LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

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-BF121716.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 | 4.247 | 187 | 189 | 193 | rBV | 84912 | 116144 | 1.55% | 0.154% |
| 2 | 4.921 | 246 | 248 | 251 | rBV | 1012773 | 1228491 | 16.37% | 1.631% |
| 3 | 5.356 | 284 | 286 | 289 | rBV | 2574553 | 3636935 | 48.47% | 4.829% |
| 4 | 6.407 | 375 | 378 | 380 | rBV | 1994535 | 2310054 | 30.79% | 3.067% |
| 5 | 6.533 | 386 | 389 | 391 | rBV | 5456511 | 5899393 | 78.62% | 7.832% |
| 6 | 6.693 | 401 | 403 | 406 | rVB4 | 39556 | 77640 | 1.03% | 0.103% |
| 7 | 6.762 | 406 | 409 | 411 | rBV | 1258925 | 1498158 | 19.97% | 1.989% |
| 8 | 6.910 | 420 | 422 | 425 | rVB | 3586193 | 5075601 | 67.64% | 6.739% |
| 9 | 7.105 | 436 | 439 | 442 | rBV | 142955 | 193451 | 2.58% | 0.257% |
| 10 | 7.276 | 450 | 454 | 456 | rBV2 | 187423 | 259814 | 3.46% | 0.345% |
| 11 | 7.322 | 456 | 458 | 460 | rBV | 2892652 | 4460830 | 59.45% | 5.923% |
| 12 | 7.367 | 460 | 462 | 464 | rVB2 | 84078 | 129225 | 1.72% | 0.172% |
| 13 | 7.459 | 467 | 470 | 475 | rBV3 | 126654 | 297508 | 3.96% | 0.395% |
| 14 | 7.585 | 478 | 481 | 483 | rBV | 444423 | 448491 | 5.98% | 0.595% |
| 15 | 7.619 | 483 | 484 | 486 | rVB | 177745 | 210711 | 2.81% | 0.280% |
| 16 | 7.802 | 494 | 500 | 503 | rBV4 | 122595 | 309209 | 4.12% | 0.411% |
| 17 | 7.859 | 503 | 505 | 507 | rVB3 | 70021 | 117338 | 1.56% | 0.156% |
| 18 | 7.905 | 507 | 509 | 511 | rBV | 89143 | 131291 | 1.75% | 0.174% |
| 19 | 7.962 | 511 | 514 | 515 | rBV | 330905 | 361084 | 4.81% | 0.479% |
| 20 | 8.042 | 519 | 521 | 524 | rBV | 2077845 | 2038580 | 27.17% | 2.707% |
| 21 | 8.099 | 524 | 526 | 529 | rVB3 | 133040 | 189781 | 2.53% | 0.252% |
| 22 | 8.156 | 529 | 531 | 533 | rBV2 | 159878 | 249994 | 3.33% | 0.332% |
| 23 | 8.202 | 533 | 535 | 537 | rBV3 | 76169 | 118958 | 1.59% | 0.158% |
| 24 | 8.270 | 539 | 541 | 542 | rBV | 82301 | 124249 | 1.66% | 0.165% |
| 25 | 8.328 | 544 | 546 | 548 | rBV2 | 123243 | 222367 | 2.96% | 0.295% |
| 26 | 8.373 | 548 | 550 | 551 | rBV | 155406 | 211688 | 2.82% | 0.281% |
| 27 | 8.442 | 551 | 556 | 557 | rBV5 | 78306 | 183659 | 2.45% | 0.244% |
| 28 | 8.488 | 557 | 560 | 561 | rVB2 | 211634 | 251012 | 3.35% | 0.333% |
| 29 | 8.522 | 561 | 563 | 565 | rBV | 555617 | 519808 | 6.93% | 0.690% |
| 30 | 8.579 | 565 | 568 | 569 | rBV | 142819 | 161212 | 2.15% | 0.214% |
| 31 | 8.602 | 569 | 570 | 574 | rVB4 | 179702 | 308541 | 4.11% | 0.410% |
| 32 | 8.705 | 574 | 579 | 581 | rBV5 | 165892 | 411376 | 5.48% | 0.546% |
| 33 | 8.762 | 581 | 584 | 585 | rBV | 369000 | 472769 | 6.30% | 0.628% |
| 34 | 8.796 | 585 | 587 | 589 | rVB | 336471 | 500987 | 6.68% | 0.665% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

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-BF121716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.853 | 590 | 592 | 594 | rVB2 | 208467 | 178932 | 2.38% | 0.238% |
| 36 | 8.910 | 594 | 597 | 598 | rBV3 | 226517 | 321660 | 4.29% | 0.427% |
| 37 | 8.968 | 601 | 602 | 603 | rBV | 167724 | 117968 | 1.57% | 0.157% |
| 38 | 9.025 | 603 | 607 | 608 | rBV2 | 164321 | 413367 | 5.51% | 0.549% |
| 39 | 9.048 | 608 | 609 | 610 | rVB | 454453 | 311755 | 4.15% | 0.414% |
| 40 | 9.082 | 610 | 612 | 613 | rBV | 458277 | 520453 | 6.94% | 0.691% |
| 41 | 9.128 | 613 | 616 | 618 | rVB | 7005373 | 7503758 | 100.00% | 9.963% |
| 42 | 9.185 | 618 | 621 | 622 | rBV | 162041 | 209392 | 2.79% | 0.278% |
| 43 | 9.219 | 622 | 624 | 625 | rBV | 413210 | 429772 | 5.73% | 0.571% |
| 44 | 9.253 | 625 | 627 | 628 | rBV | 111074 | 170012 | 2.27% | 0.226% |
| 45 | 9.310 | 628 | 632 | 634 | rVB | 971136 | 1323475 | 17.64% | 1.757% |
| 46 | 9.390 | 637 | 639 | 641 | rVB2 | 169118 | 241975 | 3.22% | 0.321% |
| 47 | 9.459 | 641 | 645 | 647 | rBV2 | 1030434 | 1702175 | 22.68% | 2.260% |
| 48 | 9.516 | 647 | 650 | 653 | rVB3 | 534576 | 1252746 | 16.69% | 1.663% |
| 49 | 9.573 | 653 | 655 | 656 | rBV | 129497 | 120868 | 1.61% | 0.160% |
| 50 | 9.608 | 656 | 658 | 660 | rVB3 | 362875 | 592576 | 7.90% | 0.787% |
| 51 | 9.665 | 660 | 663 | 666 | rBV2 | 476264 | 656148 | 8.74% | 0.871% |
| 52 | 9.733 | 666 | 669 | 671 | rBV2 | 214804 | 363968 | 4.85% | 0.483% |
| 53 | 9.802 | 671 | 675 | 677 | rBV | 1454626 | 2299356 | 30.64% | 3.053% |
| 54 | 9.870 | 677 | 681 | 682 | rVB4 | 107581 | 192669 | 2.57% | 0.256% |
| 55 | 9.928 | 683 | 686 | 688 | rBV4 | 230137 | 436240 | 5.81% | 0.579% |
| 56 | 9.996 | 689 | 692 | 693 | rBV | 287917 | 375519 | 5.00% | 0.499% |
| 57 | 10.076 | 697 | 699 | 700 | rBV2 | 238706 | 356445 | 4.75% | 0.473% |
| 58 | 10.111 | 700 | 702 | 704 | rVB3 | 468267 | 590201 | 7.87% | 0.784% |
| 59 | 10.179 | 704 | 708 | 710 | rVB3 | 293835 | 624927 | 8.33% | 0.830% |
| 60 | 10.213 | 710 | 711 | 714 | rVB3 | 239480 | 452094 | 6.02% | 0.600% |
| 61 | 10.293 | 714 | 718 | 721 | rBV4 | 290107 | 546985 | 7.29% | 0.726% |
| 62 | 10.373 | 724 | 725 | 727 | rBV2 | 219875 | 230575 | 3.07% | 0.306% |
| 63 | 10.431 | 727 | 730 | 734 | rBV2 | 576486 | 1158967 | 15.45% | 1.539% |
| 64 | 10.511 | 736 | 737 | 739 | rVB2 | 296673 | 366223 | 4.88% | 0.486% |
| 65 | 10.591 | 739 | 744 | 746 | rBV | 3494437 | 4106387 | 54.72% | 5.452% |
| 66 | 10.716 | 752 | 755 | 758 | rBV2 | 646212 | 1023807 | 13.64% | 1.359% |
| 67 | 10.876 | 767 | 769 | 773 | rBV4 | 260290 | 624129 | 8.32% | 0.829% |
| 68 | 10.945 | 773 | 775 | 777 | rBV3 | 307733 | 543691 | 7.25% | 0.722% |
| 69 | 11.048 | 782 | 784 | 790 | rVV4 | 371673 | 795109 | 10.60% | 1.056% |
| 70 | 11.151 | 792 | 793 | 795 | rVV | 586420 | 648565 | 8.64% | 0.861% |
| 71 | 11.196 | 795 | 797 | 799 | rVV2 | 254922 | 418153 | 5.57% | 0.555% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

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-BF121716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.276 | 802 | 804 | 807 | rVV | 1600691 | 1633868 | 21.77% | 2.169% |
| 73 | 11.368 | 810 | 812 | 816 | rVB3 | 354407 | 528401 | 7.04% | 0.702% |
| 74 | 11.836 | 851 | 853 | 856 | rVB2 | 751845 | 913044 | 12.17% | 1.212% |
| 75 | 12.614 | 919 | 921 | 923 | rBV | 298237 | 315079 | 4.20% | 0.418% |
| 76 | 12.648 | 923 | 924 | 926 | rVB | 217083 | 178912 | 2.38% | 0.238% |
| 77 | 12.865 | 940 | 943 | 945 | rBV | 4389471 | 4203996 | 56.03% | 5.582% |
| 78 | 13.768 | 1019 | 1022 | 1029 | rVB | 202000 | 323198 | 4.31% | 0.429% |
| 79 | 13.905 | 1032 | 1034 | 1037 | rVB | 1143536 | 1184641 | 15.79% | 1.573% |
| 80 | 15.311 | 1154 | 1157 | 1159 | rBV | 897713 | 1091373 | 14.54% | 1.449% |

Sum of corrected areas: 75319903

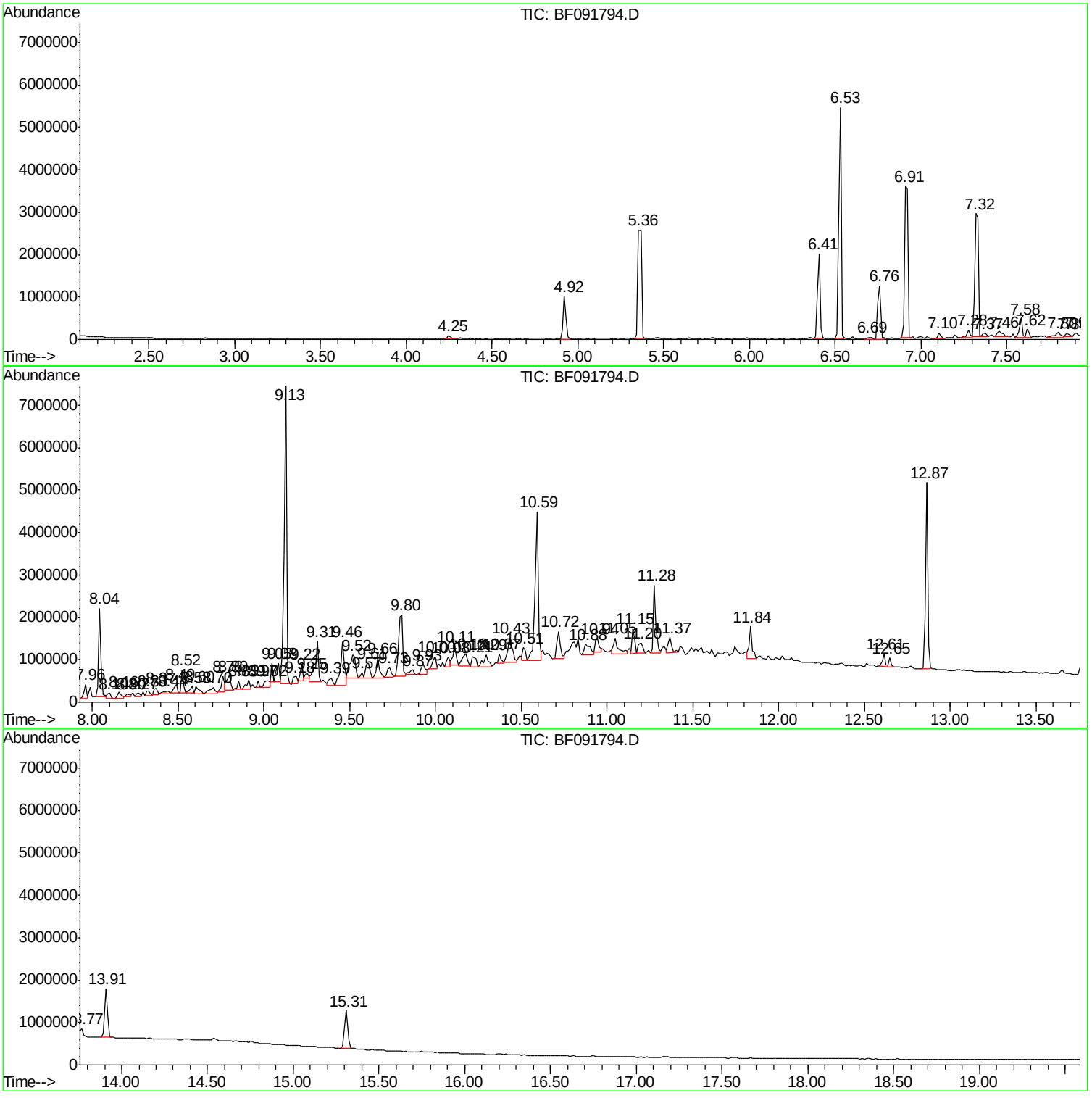
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

