

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051623\
 Data File : VN077699.D
 Acq On : 16 May 2023 17:50
 Operator : JC\MD
 Sample : PB152801TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152801TB

Quant Time: May 17 04:07:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

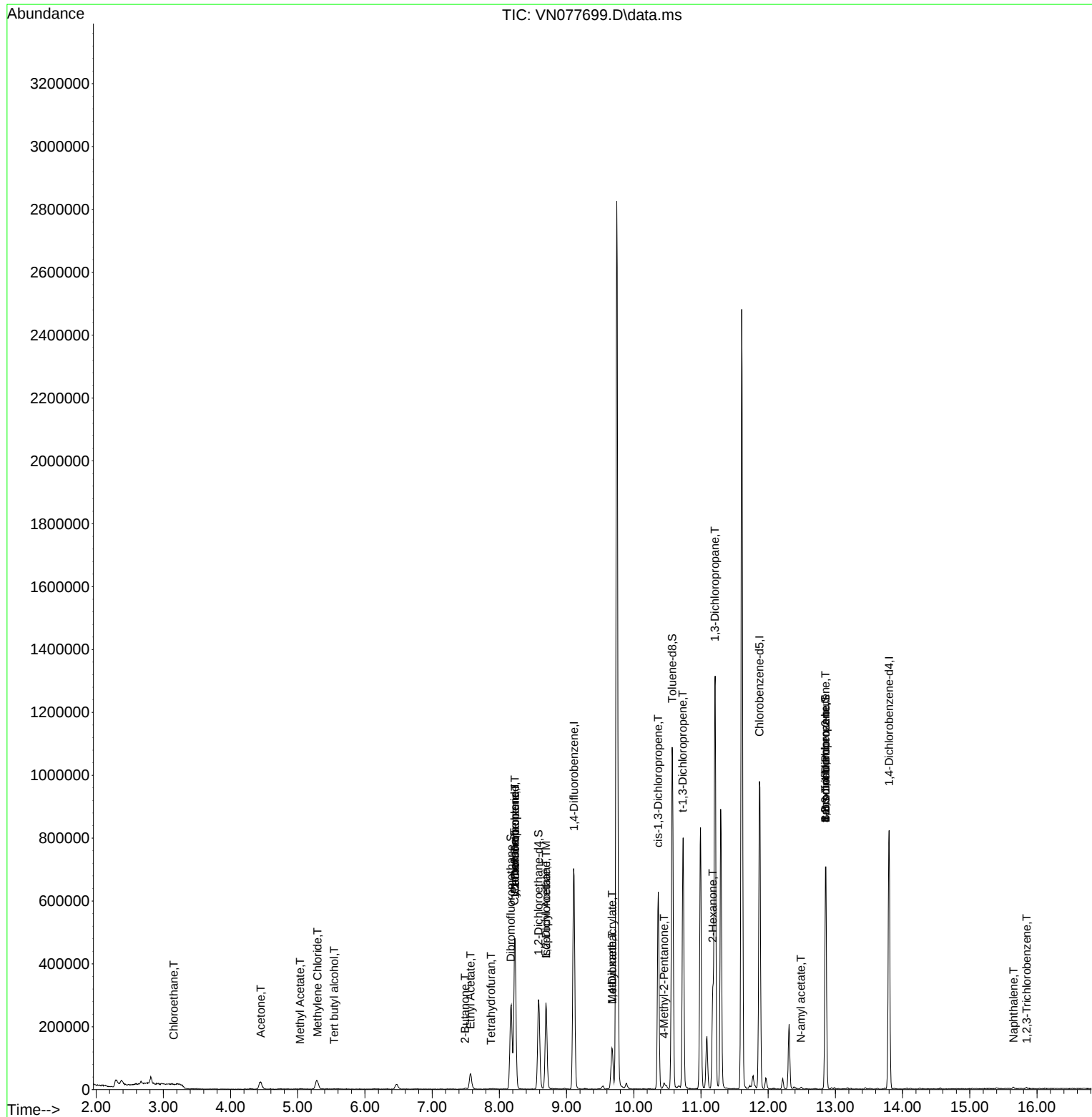
Internal Standards						
1) Pentafluorobenzene	8.229	168	337421	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	618465	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	574926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	217118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	240980	47.731	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.460%		
35) Dibromofluoromethane	8.171	113	197405	48.948	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.900%		
50) Toluene-d8	10.570	98	782592	50.415	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.820%		
62) 4-Bromofluorobenzene	12.853	95	260443	47.505	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.000%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1675	Below Cal		94
6) Chloroethane	3.153	64	1034	0.296 ug/l		98
11) Tert butyl alcohol	5.541	59	436	0.626 ug/l #		42
13) Acrolein	4.194	56	313	Below Cal #		16
16) Acetone	4.447	43	47541	29.930 ug/l		95
18) Methyl Acetate	5.036	43	1638	0.246 ug/l #		67
20) Methylene Chloride	5.294	84	22119	3.513 ug/l		91
25) 2-Butanone	7.488	43	4969	2.000 ug/l #		57
29) Tetrahydrofuran	7.877	42	959	0.589 ug/l #		47
31) Cyclohexane	8.224	56	8608	1.254 ug/l #		52
36) 1,1-Dichloropropene	8.235	75	31341	5.313 ug/l #		49
37) Ethyl Acetate	7.571	43	71649	13.628 ug/l		97
38) Carbon Tetrachloride	8.229	117	38520	6.467 ug/l #		14
42) 1,2-Dichloroethane	8.694	62	1927	0.305 ug/l #		73
43) Isopropyl Acetate	8.694	43	293454	34.171 ug/l #		86
48) Methyl methacrylate	9.676	41	8514	2.091 ug/l #		4
49) 1,4-Dioxane	9.676	88	131	1.703 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	10796	2.115 ug/l		96
53) t-1,3-Dichloropropene	10.729	75	2443	0.379 ug/l		97
54) cis-1,3-Dichloropropene	10.365	75	112525	15.852 ug/l #		67
57) 1,3-Dichloropropane	11.206	76	15036	2.038 ug/l #		43
59) 2-Hexanone	11.176	43	250488	66.341 ug/l #		19
71) Bromoform	12.853	173	1653	0.576 ug/l #		28
74) N-amyl acetate	12.488	43	3748	0.542 ug/l #		40
76) 1,2,3-Trichloropropane	12.853	75	136524	25.108 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	136524	80.259 ug/l #		15
95) Naphthalene	15.653	128	4488	0.302 ug/l		96
96) 1,2,3-Trichlorobenzene	15.847	180	1240	0.294 ug/l #		80

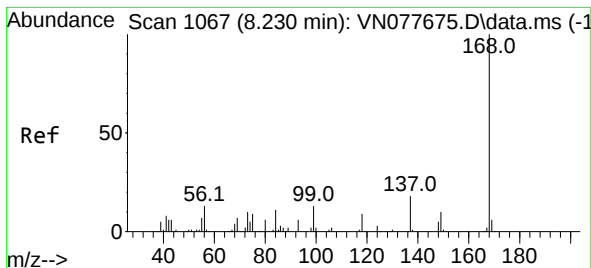
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration

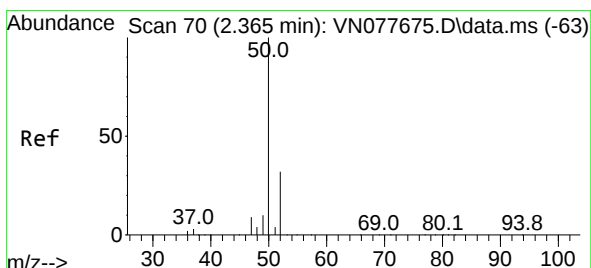
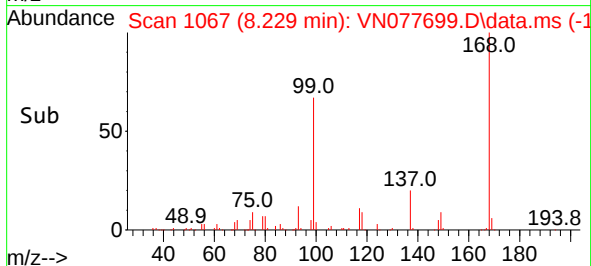
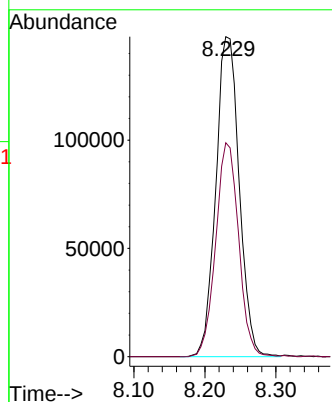
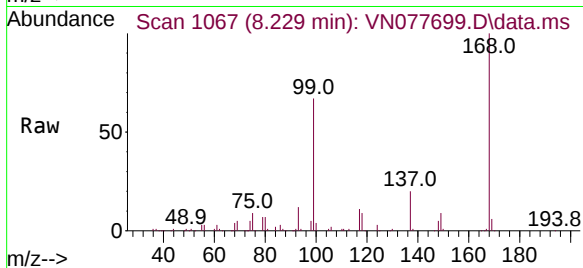




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

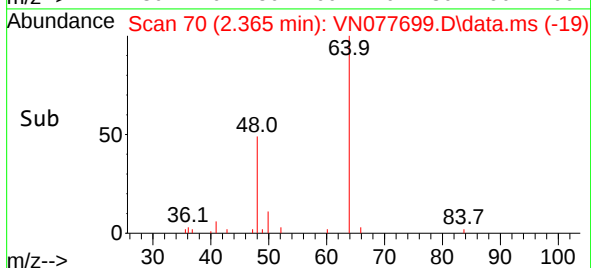
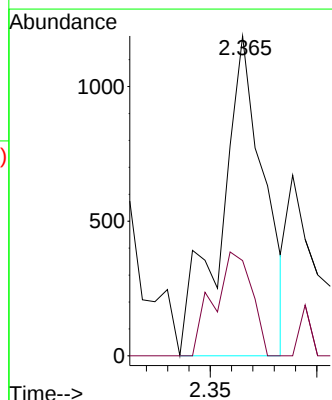
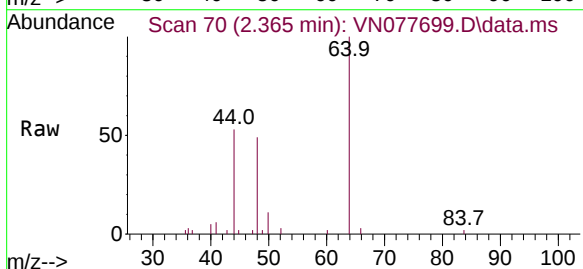
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

