LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

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-BF031816.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 | 4.504 | 191 | 194 | 197 | rVB | 130237 | 150536 | 5.33% | 0.475% |
| 2 | 5.030 | 237 | 240 | 249 | rVB | 226881 | 322826 | 11.43% | 1.019% |
| 3 | 5.441 | 274 | 276 | 279 | rBV | 2220598 | 2485994 | 87.98% | 7.847% |
| 4 | 6.481 | 364 | 367 | 369 | rBV | 2376117 | 2825562 | 100.00% | 8.919% |
| 5 | 6.607 | 376 | 378 | 381 | rBV | 2513239 | 2598741 | 91.97% | 8.203% |
| 6 | 6.836 | 396 | 398 | 401 | rBV | 576195 | 684185 | 24.21% | 2.160% |
| 7 | 6.996 | 410 | 412 | 415 | rBV | 2314719 | 2164213 | 76.59% | 6.831% |
| 8 | 7.407 | 445 | 448 | 450 | rBV | 1833624 | 1789872 | 63.35% | 5.650% |
| 9 | 7.499 | 454 | 456 | 459 | rVV | 37378 | 54057 | 1.91% | 0.171% |
| 10 | 8.127 | 508 | 511 | 513 | rBV | 1040834 | 914857 | 32.38% | 2.888% |
| 11 | 9.202 | 602 | 605 | 608 | rBV | 3032285 | 2730677 | 96.64% | 8.620% |
| 12 | 9.282 | 610 | 612 | 617 | rVB | 24018 | 35419 | 1.25% | 0.112% |
| 13 | 9.533 | 633 | 634 | 638 | rBV3 | 24110 | 51367 | 1.82% | 0.162% |
| 14 | 9.602 | 638 | 640 | 642 | rBV | 338288 | 470022 | 16.63% | 1.484% |
| 15 | 9.739 | 650 | 652 | 654 | rBV | 83290 | 67849 | 2.40% | 0.214% |
| 16 | 9.819 | 656 | 659 | 660 | rVB | 45682 | 62574 | 2.21% | 0.198% |
| 17 | 9.876 | 662 | 664 | 666 | rVV | 883655 | 835354 | 29.56% | 2.637% |
| 18 | 10.082 | 680 | 682 | 683 | rBV2 | 32092 | 36901 | 1.31% | 0.116% |
| 19 | 10.127 | 683 | 686 | 688 | rVB3 | 18661 | 38630 | 1.37% | 0.122% |
| 20 | 10.196 | 688 | 692 | 693 | rBV2 | 20777 | 30011 | 1.06% | 0.095% |
| 21 | 10.288 | 698 | 700 | 701 | rBV | 36150 | 46632 | 1.65% | 0.147% |
| 22 | 10.310 | 701 | 702 | 704 | rVB | 107024 | 77854 | 2.76% | 0.246% |
| 23 | 10.425 | 710 | 712 | 715 | rVB2 | 24058 | 41254 | 1.46% | 0.130% |
| 24 | 10.528 | 719 | 721 | 724 | rVV2 | 36427 | 60197 | 2.13% | 0.190% |
| 25 | 10.665 | 730 | 733 | 736 | rBV | 1447866 | 1468540 | 51.97% | 4.636% |
| 26 | 10.790 | 742 | 744 | 748 | rBV2 | 96583 | 174041 | 6.16% | 0.549% |
| 27 | 10.973 | 758 | 760 | 761 | rBV | 33396 | 39000 | 1.38% | 0.123% |
| 28 | 11.122 | 769 | 773 | 776 | rVB3 | 20897 | 37201 | 1.32% | 0.117% |
| 29 | 11.236 | 779 | 783 | 784 | rBV2 | 58893 | 84633 | 3.00% | 0.267% |
| 30 | 11.259 | 784 | 785 | 788 | rVB | 46601 | 44677 | 1.58% | 0.141% |
| 31 | 11.362 | 792 | 794 | 795 | rBV | 846419 | 761674 | 26.96% | 2.404% |
| 32 | 11.430 | 798 | 800 | 802 | rVB2 | 42054 | 65269 | 2.31% | 0.206% |
| 33 | 11.476 | 802 | 804 | 805 | rBV2 | 24040 | 28862 | 1.02% | 0.091% |
| 34 | 11.590 | 811 | 814 | 817 | rBV3 | 27121 | 59043 | 2.09% | 0.186% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

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-BF031816.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.659 | 818 | 820 | 821 | rVV | 62176 | 57320 | 2.03% | 0.181% |
| 36 | 11.693 | 821 | 823 | 826 | rVB | 30183 | 34859 | 1.23% | 0.110% |
| 37 | 11.865 | 835 | 838 | 839 | rBV | 91747 | 91657 | 3.24% | 0.289% |
| 38 | 11.888 | 839 | 840 | 843 | rVV | 250183 | 267543 | 9.47% | 0.845% |
| 39 | 11.968 | 846 | 847 | 852 | rVB | 115832 | 207709 | 7.35% | 0.656% |
| 40 | 12.059 | 852 | 855 | 857 | rBV2 | 26685 | 48048 | 1.70% | 0.152% |
| 41 | 12.162 | 860 | 864 | 865 | rBV | 42476 | 68303 | 2.42% | 0.216% |
| 42 | 12.311 | 874 | 877 | 878 | rBV2 | 28589 | 48898 | 1.73% | 0.154% |
| 43 | 12.333 | 878 | 879 | 883 | rVB | 31401 | 51737 | 1.83% | 0.163% |
| 44 | 12.413 | 883 | 886 | 887 | rBV | 97975 | 119045 | 4.21% | 0.376% |
| 45 | 12.448 | 887 | 889 | 892 | rVB | 69996 | 106557 | 3.77% | 0.336% |
| 46 | 12.493 | 892 | 893 | 897 | rVB | 49713 | 65646 | 2.32% | 0.207% |
| 47 | 12.573 | 897 | 900 | 902 | rBV | 434272 | 422320 | 14.95% | 1.333% |
| 48 | 12.619 | 902 | 904 | 907 | rVB2 | 21142 | 38630 | 1.37% | 0.122% |
| 49 | 12.676 | 907 | 909 | 915 | rBV4 | 105975 | 217929 | 7.71% | 0.688% |
| 50 | 12.802 | 915 | 920 | 921 | rVV | 344045 | 486921 | 17.23% | 1.537% |
| 51 | 12.859 | 923 | 925 | 927 | rVB | 37077 | 49950 | 1.77% | 0.158% |
| 52 | 12.951 | 930 | 933 | 935 | rVB | 1310876 | 1831650 | 64.82% | 5.782% |
| 53 | 13.019 | 936 | 939 | 943 | rBV3 | 62917 | 108778 | 3.85% | 0.343% |
| 54 | 13.122 | 945 | 948 | 950 | rVB | 75799 | 146945 | 5.20% | 0.464% |
| 55 | 13.179 | 950 | 953 | 956 | rBV2 | 75770 | 160379 | 5.68% | 0.506% |
| 56 | 13.225 | 956 | 957 | 959 | rBV | 49472 | 67400 | 2.39% | 0.213% |
| 57 | 13.328 | 961 | 966 | 967 | rBV | 46023 | 73242 | 2.59% | 0.231% |
| 58 | 13.351 | 967 | 968 | 970 | rBV | 60532 | 57204 | 2.02% | 0.181% |
| 59 | 13.431 | 972 | 975 | 980 | rBV | 185796 | 501481 | 17.75% | 1.583% |
| 60 | 13.522 | 980 | 983 | 985 | rBV2 | 103311 | 172785 | 6.12% | 0.545% |
| 61 | 13.636 | 990 | 993 | 995 | rVB2 | 56674 | 75208 | 2.66% | 0.237% |
| 62 | 13.739 | 999 | 1002 | 1004 | rBV2 | 56159 | 110058 | 3.90% | 0.347% |
| 63 | 13.842 | 1009 | 1011 | 1016 | rVB | 460246 | 586809 | 20.77% | 1.852% |
| 64 | 13.991 | 1021 | 1024 | 1030 | rBV2 | 713536 | 1157066 | 40.95% | 3.652% |
| 65 | 14.105 | 1030 | 1034 | 1036 | rBV4 | 54004 | 132034 | 4.67% | 0.417% |
| 66 | 14.162 | 1037 | 1039 | 1042 | rVB | 171875 | 179691 | 6.36% | 0.567% |
| 67 | 14.379 | 1054 | 1058 | 1060 | rBV | 85470 | 146913 | 5.20% | 0.464% |
| 68 | 14.414 | 1060 | 1061 | 1063 | rVV2 | 52551 | 61464 | 2.18% | 0.194% |
| 69 | 14.471 | 1063 | 1066 | 1068 | rVV3 | 151615 | 232839 | 8.24% | 0.735% |
| 70 | 14.505 | 1068 | 1069 | 1073 | rVB2 | 58230 | 87370 | 3.09% | 0.276% |
| 71 | 14.768 | 1090 | 1092 | 1093 | rBV | 99046 | 111953 | 3.96% | 0.353% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

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-BF031816.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.008 | 1111 | 1113 | 1117 | rBV | 192067 | 388442 | 13.75% | 1.226% |
| 73 | 15.088 | 1117 | 1120 | 1121 | rBV2 | 76042 | 85182 | 3.01% | 0.269% |
| 74 | 15.305 | 1136 | 1139 | 1141 | rVB | 97229 | 156132 | 5.53% | 0.493% |
| 75 | 15.362 | 1141 | 1144 | 1147 | rVV | 160288 | 207849 | 7.36% | 0.656% |
| 76 | 15.419 | 1147 | 1149 | 1159 | rVB | 495577 | 716056 | 25.34% | 2.260% |
| 77 | 15.637 | 1166 | 1168 | 1170 | rVB2 | 34400 | 46069 | 1.63% | 0.145% |
| 78 | 15.911 | 1190 | 1192 | 1199 | rBV4 | 41561 | 114891 | 4.07% | 0.363% |
| 79 | 16.802 | 1268 | 1270 | 1274 | rVB2 | 57724 | 117278 | 4.15% | 0.370% |
| 80 | 17.225 | 1304 | 1307 | 1314 | rVB | 54438 | 125312 | 4.43% | 0.396% |

