LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF071417\
Data File : BF096802.D
Acq On : 15 Jul 2017 5:30
Operator : SJ/JU
Sample : I4159-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** NORTH-DIESEL-SIDEWALL

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-BF071317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.810 | 475 | 480 | 494 | rVB | 326346 | 530472 | 18.00% | 2.396% |
| 2 | 5.246 | 548 | 554 | 557 | rBV | 2664062 | 2947604 | 100.00% | 13.316% |
| 3 | 6.281 | 724 | 730 | 733 | rBV | 2478618 | 2872042 | 97.44% | 12.975% |
| 4 | 6.398 | 745 | 750 | 754 | rBV | 2760326 | 2917060 | 98.96% | 13.178% |
| 5 | 6.628 | 785 | 789 | 792 | rBV | 752283 | 629406 | 21.35% | 2.843% |
| 6 | 6.787 | 811 | 816 | 819 | rBV | 2223732 | 2067776 | 70.15% | 9.341% |
| 7 | 7.192 | 879 | 885 | 888 | rBV | 1899334 | 1790597 | 60.75% | 8.089% |
| 8 | 7.904 | 1003 | 1006 | 1010 | rBV | 805373 | 744176 | 25.25% | 3.362% |
| 9 | 8.986 | 1185 | 1190 | 1193 | rBV | 2456473 | 2154172 | 73.08% | 9.732% |
| 10 | 9.381 | 1253 | 1257 | 1260 | rBV | 295101 | 233956 | 7.94% | 1.057% |
| 11 | 9.657 | 1300 | 1304 | 1308 | rBV | 699662 | 583718 | 19.80% | 2.637% |
| 12 | 10.104 | 1377 | 1380 | 1383 | rVB | 52653 | 41545 | 1.41% | 0.188% |
| 13 | 10.445 | 1433 | 1438 | 1441 | rBV | 1190254 | 1140494 | 38.69% | 5.152% |
| 14 | 10.575 | 1458 | 1460 | 1468 | rBV | 52009 | 57832 | 1.96% | 0.261% |
| 15 | 11.133 | 1551 | 1555 | 1558 | rVB | 595420 | 482171 | 16.36% | 2.178% |
| 16 | 12.722 | 1820 | 1825 | 1828 | rBV | 1818029 | 1697062 | 57.57% | 7.667% |
| 17 | 13.627 | 1975 | 1979 | 1985 | rVB | 231285 | 265203 | 9.00% | 1.198% |
| 18 | 13.763 | 1998 | 2002 | 2005 | rBV | 616199 | 552888 | 18.76% | 2.498% |
| 19 | 14.521 | 2128 | 2131 | 2134 | rBV | 82319 | 74146 | 2.52% | 0.335% |
| 20 | 15.145 | 2233 | 2237 | 2240 | rVB | 303820 | 353148 | 11.98% | 1.595% |

