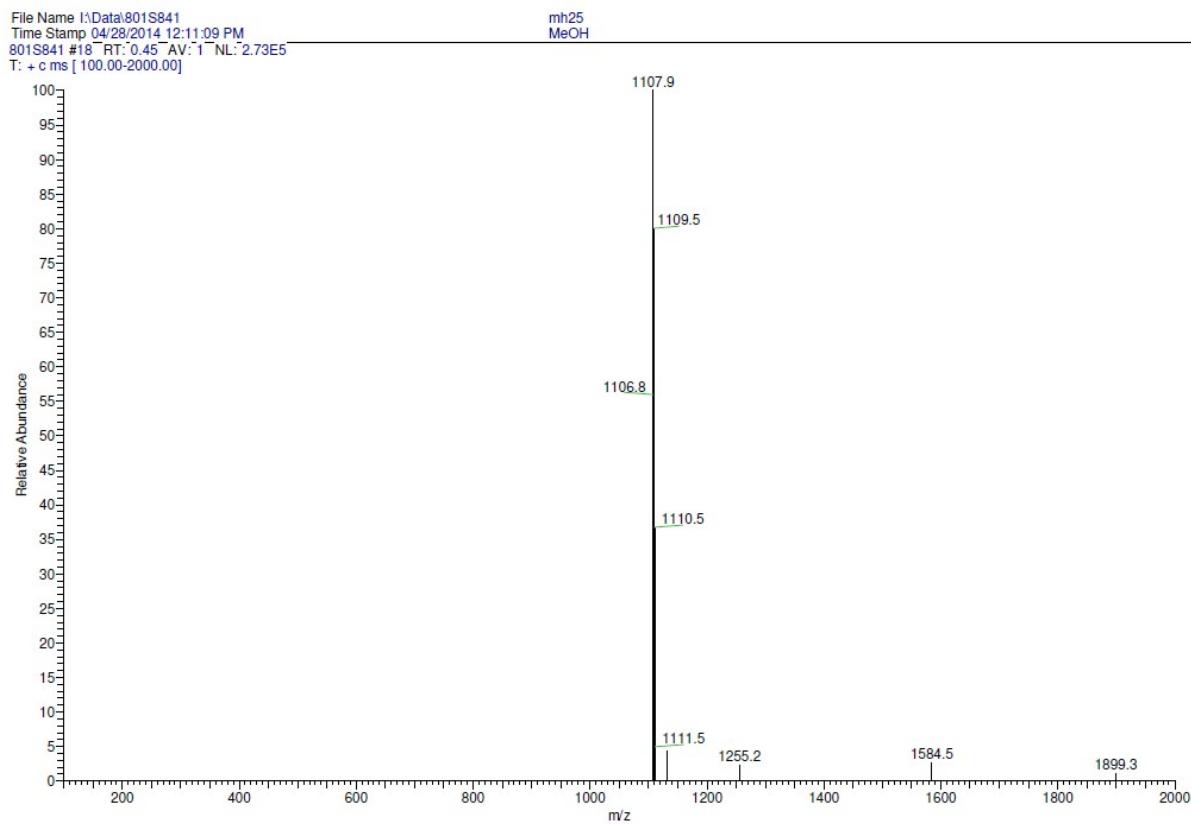


Fig. S4. Dy(III)-*trans*-DOTA-C<sub>14</sub>PheA

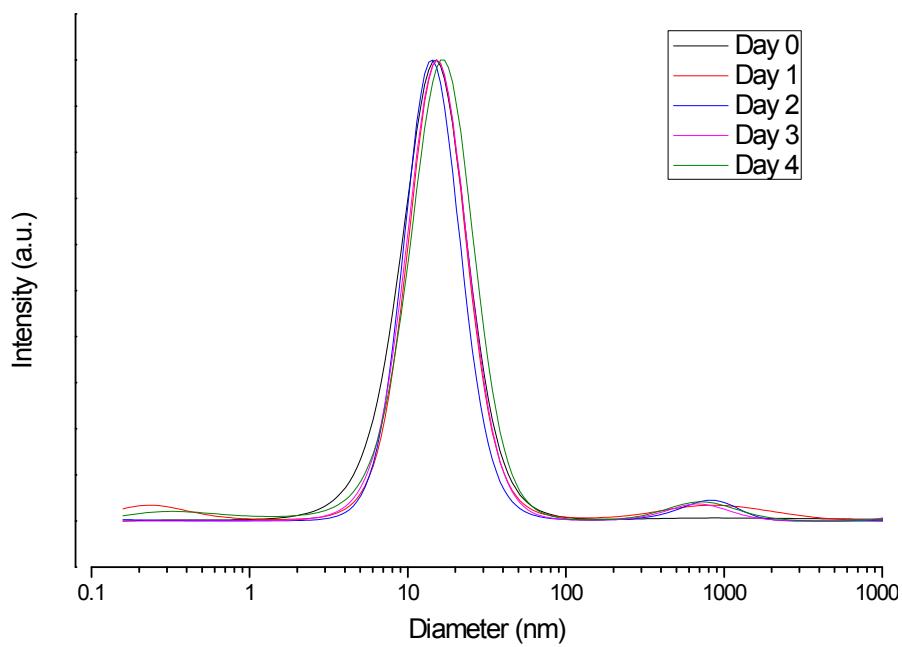


Fig. S5. Dy(III)-*cis*-DOTA-BC<sub>12</sub>PheA DLS stability (H<sub>2</sub>O, 0.01 wt%, 37 °C). Peak: 15 nm

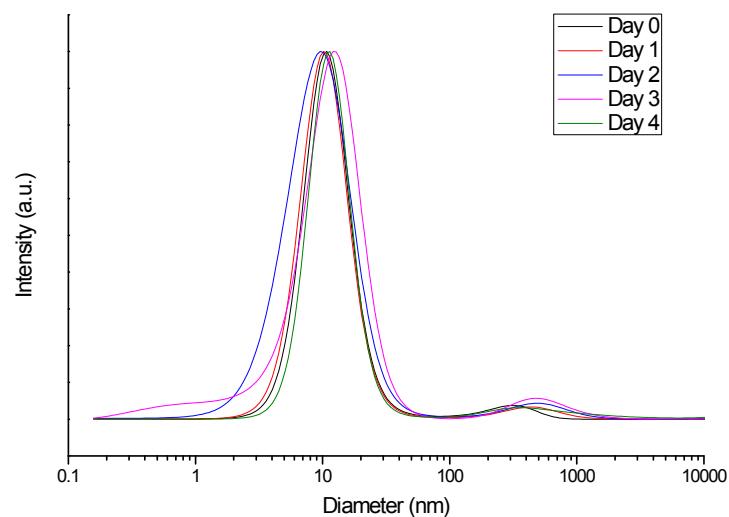


Fig. S6. Dy(III)-*cis*-DOTA-BC<sub>14</sub>PheA DLS stability (H<sub>2</sub>O, 0.01 wt%, 37 °C). Peak 10 nm

