

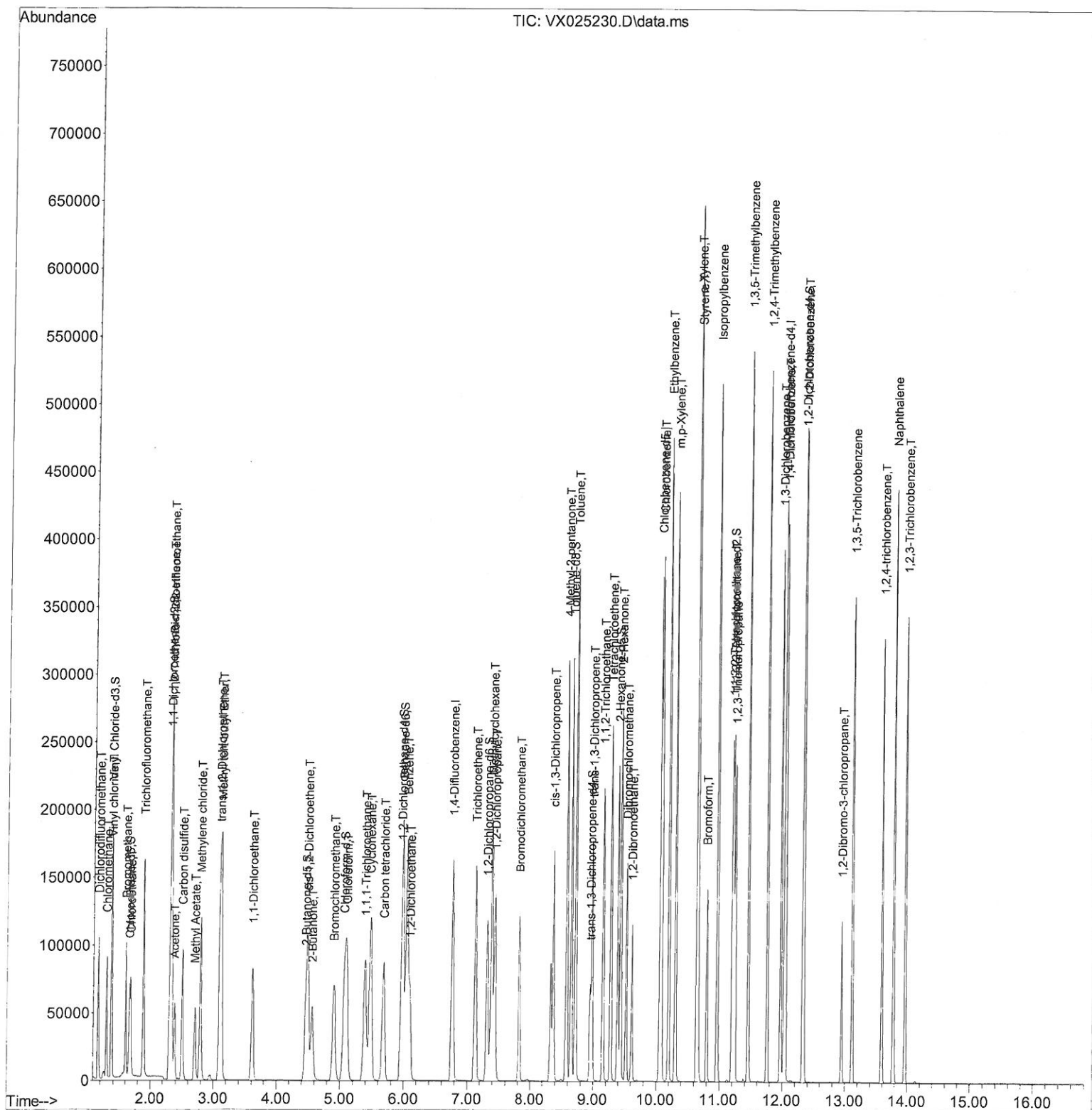
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111921\
 Data File : VX025230.D
 Acq On : 18 Nov 2021 23:28
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampled :
 VSTDCCC050EC

Manual IntegrationsAPPROVED

Quant Time: Nov 19 05:32:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXLM111121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 19 05:25:45 2021
 Response via : Initial Calibration

