LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

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:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.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 | 3.191 | 11 | 17 | 24 | rVB | 99588 | 211355 | 1.10% | 0.129% |
| 2 | 7.879 | 805 | 815 | 821 | rBV | 355368 | 593014 | 3.10% | 0.363% |
| 3 | 8.015 | 829 | 838 | 844 | rVB | 131545 | 252957 | 1.32% | 0.155% |
| 4 | 8.320 | 884 | 890 | 900 | rVB3 | 166555 | 393146 | 2.06% | 0.241% |
| 5 | 10.224 | 1208 | 1214 | 1221 | rVB2 | 167259 | 311786 | 1.63% | 0.191% |
| 6 | 10.335 | 1227 | 1233 | 1248 | rBV | 301021 | 605189 | 3.16% | 0.370% |
| 7 | 10.817 | 1306 | 1315 | 1321 | rBV | 186271 | 364246 | 1.90% | 0.223% |
| 8 | 11.199 | 1368 | 1380 | 1386 | rBV5 | 73266 | 207036 | 1.08% | 0.127% |
| 9 | 11.704 | 1452 | 1466 | 1475 | rBV | 207981 | 613328 | 3.21% | 0.375% |
| 10 | 11.845 | 1484 | 1490 | 1502 | rBV5 | 94731 | 230057 | 1.20% | 0.141% |
| 11 | 12.868 | 1658 | 1664 | 1675 | rBV2 | 152336 | 275571 | 1.44% | 0.169% |
| 12 | 13.156 | 1708 | 1713 | 1722 | rVB4 | 109542 | 256320 | 1.34% | 0.157% |
| 13 | 13.261 | 1725 | 1731 | 1741 | rVB | 197896 | 342824 | 1.79% | 0.210% |
| 14 | 13.449 | 1755 | 1763 | 1767 | rBV6 | 85548 | 217959 | 1.14% | 0.133% |
| 15 | 13.614 | 1784 | 1791 | 1802 | rBV | 1389123 | 2297055 | 12.01% | 1.405% |
| 16 | 13.808 | 1813 | 1824 | 1827 | rBV10 | 66448 | 214120 | 1.12% | 0.131% |
| 17 | 14.284 | 1901 | 1905 | 1911 | rBV | 558157 | 826917 | 4.32% | 0.506% |
| 18 | 14.472 | 1934 | 1937 | 1943 | rVB4 | 226074 | 393431 | 2.06% | 0.241% |
| 19 | 14.554 | 1944 | 1951 | 1955 | rBV4 | 237592 | 569837 | 2.98% | 0.349% |
| 20 | 14.613 | 1957 | 1961 | 1962 | rVV3 | 181513 | 264723 | 1.38% | 0.162% |
| 21 | 14.642 | 1963 | 1966 | 1970 | rVV2 | 417003 | 642744 | 3.36% | 0.393% |
| 22 | 14.689 | 1971 | 1974 | 1978 | rVB | 286479 | 391233 | 2.05% | 0.239% |
| 23 | 15.159 | 2051 | 2054 | 2059 | rBV4 | 195965 | 289626 | 1.51% | 0.177% |
| 24 | 15.283 | 2071 | 2075 | 2080 | rBV | 1053561 | 1646859 | 8.61% | 1.007% |
| 25 | 16.293 | 2242 | 2247 | 2254 | rBV | 3971691 | 6359732 | 33.25% | 3.890% |
| 26 | 16.387 | 2259 | 2263 | 2274 | rVB | 2398414 | 4684841 | 24.49% | 2.866% |
| 27 | 17.216 | 2400 | 2404 | 2408 | rVB | 2131751 | 2980218 | 15.58% | 1.823% |
| 28 | 17.874 | 2512 | 2516 | 2526 | rVB6 | 1162352 | 2928887 | 15.31% | 1.792% |
| 29 | 18.391 | 2598 | 2604 | 2609 | rBV | 6773288 | 11491667 | 60.07% | 7.030% |
| 30 | 19.037 | 2710 | 2714 | 2721 | rBV2 | 2182255 | 3376167 | 17.65% | 2.065% |
| 31 | 19.636 | 2813 | 2816 | 2826 | rVB | 2423773 | 3593142 | 18.78% | 2.198% |
| 32 | 20.053 | 2879 | 2887 | 2895 | rVB | 10682291 | 17710229 | 92.58% | 10.834% |
| 33 | 20.553 | 2968 | 2972 | 2981 | rVB | 2863518 | 3944508 | 20.62% | 2.413% |
| 34 | 21.052 | 3052 | 3057 | 3063 | rVB | 2426122 | 3607164 | 18.86% | 2.207% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

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:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 21.452 | 3116 | 3125 | 3133 | rVB | 10189183 | 19129781 | 100.00% | 11.702% |
| 36 | 21.552 | 3139 | 3142 | 3146 | rBV3 | 548662 | 825539 | 4.32% | 0.505% |
| 37 | 21.986 | 3210 | 3216 | 3234 | rVB | 2686351 | 4849521 | 25.35% | 2.967% |
| 38 | 22.609 | 3315 | 3322 | 3335 | rVB | 1893675 | 3938297 | 20.59% | 2.409% |
| 39 | 22.821 | 3354 | 3358 | 3364 | rVB3 | 313739 | 572455 | 2.99% | 0.350% |
| 40 | 23.150 | 3400 | 3414 | 3429 | rBV | 6803788 | 18770487 | 98.12% | 11.483% |
| 41 | 23.579 | 3484 | 3487 | 3498 | rVB6 | 277436 | 610223 | 3.19% | 0.373% |
| 42 | 23.908 | 3534 | 3543 | 3563 | rVB | 1767412 | 4565219 | 23.86% | 2.793% |
| 43 | 24.830 | 3689 | 3700 | 3718 | rVB3 | 1134499 | 4413179 | 23.07% | 2.700% |
| 44 | 25.659 | 3820 | 3841 | 3860 | rBV | 3964819 | 16640015 | 86.98% | 10.179% |
| 45 | 26.851 | 4031 | 4044 | 4065 | rVB3 | 1017375 | 4558465 | 23.83% | 2.789% |
| 46 | 29.683 | 4494 | 4526 | 4541 | rBV2 | 1698467 | 11509087 | 60.16% | 7.040% |

Sum of corrected areas: 163470156

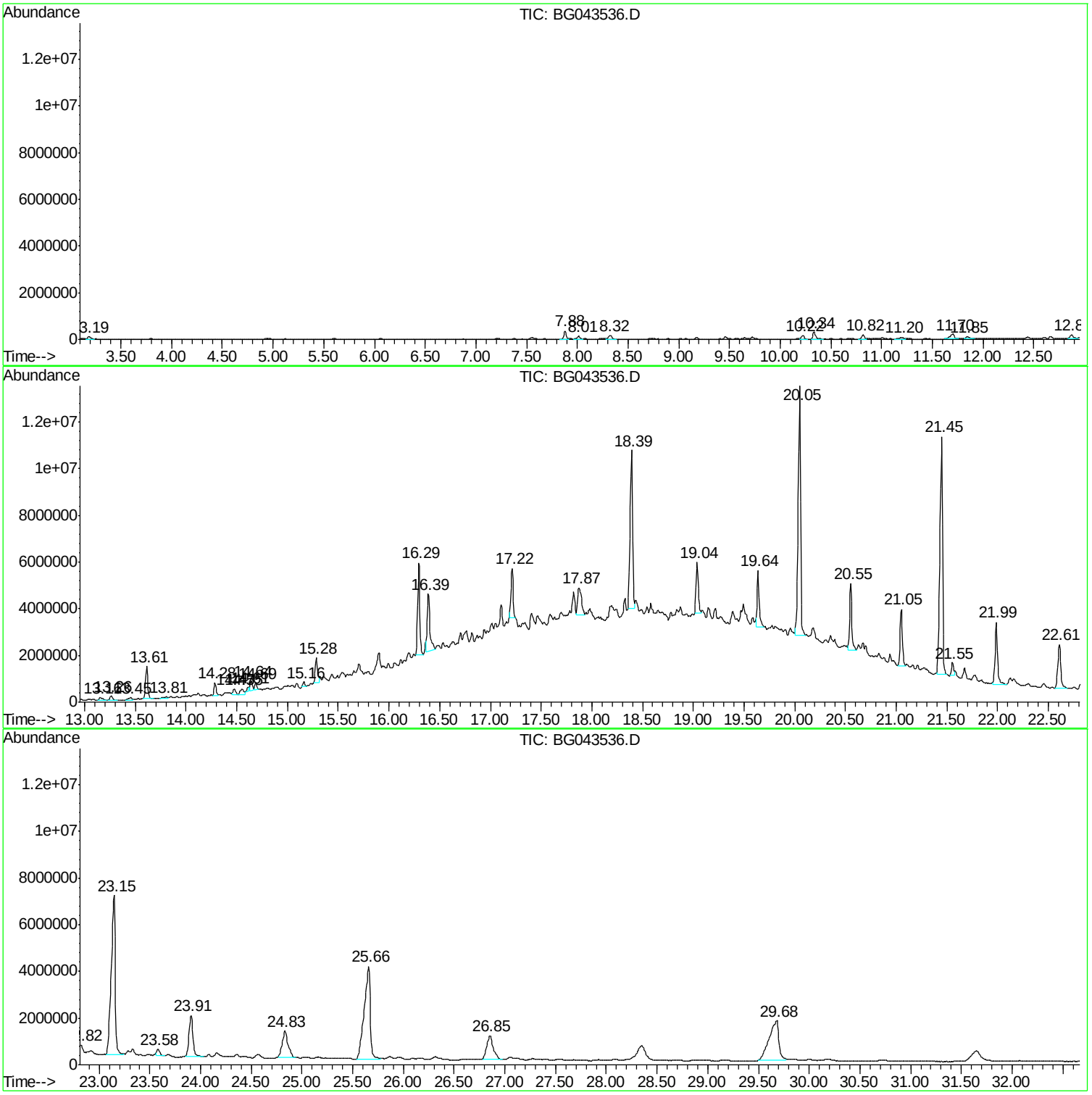
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

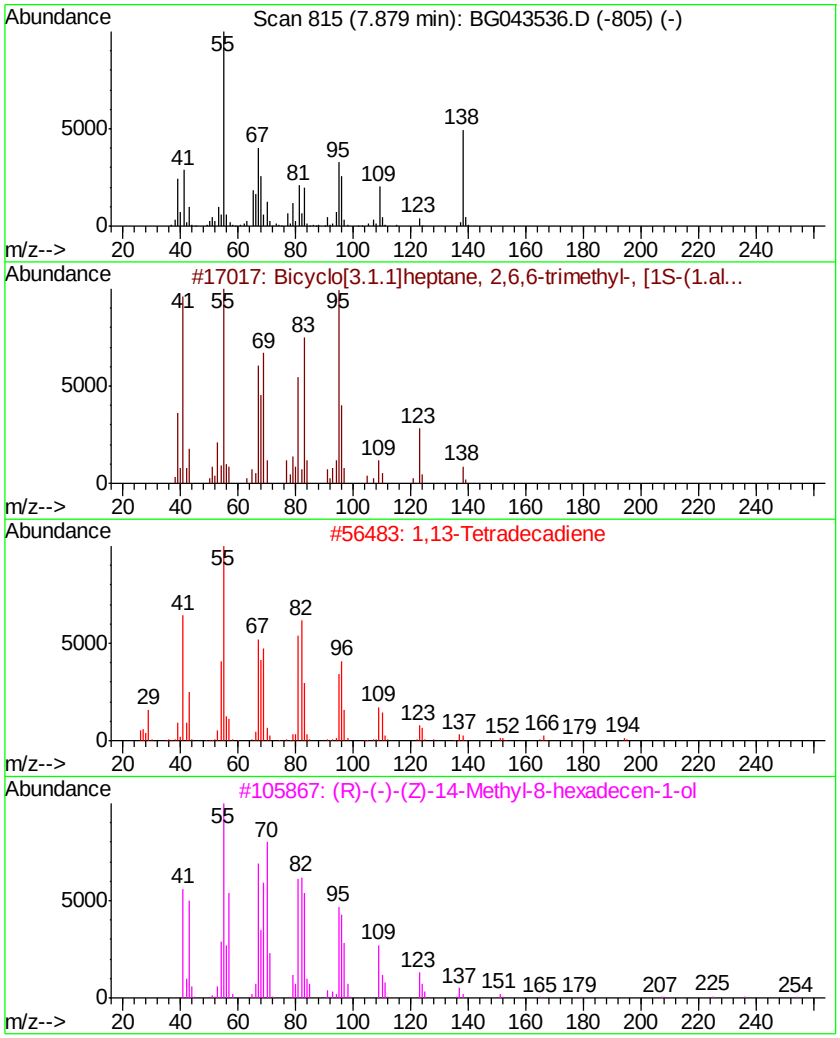
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

