LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

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-BF052615.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 | 1.553 | 31 | 32 | 40 | rBV | 573067 | 959172 | 11.94% | 3.165% |
| 2 | 1.656 | 40 | 41 | 84 | rVB | 3344725 | 8033741 | 100.00% | 26.509% |
| 3 | 4.662 | 302 | 304 | 314 | rBV | 54678 | 96603 | 1.20% | 0.319% |
| 4 | 5.222 | 351 | 353 | 369 | rBV | 1373234 | 1762316 | 21.94% | 5.815% |
| 5 | 6.547 | 467 | 469 | 477 | rBV | 1625047 | 1794201 | 22.33% | 5.920% |
| 6 | 6.662 | 477 | 479 | 482 | rBV | 1450056 | 1877783 | 23.37% | 6.196% |
| 7 | 6.947 | 502 | 504 | 507 | rBV | 380434 | 394910 | 4.92% | 1.303% |
| 8 | 7.130 | 518 | 520 | 523 | rBV | 1175575 | 1371636 | 17.07% | 4.526% |
| 9 | 7.656 | 563 | 566 | 568 | rBV | 887707 | 1091092 | 13.58% | 3.600% |
| 10 | 8.525 | 640 | 642 | 645 | rBV | 563079 | 542975 | 6.76% | 1.792% |
| 11 | 9.874 | 758 | 760 | 763 | rBV | 2011990 | 1864853 | 23.21% | 6.154% |
| 12 | 10.388 | 803 | 805 | 807 | rBV | 454782 | 404826 | 5.04% | 1.336% |
| 13 | 10.696 | 829 | 832 | 834 | rVB | 409751 | 560234 | 6.97% | 1.849% |
| 14 | 11.668 | 915 | 917 | 920 | rBV | 1237437 | 1340390 | 16.68% | 4.423% |
| 15 | 12.525 | 990 | 992 | 993 | rBV | 581142 | 578114 | 7.20% | 1.908% |
| 16 | 12.548 | 993 | 994 | 997 | rVV | 110530 | 128681 | 1.60% | 0.425% |
| 17 | 13.280 | 1052 | 1058 | 1060 | rVV5 | 83165 | 190368 | 2.37% | 0.628% |
| 18 | 13.520 | 1077 | 1079 | 1083 | rVV2 | 48172 | 81546 | 1.02% | 0.269% |
| 19 | 13.714 | 1094 | 1096 | 1101 | rBV4 | 69394 | 116555 | 1.45% | 0.385% |
| 20 | 13.828 | 1101 | 1106 | 1108 | rBV3 | 39138 | 98999 | 1.23% | 0.327% |
| 21 | 14.023 | 1120 | 1123 | 1125 | rVB | 308238 | 323462 | 4.03% | 1.067% |
| 22 | 14.102 | 1128 | 1130 | 1132 | rVB2 | 75498 | 99226 | 1.24% | 0.327% |
| 23 | 14.297 | 1145 | 1147 | 1152 | rBV | 305651 | 362167 | 4.51% | 1.195% |
| 24 | 14.468 | 1160 | 1162 | 1164 | rBV | 75958 | 102635 | 1.28% | 0.339% |
| 25 | 14.514 | 1164 | 1166 | 1169 | rBV | 1795500 | 1867591 | 23.25% | 6.163% |
| 26 | 14.674 | 1178 | 1180 | 1182 | rBV | 279667 | 331309 | 4.12% | 1.093% |
| 27 | 14.845 | 1193 | 1195 | 1200 | rBV3 | 58548 | 137569 | 1.71% | 0.454% |
| 28 | 15.040 | 1210 | 1212 | 1214 | rVV | 80451 | 84220 | 1.05% | 0.278% |
| 29 | 15.268 | 1225 | 1232 | 1233 | rBV6 | 30728 | 110184 | 1.37% | 0.364% |
| 30 | 15.691 | 1266 | 1269 | 1272 | rBV | 280358 | 379091 | 4.72% | 1.251% |
| 31 | 15.794 | 1275 | 1278 | 1280 | rVV2 | 670867 | 946613 | 11.78% | 3.124% |
| 32 | 15.828 | 1280 | 1281 | 1283 | rVV | 170221 | 155537 | 1.94% | 0.513% |
| 33 | 15.977 | 1291 | 1294 | 1299 | rBV5 | 28853 | 98323 | 1.22% | 0.324% |
| 34 | 17.063 | 1386 | 1389 | 1396 | rBV | 150246 | 364851 | 4.54% | 1.204% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.257 | 1404 | 1406 | 1412 | rBV3 | 34649 | 124603 | 1.55% | 0.411% |
| 36 | 17.371 | 1414 | 1416 | 1419 | rBV | 75803 | 99507 | 1.24% | 0.328% |
| 37 | 17.440 | 1419 | 1422 | 1425 | rVB | 151550 | 188104 | 2.34% | 0.621% |
| 38 | 17.497 | 1425 | 1427 | 1430 | rBV | 532073 | 715197 | 8.90% | 2.360% |
| 39 | 17.989 | 1468 | 1470 | 1472 | rBV2 | 50293 | 83942 | 1.04% | 0.277% |
| 40 | 18.069 | 1475 | 1477 | 1480 | rBV4 | 47011 | 95039 | 1.18% | 0.314% |
| 41 | 18.320 | 1496 | 1499 | 1505 | rBV | 57305 | 142295 | 1.77% | 0.470% |
| 42 | 18.789 | 1538 | 1540 | 1543 | rBV2 | 61554 | 118374 | 1.47% | 0.391% |
| 43 | 19.166 | 1570 | 1573 | 1576 | rVB | 46696 | 86348 | 1.07% | 0.285% |

Sum of corrected areas: 30305182

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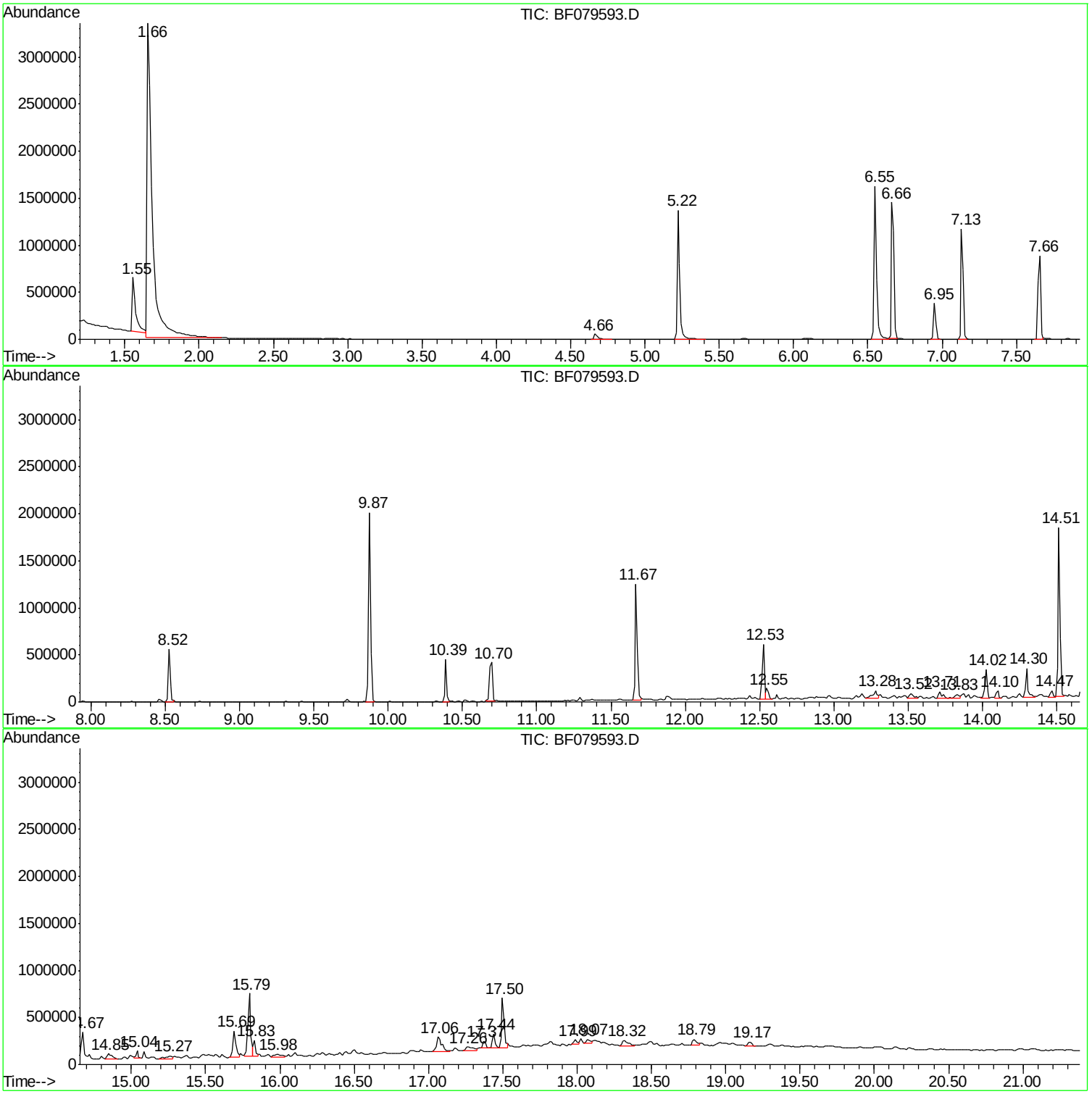
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

