

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086384.D
 Acq On : 23 Apr 2025 16:00
 Operator : JC\MD
 Sample : VN0423WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBL01

Quant Time: Apr 24 05:01:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

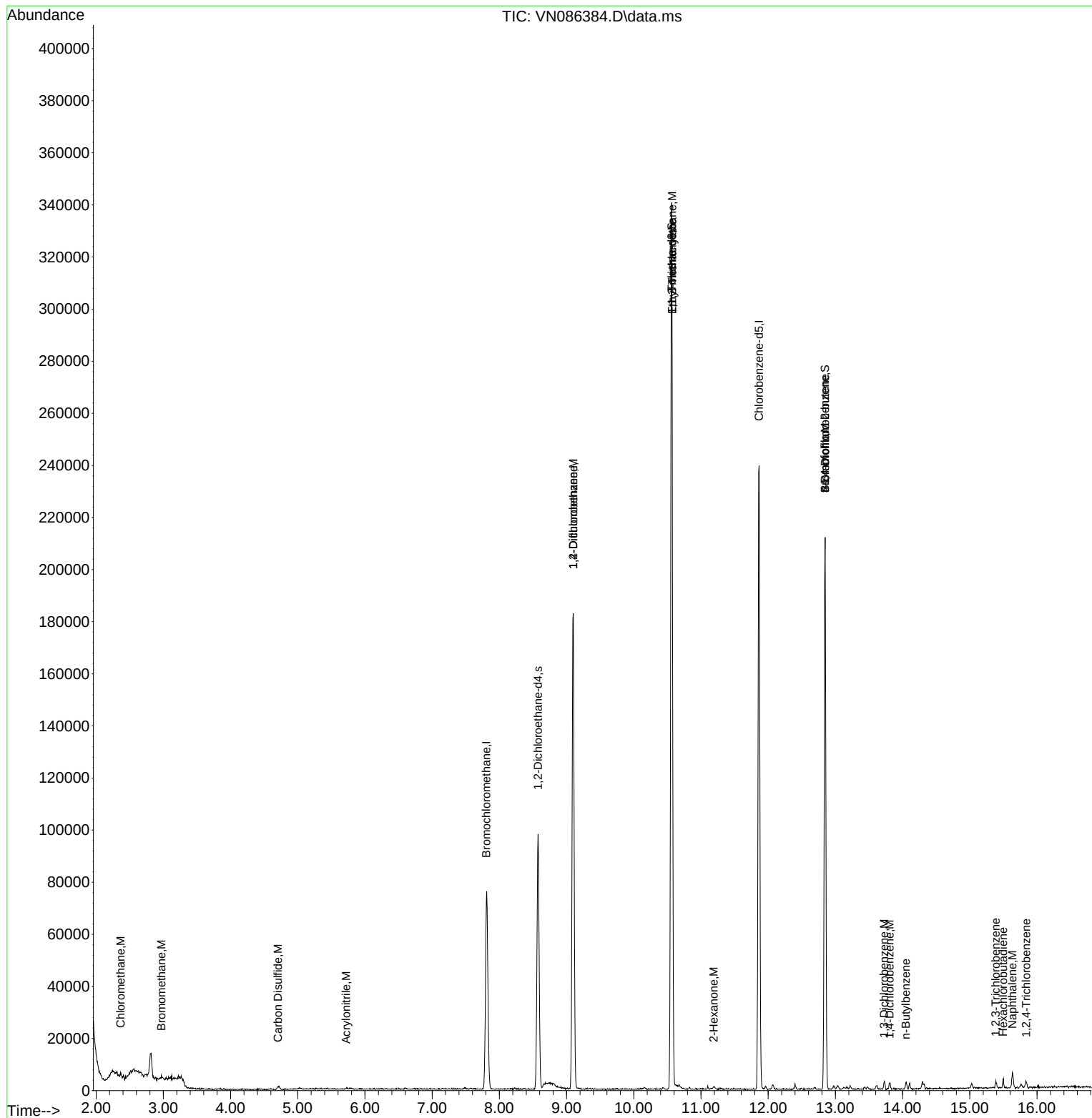
Internal Standards						
1) Bromochloromethane	7.806	128	27527	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164046	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143908	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80895	30.481	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.600%	
60) 4-Bromofluorobenzene	12.847	95	78601	27.790	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 92.633%	
63) Toluene-d8	10.565	98	242215	30.594	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.967%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1240	0.459	ug/l #	87
5) Bromomethane	2.971	94	508	0.376	ug/l #	65
14) Acrylonitrile	5.718	53	260	0.257	ug/l #	55
16) Carbon Disulfide	4.706	76	1478	0.292	ug/l #	75
36) 1,2-Dichloroethane	9.100	62	5544	1.856	ug/l #	74
50) 1,1,2-Trichloroethane	10.571	97	7172	3.379	ug/l #	1
51) Ethyl methacrylate	10.571	69	760	0.206	ug/l	84
56) Bromoform	12.847	173	450	0.291	ug/l #	1
59) 2-Hexanone	11.188	43	1087	0.530	ug/l #	52
77) t-1,4-Dichloro-2-butene	12.847	75	39870	34.035	ug/l #	13
83) 1,3-Dichlorobenzene	13.723	146	1067	0.244	ug/l	77
84) 1,4-Dichlorobenzene	13.806	146	1259	0.292	ug/l	89
85) n-Butylbenzene	14.047	91	2032	0.270	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	1364	0.720	ug/l #	18
90) Hexachlorobutadiene	15.494	225	691	0.905	ug/l	82
91) Naphthalene	15.635	128	6397	0.943	ug/l	97
92) 1,2,3-Trichlorobenzene	15.388	180	1026	0.541	ug/l	88

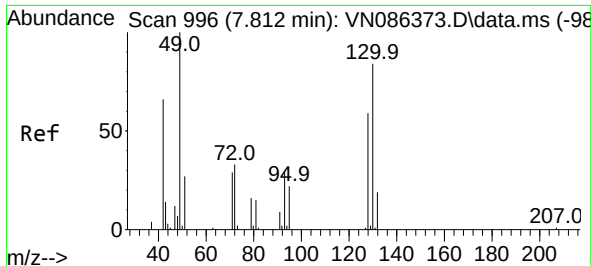
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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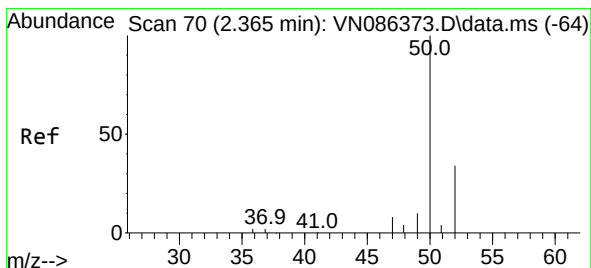
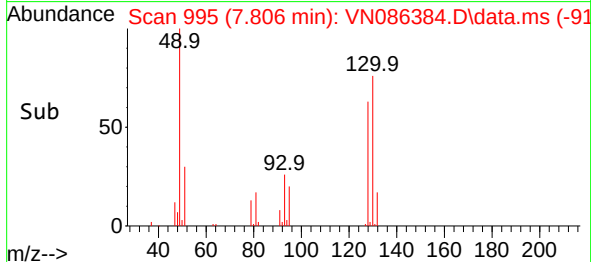
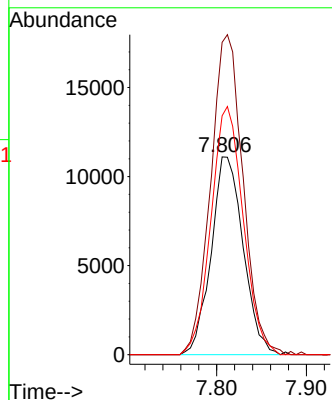
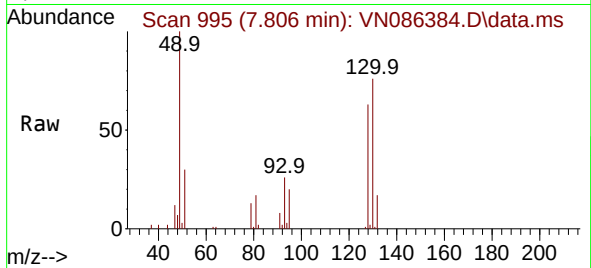




