LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM035154.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.481 | 401 | 407 | 416 | rVB | 1874173 | 2624664 | 1.93% | 0.534% |
| 2 | 7.075 | 670 | 678 | 691 | rBV | 1239944 | 2001507 | 1.47% | 0.407% |
| 3 | 7.363 | 720 | 727 | 737 | rBV | 1258302 | 1809004 | 1.33% | 0.368% |
| 4 | 9.063 | 1010 | 1016 | 1030 | rVB | 1813109 | 2992747 | 2.20% | 0.609% |
| 5 | 10.245 | 1211 | 1217 | 1225 | rVB | 2114107 | 3408068 | 2.50% | 0.694% |
| 6 | 10.704 | 1277 | 1295 | 1304 | rBV | 760688 | 1809801 | 1.33% | 0.368% |
| 7 | 12.398 | 1572 | 1583 | 1611 | rVV | 1080128 | 5682092 | 4.17% | 1.157% |
| 8 | 13.169 | 1707 | 1714 | 1727 | rVB | 4378198 | 6238900 | 4.58% | 1.270% |
| 9 | 14.227 | 1883 | 1894 | 1899 | rBV | 15031721 | 29048011 | 21.34% | 5.914% |
| 10 | 14.545 | 1942 | 1948 | 1953 | rBV | 1056364 | 1542862 | 1.13% | 0.314% |
| 11 | 14.657 | 1953 | 1967 | 1971 | rBV | 4045454 | 10734073 | 7.89% | 2.185% |
| 12 | 15.016 | 2020 | 2028 | 2032 | rBV | 2729298 | 4525546 | 3.32% | 0.921% |
| 13 | 16.039 | 2186 | 2202 | 2203 | rBV2 | 17030765 | 46990801 | 34.52% | 9.567% |
| 14 | 16.110 | 2211 | 2214 | 2217 | rVV | 4399128 | 5610549 | 4.12% | 1.142% |
| 15 | 16.145 | 2217 | 2220 | 2225 | rVB | 9917365 | 12294665 | 9.03% | 2.503% |
| 16 | 16.239 | 2230 | 2236 | 2242 | rVB2 | 1621196 | 2734253 | 2.01% | 0.557% |
| 17 | 16.733 | 2301 | 2320 | 2329 | rBV2 | 10843622 | 30135804 | 22.14% | 6.135% |
| 18 | 16.833 | 2330 | 2337 | 2348 | rVV | 3791232 | 6440388 | 4.73% | 1.311% |
| 19 | 17.292 | 2411 | 2415 | 2418 | rVV | 1187844 | 1869558 | 1.37% | 0.381% |
| 20 | 17.321 | 2418 | 2420 | 2428 | rVB3 | 1015721 | 1468545 | 1.08% | 0.299% |
| 21 | 17.933 | 2516 | 2524 | 2528 | rBV | 4301202 | 7917106 | 5.82% | 1.612% |
| 22 | 17.968 | 2528 | 2530 | 2535 | rVB | 1546414 | 1894152 | 1.39% | 0.386% |
| 23 | 18.157 | 2538 | 2562 | 2565 | rBV | 29888572 | 136108906 | 100.00% | 27.711% |
| 24 | 18.239 | 2570 | 2576 | 2585 | rVB3 | 4073285 | 7225864 | 5.31% | 1.471% |
| 25 | 18.480 | 2612 | 2617 | 2622 | rBV | 6302343 | 9316610 | 6.84% | 1.897% |
| 26 | 18.604 | 2634 | 2638 | 2643 | rBV2 | 3080624 | 6385430 | 4.69% | 1.300% |
| 27 | 18.657 | 2643 | 2647 | 2657 | rVB2 | 3764732 | 8101263 | 5.95% | 1.649% |
| 28 | 19.280 | 2745 | 2753 | 2759 | rBV2 | 2357791 | 4787950 | 3.52% | 0.975% |
| 29 | 19.374 | 2759 | 2769 | 2783 | rVV | 17539591 | 38756961 | 28.47% | 7.891% |
| 30 | 19.492 | 2784 | 2789 | 2801 | rVB | 4494462 | 6260187 | 4.60% | 1.275% |
| 31 | 19.609 | 2802 | 2809 | 2816 | rBV3 | 1613380 | 3329735 | 2.45% | 0.678% |
| 32 | 19.915 | 2857 | 2861 | 2867 | rVB | 5997853 | 7308881 | 5.37% | 1.488% |
| 33 | 20.374 | 2935 | 2939 | 2943 | rBV2 | 1117121 | 2096670 | 1.54% | 0.427% |
| 34 | 20.468 | 2944 | 2955 | 2968 | rVB | 24200386 | 55298749 | 40.63% | 11.259% |
| 35 | 20.880 | 3020 | 3025 | 3029 | rBV | 6595366 | 8332770 | 6.12% | 1.697% |
| 36 | 21.474 | 3122 | 3126 | 3133 | rVB | 1664452 | 2270212 | 1.67% | 0.462% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
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Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 22.274 | 3258 | 3262 | 3273 | rVB2 | 876367 | 1628347 | 1.20% | 0.332% |
| 38 | 23.862 | 3526 | 3532 | 3539 | rVB2 | 1067273 | 2096117 | 1.54% | 0.427% |
| 39 | 25.868 | 3867 | 3873 | 3888 | rVB4 | 679665 | 2093850 | 1.54% | 0.426% |

Sum of corrected areas: 491171598

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
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Acq On : 19 May 2022 15:48
Operator : CG/JU
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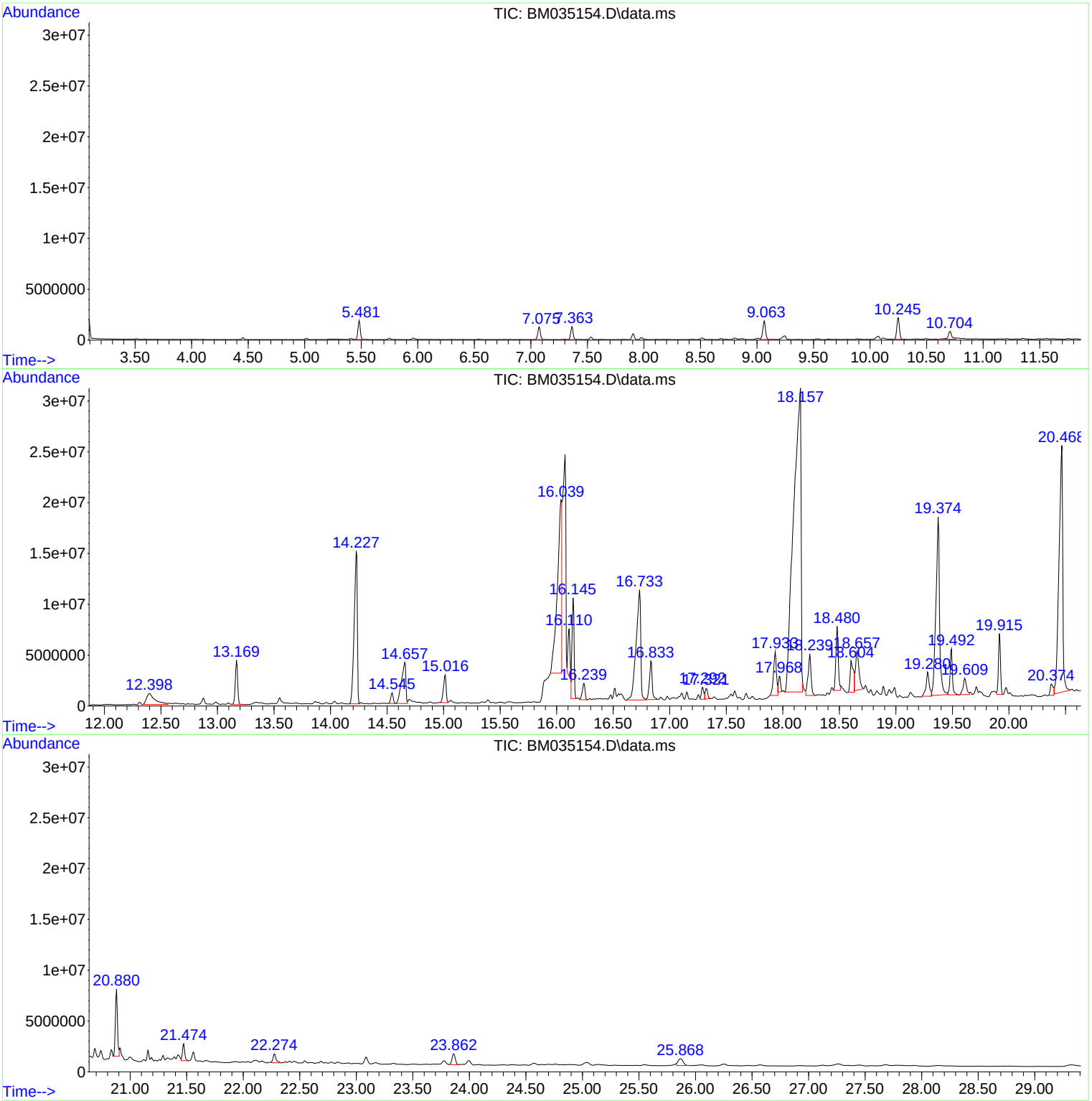
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

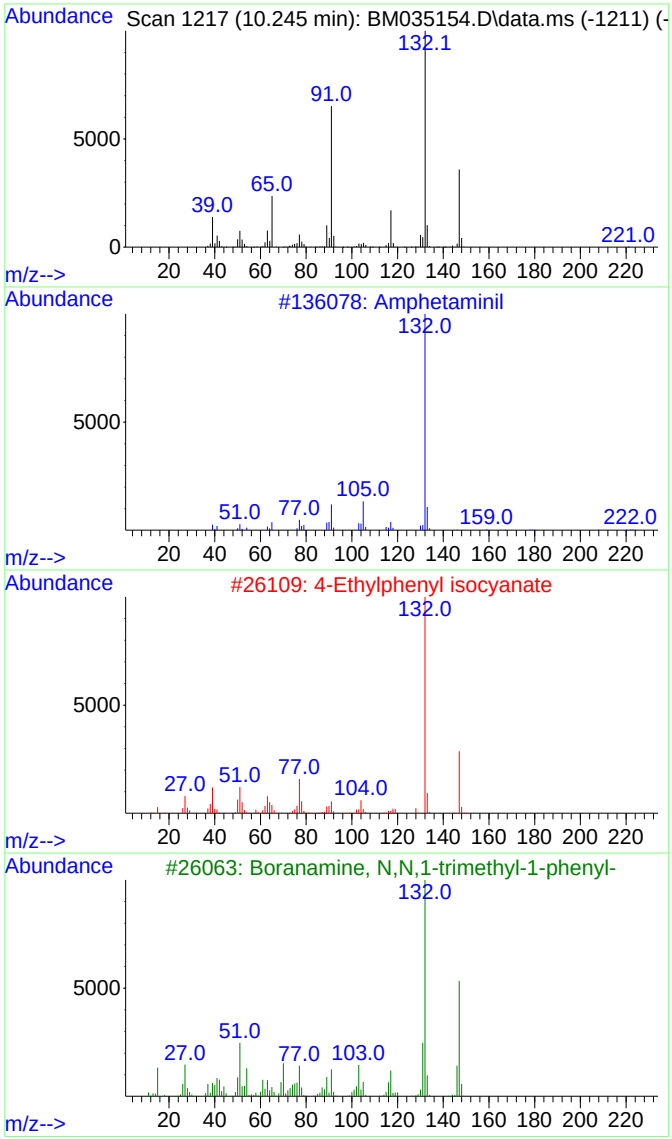
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

