

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040225\
 Data File : VN086202.D
 Acq On : 02 Apr 2025 12:22
 Operator : JC\MD
 Sample : VN0402MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0402MBL01

Quant Time: Apr 03 01:34:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

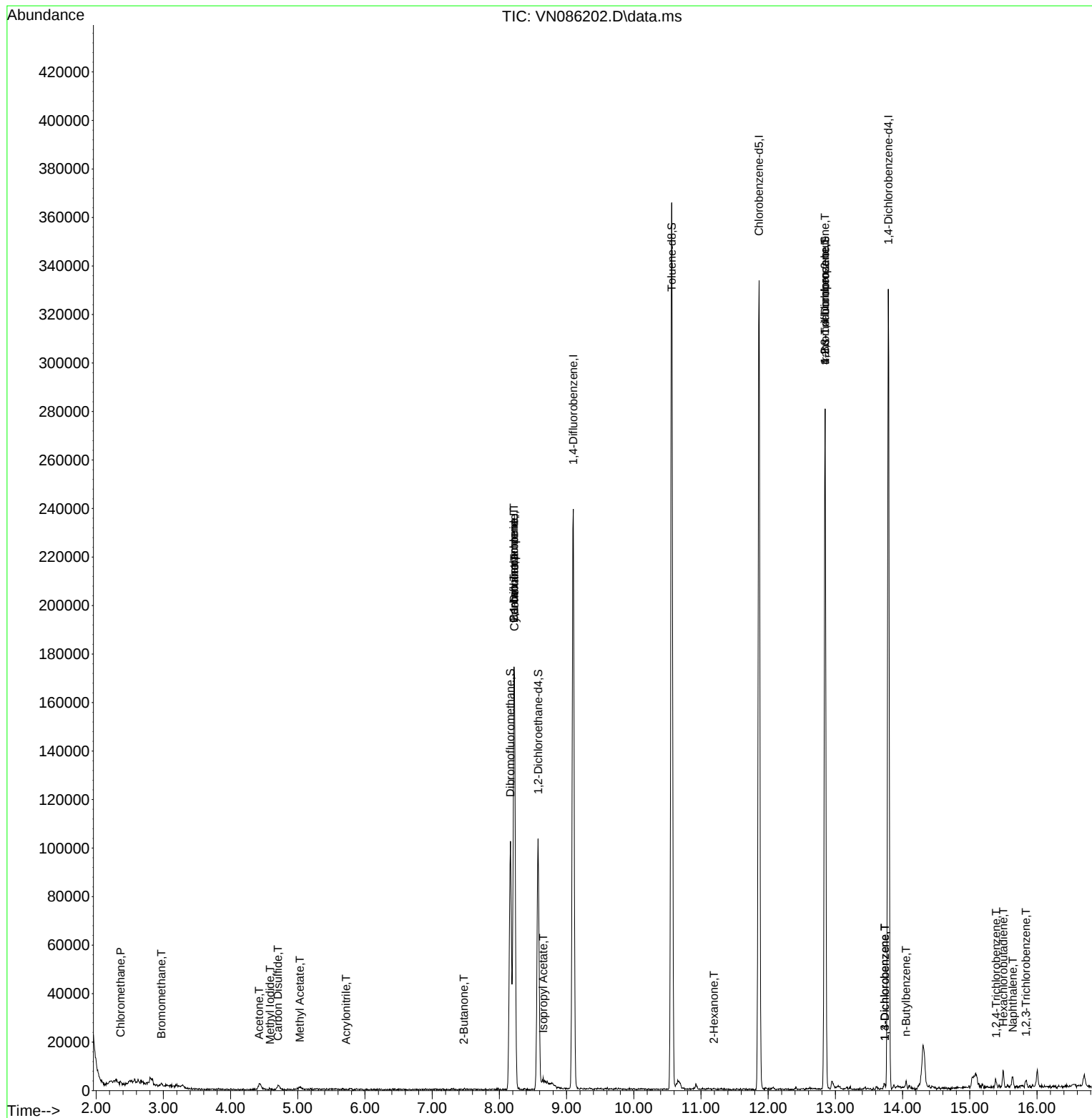
Internal Standards						
1) Pentafluorobenzene	8.218	168	128313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	211208	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	195780	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	90467	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	89150	50.739	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.480%		
35) Dibromofluoromethane	8.165	113	70457	47.793	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 95.580%		
50) Toluene-d8	10.565	98	259170	48.440	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.880%		
62) 4-Bromofluorobenzene	12.847	95	95117	49.849	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 99.700%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	908	0.609	ug/l	94
5) Bromomethane	2.971	94	576	0.555	ug/l #	64
10) Methyl Iodide	4.589	142	510	0.269	ug/l #	71
15) Acrylonitrile	5.718	53	157	0.239	ug/l #	19
16) Acetone	4.424	43	5740	10.693	ug/l	98
17) Carbon Disulfide	4.706	76	2307	0.534	ug/l #	74
18) Methyl Acetate	5.030	43	2425	1.826	ug/l #	84
25) 2-Butanone	7.471	43	240	0.310	ug/l #	40
31) Cyclohexane	8.224	56	2451	1.120	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	9513	4.901	ug/l #	50
38) Carbon Tetrachloride	8.218	117	13249	5.191	ug/l #	15
43) Isopropyl Acetate	8.653	43	3821	1.077	ug/l #	50
59) 2-Hexanone	11.194	43	258	0.226	ug/l	79
76) 1,2,3-Trichloropropane	12.847	75	50050	24.711	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50050	65.333	ug/l #	16
87) 1,3-Dichlorobenzene	13.735	146	775	0.250	ug/l	90
88) 1,4-Dichlorobenzene	13.735	146	775	0.238	ug/l	92
89) n-Butylbenzene	14.053	91	1963	0.489	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	1211	0.780	ug/l	74
94) Hexachlorobutadiene	15.500	225	1574	1.748	ug/l	85
95) Naphthalene	15.641	128	5169	1.150	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.835	180	1722	1.169	ug/l	81

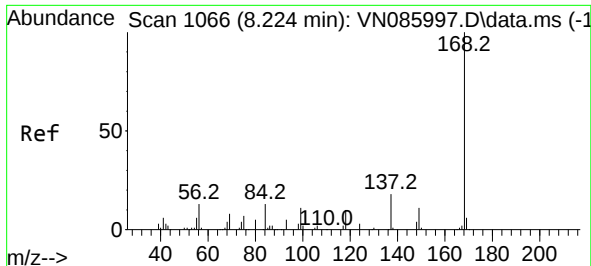
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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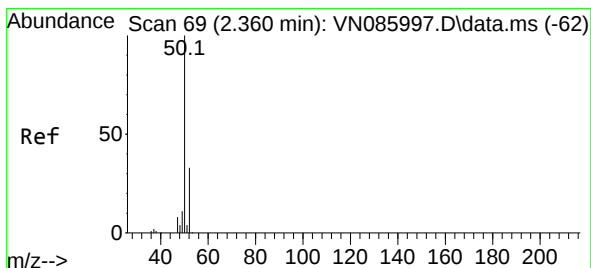
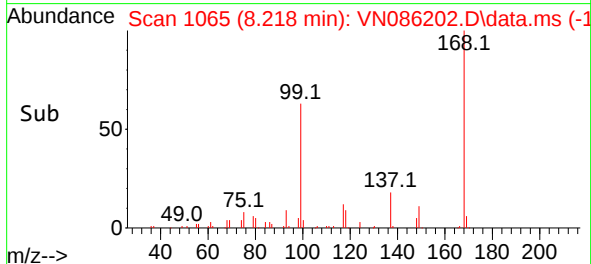
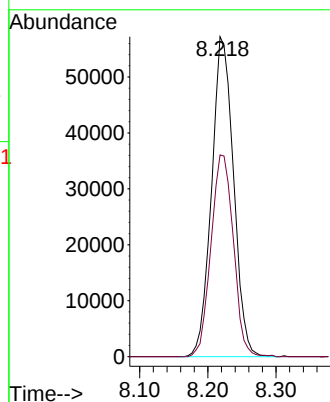
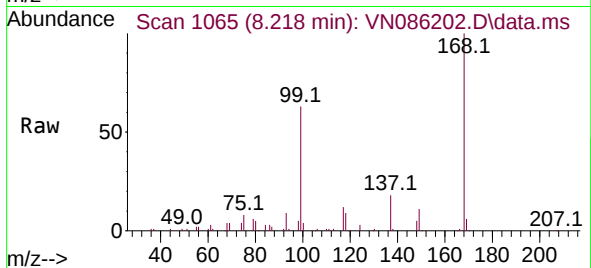




