LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

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-BF031115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.230 | 28 | 30 | 33 | rVV | 274206 | 266265 | 18.04% | 1.210% |
| 2 | 1.355 | 36 | 41 | 44 | rVB | 59963 | 116000 | 7.86% | 0.527% |
| 3 | 1.515 | 52 | 55 | 58 | rVB | 60830 | 80022 | 5.42% | 0.364% |
| 4 | 1.733 | 72 | 74 | 84 | rVB | 29687 | 63780 | 4.32% | 0.290% |
| 5 | 4.807 | 342 | 343 | 351 | rVB | 70567 | 105393 | 7.14% | 0.479% |
| 6 | 5.367 | 389 | 392 | 395 | rBV | 782745 | 891618 | 60.40% | 4.051% |
| 7 | 6.659 | 503 | 505 | 508 | rBV | 779005 | 884189 | 59.90% | 4.018% |
| 8 | 6.785 | 514 | 516 | 519 | rBV | 795141 | 961129 | 65.11% | 4.367% |
| 9 | 6.887 | 524 | 525 | 528 | rVB | 83669 | 96831 | 6.56% | 0.440% |
| 10 | 7.070 | 539 | 541 | 543 | rVV | 225611 | 214922 | 14.56% | 0.977% |
| 11 | 7.253 | 555 | 557 | 560 | rBV | 628301 | 815251 | 55.23% | 3.704% |
| 12 | 7.425 | 571 | 572 | 575 | rVB2 | 28796 | 43939 | 2.98% | 0.200% |
| 13 | 7.482 | 575 | 577 | 578 | rBV | 53258 | 54259 | 3.68% | 0.247% |
| 14 | 7.573 | 582 | 585 | 588 | rVB2 | 35202 | 57438 | 3.89% | 0.261% |
| 15 | 7.767 | 600 | 602 | 605 | rVV | 626407 | 594395 | 40.27% | 2.701% |
| 16 | 7.836 | 606 | 608 | 611 | rVV | 174692 | 223777 | 15.16% | 1.017% |
| 17 | 7.882 | 611 | 612 | 614 | rVB2 | 29924 | 40199 | 2.72% | 0.183% |
| 18 | 8.065 | 626 | 628 | 631 | rVB | 81649 | 78444 | 5.31% | 0.356% |
| 19 | 8.202 | 636 | 640 | 642 | rBV2 | 48602 | 95826 | 6.49% | 0.435% |
| 20 | 8.248 | 642 | 644 | 646 | rVB2 | 42394 | 50211 | 3.40% | 0.228% |
| 21 | 8.305 | 646 | 649 | 650 | rBV | 39089 | 60421 | 4.09% | 0.275% |
| 22 | 8.339 | 650 | 652 | 654 | rVV2 | 90112 | 108257 | 7.33% | 0.492% |
| 23 | 8.385 | 654 | 656 | 659 | rVB2 | 107292 | 112818 | 7.64% | 0.513% |
| 24 | 8.442 | 659 | 661 | 664 | rBV2 | 60847 | 132318 | 8.96% | 0.601% |
| 25 | 8.648 | 677 | 679 | 680 | rBV | 369082 | 331044 | 22.43% | 1.504% |
| 26 | 8.773 | 688 | 690 | 693 | rBV2 | 90535 | 113802 | 7.71% | 0.517% |
| 27 | 8.899 | 699 | 701 | 705 | rBV3 | 66480 | 97528 | 6.61% | 0.443% |
| 28 | 8.990 | 707 | 709 | 711 | rVV3 | 30189 | 57643 | 3.91% | 0.262% |
| 29 | 9.036 | 711 | 713 | 714 | rVV | 63219 | 71838 | 4.87% | 0.326% |
| 30 | 9.082 | 714 | 717 | 718 | rVV3 | 45717 | 76133 | 5.16% | 0.346% |
| 31 | 9.116 | 718 | 720 | 723 | rVV2 | 77305 | 117366 | 7.95% | 0.533% |
| 32 | 9.162 | 723 | 724 | 727 | rVV2 | 78448 | 72923 | 4.94% | 0.331% |
| 33 | 9.219 | 727 | 729 | 732 | rVV3 | 152106 | 212643 | 14.41% | 0.966% |
| 34 | 9.276 | 732 | 734 | 736 | rVV2 | 68870 | 92784 | 6.29% | 0.422% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

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-BF031115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.333 | 736 | 739 | 742 | rVB4 | 29968 | 60104 | 4.07% | 0.273% |
| 36 | 9.425 | 745 | 747 | 749 | rVV | 436767 | 455210 | 30.84% | 2.068% |
| 37 | 9.470 | 749 | 751 | 753 | rVV2 | 69192 | 91457 | 6.20% | 0.416% |
| 38 | 9.539 | 753 | 757 | 760 | rVB3 | 115566 | 218882 | 14.83% | 0.995% |
| 39 | 9.653 | 763 | 767 | 768 | rVV2 | 91127 | 113948 | 7.72% | 0.518% |
| 40 | 9.676 | 768 | 769 | 771 | rVV | 100185 | 109020 | 7.39% | 0.495% |
| 41 | 9.802 | 774 | 780 | 781 | rBV3 | 76156 | 179123 | 12.13% | 0.814% |
| 42 | 9.836 | 781 | 783 | 785 | rVV2 | 65980 | 96612 | 6.55% | 0.439% |
| 43 | 9.882 | 785 | 787 | 789 | rVV | 81935 | 87185 | 5.91% | 0.396% |
| 44 | 9.928 | 789 | 791 | 792 | rVV2 | 71488 | 81408 | 5.52% | 0.370% |
| 45 | 9.962 | 792 | 794 | 795 | rVV2 | 134454 | 157905 | 10.70% | 0.717% |
| 46 | 9.996 | 795 | 797 | 799 | rVV | 1426518 | 1252114 | 84.83% | 5.689% |
| 47 | 10.133 | 805 | 809 | 811 | rVV | 463937 | 572092 | 38.76% | 2.599% |
| 48 | 10.179 | 811 | 813 | 814 | rVV | 70282 | 85906 | 5.82% | 0.390% |
| 49 | 10.225 | 814 | 817 | 820 | rVV3 | 54247 | 109633 | 7.43% | 0.498% |
| 50 | 10.316 | 823 | 825 | 828 | rBV2 | 89741 | 165436 | 11.21% | 0.752% |
| 51 | 10.396 | 830 | 832 | 834 | rVV2 | 90106 | 150055 | 10.17% | 0.682% |
| 52 | 10.431 | 834 | 835 | 840 | rVV4 | 97739 | 220384 | 14.93% | 1.001% |
| 53 | 10.522 | 840 | 843 | 844 | rVV3 | 165356 | 291100 | 19.72% | 1.323% |
| 54 | 10.602 | 848 | 850 | 851 | rBV | 49538 | 57429 | 3.89% | 0.261% |
| 55 | 10.648 | 852 | 854 | 856 | rVB3 | 36935 | 50484 | 3.42% | 0.229% |
| 56 | 10.785 | 864 | 866 | 867 | rBV | 536566 | 503904 | 34.14% | 2.290% |
| 57 | 10.819 | 867 | 869 | 873 | rVV | 359897 | 466264 | 31.59% | 2.119% |
| 58 | 10.956 | 879 | 881 | 884 | rVB | 54592 | 99853 | 6.76% | 0.454% |
| 59 | 11.082 | 887 | 892 | 893 | rBV2 | 100286 | 202538 | 13.72% | 0.920% |
| 60 | 11.105 | 893 | 894 | 897 | rVV2 | 42881 | 81216 | 5.50% | 0.369% |
| 61 | 11.185 | 899 | 901 | 903 | rVB2 | 109153 | 109159 | 7.40% | 0.496% |
| 62 | 11.231 | 903 | 905 | 909 | rVB5 | 81474 | 160088 | 10.85% | 0.727% |
| 63 | 11.334 | 909 | 914 | 917 | rBV4 | 49650 | 149956 | 10.16% | 0.681% |
| 64 | 11.414 | 919 | 921 | 922 | rBV | 400936 | 499032 | 33.81% | 2.267% |
| 65 | 11.459 | 922 | 925 | 927 | rVB4 | 30274 | 42821 | 2.90% | 0.195% |
| 66 | 11.494 | 927 | 928 | 930 | rVB2 | 51724 | 45164 | 3.06% | 0.205% |
| 67 | 11.539 | 930 | 932 | 934 | rBV2 | 69343 | 107276 | 7.27% | 0.487% |
| 68 | 11.676 | 940 | 944 | 946 | rBV | 157853 | 272193 | 18.44% | 1.237% |
| 69 | 11.745 | 949 | 950 | 952 | rVB | 43084 | 36895 | 2.50% | 0.168% |
| 70 | 11.791 | 952 | 954 | 963 | rBV2 | 590792 | 876695 | 59.39% | 3.983% |
| 71 | 11.916 | 963 | 965 | 967 | rBV2 | 24663 | 39290 | 2.66% | 0.179% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

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-BF031115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.996 | 970 | 972 | 976 | rBV | 574651 | 755690 | 51.20% | 3.434% |
| 73 | 12.236 | 989 | 993 | 995 | rVV2 | 53095 | 96410 | 6.53% | 0.438% |
| 74 | 12.271 | 995 | 996 | 998 | rVB | 48037 | 65561 | 4.44% | 0.298% |
| 75 | 12.317 | 998 | 1000 | 1001 | rBV2 | 51484 | 48871 | 3.31% | 0.222% |
| 76 | 12.351 | 1001 | 1003 | 1006 | rBV4 | 47204 | 55561 | 3.76% | 0.252% |
| 77 | 12.397 | 1006 | 1007 | 1013 | rVB3 | 57225 | 66336 | 4.49% | 0.301% |
| 78 | 12.557 | 1019 | 1021 | 1022 | rBV | 484033 | 446281 | 30.23% | 2.028% |
| 79 | 12.591 | 1022 | 1024 | 1027 | rVB | 179343 | 202018 | 13.69% | 0.918% |
| 80 | 12.648 | 1027 | 1029 | 1033 | rBV | 372384 | 411746 | 27.89% | 1.871% |
| 81 | 12.728 | 1033 | 1036 | 1038 | rVB2 | 38609 | 45501 | 3.08% | 0.207% |
| 82 | 12.774 | 1038 | 1040 | 1041 | rBV2 | 40351 | 52441 | 3.55% | 0.238% |
| 83 | 12.865 | 1046 | 1048 | 1049 | rVV2 | 28853 | 45788 | 3.10% | 0.208% |
| 84 | 12.934 | 1052 | 1054 | 1056 | rVV2 | 41722 | 65072 | 4.41% | 0.296% |
| 85 | 13.025 | 1060 | 1062 | 1064 | rVV2 | 45372 | 56652 | 3.84% | 0.257% |
| 86 | 13.094 | 1066 | 1068 | 1070 | rVV | 251133 | 357320 | 24.21% | 1.624% |
| 87 | 13.277 | 1081 | 1084 | 1086 | rBV2 | 47790 | 99718 | 6.76% | 0.453% |
| 88 | 13.311 | 1086 | 1087 | 1091 | rVV | 65304 | 78151 | 5.29% | 0.355% |
| 89 | 13.414 | 1094 | 1096 | 1098 | rBV | 43373 | 67839 | 4.60% | 0.308% |
| 90 | 13.597 | 1110 | 1112 | 1114 | rVV | 314908 | 304746 | 20.65% | 1.385% |
| 91 | 13.665 | 1117 | 1118 | 1124 | rVB4 | 26698 | 50821 | 3.44% | 0.231% |
| 92 | 13.780 | 1126 | 1128 | 1132 | rBV5 | 18867 | 54201 | 3.67% | 0.246% |
| 93 | 13.962 | 1141 | 1144 | 1146 | rVV2 | 40804 | 76402 | 5.18% | 0.347% |
| 94 | 14.077 | 1152 | 1154 | 1156 | rBV | 180527 | 204260 | 13.84% | 0.928% |
| 95 | 14.545 | 1192 | 1195 | 1197 | rVB | 128765 | 130403 | 8.83% | 0.593% |
| 96 | 14.648 | 1201 | 1204 | 1206 | rBV | 1311039 | 1476099 | 100.00% | 6.707% |
| 97 | 14.991 | 1229 | 1234 | 1236 | rBV | 65473 | 70556 | 4.78% | 0.321% |
| 98 | 15.825 | 1304 | 1307 | 1313 | rBV | 57227 | 107826 | 7.30% | 0.490% |
| 99 | 15.928 | 1313 | 1316 | 1318 | rBV | 311169 | 419448 | 28.42% | 1.906% |
| 100 | 17.631 | 1463 | 1465 | 1468 | rBV | 268614 | 407224 | 27.59% | 1.850% |