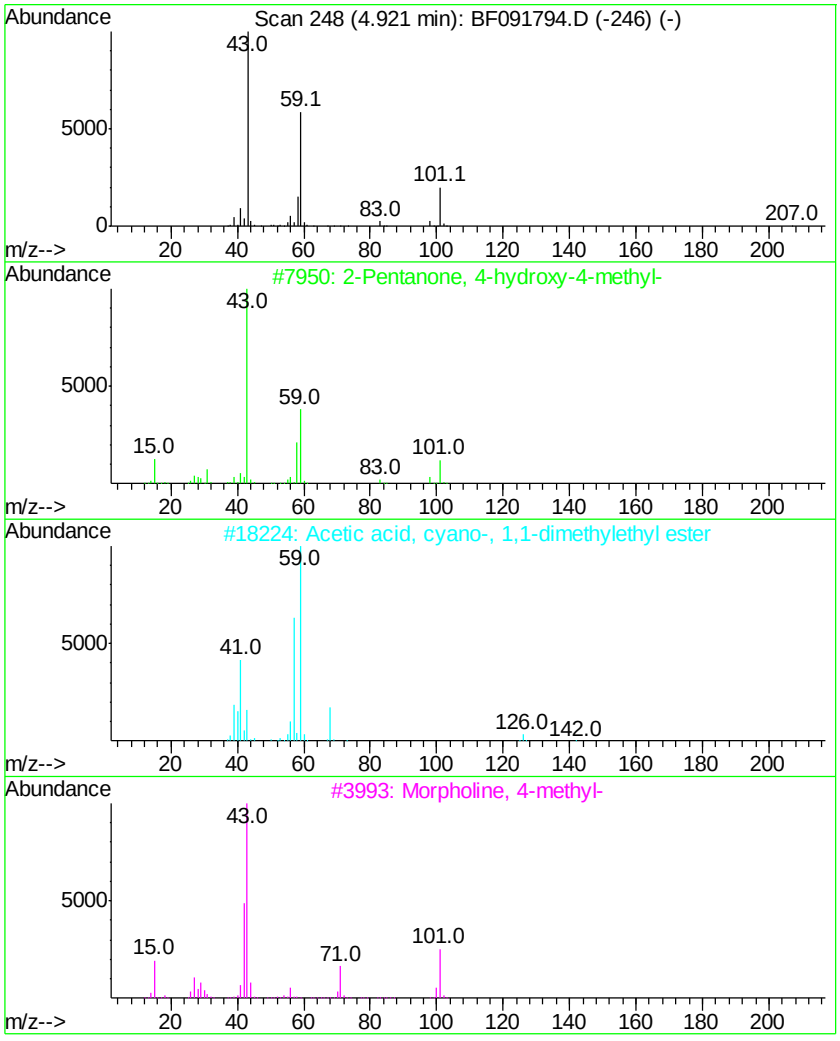
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

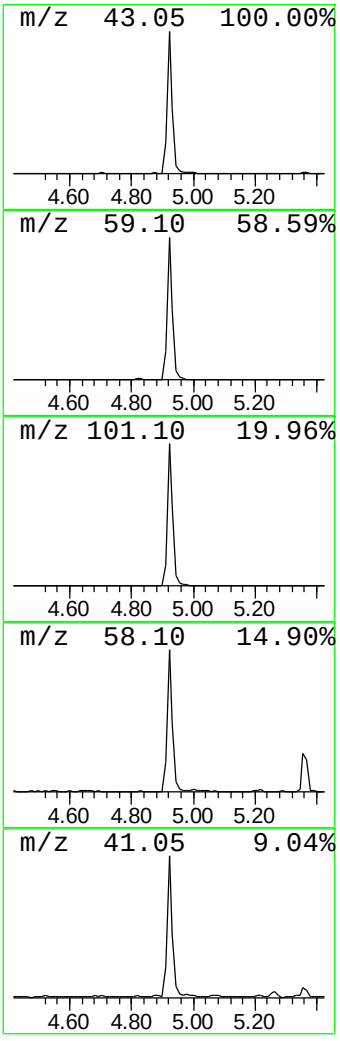
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 16.40 ng | 1228490 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

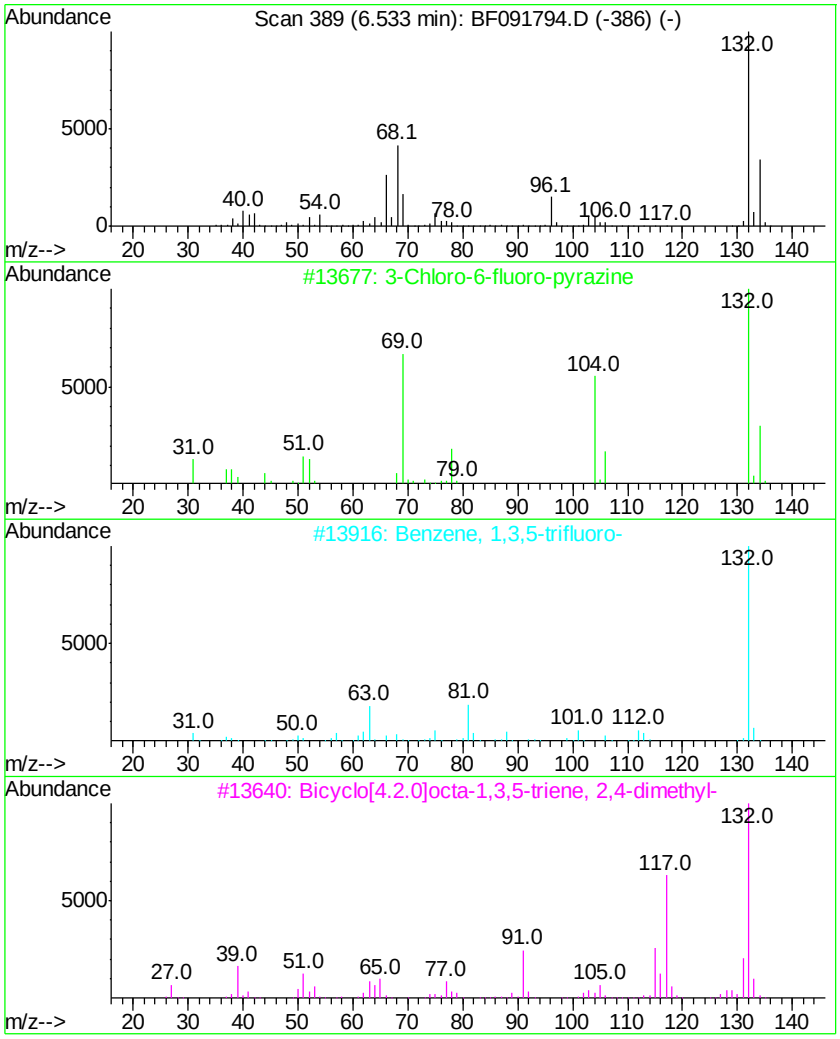
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

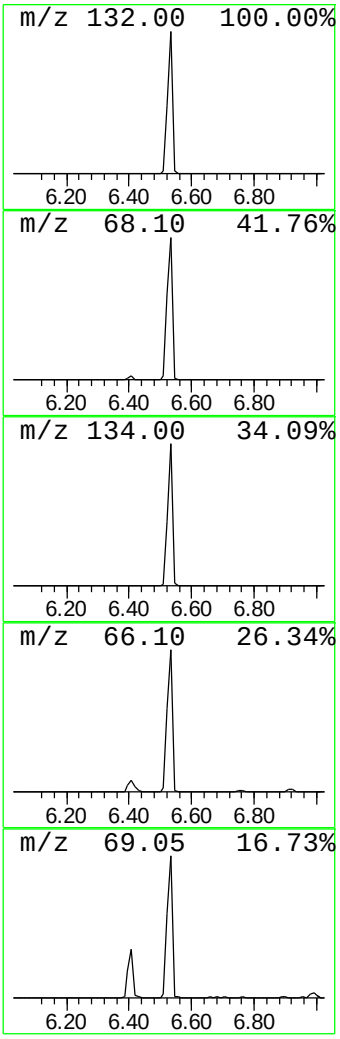
**********

Peak Number 2 unknown6.53 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.53 | 78.76 ng | 5899390 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

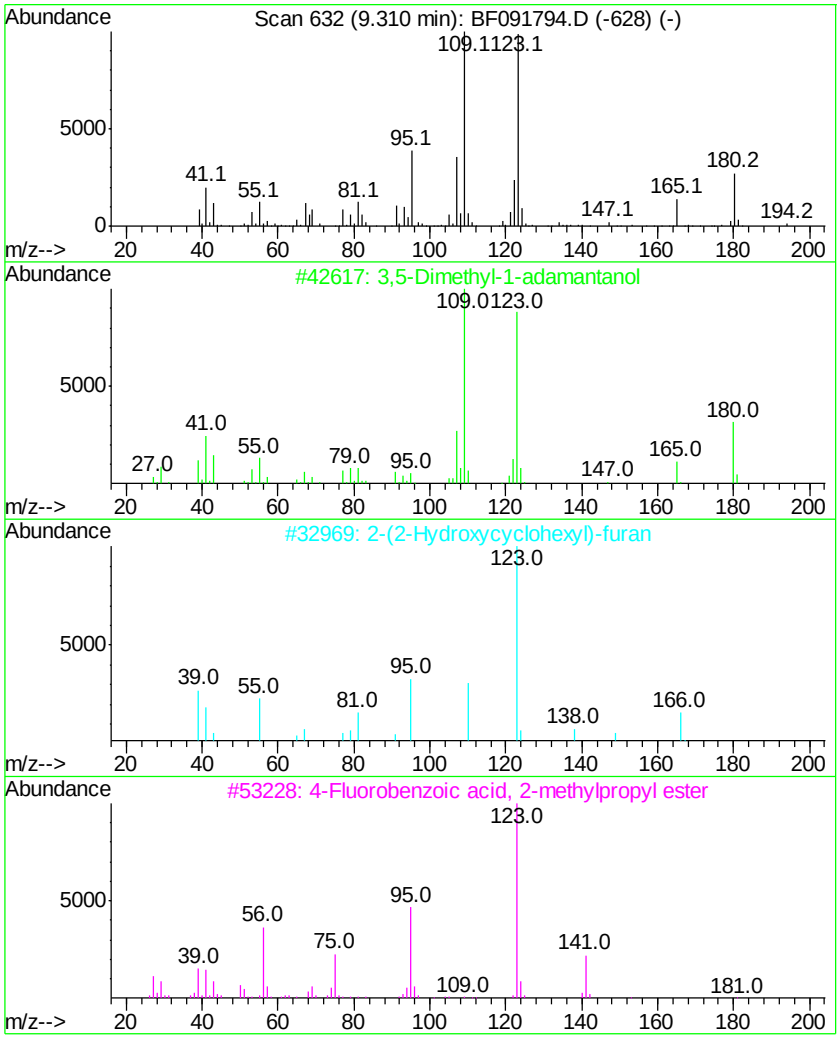
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