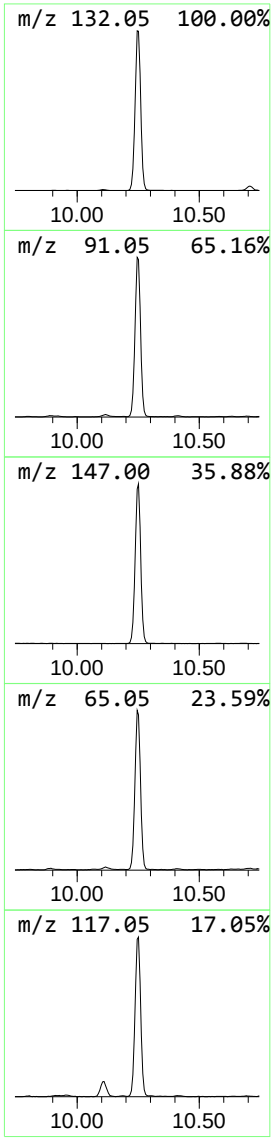
**********

Peak Number 1 Amphetaminil Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.245 | 37.66 ng | 3408070 | Naphthalene-d8 | 10.704 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 64 |
| 2 | 4-Ethylphenyl isocyanate | 147 | C9H9NO | 023138-50-3 | 50 |
| 3 | Boranamine, N,N,1-trimethyl-1-ph... | 147 | C9H14BN | 003519-71-9 | 50 |
| 4 | Cyanamide, methylphenyl- | 132 | C8H8N2 | 018773-77-8 | 47 |
| 5 | 1-Isoquinolinemethanol, .alpha.-... | 191 | C12H17NO | 114608-92-3 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

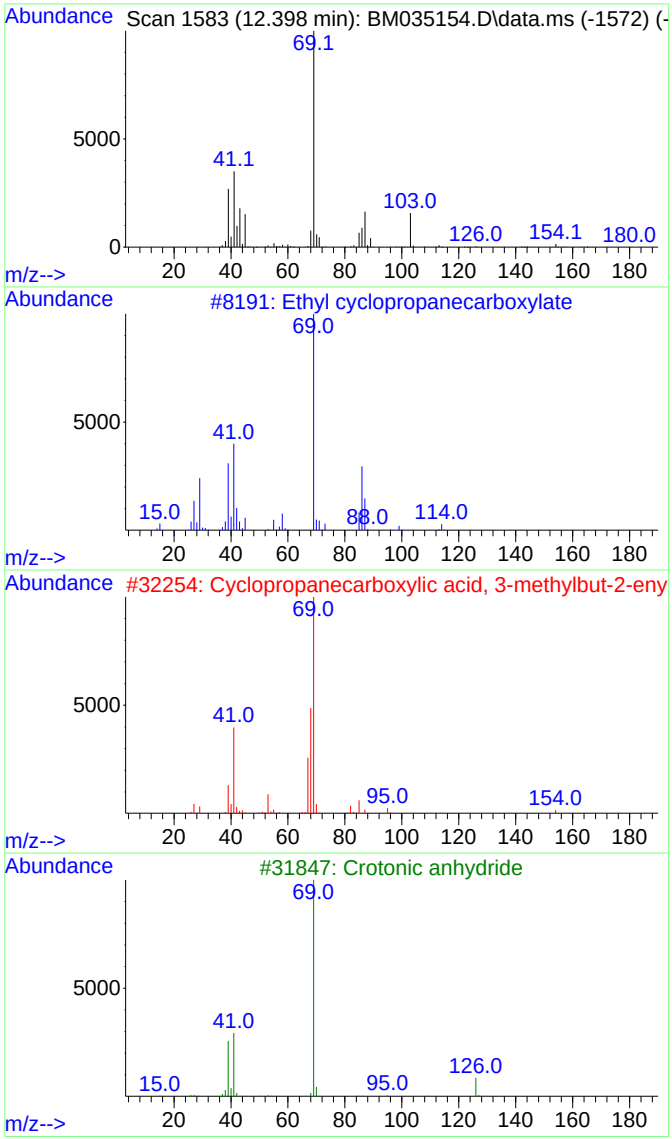
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

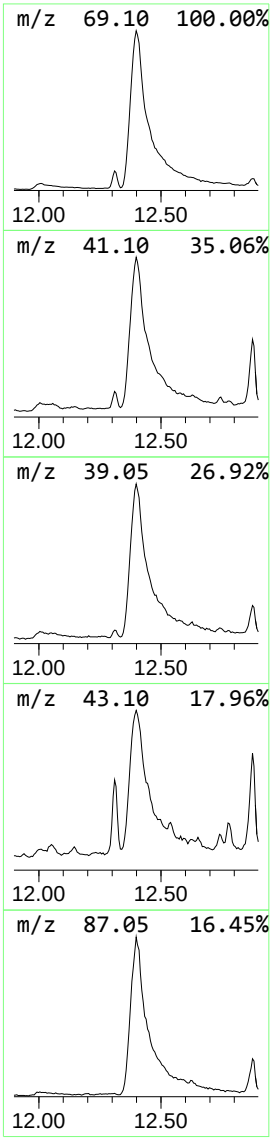
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Ethyl cyclopropanecarboxylate Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.398 | 62.79 ng | 5682090 | Naphthalene-d8 | 10.704 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl cyclopropanecarboxylate | 114 | C6H10O2 | 004606-07-9 | 50 |
| 2 | Cyclopropanecarboxylic acid, 3-m... | 154 | C9H14O2 | 1000299-37-4 | 47 |
| 3 | Crotonic anhydride | 154 | C8H10O3 | 000623-68-7 | 37 |
| 4 | 4-Octanone, 5-hydroxy-2,7-dimethyl- | 172 | C10H20O2 | 006838-51-3 | 36 |
| 5 | Oxazole | 69 | C3H3NO | 000288-42-6 | 28 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

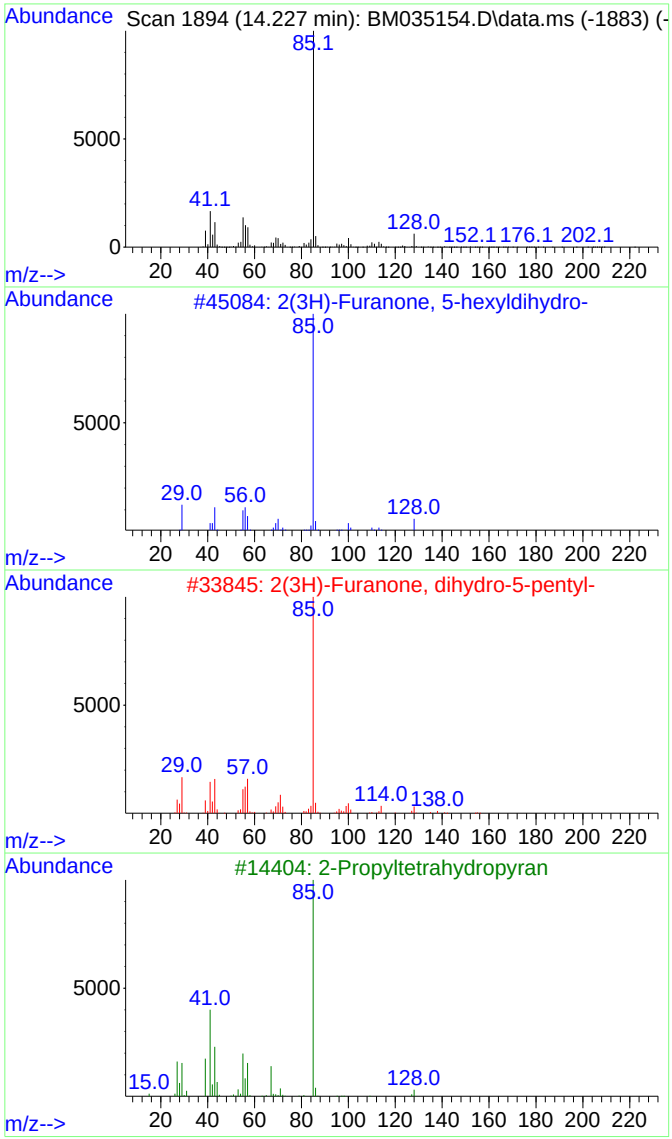
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

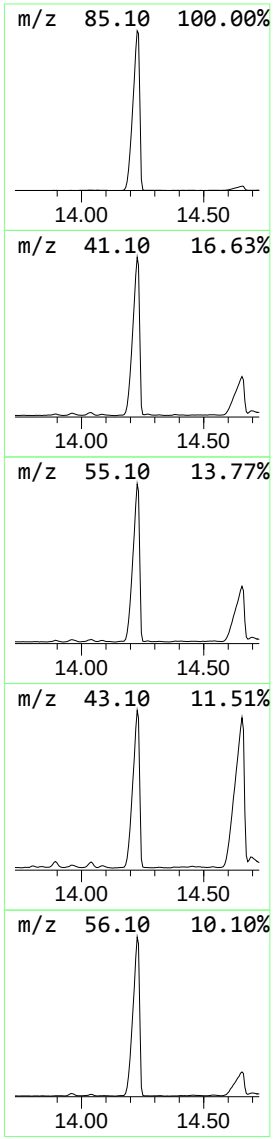
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 2(3H)-Furanone, 5-hexyldihy... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.227 | 376.55 ng | 29048000 | Acenaphthene-d10 | 14.545 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(3H)-Furanone, 5-hexyldihydro- | 170 | C10H18O2 | 000706-14-9 | 90 |
| 2 | 2(3H)-Furanone, dihydro-5-pentyl- | 156 | C9H16O2 | 000104-61-0 | 78 |
| 3 | 2-Propyltetrahydropyran | 128 | C8H16O | 003857-17-8 | 72 |
| 4 | 2(3H)-Furanone, 5-butyldihydro- | 142 | C8H14O2 | 000104-50-7 | 72 |
| 5 | 2(3H)-Furanone, dihydro-5-propyl- | 128 | C7H12O2 | 000105-21-5 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

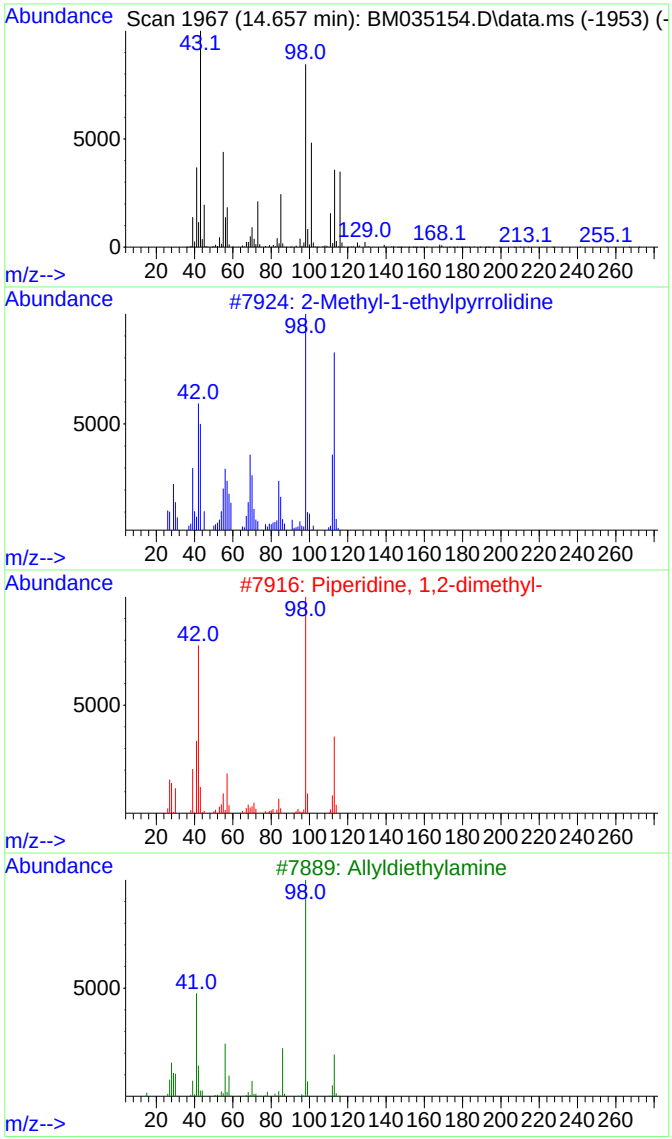
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

