LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

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\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.581 | 79 | 84 | 95 | rVB | 2321503 | 2808339 | 2.35% | 1.194% |
| 2 | 3.981 | 144 | 152 | 175 | rVB3 | 73241585 | 119682357 | 100.00% | 50.899% |
| 3 | 5.069 | 330 | 337 | 348 | rVB | 2624501 | 3864440 | 3.23% | 1.643% |
| 4 | 5.263 | 361 | 370 | 378 | rVB | 10168021 | 14427174 | 12.05% | 6.136% |
| 5 | 5.393 | 384 | 392 | 401 | rBV | 16263256 | 30399063 | 25.40% | 12.928% |
| 6 | 5.751 | 445 | 453 | 464 | rVB | 7536410 | 10910407 | 9.12% | 4.640% |
| 7 | 6.816 | 627 | 634 | 639 | rBV | 1046791 | 1548990 | 1.29% | 0.659% |
| 8 | 6.875 | 639 | 644 | 649 | rVV | 945159 | 1466529 | 1.23% | 0.624% |
| 9 | 7.181 | 692 | 696 | 704 | rVB | 2052243 | 2987189 | 2.50% | 1.270% |
| 10 | 7.369 | 718 | 728 | 734 | rVB2 | 2298198 | 4588740 | 3.83% | 1.952% |
| 11 | 7.710 | 773 | 786 | 791 | rBV2 | 705143 | 1628989 | 1.36% | 0.693% |
| 12 | 8.145 | 854 | 860 | 866 | rBV | 4451281 | 7103512 | 5.94% | 3.021% |
| 13 | 8.345 | 884 | 894 | 901 | rVB | 5084046 | 7757107 | 6.48% | 3.299% |
| 14 | 8.481 | 910 | 917 | 923 | rBV | 721066 | 1320100 | 1.10% | 0.561% |
| 15 | 9.034 | 1004 | 1011 | 1020 | rVB2 | 1399757 | 2772095 | 2.32% | 1.179% |
| 16 | 10.498 | 1254 | 1260 | 1265 | rBV | 793773 | 1337321 | 1.12% | 0.569% |
| 17 | 11.580 | 1438 | 1444 | 1452 | rBV | 2340690 | 3827284 | 3.20% | 1.628% |
| 18 | 11.845 | 1480 | 1489 | 1496 | rBV | 819254 | 1552868 | 1.30% | 0.660% |
| 19 | 13.845 | 1823 | 1829 | 1835 | rVB | 791038 | 1219158 | 1.02% | 0.518% |
| 20 | 14.357 | 1909 | 1916 | 1921 | rBV2 | 1245007 | 2121171 | 1.77% | 0.902% |
| 21 | 15.368 | 2079 | 2088 | 2093 | rBV2 | 1329489 | 2404660 | 2.01% | 1.023% |
| 22 | 17.104 | 2378 | 2383 | 2393 | rVB2 | 1596333 | 2436263 | 2.04% | 1.036% |
| 23 | 18.298 | 2580 | 2586 | 2592 | rVB | 687774 | 1413123 | 1.18% | 0.601% |
| 24 | 21.286 | 3089 | 3094 | 3101 | rBV | 2382511 | 2855594 | 2.39% | 1.214% |
| 25 | 23.521 | 3467 | 3474 | 3481 | rVB | 1463447 | 2704469 | 2.26% | 1.150% |

Sum of corrected areas: 235136942

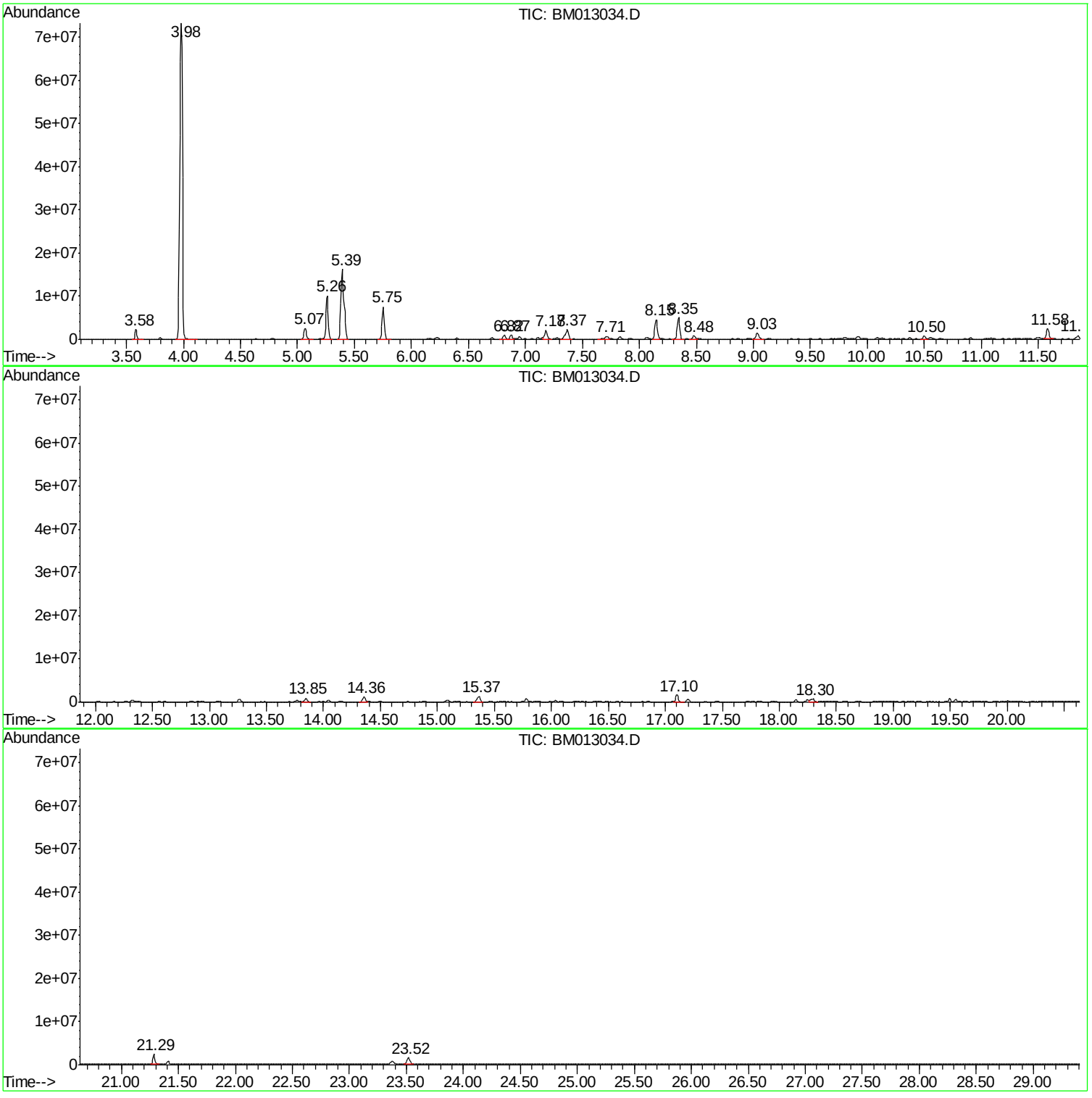
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

