LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

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-BF050916.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 | 1.735 | 11 | 13 | 58 | rVB | 4039034 | 8350952 | 100.00% | 13.691% |
| 2 | 4.741 | 274 | 276 | 287 | rBV | 505998 | 768192 | 9.20% | 1.259% |
| 3 | 5.210 | 314 | 317 | 319 | rBV | 2160002 | 2982904 | 35.72% | 4.890% |
| 4 | 5.610 | 347 | 352 | 354 | rBV2 | 64257 | 100917 | 1.21% | 0.165% |
| 5 | 6.273 | 408 | 410 | 416 | rBV | 1865675 | 2194882 | 26.28% | 3.598% |
| 6 | 6.387 | 417 | 420 | 422 | rVV | 4431868 | 4571063 | 54.74% | 7.494% |
| 7 | 6.604 | 438 | 439 | 443 | rVB | 684666 | 990798 | 11.86% | 1.624% |
| 8 | 6.707 | 443 | 448 | 449 | rBV3 | 32834 | 87322 | 1.05% | 0.143% |
| 9 | 6.764 | 451 | 453 | 456 | rVB | 3419135 | 3303412 | 39.56% | 5.416% |
| 10 | 6.890 | 461 | 464 | 468 | rVB2 | 60429 | 120134 | 1.44% | 0.197% |
| 11 | 7.004 | 472 | 474 | 475 | rVB | 82749 | 106076 | 1.27% | 0.174% |
| 12 | 7.027 | 475 | 476 | 480 | rBV3 | 47696 | 85652 | 1.03% | 0.140% |
| 13 | 7.187 | 488 | 490 | 492 | rBV | 3120987 | 3190728 | 38.21% | 5.231% |
| 14 | 7.244 | 494 | 495 | 498 | rVB3 | 74809 | 136088 | 1.63% | 0.223% |
| 15 | 7.313 | 498 | 501 | 505 | rBV5 | 54316 | 137792 | 1.65% | 0.226% |
| 16 | 7.416 | 508 | 510 | 512 | rVB | 194661 | 196692 | 2.36% | 0.322% |
| 17 | 7.462 | 512 | 514 | 517 | rBV3 | 55665 | 101206 | 1.21% | 0.166% |
| 18 | 7.530 | 517 | 520 | 523 | rVB3 | 188279 | 251088 | 3.01% | 0.412% |
| 19 | 7.656 | 529 | 531 | 535 | rBV2 | 55330 | 132188 | 1.58% | 0.217% |
| 20 | 7.724 | 535 | 537 | 539 | rBV | 89895 | 110247 | 1.32% | 0.181% |
| 21 | 7.793 | 539 | 543 | 545 | rBV4 | 91187 | 200235 | 2.40% | 0.328% |
| 22 | 7.896 | 549 | 552 | 554 | rBV | 1291543 | 1383969 | 16.57% | 2.269% |
| 23 | 7.930 | 554 | 555 | 558 | rVB3 | 79707 | 109095 | 1.31% | 0.179% |
| 24 | 7.976 | 558 | 559 | 562 | rVB2 | 104166 | 116354 | 1.39% | 0.191% |
| 25 | 8.067 | 565 | 567 | 568 | rBV2 | 126183 | 135951 | 1.63% | 0.223% |
| 26 | 8.102 | 568 | 570 | 573 | rBV4 | 197217 | 270667 | 3.24% | 0.444% |
| 27 | 8.182 | 575 | 577 | 579 | rVB2 | 162914 | 180975 | 2.17% | 0.297% |
| 28 | 8.250 | 579 | 583 | 585 | rBV4 | 110649 | 286294 | 3.43% | 0.469% |
| 29 | 8.330 | 588 | 590 | 595 | rBV | 369803 | 846567 | 10.14% | 1.388% |
| 30 | 8.399 | 595 | 596 | 598 | rVB | 122610 | 88365 | 1.06% | 0.145% |
| 31 | 8.445 | 598 | 600 | 603 | rBV4 | 166056 | 386230 | 4.62% | 0.633% |
| 32 | 8.502 | 603 | 605 | 608 | rBV3 | 197042 | 405042 | 4.85% | 0.664% |
| 33 | 8.593 | 611 | 613 | 615 | rVB2 | 200202 | 308673 | 3.70% | 0.506% |
| 34 | 8.662 | 615 | 619 | 620 | rBV3 | 140944 | 388984 | 4.66% | 0.638% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

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-BF050916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.719 | 620 | 624 | 627 | rVV5 | 158425 | 296527 | 3.55% | 0.486% |
| 36 | 8.936 | 640 | 643 | 644 | rVB | 402909 | 416064 | 4.98% | 0.682% |
| 37 | 8.982 | 644 | 647 | 649 | rVB | 4669396 | 4587038 | 54.93% | 7.520% |
| 38 | 9.062 | 651 | 654 | 656 | rBV3 | 207545 | 505358 | 6.05% | 0.829% |
| 39 | 9.107 | 656 | 658 | 660 | rBV2 | 135331 | 215252 | 2.58% | 0.353% |
| 40 | 9.325 | 675 | 677 | 678 | rBV2 | 181589 | 219439 | 2.63% | 0.360% |
| 41 | 9.382 | 680 | 682 | 688 | rVB2 | 780608 | 1161303 | 13.91% | 1.904% |
| 42 | 9.519 | 692 | 694 | 696 | rBV3 | 137910 | 234829 | 2.81% | 0.385% |
| 43 | 9.553 | 696 | 697 | 699 | rVB2 | 203957 | 256009 | 3.07% | 0.420% |
| 44 | 9.599 | 699 | 701 | 702 | rBV | 104811 | 167715 | 2.01% | 0.275% |
| 45 | 9.645 | 702 | 705 | 707 | rBV | 1278715 | 1715278 | 20.54% | 2.812% |
| 46 | 9.816 | 717 | 720 | 722 | rBV4 | 175274 | 386793 | 4.63% | 0.634% |
| 47 | 9.919 | 726 | 729 | 731 | rBV4 | 326321 | 433127 | 5.19% | 0.710% |
| 48 | 9.976 | 731 | 734 | 736 | rBV2 | 219495 | 303250 | 3.63% | 0.497% |
| 49 | 10.010 | 736 | 737 | 739 | rBV2 | 282549 | 348047 | 4.17% | 0.571% |
| 50 | 10.079 | 741 | 743 | 747 | rBV4 | 169416 | 419426 | 5.02% | 0.688% |
| 51 | 10.250 | 756 | 758 | 761 | rBV3 | 196054 | 296068 | 3.55% | 0.485% |
| 52 | 10.308 | 761 | 763 | 766 | rVB | 543875 | 638514 | 7.65% | 1.047% |
| 53 | 10.445 | 772 | 775 | 776 | rBV2 | 2286782 | 3236656 | 38.76% | 5.306% |
| 54 | 10.468 | 776 | 777 | 780 | rVB2 | 216457 | 299592 | 3.59% | 0.491% |
| 55 | 10.570 | 784 | 786 | 789 | rVB2 | 690078 | 1166333 | 13.97% | 1.912% |
| 56 | 10.628 | 789 | 791 | 793 | rBV3 | 151622 | 319421 | 3.82% | 0.524% |
| 57 | 10.765 | 801 | 803 | 804 | rBV2 | 285185 | 258905 | 3.10% | 0.424% |
| 58 | 11.039 | 825 | 827 | 830 | rVB | 662963 | 727039 | 8.71% | 1.192% |
| 59 | 11.131 | 832 | 835 | 836 | rVV | 1021479 | 1263064 | 15.12% | 2.071% |
| 60 | 11.188 | 838 | 840 | 843 | rVB | 267927 | 267730 | 3.21% | 0.439% |
| 61 | 11.245 | 843 | 845 | 846 | rBV | 255159 | 261063 | 3.13% | 0.428% |
| 62 | 11.679 | 881 | 883 | 886 | rBV3 | 252417 | 226745 | 2.72% | 0.372% |
| 63 | 12.171 | 924 | 926 | 932 | rVB3 | 159485 | 372501 | 4.46% | 0.611% |
| 64 | 12.456 | 950 | 951 | 953 | rVB | 108476 | 103831 | 1.24% | 0.170% |
| 65 | 12.548 | 957 | 959 | 961 | rVB2 | 179573 | 188987 | 2.26% | 0.310% |
| 66 | 12.616 | 964 | 965 | 967 | rVB | 100962 | 121919 | 1.46% | 0.200% |
| 67 | 12.719 | 971 | 974 | 976 | rBV | 3110577 | 4343346 | 52.01% | 7.121% |
| 68 | 13.245 | 1018 | 1020 | 1022 | rVB | 111078 | 101378 | 1.21% | 0.166% |
| 69 | 13.611 | 1050 | 1052 | 1062 | rVB | 132846 | 214933 | 2.57% | 0.352% |
| 70 | 13.748 | 1062 | 1064 | 1067 | rBV | 993846 | 980410 | 11.74% | 1.607% |
| 71 | 13.931 | 1078 | 1080 | 1086 | rVB | 58202 | 89665 | 1.07% | 0.147% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

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-BF050916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.108 | 1181 | 1183 | 1186 | rBV | 694612 | 825717 | 9.89% | 1.354% |

Sum of corrected areas: 60995006

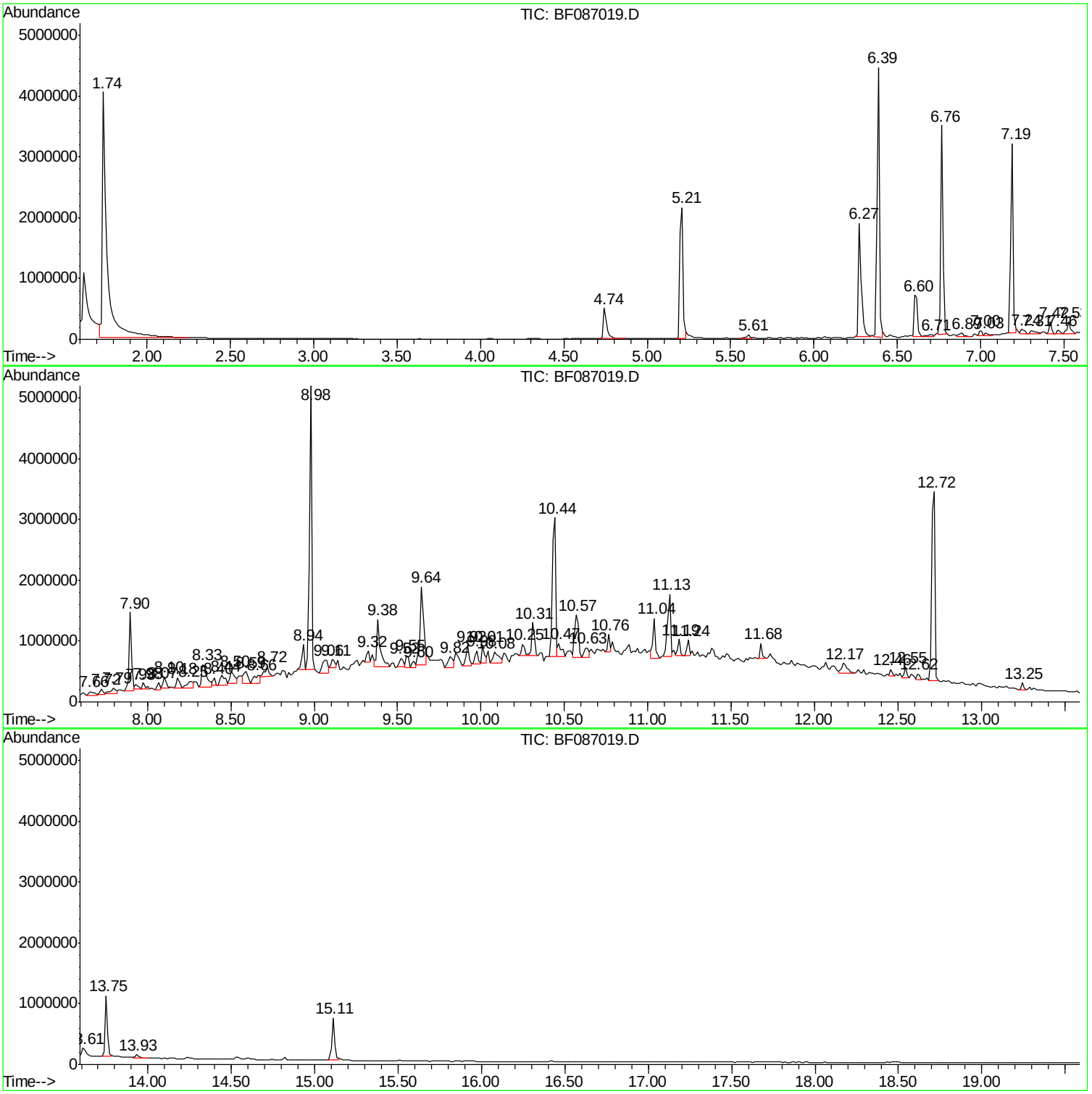
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

