

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086357.D
 Acq On : 21 Apr 2025 13:12
 Operator : JC\MD
 Sample : VN0421WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBL01

Quant Time: Apr 22 01:50:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

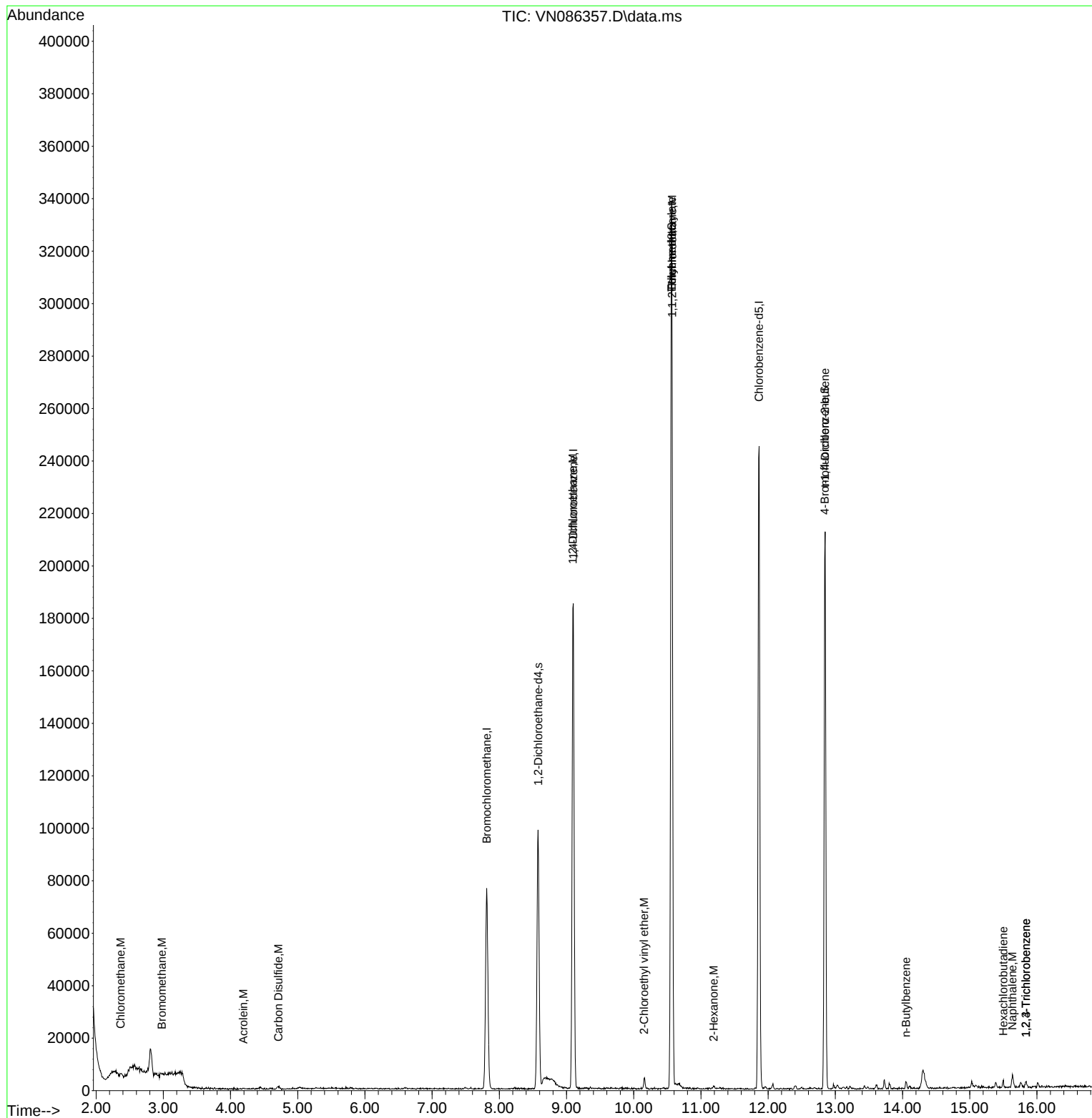
Internal Standards						
1) Bromochloromethane	7.812	128	27629	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164394	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145643	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80912	30.025	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.067%
60) 4-Bromofluorobenzene	12.841	95	78582	27.100	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.333%
63) Toluene-d8	10.565	98	240295	29.225	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.400%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1048	0.343	ug/l #	84
5) Bromomethane	2.977	94	693	0.477	ug/l #	51
13) Acrolein	4.189	56	204	0.604	ug/l	86
16) Carbon Disulfide	4.712	76	2487	0.412	ug/l #	77
36) 1,2-Dichloroethane	9.094	62	5857	1.998	ug/l #	72
50) 1,1,2-Trichloroethane	10.571	97	7197	3.408	ug/l #	1
51) Ethyl methacrylate	10.565	69	838	0.214	ug/l	77
55) 2-Chloroethyl vinyl ether	10.153	63	1762	1.188	ug/l	91
59) 2-Hexanone	11.188	43	1098	0.446	ug/l #	67
77) t-1,4-Dichloro-2-butene	12.847	75	40866	30.619	ug/l #	12
85) n-Butylbenzene	14.053	91	2116	0.290	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	1198	0.620	ug/l #	61
90) Hexachlorobutadiene	15.500	225	710	0.851	ug/l	94
91) Naphthalene	15.635	128	5334	0.700	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	1198	0.620	ug/l	61

