

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086815.D
 Acq On : 29 May 2025 14:55
 Operator : JC\MD
 Sample : VN0529WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBL01

Quant Time: May 30 02:43:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

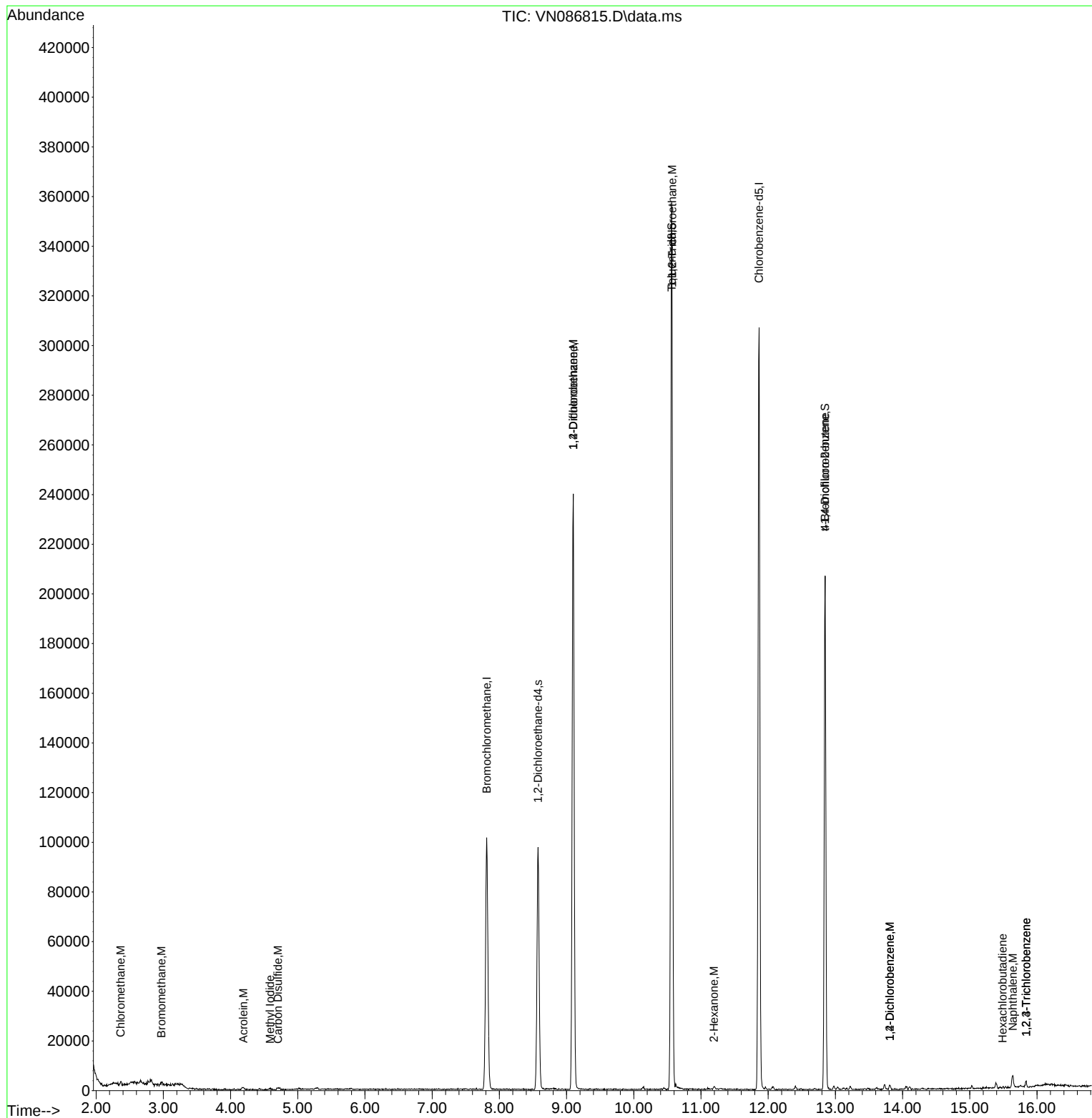
Internal Standards						
1) Bromochloromethane	7.812	128	38604	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	217678	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191557	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	80131	30.211	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.700%
60) 4-Bromofluorobenzene	12.847	95	79039	26.281	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.600%
63) Toluene-d8	10.565	98	262130	29.814	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.367%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1250	0.370	ug/l #	88
5) Bromomethane	2.971	94	758	0.460	ug/l #	49
11) Methyl Iodide	4.589	142	837	0.312	ug/l #	73
13) Acrolein	4.189	56	1282	4.908	ug/l #	41
16) Carbon Disulfide	4.706	76	1335	0.201	ug/l #	75
36) 1,2-Dichloroethane	9.100	62	6835	2.240	ug/l #	72
50) 1,1,2-Trichloroethane	10.570	97	8657	3.749	ug/l #	1
59) 2-Hexanone	11.194	43	978	0.486	ug/l #	75
77) t-1,4-Dichloro-2-butene	12.847	75	37847	31.444	ug/l #	14
84) 1,4-Dichlorobenzene	13.811	146	1171	0.244	ug/l	92
87) 1,2-Dichlorobenzene	13.811	146	1171	0.252	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	1170	0.602	ug/l #	86
90) Hexachlorobutadiene	15.488	225	196	0.235	ug/l #	51
91) Naphthalene	15.641	128	6460	0.953	ug/l #	88
92) 1,2,3-Trichlorobenzene	15.841	180	1170	0.602	ug/l	86

