

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086124.D
 Acq On : 26 Mar 2025 14:23
 Operator : JC\MD
 Sample : Q1634-01ME
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-032425

Quant Time: Mar 27 01:36:56 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)

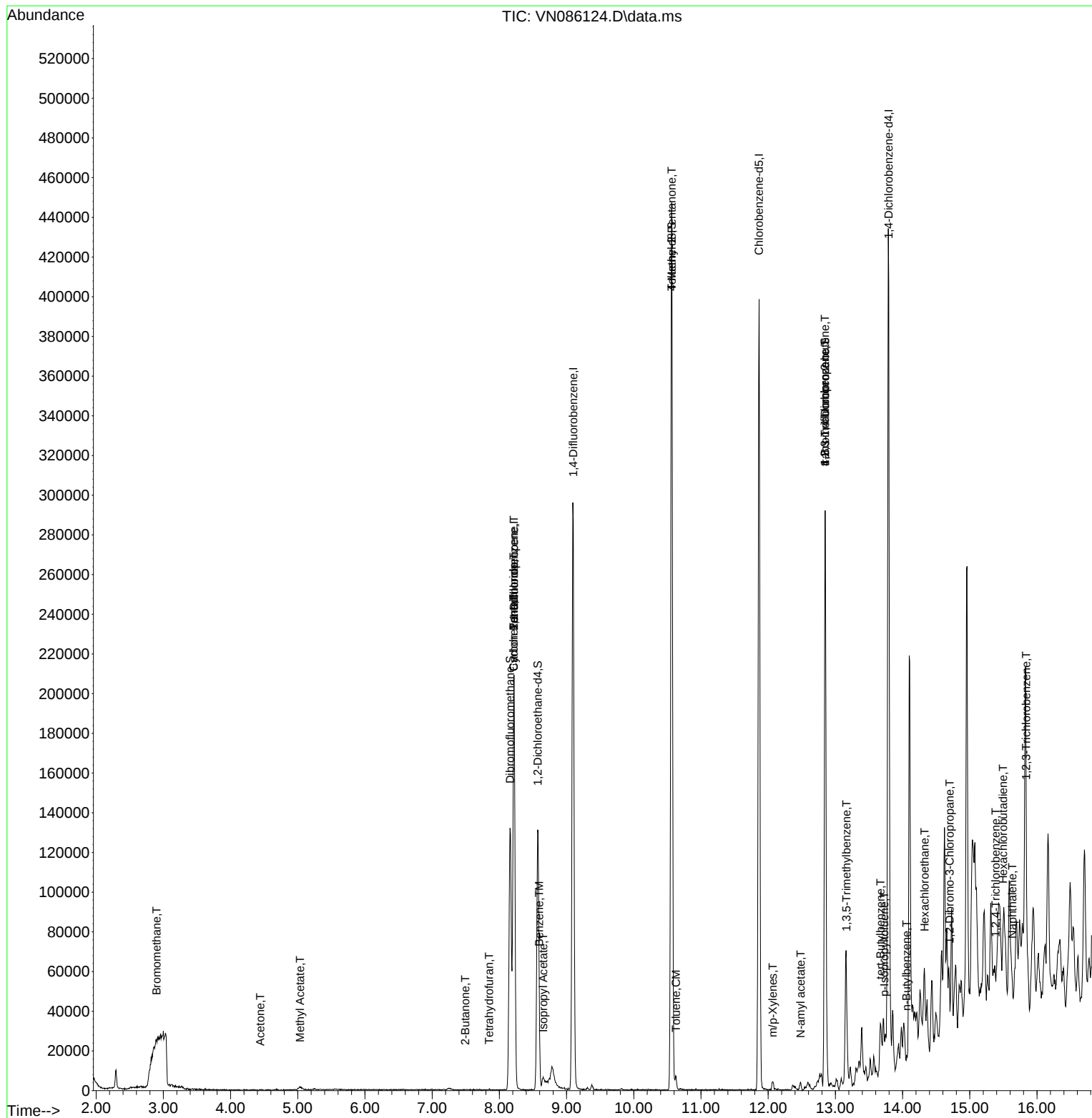
Internal Standards						
1) Pentafluorobenzene	8.218	168	144213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	233241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	113248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	111909	56.669	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.340%			
35) Dibromofluoromethane	8.159	113	97291	53.765	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.540%			
50) Toluene-d8	10.565	98	317317	48.317	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.640%			
62) 4-Bromofluorobenzene	12.847	95	100302	42.825	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.660%			
Target Compounds					Qvalue	
5) Bromomethane	2.900	94	1207	1.035	ug/l	94
16) Acetone	4.441	43	386	0.640	ug/l #	38
18) Methyl Acetate	5.036	43	3208	2.149	ug/l #	85
25) 2-Butanone	7.494	43	180	0.207	ug/l #	40
29) Tetrahydrofuran	7.847	42	142	0.264	ug/l #	24
31) Cyclohexane	8.212	56	2958	1.202	ug/l #	32
36) 1,1-Dichloropropene	8.218	75	11778	4.943	ug/l #	49
38) Carbon Tetrachloride	8.212	117	15402	4.916	ug/l #	17
40) Benzene	8.594	78	1946	0.260	ug/l #	52
43) Isopropyl Acetate	8.653	43	5314	1.220	ug/l #	50
51) 4-Methyl-2-Pentanone	10.565	43	1183	0.616	ug/l #	1
52) Toluene	10.629	92	1796	0.391	ug/l	88
68) m/p-Xylenes	12.070	106	786	0.234	ug/l	83
74) N-amyl acetate	12.482	43	958	0.370	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	49420	19.492	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.164	105	4223	0.647	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.847	75	49420	51.533	ug/l #	16
83) tert-Butylbenzene	13.670	119	2822	0.505	ug/l	93
86) p-Isopropyltoluene	13.729	119	2116	0.343	ug/l #	73
89) n-Butylbenzene	14.059	91	1168	0.233	ug/l #	63
90) Hexachloroethane	14.329	117	1999	1.405	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.700	75	117	0.224	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.388	180	825	0.425	ug/l #	1
94) Hexachlorobutadiene	15.494	225	561	0.498	ug/l	74
95) Naphthalene	15.635	128	5961	1.060	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.841	180	407	0.221	ug/l #	1

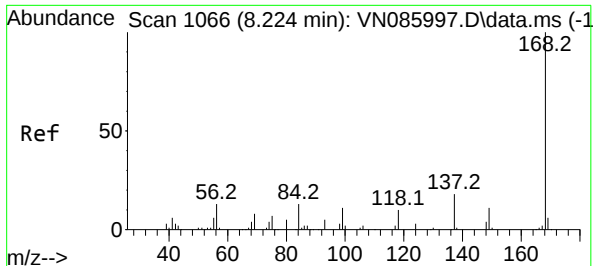
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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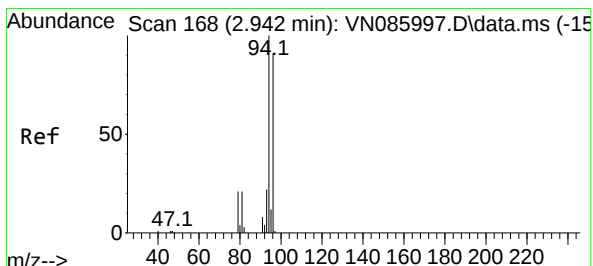
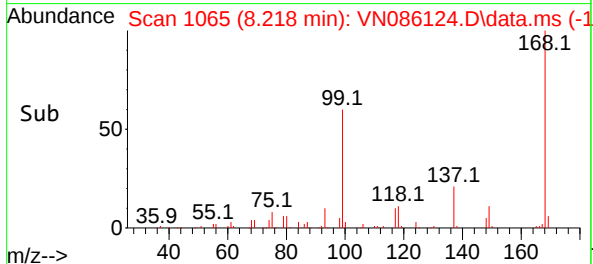
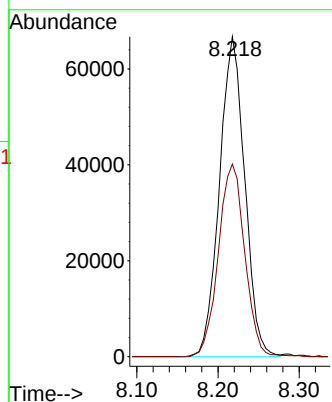
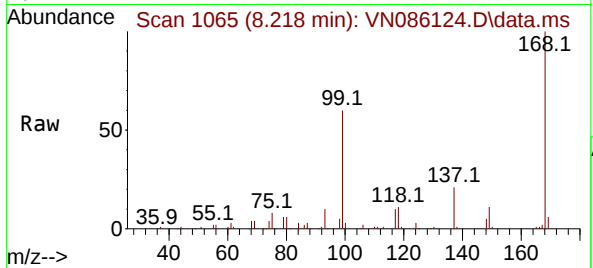




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

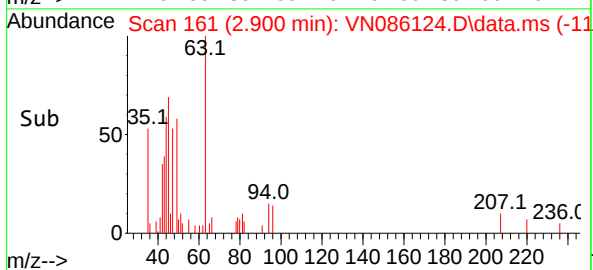
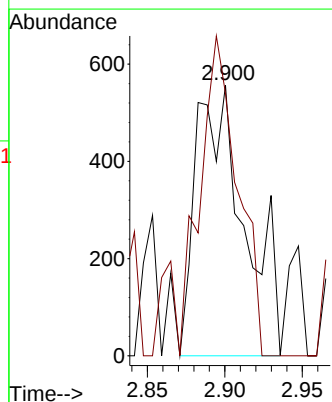
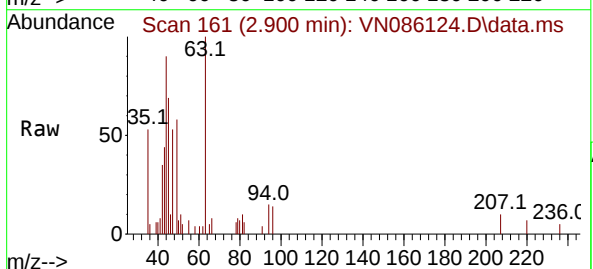
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

