LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

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-BF122116.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 | 4.597 | 257 | 259 | 269 | rBV | 83458 | 161840 | 14.66% | 1.310% |
| 2 | 5.100 | 301 | 303 | 317 | rVB | 266307 | 417563 | 37.82% | 3.379% |
| 3 | 6.197 | 397 | 399 | 405 | rBV | 259421 | 453993 | 41.12% | 3.674% |
| 4 | 6.289 | 405 | 407 | 412 | rVB | 419511 | 479029 | 43.39% | 3.876% |
| 5 | 6.506 | 424 | 426 | 429 | rBV | 646834 | 688834 | 62.39% | 5.574% |
| 6 | 6.666 | 438 | 440 | 444 | rVB | 411156 | 386240 | 34.99% | 3.125% |
| 7 | 6.895 | 458 | 460 | 462 | rVB3 | 26309 | 32506 | 2.94% | 0.263% |
| 8 | 7.032 | 465 | 472 | 474 | rVV5 | 21595 | 53298 | 4.83% | 0.431% |
| 9 | 7.089 | 474 | 477 | 481 | rVV | 246590 | 289203 | 26.20% | 2.340% |
| 10 | 7.146 | 481 | 482 | 486 | rVB2 | 20766 | 38025 | 3.44% | 0.308% |
| 11 | 7.317 | 495 | 497 | 500 | rVB | 83938 | 89330 | 8.09% | 0.723% |
| 12 | 7.386 | 500 | 503 | 505 | rVV | 26358 | 43626 | 3.95% | 0.353% |
| 13 | 7.432 | 505 | 507 | 510 | rVB2 | 107335 | 121007 | 10.96% | 0.979% |
| 14 | 7.558 | 516 | 518 | 520 | rBV2 | 18243 | 38465 | 3.48% | 0.311% |
| 15 | 7.706 | 526 | 531 | 534 | rBV3 | 55829 | 145071 | 13.14% | 1.174% |
| 16 | 7.798 | 537 | 539 | 541 | rVV | 893111 | 936179 | 84.80% | 7.576% |
| 17 | 7.843 | 541 | 543 | 545 | rVB2 | 32303 | 45297 | 4.10% | 0.367% |
| 18 | 7.900 | 545 | 548 | 549 | rBV2 | 25389 | 44574 | 4.04% | 0.361% |
| 19 | 7.969 | 552 | 554 | 555 | rBV2 | 34794 | 33099 | 3.00% | 0.268% |
| 20 | 8.015 | 555 | 558 | 560 | rVB2 | 47438 | 80986 | 7.34% | 0.655% |
| 21 | 8.083 | 560 | 564 | 566 | rBV3 | 74664 | 156602 | 14.18% | 1.267% |
| 22 | 8.118 | 566 | 567 | 568 | rBV | 34958 | 39025 | 3.53% | 0.316% |
| 23 | 8.255 | 576 | 579 | 581 | rVB2 | 91099 | 149552 | 13.55% | 1.210% |
| 24 | 8.300 | 581 | 583 | 585 | rBV3 | 58937 | 90250 | 8.17% | 0.730% |
| 25 | 8.346 | 585 | 587 | 591 | rVB3 | 76440 | 102037 | 9.24% | 0.826% |
| 26 | 8.426 | 591 | 594 | 595 | rBV3 | 74981 | 143726 | 13.02% | 1.163% |
| 27 | 8.472 | 596 | 598 | 603 | rVB4 | 73143 | 191340 | 17.33% | 1.548% |
| 28 | 8.689 | 613 | 617 | 619 | rBV4 | 48052 | 135284 | 12.25% | 1.095% |
| 29 | 8.792 | 623 | 626 | 627 | rVV3 | 73251 | 137709 | 12.47% | 1.114% |
| 30 | 8.883 | 631 | 634 | 636 | rBV | 501446 | 581485 | 52.67% | 4.705% |
| 31 | 8.952 | 637 | 640 | 643 | rBV3 | 143928 | 281430 | 25.49% | 2.277% |
| 32 | 9.158 | 656 | 658 | 659 | rVB2 | 55596 | 41502 | 3.76% | 0.336% |
| 33 | 9.249 | 665 | 666 | 668 | rBV | 127776 | 170978 | 15.49% | 1.384% |
| 34 | 9.363 | 674 | 676 | 678 | rBV2 | 54571 | 51305 | 4.65% | 0.415% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.409 | 678 | 680 | 681 | rBV2 | 91196 | 116229 | 10.53% | 0.941% |
| 36 | 9.455 | 683 | 684 | 686 | rVB | 160960 | 125489 | 11.37% | 1.015% |
| 37 | 9.501 | 686 | 688 | 689 | rBV2 | 70901 | 129175 | 11.70% | 1.045% |
| 38 | 9.523 | 689 | 690 | 691 | rVV | 119792 | 146002 | 13.22% | 1.181% |
| 39 | 9.546 | 691 | 692 | 694 | rVB | 889977 | 728624 | 66.00% | 5.896% |
| 40 | 9.706 | 704 | 706 | 709 | rBV4 | 67497 | 134577 | 12.19% | 1.089% |
| 41 | 9.878 | 719 | 721 | 722 | rBV | 103427 | 97166 | 8.80% | 0.786% |
| 42 | 9.946 | 726 | 727 | 729 | rBV | 158913 | 164482 | 14.90% | 1.331% |
| 43 | 9.992 | 729 | 731 | 734 | rBV3 | 89741 | 174429 | 15.80% | 1.411% |
| 44 | 10.335 | 760 | 761 | 764 | rBV2 | 202999 | 289561 | 26.23% | 2.343% |
| 45 | 10.666 | 788 | 790 | 792 | rVB2 | 104576 | 126299 | 11.44% | 1.022% |
| 46 | 10.941 | 813 | 814 | 819 | rVB | 138190 | 162953 | 14.76% | 1.319% |
| 47 | 11.021 | 819 | 821 | 824 | rBV | 591468 | 1103999 | 100.00% | 8.933% |
| 48 | 12.609 | 957 | 960 | 962 | rVB | 507406 | 513245 | 46.49% | 4.153% |
| 49 | 13.650 | 1049 | 1051 | 1054 | rBV | 822437 | 879912 | 79.70% | 7.120% |
| 50 | 14.998 | 1167 | 1169 | 1172 | rBV | 481219 | 615438 | 55.75% | 4.980% |

Sum of corrected areas: 12357970

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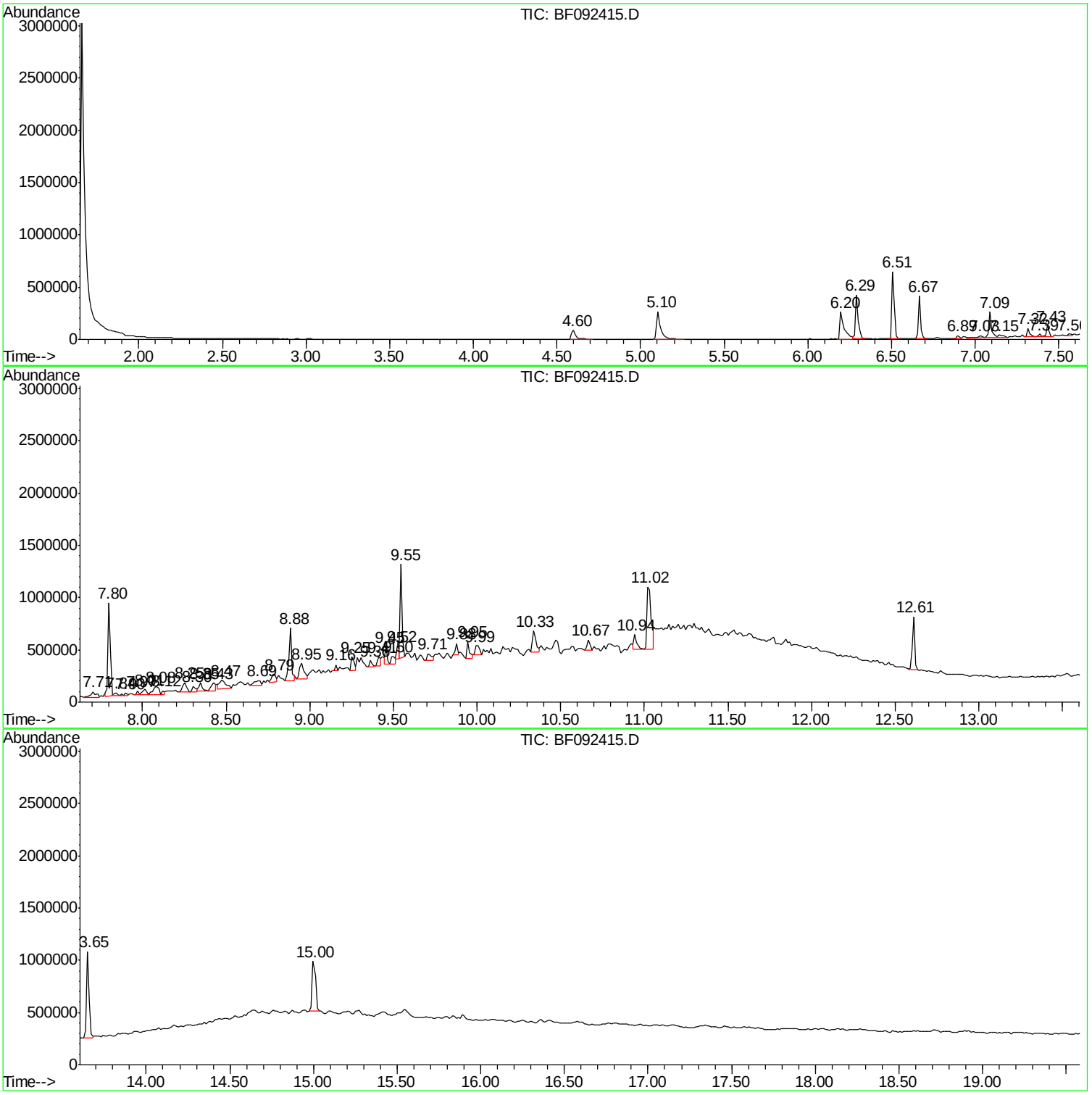
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

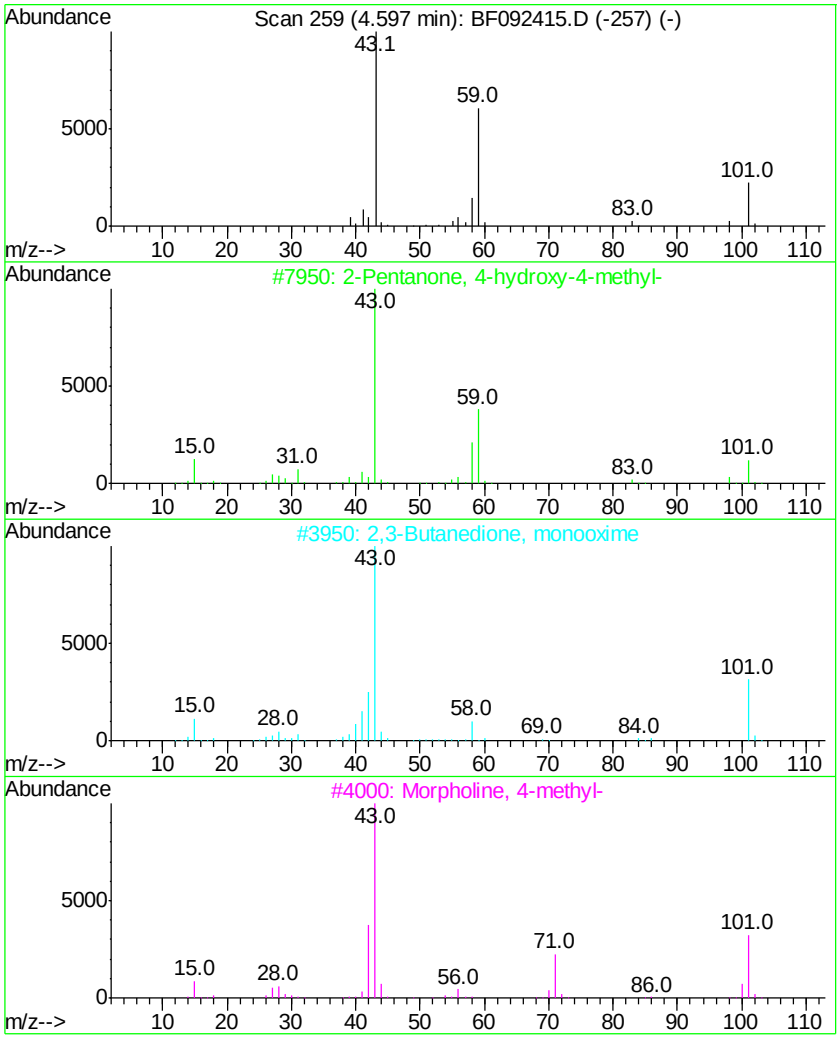
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

