

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120525\
 Data File : VN088466.D
 Acq On : 05 Dec 2025 10:26
 Operator : JC\MD
 Sample : VN1205WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBL01

Quant Time: Dec 05 23:38:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

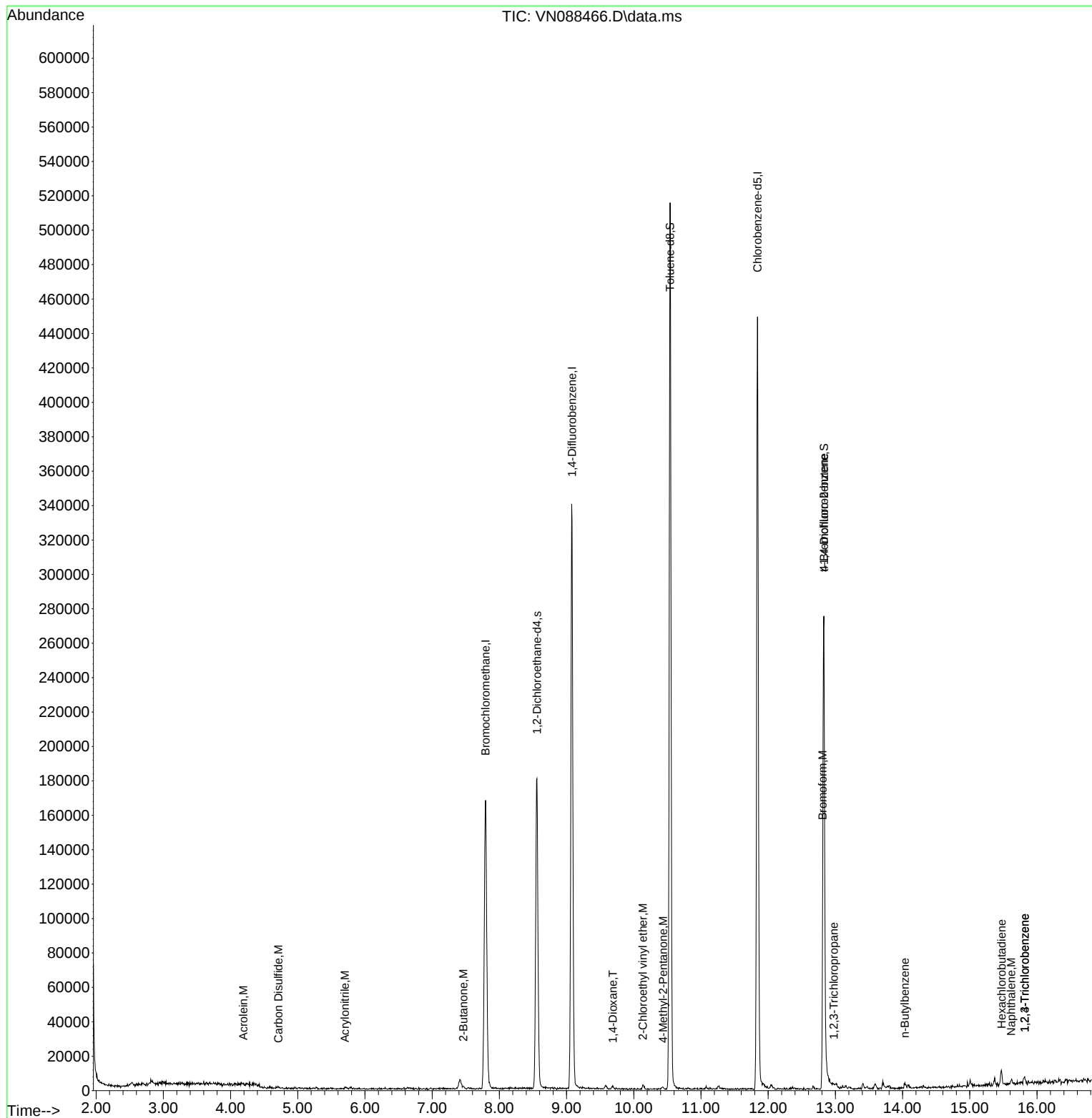
Internal Standards						
1) Bromochloromethane	7.794	128	52610	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	265051	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	235330	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	158711	33.026	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.100%#			
60) 4-Bromofluorobenzene	12.829	95	105075	26.413	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.033%			
63) Toluene-d8	10.541	98	331315	29.737	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.133%			
Target Compounds					Qvalue	
13) Acrolein	4.189	56	292	0.425	ug/l #	21
14) Acrylonitrile	5.700	53	497	0.234	ug/l	86
16) Carbon Disulfide	4.712	76	2243	0.230	ug/l #	74
30) 2-Butanone	7.465	43	654	0.229	ug/l #	58
45) 1,4-Dioxane	9.688	88	646	12.093	ug/l #	28
55) 2-Chloroethyl vinyl ether	10.135	63	1471	0.512	ug/l #	88
56) Bromoform	12.812	173	499	0.227	ug/l #	36
58) 4-Methyl-2-Pentanone	10.435	43	1533	0.288	ug/l #	64
72) 1,2,3-Trichloropropane	12.976	75	1135	0.260	ug/l	1
77) t-1,4-Dichloro-2-butene	12.829	75	59980	39.998	ug/l #	10
85) n-Butylbenzene	14.035	91	2606	0.227	ug/l	73
89) 1,2,4-Trichlorobenzene	15.817	180	783	0.242	ug/l #	32
90) Hexachlorobutadiene	15.476	225	1540	1.227	ug/l	87
91) Naphthalene	15.617	128	2981	0.255	ug/l #	77
92) 1,2,3-Trichlorobenzene	15.817	180	783	0.242	ug/l	32

