LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

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_M\METHODS\8270-BM021119.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 | 4.857 | 297 | 301 | 312 | rVB | 335833 | 486694 | 2.49% | 0.336% |
| 2 | 5.299 | 369 | 376 | 391 | rBV | 7810941 | 11062057 | 56.66% | 7.628% |
| 3 | 6.887 | 638 | 646 | 663 | rBV | 7398839 | 12657771 | 64.84% | 8.729% |
| 4 | 7.240 | 698 | 706 | 722 | rBV | 7900216 | 12238252 | 62.69% | 8.439% |
| 5 | 7.704 | 778 | 785 | 793 | rBV | 1323947 | 2060323 | 10.55% | 1.421% |
| 6 | 8.022 | 831 | 839 | 850 | rBV | 5349696 | 8447221 | 43.27% | 5.825% |
| 7 | 8.875 | 975 | 984 | 996 | rBV | 4359241 | 7133344 | 36.54% | 4.919% |
| 8 | 10.492 | 1247 | 1259 | 1266 | rBV | 1712989 | 2847793 | 14.59% | 1.964% |
| 9 | 12.969 | 1673 | 1680 | 1696 | rBV | 10157056 | 14752869 | 75.57% | 10.174% |
| 10 | 13.816 | 1817 | 1824 | 1836 | rBV | 407601 | 612580 | 3.14% | 0.422% |
| 11 | 14.357 | 1904 | 1916 | 1922 | rBV2 | 2369701 | 3719963 | 19.05% | 2.565% |
| 12 | 14.416 | 1922 | 1926 | 1933 | rVB2 | 136477 | 223604 | 1.15% | 0.154% |
| 13 | 15.404 | 2087 | 2094 | 2105 | rVB | 131844 | 231189 | 1.18% | 0.159% |
| 14 | 15.851 | 2163 | 2170 | 2190 | rBV | 8536402 | 12551820 | 64.29% | 8.656% |
| 15 | 17.104 | 2377 | 2383 | 2387 | rBV | 3010709 | 4370816 | 22.39% | 3.014% |
| 16 | 17.145 | 2387 | 2390 | 2399 | rVV | 1792541 | 2505443 | 12.83% | 1.728% |
| 17 | 17.239 | 2401 | 2406 | 2410 | rVB | 404998 | 544393 | 2.79% | 0.375% |
| 18 | 17.515 | 2444 | 2453 | 2459 | rBV3 | 93556 | 235942 | 1.21% | 0.163% |
| 19 | 17.992 | 2522 | 2534 | 2537 | rBV2 | 844375 | 1412754 | 7.24% | 0.974% |
| 20 | 18.027 | 2537 | 2540 | 2546 | rVV | 396209 | 632897 | 3.24% | 0.436% |
| 21 | 18.110 | 2550 | 2554 | 2559 | rVV | 172746 | 265651 | 1.36% | 0.183% |
| 22 | 18.174 | 2559 | 2565 | 2569 | rVV2 | 322894 | 634836 | 3.25% | 0.438% |
| 23 | 18.209 | 2569 | 2571 | 2578 | rVB | 171641 | 240224 | 1.23% | 0.166% |
| 24 | 18.486 | 2613 | 2618 | 2622 | rBV | 177542 | 232805 | 1.19% | 0.161% |
| 25 | 18.898 | 2684 | 2688 | 2695 | rBV2 | 123763 | 211916 | 1.09% | 0.146% |
| 26 | 19.168 | 2728 | 2734 | 2742 | rBV | 2562886 | 3246212 | 16.63% | 2.239% |
| 27 | 19.274 | 2748 | 2752 | 2757 | rBV2 | 317935 | 469621 | 2.41% | 0.324% |
| 28 | 19.498 | 2785 | 2790 | 2792 | rBV2 | 442942 | 600160 | 3.07% | 0.414% |
| 29 | 19.533 | 2792 | 2796 | 2804 | rVV | 2087266 | 2852039 | 14.61% | 1.967% |
| 30 | 19.604 | 2804 | 2808 | 2815 | rVB2 | 140573 | 218871 | 1.12% | 0.151% |
| 31 | 19.739 | 2823 | 2831 | 2836 | rBV | 16003638 | 19522391 | 100.00% | 13.463% |
| 32 | 19.856 | 2846 | 2851 | 2859 | rVB3 | 152227 | 353868 | 1.81% | 0.244% |
| 33 | 20.033 | 2869 | 2881 | 2885 | rBV3 | 276163 | 697085 | 3.57% | 0.481% |
| 34 | 20.186 | 2901 | 2907 | 2911 | rBV2 | 200136 | 332617 | 1.70% | 0.229% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

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_M\METHODS\8270-BM021119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 20.998 | 3039 | 3045 | 3054 | rVV4 | 1106456 | 1806973 | 9.26% | 1.246% |
| 36 | 21.298 | 3089 | 3096 | 3100 | rBV2 | 4007732 | 6047880 | 30.98% | 4.171% |
| 37 | 21.333 | 3100 | 3102 | 3111 | rVB | 903742 | 1028522 | 5.27% | 0.709% |
| 38 | 21.433 | 3116 | 3119 | 3126 | rVV2 | 334716 | 464978 | 2.38% | 0.321% |
| 39 | 21.868 | 3190 | 3193 | 3196 | rVB | 355599 | 368348 | 1.89% | 0.254% |
| 40 | 22.327 | 3268 | 3271 | 3276 | rBV | 470889 | 621271 | 3.18% | 0.428% |
| 41 | 22.839 | 3354 | 3358 | 3360 | rBV | 463215 | 624824 | 3.20% | 0.431% |
| 42 | 22.874 | 3361 | 3364 | 3369 | rVB | 264571 | 525424 | 2.69% | 0.362% |
| 43 | 23.350 | 3442 | 3445 | 3450 | rBV | 212432 | 328939 | 1.68% | 0.227% |
| 44 | 23.409 | 3451 | 3455 | 3458 | rVV | 286225 | 405631 | 2.08% | 0.280% |
| 45 | 23.450 | 3458 | 3462 | 3471 | rVB | 448674 | 789686 | 4.05% | 0.545% |
| 46 | 23.550 | 3473 | 3479 | 3486 | rBV2 | 1769448 | 3393178 | 17.38% | 2.340% |

