

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087216.D
 Acq On : 27 Jun 2025 13:10
 Operator : JC\MD
 Sample : Q2414-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

Quant Time: Jun 27 23:43:42 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)

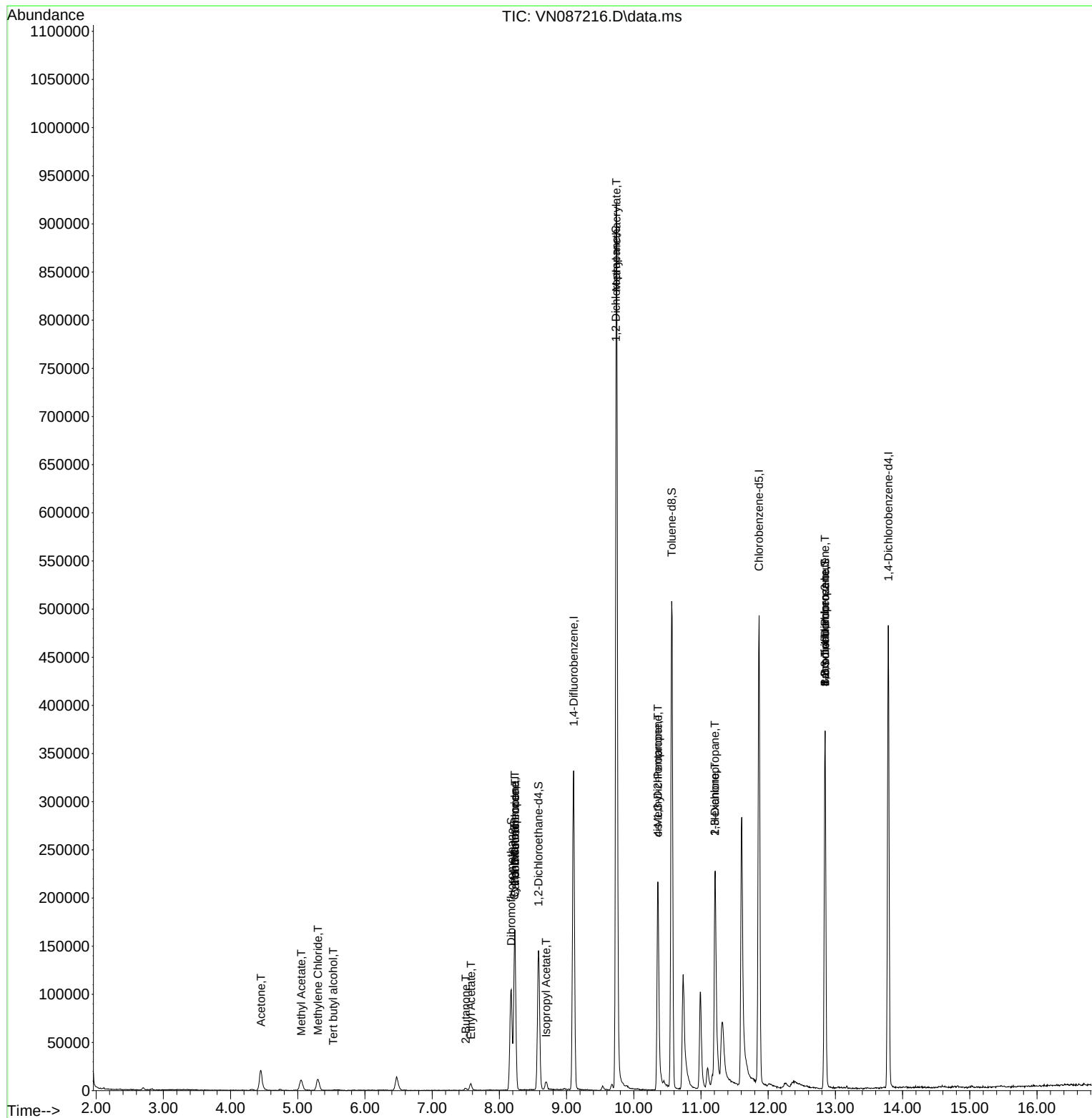
Internal Standards						
1) Pentafluorobenzene	8.230	168	125710	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	293036	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	134948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	122877	67.922	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 135.840%#	
35) Dibromofluoromethane	8.177	113	78957	41.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 83.360%	
50) Toluene-d8	10.565	98	372856	47.585	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.180%	
62) 4-Bromofluorobenzene	12.847	95	143998	52.963	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.920%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	145	0.364	ug/l #	73
14) Allyl chloride	5.065	41	56	Below Cal	#	23
16) Acetone	4.453	43	41565	36.633	ug/l	96
17) Carbon Disulfide	4.748	76	697	Below Cal	#	76
18) Methyl Acetate	5.053	43	24409	10.392	ug/l	99
20) Methylene Chloride	5.300	84	9848	4.482	ug/l	92
25) 2-Butanone	7.500	43	3623	2.641	ug/l	97
31) Cyclohexane	8.224	56	2725	0.973	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	9978	3.596	ug/l #	50
37) Ethyl Acetate	7.577	43	10855	0.777	ug/l	99
38) Carbon Tetrachloride	8.236	117	12617	4.668	ug/l #	15
43) Isopropyl Acetate	8.694	43	10192	1.998	ug/l #	78
45) 1,2-Dichloropropane	9.735	63	1136	0.514	ug/l #	44
48) Methyl methacrylate	9.741	41	79888	32.389	ug/l #	38
51) 4-Methyl-2-Pentanone	10.359	43	89799	21.900	ug/l #	46
54) cis-1,3-Dichloropropene	10.359	75	50480	14.146	ug/l #	59
56) Ethyl methacrylate	10.853	69	112	Below Cal	#	28
57) 1,3-Dichloropropane	11.206	76	3271	0.893	ug/l #	43
59) 2-Hexanone	11.206	43	37093	16.343	ug/l #	52
71) Bromoform	12.847	173	677	0.441	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	70232	23.326	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70232	52.353	ug/l #	13