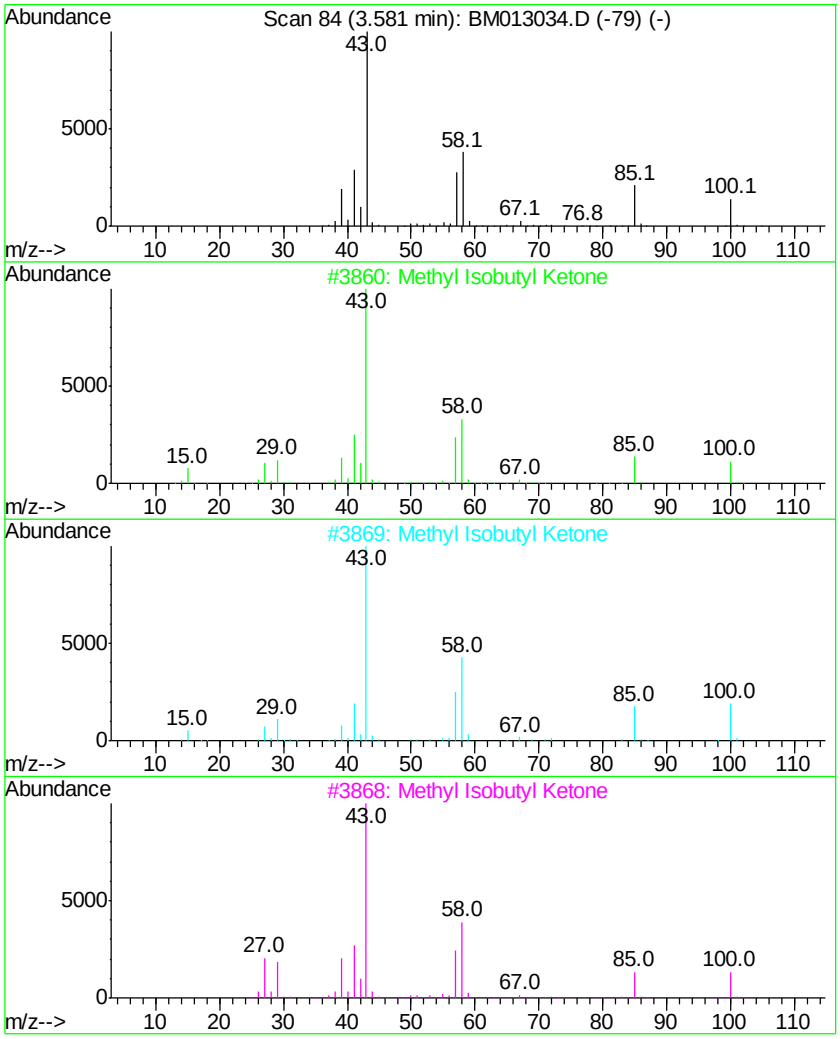
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

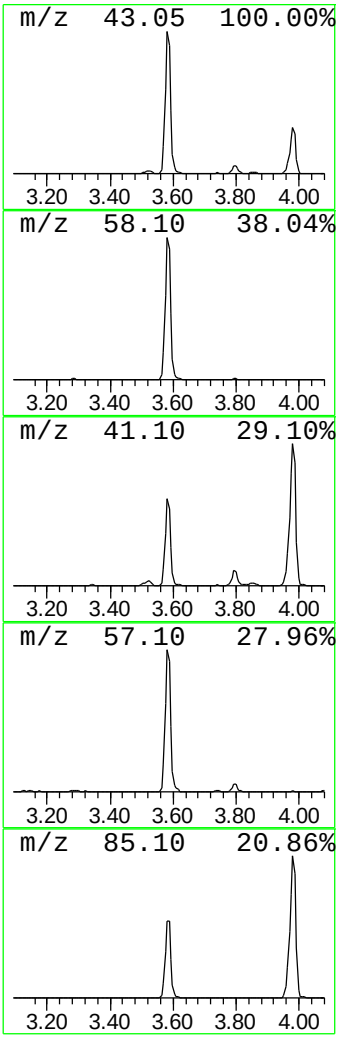
**********

Peak Number 1 Methyl Isobutyl Ketone Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.58 | 34.48 ng/ul | 2808340 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 90 |
| 2 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 80 |
| 3 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 72 |
| 4 | 2-Hexanone | 100 | C6H12O | 000591-78-6 | 58 |
| 5 | Acetylacetone | 100 | C5H8O2 | 000123-54-6 | 58 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

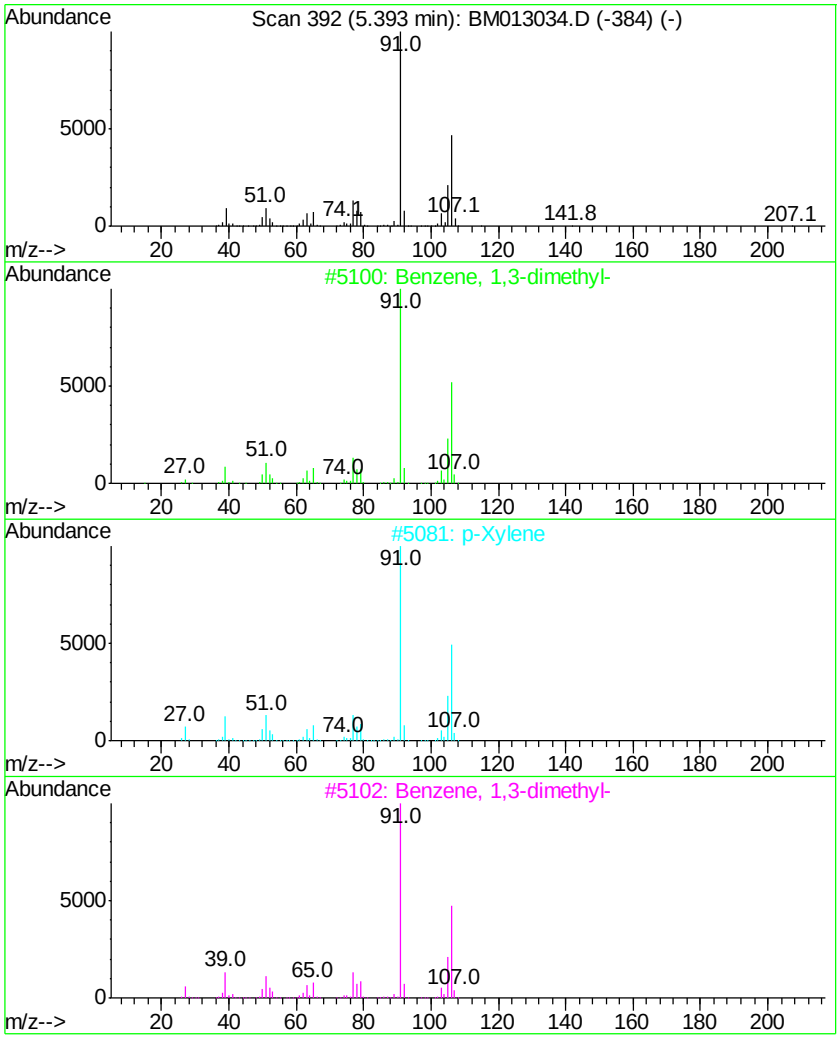
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