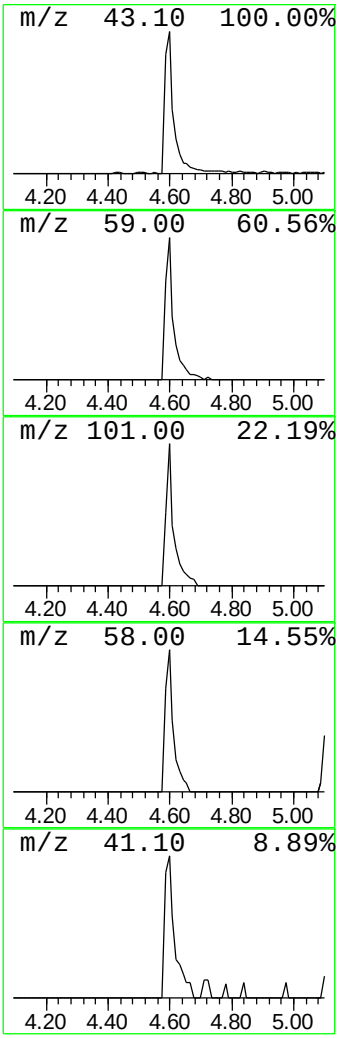
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.60 | 4.70 ng | 161840 | 1,4-Dichlorobenzene-d4 | 6.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 32 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |
| 5 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

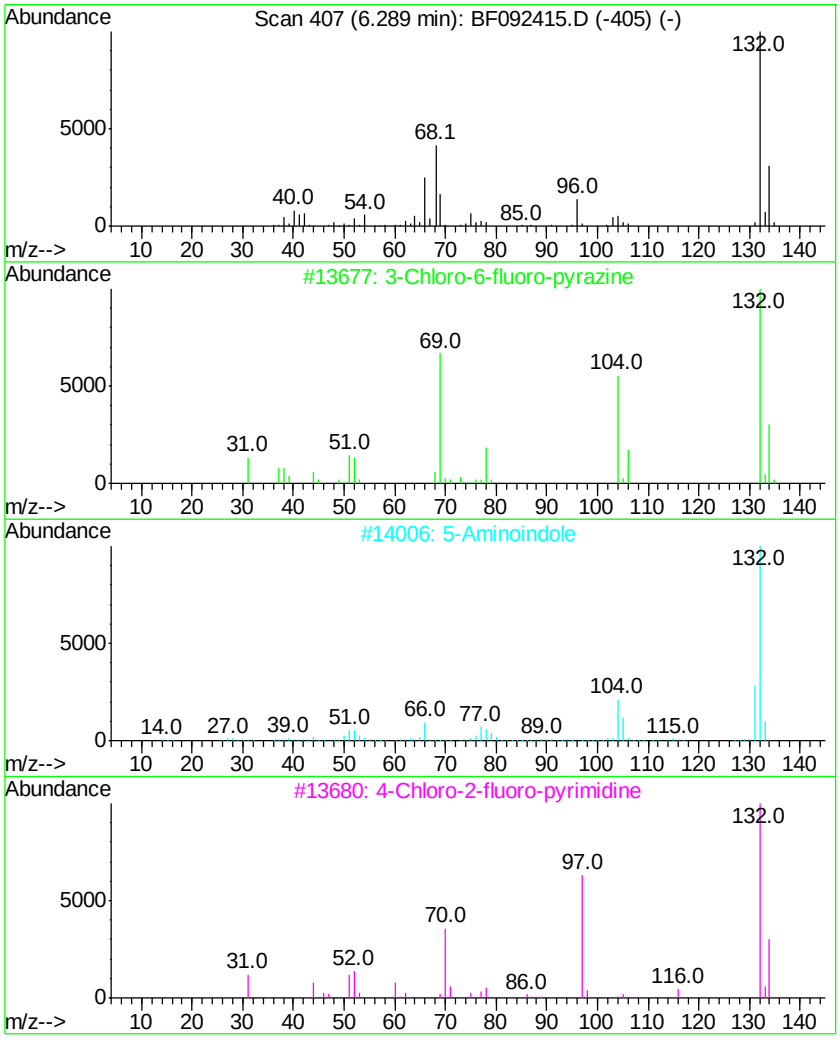
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

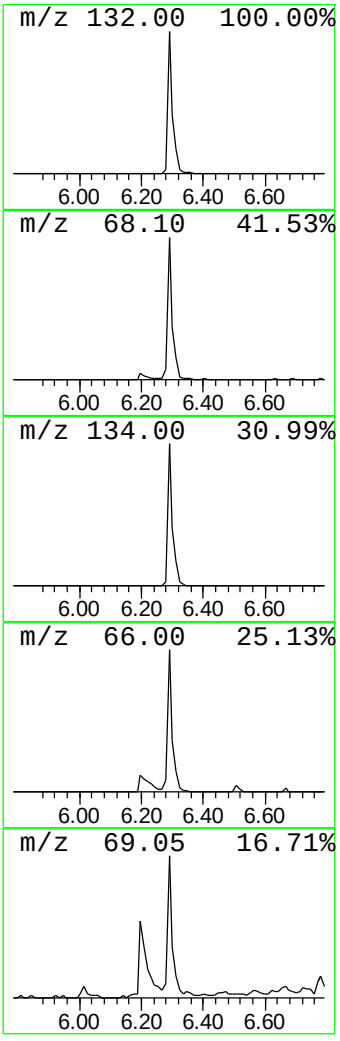
**********

Peak Number 2 unknown6.29 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.29 | 13.91 ng | 479029 | 1,4-Dichlorobenzene-d4 | 6.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

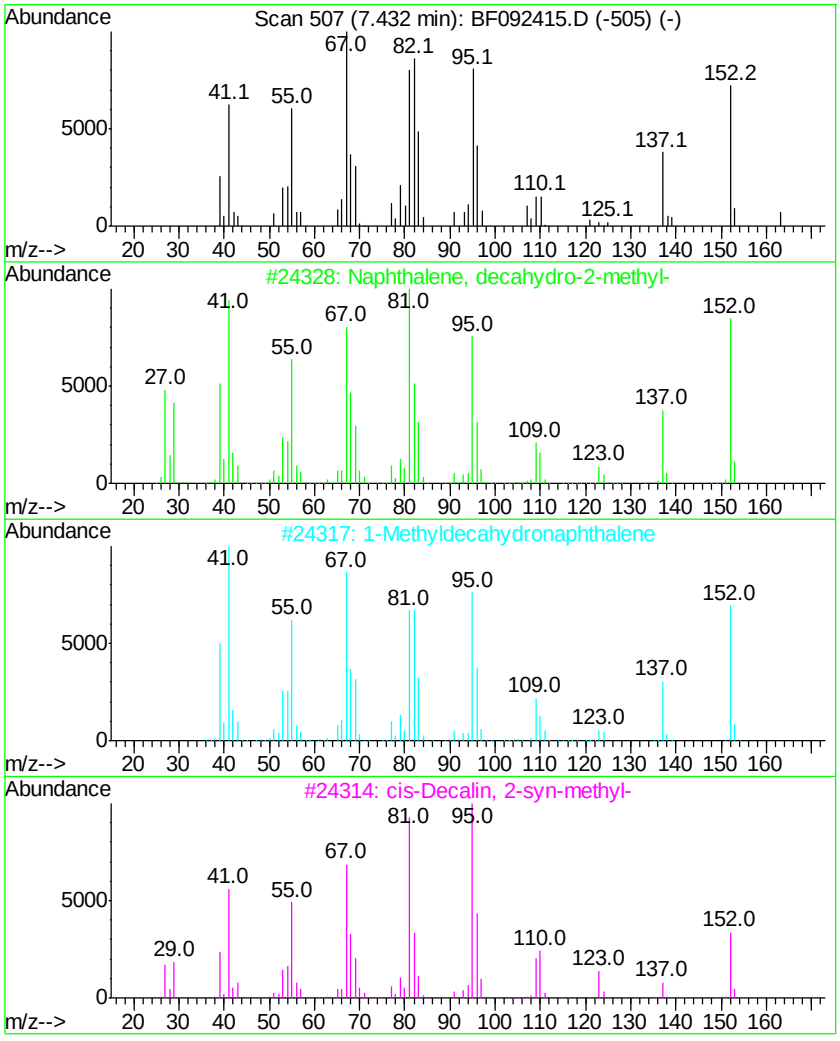
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

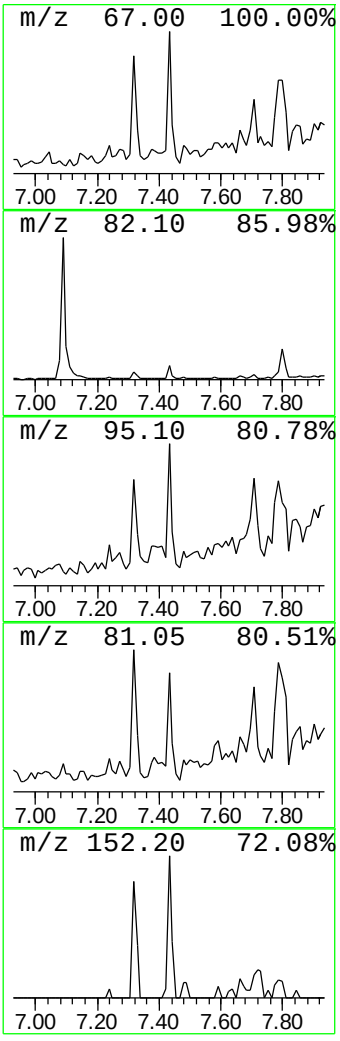
**********

Peak Number 4 Naphthalene, decahydro-2-me... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.43 | 2.59 ng | 121007 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 93 |
| 2 | 1-Methyldecahydronaphthalene | 152 | C11H20 | 002958-75-0 | 89 |
| 3 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 70 |
| 4 | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20 | 002547-27-5 | 58 |
| 5 | Furan, 2-hexyl- | 152 | C10H16O | 003777-70-6 | 55 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

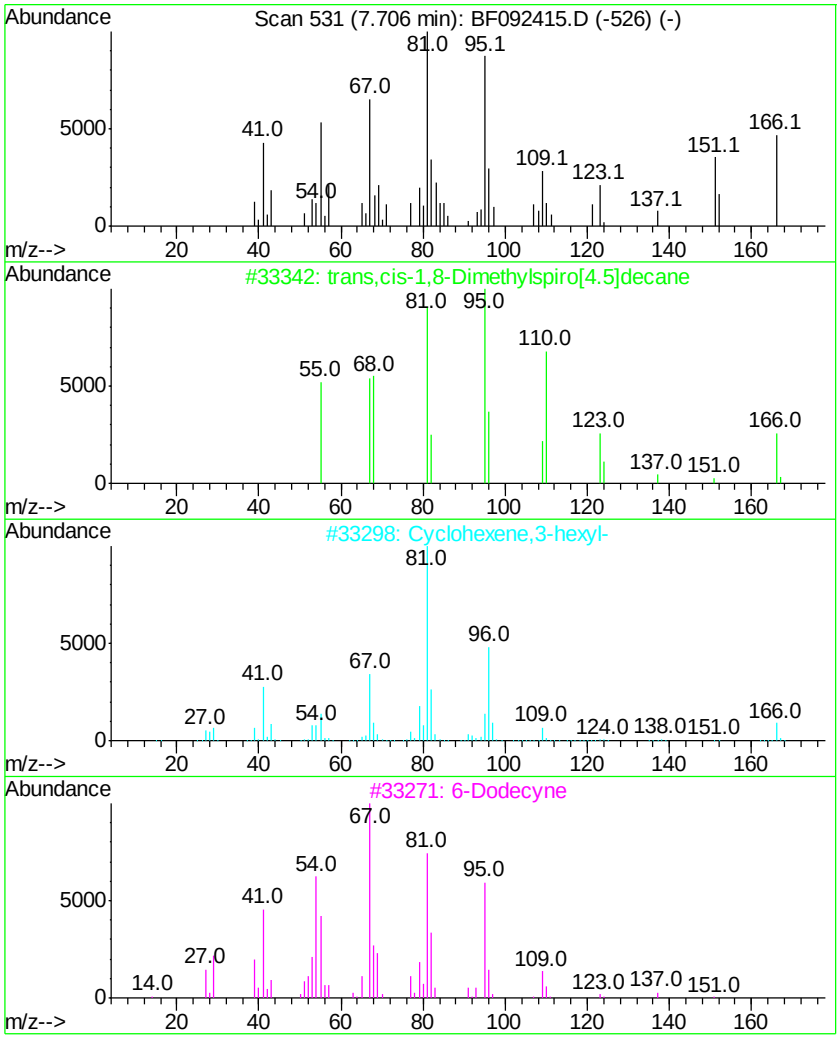
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

