LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

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-BF043015.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 | 1.290 | 8 | 9 | 12 | rVB | 72096 | 92702 | 3.18% | 0.467% |
| 2 | 1.381 | 15 | 17 | 20 | rVB | 1336647 | 1672978 | 57.46% | 8.429% |
| 3 | 1.553 | 31 | 32 | 41 | rVB3 | 29170 | 60614 | 2.08% | 0.305% |
| 4 | 1.701 | 41 | 45 | 52 | rVV2 | 888646 | 1834805 | 63.02% | 9.244% |
| 5 | 1.827 | 54 | 56 | 97 | rVB | 1117356 | 2911649 | 100.00% | 14.670% |
| 6 | 4.204 | 262 | 264 | 275 | rVB | 95211 | 148053 | 5.08% | 0.746% |
| 7 | 4.970 | 328 | 331 | 333 | rBV | 56359 | 65809 | 2.26% | 0.332% |
| 8 | 5.016 | 333 | 335 | 340 | rVB | 116588 | 151028 | 5.19% | 0.761% |
| 9 | 5.530 | 377 | 380 | 382 | rBV | 1020005 | 1093836 | 37.57% | 5.511% |
| 10 | 6.799 | 488 | 491 | 493 | rBV | 1329857 | 1168207 | 40.12% | 5.886% |
| 11 | 6.947 | 501 | 504 | 506 | rBV | 1068004 | 1202438 | 41.30% | 6.058% |
| 12 | 7.233 | 527 | 529 | 531 | rBV | 342664 | 318269 | 10.93% | 1.604% |
| 13 | 7.416 | 543 | 545 | 548 | rBV | 960180 | 867490 | 29.79% | 4.371% |
| 14 | 7.919 | 587 | 589 | 592 | rBV | 571570 | 667869 | 22.94% | 3.365% |
| 15 | 8.810 | 665 | 667 | 669 | rBV | 552449 | 493599 | 16.95% | 2.487% |
| 16 | 10.159 | 782 | 785 | 787 | rBV | 1642442 | 1610419 | 55.31% | 8.114% |
| 17 | 10.662 | 827 | 829 | 831 | rBV | 53151 | 44460 | 1.53% | 0.224% |
| 18 | 10.982 | 855 | 857 | 860 | rVB | 577882 | 549242 | 18.86% | 2.767% |
| 19 | 11.965 | 940 | 943 | 946 | rBV | 960352 | 943181 | 32.39% | 4.752% |
| 20 | 12.822 | 1016 | 1018 | 1020 | rBV | 433337 | 554604 | 19.05% | 2.794% |
| 21 | 14.845 | 1193 | 1195 | 1198 | rBV | 1251959 | 1728848 | 59.38% | 8.710% |
| 22 | 15.634 | 1259 | 1264 | 1265 | rBV5 | 14450 | 32383 | 1.11% | 0.163% |
| 23 | 16.137 | 1303 | 1308 | 1316 | rBV2 | 102722 | 271141 | 9.31% | 1.366% |
| 24 | 16.263 | 1316 | 1319 | 1321 | rVV | 561139 | 665038 | 22.84% | 3.351% |
| 25 | 17.668 | 1440 | 1442 | 1445 | rVB | 51026 | 63205 | 2.17% | 0.318% |
| 26 | 18.331 | 1497 | 1500 | 1502 | rBV | 417791 | 636364 | 21.86% | 3.206% |

Sum of corrected areas: 19848231

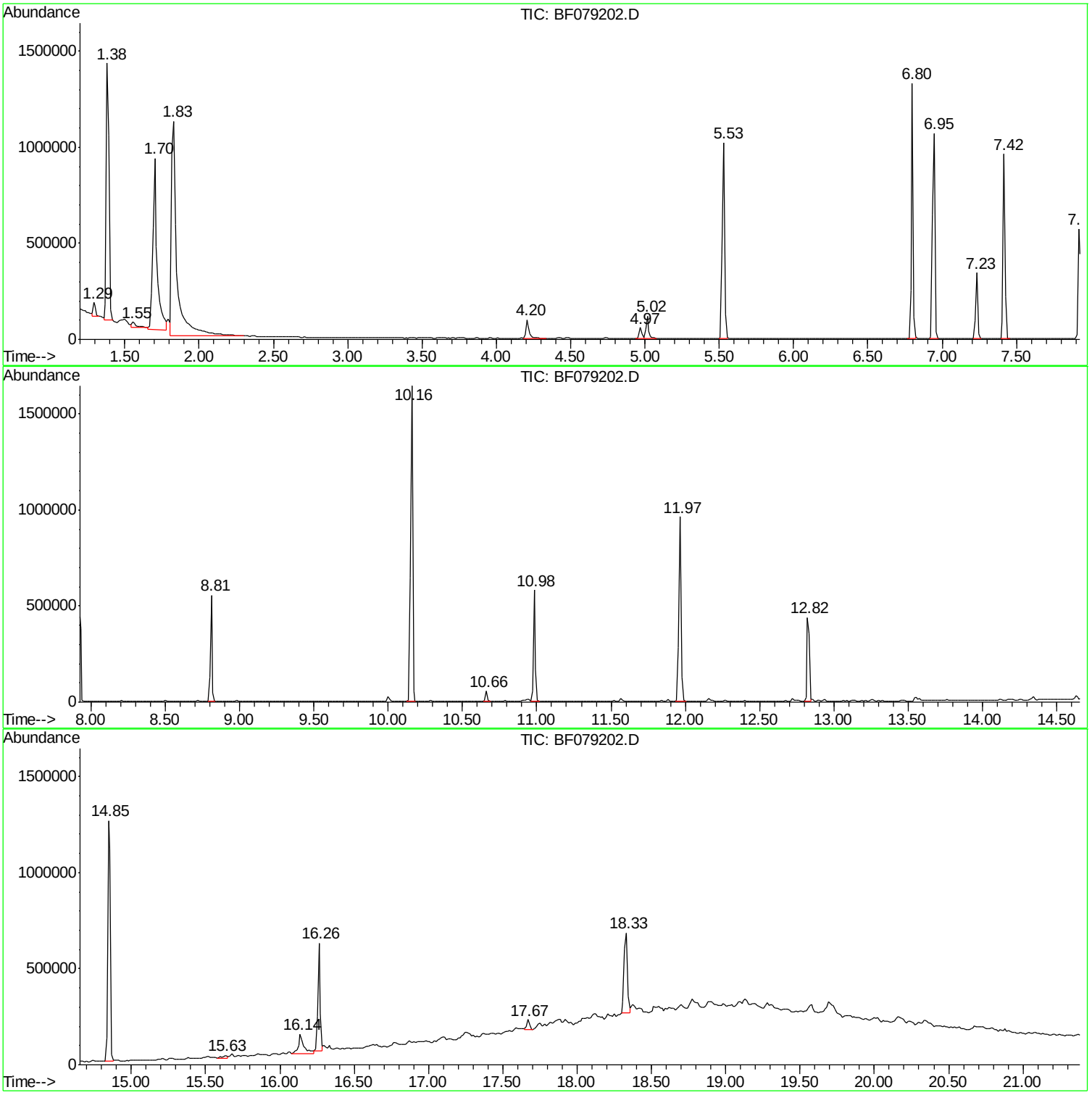
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