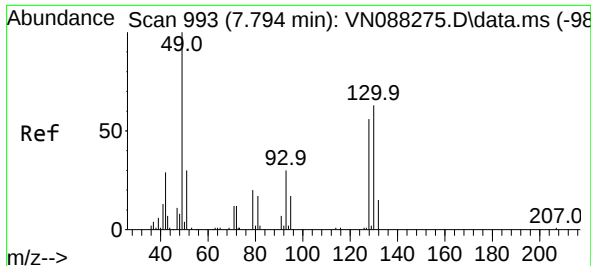
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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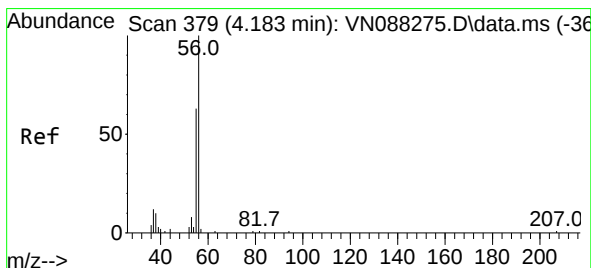
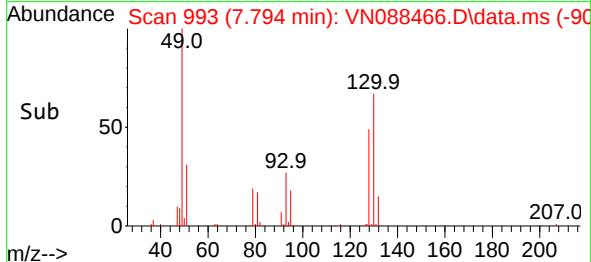
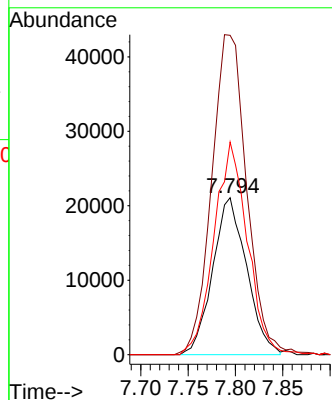
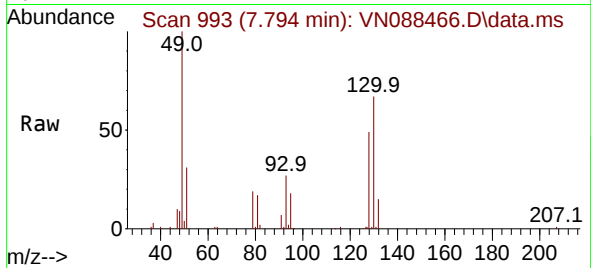




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

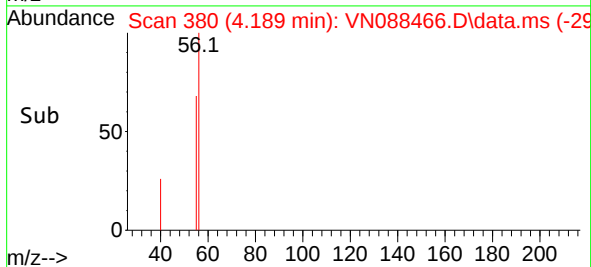
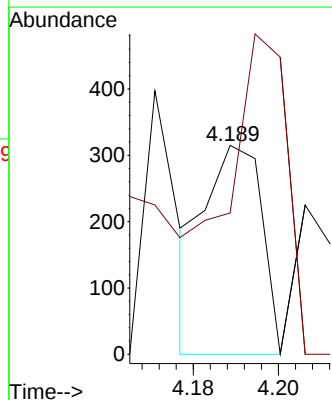
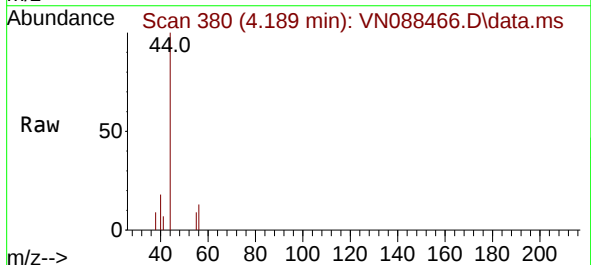
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

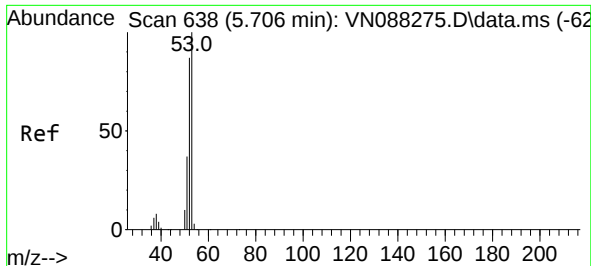
Tgt Ion:128 Resp: 52610
Ion Ratio Lower Upper
128 100
49 210.2 0.0 501.2
130 133.5 0.0 320.2



#13
Acrolein
Concen: 0.425 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 138.4 57.9 86.9#

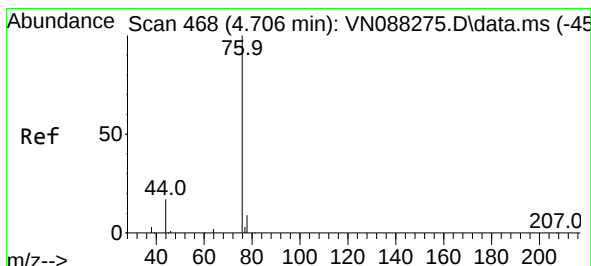
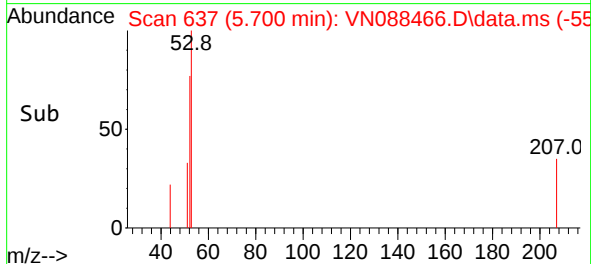
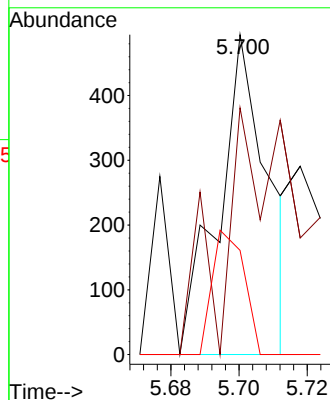
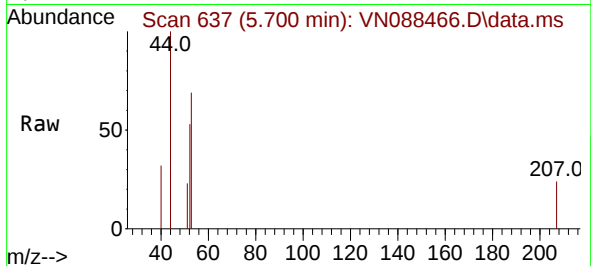




#14
Acrylonitrile
Concen: 0.234 ug/l
RT: 5.700 min Scan# 614
Delta R.T. -0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