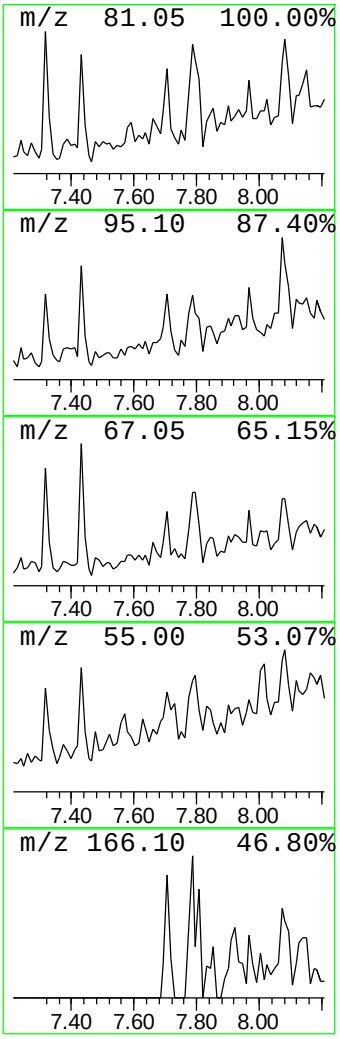
**********

Peak Number 5 trans,cis-1,8-Dimethylspiro... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.71 | 3.10 ng | 145071 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans,cis-1,8-Dimethylspiro[4.5]... | 166 | C12H22 | 1000111-72-9 | 72 |
| 2 | Cyclohexene,3-hexyl- | 166 | C12H22 | 015232-78-7 | 55 |
| 3 | 6-Dodecyne | 166 | C12H22 | 006975-99-1 | 50 |
| 4 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 50 |
| 5 | Cyclohexene, 1-pentyl- | 152 | C11H20 | 015232-85-6 | 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

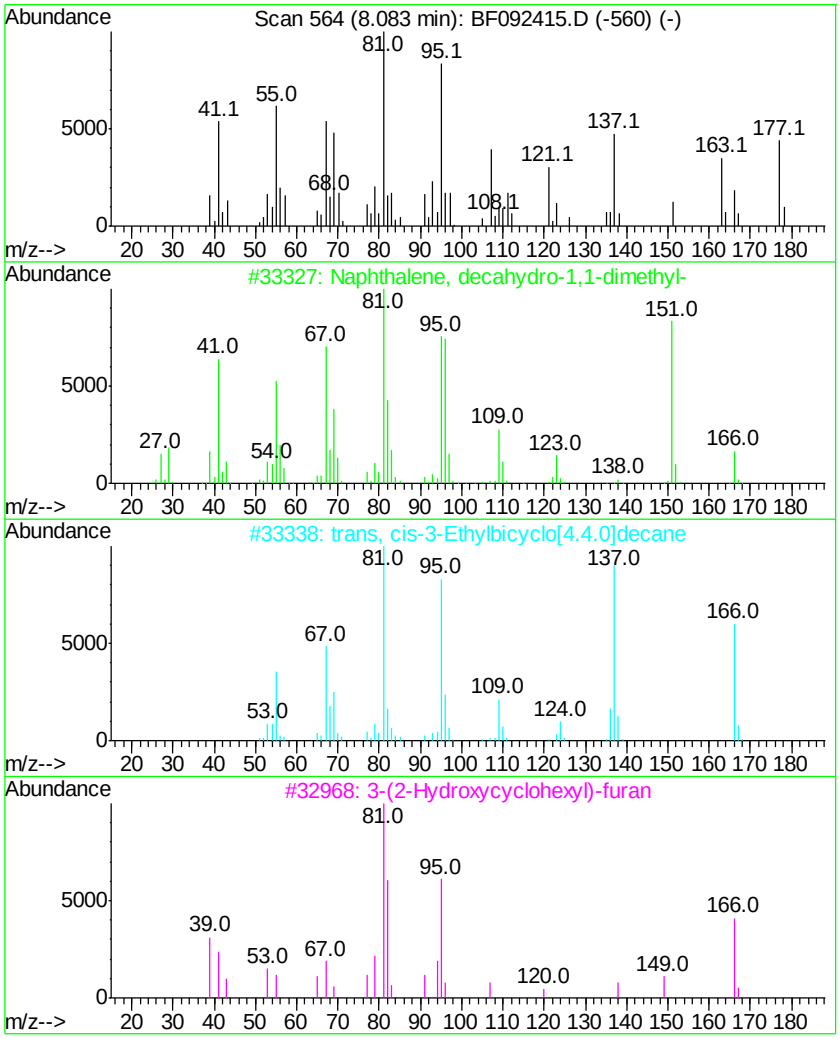
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

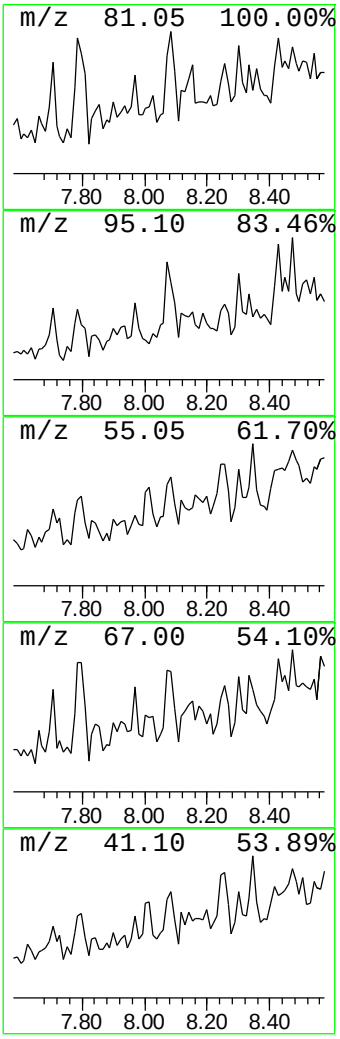
**********

Peak Number 6 Naphthalene, decahydro-1,1-... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.08 | 3.35 ng | 156602 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-1,1-dimet... | 166 | C12H22 | 035431-04-0 | 70 |
| 2 | trans, cis-3-Ethylbicyclo[4.4.0]... | 166 | C12H22 | 066660-43-3 | 52 |
| 3 | 3-(2-Hydroxycyclohexyl)-furan | 166 | C10H14O2 | 118959-04-9 | 38 |
| 4 | 4,5-Nonadiene, 2-methyl- | 138 | C10H18 | 055956-32-6 | 30 |
| 5 | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18 | 006069-97-2 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

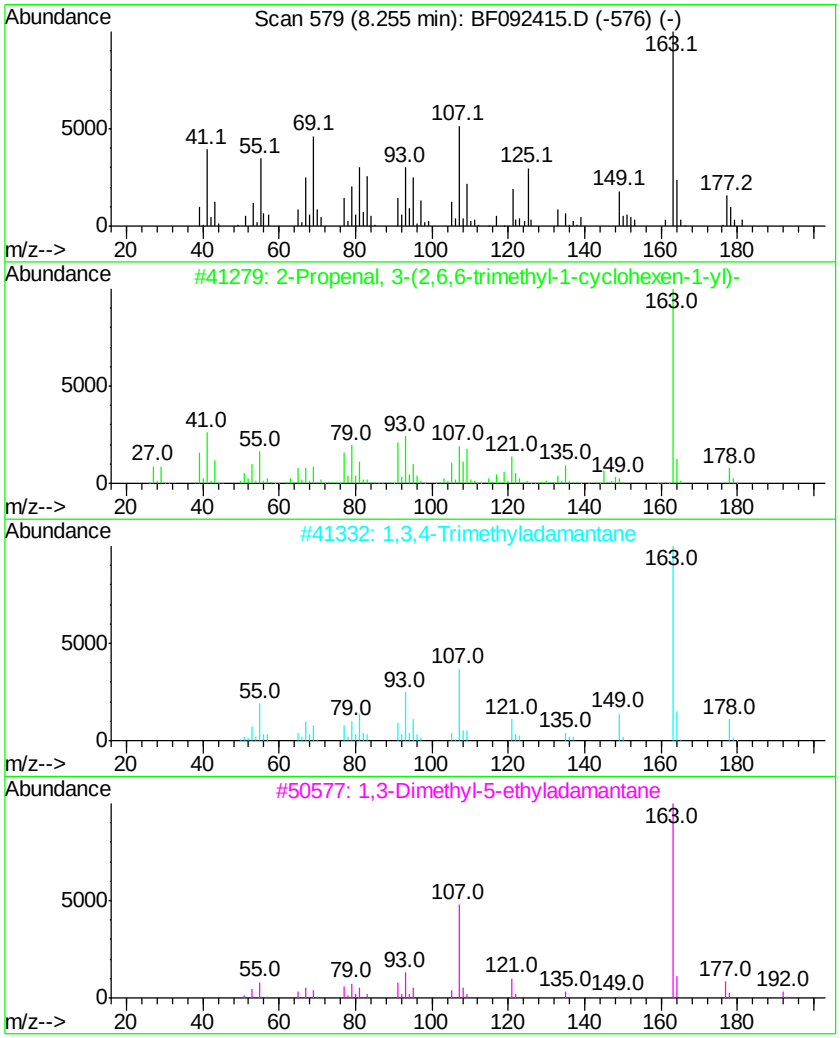
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

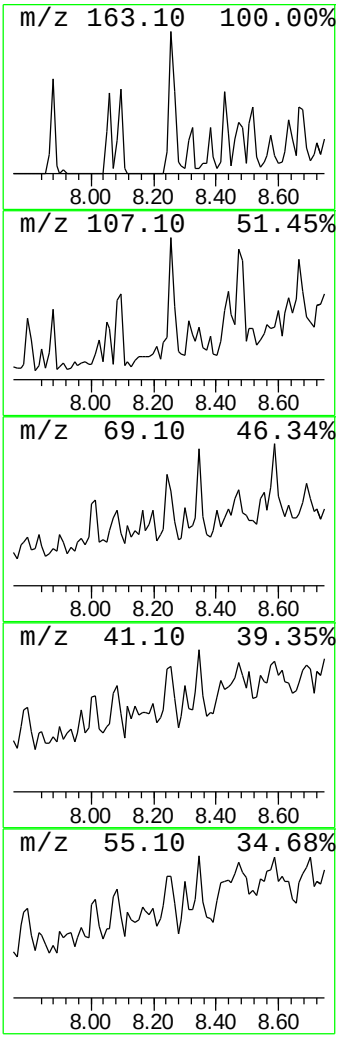
**********

Peak Number 7 2-Propenal, 3-(2,6,6-trimet... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.25 | 3.19 ng | 149552 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenal, 3-(2,6,6-trimethyl-1... | 178 | C12H18O | 004951-40-0 | 53 |
| 2 | 1,3,4-Trimethyladamantane | 178 | C13H22 | 1000214-98-3 | 52 |
| 3 | 1,3-Dimethyl-5-ethyladamantane | 192 | C14H24 | 001687-35-0 | 47 |
| 4 | 1,3,5-Trimethyladamantane | 178 | C13H22 | 000707-35-7 | 47 |
| 5 | 1,3,6-Trimethyladamantane | 178 | C13H22 | 024139-37-5 | 42 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

