LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

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-BP070721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP006156.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.458 | 397 | 403 | 420 | rBV | 450853 | 806521 | 14.61% | 1.243% |
| 2 | 7.069 | 671 | 677 | 693 | rBV | 354142 | 747731 | 13.54% | 1.153% |
| 3 | 7.875 | 806 | 814 | 830 | rBV | 712726 | 1208501 | 21.88% | 1.863% |
| 4 | 8.422 | 902 | 907 | 919 | rBV | 27554 | 60877 | 1.10% | 0.094% |
| 5 | 9.052 | 1008 | 1014 | 1031 | rBV | 216097 | 469903 | 8.51% | 0.724% |
| 6 | 10.681 | 1281 | 1291 | 1296 | rBV | 931547 | 1606964 | 29.10% | 2.477% |
| 7 | 10.734 | 1296 | 1300 | 1314 | rVB | 348553 | 606529 | 10.98% | 0.935% |
| 8 | 12.346 | 1566 | 1574 | 1583 | rBV | 288394 | 471142 | 8.53% | 0.726% |
| 9 | 12.563 | 1603 | 1611 | 1622 | rVB | 224414 | 398918 | 7.22% | 0.615% |
| 10 | 13.140 | 1698 | 1709 | 1719 | rBV | 768666 | 1174394 | 21.27% | 1.810% |
| 11 | 13.352 | 1739 | 1745 | 1751 | rBV2 | 47797 | 76480 | 1.38% | 0.118% |
| 12 | 13.552 | 1774 | 1779 | 1789 | rVB | 40750 | 95879 | 1.74% | 0.148% |
| 13 | 13.699 | 1796 | 1804 | 1811 | rBV4 | 116059 | 305140 | 5.53% | 0.470% |
| 14 | 13.840 | 1821 | 1828 | 1833 | rBV | 206690 | 379172 | 6.87% | 0.585% |
| 15 | 13.893 | 1833 | 1837 | 1847 | rVV | 135425 | 234759 | 4.25% | 0.362% |
| 16 | 14.075 | 1863 | 1868 | 1871 | rVV | 108192 | 162723 | 2.95% | 0.251% |
| 17 | 14.240 | 1887 | 1896 | 1909 | rBV | 276067 | 458552 | 8.30% | 0.707% |
| 18 | 14.516 | 1933 | 1943 | 1949 | rVV | 1387193 | 2112815 | 38.26% | 3.257% |
| 19 | 14.581 | 1949 | 1954 | 1962 | rVV | 260753 | 440067 | 7.97% | 0.678% |
| 20 | 14.728 | 1973 | 1979 | 1987 | rVV3 | 44062 | 108346 | 1.96% | 0.167% |
| 21 | 14.916 | 2005 | 2011 | 2017 | rVV | 316225 | 471237 | 8.53% | 0.726% |
| 22 | 14.993 | 2019 | 2024 | 2030 | rVB | 91913 | 132065 | 2.39% | 0.204% |
| 23 | 15.128 | 2040 | 2047 | 2053 | rBV3 | 82291 | 166157 | 3.01% | 0.256% |
| 24 | 15.187 | 2053 | 2057 | 2061 | rVB2 | 71256 | 95948 | 1.74% | 0.148% |
| 25 | 15.304 | 2069 | 2077 | 2080 | rBV5 | 62106 | 139287 | 2.52% | 0.215% |
| 26 | 15.340 | 2080 | 2083 | 2088 | rVB3 | 37249 | 56455 | 1.02% | 0.087% |
| 27 | 15.481 | 2097 | 2107 | 2109 | rBV5 | 34669 | 86007 | 1.56% | 0.133% |
| 28 | 15.563 | 2115 | 2121 | 2130 | rBV | 705786 | 1078874 | 19.54% | 1.663% |
| 29 | 15.722 | 2145 | 2148 | 2153 | rVB3 | 60734 | 90382 | 1.64% | 0.139% |
| 30 | 15.769 | 2153 | 2156 | 2161 | rBV3 | 45739 | 71445 | 1.29% | 0.110% |
| 31 | 15.857 | 2166 | 2171 | 2178 | rVB | 112516 | 180437 | 3.27% | 0.278% |
| 32 | 16.010 | 2188 | 2197 | 2204 | rBV | 668730 | 1084284 | 19.64% | 1.671% |
| 33 | 16.240 | 2234 | 2236 | 2247 | rVB3 | 67552 | 116383 | 2.11% | 0.179% |
| 34 | 16.569 | 2284 | 2292 | 2297 | rBV2 | 160699 | 336559 | 6.09% | 0.519% |
| 35 | 16.616 | 2297 | 2300 | 2306 | rVB | 100473 | 146048 | 2.64% | 0.225% |
| 36 | 16.716 | 2313 | 2317 | 2322 | rVB | 93100 | 137458 | 2.49% | 0.212% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

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-BP070721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 16.840 | 2335 | 2338 | 2341 | rVB3 | 49084 | 56559 | 1.02% | 0.087% |
| 38 | 16.928 | 2349 | 2353 | 2360 | rVB5 | 44129 | 69204 | 1.25% | 0.107% |
| 39 | 16.998 | 2361 | 2365 | 2366 | rBV | 52492 | 71094 | 1.29% | 0.110% |
| 40 | 17.087 | 2375 | 2380 | 2390 | rVB | 253481 | 415025 | 7.52% | 0.640% |
| 41 | 17.269 | 2405 | 2411 | 2414 | rBV | 1529483 | 2259716 | 40.92% | 3.484% |
| 42 | 17.310 | 2414 | 2418 | 2425 | rVV | 4052861 | 5522184 | 100.00% | 8.513% |
| 43 | 17.398 | 2428 | 2433 | 2439 | rVV | 993783 | 1445175 | 26.17% | 2.228% |
| 44 | 17.469 | 2439 | 2445 | 2449 | rVV2 | 95346 | 162765 | 2.95% | 0.251% |
| 45 | 17.545 | 2454 | 2458 | 2467 | rVB5 | 44794 | 126615 | 2.29% | 0.195% |
| 46 | 17.675 | 2475 | 2480 | 2490 | rBV | 378715 | 653724 | 11.84% | 1.008% |
| 47 | 17.787 | 2496 | 2499 | 2502 | rBV2 | 49574 | 56402 | 1.02% | 0.087% |
| 48 | 17.845 | 2505 | 2509 | 2517 | rVB2 | 120317 | 201780 | 3.65% | 0.311% |
| 49 | 17.928 | 2519 | 2523 | 2528 | rBV3 | 86618 | 115273 | 2.09% | 0.178% |
| 50 | 17.987 | 2528 | 2533 | 2538 | rBV2 | 77539 | 142396 | 2.58% | 0.220% |
| 51 | 18.134 | 2553 | 2558 | 2562 | rBV | 598276 | 833338 | 15.09% | 1.285% |
| 52 | 18.181 | 2562 | 2566 | 2571 | rVB | 804907 | 1035011 | 18.74% | 1.596% |
| 53 | 18.257 | 2575 | 2579 | 2584 | rBV | 258891 | 368598 | 6.67% | 0.568% |
| 54 | 18.322 | 2584 | 2590 | 2594 | rVV3 | 865659 | 1466395 | 26.55% | 2.261% |
| 55 | 18.357 | 2594 | 2596 | 2601 | rVB | 382219 | 419140 | 7.59% | 0.646% |
| 56 | 18.428 | 2605 | 2608 | 2612 | rBV | 78565 | 95596 | 1.73% | 0.147% |
| 57 | 18.475 | 2613 | 2616 | 2620 | rVB2 | 48133 | 55854 | 1.01% | 0.086% |
| 58 | 18.616 | 2636 | 2640 | 2644 | rBV | 296787 | 380206 | 6.89% | 0.586% |
| 59 | 18.669 | 2645 | 2649 | 2654 | rVB | 167450 | 225968 | 4.09% | 0.348% |
| 60 | 18.851 | 2677 | 2680 | 2685 | rVB2 | 106651 | 125519 | 2.27% | 0.193% |
| 61 | 18.904 | 2685 | 2689 | 2692 | rVV | 172583 | 210305 | 3.81% | 0.324% |
| 62 | 18.939 | 2692 | 2695 | 2699 | rVB2 | 120016 | 147893 | 2.68% | 0.228% |
| 63 | 19.016 | 2704 | 2708 | 2713 | rBV | 378209 | 667741 | 12.09% | 1.029% |
| 64 | 19.057 | 2713 | 2715 | 2718 | rBV2 | 172433 | 221702 | 4.01% | 0.342% |
| 65 | 19.157 | 2728 | 2732 | 2735 | rBV3 | 133320 | 267633 | 4.85% | 0.413% |
| 66 | 19.275 | 2747 | 2752 | 2758 | rBV | 4039323 | 5375097 | 97.34% | 8.286% |
| 67 | 19.369 | 2765 | 2768 | 2772 | rBV | 117229 | 149589 | 2.71% | 0.231% |
| 68 | 19.422 | 2774 | 2777 | 2781 | rVV | 101076 | 128951 | 2.34% | 0.199% |
| 69 | 19.510 | 2789 | 2792 | 2795 | rBV | 118089 | 139853 | 2.53% | 0.216% |
| 70 | 19.598 | 2802 | 2807 | 2808 | rBV | 583908 | 764812 | 13.85% | 1.179% |
| 71 | 19.628 | 2808 | 2812 | 2820 | rVV | 3440439 | 4859896 | 88.01% | 7.492% |
| 72 | 19.698 | 2821 | 2824 | 2830 | rVB2 | 222896 | 326823 | 5.92% | 0.504% |
| 73 | 19.816 | 2839 | 2844 | 2848 | rVB2 | 1290901 | 1595305 | 28.89% | 2.459% |
| 74 | 19.939 | 2861 | 2865 | 2866 | rBV3 | 208856 | 286581 | 5.19% | 0.442% |
| 75 | 20.110 | 2884 | 2894 | 2899 | rBV | 725154 | 1431827 | 25.93% | 2.207% |
| 76 | 20.204 | 2906 | 2910 | 2914 | rBV2 | 663728 | 832866 | 15.08% | 1.284% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