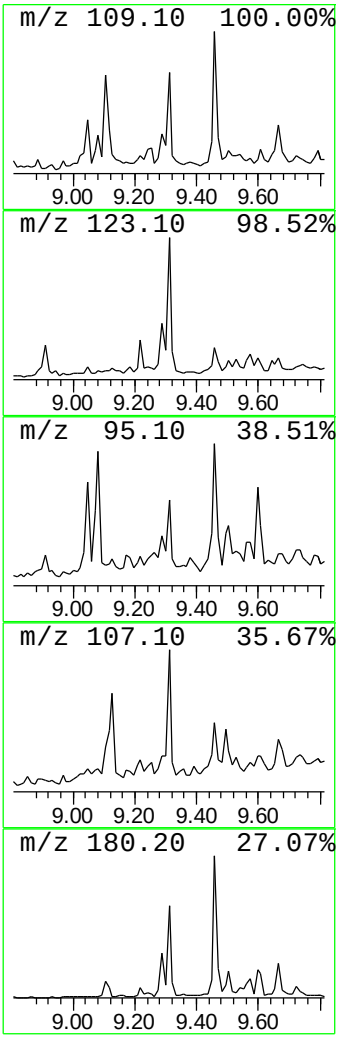
**********

Peak Number 4 3,5-Dimethyl-1-adamantanol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.31 | 11.51 ng | 1323480 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethyl-1-adamantanol | 180 | C12H20O | 000707-37-9 | 74 |
| 2 | 2-(2-Hydroxycyclohexyl)-furan | 166 | C10H14O2 | 1000145-92-8 | 35 |
| 3 | 4-Fluorobenzoic acid, 2-methylpr... | 196 | C11H13FO2 | 029240-31-1 | 35 |
| 4 | 4-Fluorobenzoic acid, cyclopentyl... | 208 | C12H13FO2 | 1000279-05-6 | 25 |
| 5 | 4-Fluorobenzoic acid, undec-10-e... | 292 | C18H25FO2 | 1000279-02-8 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

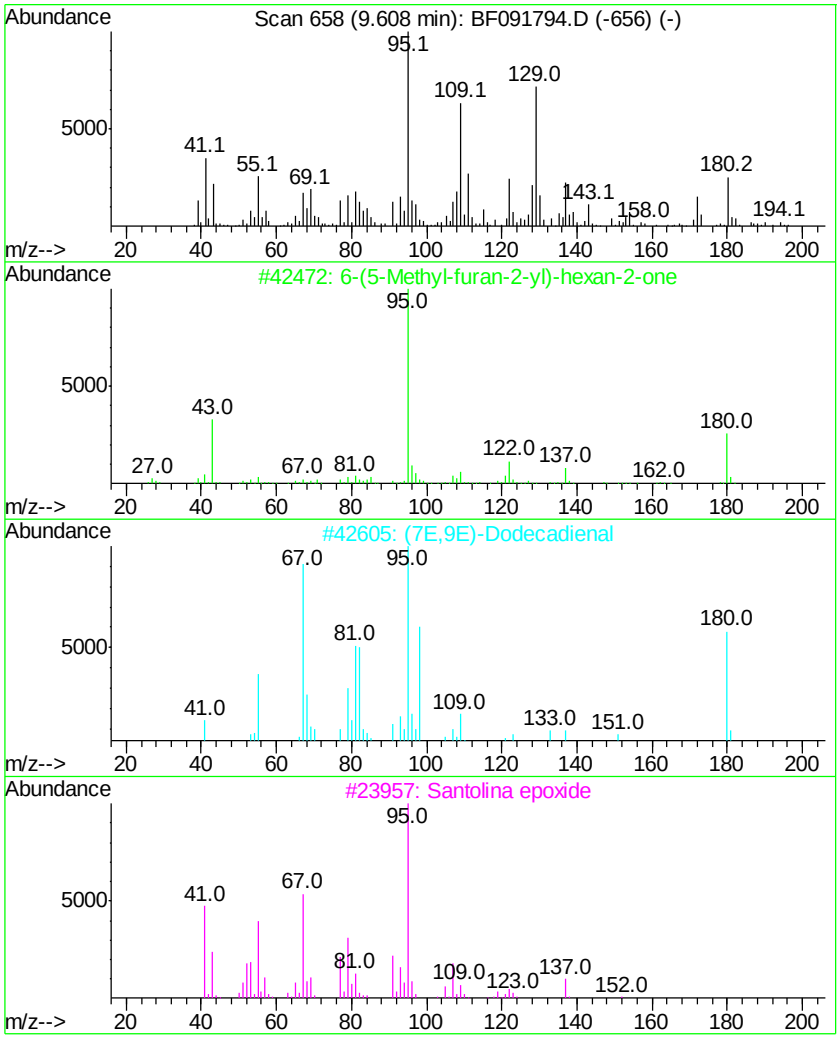
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

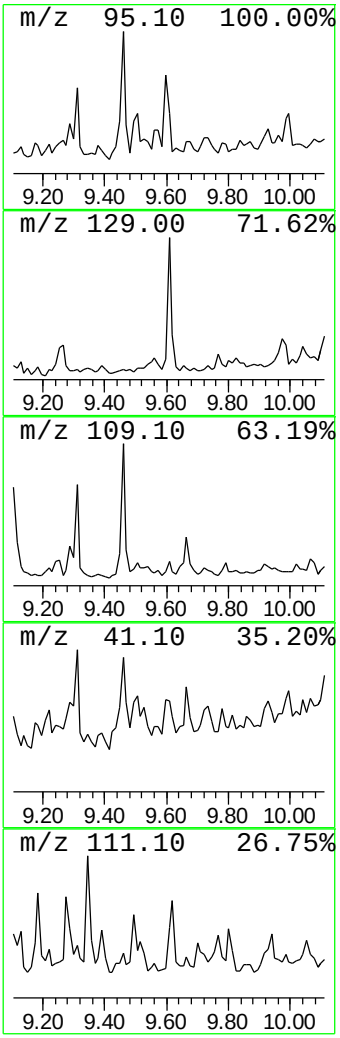
**********

Peak Number 6 unknown9.61 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.61 | 5.15 ng | 592576 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-(5-Methyl-furan-2-yl)-hexan-2-one | 180 | C11H16O2 | 1000185-87-5 | 30 |
| 2 | (7E,9E)-Dodecadienal | 180 | C12H20O | 097475-10-0 | 30 |
| 3 | Santolina epoxide | 152 | C10H16O | 060485-45-2 | 30 |
| 4 | 4,6-Heptadien-2-one, 3,6-dimethy... | 180 | C12H20O | 077822-50-5 | 30 |
| 5 | 1,3-Dimethyl-5-heptafluorobutyry... | 324 | C12H15F7O2 | 1000216-63-8 | 22 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

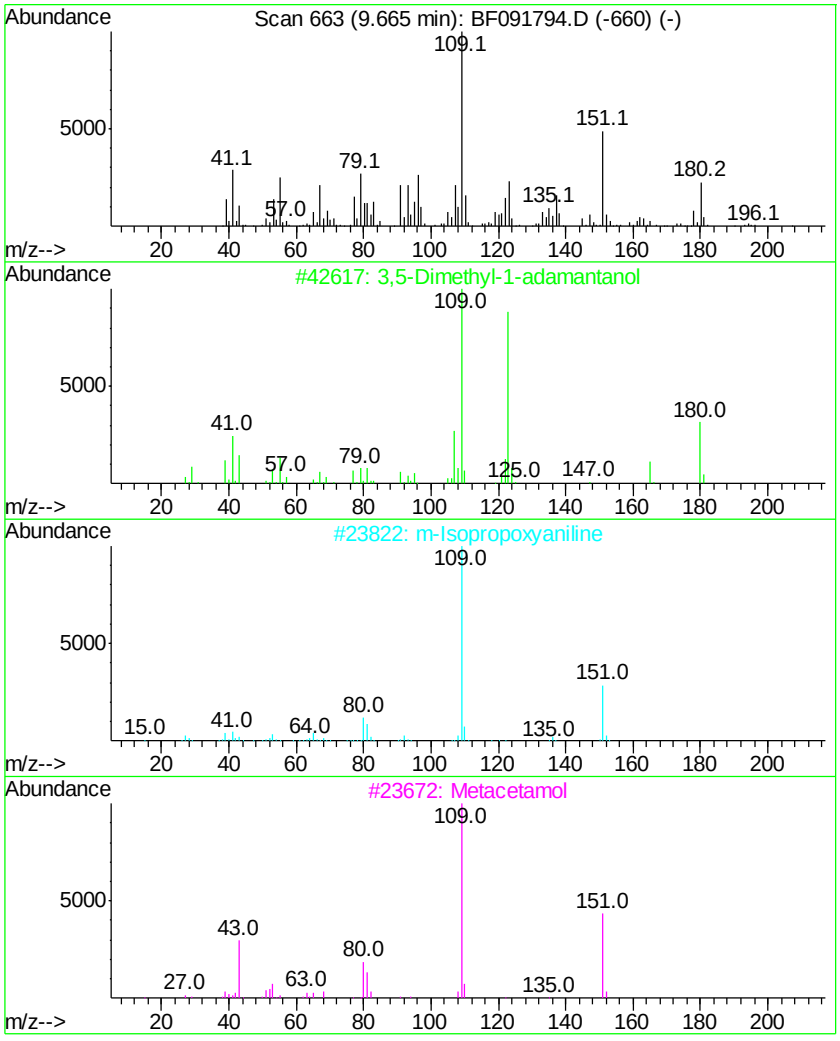
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

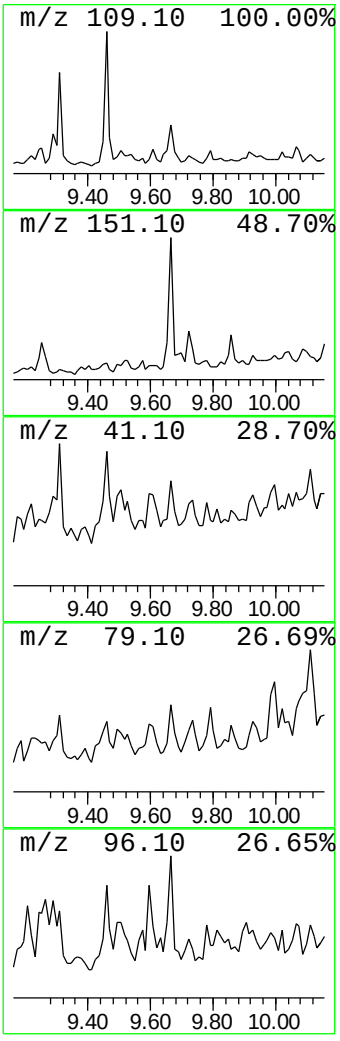
**********

Peak Number 7 unknown9.66 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 5.71 ng | 656148 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethyl-1-adamantanol | 180 | C12H20O | 000707-37-9 | 49 |
| 2 | m-Isopropoxyaniline | 151 | C9H13NO | 041406-00-2 | 49 |
| 3 | Metacetamol | 151 | C8H9NO2 | 000621-42-1 | 46 |
| 4 | trans-3(10)-Caren-2-ol | 152 | C10H16O | 1000151-66-5 | 45 |
| 5 | Acetaminophen | 151 | C8H9NO2 | 000103-90-2 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