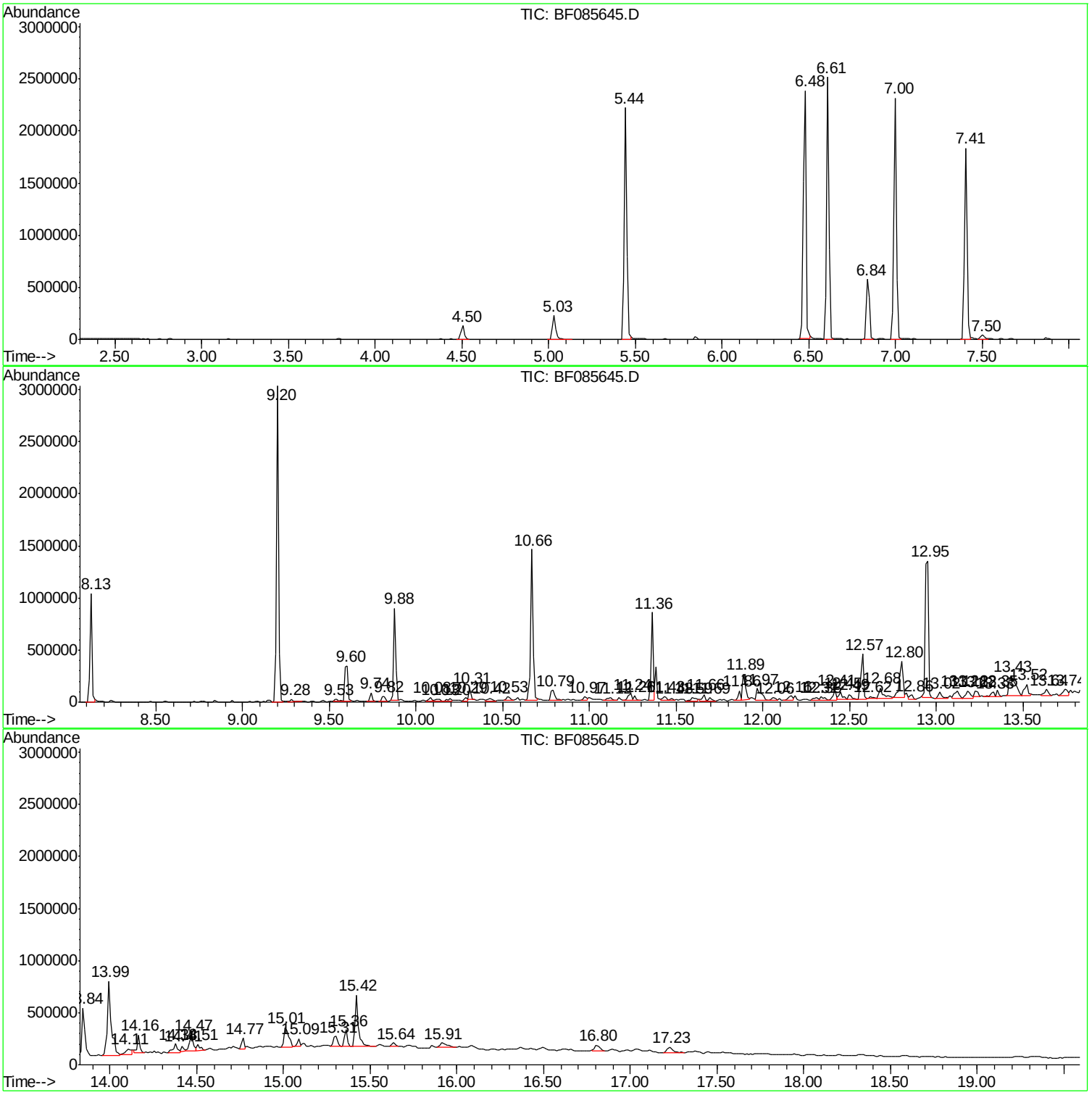
Sum of corrected areas: 31680076

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.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\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

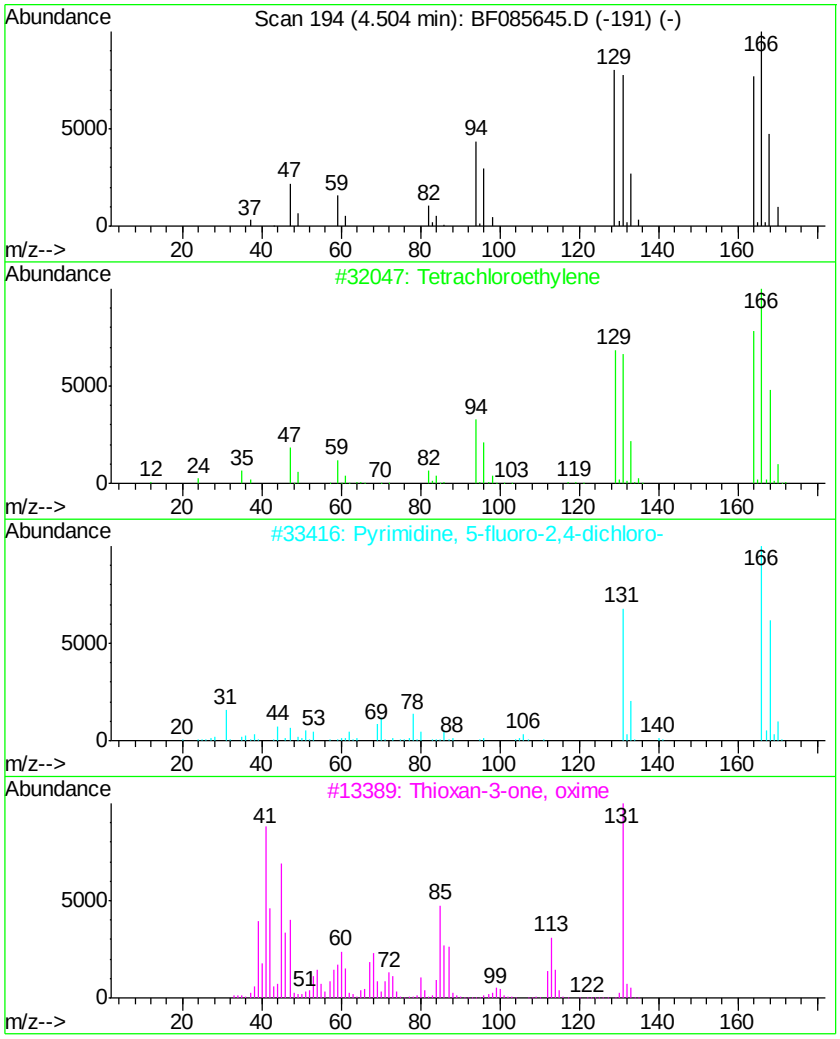
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

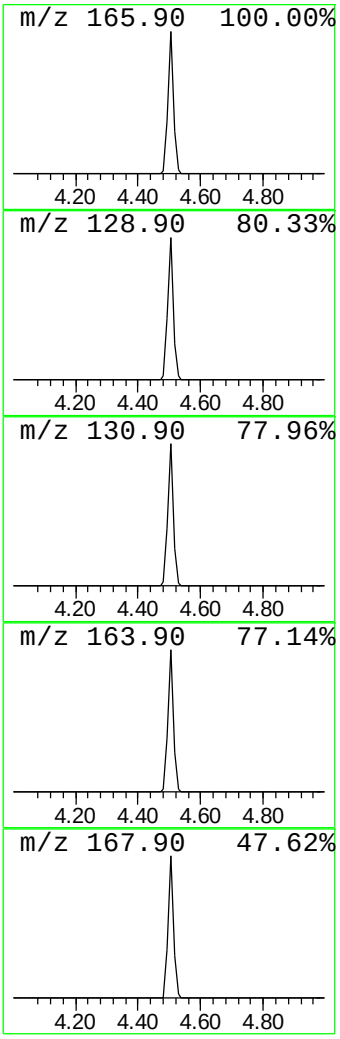
**********

Peak Number 1 Tetrachloroethylene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.50 | 4.40 ng | 150536 | 1,4-Dichlorobenzene-d4 | 6.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetrachloroethylene | 164 | C2Cl4 | 000127-18-4 | 98 |
| 2 | Pyrimidine, 5-fluoro-2,4-dichloro- | 166 | C4HCl2FN2 | 002927-71-1 | 25 |
| 3 | Thioxan-3-one, oxime | 131 | C5H9NOS | 058230-51-6 | 10 |
| 4 | Quinazoline, 4-chloro- | 164 | C8H5ClN2 | 005190-68-1 | 9 |
| 5 | 2-Chloroquinoxaline | 164 | C8H5ClN2 | 001448-87-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

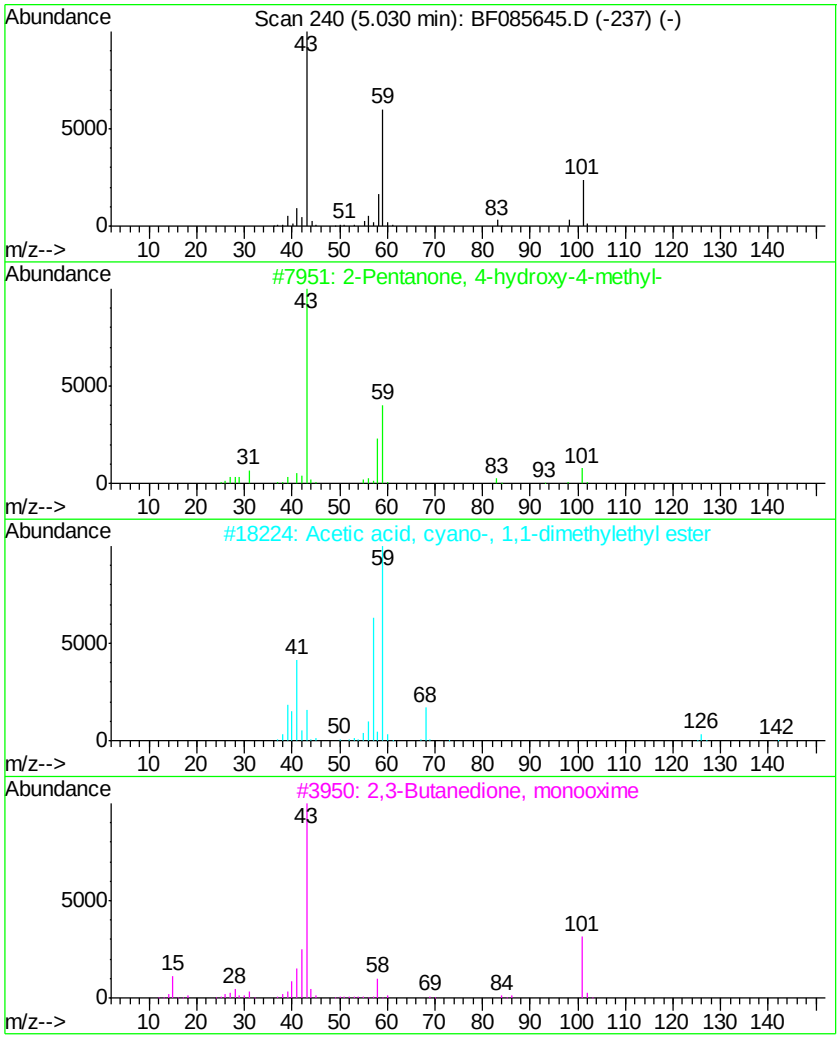
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

