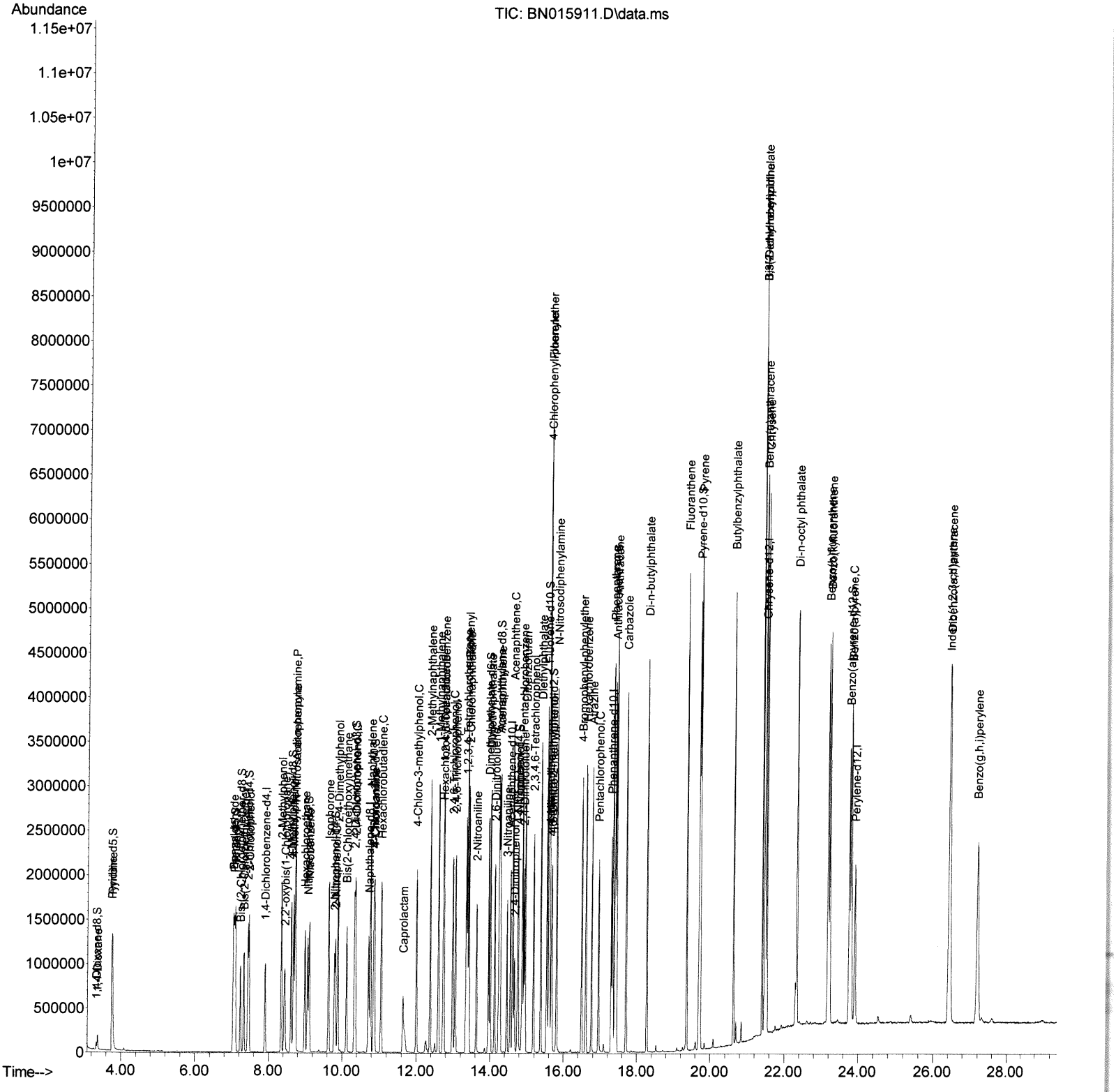
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM