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-BP070721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 20.263 | 2917 | 2920 | 2924 | rVB | 350934 | 434385 | 7.87% | 0.670% |
| 78 | 20.398 | 2941 | 2943 | 2947 | rVB | 203209 | 203919 | 3.69% | 0.314% |
| 79 | 21.004 | 3043 | 3046 | 3049 | rBV | 265259 | 347062 | 6.28% | 0.535% |
| 80 | 21.345 | 3098 | 3104 | 3108 | rBV3 | 2608301 | 5204212 | 94.24% | 8.023% |
| 81 | 21.386 | 3108 | 3111 | 3119 | rVB | 1631910 | 2105816 | 38.13% | 3.246% |
| 82 | 23.016 | 3384 | 3388 | 3393 | rBV2 | 939736 | 2040258 | 36.95% | 3.145% |
| 83 | 23.645 | 3490 | 3495 | 3501 | rVB | 1203895 | 2362401 | 42.78% | 3.642% |
| 84 | 23.745 | 3508 | 3512 | 3518 | rVB2 | 1174546 | 2146161 | 38.86% | 3.308% |

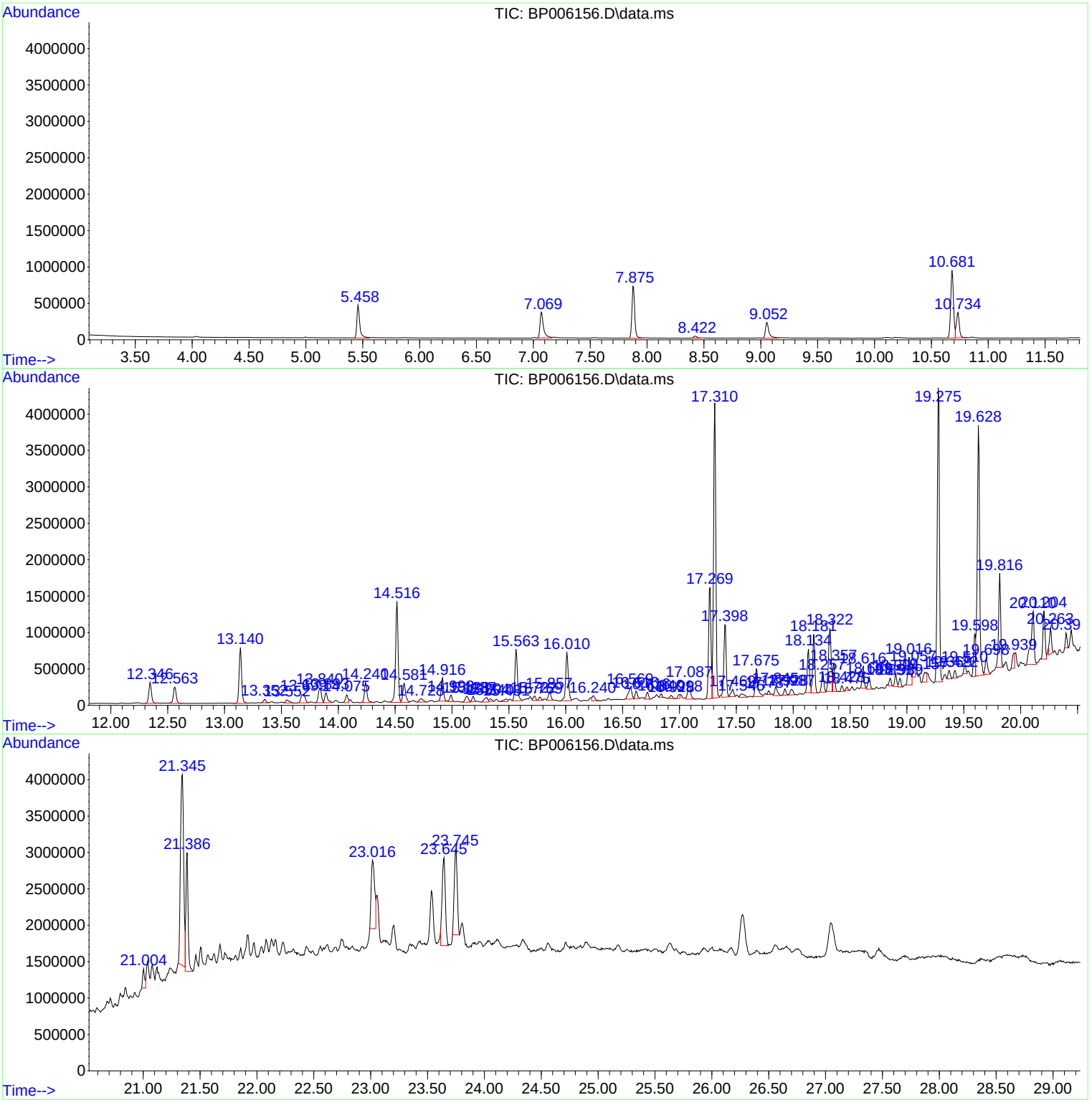
Sum of corrected areas: 64869064

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.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_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

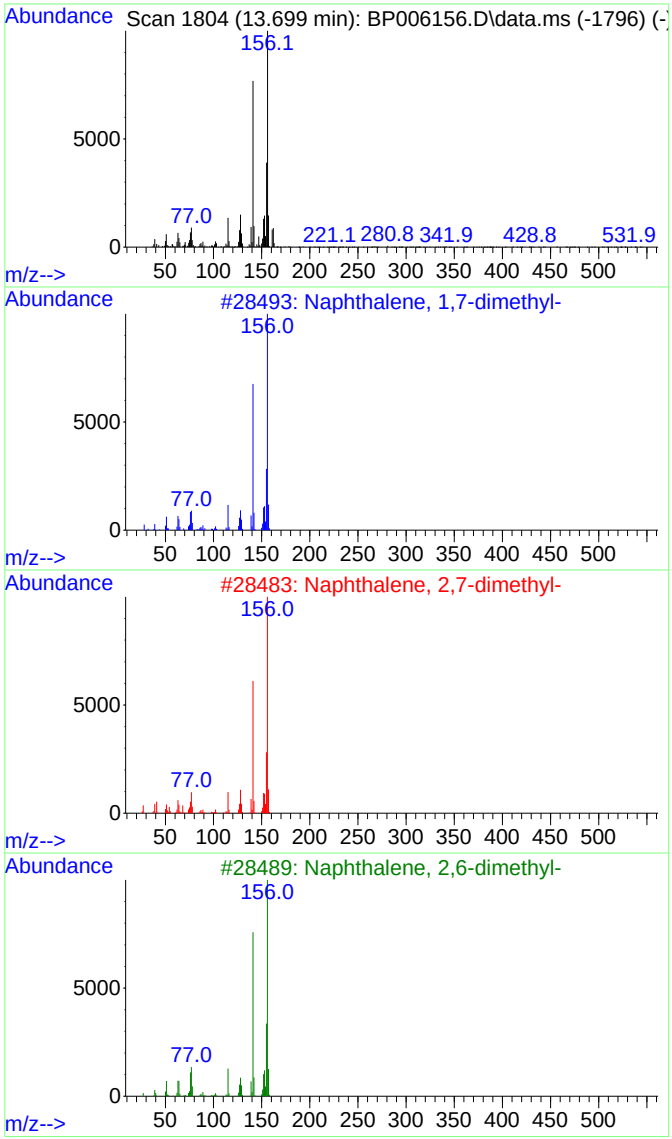
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