Sum of corrected areas: 145011675

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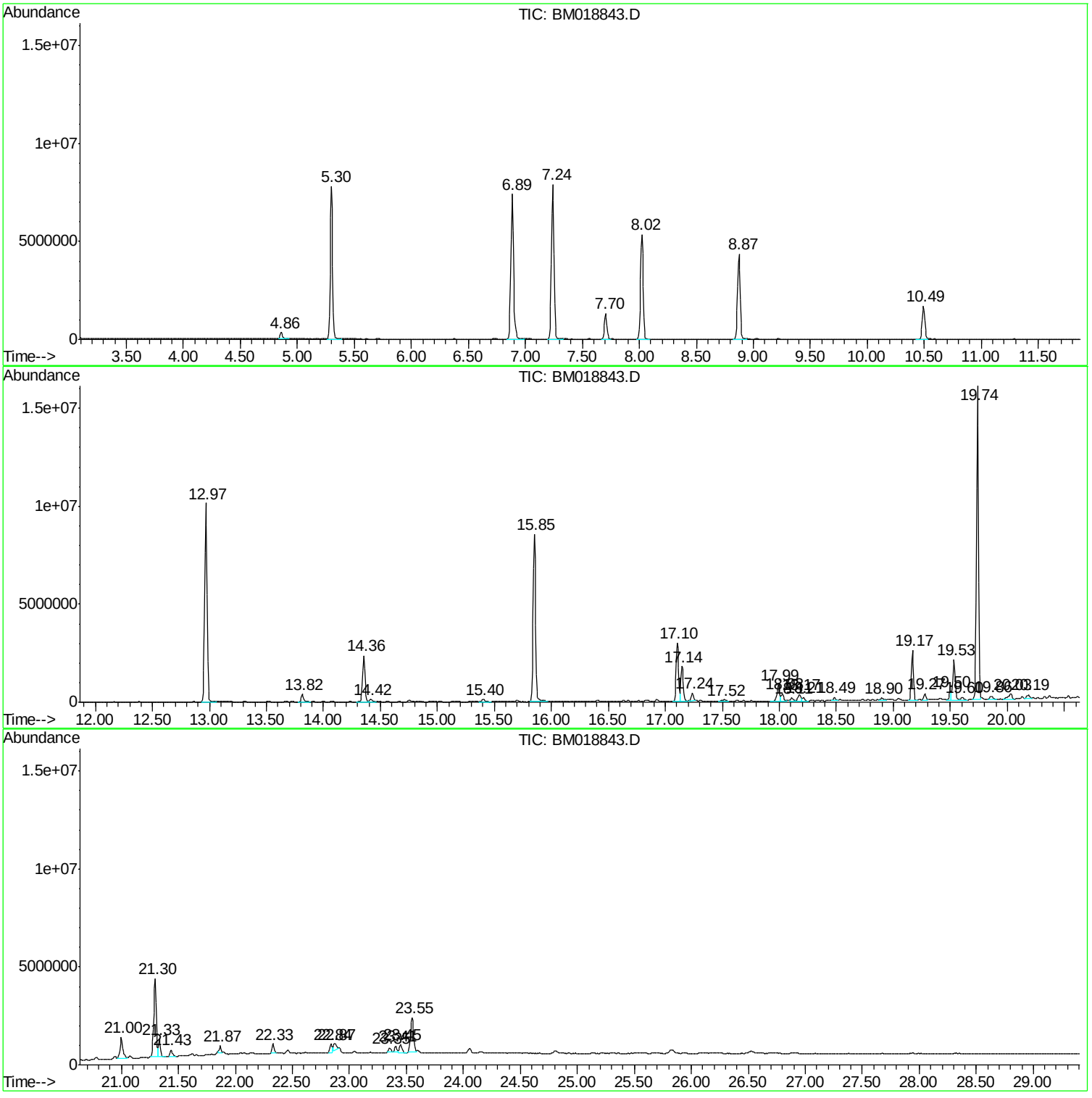
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.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:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