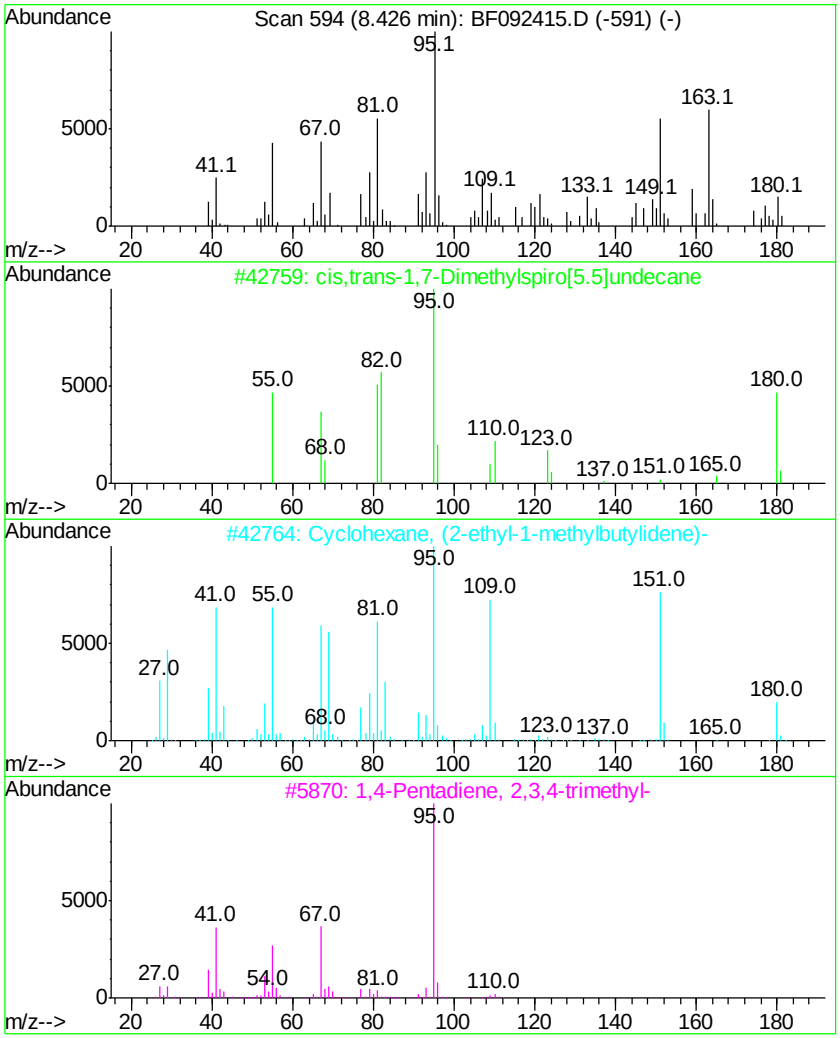
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

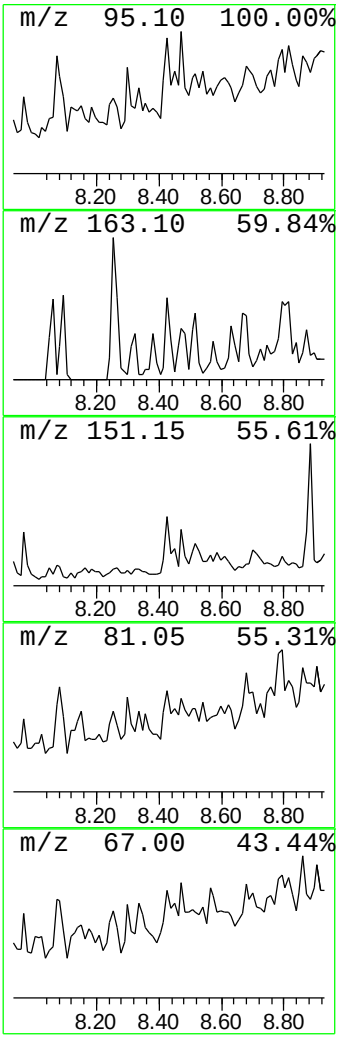
**********

Peak Number 8 unknown8.43 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.43 | 3.07 ng | 143726 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis,trans-1,7-Dimethylspiro[5.5]... | 180 | C13H24 | 1000111-73-1 | 38 |
| 2 | Cyclohexane, (2-ethyl-1-methylbu... | 180 | C13H24 | 074810-41-6 | 38 |
| 3 | 1,4-Pentadiene, 2,3,4-trimethyl- | 110 | C8H14 | 072014-90-5 | 38 |
| 4 | Santolina epoxide | 152 | C10H16O | 060485-45-2 | 35 |
| 5 | 1,4-Cyclohexanedimethanol | 144 | C8H16O2 | 000105-08-8 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

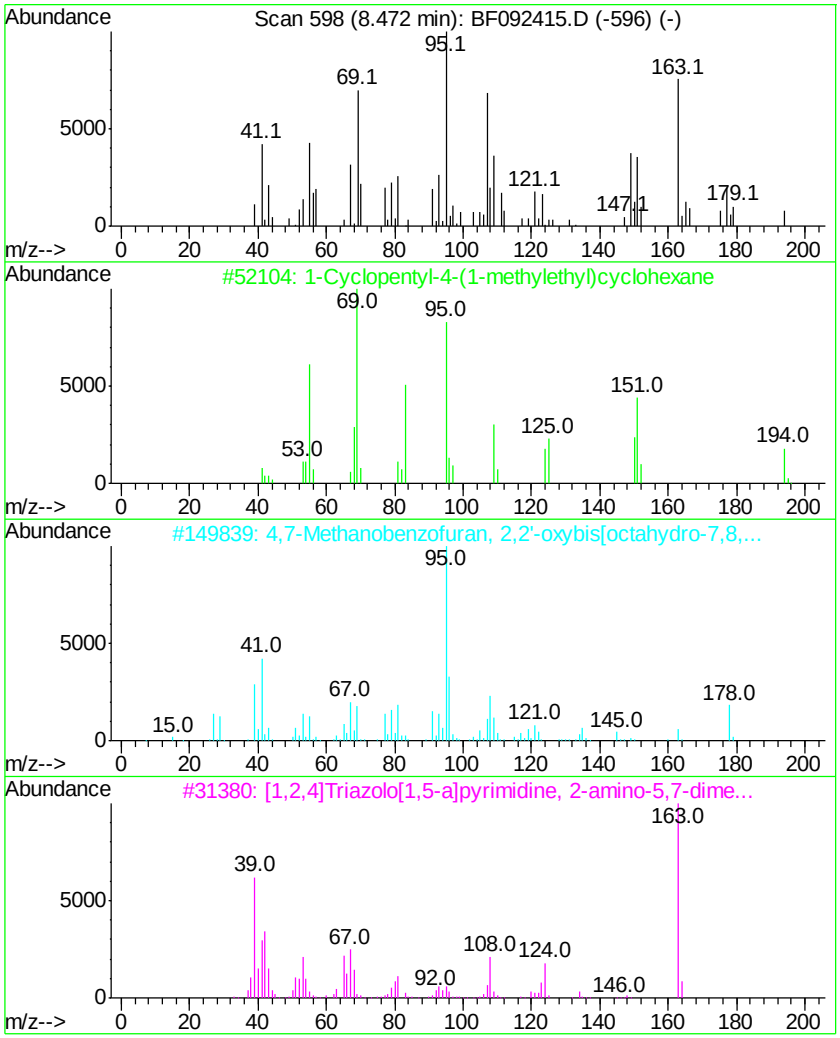
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

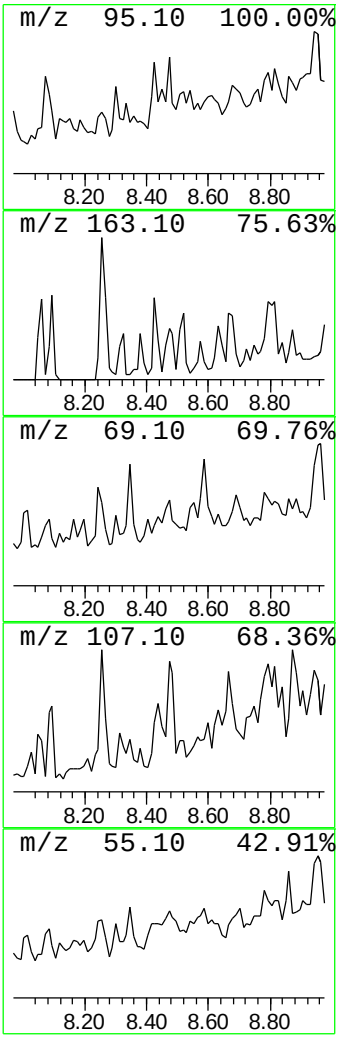
**********

Peak Number 9 unknown8.47 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.47 | 4.09 ng | 191340 | Naphthalene-d8 | 7.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Cyclopentyl-4-(1-methylethyl)c... | 194 | C14H26 | 1000215-44-4 | 27 |
| 2 | 4,7-Methanobenzofuran, 2,2'-oxyb... | 374 | C24H38O3 | 081955-10-4 | 22 |
| 3 | [1,2,4]Triazolo[1,5-a]pyrimidine... | 163 | C7H9N5 | 007135-02-6 | 22 |
| 4 | Bicyclo[3.3.1]nonan-9-one, 1,2,4... | 225 | C12H19NO3 | 129967-65-3 | 16 |
| 5 | 2H-Pyran-3-carbonitrile, 5,6-dih... | 165 | C9H11NO2 | 069245-73-4 | 15 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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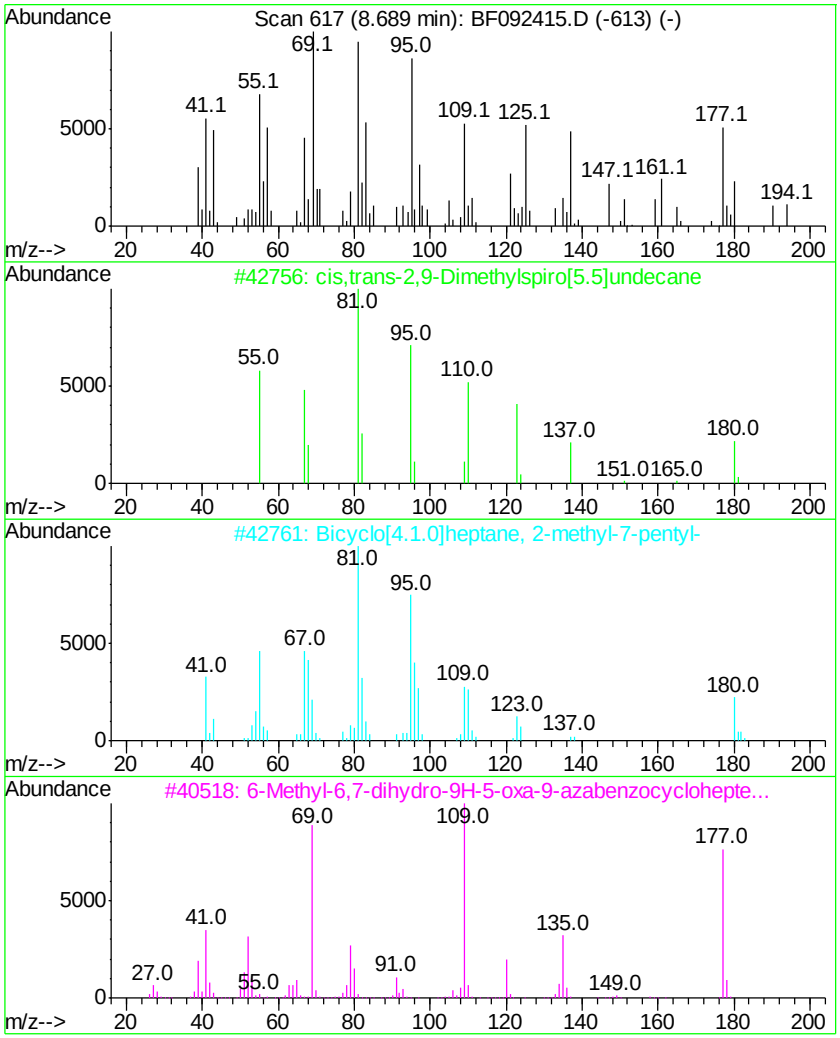
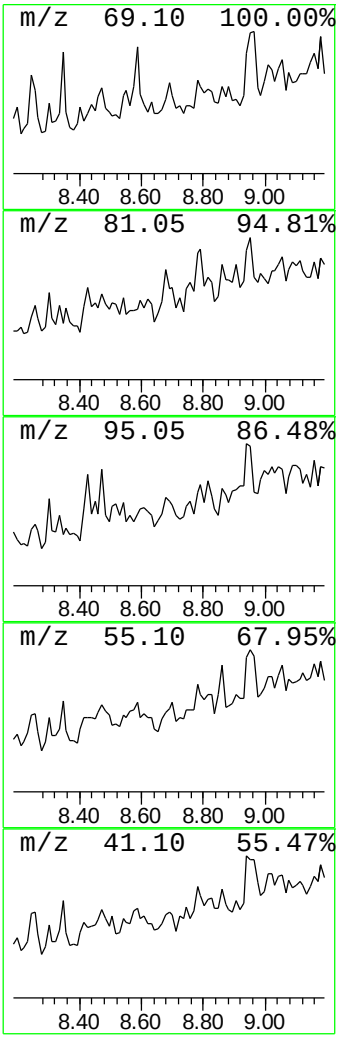
Peak Number 10 unknown8.69 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.69 | 3.71 ng | 135284 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis,trans-2,9-Dimethylspiro[5.5]... | 180 | C13H24 | 095530-74-8 | 38 |
| 2 | Bicyclo[4.1.0]heptane, 2-methyl-... | 180 | C13H24 | 055937-92-3 | 38 |
| 3 | 6-Methyl-6,7-dihydro-9H-5-oxa-9-... | 177 | C10H11NO2 | 1000210-20-2 | 30 |
| 4 | Cyclohexanol, 4-ethyl-4-methyl-3... | 184 | C12H24O | 055869-52-8 | 22 |
| 5 | Naphthalene, 2-ethyldecahydro- | 166 | C12H22 | 001618-23-1 | 22 |



