LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\
Data File : BF097097.D
Acq On : 27 Jul 2017 1:24
Operator : SJ/JU
Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

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-BF072517.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 | 4.646 | 465 | 469 | 487 | rVB | 173522 | 275637 | 10.93% | 1.351% |
| 2 | 5.098 | 541 | 546 | 560 | rBV | 2316833 | 2506866 | 99.37% | 12.289% |
| 3 | 6.163 | 721 | 727 | 741 | rBV | 2112462 | 2522786 | 100.00% | 12.367% |
| 4 | 6.269 | 741 | 745 | 748 | rBV | 2481530 | 2280313 | 90.39% | 11.179% |
| 5 | 6.493 | 780 | 783 | 793 | rBV | 718227 | 655779 | 25.99% | 3.215% |
| 6 | 6.651 | 806 | 810 | 819 | rBV | 2088385 | 1890809 | 74.95% | 9.269% |
| 7 | 7.063 | 875 | 880 | 883 | rBV | 1566210 | 1443377 | 57.21% | 7.076% |
| 8 | 7.781 | 998 | 1002 | 1005 | rBV | 1004895 | 872712 | 34.59% | 4.278% |
| 9 | 8.857 | 1180 | 1185 | 1188 | rBV | 2459599 | 2220978 | 88.04% | 10.888% |