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

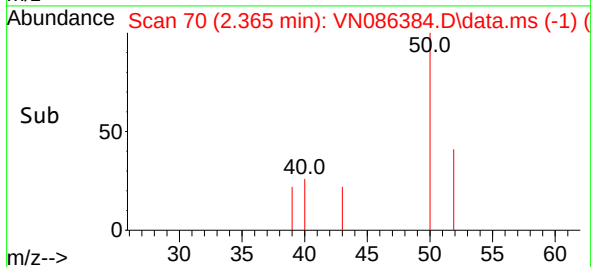
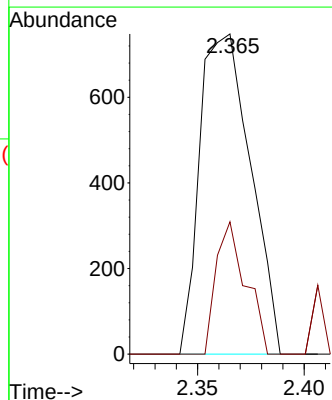
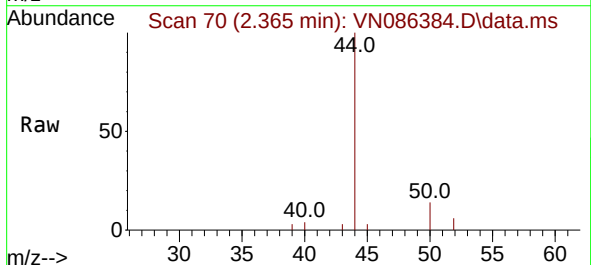
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

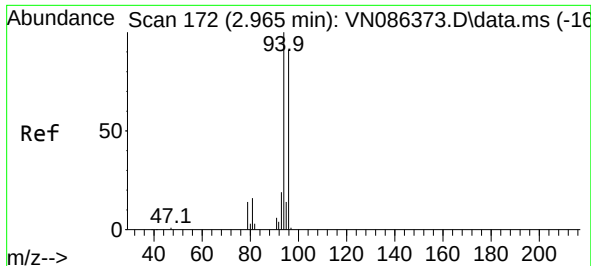
Tgt Ion:128 Resp: 27527
Ion Ratio Lower Upper
128 100
49 163.6 0.0 433.8
130 126.3 0.0 325.0



#3
Chloromethane
Concen: 0.459 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 50 Resp: 1240
Ion Ratio Lower Upper
50 100
52 41.3 27.3 40.9#

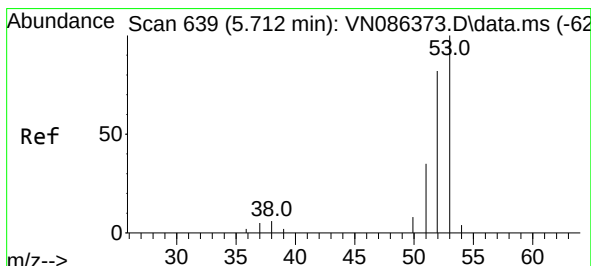
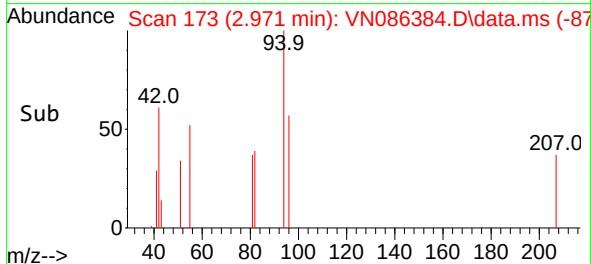
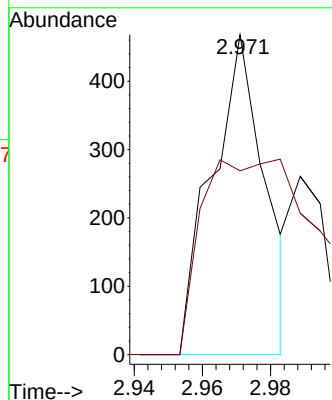
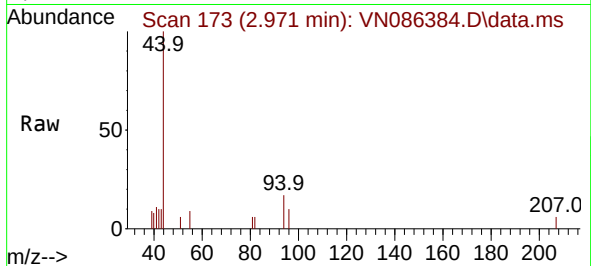




#5
Bromomethane
Concen: 0.376 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

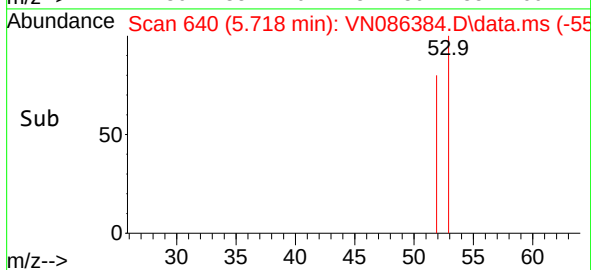
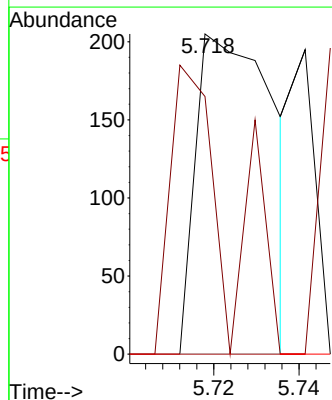
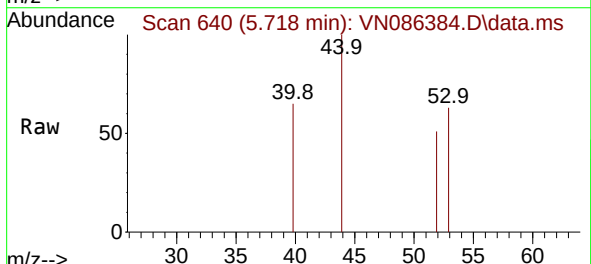
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