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

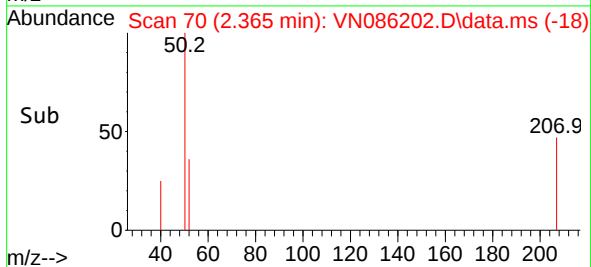
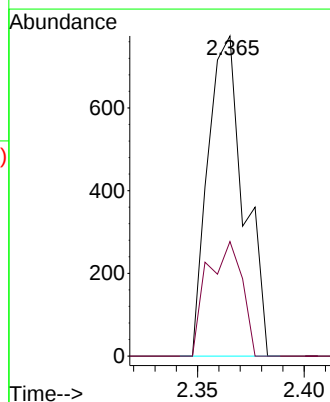
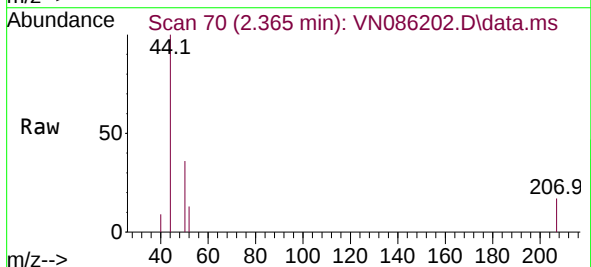
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

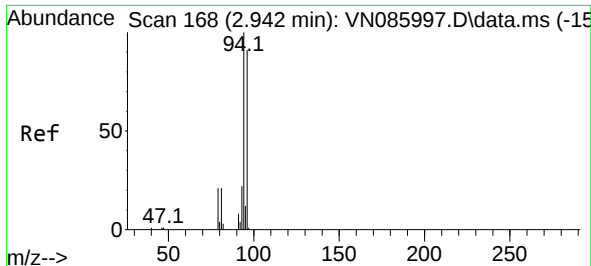
Tgt Ion:168 Resp: 128313
Ion Ratio Lower Upper
168 100
99 63.1 49.4 74.2



#3
Chloromethane
Concen: 0.609 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 50 Resp: 908
Ion Ratio Lower Upper
50 100
52 35.8 26.0 39.0

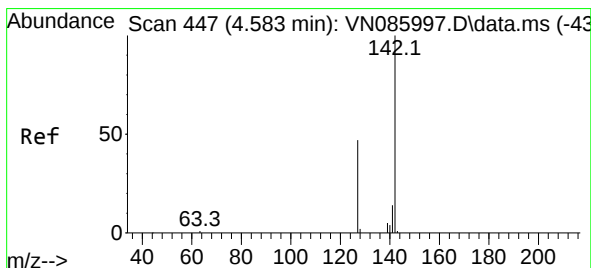
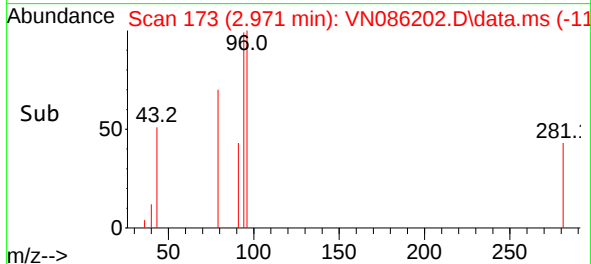
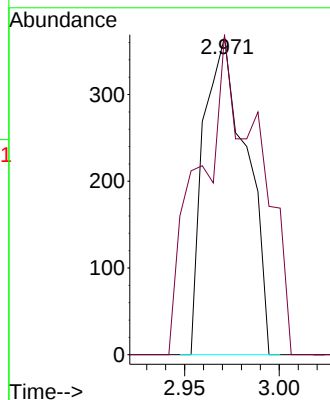
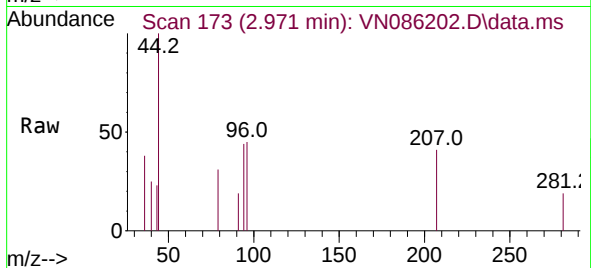




#5
Bromomethane
Concen: 0.555 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

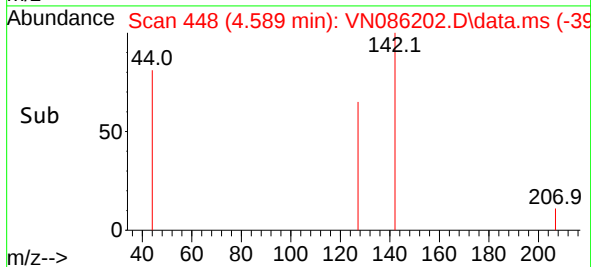
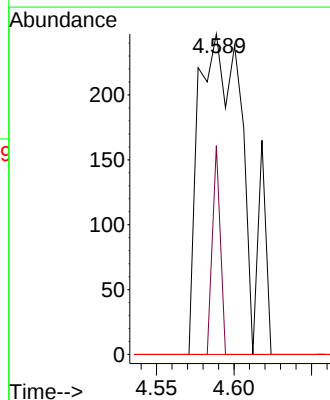
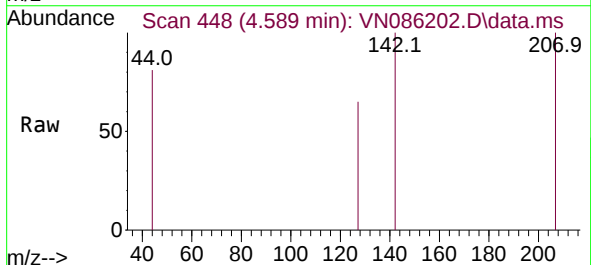
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

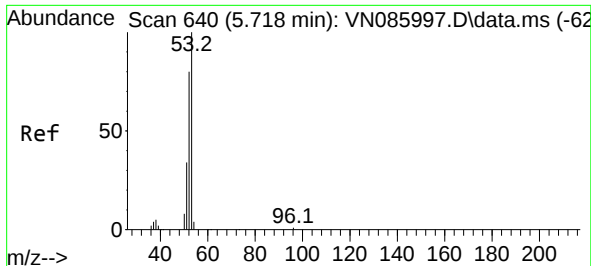
Tgt Ion: 94 Resp: 576
Ion Ratio Lower Upper
94 100
96 57.1 72.8 109.2#



#10
Methyl Iodide
Concen: 0.269 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion:142 Resp: 510
Ion Ratio Lower Upper
142 100
127 65.2 37.5 56.3#
141 0.0 11.0 16.6#

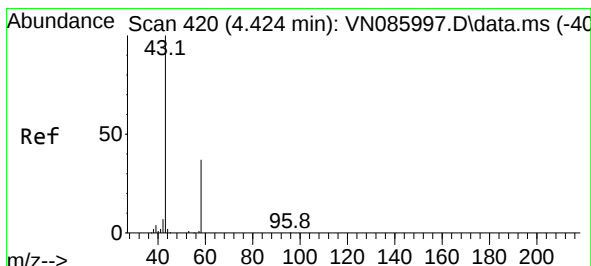
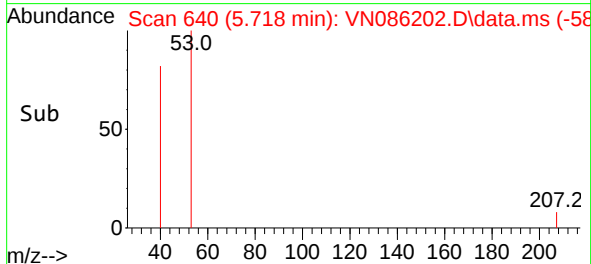
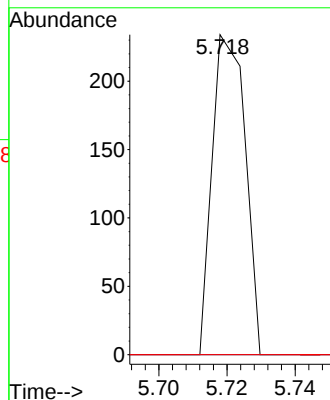
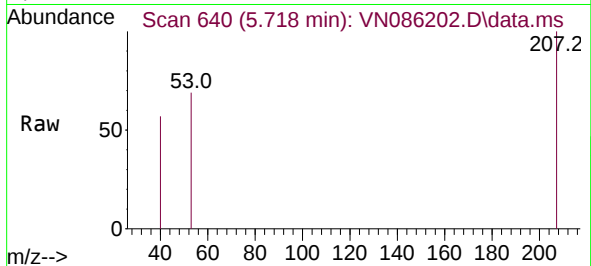




#15
Acrylonitrile
Concen: 0.239 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