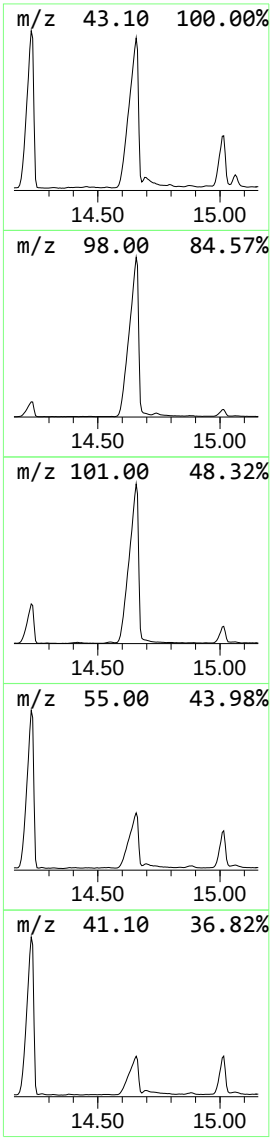
**********

Peak Number 4 unknown14.657 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.657 | 139.15 ng | 10734100 | Acenaphthene-d10 | 14.545 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-1-ethylpyrrolidine | 113 | C7H15N | 000765-79-7 | 38 |
| 2 | Piperidine, 1,2-dimethyl- | 113 | C7H15N | 000671-36-3 | 35 |
| 3 | Allyldiethylamine | 113 | C7H15N | 005666-17-1 | 35 |
| 4 | Decanoic acid, 4-oxo- | 186 | C10H18O3 | 004144-54-1 | 35 |
| 5 | 3-Buten-2-one, 4-(dimethylamino)- | 113 | C6H11NO | 001190-91-6 | 35 |



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Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
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WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

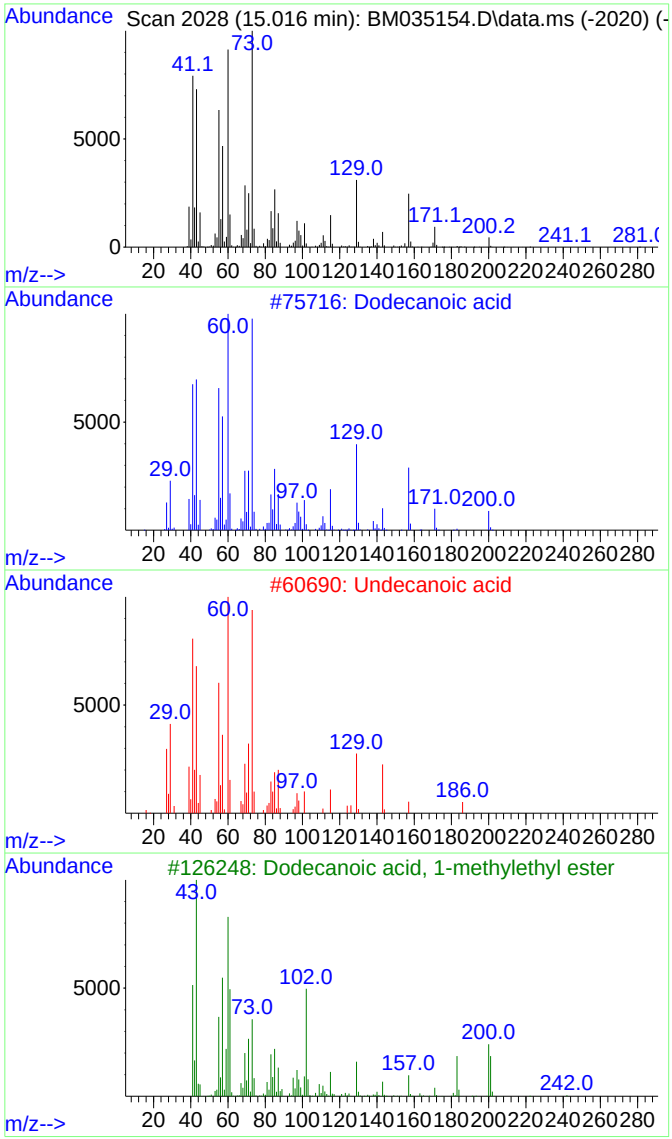
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

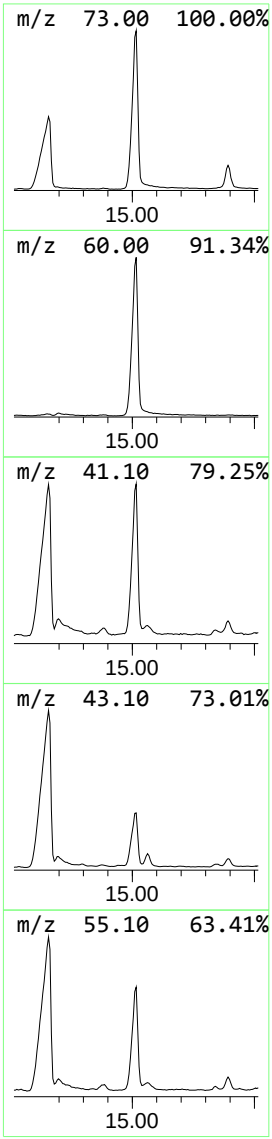
**********

Peak Number 5 Dodecanoic acid Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.016 | 58.66 ng | 4525550 | Acenaphthene-d10 | 14.545 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 98 |
| 2 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 80 |
| 3 | Dodecanoic acid, 1-methylethyl e... | 242 | C15H30O2 | 010233-13-3 | 64 |
| 4 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 49 |
| 5 | Ethanone, 1-(4,5-dihydro-2-thiaz... | 129 | C5H7NOS | 029926-41-8 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
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WASTE-WATER-5/16/22

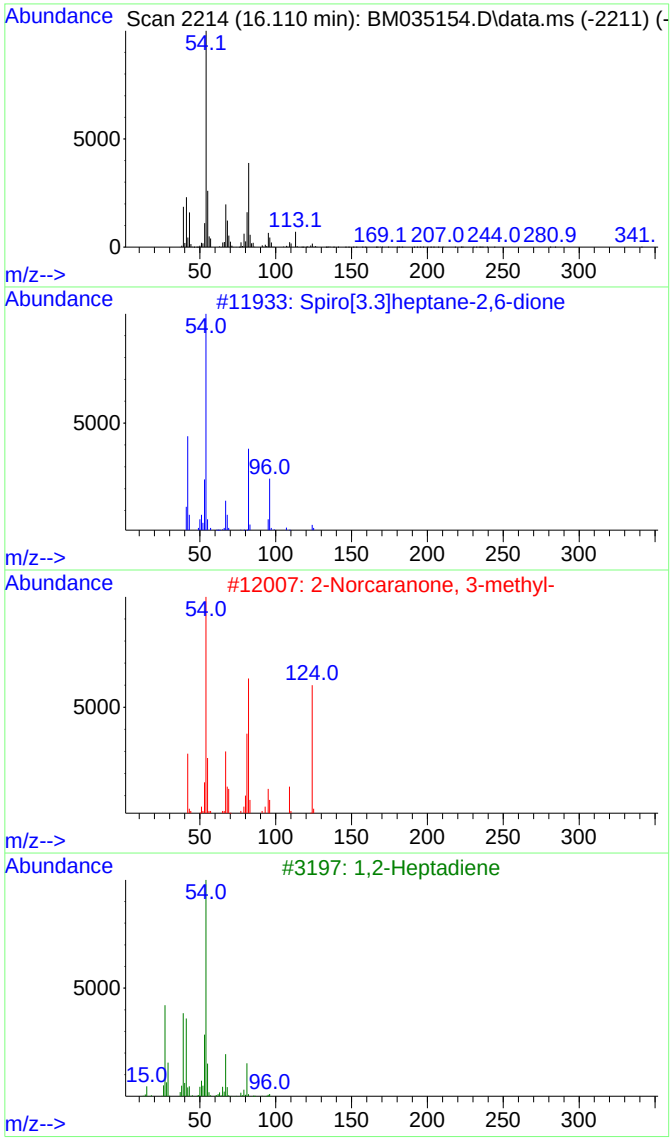
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

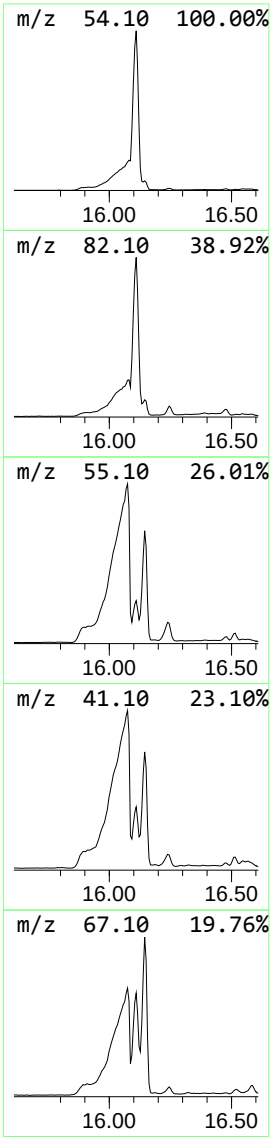
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Spiro[3.3]heptane-2,6-dione Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.110 | 60.02 ng | 5610550 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Spiro[3.3]heptane-2,6-dione | 124 | C7H8O2 | 020061-23-8 | 64 |
| 2 | 2-Norcaranone, 3-methyl- | 124 | C8H12O | 029750-22-9 | 64 |
| 3 | 1,2-Heptadiene | 96 | C7H12 | 002384-90-9 | 50 |
| 4 | 1,2-Nonadiene | 124 | C9H16 | 022433-33-6 | 40 |
| 5 | 2H-Pyran, 2,5-diethenyltetrahydro- | 138 | C9H14O | 025724-33-8 | 39 |



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Operator : CG/JU
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**Instrument :**
BNA_M
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WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

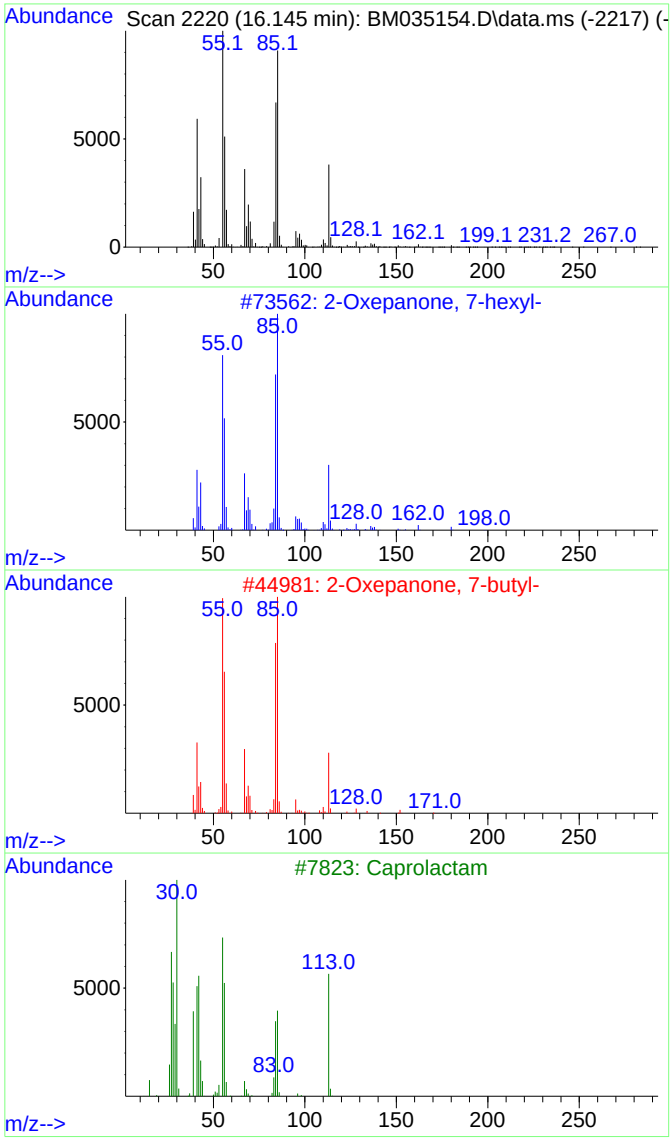
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