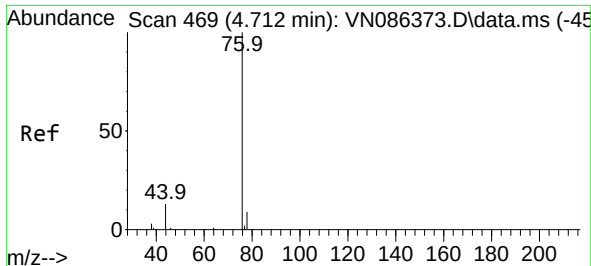
Tgt Ion: 94 Resp: 508
Ion Ratio Lower Upper
94 100
96 57.5 72.4 108.6#



#14
Acrylonitrile
Concen: 0.257 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 53 Resp: 260
Ion Ratio Lower Upper
53 100
52 47.7 41.2 123.6
51 0.0 17.6 52.8#

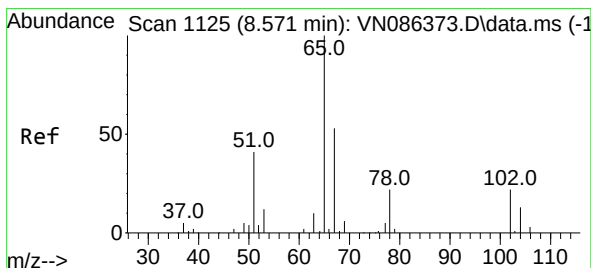
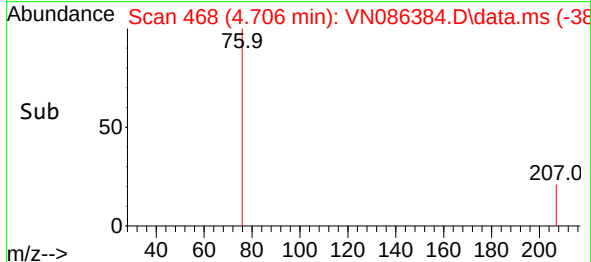
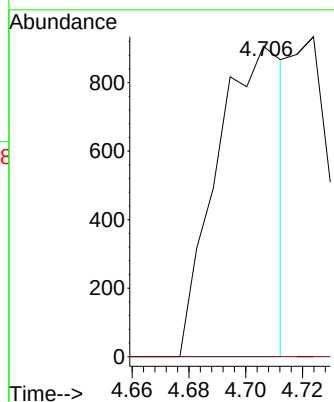
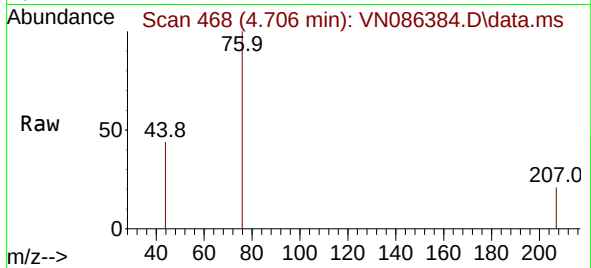




#16
Carbon Disulfide
Concen: 0.292 ug/l
RT: 4.706 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

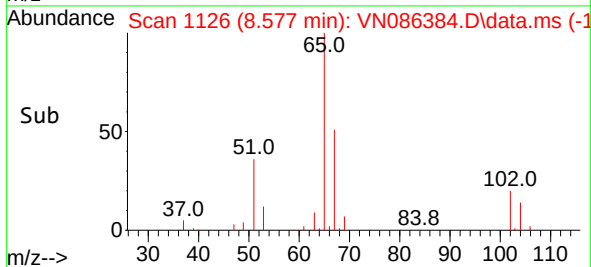
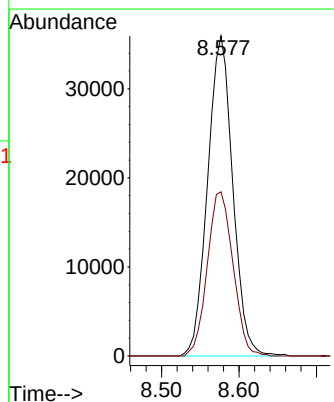
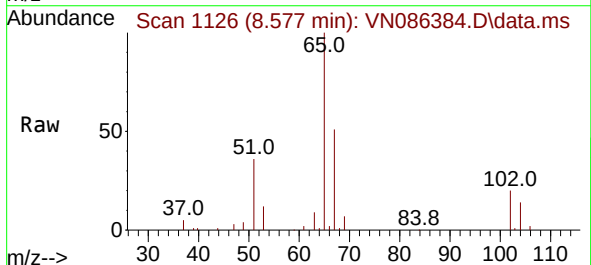
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

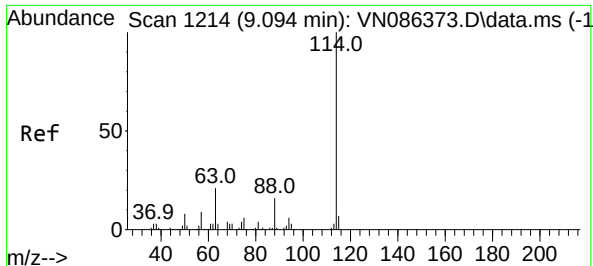
Tgt Ion: 76 Resp: 1478
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#27
1,2-Dichloroethane-d4
Concen: 30.481 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 65 Resp: 80895
Ion Ratio Lower Upper
65 100
67 52.5 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN086384.D

Acq: 23 Apr 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBL01

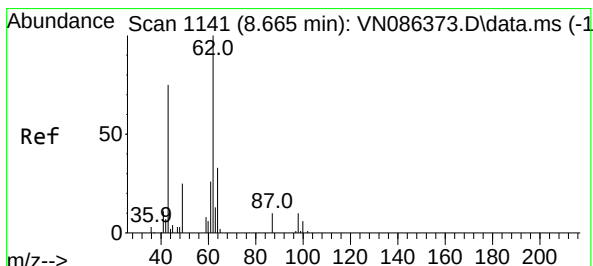
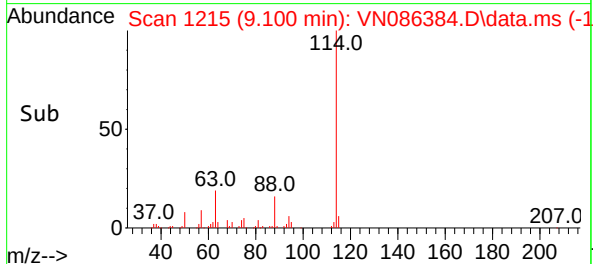
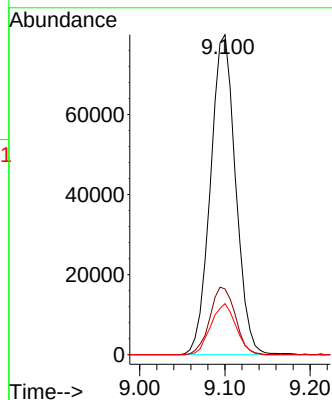
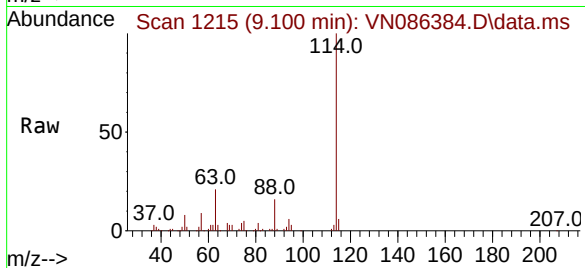
Tgt Ion:114 Resp: 164046