| 10 | 9.257 | 1249 | 1253 | 1258 | rBV | 264310 | 218307 | 8.65% | 1.070% |
| 11 | 9.522 | 1294 | 1298 | 1302 | rBV | 832315 | 762096 | 30.21% | 3.736% |
| 12 | 9.981 | 1373 | 1376 | 1379 | rVB | 46624 | 35620 | 1.41% | 0.175% |
| 13 | 10.310 | 1428 | 1432 | 1440 | rVB | 1126894 | 1026244 | 40.68% | 5.031% |
| 14 | 10.451 | 1452 | 1456 | 1463 | rBV | 63398 | 69794 | 2.77% | 0.342% |
| 15 | 10.998 | 1545 | 1549 | 1553 | rBV | 700343 | 571575 | 22.66% | 2.802% |
| 16 | 11.551 | 1641 | 1643 | 1646 | rBV | 43702 | 43413 | 1.72% | 0.213% |
| 17 | 12.586 | 1814 | 1819 | 1822 | rBV | 1691240 | 1599972 | 63.42% | 7.843% |
| 18 | 13.498 | 1970 | 1974 | 1980 | rVB | 95783 | 117537 | 4.66% | 0.576% |
| 19 | 13.621 | 1991 | 1995 | 2003 | rBV | 594394 | 589703 | 23.38% | 2.891% |
| 20 | 14.421 | 2127 | 2131 | 2134 | rBV6 | 31096 | 58806 | 2.33% | 0.288% |
| 21 | 14.974 | 2221 | 2225 | 2231 | rVB | 387914 | 439847 | 17.43% | 2.156% |
