LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

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:\HPCHEM1\BNA_M\METHODS\8270-BM120915.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 | 3.993 | 151 | 154 | 170 | rBV | 59381 | 101628 | 2.66% | 0.283% |
| 2 | 4.840 | 291 | 298 | 304 | rBV | 65750 | 91008 | 2.38% | 0.253% |
| 3 | 5.304 | 371 | 377 | 385 | rBV | 530993 | 755899 | 19.76% | 2.102% |
| 4 | 6.216 | 525 | 532 | 538 | rBB | 63476 | 91003 | 2.38% | 0.253% |
| 5 | 6.887 | 639 | 646 | 653 | rBV | 334064 | 519863 | 13.59% | 1.446% |
| 6 | 7.110 | 679 | 684 | 692 | rVB | 33466 | 48307 | 1.26% | 0.134% |
| 7 | 7.251 | 701 | 708 | 716 | rBV | 1062083 | 1715046 | 44.84% | 4.769% |
| 8 | 7.722 | 782 | 788 | 797 | rBV | 275723 | 425597 | 11.13% | 1.183% |
| 9 | 7.834 | 800 | 807 | 814 | rVB | 30524 | 47851 | 1.25% | 0.133% |
| 10 | 8.045 | 835 | 843 | 847 | rBV | 1022028 | 1727305 | 45.16% | 4.803% |
| 11 | 8.098 | 847 | 852 | 861 | rVB | 1704998 | 2742543 | 71.70% | 7.626% |
| 12 | 8.257 | 874 | 879 | 886 | rVB | 119678 | 184013 | 4.81% | 0.512% |
| 13 | 8.822 | 970 | 975 | 979 | rBV2 | 40363 | 63488 | 1.66% | 0.177% |
| 14 | 8.881 | 979 | 985 | 995 | rVB | 856675 | 1469275 | 38.41% | 4.085% |
| 15 | 9.075 | 1012 | 1018 | 1023 | rBV | 26892 | 44040 | 1.15% | 0.122% |
| 16 | 9.763 | 1130 | 1135 | 1146 | rVB | 27514 | 47068 | 1.23% | 0.131% |
| 17 | 9.916 | 1155 | 1161 | 1170 | rVB2 | 135773 | 244068 | 6.38% | 0.679% |
| 18 | 10.010 | 1170 | 1177 | 1181 | rBV | 78473 | 139143 | 3.64% | 0.387% |
| 19 | 10.051 | 1181 | 1184 | 1190 | rVB | 39299 | 60051 | 1.57% | 0.167% |
| 20 | 10.510 | 1251 | 1262 | 1268 | rBV | 406288 | 712010 | 18.61% | 1.980% |
| 21 | 10.563 | 1268 | 1271 | 1277 | rVB5 | 27143 | 45607 | 1.19% | 0.127% |
| 22 | 10.869 | 1318 | 1323 | 1330 | rBV2 | 40697 | 71078 | 1.86% | 0.198% |
| 23 | 11.116 | 1357 | 1365 | 1372 | rBV | 141677 | 253643 | 6.63% | 0.705% |
| 24 | 11.898 | 1494 | 1498 | 1504 | rVB2 | 36636 | 57077 | 1.49% | 0.159% |
| 25 | 12.075 | 1523 | 1528 | 1535 | rVB | 31277 | 49926 | 1.31% | 0.139% |
| 26 | 12.398 | 1570 | 1583 | 1591 | rBV2 | 101790 | 216592 | 5.66% | 0.602% |
| 27 | 12.992 | 1674 | 1684 | 1690 | rBV | 2352490 | 3611283 | 94.41% | 10.042% |
| 28 | 13.198 | 1714 | 1719 | 1724 | rBV3 | 25047 | 39545 | 1.03% | 0.110% |
| 29 | 13.269 | 1724 | 1731 | 1737 | rBV | 87521 | 144493 | 3.78% | 0.402% |
| 30 | 13.539 | 1772 | 1777 | 1782 | rVB3 | 31951 | 60525 | 1.58% | 0.168% |
| 31 | 13.686 | 1795 | 1802 | 1808 | rBV | 50695 | 96647 | 2.53% | 0.269% |
| 32 | 13.827 | 1821 | 1826 | 1835 | rVB | 103032 | 146702 | 3.84% | 0.408% |
| 33 | 13.927 | 1835 | 1843 | 1846 | rBV | 42014 | 72545 | 1.90% | 0.202% |
| 34 | 14.092 | 1863 | 1871 | 1876 | rBV2 | 28838 | 44623 | 1.17% | 0.124% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

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:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.374 | 1907 | 1919 | 1925 | rBV2 | 642535 | 1027731 | 26.87% | 2.858% |
| 36 | 14.433 | 1925 | 1929 | 1938 | rVB | 388193 | 597731 | 15.63% | 1.662% |
| 37 | 14.774 | 1982 | 1987 | 1992 | rVB2 | 22744 | 39061 | 1.02% | 0.109% |
| 38 | 15.298 | 2071 | 2076 | 2081 | rBV | 67524 | 114332 | 2.99% | 0.318% |
| 39 | 15.345 | 2081 | 2084 | 2091 | rVB2 | 33132 | 72881 | 1.91% | 0.203% |
| 40 | 15.421 | 2091 | 2097 | 2108 | rVB | 152575 | 236087 | 6.17% | 0.656% |
| 41 | 15.516 | 2109 | 2113 | 2116 | rBV | 24260 | 38825 | 1.02% | 0.108% |
| 42 | 15.586 | 2122 | 2125 | 2129 | rVV | 42602 | 49061 | 1.28% | 0.136% |
| 43 | 15.868 | 2163 | 2173 | 2183 | rBV | 1559796 | 2437254 | 63.72% | 6.777% |
| 44 | 16.092 | 2207 | 2211 | 2218 | rVB2 | 67117 | 113815 | 2.98% | 0.316% |
| 45 | 16.268 | 2237 | 2241 | 2245 | rBV2 | 30823 | 43743 | 1.14% | 0.122% |
| 46 | 16.745 | 2318 | 2322 | 2334 | rVB6 | 31998 | 93347 | 2.44% | 0.260% |
| 47 | 16.927 | 2348 | 2353 | 2357 | rBV6 | 23658 | 43363 | 1.13% | 0.121% |
| 48 | 17.121 | 2380 | 2386 | 2391 | rVV | 767252 | 1098537 | 28.72% | 3.055% |
| 49 | 17.251 | 2404 | 2408 | 2413 | rVB | 56720 | 78345 | 2.05% | 0.218% |
| 50 | 18.015 | 2532 | 2538 | 2550 | rBV3 | 62879 | 128534 | 3.36% | 0.357% |
| 51 | 18.192 | 2563 | 2568 | 2572 | rBV2 | 41978 | 69651 | 1.82% | 0.194% |
| 52 | 18.874 | 2680 | 2684 | 2687 | rBV | 32672 | 40763 | 1.07% | 0.113% |
| 53 | 18.992 | 2699 | 2704 | 2711 | rVB | 976359 | 1214842 | 31.76% | 3.378% |
| 54 | 19.062 | 2712 | 2716 | 2723 | rVB3 | 37116 | 56887 | 1.49% | 0.158% |
| 55 | 19.180 | 2731 | 2736 | 2745 | rVB | 145131 | 209870 | 5.49% | 0.584% |
| 56 | 19.304 | 2753 | 2757 | 2759 | rBV | 34691 | 38930 | 1.02% | 0.108% |
| 57 | 19.545 | 2794 | 2798 | 2808 | rVB | 154126 | 239886 | 6.27% | 0.667% |
| 58 | 19.756 | 2828 | 2834 | 2846 | rVB | 2848977 | 3825043 | 100.00% | 10.636% |
| 59 | 20.551 | 2965 | 2969 | 2975 | rVB3 | 30881 | 39990 | 1.05% | 0.111% |
| 60 | 21.027 | 3047 | 3050 | 3057 | rVB3 | 55189 | 85960 | 2.25% | 0.239% |
| 61 | 21.315 | 3092 | 3099 | 3103 | rBV | 818437 | 1208475 | 31.59% | 3.360% |
| 62 | 21.350 | 3103 | 3105 | 3110 | rVV | 73806 | 78817 | 2.06% | 0.219% |
| 63 | 21.415 | 3110 | 3116 | 3121 | rVV | 2140373 | 2708916 | 70.82% | 7.532% |
| 64 | 22.892 | 3360 | 3367 | 3372 | rBV | 62705 | 158640 | 4.15% | 0.441% |
| 65 | 23.374 | 3443 | 3449 | 3458 | rBV2 | 39834 | 77056 | 2.01% | 0.214% |
| 66 | 23.468 | 3459 | 3465 | 3474 | rVB | 59398 | 119527 | 3.12% | 0.332% |
| 67 | 23.568 | 3474 | 3482 | 3489 | rBV | 476937 | 925470 | 24.20% | 2.573% |
| 68 | 23.803 | 3514 | 3522 | 3532 | rBV | 1191333 | 2228556 | 58.26% | 6.197% |
| 69 | 24.662 | 3663 | 3668 | 3674 | rVB5 | 19356 | 41033 | 1.07% | 0.114% |
| 70 | 25.838 | 3860 | 3868 | 3876 | rBV3 | 28509 | 84333 | 2.20% | 0.234% |
| 71 | 26.532 | 3982 | 3986 | 3997 | rVB3 | 20226 | 55025 | 1.44% | 0.153% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
20151130-MGP214-BRV114

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:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 27.962 | 4221 | 4229 | 4242 | rVB2 | 29974 | 103700 | 2.71% | 0.288% |