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Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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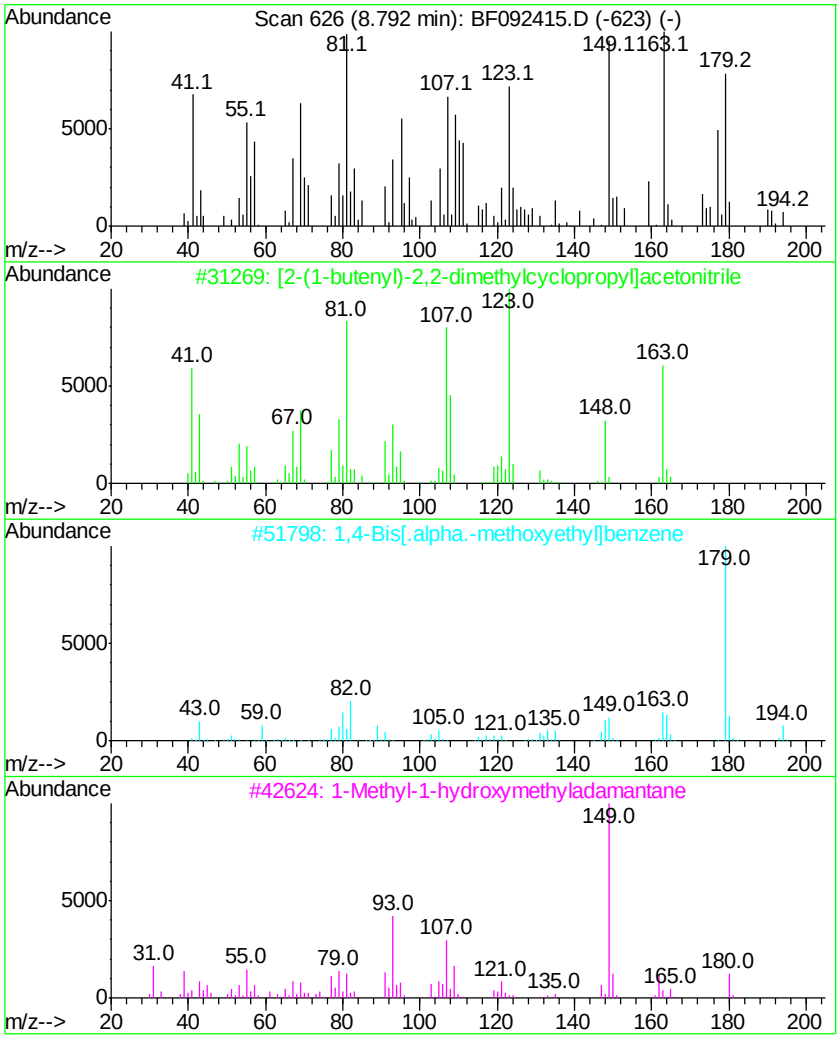
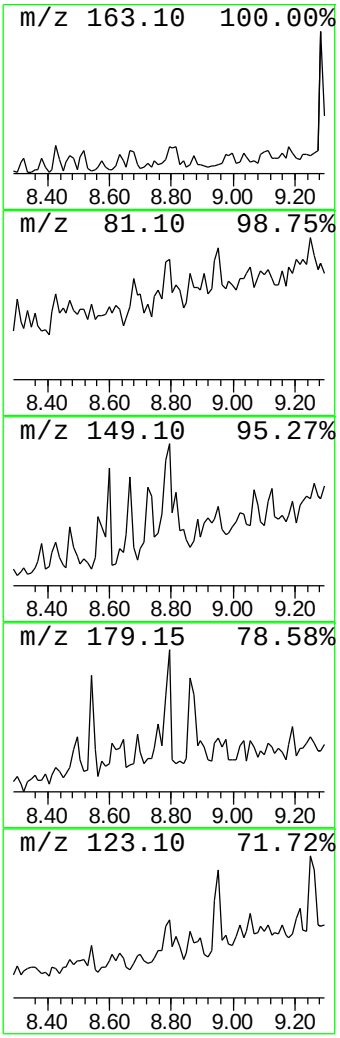
Peak Number 11 unknown8.79 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.79 | 3.78 ng | 137709 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [2-(1-butenyl)-2,2-dimethylcyclo... | 163 | C11H17N | 1000111-15-4 | 18 |
| 2 | 1,4-Bis[.alpha.-methoxyethyl]ben... | 194 | C12H18O2 | 129770-42-9 | 15 |
| 3 | 1-Methyl-1-hydroxymethyladamantane | 180 | C12H20O | 001200-78-8 | 11 |
| 4 | Adamantane, 1,3-dimethyl- | 164 | C12H20 | 000702-79-4 | 11 |
| 5 | 1,3-Cyclohexadiene, 1,3,5,5,6,6-... | 164 | C12H20 | 1000150-39-4 | 10 |



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Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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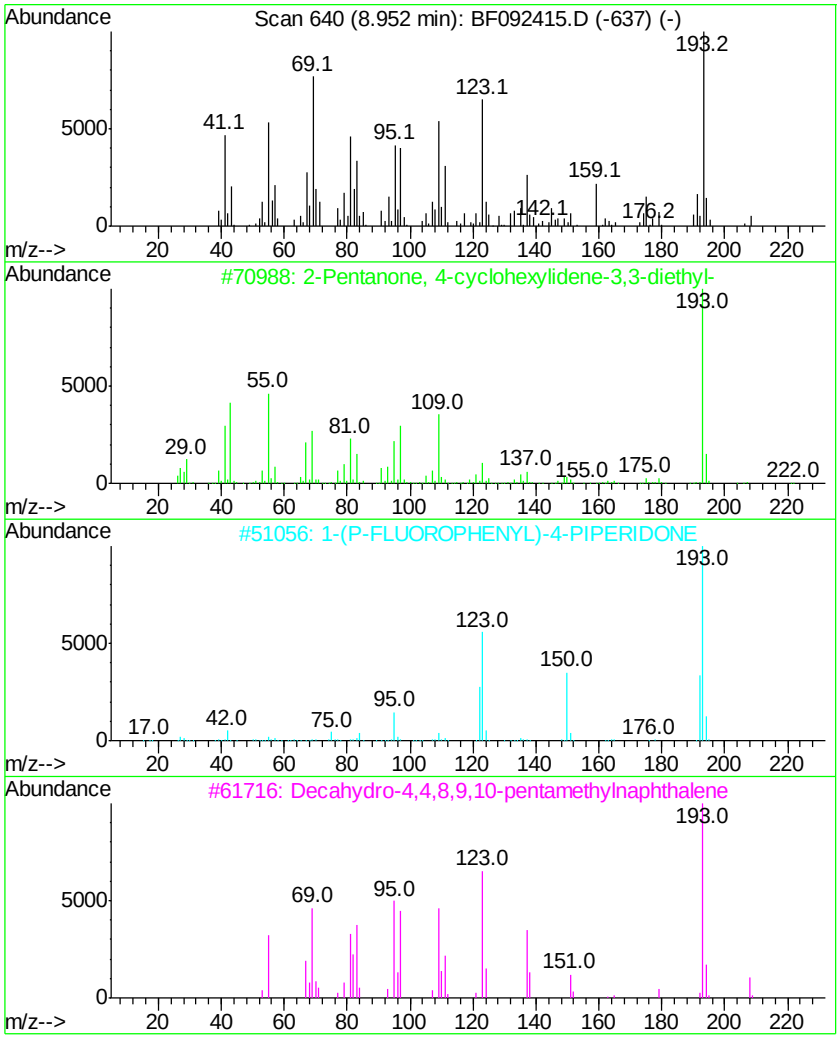
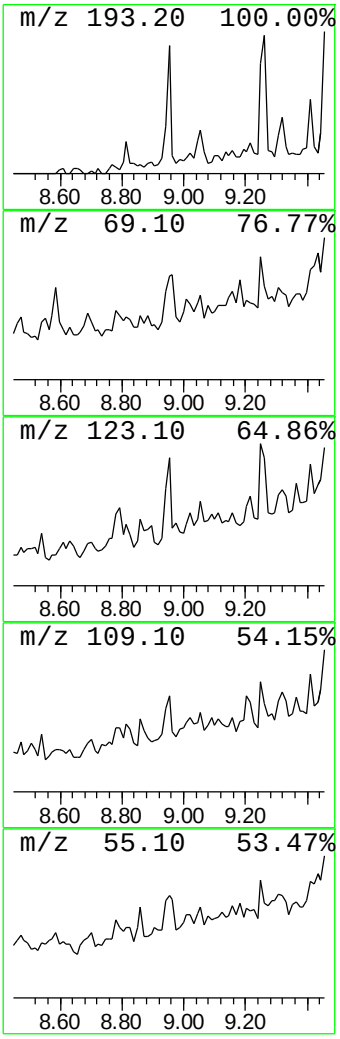
Peak Number 12 unknown8.95 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.95 | 7.72 ng | 281430 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O | 313253-65-5 | 35 |
| 2 | 1-(P-FLUOROPHENYL)-4-PIPERIDONE | 193 | C11H12FNO | 1000238-56-7 | 35 |
| 3 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 22 |
| 4 | Neopentylidenecyclohexane | 152 | C11H20 | 039546-80-0 | 22 |
| 5 | Cyclohexane, 1-(cyclohexylmethyl... | 208 | C15H28 | 054934-92-8 | 22 |