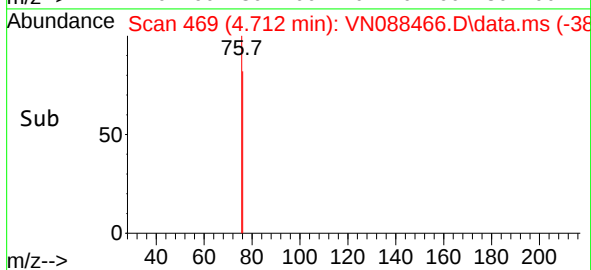
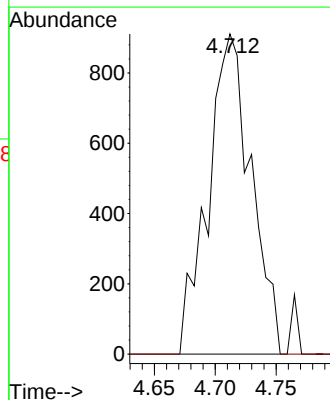
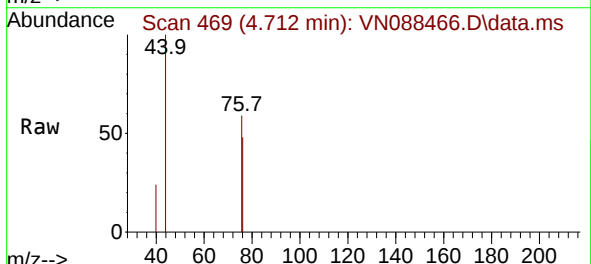
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

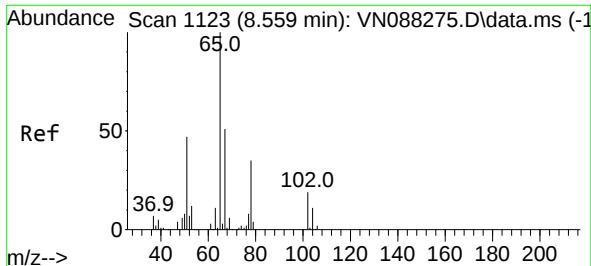
Tgt Ion: 53	Resp:	497	
Ion	Ratio	Lower	Upper
53	100		
52	95.4	42.3	126.9
51	25.2	18.4	55.2



#16
Carbon Disulfide
Concen: 0.230 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 76	Resp:	2243	
Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.5	11.3#





#27

1,2-Dichloroethane-d4

Concen: 33.026 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088466.D

Acq: 05 Dec 2025 10:26

Instrument :

MSVOA_N

ClientSampleId :

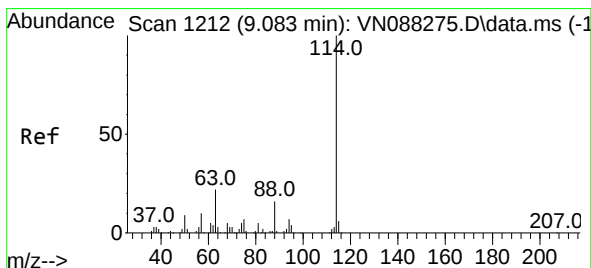
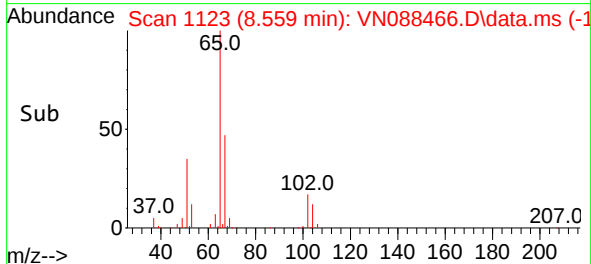
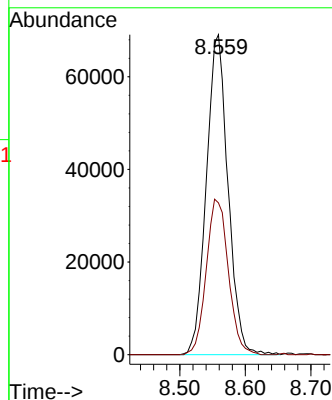
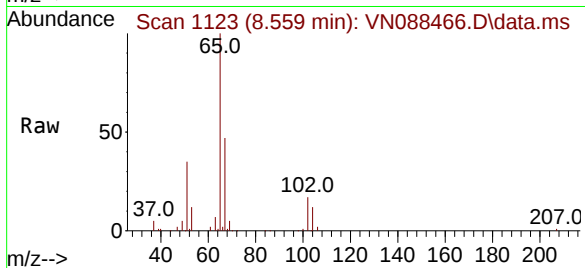
VN1205WBL01

Tgt Ion: 65 Resp: 158711

Ion Ratio Lower Upper

65 100

67 49.5 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088466.D

Acq: 05 Dec 2025 10:26

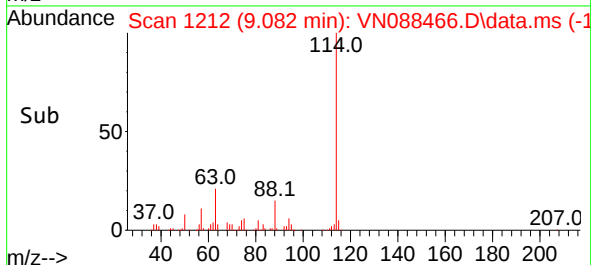
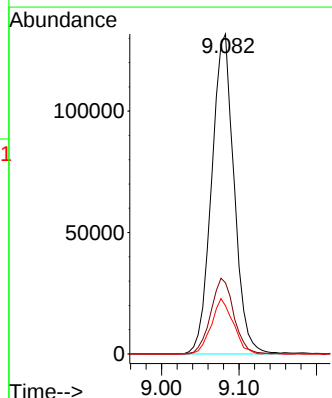
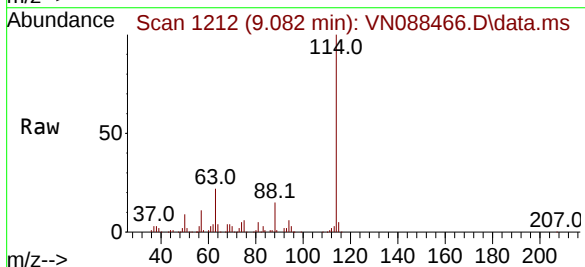
Tgt Ion: 114 Resp: 265051