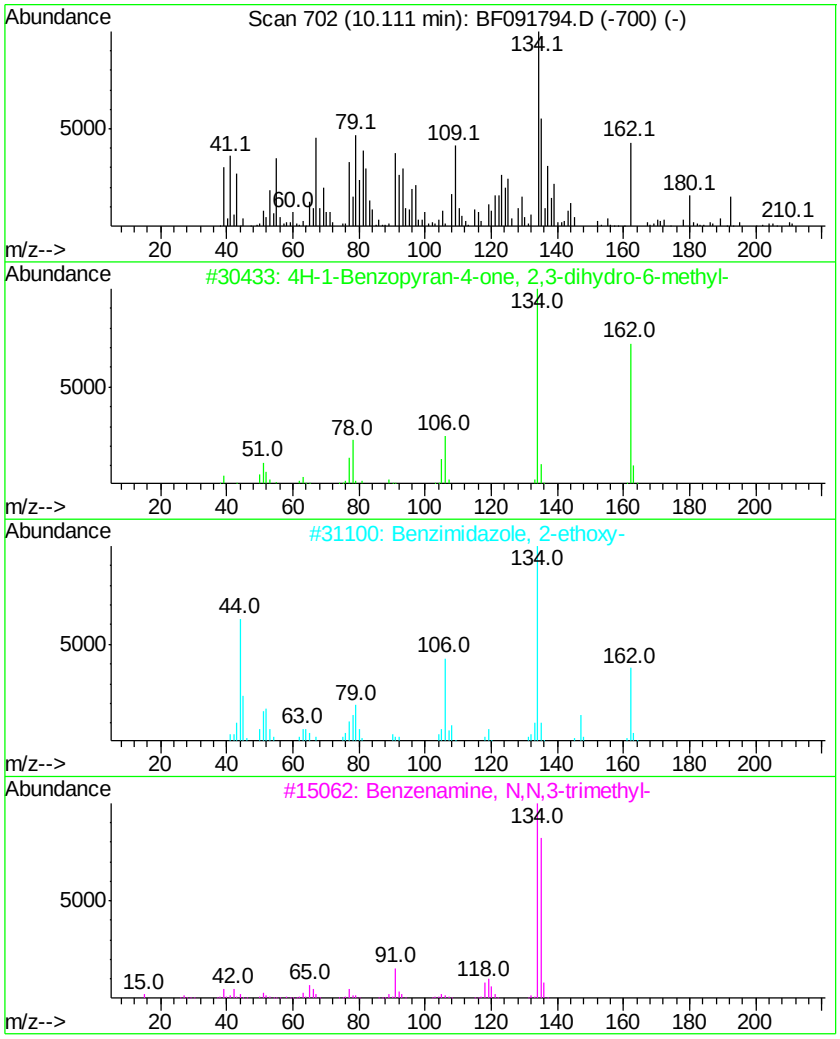
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

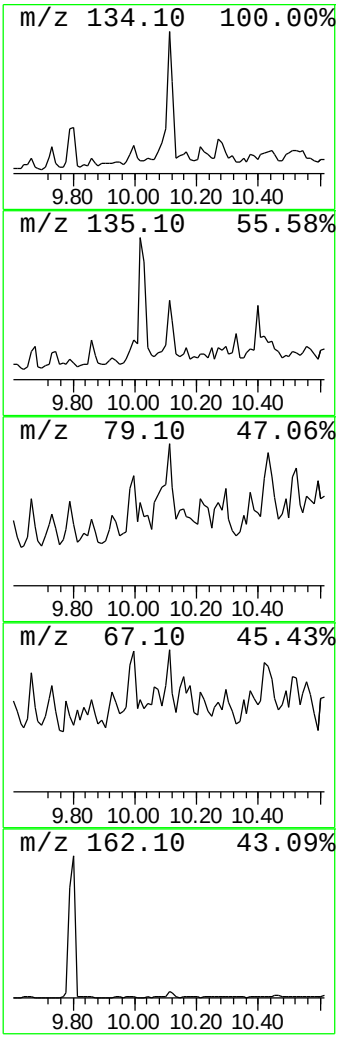
**********

Peak Number 8 unknown10.11 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.11 | 5.13 ng | 590201 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-1-Benzopyran-4-one, 2,3-dihyd... | 162 | C10H10O2 | 039513-75-2 | 27 |
| 2 | Benzimidazole, 2-ethoxy- | 162 | C9H10N2O | 022219-23-4 | 27 |
| 3 | Benzenamine, N,N,3-trimethyl- | 135 | C9H13N | 000121-72-2 | 25 |
| 4 | Benzenamine, N,N,4-trimethyl- | 135 | C9H13N | 000099-97-8 | 25 |
| 5 | Sydnone, 3-(4-methoxyphenyl)- | 192 | C9H8N2O3 | 003815-80-3 | 22 |



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Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

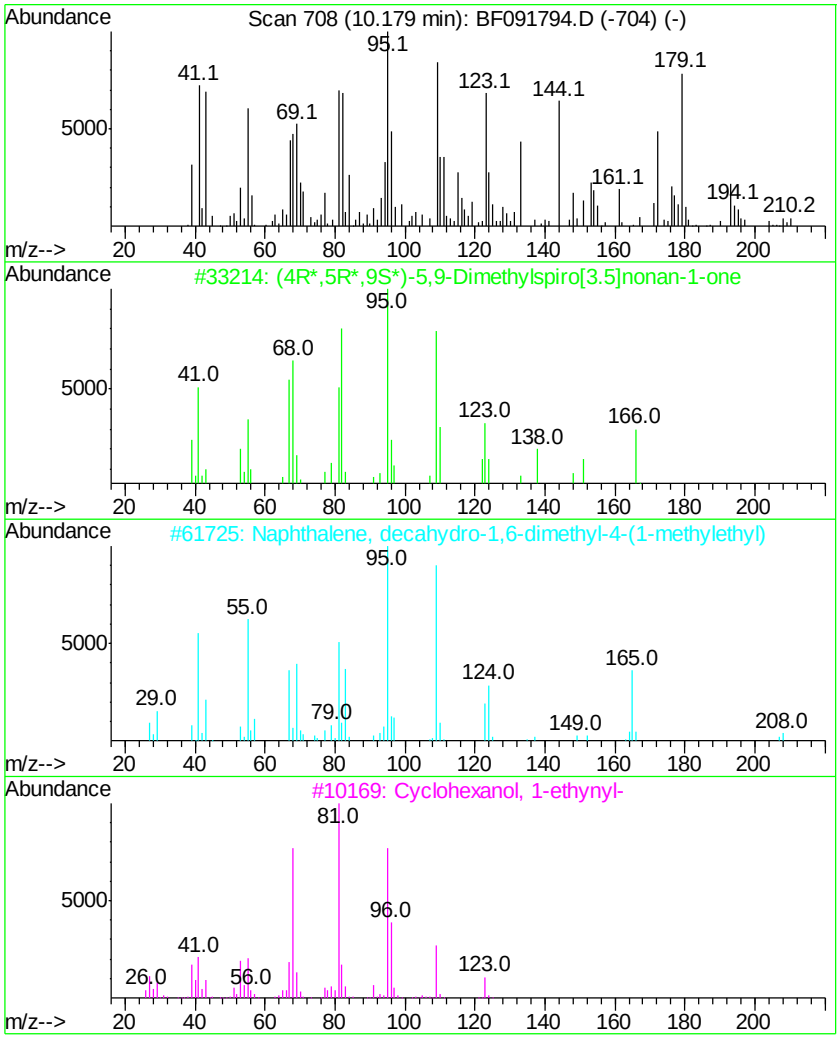
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

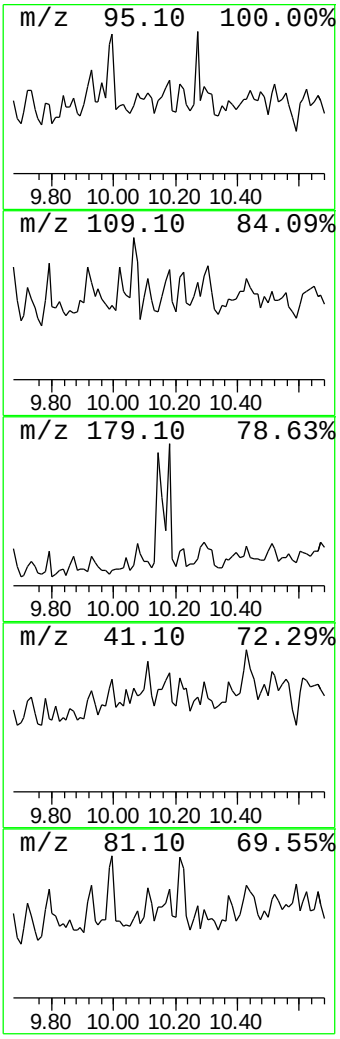
**********

Peak Number 9 unknown10.18 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.18 | 5.44 ng | 624927 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (4R*,5R*,9S*)-5,9-Dimethylspiro[... | 166 | C11H18O | 063088-19-7 | 27 |
| 2 | Naphthalene, decahydro-1,6-dimet... | 208 | C15H28 | 034315-85-0 | 25 |
| 3 | Cyclohexanol, 1-ethynyl- | 124 | C8H12O | 000078-27-3 | 22 |
| 4 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 004863-59-6 | 16 |
| 5 | Cyclohexene, 3,5,5-trimethyl- | 124 | C9H16 | 000933-12-0 | 15 |



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Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

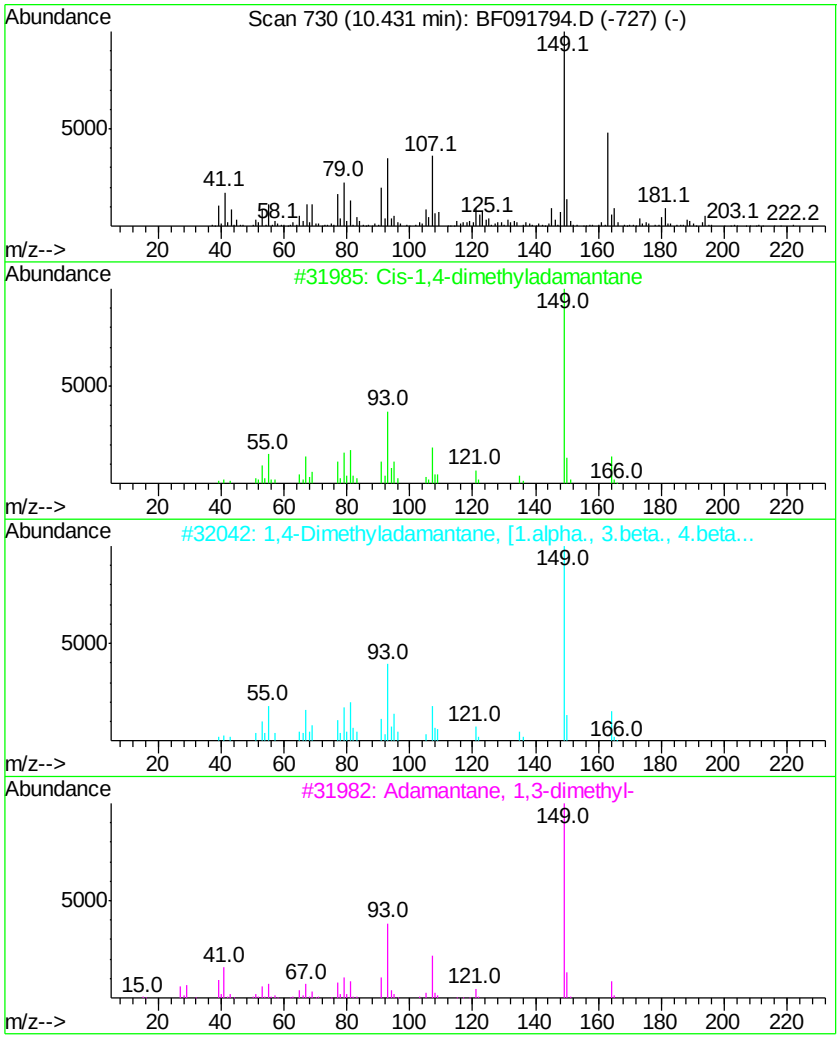
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