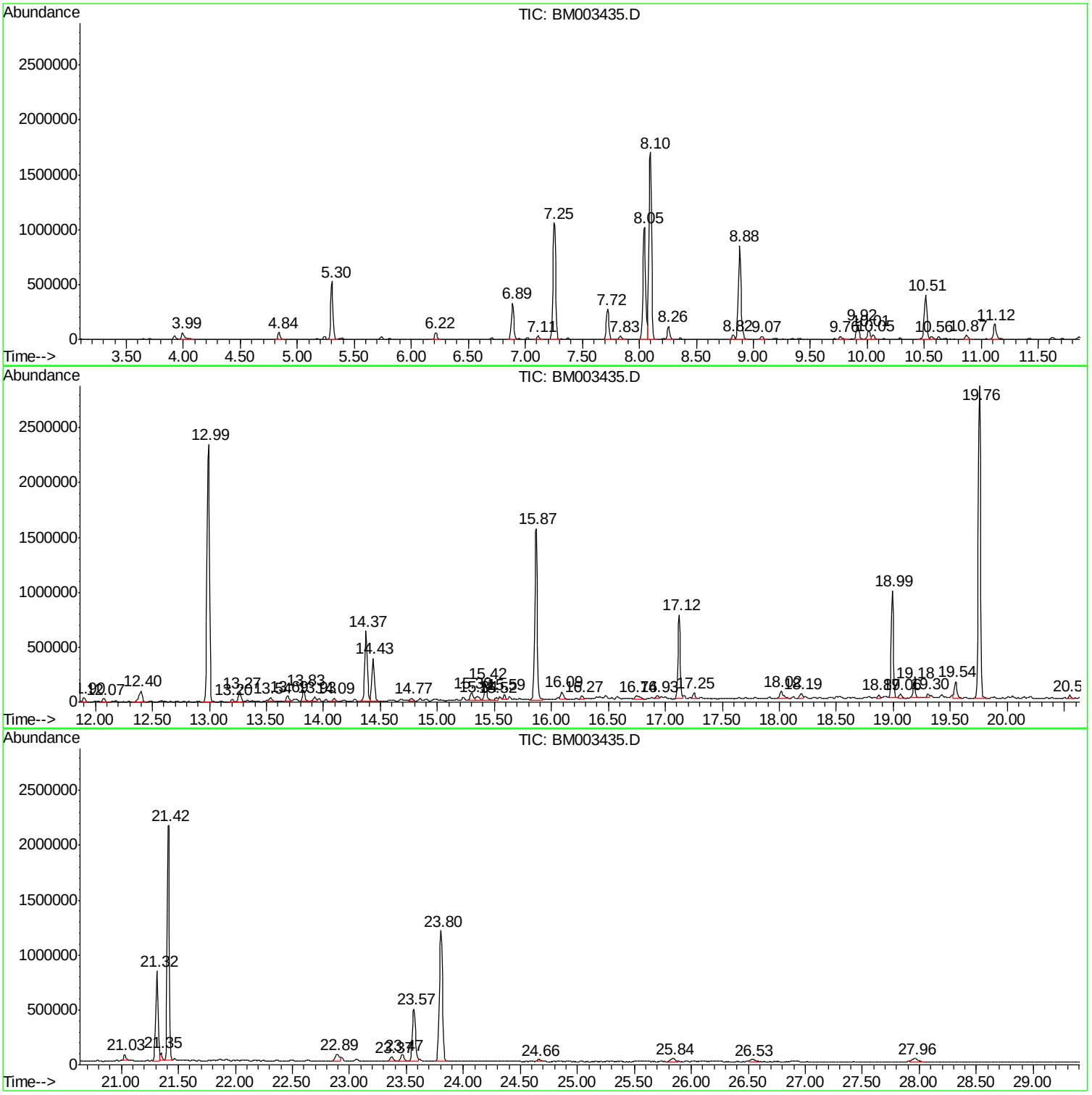
Sum of corrected areas: 35963509

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

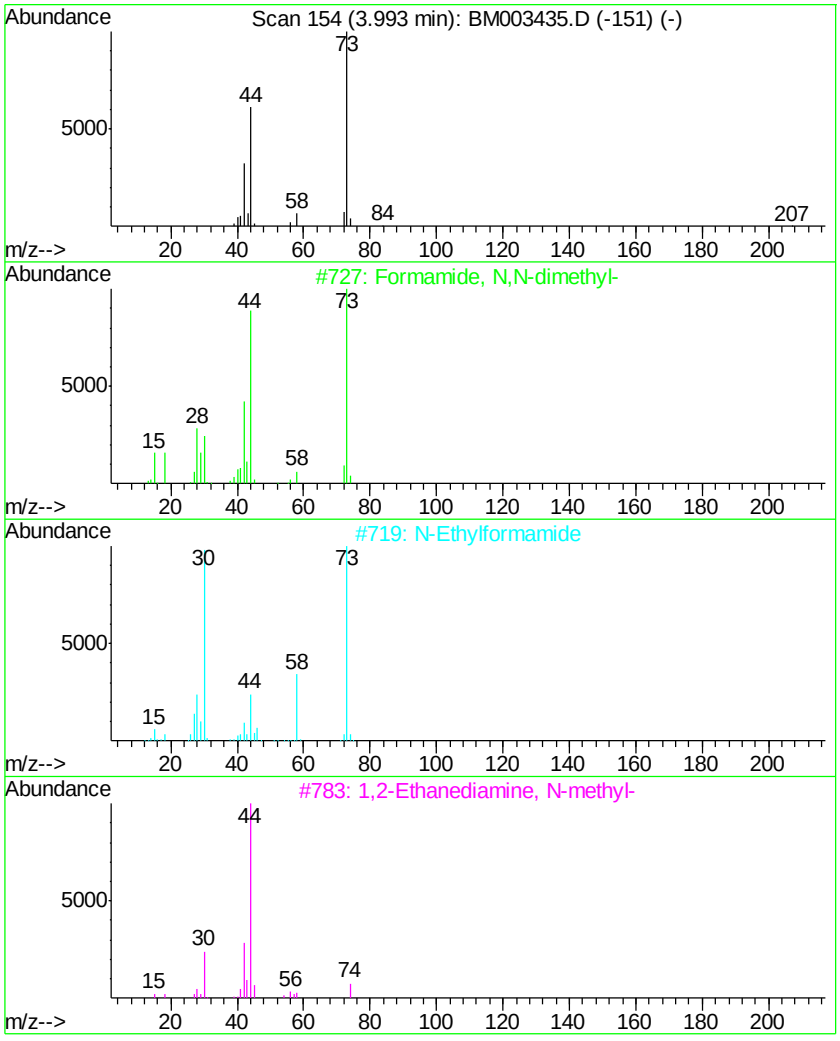
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

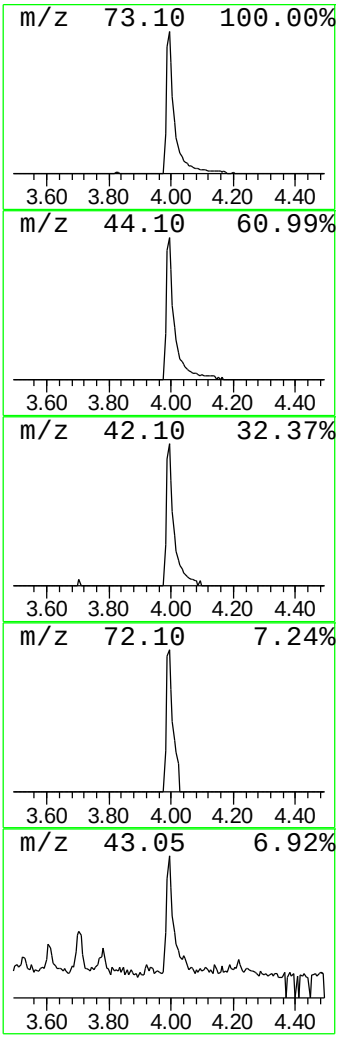
**********

Peak Number 1 Formamide, N,N-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.99 | 4.78 ng | 101628 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Formamide, N,N-dimethyl- | 73 | C3H7NO | 000068-12-2 | 90 |
| 2 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 3 | 1,2-Ethanediamine, N-methyl- | 74 | C3H10N2 | 000109-81-9 | 9 |
| 4 | 1,3-Dioxolane | 74 | C3H6O2 | 000646-06-0 | 7 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 5 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

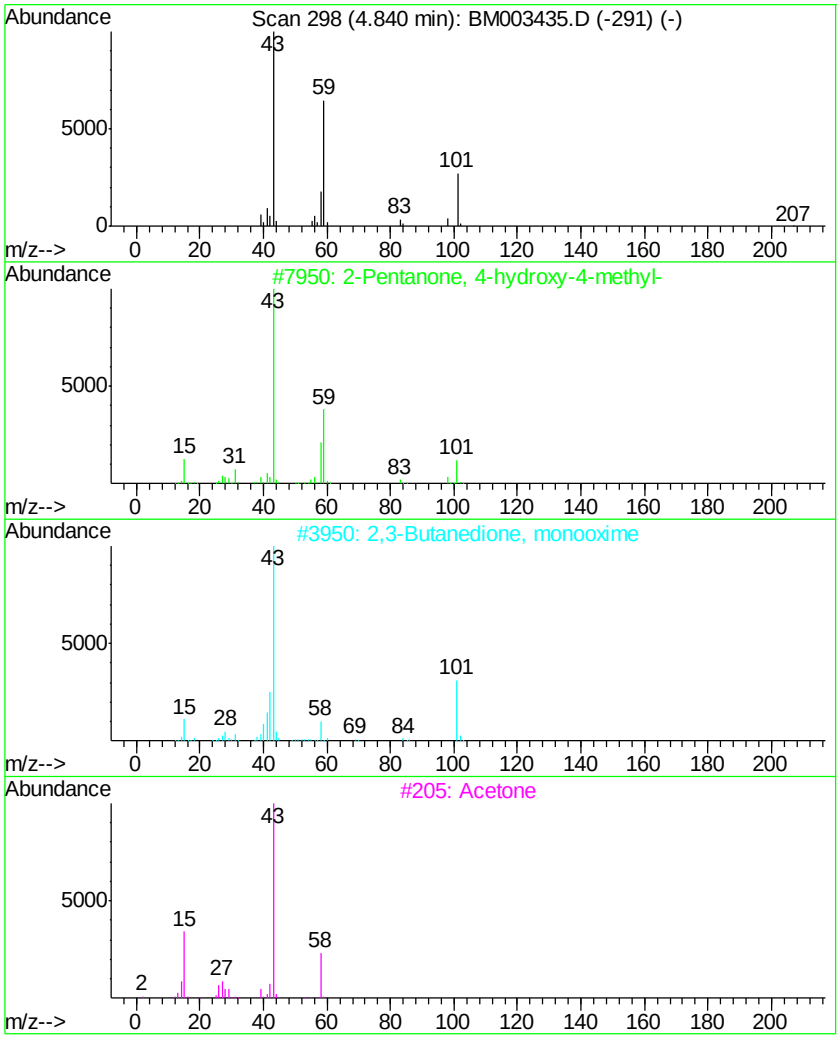
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

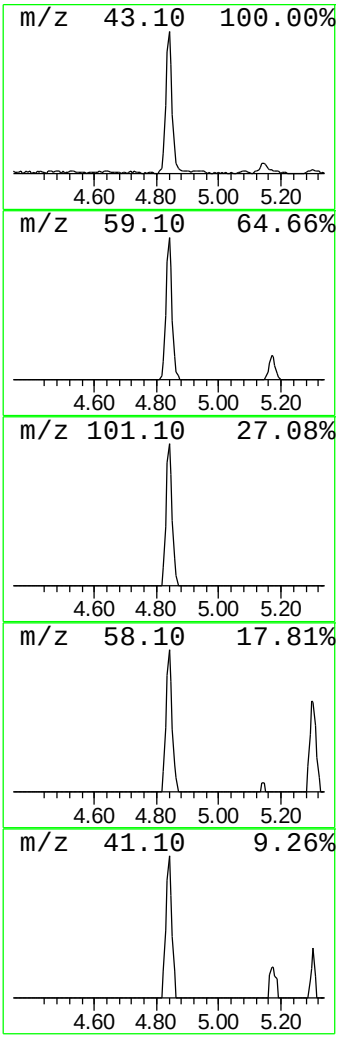
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.84 | 4.28 ng | 91008 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |
| 3 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

