LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.678 | 6 | 8 | 16 | rVB | 89698 | 190117 | 5.72% | 0.495% |
| 2 | 1.792 | 16 | 18 | 56 | rVB | 1150228 | 2311386 | 69.54% | 6.023% |
| 3 | 3.347 | 151 | 154 | 160 | rBV | 40387 | 83240 | 2.50% | 0.217% |
| 4 | 4.844 | 284 | 285 | 291 | rBV | 45117 | 70212 | 2.11% | 0.183% |
| 5 | 5.290 | 323 | 324 | 332 | rBV | 748485 | 1001192 | 30.12% | 2.609% |
| 6 | 5.724 | 356 | 362 | 366 | rBV | 28442 | 37653 | 1.13% | 0.098% |
| 7 | 6.353 | 415 | 417 | 425 | rBV | 639830 | 680554 | 20.48% | 1.773% |
| 8 | 6.467 | 425 | 427 | 430 | rBV | 1711842 | 1618449 | 48.69% | 4.217% |
| 9 | 6.547 | 432 | 434 | 436 | rVV2 | 60001 | 66520 | 2.00% | 0.173% |
| 10 | 6.627 | 439 | 441 | 445 | rBV2 | 39589 | 95109 | 2.86% | 0.248% |
| 11 | 6.696 | 445 | 447 | 448 | rVV | 743592 | 636220 | 19.14% | 1.658% |
| 12 | 6.719 | 448 | 449 | 452 | rVV2 | 97550 | 164112 | 4.94% | 0.428% |
| 13 | 6.776 | 452 | 454 | 456 | rVV2 | 130247 | 140962 | 4.24% | 0.367% |
| 14 | 6.810 | 456 | 457 | 458 | rVV | 32469 | 42883 | 1.29% | 0.112% |
| 15 | 6.856 | 458 | 461 | 463 | rVV | 1746806 | 1858124 | 55.90% | 4.842% |
| 16 | 7.039 | 475 | 477 | 480 | rVB2 | 69535 | 101980 | 3.07% | 0.266% |
| 17 | 7.119 | 480 | 484 | 487 | rBV4 | 53935 | 156688 | 4.71% | 0.408% |
| 18 | 7.233 | 489 | 494 | 495 | rBV3 | 72148 | 156986 | 4.72% | 0.409% |
| 19 | 7.267 | 495 | 497 | 499 | rVV | 1272521 | 1440896 | 43.35% | 3.754% |
| 20 | 7.302 | 499 | 500 | 502 | rVV | 396443 | 313970 | 9.45% | 0.818% |
| 21 | 7.359 | 502 | 505 | 506 | rVV3 | 23418 | 47440 | 1.43% | 0.124% |
| 22 | 7.382 | 506 | 507 | 510 | rVV3 | 74157 | 104818 | 3.15% | 0.273% |
| 23 | 7.450 | 511 | 513 | 517 | rVB4 | 33164 | 54483 | 1.64% | 0.142% |
| 24 | 7.507 | 517 | 518 | 521 | rVB2 | 62599 | 112929 | 3.40% | 0.294% |
| 25 | 7.564 | 521 | 523 | 525 | rVB2 | 83979 | 86402 | 2.60% | 0.225% |
| 26 | 7.610 | 525 | 527 | 529 | rBV3 | 52442 | 82466 | 2.48% | 0.215% |
| 27 | 7.667 | 529 | 532 | 534 | rVB2 | 113967 | 113431 | 3.41% | 0.296% |
| 28 | 7.724 | 534 | 537 | 541 | rBV2 | 419482 | 821553 | 24.72% | 2.141% |
| 29 | 7.793 | 541 | 543 | 545 | rBV2 | 192130 | 259419 | 7.80% | 0.676% |
| 30 | 7.987 | 548 | 560 | 563 | rBV | 938335 | 1864589 | 56.10% | 4.858% |
| 31 | 8.056 | 563 | 566 | 567 | rVB2 | 168737 | 271408 | 8.17% | 0.707% |
| 32 | 8.102 | 567 | 570 | 572 | rBV2 | 271884 | 353409 | 10.63% | 0.921% |
| 33 | 8.250 | 579 | 583 | 585 | rBV3 | 119163 | 337841 | 10.16% | 0.880% |
| 34 | 8.285 | 585 | 586 | 591 | rVB5 | 104449 | 205096 | 6.17% | 0.534% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.376 | 591 | 594 | 596 | rVB2 | 107029 | 202407 | 6.09% | 0.527% |
| 36 | 8.422 | 596 | 598 | 600 | rBV3 | 150795 | 312928 | 9.41% | 0.815% |
| 37 | 8.513 | 604 | 606 | 609 | rVB2 | 156283 | 224558 | 6.76% | 0.585% |
| 38 | 8.570 | 609 | 611 | 613 | rBV | 151582 | 220624 | 6.64% | 0.575% |
| 39 | 8.605 | 613 | 614 | 617 | rBV | 191361 | 184914 | 5.56% | 0.482% |
| 40 | 8.673 | 617 | 620 | 622 | rBV4 | 74348 | 217896 | 6.56% | 0.568% |
| 41 | 8.730 | 622 | 625 | 626 | rVV2 | 96687 | 165629 | 4.98% | 0.432% |
| 42 | 8.765 | 626 | 628 | 629 | rVB | 80961 | 85213 | 2.56% | 0.222% |
| 43 | 8.822 | 629 | 633 | 635 | rBV3 | 350172 | 574107 | 17.27% | 1.496% |
| 44 | 8.867 | 635 | 637 | 638 | rBV2 | 171170 | 178009 | 5.36% | 0.464% |
| 45 | 8.925 | 638 | 642 | 646 | rVV2 | 484031 | 1147221 | 34.52% | 2.989% |
| 46 | 9.016 | 647 | 650 | 652 | rVV3 | 443467 | 618538 | 18.61% | 1.612% |
| 47 | 9.062 | 652 | 654 | 657 | rVV | 1928826 | 2281625 | 68.65% | 5.945% |
| 48 | 9.153 | 660 | 662 | 663 | rBV2 | 130249 | 184751 | 5.56% | 0.481% |
| 49 | 9.187 | 663 | 665 | 666 | rVV | 130175 | 175299 | 5.27% | 0.457% |
| 50 | 9.222 | 666 | 668 | 672 | rVB3 | 300434 | 504121 | 15.17% | 1.314% |
| 51 | 9.382 | 679 | 682 | 683 | rBV3 | 182435 | 257701 | 7.75% | 0.671% |
| 52 | 9.416 | 683 | 685 | 687 | rBV2 | 290391 | 531929 | 16.00% | 1.386% |
| 53 | 9.565 | 695 | 698 | 699 | rBV | 498789 | 596081 | 17.93% | 1.553% |
| 54 | 9.633 | 703 | 704 | 707 | rVB3 | 195840 | 192053 | 5.78% | 0.500% |
| 55 | 9.702 | 707 | 710 | 711 | rBV3 | 161637 | 284747 | 8.57% | 0.742% |
| 56 | 9.736 | 711 | 713 | 714 | rBV | 888890 | 730871 | 21.99% | 1.904% |
| 57 | 9.839 | 721 | 722 | 723 | rBV | 88566 | 88130 | 2.65% | 0.230% |
| 58 | 9.908 | 723 | 728 | 733 | rVV7 | 243641 | 756527 | 22.76% | 1.971% |
| 59 | 9.988 | 733 | 735 | 739 | rVV4 | 250554 | 556086 | 16.73% | 1.449% |
| 60 | 10.068 | 740 | 742 | 744 | rVV3 | 232783 | 428300 | 12.89% | 1.116% |
| 61 | 10.125 | 744 | 747 | 750 | rVV3 | 230989 | 626619 | 18.85% | 1.633% |
| 62 | 10.182 | 750 | 752 | 753 | rVV | 156402 | 218007 | 6.56% | 0.568% |
| 63 | 10.285 | 757 | 761 | 764 | rVV3 | 285920 | 640912 | 19.28% | 1.670% |
| 64 | 10.479 | 775 | 778 | 780 | rBV3 | 213166 | 467426 | 14.06% | 1.218% |
| 65 | 10.536 | 780 | 783 | 785 | rVV2 | 1314080 | 3323789 | 100.00% | 8.661% |
| 66 | 10.628 | 789 | 791 | 794 | rVV3 | 265958 | 675605 | 20.33% | 1.760% |
| 67 | 10.730 | 798 | 800 | 801 | rVV2 | 141936 | 183739 | 5.53% | 0.479% |
| 68 | 10.799 | 803 | 806 | 809 | rVV3 | 306971 | 766983 | 23.08% | 1.998% |
| 69 | 10.902 | 812 | 815 | 817 | rBV4 | 204727 | 372831 | 11.22% | 0.971% |
| 70 | 11.222 | 841 | 843 | 845 | rBV | 718732 | 720307 | 21.67% | 1.877% |
| 71 | 11.336 | 851 | 853 | 856 | rVB2 | 163464 | 252082 | 7.58% | 0.657% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.811 | 979 | 982 | 983 | rBV | 1050158 | 1352292 | 40.69% | 3.524% |
| 73 | 13.851 | 1071 | 1073 | 1080 | rVB | 593992 | 604796 | 18.20% | 1.576% |
| 74 | 15.234 | 1192 | 1194 | 1200 | rVB | 405105 | 590311 | 17.76% | 1.538% |

Sum of corrected areas: 38378501

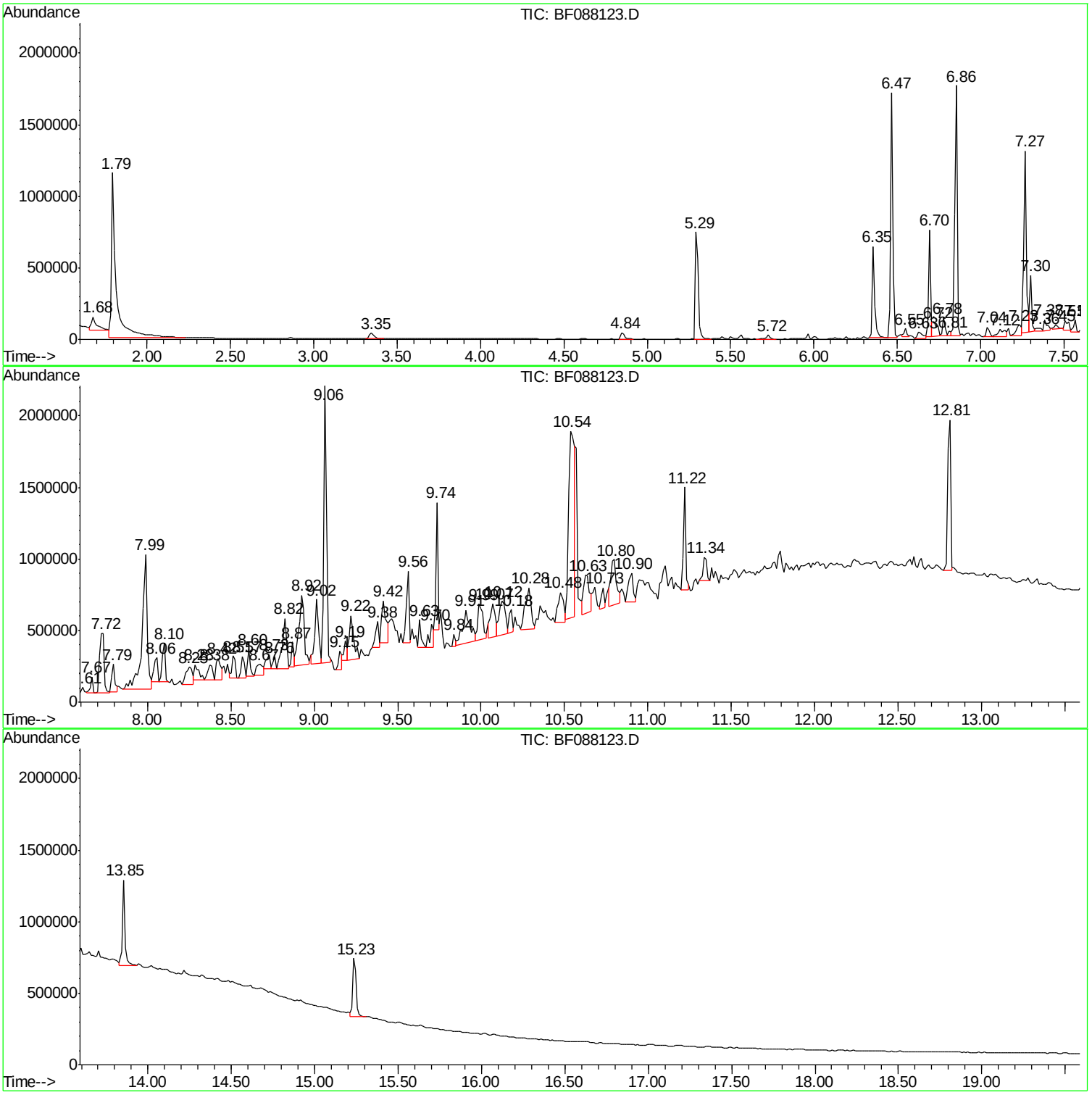
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

