LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.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 | 4.940 | 393 | 400 | 410 | rVB | 212804 | 336986 | 2.61% | 0.309% |
| 2 | 6.099 | 589 | 597 | 610 | rBV6 | 111437 | 310577 | 2.41% | 0.285% |
| 3 | 6.328 | 625 | 636 | 640 | rBV5 | 64946 | 195545 | 1.52% | 0.179% |
| 4 | 6.487 | 657 | 663 | 673 | rVB | 209012 | 384641 | 2.98% | 0.353% |
| 5 | 6.810 | 708 | 718 | 723 | rBV6 | 88190 | 221489 | 1.72% | 0.203% |
| 6 | 6.957 | 739 | 743 | 746 | rVV4 | 273519 | 493789 | 3.83% | 0.453% |
| 7 | 6.998 | 746 | 750 | 760 | rVB | 537837 | 983909 | 7.63% | 0.903% |
| 8 | 7.151 | 770 | 776 | 781 | rBV | 422407 | 680348 | 5.28% | 0.624% |
| 9 | 7.198 | 781 | 784 | 789 | rVB3 | 88448 | 130014 | 1.01% | 0.119% |
| 10 | 7.357 | 806 | 811 | 819 | rVB | 522312 | 894386 | 6.94% | 0.820% |
| 11 | 7.528 | 835 | 840 | 847 | rVB2 | 165468 | 339632 | 2.63% | 0.312% |
| 12 | 7.640 | 852 | 859 | 866 | rVB4 | 79439 | 205433 | 1.59% | 0.188% |
| 13 | 7.740 | 866 | 876 | 879 | rBV5 | 166507 | 462530 | 3.59% | 0.424% |
| 14 | 7.793 | 879 | 885 | 887 | rVV2 | 433033 | 808031 | 6.27% | 0.741% |
| 15 | 7.816 | 887 | 889 | 895 | rVB | 531701 | 786581 | 6.10% | 0.722% |
| 16 | 7.887 | 895 | 901 | 906 | rVB4 | 143355 | 285285 | 2.21% | 0.262% |
| 17 | 7.957 | 906 | 913 | 915 | rBV4 | 111463 | 243574 | 1.89% | 0.223% |
| 18 | 7.998 | 915 | 920 | 924 | rVB4 | 184551 | 330409 | 2.56% | 0.303% |
| 19 | 8.163 | 945 | 948 | 954 | rVB3 | 96678 | 163794 | 1.27% | 0.150% |
| 20 | 8.340 | 970 | 978 | 981 | rBV2 | 222926 | 493996 | 3.83% | 0.453% |
| 21 | 8.369 | 981 | 983 | 987 | rVB2 | 154236 | 218783 | 1.70% | 0.201% |
| 22 | 8.475 | 993 | 1001 | 1005 | rBV4 | 100669 | 230507 | 1.79% | 0.211% |
| 23 | 8.534 | 1005 | 1011 | 1016 | rBV | 665307 | 1096937 | 8.51% | 1.006% |
| 24 | 8.581 | 1016 | 1019 | 1026 | rVB4 | 102257 | 166428 | 1.29% | 0.153% |
| 25 | 8.645 | 1026 | 1030 | 1035 | rBV | 405992 | 708002 | 5.49% | 0.649% |
| 26 | 8.916 | 1066 | 1076 | 1081 | rBV3 | 404472 | 1143954 | 8.87% | 1.049% |
| 27 | 8.981 | 1081 | 1087 | 1091 | rBV | 431281 | 768062 | 5.96% | 0.705% |
| 28 | 9.075 | 1100 | 1103 | 1107 | rVB3 | 138307 | 212439 | 1.65% | 0.195% |
| 29 | 9.128 | 1107 | 1112 | 1114 | rBV3 | 304492 | 473560 | 3.67% | 0.434% |
| 30 | 9.163 | 1114 | 1118 | 1125 | rVB4 | 372434 | 796103 | 6.17% | 0.730% |
| 31 | 9.240 | 1126 | 1131 | 1133 | rBV3 | 152290 | 272138 | 2.11% | 0.250% |
| 32 | 9.287 | 1134 | 1139 | 1144 | rVB2 | 203751 | 493516 | 3.83% | 0.453% |
| 33 | 9.457 | 1164 | 1168 | 1172 | rVB2 | 244740 | 332041 | 2.57% | 0.305% |
| 34 | 9.534 | 1174 | 1181 | 1186 | rBV | 789956 | 1328766 | 10.30% | 1.219% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.698 | 1204 | 1209 | 1213 | rBV2 | 449588 | 701156 | 5.44% | 0.643% |
| 36 | 9.739 | 1213 | 1216 | 1220 | rVB2 | 197540 | 269654 | 2.09% | 0.247% |
| 37 | 9.792 | 1220 | 1225 | 1232 | rBV3 | 1092972 | 1801814 | 13.97% | 1.653% |
| 38 | 9.863 | 1234 | 1237 | 1238 | rBV2 | 149626 | 157569 | 1.22% | 0.145% |
| 39 | 9.892 | 1239 | 1242 | 1246 | rVB2 | 300621 | 405239 | 3.14% | 0.372% |
| 40 | 9.957 | 1249 | 1253 | 1258 | rVB2 | 368427 | 608932 | 4.72% | 0.559% |
| 41 | 10.034 | 1259 | 1266 | 1270 | rBV4 | 301403 | 712006 | 5.52% | 0.653% |
| 42 | 10.139 | 1281 | 1284 | 1288 | rVB2 | 196372 | 225007 | 1.74% | 0.206% |
| 43 | 10.192 | 1290 | 1293 | 1297 | rVV5 | 183367 | 323764 | 2.51% | 0.297% |
| 44 | 10.245 | 1298 | 1302 | 1308 | rVB | 701886 | 1136272 | 8.81% | 1.042% |
| 45 | 10.310 | 1309 | 1313 | 1316 | rBV2 | 359559 | 625609 | 4.85% | 0.574% |
| 46 | 10.392 | 1323 | 1327 | 1333 | rBV2 | 324498 | 571419 | 4.43% | 0.524% |
| 47 | 10.475 | 1337 | 1341 | 1342 | rBV | 182939 | 243415 | 1.89% | 0.223% |
| 48 | 10.616 | 1354 | 1365 | 1372 | rBV5 | 1005245 | 3253031 | 25.23% | 2.984% |
| 49 | 10.734 | 1380 | 1385 | 1386 | rBV3 | 464922 | 684230 | 5.31% | 0.628% |
| 50 | 10.769 | 1387 | 1391 | 1397 | rVB | 1640217 | 2822118 | 21.88% | 2.589% |
| 51 | 10.834 | 1397 | 1402 | 1409 | rBV8 | 534006 | 1190325 | 9.23% | 1.092% |
| 52 | 10.904 | 1411 | 1414 | 1419 | rVB5 | 409890 | 605581 | 4.70% | 0.556% |
| 53 | 11.098 | 1442 | 1447 | 1453 | rVB4 | 996594 | 1756556 | 13.62% | 1.611% |
| 54 | 11.275 | 1473 | 1477 | 1479 | rBV3 | 549958 | 915258 | 7.10% | 0.840% |
| 55 | 11.375 | 1491 | 1494 | 1501 | rVB3 | 443142 | 826703 | 6.41% | 0.758% |
| 56 | 11.445 | 1502 | 1506 | 1511 | rVB6 | 577146 | 878329 | 6.81% | 0.806% |
| 57 | 11.639 | 1533 | 1539 | 1543 | rBV | 2387980 | 4290633 | 33.27% | 3.936% |
| 58 | 11.804 | 1564 | 1567 | 1570 | rBV | 387937 | 577858 | 4.48% | 0.530% |
| 59 | 11.898 | 1579 | 1583 | 1588 | rBV5 | 751766 | 1150636 | 8.92% | 1.056% |
| 60 | 12.669 | 1708 | 1714 | 1718 | rBV5 | 1116365 | 2271102 | 17.61% | 2.083% |
| 61 | 12.998 | 1766 | 1770 | 1775 | rVB2 | 3370231 | 5245726 | 40.68% | 4.812% |
| 62 | 13.610 | 1870 | 1874 | 1875 | rBV3 | 818452 | 1100452 | 8.53% | 1.009% |
| 63 | 13.951 | 1927 | 1932 | 1936 | rVB2 | 3698936 | 5601112 | 43.44% | 5.138% |
| 64 | 13.992 | 1936 | 1939 | 1947 | rVB5 | 1022696 | 1738211 | 13.48% | 1.595% |
| 65 | 14.163 | 1964 | 1968 | 1972 | rBV3 | 1119195 | 1654349 | 12.83% | 1.518% |
| 66 | 14.869 | 2085 | 2088 | 2092 | rVB | 1493730 | 1880535 | 14.58% | 1.725% |
| 67 | 14.986 | 2105 | 2108 | 2119 | rVB9 | 1540973 | 3694209 | 28.65% | 3.389% |
| 68 | 15.727 | 2229 | 2234 | 2240 | rVB2 | 3414528 | 5374940 | 41.68% | 4.931% |
| 69 | 15.968 | 2272 | 2275 | 2277 | rBV | 899995 | 1269628 | 9.85% | 1.165% |
| 70 | 16.204 | 2309 | 2315 | 2327 | rVB2 | 6254887 | 12895378 | 100.00% | 11.829% |
| 71 | 16.327 | 2333 | 2336 | 2340 | rVB2 | 1478075 | 1904235 | 14.77% | 1.747% |

LSC Area Percent Report

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Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.580 | 2375 | 2379 | 2384 | rBV3 | 2215274 | 3565747 | 27.65% | 3.271% |
| 73 | 17.021 | 2450 | 2454 | 2458 | rBV2 | 3164478 | 4425567 | 34.32% | 4.060% |
| 74 | 17.315 | 2501 | 2504 | 2512 | rVB2 | 2184310 | 3560215 | 27.61% | 3.266% |
| 75 | 17.621 | 2552 | 2556 | 2561 | rBV4 | 1934699 | 3094881 | 24.00% | 2.839% |
| 76 | 19.598 | 2889 | 2892 | 2896 | rBV2 | 1564928 | 2273002 | 17.63% | 2.085% |
| 77 | 19.704 | 2906 | 2910 | 2916 | rVB | 1419865 | 2373924 | 18.41% | 2.178% |
| 78 | 21.380 | 3192 | 3195 | 3199 | rVB | 1127746 | 1361901 | 10.56% | 1.249% |

Sum of corrected areas: 109010413

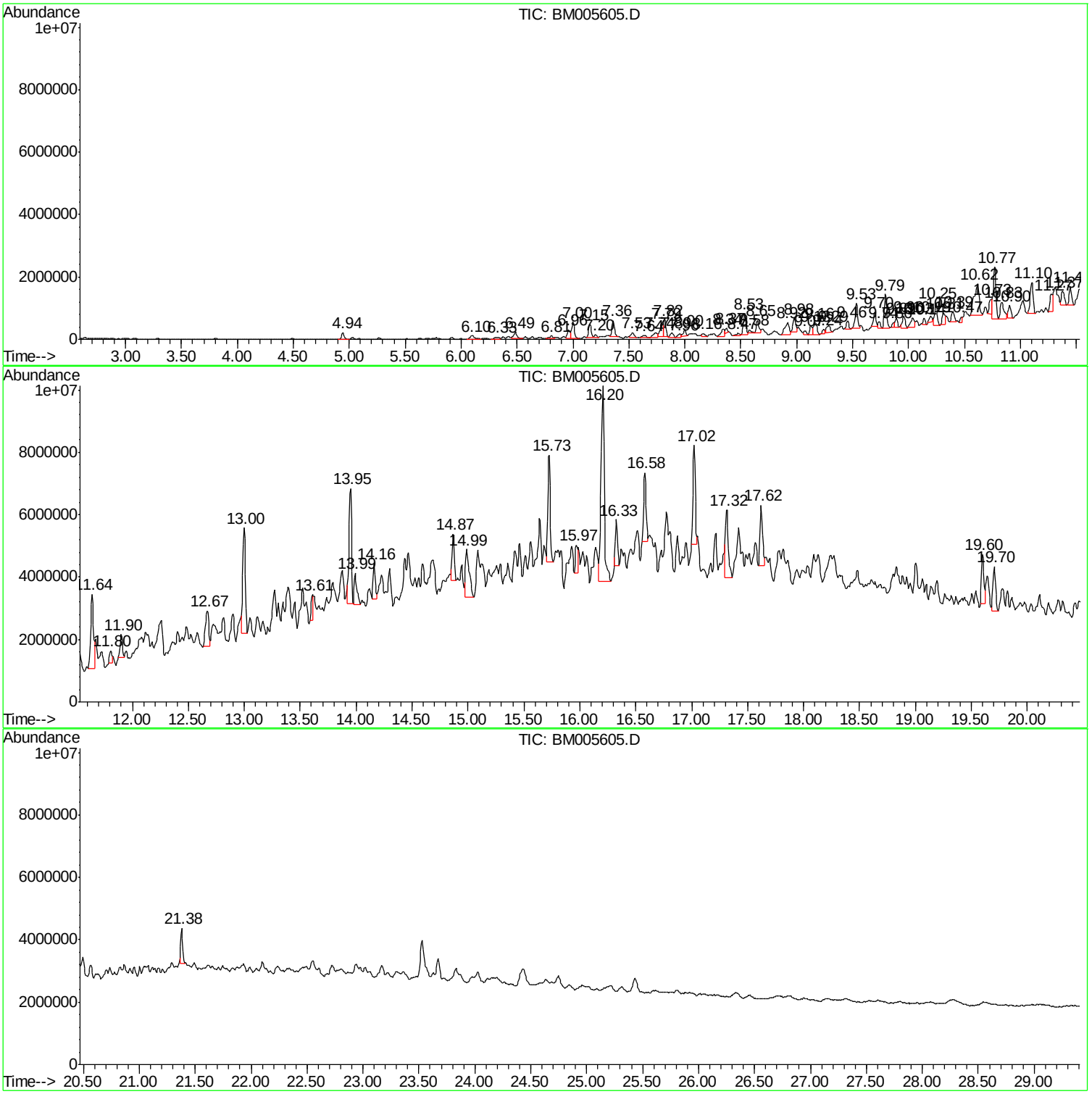
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

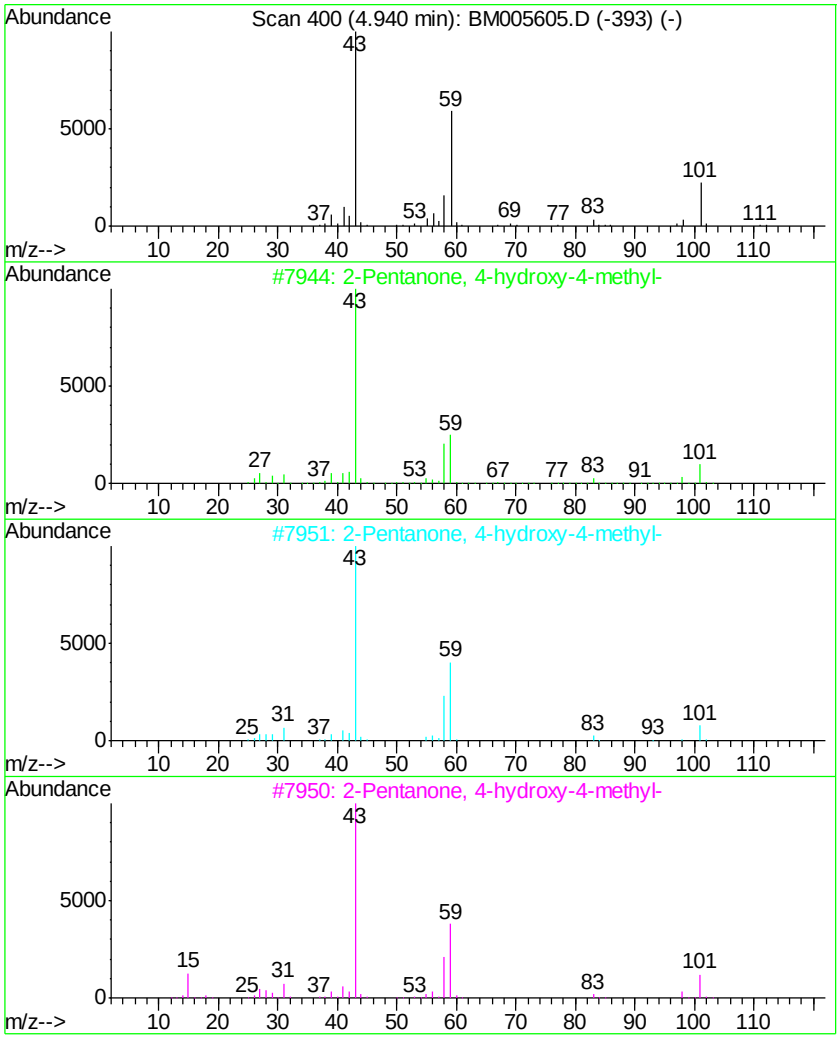
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

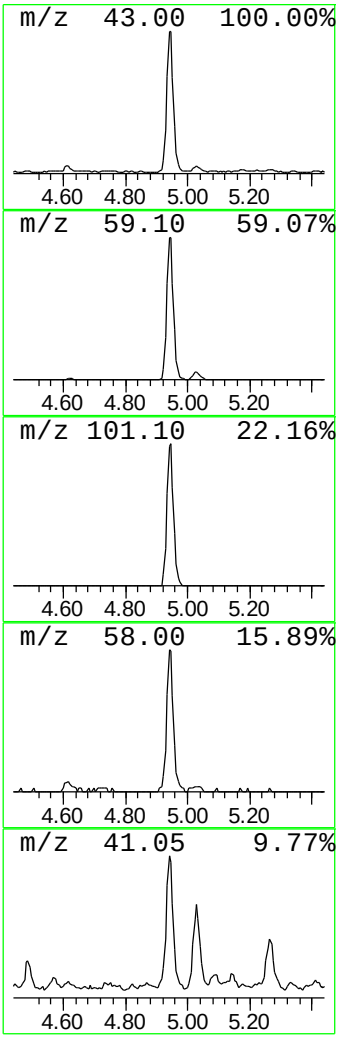
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.94 | 8.57 ng/ul | 336986 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 3 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 5 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 12 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

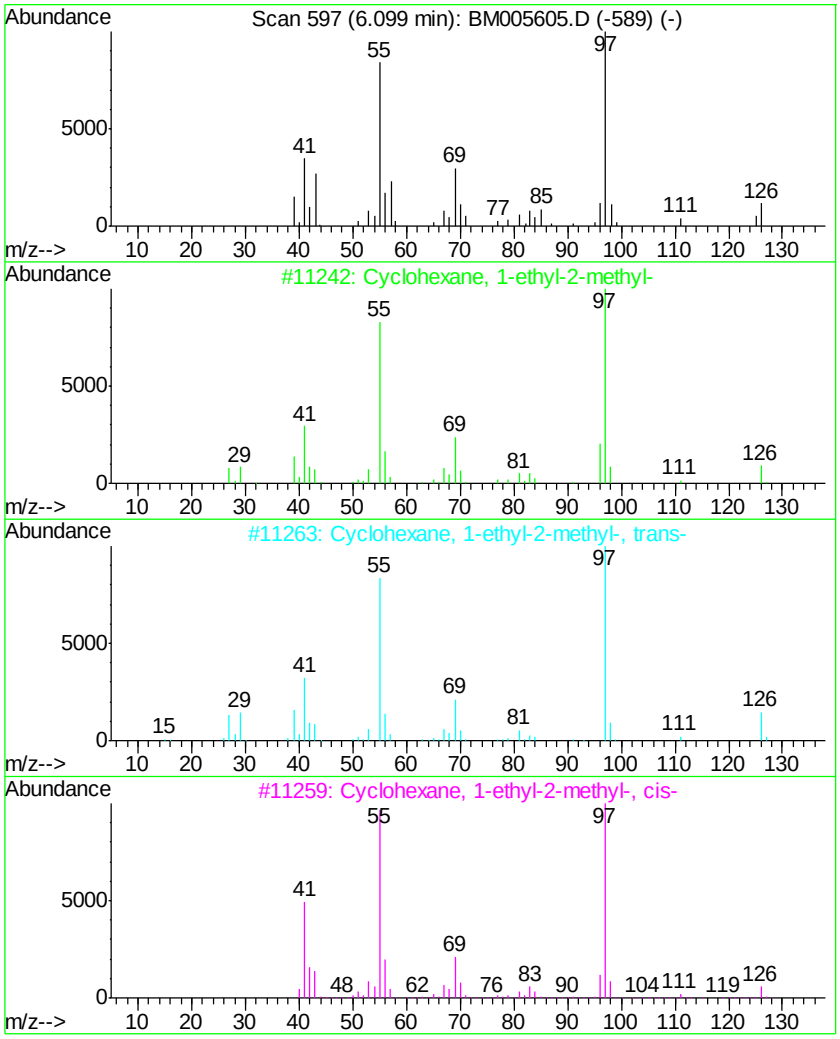
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

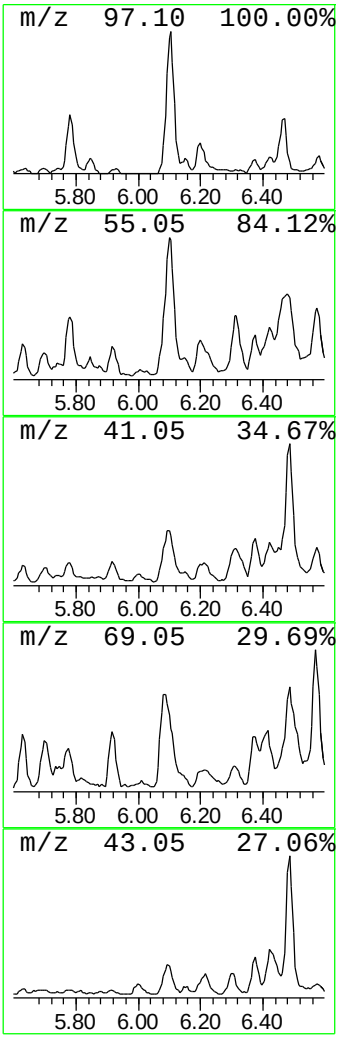
**********

Peak Number 2 (DEL) Alkane: Cyclic6.10 Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.10 | 7.90 ng/ul | 310577 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 87 |
| 2 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 83 |
| 3 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-77-7 | 74 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 72 |
| 5 | 2-Hexene, 3,4,4-trimethyl- | 126 | C9H18 | 053941-19-8 | 72 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

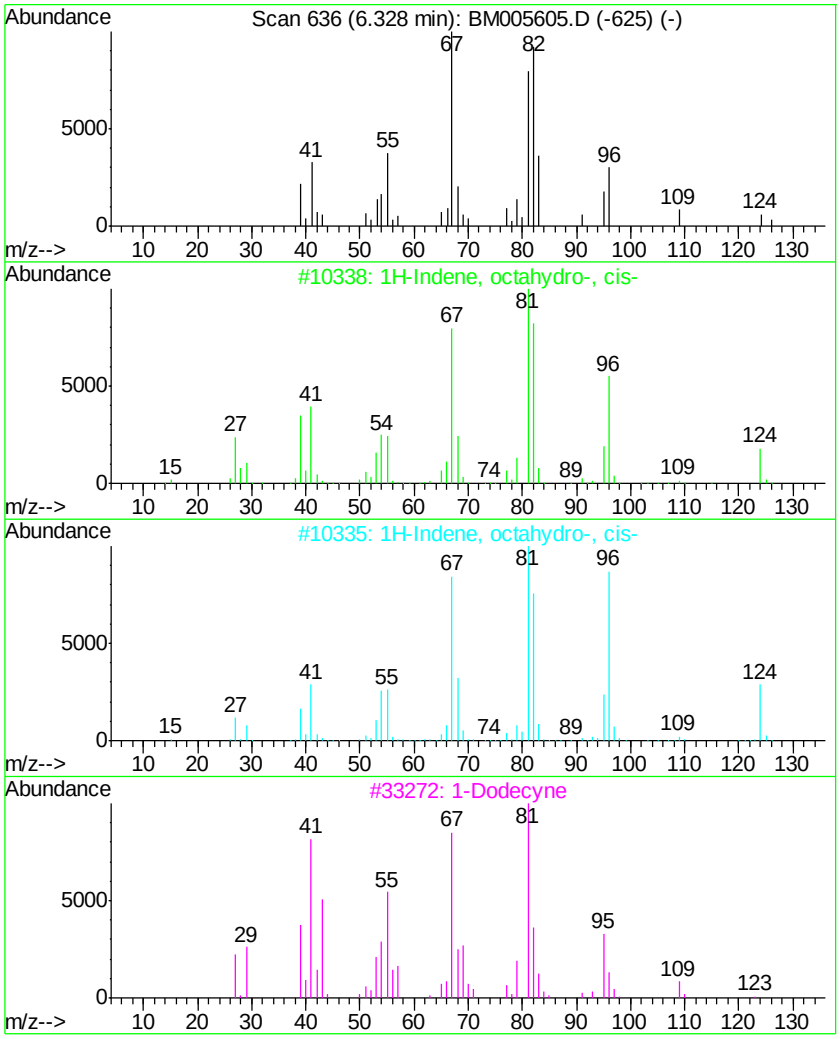
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