Sum of corrected areas: 22135468

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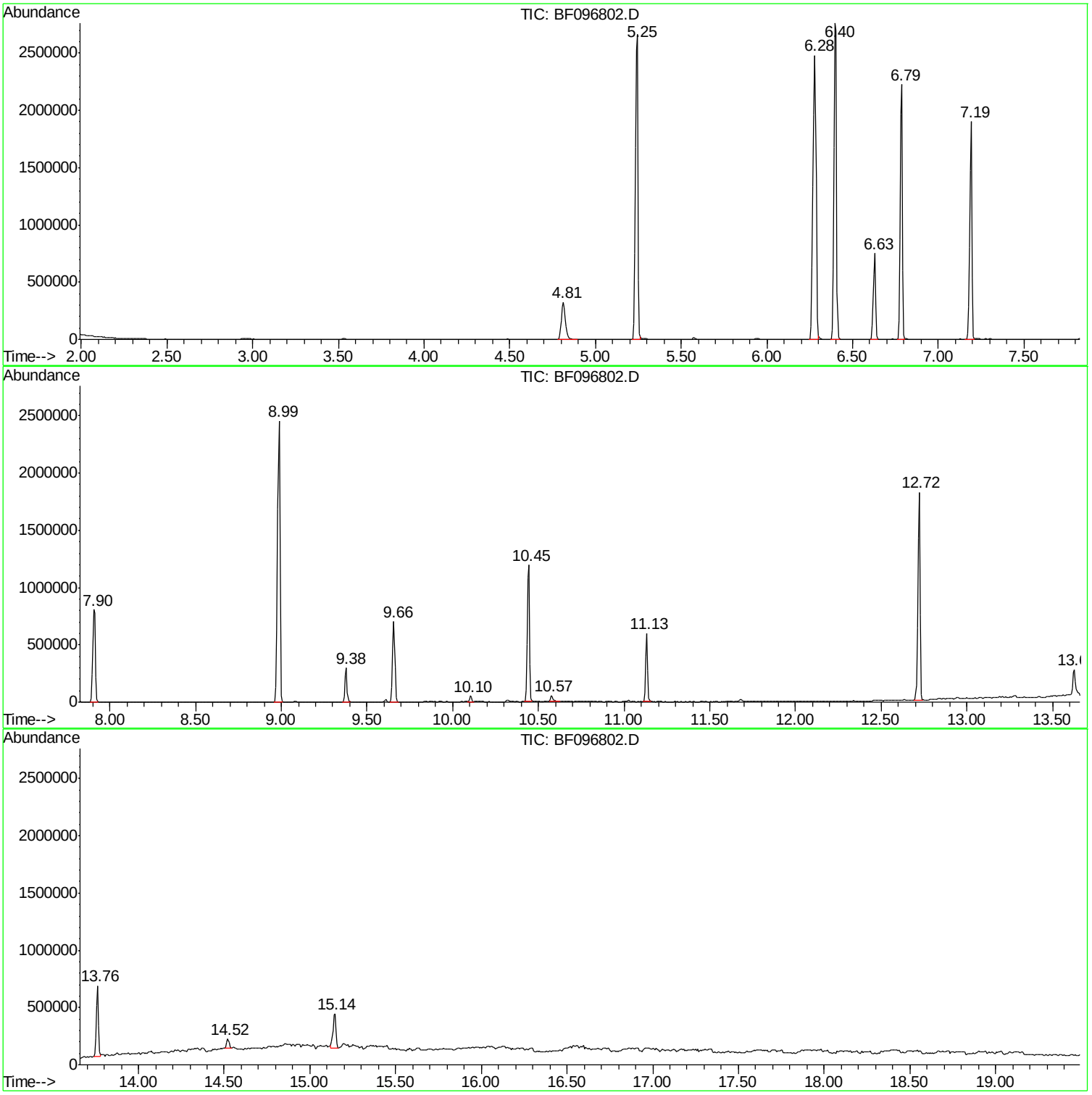
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