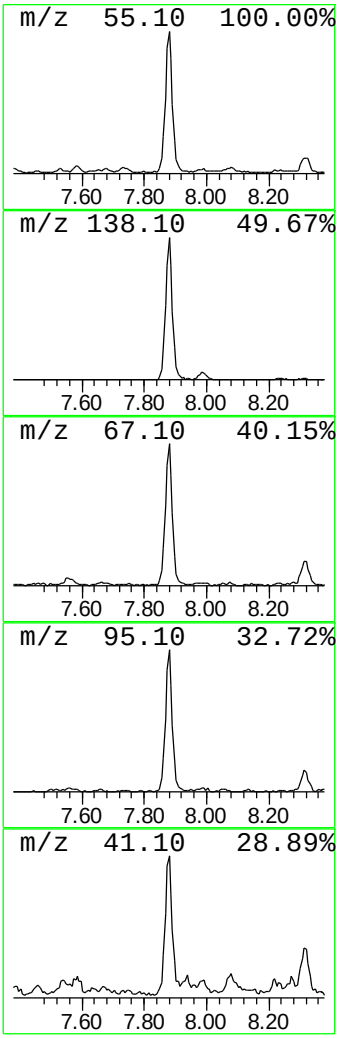
**********

Peak Number 1 unknown7.88 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.88 | 46.89 ng | 593014 | 1,4-Dichlorobenzene-d4 | 8.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 004755-33-3 | 40 |
| 2 | 1,13-Tetradecadiene | 194 | C14H26 | 021964-49-8 | 33 |
| 3 | (R)-(-)-(Z)-14-Methyl-8-hexadece... | 254 | C17H34O | 030689-78-2 | 33 |
| 4 | 17-Octadecynoic acid | 280 | C18H32O2 | 034450-18-5 | 28 |
| 5 | Cyclohexanemethanol | 114 | C7H14O | 000100-49-2 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

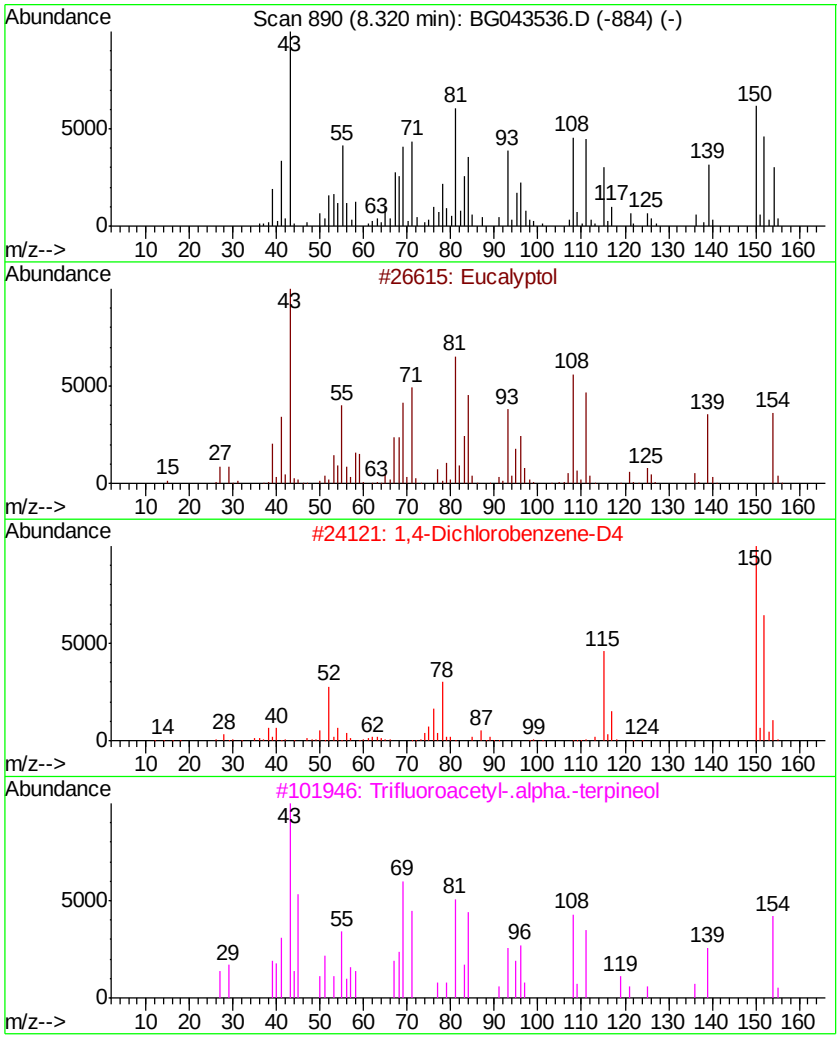
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

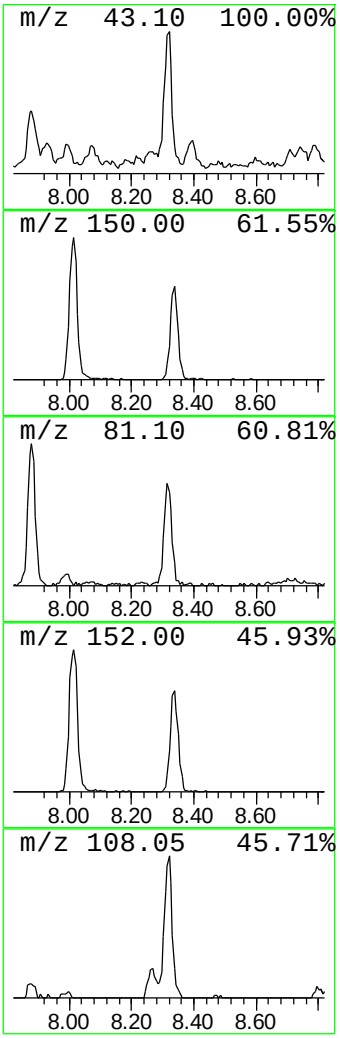
**********

Peak Number 2 Eucalyptol Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.32 | 31.08 ng | 393146 | 1,4-Dichlorobenzene-d4 | 8.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eucalyptol | 154 | C10H18O | 000470-82-6 | 98 |
| 2 | 1,4-Dichlorobenzene-D4 | 150 | C6D4Cl2 | 003855-82-1 | 56 |
| 3 | Trifluoroacetyl-.alpha.-terpineol | 250 | C12H17F3O2 | 1000058-17-6 | 49 |
| 4 | .alpha.-Bromoacrylic acid | 150 | C3H3BrO2 | 010443-65-9 | 27 |
| 5 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

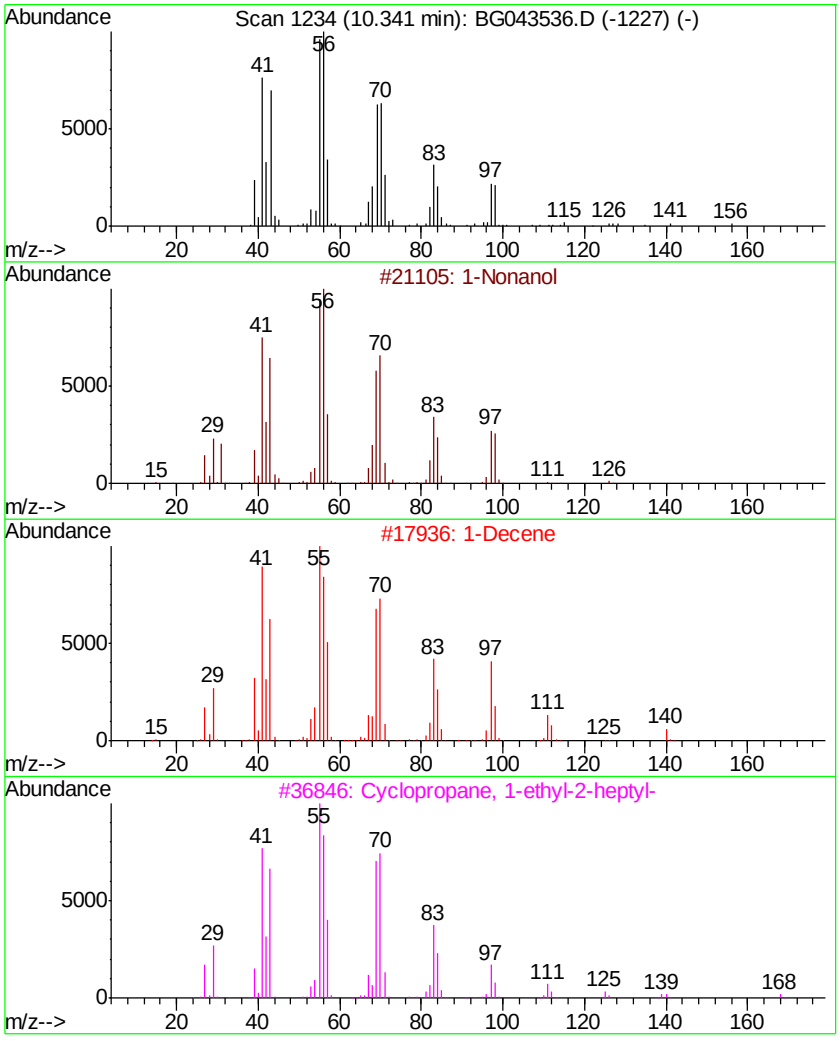
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

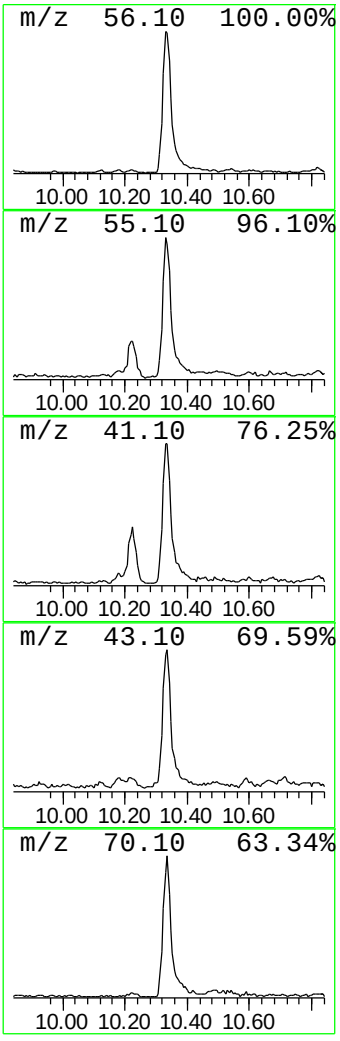
**********

Peak Number 3 1-Nonanol Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.34 | 33.23 ng | 605189 | Naphthalene-d8 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Nonanol | 144 | C9H20O | 000143-08-8 | 87 |
| 2 | 1-Decene | 140 | C10H20 | 000872-05-9 | 72 |
| 3 | Cyclopropane, 1-ethyl-2-heptyl- | 168 | C12H24 | 074663-86-8 | 72 |
| 4 | 1-Octanol | 130 | C8H18O | 000111-87-5 | 64 |
| 5 | Cycloheptane | 98 | C7H14 | 000291-64-5 | 62 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