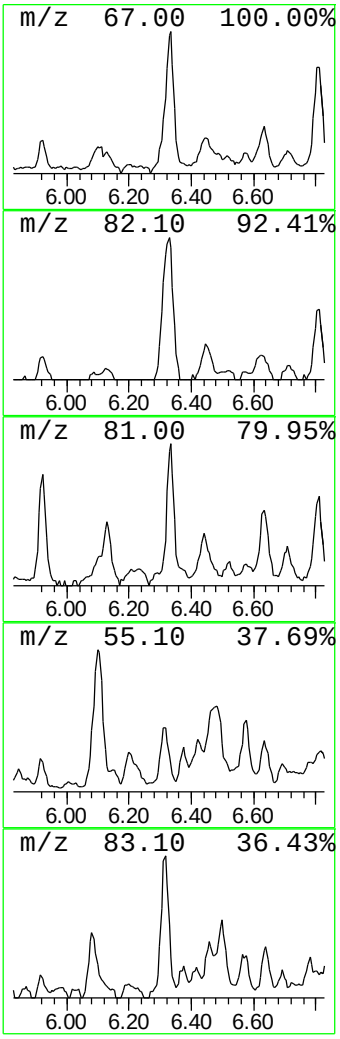
**********

Peak Number 3 (DEL) Alkane: Branched6.33 Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.33 | 4.97 ng/ul | 195545 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 50 |
| 2 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 50 |
| 3 | 1-Dodecyne | 166 | C12H22 | 000765-03-7 | 43 |
| 4 | 1,3-Pentadiene, 3-methyl-, (Z)- | 82 | C6H10 | 002787-45-3 | 43 |
| 5 | 2,4-Hexadiene, (E,Z)- | 82 | C6H10 | 005194-50-3 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

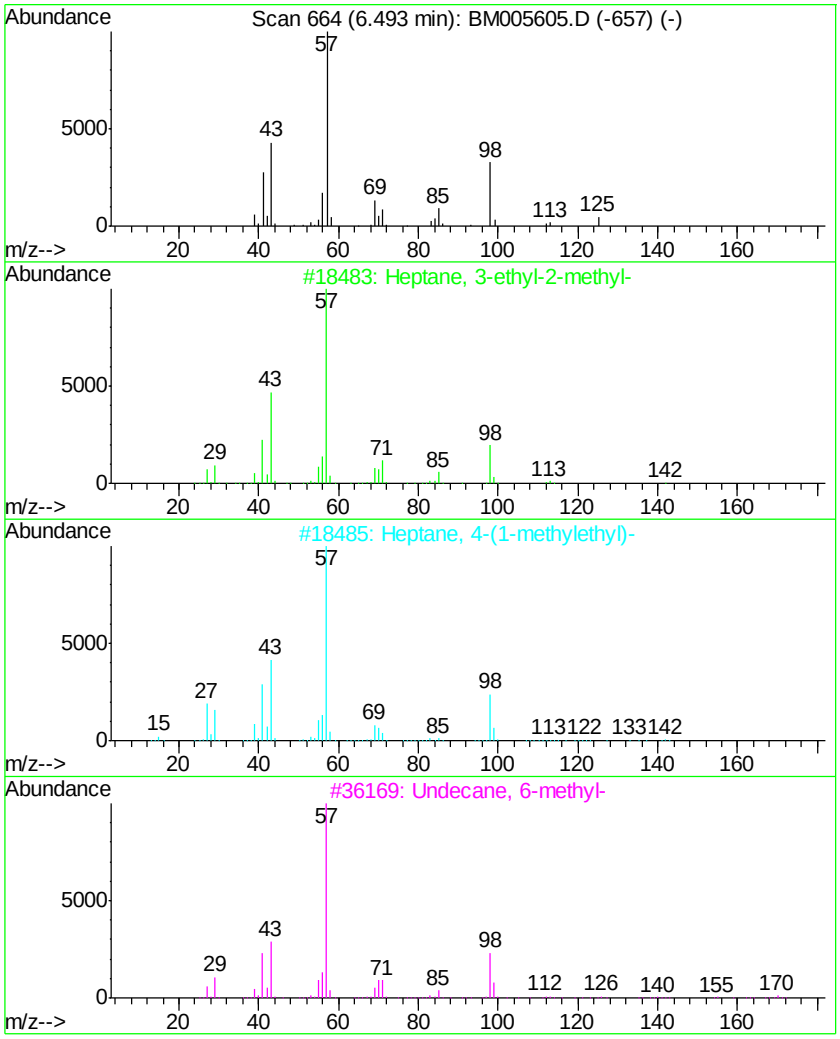
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

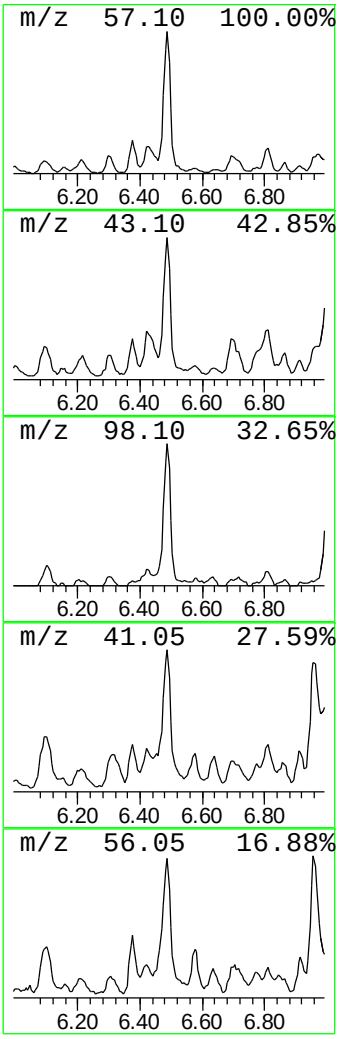
**********

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 9.78 ng/ul | 384641 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 83 |
| 2 | Heptane, 4-(1-methylethyl)- | 142 | C10H22 | 052896-87-4 | 59 |
| 3 | Undecane, 6-methyl- | 170 | C12H26 | 017302-33-9 | 59 |
| 4 | Hexane, 3-ethyl-2,5-dimethyl- | 142 | C10H22 | 052897-04-8 | 59 |
| 5 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 50 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

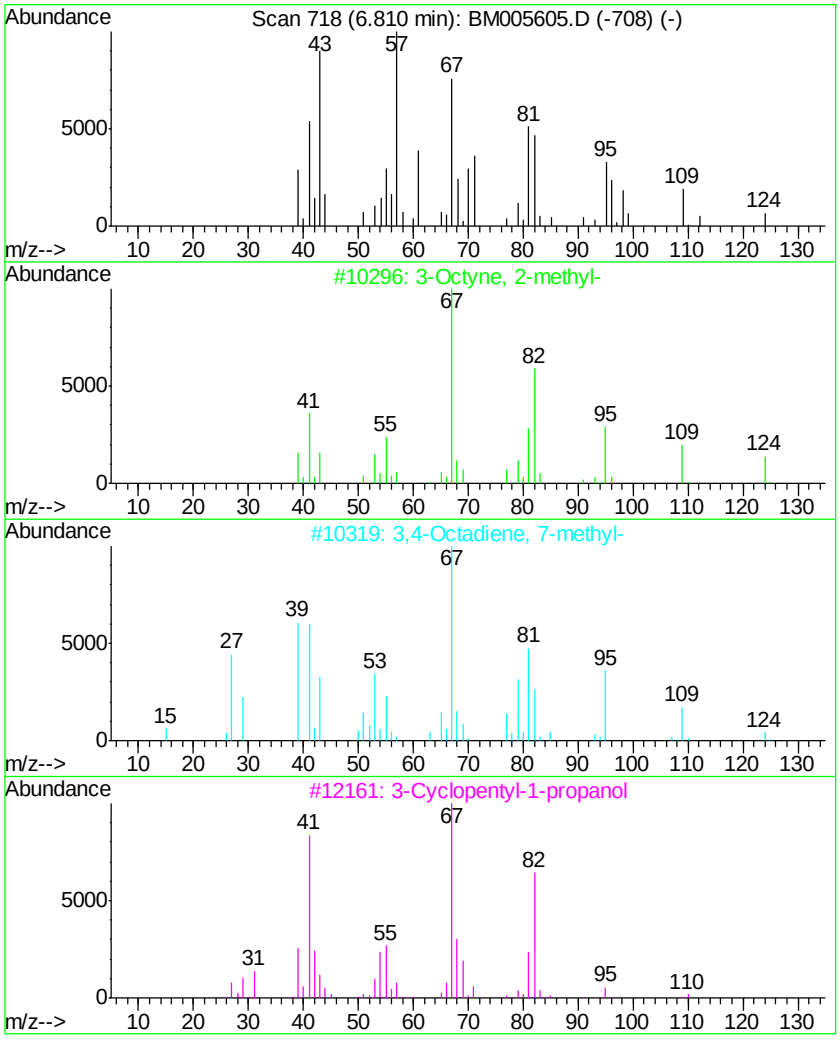
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

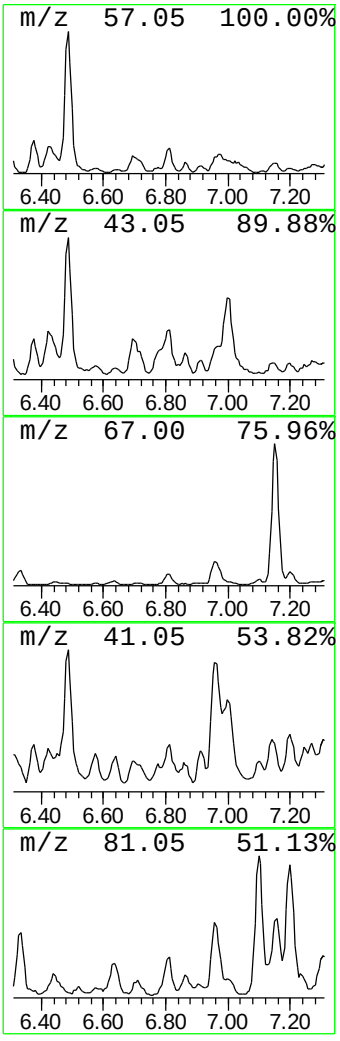
**********

Peak Number 5 (DEL) Alkane: Branched6.81 Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.81 | 5.63 ng/ul | 221489 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Octyne, 2-methyl- | 124 | C9H16 | 055402-15-8 | 46 |
| 2 | 3,4-Octadiene, 7-methyl- | 124 | C9H16 | 037050-05-8 | 43 |
| 3 | 3-Cyclopentyl-1-propanol | 128 | C8H16O | 000767-05-5 | 38 |
| 4 | 3-Cyclopentyl-1-propanol | 128 | C8H16O | 000767-05-5 | 38 |
| 5 | 3,4-Decadiene | 138 | C10H18 | 037050-04-7 | 35 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

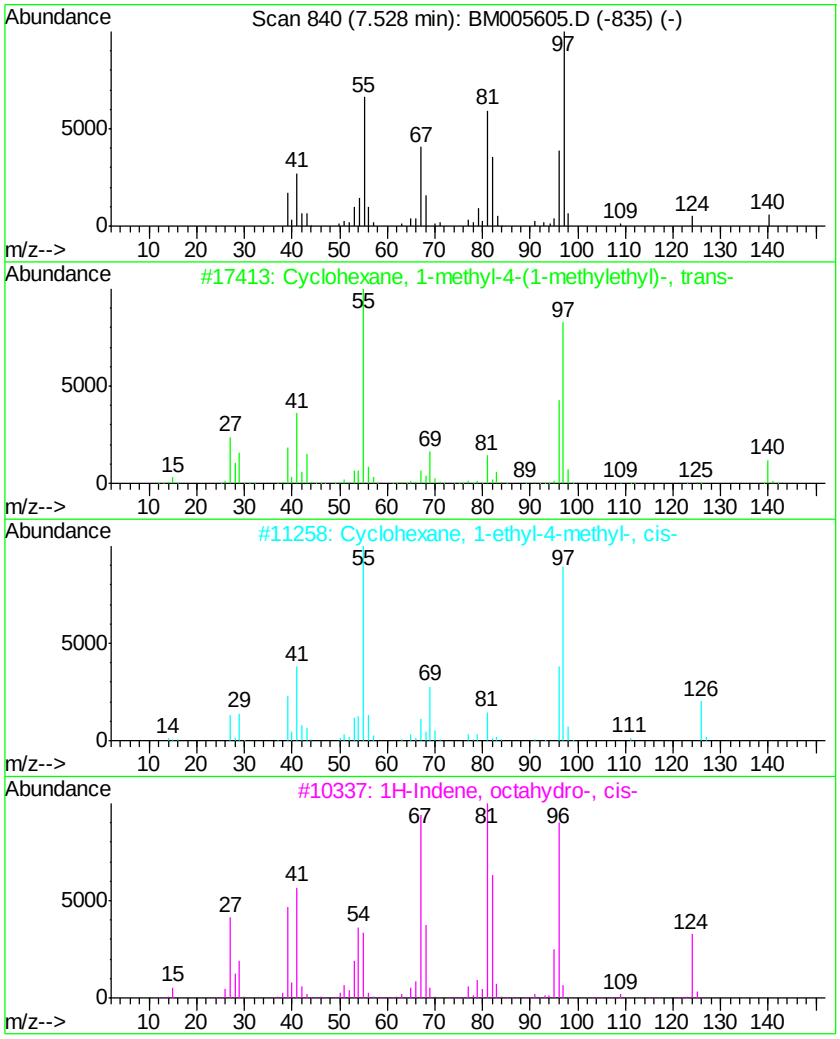
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

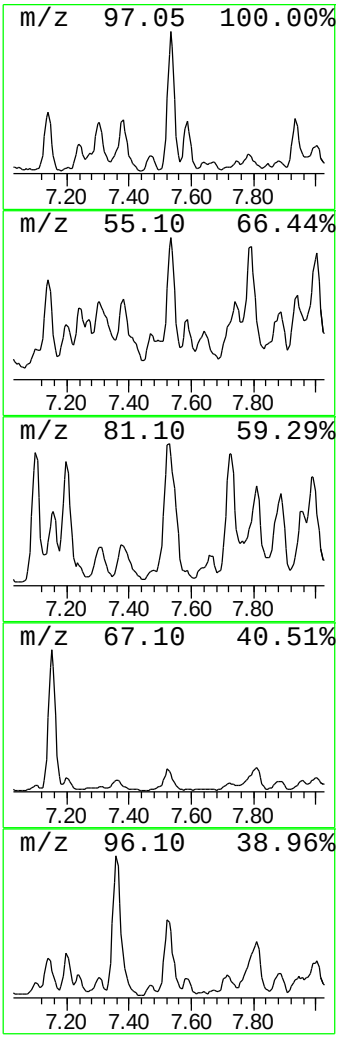
**********

Peak Number 6 (DEL) Alkane: Cyclic7.53 Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.53 | 8.64 ng/ul | 339632 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 001678-82-6 | 50 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 50 |
| 3 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 49 |
| 4 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 45 |
| 5 | 2-Acetyl-6-methyl-2,3-dihydropyran | 140 | C8H12O2 | 028450-02-4 | 43 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

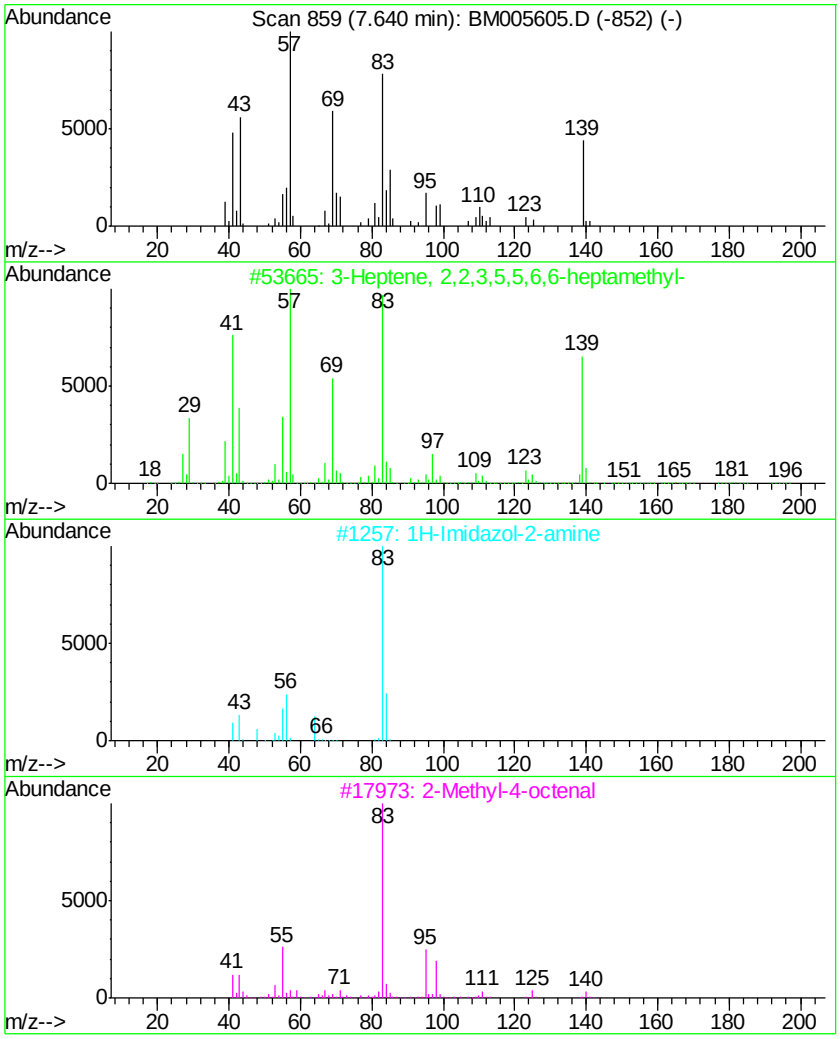
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

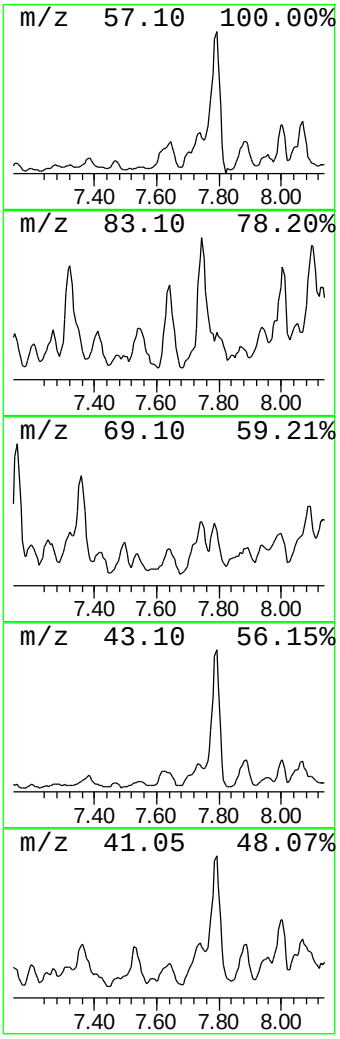
**********

Peak Number 7 (DEL) Alkane: Cyclic7.64 Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.64 | 5.22 ng/ul | 205433 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Heptene, 2,2,3,5,5,6,6-heptame... | 196 | C14H28 | 054845-26-0 | 50 |
| 2 | 1H-Imidazol-2-amine | 83 | C3H5N3 | 007720-39-0 | 35 |
| 3 | 2-Methyl-4-octenal | 140 | C9H16O | 030390-58-0 | 35 |
| 4 | (Trimethylsilyl)acetylene | 98 | C5H10Si | 001066-54-2 | 35 |
| 5 | 2,4,6-Trimethyl-3-heptene | 140 | C10H20 | 1000113-56-9 | 30 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

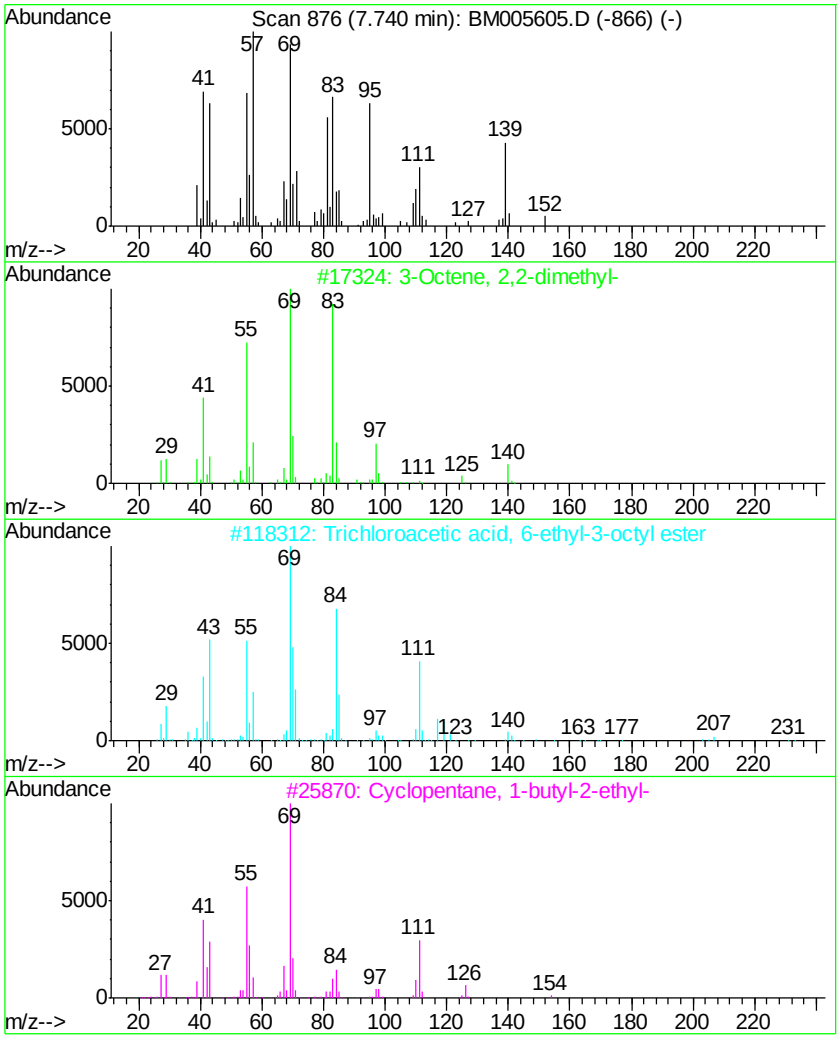
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

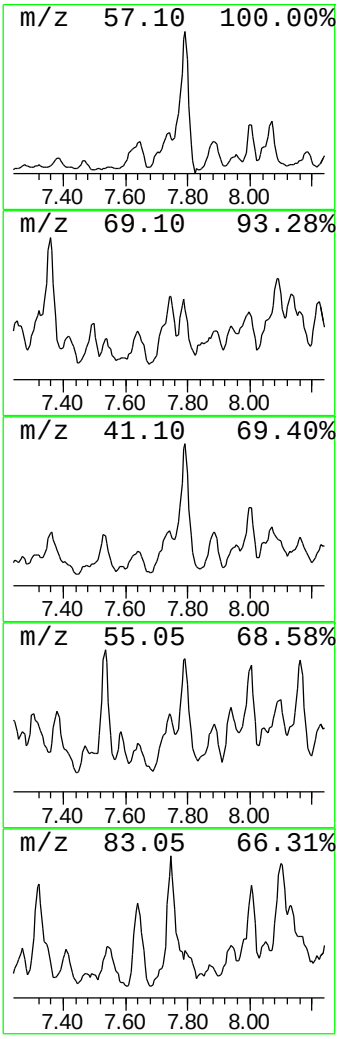
**********

Peak Number 8 (DEL) Alkane: Cyclic7.74 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.74 | 11.76 ng/ul | 462530 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Octene, 2,2-dimethyl- | 140 | C10H20 | 086869-76-3 | 38 |
| 2 | Trichloroacetic acid, 6-ethyl-3-... | 302 | C12H21Cl3O2 | 1000282-57-4 | 35 |
| 3 | Cyclopentane, 1-butyl-2-ethyl- | 154 | C11H22 | 072993-32-9 | 27 |
| 4 | Cyclohexane, 1,1,2-trimethyl- | 126 | C9H18 | 007094-26-0 | 27 |
| 5 | Cyclopropane, 1,1-dimethyl-2-pen... | 140 | C10H20 | 062167-97-9 | 25 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