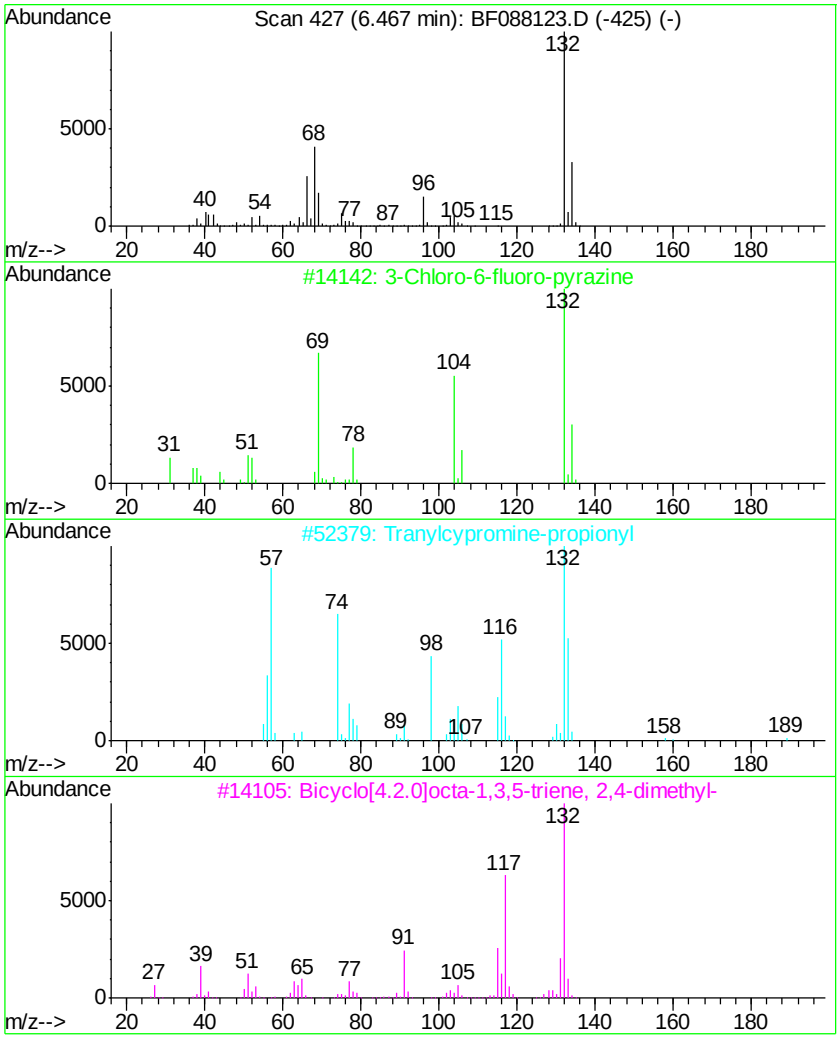
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

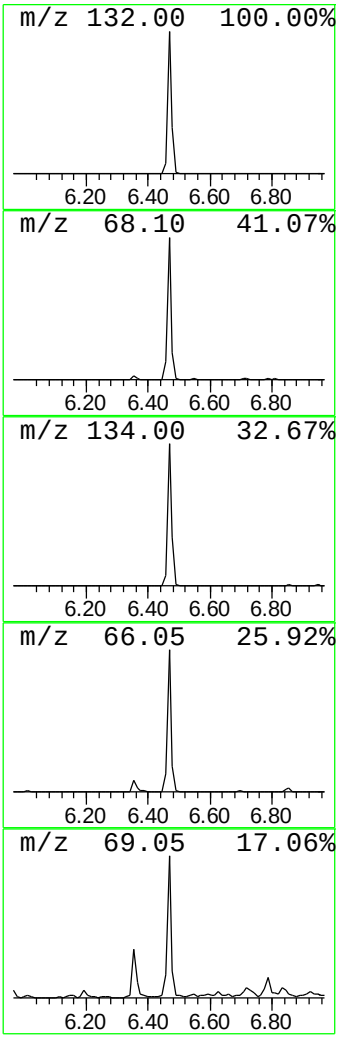
**********

Peak Number 3 unknown6.47 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.47 | 50.88 ng | 1618450 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

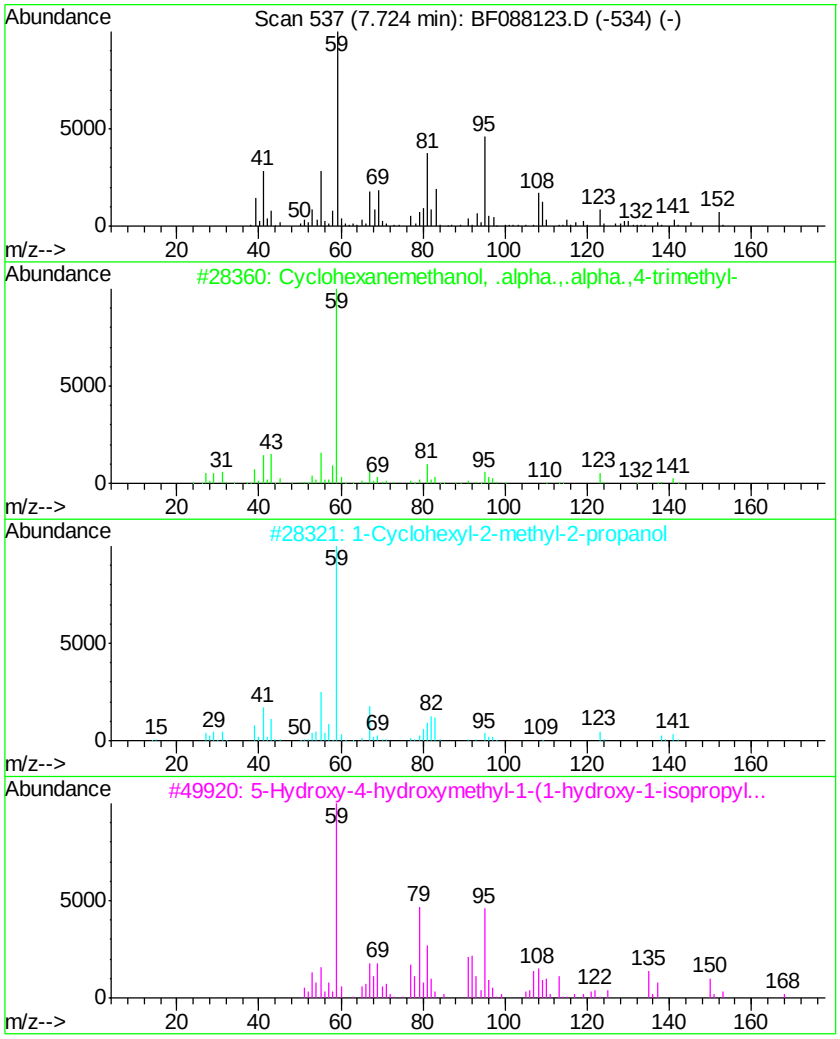
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

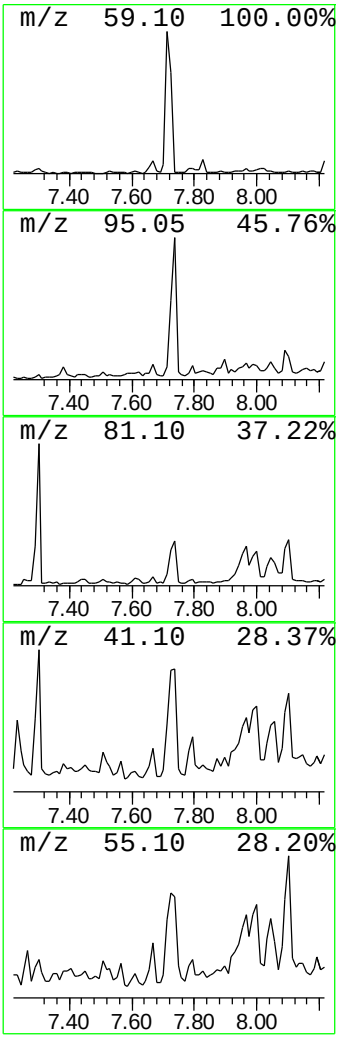
**********

Peak Number 5 unknown7.72 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 8.81 ng | 821553 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanemethanol, .alpha.,.al... | 156 | C10H20O | 000498-81-7 | 43 |
| 2 | 1-Cyclohexyl-2-methyl-2-propanol | 156 | C10H20O | 005531-30-6 | 40 |
| 3 | 5-Hydroxy-4-hydroxymethyl-1-(1-h... | 186 | C10H18O3 | 087096-72-8 | 38 |
| 4 | 2-(3,4-Dibromo-4-methylcyclohexy... | 312 | C10H18Br2O | 110202-13-6 | 37 |
| 5 | Cyclohexanemethanol, .alpha.,.al... | 156 | C10H20O | 007322-63-6 | 32 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

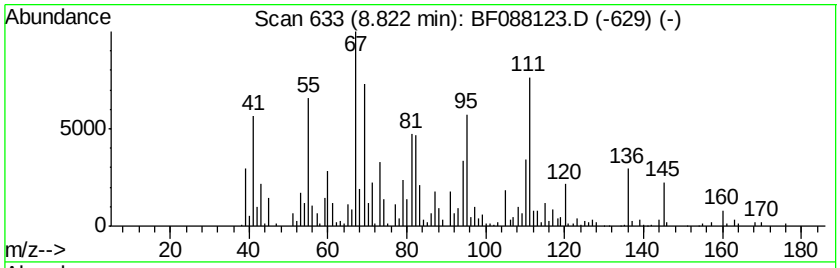
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