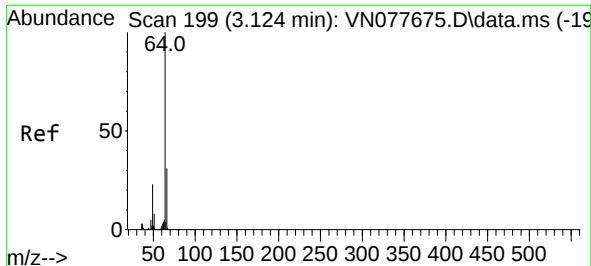
Tgt Ion:168 Resp: 337421
Ion Ratio Lower Upper
168 100
99 66.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 50 Resp: 1675
Ion Ratio Lower Upper
50 100
52 29.8 26.5 39.7

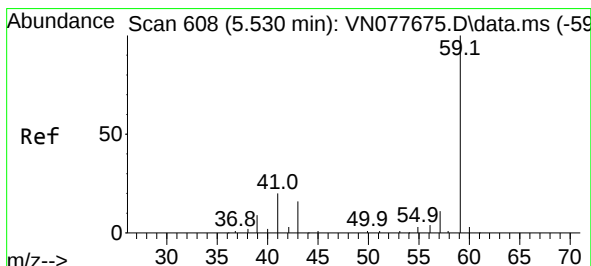
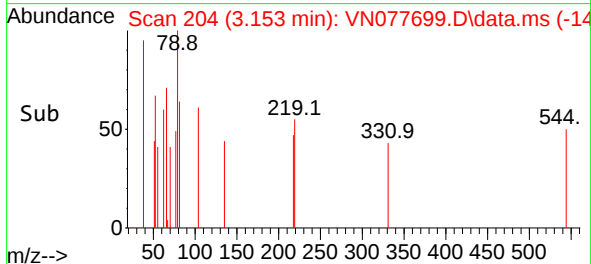
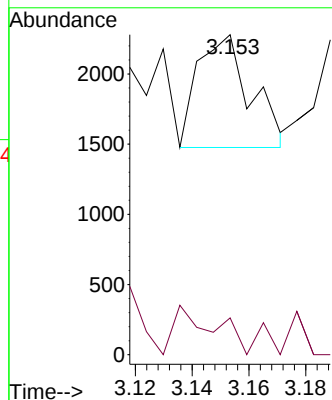
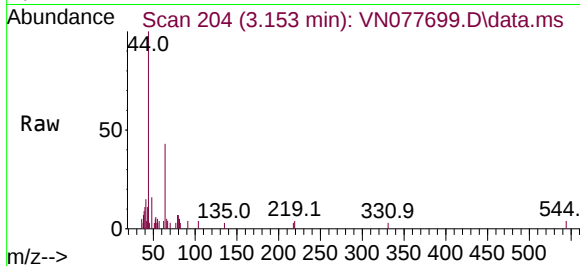




#6
Chloroethane
Concen: 0.296 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

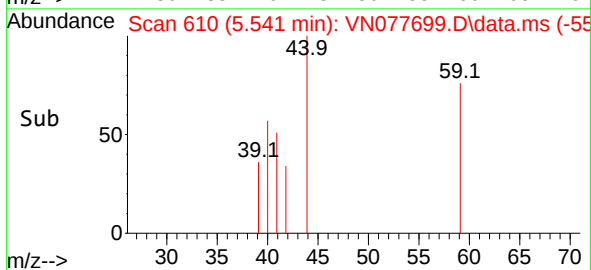
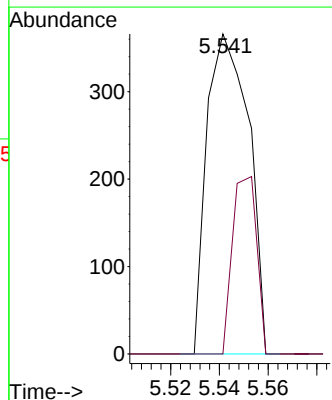
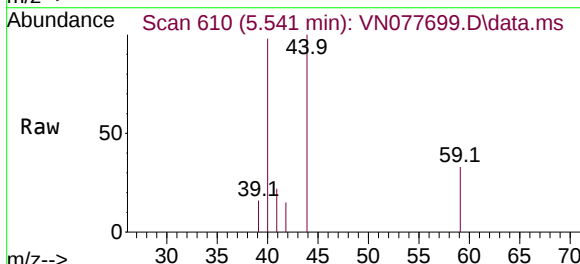
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

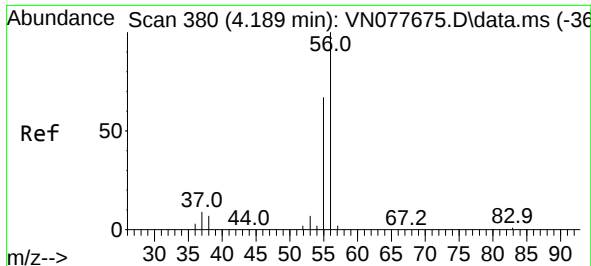
Tgt Ion: 64 Resp: 1034
Ion Ratio Lower Upper
64 100
66 32.7 25.4 38.2



#11
Tert butyl alcohol
Concen: 0.626 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.011 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 59 Resp: 436
Ion Ratio Lower Upper
59 100
57 32.1 8.2 12.4#

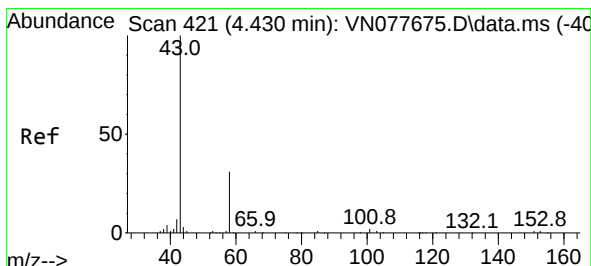
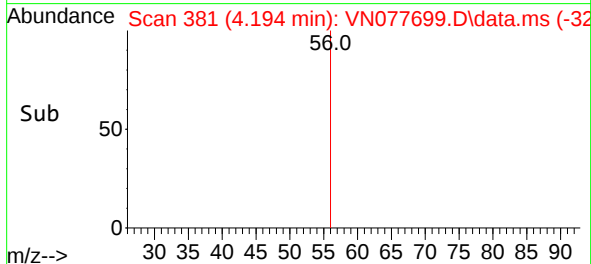
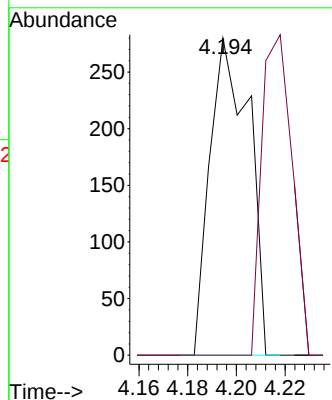
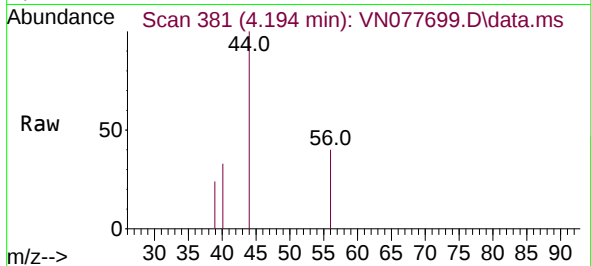




#13
Acrolein
Concen: Below Cal
RT: 4.194 min Scan# 313
Delta R.T. 0.005 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

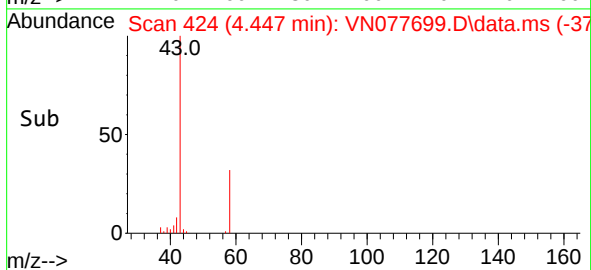
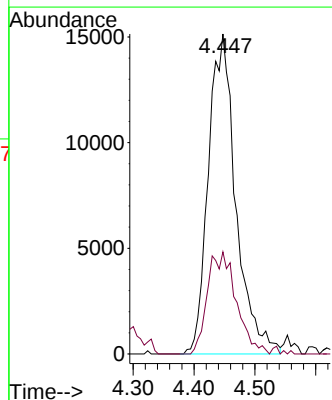
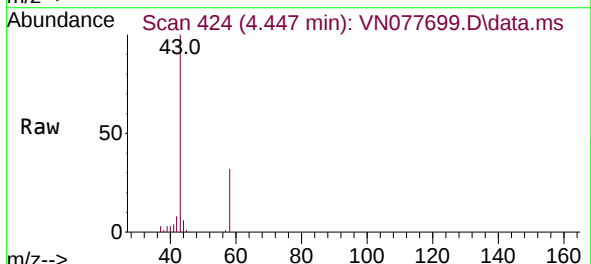
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

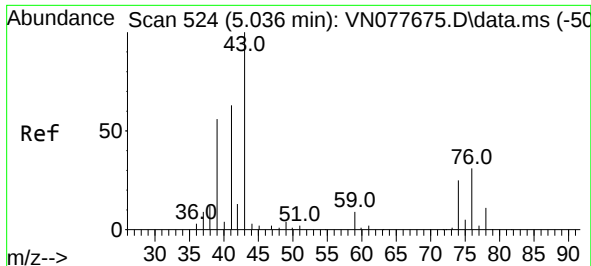
Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 29.930 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.017 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 43 Resp: 47541
Ion Ratio Lower Upper
43 100
58 31.9 28.0 42.0

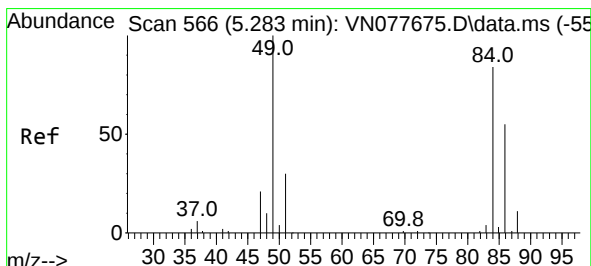
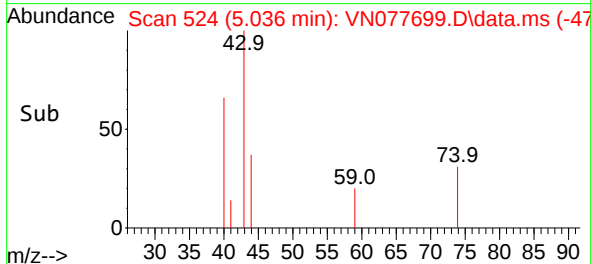
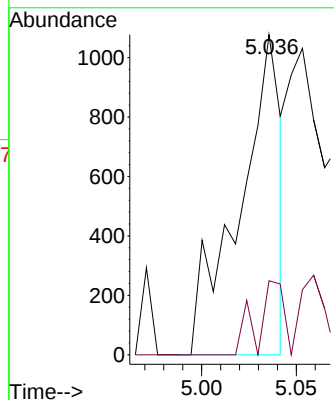
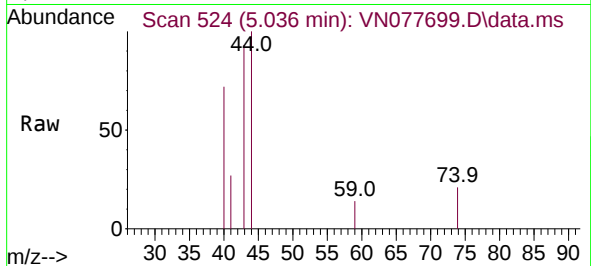




