LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

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-BF091516.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 | 1.690 | 7 | 9 | 46 | rVB | 1020804 | 2369705 | 53.22% | 3.271% |
| 2 | 4.627 | 263 | 266 | 284 | rBV | 506102 | 803417 | 18.04% | 1.109% |
| 3 | 5.039 | 299 | 302 | 305 | rBV | 46000 | 90183 | 2.03% | 0.124% |
| 4 | 5.107 | 305 | 308 | 310 | rBV | 2234409 | 3265778 | 73.35% | 4.508% |
| 5 | 6.044 | 388 | 390 | 392 | rBV | 66787 | 97357 | 2.19% | 0.134% |
| 6 | 6.193 | 400 | 403 | 405 | rBV | 2914447 | 3199351 | 71.86% | 4.416% |
| 7 | 6.307 | 410 | 413 | 415 | rVB | 2520855 | 3308231 | 74.30% | 4.566% |
| 8 | 6.387 | 419 | 420 | 422 | rVB2 | 125519 | 133523 | 3.00% | 0.184% |
| 9 | 6.502 | 426 | 430 | 431 | rBV3 | 73939 | 198741 | 4.46% | 0.274% |
| 10 | 6.536 | 431 | 433 | 435 | rBV | 820500 | 883553 | 19.84% | 1.220% |
| 11 | 6.570 | 435 | 436 | 438 | rVB | 485598 | 389379 | 8.75% | 0.537% |
| 12 | 6.616 | 438 | 440 | 442 | rBV3 | 112782 | 207424 | 4.66% | 0.286% |
| 13 | 6.696 | 444 | 447 | 449 | rBV | 2082205 | 2846240 | 63.92% | 3.929% |
| 14 | 6.730 | 449 | 450 | 452 | rVB | 186885 | 163575 | 3.67% | 0.226% |
| 15 | 6.810 | 452 | 457 | 458 | rBV3 | 368736 | 831332 | 18.67% | 1.148% |
| 16 | 6.936 | 463 | 468 | 469 | rBV3 | 609402 | 944316 | 21.21% | 1.303% |
| 17 | 6.970 | 469 | 471 | 472 | rBV | 350308 | 302435 | 6.79% | 0.417% |
| 18 | 6.993 | 472 | 473 | 475 | rBV2 | 104741 | 113367 | 2.55% | 0.156% |
| 19 | 7.039 | 475 | 477 | 478 | rBV | 170737 | 291064 | 6.54% | 0.402% |
| 20 | 7.073 | 478 | 480 | 481 | rBV | 375949 | 668276 | 15.01% | 0.922% |
| 21 | 7.107 | 481 | 483 | 484 | rVB | 1917455 | 1954905 | 43.91% | 2.698% |
| 22 | 7.165 | 484 | 488 | 489 | rBV2 | 605031 | 1073408 | 24.11% | 1.482% |
| 23 | 7.199 | 489 | 491 | 494 | rVB3 | 525050 | 1128132 | 25.34% | 1.557% |
| 24 | 7.279 | 494 | 498 | 500 | rBV2 | 717941 | 1937804 | 43.52% | 2.675% |
| 25 | 7.359 | 503 | 505 | 508 | rBV2 | 1580102 | 2792293 | 62.71% | 3.854% |
| 26 | 7.416 | 508 | 510 | 512 | rBV2 | 445281 | 517028 | 11.61% | 0.714% |
| 27 | 7.473 | 512 | 515 | 518 | rBV4 | 1459413 | 2572990 | 57.79% | 3.552% |
| 28 | 7.553 | 520 | 522 | 523 | rBV2 | 501533 | 943920 | 21.20% | 1.303% |
| 29 | 7.610 | 525 | 527 | 530 | rBV3 | 572263 | 1088651 | 24.45% | 1.503% |
| 30 | 7.679 | 530 | 533 | 536 | rBV4 | 470405 | 1422134 | 31.94% | 1.963% |
| 31 | 7.736 | 536 | 538 | 542 | rBV4 | 702713 | 1993108 | 44.76% | 2.751% |
| 32 | 7.839 | 544 | 547 | 553 | rVV4 | 1132113 | 3758472 | 84.41% | 5.188% |
| 33 | 7.942 | 553 | 556 | 561 | rVV | 1422406 | 4452482 | 100.00% | 6.146% |
| 34 | 8.308 | 585 | 588 | 593 | rVB2 | 1468068 | 4240515 | 95.24% | 5.853% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

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-BF091516.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.559 | 958 | 960 | 962 | rVB2 | 1267992 | 1440606 | 32.36% | 1.989% |
| 36 | 12.902 | 987 | 990 | 991 | rVB2 | 1564508 | 1744379 | 39.18% | 2.408% |
| 37 | 13.017 | 998 | 1000 | 1002 | rBV2 | 565619 | 641200 | 14.40% | 0.885% |
| 38 | 13.234 | 1017 | 1019 | 1021 | rBV | 1749876 | 1649451 | 37.05% | 2.277% |
| 39 | 13.554 | 1045 | 1047 | 1052 | rVB2 | 1599760 | 2173035 | 48.81% | 3.000% |
| 40 | 13.668 | 1055 | 1057 | 1062 | rVB2 | 622909 | 1014366 | 22.78% | 1.400% |
| 41 | 13.862 | 1072 | 1074 | 1079 | rVB | 986480 | 1667495 | 37.45% | 2.302% |
| 42 | 14.171 | 1099 | 1101 | 1107 | rVB | 638033 | 1180824 | 26.52% | 1.630% |
| 43 | 14.262 | 1107 | 1109 | 1112 | rBV | 336646 | 626303 | 14.07% | 0.865% |
| 44 | 14.457 | 1124 | 1126 | 1130 | rVB | 368445 | 381759 | 8.57% | 0.527% |
| 45 | 14.982 | 1170 | 1172 | 1174 | rVB | 490389 | 616566 | 13.85% | 0.851% |
| 46 | 15.988 | 1258 | 1260 | 1263 | rVV | 194362 | 285824 | 6.42% | 0.395% |
| 47 | 16.045 | 1263 | 1265 | 1273 | rVB | 334525 | 746276 | 16.76% | 1.030% |
| 48 | 16.617 | 1311 | 1315 | 1319 | rVB | 488364 | 1079881 | 24.25% | 1.491% |
| 49 | 16.765 | 1325 | 1328 | 1336 | rVB3 | 429991 | 1177521 | 26.45% | 1.625% |
| 50 | 17.966 | 1428 | 1433 | 1439 | rBV | 839690 | 2331945 | 52.37% | 3.219% |
| 51 | 18.091 | 1439 | 1444 | 1453 | rVB2 | 792756 | 2197006 | 49.34% | 3.033% |
| 52 | 19.166 | 1533 | 1538 | 1547 | rVB2 | 154588 | 508684 | 11.42% | 0.702% |

Sum of corrected areas: 72446210

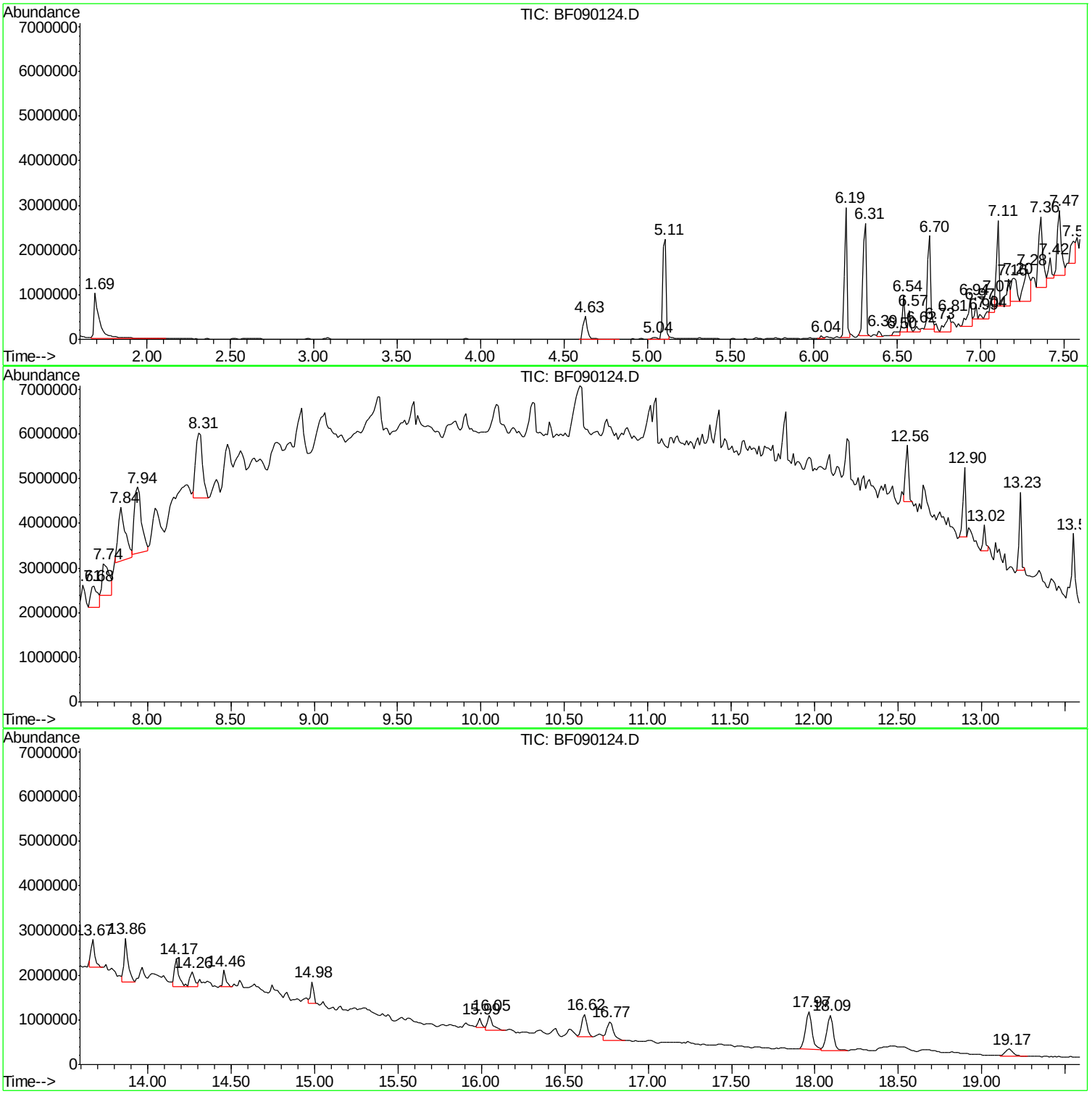
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