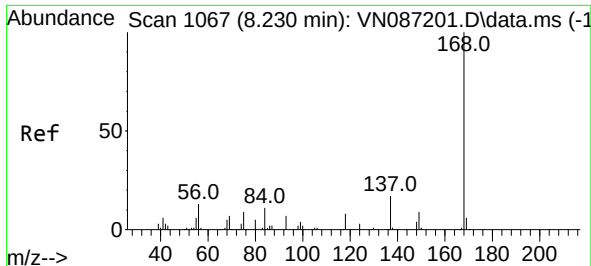
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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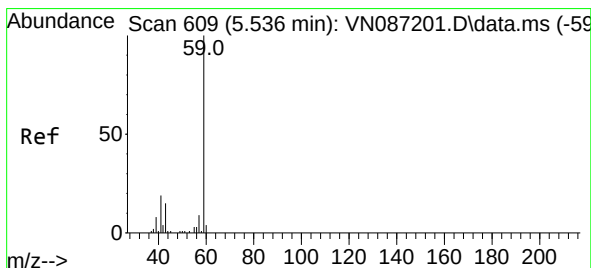
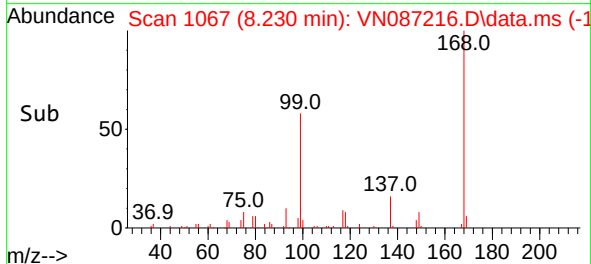
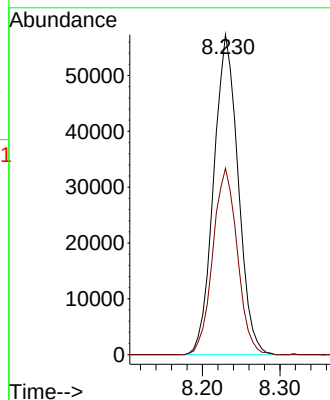
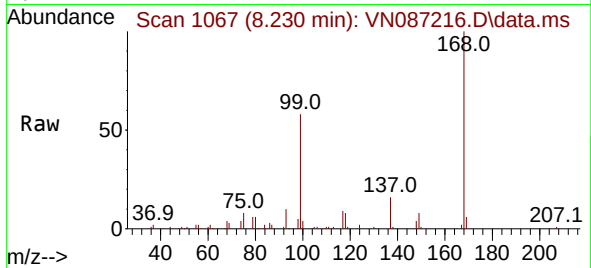