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Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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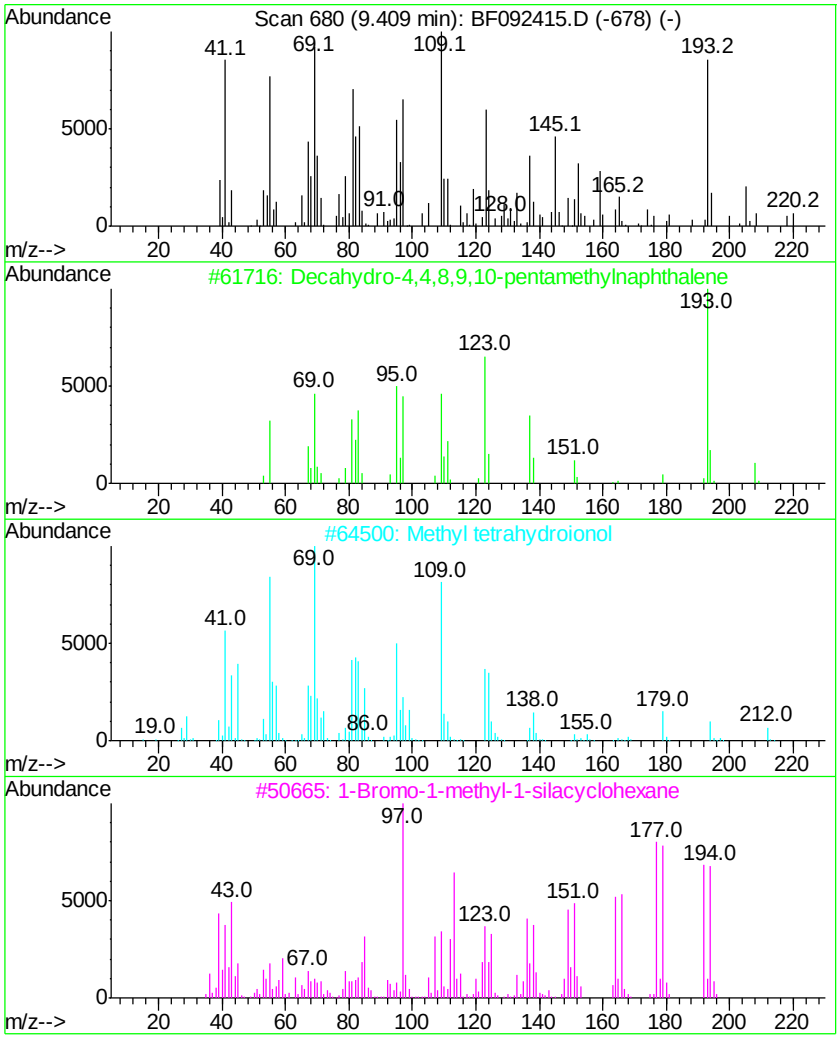
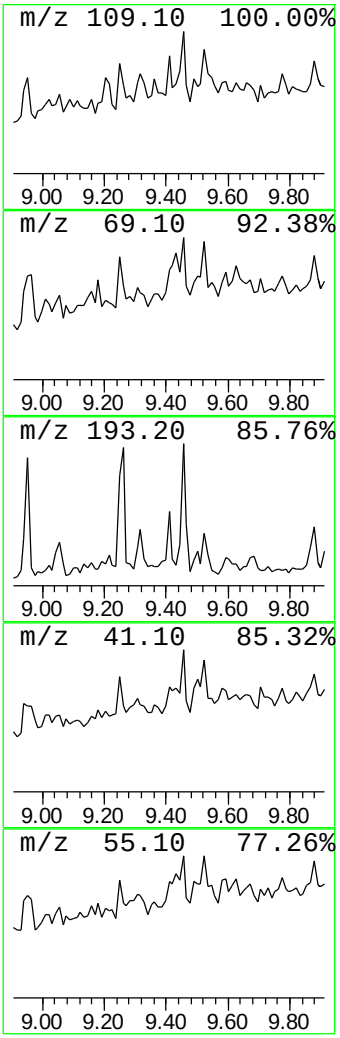
Peak Number 13 Decahydro-4,4,8,9,10-pentam... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.41 | 3.19 ng | 116229 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 91 |
| 2 | Methyl tetrahydroionol | 212 | C14H28O | 060241-53-4 | 43 |
| 3 | 1-Bromo-1-methyl-1-silacyclohexane | 192 | C6H13BrSi | 085125-32-2 | 25 |
| 4 | 2-(1-Methyl-1-dimethoxyamino)eth... | 193 | C8H19NO4 | 081308-30-7 | 22 |
| 5 | 3-Cyclohexene-1-carboxaldehyde, ... | 152 | C10H16O | 040702-26-9 | 15 |



