LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-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_G\METHODS\8270-BG030419.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 | 3.198 | 12 | 19 | 27 | rBV2 | 181566 | 416886 | 18.36% | 2.023% |
| 2 | 3.275 | 27 | 32 | 42 | rVB | 406509 | 661640 | 29.14% | 3.211% |
| 3 | 5.225 | 358 | 364 | 371 | rVB | 23535 | 36760 | 1.62% | 0.178% |
| 4 | 5.689 | 435 | 443 | 451 | rBV | 223675 | 368789 | 16.24% | 1.790% |
| 5 | 5.760 | 451 | 455 | 464 | rVB5 | 11599 | 23975 | 1.06% | 0.116% |
| 6 | 6.177 | 521 | 526 | 537 | rVB | 40040 | 69273 | 3.05% | 0.336% |
| 7 | 6.794 | 624 | 631 | 637 | rVB3 | 20419 | 32162 | 1.42% | 0.156% |
| 8 | 7.287 | 708 | 715 | 726 | rBV | 148884 | 281335 | 12.39% | 1.365% |
| 9 | 7.663 | 771 | 779 | 786 | rBV | 395630 | 708516 | 31.21% | 3.438% |
| 10 | 7.710 | 786 | 787 | 796 | rVB3 | 19079 | 27359 | 1.21% | 0.133% |
| 11 | 8.139 | 854 | 860 | 864 | rBV | 176324 | 306754 | 13.51% | 1.489% |
| 12 | 8.462 | 907 | 915 | 923 | rVB | 513977 | 889243 | 39.17% | 4.315% |
| 13 | 8.808 | 967 | 974 | 986 | rVB2 | 69717 | 134188 | 5.91% | 0.651% |
| 14 | 9.314 | 1053 | 1060 | 1067 | rBV | 438099 | 807418 | 35.56% | 3.918% |
| 15 | 9.378 | 1067 | 1071 | 1074 | rVV2 | 18809 | 30633 | 1.35% | 0.149% |
| 16 | 9.419 | 1074 | 1078 | 1089 | rVB2 | 27674 | 62157 | 2.74% | 0.302% |
| 17 | 9.854 | 1145 | 1152 | 1166 | rVB3 | 60305 | 134195 | 5.91% | 0.651% |
| 18 | 10.242 | 1207 | 1218 | 1226 | rBV6 | 18768 | 41904 | 1.85% | 0.203% |
| 19 | 10.359 | 1232 | 1238 | 1246 | rVB2 | 27489 | 48874 | 2.15% | 0.237% |
| 20 | 10.718 | 1291 | 1299 | 1307 | rBV3 | 53050 | 108345 | 4.77% | 0.526% |
| 21 | 10.800 | 1307 | 1313 | 1317 | rBV3 | 40162 | 72385 | 3.19% | 0.351% |
| 22 | 10.958 | 1331 | 1340 | 1343 | rBV | 231806 | 436377 | 19.22% | 2.118% |
| 23 | 10.994 | 1343 | 1346 | 1369 | rVB | 360790 | 599556 | 26.41% | 2.909% |
| 24 | 11.252 | 1382 | 1390 | 1395 | rBV3 | 24397 | 44121 | 1.94% | 0.214% |
| 25 | 11.311 | 1395 | 1400 | 1410 | rVB8 | 15442 | 35105 | 1.55% | 0.170% |
| 26 | 11.493 | 1424 | 1431 | 1442 | rBV | 18947 | 48180 | 2.12% | 0.234% |
| 27 | 11.622 | 1446 | 1453 | 1457 | rVV2 | 27283 | 54073 | 2.38% | 0.262% |
| 28 | 11.675 | 1457 | 1462 | 1469 | rVB2 | 21199 | 41373 | 1.82% | 0.201% |
| 29 | 11.922 | 1497 | 1504 | 1518 | rVB2 | 48780 | 99444 | 4.38% | 0.483% |
| 30 | 12.310 | 1562 | 1570 | 1574 | rBV6 | 13077 | 26341 | 1.16% | 0.128% |
| 31 | 12.468 | 1591 | 1597 | 1603 | rBV | 26039 | 39848 | 1.76% | 0.193% |
| 32 | 12.597 | 1611 | 1619 | 1624 | rBV7 | 14597 | 41439 | 1.83% | 0.201% |
| 33 | 12.668 | 1624 | 1631 | 1637 | rVV4 | 31815 | 64343 | 2.83% | 0.312% |
| 34 | 12.738 | 1637 | 1643 | 1650 | rBV | 69571 | 135370 | 5.96% | 0.657% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-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_G\METHODS\8270-BG030419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.926 | 1671 | 1675 | 1688 | rBV2 | 18919 | 41502 | 1.83% | 0.201% |
| 36 | 13.385 | 1746 | 1753 | 1760 | rBV | 1155230 | 1839914 | 81.04% | 8.929% |
| 37 | 13.737 | 1807 | 1813 | 1818 | rBV7 | 12487 | 28288 | 1.25% | 0.137% |
| 38 | 14.219 | 1888 | 1895 | 1901 | rBV2 | 21937 | 55576 | 2.45% | 0.270% |
| 39 | 14.283 | 1903 | 1906 | 1912 | rVB2 | 19167 | 26620 | 1.17% | 0.129% |
| 40 | 14.419 | 1924 | 1929 | 1934 | rVB2 | 38832 | 55300 | 2.44% | 0.268% |
| 41 | 14.665 | 1967 | 1971 | 1978 | rVB | 17643 | 27824 | 1.23% | 0.135% |
| 42 | 14.765 | 1978 | 1988 | 1996 | rBV2 | 354807 | 586692 | 25.84% | 2.847% |
| 43 | 14.953 | 2014 | 2020 | 2028 | rVB | 96377 | 147870 | 6.51% | 0.718% |
| 44 | 15.264 | 2065 | 2073 | 2085 | rBV | 254850 | 467527 | 20.59% | 2.269% |
| 45 | 15.552 | 2118 | 2122 | 2129 | rVB2 | 32023 | 55685 | 2.45% | 0.270% |
| 46 | 15.729 | 2148 | 2152 | 2161 | rVB7 | 17961 | 36019 | 1.59% | 0.175% |
| 47 | 15.969 | 2187 | 2193 | 2197 | rBV5 | 24015 | 36408 | 1.60% | 0.177% |
| 48 | 16.251 | 2234 | 2241 | 2248 | rBV | 619867 | 966543 | 42.57% | 4.690% |
| 49 | 16.316 | 2248 | 2252 | 2264 | rVB5 | 27438 | 55104 | 2.43% | 0.267% |
| 50 | 16.445 | 2266 | 2274 | 2278 | rBV4 | 20462 | 44370 | 1.95% | 0.215% |
| 51 | 16.527 | 2285 | 2288 | 2294 | rVB7 | 16267 | 25934 | 1.14% | 0.126% |
| 52 | 16.798 | 2326 | 2334 | 2340 | rBV | 135066 | 218453 | 9.62% | 1.060% |
| 53 | 16.986 | 2361 | 2366 | 2370 | rBV3 | 18815 | 44356 | 1.95% | 0.215% |
| 54 | 17.038 | 2371 | 2375 | 2382 | rVB2 | 52074 | 81910 | 3.61% | 0.397% |
| 55 | 17.367 | 2425 | 2431 | 2436 | rVB7 | 30477 | 50522 | 2.23% | 0.245% |
| 56 | 17.450 | 2441 | 2445 | 2450 | rBV3 | 47406 | 84193 | 3.71% | 0.409% |
| 57 | 17.508 | 2450 | 2455 | 2462 | rVB2 | 463026 | 704639 | 31.04% | 3.419% |
| 58 | 18.078 | 2547 | 2552 | 2554 | rBV2 | 119453 | 190416 | 8.39% | 0.924% |
| 59 | 18.113 | 2555 | 2558 | 2572 | rVB | 178040 | 316434 | 13.94% | 1.536% |
| 60 | 18.278 | 2582 | 2586 | 2594 | rVB2 | 19555 | 36431 | 1.60% | 0.177% |
| 61 | 18.360 | 2596 | 2600 | 2607 | rVV3 | 51325 | 77743 | 3.42% | 0.377% |
| 62 | 18.501 | 2619 | 2624 | 2631 | rBV5 | 49743 | 93029 | 4.10% | 0.451% |
| 63 | 18.648 | 2644 | 2649 | 2655 | rBV2 | 123059 | 205216 | 9.04% | 0.996% |
| 64 | 18.742 | 2660 | 2665 | 2675 | rVB | 99975 | 204448 | 9.00% | 0.992% |
| 65 | 18.889 | 2687 | 2690 | 2701 | rVB | 18600 | 38778 | 1.71% | 0.188% |
| 66 | 19.095 | 2721 | 2725 | 2733 | rVB4 | 21691 | 35625 | 1.57% | 0.173% |
| 67 | 19.271 | 2751 | 2755 | 2771 | rVB | 149508 | 228248 | 10.05% | 1.108% |
| 68 | 19.747 | 2832 | 2836 | 2841 | rBV5 | 13949 | 23744 | 1.05% | 0.115% |
| 69 | 19.958 | 2862 | 2872 | 2879 | rBV | 630301 | 815460 | 35.92% | 3.957% |
| 70 | 20.099 | 2890 | 2896 | 2903 | rBV | 1707931 | 2270440 | 100.00% | 11.018% |
| 71 | 20.381 | 2938 | 2944 | 2948 | rBV4 | 24304 | 51386 | 2.26% | 0.249% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-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_G\METHODS\8270-BG030419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.698 | 2995 | 2998 | 3002 | rBV3 | 36792 | 43782 | 1.93% | 0.212% |
| 73 | 21.186 | 3076 | 3081 | 3087 | rBV | 948537 | 1143412 | 50.36% | 5.549% |
| 74 | 21.397 | 3111 | 3117 | 3127 | rBV5 | 91060 | 229873 | 10.12% | 1.116% |
| 75 | 21.791 | 3178 | 3184 | 3192 | rVB | 450110 | 777884 | 34.26% | 3.775% |
| 76 | 21.879 | 3194 | 3199 | 3205 | rVB | 55765 | 81495 | 3.59% | 0.395% |
| 77 | 22.649 | 3326 | 3330 | 3335 | rVB4 | 20820 | 34212 | 1.51% | 0.166% |
| 78 | 23.265 | 3430 | 3435 | 3440 | rBV6 | 18094 | 36583 | 1.61% | 0.178% |
| 79 | 23.465 | 3463 | 3469 | 3479 | rBV | 101881 | 192303 | 8.47% | 0.933% |
| 80 | 24.094 | 3571 | 3576 | 3587 | rVB6 | 25160 | 57495 | 2.53% | 0.279% |
| 81 | 25.069 | 3737 | 3742 | 3746 | rBV5 | 17350 | 37005 | 1.63% | 0.180% |
| 82 | 25.151 | 3746 | 3756 | 3766 | rVB2 | 250131 | 750436 | 33.05% | 3.642% |
| 83 | 26.238 | 3935 | 3941 | 3943 | rBV6 | 13540 | 25536 | 1.12% | 0.124% |

