LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

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_P\Methods\8270E-BP030522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP009416.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.058 | 8 | 12 | 23 | rVB | 212840 | 333779 | 1.71% | 0.176% |
| 2 | 5.422 | 407 | 414 | 434 | rVB | 1702975 | 2912296 | 14.90% | 1.540% |
| 3 | 7.010 | 677 | 684 | 698 | rBV | 1521475 | 2846653 | 14.56% | 1.505% |
| 4 | 7.810 | 813 | 820 | 829 | rBV | 1074137 | 1847847 | 9.45% | 0.977% |
| 5 | 8.963 | 1009 | 1016 | 1029 | rBV | 1016162 | 1895735 | 9.70% | 1.002% |
| 6 | 10.604 | 1287 | 1295 | 1311 | rBV | 1394100 | 2669695 | 13.66% | 1.412% |
| 7 | 12.393 | 1591 | 1599 | 1611 | rBV2 | 66548 | 233942 | 1.20% | 0.124% |
| 8 | 13.075 | 1708 | 1715 | 1730 | rBV | 2791616 | 4525700 | 23.15% | 2.393% |
| 9 | 14.175 | 1896 | 1902 | 1915 | rVB | 1329612 | 2166806 | 11.08% | 1.146% |
| 10 | 14.457 | 1942 | 1950 | 1956 | rBV | 2187555 | 3621448 | 18.53% | 1.915% |
| 11 | 14.857 | 2012 | 2018 | 2028 | rBV | 270964 | 482533 | 2.47% | 0.255% |
| 12 | 15.510 | 2124 | 2129 | 2142 | rVB | 302854 | 582628 | 2.98% | 0.308% |
| 13 | 15.698 | 2155 | 2161 | 2174 | rVB3 | 286128 | 590974 | 3.02% | 0.312% |
| 14 | 15.804 | 2174 | 2179 | 2191 | rVB2 | 167160 | 344525 | 1.76% | 0.182% |
| 15 | 15.951 | 2198 | 2204 | 2212 | rBV | 2572643 | 4201684 | 21.50% | 2.222% |
| 16 | 16.057 | 2217 | 2222 | 2234 | rVB | 349342 | 692003 | 3.54% | 0.366% |
| 17 | 16.186 | 2239 | 2244 | 2252 | rVB3 | 145132 | 261665 | 1.34% | 0.138% |
| 18 | 16.869 | 2354 | 2360 | 2366 | rVB | 577985 | 935221 | 4.78% | 0.495% |
| 19 | 17.033 | 2383 | 2388 | 2398 | rVB | 328241 | 568938 | 2.91% | 0.301% |
| 20 | 17.216 | 2413 | 2419 | 2422 | rBV | 2785549 | 4229712 | 21.64% | 2.236% |
| 21 | 17.257 | 2422 | 2426 | 2433 | rVV | 7193503 | 11149366 | 57.04% | 5.895% |
| 22 | 17.351 | 2436 | 2442 | 2447 | rVV | 1533838 | 2410129 | 12.33% | 1.274% |
| 23 | 17.404 | 2448 | 2451 | 2461 | rVB3 | 157692 | 305046 | 1.56% | 0.161% |
| 24 | 17.628 | 2481 | 2489 | 2502 | rBV | 736863 | 1443842 | 7.39% | 0.763% |
| 25 | 17.739 | 2504 | 2508 | 2513 | rVV2 | 196024 | 326239 | 1.67% | 0.172% |
| 26 | 17.798 | 2515 | 2518 | 2526 | rVB6 | 154614 | 275015 | 1.41% | 0.145% |
| 27 | 18.092 | 2563 | 2568 | 2570 | rBV | 537945 | 800550 | 4.10% | 0.423% |
| 28 | 18.128 | 2570 | 2574 | 2581 | rVB2 | 1477254 | 2505836 | 12.82% | 1.325% |
| 29 | 18.216 | 2586 | 2589 | 2593 | rVB | 238444 | 320661 | 1.64% | 0.170% |
| 30 | 18.280 | 2594 | 2600 | 2603 | rBV2 | 918383 | 1611725 | 8.25% | 0.852% |
| 31 | 18.575 | 2646 | 2650 | 2653 | rBV | 543629 | 730618 | 3.74% | 0.386% |
| 32 | 18.616 | 2653 | 2657 | 2663 | rVB | 1265638 | 1722485 | 8.81% | 0.911% |
| 33 | 18.780 | 2681 | 2685 | 2689 | rBV3 | 292615 | 409345 | 2.09% | 0.216% |
| 34 | 18.986 | 2716 | 2720 | 2724 | rBV3 | 349482 | 564333 | 2.89% | 0.298% |
| 35 | 19.116 | 2738 | 2742 | 2749 | rBV | 899541 | 1338832 | 6.85% | 0.708% |
| 36 | 19.239 | 2757 | 2763 | 2770 | rBV | 13889639 | 19547237 | 100.00% | 10.336% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

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_P\Methods\8270E-BP030522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 19.380 | 2781 | 2787 | 2792 | rBV | 1497955 | 2512563 | 12.85% | 1.329% |
| 38 | 19.592 | 2813 | 2823 | 2830 | rBV | 10780495 | 18144226 | 92.82% | 9.594% |
| 39 | 19.663 | 2832 | 2835 | 2840 | rVB | 378247 | 555791 | 2.84% | 0.294% |
| 40 | 19.792 | 2849 | 2857 | 2861 | rBV2 | 4206901 | 6478880 | 33.14% | 3.426% |
| 41 | 19.916 | 2872 | 2878 | 2883 | rBV2 | 586216 | 1484550 | 7.59% | 0.785% |
| 42 | 20.810 | 3026 | 3030 | 3035 | rBV | 1767755 | 2459945 | 12.58% | 1.301% |
| 43 | 20.974 | 3053 | 3058 | 3062 | rBV2 | 996192 | 1901969 | 9.73% | 1.006% |
| 44 | 21.016 | 3062 | 3065 | 3068 | rVV2 | 1092211 | 1466864 | 7.50% | 0.776% |
| 45 | 21.057 | 3068 | 3072 | 3076 | rVV2 | 1219334 | 2160924 | 11.05% | 1.143% |
| 46 | 21.104 | 3077 | 3080 | 3090 | rVB | 1738287 | 2611017 | 13.36% | 1.381% |
| 47 | 21.316 | 3111 | 3116 | 3121 | rBV3 | 7450658 | 14398328 | 73.66% | 7.613% |
| 48 | 21.363 | 3121 | 3124 | 3134 | rVB | 5751461 | 8461140 | 43.29% | 4.474% |
| 49 | 21.451 | 3135 | 3139 | 3143 | rBV | 2290072 | 3342466 | 17.10% | 1.767% |
| 50 | 21.539 | 3151 | 3154 | 3159 | rVB | 980680 | 1277426 | 6.54% | 0.675% |
| 51 | 23.015 | 3398 | 3405 | 3410 | rBV2 | 5190518 | 13488702 | 69.01% | 7.132% |
| 52 | 23.533 | 3488 | 3493 | 3502 | rVB | 2862302 | 6393668 | 32.71% | 3.381% |
| 53 | 23.639 | 3505 | 3511 | 3520 | rVB | 4320465 | 8502225 | 43.50% | 4.496% |
| 54 | 23.745 | 3523 | 3529 | 3534 | rBV2 | 2200090 | 4650279 | 23.79% | 2.459% |
| 55 | 26.262 | 3952 | 3957 | 3971 | rVB2 | 2590609 | 7428060 | 38.00% | 3.928% |

