LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

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-BF102318.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 | 2.269 | 26 | 31 | 37 | rVB | 188845 | 252041 | 15.39% | 1.264% |
| 2 | 5.192 | 524 | 528 | 536 | rBV | 59491 | 66091 | 4.04% | 0.331% |
| 3 | 5.581 | 590 | 594 | 598 | rBV | 1504098 | 1422830 | 86.89% | 7.136% |
| 4 | 6.586 | 760 | 765 | 779 | rBV2 | 1552521 | 1637478 | 100.00% | 8.212% |
| 5 | 6.734 | 786 | 790 | 794 | rBV | 1776230 | 1466917 | 89.58% | 7.357% |
| 6 | 6.969 | 826 | 830 | 833 | rBV | 1031722 | 816936 | 49.89% | 4.097% |
| 7 | 7.122 | 852 | 856 | 860 | rBV | 1346004 | 1126550 | 68.80% | 5.650% |
| 8 | 7.528 | 921 | 925 | 928 | rBV | 952362 | 793707 | 48.47% | 3.981% |
| 9 | 8.251 | 1044 | 1048 | 1055 | rBV | 1188720 | 992323 | 60.60% | 4.977% |
| 10 | 9.322 | 1227 | 1230 | 1234 | rBV | 1733526 | 1421491 | 86.81% | 7.129% |
| 11 | 9.663 | 1285 | 1288 | 1291 | rBV | 14622 | 17209 | 1.05% | 0.086% |
| 12 | 9.716 | 1294 | 1297 | 1303 | rVB | 204042 | 163942 | 10.01% | 0.822% |
| 13 | 9.874 | 1320 | 1324 | 1328 | rBV | 42150 | 41528 | 2.54% | 0.208% |
| 14 | 10.010 | 1344 | 1347 | 1351 | rBV | 1061581 | 913802 | 55.81% | 4.583% |
| 15 | 10.045 | 1351 | 1353 | 1361 | rVB | 56426 | 49829 | 3.04% | 0.250% |
| 16 | 10.216 | 1376 | 1382 | 1385 | rBV2 | 27746 | 28285 | 1.73% | 0.142% |
| 17 | 10.422 | 1412 | 1417 | 1420 | rBV3 | 19142 | 27734 | 1.69% | 0.139% |
| 18 | 10.557 | 1437 | 1440 | 1447 | rVB | 46669 | 52661 | 3.22% | 0.264% |
| 19 | 10.645 | 1449 | 1455 | 1457 | rVV3 | 19499 | 23570 | 1.44% | 0.118% |
| 20 | 10.798 | 1478 | 1481 | 1495 | rVB | 782112 | 725570 | 44.31% | 3.639% |
| 21 | 10.910 | 1495 | 1500 | 1506 | rBV5 | 39341 | 62853 | 3.84% | 0.315% |
| 22 | 11.233 | 1551 | 1555 | 1557 | rBV4 | 14102 | 22127 | 1.35% | 0.111% |
| 23 | 11.263 | 1557 | 1560 | 1565 | rVB3 | 19186 | 24975 | 1.53% | 0.125% |
| 24 | 11.351 | 1572 | 1575 | 1577 | rBV | 34231 | 32866 | 2.01% | 0.165% |
| 25 | 11.504 | 1597 | 1601 | 1603 | rBV | 1048049 | 868742 | 53.05% | 4.357% |
| 26 | 11.527 | 1603 | 1605 | 1609 | rVV | 407881 | 322477 | 19.69% | 1.617% |
| 27 | 11.580 | 1611 | 1614 | 1617 | rVV | 118443 | 109168 | 6.67% | 0.548% |
| 28 | 11.616 | 1617 | 1620 | 1625 | rVB4 | 18961 | 29495 | 1.80% | 0.148% |
| 29 | 11.733 | 1636 | 1640 | 1645 | rBV | 35332 | 50905 | 3.11% | 0.255% |
| 30 | 11.774 | 1645 | 1647 | 1649 | rVV | 28218 | 21938 | 1.34% | 0.110% |