Sum of corrected areas: 20607024

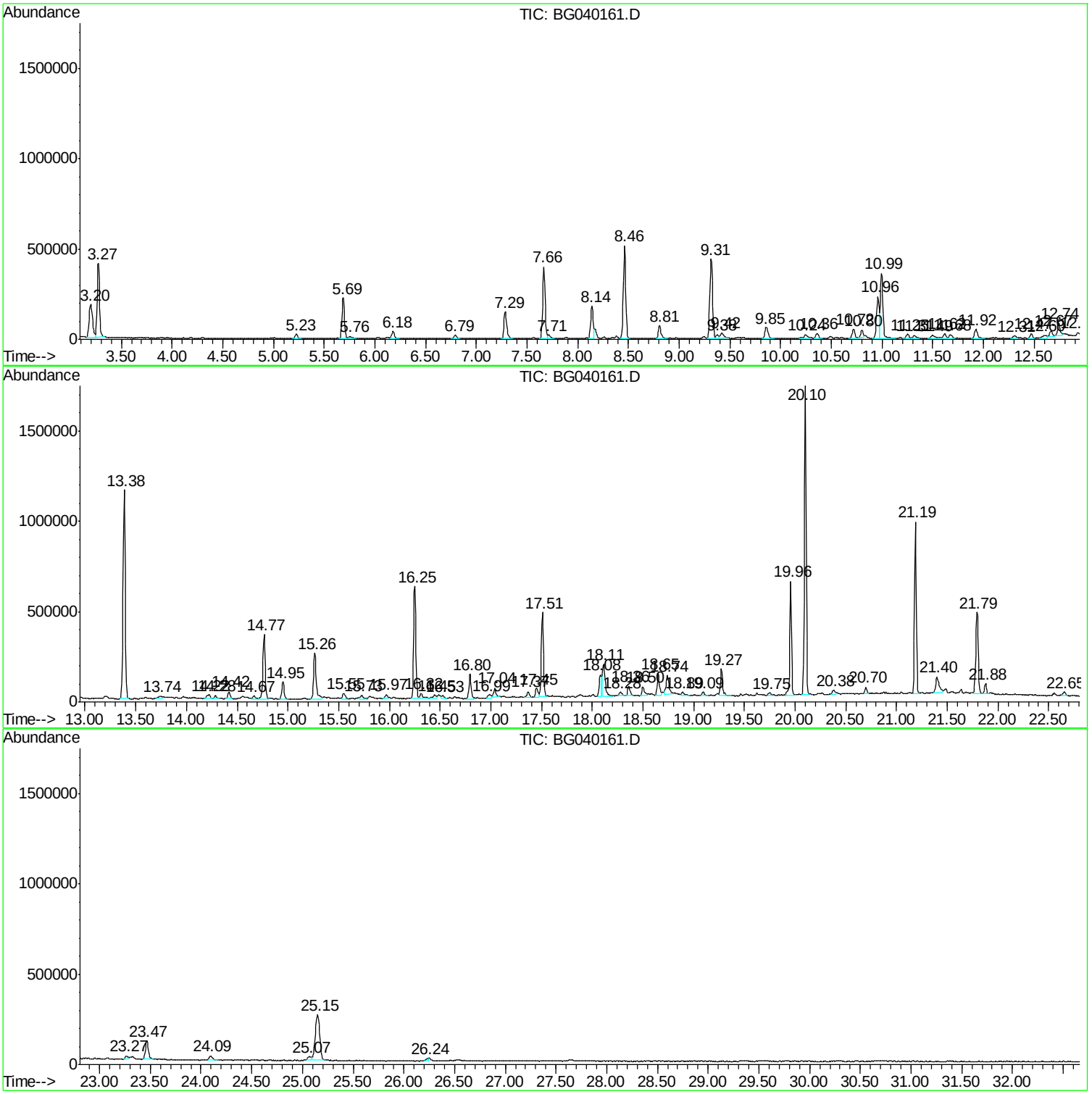
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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 G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

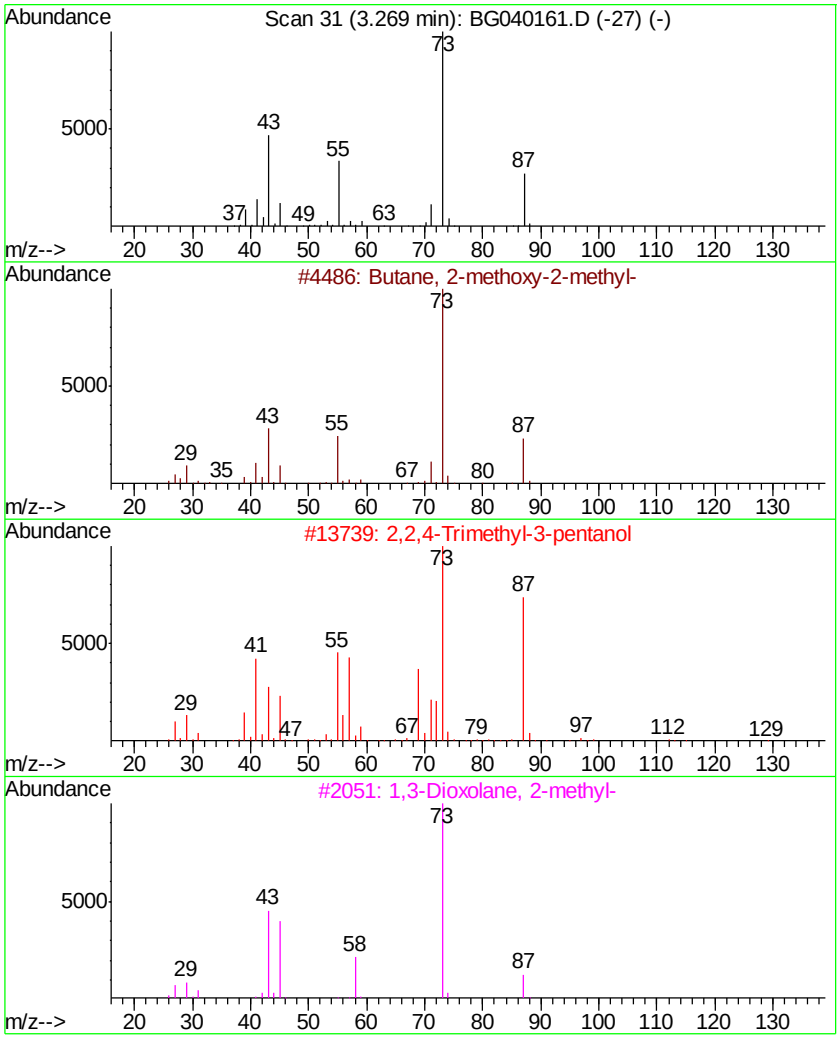
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

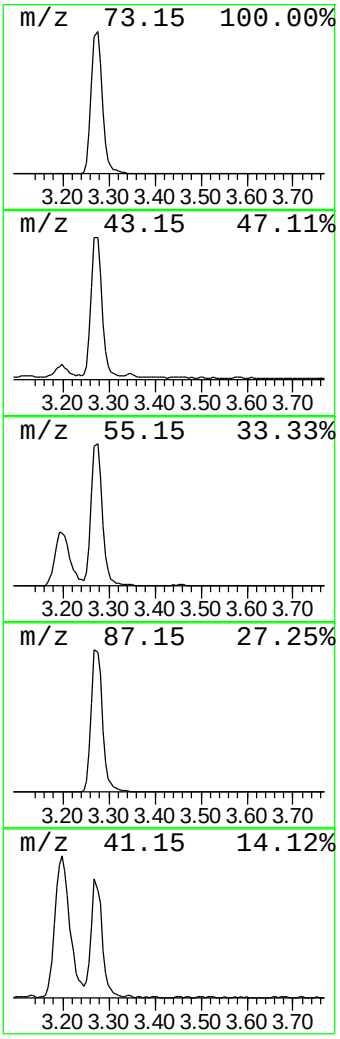
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.27 | 43.14 ng | 661640 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 72 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 38 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 38 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 5 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

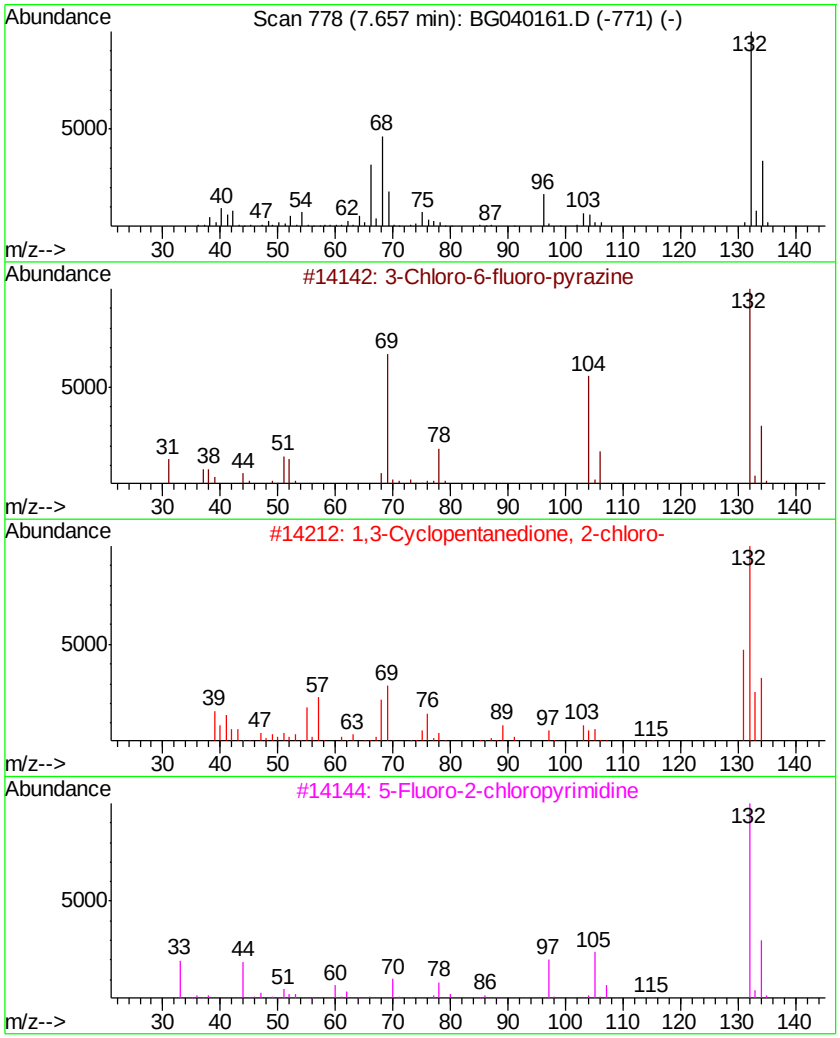
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

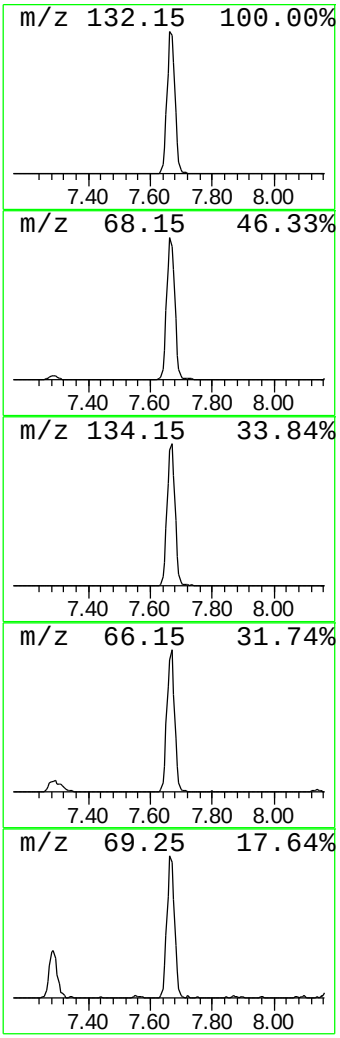
**********

Peak Number 3 unknown7.66 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.66 | 46.19 ng | 708516 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 23 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