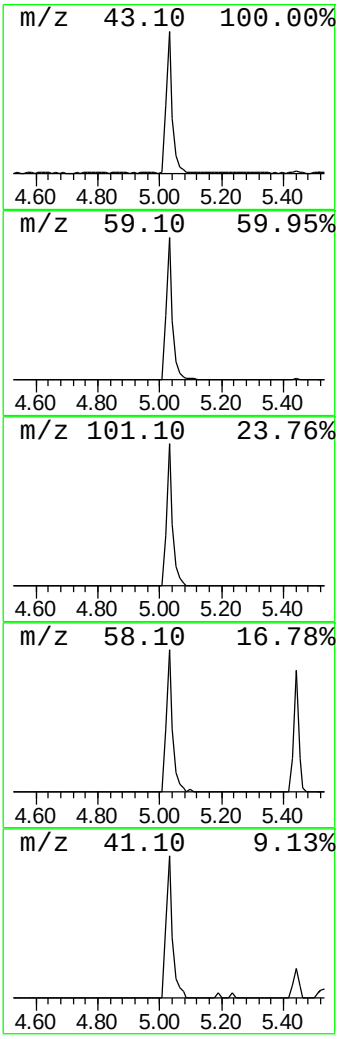
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.03 | 9.44 ng | 322826 | 1,4-Dichlorobenzene-d4 | 6.84 |

| 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 | 23 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

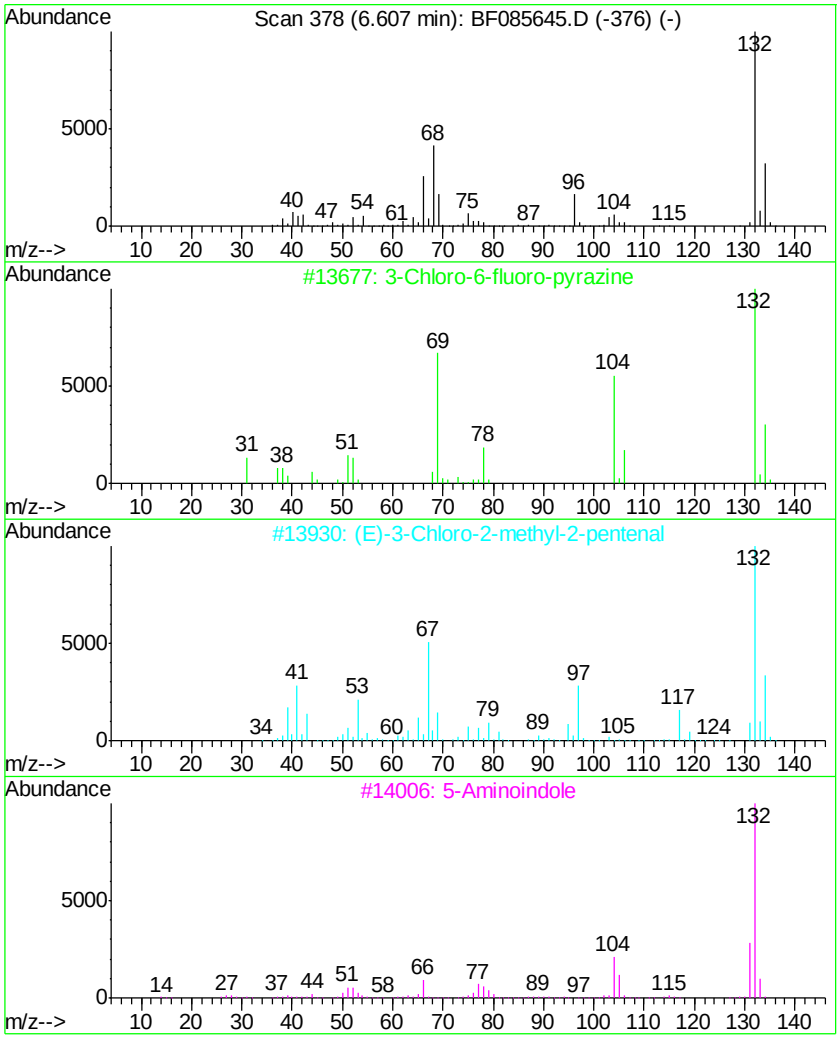
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

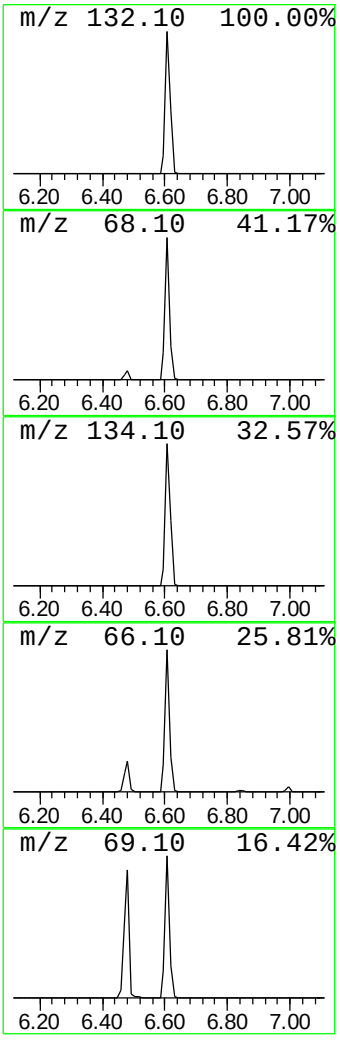
**********

Peak Number 3 unknown6.61 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.61 | 75.97 ng | 2598740 | 1,4-Dichlorobenzene-d4 | 6.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

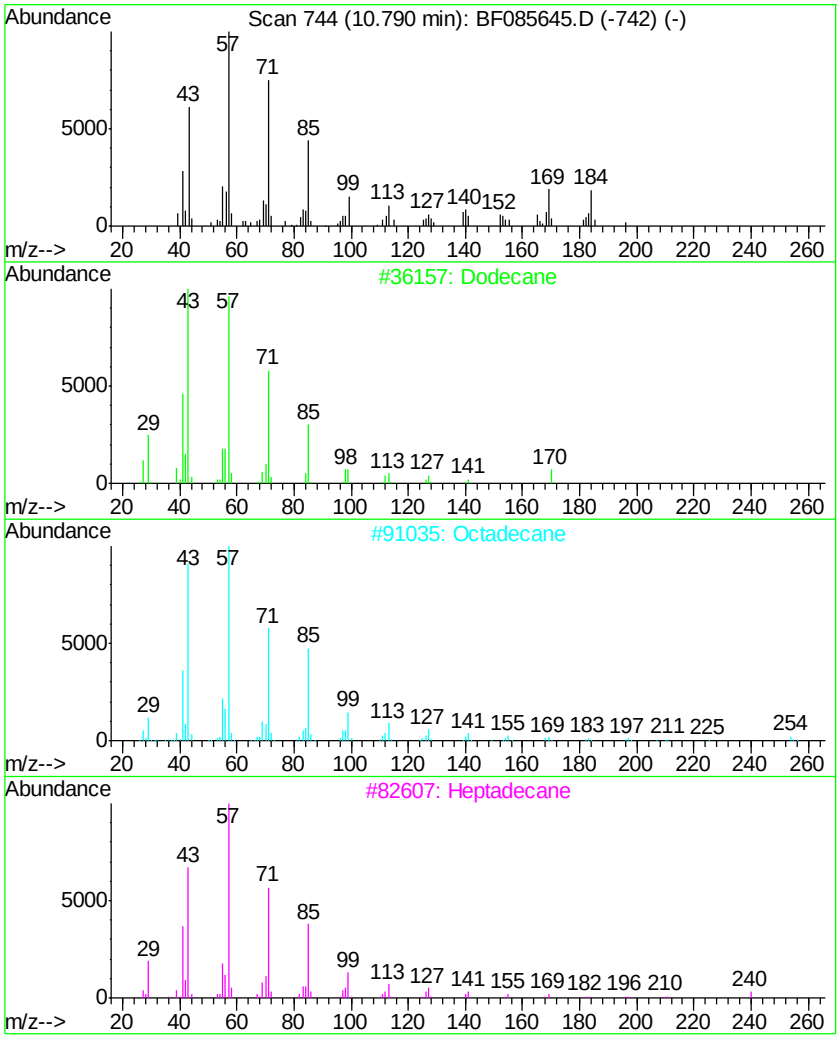
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

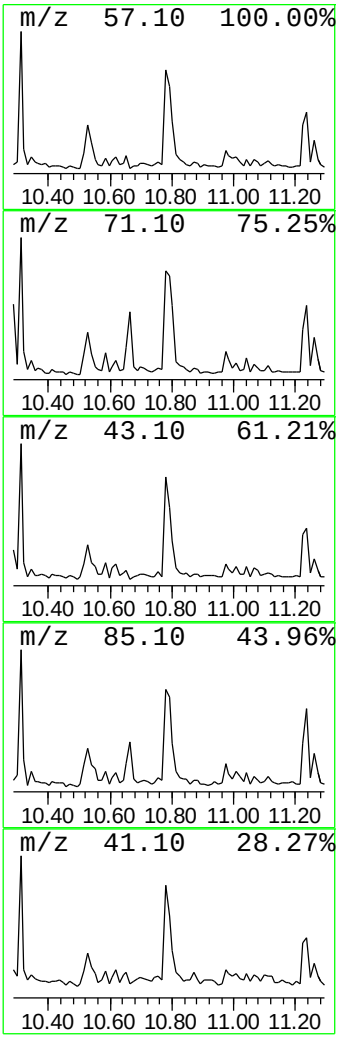
**********

Peak Number 5 Dodecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.79 | 4.57 ng | 174041 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 87 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 83 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 80 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 80 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

