

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
 Data File : VN077857.D
 Acq On : 24 May 2023 17:07
 Operator : JC\MD
 Sample : 02898-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20230522

Quant Time: May 25 01:43:24 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)

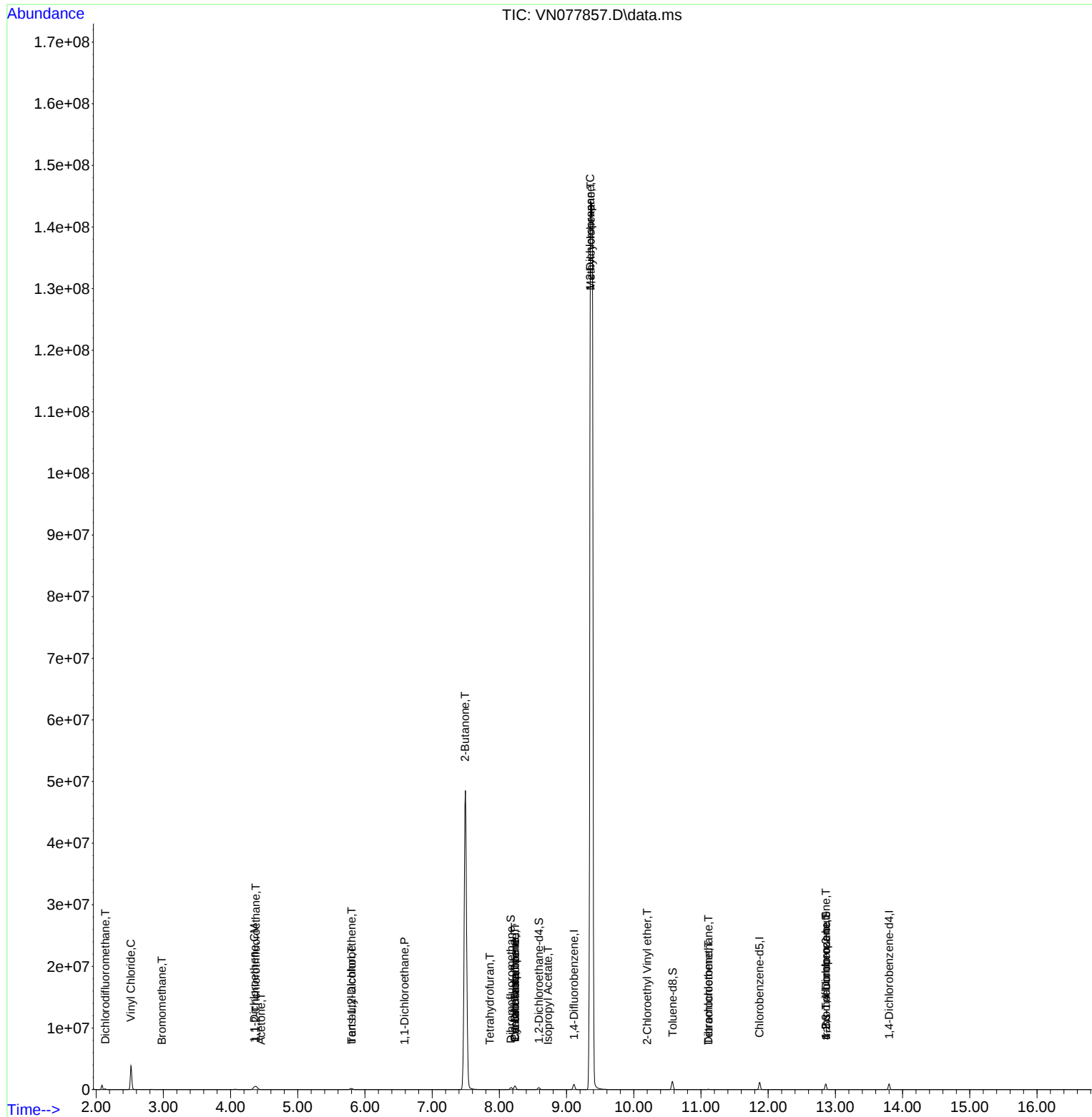
Internal Standards						
1) Pentafluorobenzene	8.235	168	421056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	762516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	704745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	255161	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	278581	44.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.440%		
35) Dibromofluoromethane	8.171	113	241729	48.615	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.240%		
50) Toluene-d8	10.576	98	952813	49.785	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.560%		
62) 4-Bromofluorobenzene	12.859	95	335401	49.620	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.240%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.136	85	101195	21.118	ug/l	99
3) Chloromethane	2.371	50	1825	Below Cal	#	77
4) Vinyl Chloride	2.518	62	3661622	606.074	ug/l	99
5) Bromomethane	2.977	94	1740	0.389	ug/l #	33
9) 1,1,2-Trichlorotrifluo...	4.377	101	298000	63.955	ug/l	98
11) Tert butyl alcohol	5.800	59	5234	6.020	ug/l #	76
12) 1,1-Dichloroethene	4.353	96	167454	37.812	ug/l	89
13) Acrolein	4.200	56	169	Below Cal	#	50
16) Acetone	4.453	43	8729	4.404	ug/l	99
20) Methylene Chloride	5.294	84	455	Below Cal	#	58
21) trans-1,2-Dichloroethene	5.800	96	125459	25.220	ug/l #	85
24) 1,1-Dichloroethane	6.589	63	6843	0.732	ug/l #	81
25) 2-Butanone	7.488	43	1939	0.625	ug/l #	1
29) Tetrahydrofuran	7.859	42	917	0.452	ug/l #	52
31) Cyclohexane	8.230	56	9393	1.097	ug/l #	41
36) 1,1-Dichloropropene	8.230	75	35739	4.914	ug/l #	47
38) Carbon Tetrachloride	8.235	117	45162	6.150	ug/l #	15
39) Methylcyclohexane	9.359	83	1512905	169.919	ug/l #	1
43) Isopropyl Acetate	8.724	43	3029	0.286	ug/l #	49
45) 1,2-Dichloropropane	9.353	63	372195	67.990	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.200	63	1031	0.261	ug/l #	42
60) Dibromochloromethane	11.112	129	17697	3.231	ug/l #	11
64) Tetrachloroethene	11.112	164	15831	3.212	ug/l #	79
76) 1,2,3-Trichloropropane	12.859	75	173619	27.170	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	173619	86.849	ug/l #	15

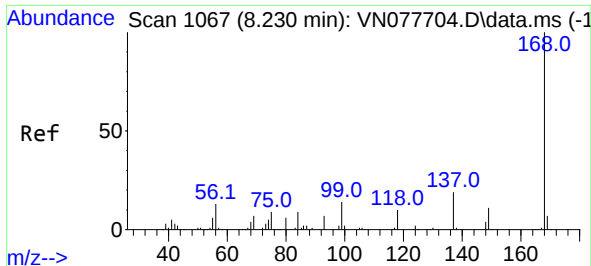
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
Data File : VN077857.D
Acq On : 24 May 2023 17:07
Operator : JC\MD
Sample : 02898-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

Quant Time: May 25 01:43:24 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

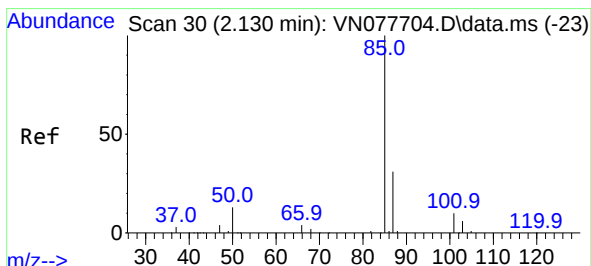
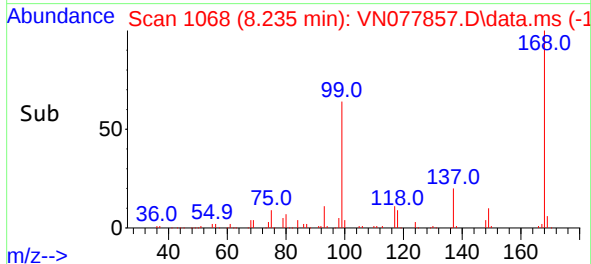
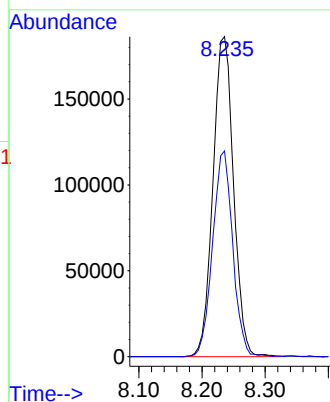
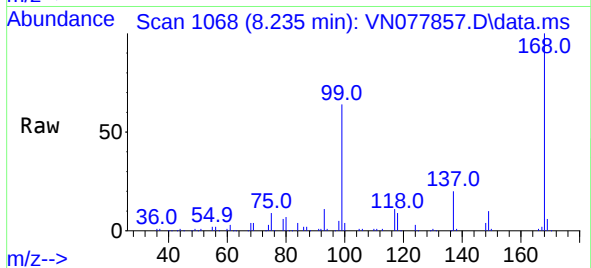




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

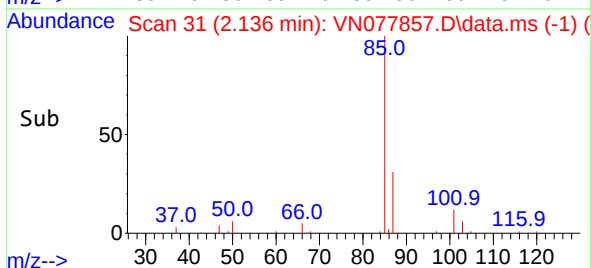
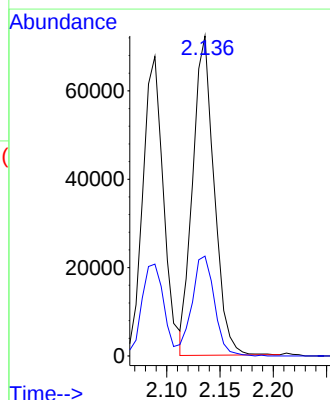
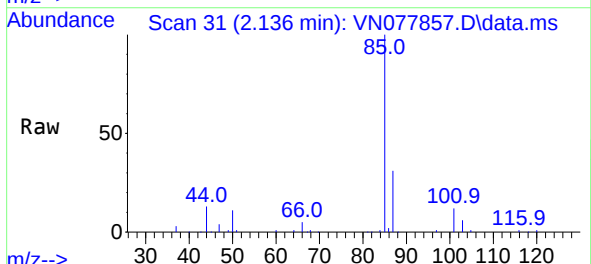
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