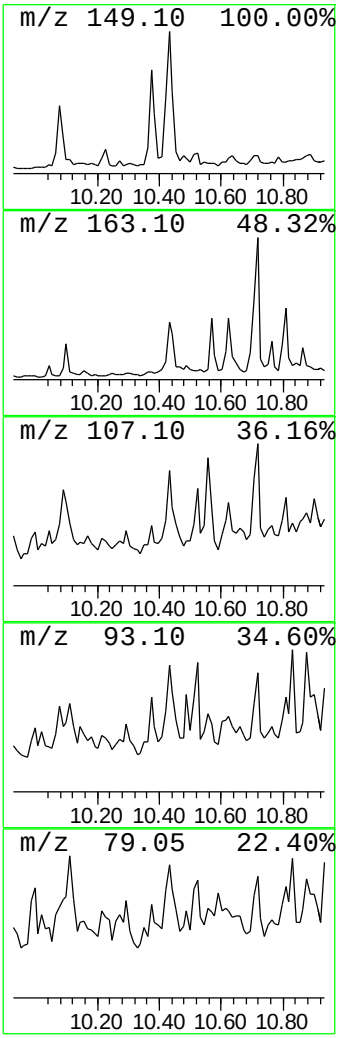
**********

Peak Number 10 Cis-1,4-dimethyladamantane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 10.08 ng | 1158970 | Acenaphthene-d10 | 9.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cis-1,4-dimethyladamantane | 164 | C12H20 | 024145-89-9 | 58 |
| 2 | 1,4-Dimethyladamantane, [1.alpha... | 164 | C12H20 | 024145-88-8 | 50 |
| 3 | Adamantane, 1,3-dimethyl- | 164 | C12H20 | 000702-79-4 | 50 |
| 4 | 5-(3-Methylbutyl)-2-pyridinecarb... | 193 | C11H15NO2 | 049751-50-0 | 46 |
| 5 | Tricyclo[4.3.1.1(3,8)]undecane, ... | 228 | C11H17Br | 021898-96-4 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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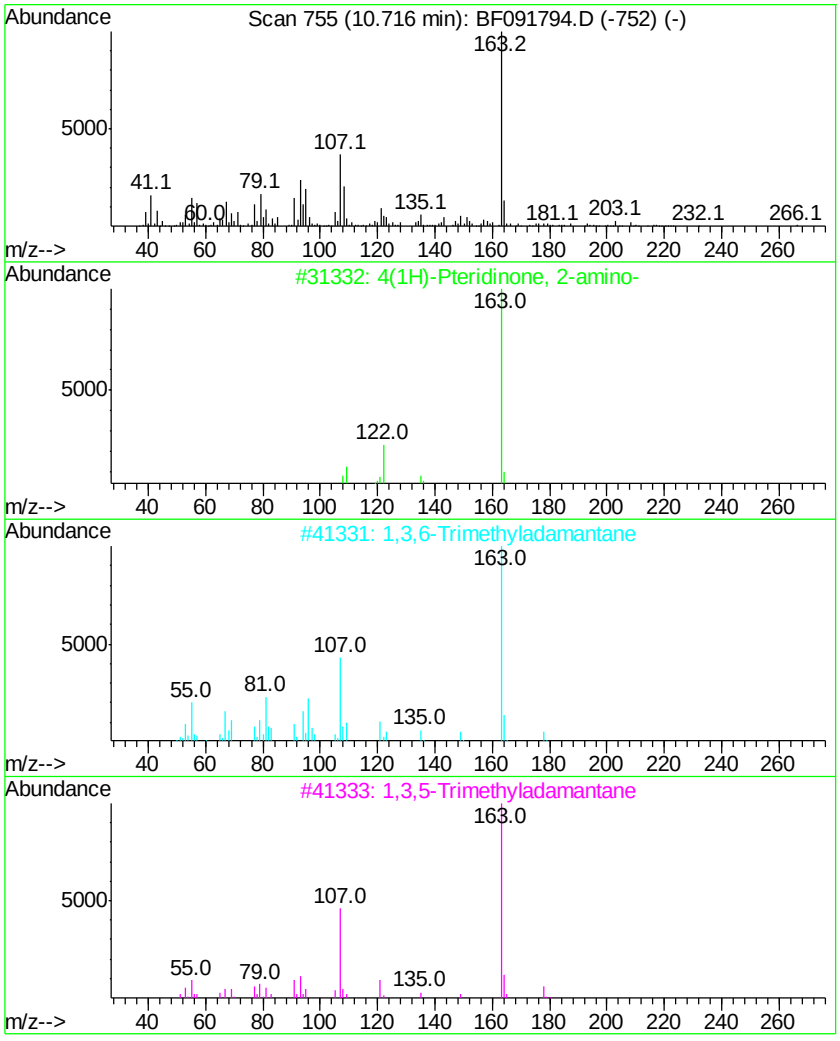
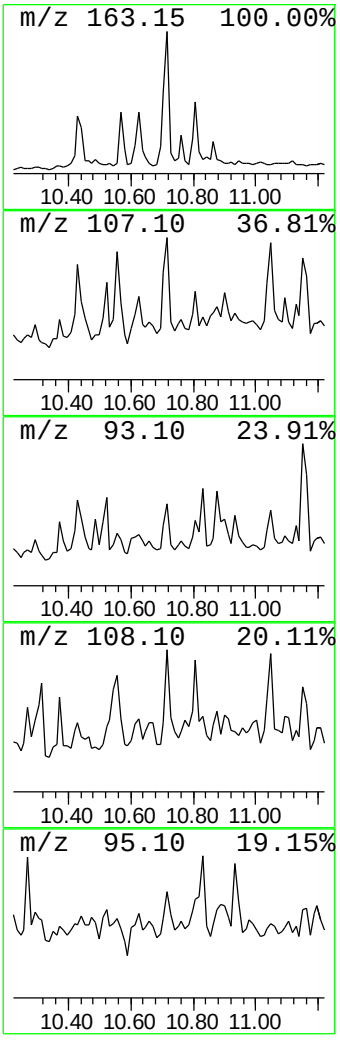
Peak Number 11 4(1H)-Pteridinone, 2-amino- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.72 | 12.53 ng | 1023810 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4(1H)-Pteridinone, 2-amino- | 163 | C6H5N5O | 002236-60-4 | 64 |
| 2 | 1,3,6-Trimethyladamantane | 178 | C13H22 | 024139-37-5 | 53 |
| 3 | 1,3,5-Trimethyladamantane | 178 | C13H22 | 000707-35-7 | 53 |
| 4 | 1,3-Dimethyl-5-n-propyl-adamantane | 206 | C15H26 | 019385-87-6 | 53 |
| 5 | Adamantane, 1-isothiocyanato-3,5... | 221 | C13H19NS | 136860-49-6 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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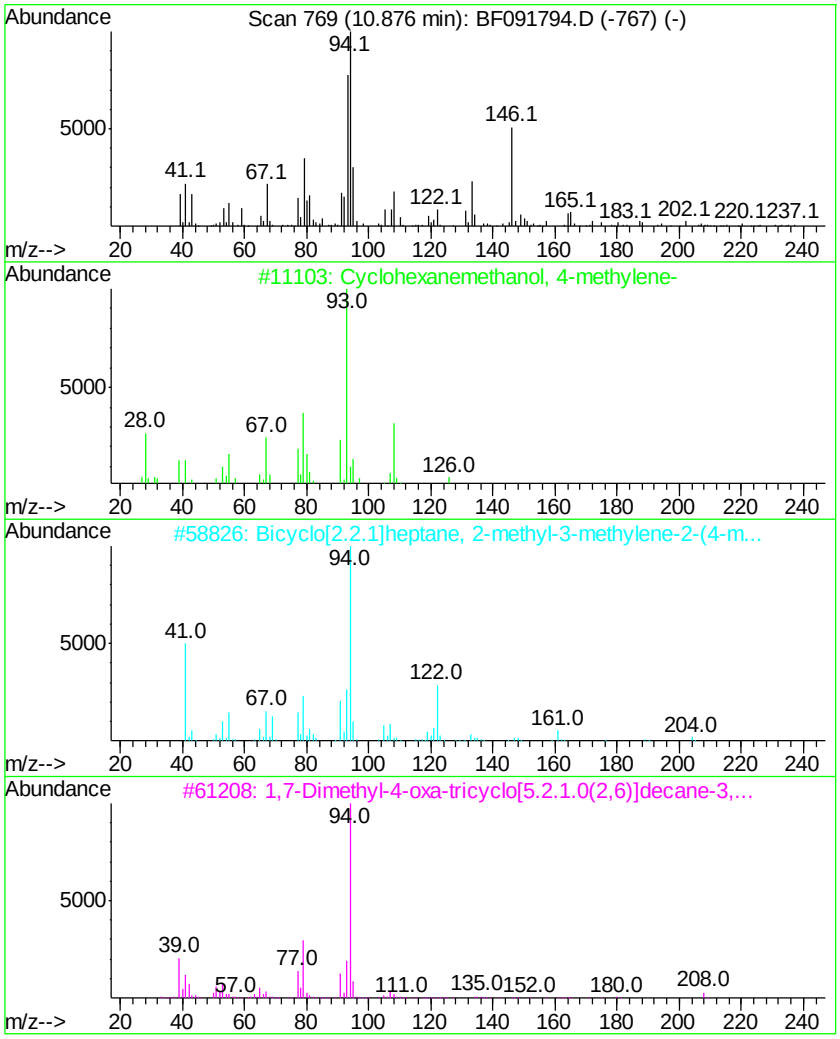
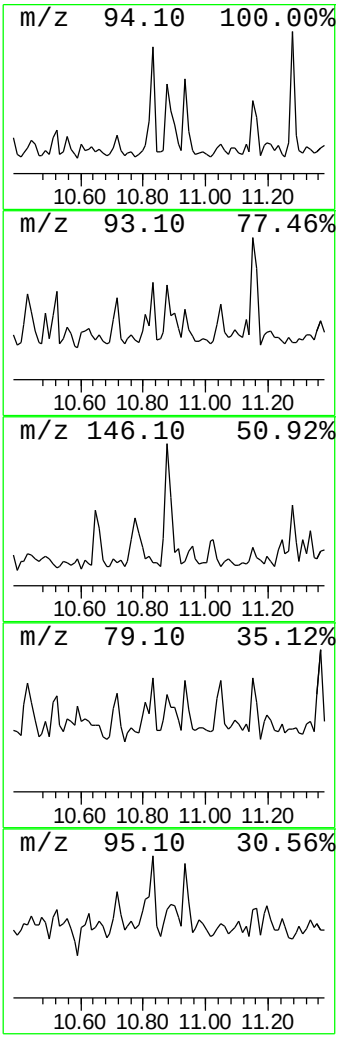
Peak Number 12 unknown10.88 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.88 | 7.64 ng | 624129 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanemethanol, 4-methylene- | 126 | C8H14O | 001004-24-6 | 38 |
| 2 | Bicyclo[2.2.1]heptane, 2-methyl-... | 204 | C15H24 | 025532-78-9 | 35 |
| 3 | 1,7-Dimethyl-4-oxa-tricyclo[5.2.... | 208 | C11H12O4 | 091143-65-6 | 27 |
| 4 | 3-(3-Oxo-2-prop-2-ynyl-cyclopent... | 208 | C12H16O3 | 344885-14-9 | 27 |
| 5 | Bicyclo[2.2.1]heptane, 2-methyl-... | 204 | C15H24 | 000511-59-1 | 27 |



