

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
 Data File : BF093192.D  
 Acq On : 25 Feb 2017 14:57  
 Operator : SJ/MA  
 Sample : I1972-22  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z6-BASE

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.201       | 7             | 10          | 20           | rBV      | 1318270        | 1937937       | 1.69%           | 0.649%        |
| 2         | 4.373       | 189           | 200         | 203          | rBV      | 1815055        | 3332190       | 2.91%           | 1.116%        |
| 3         | 4.990       | 251           | 254         | 264          | rVB      | 901808         | 1278859       | 1.12%           | 0.428%        |
| 4         | 5.436       | 291           | 293         | 302          | rVB      | 2536174        | 2945607       | 2.57%           | 0.986%        |
| 5         | 5.744       | 318           | 320         | 324          | rVV      | 1186048        | 1292680       | 1.13%           | 0.433%        |
| 6         | 6.487       | 383           | 385         | 389          | rBV      | 2333279        | 3429105       | 2.99%           | 1.148%        |
| 7         | 6.613       | 393           | 396         | 398          | rVV      | 2874470        | 4463764       | 3.89%           | 1.495%        |
| 8         | 6.670       | 398           | 401         | 403          | rVV3     | 902536         | 2699535       | 2.35%           | 0.904%        |
| 9         | 6.705       | 403           | 404         | 407          | rVB2     | 1323613        | 1549848       | 1.35%           | 0.519%        |
| 10        | 6.830       | 413           | 415         | 419          | rVB2     | 719254         | 1406989       | 1.23%           | 0.471%        |
| 11        | 6.990       | 427           | 429         | 434          | rVB      | 2337948        | 2749903       | 2.40%           | 0.921%        |
| 12        | 7.230       | 448           | 450         | 452          | rBV      | 1168867        | 1423956       | 1.24%           | 0.477%        |
| 13        | 7.322       | 454           | 458         | 460          | rVB2     | 597256         | 1273082       | 1.11%           | 0.426%        |
| 14        | 7.413       | 464           | 466         | 467          | rBV      | 1285769        | 1659178       | 1.45%           | 0.556%        |
| 15        | 7.493       | 470           | 473         | 475          | rVB2     | 1183849        | 1418648       | 1.24%           | 0.475%        |
| 16        | 7.745       | 492           | 495         | 499          | rBV4     | 424082         | 1278730       | 1.12%           | 0.428%        |
| 17        | 7.882       | 502           | 507         | 509          | rBV4     | 1365150        | 2624067       | 2.29%           | 0.879%        |
| 18        | 7.939       | 509           | 512         | 514          | rVV2     | 1302912        | 2364365       | 2.06%           | 0.792%        |
| 19        | 7.985       | 514           | 516         | 519          | rVB2     | 1138567        | 1697581       | 1.48%           | 0.568%        |
| 20        | 8.065       | 521           | 523         | 525          | rVB2     | 1342241        | 1347664       | 1.18%           | 0.451%        |
| 21        | 8.110       | 525           | 527         | 528          | rBV      | 2125525        | 2450284       | 2.14%           | 0.820%        |
| 22        | 8.145       | 528           | 530         | 533          | rVV2     | 1424404        | 2859575       | 2.49%           | 0.957%        |
| 23        | 8.419       | 549           | 554         | 557          | rBV2     | 1866261        | 2730999       | 2.38%           | 0.914%        |
| 24        | 8.556       | 560           | 566         | 570          | rVB3     | 3343437        | 8617664       | 7.51%           | 2.885%        |
| 25        | 8.670       | 574           | 576         | 579          | rVB      | 1931418        | 2929810       | 2.55%           | 0.981%        |
| 26        | 8.716       | 579           | 580         | 582          | rBV      | 2054351        | 3080026       | 2.69%           | 1.031%        |
| 27        | 9.105       | 610           | 614         | 615          | rBV3     | 1050721        | 2362325       | 2.06%           | 0.791%        |
| 28        | 9.139       | 615           | 617         | 620          | rVV2     | 4182631        | 5353179       | 4.67%           | 1.792%        |
| 29        | 9.208       | 620           | 623         | 624          | rVV      | 3137757        | 3588484       | 3.13%           | 1.201%        |
| 30        | 9.242       | 624           | 626         | 628          | rVV      | 3098834        | 3250358       | 2.83%           | 1.088%        |
| 31        | 9.288       | 628           | 630         | 631          | rVV      | 2191479        | 1916037       | 1.67%           | 0.642%        |
| 32        | 9.539       | 649           | 652         | 656          | rBV5     | 726268         | 1703243       | 1.49%           | 0.570%        |
| 33        | 9.619       | 656           | 659         | 661          | rBV3     | 928896         | 1611274       | 1.41%           | 0.539%        |
| 34        | 9.688       | 662           | 665         | 667          | rBV      | 2486615        | 3908649       | 3.41%           | 1.309%        |

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ClientSampleId :  
E2-Z6-BASE

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-BF013017.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |           |         |         |
|----|--------|------|------|------|------|---------|-----------|---------|---------|
| 35 | 9.756  | 667  | 671  | 672  | rVV4 | 1554994 | 3742677   | 3.26%   | 1.253%  |
| 36 | 9.779  | 672  | 673  | 675  | rVB  | 3390220 | 2554455   | 2.23%   | 0.855%  |
| 37 | 9.813  | 675  | 676  | 680  | rVB  | 2747231 | 2462852   | 2.15%   | 0.825%  |
| 38 | 9.882  | 680  | 682  | 685  | rVB2 | 1172498 | 1733770   | 1.51%   | 0.580%  |
| 39 | 10.145 | 701  | 705  | 706  | rBV2 | 1683429 | 2547915   | 2.22%   | 0.853%  |
| 40 | 10.191 | 707  | 709  | 711  | rBV  | 2719575 | 3305948   | 2.88%   | 1.107%  |
| 41 | 10.282 | 715  | 717  | 719  | rVB  | 2036011 | 1686138   | 1.47%   | 0.565%  |
| 42 | 10.373 | 721  | 725  | 729  | rBV2 | 1063507 | 2026805   | 1.77%   | 0.679%  |
| 43 | 10.613 | 742  | 746  | 747  | rBV2 | 709466  | 1233649   | 1.08%   | 0.413%  |
| 44 | 10.682 | 748  | 752  | 754  | rBV2 | 2296930 | 3568642   | 3.11%   | 1.195%  |
| 45 | 10.762 | 757  | 759  | 760  | rBV  | 1497283 | 1629518   | 1.42%   | 0.546%  |
| 46 | 10.796 | 760  | 762  | 763  | rVB  | 1646825 | 2025073   | 1.77%   | 0.678%  |
| 47 | 10.876 | 766  | 769  | 771  | rBV2 | 1371973 | 1785249   | 1.56%   | 0.598%  |
| 48 | 11.139 | 782  | 792  | 794  | rBV  | 4710668 | 17168814  | 14.97%  | 5.748%  |
| 49 | 11.231 | 797  | 800  | 804  | rVB5 | 770321  | 2025181   | 1.77%   | 0.678%  |
| 50 | 11.368 | 810  | 812  | 816  | rBV2 | 712019  | 1212462   | 1.06%   | 0.406%  |
| 51 | 11.436 | 816  | 818  | 819  | rBV  | 1757272 | 2298108   | 2.00%   | 0.769%  |
| 52 | 11.482 | 819  | 822  | 823  | rVB  | 1274939 | 2036615   | 1.78%   | 0.682%  |
| 53 | 11.596 | 827  | 832  | 835  | rVV5 | 626840  | 1415665   | 1.23%   | 0.474%  |
| 54 | 12.225 | 858  | 887  | 895  | rBV3 | 6581590 | 114677714 | 100.00% | 38.395% |
| 55 | 12.568 | 915  | 917  | 920  | rVB2 | 1639594 | 2621698   | 2.29%   | 0.878%  |
| 56 | 12.831 | 927  | 940  | 943  | rBV6 | 3124478 | 25994235  | 22.67%  | 8.703%  |
| 57 | 17.426 | 1338 | 1342 | 1345 | rBV2 | 738290  | 2068742   | 1.80%   | 0.693%  |
| 58 | 18.146 | 1397 | 1405 | 1416 | rVB  | 1987266 | 6957328   | 6.07%   | 2.329%  |
| 59 | 18.409 | 1425 | 1428 | 1439 | rVB2 | 409802  | 1363753   | 1.19%   | 0.457%  |

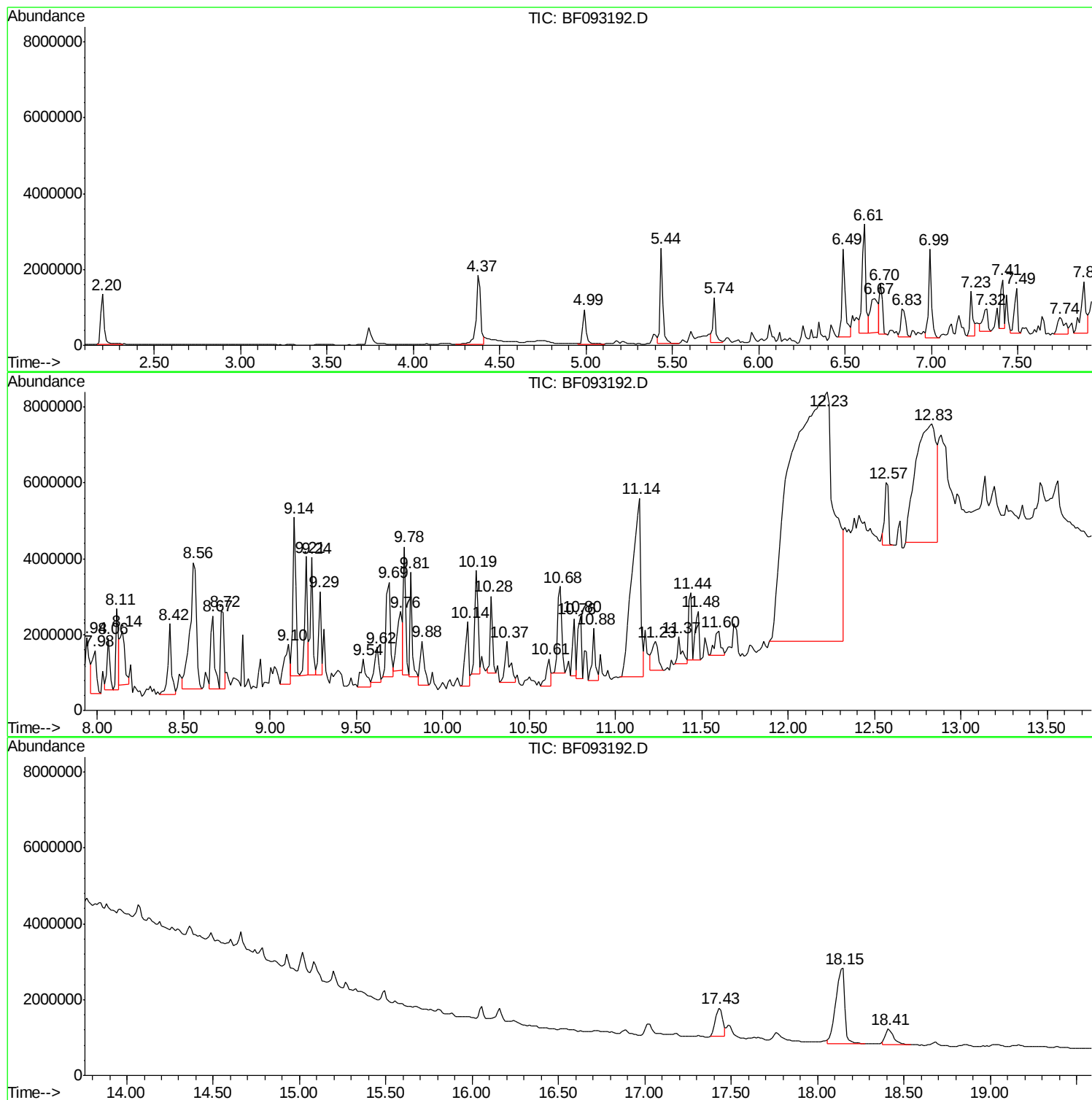
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Misc :  
ALS Vial : 45 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.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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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

