LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM121520MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.416 | 35 | 39 | 50 | rVB | 25867 | 37036 | 1.08% | 0.125% |
| 2 | 3.993 | 131 | 137 | 144 | rBV3 | 6774 | 12046 | 0.35% | 0.041% |
| 3 | 4.075 | 148 | 151 | 156 | rVV6 | 2826 | 5817 | 0.17% | 0.020% |
| 4 | 4.122 | 157 | 159 | 164 | rVB5 | 2501 | 3532 | 0.10% | 0.012% |
| 5 | 4.228 | 172 | 177 | 182 | rBV3 | 6430 | 9228 | 0.27% | 0.031% |
| 6 | 4.469 | 211 | 218 | 225 | rVB3 | 5011 | 7901 | 0.23% | 0.027% |
| 7 | 4.899 | 289 | 291 | 297 | rBV4 | 2472 | 4486 | 0.13% | 0.015% |
| 8 | 5.234 | 344 | 348 | 353 | rVB6 | 2046 | 3881 | 0.11% | 0.013% |
| 9 | 6.157 | 503 | 505 | 510 | rVB3 | 2894 | 3583 | 0.10% | 0.012% |
| 10 | 6.234 | 512 | 518 | 525 | rBV2 | 6979 | 11730 | 0.34% | 0.040% |
| 11 | 7.157 | 669 | 675 | 681 | rVB4 | 3080 | 4833 | 0.14% | 0.016% |
| 12 | 7.340 | 699 | 706 | 719 | rBV | 434696 | 770614 | 22.54% | 2.597% |
| 13 | 7.516 | 726 | 736 | 744 | rBV | 335286 | 530559 | 15.52% | 1.788% |
| 14 | 7.728 | 765 | 772 | 779 | rBV | 454446 | 723001 | 21.14% | 2.437% |
| 15 | 7.792 | 779 | 783 | 792 | rBV2 | 20108 | 38355 | 1.12% | 0.129% |
| 16 | 7.981 | 810 | 815 | 821 | rVB2 | 3478 | 6050 | 0.18% | 0.020% |
