LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-E1-COMP

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_F\Methods\8270-BF120523.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136557.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.163 | 8 | 13 | 19 | rVB | 8803 | 13084 | 1.25% | 0.131% |
| 2 | 3.869 | 299 | 303 | 309 | rVB | 12107 | 16736 | 1.60% | 0.167% |
| 3 | 5.016 | 495 | 498 | 507 | rVB | 42357 | 45051 | 4.30% | 0.450% |
| 4 | 5.428 | 564 | 568 | 578 | rBV | 1018940 | 873800 | 83.46% | 8.719% |
| 5 | 6.434 | 735 | 739 | 748 | rBV | 1016803 | 875064 | 83.58% | 8.732% |
| 6 | 6.792 | 797 | 800 | 804 | rBV | 498943 | 403743 | 38.56% | 4.029% |
| 7 | 7.351 | 891 | 895 | 898 | rBV | 732896 | 569424 | 54.39% | 5.682% |
| 8 | 8.069 | 1014 | 1017 | 1020 | rBV | 617259 | 486470 | 46.47% | 4.854% |
| 9 | 9.145 | 1197 | 1200 | 1212 | rBV | 1280908 | 1046925 | 100.00% | 10.446% |
| 10 | 9.686 | 1287 | 1292 | 1298 | rBV | 18427 | 16822 | 1.61% | 0.168% |
| 11 | 9.828 | 1312 | 1316 | 1319 | rBV | 588794 | 464645 | 44.38% | 4.636% |
| 12 | 9.857 | 1319 | 1321 | 1326 | rVB | 29121 | 24705 | 2.36% | 0.247% |
| 13 | 10.033 | 1347 | 1351 | 1355 | rBV | 11743 | 12521 | 1.20% | 0.125% |
| 14 | 10.375 | 1406 | 1409 | 1416 | rVB | 24029 | 23437 | 2.24% | 0.234% |
| 15 | 10.616 | 1446 | 1450 | 1462 | rBV | 508896 | 445016 | 42.51% | 4.440% |
| 16 | 10.739 | 1469 | 1471 | 1480 | rVB7 | 8036 | 12397 | 1.18% | 0.124% |
| 17 | 11.216 | 1549 | 1552 | 1558 | rVB | 11253 | 12413 | 1.19% | 0.124% |
| 18 | 11.316 | 1566 | 1569 | 1571 | rBV | 501559 | 415744 | 39.71% | 4.148% |
| 19 | 11.339 | 1571 | 1573 | 1577 | rVV | 214655 | 175151 | 16.73% | 1.748% |
| 20 | 11.392 | 1579 | 1582 | 1586 | rVB | 56908 | 46643 | 4.46% | 0.465% |
| 21 | 11.822 | 1650 | 1655 | 1657 | rBV | 26318 | 23536 | 2.25% | 0.235% |
| 22 | 11.851 | 1657 | 1660 | 1665 | rVB | 54433 | 47324 | 4.52% | 0.472% |
| 23 | 11.898 | 1665 | 1668 | 1670 | rBV3 | 15540 | 13067 | 1.25% | 0.130% |
| 24 | 11.933 | 1670 | 1674 | 1677 | rBV | 48480 | 46805 | 4.47% | 0.467% |
| 25 | 12.027 | 1683 | 1690 | 1693 | rBV8 | 7317 | 13326 | 1.27% | 0.133% |
| 26 | 12.121 | 1702 | 1706 | 1708 | rBV | 16303 | 17492 | 1.67% | 0.175% |
| 27 | 12.374 | 1746 | 1749 | 1752 | rBV2 | 20357 | 24834 | 2.37% | 0.248% |
| 28 | 12.416 | 1752 | 1756 | 1760 | rVB3 | 14779 | 25286 | 2.42% | 0.252% |
| 29 | 12.457 | 1760 | 1763 | 1769 | rBV5 | 15225 | 19691 | 1.88% | 0.196% |
| 30 | 12.533 | 1773 | 1776 | 1780 | rBV | 348215 | 299263 | 28.58% | 2.986% |
| 31 | 12.580 | 1782 | 1784 | 1791 | rVB5 | 10623 | 16625 | 1.59% | 0.166% |
| 32 | 12.633 | 1791 | 1793 | 1796 | rBV3 | 10267 | 13080 | 1.25% | 0.131% |
| 33 | 12.763 | 1809 | 1815 | 1818 | rBV | 306086 | 318464 | 30.42% | 3.178% |
| 34 | 12.816 | 1822 | 1824 | 1829 | rVB3 | 16053 | 16280 | 1.56% | 0.162% |
| 35 | 12.910 | 1837 | 1840 | 1844 | rBV | 968904 | 903053 | 86.26% | 9.011% |
| 36 | 12.980 | 1848 | 1852 | 1856 | rBV3 | 24866 | 39164 | 3.74% | 0.391% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