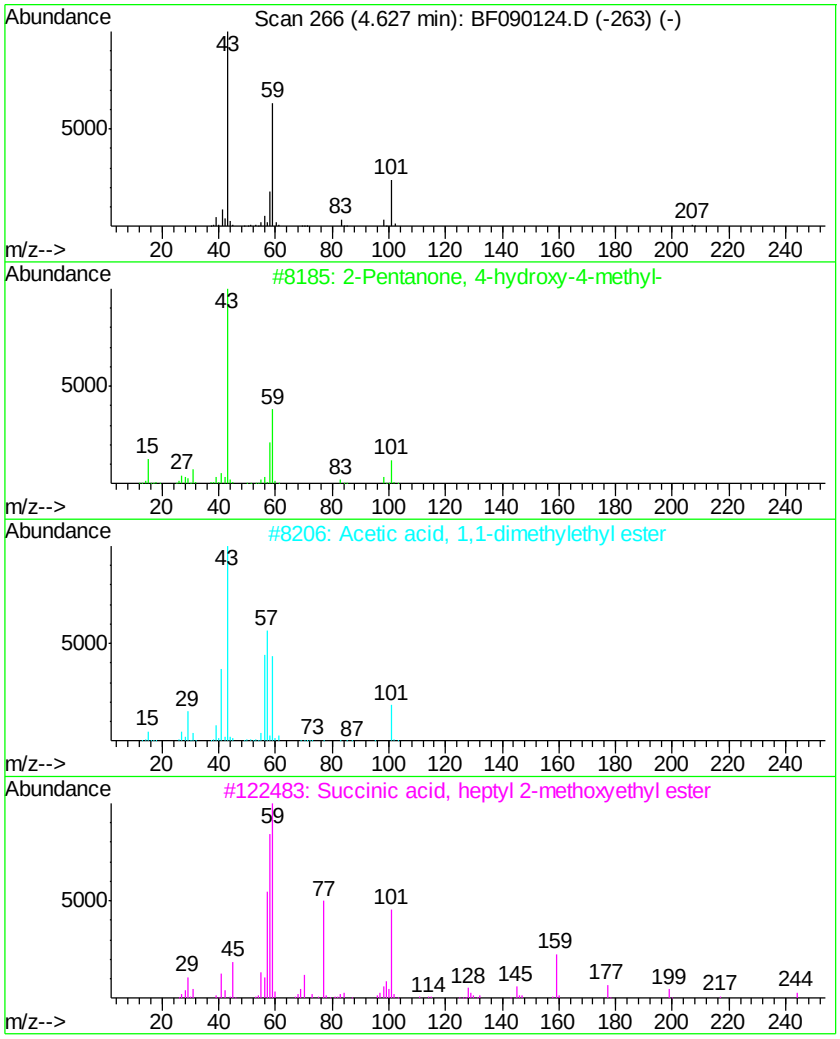
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

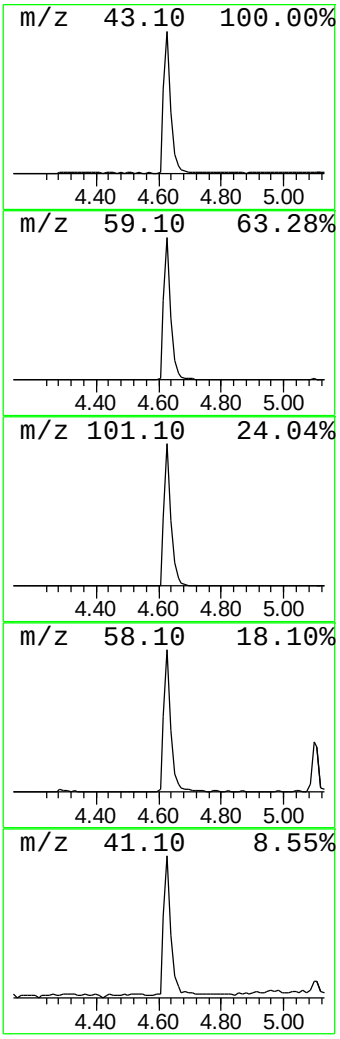
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.63 | 18.19 ng | 803417 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38 |
| 3 | Succinic acid, heptyl 2-methoxye... | 274 | C14H26O5 | 1000325-80-7 | 28 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 5 | Guanidine | 59 | CH5N3 | 000113-00-8 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

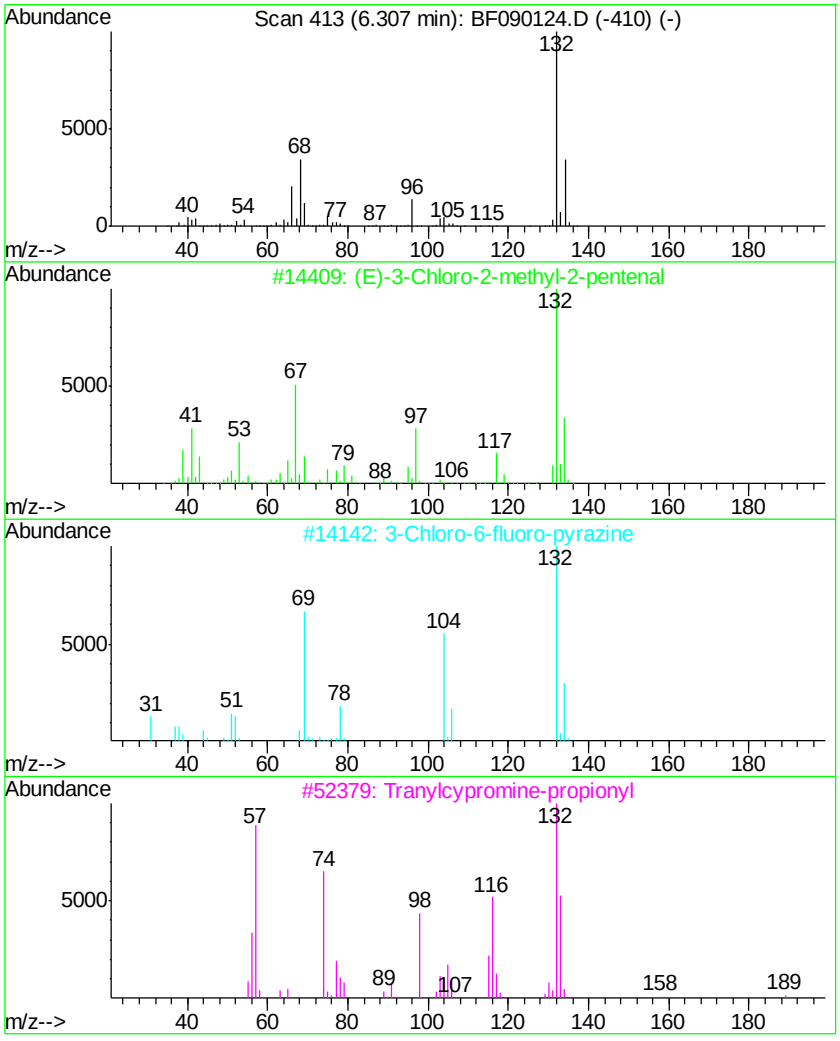
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

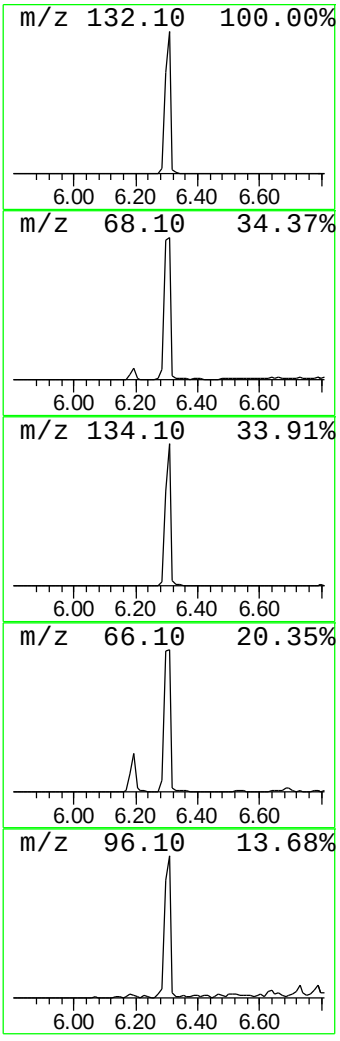
**********

Peak Number 3 unknown6.31 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.31 | 74.88 ng | 3308230 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 5 | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4 | 019485-35-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