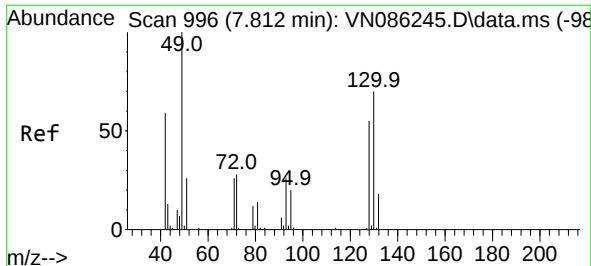
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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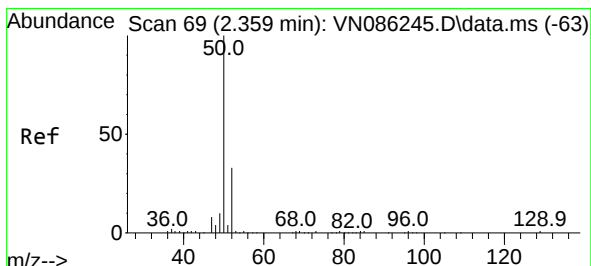
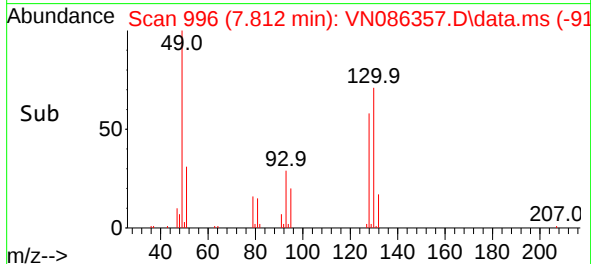
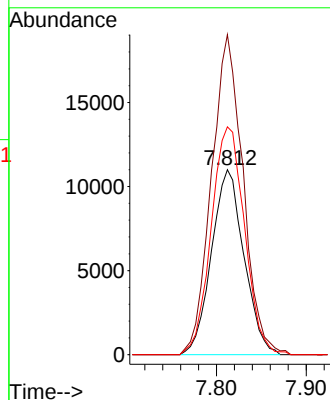
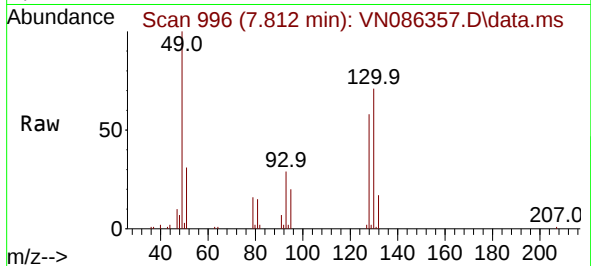




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

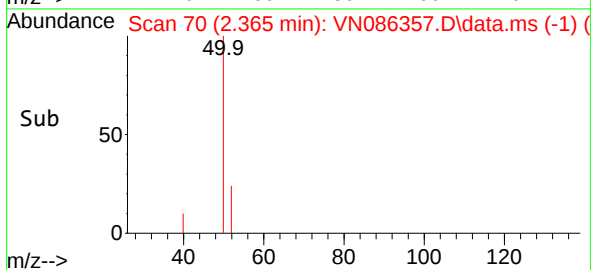
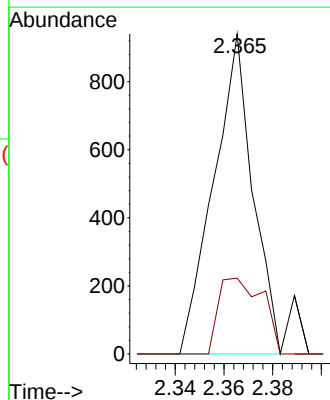
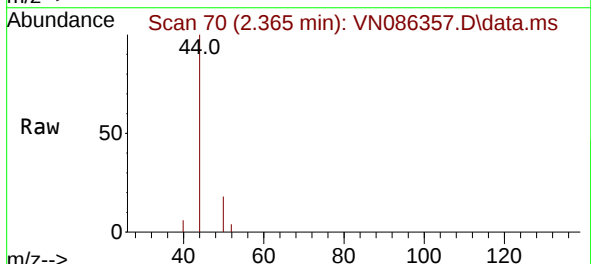
Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

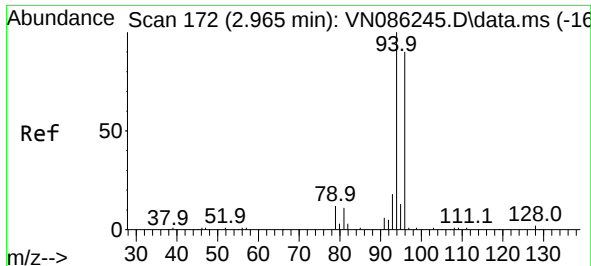
Tgt Ion:128 Resp: 27629
Ion Ratio Lower Upper
128 100
49 167.9 0.0 452.5
130 126.5 0.0 315.0



#3
Chloromethane
Concen: 0.343 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion: 50 Resp: 1048
Ion Ratio Lower Upper
50 100
52 23.7 26.4 39.6#

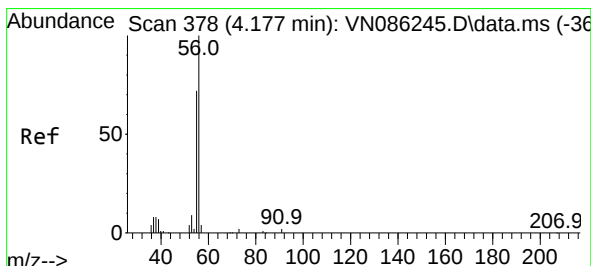
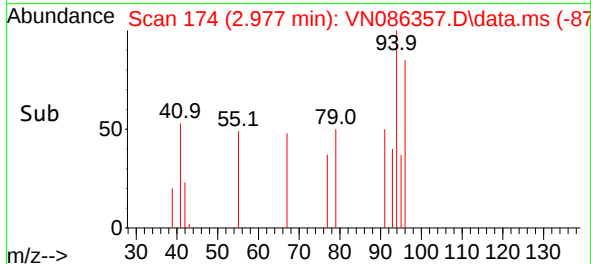
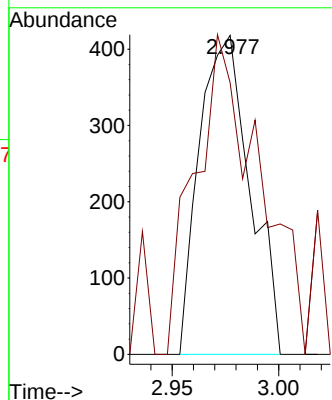
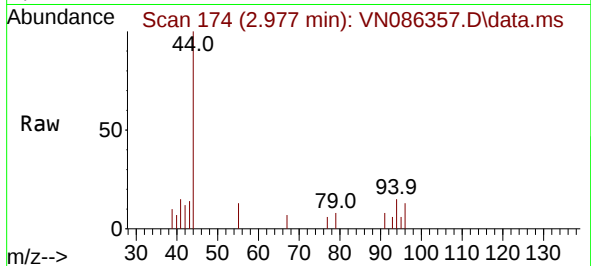




#5
Bromomethane
Concen: 0.477 ug/l
RT: 2.977 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