| 17 | 8.204 | 845 | 853 | 860 | rBV | 502484 | 798287 | 23.35% | 2.690% |
| 18 | 8.257 | 860 | 862 | 869 | rVB3 | 5954 | 8019 | 0.23% | 0.027% |
| 19 | 8.910 | 964 | 973 | 982 | rBV | 506013 | 807166 | 23.61% | 2.720% |
| 20 | 9.381 | 1045 | 1053 | 1061 | rBV | 392484 | 637204 | 18.63% | 2.148% |
| 21 | 9.534 | 1075 | 1079 | 1084 | rBV3 | 3098 | 4321 | 0.13% | 0.015% |
| 22 | 9.775 | 1113 | 1120 | 1124 | rVB | 12302 | 18976 | 0.55% | 0.064% |
| 23 | 10.104 | 1168 | 1176 | 1186 | rBV | 312616 | 525108 | 15.36% | 1.770% |
| 24 | 10.645 | 1261 | 1268 | 1278 | rVB | 503110 | 827309 | 24.19% | 2.788% |
| 25 | 11.033 | 1327 | 1334 | 1341 | rBV | 672147 | 1098213 | 32.12% | 3.701% |
| 26 | 11.163 | 1349 | 1356 | 1364 | rBV | 422709 | 706737 | 20.67% | 2.382% |
| 27 | 12.492 | 1578 | 1582 | 1586 | rBV3 | 2609 | 3644 | 0.11% | 0.012% |
| 28 | 12.604 | 1595 | 1601 | 1605 | rBV3 | 7270 | 11650 | 0.34% | 0.039% |
| 29 | 12.680 | 1612 | 1614 | 1620 | rVB3 | 2516 | 3877 | 0.11% | 0.013% |
| 30 | 13.198 | 1696 | 1702 | 1710 | rVB5 | 4978 | 8704 | 0.25% | 0.029% |
| 31 | 13.439 | 1739 | 1743 | 1747 | rBV2 | 7488 | 11350 | 0.33% | 0.038% |
| 32 | 13.645 | 1774 | 1778 | 1782 | rBV3 | 5170 | 7486 | 0.22% | 0.025% |