Reviewed By :John Carlone 11/19/2021
 Supervised By :Mahesh Dadoda 11/22/2021



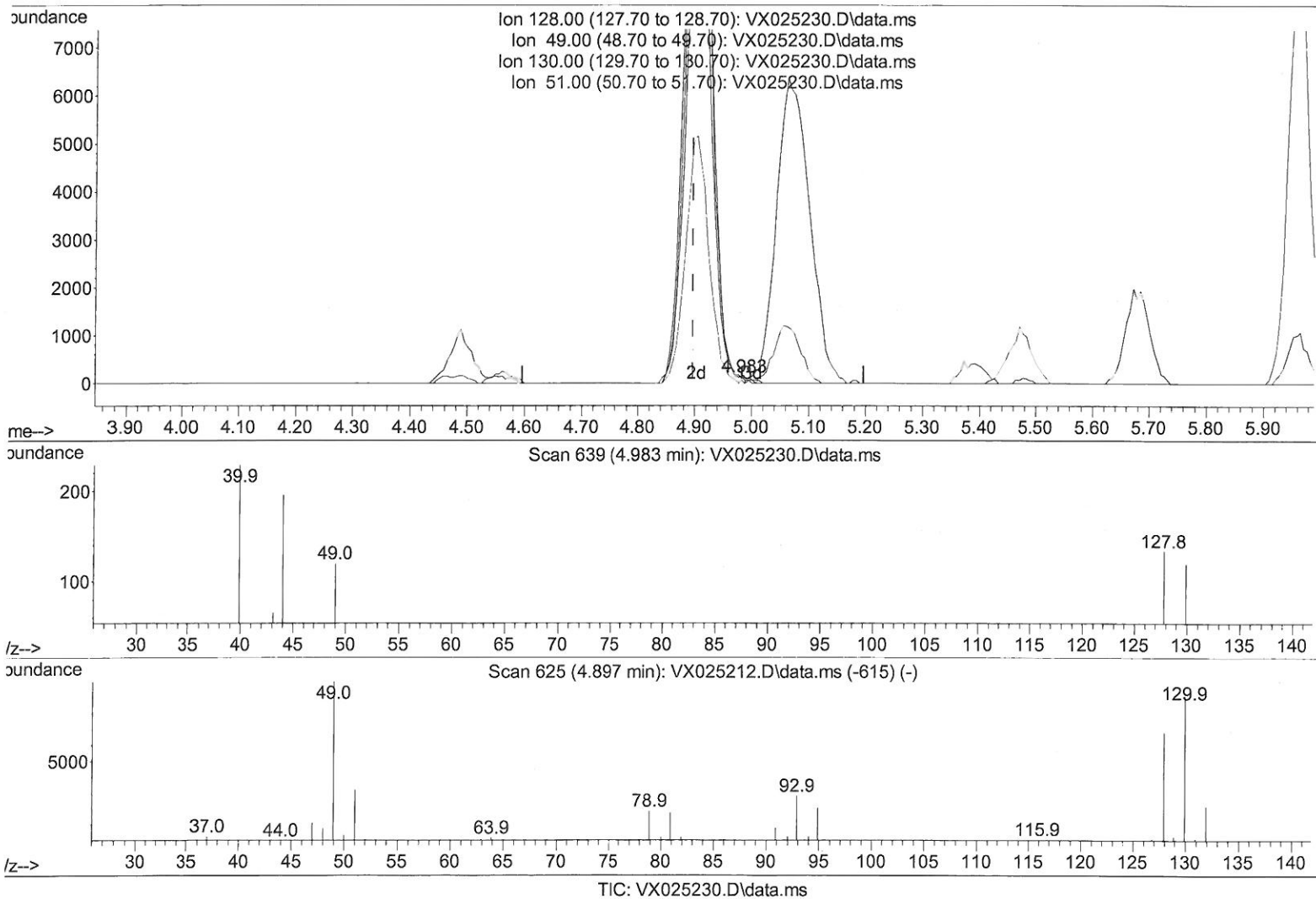
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(23) Bromochloromethane (T)

4.983min (+ 0.086) 0.10 ug/L

response 68

| Ion | Exp% | Act% |
|--------|--------|--------|
| 128.00 | 100.00 | 100.00 |
| 49.00 | 102.10 | 89.55 |
| 130.00 | 120.40 | 89.55 |
| 51.00 | 34.90 | 40.30 |