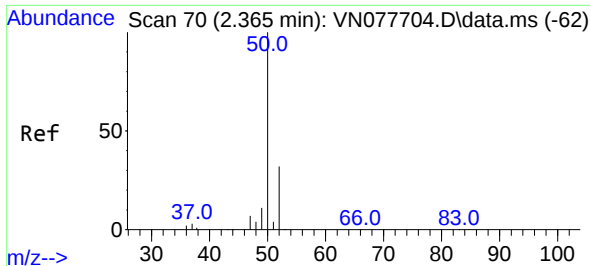
Tgt Ion:168 Resp: 421056
Ion Ratio Lower Upper
168 100
99 64.3 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 21.118 ug/l
RT: 2.136 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 85 Resp: 101195
Ion Ratio Lower Upper
85 100
87 31.3 15.8 47.4

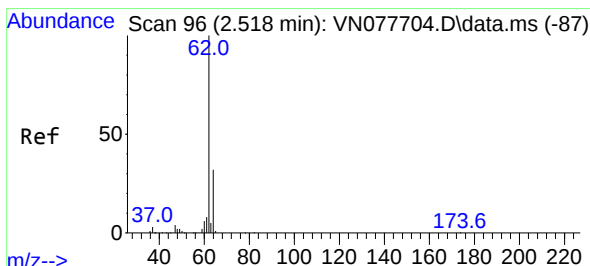
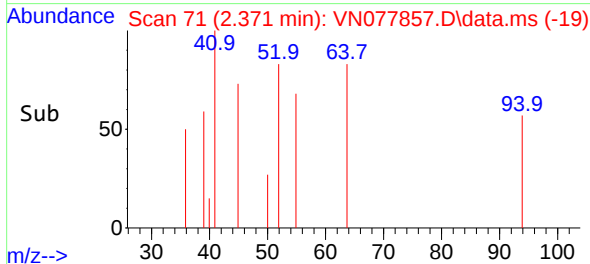
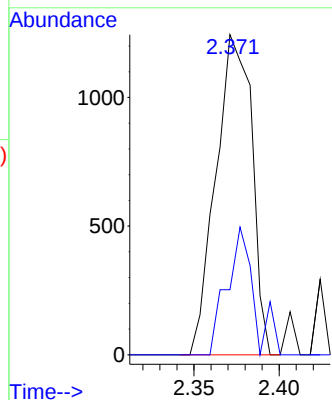
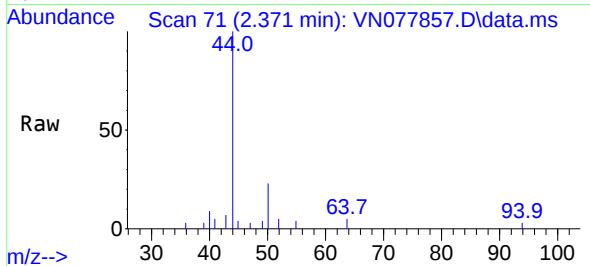




#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

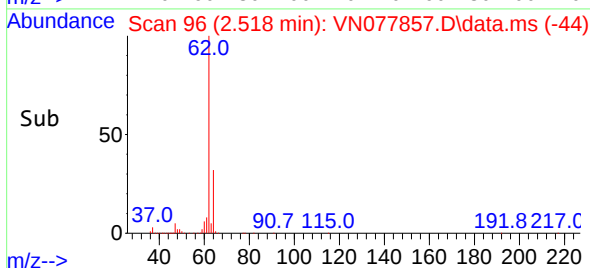
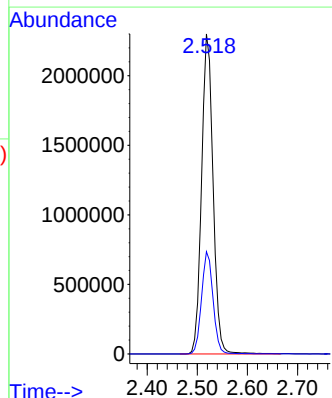
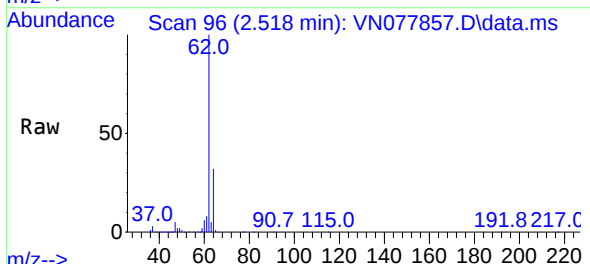
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

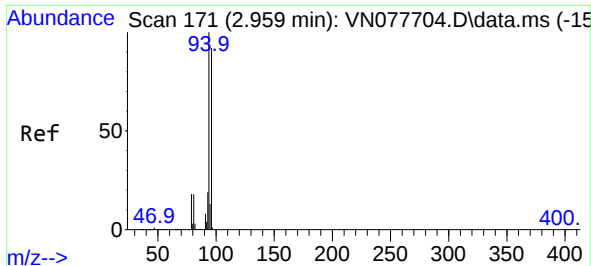
Tgt Ion: 50 Resp: 1825
Ion Ratio Lower Upper
50 100
52 20.3 26.5 39.7#



#4
Vinyl Chloride
Concen: 606.074 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 62 Resp: 3661622
Ion Ratio Lower Upper
62 100
64 31.9 26.2 39.2

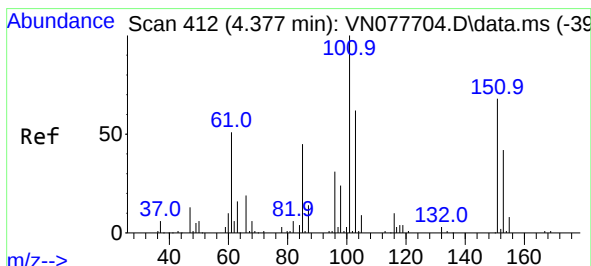
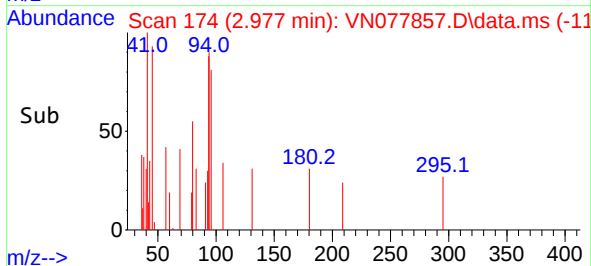
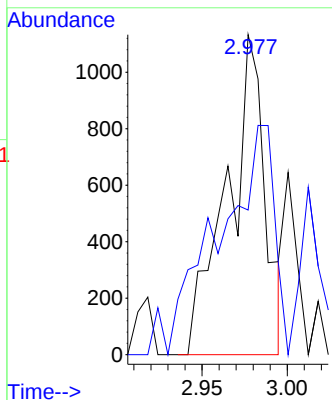
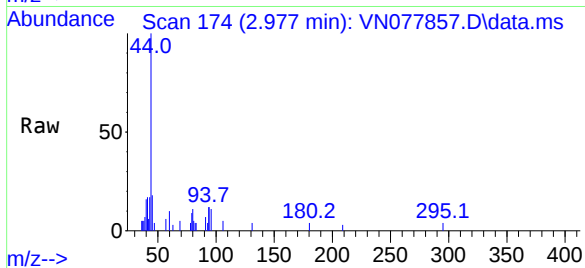




#5
Bromomethane
Concen: 0.389 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

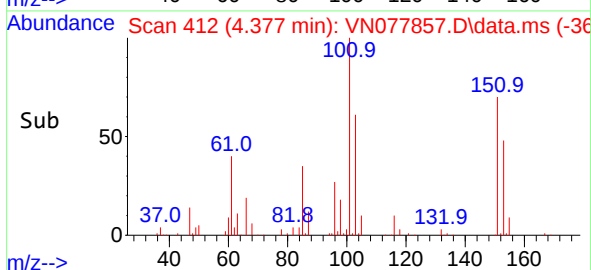
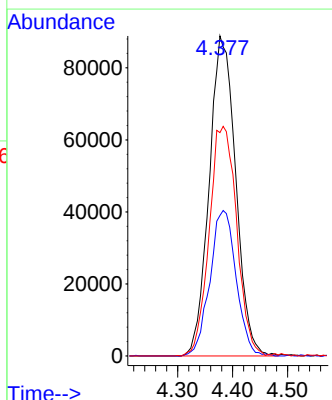
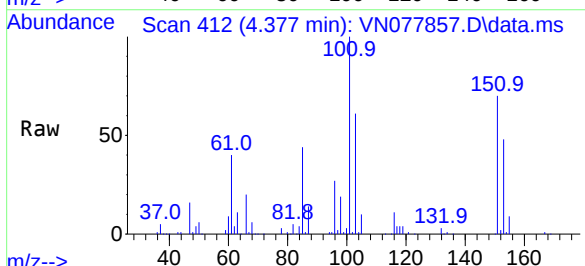
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

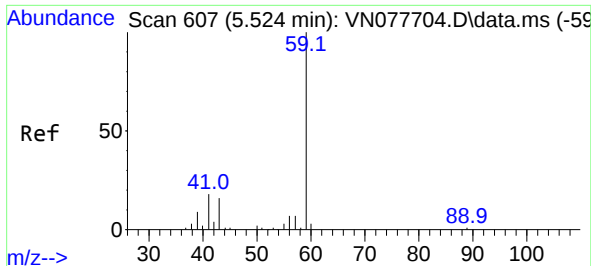
Tgt Ion: 94 Resp: 1740
Ion Ratio Lower Upper
94 100
96 27.9 73.1 109.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 63.955 ug/l
RT: 4.377 min Scan# 412
Delta R.T. -0.000 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion:101 Resp: 298000
Ion Ratio Lower Upper
101 100
85 45.0 36.6 55.0
151 74.4 57.6 86.4