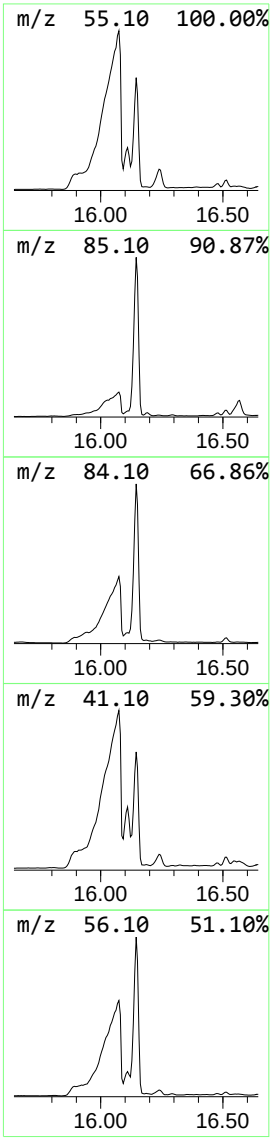
**********

Peak Number 7 2-Oxepanone, 7-hexyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.145 | 131.53 ng | 12294700 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Oxepanone, 7-hexyl- | 198 | C12H22O2 | 016429-21-3 | 86 |
| 2 | 2-Oxepanone, 7-butyl- | 170 | C10H18O2 | 005579-78-2 | 78 |
| 3 | Caprolactam | 113 | C6H11NO | 000105-60-2 | 53 |
| 4 | 3,4-Dimethyl-isoxazol-5(4H)-one | 113 | C5H7NO2 | 015731-93-8 | 47 |
| 5 | 3-Pentanone,2-nitro-4-methyl-1-(... | 245 | C11H19NO5 | 1000196-84-1 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

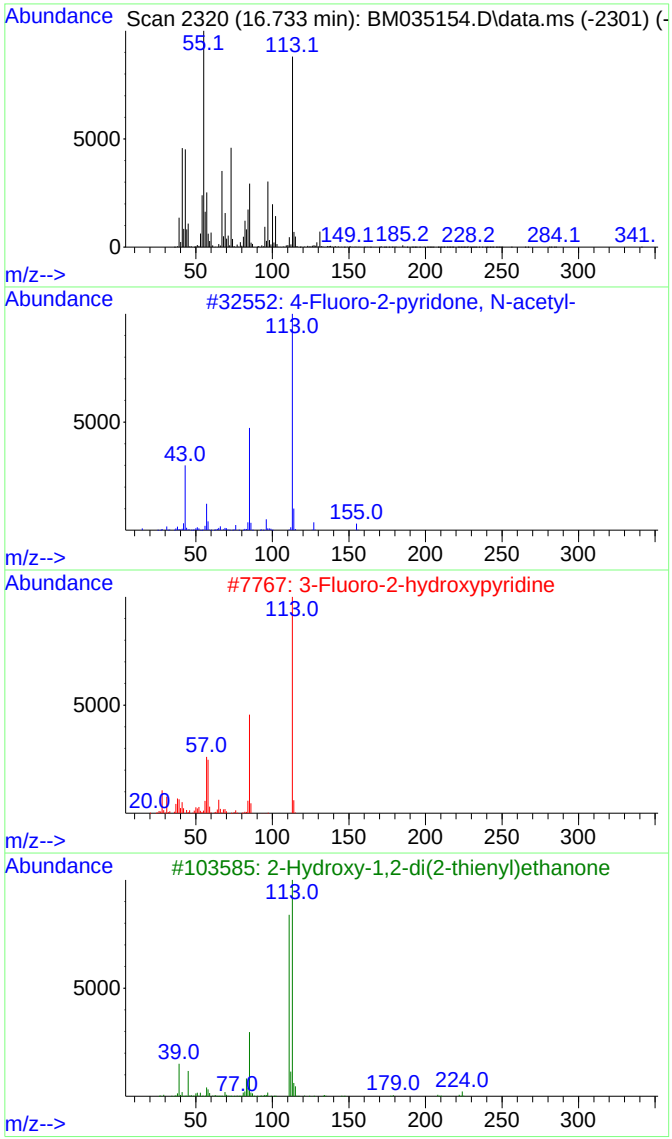
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

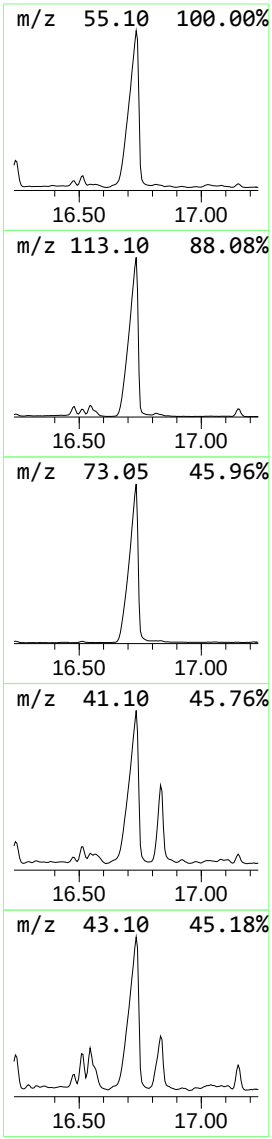
**********

Peak Number 8 unknown16.733 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.733 | 322.38 ng | 30135800 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Fluoro-2-pyridone, N-acetyl- | 155 | C7H6FNO2 | 1000508-33-5 | 38 |
| 2 | 3-Fluoro-2-hydroxypyridine | 113 | C5H4FNO | 001547-29-1 | 38 |
| 3 | 2-Hydroxy-1,2-di(2-thienyl)ethanone | 224 | C10H8O2S2 | 027761-02-0 | 38 |
| 4 | 4-Methylamino-2(5H)-furanone | 113 | C5H7NO2 | 1000427-45-5 | 38 |
| 5 | 3-Fluoro-2-hydroxypyridine, Ac d... | 155 | C7H6FNO2 | 1000496-78-8 | 38 |



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Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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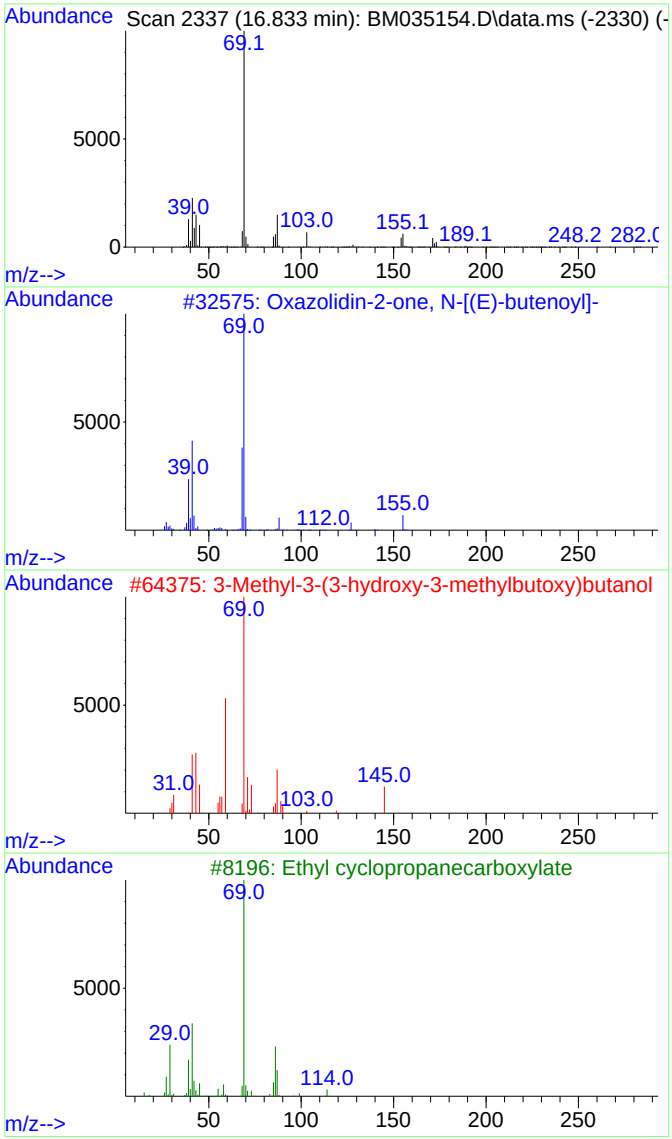
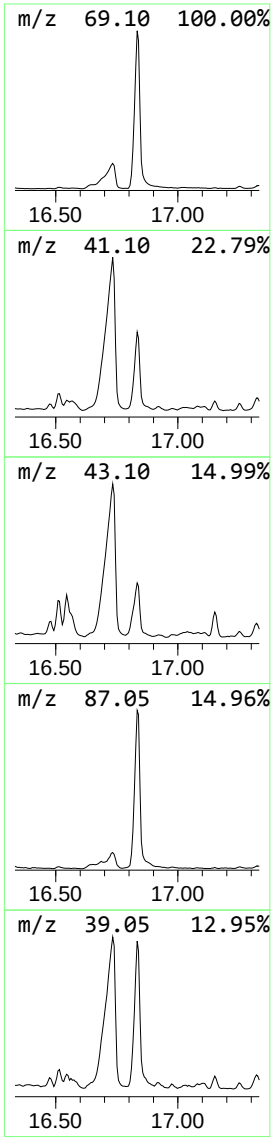
Peak Number 9 unknown16.833 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.833 | 68.90 ng | 6440390 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxazolidin-2-one, N-[(E)-butenoyl]- | 155 | C7H9NO3 | 1010156-45-5 | 40 |
| 2 | 3-Methyl-3-(3-hydroxy-3-methylbu... | 190 | C10H22O3 | 1000432-16-8 | 39 |
| 3 | Ethyl cyclopropanecarboxylate | 114 | C6H10O2 | 004606-07-9 | 38 |
| 4 | 3,3,7-Trimethyl-4-oxa-7-octen-1-ol | 172 | C10H20O2 | 069161-47-3 | 38 |
| 5 | 3-Heptanol, 2-methyl- | 130 | C8H18O | 018720-62-2 | 9 |