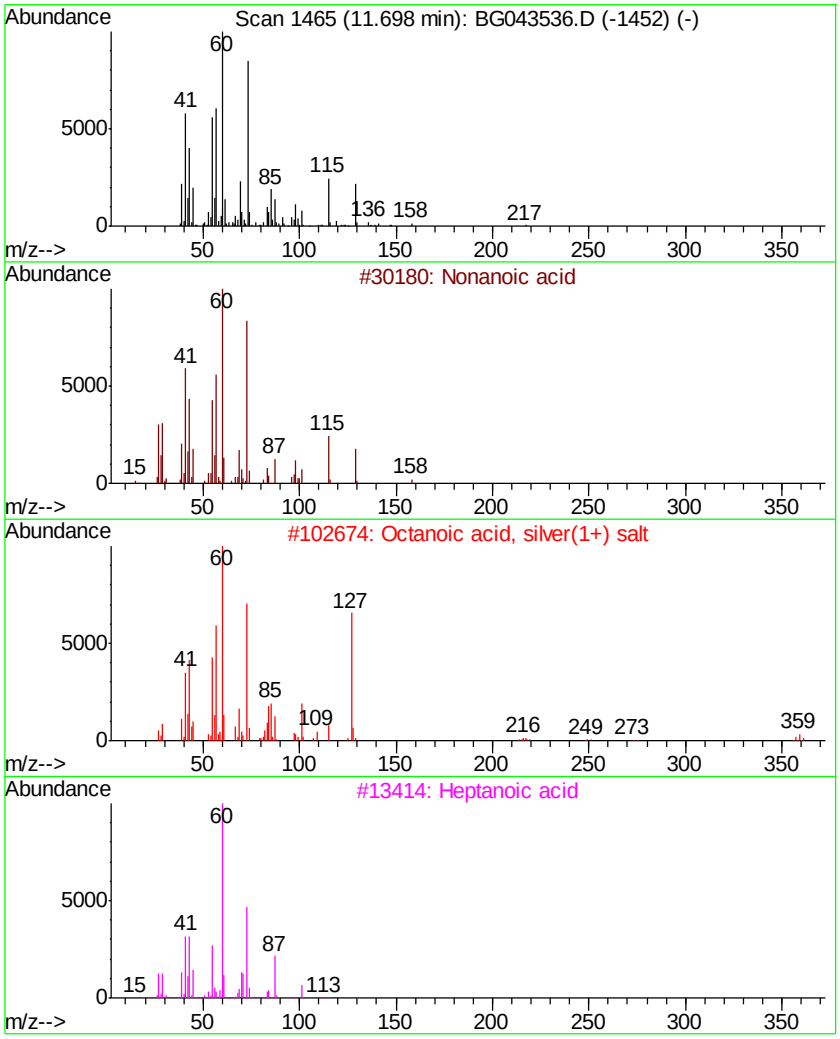
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

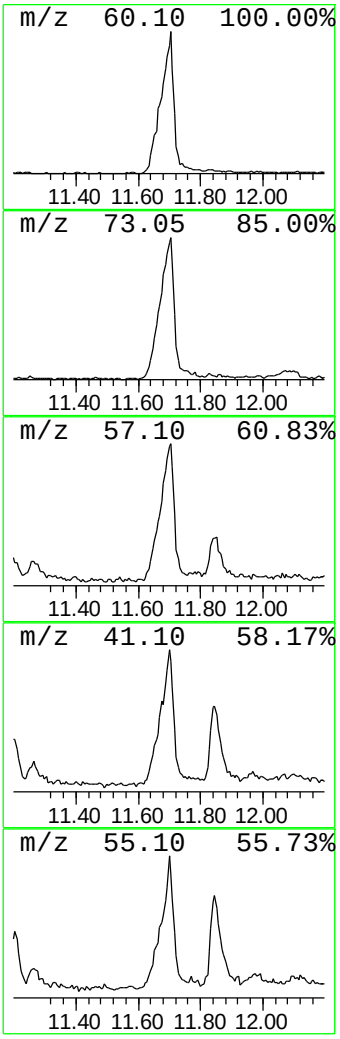
**********

Peak Number 4 Nonanoic acid Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.70 | 33.68 ng | 613328 | Naphthalene-d8 | 10.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 80 |
| 2 | Octanoic acid, silver(1+) salt | 250 | C8H15AgO2 | 024927-67-1 | 52 |
| 3 | Heptanoic acid | 130 | C7H14O2 | 000111-14-8 | 50 |
| 4 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 47 |
| 5 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

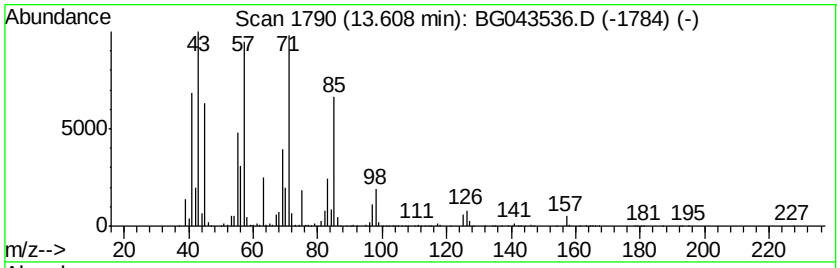
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

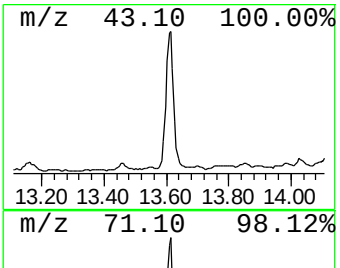
**********

Peak Number 5 Sulfurous acid, butyl nonyl... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 71.48 ng | 2297060 | Acenaphthene-d10 | 14.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 58 |
| 2 | Oxalic acid, allyl nonyl ester | 256 | C14H24O4 | 1000309-23-7 | 58 |
| 3 | Sulfurous acid, decyl 2-propyl e... | 264 | C13H28O3S | 1000309-12-1 | 43 |
| 4 | 2,3-Dimethyldecane | 170 | C12H26 | 017312-44-6 | 38 |
| 5 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

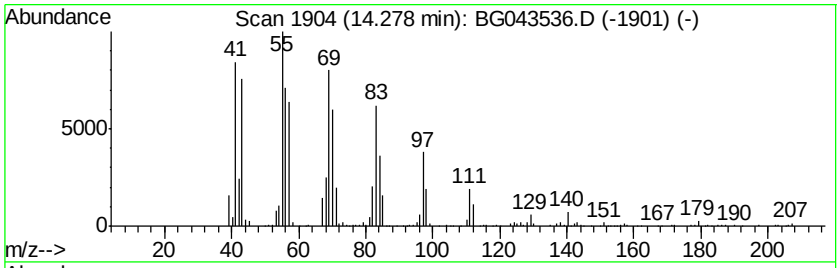
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

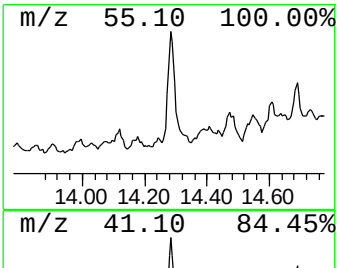
**********

Peak Number 6 1-Dodecene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.28 | 25.73 ng | 826917 | Acenaphthene-d10 | 14.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Dodecene | 168 | C12H24 | 000112-41-4 | 95 |
| 2 | Cyclopropane, nonyl- | 168 | C12H24 | 074663-85-7 | 94 |
| 3 | 1-Decene | 140 | C10H20 | 000872-05-9 | 93 |
| 4 | 1-Dodecanol | 186 | C12H26O | 000112-53-8 | 91 |
| 5 | Decyl trifluoroacetate | 254 | C12H21F3O2 | 000333-88-0 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

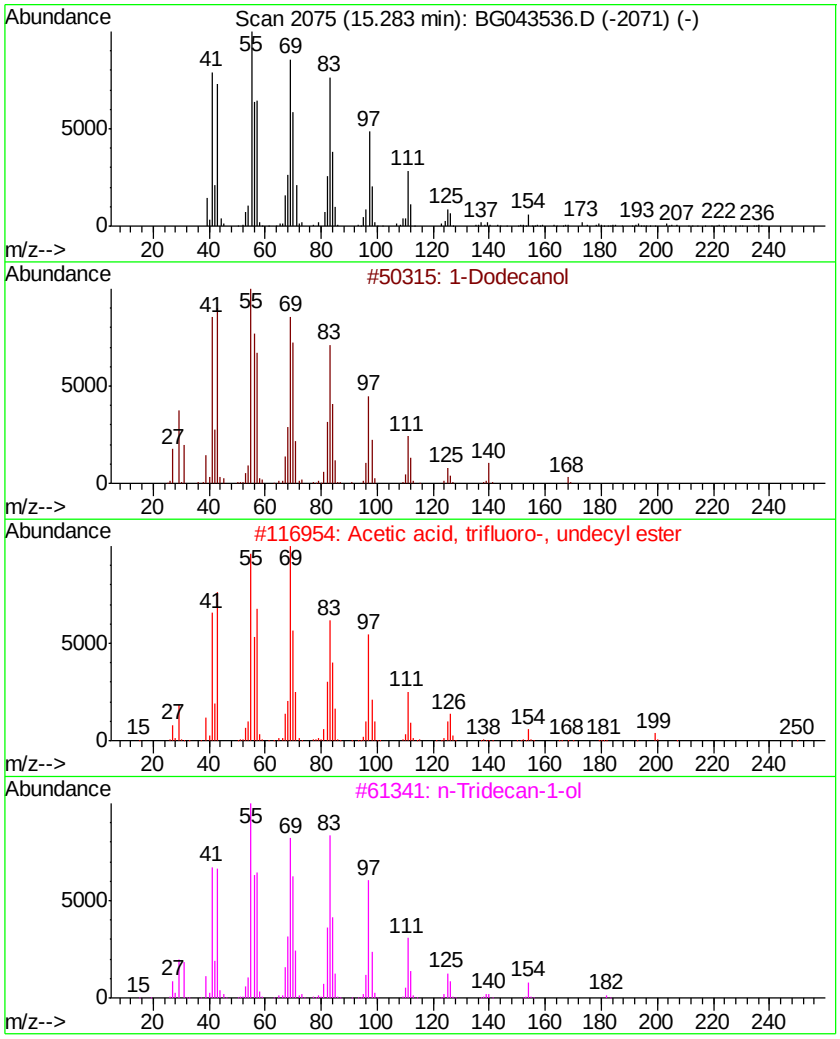
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