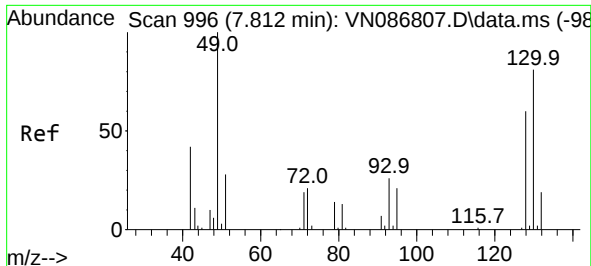
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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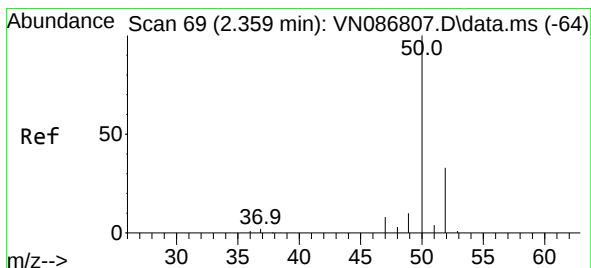
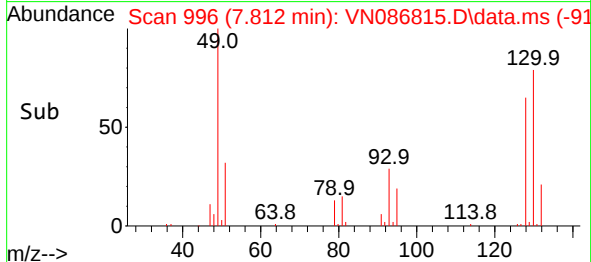
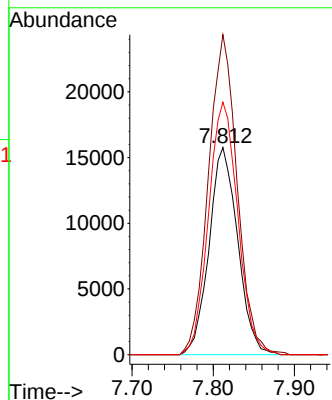
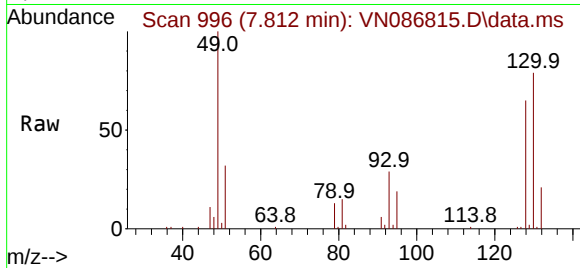




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

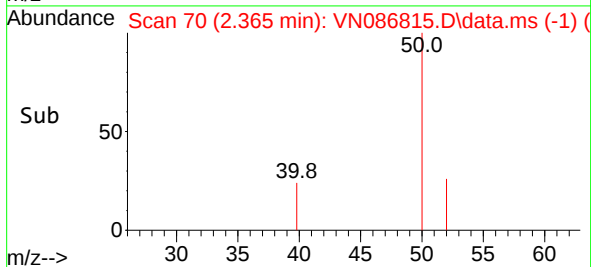
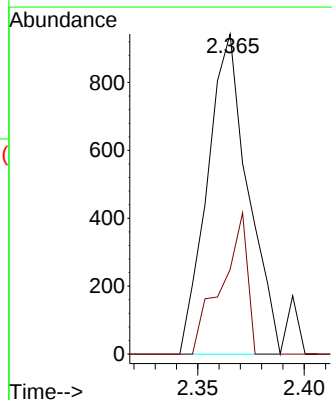
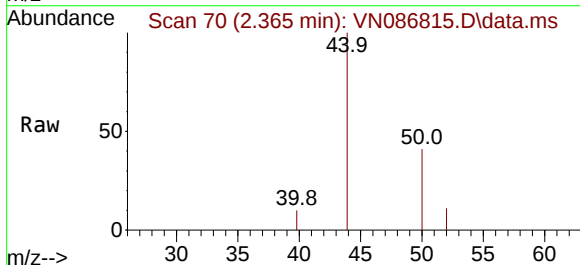
Instrument :
MSVOA_N
ClientSampleId :
VN0529WBL01

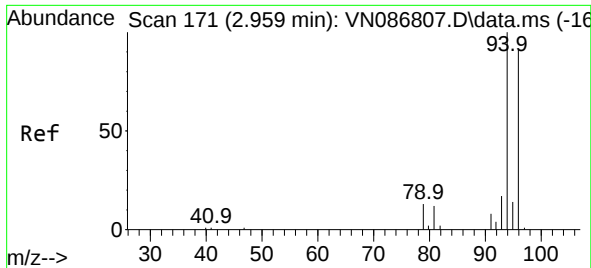
Tgt Ion:128 Resp: 38604
Ion Ratio Lower Upper
128 100
49 155.4 0.0 404.5
130 125.1 0.0 322.2



#3
Chloromethane
Concen: 0.370 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Tgt Ion: 50 Resp: 1250
Ion Ratio Lower Upper
50 100
52 26.4 26.6 40.0#

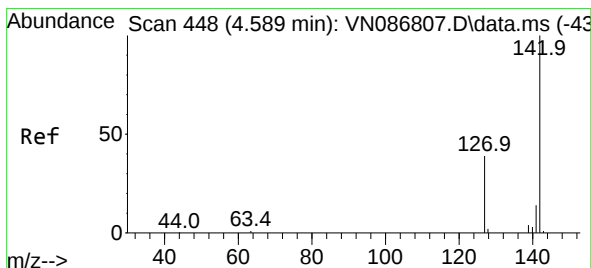
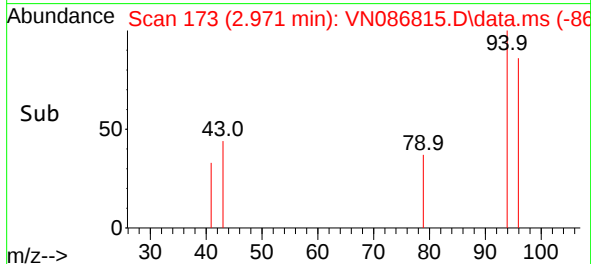
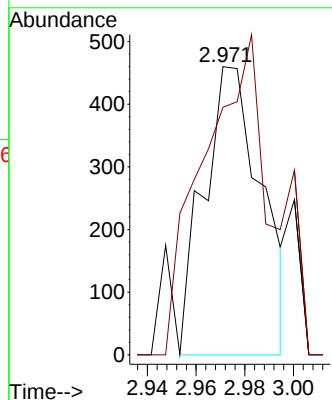
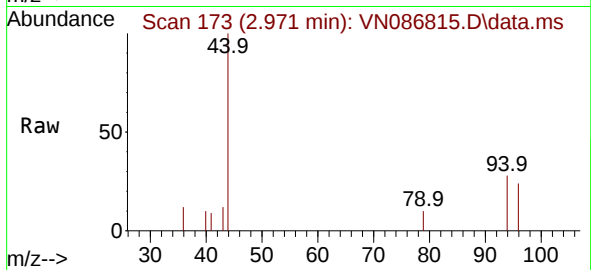




#5
Bromomethane
Concen: 0.460 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

