LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

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-BF022020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.275 | 369 | 372 | 390 | rBV | 52173 | 81707 | 7.80% | 0.740% |
| 2 | 4.916 | 478 | 481 | 491 | rBV | 97197 | 112090 | 10.70% | 1.015% |
| 3 | 5.375 | 556 | 559 | 567 | rBV | 40721 | 64139 | 6.12% | 0.581% |
| 4 | 6.387 | 728 | 731 | 749 | rBV | 159346 | 223188 | 21.30% | 2.020% |
| 5 | 6.734 | 787 | 790 | 806 | rBV | 807555 | 707568 | 67.54% | 6.405% |
| 6 | 6.893 | 813 | 817 | 825 | rBV | 330709 | 287901 | 27.48% | 2.606% |
| 7 | 7.298 | 883 | 886 | 897 | rBV | 171211 | 177510 | 16.94% | 1.607% |
| 8 | 8.016 | 1003 | 1008 | 1018 | rBV | 1053657 | 942808 | 89.99% | 8.535% |
| 9 | 8.834 | 1143 | 1147 | 1152 | rVB2 | 16720 | 19776 | 1.89% | 0.179% |
| 10 | 9.092 | 1187 | 1191 | 1196 | rBV | 446261 | 415981 | 39.71% | 3.766% |
| 11 | 9.175 | 1202 | 1205 | 1207 | rBV | 33232 | 30646 | 2.93% | 0.277% |
| 12 | 9.210 | 1207 | 1211 | 1215 | rVB2 | 75937 | 73882 | 7.05% | 0.669% |
| 13 | 9.363 | 1232 | 1237 | 1240 | rBV2 | 18463 | 23956 | 2.29% | 0.217% |
| 14 | 9.428 | 1245 | 1248 | 1251 | rVV | 30028 | 32438 | 3.10% | 0.294% |
| 15 | 9.486 | 1255 | 1258 | 1262 | rVV2 | 30680 | 40583 | 3.87% | 0.367% |
| 16 | 9.551 | 1266 | 1269 | 1272 | rBV3 | 17171 | 18922 | 1.81% | 0.171% |
| 17 | 9.633 | 1279 | 1283 | 1287 | rBV | 26727 | 27139 | 2.59% | 0.246% |
| 18 | 9.704 | 1293 | 1295 | 1299 | rVB | 26341 | 19975 | 1.91% | 0.181% |
| 19 | 9.769 | 1302 | 1306 | 1310 | rVV | 1183437 | 990704 | 94.57% | 8.969% |
| 20 | 9.798 | 1310 | 1311 | 1316 | rVB | 43368 | 42117 | 4.02% | 0.381% |
| 21 | 9.875 | 1322 | 1324 | 1328 | rVB3 | 14058 | 15117 | 1.44% | 0.137% |
| 22 | 9.975 | 1337 | 1341 | 1345 | rBV | 38718 | 37103 | 3.54% | 0.336% |
| 23 | 10.016 | 1345 | 1348 | 1354 | rVB3 | 17325 | 23211 | 2.22% | 0.210% |
| 24 | 10.086 | 1357 | 1360 | 1363 | rBV2 | 15980 | 18895 | 1.80% | 0.171% |
| 25 | 10.175 | 1372 | 1375 | 1377 | rBV2 | 14382 | 17522 | 1.67% | 0.159% |
| 26 | 10.204 | 1377 | 1380 | 1382 | rVB2 | 43999 | 37278 | 3.56% | 0.337% |
| 27 | 10.316 | 1395 | 1399 | 1404 | rBV2 | 54185 | 62078 | 5.93% | 0.562% |
| 28 | 10.428 | 1415 | 1418 | 1423 | rVB2 | 20188 | 22918 | 2.19% | 0.207% |
| 29 | 10.475 | 1423 | 1426 | 1429 | rVB2 | 21381 | 21223 | 2.03% | 0.192% |
| 30 | 10.675 | 1457 | 1460 | 1467 | rVB3 | 57787 | 84668 | 8.08% | 0.766% |
| 31 | 10.863 | 1488 | 1492 | 1494 | rBV4 | 24615 | 26608 | 2.54% | 0.241% |
| 32 | 10.892 | 1494 | 1497 | 1500 | rVB3 | 15415 | 18460 | 1.76% | 0.167% |
| 33 | 11.063 | 1523 | 1526 | 1530 | rVV | 25054 | 28408 | 2.71% | 0.257% |
| 34 | 11.122 | 1530 | 1536 | 1539 | rVV3 | 58222 | 69516 | 6.64% | 0.629% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