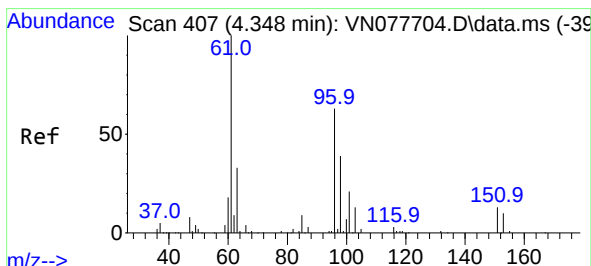
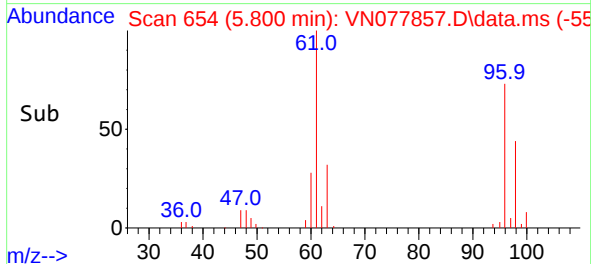
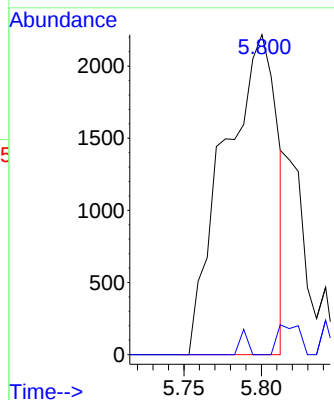
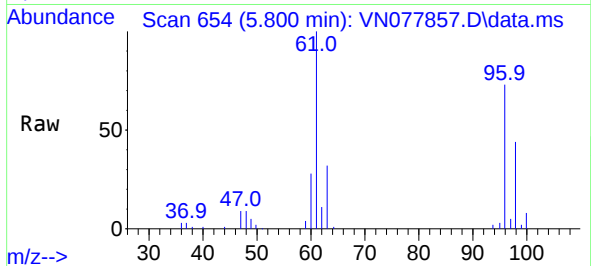




#11
Tert butyl alcohol
Concen: 6.020 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.270 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

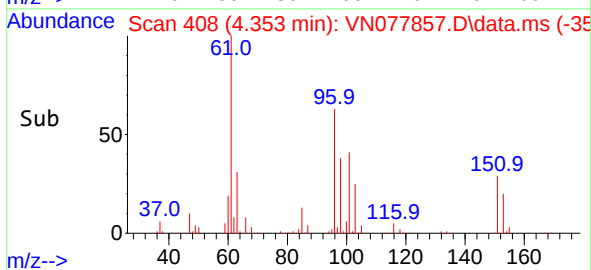
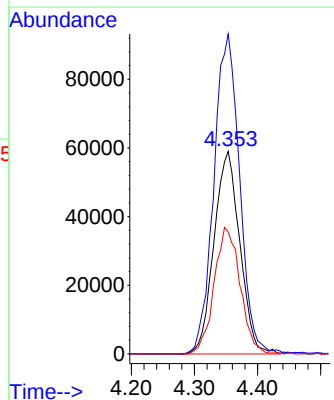
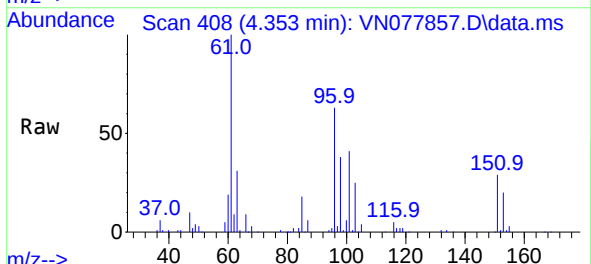
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

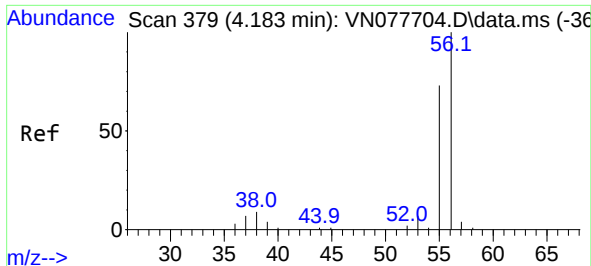
Tgt Ion: 59 Resp: 5234
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 37.812 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 96 Resp: 167454
Ion Ratio Lower Upper
96 100
61 158.0 112.7 169.1
98 60.2 51.2 76.8

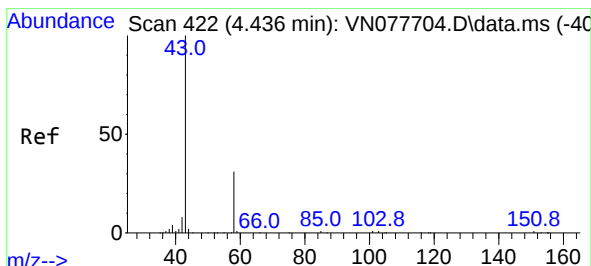
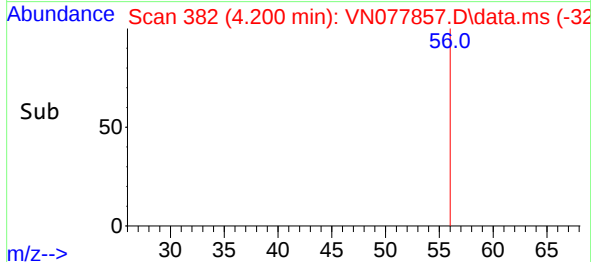
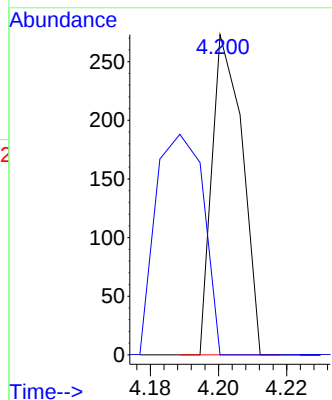
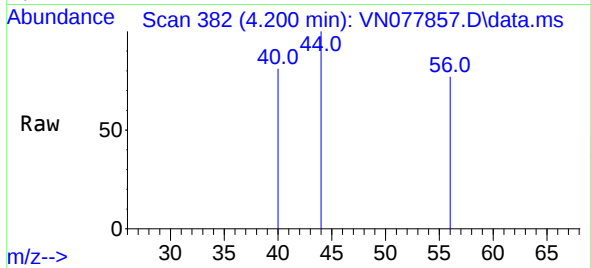




#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

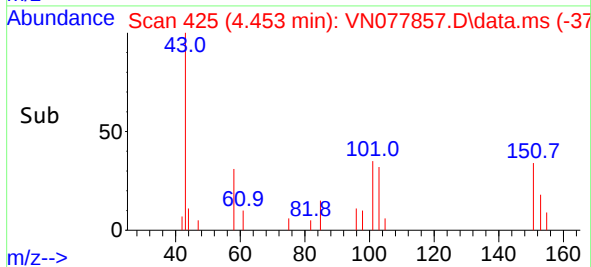
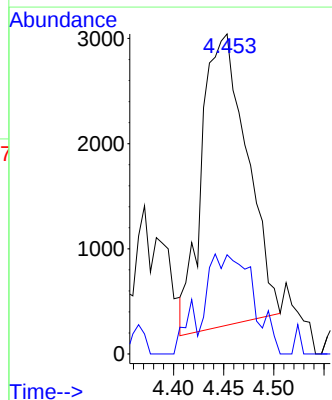
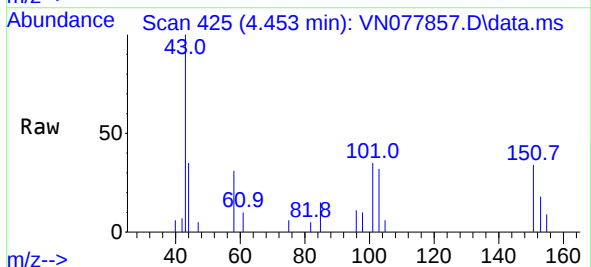
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

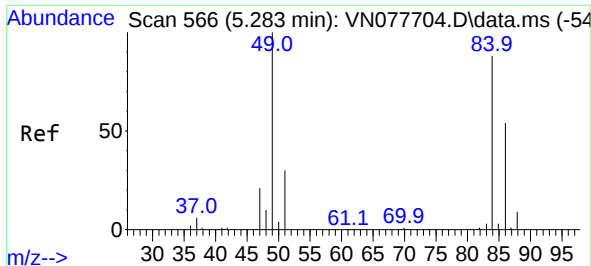
Tgt Ion: 56 Resp: 169
Ion Ratio Lower Upper
56 100
55 108.3 54.5 81.7#



#16
Acetone
Concen: 4.404 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.023 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 43 Resp: 8729
Ion Ratio Lower Upper
43 100
58 35.5 28.0 42.0