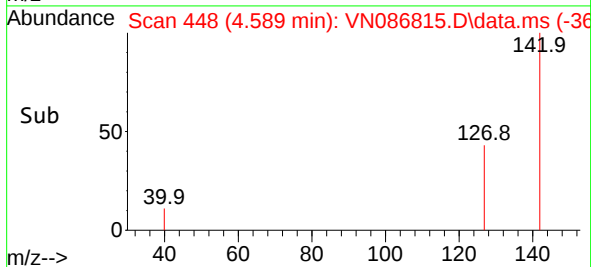
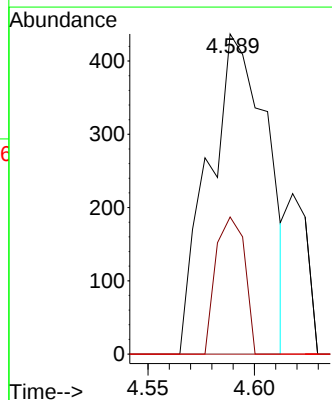
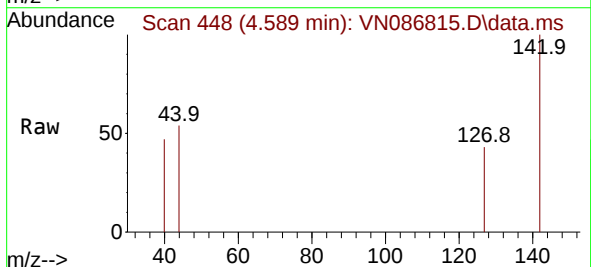
Instrument :
MSVOA_N
ClientSampleId :
VN0529WBL01

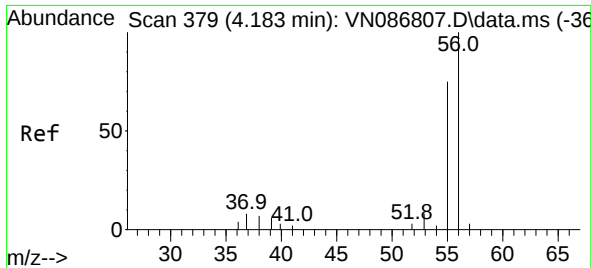
Tgt Ion: 94 Resp: 758
Ion Ratio Lower Upper
94 100
96 42.4 72.7 109.1#



#11
Methyl Iodide
Concen: 0.312 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Tgt Ion:142 Resp: 837
Ion Ratio Lower Upper
142 100
127 53.8 19.5 58.5
141 0.0 7.1 21.4#

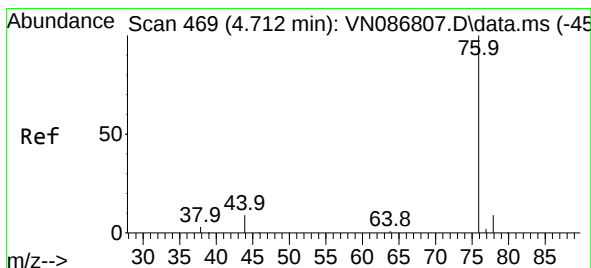
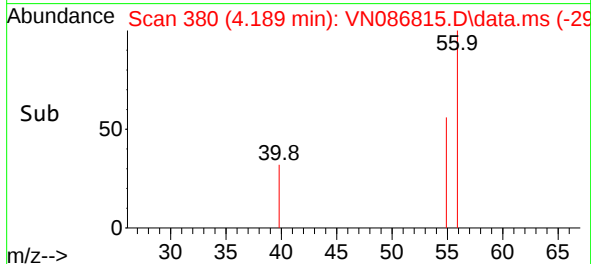
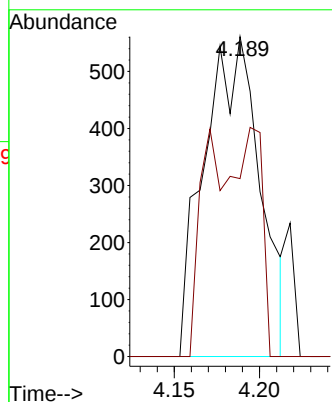
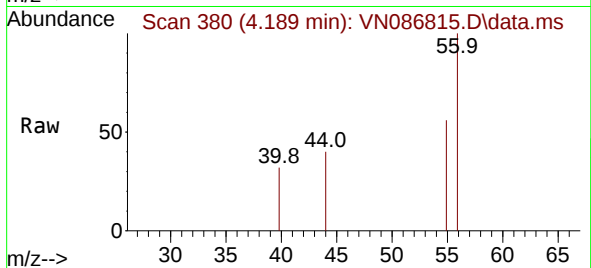




#13
Acrolein
Concen: 4.908 ug/l
RT: 4.189 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

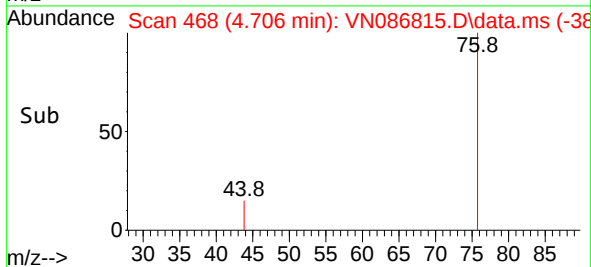
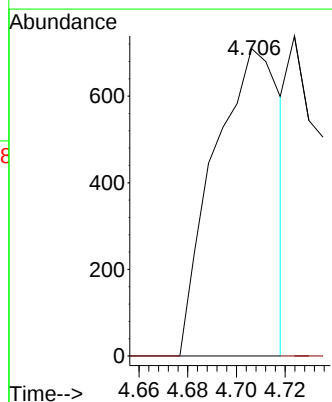
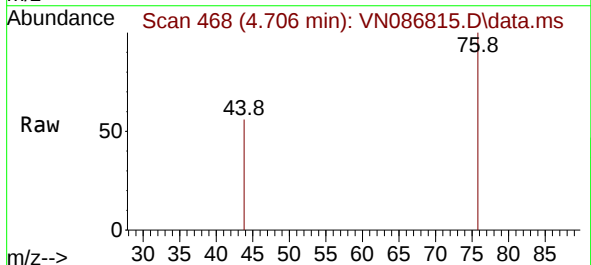
Instrument :
MSVOA_N
ClientSampleId :
VN0529WBL01

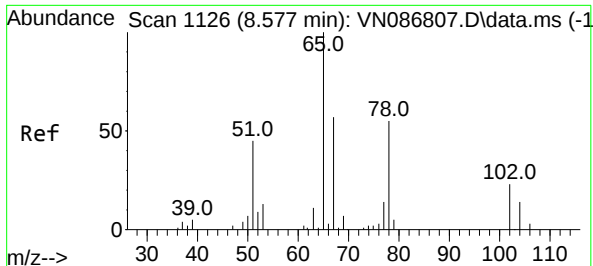
Tgt Ion: 56 Resp: 1282
Ion Ratio Lower Upper
56 100
55 21.9 55.9 83.9#



#16
Carbon Disulfide
Concen: 0.201 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Tgt Ion: 76 Resp: 1335
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