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-BF022020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.151 | 1539 | 1541 | 1546 | rVB | 63219 | 58540 | 5.59% | 0.530% |
| 36 | 11.251 | 1555 | 1558 | 1561 | rBV | 1032804 | 969408 | 92.53% | 8.776% |
| 37 | 11.275 | 1561 | 1562 | 1566 | rVV | 420042 | 333972 | 31.88% | 3.023% |
| 38 | 11.328 | 1569 | 1571 | 1575 | rVV | 67851 | 66153 | 6.31% | 0.599% |
| 39 | 11.369 | 1575 | 1578 | 1581 | rVV2 | 23440 | 22043 | 2.10% | 0.200% |
| 40 | 11.492 | 1595 | 1599 | 1603 | rBV | 48580 | 66250 | 6.32% | 0.600% |
| 41 | 11.545 | 1606 | 1608 | 1612 | rVV | 59118 | 52783 | 5.04% | 0.478% |
| 42 | 11.586 | 1612 | 1615 | 1620 | rVB2 | 28257 | 38916 | 3.71% | 0.352% |
| 43 | 11.710 | 1634 | 1636 | 1640 | rBV4 | 14233 | 22225 | 2.12% | 0.201% |
| 44 | 11.757 | 1641 | 1644 | 1646 | rVV | 73679 | 75806 | 7.24% | 0.686% |
| 45 | 11.780 | 1646 | 1648 | 1652 | rVV | 94008 | 104105 | 9.94% | 0.942% |
| 46 | 11.833 | 1654 | 1657 | 1659 | rVV | 21936 | 26581 | 2.54% | 0.241% |
| 47 | 11.869 | 1659 | 1663 | 1665 | rVV2 | 88414 | 106622 | 10.18% | 0.965% |
| 48 | 11.886 | 1665 | 1666 | 1670 | rVB | 50759 | 43071 | 4.11% | 0.390% |
| 49 | 11.951 | 1675 | 1677 | 1681 | rVV | 54071 | 54899 | 5.24% | 0.497% |
| 50 | 11.992 | 1681 | 1684 | 1686 | rVB | 20092 | 18469 | 1.76% | 0.167% |
| 51 | 12.051 | 1691 | 1694 | 1696 | rBV | 39259 | 41284 | 3.94% | 0.374% |
| 52 | 12.080 | 1697 | 1699 | 1702 | rVB | 42978 | 41448 | 3.96% | 0.375% |
| 53 | 12.180 | 1713 | 1716 | 1718 | rBV | 29991 | 38100 | 3.64% | 0.345% |
| 54 | 12.233 | 1722 | 1725 | 1727 | rBV3 | 38342 | 37759 | 3.60% | 0.342% |
| 55 | 12.304 | 1734 | 1737 | 1739 | rBV | 78444 | 82986 | 7.92% | 0.751% |
| 56 | 12.345 | 1739 | 1744 | 1749 | rVB3 | 114859 | 171250 | 16.35% | 1.550% |
| 57 | 12.398 | 1749 | 1753 | 1755 | rBV3 | 39486 | 50565 | 4.83% | 0.458% |
| 58 | 12.469 | 1761 | 1765 | 1768 | rBV | 437142 | 429674 | 41.01% | 3.890% |
| 59 | 12.622 | 1788 | 1791 | 1793 | rBV3 | 36554 | 39910 | 3.81% | 0.361% |
| 60 | 12.692 | 1798 | 1803 | 1810 | rBV | 429414 | 532192 | 50.80% | 4.818% |
| 61 | 12.751 | 1811 | 1813 | 1817 | rVB2 | 35248 | 38181 | 3.64% | 0.346% |
| 62 | 12.833 | 1823 | 1827 | 1830 | rBV | 445188 | 413453 | 39.47% | 3.743% |
| 63 | 13.069 | 1864 | 1867 | 1869 | rBV | 81984 | 79489 | 7.59% | 0.720% |
| 64 | 13.410 | 1922 | 1925 | 1927 | rBV | 79011 | 70666 | 6.75% | 0.640% |
| 65 | 13.892 | 2003 | 2007 | 2010 | rBV2 | 981455 | 1047639 | 100.00% | 9.484% |
| 66 | 14.051 | 2032 | 2034 | 2038 | rVB4 | 113767 | 96568 | 9.22% | 0.874% |
| 67 | 14.651 | 2134 | 2136 | 2139 | rVB | 165676 | 146932 | 14.03% | 1.330% |
| 68 | 15.321 | 2247 | 2250 | 2257 | rBV2 | 675302 | 812502 | 77.56% | 7.355% |