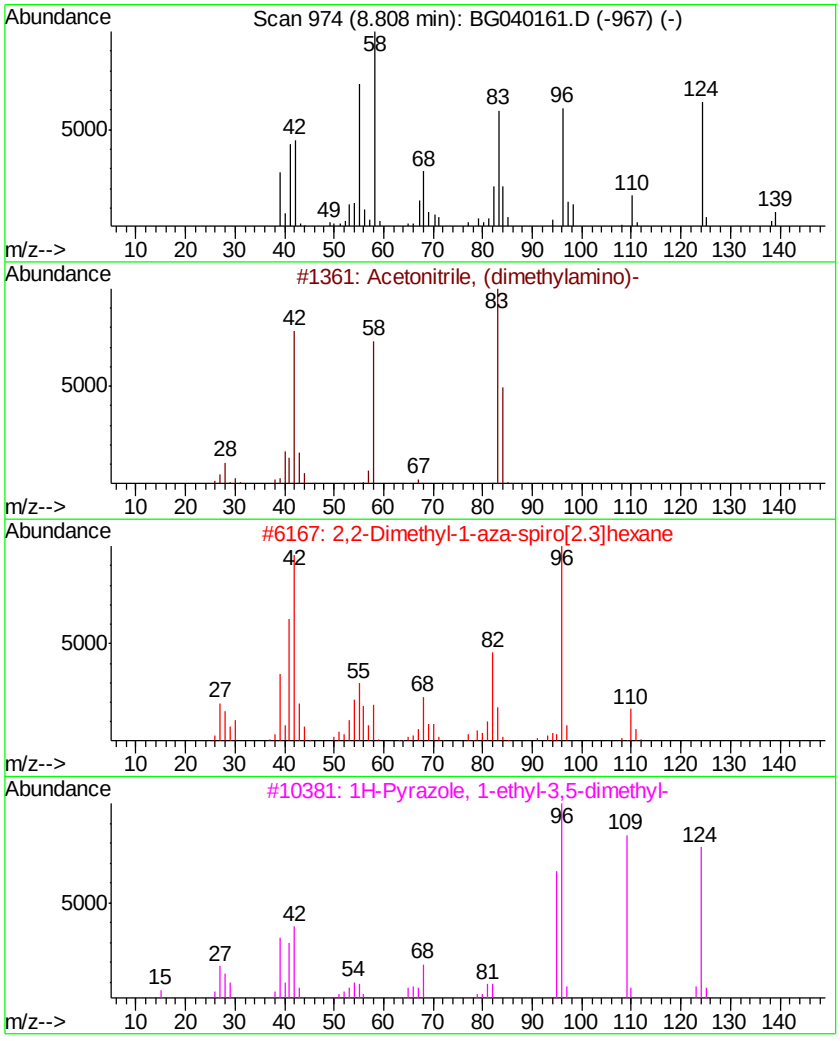
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

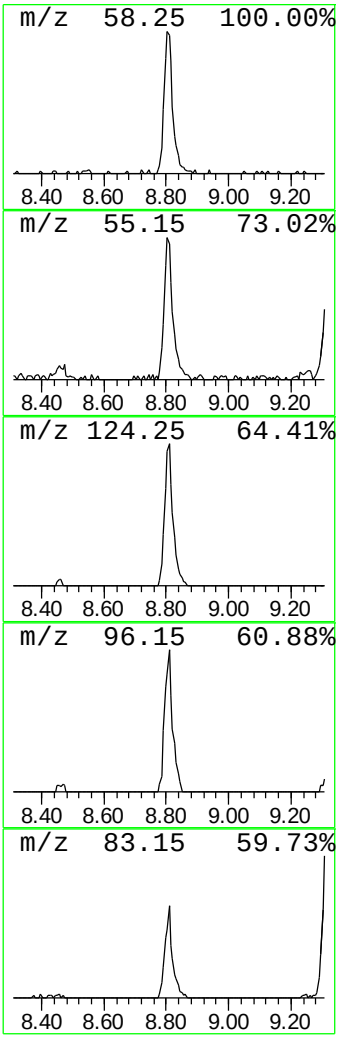
**********

Peak Number 5 unknown8.81 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.81 | 8.75 ng | 134188 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetonitrile, (dimethylamino)- | 84 | C4H8N2 | 000926-64-7 | 37 |
| 2 | 2,2-Dimethyl-1-aza-spiro[2.3]hexane | 111 | C7H13N | 1000194-19-9 | 25 |
| 3 | 1H-Pyrazole, 1-ethyl-3,5-dimethyl- | 124 | C7H12N2 | 017629-26-4 | 22 |
| 4 | Cyclopentane, 1-ethyl-3-methyl-,... | 112 | C8H16 | 002613-65-2 | 14 |
| 5 | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16 | 000930-89-2 | 14 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

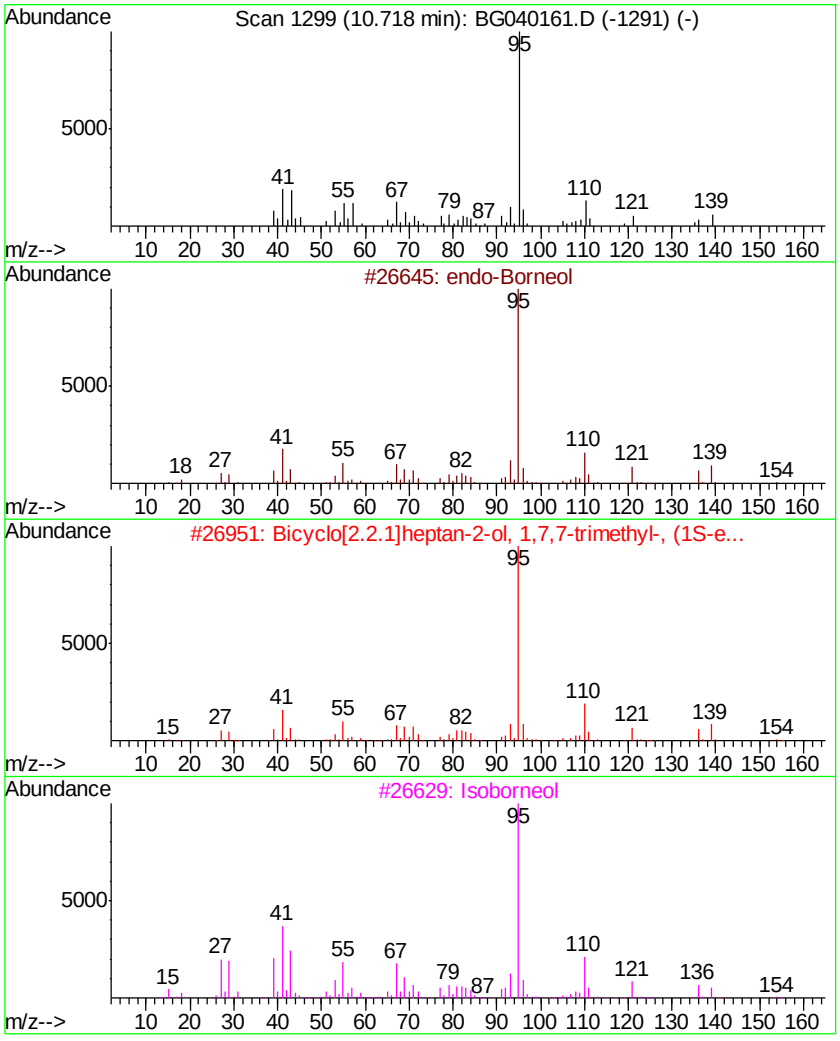
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

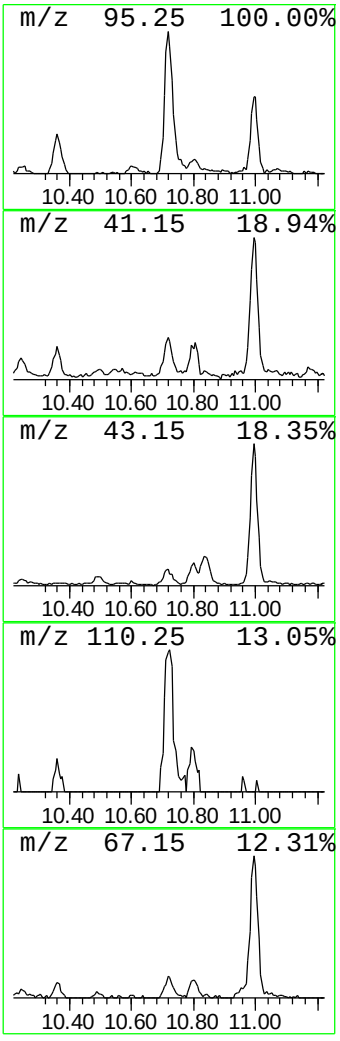
**********

Peak Number 6 endo-Borneol Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.72 | 4.97 ng | 108345 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | endo-Borneol | 154 | C10H18O | 000507-70-0 | 83 |
| 2 | Bicyclo[2.2.1]heptan-2-ol, 1,7,7... | 154 | C10H18O | 000464-45-9 | 78 |
| 3 | Isoborneol | 154 | C10H18O | 000124-76-5 | 74 |
| 4 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 68 |
| 5 | Bicyclo[3.2.1]oct-3-en-2-one, 4-... | 136 | C9H12O | 062702-89-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

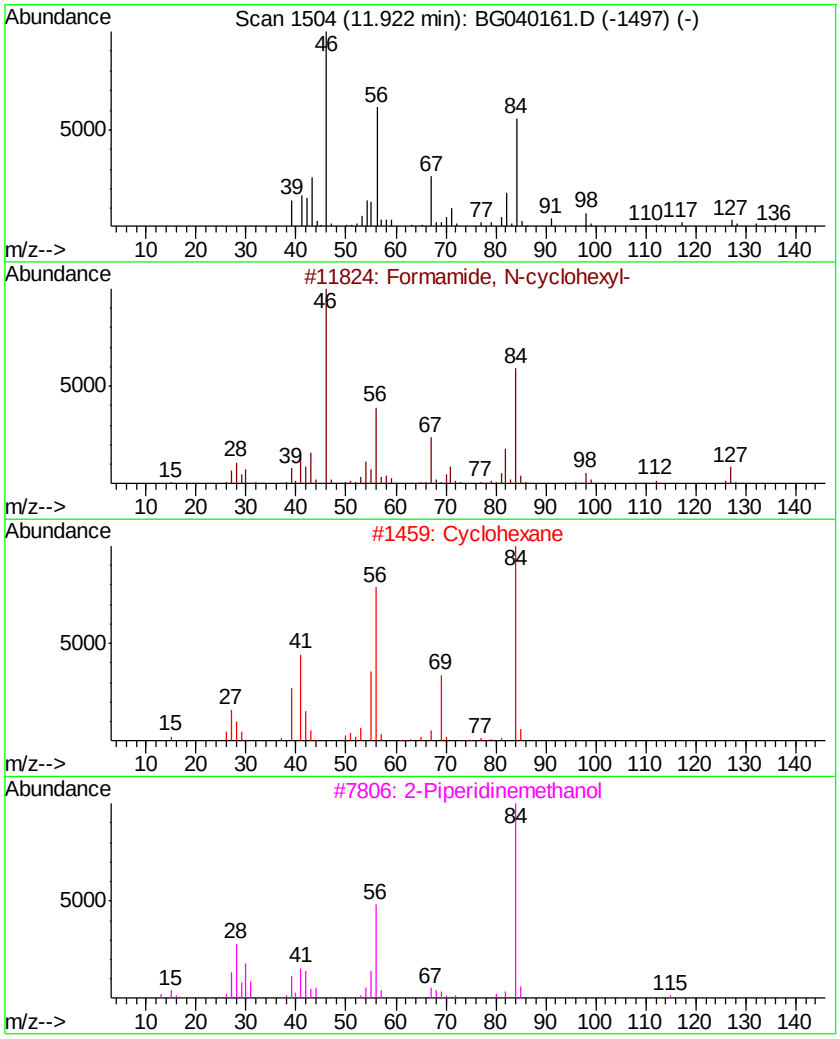
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

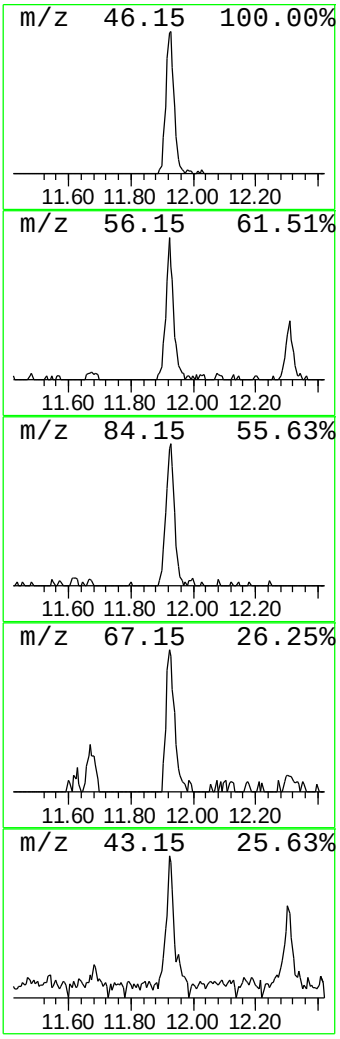
**********

Peak Number 7 Formamide, N-cyclohexyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 4.56 ng | 99444 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Formamide, N-cyclohexyl- | 127 | C7H13NO | 000766-93-8 | 64 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 16 |
| 3 | 2-Piperidinemethanol | 115 | C6H13NO | 003433-37-2 | 16 |
| 4 | 2,3-Dimethylcyclohexylamine | 127 | C8H17N | 042195-92-6 | 14 |
| 5 | 3-Piperidinone, 1-ethyl- | 127 | C7H13NO | 043152-93-8 | 14 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