Sum of corrected areas: 22008179

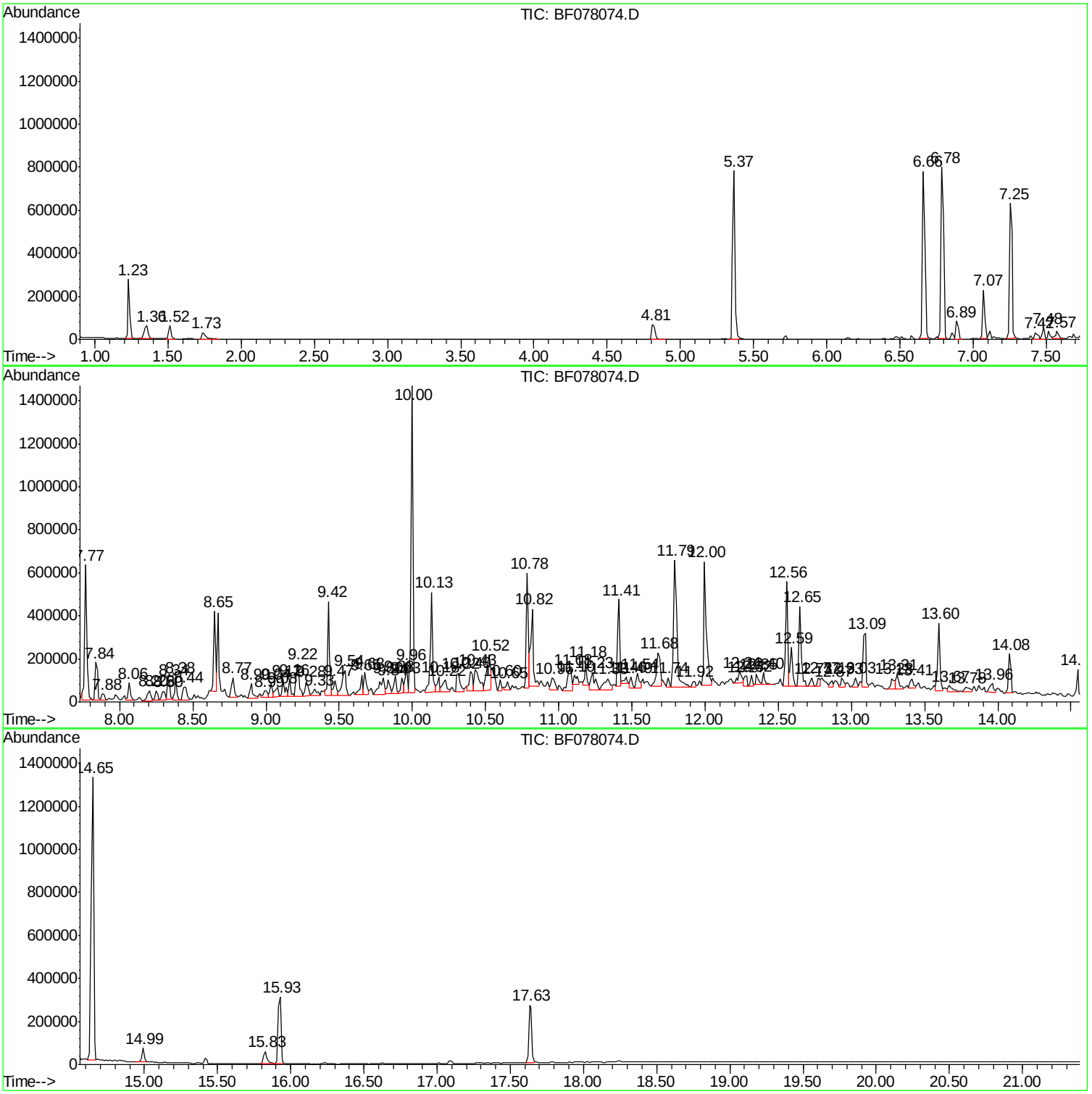
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

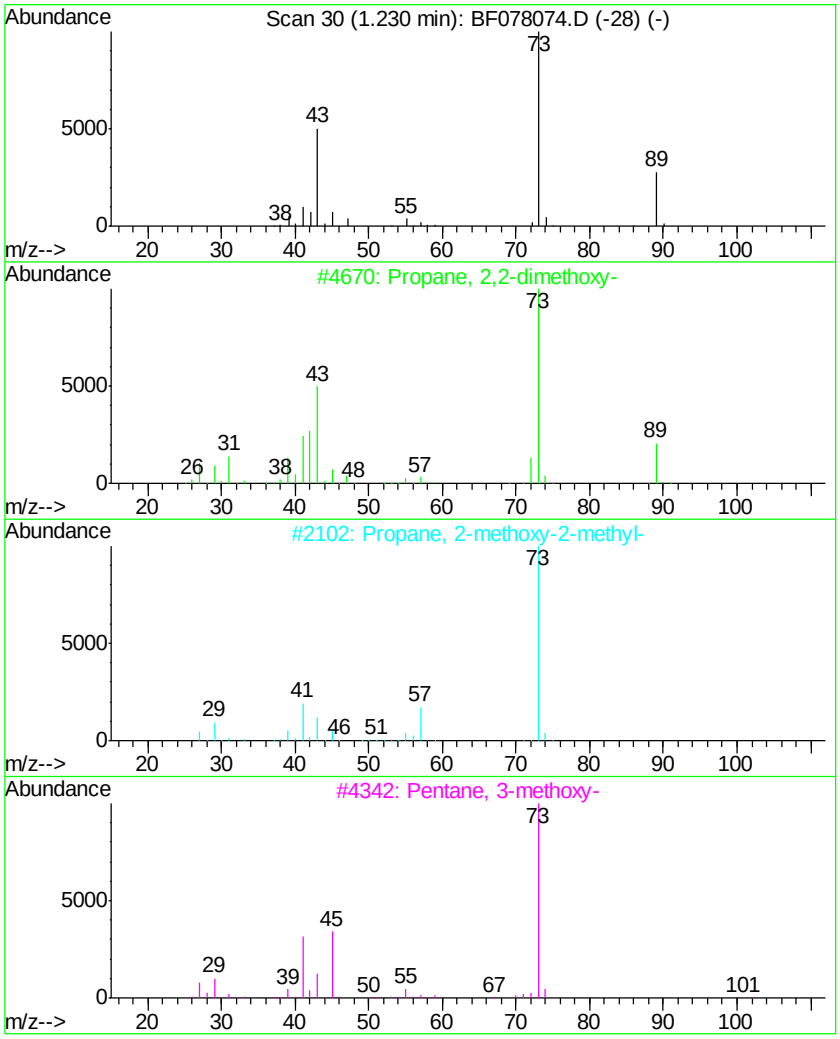
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

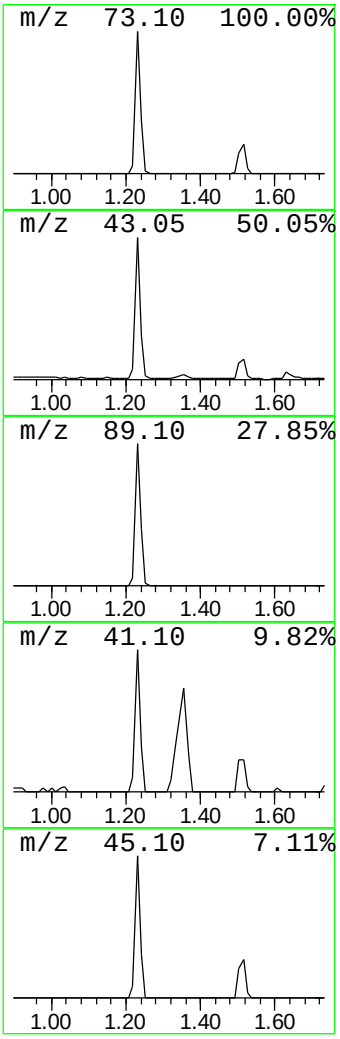
**********

Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.23 | 24.78 ng | 266265 | 1,4-Dichlorobenzene-d4 | 7.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 72 |
| 2 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 9 |
| 4 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9 |
| 5 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 5 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

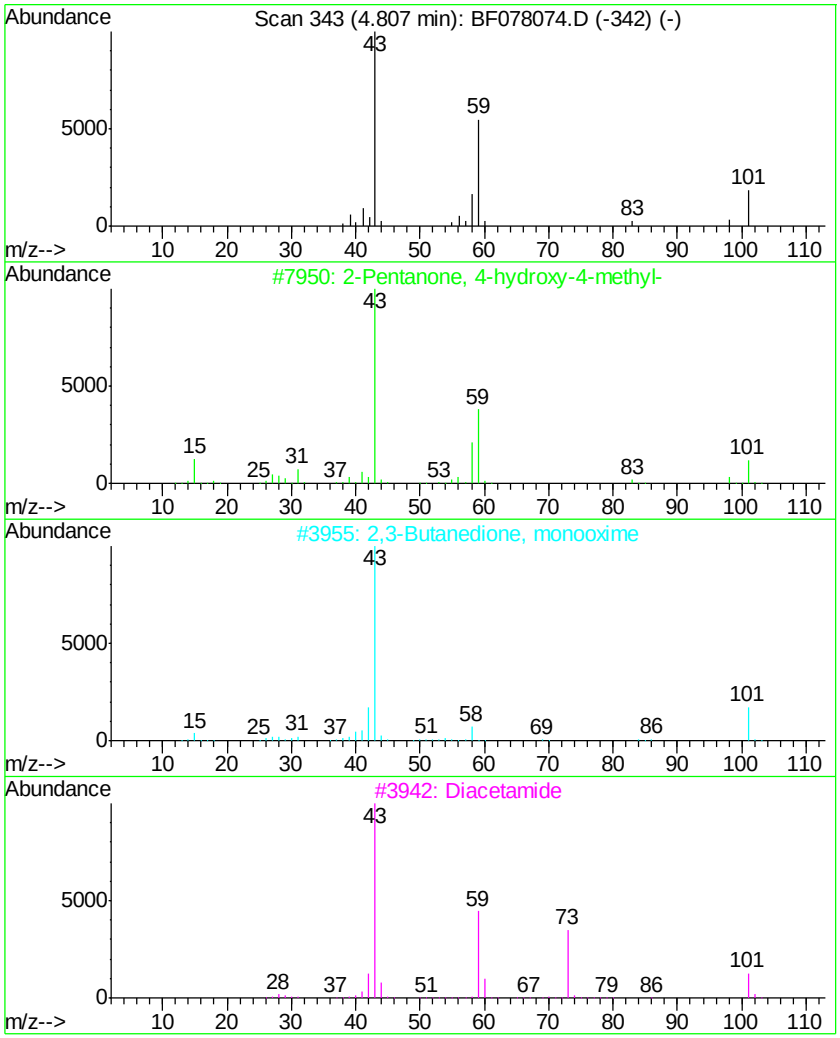
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