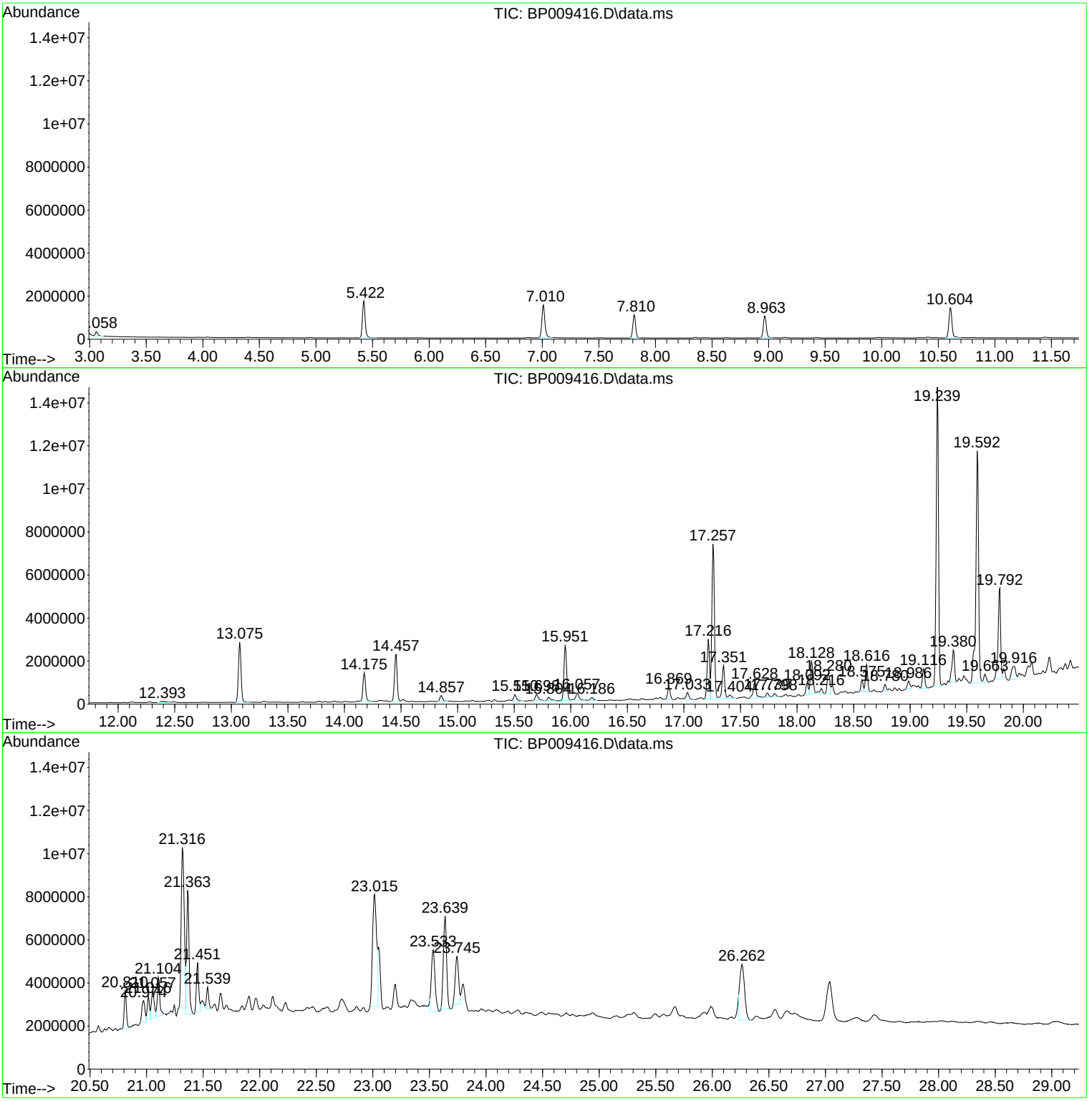
Sum of corrected areas: 189124066

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

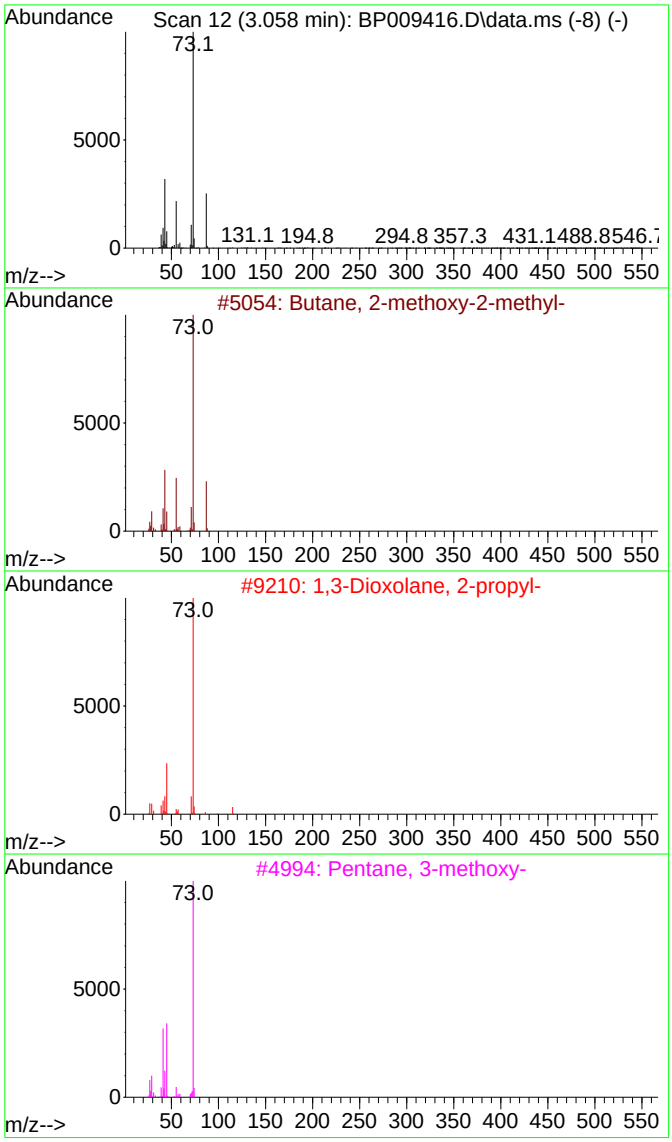
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

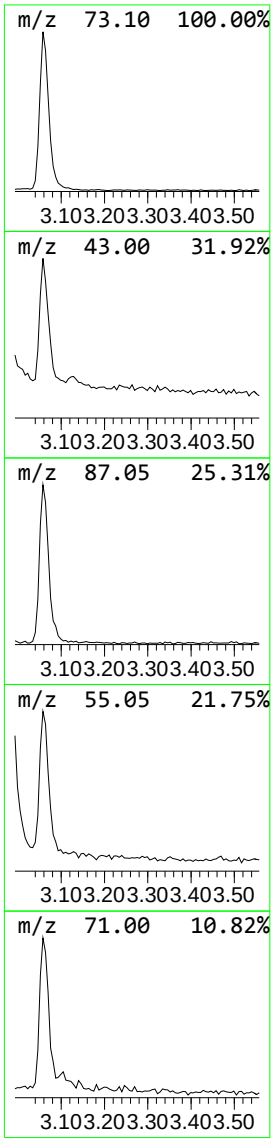
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.058 | 3.61 ng | 333779 | 1,4-Dichlorobenzene-d4 | 7.810 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 1,3-Dioxolane, 2-propyl- | 116 | C6H12O2 | 003390-13-4 | 23 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 16 |
| 5 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

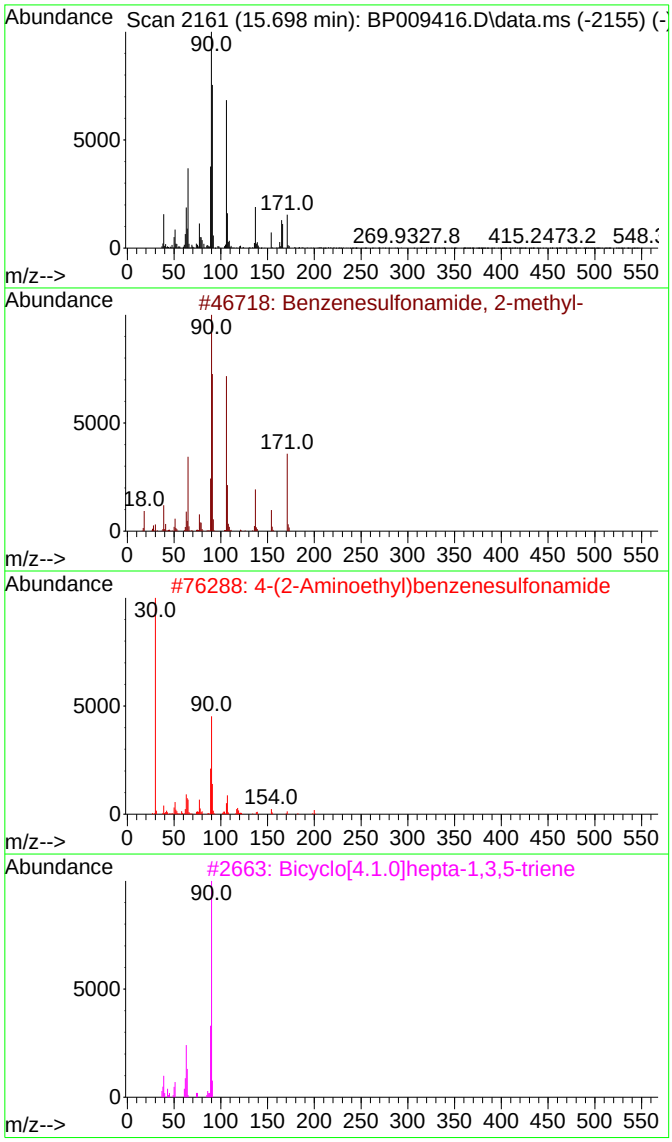
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

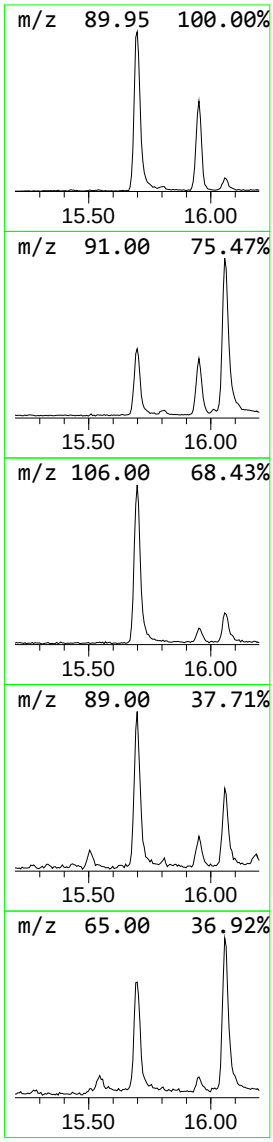
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Benzenesulfonamide, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.698 | 3.26 ng | 590974 | Acenaphthene-d10 | 14.457 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 2-methyl- | 171 | C7H9NO2S | 000088-19-7 | 93 |
| 2 | 4-(2-Aminoethyl)benzenesulfonamide | 200 | C8H12N2O2S | 035303-76-5 | 59 |
| 3 | Bicyclo[4.1.0]hepta-1,3,5-triene | 90 | C7H6 | 004646-69-9 | 53 |
| 4 | 4-(2-Hydroxyethyl)benzenesulfona... | 201 | C8H11NO3S | 000829-71-0 | 50 |
| 5 | Gluconic acid | 196 | C6H12O7 | 000526-95-4 | 40 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