| 31 | 11.833 | 1655 | 1657 | 1661 | rVB2 | 19965 | 21906 | 1.34% | 0.110% |
| 32 | 12.004 | 1683 | 1686 | 1689 | rBV2 | 89444 | 95374 | 5.82% | 0.478% |
| 33 | 12.033 | 1689 | 1691 | 1695 | rVB | 102916 | 85191 | 5.20% | 0.427% |
| 34 | 12.080 | 1696 | 1699 | 1702 | rBV | 45973 | 46833 | 2.86% | 0.235% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.121 | 1702 | 1706 | 1708 | rVV2 | 105047 | 123592 | 7.55% | 0.620% |
| 36 | 12.139 | 1708 | 1709 | 1714 | rVB | 50611 | 41406 | 2.53% | 0.208% |
| 37 | 12.186 | 1714 | 1717 | 1719 | rBV | 48969 | 43916 | 2.68% | 0.220% |
| 38 | 12.298 | 1733 | 1736 | 1739 | rBV | 49772 | 49214 | 3.01% | 0.247% |
| 39 | 12.327 | 1739 | 1741 | 1745 | rVB3 | 34593 | 31580 | 1.93% | 0.158% |
| 40 | 12.433 | 1756 | 1759 | 1760 | rBV3 | 19581 | 18975 | 1.16% | 0.095% |
| 41 | 12.557 | 1776 | 1780 | 1781 | rBV | 63896 | 68692 | 4.19% | 0.345% |
| 42 | 12.574 | 1781 | 1783 | 1788 | rVV3 | 51668 | 75861 | 4.63% | 0.380% |
| 43 | 12.645 | 1792 | 1795 | 1798 | rBV2 | 54327 | 59340 | 3.62% | 0.298% |
| 44 | 12.721 | 1804 | 1808 | 1812 | rBV | 789265 | 692046 | 42.26% | 3.471% |
| 45 | 12.815 | 1821 | 1824 | 1826 | rBV2 | 39628 | 39785 | 2.43% | 0.200% |
| 46 | 12.951 | 1841 | 1847 | 1853 | rBV | 680589 | 780574 | 47.67% | 3.915% |
| 47 | 12.998 | 1853 | 1855 | 1858 | rBV3 | 37675 | 43420 | 2.65% | 0.218% |
| 48 | 13.086 | 1867 | 1870 | 1873 | rVB | 1437660 | 1140222 | 69.63% | 5.718% |
| 49 | 13.168 | 1880 | 1884 | 1888 | rBV2 | 56756 | 113085 | 6.91% | 0.567% |
| 50 | 13.280 | 1900 | 1903 | 1905 | rVB | 73990 | 66603 | 4.07% | 0.334% |
| 51 | 13.304 | 1905 | 1907 | 1909 | rVB | 55784 | 37901 | 2.31% | 0.190% |
| 52 | 13.345 | 1912 | 1914 | 1916 | rVB | 72623 | 52451 | 3.20% | 0.263% |
| 53 | 13.380 | 1918 | 1920 | 1923 | rVB2 | 54914 | 53733 | 3.28% | 0.269% |
| 54 | 13.645 | 1963 | 1965 | 1967 | rBV | 52334 | 37649 | 2.30% | 0.189% |
| 55 | 13.974 | 2019 | 2021 | 2024 | rBV3 | 105122 | 102531 | 6.26% | 0.514% |
| 56 | 14.109 | 2042 | 2044 | 2047 | rBV | 170404 | 141178 | 8.62% | 0.708% |
| 57 | 14.151 | 2047 | 2051 | 2054 | rVV2 | 892880 | 1039638 | 63.49% | 5.214% |
| 58 | 14.180 | 2054 | 2056 | 2061 | rVB | 250705 | 212555 | 12.98% | 1.066% |
| 59 | 15.221 | 2231 | 2233 | 2237 | rBV | 146330 | 199231 | 12.17% | 0.999% |
| 60 | 15.615 | 2297 | 2300 | 2306 | rVB | 168337 | 221570 | 13.53% | 1.111% |
| 61 | 15.680 | 2307 | 2311 | 2315 | rBV | 473529 | 617180 | 37.69% | 3.095% |