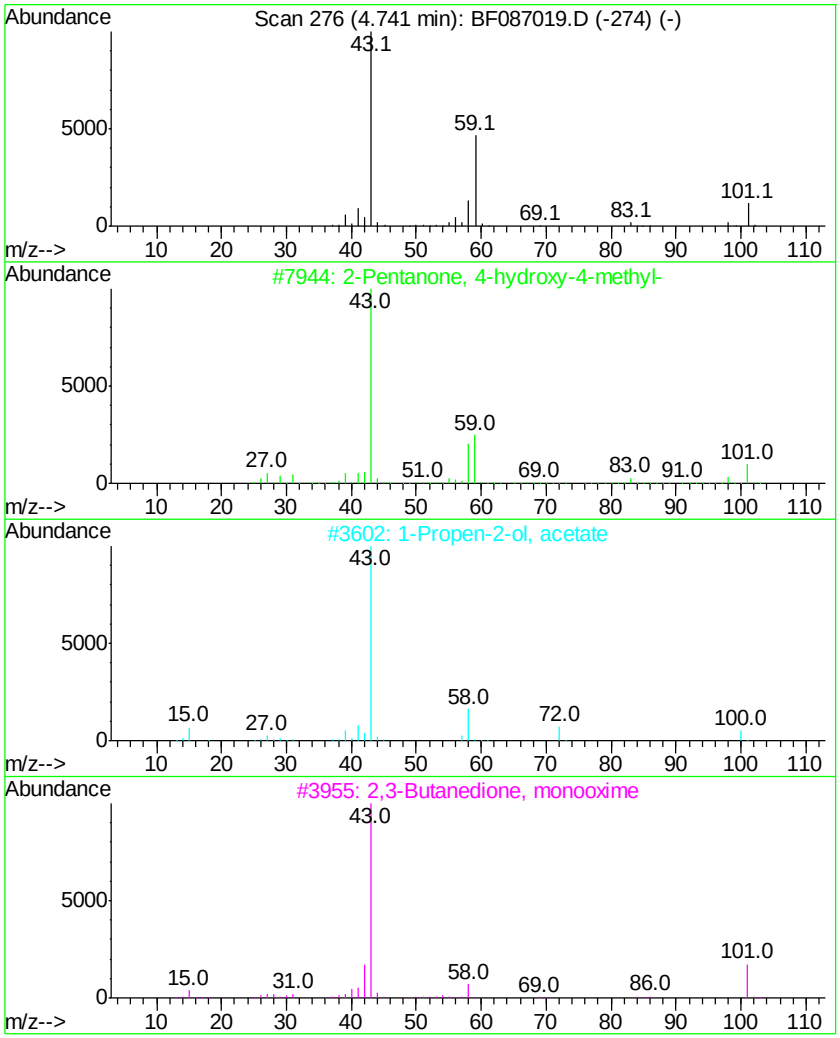
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

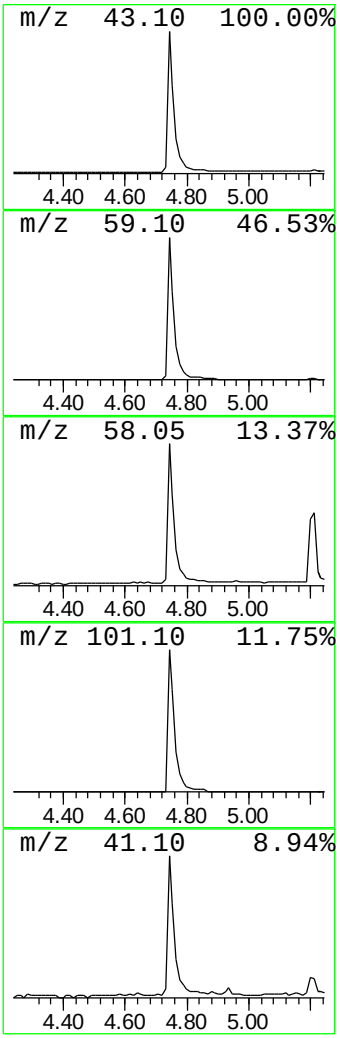
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.74 | 15.51 ng | 768192 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45 |
| 2 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 9 |
| 5 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

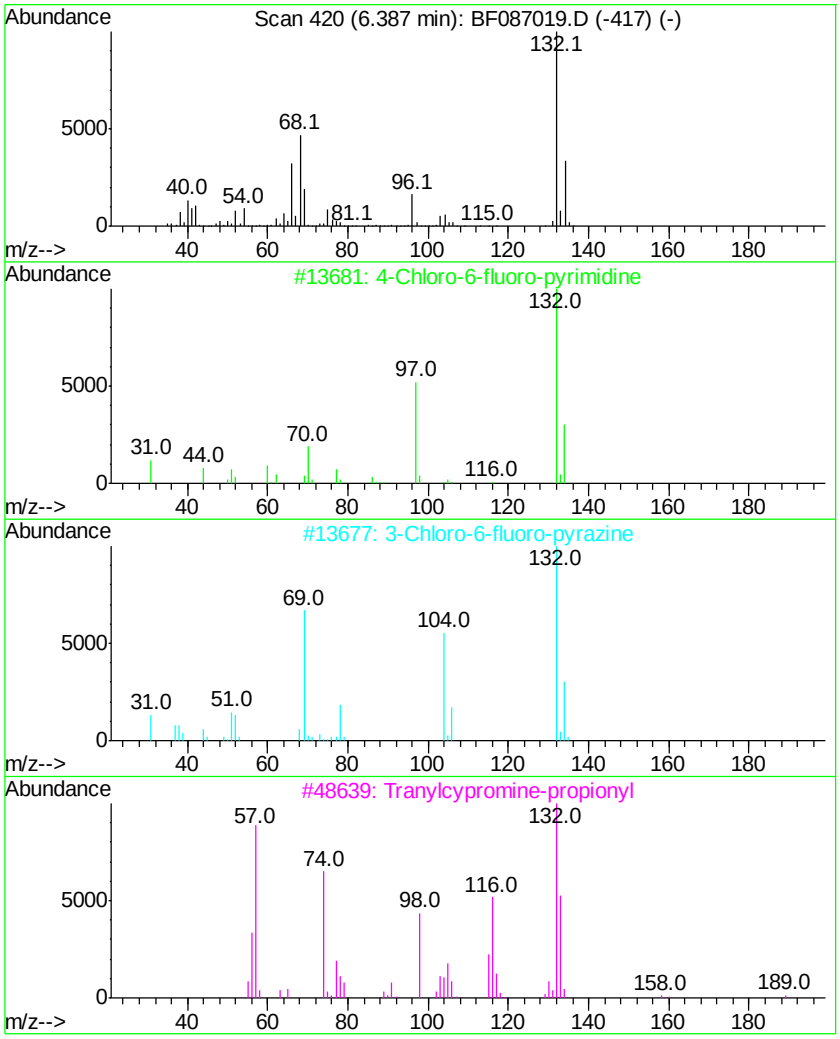
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

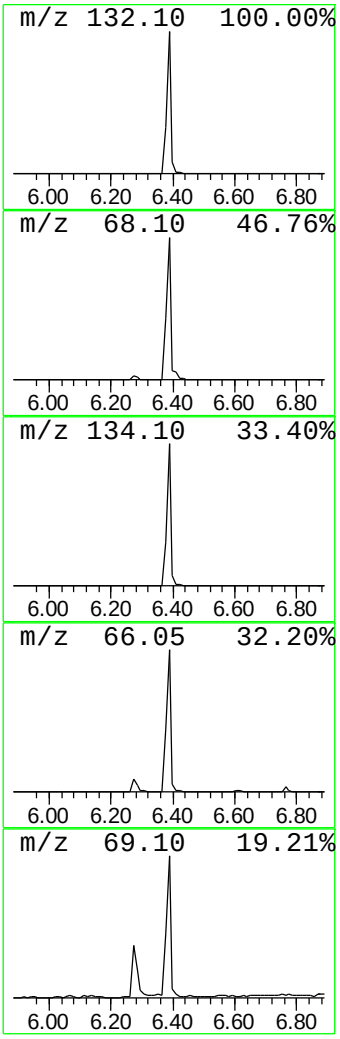
**********

Peak Number 3 unknown6.39 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.39 | 92.27 ng | 4571060 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 22 |
| 4 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

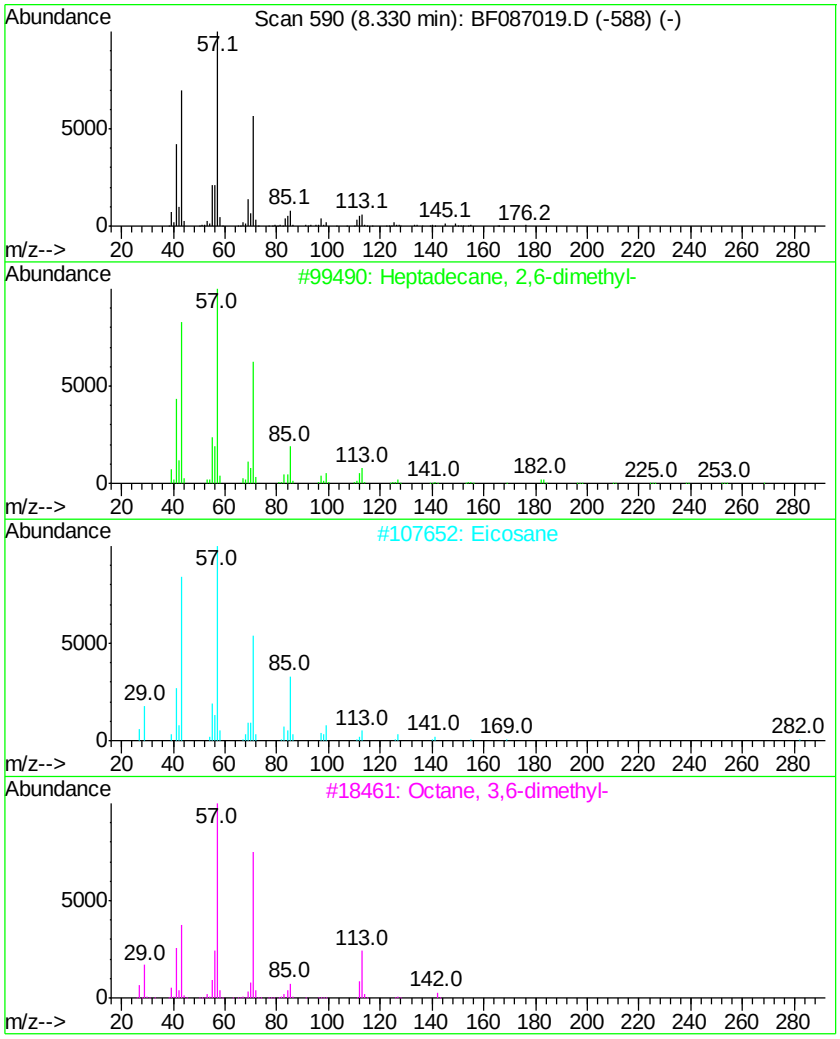
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