NORTH-DIESEL-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

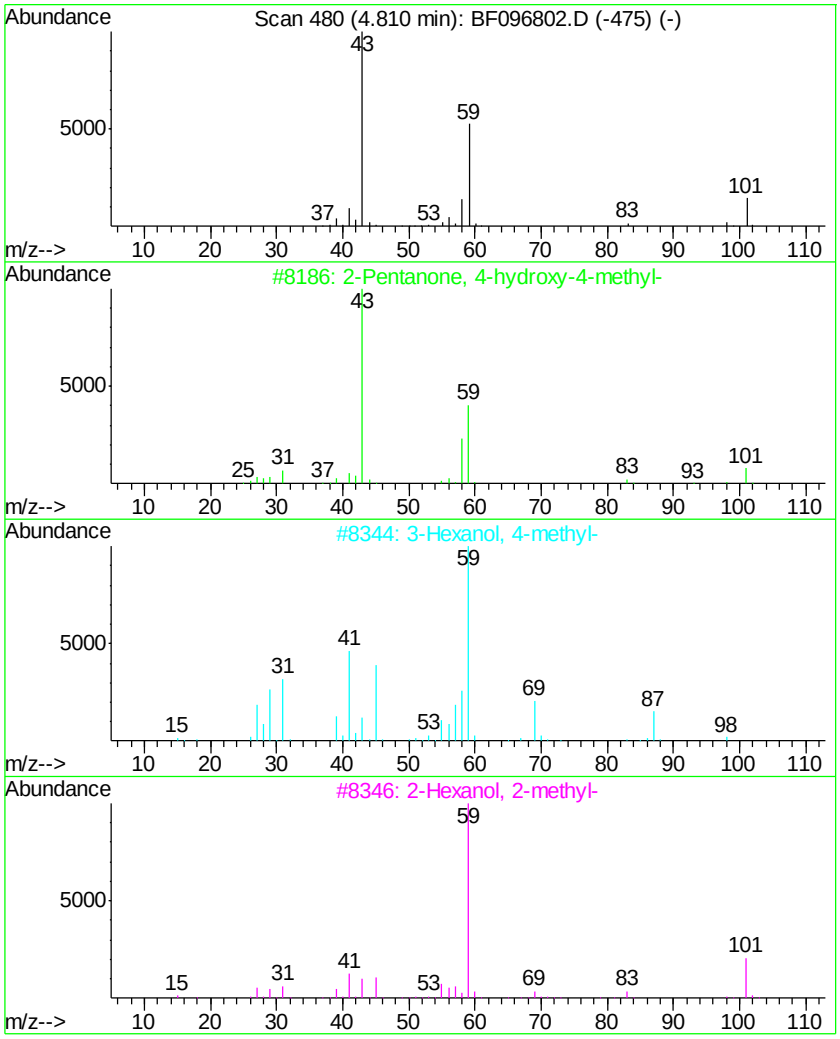
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