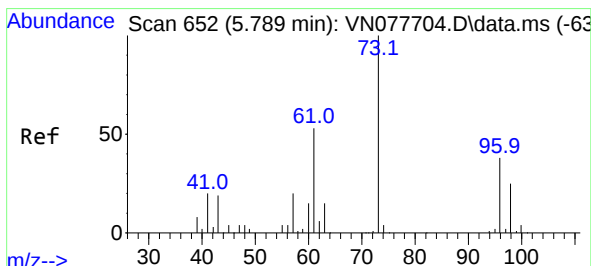
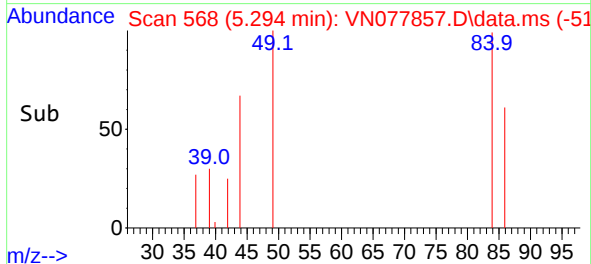
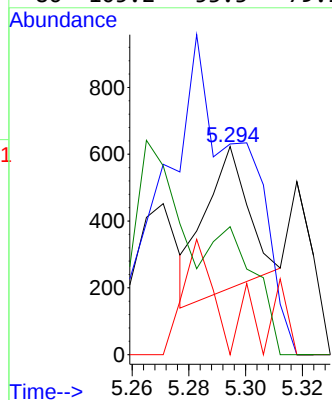
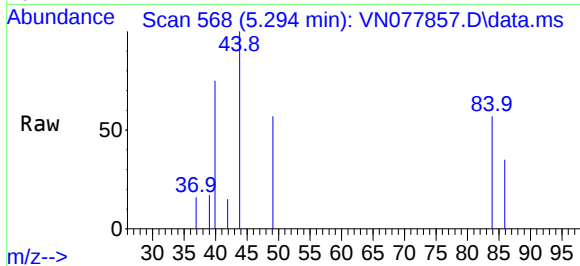


#20
Methylene Chloride
Concen: Below Cal
RT: 5.294 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

Tgt Ion: 84 Resp: 455

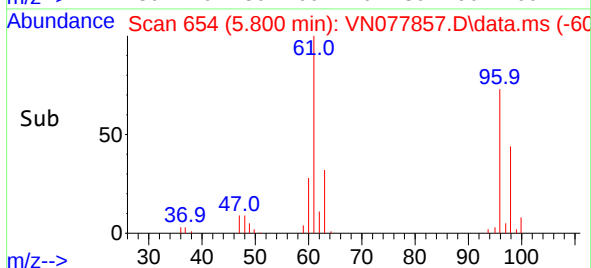
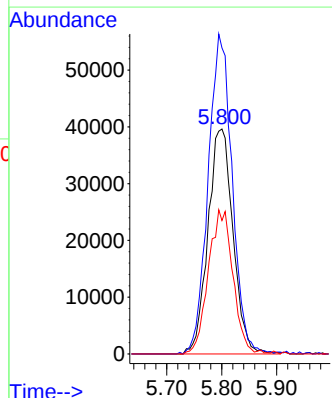
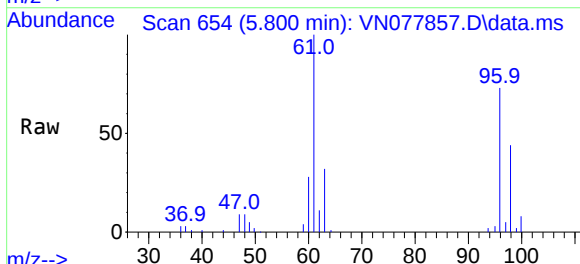
Ion	Ratio	Lower	Upper
84	100		
49	131.9	79.7	119.5#
51	0.0	25.2	37.8#
86	105.2	53.3	79.9#

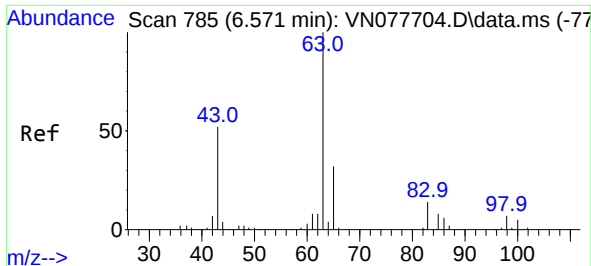


#21
trans-1,2-Dichloroethene
Concen: 25.220 ug/l
RT: 5.800 min Scan# 654
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 96 Resp: 125459

Ion	Ratio	Lower	Upper
96	100		
61	135.3	90.1	135.1#
98	59.4	46.4	69.6

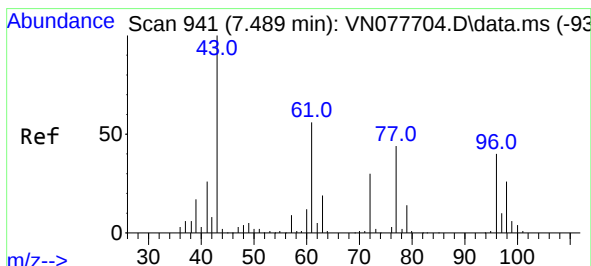
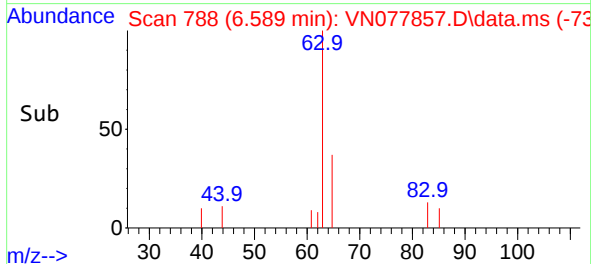
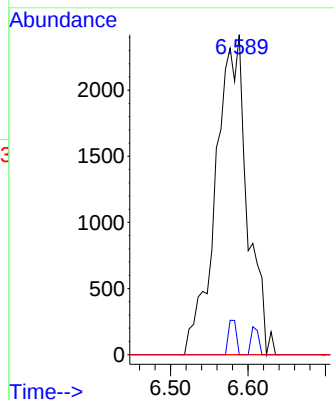
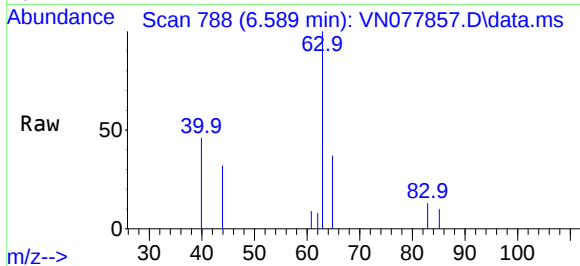




#24
1,1-Dichloroethane
Concen: 0.732 ug/l
RT: 6.589 min Scan# 71
Delta R.T. 0.018 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

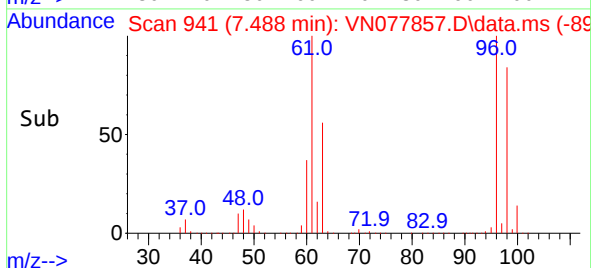
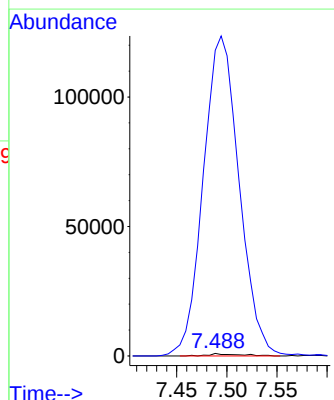
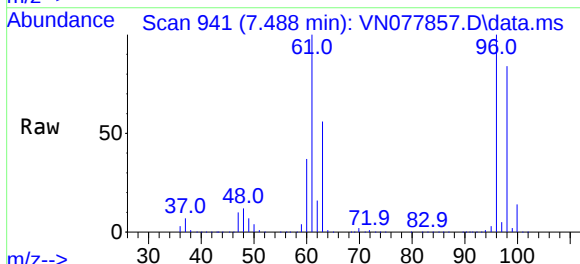
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

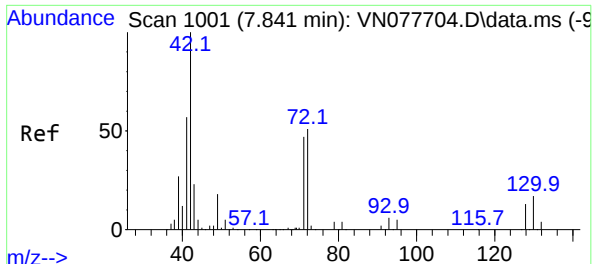
Tgt Ion: 63 Resp: 6843
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.5 7.4#



#25
2-Butanone
Concen: 0.625 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 43 Resp: 1939
Ion Ratio Lower Upper
43 100
72 11766.5 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.452 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN077857.D

Acq: 24 May 2023 17:07

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20230522

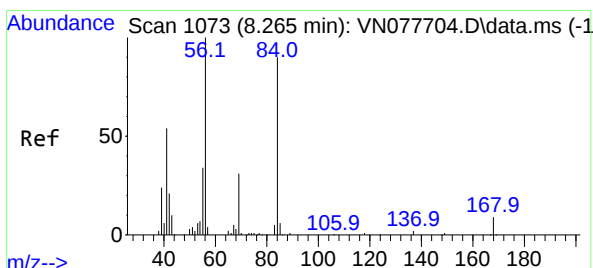
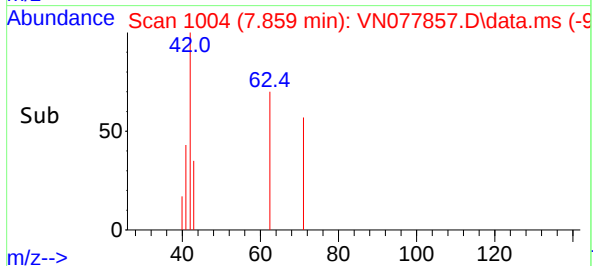
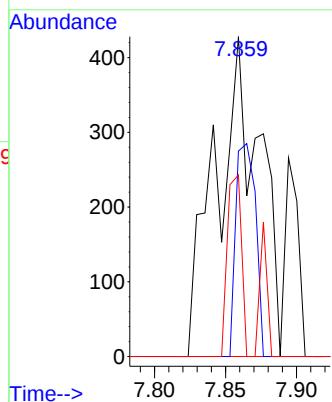
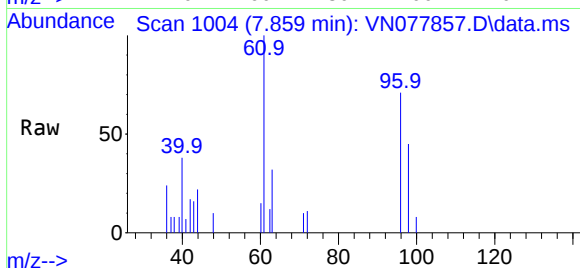
Tgt Ion: 42 Resp: 917