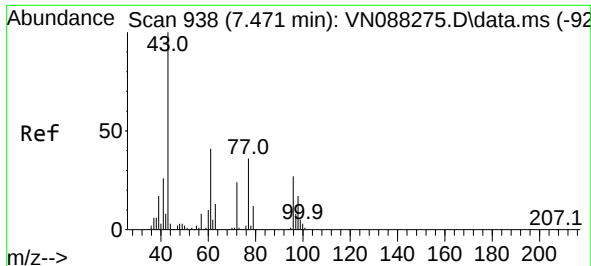
Ion Ratio Lower Upper

114 100

63 24.4 18.9 28.3

88 16.9 12.8 19.2

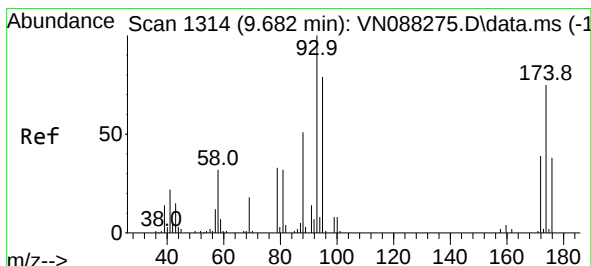
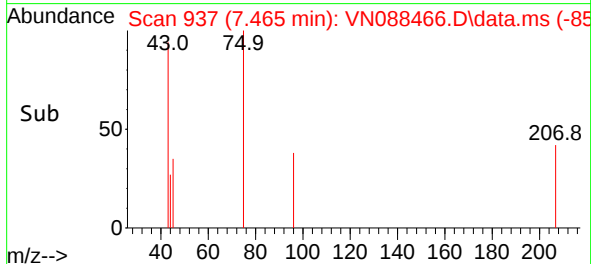
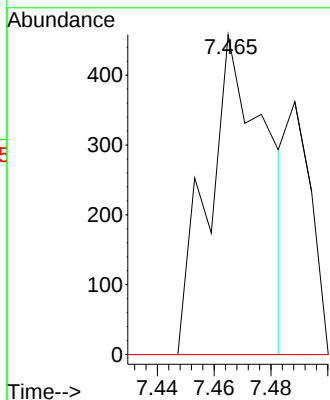
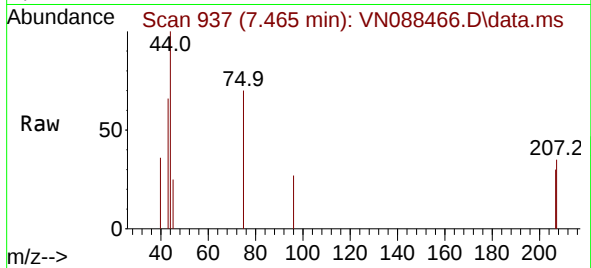




#30
2-Butanone
Concen: 0.229 ug/l
RT: 7.465 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

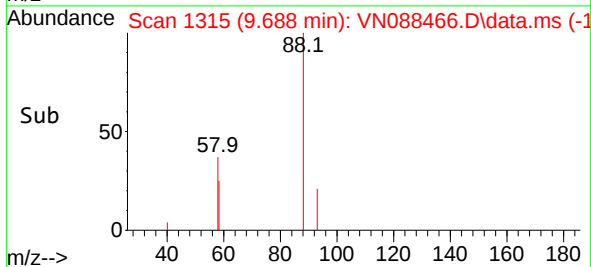
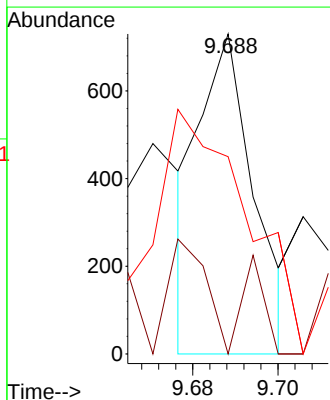
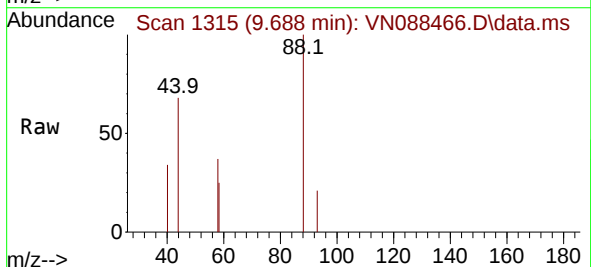
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

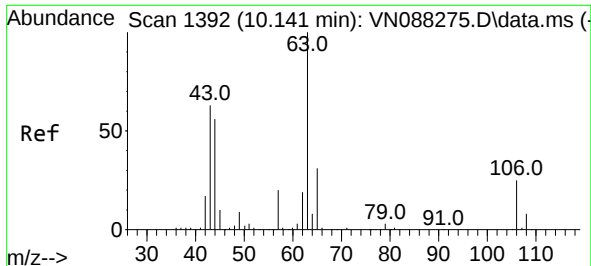
Tgt Ion: 43 Resp: 654
Ion Ratio Lower Upper
43 100
57 0.0 6.2 9.4#
72 0.0 19.4 29.2#



#45
1,4-Dioxane
Concen: 12.093 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 88 Resp: 646
Ion Ratio Lower Upper
88 100
43 12.2 27.8 41.8#
58 0.0 59.5 89.3#

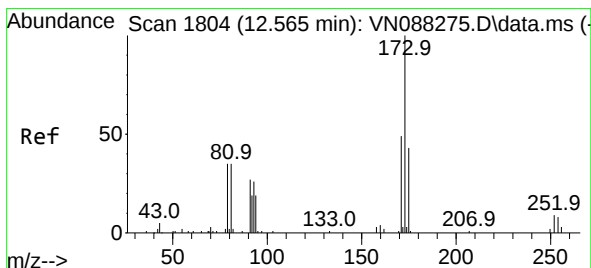
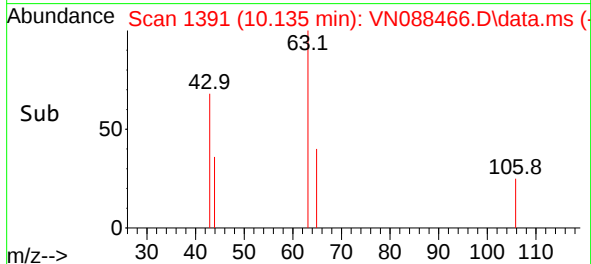
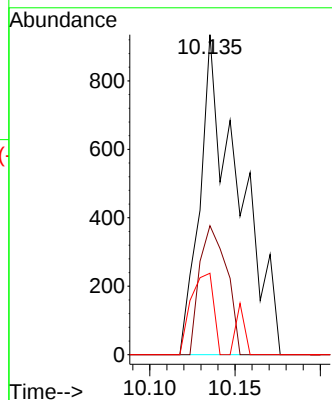
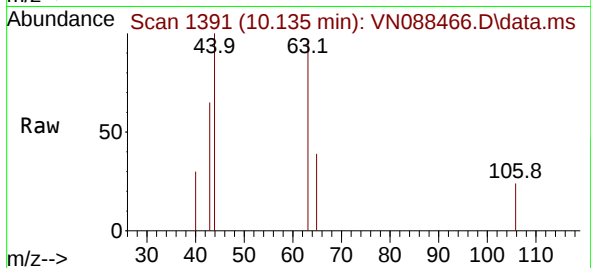