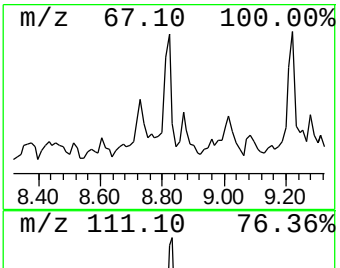
**********

Peak Number 6 unknown8.82 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.82 | 6.16 ng | 574107 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Methyl-2-methylenecyclohexane | 110 | C8H14 | 002808-75-5 | 46 |
| 2 | 1-Methylcycloheptene | 110 | C8H14 | 055308-20-8 | 46 |
| 3 | Cyclohexene, 1,6-dimethyl- | 110 | C8H14 | 001759-64-4 | 30 |
| 4 | 4-Pyridinol-1-oxide | 111 | C5H5NO2 | 006890-62-6 | 30 |
| 5 | 4-Octyne | 110 | C8H14 | 001942-45-6 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

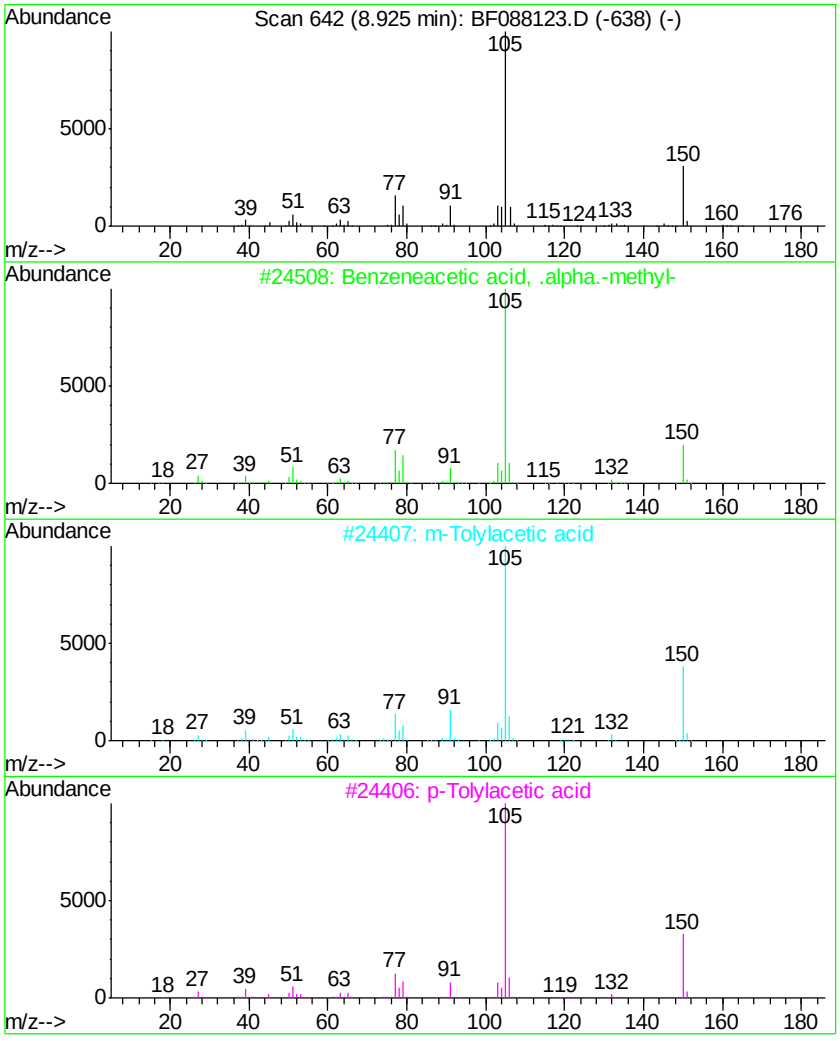
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

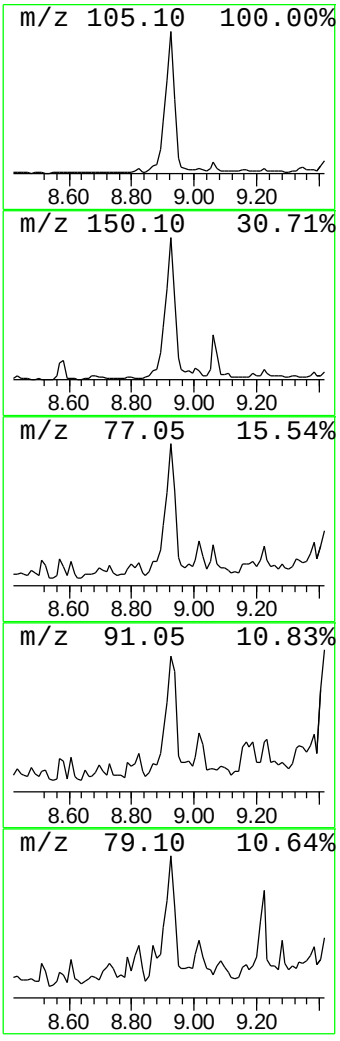
**********

Peak Number 7 Benzeneacetic acid, .alpha.... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.92 | 31.39 ng | 1147220 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetic acid, .alpha.-methyl- | 150 | C9H10O2 | 000492-37-5 | 91 |
| 2 | m-Tolylacetic acid | 150 | C9H10O2 | 000621-36-3 | 90 |
| 3 | p-Tolylacetic acid | 150 | C9H10O2 | 000622-47-9 | 90 |
| 4 | o-Tolylacetic acid | 150 | C9H10O2 | 000644-36-0 | 76 |
| 5 | Benzeneacetic acid, .alpha.-meth... | 150 | C9H10O2 | 007782-26-5 | 68 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

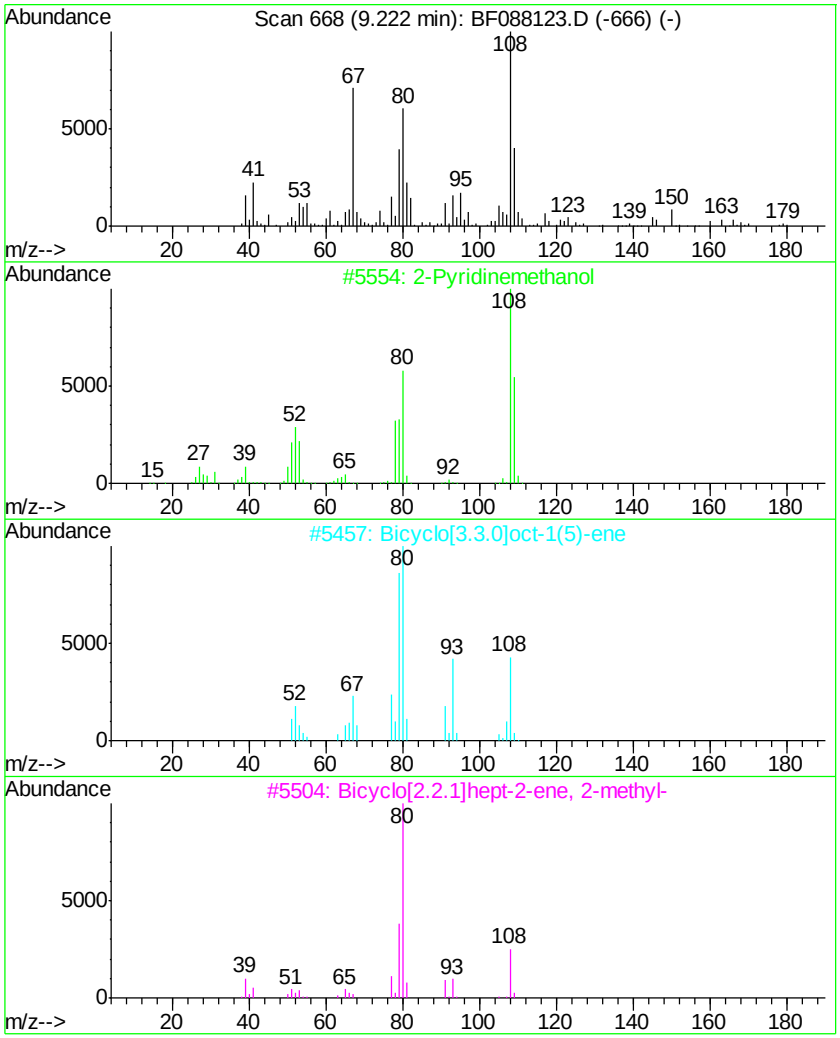
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

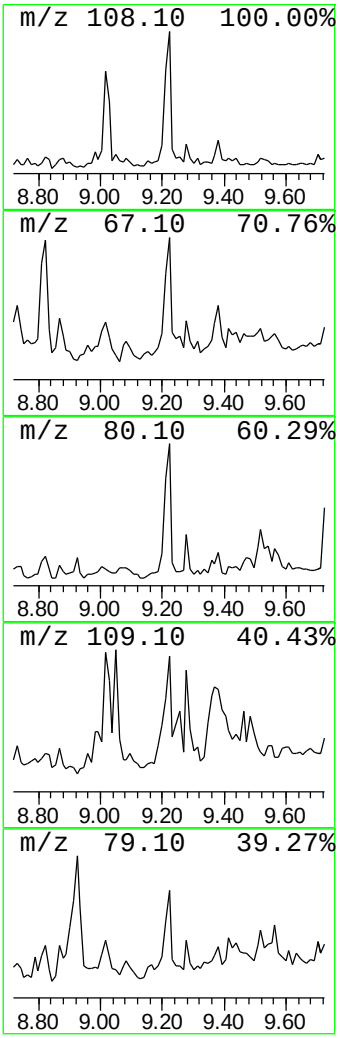
**********

Peak Number 8 2-Pyridinemethanol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.22 | 13.80 ng | 504121 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pyridinemethanol | 109 | C6H7NO | 000586-98-1 | 59 |
| 2 | Bicyclo[3.3.0]oct-1(5)-ene | 108 | C8H12 | 006491-93-6 | 58 |
| 3 | Bicyclo[2.2.1]hept-2-ene, 2-methyl- | 108 | C8H12 | 000694-92-8 | 46 |
| 4 | 2-Pyridinamine, 3-methyl- | 108 | C6H8N2 | 001603-40-3 | 38 |
| 5 | 2-Pyridinamine, 4-methyl- | 108 | C6H8N2 | 000695-34-1 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