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Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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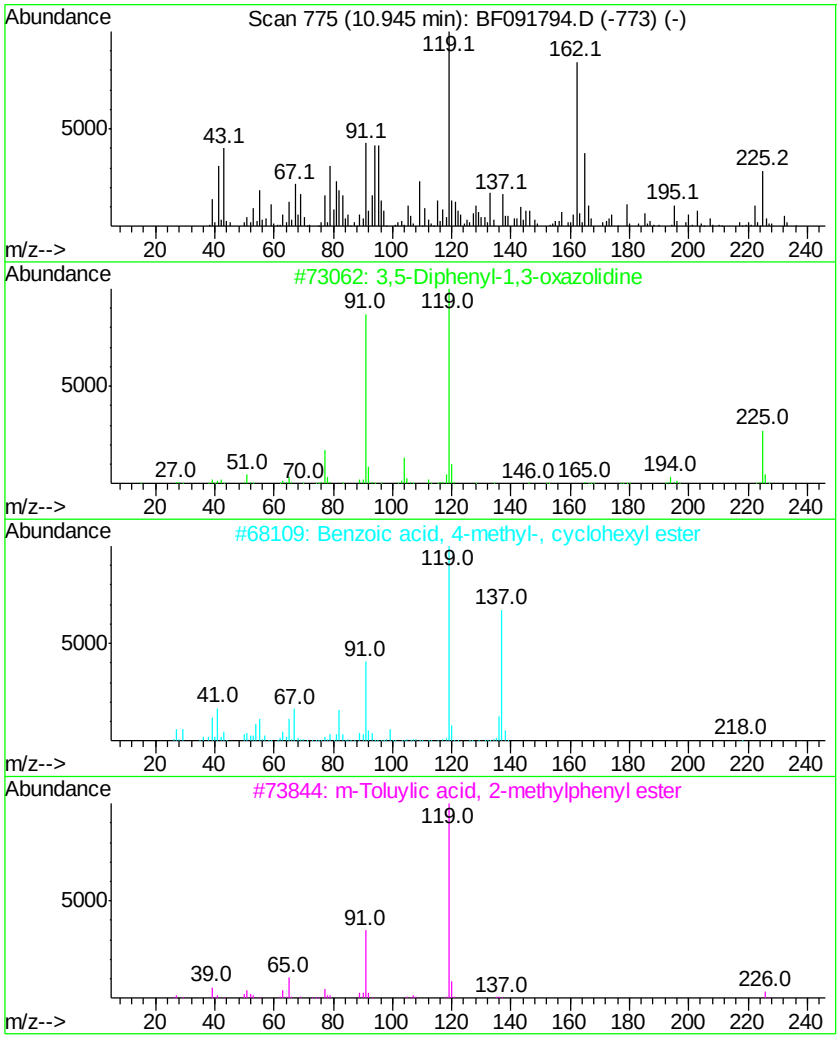
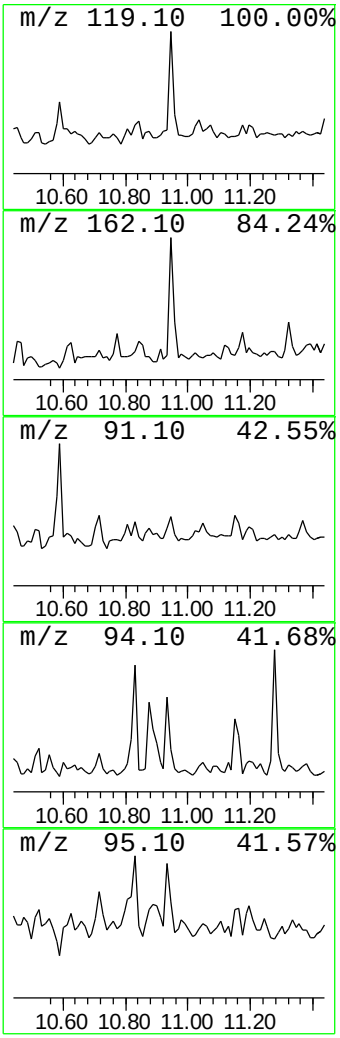
Peak Number 13 unknown10.94 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.94 | 6.66 ng | 543691 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Diphenyl-1,3-oxazolidine | 225 | C15H15NO | 155086-08-1 | 35 |
| 2 | Benzoic acid, 4-methyl-, cyclohe... | 218 | C14H18O2 | 058435-19-1 | 25 |
| 3 | m-Toluylic acid, 2-methylphenyl ... | 226 | C15H14O2 | 021121-93-7 | 15 |
| 4 | (4-Methylphenyl)-methanediol dia... | 222 | C12H14O4 | 002929-93-3 | 15 |
| 5 | Benzhydrazide, 4-methyl-N2-metho... | 222 | C11H14N2O3 | 346456-58-4 | 15 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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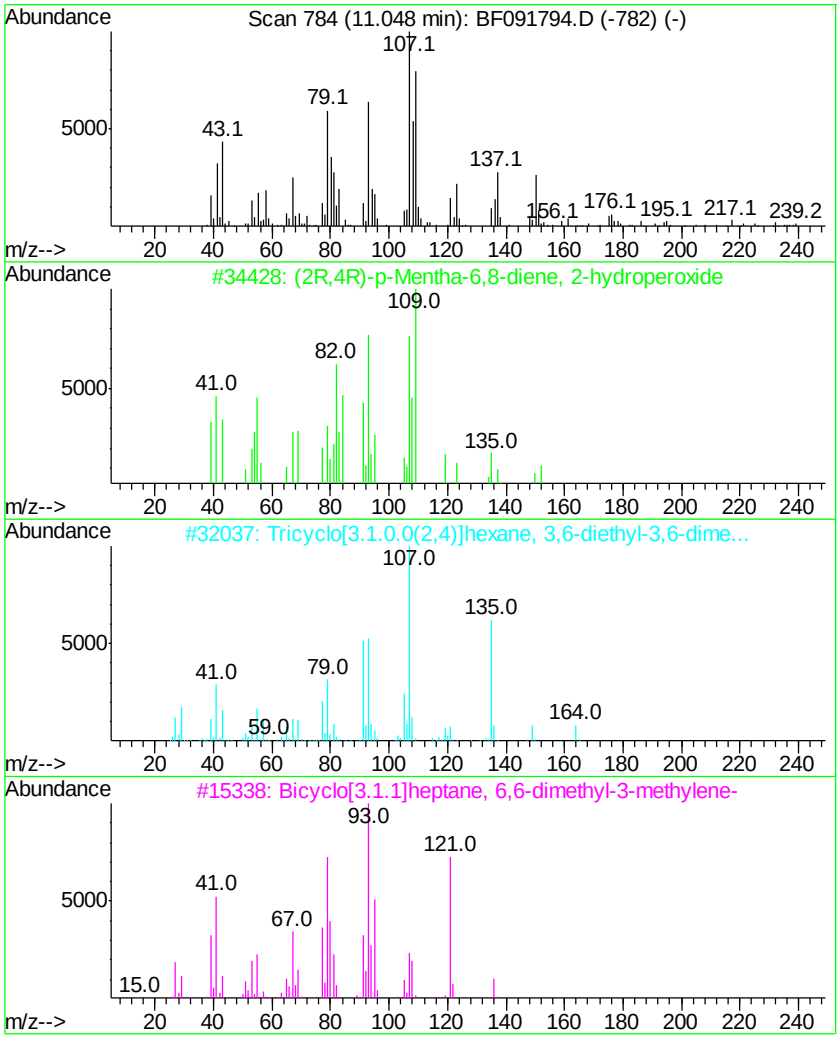
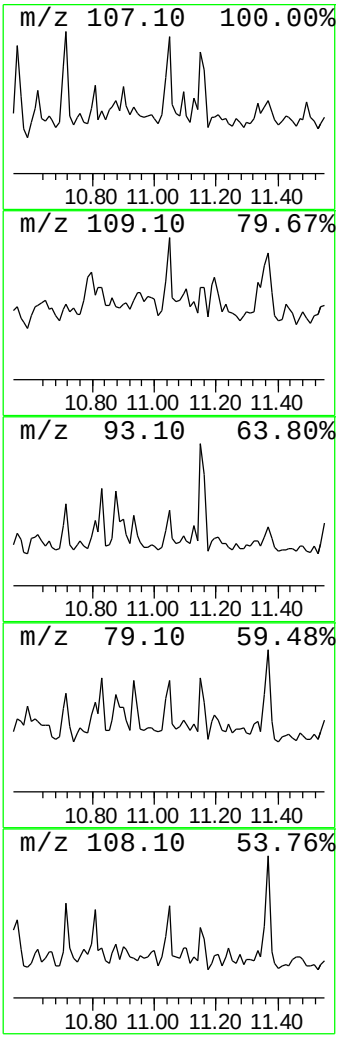
Peak Number 14 unknown11.05 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.05 | 9.73 ng | 795109 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (2R,4R)-p-Mentha-6,8-diene, 2-hv... | 168 | C10H16O2 | 1000292-74-2 | 43 |
| 2 | Tricyclo[3.1.0.0(2,4)]hexane, 3,... | 164 | C12H20 | 1000150-21-2 | 35 |
| 3 | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16 | 016022-04-1 | 25 |
| 4 | Bicyclobutylidene | 108 | C8H12 | 006708-14-1 | 25 |
| 5 | Benzenemethanol, .alpha.-ethyl- | 136 | C9H12O | 000093-54-9 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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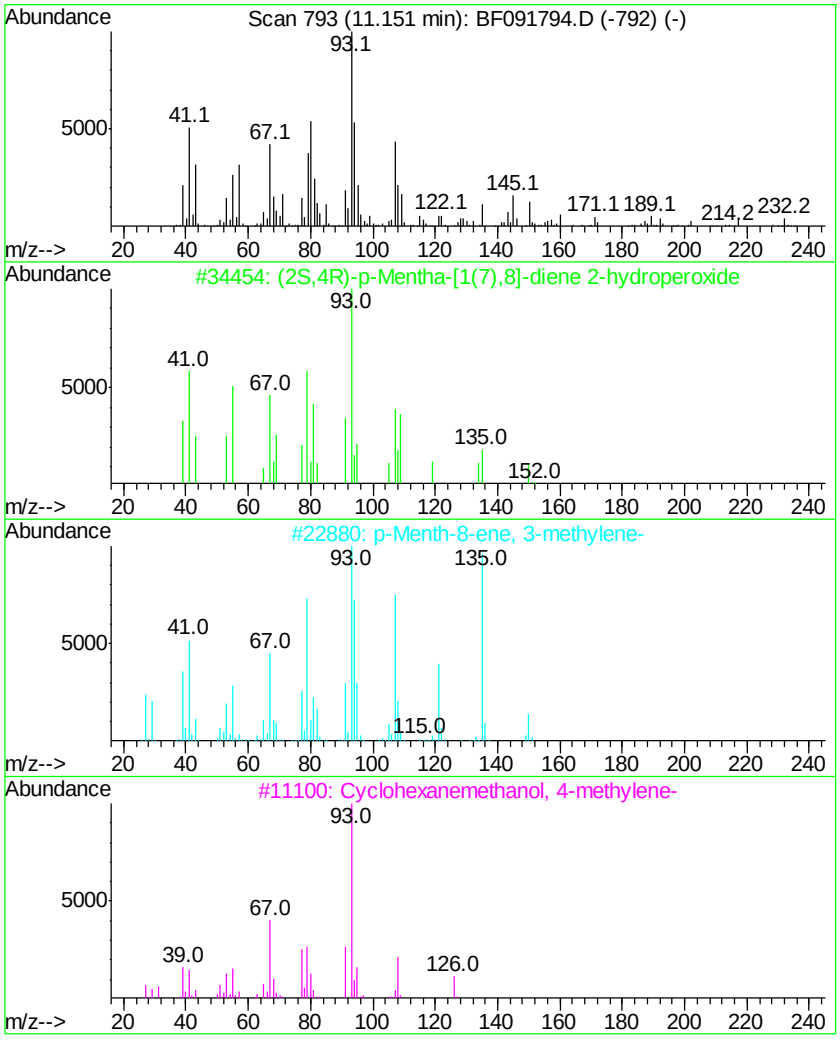
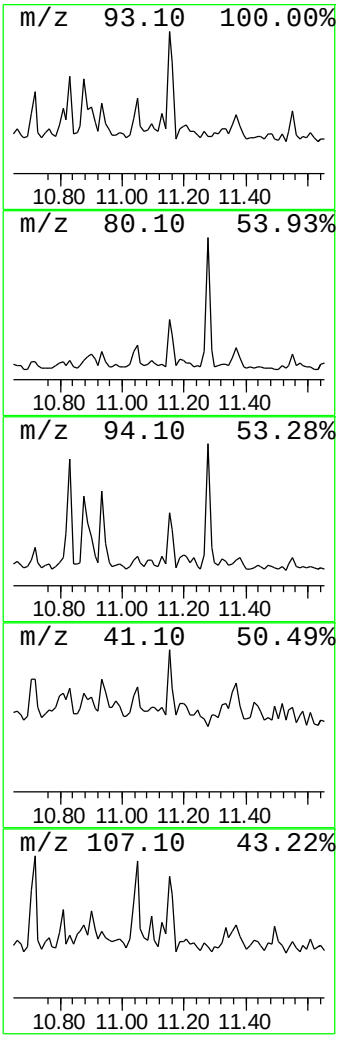
Peak Number 15 (2S,4R)-p-Mentha-[1(7),8]-d... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.15 | 7.94 ng | 648565 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (2S,4R)-p-Mentha-[1(7),8]-diene ... | 168 | C10H16O2 | 1000292-74-4 | 59 |
| 2 | p-Menth-8-ene, 3-methylene- | 150 | C11H18 | 1000151-25-7 | 49 |
| 3 | Cyclohexanemethanol, 4-methylene- | 126 | C8H14O | 001004-24-6 | 47 |
| 4 | (4-Methyl-cyclohex-3-enyl)-methanol | 126 | C8H14O | 089690-46-0 | 38 |
| 5 | Camphenone, 6- | 150 | C10H14O | 055659-42-2 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

