

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086633.D
 Acq On : 15 May 2025 10:12
 Operator : JC\MD
 Sample : VN0515WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0515WBL01

Quant Time: May 16 05:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

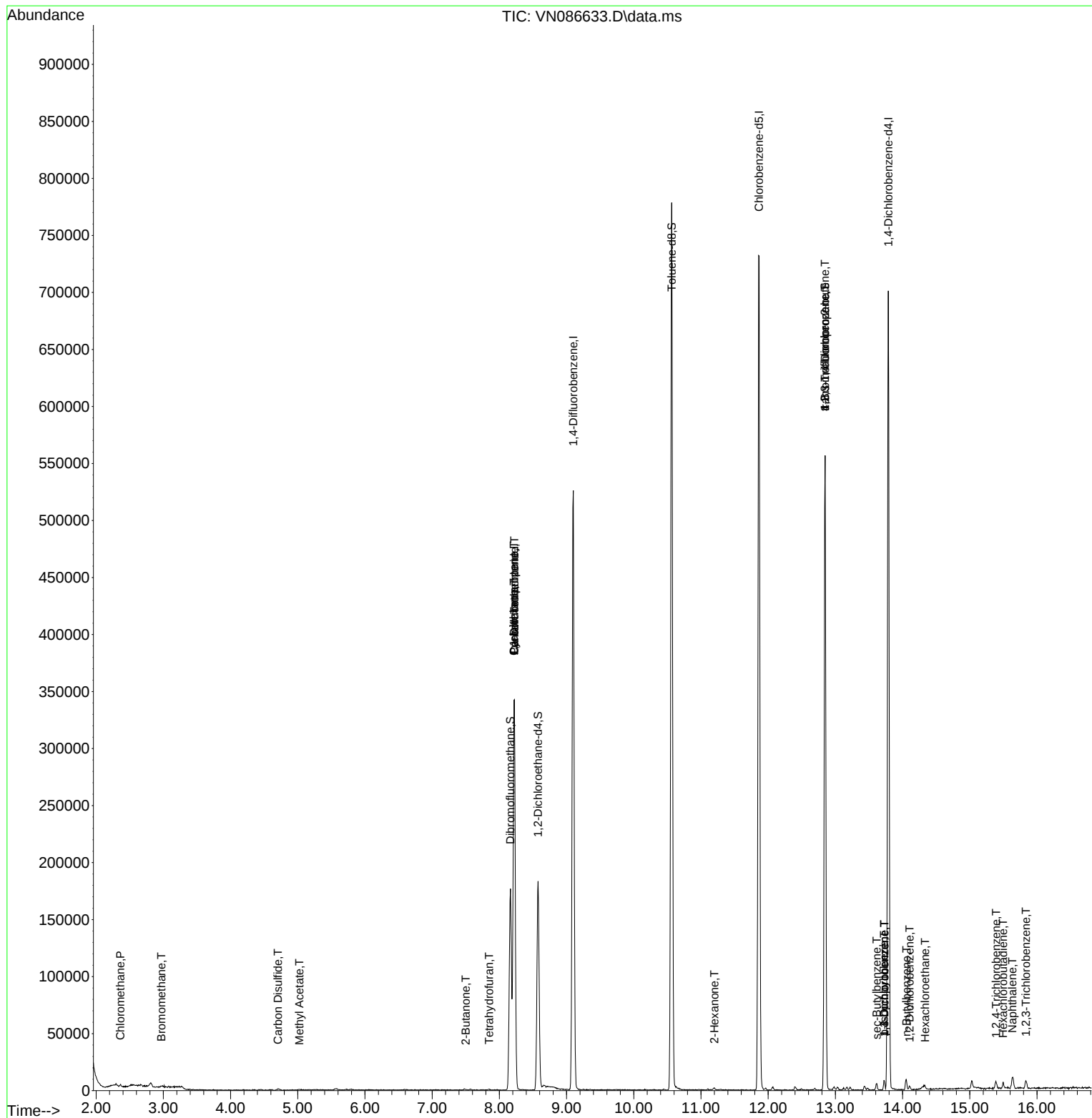
Internal Standards						
1) Pentafluorobenzene	8.224	168	265553	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	483022	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	464073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	199867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	155127	40.285	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	80.560%		
35) Dibromofluoromethane	8.165	113	131283	58.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	117.120%		
50) Toluene-d8	10.565	98	558278	46.597	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.200%		
62) 4-Bromofluorobenzene	12.847	95	207355	47.450	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.900%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1411	0.308	ug/l #	80
5) Bromomethane	2.971	94	839	0.427	ug/l #	74
13) Acrolein	4.189	56	182	Below Cal	#	49
16) Acetone	4.447	43	1141	Below Cal	#	43
17) Carbon Disulfide	4.706	76	2333	0.249	ug/l #	74
18) Methyl Acetate	5.024	43	1095	0.237	ug/l #	51
25) 2-Butanone	7.500	43	732	0.305	ug/l #	48
29) Tetrahydrofuran	7.847	42	666	0.416	ug/l #	39
31) Cyclohexane	8.218	56	5479	0.878	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	20275	4.528	ug/l #	50
38) Carbon Tetrachloride	8.224	117	26081	6.116	ug/l #	16
43) Isopropyl Acetate	8.659	43	2267	Below Cal	#	55
59) 2-Hexanone	11.200	43	1586	0.443	ug/l	77
76) 1,2,3-Trichloropropane	12.847	75	101925	21.610	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	101925	51.899	ug/l #	10
85) sec-Butylbenzene	13.617	105	5057	0.314	ug/l	92
86) p-Isopropyltoluene	13.723	119	3713	0.280	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	1628	0.239	ug/l	94
88) 1,4-Dichlorobenzene	13.729	146	1628	0.237	ug/l	94
89) n-Butylbenzene	14.059	91	5662	0.482	ug/l	93
90) Hexachloroethane	14.335	117	496	0.222	ug/l	62
91) 1,2-Dichlorobenzene	14.106	146	1580	0.239	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	2386	0.755	ug/l	86
94) Hexachlorobutadiene	15.494	225	1082	0.907	ug/l	88
95) Naphthalene	15.635	128	12400	1.106	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	2907	0.971	ug/l	95

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

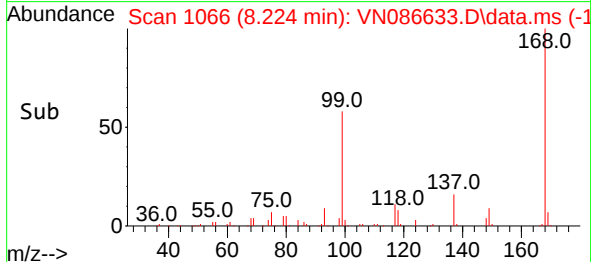
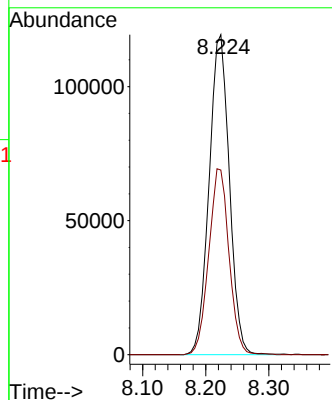
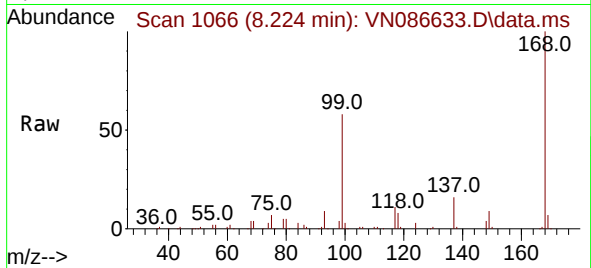




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

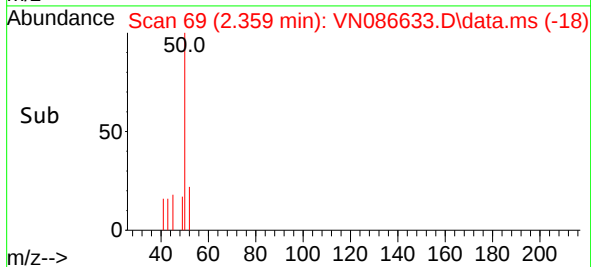
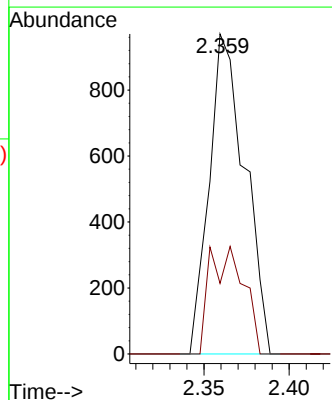
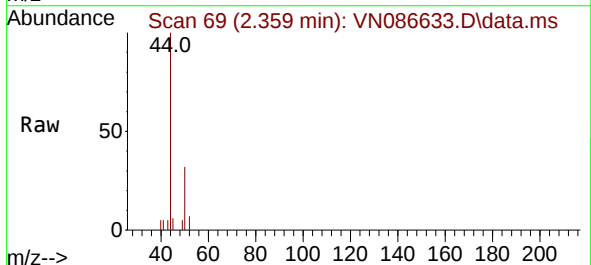
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

Tgt Ion:168 Resp: 265553
Ion Ratio Lower Upper
168 100
99 57.7 52.5 78.7



#3
Chloromethane
Concen: 0.308 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 50 Resp: 1411
Ion Ratio Lower Upper
50 100
52 22.1 26.5 39.7#