#55
2-Chloroethyl vinyl ether
Concen: 0.512 ug/l
RT: 10.135 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

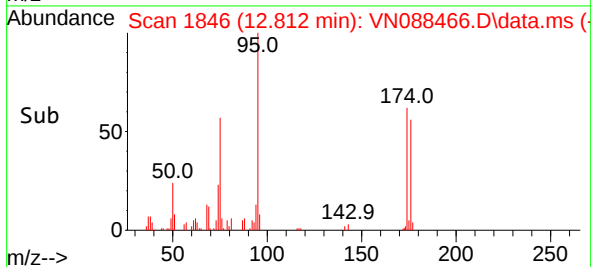
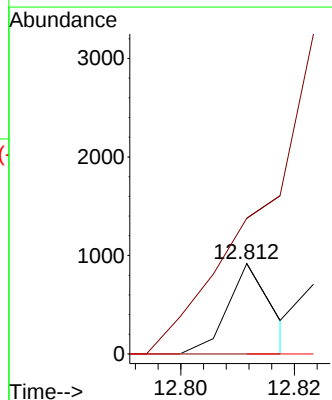
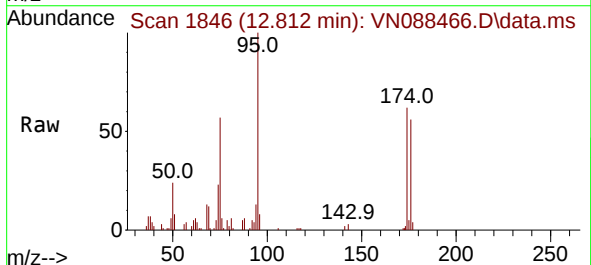
Instrument :
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ClientSampleId :
VN1205WBL01

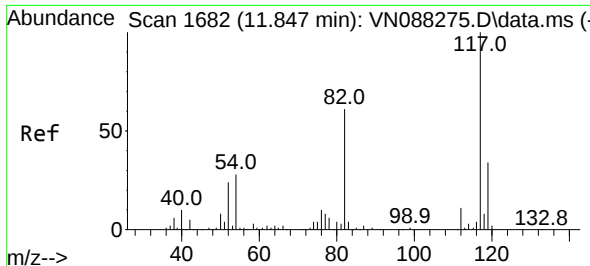
Tgt Ion:	63	Resp:	1471
Ion	Ratio	Lower	Upper
63	100		
65	28.4	24.9	37.3
106	14.9	20.3	30.5#



#56
Bromoform
Concen: 0.227 ug/l
RT: 12.812 min Scan# 1846
Delta R.T. 0.247 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion:	173	Resp:	499
Ion	Ratio	Lower	Upper
173	100		
175	0.0	37.7	56.5#
254	0.0	5.9	8.9#

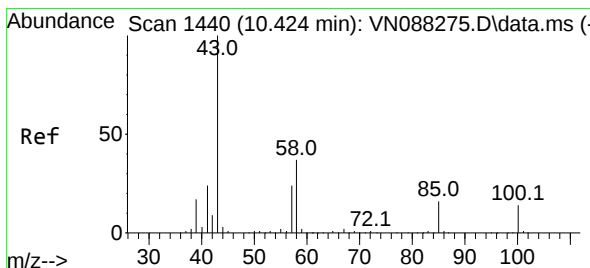
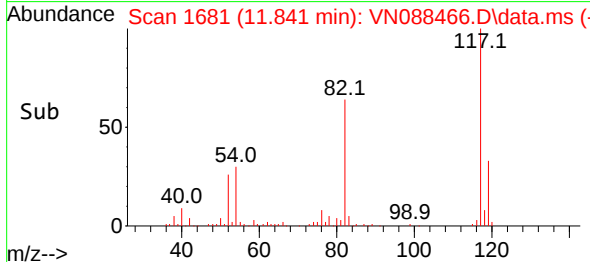
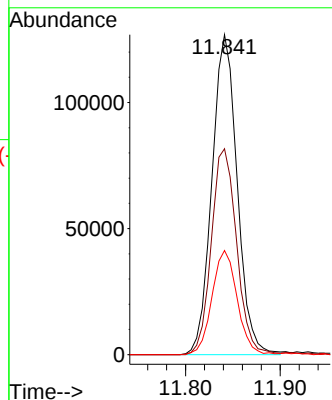
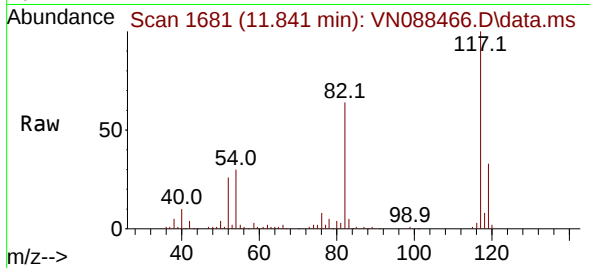




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

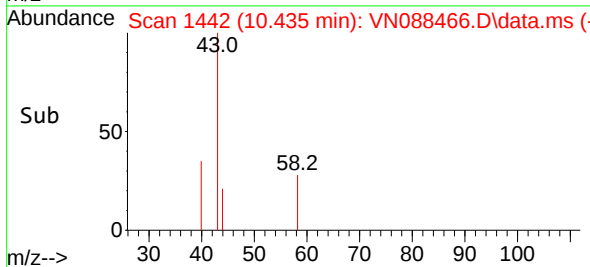
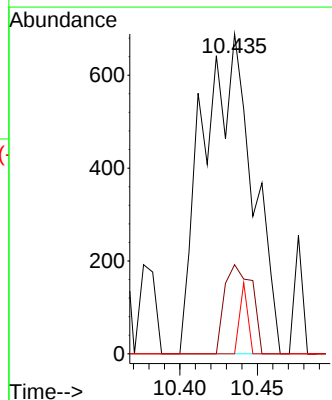
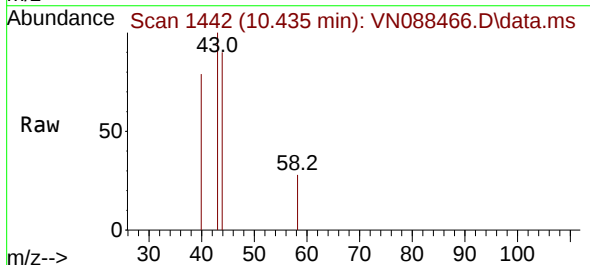
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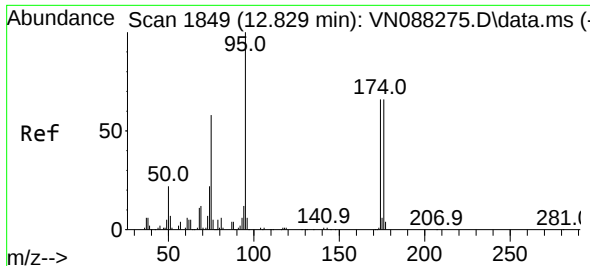
Tgt Ion:117 Resp: 235330
Ion Ratio Lower Upper
117 100
82 64.4 49.3 73.9
119 32.3 26.4 39.6