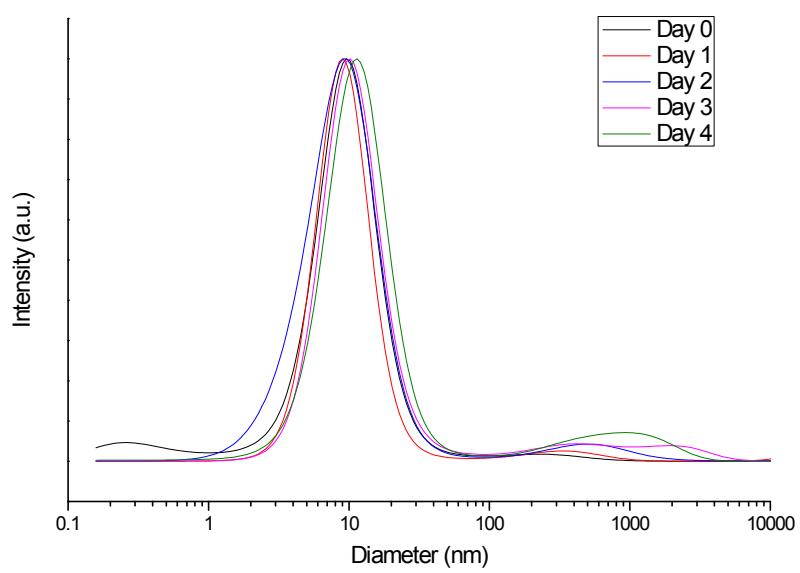


Fig. S7. Dy(III)-*trans*-DOTA-BC<sub>12</sub>PheA DLS stability (H<sub>2</sub>O, 0.01 wt%, 37 °C). Peak 10 nm

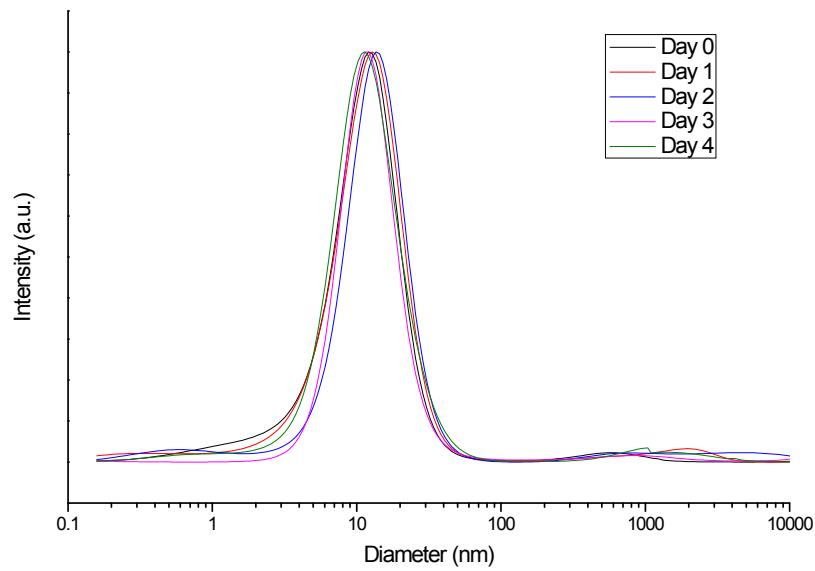


Fig. S8. Dy(III)-*trans*-DOTA-BC<sub>14</sub>PheA DLS stability (H<sub>2</sub>O, 0.01 wt%, 37 °C). Peak 12 nm