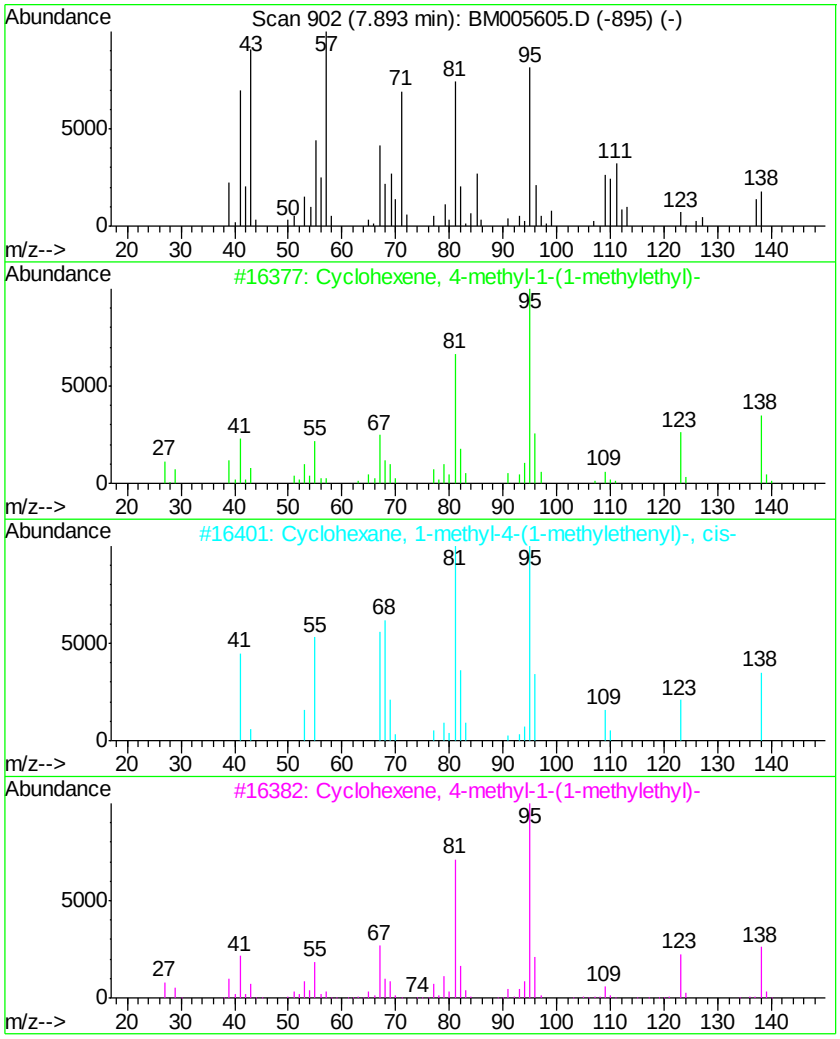
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

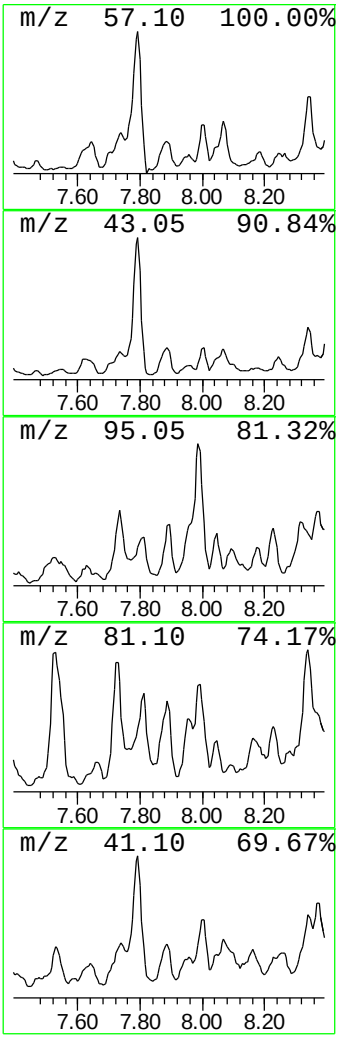
**********

Peak Number 9 (DEL) Alkane: Branched7.89 Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.89 | 7.25 ng/ul | 285285 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 4-methyl-1-(1-methy... | 138 | C10H18 | 000500-00-5 | 55 |
| 2 | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18 | 001879-07-8 | 46 |
| 3 | Cyclohexene, 4-methyl-1-(1-methy... | 138 | C10H18 | 000500-00-5 | 43 |
| 4 | Spiro[3.5]nonan-1-one | 138 | C9H14O | 029800-45-1 | 43 |
| 5 | Cyclohexane, ethylidene- | 110 | C8H14 | 001003-64-1 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

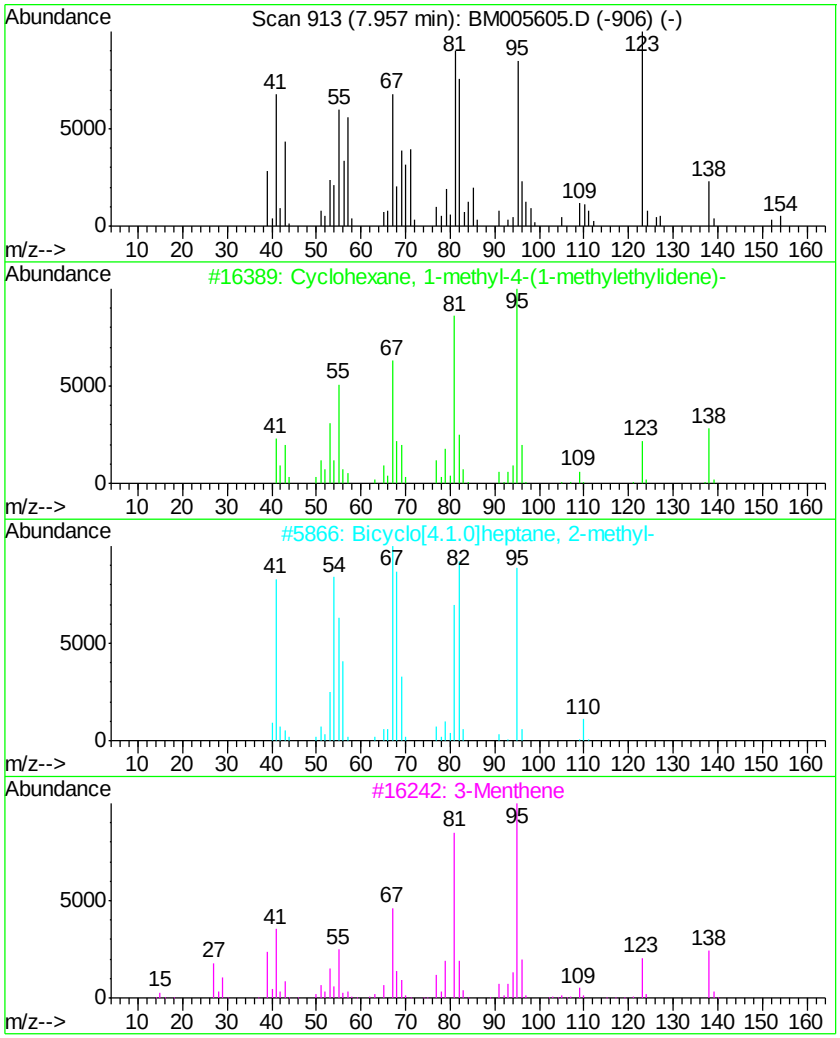
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

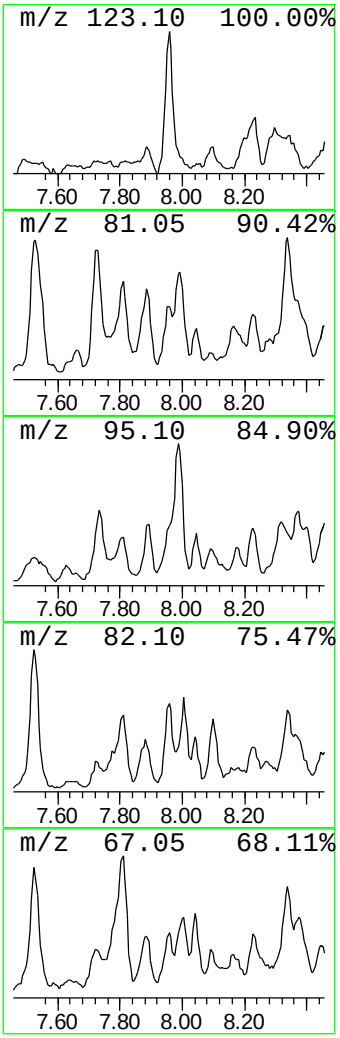
**********

Peak Number 10 (DEL) Alkane: Branched7.96 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.96 | 6.19 ng/ul | 243574 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18 | 001124-27-2 | 55 |
| 2 | Bicyclo[4.1.0]heptane, 2-methyl- | 110 | C8H14 | 041977-46-2 | 46 |
| 3 | 3-Menthene | 138 | C10H18 | 1000118-83-1 | 46 |
| 4 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 45 |
| 5 | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18 | 001879-07-8 | 43 |



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Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

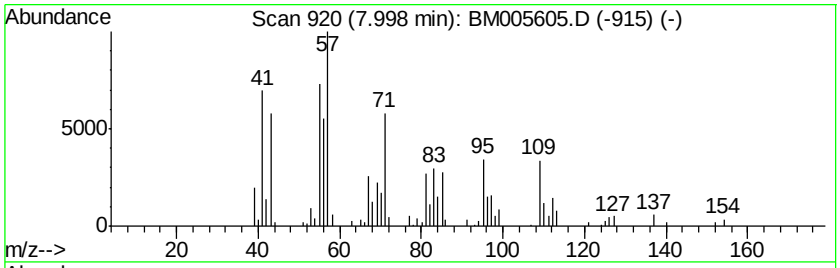
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

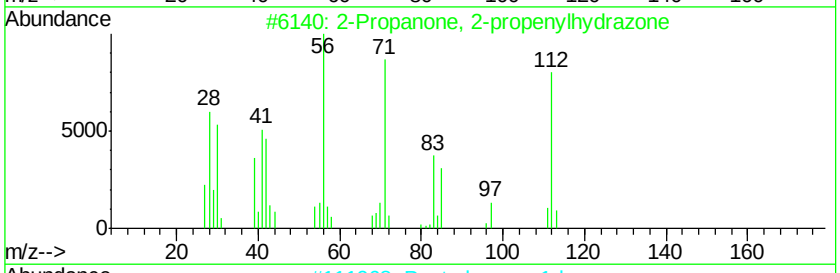
**********

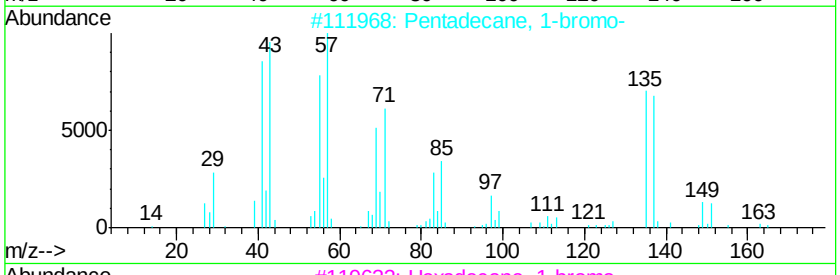
Peak Number 11 unknown-01 Concentration Rank 26

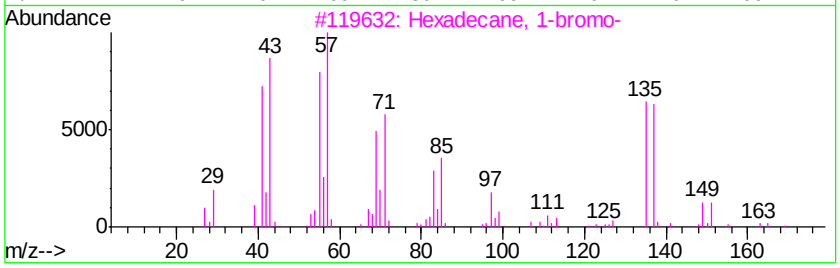
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.00 | 8.40 ng/ul | 330409 | 1,4-Dichlorobenzene-d4 | 7.82 |

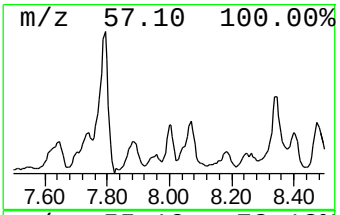
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanone, 2-propenylhydrazone | 112 | C6H12N2 | 019031-79-9 | 49 |
| 2 | Pentadecane, 1-bromo- | 290 | C15H31Br | 000629-72-1 | 43 |
| 3 | Hexadecane, 1-bromo- | 304 | C16H33Br | 000112-82-3 | 43 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 38 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 35 |

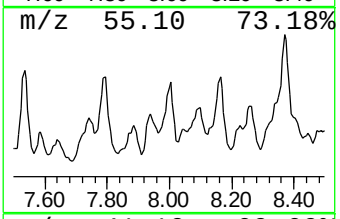


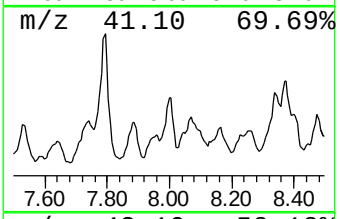



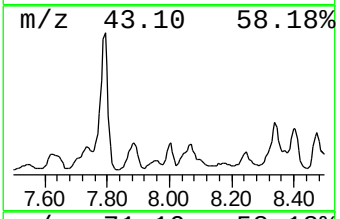



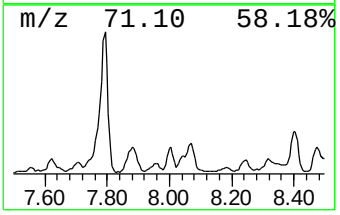



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

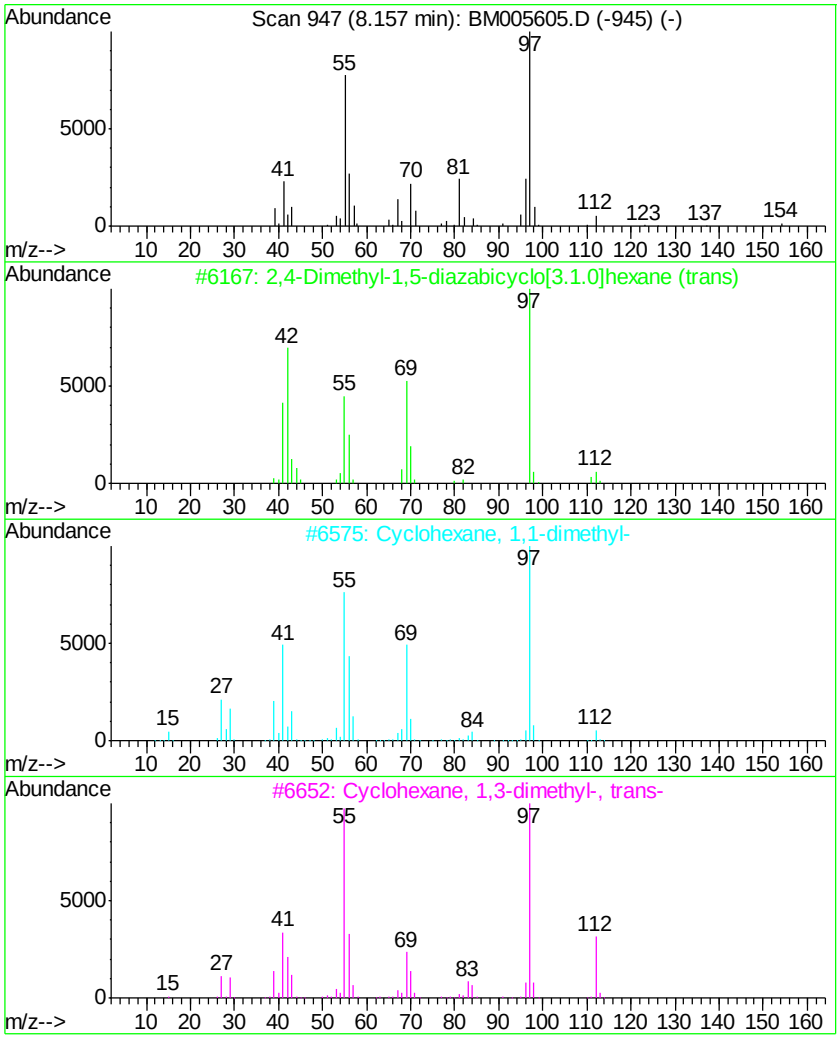
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

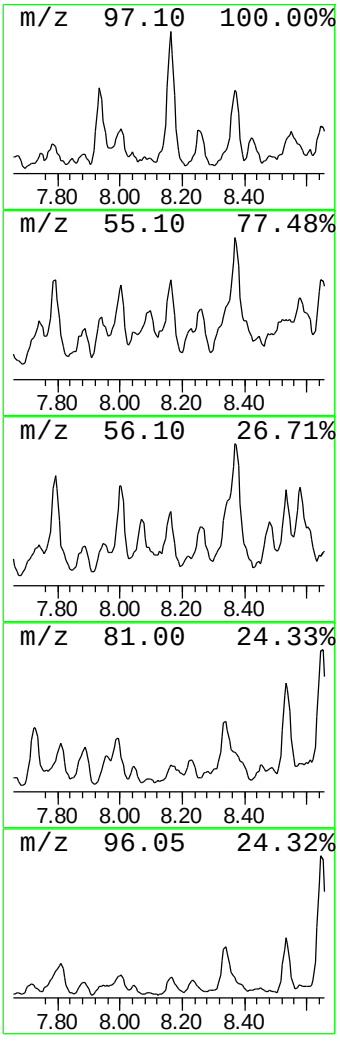
**********

Peak Number 12 2,4-Dimethyl-1,5-diazabicyc... Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.16 | 4.16 ng/ul | 163794 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 1000283-20-9 | 58 |
| 2 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 50 |
| 3 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 50 |
| 4 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 50 |
| 5 | Cyclohexane, 1-bromo-2-methyl- | 176 | C7H13Br | 006294-39-9 | 50 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

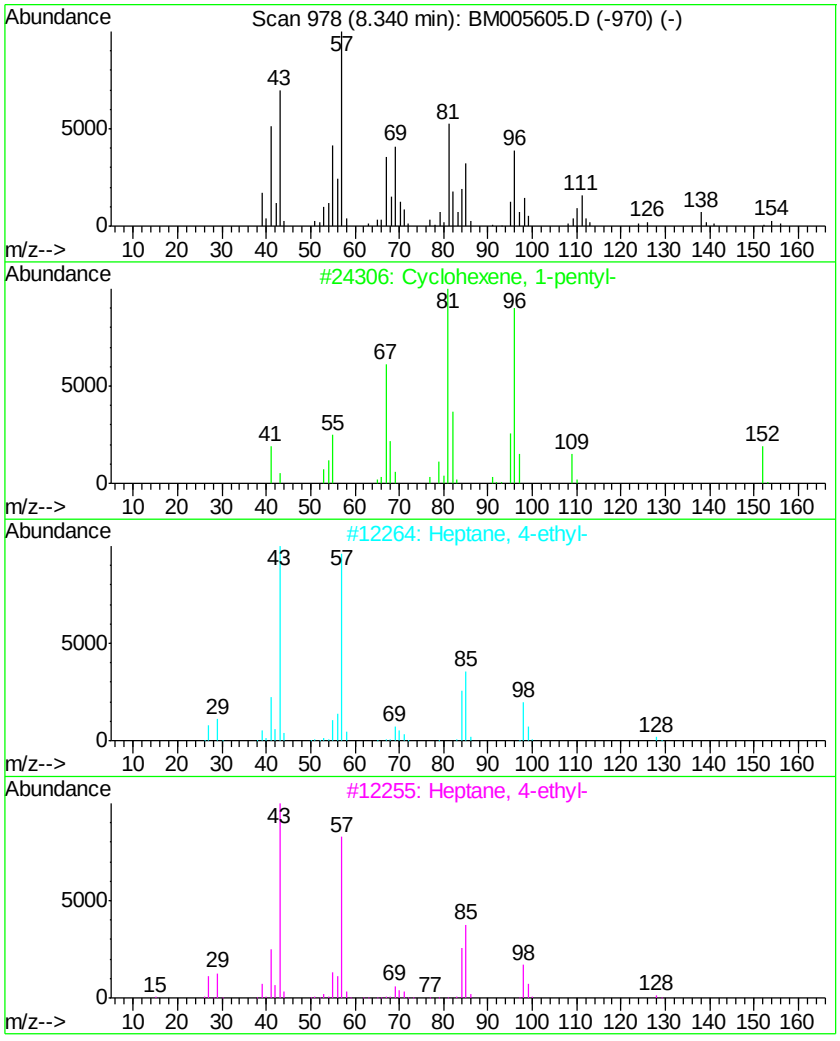
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

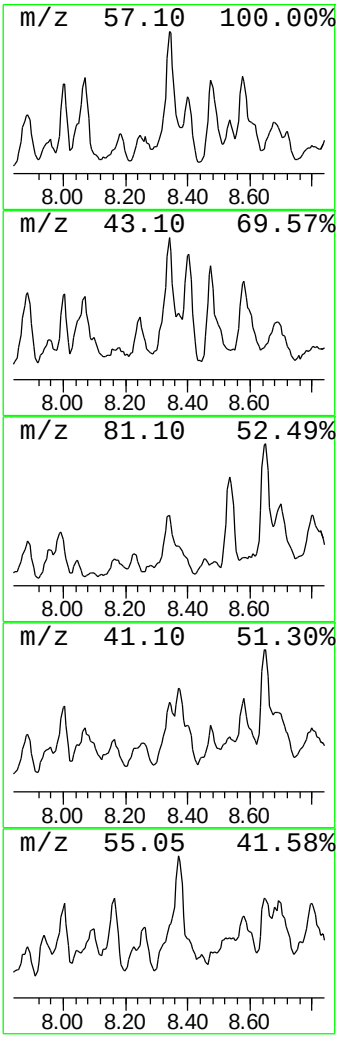
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Branched8.34 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.34 | 12.56 ng/ul | 493996 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1-pentyl- | 152 | C11H20 | 015232-85-6 | 38 |
| 2 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 35 |
| 3 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 27 |
| 4 | Pentalene, octahydro-2,5-dimethyl- | 138 | C10H18 | 028588-55-8 | 25 |
| 5 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 25 |



# Library Search Compound Report

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Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

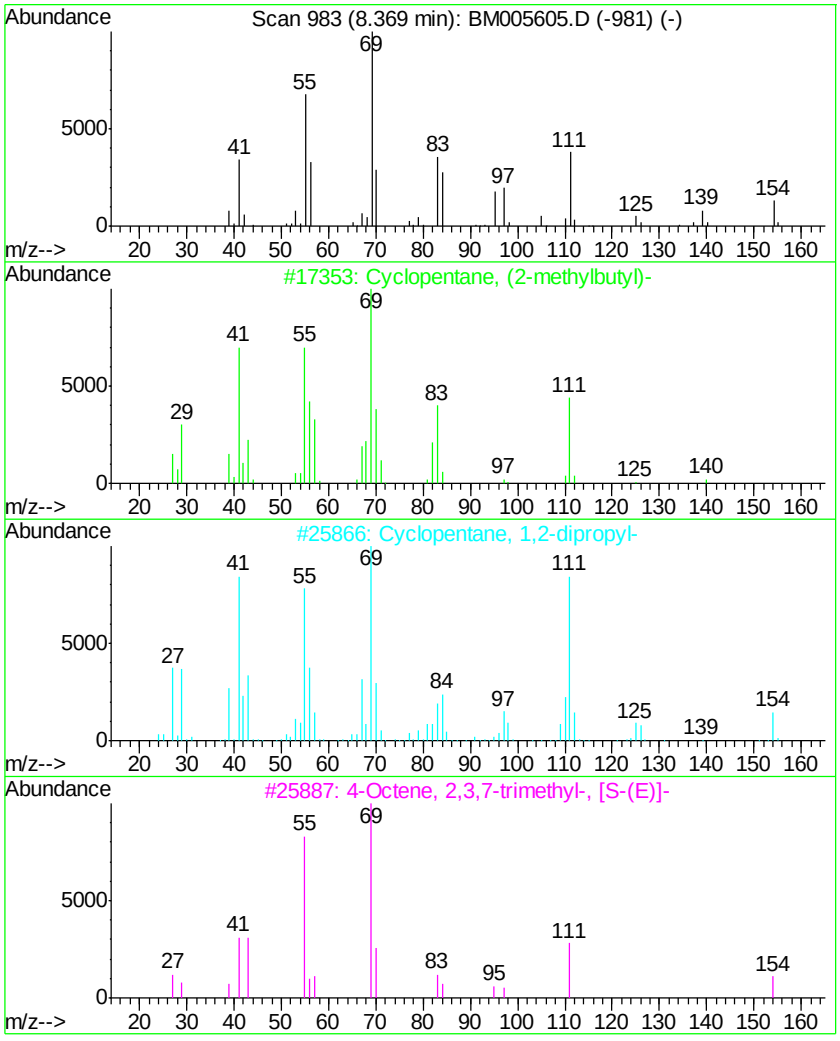
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

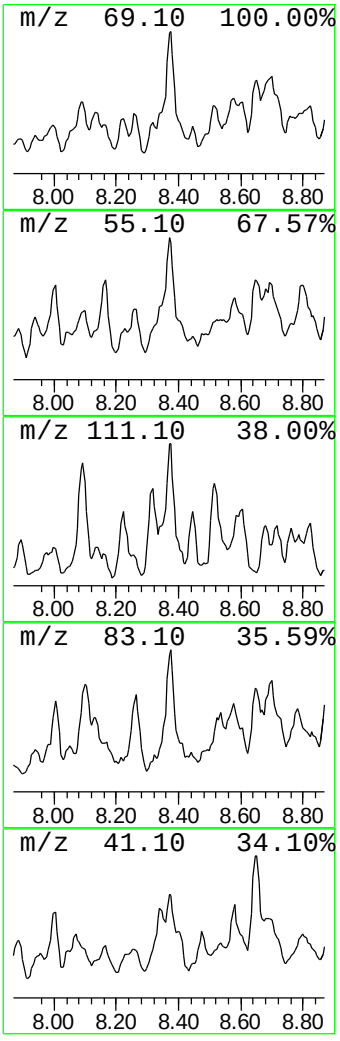
**********

Peak Number 14 (DEL) Alkane: Cyclic8.37 Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.37 | 5.56 ng/ul | 218783 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, (2-methylbutyl)- | 140 | C10H20 | 053366-38-4 | 58 |
| 2 | Cyclopentane, 1,2-dipropyl- | 154 | C11H22 | 091242-57-8 | 58 |
| 3 | 4-Octene, 2,3,7-trimethyl-, [S-(... | 154 | C11H22 | 052763-13-0 | 53 |
| 4 | 4-Octene, 2,3,6-trimethyl- | 154 | C11H22 | 063830-65-9 | 50 |
| 5 | Cyclooctane, butyl- | 168 | C12H24 | 016538-93-5 | 47 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

