

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080723\  
 Data File : VX036825.D  
 Acq On : 07 Aug 2023 09:49  
 Operator : JC/MD  
 Sample : VX0807MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0807MBL01

Quant Time: Aug 08 01:29:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

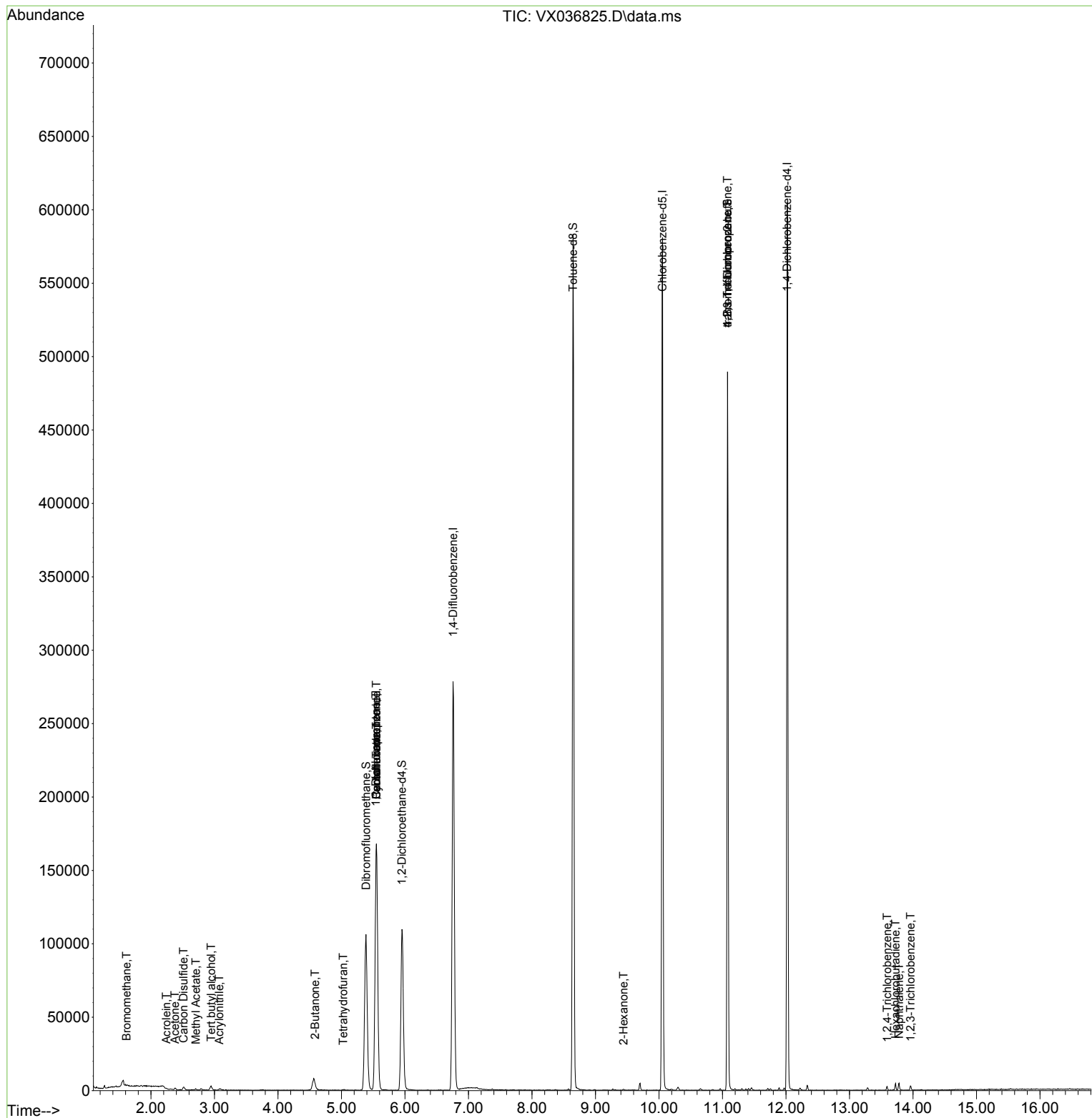
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 155549     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 283779     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 264891     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 119602     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 108322     | 47.064  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.120% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 91595      | 46.959  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.920% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 341098     | 49.313  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.620% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 130400     | 49.968  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 99.940% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 5) Bromomethane               | 1.618          | 94   | 359        | 0.316   | ug/l # | 53       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 1688       | 3.098   | ug/l # | 78       |
| 13) Acrolein                  | 2.240          | 56   | 418        | 1.344   | ug/l # | 69       |
| 15) Acrylonitrile             | 3.075          | 53   | 370        | 0.338   | ug/l # | 88       |
| 16) Acetone                   | 2.380          | 43   | 1134       | 1.187   | ug/l # | 89       |
| 17) Carbon Disulfide          | 2.514          | 76   | 2263       | 0.471   | ug/l # | 92       |
| 18) Methyl Acetate            | 2.709          | 43   | 1102       | 0.274   | ug/l # | 84       |
| 25) 2-Butanone                | 4.587          | 43   | 1012       | 0.653   | ug/l # | 51       |
| 29) Tetrahydrofuran           | 5.026          | 42   | 325        | 0.325   | ug/l # | 44       |
| 31) Cyclohexane               | 5.550          | 56   | 3767       | 1.182   | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 12987      | 4.467   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 16668      | 5.393   | ug/l # | 15       |
| 59) 2-Hexanone                | 9.439          | 43   | 626        | 0.269   | ug/l   | 74       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 68010      | 24.176  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 68010      | 54.795  | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 810        | 0.326   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 644        | 0.627   | ug/l   | 96       |
| 95) Naphthalene               | 13.780         | 128  | 3531       | 0.408   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 907        | 0.371   | ug/l   | 87       |
| -----                         |                |      |            |         |        |          |

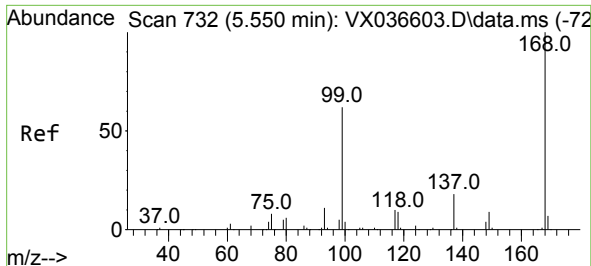
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX036825.D  
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Operator : JC/MD  
Sample : VX0807MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

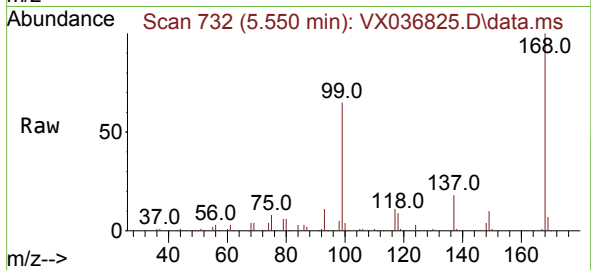
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration



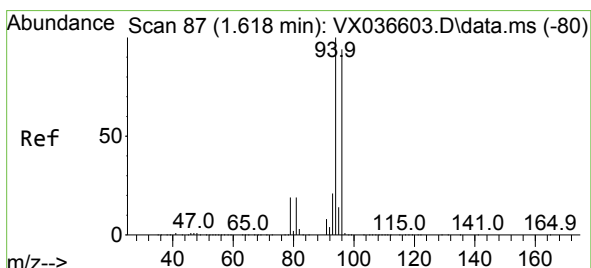
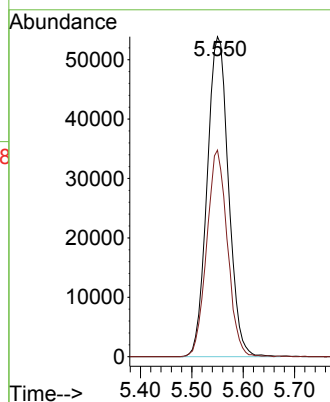
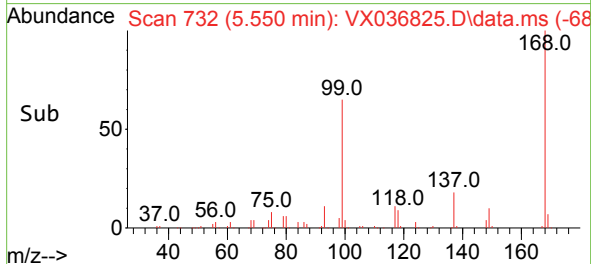