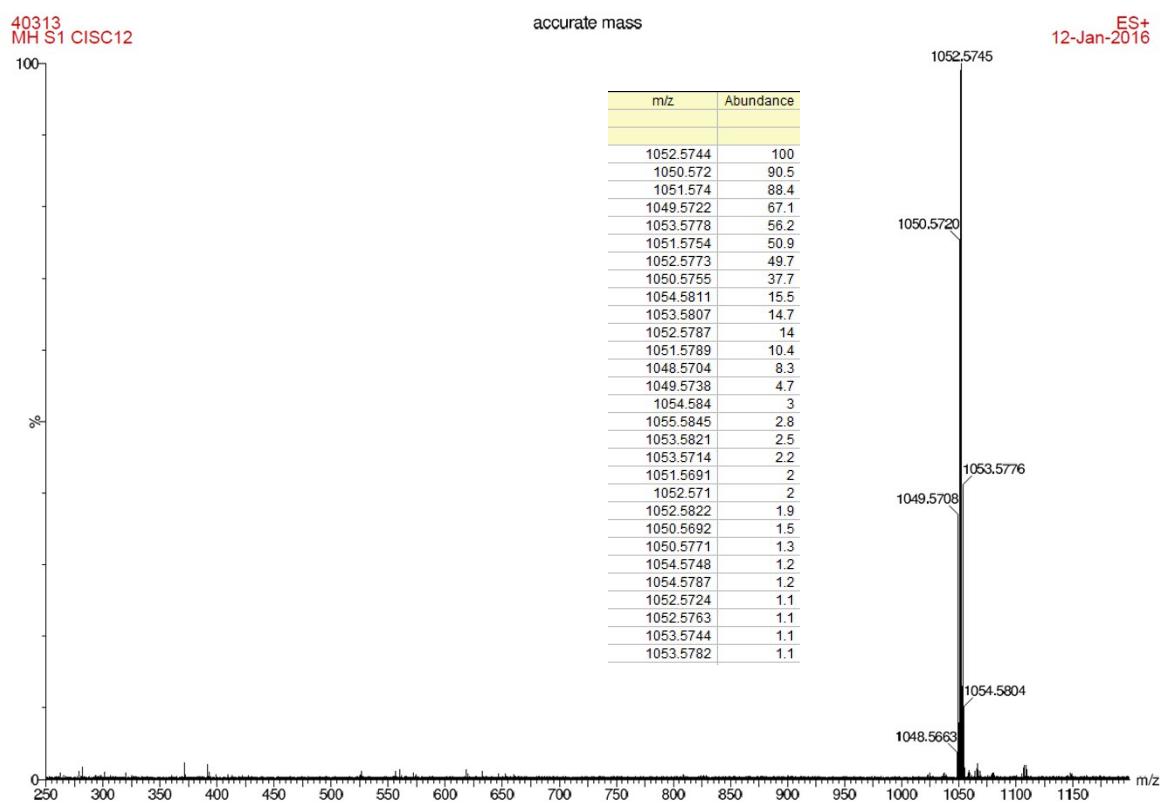


Fig. S9 HRMS Dy(III)-*cis*-DOTA DOTA-BC<sub>12</sub>PheA. Inserted table is predicted isotopic abundance.