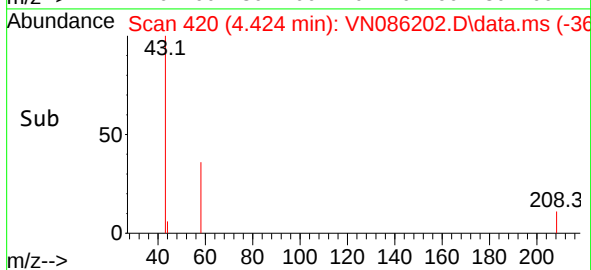
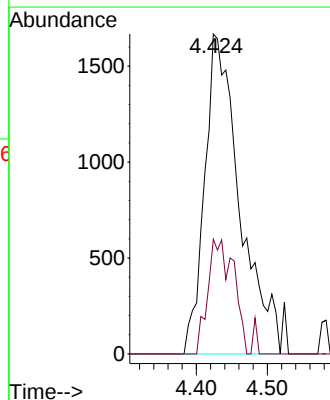
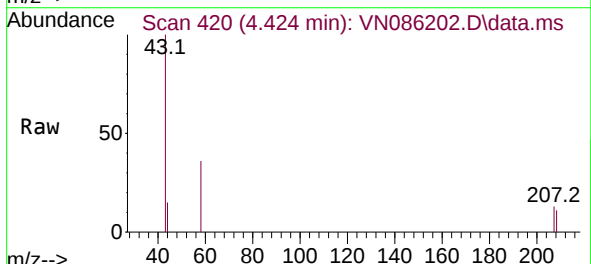
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

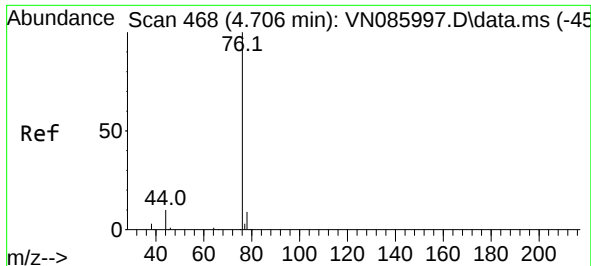
Tgt Ion: 53 Resp: 157
Ion Ratio Lower Upper
53 100
52 0.0 63.9 95.9#
51 0.0 27.1 40.7#



#16
Acetone
Concen: 10.693 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 43 Resp: 5740
Ion Ratio Lower Upper
43 100
58 35.9 29.4 44.2

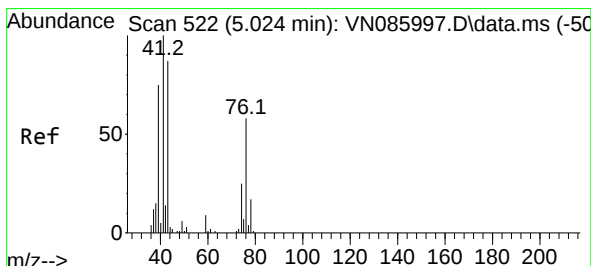
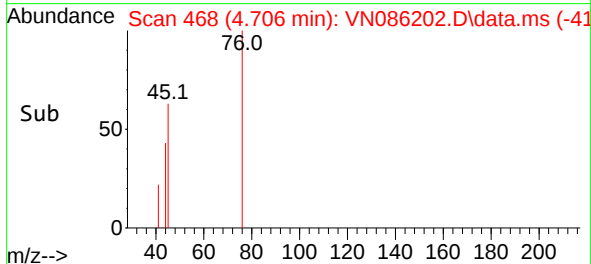
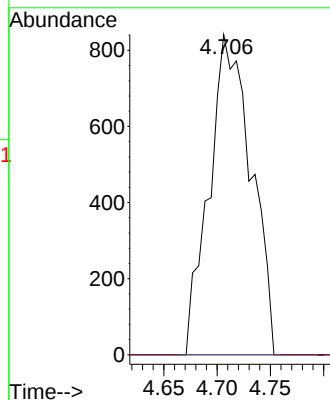
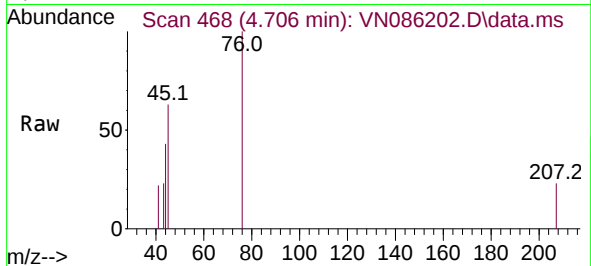




#17
Carbon Disulfide
Concen: 0.534 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

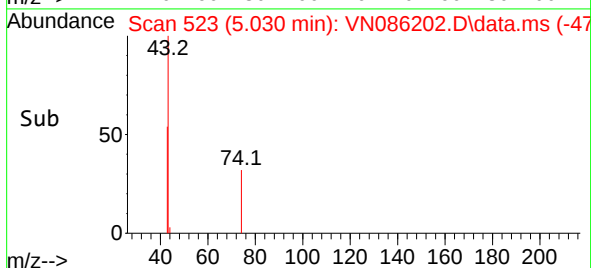
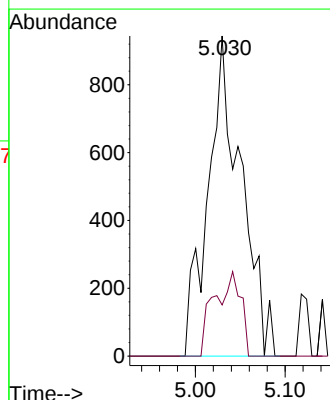
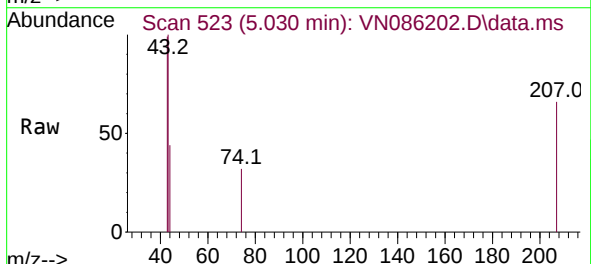
Instrument :
MSVOA_N
ClientSampleId :
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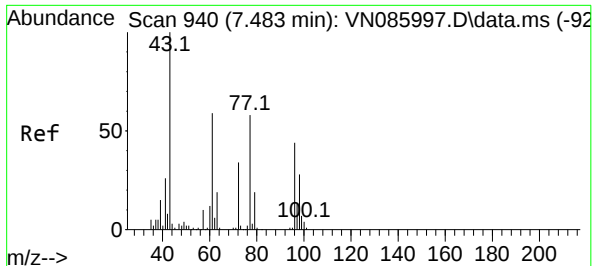
Tgt Ion: 76 Resp: 2307
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 1.826 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 43 Resp: 2425
Ion Ratio Lower Upper
43 100
74 21.0 23.9 35.9#

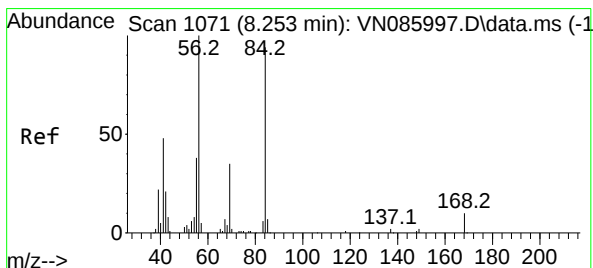
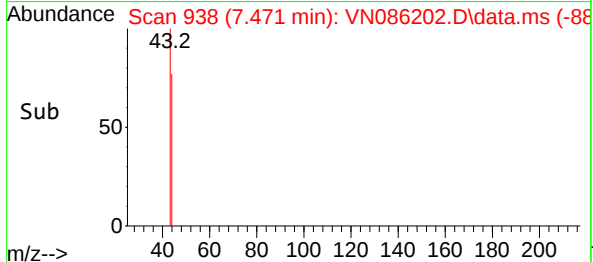
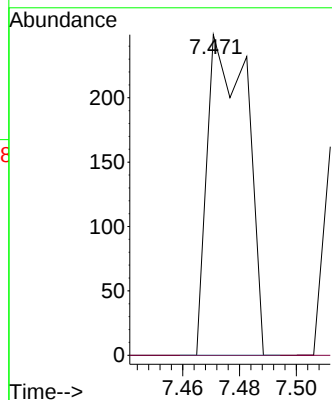
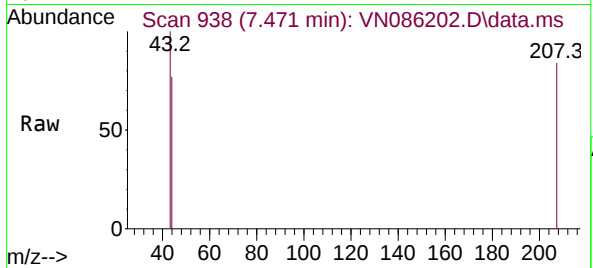




#25
2-Butanone
Concen: 0.310 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