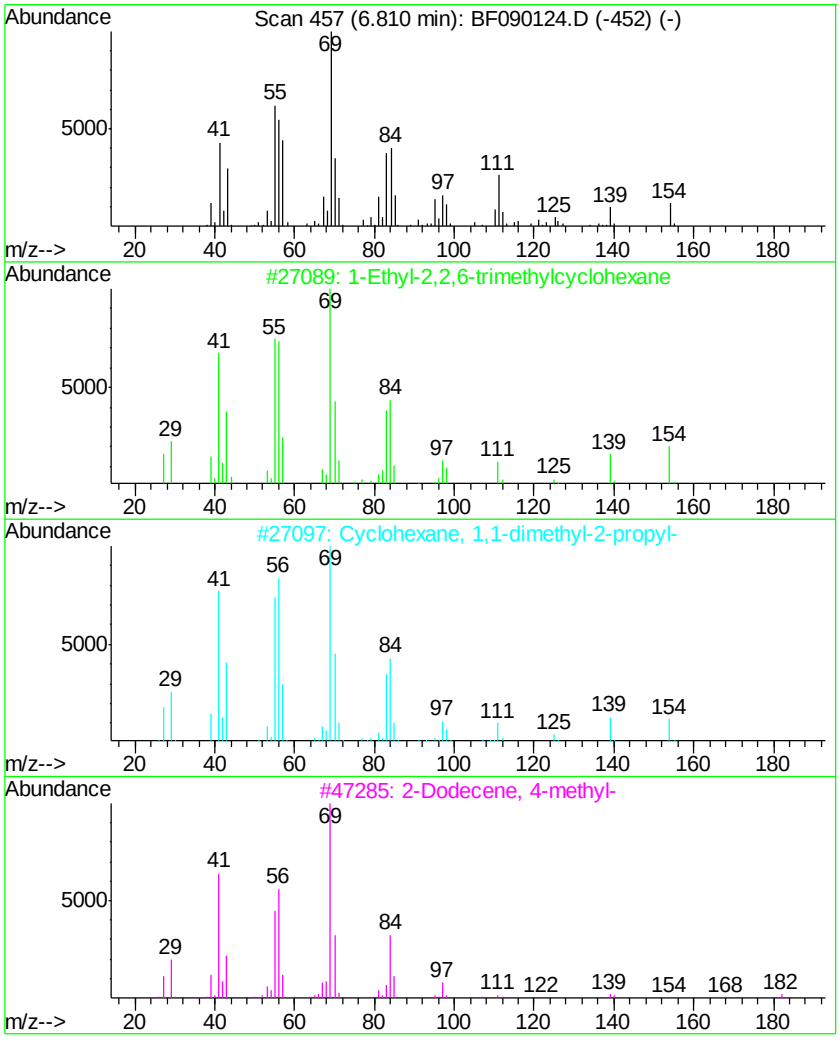
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

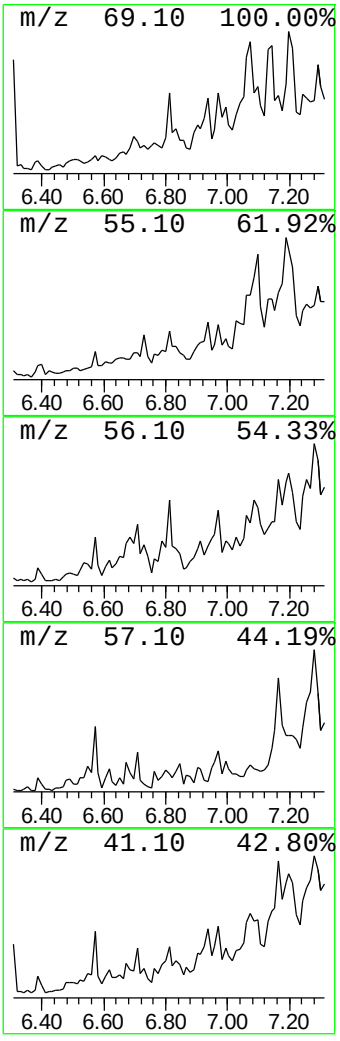
**********

Peak Number 5 1-Ethyl-2,2,6-trimethylcycl... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.81 | 18.82 ng | 831332 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-2,2,6-trimethylcyclohexane | 154 | C11H22 | 071186-27-1 | 95 |
| 2 | Cyclohexane, 1,1-dimethyl-2-propyl- | 154 | C11H22 | 081983-71-3 | 93 |
| 3 | 2-Dodecene, 4-methyl- | 182 | C13H26 | 056851-45-7 | 64 |
| 4 | 5-Undecene | 154 | C11H22 | 004941-53-1 | 59 |
| 5 | Cyclopentane, hexyl- | 154 | C11H22 | 004457-00-5 | 50 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

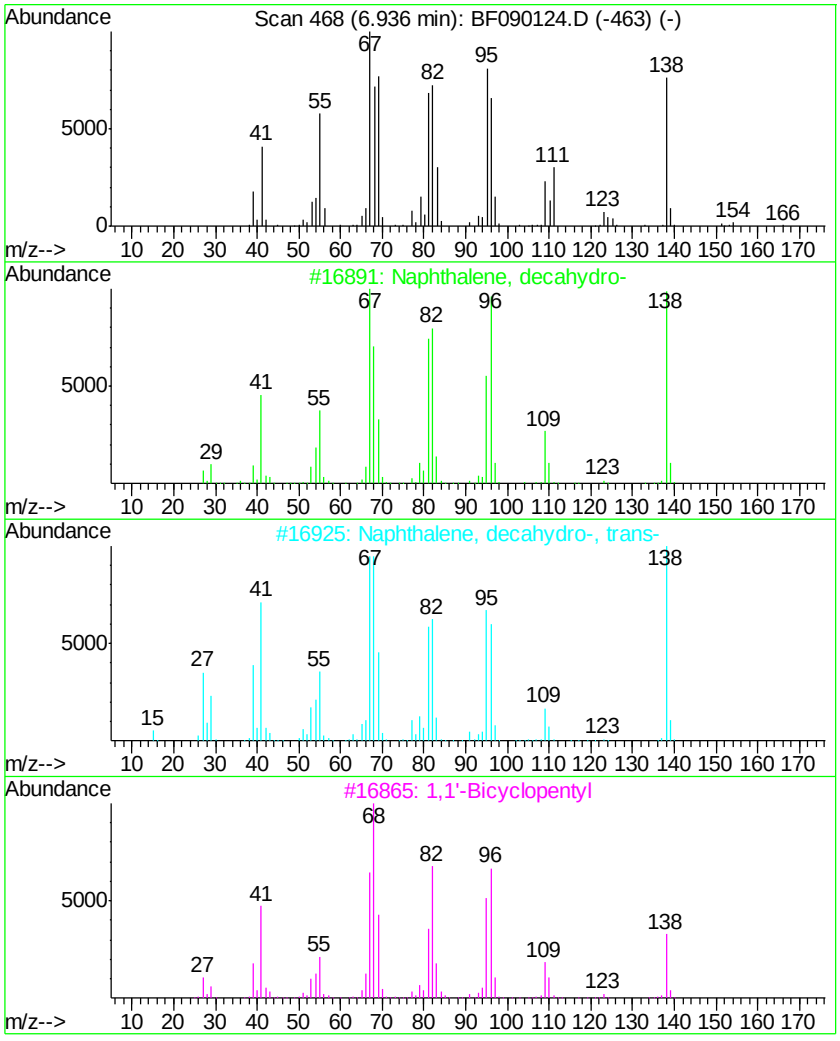
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

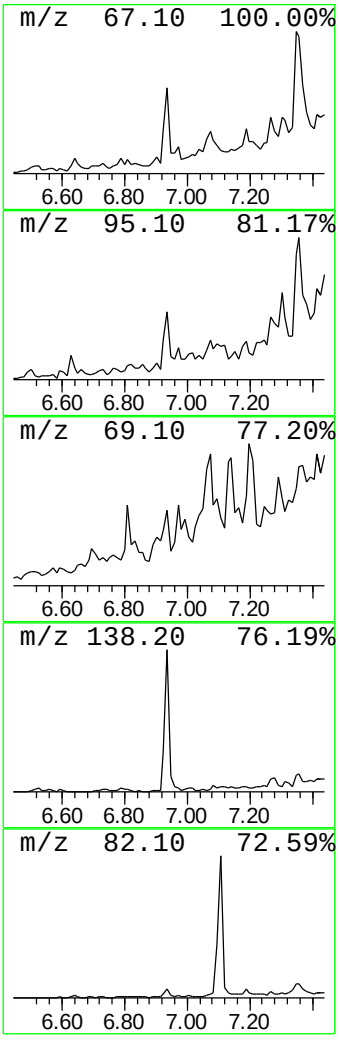
**********

Peak Number 6 Naphthalene, decahydro- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.94 | 21.38 ng | 944316 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 97 |
| 2 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 95 |
| 3 | 1,1'-Bicyclopentyl | 138 | C10H18 | 001636-39-1 | 90 |
| 4 | Cyclodecene | 138 | C10H18 | 003618-12-0 | 64 |
| 5 | Spiro[4.4]nonan-2-one | 138 | C9H14O | 034177-18-9 | 62 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