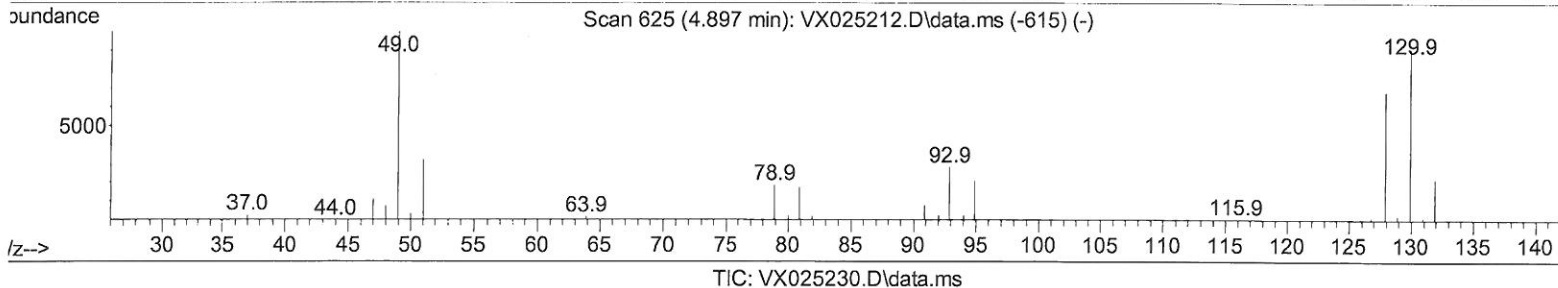
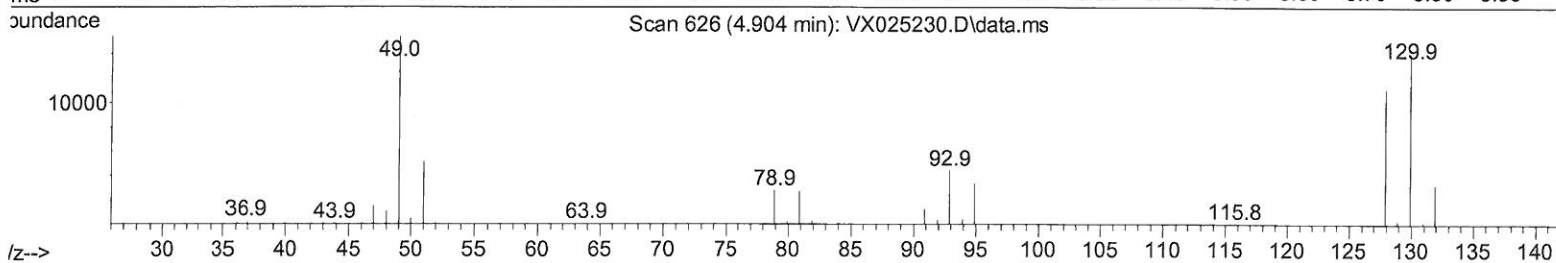
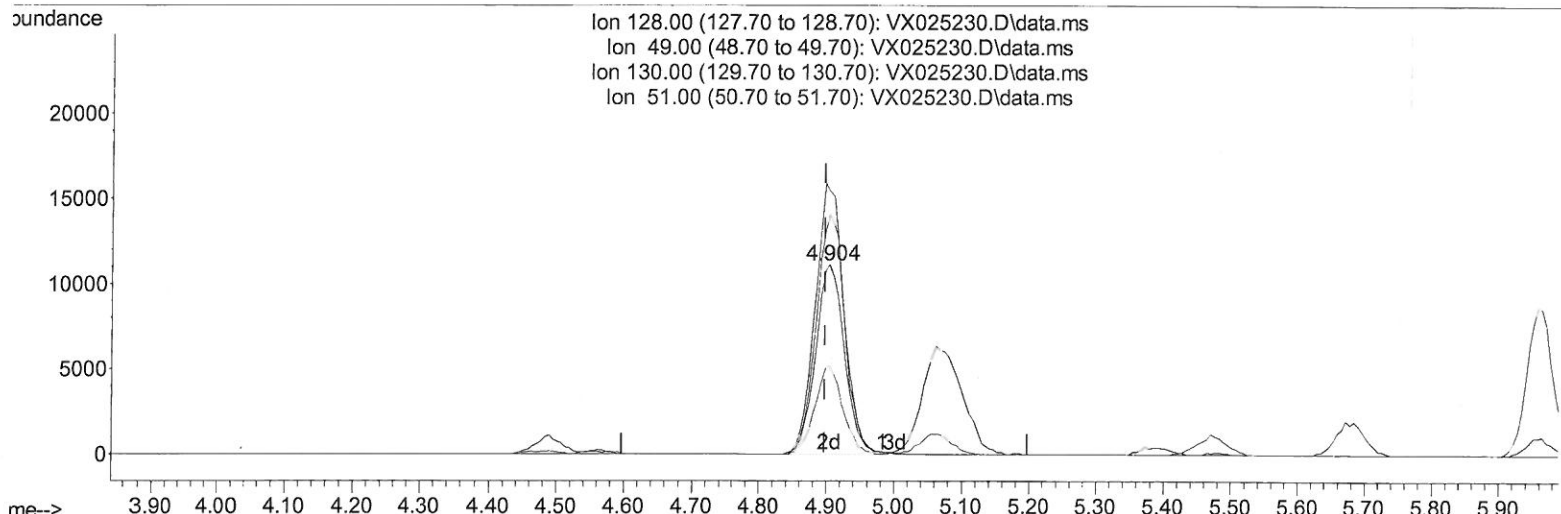
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(23) Bromochloromethane (T)