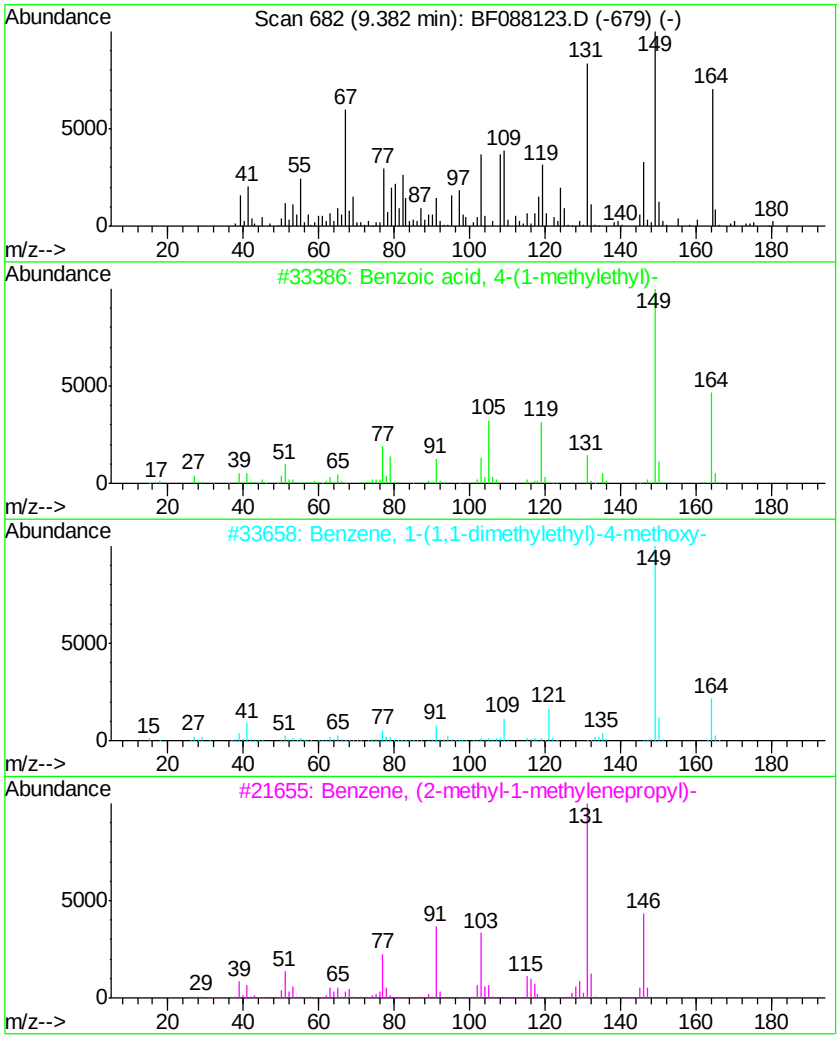
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

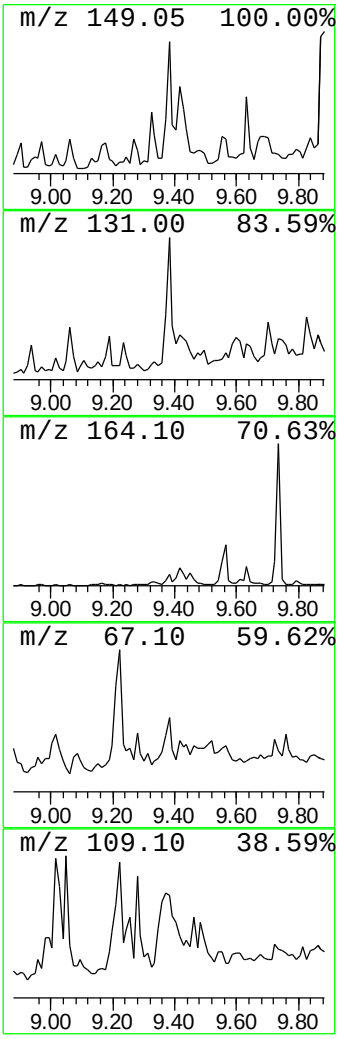
**********

Peak Number 9 unknown9.38 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.38 | 7.05 ng | 257701 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 4-(1-methylethyl)- | 164 | C10H12O2 | 000536-66-3 | 41 |
| 2 | Benzene, 1-(1,1-dimethylethyl)-4... | 164 | C11H16O | 005396-38-3 | 38 |
| 3 | Benzene, (2-methyl-1-methylenepr... | 146 | C11H14 | 017498-71-4 | 35 |
| 4 | 1,4-Benzenediamine, N,N'-diethyl- | 164 | C10H16N2 | 003010-30-8 | 30 |
| 5 | Benzene, 1-methoxy-4-methyl-2-(1... | 164 | C11H16O | 031574-44-4 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

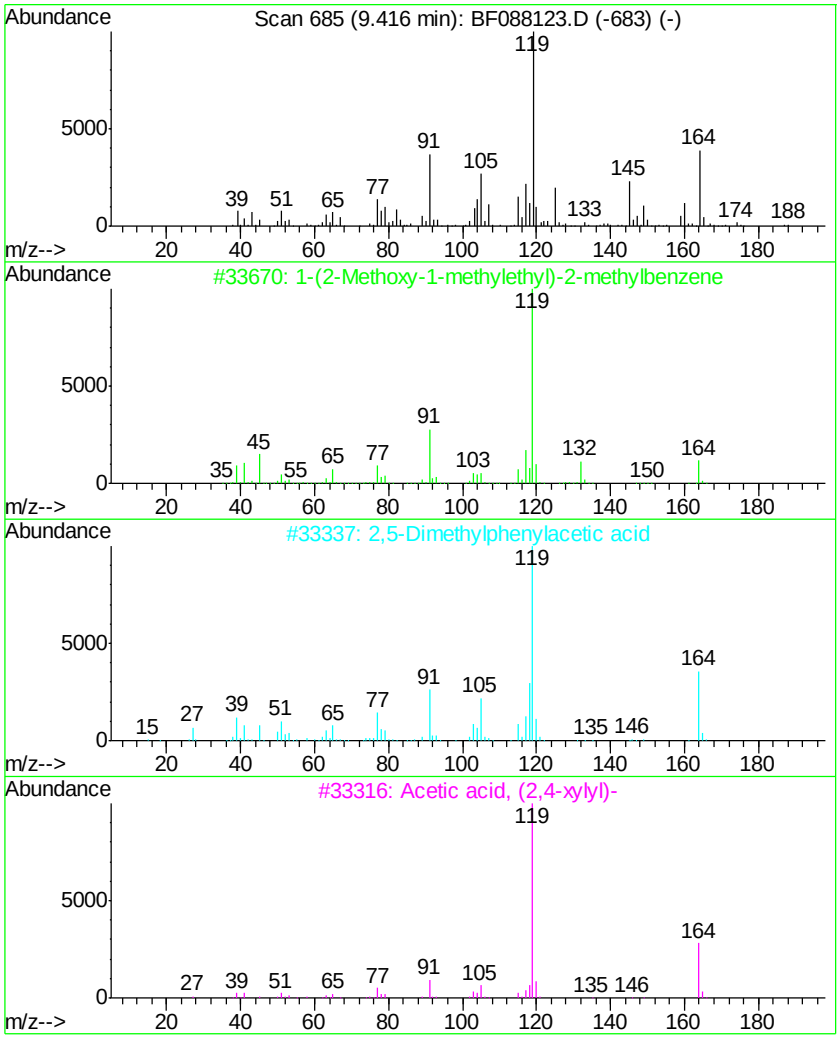
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

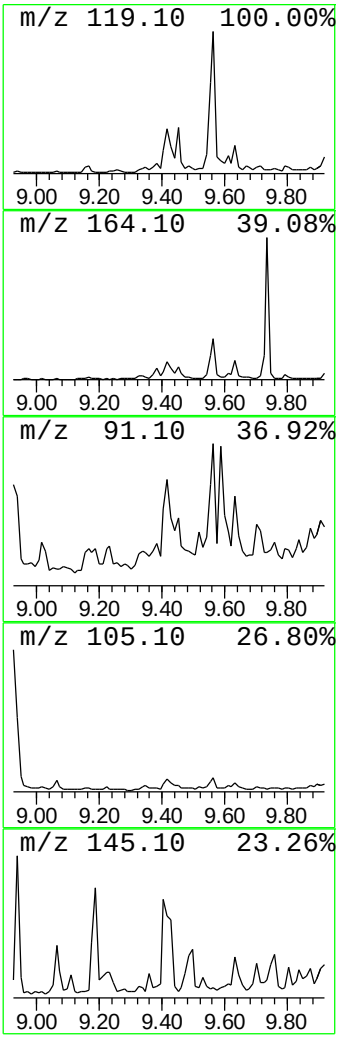
**********

Peak Number 10 1-(2-Methoxy-1-methylethyl)... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.42 | 14.56 ng | 531929 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(2-Methoxy-1-methylethyl)-2-me... | 164 | C11H16O | 1000210-02-1 | 50 |
| 2 | 2,5-Dimethylphenylacetic acid | 164 | C10H12O2 | 1000342-65-5 | 49 |
| 3 | Acetic acid, (2,4-xylyl)- | 164 | C10H12O2 | 006331-04-0 | 47 |
| 4 | 3,5-Dimethylphenylacetic acid | 164 | C10H12O2 | 042288-46-0 | 46 |
| 5 | Ethyl 4-methylbenzoate | 164 | C10H12O2 | 000094-08-6 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

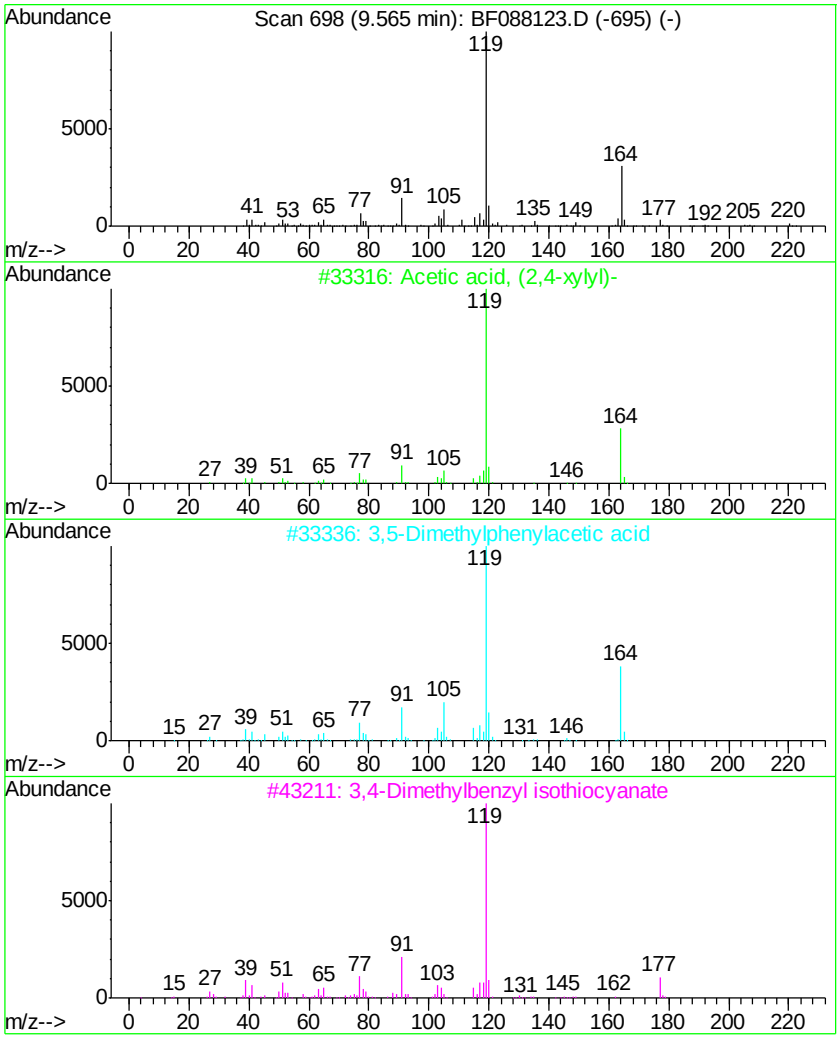
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