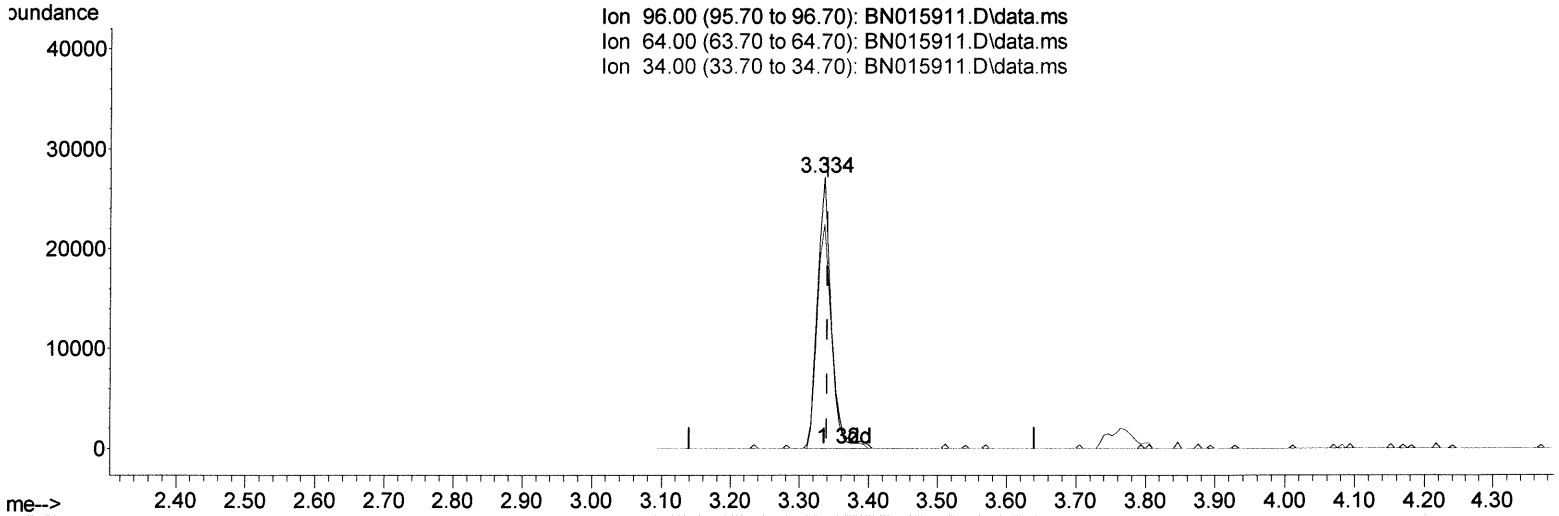


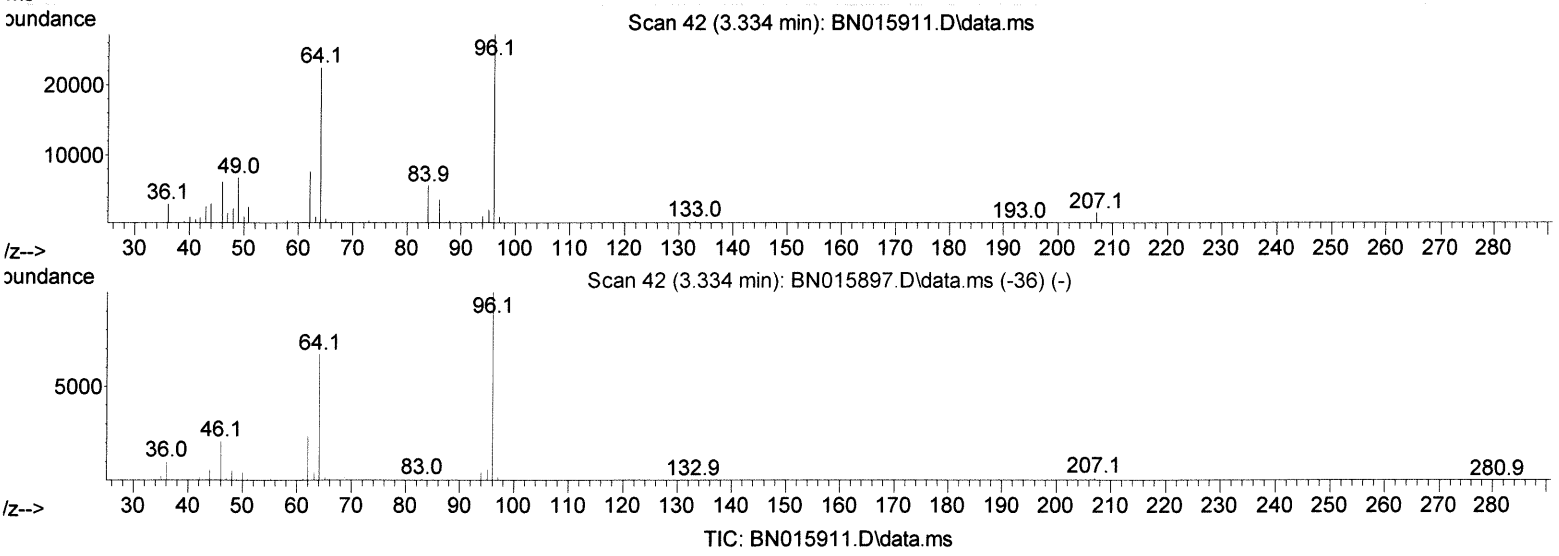
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM







TIC: BN015911.D\data.ms

(3) 1,4-Dioxane-d8 (S)

