

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087212.D
 Acq On : 27 Jun 2025 11:48
 Operator : JC\MD
 Sample : Q2399-08RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP-7

Quant Time: Jun 27 23:42:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

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

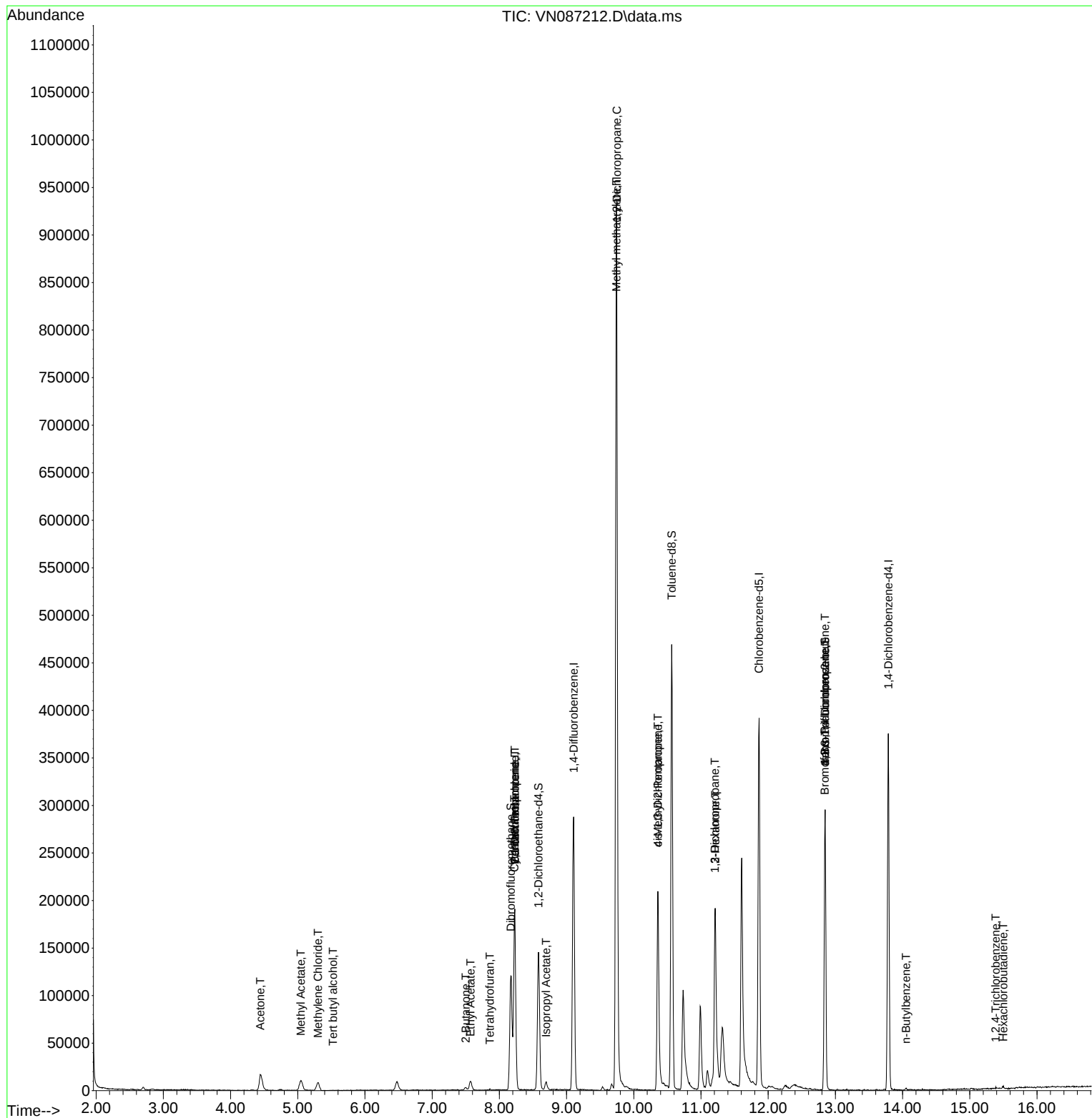
Internal Standards						
1) Pentafluorobenzene	8.230	168	140423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	257552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	237725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	105236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	120094	59.428	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.860%			
35) Dibromofluoromethane	8.171	113	93547	56.181	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.360%			
50) Toluene-d8	10.565	98	336954	48.928	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.860%			
62) 4-Bromofluorobenzene	12.847	95	114673	47.988	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.980%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	211	0.474	ug/l #	73
14) Allyl chloride	5.036	41	69	Below Cal	#	23
15) Acrylonitrile	5.747	53	53	Below Cal	#	18
16) Acetone	4.442	43	35672	24.525	ug/l	98
17) Carbon Disulfide	4.742	76	1325	Below Cal	#	76
18) Methyl Acetate	5.048	43	24236	9.124	ug/l	100
20) Methylene Chloride	5.300	84	6664	1.922	ug/l #	94
25) 2-Butanone	7.500	43	5049	3.295	ug/l	99
29) Tetrahydrofuran	7.859	42	807	0.803	ug/l #	43
31) Cyclohexane	8.224	56	3023	0.966	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	11729	4.809	ug/l #	49
37) Ethyl Acetate	7.571	43	15464	2.753	ug/l	96
38) Carbon Tetrachloride	8.230	117	14612	6.152	ug/l #	14
43) Isopropyl Acetate	8.694	43	10260	2.288	ug/l #	90
45) 1,2-Dichloropropane	9.747	63	1150	0.592	ug/l #	44
48) Methyl methacrylate	9.741	41	81034	37.380	ug/l #	38
51) 4-Methyl-2-Pentanone	10.359	43	85854	24.024	ug/l #	46
54) cis-1,3-Dichloropropene	10.359	75	48138	15.348	ug/l #	59
56) Ethyl methacrylate	10.988	69	586	Below Cal	#	1
57) 1,3-Dichloropropane	11.206	76	2874	0.893	ug/l #	43
59) 2-Hexanone	11.212	43	32755	16.420	ug/l #	51
71) Bromoform	12.841	173	372	0.298	ug/l #	29
76) 1,2,3-Trichloropropane	12.847	75	55829	23.778	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	55829	53.367	ug/l #	13
89) n-Butylbenzene	14.053	91	1369	0.241	ug/l	89
93) 1,2,4-Trichlorobenzene	15.388	180	535	0.293	ug/l #	73
94) Hexachlorobutadiene	15.500	225	581	1.008	ug/l	85

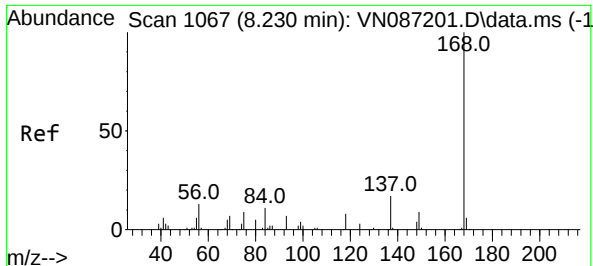
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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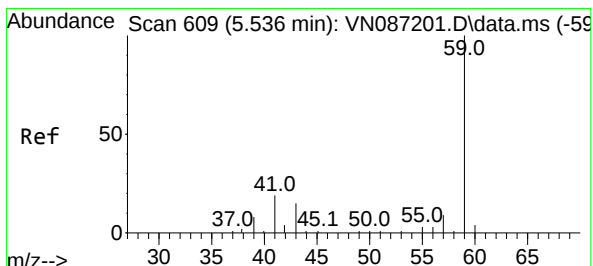
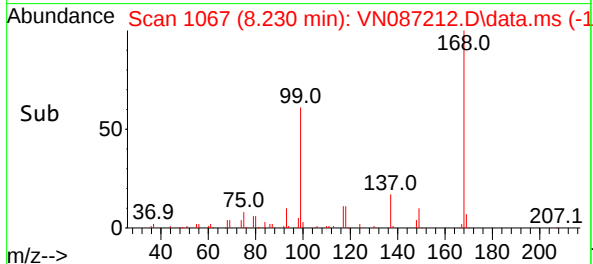
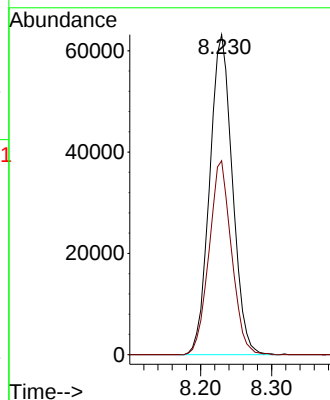
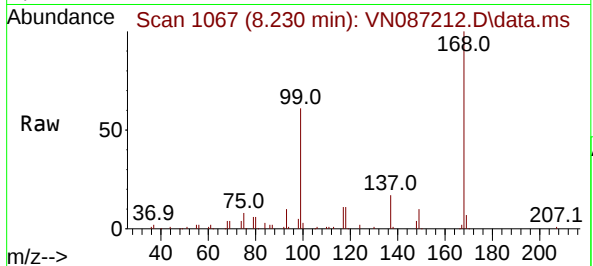




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

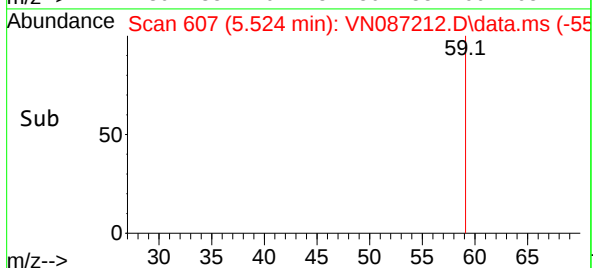
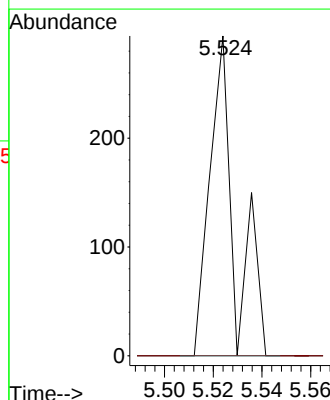
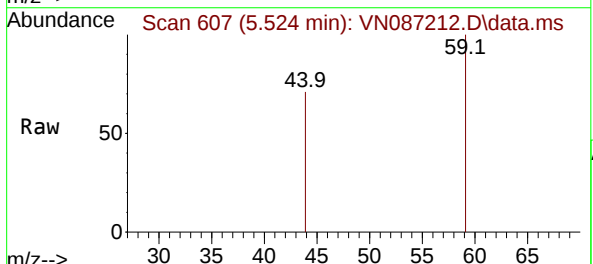
Instrument :
MSVOA_N
ClientSampleId :
EP-7