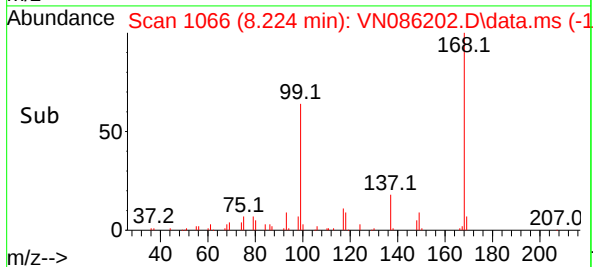
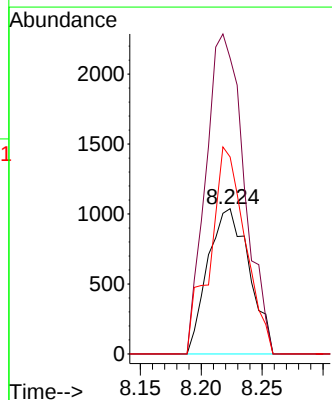
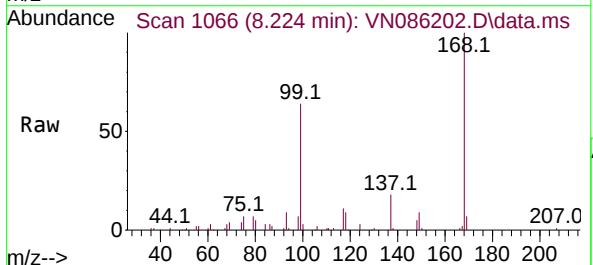
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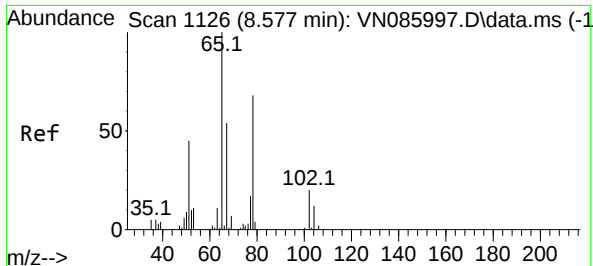
Tgt Ion: 43 Resp: 240
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#



#31
Cyclohexane
Concen: 1.120 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 56 Resp: 2451
Ion Ratio Lower Upper
56 100
69 203.7 28.0 42.0#
84 135.6 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 50.739 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

Instrument :

MSVOA_N

ClientSampleId :

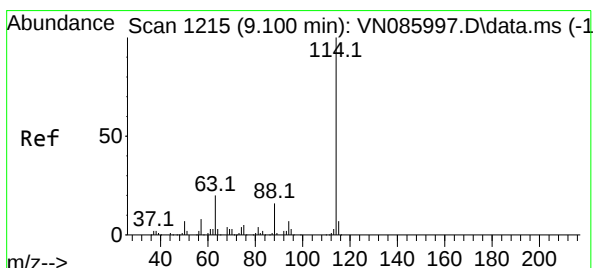
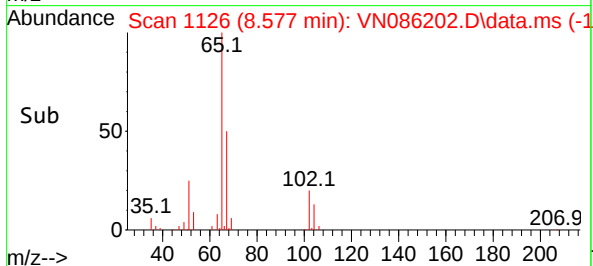
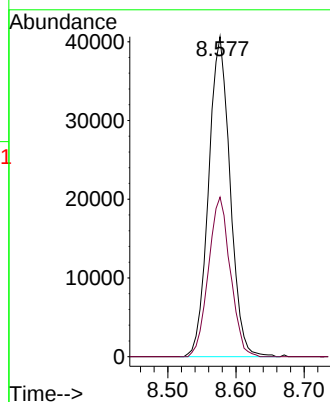
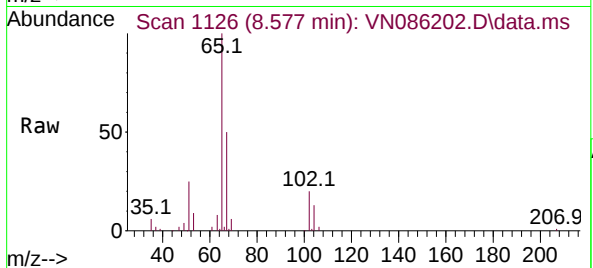
VN0402MBL01

Tgt Ion: 65 Resp: 89150

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

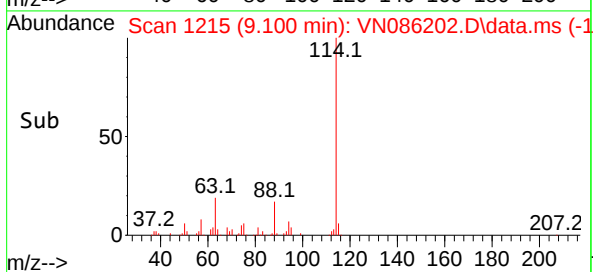
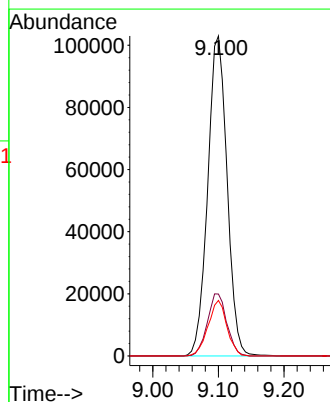
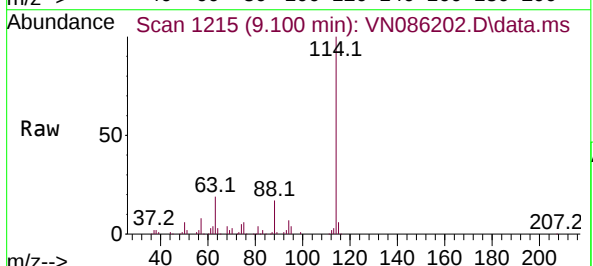
Tgt Ion: 114 Resp: 211208

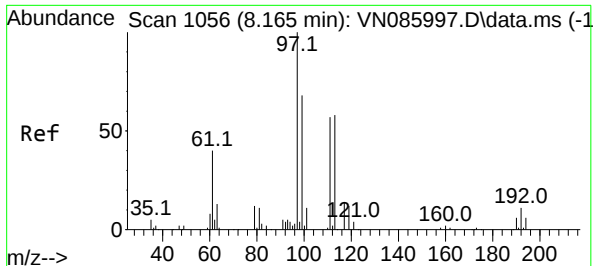
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 17.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.793 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

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MSVOA_N

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VN0402MBL01

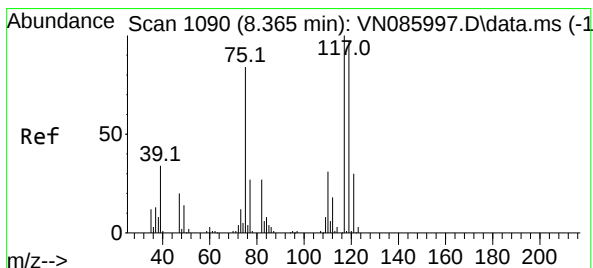
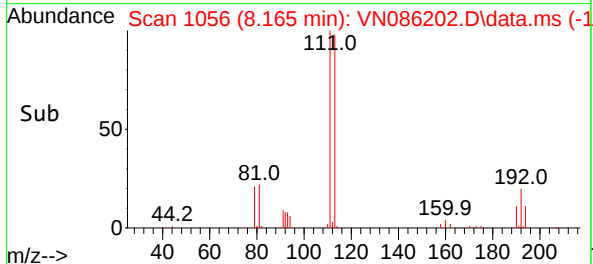
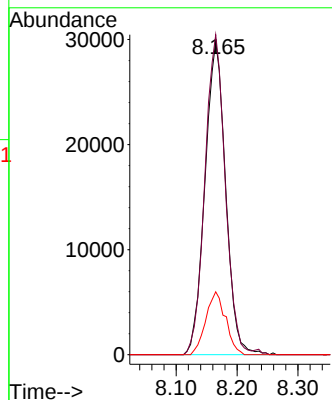
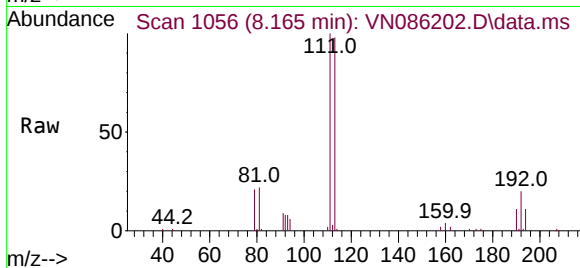
Tgt Ion:113 Resp: 70457

Ion Ratio Lower Upper

113 100

111 100.5 81.8 122.8

192 19.2 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.901 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