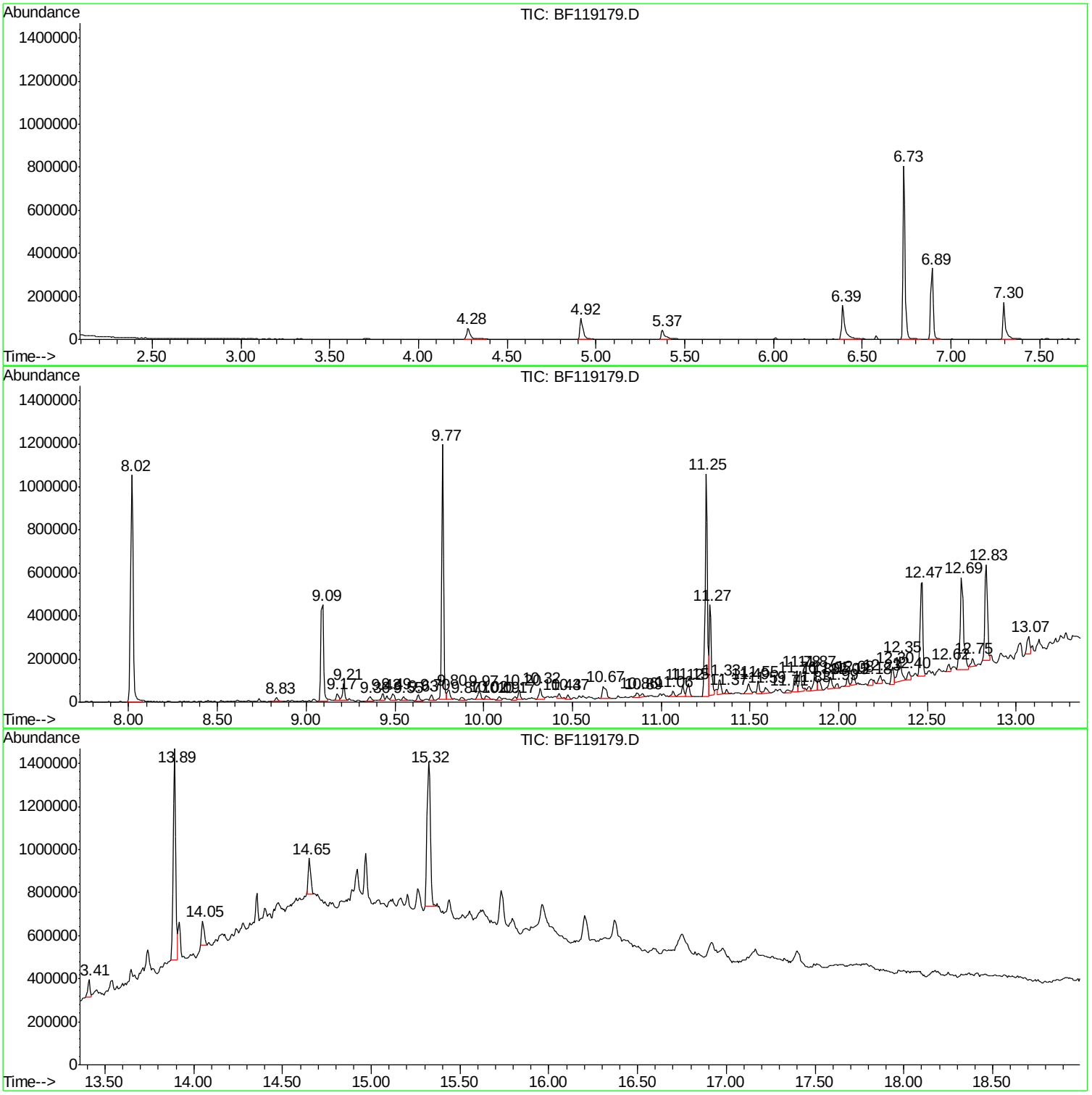
Sum of corrected areas: 11046476

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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 F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

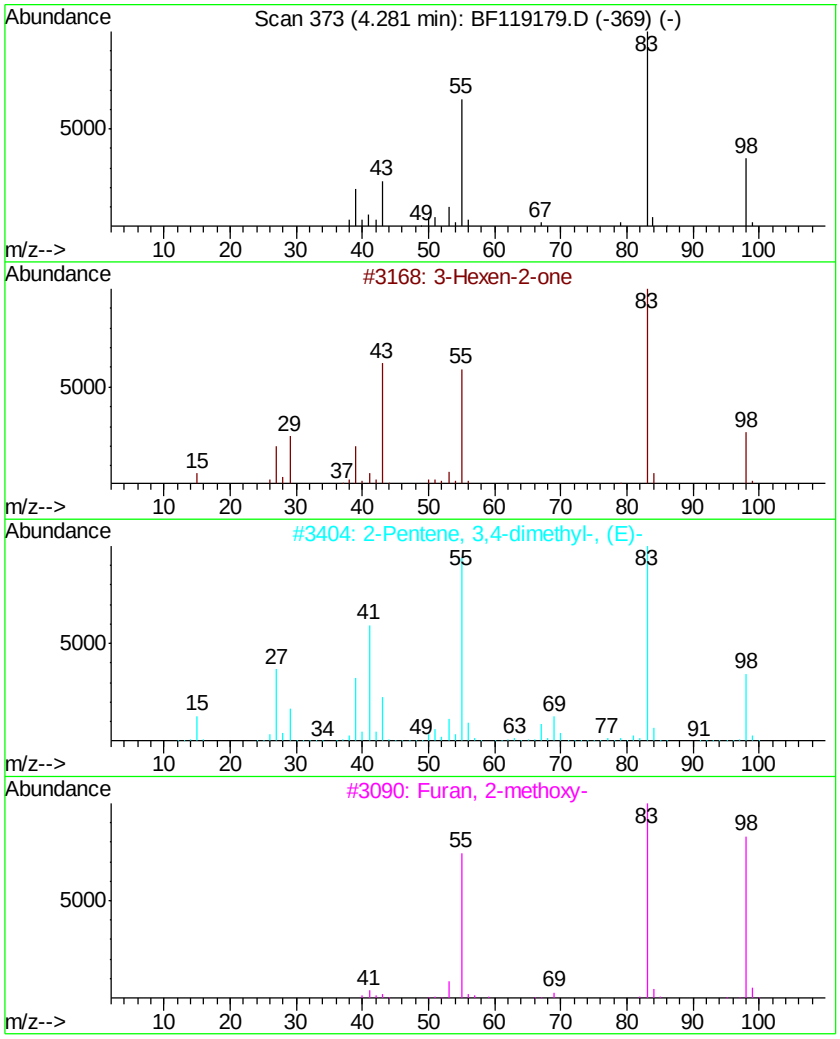
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

