LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

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_G\METHODS\8270-BG060616.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 | 2.968 | 16 | 22 | 36 | rBV | 607851 | 986307 | 52.44% | 8.177% |
| 2 | 3.749 | 151 | 155 | 165 | rBV | 18251 | 34350 | 1.83% | 0.285% |
| 3 | 5.177 | 392 | 398 | 407 | rBV2 | 22723 | 42799 | 2.28% | 0.355% |
| 4 | 5.659 | 472 | 480 | 495 | rBV | 404570 | 759182 | 40.37% | 6.294% |
| 5 | 7.268 | 747 | 754 | 773 | rBV | 435817 | 859808 | 45.72% | 7.128% |
| 6 | 7.639 | 809 | 817 | 832 | rBV | 463736 | 888841 | 47.26% | 7.369% |
| 7 | 8.109 | 886 | 897 | 904 | rBV | 79507 | 154218 | 8.20% | 1.278% |
| 8 | 8.432 | 944 | 952 | 963 | rBV | 334858 | 653766 | 34.76% | 5.420% |
| 9 | 9.278 | 1088 | 1096 | 1111 | rBV | 243751 | 503938 | 26.80% | 4.178% |
| 10 | 10.929 | 1369 | 1377 | 1387 | rBV | 119485 | 245957 | 13.08% | 2.039% |
| 11 | 13.361 | 1783 | 1791 | 1807 | rBV | 752065 | 1278874 | 68.00% | 10.602% |
| 12 | 14.178 | 1922 | 1930 | 1943 | rBV | 270589 | 443520 | 23.58% | 3.677% |
| 13 | 14.736 | 2018 | 2025 | 2035 | rVB2 | 197355 | 355787 | 18.92% | 2.949% |