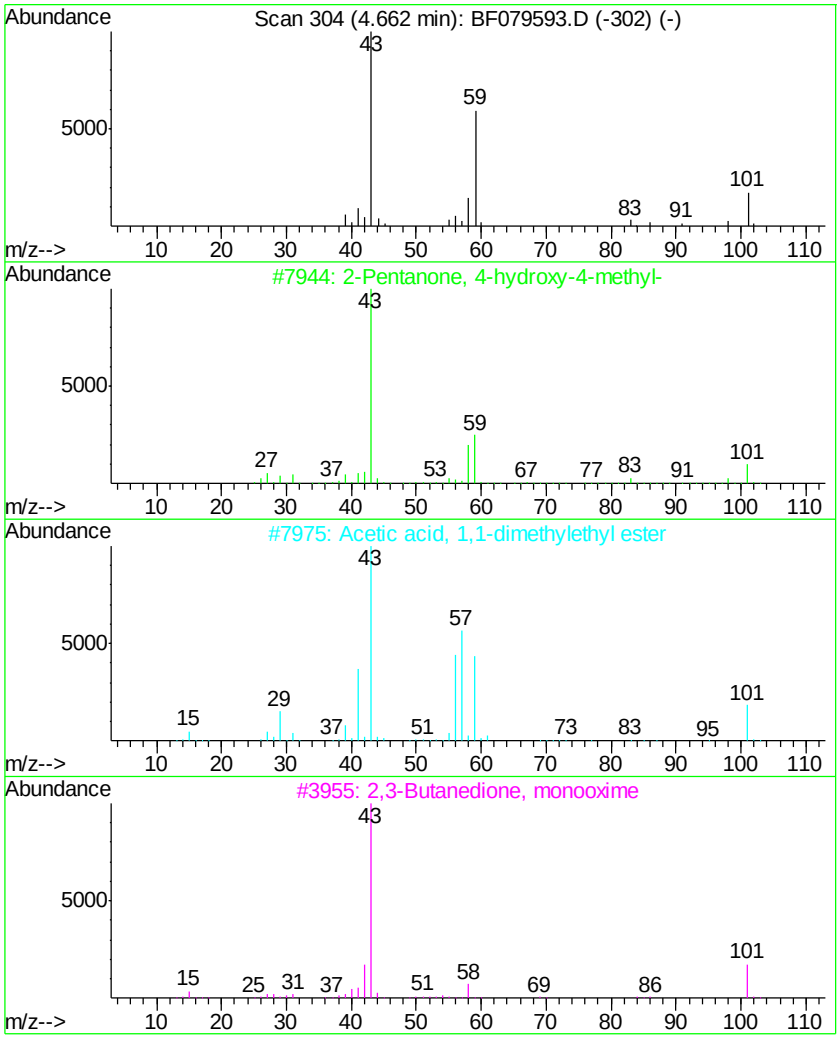
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

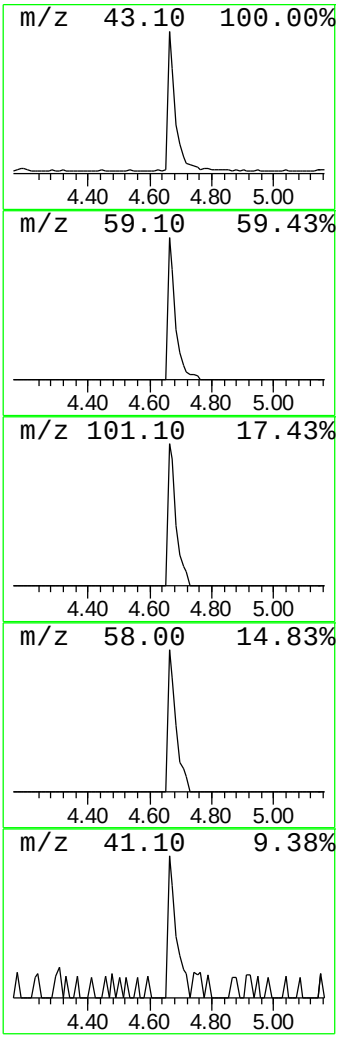
**********

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.66 | 4.89 ng | 96603 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 38 |
| 4 | 3-Heptanol | 116 | C7H16O | 000589-82-2 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

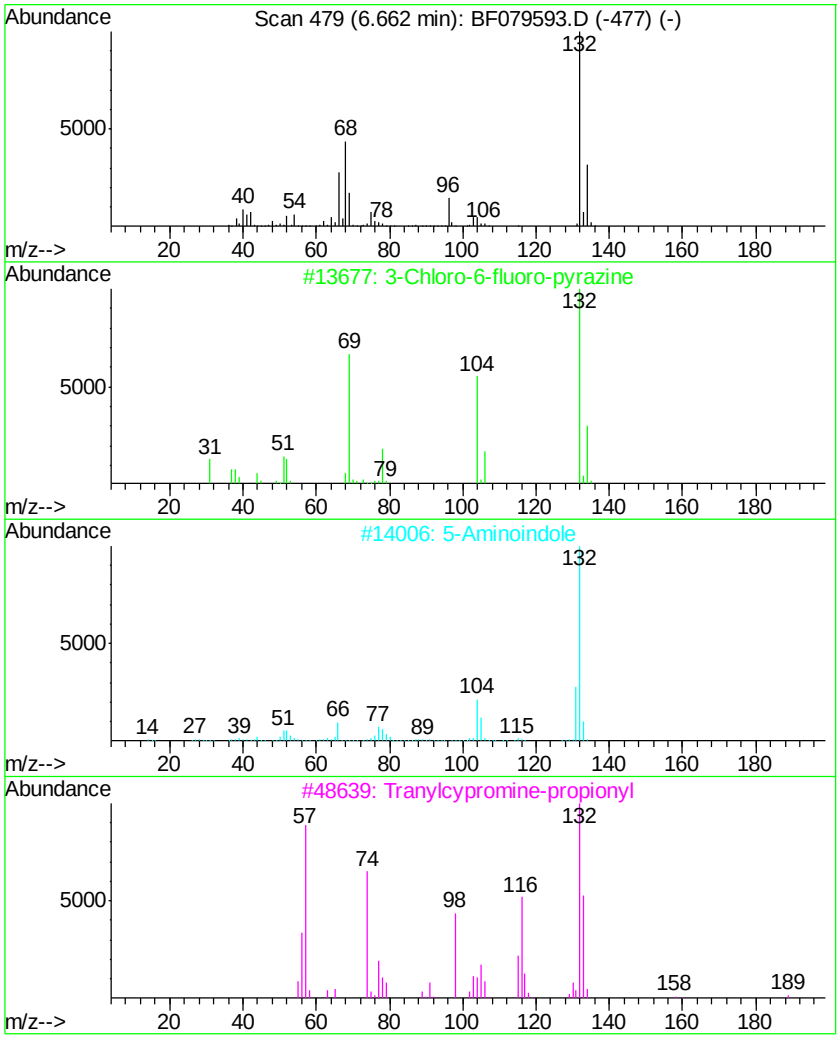
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

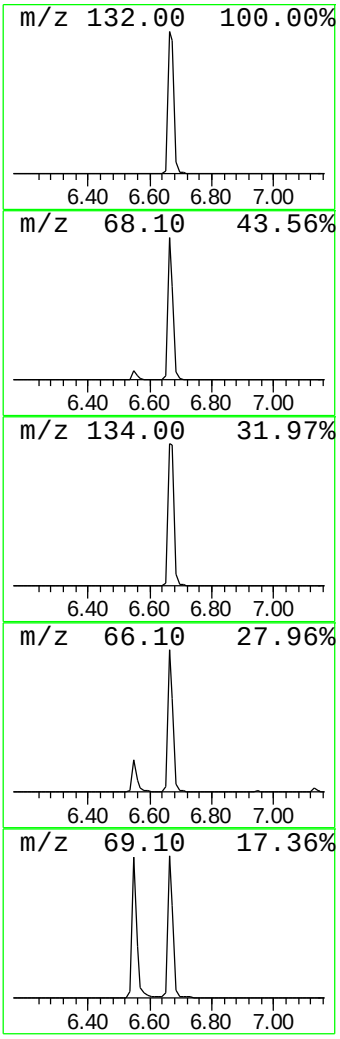
**********

Peak Number 4 unknown6.66 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 95.10 ng | 1877780 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

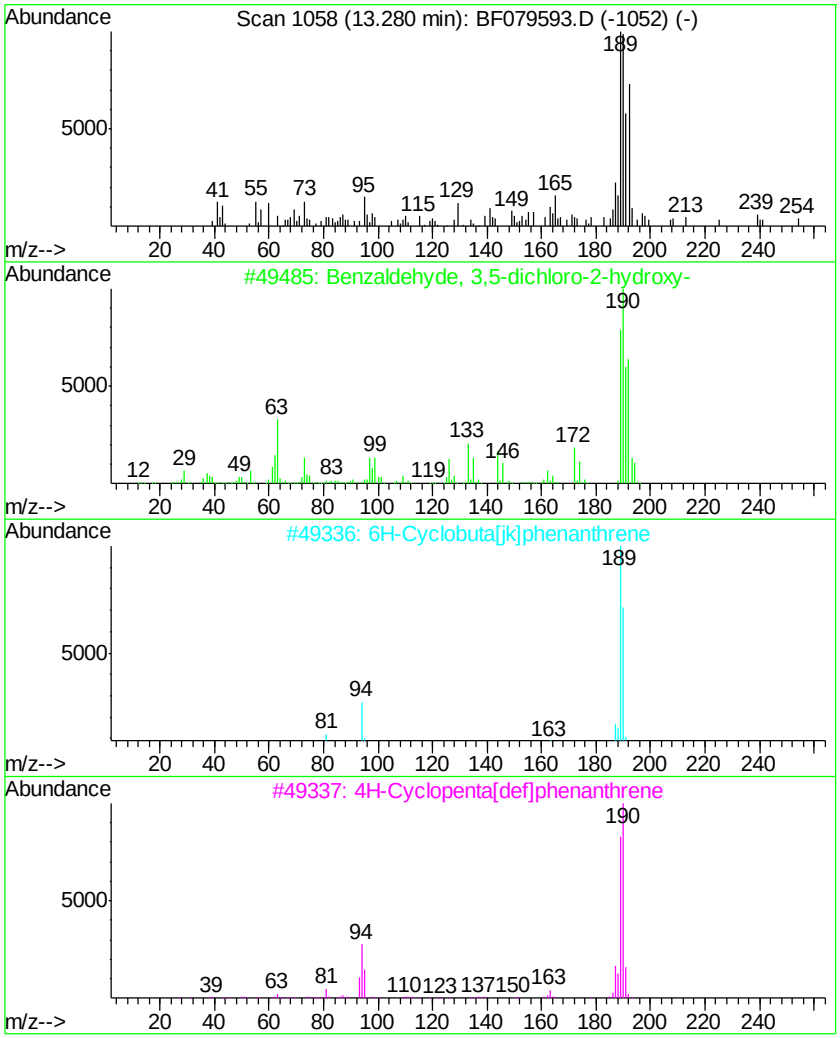
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