Sum of corrected areas: 19939272

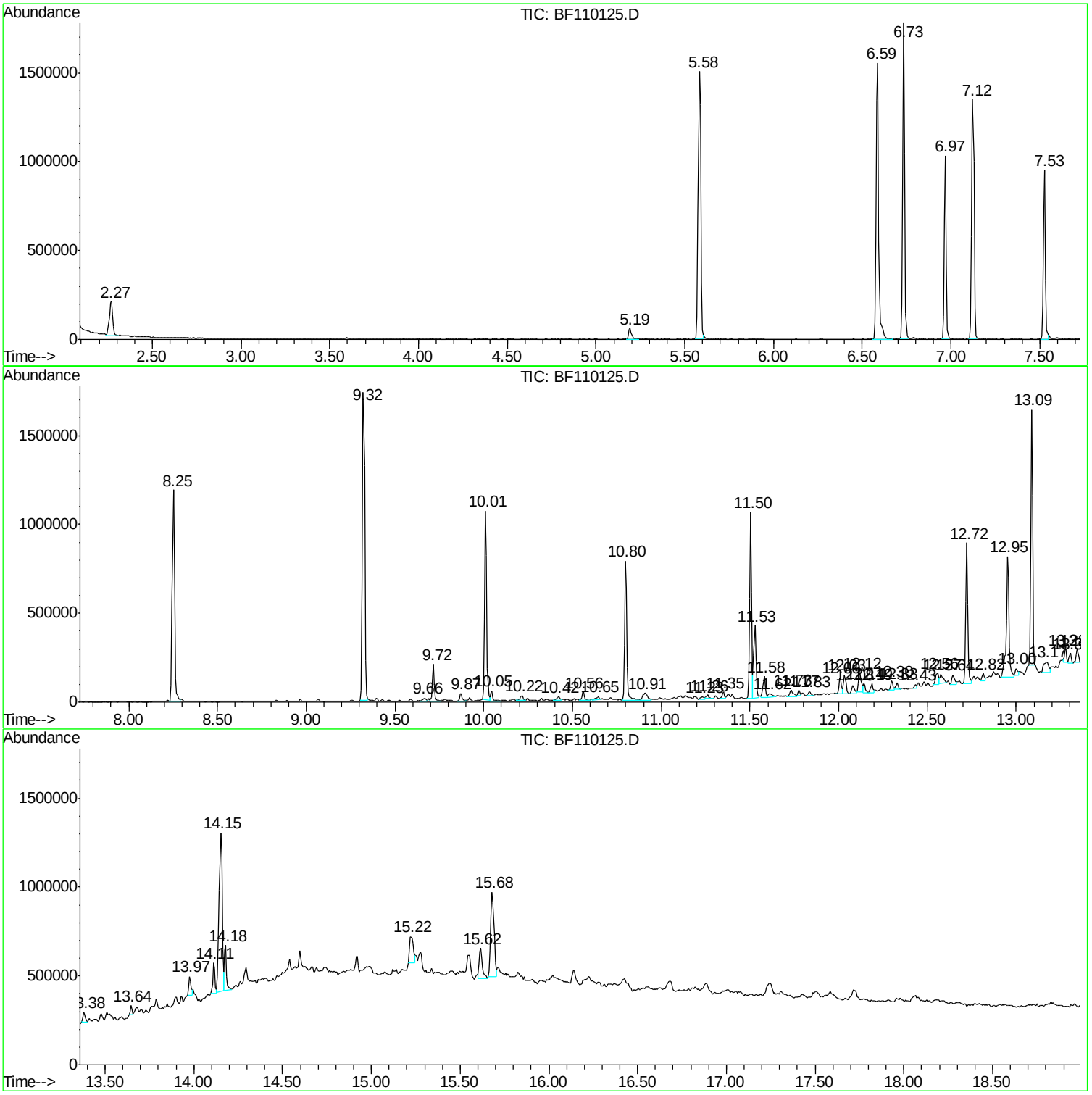
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