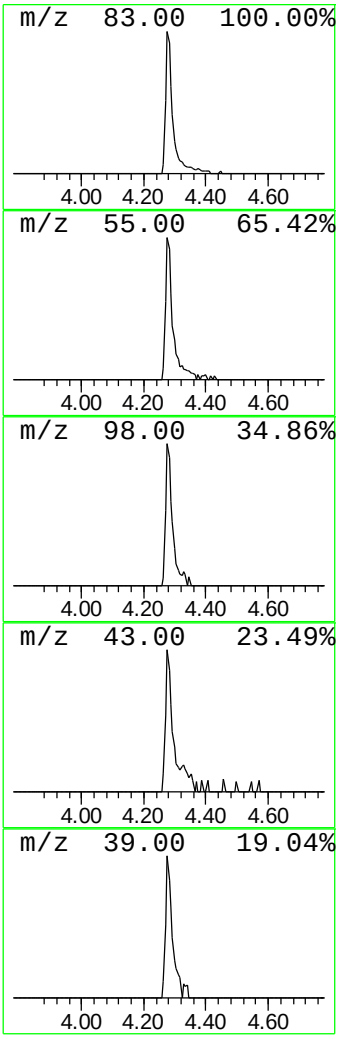
**********

Peak Number 1 3-Hexen-2-one Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.28 | 2.31 ng | 81707 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hexen-2-one | 98 | C6H10O | 000763-93-9 | 90 |
| 2 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 90 |
| 3 | Furan, 2-methoxy- | 98 | C5H6O2 | 025414-22-6 | 86 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 86 |
| 5 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

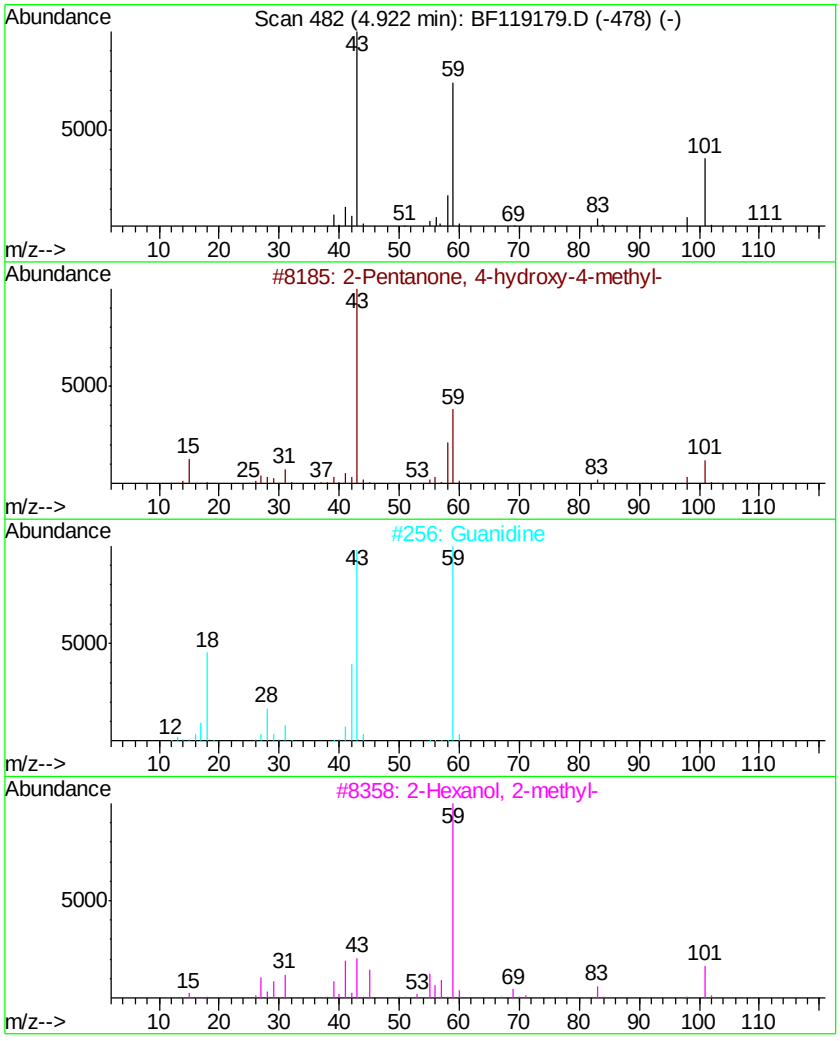
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

