

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086091.D
 Acq On : 25 Mar 2025 11:02
 Operator : JC\MD
 Sample : VN0325MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0325MBL01

Quant Time: Mar 26 03:13:43 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)

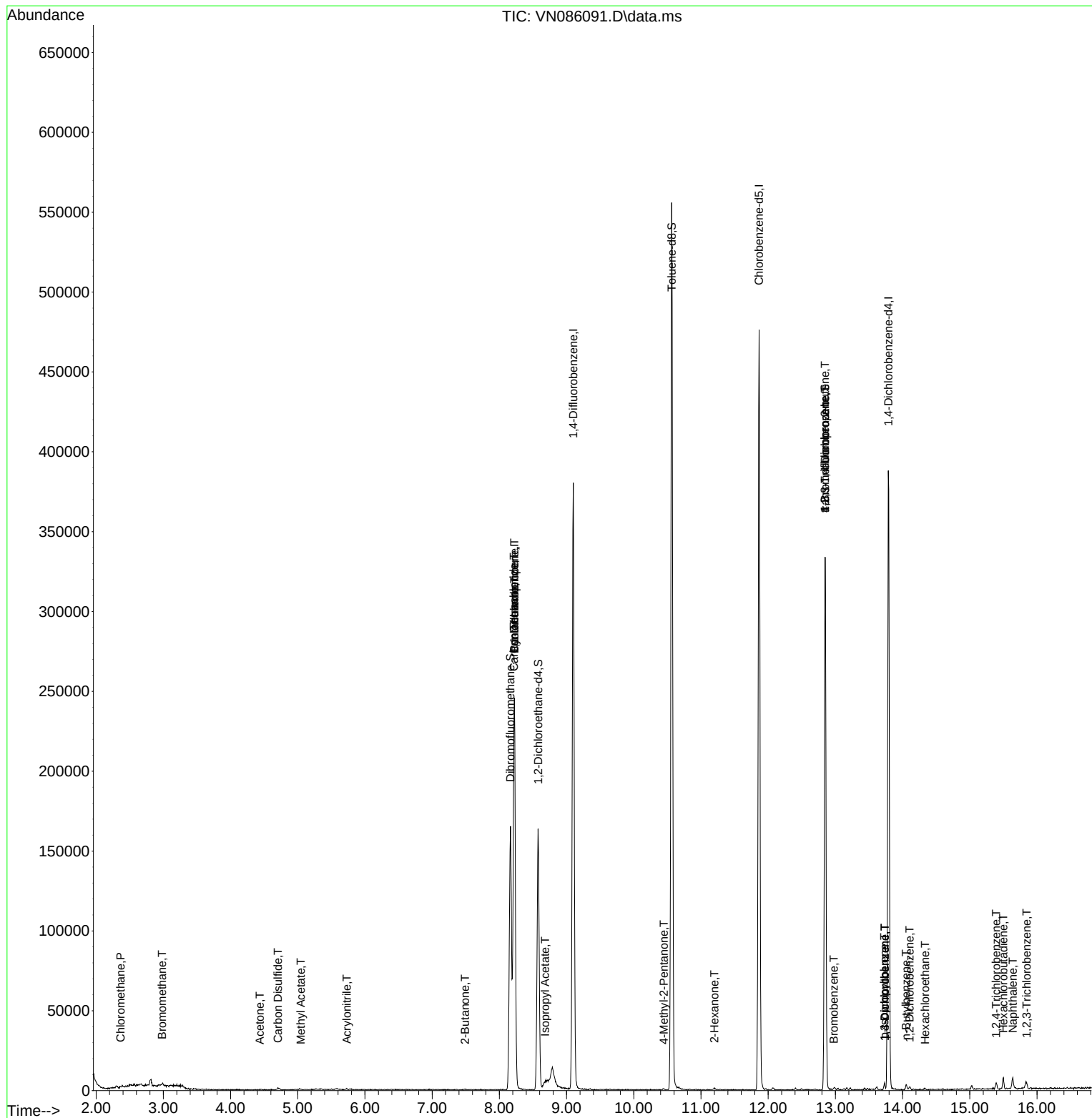
Internal Standards						
1) Pentafluorobenzene	8.224	168	180020	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287970	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114422	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132527	53.762	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.520%			
35) Dibromofluoromethane	8.165	113	119150	51.734	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.460%			
50) Toluene-d8	10.565	98	393152	47.034	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.060%			
62) 4-Bromofluorobenzene	12.847	95	118229	39.661	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 79.320%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	630	0.301	ug/l	93
5) Bromomethane	2.983	94	951	0.653	ug/l #	64
15) Acrylonitrile	5.730	53	361	0.392	ug/l #	46
16) Acetone	4.436	43	232	0.308	ug/l #	38
17) Carbon Disulfide	4.706	76	2828	0.466	ug/l #	74
18) Methyl Acetate	5.047	43	623	0.334	ug/l #	45
25) 2-Butanone	7.488	43	277	0.255	ug/l #	40
31) Cyclohexane	8.224	56	3690	1.201	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14318	4.721	ug/l #	47
38) Carbon Tetrachloride	8.218	117	19076	4.784	ug/l #	16
43) Isopropyl Acetate	8.682	43	4259	0.768	ug/l #	50
51) 4-Methyl-2-Pentanone	10.447	43	660	0.270	ug/l #	72
59) 2-Hexanone	11.200	43	1010	0.567	ug/l	75
76) 1,2,3-Trichloropropane	12.847	75	58332	22.771	ug/l #	1
77) Bromobenzene	12.976	156	510	0.234	ug/l	65
81) trans-1,4-Dichloro-2-b...	12.847	75	58332	60.202	ug/l #	16
86) p-Isopropyltoluene	13.729	119	1284	0.206	ug/l	83
87) 1,3-Dichlorobenzene	13.735	146	1117	0.284	ug/l	86
88) 1,4-Dichlorobenzene	13.735	146	1117	0.271	ug/l	87
89) n-Butylbenzene	14.053	91	2735	0.539	ug/l	88
90) Hexachloroethane	14.335	117	356	0.248	ug/l #	30
91) 1,2-Dichlorobenzene	14.106	146	1174	0.301	ug/l	91
93) 1,2,4-Trichlorobenzene	15.394	180	1546	0.788	ug/l	95
94) Hexachlorobutadiene	15.500	225	1521	1.336	ug/l	79
95) Naphthalene	15.641	128	7369	1.296	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.847	180	2215	1.189	ug/l	91

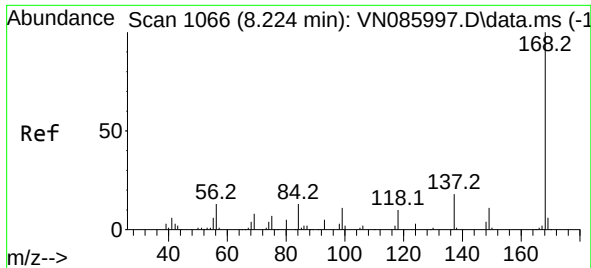
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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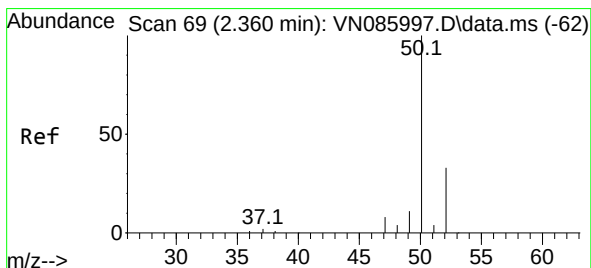
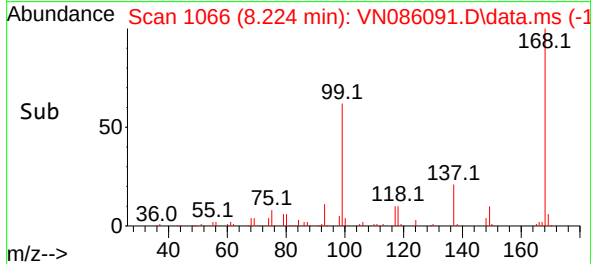
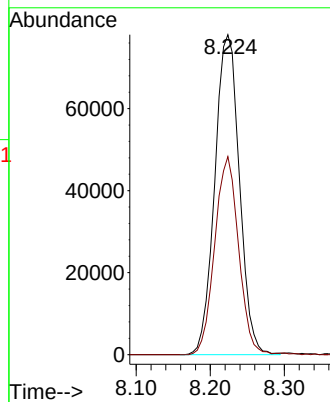
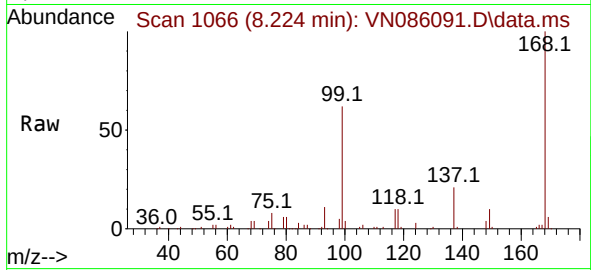




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

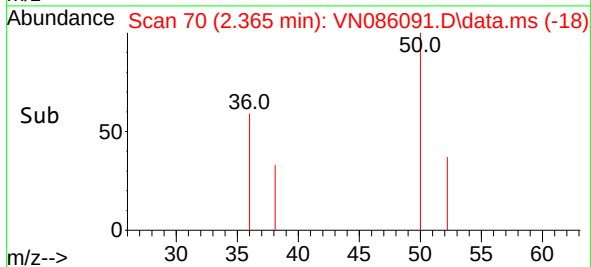
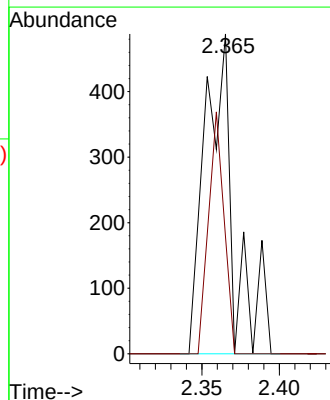
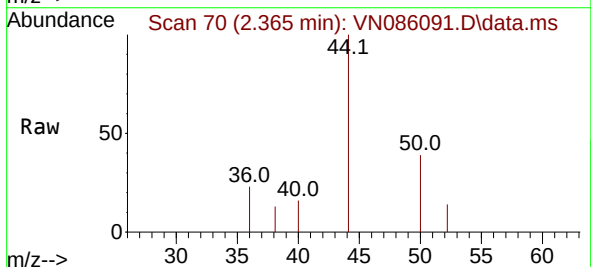
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