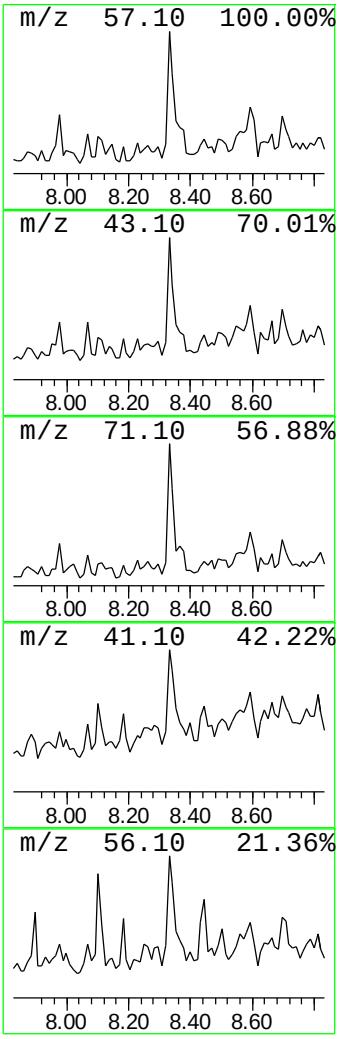
**********

Peak Number 5 Heptadecane, 2,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.33 | 12.23 ng | 846567 | Naphthalene-d8 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 2,6-dimethyl- | 268 | C19H40 | 054105-67-8 | 83 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |
| 3 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 64 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 5 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

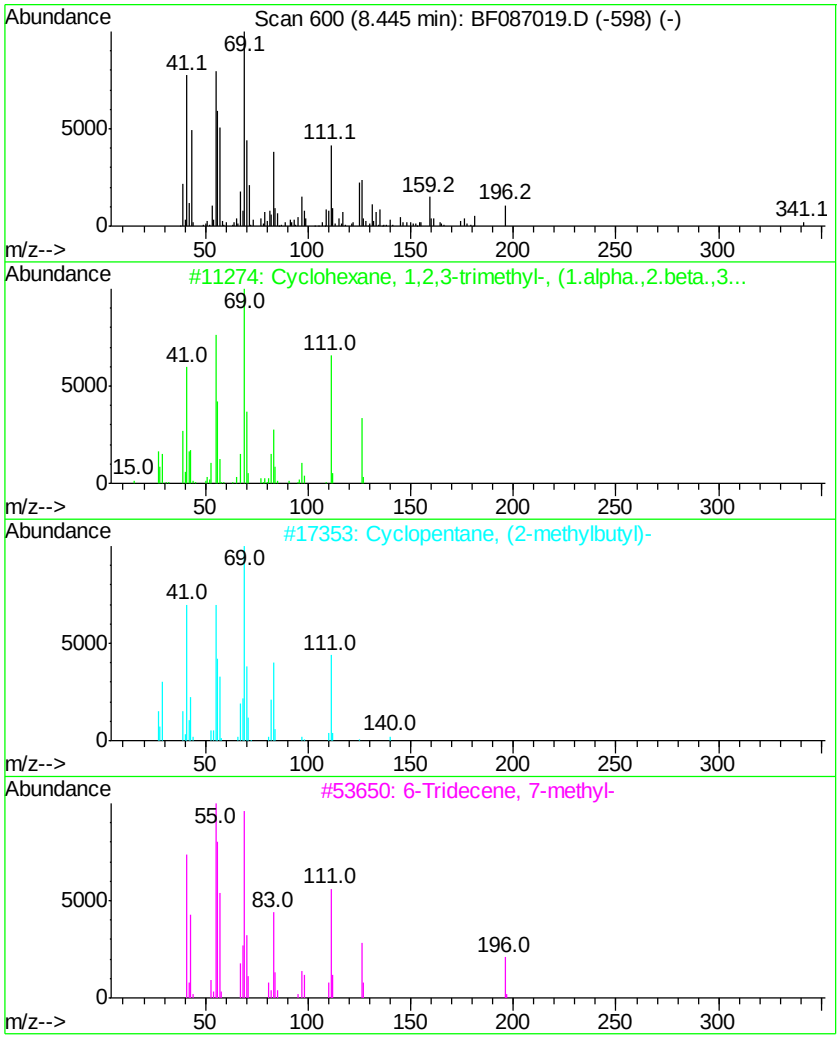
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

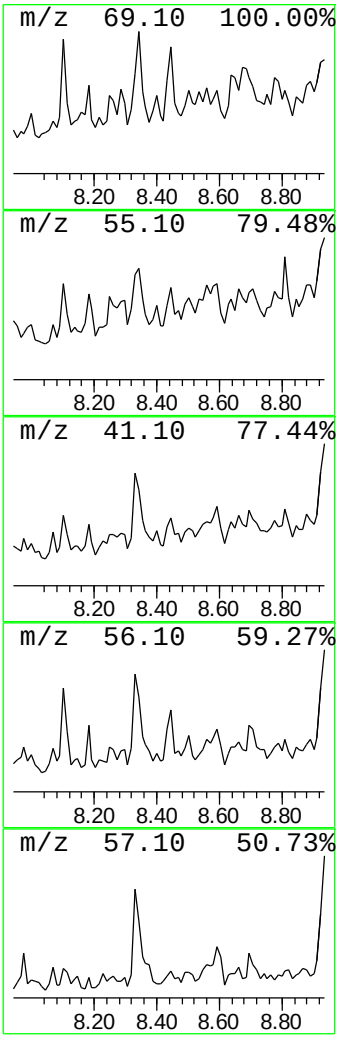
**********

Peak Number 6 Cyclohexane, 1,2,3-trimethy... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.44 | 5.58 ng | 386230 | Naphthalene-d8 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,3-trimethyl-, (... | 126 | C9H18 | 001678-81-5 | 81 |
| 2 | Cyclopentane, (2-methylbutyl)- | 140 | C10H20 | 053366-38-4 | 70 |
| 3 | 6-Tridecene, 7-methyl- | 196 | C14H28 | 024949-42-6 | 68 |
| 4 | Tridecane, 7-methylene- | 196 | C14H28 | 019780-80-4 | 64 |
| 5 | Cyclopentane, 2-ethyl-1,1-dimethyl- | 126 | C9H18 | 054549-80-3 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

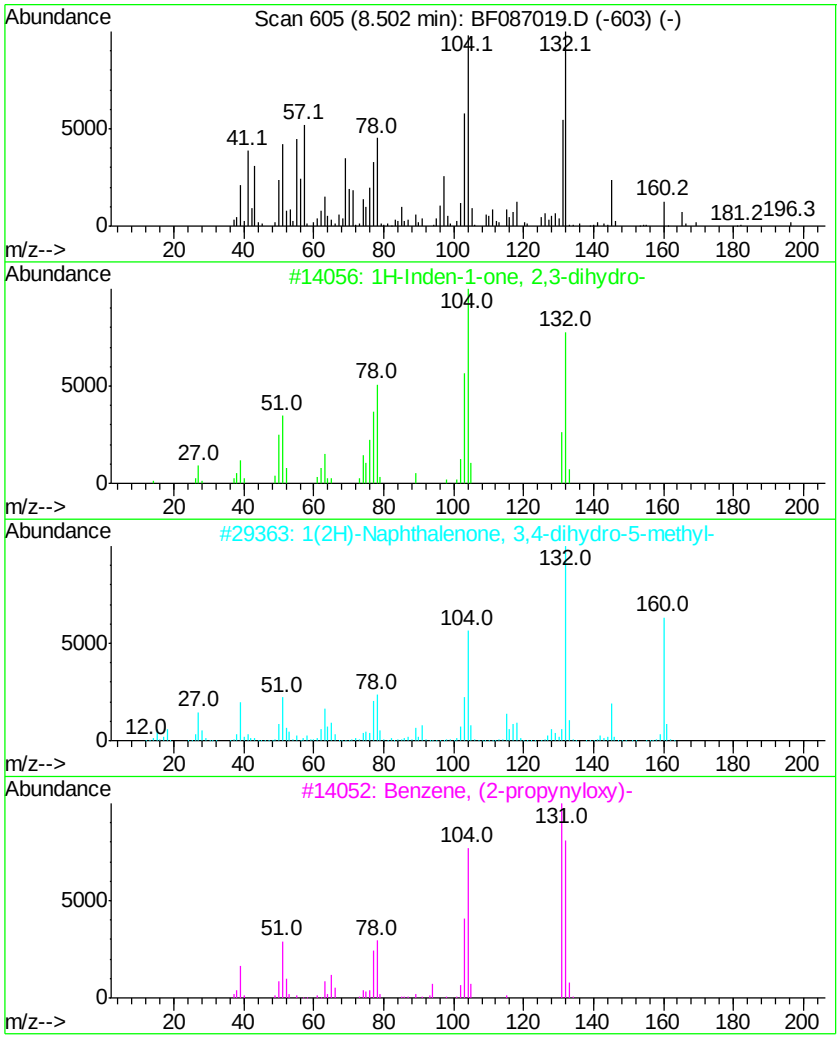
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

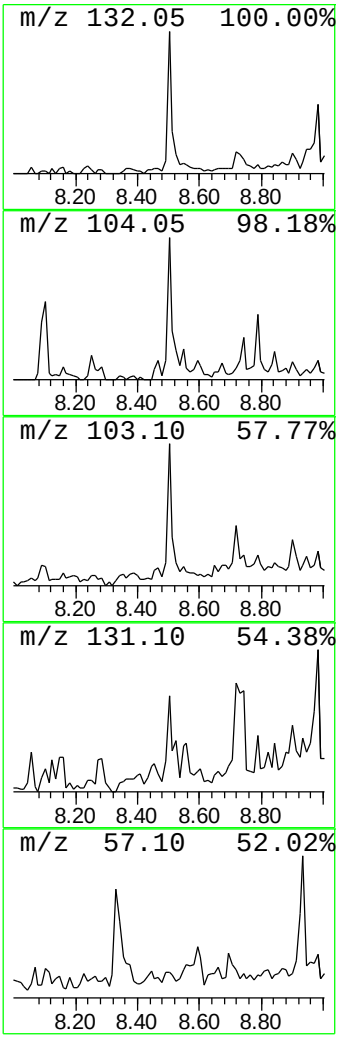
**********

Peak Number 7 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.50 | 5.85 ng | 405042 | Naphthalene-d8 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 93 |
| 2 | 1(2H)-Naphthalenone, 3,4-dihydro... | 160 | C11H12O | 006939-35-1 | 70 |
| 3 | Benzene, (2-propynyloxy)- | 132 | C9H8O | 013610-02-1 | 62 |
| 4 | 2H-Inden-2-one, 1,3-dihydro- | 132 | C9H8O | 000615-13-4 | 53 |
| 5 | 1,3,5,7-Cyclooctatetraene | 104 | C8H8 | 000629-20-9 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