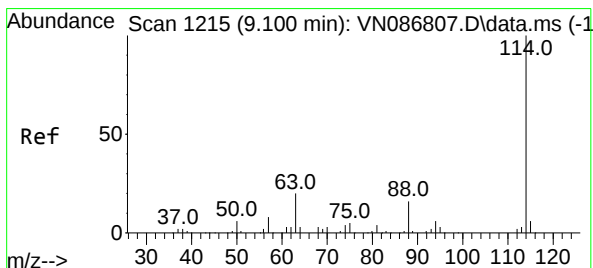
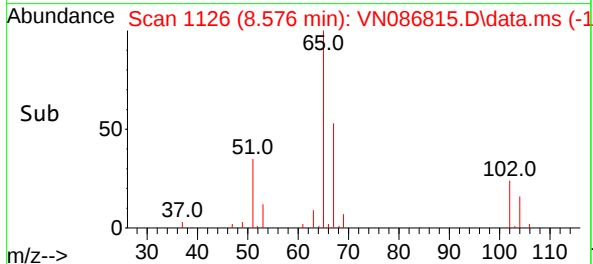
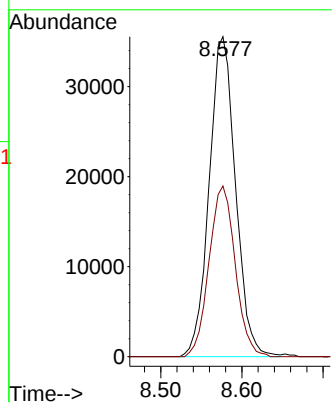
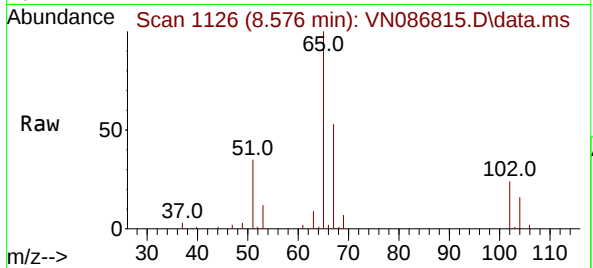




#27
 1,2-Dichloroethane-d4
 Concen: 30.211 ug/l
 RT: 8.576 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086815.D
 Acq: 29 May 2025 14:55

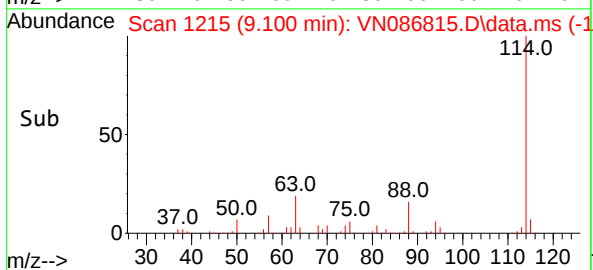
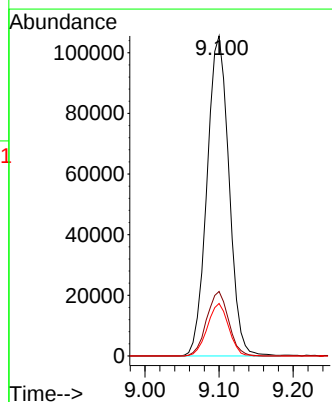
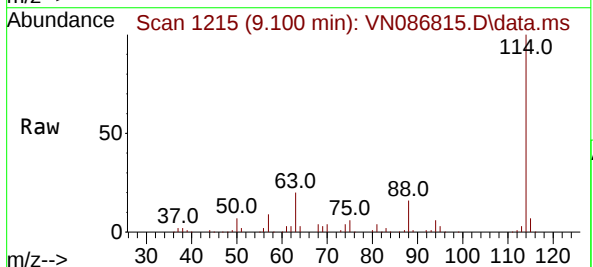
Instrument :
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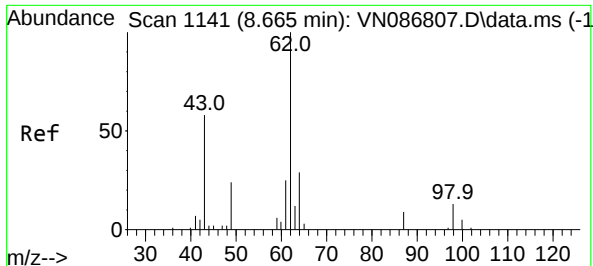
Tgt Ion: 65 Resp: 80131
 Ion Ratio Lower Upper
 65 100
 67 53.1 44.6 67.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086815.D
 Acq: 29 May 2025 14:55

Tgt Ion: 114 Resp: 217678
 Ion Ratio Lower Upper
 114 100
 63 20.1 15.8 23.8
 88 15.8 12.9 19.3





#36

1,2-Dichloroethane

Concen: 2.240 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.435 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

Instrument :

MSVOA_N

ClientSampleId :

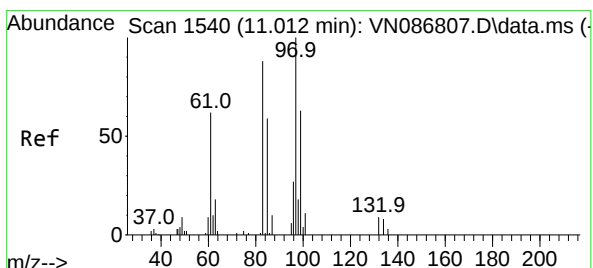
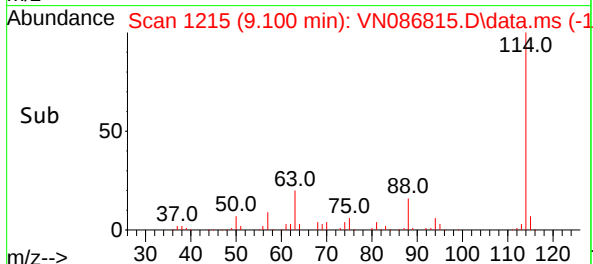
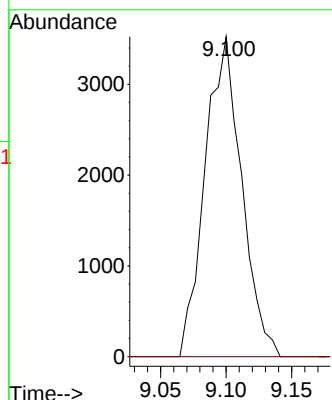
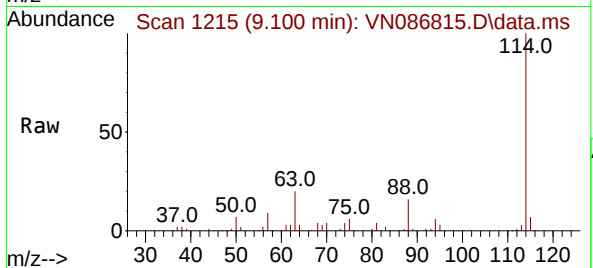
VN0529WBL01