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Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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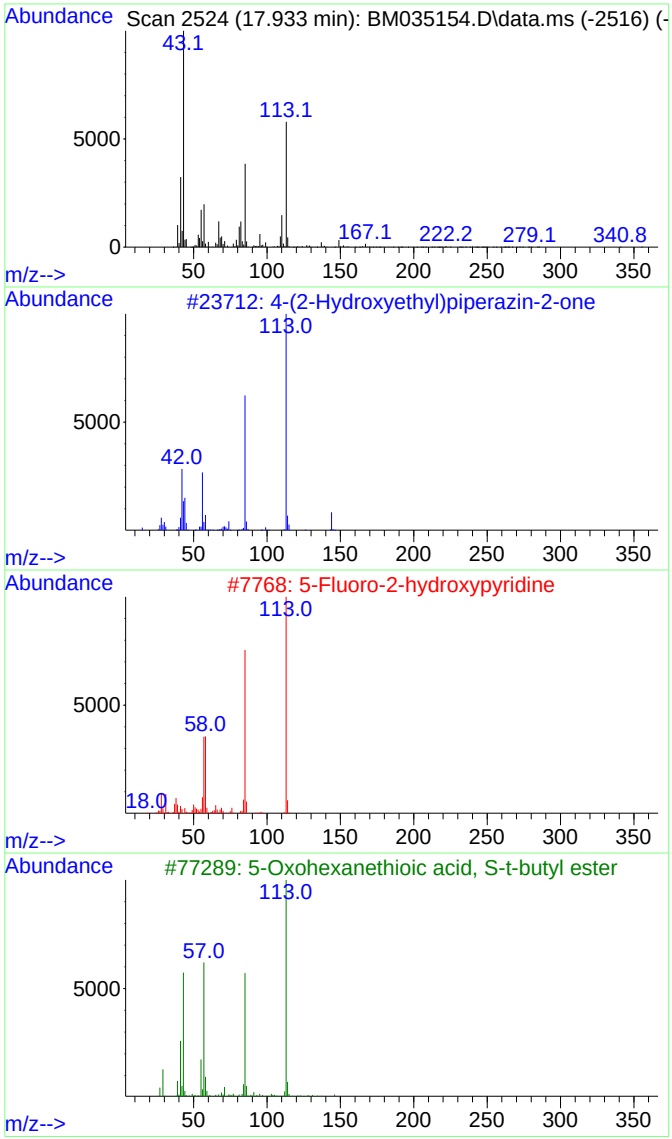
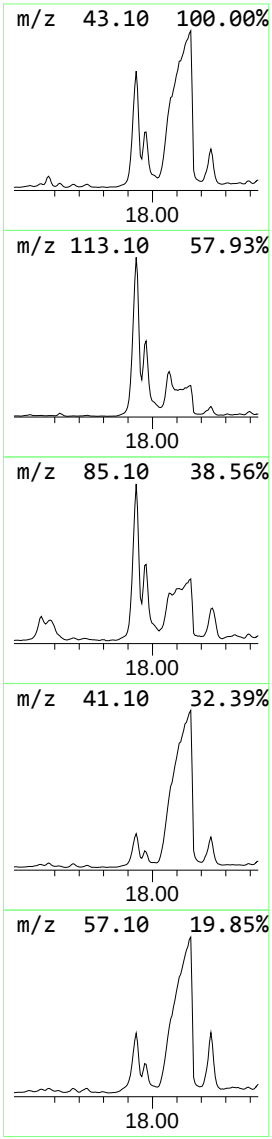
Peak Number 10 unknown17.933 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.933 | 84.69 ng | 7917110 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-(2-Hydroxyethyl)piperazin-2-one | 144 | C6H12N2O2 | 023936-04-1 | 43 |
| 2 | 5-Fluoro-2-hydroxypyridine | 113 | C5H4FNO | 051173-05-8 | 43 |
| 3 | 5-Oxohexanethioic acid, S-t-buty... | 202 | C10H18O2S | 1000194-60-8 | 43 |
| 4 | 3-Fluoro-2-hydroxypyridine | 113 | C5H4FNO | 001547-29-1 | 43 |
| 5 | trans-2,3-Epoxydecane | 156 | C10H20O | 054125-39-2 | 41 |



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Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

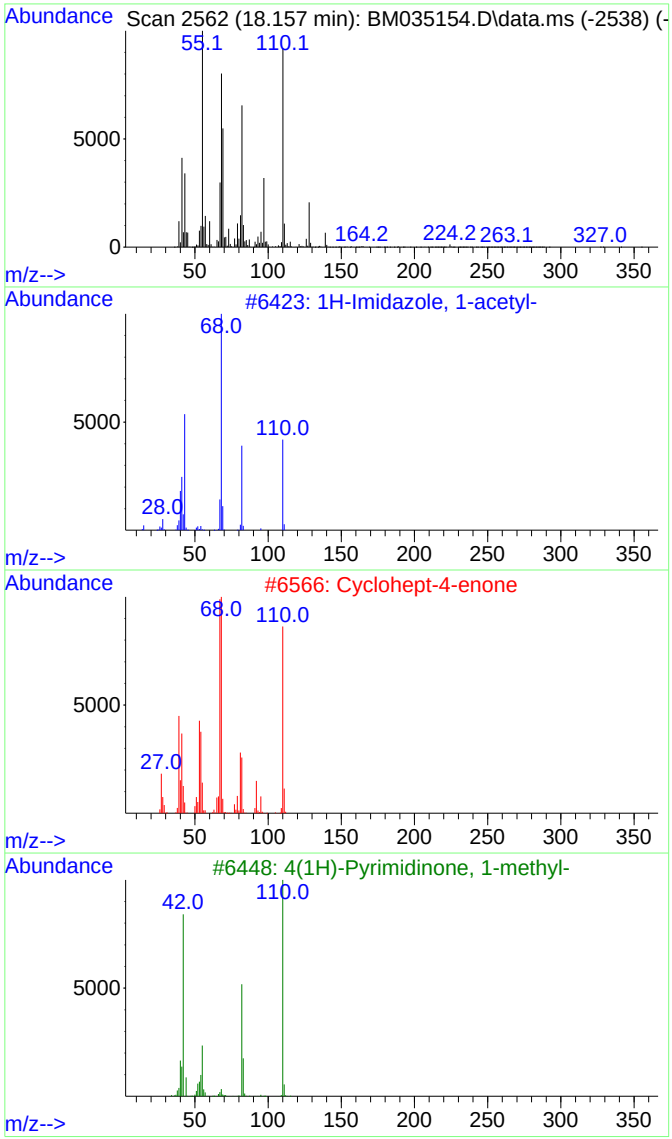
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

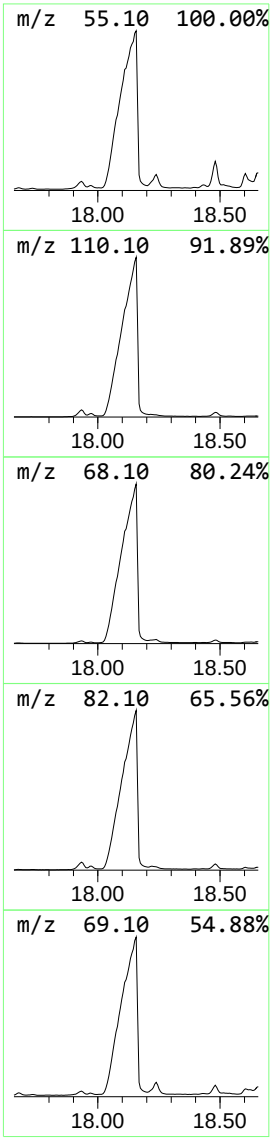
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 1H-Imidazole, 1-acetyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.157 | 1456.05 ng | 136109000 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Imidazole, 1-acetyl- | 110 | C5H6N2O | 002466-76-4 | 53 |
| 2 | Cyclohept-4-enone | 110 | C7H10O | 019686-79-4 | 47 |
| 3 | 4(1H)-Pyrimidinone, 1-methyl- | 110 | C5H6N2O | 002228-30-0 | 35 |
| 4 | 4-Pentenoic acid, 4-methyl-, met... | 128 | C7H12O2 | 002258-59-5 | 35 |
| 5 | Cyclohexanone, 4-methylidene- | 110 | C7H10O | 029648-66-6 | 35 |



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Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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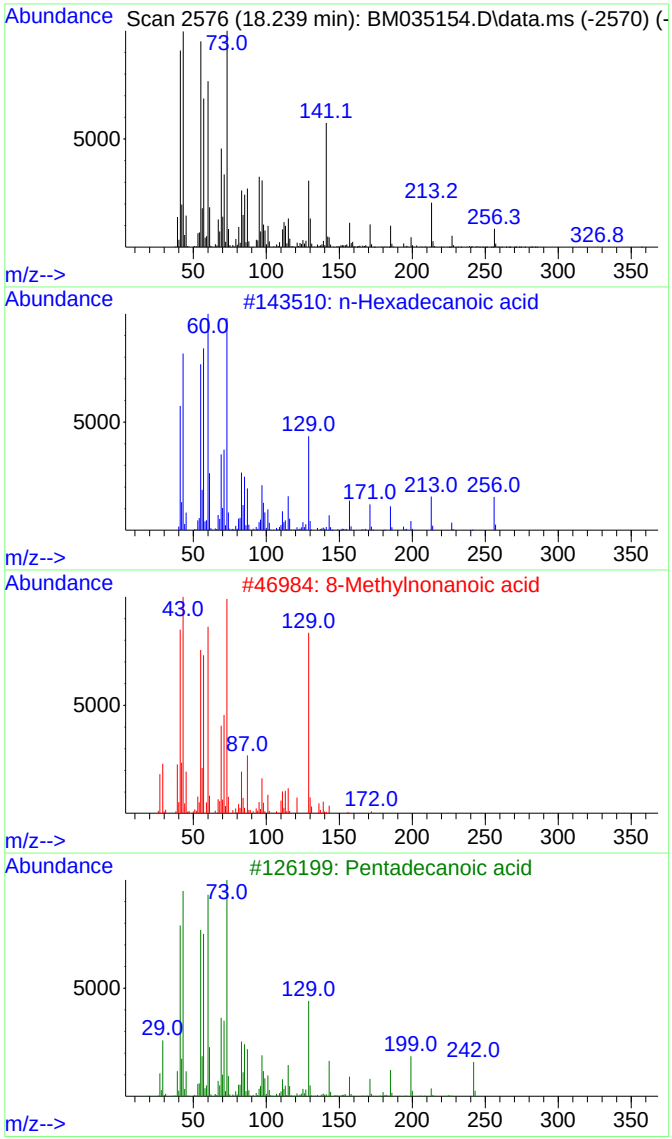
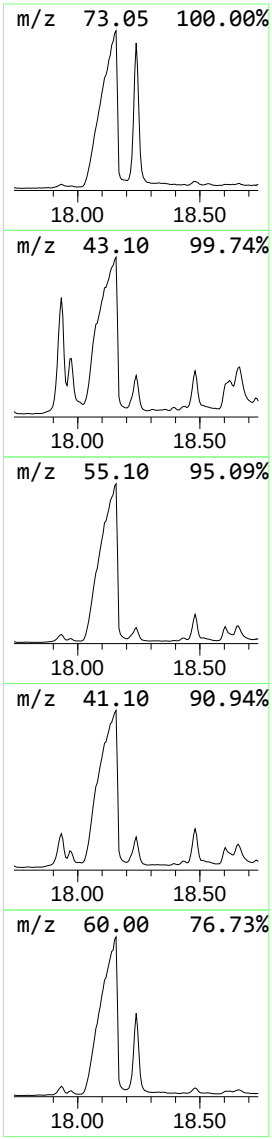
Peak Number 12 n-Hexadecanoic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.239 | 77.30 ng | 7225860 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | 8-Methylnonanoic acid | 172 | C10H20O2 | 005963-14-4 | 62 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 53 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 49 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 49 |