| 14 | 16.229 | 2272 | 2279 | 2291 | rBV | 534426 | 905557 | 48.15% | 7.507% |
| 15 | 17.486 | 2486 | 2493 | 2506 | rBV2 | 242990 | 432804 | 23.01% | 3.588% |
| 16 | 17.838 | 2546 | 2553 | 2563 | rBV2 | 42820 | 93323 | 4.96% | 0.774% |
| 17 | 17.944 | 2566 | 2571 | 2575 | rVB | 14427 | 20438 | 1.09% | 0.169% |
| 18 | 18.632 | 2683 | 2688 | 2697 | rVB2 | 13184 | 19459 | 1.03% | 0.161% |
| 19 | 19.196 | 2779 | 2784 | 2792 | rBV | 51844 | 102224 | 5.44% | 0.847% |
| 20 | 19.754 | 2874 | 2879 | 2885 | rBV | 114702 | 145322 | 7.73% | 1.205% |
| 21 | 19.865 | 2895 | 2898 | 2907 | rVB4 | 17029 | 32732 | 1.74% | 0.271% |
| 22 | 20.077 | 2928 | 2934 | 2948 | rBV | 1304262 | 1880681 | 100.00% | 15.591% |
| 23 | 20.788 | 3051 | 3055 | 3063 | rBV2 | 74724 | 110614 | 5.88% | 0.917% |
| 24 | 21.364 | 3149 | 3153 | 3162 | rVB5 | 27838 | 47735 | 2.54% | 0.396% |
| 25 | 21.757 | 3213 | 3220 | 3234 | rBV2 | 242822 | 477880 | 25.41% | 3.962% |
| 26 | 21.916 | 3243 | 3247 | 3253 | rVB3 | 11355 | 19408 | 1.03% | 0.161% |
| 27 | 23.226 | 3464 | 3470 | 3479 | rVB7 | 23585 | 49665 | 2.64% | 0.412% |
| 28 | 23.426 | 3499 | 3504 | 3515 | rVB6 | 13185 | 31139 | 1.66% | 0.258% |
| 29 | 24.043 | 3606 | 3609 | 3617 | rVB6 | 13400 | 29496 | 1.57% | 0.245% |
