LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.678 | 6 | 8 | 16 | rVB | 26873 | 68749 | 4.76% | 0.509% |
| 2 | 1.793 | 16 | 18 | 23 | rBV | 566149 | 707319 | 48.99% | 5.235% |
| 3 | 2.844 | 107 | 110 | 122 | rVB | 12206 | 29787 | 2.06% | 0.220% |
| 4 | 4.844 | 283 | 285 | 290 | rBB | 108406 | 159776 | 11.07% | 1.183% |
| 5 | 5.301 | 322 | 325 | 327 | rBV | 1242394 | 1400419 | 96.99% | 10.365% |
| 6 | 6.353 | 414 | 417 | 420 | rVB | 1198778 | 1204060 | 83.39% | 8.912% |
| 7 | 6.479 | 425 | 428 | 430 | rBV | 1175583 | 1443926 | 100.00% | 10.687% |
| 8 | 6.707 | 446 | 448 | 449 | rBV | 353350 | 372967 | 25.83% | 2.761% |
| 9 | 6.856 | 459 | 461 | 464 | rVB | 881047 | 976751 | 67.65% | 7.230% |
| 10 | 7.267 | 494 | 497 | 500 | rBV | 788979 | 766809 | 53.11% | 5.676% |
| 11 | 7.987 | 558 | 560 | 563 | rVB | 558751 | 483462 | 33.48% | 3.578% |
| 12 | 8.696 | 621 | 622 | 624 | rVB | 17700 | 21352 | 1.48% | 0.158% |
| 13 | 9.073 | 652 | 655 | 657 | rBV | 1201662 | 1441013 | 99.80% | 10.666% |
| 14 | 9.462 | 687 | 689 | 691 | rVV | 192879 | 155975 | 10.80% | 1.154% |
| 15 | 9.553 | 695 | 697 | 699 | rVV | 14492 | 23954 | 1.66% | 0.177% |
| 16 | 9.736 | 711 | 713 | 716 | rVV | 494646 | 444300 | 30.77% | 3.289% |
| 17 | 10.525 | 780 | 782 | 784 | rBV | 740157 | 682381 | 47.26% | 5.051% |
| 18 | 10.651 | 792 | 793 | 797 | rBV2 | 20960 | 39089 | 2.71% | 0.289% |
| 19 | 10.856 | 807 | 811 | 814 | rBV3 | 7713 | 17709 | 1.23% | 0.131% |
| 20 | 10.971 | 817 | 821 | 824 | rBV | 76803 | 122811 | 8.51% | 0.909% |
| 21 | 11.096 | 831 | 832 | 834 | rBV | 25516 | 35210 | 2.44% | 0.261% |
| 22 | 11.211 | 840 | 842 | 846 | rVB | 355265 | 364387 | 25.24% | 2.697% |
| 23 | 11.451 | 861 | 863 | 865 | rBV2 | 14933 | 19038 | 1.32% | 0.141% |
| 24 | 11.531 | 868 | 870 | 875 | rVB2 | 16785 | 28632 | 1.98% | 0.212% |
| 25 | 11.714 | 884 | 886 | 887 | rBV | 19227 | 17055 | 1.18% | 0.126% |
| 26 | 11.759 | 887 | 890 | 891 | rBV2 | 26465 | 43577 | 3.02% | 0.323% |
| 27 | 11.816 | 891 | 895 | 900 | rVB2 | 50250 | 94299 | 6.53% | 0.698% |
| 28 | 11.931 | 903 | 905 | 910 | rBV2 | 10912 | 18511 | 1.28% | 0.137% |
| 29 | 12.011 | 910 | 912 | 916 | rBV3 | 13962 | 33853 | 2.34% | 0.251% |
| 30 | 12.159 | 922 | 925 | 926 | rBV2 | 16030 | 22573 | 1.56% | 0.167% |
| 31 | 12.216 | 926 | 930 | 931 | rVV2 | 12561 | 23056 | 1.60% | 0.171% |
| 32 | 12.262 | 932 | 934 | 936 | rVV | 27668 | 35414 | 2.45% | 0.262% |
| 33 | 12.319 | 938 | 939 | 940 | rVB | 20449 | 14850 | 1.03% | 0.110% |
| 34 | 12.422 | 946 | 948 | 950 | rBV | 18404 | 18982 | 1.31% | 0.140% |

LSC Area Percent Report

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Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.548 | 957 | 959 | 961 | rBV3 | 12550 | 17840 | 1.24% | 0.132% |
| 36 | 12.639 | 965 | 967 | 969 | rBV | 35528 | 45961 | 3.18% | 0.340% |
| 37 | 12.799 | 979 | 981 | 983 | rBV | 995601 | 901081 | 62.40% | 6.669% |
| 38 | 13.039 | 998 | 1002 | 1004 | rBV5 | 18099 | 45441 | 3.15% | 0.336% |
| 39 | 13.074 | 1004 | 1005 | 1007 | rVV | 33545 | 40257 | 2.79% | 0.298% |
| 40 | 13.165 | 1011 | 1013 | 1015 | rVV | 42361 | 48777 | 3.38% | 0.361% |
| 41 | 13.199 | 1015 | 1016 | 1017 | rVV | 29556 | 21645 | 1.50% | 0.160% |
| 42 | 13.474 | 1038 | 1040 | 1044 | rBV2 | 23781 | 42917 | 2.97% | 0.318% |
| 43 | 13.542 | 1044 | 1046 | 1048 | rBV | 32895 | 32509 | 2.25% | 0.241% |
| 44 | 13.577 | 1048 | 1049 | 1054 | rBV3 | 39374 | 69788 | 4.83% | 0.517% |
| 45 | 13.702 | 1058 | 1060 | 1063 | rVB2 | 69625 | 104023 | 7.20% | 0.770% |
| 46 | 13.839 | 1070 | 1072 | 1075 | rBV | 423430 | 431633 | 29.89% | 3.195% |
| 47 | 15.108 | 1181 | 1183 | 1185 | rVB | 80993 | 97093 | 6.72% | 0.719% |
| 48 | 15.222 | 1190 | 1193 | 1195 | rVV | 211394 | 279529 | 19.36% | 2.069% |