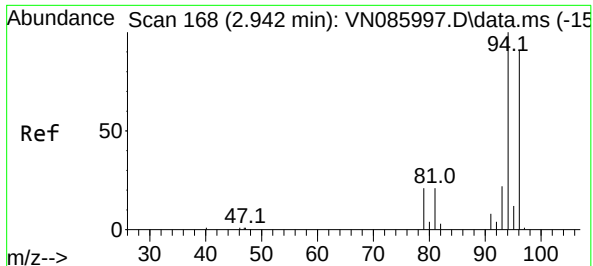
Tgt Ion:168 Resp: 180020
Ion Ratio Lower Upper
168 100
99 61.9 49.4 74.2



#3
Chloromethane
Concen: 0.301 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 50 Resp: 630
Ion Ratio Lower Upper
50 100
52 36.7 26.0 39.0

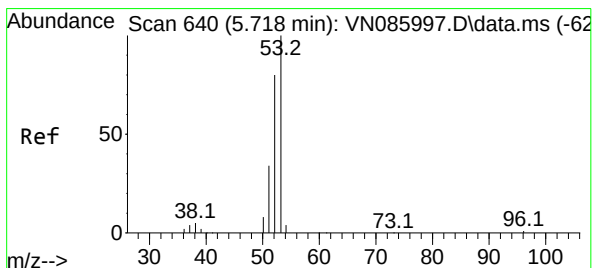
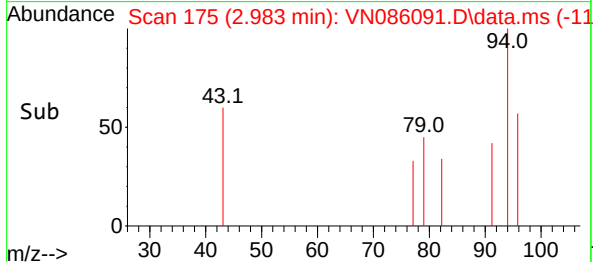
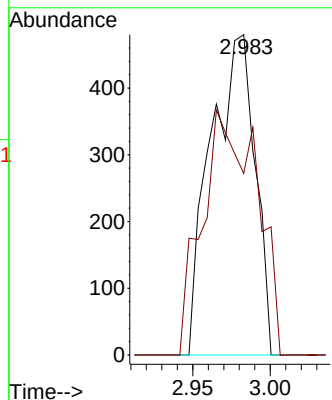
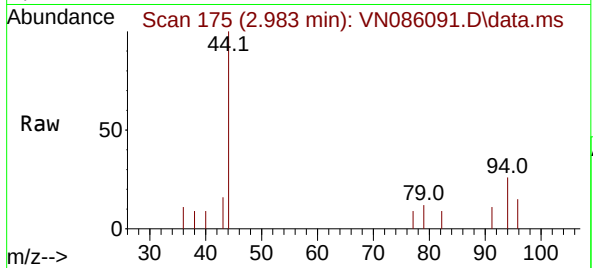




#5
Bromomethane
Concen: 0.653 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

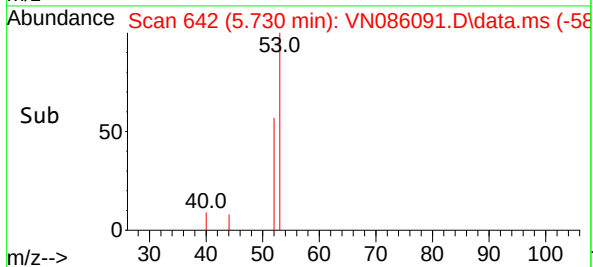
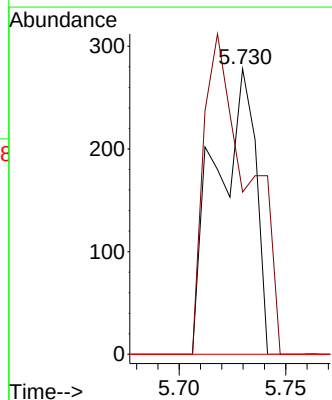
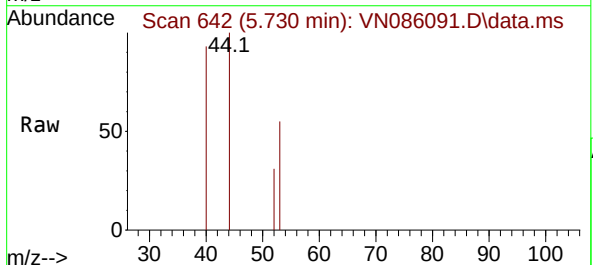
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

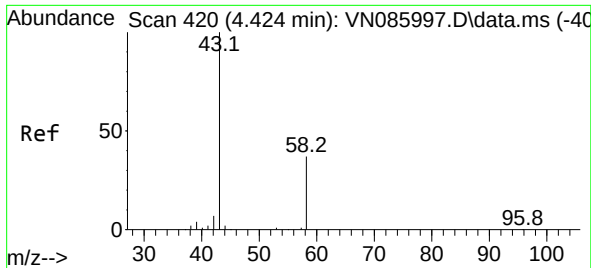
Tgt Ion: 94 Resp: 951
Ion Ratio Lower Upper
94 100
96 56.7 72.8 109.2#



#15
Acrylonitrile
Concen: 0.392 ug/l
RT: 5.730 min Scan# 642
Delta R.T. 0.012 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 53 Resp: 361
Ion Ratio Lower Upper
53 100
52 126.0 63.9 95.9#
51 0.0 27.1 40.7#





#16

Acetone

Concen: 0.308 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

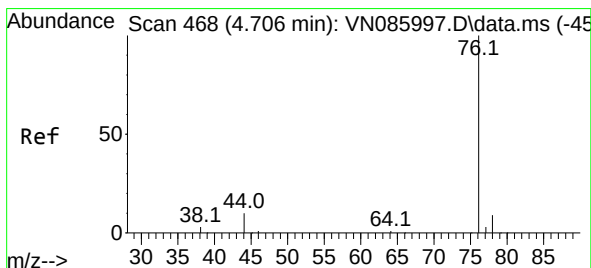
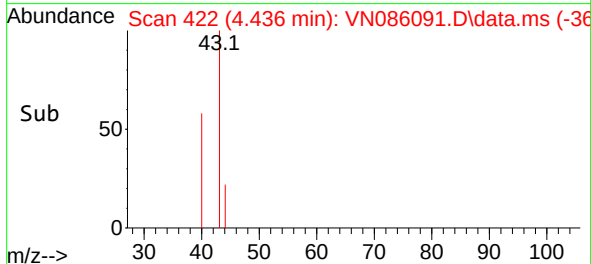
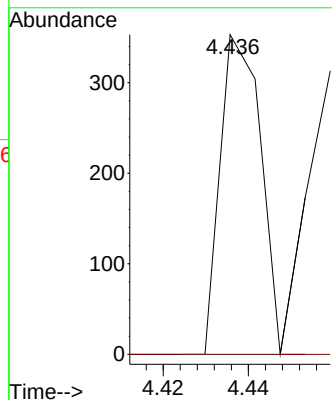
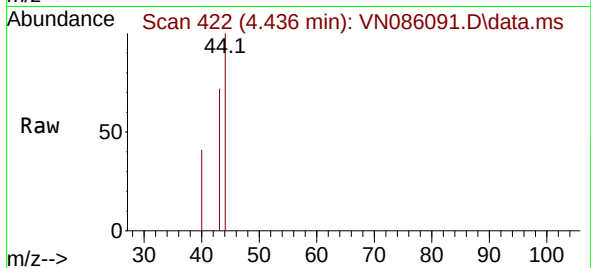
VN0325MBL01

Tgt Ion: 43 Resp: 232

Ion Ratio Lower Upper

43 100

58 0.0 29.4 44.2#



#17

Carbon Disulfide

Concen: 0.466 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN086091.D

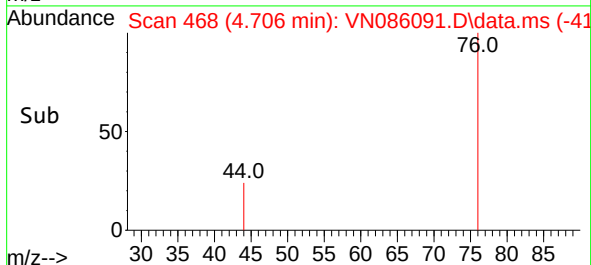
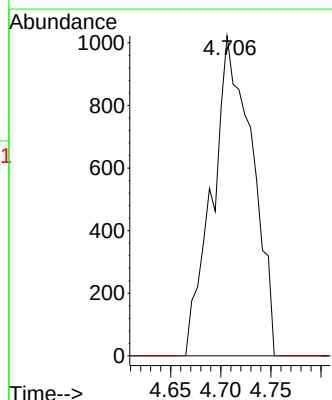
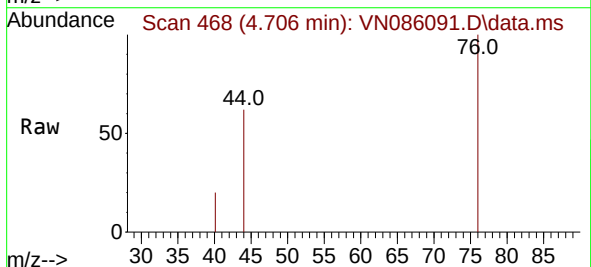
Acq: 25 Mar 2025 11:02