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_F\Methods\8270-BF120523.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.074 | 1865 | 1868 | 1869 | rBV3 | 19486 | 22270 | 2.13% | 0.222% |
| 38 | 13.092 | 1869 | 1871 | 1875 | rVB | 55217 | 54632 | 5.22% | 0.545% |
| 39 | 13.163 | 1879 | 1883 | 1885 | rBV | 45970 | 46319 | 4.42% | 0.462% |
| 40 | 13.198 | 1885 | 1889 | 1892 | rBV2 | 40926 | 38829 | 3.71% | 0.387% |
| 41 | 13.292 | 1902 | 1905 | 1908 | rBV | 22214 | 16906 | 1.61% | 0.169% |
| 42 | 13.321 | 1908 | 1910 | 1914 | rBV2 | 22047 | 24025 | 2.29% | 0.240% |
| 43 | 13.604 | 1956 | 1958 | 1962 | rVB | 18956 | 24015 | 2.29% | 0.240% |
| 44 | 13.716 | 1974 | 1977 | 1980 | rBV3 | 24065 | 28511 | 2.72% | 0.284% |
| 45 | 13.745 | 1980 | 1982 | 1984 | rBV | 27690 | 21248 | 2.03% | 0.212% |
| 46 | 13.768 | 1984 | 1986 | 1987 | rBV | 18550 | 13346 | 1.27% | 0.133% |
| 47 | 13.821 | 1992 | 1995 | 1998 | rVB2 | 21349 | 28511 | 2.72% | 0.284% |
| 48 | 13.968 | 2015 | 2020 | 2023 | rBV2 | 585939 | 682621 | 65.20% | 6.811% |
| 49 | 13.992 | 2023 | 2024 | 2028 | rVB | 151195 | 120670 | 11.53% | 1.204% |
| 50 | 14.074 | 2036 | 2038 | 2041 | rVB2 | 36912 | 32364 | 3.09% | 0.323% |
| 51 | 14.145 | 2048 | 2050 | 2052 | rBV2 | 24436 | 18131 | 1.73% | 0.181% |
| 52 | 14.451 | 2099 | 2102 | 2104 | rBV3 | 41930 | 38362 | 3.66% | 0.383% |
| 53 | 14.480 | 2106 | 2107 | 2109 | rBV2 | 22126 | 18665 | 1.78% | 0.186% |
| 54 | 14.833 | 2165 | 2167 | 2170 | rBV3 | 31385 | 31983 | 3.05% | 0.319% |
| 55 | 15.015 | 2194 | 2198 | 2201 | rBV | 167000 | 235477 | 22.49% | 2.350% |
| 56 | 15.321 | 2247 | 2250 | 2255 | rVB | 87918 | 102610 | 9.80% | 1.024% |
| 57 | 15.386 | 2257 | 2261 | 2264 | rBV | 118567 | 141326 | 13.50% | 1.410% |
| 58 | 15.451 | 2267 | 2272 | 2276 | rBV | 302161 | 378933 | 36.19% | 3.781% |
| 59 | 16.951 | 2522 | 2527 | 2533 | rVB2 | 41525 | 85032 | 8.12% | 0.848% |