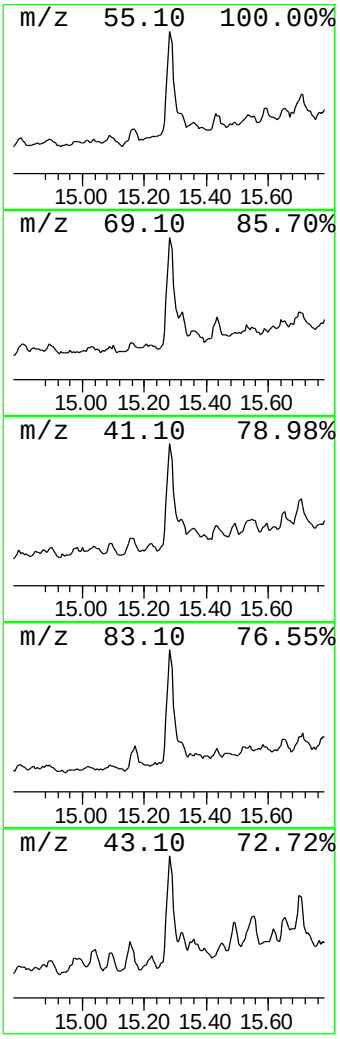
**********

Peak Number 7 Acetic acid, trifluoro-, un... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.28 | 51.24 ng | 1646860 | Acenaphthene-d10 | 14.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Dodecanol | 186 | C12H26O | 000112-53-8 | 91 |
| 2 | Acetic acid, trifluoro-, undecyl... | 268 | C13H23F3O2 | 053800-01-4 | 91 |
| 3 | n-Tridecan-1-ol | 200 | C13H28O | 000112-70-9 | 91 |
| 4 | 9-Octadecene, (E)- | 252 | C18H36 | 007206-25-9 | 91 |
| 5 | Cyclooctane, methyl- | 126 | C9H18 | 001502-38-1 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

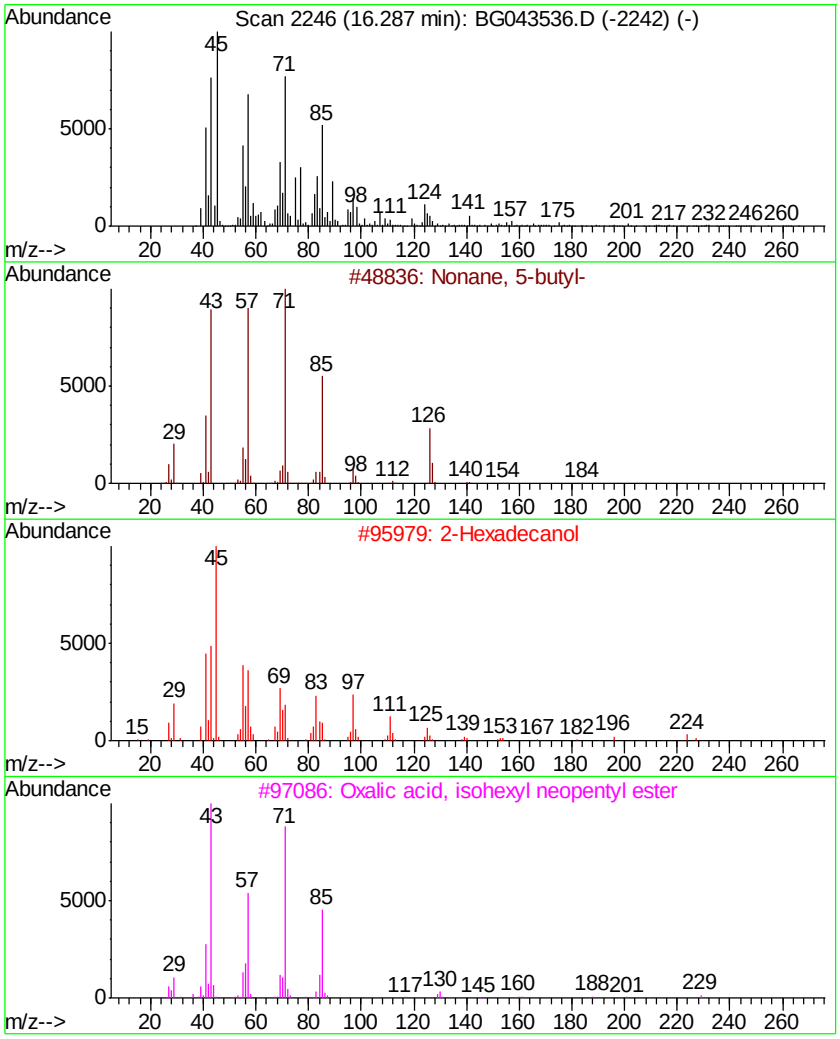
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

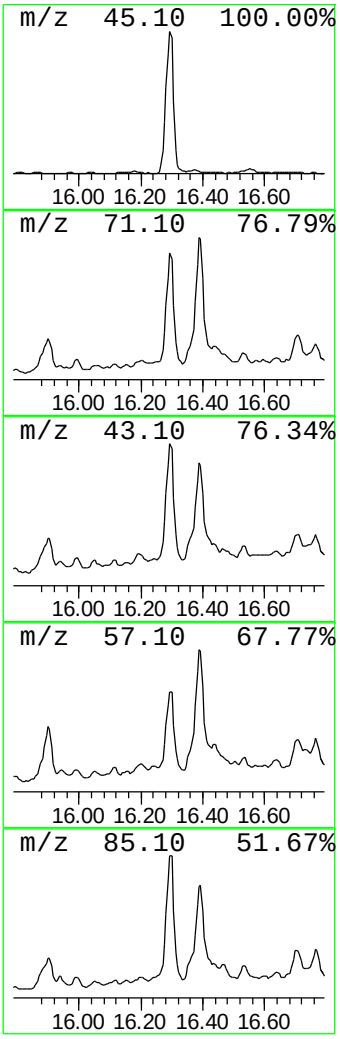
**********

Peak Number 8 unknown16.29 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.29 | 42.68 ng | 6359730 | Phenanthrene-d10 | 17.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 38 |
| 2 | 2-Hexadecanol | 242 | C16H34O | 014852-31-4 | 35 |
| 3 | Oxalic acid, isohexyl neopentyl ... | 244 | C13H24O4 | 1000309-73-0 | 35 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 35 |
| 5 | 2-Tridecanol | 200 | C13H28O | 001653-31-2 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

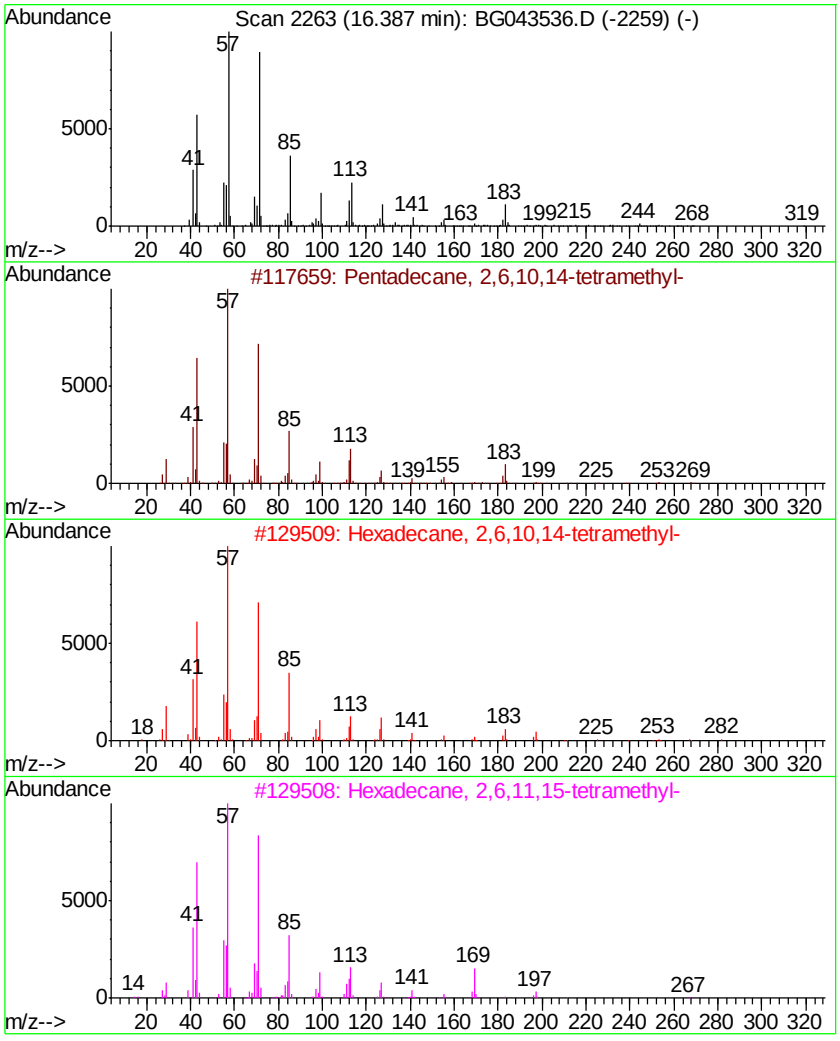
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

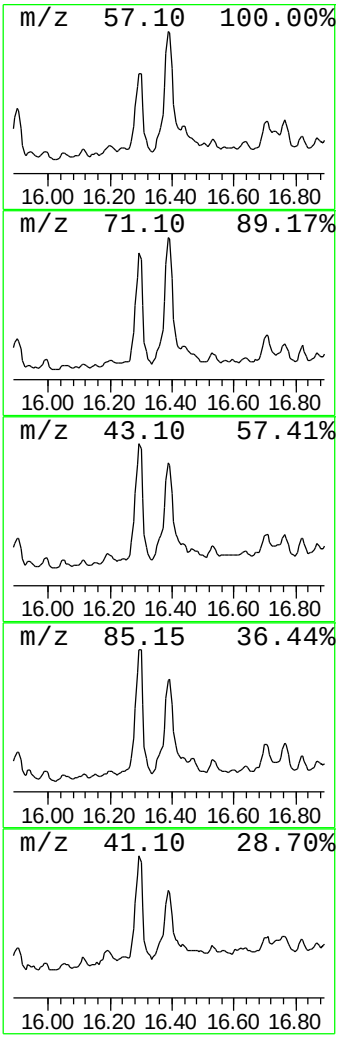
**********

Peak Number 9 Pentadecane, 2,6,10,14-tetr... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.39 | 31.44 ng | 4684840 | Phenanthrene-d10 | 17.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 91 |
| 2 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 86 |
| 3 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 80 |
| 4 | Heptadecane, 2,6-dimethyl- | 268 | C19H40 | 054105-67-8 | 68 |
| 5 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 68 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

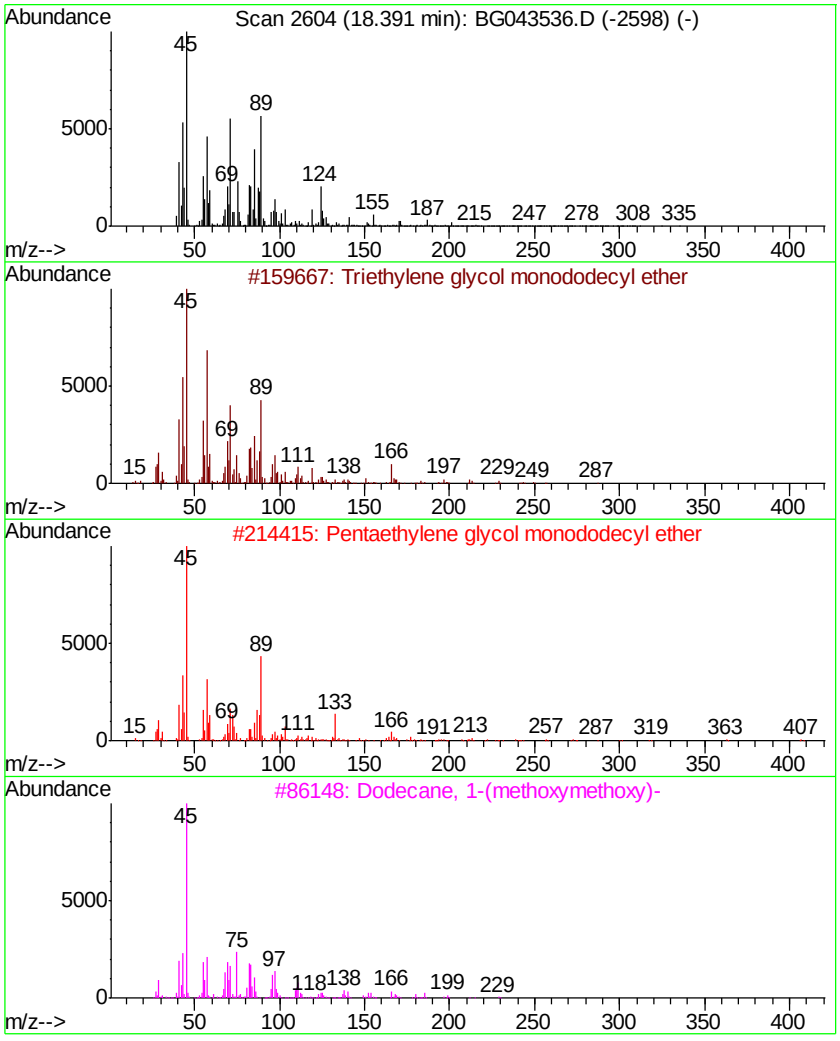
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