Ion Ratio Lower Upper

114 100

63 21.3 16.7 25.1

88 16.0 12.6 19.0



#36

1,2-Dichloroethane

Concen: 1.856 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.435 min

Lab File: VN086384.D

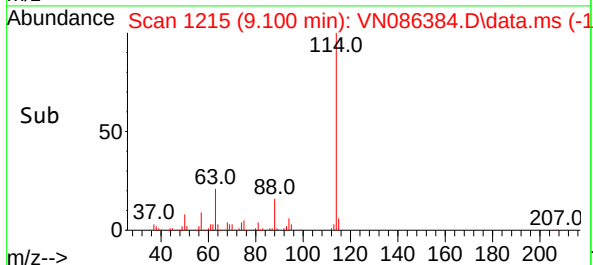
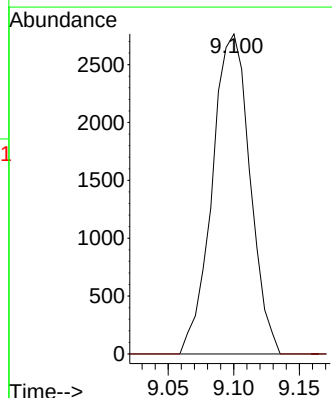
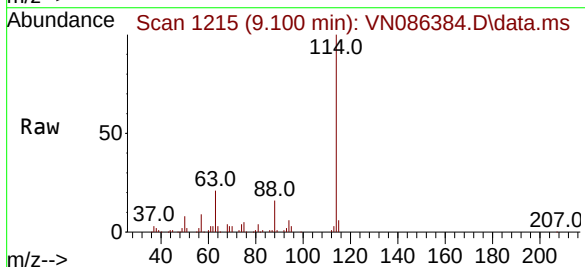
Acq: 23 Apr 2025 16:00

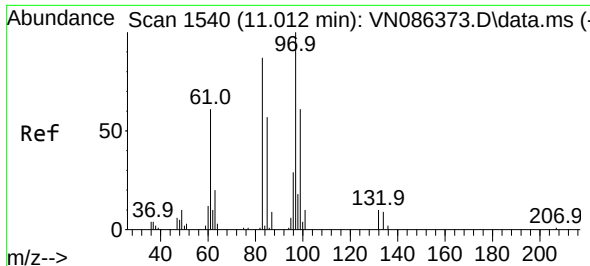
Tgt Ion: 62 Resp: 5544

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#

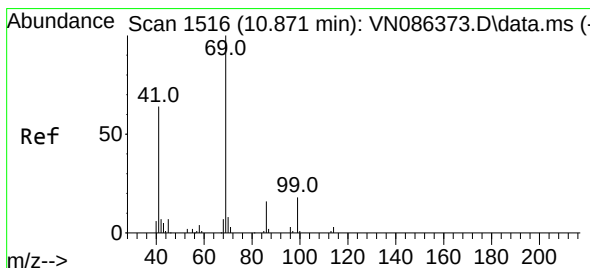
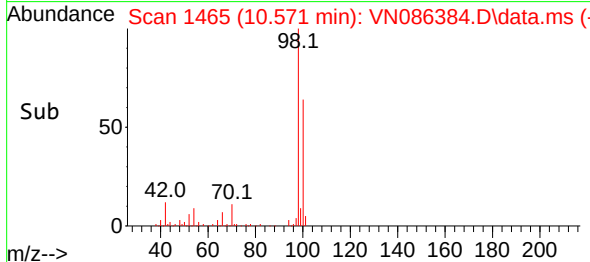
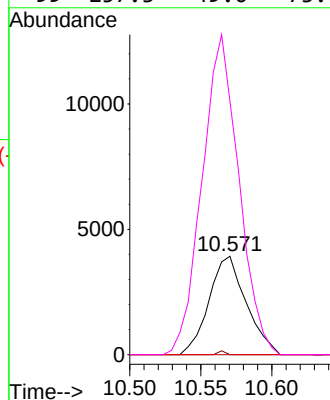
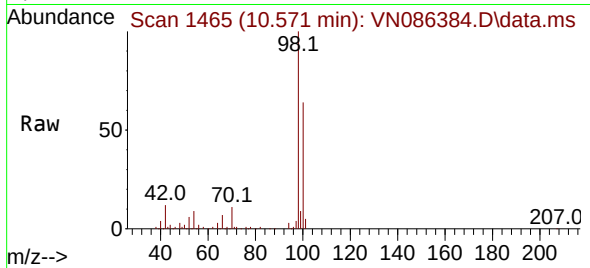




#50
1,1,2-Trichloroethane
Concen: 3.379 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

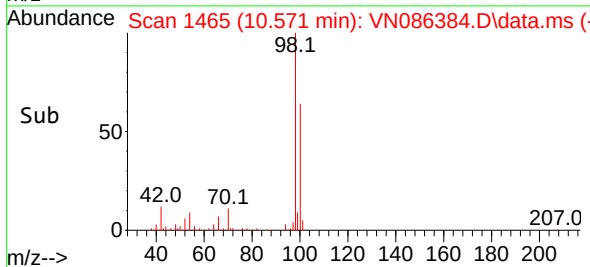
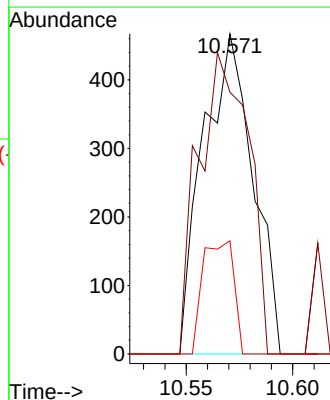
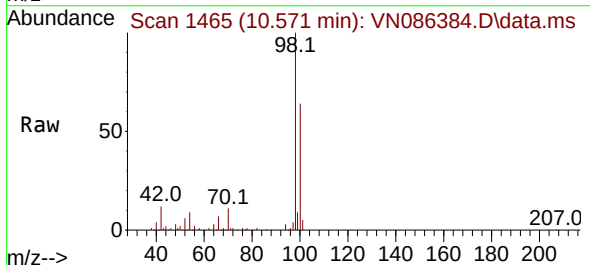
Instrument :
MSVOA_N
ClientSampleId :
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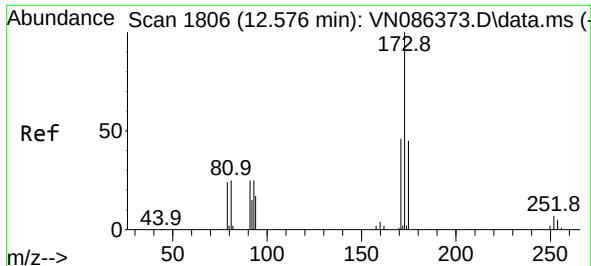
Tgt Ion: 97	Resp:	7172
Ion	Ratio	Lower Upper
97	100	
83	0.0	69.3 103.9#
85	0.0	45.5 68.3#
99	257.3	49.0 73.6#