| 33 | 13.710 | 1784 | 1789 | 1794 | rVV2 | 11360 | 16405 | 0.48% | 0.055% |
| 34 | 14.074 | 1846 | 1851 | 1862 | rVB | 102480 | 148181 | 4.33% | 0.499% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
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Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM121520MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.227 | 1871 | 1877 | 1882 | rBV | 821325 | 1101557 | 32.21% | 3.713% |
| 36 | 14.274 | 1882 | 1885 | 1892 | rVB | 171311 | 217825 | 6.37% | 0.734% |
| 37 | 14.457 | 1911 | 1916 | 1918 | rBV5 | 2750 | 4340 | 0.13% | 0.015% |
| 38 | 14.527 | 1921 | 1928 | 1937 | rVV | 951638 | 1381422 | 40.40% | 4.656% |
| 39 | 14.704 | 1955 | 1958 | 1963 | rVB3 | 6737 | 7916 | 0.23% | 0.027% |
| 40 | 14.833 | 1973 | 1980 | 1987 | rBV | 931292 | 1359057 | 39.75% | 4.580% |
| 41 | 14.957 | 1996 | 2001 | 2003 | rBV | 26959 | 34297 | 1.00% | 0.116% |
| 42 | 14.998 | 2003 | 2008 | 2014 | rVV | 315031 | 453245 | 13.26% | 1.528% |
| 43 | 15.074 | 2014 | 2021 | 2040 | rVV | 2254524 | 3419400 | 100.00% | 11.524% |
| 44 | 15.204 | 2040 | 2043 | 2057 | rVB8 | 9846 | 27750 | 0.81% | 0.094% |
| 45 | 15.604 | 2106 | 2111 | 2114 | rBV2 | 3696 | 5473 | 0.16% | 0.018% |
| 46 | 15.651 | 2114 | 2119 | 2124 | rVB3 | 18215 | 28447 | 0.83% | 0.096% |