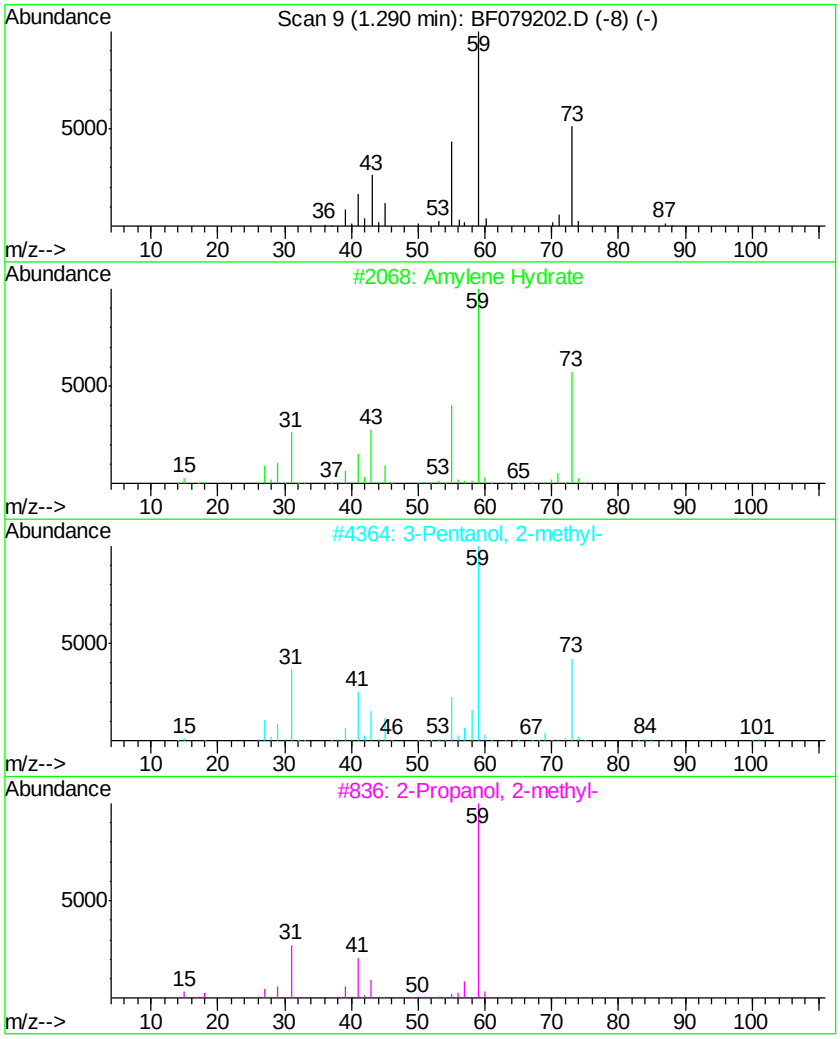
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