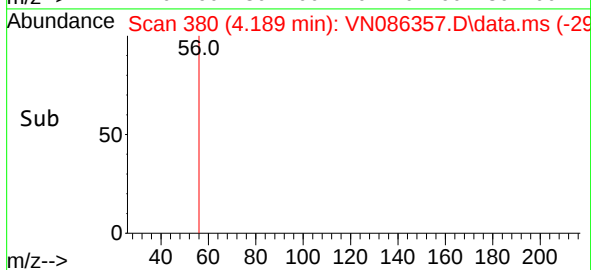
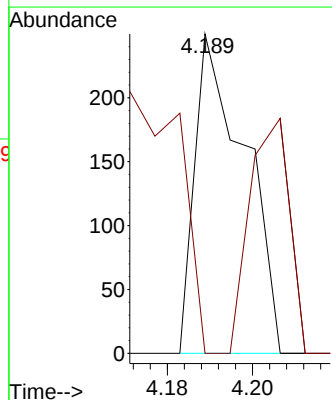
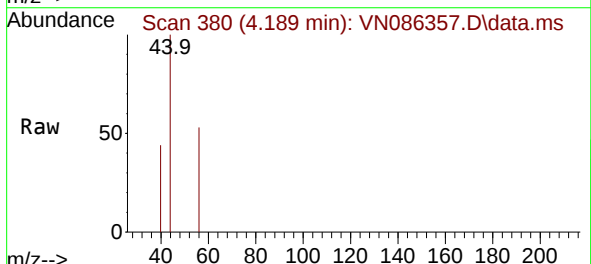
Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

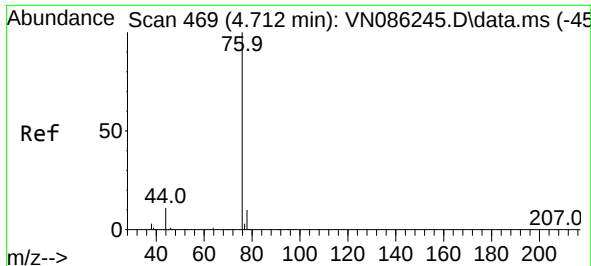
Tgt Ion: 94 Resp: 693
Ion Ratio Lower Upper
94 100
96 44.3 72.2 108.2#



#13
Acrolein
Concen: 0.604 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion: 56 Resp: 204
Ion Ratio Lower Upper
56 100
55 58.8 56.5 84.7

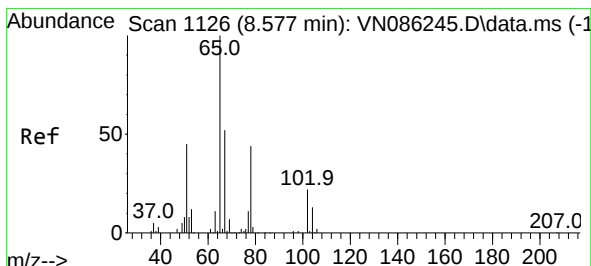
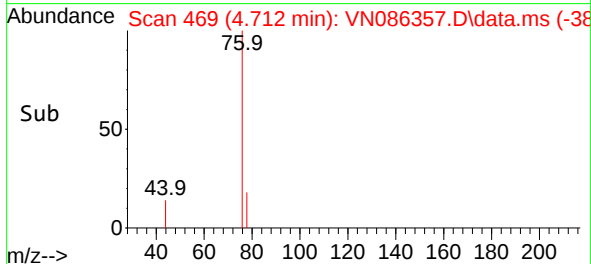
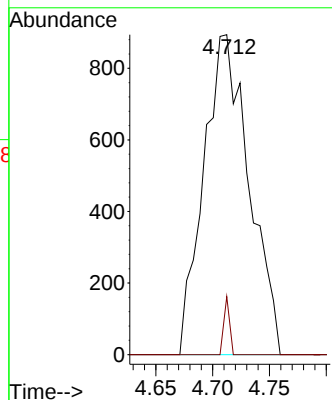
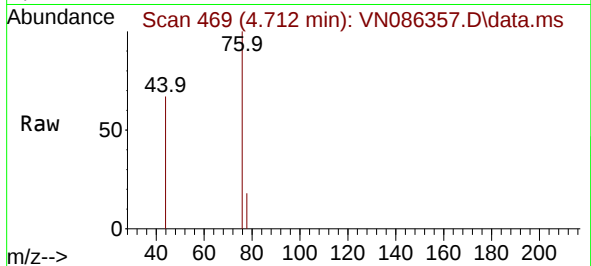




#16
Carbon Disulfide
Concen: 0.412 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

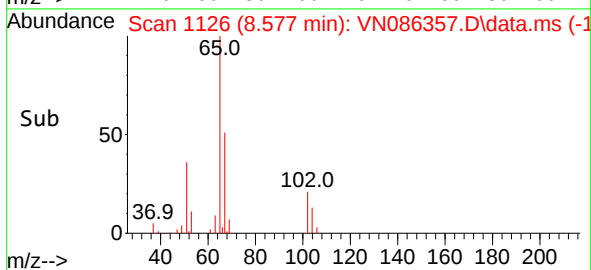
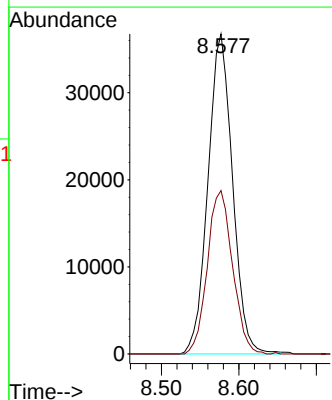
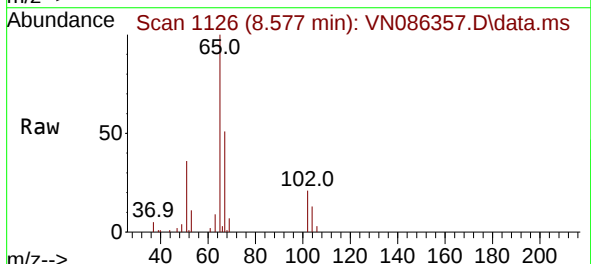
Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

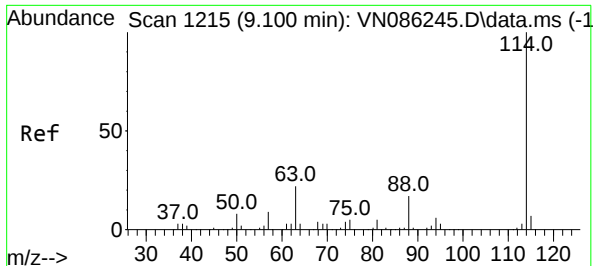
Tgt Ion: 76 Resp: 2487
Ion Ratio Lower Upper
76 100
78 18.1 7.7 11.5#



#27
1,2-Dichloroethane-d4
Concen: 30.025 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion: 65 Resp: 80912
Ion Ratio Lower Upper
65 100
67 52.3 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086357.D