| 47 | 15.815 | 2136 | 2147 | 2153 | rBV | 1138378 | 1696127 | 49.60% | 5.716% |
| 48 | 15.921 | 2158 | 2165 | 2175 | rVB | 353490 | 498799 | 14.59% | 1.681% |
| 49 | 16.051 | 2181 | 2187 | 2191 | rVB2 | 14872 | 19286 | 0.56% | 0.065% |
| 50 | 16.157 | 2200 | 2205 | 2209 | rVB6 | 2468 | 3884 | 0.11% | 0.013% |
| 51 | 16.439 | 2249 | 2253 | 2257 | rBV2 | 24740 | 37510 | 1.10% | 0.126% |
| 52 | 16.586 | 2274 | 2278 | 2284 | rVB3 | 4781 | 7468 | 0.22% | 0.025% |
| 53 | 16.780 | 2306 | 2311 | 2316 | rVB | 7984 | 11846 | 0.35% | 0.040% |
| 54 | 16.927 | 2334 | 2336 | 2340 | rVB5 | 3656 | 4095 | 0.12% | 0.014% |
| 55 | 16.998 | 2344 | 2348 | 2354 | rVV5 | 7839 | 10819 | 0.32% | 0.036% |
| 56 | 17.145 | 2370 | 2373 | 2380 | rVV5 | 7094 | 9171 | 0.27% | 0.031% |
| 57 | 17.280 | 2393 | 2396 | 2400 | rVB4 | 6159 | 8457 | 0.25% | 0.029% |
| 58 | 17.339 | 2401 | 2406 | 2409 | rBV3 | 3687 | 5404 | 0.16% | 0.018% |
| 59 | 17.415 | 2415 | 2419 | 2422 | rBV4 | 3366 | 3978 | 0.12% | 0.013% |
| 60 | 17.551 | 2435 | 2442 | 2447 | rBV | 1068726 | 1479090 | 43.26% | 4.985% |
| 61 | 17.592 | 2447 | 2449 | 2453 | rVV | 20920 | 28288 | 0.83% | 0.095% |
| 62 | 17.651 | 2453 | 2459 | 2473 | rVB | 1156206 | 1662846 | 48.63% | 5.604% |