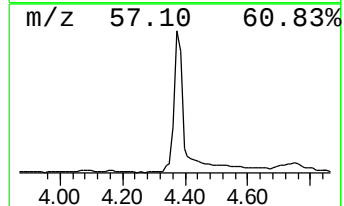
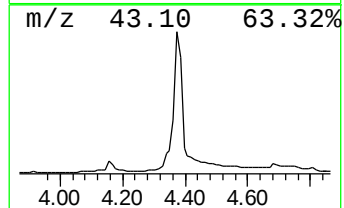
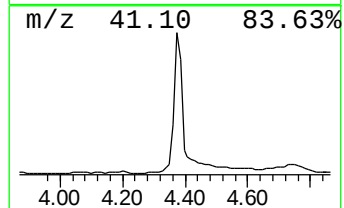
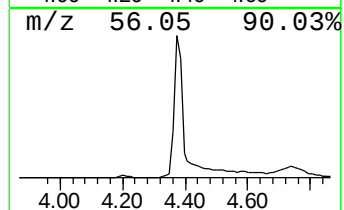
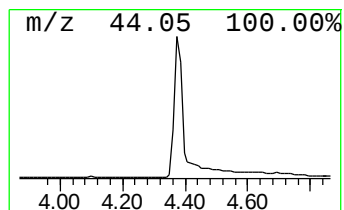
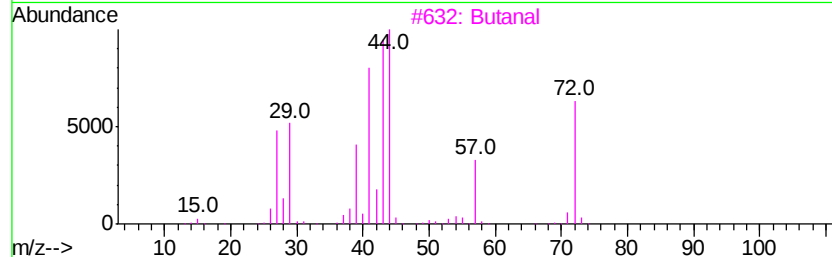
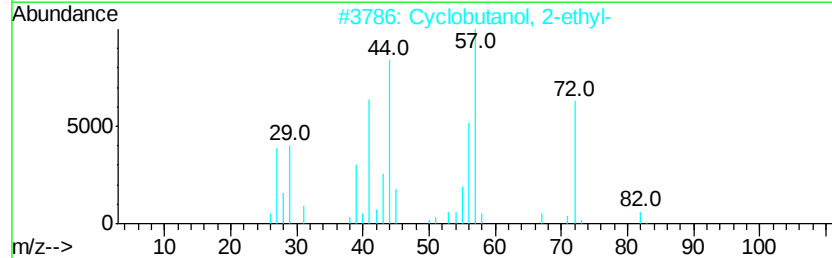
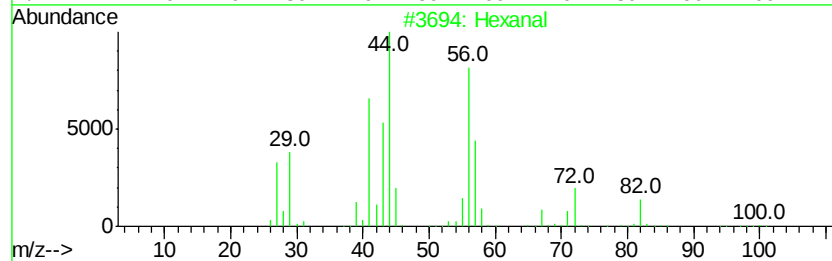
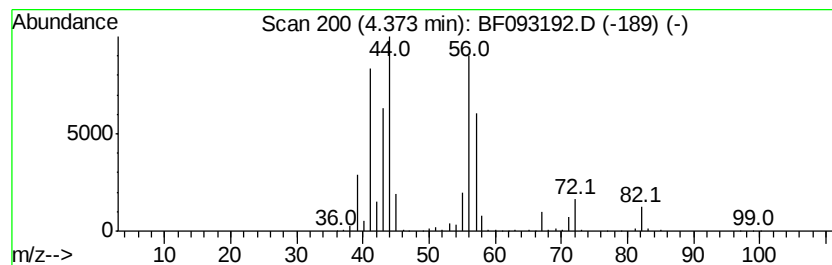
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Hexanal Concentration Rank 7

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.37 | 47.37 ng | 3332190 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# of | 5                          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexanal                    |              | 100 | C6H12O  | 000066-25-1 | 83   |
| 2       | Cyclobutanol, 2-ethyl-     |              | 100 | C6H12O  | 035301-43-0 | 45   |
| 3       | Butanal                    |              | 72  | C4H8O   | 000123-72-8 | 38   |
| 4       | Formic acid, ethenyl ester |              | 72  | C3H4O2  | 000692-45-5 | 35   |
| 5       | Aziridine, 2-methyl-       |              | 57  | C3H7N   | 000075-55-8 | 27   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

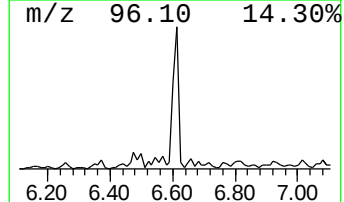
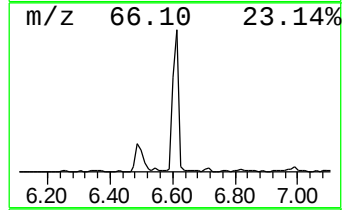
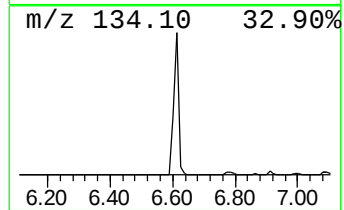
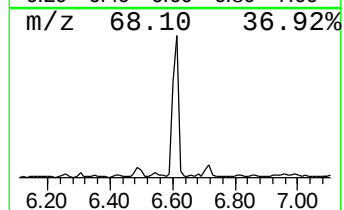
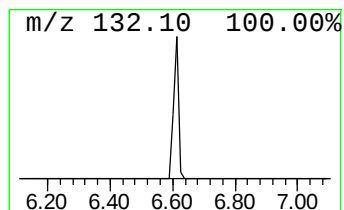
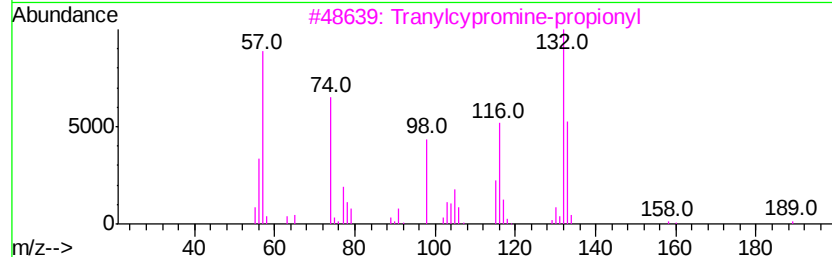
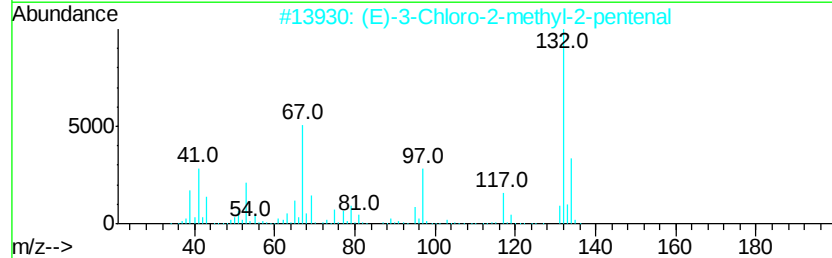
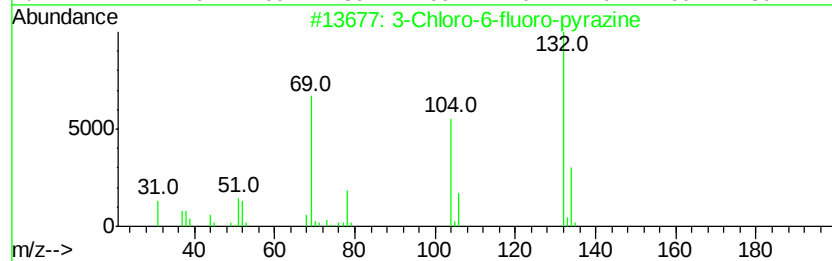
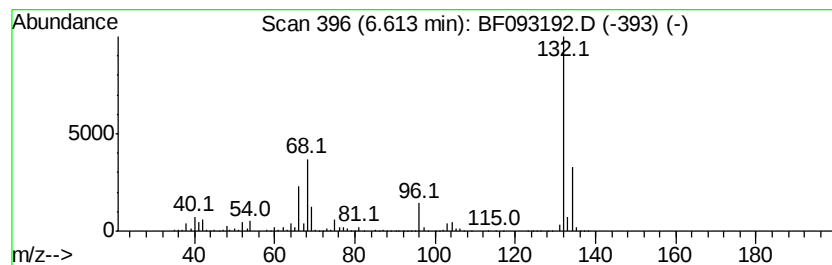
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.61 Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.61 | 63.45 ng | 4463760 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

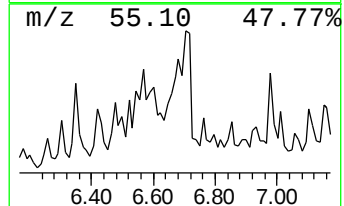
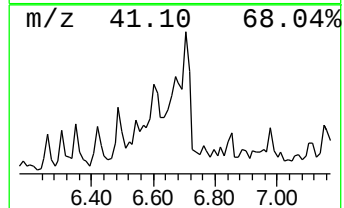
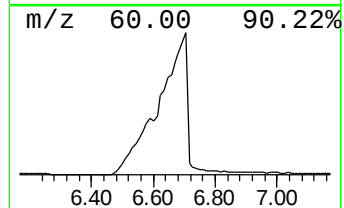
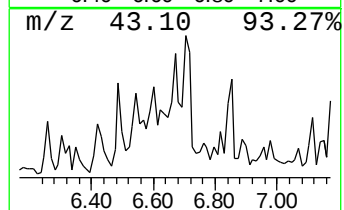
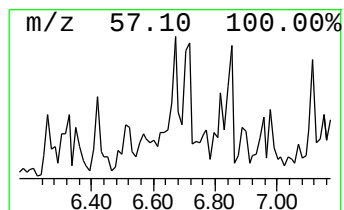
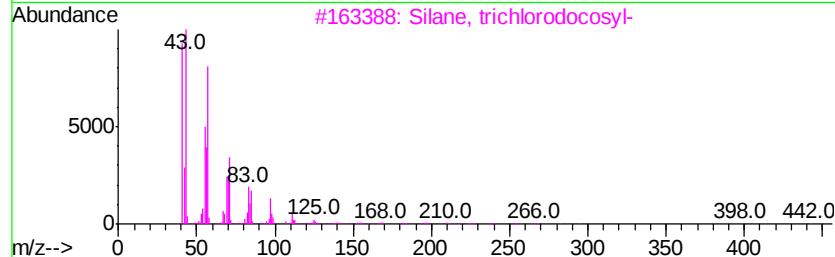
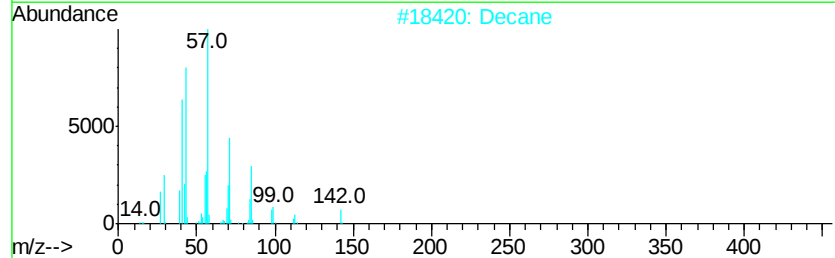
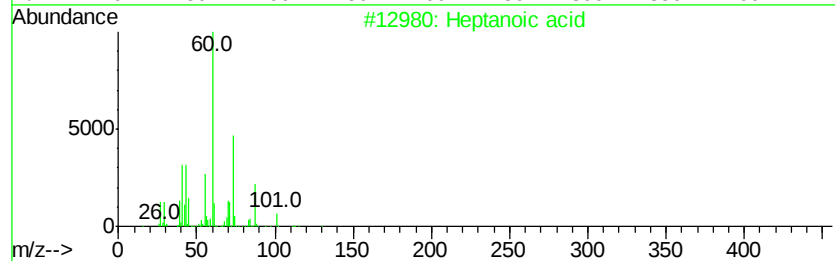
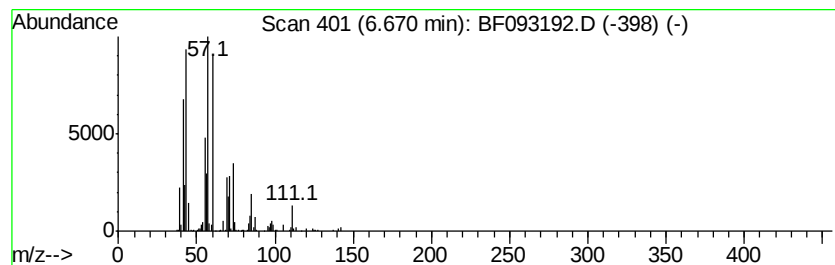
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.67 Concentration Rank 12