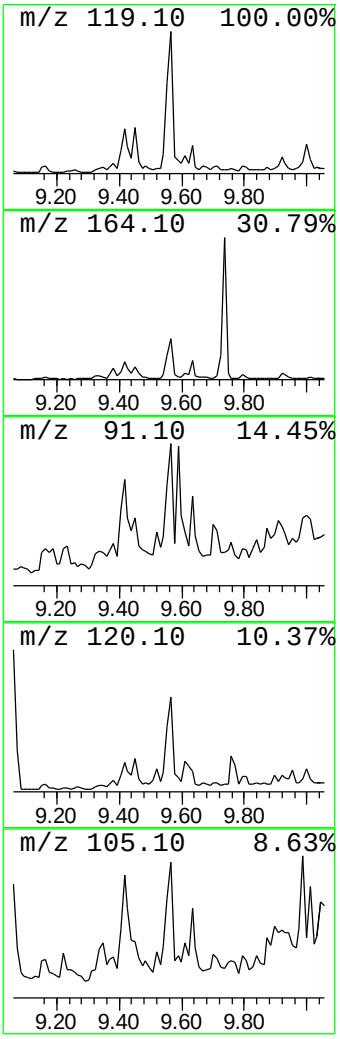
**********

Peak Number 11 Acetic acid, (2,4-xylyl)- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.56 | 16.31 ng | 596081 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, (2,4-xylyl)- | 164 | C10H12O2 | 006331-04-0 | 87 |
| 2 | 3,5-Dimethylphenylacetic acid | 164 | C10H12O2 | 042288-46-0 | 87 |
| 3 | 3,4-Dimethylbenzyl isothiocyanate | 177 | C10H11NS | 206559-59-3 | 58 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 53 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 53 |



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Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

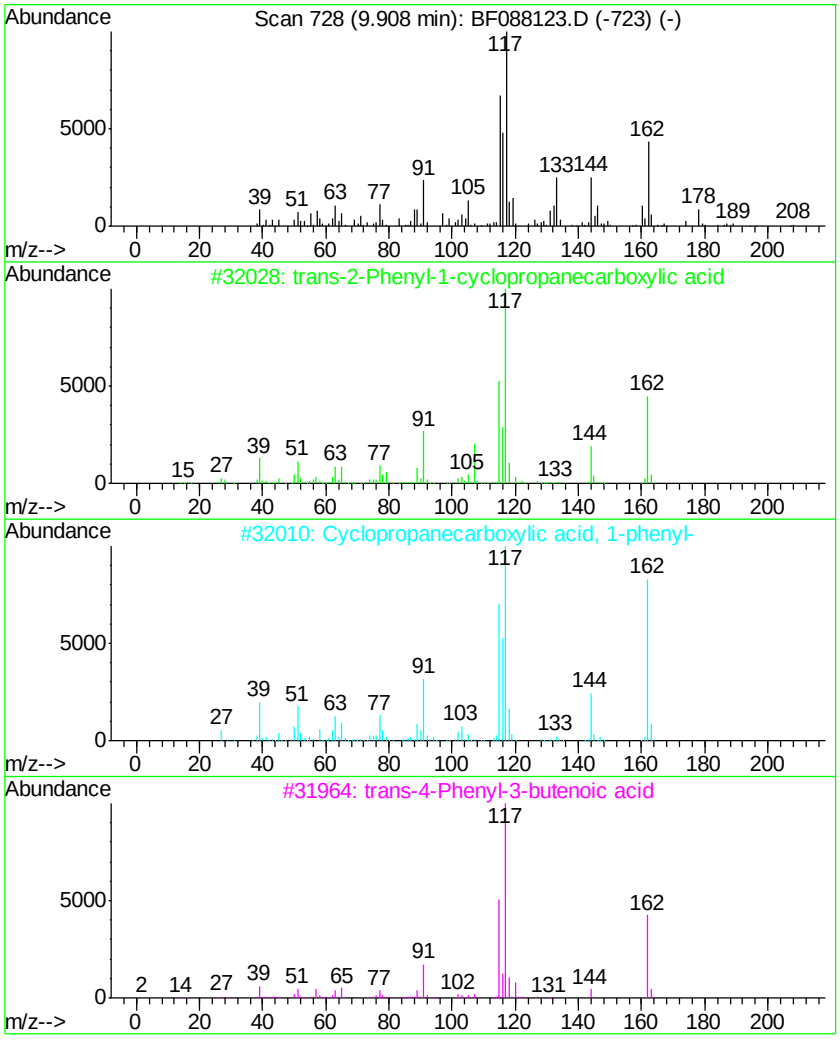
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

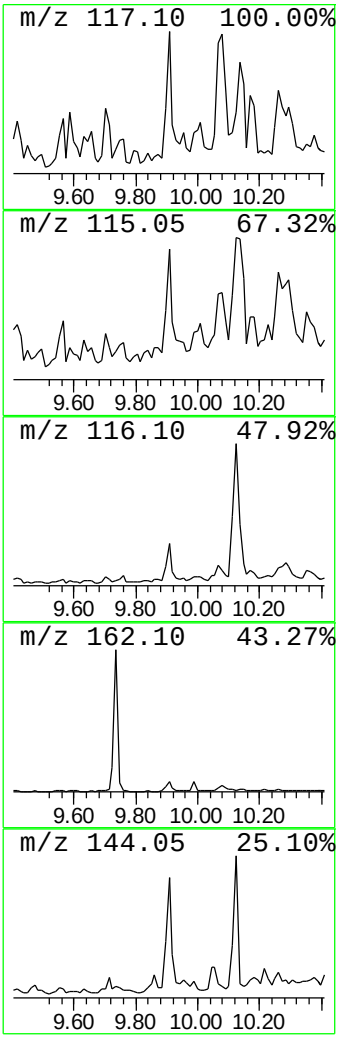
**********

Peak Number 12 trans-2-Phenyl-1-cyclopropa... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.91 | 20.70 ng | 756527 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-2-Phenyl-1-cyclopropanecar... | 162 | C10H10O2 | 000939-90-2 | 86 |
| 2 | Cyclopropanecarboxylic acid, 1-p... | 162 | C10H10O2 | 006120-95-2 | 76 |
| 3 | trans-4-Phenyl-3-butenoic acid | 162 | C10H10O2 | 001914-58-5 | 60 |
| 4 | 3-Butenoic acid, 4-phenyl- | 162 | C10H10O2 | 002243-53-0 | 55 |
| 5 | 3-Bromo-1-phenyl-1-propene | 196 | C9H9Br | 004392-24-9 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

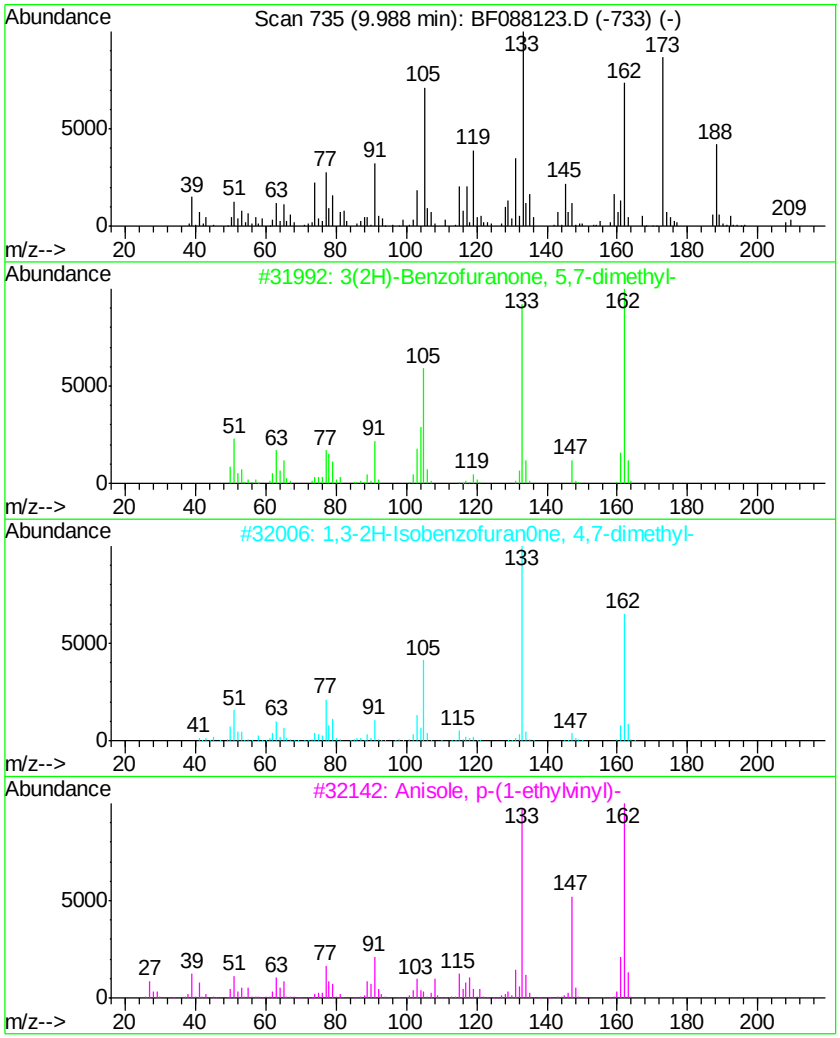
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