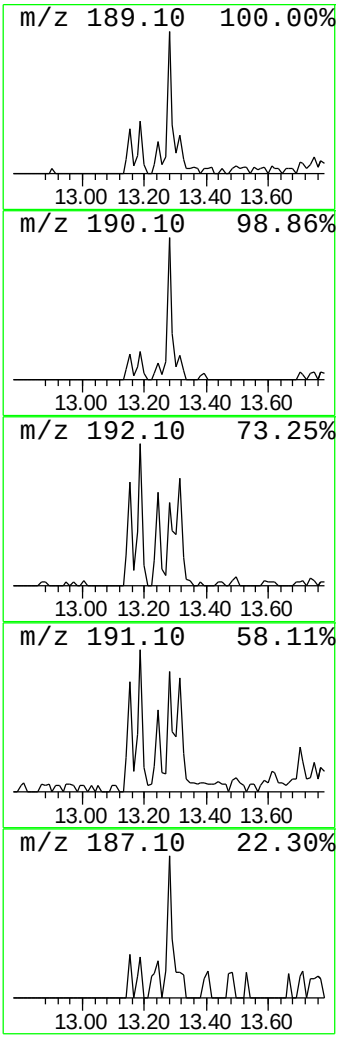
**********

Peak Number 6 Benzaldehyde, 3,5-dichloro-... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.28 | 6.59 ng | 190368 | Phenanthrene-d10 | 12.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 80 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 4 | 4-Amino-3,5-dichloro-2,6-lutidine | 190 | C7H8Cl2N2 | 050978-40-0 | 38 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 35 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

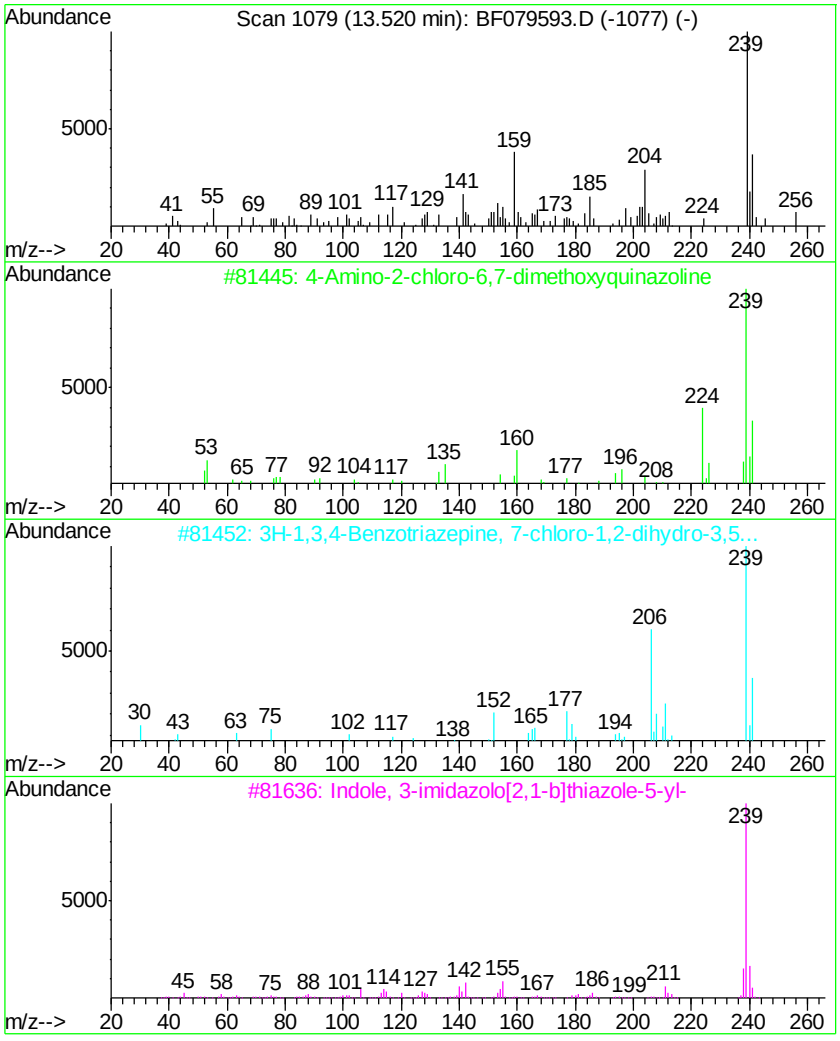
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

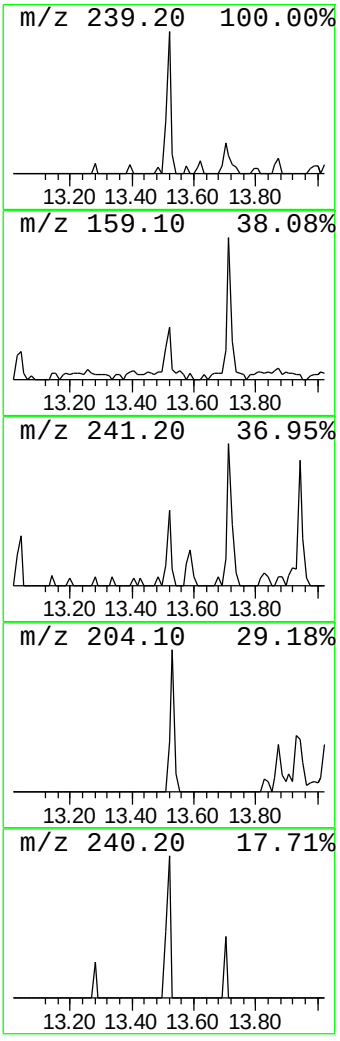
**********

Peak Number 7 4-Amino-2-chloro-6,7-dimeth... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.52 | 2.82 ng | 81546 | Phenanthrene-d10 | 12.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Amino-2-chloro-6,7-dimethoxyqu... | 239 | C10H10ClN3O2 | 023680-84-4 | 50 |
| 2 | 3H-1,3,4-Benzotriazepine, 7-chlo... | 239 | C10H10ClN3S | 105999-04-0 | 47 |
| 3 | Indole, 3-imidazolo[2,1-b]thiazo... | 239 | C13H9N3S | 292855-05-1 | 45 |
| 4 | 9,10-Anthracenedione, 1-amino-4-... | 239 | C14H9NO3 | 000116-85-8 | 45 |
| 5 | 2-Amino-4-hydrazinocarbonyl-6-mo... | 239 | C8H13N7O2 | 036739-65-8 | 43 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

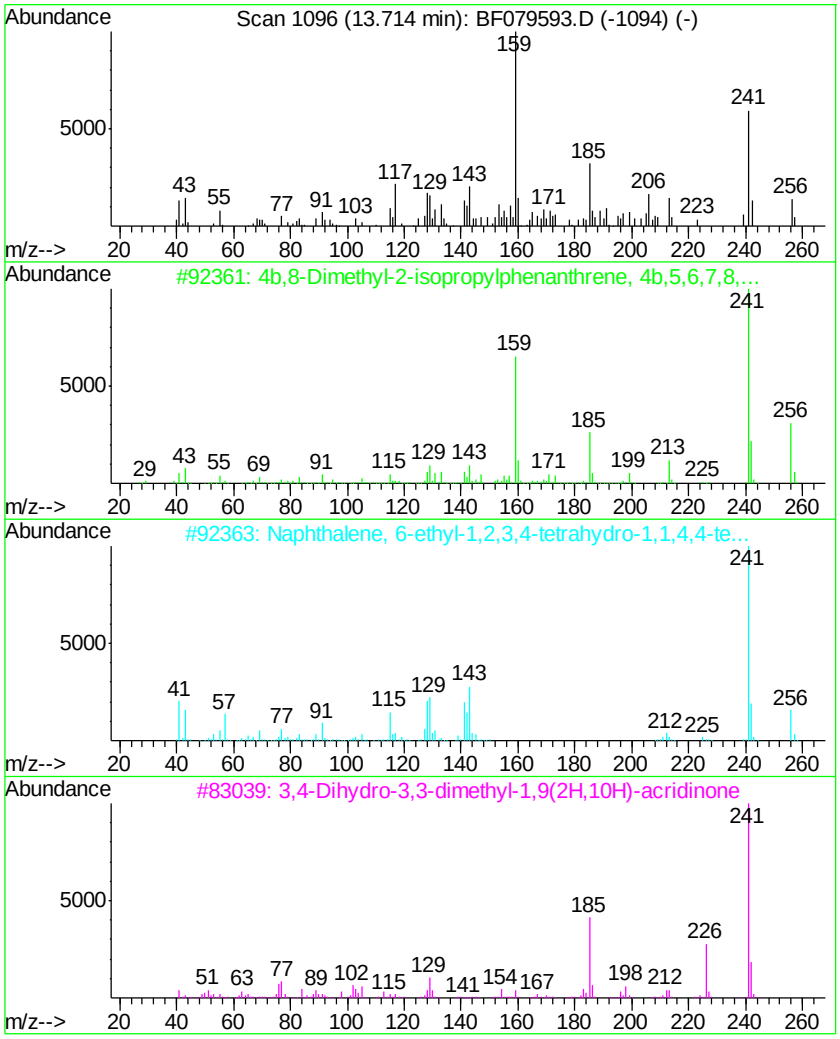
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

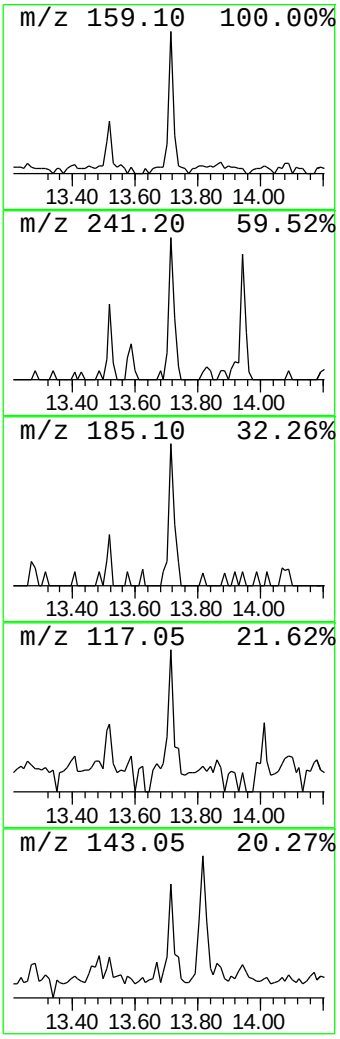
**********

Peak Number 8 4b,8-Dimethyl-2-isopropylph... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.71 | 4.03 ng | 116555 | Phenanthrene-d10 | 12.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 93 |
| 2 | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28 | 301643-35-6 | 47 |
| 3 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1000212-95-2 | 35 |
| 4 | 8-Quinolinemethanol | 159 | C10H9NO | 016032-35-2 | 25 |
| 5 | Benzene, 1,1'-(1-methylethyliden... | 256 | C17H20O2 | 001568-83-8 | 18 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