#58
4-Methyl-2-Pentanone
Concen: 0.288 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 43 Resp: 1533
Ion Ratio Lower Upper
43 100
58 15.3 29.2 43.8#
85 0.0 12.6 19.0#

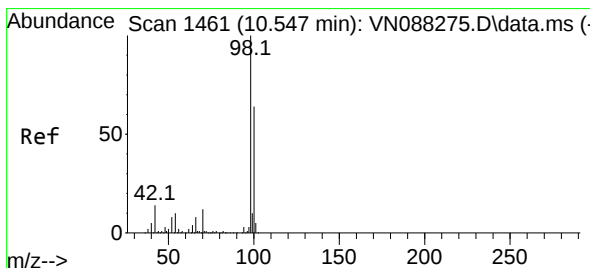
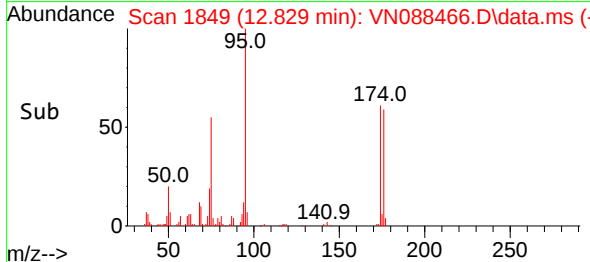
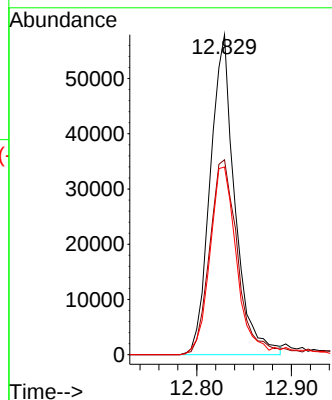
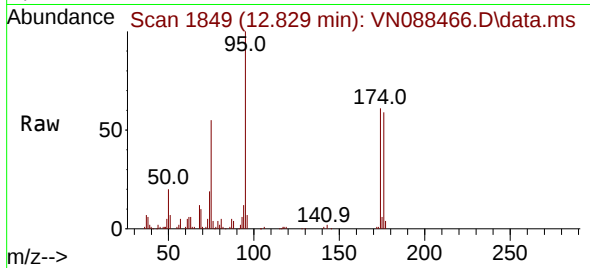




#60
4-Bromofluorobenzene
Concen: 26.413 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

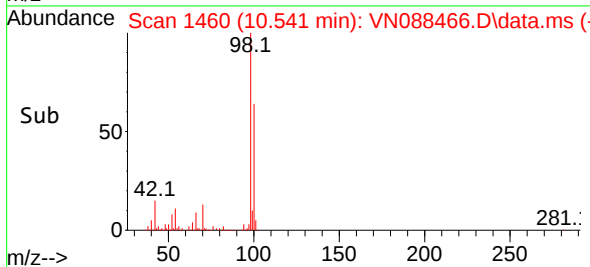
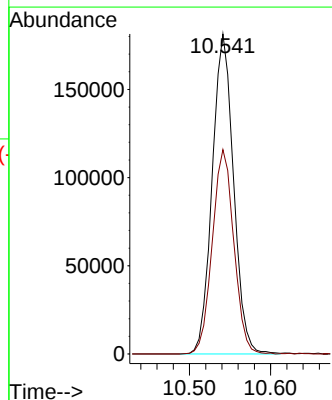
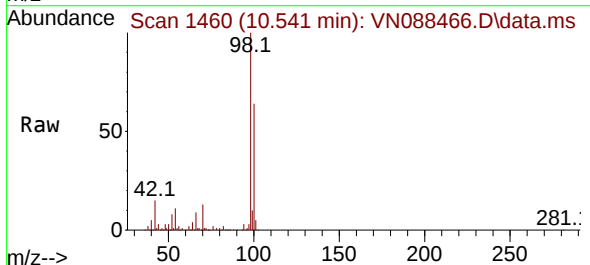
Instrument :
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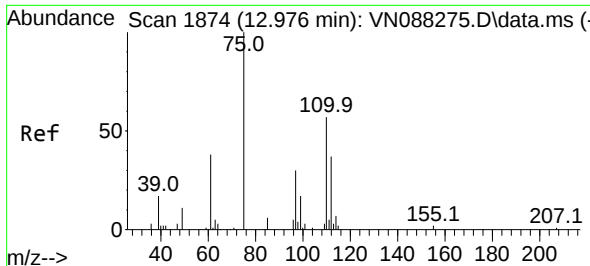
Tgt Ion: 95 Resp: 105075
Ion Ratio Lower Upper
95 100
174 68.2 54.5 81.7
176 62.8 53.8 80.6



#63
Toluene-d8
Concen: 29.737 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 98 Resp: 331315
Ion Ratio Lower Upper
98 100
100 64.4 51.6 77.4

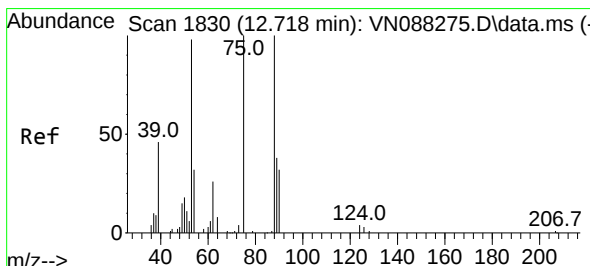
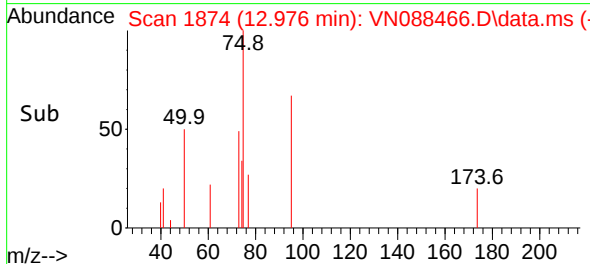
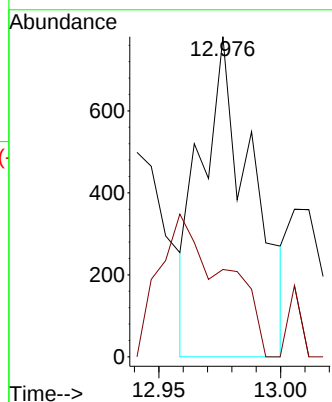
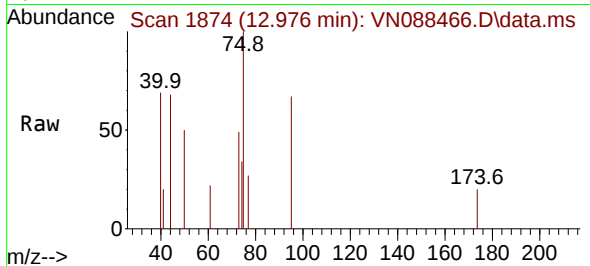