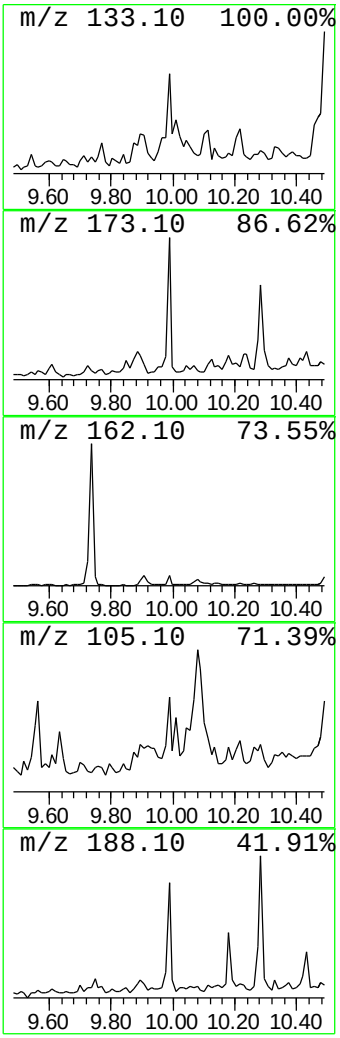
**********

Peak Number 13 unknown9.99 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.99 | 15.22 ng | 556086 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3(2H)-Benzofuranone, 5,7-dimethyl- | 162 | C10H10O2 | 020895-46-9 | 46 |
| 2 | 1,3-2H-Isobenzofuran0ne, 4,7-dim... | 162 | C10H10O2 | 054598-91-3 | 38 |
| 3 | Anisole, p-(1-ethylvinyl)- | 162 | C11H14O | 021758-19-0 | 35 |
| 4 | 3(2H)-Benzofuranone, 4,7-dimethyl- | 162 | C10H10O2 | 020895-45-8 | 30 |
| 5 | 2-Cyclopenten-1-one, 3-methyl-2-... | 162 | C11H14O | 022610-80-6 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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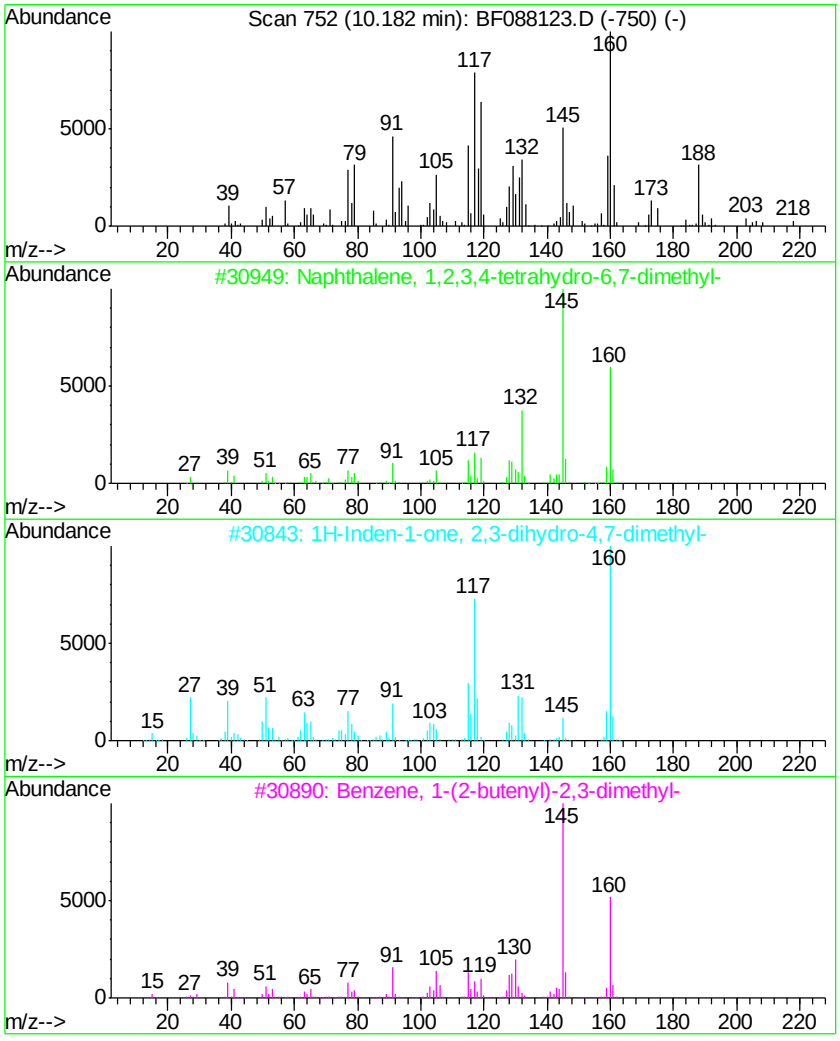
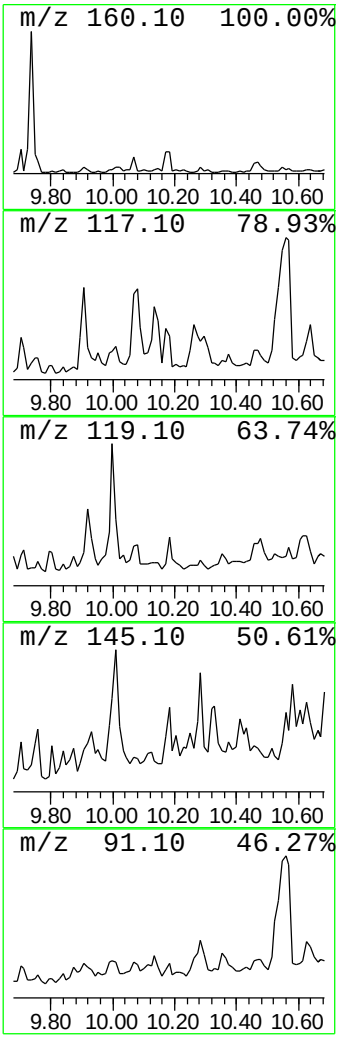
Peak Number 14 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.18 | 5.97 ng | 218007 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 001076-61-5 | 68 |
| 2 | 1H-Inden-1-one, 2,3-dihydro-4,7-... | 160 | C11H12O | 005037-60-5 | 53 |
| 3 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 52 |
| 4 | Benzene, 1-(1,1-dimethylethyl)-4... | 160 | C12H16 | 001746-23-2 | 43 |
| 5 | 2,6-Dihydroxynaphthalene | 160 | C10H8O2 | 000581-43-1 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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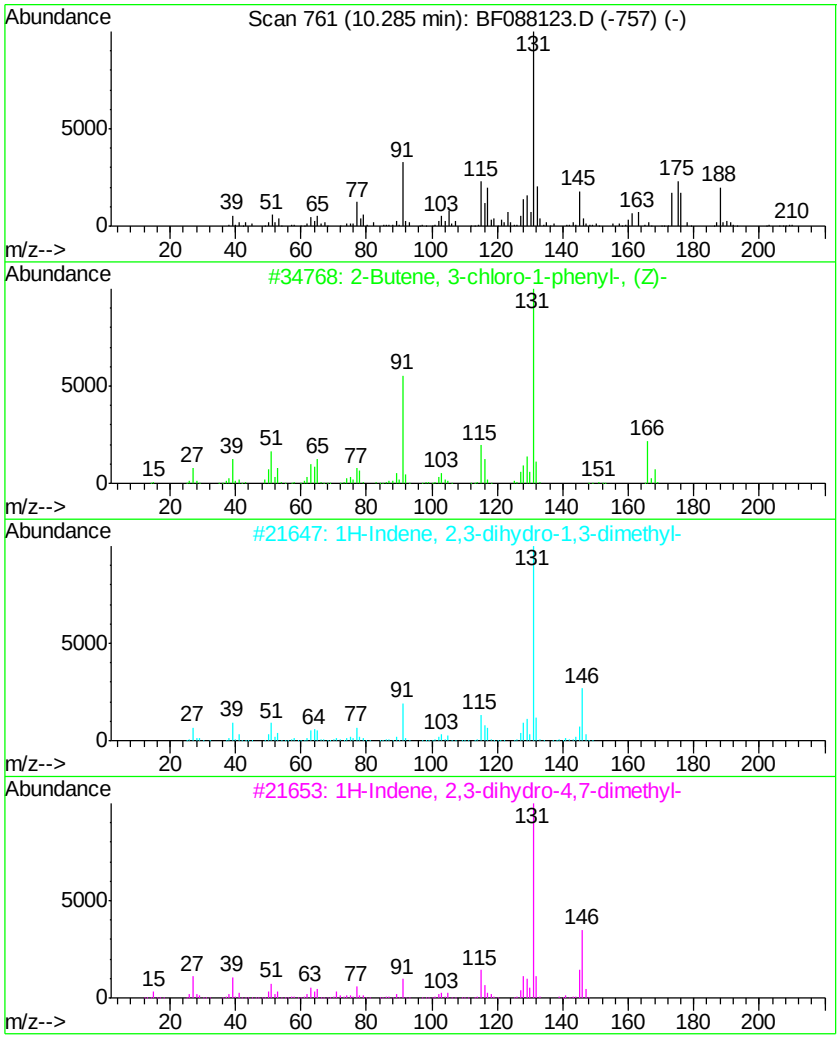
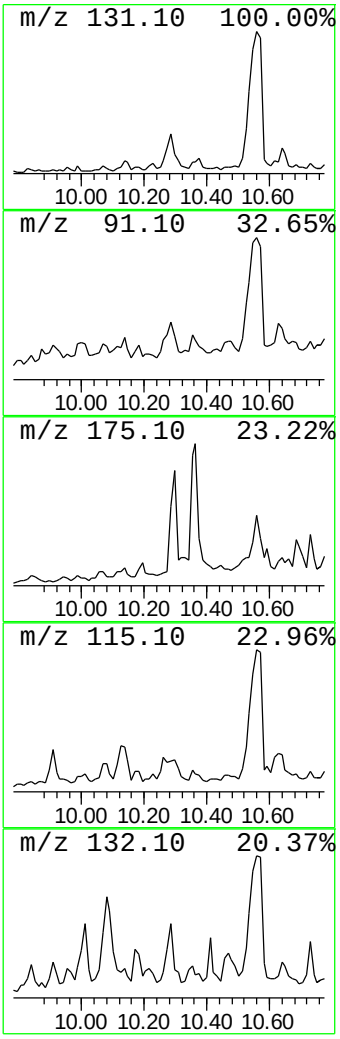
Peak Number 15 2-Butene, 3-chloro-1-phenyl... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.28 | 17.54 ng | 640912 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butene, 3-chloro-1-phenyl-, (Z)- | 166 | C10H11Cl | 016608-68-7 | 50 |
| 2 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 46 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 45 |
| 4 | Benzene, (2-chloro-2-butenyl)- | 166 | C10H11Cl | 054411-12-0 | 45 |
| 5 | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14 | 052161-57-6 | 43 |