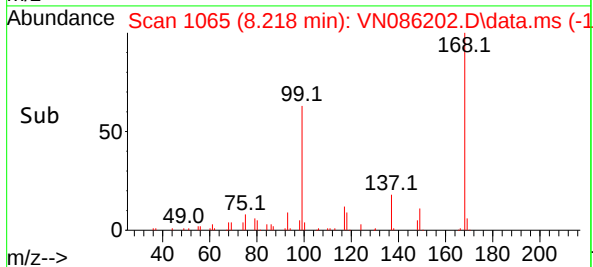
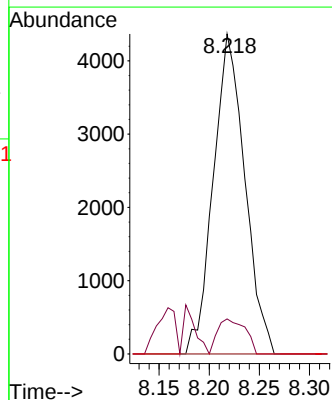
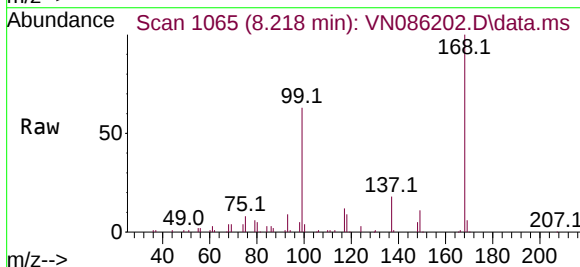
Tgt Ion: 75 Resp: 9513

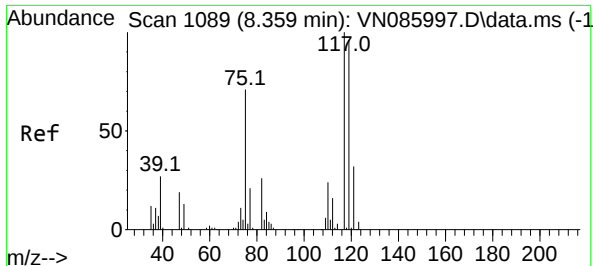
Ion Ratio Lower Upper

75 100

110 9.6 17.8 53.3#

77 0.0 25.0 37.4#

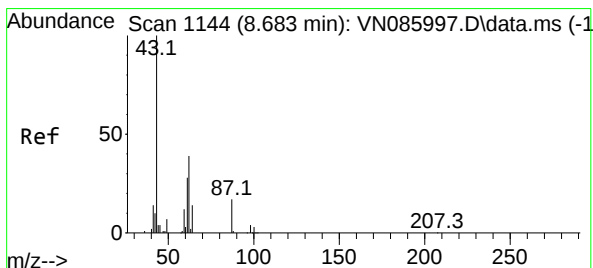
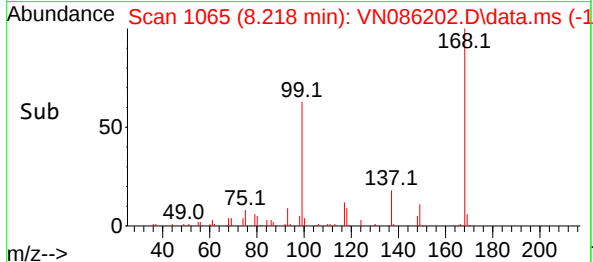
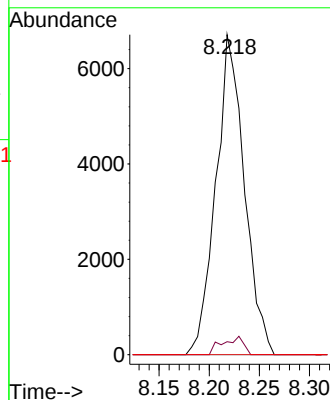
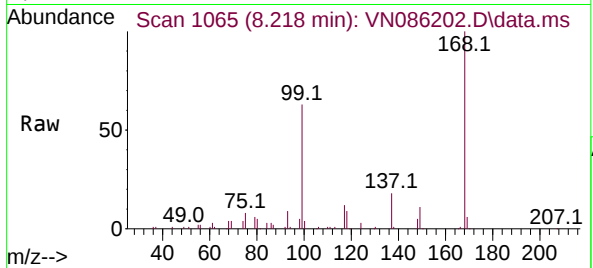




#38
Carbon Tetrachloride
Concen: 5.191 ug/l
RT: 8.218 min Scan# 1139
Delta R.T. -0.141 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

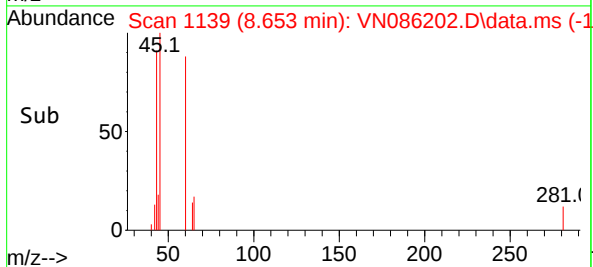
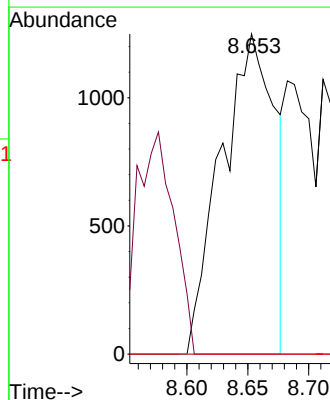
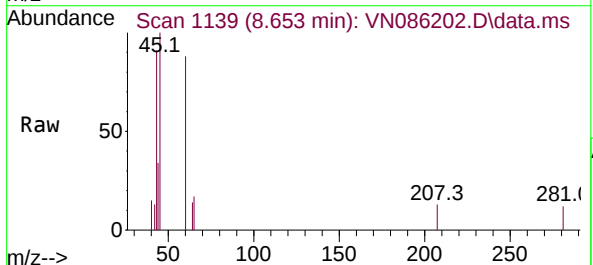
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

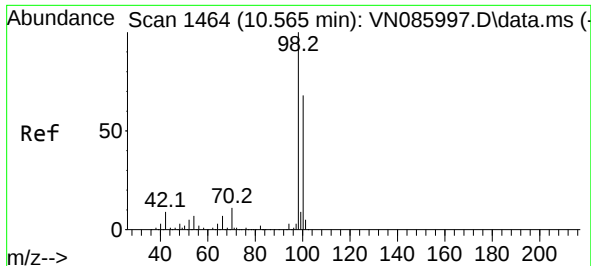
Tgt Ion: 117 Resp: 13249
Ion Ratio Lower Upper
117 100
119 4.0 77.0 115.4#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 1.077 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.030 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 43 Resp: 3821
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#

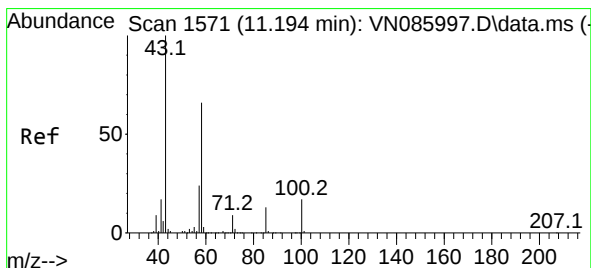
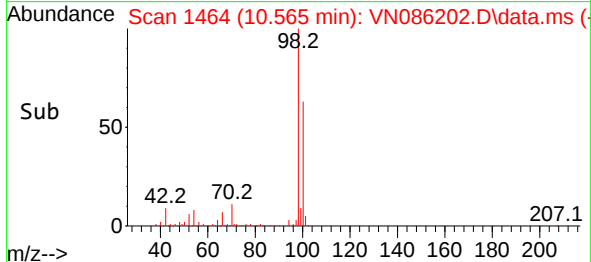
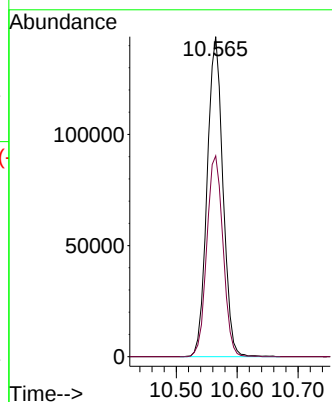
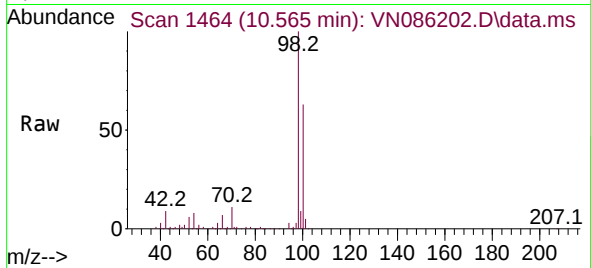




#50
Toluene-d8
Concen: 48.440 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

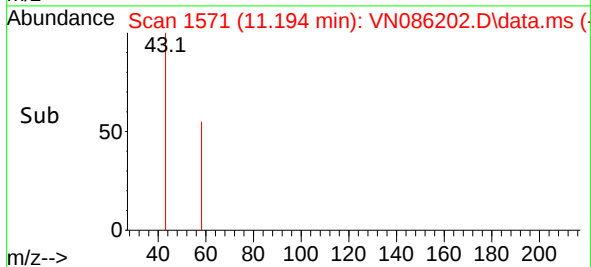
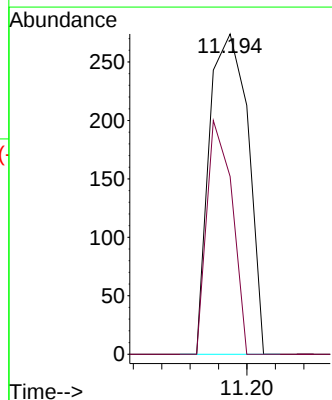
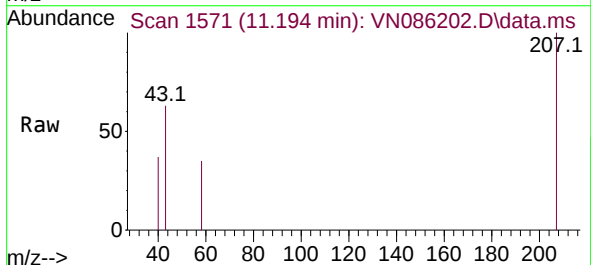
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