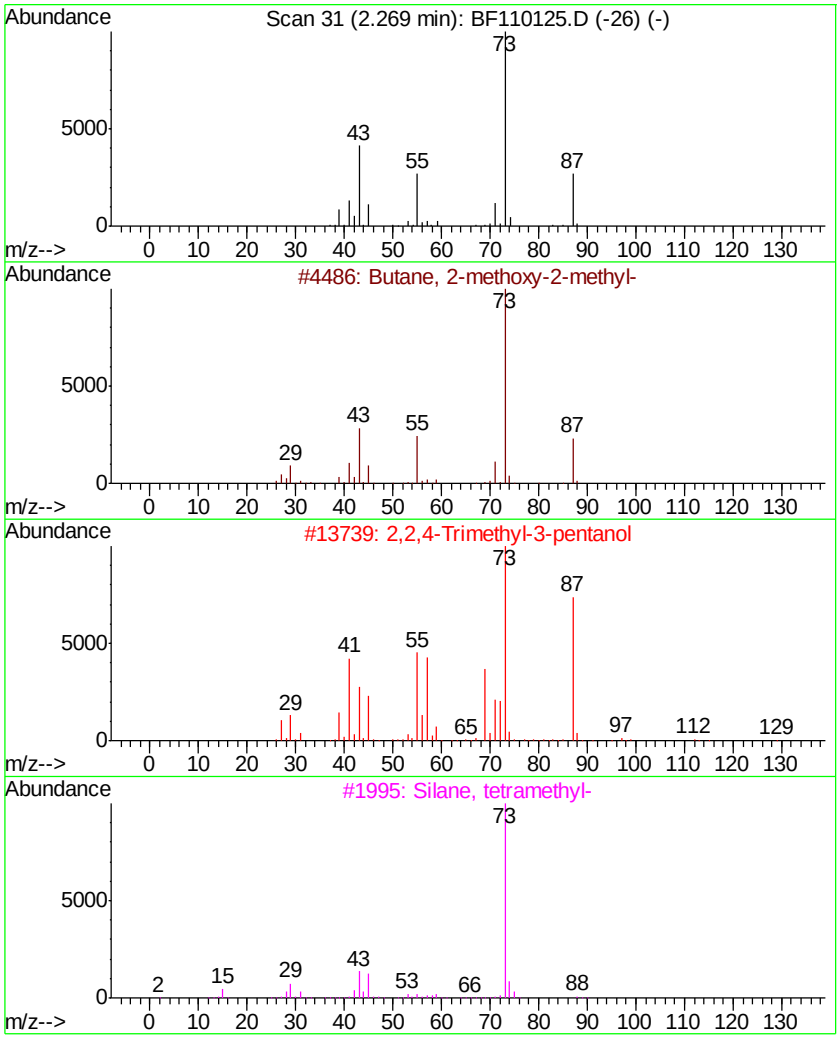
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

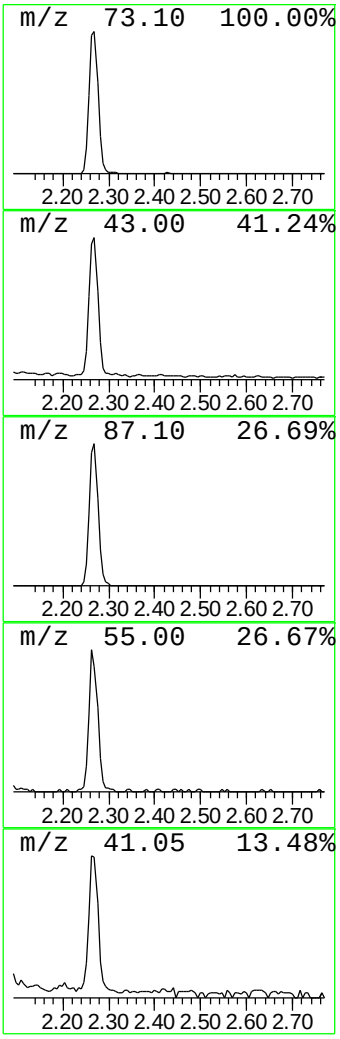
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.27 | 6.17 ng | 252041 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 35 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