Sum of corrected areas: 13510540

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
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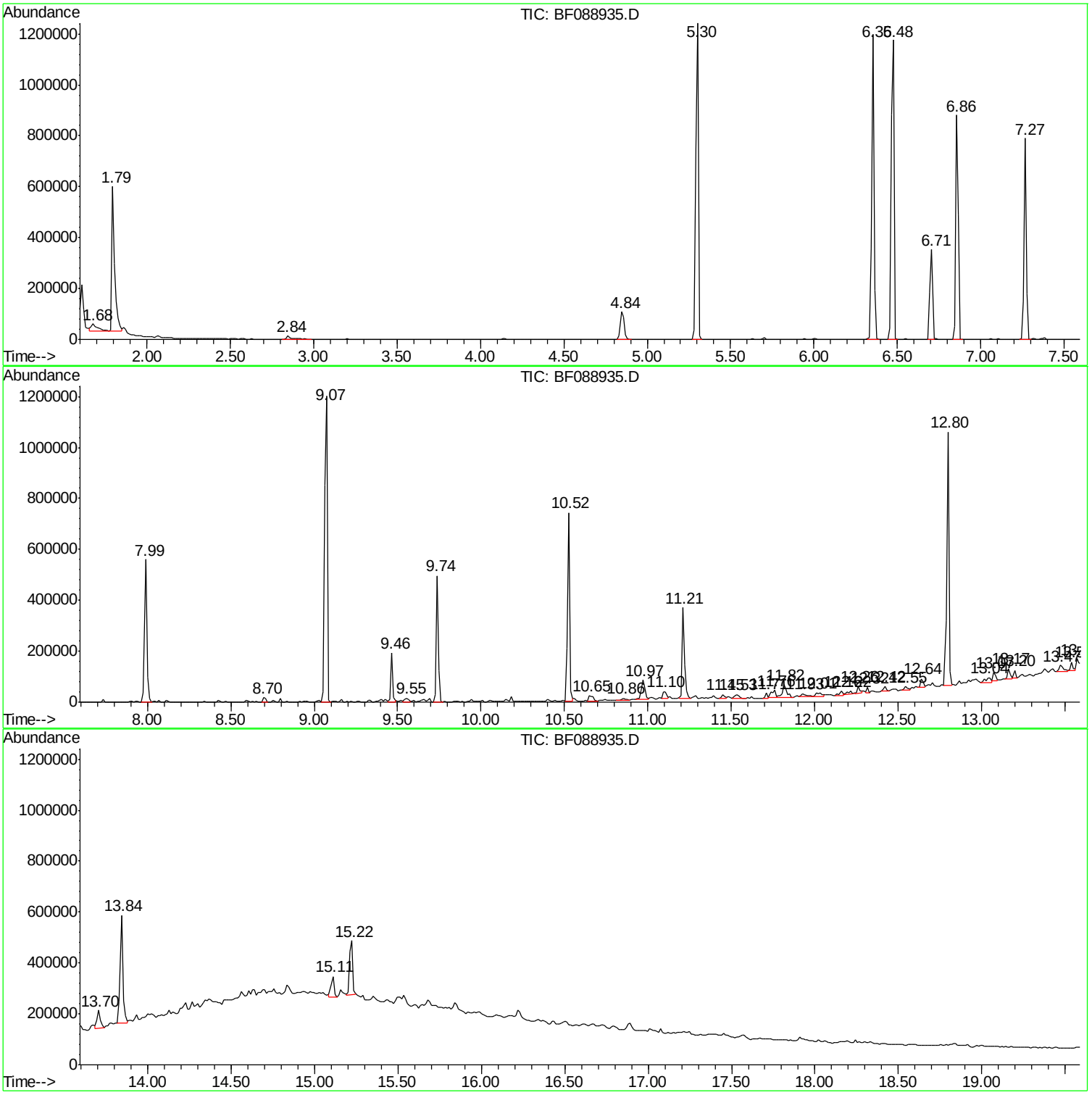
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

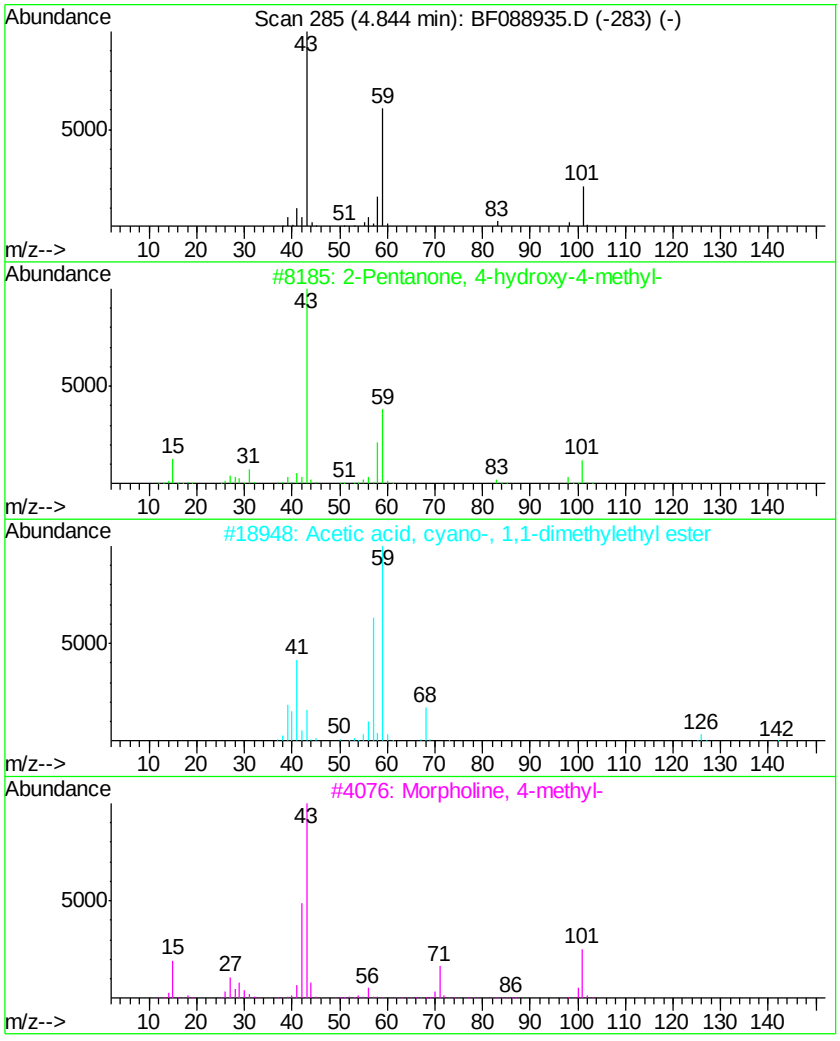
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

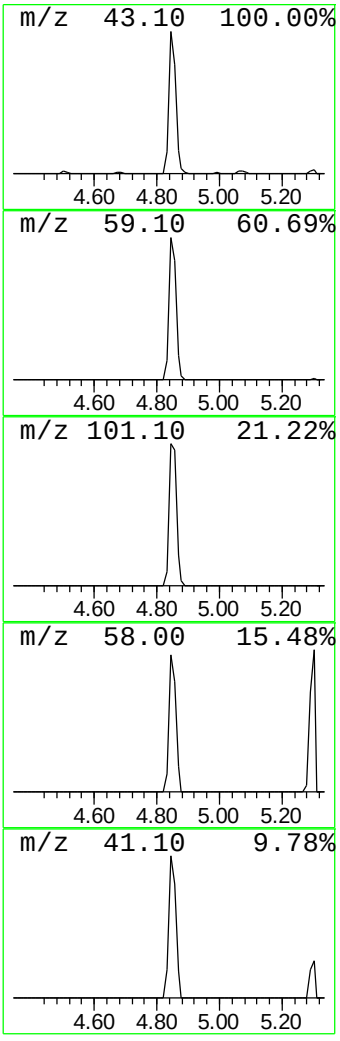
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.84 | 8.57 ng | 159776 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