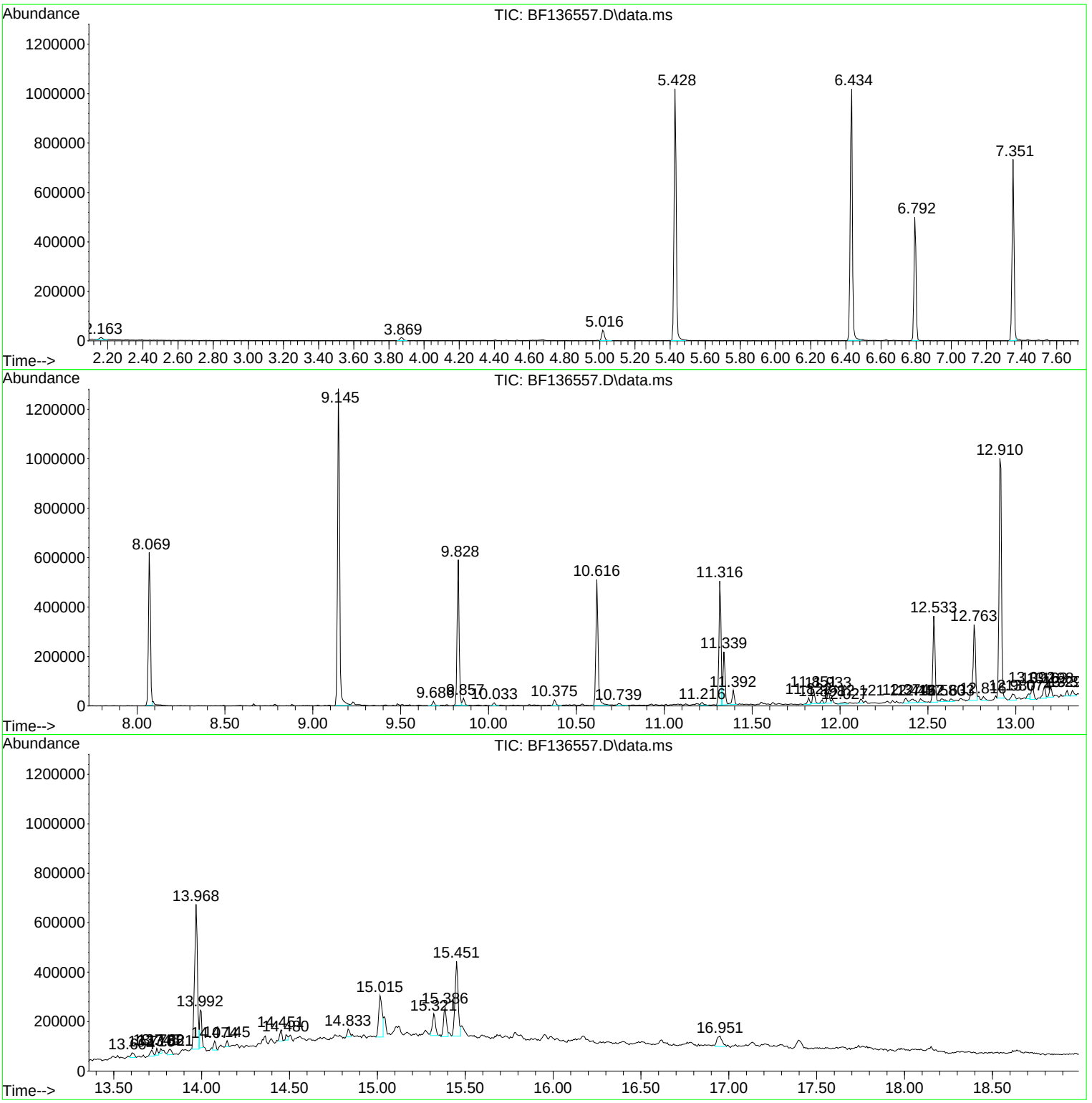
Sum of corrected areas: 10021867

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.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_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