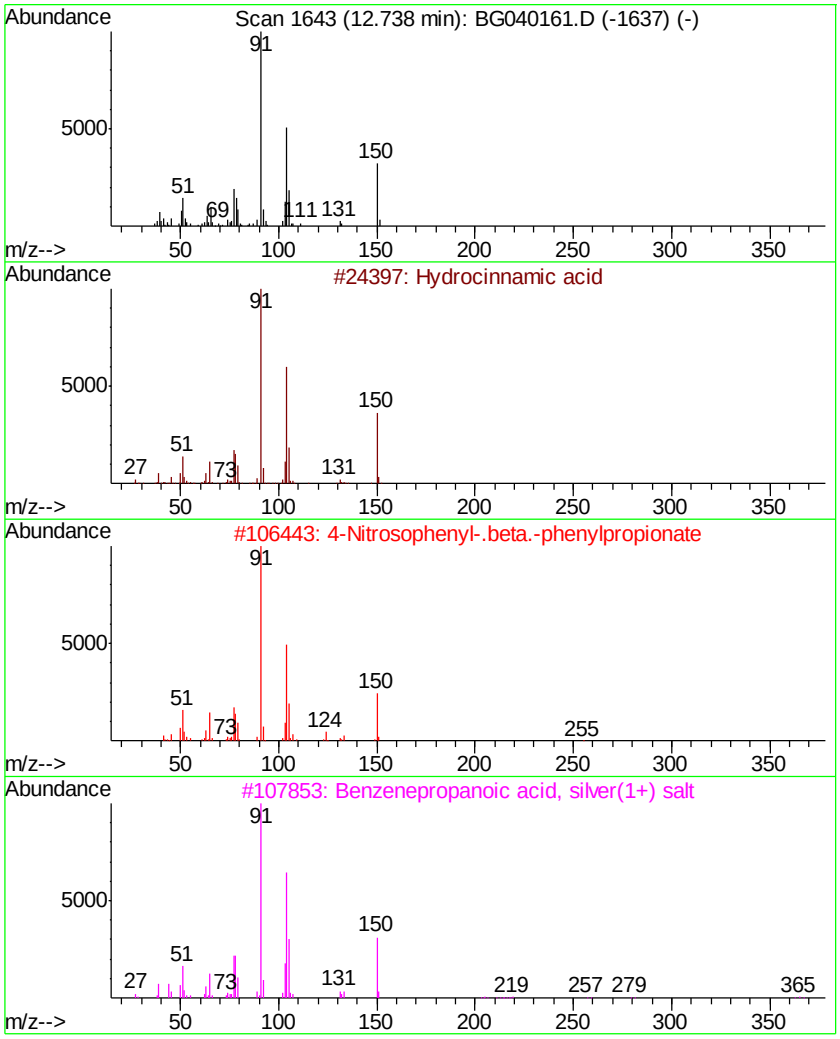
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

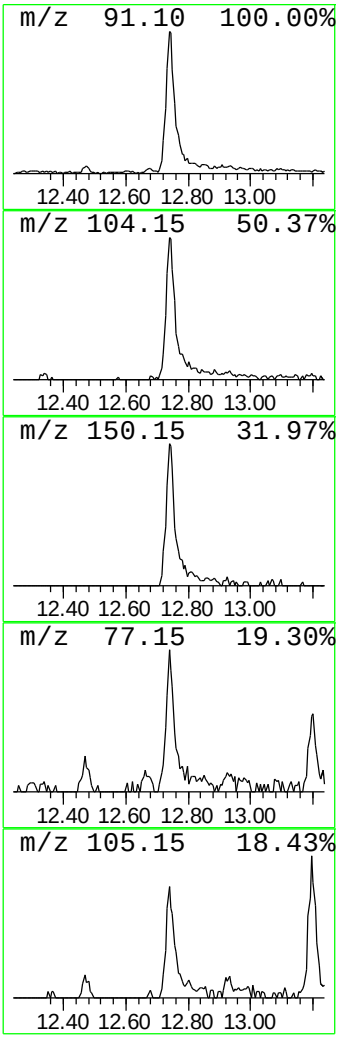
**********

Peak Number 8 Hydrocinnamic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.74 | 6.20 ng | 135370 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydrocinnamic acid | 150 | C9H10O2 | 000501-52-0 | 96 |
| 2 | 4-Nitrosophenyl-.beta.-phenylpro... | 255 | C15H13NO3 | 1000129-40-0 | 90 |
| 3 | Benzenepropanoic acid, silver(1+... | 256 | C9H9AgO2 | 075112-79-7 | 72 |
| 4 | 2-Methylbenzyl alcohol, trifluor... | 218 | C10H9F3O2 | 1000364-57-0 | 43 |
| 5 | 3H-2-Benzopyran-3-one, 1,4-dihydro- | 148 | C9H8O2 | 004385-35-7 | 43 |



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Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

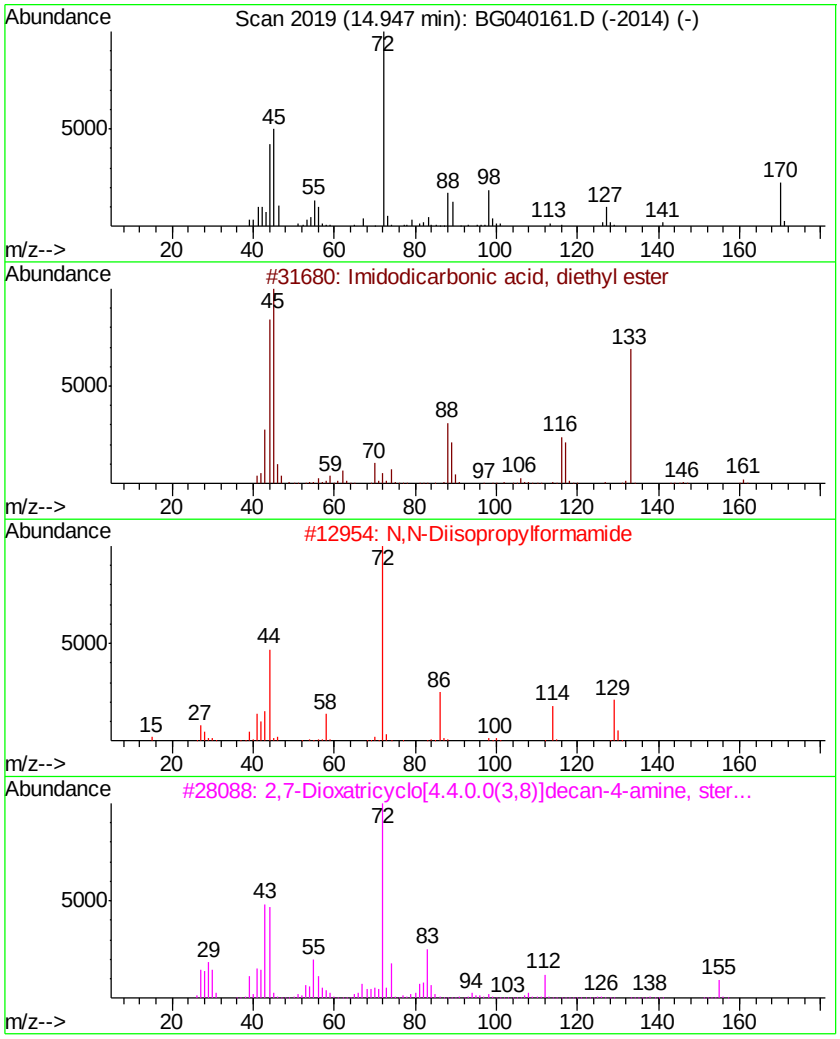
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

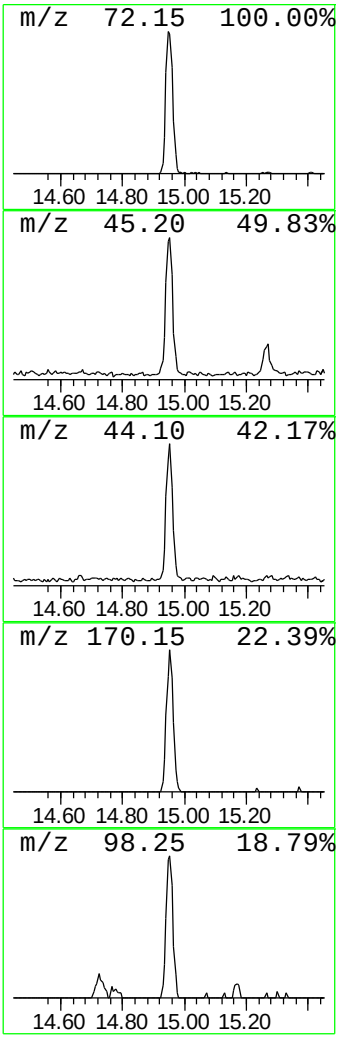
**********

Peak Number 9 unknown14.95 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.95 | 5.04 ng | 147870 | Acenaphthene-d10 | 14.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Imidodicarbonic acid, diethyl ester | 161 | C6H11NO4 | 019617-44-8 | 25 |
| 2 | N,N-Diisopropylformamide | 129 | C7H15NO | 002700-30-3 | 23 |
| 3 | 2,7-Dioxatricyclo[4.4.0.0(3,8)]d... | 155 | C8H13NO2 | 040076-28-6 | 23 |
| 4 | Ethanamine, N-ethyl-N-methyl- | 87 | C5H13N | 000616-39-7 | 23 |
| 5 | D-(-)-Norvaline | 117 | C5H11NO2 | 002013-12-9 | 12 |



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Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

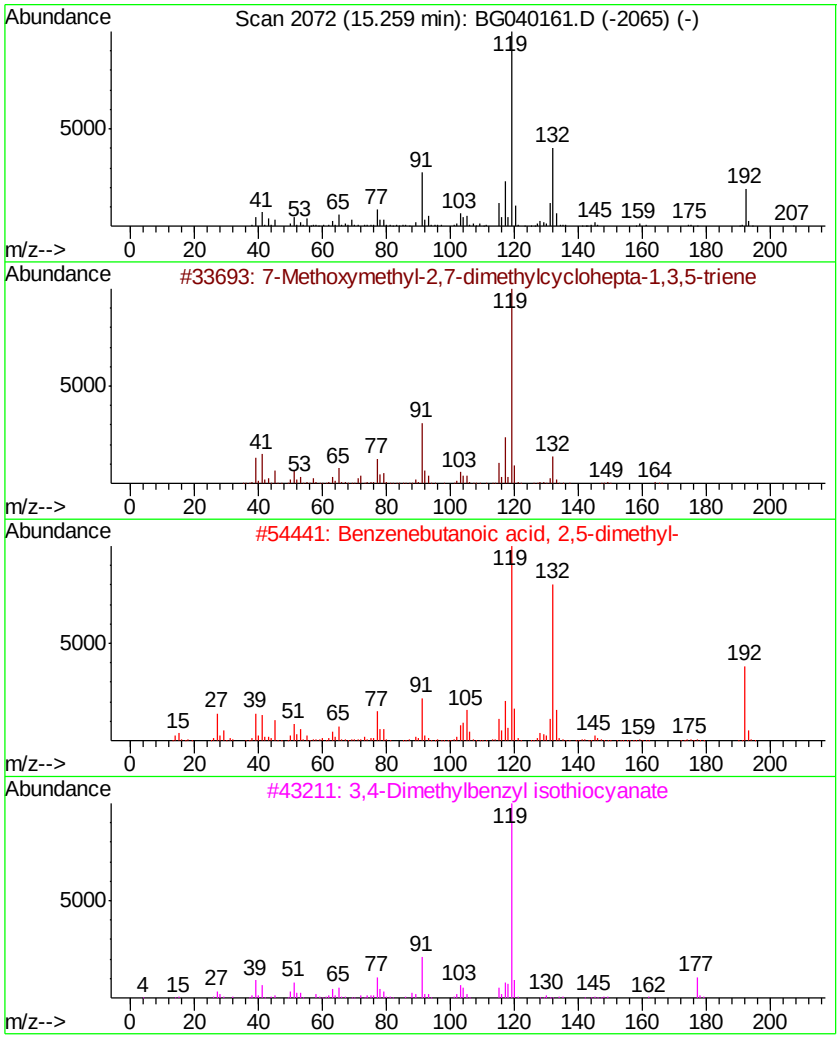
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