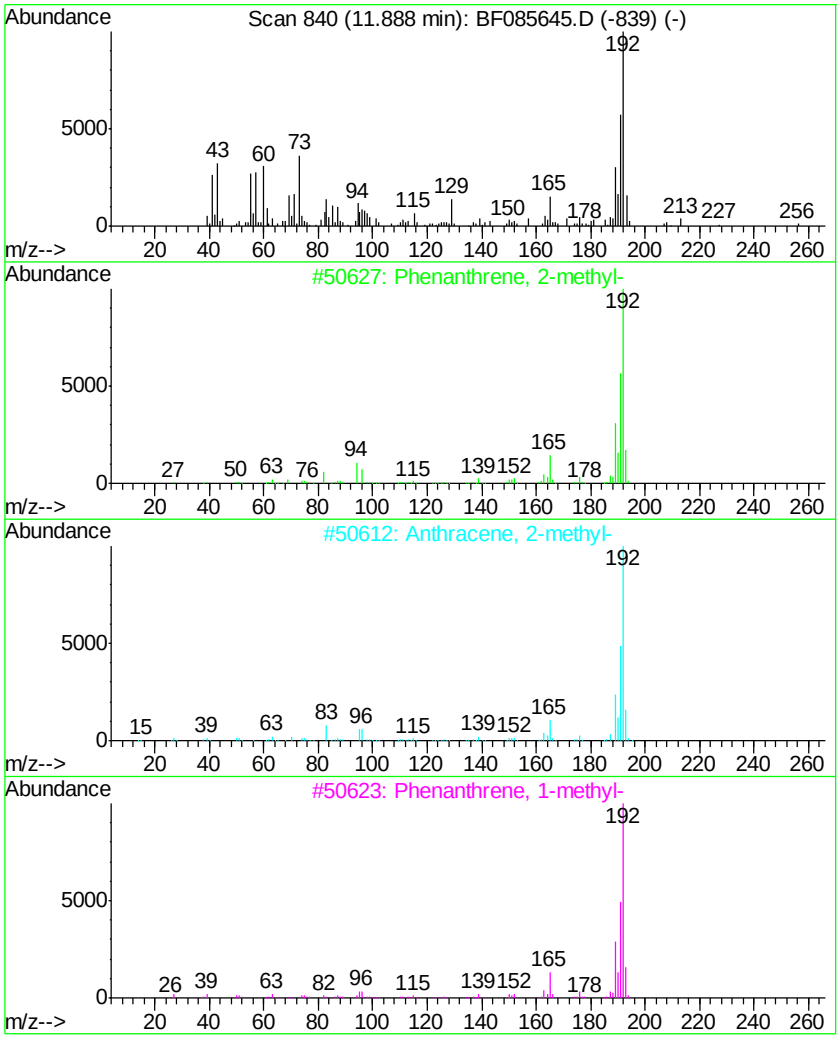
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

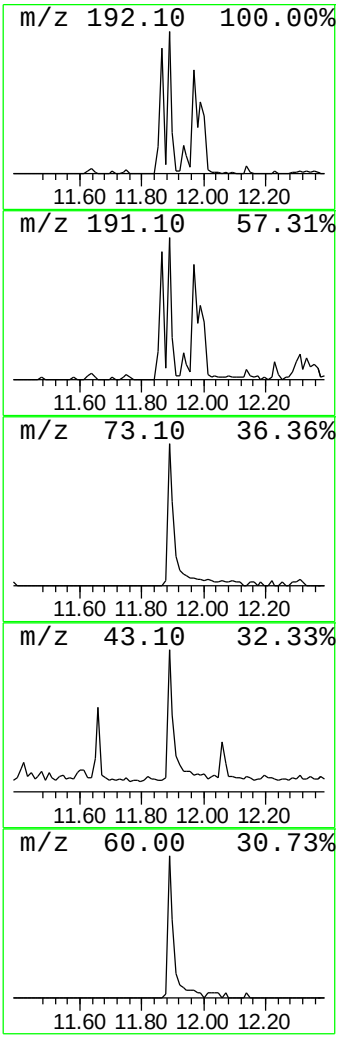
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.89 | 7.03 ng | 267543 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 97 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 93 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

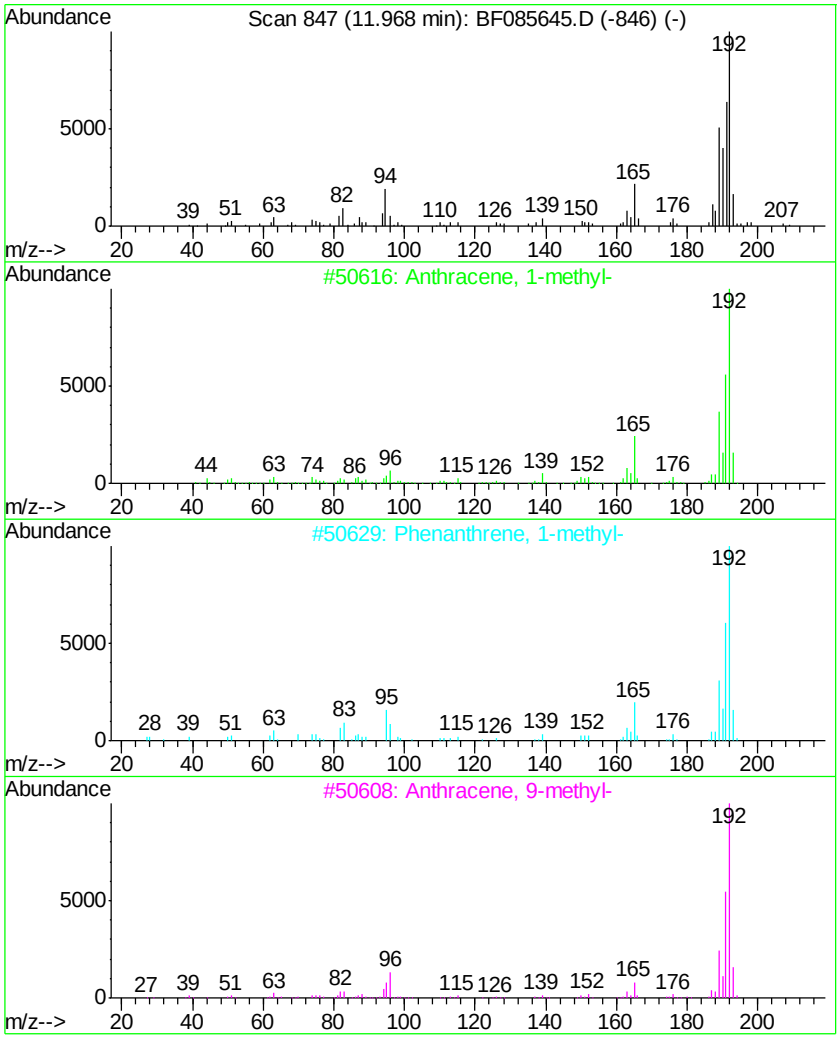
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

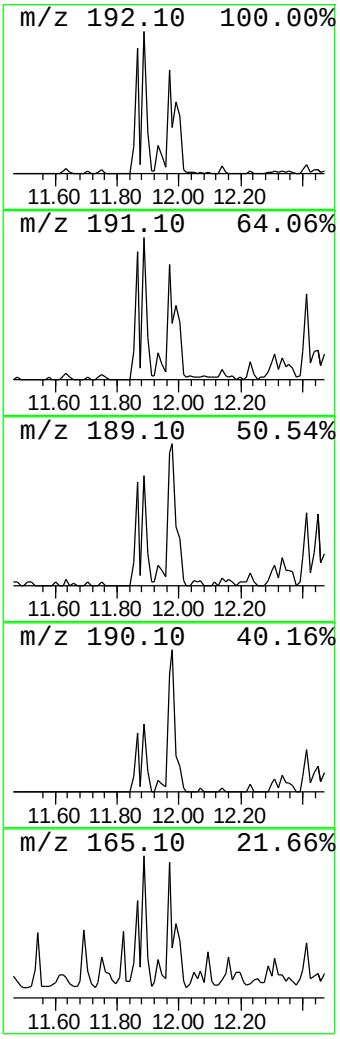
**********

Peak Number 7 Anthracene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.97 | 5.45 ng | 207709 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 78 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 78 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 60 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 60 |



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.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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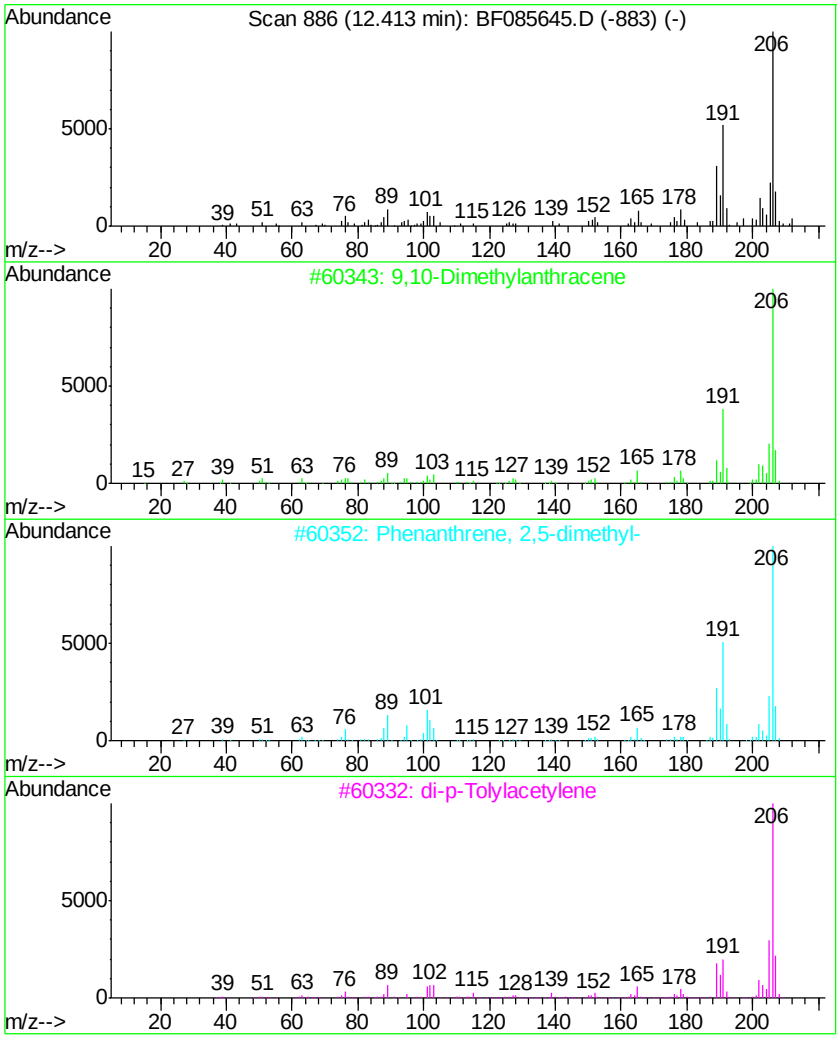
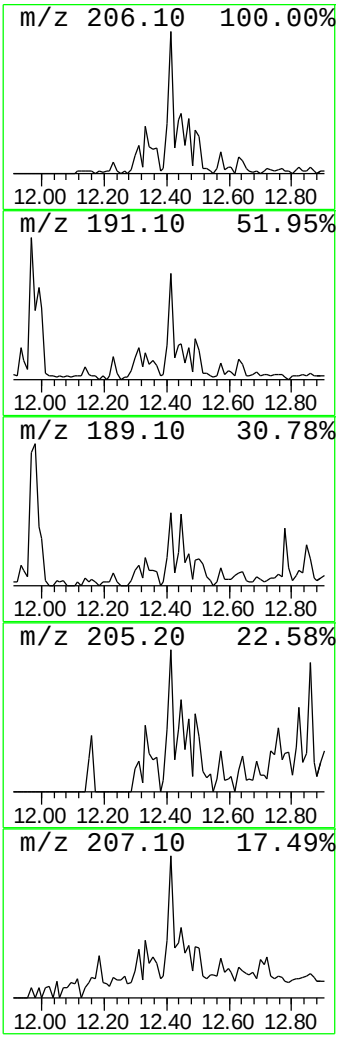
Peak Number 8 9,10-Dimethylanthracene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.41 | 3.13 ng | 119045 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 97 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 3 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 5 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 90 |