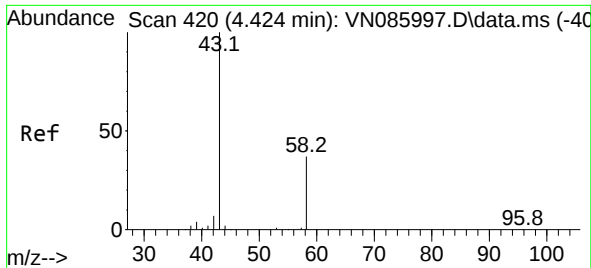
Tgt Ion:168 Resp: 144213
Ion Ratio Lower Upper
168 100
99 60.2 49.4 74.2



#5
Bromomethane
Concen: 1.035 ug/l
RT: 2.900 min Scan# 161
Delta R.T. -0.041 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 94 Resp: 1207
Ion Ratio Lower Upper
94 100
96 96.9 72.8 109.2





#16

Acetone

Concen: 0.640 ug/l

RT: 4.441 min Scan# 43

Delta R.T. 0.017 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

Instrument :

MSVOA_N

ClientSampleId :

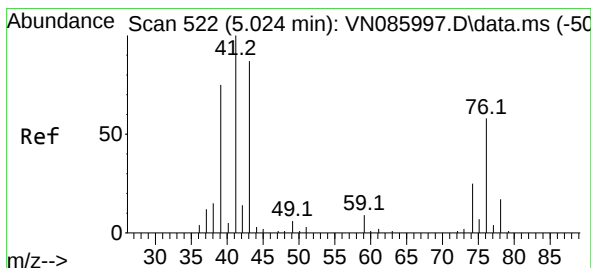
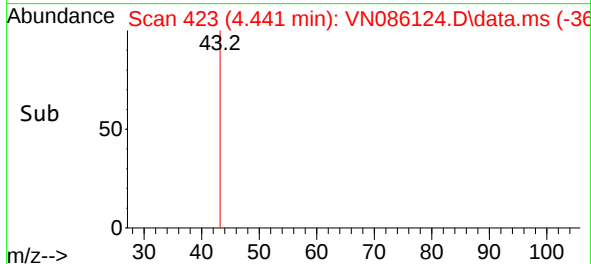
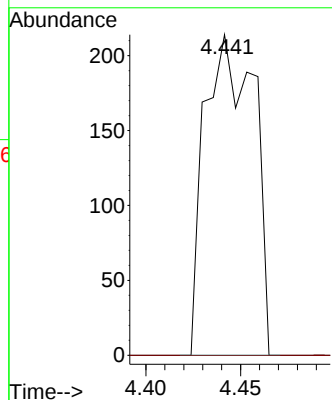
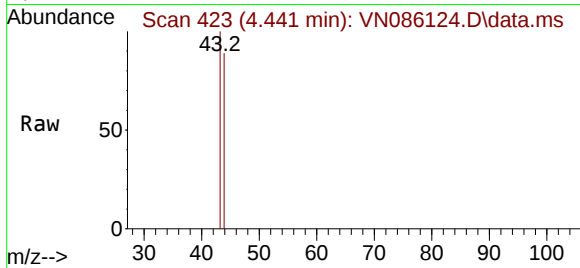
HR-01-032425

Tgt Ion: 43 Resp: 386

Ion Ratio Lower Upper

43 100

58 0.0 29.4 44.2#



#18

Methyl Acetate

Concen: 2.149 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.011 min

Lab File: VN086124.D

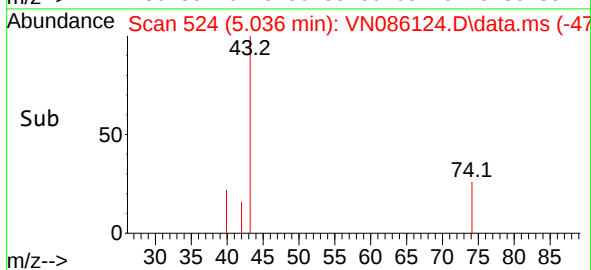
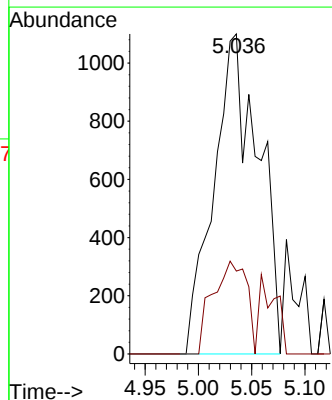
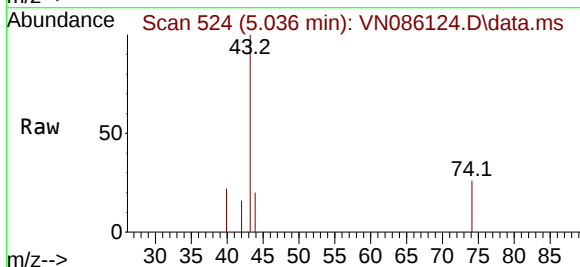
Acq: 26 Mar 2025 14:23

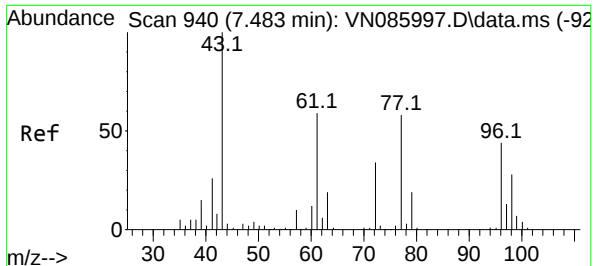
Tgt Ion: 43 Resp: 3208

Ion Ratio Lower Upper

43 100

74 22.0 23.9 35.9#

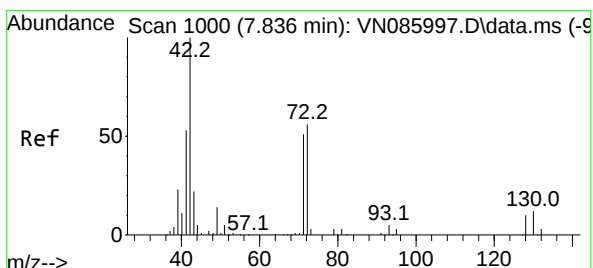
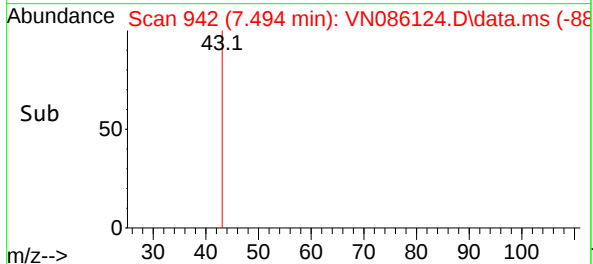
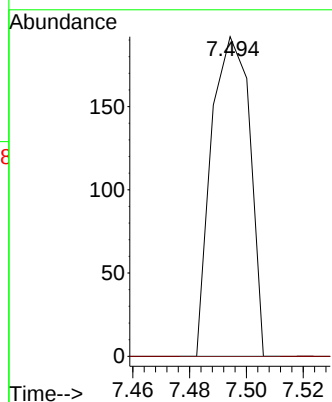
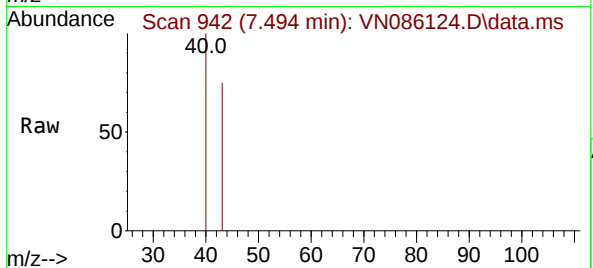




#25
2-Butanone
Concen: 0.207 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.011 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

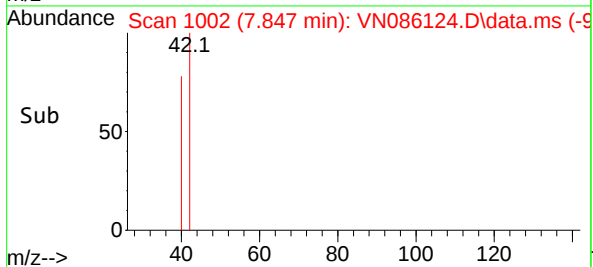
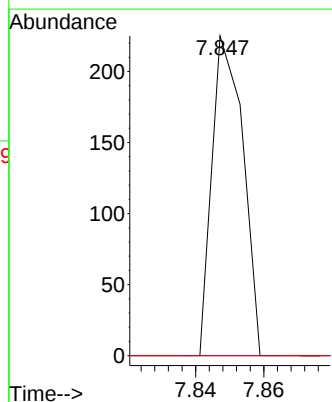
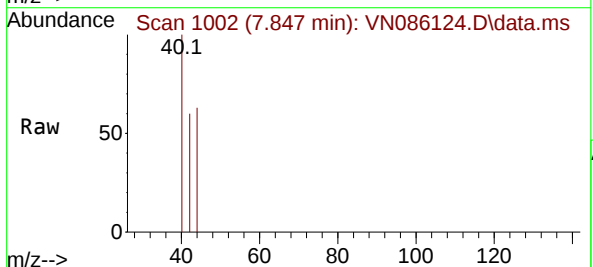
Instrument :
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HR-01-032425

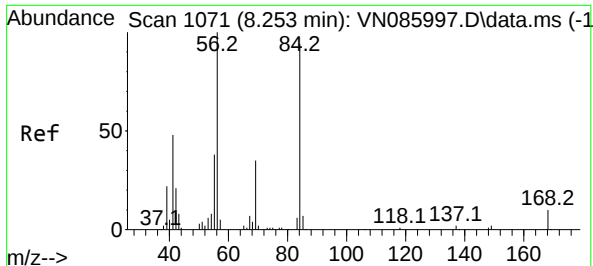
Tgt Ion: 43 Resp: 180
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#



#29
Tetrahydrofuran
Concen: 0.264 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.011 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 42 Resp: 142
Ion Ratio Lower Upper
42 100
72 0.0 45.0 67.4#
71 0.0 41.9 62.9#