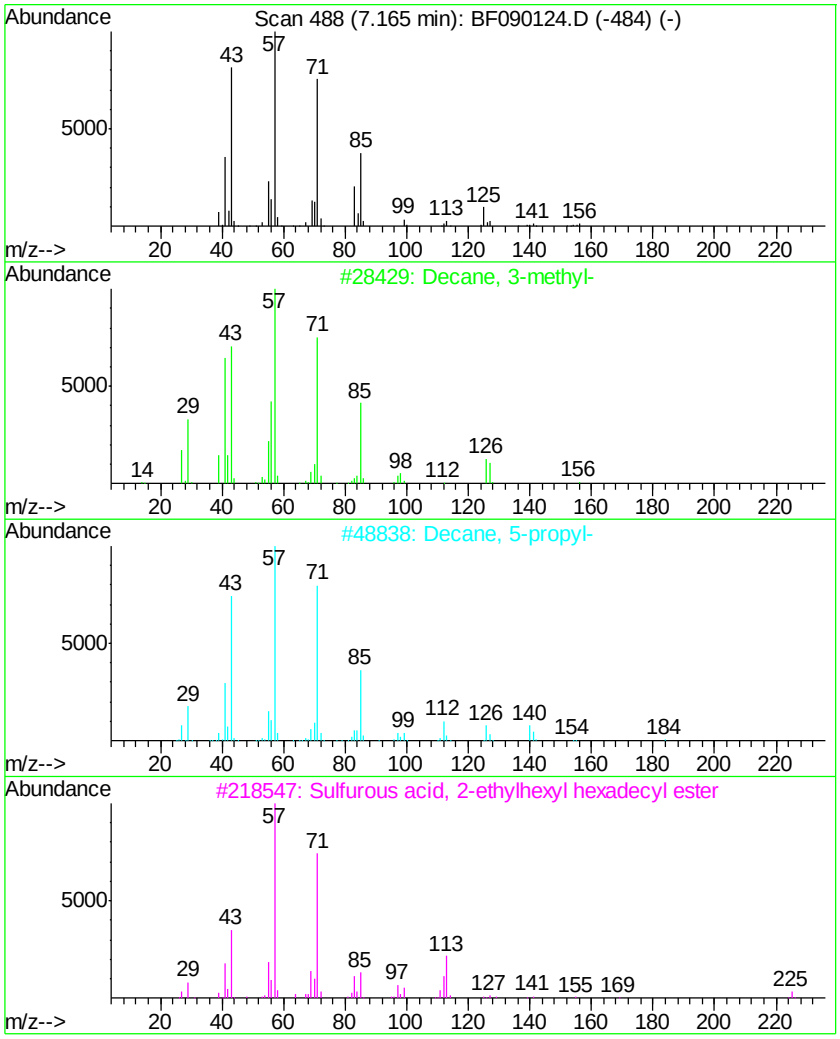
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

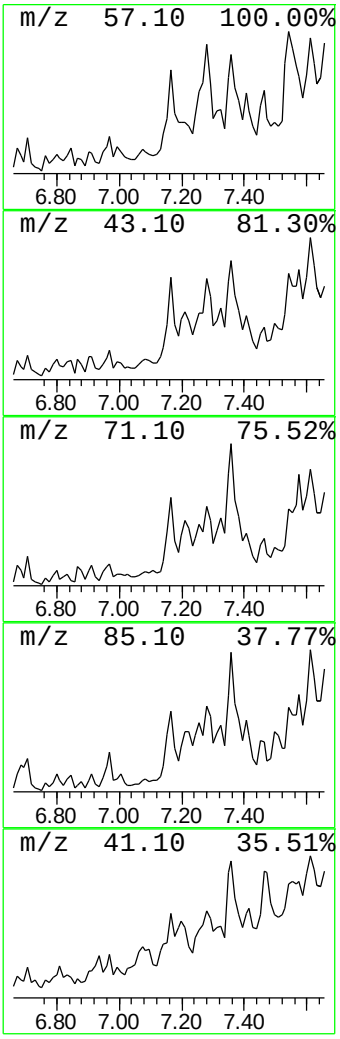
**********

Peak Number 7 Decane, 3-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.16 | 24.30 ng | 1073410 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 72 |
| 2 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 59 |
| 3 | Sulfurous acid, 2-ethylhexyl hex... | 418 | C24H50O3S | 1000309-19-9 | 59 |
| 4 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 59 |
| 5 | Sulfurous acid, hexyl pentyl ester | 236 | C11H24O3S | 1000309-14-1 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

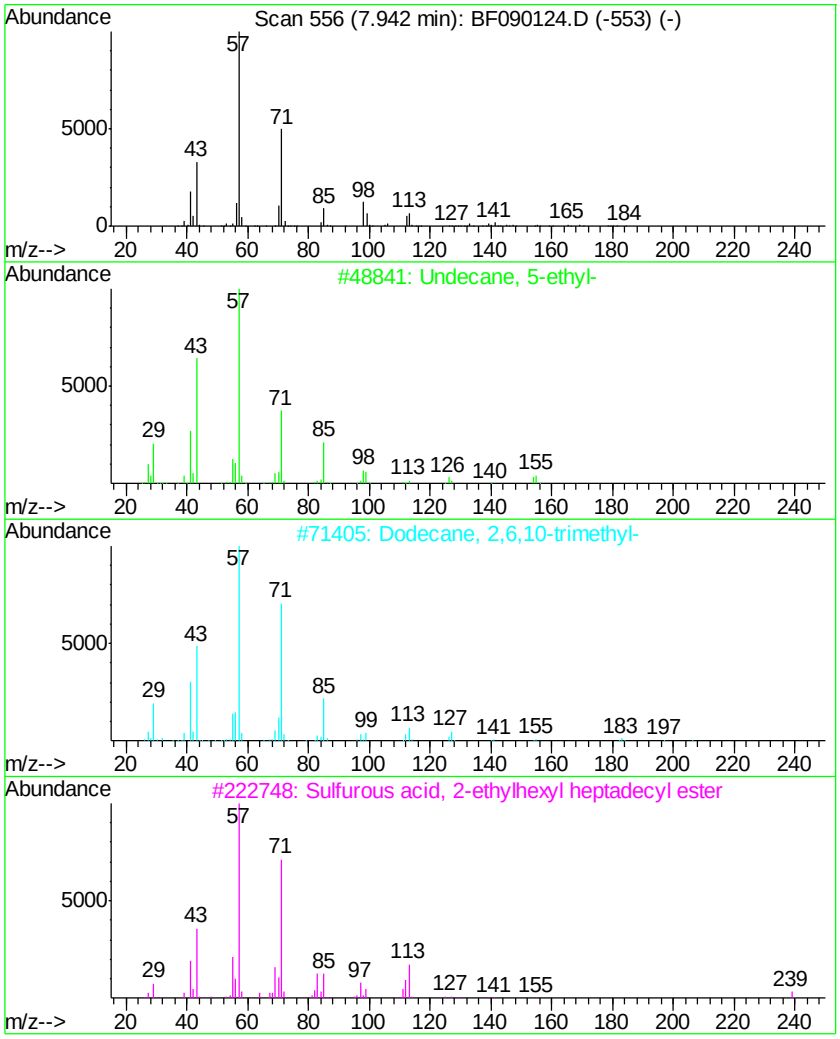
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

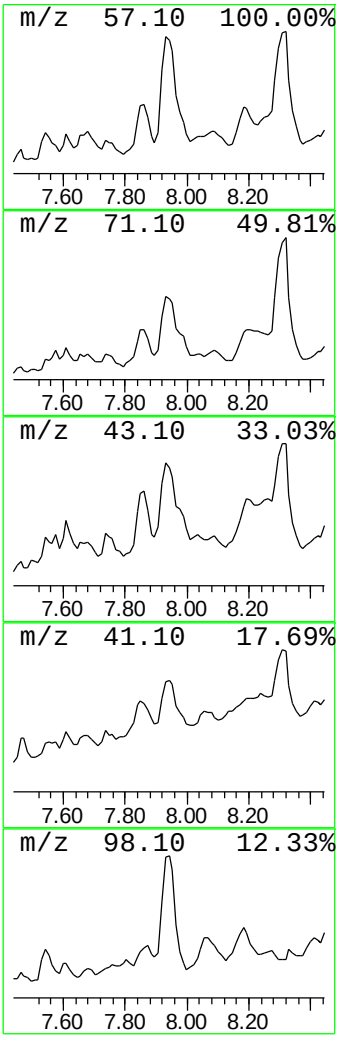
**********

Peak Number 8 Undecane, 5-ethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.94 | 23.69 ng | 4452480 | Naphthalene-d8 | 7.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 5-ethyl- | 184 | C13H28 | 017453-94-0 | 72 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 72 |
| 3 | Sulfurous acid, 2-ethylhexyl hep... | 432 | C25H52O3S | 1000309-20-0 | 72 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 72 |
| 5 | Sulfurous acid, 2-ethylhexyl hex... | 418 | C24H50O3S | 1000309-19-9 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