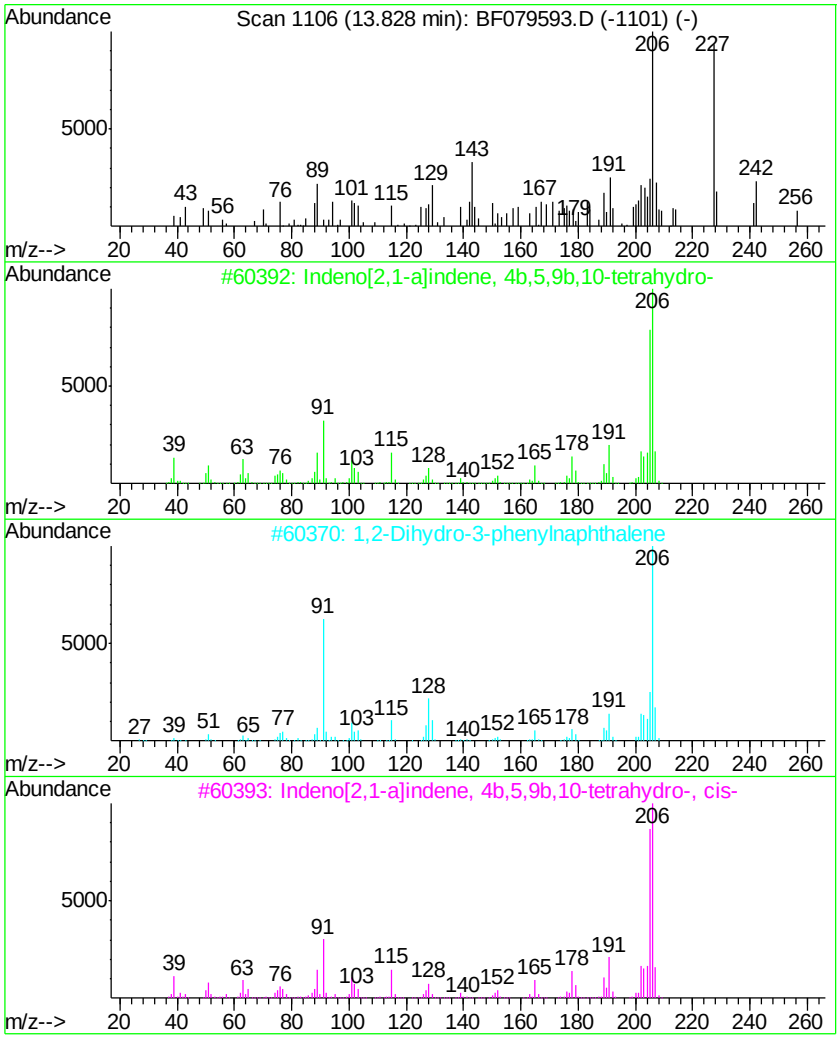
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

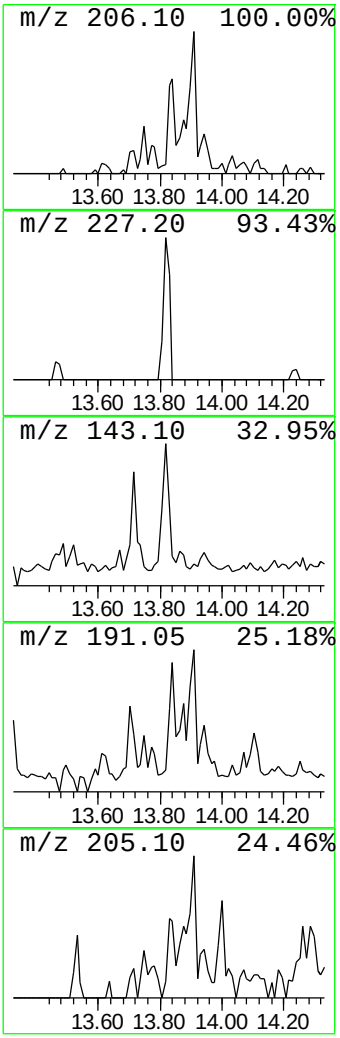
**********

Peak Number 9 Indeno[2,1-a]indene, 4b,5,9... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 3.42 ng | 98999 | Phenanthrene-d10 | 12.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indeno[2,1-a]indene, 4b,5,9b,10-... | 206 | C16H14 | 005695-17-0 | 60 |
| 2 | 1,2-Dihydro-3-phenylnaphthalene | 206 | C16H14 | 020669-52-7 | 55 |
| 3 | Indeno[2,1-a]indene, 4b,5,9b,10-... | 206 | C16H14 | 016293-79-1 | 46 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 46 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 46 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

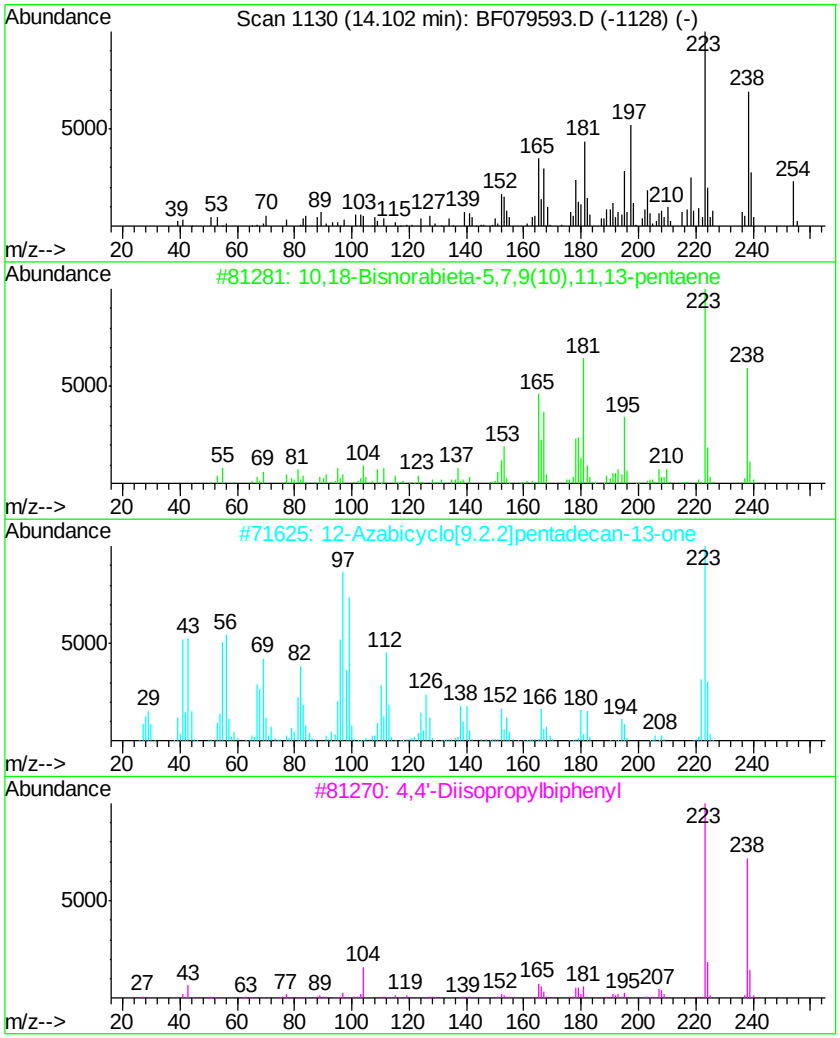
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