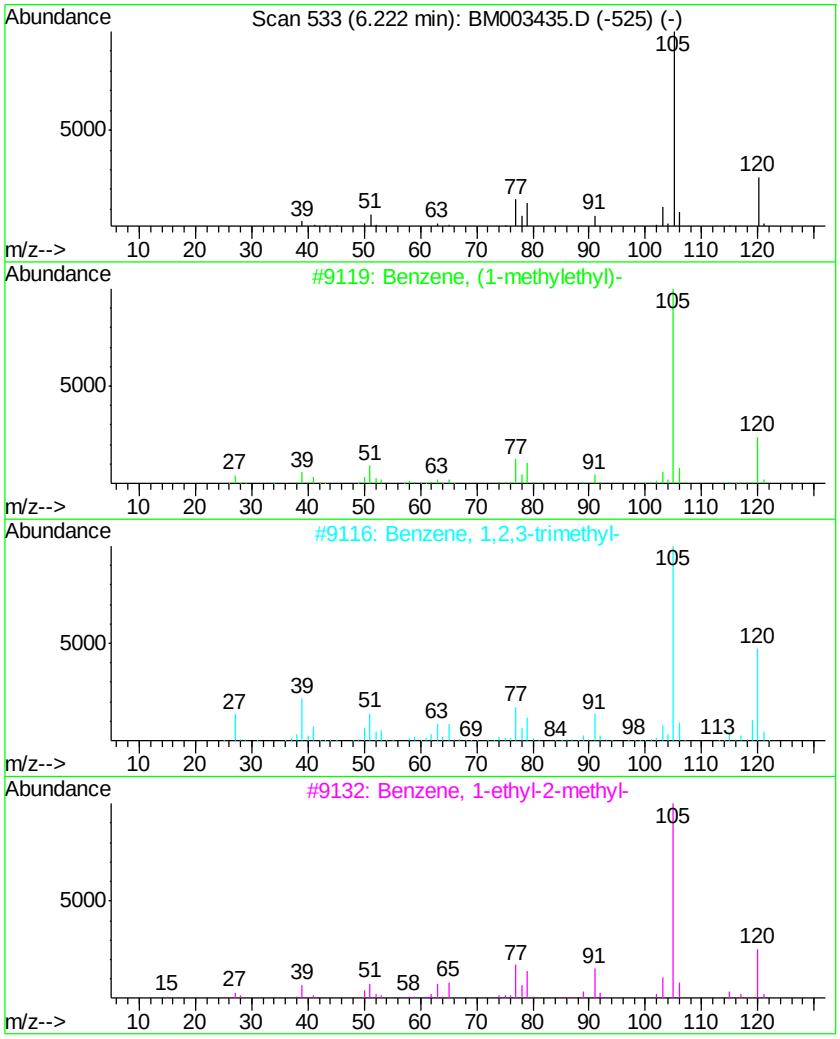
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

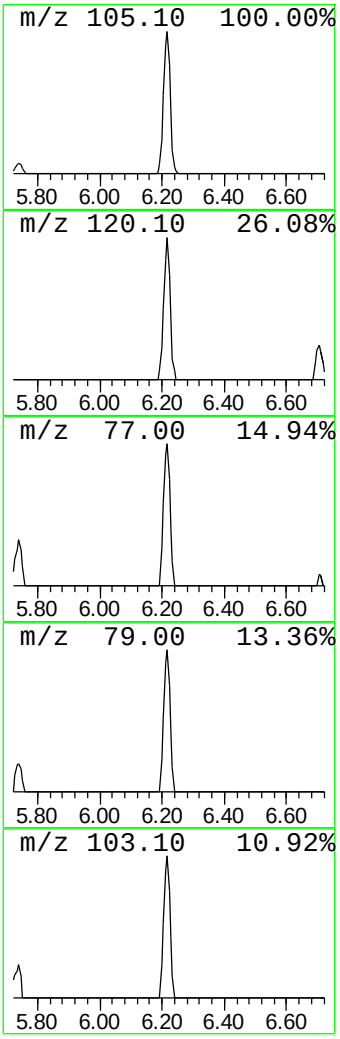
**********

Peak Number 3 Benzene, (1-methylethyl)- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.22 | 4.28 ng | 91003 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 94 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 90 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 86 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

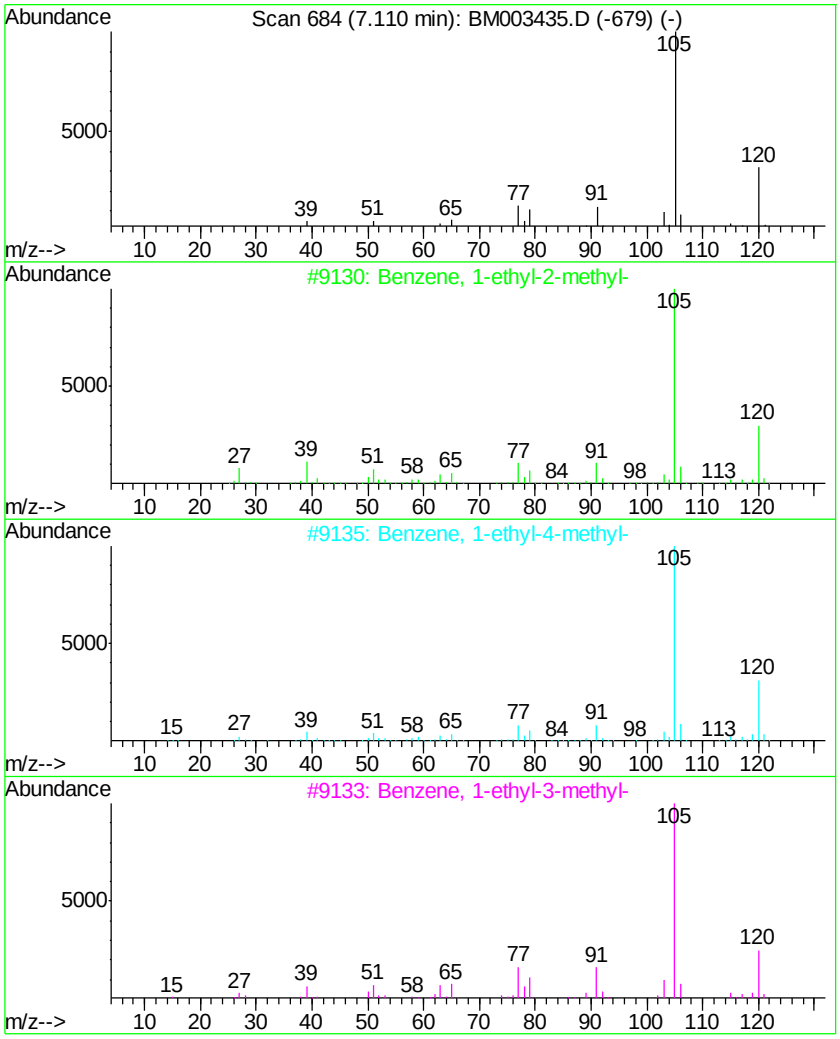
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

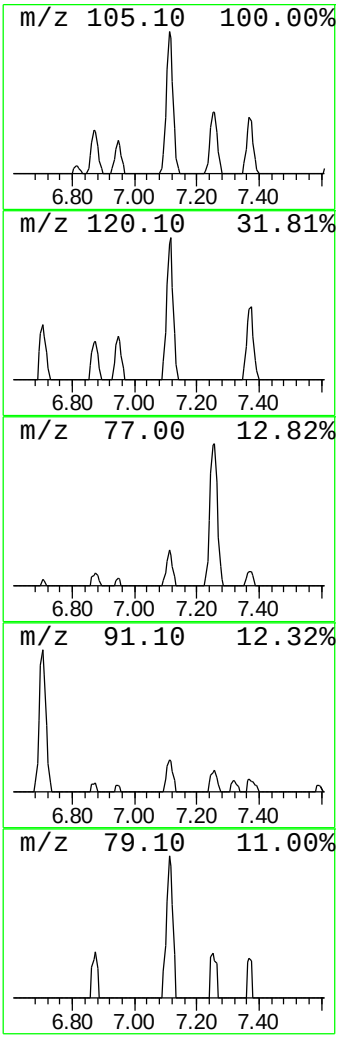
**********

Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.11 | 2.27 ng | 48307 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

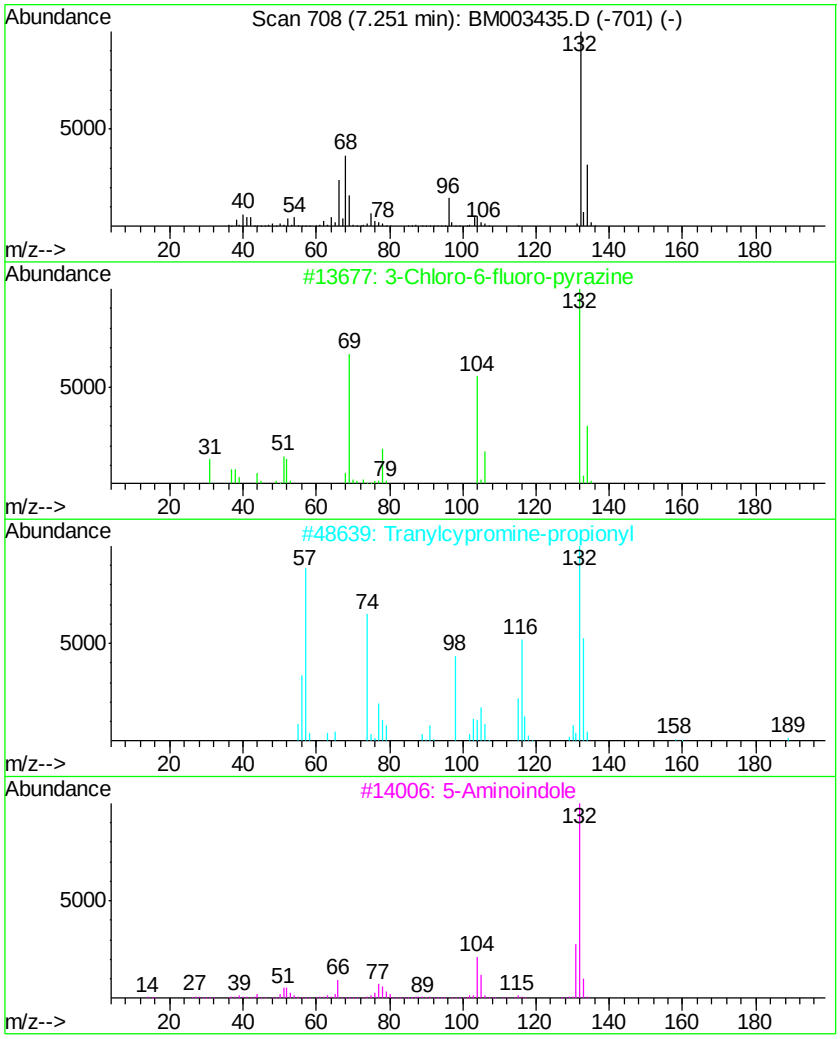
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