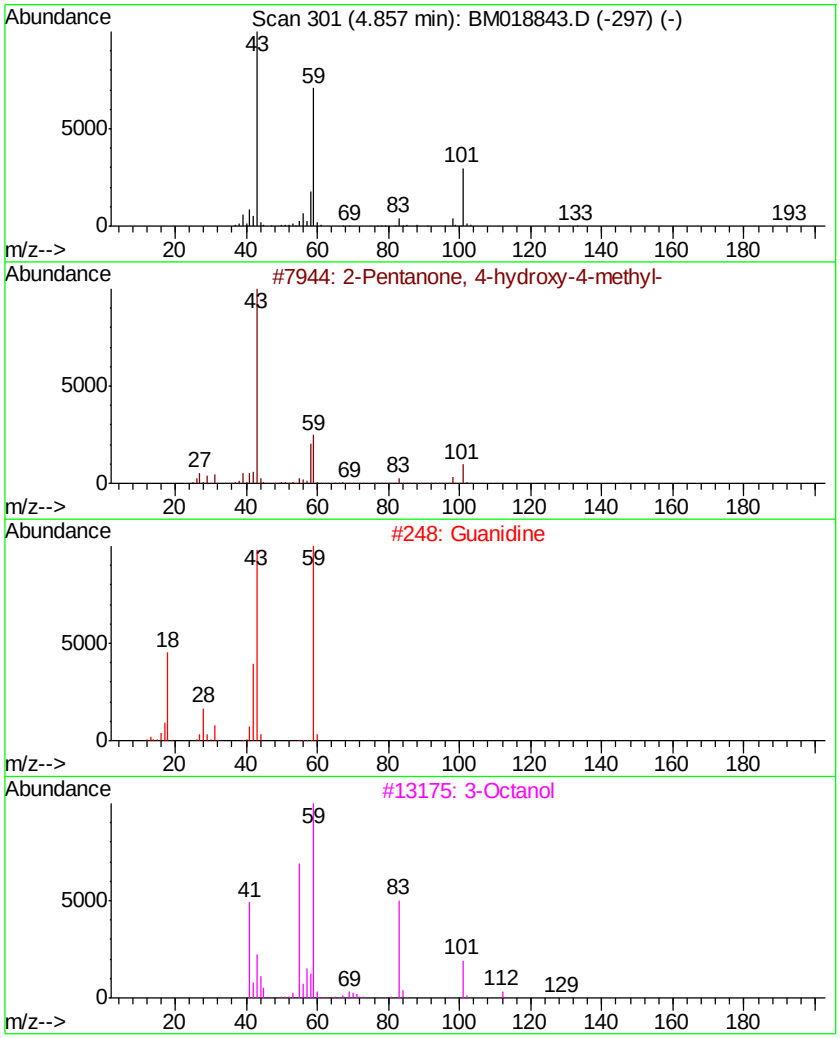
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

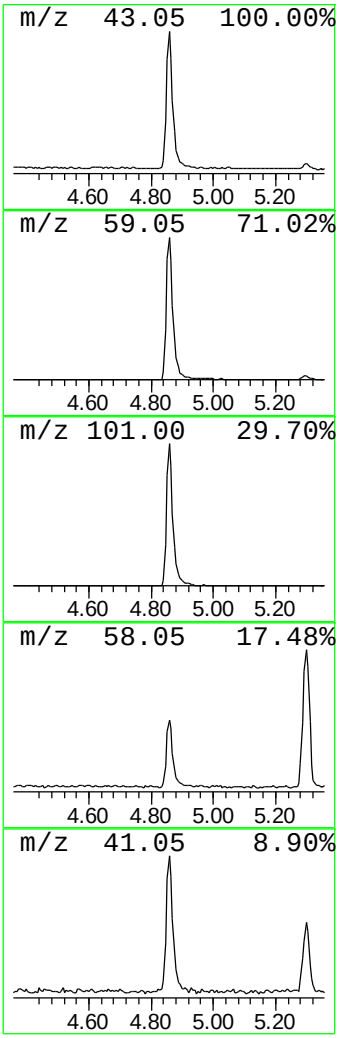
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.86 | 4.72 ng | 486694 | 1,4-Dichlorobenzene-d4 | 7.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Guanidine | 59 | CH5N3 | 000113-00-8 | 37 |
| 3 | 3-Octanol | 130 | C8H18O | 020296-29-1 | 33 |
| 4 | 4-Methoxy-1-pentene | 100 | C6H12O | 098386-09-5 | 27 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

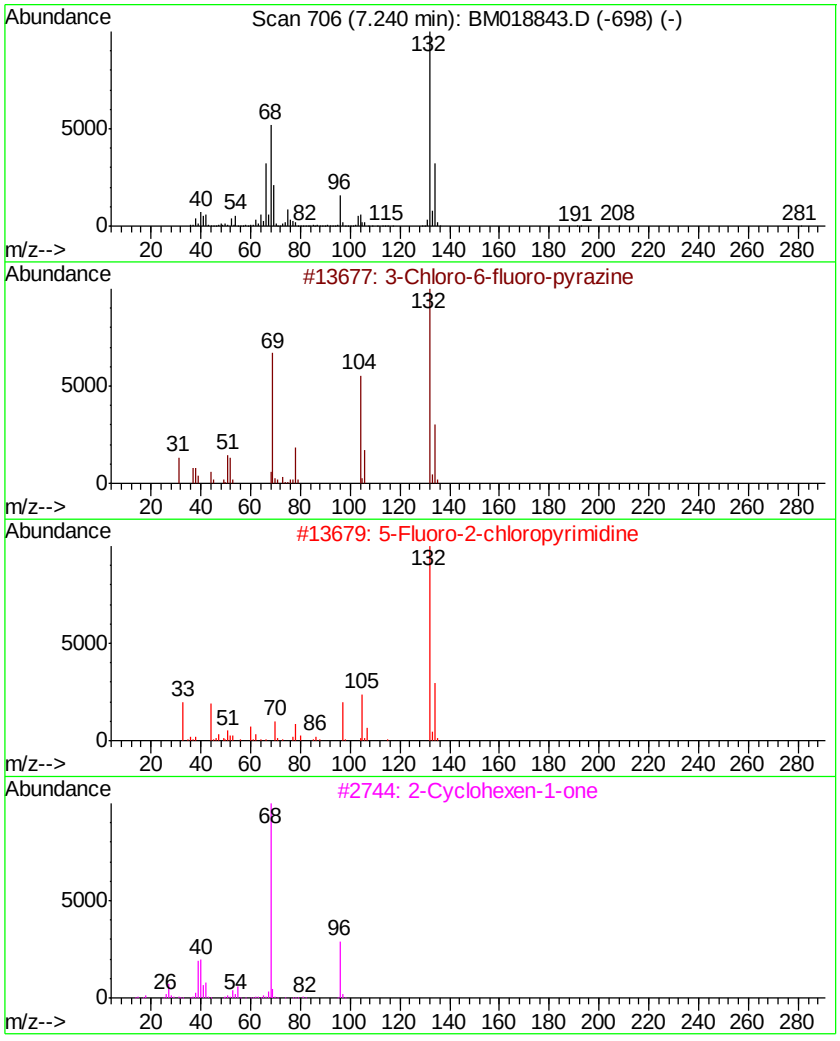
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