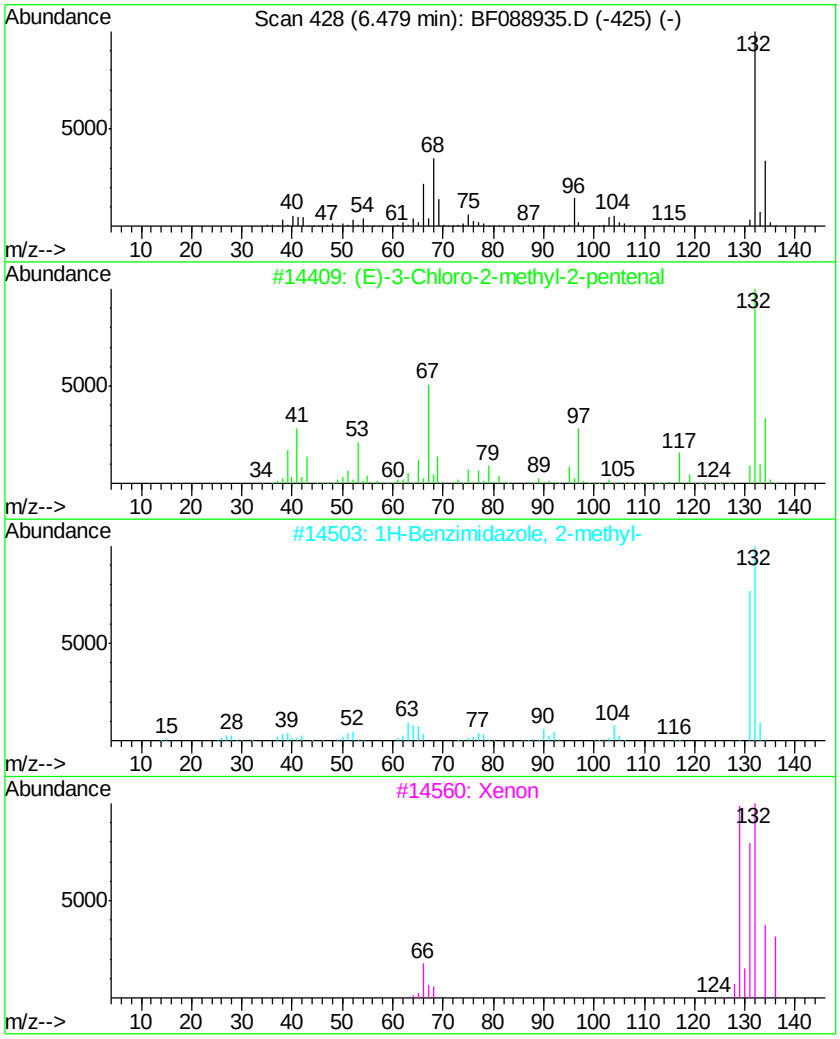
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

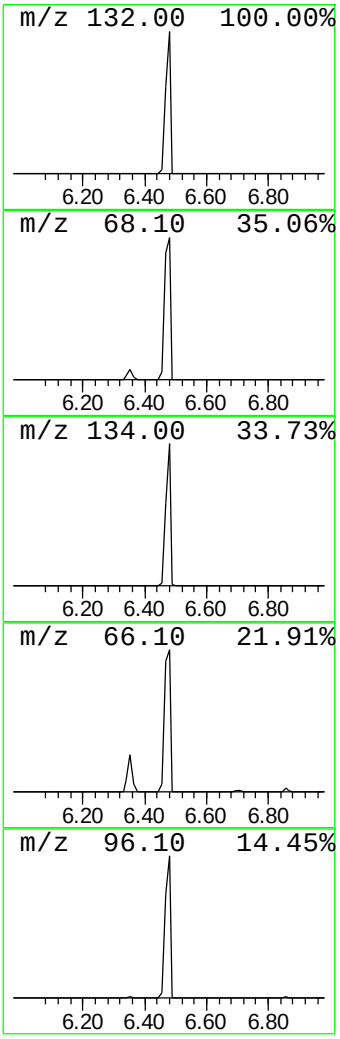
**********

Peak Number 4 unknown6.48 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.48 | 77.43 ng | 1443930 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 2 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 12 |
| 3 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 4 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

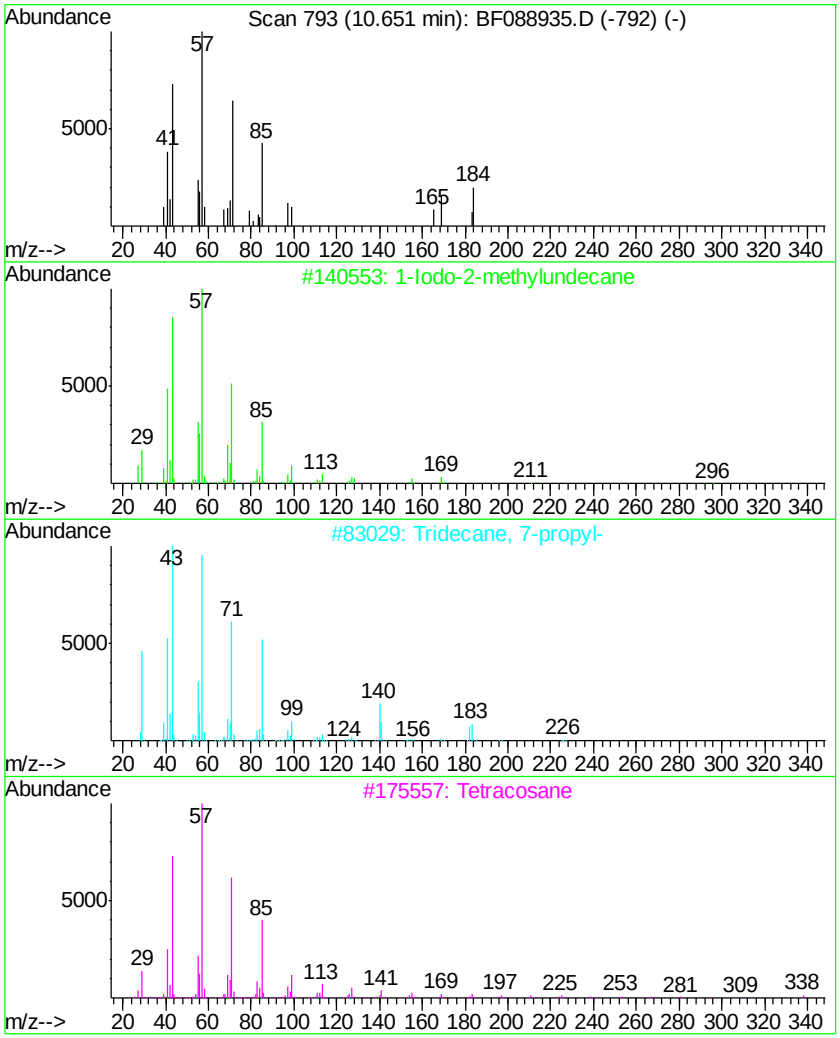
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

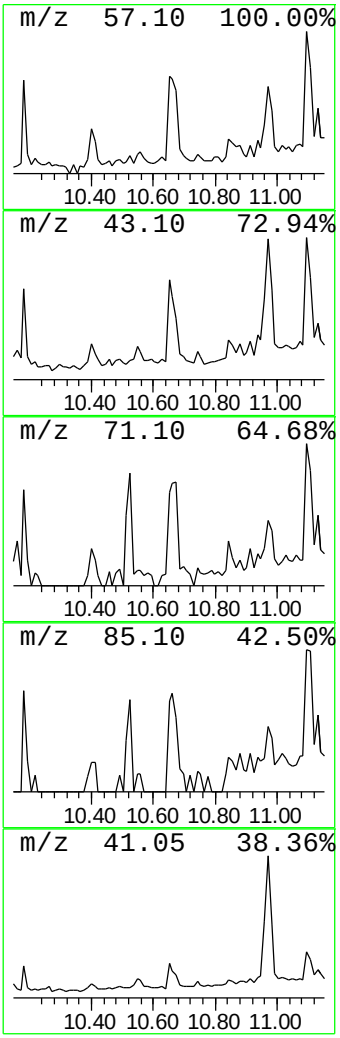
**********

Peak Number 6 1-Iodo-2-methylundecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.65 | 2.15 ng | 39089 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 59 |
| 2 | Tridecane, 7-propyl- | 226 | C16H34 | 055045-09-5 | 59 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 59 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 53 |
| 5 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