Acq: 21 Apr 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

VN0421WBL01

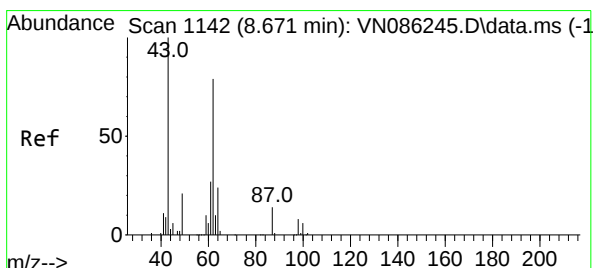
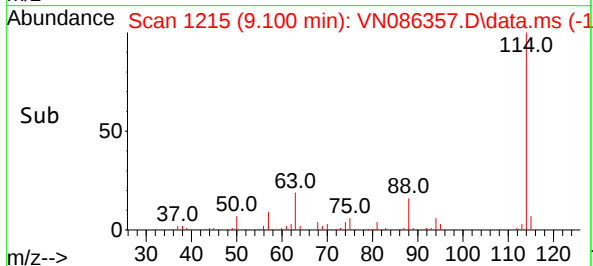
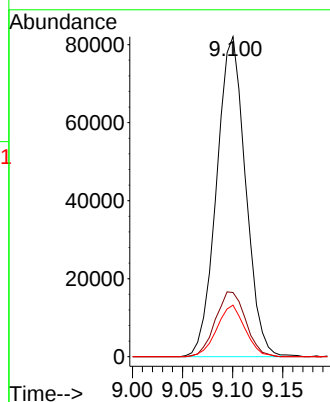
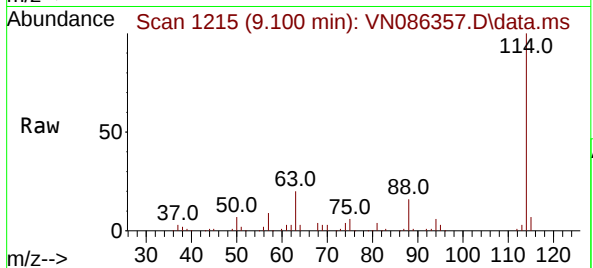
Tgt Ion:114 Resp: 164394

Ion Ratio Lower Upper

114 100

63 21.2 17.8 26.6

88 15.8 13.4 20.2



#36

1,2-Dichloroethane

Concen: 1.998 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.424 min

Lab File: VN086357.D

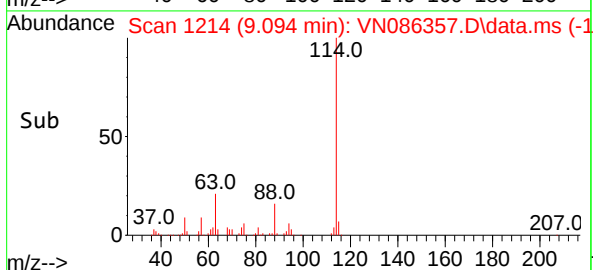
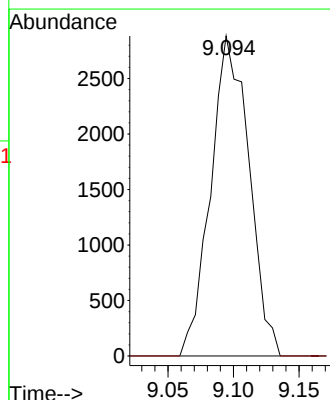
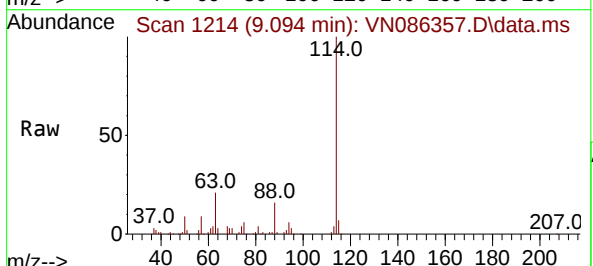
Acq: 21 Apr 2025 13:12

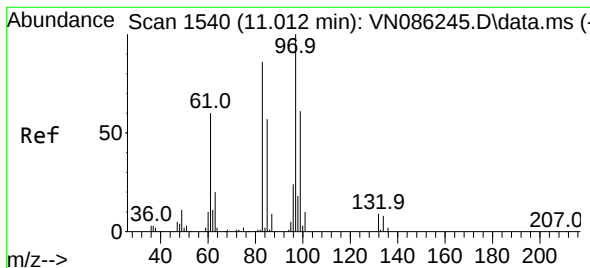
Tgt Ion: 62 Resp: 5857

Ion Ratio Lower Upper

62 100

98 0.0 8.6 12.8#





#50

1,1,2-Trichloroethane

Concen: 3.408 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN086357.D

Acq: 21 Apr 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

VN0421WBL01

Tgt Ion: 97 Resp: 7197

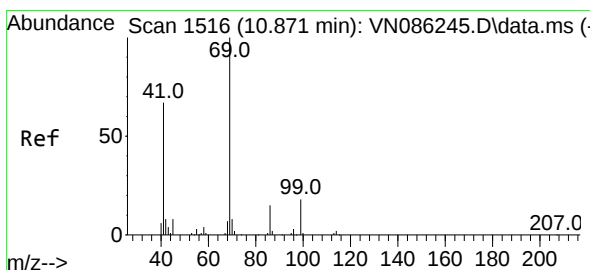
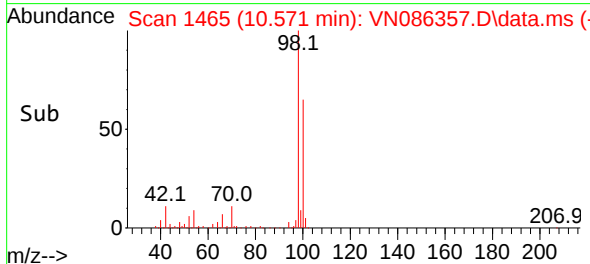
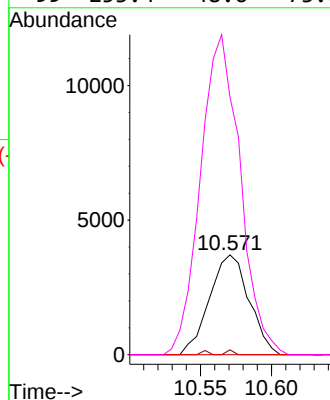
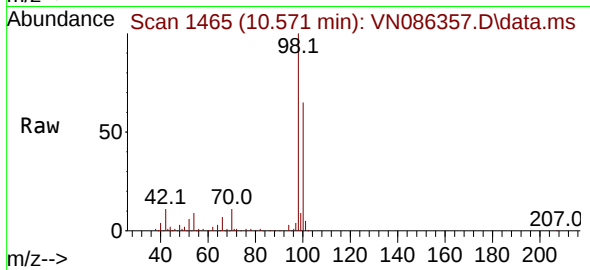
Ion Ratio Lower Upper