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

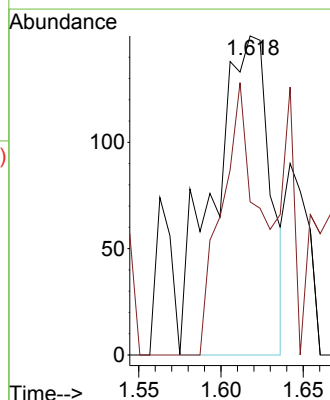
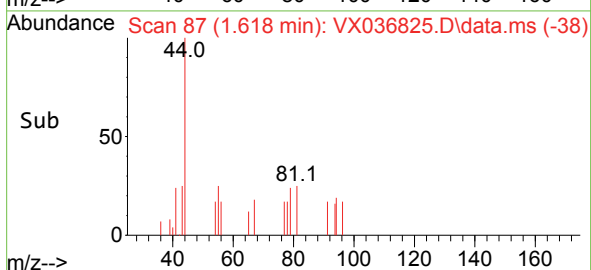
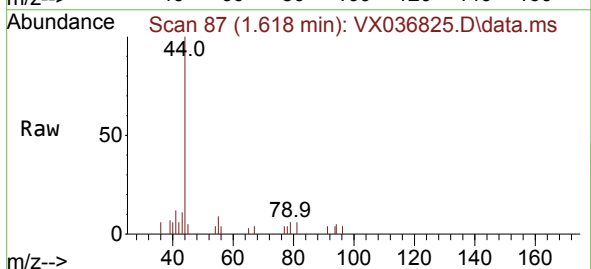


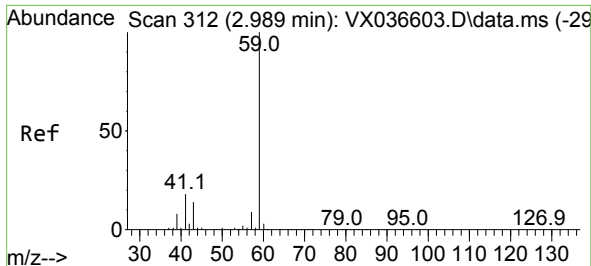
Tgt Ion:168 Resp: 155549  
Ion Ratio Lower Upper  
168 100  
99 64.6 56.6 85.0



#5  
Bromomethane  
Concen: 0.316 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 94 Resp: 359  
Ion Ratio Lower Upper  
94 100  
96 48.0 74.6 111.8#

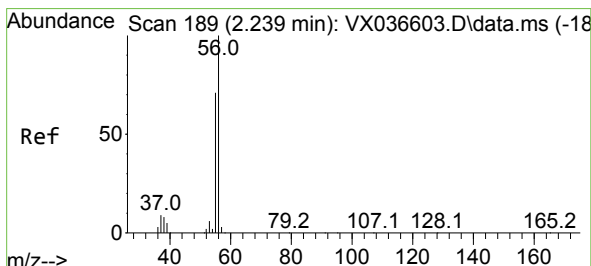
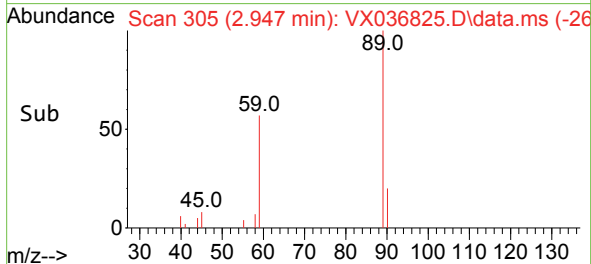
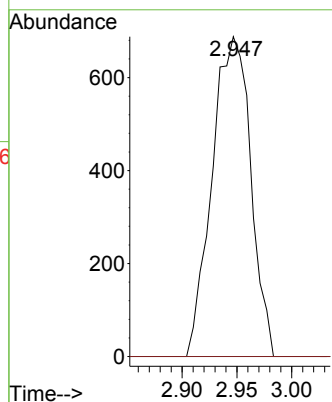
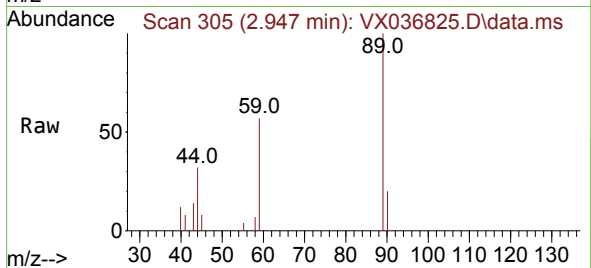




#11  
Tert butyl alcohol  
Concen: 3.098 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.043 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

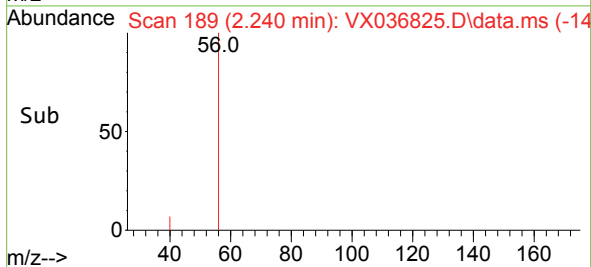
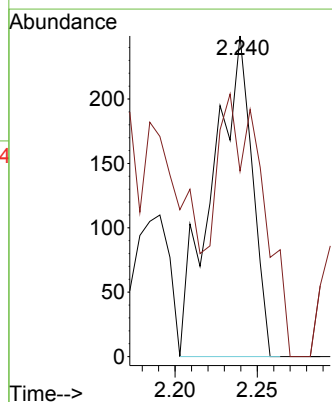
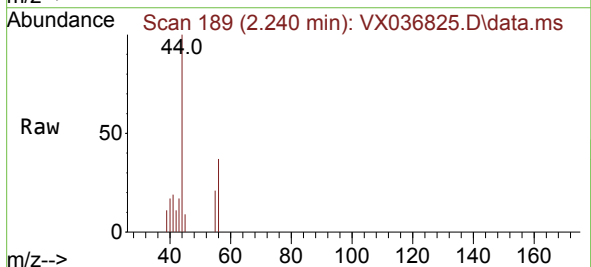
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

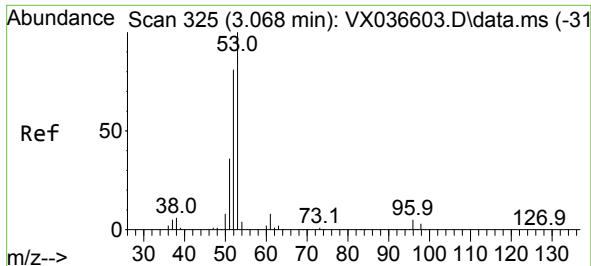
Tgt Ion: 59 Resp: 1688  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



#13  
Acrolein  
Concen: 1.344 ug/l  
RT: 2.240 min Scan# 189  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 56 Resp: 418  
Ion Ratio Lower Upper  
56 100  
55 97.1 57.1 85.7#