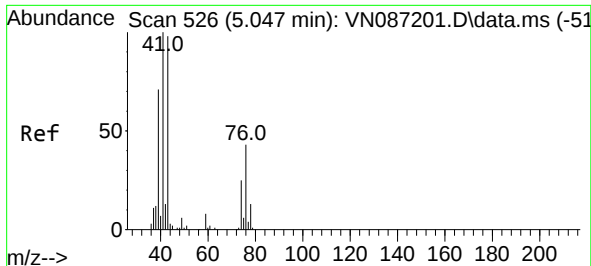
Tgt Ion:168 Resp: 140423
Ion Ratio Lower Upper
168 100
99 60.6 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.474 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 59 Resp: 211
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

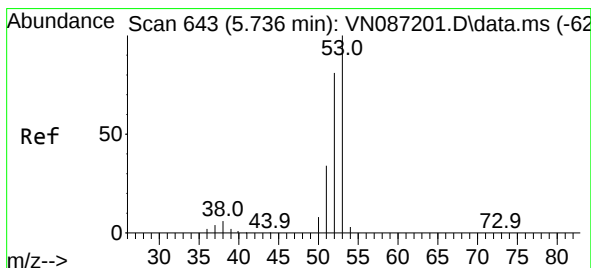
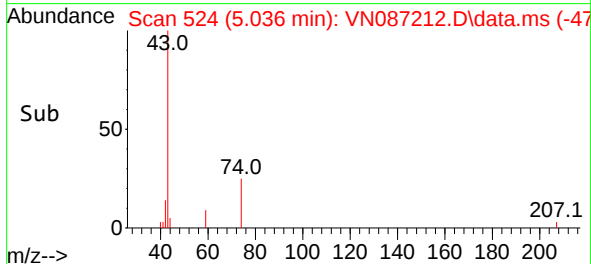
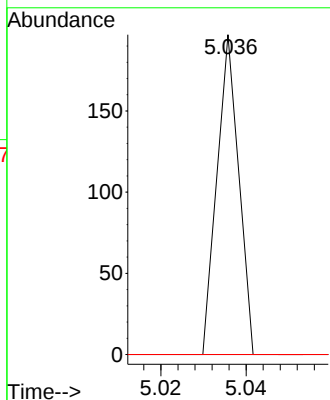
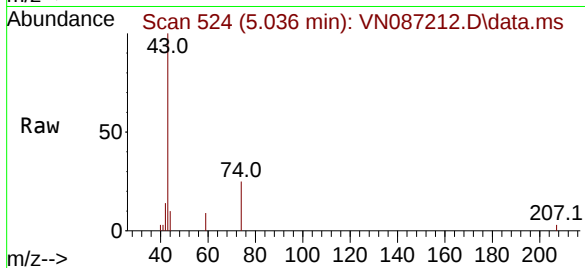




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.036 min Scan# 51
 Delta R.T. -0.011 min
 Lab File: VN087212.D
 Acq: 27 Jun 2025 11:48

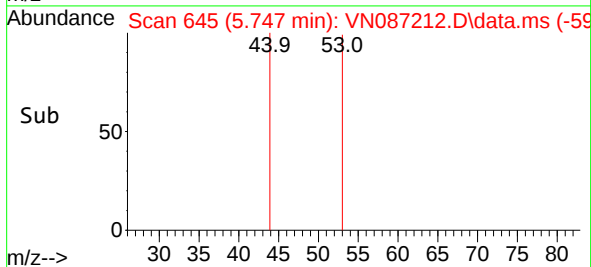
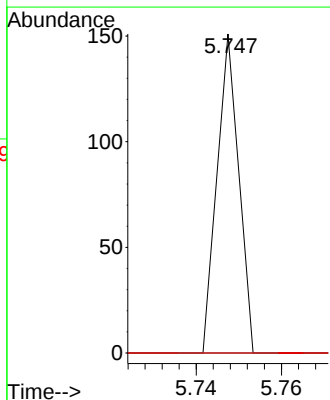
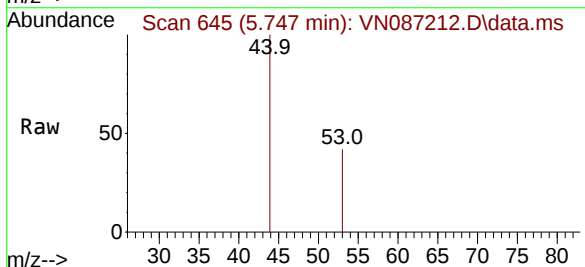
Instrument :
 MSVOA_N
 ClientSampleId :
 EP-7

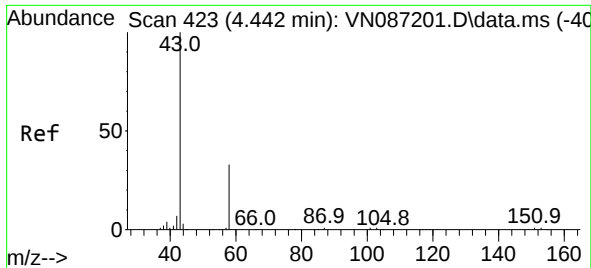
Tgt Ion:	41	Resp:	69
Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.0	82.6#
76	0.0	31.3	46.9#



#15
 Acrylonitrile
 Concen: Below Cal
 RT: 5.747 min Scan# 645
 Delta R.T. 0.011 min
 Lab File: VN087212.D
 Acq: 27 Jun 2025 11:48

Tgt Ion:	53	Resp:	53
Ion	Ratio	Lower	Upper
53	100		
52	0.0	65.0	97.6#
51	0.0	27.8	41.6#

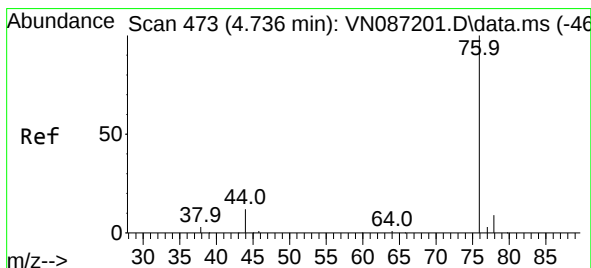
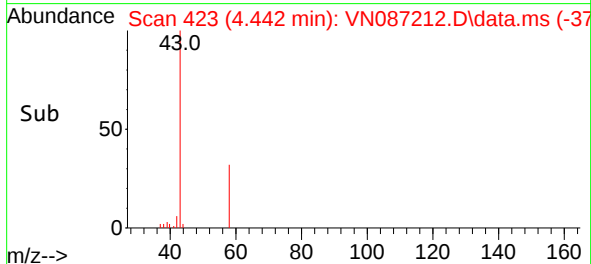
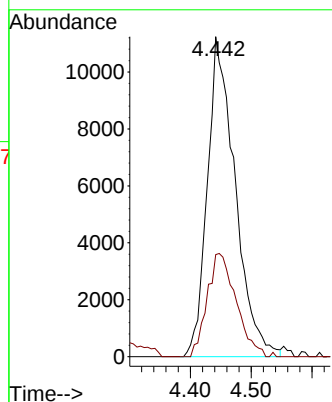
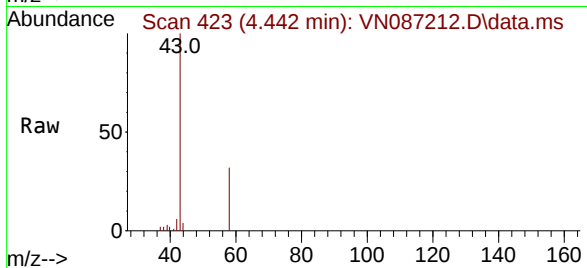




#16
Acetone
Concen: 24.525 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

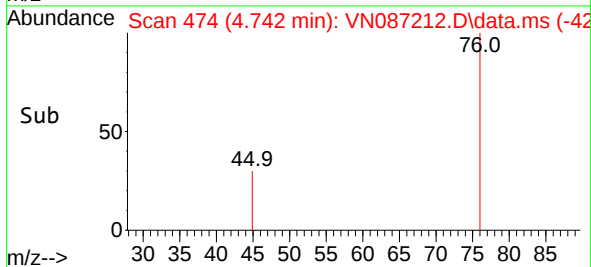
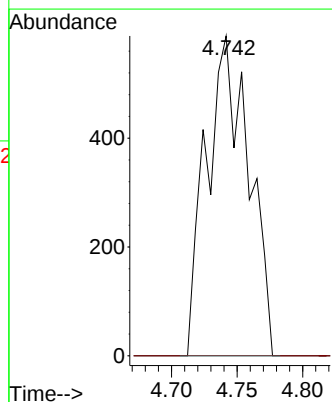
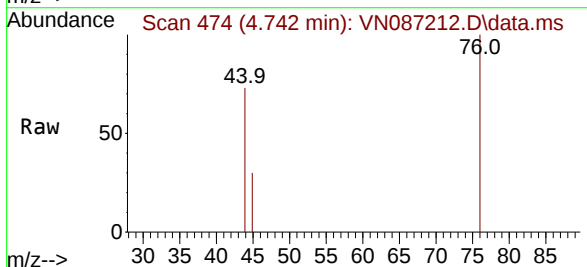
Instrument :
MSVOA_N
ClientSampleId :
EP-7

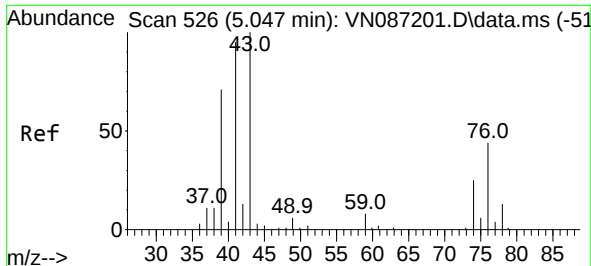
Tgt Ion: 43 Resp: 35672
Ion Ratio Lower Upper
43 100
58 31.9 26.5 39.7



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.742 min Scan# 474
Delta R.T. 0.006 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 76 Resp: 1325
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