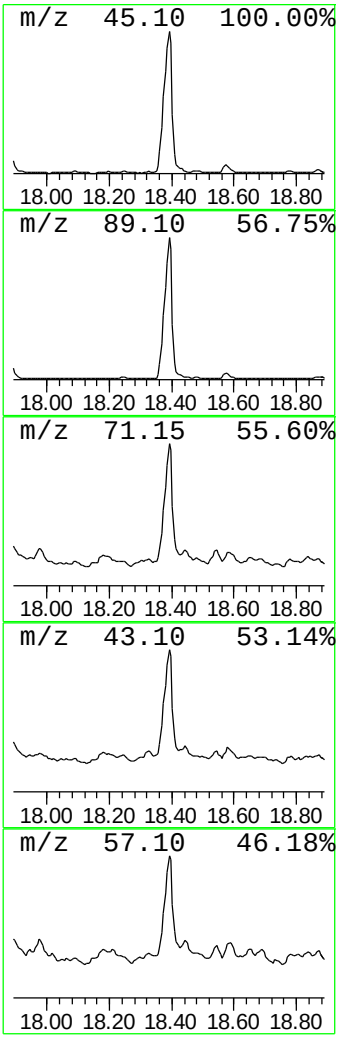
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Triethylene glycol monodode... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.39 | 77.12 ng | 11491700 | Phenanthrene-d10 | 17.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triethylene glycol monododecyl e... | 318 | C18H38O4 | 003055-94-5 | 52 |
| 2 | Pentaethylene glycol monododecyl... | 406 | C22H46O6 | 003055-95-6 | 43 |
| 3 | Dodecane, 1-(methoxymethoxy)- | 230 | C14H30O2 | 034458-41-8 | 43 |
| 4 | 2-Hexadecanol | 242 | C16H34O | 014852-31-4 | 42 |
| 5 | Pentaethylene glycol | 238 | C10H22O6 | 004792-15-8 | 38 |



Library Search Compound Report

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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

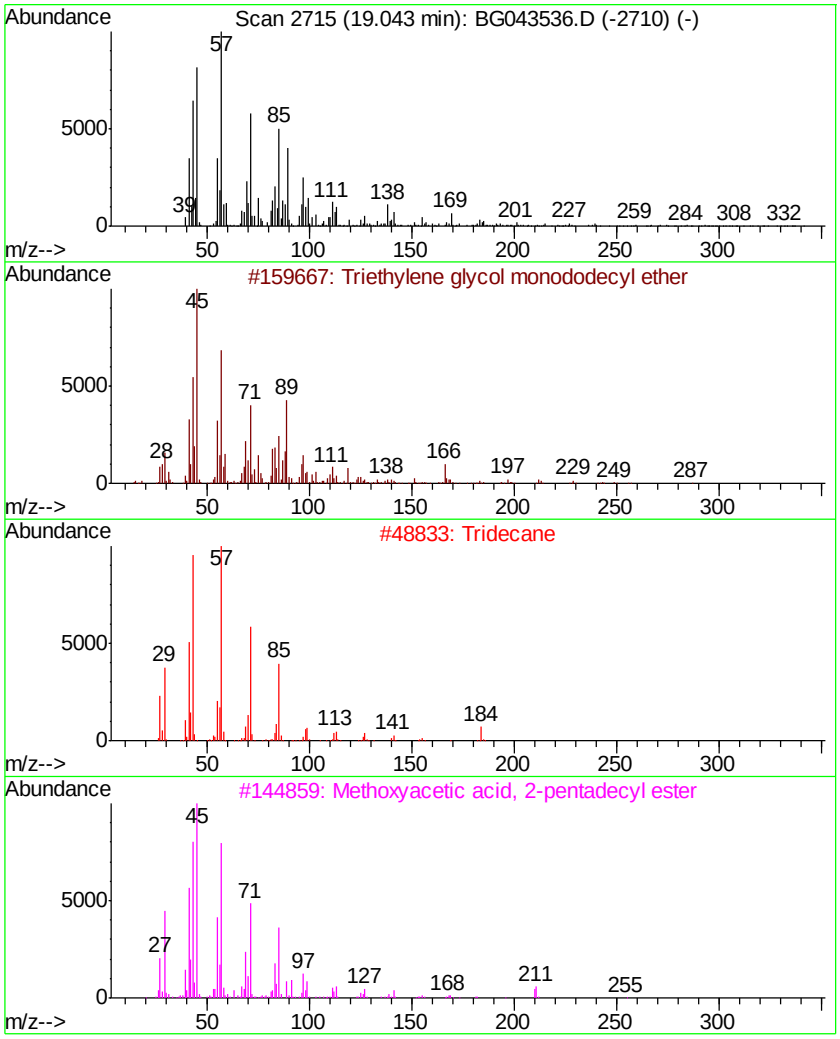
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

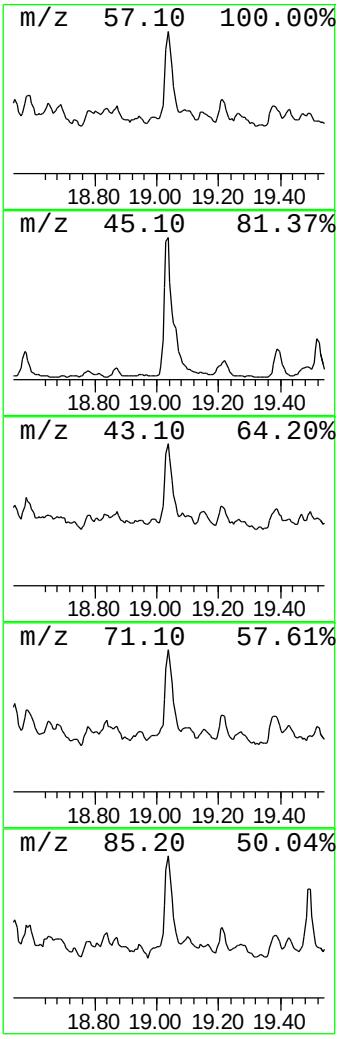
**********

Peak Number 11 Tridecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.04 | 22.66 ng | 3376170 | Phenanthrene-d10 | 17.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triethylene glycol monododecyl e... | 318 | C18H38O4 | 003055-94-5 | 74 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 62 |
| 3 | Methoxyacetic acid, 2-pentadecyl... | 300 | C18H36O3 | 1000282-05-1 | 62 |
| 4 | 2-Hexadecanol | 242 | C16H34O | 014852-31-4 | 50 |
| 5 | Methoxyacetic acid, 3-tetradecyl... | 286 | C17H34O3 | 1000282-04-9 | 46 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

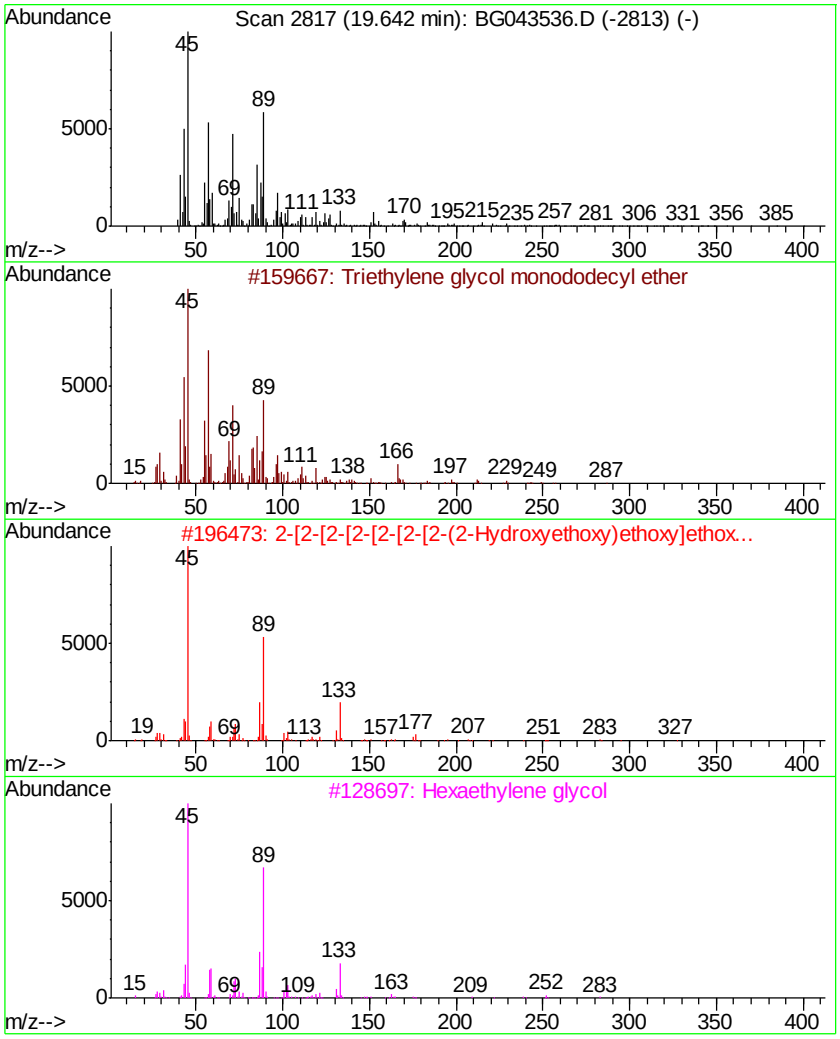
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

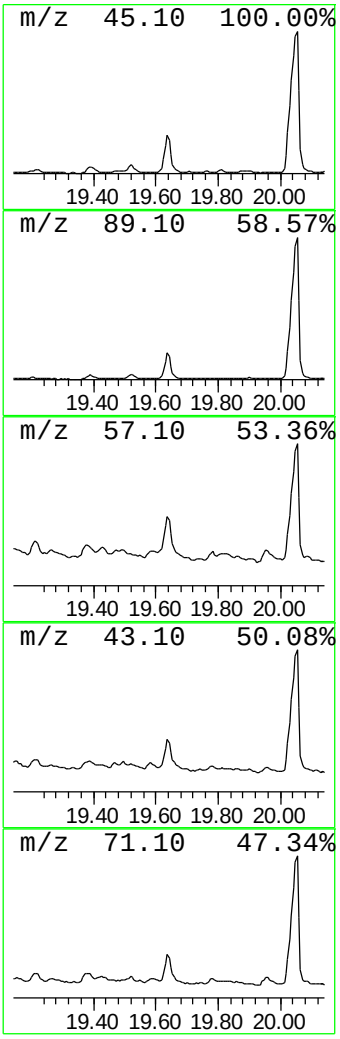
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 2-[2-[2-[2-[2-[2-[2-(2-Hydr... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.64 | 87.05 ng | 3593140 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triethylene glycol monododecyl e... | 318 | C18H38O4 | 003055-94-5 | 62 |
| 2 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 58 |
| 3 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 52 |
| 4 | Heptaethylene glycol | 326 | C14H30O8 | 005617-32-3 | 52 |
| 5 | Octaethylene glycol monododecyl ... | 538 | C28H58O9 | 003055-98-9 | 52 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