97 100

83 4.7 68.6 103.0#

85 0.0 45.9 68.9#

99 253.4 48.6 73.0#



#51

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.306 min

Lab File: VN086357.D

Acq: 21 Apr 2025 13:12

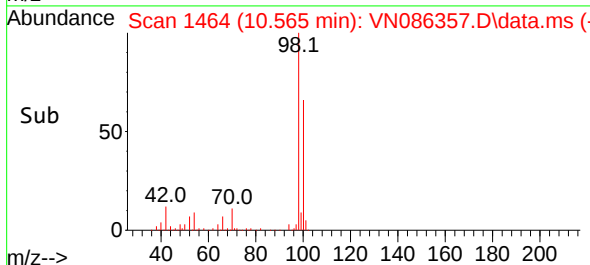
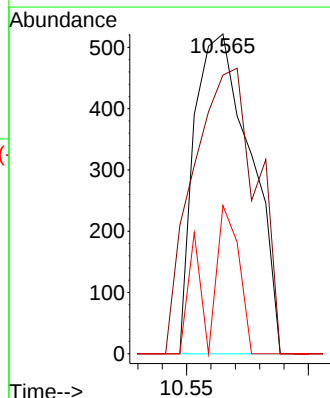
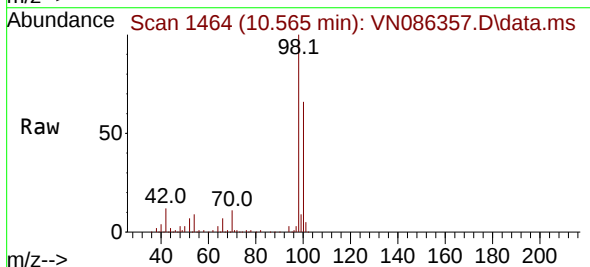
Tgt Ion: 69 Resp: 838

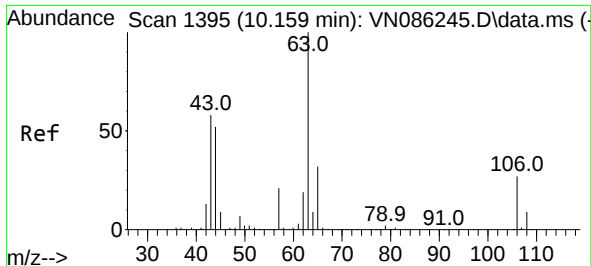
Ion Ratio Lower Upper

69 100

41 87.2 33.6 100.6

39 46.4 17.8 53.4

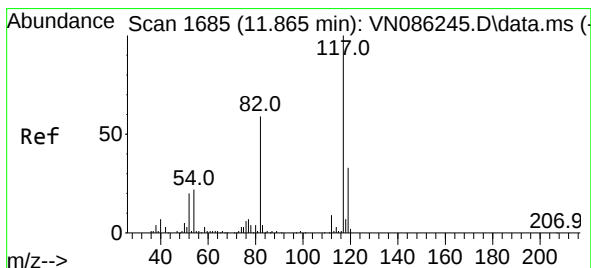
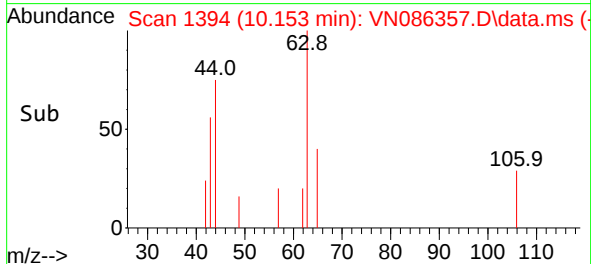
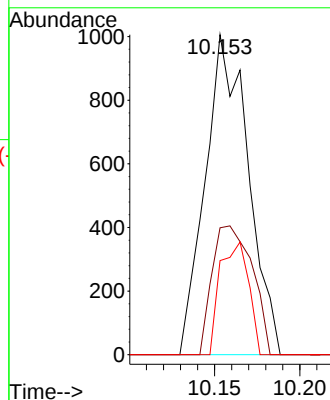
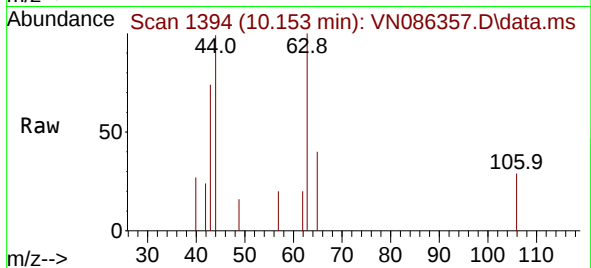




#55
2-Chloroethyl vinyl ether
Concen: 1.188 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

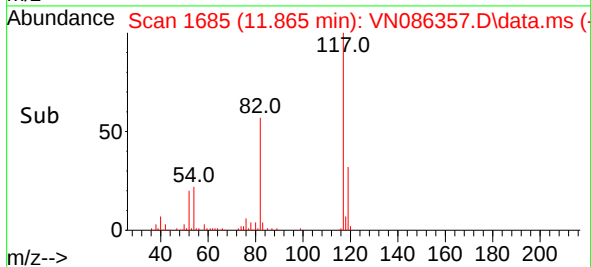
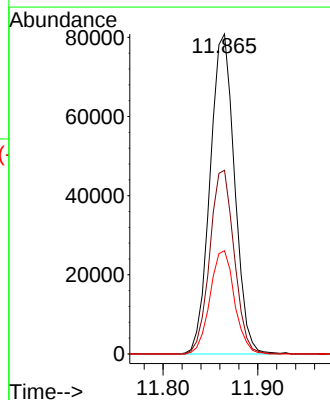
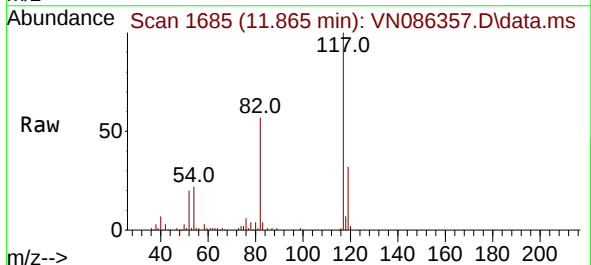
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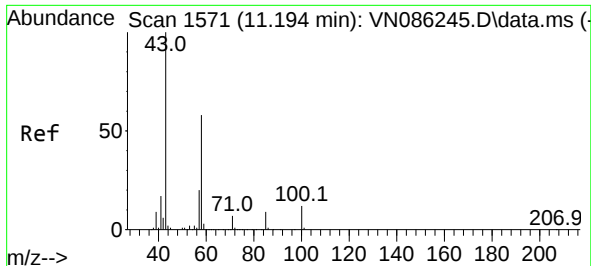
Tgt Ion: 63	Resp:	1762	
Ion	Ratio	Lower	Upper
63	100		
65	37.6	25.8	38.8
106	23.4	21.8	32.8