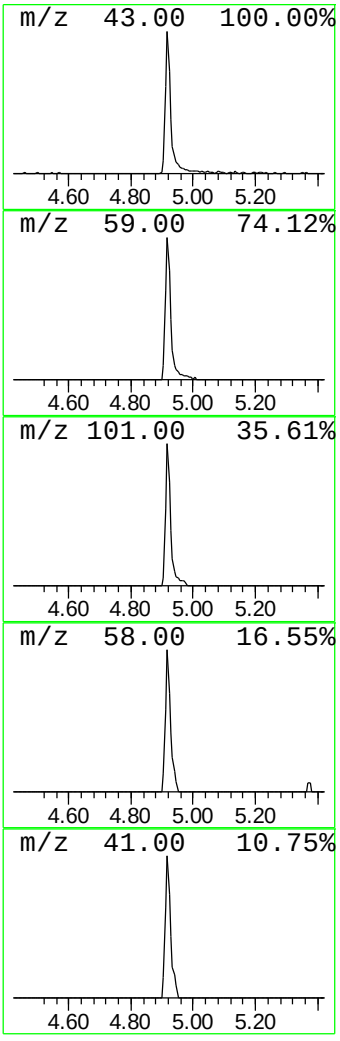
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 3.17 ng | 112090 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 40 |
| 4 | 5-Ethyl-3-methylhept-1-en-4-ol | 156 | C10H20O | 286424-80-4 | 28 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

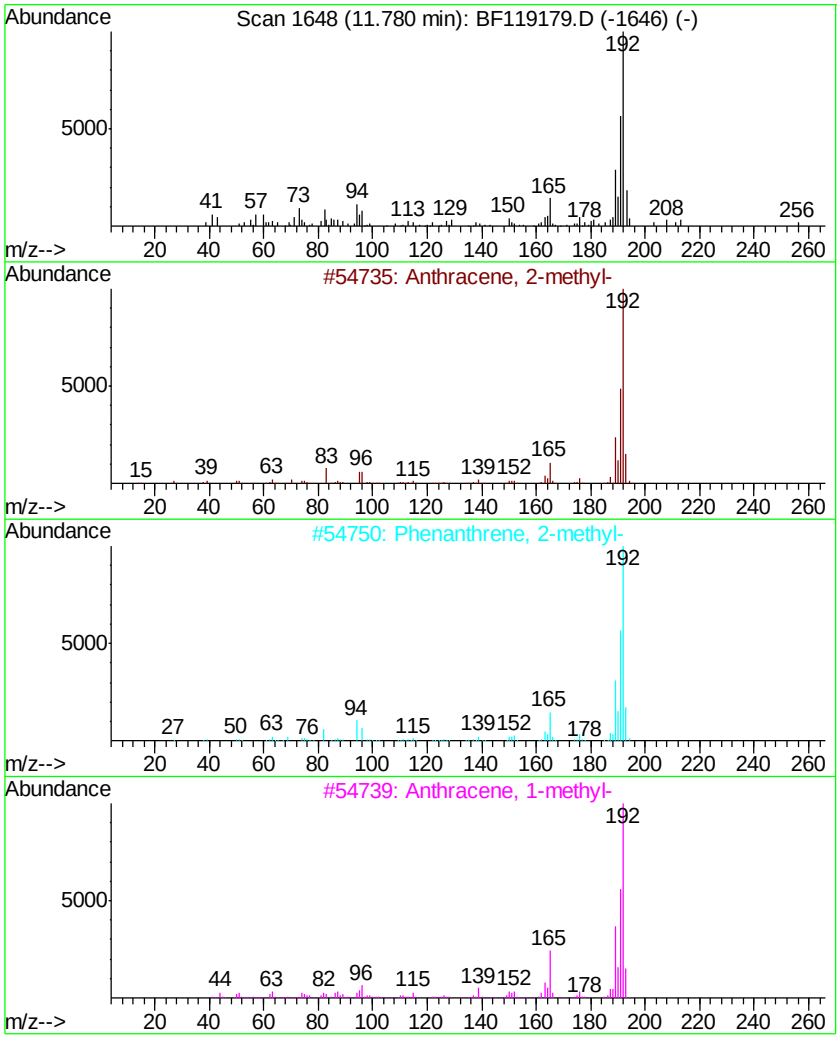
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