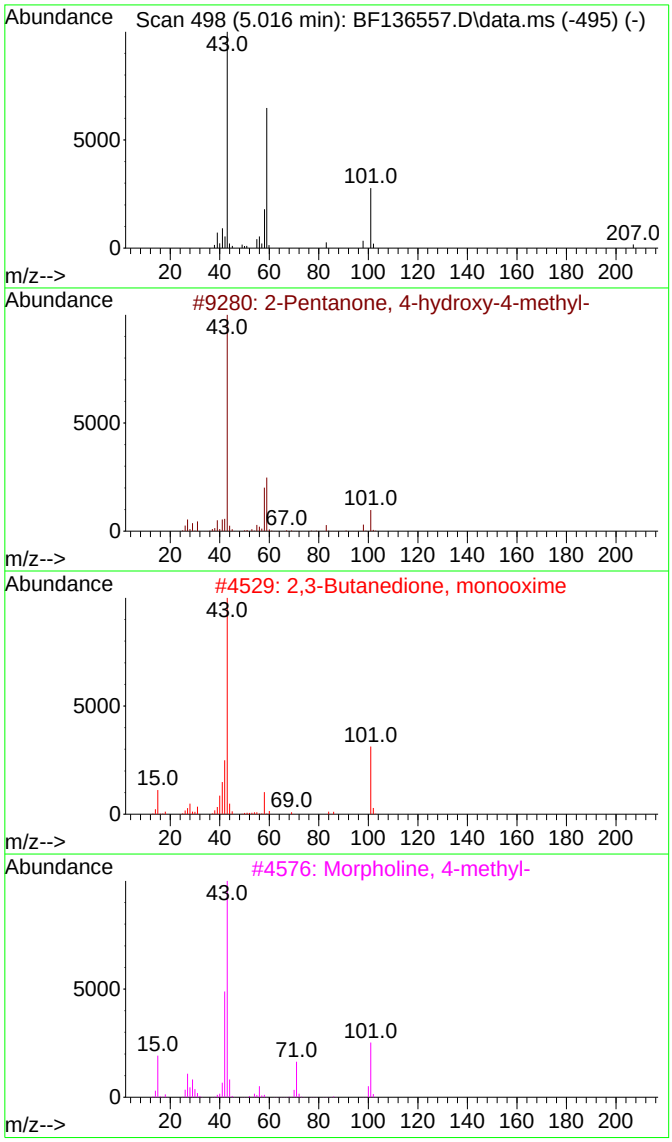
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

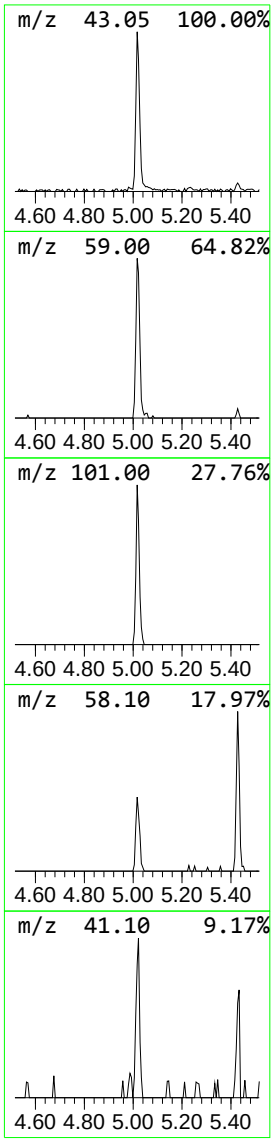
**********

Peak Number 1 unknown5.016 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.016 | 2.23 ng | 45051 | 1,4-Dichlorobenzene-d4 | 6.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 43 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 32 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