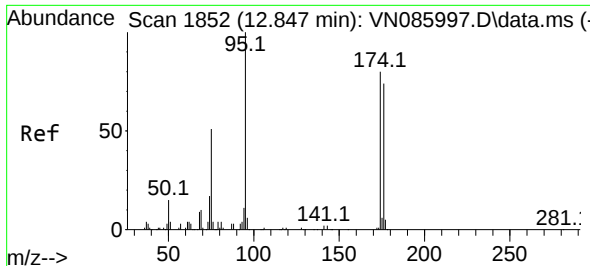
Tgt Ion: 98 Resp: 259170
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7



#59
2-Hexanone
Concen: 0.226 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 43 Resp: 258
Ion Ratio Lower Upper
43 100
58 48.1 32.4 97.2

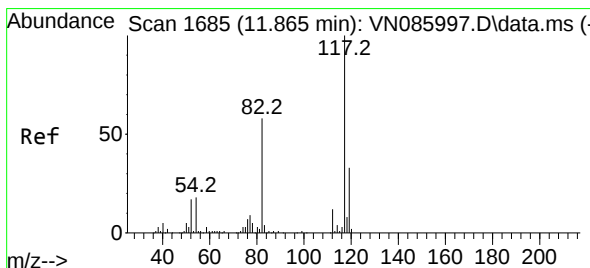
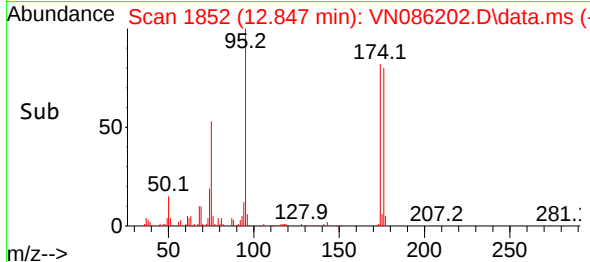
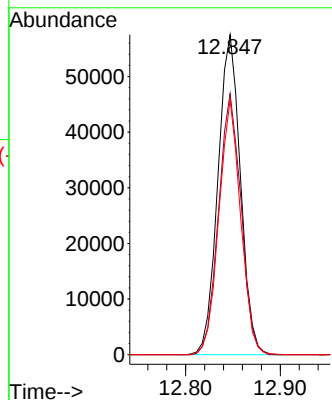
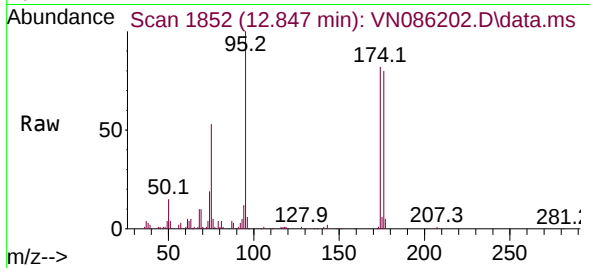




#62
4-Bromofluorobenzene
Concen: 49.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

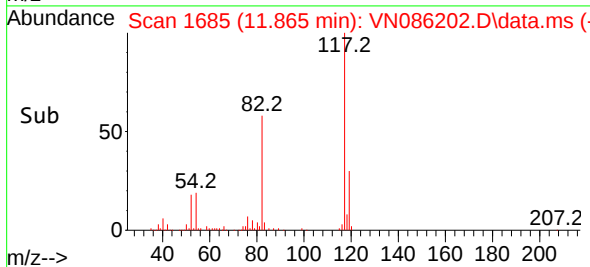
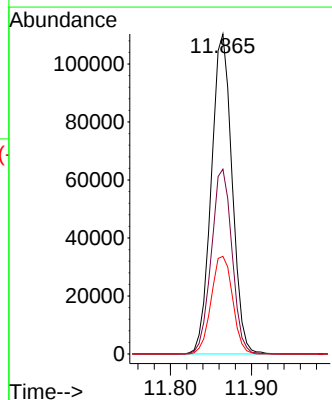
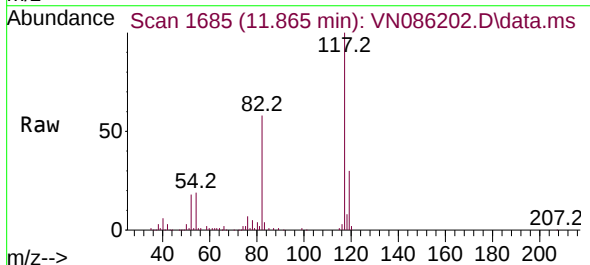
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

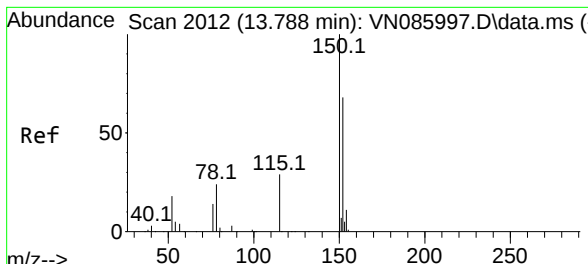
Tgt Ion: 95 Resp: 95117
Ion Ratio Lower Upper
95 100
174 81.2 0.0 156.8
176 76.9 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 117 Resp: 195780
Ion Ratio Lower Upper
117 100
82 57.8 46.7 70.1
119 30.5 26.5 39.7

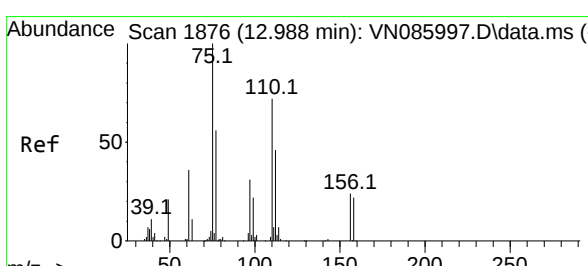
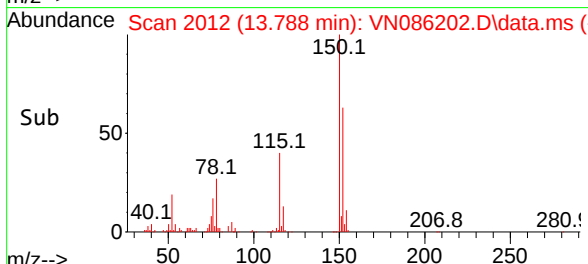
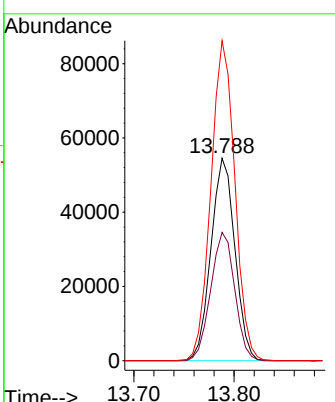
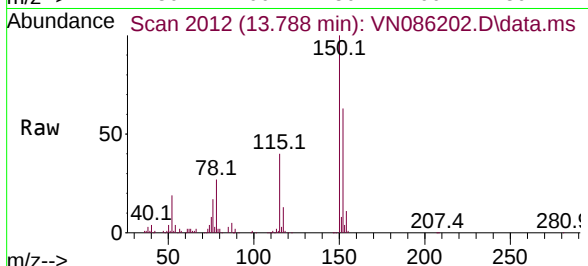




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086202.D
 Acq: 02 Apr 2025 12:22

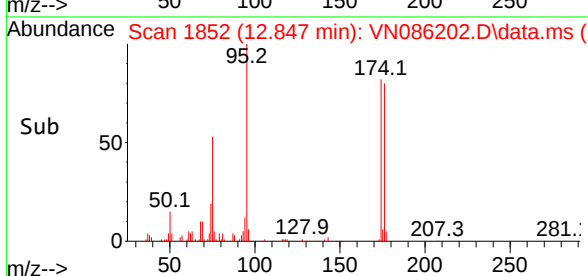
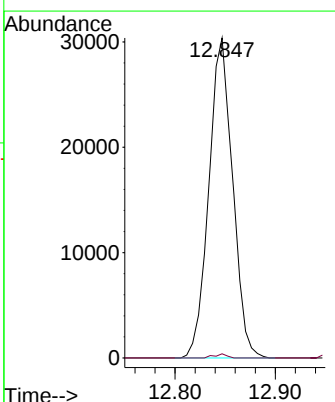
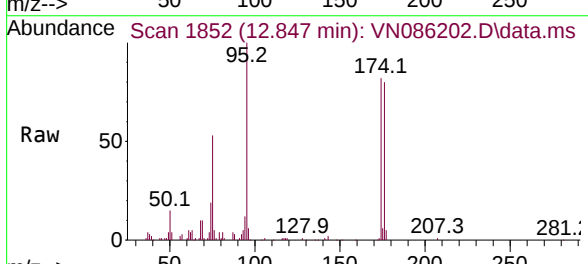
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0402MBL01