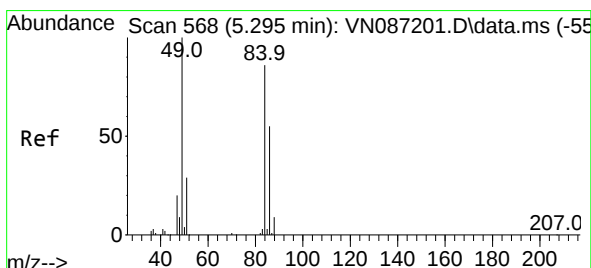
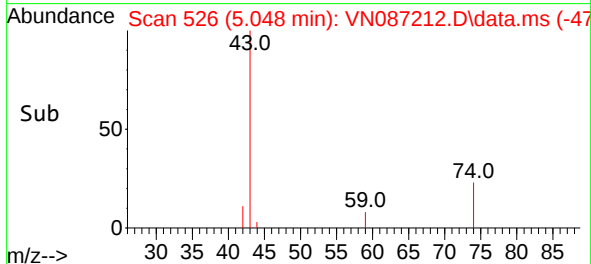
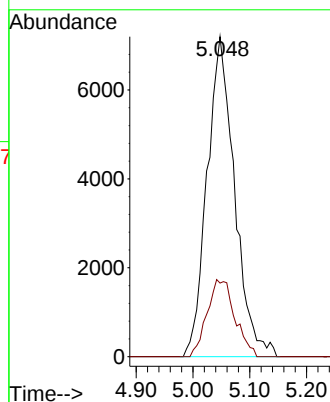
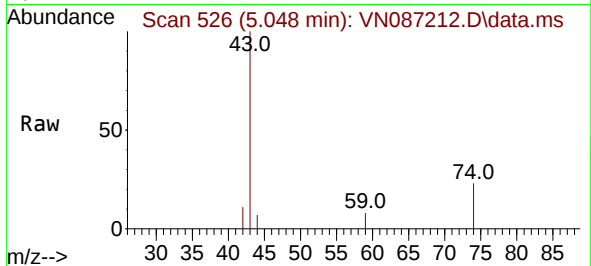




#18
Methyl Acetate
Concen: 9.124 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.001 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

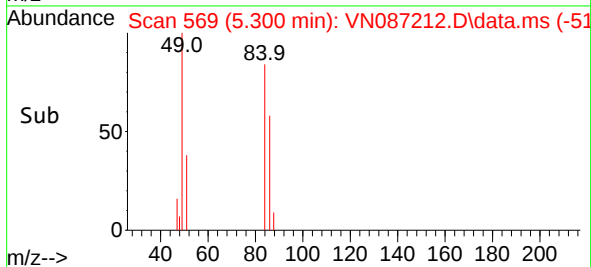
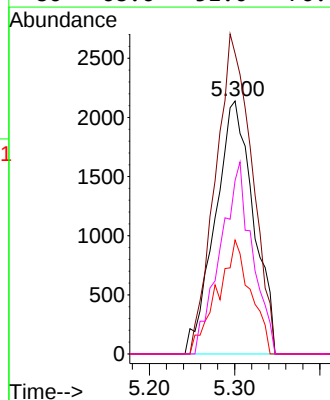
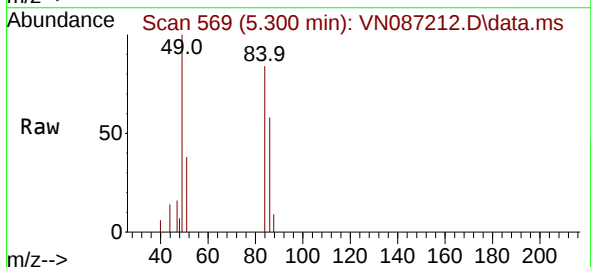
Instrument :
MSVOA_N
ClientSampleId :
EP-7

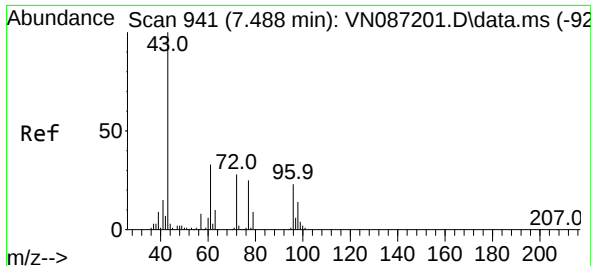
Tgt Ion: 43 Resp: 24236
Ion Ratio Lower Upper
43 100
74 24.2 19.4 29.2



#20
Methylene Chloride
Concen: 1.922 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.005 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 84 Resp: 6664
Ion Ratio Lower Upper
84 100
49 118.8 93.0 139.6
51 45.1 27.2 40.8#
86 68.6 51.0 76.4

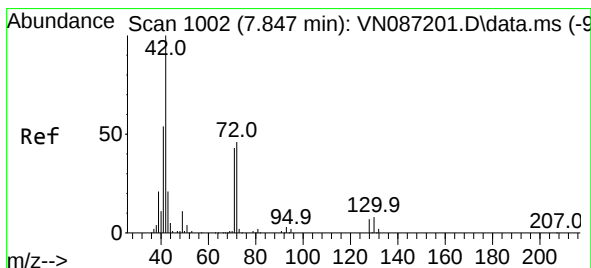
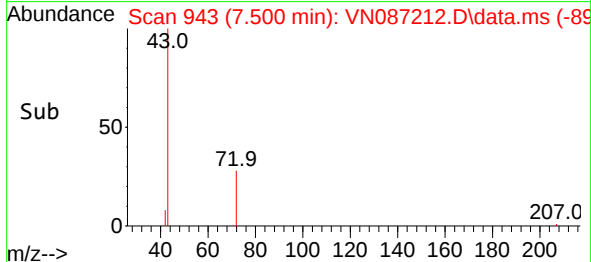
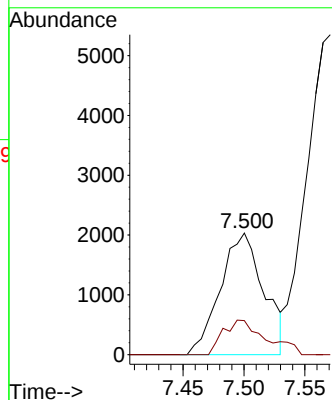
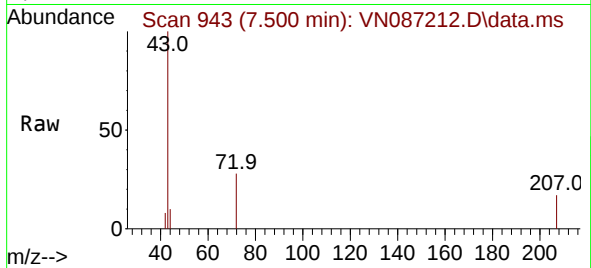




#25
2-Butanone
Concen: 3.295 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

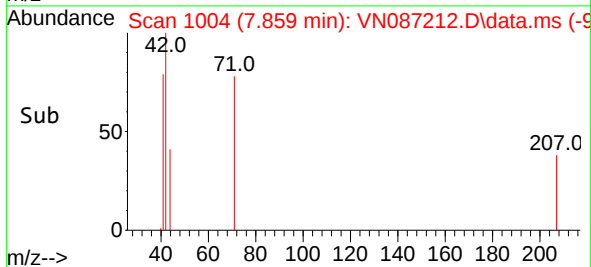
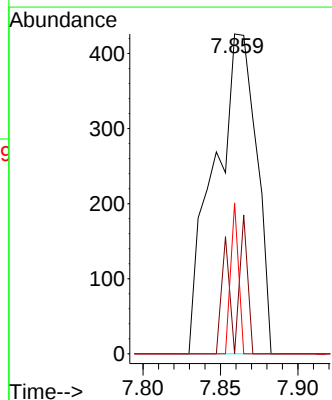
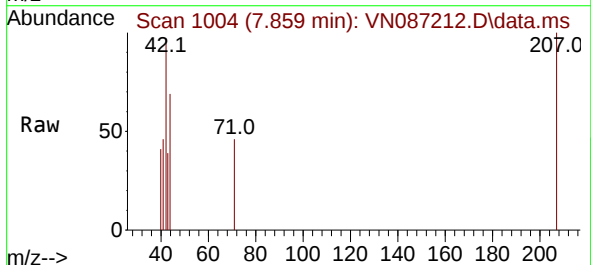
Instrument :
MSVOA_N
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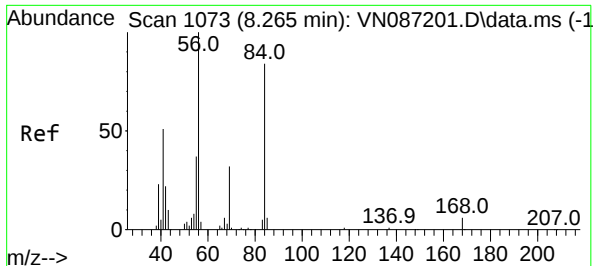
Tgt Ion: 43 Resp: 5049
Ion Ratio Lower Upper
43 100
72 28.0 22.2 33.2



#29
Tetrahydrofuran
Concen: 0.803 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 42 Resp: 807
Ion Ratio Lower Upper
42 100
72 6.8 36.9 55.3#
71 8.8 35.0 52.4#

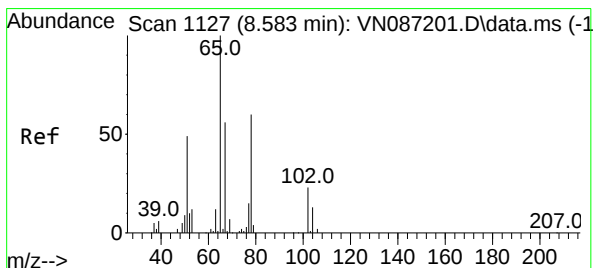
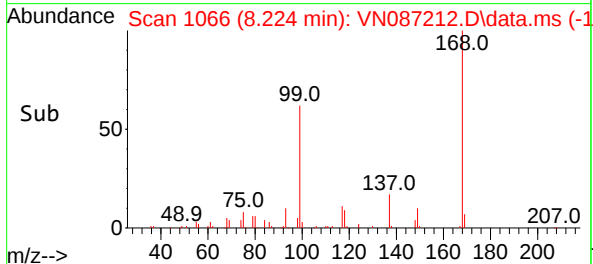
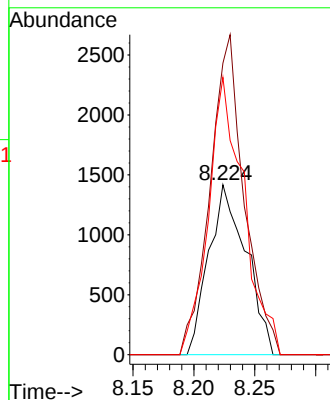
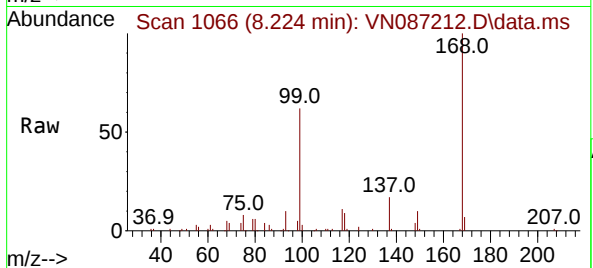




#31
Cyclohexane
Concen: 0.966 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