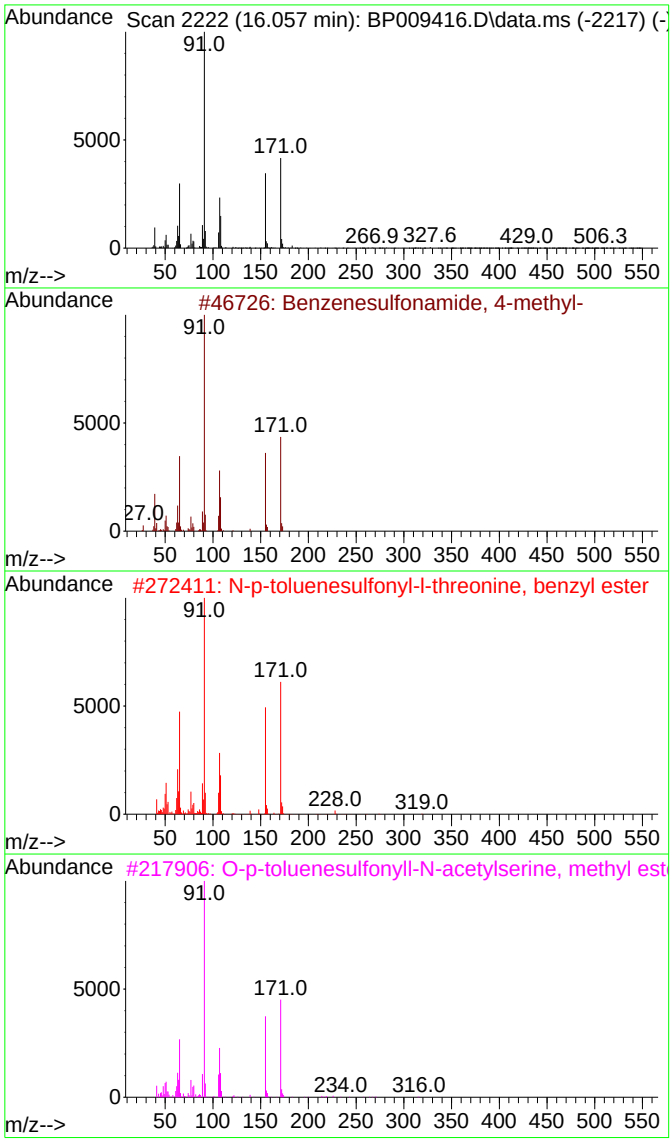
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

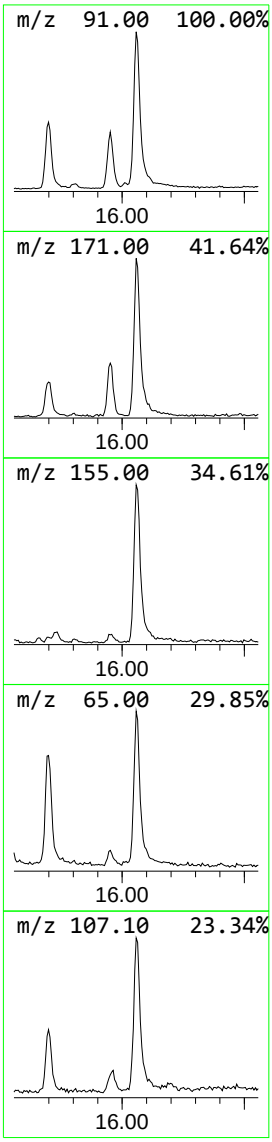
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Benzenesulfonamide, 4-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.057 | 3.27 ng | 692003 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 4-methyl- | 171 | C7H9NO2S | 000070-55-3 | 98 |
| 2 | N-p-toluenesulfonyl-l-threonine,... | 363 | C18H21NO5S | 1000130-34-4 | 90 |
| 3 | O-p-toluenesulfonyll-N-acetylser... | 315 | C13H17NO6S | 1000126-44-8 | 90 |
| 4 | N-[2-Acetamidoethanethio]-p-toly... | 288 | C11H16N2O3S2 | 025116-54-5 | 74 |
| 5 | Tolbutamide | 270 | C12H18N2O3S | 000064-77-7 | 70 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

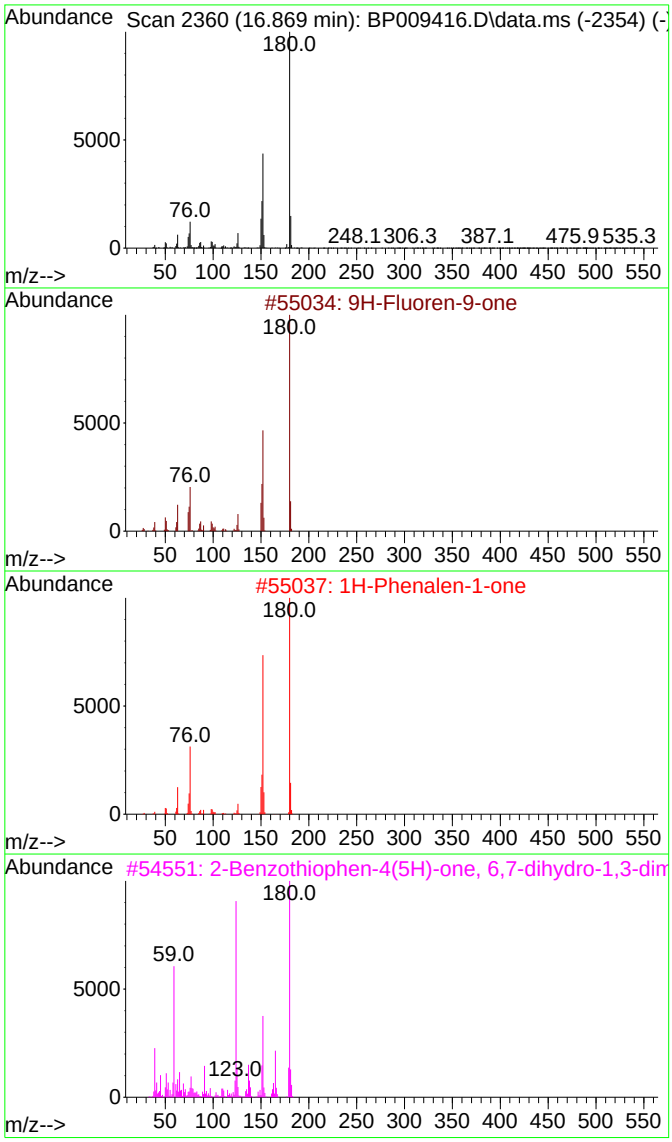
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

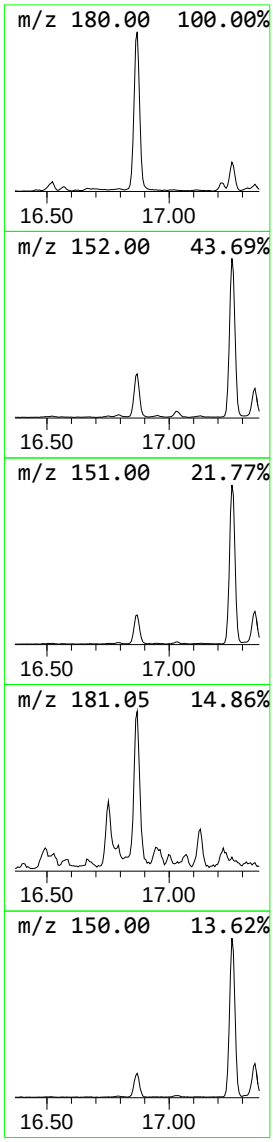
**********

Peak Number 4 9H-Fluoren-9-one Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.869 | 4.42 ng | 935221 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 96 |
| 2 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 78 |
| 3 | 2-Benzothiophen-4(5H)-one, 6,7-d... | 180 | C10H12OS | 1000338-11-9 | 50 |
| 4 | 1,1'-Biphenyl, 4-ethenyl- | 180 | C14H12 | 002350-89-2 | 50 |
| 5 | 5-Methoxy-4-methyl-2,1,3-benzoth... | 180 | C8H8N2OS | 089976-68-1 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

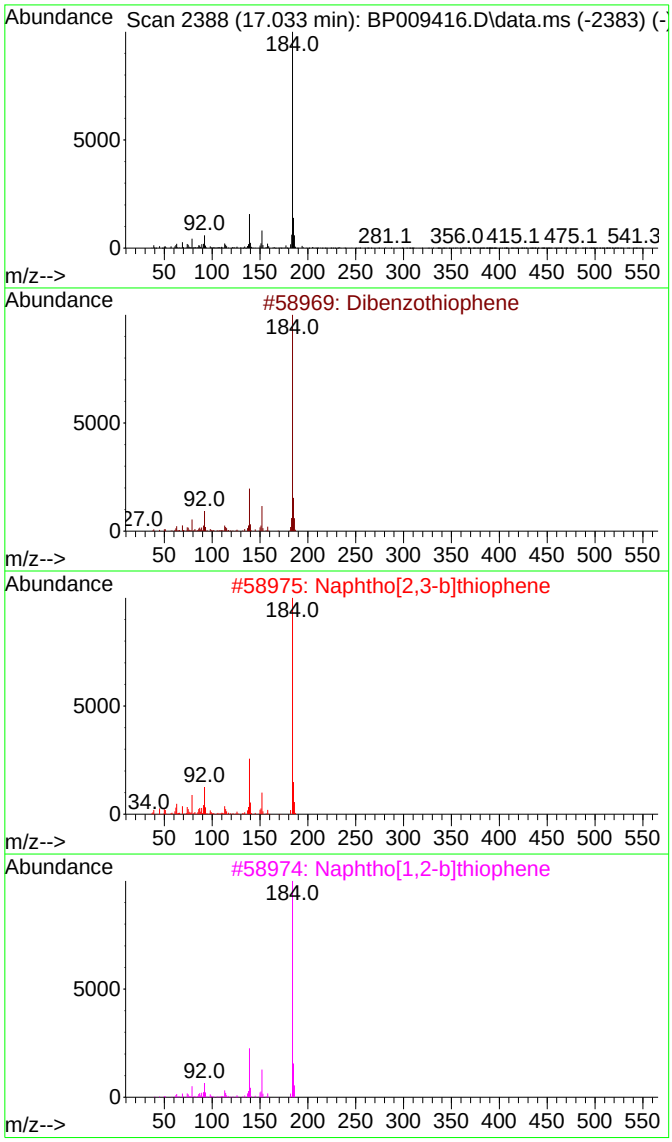
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