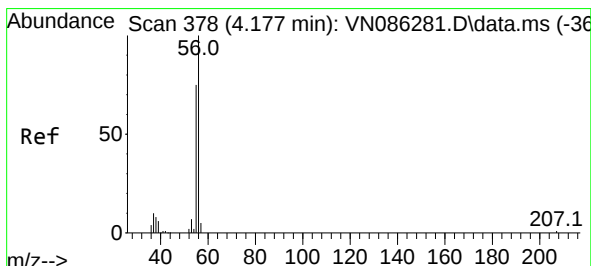
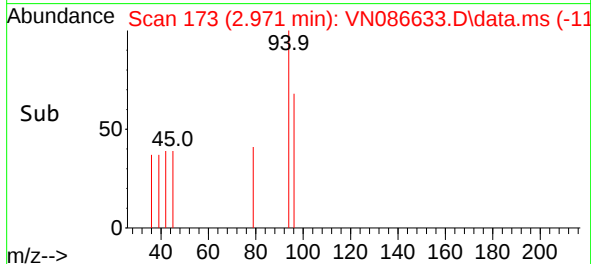
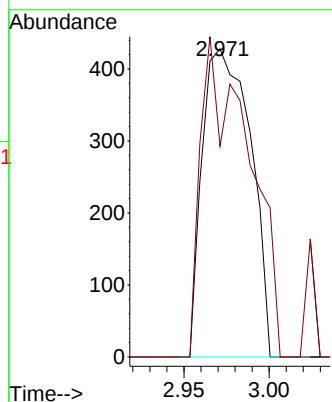
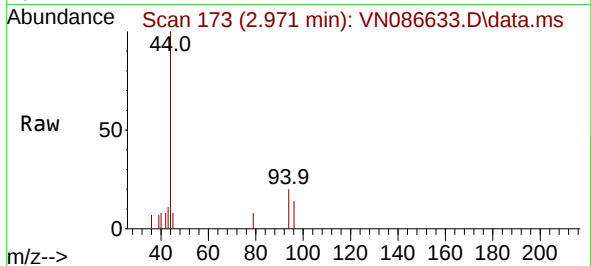




#5
Bromomethane
Concen: 0.427 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

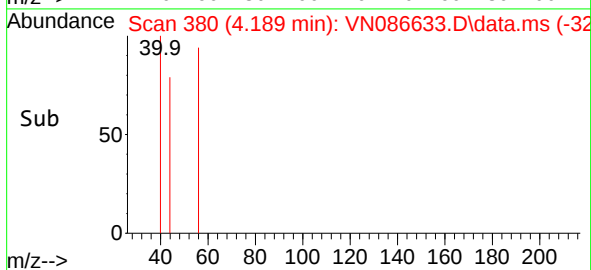
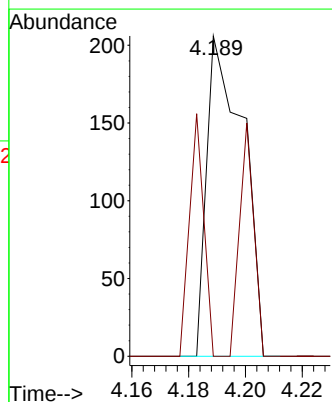
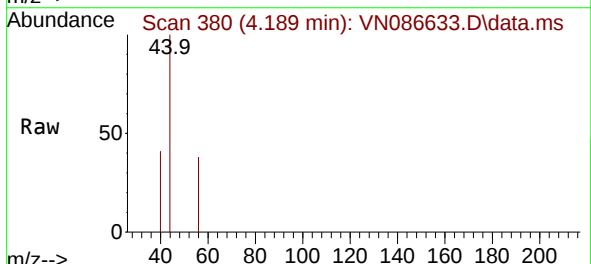
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

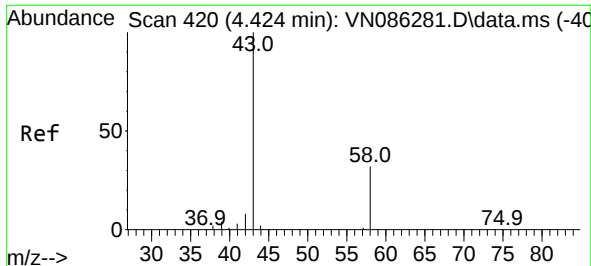
Tgt Ion: 94 Resp: 839
Ion Ratio Lower Upper
94 100
96 68.5 75.2 112.8#



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 56 Resp: 182
Ion Ratio Lower Upper
56 100
55 30.2 58.5 87.7#

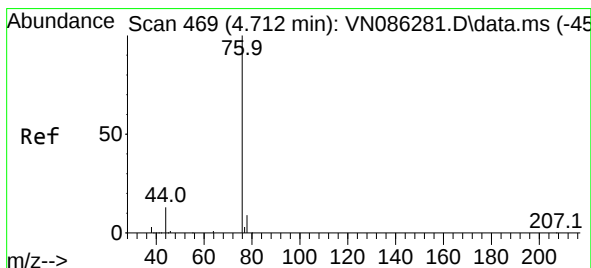
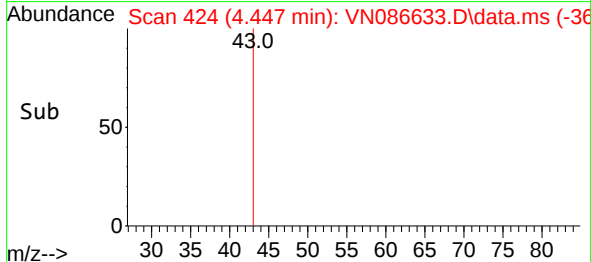
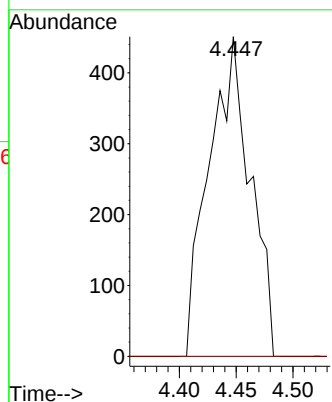
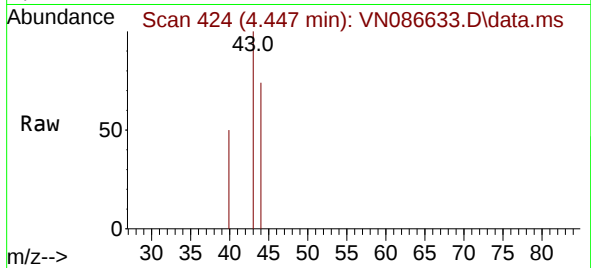




#16
Acetone
Concen: Below Cal
RT: 4.447 min Scan# 41
Delta R.T. 0.023 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

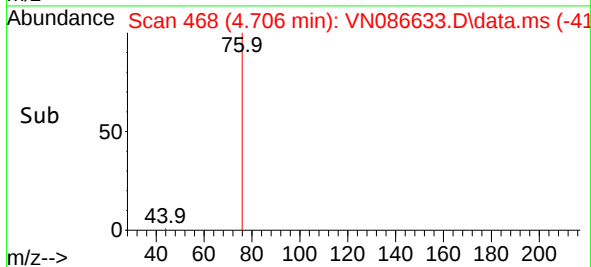
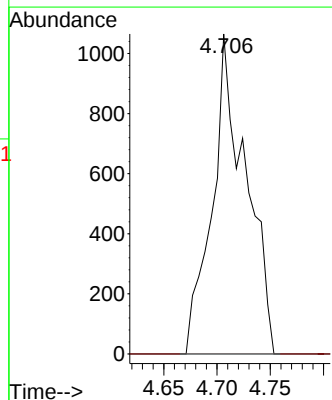
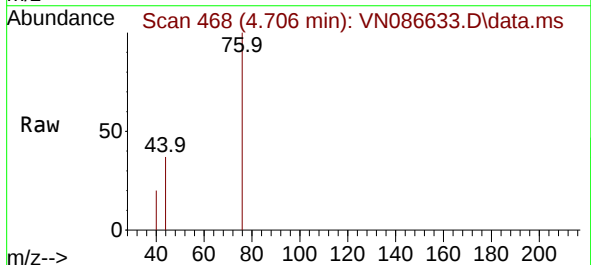
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

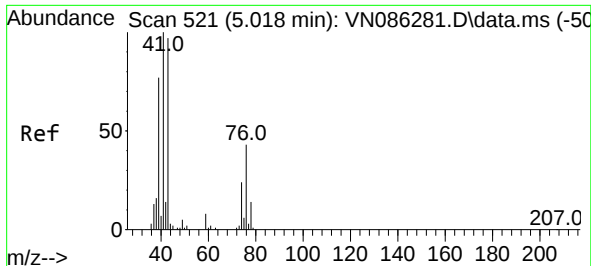
Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 0.0 25.3 37.9#



#17
Carbon Disulfide
Concen: 0.249 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

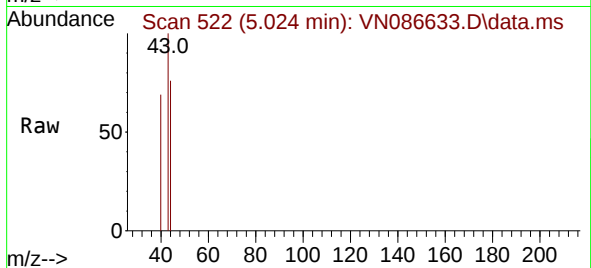
Tgt Ion: 76 Resp: 2333
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



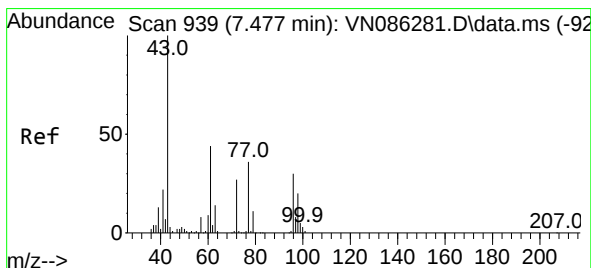
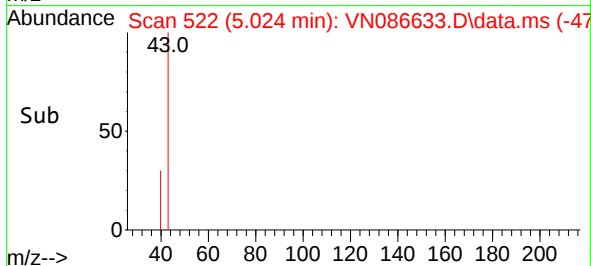
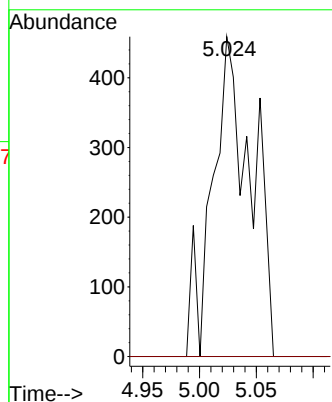