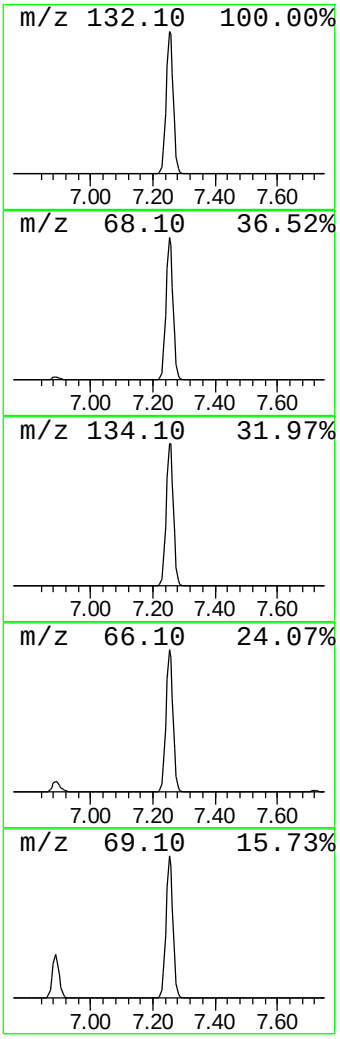
**********

Peak Number 5 unknown7.25 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.25 | 80.59 ng | 1715050 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

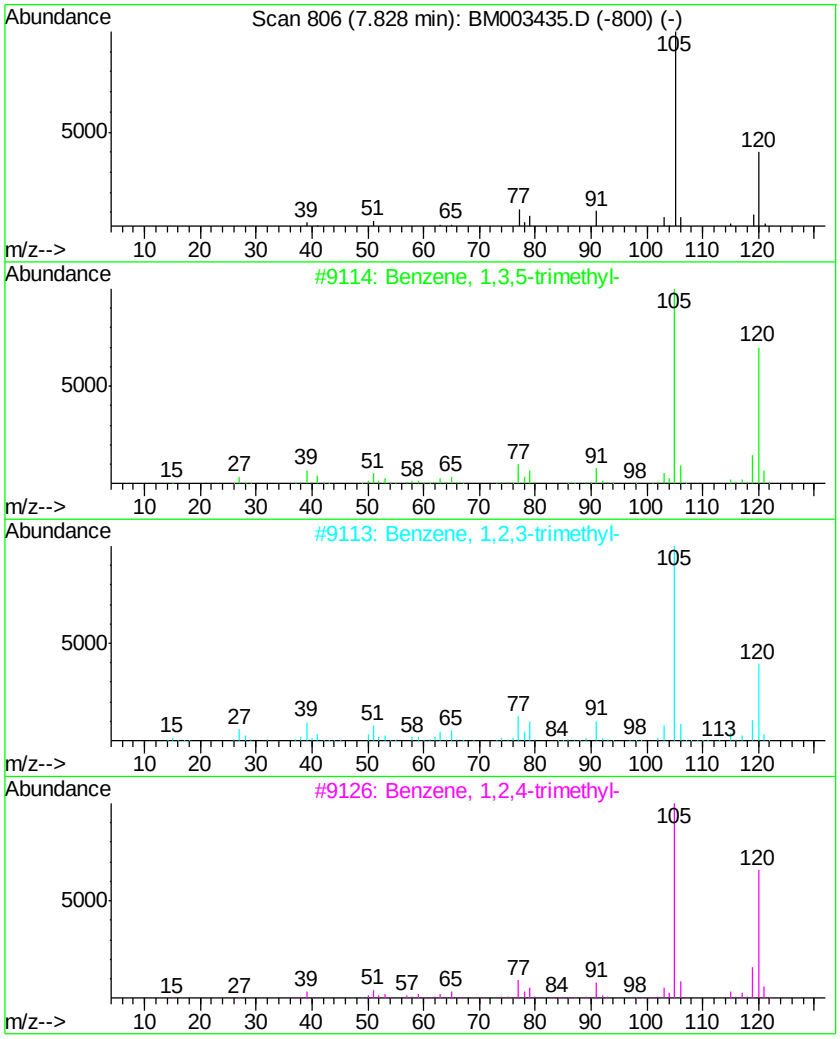
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

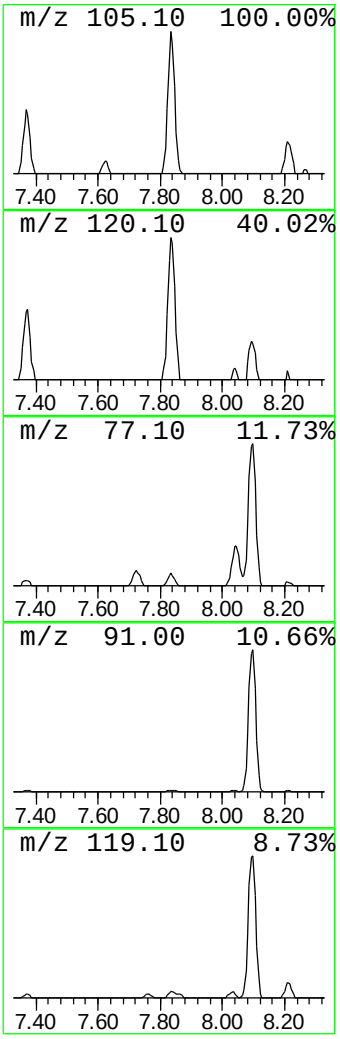
**********

Peak Number 6 Benzene, 1,3,5-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.83 | 2.25 ng | 47851 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 91 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 87 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

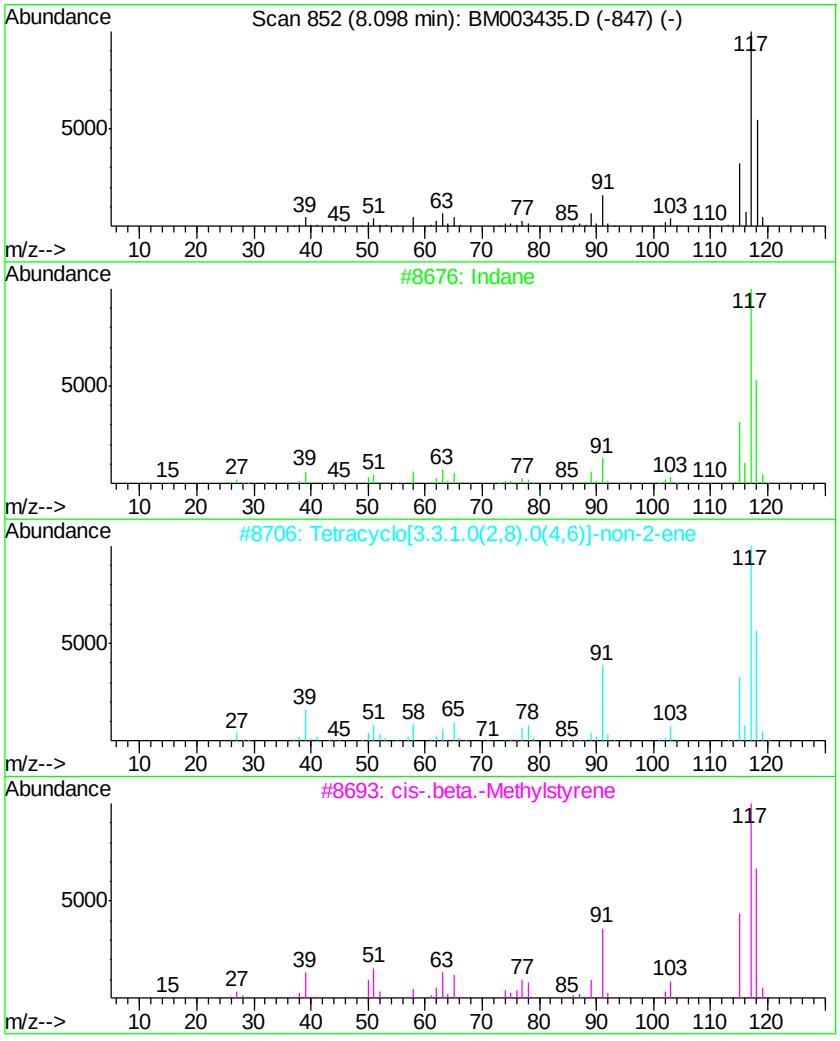
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

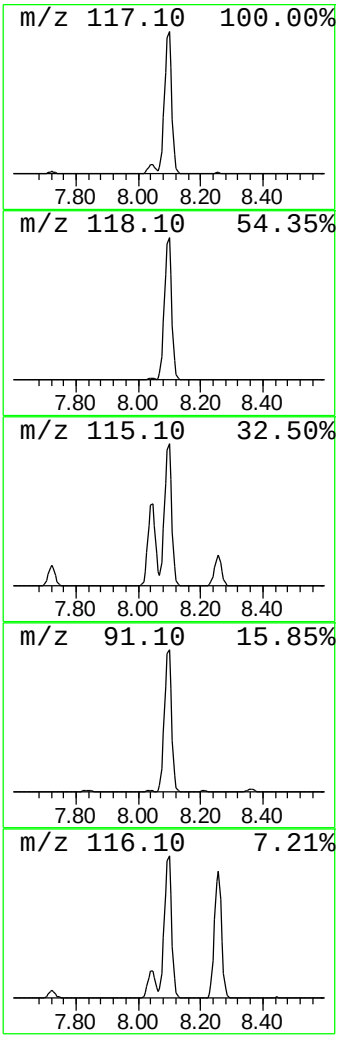
**********

Peak Number 8 Indane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.10 | 128.88 ng | 2742540 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 83 |
| 3 | cis-.beta.-Methylstyrene | 118 | C9H10 | 000766-90-5 | 72 |
| 4 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 59 |
| 5 | Benzeneethanol, .beta.-ethenyl- | 148 | C10H12O | 006052-63-7 | 53 |