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Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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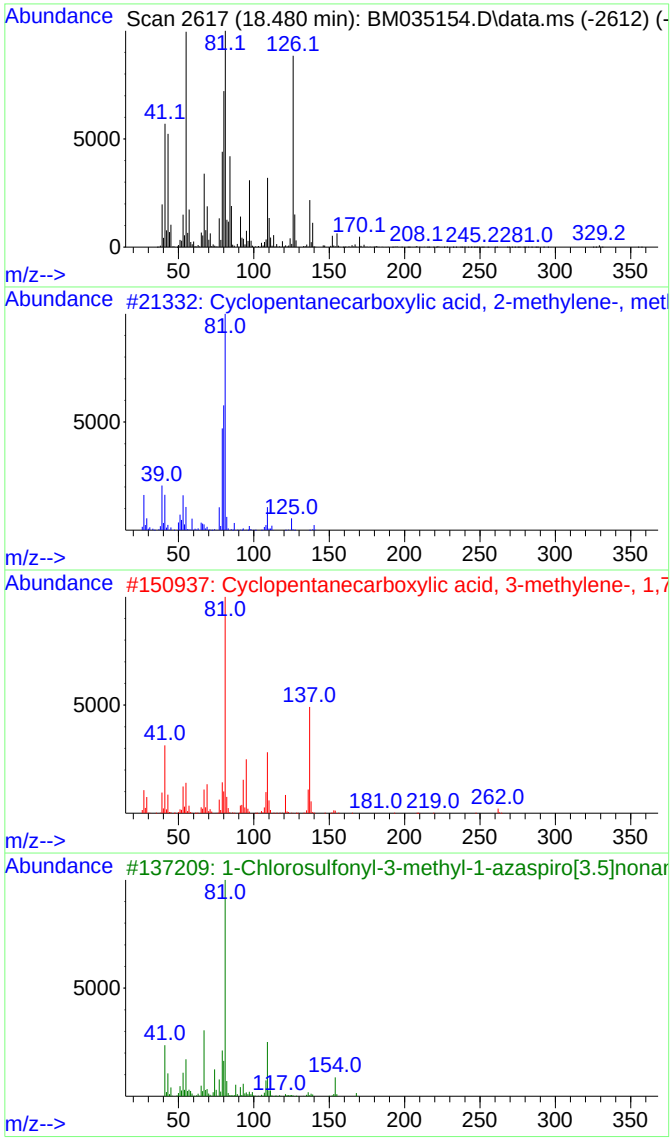
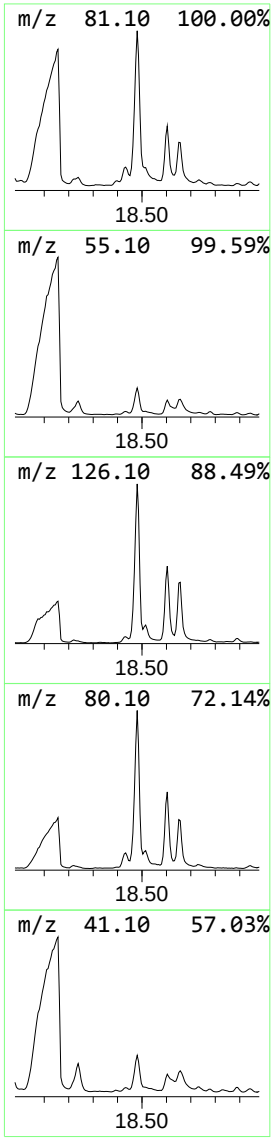
Peak Number 13 unknown18.480 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.480 | 99.67 ng | 9316610 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentanecarboxylic acid, 2-m... | 140 | C8H12O2 | 110550-98-6 | 35 |
| 2 | Cyclopentanecarboxylic acid, 3-m... | 262 | C17H26O2 | 074793-59-2 | 22 |
| 3 | 1-Chlorosulfonyl-3-methyl-1-azas... | 251 | C9H14ClNO3S | 016933-89-4 | 22 |
| 4 | 1,3,5-Benzenetriol | 126 | C6H6O3 | 000108-73-6 | 22 |
| 5 | 2,4,6-Trihydroxybenzoic acid | 170 | C7H6O5 | 000083-30-7 | 20 |



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Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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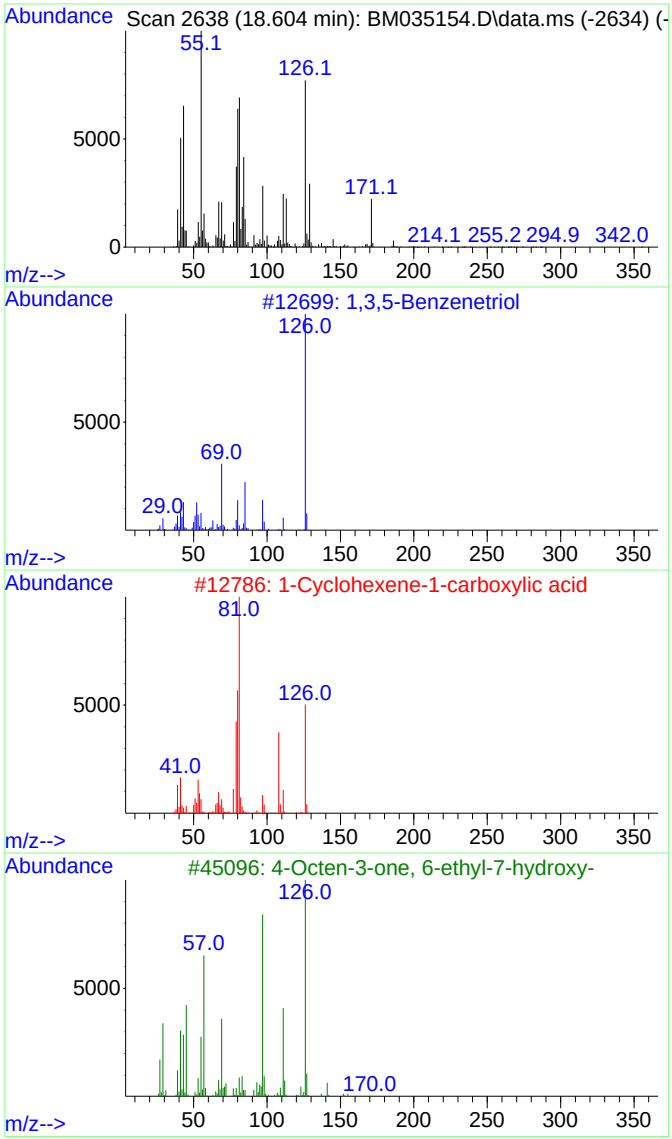
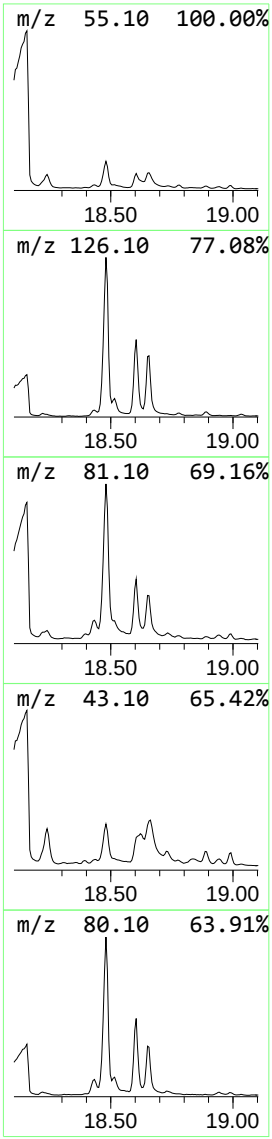
Peak Number 14 unknown18.604 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.604 | 68.31 ng | 6385430 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3,5-Benzenetriol | 126 | C6H6O3 | 000108-73-6 | 35 |
| 2 | 1-Cyclohexene-1-carboxylic acid | 126 | C7H10O2 | 000636-82-8 | 35 |
| 3 | 4-Octen-3-one, 6-ethyl-7-hydroxy- | 170 | C10H18O2 | 078464-96-7 | 27 |
| 4 | Benzene, 1-fluoro-2-methoxy- | 126 | C7H7FO | 000321-28-8 | 25 |
| 5 | 3-Hepten-2-one, 3-methyl- | 126 | C8H14O | 039899-08-6 | 14 |



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Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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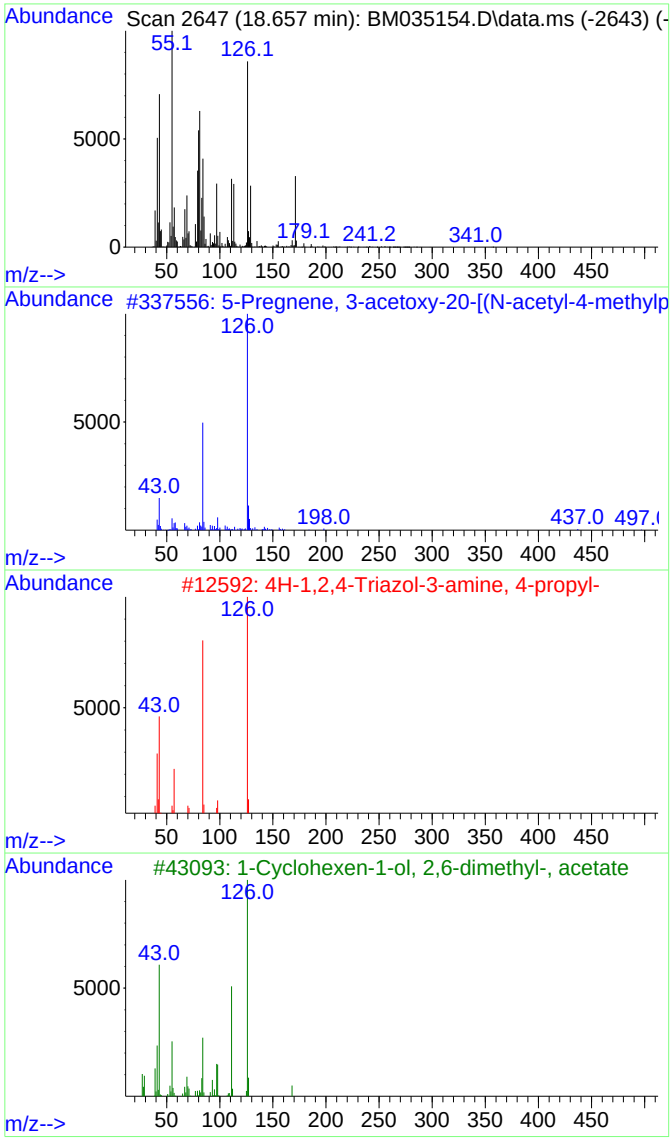
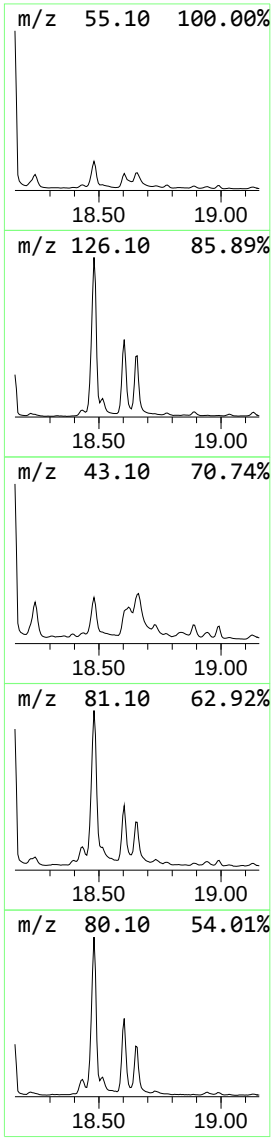
Peak Number 15 unknown18.657 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.657 | 86.67 ng | 8101260 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Pregnene, 3-acetoxy-20-[(N-ace... | 497 | C31H47NO4 | 1000256-71-6 | 27 |
| 2 | 4H-1,2,4-Triazol-3-amine, 4-propyl- | 126 | C5H10N4 | 058661-97-5 | 27 |
| 3 | 1-Cyclohexen-1-ol, 2,6-dimethyl-... | 168 | C10H16O2 | 006203-89-0 | 27 |
| 4 | Benzene, 1-fluoro-2-methoxy- | 126 | C7H7FO | 000321-28-8 | 27 |
| 5 | Maltol | 126 | C6H6O3 | 000118-71-8 | 25 |