#72
1,2,3-Trichloropropane
Concen: 0.260 ug/l
RT: 12.976 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

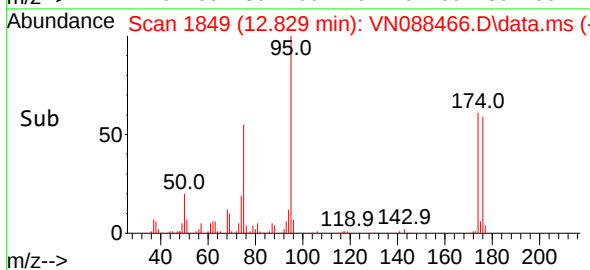
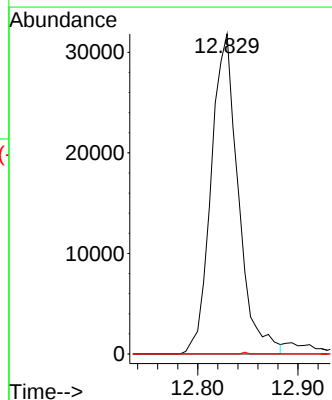
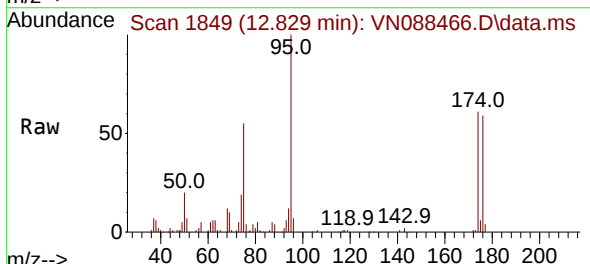
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

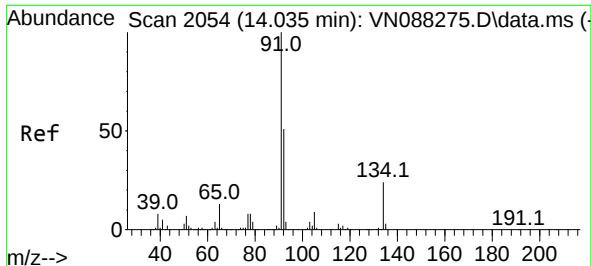
Tgt Ion: 75 Resp: 1135
Ion Ratio Lower Upper
75 100
77 18.2 0.0 386.6



#77
t-1,4-Dichloro-2-butene
Concen: 39.998 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion: 75 Resp: 59980
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 22.3 66.9#

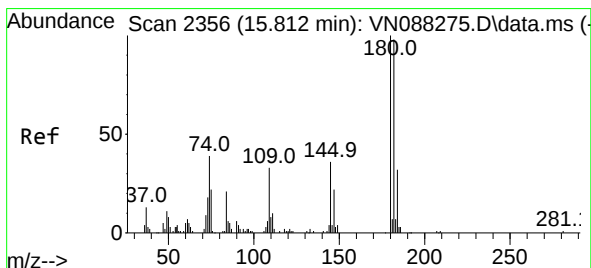
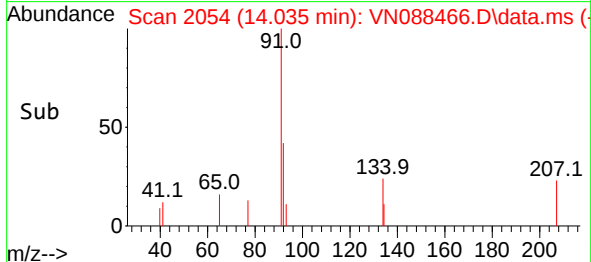
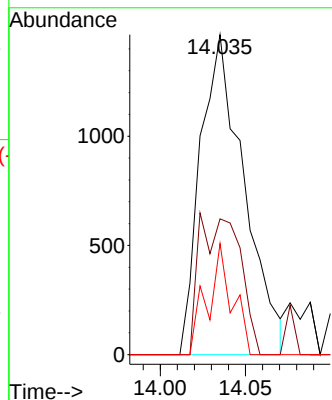
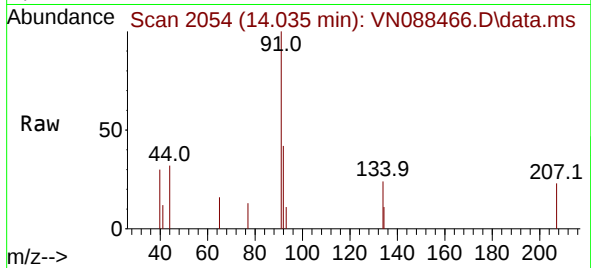




#85
n-Butylbenzene
Concen: 0.227 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

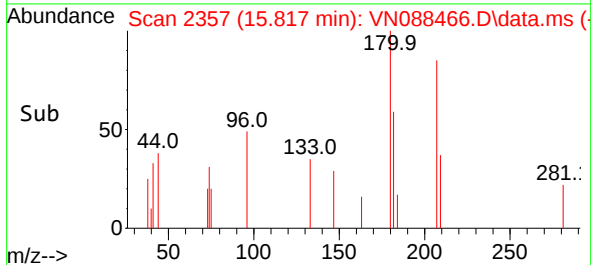
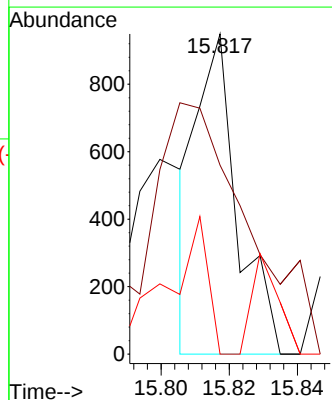
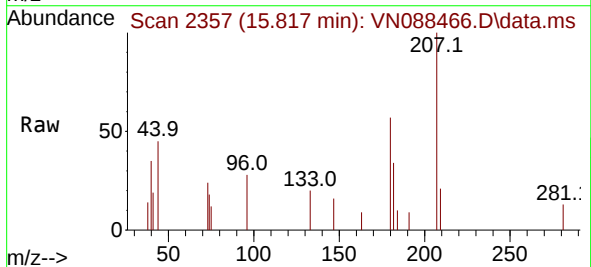
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