#18
Methyl Acetate
Concen: 0.237 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

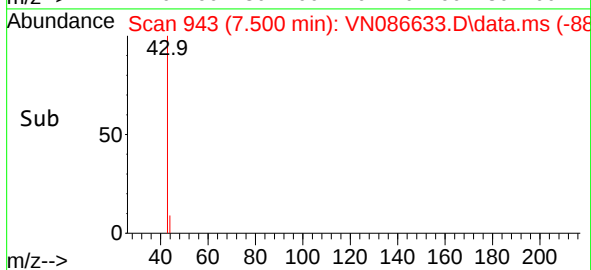
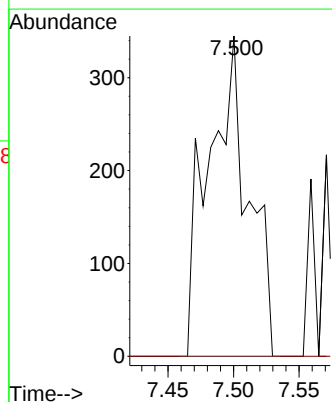
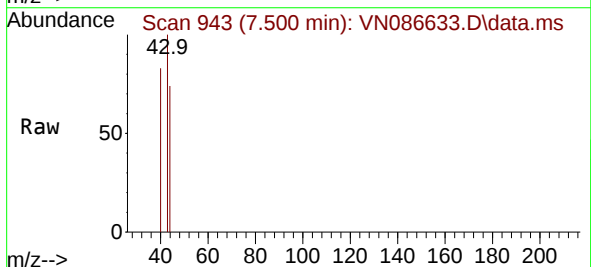


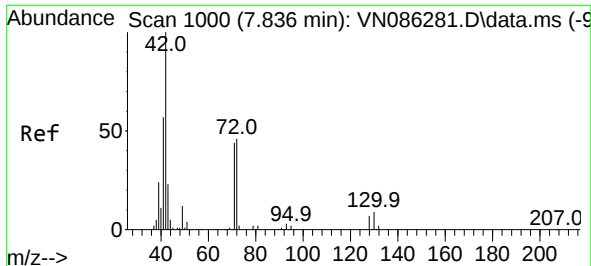
Tgt Ion: 43 Resp: 1095
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#25
2-Butanone
Concen: 0.305 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.024 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 43 Resp: 732
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.416 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086633.D

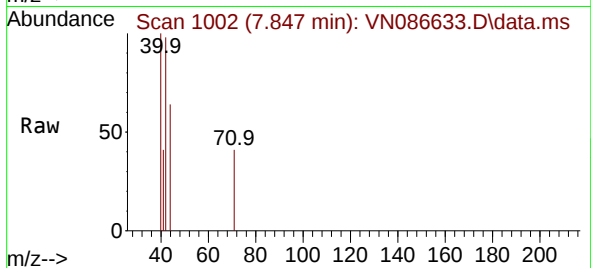
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Instrument :

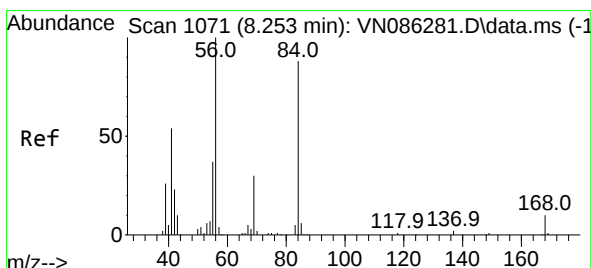
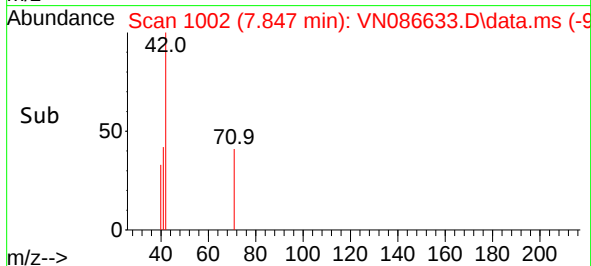
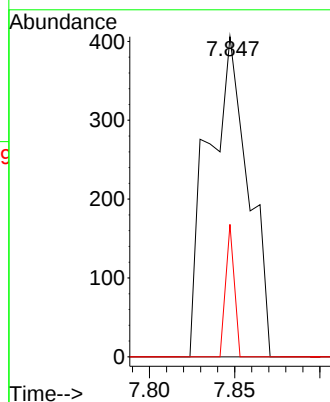
MSVOA_N

ClientSampleId :

VN0515WBL01



Tgt Ion:	42	Resp:	666
Ion Ratio	100	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	8.9	34.0	51.0#



#31

Cyclohexane

Concen: 0.878 ug/l

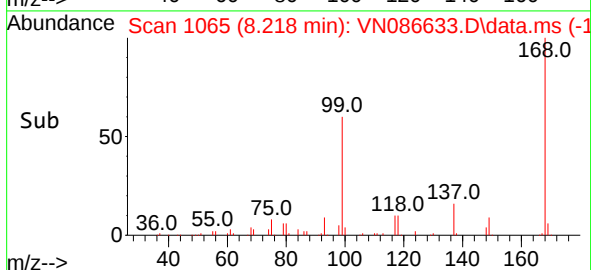
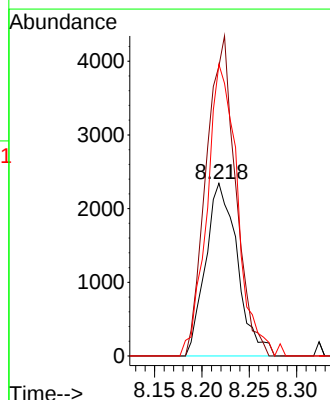
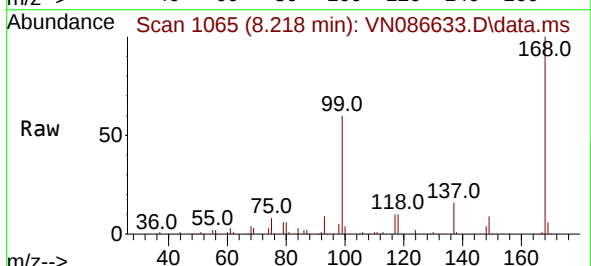
RT: 8.218 min Scan# 1065

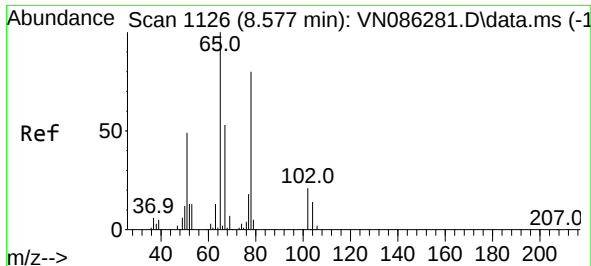
Delta R.T. -0.035 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

Tgt Ion:	56	Resp:	5479
Ion Ratio	100	Lower	Upper
56	100		
69	167.9	24.2	36.2#
84	168.8	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 40.285 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086633.D

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Instrument :

MSVOA_N

ClientSampleId :

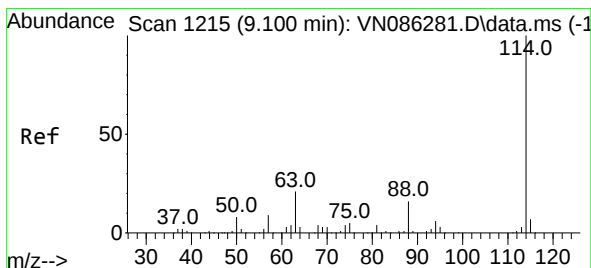
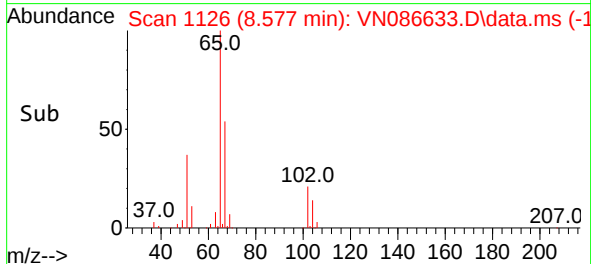
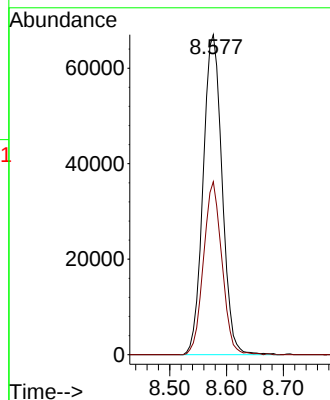
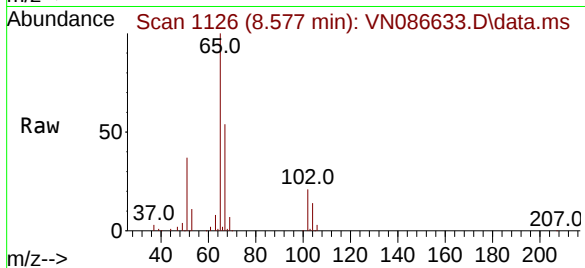
VN0515WBL01