#18
Methyl Acetate
Concen: 0.246 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

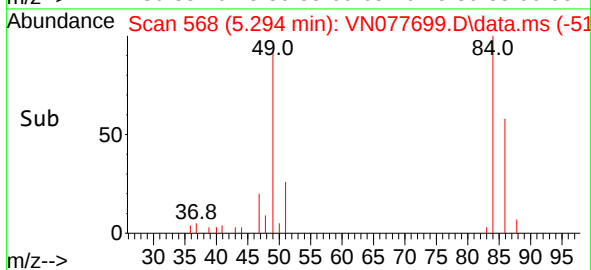
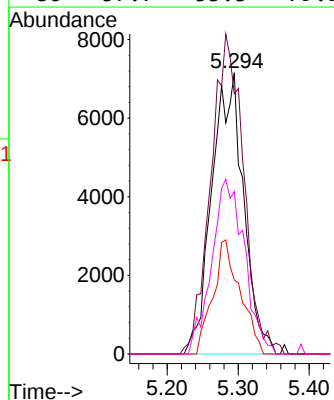
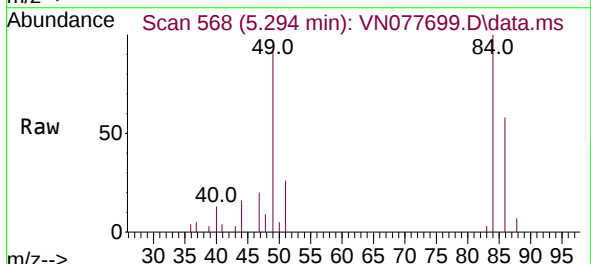
Instrument :
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ClientSampleId :
PB152801TB

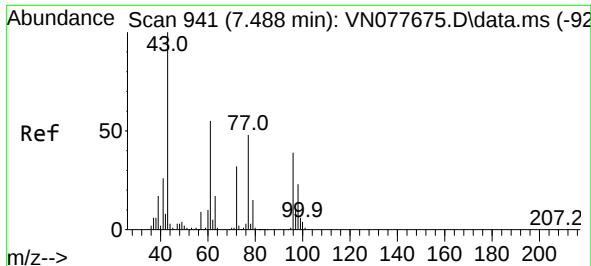
Tgt Ion: 43 Resp: 1638
Ion Ratio Lower Upper
43 100
74 14.5 26.2 39.4#



#20
Methylene Chloride
Concen: 3.513 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 84 Resp: 22119
Ion Ratio Lower Upper
84 100
49 92.5 79.7 119.5
51 26.3 25.2 37.8
86 57.7 53.3 79.9

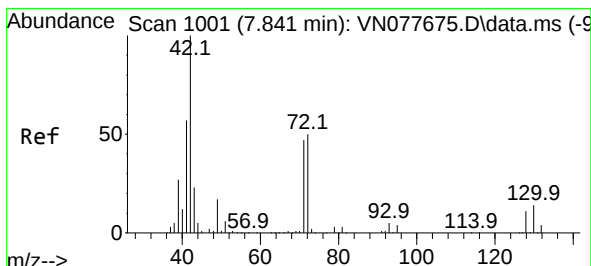
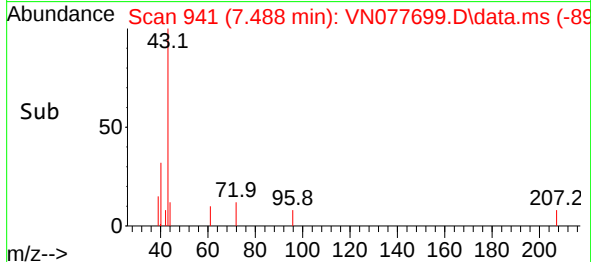
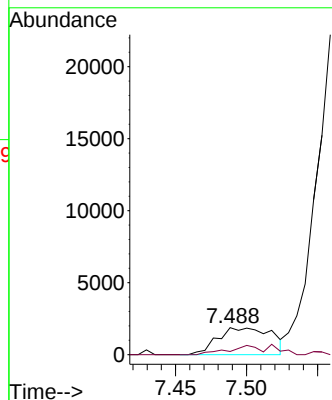
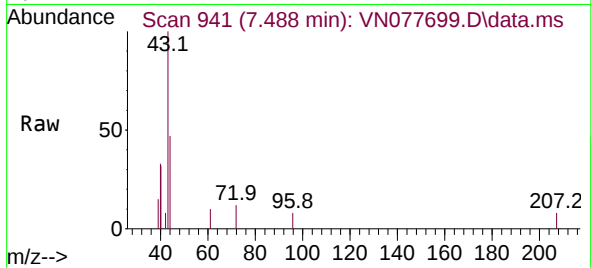




#25
2-Butanone
Concen: 2.000 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

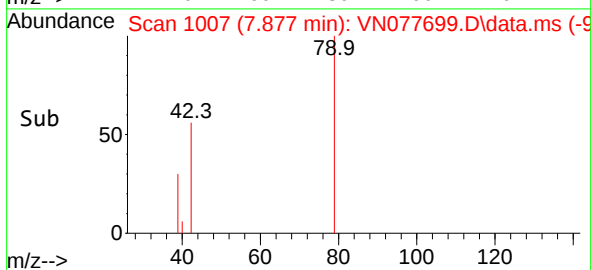
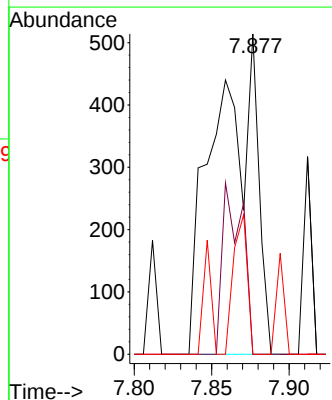
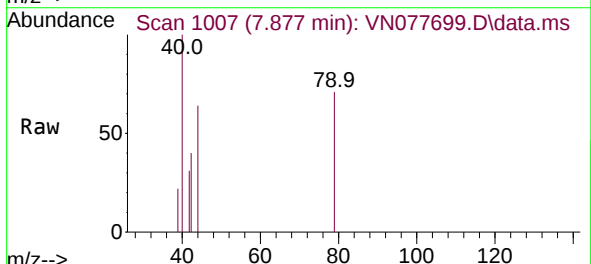
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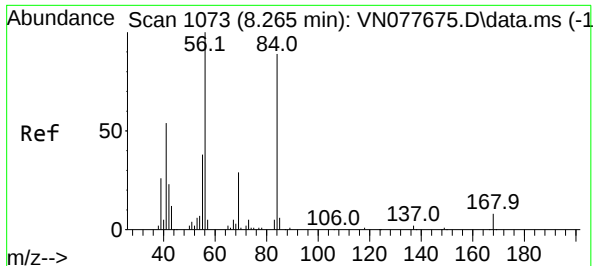
Tgt Ion: 43 Resp: 4969
Ion Ratio Lower Upper
43 100
72 11.6 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.589 ug/l
RT: 7.877 min Scan# 1007
Delta R.T. 0.036 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

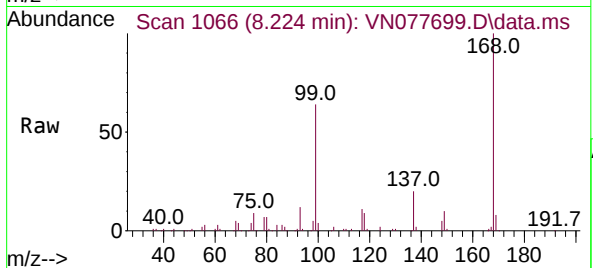
Tgt Ion: 42 Resp: 959
Ion Ratio Lower Upper
42 100
72 25.7 49.8 74.6#
71 14.5 47.4 71.2#



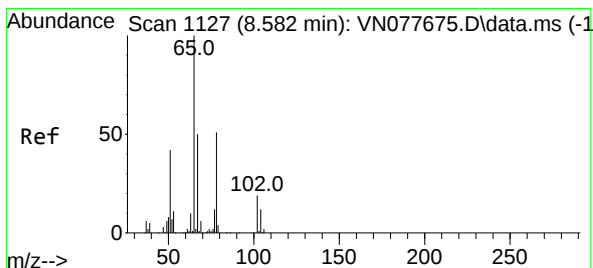
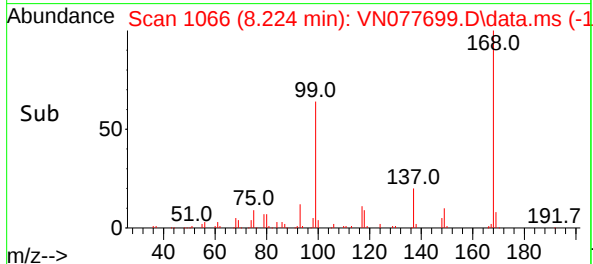
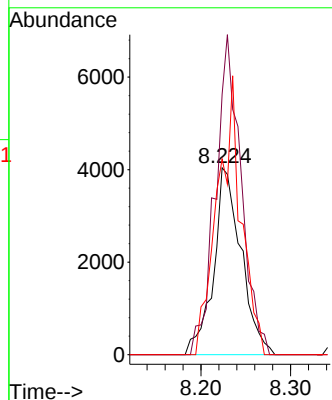


#31
Cyclohexane
Concen: 1.254 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