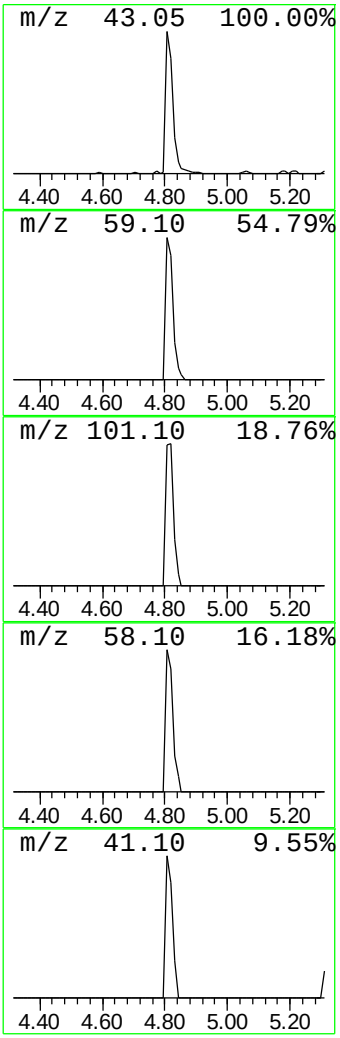
**********

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.81 | 9.81 ng | 105393 | 1,4-Dichlorobenzene-d4 | 7.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 3 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

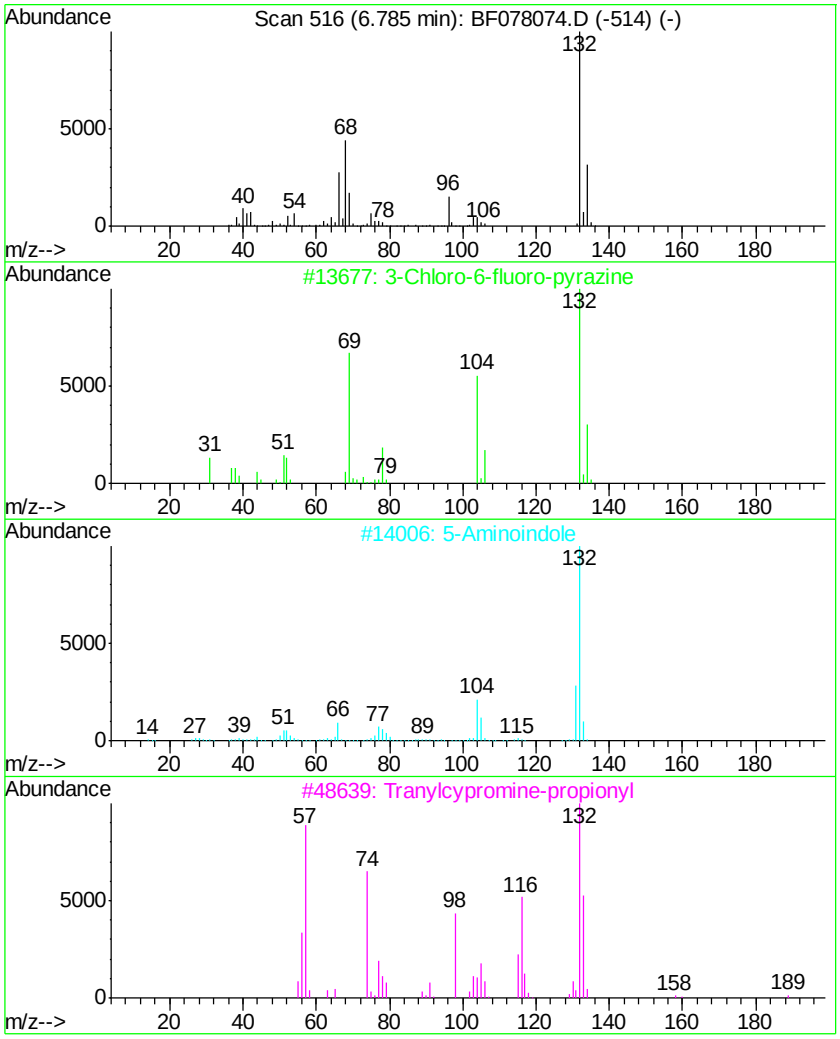
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

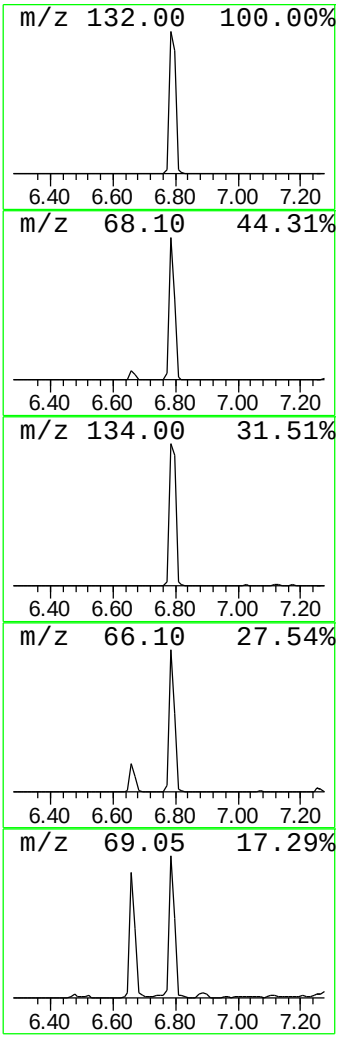
**********

Peak Number 4 unknown6.78 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.78 | 89.44 ng | 961129 | 1,4-Dichlorobenzene-d4 | 7.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

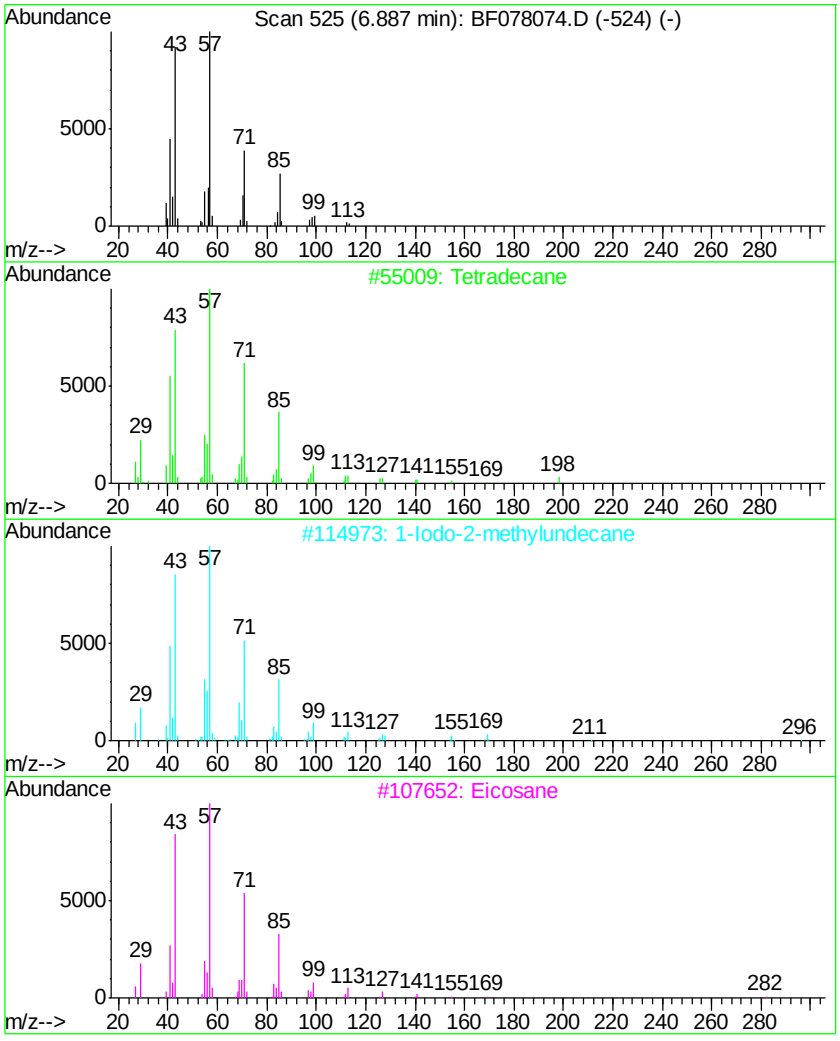
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

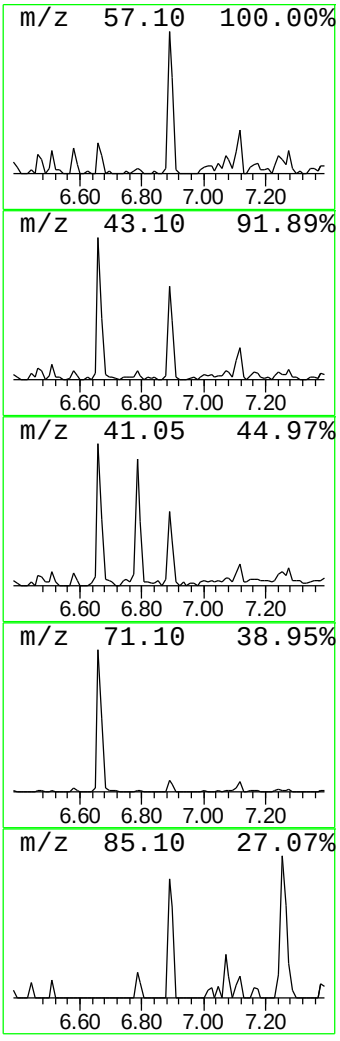
**********

Peak Number 5 Tetradecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.89 | 9.01 ng | 96831 | 1,4-Dichlorobenzene-d4 | 7.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 2 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 78 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 5 | Octane | 114 | C8H18 | 000111-65-9 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

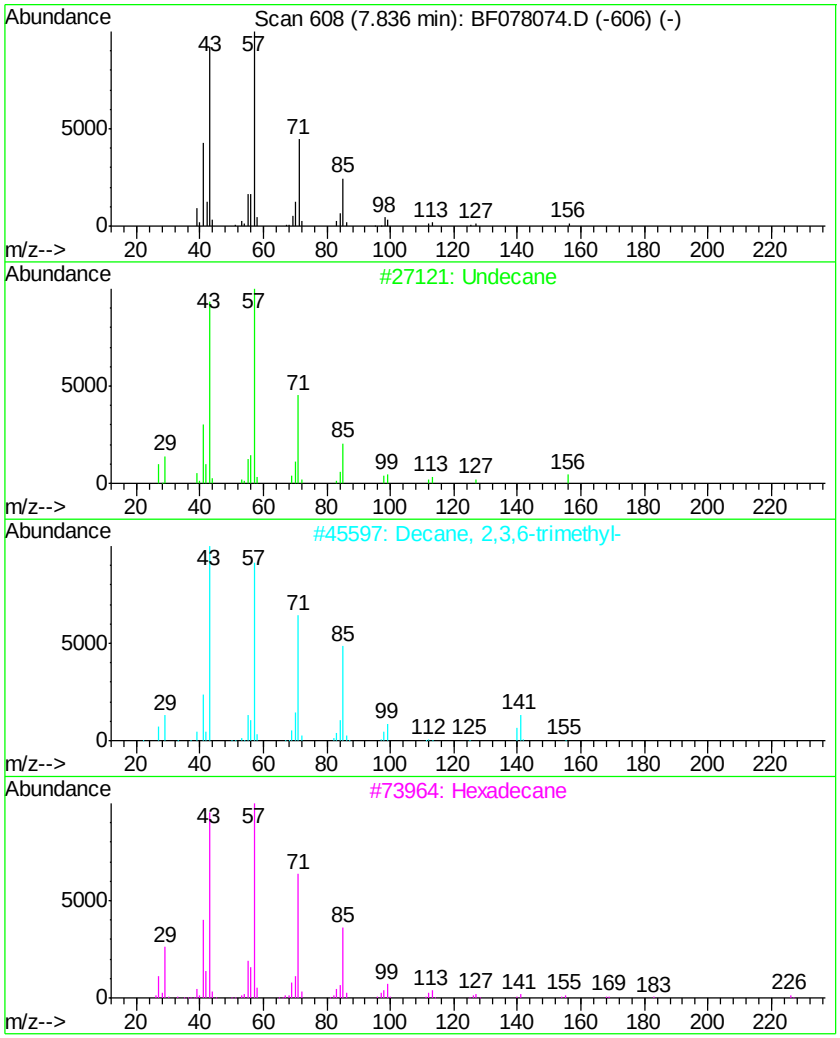
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