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion:117	Resp:	145643	
Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.3	70.9
119	32.3	25.9	38.9

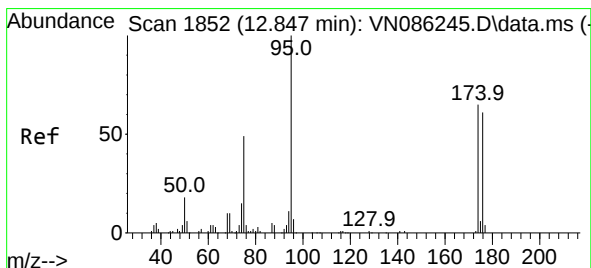
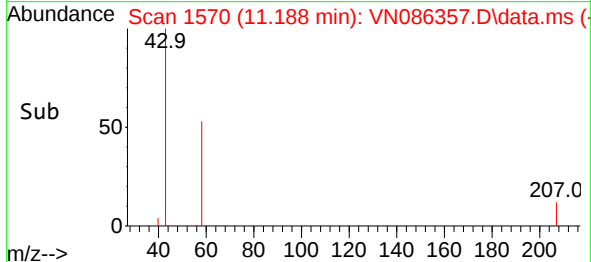
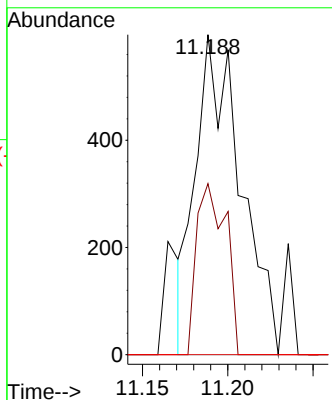
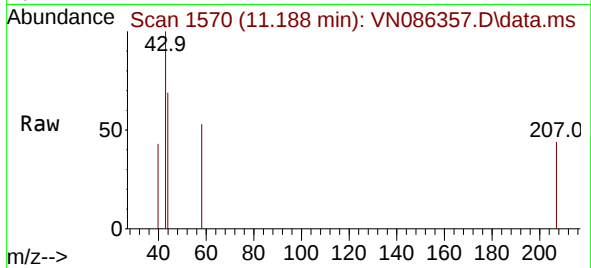




#59
2-Hexanone
Concen: 0.446 ug/l
RT: 11.188 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

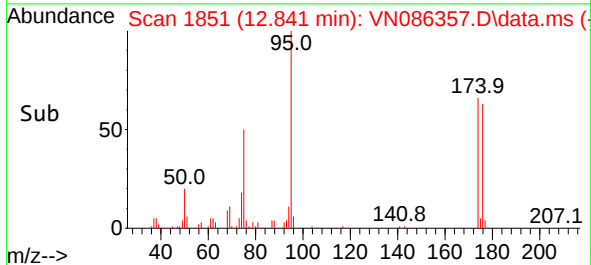
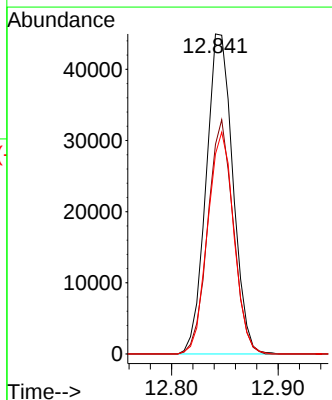
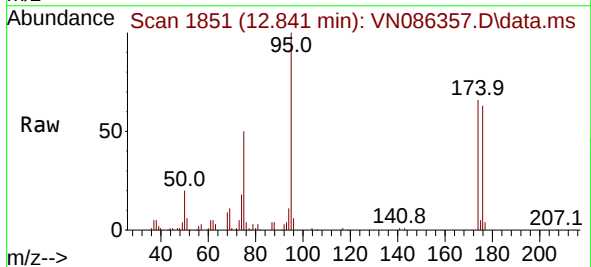
Instrument :
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VN0421WBL01

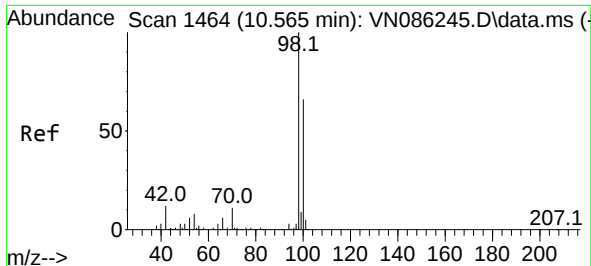
Tgt Ion: 43 Resp: 1098
Ion Ratio Lower Upper
43 100
58 34.9 45.3 67.9#
57 0.0 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 27.100 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion: 95 Resp: 78582
Ion Ratio Lower Upper
95 100
174 69.4 52.7 79.1
176 67.9 49.8 74.8

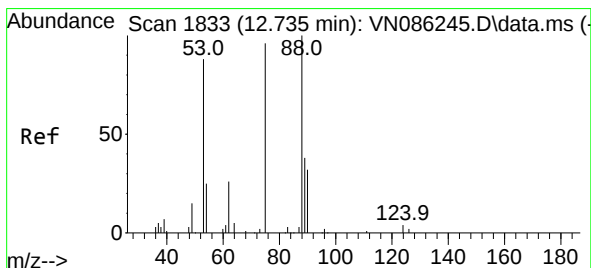
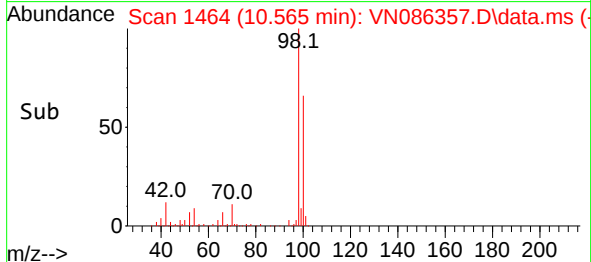
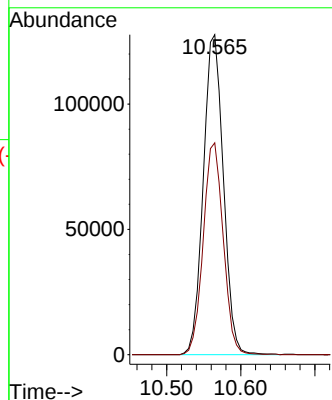
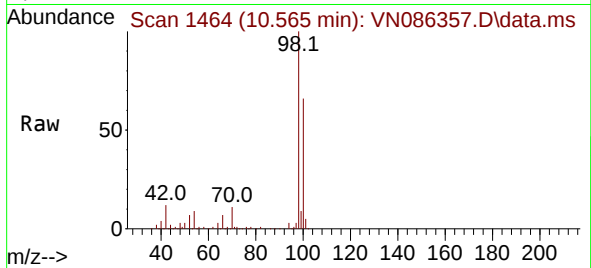