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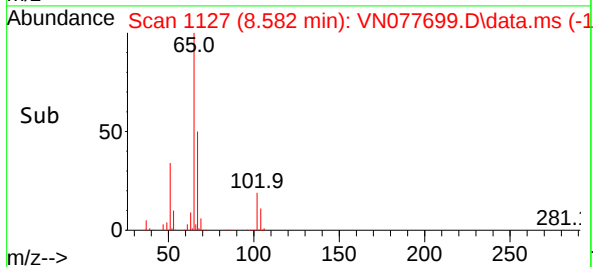
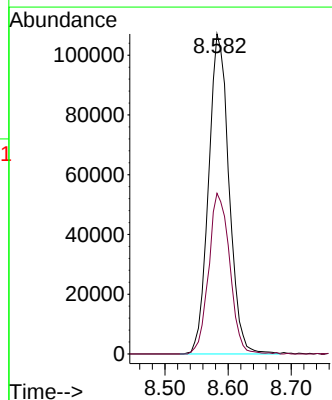
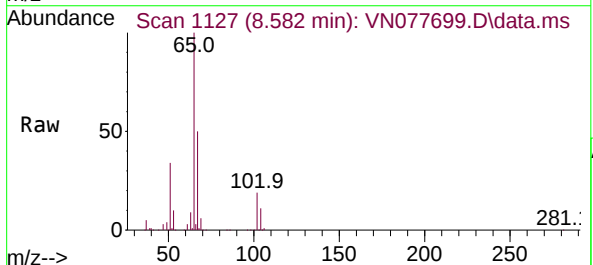


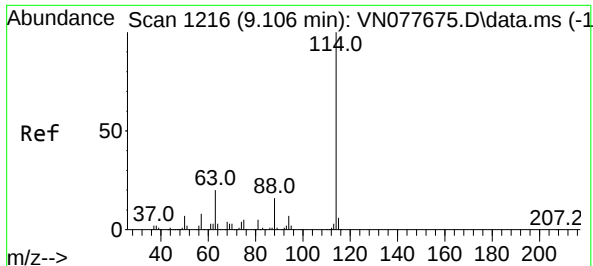
Tgt Ion: 56 Resp: 8608
Ion Ratio Lower Upper
56 100
69 139.3 26.8 40.2#
84 104.6 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 47.731 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 65 Resp: 240980
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077699.D

Acq: 16 May 2023 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB152801TB

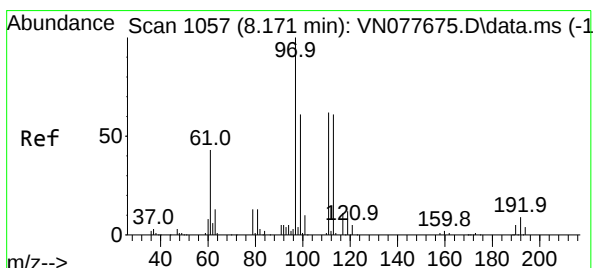
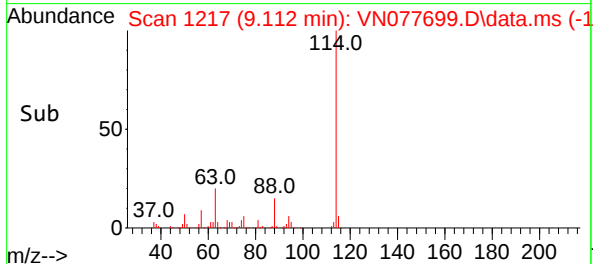
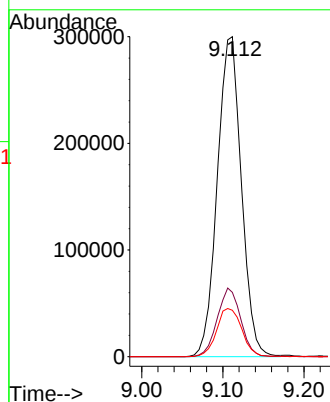
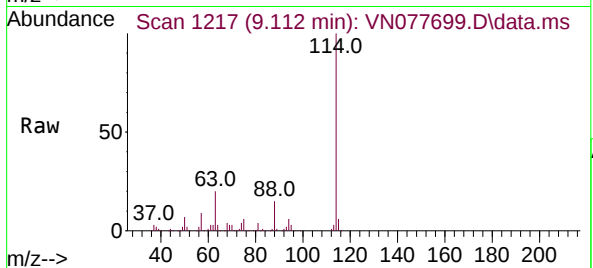
Tgt Ion:114 Resp: 618465

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 14.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.948 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077699.D

Acq: 16 May 2023 17:50

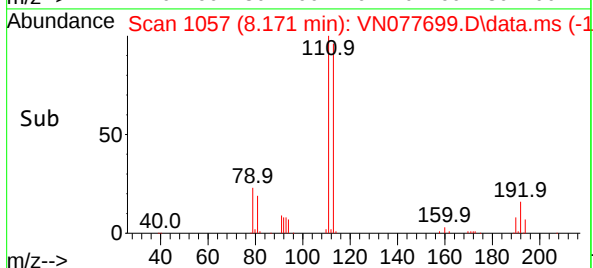
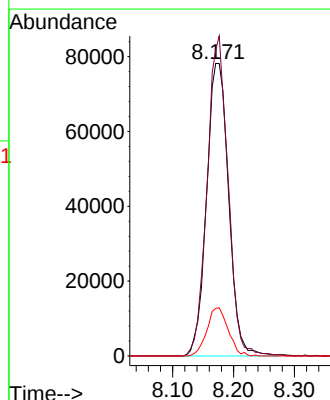
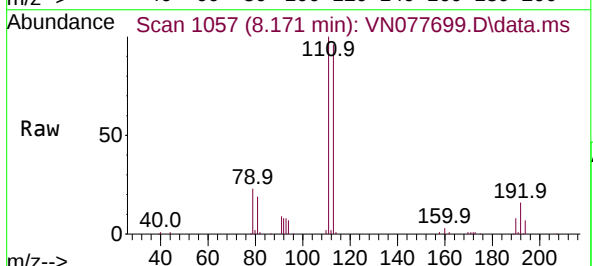
Tgt Ion:113 Resp: 197405

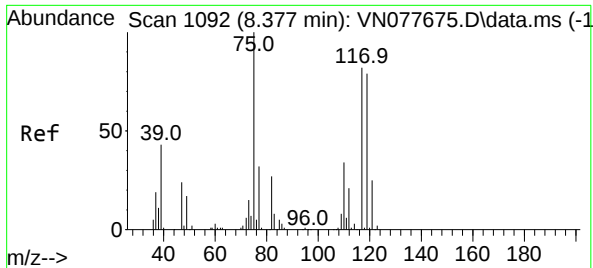
Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

192 15.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.313 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN077699.D

Acq: 16 May 2023 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB152801TB

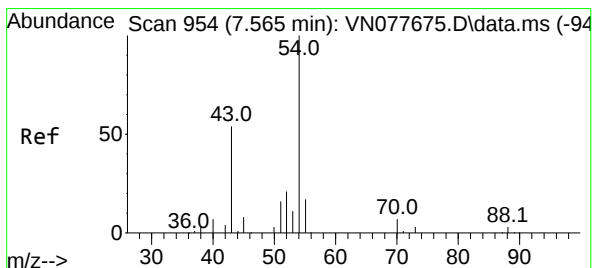
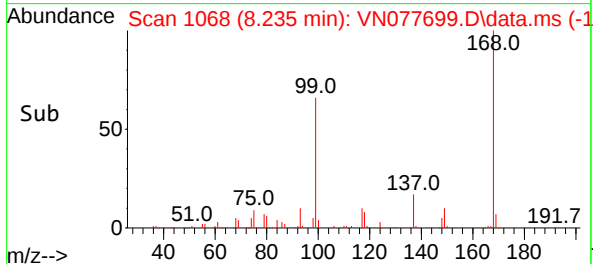
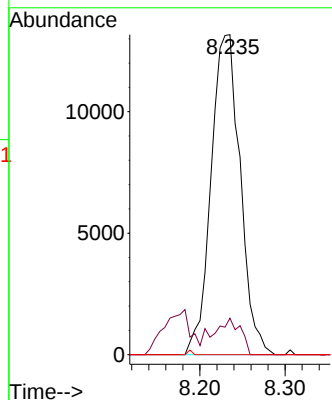
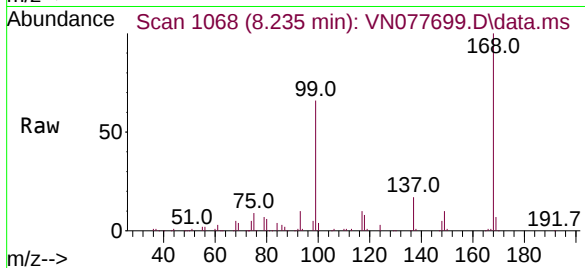
Tgt Ion: 75 Resp: 31341

Ion Ratio Lower Upper

75 100

110 10.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 13.628 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.006 min

Lab File: VN077699.D

Acq: 16 May 2023 17:50

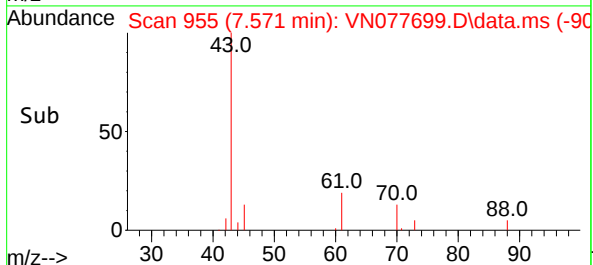
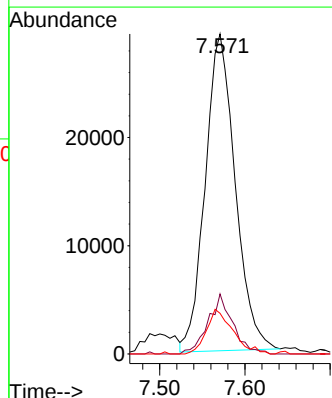
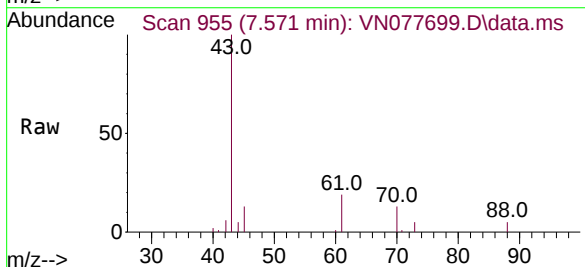
Tgt Ion: 43 Resp: 71649