| 30 | 25.053 | 3766 | 3781 | 3794 | rBV3 | 138404 | 456846 | 24.29% | 3.787% |

Sum of corrected areas: 12062670

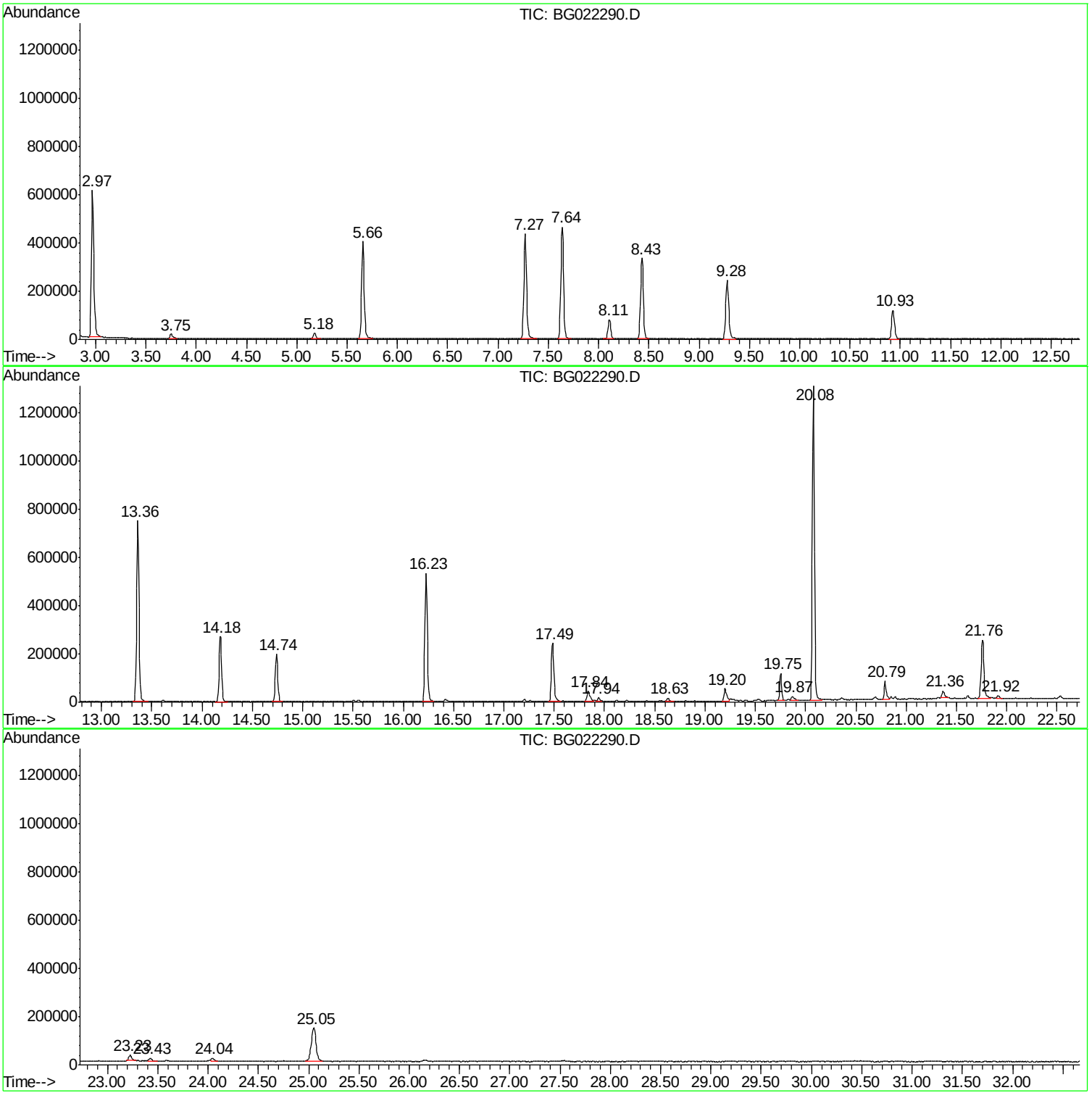
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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Data File : BG022290.D
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**Instrument :** BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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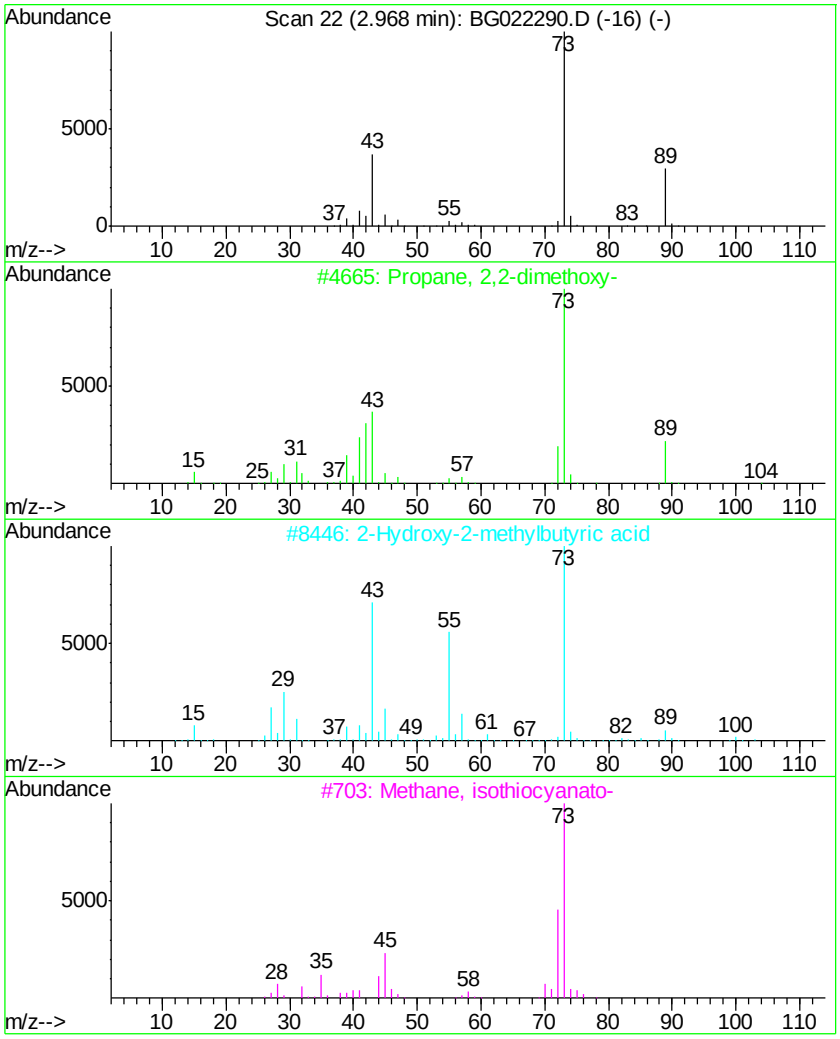
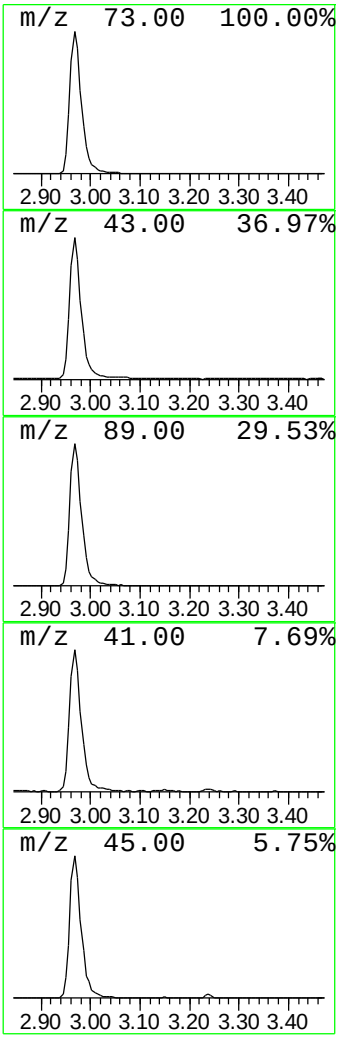
Peak Number 1 unknown2.97 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.97 | 127.91 ng | 986307 | 1,4-Dichlorobenzene-d4 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 45 |
| 2 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9 |
| 3 | Methane, isothiocyanato- | 73 | C2H3NS | 000556-61-6 | 7 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 5 |
| 5 | 1,3,5-Trioxane | 90 | C3H6O3 | 000110-88-3 | 4 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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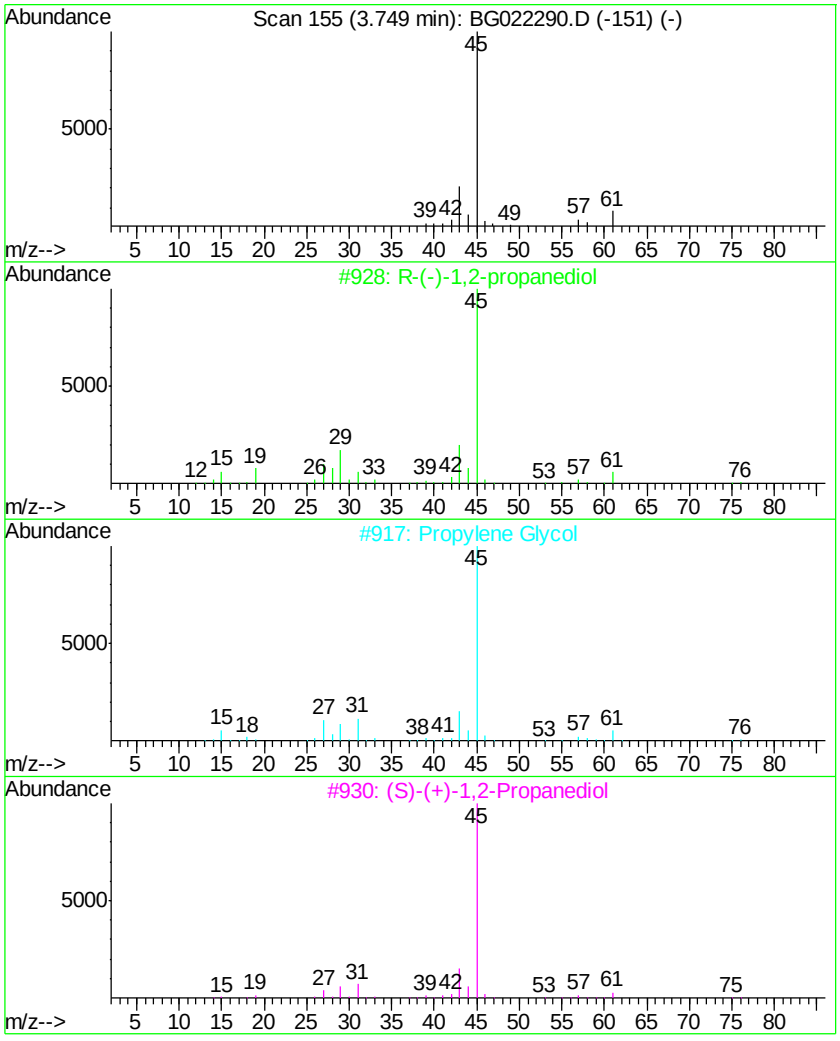
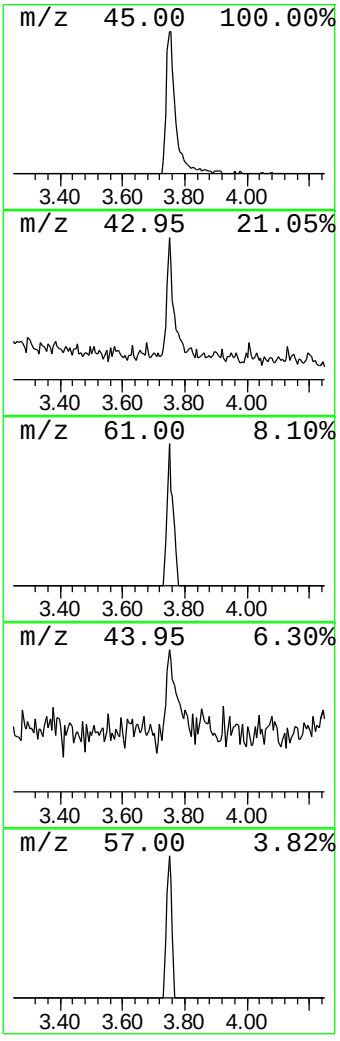