# Library Search Compound Report

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Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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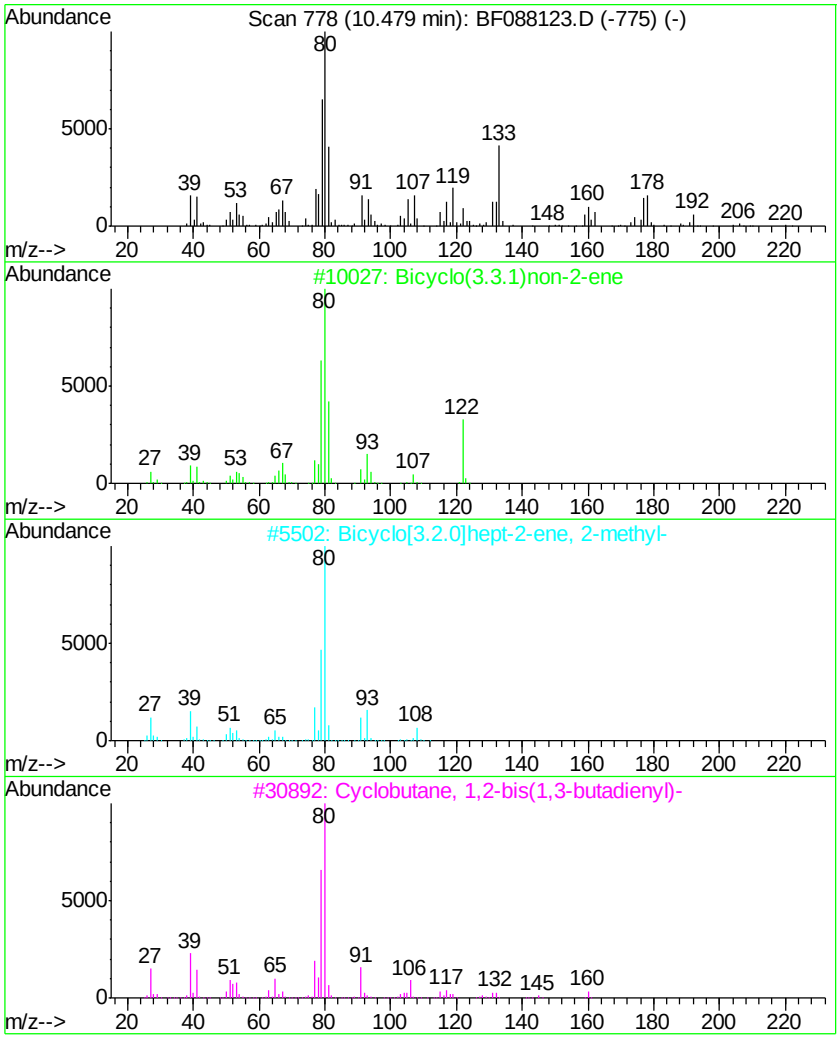
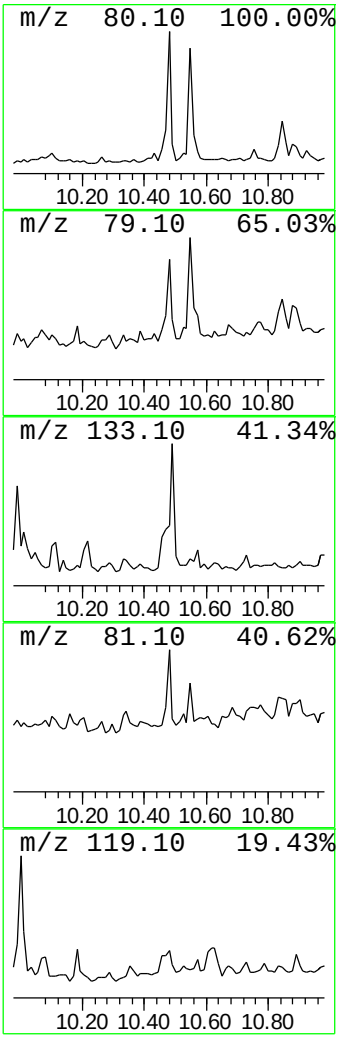
Peak Number 16 Bicyclo(3.3.1)non-2-ene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.48 | 12.79 ng | 467426 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo(3.3.1)non-2-ene | 122 | C9H14 | 006671-66-5 | 68 |
| 2 | Bicyclo[3.2.0]hept-2-ene, 2-methyl- | 108 | C8H12 | 094122-58-4 | 64 |
| 3 | Cyclobutane, 1,2-bis(1,3-butadie... | 160 | C12H16 | 080344-53-2 | 64 |
| 4 | Bicyclo[2.2.2]oct-5-en-2-one | 122 | C8H10O | 002220-40-8 | 64 |
| 5 | Bicyclo[2.2.2]oct-5-en-2-ol | 124 | C8H12O | 055320-40-6 | 59 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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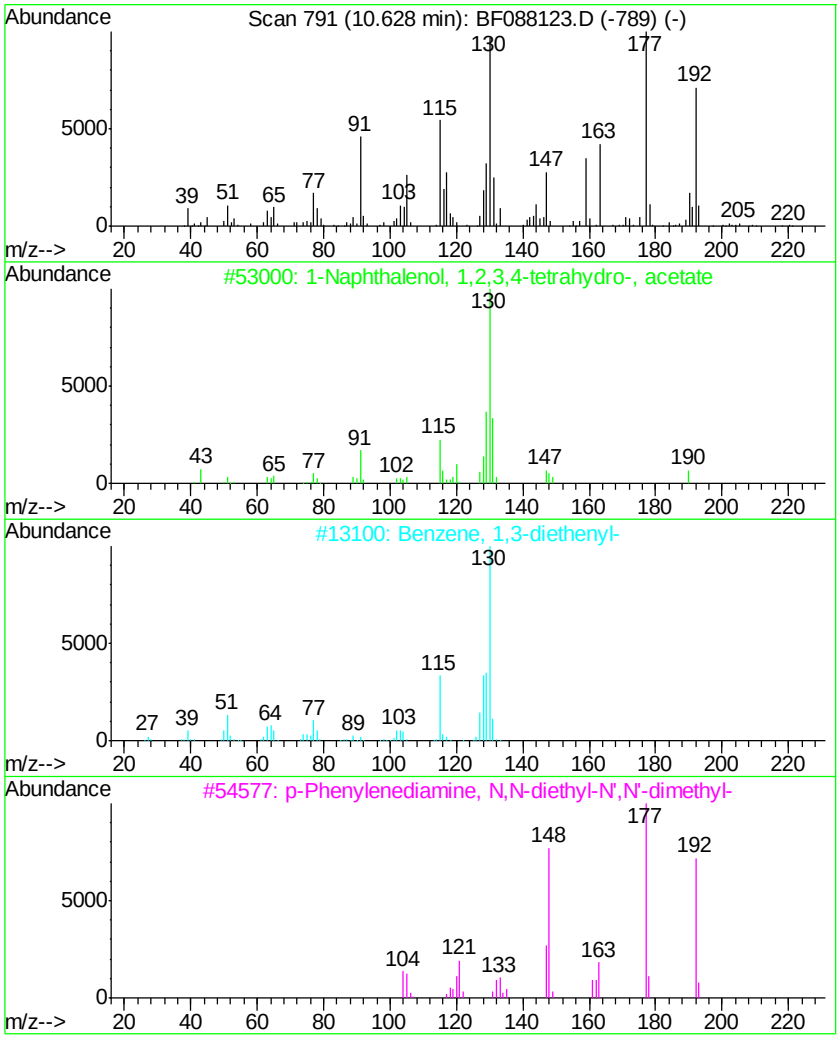
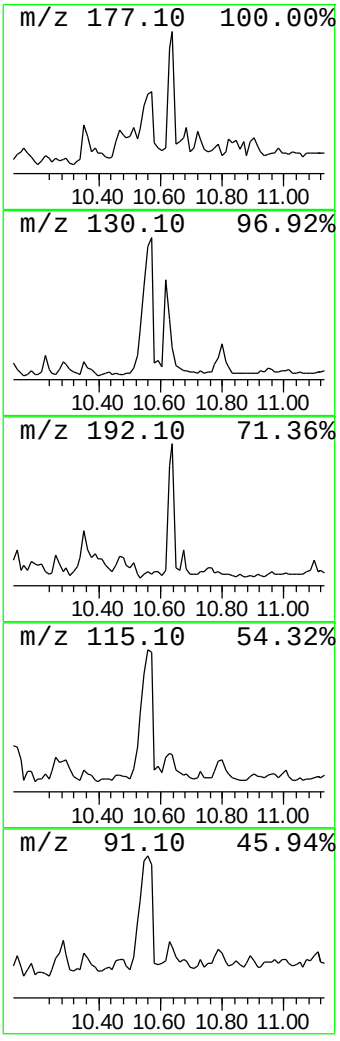
Peak Number 17 unknown10.63 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 18.76 ng | 675605 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenol, 1,2,3,4-tetrahyd... | 190 | C12H14O2 | 021503-12-8 | 38 |
| 2 | Benzene, 1,3-diethenyl- | 130 | C10H10 | 000108-57-6 | 38 |
| 3 | p-Phenylenediamine, N,N-diethyl-... | 192 | C12H20N2 | 005775-53-1 | 30 |
| 4 | 1-(4-Methoxymethyl-2,6-dimethylp... | 192 | C12H16O2 | 1000202-02-2 | 25 |
| 5 | Benzene, 1,4-diethenyl- | 130 | C10H10 | 000105-06-6 | 22 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

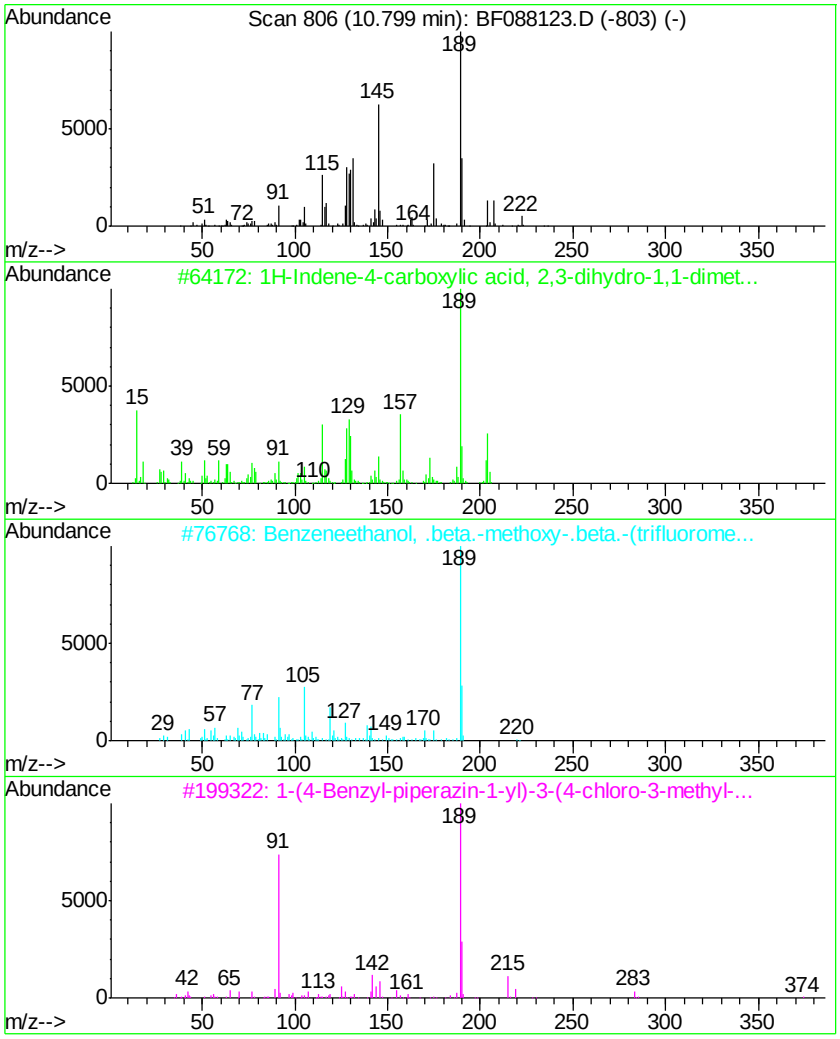
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