Tgt Ion: 65 Resp: 155127

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

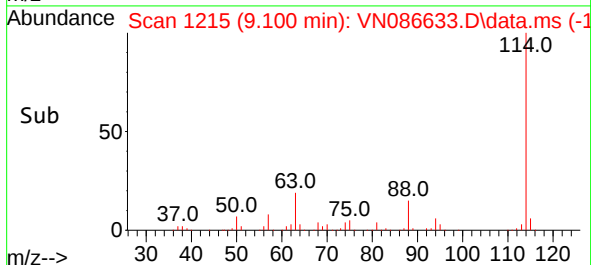
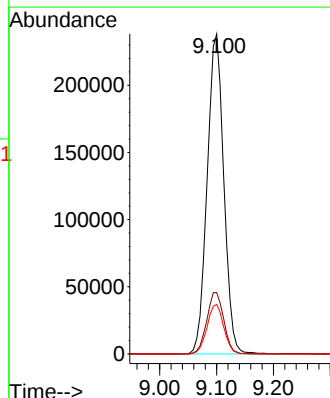
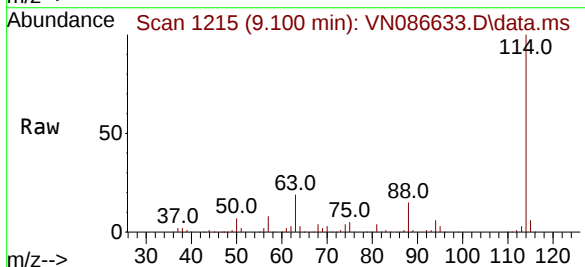
Tgt Ion: 114 Resp: 483022

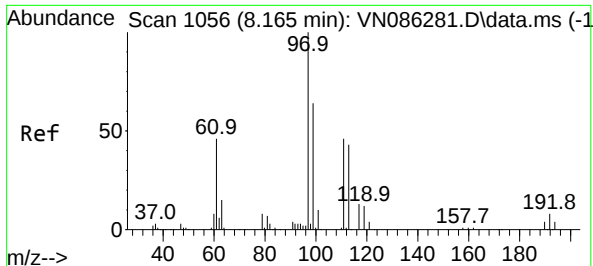
Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 58.562 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

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MSVOA_N

ClientSampleId :

VN0515WBL01

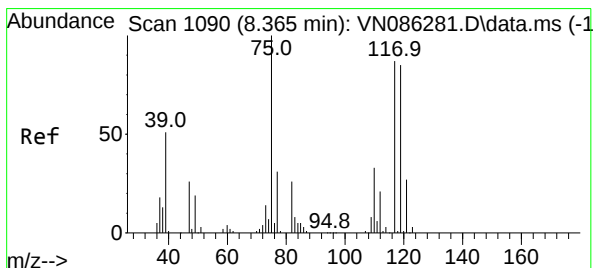
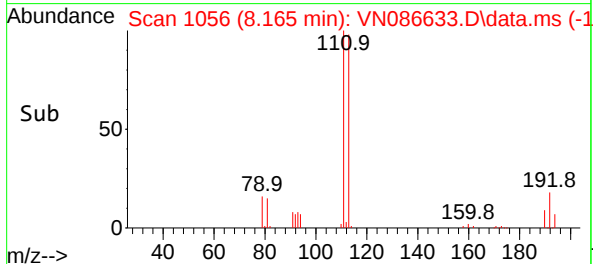
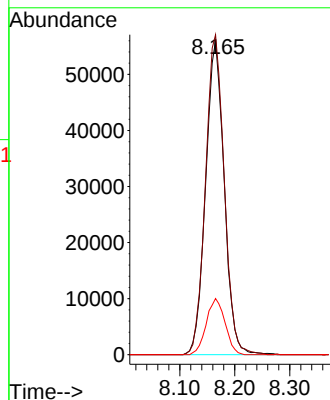
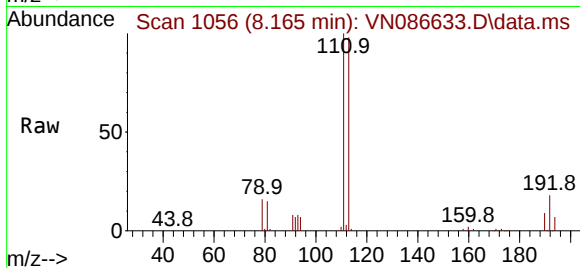
Tgt Ion:113 Resp: 131283

Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.0

192 18.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.528 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

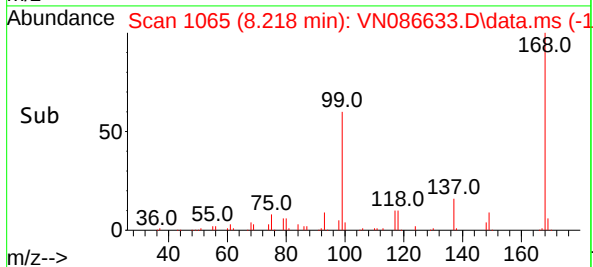
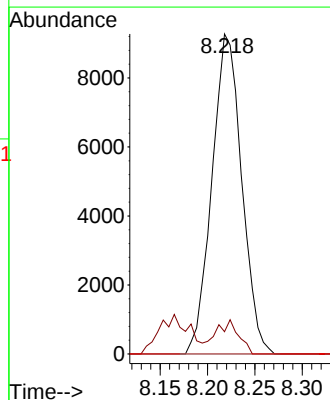
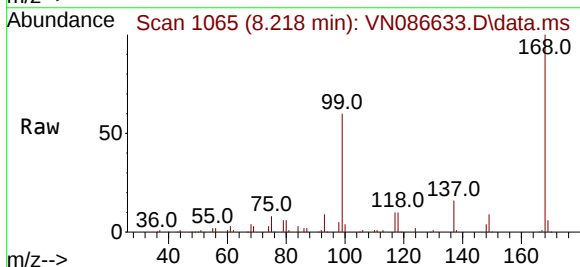
Tgt Ion: 75 Resp: 20275

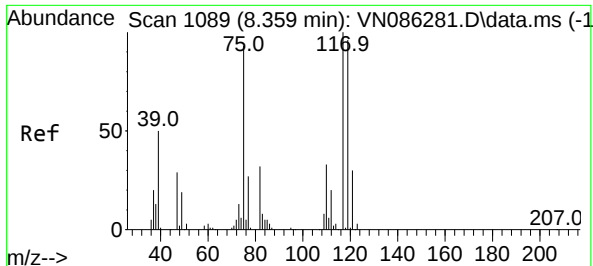
Ion Ratio Lower Upper

75 100

110 8.3 16.8 50.4#

77 0.0 24.9 37.3#

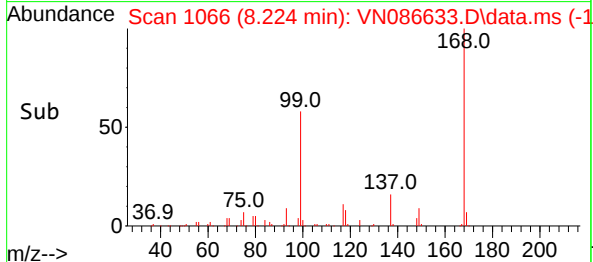
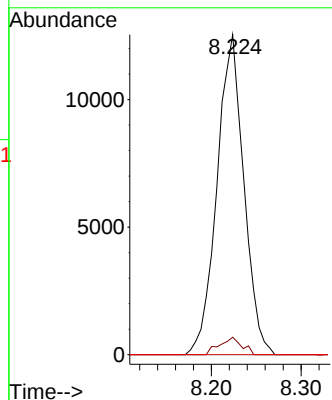
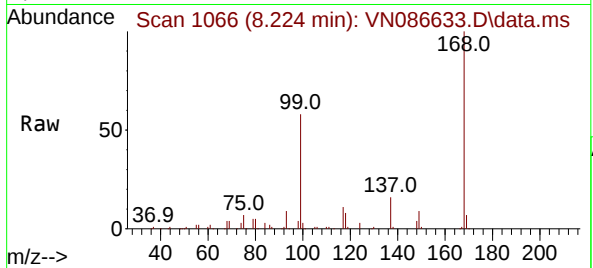




#38
Carbon Tetrachloride
Concen: 6.116 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

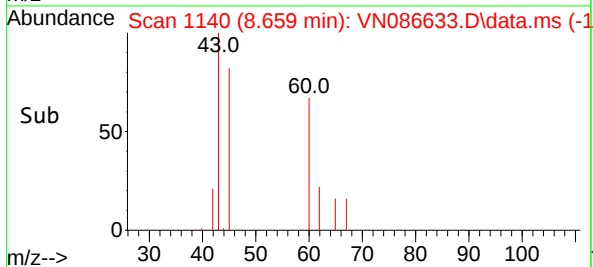
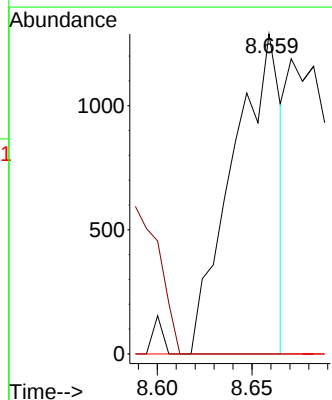
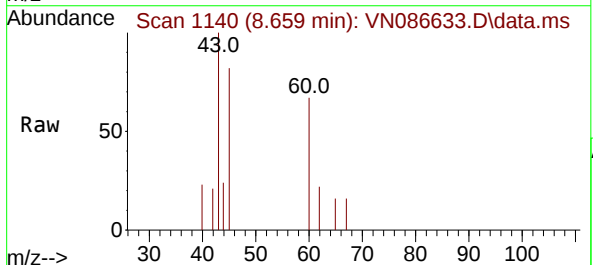
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