| 63 | 17.904 | 2499 | 2502 | 2507 | rBV7 | 3679 | 6604 | 0.19% | 0.022% |
| 64 | 18.015 | 2516 | 2521 | 2524 | rBV5 | 3544 | 5273 | 0.15% | 0.018% |
| 65 | 18.180 | 2546 | 2549 | 2553 | rBV5 | 3605 | 4065 | 0.12% | 0.014% |
| 66 | 18.280 | 2562 | 2566 | 2569 | rBV5 | 4212 | 6650 | 0.19% | 0.022% |
| 67 | 18.404 | 2582 | 2587 | 2595 | rBV | 105992 | 142355 | 4.16% | 0.480% |
| 68 | 18.604 | 2619 | 2621 | 2625 | rVB5 | 3423 | 3440 | 0.10% | 0.012% |
| 69 | 18.698 | 2634 | 2637 | 2640 | rVB4 | 5447 | 6162 | 0.18% | 0.021% |
| 70 | 19.315 | 2738 | 2742 | 2746 | rBV6 | 10501 | 14176 | 0.41% | 0.048% |
| 71 | 19.545 | 2774 | 2781 | 2782 | rBV4 | 21310 | 32510 | 0.95% | 0.110% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM121520MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 19.574 | 2783 | 2786 | 2791 | rVB | 48110 | 60700 | 1.78% | 0.205% |
| 73 | 19.656 | 2797 | 2800 | 2805 | rBV2 | 37127 | 51763 | 1.51% | 0.174% |
| 74 | 19.798 | 2821 | 2824 | 2832 | rBV3 | 13472 | 29333 | 0.86% | 0.099% |
| 75 | 19.903 | 2836 | 2842 | 2854 | rVV | 1440870 | 2015787 | 58.95% | 6.794% |
| 76 | 20.380 | 2920 | 2923 | 2926 | rBV5 | 18189 | 28785 | 0.84% | 0.097% |
| 77 | 21.350 | 3083 | 3088 | 3096 | rBV | 323755 | 498672 | 14.58% | 1.681% |