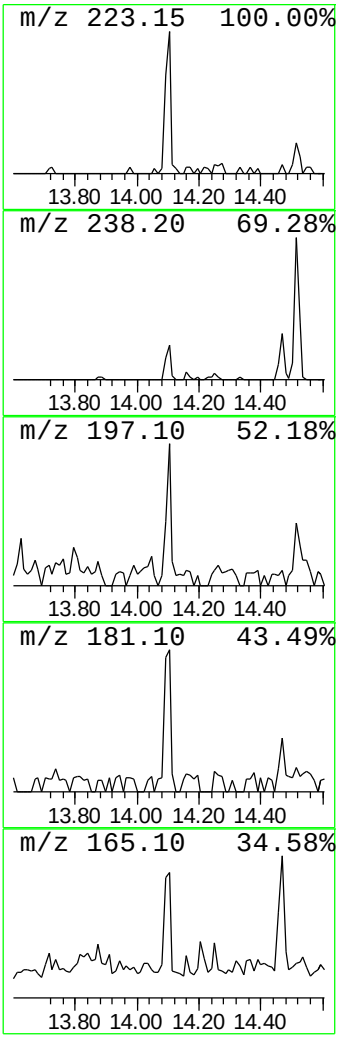
**********

Peak Number 10 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.10 | 3.43 ng | 99226 | Phenanthrene-d10 | 12.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 93 |
| 2 | 12-Azabicyclo[9.2.2]pentadecan-1... | 223 | C14H25NO | 1000191-26-7 | 60 |
| 3 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 43 |
| 4 | 2-Isopropylxanthen-9-one | 238 | C16H14O2 | 069737-66-2 | 38 |
| 5 | Benzene, 1,1'-ethylidenebis[3,4-... | 238 | C18H22 | 001742-14-9 | 38 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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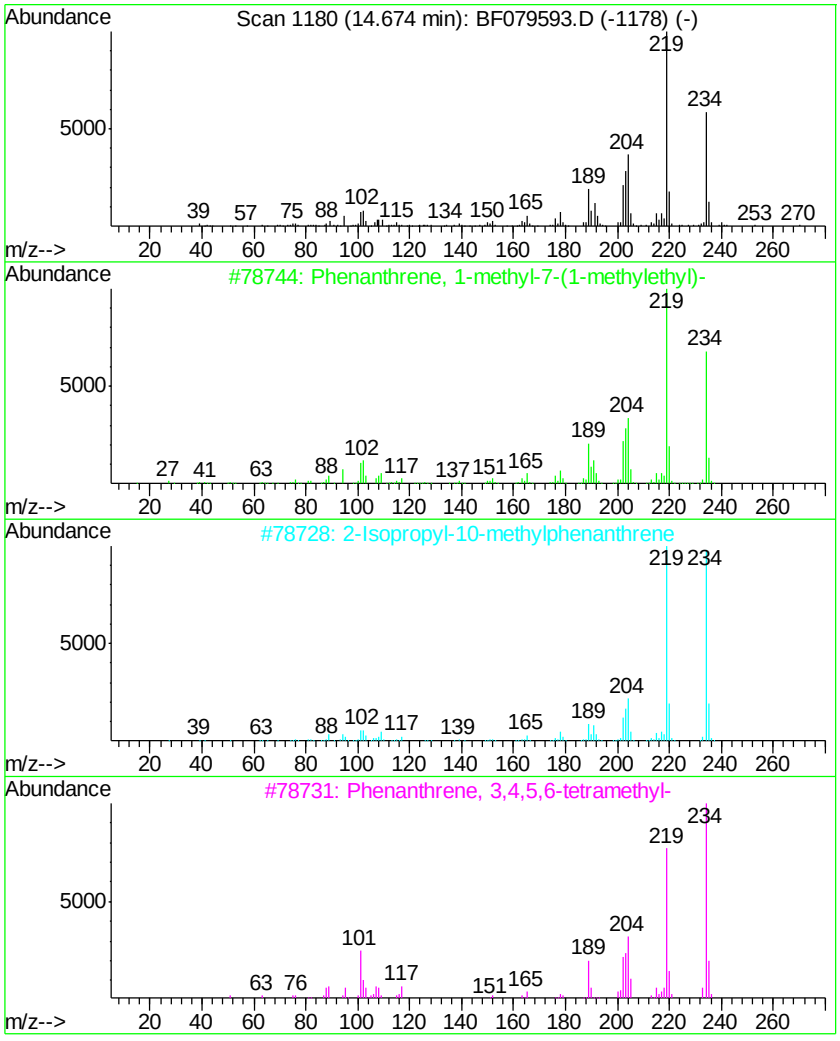
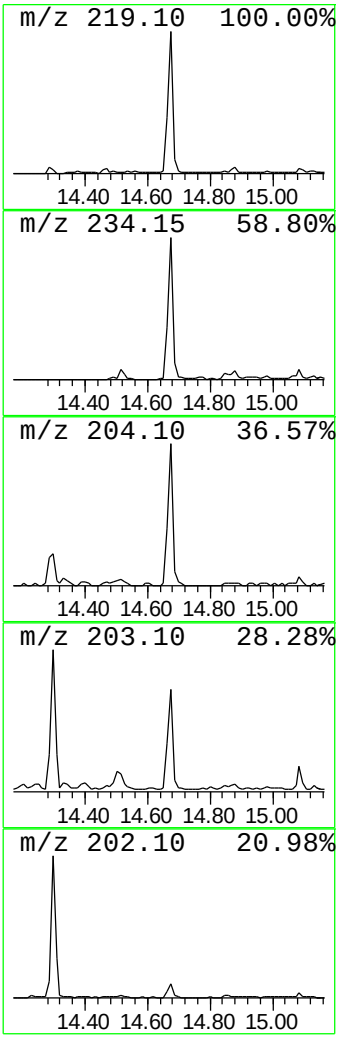
Peak Number 11 Phenanthrene, 1-methyl-7-(1... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.67 | 7.00 ng | 331309 | Chrysene-d12 | 15.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl-7-(1-meth... | 234 | C18H18 | 000483-65-8 | 98 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 94 |
| 3 | Phenanthrene, 3,4,5,6-tetramethyl- | 234 | C18H18 | 007343-06-8 | 81 |
| 4 | 1-(10-Methylanthracen-9-yl)ethanone | 234 | C17H14O | 036778-18-4 | 58 |
| 5 | Phenol, 2,6-bis(1,1-dimethylethy... | 234 | C16H26O | 004130-42-1 | 49 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

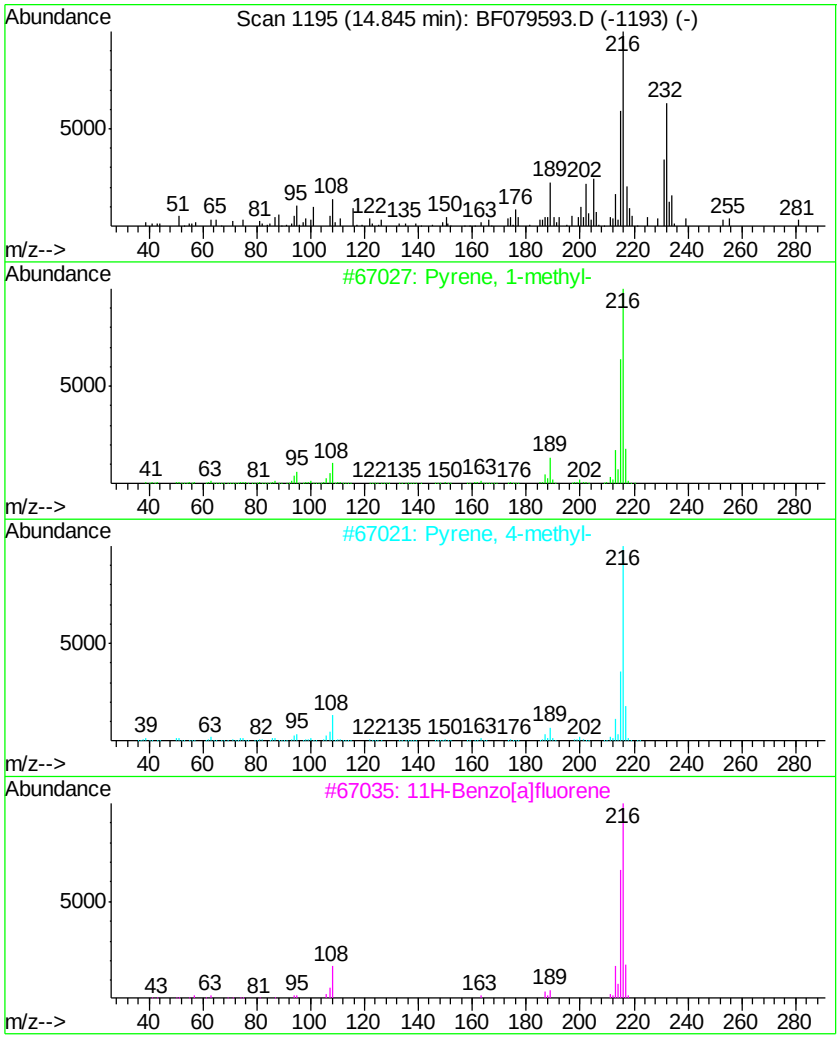
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

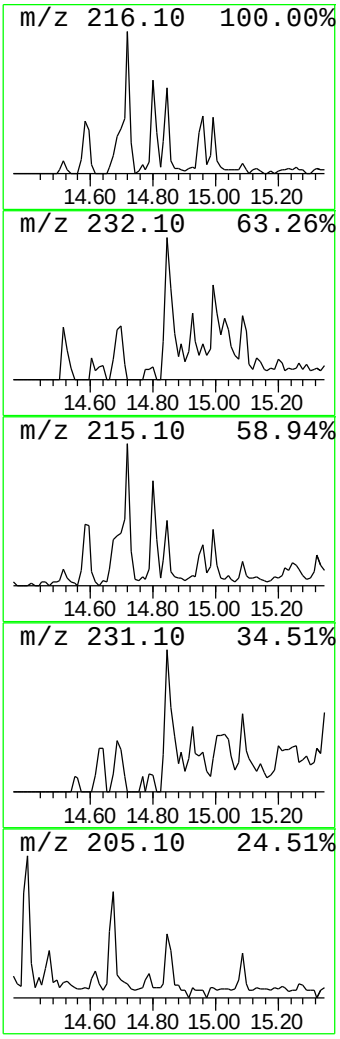
**********

Peak Number 12 Pyrene, 1-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 2.91 ng | 137569 | Chrysene-d12 | 15.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 64 |
| 2 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 50 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 50 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 50 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 45 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

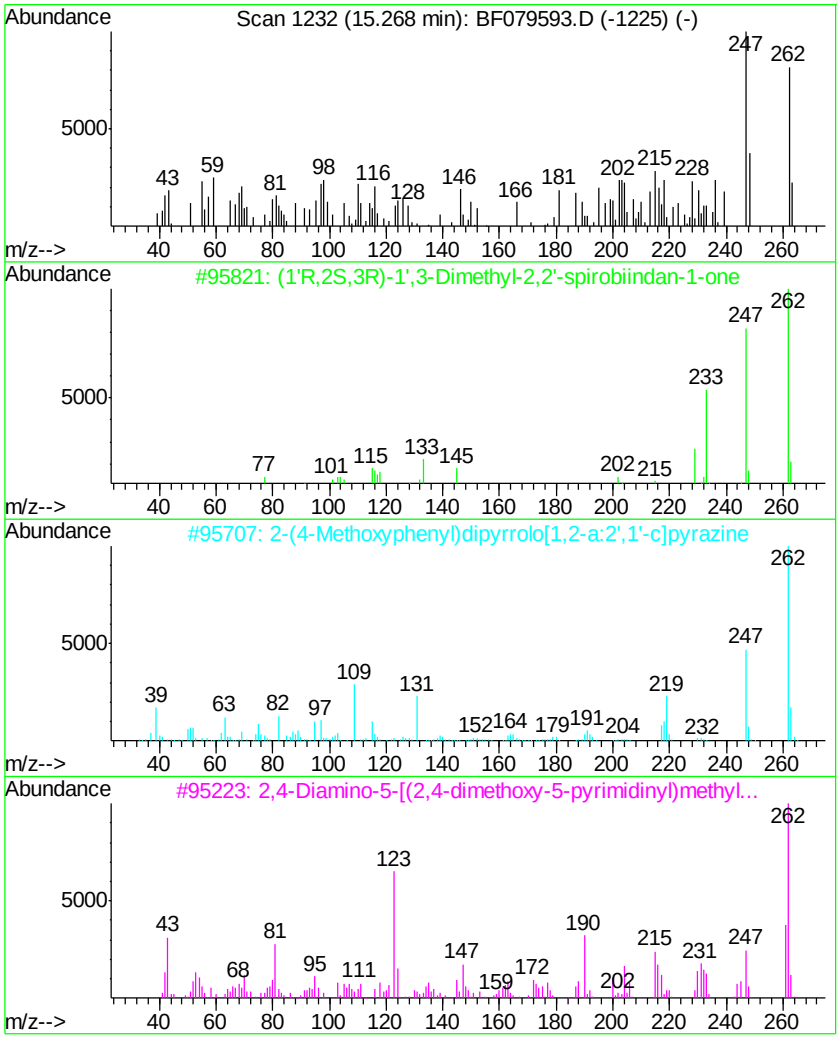
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