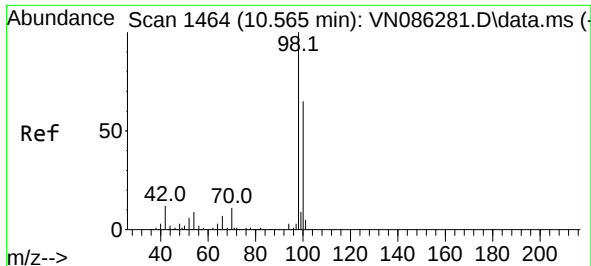
Tgt Ion:117 Resp: 26081
Ion Ratio Lower Upper
117 100
119 5.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.659 min Scan# 1140
Delta R.T. -0.024 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 43 Resp: 2267
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#
87 0.0 10.5 15.7#

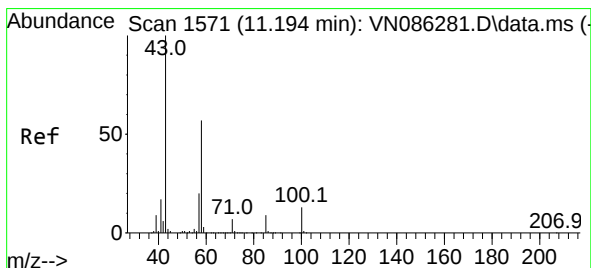
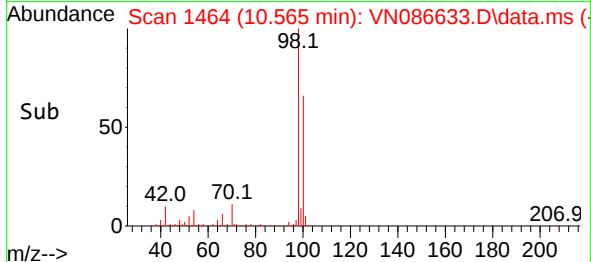
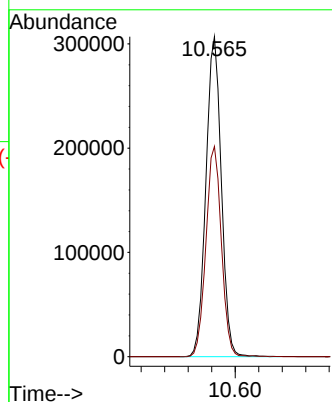
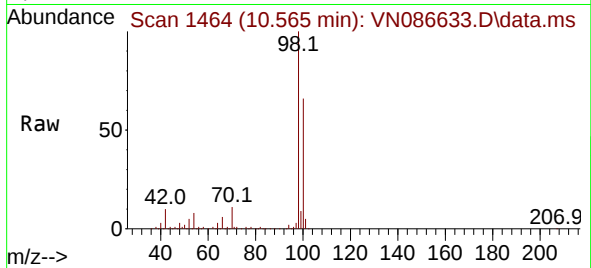




#50
Toluene-d8
Concen: 46.597 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

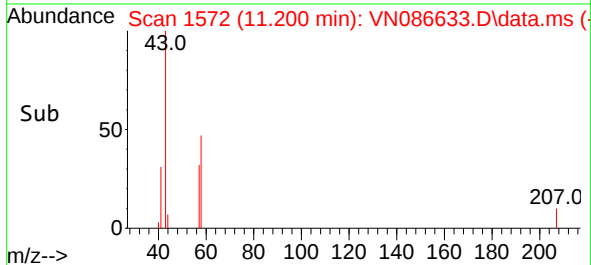
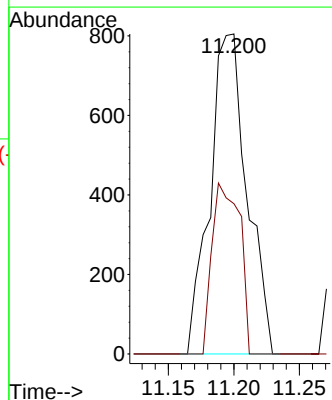
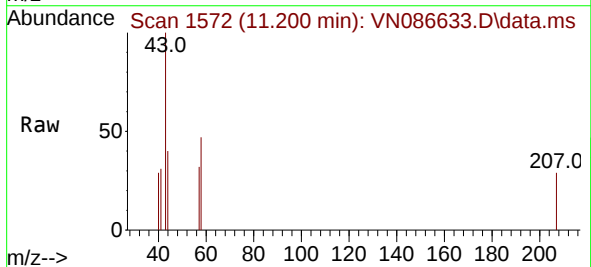
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

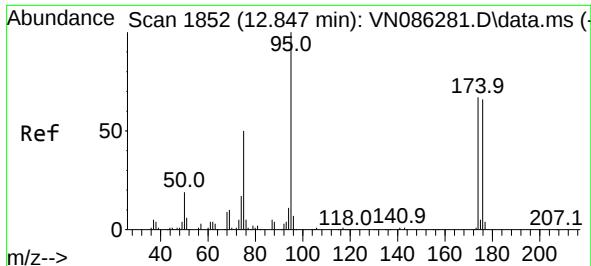
Tgt Ion: 98 Resp: 558278
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#59
2-Hexanone
Concen: 0.443 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 43 Resp: 1586
Ion Ratio Lower Upper
43 100
58 39.9 28.3 85.0

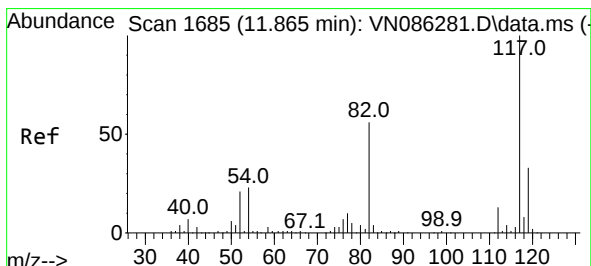
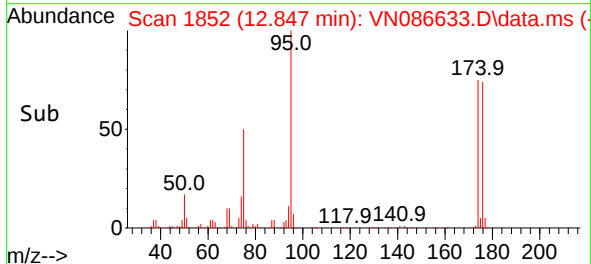
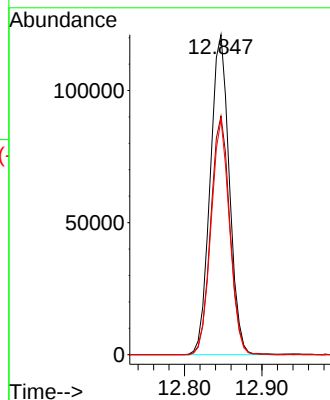
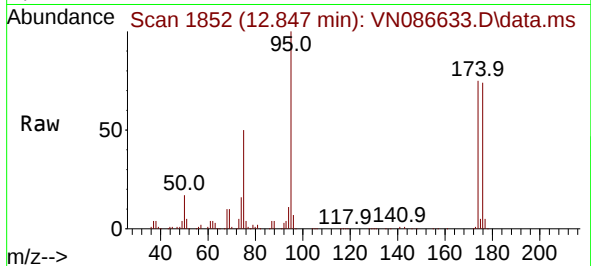




#62
4-Bromofluorobenzene
Concen: 47.450 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

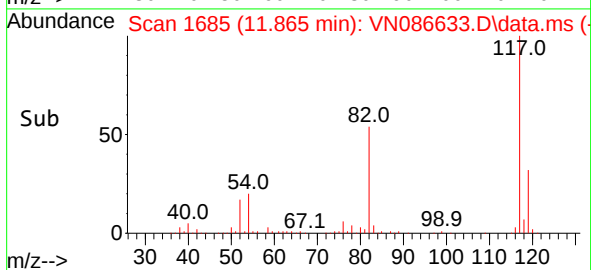
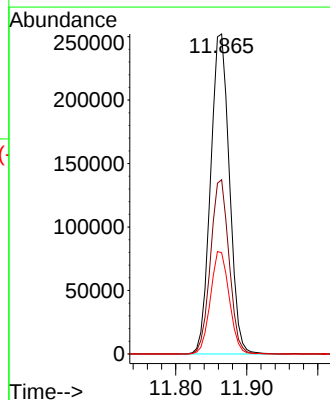
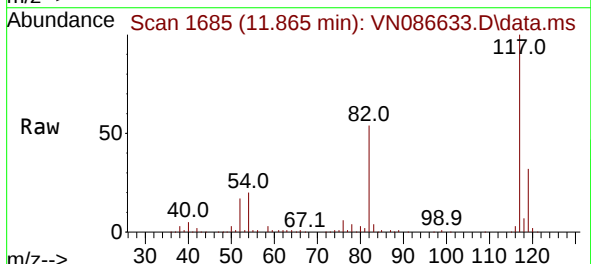
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

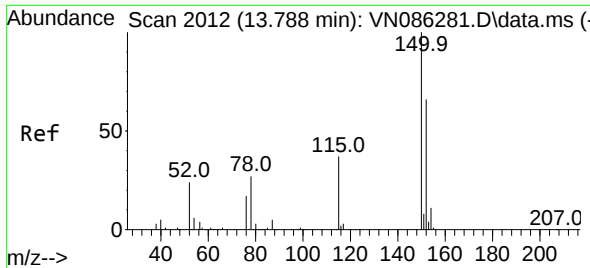
Tgt Ion: 95 Resp: 207355
Ion Ratio Lower Upper
95 100
174 74.4 0.0 133.4
176 71.0 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 117 Resp: 464073
Ion Ratio Lower Upper
117 100
82 54.4 44.7 67.1
119 31.7 26.4 39.6