Ion Ratio Lower Upper

42 100

72 30.1 49.8 74.6#

71 18.2 47.4 71.2#



#31

Cyclohexane

Concen: 1.097 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN077857.D

Acq: 24 May 2023 17:07

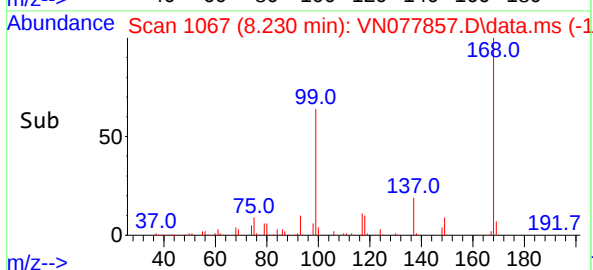
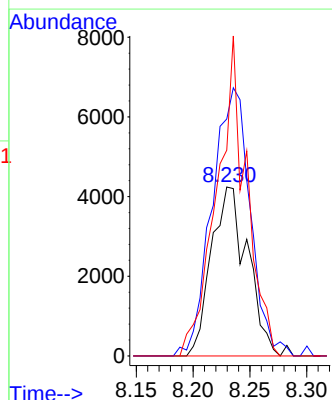
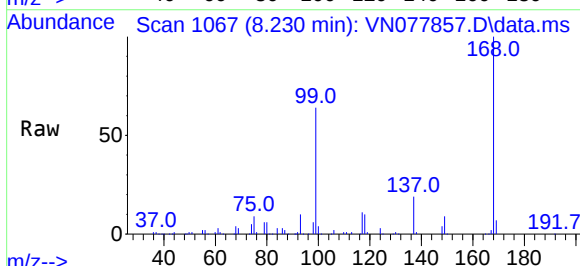
Tgt Ion: 56 Resp: 9393

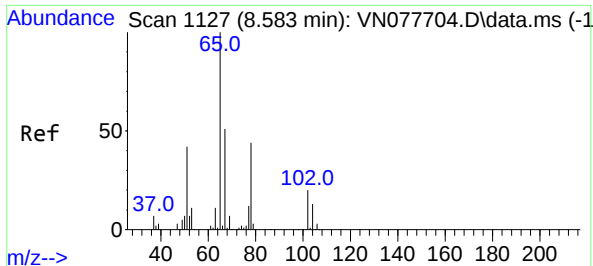
Ion Ratio Lower Upper

56 100

69 135.0 26.8 40.2#

84 121.7 81.8 122.6

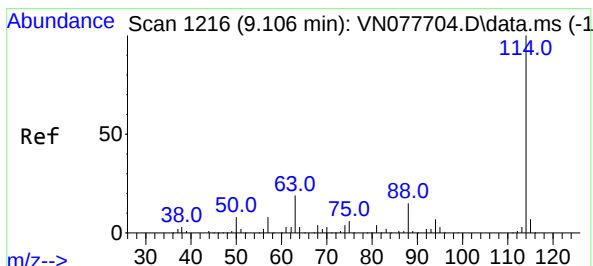
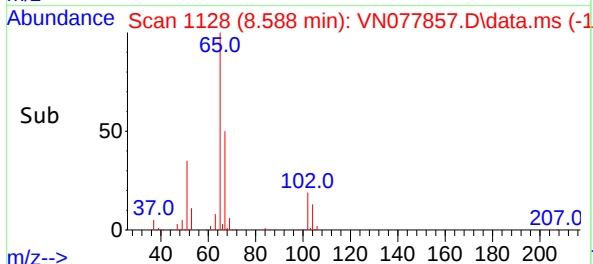
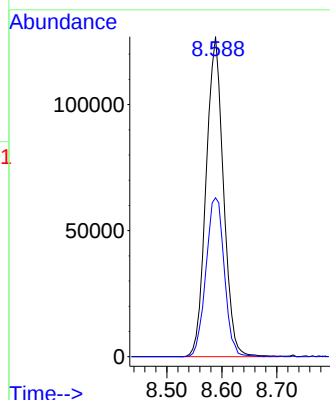
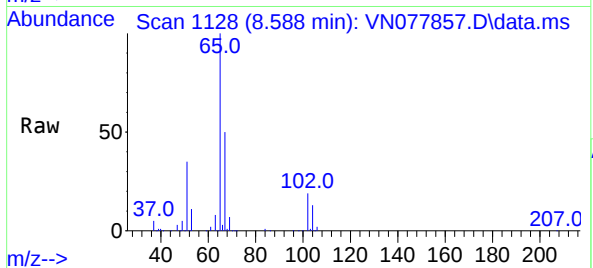




#33
1,2-Dichloroethane-d4
Concen: 44.219 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

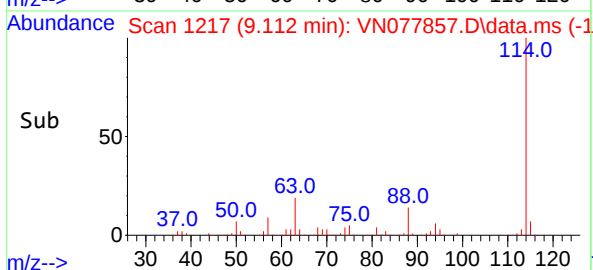
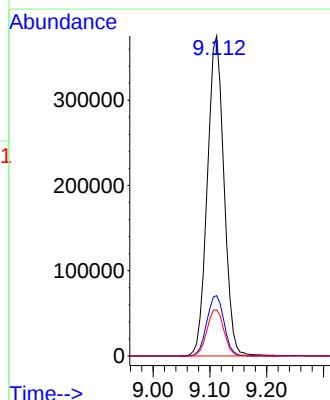
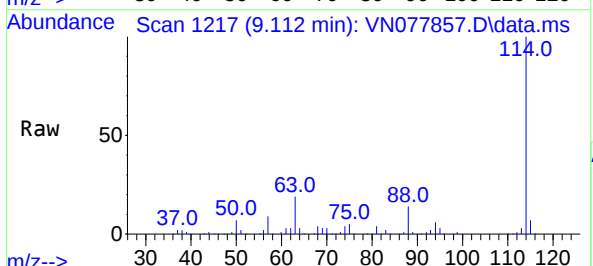
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

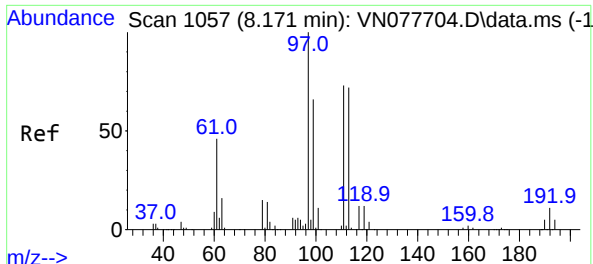
Tgt Ion: 65 Resp: 278581
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

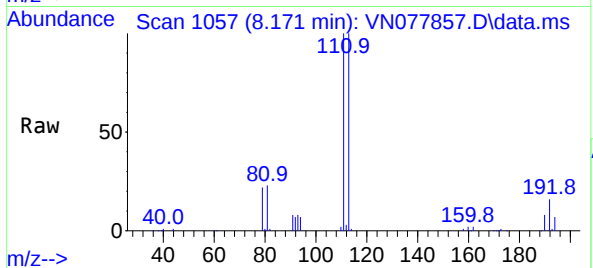
Tgt Ion: 114 Resp: 762516
Ion Ratio Lower Upper
114 100
63 18.8 0.0 36.4
88 14.4 0.0 30.6



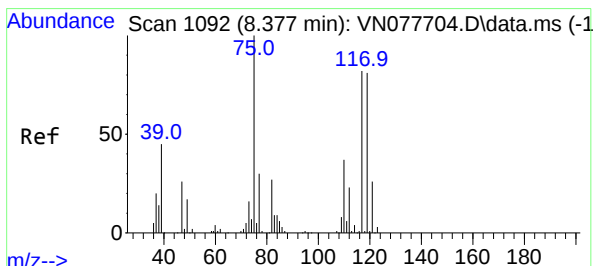
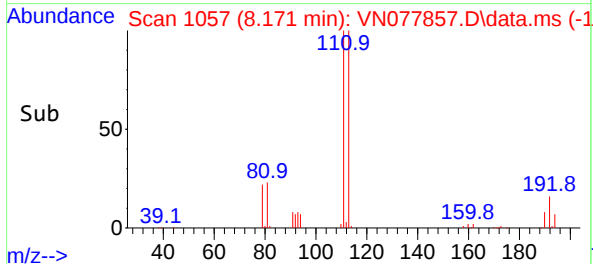
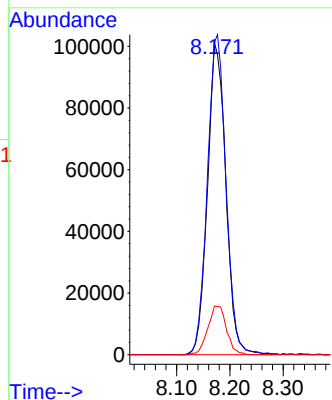


#35
Dibromofluoromethane
Concen: 48.615 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