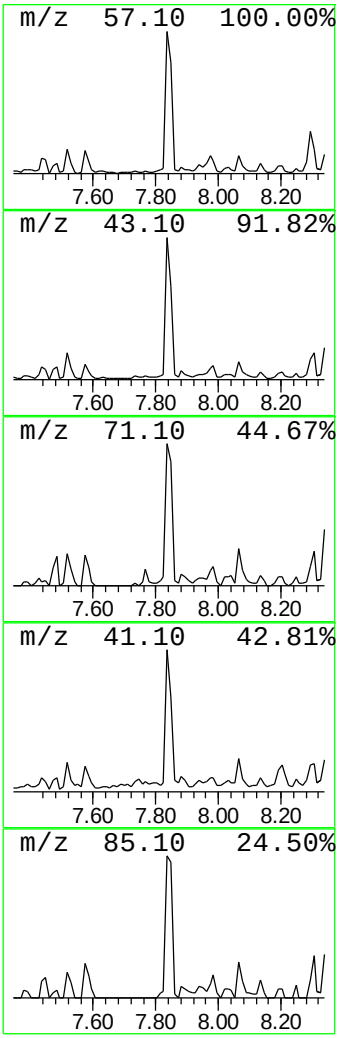
**********

Peak Number 7 Undecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.84 | 20.82 ng | 223777 | 1,4-Dichlorobenzene-d4 | 7.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 91 |
| 2 | Decane, 2,3,6-trimethyl- | 184 | C13H28 | 062238-12-4 | 83 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 4 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 83 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

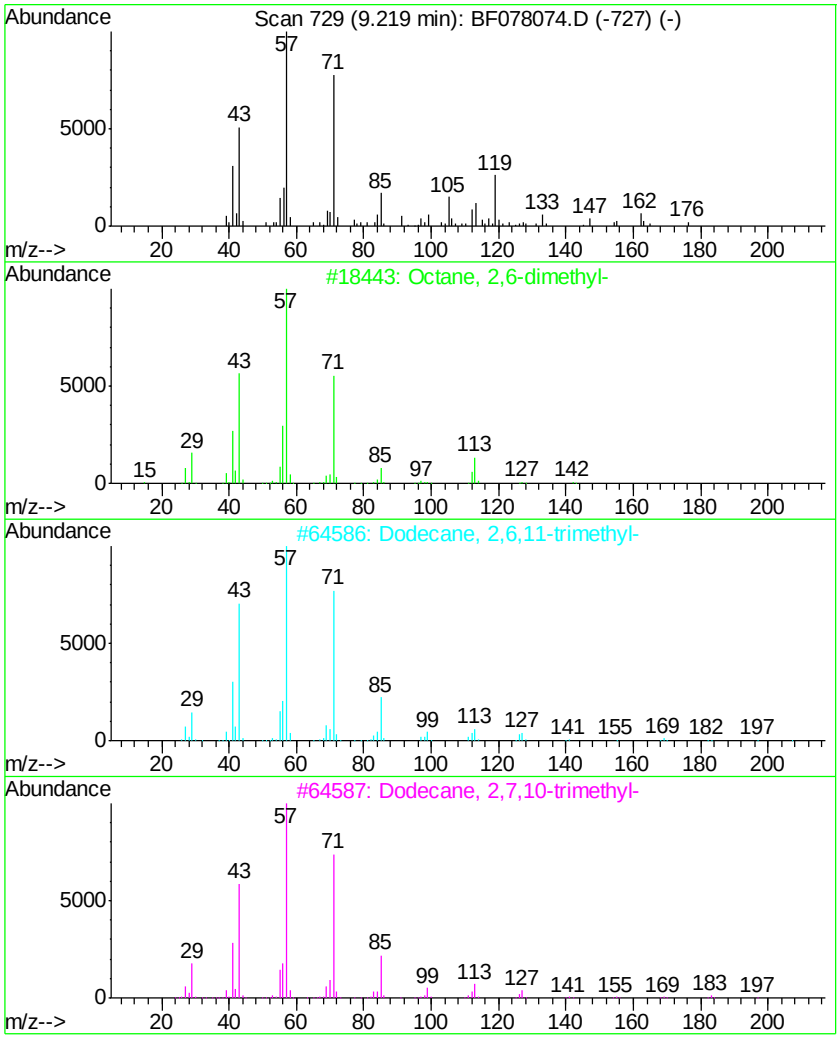
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