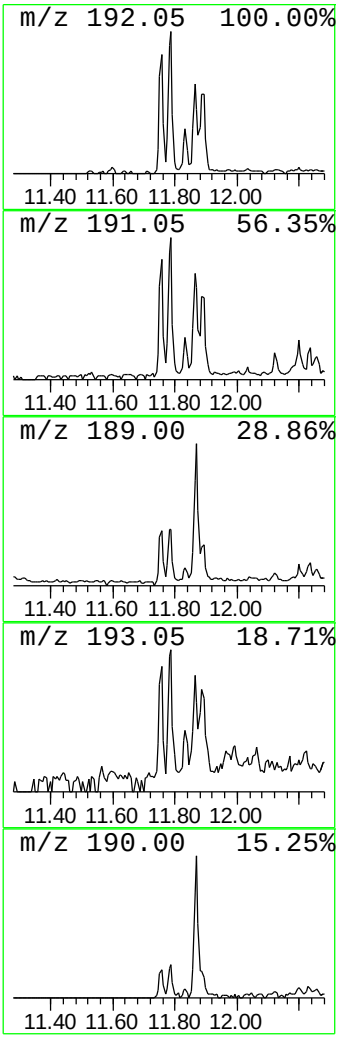
**********

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.78 | 2.15 ng | 104105 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 86 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 81 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

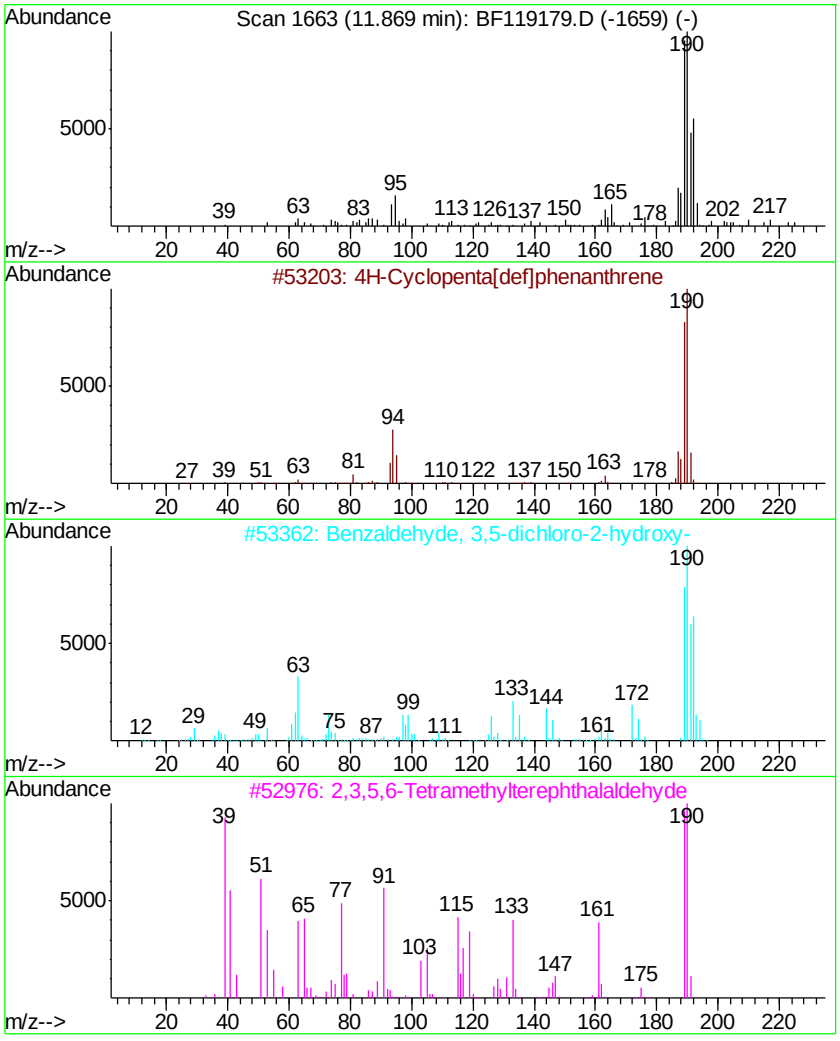
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

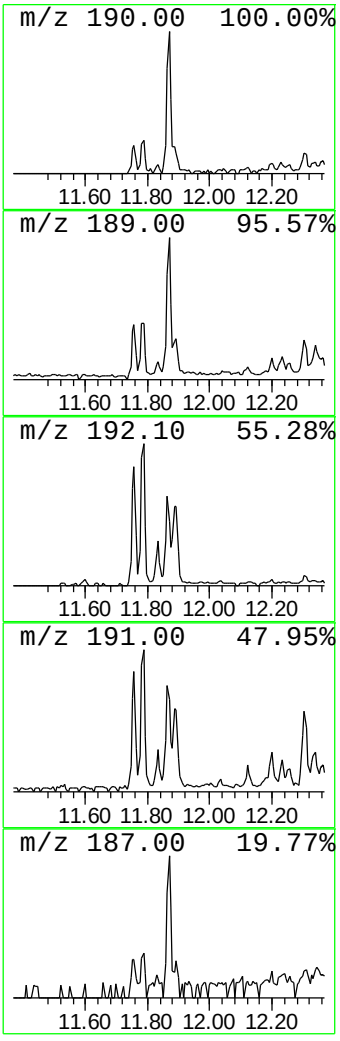
**********

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.87 | 2.20 ng | 106622 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 50 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 30 |
| 5 | Propyne, 1,3-diphenyl- | 192 | C15H12 | 004980-70-5 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