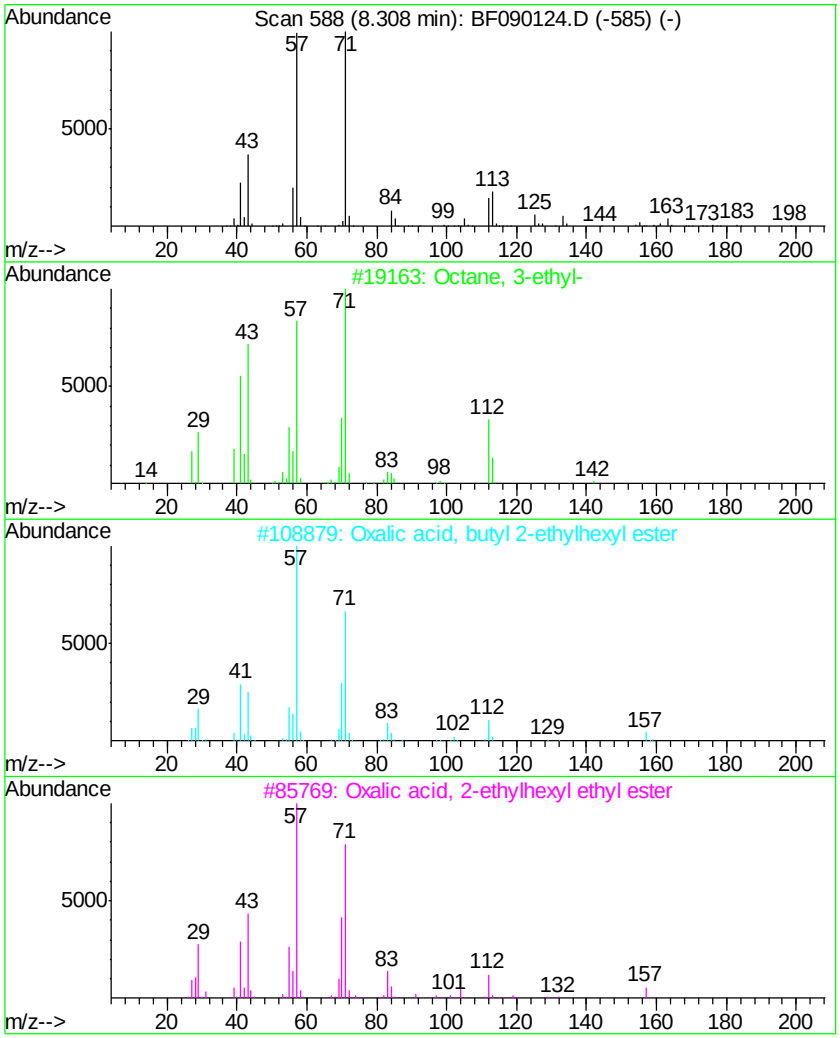
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