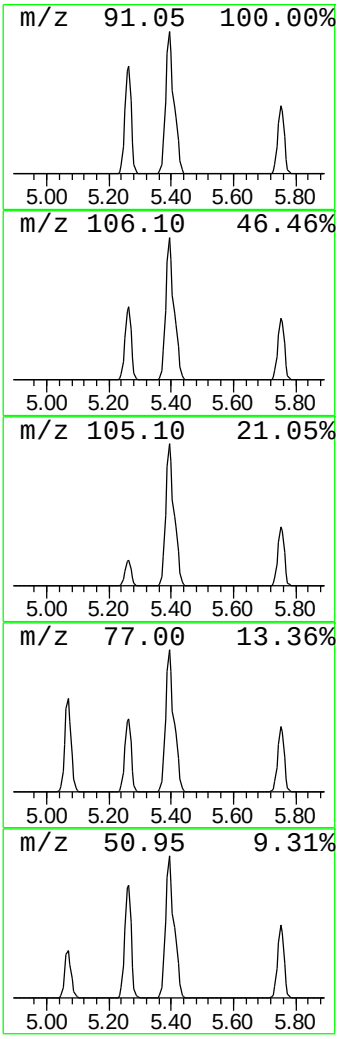
**********

Peak Number 5 Benzene, 1,3-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.39 | 373.23 ng/ul | 30399100 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 97 |
| 2 | p-Xylene | 106 | C8H10 | 000106-42-3 | 97 |
| 3 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 97 |
| 4 | o-Xylene | 106 | C8H10 | 000095-47-6 | 97 |
| 5 | p-Xylene | 106 | C8H10 | 000106-42-3 | 95 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

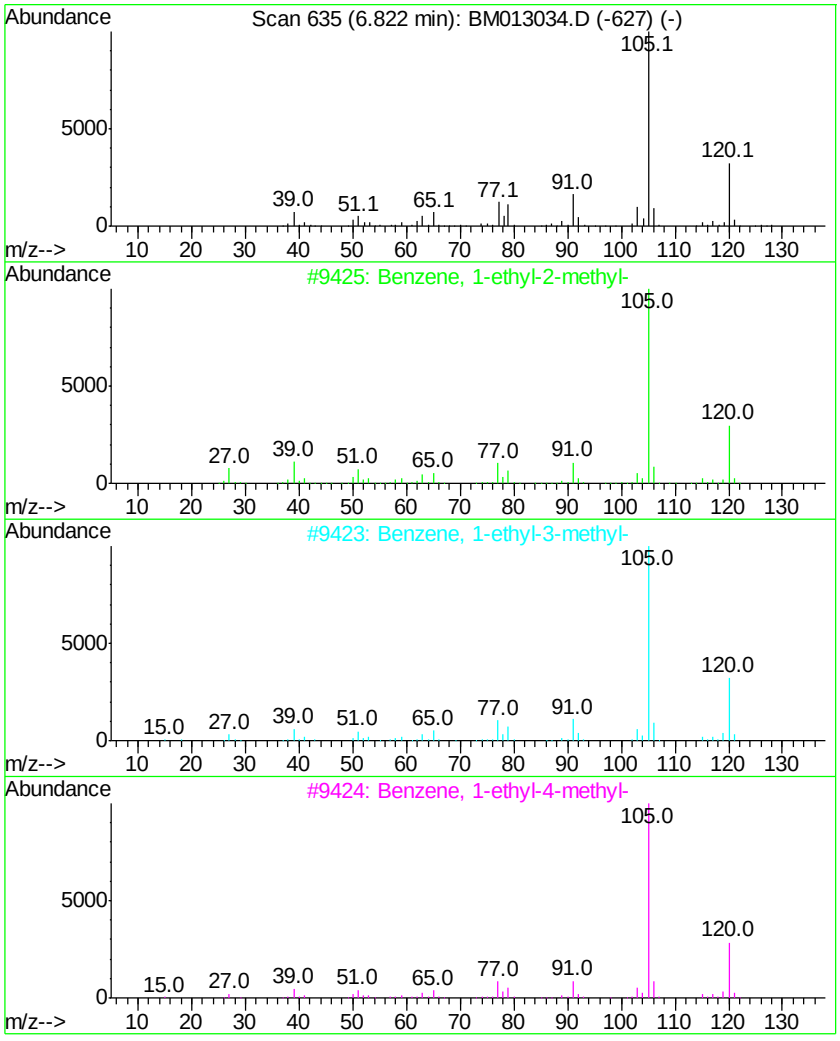
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

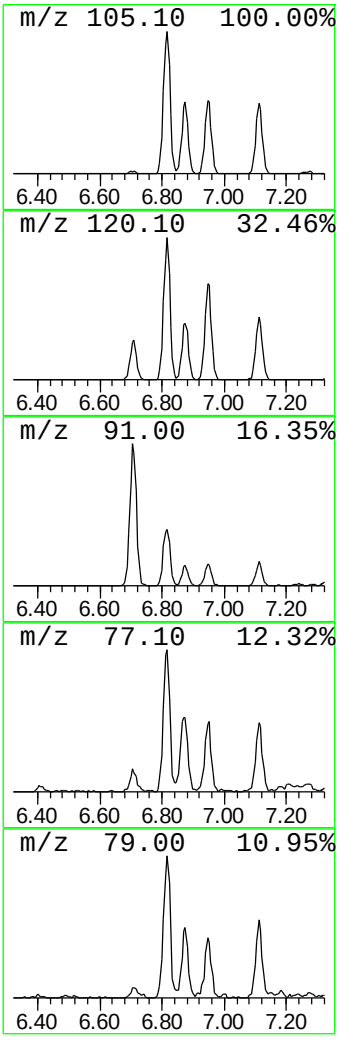
**********

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.82 | 19.02 ng/ul | 1548990 | 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-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