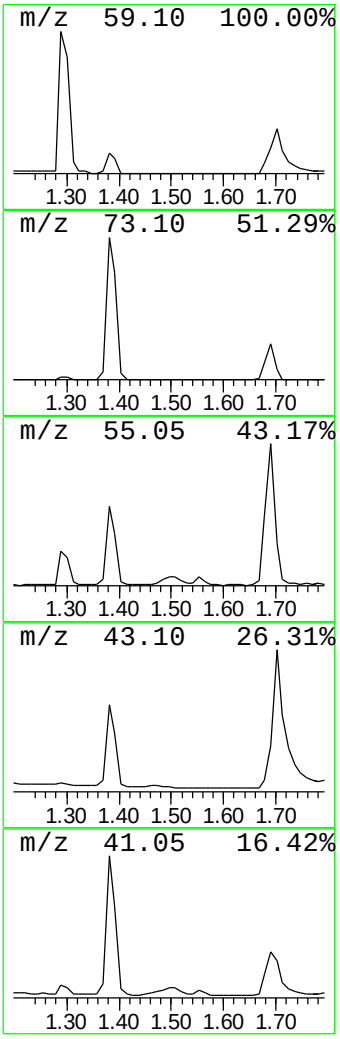
**********

Peak Number 1 Amylene Hydrate Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.29 | 5.83 ng | 92702 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Amylene Hydrate | 88 | C5H12O | 000075-85-4 | 83 |
| 2 | 3-Pentanol, 2-methyl- | 102 | C6H14O | 000565-67-3 | 40 |
| 3 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 33 |
| 4 | 2-Methyl-5-hexen-3-ol | 114 | C7H14O | 032815-70-6 | 10 |
| 5 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

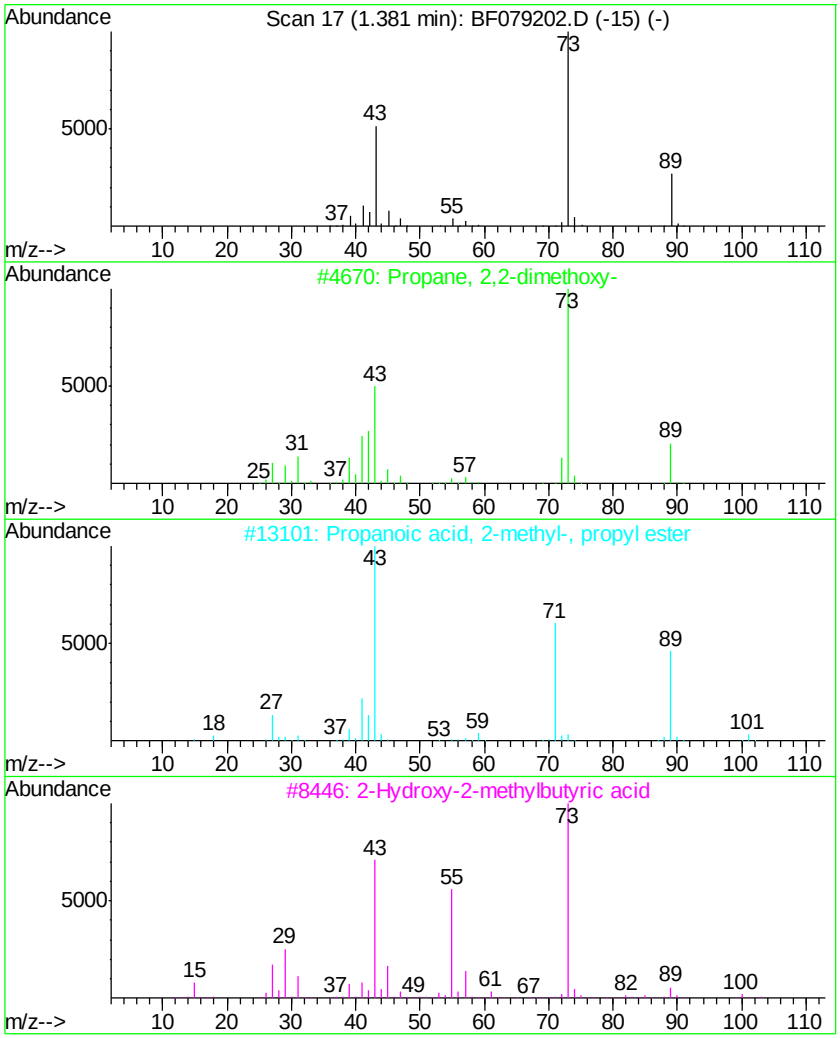
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

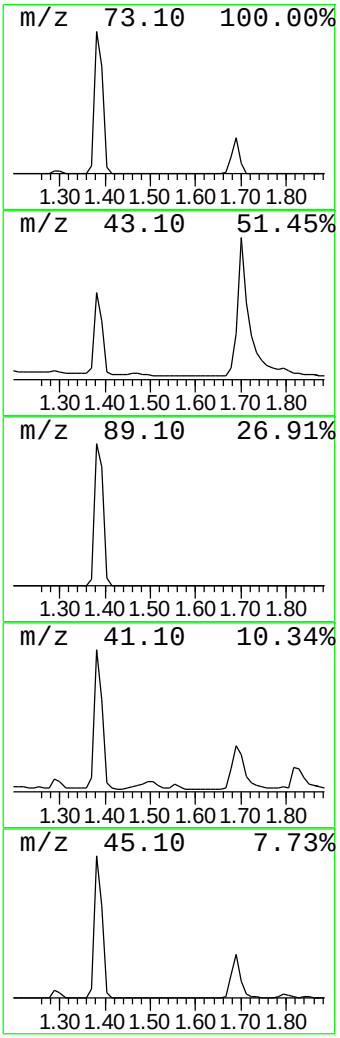
**********

Peak Number 2 Propane, 2,2-dimethoxy- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.38 | 105.13 ng | 1672980 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 72 |
| 2 | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 9 |
| 3 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9 |
| 4 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |
| 5 | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