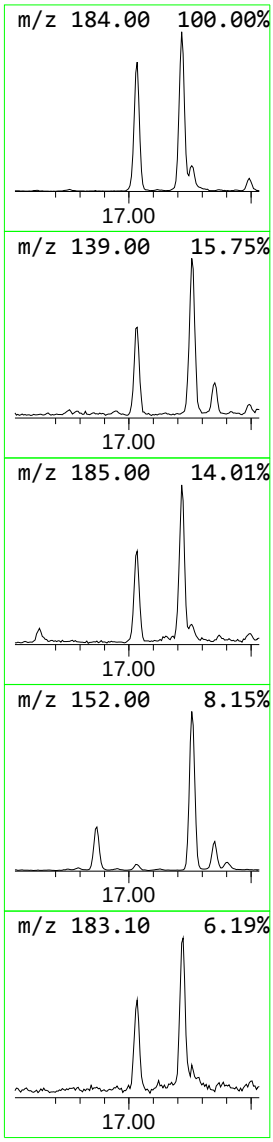
**********

Peak Number 5 Dibenzothiophene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.034 | 2.69 ng | 568938 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 94 |
| 3 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 94 |
| 4 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 94 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

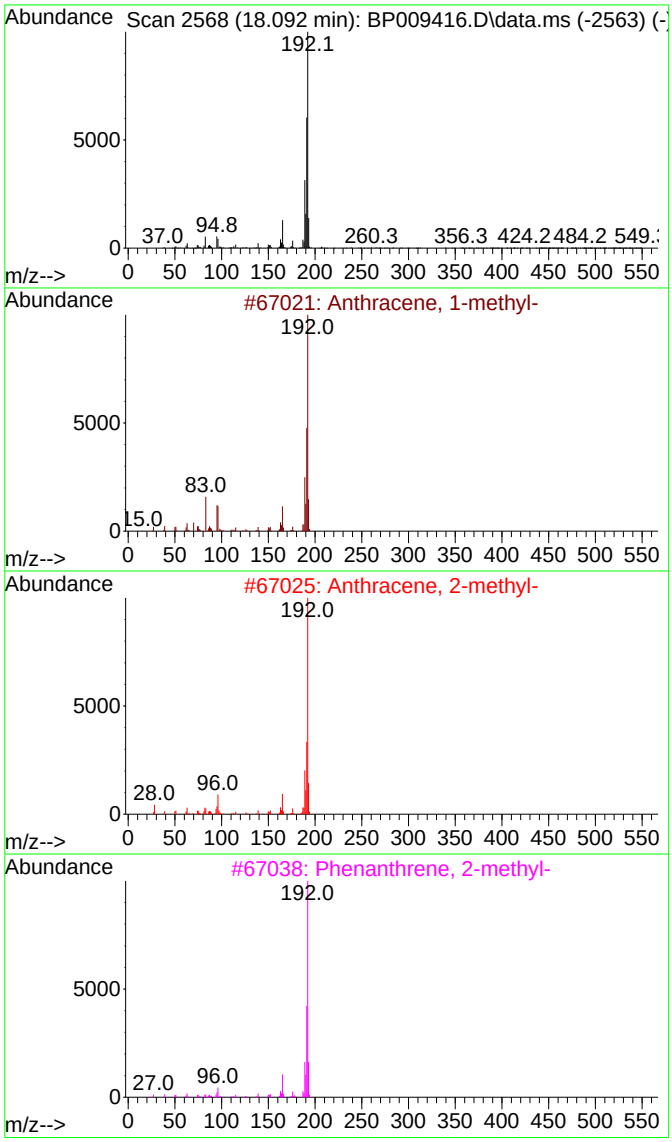
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

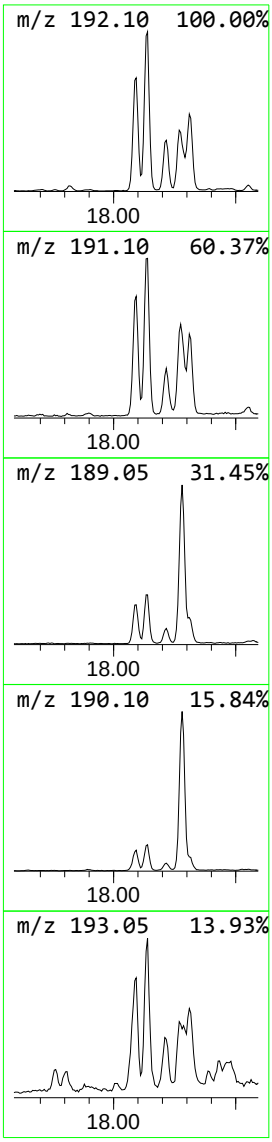
**********

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.092 | 3.79 ng | 800550 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

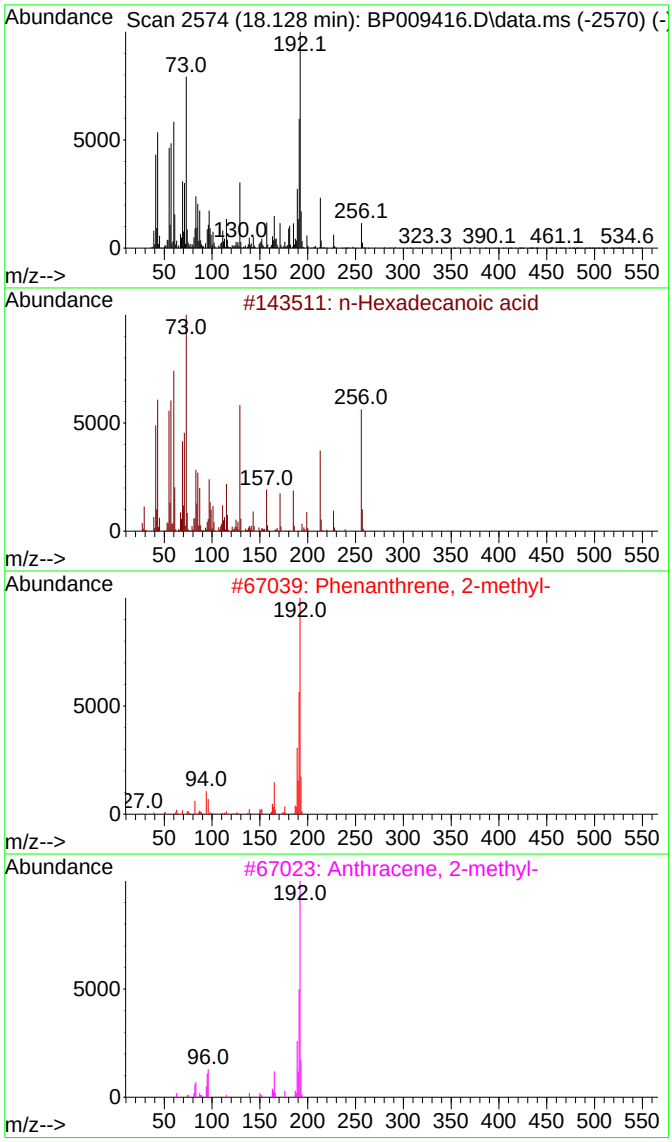
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

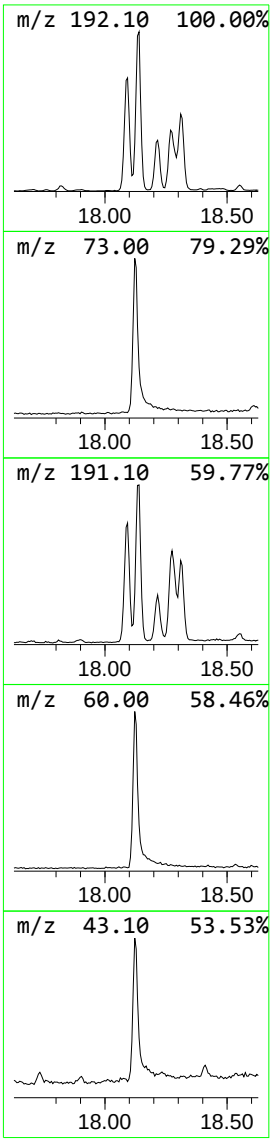
**********

Peak Number 7 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.128 | 11.85 ng | 2505840 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 87 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 86 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