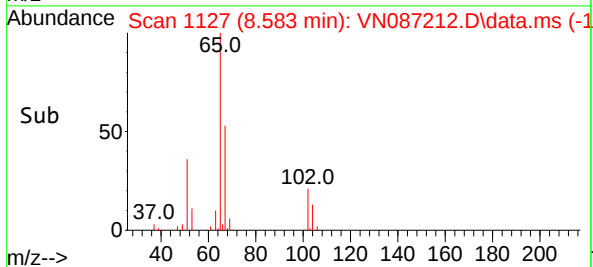
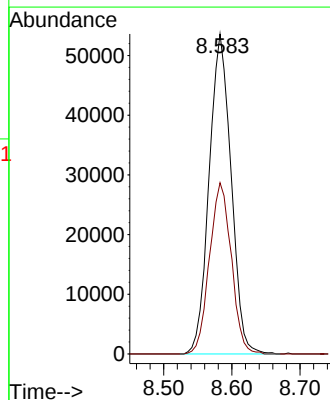
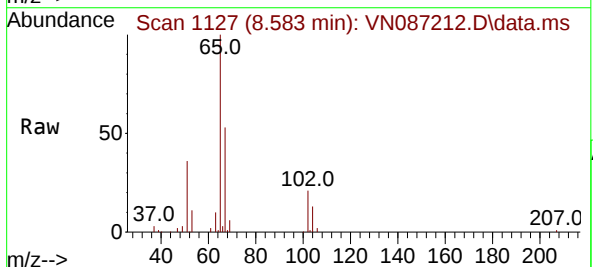
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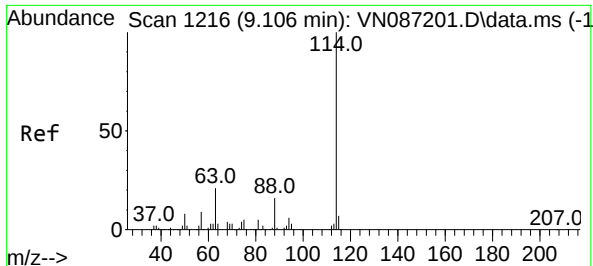
Tgt Ion: 56 Resp: 3023
Ion Ratio Lower Upper
56 100
69 171.6 25.3 37.9#
84 163.2 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 59.428 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 65 Resp: 120094
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

Instrument :

MSVOA_N

ClientSampleId :

EP-7

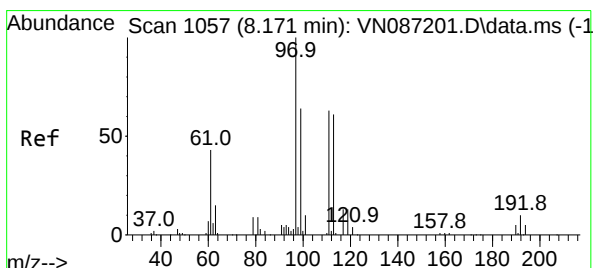
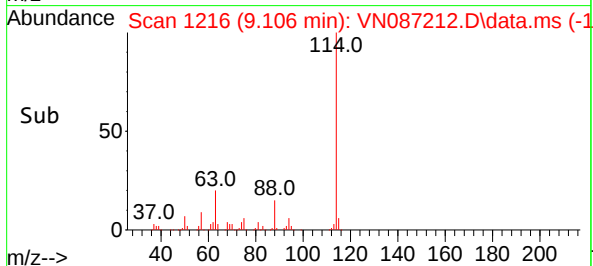
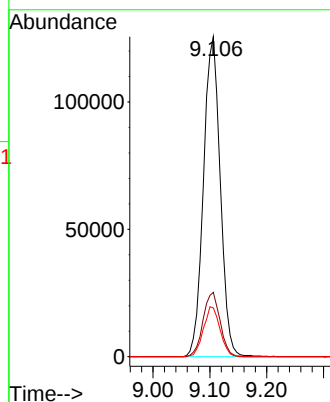
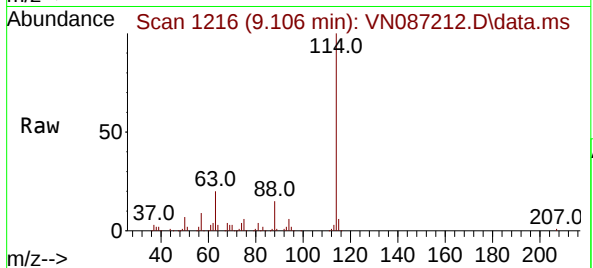
Tgt Ion:114 Resp: 257552

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.0

88 15.3 0.0 32.0



#35

Dibromofluoromethane

Concen: 56.181 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

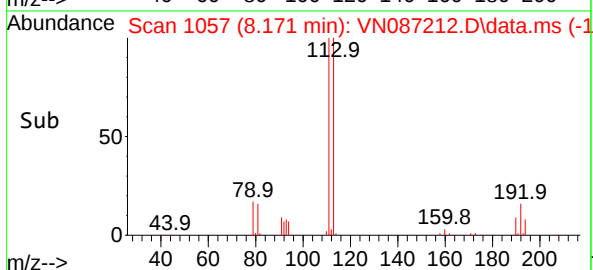
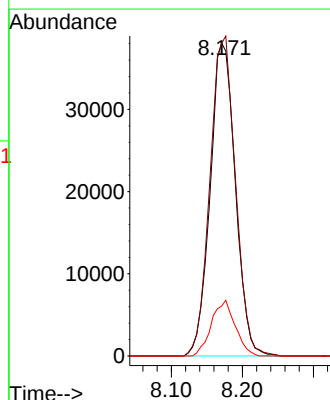
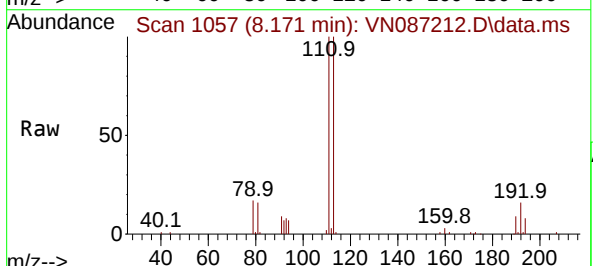
Tgt Ion:113 Resp: 93547

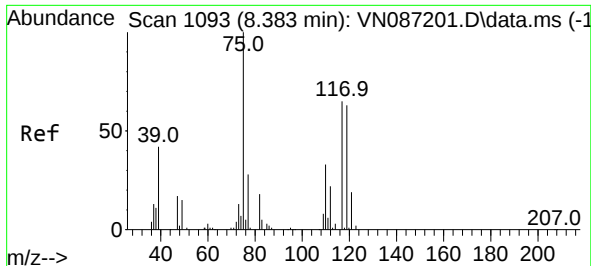
Ion Ratio Lower Upper

113 100

111 103.5 82.6 124.0

192 16.8 13.5 20.3

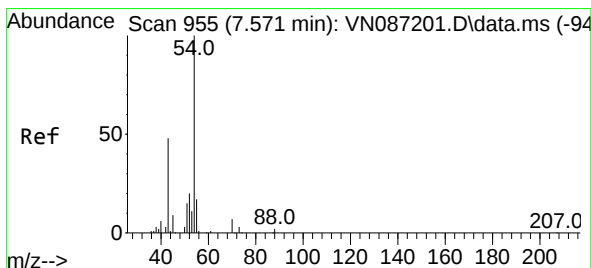
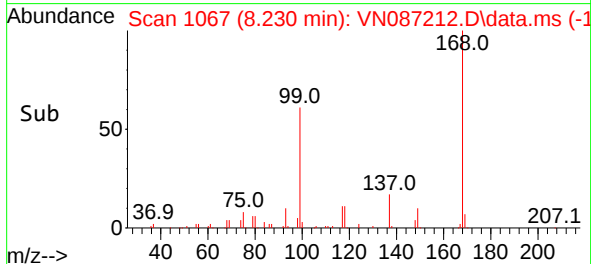
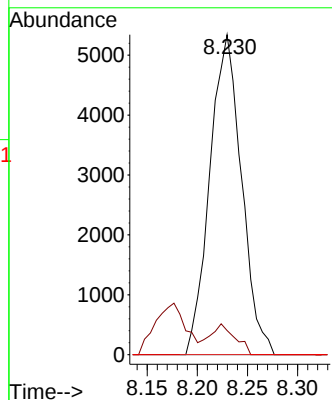
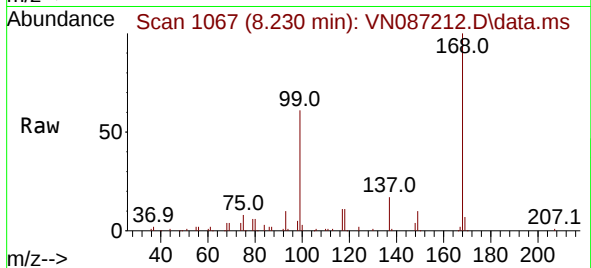




#36
1,1-Dichloropropene
Concen: 4.809 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.153 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

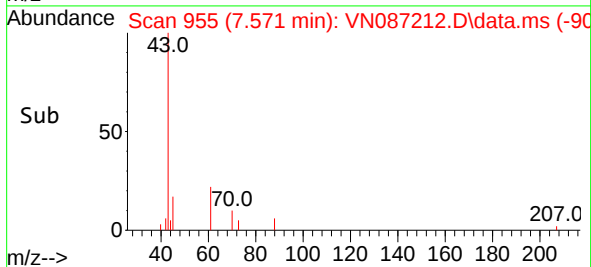
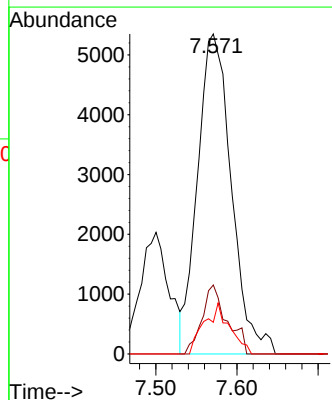
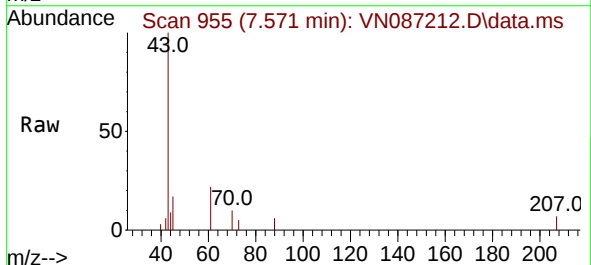
Instrument :
MSVOA_N
ClientSampleId :
EP-7