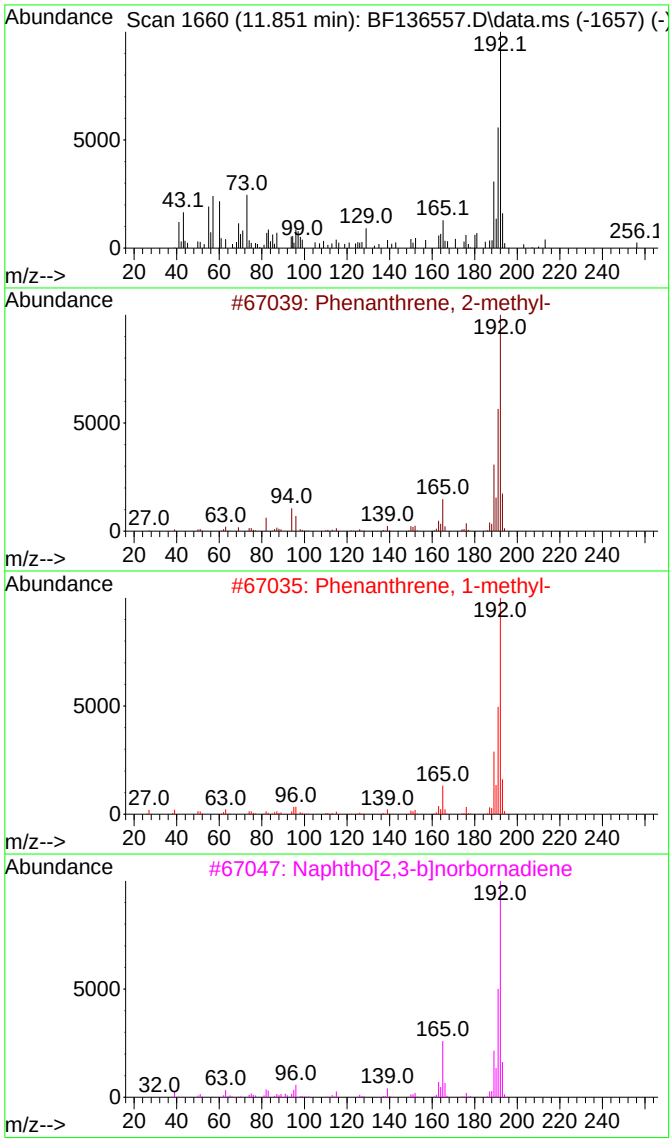
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

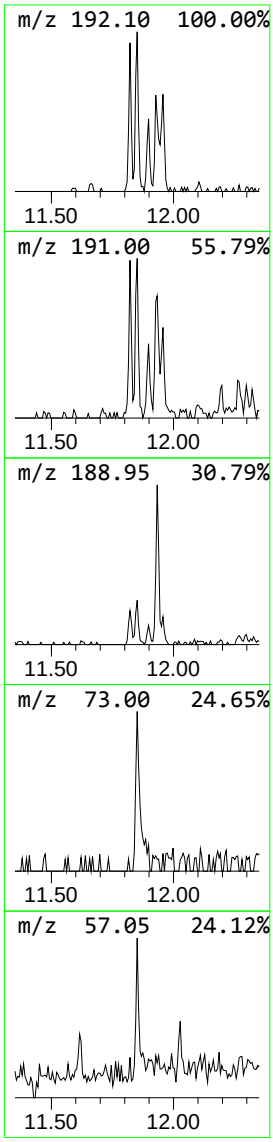
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.851 | 2.28 ng | 47324 | Phenanthrene-d10 | 11.316 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 92 |
| 3 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 91 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