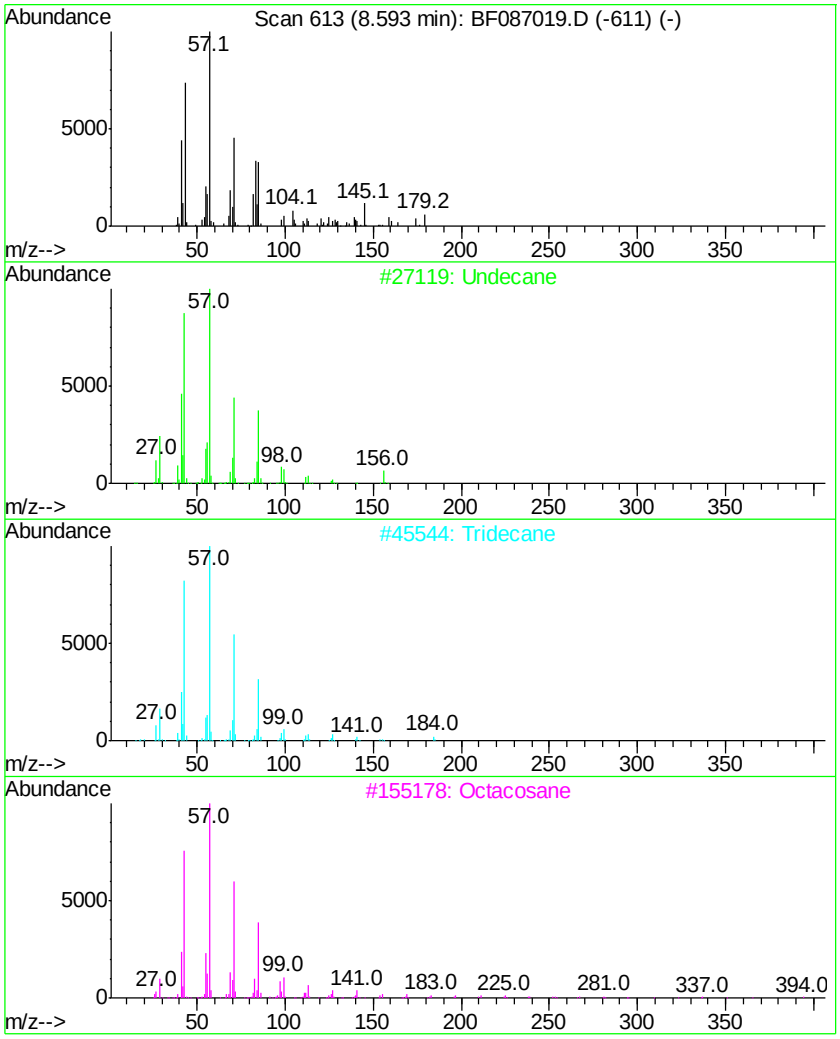
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

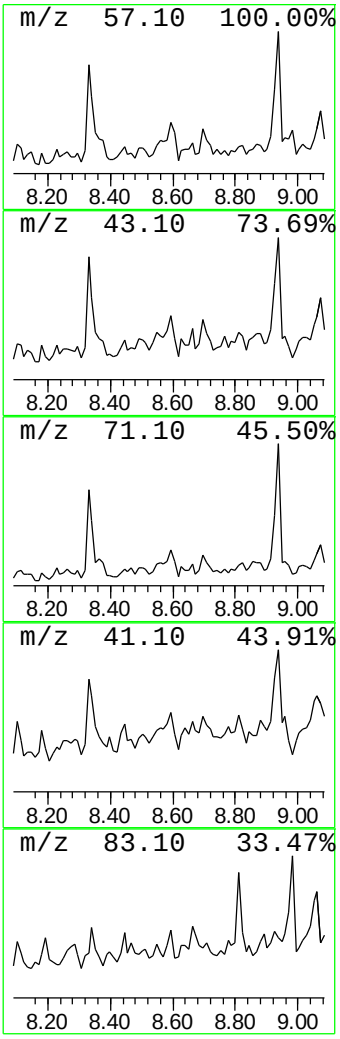
**********

Peak Number 8 Undecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.59 | 4.46 ng | 308673 | Naphthalene-d8 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 50 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 47 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 43 |
| 4 | Undecane, 5,7-dimethyl- | 184 | C13H28 | 017312-83-3 | 43 |
| 5 | Octane, 2,3,3-trimethyl- | 156 | C11H24 | 062016-30-2 | 43 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

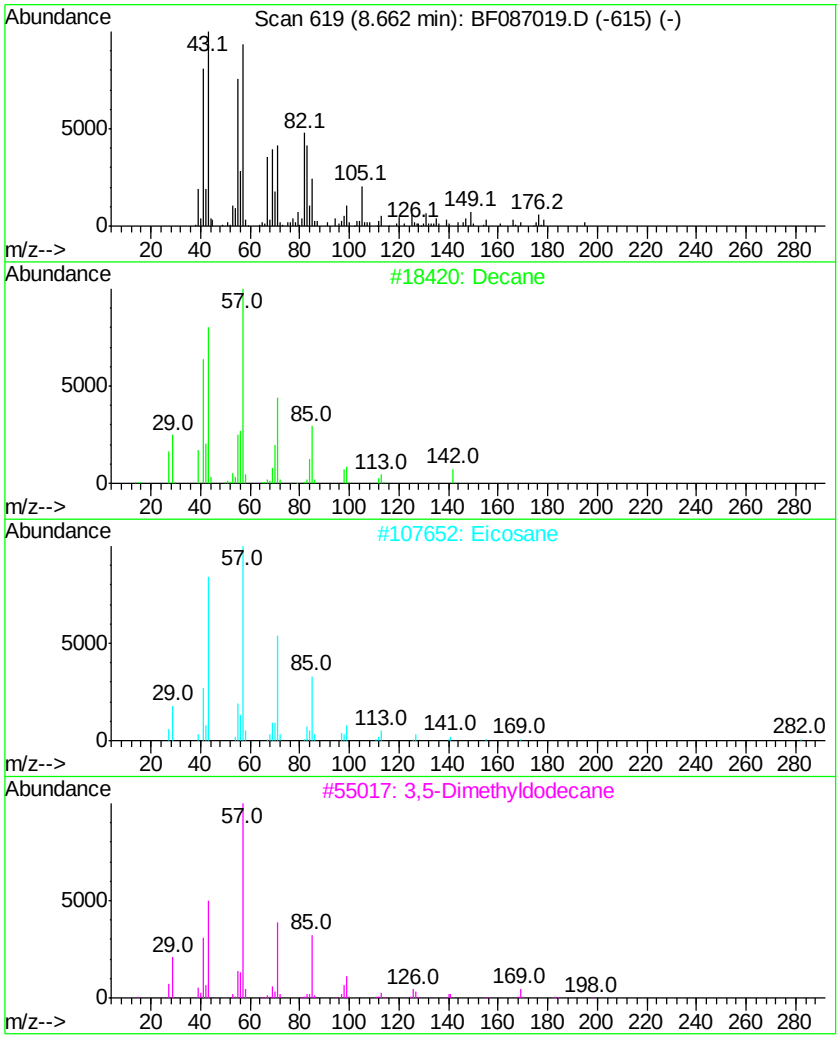
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

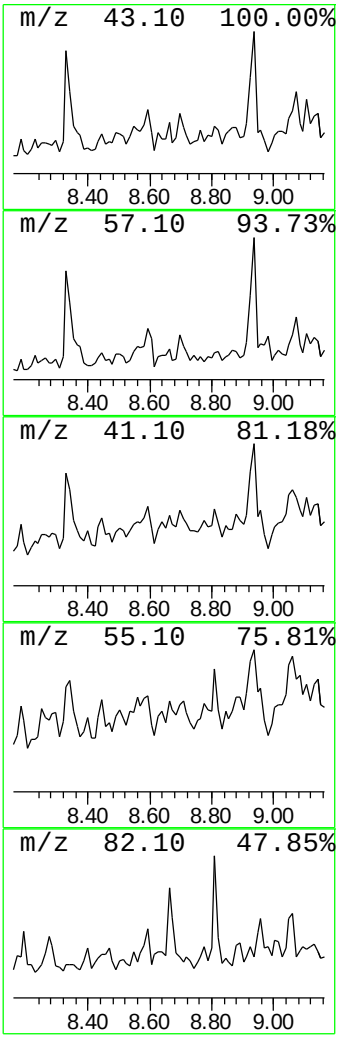
**********

Peak Number 9 unknown8.66 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.66 | 5.62 ng | 388984 | Naphthalene-d8 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 43 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 27 |
| 3 | 3,5-Dimethyldodecane | 198 | C14H30 | 107770-99-0 | 27 |
| 4 | Undecane, 3,9-dimethyl- | 184 | C13H28 | 017301-31-4 | 27 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

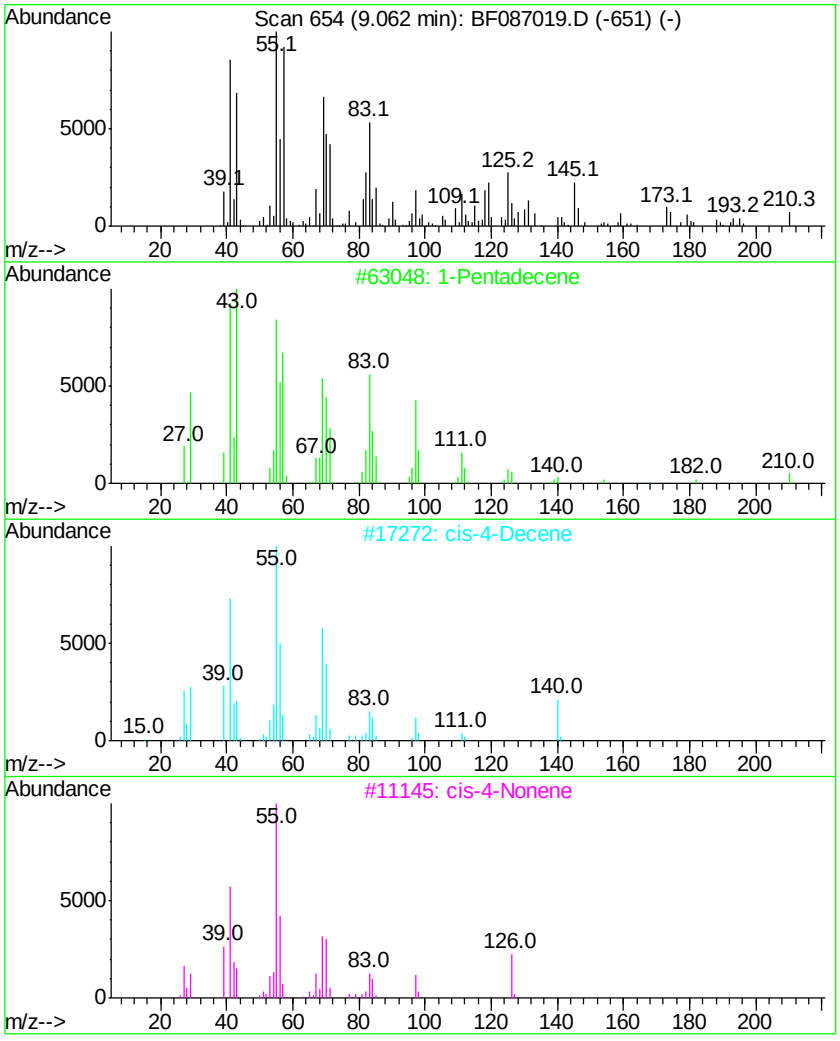
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