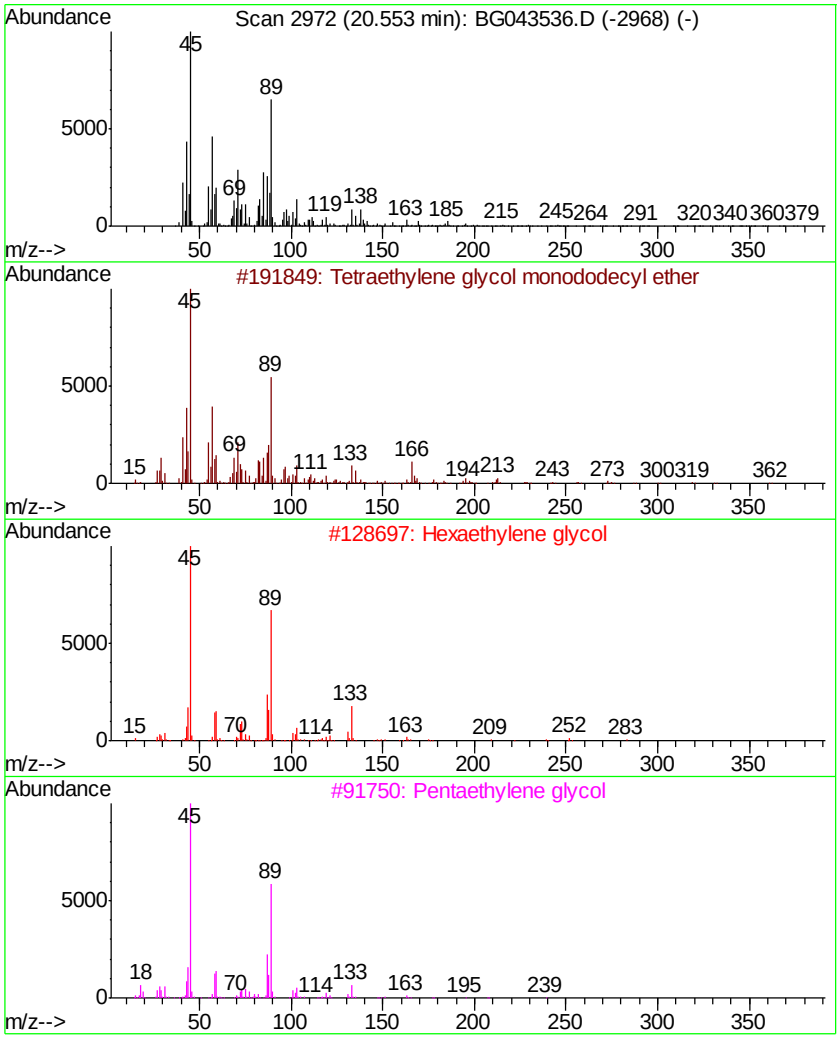
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

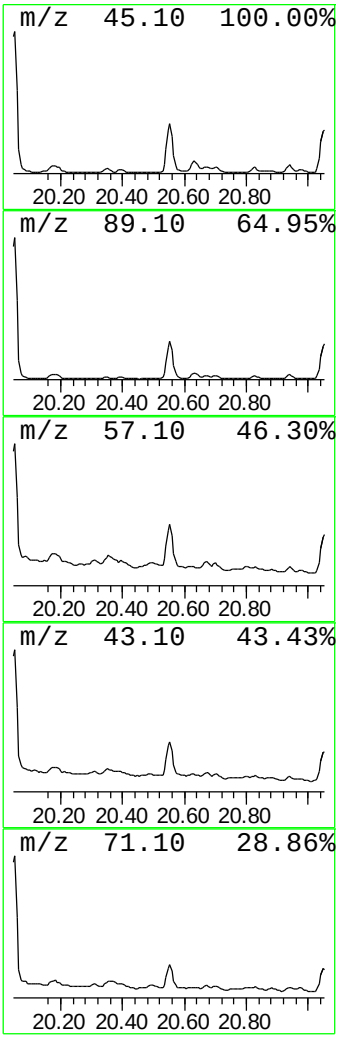
**********

Peak Number 13 Pentaethylene glycol Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.55 | 95.56 ng | 3944510 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetraethylene glycol monododecyl... | 362 | C20H42O5 | 005274-68-0 | 64 |
| 2 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 64 |
| 3 | Pentaethylene glycol | 238 | C10H22O6 | 004792-15-8 | 59 |
| 4 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 53 |
| 5 | Tetraethylene glycol | 194 | C8H18O5 | 000112-60-7 | 52 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

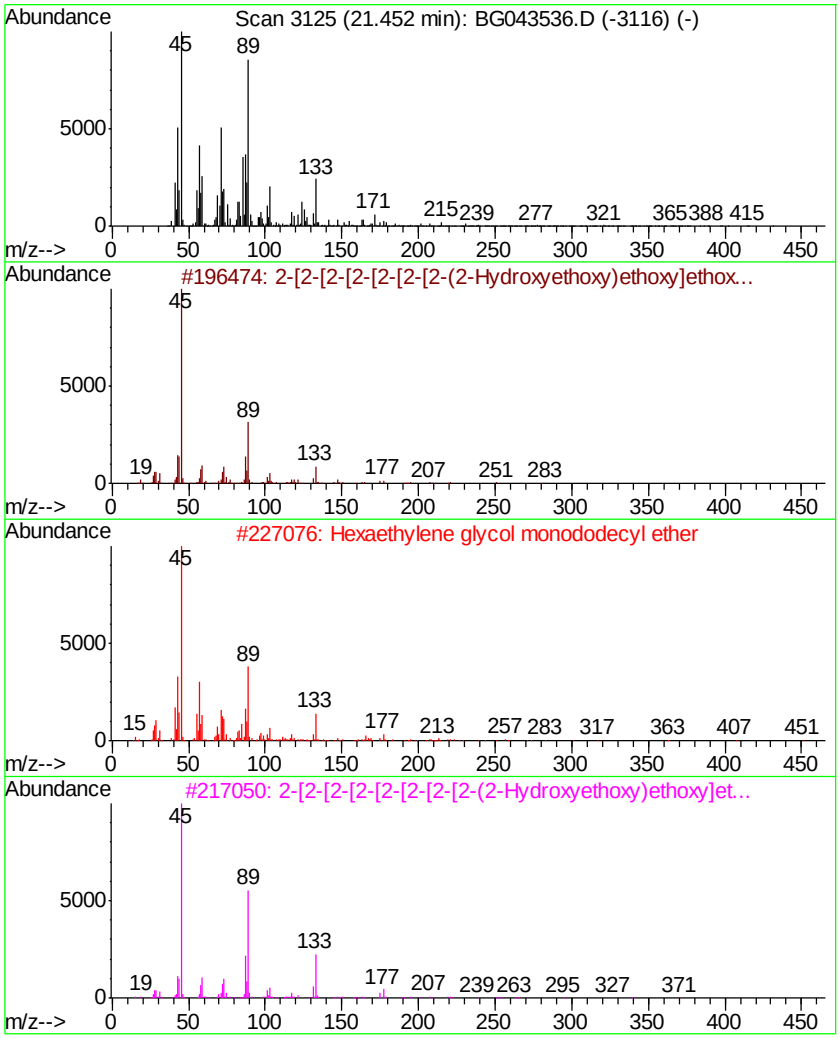
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

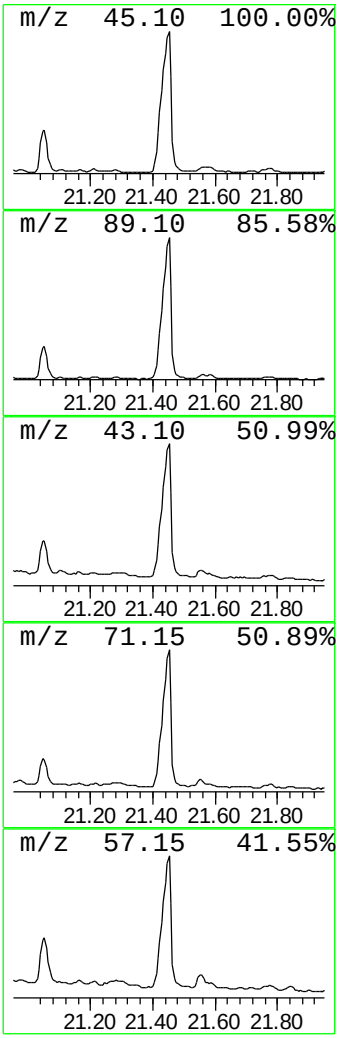
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Hexaethylene glycol monodod... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.45 | 463.45 ng | 19129800 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-[2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 87 |
| 2 | Hexaethylene glycol monododecyl ... | 450 | C24H50O7 | 003055-96-7 | 78 |
| 3 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 1000352-12-5 | 72 |
| 4 | Heptaethylene glycol | 326 | C14H30O8 | 005617-32-3 | 72 |
| 5 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 72 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

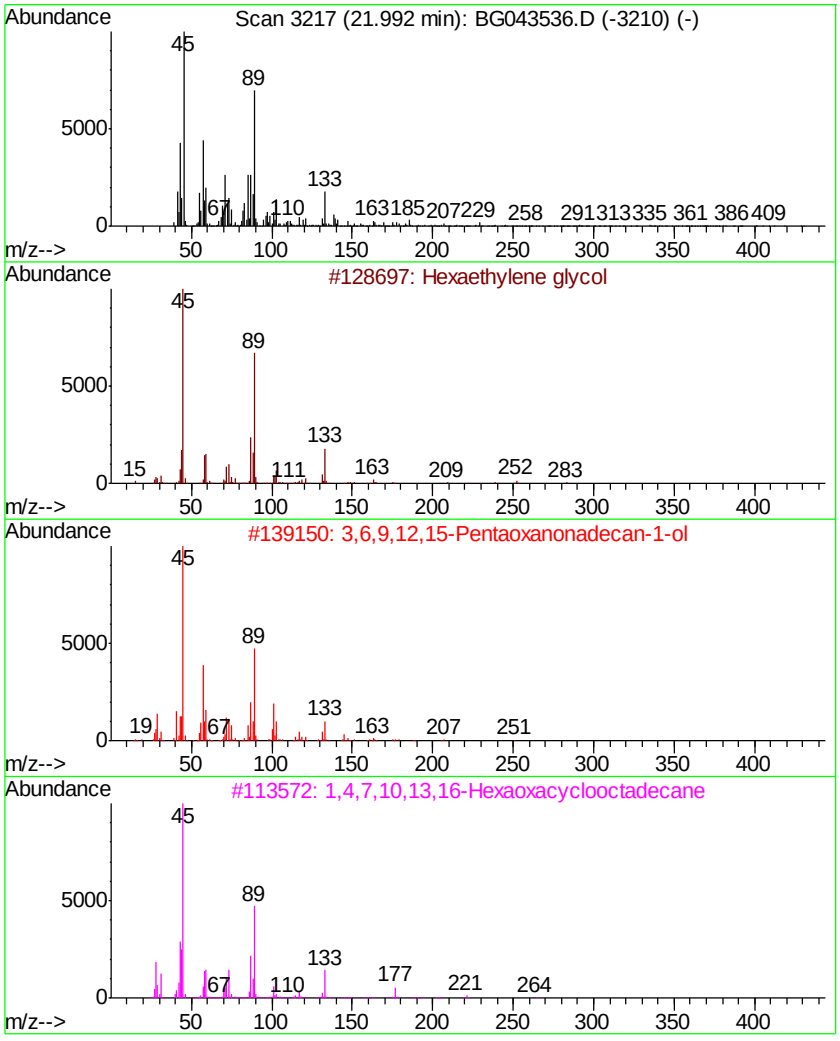
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