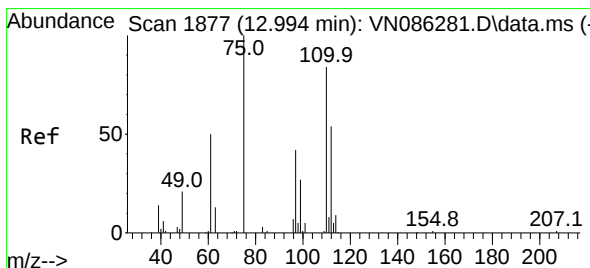
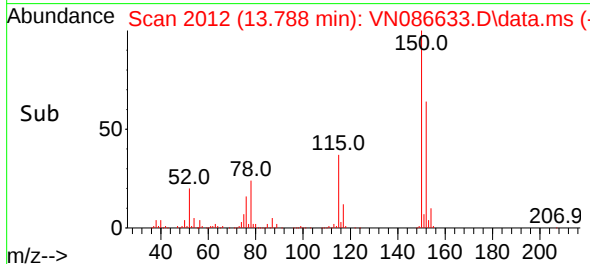
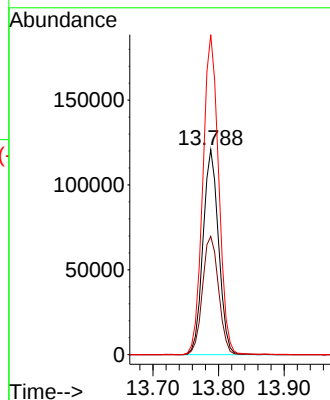
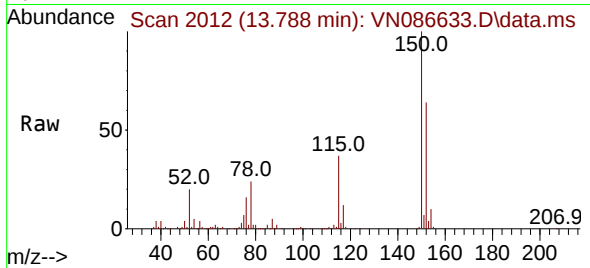




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086633.D
 Acq: 15 May 2025 10:12

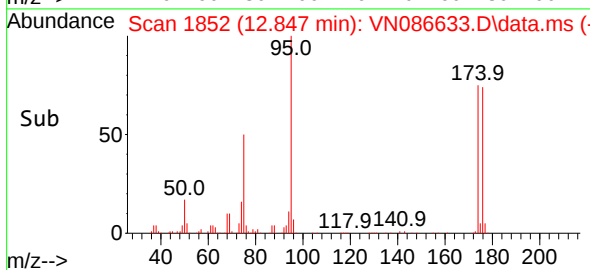
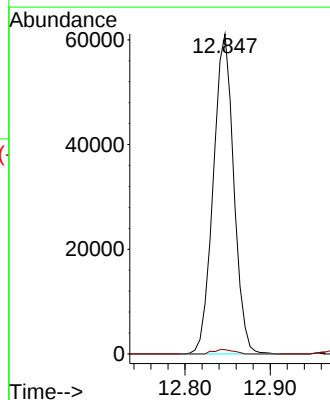
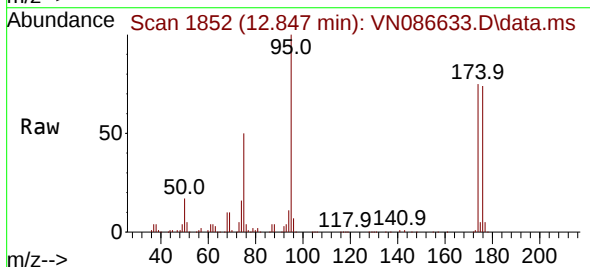
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0515WBL01

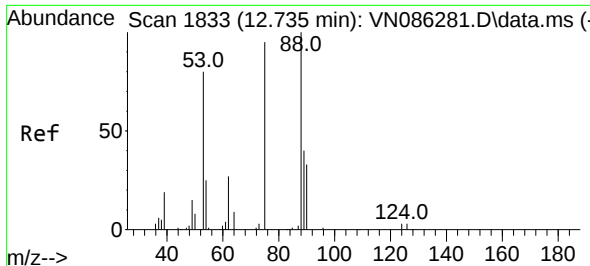
Tgt Ion:152 Resp: 199867
 Ion Ratio Lower Upper
 152 100
 115 59.9 31.9 95.9
 150 158.6 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 21.610 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086633.D
 Acq: 15 May 2025 10:12

Tgt Ion: 75 Resp: 101925
 Ion Ratio Lower Upper
 75 100
 77 1.4 98.8 296.4#

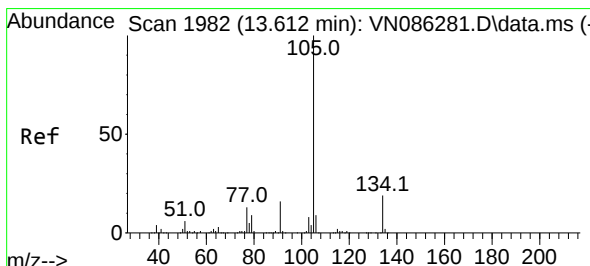
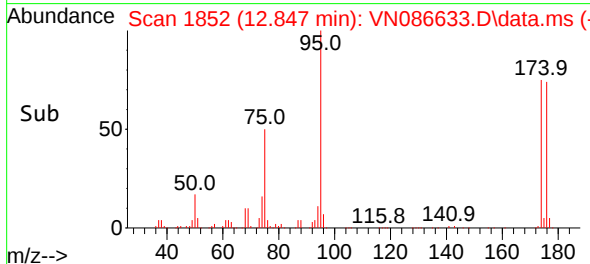
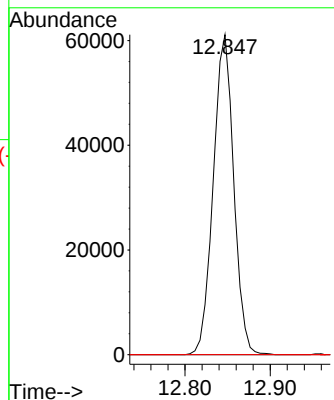
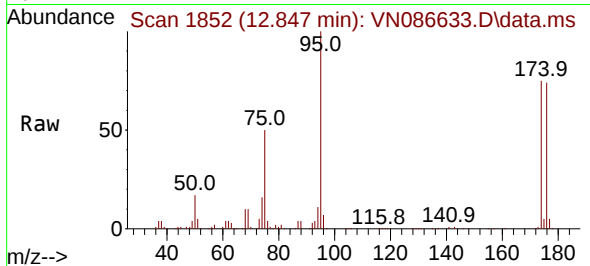




#81
trans-1,4-Dichloro-2-butene
Concen: 51.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

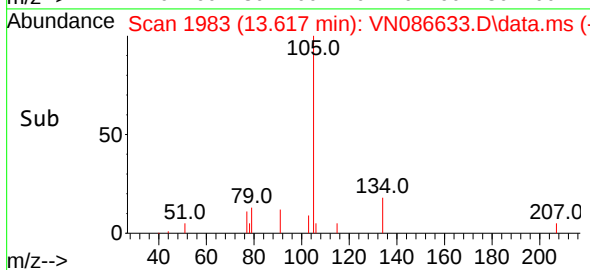
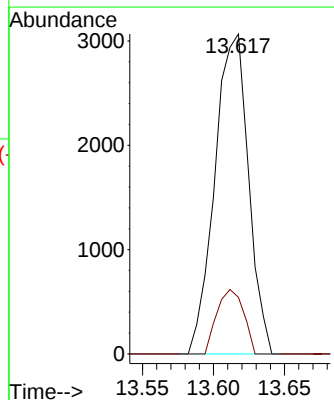
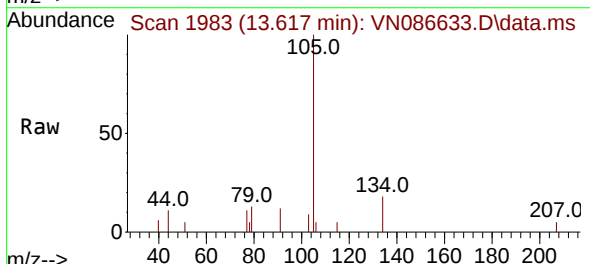
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

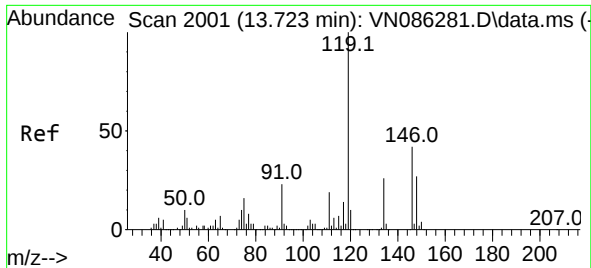
Tgt Ion: 75 Resp: 101925
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#85
sec-Butylbenzene
Concen: 0.314 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion:105 Resp: 5057
Ion Ratio Lower Upper
105 100
134 16.0 9.7 29.1

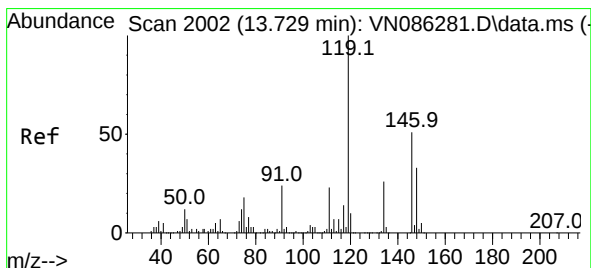
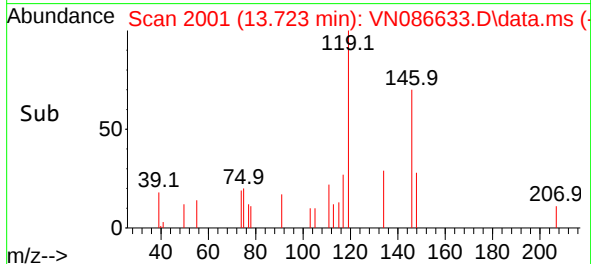
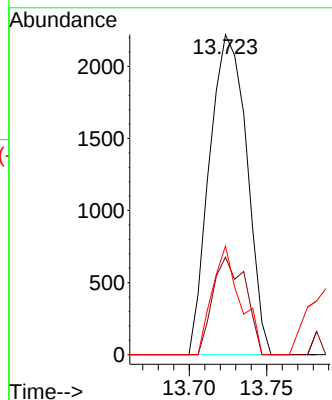
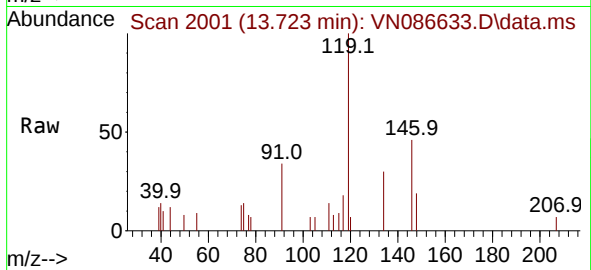