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 38.37 ng | 2699540 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm     | CAS#        | Qual |
|---------|---|---------------------------|-----|-------------|-------------|------|
| 1       |   | Heptanoic acid            | 130 | C7H14O2     | 000111-14-8 | 38   |
| 2       |   | Decane                    | 142 | C10H22      | 000124-18-5 | 35   |
| 3       |   | Silane, trichlorodocosyl- | 442 | C22H45Cl3Si | 007325-84-0 | 30   |
| 4       |   | Ether, heptyl hexyl       | 200 | C13H28O     | 007289-40-9 | 14   |
| 5       |   | Undecane                  | 156 | C11H24      | 001120-21-4 | 14   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

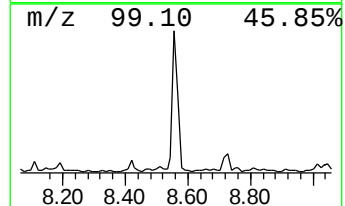
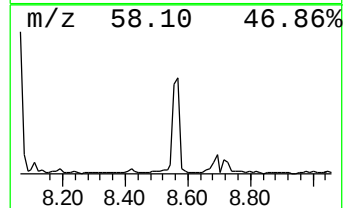
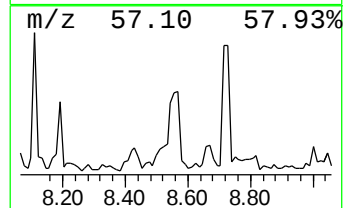
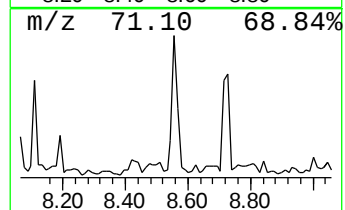
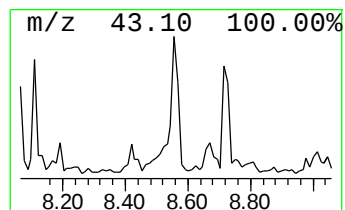
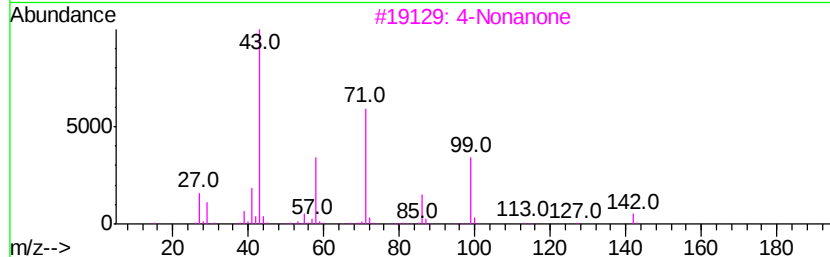
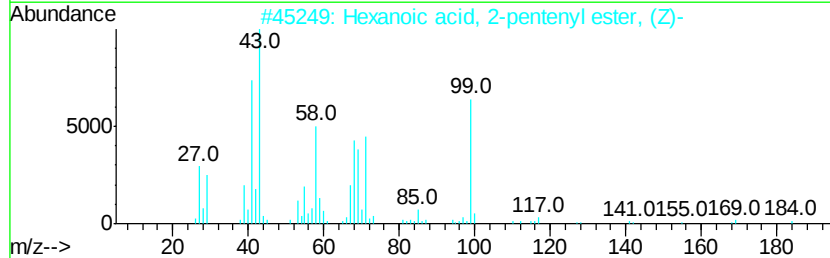
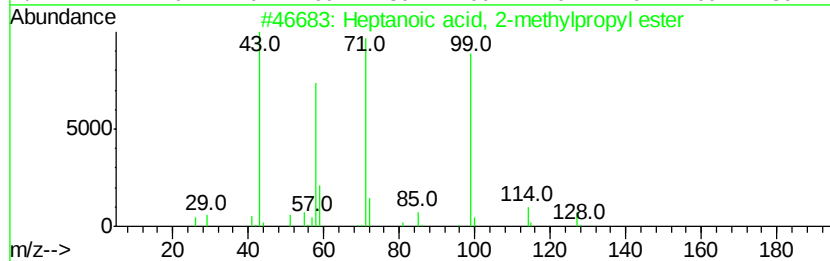
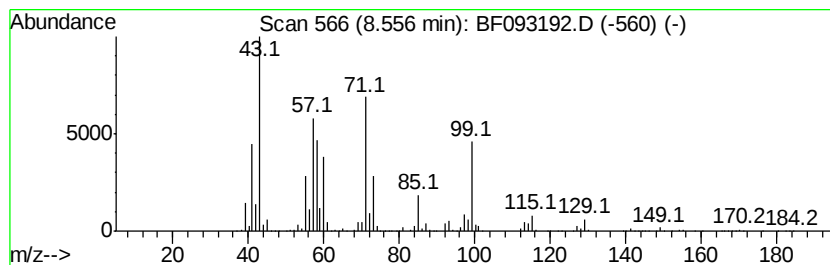
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptanoic acid, 2-methylpro... Concentration Rank 6

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.56 | 60.27 ng | 8617660 | Naphthalene-d8   | 8.13 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Heptanoic acid, 2-methylpropyl e... | 186 | C11H22O2 | 007779-80-8 | 50   |
| 2       |   | Hexanoic acid, 2-pentenyl ester,... | 184 | C11H20O2 | 074298-89-8 | 43   |
| 3       |   | 4-Nonanone                          | 142 | C9H18O   | 004485-09-0 | 43   |
| 4       |   | 6-Undecanone                        | 170 | C11H22O  | 000927-49-1 | 40   |
| 5       |   | Cyclopentanol, 1-methyl-            | 100 | C6H12O   | 001462-03-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

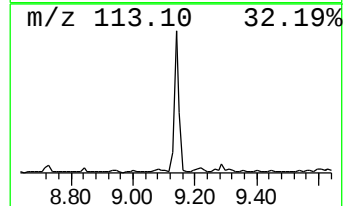
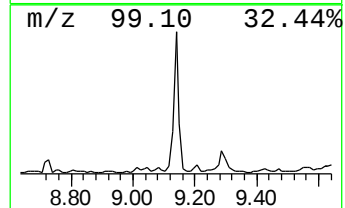
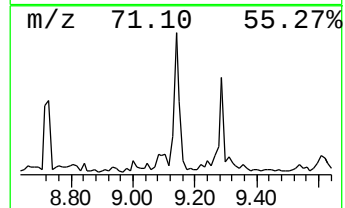
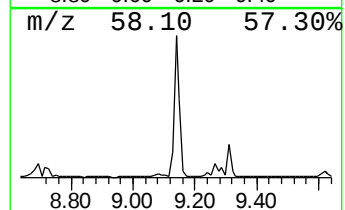
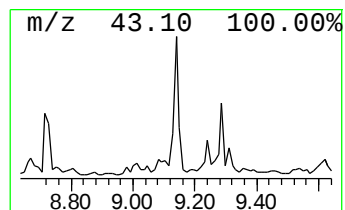
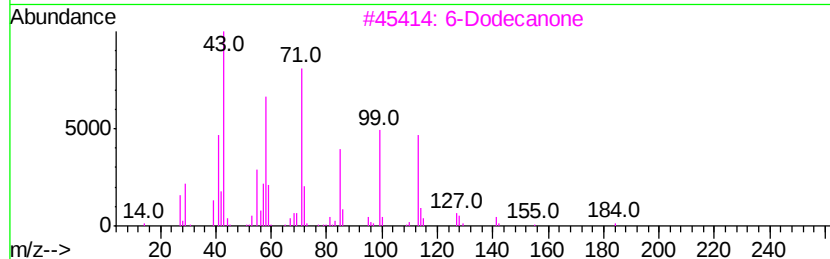
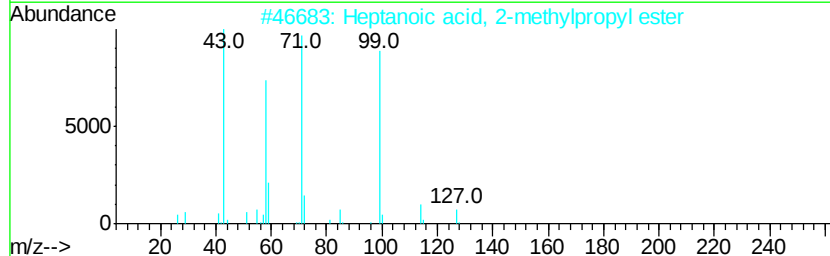
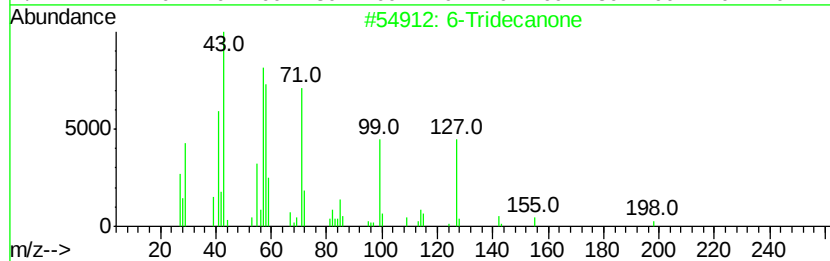
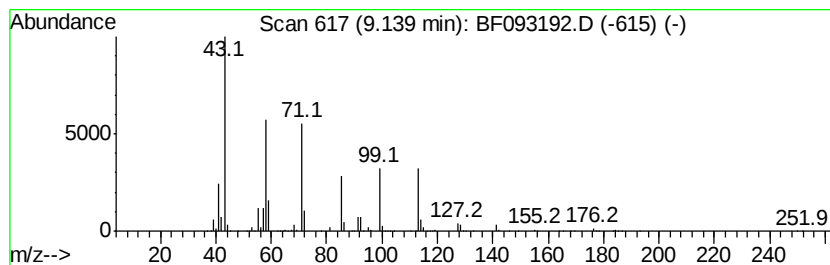
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 6-Tridecanone Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.14 | 61.75 ng | 5353180 | Acenaphthene-d10 | 9.88 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|----------|-------------|------|
| 1       | 6-Tridecanone                       |              | 198 | C13H26O  | 022026-12-6 | 59   |
| 2       | Heptanoic acid, 2-methylpropyl e... |              | 186 | C11H22O2 | 007779-80-8 | 59   |
| 3       | 6-Dodecanone                        |              | 184 | C12H24O  | 006064-27-3 | 58   |
| 4       | 6-Undecanone                        |              | 170 | C11H22O  | 000927-49-1 | 53   |
| 5       | 4-Decanone                          |              | 156 | C10H20O  | 000624-16-8 | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

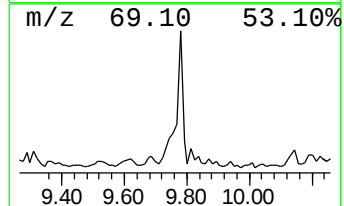
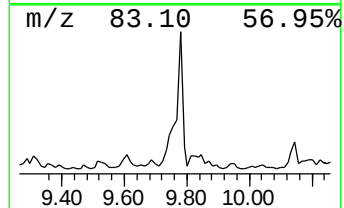
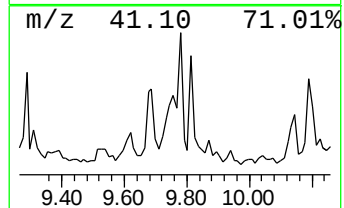
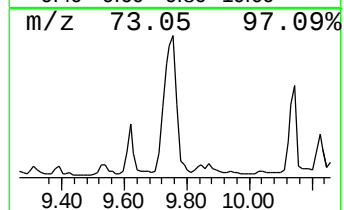
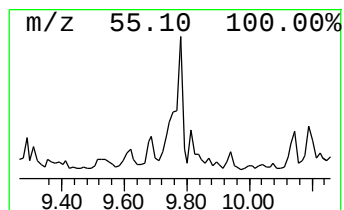
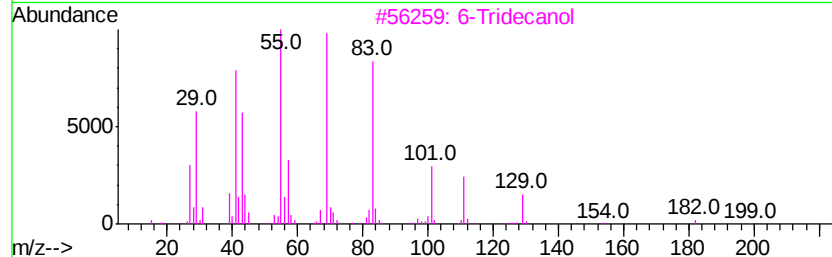
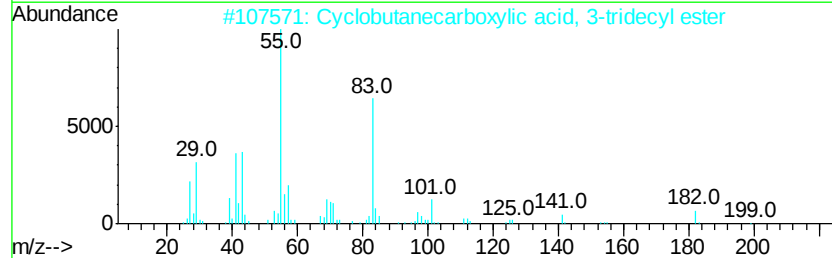
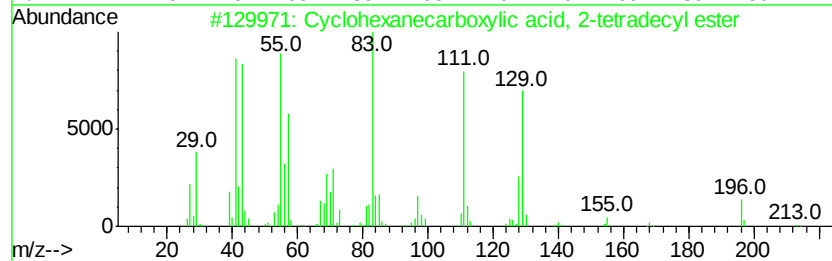
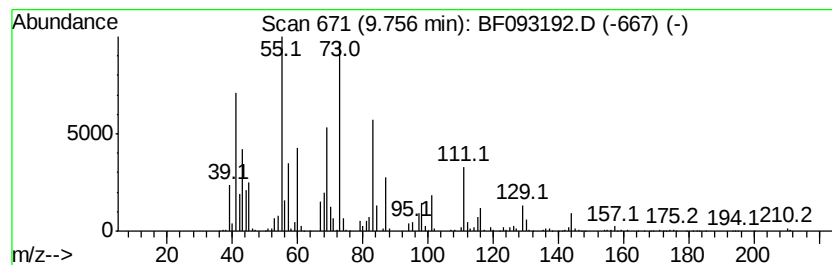
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown9.76 Concentration Rank 10