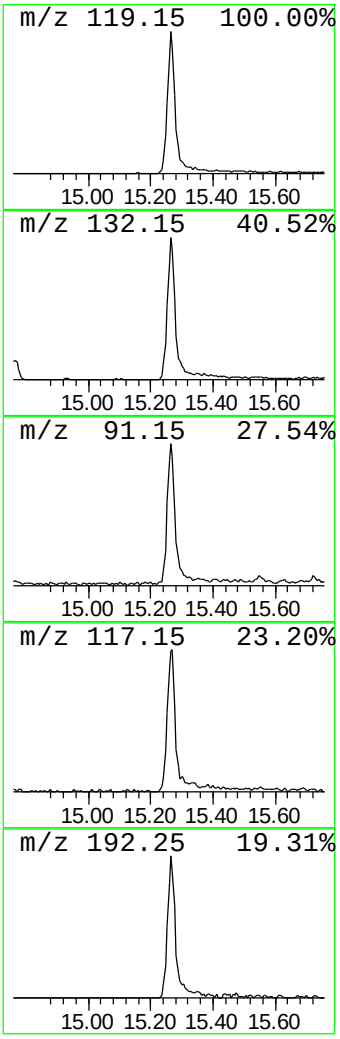
**********

Peak Number 10 7-Methoxymethyl-2,7-dimethy... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.26 | 15.94 ng | 467527 | Acenaphthene-d10 | 14.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Methoxymethyl-2,7-dimethylcycl... | 164 | C11H16O | 073992-48-0 | 86 |
| 2 | Benzenebutanoic acid, 2,5-dimethyl- | 192 | C12H16O2 | 001453-06-1 | 49 |
| 3 | 3,4-Dimethylbenzyl isothiocyanate | 177 | C10H11NS | 206559-59-3 | 45 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 43 |
| 5 | 1-(2-Methoxy-1-methylethyl)-2-me... | 164 | C11H16O | 1000210-02-1 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

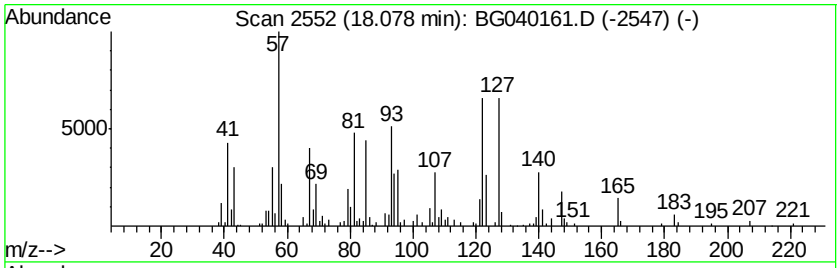
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

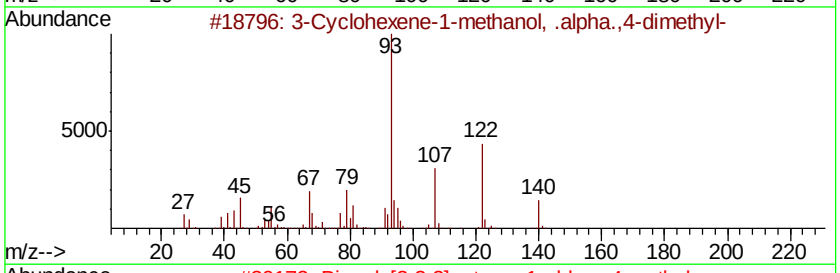
**********

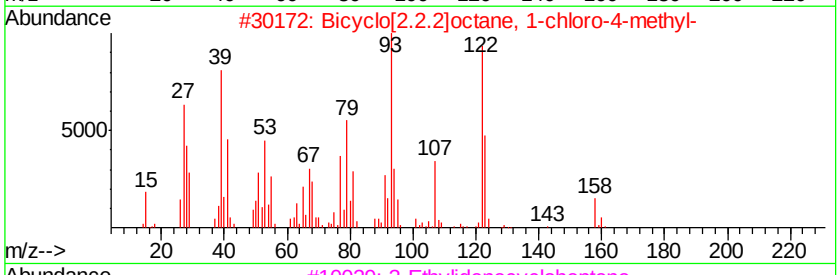
Peak Number 12 unknown18.08 Concentration Rank 16

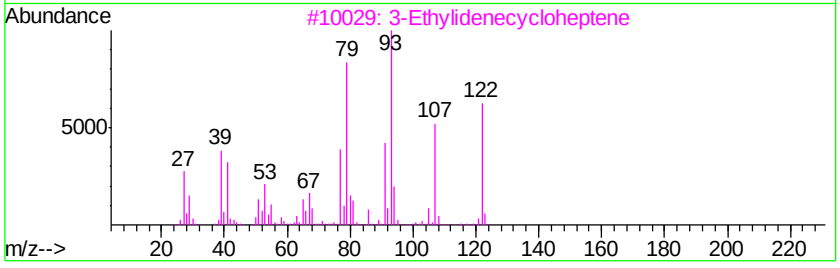
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.08 | 5.40 ng | 190416 | Phenanthrene-d10 | 17.51 |

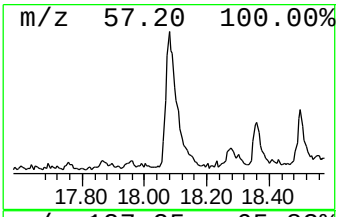
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Cyclohexene-1-methanol, .alpha... | 140 | C9H16O | 055511-67-6 | 35 |
| 2 | Bicyclo[2.2.2]octane, 1-chloro-4... | 158 | C9H15Cl | 007697-06-5 | 27 |
| 3 | 3-Ethylidenecycloheptene | 122 | C9H14 | 1000211-16-7 | 22 |
| 4 | p-Menth-2-en-7-ol, cis- | 154 | C10H18O | 019898-86-3 | 22 |
| 5 | 2-Pyridinamine, 4,6-dimethyl- | 122 | C7H10N2 | 005407-87-4 | 18 |

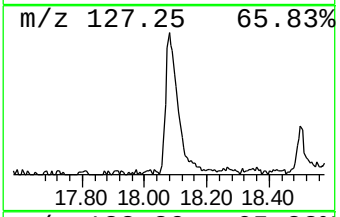


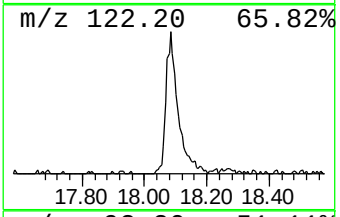



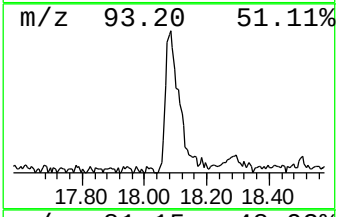



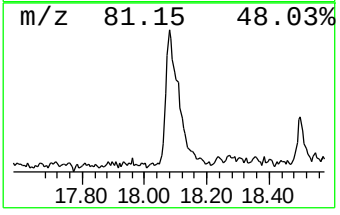



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Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

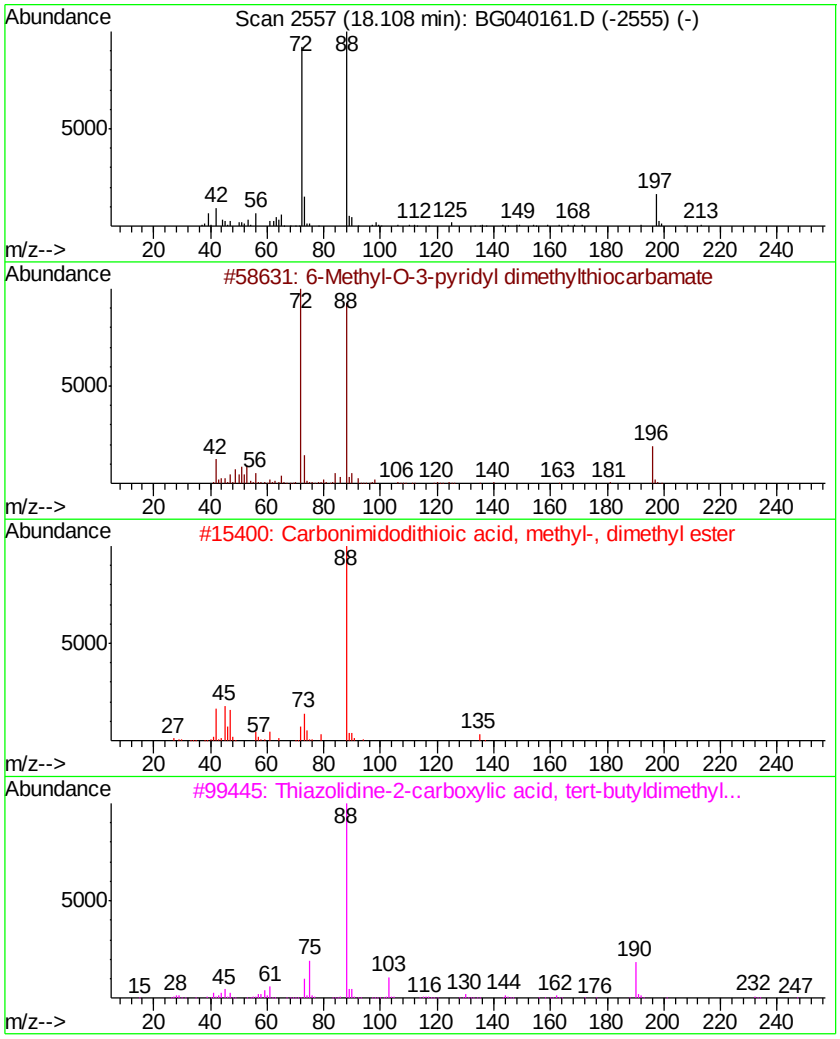
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

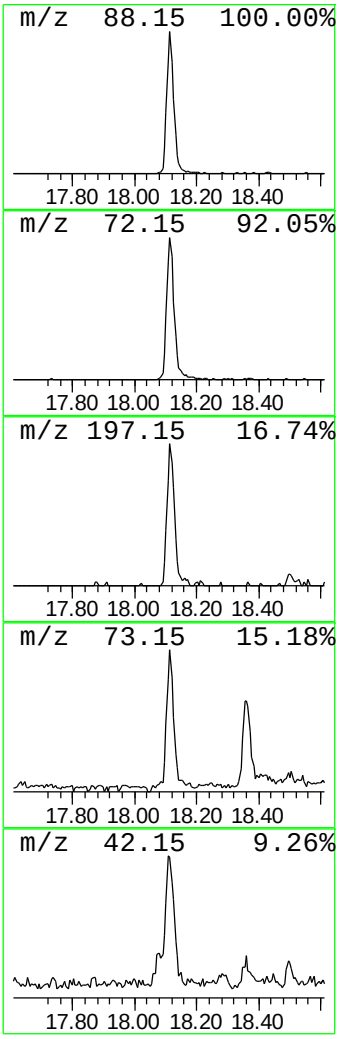
**********

Peak Number 13 6-Methyl-O-3-pyridyl dimeth... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.11 | 8.98 ng | 316434 | Phenanthrene-d10 | 17.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Methyl-O-3-pyridyl dimethylthi... | 196 | C9H12N2OS | 1000213-54-6 | 78 |
| 2 | Carbonimidodithioic acid, methyl... | 135 | C4H9NS2 | 018805-25-9 | 32 |
| 3 | Thiazolidine-2-carboxylic acid, ... | 247 | C10H21NO2SSi | 1000364-30-5 | 23 |
| 4 | Benzeneacetamide, N,N-dimethyl- | 163 | C10H13NO | 018925-69-4 | 17 |
| 5 | Heptanoic acid, 2,4-dimethyl-, m... | 172 | C10H20O2 | 018450-78-7 | 17 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