| 22 | 16.668 | 2511 | 2513 | 2517 | rBV5 | 18478 | 29781 | 1.18% | 0.146% |
| 23 | 16.845 | 2540 | 2543 | 2548 | rBV7 | 26269 | 53554 | 2.12% | 0.263% |
| 24 | 17.580 | 2665 | 2668 | 2671 | rBV4 | 20783 | 32771 | 1.30% | 0.161% |
| 25 | 18.656 | 2846 | 2851 | 2855 | rBV8 | 19213 | 41404 | 1.64% | 0.203% |
| 26 | 18.833 | 2877 | 2881 | 2882 | rBV4 | 26089 | 39147 | 1.55% | 0.192% |

Sum of corrected areas: 20398828

LSC Report - Integrated Chromatogram

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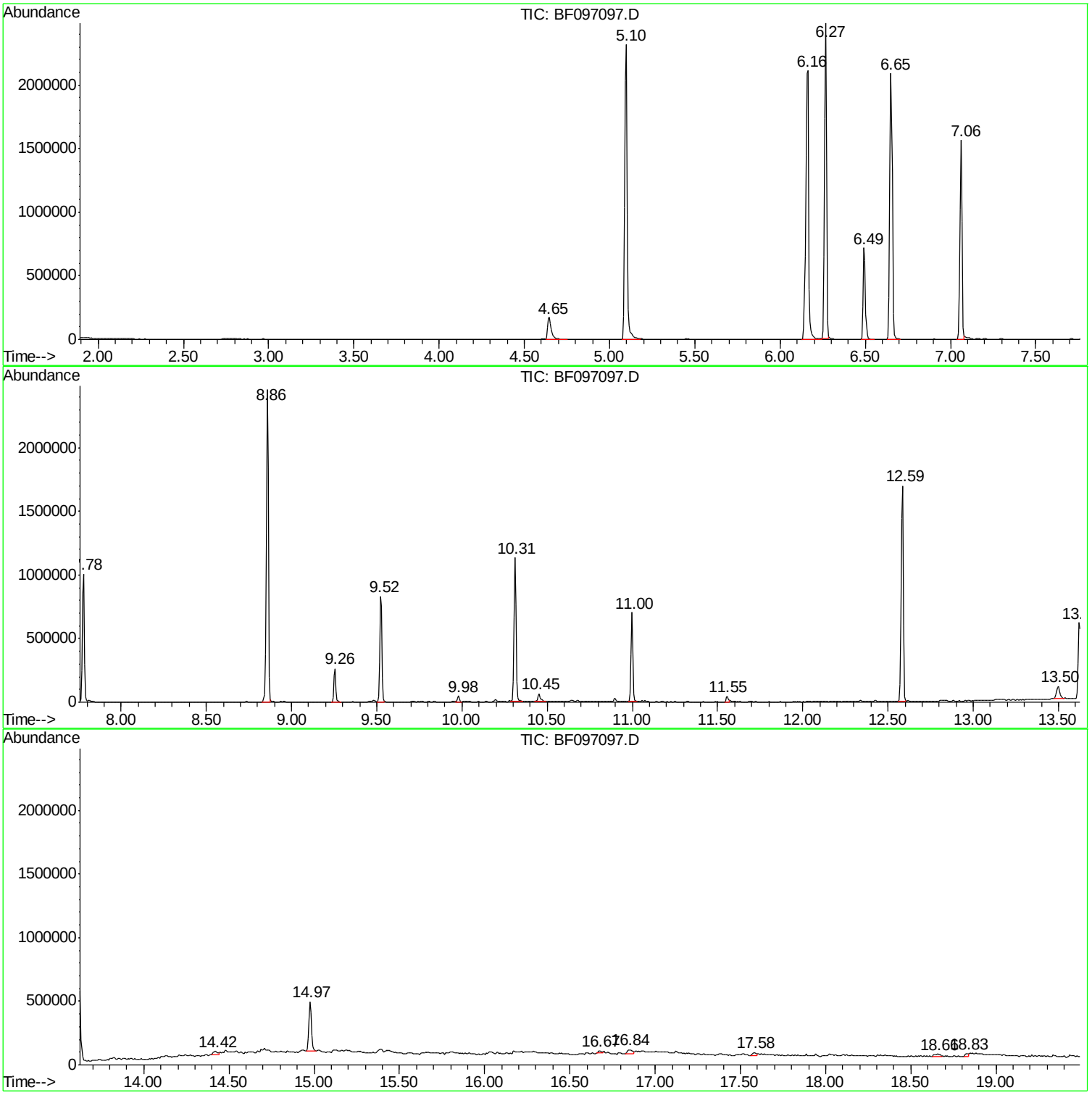
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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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Data File : BF097097.D
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Operator : SJ/JU
Sample : I4359-03
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

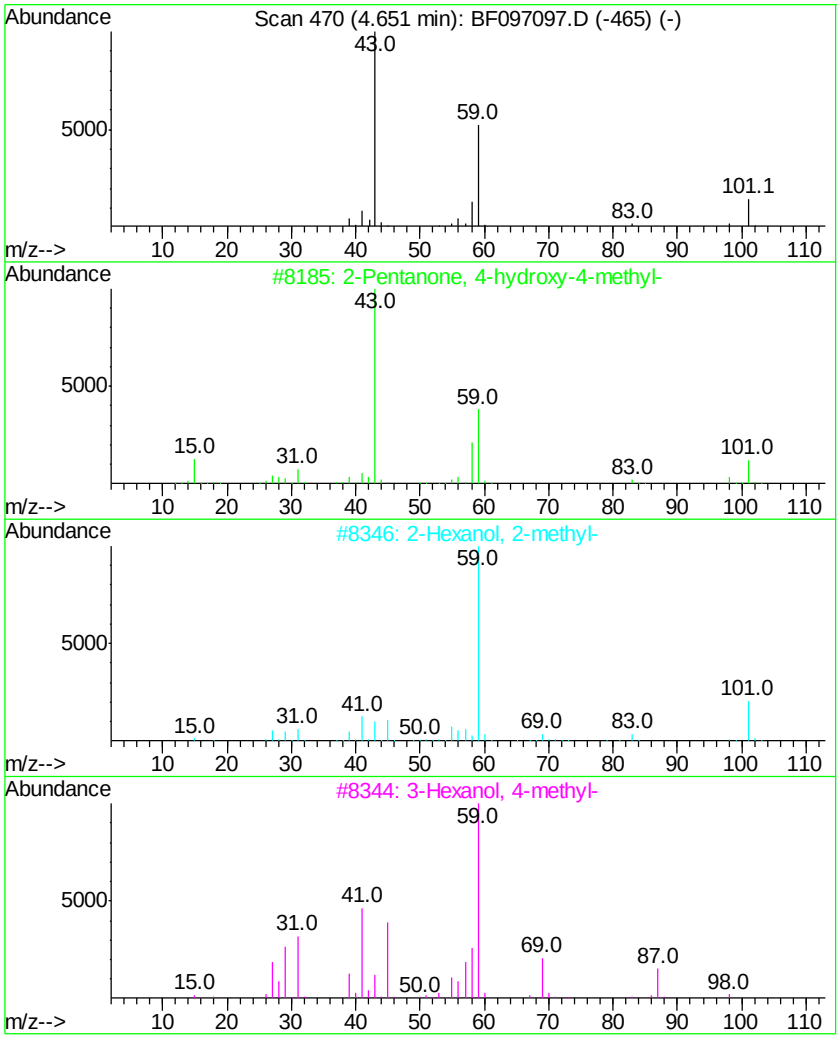
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