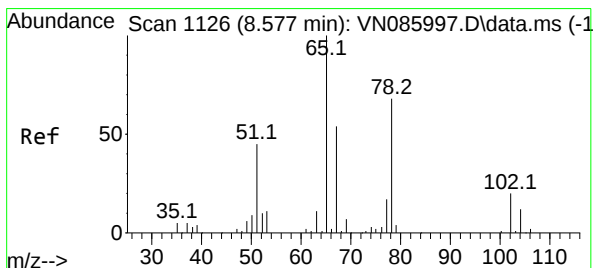
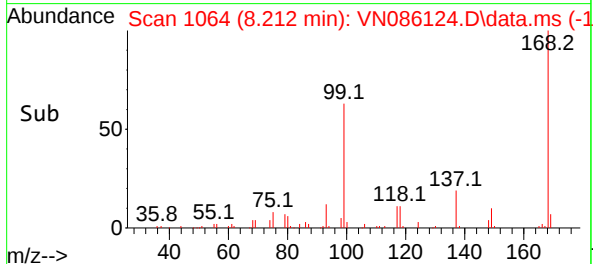
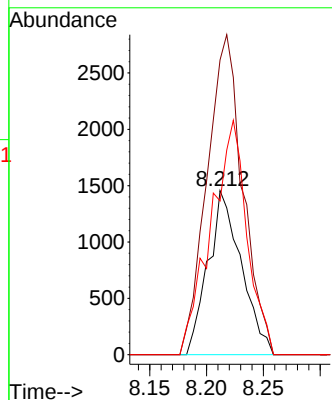
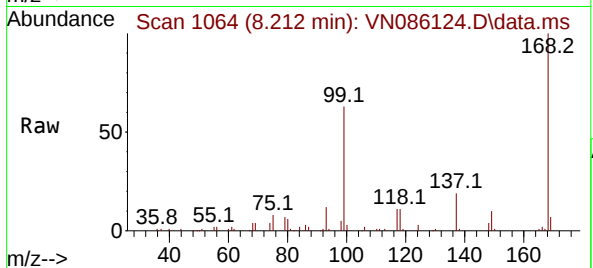




#31
Cyclohexane
Concen: 1.202 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

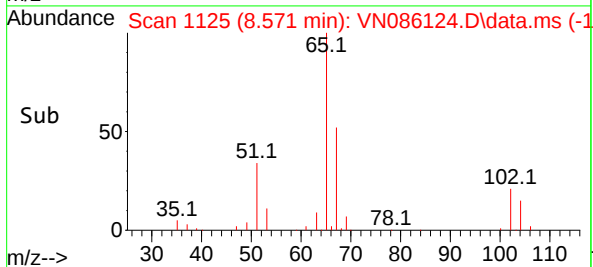
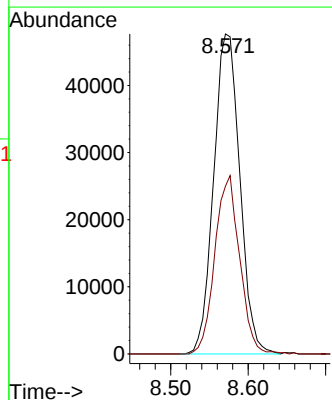
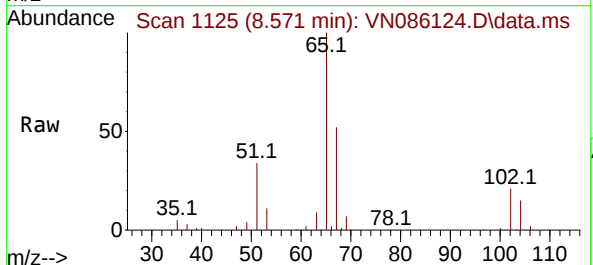
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

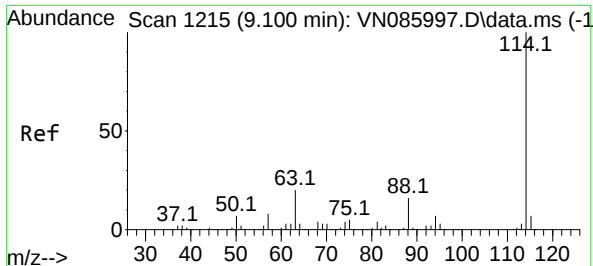
Tgt Ion: 56 Resp: 2958
Ion Ratio Lower Upper
56 100
69 179.8 28.0 42.0#
84 93.8 75.0 112.6



#33
1,2-Dichloroethane-d4
Concen: 56.669 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 65 Resp: 111909
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# 1

Delta R.T. -0.000 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

Instrument :

MSVOA_N

ClientSampleId :

HR-01-032425

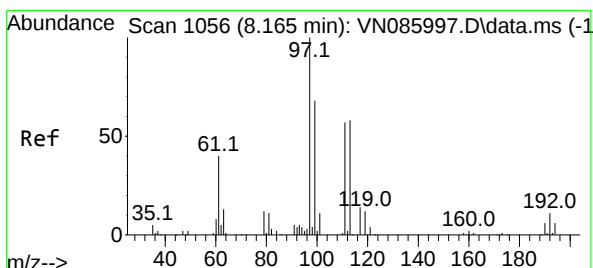
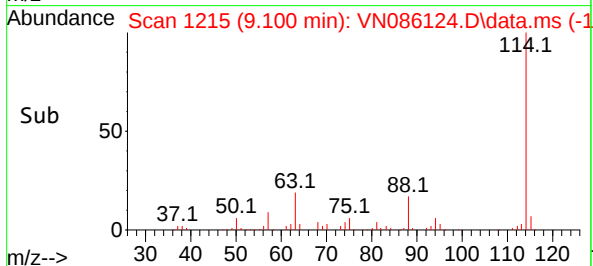
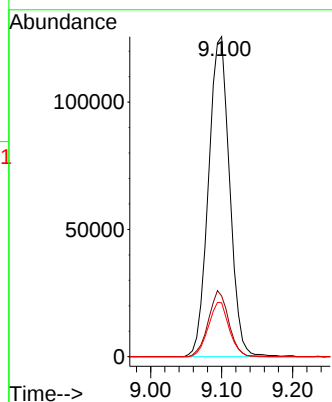
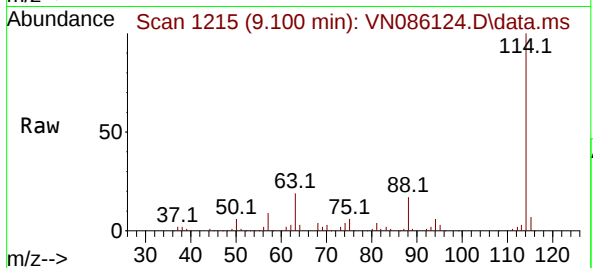
Tgt Ion:114 Resp: 259252

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.6

88 16.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.765 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

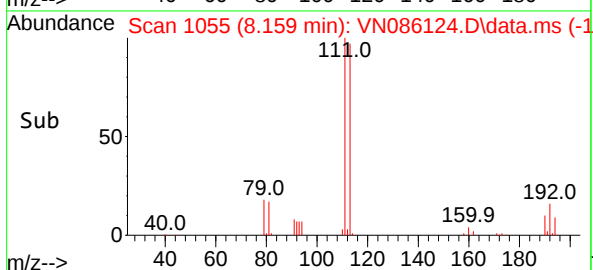
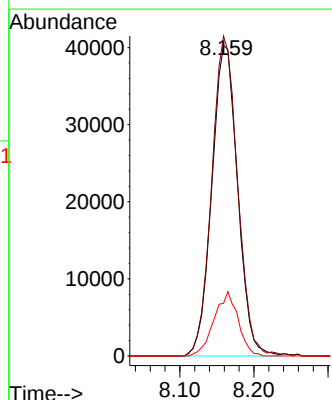
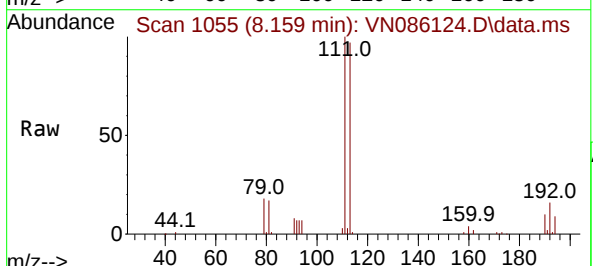
Tgt Ion:113 Resp: 97291

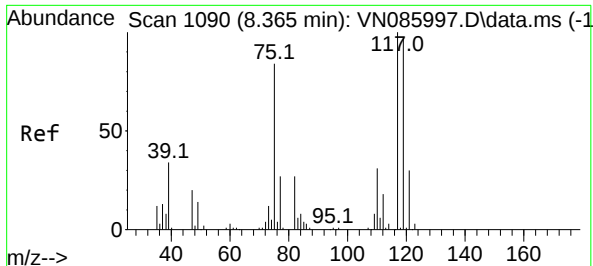
Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

192 19.3 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

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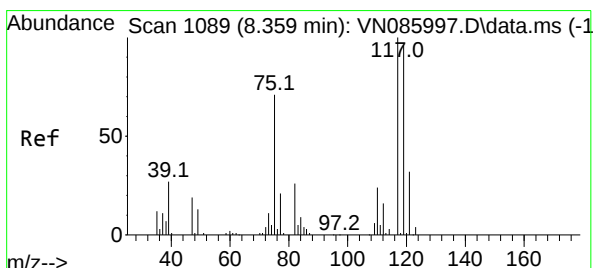
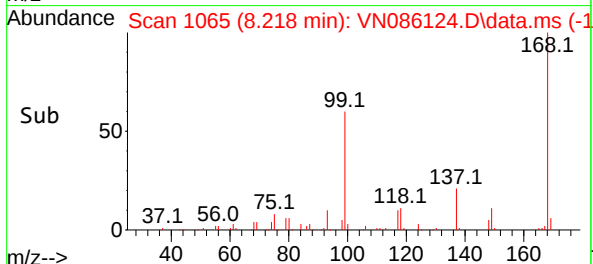
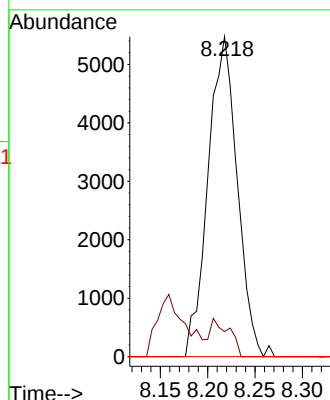
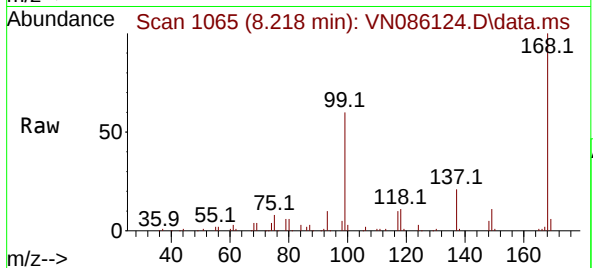
Tgt Ion: 75 Resp: 11778