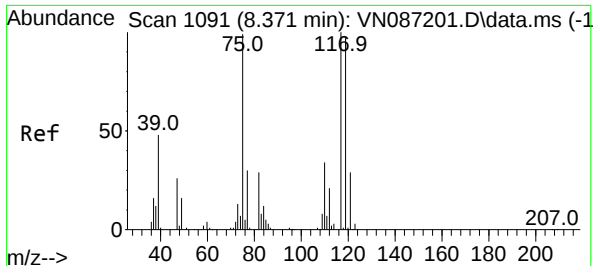
Tgt Ion: 75 Resp: 11729
Ion Ratio Lower Upper
75 100
110 7.1 16.9 50.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 2.753 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 43 Resp: 15464
Ion Ratio Lower Upper
43 100
61 15.9 10.8 16.2
70 11.9 8.9 13.3

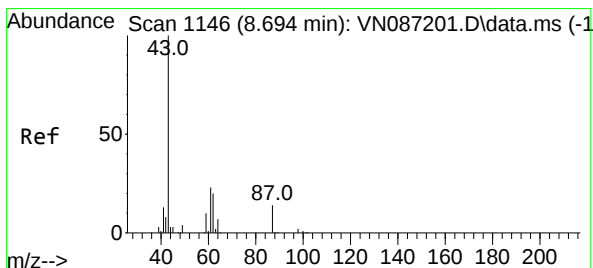
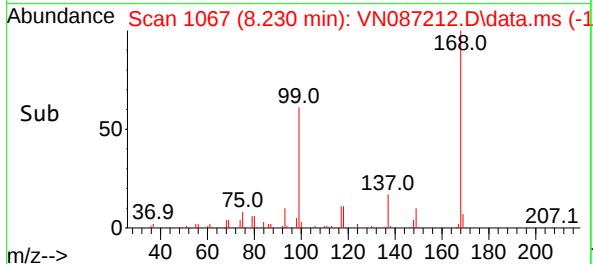
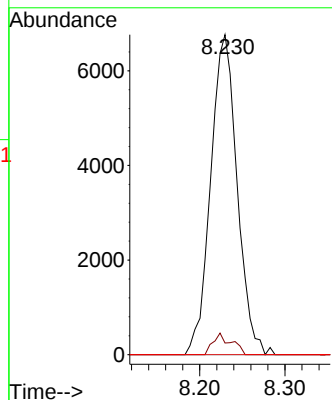
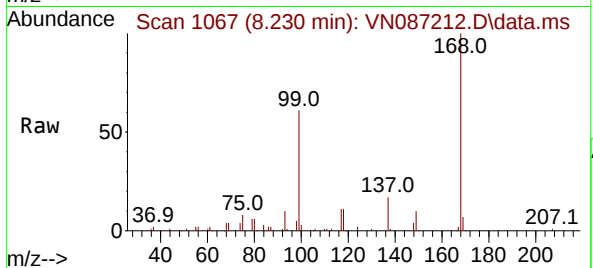




#38
Carbon Tetrachloride
Concen: 6.152 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

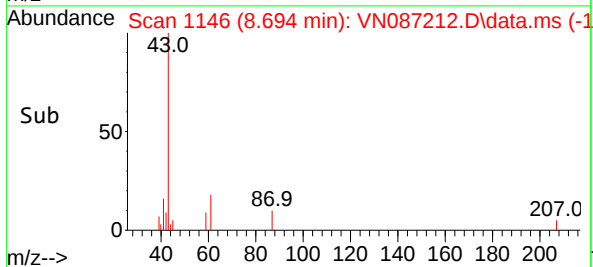
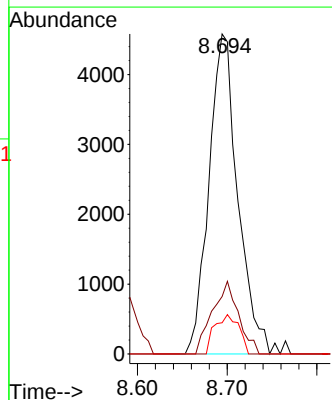
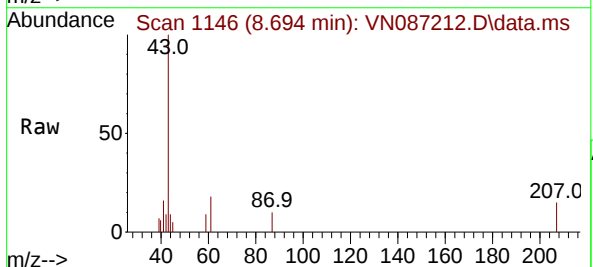
Instrument :
MSVOA_N
ClientSampleId :
EP-7

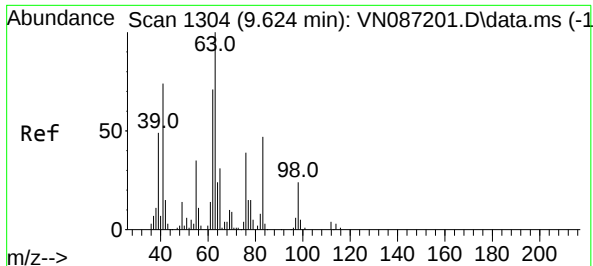
Tgt Ion:117 Resp: 14612
Ion Ratio Lower Upper
117 100
119 3.6 77.4 116.0#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 2.288 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 43 Resp: 10260
Ion Ratio Lower Upper
43 100
61 20.5 21.0 31.6#
87 10.3 11.0 16.6#





#45

1,2-Dichloropropane

Concen: 0.592 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

Instrument :

MSVOA_N

ClientSampleId :

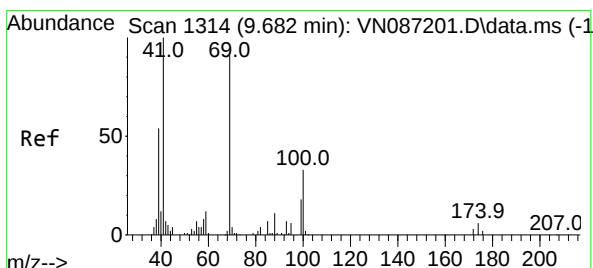
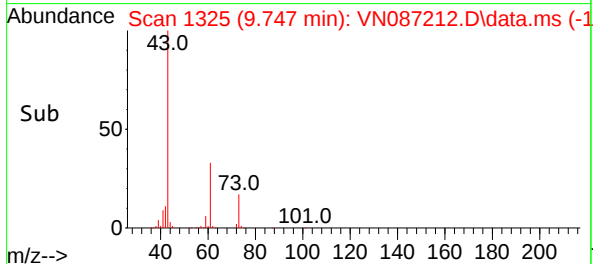
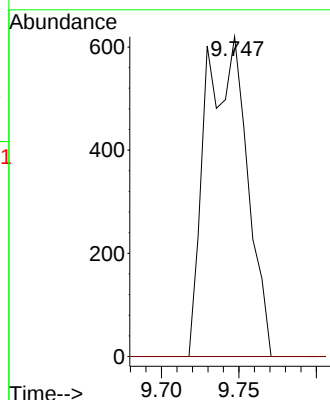
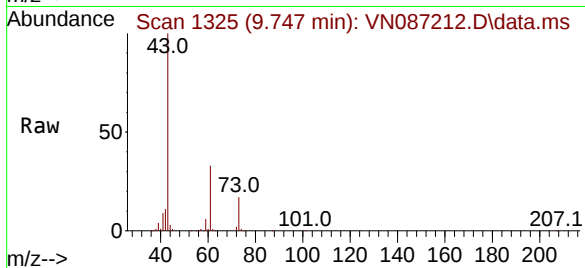
EP-7

Tgt Ion: 63 Resp: 1150

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 37.380 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

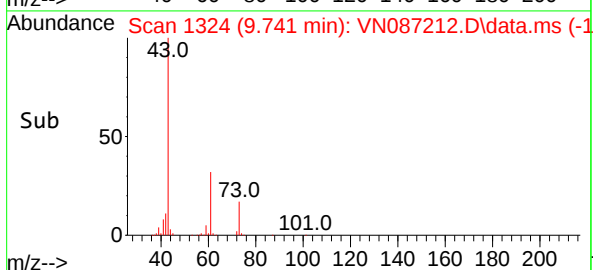
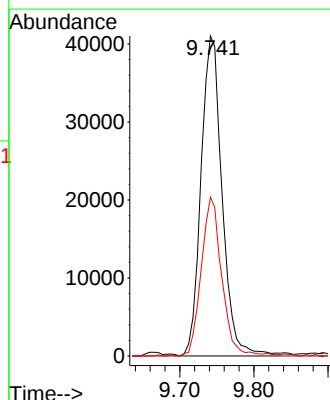
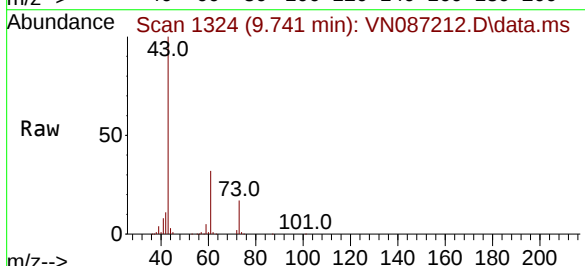
Tgt Ion: 41 Resp: 81034

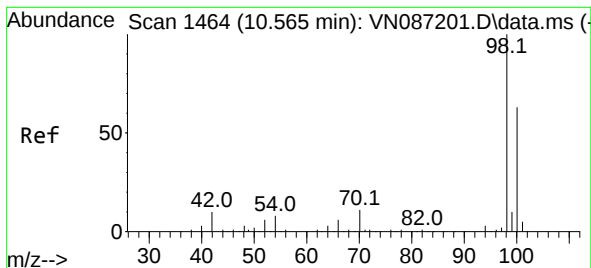
Ion Ratio Lower Upper

41 100

69 0.0 69.9 104.9#

39 48.1 43.8 65.6

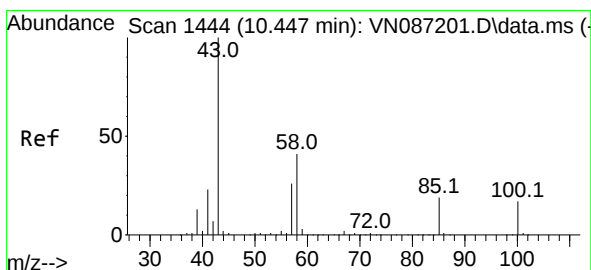
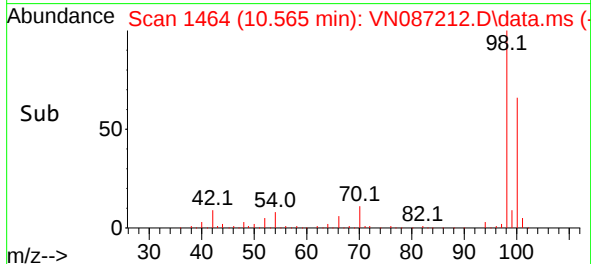
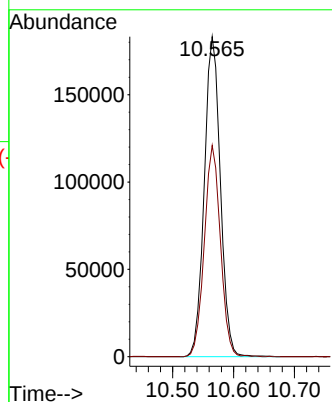
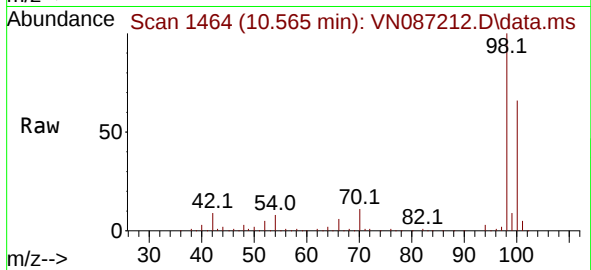