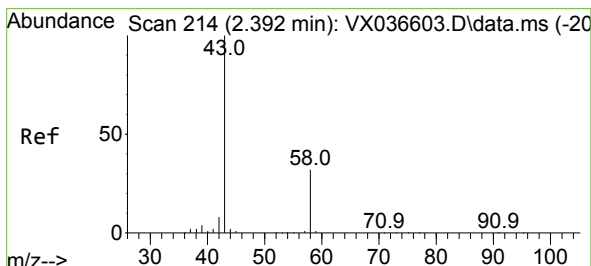
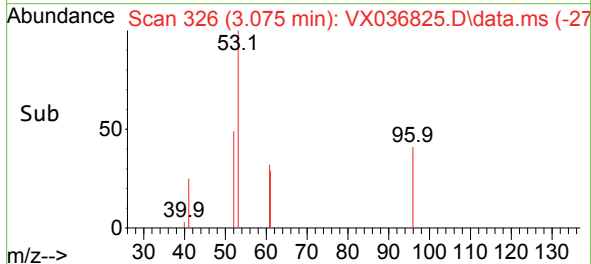
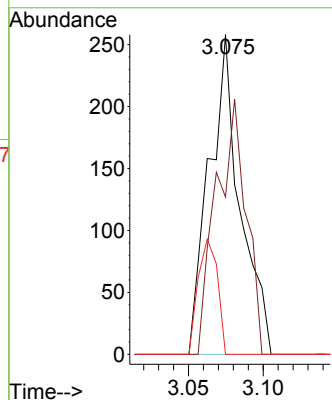
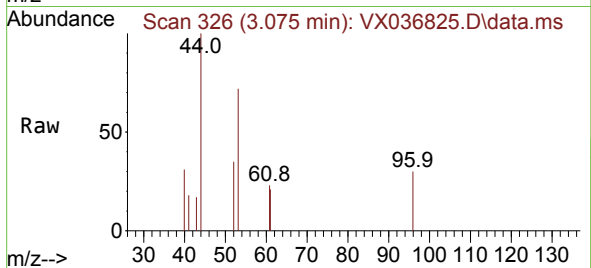




#15  
Acrylonitrile  
Concen: 0.338 ug/l  
RT: 3.075 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

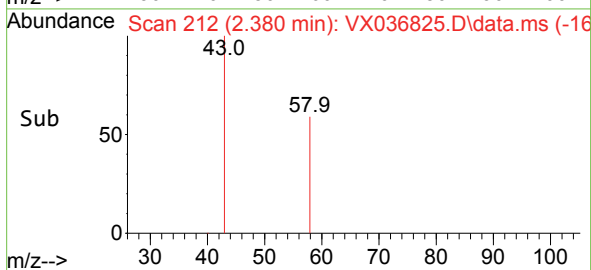
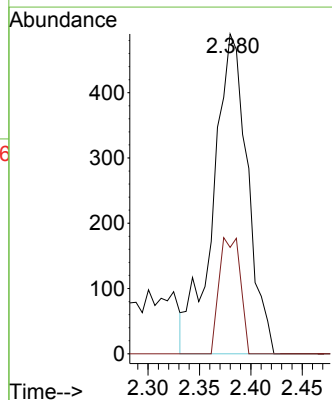
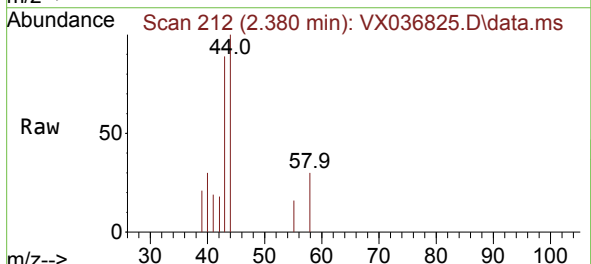
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

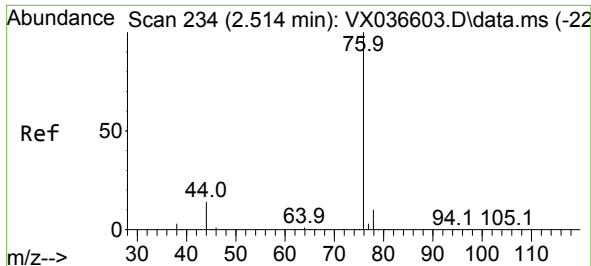
Tgt Ion: 53 Resp: 370  
Ion Ratio Lower Upper  
53 100  
52 77.0 66.0 99.0  
51 22.4 29.8 44.6#



#16  
Acetone  
Concen: 1.187 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 43 Resp: 1134  
Ion Ratio Lower Upper  
43 100  
58 33.3 21.9 32.9#

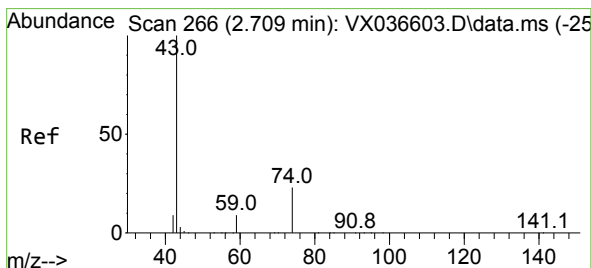
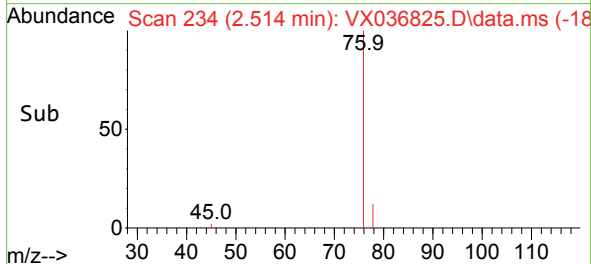
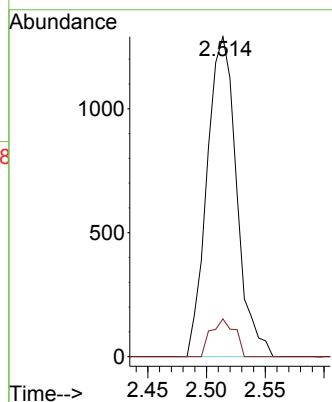
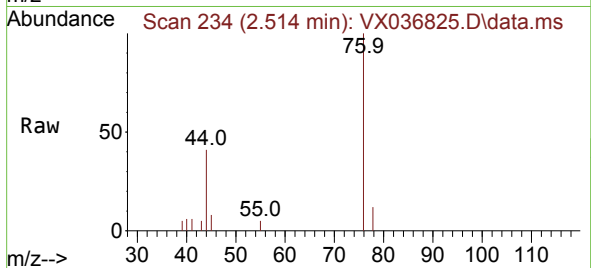




#17  
Carbon Disulfide  
Concen: 0.471 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

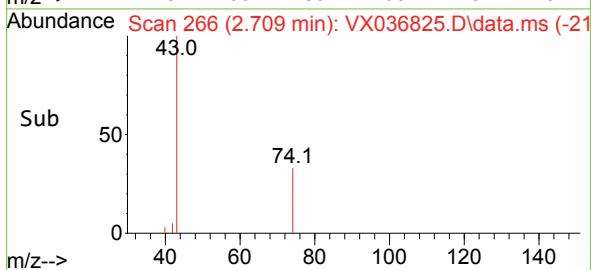
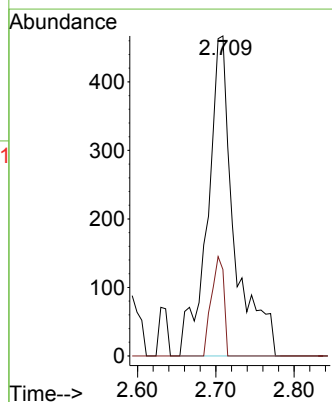
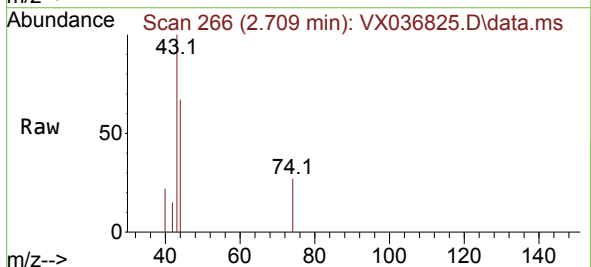
Instrument :  
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ClientSampleId :  
VX0807MBL01

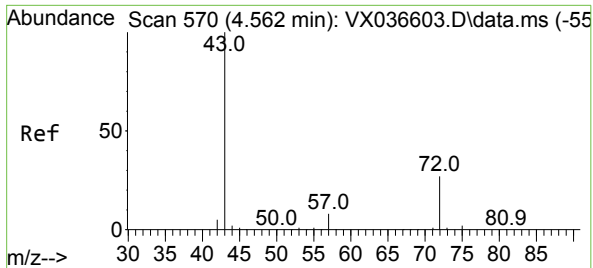
Tgt Ion: 76 Resp: 2263  
Ion Ratio Lower Upper  
76 100  
78 11.8 7.0 10.6#



#18  
Methyl Acetate  
Concen: 0.274 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 43 Resp: 1102  
Ion Ratio Lower Upper  
43 100  
74 14.4 17.8 26.8#