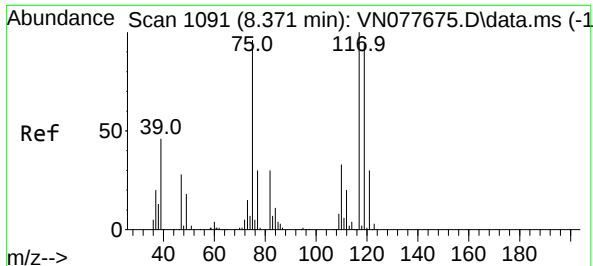
Ion Ratio Lower Upper

43 100

61 15.7 13.2 19.8

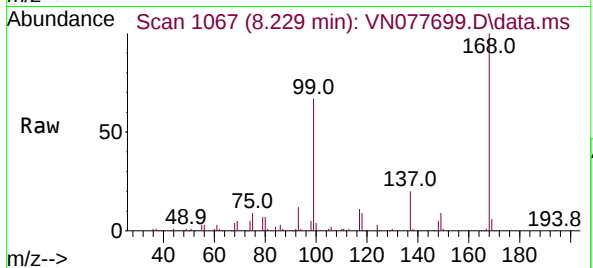
70 12.4 11.3 16.9



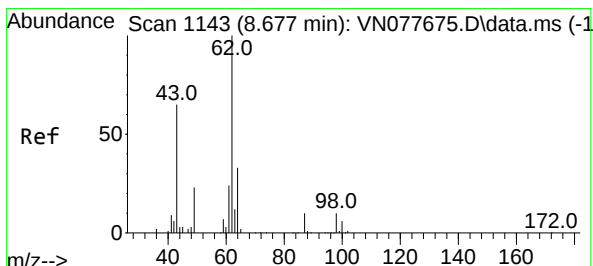
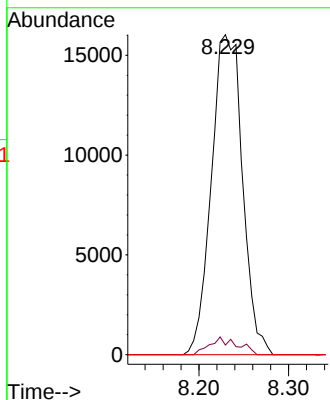
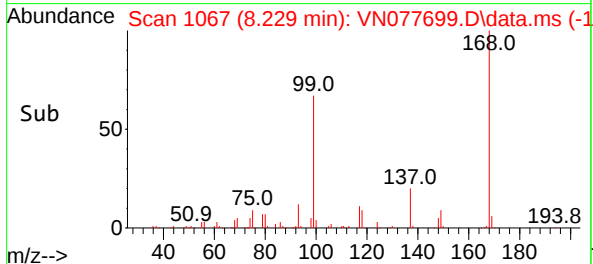


#38
Carbon Tetrachloride
Concen: 6.467 ug/l
RT: 8.229 min Scan# 1106
Delta R.T. -0.142 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

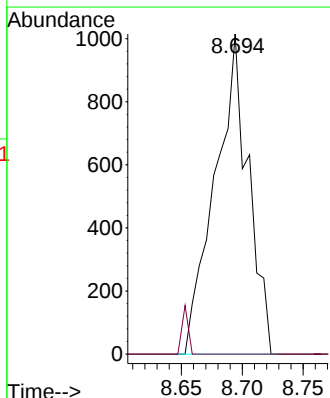
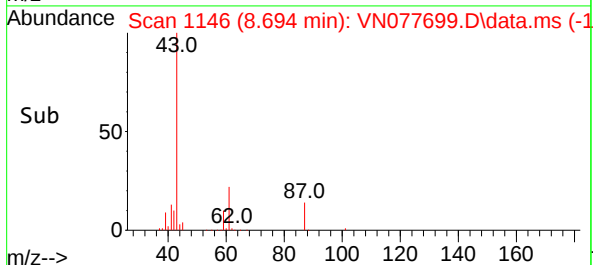
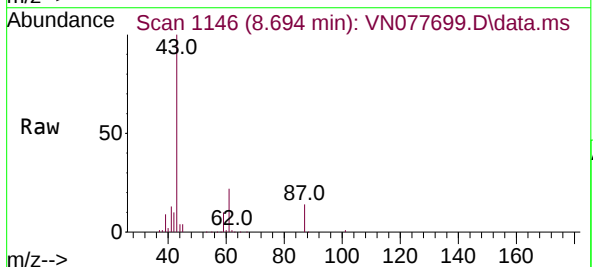


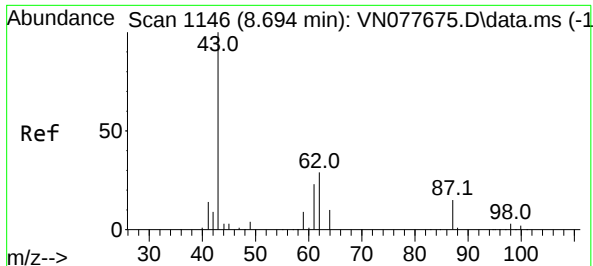
Tgt Ion:117 Resp: 38520
Ion Ratio Lower Upper
117 100
119 3.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.305 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 62 Resp: 1927
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

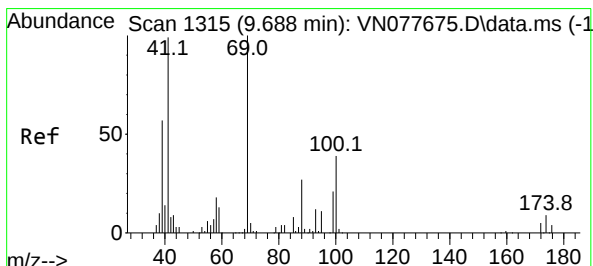
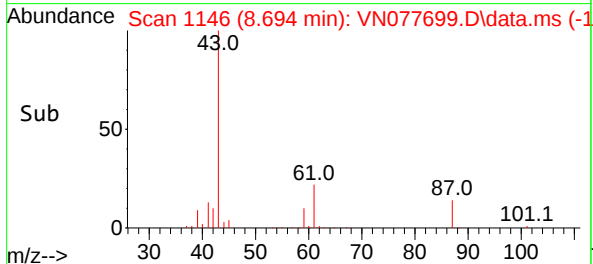
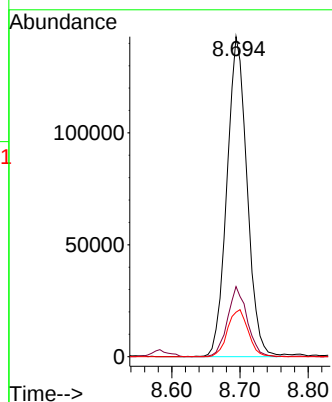
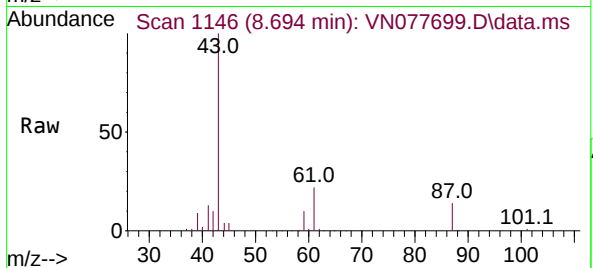




#43
Isopropyl Acetate
Concen: 34.171 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

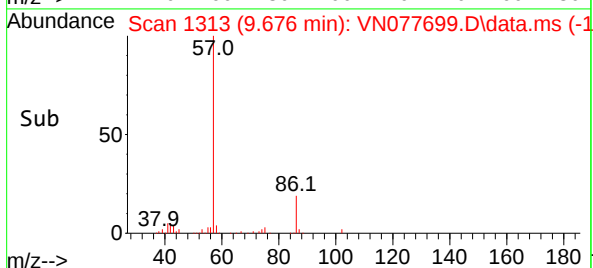
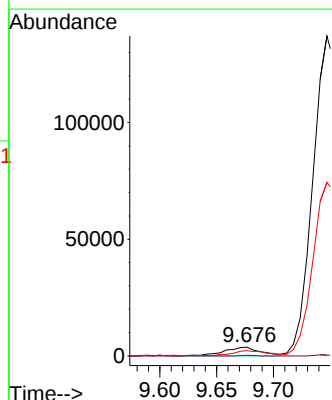
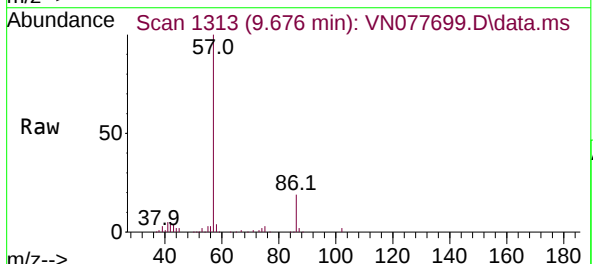
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

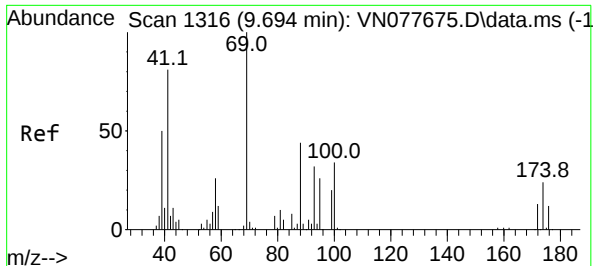
Tgt Ion: 43 Resp: 293454
Ion Ratio Lower Upper
43 100
61 21.3 24.7 37.1#
87 15.1 14.6 21.8



#48
Methyl methacrylate
Concen: 2.091 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 41 Resp: 8514
Ion Ratio Lower Upper
41 100
69 2.6 90.4 135.6#
39 0.0 54.6 81.8#





#49

1,4-Dioxane

Concen: 1.703 ug/l

RT: 9.676 min Scan# 1316

Delta R.T. -0.018 min

Lab File: VN077699.D

Acq: 16 May 2023 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB152801TB

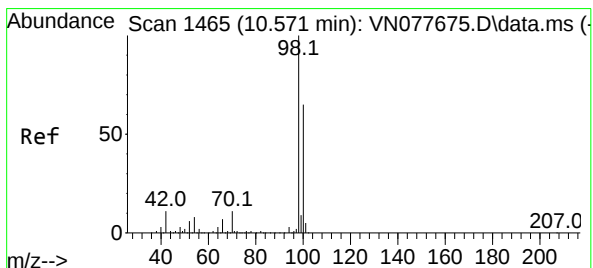
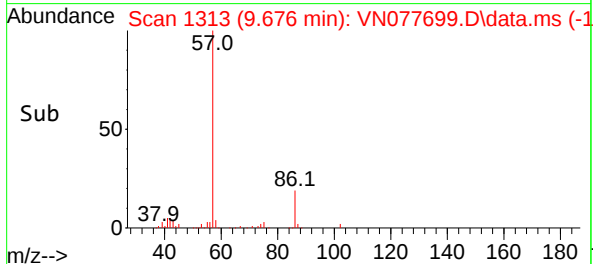
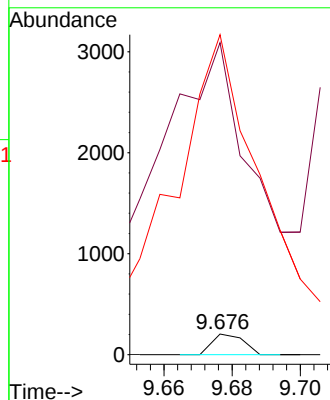
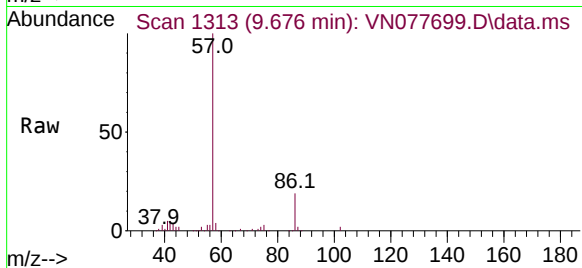
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 4612.2 47.0 70.4#