#50
Toluene-d8
Concen: 48.928 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

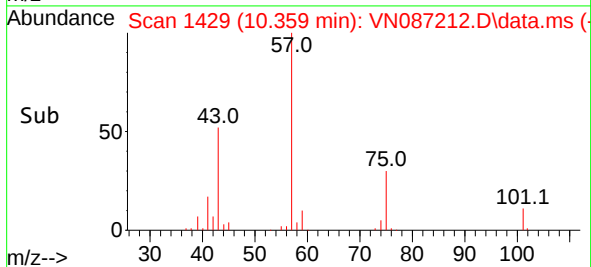
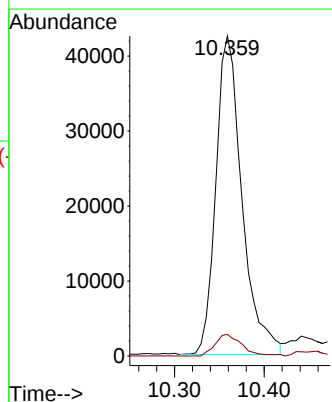
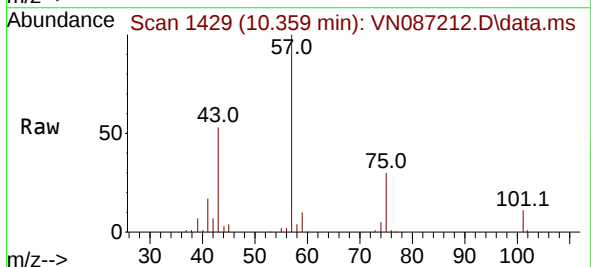
Instrument :
MSVOA_N
ClientSampleId :
EP-7

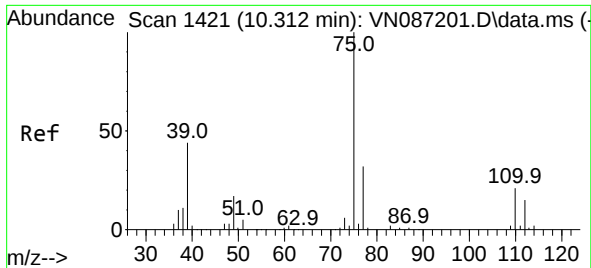
Tgt Ion: 98 Resp: 336954
Ion Ratio Lower Upper
98 100
100 66.0 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 24.024 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 43 Resp: 85854
Ion Ratio Lower Upper
43 100
58 7.0 32.6 48.8#

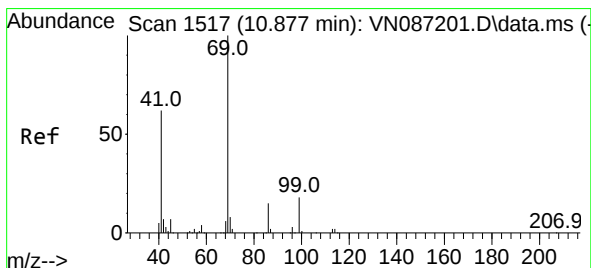
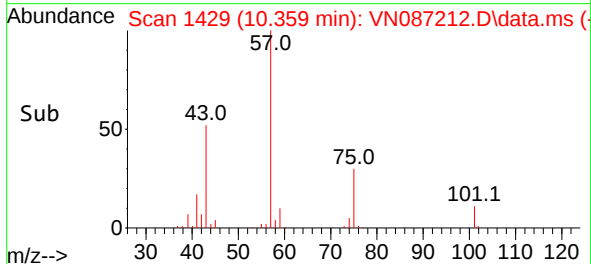
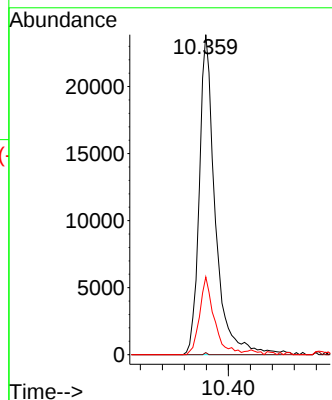
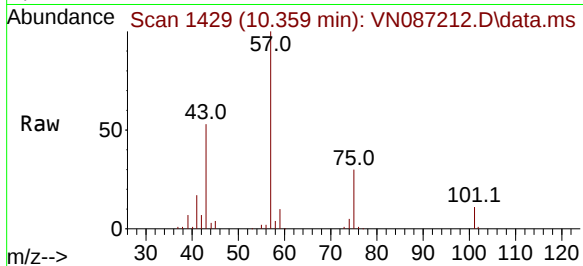




#54
 cis-1,3-Dichloropropene
 Concen: 15.348 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087212.D
 Acq: 27 Jun 2025 11:48

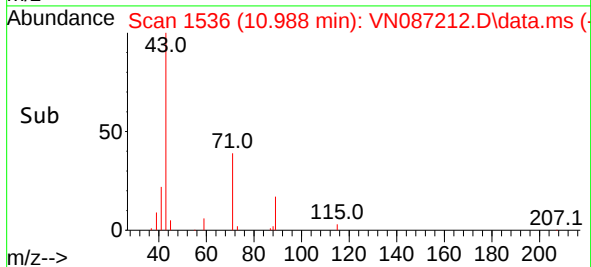
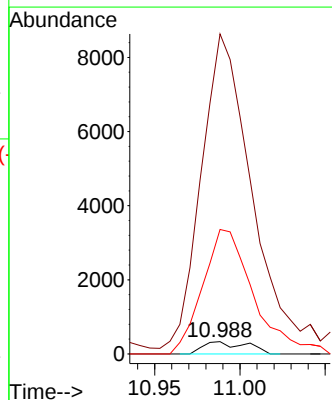
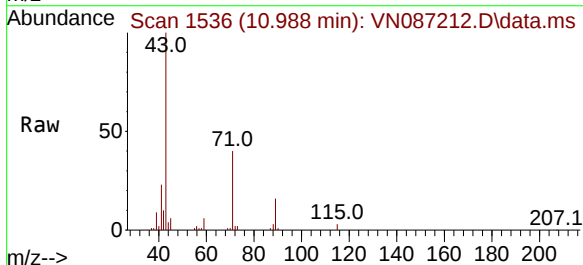
Instrument :
 MSVOA_N
 ClientSampleId :
 EP-7

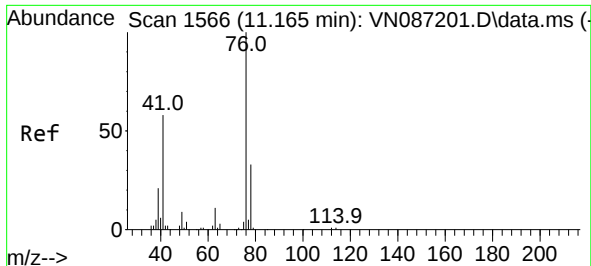
Tgt Ion: 75 Resp: 48138
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.2#
 39 24.3 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: Below Cal
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN087212.D
 Acq: 27 Jun 2025 11:48

Tgt Ion: 69 Resp: 586
 Ion Ratio Lower Upper
 69 100
 41 3077.6 48.4 72.6#
 39 1193.3 24.1 36.1#





#57

1,3-Dichloropropane

Concen: 0.893 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

Instrument :

MSVOA_N

ClientSampleId :

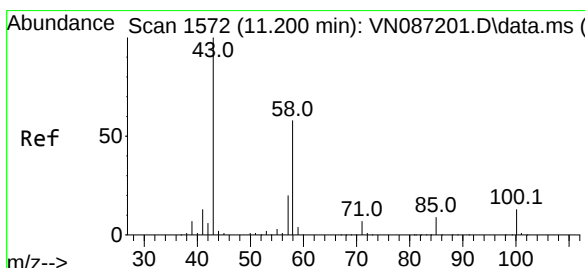
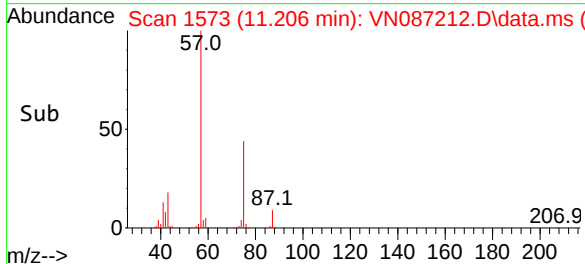
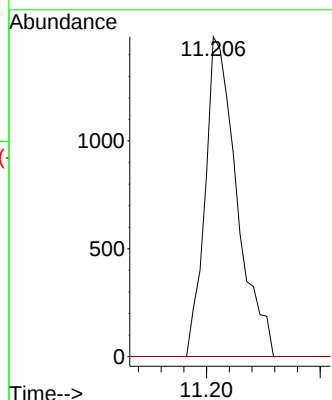
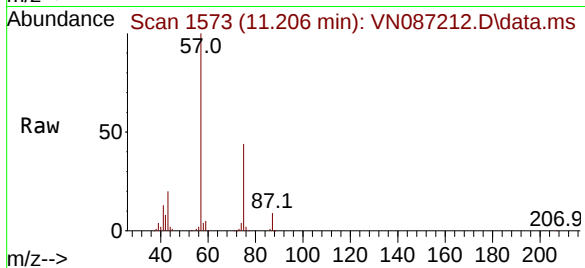
EP-7

Tgt Ion: 76 Resp: 2874

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 16.420 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087212.D