Peak Number 2 unknown3.75 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.75 | 4.45 ng | 34350 | 1,4-Dichlorobenzene-d4 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | R-(-)-1,2-propanediol | 76 | C3H8O2 | 004254-14-2 | 43 |
| 2 | Propylene Glycol | 76 | C3H8O2 | 000057-55-6 | 9 |
| 3 | (S)-(+)-1,2-Propanediol | 76 | C3H8O2 | 004254-15-3 | 9 |
| 4 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 9 |
| 5 | Formamide | 45 | CH3NO | 000075-12-7 | 5 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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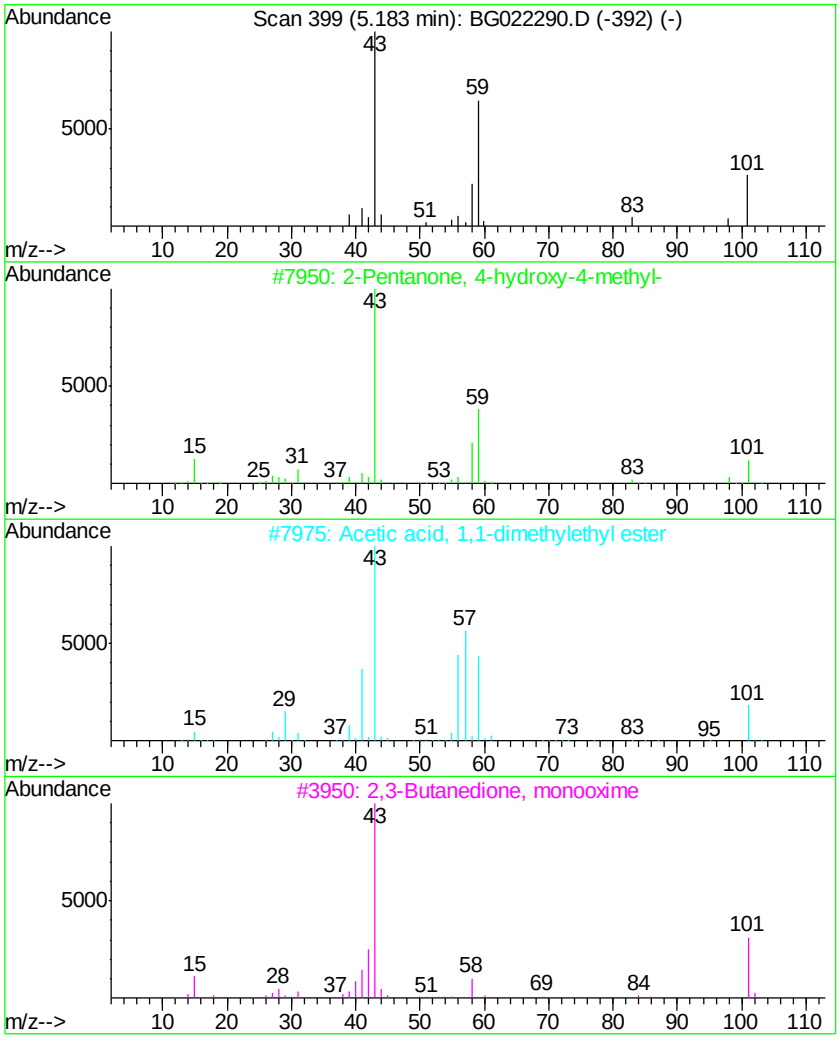
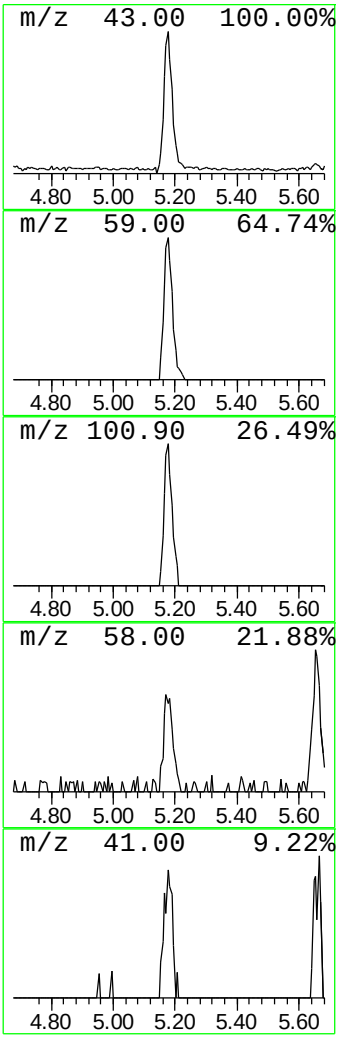
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.18 | 5.55 ng | 42799 | 1,4-Dichlorobenzene-d4 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 78 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 32 |
| 4 | 1,8-Nonanediol, 8-methyl- | 174 | C10H22O2 | 054725-73-4 | 17 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 10 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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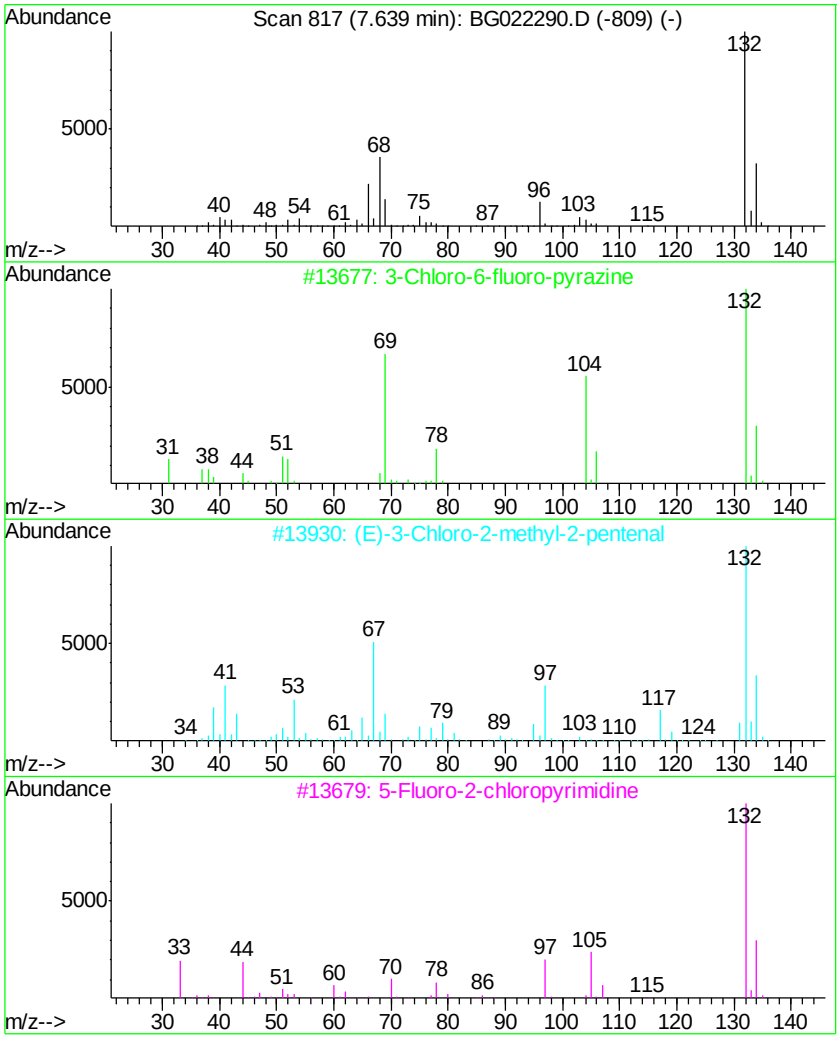
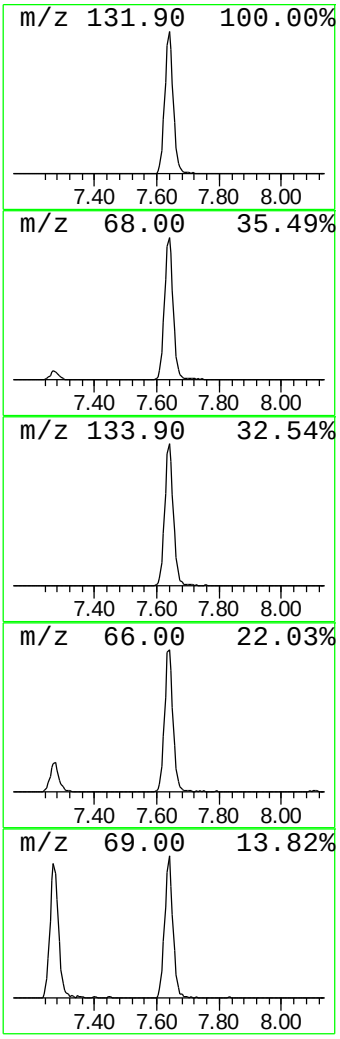