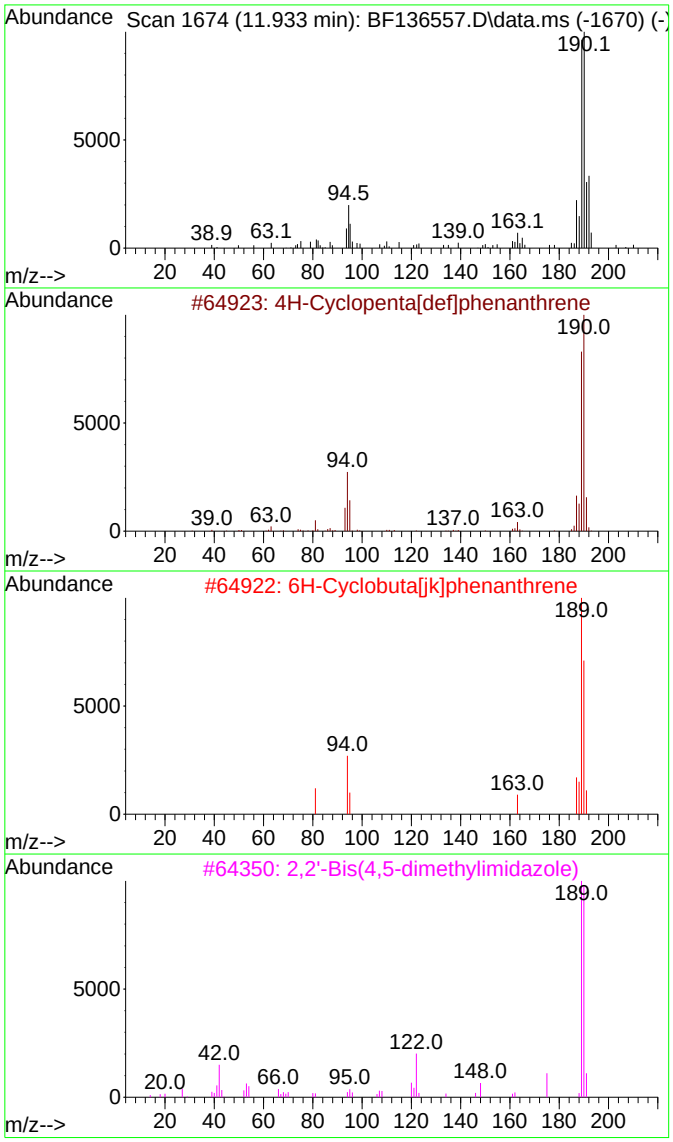
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

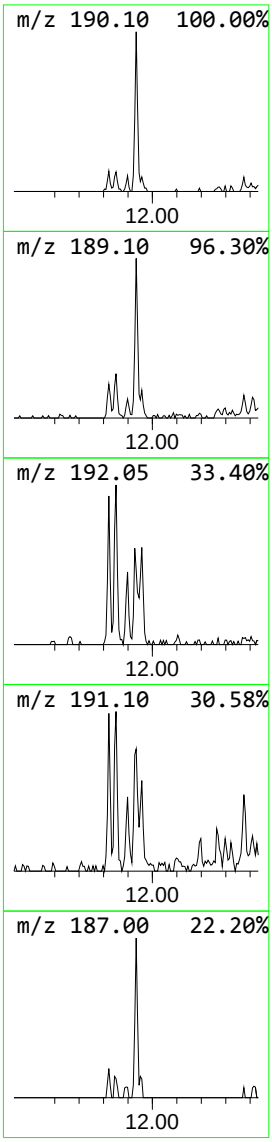
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.933 | 2.25 ng | 46805 | Phenanthrene-d10 | 11.316 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 59 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 50 |
| 4 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 47 |
| 5 | 1,2,3,4,5,6,7,8,9,10-Decahydro-5... | 190 | C13H18O | 1000497-99-6 | 27 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