Tgt Ion: 62 Resp: 6835

Ion Ratio Lower Upper

62 100

98 0.0 8.5 12.7#



#50

1,1,2-Trichloroethane

Concen: 3.749 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

Tgt Ion: 97 Resp: 8657

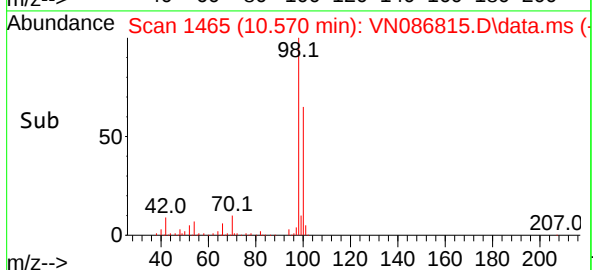
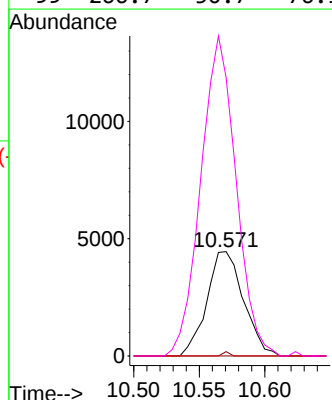
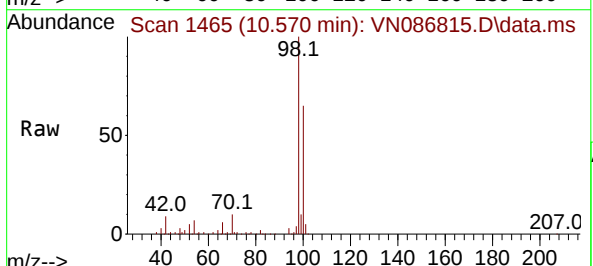
Ion Ratio Lower Upper

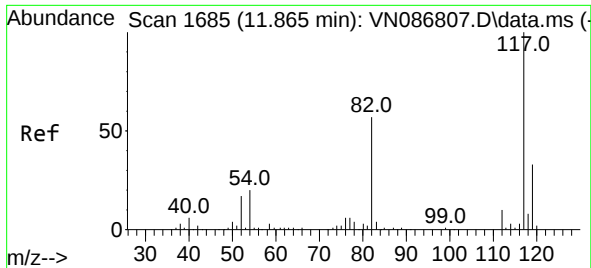
97 100

83 4.2 70.6 105.8#

85 0.0 46.8 70.2#

99 266.7 50.7 76.1#

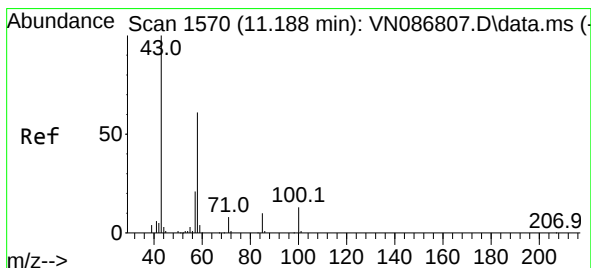
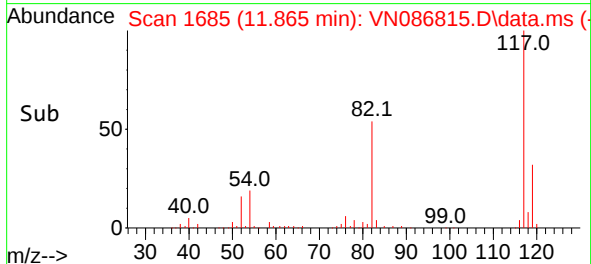
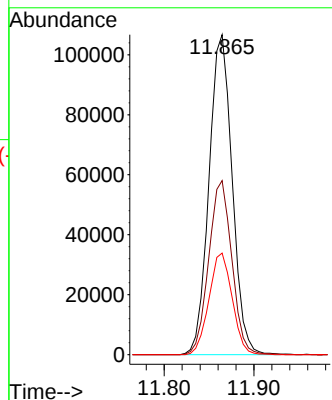
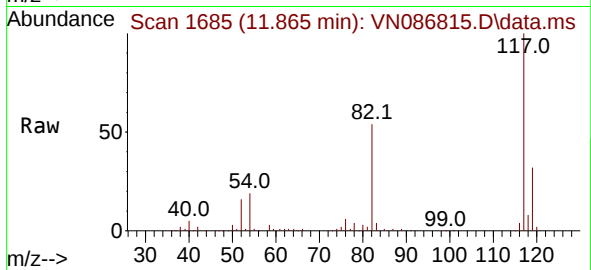




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

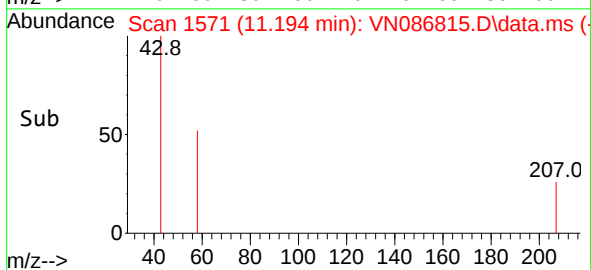
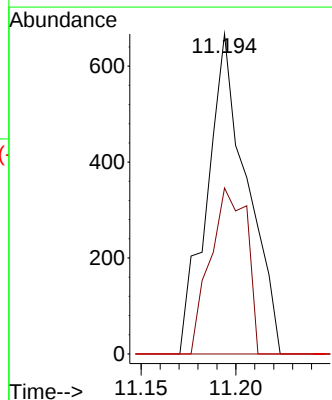
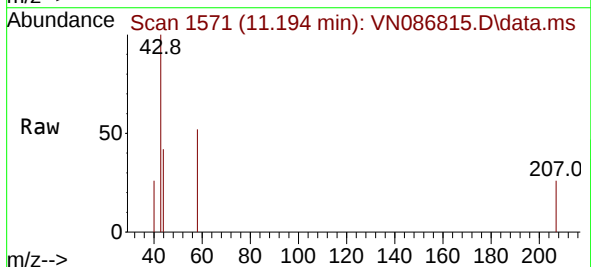
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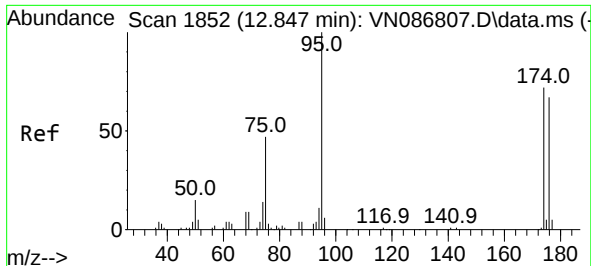
Tgt Ion:117 Resp: 191557
Ion Ratio Lower Upper
117 100
82 54.2 44.7 67.1
119 31.9 25.6 38.4