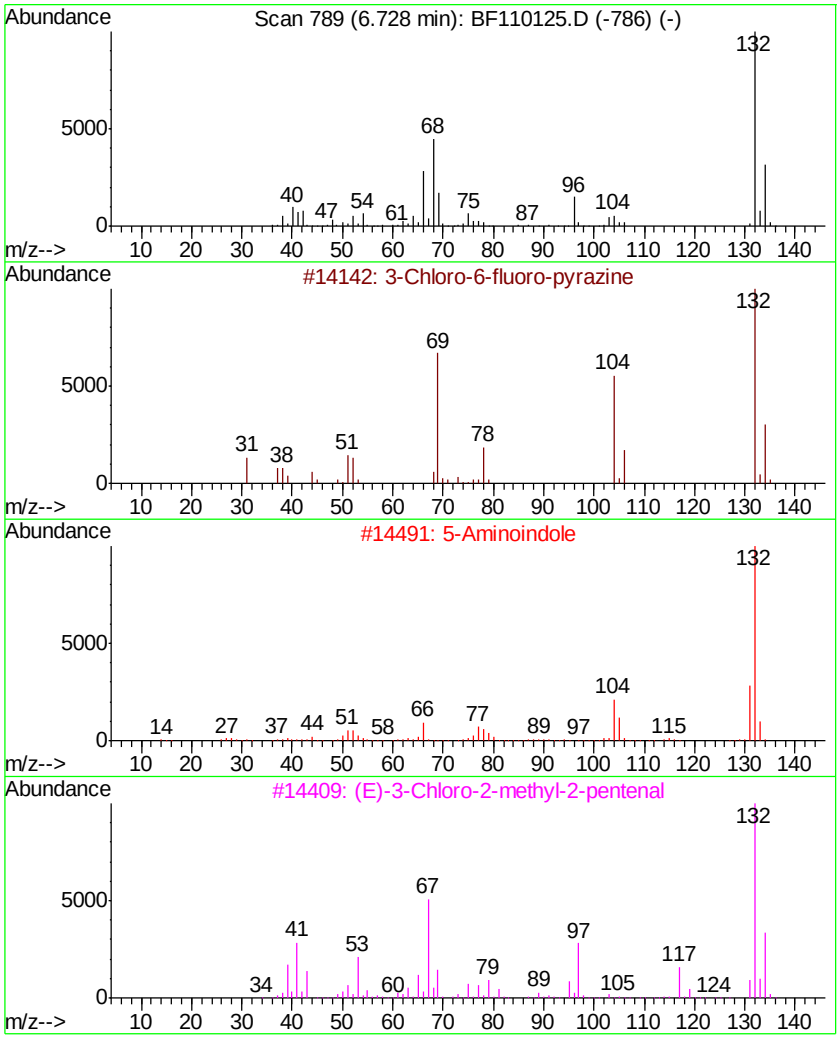
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

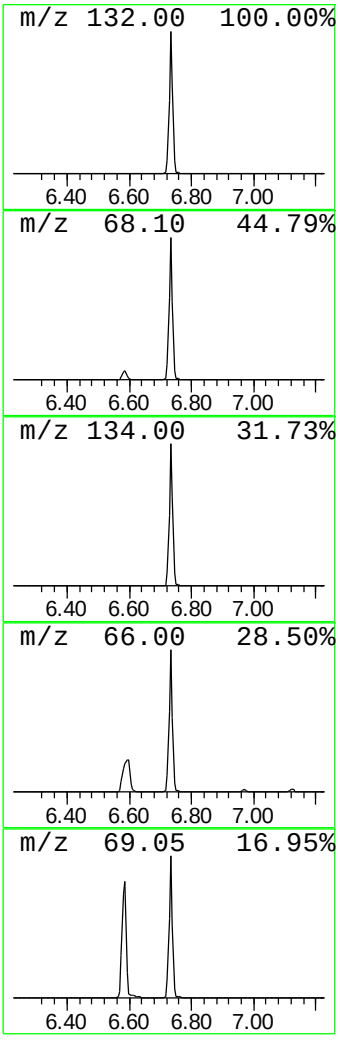
**********

Peak Number 2 unknown6.73 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.73 | 35.91 ng | 1466920 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