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.76 | 43.17 ng | 3742680 | Acenaphthene-d10 | 9.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Cyclohexanecarboxylic acid, 2-te... | 324 | C21H40O2 | 1000280-59-6 | 27   |
| 2    |    | Cyclobutanecarboxylic acid, 3-tr... | 282 | C18H34O2 | 1000280-57-6 | 22   |
| 3    |    | 6-Tridecanol                        | 200 | C13H28O  | 005770-03-6  | 22   |
| 4    |    | Cyclobutanecarboxylic acid, prop... | 142 | C8H14O2  | 1000280-40-0 | 22   |
| 5    |    | Cyclobutanecarboxylic acid, 3-pe... | 310 | C20H38O2 | 1000280-58-2 | 22   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

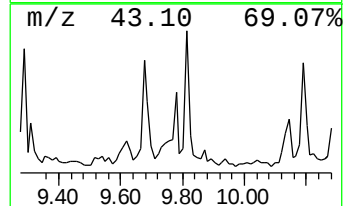
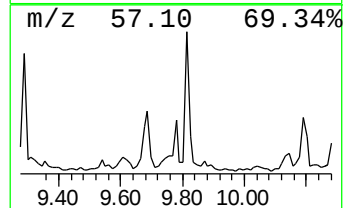
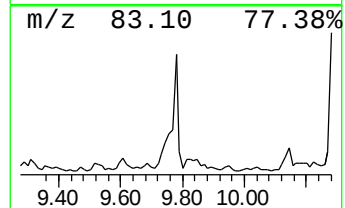
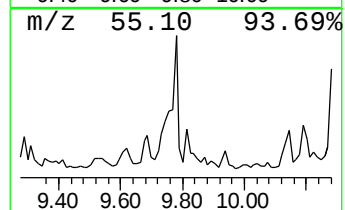
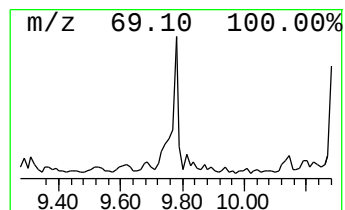
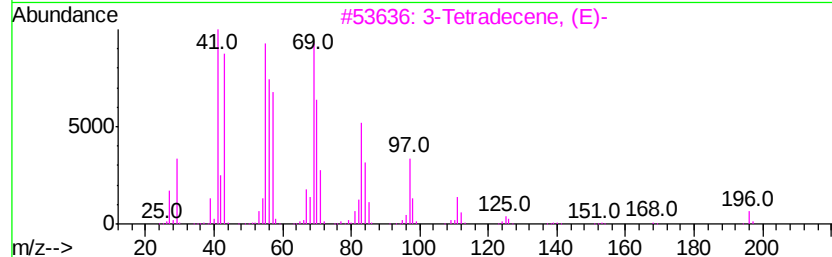
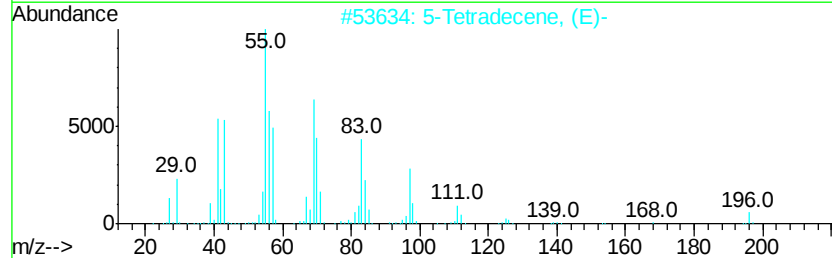
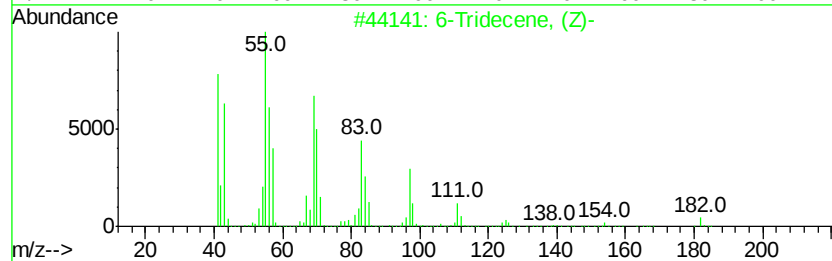
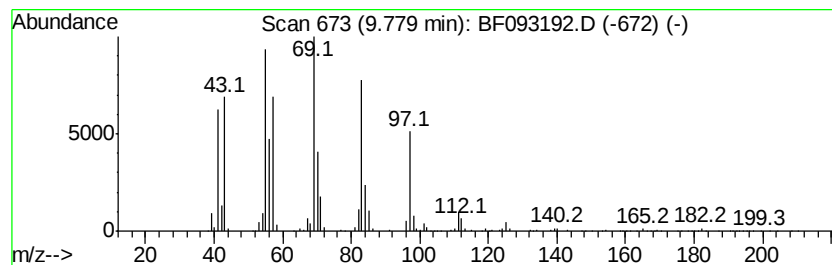
Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 6-Tridecene, (Z)- Concentration Rank 17

| R.T.    | EstConc                            | Area         | Relative to ISTD | R.T.      |
|---------|------------------------------------|--------------|------------------|-----------|
| 9.78    | 29.47 ng                           | 2554460      | Acenaphthene-d10 | 9.88      |
| Hit# of | 5                                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 6-Tridecene, (Z)-                  | 182 C13H26   | 006508-77-6      | 50        |
| 2       | 5-Tetradecene, (E)-                | 196 C14H28   | 041446-66-6      | 43        |
| 3       | 3-Tetradecene, (E)-                | 196 C14H28   | 041446-68-8      | 43        |
| 4       | 3-Tetradecene, (Z)-                | 196 C14H28   | 041446-67-7      | 43        |
| 5       | Cyclooctane, 1,4-dimethyl-, trans- | 140 C10H20   | 013151-98-9      | 41        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

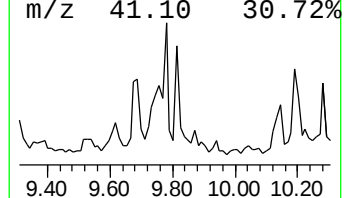
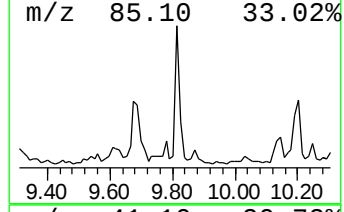
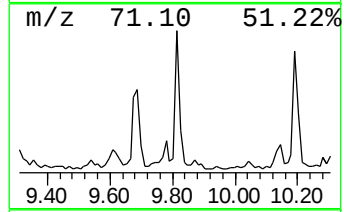
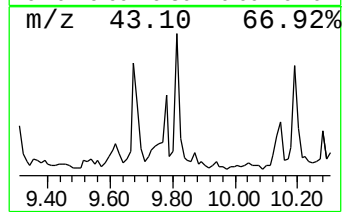
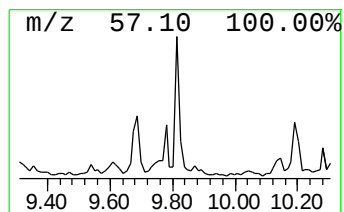
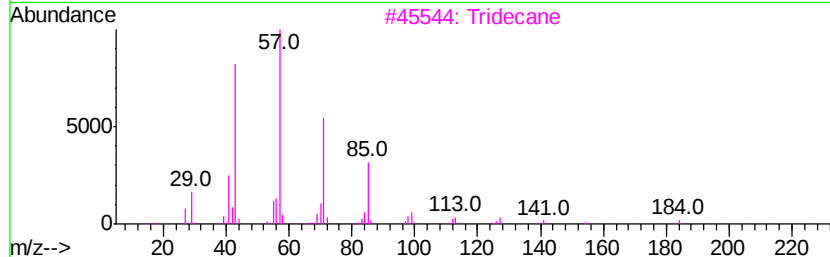
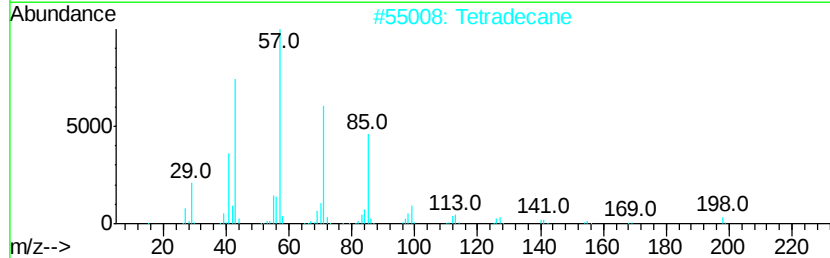
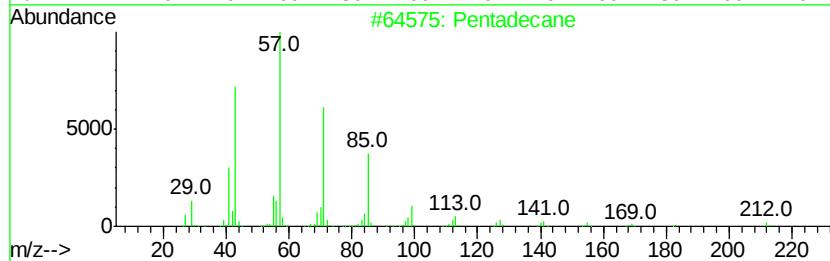
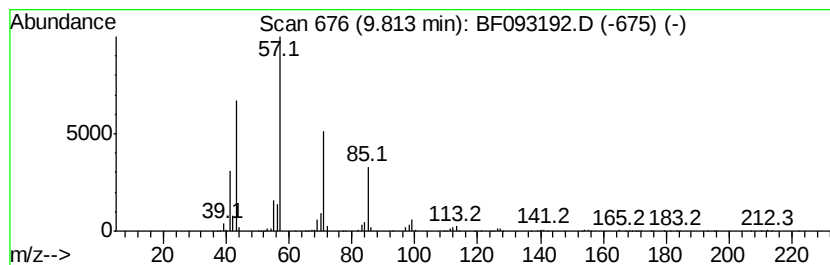
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Pentadecane Concentration Rank 20

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.81 | 28.41 ng | 2462850 | Acenaphthene-d10 | 9.88 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane           | 212 | C15H32  | 000629-62-9 | 90   |
| 2    |    | Tetradecane           | 198 | C14H30  | 000629-59-4 | 90   |
| 3    |    | Tridecane             | 184 | C13H28  | 000629-50-5 | 90   |
| 4    |    | Hexadecane            | 226 | C16H34  | 000544-76-3 | 90   |
| 5    |    | Decane, 2,9-dimethyl- | 170 | C12H26  | 001002-17-1 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