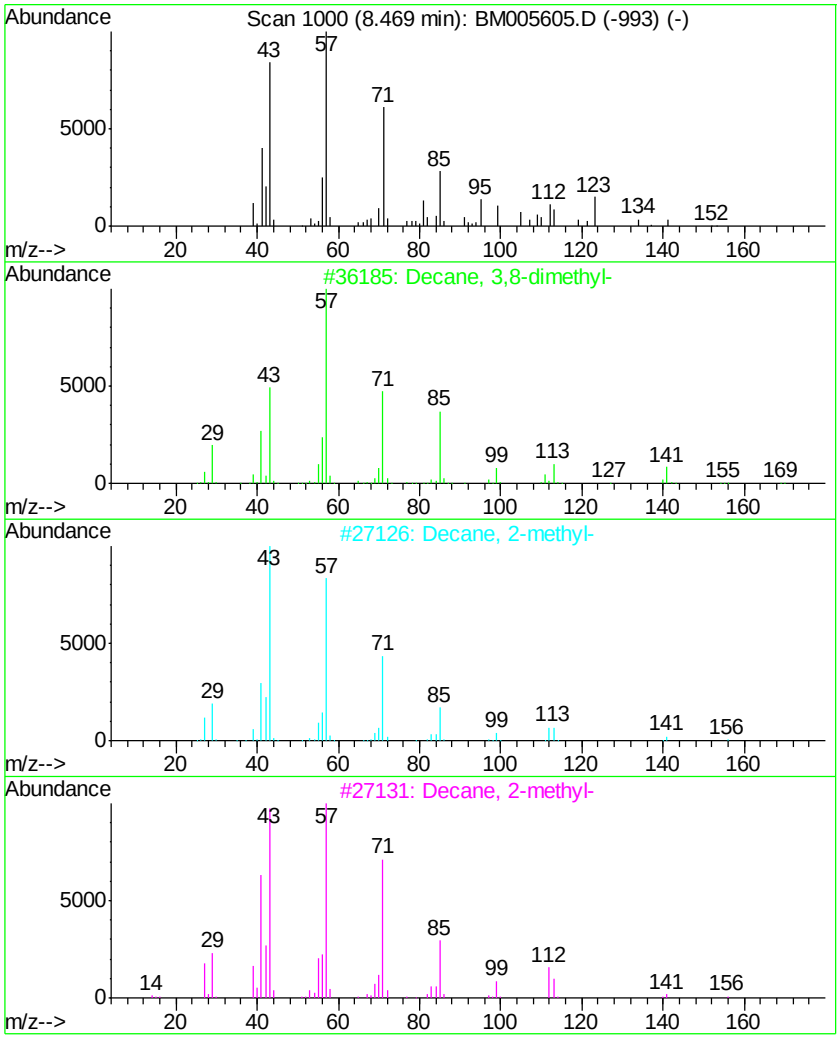
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

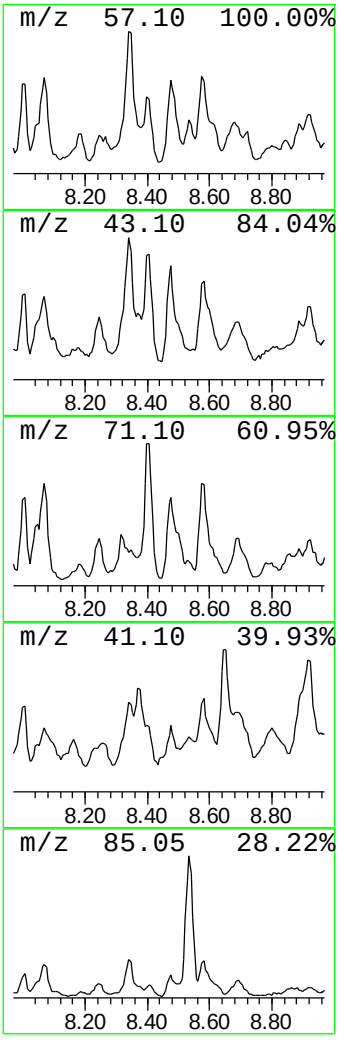
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.47 | 5.86 ng/ul | 230507 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 53 |
| 2 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 53 |
| 3 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 52 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 52 |
| 5 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 50 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

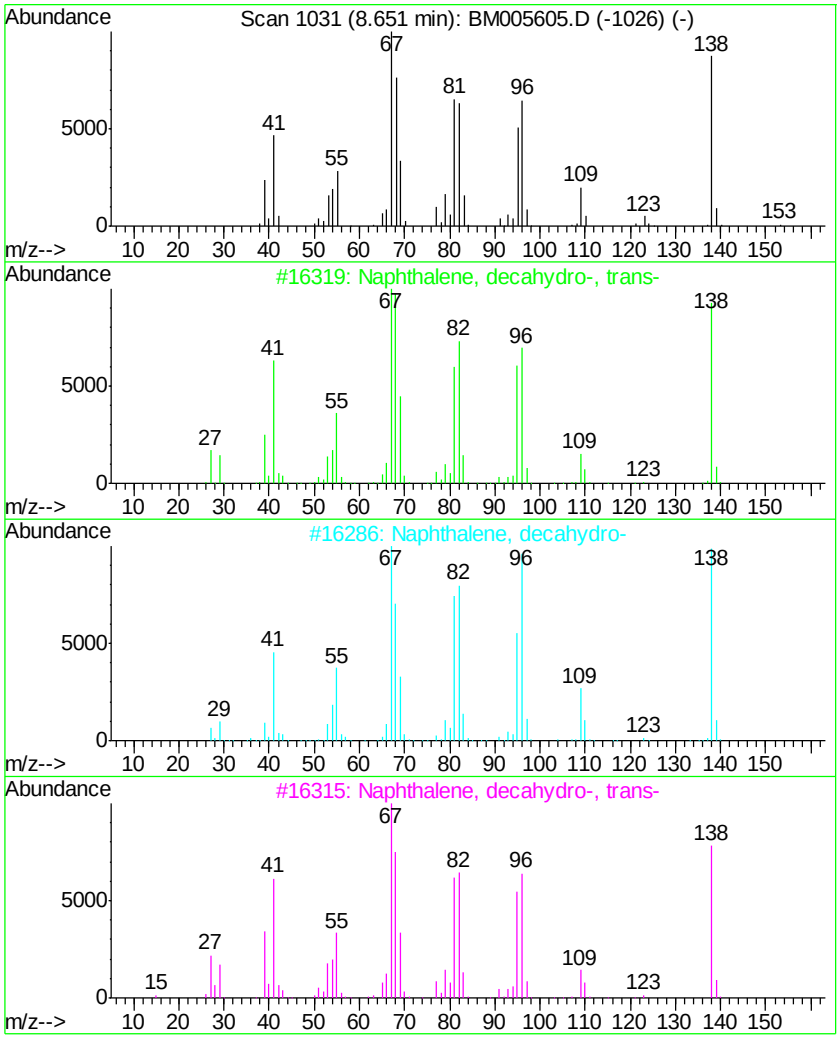
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

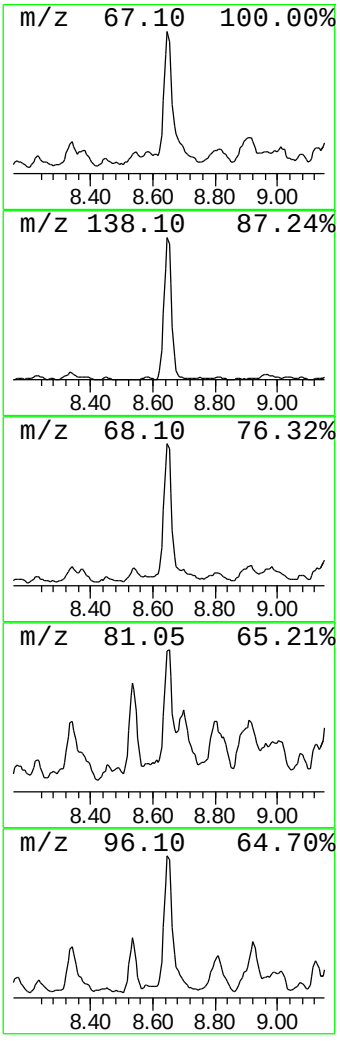
**********

Peak Number 16 (DEL) Alkane: Branched8.65 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.65 | 18.00 ng/ul | 708002 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 95 |
| 2 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 94 |
| 3 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 94 |
| 4 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 93 |
| 5 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 91 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

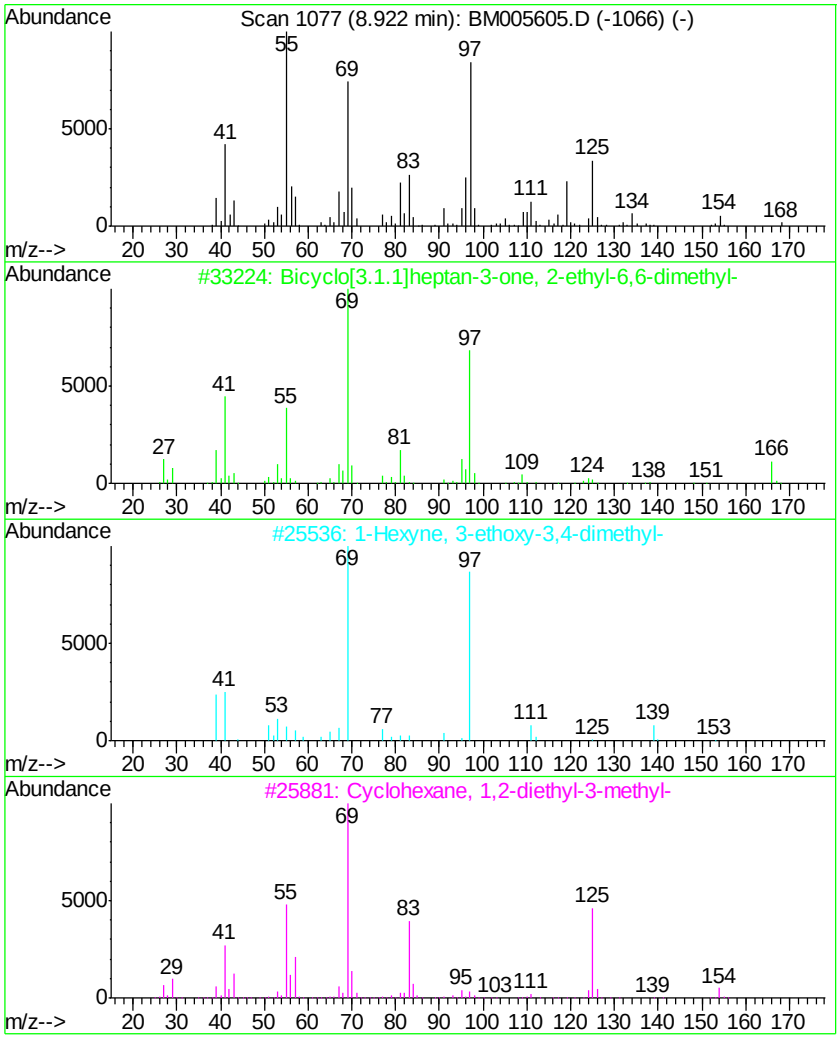
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

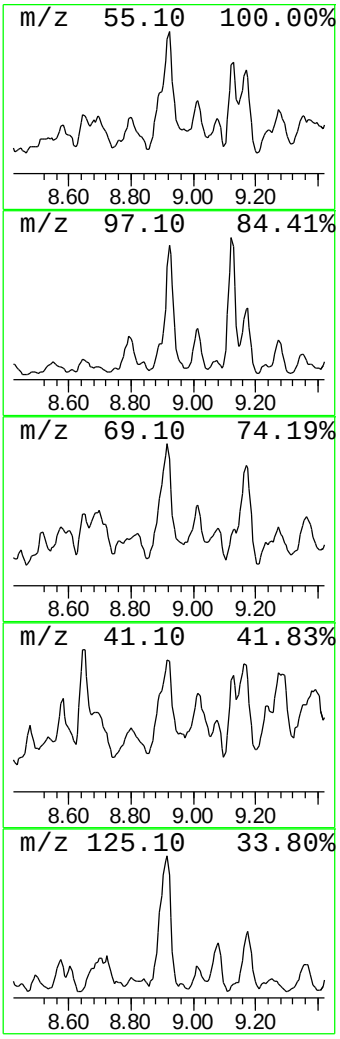
**********

Peak Number 17 unknown-02 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.92 | 29.09 ng/ul | 1143950 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.1.1]heptan-3-one, 2-et... | 166 | C11H18O | 1000163-95-8 | 47 |
| 2 | 1-Hexyne, 3-ethoxy-3,4-dimethyl- | 154 | C10H18O | 054244-91-6 | 43 |
| 3 | Cyclohexane, 1,2-diethyl-3-methyl- | 154 | C11H22 | 061141-80-8 | 43 |
| 4 | 2-Pentene, 3-ethyl-4,4-dimethyl- | 126 | C9H18 | 053907-59-8 | 43 |
| 5 | 6-Methyl-1,5-diazabicyclo[3.1.0]... | 98 | C5H10N2 | 100463-00-1 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

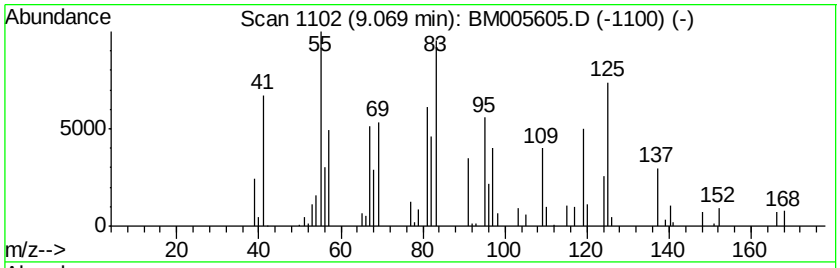
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

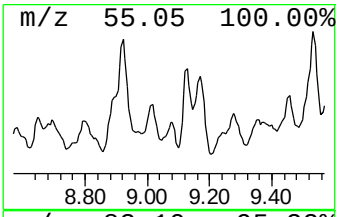
**********

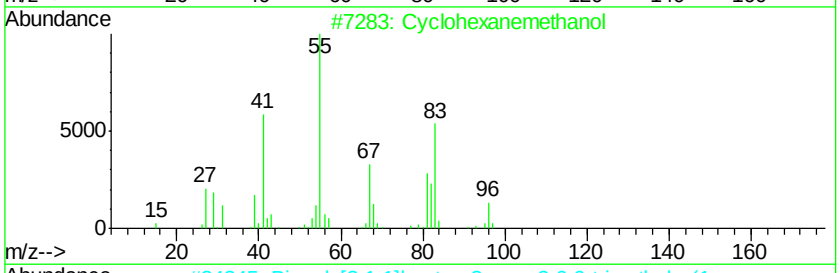
Peak Number 18 unknown-03 Concentration Rank 38

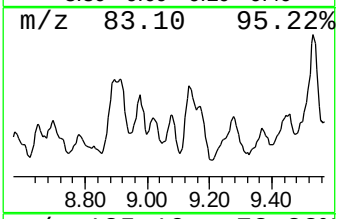
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.07 | 5.40 ng/ul | 212439 | 1,4-Dichlorobenzene-d4 | 7.82 |

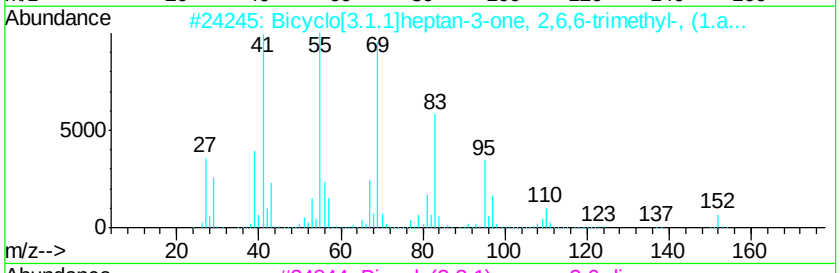
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanemethanol | 114 | C7H14O | 000100-49-2 | 35 |
| 2 | Bicyclo[3.1.1]heptan-3-one, 2,6,... | 152 | C10H16O | 015358-88-0 | 27 |
| 3 | Bicyclo(3.3.1)nonane-2,6-dione | 152 | C9H12O2 | 016473-11-3 | 27 |
| 4 | 3-Nonen-2-one | 140 | C9H16O | 014309-57-0 | 18 |
| 5 | Ethanol, 2-bromo- | 124 | C2H5BrO | 000540-51-2 | 18 |

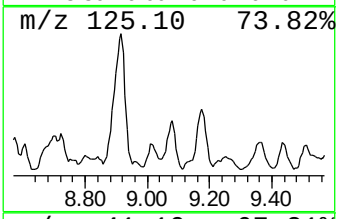


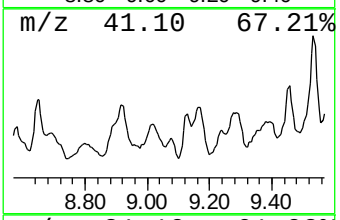



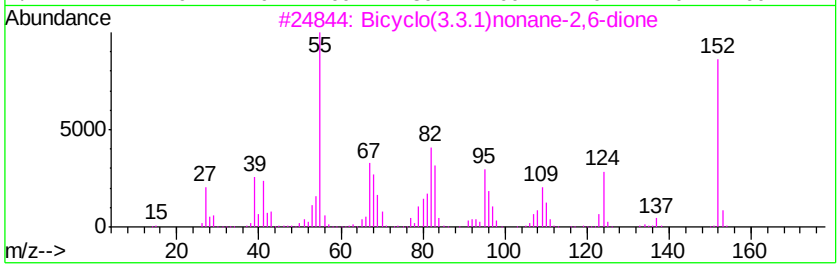



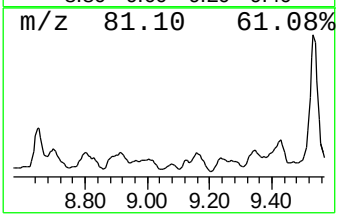



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

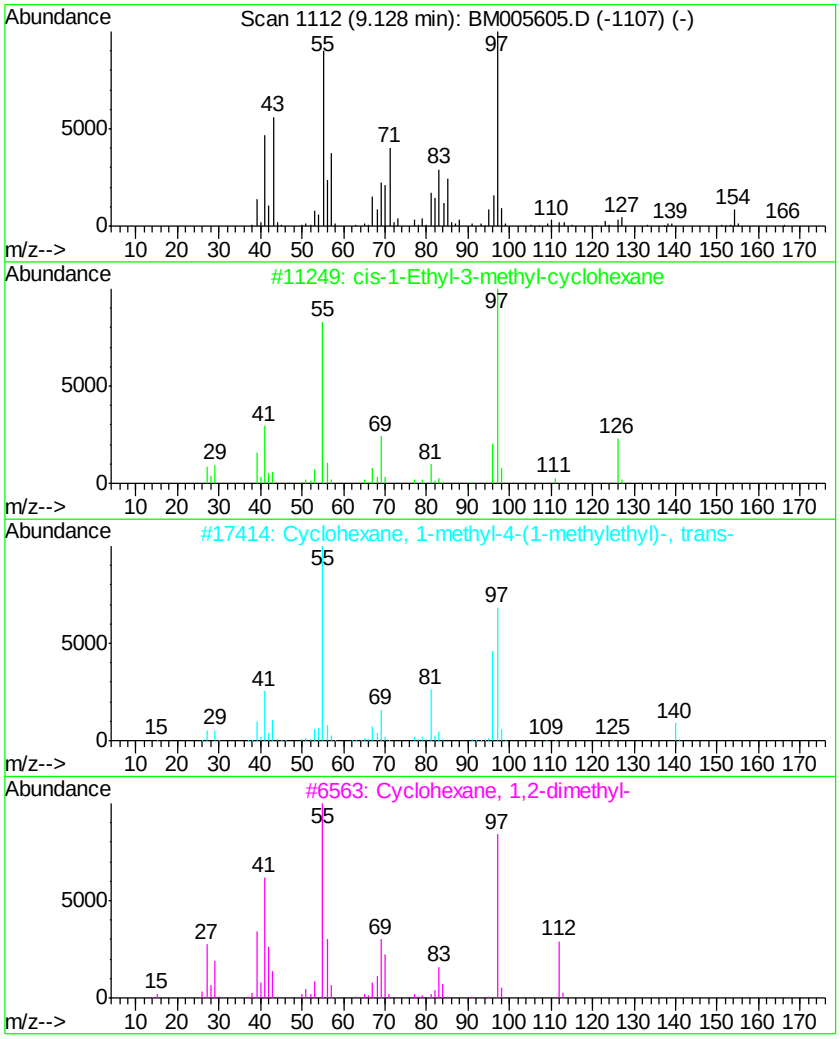
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

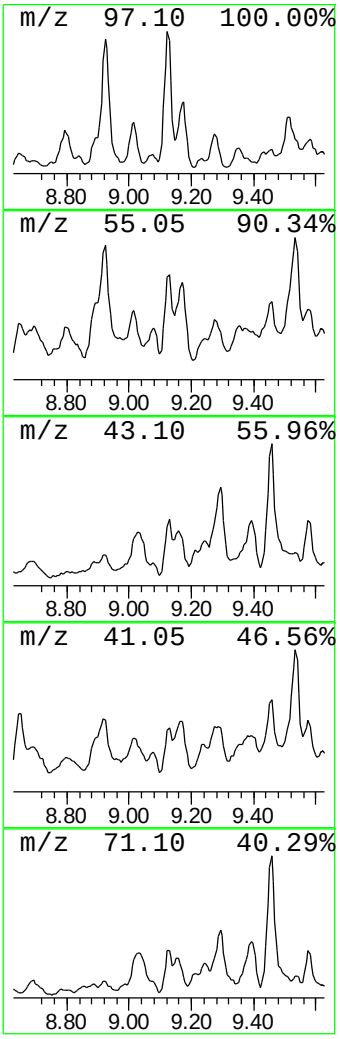
**********

Peak Number 19 (DEL) Alkane: Cyclic9.13 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.13 | 12.04 ng/ul | 473560 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 38 |
| 2 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 001678-82-6 | 35 |
| 3 | Cyclohexane, 1,2-dimethyl- | 112 | C8H16 | 000583-57-3 | 35 |
| 4 | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20 | 000099-82-1 | 35 |
| 5 | 1-Heptanol, 2-propyl- | 158 | C10H22O | 010042-59-8 | 35 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

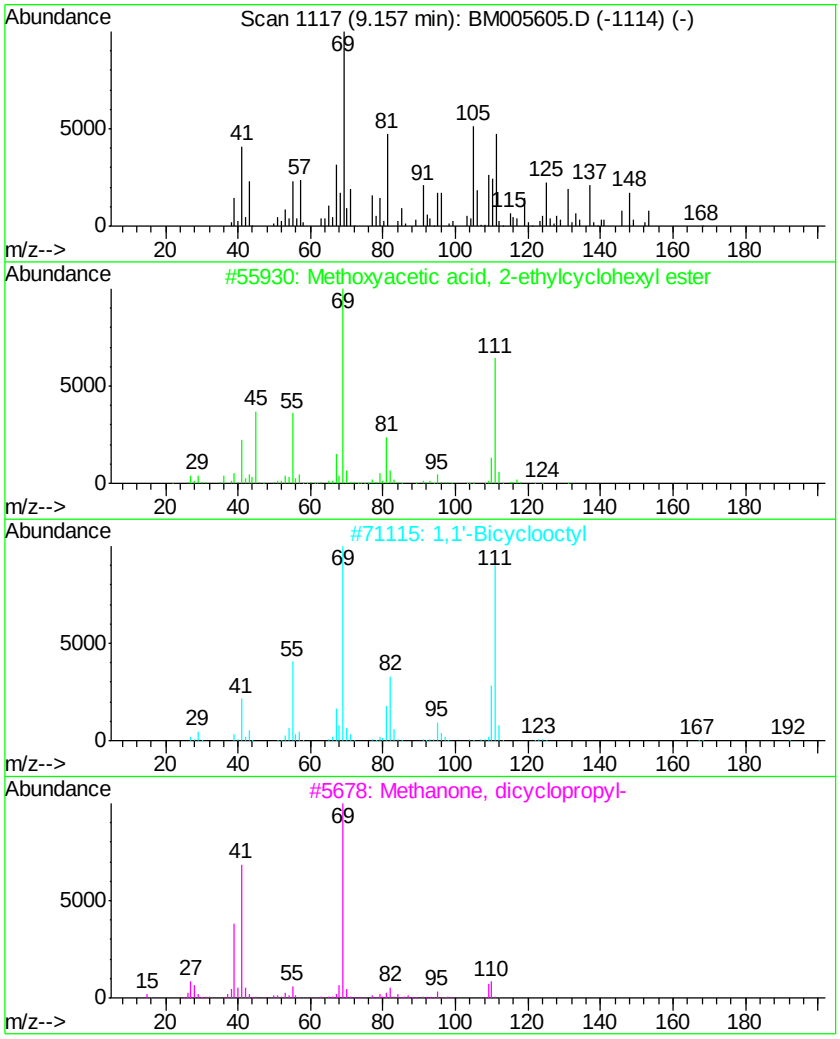
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