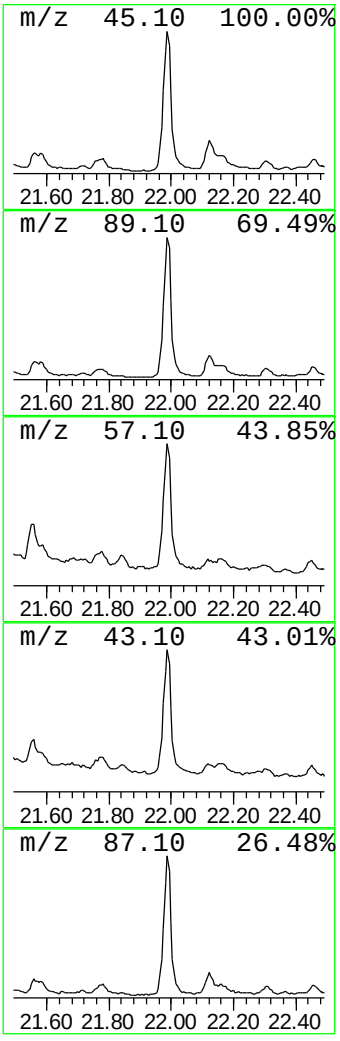
**********

Peak Number 16 Hexaethylene glycol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.99 | 117.49 ng | 4849520 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 90 |
| 2 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 86 |
| 3 | 1,4,7,10,13,16-Hexaoxacyclooctad... | 264 | C12H24O6 | 017455-13-9 | 80 |
| 4 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hyd... | 458 | C20H42O11 | 1000352-12-6 | 80 |
| 5 | 3,6,9,12-Tetraoxahexadecan-1-ol | 250 | C12H26O5 | 001559-34-8 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

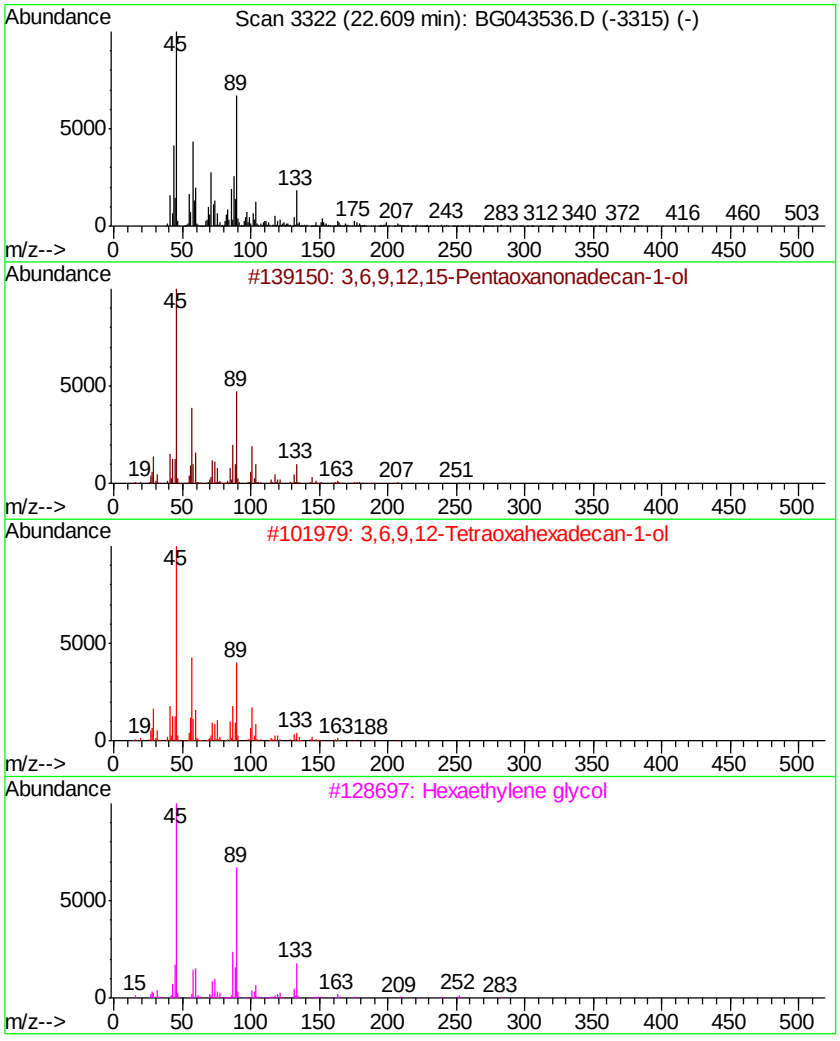
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

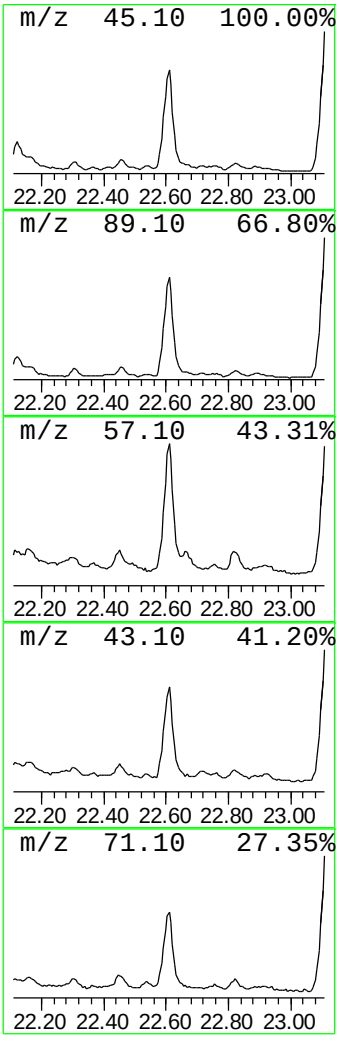
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 3,6,9,12,15-Pentaoxanonadec... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.61 | 95.41 ng | 3938300 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 87 |
| 2 | 3,6,9,12-Tetraoxahexadecan-1-ol | 250 | C12H26O5 | 001559-34-8 | 86 |
| 3 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 83 |
| 4 | 2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 1000352-12-5 | 80 |
| 5 | 2-[2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 74 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

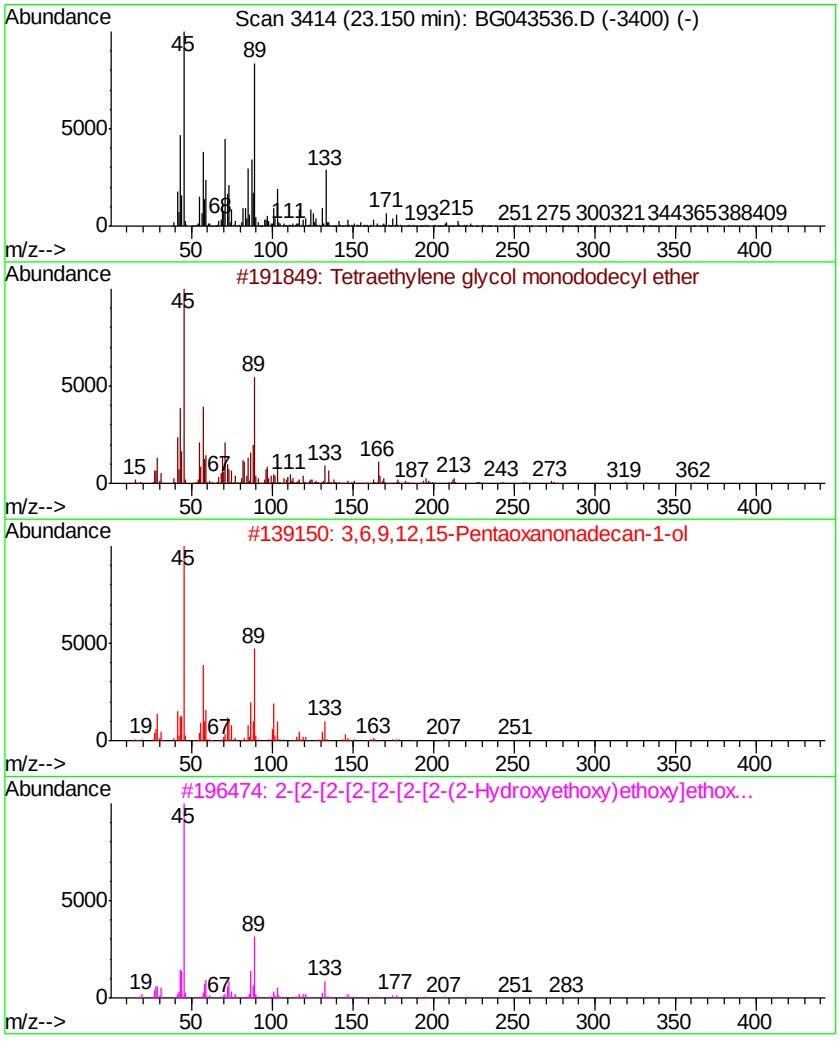
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

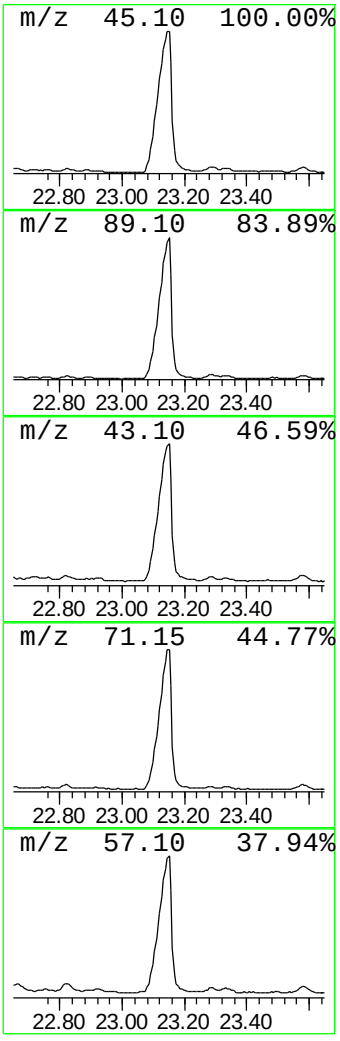
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 Tetraethylene glycol monodo... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.15 | 454.75 ng | 18770500 | Chrysene-d12 | 21.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetraethylene glycol monododecyl... | 362 | C20H42O5 | 005274-68-0 | 86 |
| 2 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 86 |
| 3 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 83 |
| 4 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hyd... | 458 | C20H42O11 | 1000352-12-6 | 83 |
| 5 | 2-[2-[2-[2-[2-[2-[2-(2-Methox... | 428 | C19H40O10 | 1000352-04-3 | 72 |



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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