#59
2-Hexanone
Concen: 0.486 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Tgt Ion: 43 Resp: 978
Ion Ratio Lower Upper
43 100
58 47.5 49.1 73.7#
57 0.0 16.6 25.0#

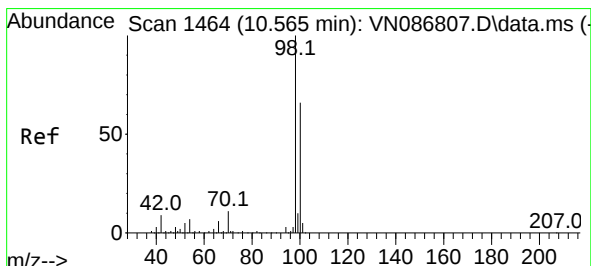
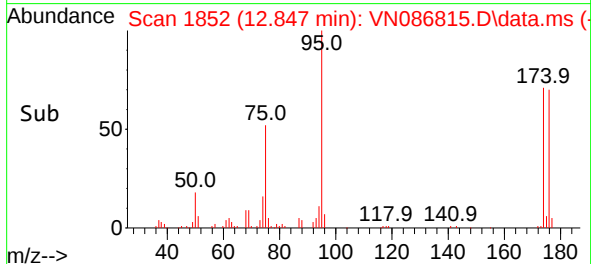
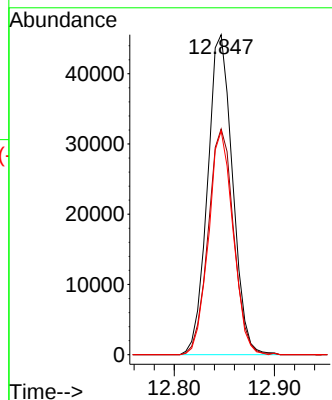
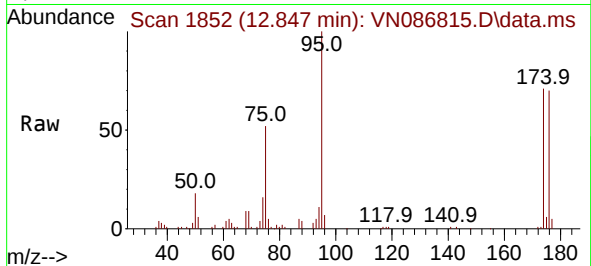




#60
4-Bromofluorobenzene
Concen: 26.281 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

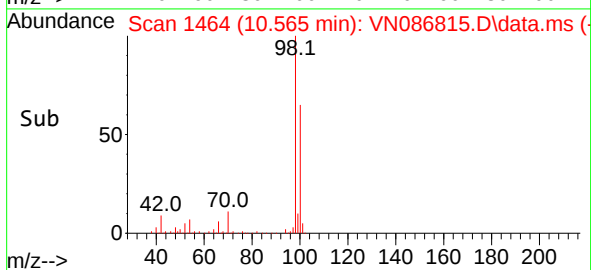
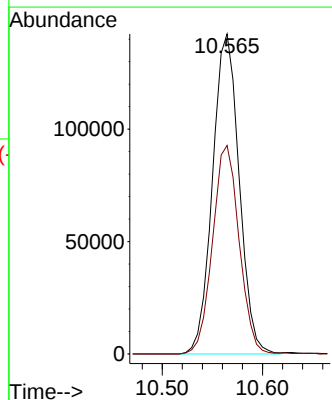
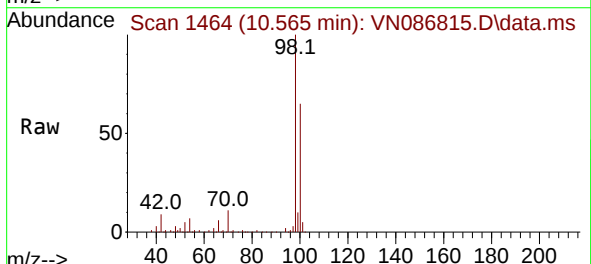
Instrument :
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VN0529WBL01

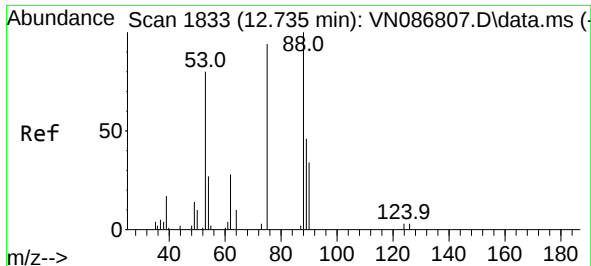
Tgt Ion: 95 Resp: 79039
Ion Ratio Lower Upper
95 100
174 71.9 56.2 84.4
176 68.5 53.4 80.0



#63
Toluene-d8
Concen: 29.814 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Tgt Ion: 98 Resp: 262130
Ion Ratio Lower Upper
98 100
100 65.0 52.7 79.1





#77

t-1,4-Dichloro-2-butene

Concen: 31.444 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

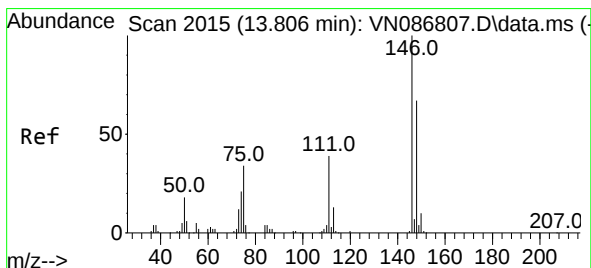
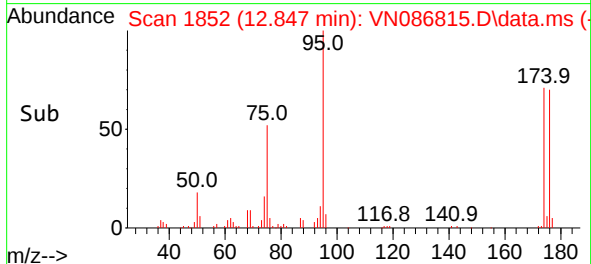
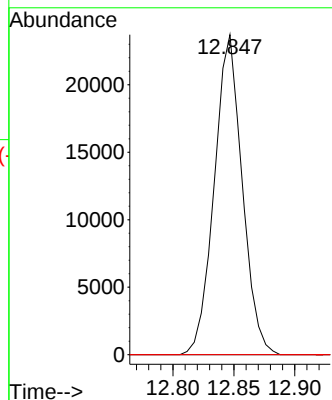
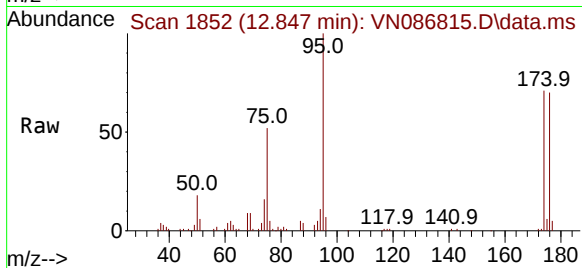
Tgt Ion: 75 Resp: 37847