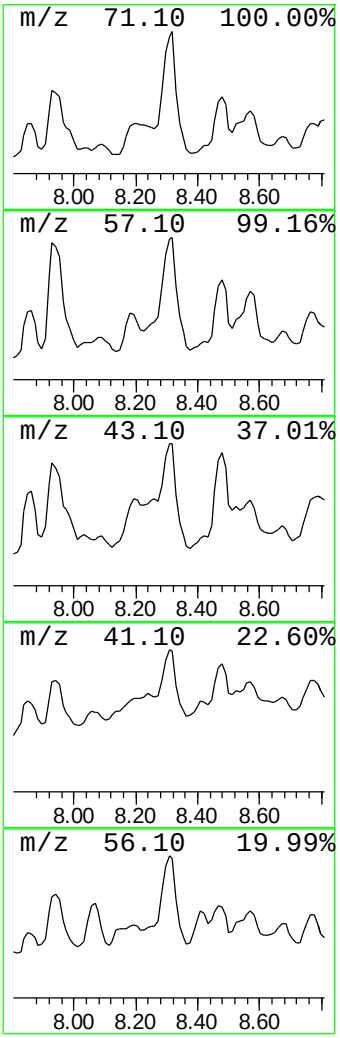
**********

Peak Number 9 Octane, 3-ethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.31 | 22.57 ng | 4240520 | Naphthalene-d8 | 7.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3-ethyl- | 142 | C10H22 | 005881-17-4 | 72 |
| 2 | Oxalic acid, butyl 2-ethylhexyl ... | 258 | C14H26O4 | 1000309-38-6 | 64 |
| 3 | Oxalic acid, 2-ethylhexyl ethyl ... | 230 | C12H22O4 | 1000309-38-4 | 64 |
| 4 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 64 |
| 5 | Nonane, 2,3-dimethyl- | 156 | C11H24 | 002884-06-2 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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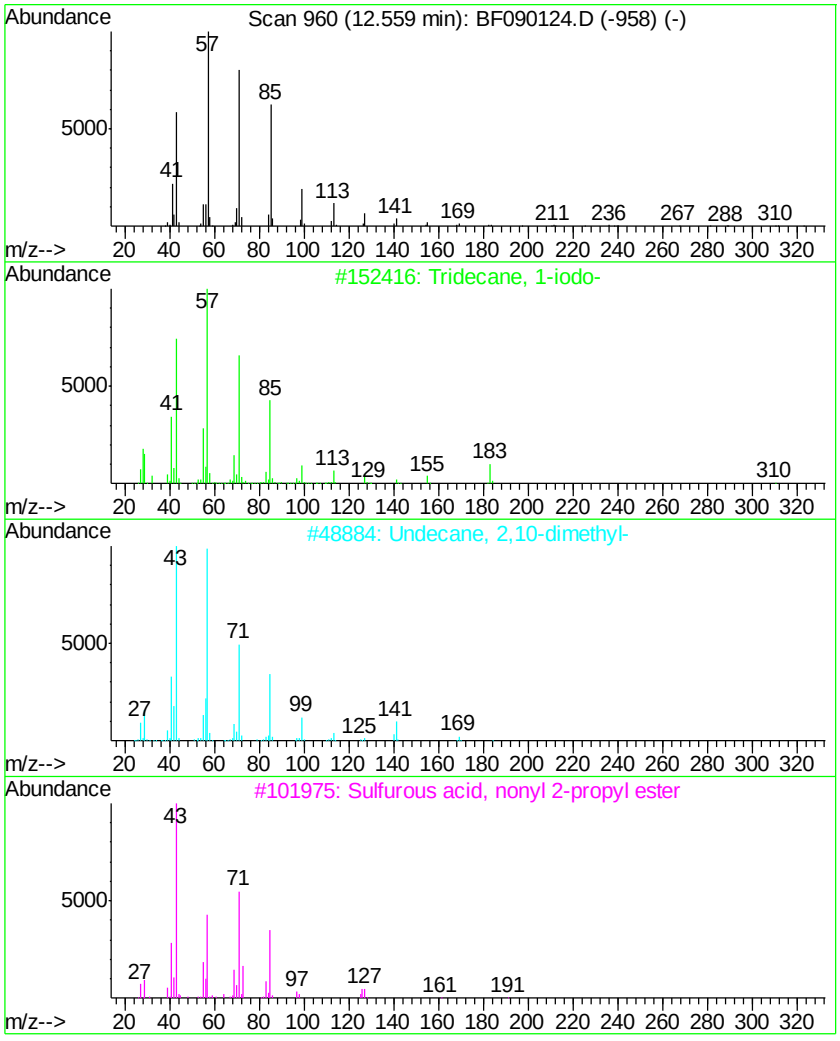
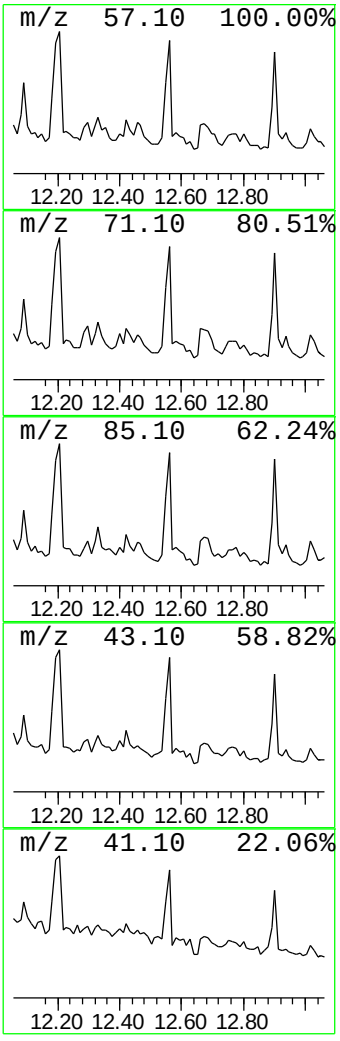
Peak Number 10 Tridecane, 1-iodo- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.56 | 28.40 ng | 1440610 | Chrysene-d12 | 13.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 90 |
| 2 | Undecane, 2,10-dimethyl- | 184 | C13H28 | 017301-27-8 | 78 |
| 3 | Sulfurous acid, nonyl 2-propyl e... | 250 | C12H26O3S | 1000309-12-0 | 64 |
| 4 | Undecane, 4,8-dimethyl- | 184 | C13H28 | 017301-33-6 | 59 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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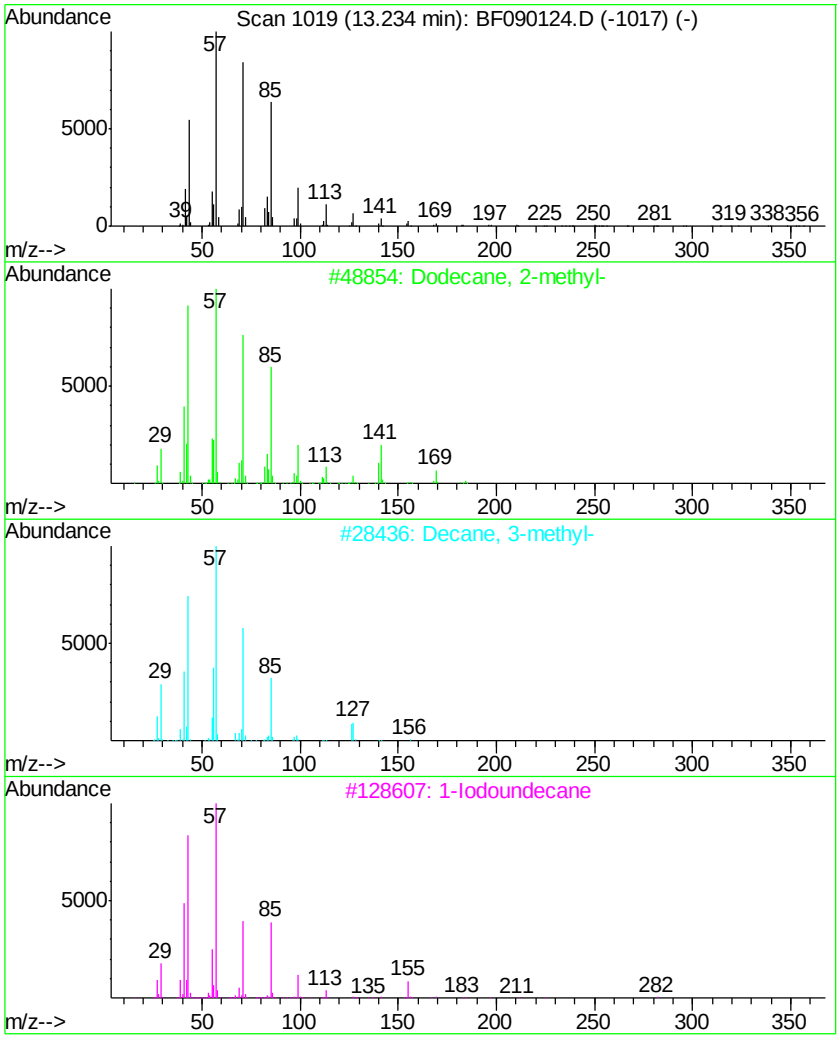
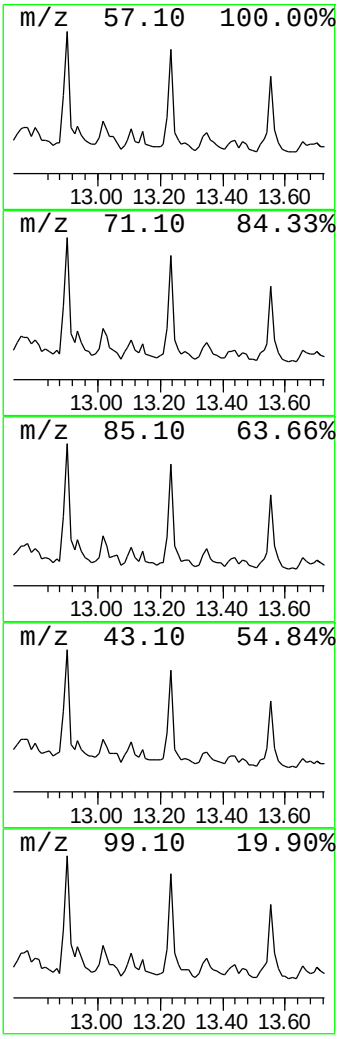
Peak Number 12 Dodecane, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.23 | 32.52 ng | 1649450 | Chrysene-d12 | 13.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 83 |
| 2 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 74 |
| 3 | 1-Iodoundecane | 282 | C11H23I | 004282-44-4 | 70 |
| 4 | Sulfurous acid, nonyl 2-propyl e... | 250 | C12H26O3S | 1000309-12-0 | 64 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 47 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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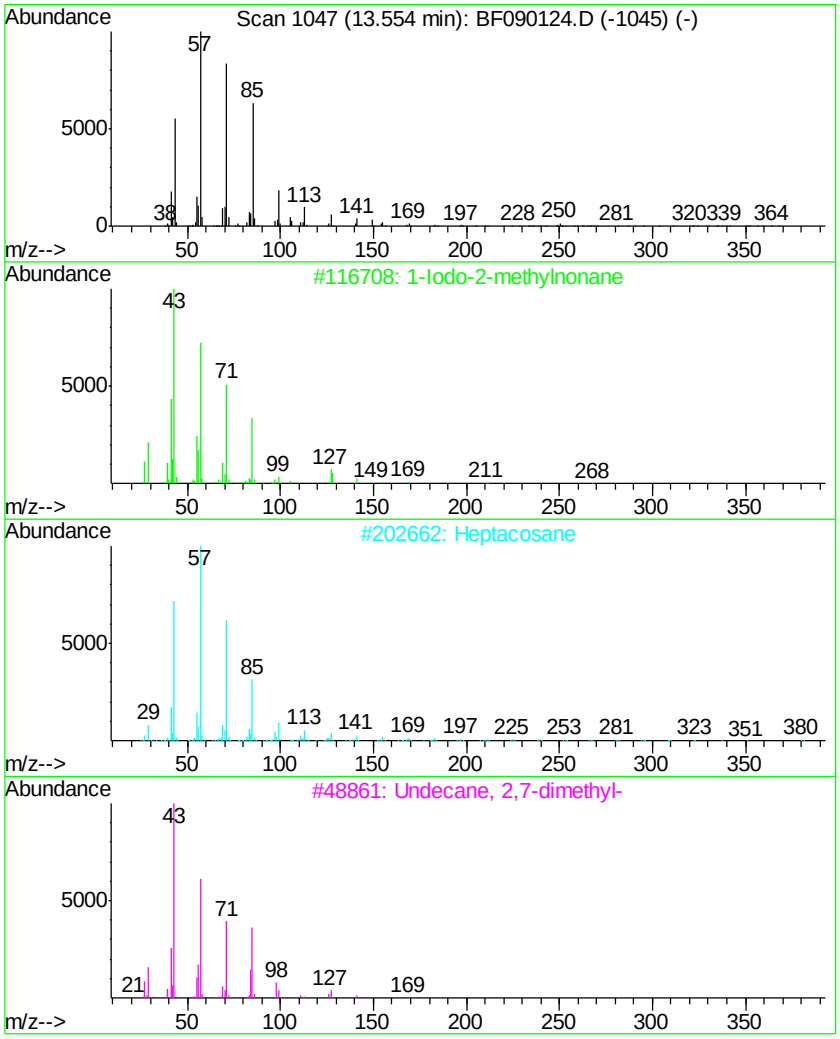
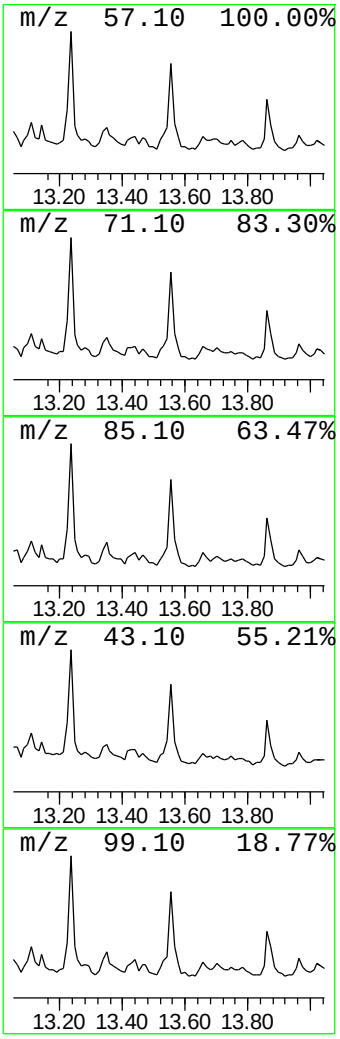
Peak Number 13 1-Iodo-2-methylnonane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.55 | 42.85 ng | 2173040 | Chrysene-d12 | 13.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Iodo-2-methylnonane | 268 | C10H21I | 1000101-47-9 | 80 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 3 | Undecane, 2,7-dimethyl- | 184 | C13H28 | 017301-24-5 | 72 |
| 4 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 64 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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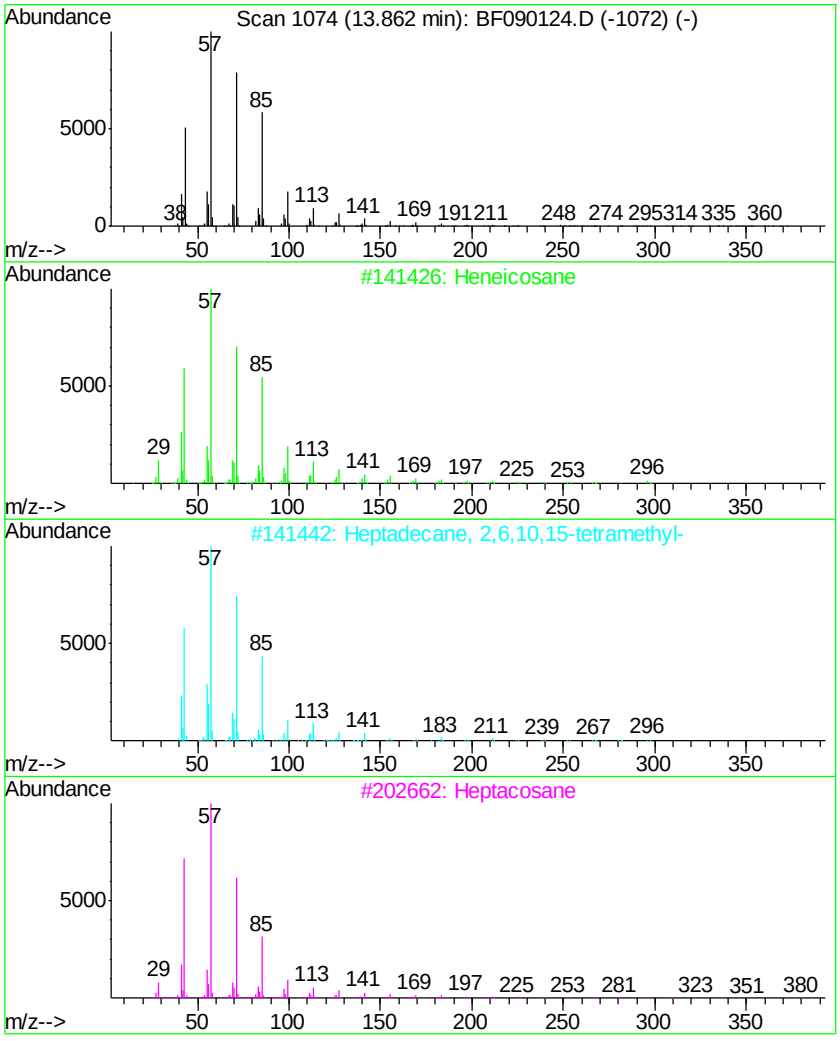
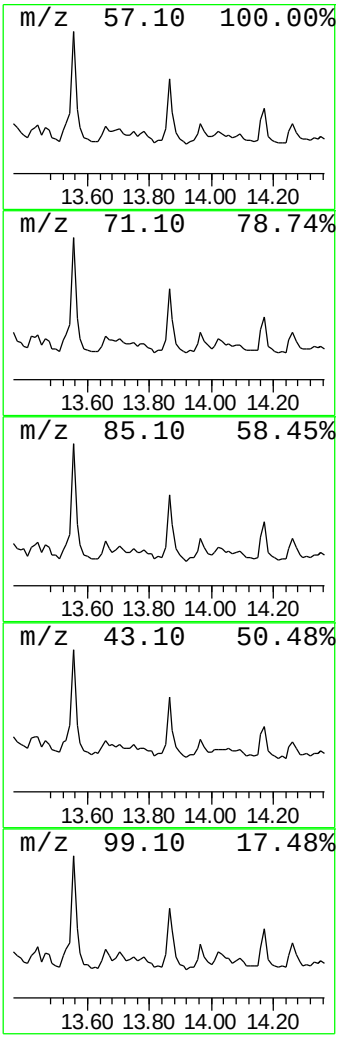