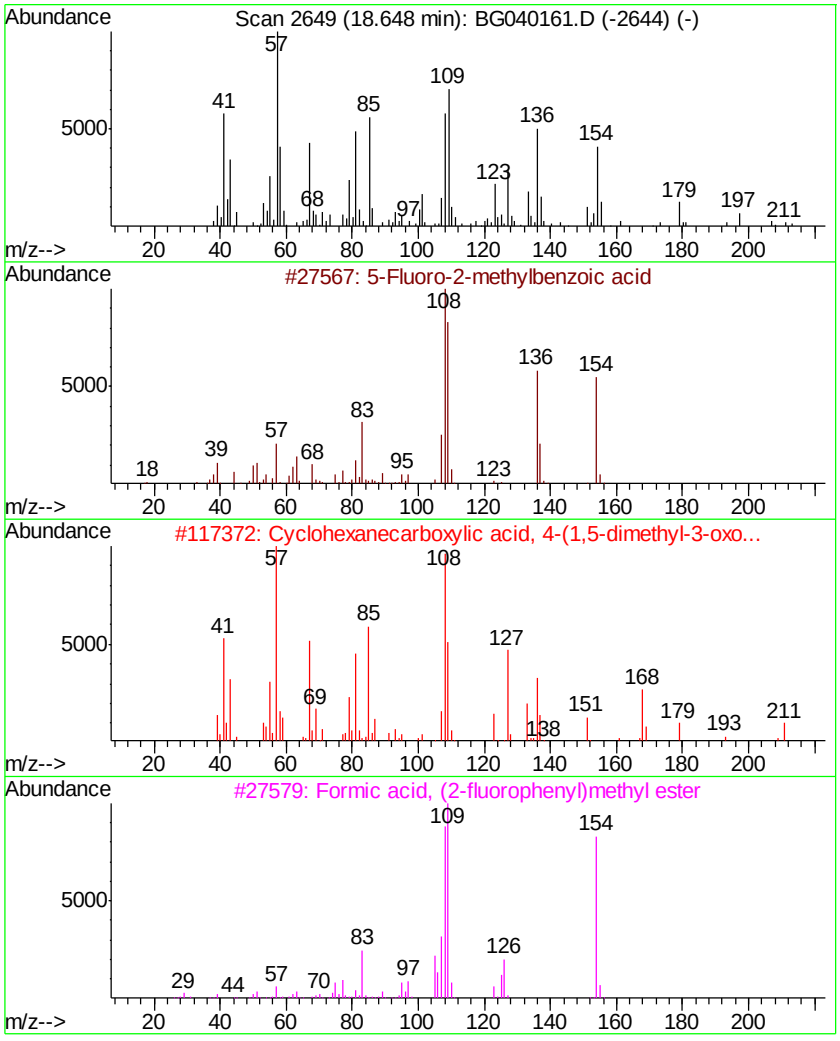
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

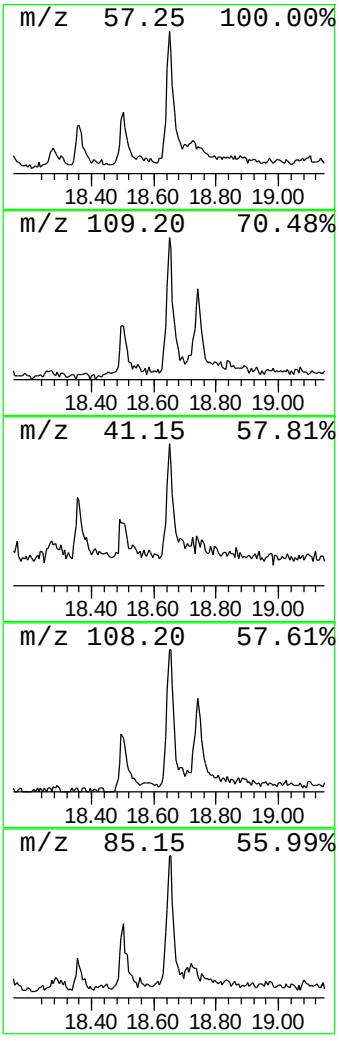
**********

Peak Number 14 unknown18.65 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.65 | 5.82 ng | 205216 | Phenanthrene-d10 | 17.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-methylbenzoic acid | 154 | C8H7FO2 | 033184-16-6 | 38 |
| 2 | Cyclohexanecarboxylic acid, 4-(1... | 268 | C16H28O3 | 017904-29-9 | 35 |
| 3 | Formic acid, (2-fluorophenyl)met... | 154 | C8H7FO2 | 1000368-73-6 | 22 |
| 4 | Bicyclo[2.2.1]heptane-2-carboxal... | 138 | C9H14O | 015780-36-6 | 15 |
| 5 | Bicyclo[3.2.1]octan-8-ol, 1,5-di... | 154 | C10H18O | 060329-20-6 | 14 |



Library Search Compound Report

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Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

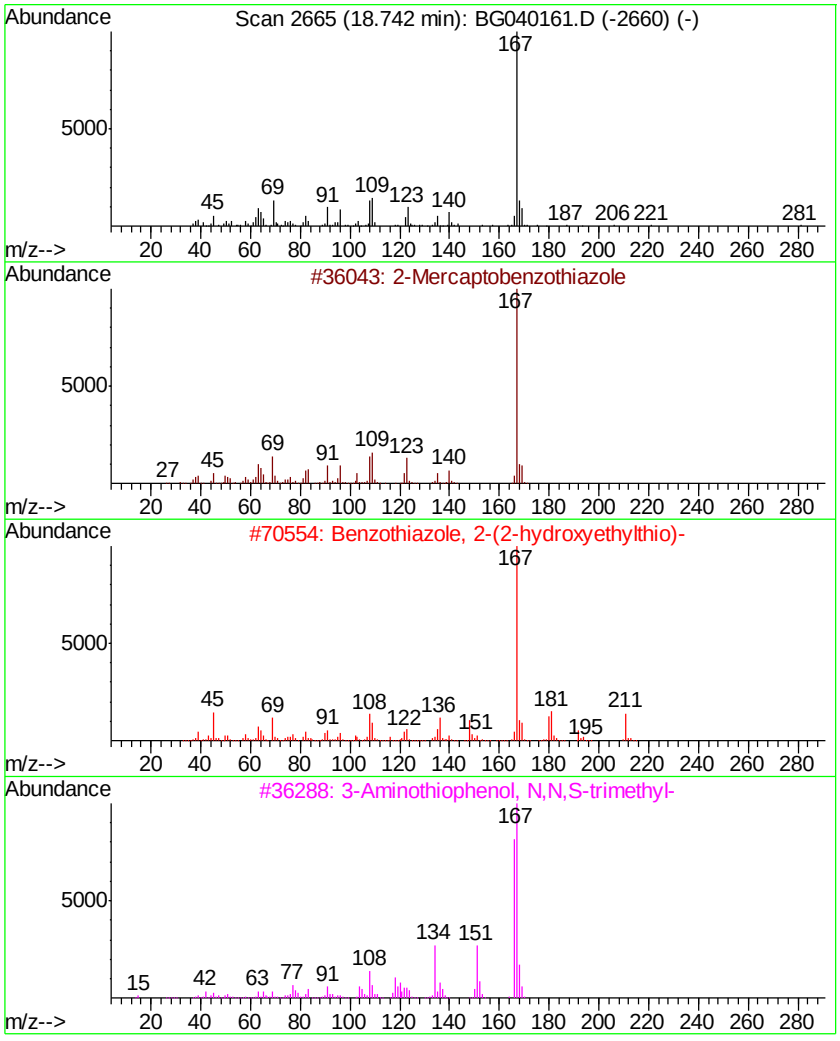
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

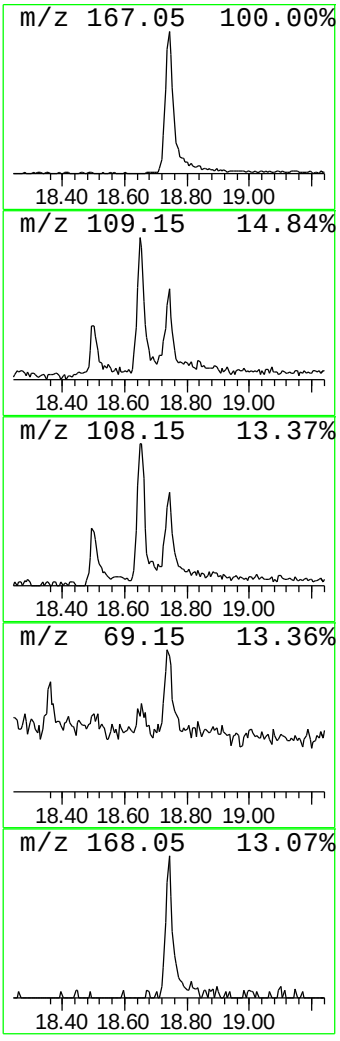
**********

Peak Number 15 2-Mercaptobenzothiazole Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.74 | 5.80 ng | 204448 | Phenanthrene-d10 | 17.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Mercaptobenzothiazole | 167 | C7H5NS2 | 000149-30-4 | 94 |
| 2 | Benzothiazole, 2-(2-hydroxyethyl... | 211 | C9H9NOS2 | 004665-63-8 | 83 |
| 3 | 3-Aminothiophenol, N,N,S-trimethyl- | 167 | C9H13NS | 1000353-08-1 | 64 |
| 4 | Thioguanine | 167 | C5H5N5S | 000154-42-7 | 59 |
| 5 | 1,3-Benzodioxole, 5-nitro- | 167 | C7H5NO4 | 002620-44-2 | 52 |



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Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

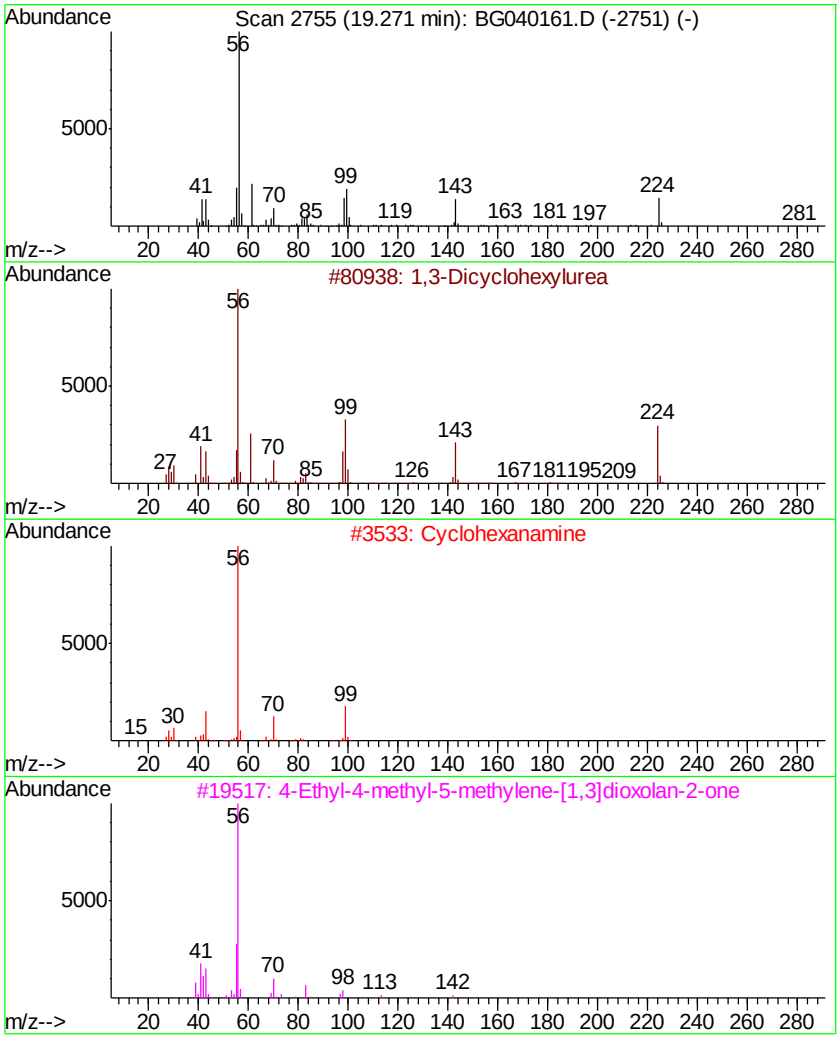
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