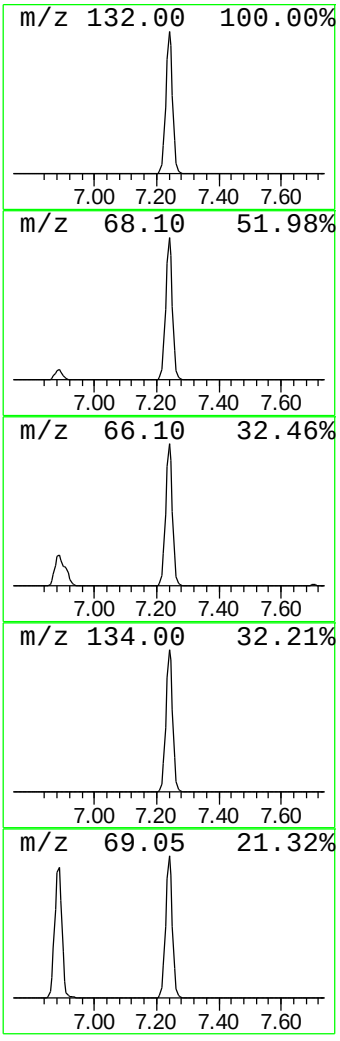
**********

Peak Number 2 unknown7.24 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.24 | 118.80 ng | 12238300 | 1,4-Dichlorobenzene-d4 | 7.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | 2-Cyclohexen-1-one | 96 | C6H8O | 000930-68-7 | 11 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

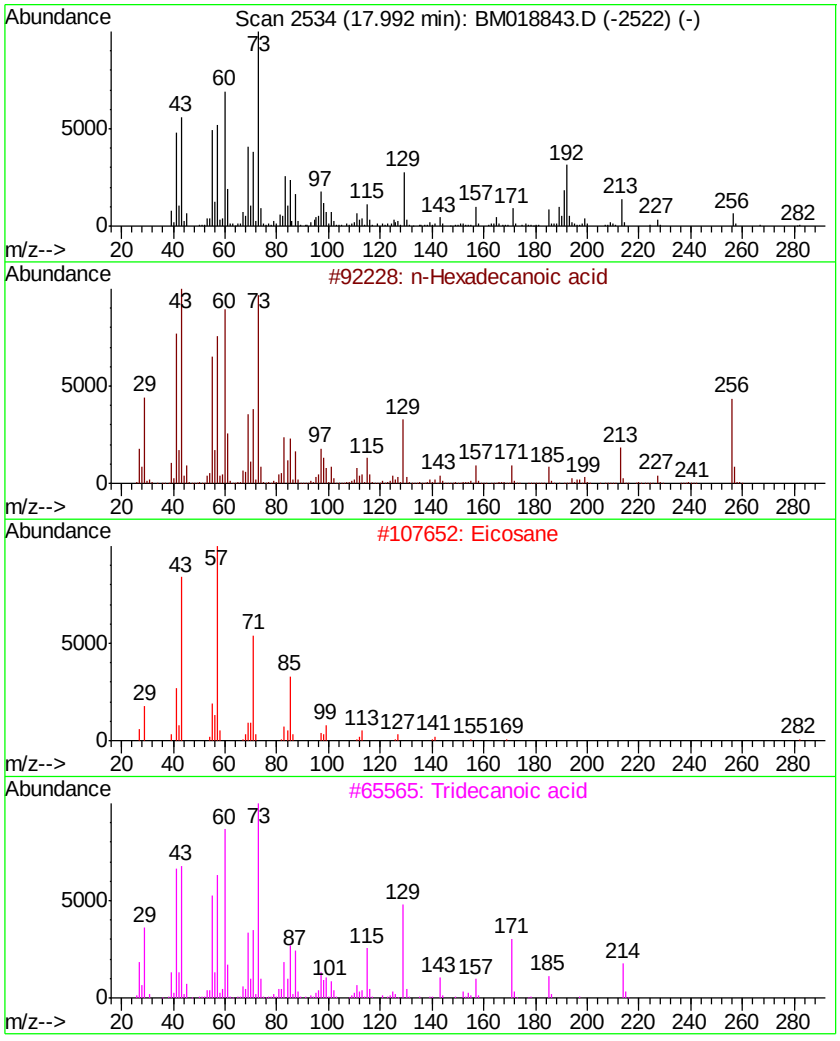
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

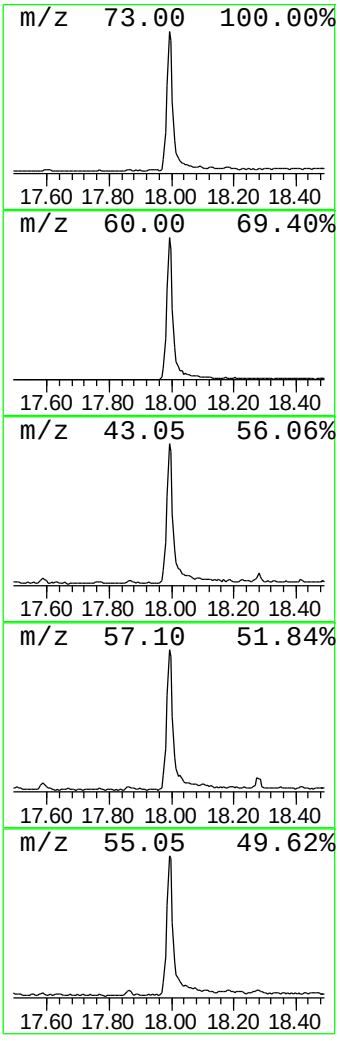
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.99 | 6.46 ng | 1412750 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 60 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 50 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 35 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