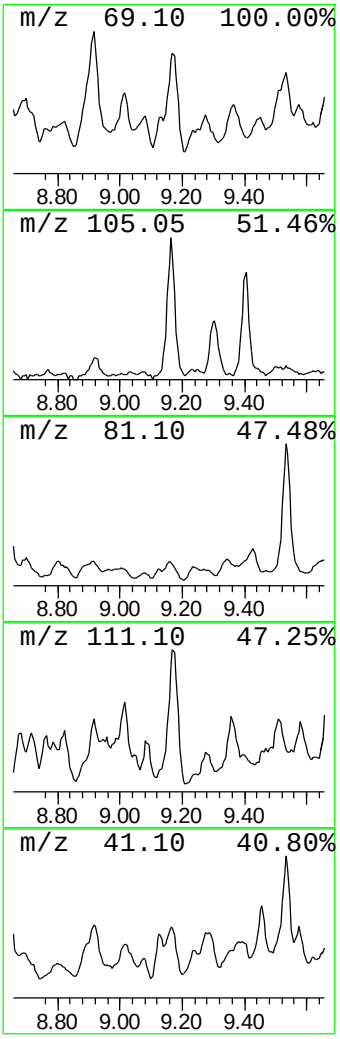
**********

Peak Number 20 unknown-04 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.16 | 20.24 ng/ul | 796103 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methoxyacetic acid, 2-ethylcyclo... | 200 | C11H20O3 | 1000282-69-7 | 38 |
| 2 | 1,1'-Bicyclooctyl | 222 | C16H30 | 006708-17-4 | 38 |
| 3 | Methanone, dicyclopropyl- | 110 | C7H10O | 001121-37-5 | 35 |
| 4 | Cyclohexane, (1,2-dimethylbutyl)- | 168 | C12H24 | 061142-37-8 | 28 |
| 5 | 4-Nonene, 2,3,3-trimethyl-, (E)- | 168 | C12H24 | 063830-67-1 | 27 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

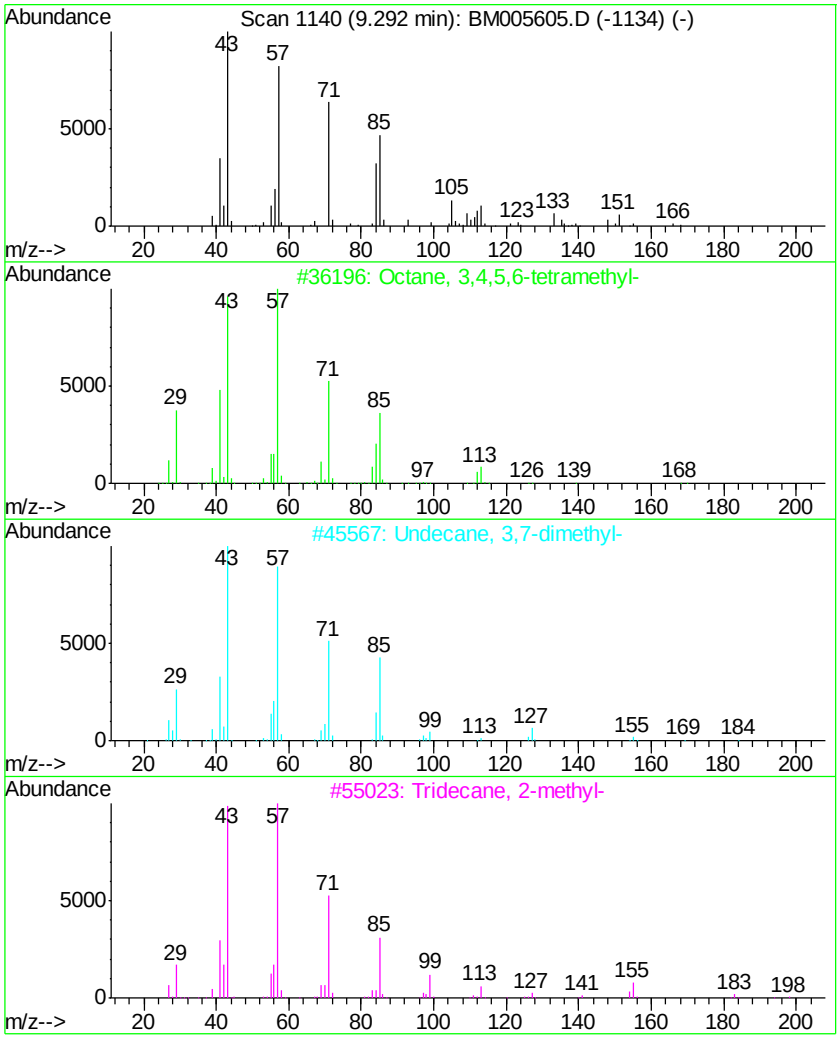
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

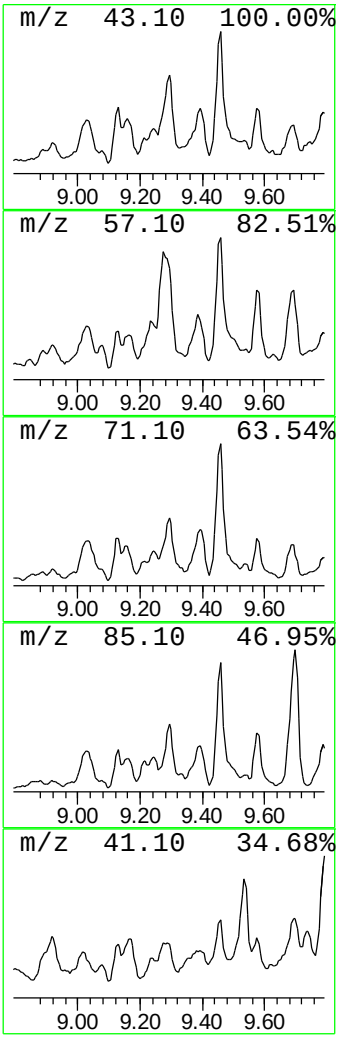
**********

Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.29 | 3.03 ng/ul | 493516 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3,4,5,6-tetramethyl- | 170 | C12H26 | 062185-21-1 | 72 |
| 2 | Undecane, 3,7-dimethyl- | 184 | C13H28 | 017301-29-0 | 53 |
| 3 | Tridecane, 2-methyl- | 198 | C14H30 | 001560-96-9 | 53 |
| 4 | 3-Ethyl-3-methylheptane | 142 | C10H22 | 017302-01-1 | 53 |
| 5 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 53 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

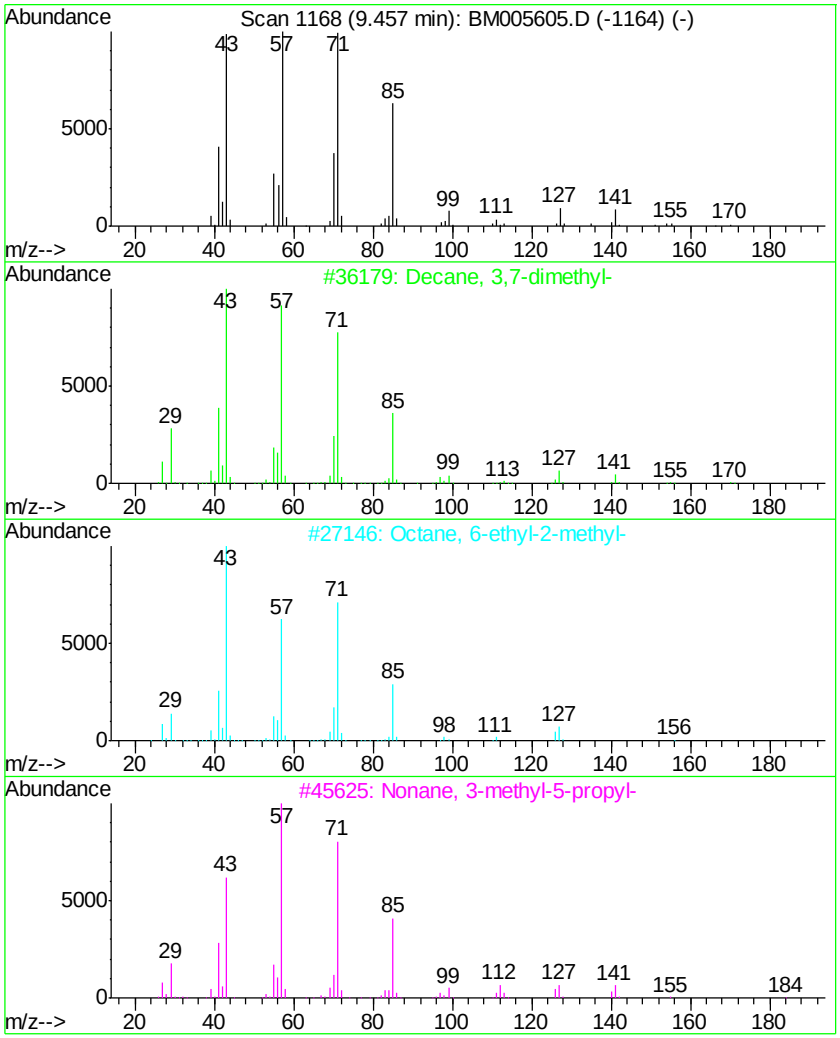
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

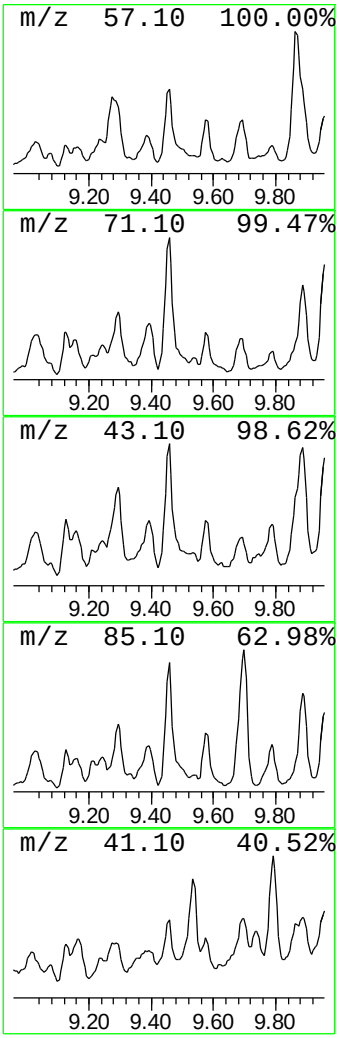
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.46 | 2.04 ng/ul | 332041 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,7-dimethyl- | 170 | C12H26 | 017312-54-8 | 87 |
| 2 | Octane, 6-ethyl-2-methyl- | 156 | C11H24 | 062016-19-7 | 78 |
| 3 | Nonane, 3-methyl-5-propyl- | 184 | C13H28 | 031081-18-2 | 72 |
| 4 | Undecane, 2,8-dimethyl- | 184 | C13H28 | 017301-25-6 | 64 |
| 5 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 59 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

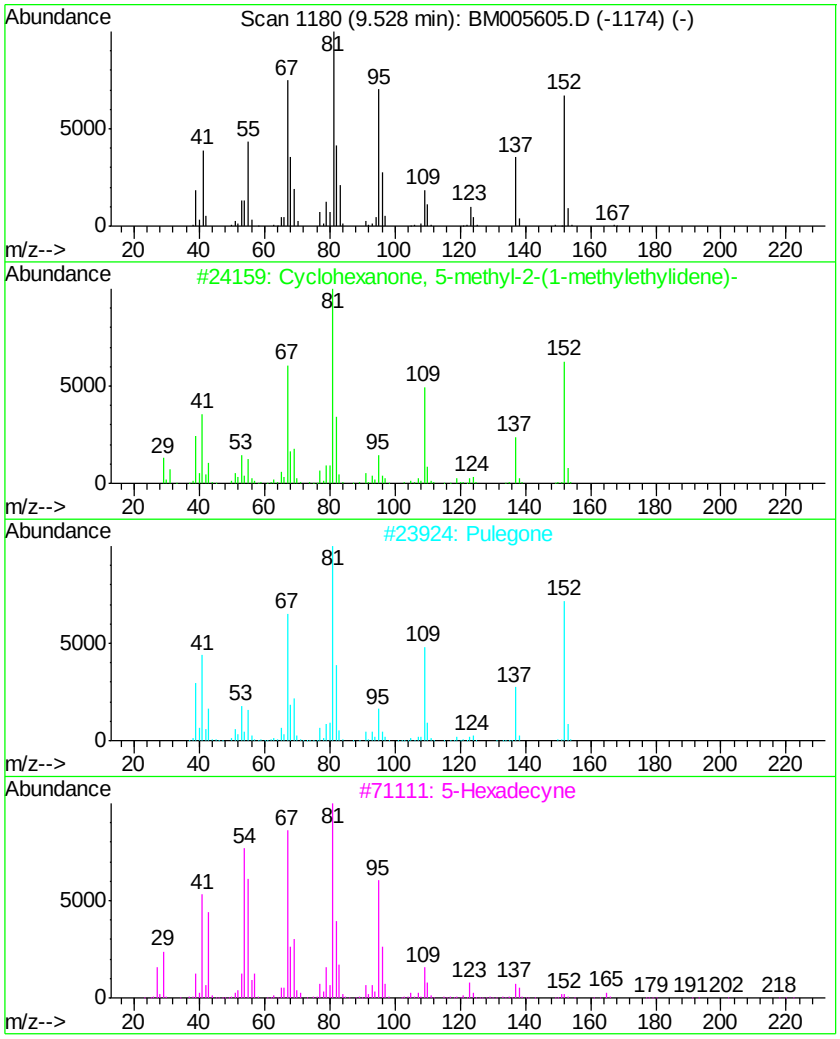
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

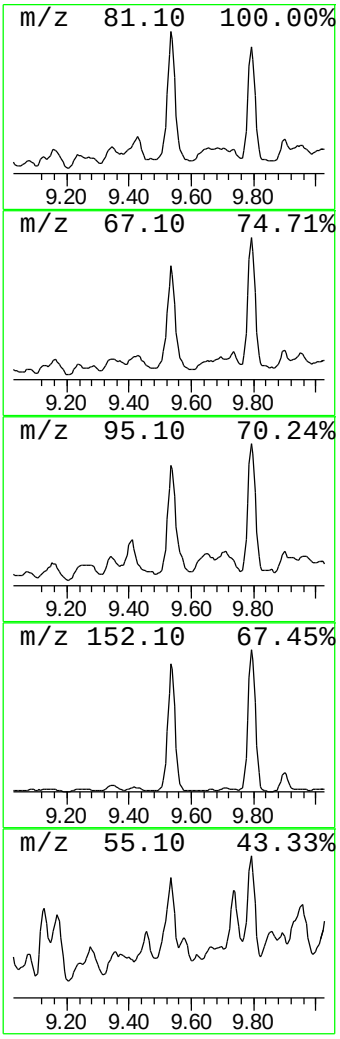
**********

Peak Number 23 Cyclohexanone, 5-methyl-2-(... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.53 | 8.17 ng/ul | 1328770 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6 | 76 |
| 2 | Pulegone | 152 | C10H16O | 000089-82-7 | 76 |
| 3 | 5-Hexadecyne | 222 | C16H30 | 071899-37-1 | 74 |
| 4 | 1-Methyl-2-methylenecyclohexane | 110 | C8H14 | 002808-75-5 | 68 |
| 5 | Cyclohexanone, 2-methyl-5-(1-met... | 152 | C10H16O | 005948-04-9 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

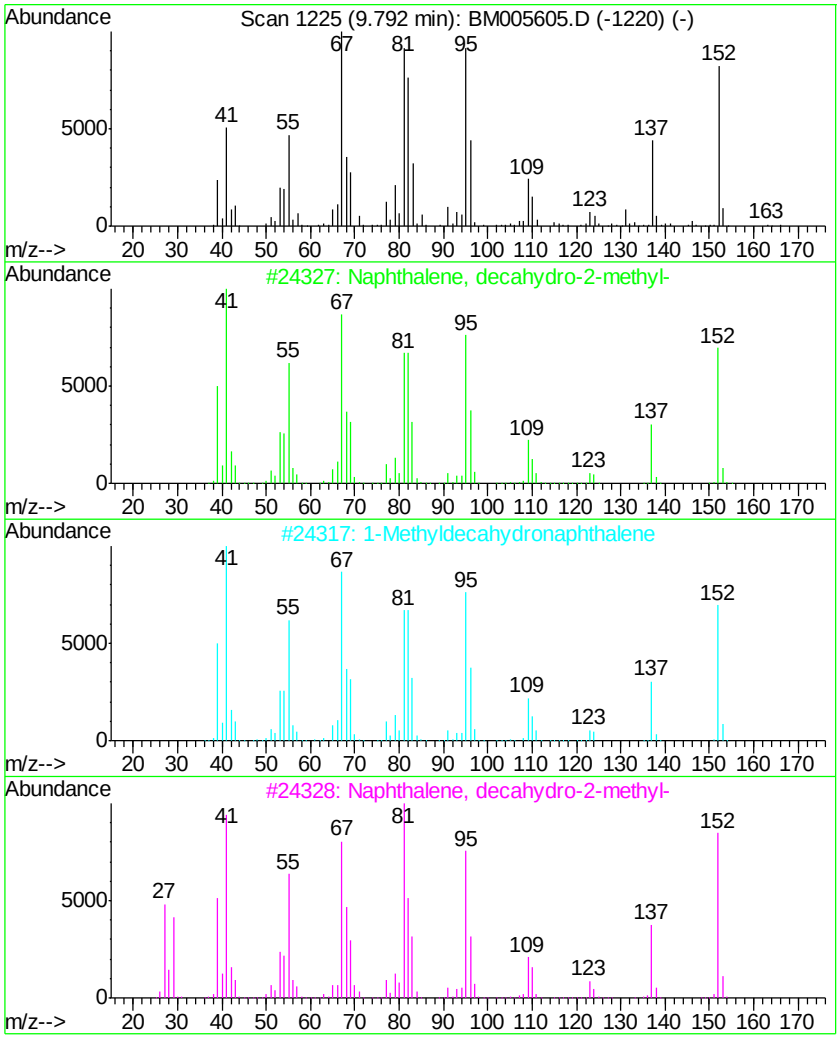
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

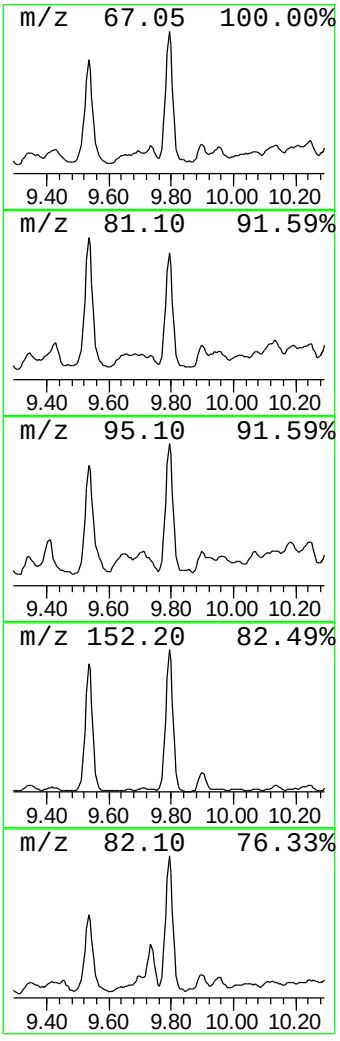
**********

Peak Number 24 (DEL) Alkane: Branched9.79 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.79 | 11.08 ng/ul | 1801810 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 98 |
| 2 | 1-Methyldecahydronaphthalene | 152 | C11H20 | 002958-75-0 | 98 |
| 3 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 81 |
| 4 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 70 |
| 5 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 64 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

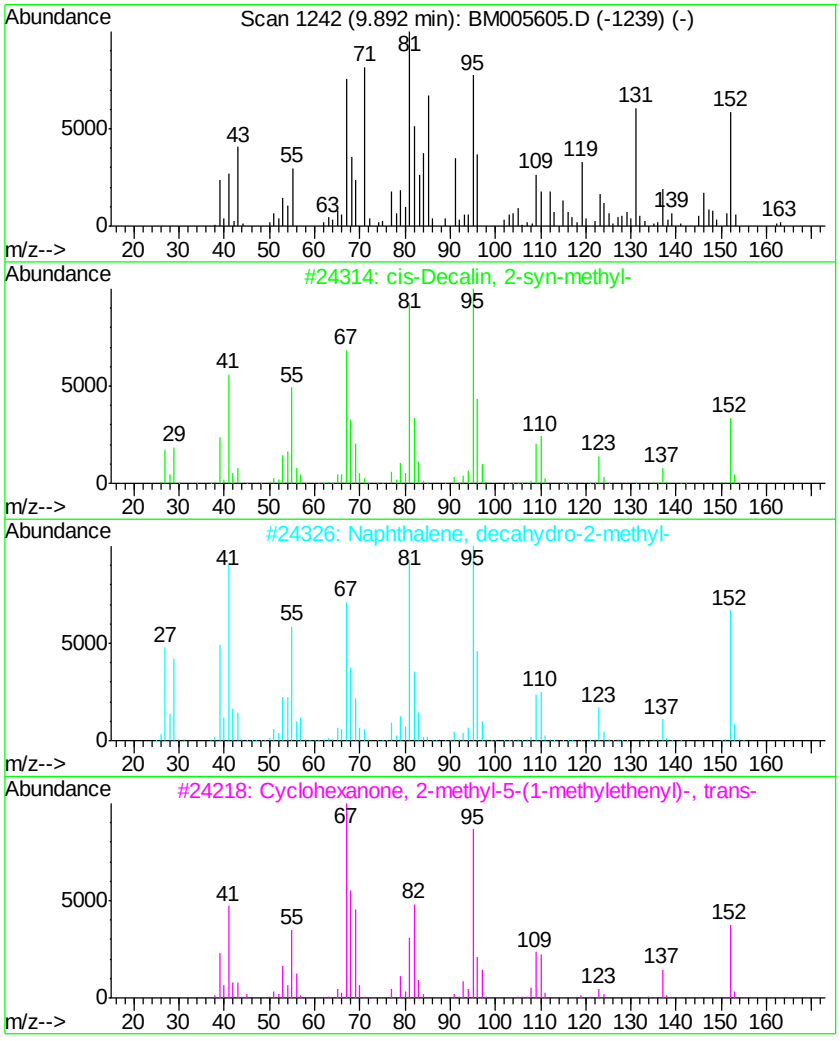
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

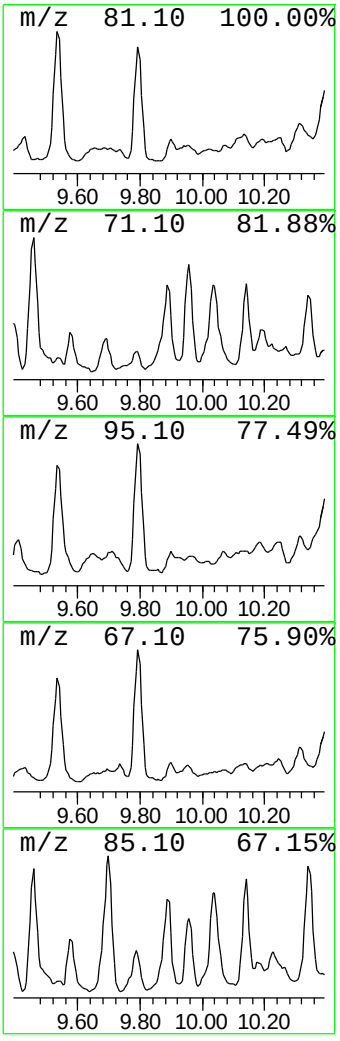
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 (DEL) Alkane: Branched9.89 Concentration Rank 51

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.89 | 2.49 ng/ul | 405239 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 55 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 49 |
| 3 | Cyclohexanone, 2-methyl-5-(1-met... | 152 | C10H16O | 005948-04-9 | 46 |
| 4 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 46 |
| 5 | 9-Octadecyne | 250 | C18H34 | 035365-59-4 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