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Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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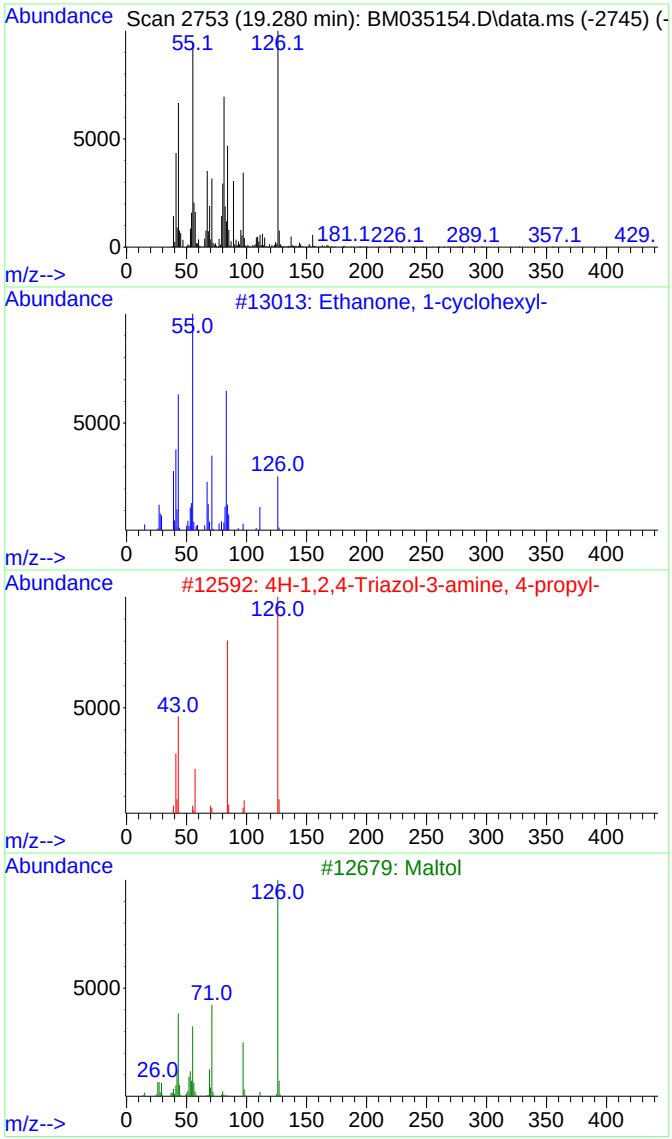
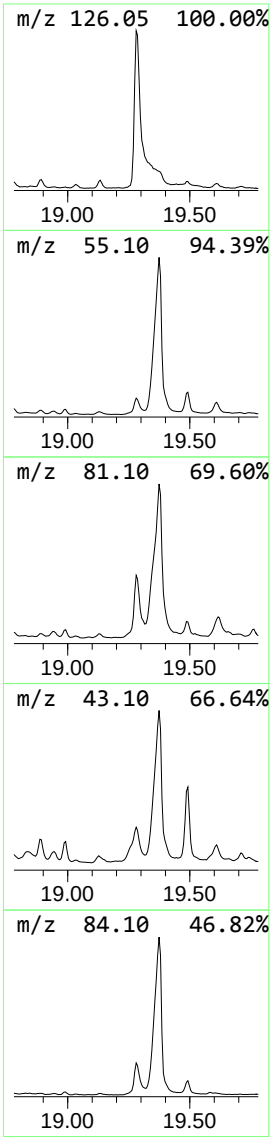
Peak Number 16 unknown19.280 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.280 | 51.22 ng | 4787950 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-cyclohexyl- | 126 | C8H14O | 000823-76-7 | 38 |
| 2 | 4H-1,2,4-Triazol-3-amine, 4-propyl- | 126 | C5H10N4 | 058661-97-5 | 38 |
| 3 | Maltol | 126 | C6H6O3 | 000118-71-8 | 38 |
| 4 | 1,2,4-Benzenetriol | 126 | C6H6O3 | 000533-73-3 | 27 |
| 5 | 3H-Pyrazol-3-one, 2,4-dihydro-2,... | 126 | C6H10N2O | 017826-82-3 | 27 |



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Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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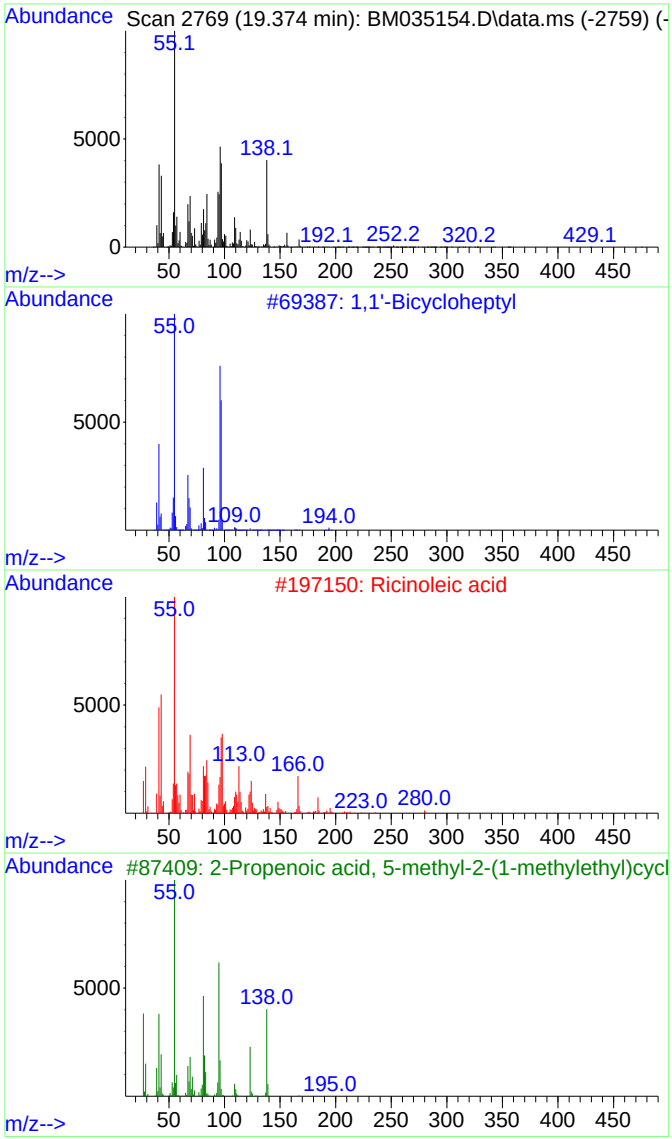
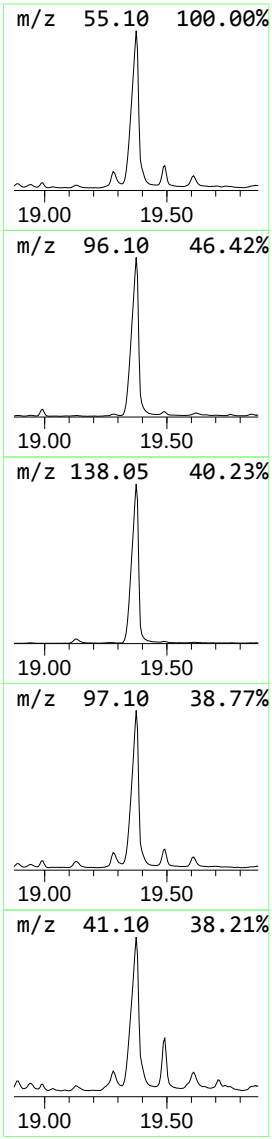
Peak Number 17 unknown19.374 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.374 | 414.61 ng | 38757000 | Phenanthrene-d10 | 17.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Bicycloheptyl | 194 | C14H26 | 023183-11-1 | 35 |
| 2 | Ricinoleic acid | 298 | C18H34O3 | 000141-22-0 | 25 |
| 3 | 2-Propenoic acid, 5-methyl-2-(1-... | 210 | C13H22O2 | 082277-50-7 | 22 |
| 4 | Cyclohexanemethanol, 4-methyl-, ... | 128 | C8H16O | 003937-48-2 | 22 |
| 5 | 1-Nonylcycloheptane | 224 | C16H32 | 1000371-47-7 | 16 |



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Acq On : 19 May 2022 15:48
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Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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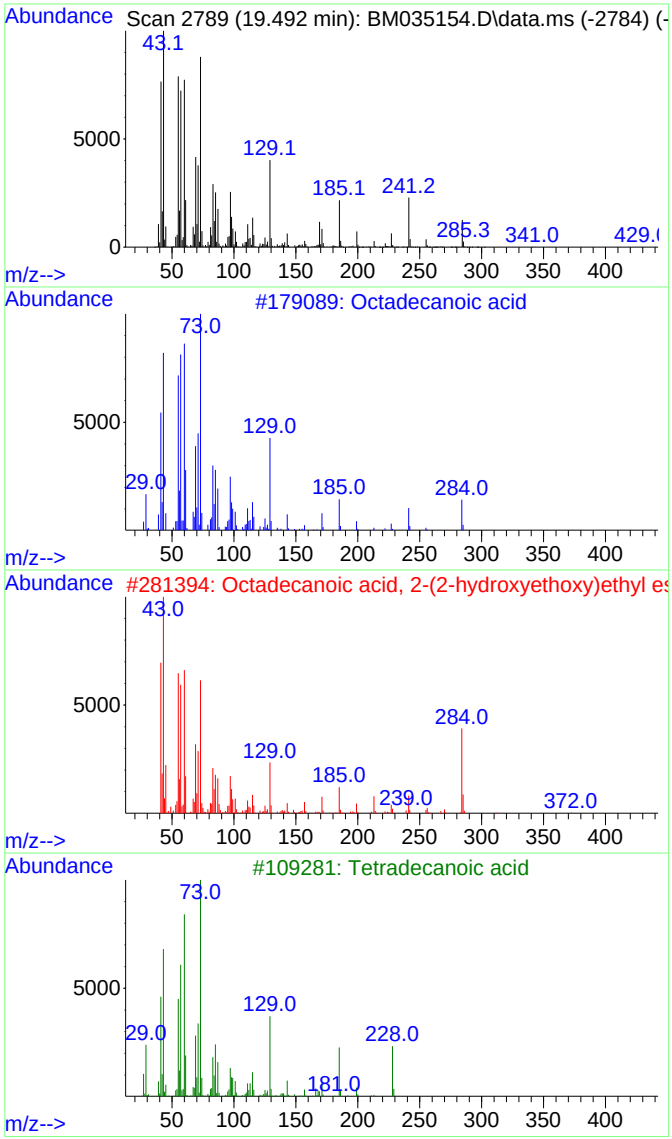
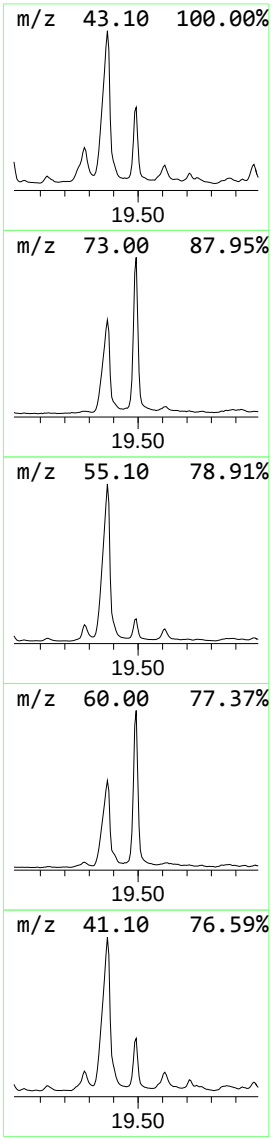
Peak Number 18 Octadecanoic acid Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.492 | 55.15 ng | 6260190 | Chrysene-d12 | 21.474 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 83 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 81 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 78 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 70 |