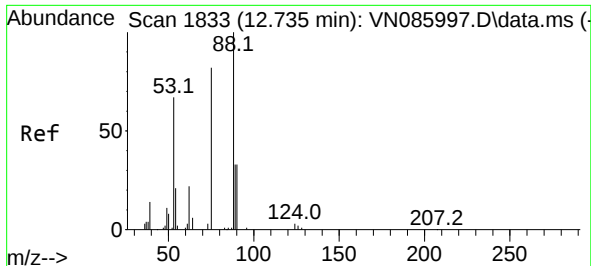
Tgt Ion:	152	Resp:	90467
Ion	Ratio	Lower	Upper
152	100		
115	63.5	31.1	93.2
150	157.8	0.0	359.6



#76
 1,2,3-Trichloropropane
 Concen: 24.711 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086202.D
 Acq: 02 Apr 2025 12:22

Tgt Ion:	75	Resp:	50050
Ion	Ratio	Lower	Upper
75	100		
77	0.7	83.7	251.0#

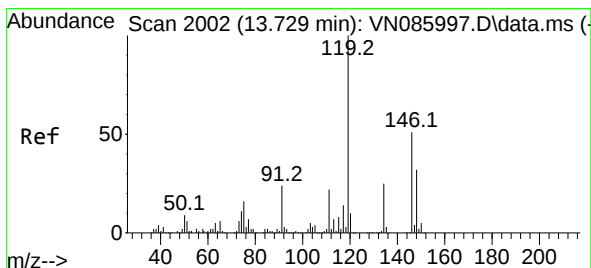
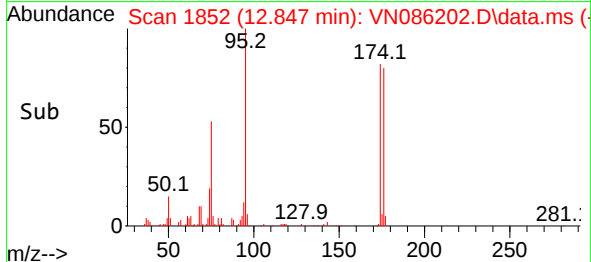
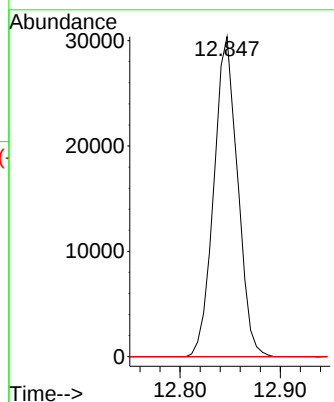
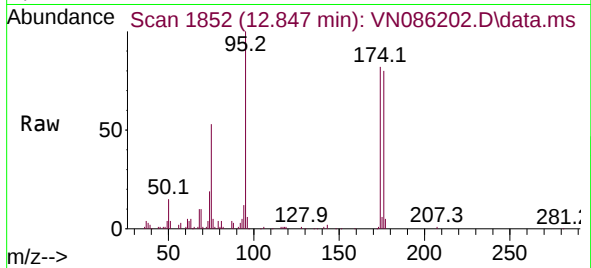




#81
trans-1,4-Dichloro-2-butene
Concen: 65.333 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

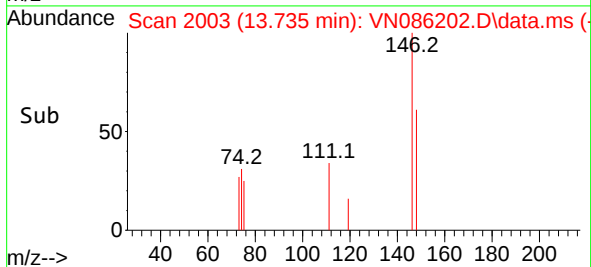
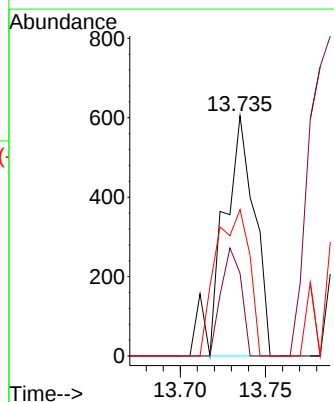
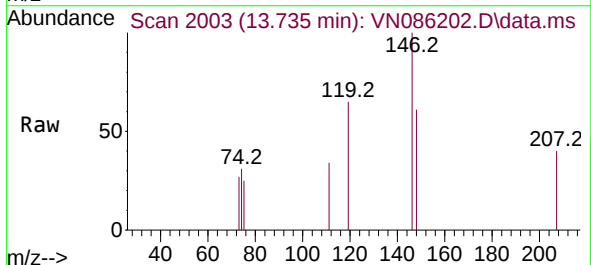
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

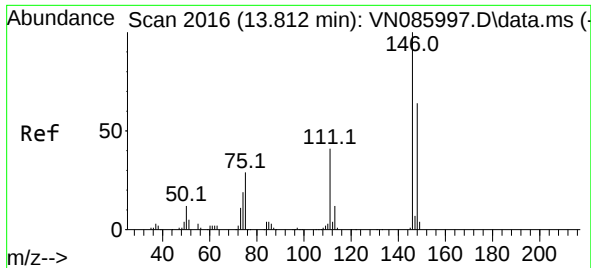
Tgt Ion: 75 Resp: 50050
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#87
1,3-Dichlorobenzene
Concen: 0.250 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 146 Resp: 775
Ion Ratio Lower Upper
146 100
111 28.9 21.2 63.6
148 64.9 31.8 95.4

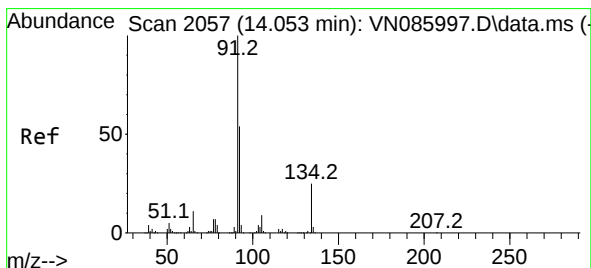
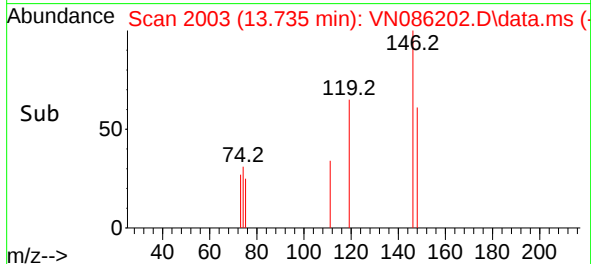
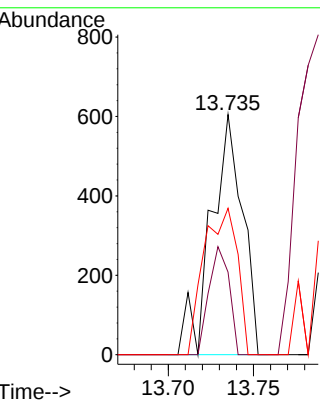
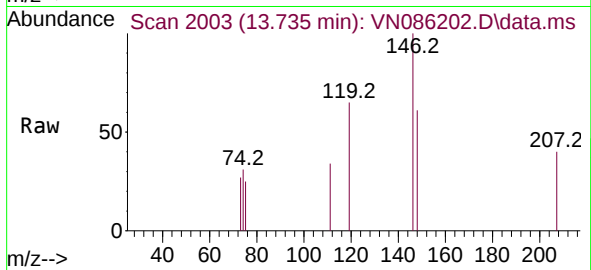




#88
1,4-Dichlorobenzene
Concen: 0.238 ug/l
RT: 13.735 min Scan# 2016
Delta R.T. -0.077 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