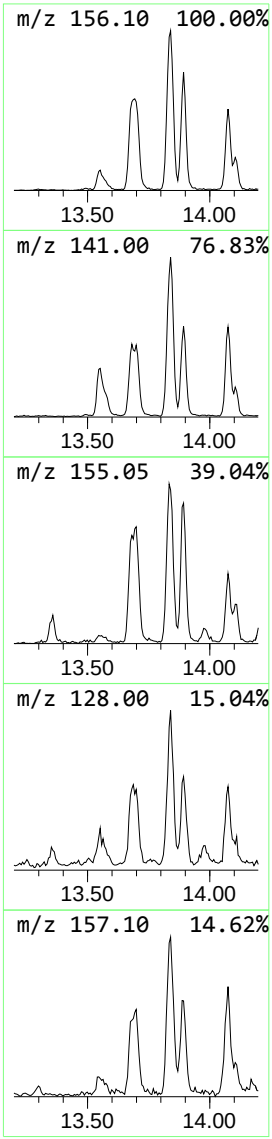
**********

Peak Number 1 Naphthalene, 1,7-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.699 | 2.89 ng | 305140 | Acenaphthene-d10 | 14.516 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

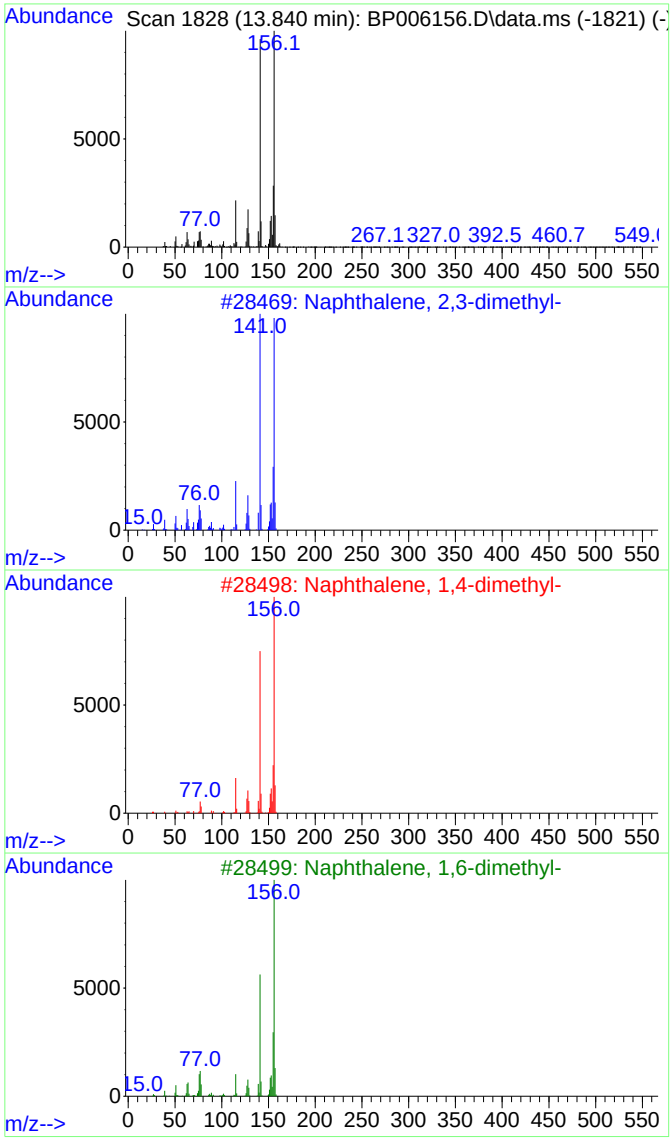
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

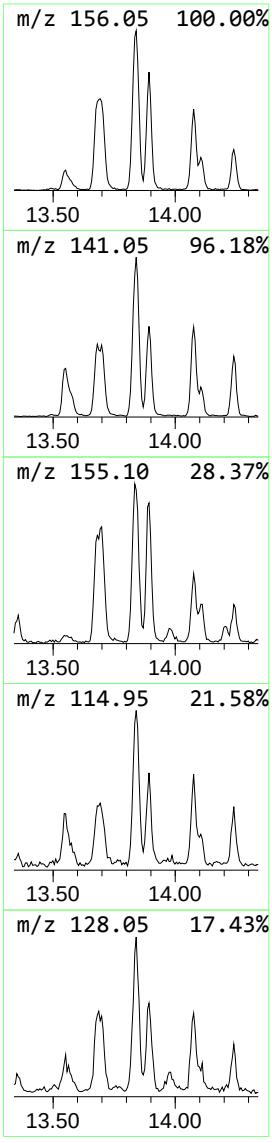
**********

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.840 | 3.59 ng | 379172 | Acenaphthene-d10 | 14.516 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

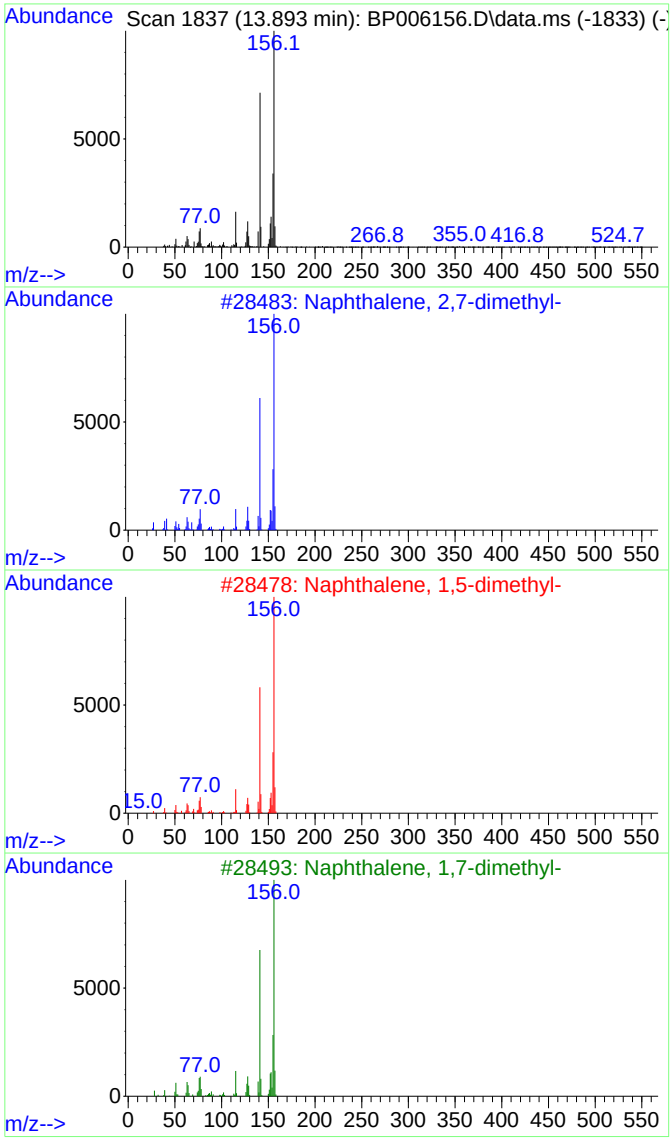
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

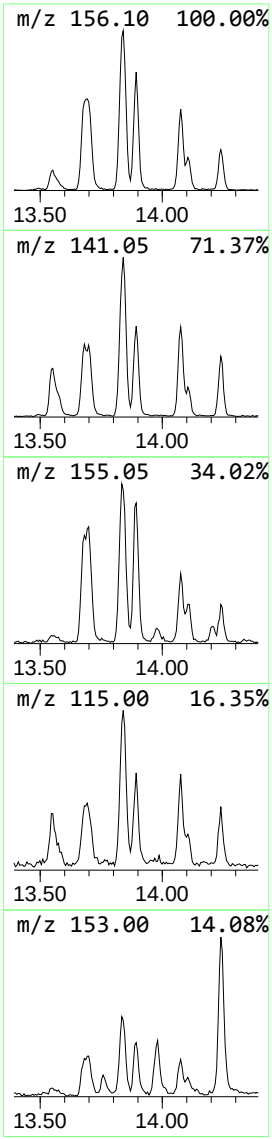
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.893 | 2.22 ng | 234759 | Acenaphthene-d10 | 14.516 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