Ion Ratio Lower Upper

75 100

53 0.0 43.0 128.8#

89 0.0 25.4 76.2#



#84

1,4-Dichlorobenzene

Concen: 0.244 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

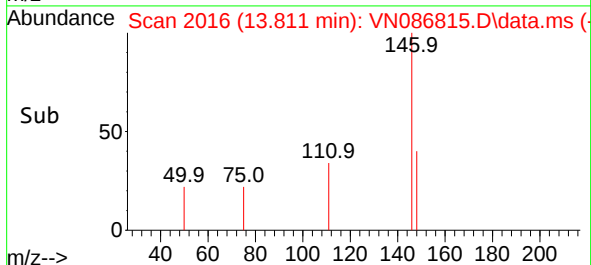
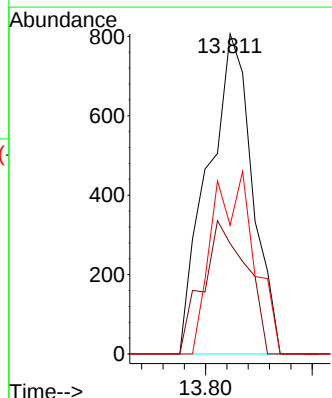
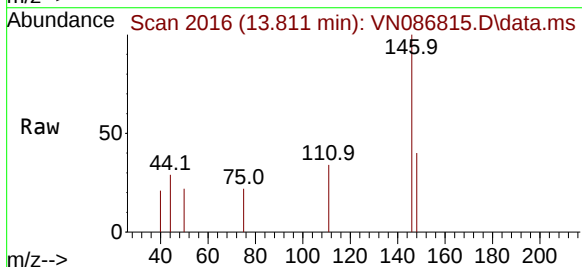
Tgt Ion: 146 Resp: 1171

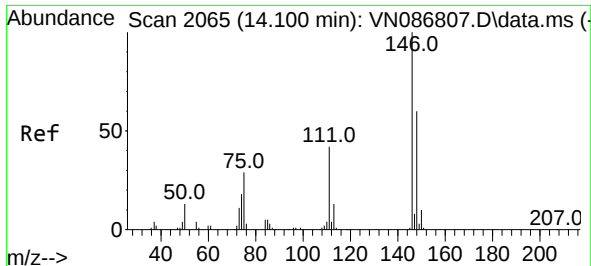
Ion Ratio Lower Upper

146 100

111 40.9 19.8 59.4

148 54.1 31.9 95.5





#87

1,2-Dichlorobenzene

Concen: 0.252 ug/l

RT: 13.811 min Scan# 2065

Delta R.T. -0.288 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

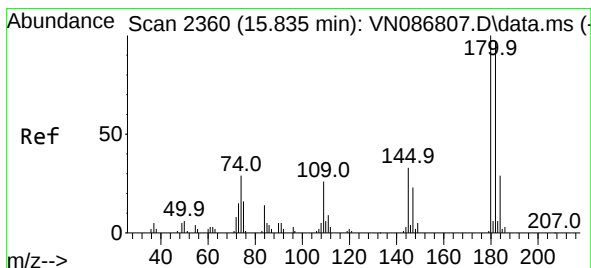
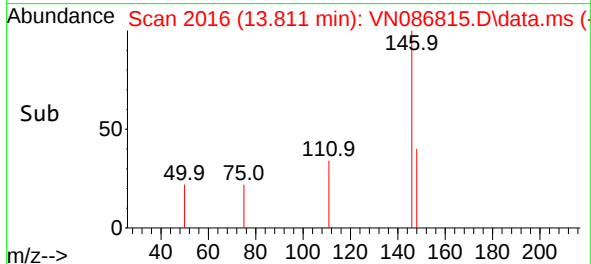
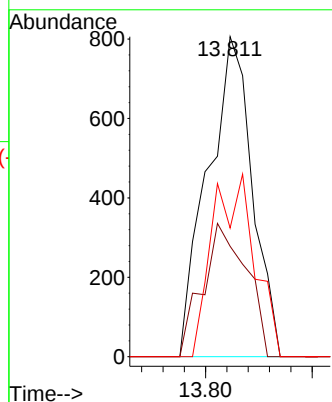
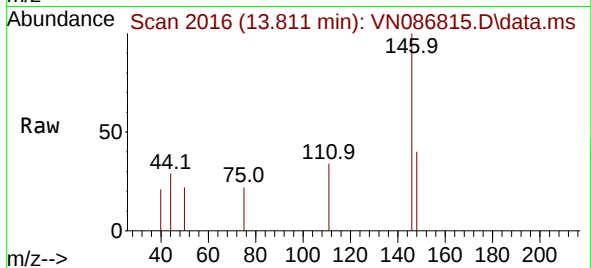
Tgt Ion:146 Resp: 1171

Ion Ratio Lower Upper

146 100

111 40.9 21.6 64.8

148 54.1 31.6 94.7



#89

1,2,4-Trichlorobenzene

Concen: 0.602 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN086815.D

Acq: 29 May 2025 14:55

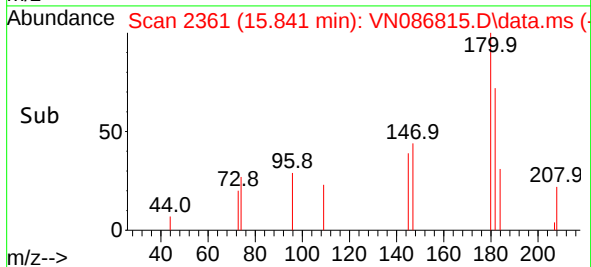
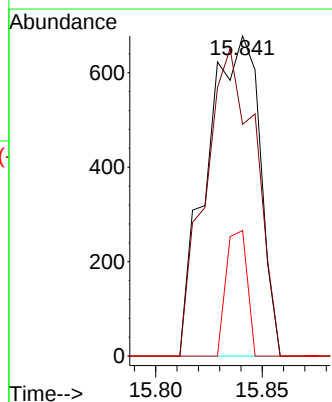
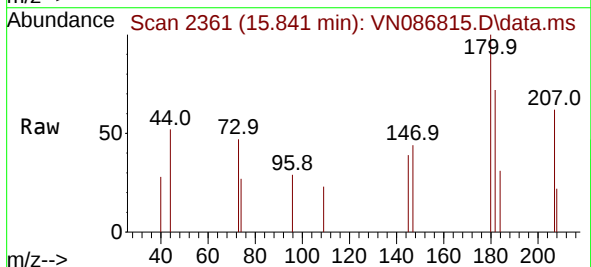
Tgt Ion:180 Resp: 1170