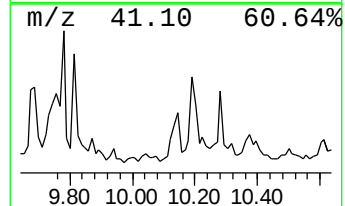
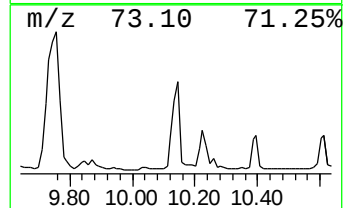
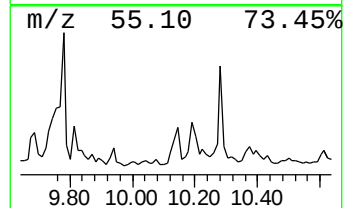
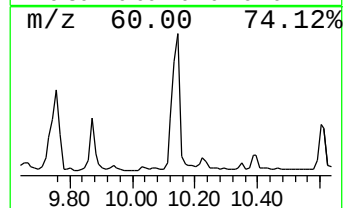
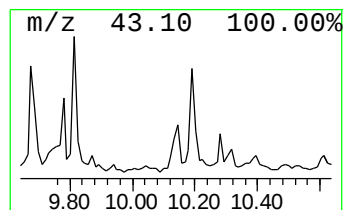
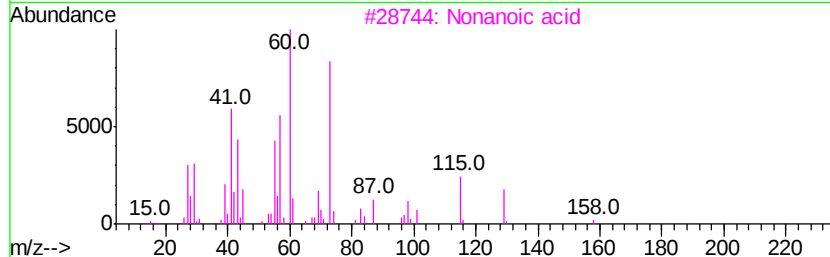
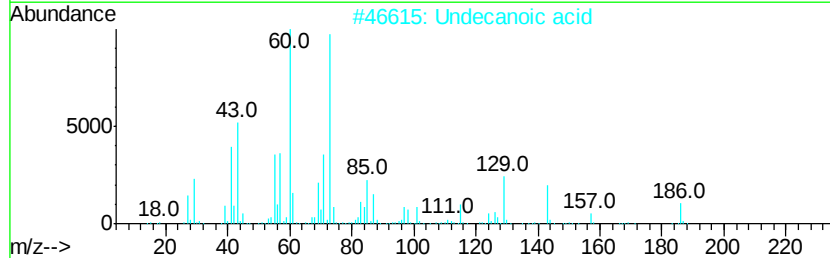
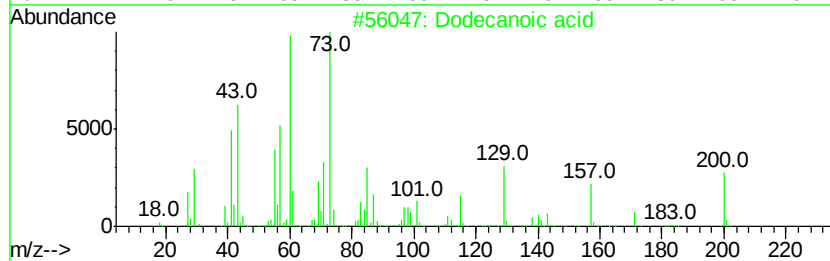
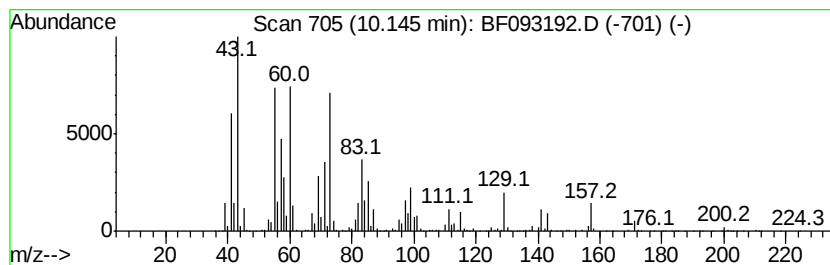
Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.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 Dodecanoic acid Concentration Rank 19

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 10.14   | 29.39 ng                            | 2547920      | Acenaphthene-d10 | 9.88      |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Dodecanoic acid                     | 200 C12H24O2 | 000143-07-7      | 64        |
| 2       | Undecanoic acid                     | 186 C11H22O2 | 000112-37-8      | 50        |
| 3       | Nonanoic acid                       | 158 C9H18O2  | 000112-05-0      | 43        |
| 4       | n-Decanoic acid                     | 172 C10H20O2 | 000334-48-5      | 43        |
| 5       | Ethanone, 1-(4,5-dihydro-2-thiaz... | 129 C5H7NOS  | 029926-41-8      | 38        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

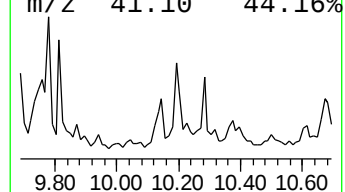
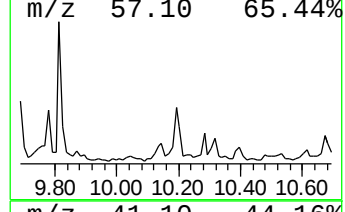
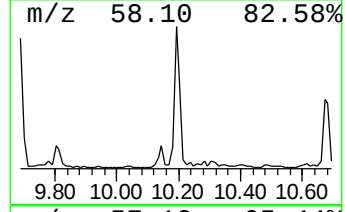
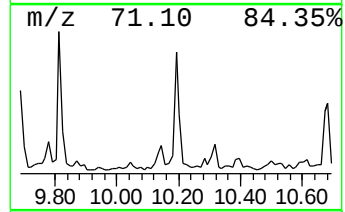
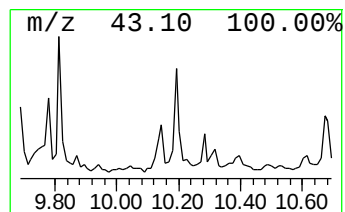
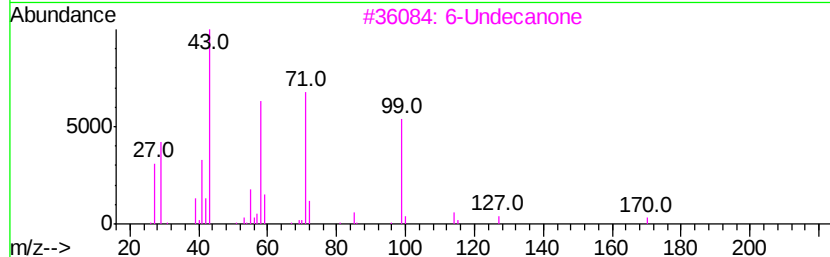
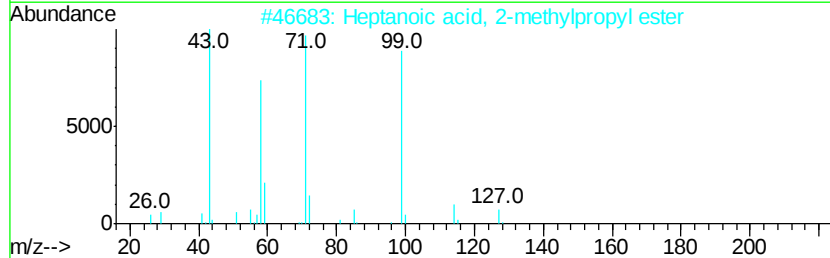
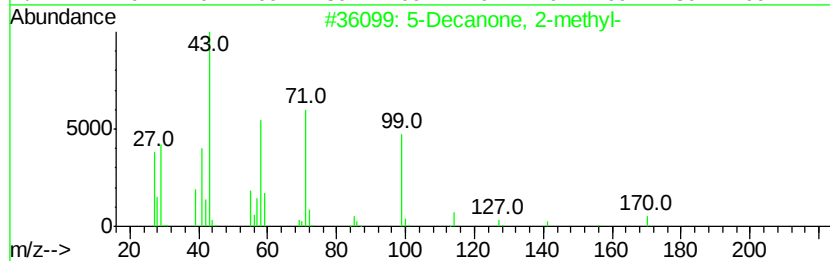
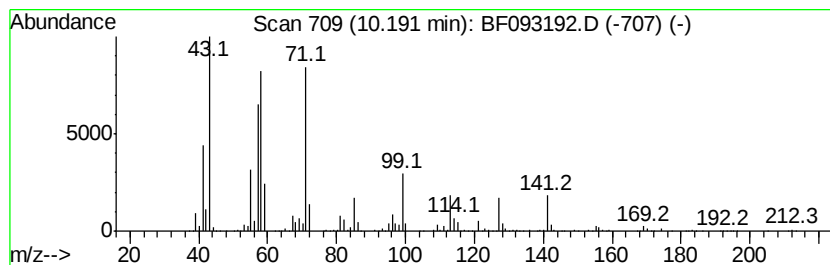
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 5-Decanone, 2-methyl- Concentration Rank 13

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T. |
|-------|----------|---------|------------------|------|
| 10.19 | 38.14 ng | 3305950 | Acenaphthene-d10 | 9.88 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | 5-Decanone, 2-methyl-               | 170 | C11H22O     | 054410-89-8  | 72   |
| 2    |    |   | Heptanoic acid, 2-methylpropyl e... | 186 | C11H22O2    | 007779-80-8  | 72   |
| 3    |    |   | 6-Undecanone                        | 170 | C11H22O     | 000927-49-1  | 64   |
| 4    |    |   | 6-Tetradecanone                     | 212 | C14H28O     | 006836-42-6  | 50   |
| 5    |    |   | 4-Methylpentyl S-2-(dimethylamin... | 295 | C13H30N02PS | 1000298-41-3 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

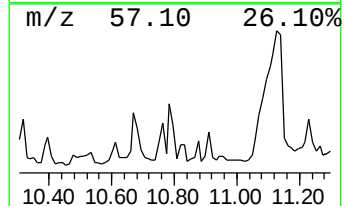
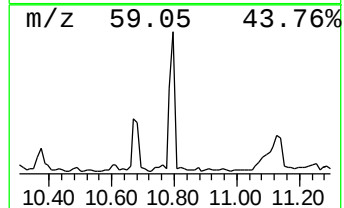
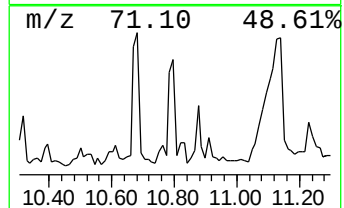
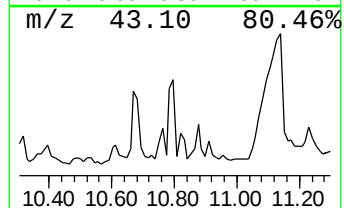
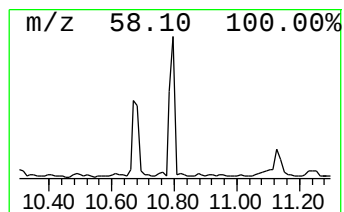
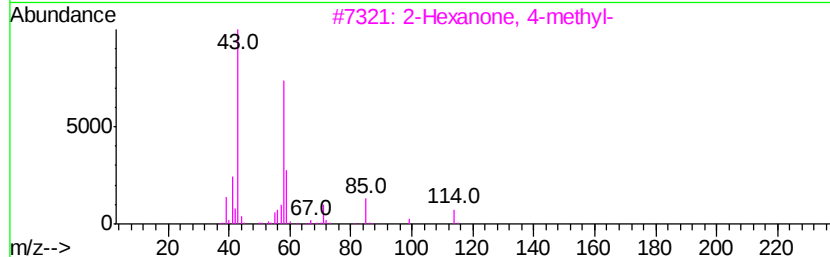
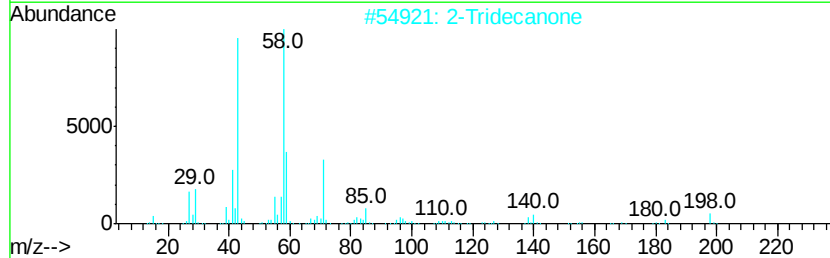
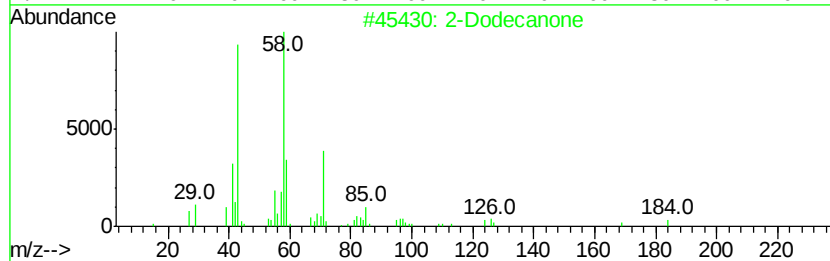
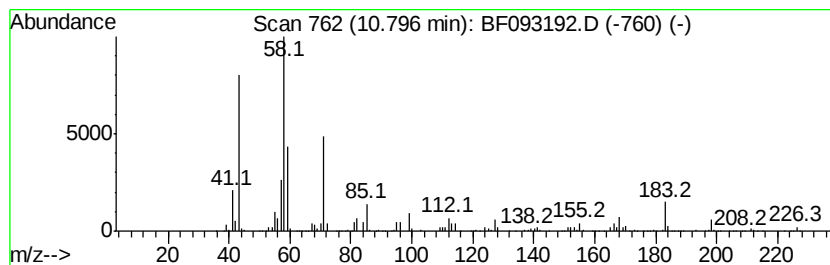
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ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 2-Dodecanone Concentration Rank 16

| R.T.      | EstConc                         | Area    | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------|---------|------------------|-------------|------|
| 10.80     | 33.40 ng                        | 2025070 | Phenanthrene-d10 | 11.37       |      |
| Hit# of 5 | Tentative ID                    | MW      | MolForm          | CAS#        | Qual |
| 1         | 2-Dodecanone                    | 184     | C12H24O          | 006175-49-1 | 87   |
| 2         | 2-Tridecanone                   | 198     | C13H26O          | 000593-08-8 | 83   |
| 3         | 2-Hexanone, 4-methyl-           | 114     | C7H14O           | 000105-42-0 | 50   |
| 4         | Butanimidamide                  | 86      | C4H10N2          | 000107-90-4 | 43   |
| 5         | 2-Hexanone, 4-hydroxy-3-propyl- | 158     | C9H18O2          | 062338-17-4 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