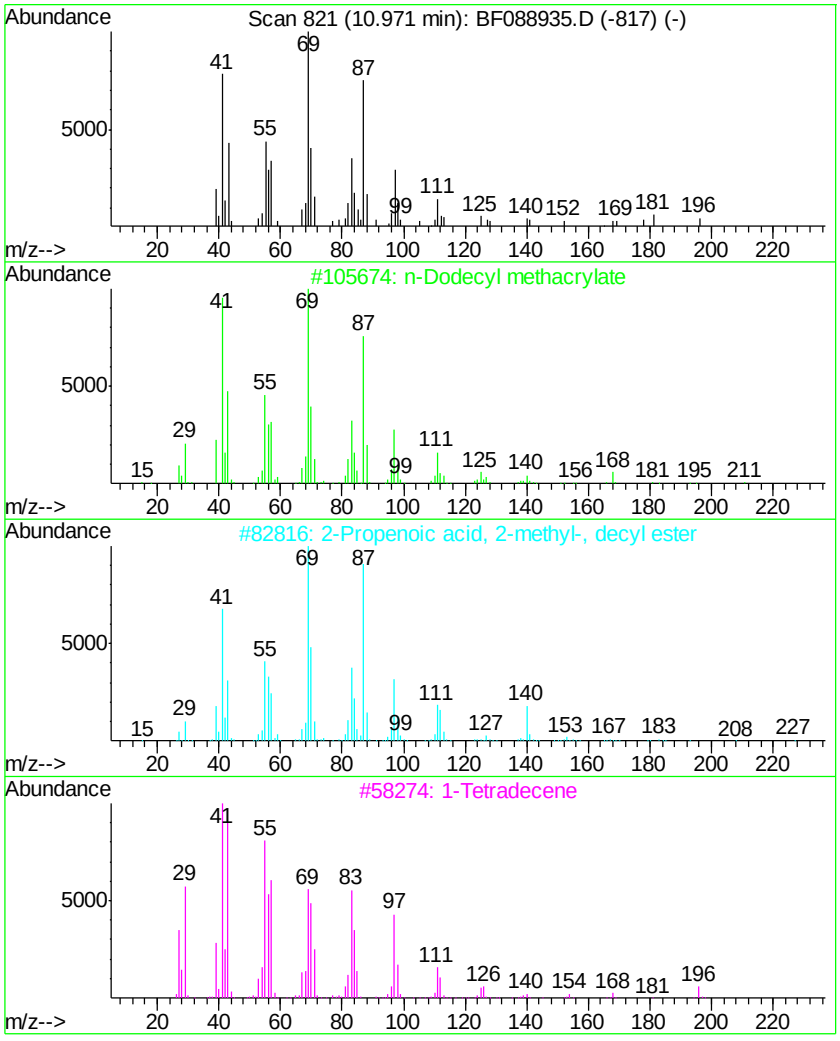
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

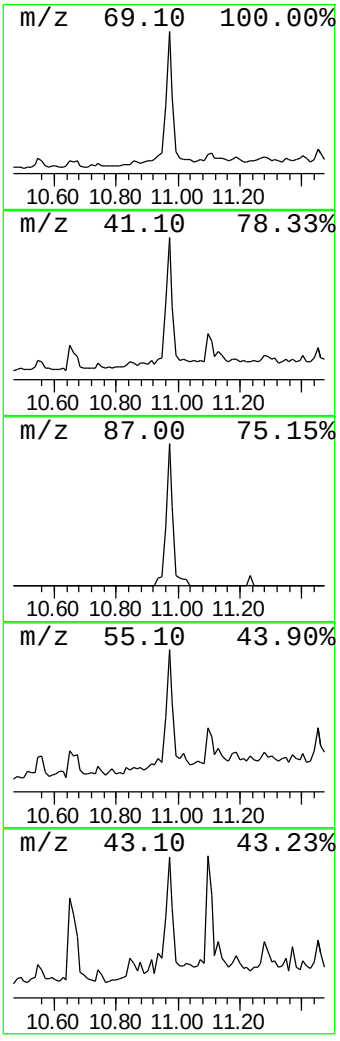
**********

Peak Number 7 n-Dodecyl methacrylate Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.97 | 6.74 ng | 122811 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Dodecyl methacrylate | 254 | C16H30O2 | 000142-90-5 | 94 |
| 2 | 2-Propenoic acid, 2-methyl-, dec... | 226 | C14H26O2 | 003179-47-3 | 91 |
| 3 | 1-Tetradecene | 196 | C14H28 | 001120-36-1 | 91 |
| 4 | 7-Tetradecene | 196 | C14H28 | 010374-74-0 | 80 |
| 5 | Methacrylic acid, tetradecyl ester | 282 | C18H34O2 | 1000340-29-0 | 64 |



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Data File : BF088935.D
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Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

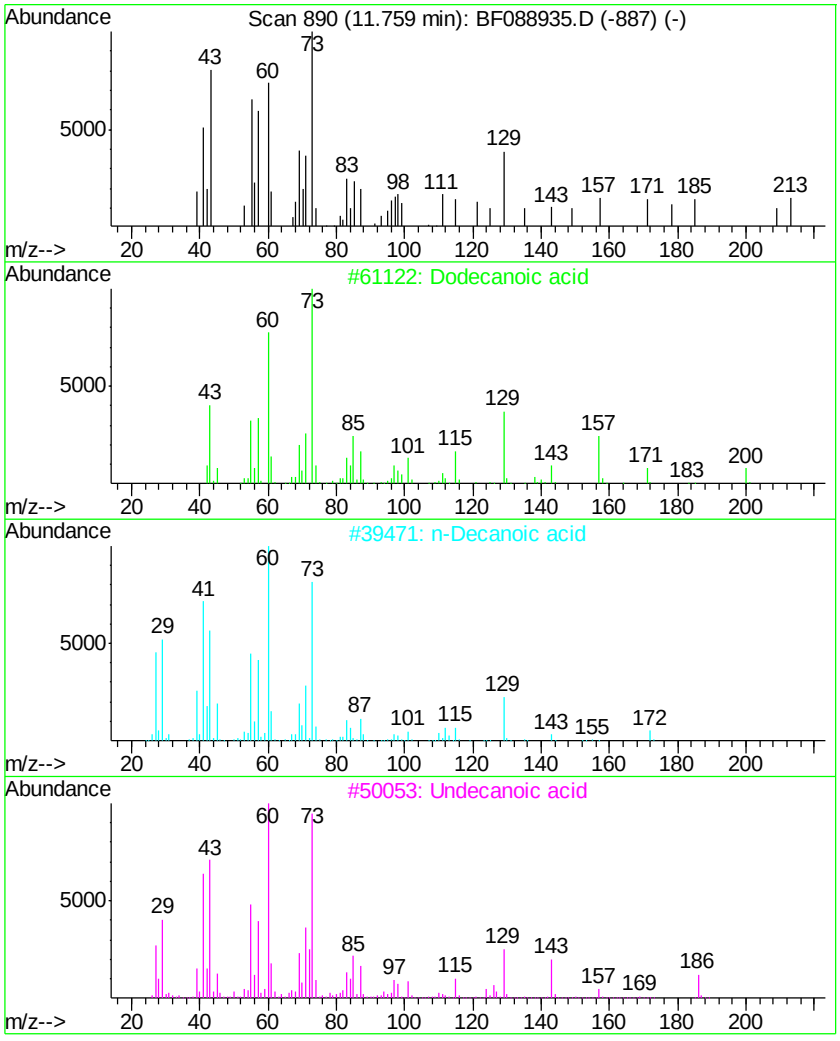
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