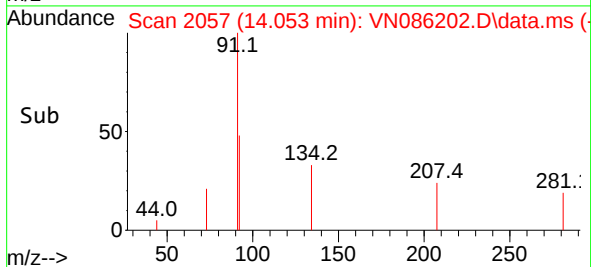
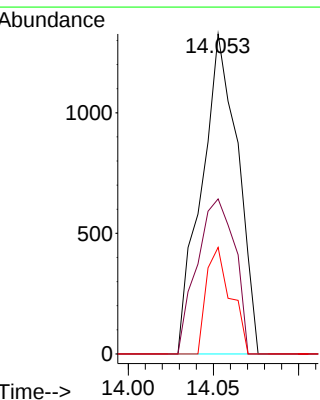
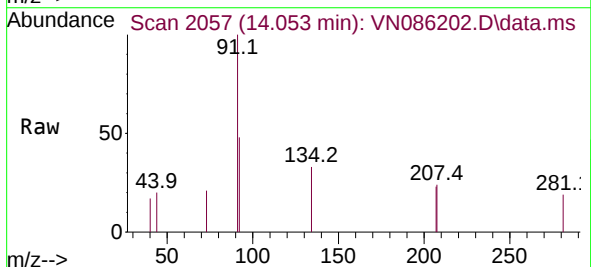
Instrument :
MSVOA_N
ClientSampleId :
VN0402MBL01

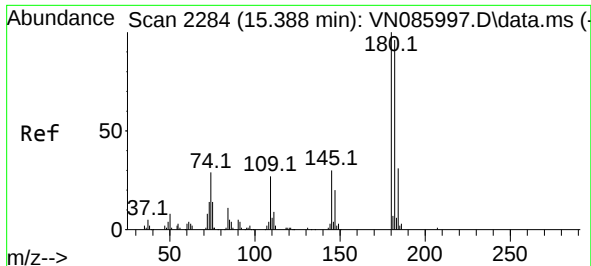
Tgt Ion:146 Resp: 775
Ion Ratio Lower Upper
146 100
111 28.9 20.4 61.3
148 64.9 32.1 96.5



#89
n-Butylbenzene
Concen: 0.489 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086202.D
Acq: 02 Apr 2025 12:22

Tgt Ion: 91 Resp: 1963
Ion Ratio Lower Upper
91 100
92 50.6 26.9 80.6
134 22.5 13.0 39.0

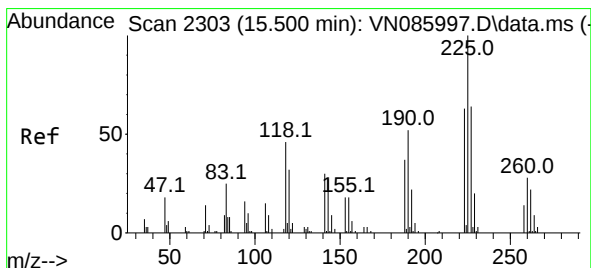
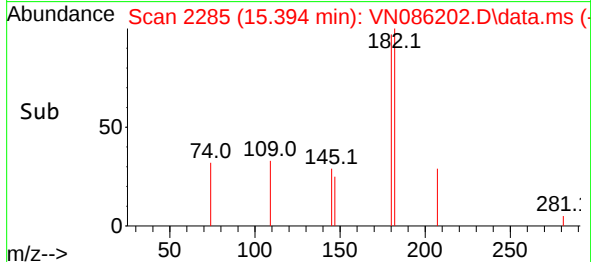
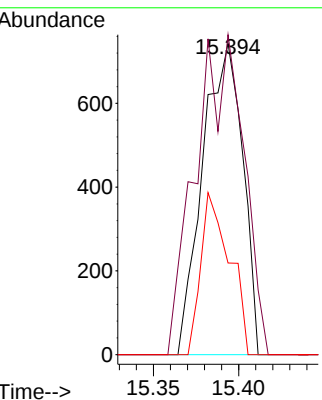
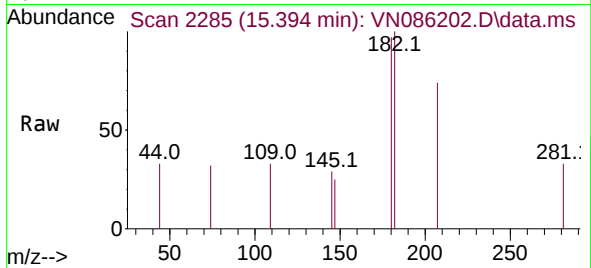




#93
 1,2,4-Trichlorobenzene
 Concen: 0.780 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086202.D
 Acq: 02 Apr 2025 12:22

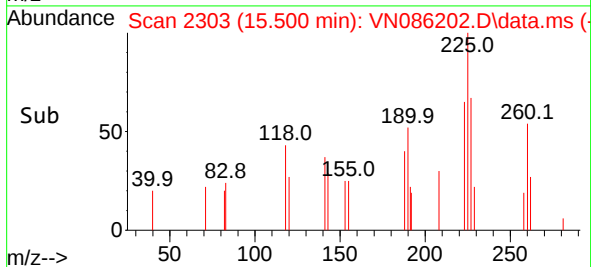
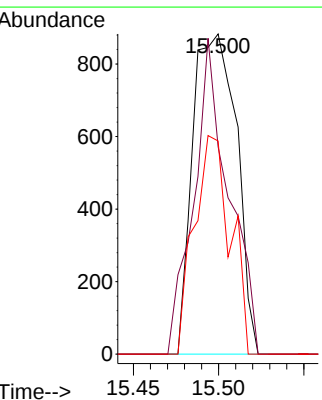
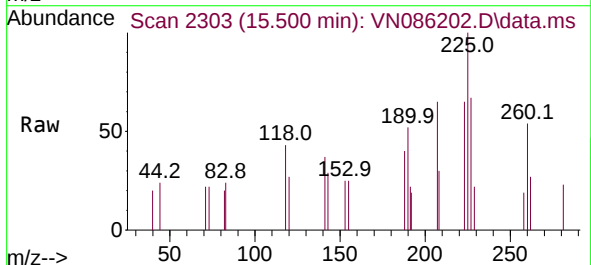
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0402MBL01

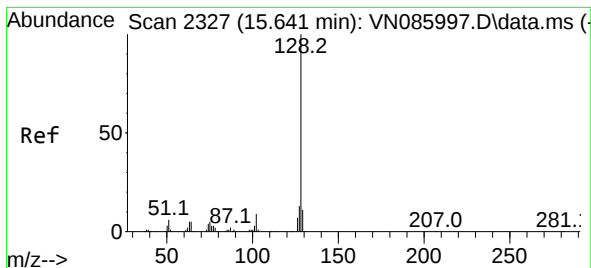
Tgt Ion:180 Resp: 1211
 Ion Ratio Lower Upper
 180 100
 182 123.7 47.0 141.0
 145 37.6 15.5 46.5



#94
 Hexachlorobutadiene
 Concen: 1.748 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN086202.D
 Acq: 02 Apr 2025 12:22

Tgt Ion:225 Resp: 1574
 Ion Ratio Lower Upper
 225 100
 223 79.0 31.3 93.9
 227 56.7 32.1 96.3





#95

Naphthalene

Concen: 1.150 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0402MBL01

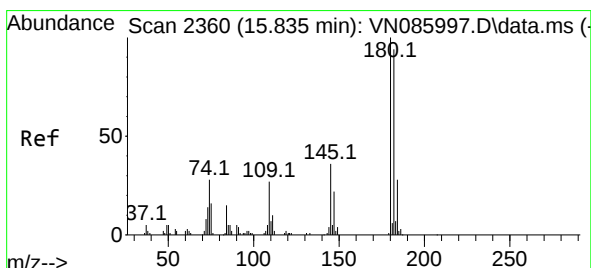
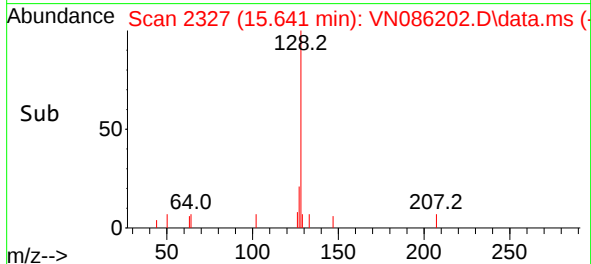
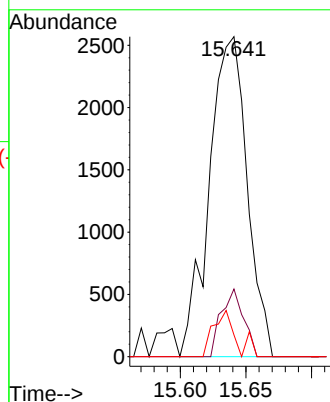
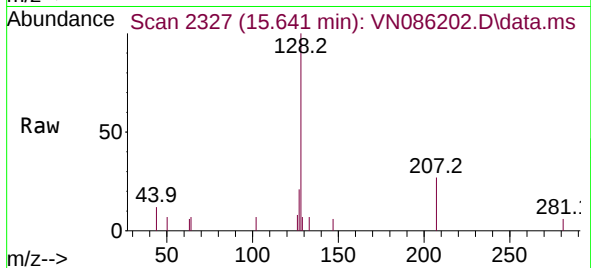
Tgt Ion:128 Resp: 5169

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

129 7.2 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 1.169 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086202.D

Acq: 02 Apr 2025 12:22

Tgt Ion:180 Resp: 1722

Ion Ratio Lower Upper

180 100

182 75.0 47.5 142.5

145 26.9 17.7 53.1