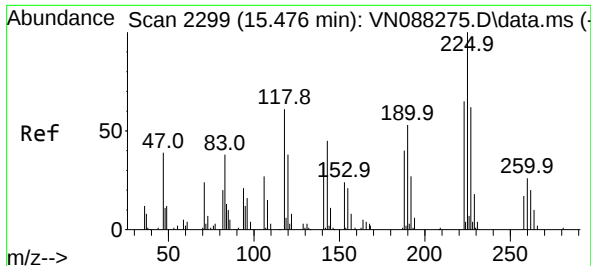
Tgt Ion:	91	Resp:	2606
Ion	Ratio	Lower	Upper
91	100		
92	25.7	0.0	102.4
134	19.6	0.0	45.8



#89
1,2,4-Trichlorobenzene
Concen: 0.242 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

Tgt Ion:	180	Resp:	783
Ion	Ratio	Lower	Upper
180	100		
182	177.1	77.3	115.9#
145	18.4	30.2	45.4#

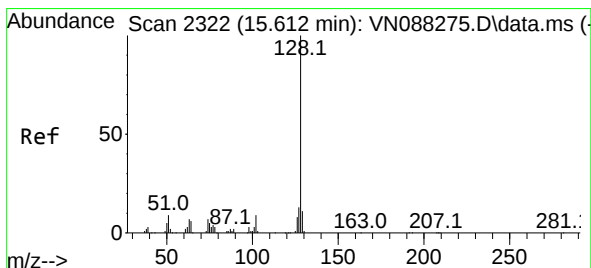
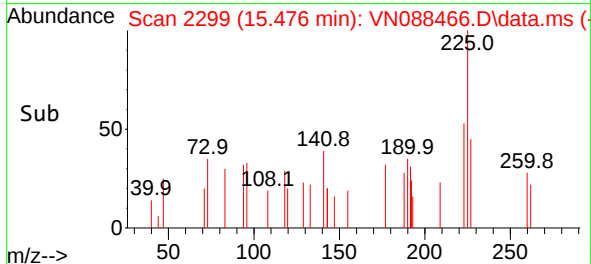
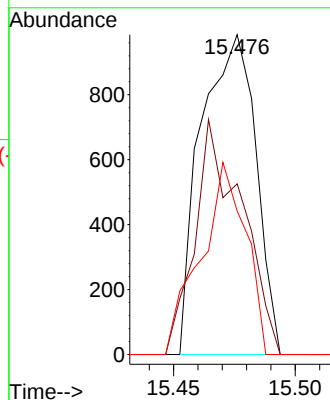
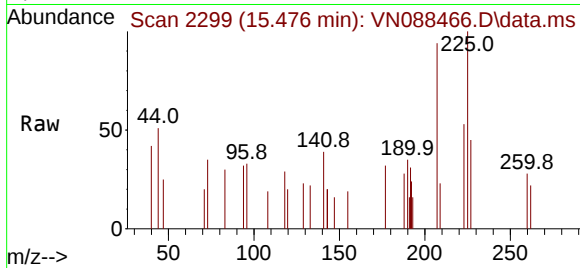




#90
Hexachlorobutadiene
Concen: 1.227 ug/l
RT: 15.476 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

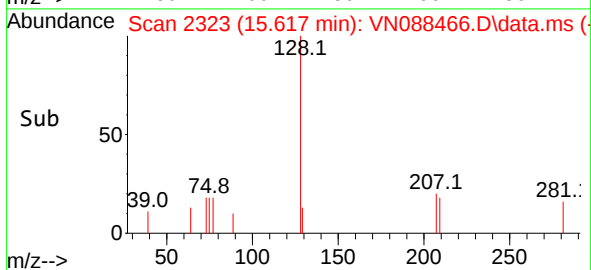
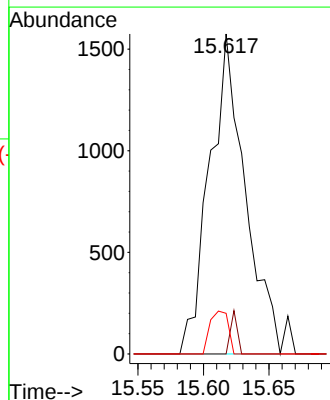
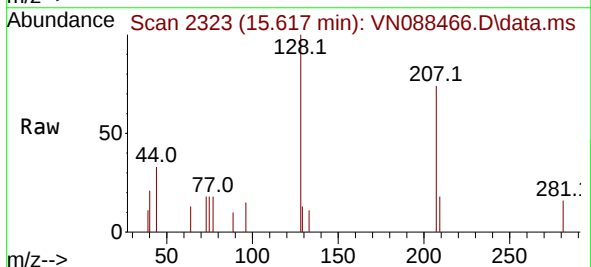
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

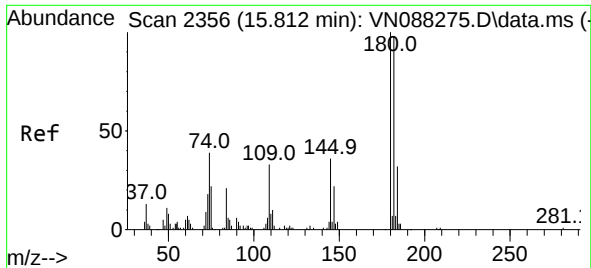
Tgt Ion:225	Resp:	1540
Ion Ratio	Lower	Upper
225	100	
223	62.9	0.0 132.0
227	49.4	0.0 132.6



#91
Naphthalene
Concen: 0.255 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088466.D
Acq: 05 Dec 2025 10:26

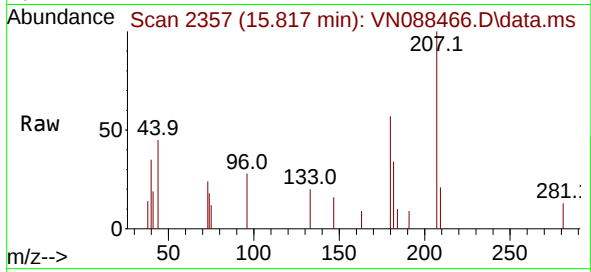
Tgt Ion:128	Resp:	2981
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.6 16.0#
129	6.9	8.8 13.2#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.242 ug/l
 RT: 15.817 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN088466.D
 Acq: 05 Dec 2025 10:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBL01



Tgt Ion:	180	Resp:	783
Ion	Ratio	Lower	Upper
180	100		
182	177.1	0.0	193.2
145	18.4	0.0	75.6