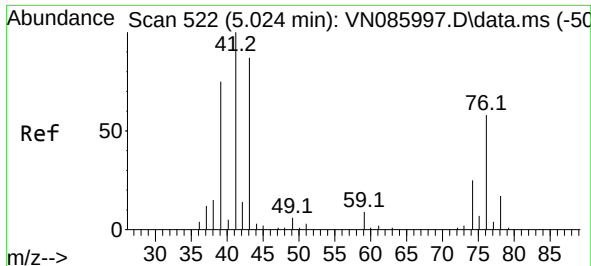
Tgt Ion: 76 Resp: 2828

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

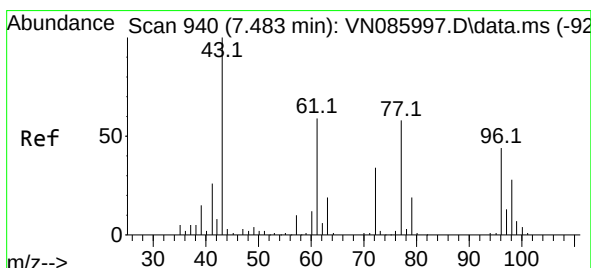
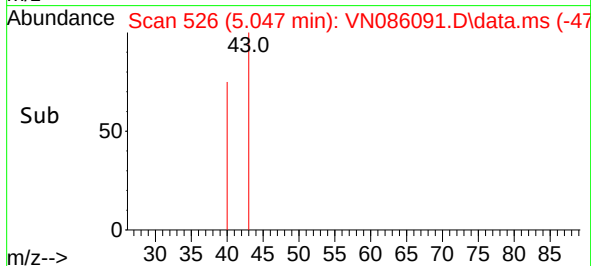
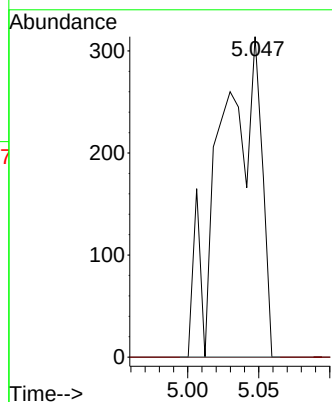
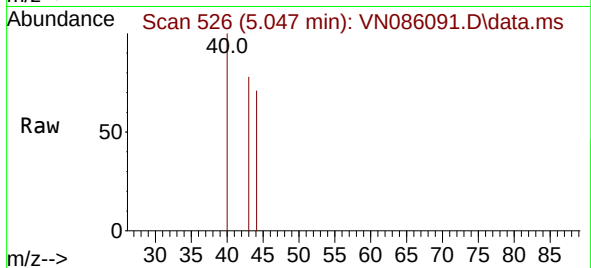




#18
Methyl Acetate
Concen: 0.334 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

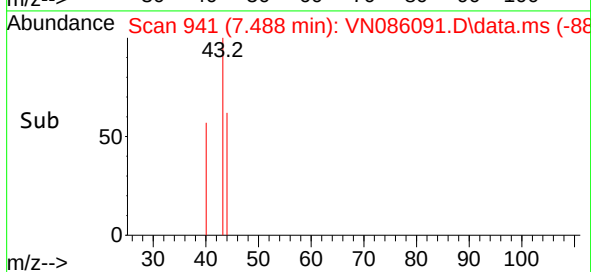
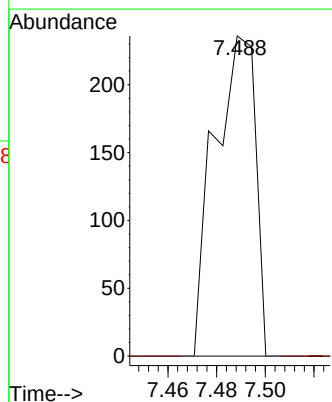
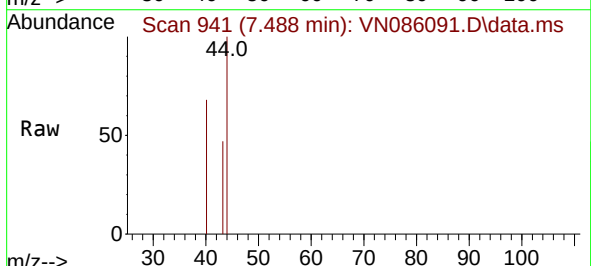
Instrument :
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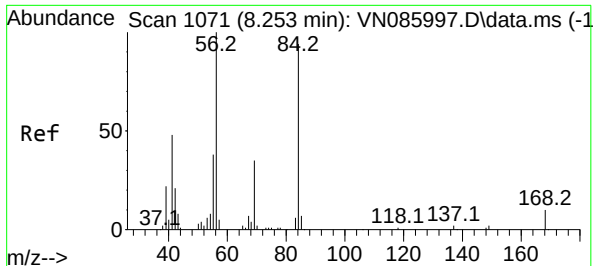
Tgt Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
74 0.0 23.9 35.9#



#25
2-Butanone
Concen: 0.255 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 43 Resp: 277
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#

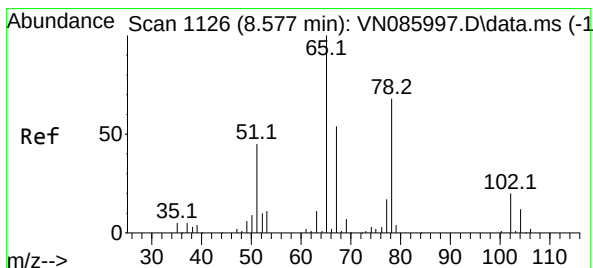
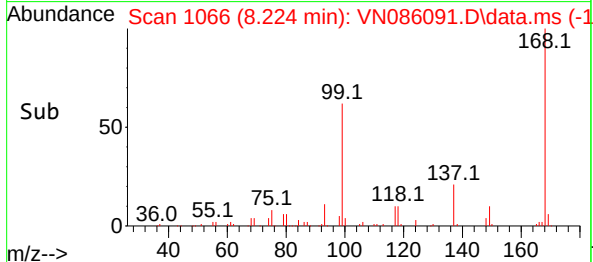
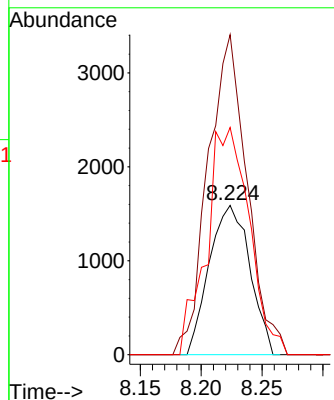
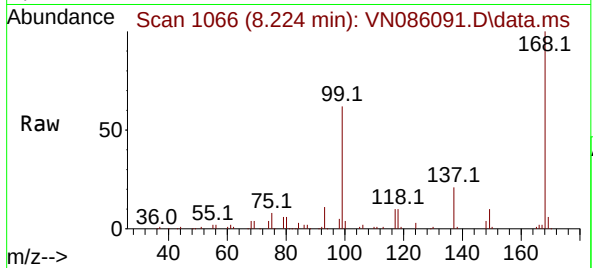




#31
Cyclohexane
Concen: 1.201 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

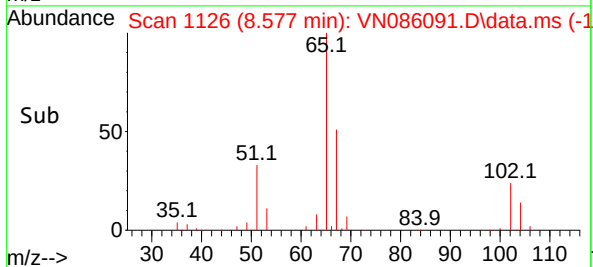
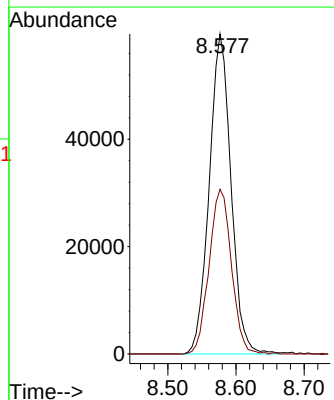
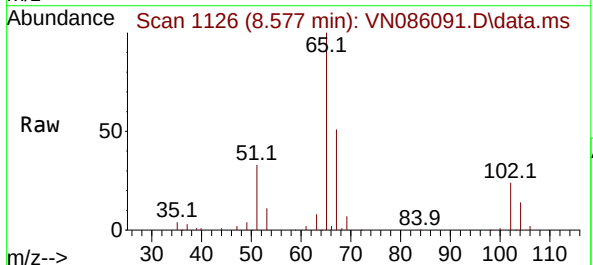
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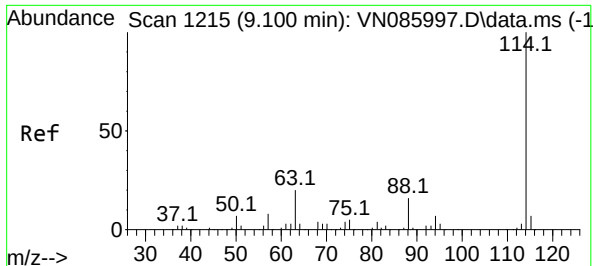
Tgt Ion: 56 Resp: 3690
Ion Ratio Lower Upper
56 100
69 202.7 28.0 42.0#
84 152.1 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 53.762 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 65 Resp: 132527
Ion Ratio Lower Upper
65 100
67 52.8 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0325MBL01

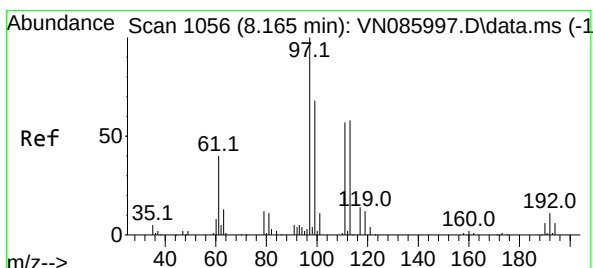
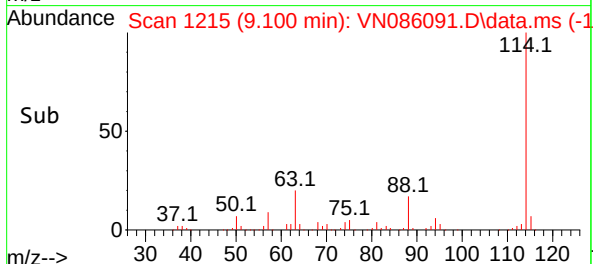
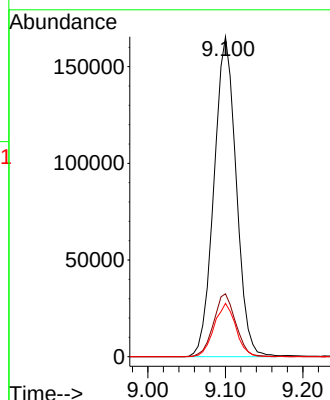
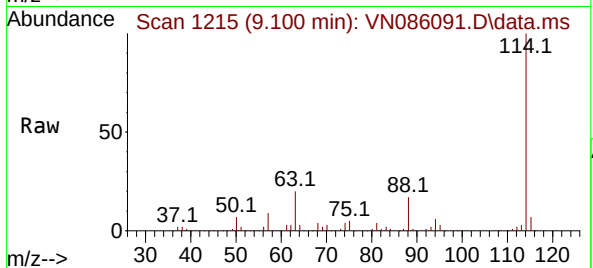
Tgt Ion:114 Resp: 329970