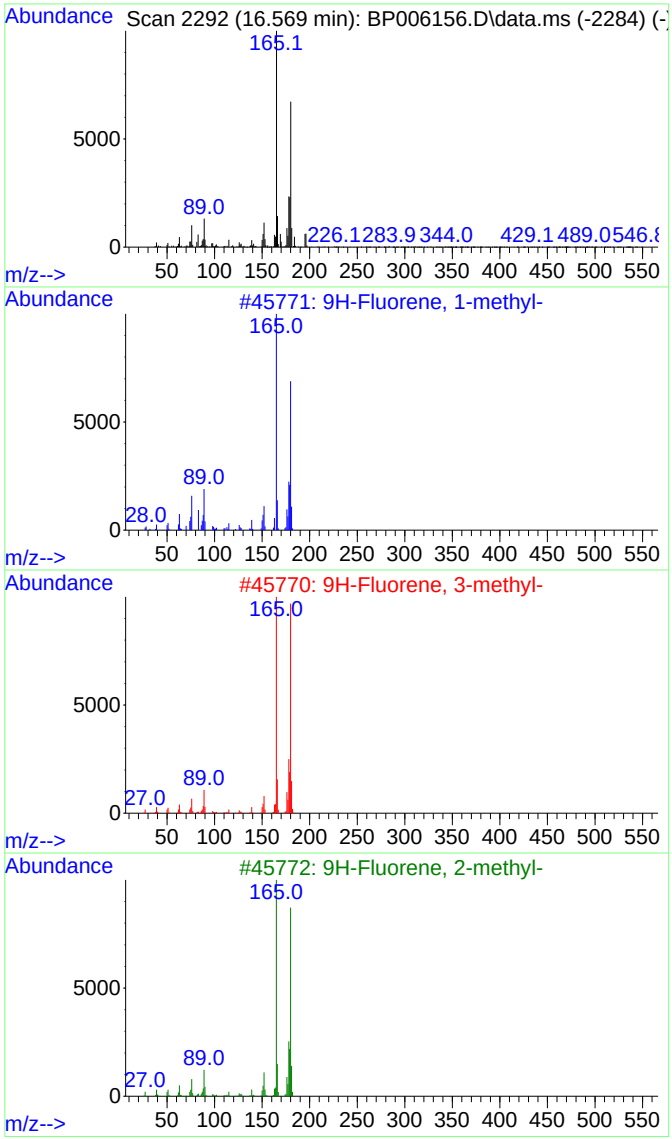
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

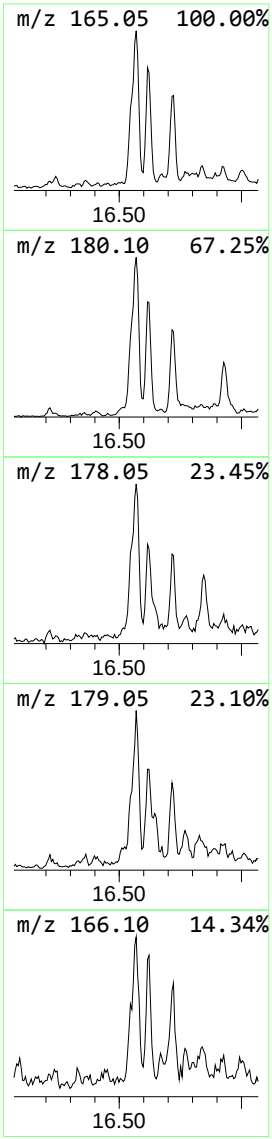
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.569 | 2.98 ng | 336559 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 94 |
| 2 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 90 |
| 3 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 90 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 72 |
| 5 | (3H)Benzo[c]pyrrole, 3-methyl-3-... | 208 | C14H12N2 | 059341-20-7 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

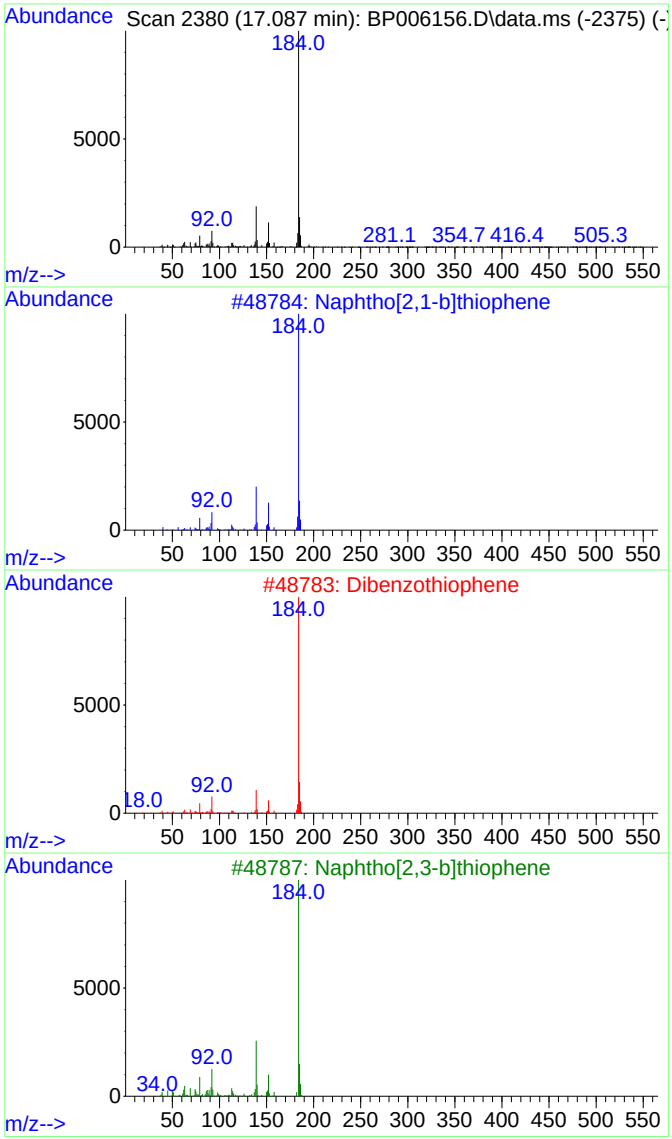
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

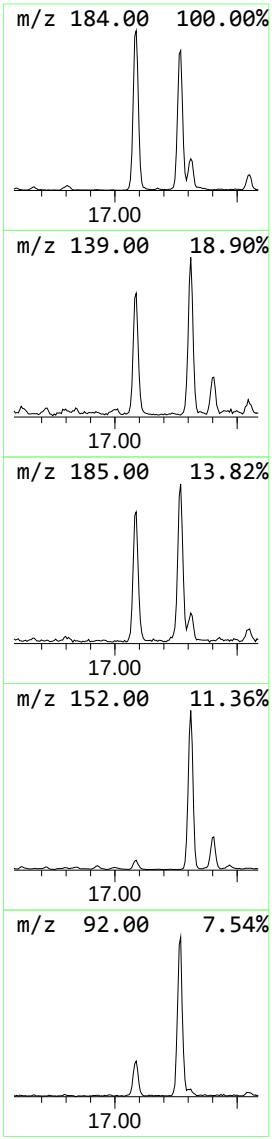
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.087 | 3.67 ng | 415025 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 97 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 3 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 4 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 94 |
| 5 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 90 |



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Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

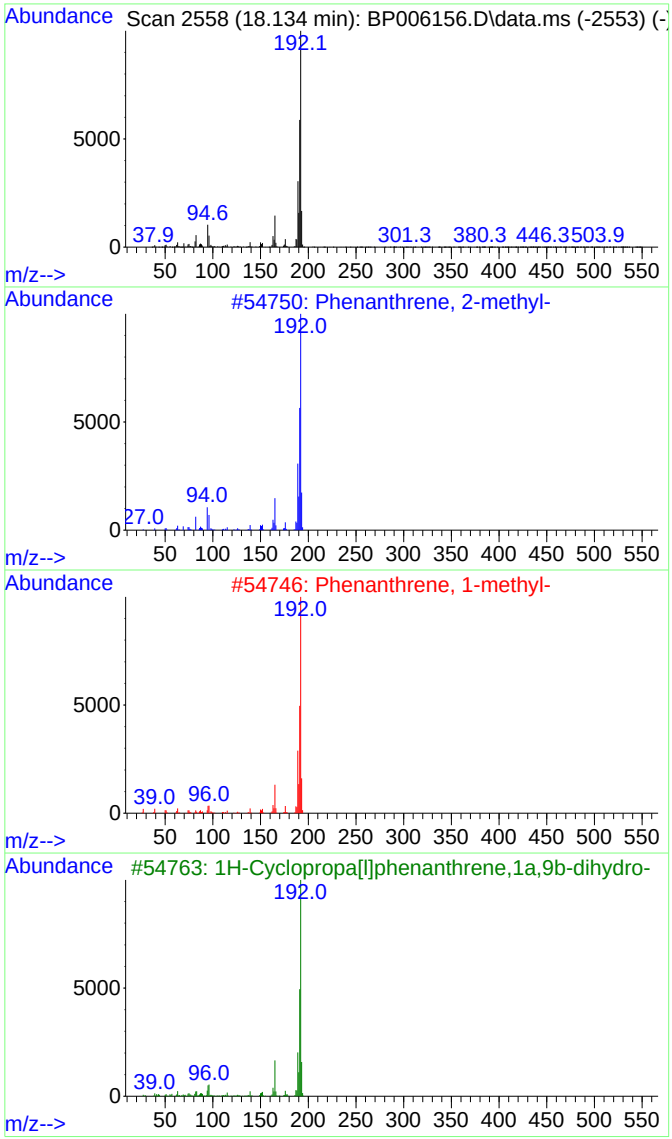
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