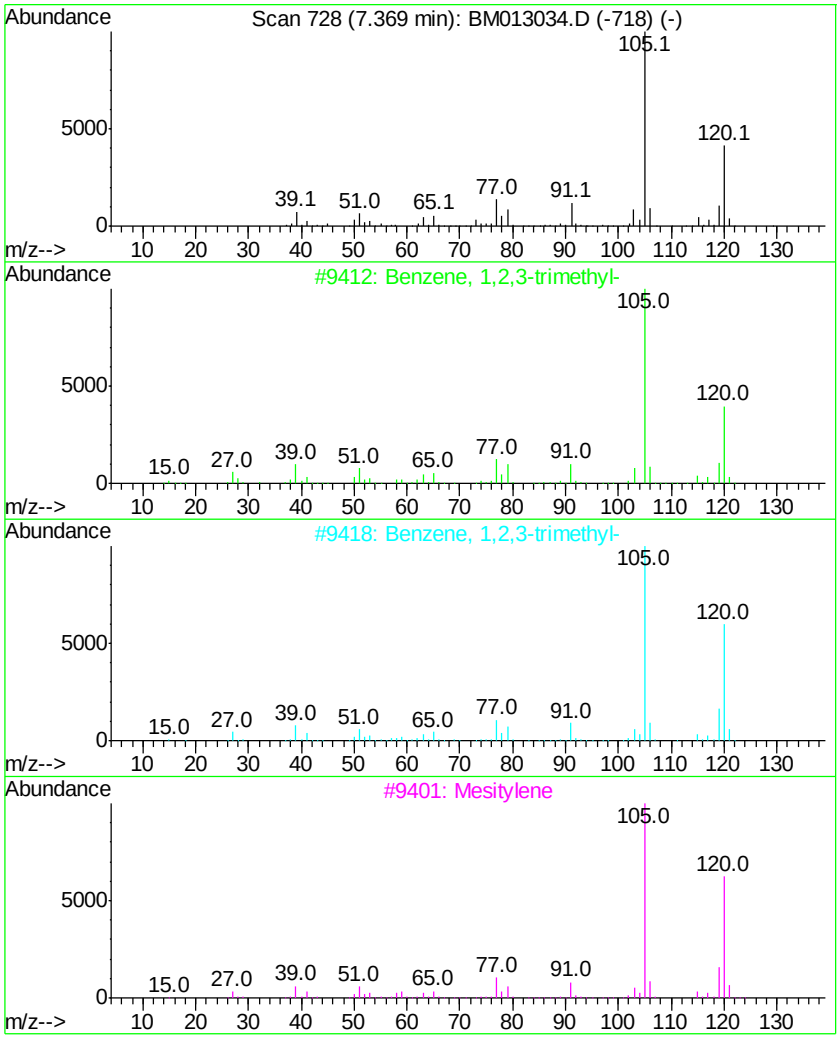
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

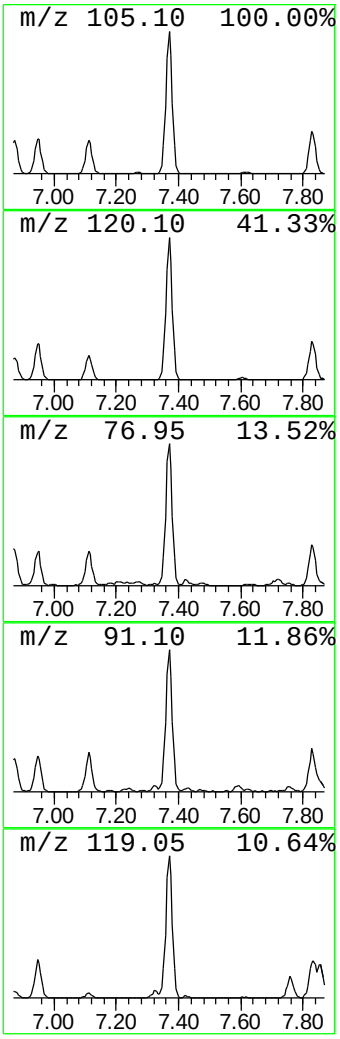
**********

Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.37 | 56.34 ng/ul | 4588740 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

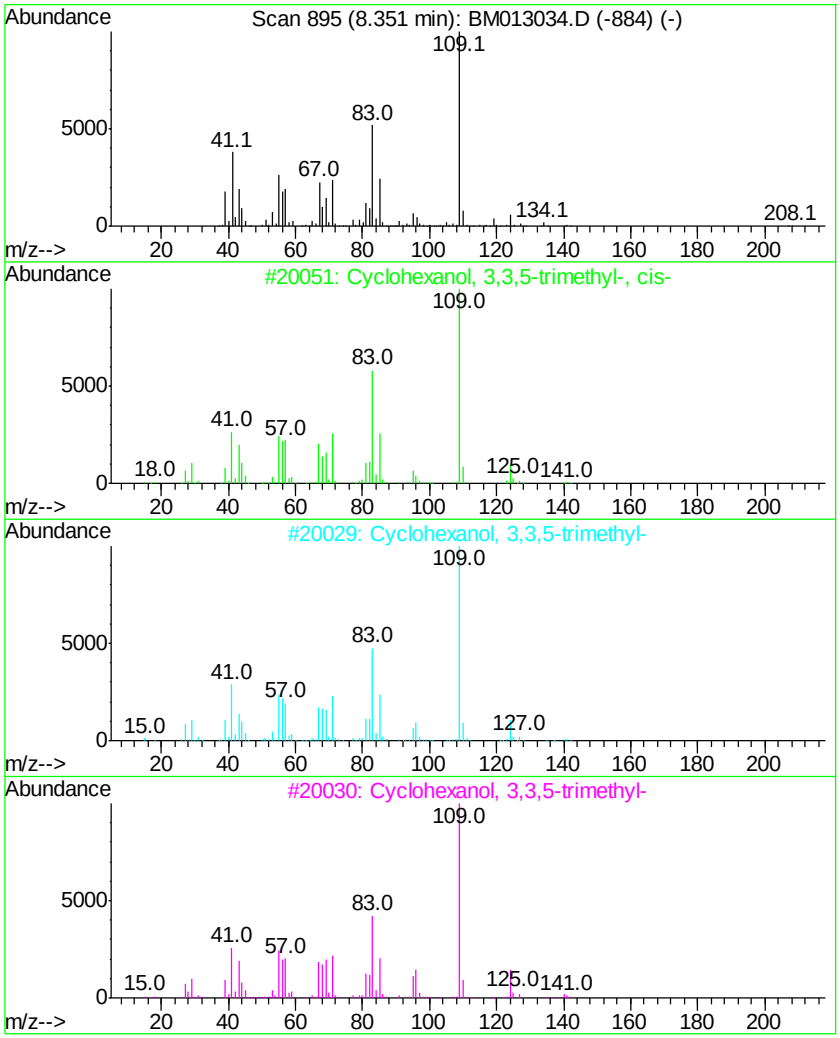
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