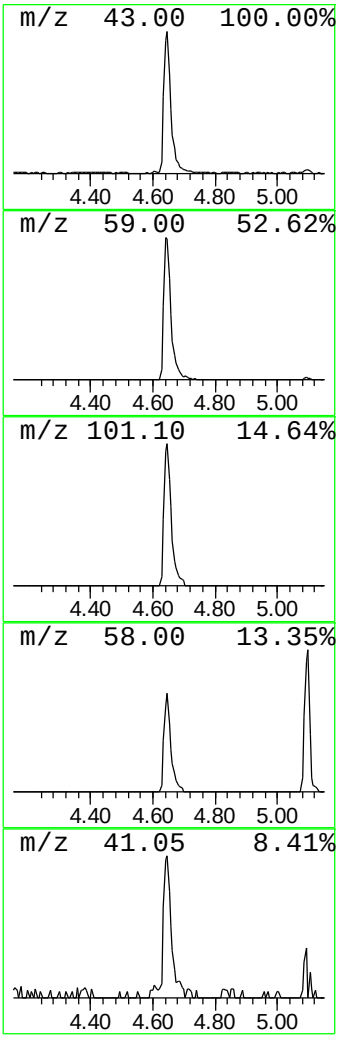
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.65 | 8.41 ng | 275637 | 1,4-Dichlorobenzene-d4 | 6.49 |

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



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Acq On : 27 Jul 2017 1:24
Operator : SJ/JU
Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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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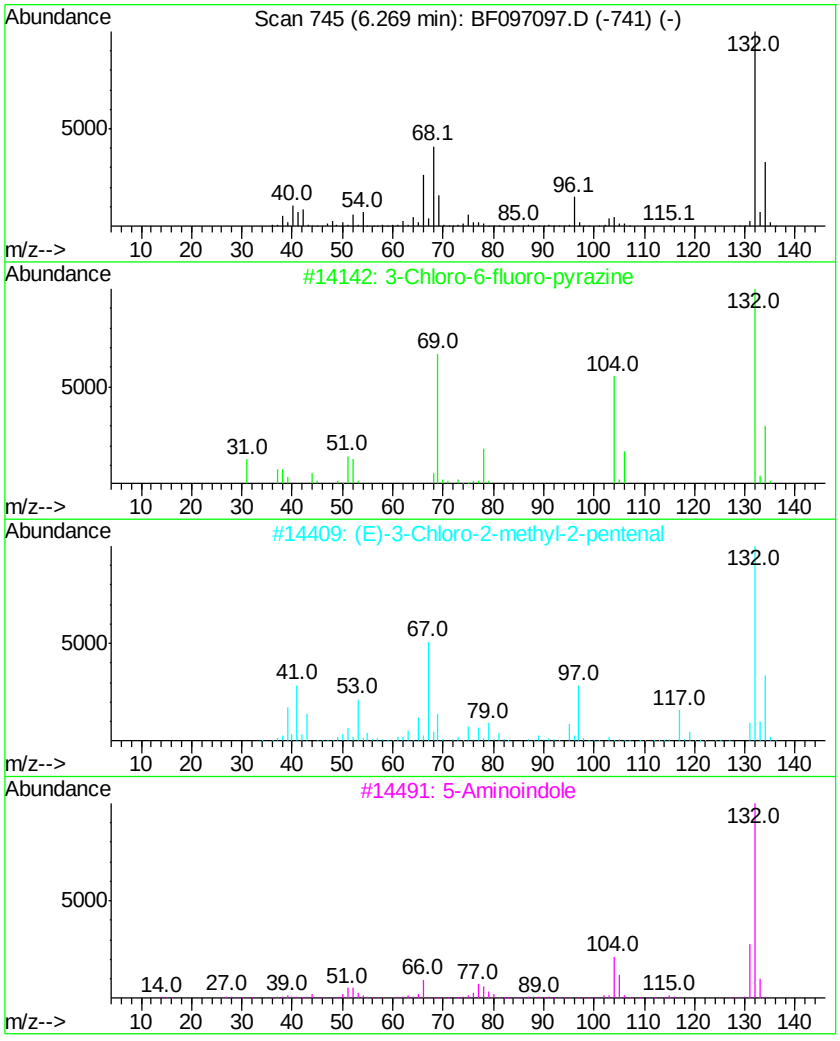
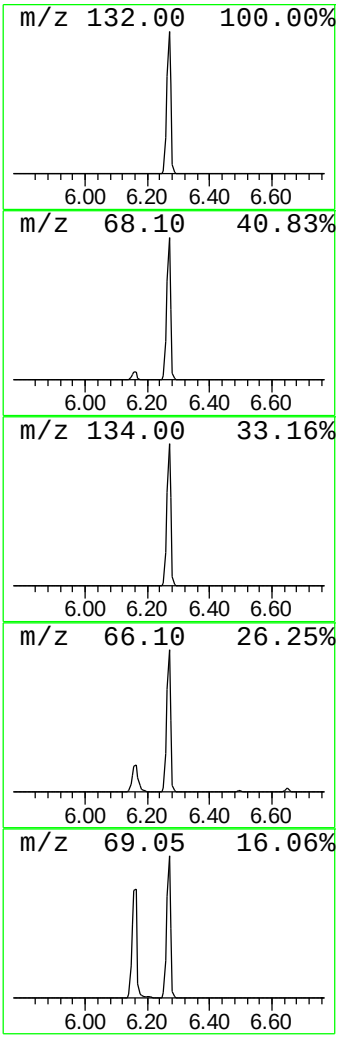
Peak Number 2 unknown6.27 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.27 | 69.55 ng | 2280310 | 1,4-Dichlorobenzene-d4 | 6.49 |

| 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 | 27 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\
Data File : BF097097.D
Acq On : 27 Jul 2017 1:24
Operator : SJ/JU
Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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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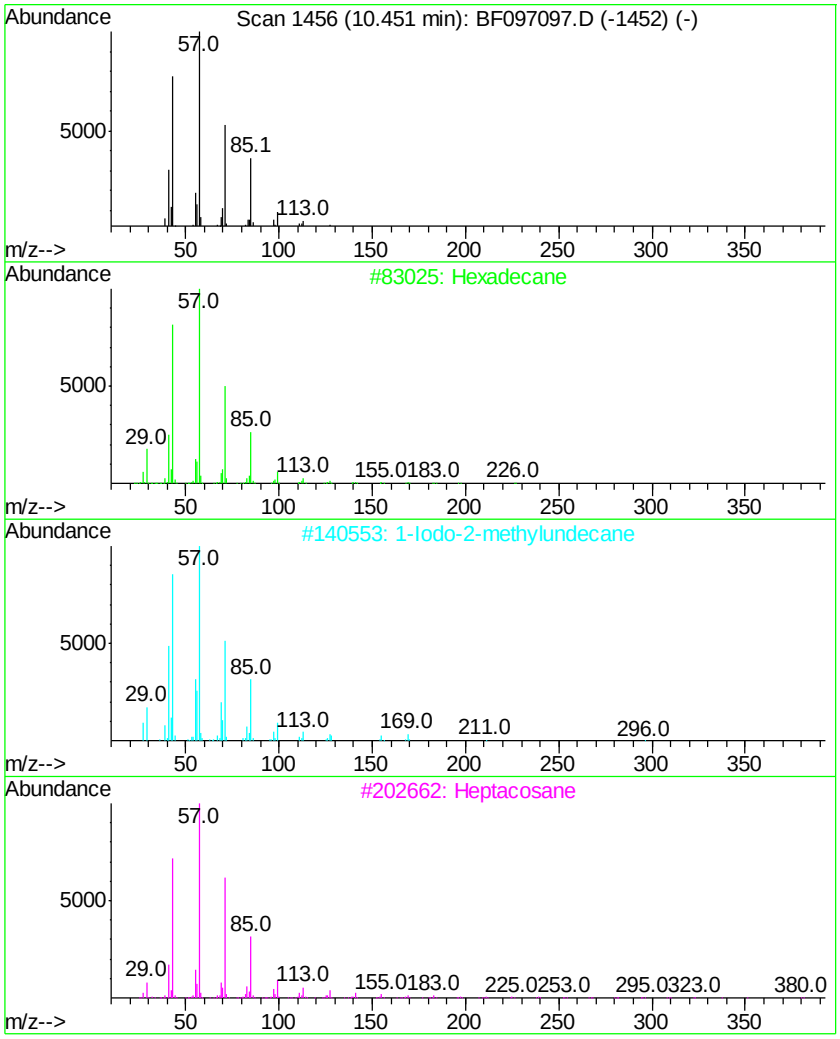
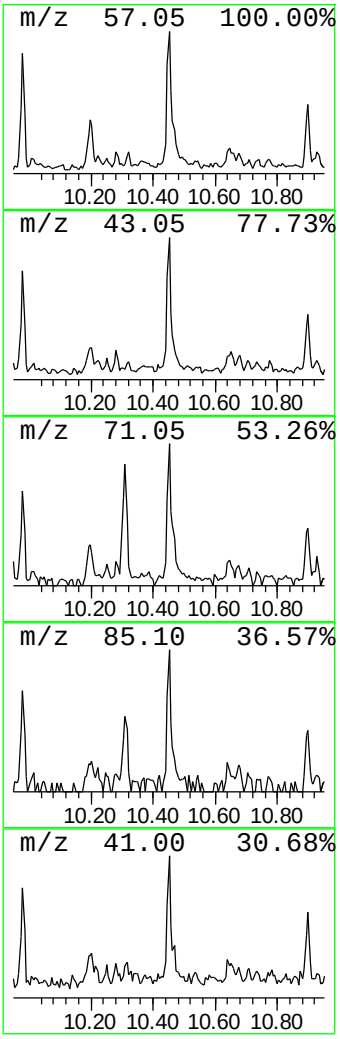
Peak Number 4 Hexadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.45 | 2.44 ng | 69794 | Phenanthrene-d10 | 11.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 2 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 86 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 78 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 72 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\
Data File : BF097097.D
Acq On : 27 Jul 2017 1:24
Operator : SJ/JU
Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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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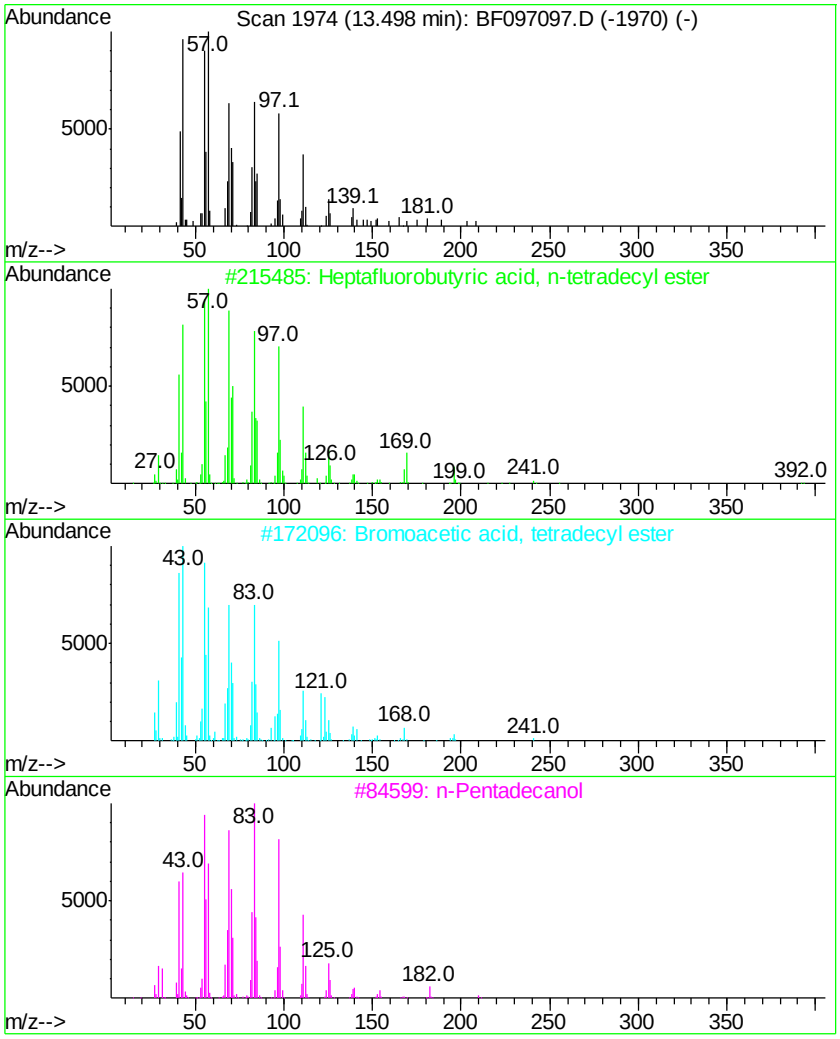
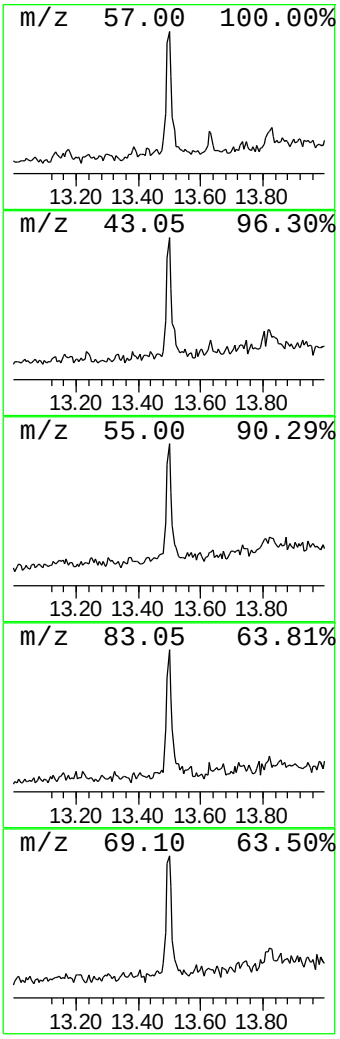