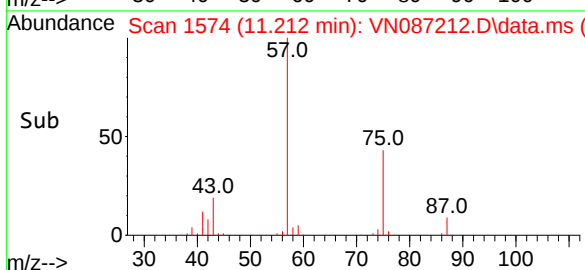
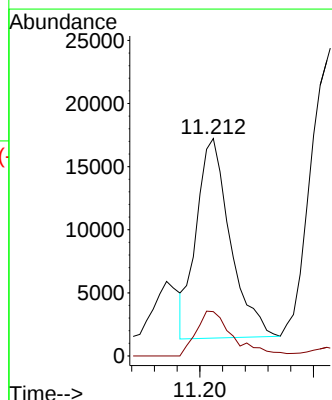
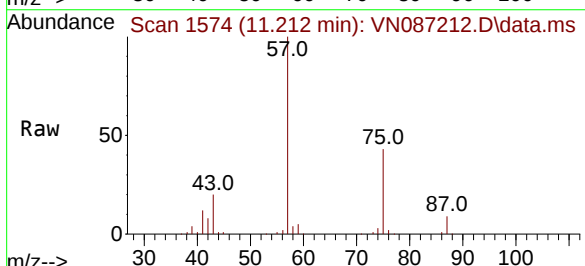
Acq: 27 Jun 2025 11:48

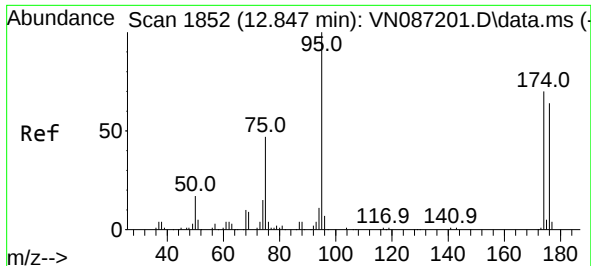
Tgt Ion: 43 Resp: 32755

Ion Ratio Lower Upper

43 100

58 24.5 31.1 93.3#

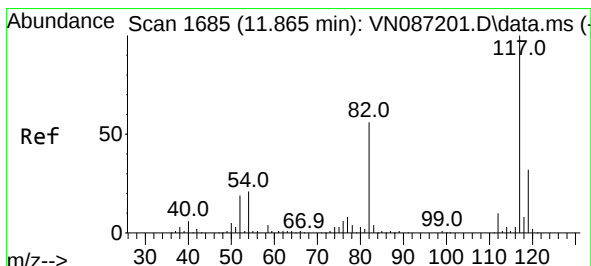
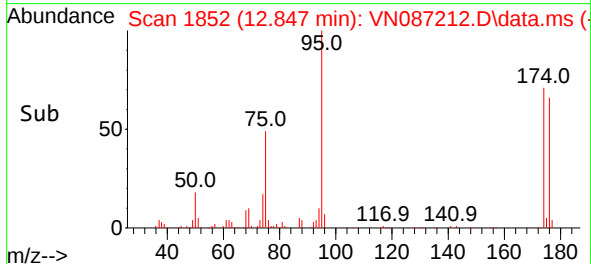
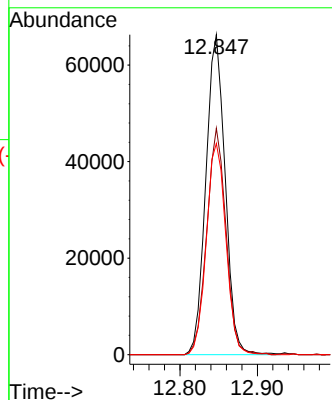
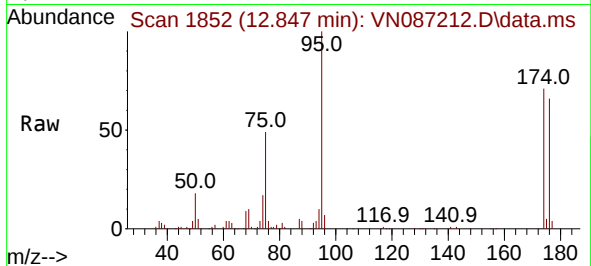




#62
4-Bromofluorobenzene
Concen: 47.988 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

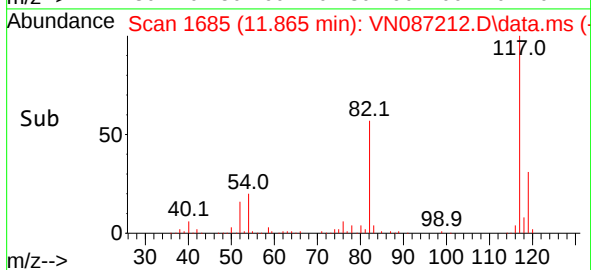
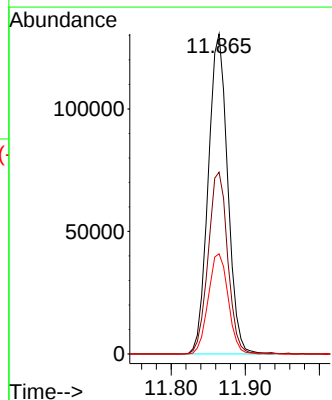
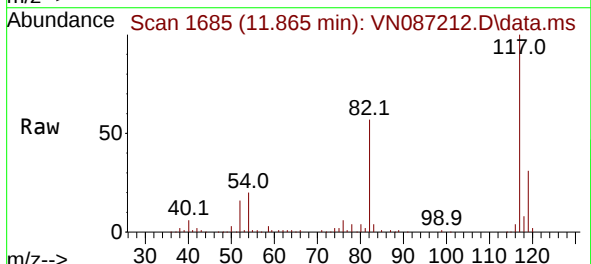
Instrument :
MSVOA_N
ClientSampleId :
EP-7

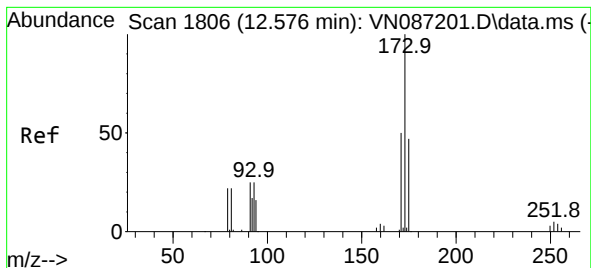
Tgt Ion: 95 Resp: 114673
Ion Ratio Lower Upper
95 100
174 70.4 0.0 142.2
176 67.1 0.0 134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 117 Resp: 237725
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 31.3 25.9 38.9





#71

Bromoform

Concen: 0.298 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

Instrument :

MSVOA_N

ClientSampleId :

EP-7

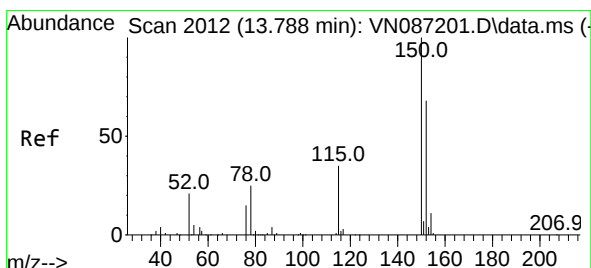
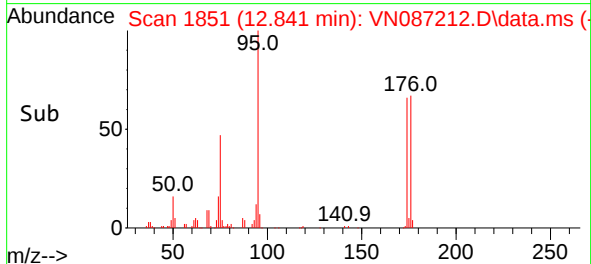
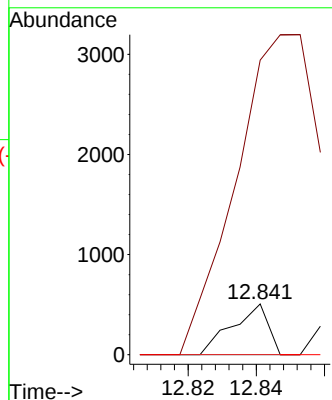
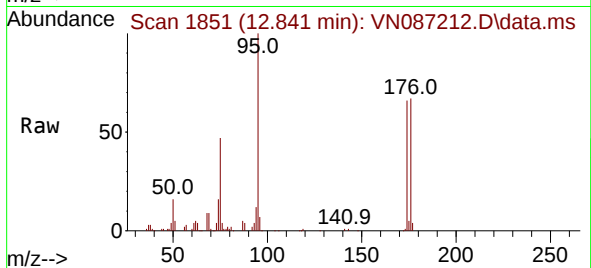
Tgt Ion:173 Resp: 372

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

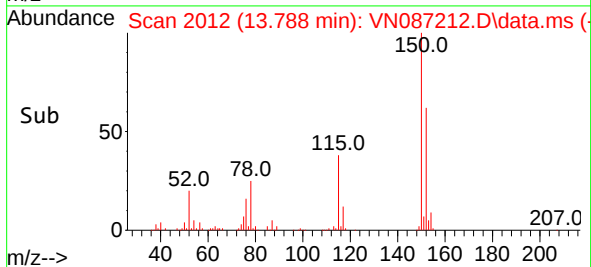
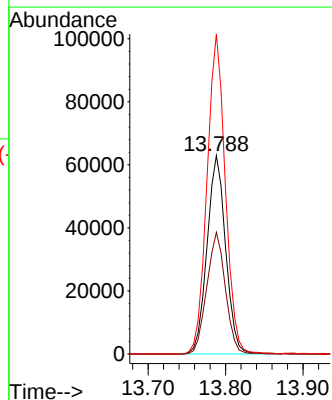
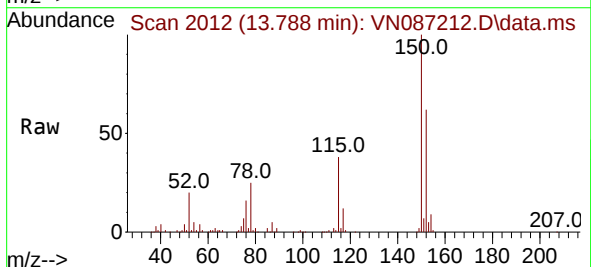
Tgt Ion:152 Resp: 105236