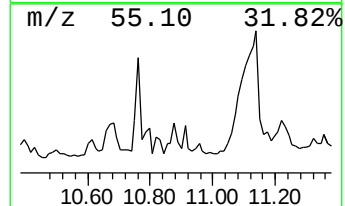
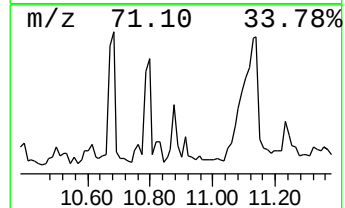
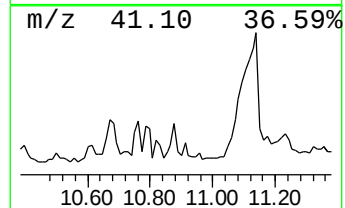
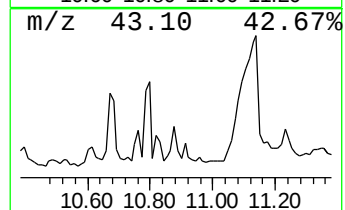
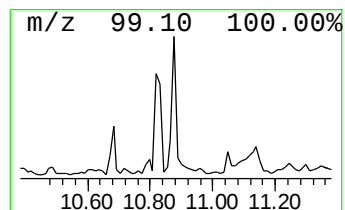
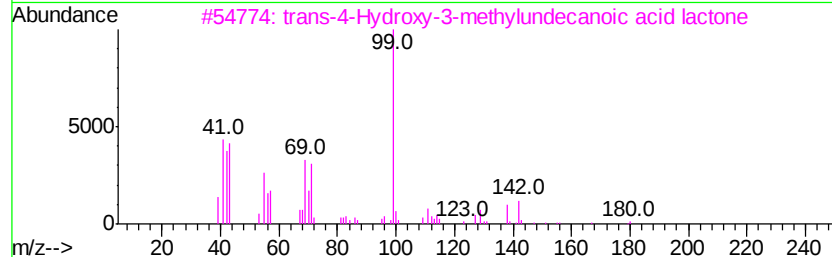
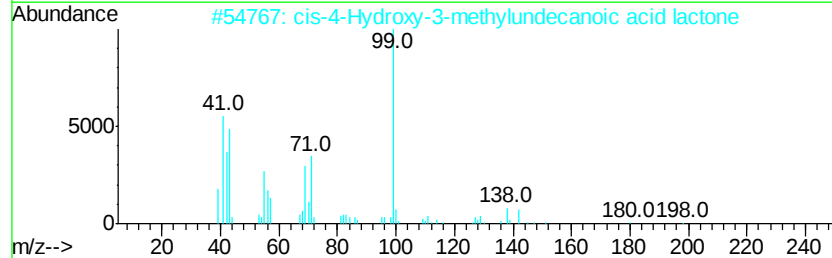
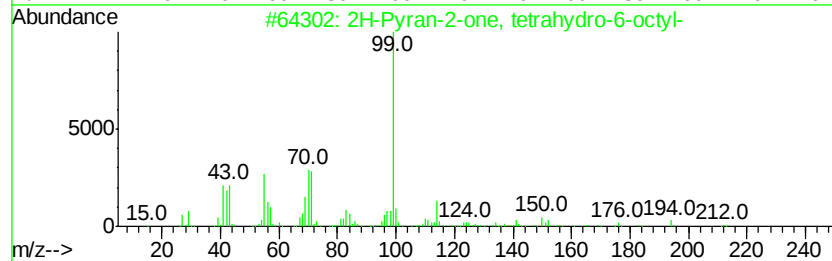
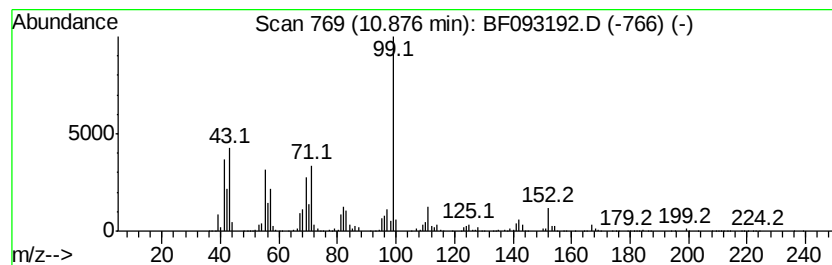
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 2H-Pyran-2-one, tetrahydro-... Concentration Rank 18

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 10.88 | 29.45 ng | 1785250 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 2H-Pyran-2-one, tetrahydro-6-octyl- | 212 | C13H24O2 | 007370-92-5  | 64   |
| 2    |    | cis-4-Hydroxy-3-methylundecanoic... | 198 | C12H22O2 | 148806-09-1  | 59   |
| 3    |    | trans-4-Hydroxy-3-methylundecano... | 198 | C12H22O2 | 148806-10-4  | 59   |
| 4    |    | Hexanoic acid, 6-tridecyl ester     | 298 | C19H38O2 | 1000279-29-5 | 59   |
| 5    |    | 4H-Imidazol-4-one, 2-amino-1,5-d... | 99  | C3H5N3O  | 000503-86-6  | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

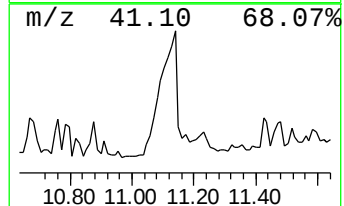
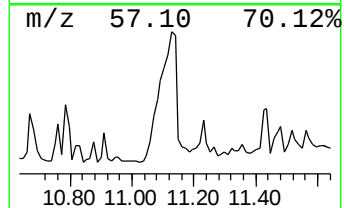
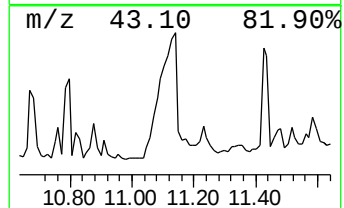
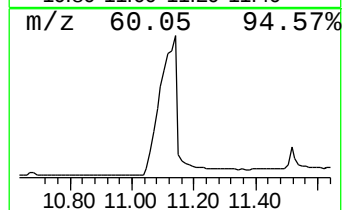
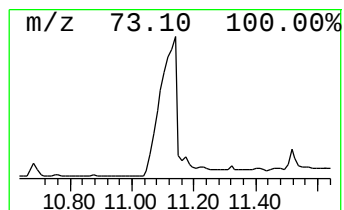
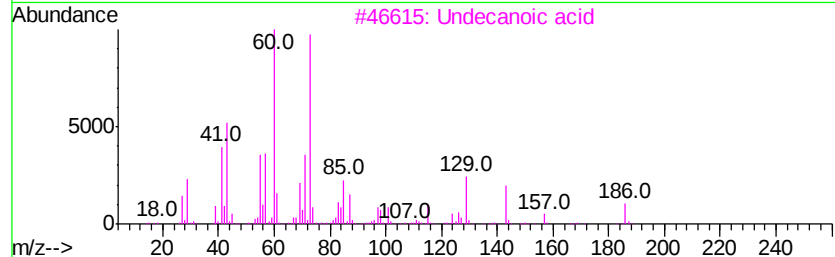
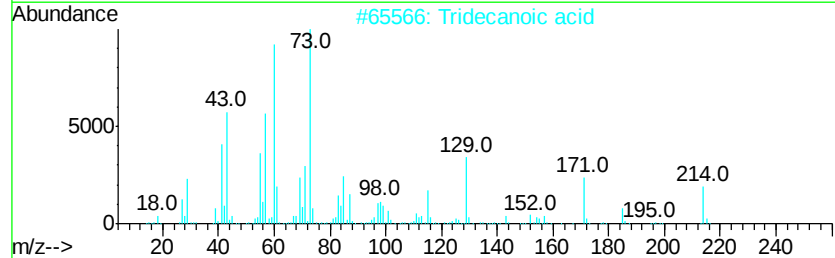
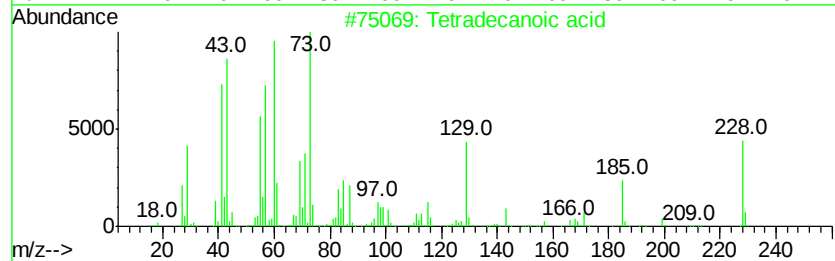
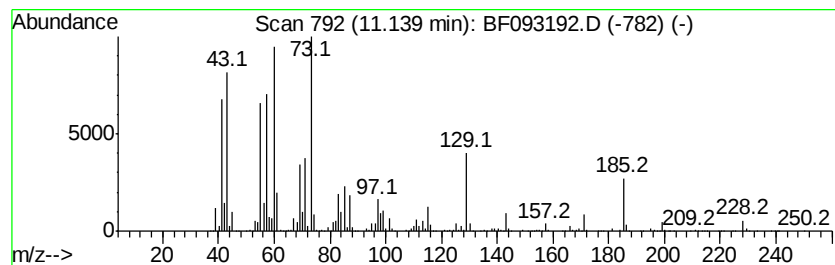
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Tetradecanoic acid Concentration Rank 2

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 11.14 | 283.21 ng | 17168800 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 97   |
| 2    |    | Tridecanoic acid   | 214 | C13H26O2 | 000638-53-9 | 86   |
| 3    |    | Undecanoic acid    | 186 | C11H22O2 | 000112-37-8 | 68   |
| 4    |    | Dodecanoic acid    | 200 | C12H24O2 | 000143-07-7 | 64   |
| 5    |    | n-Decanoic acid    | 172 | C10H20O2 | 000334-48-5 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