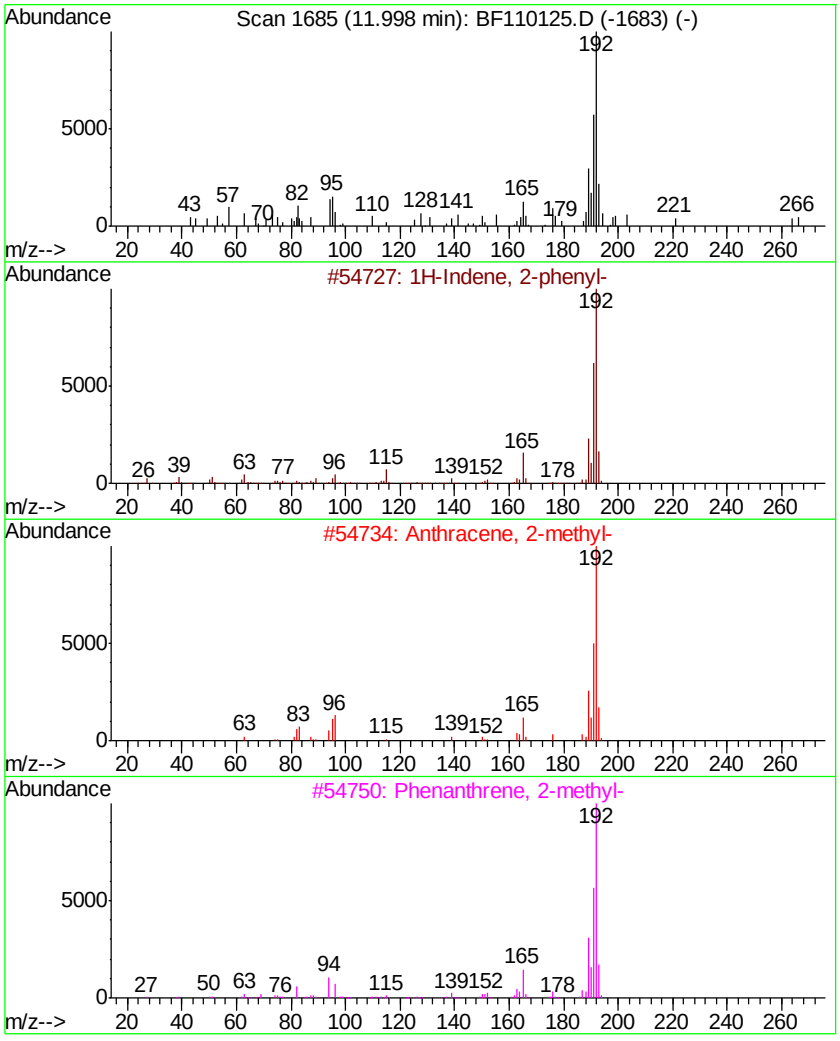
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

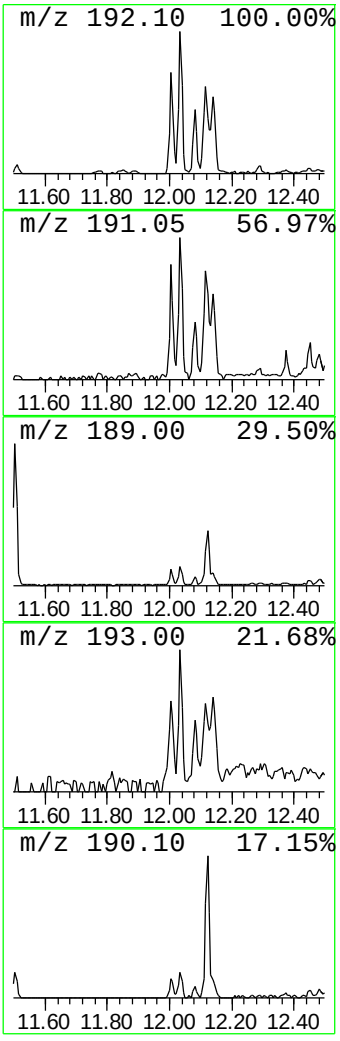
**********

Peak Number 4 1H-Indene, 2-phenyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 2.20 ng | 95374 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 92 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 90 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