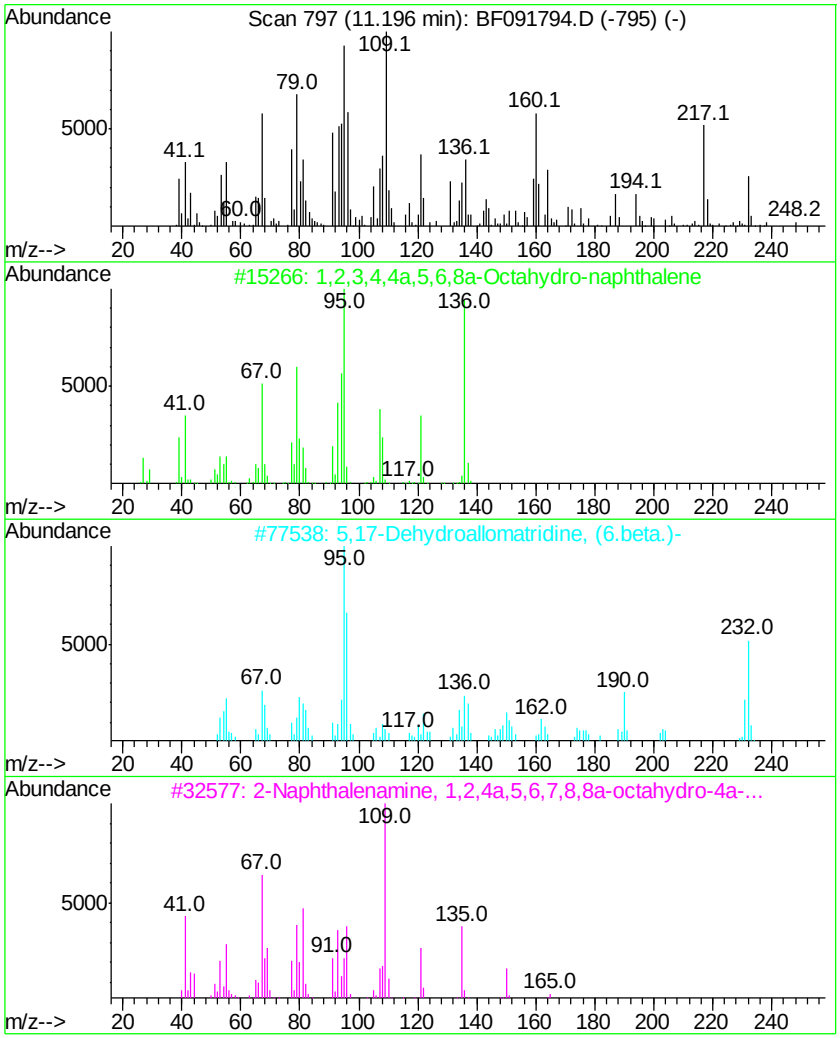
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

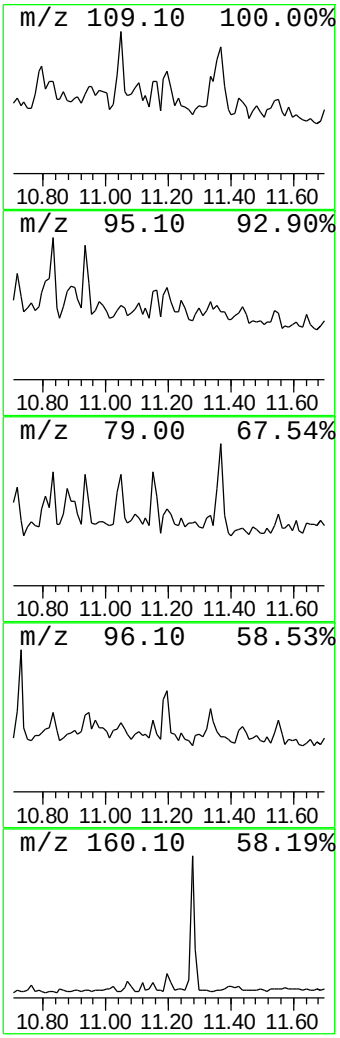
**********

Peak Number 16 unknown11.20 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 5.12 ng | 418153 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2,3,4,4a,5,6,8a-Octahydro-naph... | 136 | C10H16 | 031244-58-3 | 35 |
| 2 | 5,17-Dehydroallomatridine, (6.be... | 232 | C15H24N2 | 053537-50-1 | 30 |
| 3 | 2-Naphthalenamine, 1,2,4a,5,6,7,... | 165 | C11H19N | 056053-03-3 | 22 |
| 4 | 1H-Imidazole, 2-ethyl- | 96 | C5H8N2 | 001072-62-4 | 18 |
| 5 | Acetic acid, 1,7,7-trimethyl-bic... | 196 | C12H20O2 | 092618-89-8 | 15 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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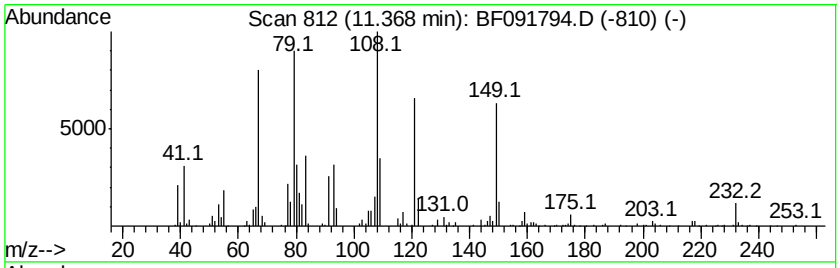
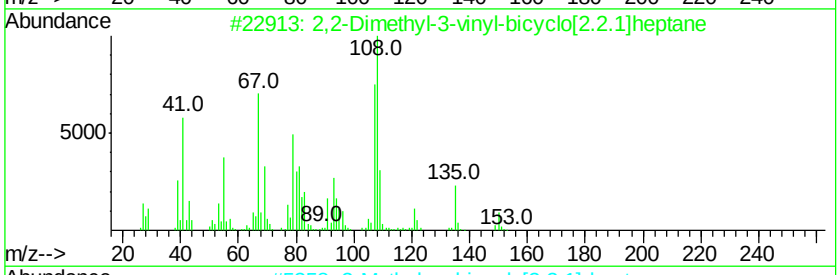
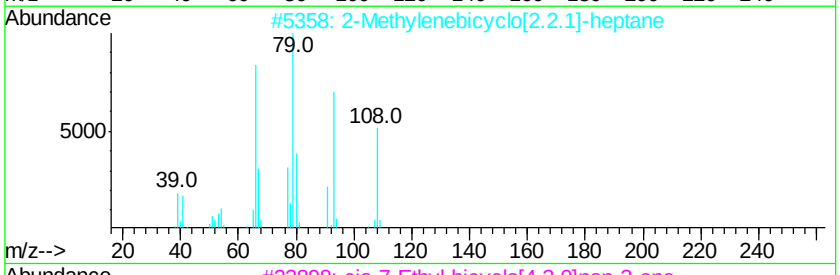
Peak Number 17 2,2-Dimethyl-3-vinyl-bicycl... Concentration Rank 13

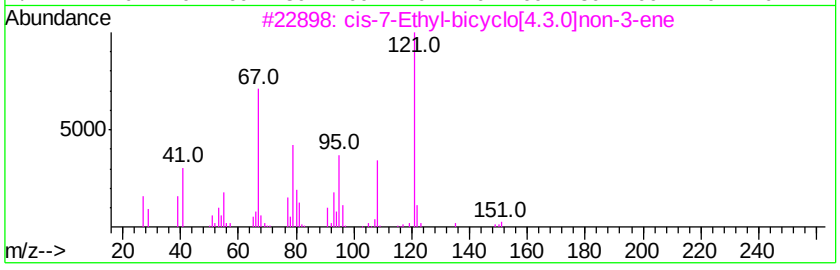
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.37 | 6.47 ng | 528401 | Phenanthrene-d10 | 11.28 |

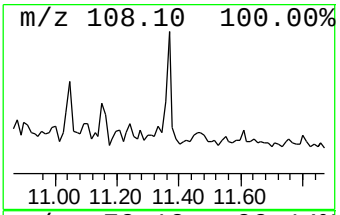
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-Dimethyl-3-vinyl-bicyclo[2.2... | 150 | C11H18 | 115948-98-6 | 58 |
| 2 | 2-Methylenebicyclo[2.2.1]-heptane | 108 | C8H12 | 000497-35-8 | 49 |
| 3 | cis-7-Ethyl-bicyclo[4.3.0]non-3-ene | 150 | C11H18 | 1000145-84-5 | 35 |
| 4 | trans-7-Ethyl-bicyclo[4.3.0]non-... | 150 | C11H18 | 1000145-84-7 | 35 |
| 5 | 5-Undecen-3-yne, (Z)- | 150 | C11H18 | 074744-30-2 | 18 |

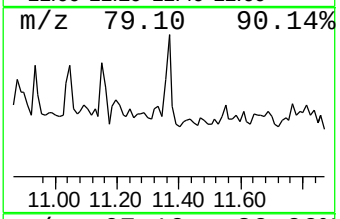


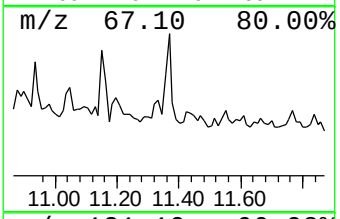



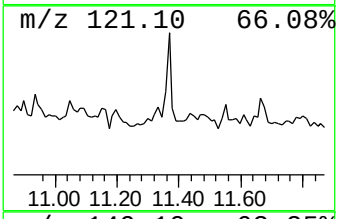



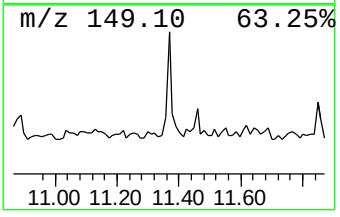



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

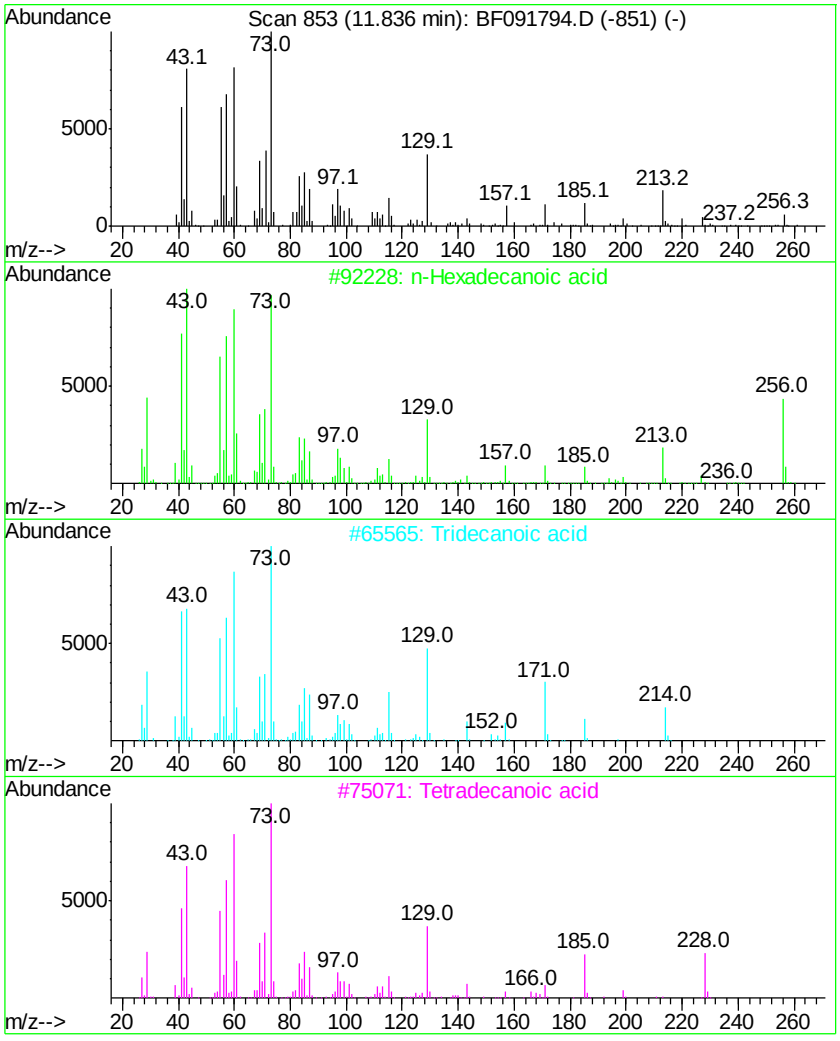
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