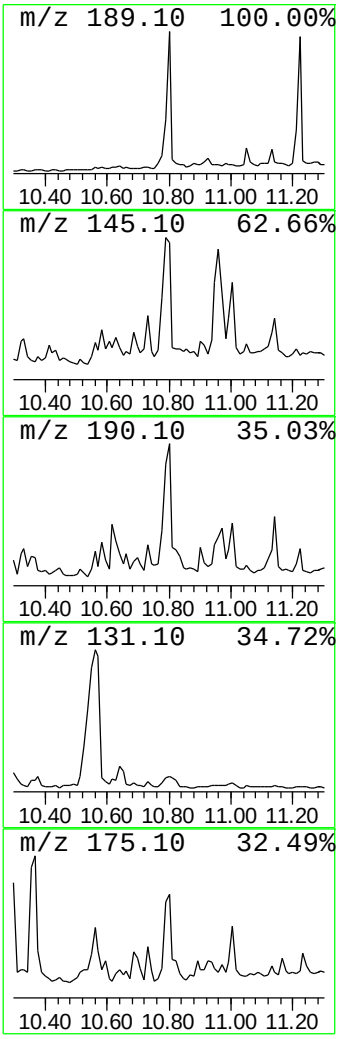
**********

Peak Number 18 unknown10.80 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 21.30 ng | 766983 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene-4-carboxylic acid, 2,3... | 204 | C13H16O2 | 055591-11-2 | 38 |
| 2 | Benzeneethanol, .beta.-methoxy-.... | 220 | C10H11F3O2 | 052356-17-9 | 27 |
| 3 | 1-(4-Benzyl-piperazin-1-yl)-3-(4... | 374 | C21H27ClN2O2 | 1000275-13-1 | 27 |
| 4 | 1H-Pyrazole, 4-nitro-1-phenyl- | 189 | C9H7N3O2 | 1000362-11-8 | 27 |
| 5 | 4-Nitro-1-naphthol | 189 | C10H7NO3 | 000605-62-9 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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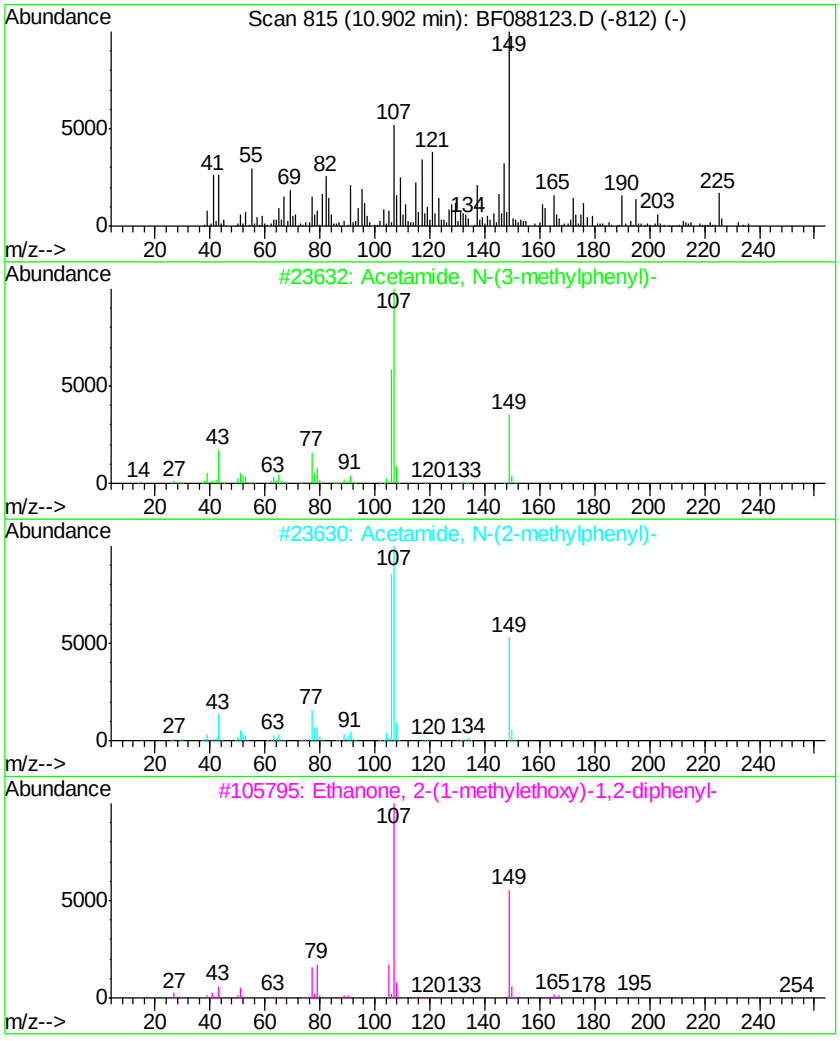
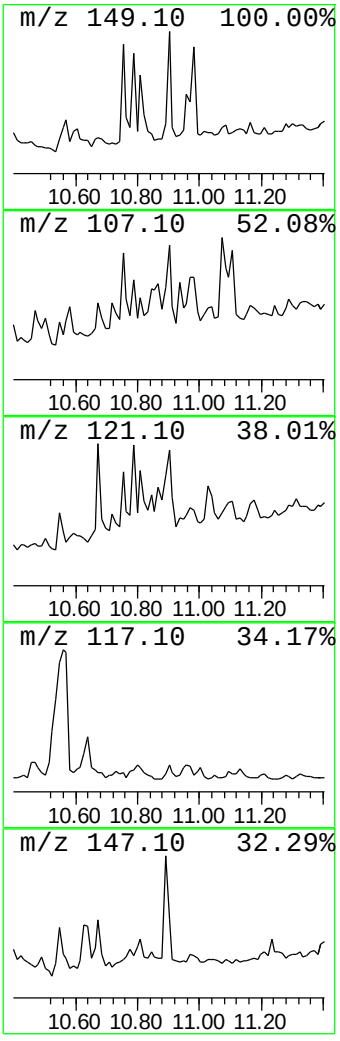
Peak Number 19 unknown10.90 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 10.35 ng | 372831 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(3-methylphenyl)- | 149 | C9H11NO | 000537-92-8 | 43 |
| 2 | Acetamide, N-(2-methylphenyl)- | 149 | C9H11NO | 000120-66-1 | 38 |
| 3 | Ethanone, 2-(1-methylethoxy)-1,2... | 254 | C17H18O2 | 006652-28-4 | 32 |
| 4 | Diethyl Phthalate | 222 | C12H14O4 | 000084-66-2 | 18 |
| 5 | Formic acid, 2-(3-nitrophenyl)et... | 195 | C9H9NO4 | 1000368-22-2 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

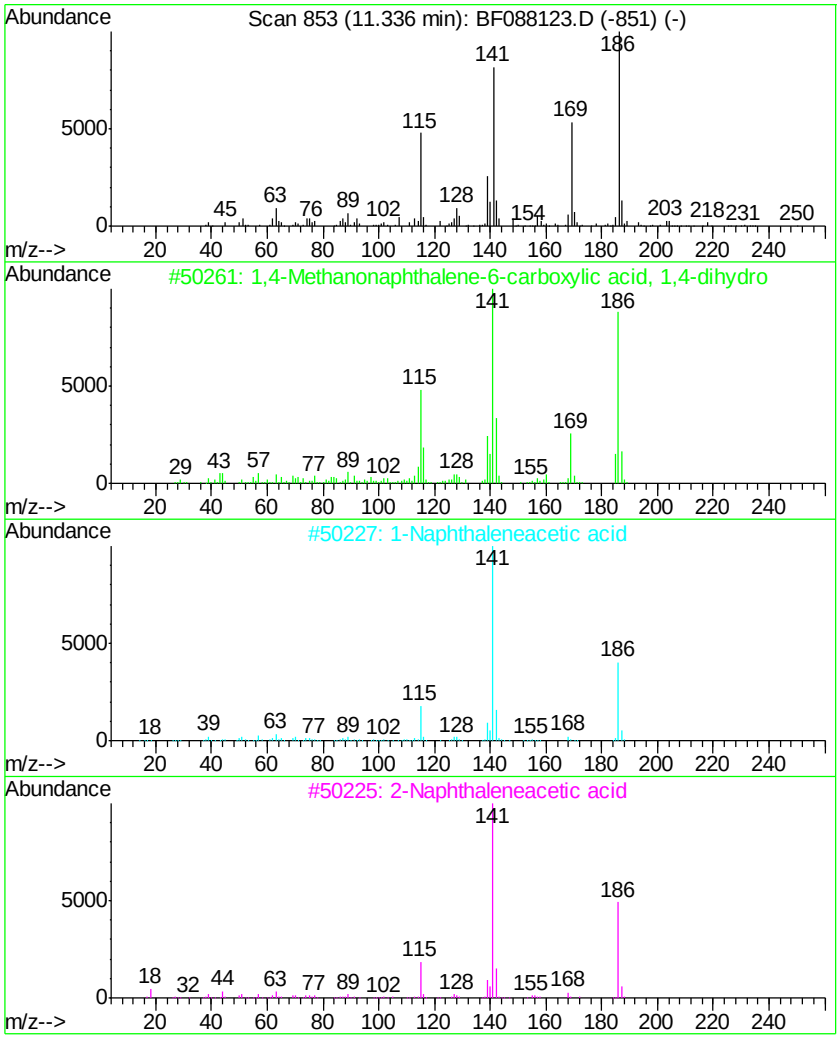
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

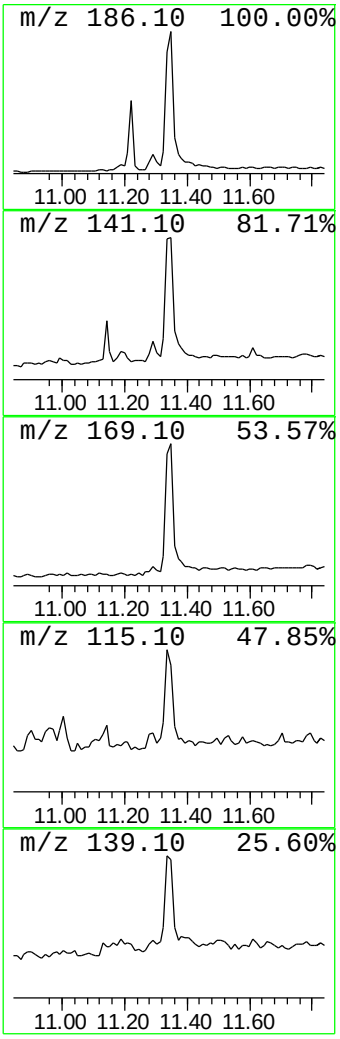
**********

Peak Number 20 1,4-Methanonaphthalene-6-ca... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.34 | 7.00 ng | 252082 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Methanonaphthalene-6-carboxy... | 186 | C12H10O2 | 063509-76-2 | 80 |
| 2 | 1-Naphthaleneacetic acid | 186 | C12H10O2 | 000086-87-3 | 70 |
| 3 | 2-Naphthaleneacetic acid | 186 | C12H10O2 | 000581-96-4 | 43 |
| 4 | 4-Phenylpyrocatechol | 186 | C12H10O2 | 000092-05-7 | 38 |
| 5 | 5-Thiazolecarboxylic acid, 2-ami... | 186 | C7H10N2O2S | 007210-76-6 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061716\
Data File : BF088123.D
Acq On : 18 Jun 2016 6:29
Operator : UM/SJ
Sample : H3574-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-25

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown6.47 | 6.47 | 50.9 | ng | 1618450 | 1 | 6.70 | 636220 | 20.0 |
| unknown7.72 | 7.72 | 8.8 | ng | 821553 | 2 | 7.99 | 1864590 | 20.0 |
| unknown8.82 | 8.82 | 6.2 | ng | 574107 | 2 | 7.99 | 1864590 | 20.0 |
| Benzeneacetic aci... | 8.92 | 31.4 | ng | 1147220 | 3 | 9.74 | 730871 | 20.0 |
| 2-Pyridinemethanol | 9.22 | 13.8 | ng | 504121 | 3 | 9.74 | 730871 | 20.0 |
| unknown9.38 | 9.38 | 7.0 | ng | 257701 | 3 | 9.74 | 730871 | 20.0 |
| 1-(2-Methoxy-1-me... | 9.42 | 14.6 | ng | 531929 | 3 | 9.74 | 730871 | 20.0 |
| Acetic acid, (2,4... | 9.56 | 16.3 | ng | 596081 | 3 | 9.74 | 730871 | 20.0 |
| trans-2-Phenyl-1-... | 9.91 | 20.7 | ng | 756527 | 3 | 9.74 | 730871 | 20.0 |
| unknown9.99 | 9.99 | 15.2 | ng | 556086 | 3 | 9.74 | 730871 | 20.0 |
| Naphthalene, 1,2,... | 10.18 | 6.0 | ng | 218007 | 3 | 9.74 | 730871 | 20.0 |
| 2-Butene, 3-chlor... | 10.28 | 17.5 | ng | 640912 | 3 | 9.74 | 730871 | 20.0 |
| Bicyclo(3.3.1)non... | 10.48 | 12.8 | ng | 467426 | 3 | 9.74 | 730871 | 20.0 |
| unknown10.63 | 10.63 | 18.8 | ng | 675605 | 4 | 11.22 | 720307 | 20.0 |
| unknown10.80 | 10.80 | 21.3 | ng | 766983 | 4 | 11.22 | 720307 | 20.0 |
| unknown10.90 | 10.90 | 10.4 | ng | 372831 | 4 | 11.22 | 720307 | 20.0 |
| 1,4-Methanonaphth... | 11.34 | 7.0 | ng | 252082 | 4 | 11.22 | 720307 | 20.0 |