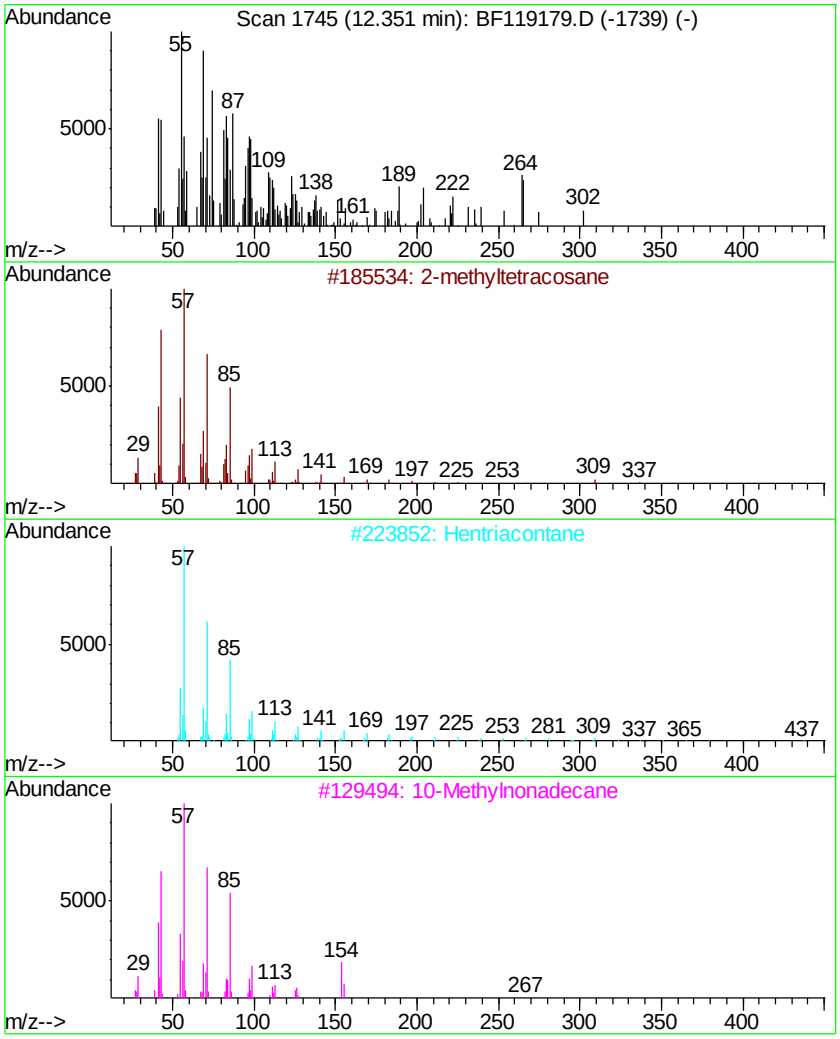
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

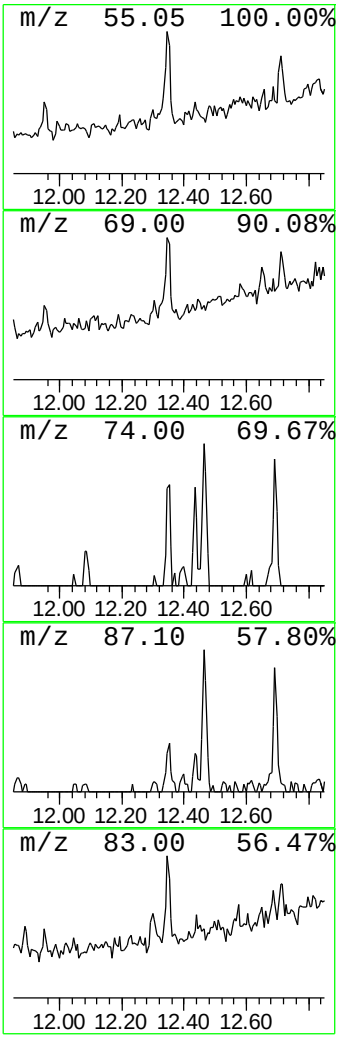
**********

Peak Number 6 unknown12.35 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 3.53 ng | 171250 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-methyltetracosane | 352 | C25H52 | 1000376-72-6 | 46 |
| 2 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 46 |
| 3 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 43 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 43 |
| 5 | 2-Bromotetradecane | 276 | C14H29Br | 074036-95-6 | 43 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