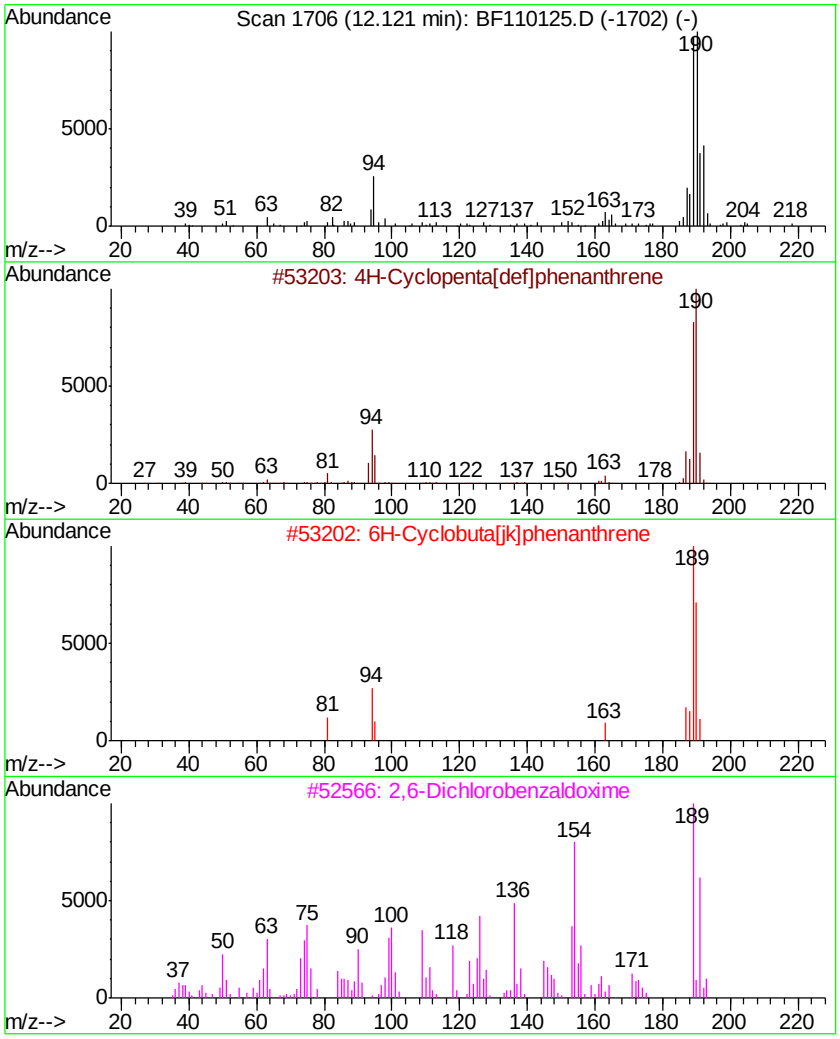
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

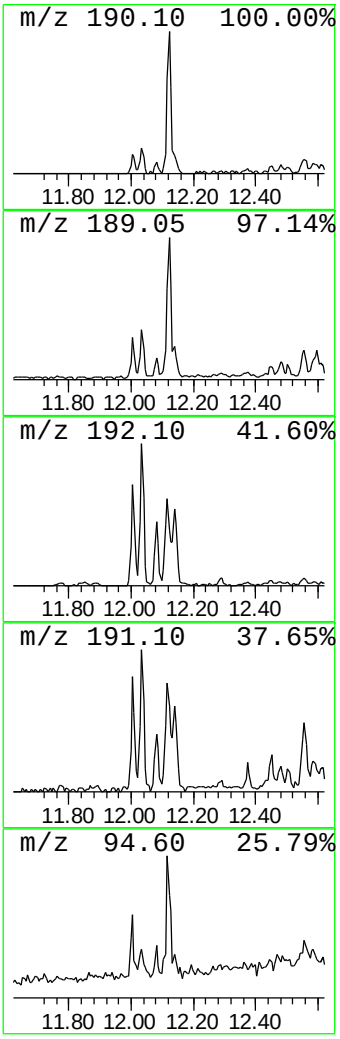
**********

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 2.85 ng | 123592 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 59 |
| 3 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 38 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 38 |
| 5 | Pyrimidine, 2-chloro-5-phenyl- | 190 | C10H7ClN2 | 022536-62-5 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
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Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