Peak Number 5 Heptafluorobutyric acid, n-... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.50 | 3.99 ng | 117537 | Chrysene-d12 | 13.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 91 |
| 2 | Bromoacetic acid, tetradecyl ester | 334 | C16H31BrO2 | 018992-01-3 | 90 |
| 3 | n-Pentadecanol | 228 | C15H32O | 000629-76-5 | 90 |
| 4 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 90 |
| 5 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 90 |



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Operator : SJ/JU
Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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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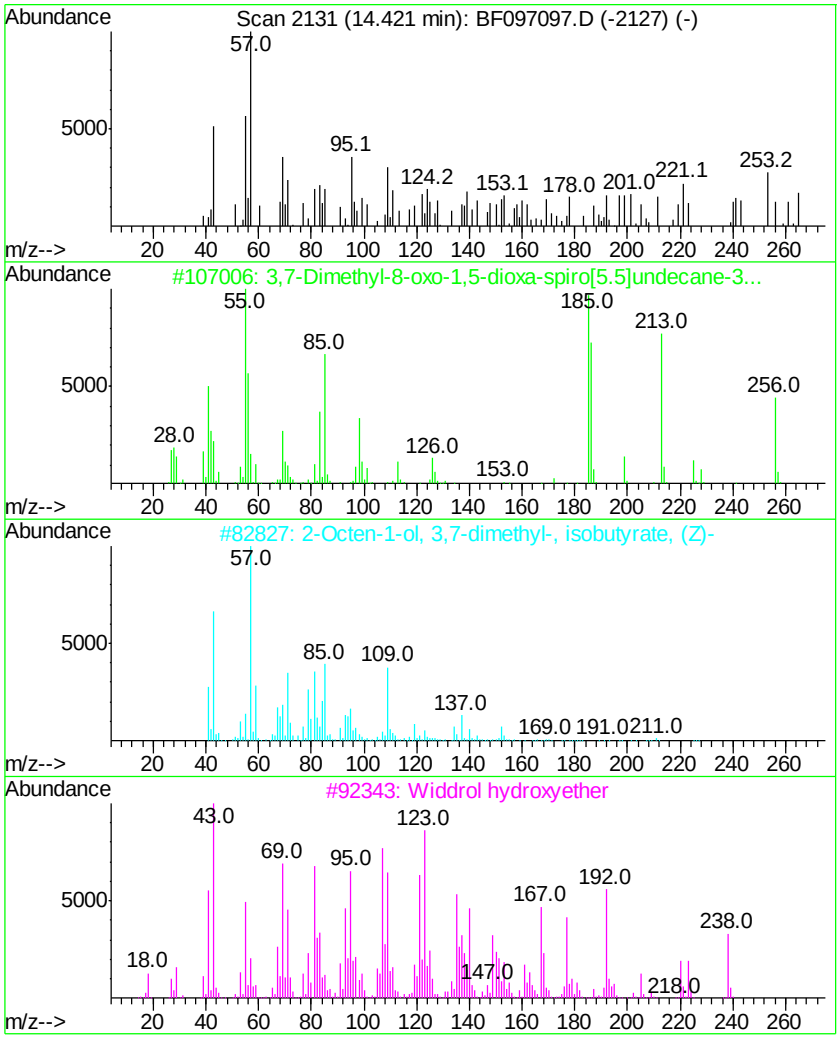
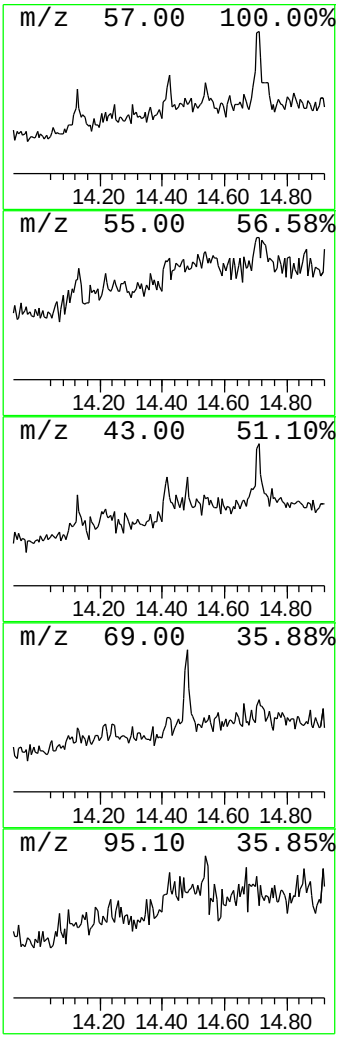
Peak Number 6 unknown14.42 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.42 | 2.67 ng | 58806 | Perylene-d12 | 14.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,7-Dimethyl-8-oxo-1,5-dioxa-spi... | 256 | C13H20O5 | 1000193-79-8 | 10 |