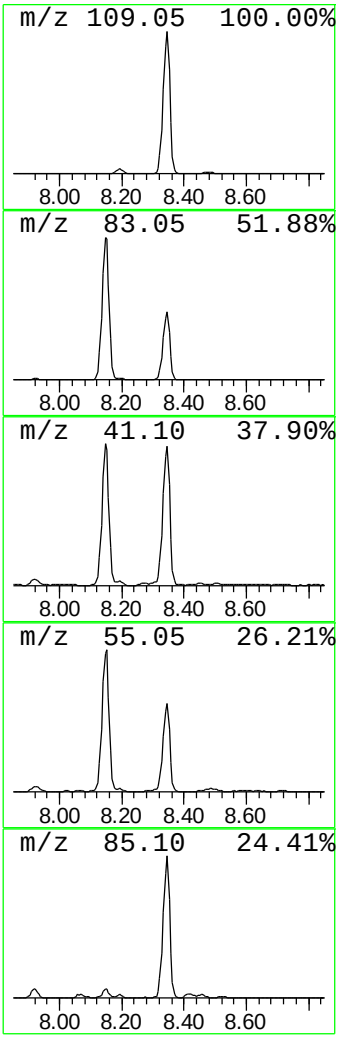
**********

Peak Number 9 Cyclohexanol, 3,3,5-trimeth... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.35 | 95.24 ng/ul | 7757110 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanol, 3,3,5-trimethyl-, ... | 142 | C9H18O | 000933-48-2 | 90 |
| 2 | Cyclohexanol, 3,3,5-trimethyl- | 142 | C9H18O | 000116-02-9 | 83 |
| 3 | Cyclohexanol, 3,3,5-trimethyl- | 142 | C9H18O | 000116-02-9 | 64 |
| 4 | Cyclohexanol, 3,3,5-trimethyl- | 142 | C9H18O | 000116-02-9 | 50 |
| 5 | Cyclohexanol, 3,3,5-trimethyl-, ... | 142 | C9H18O | 000767-54-4 | 38 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

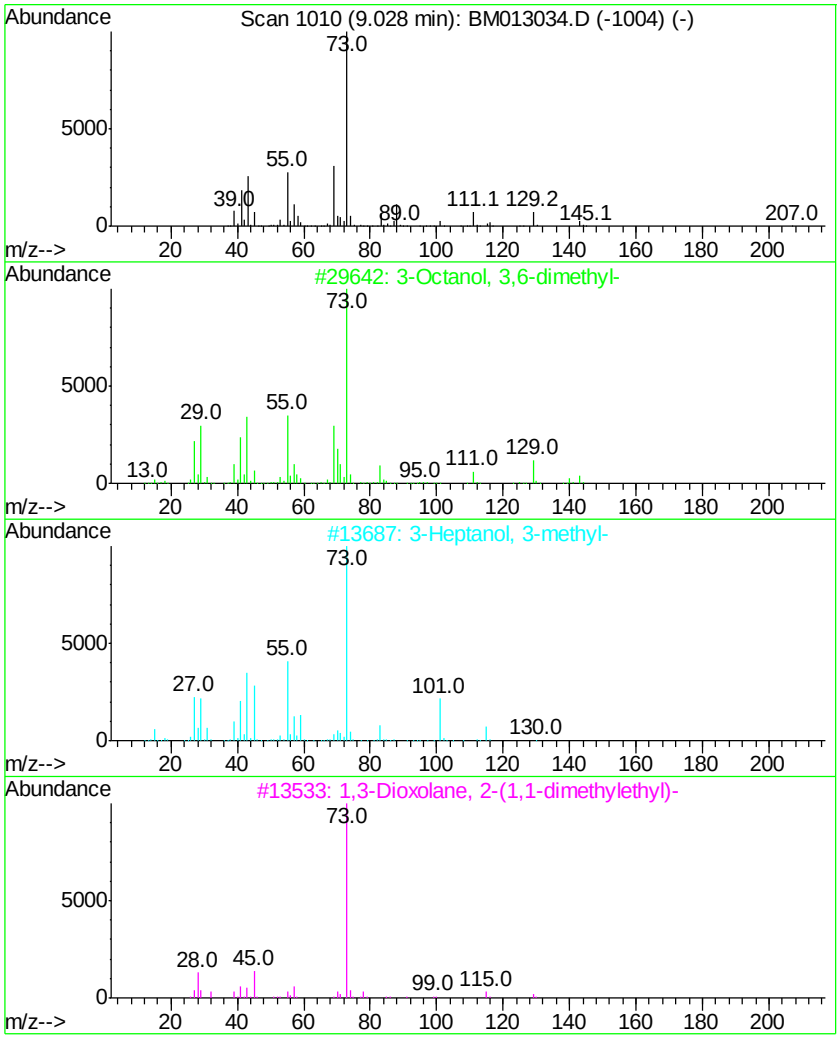
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

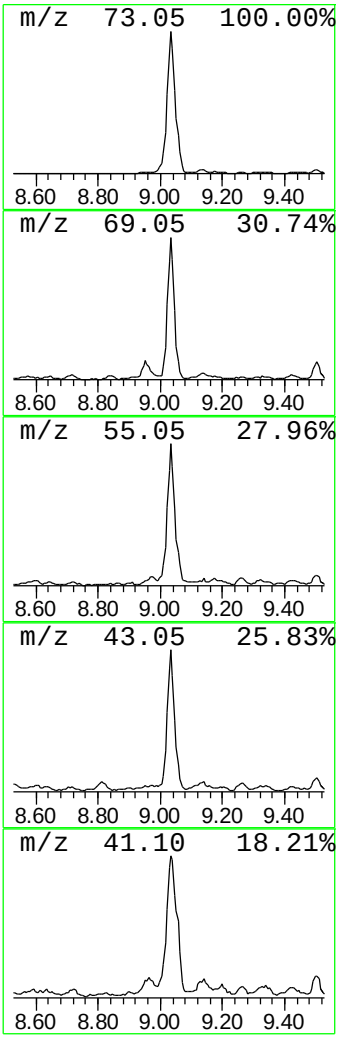
**********

Peak Number 10 unknown-01 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.03 | 34.03 ng/ul | 2772100 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Octanol, 3,6-dimethyl- | 158 | C10H22O | 000151-19-9 | 37 |
| 2 | 3-Heptanol, 3-methyl- | 130 | C8H18O | 005582-82-1 | 35 |
| 3 | 1,3-Dioxolane, 2-(1,1-dimethylet... | 130 | C7H14O2 | 002568-29-8 | 32 |
| 4 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 25 |
| 5 | Hydrazine, 1,1-diethyl- | 88 | C4H12N2 | 000616-40-0 | 25 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