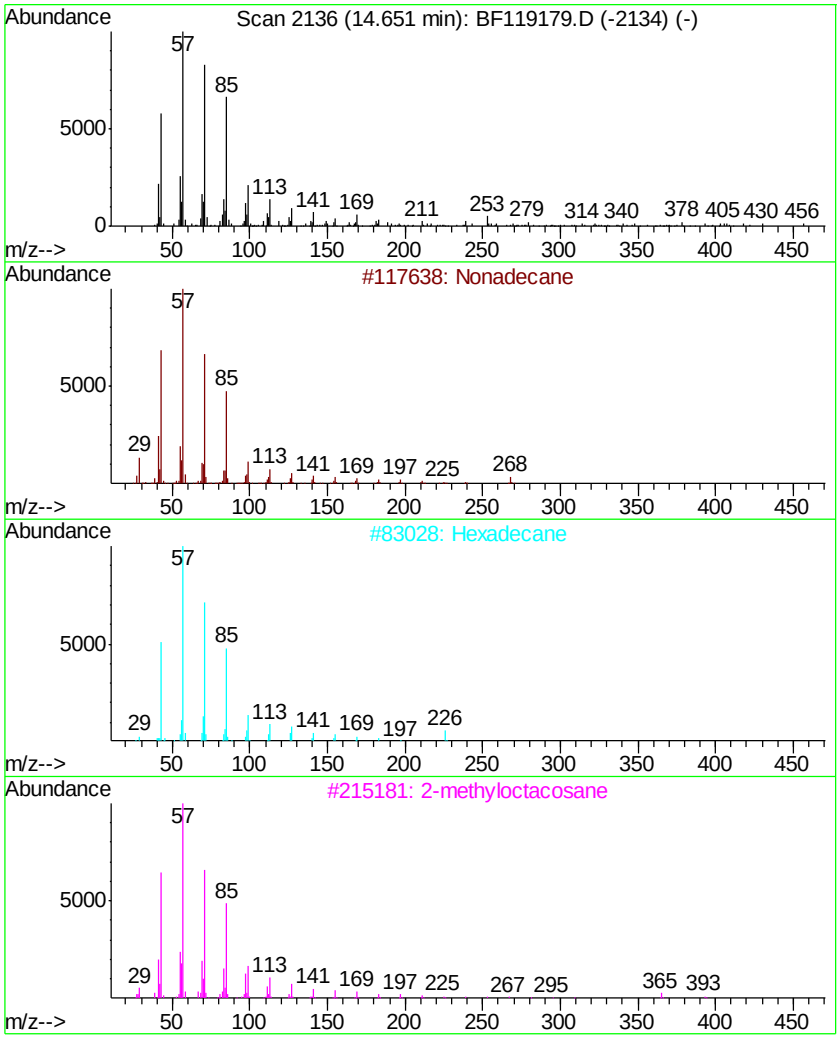
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

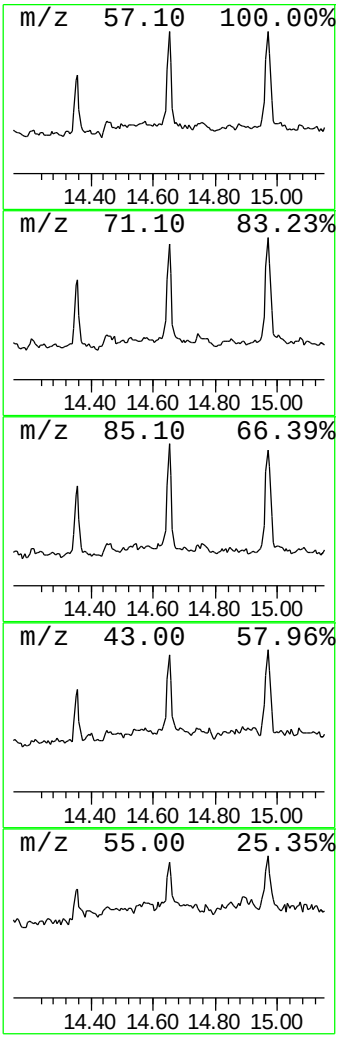
**********

Peak Number 7 Nonadecane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.65 | 3.62 ng | 146932 | Perylene-d12 | 15.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 87 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030220\
Data File : BF119179.D
Acq On : 2 Mar 2020 20:21
Operator : CG/JU
Sample : L1735-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** FK-SF-01-009-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022020.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 |
| 3-Hexen-2-one | 4.28 | 2.3 | ng | 81707 | 1 | 6.73 | 707568 | 20.0 |
| 2-Pentanone, 4-hy... | 4.92 | 3.2 | ng | 112090 | 1 | 6.73 | 707568 | 20.0 |
| Anthracene, 2-met... | 11.78 | 2.1 | ng | 104105 | 4 | 11.25 | 969408 | 20.0 |
| 4H-Cyclopenta[def... | 11.87 | 2.2 | ng | 106622 | 4 | 11.25 | 969408 | 20.0 |
| unknown12.35 | 12.35 | 3.5 | ng | 171250 | 4 | 11.25 | 969408 | 20.0 |
| Nonadecane | 14.65 | 3.6 | ng | 146932 | 6 | 15.32 | 812502 | 20.0 |