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

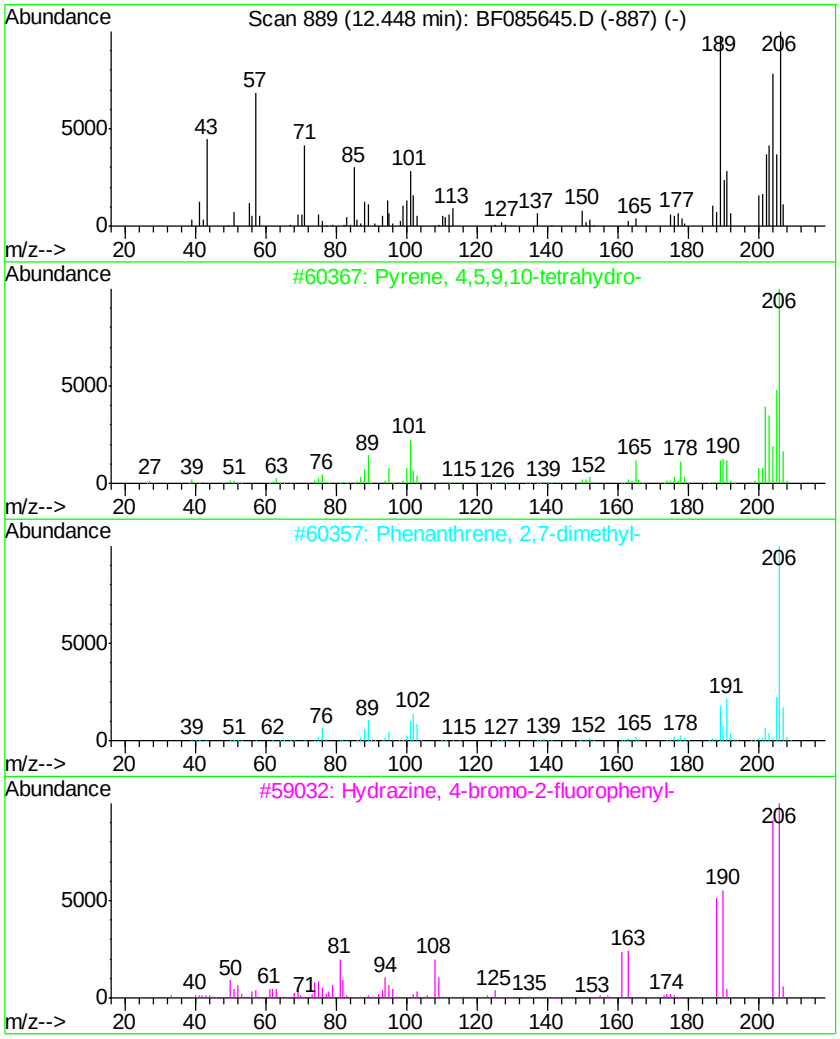
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

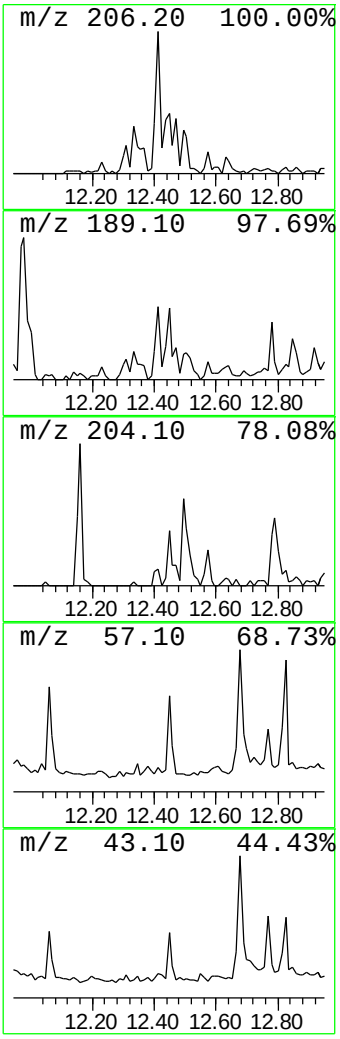
**********

Peak Number 9 unknown12.45 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 2.80 ng | 106557 | Phenanthrene-d10 | 11.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 38 |
| 2 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 38 |
| 3 | Hydrazine, 4-bromo-2-fluorophenyl- | 204 | C6H6BrFN2 | 299440-17-8 | 35 |
| 4 | 4-(Trifluoromethoxy)benzoic acid | 206 | C8H5F3O3 | 000330-12-1 | 30 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 27 |



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

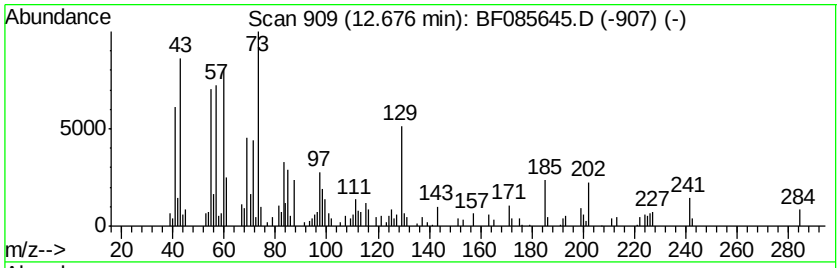
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

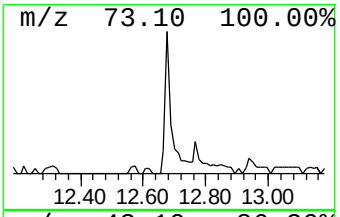
**********

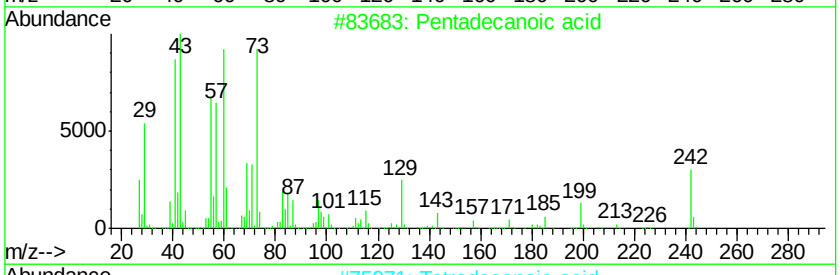
Peak Number 10 Pentadecanoic acid Concentration Rank 7

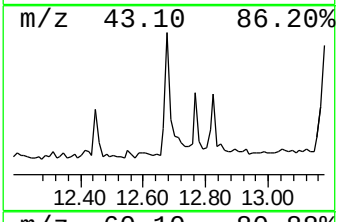
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.68 | 5.72 ng | 217929 | Phenanthrene-d10 | 11.36 |

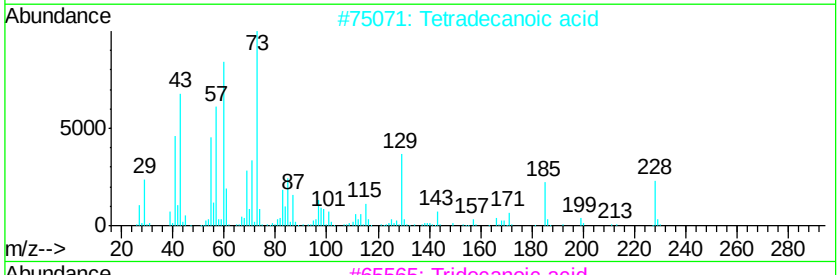
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 74 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 72 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 70 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 60 |