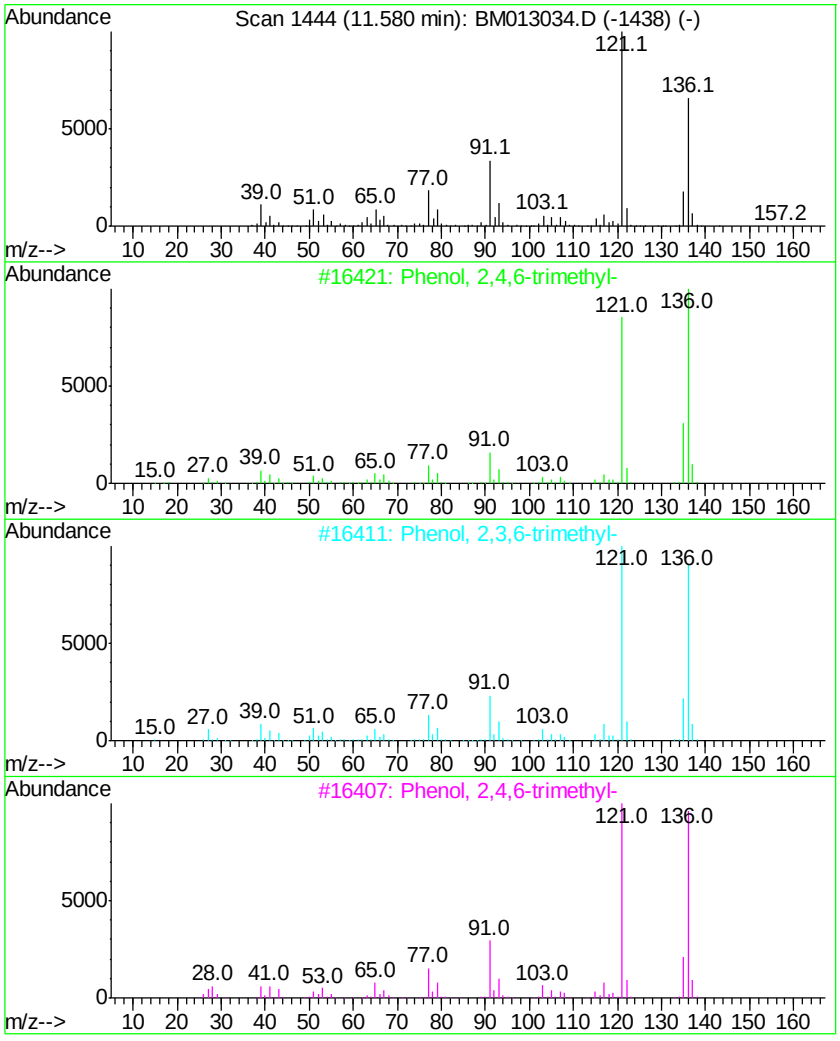
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

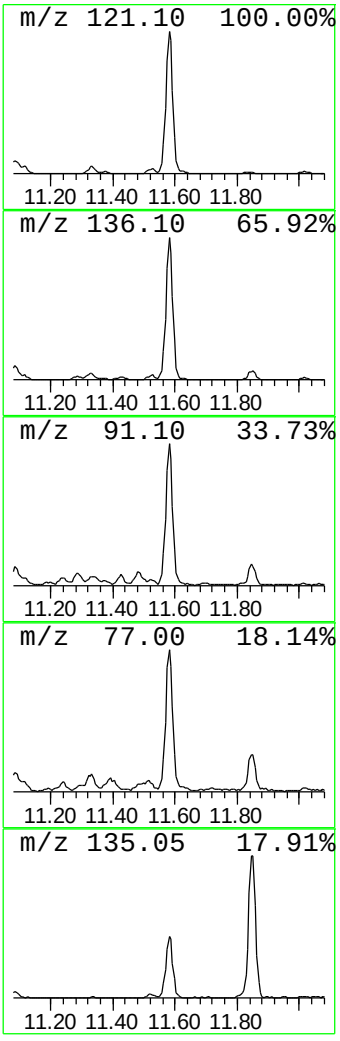
**********

Peak Number 11 Phenol, 2,4,6-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.58 | 57.24 ng/ul | 3827280 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 97 |
| 2 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 97 |
| 3 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 97 |
| 4 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 96 |
| 5 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 96 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

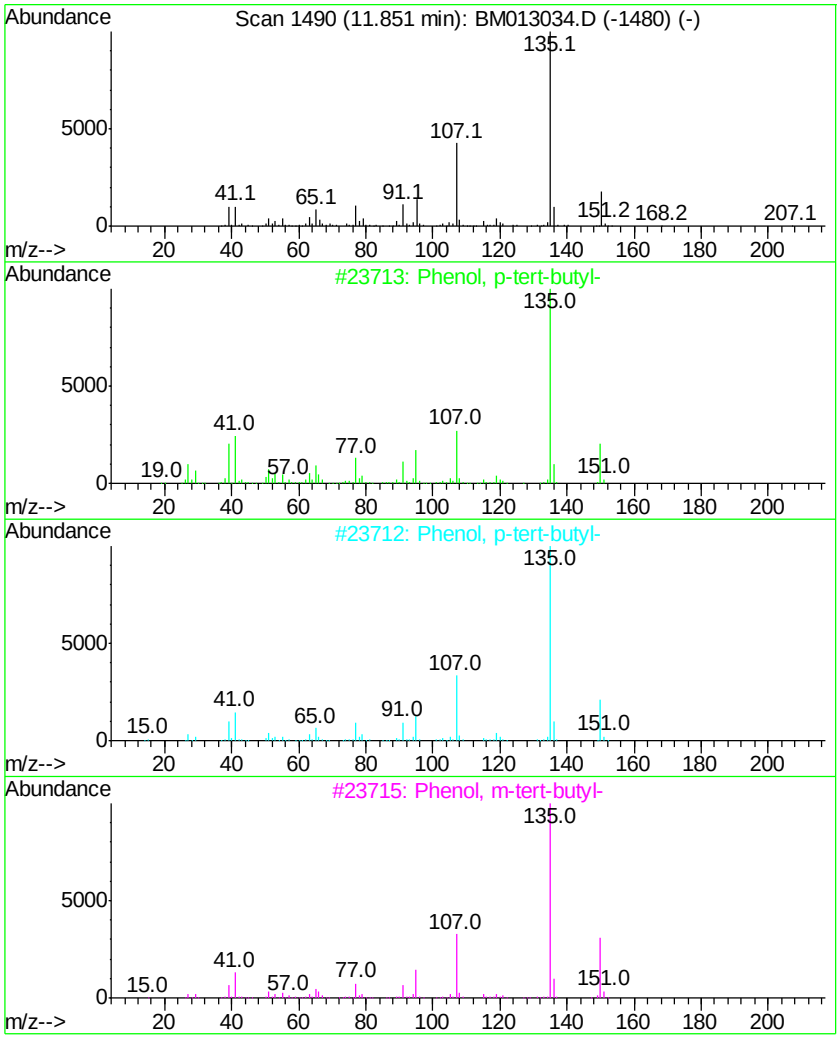
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