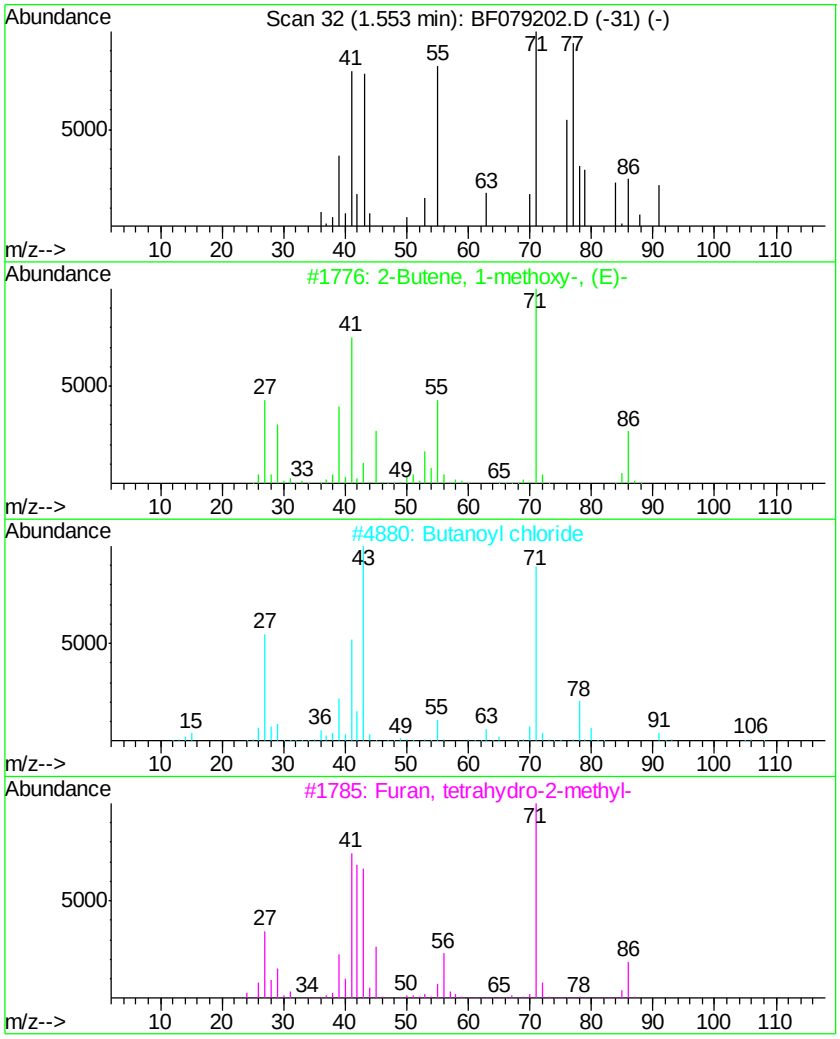
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

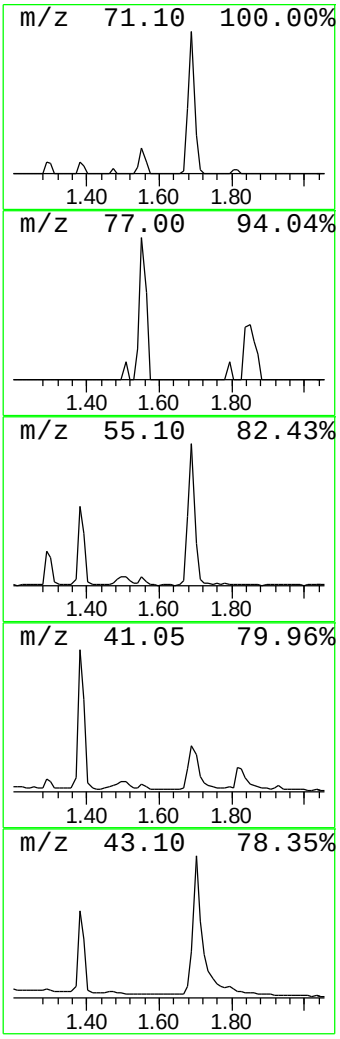
**********

Peak Number 3 unknown1.55 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.55 | 3.81 ng | 60614 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butene, 1-methoxy-, (E)- | 86 | C5H10O | 010034-14-7 | 12 |
| 2 | Butanoyl chloride | 106 | C4H7ClO | 000141-75-3 | 10 |
| 3 | Furan, tetrahydro-2-methyl- | 86 | C5H10O | 000096-47-9 | 10 |
| 4 | Butane, 2-bromo-2-methyl- | 150 | C5H11Br | 000507-36-8 | 10 |
| 5 | 2-Butene, 4-methoxy | 86 | C5H10O | 018408-99-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