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Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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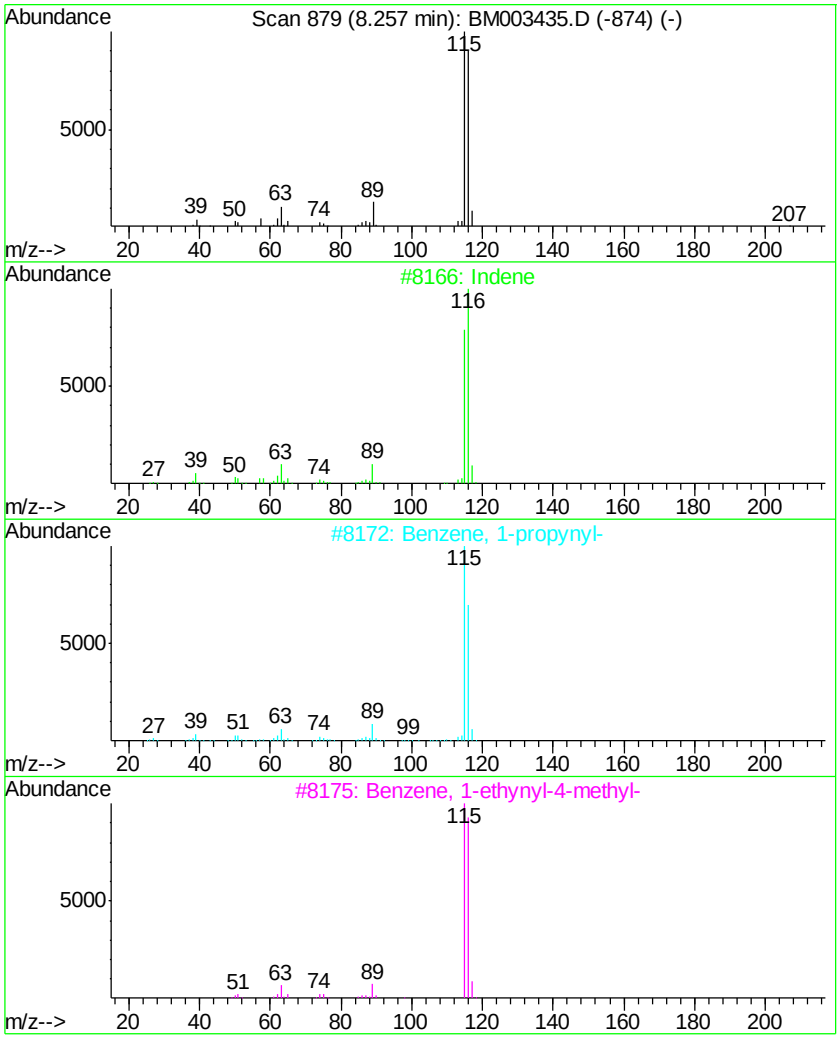
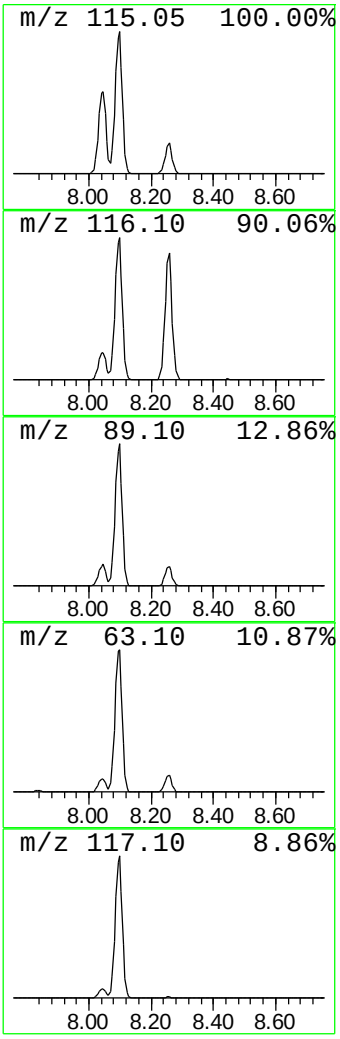
Peak Number 9 Indene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.26 | 8.65 ng | 184013 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 95 |
| 2 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 94 |
| 3 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 91 |
| 4 | Benzene,1-ethynyl-2-methyl- | 116 | C9H8 | 000766-47-2 | 90 |
| 5 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 90 |



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Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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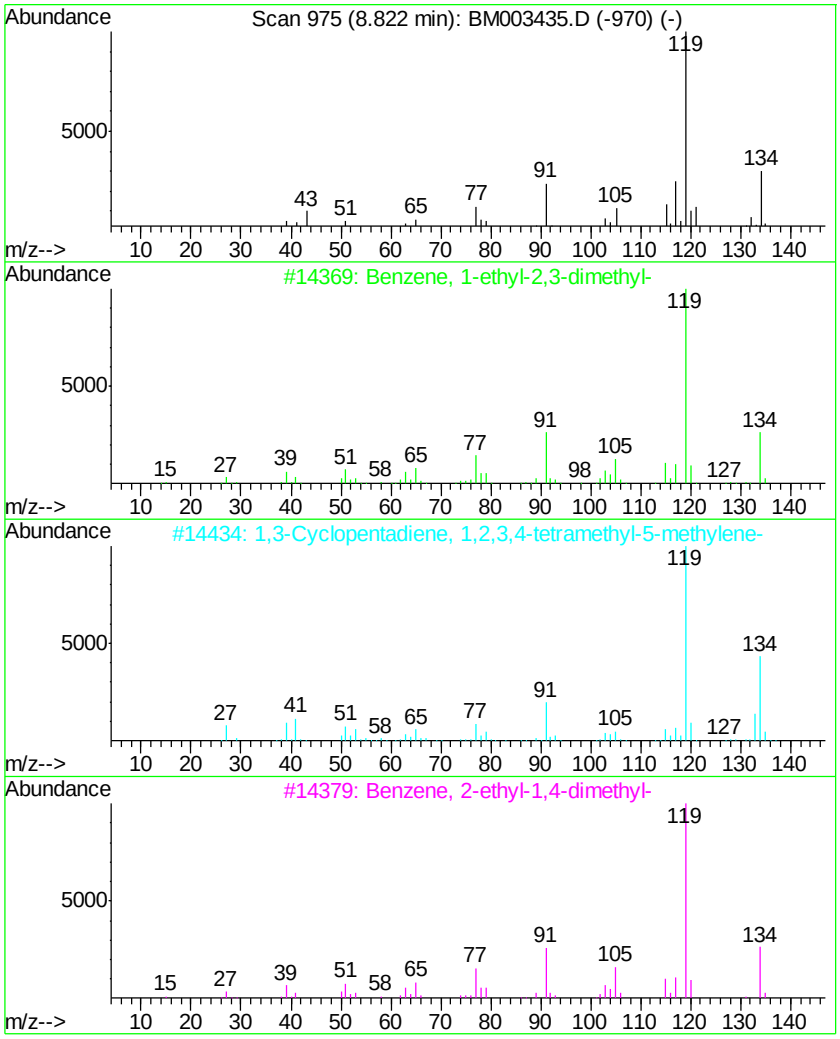
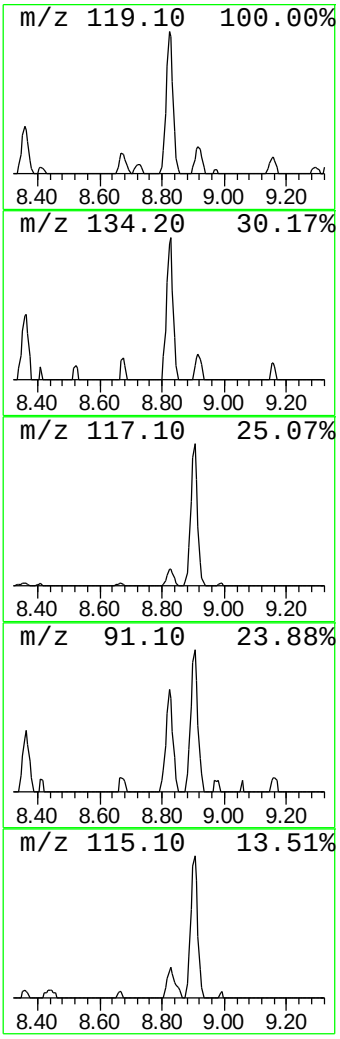
Peak Number 10 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.82 | 2.98 ng | 63488 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 93 |
| 2 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 81 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 81 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 81 |
| 5 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 81 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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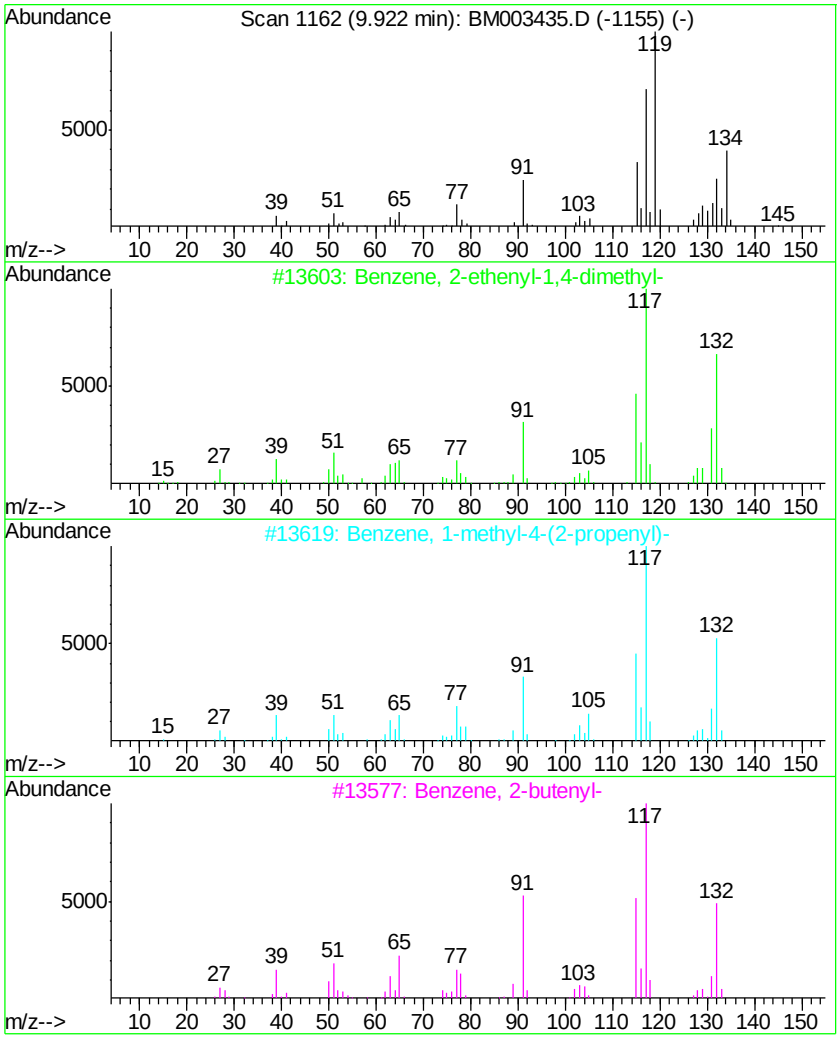
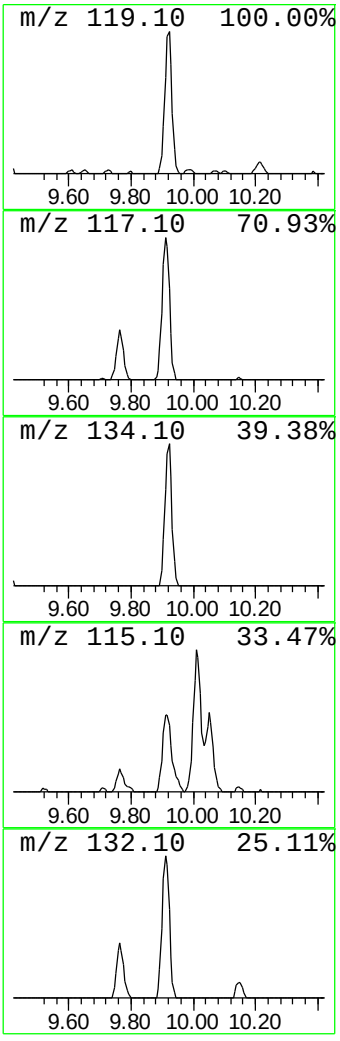
Peak Number 11 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.92 | 6.86 ng | 244068 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 70 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 64 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 50 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 50 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 50 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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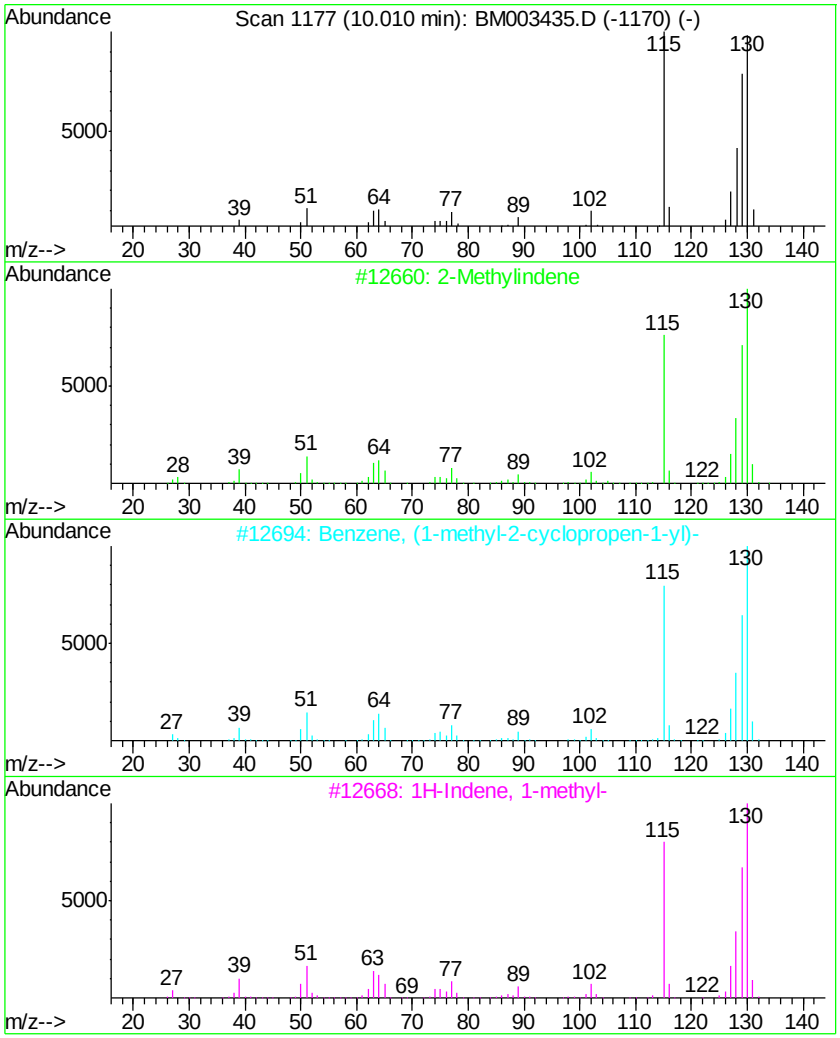
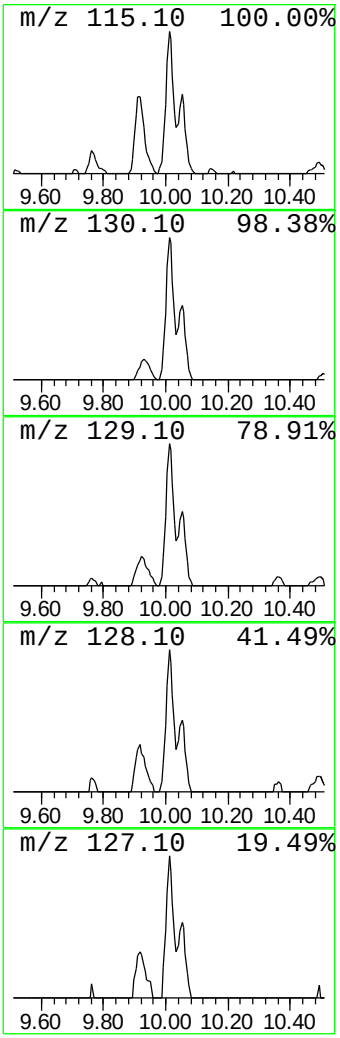
Peak Number 12 2-Methylindene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.01 | 3.91 ng | 139143 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 95 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 95 |
| 3 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 95 |
| 4 | 1,4-Dihydronaphthalene | 130 | C10H10 | 000612-17-9 | 93 |
| 5 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 93 |