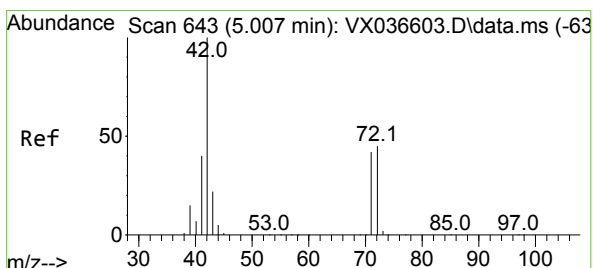
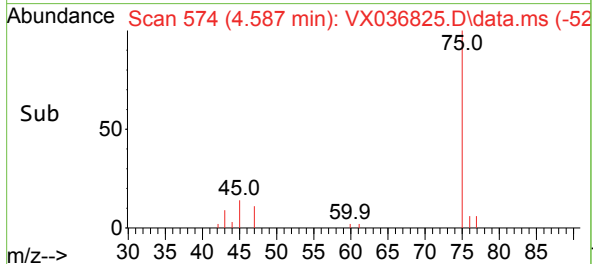
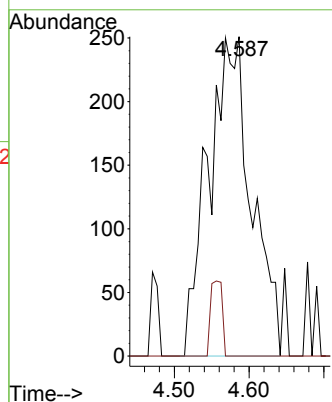
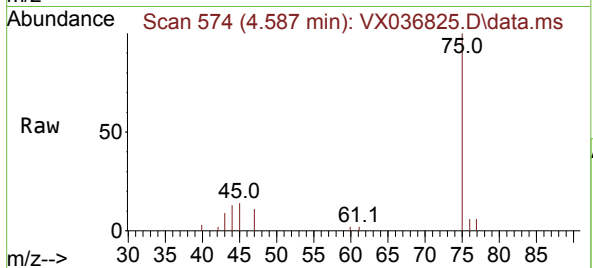




#25  
2-Butanone  
Concen: 0.653 ug/l  
RT: 4.587 min Scan# 51  
Delta R.T. 0.025 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

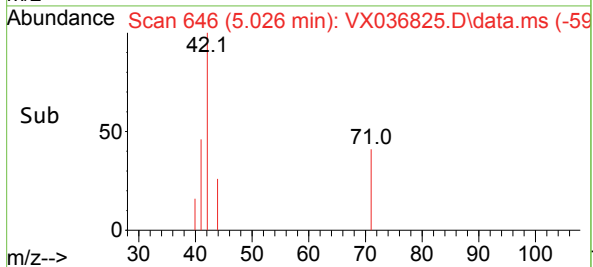
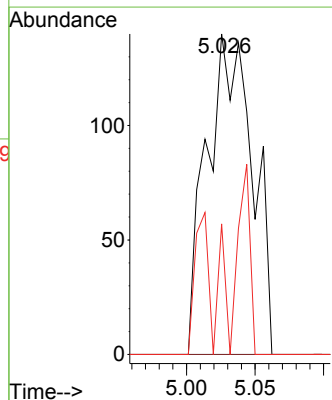
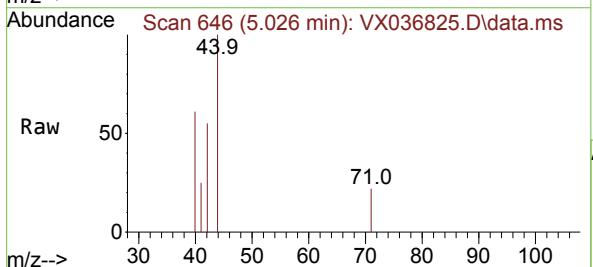
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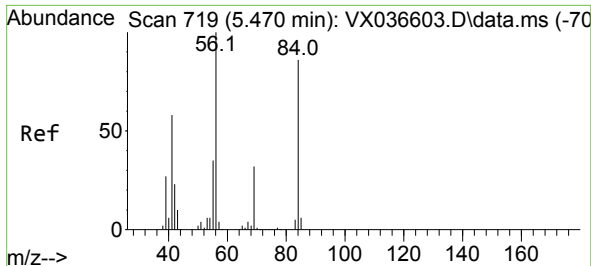
Tgt Ion: 43 Resp: 1012  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.325 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.018 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 42 Resp: 325  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 12.9 32.2 48.2#

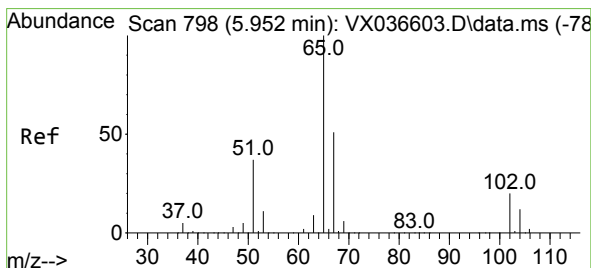
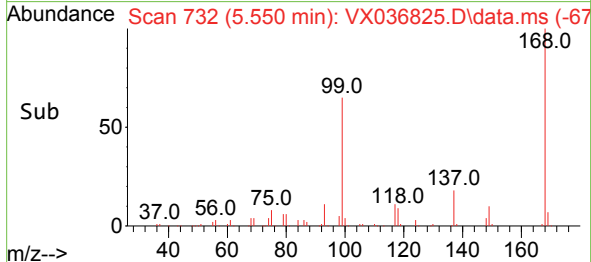
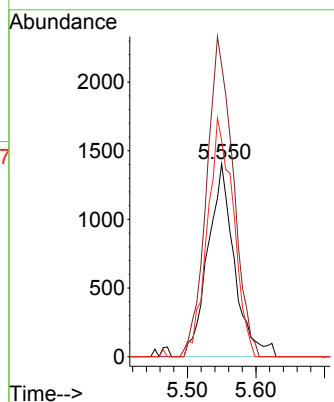
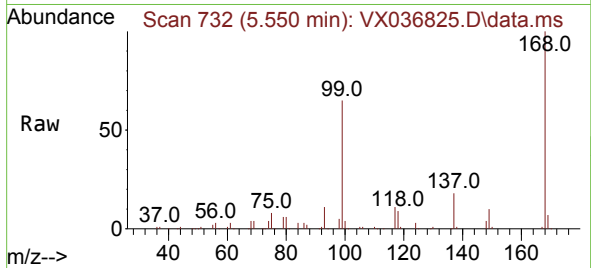




#31  
Cyclohexane  
Concen: 1.182 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

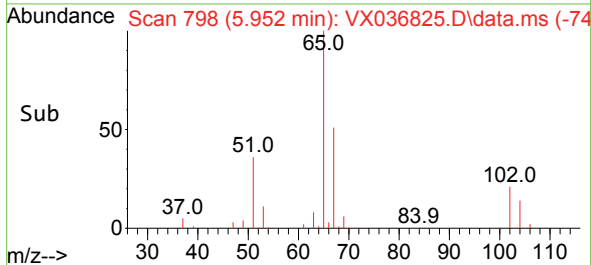
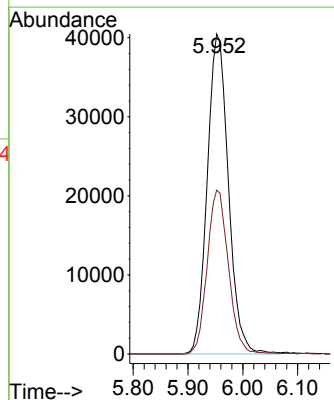
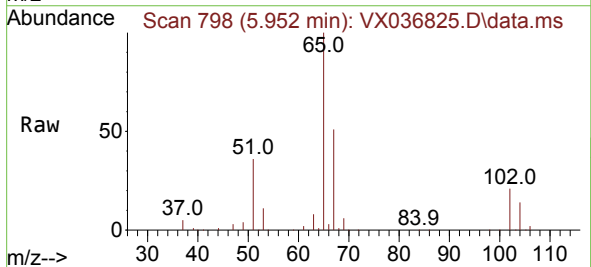
Instrument :  
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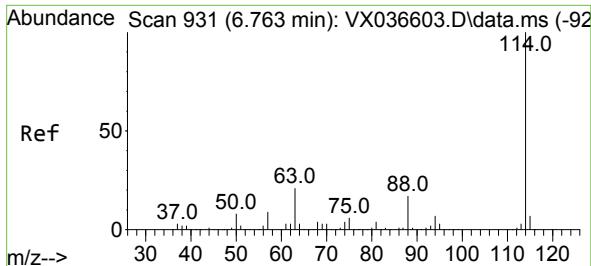
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Ion Ratio Lower Upper  
56 100  
69 151.3 23.4 35.2#  
84 112.2 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 47.064 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 65 Resp: 108322  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 100.2