#50

Toluene-d8

Concen: 50.415 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN077699.D

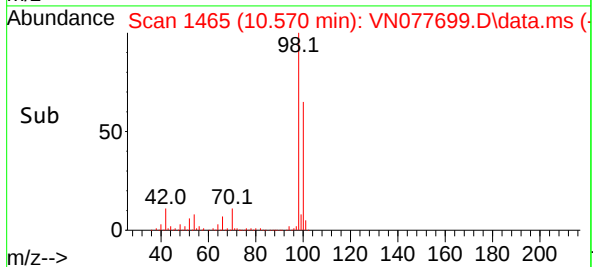
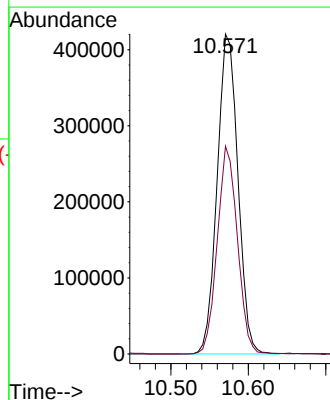
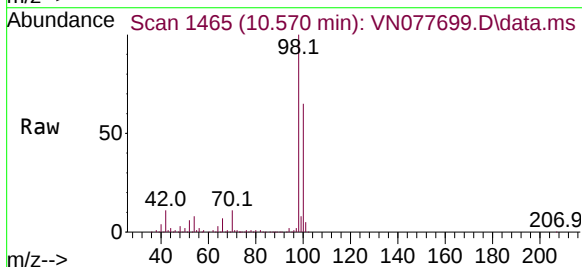
Acq: 16 May 2023 17:50

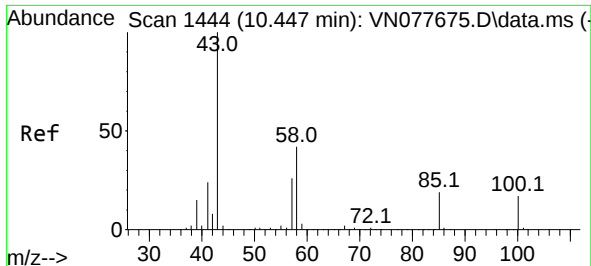
Tgt Ion: 98 Resp: 782592

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0

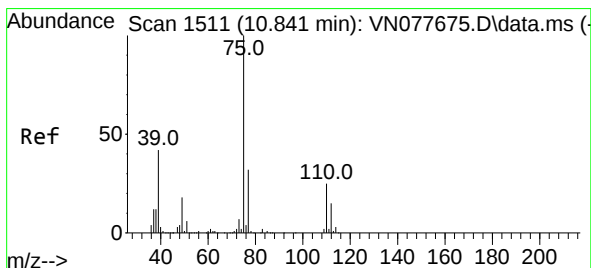
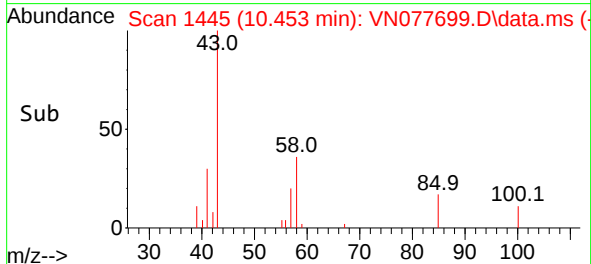
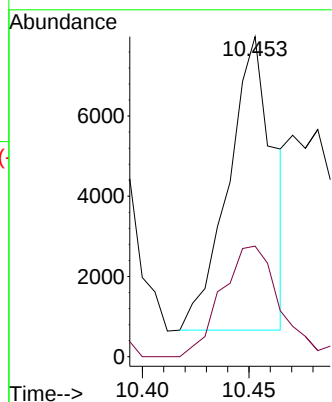
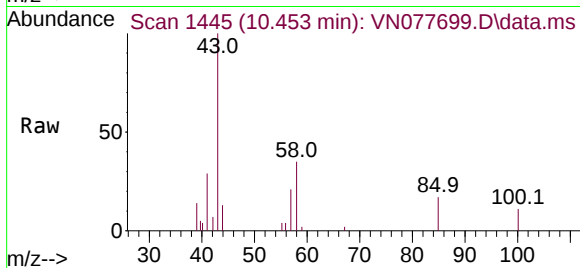




#51
4-Methyl-2-Pentanone
Concen: 2.115 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

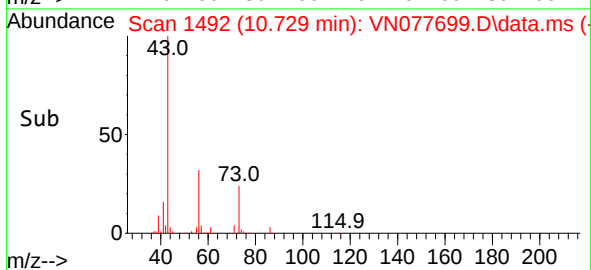
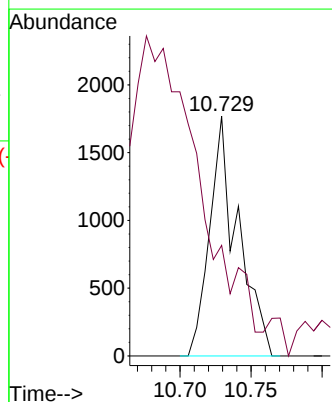
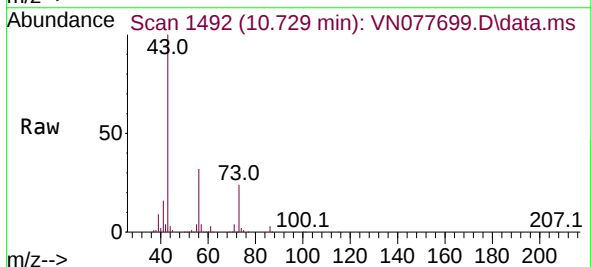
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

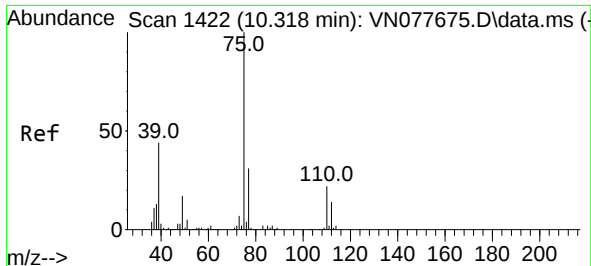
Tgt Ion: 43 Resp: 10796
Ion Ratio Lower Upper
43 100
58 48.5 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.379 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 75 Resp: 2443
Ion Ratio Lower Upper
75 100
77 30.3 25.4 38.0

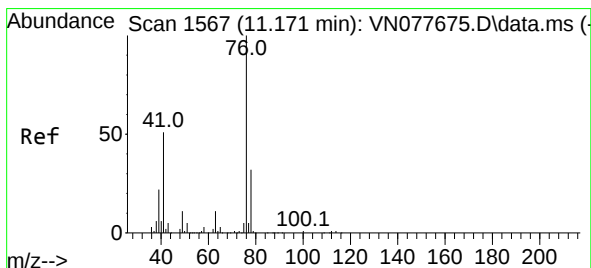
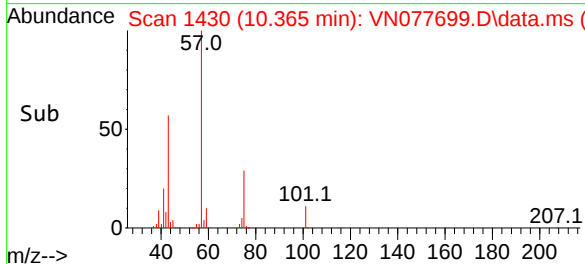
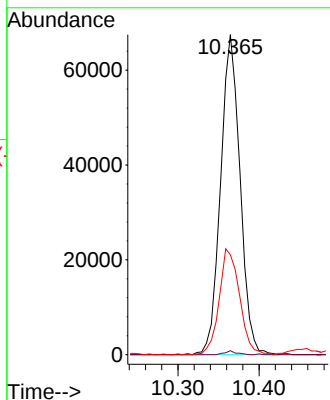
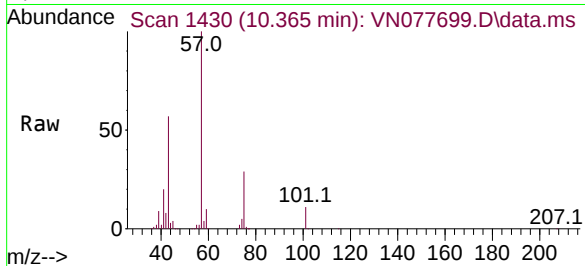




#54
 cis-1,3-Dichloropropene
 Concen: 15.852 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN077699.D
 Acq: 16 May 2023 17:50

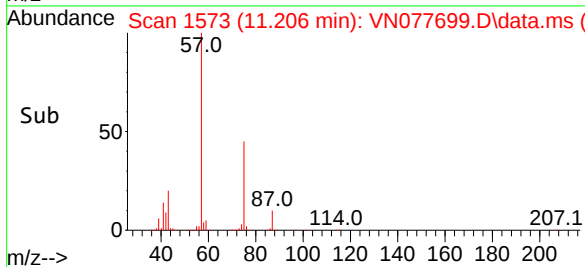
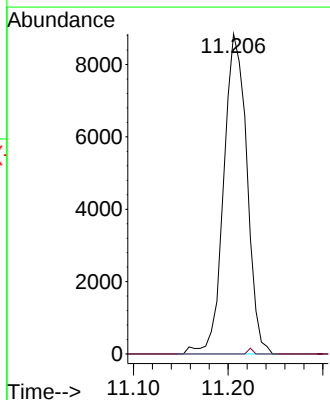
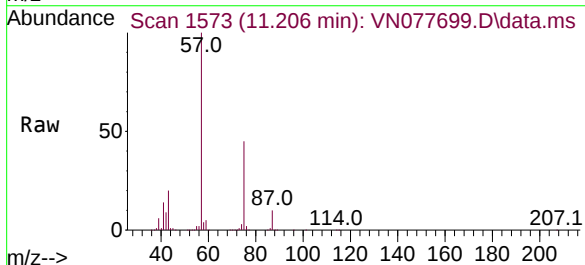
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152801TB