| 78 | 21.662 | 3135 | 3141 | 3145 | rBV | 1178601 | 1603495 | 46.89% | 5.404% |
| 79 | 23.315 | 3418 | 3422 | 3433 | rVB2 | 164273 | 345404 | 10.10% | 1.164% |
| 80 | 23.874 | 3511 | 3517 | 3534 | rVB | 983966 | 1940516 | 56.75% | 6.540% |
| 81 | 24.027 | 3536 | 3543 | 3555 | rVB | 786290 | 1532465 | 44.82% | 5.165% |

Sum of corrected areas: 29671241

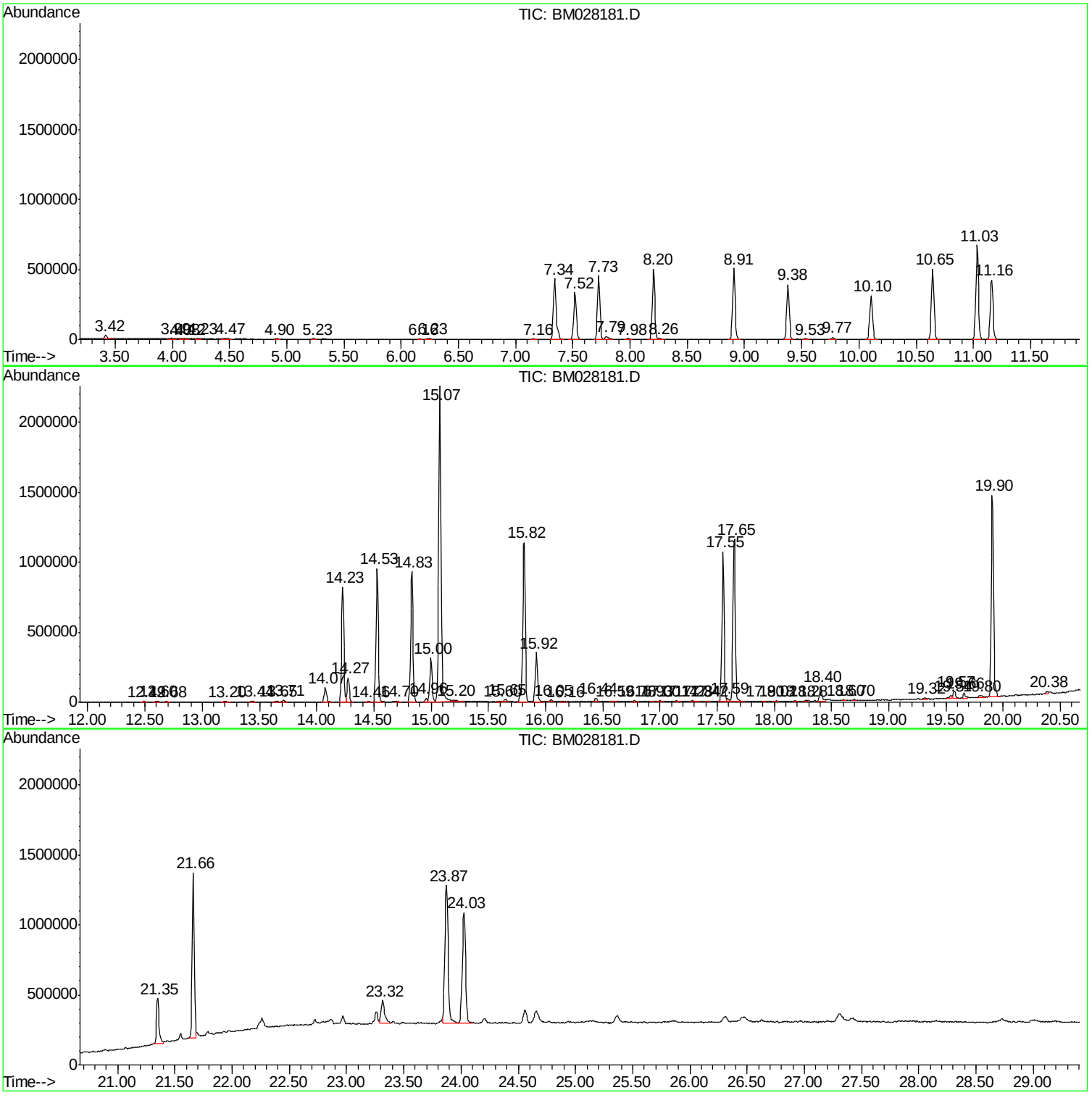
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA CALIBRATION

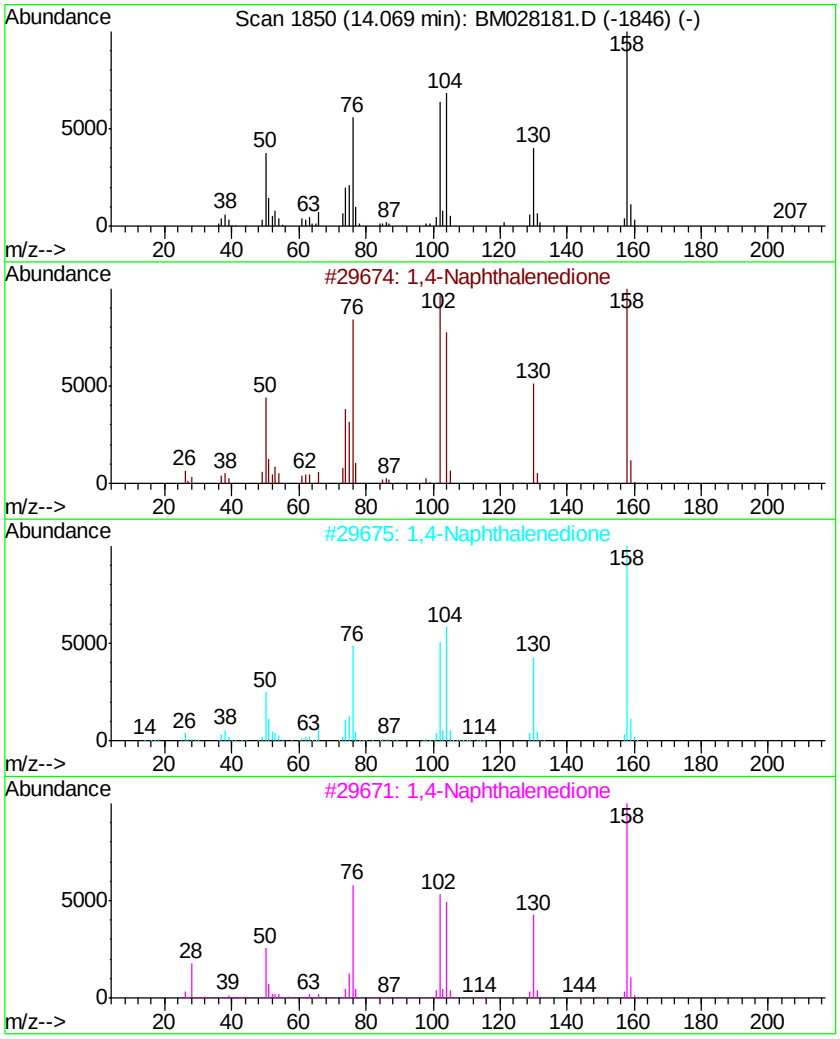
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

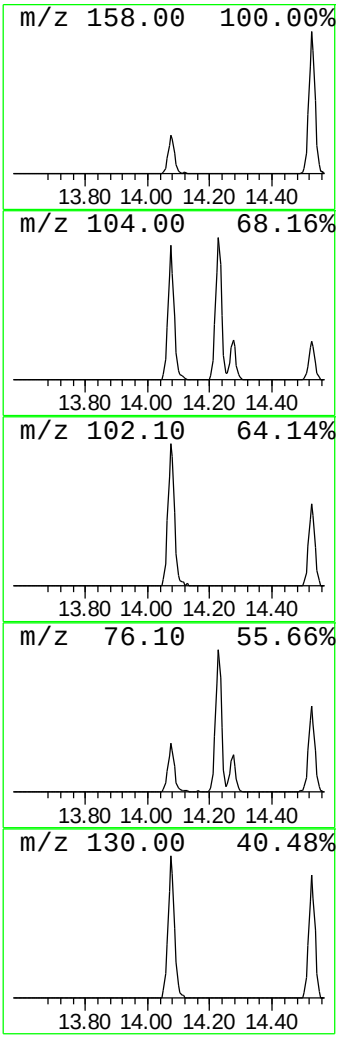
**********

Peak Number 1 1,4-Naphthalenedione Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.07 | 2.18 ng/ul | 148181 | Acenaphthene-d10 | 14.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Naphthalenedione | 158 | C10H6O2 | 000130-15-4 | 97 |
| 2 | 1,4-Naphthalenedione | 158 | C10H6O2 | 000130-15-4 | 96 |
| 3 | 1,4-Naphthalenedione | 158 | C10H6O2 | 000130-15-4 | 96 |
| 4 | Quinoxaline-2-carboxaldehyde | 158 | C9H6N2O | 001593-08-4 | 47 |
| 5 | 3-Cyclobutene-1,2-dione, 3-phenyl- | 158 | C10H6O2 | 003947-97-5 | 46 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA CALIBRATION

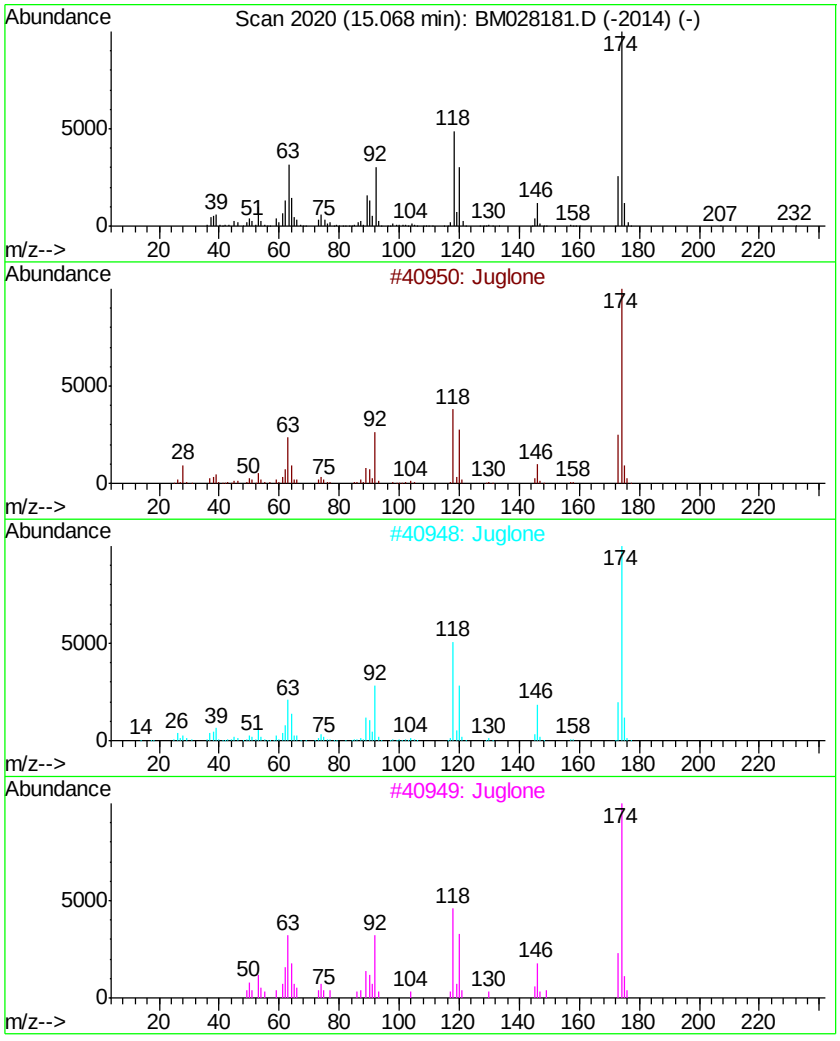