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 16.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.734 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

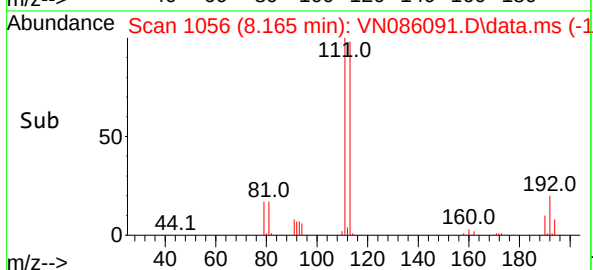
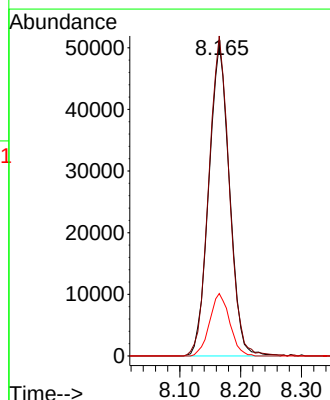
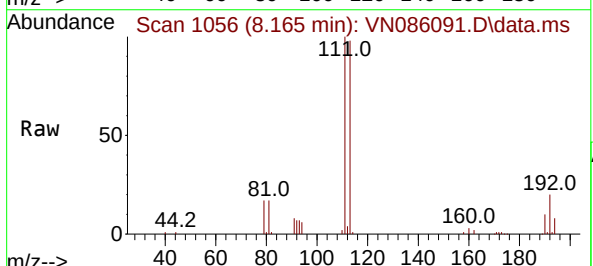
Tgt Ion:113 Resp: 119150

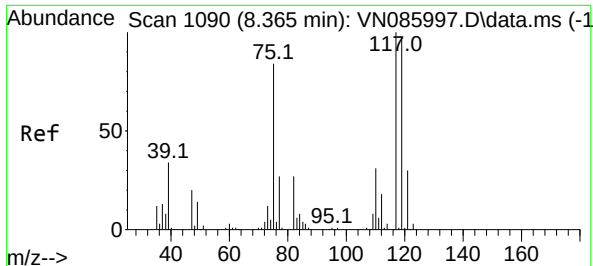
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

192 19.4 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

Instrument :

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ClientSampleId :

VN0325MBL01

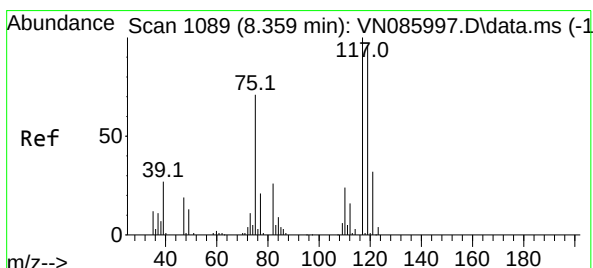
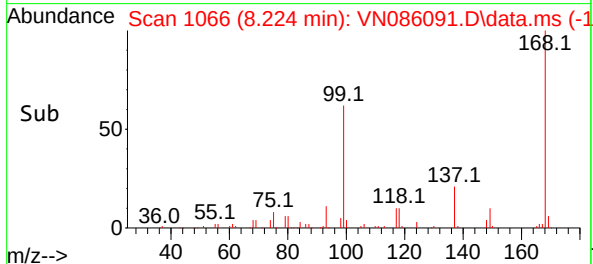
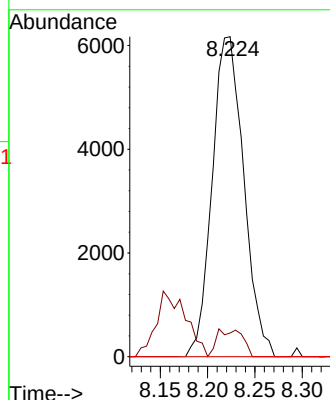
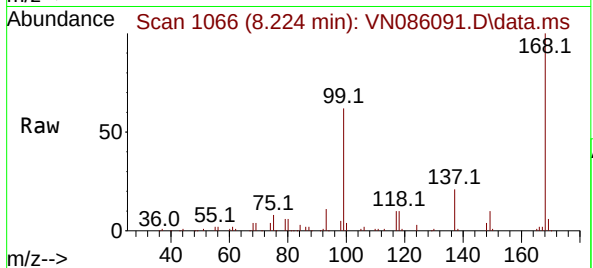
Tgt Ion: 75 Resp: 14318

Ion Ratio Lower Upper

75 100

110 6.9 17.8 53.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.784 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

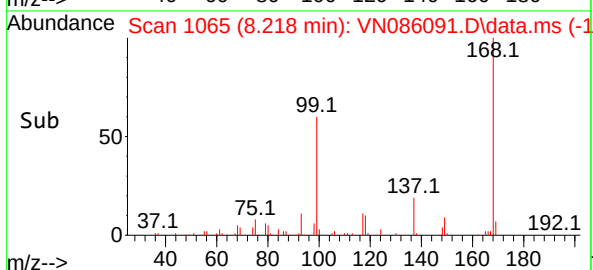
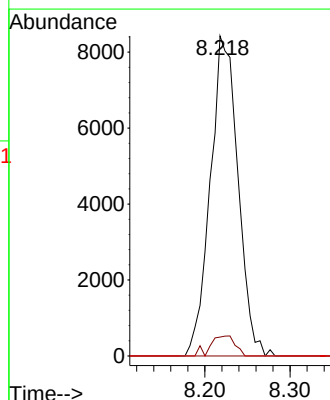
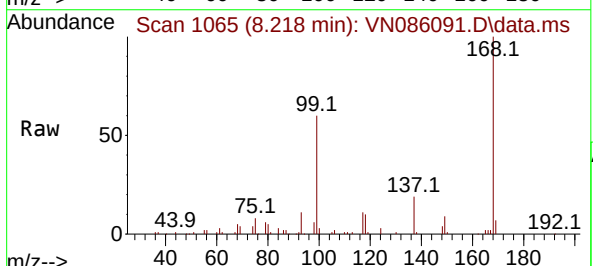
Tgt Ion: 117 Resp: 19076

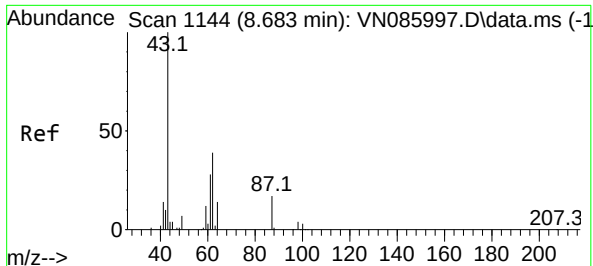
Ion Ratio Lower Upper

117 100

119 5.9 77.0 115.4#

121 0.0 25.6 38.4#

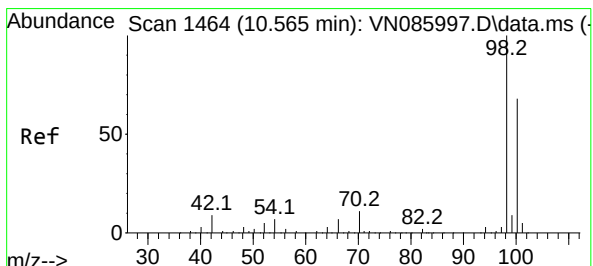
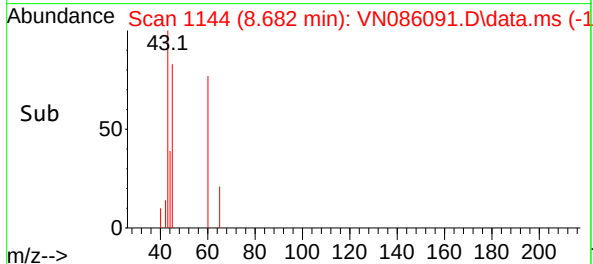
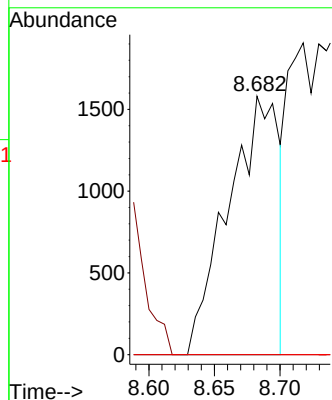
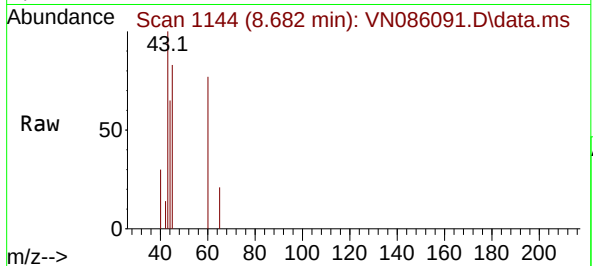




#43
Isopropyl Acetate
Concen: 0.768 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