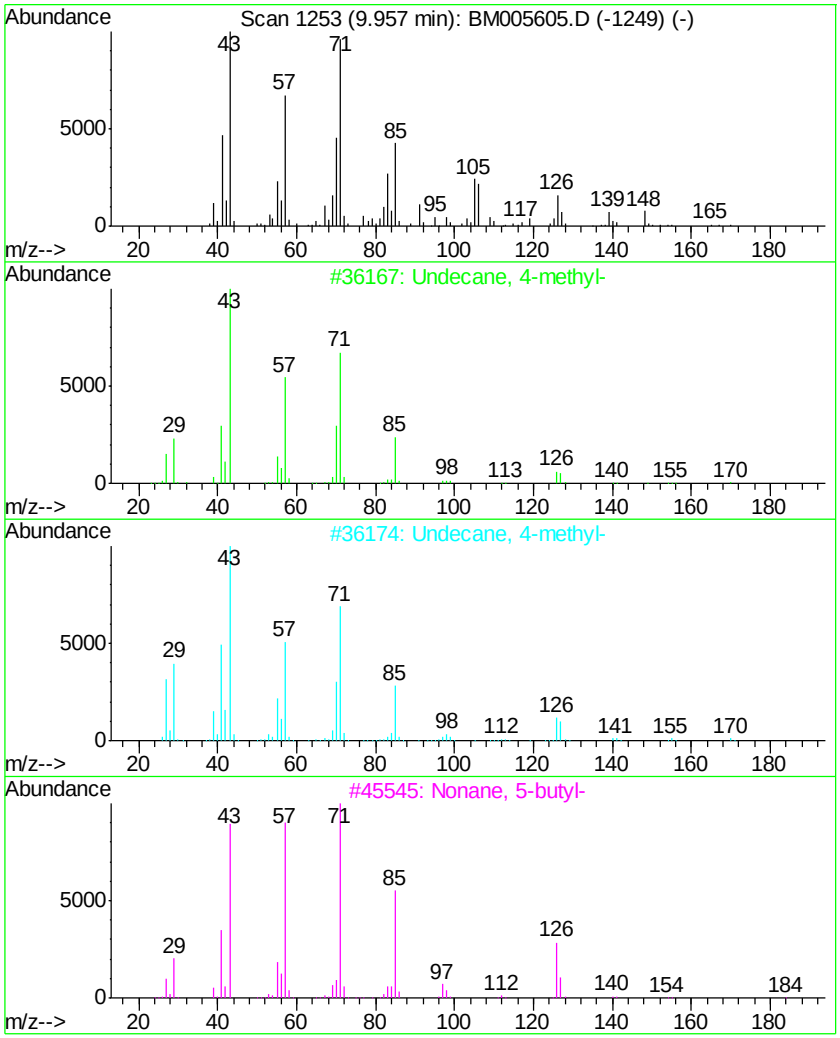
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

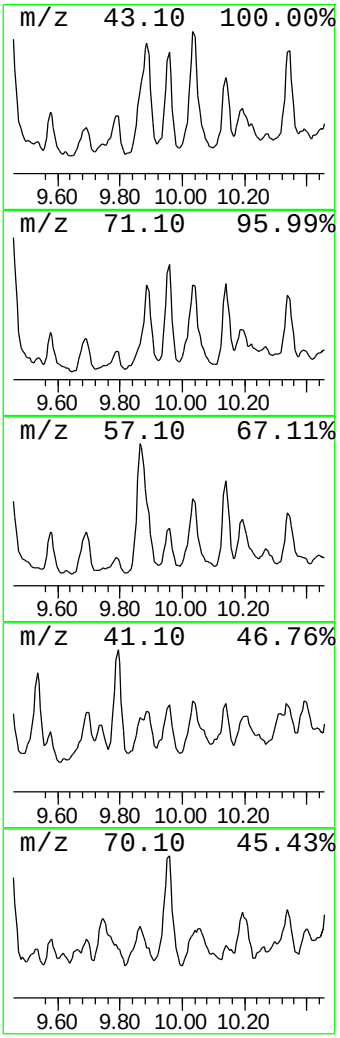
**********

Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.96 | 3.74 ng/ul | 608932 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 4-methyl- | 170 | C12H26 | 002980-69-0 | 62 |
| 2 | Undecane, 4-methyl- | 170 | C12H26 | 002980-69-0 | 53 |
| 3 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 43 |
| 4 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 38 |
| 5 | Propanoic acid, 2-methyl-, 2-met... | 158 | C9H18O2 | 002445-69-4 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

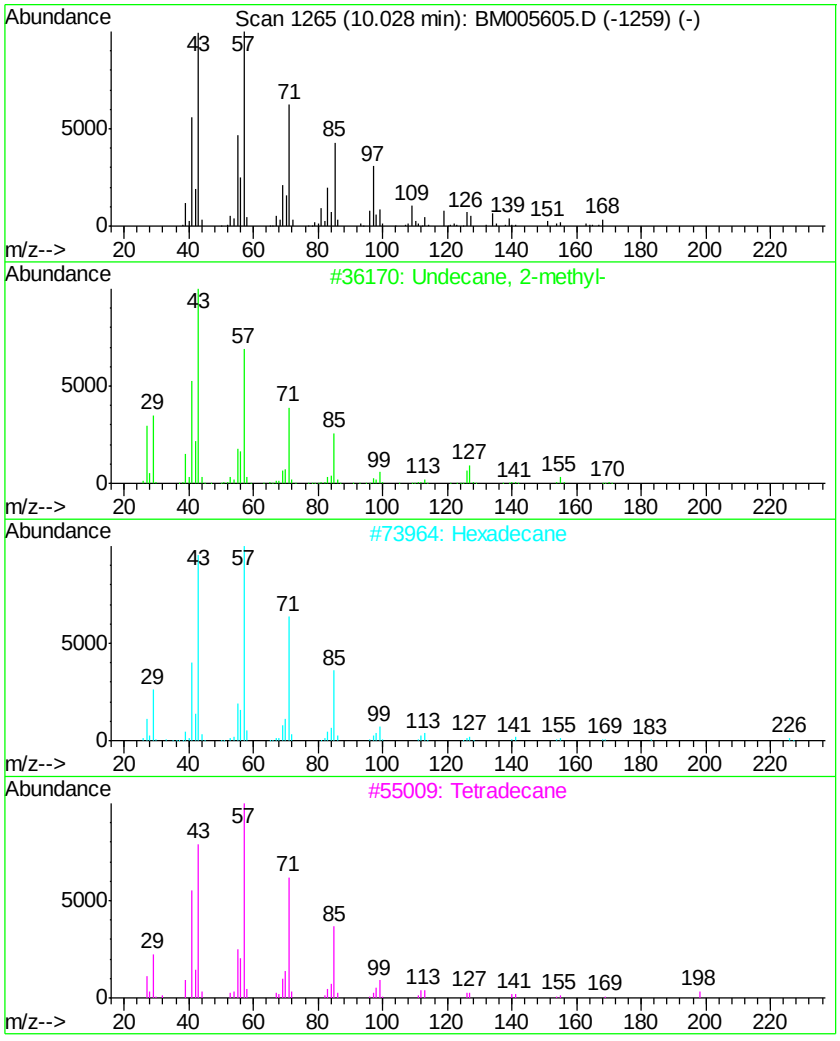
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

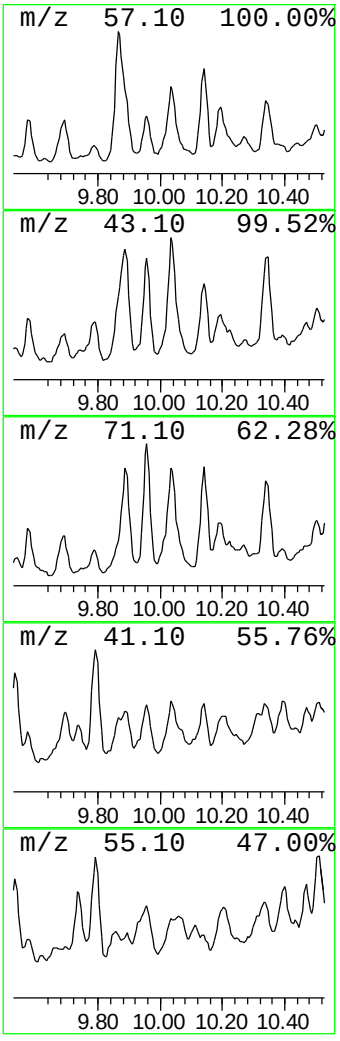
**********

Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.03 | 4.38 ng/ul | 712006 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 78 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 64 |
| 4 | 1-Iodo-2-methylnonane | 268 | C10H21I | 1000101-47-9 | 59 |
| 5 | Decane, 2,9-dimethyl- | 170 | C12H26 | 001002-17-1 | 59 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

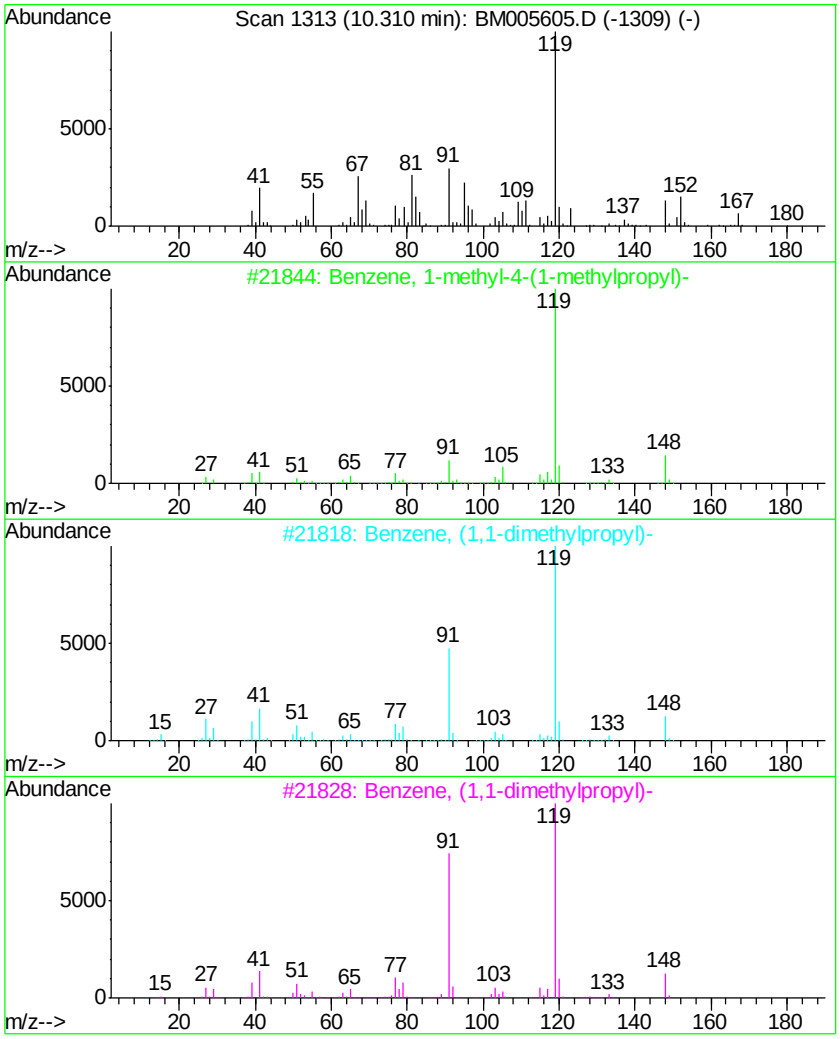
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

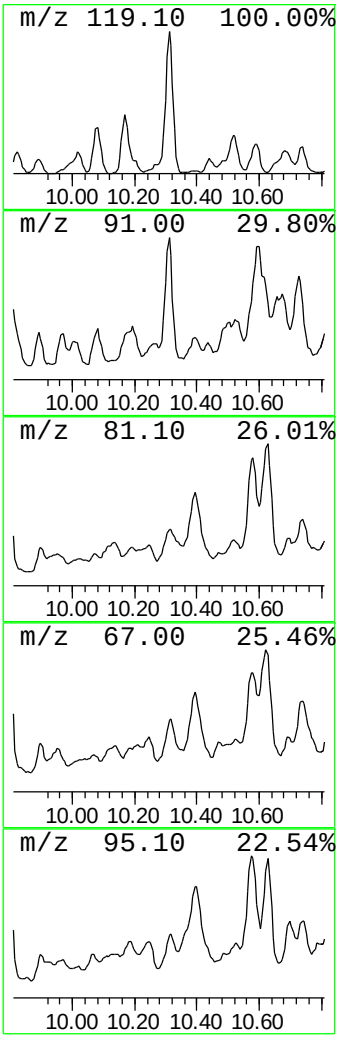
**********

Peak Number 28 Benzene, 1-methyl-4-(1-meth... Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.31 | 3.85 ng/ul | 625609 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 50 |
| 2 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 45 |
| 3 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 45 |
| 4 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 43 |
| 5 | Benzene, 1-ethyl-4-(2-methylprop... | 162 | C12H18 | 100319-40-2 | 41 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

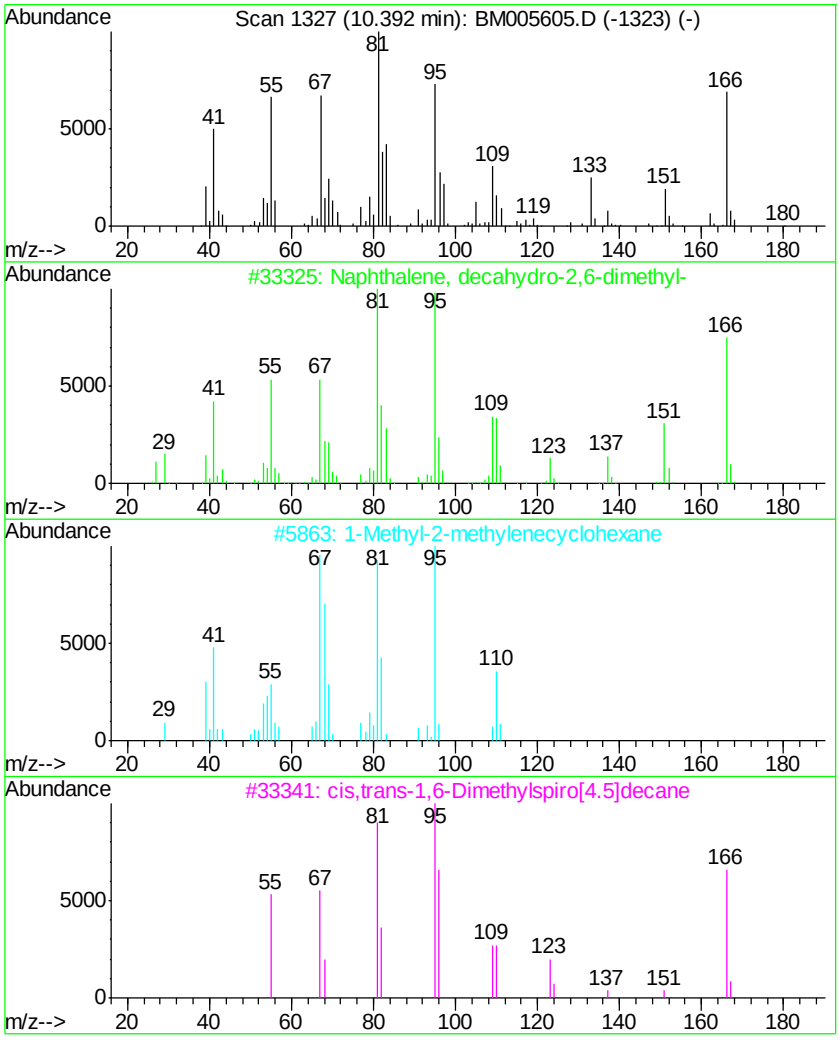
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

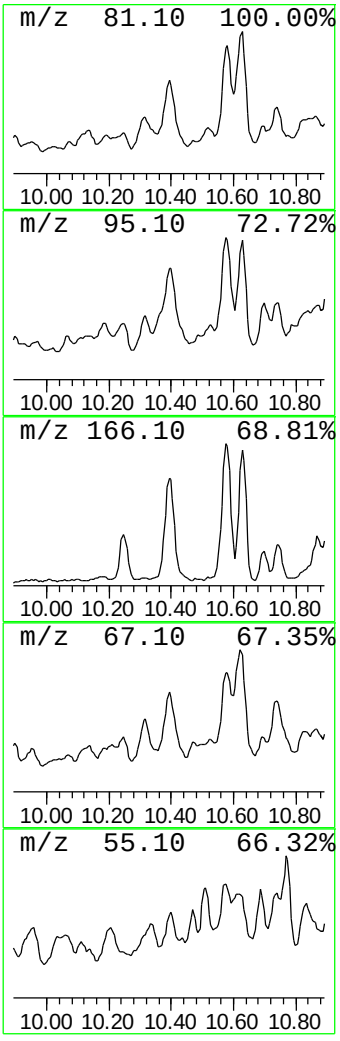
**********

Peak Number 29 (DEL) Alkane: Branched10.39 Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.39 | 3.51 ng/ul | 571419 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2,6-dimet... | 166 | C12H22 | 001618-22-0 | 74 |
| 2 | 1-Methyl-2-methylenecyclohexane | 110 | C8H14 | 002808-75-5 | 50 |
| 3 | cis,trans-1,6-Dimethylspiro[4.5]... | 166 | C12H22 | 1000111-72-3 | 49 |
| 4 | Naphthalene, decahydro-1,5-dimet... | 166 | C12H22 | 066552-62-3 | 49 |
| 5 | 2(1H)-Naphthalenone, octahydro-8... | 166 | C11H18O | 001197-95-1 | 45 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

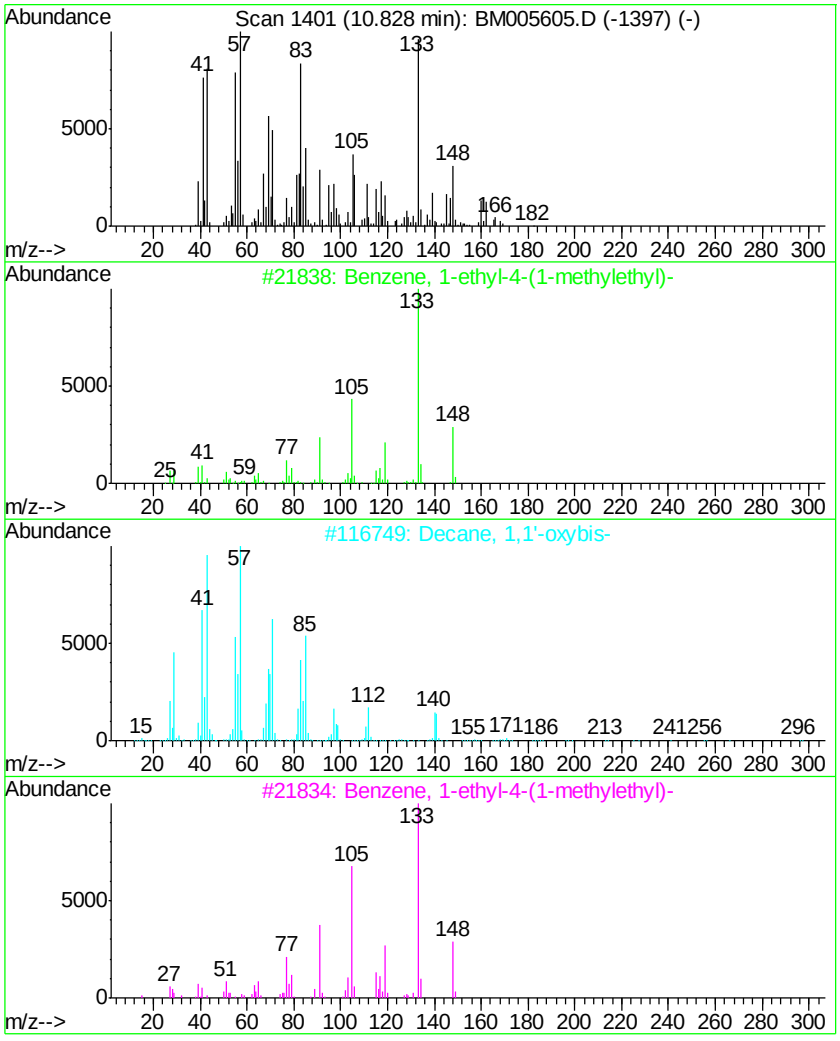
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

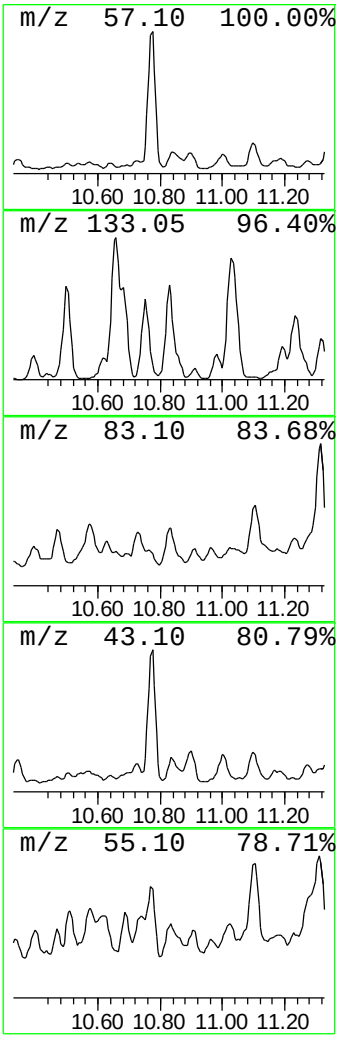
**********

Peak Number 30 unknown-05 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.83 | 7.32 ng/ul | 1190330 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 35 |
| 2 | Decane, 1,1'-oxybis- | 298 | C20H42O | 002456-28-2 | 27 |
| 3 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 18 |
| 4 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 18 |
| 5 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 18 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

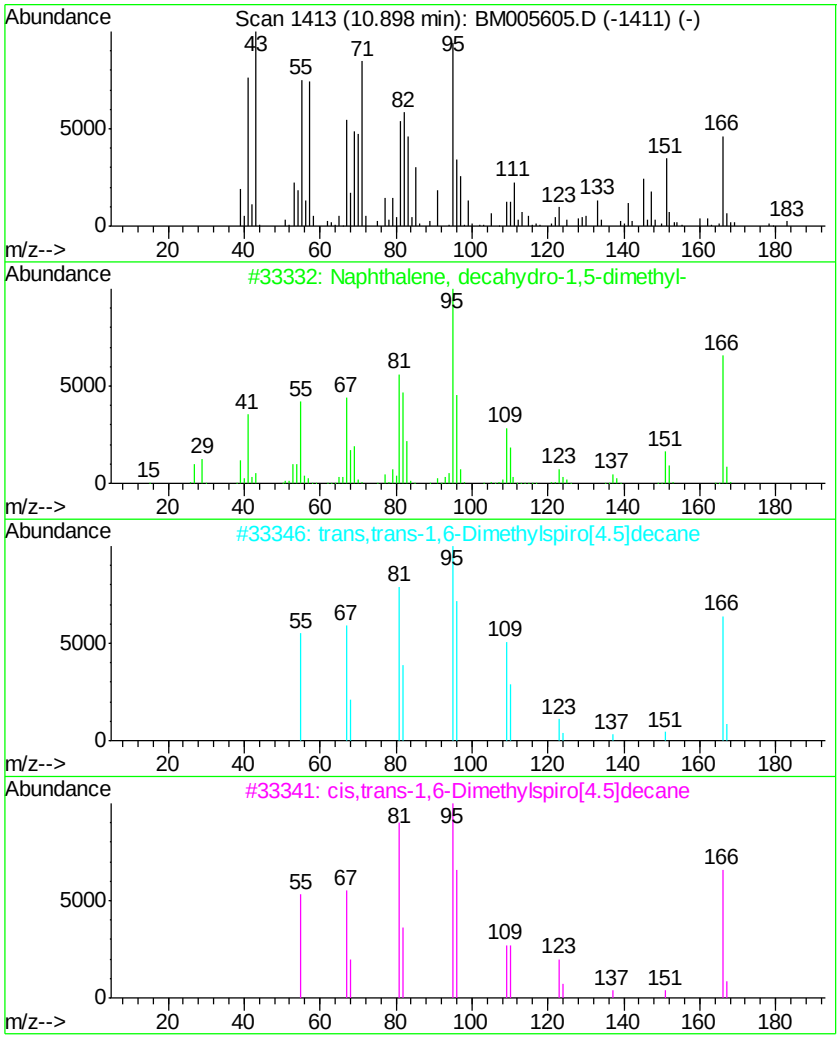
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

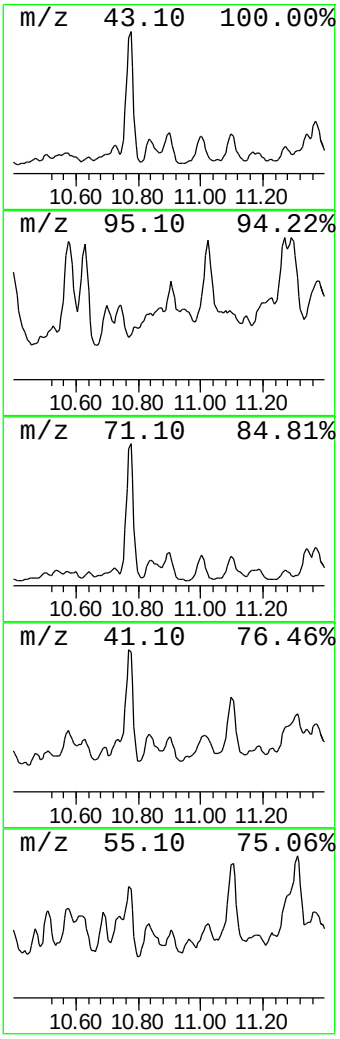
**********

Peak Number 31 (DEL) Alkane: Branched10.90 Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 3.72 ng/ul | 605581 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-1,5-dimet... | 166 | C12H22 | 066552-62-3 | 64 |
| 2 | trans,trans-1,6-Dimethylspiro[4.... | 166 | C12H22 | 1000111-72-1 | 55 |
| 3 | cis,trans-1,6-Dimethylspiro[4.5]... | 166 | C12H22 | 1000111-72-3 | 50 |
| 4 | Cyclododecene, (E)- | 166 | C12H22 | 001486-75-5 | 50 |
| 5 | Bicyclo[3.1.1]heptan-3-one, 2-et... | 166 | C11H18O | 1000163-95-9 | 49 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