3.334min (-0.006) 5.44 ng/uL

response 36419

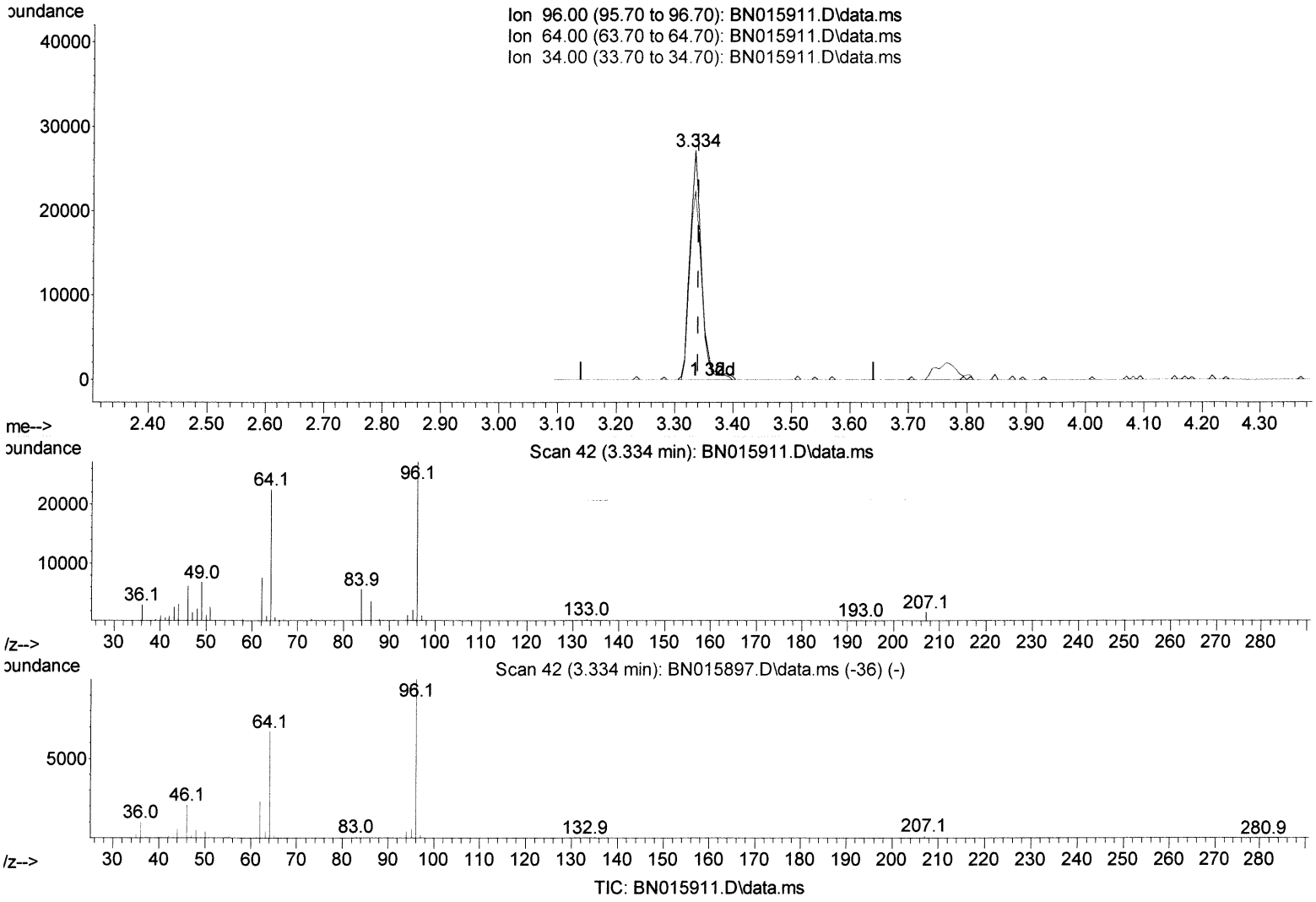
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100.00 | 100.00 |
| 64.00 | 82.10 | 82.58 |
| 34.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM




(3) 1,4-Dioxane-d8 (S)

3.334min (-0.006) 5.56 ng/uL m 08/31/21 JU

response 37231

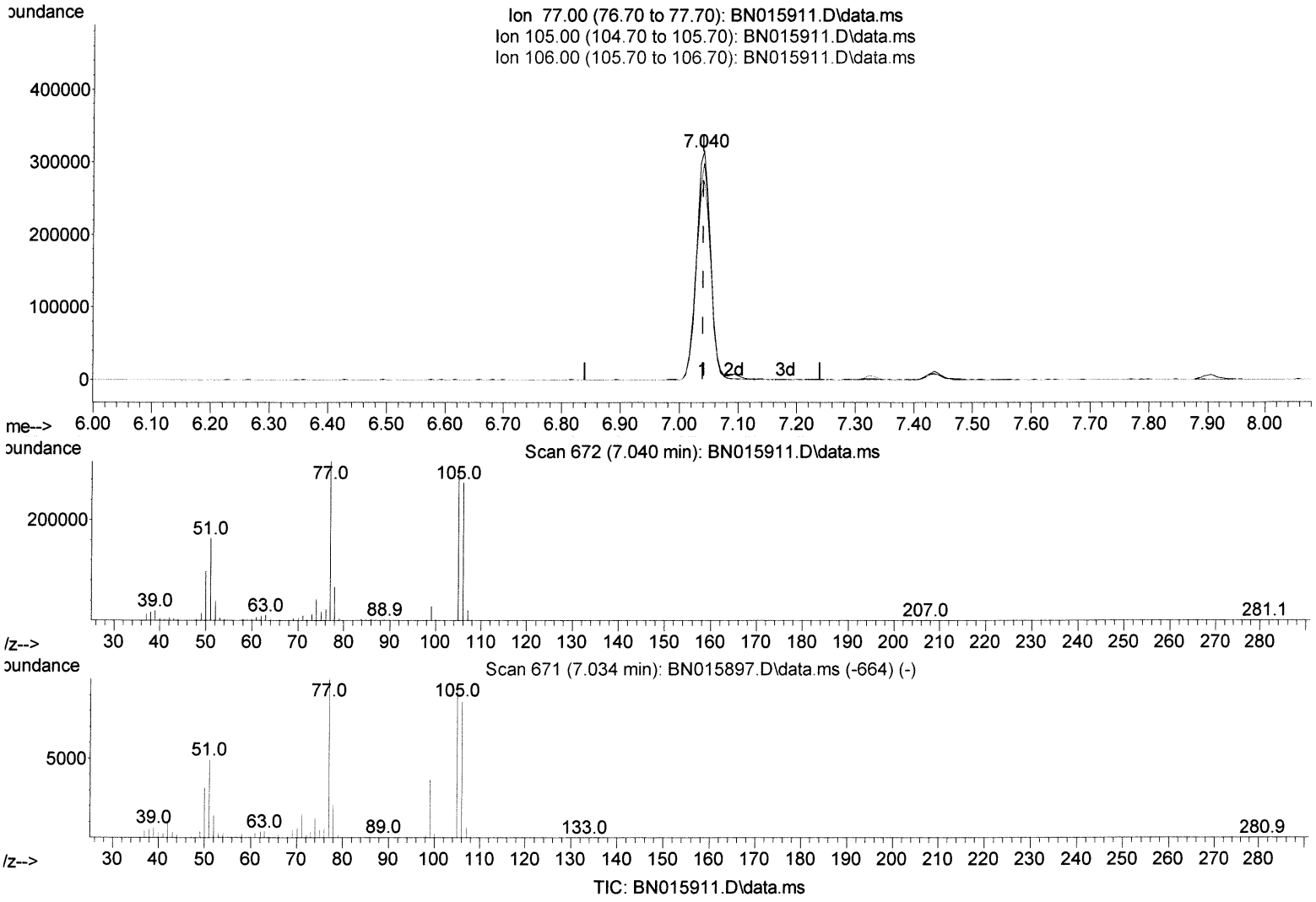
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100.00 | 100.00 |
| 64.00 | 82.10 | 82.58 |
| 34.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM