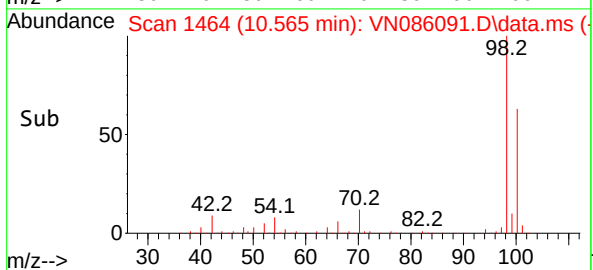
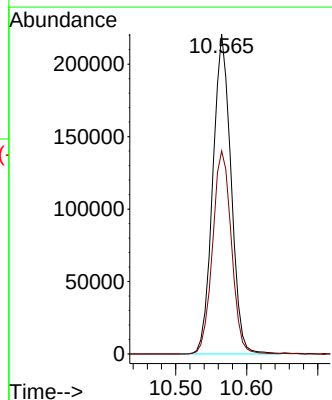
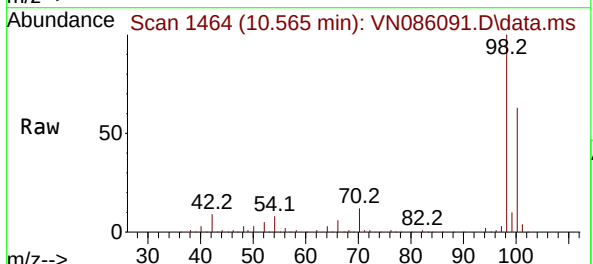
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

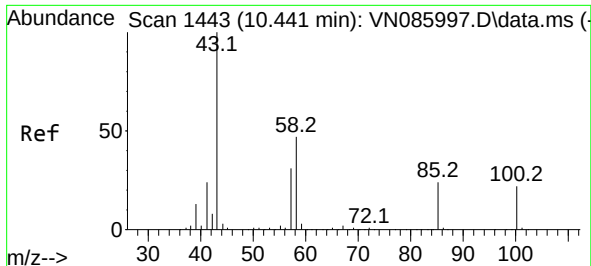
Tgt Ion: 43 Resp: 4259
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#50
Toluene-d8
Concen: 47.034 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 98 Resp: 393152
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7

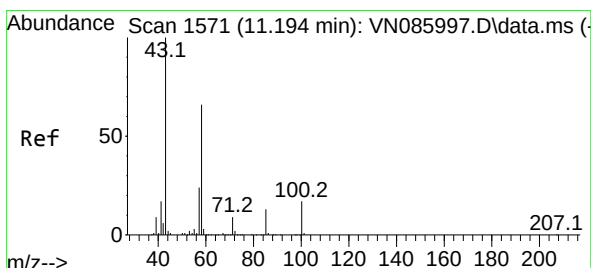
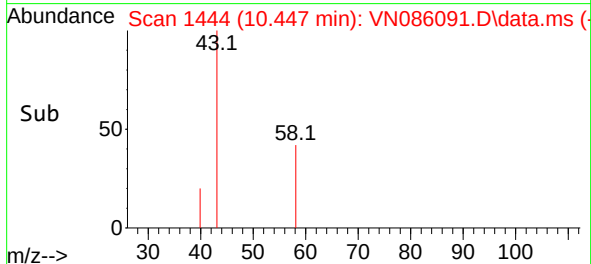
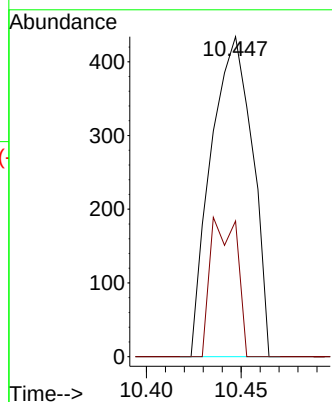
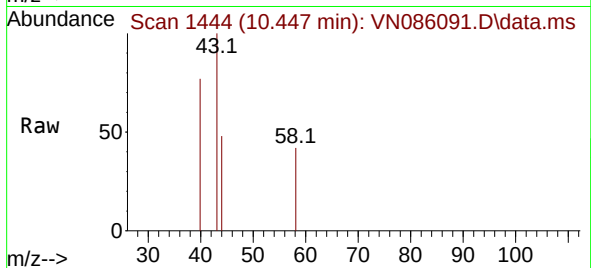




#51
4-Methyl-2-Pentanone
Concen: 0.270 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

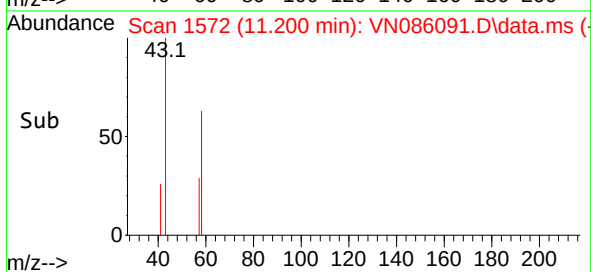
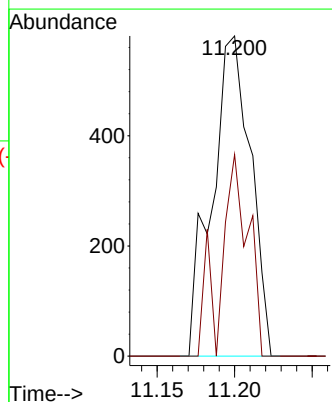
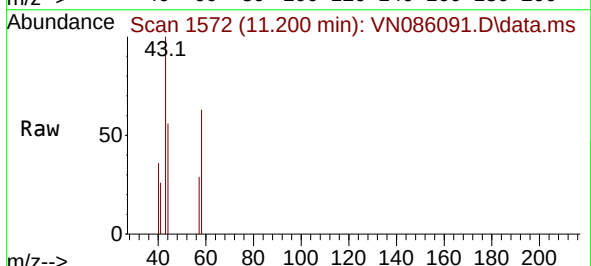
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

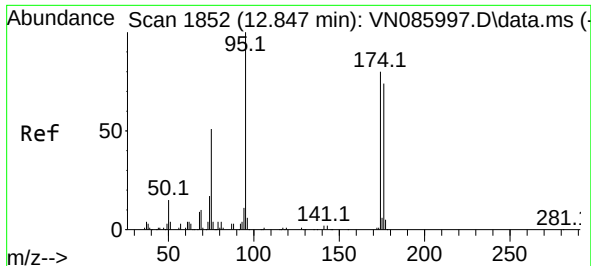
Tgt Ion: 43 Resp: 660
Ion Ratio Lower Upper
43 100
58 28.0 37.4 56.0#



#59
2-Hexanone
Concen: 0.567 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 43 Resp: 1010
Ion Ratio Lower Upper
43 100
58 45.1 32.4 97.2

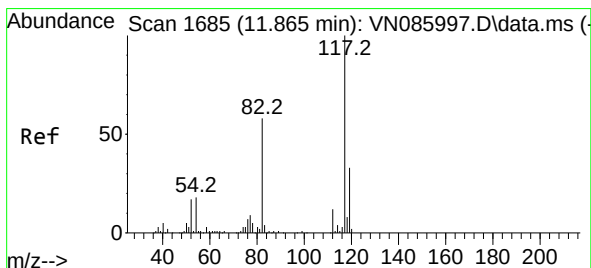
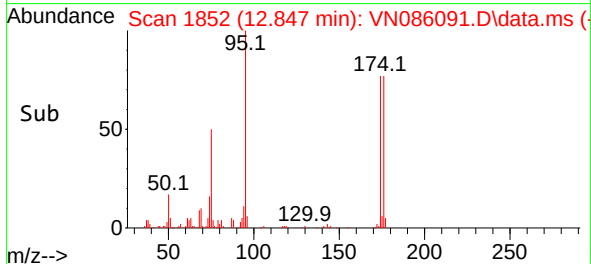
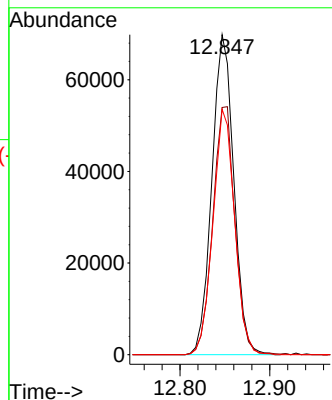
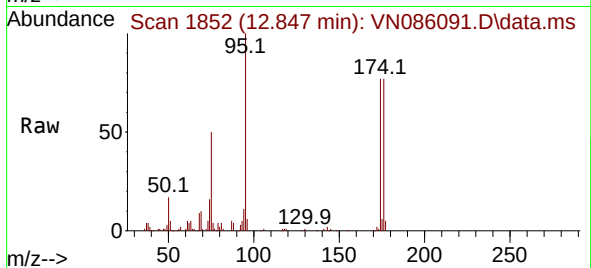




#62
4-Bromofluorobenzene
Concen: 39.661 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

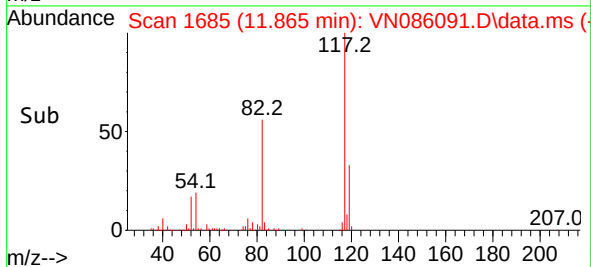
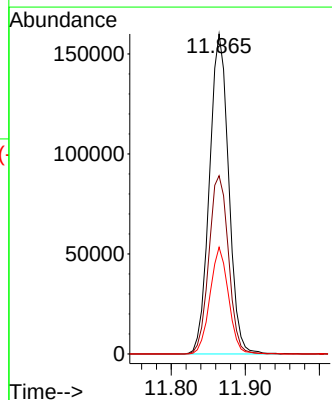
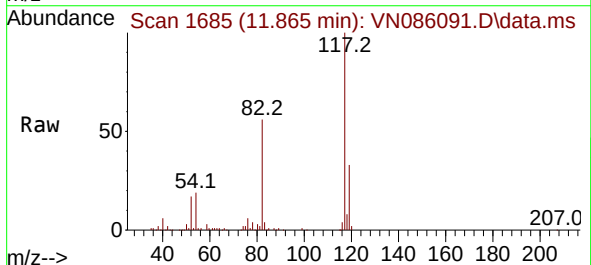
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