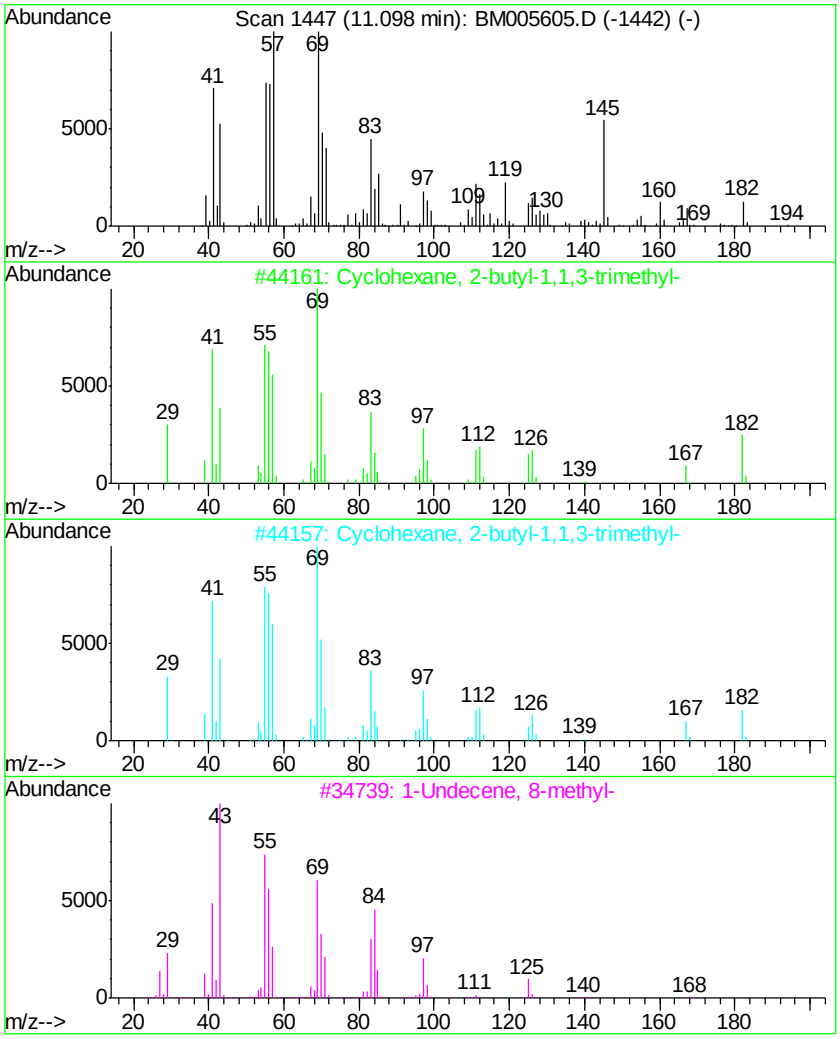
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

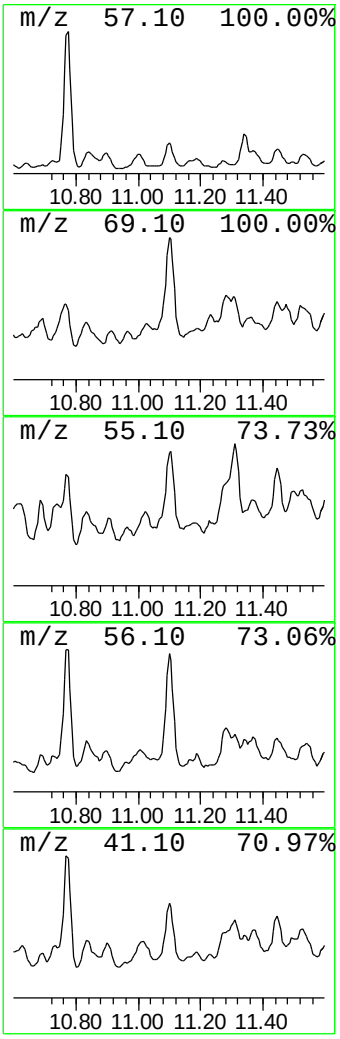
**********

Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.10 | 10.80 ng/ul | 1756560 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26 | 054676-39-0 | 83 |
| 2 | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26 | 054676-39-0 | 70 |
| 3 | 1-Undecene, 8-methyl- | 168 | C12H24 | 074630-40-3 | 58 |
| 4 | 6-Tridecene, (E)- | 182 | C13H26 | 006434-76-0 | 53 |
| 5 | 1-Undecene, 7-methyl- | 168 | C12H24 | 074630-42-5 | 53 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

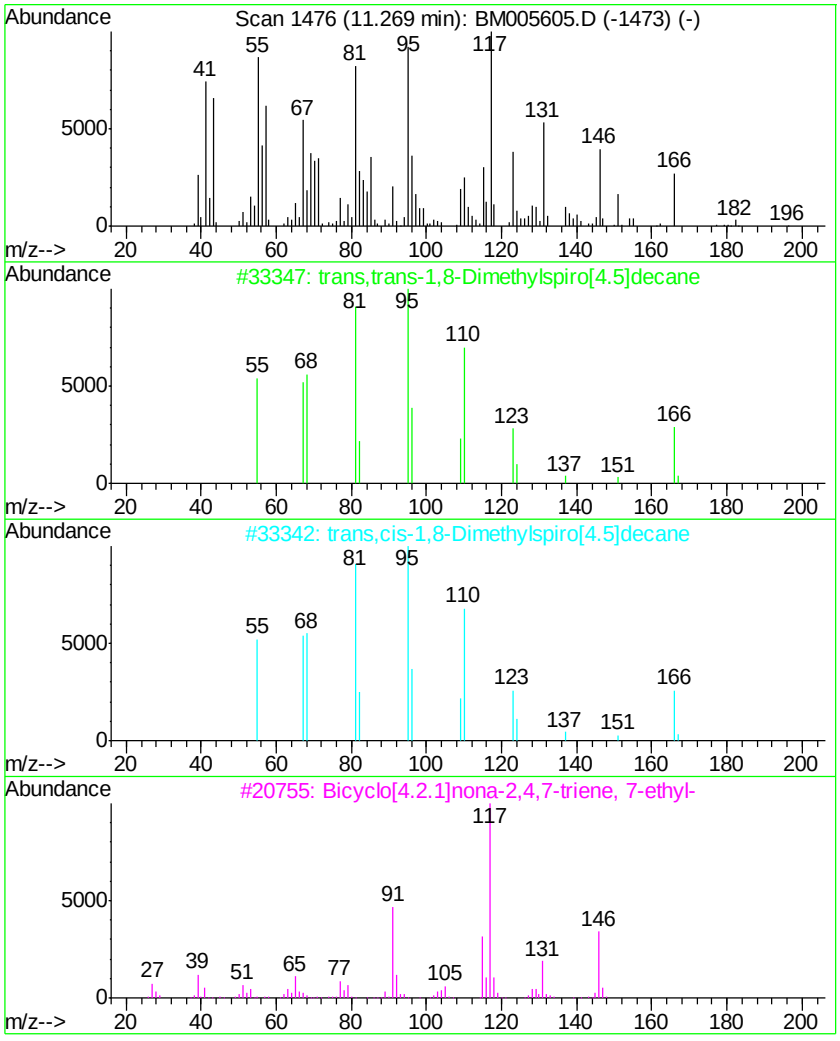
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

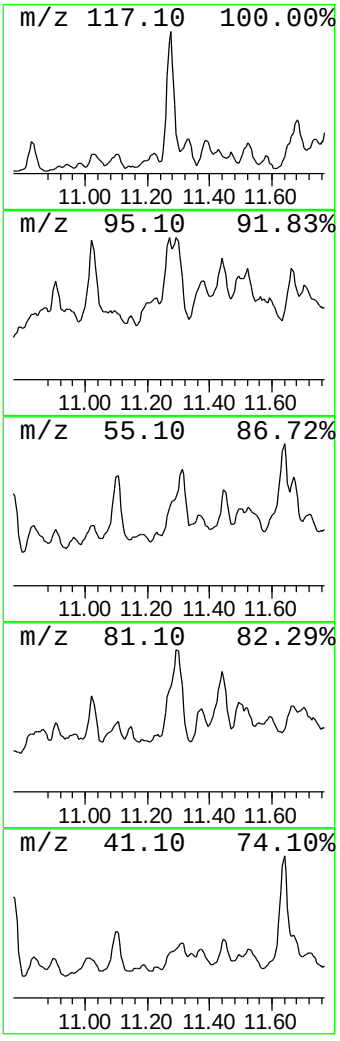
**********

Peak Number 33 (DEL) Alkane: Branched11.27 Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.27 | 5.63 ng/ul | 915258 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans,trans-1,8-Dimethylspiro[4.... | 166 | C12H22 | 1000111-72-8 | 60 |
| 2 | trans,cis-1,8-Dimethylspiro[4.5]... | 166 | C12H22 | 1000111-72-9 | 46 |
| 3 | Bicyclo[4.2.1]nona-2,4,7-triene,... | 146 | C11H14 | 1000164-42-6 | 38 |
| 4 | 2-Ethyl-2,3-dihydro-1H-indene | 146 | C11H14 | 056147-63-8 | 30 |
| 5 | Cyclohexane, ethenyl- | 110 | C8H14 | 000695-12-5 | 25 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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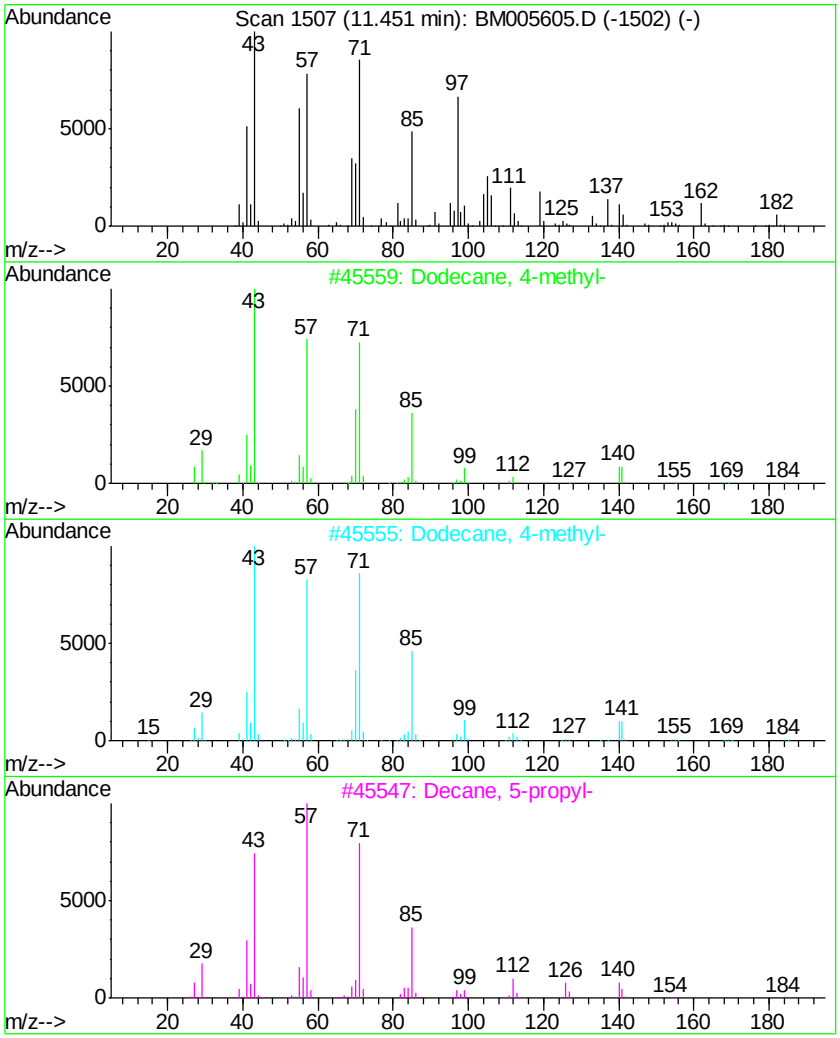
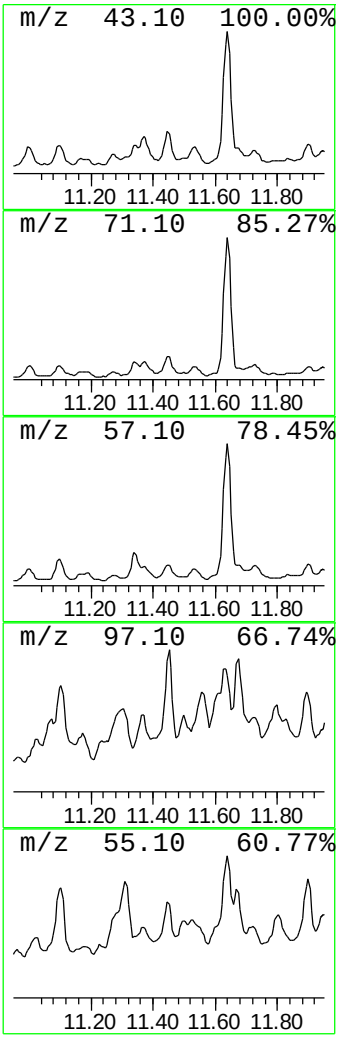
Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.45 | 5.40 ng/ul | 878329 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 70 |
| 2 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 46 |
| 3 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 46 |
| 4 | Nonane, 5-(2-methylpropyl)- | 184 | C13H28 | 062185-53-9 | 35 |
| 5 | Tetradecane, 4-methyl- | 212 | C15H32 | 025117-24-2 | 35 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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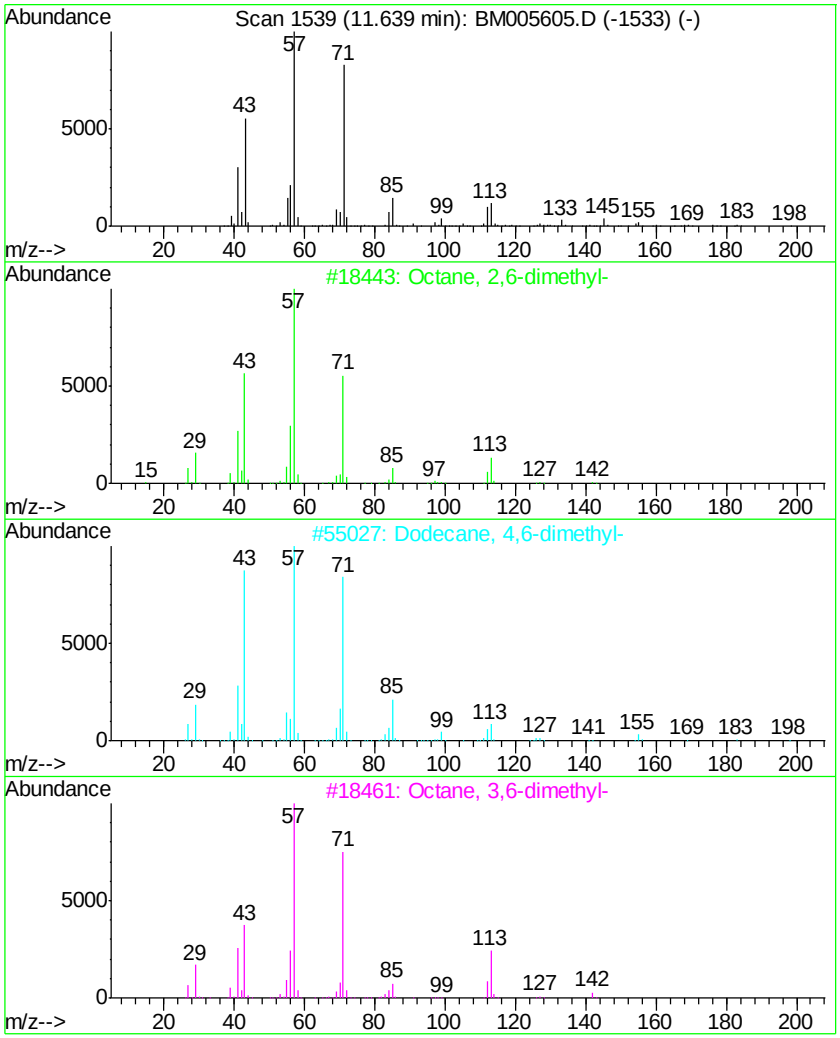
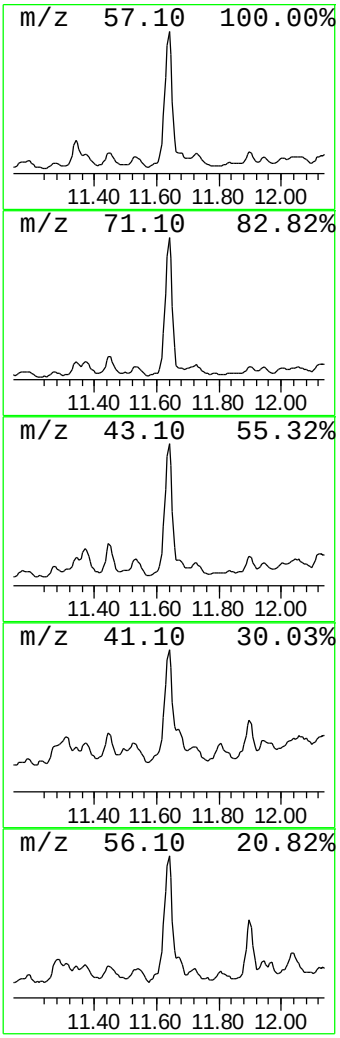
Peak Number 36 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.64 | 26.38 ng/ul | 4290630 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 86 |
| 2 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 74 |
| 3 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 72 |
| 4 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 64 |
| 5 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 64 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

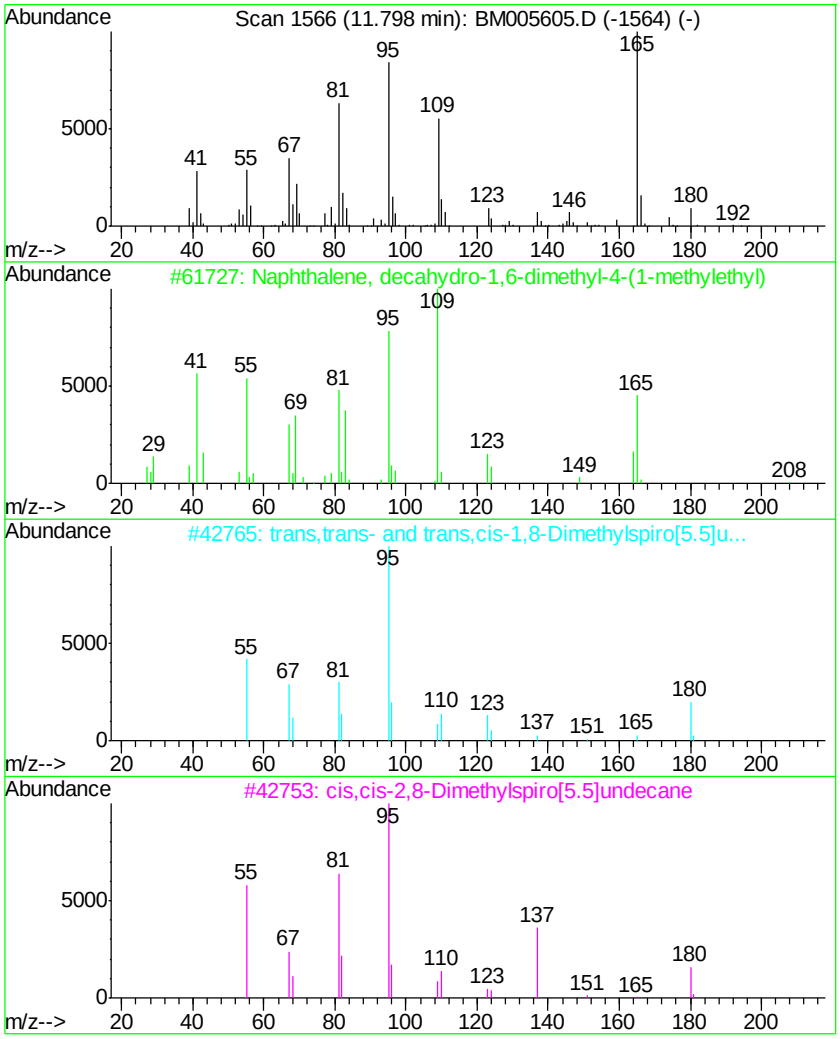
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