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

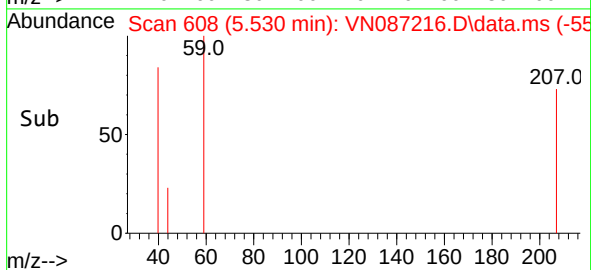
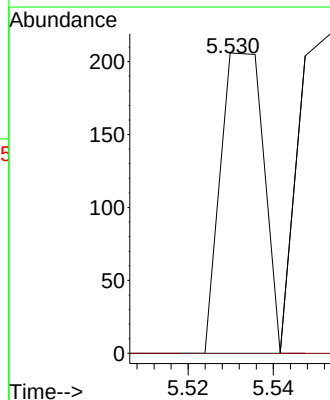
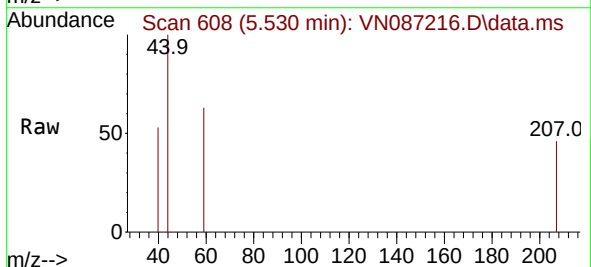
Instrument :
MSVOA_N
ClientSampleId :
WC-1

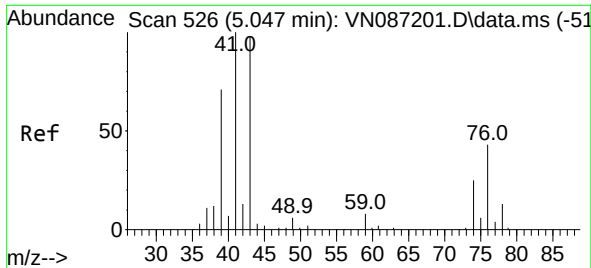
Tgt Ion:168 Resp: 125710
Ion Ratio Lower Upper
168 100
99 58.3 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.364 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion: 59 Resp: 145
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

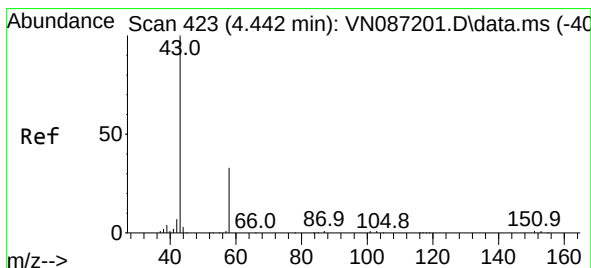
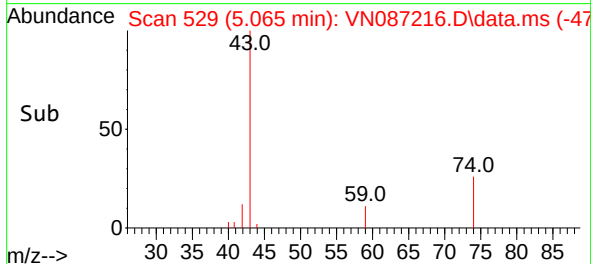
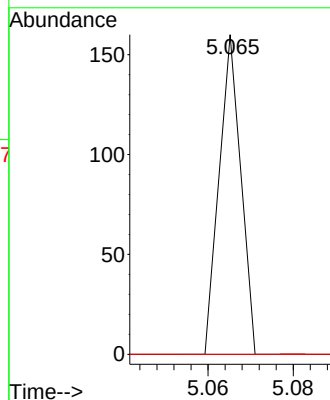
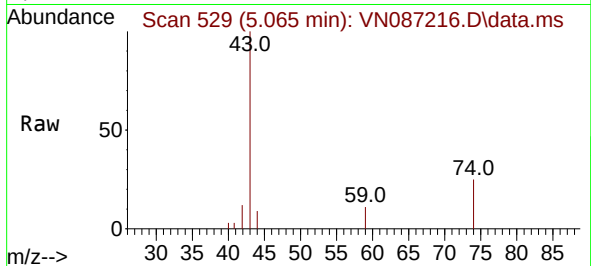