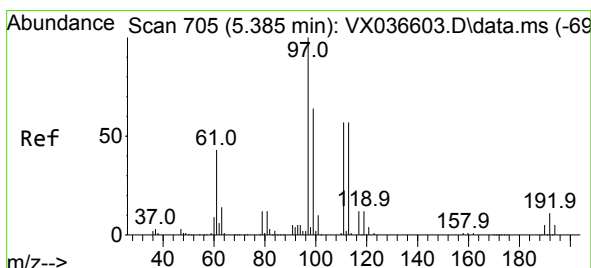
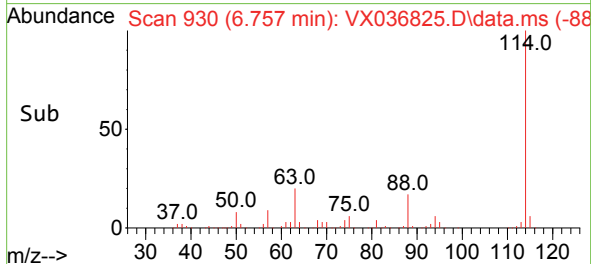
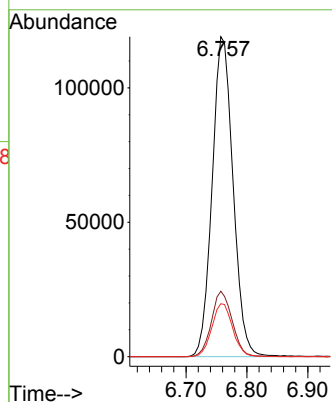
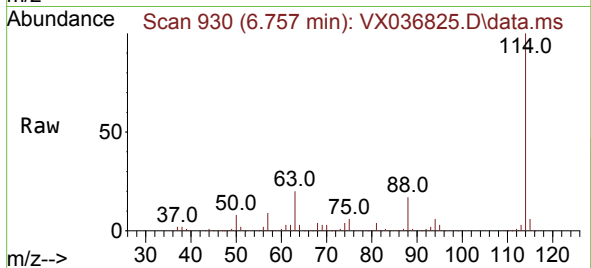




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

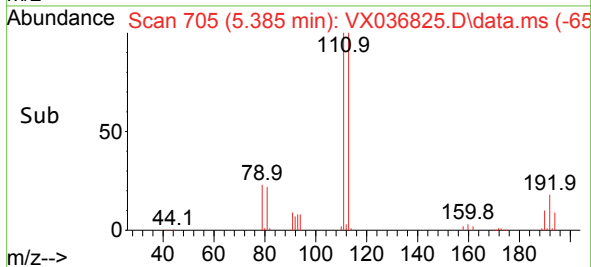
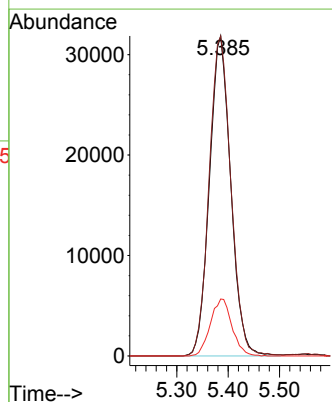
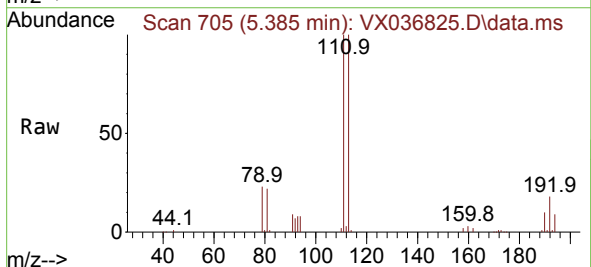
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

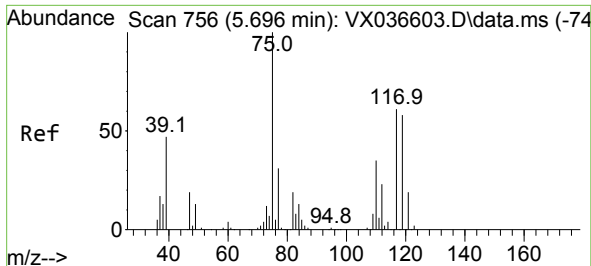
Tgt Ion:114 Resp: 283779  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 45.0  
88 16.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.959 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion:113 Resp: 91595  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.9 124.3  
192 18.1 13.3 19.9

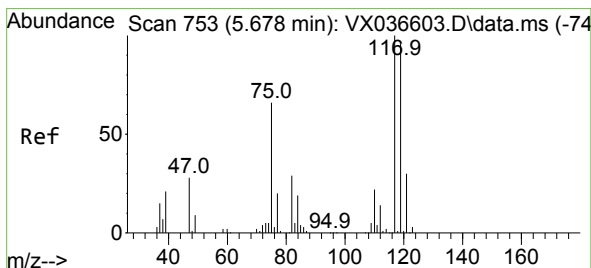
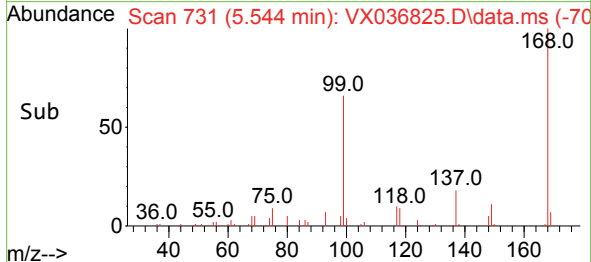
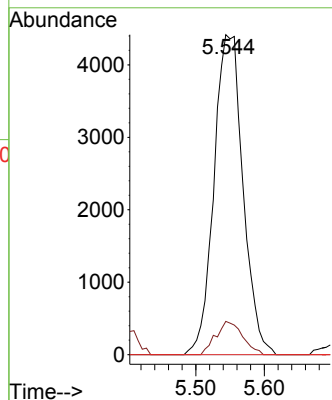
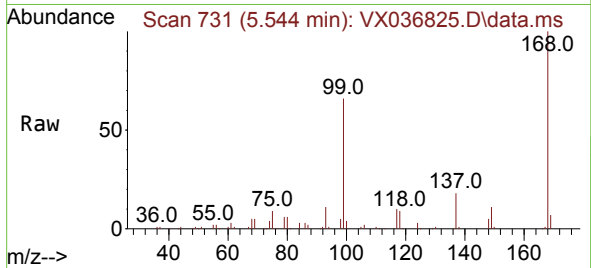




#36  
1,1-Dichloropropene  
Concen: 4.467 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.152 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

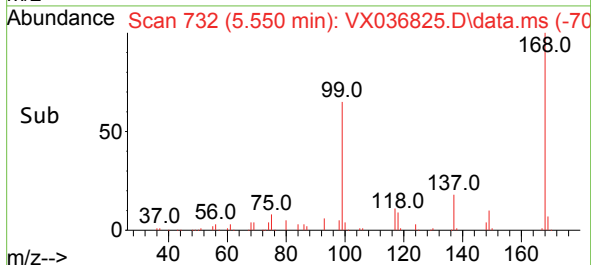
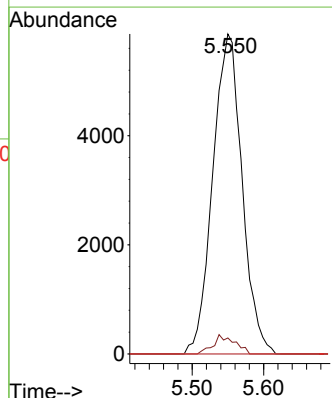
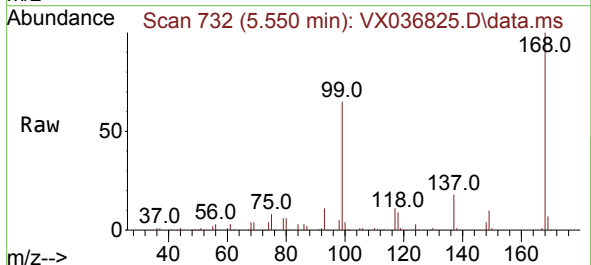
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