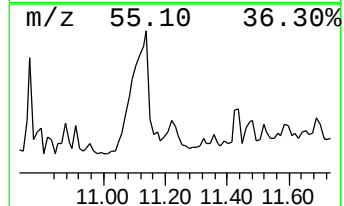
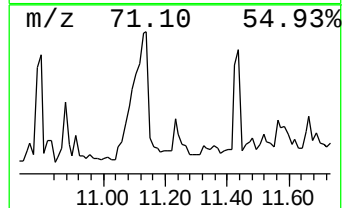
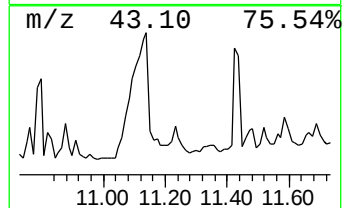
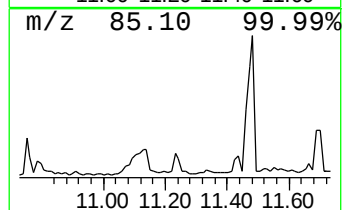
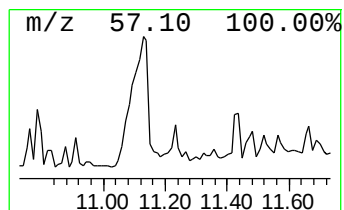
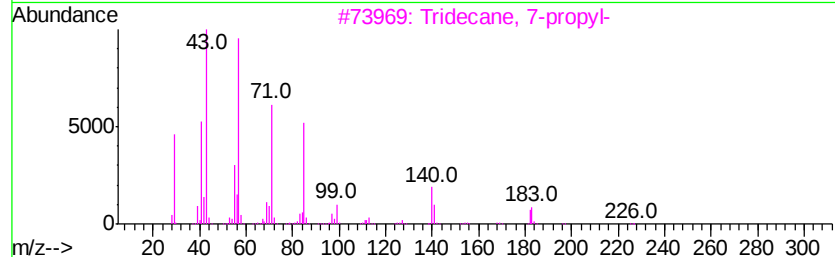
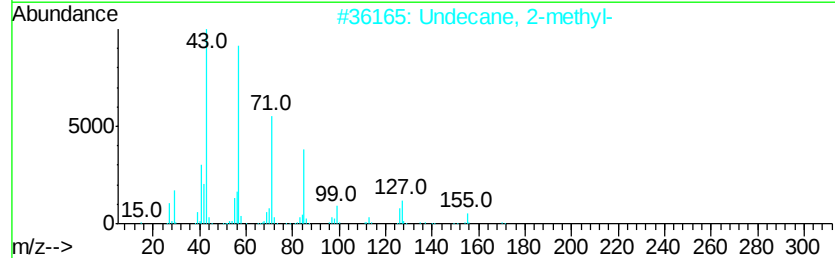
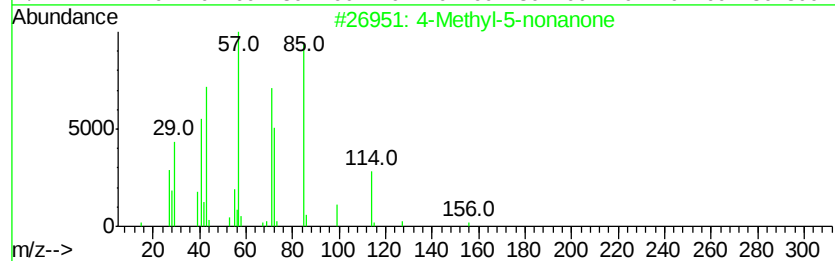
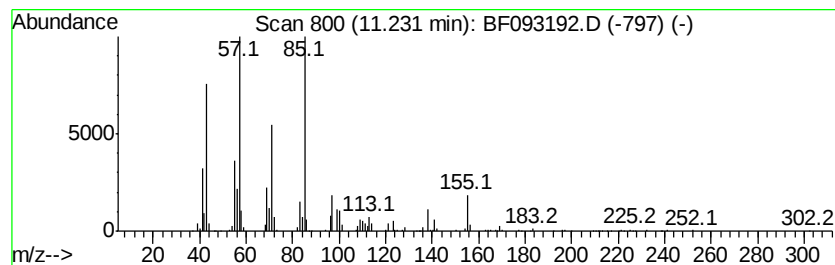
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 4-Methyl-5-nonanone Concentration Rank 15

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.23 | 33.41 ng | 2025180 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | 4-Methyl-5-nonanone         | 156 | C10H20O | 035900-26-6 | 64   |
| 2    |    | Undecane, 2-methyl-         | 170 | C12H26  | 007045-71-8 | 43   |
| 3    |    | Tridecane, 7-propyl-        | 226 | C16H34  | 055045-09-5 | 43   |
| 4    |    | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 42   |
| 5    |    | Undecane                    | 156 | C11H24  | 001120-21-4 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

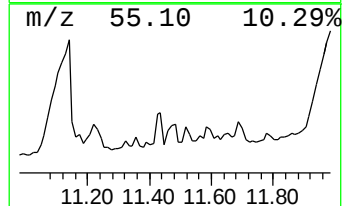
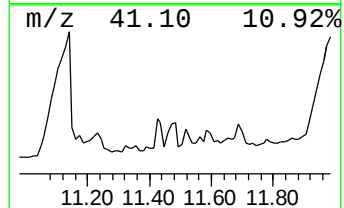
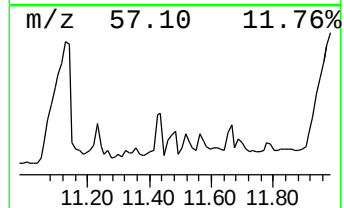
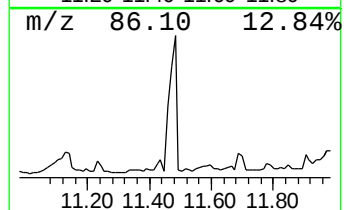
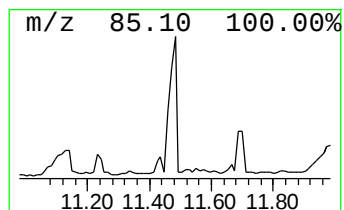
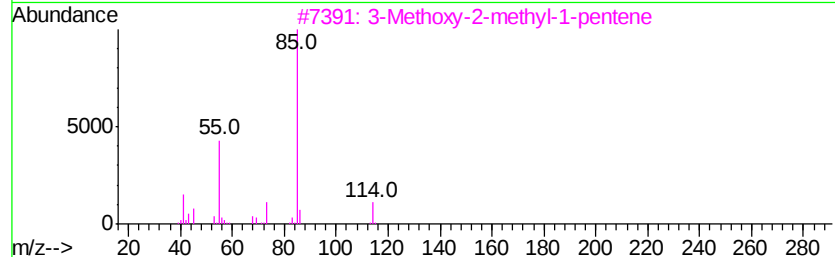
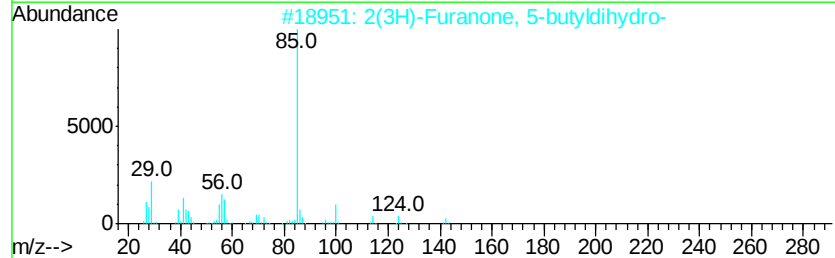
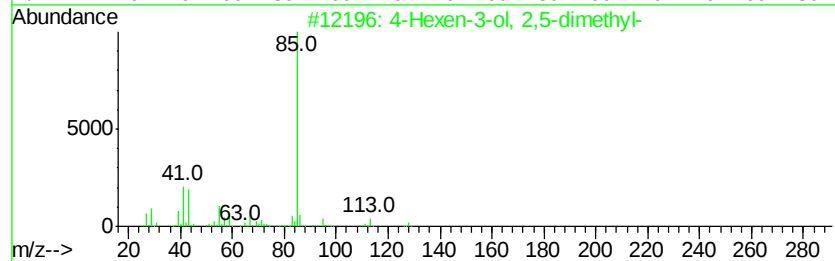
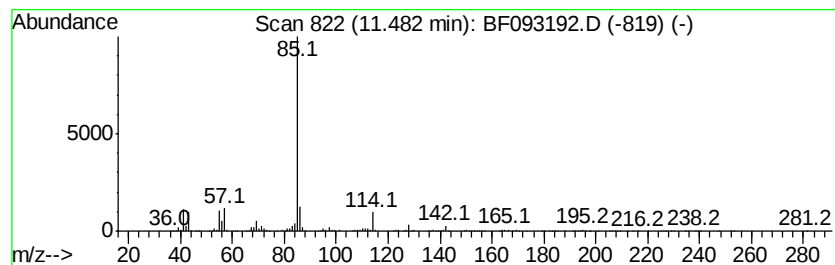
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 4-Hexen-3-ol, 2,5-dimethyl- Concentration Rank 14

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.48 | 33.59 ng | 2036620 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 4-Hexen-3-ol, 2,5-dimethyl-          | 128 | C8H16O   | 060703-31-3  | 59   |
| 2    |    | 2(3H)-Furanone, 5-butylidihydro-     | 142 | C8H14O2  | 000104-50-7  | 56   |
| 3    |    | 3-Methoxy-2-methyl-1-pentene         | 114 | C7H14O   | 108811-45-6  | 45   |
| 4    |    | 10-(Tetrahydro-pyran-2-yl)oxy)-tr... | 252 | C15H24O3 | 1000192-28-8 | 45   |
| 5    |    | E-4-Methoxy-2-hexene                 | 114 | C7H14O   | 1000279-61-2 | 45   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

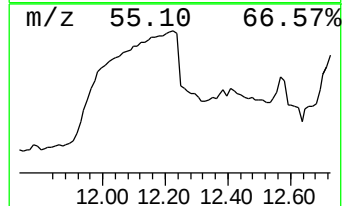
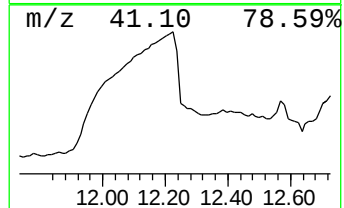
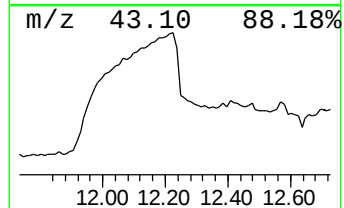
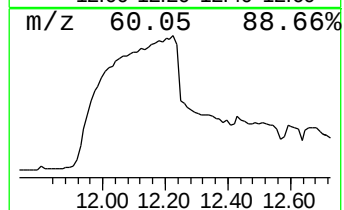
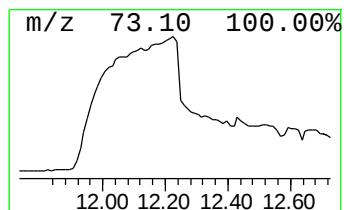
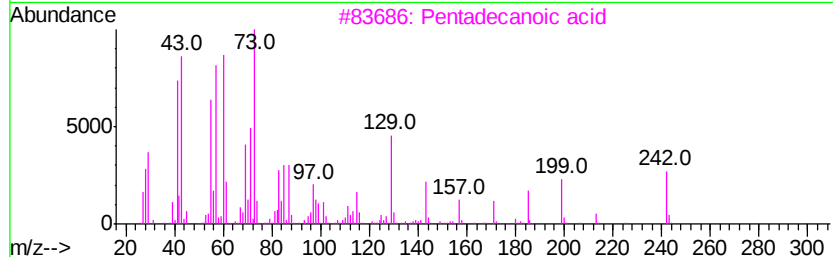
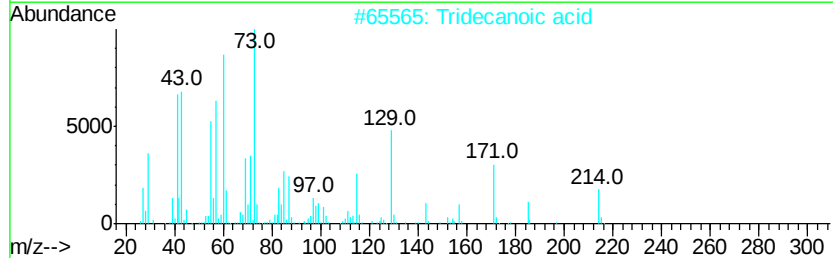
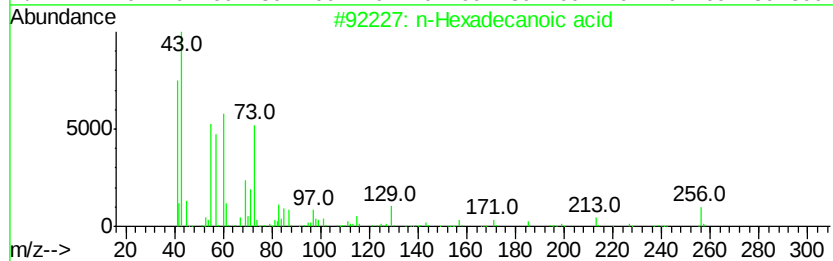
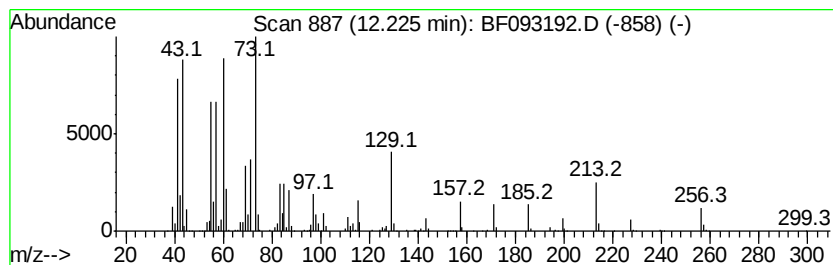
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 n-Hexadecanoic acid Concentration Rank 1

| R.T.  | EstConc    | Area      | Relative to ISTD | R.T.  |
|-------|------------|-----------|------------------|-------|
| 12.23 | 1891.65 ng | 114678000 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 80   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 70   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