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

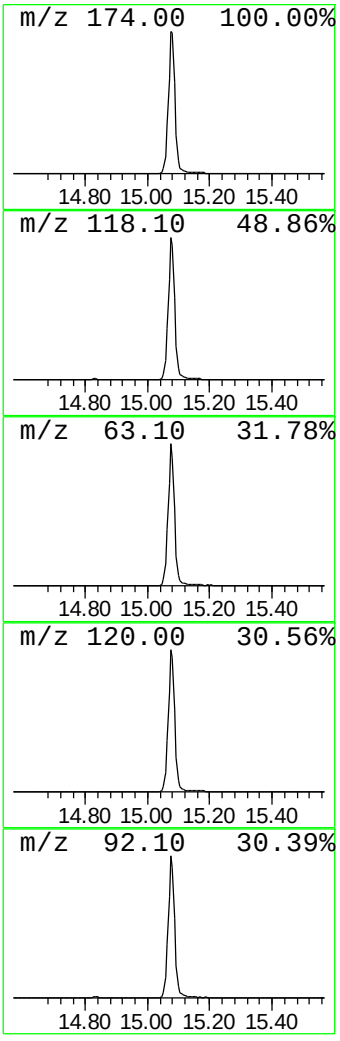
**********

Peak Number 2 Juglone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.07 | 50.32 ng/ul | 3419400 | Acenaphthene-d10 | 14.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Juglone | 174 | C10H6O3 | 000481-39-0 | 98 |
| 2 | Juglone | 174 | C10H6O3 | 000481-39-0 | 95 |
| 3 | Juglone | 174 | C10H6O3 | 000481-39-0 | 91 |
| 4 | 1-Methyl-5-(4-methylphenyl)tetra... | 174 | C9H10N4 | 068826-33-5 | 47 |
| 5 | 8-Quinolinol, 5-nitroso- | 174 | C9H6N2O2 | 003565-26-2 | 43 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

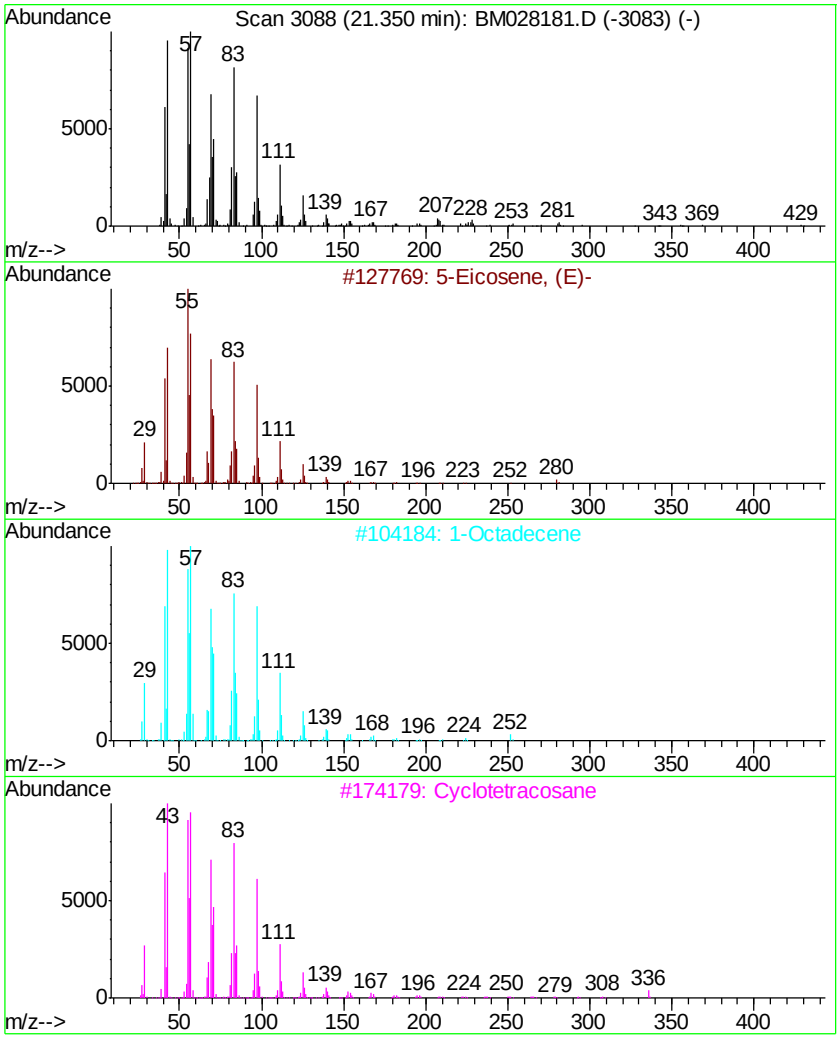
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA CALIBRATION

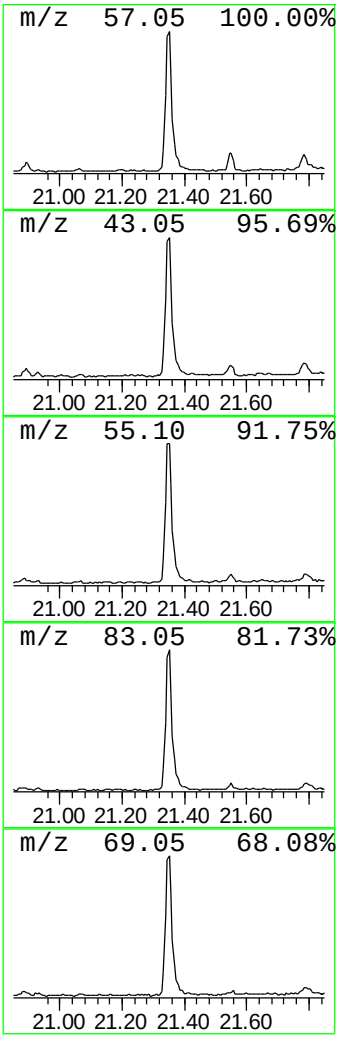
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.35 | 6.22 ng/ul | 498672 | Chrysene-d12 | 21.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 98 |
| 2 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 96 |
| 3 | Cyclotetracosane | 336 | C24H48 | 000297-03-0 | 95 |
| 4 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 94 |
| 5 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 94 |



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Data File : BM028181.D