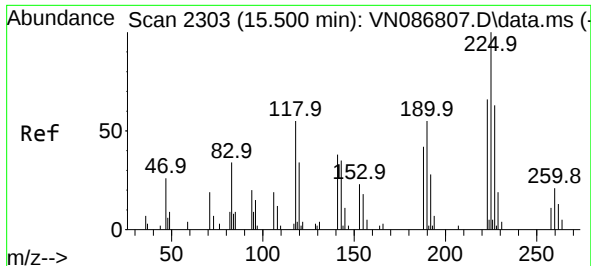
Ion Ratio Lower Upper

180 100

182 91.3 78.2 117.2

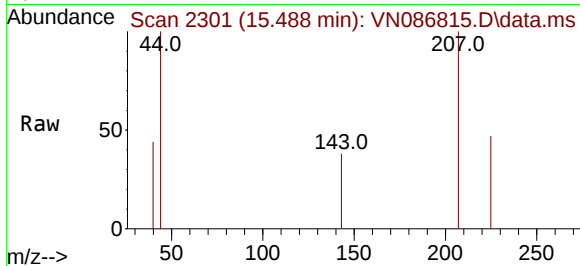
145 15.6 28.0 42.0#



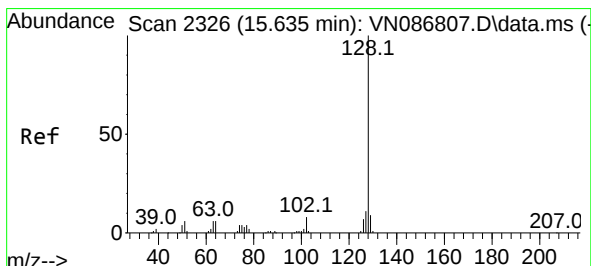
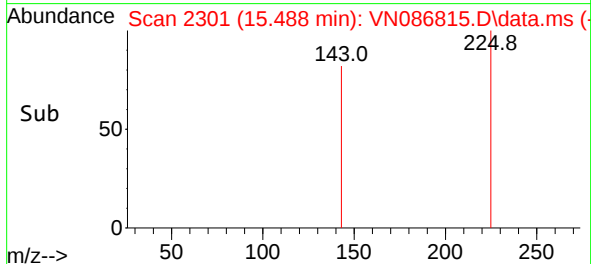
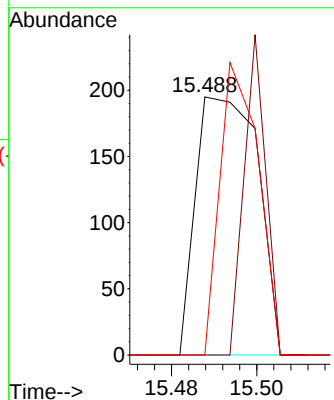


#90
Hexachlorobutadiene
Concen: 0.235 ug/l
RT: 15.488 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

Instrument :
MSVOA_N
ClientSampleId :
VN0529WBL01

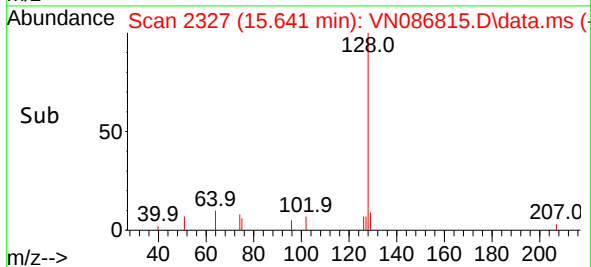
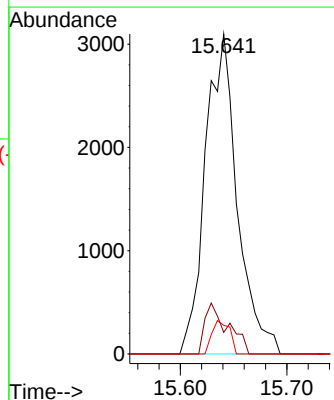
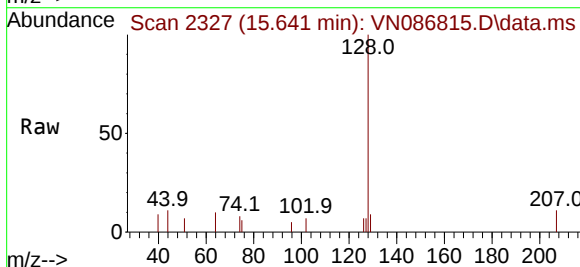


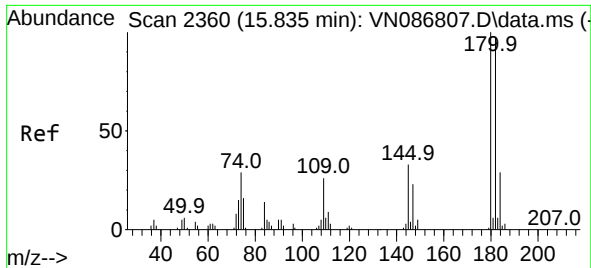
Tgt Ion:225 Resp: 196
Ion Ratio Lower Upper
225 100
223 0.0 0.0 135.8
227 70.4 0.0 125.0



#91
Naphthalene
Concen: 0.953 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086815.D
Acq: 29 May 2025 14:55

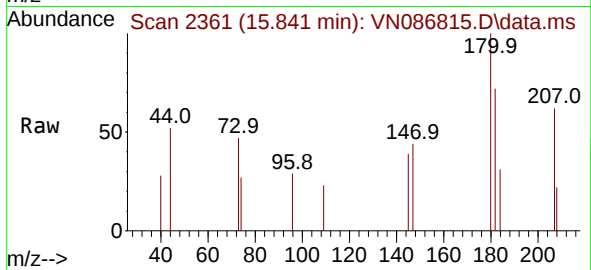
Tgt Ion:128 Resp: 6460
Ion Ratio Lower Upper
128 100
127 7.7 9.8 14.6#
129 5.7 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.602 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086815.D
 Acq: 29 May 2025 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBL01



Tgt Ion:180 Resp: 1170
 Ion Ratio Lower Upper
 180 100
 182 91.3 0.0 195.4
 145 15.6 0.0 70.0