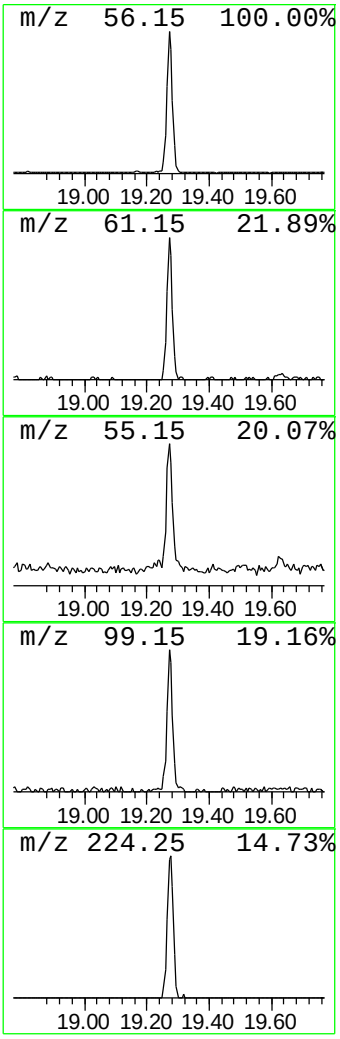
**********

Peak Number 16 1,3-Dicyclohexylurea Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.27 | 6.48 ng | 228248 | Phenanthrene-d10 | 17.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Dicyclohexylurea | 224 | C13H24N2O | 002387-23-7 | 95 |
| 2 | Cyclohexanamine | 99 | C6H13N | 000108-91-8 | 50 |
| 3 | 4-Ethyl-4-methyl-5-methylene-[1,... | 142 | C7H10O3 | 080956-52-1 | 46 |
| 4 | 1-Pentene, 2,4-dimethyl- | 98 | C7H14 | 002213-32-3 | 37 |
| 5 | 1-Hexene, 2-methyl- | 98 | C7H14 | 006094-02-6 | 25 |



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Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

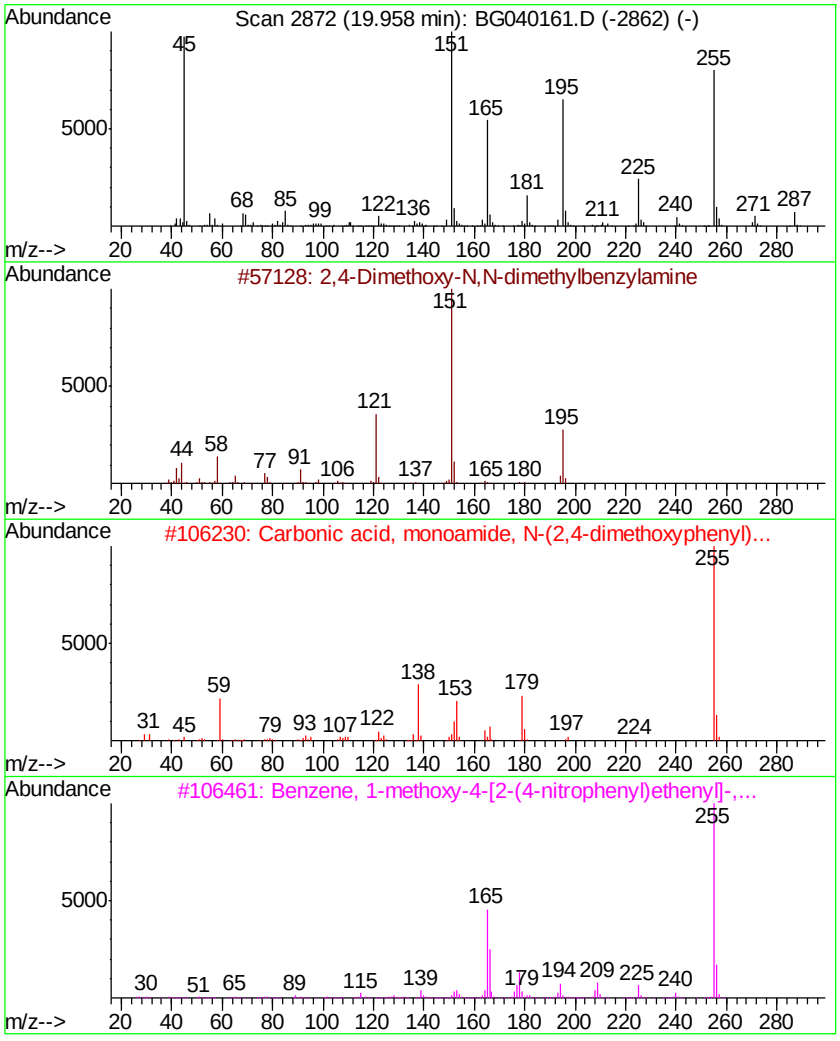
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

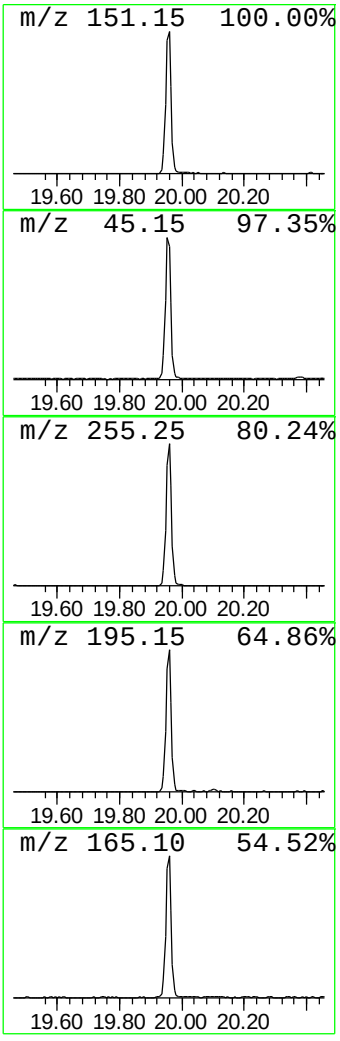
**********

Peak Number 17 unknown19.96 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.96 | 20.97 ng | 815460 | Chrysene-d12 | 21.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethoxy-N,N-dimethylbenzyl... | 195 | C11H17NO2 | 056129-58-9 | 22 |
| 2 | Carbonic acid, monoamide, N-(2,4... | 255 | C12H17NO5 | 1000340-01-9 | 11 |
| 3 | Benzene, 1-methoxy-4-[2-(4-nitro... | 255 | C15H13NO3 | 004648-33-3 | 10 |
| 4 | .alpha.-Amino-3'-hydroxy-4'-meth... | 181 | C9H11NO3 | 090765-44-9 | 10 |
| 5 | 3,4-Dimethoxy-dl-phenylalanine | 225 | C11H15NO4 | 033522-62-2 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

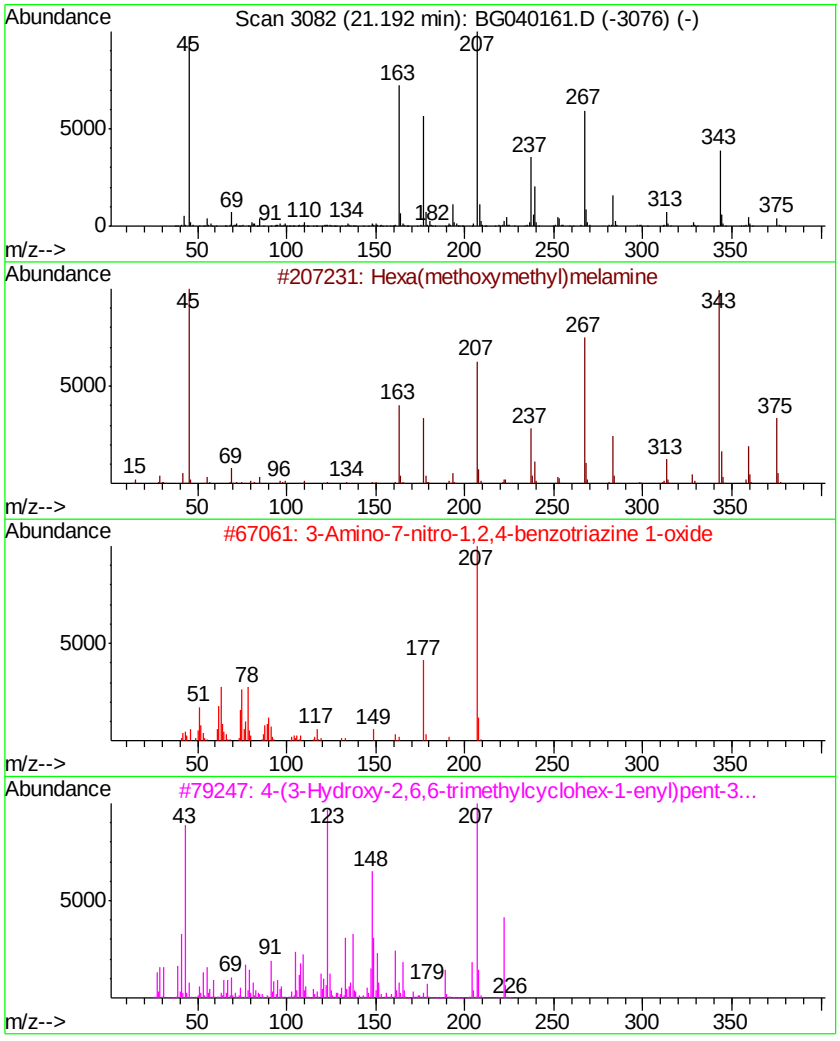
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

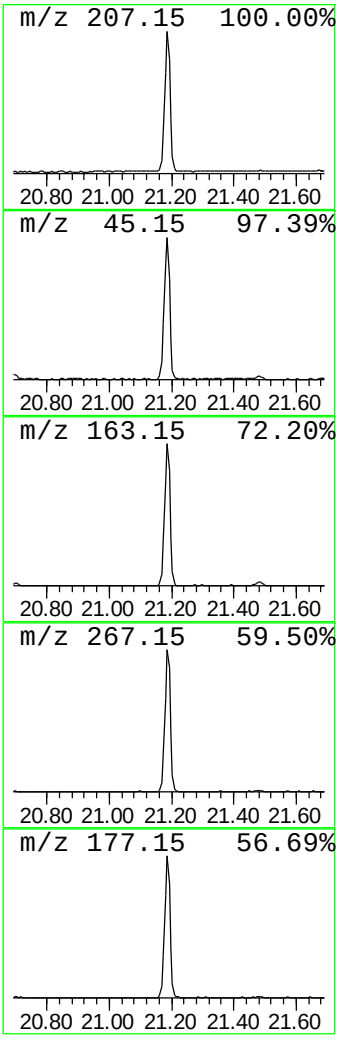
**********

Peak Number 18 unknown21.19 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.19 | 29.40 ng | 1143410 | Chrysene-d12 | 21.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexa(methoxymethyl)melamine | 390 | C15H30N6O6 | 068002-20-0 | 47 |
| 2 | 3-Amino-7-nitro-1,2,4-benzotriaz... | 207 | C7H5N5O3 | 1000256-54-1 | 22 |
| 3 | 4-(3-Hydroxy-2,6,6-trimethylcycl... | 222 | C14H22O2 | 097306-57-5 | 11 |
| 4 | 2-Amino-4-hydroxy-6,8-dimethyl-7... | 207 | C8H9N5O2 | 025477-64-9 | 11 |
| 5 | 2-Ethylacridine | 207 | C15H13N | 055751-83-2 | 10 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