Ion Ratio Lower Upper

75 100

110 8.1 17.8 53.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.916 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.147 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

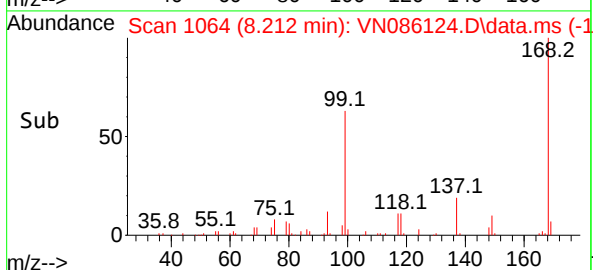
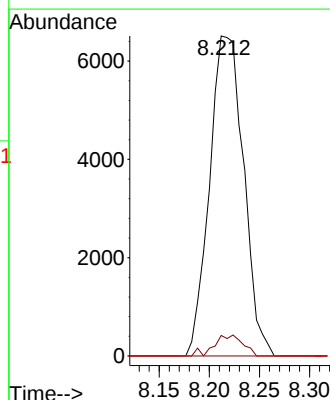
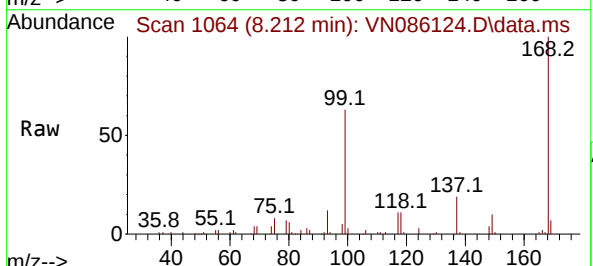
Tgt Ion: 117 Resp: 15402

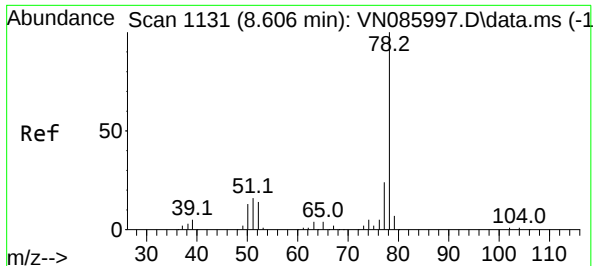
Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

121 0.0 25.6 38.4#

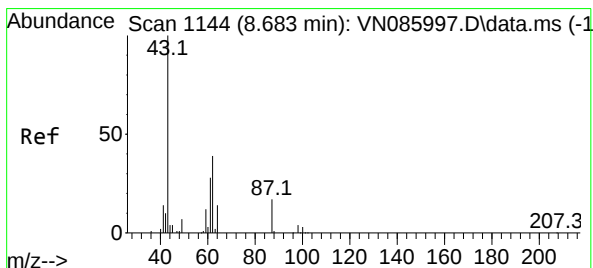
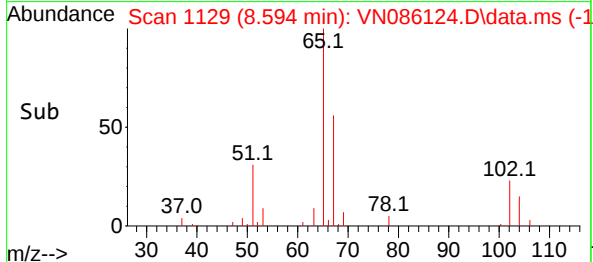
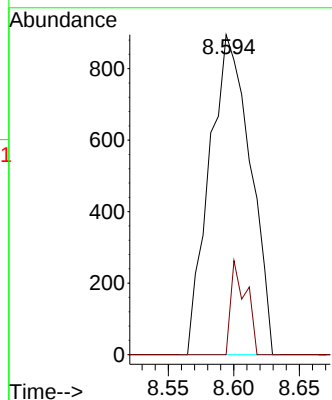
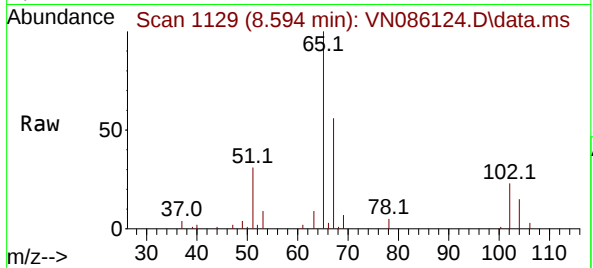




#40
Benzene
Concen: 0.260 ug/l
RT: 8.594 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

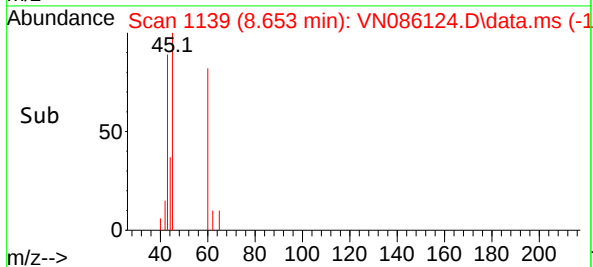
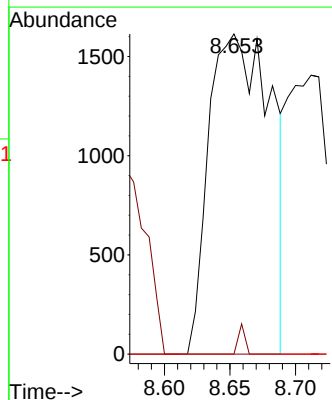
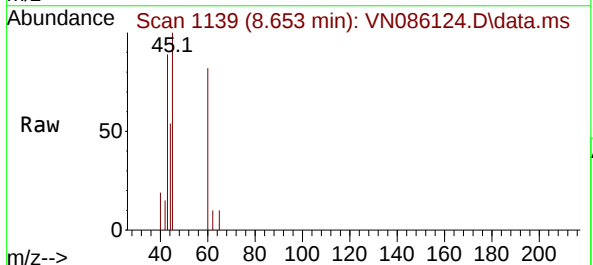
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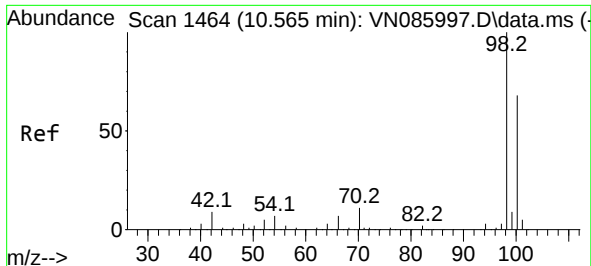
Tgt Ion: 78 Resp: 1946
Ion Ratio Lower Upper
78 100
77 0.0 18.9 28.3#



#43
Isopropyl Acetate
Concen: 1.220 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.030 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 43 Resp: 5314
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#

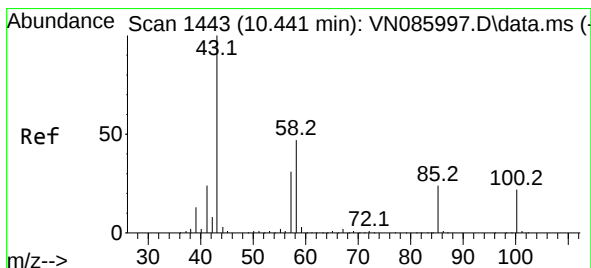
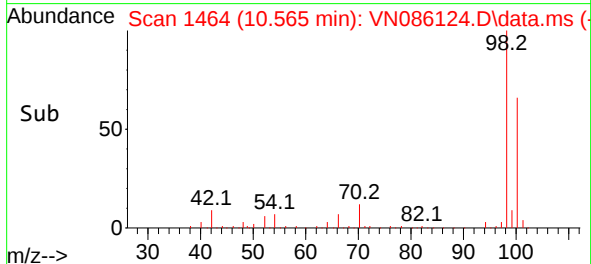
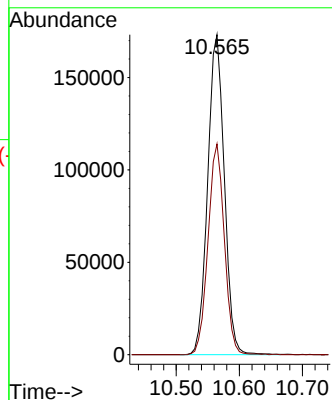
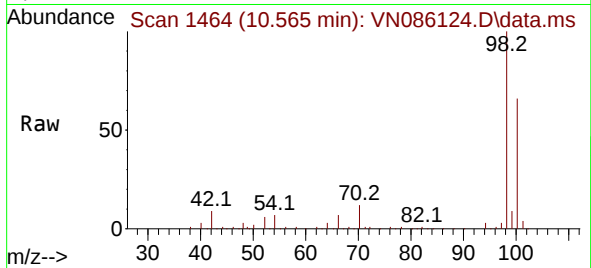




#50
Toluene-d8
Concen: 48.317 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