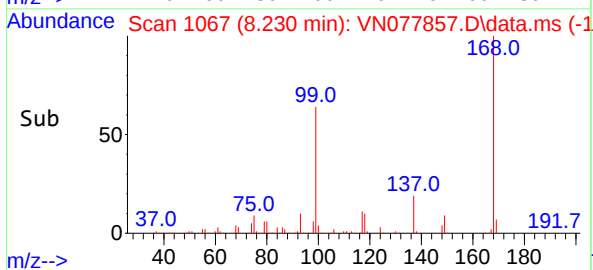
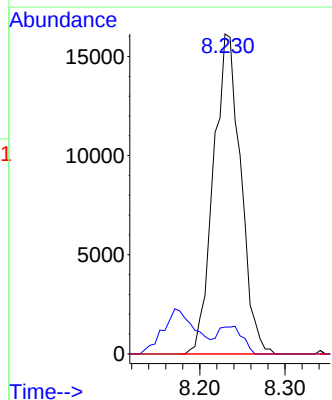
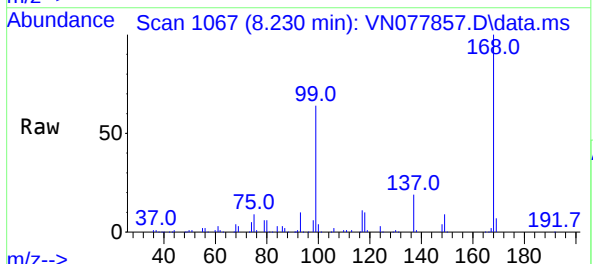


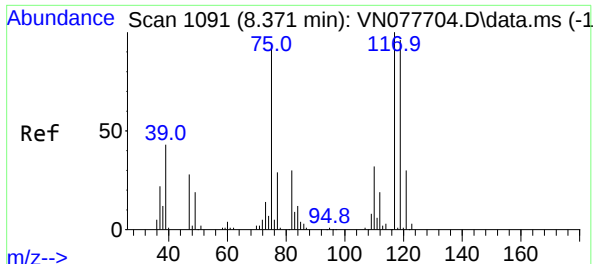
Tgt Ion:113 Resp: 241729
Ion Ratio Lower Upper
113 100
111 104.0 82.6 123.8
192 15.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.914 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

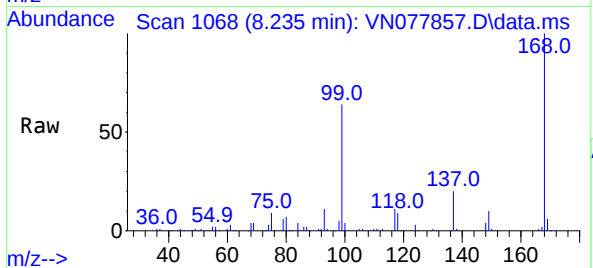
Tgt Ion: 75 Resp: 35739
Ion Ratio Lower Upper
75 100
110 8.0 19.1 57.3#
77 0.0 25.0 37.4#



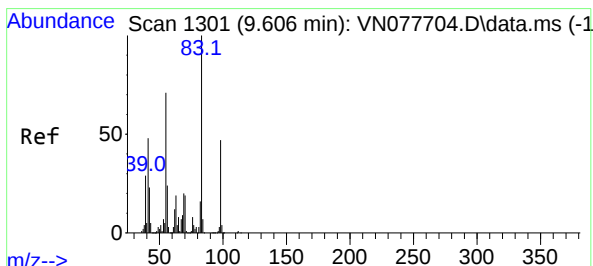
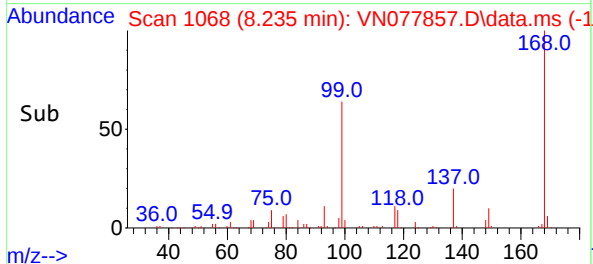
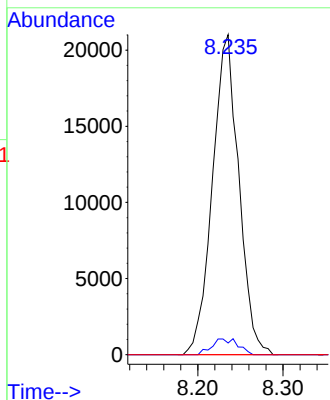


#38
Carbon Tetrachloride
Concen: 6.150 ug/l
RT: 8.235 min Scan# 1091
Delta R.T. -0.136 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

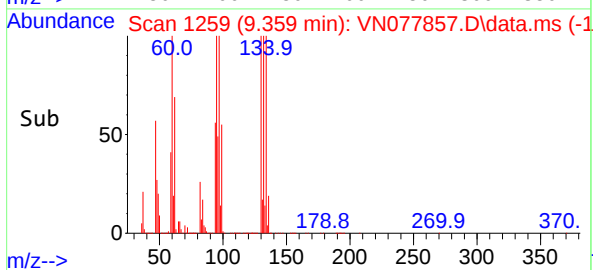
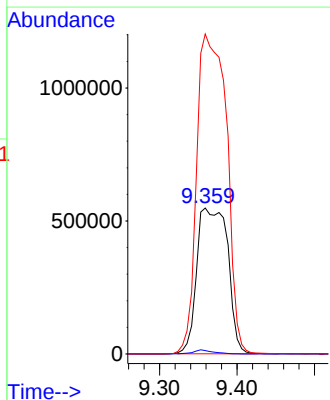
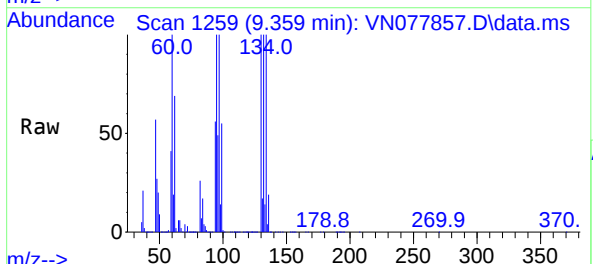


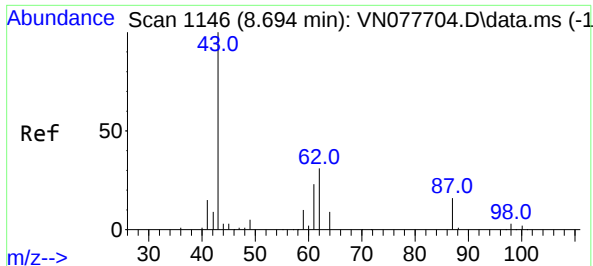
Tgt Ion:117 Resp: 45162
Ion Ratio Lower Upper
117 100
119 3.6 77.3 115.9#
121 0.0 23.3 34.9#



#39
Methylcyclohexane
Concen: 169.919 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.247 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 83 Resp: 1512905
Ion Ratio Lower Upper
83 100
55 2.3 49.1 73.7#
98 219.3 40.6 61.0#

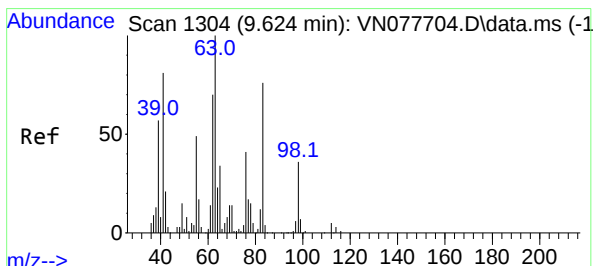
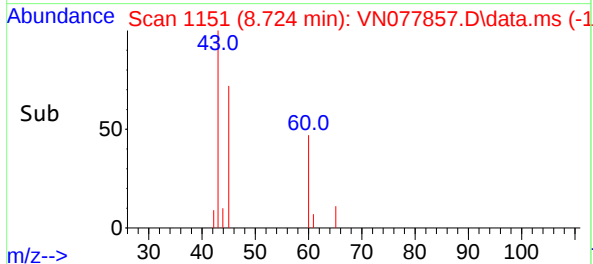
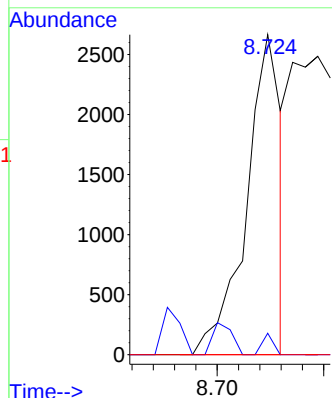
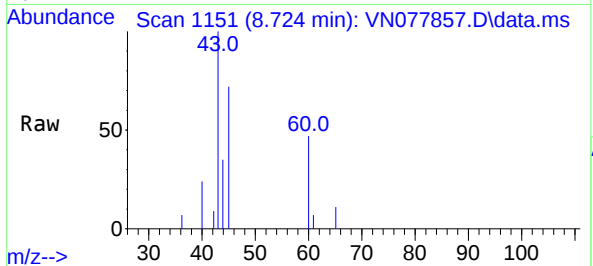




#43
Isopropyl Acetate
Concen: 0.286 ug/l
RT: 8.724 min Scan# 1151
Delta R.T. 0.030 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

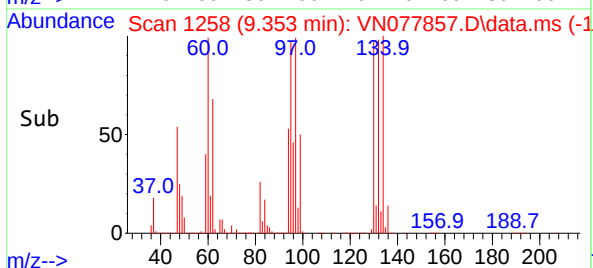
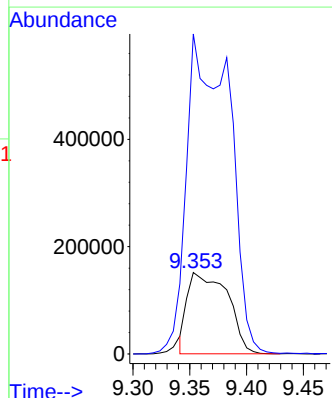
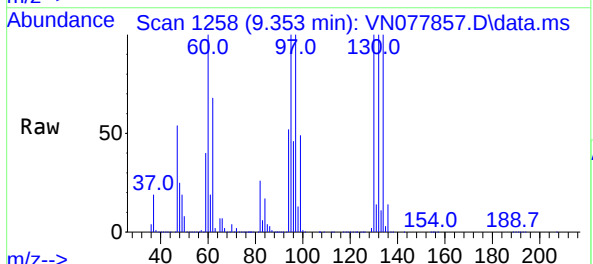
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