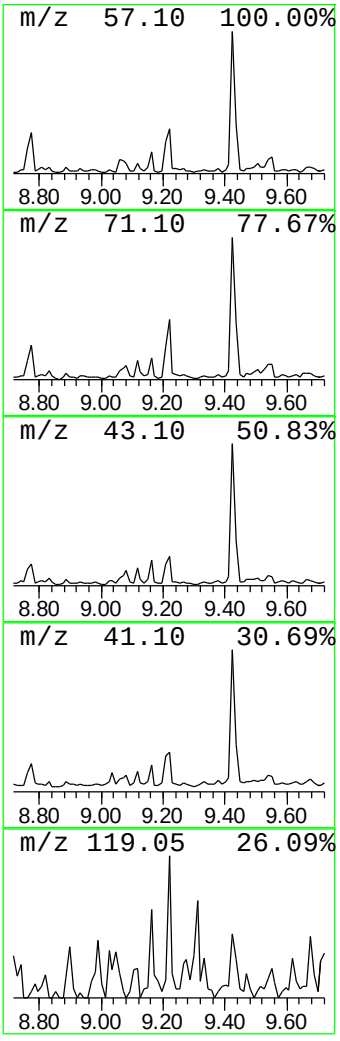
**********

Peak Number 8 Octane, 2,6-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.22 | 12.85 ng | 212643 | Naphthalene-d8 | 8.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 59 |
| 2 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 59 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 59 |
| 4 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 53 |
| 5 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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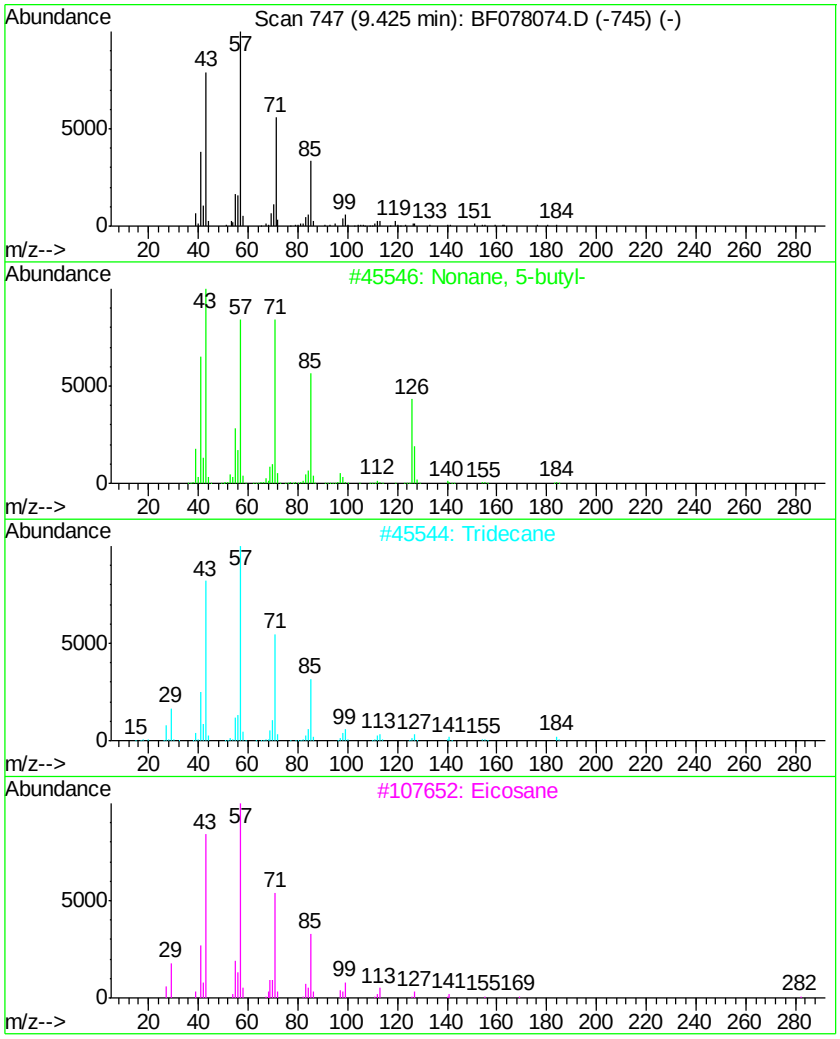
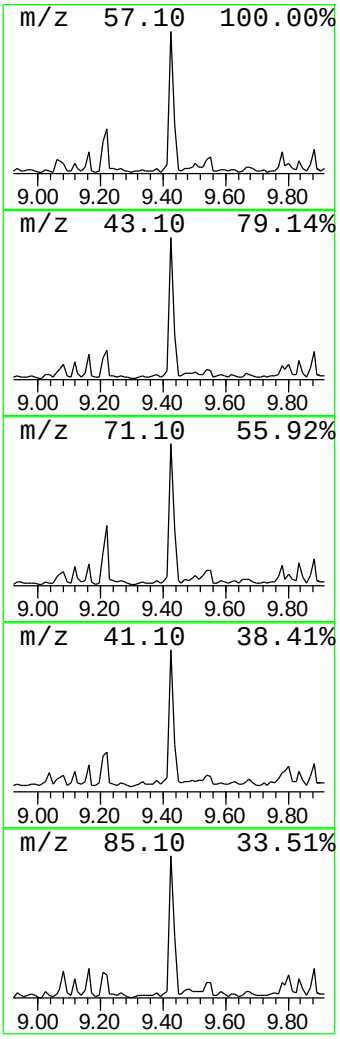
Peak Number 9 Nonane, 5-butyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.42 | 27.50 ng | 455210 | Naphthalene-d8 | 8.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 90 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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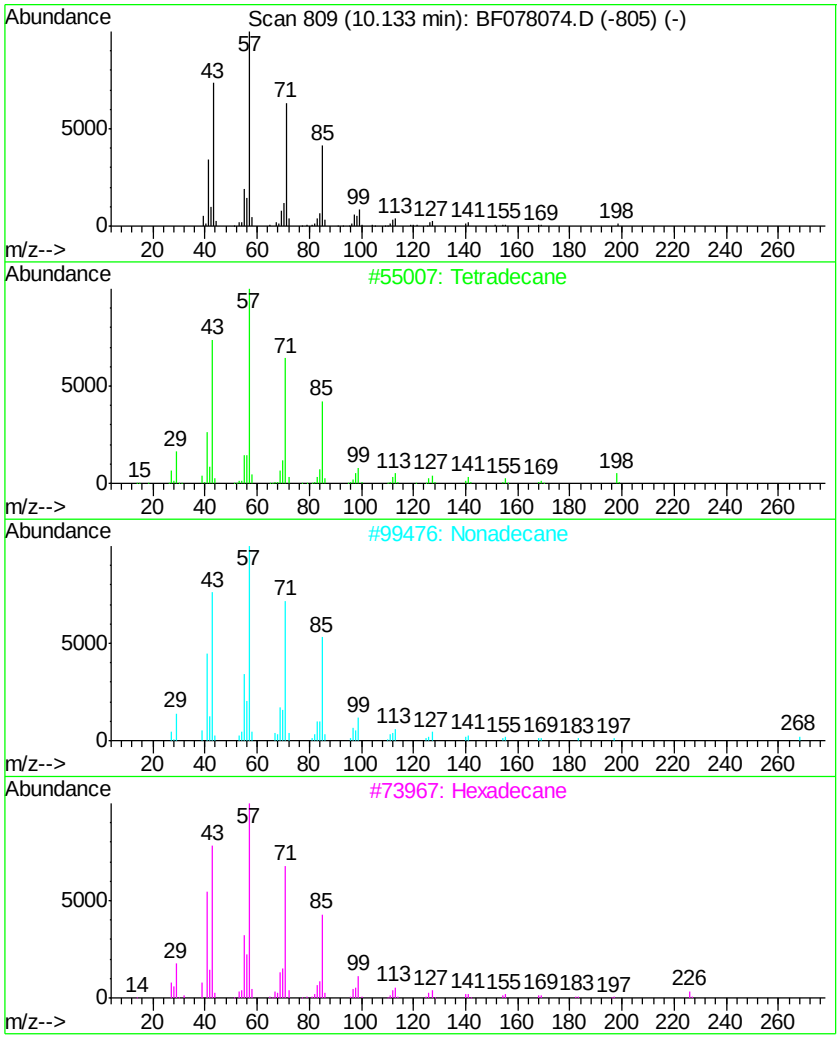
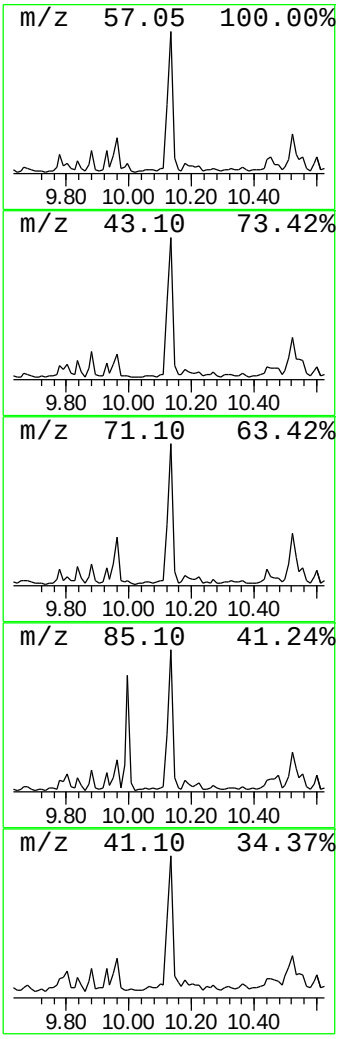
Peak Number 10 Nonadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.13 | 24.54 ng | 572092 | Acenaphthene-d10 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 95 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 90 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 4 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 72 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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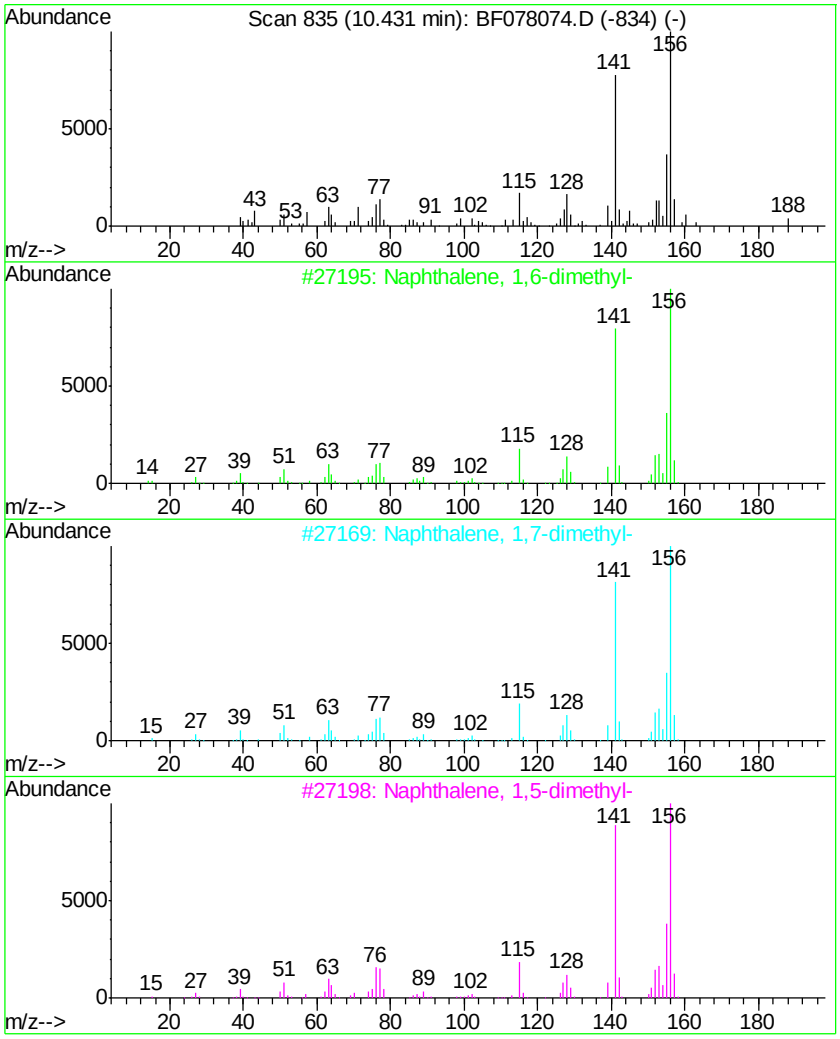
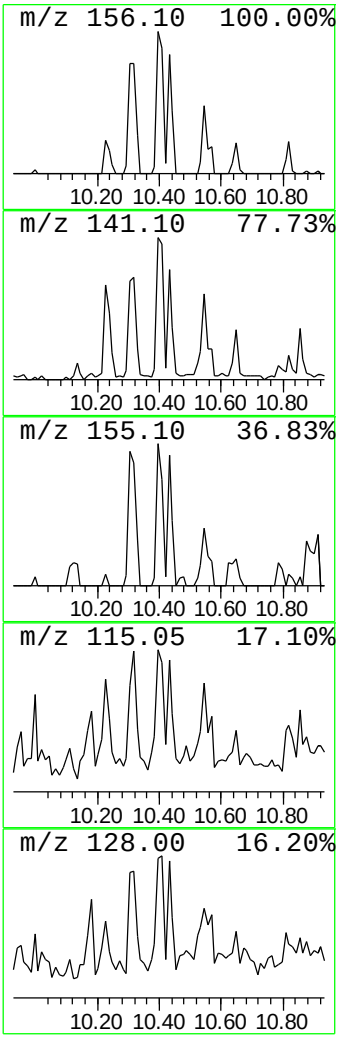
Peak Number 11 Naphthalene, 1,6-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 9.45 ng | 220384 | Acenaphthene-d10 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 98 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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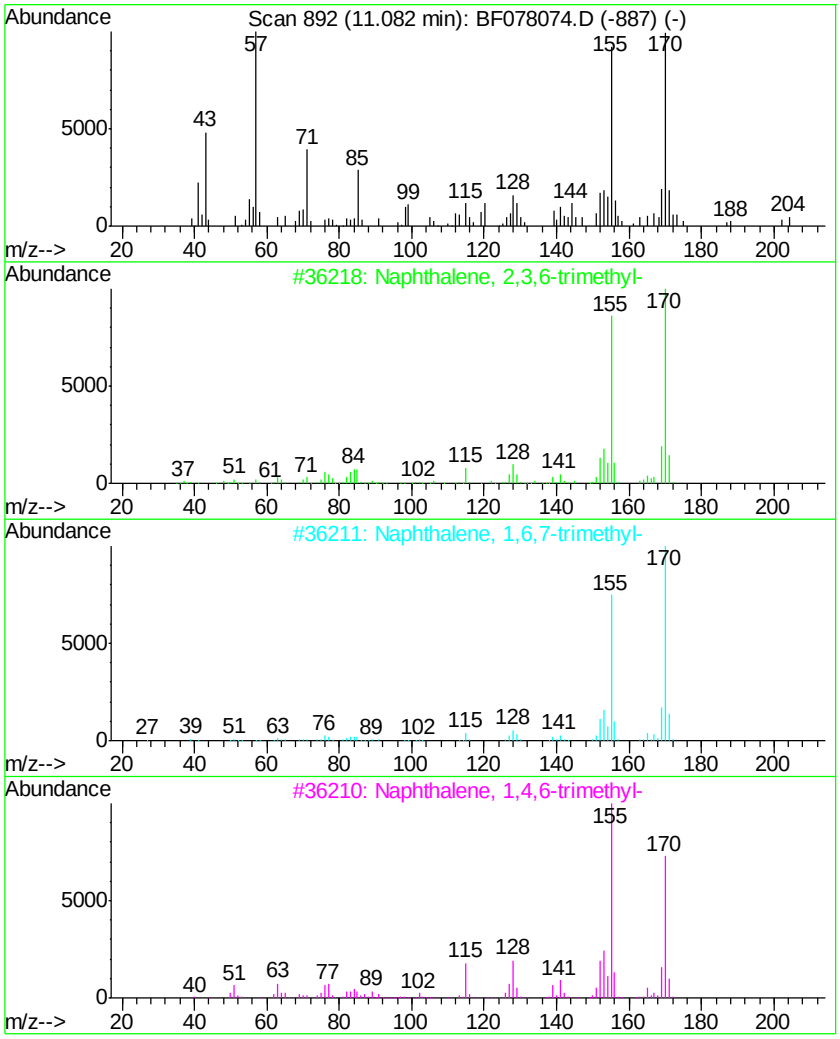