#51
Ethyl methacrylate
Concen: 0.206 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.300 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 69	Resp:	760
Ion	Ratio	Lower Upper
69	100	
41	81.8	32.3 96.8
39	35.3	19.1 57.1

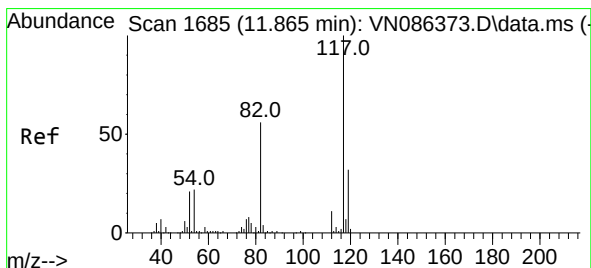
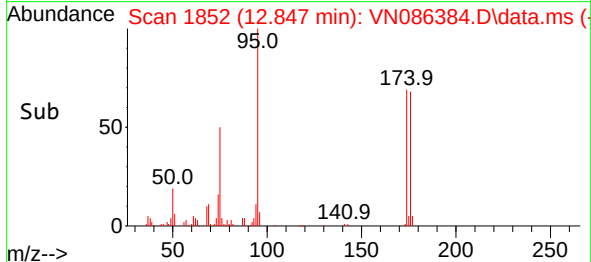
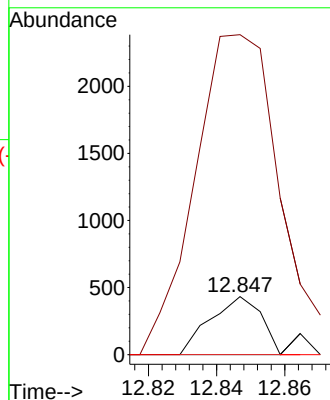
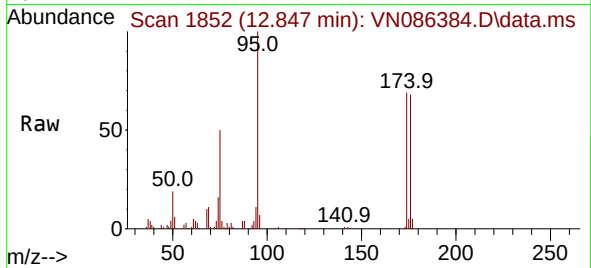




#56
Bromoform
Concen: 0.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

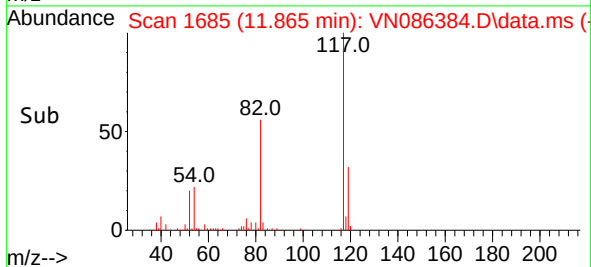
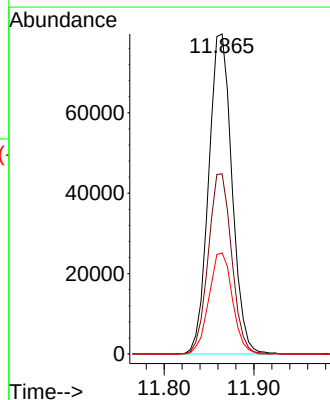
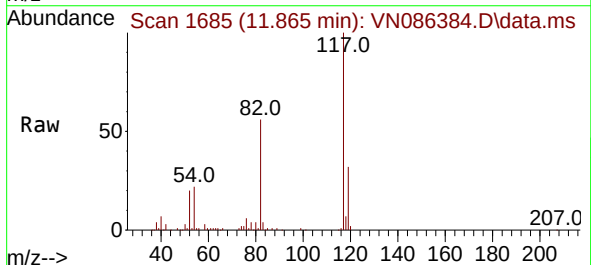
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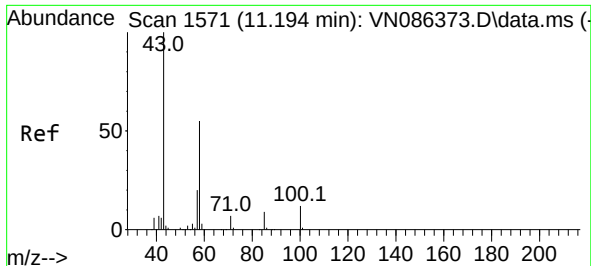
Tgt Ion:173 Resp: 450
Ion Ratio Lower Upper
173 100
175 907.8 39.0 58.6#
254 0.0 3.8 5.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion:117 Resp: 143908
Ion Ratio Lower Upper
117 100
82 56.4 45.5 68.3
119 31.9 25.9 38.9

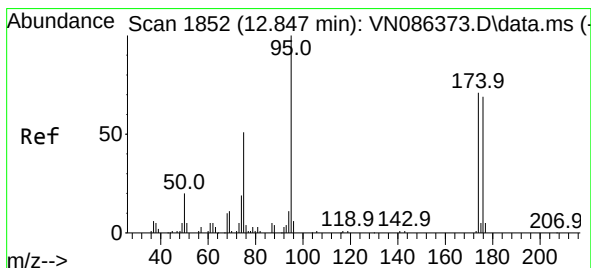
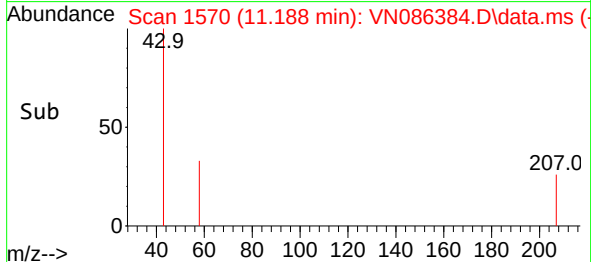
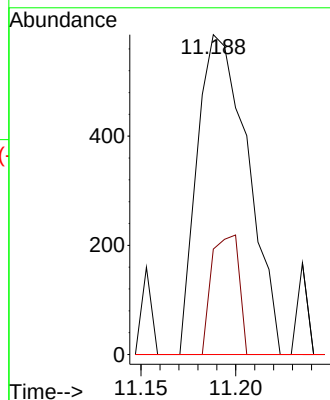
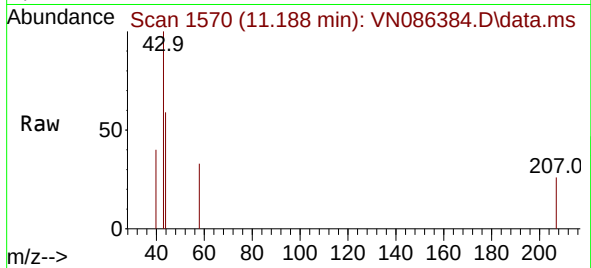




#59
2-Hexanone
Concen: 0.530 ug/l
RT: 11.188 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