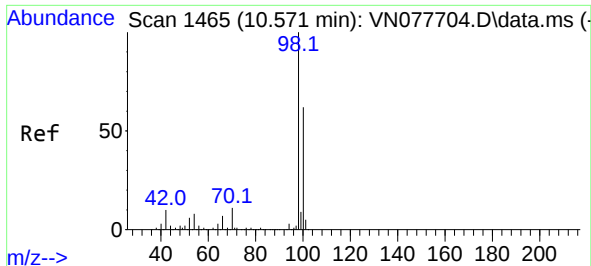
Tgt Ion: 43 Resp: 3029
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 67.990 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.271 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 63 Resp: 372195
Ion Ratio Lower Upper
63 100
65 392.7 23.9 35.9#

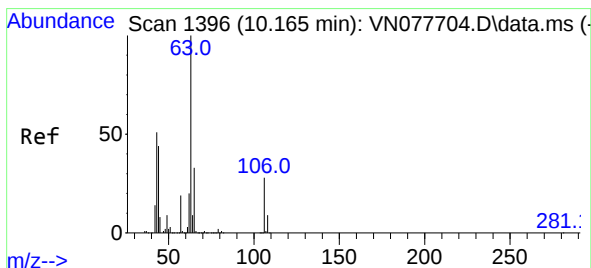
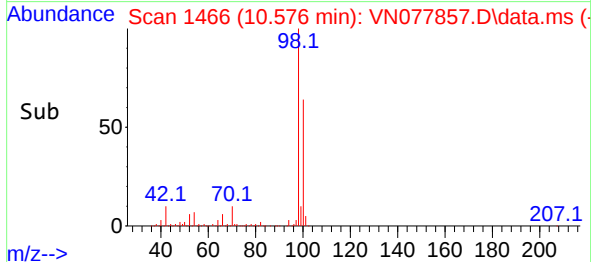
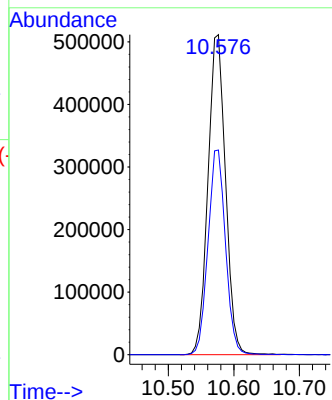
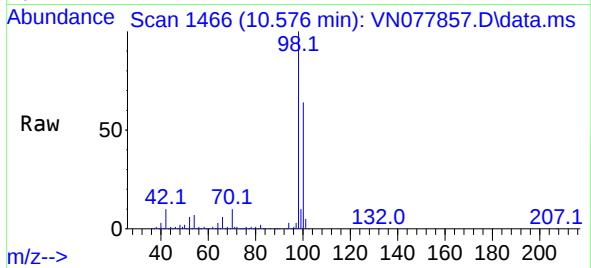




#50
Toluene-d8
Concen: 49.785 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

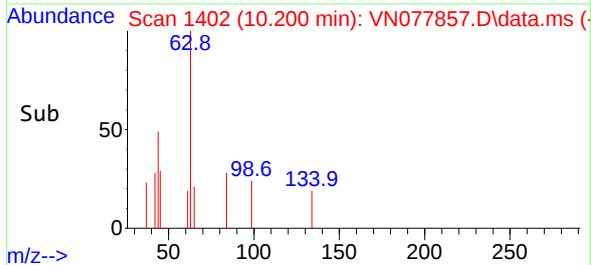
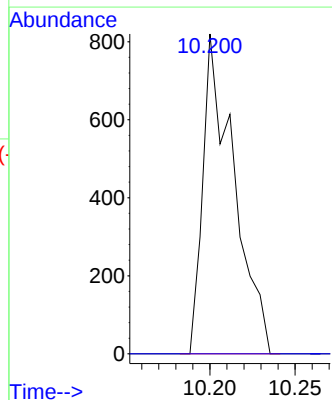
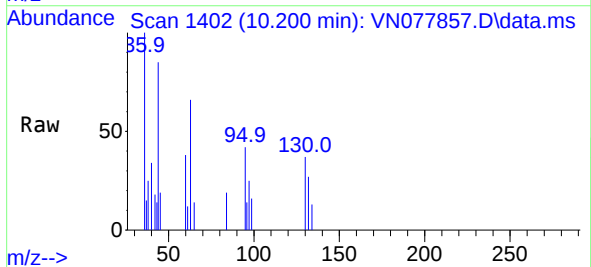
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

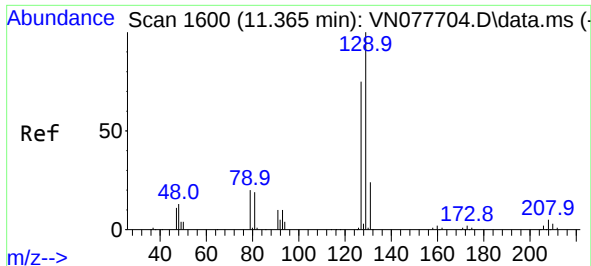
Tgt Ion: 98 Resp: 952813
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#58
2-Chloroethyl Vinyl ether
Concen: 0.261 ug/l
RT: 10.200 min Scan# 1402
Delta R.T. 0.035 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 63 Resp: 1031
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#

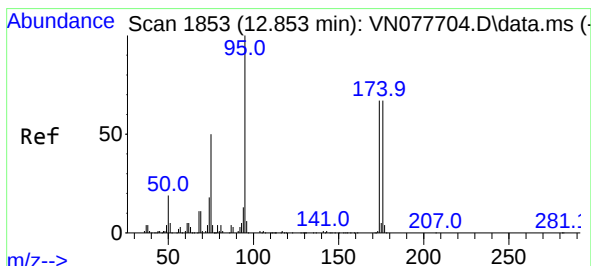
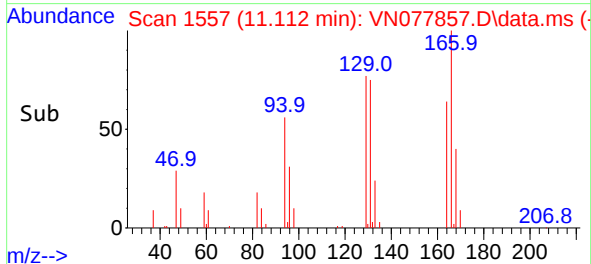
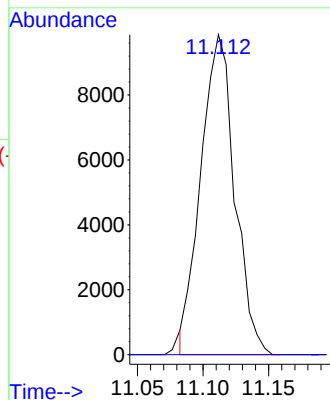
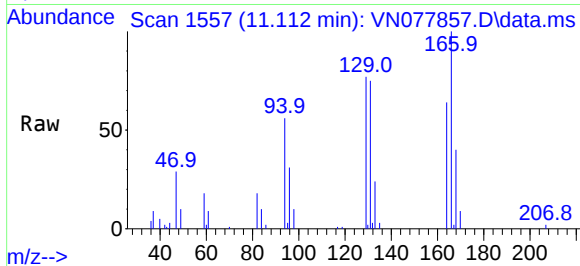




#60
Dibromochloromethane
Concen: 3.231 ug/l
RT: 11.112 min Scan# 1111
Delta R.T. -0.253 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

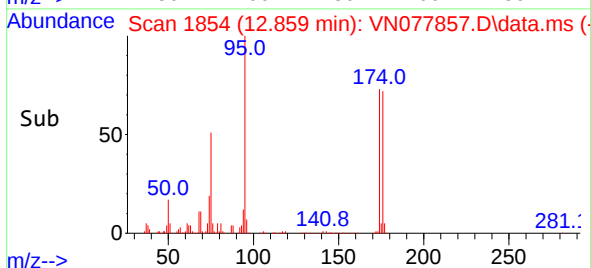
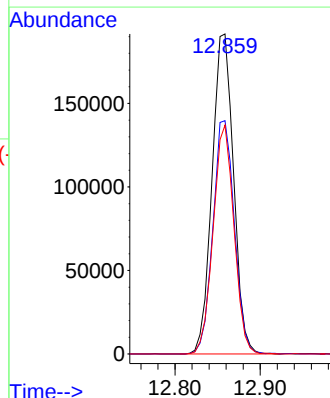
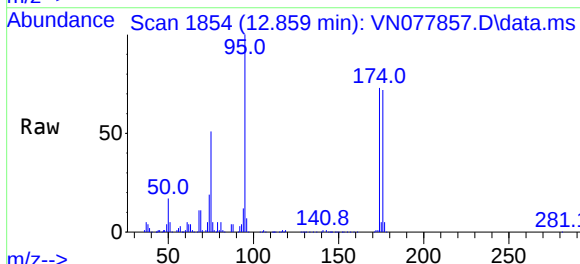
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

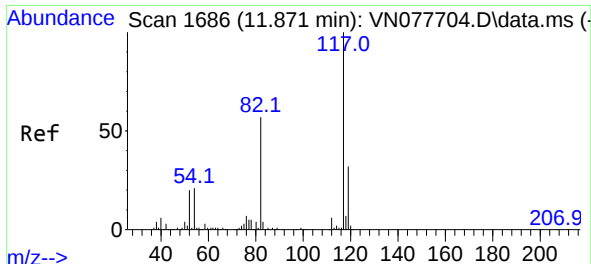
Tgt Ion:129 Resp: 17697
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 49.620 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion: 95 Resp: 335401
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 69.3 0.0 135.8