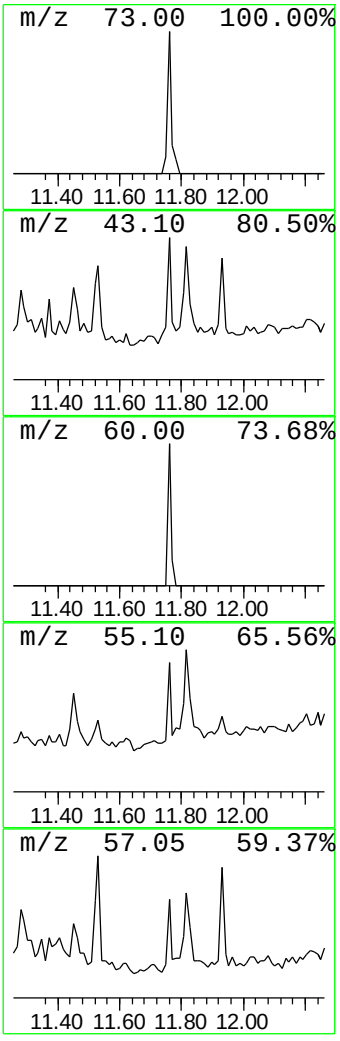
**********

Peak Number 8 Dodecanoic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 2.39 ng | 43577 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 64 |
| 2 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 53 |
| 3 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 45 |
| 4 | .alpha.-D-Glucopyranose, 4-O-.be... | 342 | C12H22O11 | 014641-93-1 | 43 |
| 5 | Methyl 4,6-ethylidene-.alpha.-d-... | 220 | C9H16O6 | 1000102-53-5 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
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Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

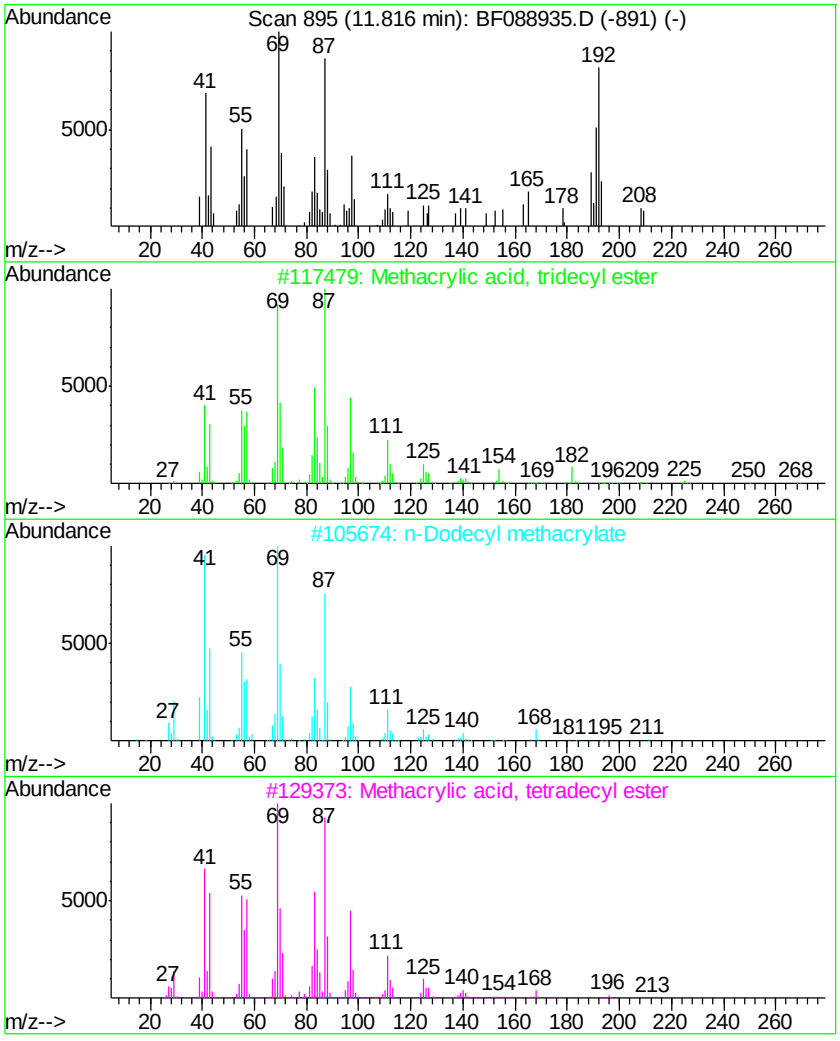
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

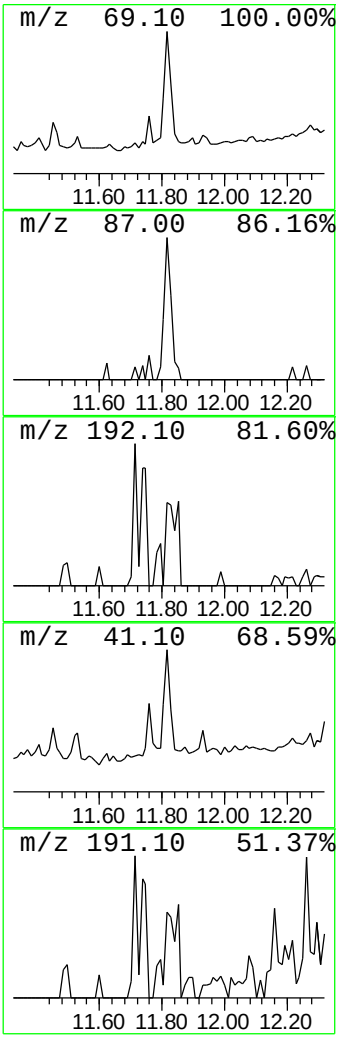
**********

Peak Number 9 Methacrylic acid, tridecyl ... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.82 | 5.18 ng | 94299 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methacrylic acid, tridecyl ester | 268 | C17H32O2 | 1000340-28-9 | 55 |
| 2 | n-Dodecyl methacrylate | 254 | C16H30O2 | 000142-90-5 | 49 |
| 3 | Methacrylic acid, tetradecyl ester | 282 | C18H34O2 | 1000340-29-0 | 42 |
| 4 | Cyclopropanecarboxylic acid,decy... | 226 | C14H26O2 | 054460-47-8 | 38 |
| 5 | Methacrylic acid, hexadecyl ester | 310 | C20H38O2 | 1000340-29-2 | 30 |



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Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