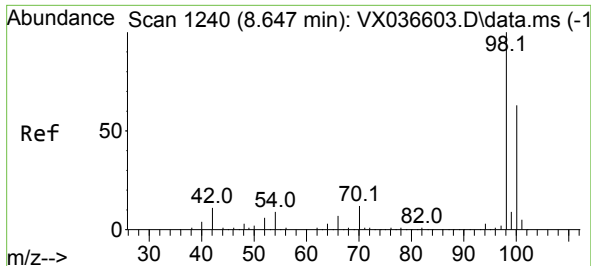
Tgt Ion: 75 Resp: 12987  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.393 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 117 Resp: 16668  
Ion Ratio Lower Upper  
117 100  
119 5.0 78.2 117.2#  
121 0.0 24.4 36.6#

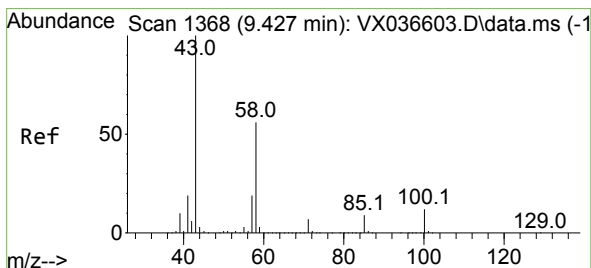
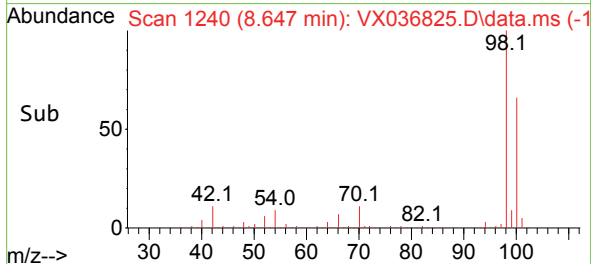
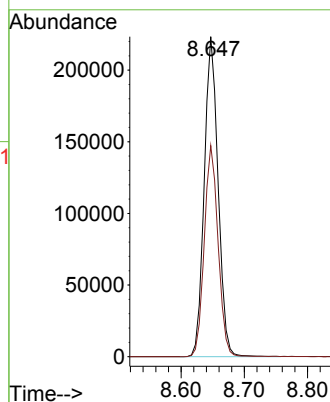
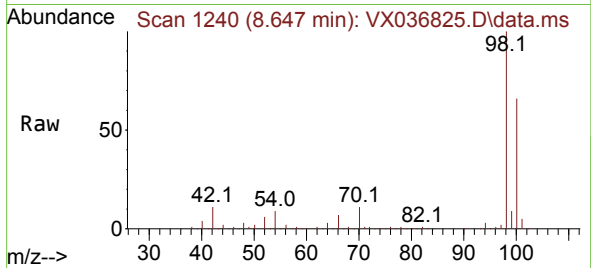




#50  
Toluene-d8  
Concen: 49.313 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

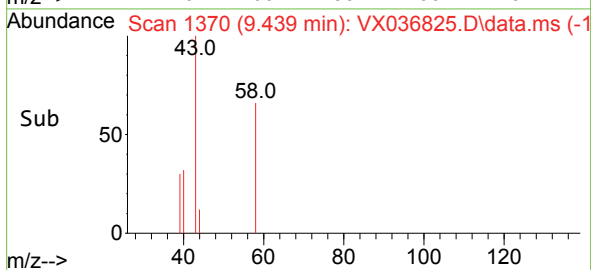
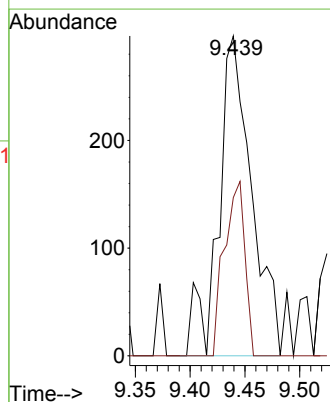
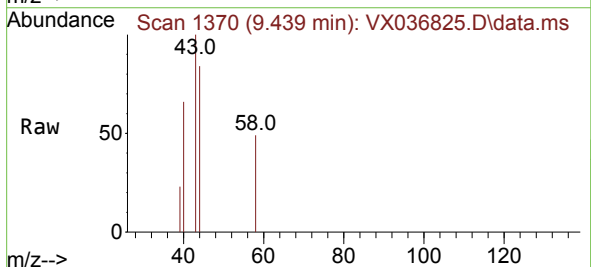
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

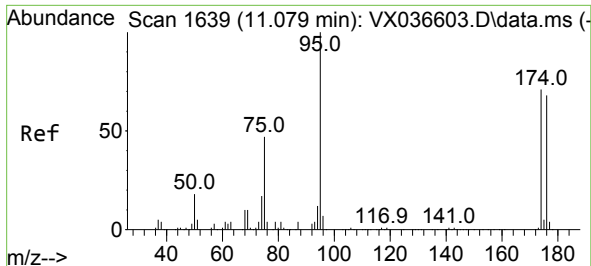
Tgt Ion: 98 Resp: 341098  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.1 79.7



#59  
2-Hexanone  
Concen: 0.269 ug/l  
RT: 9.439 min Scan# 1370  
Delta R.T. 0.012 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 43 Resp: 626  
Ion Ratio Lower Upper  
43 100  
58 33.7 26.2 78.5

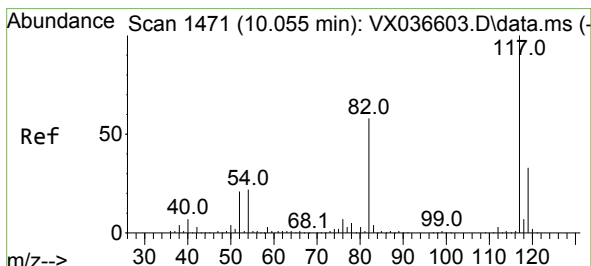
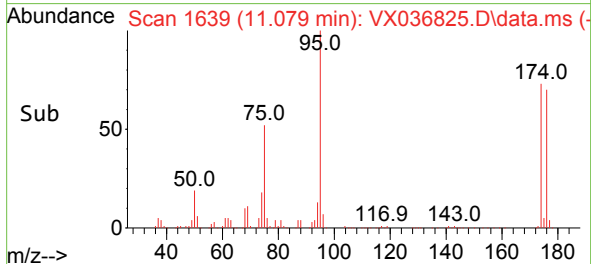
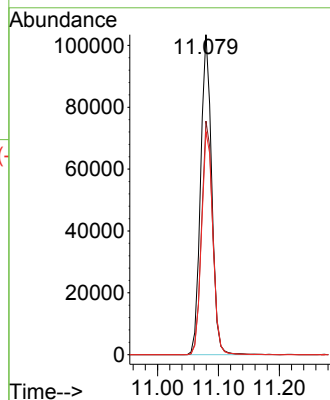
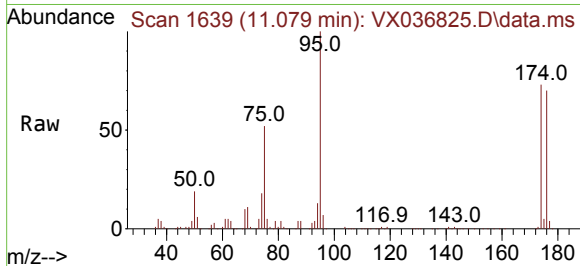




#62  
4-Bromofluorobenzene  
Concen: 49.968 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