**(6) Benzaldehyde**

**7.040min (+ 0.000) 43.78 ng/ul**

**response 531342**

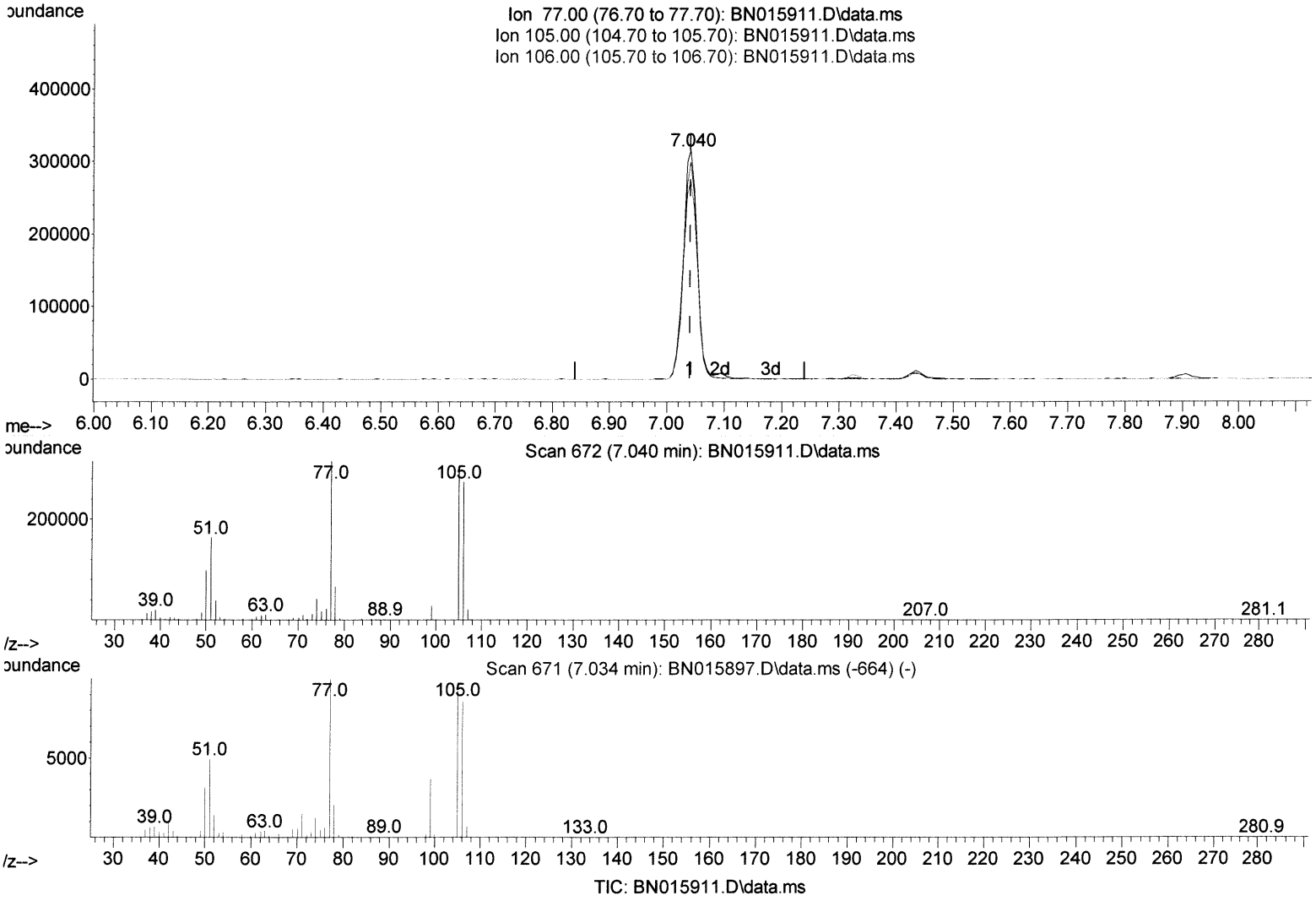
| Ion | Exp% | Act% |
|---|---|---|
| 77.00 | 100.00 | 100.00 |
| 105.00 | 91.70 | 94.81 |
| 106.00 | 87.90 | 86.95 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM