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Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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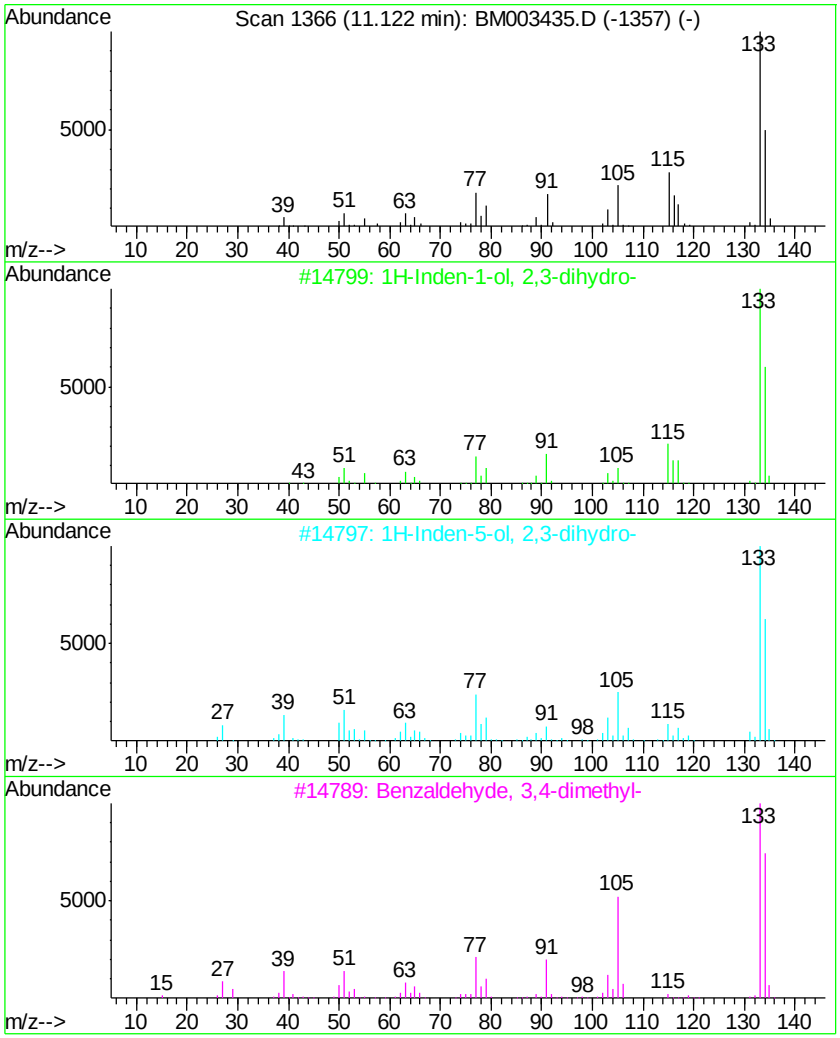
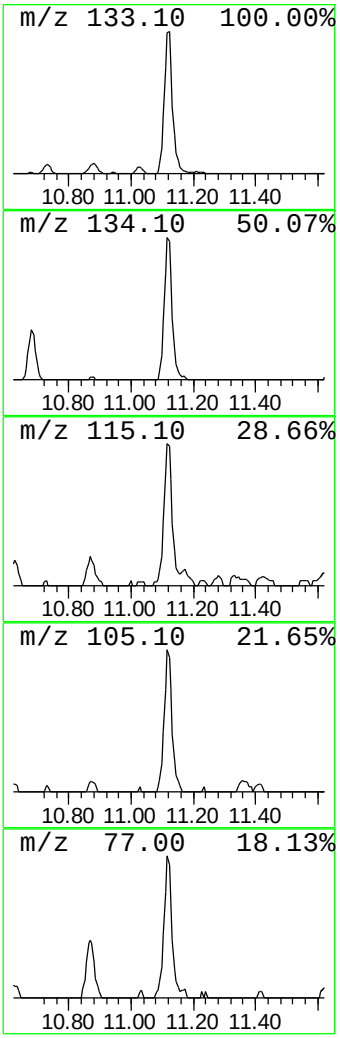
Peak Number 13 1H-Inden-1-ol, 2,3-dihydro- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.12 | 7.12 ng | 253643 | Naphthalene-d8 | 10.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-ol, 2,3-dihydro- | 134 | C9H10O | 006351-10-6 | 93 |
| 2 | 1H-Inden-5-ol, 2,3-dihydro- | 134 | C9H10O | 001470-94-6 | 72 |
| 3 | Benzaldehyde, 3,4-dimethyl- | 134 | C9H10O | 005973-71-7 | 70 |
| 4 | Pyrazine, 2-methyl-6-(1-propenyl... | 134 | C8H10N2 | 018217-81-7 | 47 |
| 5 | Butanoic acid, 4-(3-ethylphenyl)... | 206 | C12H14O3 | 017503-46-7 | 47 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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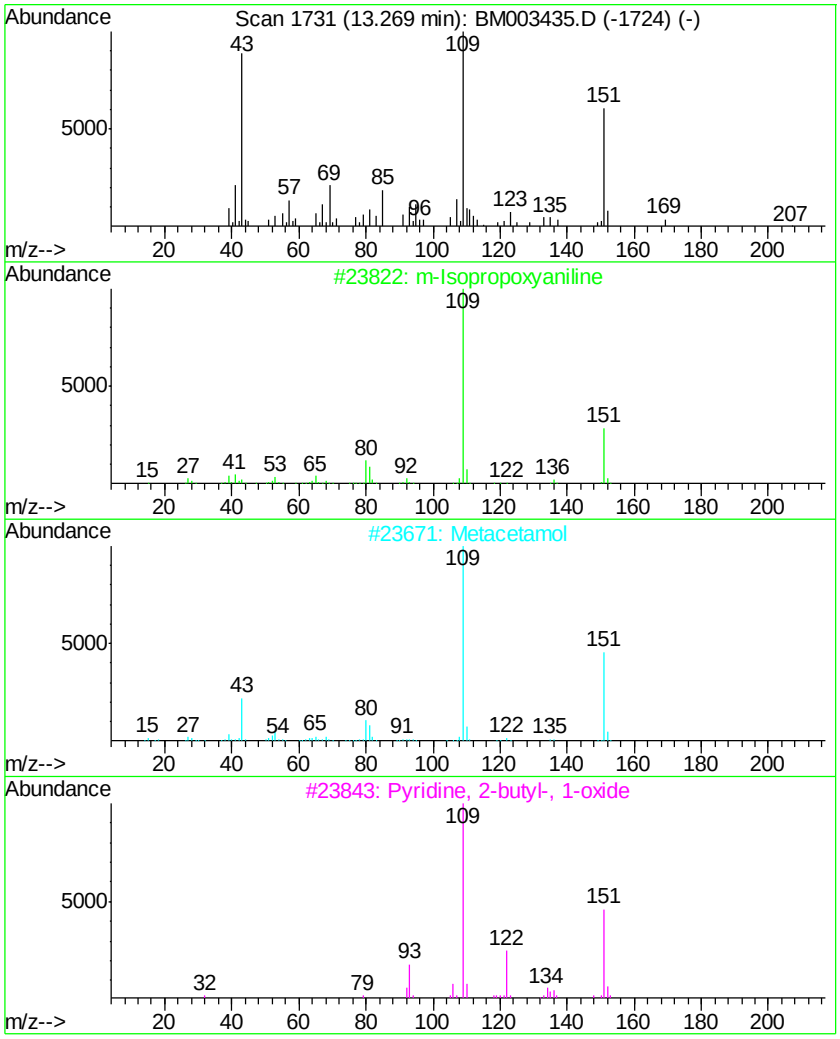
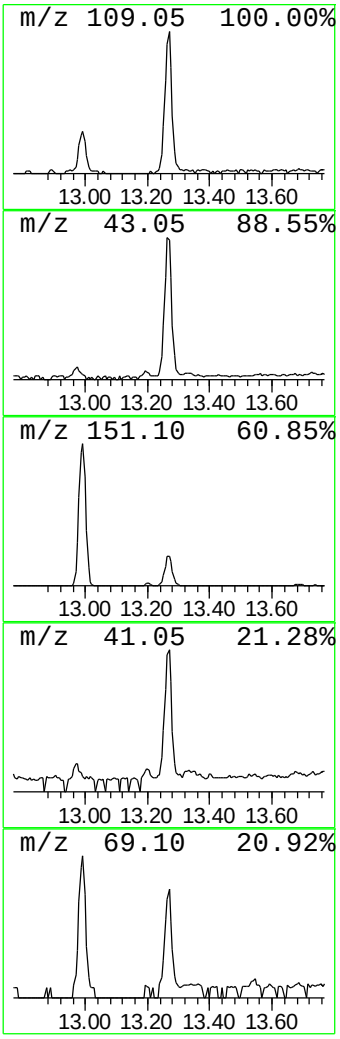
Peak Number 15 m-Isopropoxyaniline Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.27 | 2.81 ng | 144493 | Acenaphthene-d10 | 14.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | m-Isopropoxyaniline | 151 | C9H13NO | 041406-00-2 | 64 |
| 2 | Metacetamol | 151 | C8H9NO2 | 000621-42-1 | 64 |
| 3 | Pyridine, 2-butyl-, 1-oxide | 151 | C9H13NO | 031396-32-4 | 59 |
| 4 | Butanamide, N-acetyl-N-(4-hydrox... | 221 | C12H15NO3 | 1000107-08-7 | 59 |
| 5 | 1-(1,2,3-Trimethyl-cyclopent-2-e... | 152 | C10H16O | 070987-81-4 | 43 |