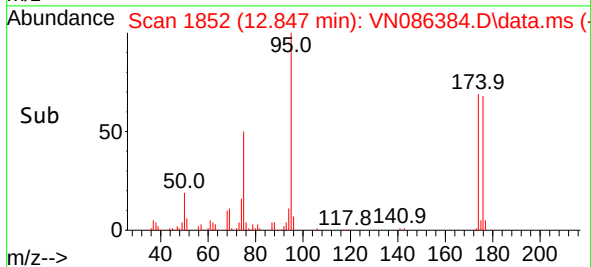
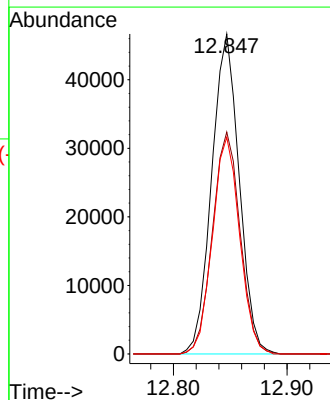
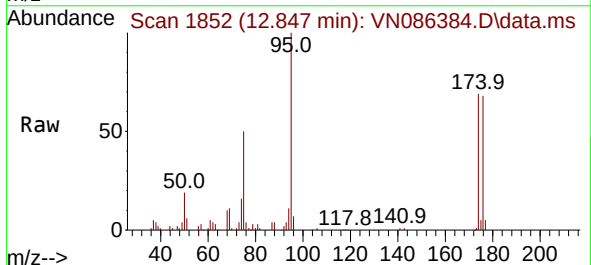
Instrument :
MSVOA_N
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VN0423WBL01

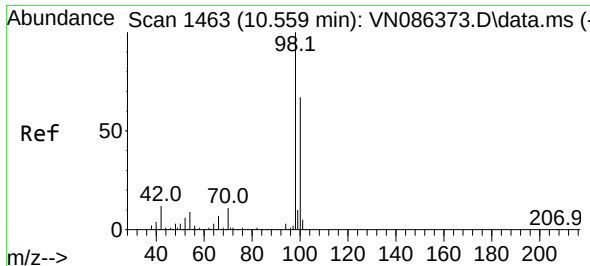
Tgt Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
58 20.2 45.0 67.6#
57 0.0 15.5 23.3#



#60
4-Bromofluorobenzene
Concen: 27.790 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 95 Resp: 78601
Ion Ratio Lower Upper
95 100
174 69.7 56.6 84.8
176 67.0 53.3 79.9

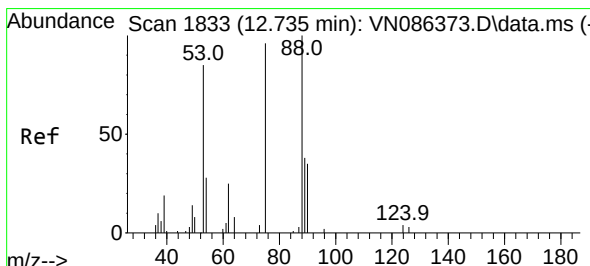
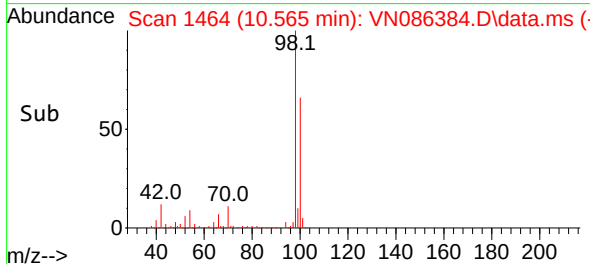
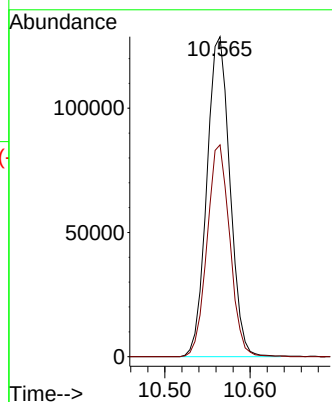
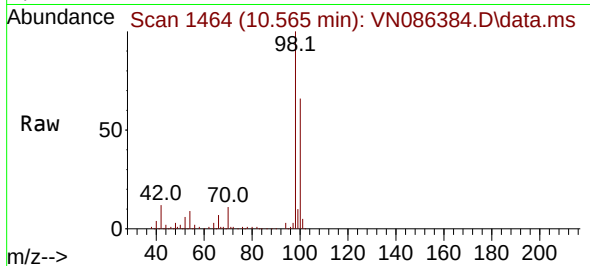




#63
Toluene-d8
Concen: 30.594 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

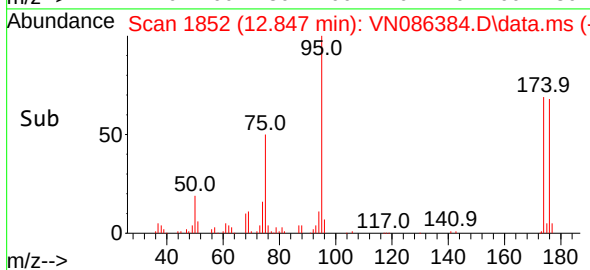
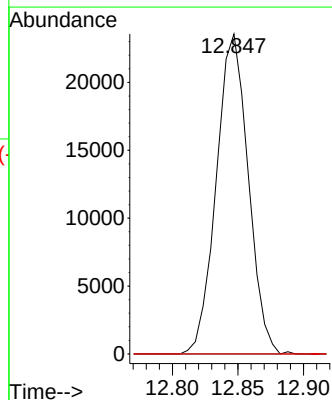
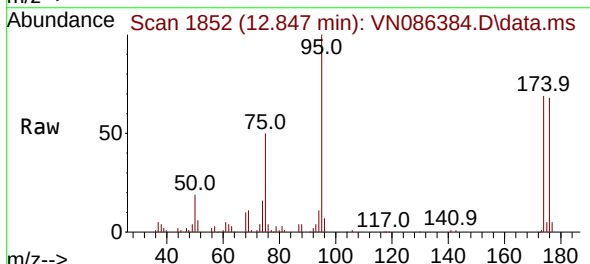
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

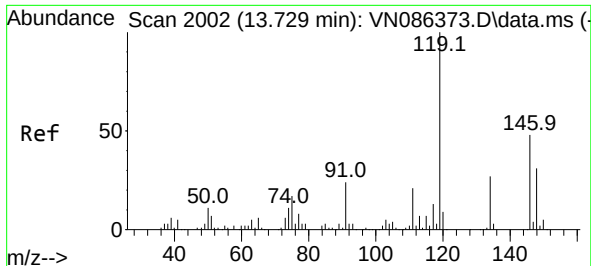
Tgt Ion: 98 Resp: 242215
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7



#77
t-1,4-Dichloro-2-butene
Concen: 34.035 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 75 Resp: 39870
Ion Ratio Lower Upper
75 100
53 0.0 46.0 138.0#
89 0.0 21.6 64.6#