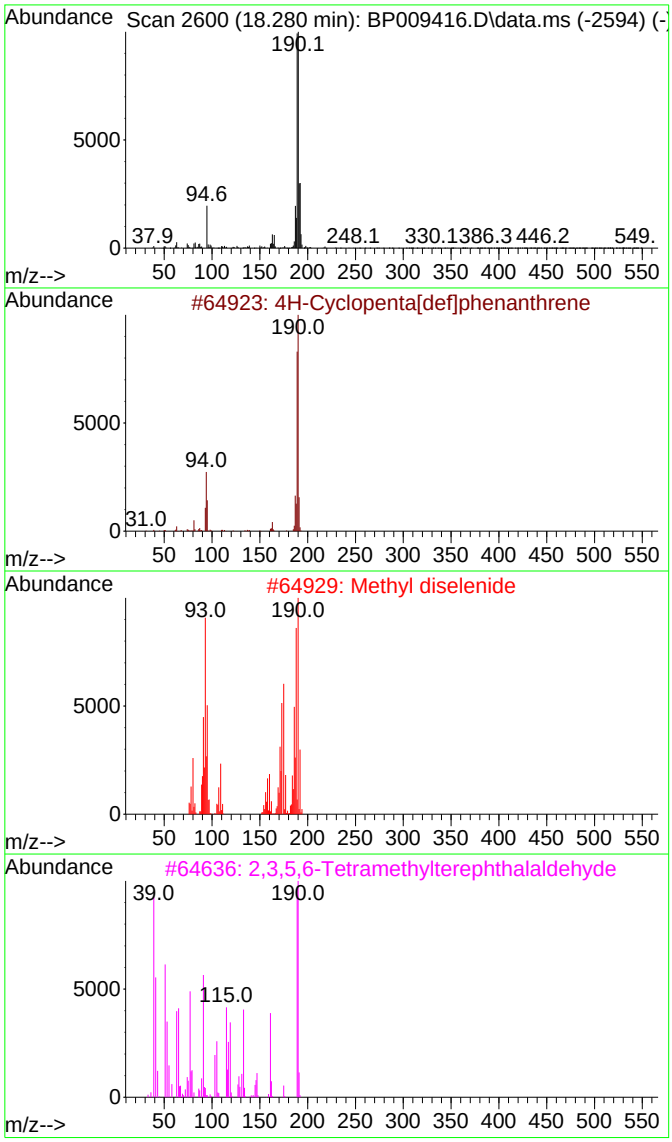
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

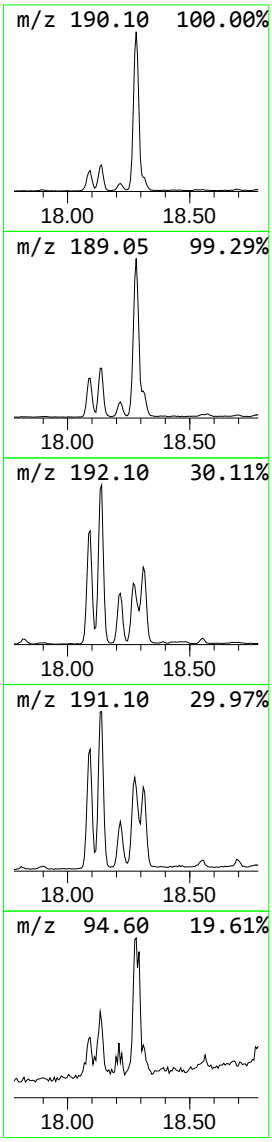
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.281 | 7.62 ng | 1611730 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 2 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 55 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |
| 5 | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4 | 004923-55-1 | 25 |



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Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

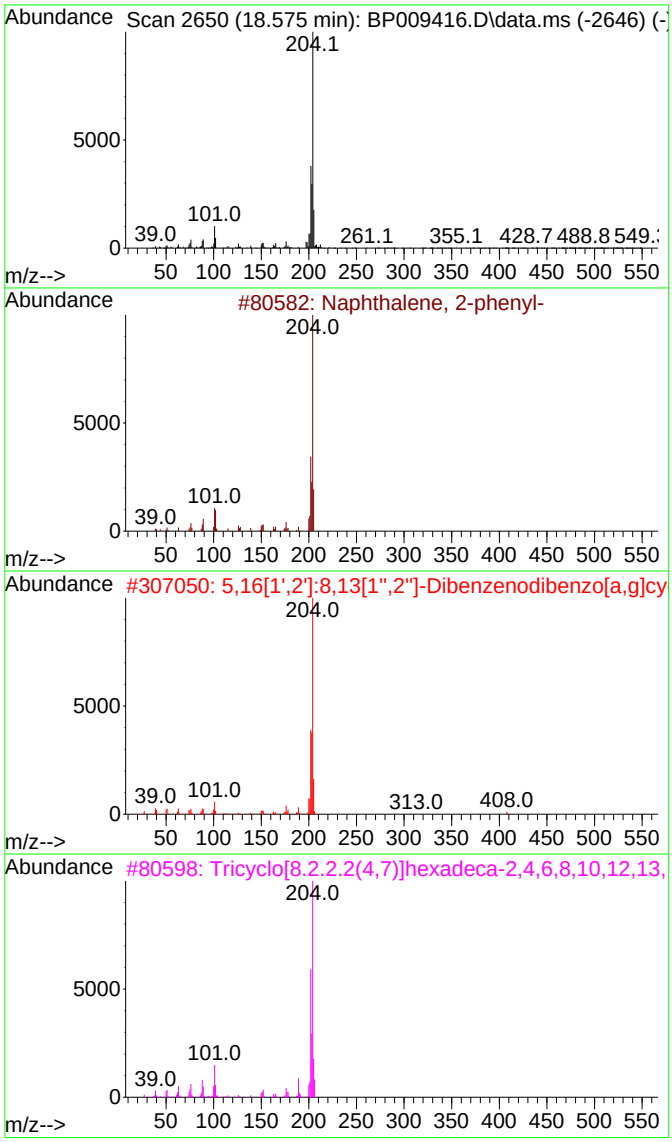
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

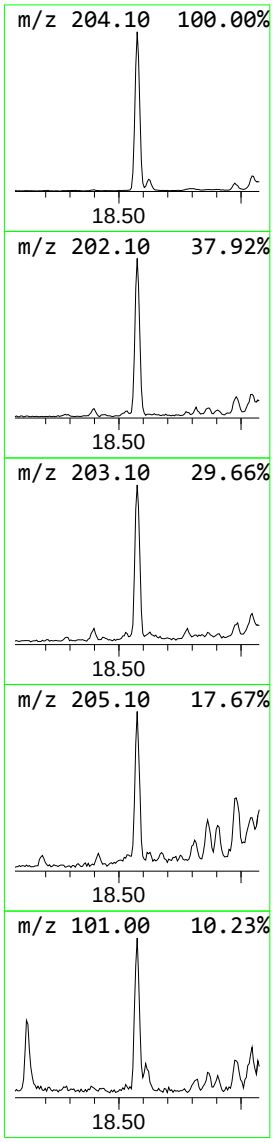
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.575 | 3.45 ng | 730618 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 89 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 3 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 64 |
| 4 | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12 | 013141-45-2 | 58 |
| 5 | 1,4-Ethenoanthracene, 1,4-dihydro- | 204 | C16H12 | 027765-96-4 | 53 |



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Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

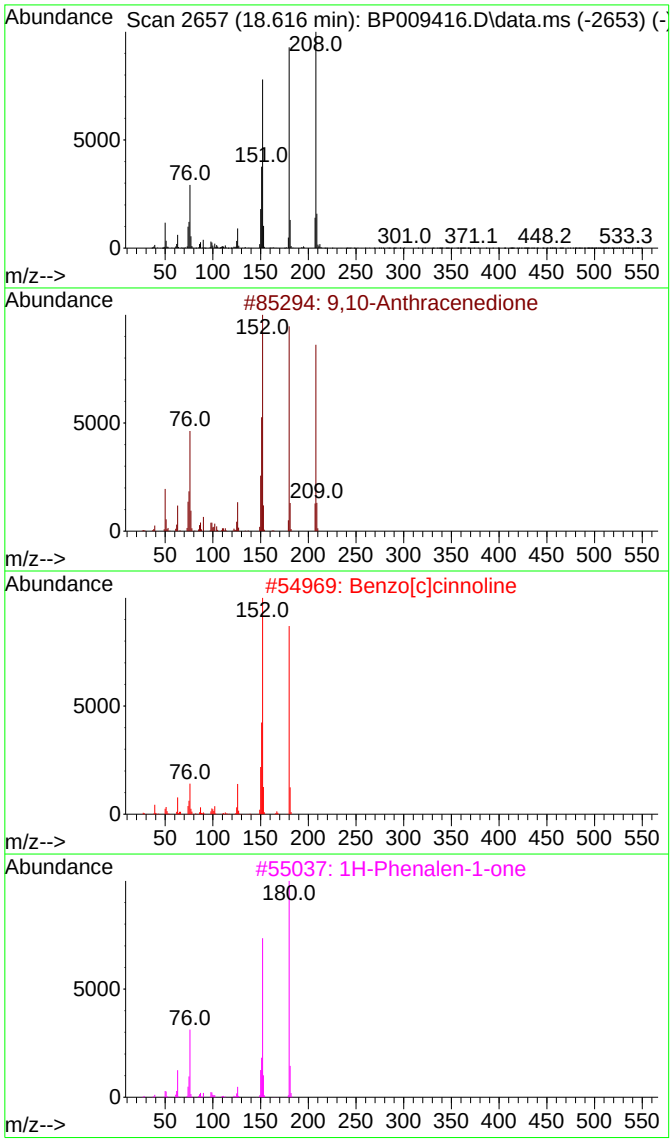
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

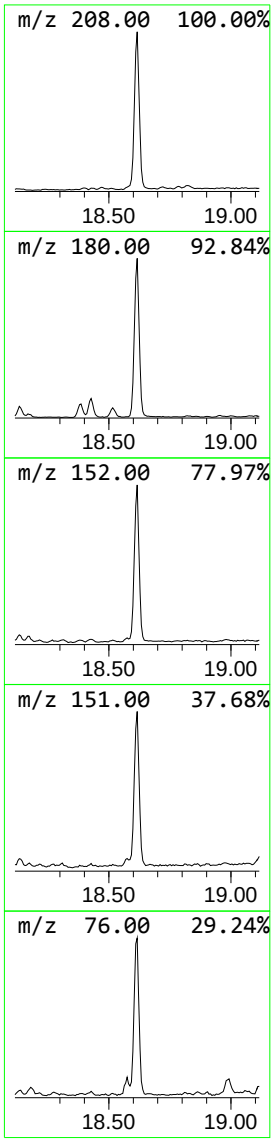
**********

Peak Number 10 9,10-Anthracenedione Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.616 | 8.14 ng | 1722490 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98 |
| 2 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 83 |
| 3 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 83 |
| 4 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 70 |
| 5 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 62 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