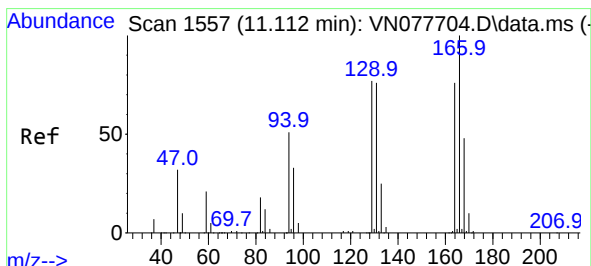
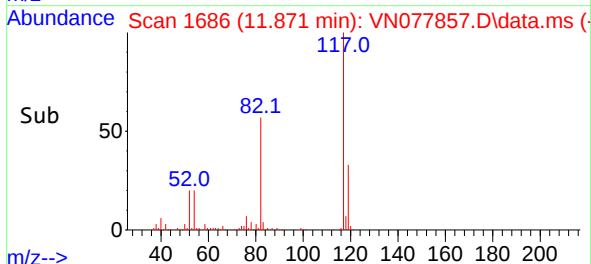
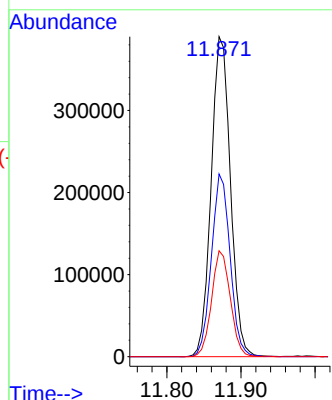
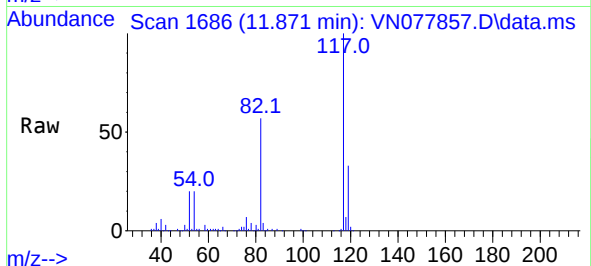




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.001 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

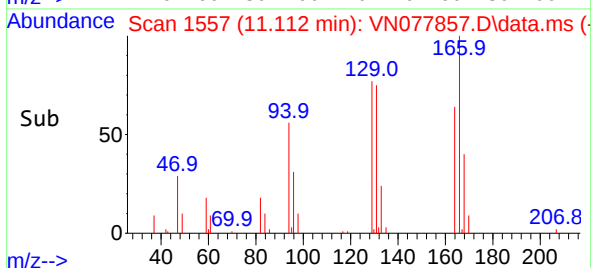
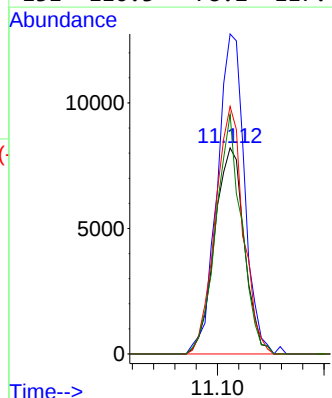
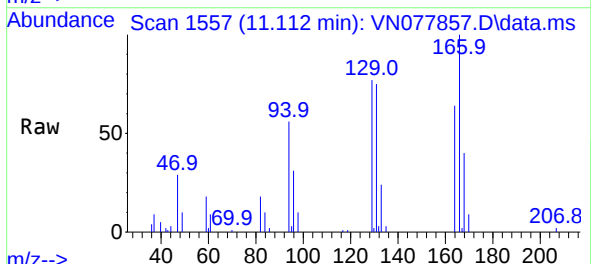
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

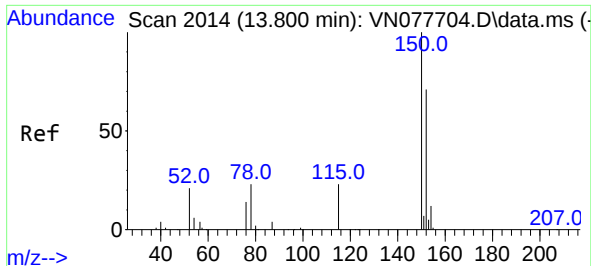
Tgt Ion:117 Resp: 704745
Ion Ratio Lower Upper
117 100
82 57.1 44.0 66.0
119 33.1 25.6 38.4



#64
Tetrachloroethene
Concen: 3.212 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

Tgt Ion:164 Resp: 15831
Ion Ratio Lower Upper
164 100
166 155.3 101.4 152.0#
129 120.1 82.4 123.6
131 116.3 78.2 117.4

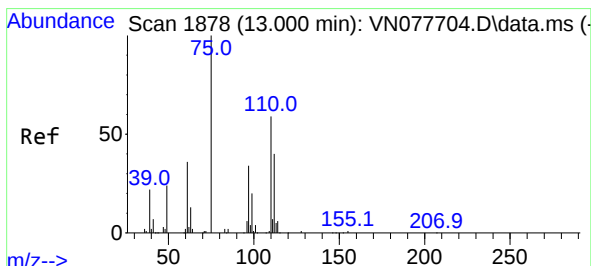
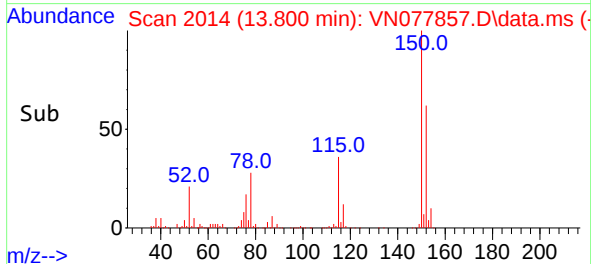
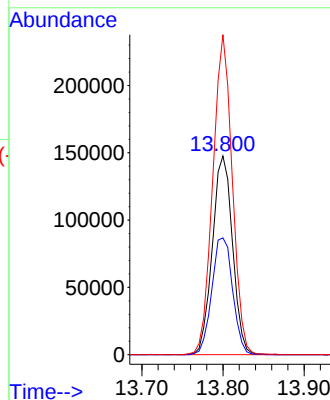
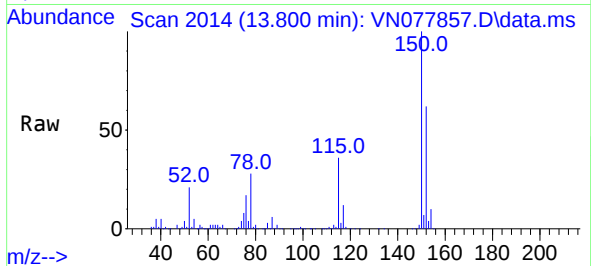




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

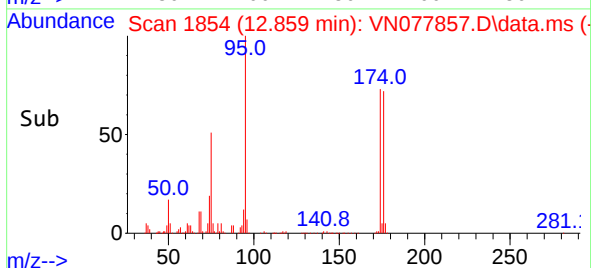
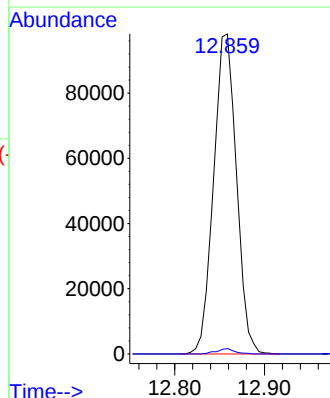
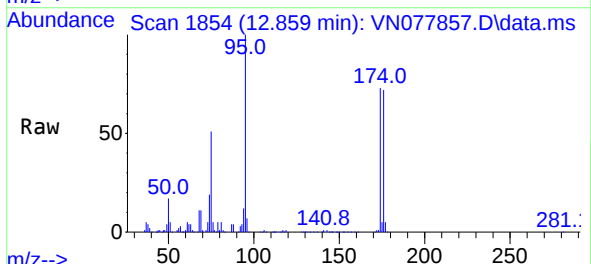
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20230522

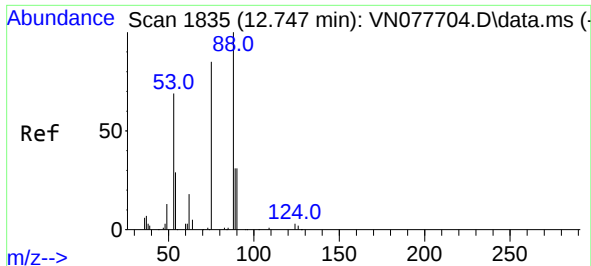
Tgt Ion:152 Resp: 255161
Ion Ratio Lower Upper
152 100
115 60.8 32.3 96.8
150 155.4 0.0 355.8



#76
1,2,3-Trichloropropane
Concen: 27.170 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077857.D
Acq: 24 May 2023 17:07

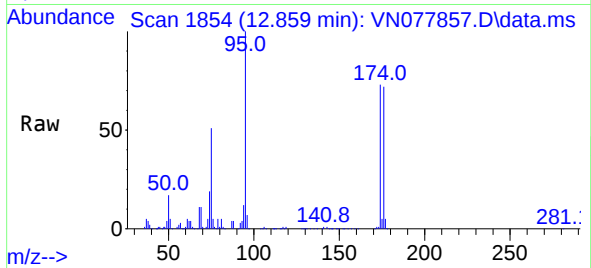
Tgt Ion: 75 Resp: 173619
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.849 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077857.D
 Acq: 24 May 2023 17:07

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20230522



Tgt Ion: 75 Resp: 173619
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