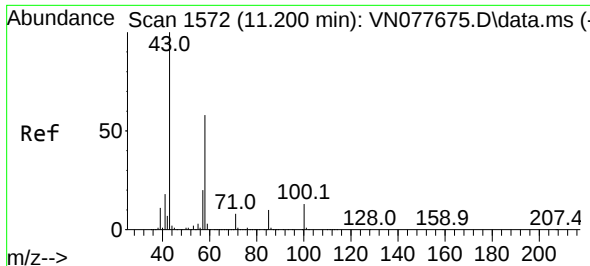
Tgt Ion: 75 Resp: 112525
 Ion Ratio Lower Upper
 75 100
 77 1.3 26.1 39.1#
 39 31.0 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 2.038 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN077699.D
 Acq: 16 May 2023 17:50

Tgt Ion: 76 Resp: 15036
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.1 39.1#

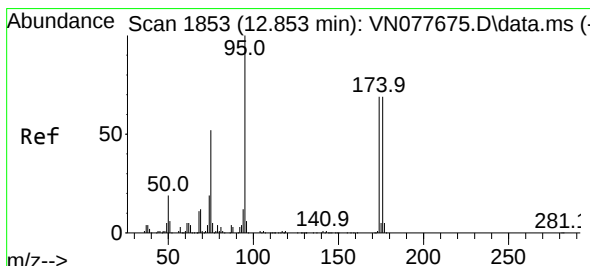
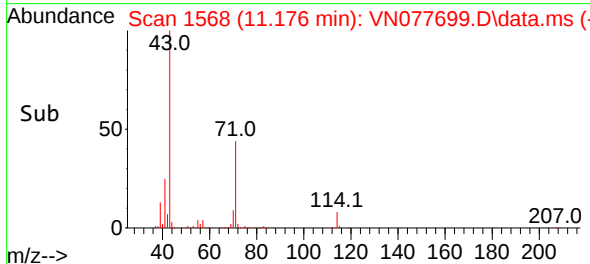
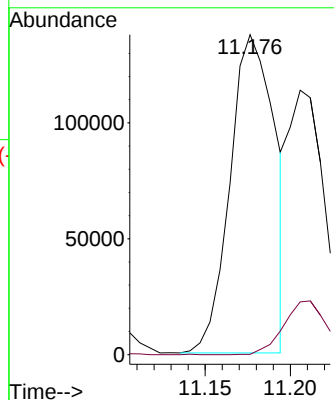
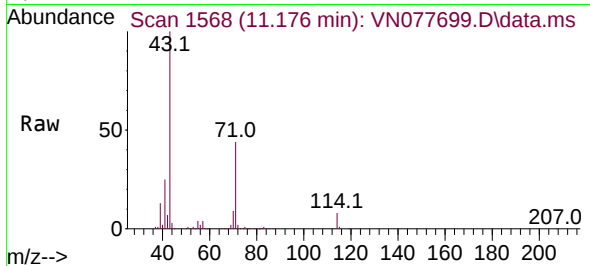




#59
2-Hexanone
Concen: 66.341 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.024 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

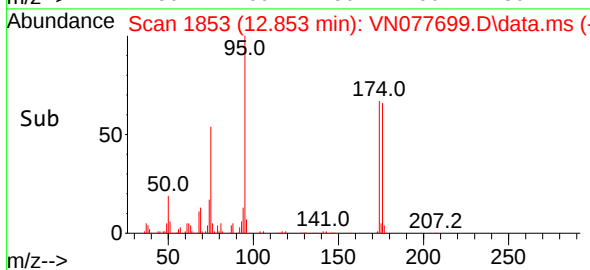
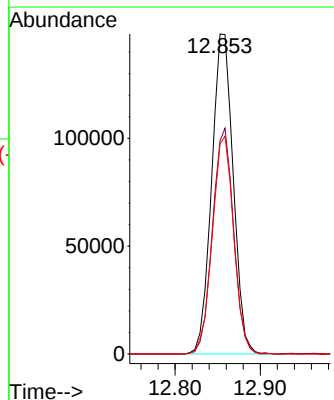
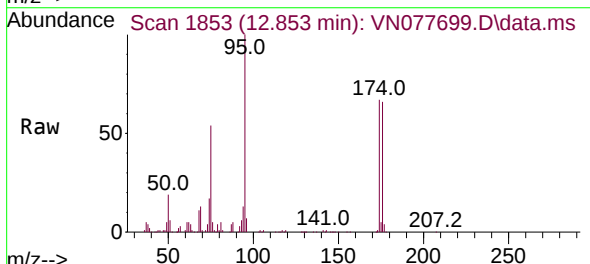
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

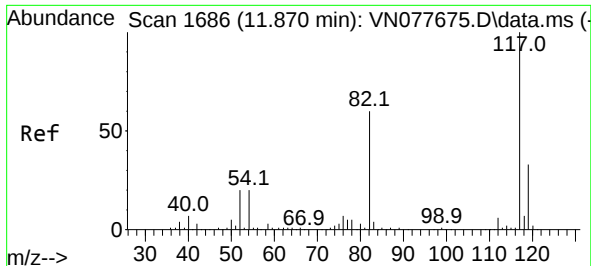
Tgt Ion: 43 Resp: 250488
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.505 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 95 Resp: 260443
Ion Ratio Lower Upper
95 100
174 69.2 0.0 143.8
176 67.3 0.0 135.8

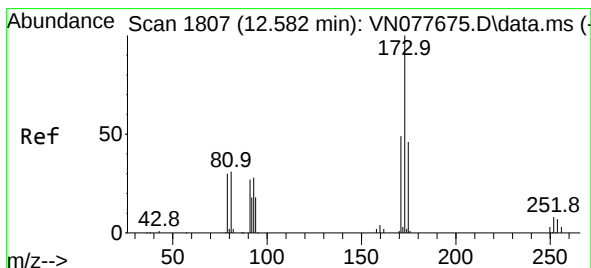
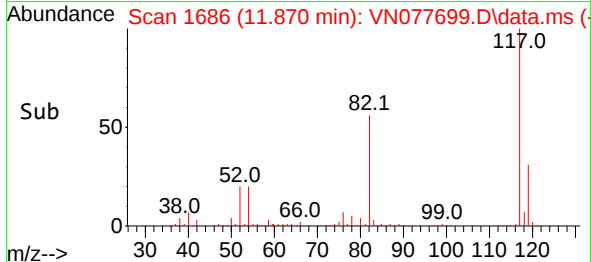
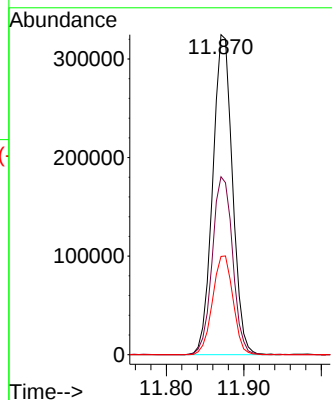
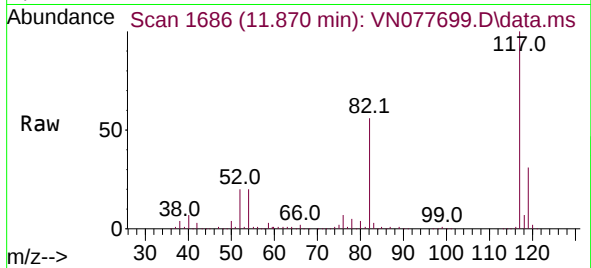




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

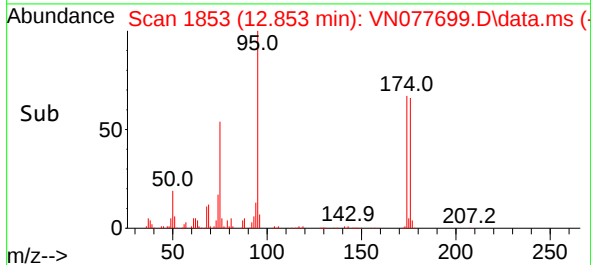
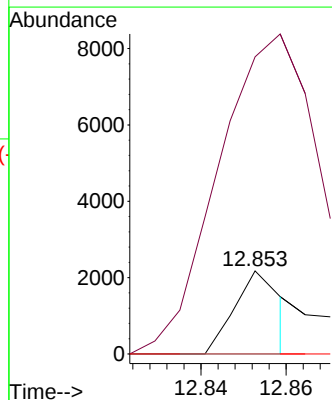
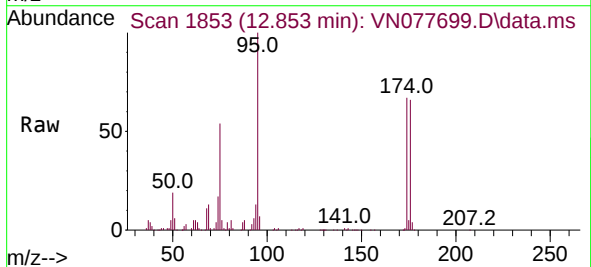
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

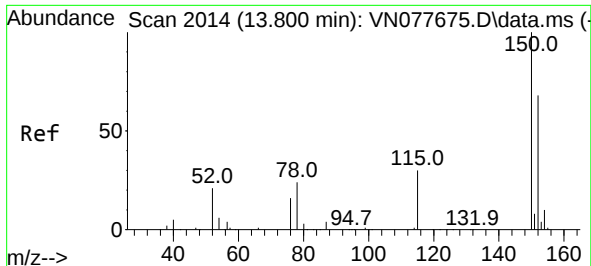
Tgt Ion:117 Resp: 574926
Ion Ratio Lower Upper
117 100
82 55.6 44.0 66.0
119 30.7 25.6 38.4



#71
Bromoform
Concen: 0.576 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion:173 Resp: 1653
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