4.904min (+ 0.006) 46.61 ug/L m

response 32899

| Ion | Exp% | Act% |
|--------|--------|---------|
| 128.00 | 100.00 | 100.00 |
| 49.00 | 102.10 | 139.26# |
| 130.00 | 120.40 | 126.58 |
| 51.00 | 34.90 | 46.49# |

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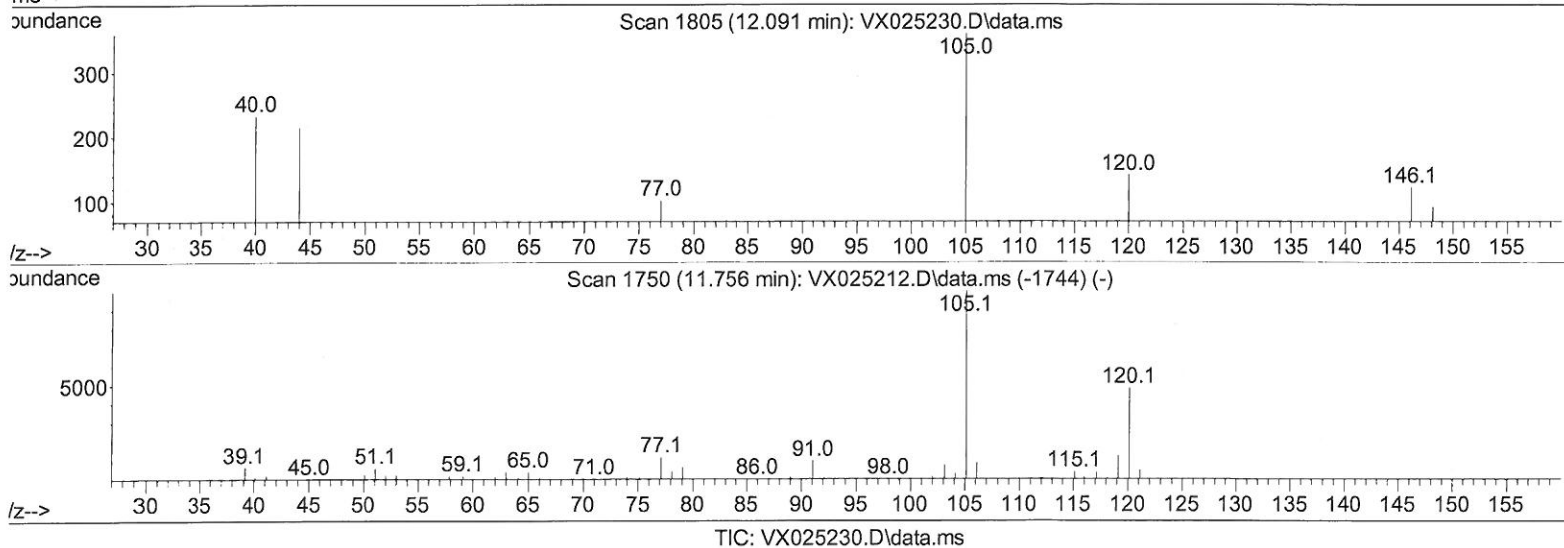
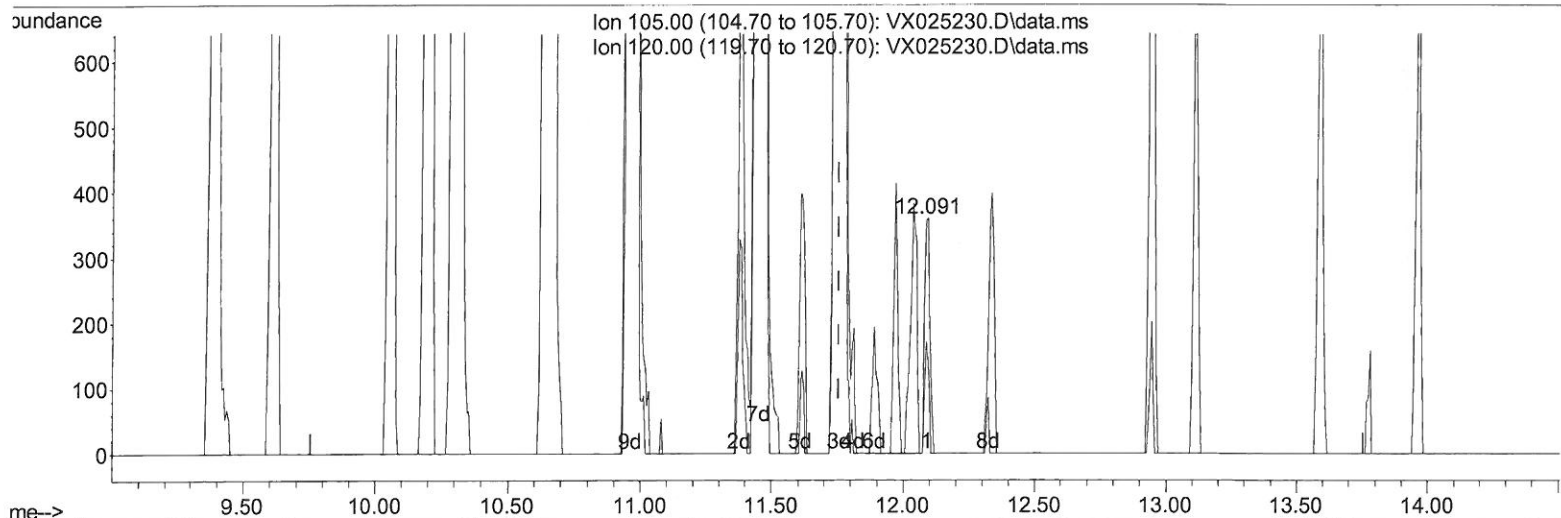
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(63) 1,2,4-Trimethylbenzene

12.091min (+ 0.336) 0.09 ug/L

response 486

| Ion | Exp% | Act% |
|--------|--------|--------|
| 105.00 | 100.00 | 100.00 |
| 120.00 | 38.80 | 37.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