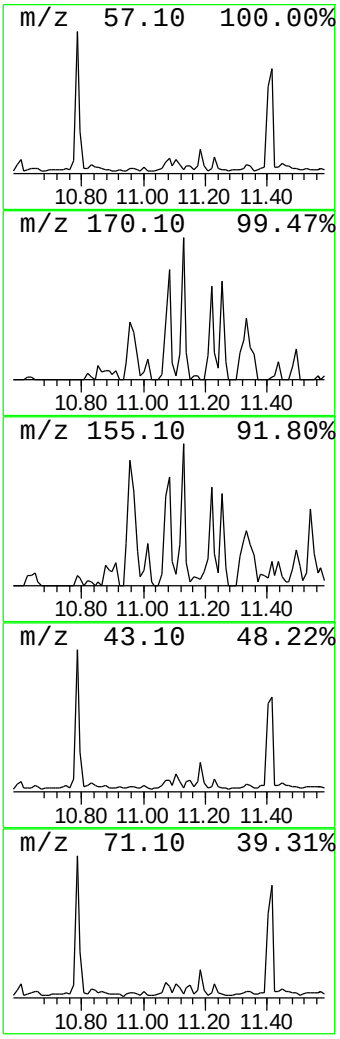
Peak Number 12 Naphthalene, 2,3,6-trimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.08 | 8.69 ng | 202538 | Acenaphthene-d10 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 95 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 94 |
| 4 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 89 |
| 5 | Azulene, 4,6,8-trimethyl- | 170 | C13H14 | 000941-81-1 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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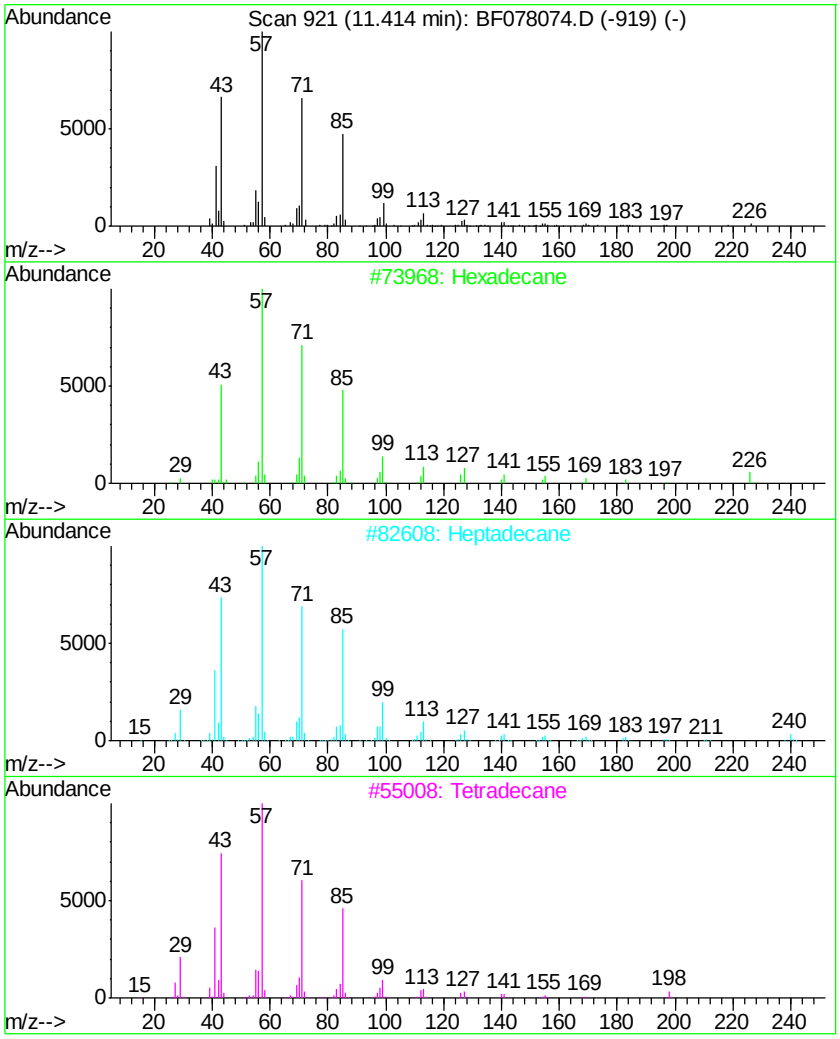
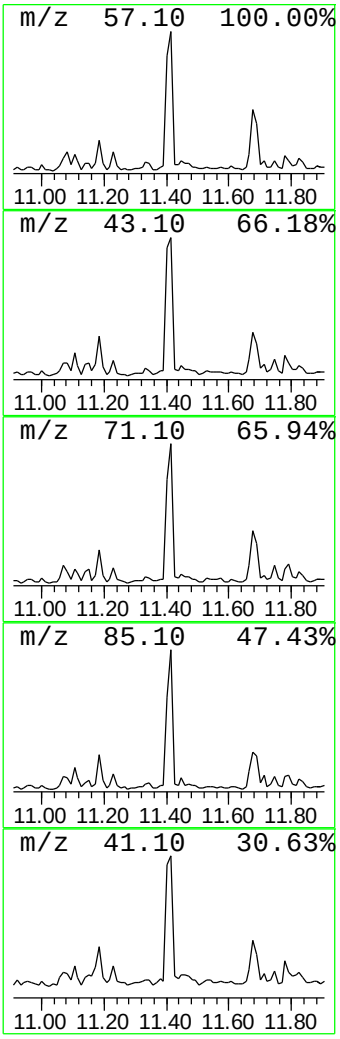
Peak Number 13 Hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.41 | 21.41 ng | 499032 | Acenaphthene-d10 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 87 |
| 4 | Pentadecane, 7-methyl- | 226 | C16H34 | 006165-40-8 | 87 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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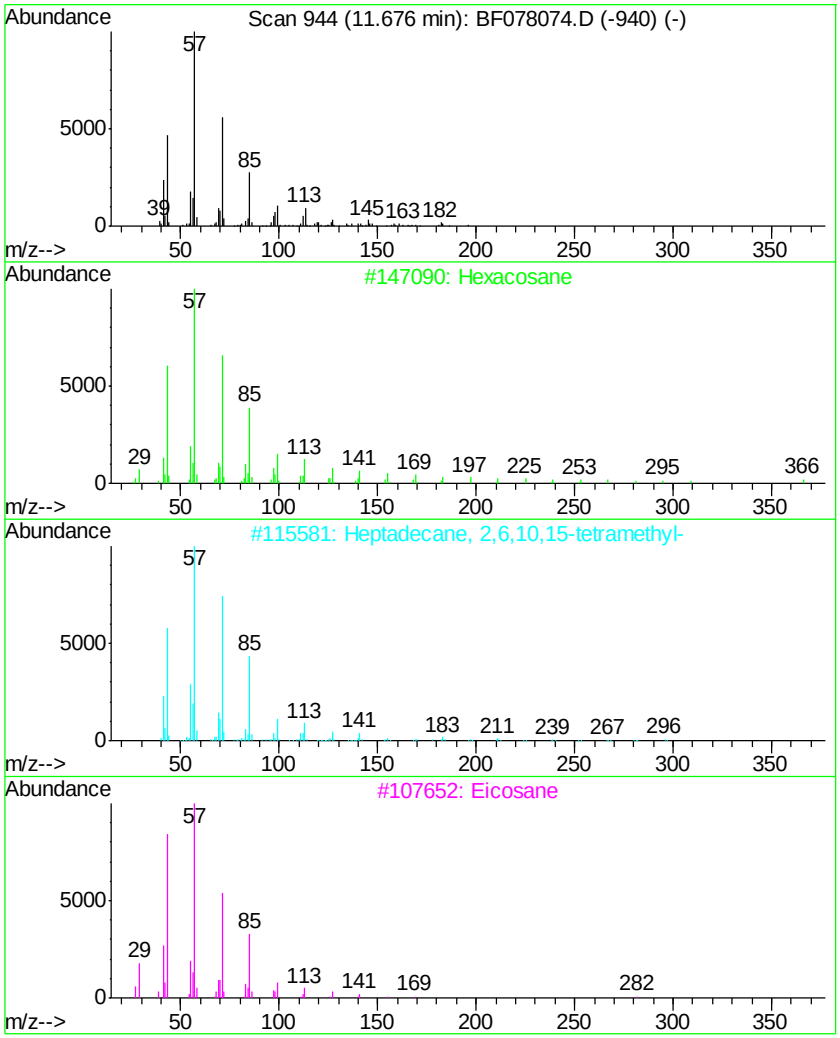
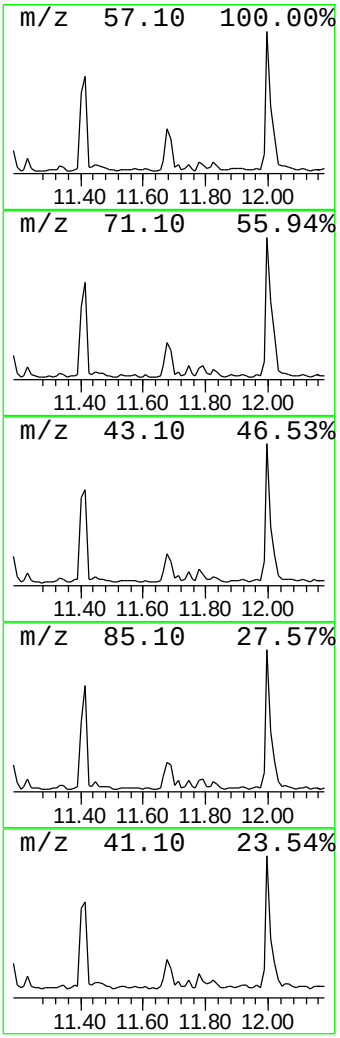
Peak Number 14 Hexacosane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.68 | 11.68 ng | 272193 | Acenaphthene-d10 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 83 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 80 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 78 |
| 4 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 72 |
| 5 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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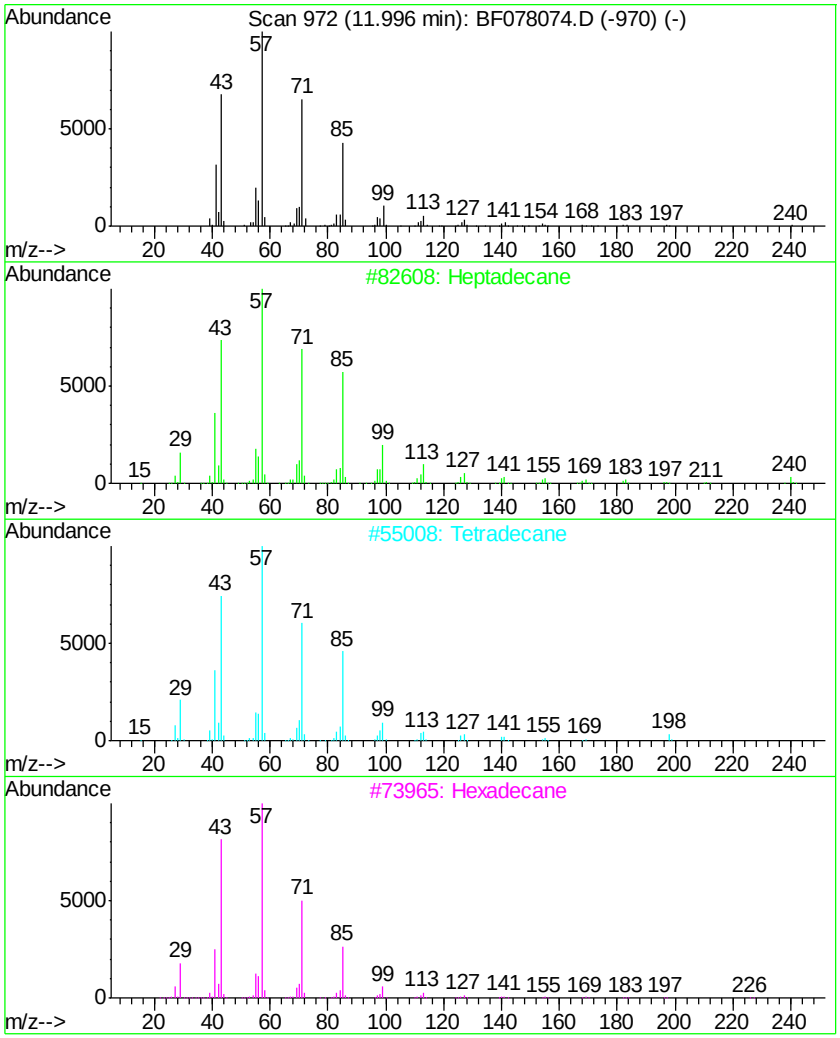
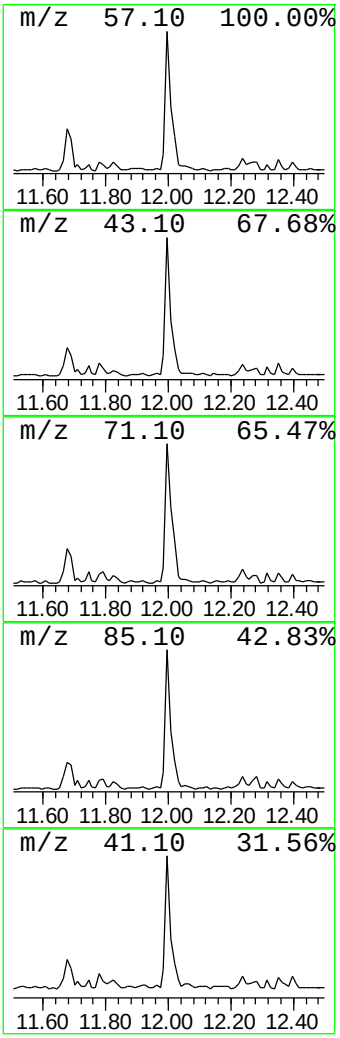
Peak Number 15 Heptadecane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 36.71 ng | 755690 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 97 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 93 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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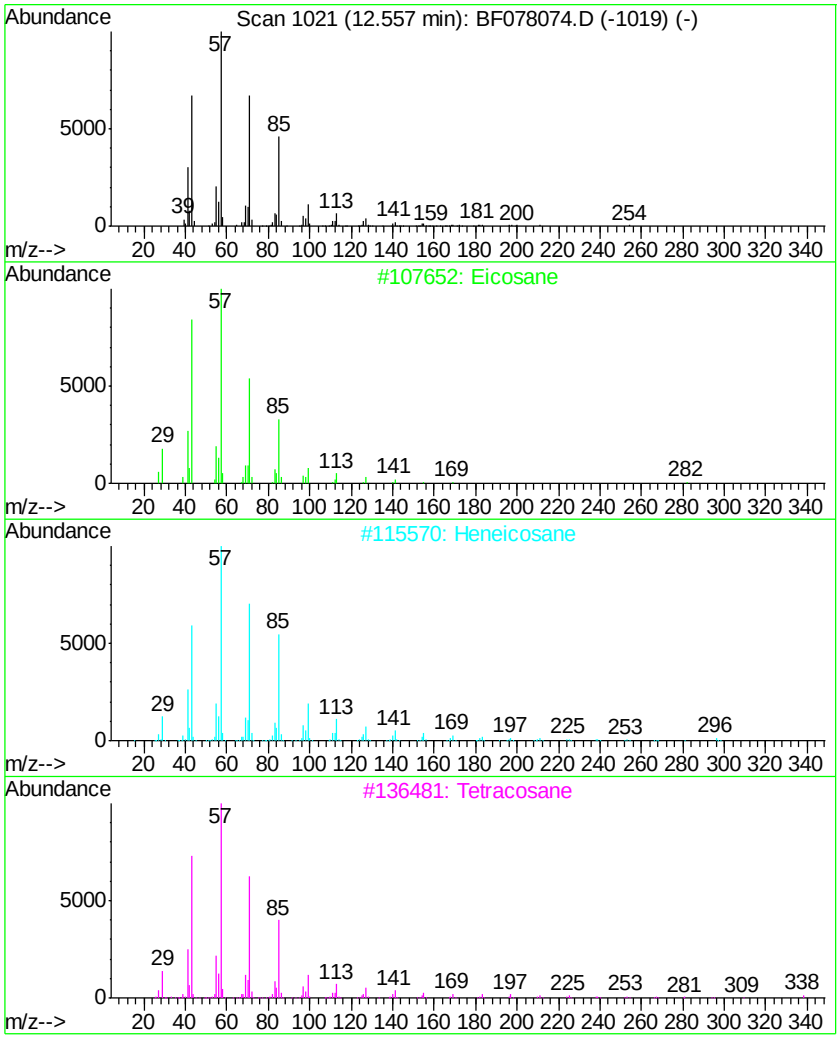