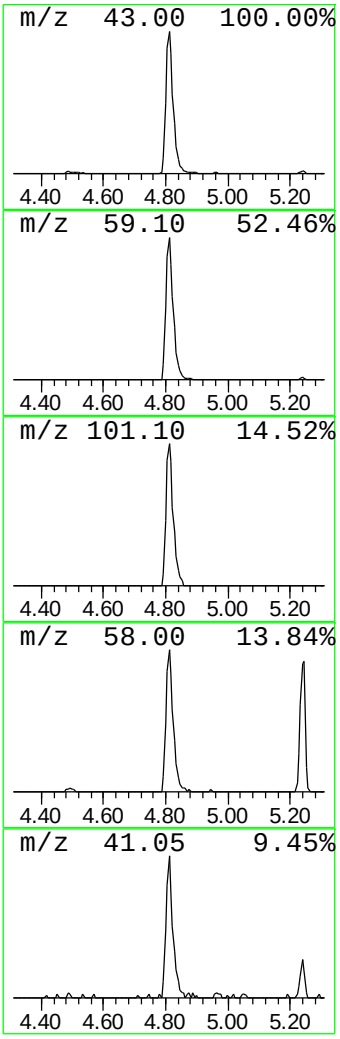
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.81 | 16.86 ng | 530472 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF071417\
Data File : BF096802.D
Acq On : 15 Jul 2017 5:30
Operator : SJ/JU
Sample : I4159-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
NORTH-DIESEL-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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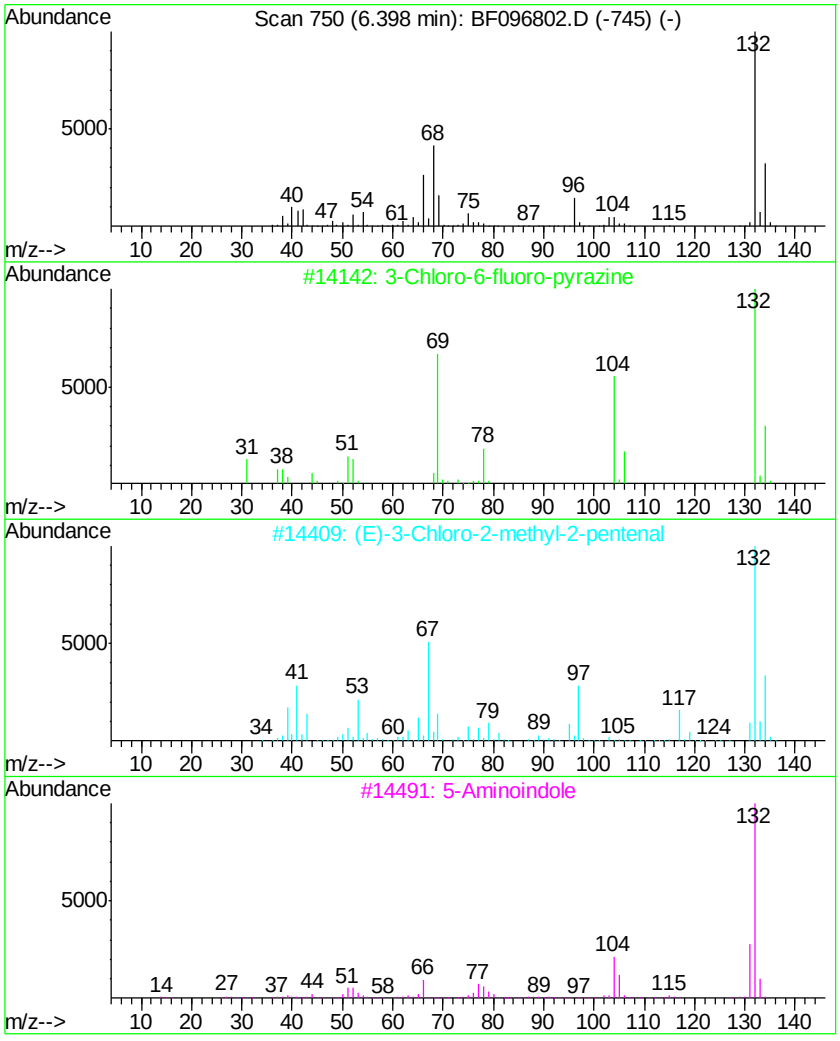
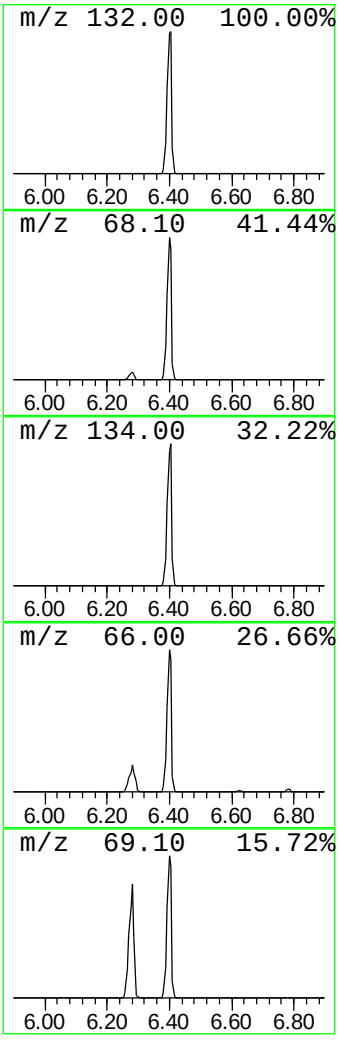
Peak Number 2 unknown6.40 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.40 | 92.69 ng | 2917060 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