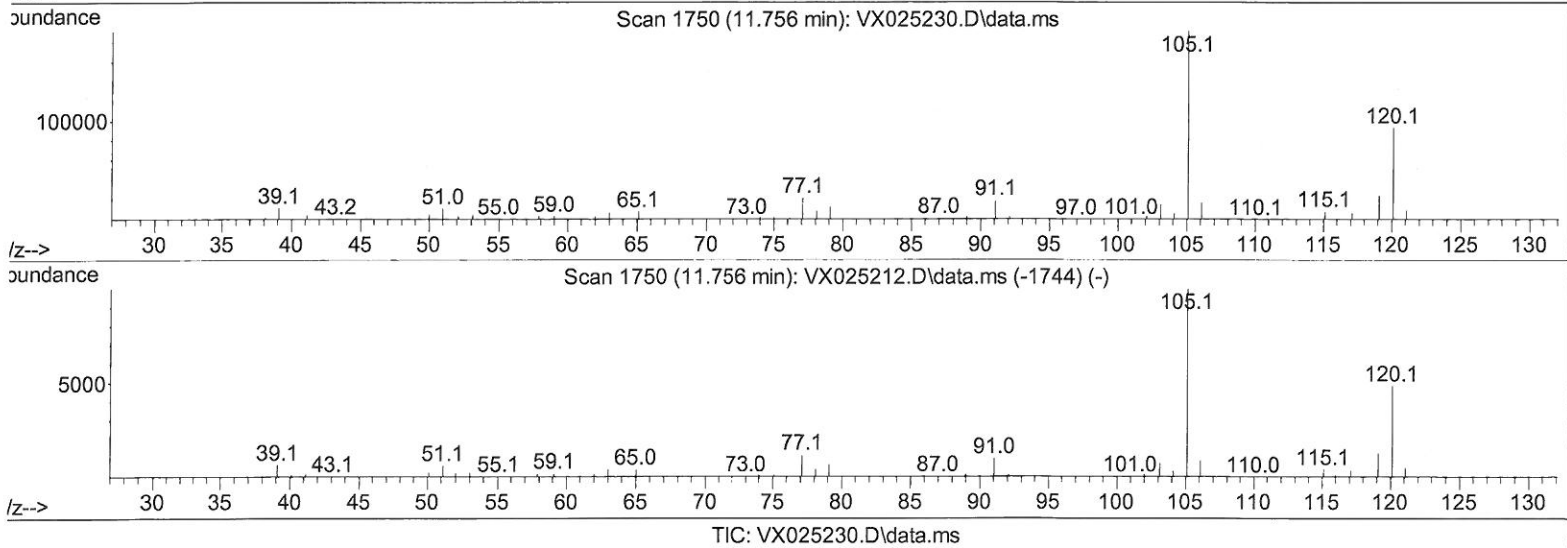
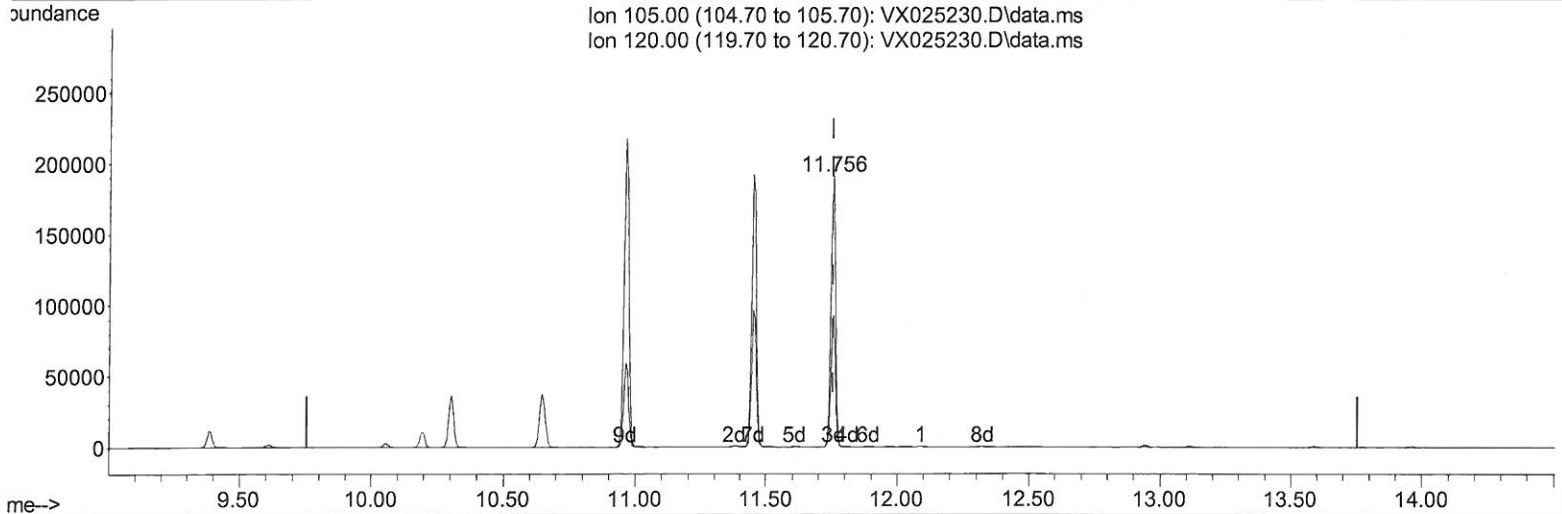
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(63) 1,2,4-Trimethylbenzene