Peak Number 14 Heneicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 32.88 ng | 1667500 | Chrysene-d12 | 13.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 90 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 87 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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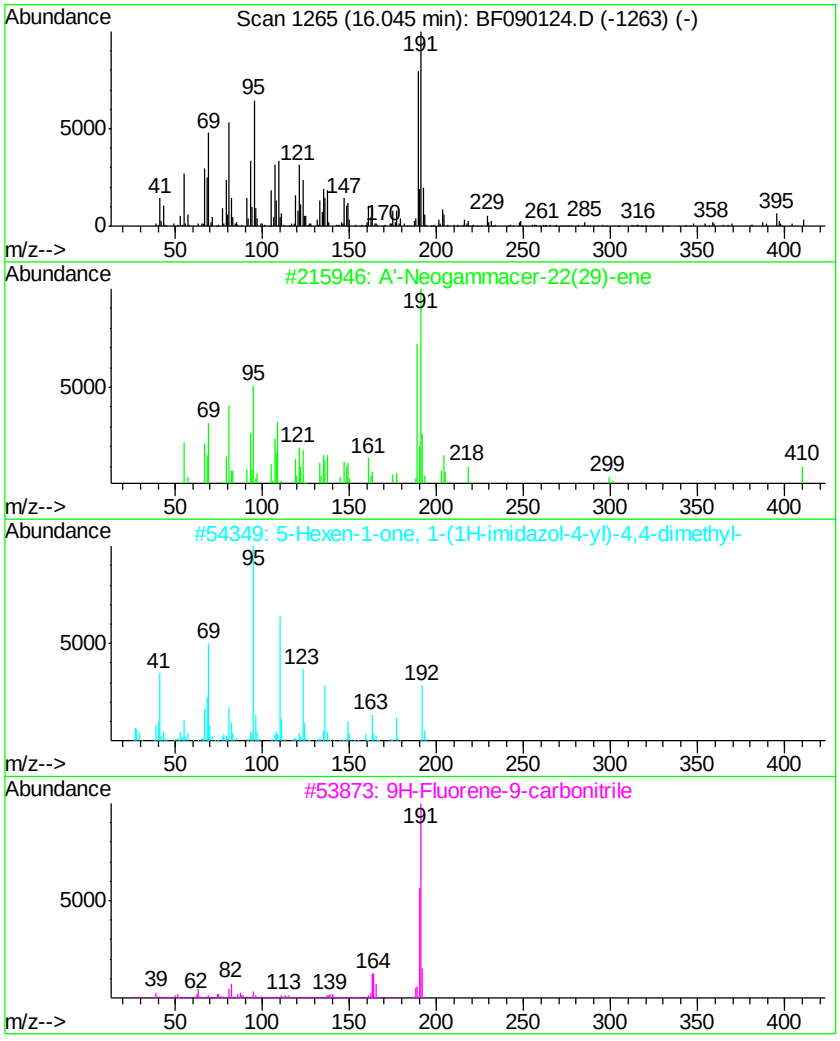
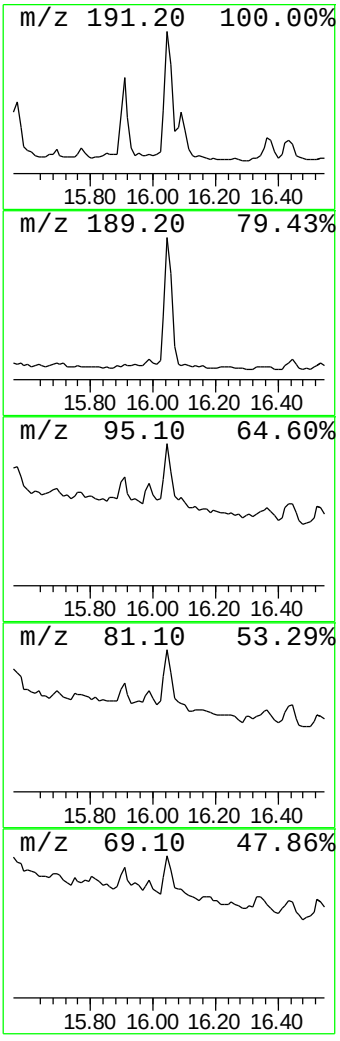
Peak Number 16 A'-Neogammacer-22(29)-ene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.05 | 24.21 ng | 746276 | Perylene-d12 | 14.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | A'-Neogammacer-22(29)-ene | 410 | C30H50 | 001615-91-4 | 78 |
| 2 | 5-Hexen-1-one, 1-(1H-imidazol-4-... | 192 | C11H16N2O | 069393-41-5 | 45 |
| 3 | 9H-Fluorene-9-carbonitrile | 191 | C14H9N | 001529-40-4 | 27 |
| 4 | Amiphenazole | 191 | C9H9N3S | 000490-55-1 | 25 |
| 5 | 2,3-Dimethyl-6-(3-methyl-butyryl... | 248 | C15H20O3 | 071940-30-2 | 22 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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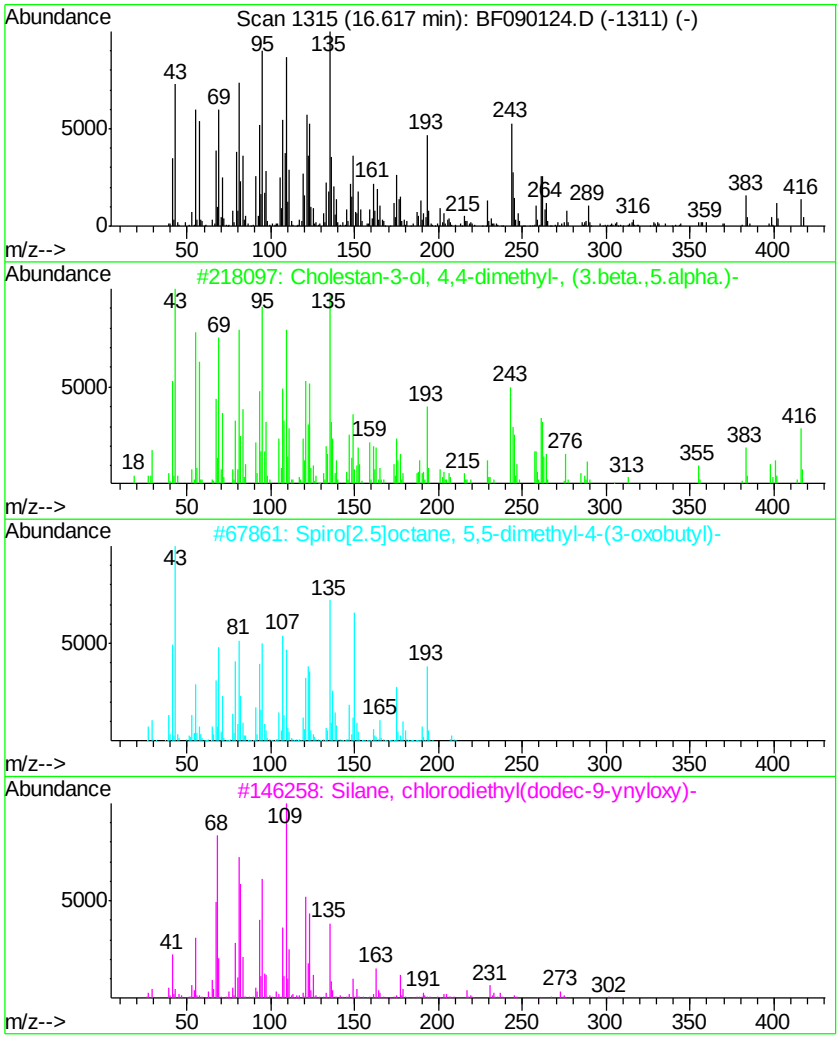
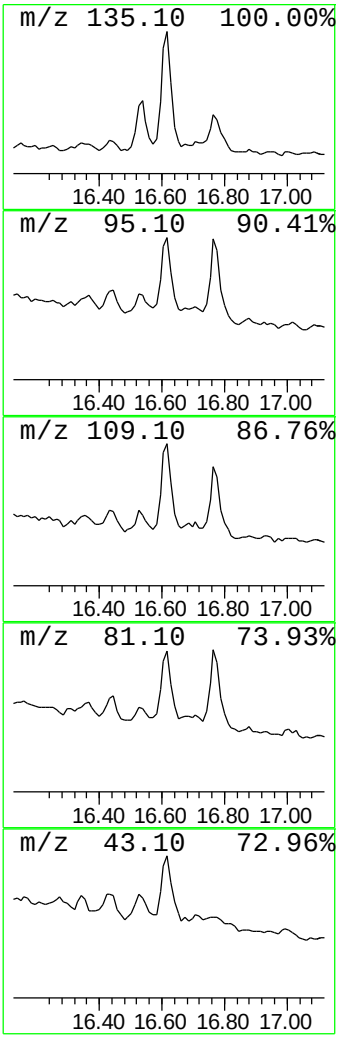
Peak Number 17 Cholestan-3-ol, 4,4-dimethy... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.62 | 35.03 ng | 1079880 | Perylene-d12 | 14.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-3-ol, 4,4-dimethyl-, (... | 416 | C29H52O | 002550-84-7 | 87 |
| 2 | Spiro[2.5]octane, 5,5-dimethyl-4... | 208 | C14H24O | 077143-32-9 | 38 |
| 3 | Silane, chlorodiethyl(dodec-9-yn... | 302 | C16H31ClOSi | 1000363-59-2 | 20 |
| 4 | 2-Fluorobenzylamine, N-ethyl-N-(... | 243 | C16H18FN | 1000310-31-3 | 18 |
| 5 | 6-Oxo-6H-pyran-3-carboxamide (3-... | 263 | C13H10ClNO3 | 351373-76-7 | 15 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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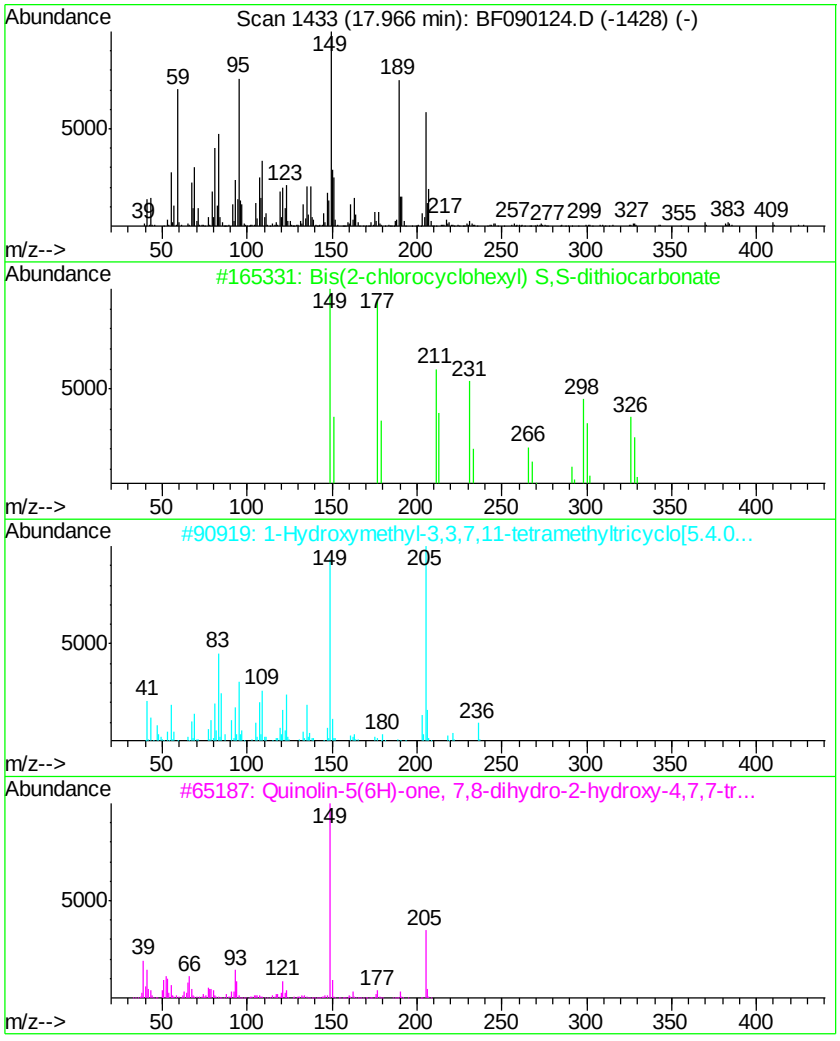
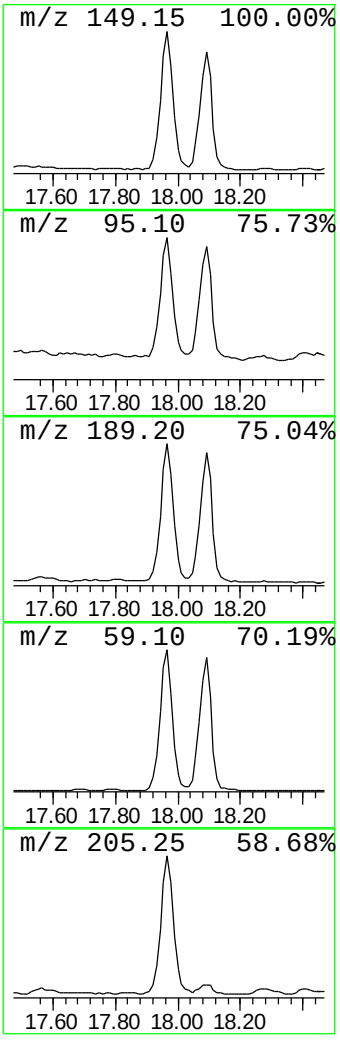
Peak Number 19 unknown17.97 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 75.64 ng | 2331950 | Perylene-d12 | 14.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bis(2-chlorocyclohexyl) S,S-dith... | 326 | C13H20Cl2OS2 | 105214-29-7 | 30 |
| 2 | 1-Hydroxymethyl-3,3,7,11-tetrame... | 236 | C16H28O | 1000140-33-0 | 27 |
| 3 | Quinolin-5(6H)-one, 7,8-dihydro-... | 205 | C12H15NO2 | 033831-79-7 | 22 |
| 4 | Phen-1,4-diol, 2,3-dimethyl-5-tr... | 206 | C9H9F3O2 | 1000127-49-8 | 14 |
| 5 | Acetophenone, 4-nitro-, 6-pyrazo... | 273 | C12H11N5O3 | 1000260-38-0 | 11 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091916\
Data File : BF090124.D
Acq On : 19 Sep 2016 17:08
Operator : UM/SJ
Sample : H4847-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 1050