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Data File : BF096802.D
Acq On : 15 Jul 2017 5:30
Operator : SJ/JU
Sample : I4159-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** NORTH-DIESEL-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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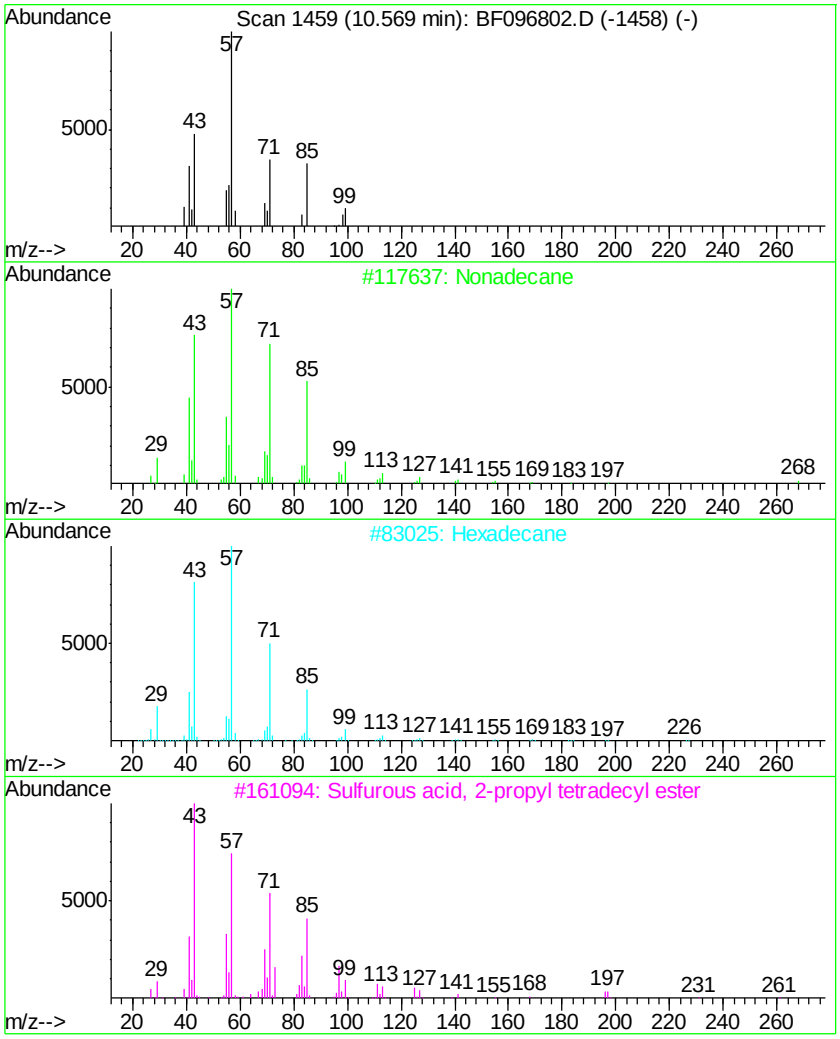
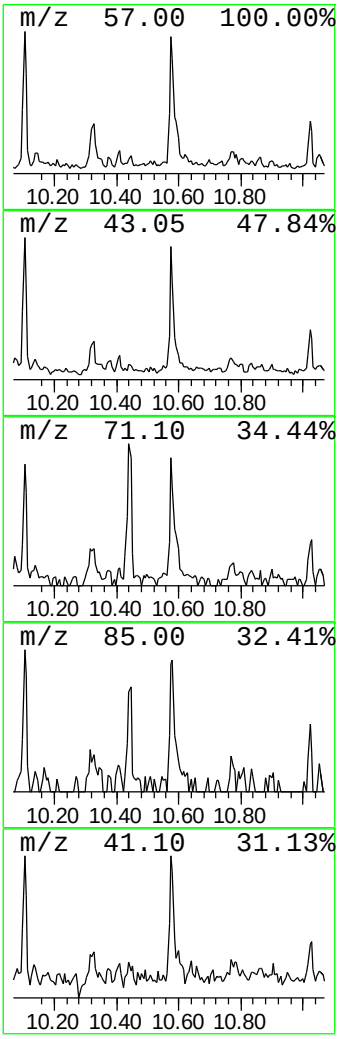
Peak Number 4 Nonadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 2.40 ng | 57832 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 80 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 3 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 64 |
| 4 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 64 |
| 5 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 59 |