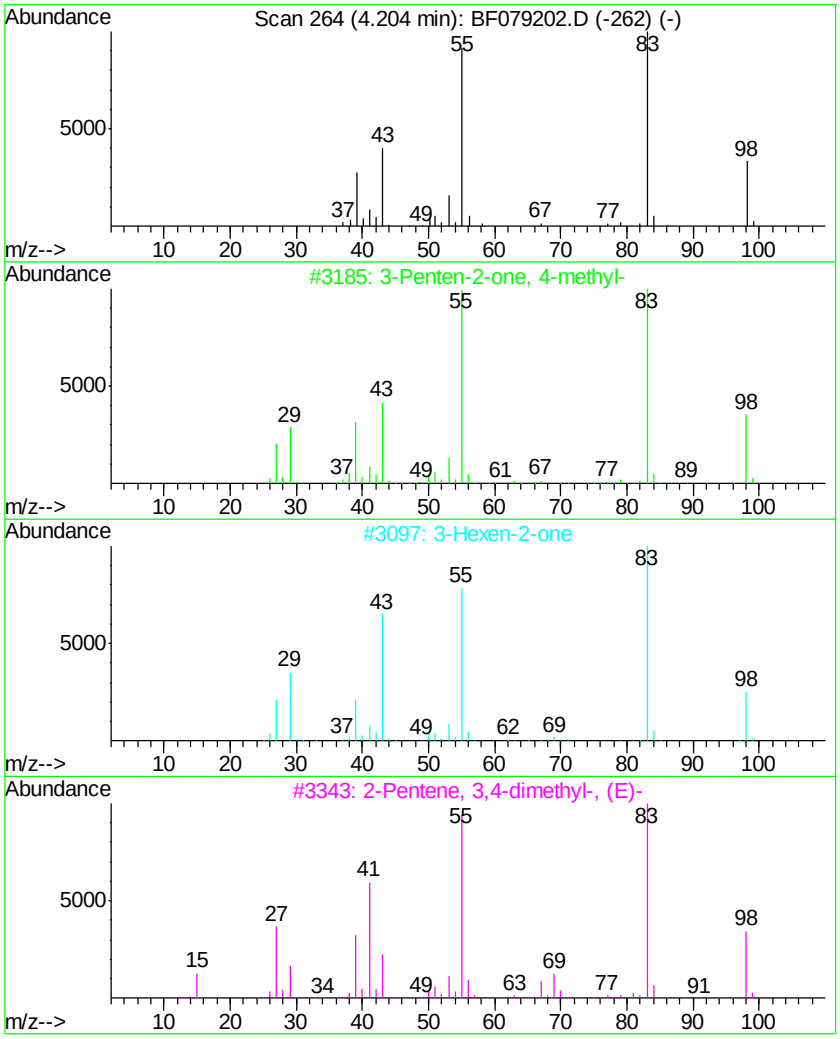
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

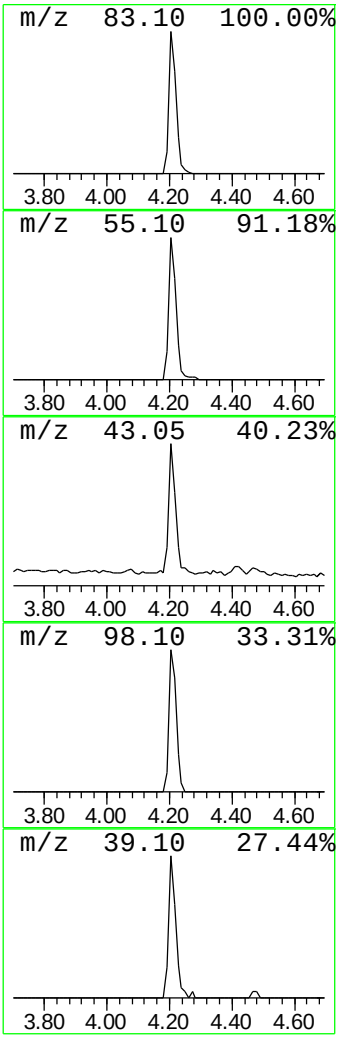
**********

Peak Number 6 3-Penten-2-one, 4-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.20 | 9.30 ng | 148053 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 91 |
| 2 | 3-Hexen-2-one | 98 | C6H10O | 000763-93-9 | 87 |
| 3 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 86 |
| 4 | 2-Pentene, 2,4-dimethyl- | 98 | C7H14 | 000625-65-0 | 83 |
| 5 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

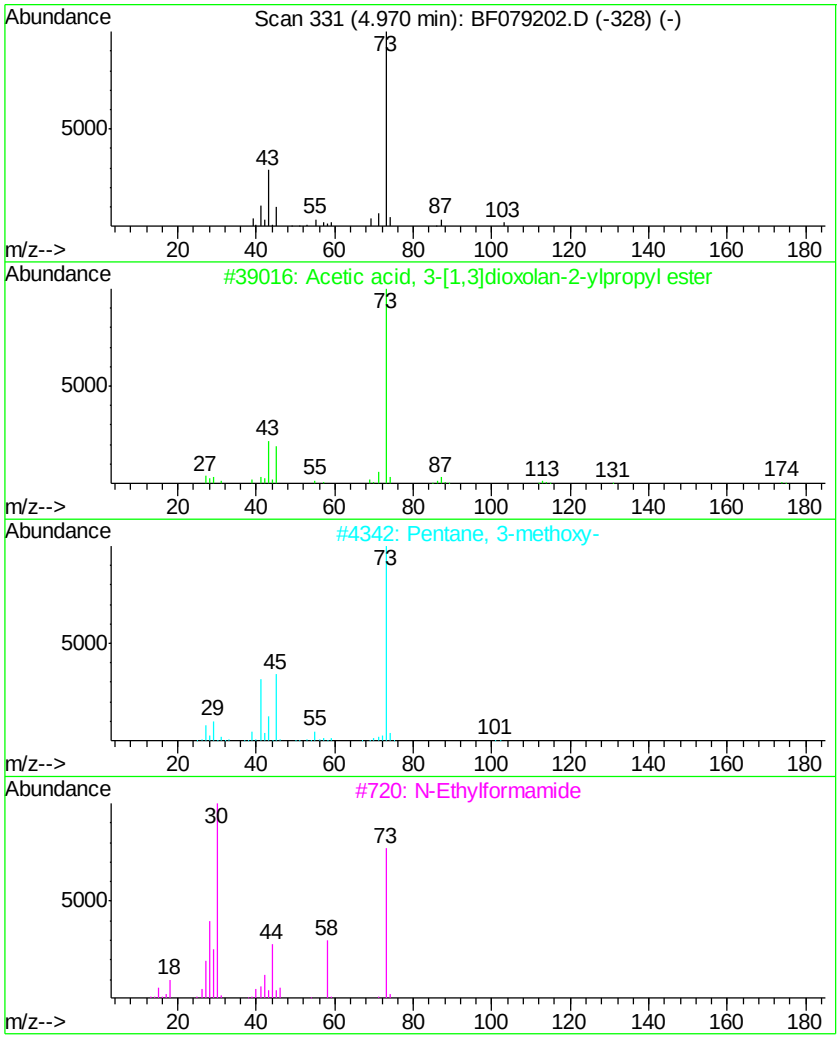
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