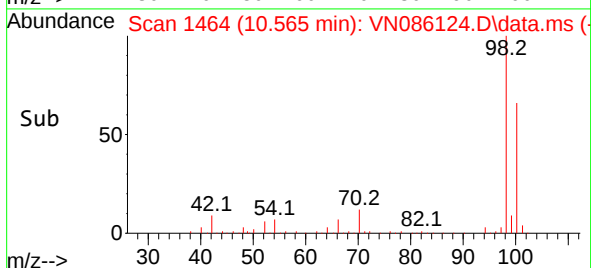
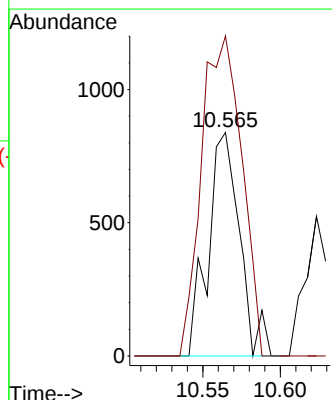
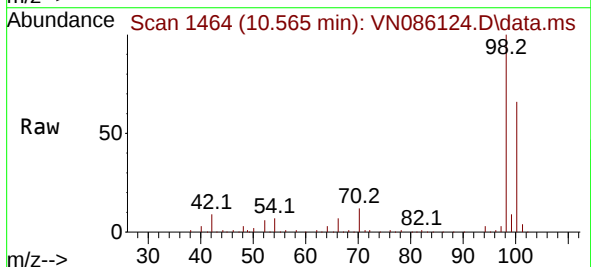
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

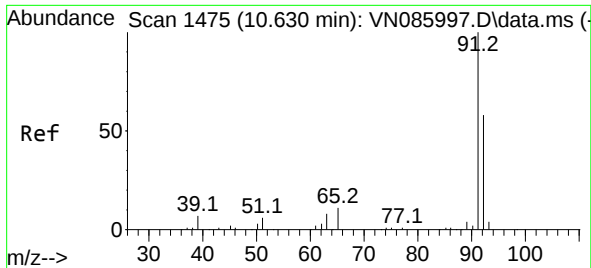
Tgt Ion: 98 Resp: 317317
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.616 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.123 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 43 Resp: 1183
Ion Ratio Lower Upper
43 100
58 183.8 37.4 56.0#

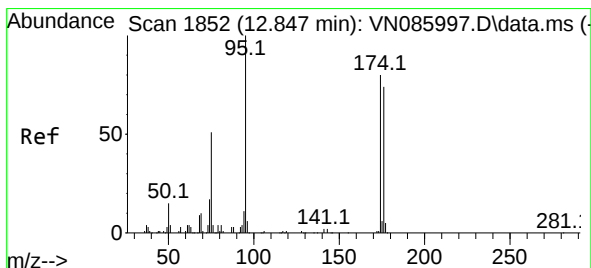
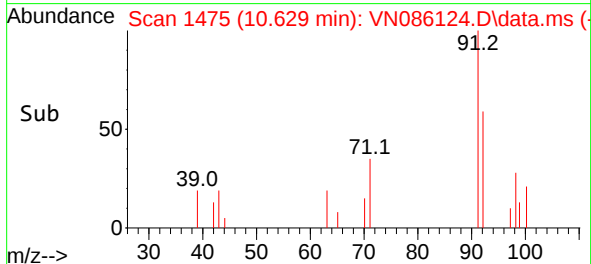
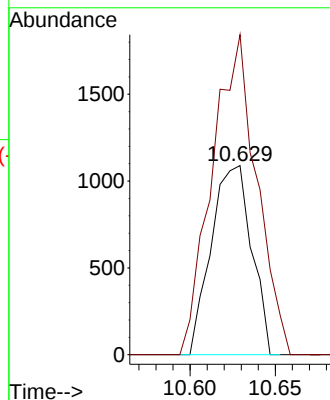
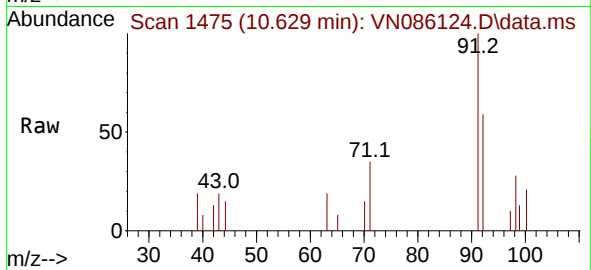




#52
Toluene
Concen: 0.391 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

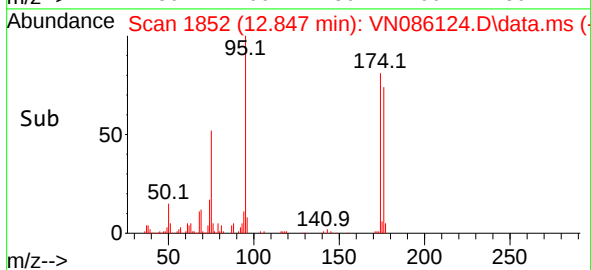
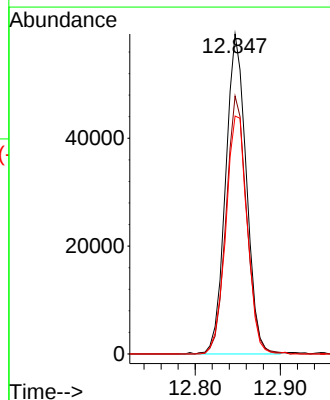
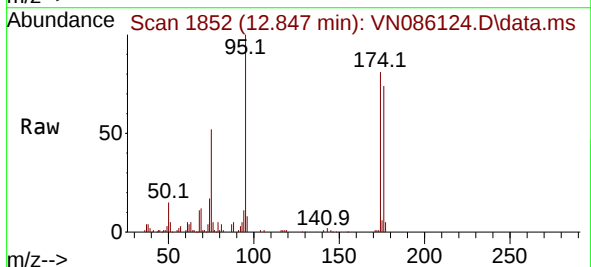
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

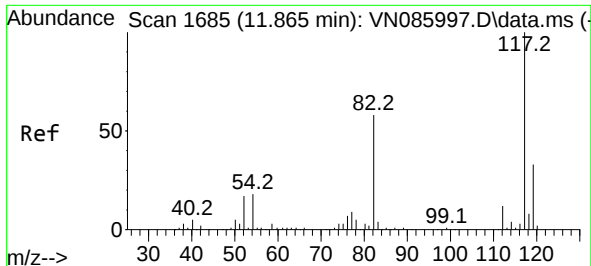
Tgt Ion: 92 Resp: 1796
Ion Ratio Lower Upper
92 100
91 186.7 136.2 204.4



#62
4-Bromofluorobenzene
Concen: 42.825 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 95 Resp: 100302
Ion Ratio Lower Upper
95 100
174 80.3 0.0 156.8
176 76.9 0.0 152.2

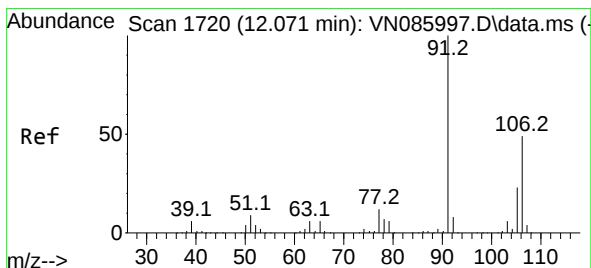
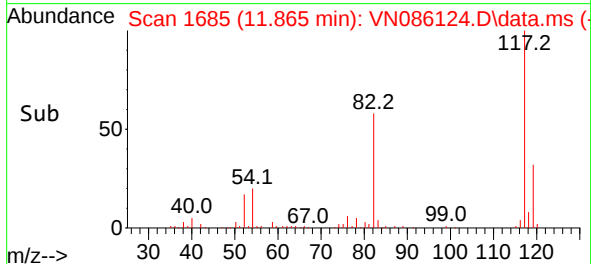
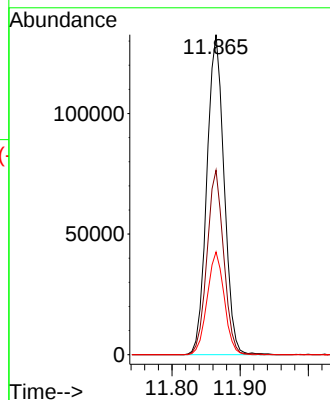
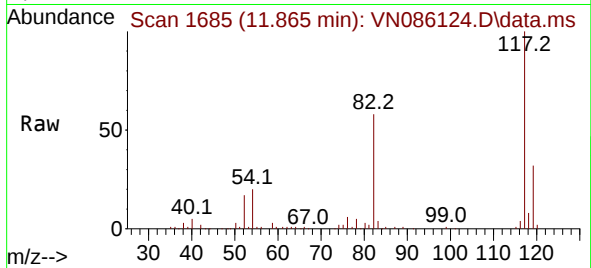




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

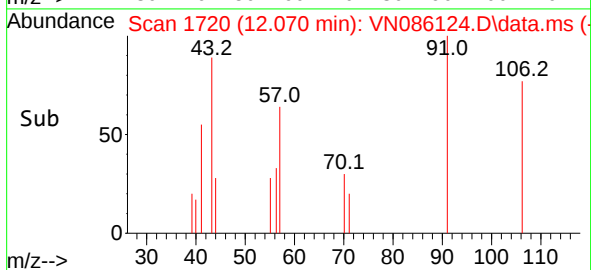
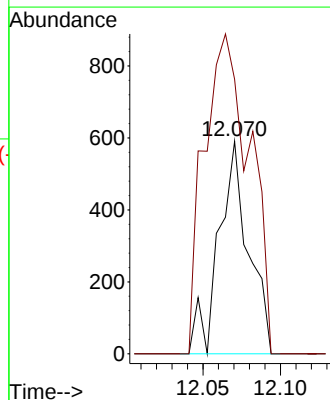
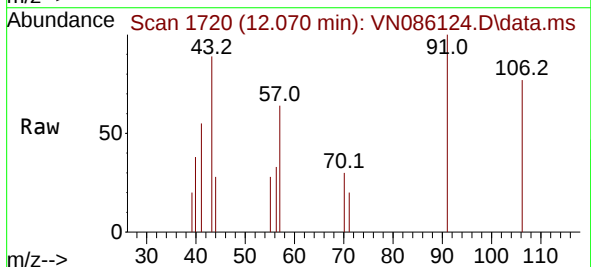
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

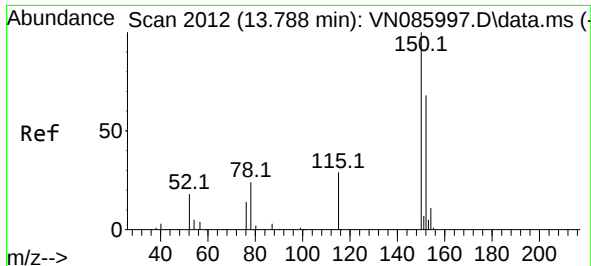
Tgt Ion:117 Resp: 233241
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.1 26.5 39.7