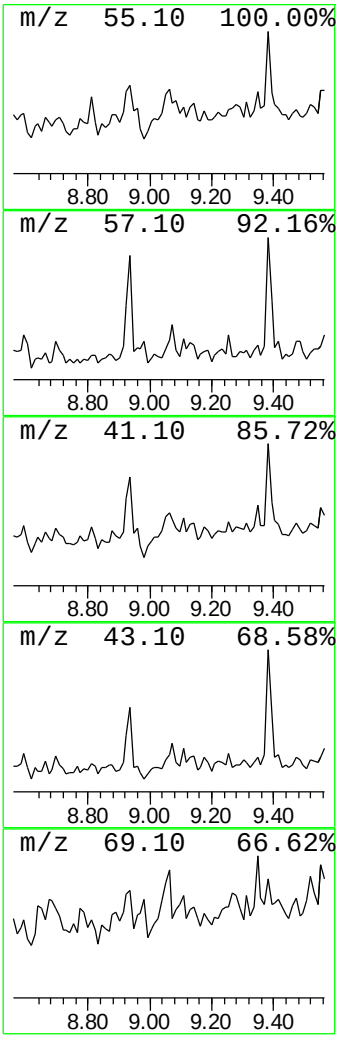
**********

Peak Number 10 unknown9.06 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.06 | 5.89 ng | 505358 | Acenaphthene-d10 | 9.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentadecene | 210 | C15H30 | 013360-61-7 | 49 |
| 2 | cis-4-Decene | 140 | C10H20 | 019398-88-0 | 38 |
| 3 | cis-4-Nonene | 126 | C9H18 | 010405-84-2 | 38 |
| 4 | cis-3-Decene | 140 | C10H20 | 019398-86-8 | 38 |
| 5 | Bicyclo[4.1.0]heptane-7,7-dicarb... | 174 | C11H14N2 | 1000151-31-4 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

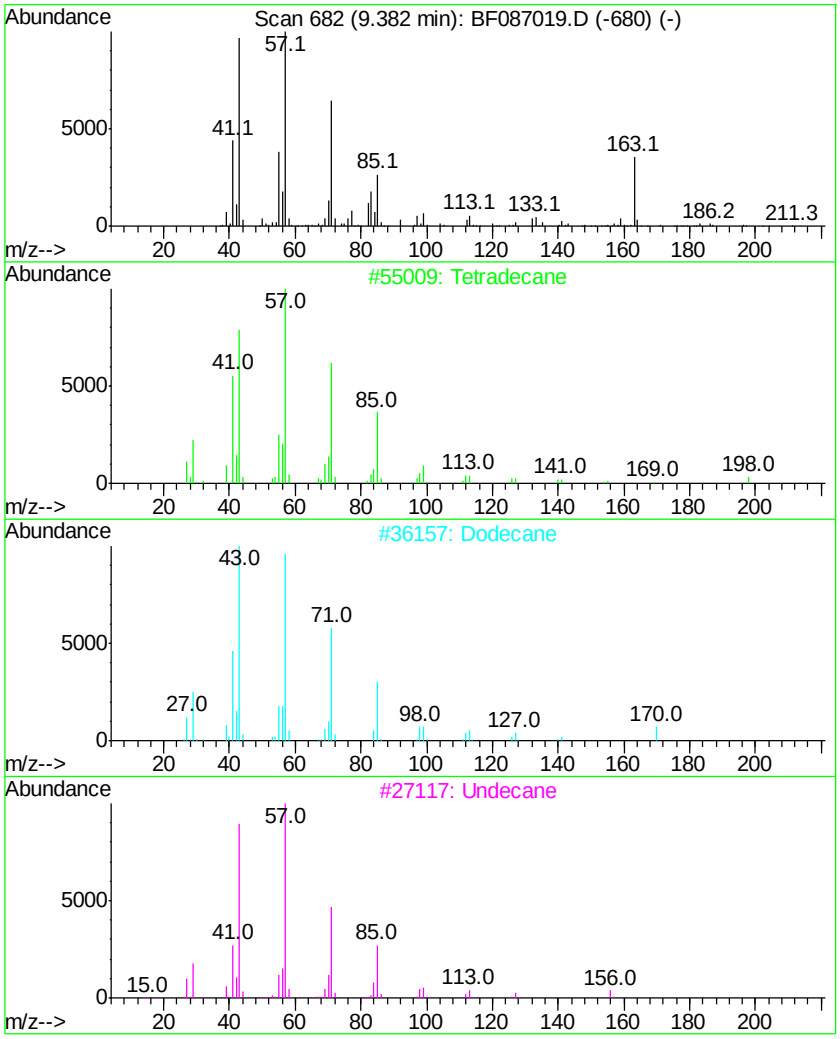
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

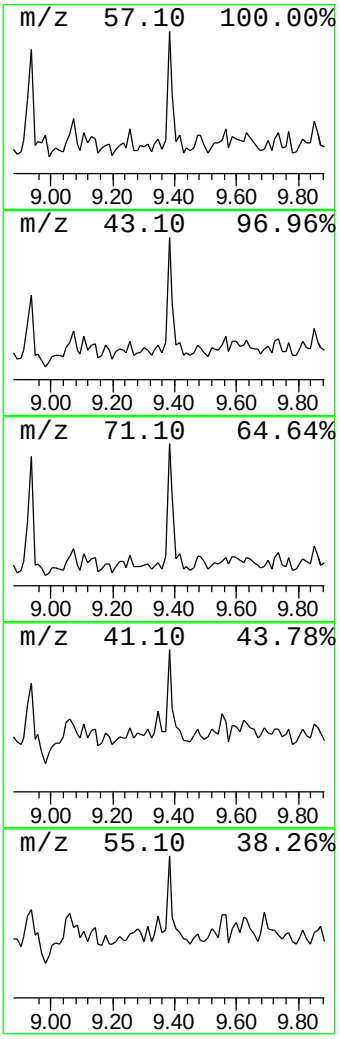
**********

Peak Number 11 Tetradecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.38 | 13.54 ng | 1161300 | Acenaphthene-d10 | 9.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 53 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 53 |
| 3 | Undecane | 156 | C11H24 | 001120-21-4 | 50 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 50 |
| 5 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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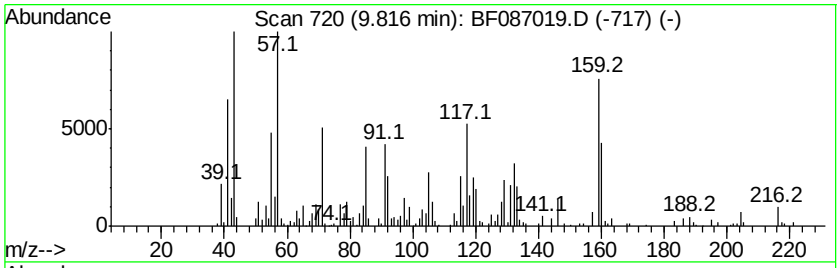
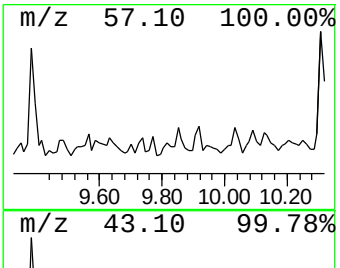
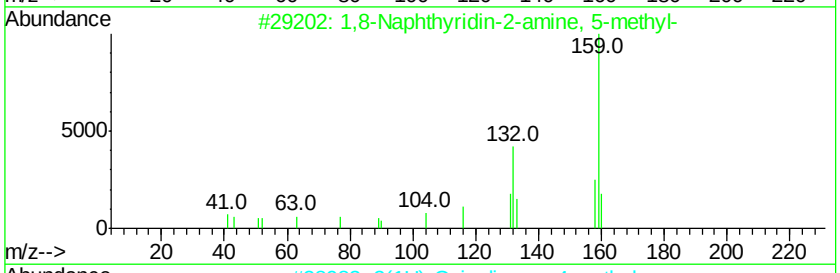
Peak Number 12 unknown9.82 Concentration Rank 18

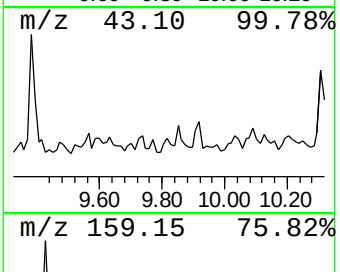
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.82 | 4.51 ng | 386793 | Acenaphthene-d10 | 9.64 |

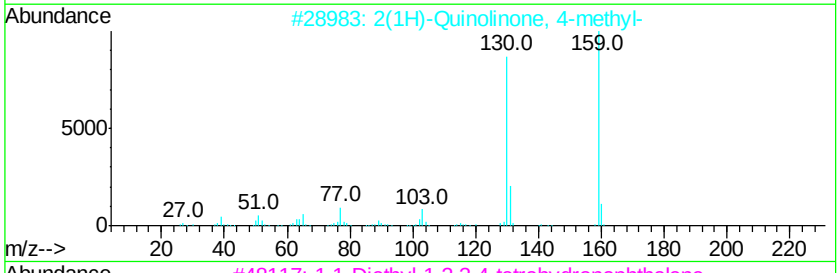
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,8-Naphthyridin-2-amine, 5-methyl- | 159 | C9H9N3 | 001568-92-9 | 27 |
| 2 | 2(1H)-Quinolinone, 4-methyl- | 159 | C10H9NO | 000607-66-9 | 25 |
| 3 | 1,1-Diethyl-1,2,3,4-tetrahydrona... | 188 | C14H20 | 002938-66-1 | 25 |
| 4 | 8-Quinolinol, 2-methyl- | 159 | C10H9NO | 000826-81-3 | 22 |
| 5 | 4-Quinolinol, 2-methyl- | 159 | C10H9NO | 000607-67-0 | 22 |