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091516.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... | 4.63 | 18.2 | ng | 803417 | 1 | 6.54 | 883553 | 20.0 |
| unknown6.31 | 6.31 | 74.9 | ng | 3308230 | 1 | 6.54 | 883553 | 20.0 |
| 1-Ethyl-2,2,6-tri... | 6.81 | 18.8 | ng | 831332 | 1 | 6.54 | 883553 | 20.0 |
| Naphthalene, deca... | 6.94 | 21.4 | ng | 944316 | 1 | 6.54 | 883553 | 20.0 |
| Decane, 3-methyl- | 7.16 | 24.3 | ng | 1073410 | 1 | 6.54 | 883553 | 20.0 |
| Undecane, 5-ethyl- | 7.94 | 23.7 | ng | 4452480 | 2 | 7.83 | 3758470 | 20.0 |
| Octane, 3-ethyl- | 8.31 | 22.6 | ng | 4240520 | 2 | 7.83 | 3758470 | 20.0 |
| Tridecane, 1-iodo- | 12.56 | 28.4 | ng | 1440610 | 5 | 13.67 | 1014370 | 20.0 |
| Dodecane, 2-methyl- | 13.23 | 32.5 | ng | 1649450 | 5 | 13.67 | 1014370 | 20.0 |
| 1-Iodo-2-methylno... | 13.55 | 42.9 | ng | 2173040 | 5 | 13.67 | 1014370 | 20.0 |
| Heneicosane | 13.86 | 32.9 | ng | 1667500 | 5 | 13.67 | 1014370 | 20.0 |
| A'-Neogammacer-22... | 16.05 | 24.2 | ng | 746276 | 6 | 14.98 | 616566 | 20.0 |
| Cholestan-3-ol, 4... | 16.62 | 35.0 | ng | 1079880 | 6 | 14.98 | 616566 | 20.0 |
| unknown17.97 | 17.97 | 75.6 | ng | 2331950 | 6 | 14.98 | 616566 | 20.0 |