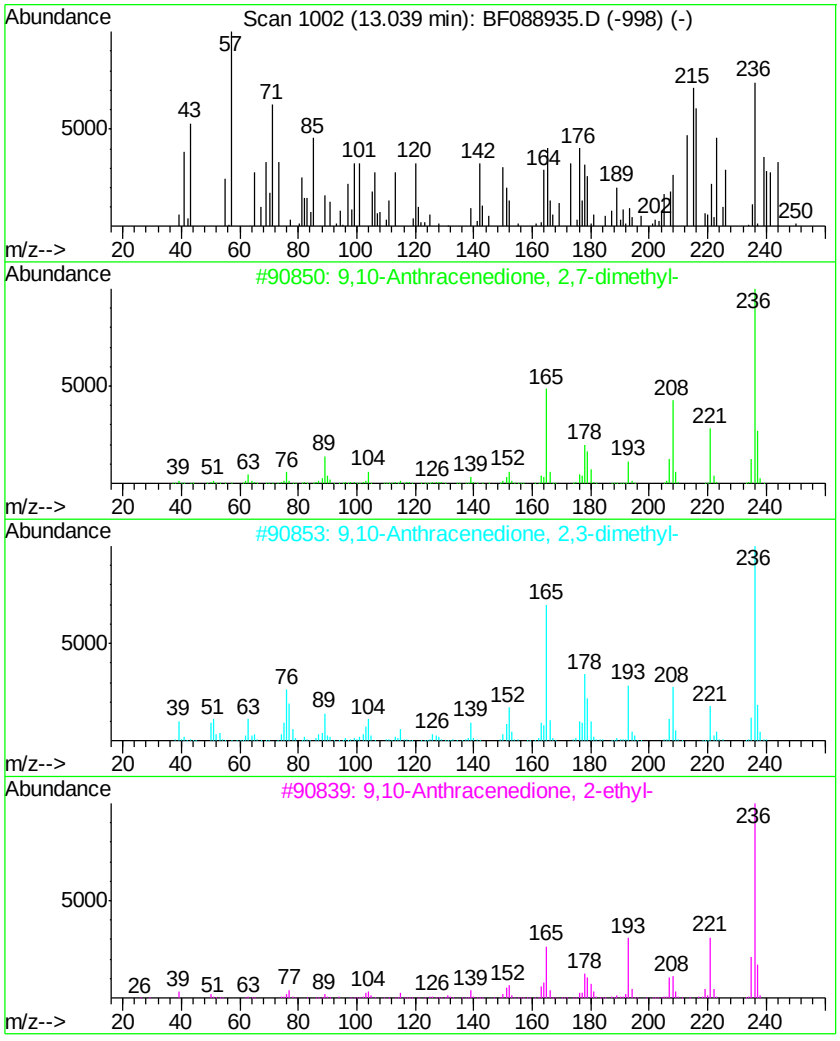
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

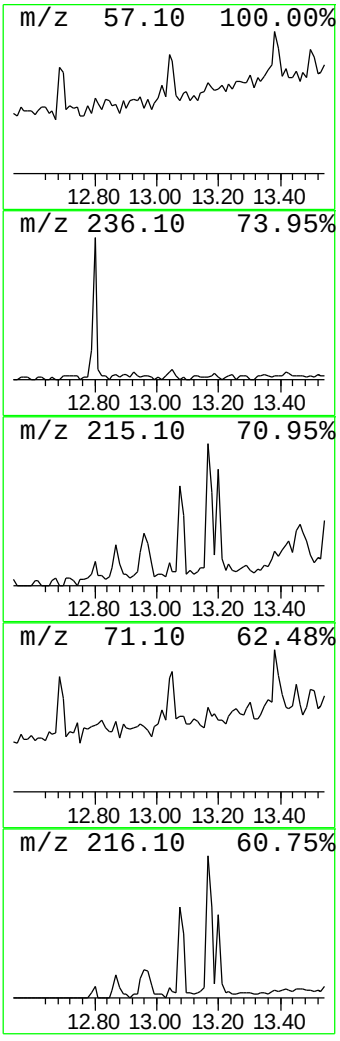
**********

Peak Number 11 unknown13.04 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.04 | 2.11 ng | 45441 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione, 2,7-dimethyl- | 236 | C16H12O2 | 003286-01-9 | 38 |
| 2 | 9,10-Anthracenedione, 2,3-dimethyl- | 236 | C16H12O2 | 006531-35-7 | 25 |
| 3 | 9,10-Anthracenedione, 2-ethyl- | 236 | C16H12O2 | 000084-51-5 | 18 |
| 4 | 1-(3-Methylbutyl)-3,6-diazahomoa... | 236 | C14H24N2O | 1000216-01-7 | 15 |
| 5 | 9,10-Anthracenedione, 1,4-dimethyl- | 236 | C16H12O2 | 001519-36-4 | 12 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
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Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

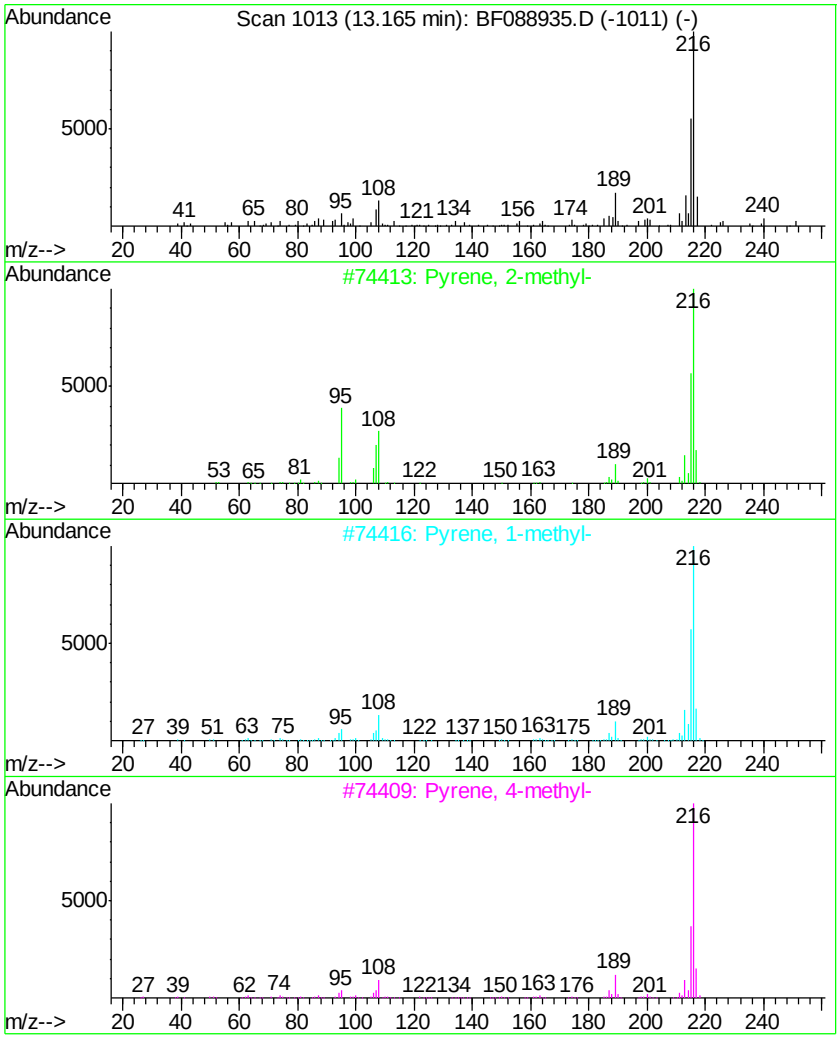
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

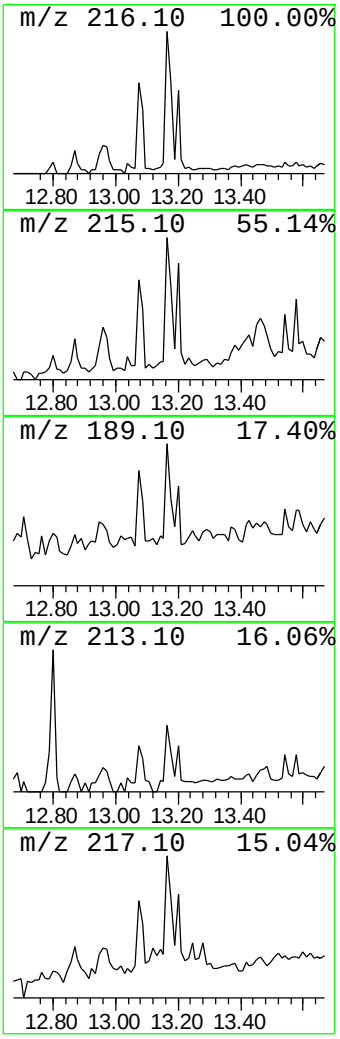
**********

Peak Number 12 Pyrene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.17 | 2.26 ng | 48777 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