(6) Benzaldehyde

7.040min (+ 0.000) 44.61 ng/ul m 08/31/21JU

response 541390

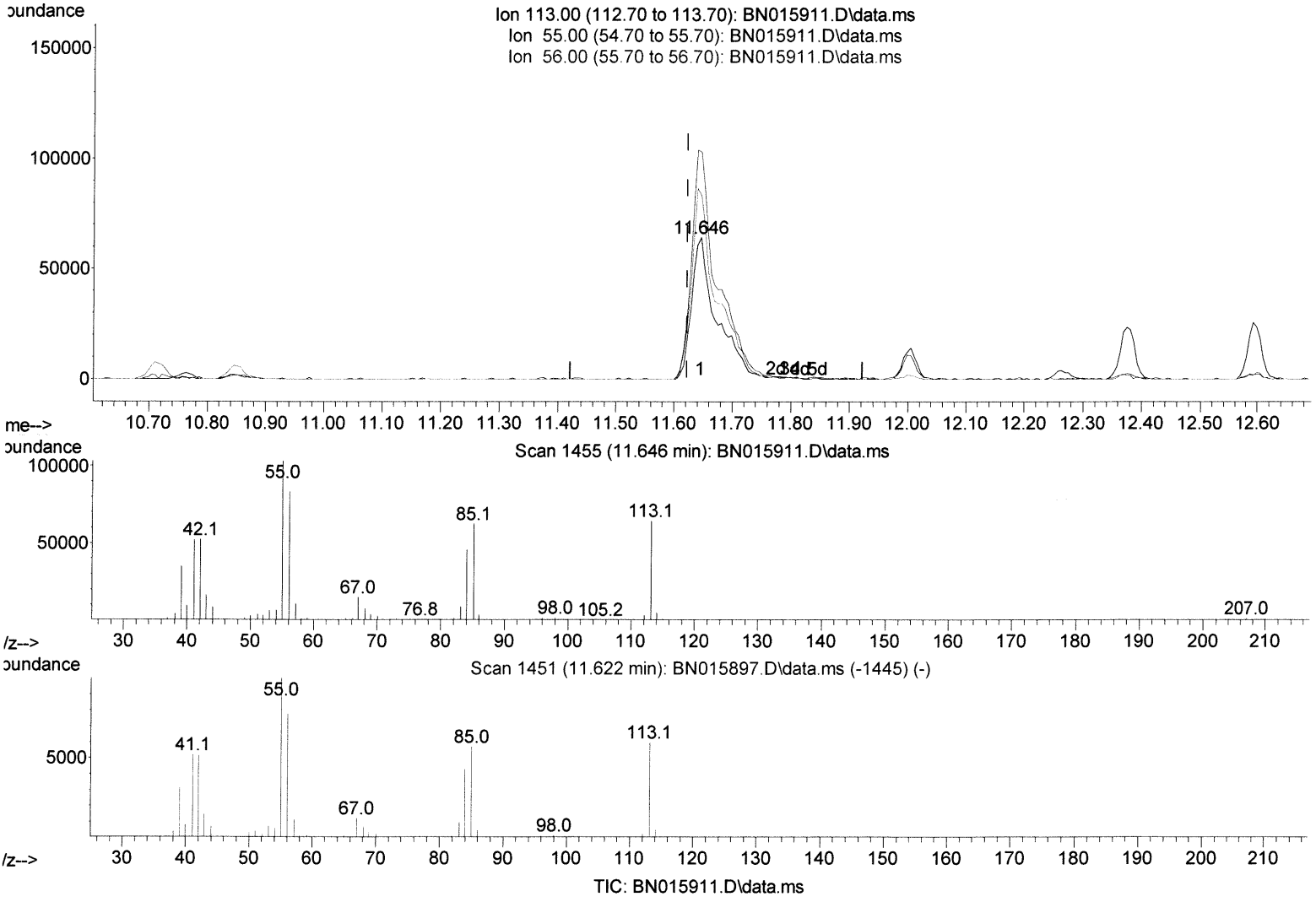
| Ion | Exp% | Act% |
|---|---|---|
| 77.00 | 100.00 | 100.00 |
| 105.00 | 91.70 | 94.81 |
| 106.00 | 87.90 | 86.95 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM