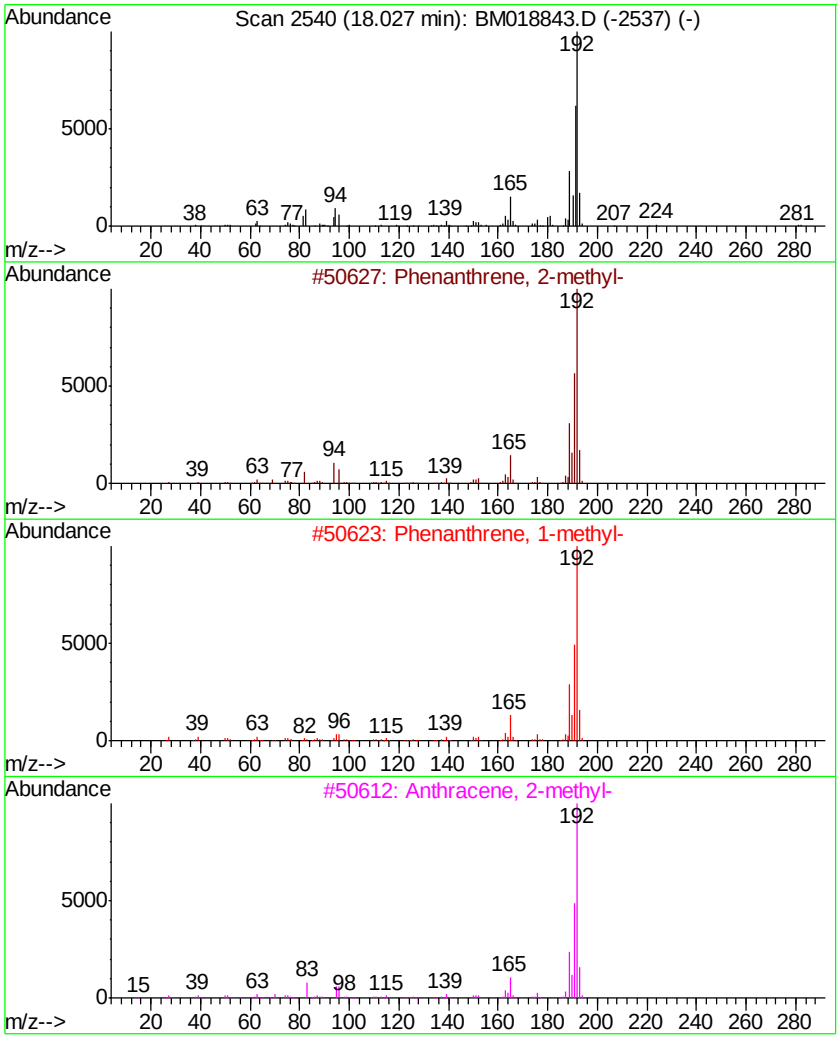
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

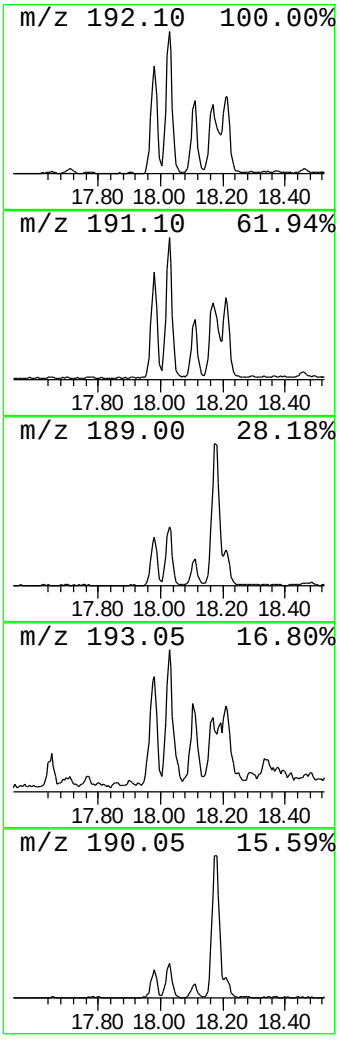
**********

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.03 | 2.90 ng | 632897 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