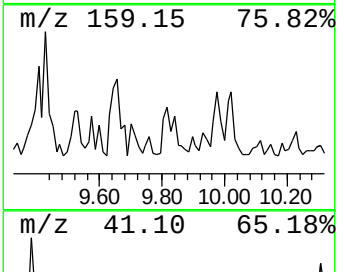


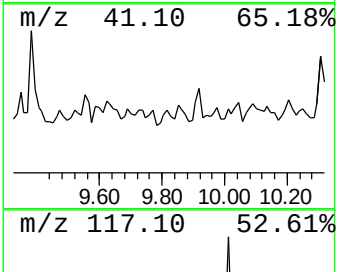



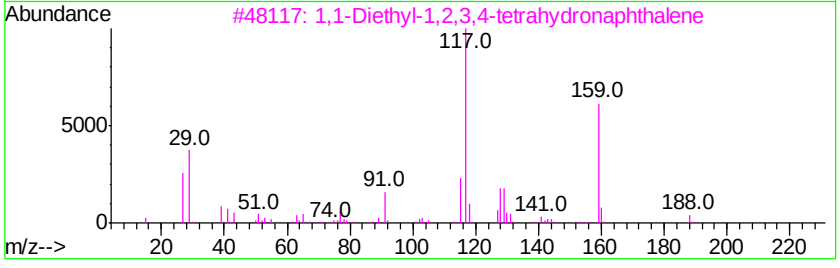



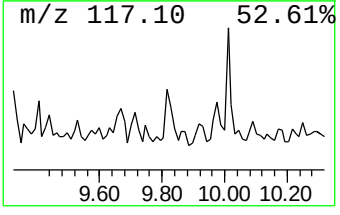



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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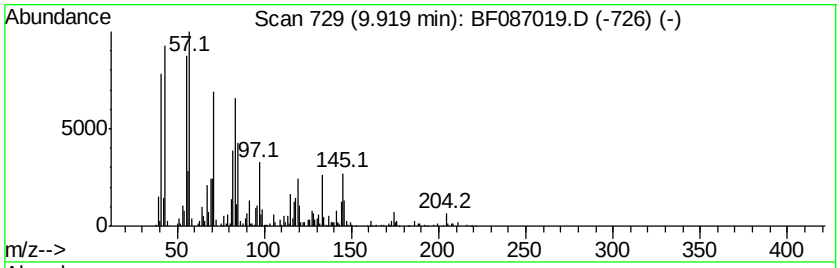
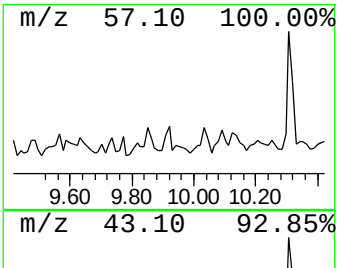
Peak Number 13 unknown9.92 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.92 | 5.05 ng | 433127 | Acenaphthene-d10 | 9.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 25 |
| 2 | Methoxyacetic acid, 2-tetradecyl... | 286 | C17H34O3 | 1000282-04-8 | 25 |
| 3 | Nonacosane | 408 | C29H60 | 000630-03-5 | 22 |
| 4 | 3,7-Decadiene, 2,9-dimethyl- | 166 | C12H22 | 074630-13-0 | 18 |
| 5 | Decane, 2,9-dimethyl- | 170 | C12H26 | 001002-17-1 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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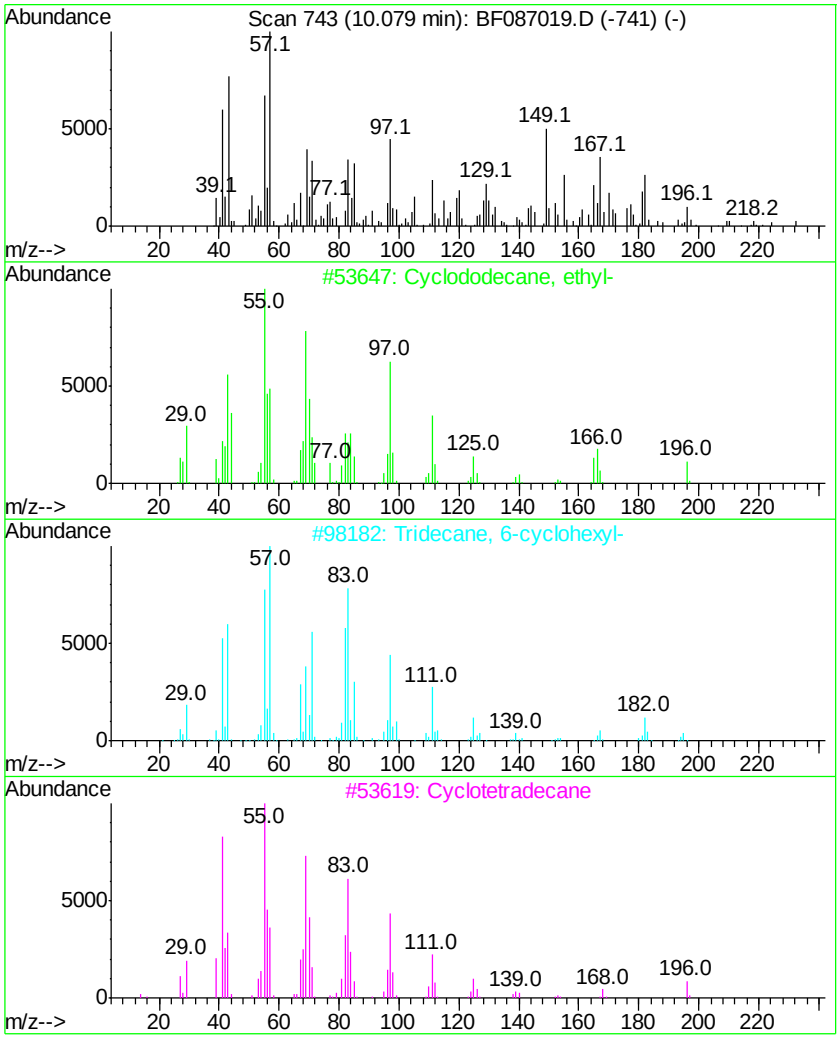
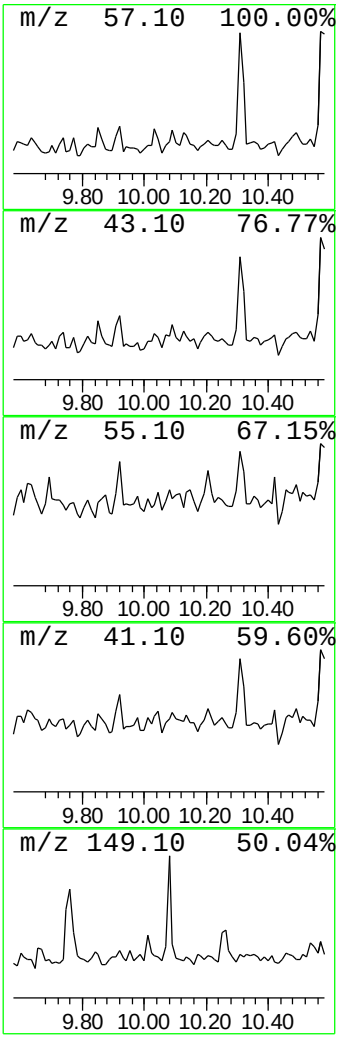
Peak Number 14 unknown10.08 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.08 | 4.89 ng | 419426 | Acenaphthene-d10 | 9.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclododecane, ethyl- | 196 | C14H28 | 028981-49-9 | 30 |
| 2 | Tridecane, 6-cyclohexyl- | 266 | C19H38 | 013151-91-2 | 22 |
| 3 | Cyclotetradecane | 196 | C14H28 | 000295-17-0 | 18 |
| 4 | Cyclohexanone, 5-(1-hydroxy-2-pr... | 182 | C11H18O2 | 141033-66-1 | 14 |
| 5 | 2,4-Hexanedione, 5-methyl-3-(2-m... | 182 | C11H18O2 | 077142-83-7 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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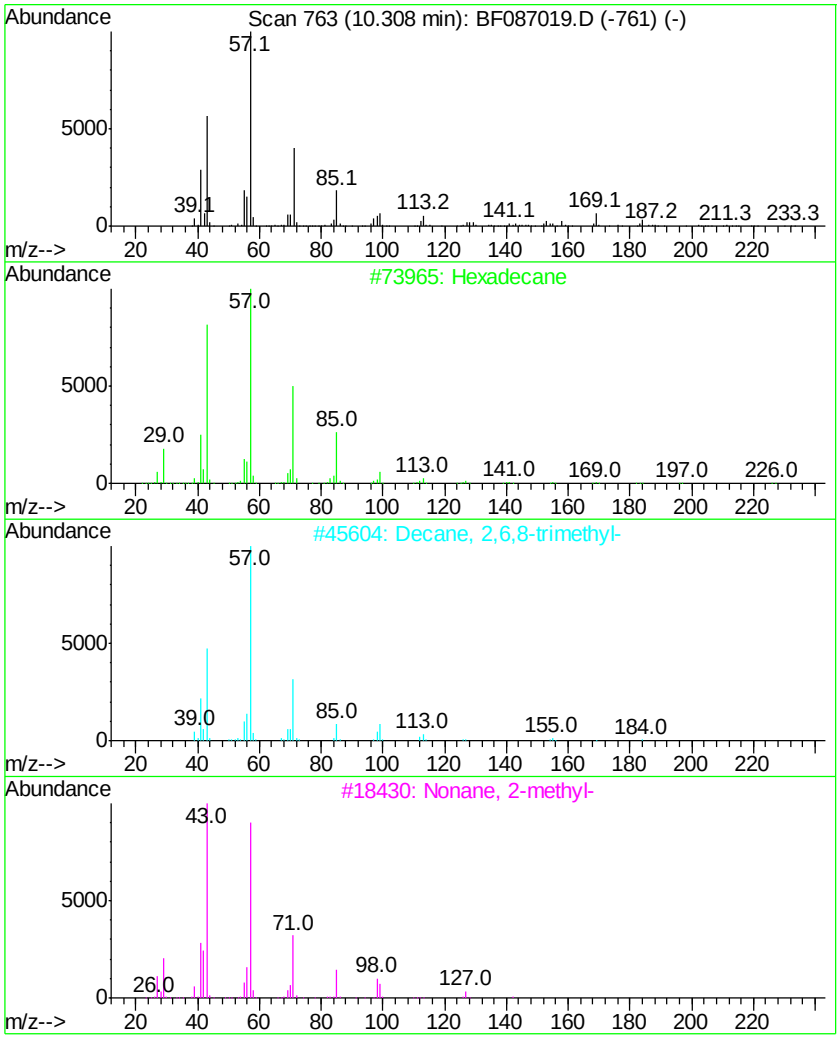
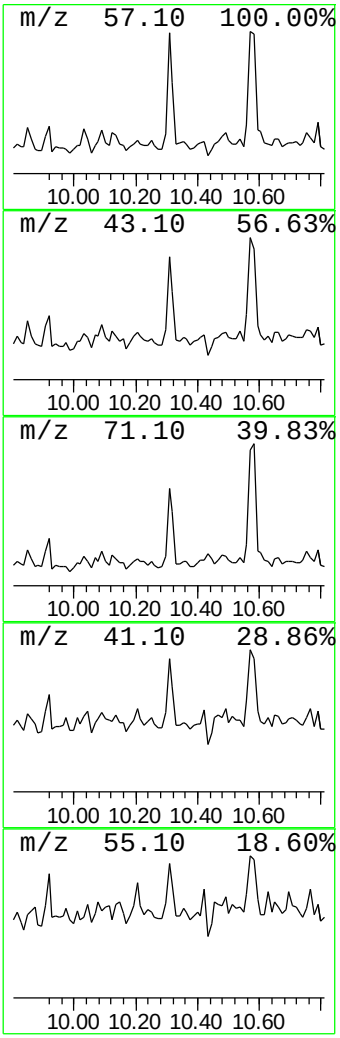
Peak Number 15 Hexadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.31 | 7.45 ng | 638514 | Acenaphthene-d10 | 9.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 2 | Decane, 2,6,8-trimethyl- | 184 | C13H28 | 062108-26-3 | 74 |
| 3 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 72 |