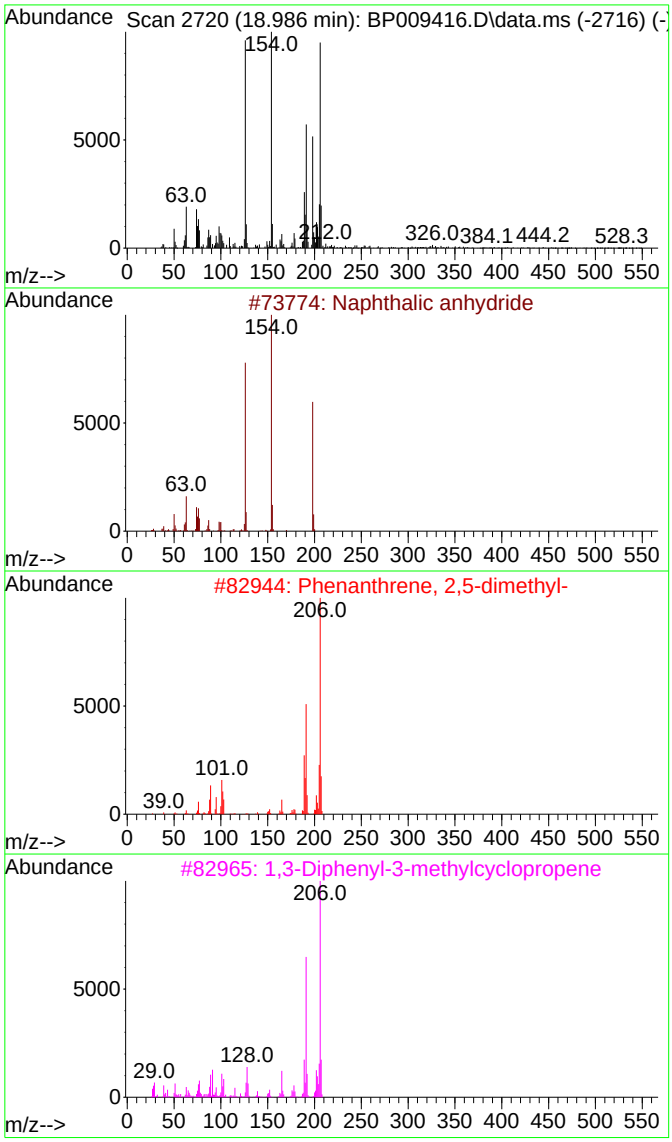
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

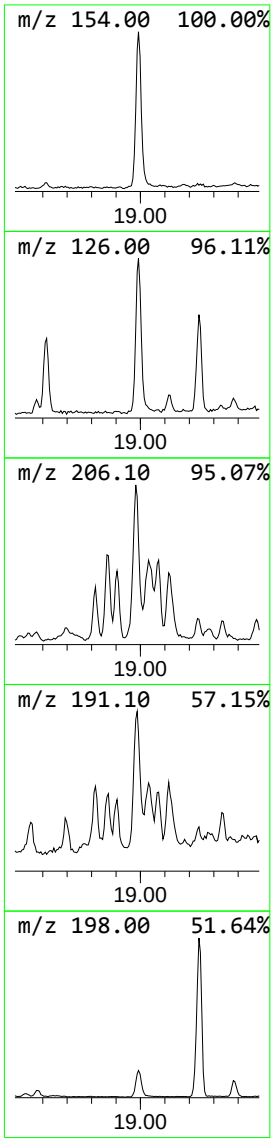
**********

Peak Number 11 Naphthalic anhydride Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.986 | 2.67 ng | 564333 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 95 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 60 |
| 3 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 52 |
| 4 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 46 |
| 5 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 46 |



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Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

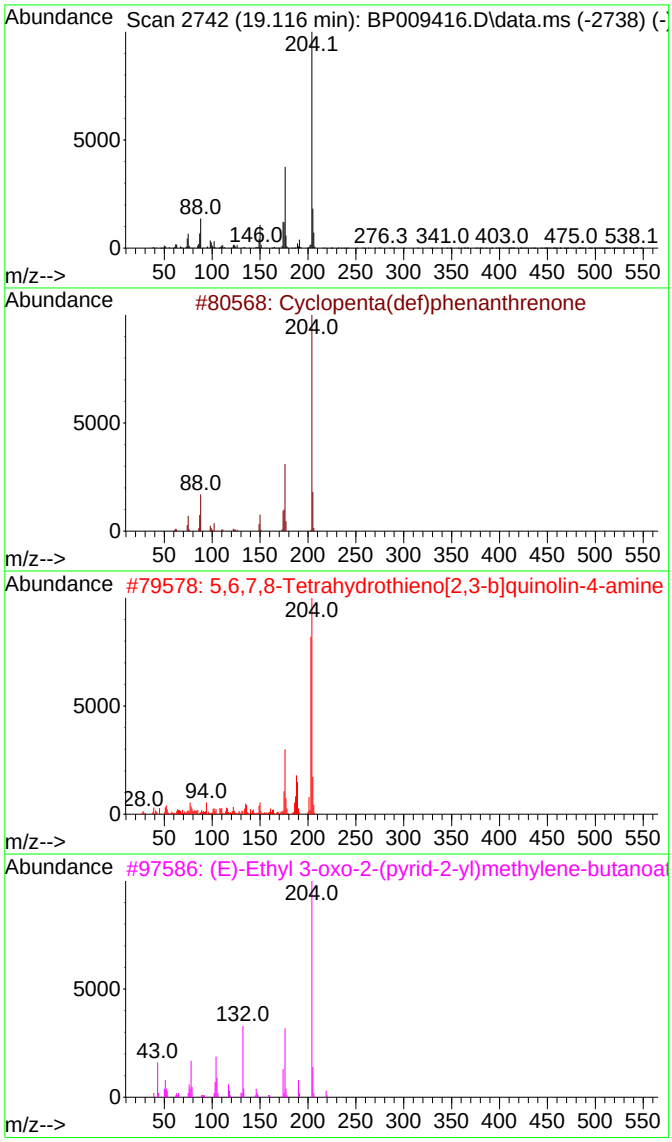
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

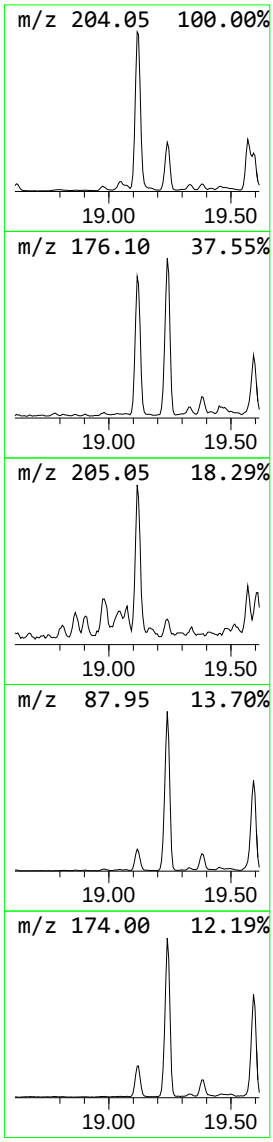
**********

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.116 | 6.33 ng | 1338830 | Phenanthrene-d10 | 17.216 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 96 |
| 2 | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204 | C11H12N2S | 122914-50-5 | 72 |
| 3 | (E)-Ethyl 3-oxo-2-(pyrid-2-yl)me... | 219 | C12H13NO3 | 1000147-59-7 | 50 |
| 4 | Indeno[2,1-a]indene, 5,10-dihydro- | 204 | C16H12 | 006543-29-9 | 50 |
| 5 | Quinoline, 8-methoxy-5-nitro- | 204 | C10H8N2O3 | 1000298-88-7 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

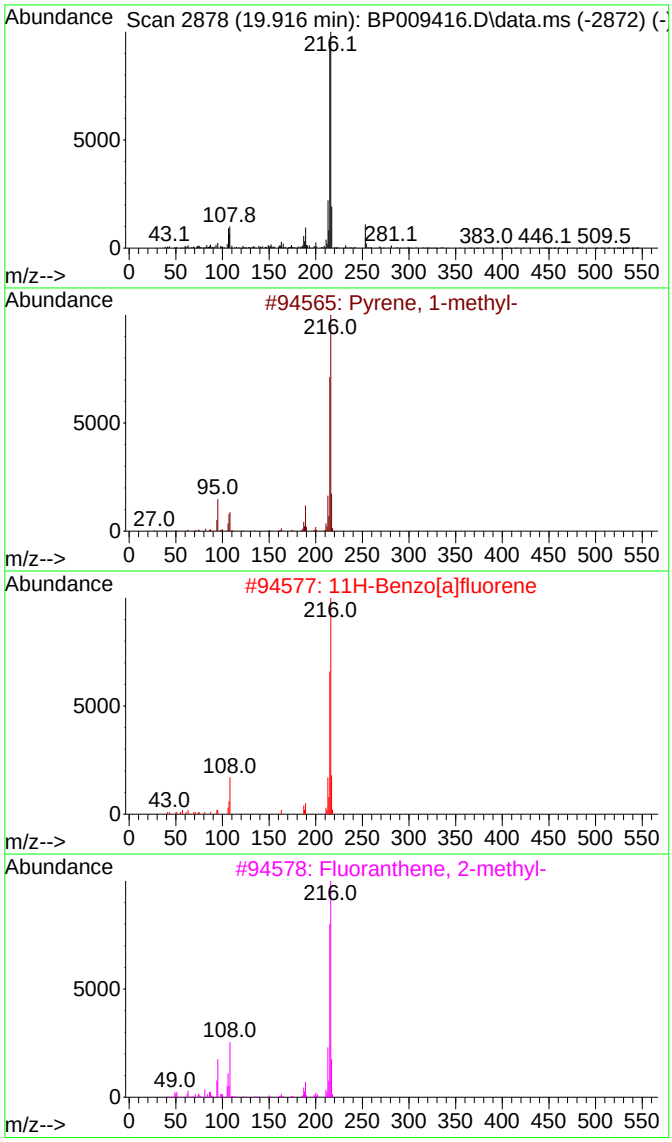
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