| 2 | 2-Octen-1-ol, 3,7-dimethyl-, iso... | 226 | C14H26O2 | 1000132-45-6 | 10 |
| 3 | Widdrol hydroxyether | 238 | C15H26O2 | 029620-91-5 | 10 |
| 4 | p-Nitrophenyl nonyl ether | 265 | C15H23NO3 | 086702-46-7 | 10 |
| 5 | 2,5,5,8a-Tetramethyl-4-methylene... | 238 | C14H22O3 | 1000192-73-0 | 9 |



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Sample : I4359-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

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**ClientSampleId :** CEMETERY-2-(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
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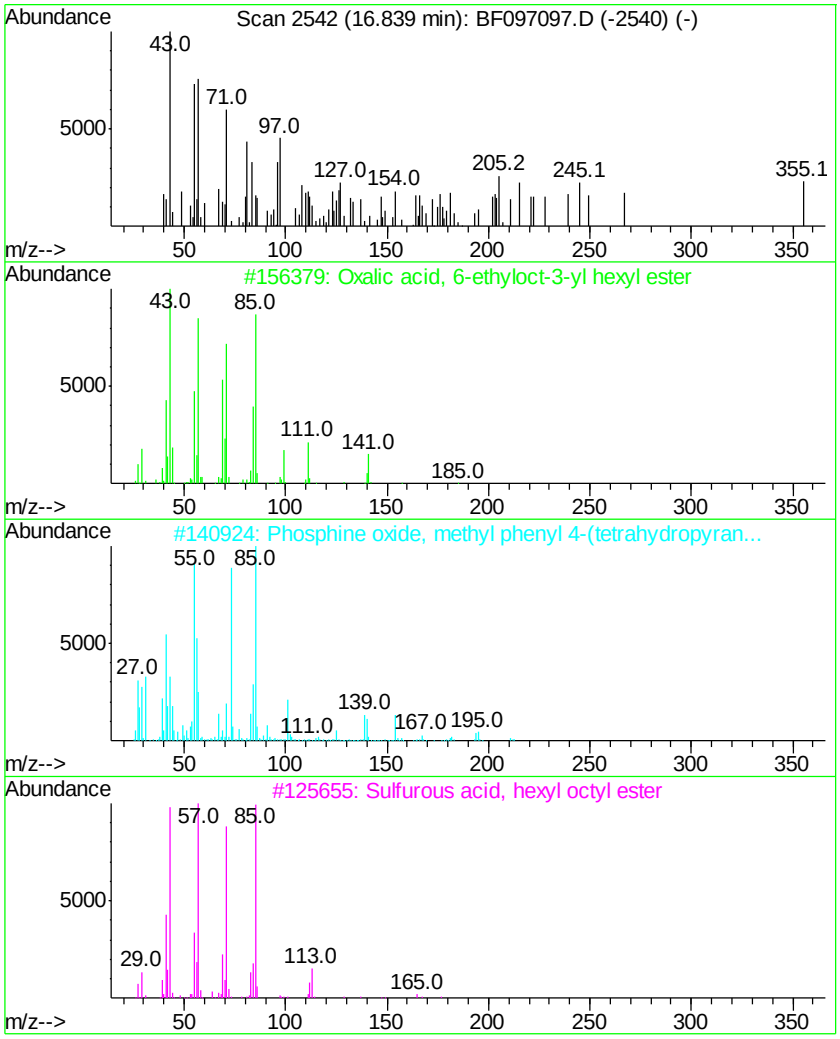
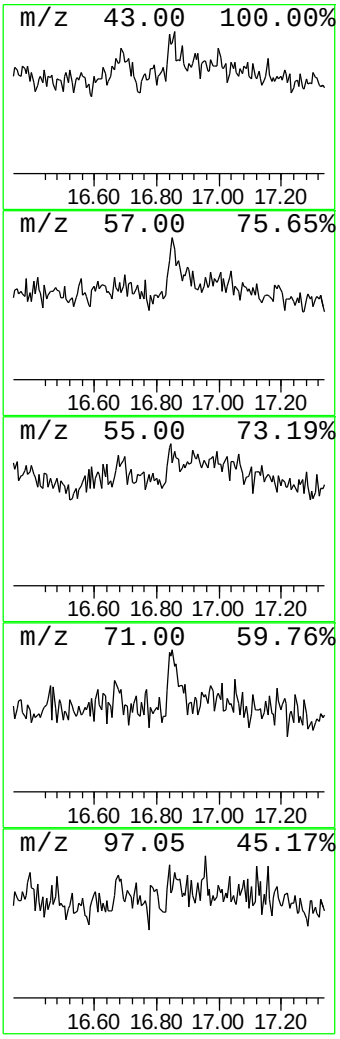
Peak Number 7 unknown16.84 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.84 | 2.44 ng | 53554 | Perylene-d12 | 14.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, 6-ethyloct-3-yl hex... | 314 | C18H34O4 | 1000309-34-4 | 10 |
| 2 | Phosphine oxide, methyl phenyl 4... | 296 | C16H25O3P | 1000195-93-9 | 10 |
| 3 | Sulfurous acid, hexyl octyl ester | 278 | C14H30O3S | 1000309-13-0 | 10 |
| 4 | 4,6-Dioxoheptanoic acid | 158 | C7H10O4 | 051568-18-4 | 10 |
| 5 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 10 |



Tentatively Identified Compound (LSC) summary

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Misc :
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**Instrument :** BNA_F
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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... | 4.65 | 8.4 | ng | 275637 | 1 | 6.49 | 655779 | 20.0 |
| unknown6.27 | 6.27 | 69.5 | ng | 2280310 | 1 | 6.49 | 655779 | 20.0 |
| Hexadecane | 10.45 | 2.4 | ng | 69794 | 4 | 11.00 | 571575 | 20.0 |
| Heptafluorobutyri... | 13.50 | 4.0 | ng | 117537 | 5 | 13.62 | 589703 | 20.0 |
| unknown14.42 | 14.42 | 2.7 | ng | 58806 | 6 | 14.97 | 439847 | 20.0 |
| unknown16.84 | 16.84 | 2.4 | ng | 53554 | 6 | 14.97 | 439847 | 20.0 |