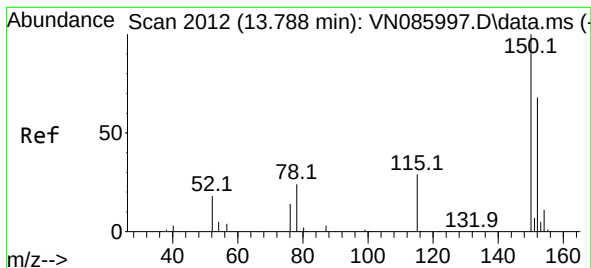
Tgt Ion: 95 Resp: 118229
Ion Ratio Lower Upper
95 100
174 78.6 0.0 156.8
176 76.0 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 117 Resp: 287970
Ion Ratio Lower Upper
117 100
82 55.7 46.7 70.1
119 33.3 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: VN086091.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0325MBL01

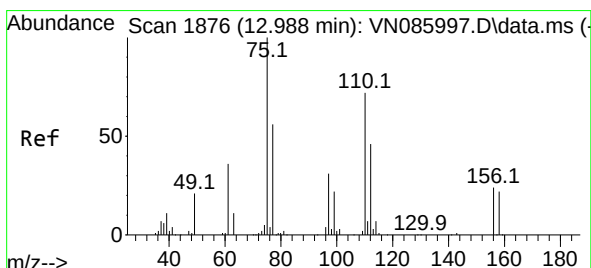
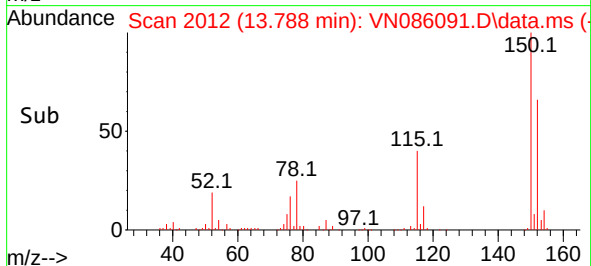
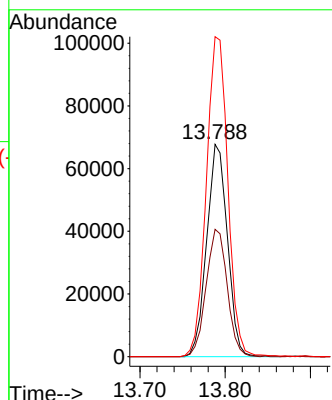
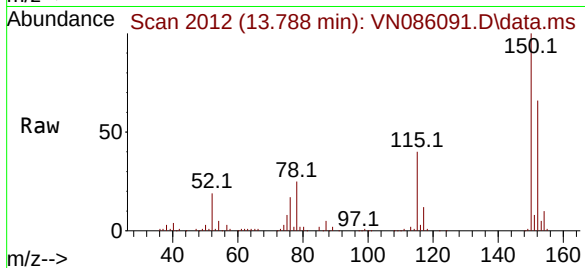
Tgt Ion:152 Resp: 114422

Ion Ratio Lower Upper

152 100

115 61.1 31.1 93.2

150 156.3 0.0 359.6



#76

1,2,3-Trichloropropane

Concen: 22.771 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086091.D

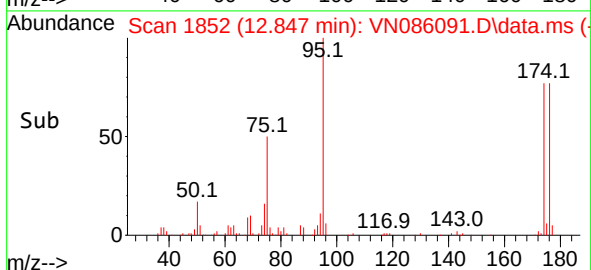
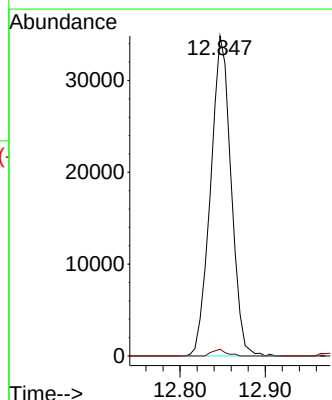
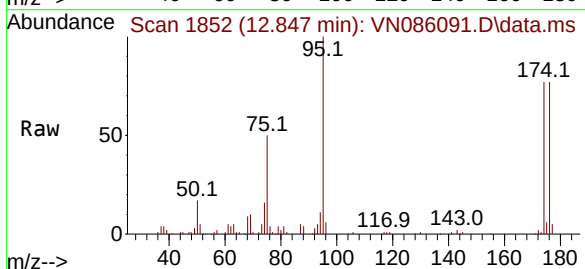
Acq: 25 Mar 2025 11:02

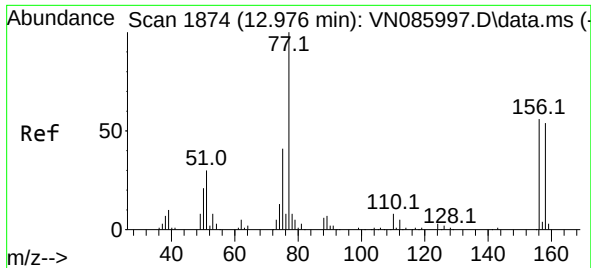
Tgt Ion: 75 Resp: 58332

Ion Ratio Lower Upper

75 100

77 1.5 83.7 251.0#

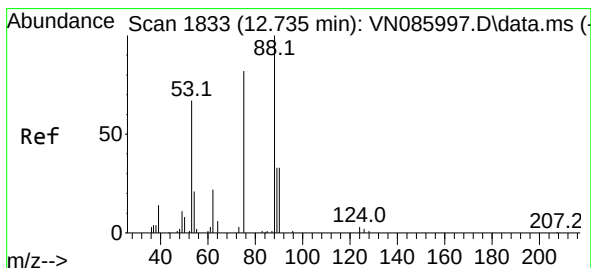
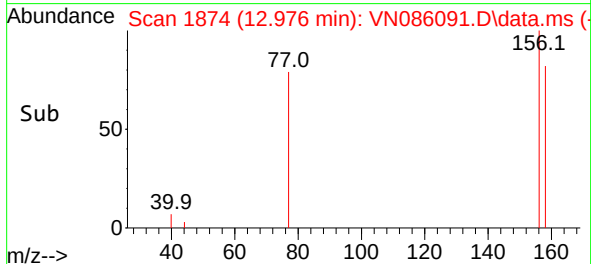
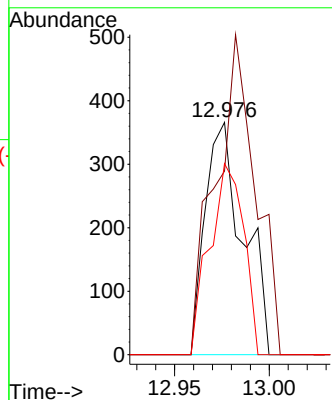
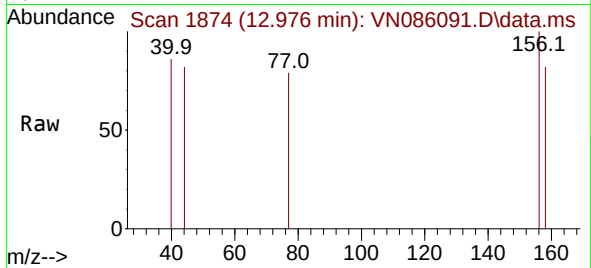




#77
Bromobenzene
Concen: 0.234 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

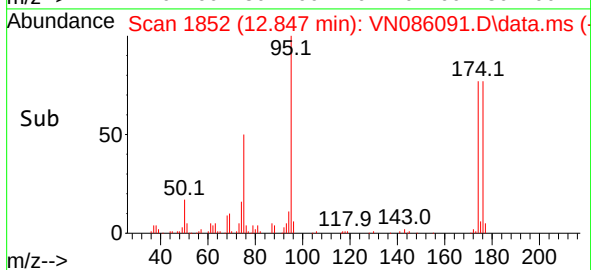
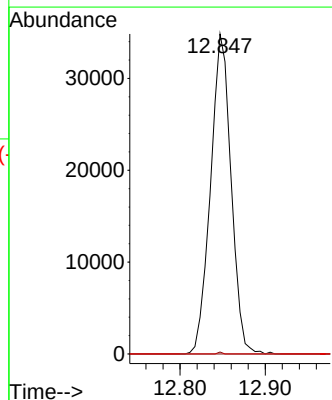
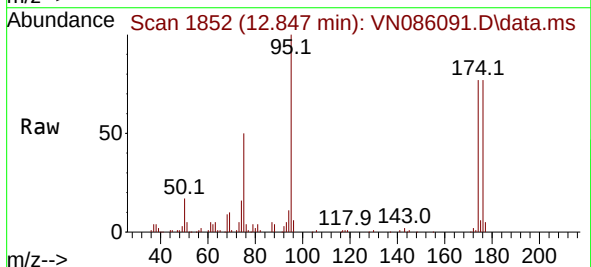
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

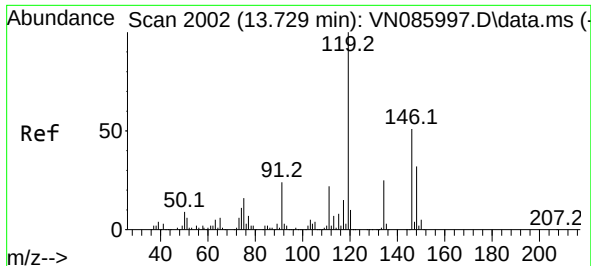
Tgt Ion:156 Resp: 510
Ion Ratio Lower Upper
156 100
77 144.9 104.1 312.3
158 74.1 49.0 147.0



#81
trans-1,4-Dichloro-2-butene
Concen: 60.202 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 75 Resp: 58332
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#