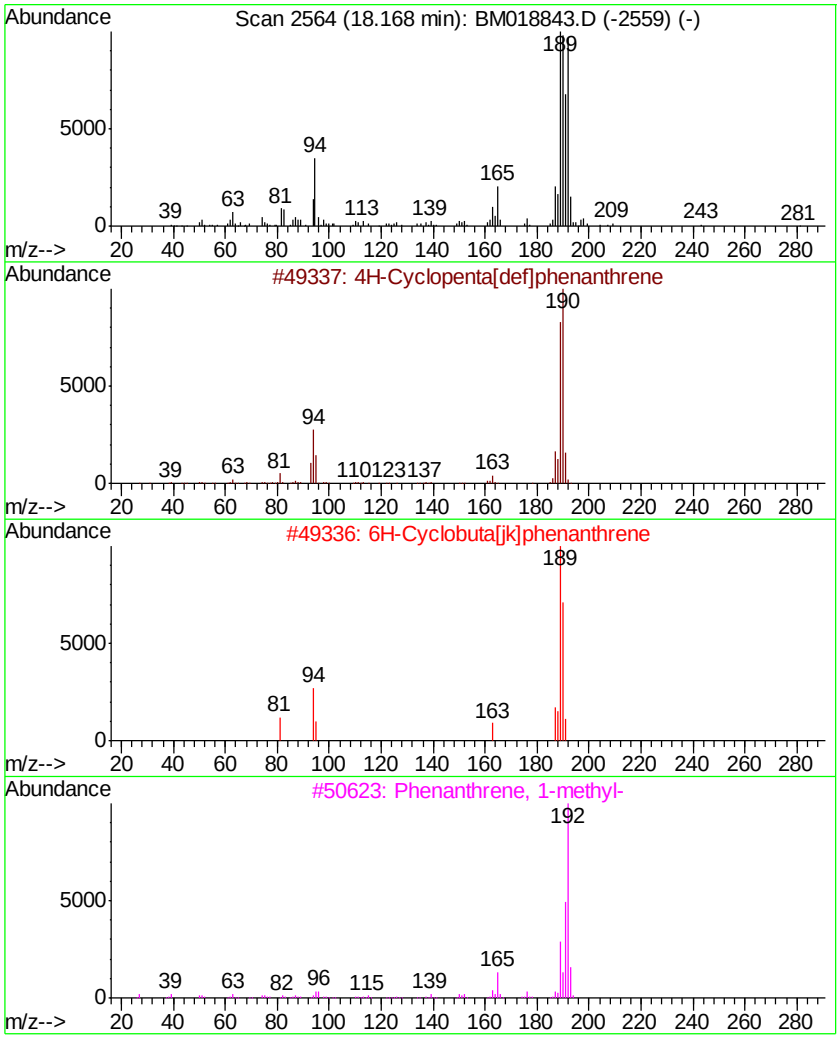
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

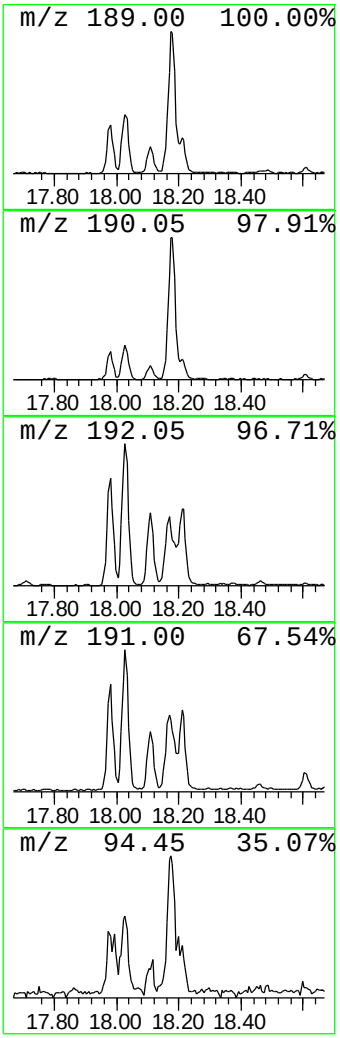
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.17 | 2.90 ng | 634836 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 25 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 18 |
| 5 | Propyne, 1,3-diphenyl- | 192 | C15H12 | 004980-70-5 | 18 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
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Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

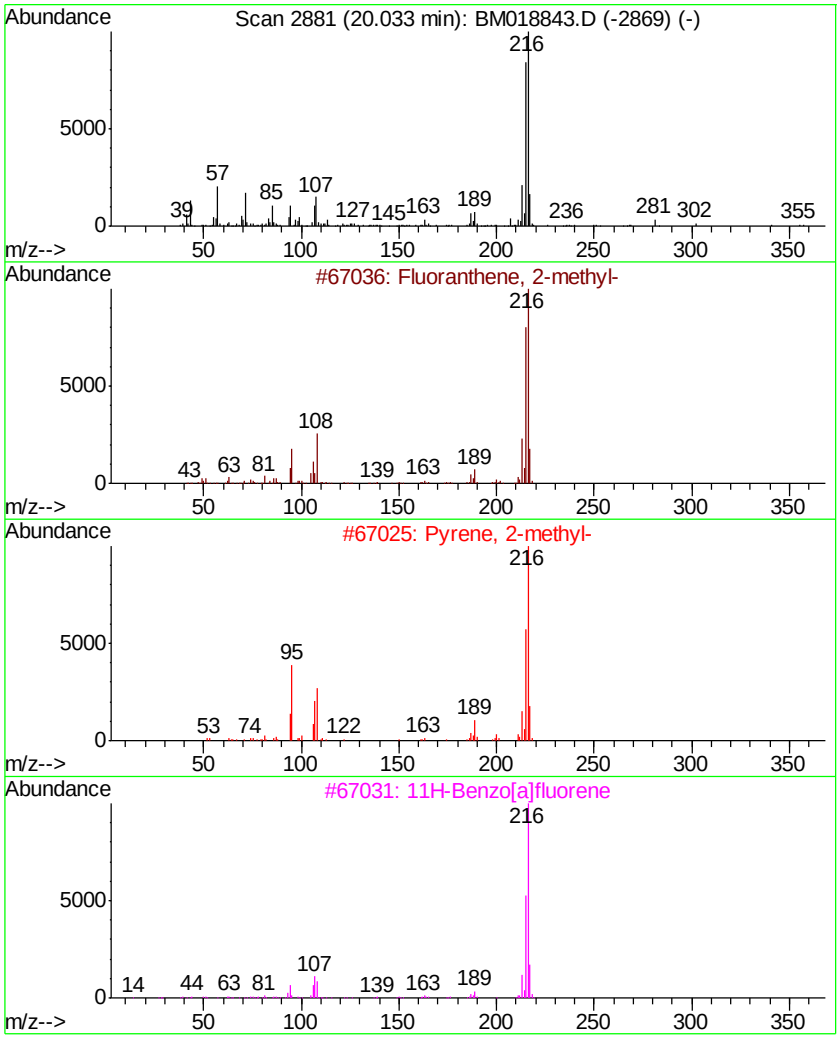
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