Peak Number 4 unknown7.64 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.64 | 115.27 ng | 888841 | 1,4-Dichlorobenzene-d4 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 35 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 4 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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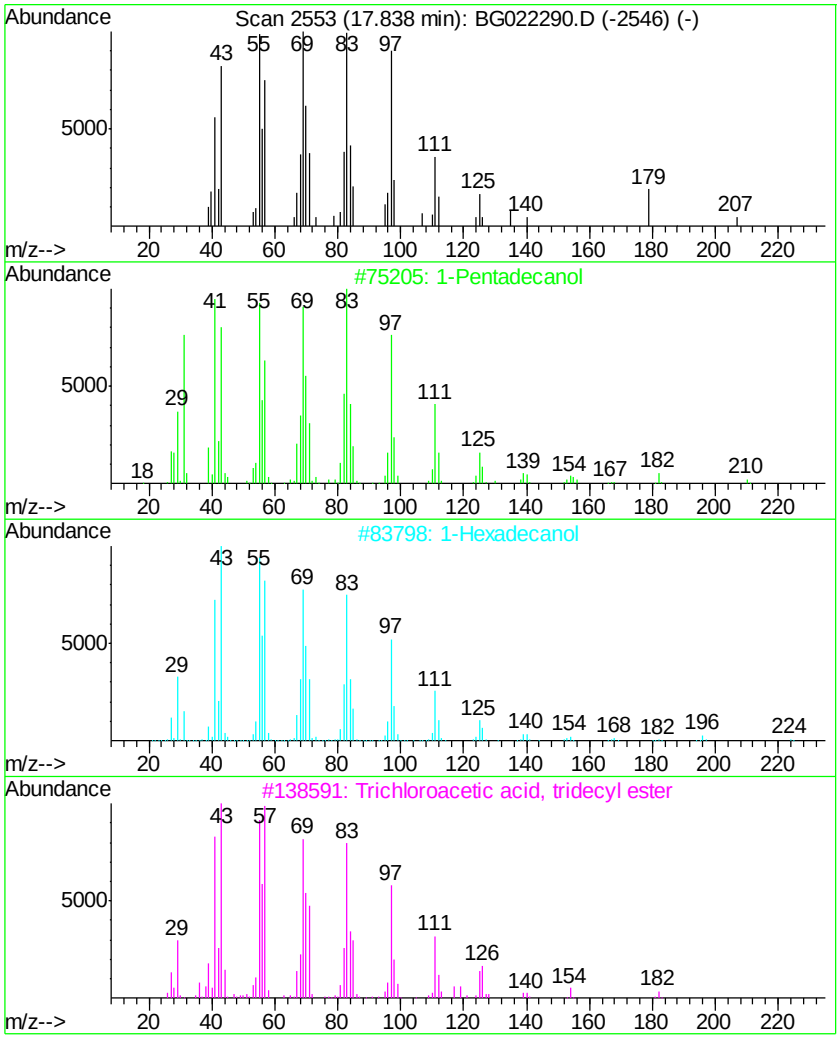
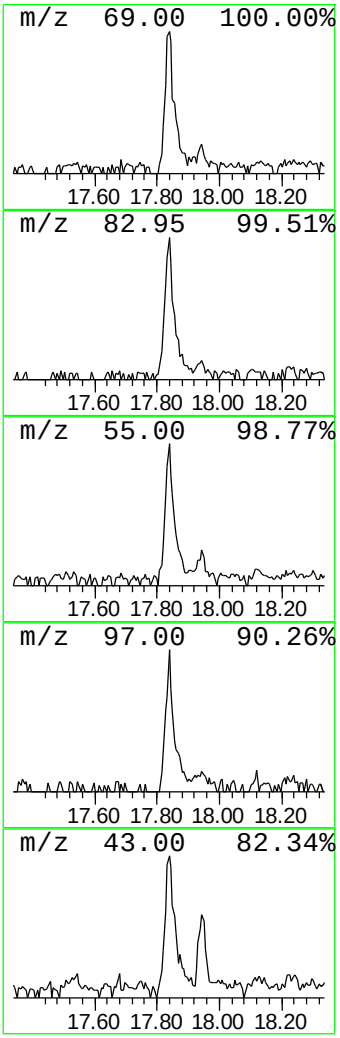
Peak Number 6 1-Pentadecanol Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.84 | 4.31 ng | 93323 | Phenanthrene-d10 | 17.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentadecanol | 228 | C15H32O | 000629-76-5 | 94 |
| 2 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 91 |
| 3 | Trichloroacetic acid, tridecyl e... | 344 | C15H27Cl3O2 | 074339-51-8 | 87 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 1000280-07-5 | 86 |
| 5 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 86 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

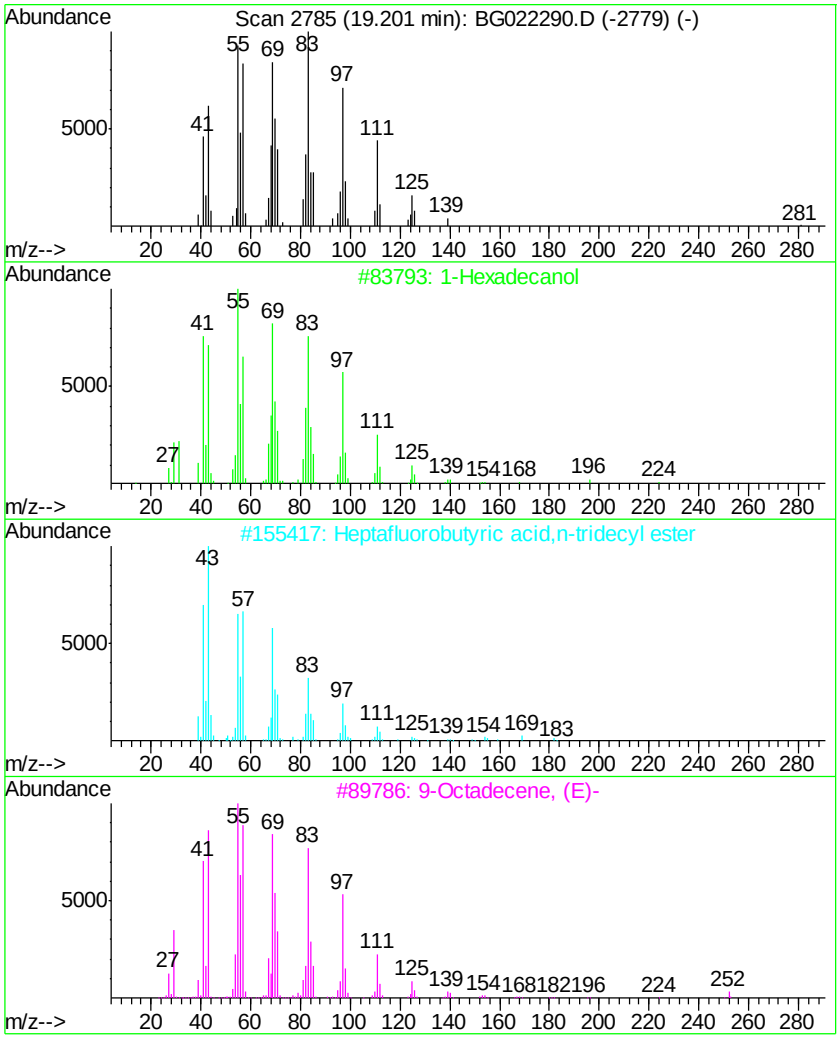
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

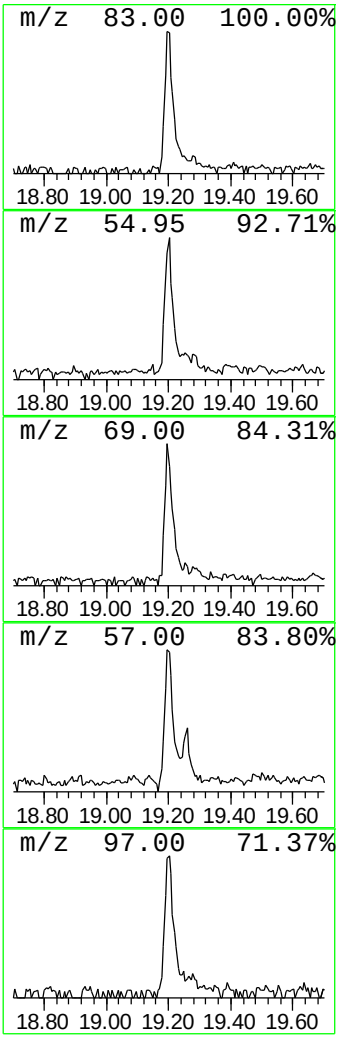
**********

Peak Number 7 1-Hexadecanol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.20 | 4.72 ng | 102224 | Phenanthrene-d10 | 17.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 90 |