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Operator : SJ/JU
Sample : I4159-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
NORTH-DIESEL-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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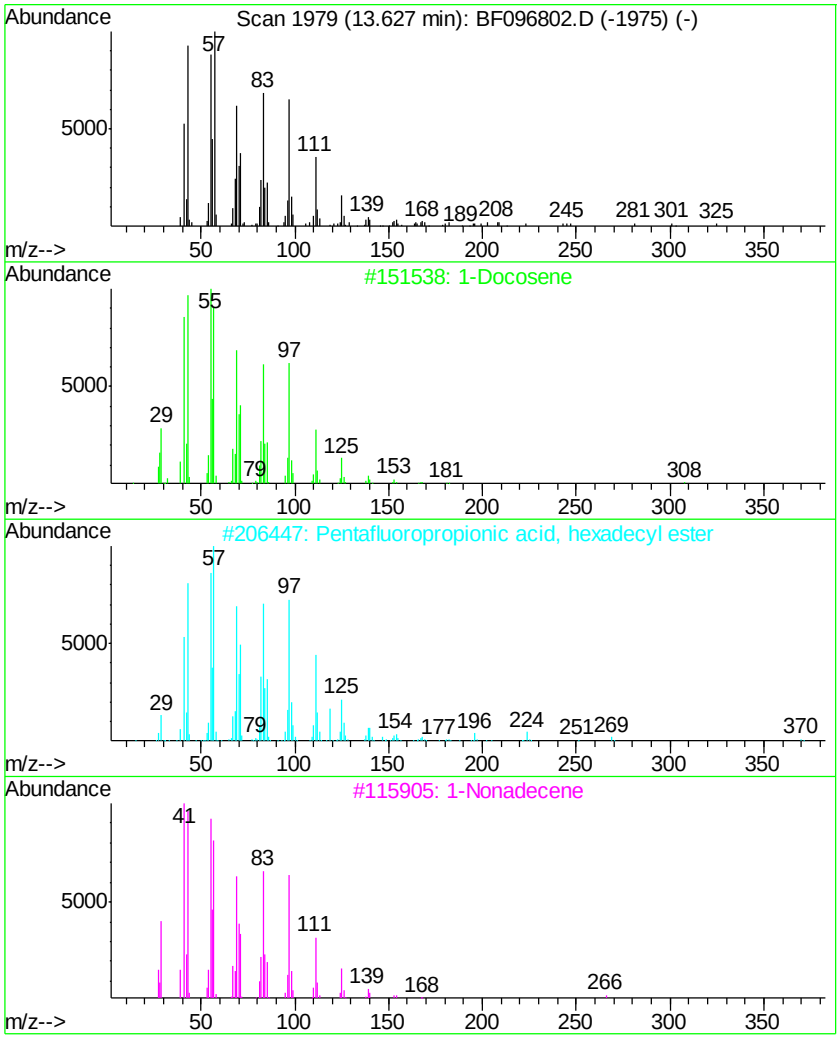
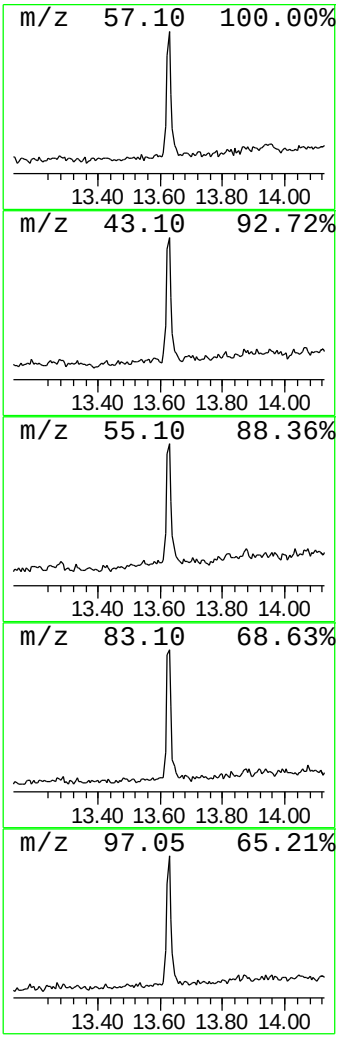
Peak Number 5 1-Docosene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.63 | 9.59 ng | 265203 | Chrysene-d12 | 13.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 94 |
| 2 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 94 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 91 |
| 4 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 91 |
| 5 | 10-Heneicosene (c,t) | 294 | C21H42 | 095008-11-0 | 91 |