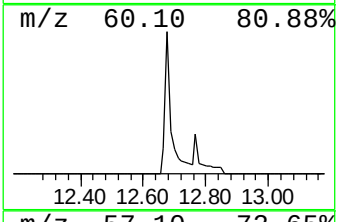


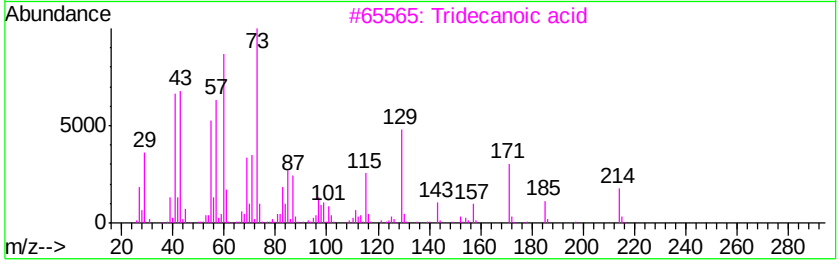



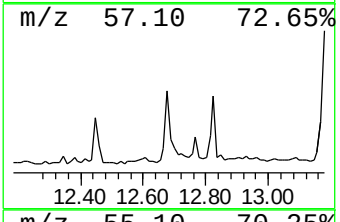



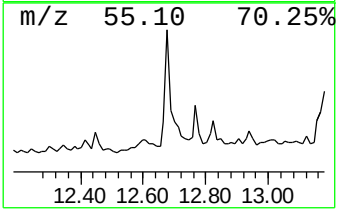



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

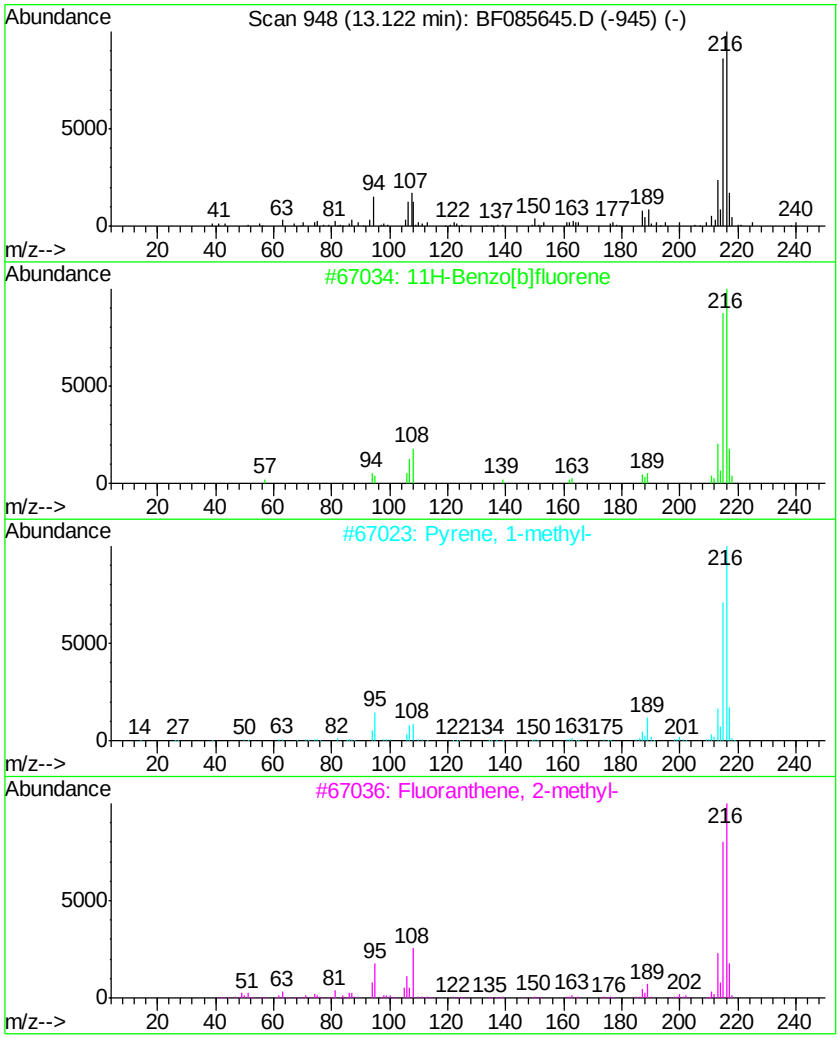
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

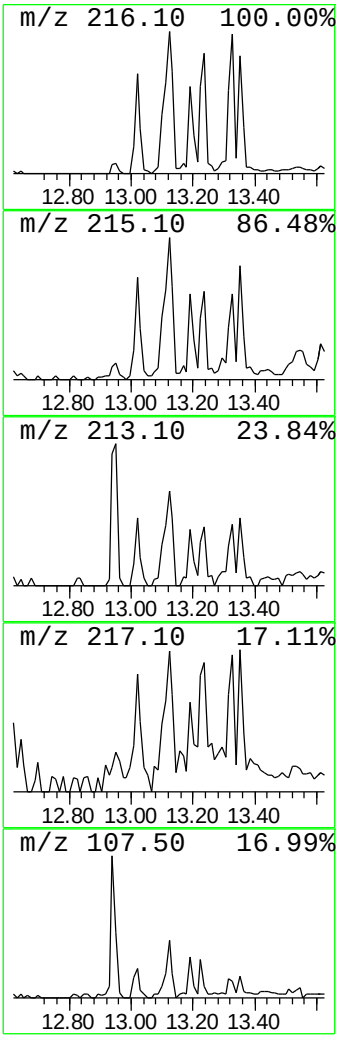
**********

Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.12 | 2.54 ng | 146945 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 76 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

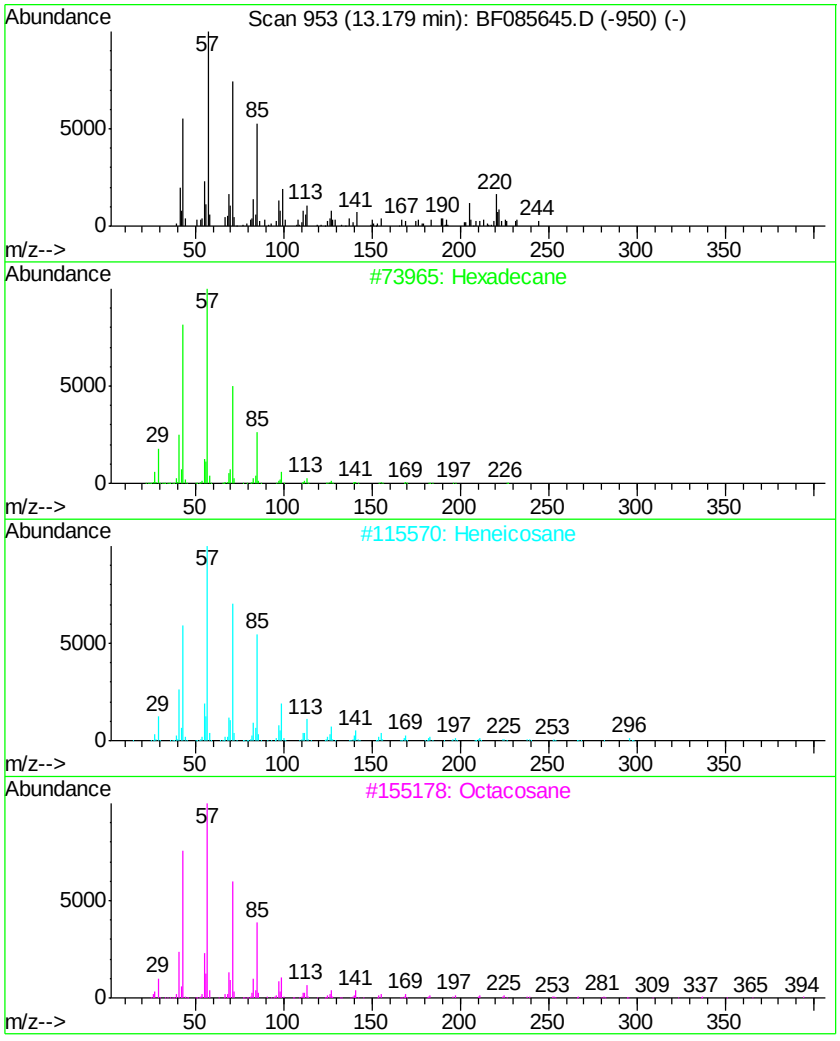
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

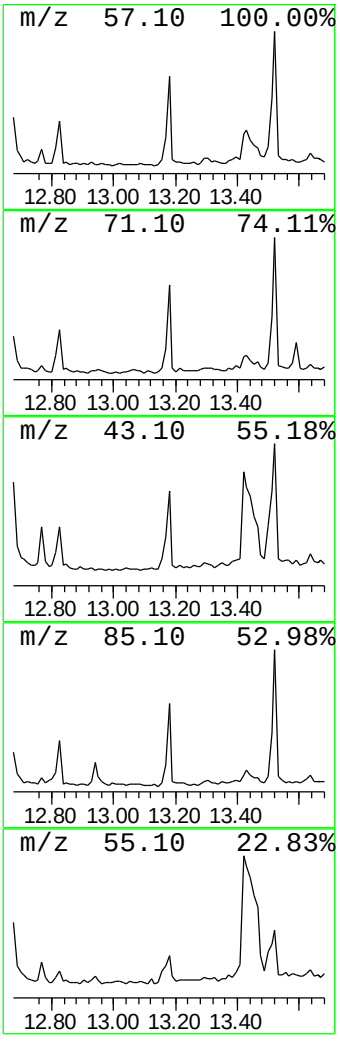
**********

Peak Number 12 Hexadecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.18 | 2.77 ng | 160379 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 87 |
| 4 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 83 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 83 |



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

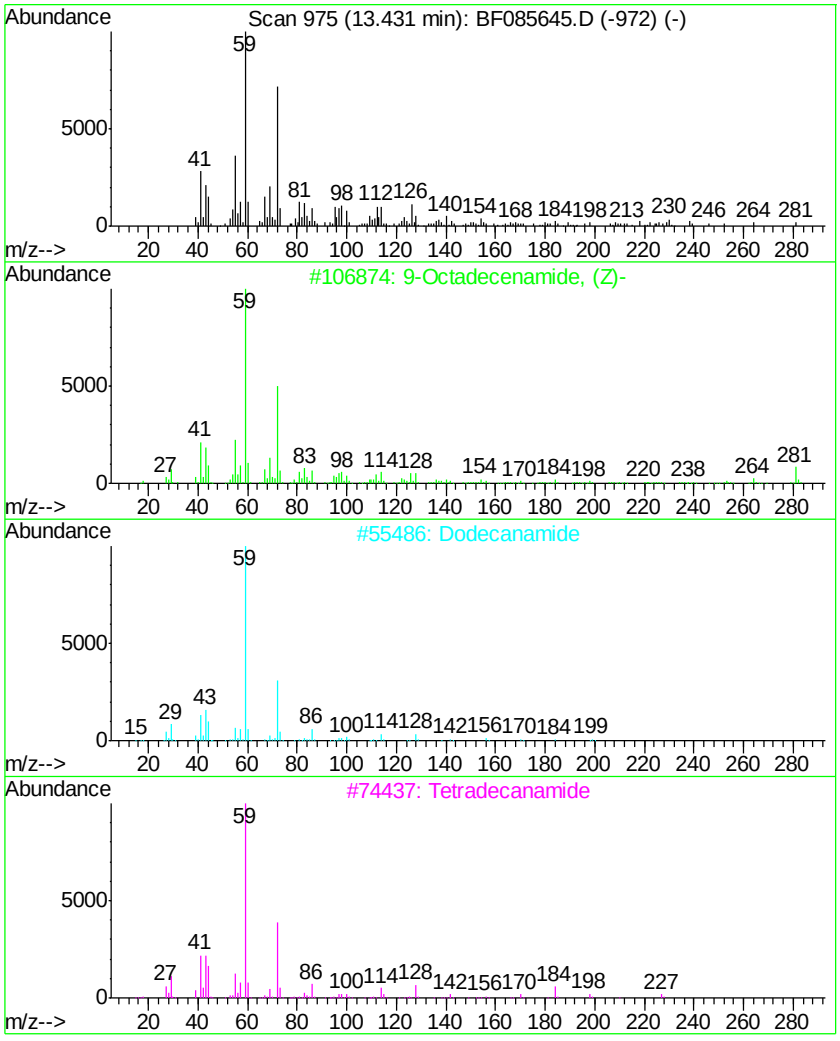
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