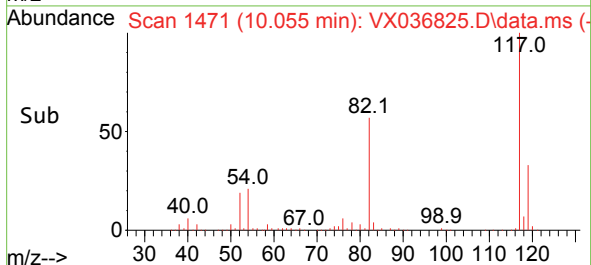
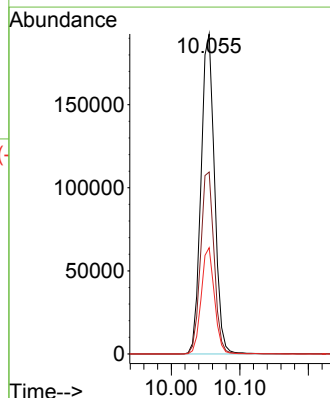
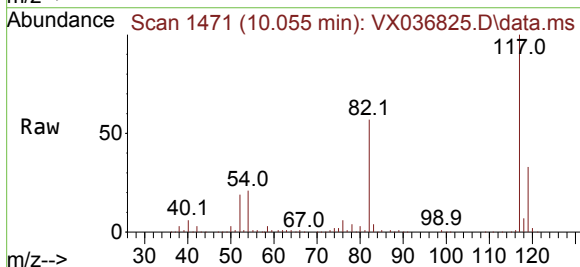
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

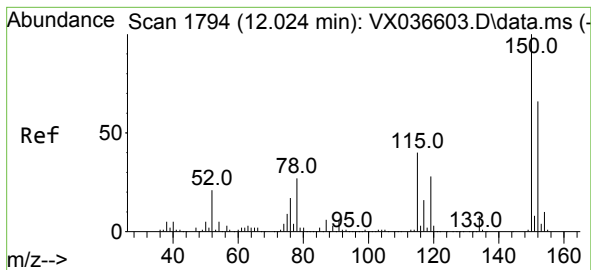
Tgt Ion: 95 Resp: 130400  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 135.6  
176 71.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion: 117 Resp: 264891  
Ion Ratio Lower Upper  
117 100  
82 56.9 46.2 69.4  
119 33.2 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036825.D

Acq: 07 Aug 2023 09:49

Instrument :

MSVOA\_X

ClientSampleId :

VX0807MBL01

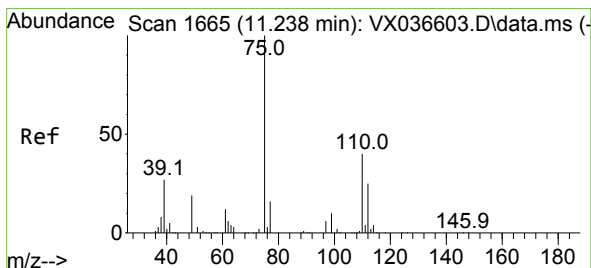
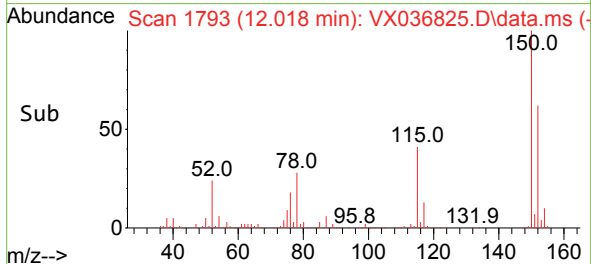
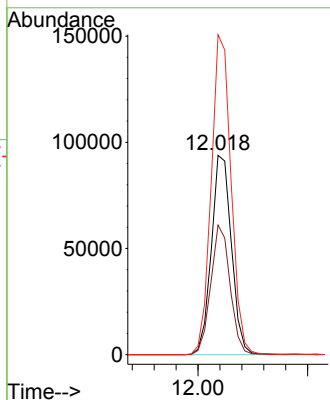
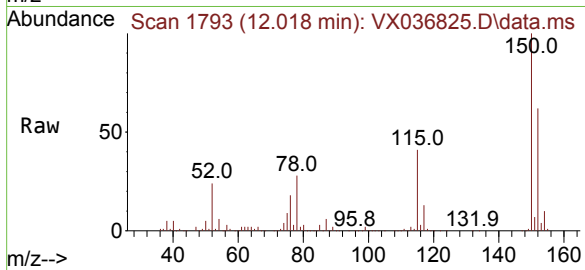
Tgt Ion:152 Resp: 119602

Ion Ratio Lower Upper

152 100

115 62.5 43.3 129.9

150 158.7 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 24.176 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX036825.D

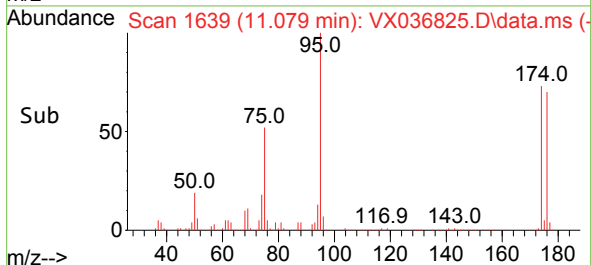
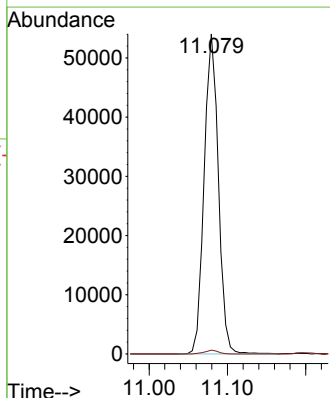
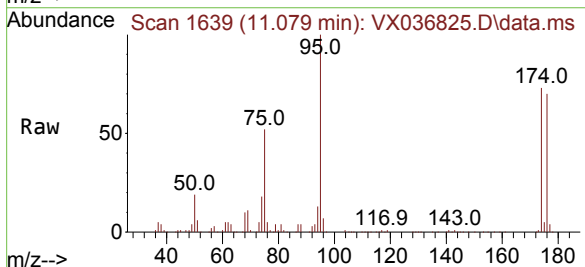
Acq: 07 Aug 2023 09:49

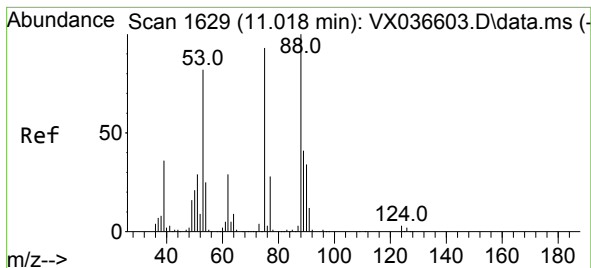
Tgt Ion: 75 Resp: 68010

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

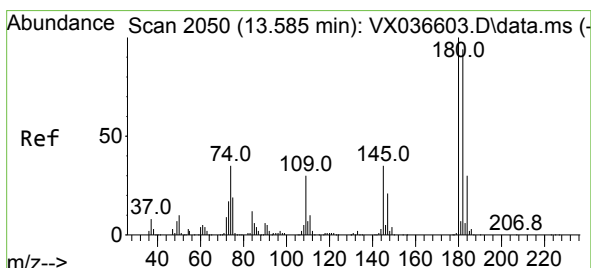
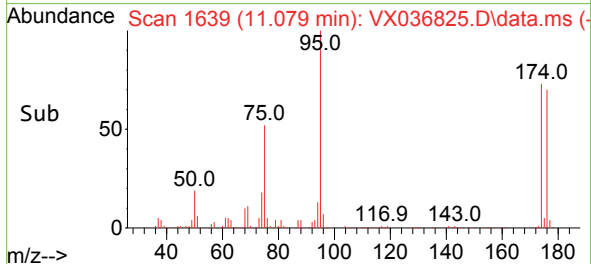
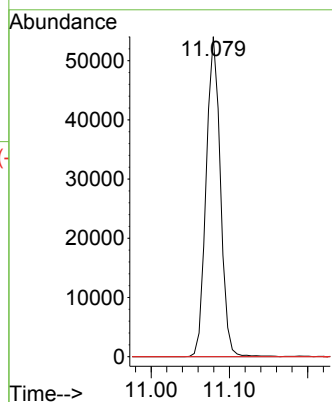
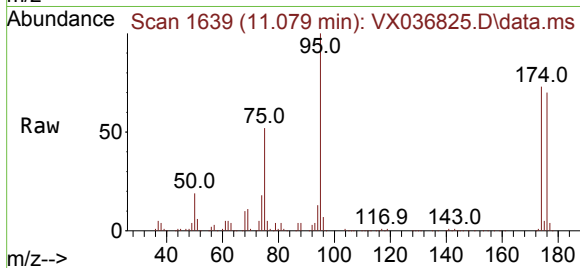