#68
m/p-Xylenes
Concen: 0.234 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion:106 Resp: 786
Ion Ratio Lower Upper
106 100
91 231.6 163.9 245.9

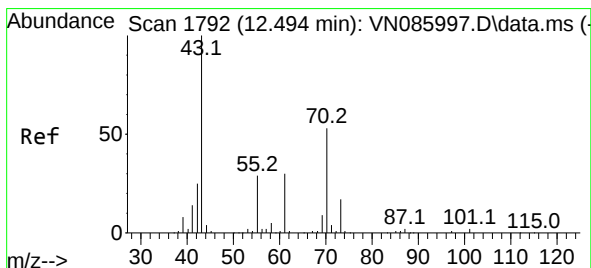
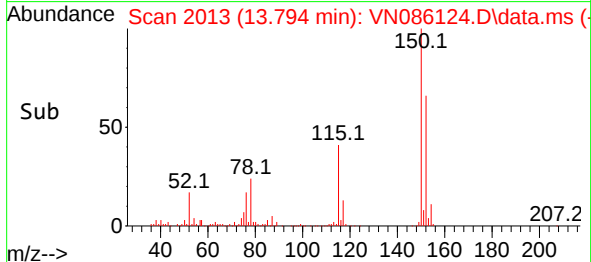
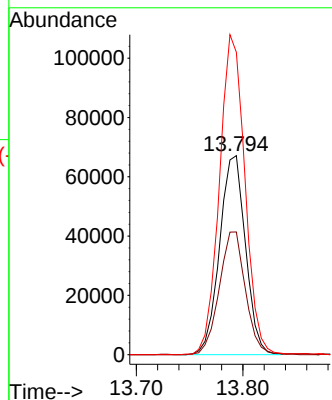
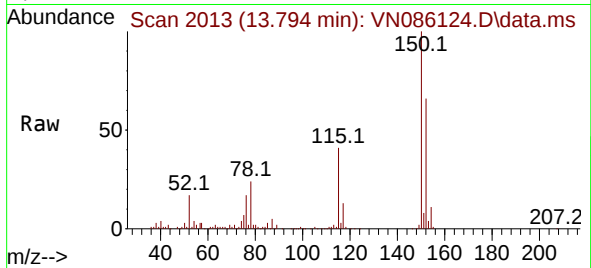




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

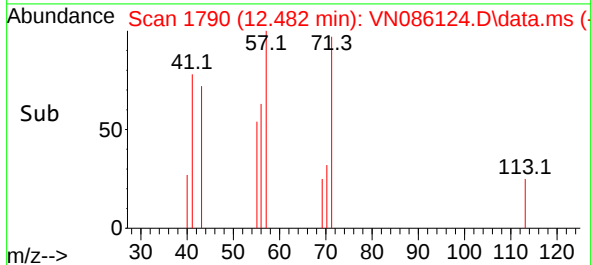
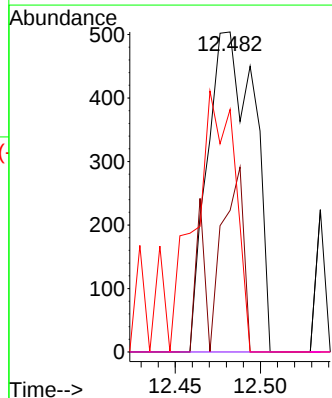
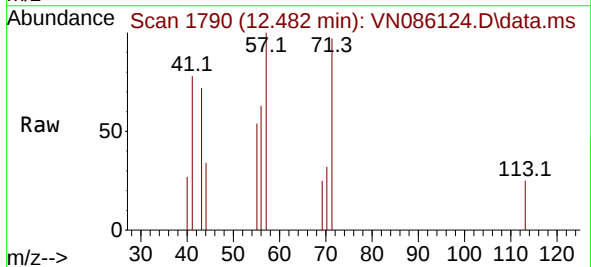
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

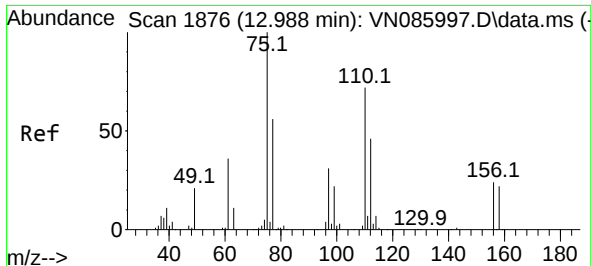
Tgt Ion:152 Resp: 113248
Ion Ratio Lower Upper
152 100
115 62.5 31.1 93.2
150 158.1 0.0 359.6



#74
N-ethyl acetate
Concen: 0.370 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.012 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 43 Resp: 958
Ion Ratio Lower Upper
43 100
70 26.3 43.0 64.4#
55 0.0 23.8 35.8#
61 0.0 23.4 35.0#

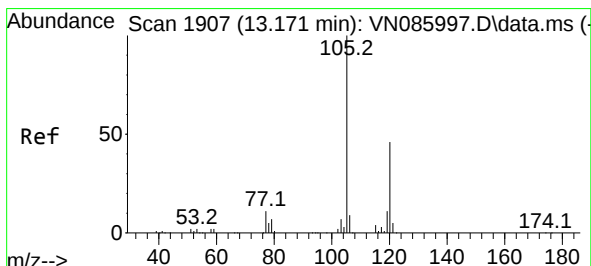
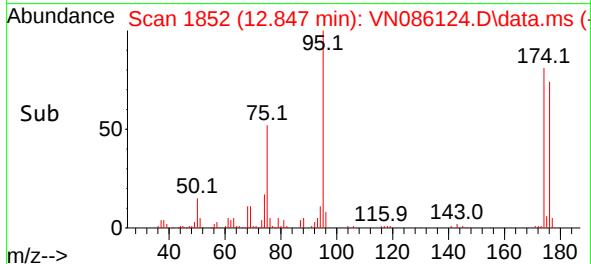
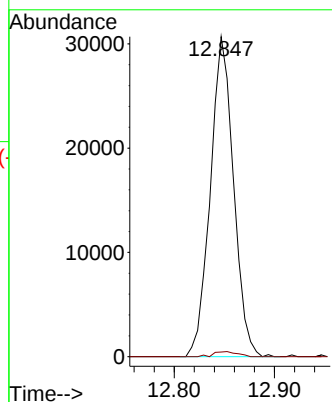
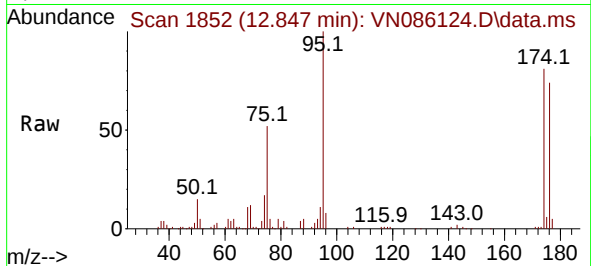




#76
1,2,3-Trichloropropane
Concen: 19.492 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

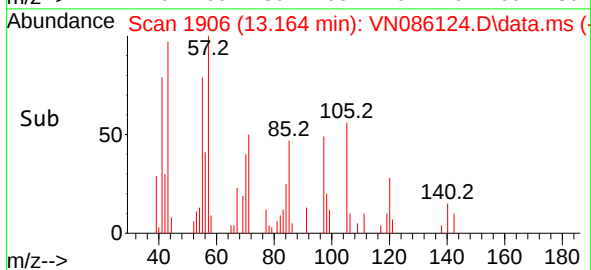
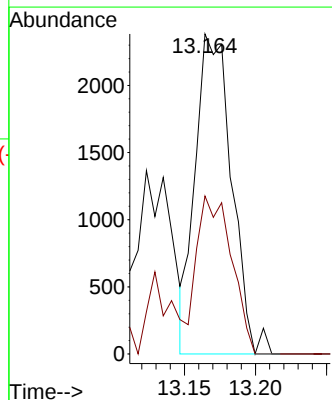
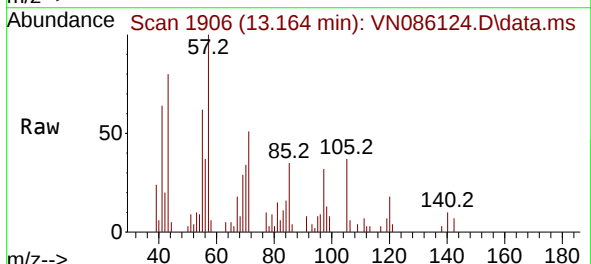
Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

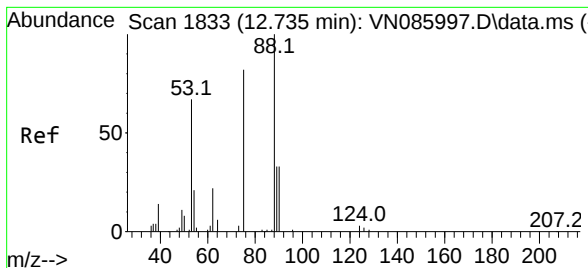
Tgt Ion: 75 Resp: 49420
Ion Ratio Lower Upper
75 100
77 1.6 83.7 251.0#



#80
1,3,5-Trimethylbenzene
Concen: 0.647 ug/l
RT: 13.164 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion: 105 Resp: 4223
Ion Ratio Lower Upper
105 100
120 46.6 23.7 71.1