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Sample : I4159-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
NORTH-DIESEL-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

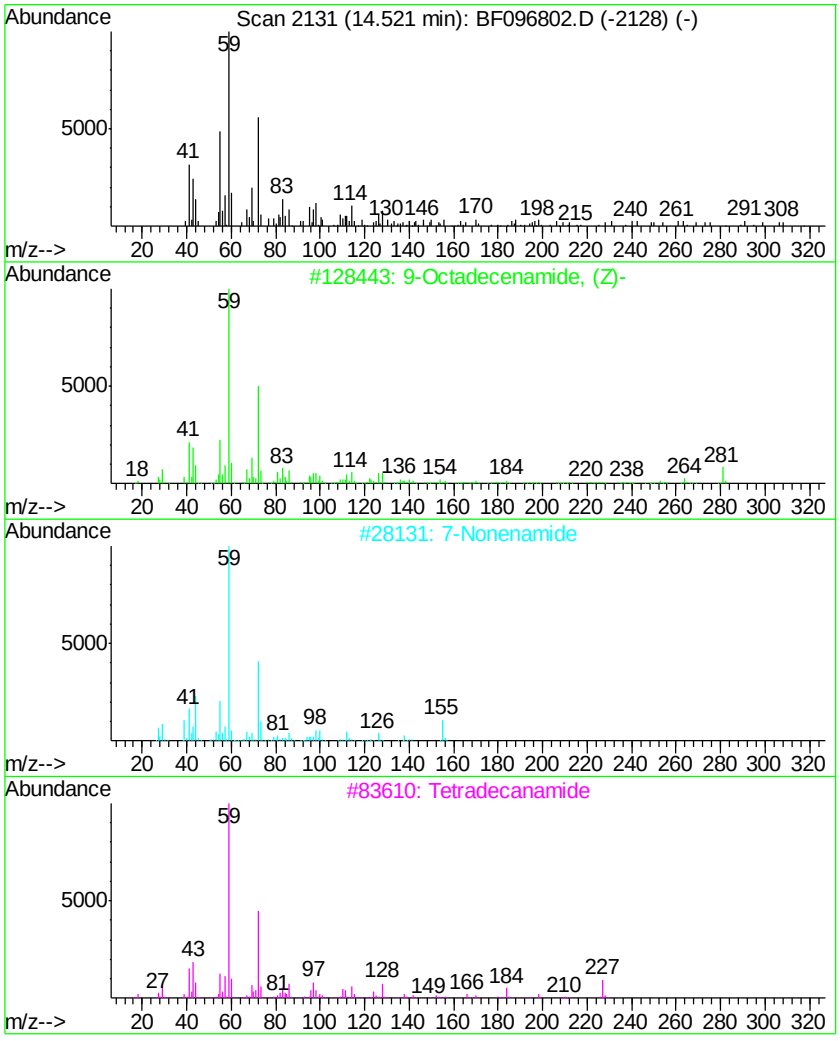
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

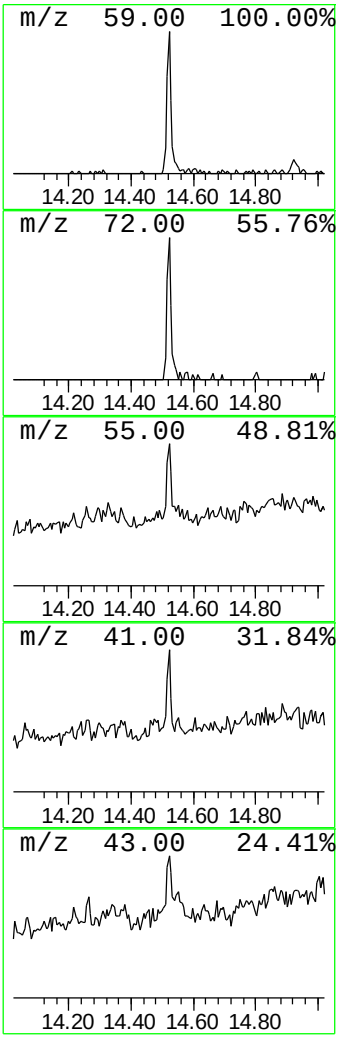
**********

Peak Number 6 9-Octadecenamide, (Z)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.52 | 4.20 ng | 74146 | Perylene-d12 | 15.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 78 |
| 2 | 7-Nonenamide | 155 | C9H17NO | 090949-53-4 | 72 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 72 |
| 4 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 59 |
| 5 | Hexadecanamide | 255 | C16H33NO | 000629-54-9 | 53 |



Tentatively Identified Compound (LSC) summary

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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.81 | 16.9 | ng | 530472 | 1 | 6.63 | 629406 | 20.0 |
| unknown6.40 | 6.40 | 92.7 | ng | 2917060 | 1 | 6.63 | 629406 | 20.0 |
| Nonadecane | 10.57 | 2.4 | ng | 57832 | 4 | 11.13 | 482171 | 20.0 |
| 1-Docosene | 13.63 | 9.6 | ng | 265203 | 5 | 13.76 | 552888 | 20.0 |
| 9-Octadecenamide,... | 14.52 | 4.2 | ng | 74146 | 6 | 15.14 | 353148 | 20.0 |