#86
p-Isopropyltoluene
Concen: 0.280 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

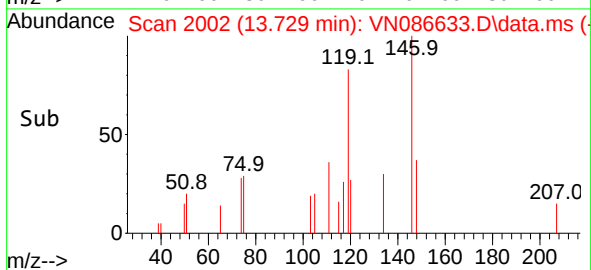
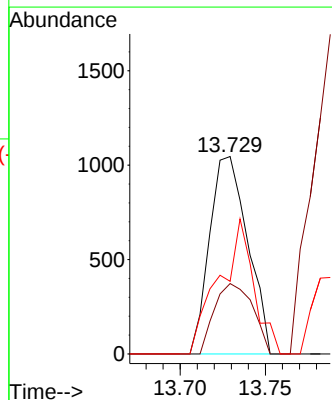
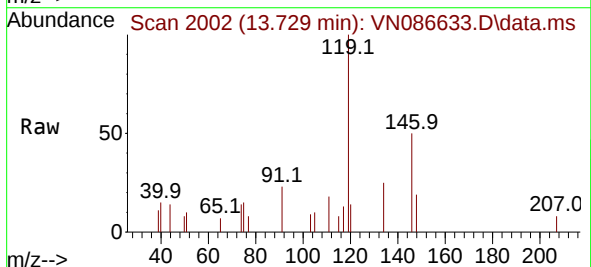
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

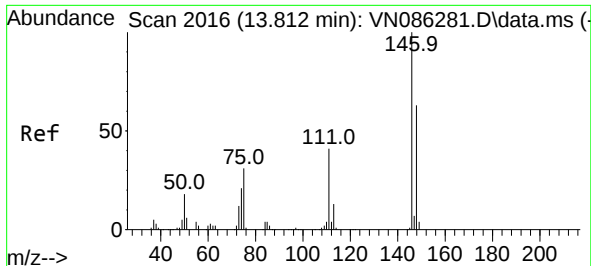
Tgt Ion:	119	Resp:	3713
Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.1	39.1
91	25.6	11.9	35.9



#87
1,3-Dichlorobenzene
Concen: 0.239 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion:	146	Resp:	1628
Ion	Ratio	Lower	Upper
146	100		
111	35.7	21.9	65.7
148	62.2	31.9	95.5

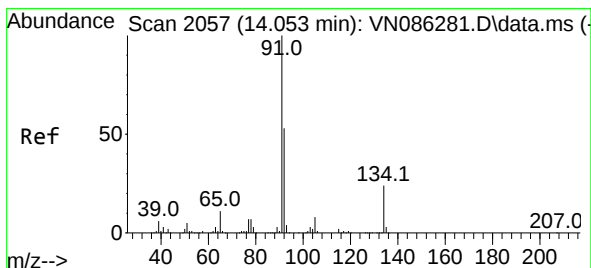
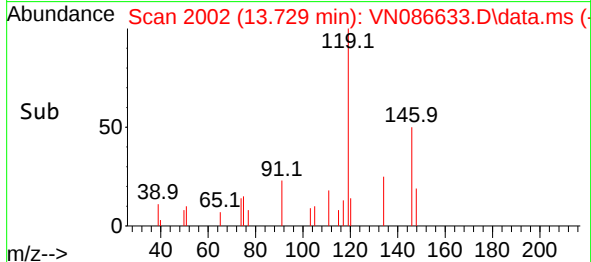
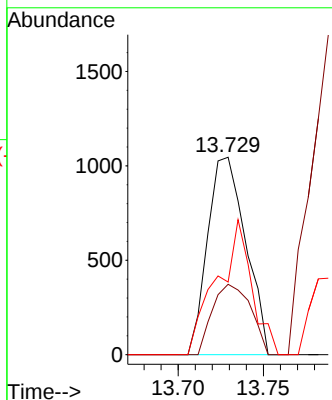
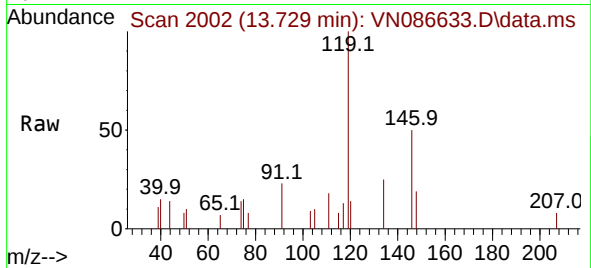




#88
1,4-Dichlorobenzene
Concen: 0.237 ug/l
RT: 13.729 min Scan# 2016
Delta R.T. -0.082 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

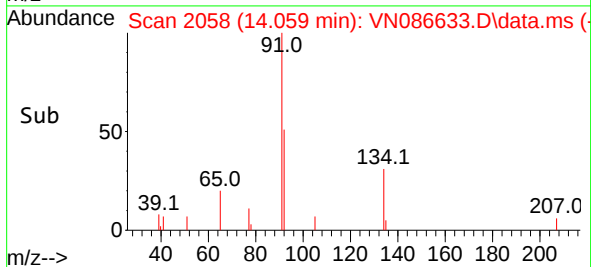
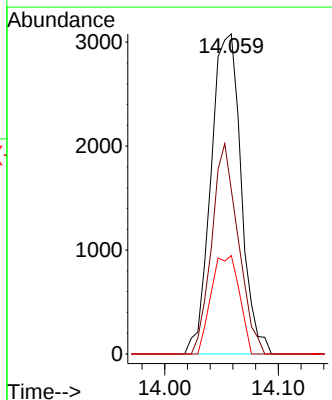
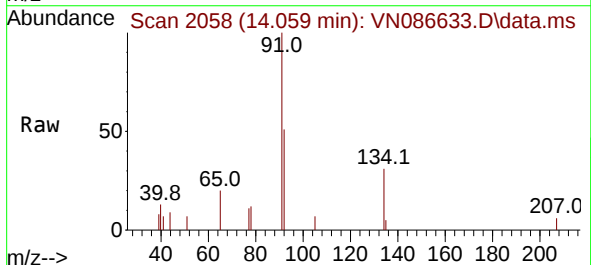
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

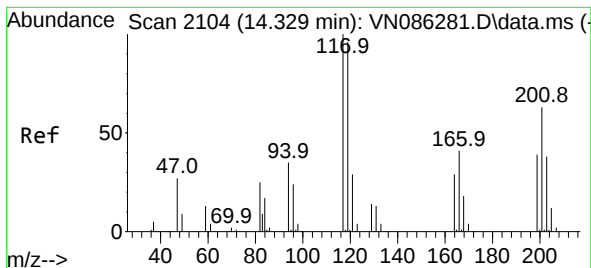
Tgt Ion:146 Resp: 1628
Ion Ratio Lower Upper
146 100
111 35.7 21.3 63.9
148 62.2 31.9 95.9



#89
n-Butylbenzene
Concen: 0.482 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion: 91 Resp: 5662
Ion Ratio Lower Upper
91 100
92 57.8 26.8 80.4
134 28.7 12.2 36.6





#90

Hexachloroethane

Concen: 0.222 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

Instrument :

MSVOA_N

ClientSampleId :

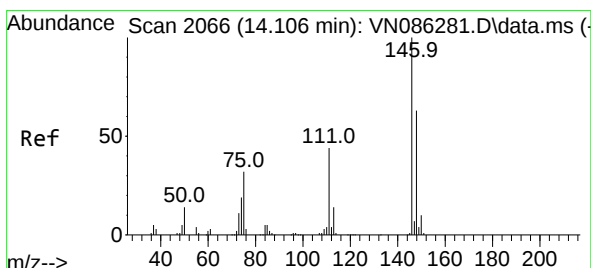
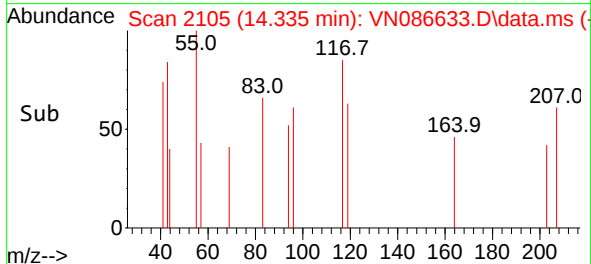
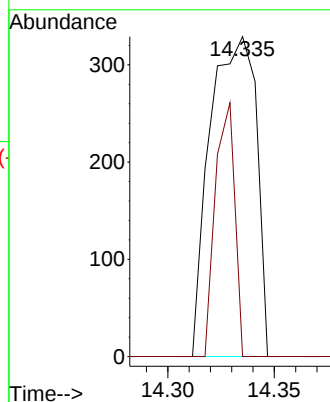
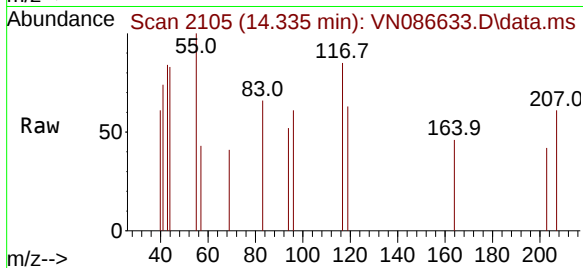
VN0515WBL01