| 2 | Heptafluorobutyric acid,n-tridec... | 396 | C17H27F7O2 | 1000216-78-9 | 86 |
| 3 | 9-Octadecene, (E)- | 252 | C18H36 | 007206-25-9 | 72 |
| 4 | Hexadecen-1-ol, trans-9- | 240 | C16H32O | 064437-47-4 | 72 |
| 5 | 4-Heptafluorobutyryloxyhexadecane | 438 | C20H33F7O2 | 1000282-97-2 | 68 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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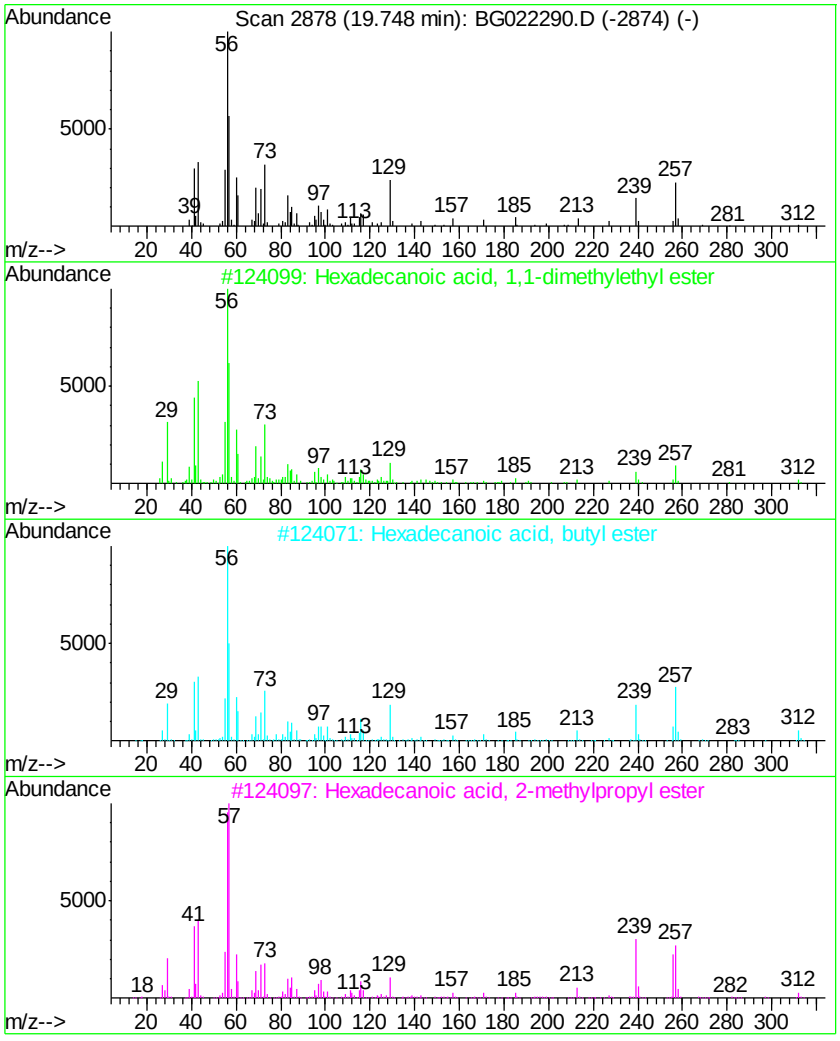
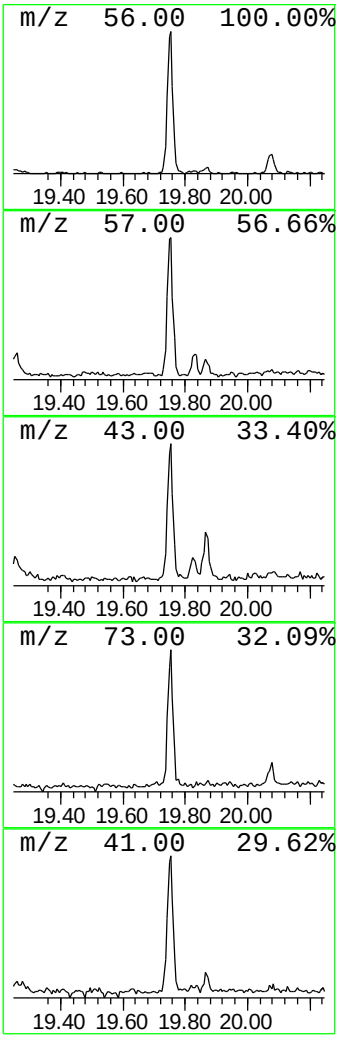
Peak Number 8 Hexadecanoic acid, 1,1-dime... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.75 | 6.08 ng | 145322 | Chrysene-d12 | 21.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 98 |
| 2 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 96 |
| 3 | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 86 |
| 4 | Nipecotic acid | 129 | C6H11NO2 | 000498-95-3 | 47 |
| 5 | 1-Hexene, 2,5-dimethyl- | 112 | C8H16 | 006975-92-4 | 27 |



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ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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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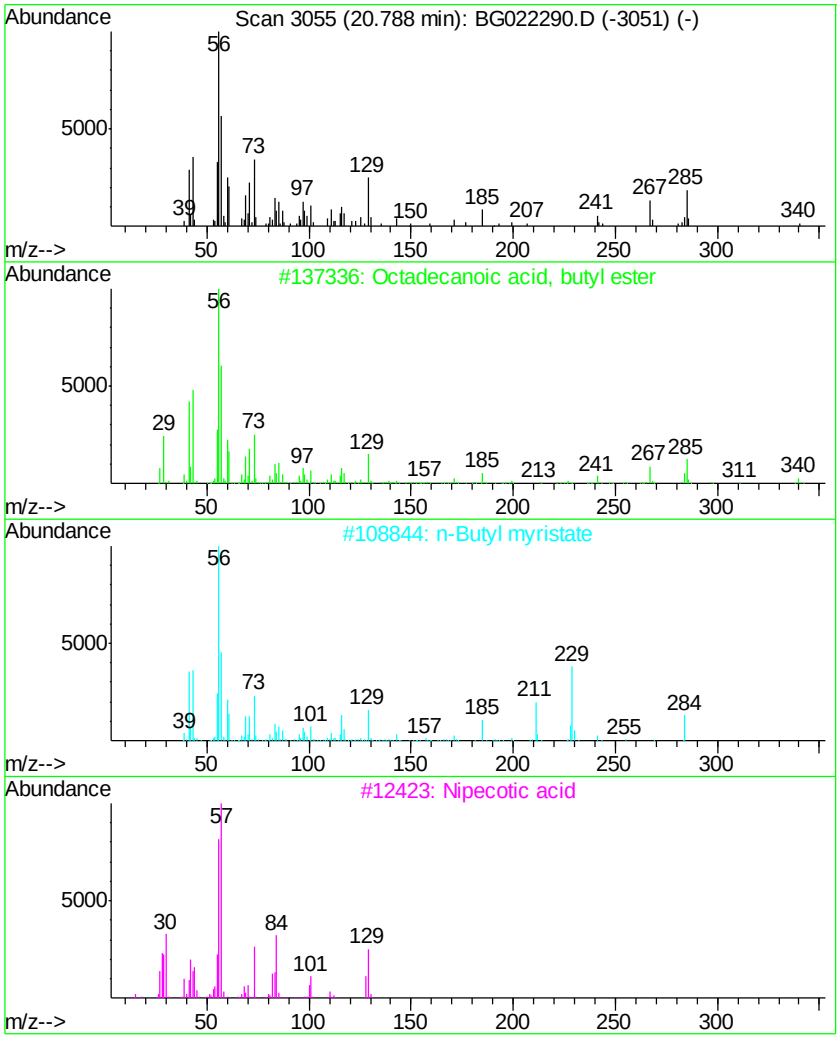