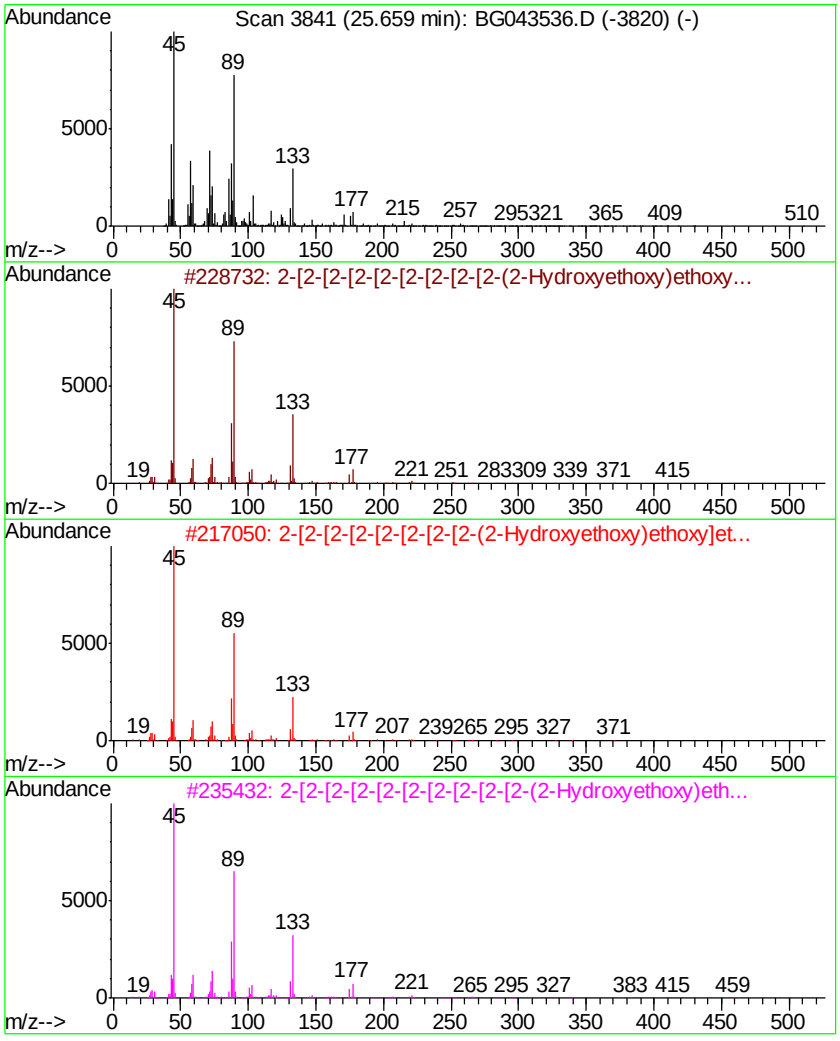
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

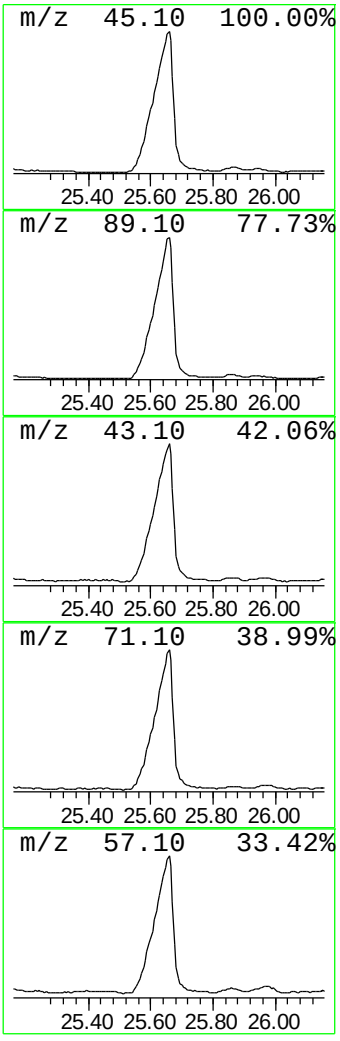
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 2-[2-[2-[2-[2-[2-[2-[2-(2-H... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.66 | 75.41 ng | 16640000 | Perylene-d12 | 24.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Hyd... | 458 | C20H42O11 | 1000352-12-6 | 87 |
| 2 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 1000352-12-5 | 83 |
| 3 | 2-[2-[2-[2-[2-[2-[2-[2-[2-(2-... | 502 | C22H46O12 | 1000352-13-2 | 83 |
| 4 | 2-[2-[2-[2-[2-[2-(2-Hydroxyvet... | 370 | C16H34O9 | 005117-19-1 | 80 |
| 5 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Methox... | 428 | C19H40O10 | 1000352-04-3 | 72 |



Library Search Compound Report

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Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

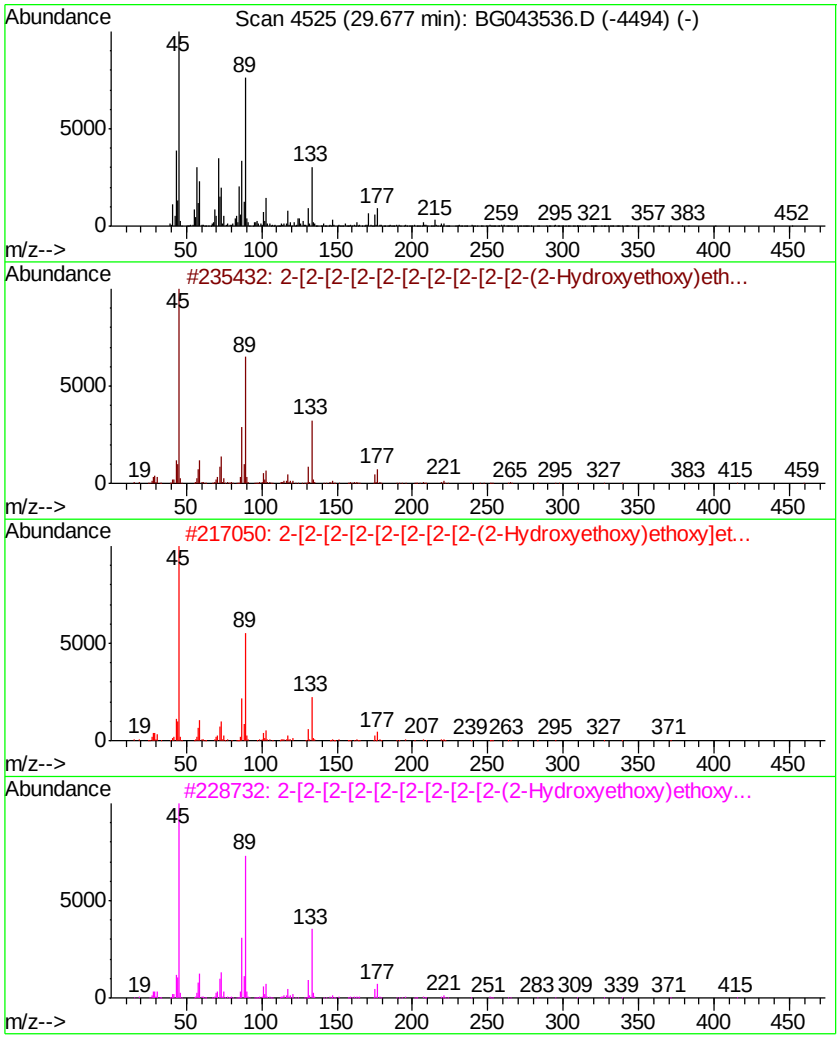
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

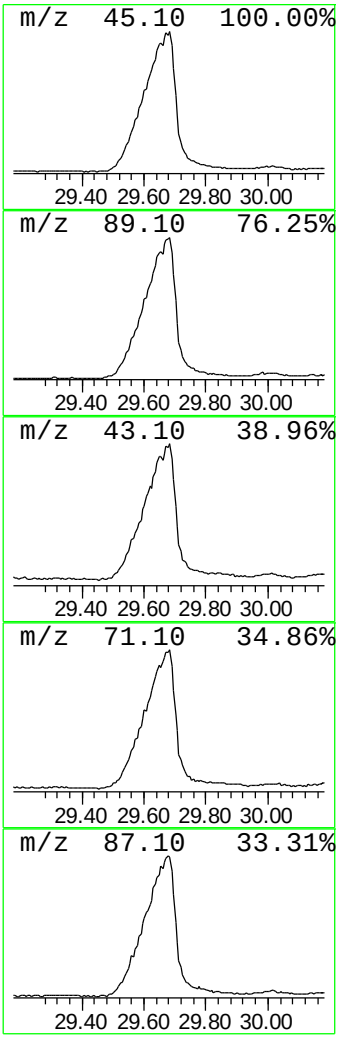
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 2-[2-[2-[2-[2-[2-[2-[2-[2-(... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 29.68 | 52.16 ng | 11509100 | Perylene-d12 | 24.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-(2-... | 502 | C22H46O12 | 1000352-13-2 | 93 |
| 2 | 2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-(2-Hydrox... | 414 | C18H38O10 | 1000352-12-5 | 90 |
| 3 | 2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-(2-Hyd... | 458 | C20H42O11 | 1000352-12-6 | 90 |
| 4 | 2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-⌈2-... | 546 | C24H50O13 | 1000352-12-7 | 90 |
| 5 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG110619\
Data File : BG043536.D
Acq On : 7 Nov 2019 1:18
Operator : JU
Sample : K5683-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** OILY-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG102119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown7.88 | 7.88 | 46.9 | ng | 593014 | 1 | 8.01 | 252957 | 20.0 |
| Eucalyptol | 8.32 | 31.1 | ng | 393146 | 1 | 8.01 | 252957 | 20.0 |
| 1-Nonanol | 10.34 | 33.2 | ng | 605189 | 2 | 10.82 | 364246 | 20.0 |
| Nonanoic acid | 11.70 | 33.7 | ng | 613328 | 2 | 10.82 | 364246 | 20.0 |
| Sulfurous acid, b... | 13.61 | 71.5 | ng | 2297060 | 3 | 14.64 | 642744 | 20.0 |
| 1-Dodecene | 14.28 | 25.7 | ng | 826917 | 3 | 14.64 | 642744 | 20.0 |
| Acetic acid, trif... | 15.28 | 51.2 | ng | 1646860 | 3 | 14.64 | 642744 | 20.0 |
| unknown16.29 | 16.29 | 42.7 | ng | 6359730 | 4 | 17.40 | 2980220 | 20.0 |
| Pentadecane, 2,6,... | 16.39 | 31.4 | ng | 4684840 | 4 | 17.40 | 2980220 | 20.0 |
| Triethylene glyco... | 18.39 | 77.1 | ng | 11491700 | 4 | 17.40 | 2980220 | 20.0 |
| Tridecane | 19.04 | 22.7 | ng | 3376170 | 4 | 17.40 | 2980220 | 20.0 |
| 2-[2-[2-[2-[2-[2-... | 19.64 | 87.0 | ng | 3593140 | 5 | 21.68 | 825539 | 20.0 |
| Pentaethylene glycol | 20.55 | 95.6 | ng | 3944510 | 5 | 21.68 | 825539 | 20.0 |
| Hexaethylene glyc... | 21.45 | 463.4 | ng | 19129800 | 5 | 21.68 | 825539 | 20.0 |
| Hexaethylene glycol | 21.99 | 117.5 | ng | 4849520 | 5 | 21.68 | 825539 | 20.0 |
| 3,6,9,12,15-Penta... | 22.61 | 95.4 | ng | 3938300 | 5 | 21.68 | 825539 | 20.0 |
| Tetraethylene gly... | 23.15 | 454.8 | ng | 18770500 | 5 | 21.68 | 825539 | 20.0 |
| 2-[2-[2-[2-[2-[2-... | 25.66 | 75.4 | ng | 16640000 | 6 | 24.87 | 4413180 | 20.0 |
| 2-[2-[2-[2-[2-[2-... | 29.68 | 52.2 | ng | 11509100 | 6 | 24.87 | 4413180 | 20.0 |