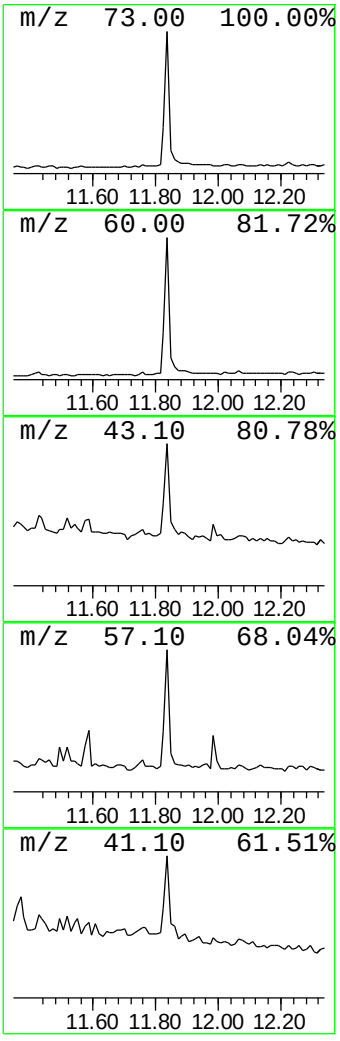
**********

Peak Number 18 n-Hexadecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.84 | 11.18 ng | 913044 | Phenanthrene-d10 | 11.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 91 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

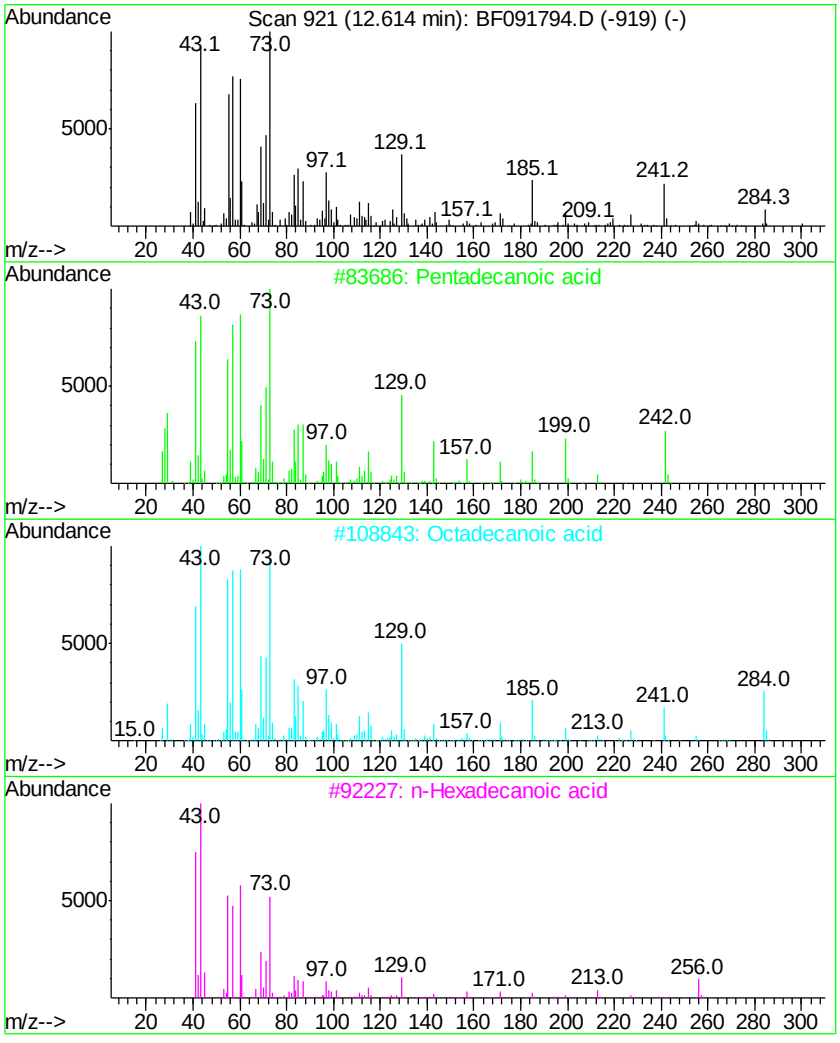
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

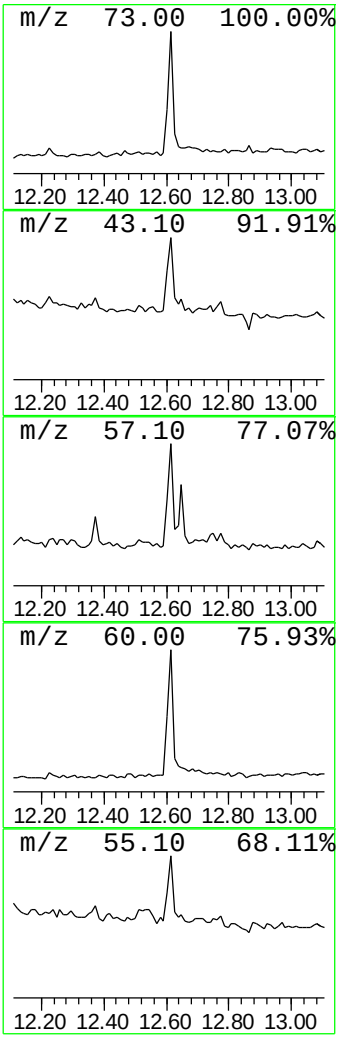
**********

Peak Number 19 Pentadecanoic acid Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.61 | 5.32 ng | 315079 | Chrysene-d12 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 89 |
| 2 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 86 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 70 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

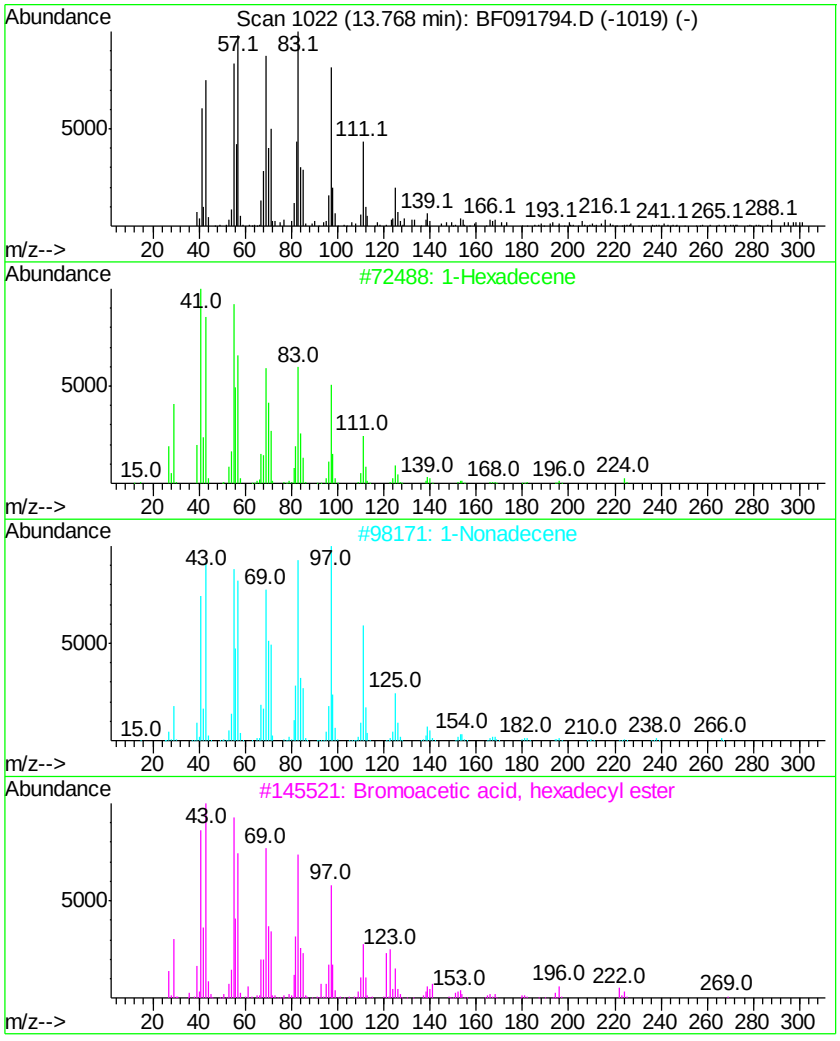
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

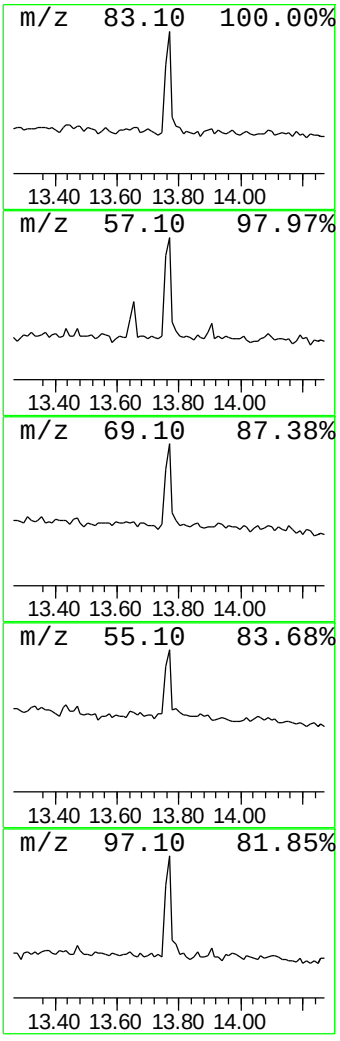
**********

Peak Number 20 1-Hexadecene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.77 | 5.46 ng | 323198 | Chrysene-d12 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexadecene | 224 | C16H32 | 000629-73-2 | 91 |
| 2 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |
| 3 | Bromoacetic acid, hexadecyl ester | 362 | C18H35BrO2 | 005454-48-8 | 90 |
| 4 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 81 |
| 5 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121916\
Data File : BF091794.D
Acq On : 20 Dec 2016 00:59
Operator : UM/SJ
Sample : H6126-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-27

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.92 | 16.4 | ng | 1228490 | 1 | 6.76 | 1498160 | 20.0 |
| unknown6.53 | 6.53 | 78.8 | ng | 5899390 | 1 | 6.76 | 1498160 | 20.0 |
| 3,5-Dimethyl-1-ad... | 9.31 | 11.5 | ng | 1323480 | 3 | 9.80 | 2299360 | 20.0 |
| unknown9.61 | 9.61 | 5.2 | ng | 592576 | 3 | 9.80 | 2299360 | 20.0 |
| unknown9.66 | 9.66 | 5.7 | ng | 656148 | 3 | 9.80 | 2299360 | 20.0 |
| unknown10.11 | 10.11 | 5.1 | ng | 590201 | 3 | 9.80 | 2299360 | 20.0 |
| unknown10.18 | 10.18 | 5.4 | ng | 624927 | 3 | 9.80 | 2299360 | 20.0 |
| Cis-1,4-dimethyla... | 10.43 | 10.1 | ng | 1158970 | 3 | 9.80 | 2299360 | 20.0 |
| 4(1H)-Pteridinone... | 10.72 | 12.5 | ng | 1023810 | 4 | 11.28 | 1633870 | 20.0 |
| unknown10.88 | 10.88 | 7.6 | ng | 624129 | 4 | 11.28 | 1633870 | 20.0 |
| unknown10.94 | 10.94 | 6.7 | ng | 543691 | 4 | 11.28 | 1633870 | 20.0 |
| unknown11.05 | 11.05 | 9.7 | ng | 795109 | 4 | 11.28 | 1633870 | 20.0 |
| (2S,4R)-p-Mentha-... | 11.15 | 7.9 | ng | 648565 | 4 | 11.28 | 1633870 | 20.0 |
| unknown11.20 | 11.20 | 5.1 | ng | 418153 | 4 | 11.28 | 1633870 | 20.0 |
| 2,2-Dimethyl-3-vi... | 11.37 | 6.5 | ng | 528401 | 4 | 11.28 | 1633870 | 20.0 |
| n-Hexadecanoic acid | 11.84 | 11.2 | ng | 913044 | 4 | 11.28 | 1633870 | 20.0 |
| Pentadecanoic acid | 12.61 | 5.3 | ng | 315079 | 5 | 13.91 | 1184640 | 20.0 |
| 1-Hexadecene | 13.77 | 5.5 | ng | 323198 | 5 | 13.91 | 1184640 | 20.0 |