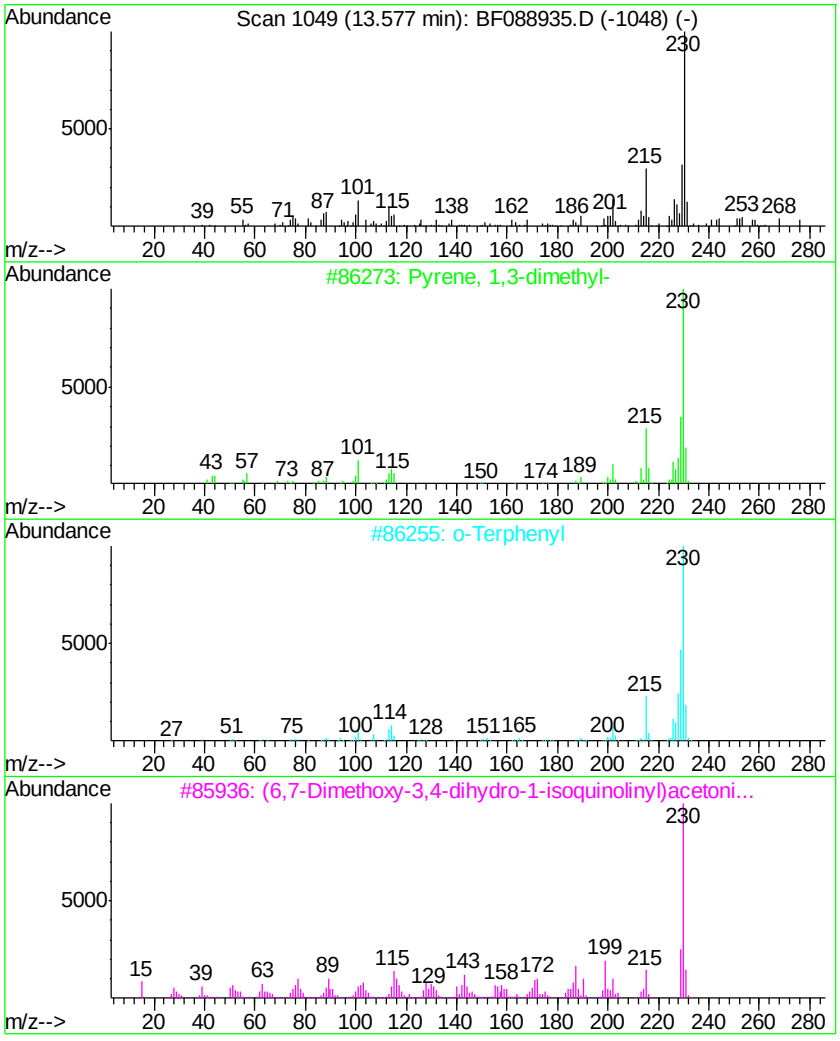
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

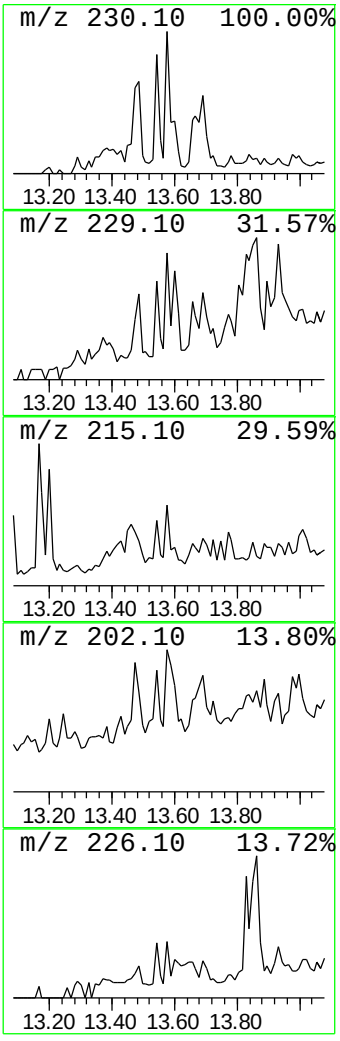
**********

Peak Number 13 Pyrene, 1,3-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.58 | 3.23 ng | 69788 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1,3-dimethyl- | 230 | C18H14 | 064401-21-4 | 83 |
| 2 | o-Terphenyl | 230 | C18H14 | 000084-15-1 | 68 |
| 3 | (6,7-Dimethoxy-3,4-dihydro-1-iso... | 230 | C13H14N2O2 | 1000332-51-4 | 53 |
| 4 | 2,2'-Bi-1H-indene | 230 | C18H14 | 000787-61-1 | 53 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 50 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

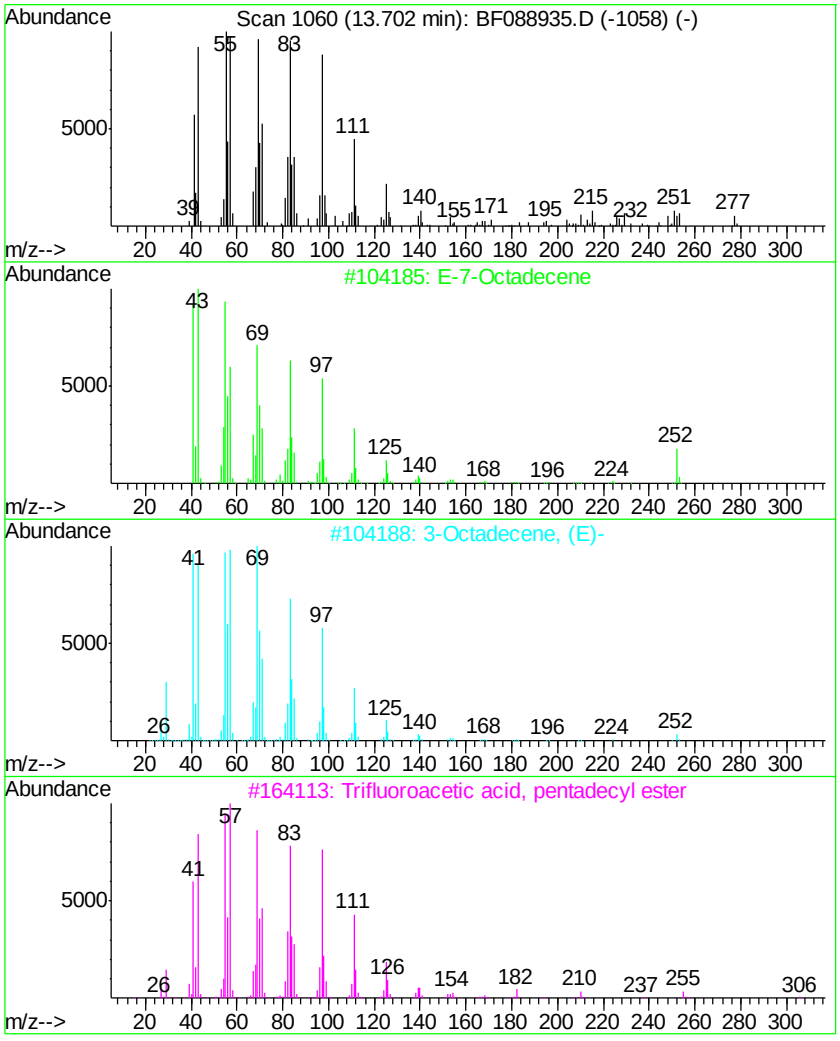
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