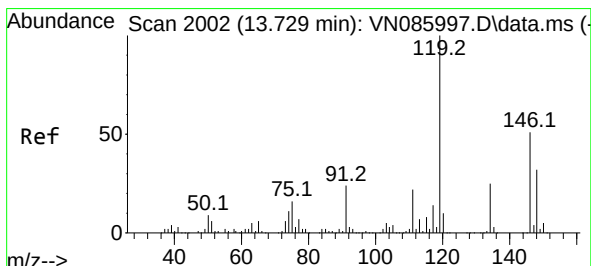
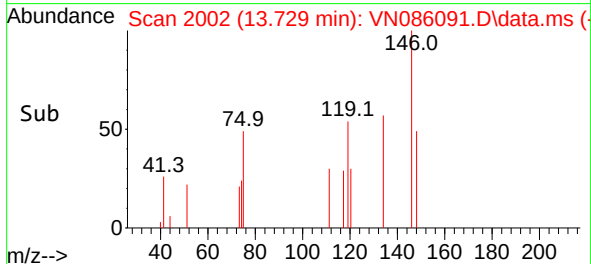
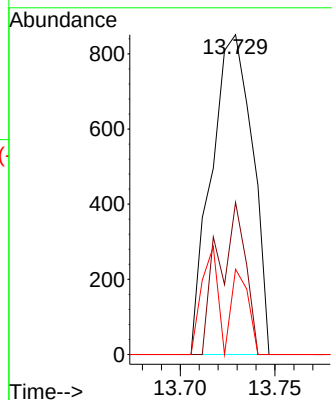
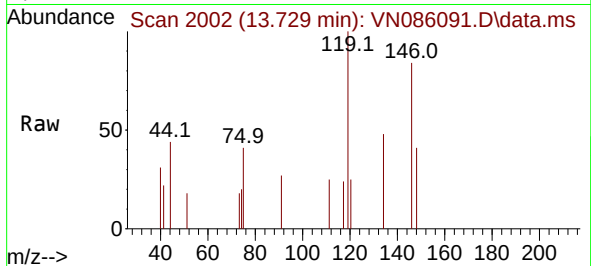




#86
p-Isopropyltoluene
Concen: 0.206 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

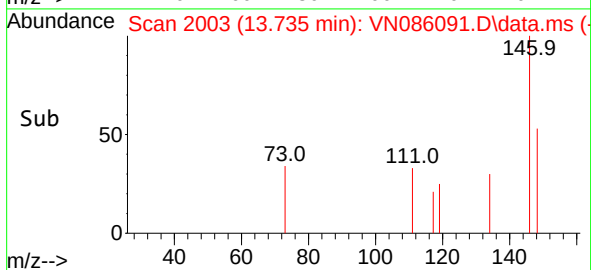
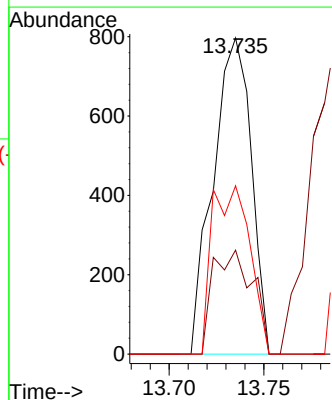
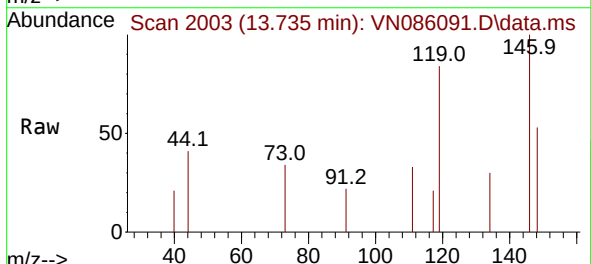
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

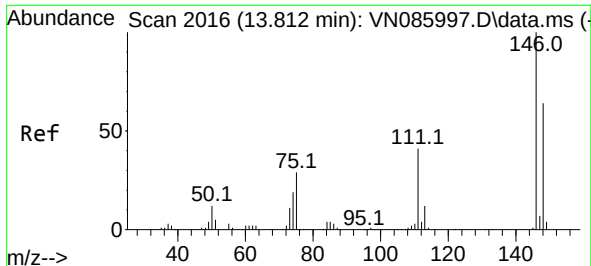
Tgt Ion:	119	Resp:	1284
Ion	Ratio	Lower	Upper
119	100		
134	31.4	12.6	37.8
91	13.3	12.3	36.8



#87
1,3-Dichlorobenzene
Concen: 0.284 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion:	146	Resp:	1117
Ion	Ratio	Lower	Upper
146	100		
111	34.1	21.2	63.6
148	52.7	31.8	95.4

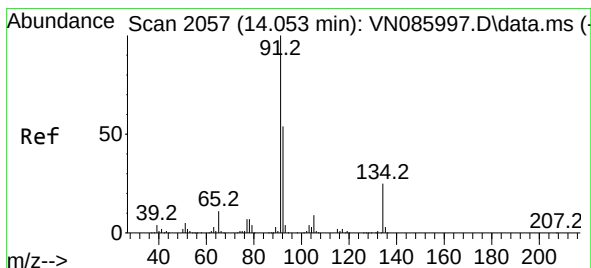
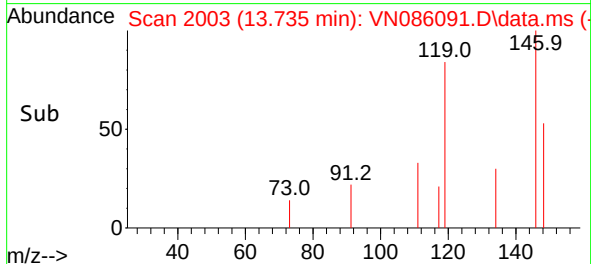
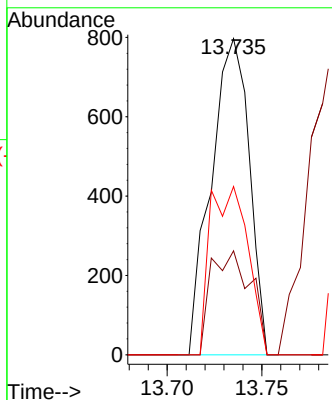
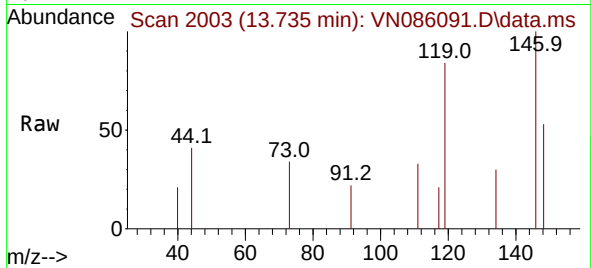




#88
 1,4-Dichlorobenzene
 Concen: 0.271 ug/l
 RT: 13.735 min Scan# 2016
 Delta R.T. -0.077 min
 Lab File: VN086091.D
 Acq: 25 Mar 2025 11:02

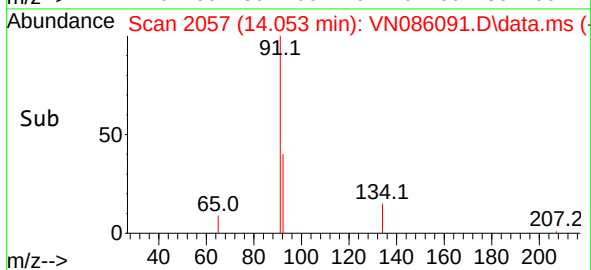
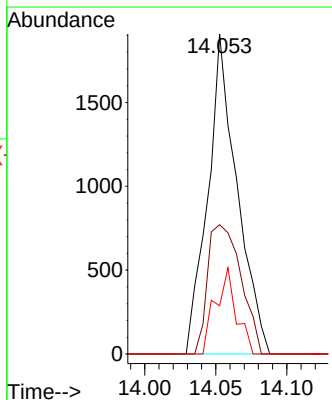
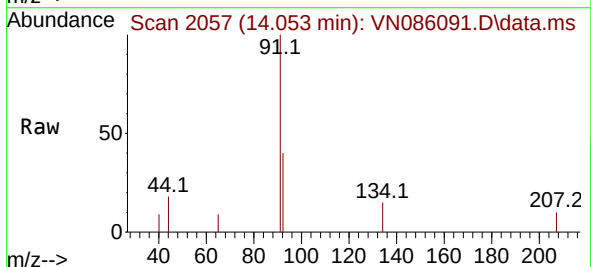
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0325MBL01

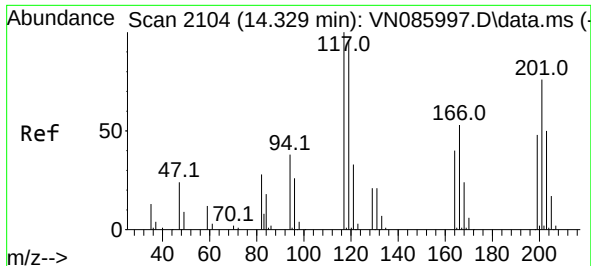
Tgt Ion:146 Resp: 1117
 Ion Ratio Lower Upper
 146 100
 111 34.1 20.4 61.3
 148 52.7 32.1 96.5



#89
 n-Butylbenzene
 Concen: 0.539 ug/l
 RT: 14.053 min Scan# 2057
 Delta R.T. -0.000 min
 Lab File: VN086091.D
 Acq: 25 Mar 2025 11:02

Tgt Ion: 91 Resp: 2735
 Ion Ratio Lower Upper
 91 100
 92 46.1 26.9 80.6
 134 19.2 13.0 39.0

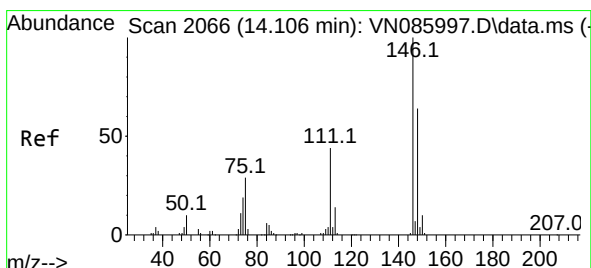
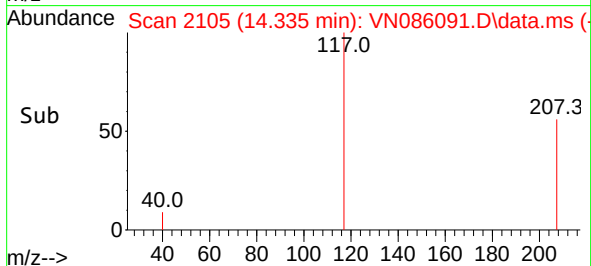
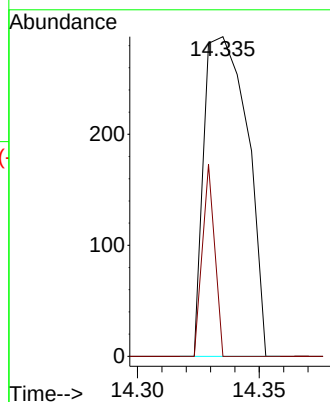
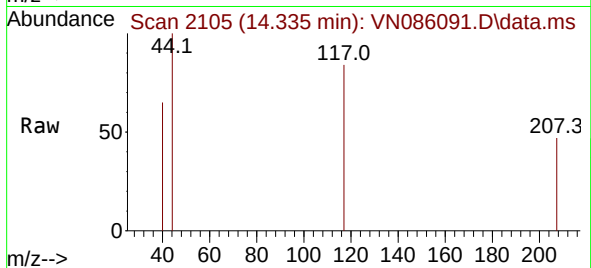