Tgt Ion:117 Resp: 496

Ion Ratio Lower Upper

117 100

201 33.3 31.4 94.2



#91

1,2-Dichlorobenzene

Concen: 0.239 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

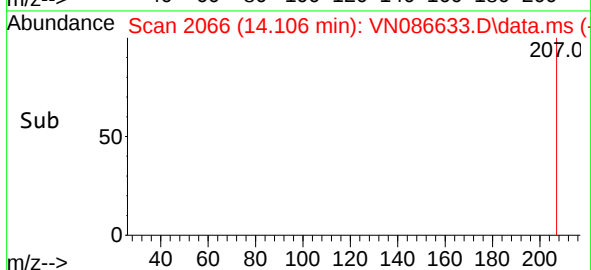
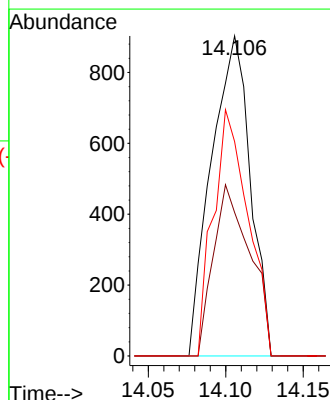
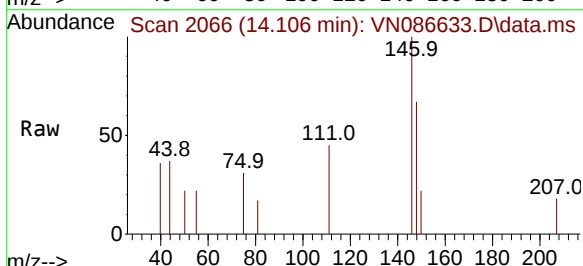
Tgt Ion:146 Resp: 1580

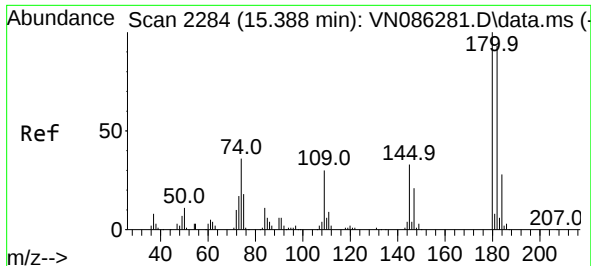
Ion Ratio Lower Upper

146 100

111 50.1 22.4 67.0

148 68.9 31.8 95.4

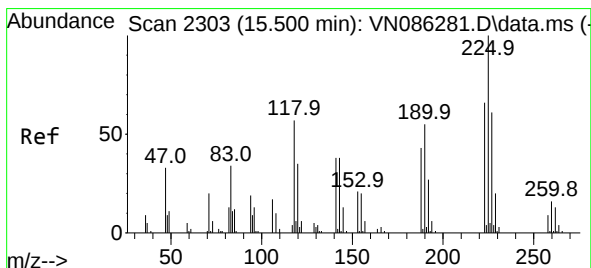
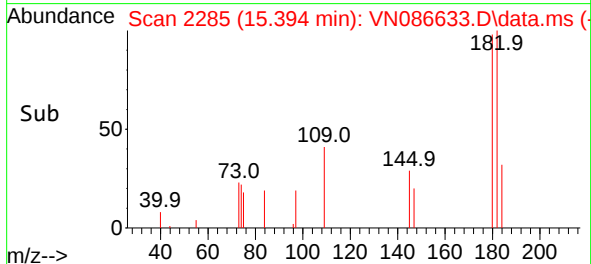
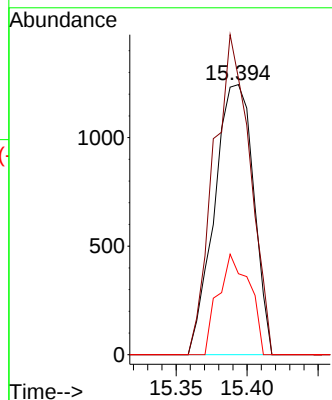
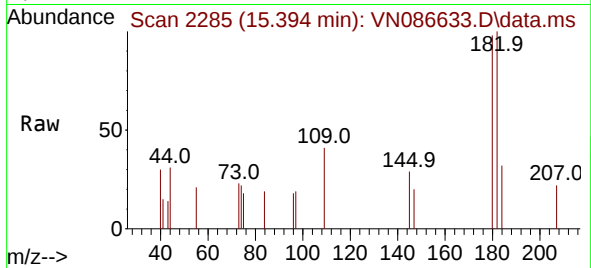




#93
1,2,4-Trichlorobenzene
Concen: 0.755 ug/l
RT: 15.394 min Scan# 210
Delta R.T. 0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

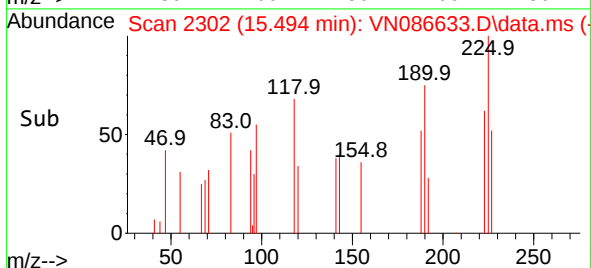
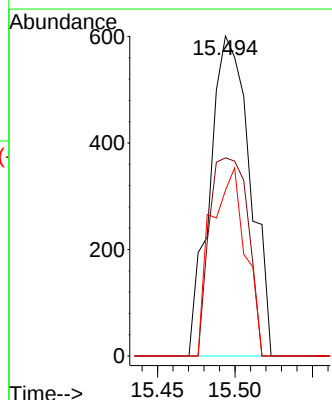
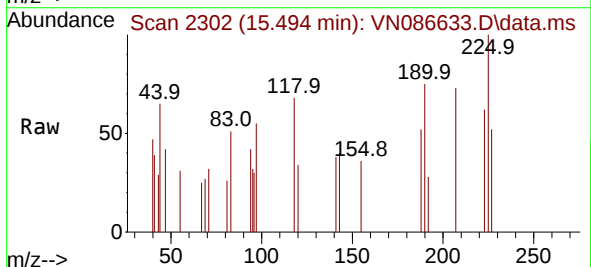
Instrument :
MSVOA_N
ClientSampleId :
VN0515WBL01

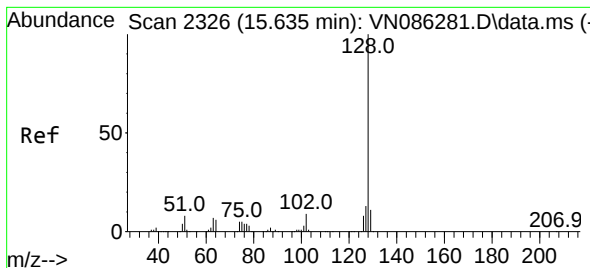
Tgt Ion:180 Resp: 2386
Ion Ratio Lower Upper
180 100
182 109.9 47.0 141.0
145 29.8 16.4 49.1



#94
Hexachlorobutadiene
Concen: 0.907 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086633.D
Acq: 15 May 2025 10:12

Tgt Ion:225 Resp: 1082
Ion Ratio Lower Upper
225 100
223 59.4 32.8 98.3
227 50.5 31.4 94.0





#95

Naphthalene

Concen: 1.106 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

Instrument :

MSVOA_N

ClientSampleId :

VN0515WBL01

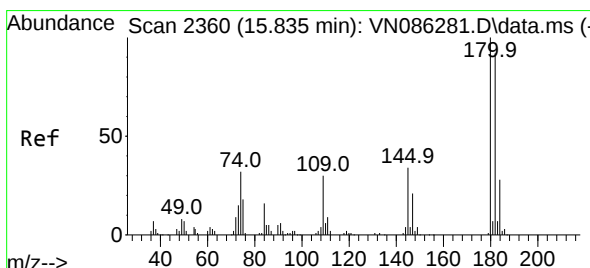
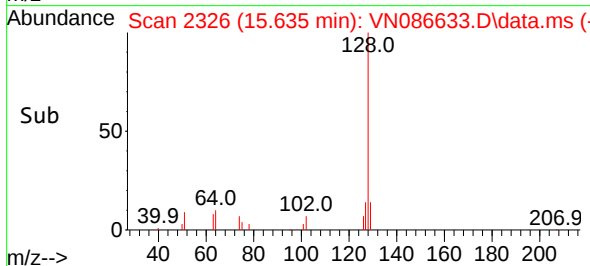
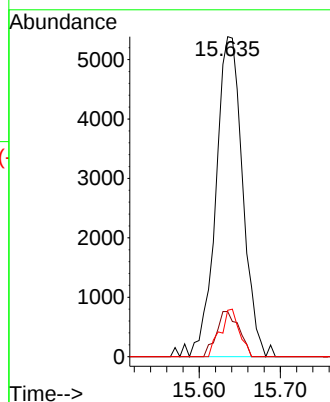
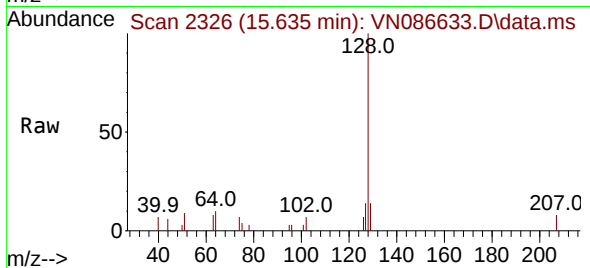
Tgt Ion:128 Resp: 12400

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

129 10.5 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 0.971 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086633.D

Acq: 15 May 2025 10:12

Tgt Ion:180 Resp: 2907

Ion Ratio Lower Upper

180 100

182 91.3 47.3 142.0

145 29.5 17.2 51.5