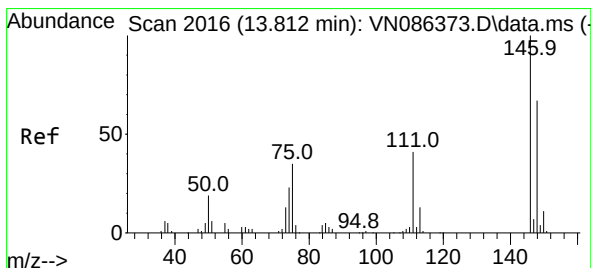
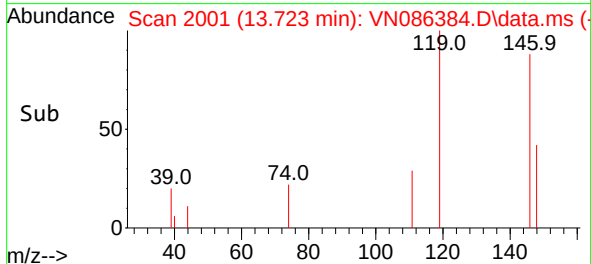
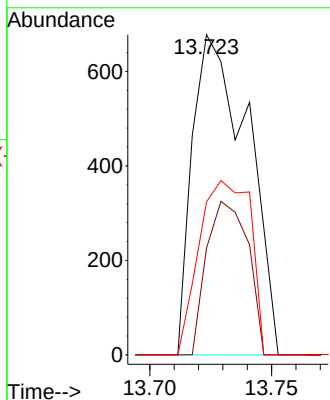
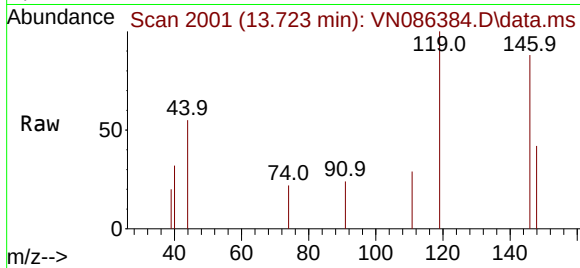




#83
1,3-Dichlorobenzene
Concen: 0.244 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

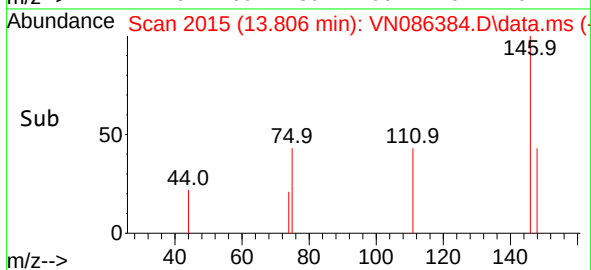
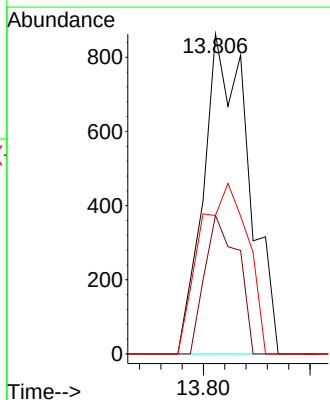
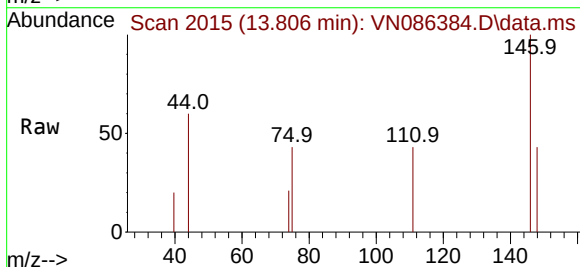
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

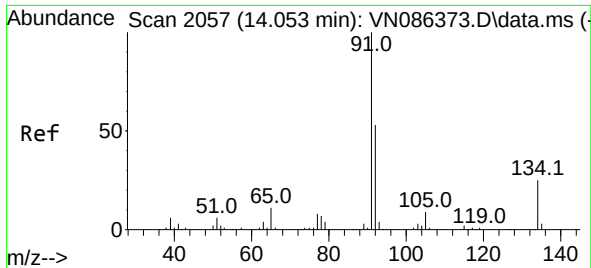
Tgt Ion:146 Resp: 1067
Ion Ratio Lower Upper
146 100
111 35.9 20.7 62.1
148 39.2 32.3 96.8



#84
1,4-Dichlorobenzene
Concen: 0.292 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion:146 Resp: 1259
Ion Ratio Lower Upper
146 100
111 32.0 20.3 60.8
148 56.9 32.4 97.2

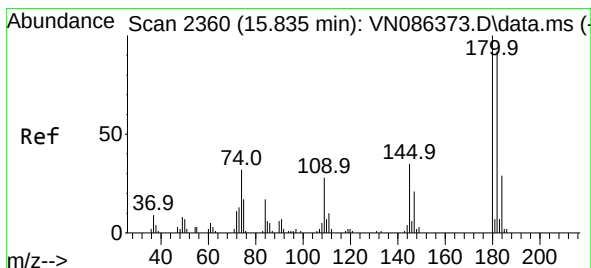
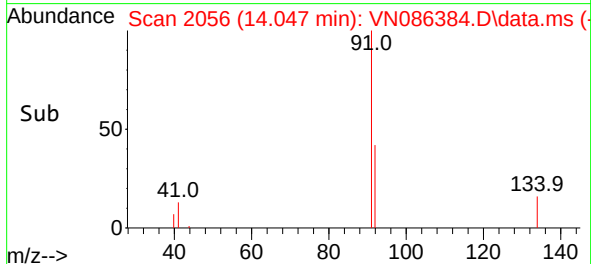
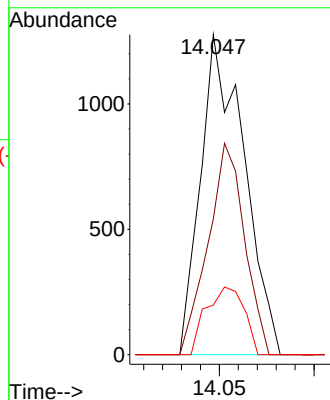
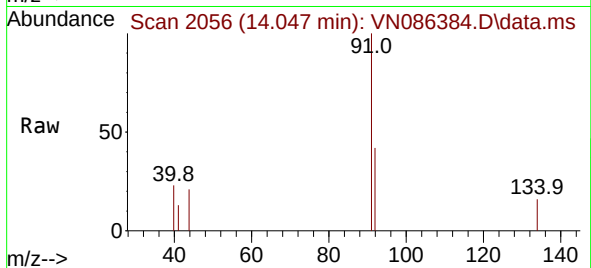




#85
n-Butylbenzene
Concen: 0.270 ug/l
RT: 14.047 min Scan# 2056
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

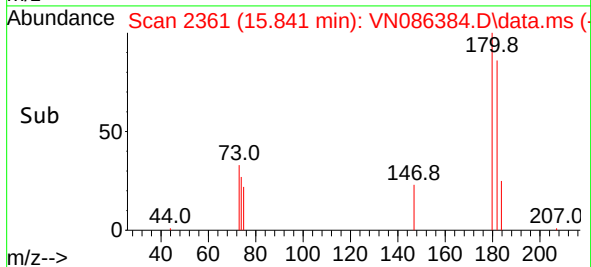
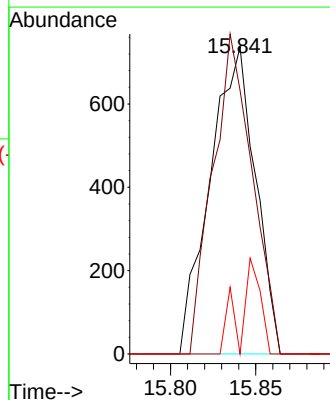
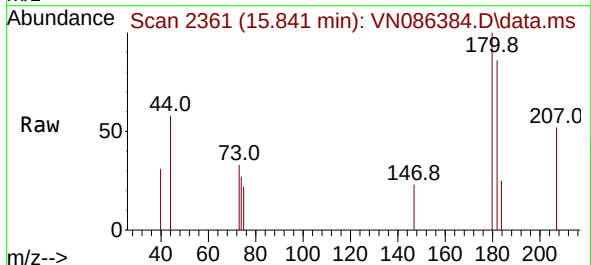
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