#90
Hexachloroethane
Concen: 0.248 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

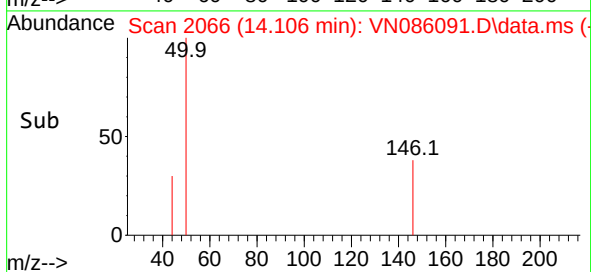
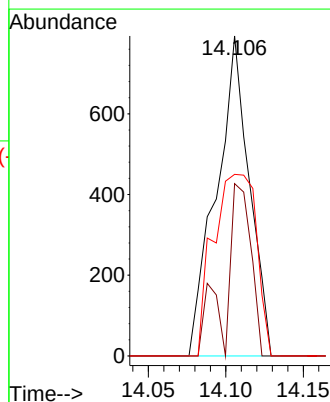
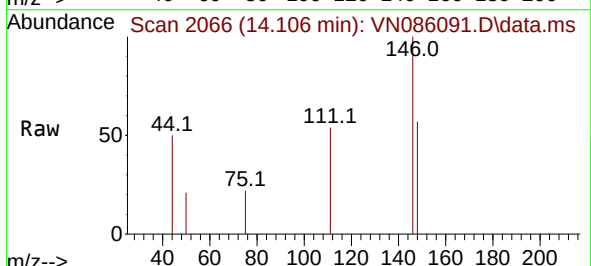
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

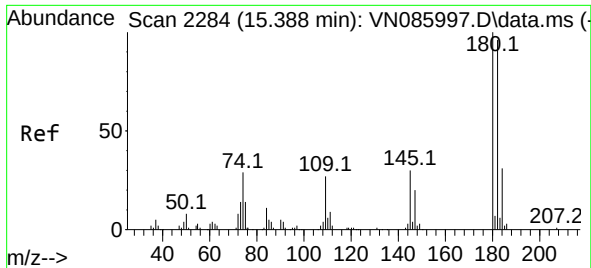
Tgt Ion:117 Resp: 356
Ion Ratio Lower Upper
117 100
201 17.1 39.1 117.3#



#91
1,2-Dichlorobenzene
Concen: 0.301 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion:146 Resp: 1174
Ion Ratio Lower Upper
146 100
111 42.0 22.3 66.8
148 74.2 32.1 96.5

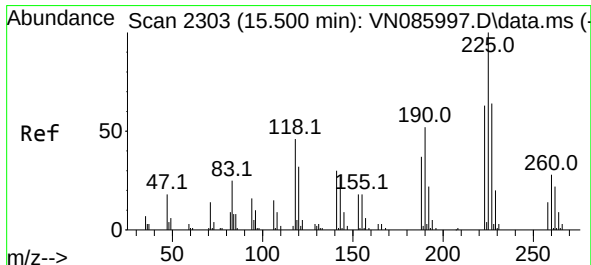
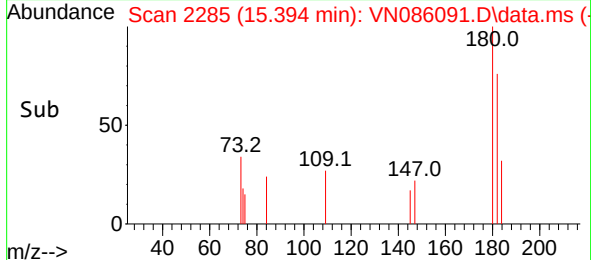
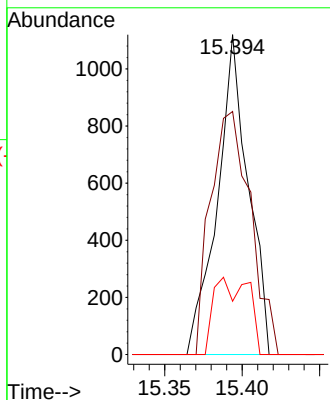
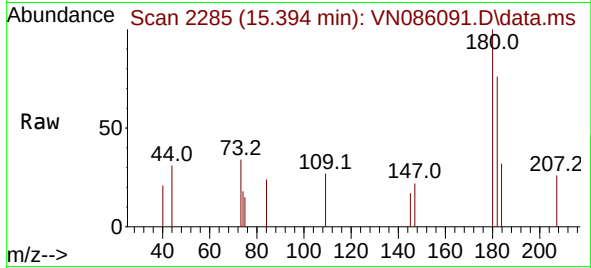




#93
1,2,4-Trichlorobenzene
Concen: 0.788 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

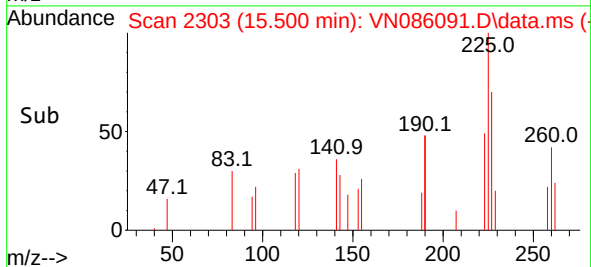
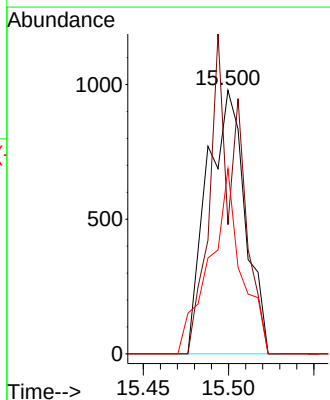
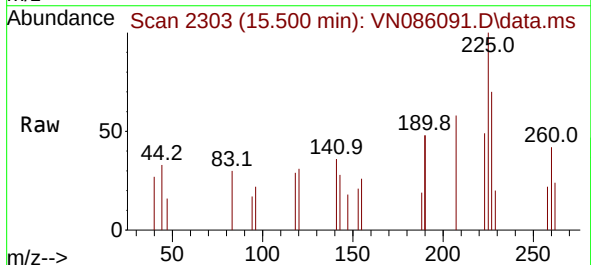
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

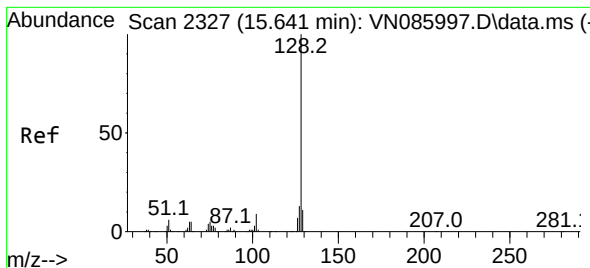
Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.8	47.0	141.0
145	27.2	15.5	46.5



#94
Hexachlorobutadiene
Concen: 1.336 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086091.D
Acq: 25 Mar 2025 11:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	90.3	31.3	93.9
227	58.4	32.1	96.3





#95

Naphthalene

Concen: 1.296 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0325MBL01

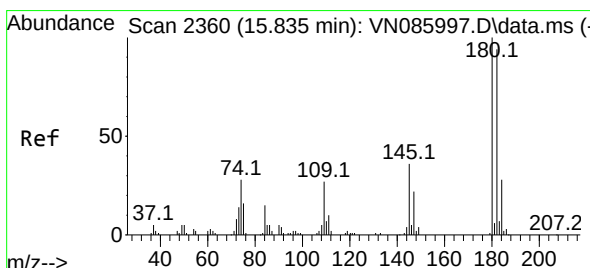
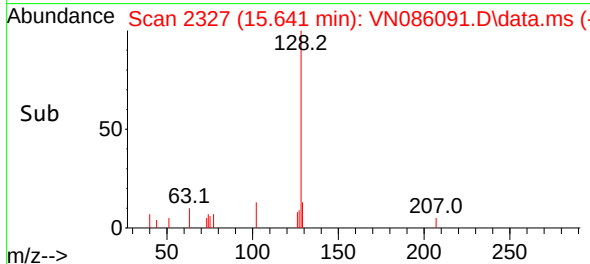
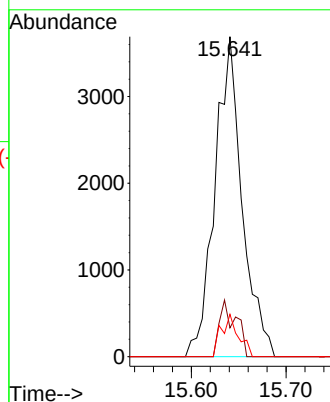
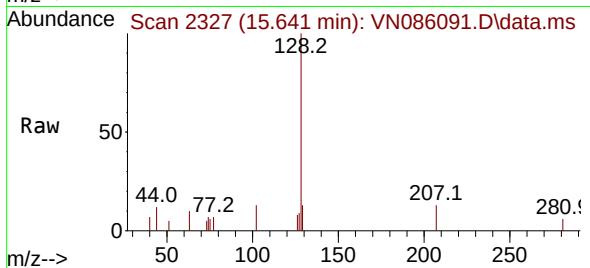
Tgt Ion:128 Resp: 7369

Ion Ratio Lower Upper

128 100

127 10.8 10.2 15.4

129 8.4 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 1.189 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.012 min

Lab File: VN086091.D

Acq: 25 Mar 2025 11:02

Tgt Ion:180 Resp: 2215

Ion Ratio Lower Upper

180 100

182 104.2 47.5 142.5

145 29.9 17.7 53.1