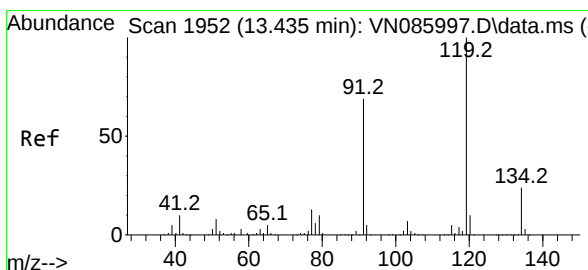
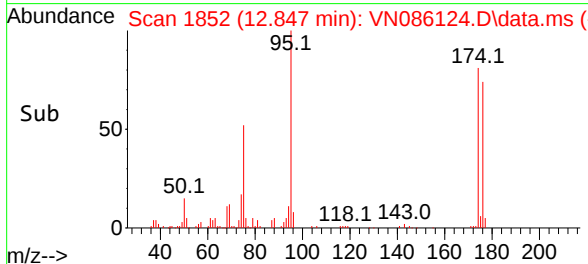
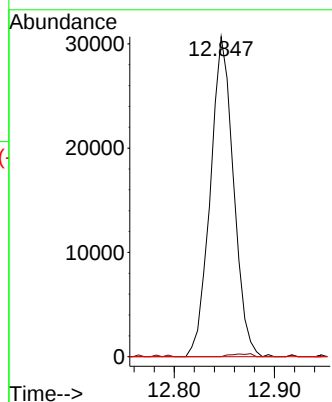
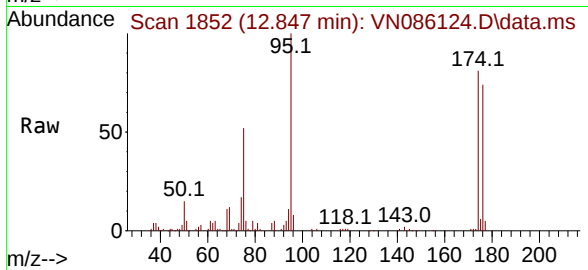




#81
 trans-1,4-Dichloro-2-butene
 Concen: 51.533 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.111 min
 Lab File: VN086124.D
 Acq: 26 Mar 2025 14:23

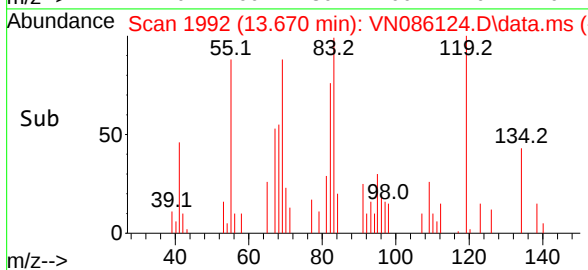
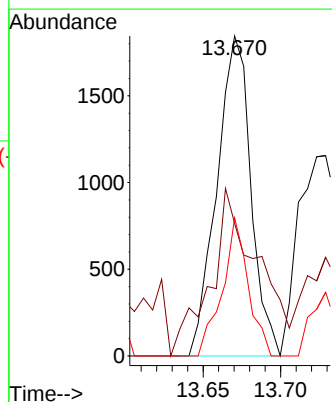
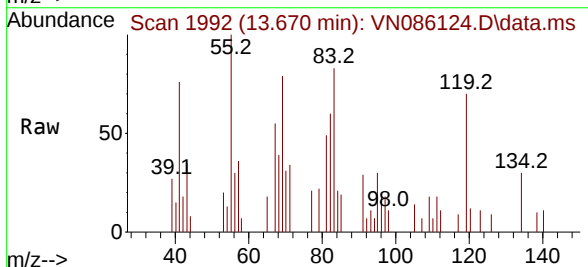
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-032425

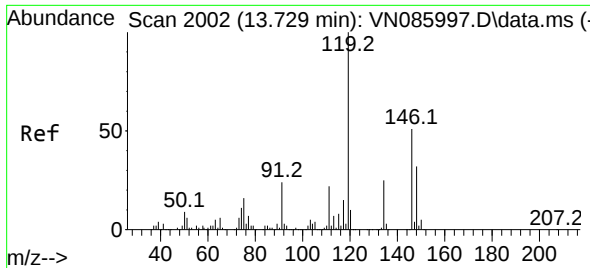
Tgt Ion: 75 Resp: 49420
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.0 99.0#
 89 0.0 36.9 55.3#



#83
 tert-Butylbenzene
 Concen: 0.505 ug/l
 RT: 13.670 min Scan# 1992
 Delta R.T. 0.235 min
 Lab File: VN086124.D
 Acq: 26 Mar 2025 14:23

Tgt Ion: 119 Resp: 2822
 Ion Ratio Lower Upper
 119 100
 91 72.5 34.3 102.9
 134 32.9 13.5 40.5

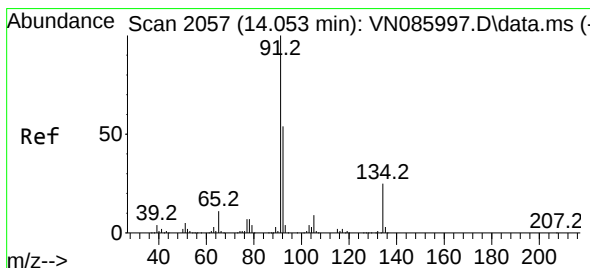
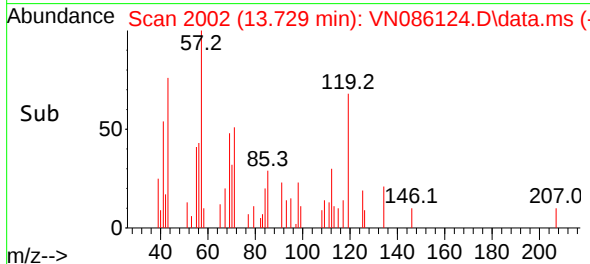
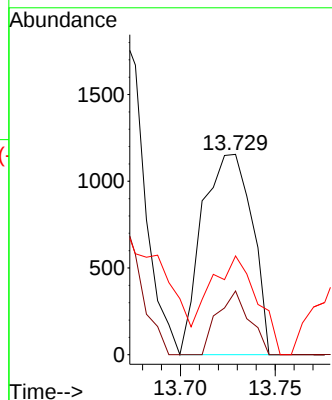
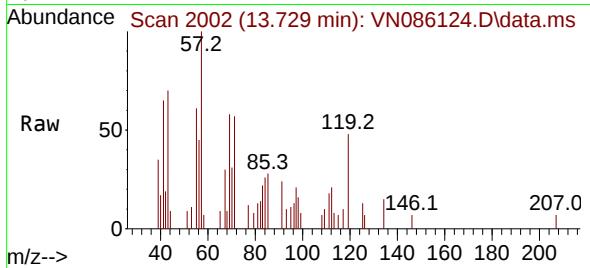




#86
 p-Isopropyltoluene
 Concen: 0.343 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086124.D
 Acq: 26 Mar 2025 14:23

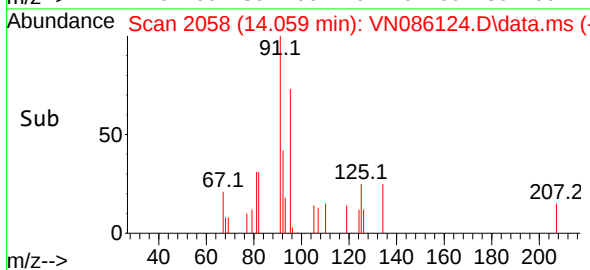
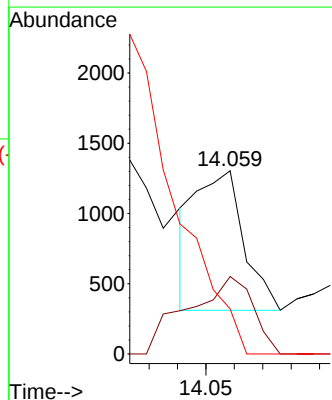
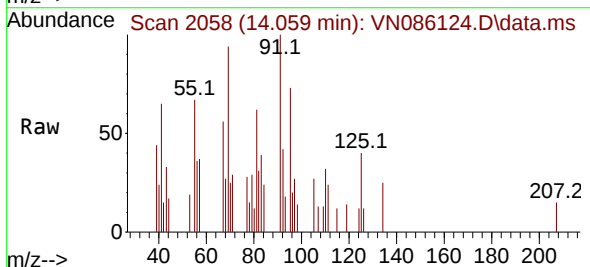
Instrument :
 MSVOA_N
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 HR-01-032425

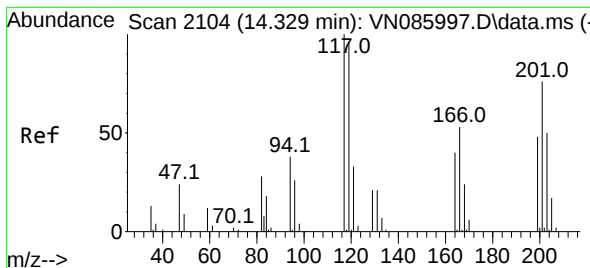
Tgt Ion:119 Resp: 2116
 Ion Ratio Lower Upper
 119 100
 134 20.4 12.6 37.8
 91 46.6 12.3 36.8#



#89
 n-Butylbenzene
 Concen: 0.233 ug/l
 RT: 14.059 min Scan# 2058
 Delta R.T. 0.006 min
 Lab File: VN086124.D
 Acq: 26 Mar 2025 14:23

Tgt Ion: 91 Resp: 1168
 Ion Ratio Lower Upper
 91 100
 92 75.3 26.9 80.6
 134 0.0 13.0 39.0#





#90

Hexachloroethane

Concen: 1.405 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

Instrument :

MSVOA_N

ClientSampleId :

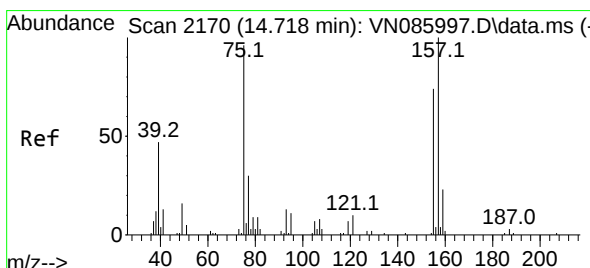
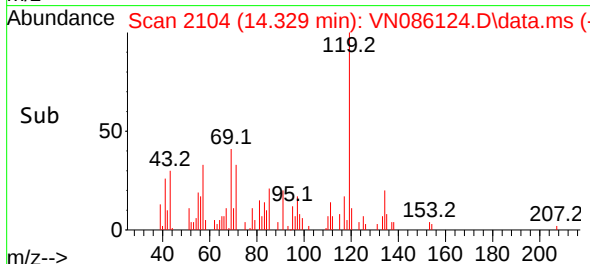
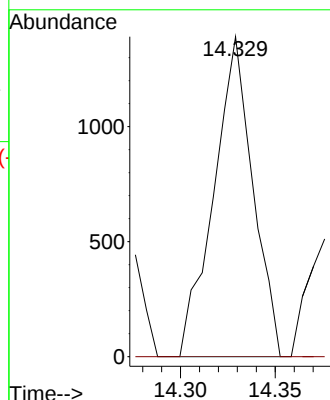
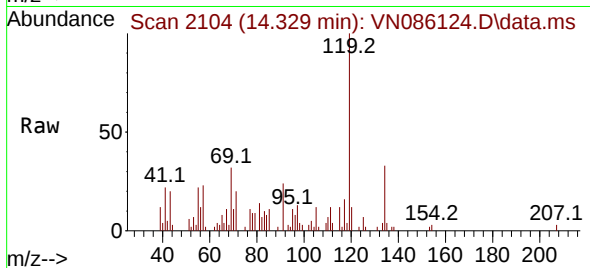
HR-01-032425