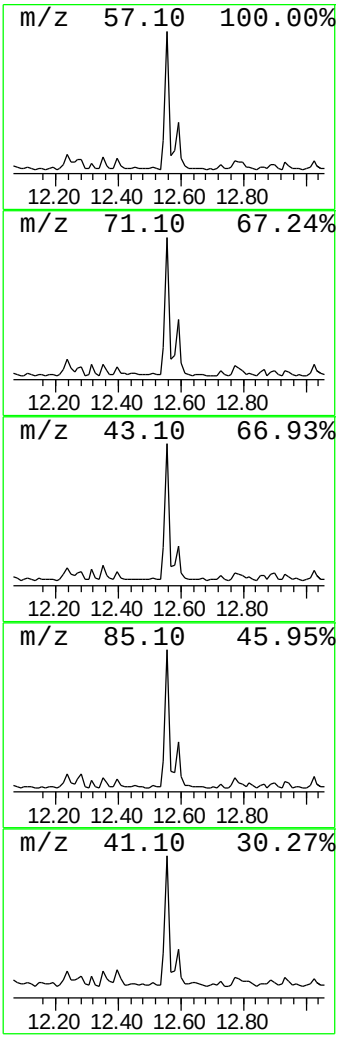
Peak Number 16 Eicosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.56 | 21.68 ng | 446281 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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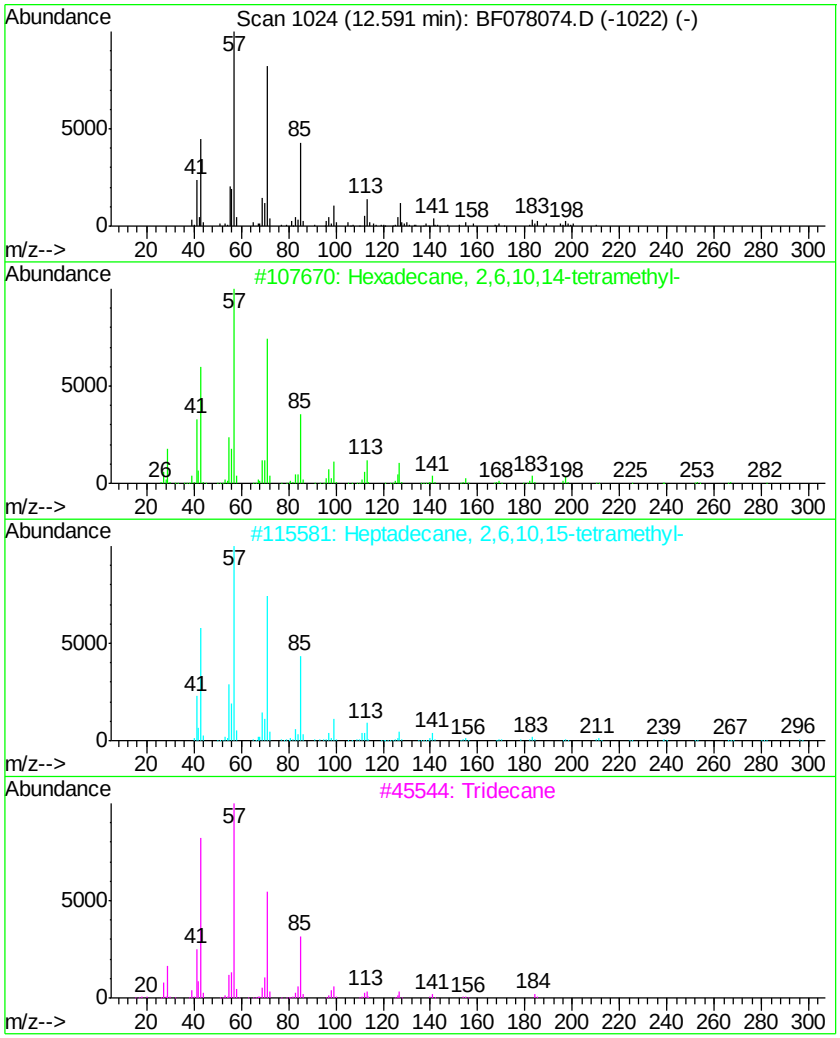
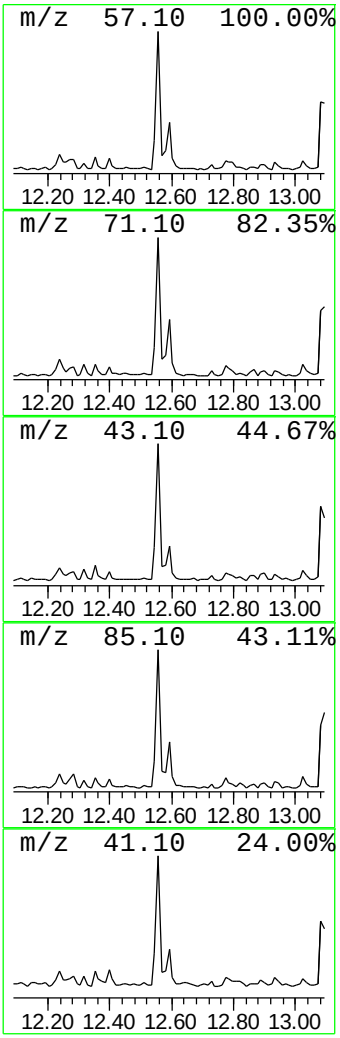
Peak Number 17 Hexadecane, 2,6,10,14-tetra... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 9.81 ng | 202018 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 91 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 87 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 80 |
| 4 | 5,5-Dibutylnonane | 240 | C17H36 | 006008-17-9 | 78 |
| 5 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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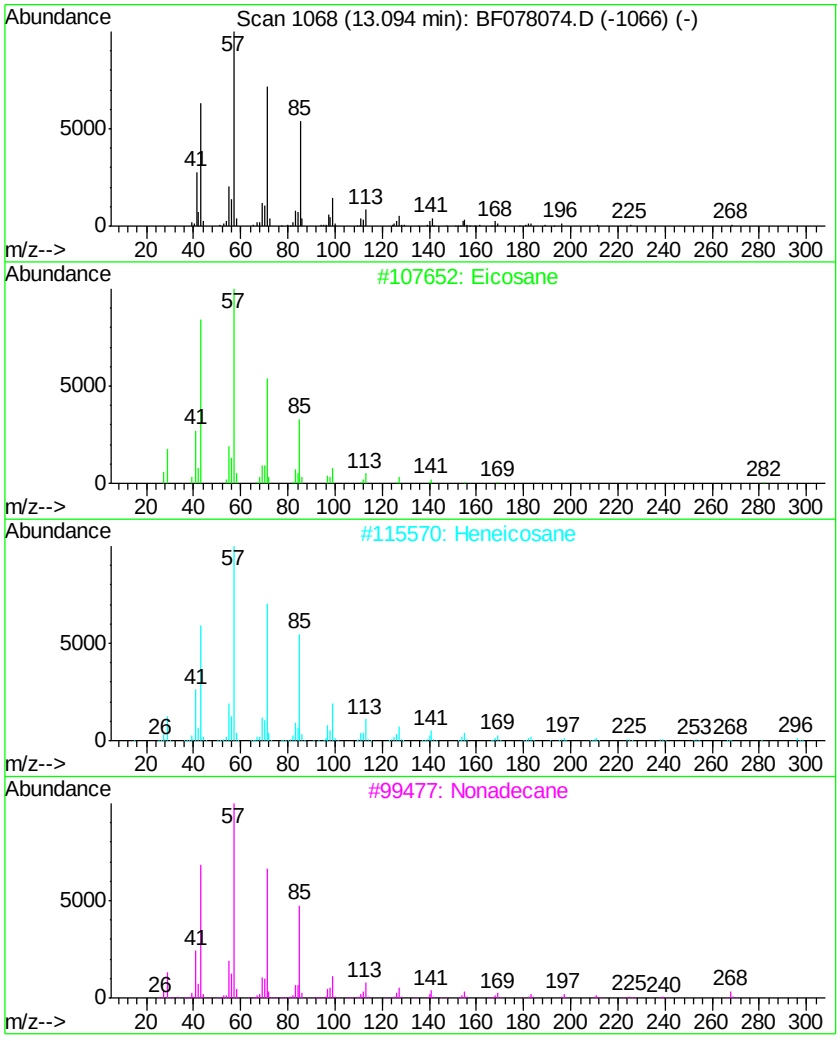
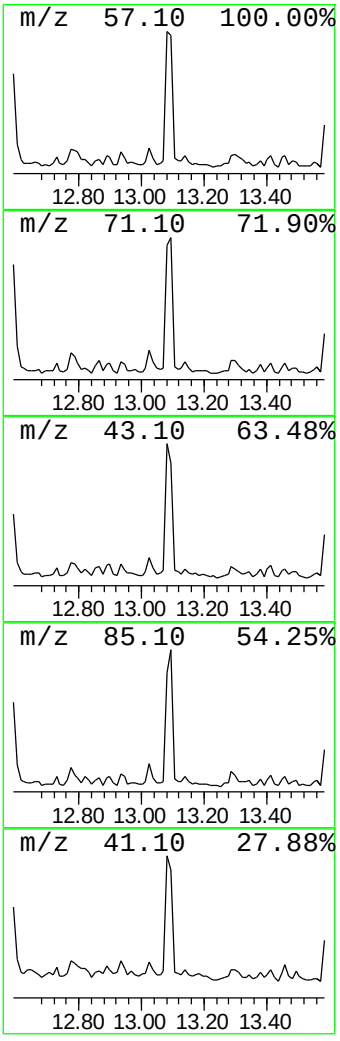
Peak Number 18 Heneicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.09 | 17.36 ng | 357320 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 90 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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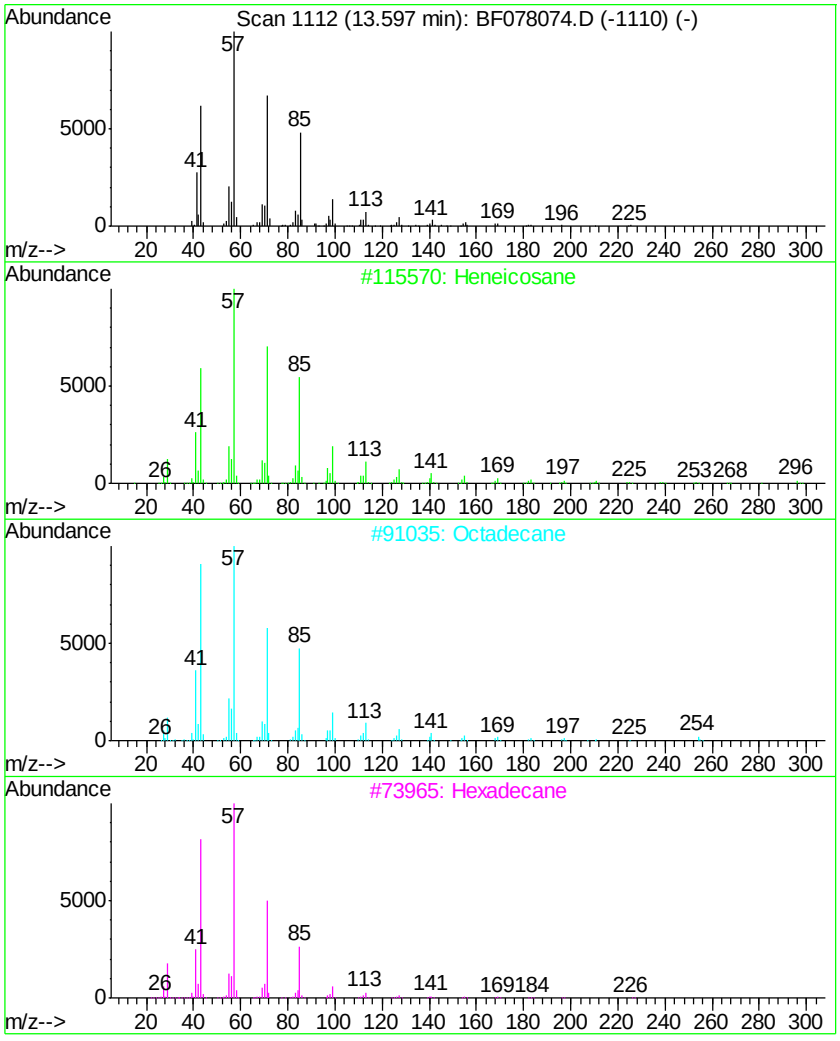
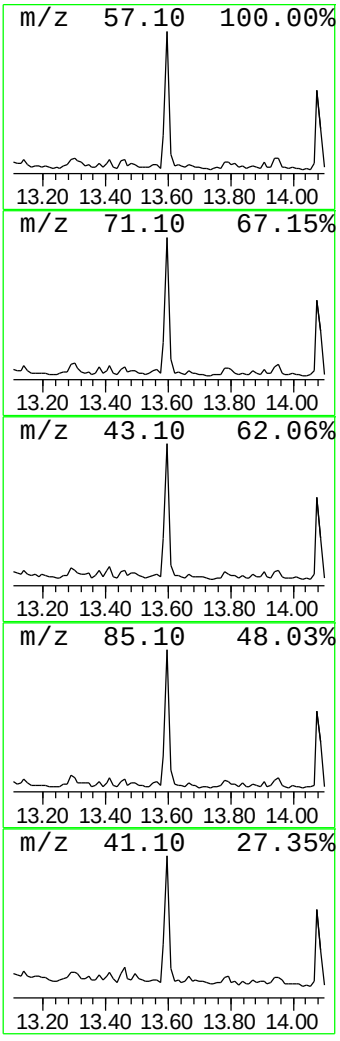
Peak Number 19 Octadecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.60 | 14.80 ng | 304746 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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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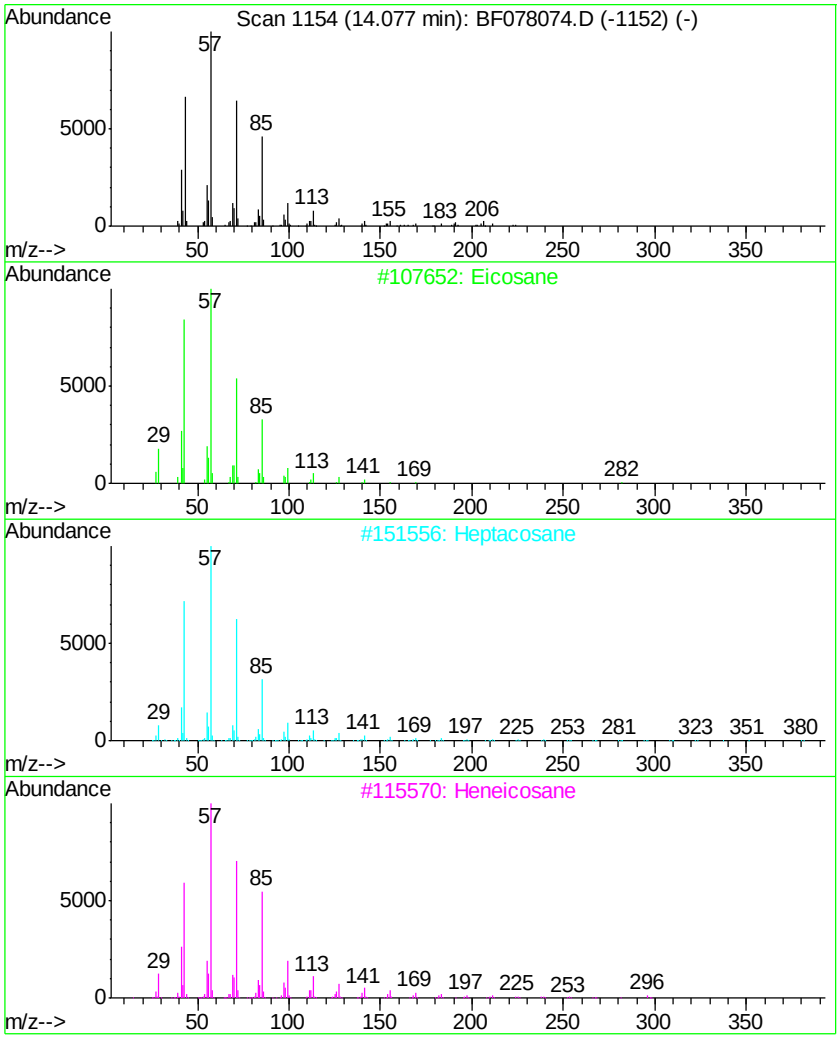
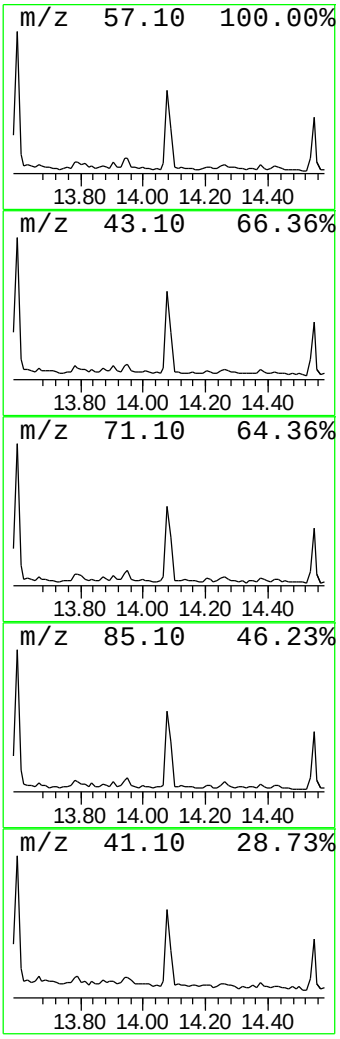