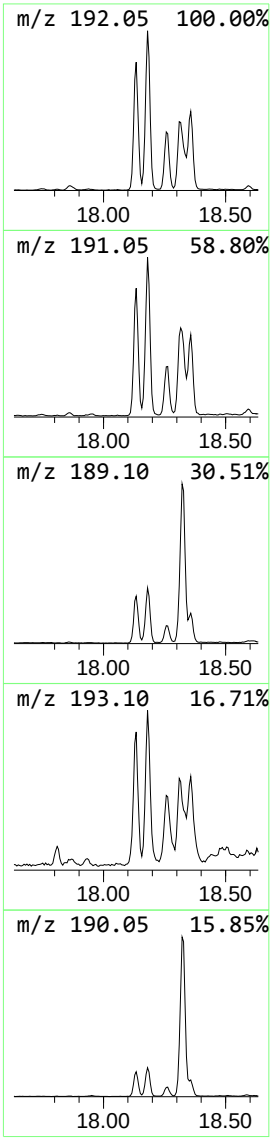
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.134 | 7.38 ng | 833338 | Phenanthrene-d10 | 17.269 |

| 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 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



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Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

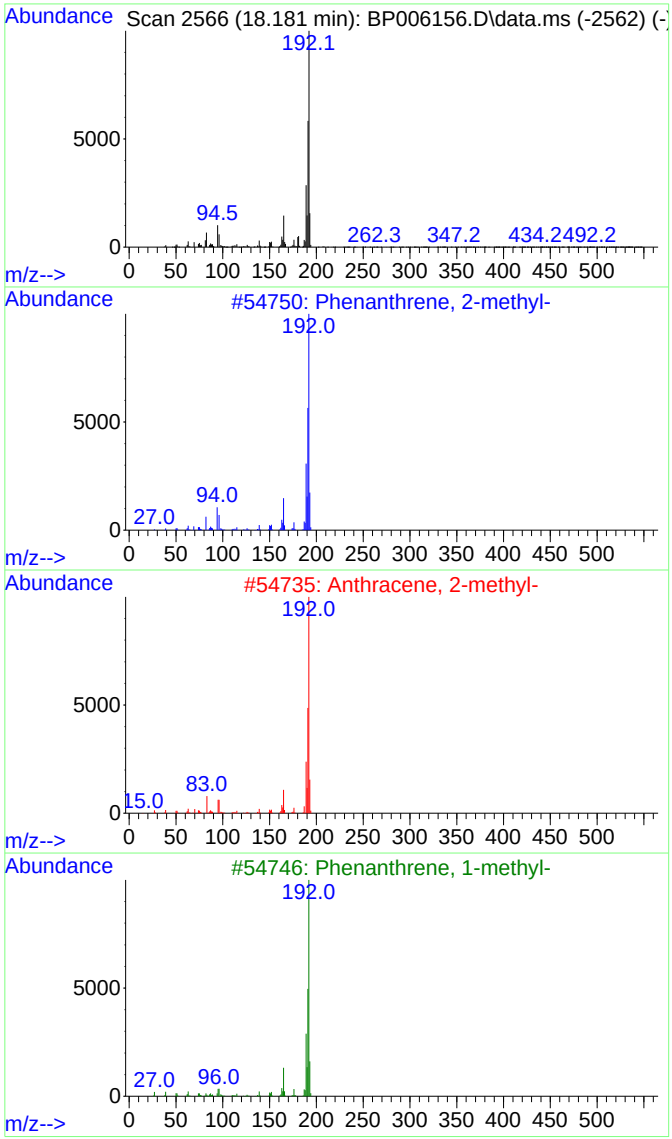
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

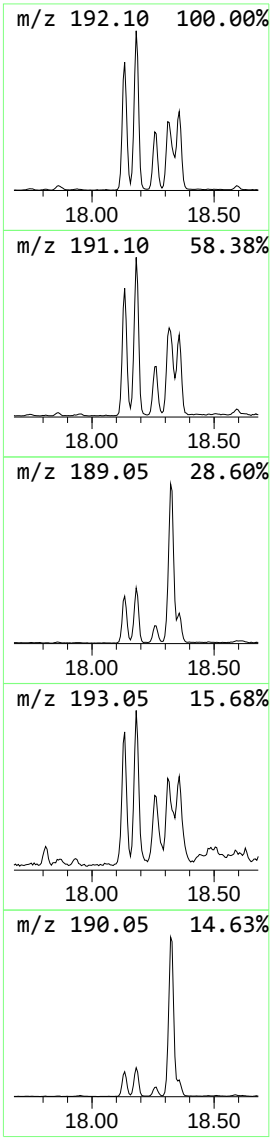
**********

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.181 | 9.16 ng | 1035010 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |



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Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

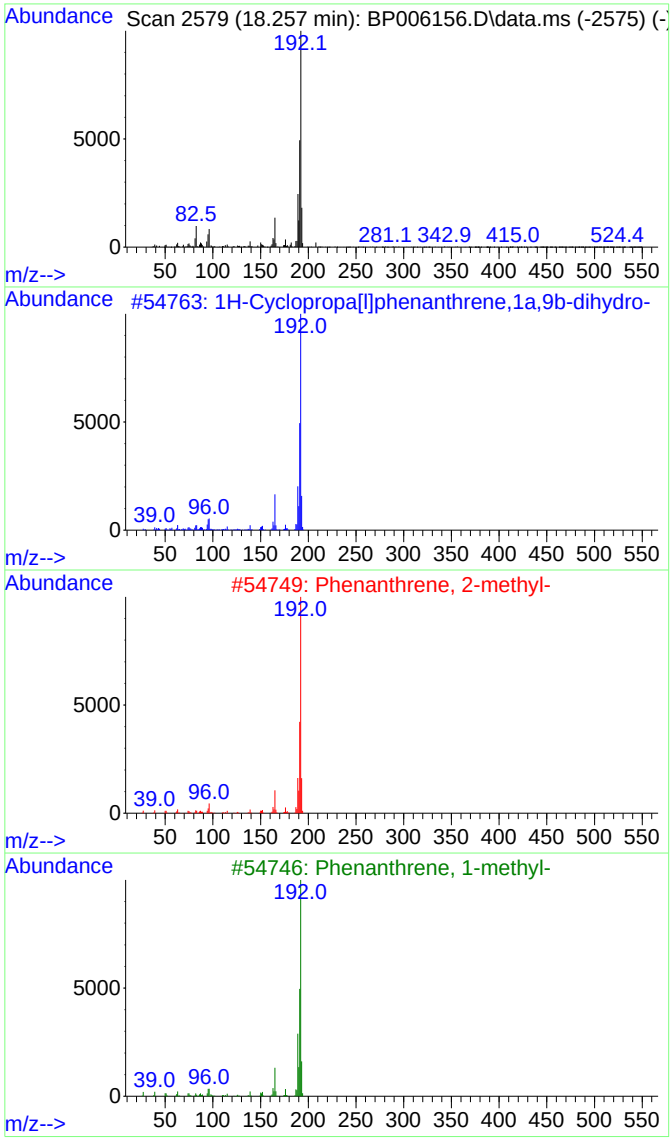
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

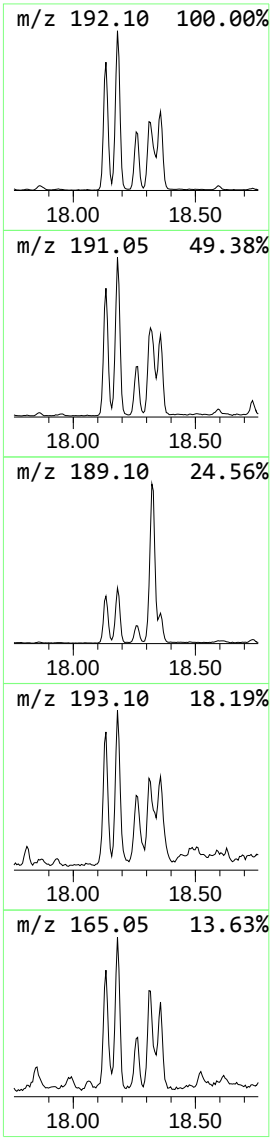
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.257 | 3.26 ng | 368598 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 95 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |



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Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