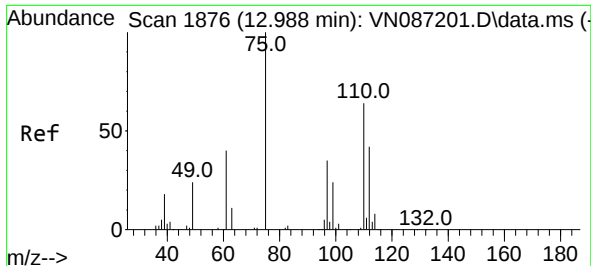
Ion Ratio Lower Upper

152 100

115 61.1 30.6 91.8

150 158.3 0.0 347.8

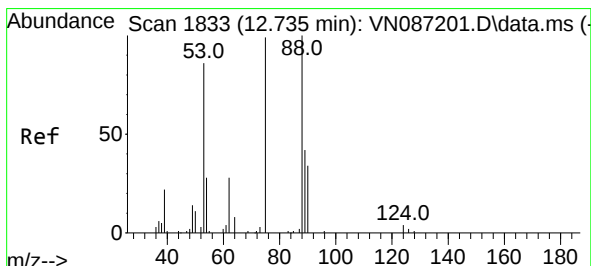
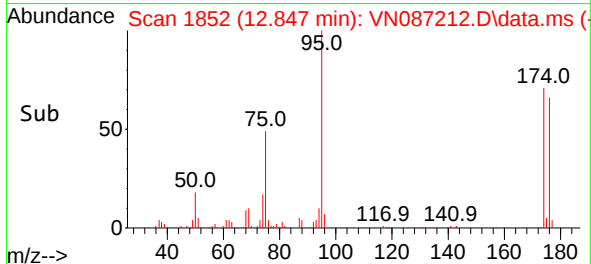
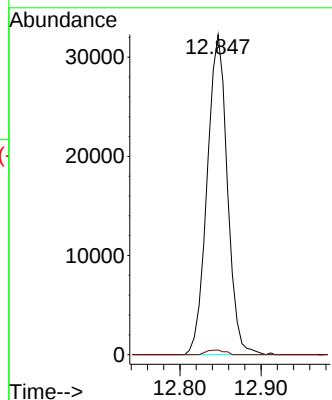
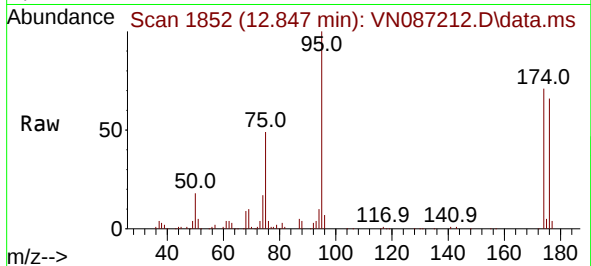




#76
1,2,3-Trichloropropane
Concen: 23.778 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

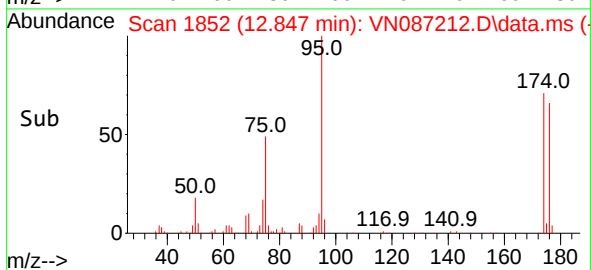
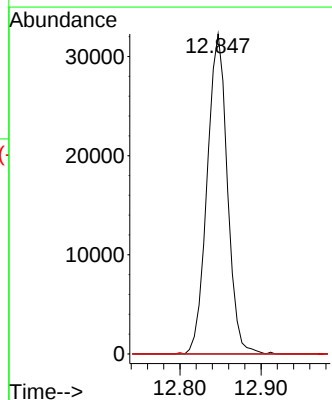
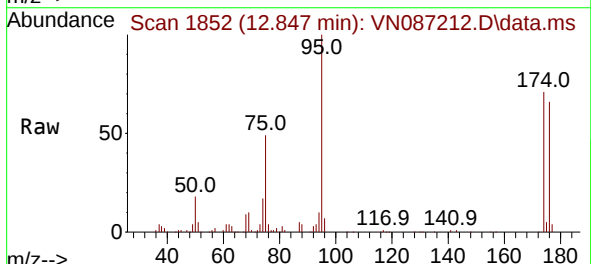
Instrument :
MSVOA_N
ClientSampleId :
EP-7

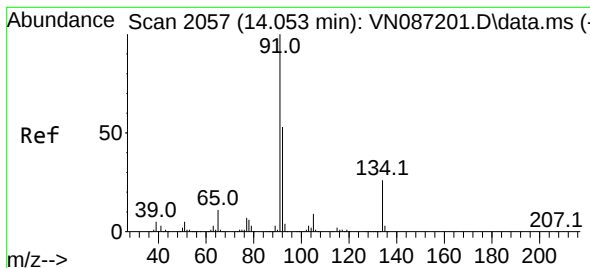
Tgt Ion: 75 Resp: 55829
Ion Ratio Lower Upper
75 100
77 1.3 85.5 256.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 53.367 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087212.D
Acq: 27 Jun 2025 11:48

Tgt Ion: 75 Resp: 55829
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.0#
89 0.0 37.9 56.9#





#89

n-Butylbenzene

Concen: 0.241 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

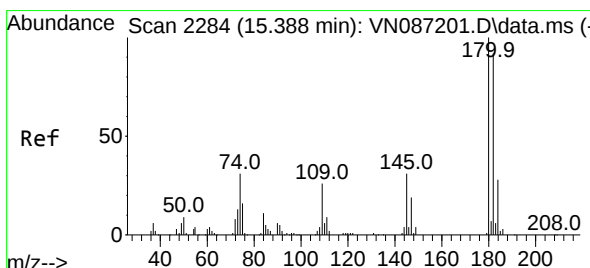
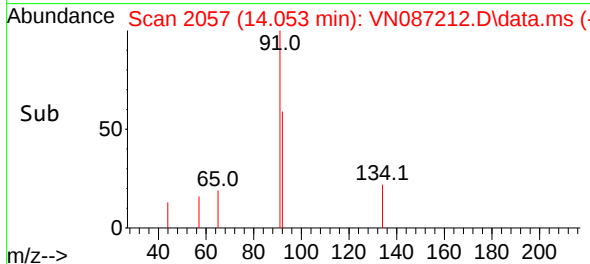
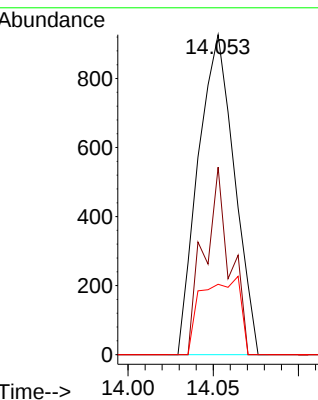
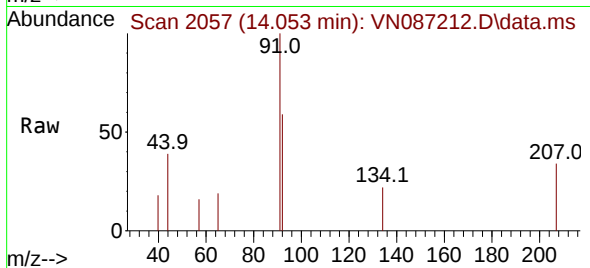
Instrument :

MSVOA_N

ClientSampleId :

EP-7

Tgt Ion: 91	Resp:	1369
Ion	Ratio	Lower Upper
91	100	
92	42.3	26.9 80.7
134	25.8	12.8 38.4



#93

1,2,4-Trichlorobenzene

Concen: 0.293 ug/l

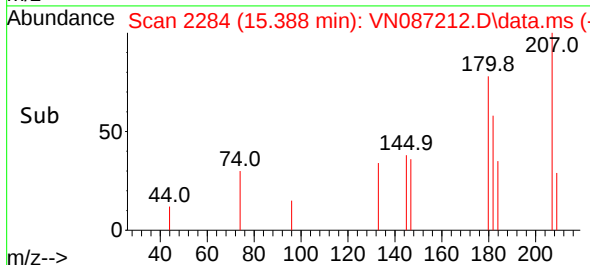
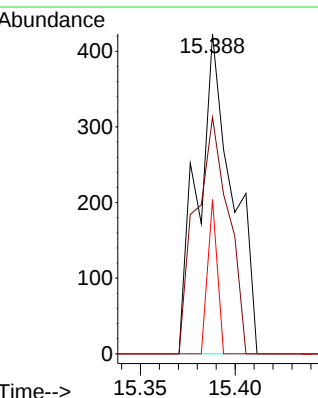
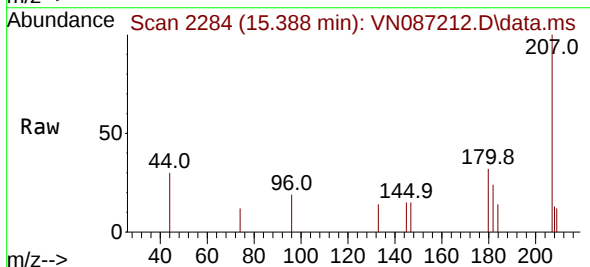
RT: 15.388 min Scan# 2284

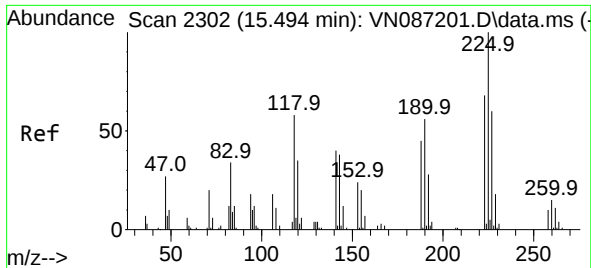
Delta R.T. 0.000 min

Lab File: VN087212.D

Acq: 27 Jun 2025 11:48

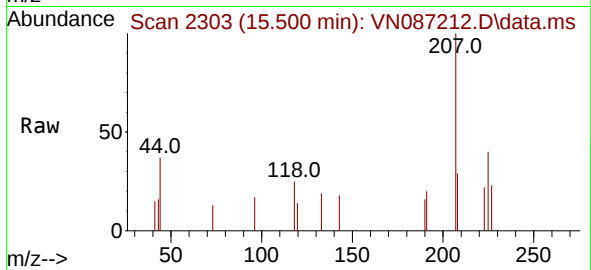
Tgt Ion: 180	Resp:	535
Ion	Ratio	Lower Upper
180	100	
182	69.9	47.1 141.3
145	13.5	16.2 48.5





#94
 Hexachlorobutadiene
 Concen: 1.008 ug/l
 RT: 15.500 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087212.D
 Acq: 27 Jun 2025 11:48

Instrument :
 MSVOA_N
 ClientSampleId :
 EP-7



Tgt Ion:	225	Resp:	581
Ion	Ratio	Lower	Upper
225	100		
223	52.3	32.9	98.6
227	53.2	32.0	96.2