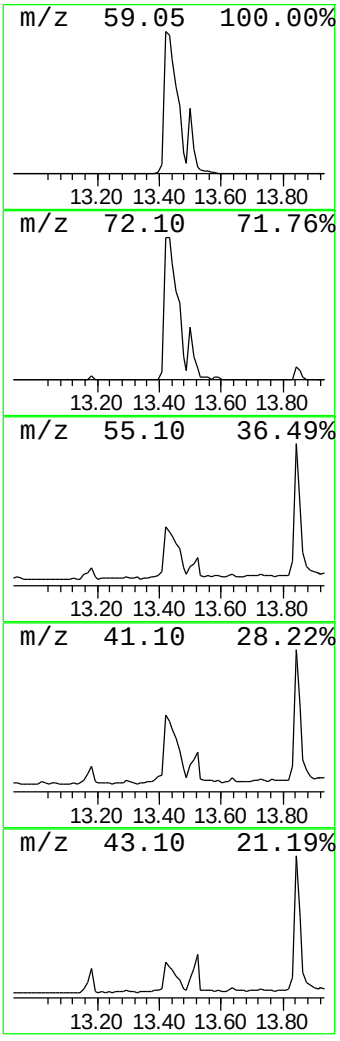
**********

Peak Number 13 9-Octadecenamide, (Z)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.43 | 8.67 ng | 501481 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 91 |
| 2 | Dodecanamide | 199 | C12H25NO | 001120-16-7 | 53 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 49 |
| 4 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 47 |
| 5 | 2-Methyl-tridecane-2,12-diol | 230 | C14H30O2 | 1000187-03-5 | 38 |



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Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

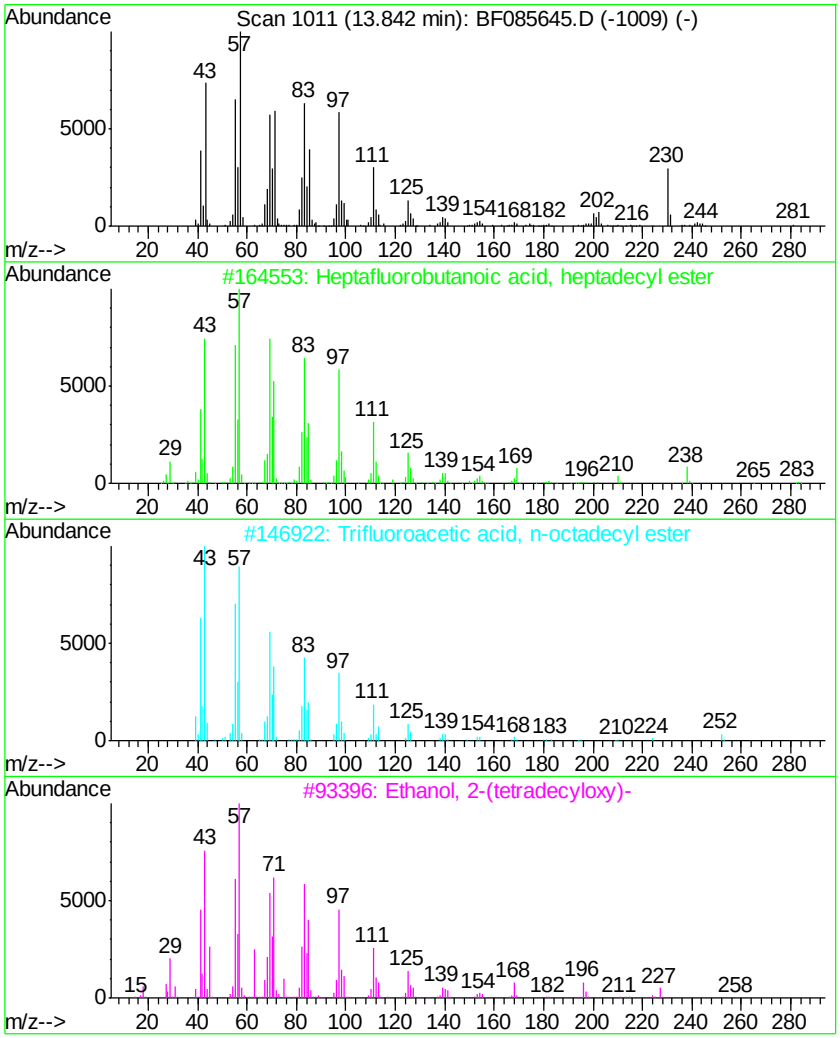
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

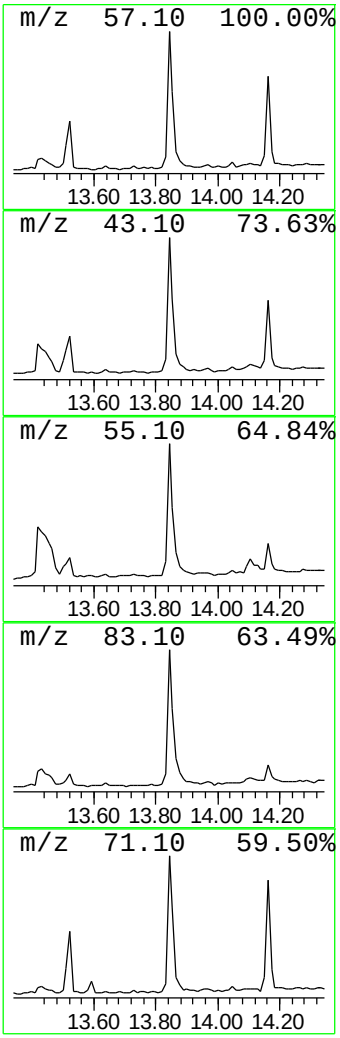
**********

Peak Number 15 Heptafluorobutanoic acid, h... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.84 | 10.14 ng | 586809 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 86 |
| 2 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 81 |
| 3 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 81 |
| 4 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 81 |
| 5 | 1-Hexadecanesulfonyl chloride | 324 | C16H33ClO2S | 038775-38-1 | 74 |



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Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

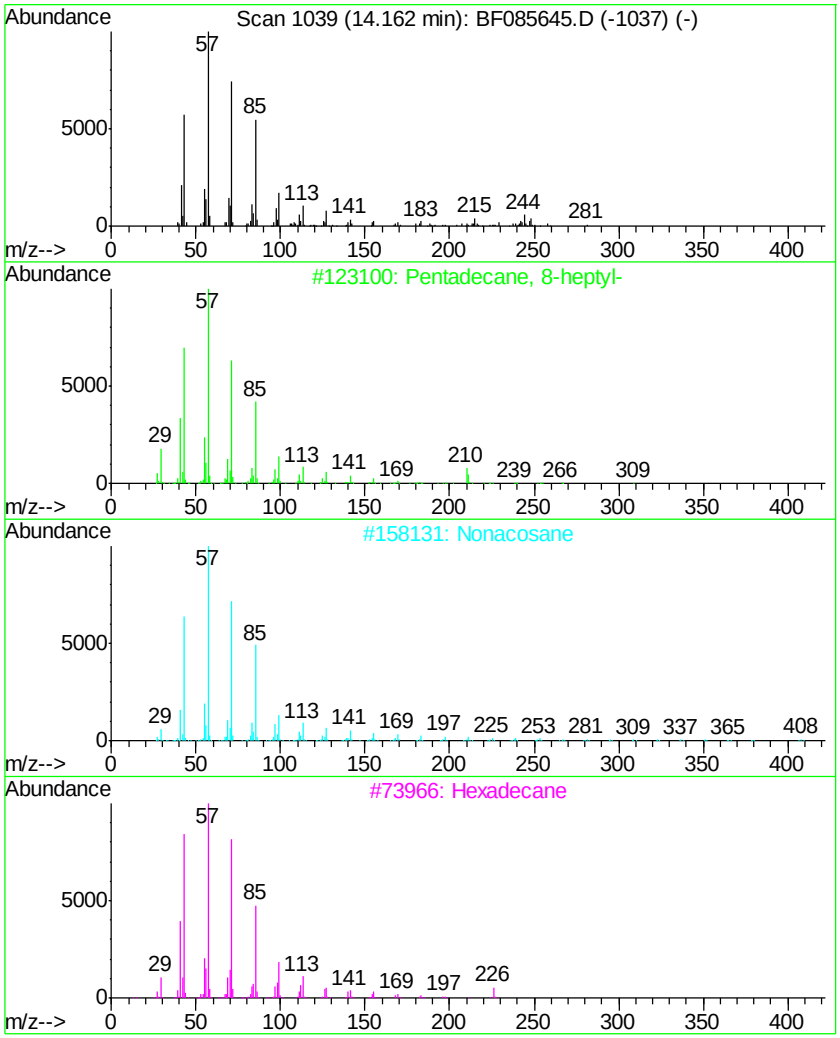
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

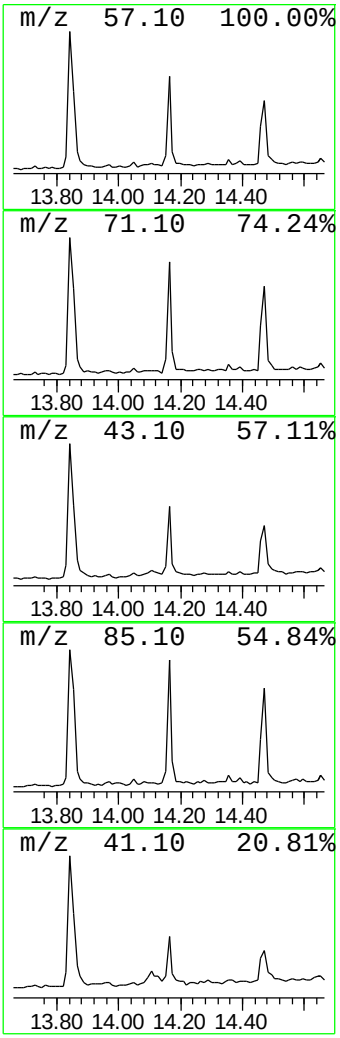
**********

Peak Number 16 Pentadecane, 8-heptyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.16 | 3.11 ng | 179691 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 87 |
| 2 | Nonacosane | 408 | C29H60 | 000630-03-5 | 86 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 4 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 80 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 74 |



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Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