11.756min (+ 0.000) 44.90 ug/L m

response 232402

| Ion | Exp% | Act% |
|--------|--------|--------|
| 105.00 | 100.00 | 100.00 |
| 120.00 | 38.80 | 0.08# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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 11/23/21

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 Quant Title : VOC Analysis
 Last Update : Fri Nov 19 05:25:45 2021
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| Internal Standards | | | | | | |
| 1) 1,4-Difluorobenzene | 6.763 | 114 | 178942 | 50.000 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 10.055 | 117 | 167126 | 50.000 | ug/L | 0.00 |
| 58) 1,4-Dichlorobenzene-d4 | 12.024 | 152 | 85033 | 50.000 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) Vinyl Chloride-d3 | 1.368 | 65 | 52061 | 43.065 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = | 86.120% | | |
| 7) Chloroethane-d5 | 1.660 | 69 | 43379 | 62.960 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = | 125.920% | | |
| 11) 1,1-Dichloroethene-d2 | 2.307 | 63 | 86909 | 41.799 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = | 83.600% | | |
| 21) 2-Butanone-d5 | 4.459 | 46 | 88216 | 96.564 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = | 96.560% | | |
| 24) Chloroform-d | 5.062 | 84 | 98302 | 46.223 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = | 92.440% | | |
| 26) 1,2-Dichloroethane-d4 | 5.958 | 65 | 59704 | 46.315 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = | 92.640% | | |
| 32) Benzene-d6 | 5.977 | 84 | 196358 | 43.048 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = | 86.100% | | |
| 36) 1,2-Dichloropropane-d6 | 7.312 | 67 | 60464 | 43.413 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = | 86.820% | | |
| 41) Toluene-d8 | 8.653 | 98 | 184803 | 42.425 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = | 84.860% | | |
| 43) trans-1,3-Dichloroprop... | 8.952 | 79 | 30762 | 40.687 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = | 81.380% | | |
| 47) 2-Hexanone-d5 | 9.385 | 63 | 68457 | 91.532 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = | 91.530% | | |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195 | 84 | 90257 | 44.993 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = | 89.980% | | |
| 66) 1,2-Dichlorobenzene-d4 | 12.323 | 152 | 76094 | 45.142 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = | 90.280% | | |