#63
Toluene-d8
Concen: 29.225 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

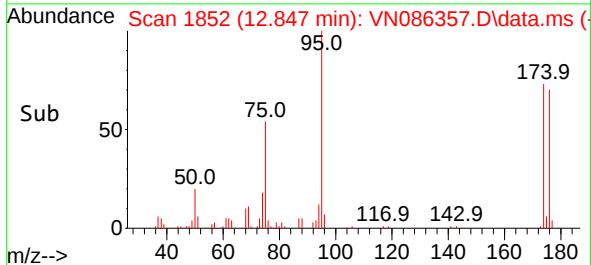
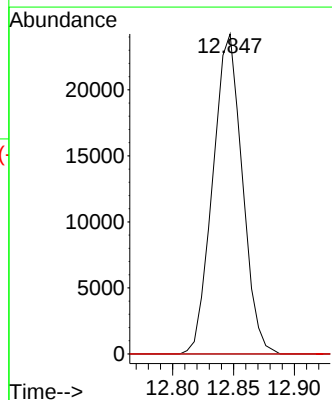
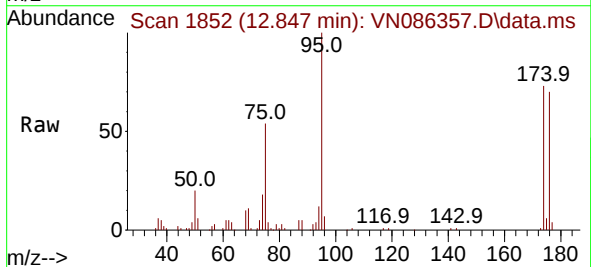
Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

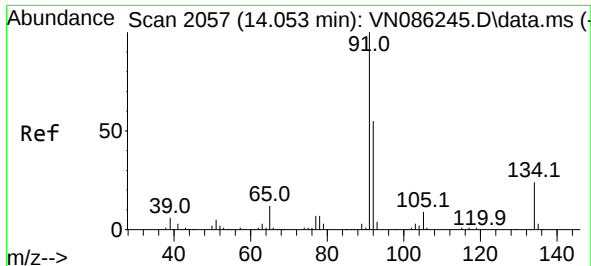
Tgt Ion: 98 Resp: 240295
Ion Ratio Lower Upper
98 100
100 65.8 52.3 78.5



#77
t-1,4-Dichloro-2-butene
Concen: 30.619 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Tgt Ion: 75 Resp: 40866
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

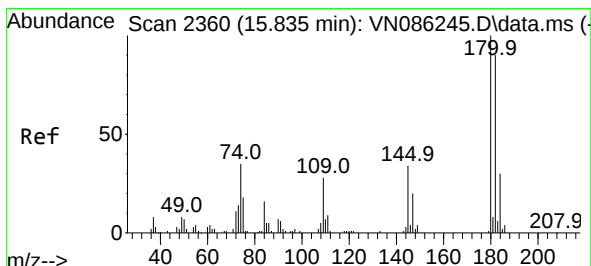
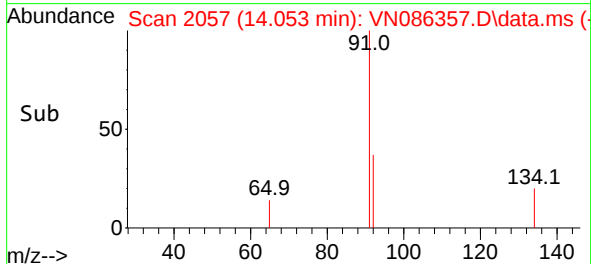
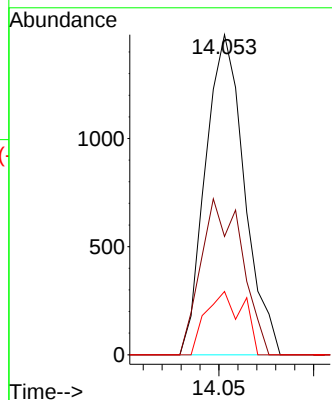
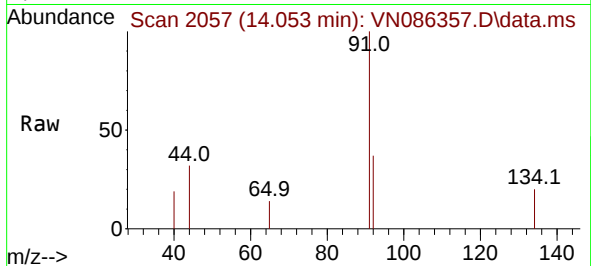




#85
n-Butylbenzene
Concen: 0.290 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

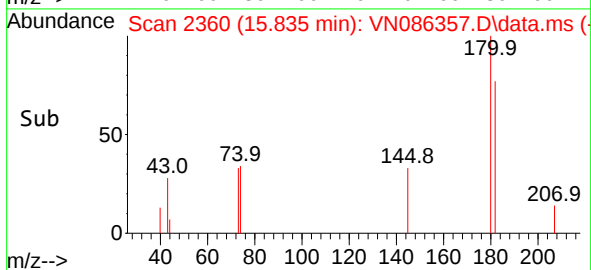
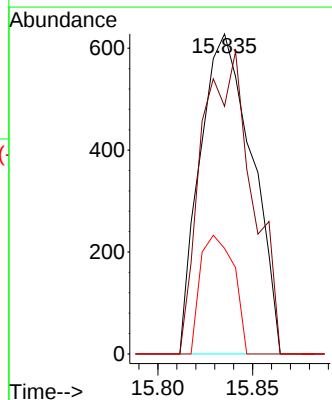
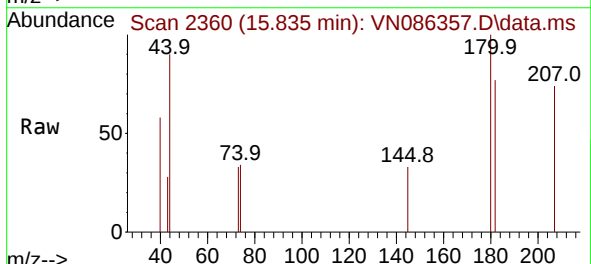
Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