#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.795 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

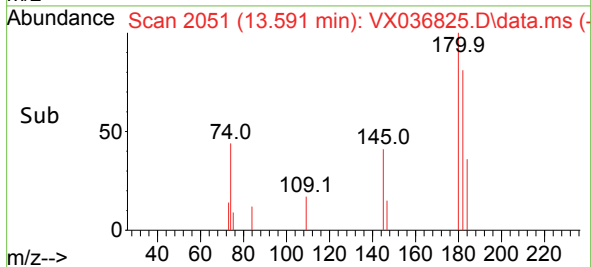
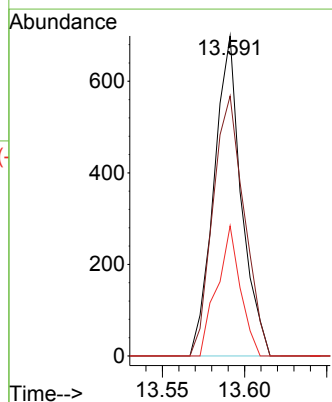
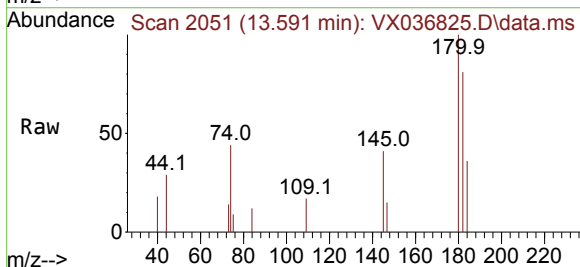
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

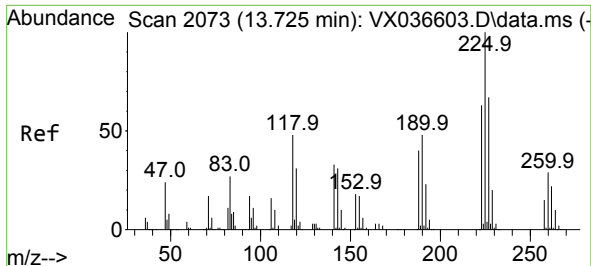
Tgt Ion: 75 Resp: 68010  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.326 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

Tgt Ion:180 Resp: 810  
Ion Ratio Lower Upper  
180 100  
182 92.6 48.3 144.8  
145 34.6 18.0 54.0

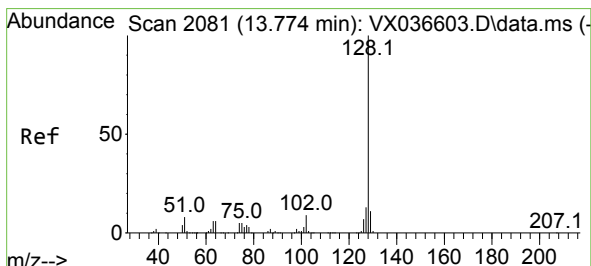
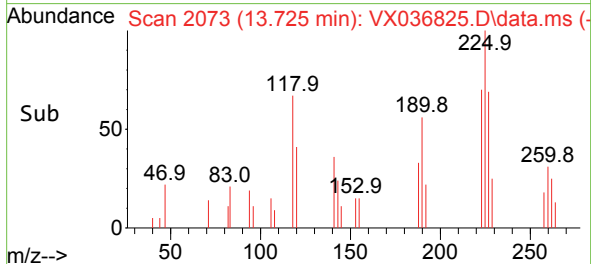
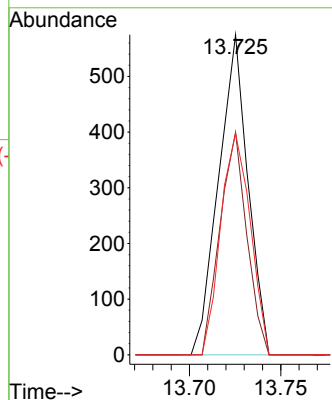
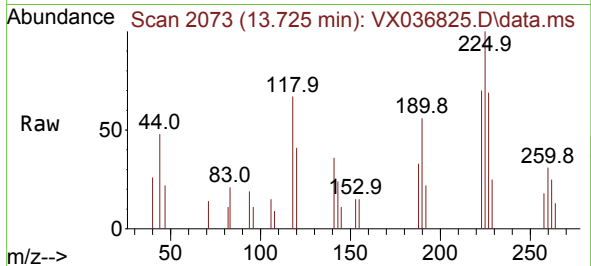




#94  
Hexachlorobutadiene  
Concen: 0.627 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

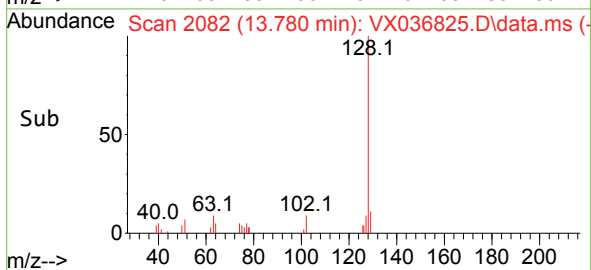
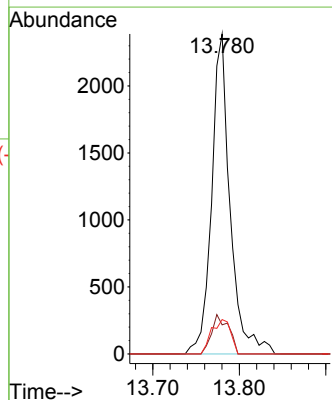
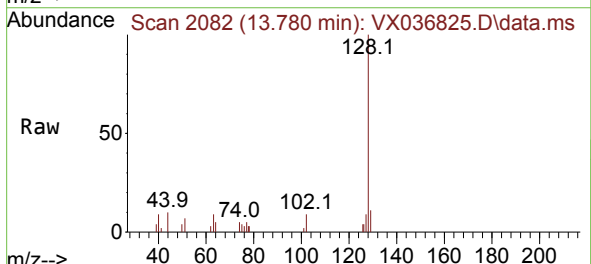
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0807MBL01

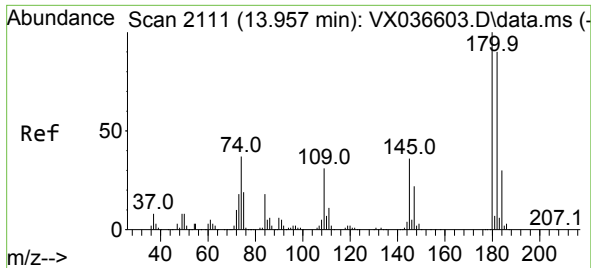
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 644   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 63.5  | 31.1  | 93.2  |
| 227      | 69.4  | 32.5  | 97.5  |



#95  
Naphthalene  
Concen: 0.408 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX036825.D  
Acq: 07 Aug 2023 09:49

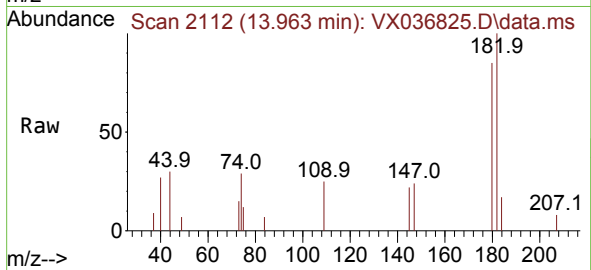
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3531  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.3  | 10.3  | 15.5  |
| 129      | 11.1  | 8.8   | 13.2  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.371 ug/l  
 RT: 13.963 min Scan# 2112  
 Delta R.T. 0.006 min  
 Lab File: VX036825.D  
 Acq: 07 Aug 2023 09:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0807MBL01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 907   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 105.6 | 46.9  | 140.6 |
| 145      | 27.7  | 17.8  | 53.5  |