| Target Compounds | | | | | Qvalue |
|-------------------------------|-------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane | 1.167 | 85 | 54502 | 38.971 | ug/L 99 |
| 3) Chloromethane | 1.295 | 50 | 55694 | 36.785 | ug/L 88 |
| 5) Vinyl chloride | 1.374 | 62 | 65746 | 42.109 | ug/L 99 |
| 6) Bromomethane | 1.599 | 94 | 35445 | 59.161 | ug/L 96 |
| 8) Chloroethane | 1.679 | 64 | 41499 | 52.930 | ug/L 99 |
| 9) Trichlorofluoromethane | 1.886 | 101 | 102369 | 44.919 | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.325 | 101 | 51548 | 43.650 | ug/L 96 |
| 12) 1,1-Dichloroethene | 2.319 | 96 | 48834 | 42.803 | ug/L 83 |
| 13) Acetone | 2.380 | 43 | 56797 | 66.278 | ug/L 98 |
| 14) Carbon disulfide | 2.508 | 76 | 121379 | 34.529 | ug/L 99 |
| 15) Methyl Acetate | 2.703 | 43 | 61994 | 44.434 | ug/L # 82 |
| 16) Methylene chloride | 2.788 | 84 | 55703 | 44.135 | ug/L 82 |
| 17) trans-1,2-Dichloroethene | 3.093 | 96 | 52296 | 42.206 | ug/L 88 |
| 18) Methyl tert-butyl Ether | 3.117 | 73 | 176295 | 45.520 | ug/L # 90 |
| 19) 1,1-Dichloroethane | 3.611 | 63 | 93736 | 44.723 | ug/L 94 |
| 20) cis-1,2-Dichloroethene | 4.489 | 96 | 61708 | 45.011 | ug/L 93 |
| 22) 2-Butanone | 4.562 | 43 | 93191 | 81.694 | ug/L 84 |
| 23) Bromochloromethane | 4.904 | 128 | 32899m | 46.611 | ug/L |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 25) Chloroform | 5.099 | 83 | 100937 | 46.986 | ug/L | 99 |
| 27) 1,2-Dichloroethane | 6.092 | 62 | 74953 | 47.586 | ug/L # | 88 |
| 29) Cyclohexane | 5.471 | 56 | 84656 | 39.649 | ug/L | 88 |
| 30) 1,1,1-Trichloroethane | 5.391 | 97 | 92104 | 44.848 | ug/L # | 94 |
| 31) Carbon tetrachloride | 5.684 | 117 | 81370 | 44.871 | ug/L | 98 |
| 33) Benzene | 6.044 | 78 | 219099 | 42.670 | ug/L | 100 |
| 34) Trichloroethene | 7.129 | 95 | 59090 | 44.039 | ug/L | 84 |
| 35) Methylcyclohexane | 7.385 | 83 | 91015 | 40.113 | ug/L | 94 |
| 37) 1,2-Dichloropropane | 7.434 | 63 | 55578 | 43.209 | ug/L | 100 |
| 38) Bromodichloromethane | 7.824 | 83 | 76573 | 43.991 | ug/L | 98 |