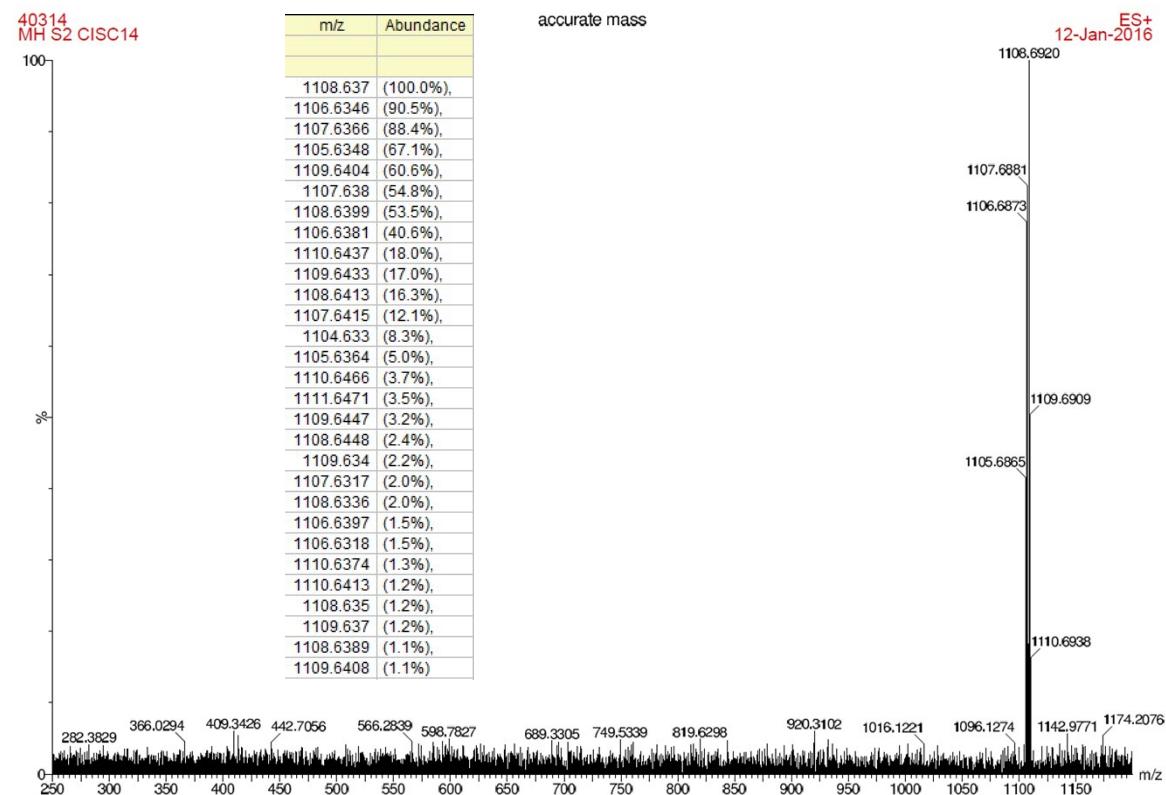


Fig. S10 HRMS Dy(III)-*cis*-DOTA DOTA-BC<sub>14</sub>PheA. Inserted table is predicted isotopic abundance.

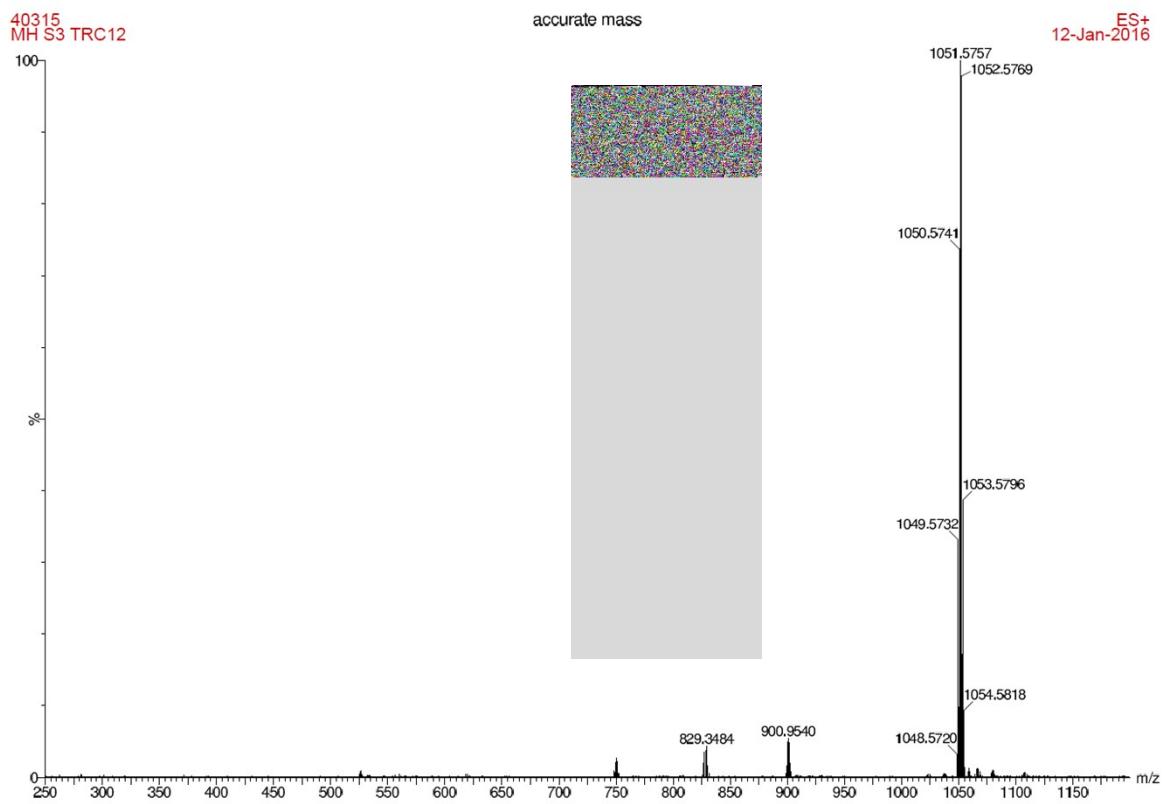


Fig. S11 HRMS Dy(III)-*trans*-DOTA DOTA-BC<sub>12</sub>PheA. Inserted table is predicted isotopic abundance.