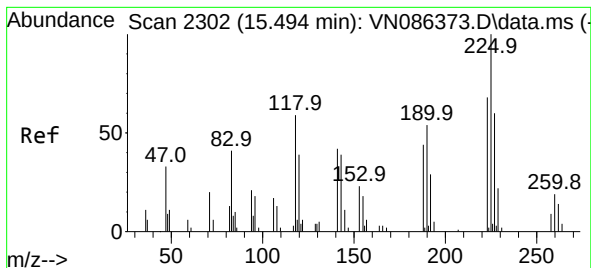
Tgt Ion: 91 Resp: 2032
Ion Ratio Lower Upper
91 100
92 55.5 0.0 107.2
134 18.5 0.0 48.2



#89
1,2,4-Trichlorobenzene
Concen: 0.720 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion:180 Resp: 1364
Ion Ratio Lower Upper
180 100
182 0.0 74.8 112.2#
145 9.9 26.9 40.3#





#90

Hexachlorobutadiene

Concen: 0.905 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.000 min

Lab File: VN086384.D

Acq: 23 Apr 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBL01

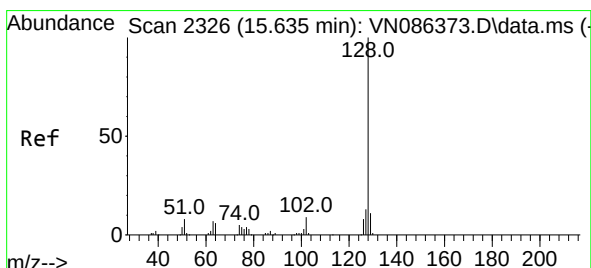
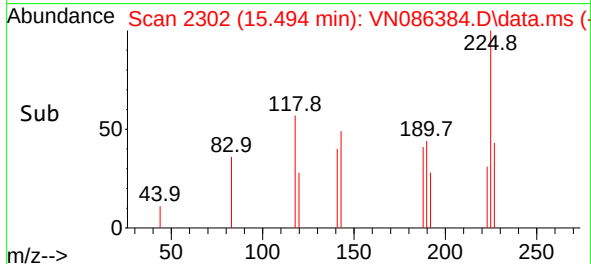
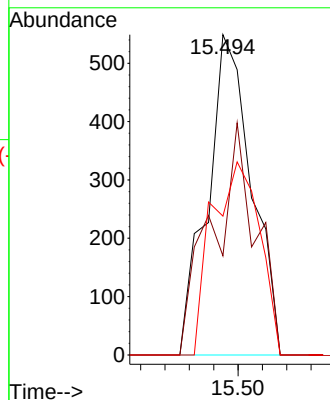
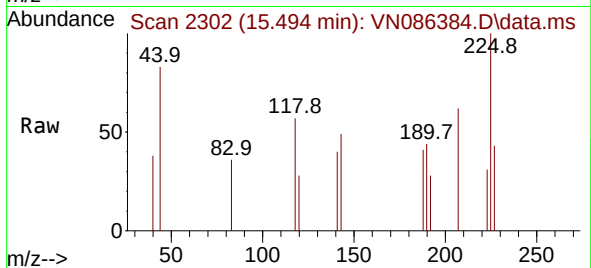
Tgt Ion:225 Resp: 691

Ion Ratio Lower Upper

225 100

223 41.4 0.0 128.8

227 65.3 0.0 120.2



#91

Naphthalene

Concen: 0.943 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086384.D

Acq: 23 Apr 2025 16:00

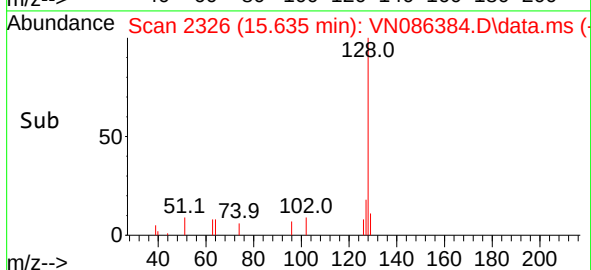
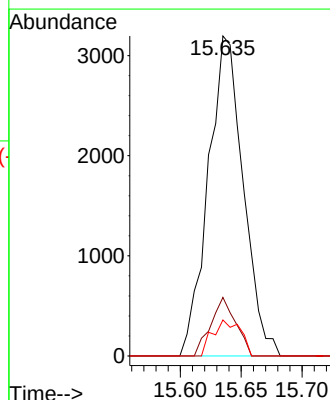
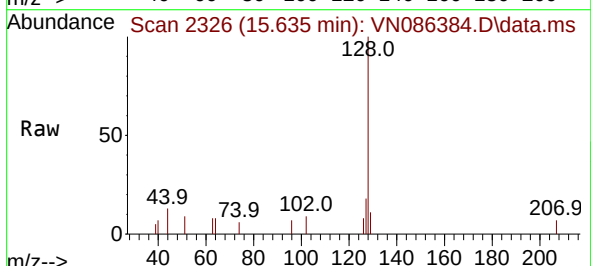
Tgt Ion:128 Resp: 6397

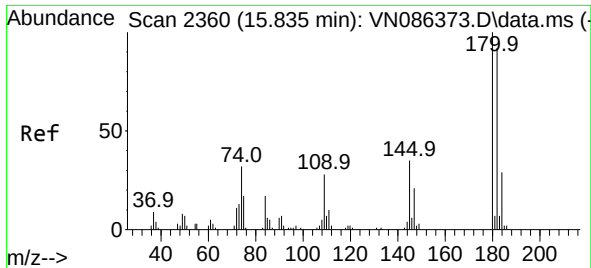
Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 8.9 8.7 13.1





#92

1,2,3-Trichlorobenzene

Concen: 0.541 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.447 min

Lab File: VN086384.D

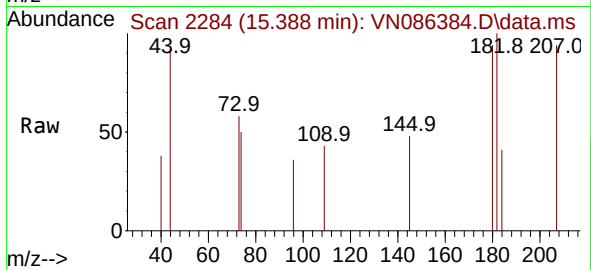
Acq: 23 Apr 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBL01



Tgt Ion:180 Resp: 1026

Ion Ratio Lower Upper

180 100

182 94.2 0.0 187.0

145 9.0 0.0 67.2