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Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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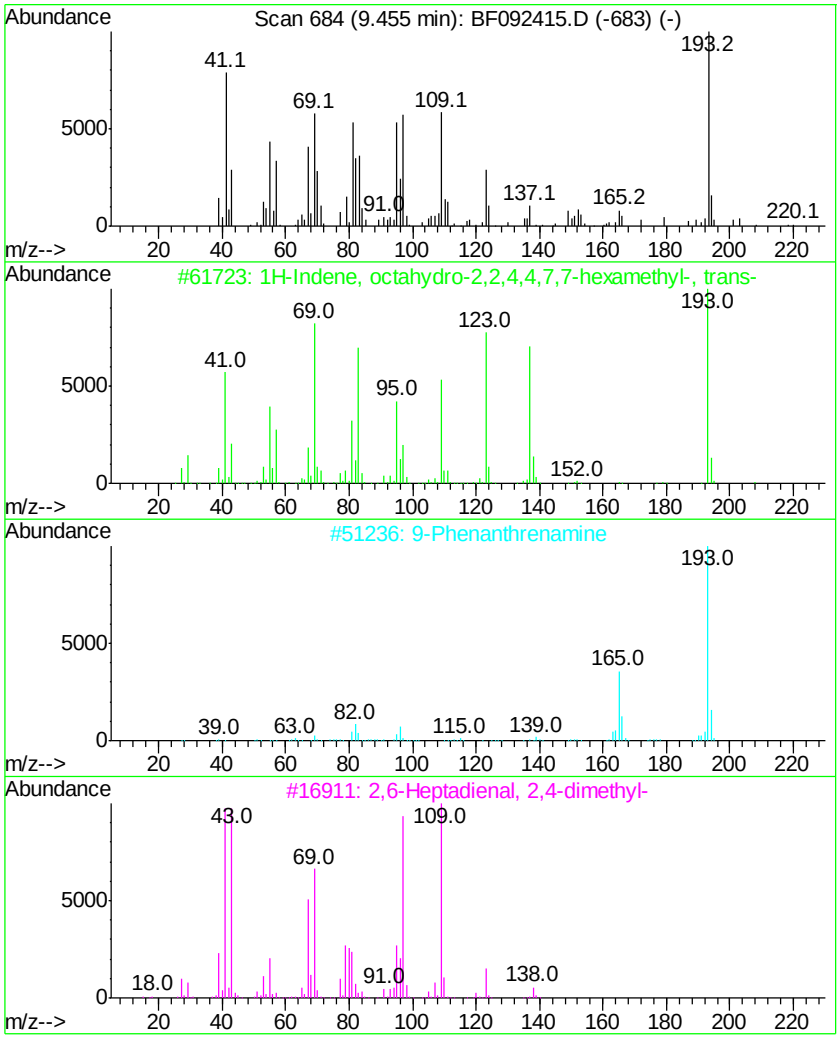
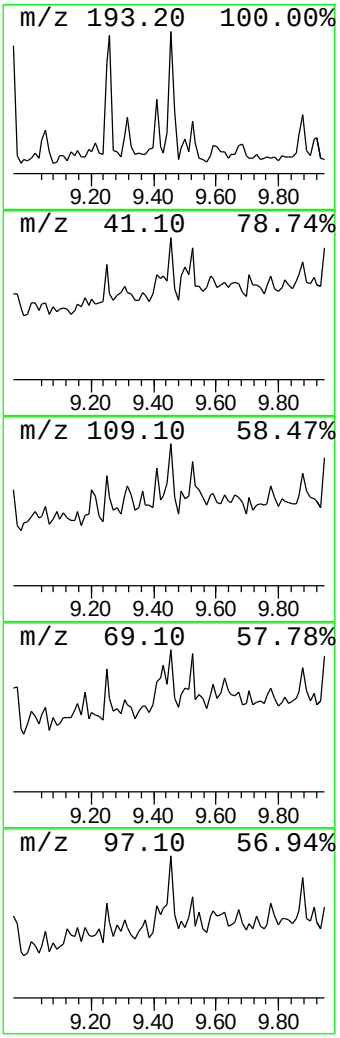
Peak Number 14 1H-Indene, octahydro-2,2,4,... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.45 | 3.44 ng | 125489 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 | C15H28 | 054832-83-6 | 52 |
| 2 | 9-Phenanthrenamine | 193 | C14H11N | 000947-73-9 | 42 |
| 3 | 2,6-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 085136-08-9 | 35 |
| 4 | 2-Anthracenamine | 193 | C14H11N | 000613-13-8 | 25 |
| 5 | Cyclohexene, 3,3,5-trimethyl- | 124 | C9H16 | 000503-45-7 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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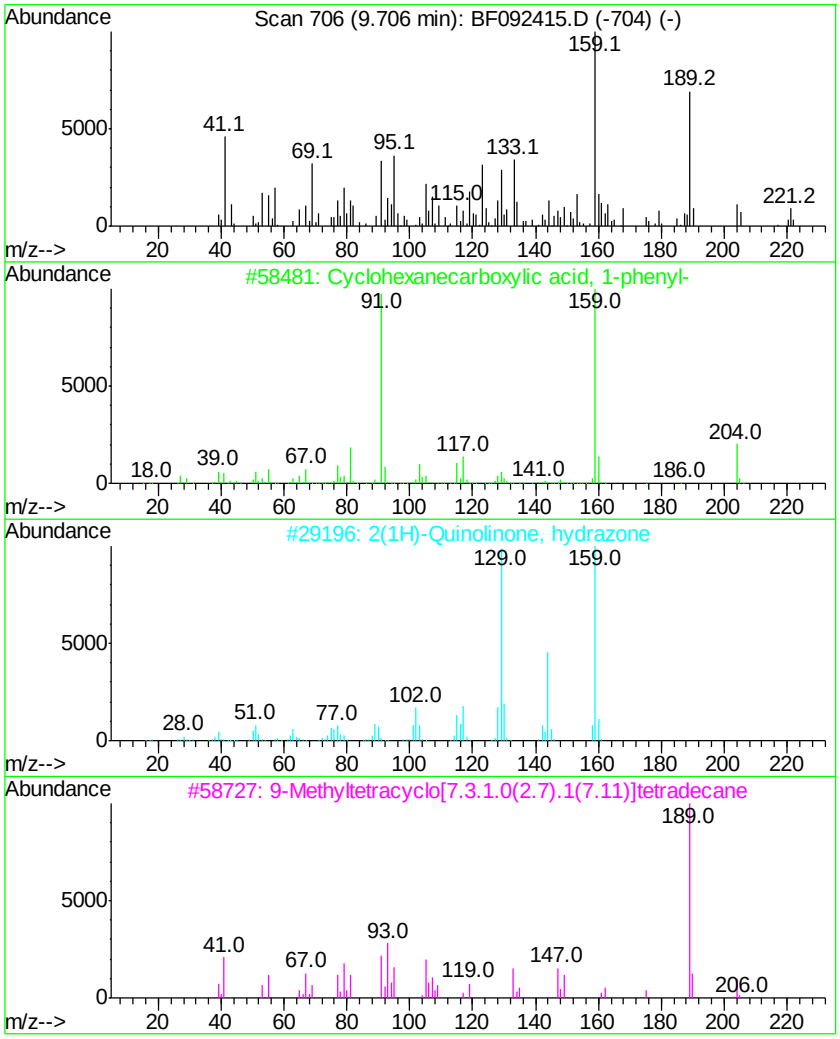
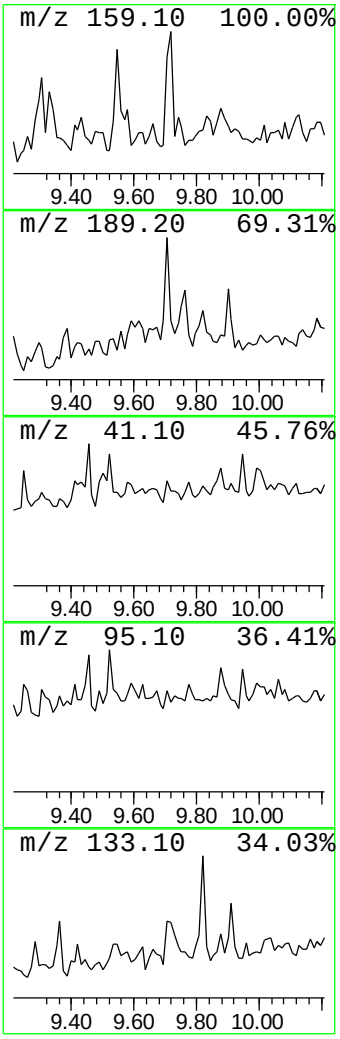
Peak Number 15 unknown9.71 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.71 | 3.69 ng | 134577 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanecarboxylic acid, 1-ph... | 204 | C13H16O2 | 001135-67-7 | 27 |
| 2 | 2(1H)-Quinolinone, hydrazone | 159 | C9H9N3 | 015793-77-8 | 27 |
| 3 | 9-Methyltetracyclo[7.3.1.0(2.7).... | 204 | C15H24 | 1000215-30-5 | 25 |
| 4 | 8-Quinolinol, 2-methyl- | 159 | C10H9NO | 000826-81-3 | 25 |
| 5 | 2-Naphthalenemethanol, 1,2,3,4,4... | 222 | C15H26O | 001209-71-8 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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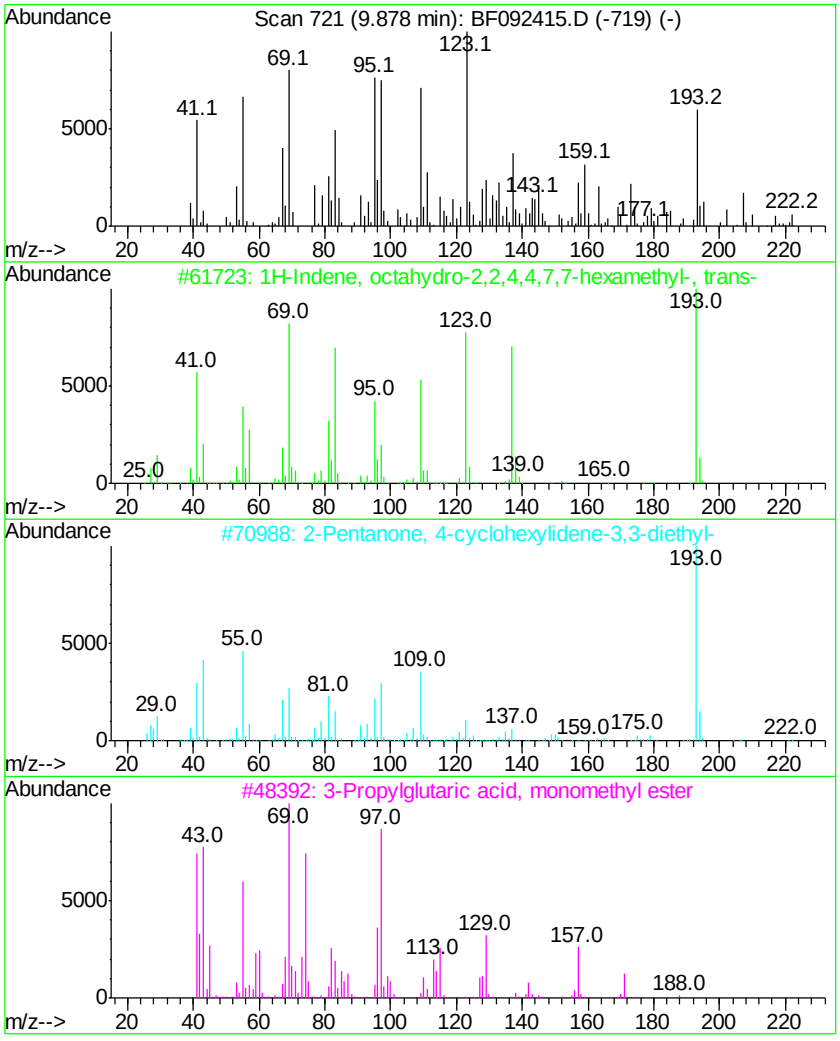
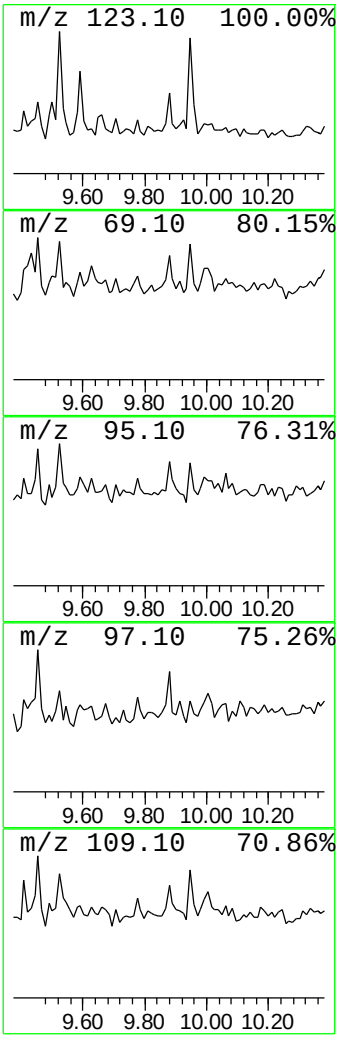
Peak Number 16 unknown9.88 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.88 | 2.67 ng | 97166 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 | C15H28 | 054832-83-6 | 41 |
| 2 | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O | 313253-65-5 | 35 |
| 3 | 3-Propylglutaric acid, monomethy... | 188 | C9H16O4 | 1000254-25-9 | 30 |
| 4 | Diallyldivinylsilane | 164 | C10H16Si | 119901-88-1 | 27 |
| 5 | 2-Pentene, 3-ethyl-4,4-dimethyl- | 126 | C9H18 | 053907-59-8 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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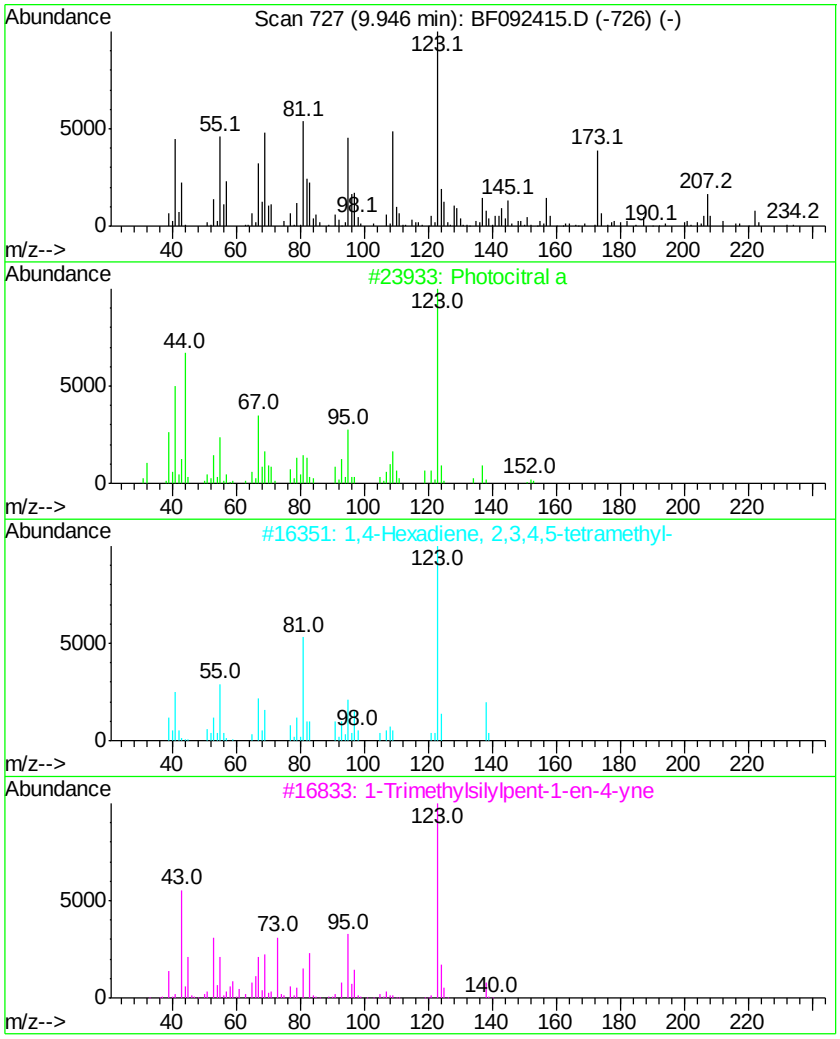
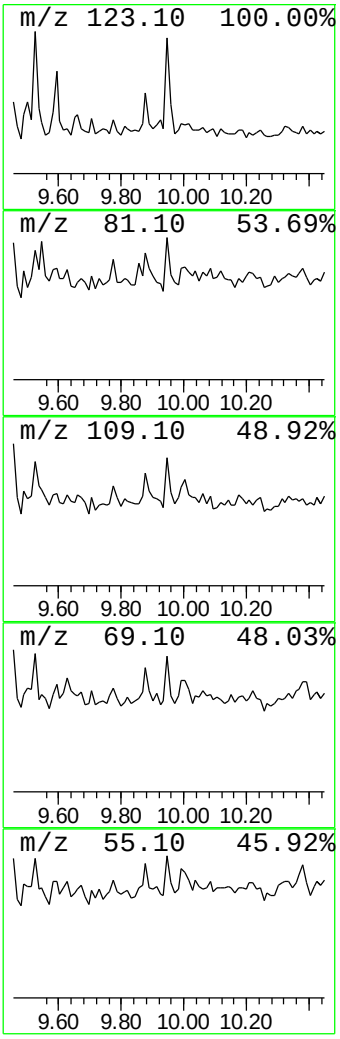
Peak Number 17 unknown9.95 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.95 | 4.51 ng | 164482 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Photocitral a | 152 | C10H16O | 1000292-85-0 | 38 |
| 2 | 1,4-Hexadiene, 2,3,4,5-tetramethyl- | 138 | C10H18 | 051504-54-2 | 38 |
| 3 | 1-Trimethylsilylpent-1-en-4-yne | 138 | C8H14Si | 079516-25-9 | 38 |
| 4 | 4-Nitrophenyl bicyclo[4.1.0]hept... | 261 | C14H15NO4 | 328938-65-4 | 38 |
| 5 | Cyclopentene, 1,3-dimethyl-2-(1-... | 138 | C10H18 | 061142-32-3 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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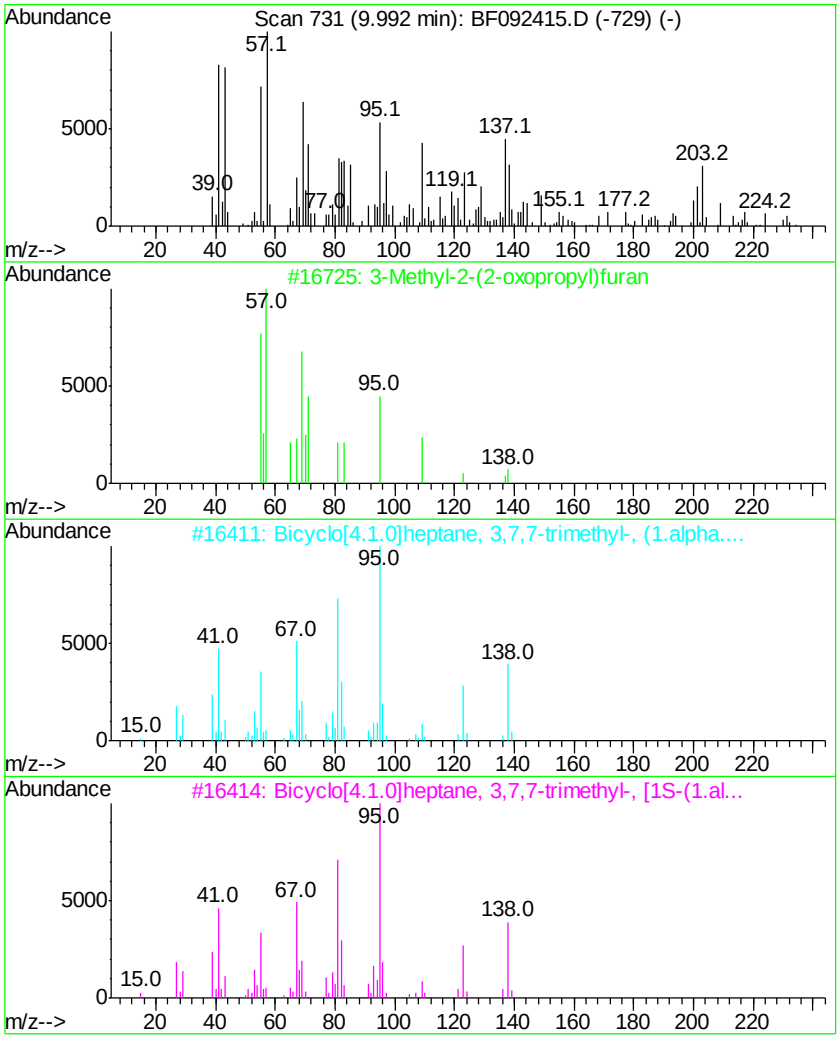
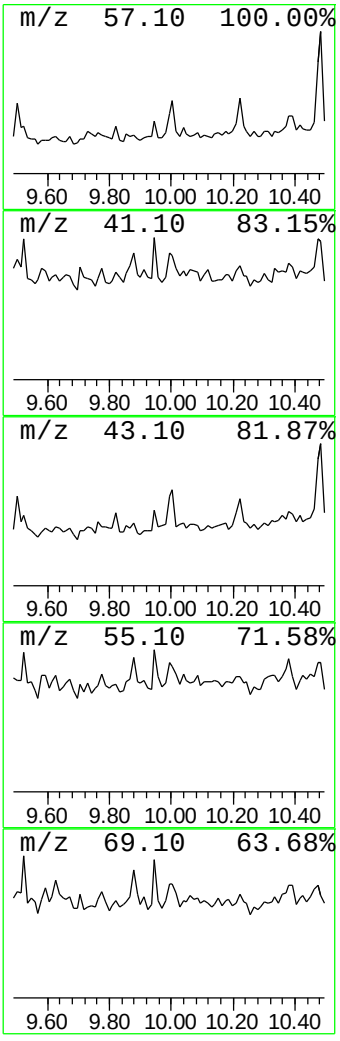
Peak Number 18 unknown9.99 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.99 | 4.79 ng | 174429 | Acenaphthene-d10 | 9.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Methyl-2-(2-oxopropyl)furan | 138 | C8H10O2 | 087773-62-4 | 38 |
| 2 | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18 | 018968-23-5 | 35 |
| 3 | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18 | 002778-68-9 | 35 |
| 4 | 3,5-Octadiene, 4,5-diethyl- | 166 | C12H22 | 067652-84-0 | 22 |
| 5 | Cyclohexanol, 5-methyl-2-(1-meth... | 198 | C12H22O2 | 016409-45-3 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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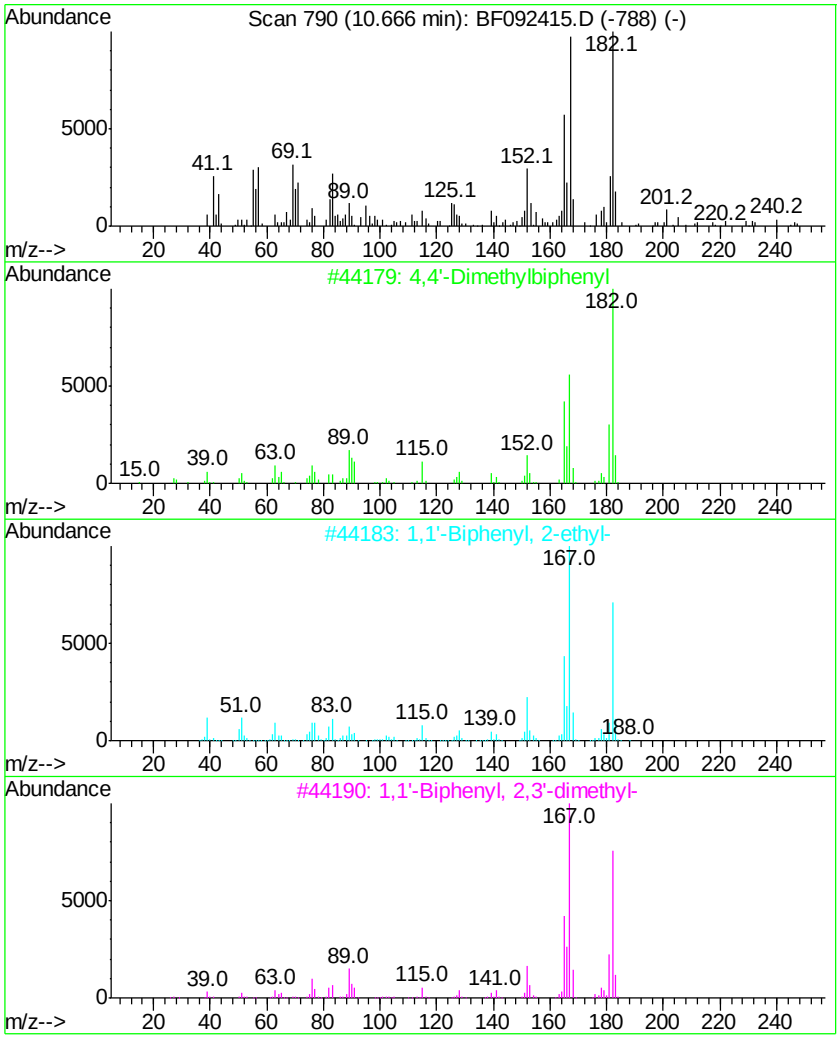
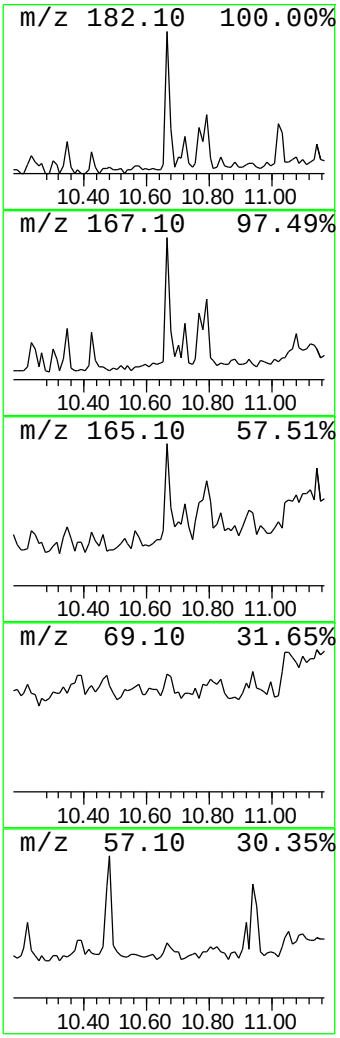
Peak Number 19 4,4'-Dimethylbiphenyl Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 2.29 ng | 126299 | Phenanthrene-d10 | 11.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 94 |
| 2 | 1,1'-Biphenyl, 2-ethyl- | 182 | C14H14 | 001812-51-7 | 93 |
| 3 | 1,1'-Biphenyl, 2,3'-dimethyl- | 182 | C14H14 | 000611-43-8 | 91 |
| 4 | 1,1'-Biphenyl, 2,4'-dimethyl- | 182 | C14H14 | 000611-61-0 | 87 |
| 5 | 2,2'-Dimethylbiphenyl | 182 | C14H14 | 000605-39-0 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