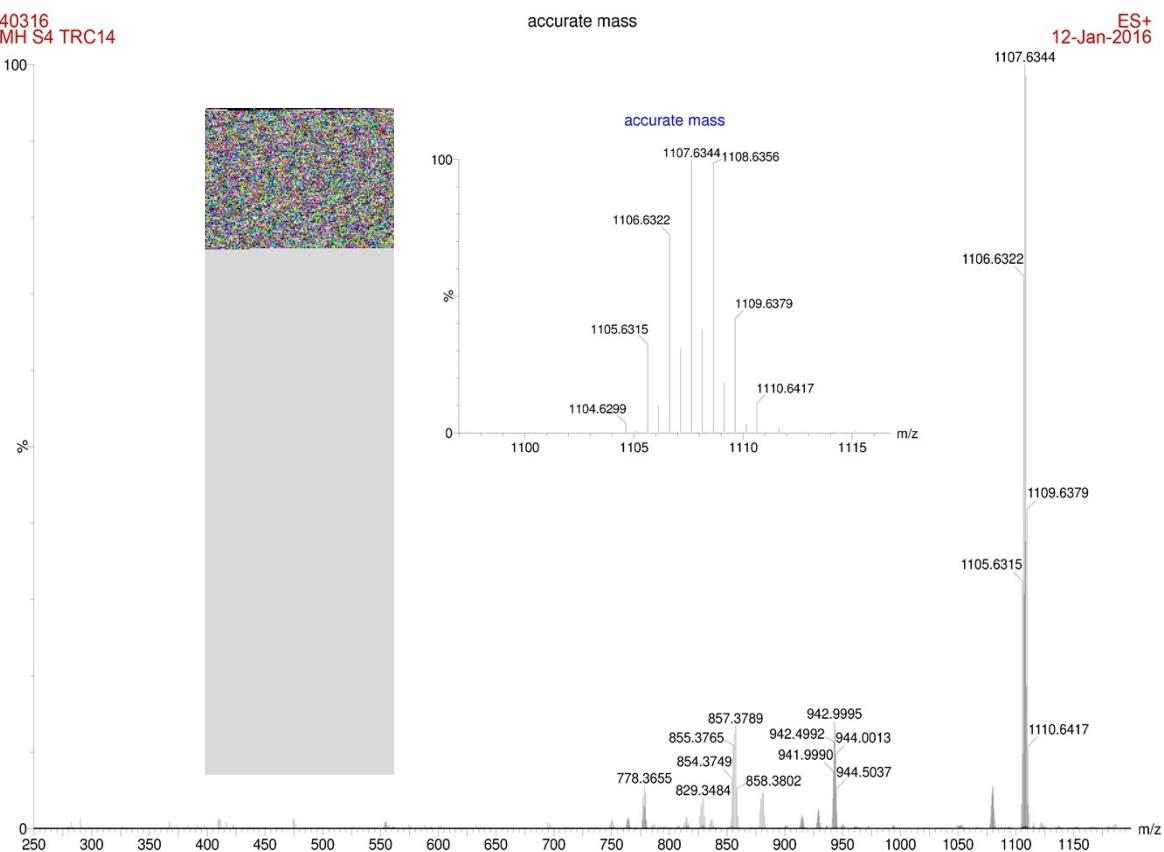


Fig. S12 HRMS Dy(III)-*trans*-DOTA DOTA-BC<sub>14</sub>PheA. Inserted table is predicted isotopic abundance.