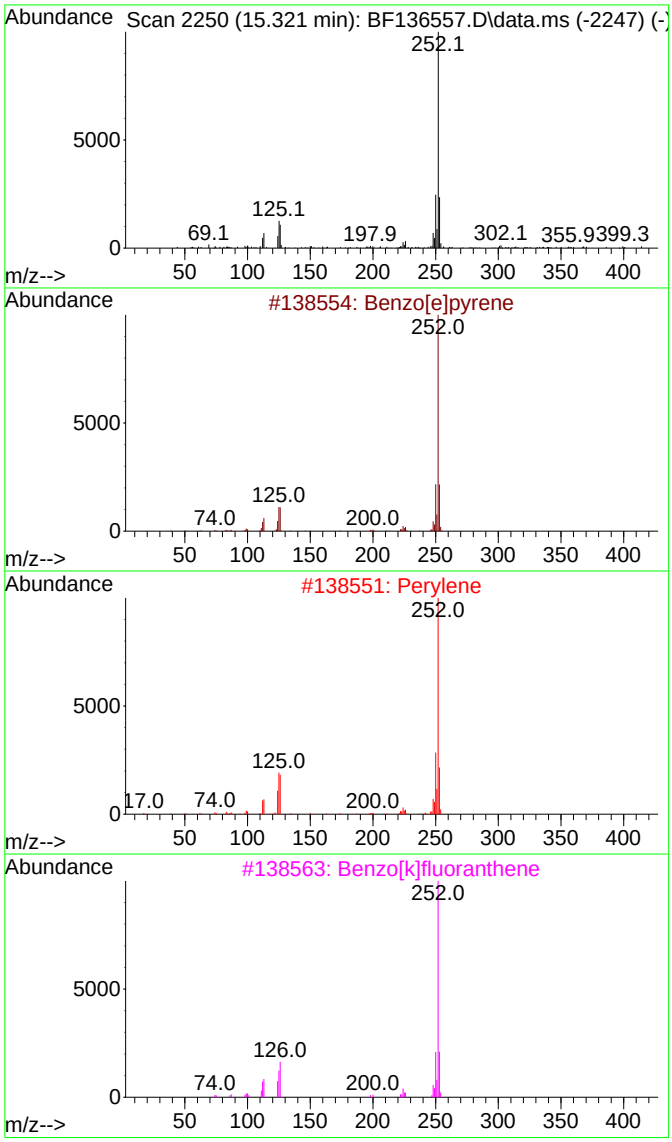
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

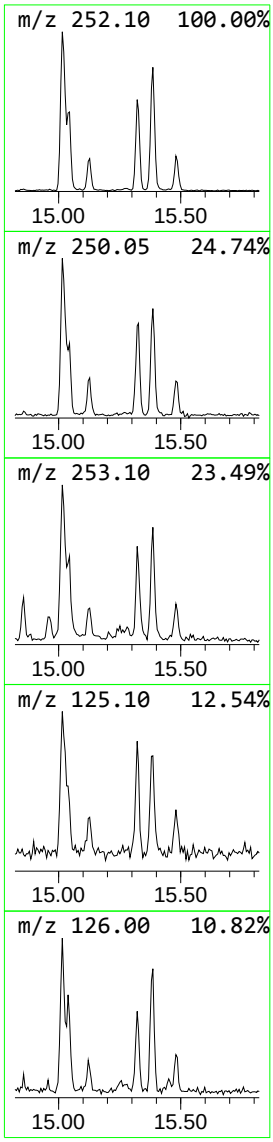
**********

Peak Number 4 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.321 | 5.42 ng | 102610 | Perylene-d12 | 15.451 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 95 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136557.D
Acq On : 14 Dec 2023 01:32
Operator : CG\JU
Sample : 05767-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-E1-COMP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.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 |
| unknown5.016 | 5.016 | 2.2 | ng | 45051 | 1 | 6.792 | 403743 | 20.0 |
| Phenanthrene, 2... | 11.851 | 2.3 | ng | 47324 | 4 | 11.316 | 415744 | 20.0 |
| 4H-Cyclopenta[d... | 11.933 | 2.3 | ng | 46805 | 4 | 11.316 | 415744 | 20.0 |
| Benzo[e]pyrene | 15.321 | 5.4 | ng | 102610 | 6 | 15.451 | 378933 | 20.0 |