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Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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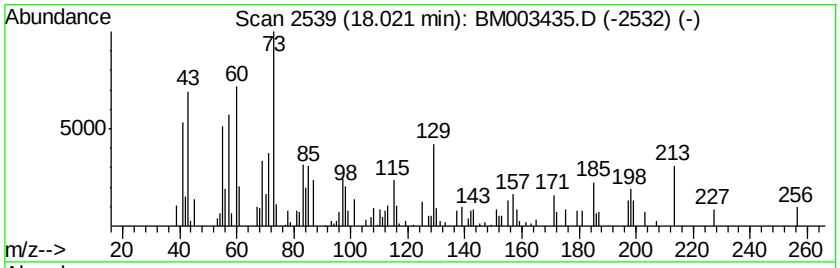
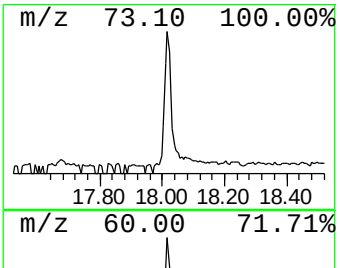
Peak Number 16 n-Decanoic acid Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.02 | 2.34 ng | 128534 | Phenanthrene-d10 | 17.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 3 | 3,5-Difluorobenzaldehyde carbamo... | 199 | C8H7F2N3O | 163893-49-0 | 25 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 25 |
| 5 | Undecane, 2,3-dimethyl- | 184 | C13H28 | 017312-77-5 | 10 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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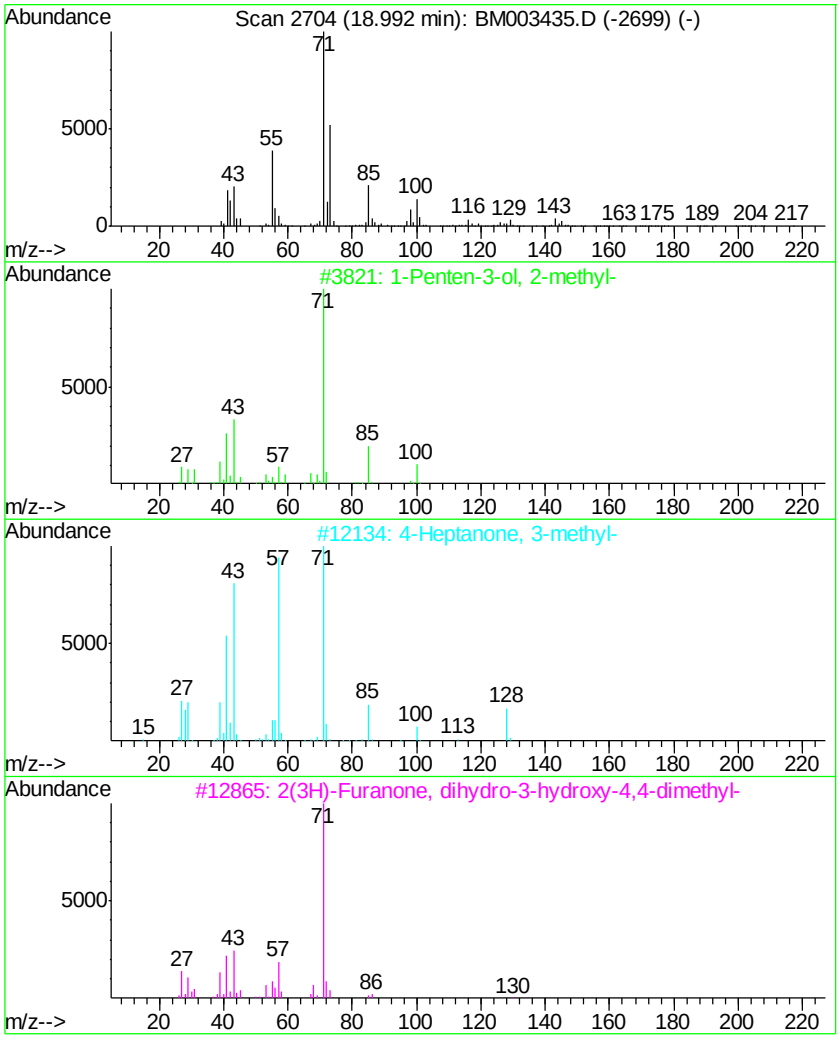
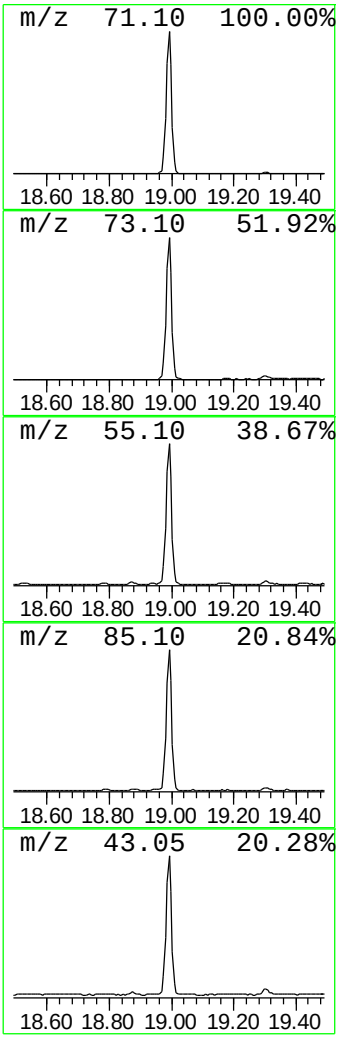
Peak Number 17 1-Penten-3-ol, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.99 | 22.12 ng | 1214840 | Phenanthrene-d10 | 17.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Penten-3-ol, 2-methyl- | 100 | C6H12O | 002088-07-5 | 64 |
| 2 | 4-Heptanone, 3-methyl- | 128 | C8H16O | 015726-15-5 | 45 |
| 3 | 2(3H)-Furanone, dihydro-3-hydrox... | 130 | C6H10O3 | 052126-90-6 | 40 |
| 4 | Silane, ethenyldiethylmethyl- | 128 | C7H16Si | 018292-29-0 | 38 |
| 5 | Furan, 2-butyltetrahydro- | 128 | C8H16O | 001004-29-1 | 37 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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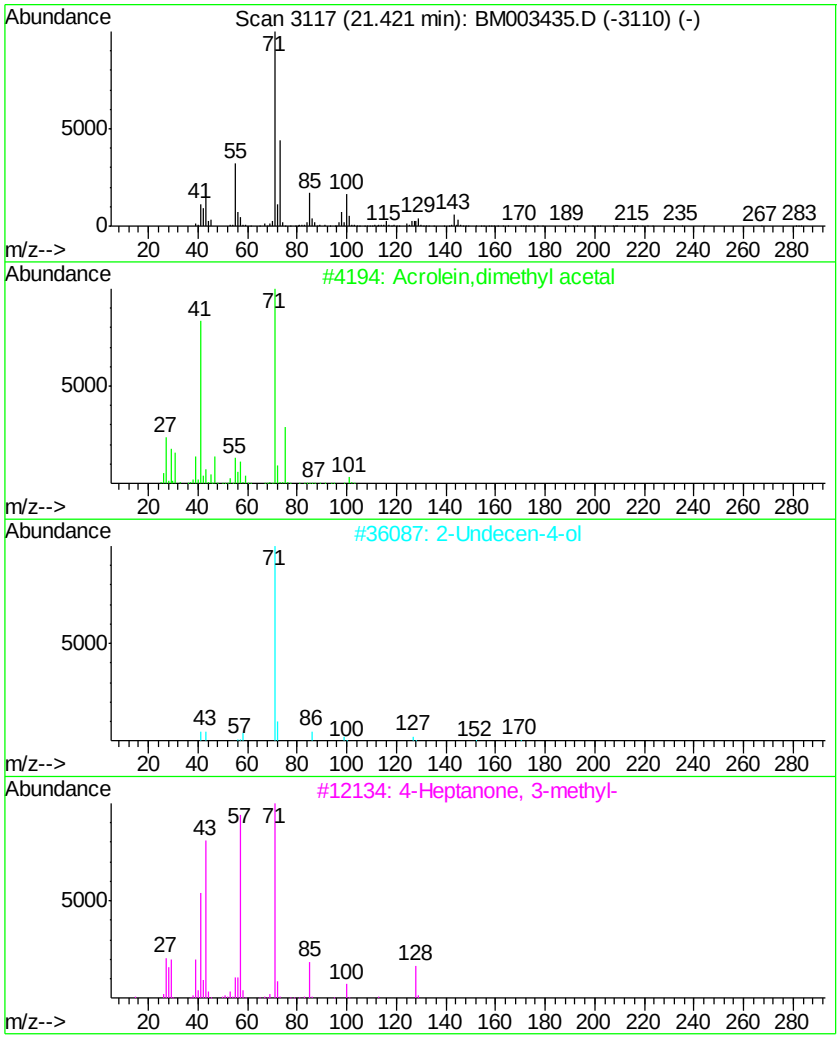
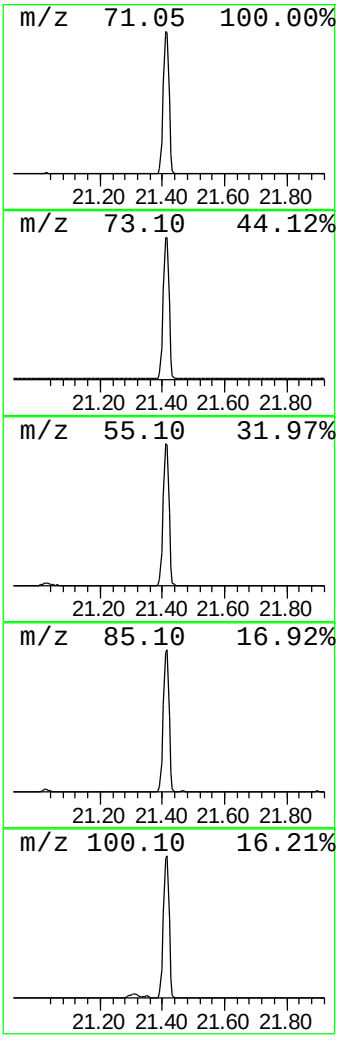
Peak Number 18 Acrolein,dimethyl acetal Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.42 | 44.83 ng | 2708920 | Chrysene-d12 | 21.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acrolein,dimethyl acetal | 102 | C5H10O2 | 006044-68-4 | 50 |
| 2 | 2-Undecen-4-ol | 170 | C11H22O | 022381-86-8 | 50 |
| 3 | 4-Heptanone, 3-methyl- | 128 | C8H16O | 015726-15-5 | 42 |
| 4 | 2(3H)-Furanone, dihydro-3-hydrox... | 130 | C6H10O3 | 052126-90-6 | 40 |
| 5 | 1-Propene, 3-methoxy-2-methyl- | 86 | C5H10O | 022418-49-1 | 40 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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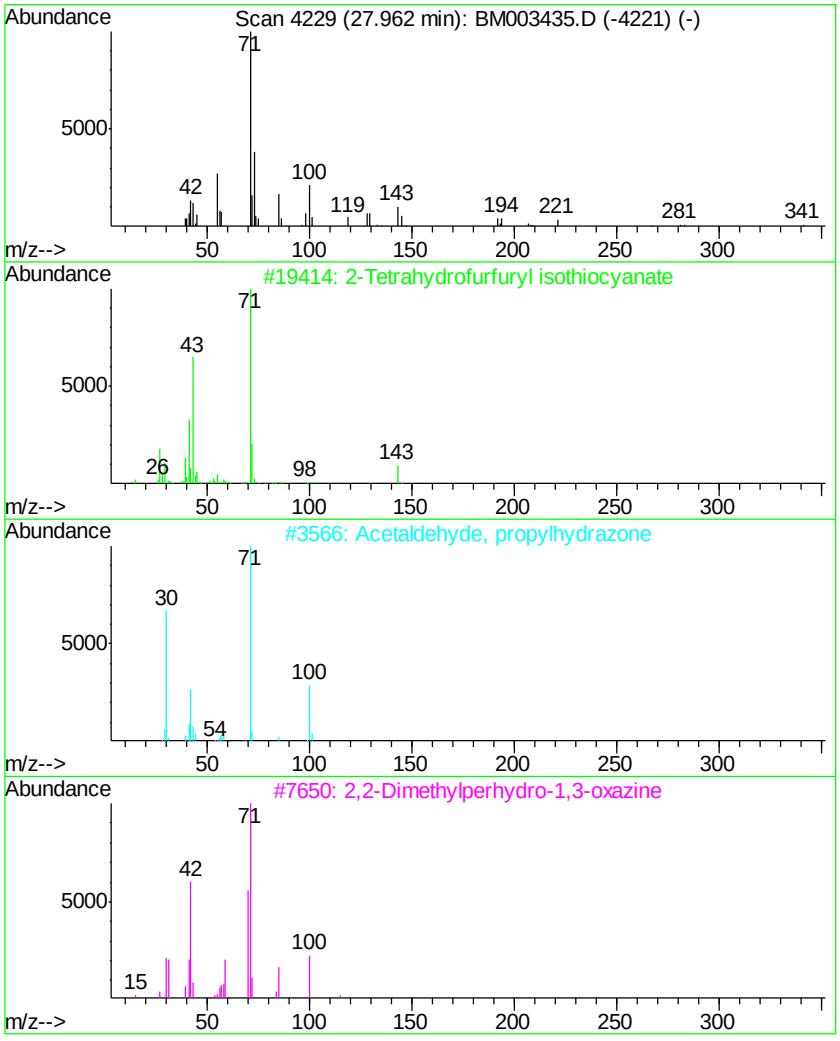
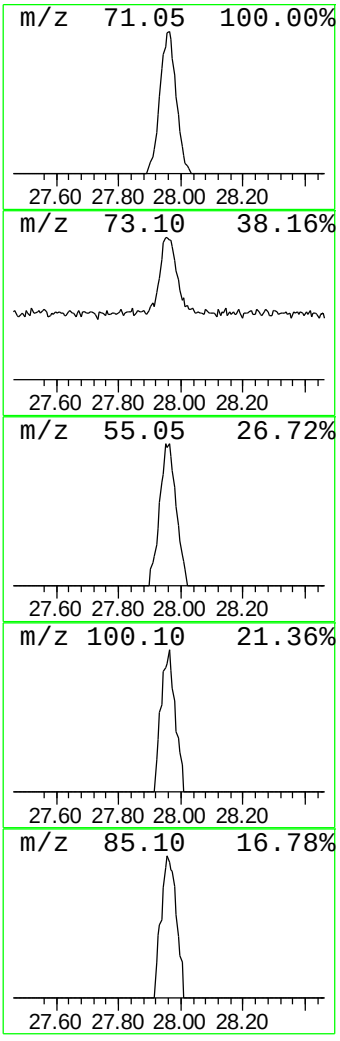
Peak Number 20 2-Tetrahydrofurfuryl isothi... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 27.96 | 2.24 ng | 103700 | Perylene-d12 | 23.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Tetrahydrofurfuryl isothiocyanate | 143 | C6H9NOS | 036810-87-4 | 50 |
| 2 | Acetaldehyde, propylhydrazone | 100 | C5H12N2 | 007422-88-0 | 40 |
| 3 | 2,2-Dimethylperhydro-1,3-oxazine | 115 | C6H13NO | 073155-29-0 | 38 |
| 4 | Oxirane, 2,2'-[1,4-butanediylbis... | 202 | C10H18O4 | 002425-79-8 | 36 |
| 5 | Methylamine, N-(1-methylheptylid... | 141 | C9H19N | 018641-72-0 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120915\
Data File : BM003435.D
Acq On : 10 Dec 2015 04:42
Operator : UM/IZ
Sample : G4681-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** 20151130-MGP214-BRV114