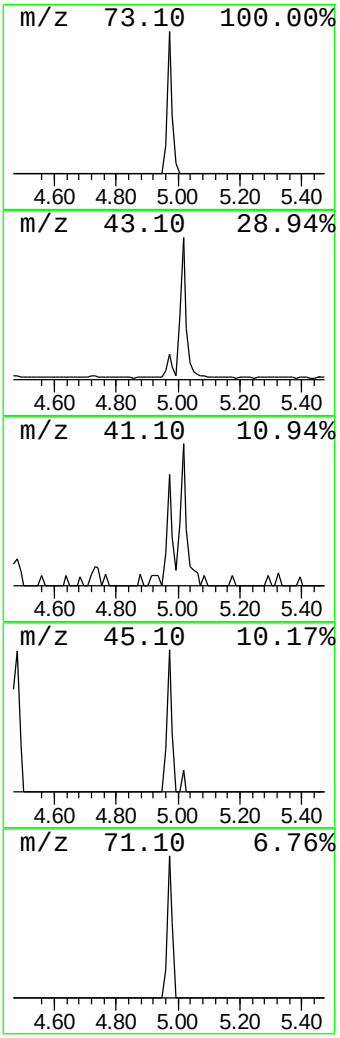
**********

Peak Number 7 unknown4.97 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.97 | 4.14 ng | 65809 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, 3-[1,3]dioxolan-2-y... | 174 | C8H14O4 | 1000186-02-3 | 42 |
| 2 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 25 |
| 3 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 9 |
| 5 | 1,3-Dioxolane, 2-(3-bromo-5,5,5-... | 352 | C10H16BrCl3O2 | 1000115-31-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

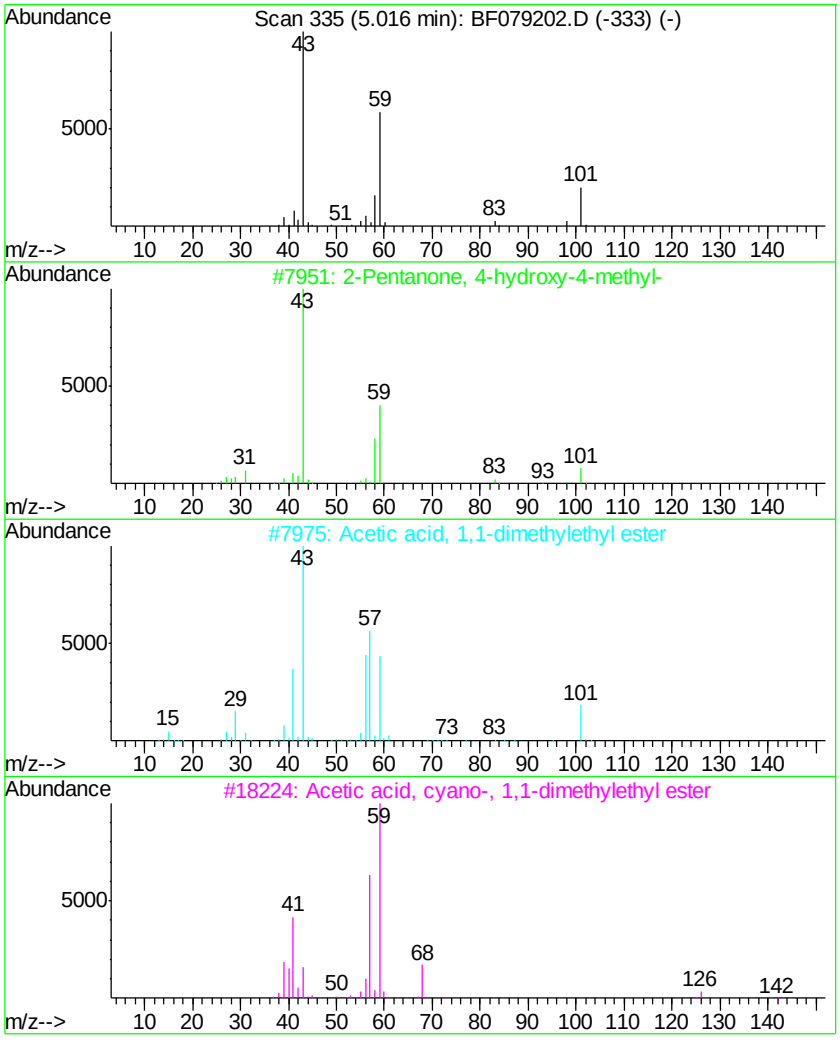
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