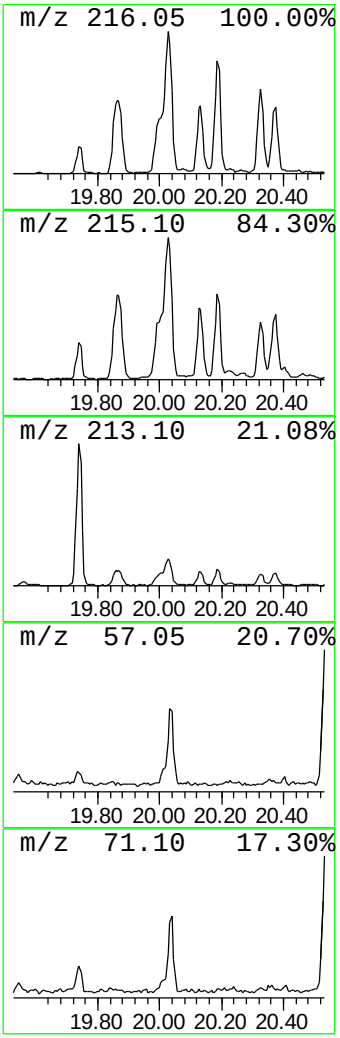
**********

Peak Number 7 Fluoranthene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.03 | 2.31 ng | 697085 | Chrysene-d12 | 21.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
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Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

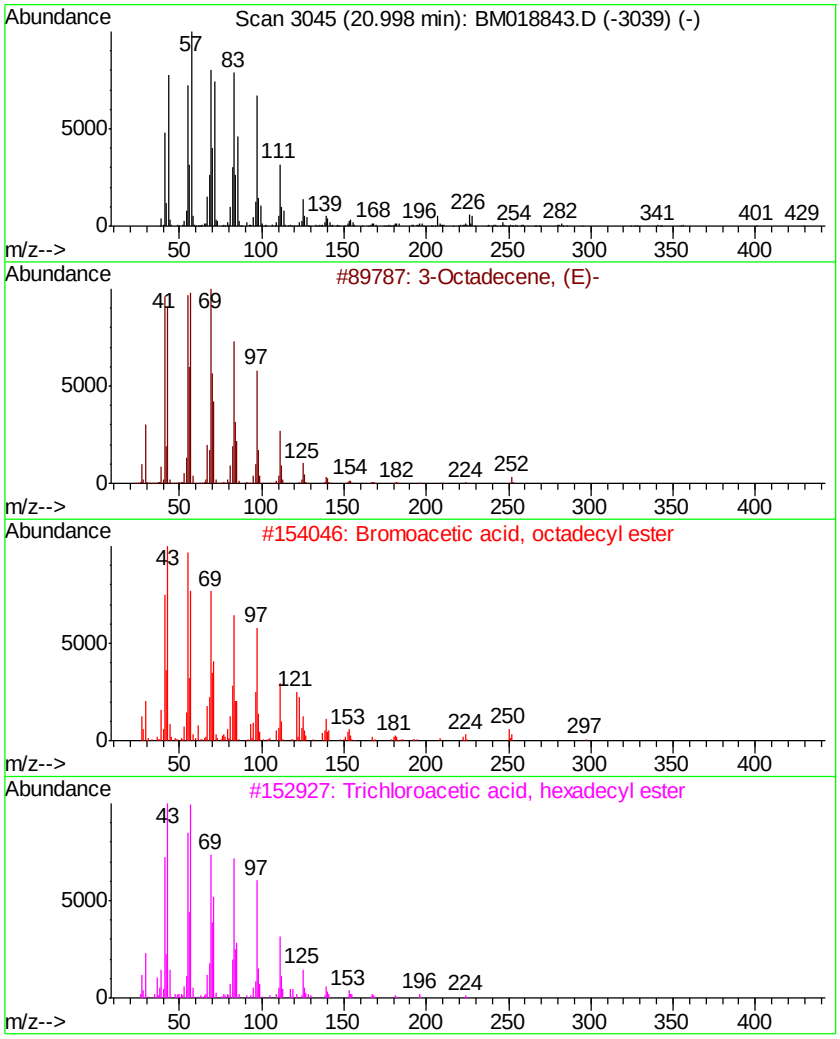
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

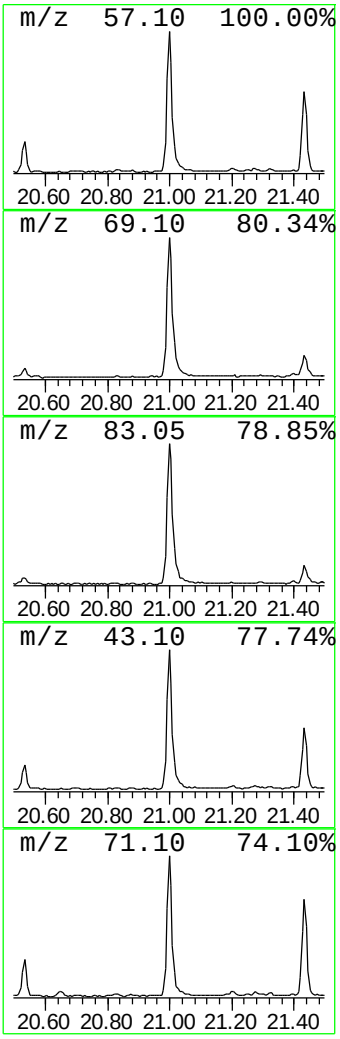
**********

Peak Number 8 3-Octadecene, (E)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.00 | 5.98 ng | 1806970 | Chrysene-d12 | 21.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Octadecene, (E)- | 252 | C18H36 | 007206-19-1 | 93 |
| 2 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 87 |
| 3 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 83 |
| 4 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 83 |
| 5 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 81 |