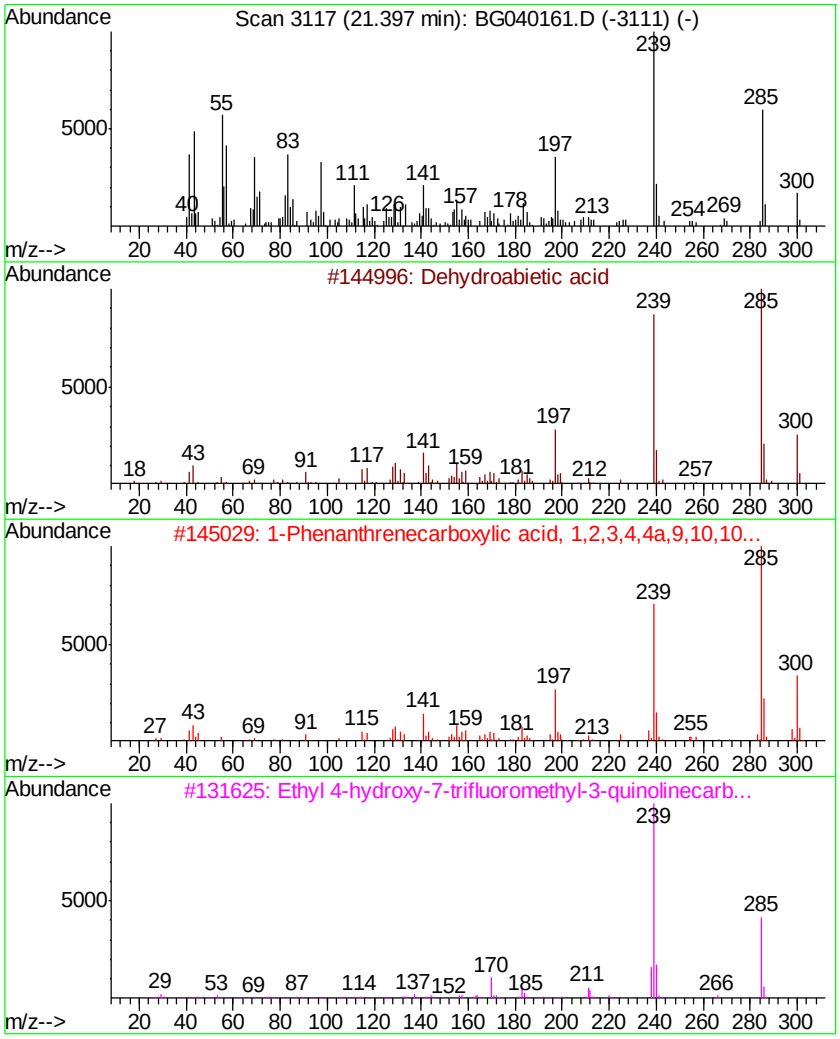
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

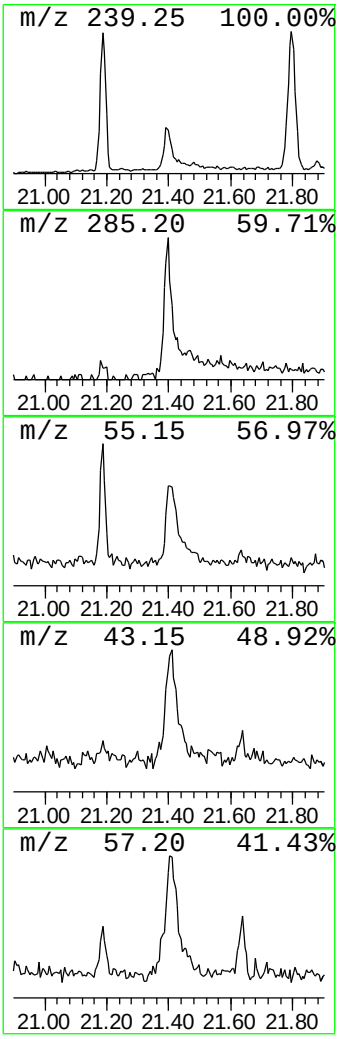
**********

Peak Number 19 Dehydroabietic acid Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.40 | 5.91 ng | 229873 | Chrysene-d12 | 21.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dehydroabietic acid | 300 | C20H28O2 | 001740-19-8 | 94 |
| 2 | 1-Phenanthrenecarboxylic acid, 1... | 300 | C20H28O2 | 005155-70-4 | 90 |
| 3 | Ethyl 4-hydroxy-7-trifluoromethy... | 285 | C13H10F3NO3 | 000391-02-6 | 47 |
| 4 | 4-[4-Cyanothiophenoxy]benzaldehyde | 239 | C14H9NOS | 1000212-26-1 | 42 |
| 5 | Imidazolo[2,1-b]thiazole, 5-(3-i... | 239 | C13H9N3S | 327097-37-0 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

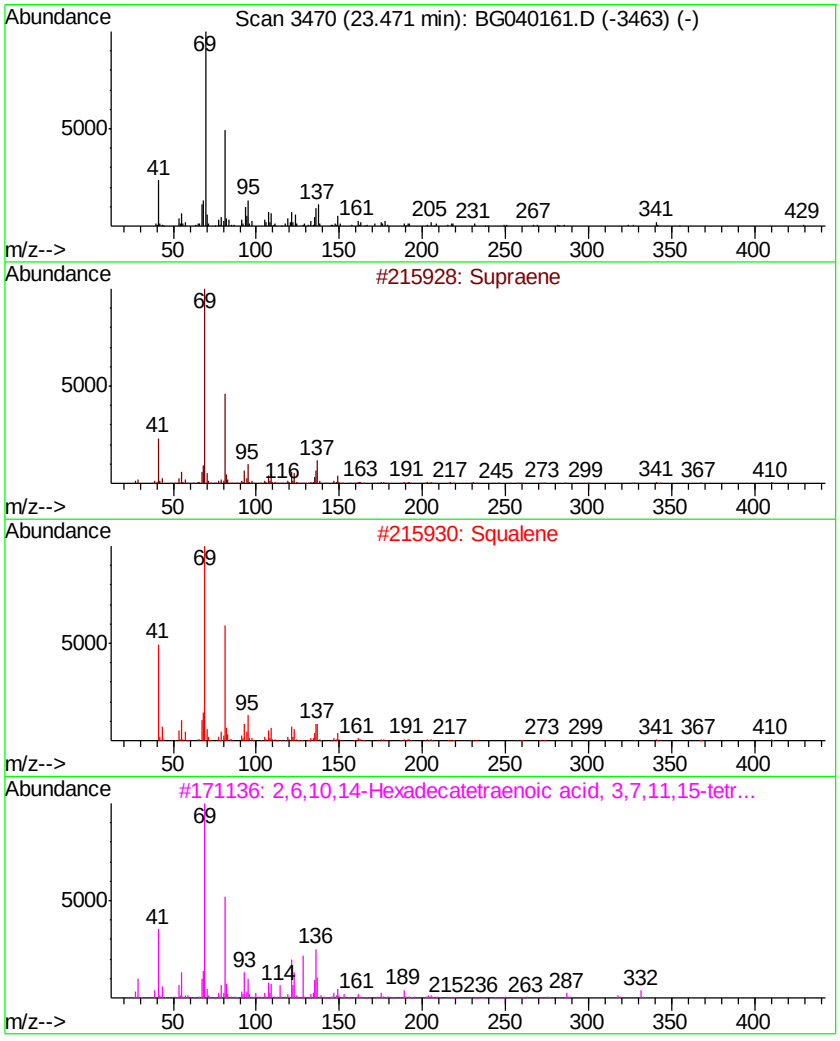
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

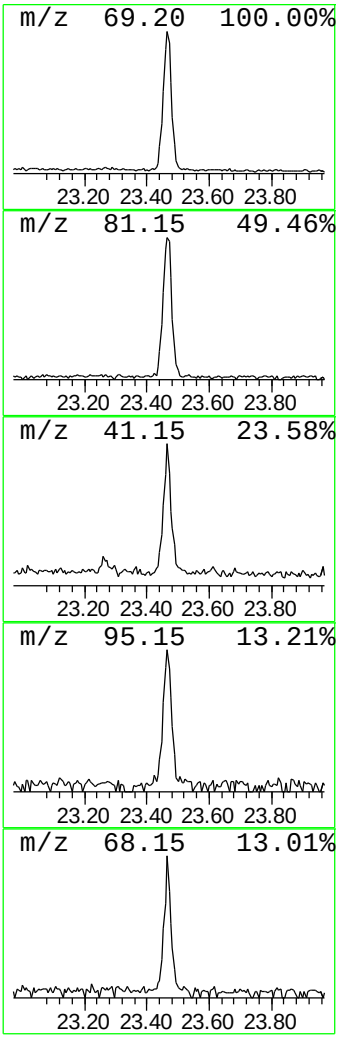
**********

Peak Number 20 Supraene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.47 | 4.94 ng | 192303 | Chrysene-d12 | 21.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 91 |
| 2 | Squalene | 410 | C30H50 | 000111-02-4 | 91 |
| 3 | 2,6,10,14-Hexadecatetraenoic aci... | 332 | C22H36O2 | 024035-35-6 | 72 |
| 4 | 5,9,13-Pentadecatrien-2-one, 6,1... | 262 | C18H30O | 001117-52-8 | 64 |
| 5 | 2,6-Octadiene, 2,6-dimethyl- | 138 | C10H18 | 002792-39-4 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032619\
Data File : BG040161.D
Acq On : 27 Mar 2019 00:19
Operator : JU/SJ
Sample : K2099-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SHORE-RD-CLVRT-STLD-2H-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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... | 3.27 | 43.1 | ng | 661640 | 1 | 8.14 | 306754 | 20.0 |
| unknown7.66 | 7.66 | 46.2 | ng | 708516 | 1 | 8.14 | 306754 | 20.0 |
| unknown8.81 | 8.81 | 8.8 | ng | 134188 | 1 | 8.14 | 306754 | 20.0 |
| endo-Borneol | 10.72 | 5.0 | ng | 108345 | 2 | 10.96 | 436377 | 20.0 |
| Formamide, N-cycl... | 11.92 | 4.6 | ng | 99444 | 2 | 10.96 | 436377 | 20.0 |
| Hydrocinnamic acid | 12.74 | 6.2 | ng | 135370 | 2 | 10.96 | 436377 | 20.0 |
| unknown14.95 | 14.95 | 5.0 | ng | 147870 | 3 | 14.77 | 586692 | 20.0 |
| 7-Methoxymethyl-2... | 15.26 | 15.9 | ng | 467527 | 3 | 14.77 | 586692 | 20.0 |
| unknown18.08 | 18.08 | 5.4 | ng | 190416 | 4 | 17.51 | 704639 | 20.0 |
| 6-Methyl-O-3-pyri... | 18.11 | 9.0 | ng | 316434 | 4 | 17.51 | 704639 | 20.0 |
| unknown18.65 | 18.65 | 5.8 | ng | 205216 | 4 | 17.51 | 704639 | 20.0 |
| 2-Mercaptobenzoth... | 18.74 | 5.8 | ng | 204448 | 4 | 17.51 | 704639 | 20.0 |
| 1,3-Dicyclohexylurea | 19.27 | 6.5 | ng | 228248 | 4 | 17.51 | 704639 | 20.0 |
| unknown19.96 | 19.96 | 21.0 | ng | 815460 | 5 | 21.79 | 777884 | 20.0 |
| unknown21.19 | 21.19 | 29.4 | ng | 1143410 | 5 | 21.79 | 777884 | 20.0 |
| Dehydroabietic acid | 21.40 | 5.9 | ng | 229873 | 5 | 21.79 | 777884 | 20.0 |
| Supraene | 23.47 | 4.9 | ng | 192303 | 5 | 21.79 | 777884 | 20.0 |