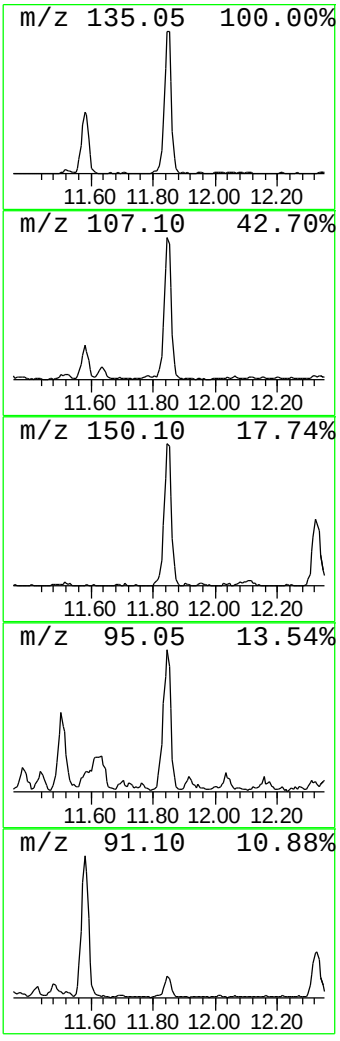
**********

Peak Number 12 Phenol, p-tert-butyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 23.22 ng/ul | 1552870 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, p-tert-butyl- | 150 | C10H14O | 000098-54-4 | 94 |
| 2 | Phenol, p-tert-butyl- | 150 | C10H14O | 000098-54-4 | 94 |
| 3 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 91 |
| 4 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 91 |
| 5 | Phenol, p-tert-butyl- | 150 | C10H14O | 000098-54-4 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

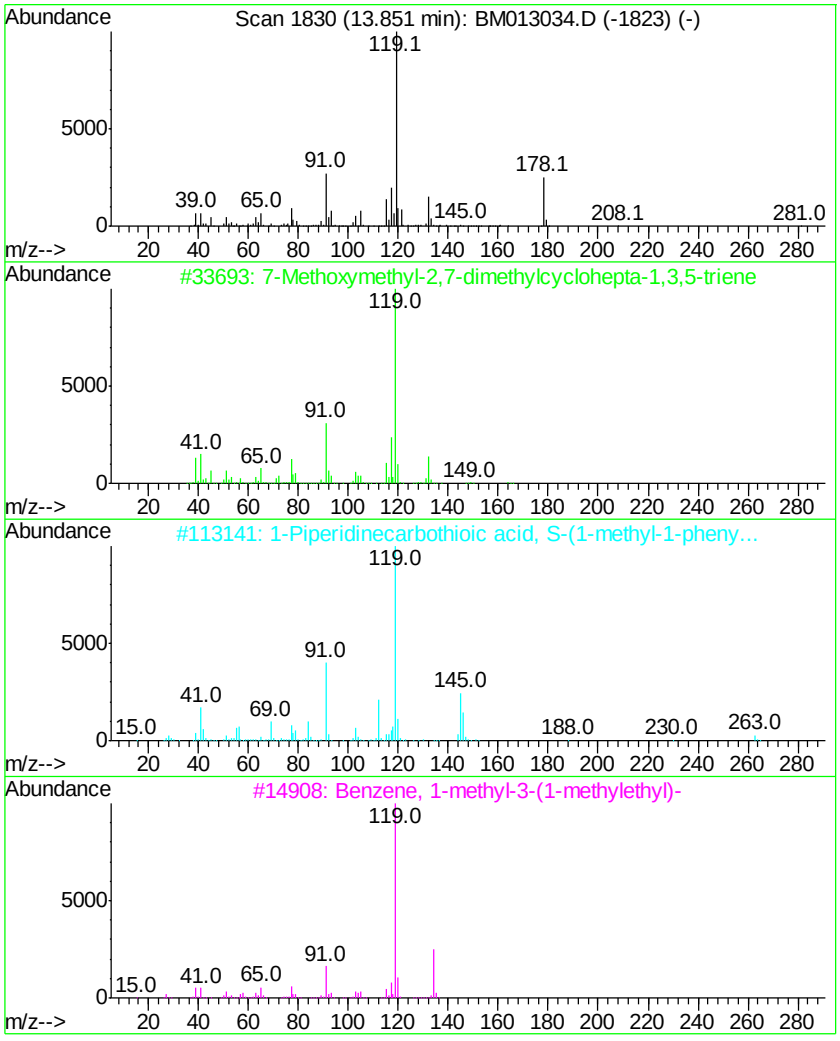
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

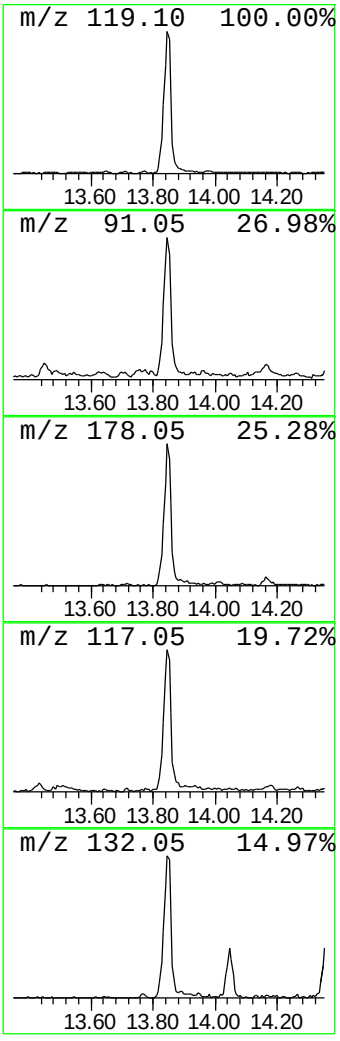
**********

Peak Number 13 7-Methoxymethyl-2,7-dimethy... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.85 | 11.50 ng/ul | 1219160 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Methoxymethyl-2,7-dimethylcycl... | 164 | C11H16O | 073992-48-0 | 64 |
| 2 | 1-Piperidinecarbothioic acid, S-... | 263 | C15H21NOS | 061432-55-1 | 47 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 47 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 47 |
| 5 | 1-Acetyl-3-phenylurea | 178 | C9H10N2O2 | 000102-03-4 | 47 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