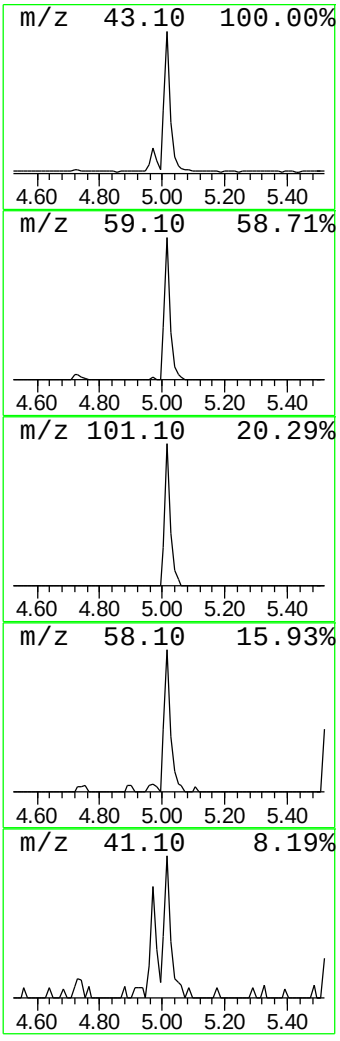
**********

Peak Number 8 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.02 | 9.49 ng | 151028 | 1,4-Dichlorobenzene-d4 | 7.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 4 | Propane, 2-ethoxy-2-methyl- | 102 | C6H14O | 000637-92-3 | 9 |
| 5 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

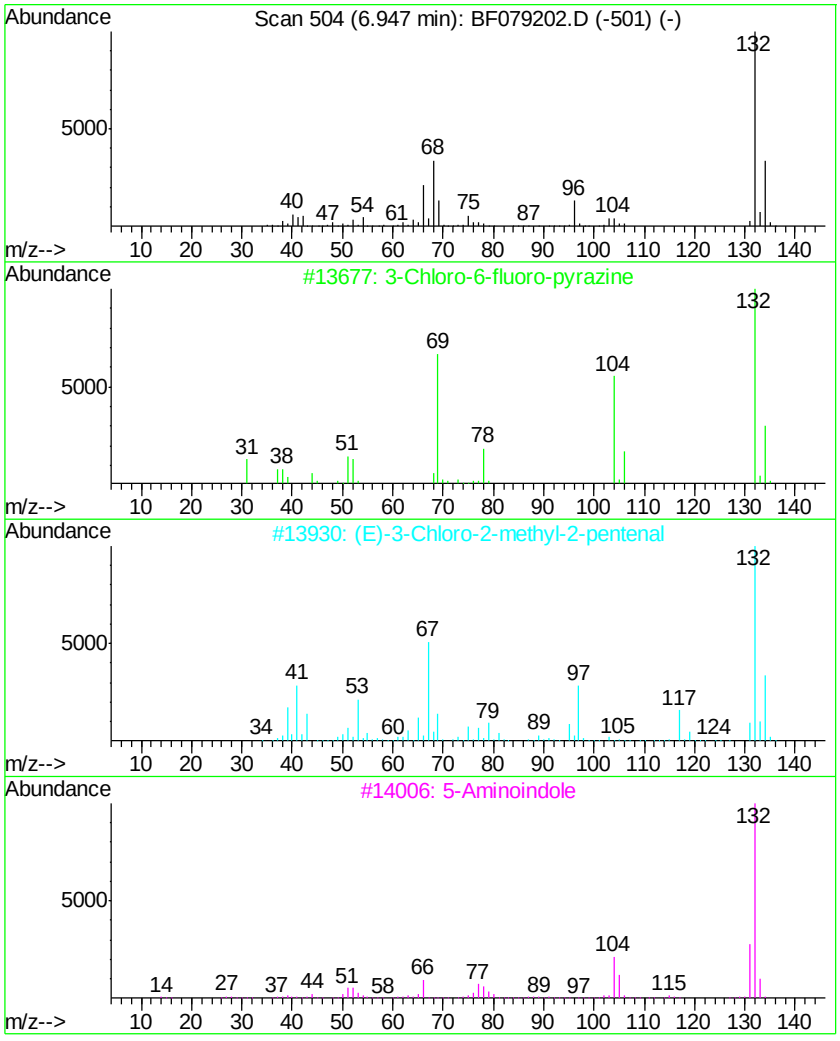
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

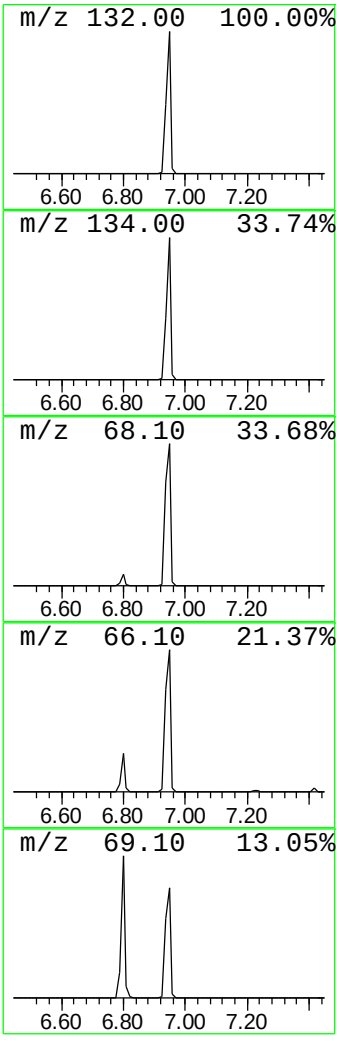
**********

Peak Number 9 unknown6.95 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.95 | 75.56 ng | 1202440 | 1,4-Dichlorobenzene-d4 | 7.23 |

| 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 | 17 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