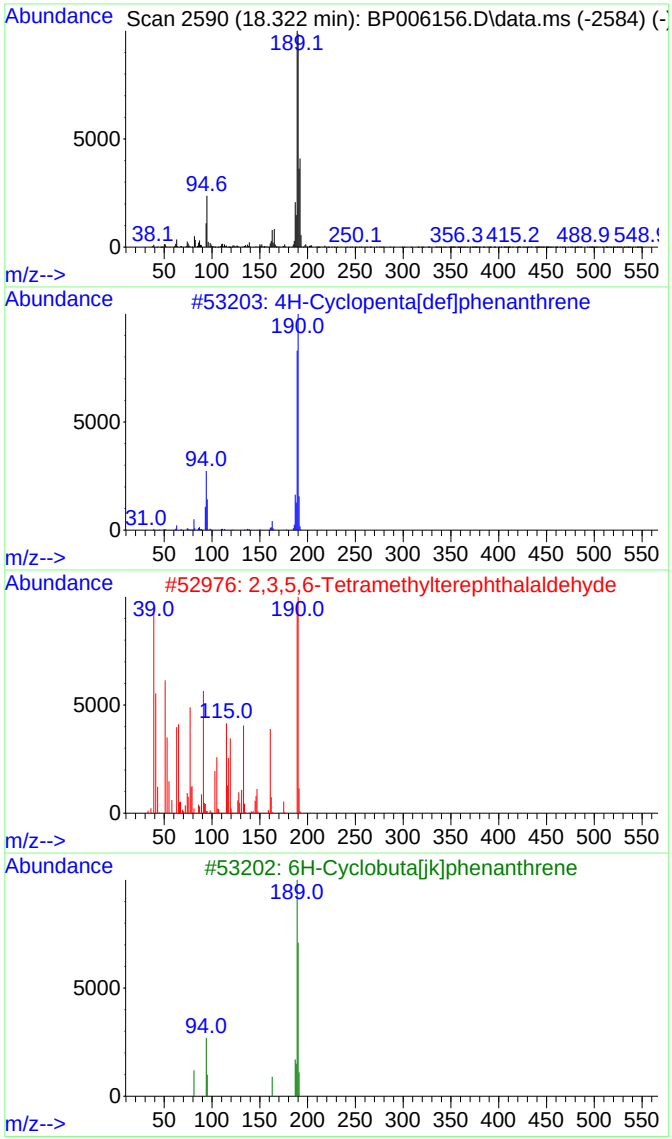
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

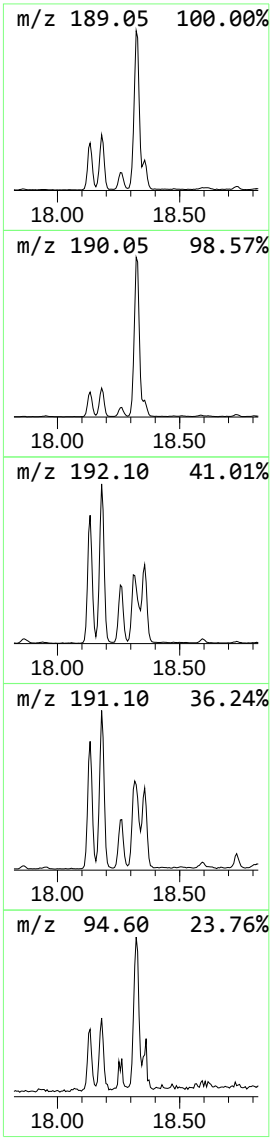
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.322 | 12.98 ng | 1466400 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 2 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 45 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 28 |
| 5 | 1-Aminocyclopentanecarboxylic ac... | 375 | C19H34ClNO4 | 1000329-17-1 | 25 |



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Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

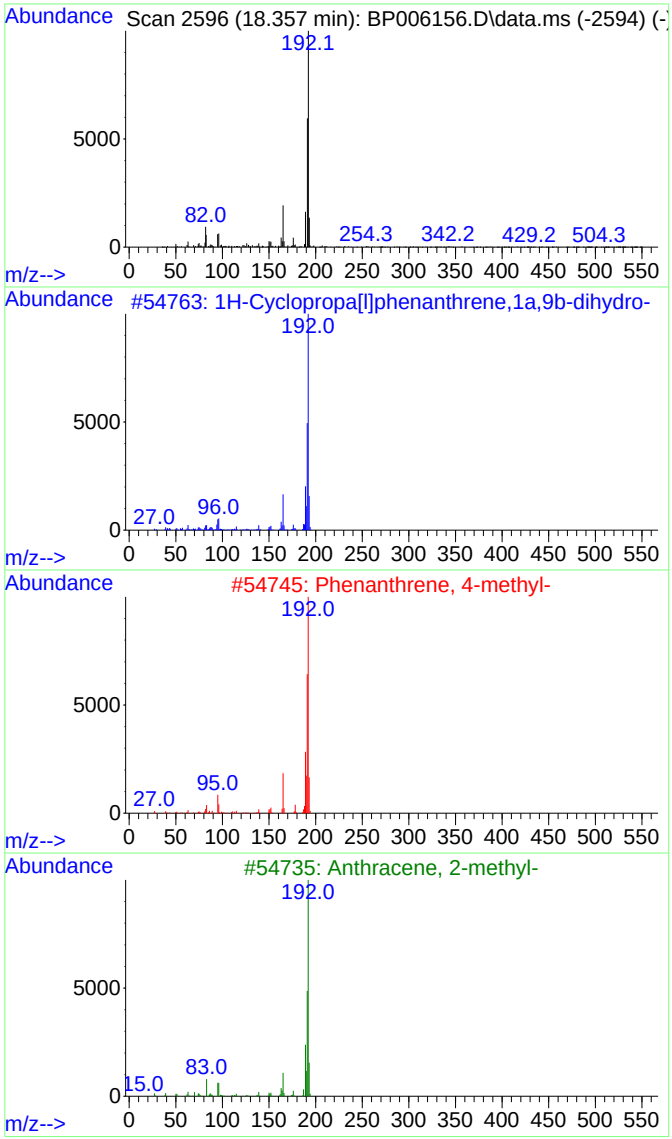
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

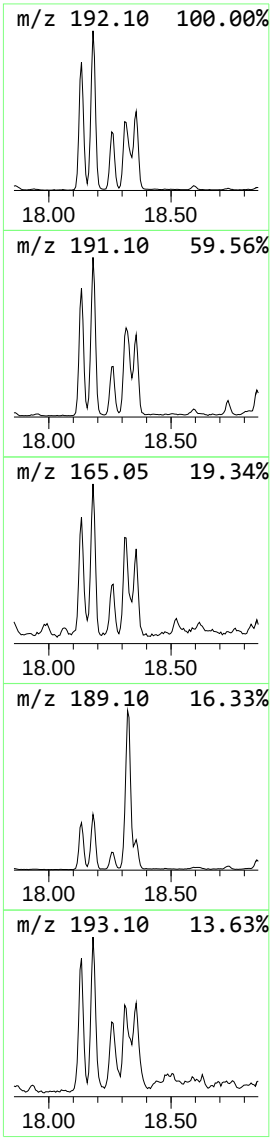
**********

Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.357 | 3.71 ng | 419140 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |
| 2 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 91 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 87 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

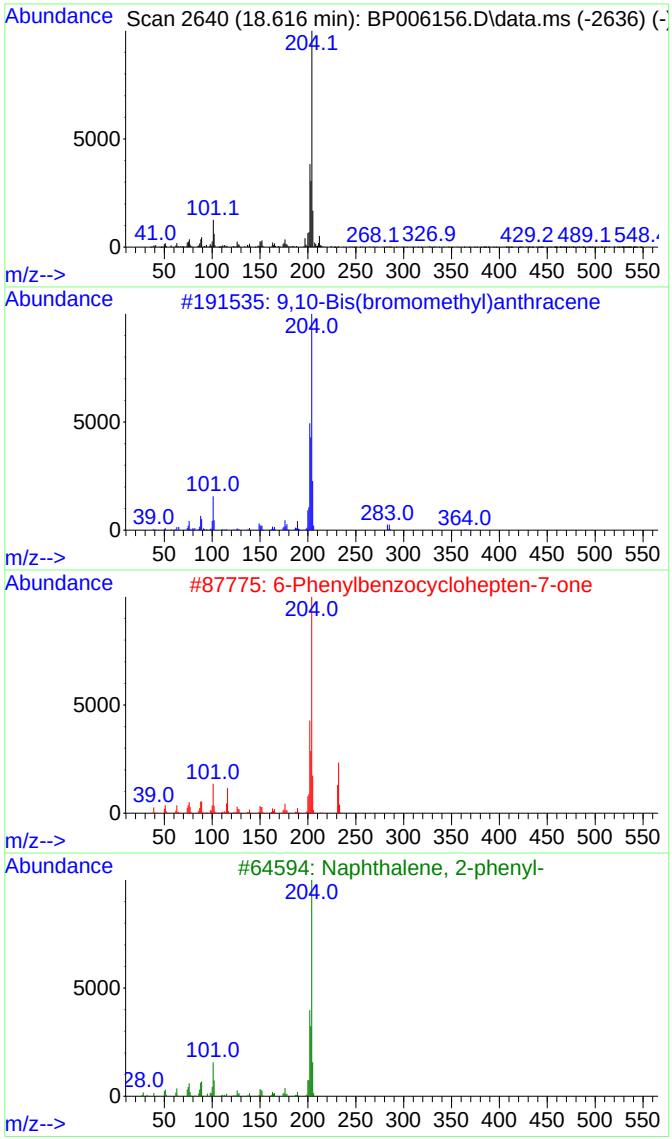
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