(34) Caprolactam

11.646min (+ 0.024) 33.28 ng/ul

response 165610

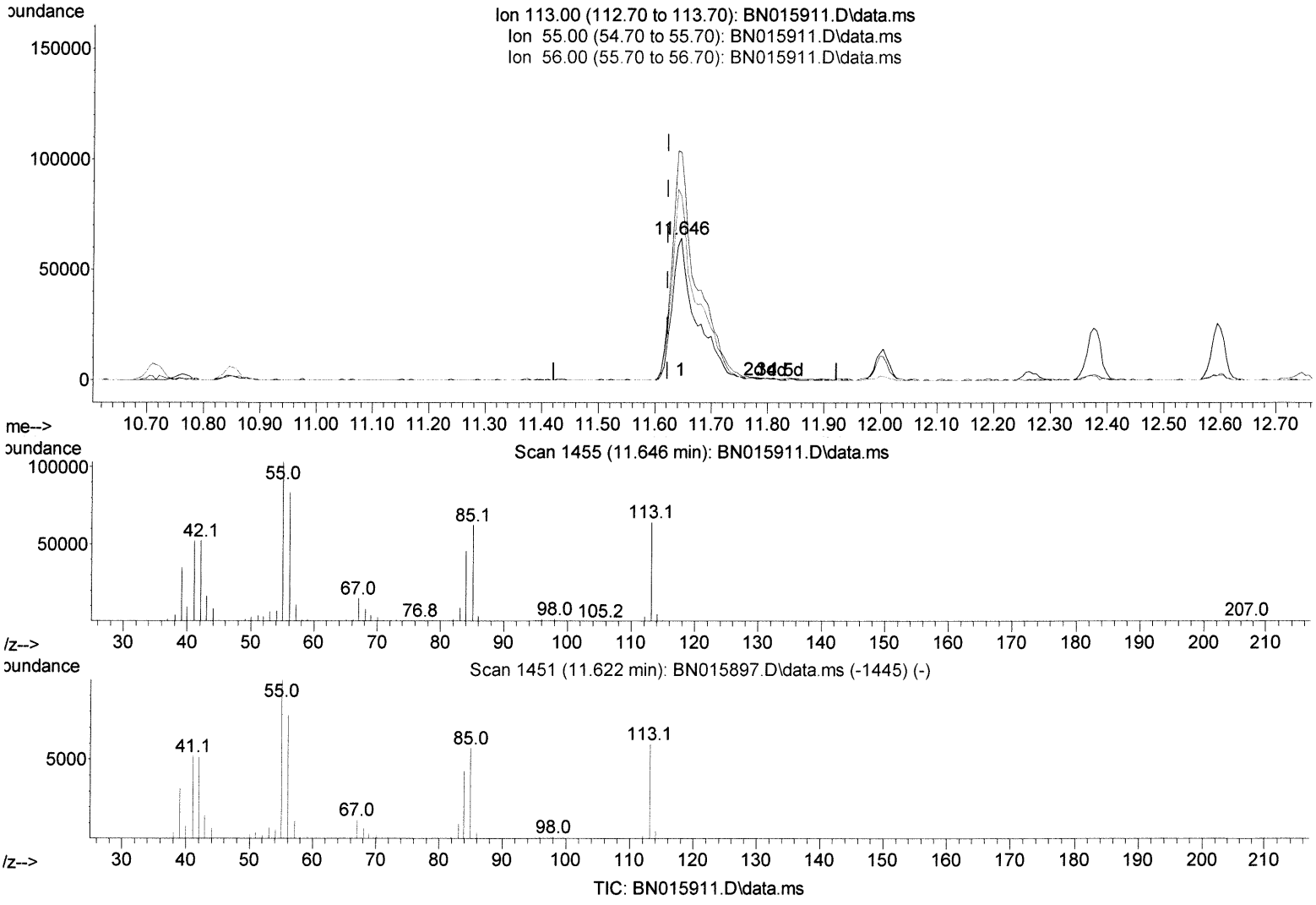
| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100.00 | 100.00 |
| 55.00 | 163.00 | 160.87 |
| 56.00 | 127.80 | 129.99 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM