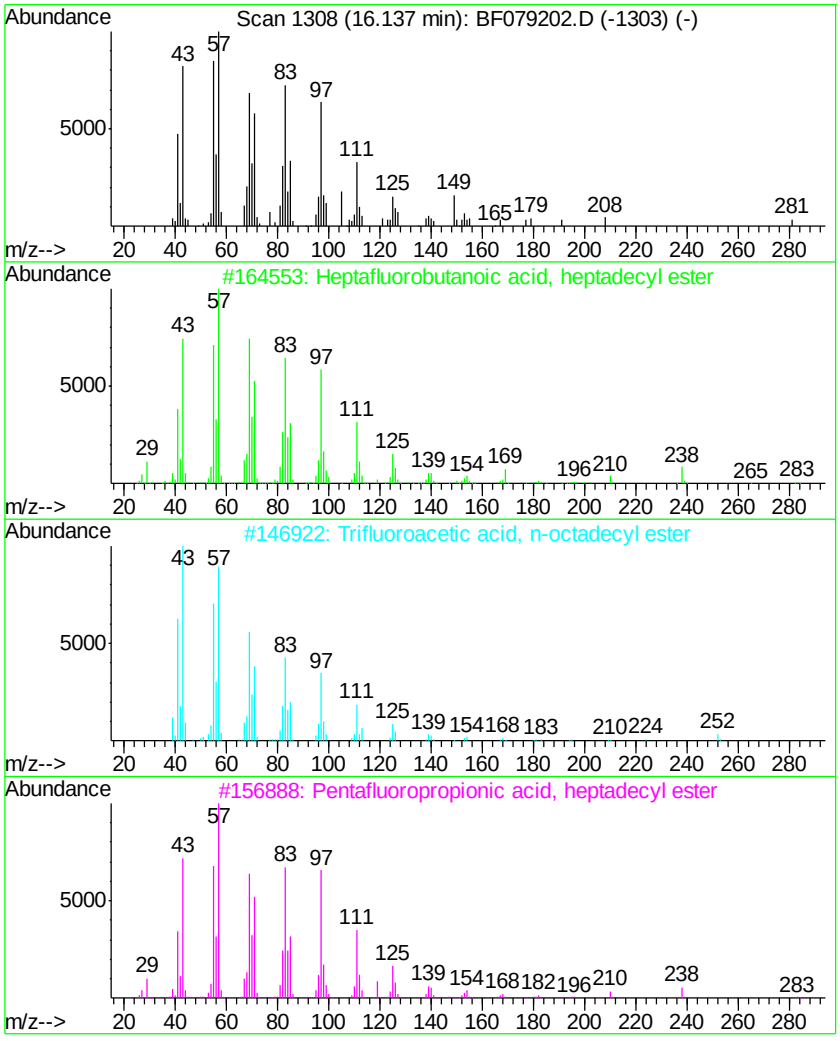
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

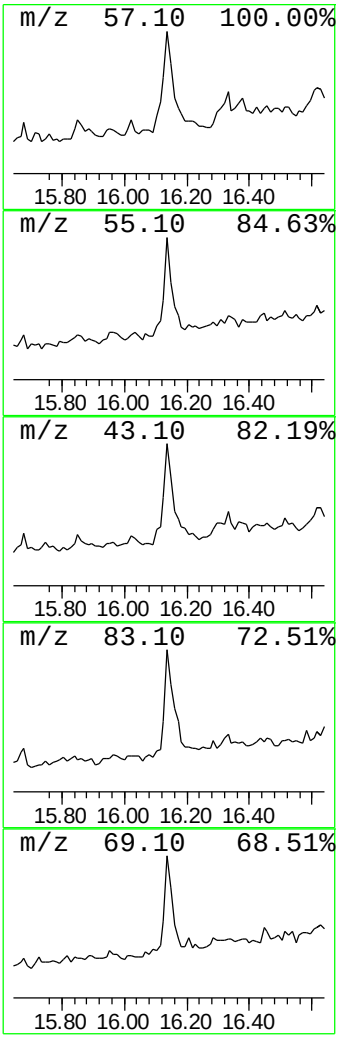
**********

Peak Number 11 Heptafluorobutanoic acid, h... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.14 | 8.15 ng | 271141 | Chrysene-d12 | 16.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 93 |
| 2 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 90 |
| 3 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 90 |
| 4 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 87 |
| 5 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051315\
Data File : BF079202.D
Acq On : 13 May 2015 19:17
Operator : TP/IZ
Sample : G2177-08
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PS-24(0-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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 |
| Amylene Hydrate | 1.29 | 5.8 | ng | 92702 | 1 | 7.23 | 318269 | 20.0 |
| Propane, 2,2-dime... | 1.38 | 105.1 | ng | 1672980 | 1 | 7.23 | 318269 | 20.0 |
| unknown1.55 | 1.55 | 3.8 | ng | 60614 | 1 | 7.23 | 318269 | 20.0 |
| 3-Penten-2-one, 4... | 4.20 | 9.3 | ng | 148053 | 1 | 7.23 | 318269 | 20.0 |
| unknown4.97 | 4.97 | 4.1 | ng | 65809 | 1 | 7.23 | 318269 | 20.0 |
| 2-Pentanone, 4-hy... | 5.02 | 9.5 | ng | 151028 | 1 | 7.23 | 318269 | 20.0 |
| unknown6.95 | 6.95 | 75.6 | ng | 1202440 | 1 | 7.23 | 318269 | 20.0 |
| Heptafluorobutano... | 16.14 | 8.2 | ng | 271141 | 5 | 16.26 | 665038 | 20.0 |