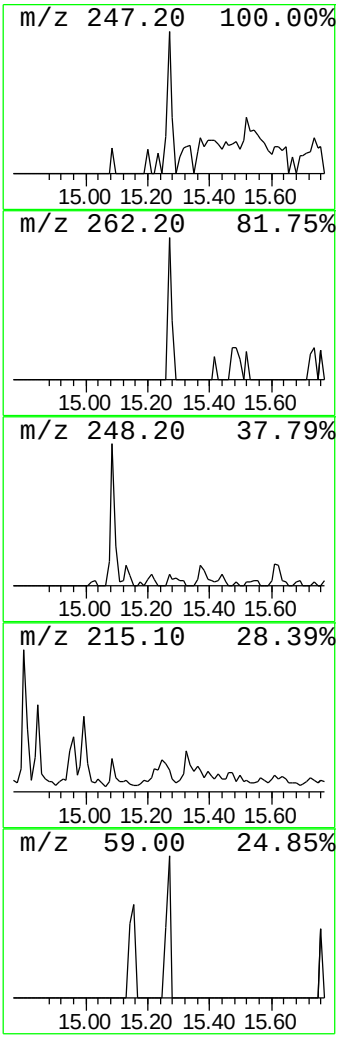
**********

Peak Number 13 unknown15.27 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.27 | 2.33 ng | 110184 | Chrysene-d12 | 15.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (1'R,2S,3R)-1',3-Dimethyl-2,2'-s... | 262 | C19H18O | 1000099-36-1 | 37 |
| 2 | 2-(4-Methoxyphenyl)dipyrrolo[1,2... | 262 | C17H14N2O | 199461-99-9 | 35 |
| 3 | 2,4-Diamino-5-[(2,4-dimethoxy-5-... | 262 | C11H14N6O2 | 052606-09-4 | 35 |
| 4 | Phosphoric acid, (dimethyl) 3,4-... | 262 | C10H15O6P | 094420-74-3 | 27 |
| 5 | Anthracene, 1,2,3,4,5,6,7,8-octa... | 262 | C20H22 | 125379-29-5 | 27 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

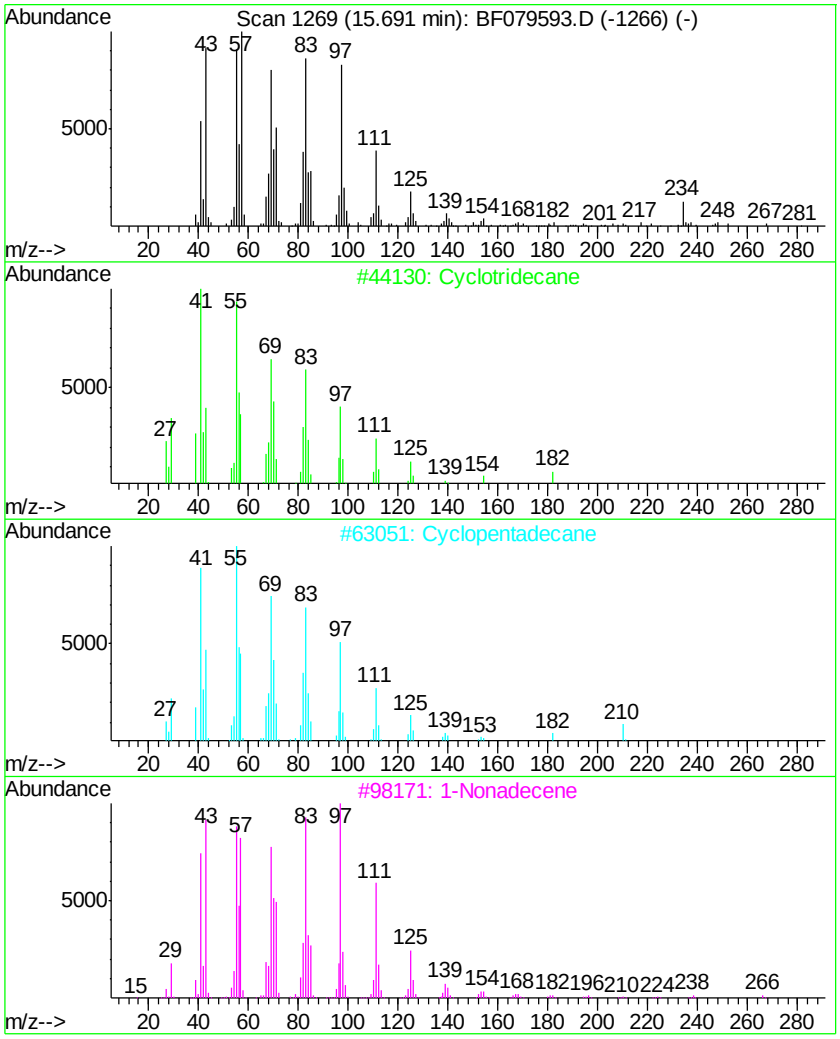
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