| 4 | Octane, 2,5-dimethyl- | 142 | C10H22 | 015869-89-3 | 72 |
| 5 | Z-2-Tridecen-1-ol | 198 | C13H26O | 1000130-75-8 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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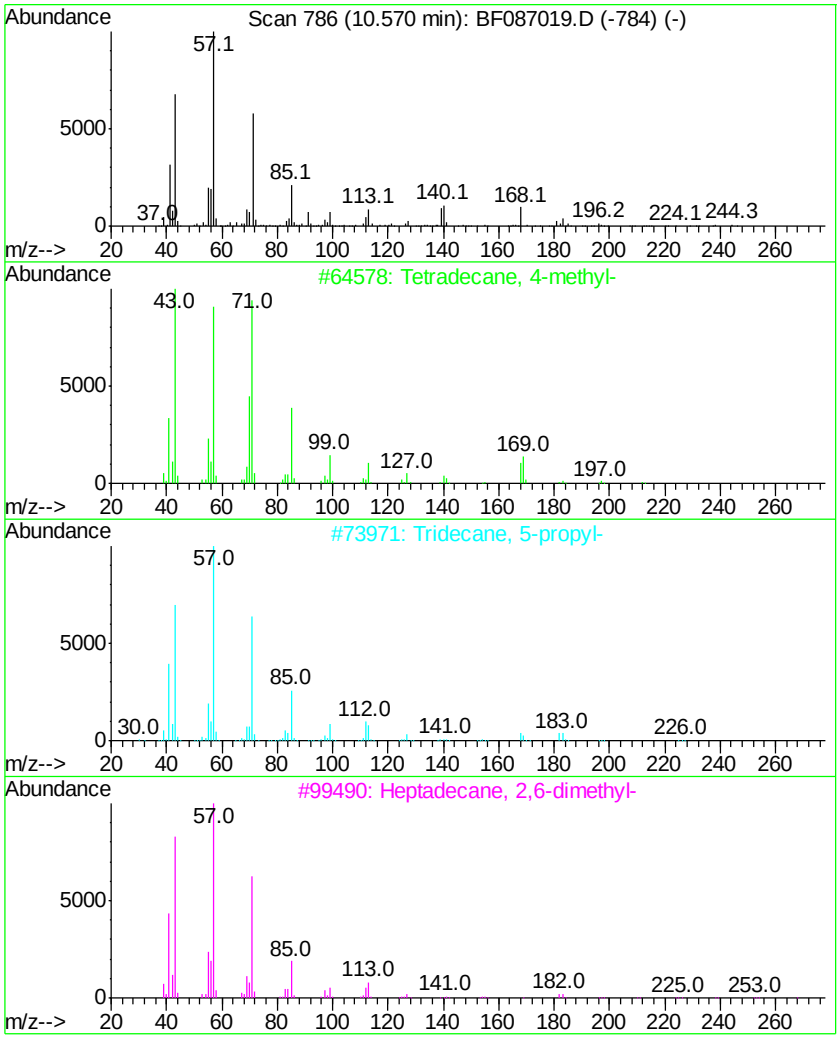
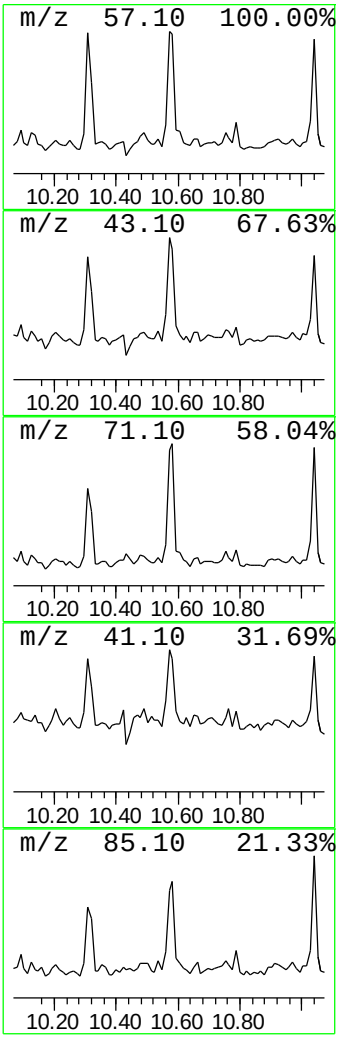
Peak Number 16 Tetradecane, 4-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 18.47 ng | 1166330 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 4-methyl- | 212 | C15H32 | 025117-24-2 | 60 |
| 2 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 58 |
| 3 | Heptadecane, 2,6-dimethyl- | 268 | C19H40 | 054105-67-8 | 53 |
| 4 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 52 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 52 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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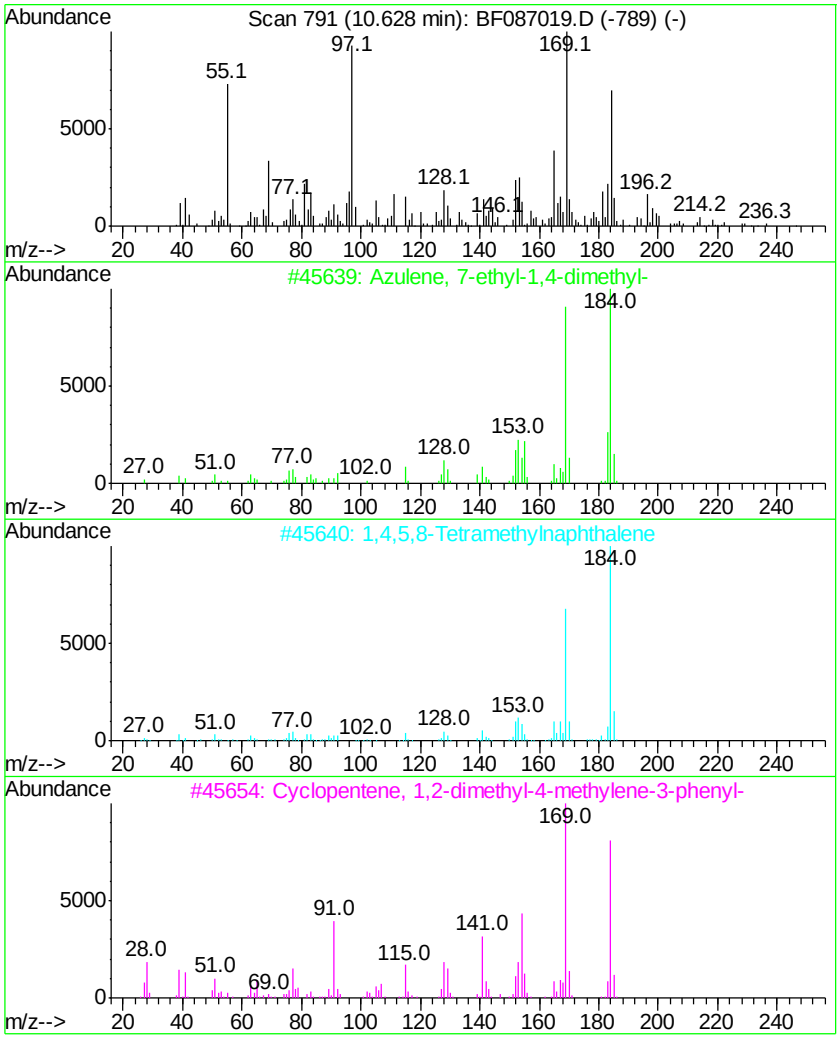
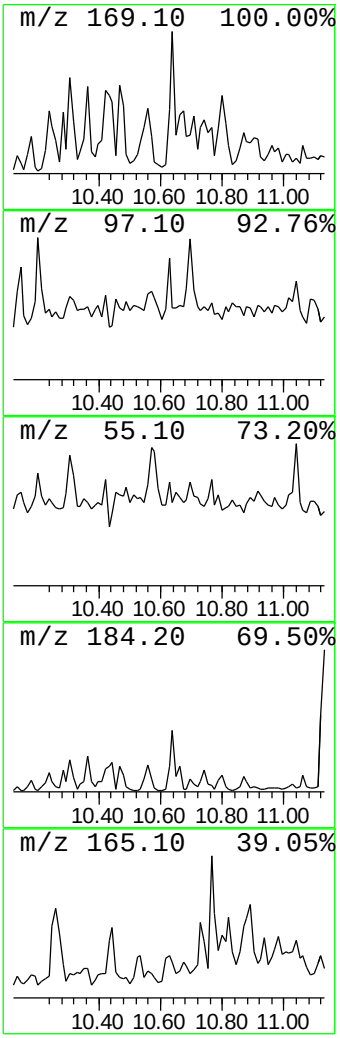
Peak Number 17 Azulene, 7-ethyl-1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 5.06 ng | 319421 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Azulene, 7-ethyl-1,4-dimethyl- | 184 | C14H16 | 000529-05-5 | 78 |
| 2 | 1,4,5,8-Tetramethylnaphthalene | 184 | C14H16 | 002717-39-7 | 70 |
| 3 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 46 |
| 4 | 2,4,6(1H,3H,5H)-Pyrimidinetrione... | 184 | C8H12N2O3 | 007391-61-9 | 46 |
| 5 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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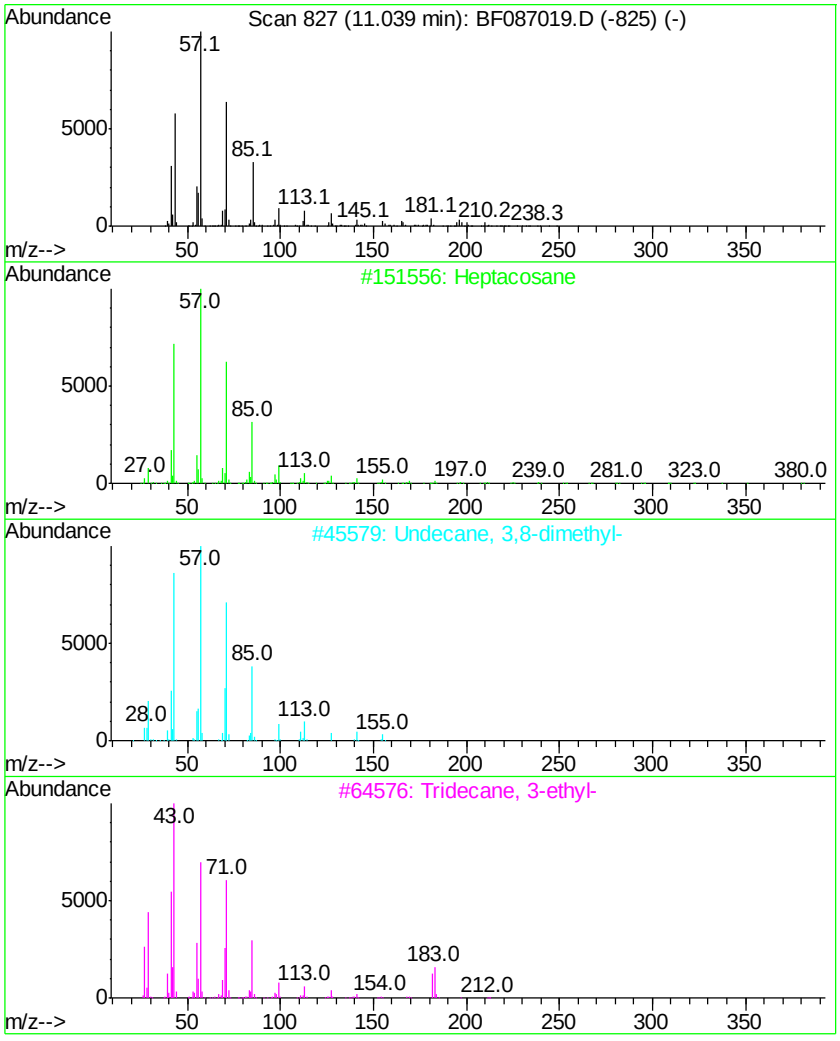
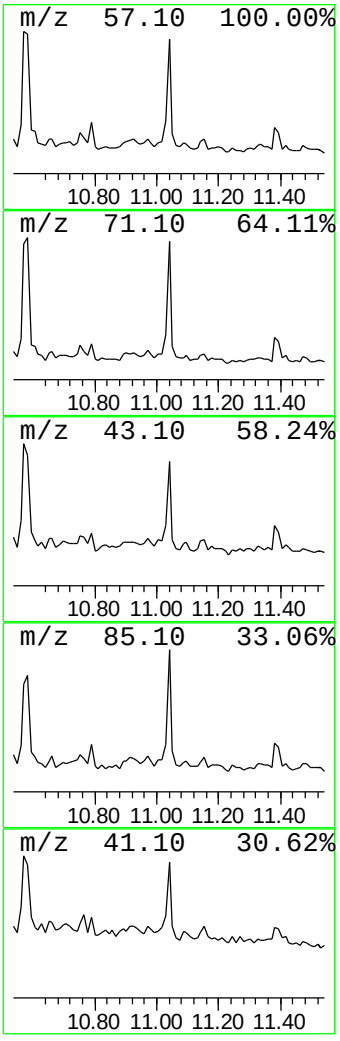
Peak Number 18 Heptacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.04 | 11.51 ng | 727039 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 2 | Undecane, 3,8-dimethyl- | 184 | C13H28 | 017301-30-3 | 80 |
| 3 | Tridecane, 3-ethyl- | 212 | C15H32 | 013286-73-2 | 68 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 59 |
| 5 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