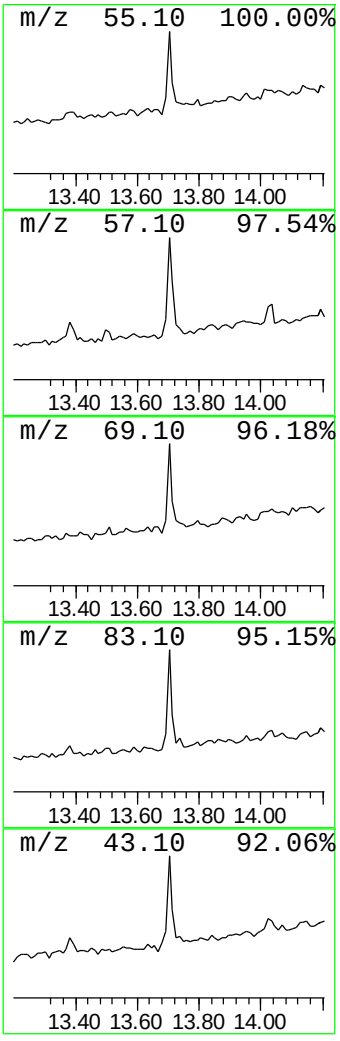
**********

Peak Number 14 E-7-Octadecene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.70 | 4.82 ng | 104023 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | E-7-Octadecene | 252 | C18H36 | 1000130-92-0 | 93 |
| 2 | 3-Octadecene, (E)- | 252 | C18H36 | 007206-19-1 | 93 |
| 3 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 91 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 91 |
| 5 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

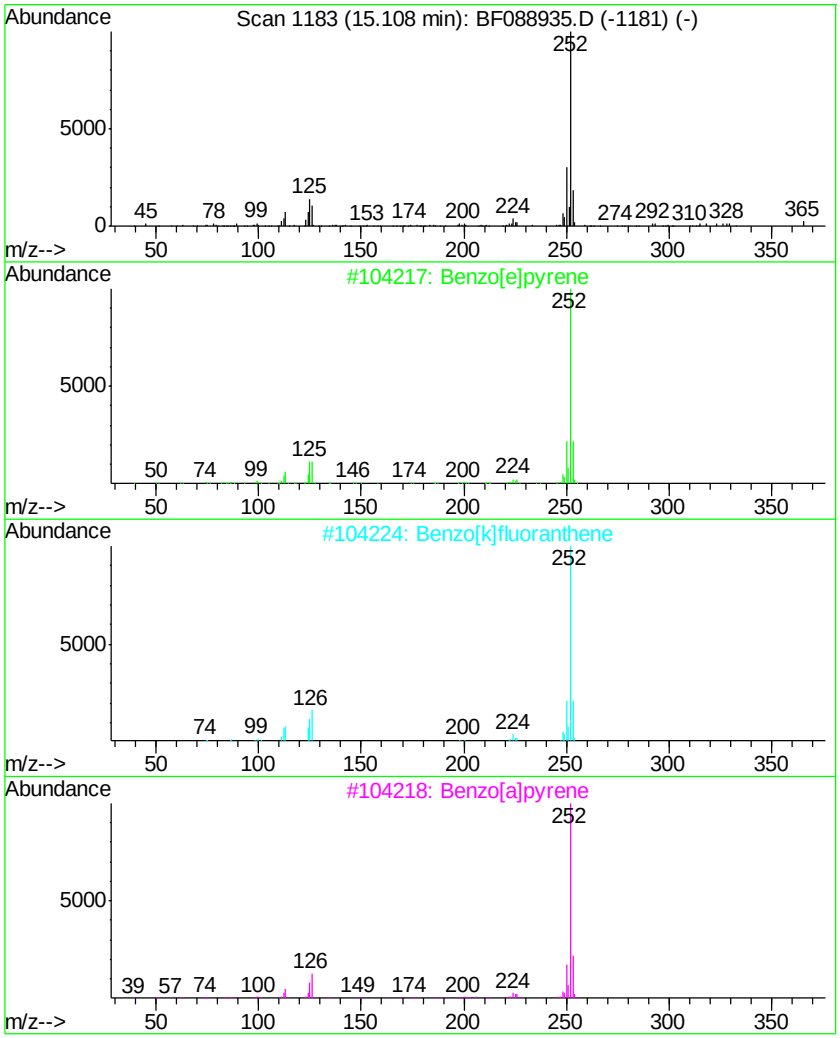
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

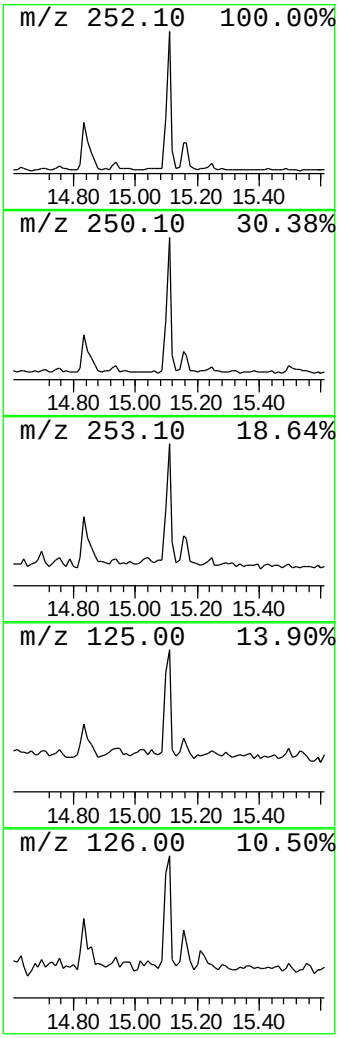
**********

Peak Number 15 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.11 | 6.95 ng | 97093 | Perylene-d12 | 15.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071216\
Data File : BF088935.D
Acq On : 12 Jul 2016 22:57
Operator : UM/SJ
Sample : H3934-19
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C3-09

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.84 | 8.6 | ng | 159776 | 1 | 6.71 | 372967 | 20.0 |
| unknown6.48 | 6.48 | 77.4 | ng | 1443930 | 1 | 6.71 | 372967 | 20.0 |
| 1-Iodo-2-methylun... | 10.65 | 2.1 | ng | 39089 | 4 | 11.21 | 364387 | 20.0 |
| n-Dodecyl methacr... | 10.97 | 6.7 | ng | 122811 | 4 | 11.21 | 364387 | 20.0 |
| Dodecanoic acid | 11.76 | 2.4 | ng | 43577 | 4 | 11.21 | 364387 | 20.0 |
| Methacrylic acid,... | 11.82 | 5.2 | ng | 94299 | 4 | 11.21 | 364387 | 20.0 |
| unknown13.04 | 13.04 | 2.1 | ng | 45441 | 5 | 13.84 | 431633 | 20.0 |
| Pyrene, 2-methyl- | 13.17 | 2.3 | ng | 48777 | 5 | 13.84 | 431633 | 20.0 |
| Pyrene, 1,3-dimet... | 13.58 | 3.2 | ng | 69788 | 5 | 13.84 | 431633 | 20.0 |
| E-7-Octadecene | 13.70 | 4.8 | ng | 104023 | 5 | 13.84 | 431633 | 20.0 |
| Benzo[e]pyrene | 15.11 | 7.0 | ng | 97093 | 6 | 15.22 | 279529 | 20.0 |