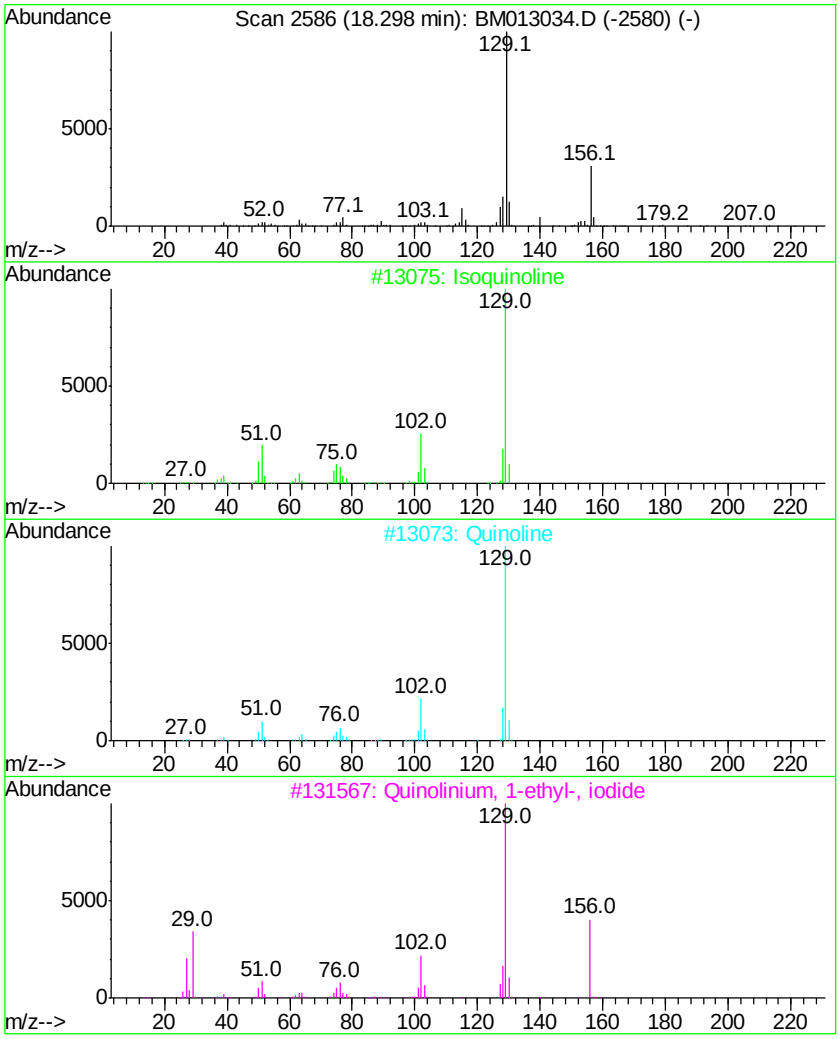
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

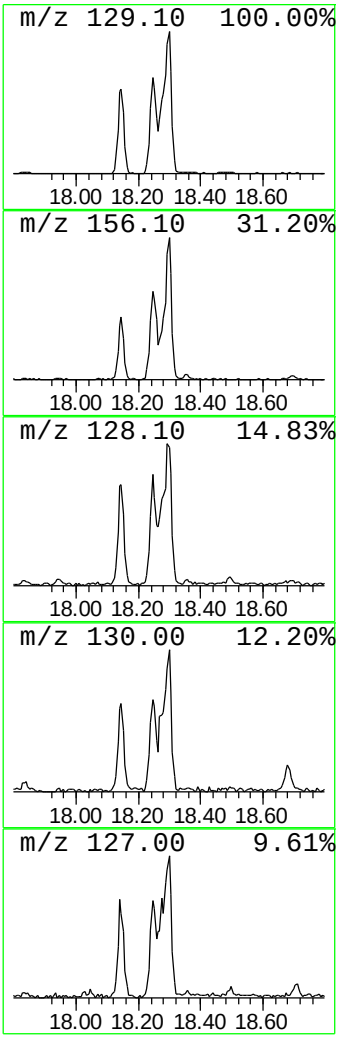
**********

Peak Number 14 Isoquinoline Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 11.60 ng/ul | 1413120 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isoquinoline | 129 | C9H7N | 000119-65-3 | 52 |
| 2 | Quinoline | 129 | C9H7N | 000091-22-5 | 50 |
| 3 | Quinolinium, 1-ethyl-, iodide | 285 | C11H12IN | 000634-35-5 | 50 |
| 4 | Isoquinoline | 129 | C9H7N | 000119-65-3 | 50 |
| 5 | 1,2-Benzenediacetonitrile | 156 | C10H8N2 | 000613-73-0 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM111717\
Data File : BM013034.D
Acq On : 18 Nov 2017 11:36
Operator : SJ/JU
Sample : I6405-21 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE2W2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Methyl Isobutyl K... | 3.58 | 34.5 | ng/ul | 2808340 | 1 | 7.72 | 1628990 | 20.0 |
| Benzene, 1,3-dime... | 5.39 | 373.2 | ng/ul | 30399100 | 1 | 7.72 | 1628990 | 20.0 |
| Benzene, 1-ethyl-... | 6.82 | 19.0 | ng/ul | 1548990 | 1 | 7.72 | 1628990 | 20.0 |
| Benzene, 1,2,3-tr... | 7.37 | 56.3 | ng/ul | 4588740 | 1 | 7.72 | 1628990 | 20.0 |
| Cyclohexanol, 3,3... | 8.35 | 95.2 | ng/ul | 7757110 | 1 | 7.72 | 1628990 | 20.0 |
| unknown-01 | 9.03 | 34.0 | ng/ul | 2772100 | 1 | 7.72 | 1628990 | 20.0 |
| Phenol, 2,4,6-tri... | 11.58 | 57.2 | ng/ul | 3827280 | 2 | 10.50 | 1337320 | 20.0 |
| Phenol, p-tert-bu... | 11.85 | 23.2 | ng/ul | 1552870 | 2 | 10.50 | 1337320 | 20.0 |
| 7-Methoxymethyl-2... | 13.85 | 11.5 | ng/ul | 1219160 | 3 | 14.36 | 2121170 | 20.0 |
| Isoquinoline | 18.30 | 11.6 | ng/ul | 1413120 | 4 | 17.10 | 2436260 | 20.0 |