(34) Caprolactam

11.646min (+ 0.024) 38.51 ng/ul m 08/31/21JU

response 191608

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100.00 | 100.00 |
| 55.00 | 163.00 | 160.87 |
| 56.00 | 127.80 | 129.99 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :** BNA_N
**ClientSampleId :** SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.905 | 152 | 260780 | 20.000 | ng/ul | 0.00 |
| 20) Naphthalene-d8 | 10.716 | 136 | 1080572 | 20.000 | ng/ul | 0.00 |
| 38) Acenaphthene-d10 | 14.551 | 164 | 699636 | 20.000 | ng/ul | 0.00 |
| 64) Phenanthrene-d10 | 17.298 | 188 | 1400039 | 20.000 | ng/ul | 0.00 |
| 79) Chrysene-d12 | 21.486 | 240 | 1334653 | 20.000 | ng/ul | 0.00 |
| 88) Perylene-d12 | 23.910 | 264 | 1327252 | 20.000 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.334 | 96 | 37231m | 5.561 | ng/uL | 0.00 |
| 4) Pyridine-d5 | 3.746 | 84 | 559573 | 29.907 | ng/ul | 0.00 |
| 7) Phenol-d5 | 7.064 | 99 | 777108 | 32.944 | ng/ul | 0.00 |
| 9) Bis-(2-Chloroethyl)eth... | 7.234 | 67 | 447453 | 30.808 | ng/ul | 0.00 |
| 11) 2-Chlorophenol-d4 | 7.434 | 132 | 596670 | 35.547 | ng/ul | 0.00 |
| 15) 4-Methylphenol-d8 | 8.616 | 113 | 618066 | 33.687 | ng/ul | 0.01 |
| 21) Nitrobenzene-d5 | 9.069 | 128 | 284746 | 35.803 | ng/ul | 0.00 |
| 24) 2-Nitrophenol-d4 | 9.793 | 143 | 315852 | 42.434 | ng/ul | 0.00 |
| 28) 2,4-Dichlorophenol-d3 | 10.334 | 165 | 597529 | 37.097 | ng/ul | 0.00 |
| 31) 4-Chloroaniline-d4 | 10.852 | 131 | 769526 | 31.386 | ng/ul | 0.00 |
| 46) Dimethylphthalate-d6 | 13.963 | 166 | 1763850 | 34.400 | ng/ul | 0.00 |
| 49) Acenaphthylene-d8 | 14.246 | 160 | 2184339 | 34.017 | ng/ul | 0.00 |
| 54) 4-Nitrophenol-d4 | 14.751 | 143 | 312721 | 34.483 | ng/ul | 0.02 |
| 60) Fluorene-d10 | 15.545 | 176 | 1482460 | 33.146 | ng/ul | 0.00 |
| 65) 4,6-Dinitro-2-methylph... | 15.663 | 200 | 282890 | 37.835 | ng/ul | 0.00 |
| 73) Anthracene-d10 | 17.398 | 188 | 2320680 | 35.365 | ng/ul | 0.00 |
| 81) Pyrene-d10 | 19.692 | 212 | 2647871 | 36.833 | ng/ul | 0.00 |
| 92) Benzo(a)pyrene-d12 | 23.757 | 264 | 2484235 | 34.617 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.370 | 88 | 86593 | 12.582 | ng/uL | 89 |
| 5) Pyridine | 3.764 | 79 | 589563 | 30.562 | ng/ul | 97 |
| 6) Benzaldehyde | 7.040 | 77 | 541390m | 44.606 | ng/ul | 0 |
| 8) Phenol | 7.093 | 94 | 832519 | 34.620 | ng/ul | 97 |
| 10) Bis(2-Chloroethyl)ether | 7.328 | 93 | 632714 | 33.585 | ng/ul | 96 |
| 12) 2-Chlorophenol | 7.464 | 128 | 633793 | 36.735 | ng/ul | 99 |
| 13) 2-Methylphenol | 8.346 | 108 | 618233 | 35.097 | ng/ul | 93 |
| 14) 2,2'-oxybis(1-Chloropr... | 8.440 | 45 | 773319 | 32.142 | ng/ul# | 95 |
| 16) Acetophenone | 8.728 | 105 | 1007463 | 34.027 | ng/ul | 97 |
| 17) N-Nitroso-di-n-propyla... | 8.716 | 70 | 526720 | 36.431 | ng/ul | 100 |
| 18) 4-Methylphenol | 8.675 | 108 | 667517 | 35.407 | ng/ul | 98 |
| 19) Hexachloroethane | 8.987 | 117 | 275732 | 35.193 | ng/ul | 87 |
| 22) Nitrobenzene | 9.111 | 77 | 802687 | 35.693 | ng/ul | 96 |
| 23) Isophorone | 9.640 | 82 | 1423938 | 36.395 | ng/ul | 100 |
| 25) 2-Nitrophenol | 9.828 | 139 | 349426 | 43.048 | ng/ul | 94 |
| 26) 2,4-Dimethylphenol | 9.887 | 107 | 745142 | 34.368 | ng/ul | 98 |
| 27) Bis(2-Chloroethoxy)met... | 10.122 | 93 | 832580 | 34.646 | ng/ul | 99 |
| 29) 2,4-Dichlorophenol | 10.357 | 162 | 608440 | 38.313 | ng/ul | 98 |
| 30) Naphthalene | 10.763 | 128 | 1971019 | 34.057 | ng/ul | 100 |
| 32) 4-Chloroaniline | 10.875 | 127 | 783264 | 32.358 | ng/ul | 97 |
| 33) Hexachlorobutadiene | 11.052 | 225 | 426213 | 34.929 | ng/ul | 99 |
| 34) Caprolactam | 11.646 | 113 | 191608m | 38.509 | ng/ul | 0 |
| 35) 4-Chloro-3-methylphenol | 12.004 | 107 | 731590 | 38.892 | ng/ul | 93 |

08/31/21 JU

08/31/21 JU

08/31/21 JU

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081721\
Data File : BN015911.D
Acq On : 17 Aug 2021 22:22
Operator : CG/JU
Sample : PB138401BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 18 01:10:34 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN081621MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 17 09:43:53 2021
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**
mohammad
8/19/2021 1:25:14 PM