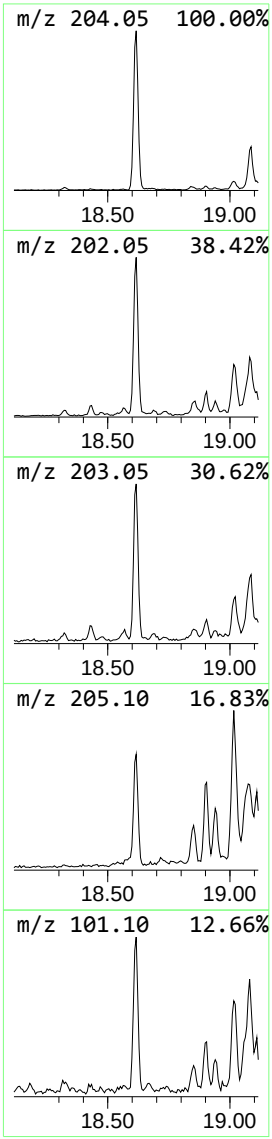
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 9,10-Bis(bromomethyl)anthra... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.616 | 3.37 ng | 380206 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 93 |
| 2 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 90 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 62 |
| 5 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

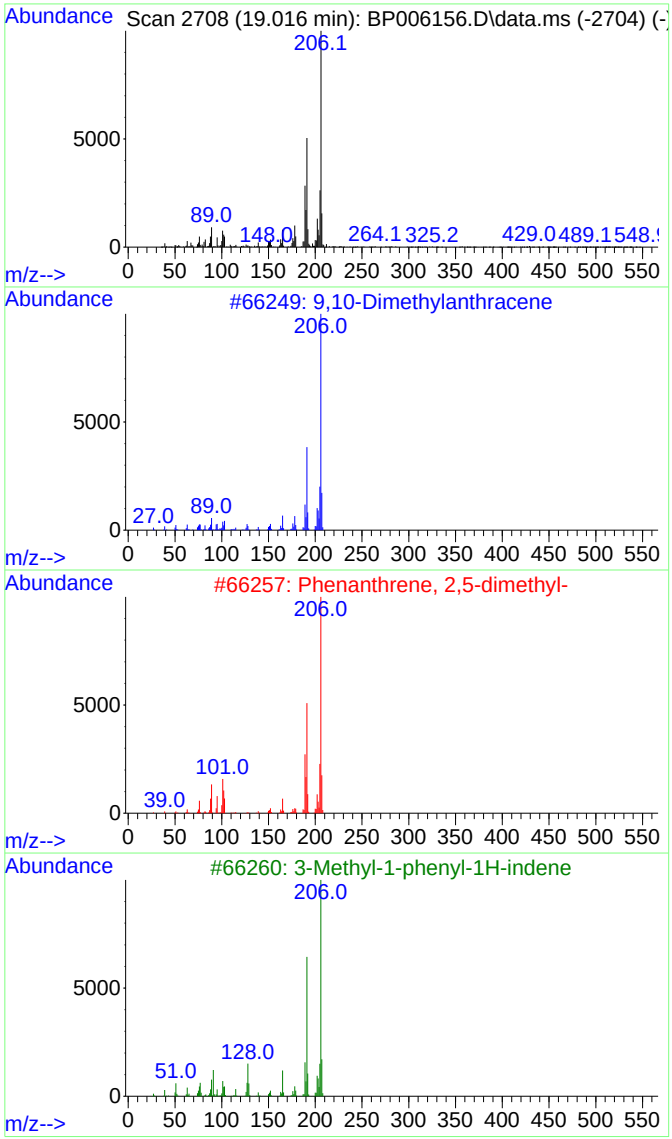
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

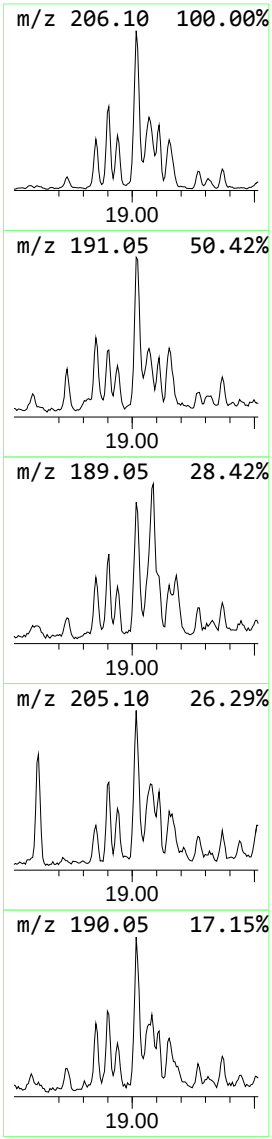
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 9,10-Dimethylanthracene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.016 | 5.91 ng | 667741 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 96 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 3 | 3-Methyl-1-phenyl-1H-indene | 206 | C16H14 | 022360-63-0 | 93 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

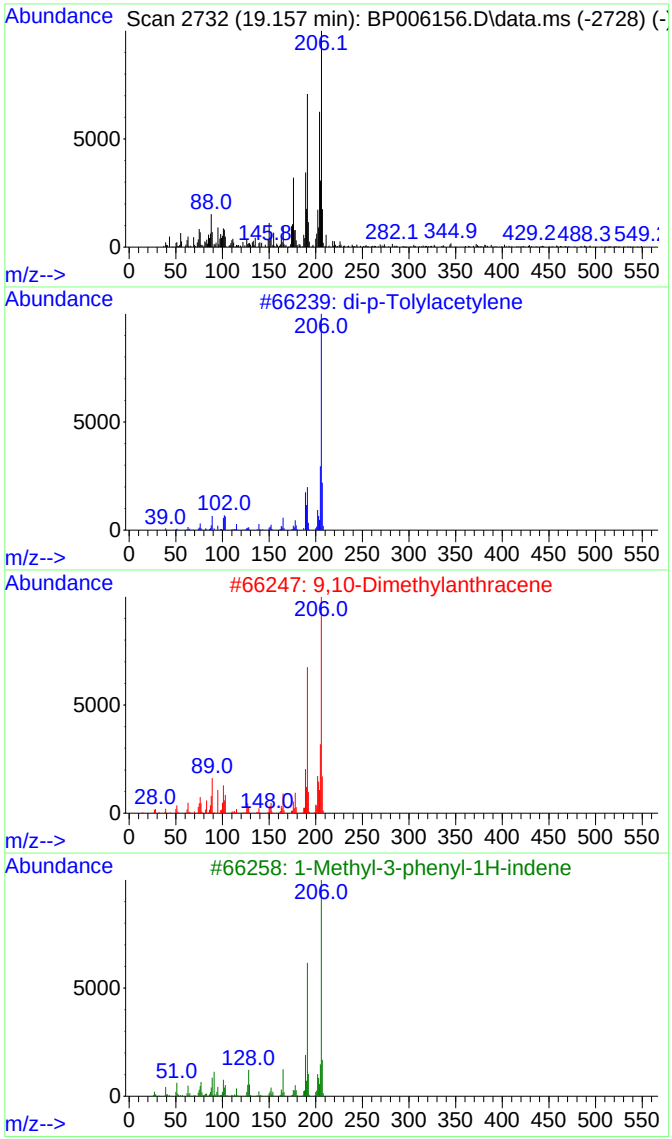
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

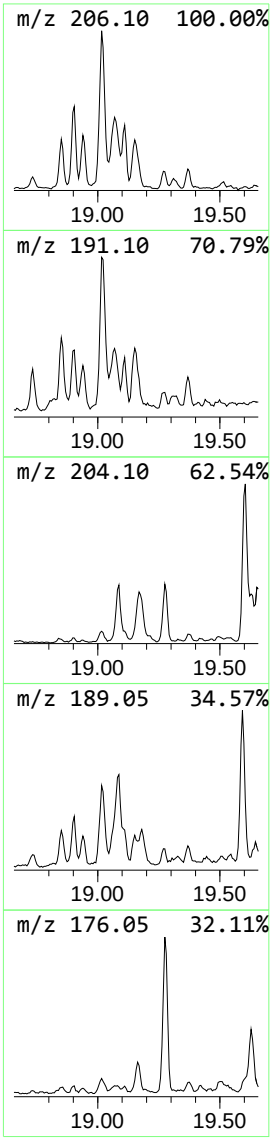
**********

Peak Number 13 di-p-Tolylacetylene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.157 | 2.37 ng | 267633 | Phenanthrene-d10 | 17.269 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 86 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 86 |
| 3 | 1-Methyl-3-phenyl-1H-indene | 206 | C16H14 | 022360-62-9 | 83 |
| 4 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 83 |
| 5 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