Tgt Ion:117 Resp: 1999

Ion Ratio Lower Upper

117 100

201 0.0 39.1 117.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.224 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. -0.018 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

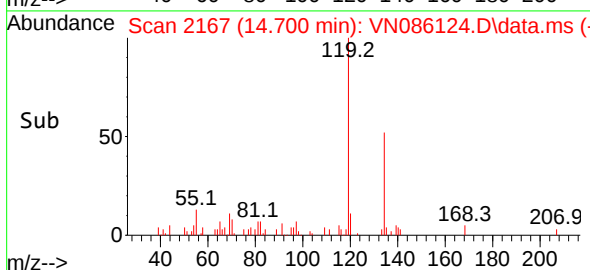
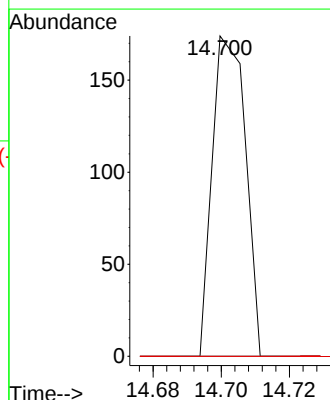
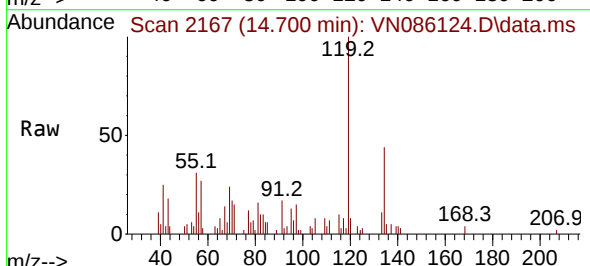
Tgt Ion: 75 Resp: 117

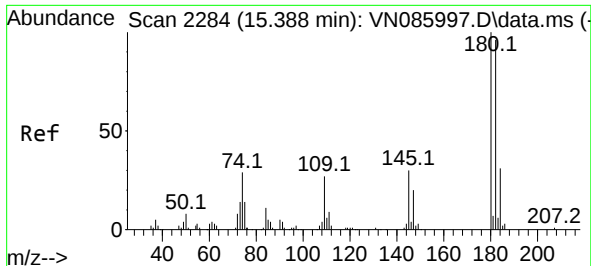
Ion Ratio Lower Upper

75 100

155 0.0 41.0 123.0#

157 0.0 53.7 161.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.425 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

Instrument :

MSVOA_N

ClientSampleId :

HR-01-032425

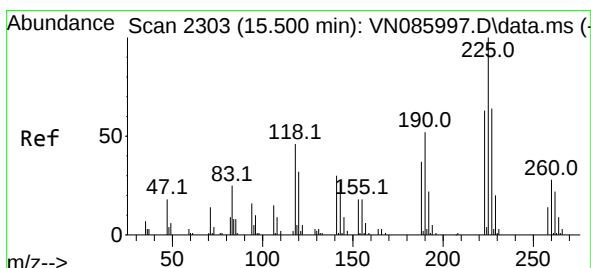
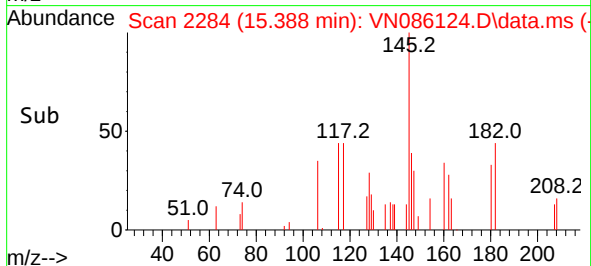
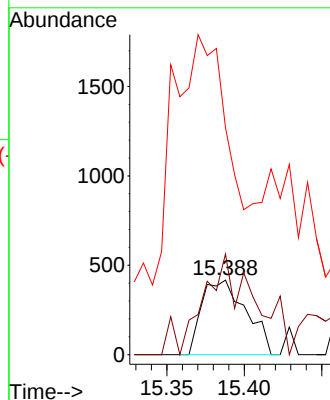
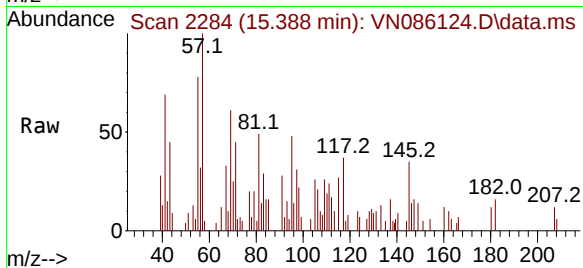
Tgt Ion:180 Resp: 825

Ion Ratio Lower Upper

180 100

182 160.5 47.0 141.0#

145 426.3 15.5 46.5#



#94

Hexachlorobutadiene

Concen: 0.498 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086124.D

Acq: 26 Mar 2025 14:23

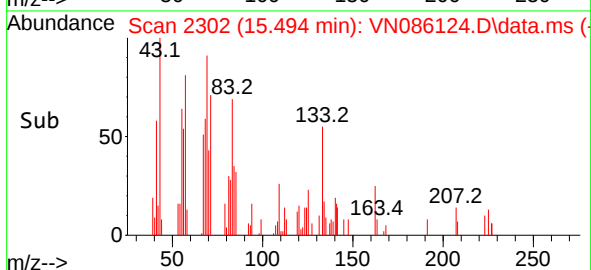
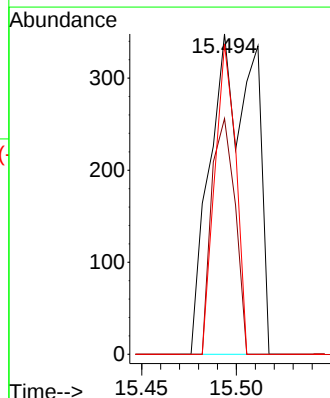
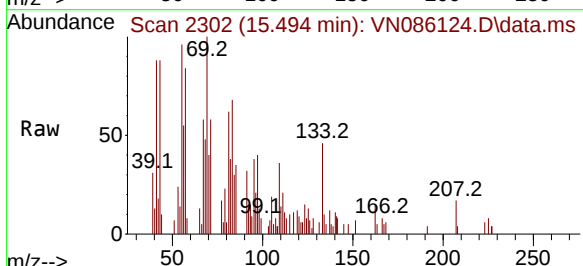
Tgt Ion:225 Resp: 561

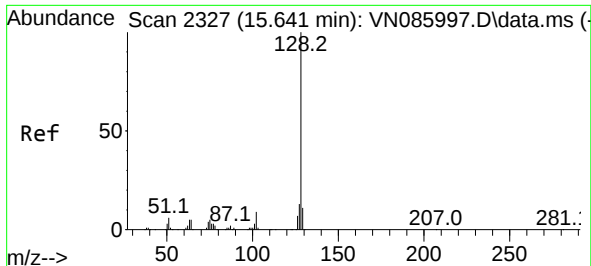
Ion Ratio Lower Upper

225 100

223 39.4 31.3 93.9

227 46.5 32.1 96.3

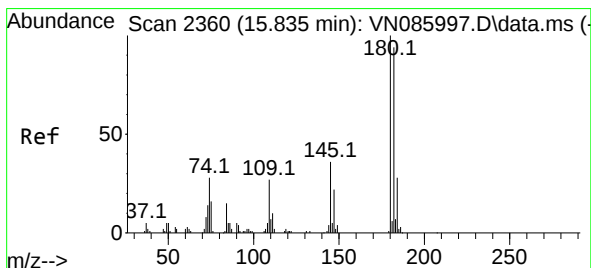
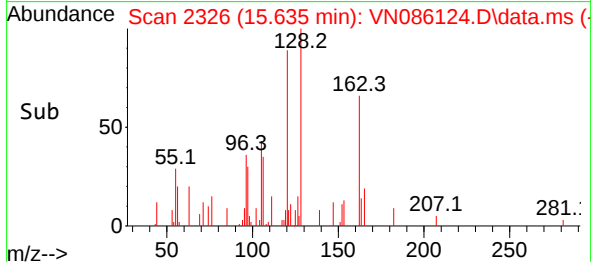
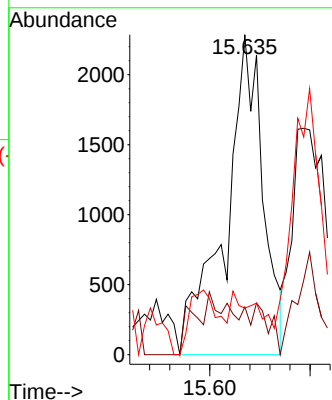
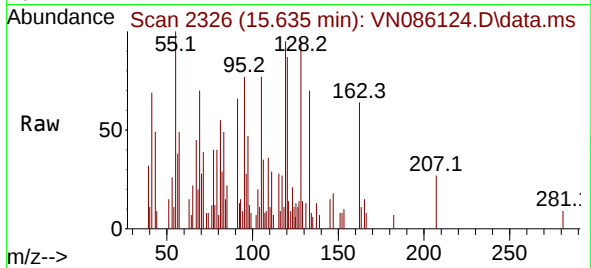




#95
Naphthalene
Concen: 1.060 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Instrument :
MSVOA_N
ClientSampleId :
HR-01-032425

Tgt Ion:128 Resp: 5961
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 15.3 9.0 13.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086124.D
Acq: 26 Mar 2025 14:23

Tgt Ion:180 Resp: 407
Ion Ratio Lower Upper
180 100
182 385.5 47.5 142.5#
145 1492.1 17.7 53.1#