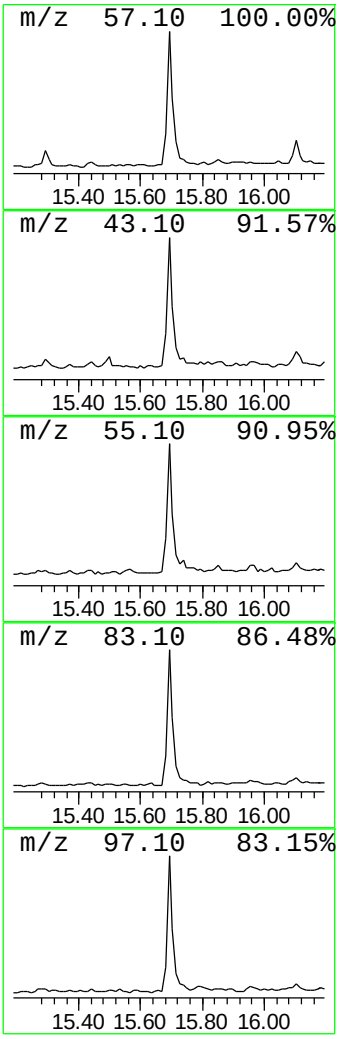
**********

Peak Number 14 Cyclotridecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.69 | 8.01 ng | 379091 | Chrysene-d12 | 15.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotridecane | 182 | C13H26 | 000295-02-3 | 95 |
| 2 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 93 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |
| 4 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 90 |
| 5 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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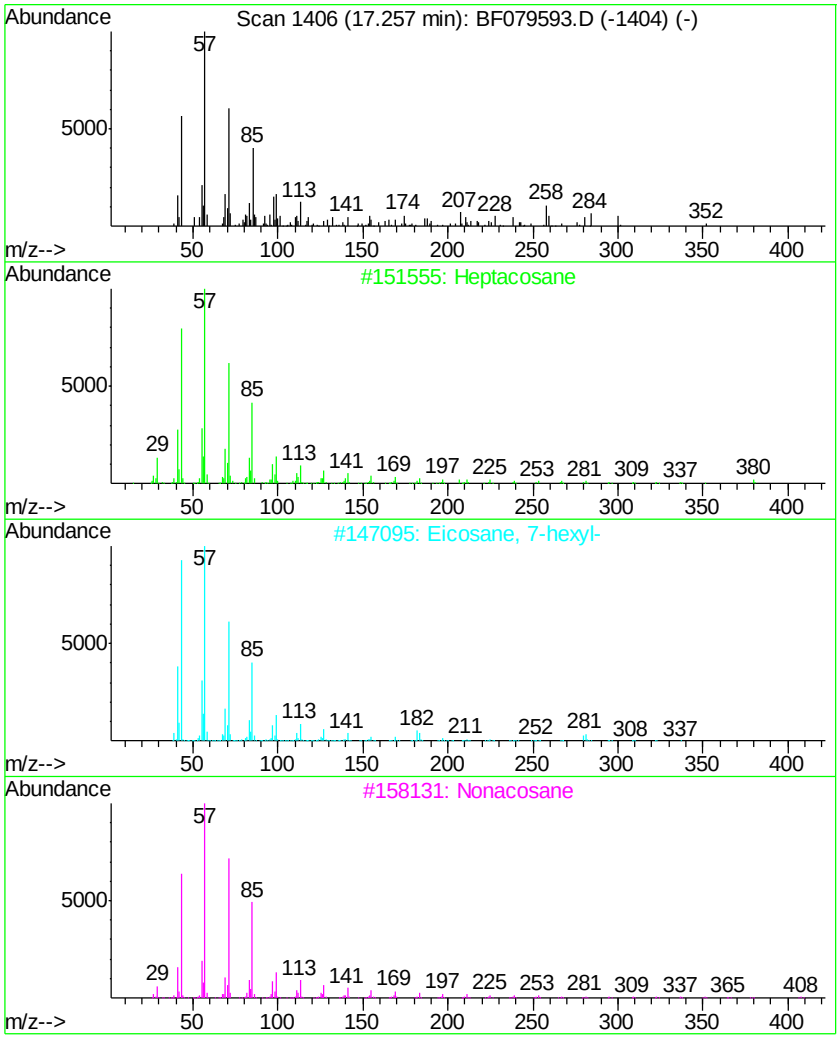
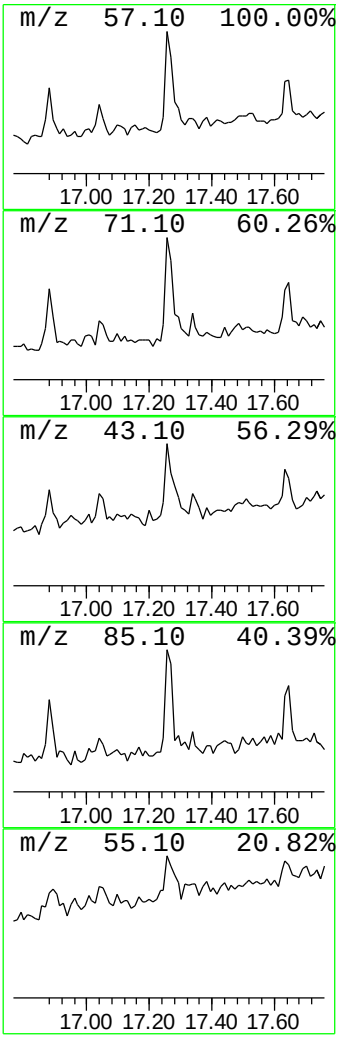
Peak Number 15 Heptacosane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.26 | 3.48 ng | 124603 | Perylene-d12 | 17.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 53 |
| 2 | Eicosane, 7-hexyl- | 366 | C26H54 | 055333-99-8 | 50 |
| 3 | Nonacosane | 408 | C29H60 | 000630-03-5 | 49 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 49 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 49 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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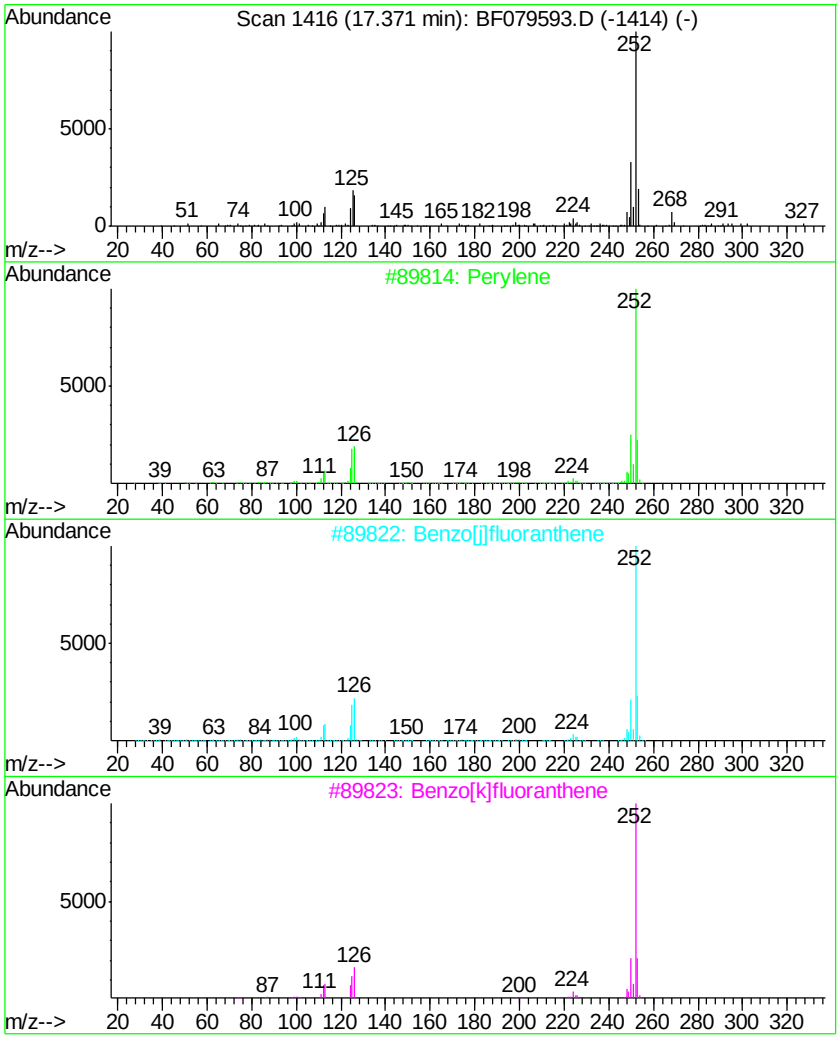
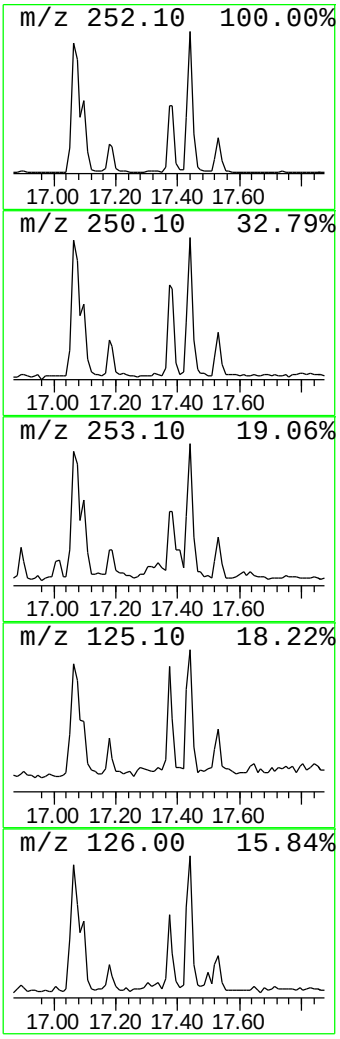
Peak Number 16 Perylene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.37 | 2.78 ng | 99507 | Perylene-d12 | 17.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 97 |
| 2 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 94 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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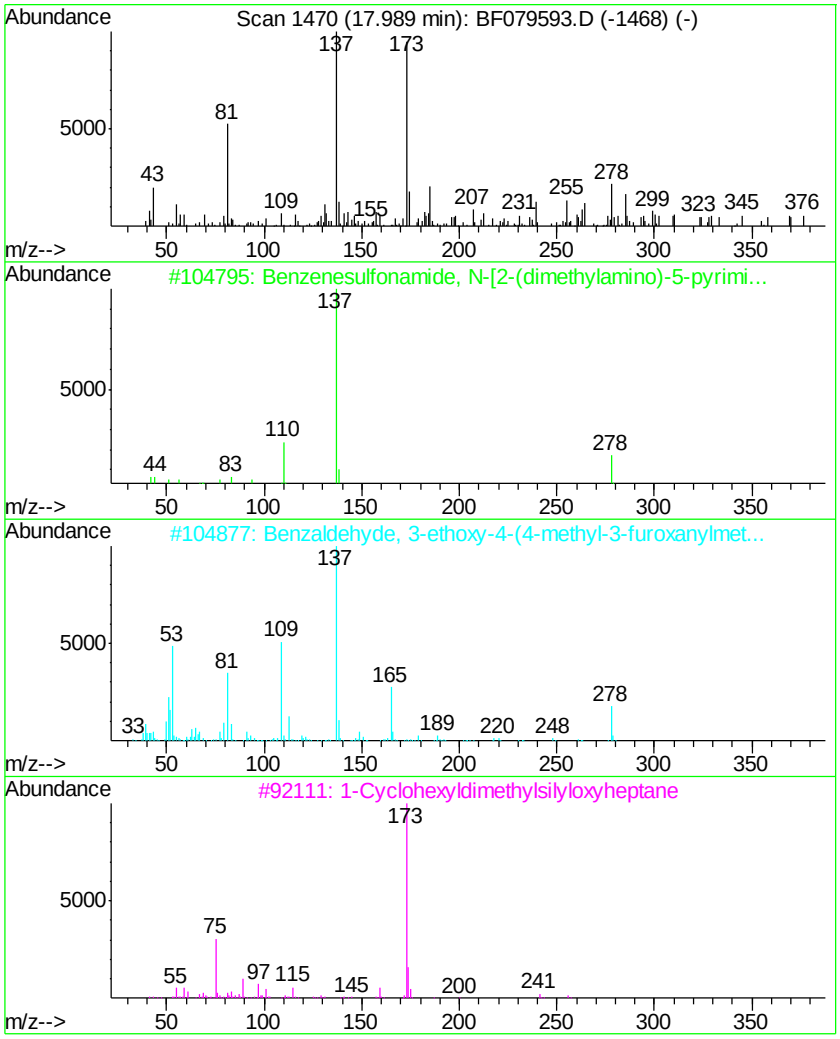
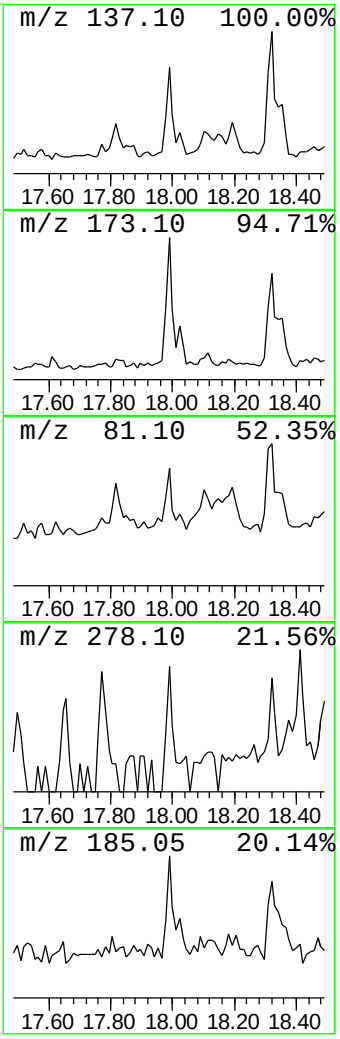
Peak Number 17 unknown17.99 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.99 | 2.35 ng | 83942 | Perylene-d12 | 17.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, N-[2-(dimeth... | 278 | C12H14N4O2S | 014233-47-7 | 27 |
| 2 | Benzaldehyde, 3-ethoxy-4-(4-meth... | 278 | C13H14N2O5 | 346456-54-0 | 27 |
| 3 | 1-Cyclohexyldimethylsilyloxyheptane | 256 | C15H32OSi | 1000281-95-9 | 22 |
| 4 | 4-Trifluoromethylbenzoic acid, 2... | 300 | C14H8ClF3O2 | 1000293-74-4 | 22 |
| 5 | Propenoic acid, 3-(2-thienyl)-, ... | 289 | C14H11NO4S | 284665-12-9 | 22 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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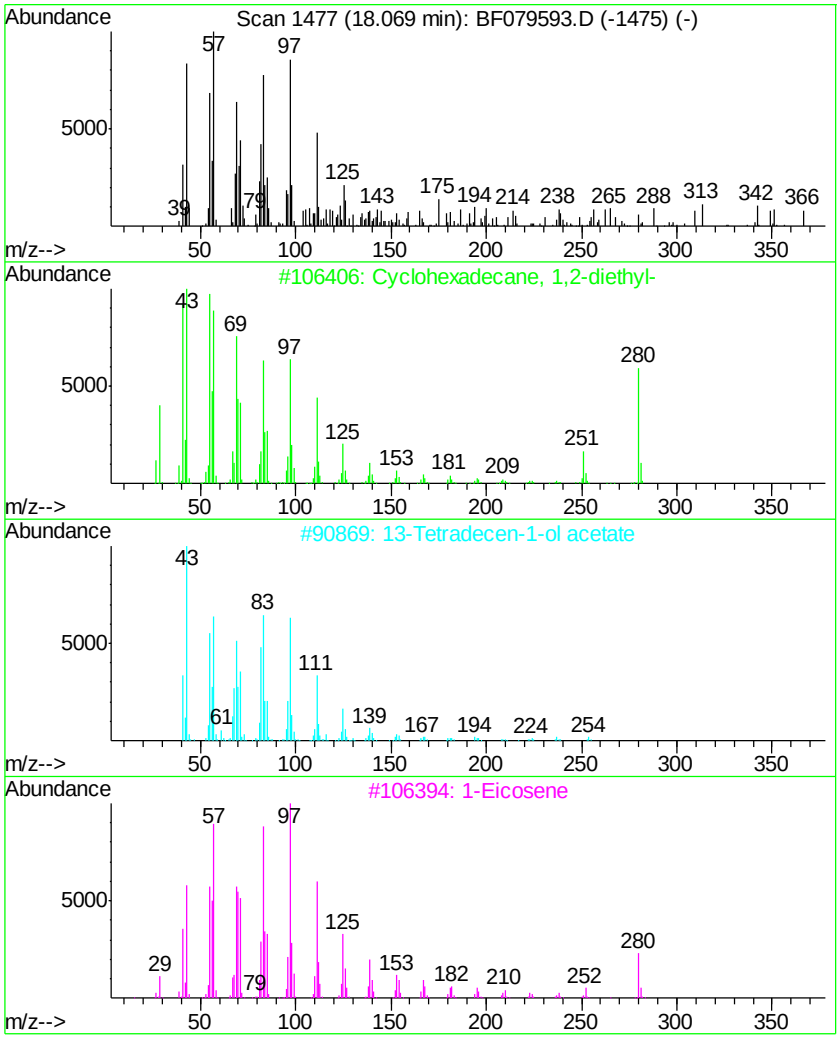
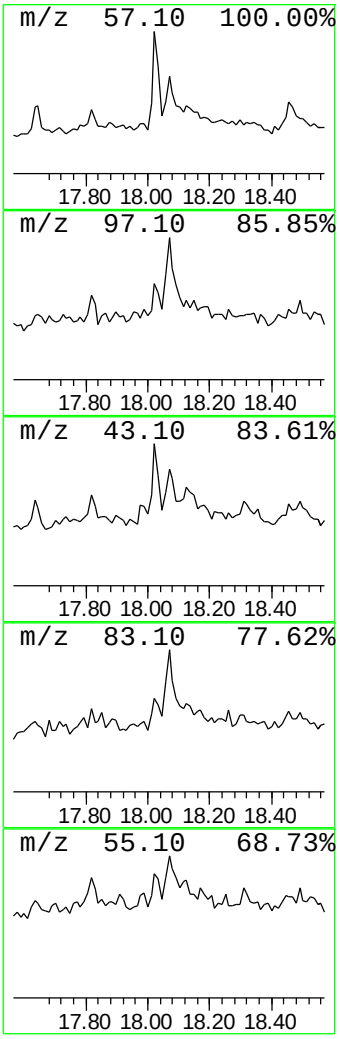
Peak Number 18 Cyclohexadecane, 1,2-diethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.07 | 2.66 ng | 95039 | Perylene-d12 | 17.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexadecane, 1,2-diethyl- | 280 | C20H40 | 1000155-85-3 | 95 |
| 2 | 13-Tetradecen-1-ol acetate | 254 | C16H30O2 | 056221-91-1 | 90 |
| 3 | 1-Eicosene | 280 | C20H40 | 003452-07-1 | 87 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 87 |
| 5 | Cycloeicosane | 280 | C20H40 | 000296-56-0 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