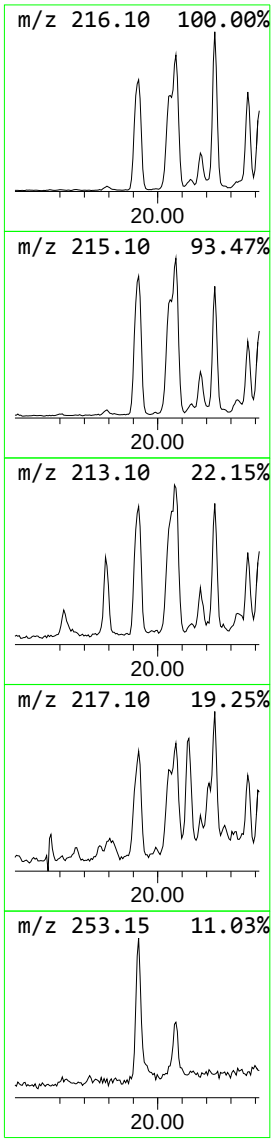
**********

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.916 | 2.06 ng | 1484550 | Chrysene-d12 | 21.327 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

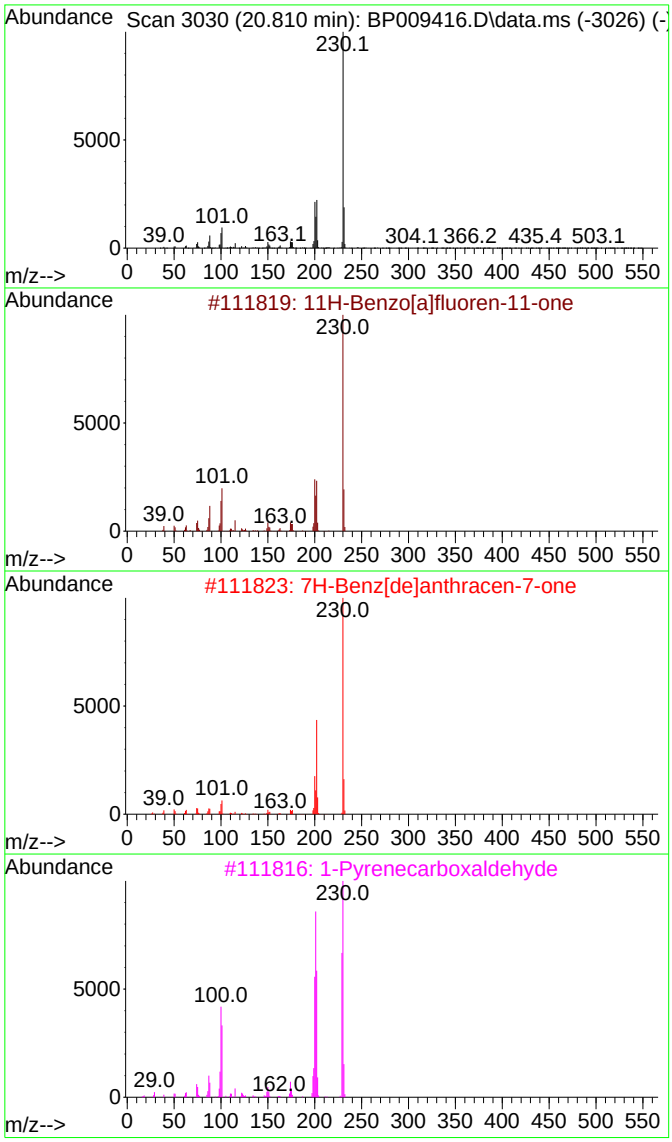
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

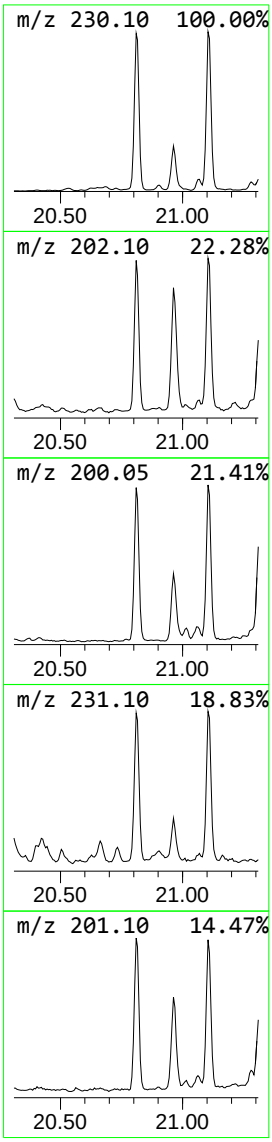
**********

Peak Number 15 11H-Benzo[a]fluoren-11-one Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.810 | 3.42 ng | 2459950 | Chrysene-d12 | 21.327 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 96 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 91 |
| 3 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 78 |
| 4 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 68 |
| 5 | o-Terphenyl | 230 | C18H14 | 000084-15-1 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

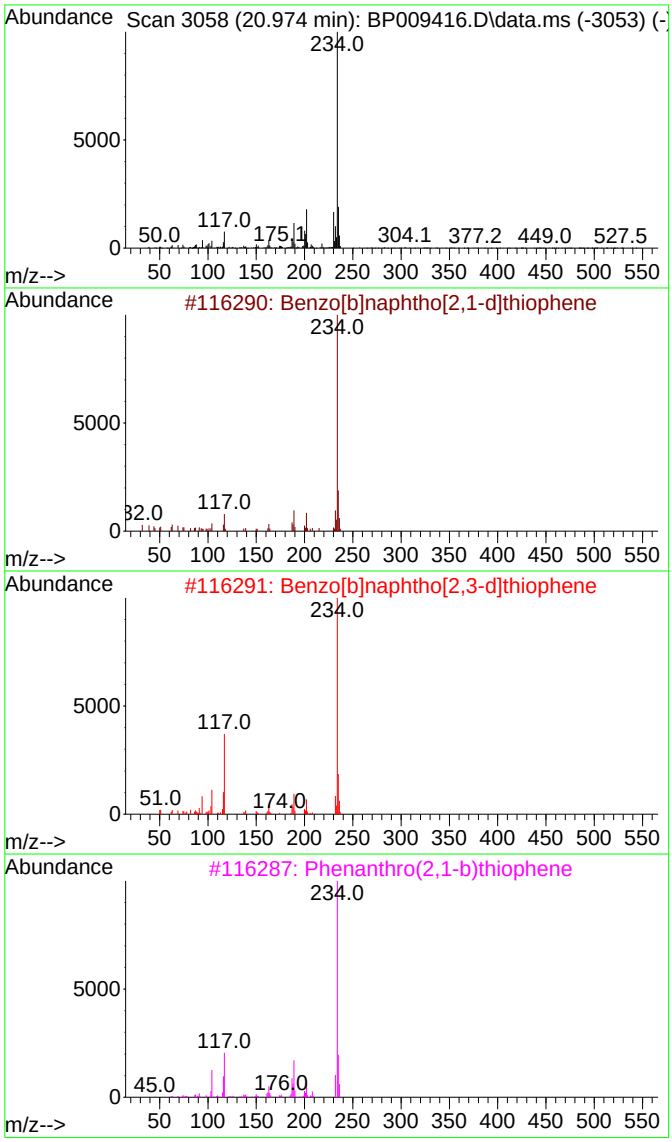
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

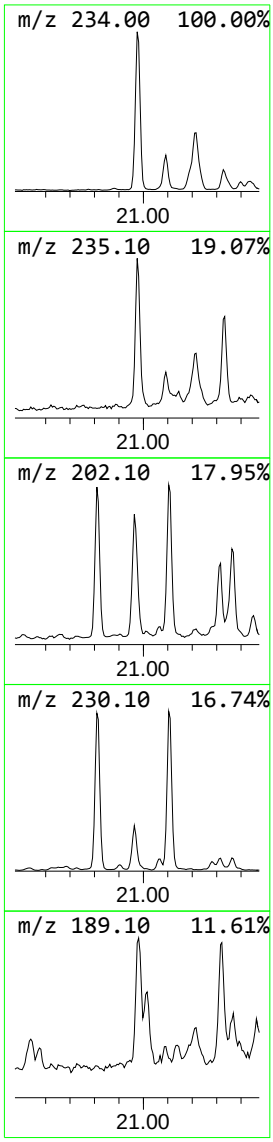
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.974 | 2.64 ng | 1901970 | Chrysene-d12 | 21.327 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 87 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 87 |
| 3 | Phenanthro(2,1-b)thiophene | 234 | C16H10S | 000219-25-0 | 59 |
| 4 | Quinoxalino[2,3-b]quinoxaline, 5... | 234 | C14H10N4 | 000531-46-4 | 58 |
| 5 | 2-(5-Amino-2-chloro-4-cyano-2-et... | 234 | C10H7ClN4O | 1000436-11-9 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