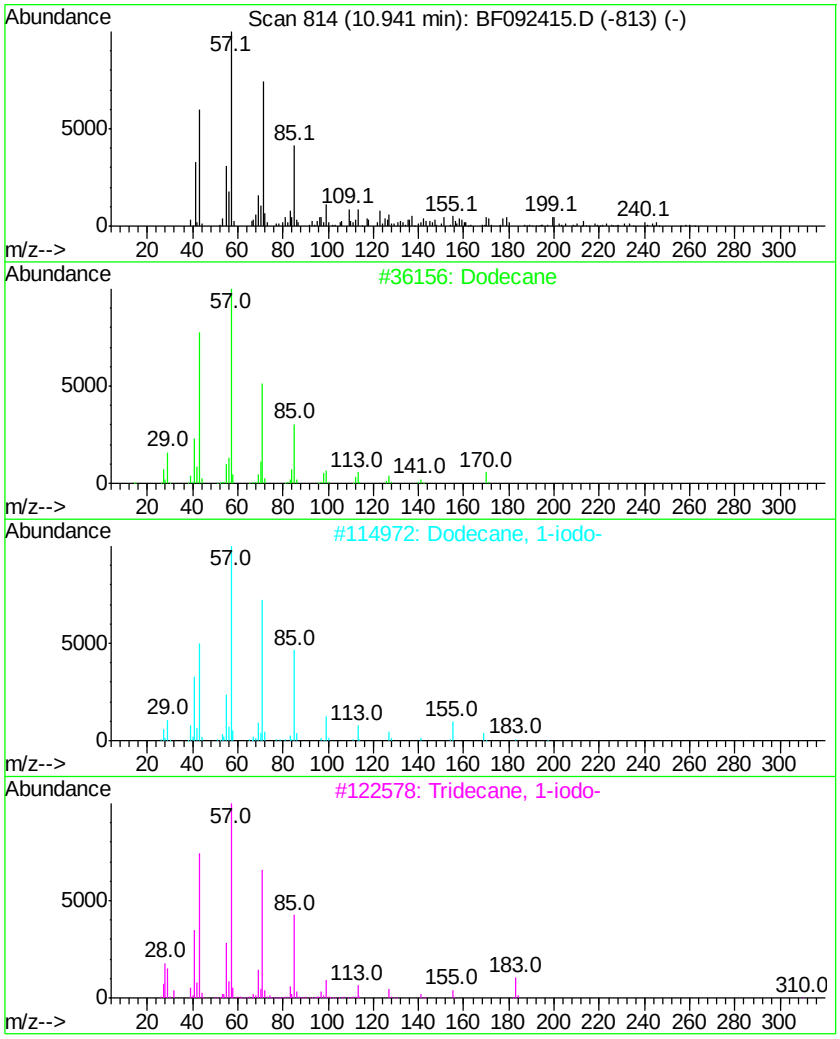
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

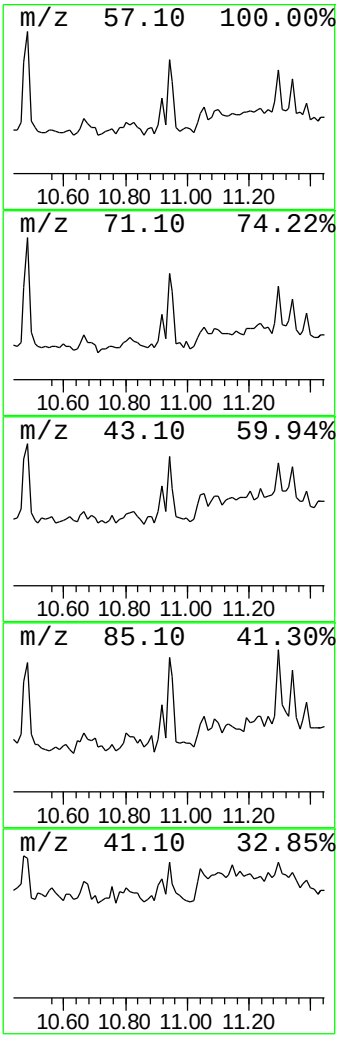
**********

Peak Number 20 Dodecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.94 | 2.95 ng | 162953 | Phenanthrene-d10 | 11.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 87 |
| 2 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 80 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 80 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 80 |
| 5 | Undecane, 3,8-dimethyl- | 184 | C13H28 | 017301-30-3 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012117\
Data File : BF092415.D
Acq On : 21 Jan 2017 16:20
Operator : UM/SJ
Sample : I1265-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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... | 4.60 | 4.7 | ng | 161840 | 1 | 6.51 | 688834 | 20.0 |
| unknown6.29 | 6.29 | 13.9 | ng | 479029 | 1 | 6.51 | 688834 | 20.0 |
| Naphthalene, deca... | 7.43 | 2.6 | ng | 121007 | 2 | 7.80 | 936179 | 20.0 |
| trans,cis-1,8-Dim... | 7.71 | 3.1 | ng | 145071 | 2 | 7.80 | 936179 | 20.0 |
| Naphthalene, deca... | 8.08 | 3.4 | ng | 156602 | 2 | 7.80 | 936179 | 20.0 |
| 2-Propenal, 3-(2,... | 8.25 | 3.2 | ng | 149552 | 2 | 7.80 | 936179 | 20.0 |
| unknown8.43 | 8.43 | 3.1 | ng | 143726 | 2 | 7.80 | 936179 | 20.0 |
| unknown8.47 | 8.47 | 4.1 | ng | 191340 | 2 | 7.80 | 936179 | 20.0 |
| unknown8.69 | 8.69 | 3.7 | ng | 135284 | 3 | 9.55 | 728624 | 20.0 |
| unknown8.79 | 8.79 | 3.8 | ng | 137709 | 3 | 9.55 | 728624 | 20.0 |
| unknown8.95 | 8.95 | 7.7 | ng | 281430 | 3 | 9.55 | 728624 | 20.0 |
| Decahydro-4,4,8,9... | 9.41 | 3.2 | ng | 116229 | 3 | 9.55 | 728624 | 20.0 |
| 1H-Indene, octahy... | 9.45 | 3.4 | ng | 125489 | 3 | 9.55 | 728624 | 20.0 |
| unknown9.71 | 9.71 | 3.7 | ng | 134577 | 3 | 9.55 | 728624 | 20.0 |
| unknown9.88 | 9.88 | 2.7 | ng | 97166 | 3 | 9.55 | 728624 | 20.0 |
| unknown9.95 | 9.95 | 4.5 | ng | 164482 | 3 | 9.55 | 728624 | 20.0 |
| unknown9.99 | 9.99 | 4.8 | ng | 174429 | 3 | 9.55 | 728624 | 20.0 |
| 4,4'-Dimethylbiph... | 10.67 | 2.3 | ng | 126299 | 4 | 11.02 | 1104000 | 20.0 |
| Dodecane | 10.94 | 3.0 | ng | 162953 | 4 | 11.02 | 1104000 | 20.0 |