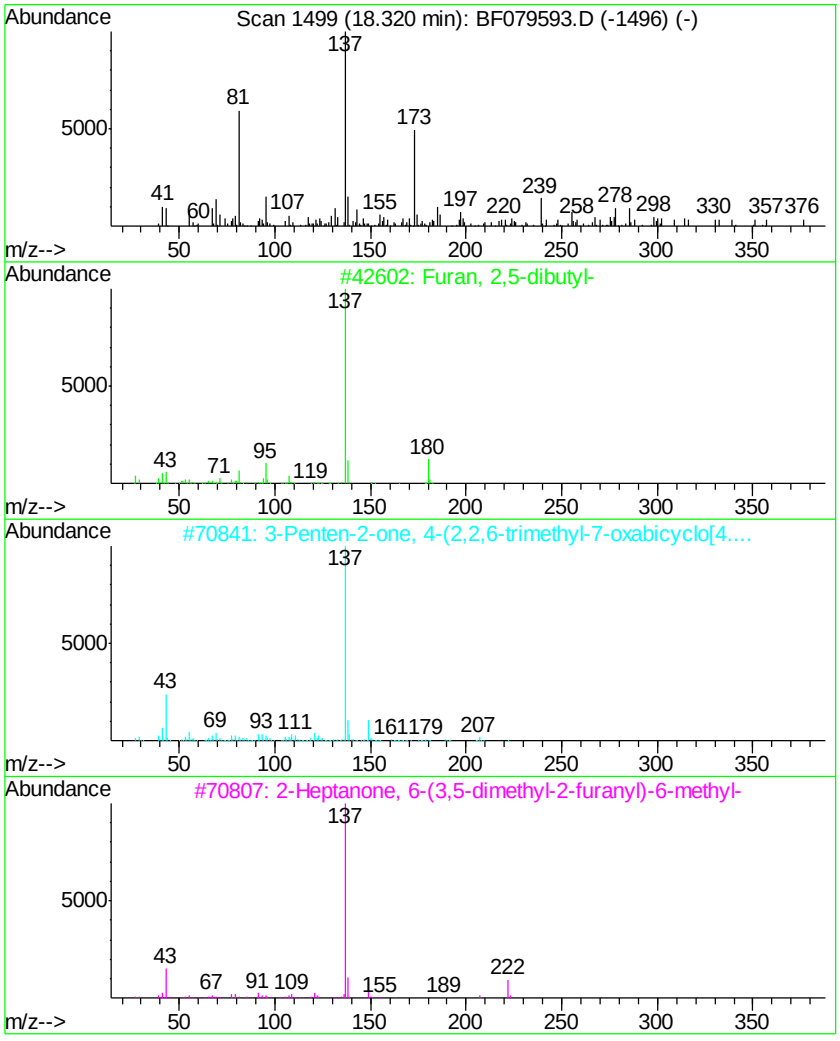
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

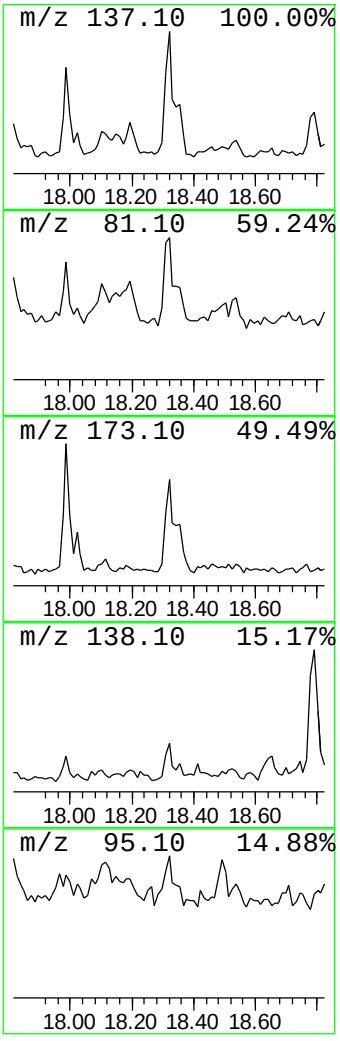
**********

Peak Number 19 unknown18.32 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.32 | 3.98 ng | 142295 | Perylene-d12 | 17.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Furan, 2,5-dibutyl- | 180 | C12H20O | 072636-53-4 | 35 |
| 2 | 3-Penten-2-one, 4-(2,2,6-trimeth... | 222 | C14H22O2 | 089128-12-1 | 35 |
| 3 | 2-Heptanone, 6-(3,5-dimethyl-2-f... | 222 | C14H22O2 | 090165-09-6 | 25 |
| 4 | 7-Isopropyl-2,10-dimethyl-1,5-di... | 274 | C14H26OS2 | 1000190-42-1 | 25 |
| 5 | 3-Hexen-1-ol, 6-(2,6,6-trimethyl... | 236 | C16H28O | 110202-07-8 | 25 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
Data File : BF079593.D
Acq On : 30 May 2015 8:59
Operator : TP/IZ
Sample : G2416-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RAMPTP-440SB3.1(6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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... | 4.66 | 4.9 | ng | 96603 | 1 | 6.95 | 394910 | 20.0 |
| unknown6.66 | 6.66 | 95.1 | ng | 1877780 | 1 | 6.95 | 394910 | 20.0 |
| Benzaldehyde, 3,5... | 13.28 | 6.6 | ng | 190368 | 4 | 12.53 | 578114 | 20.0 |
| 4-Amino-2-chloro-... | 13.52 | 2.8 | ng | 81546 | 4 | 12.53 | 578114 | 20.0 |
| 4b,8-Dimethyl-2-i... | 13.71 | 4.0 | ng | 116555 | 4 | 12.53 | 578114 | 20.0 |
| Indeno[2,1-a]inde... | 13.83 | 3.4 | ng | 98999 | 4 | 12.53 | 578114 | 20.0 |
| 10,18-Bisnorabiet... | 14.10 | 3.4 | ng | 99226 | 4 | 12.53 | 578114 | 20.0 |
| Phenanthrene, 1-m... | 14.67 | 7.0 | ng | 331309 | 5 | 15.79 | 946613 | 20.0 |
| Pyrene, 1-methyl- | 14.85 | 2.9 | ng | 137569 | 5 | 15.79 | 946613 | 20.0 |
| unknown15.27 | 15.27 | 2.3 | ng | 110184 | 5 | 15.79 | 946613 | 20.0 |
| Cyclotridecane | 15.69 | 8.0 | ng | 379091 | 5 | 15.79 | 946613 | 20.0 |
| Heptacosane | 17.26 | 3.5 | ng | 124603 | 6 | 17.50 | 715197 | 20.0 |
| Perylene | 17.37 | 2.8 | ng | 99507 | 6 | 17.50 | 715197 | 20.0 |
| unknown17.99 | 17.99 | 2.4 | ng | 83942 | 6 | 17.50 | 715197 | 20.0 |
| Cyclohexadecane, ... | 18.07 | 2.7 | ng | 95039 | 6 | 17.50 | 715197 | 20.0 |
| unknown18.32 | 18.32 | 4.0 | ng | 142295 | 6 | 17.50 | 715197 | 20.0 |