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Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.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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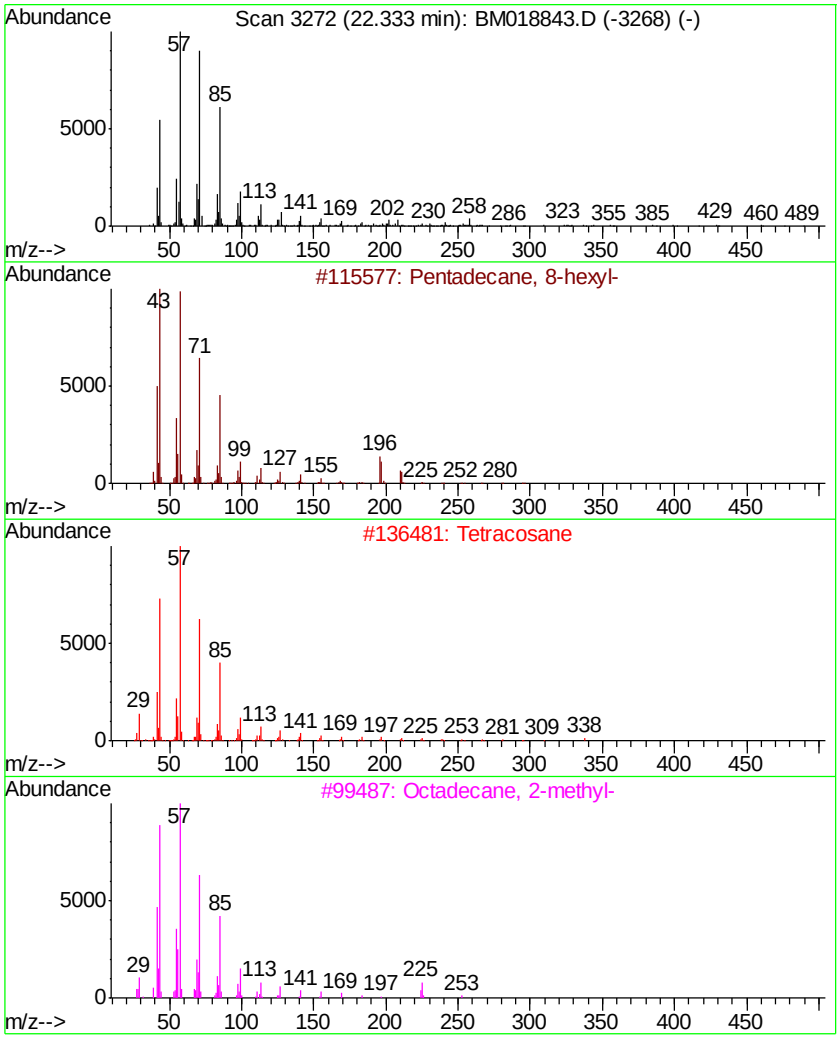
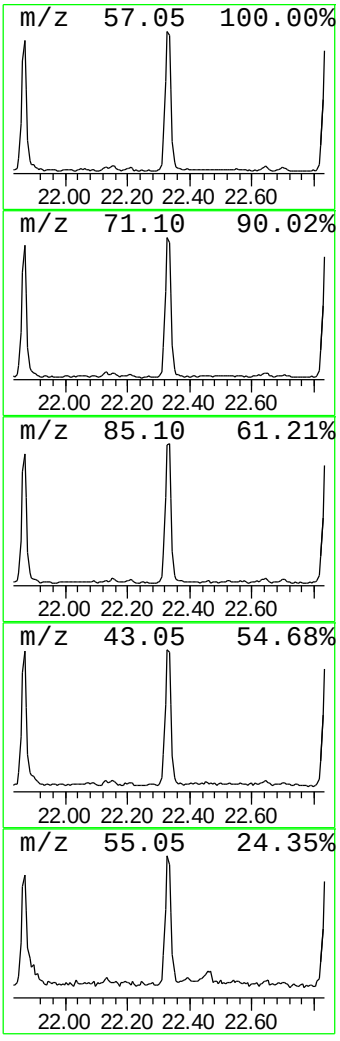
Peak Number 9 Pentadecane, 8-hexyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.33 | 2.05 ng | 621271 | Chrysene-d12 | 21.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 90 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 87 |
| 3 | Octadecane, 2-methyl- | 268 | C19H40 | 001560-88-9 | 86 |
| 4 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 86 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM021819\
Data File : BM018843.D
Acq On : 18 Feb 2019 18:00
Operator : JU/SJ
Sample : K1518-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP-MH-C05

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.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 |
| 2-Pentanone, 4-hy... | 4.86 | 4.7 | ng | 486694 | 1 | 7.70 | 2060320 | 20.0 |
| unknown7.24 | 7.24 | 118.8 | ng | 12238300 | 1 | 7.70 | 2060320 | 20.0 |
| n-Hexadecanoic acid | 17.99 | 6.5 | ng | 1412750 | 4 | 17.10 | 4370820 | 20.0 |
| Phenanthrene, 2-m... | 18.03 | 2.9 | ng | 632897 | 4 | 17.10 | 4370820 | 20.0 |
| 4H-Cyclopenta[def... | 18.17 | 2.9 | ng | 634836 | 4 | 17.10 | 4370820 | 20.0 |
| Fluoranthene, 2-m... | 20.03 | 2.3 | ng | 697085 | 5 | 21.30 | 6047880 | 20.0 |
| 3-Octadecene, (E)- | 21.00 | 6.0 | ng | 1806970 | 5 | 21.30 | 6047880 | 20.0 |
| Pentadecane, 8-he... | 22.33 | 2.0 | ng | 621271 | 5 | 21.30 | 6047880 | 20.0 |