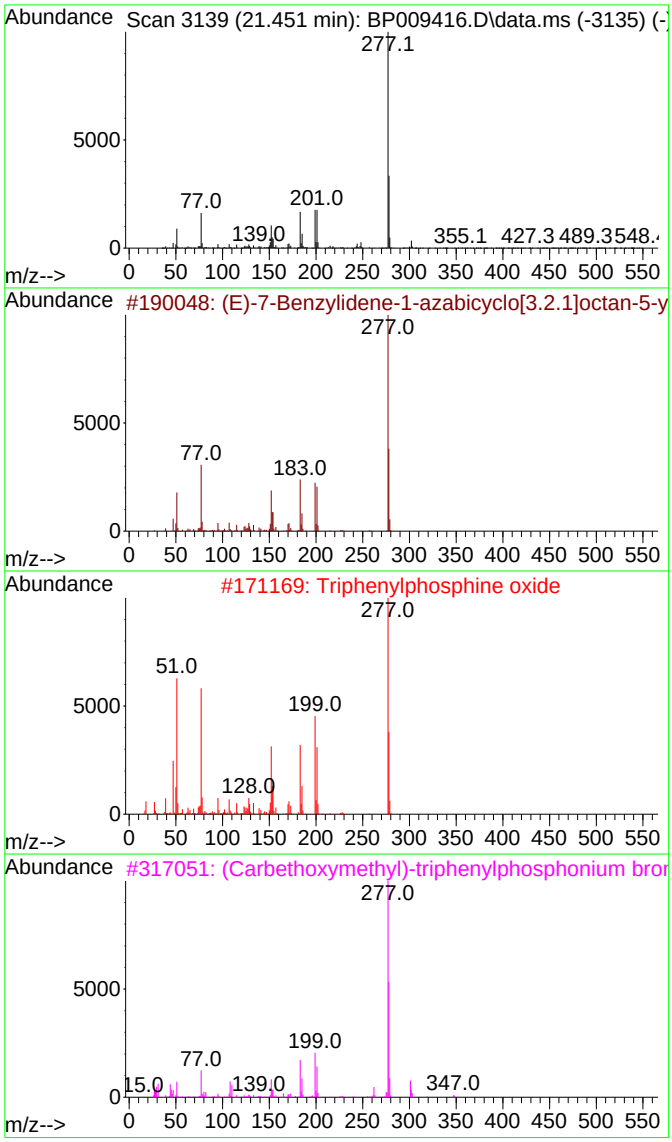
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

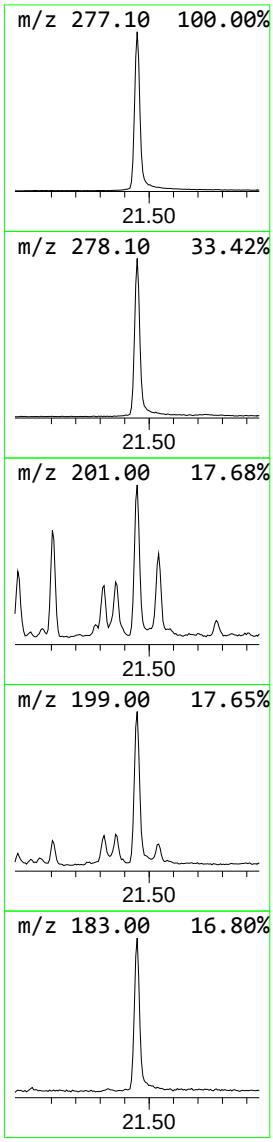
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 (E)-7-Benzylidene-1-azabicy... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.451 | 4.64 ng | 3342470 | Chrysene-d12 | 21.327 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-7-Benzylidene-1-azabicyclo[3... | 293 | C15H19NO3S | 1000483-83-4 | 90 |
| 2 | Triphenylphosphine oxide | 278 | C18H15OP | 000791-28-6 | 87 |
| 3 | (Carbethoxymethyl)-triphenylphos... | 428 | C22H22BrO2P | 001530-45-6 | 50 |
| 4 | Formaldehyde, (triphenylphosphor... | 304 | C19H17N2P | 015990-54-2 | 45 |
| 5 | 5-Methyl-8-phenylfuro[3',2':5,6]... | 277 | C16H11N3O2 | 1000460-07-9 | 40 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

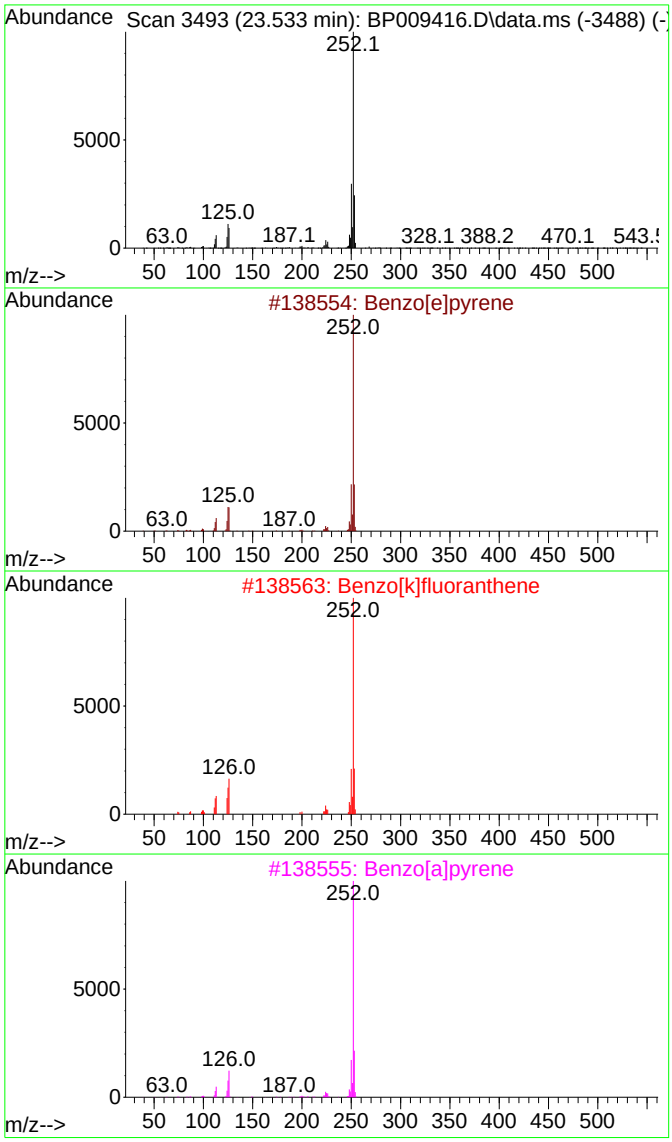
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

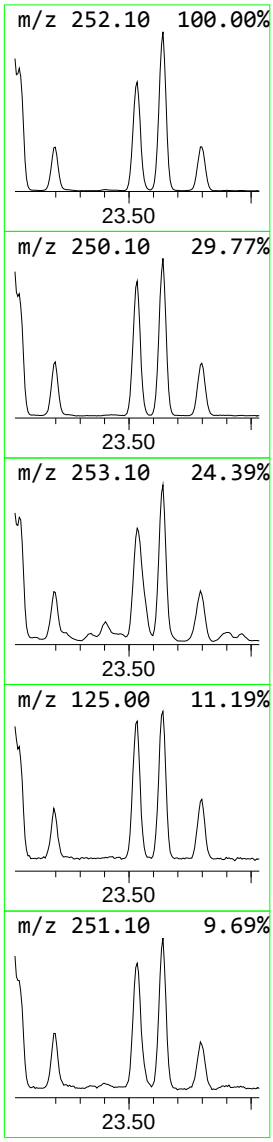
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.533 | 27.50 ng | 6393670 | Perylene-d12 | 23.745 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 97 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 95 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP031522\
Data File : BP009416.D
Acq On : 16 Mar 2022 01:16
Operator : CG/JU
Sample : N1894-04 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
TP4(0-7)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP030522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-metho... | 3.058 | 3.6 | ng | 333779 | 1 | 7.810 | 1847850 | 20.0 |
| Benzenesulfonam... | 15.698 | 3.3 | ng | 590974 | 3 | 14.457 | 3621450 | 20.0 |
| Benzenesulfonam... | 16.057 | 3.3 | ng | 692003 | 4 | 17.216 | 4229710 | 20.0 |
| 9H-Fluoren-9-one | 16.869 | 4.4 | ng | 935221 | 4 | 17.216 | 4229710 | 20.0 |
| Dibenzothiophene | 17.034 | 2.7 | ng | 568938 | 4 | 17.216 | 4229710 | 20.0 |
| Anthracene, 1-m... | 18.092 | 3.8 | ng | 800550 | 4 | 17.216 | 4229710 | 20.0 |
| n-Hexadecanoic ... | 18.128 | 11.9 | ng | 2505840 | 4 | 17.216 | 4229710 | 20.0 |
| 4H-Cyclopenta[d... | 18.281 | 7.6 | ng | 1611730 | 4 | 17.216 | 4229710 | 20.0 |
| Naphthalene, 2-... | 18.575 | 3.5 | ng | 730618 | 4 | 17.216 | 4229710 | 20.0 |
| 9,10-Anthracene... | 18.616 | 8.1 | ng | 1722490 | 4 | 17.216 | 4229710 | 20.0 |
| Naphthalic anhy... | 18.986 | 2.7 | ng | 564333 | 4 | 17.216 | 4229710 | 20.0 |
| Cyclopenta(def)... | 19.116 | 6.3 | ng | 1338830 | 4 | 17.216 | 4229710 | 20.0 |
| Pyrene, 1-methyl- | 19.916 | 2.1 | ng | 1484550 | 5 | 21.327 | 14398300 | 20.0 |
| 11H-Benzo[a]flu... | 20.810 | 3.4 | ng | 2459950 | 5 | 21.327 | 14398300 | 20.0 |
| Benzo[b]naphtho... | 20.974 | 2.6 | ng | 1901970 | 5 | 21.327 | 14398300 | 20.0 |
| (E)-7-Benzylide... | 21.451 | 4.6 | ng | 3342470 | 5 | 21.327 | 14398300 | 20.0 |
| Benzo[e]pyrene | 23.533 | 27.5 | ng | 6393670 | 6 | 23.745 | 4650280 | 20.0 |