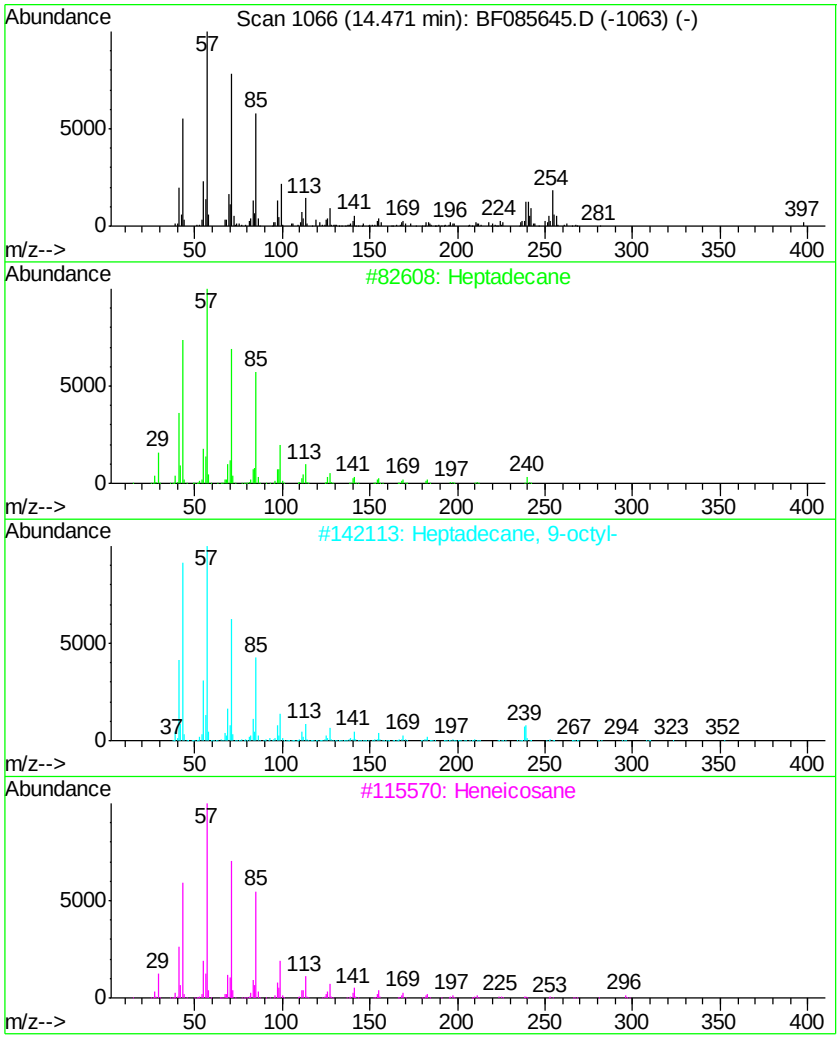
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

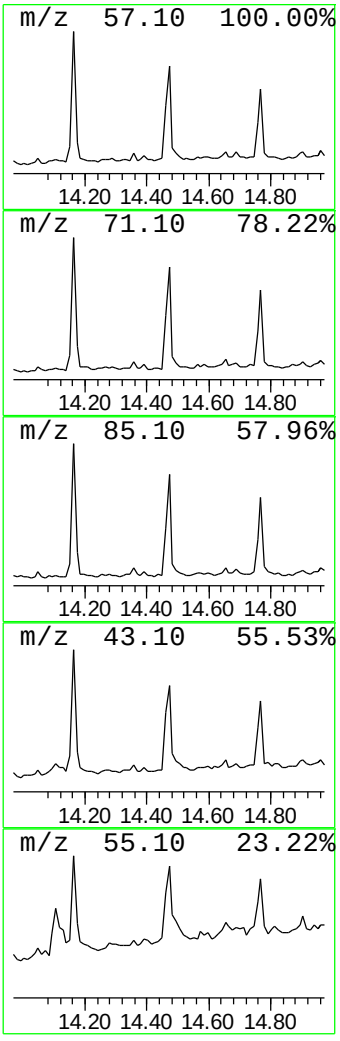
**********

Peak Number 17 Heptadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.47 | 4.02 ng | 232839 | Chrysene-d12 | 13.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 81 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 76 |
| 4 | Nonadecane, 2-methyl- | 282 | C20H42 | 001560-86-7 | 74 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 70 |



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Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

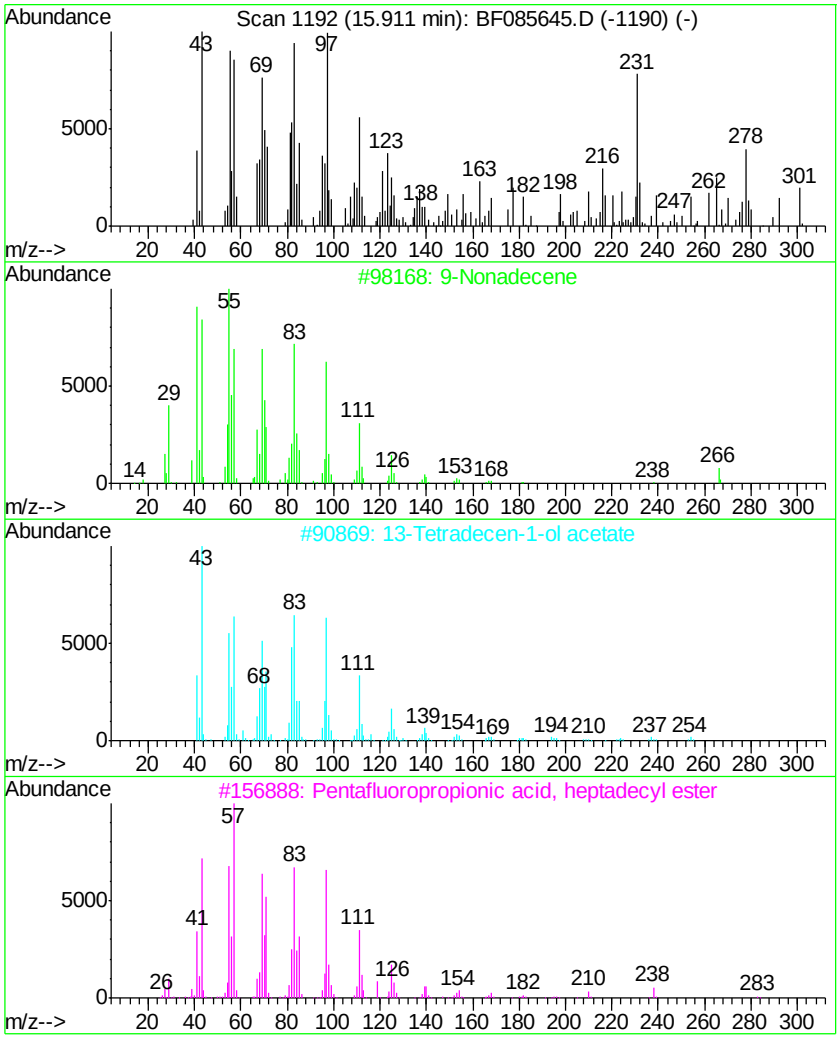
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

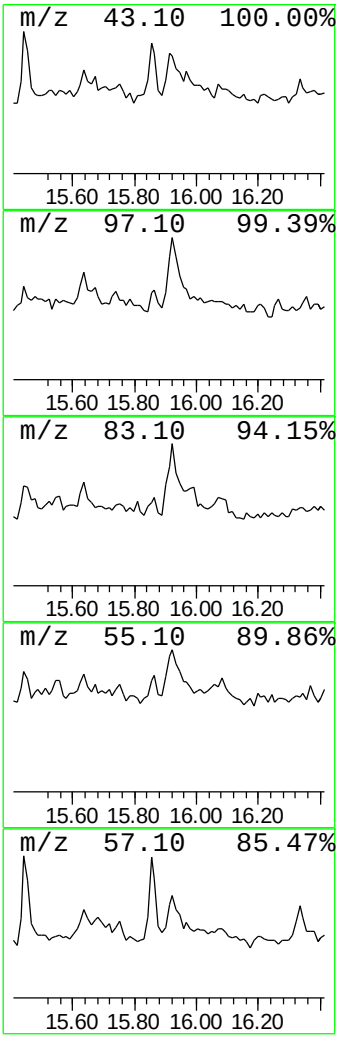
**********

Peak Number 20 9-Nonadecene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.91 | 3.21 ng | 114891 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Nonadecene | 266 | C19H38 | 031035-07-1 | 58 |
| 2 | 13-Tetradecen-1-ol acetate | 254 | C16H30O2 | 056221-91-1 | 50 |
| 3 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 43 |
| 4 | Bromoacetic acid, pentadecyl ester | 348 | C17H33BrO2 | 131143-01-6 | 43 |
| 5 | 1-Eicosene | 280 | C20H40 | 003452-07-1 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085645.D
Acq On : 22 Mar 2016 4:21
Operator : UM/SJ
Sample : H1840-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PJ-SB-11-1.5-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.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 |
| Tetrachloroethylene | 4.50 | 4.4 | ng | 150536 | 1 | 6.84 | 684185 | 20.0 |
| 2-Pentanone, 4-hy... | 5.03 | 9.4 | ng | 322826 | 1 | 6.84 | 684185 | 20.0 |
| unknown6.61 | 6.61 | 76.0 | ng | 2598740 | 1 | 6.84 | 684185 | 20.0 |
| Dodecane | 10.79 | 4.6 | ng | 174041 | 4 | 11.36 | 761674 | 20.0 |
| Phenanthrene, 2-m... | 11.89 | 7.0 | ng | 267543 | 4 | 11.36 | 761674 | 20.0 |
| Anthracene, 1-met... | 11.97 | 5.5 | ng | 207709 | 4 | 11.36 | 761674 | 20.0 |
| 9,10-Dimethylanth... | 12.41 | 3.1 | ng | 119045 | 4 | 11.36 | 761674 | 20.0 |
| unknown12.45 | 12.45 | 2.8 | ng | 106557 | 4 | 11.36 | 761674 | 20.0 |
| Pentadecanoic acid | 12.68 | 5.7 | ng | 217929 | 4 | 11.36 | 761674 | 20.0 |
| 11H-Benzo[b]fluorene | 13.12 | 2.5 | ng | 146945 | 5 | 13.99 | 1157070 | 20.0 |
| Hexadecane | 13.18 | 2.8 | ng | 160379 | 5 | 13.99 | 1157070 | 20.0 |
| 9-Octadecenamide,... | 13.43 | 8.7 | ng | 501481 | 5 | 13.99 | 1157070 | 20.0 |
| Heptafluorobutano... | 13.84 | 10.1 | ng | 586809 | 5 | 13.99 | 1157070 | 20.0 |
| Pentadecane, 8-he... | 14.16 | 3.1 | ng | 179691 | 5 | 13.99 | 1157070 | 20.0 |
| Heptadecane | 14.47 | 4.0 | ng | 232839 | 5 | 13.99 | 1157070 | 20.0 |
| 9-Nonadecene | 15.91 | 3.2 | ng | 114891 | 6 | 15.42 | 716056 | 20.0 |