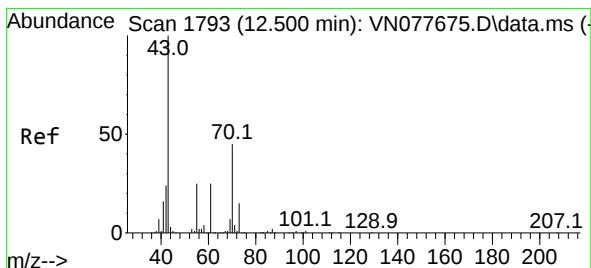
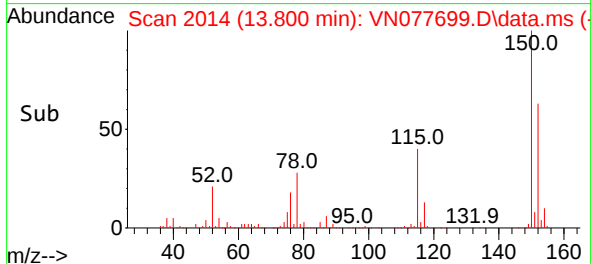
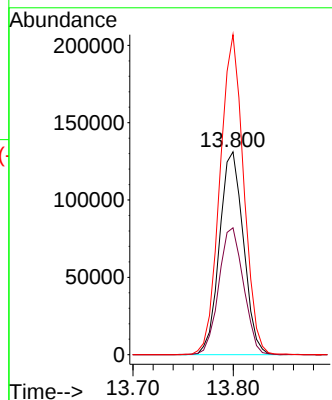
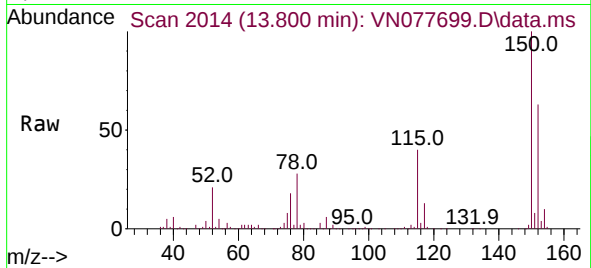




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

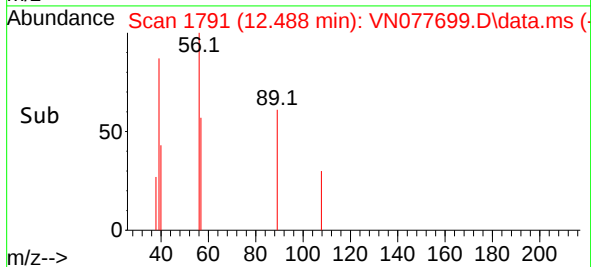
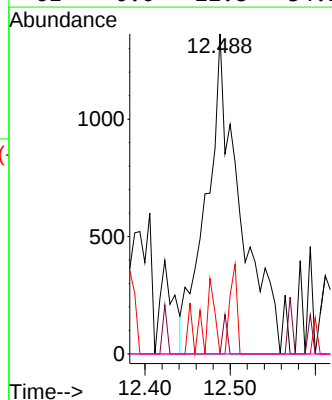
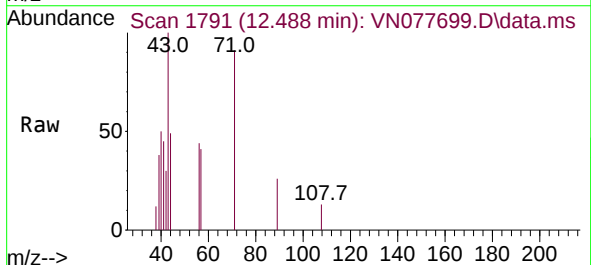
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

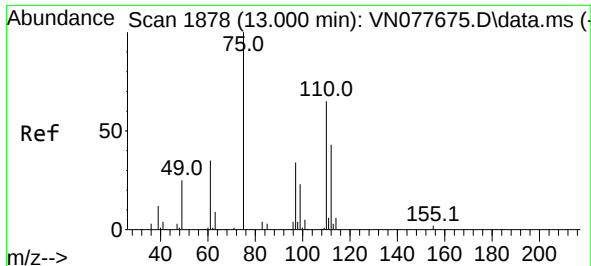
Tgt Ion:152 Resp: 217118
Ion Ratio Lower Upper
152 100
115 64.4 32.3 96.8
150 156.4 0.0 355.8



#74
N-ethyl acetate
Concen: 0.542 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 43 Resp: 3748
Ion Ratio Lower Upper
43 100
70 1.6 43.4 65.2#
55 5.9 21.4 32.0#
61 0.0 22.8 34.2#

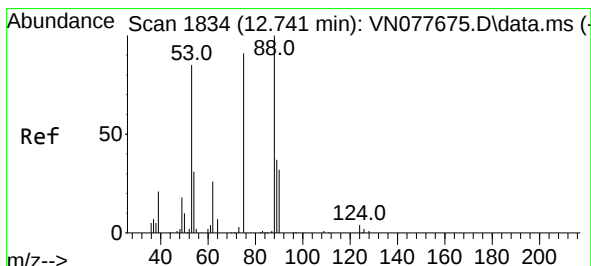
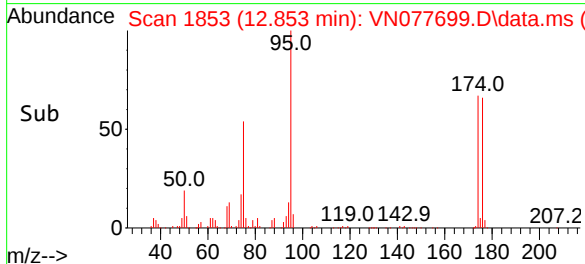
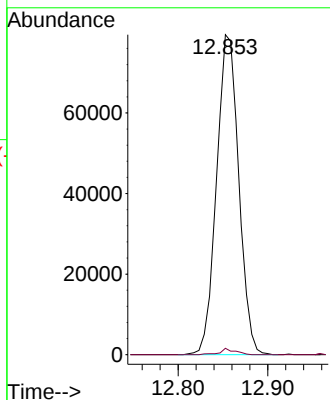
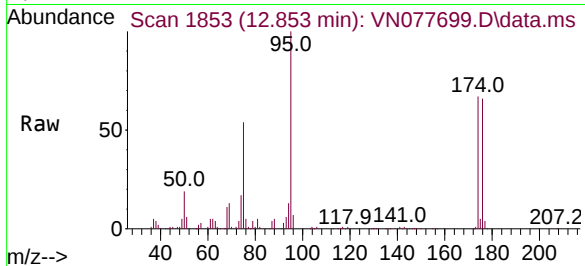




#76
1,2,3-Trichloropropane
Concen: 25.108 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

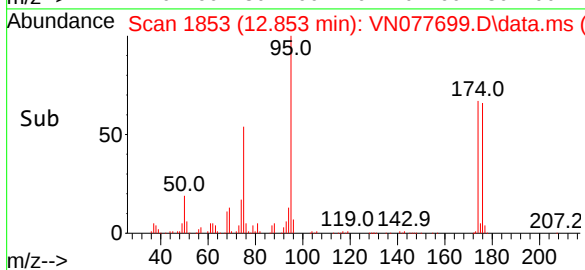
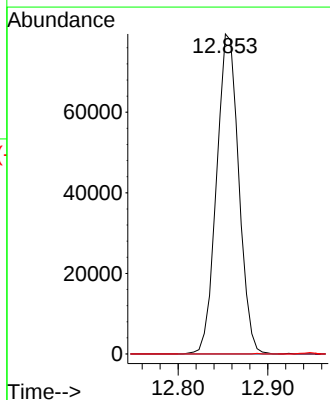
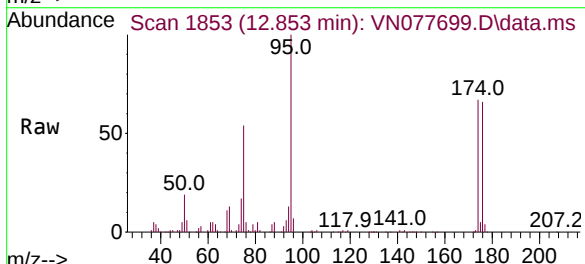
Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

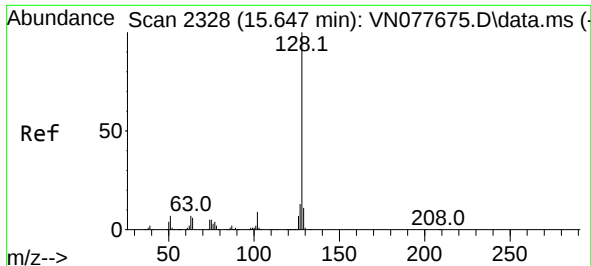
Tgt Ion: 75 Resp: 136524
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.259 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion: 75 Resp: 136524
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

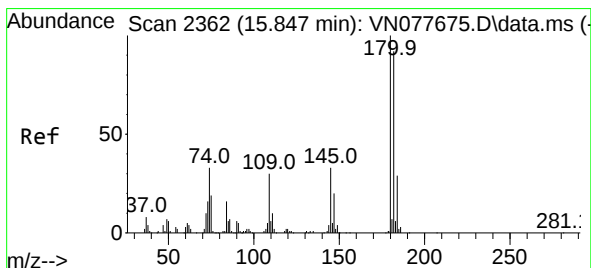
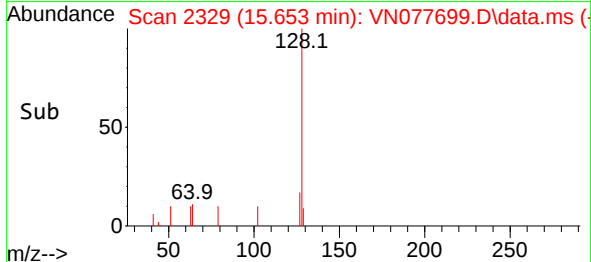
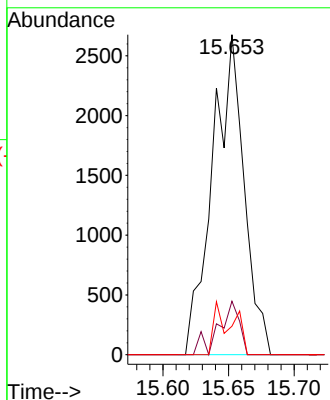
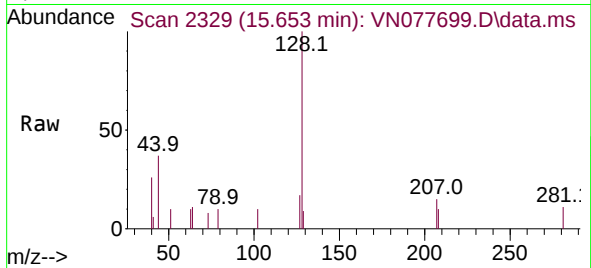




#95
Naphthalene
Concen: 0.302 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Instrument :
MSVOA_N
ClientSampleId :
PB152801TB

Tgt Ion:128 Resp: 4488
Ion Ratio Lower Upper
128 100
127 11.0 10.0 15.0
129 9.6 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.294 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN077699.D
Acq: 16 May 2023 17:50

Tgt Ion:180 Resp: 1240
Ion Ratio Lower Upper
180 100
182 80.6 46.2 138.6
145 10.7 17.5 52.6#