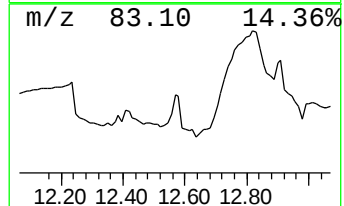
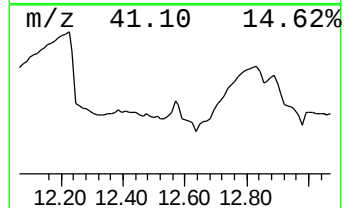
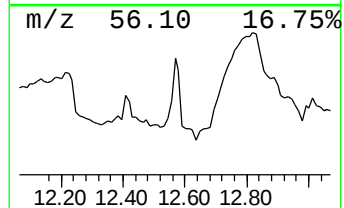
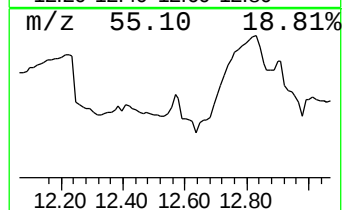
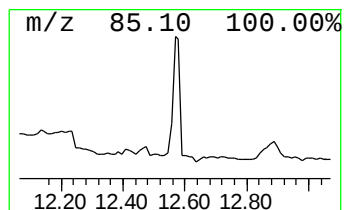
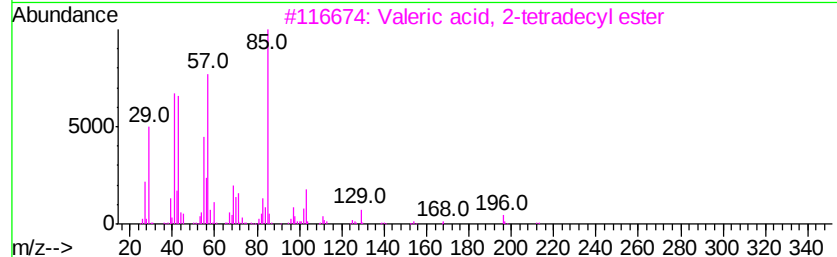
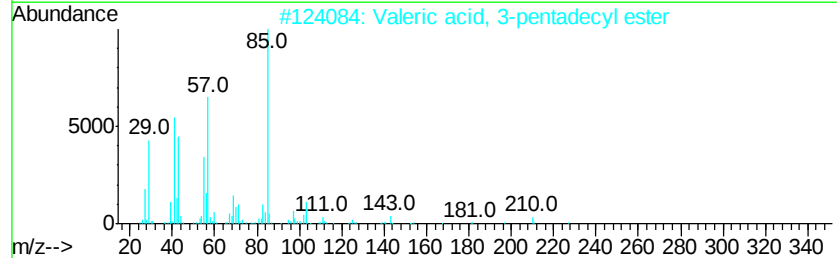
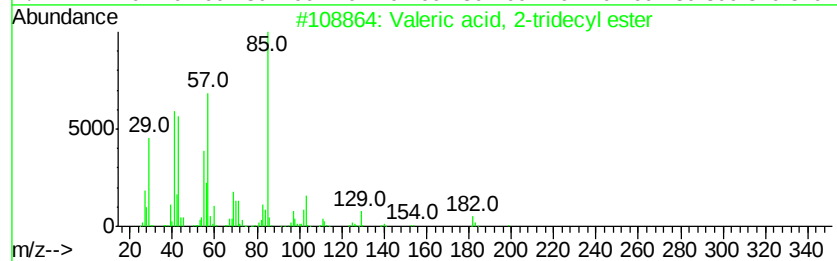
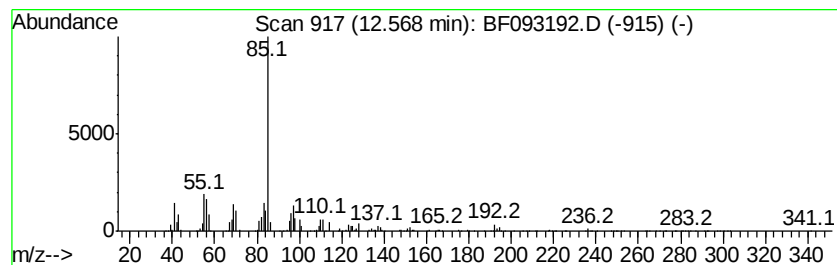
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Valeric acid, 2-tridecyl ester Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.57 | 43.25 ng | 2621700 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Valeric acid, 2-tridecyl ester       | 284 | C18H36O2 | 055193-13-0  | 59   |
| 2    |    | Valeric acid, 3-pentadecyl ester     | 312 | C20H40O2 | 1000281-99-3 | 59   |
| 3    |    | Valeric acid, 2-tetradecyl ester     | 298 | C19H38O2 | 055193-14-1  | 59   |
| 4    |    | 2(3H)-Furanone, 5-heptaldehydihydro- | 184 | C11H20O2 | 000104-67-6  | 50   |
| 5    |    | 2-Oxepanone, 7-hexyl-                | 198 | C12H22O2 | 016429-21-3  | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022417\  
Data File : BF093192.D  
Acq On : 25 Feb 2017 14:57  
Operator : SJ/MA  
Sample : I1972-22  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

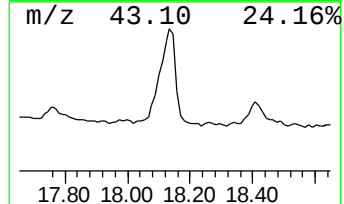
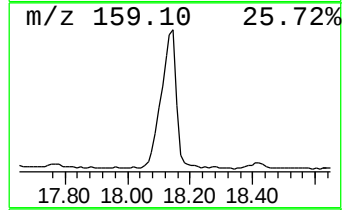
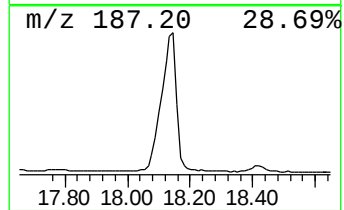
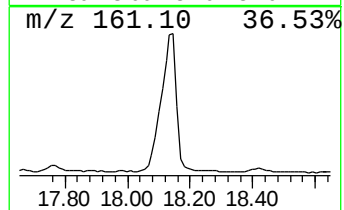
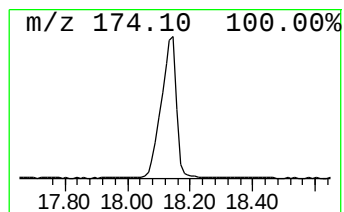
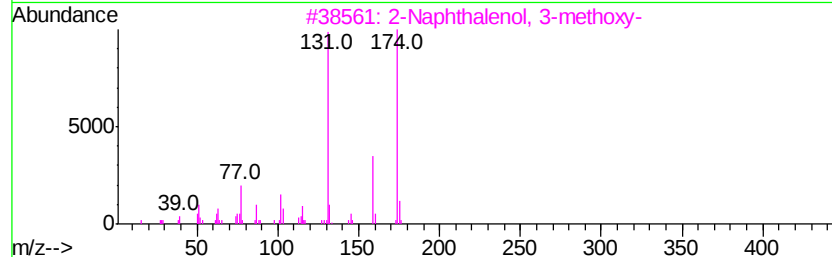
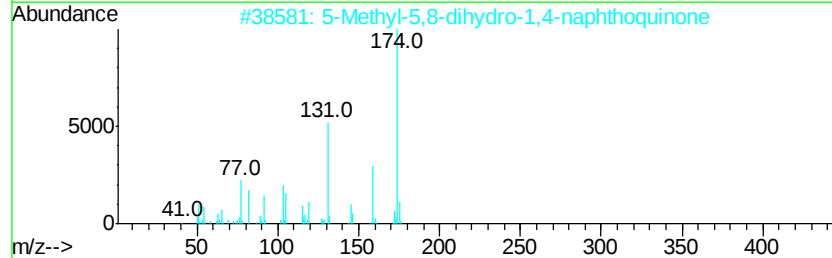
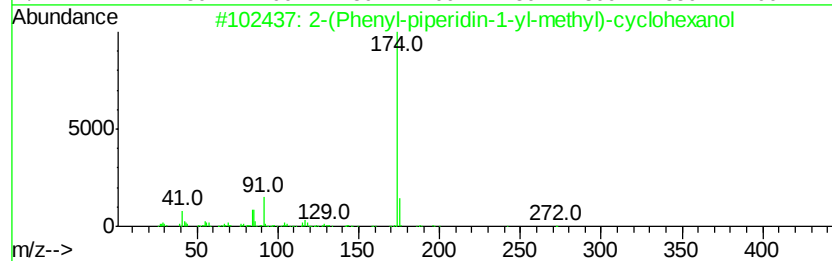
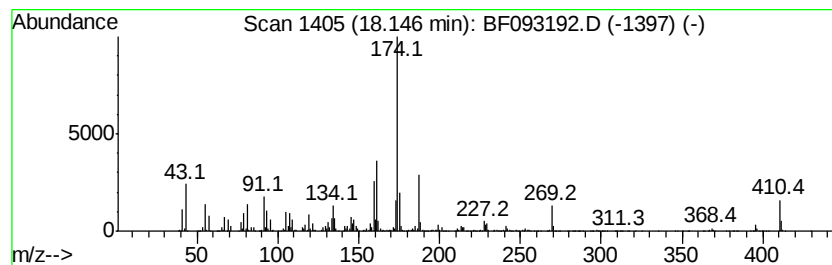
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown18.15 Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 18.15 | 67.26 ng | 6957330 | Perylene-d12     | 15.49 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-(Phenyl-piperidin-1-yl-methyl)... | 273 | C18H27NO | 101887-99-4 | 43   |
| 2    |    | 5-Methyl-5,8-dihydro-1,4-naphtho... | 174 | C11H10O2 | 086759-40-2 | 38   |
| 3    |    | 2-Naphthalenol, 3-methoxy-          | 174 | C11H10O2 | 018515-11-2 | 38   |
| 4    |    | 7-Methoxy-1-naphthol                | 174 | C11H10O2 | 067247-13-6 | 38   |
| 5    |    | 2,2,4-Trimethyl-1,2-dihydro-quin... | 189 | C12H15NO | 117330-56-0 | 38   |



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 Data File : BF093192.D  
 Acq On : 25 Feb 2017 14:57  
 Operator : SJ/MA  
 Sample : I1972-22  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z6-BASE

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response  | ---Internal Standard--- |       |         |      |
|----------------------|-------|---------|-------|-----------|-------------------------|-------|---------|------|
|                      |       |         |       |           | #                       | RT    | Resp    | Conc |
| Hexanal              | 4.37  | 47.4    | ng    | 3332190   | 1                       | 6.83  | 1406990 | 20.0 |
| unknown6.61          | 6.61  | 63.5    | ng    | 4463760   | 1                       | 6.83  | 1406990 | 20.0 |
| unknown6.67          | 6.67  | 38.4    | ng    | 2699540   | 1                       | 6.83  | 1406990 | 20.0 |
| Heptanoic acid, 2... | 8.56  | 60.3    | ng    | 8617660   | 2                       | 8.13  | 2859580 | 20.0 |
| 6-Tridecanone        | 9.14  | 61.8    | ng    | 5353180   | 3                       | 9.88  | 1733770 | 20.0 |
| unknown9.76          | 9.76  | 43.2    | ng    | 3742680   | 3                       | 9.88  | 1733770 | 20.0 |
| 6-Tridecene, (Z)-    | 9.78  | 29.5    | ng    | 2554460   | 3                       | 9.88  | 1733770 | 20.0 |
| Pentadecane          | 9.81  | 28.4    | ng    | 2462850   | 3                       | 9.88  | 1733770 | 20.0 |
| Dodecanoic acid      | 10.14 | 29.4    | ng    | 2547920   | 3                       | 9.88  | 1733770 | 20.0 |
| 5-Decanone, 2-met... | 10.19 | 38.1    | ng    | 3305950   | 3                       | 9.88  | 1733770 | 20.0 |
| 2-Dodecanone         | 10.80 | 33.4    | ng    | 2025070   | 4                       | 11.37 | 1212460 | 20.0 |
| 2H-Pyran-2-one, t... | 10.88 | 29.4    | ng    | 1785250   | 4                       | 11.37 | 1212460 | 20.0 |
| Tetradecanoic acid   | 11.14 | 283.2   | ng    | 17168800  | 4                       | 11.37 | 1212460 | 20.0 |
| 4-Methyl-5-nonanone  | 11.23 | 33.4    | ng    | 2025180   | 4                       | 11.37 | 1212460 | 20.0 |
| 4-Hexen-3-ol, 2,5... | 11.48 | 33.6    | ng    | 2036620   | 4                       | 11.37 | 1212460 | 20.0 |
| n-Hexadecanoic acid  | 12.23 | 1891.7  | ng    | 114678000 | 4                       | 11.37 | 1212460 | 20.0 |
| Valeric acid, 2-t... | 12.57 | 43.3    | ng    | 2621700   | 4                       | 11.37 | 1212460 | 20.0 |
| unknown18.15         | 18.15 | 67.3    | ng    | 6957330   | 6                       | 15.49 | 2068740 | 20.0 |