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 2-Methylnaphthalene | 12.375 | 142 | 1430412 | 35.542 | ng/ul | 96 |
| 37) 1-Methylnaphthalene | 12.599 | 142 | 1359800 | 33.945 | ng/ul | 98 |
| 39) 1,2,4,5-Tetrachloroben... | 12.746 | 216 | 788778 | 34.850 | ng/ul | 97 |
| 40) Hexachlorocyclopentadiene | 12.728 | 237 | 444944 | 30.322 | ng/ul | 93 |
| 41) 2,4,6-Trichlorophenol | 12.987 | 196 | 497936 | 40.234 | ng/ul | 91 |
| 42) 2,4,5-Trichlorophenol | 13.057 | 196 | 538213 | 39.833 | ng/ul | 96 |
| 43) 1,1'-Biphenyl | 13.387 | 154 | 1829188 | 33.811 | ng/ul | 100 |
| 44) 2-Chloronaphthalene | 13.428 | 162 | 1399548 | 33.503 | ng/ul | 99 |
| 45) 2-Nitroaniline | 13.628 | 65 | 476430 | 40.250 | ng/ul | 96 |
| 47) Dimethylphthalate | 14.010 | 163 | 1806010 | 35.531 | ng/ul | 99 |
| 48) 2,6-Dinitrotoluene | 14.128 | 165 | 377373 | 40.997 | ng/ul | 93 |
| 50) Acenaphthylene | 14.275 | 152 | 2086367 | 34.179 | ng/ul | 99 |
| 51) 3-Nitroaniline | 14.457 | 138 | 376073 | 37.998 | ng/ul | 98 |
| 52) Acenaphthene | 14.616 | 153 | 1509244 | 34.183 | ng/ul | 96 |
| 53) 2,4-Dinitrophenol | 14.657 | 184 | 191343 | 37.411 | ng/ul | 89 |
| 55) 4-Nitrophenol | 14.763 | 109 | 321748 | 36.258 | ng/ul | 97 |
| 56) Dibenzofuran | 14.951 | 168 | 2155390 | 35.310 | ng/ul | 100 |
| 57) 2,4-Dinitrotoluene | 14.910 | 165 | 546134 | 41.192 | ng/ul | 97 |
| 58) 2,3,4,6-Tetrachlorophenol | 15.175 | 232 | 457196 | 40.892 | ng/ul | 98 |
| 59) Diethylphthalate | 15.375 | 149 | 1873418 | 36.860 | ng/ul | 99 |
| 61) Fluorene | 15.598 | 166 | 1780034 | 35.735 | ng/ul | 97 |
| 62) 4-Chlorophenyl-phenyle... | 15.592 | 204 | 901380 | 34.702 | ng/ul | 98 |
| 63) 4-Nitroaniline | 15.622 | 138 | 412306 | 43.479 | ng/ul | 95 |
| 66) 4,6-Dinitro-2-methylph... | 15.675 | 198 | 287918 | 38.716 | ng/ul | 100 |
| 67) N-Nitrosodiphenylamine | 15.810 | 169 | 1493353 | 36.544 | ng/ul | 98 |
| 68) 4-Bromophenyl-phenylether | 16.492 | 248 | 573695 | 38.186 | ng/ul | 99 |
| 69) Hexachlorobenzene | 16.604 | 284 | 657048 | 37.425 | ng/ul | 98 |
| 70) Atrazine | 16.763 | 200 | 555441 | 37.474 | ng/ul | 97 |
| 71) Pentachlorophenol | 16.945 | 266 | 368298 | 37.393 | ng/ul | 95 |
| 72) Phenanthrene | 17.345 | 178 | 2748605 | 36.113 | ng/ul | 98 |
| 74) Anthracene | 17.434 | 178 | 2747147 | 35.354 | ng/ul | 97 |
| 75) 1,2,3,4-Tetrachloroben... | 13.351 | 216 | 784883 | 35.591 | ng/uL | 97 |
| 76) Pentachlorobenzene | 14.869 | 250 | 779084 | 36.294 | ng/uL | 98 |
| 77) Carbazole | 17.704 | 167 | 2447494 | 35.824 | ng/ul | 98 |
| 78) Di-n-butylphthalate | 18.275 | 149 | 3124610 | 40.225 | ng/ul | 99 |
| 80) Fluoranthene | 19.357 | 202 | 3281141 | 37.724 | ng/ul | 99 |
| 82) Pyrene | 19.722 | 202 | 3339761 | 36.893 | ng/ul | 97 |
| 83) Butylbenzylphthalate | 20.622 | 149 | 1375213 | 45.175 | ng/ul | 99 |
| 84) 3,3'-Dichlorobenzidine | 21.404 | 252 | 1080757 | 39.544 | ng/ul | 95 |
| 85) Benzo(a)anthracene | 21.469 | 228 | 3094186 | 36.032 | ng/ul | 98 |
| 86) Bis(2-ethylhexyl)phtha... | 21.404 | 149 | 2000333 | 41.433 | ng/ul# | 96 |
| 87) Chrysene | 21.522 | 228 | 3006527 | 36.162 | ng/ul | 100 |
| 89) Di-n-octyl phthalate | 22.339 | 149 | 3406369 | 40.550 | ng/ul | 100 |
| 90) Benzo(b)fluoranthene | 23.174 | 252 | 3320221 | 38.050 | ng/ul | 97 |
| 91) Benzo(k)fluoranthene | 23.222 | 252 | 3108183 | 35.776 | ng/ul | 96 |
| 93) Benzo(a)pyrene | 23.804 | 252 | 2904167 | 36.767 | ng/ul | 99 |
| 94) Indeno(1,2,3-cd)pyrene | 26.433 | 276 | 3585498 | 36.609 | ng/ul | 98 |
| 95) Dibenzo(a,h)anthracene | 26.451 | 278 | 3043617 | 37.642 | ng/ul | 99 |
| 96) Benzo(g,h,i)perylene | 27.204 | 276 | 2897481 | 35.780 | ng/ul | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**
BNA_N
**ClientSampleId :**
SLCS401

**Manual Integrations APPROVED**

mohammad
8/19/2021 1:25:14 PM