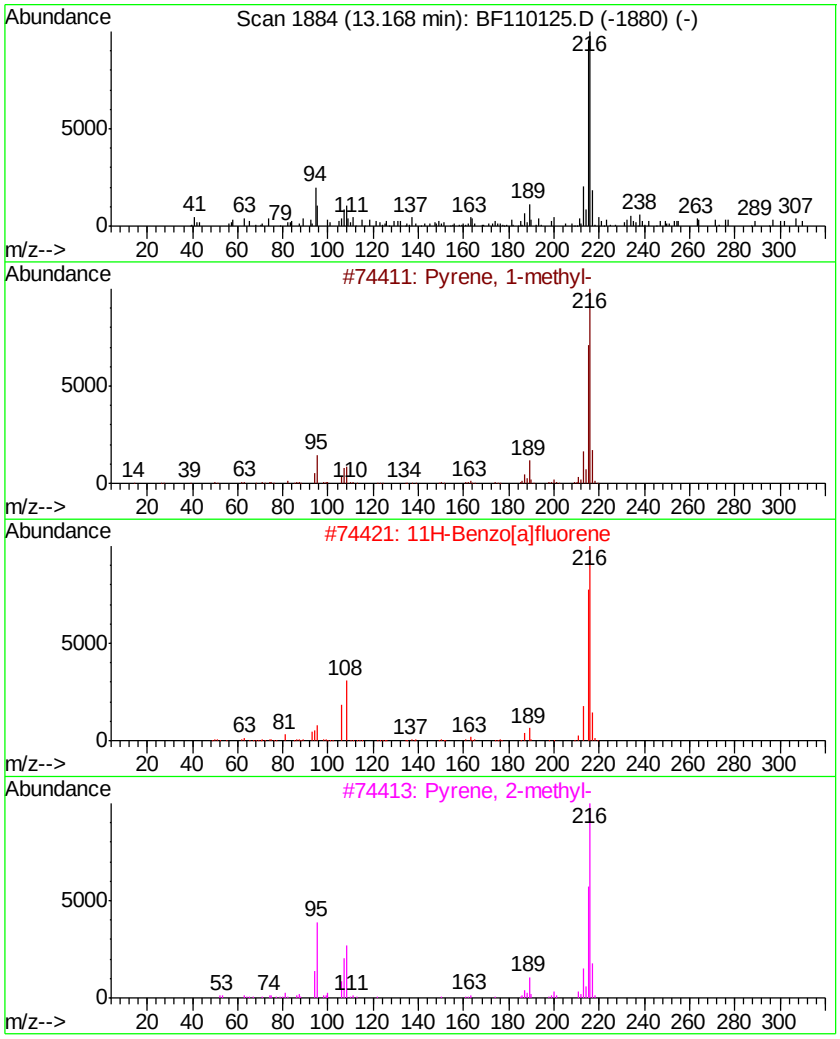
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

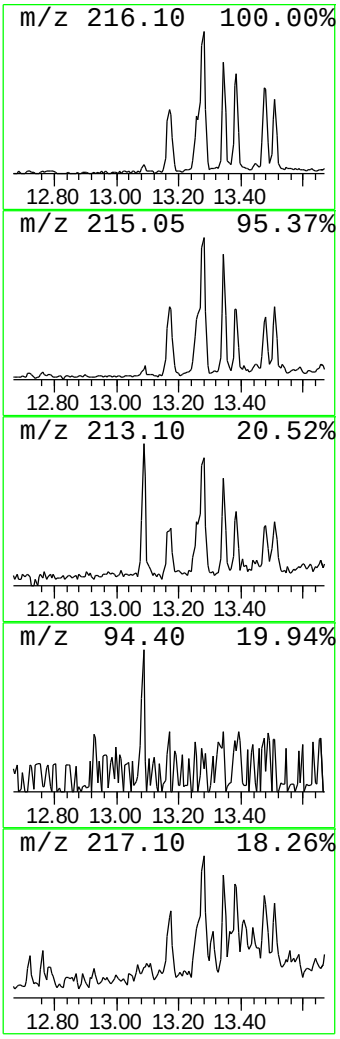
**********

Peak Number 6 Pyrene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.17 | 2.18 ng | 113085 | Chrysene-d12 | 14.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 81 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 74 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 62 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 58 |
| 5 | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102418\
Data File : BF110125.D
Acq On : 24 Oct 2018 19:55
Operator : JU/SJ
Sample : J5198-29 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-102318-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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 |
| Butane, 2-methoxy... | 2.27 | 6.2 | ng | 252041 | 1 | 6.97 | 816936 | 20.0 |
| unknown6.73 | 6.73 | 35.9 | ng | 1466920 | 1 | 6.97 | 816936 | 20.0 |
| 1H-Indene, 2-phenyl- | 12.00 | 2.2 | ng | 95374 | 4 | 11.50 | 868742 | 20.0 |
| 4H-Cyclopenta[def... | 12.12 | 2.9 | ng | 123592 | 4 | 11.50 | 868742 | 20.0 |
| Pyrene, 1-methyl- | 13.17 | 2.2 | ng | 113085 | 5 | 14.15 | 1039640 | 20.0 |