| 39) cis-1,3-Dichloropropene | 8.366 | 75 | 87693 | 41.520 | ug/L | 99 |
| 40) 4-Methyl-2-pentanone | 8.574 | 43 | 181520 | 88.796 | ug/L # | 84 |
| 42) Toluene | 8.720 | 91 | 244275 | 43.799 | ug/L | 94 |
| 44) trans-1,3-Dichloropropene | 8.982 | 75 | 85525 | 41.608 | ug/L | 97 |
| 45) 1,1,2-Trichloroethane | 9.153 | 97 | 59701 | 45.965 | ug/L | 100 |
| 46) Tetrachloroethene | 9.275 | 164 | 50424 | 45.042 | ug/L | 89 |
| 48) 2-Hexanone | 9.433 | 43 | 142886 | 85.273 | ug/L # | 84 |
| 49) Dibromochloromethane | 9.525 | 129 | 68425 | 46.149 | ug/L | 94 |
| 50) 1,2-Dibromoethane | 9.610 | 107 | 63913 | 45.979 | ug/L # | 97 |
| 51) Chlorobenzene | 10.080 | 112 | 170052 | 47.454 | ug/L | 96 |
| 52) Ethylbenzene | 10.195 | 91 | 265272 | 44.249 | ug/L | 93 |
| 53) m,p-Xylene | 10.305 | 106 | 106403 | 43.900 | ug/L | 80 |
| 54) o-Xylene | 10.647 | 106 | 106320 | 44.453 | ug/L | 81 |
| 55) Styrene | 10.659 | 104 | 180644 | 44.479 | ug/L | 80 |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 91055 | 44.155 | ug/L | 97 |
| 59) Bromoform | 10.799 | 173 | 52093 | 45.331 | ug/L # | 94 |
| 60) Isopropylbenzene | 10.964 | 105 | 274572 | 45.157 | ug/L | 95 |
| 61) 1,2,3-Trichloropropane | 11.244 | 75 | 74317 | 46.414 | ug/L | 97 |
| 62) 1,3,5-Trimethylbenzene | 11.451 | 105 | 232978 | 45.161 | ug/L | 88 |
| 63) 1,2,4-Trimethylbenzene | 11.756 | 105 | 232402m | 44.902 | ug/L | |
| 64) 1,3-Dichlorobenzene | 11.969 | 146 | 129468 | 46.710 | ug/L | 95 |
| 65) 1,4-Dichlorobenzene | 12.043 | 146 | 125539 | 45.333 | ug/L | 95 |
| 67) 1,2-Dichlorobenzene | 12.335 | 146 | 127526 | 46.324 | ug/L | 93 |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75 | 20954 | 45.248 | ug/L # | 61 |
| 69) 1,3,5-Trichlorobenzene | 13.116 | 180 | 90186 | 44.975 | ug/L | 96 |
| 70) 1,2,4-trichlorobenzene | 13.591 | 180 | 79964 | 45.716 | ug/L | 96 |
| 71) Naphthalene | 13.780 | 128 | 287138 | 48.409 | ug/L | 99 |
| 72) 1,2,3-Trichlorobenzene | 13.963 | 180 | 81448 | 46.970 | ug/L | 96 |

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