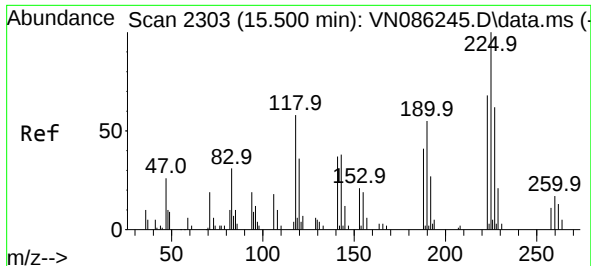
Tgt Ion:	91	Resp:	2116
Ion	Ratio	Lower	Upper
91	100		
92	51.6	0.0	109.4
134	14.5	0.0	48.2



#89
1,2,4-Trichlorobenzene
Concen: 0.620 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

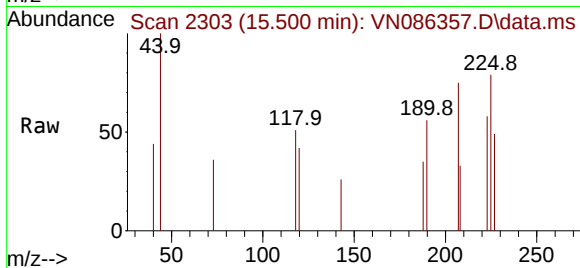
Tgt Ion:	180	Resp:	1198
Ion	Ratio	Lower	Upper
180	100		
182	48.9	75.1	112.7#
145	23.9	27.1	40.7#



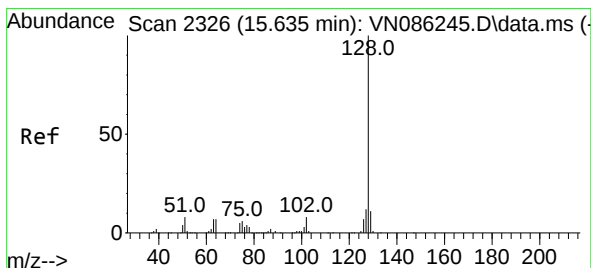
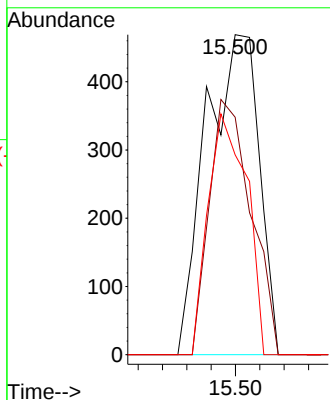
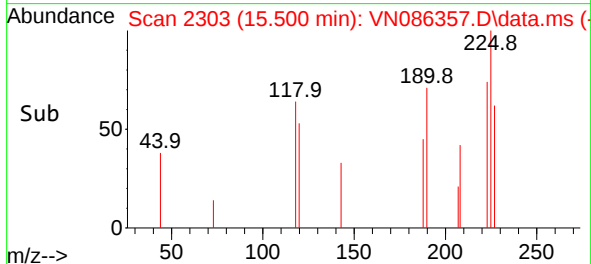


#90
Hexachlorobutadiene
Concen: 0.851 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
VN0421WBL01

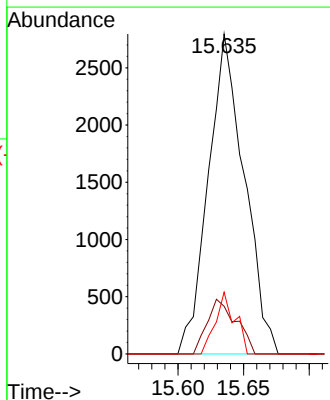
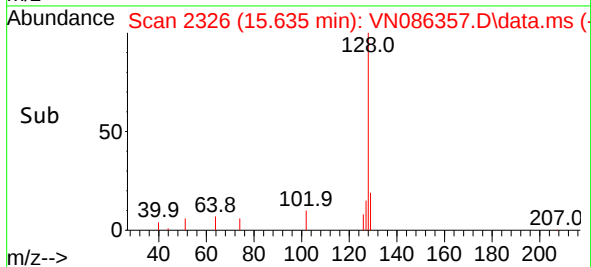
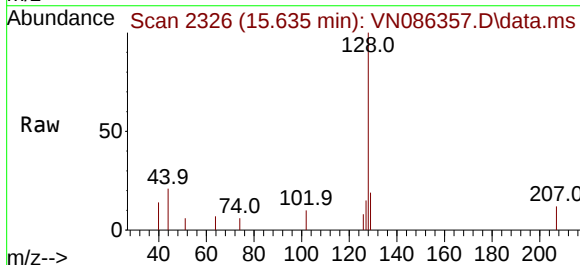


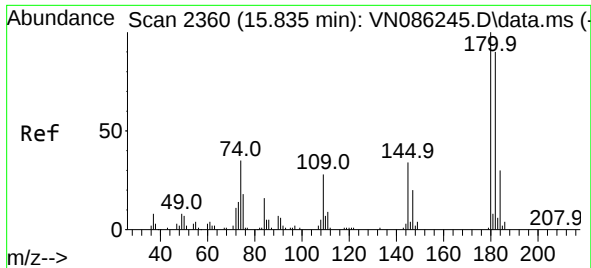
Tgt Ion:225 Resp: 710
Ion Ratio Lower Upper
225 100
223 63.0 0.0 130.0
227 54.9 0.0 123.2



#91
Naphthalene
Concen: 0.700 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086357.D
Acq: 21 Apr 2025 13:12

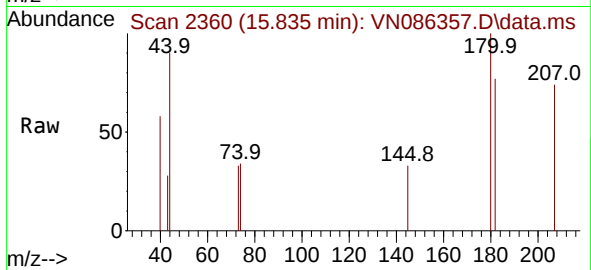
Tgt Ion:128 Resp: 5334
Ion Ratio Lower Upper
128 100
127 13.8 10.2 15.2
129 10.5 8.8 13.2





#92
 1,2,3-Trichlorobenzene
 Concen: 0.620 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN086357.D
 Acq: 21 Apr 2025 13:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBL01



Tgt Ion:	180	Resp:	1198
Ion	Ratio	Lower	Upper
180	100		
182	48.9	0.0	187.8
145	23.9	0.0	67.8