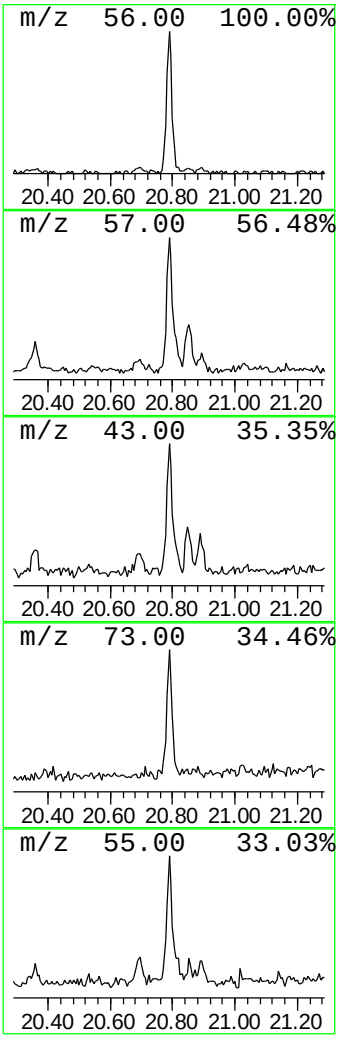
Peak Number 9 Octadecanoic acid, butyl ester Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.79 | 4.63 ng | 110614 | Chrysene-d12 | 21.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid, butyl ester | 340 | C22H44O2 | 000123-95-5 | 94 |
| 2 | n-Butyl myristate | 284 | C18H36O2 | 000110-36-1 | 59 |
| 3 | Nipecotic acid | 129 | C6H11NO2 | 000498-95-3 | 38 |
| 4 | Octadecanoic acid, 2-methylpropy... | 340 | C22H44O2 | 000646-13-9 | 32 |
| 5 | 1-Hexene, 2-methyl- | 98 | C7H14 | 006094-02-6 | 30 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
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Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

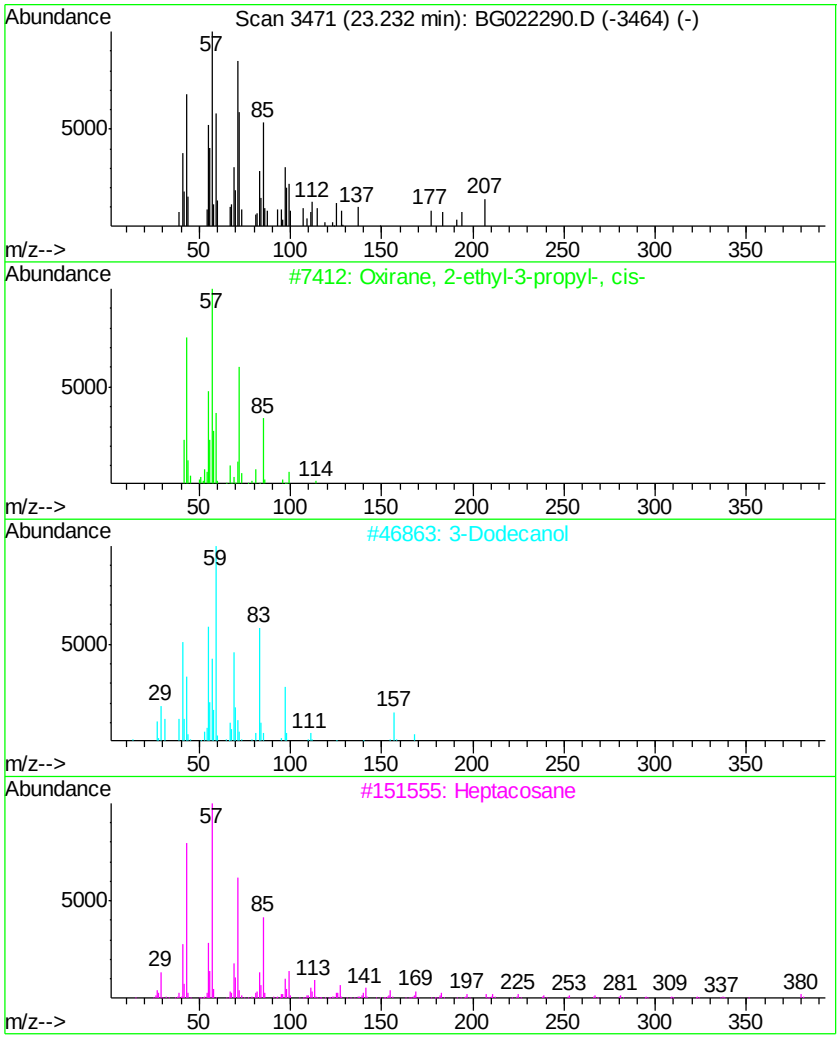
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

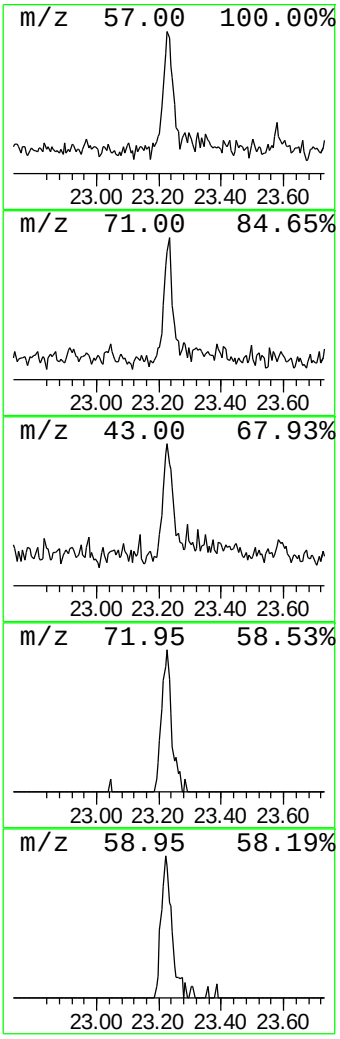
**********

Peak Number 10 unknown23.23 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.23 | 2.08 ng | 49665 | Chrysene-d12 | 21.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, 2-ethyl-3-propyl-, cis- | 114 | C7H14O | 056052-94-9 | 42 |