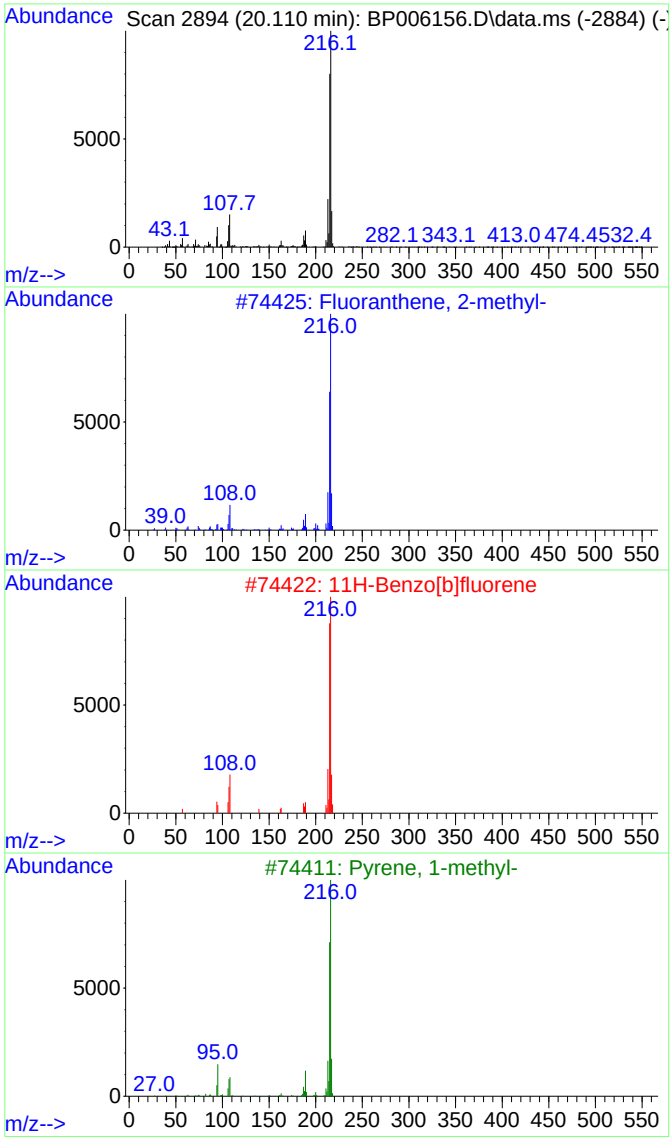
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

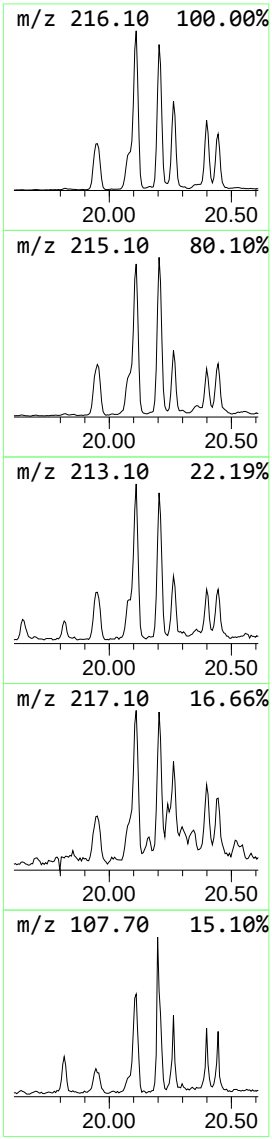
**********

Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.110 | 5.50 ng | 1431830 | Chrysene-d12 | 21.351 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 96 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

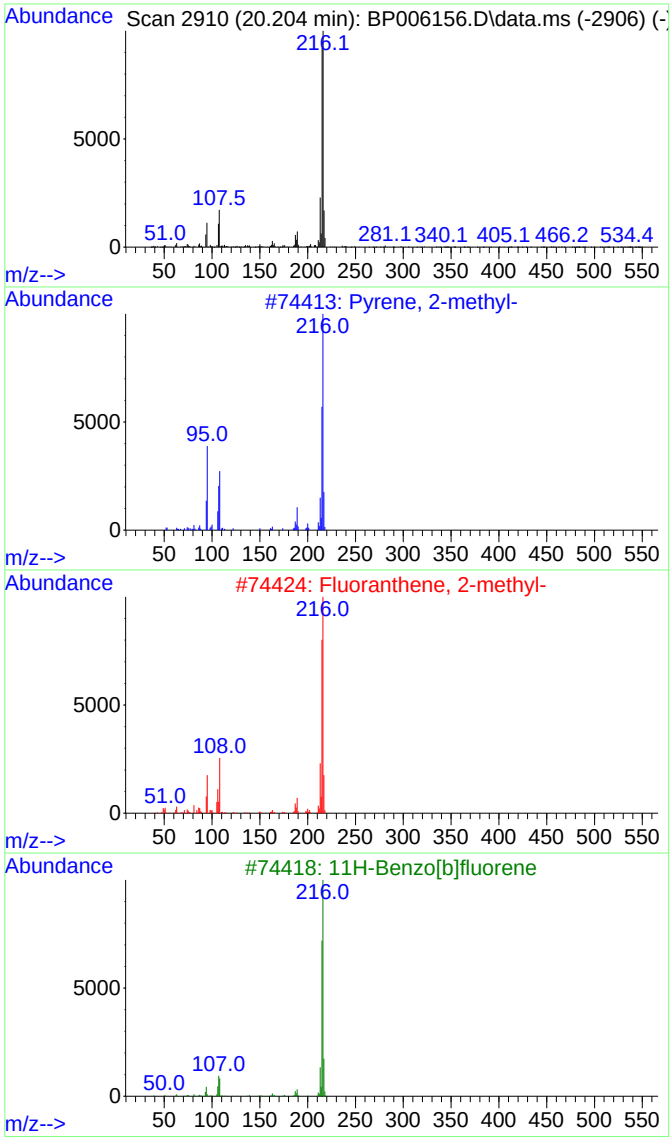
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

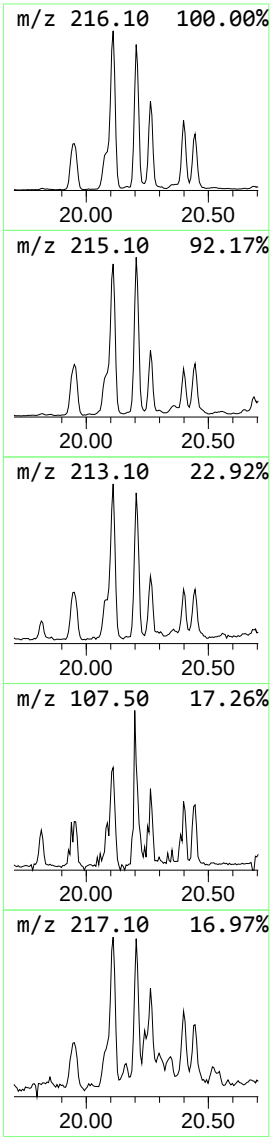
**********

Peak Number 15 Pyrene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.204 | 3.20 ng | 832866 | Chrysene-d12 | 21.351 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP070821\
Data File : BP006156.D
Acq On : 09 Jul 2021 00:24
Operator : CG/JU
Sample : M2956-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** RO-72-12000-ETGI-283

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070721.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 |
| Naphthalene, 1,... | 13.699 | 2.9 | ng | 305140 | 3 | 14.516 | 2112820 | 20.0 |
| Naphthalene, 2,... | 13.840 | 3.6 | ng | 379172 | 3 | 14.516 | 2112820 | 20.0 |
| Naphthalene, 2,... | 13.893 | 2.2 | ng | 234759 | 3 | 14.516 | 2112820 | 20.0 |
| 9H-Fluorene, 1-... | 16.569 | 3.0 | ng | 336559 | 4 | 17.269 | 2259720 | 20.0 |
| Naphtho[2,1-b]t... | 17.087 | 3.7 | ng | 415025 | 4 | 17.269 | 2259720 | 20.0 |
| Phenanthrene, 2... | 18.134 | 7.4 | ng | 833338 | 4 | 17.269 | 2259720 | 20.0 |
| Anthracene, 2-m... | 18.181 | 9.2 | ng | 1035010 | 4 | 17.269 | 2259720 | 20.0 |
| 1H-Cyclopropa[l... | 18.257 | 3.3 | ng | 368598 | 4 | 17.269 | 2259720 | 20.0 |
| 4H-Cyclopenta[d... | 18.322 | 13.0 | ng | 1466400 | 4 | 17.269 | 2259720 | 20.0 |
| Phenanthrene, 4... | 18.357 | 3.7 | ng | 419140 | 4 | 17.269 | 2259720 | 20.0 |
| 9,10-Bis(bromom... | 18.616 | 3.4 | ng | 380206 | 4 | 17.269 | 2259720 | 20.0 |
| 9,10-Dimethylan... | 19.016 | 5.9 | ng | 667741 | 4 | 17.269 | 2259720 | 20.0 |
| di-p-Tolylacety... | 19.157 | 2.4 | ng | 267633 | 4 | 17.269 | 2259720 | 20.0 |
| Fluoranthene, 2... | 20.110 | 5.5 | ng | 1431830 | 5 | 21.351 | 5204210 | 20.0 |
| Pyrene, 2-methyl- | 20.204 | 3.2 | ng | 832866 | 5 | 21.351 | 5204210 | 20.0 |