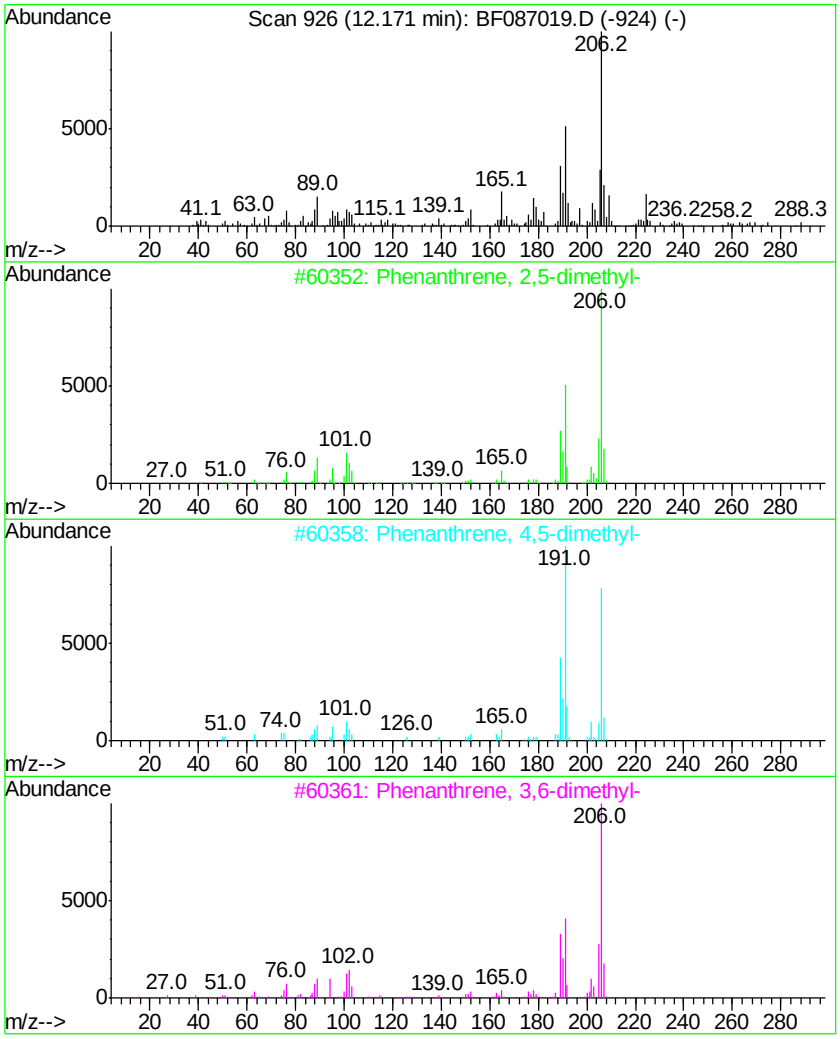
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

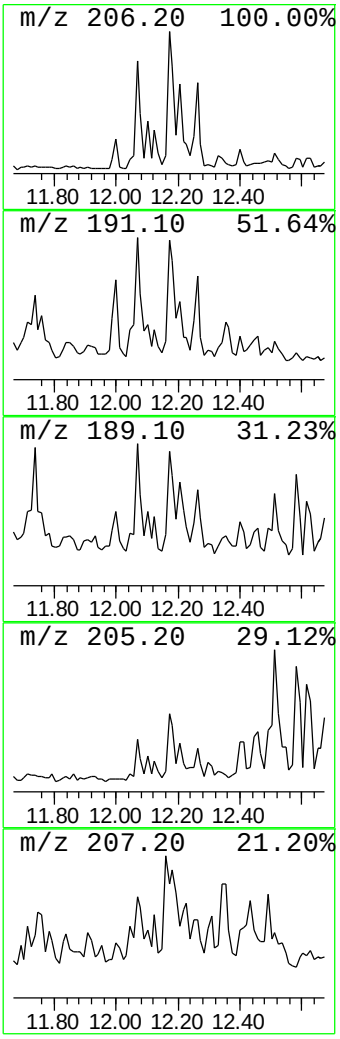
**********

Peak Number 19 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.17 | 5.90 ng | 372501 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 92 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 90 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

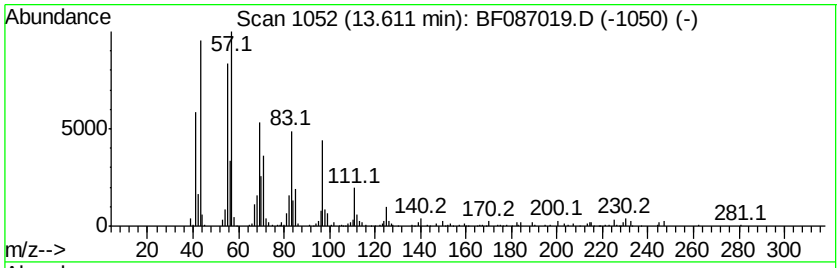
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

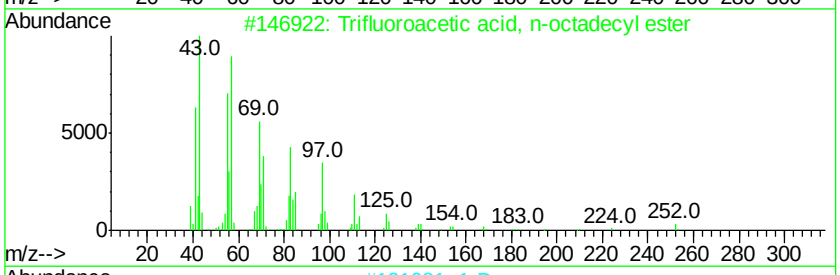
**********

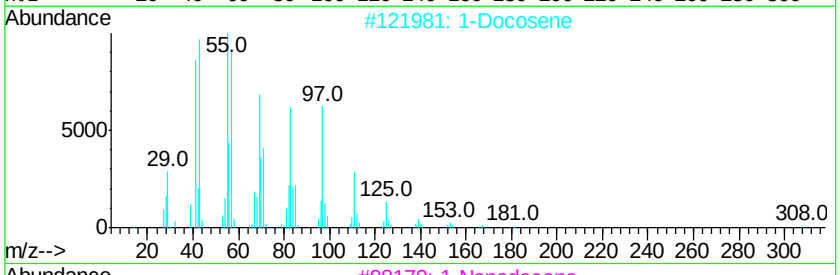
Peak Number 20 Trifluoroacetic acid, n-oct... Concentration Rank 20

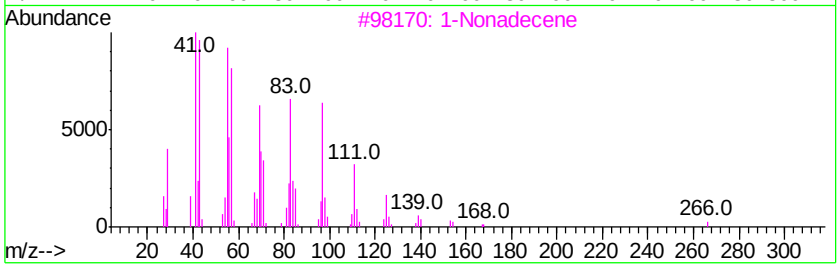
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 4.38 ng | 214933 | Chrysene-d12 | 13.75 |

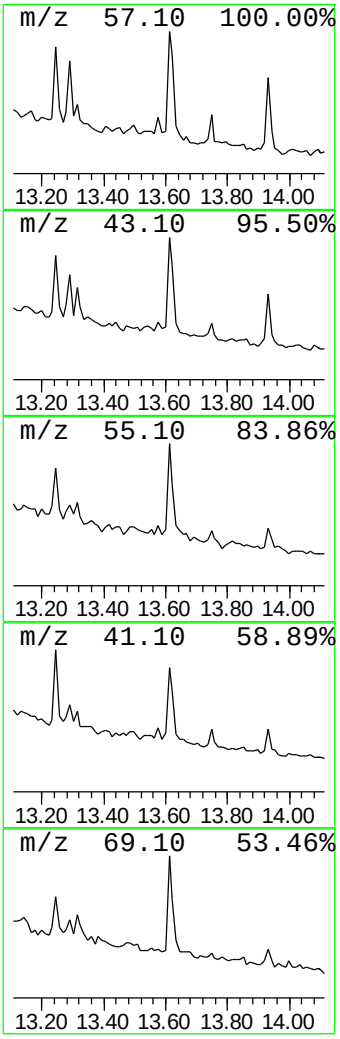
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 87 |
| 2 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 87 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 87 |
| 4 | Heptafluorobutyric acid, n-penta... | 424 | C19H31F7O2 | 1000216-79-3 | 74 |
| 5 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 74 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051316\
Data File : BF087019.D
Acq On : 14 May 2016 14:45
Operator : UM/SJ
Sample : H2990-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OWL-C6-GW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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... | 4.74 | 15.5 | ng | 768192 | 1 | 6.62 | 990798 | 20.0 |
| unknown6.39 | 6.39 | 92.3 | ng | 4571060 | 1 | 6.62 | 990798 | 20.0 |
| Heptadecane, 2,6-... | 8.33 | 12.2 | ng | 846567 | 2 | 7.90 | 1383970 | 20.0 |
| Cyclohexane, 1,2,... | 8.44 | 5.6 | ng | 386230 | 2 | 7.90 | 1383970 | 20.0 |
| 1H-Inden-1-one, 2... | 8.50 | 5.8 | ng | 405042 | 2 | 7.90 | 1383970 | 20.0 |
| Undecane | 8.59 | 4.5 | ng | 308673 | 2 | 7.90 | 1383970 | 20.0 |
| unknown8.66 | 8.66 | 5.6 | ng | 388984 | 2 | 7.90 | 1383970 | 20.0 |
| unknown9.06 | 9.06 | 5.9 | ng | 505358 | 3 | 9.64 | 1715280 | 20.0 |
| Tetradecane | 9.38 | 13.5 | ng | 1161300 | 3 | 9.64 | 1715280 | 20.0 |
| unknown9.82 | 9.82 | 4.5 | ng | 386793 | 3 | 9.64 | 1715280 | 20.0 |
| unknown9.92 | 9.92 | 5.0 | ng | 433127 | 3 | 9.64 | 1715280 | 20.0 |
| unknown10.08 | 10.08 | 4.9 | ng | 419426 | 3 | 9.64 | 1715280 | 20.0 |
| Hexadecane | 10.31 | 7.5 | ng | 638514 | 3 | 9.64 | 1715280 | 20.0 |
| Tetradecane, 4-me... | 10.57 | 18.5 | ng | 1166330 | 4 | 11.13 | 1263060 | 20.0 |
| Azulene, 7-ethyl-... | 10.63 | 5.1 | ng | 319421 | 4 | 11.13 | 1263060 | 20.0 |
| Heptacosane | 11.04 | 11.5 | ng | 727039 | 4 | 11.13 | 1263060 | 20.0 |
| Phenanthrene, 2,5... | 12.17 | 5.9 | ng | 372501 | 4 | 11.13 | 1263060 | 20.0 |
| Trifluoroacetic a... | 13.61 | 4.4 | ng | 214933 | 5 | 13.75 | 980410 | 20.0 |