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Formamide, N,N-di... | 3.99 | 4.8 | ng | 101628 | 1 | 7.72 | 425597 | 20.0 |
| 2-Pentanone, 4-hy... | 4.84 | 4.3 | ng | 91008 | 1 | 7.72 | 425597 | 20.0 |
| Benzene, (1-methy... | 6.22 | 4.3 | ng | 91003 | 1 | 7.72 | 425597 | 20.0 |
| Benzene, 1-ethyl-... | 7.11 | 2.3 | ng | 48307 | 1 | 7.72 | 425597 | 20.0 |
| unknown7.25 | 7.25 | 80.6 | ng | 1715050 | 1 | 7.72 | 425597 | 20.0 |
| Benzene, 1,3,5-tr... | 7.83 | 2.3 | ng | 47851 | 1 | 7.72 | 425597 | 20.0 |
| Indane | 8.10 | 128.9 | ng | 2742540 | 1 | 7.72 | 425597 | 20.0 |
| Indene | 8.26 | 8.7 | ng | 184013 | 1 | 7.72 | 425597 | 20.0 |
| Benzene, 1-ethyl-... | 8.82 | 3.0 | ng | 63488 | 1 | 7.72 | 425597 | 20.0 |
| Benzene, 2-etheny... | 9.92 | 6.9 | ng | 244068 | 2 | 10.51 | 712010 | 20.0 |
| 2-Methylindene | 10.01 | 3.9 | ng | 139143 | 2 | 10.51 | 712010 | 20.0 |
| 1H-Inden-1-ol, 2,... | 11.12 | 7.1 | ng | 253643 | 2 | 10.51 | 712010 | 20.0 |
| m-Isopropoxyaniline | 13.27 | 2.8 | ng | 144493 | 3 | 14.37 | 1027730 | 20.0 |
| n-Decanoic acid | 18.02 | 2.3 | ng | 128534 | 4 | 17.12 | 1098540 | 20.0 |
| 1-Penten-3-ol, 2-... | 18.99 | 22.1 | ng | 1214840 | 4 | 17.12 | 1098540 | 20.0 |
| Acrolein,dimethyl... | 21.42 | 44.8 | ng | 2708920 | 5 | 21.32 | 1208480 | 20.0 |
| 2-Tetrahydrofurfu... | 27.96 | 2.2 | ng | 103700 | 6 | 23.57 | 925470 | 20.0 |