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Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

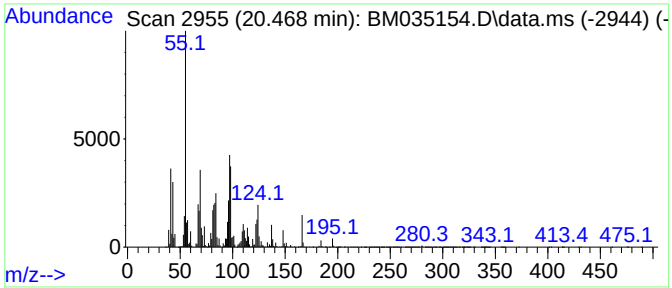
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

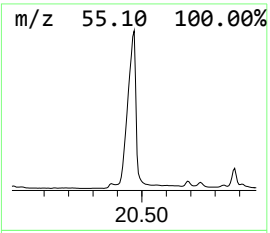
**********

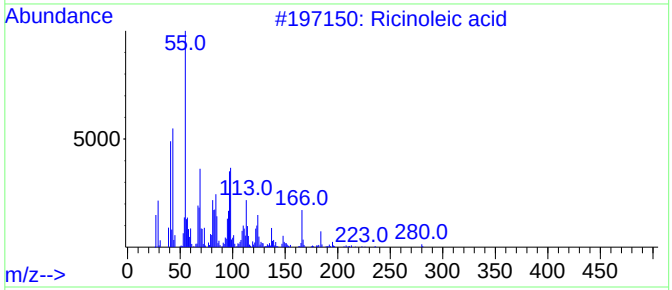
Peak Number 19 Ricinoleic acid Concentration Rank 2

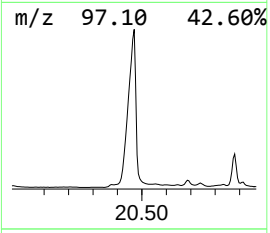
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.468 | 487.17 ng | 55298700 | Chrysene-d12 | 21.474 |

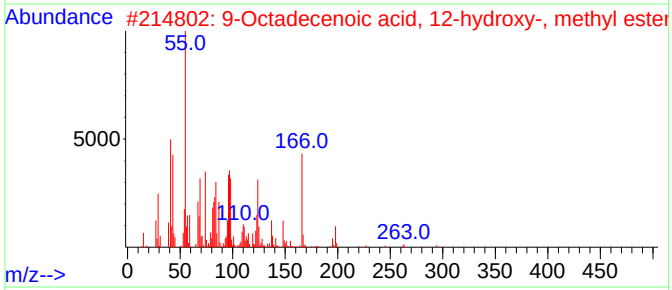
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ricinoleic acid | 298 | C18H34O3 | 000141-22-0 | 83 |
| 2 | 9-Octadecenoic acid, 12-hydroxy-... | 312 | C19H36O3 | 000141-24-2 | 72 |
| 3 | 9-Octadecenoic acid, 12-hydroxy- | 298 | C18H34O3 | 007431-95-0 | 68 |
| 4 | 9-Octadecenoic acid, 12-hydroxy-... | 326 | C20H38O3 | 055066-53-0 | 58 |
| 5 | Undecanenitrile, 11-bromo- | 245 | C11H20BrN | 006948-45-4 | 38 |

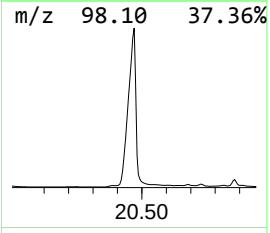


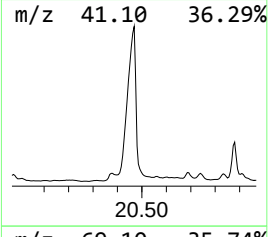



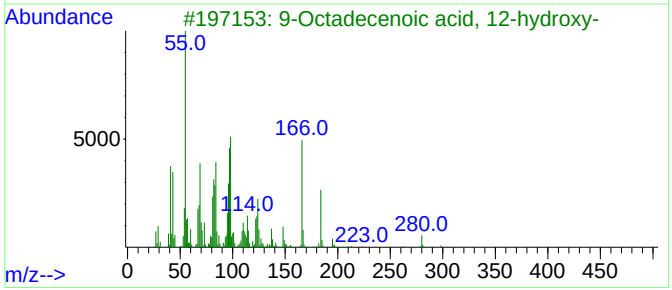



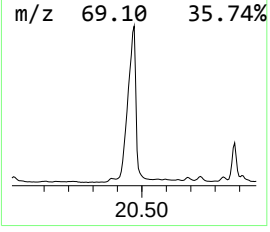



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

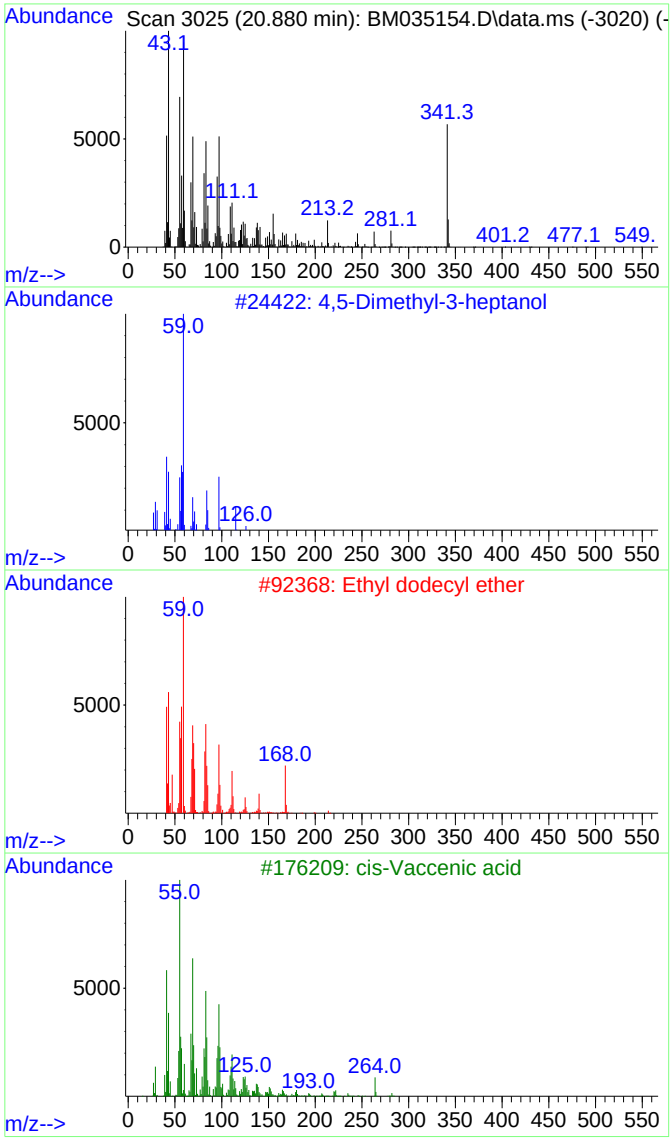
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

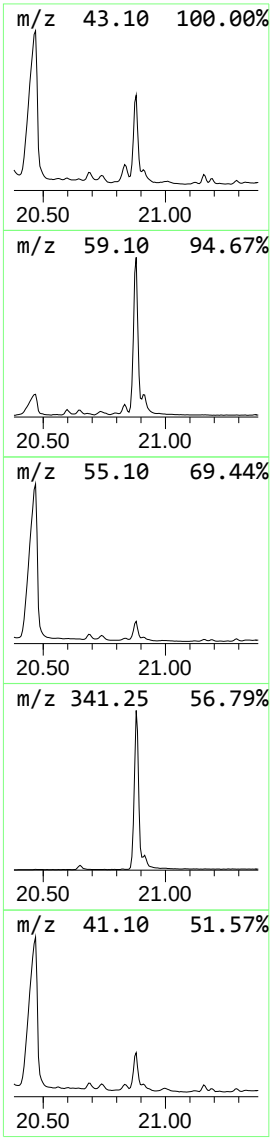
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 unknown20.880 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.880 | 73.41 ng | 8332770 | Chrysene-d12 | 21.474 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,5-Dimethyl-3-heptanol | 144 | C9H20O | 019549-76-9 | 38 |
| 2 | Ethyl dodecyl ether | 214 | C14H30O | 007289-37-4 | 38 |
| 3 | cis-Vaccenic acid | 282 | C18H34O2 | 000506-17-2 | 30 |
| 4 | 9-Nonadecene | 266 | C19H38 | 031035-07-1 | 27 |
| 5 | cis-13-Octadecenoic acid | 282 | C18H34O2 | 013126-39-1 | 27 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051922\
Data File : BM035154.D
Acq On : 19 May 2022 15:48
Operator : CG/JU
Sample : N2902-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Amphetaminil | 10.245 | 37.7 | ng | 3408070 | 2 | 10.704 | 1809800 | 20.0 |
| Ethyl cycloprop... | 12.398 | 62.8 | ng | 5682090 | 2 | 10.704 | 1809800 | 20.0 |
| 2(3H)-Furanone,... | 14.227 | 376.6 | ng | 29048000 | 3 | 14.545 | 1542860 | 20.0 |
| unknown14.657 | 14.657 | 139.2 | ng | 10734100 | 3 | 14.545 | 1542860 | 20.0 |
| Dodecanoic acid | 15.016 | 58.7 | ng | 4525550 | 3 | 14.545 | 1542860 | 20.0 |
| Spiro[3.3]hepta... | 16.110 | 60.0 | ng | 5610550 | 4 | 17.292 | 1869560 | 20.0 |
| 2-Oxepanone, 7-... | 16.145 | 131.5 | ng | 12294700 | 4 | 17.292 | 1869560 | 20.0 |
| unknown16.733 | 16.733 | 322.4 | ng | 30135800 | 4 | 17.292 | 1869560 | 20.0 |
| unknown16.833 | 16.833 | 68.9 | ng | 6440390 | 4 | 17.292 | 1869560 | 20.0 |
| unknown17.933 | 17.933 | 84.7 | ng | 7917110 | 4 | 17.292 | 1869560 | 20.0 |
| 1H-Imidazole, 1... | 18.157 | 1456.1 | ng | 136109000 | 4 | 17.292 | 1869560 | 20.0 |
| n-Hexadecanoic ... | 18.239 | 77.3 | ng | 7225860 | 4 | 17.292 | 1869560 | 20.0 |
| unknown18.480 | 18.480 | 99.7 | ng | 9316610 | 4 | 17.292 | 1869560 | 20.0 |
| unknown18.604 | 18.604 | 68.3 | ng | 6385430 | 4 | 17.292 | 1869560 | 20.0 |
| unknown18.657 | 18.657 | 86.7 | ng | 8101260 | 4 | 17.292 | 1869560 | 20.0 |
| unknown19.280 | 19.280 | 51.2 | ng | 4787950 | 4 | 17.292 | 1869560 | 20.0 |
| unknown19.374 | 19.374 | 414.6 | ng | 38757000 | 4 | 17.292 | 1869560 | 20.0 |
| Octadecanoic acid | 19.492 | 55.1 | ng | 6260190 | 5 | 21.474 | 2270210 | 20.0 |
| Ricinoleic acid | 20.468 | 487.2 | ng | 55298700 | 5 | 21.474 | 2270210 | 20.0 |
| unknown20.880 | 20.880 | 73.4 | ng | 8332770 | 5 | 21.474 | 2270210 | 20.0 |