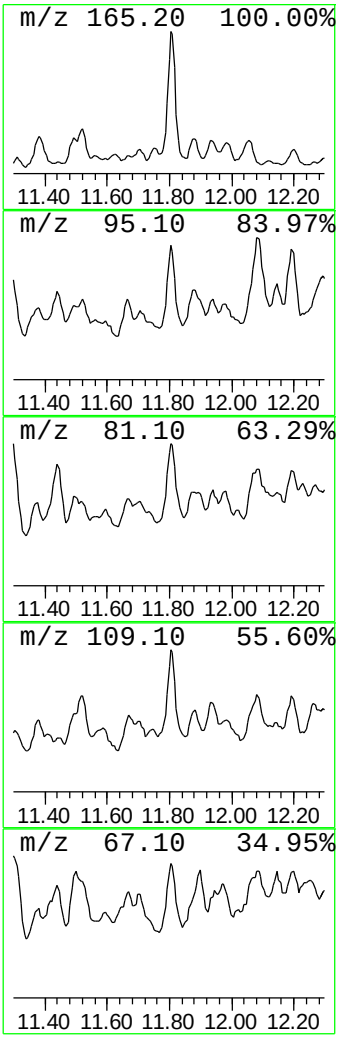
**********

Peak Number 37 (DEL) Alkane: Branched11.80 Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.80 | 3.55 ng/ul | 577858 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-1,6-dimet... | 208 | C15H28 | 029788-41-8 | 59 |
| 2 | trans,trans- and trans,cis-1,8-D... | 180 | C13H24 | 1000111-73-2 | 46 |
| 3 | cis,cis-2,8-Dimethylspiro[5.5]un... | 180 | C13H24 | 095530-75-9 | 41 |
| 4 | trans,cis-2,8-Dimethylspiro[5.5]... | 180 | C13H24 | 095472-52-9 | 38 |
| 5 | trans,trans-1,7-Dimethylspiro[4.... | 166 | C12H22 | 1000111-72-6 | 38 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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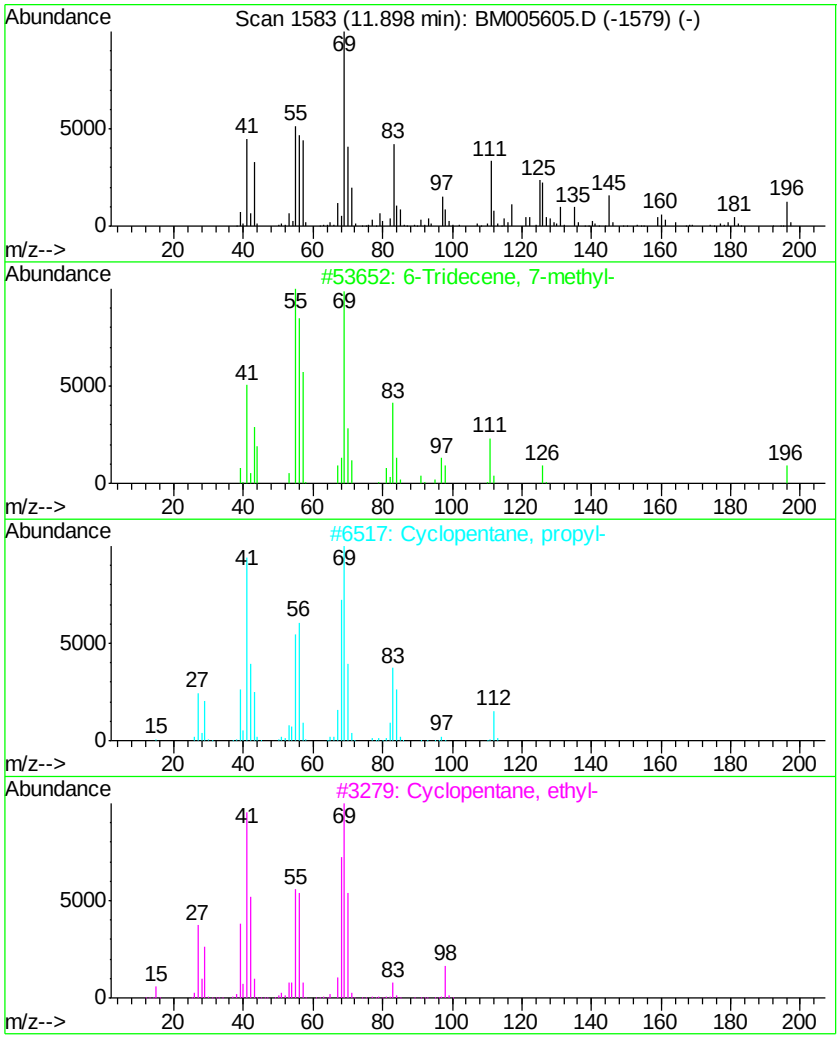
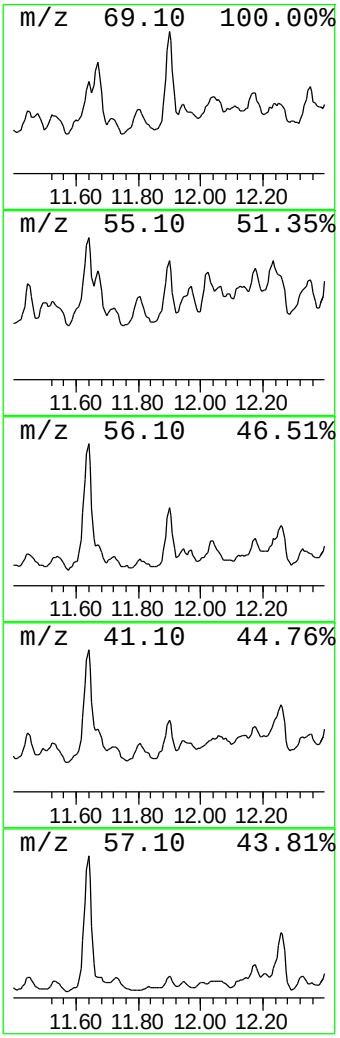
Peak Number 38 (DEL) Alkane: Cyclic11.90 Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 7.07 ng/ul | 1150640 | Naphthalene-d8 | 10.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Tridecene, 7-methyl- | 196 | C14H28 | 024949-42-6 | 52 |
| 2 | Cyclopentane, propyl- | 112 | C8H16 | 002040-96-2 | 52 |
| 3 | Cyclopentane, ethyl- | 98 | C7H14 | 001640-89-7 | 46 |
| 4 | Cyclohexanone, 3,5-dimethyl- | 126 | C8H14O | 002320-30-1 | 46 |
| 5 | Cyclopropane, 1,1-dimethyl-2-nonyl- | 196 | C14H28 | 041977-38-2 | 43 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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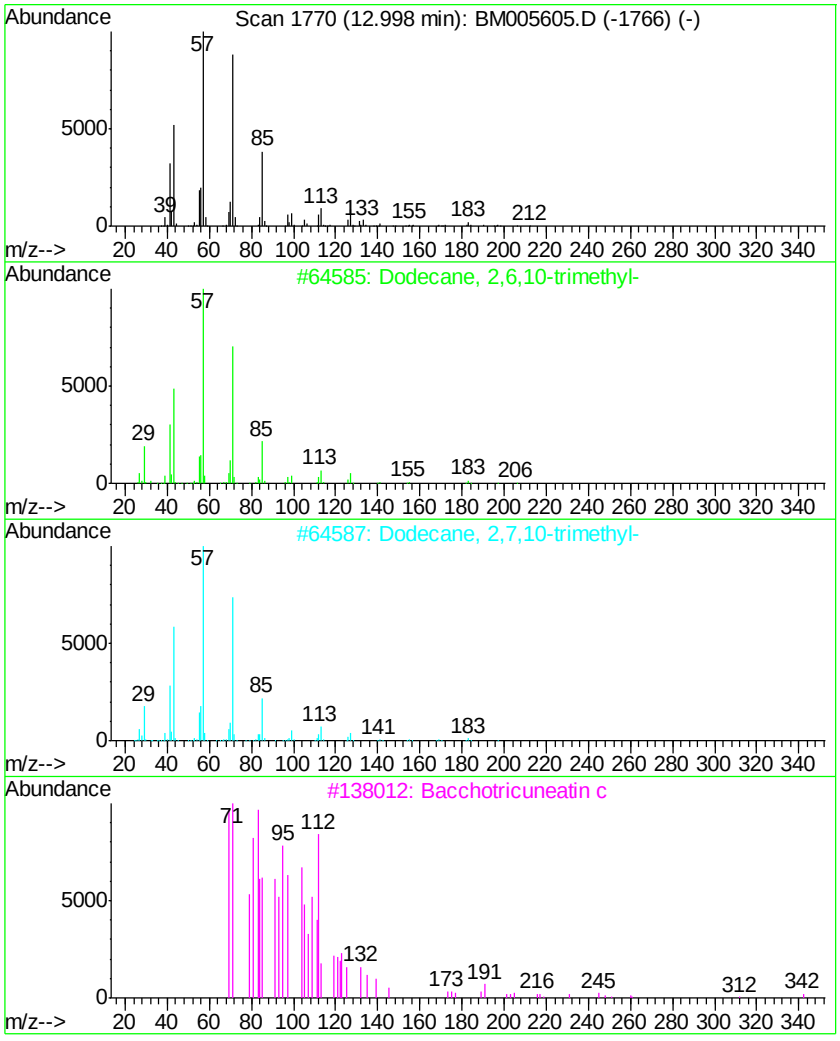
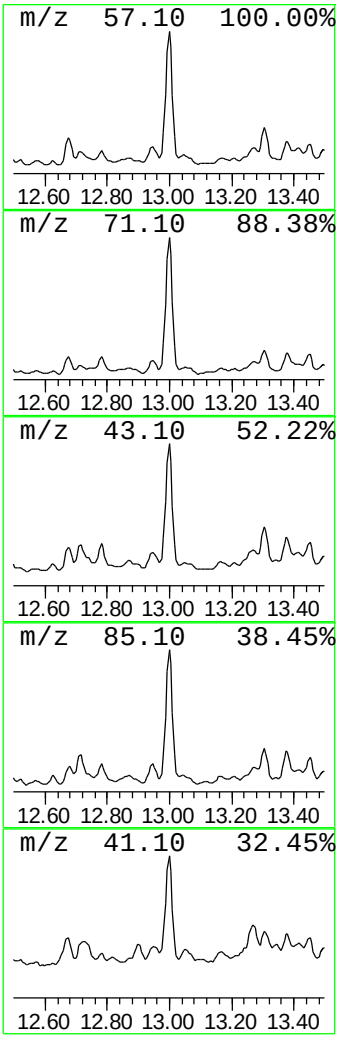
Peak Number 40 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.00 | 63.42 ng/ul | 5245730 | Acenaphthene-d10 | 14.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 80 |
| 2 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 3 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 74 |
| 4 | Decane, 3,7-dimethyl- | 170 | C12H26 | 017312-54-8 | 72 |
| 5 | Nonane, 5-(2-methylpropyl)- | 184 | C13H28 | 062185-53-9 | 64 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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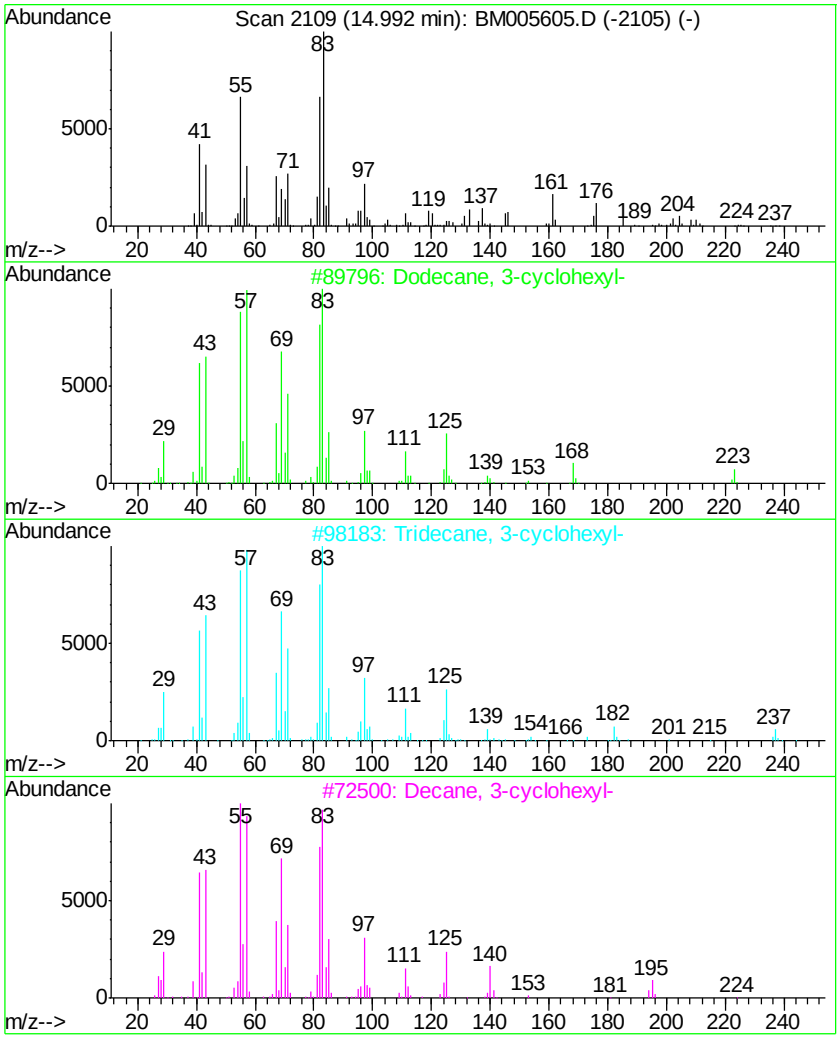
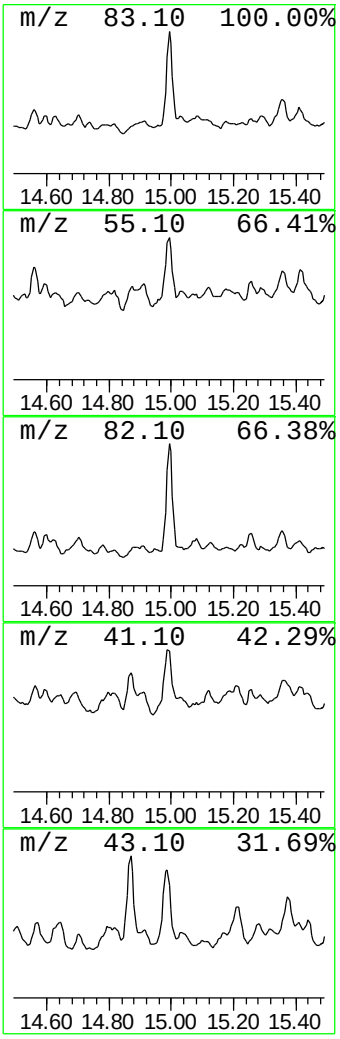
Peak Number 44 (DEL) Alkane: Cyclic14.99 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.99 | 44.66 ng/ul | 3694210 | Acenaphthene-d10 | 14.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 3-cyclohexyl- | 252 | C18H36 | 013151-83-2 | 52 |
| 2 | Tridecane, 3-cyclohexyl- | 266 | C19H38 | 013151-88-7 | 52 |
| 3 | Decane, 3-cyclohexyl- | 224 | C16H32 | 013151-74-1 | 49 |
| 4 | Undecane, 4-cyclohexyl- | 238 | C17H34 | 013151-79-6 | 49 |
| 5 | 3-Methylpenta-1,4-diene-3-ol | 98 | C6H10O | 000918-86-5 | 46 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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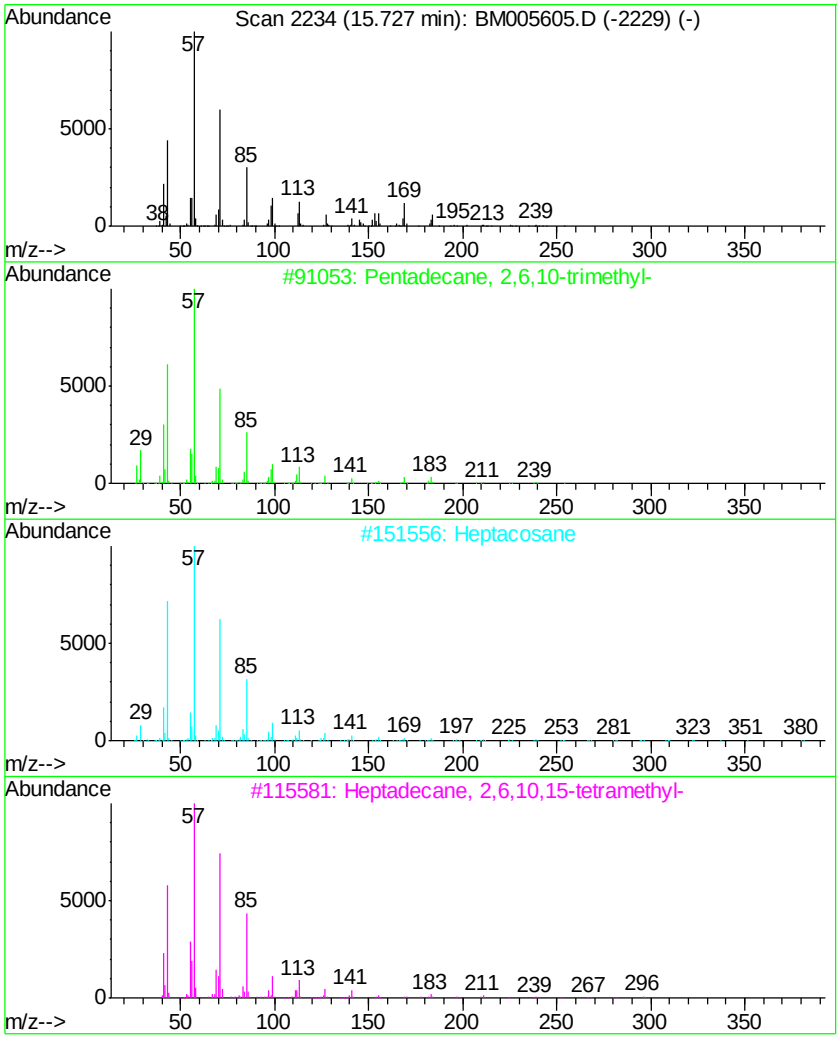
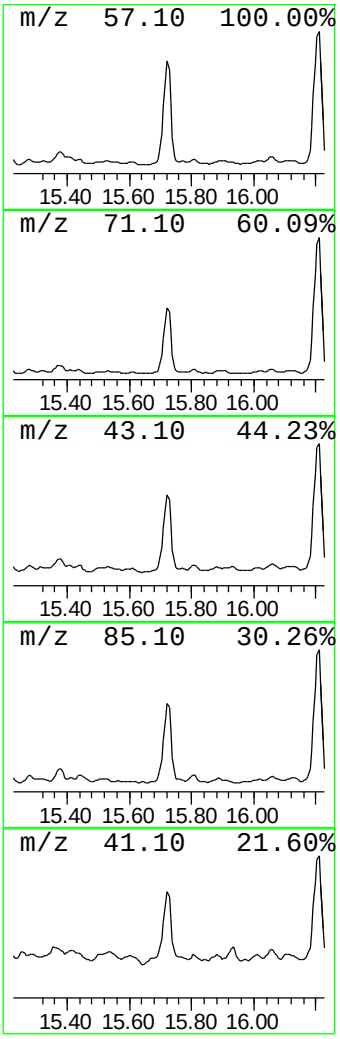
Peak Number 45 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.73 | 64.98 ng/ul | 5374940 | Acenaphthene-d10 | 14.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 87 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 64 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 64 |
| 4 | Decane, 3,6-dimethyl- | 170 | C12H26 | 017312-53-7 | 62 |
| 5 | Dodecane, 4,9-dipropyl- | 254 | C18H38 | 003054-63-5 | 60 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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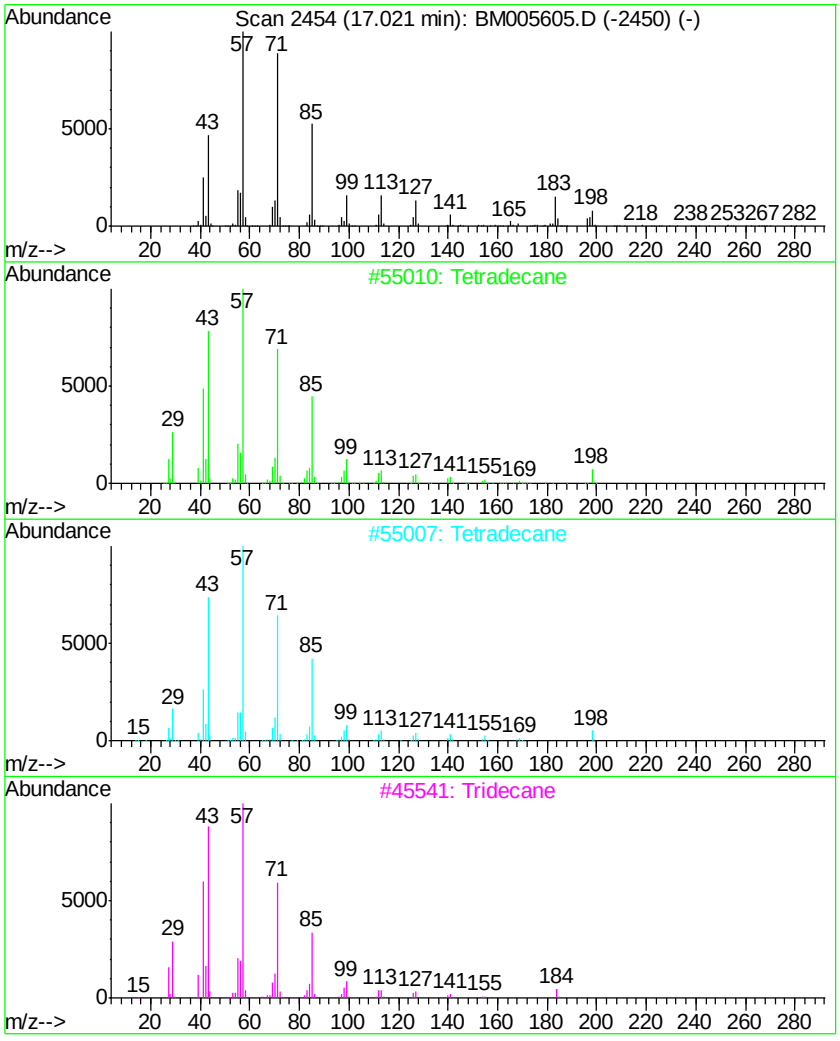
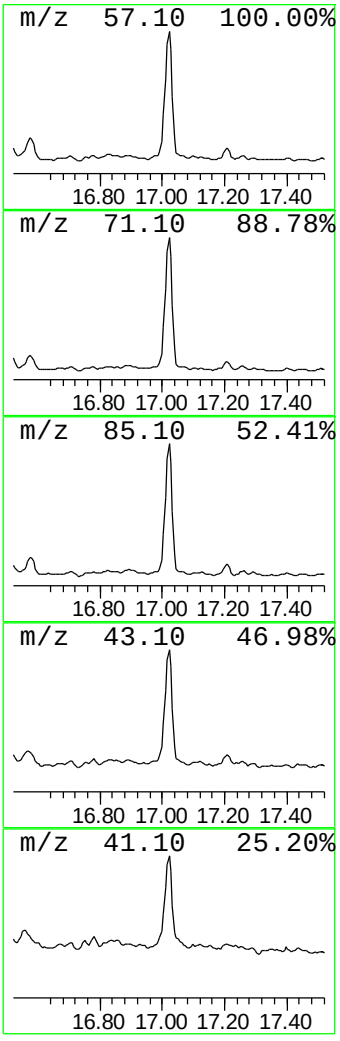
Peak Number 50 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.02 | 24.86 ng/ul | 4425570 | Phenanthrene-d10 | 17.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 5 | 5,5-Dibutylnonane | 240 | C17H36 | 006008-17-9 | 80 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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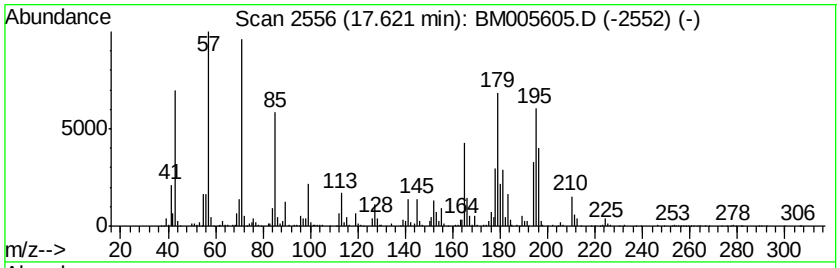
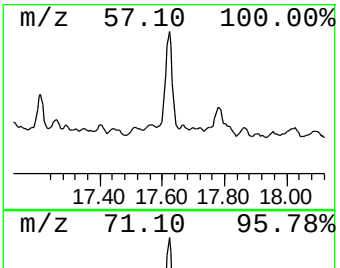
Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.62 | 17.39 ng/ul | 3094880 | Phenanthrene-d10 | 17.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 38 |
| 2 | Tridecane, 6-propyl- | 226 | C16H34 | 055045-10-8 | 38 |
| 3 | Heptadecane, 4-methyl- | 254 | C18H38 | 026429-11-8 | 38 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 30 |
| 5 | Decane, 3,7-dimethyl- | 170 | C12H26 | 017312-54-8 | 30 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
Data File : BM005605.D
Acq On : 23 May 2016 02:19
Operator : UM/SJ
Sample : H3086-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** JHGH6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.94 | 8.6 | ng/ul | 336986 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 6.10 | 7.9 | ng/ul | 310577 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 6.33 | 5.0 | ng/ul | 195545 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Str... | 6.49 | 9.8 | ng/ul | 384641 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 6.81 | 5.6 | ng/ul | 221489 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 7.53 | 8.6 | ng/ul | 339632 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 7.64 | 5.2 | ng/ul | 205433 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 7.74 | 11.8 | ng/ul | 462530 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 7.89 | 7.3 | ng/ul | 285285 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 7.96 | 6.2 | ng/ul | 243574 | 1 | 7.82 | 786581 | 20.0 |
| unknown-01 | 8.00 | 8.4 | ng/ul | 330409 | 1 | 7.82 | 786581 | 20.0 |
| 2,4-Dimethyl-1,5-... | 8.16 | 4.2 | ng/ul | 163794 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 8.34 | 12.6 | ng/ul | 493996 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 8.37 | 5.6 | ng/ul | 218783 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Str... | 8.47 | 5.9 | ng/ul | 230507 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Bra... | 8.65 | 18.0 | ng/ul | 708002 | 1 | 7.82 | 786581 | 20.0 |
| unknown-02 | 8.92 | 29.1 | ng/ul | 1143950 | 1 | 7.82 | 786581 | 20.0 |
| unknown-03 | 9.07 | 5.4 | ng/ul | 212439 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Cyc... | 9.13 | 12.0 | ng/ul | 473560 | 1 | 7.82 | 786581 | 20.0 |
| unknown-04 | 9.16 | 20.2 | ng/ul | 796103 | 1 | 7.82 | 786581 | 20.0 |
| (DEL) Alkane: Str... | 9.29 | 3.0 | ng/ul | 493516 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 9.46 | 2.0 | ng/ul | 332041 | 2 | 10.62 | 3253030 | 20.0 |
| Cyclohexanone, 5-... | 9.53 | 8.2 | ng/ul | 1328770 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 9.79 | 11.1 | ng/ul | 1801810 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 9.89 | 2.5 | ng/ul | 405239 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 9.96 | 3.7 | ng/ul | 608932 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 10.03 | 4.4 | ng/ul | 712006 | 2 | 10.62 | 3253030 | 20.0 |
| Benzene, 1-methyl... | 10.31 | 3.9 | ng/ul | 625609 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 10.39 | 3.5 | ng/ul | 571419 | 2 | 10.62 | 3253030 | 20.0 |
| unknown-05 | 10.83 | 7.3 | ng/ul | 1190330 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 10.90 | 3.7 | ng/ul | 605581 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 11.10 | 10.8 | ng/ul | 1756560 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 11.27 | 5.6 | ng/ul | 915258 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 11.45 | 5.4 | ng/ul | 878329 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 11.64 | 26.4 | ng/ul | 4290630 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Bra... | 11.80 | 3.5 | ng/ul | 577858 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Cyc... | 11.90 | 7.1 | ng/ul | 1150640 | 2 | 10.62 | 3253030 | 20.0 |
| (DEL) Alkane: Str... | 13.00 | 63.4 | ng/ul | 5245730 | 3 | 14.47 | 1654350 | 20.0 |
| (DEL) Alkane: Cyc... | 14.99 | 44.7 | ng/ul | 3694210 | 3 | 14.47 | 1654350 | 20.0 |
| (DEL) Alkane: Str... | 15.73 | 65.0 | ng/ul | 5374940 | 3 | 14.47 | 1654350 | 20.0 |
| (DEL) Alkane: Str... | 17.02 | 24.9 | ng/ul | 4425570 | 4 | 17.22 | 3560220 | 20.0 |
| (DEL) Alkane: Str... | 17.62 | 17.4 | ng/ul | 3094880 | 4 | 17.22 | 3560220 | 20.0 |