| 2 | 3-Dodecanol | 186 | C12H26O | 010203-30-2 | 27 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 22 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 20 |
| 5 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 18 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061016\
Data File : BG022290.D
Acq On : 10 Jun 2016 16:23
Operator : UM/SJ
Sample : H3438-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-12-COMP

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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 |
| unknown2.97 | 2.97 | 127.9 | ng | 986307 | 1 | 8.10 | 154218 | 20.0 |
| unknown3.75 | 3.75 | 4.5 | ng | 34350 | 1 | 8.10 | 154218 | 20.0 |
| 2-Pentanone, 4-hy... | 5.18 | 5.5 | ng | 42799 | 1 | 8.10 | 154218 | 20.0 |
| unknown7.64 | 7.64 | 115.3 | ng | 888841 | 1 | 8.10 | 154218 | 20.0 |
| 1-Pentadecanol | 17.84 | 4.3 | ng | 93323 | 4 | 17.49 | 432804 | 20.0 |
| 1-Hexadecanol | 19.20 | 4.7 | ng | 102224 | 4 | 17.49 | 432804 | 20.0 |
| Hexadecanoic acid... | 19.75 | 6.1 | ng | 145322 | 5 | 21.76 | 477880 | 20.0 |
| Octadecanoic acid... | 20.79 | 4.6 | ng | 110614 | 5 | 21.76 | 477880 | 20.0 |
| unknown23.23 | 23.23 | 2.1 | ng | 49665 | 5 | 21.76 | 477880 | 20.0 |