Peak Number 20 Pentacosane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.08 | 9.92 ng | 204260 | Phenanthrene-d10 | 12.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | Pentacosane | 352 | C25H52 | 000629-99-2 | 90 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 86 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032715\
Data File : BF078074.D
Acq On : 28 Mar 2015 11:14
Operator : TP/IZ
Sample : G1677-10
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PE-4(7.5-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031115.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 |
| Propane, 2,2-dime... | 1.23 | 24.8 | ng | 266265 | 1 | 7.07 | 214922 | 20.0 |
| 2-Pentanone, 4-hy... | 4.81 | 9.8 | ng | 105393 | 1 | 7.07 | 214922 | 20.0 |
| unknown6.78 | 6.78 | 89.4 | ng | 961129 | 1 | 7.07 | 214922 | 20.0 |
| Tetradecane | 6.89 | 9.0 | ng | 96831 | 1 | 7.07 | 214922 | 20.0 |
| Undecane | 7.84 | 20.8 | ng | 223777 | 1 | 7.07 | 214922 | 20.0 |
| Octane, 2,6-dimet... | 9.22 | 12.9 | ng | 212643 | 2 | 8.65 | 331044 | 20.0 |
| Nonane, 5-butyl- | 9.42 | 27.5 | ng | 455210 | 2 | 8.65 | 331044 | 20.0 |
| Nonadecane | 10.13 | 24.5 | ng | 572092 | 3 | 10.82 | 466264 | 20.0 |
| Naphthalene, 1,6-... | 10.43 | 9.4 | ng | 220384 | 3 | 10.82 | 466264 | 20.0 |
| Naphthalene, 2,3,... | 11.08 | 8.7 | ng | 202538 | 3 | 10.82 | 466264 | 20.0 |
| Hexadecane | 11.41 | 21.4 | ng | 499032 | 3 | 10.82 | 466264 | 20.0 |
| Hexacosane | 11.68 | 11.7 | ng | 272193 | 3 | 10.82 | 466264 | 20.0 |
| Heptadecane | 12.00 | 36.7 | ng | 755690 | 4 | 12.65 | 411746 | 20.0 |
| Eicosane | 12.56 | 21.7 | ng | 446281 | 4 | 12.65 | 411746 | 20.0 |
| Hexadecane, 2,6,1... | 12.59 | 9.8 | ng | 202018 | 4 | 12.65 | 411746 | 20.0 |
| Heneicosane | 13.09 | 17.4 | ng | 357320 | 4 | 12.65 | 411746 | 20.0 |
| Octadecane | 13.60 | 14.8 | ng | 304746 | 4 | 12.65 | 411746 | 20.0 |
| Pentacosane | 14.08 | 9.9 | ng | 204260 | 4 | 12.65 | 411746 | 20.0 |