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Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA CALIBRATION

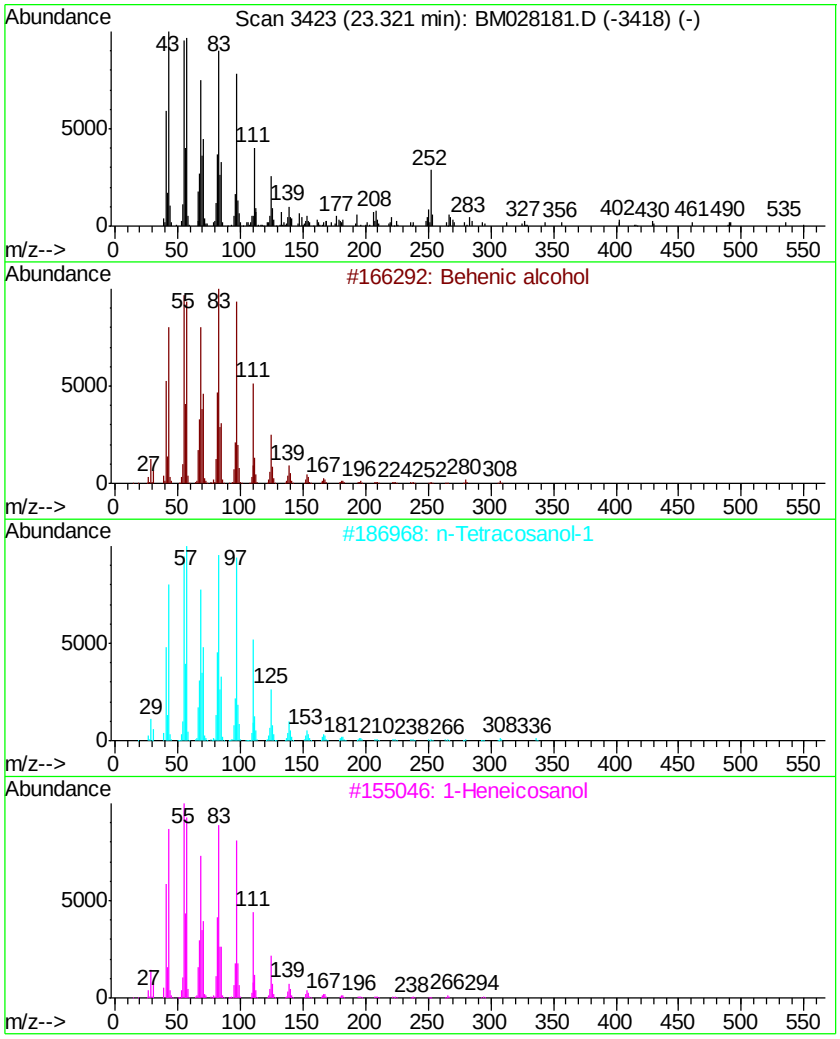
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

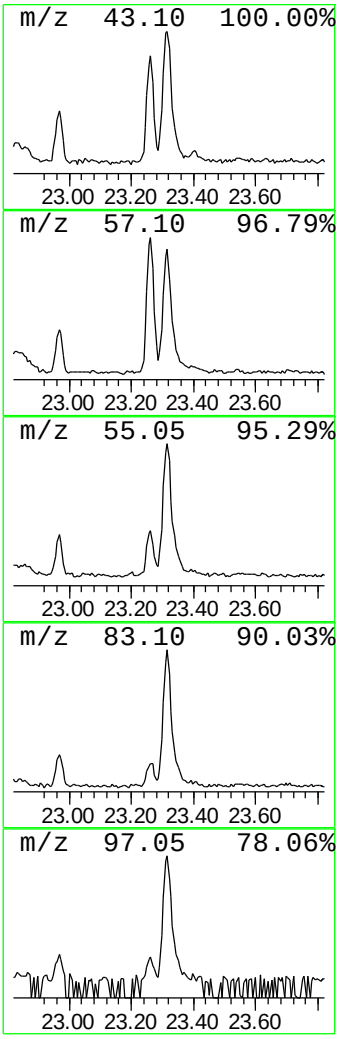
**********

Peak Number 4 Behenic alcohol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.32 | 4.51 ng/ul | 345404 | Perylene-d12 | 24.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 2 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 93 |
| 3 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 90 |
| 5 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM121820\
Data File : BM028181.D
Acq On : 19 Dec 2020 05:29
Operator : JU/CG
Sample : L5068-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A54H5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM121520MA.M
Quant Title : SVOA 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 |
| 1,4-Naphthalenedione | 14.07 | 2.2 | ng/ul | 148181 | 3 | 14.83 | 1359060 | 20.0 |
| Juglone | 15.07 | 50.3 | ng/ul | 3419400 | 3 | 14.83 | 1359060 | 20.0 |
| (DEL) Alkane: Str... | 21.35 | 6.2 | ng/ul | 498672 | 5 | 21.66 | 1603500 | 20.0 |
| Behenic alcohol | 23.32 | 4.5 | ng/ul | 345404 | 6 | 24.03 | 1532470 | 20.0 |