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.065 min Scan# 51
 Delta R.T. 0.018 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

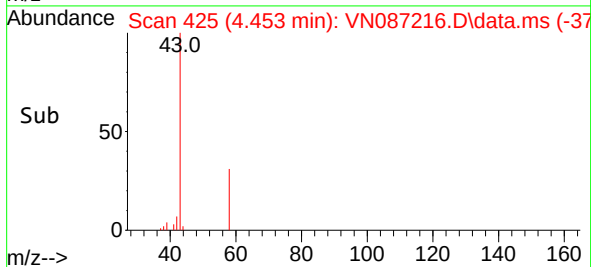
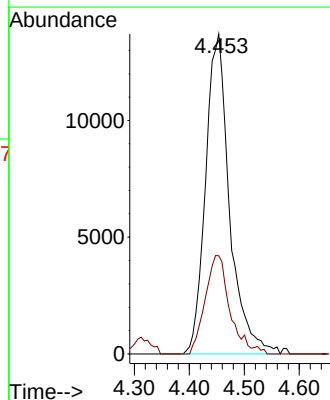
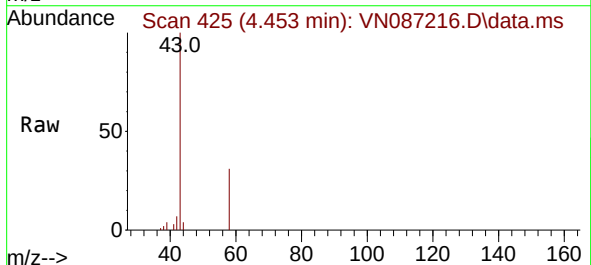
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

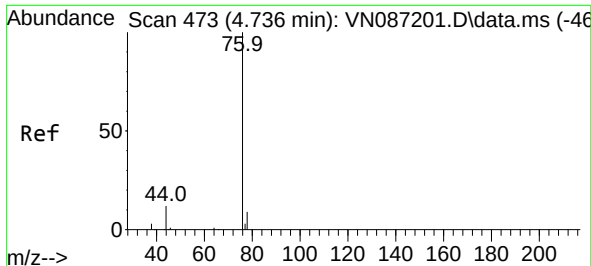
Tgt Ion: 41	Resp: 56
Ion Ratio	Lower Upper
41	100
39	0.0 55.0 82.6#
76	0.0 31.3 46.9#



#16
 Acetone
 Concen: 36.633 ug/l
 RT: 4.453 min Scan# 425
 Delta R.T. 0.011 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

Tgt Ion: 43	Resp: 41565
Ion Ratio	Lower Upper
43	100
58	30.7 26.5 39.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.748 min Scan# 473

Delta R.T. 0.012 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

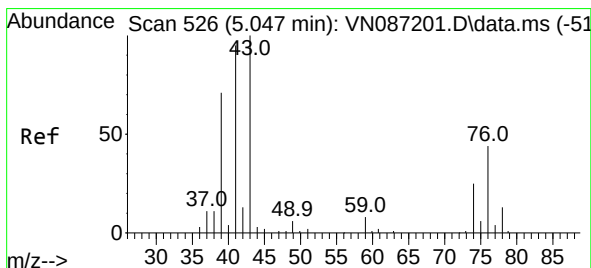
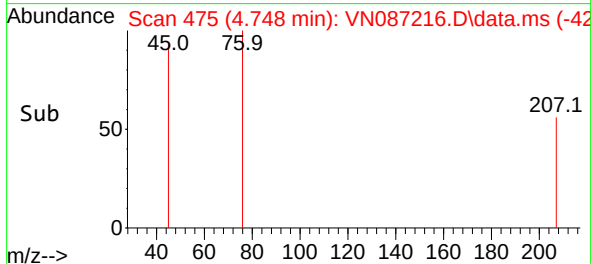
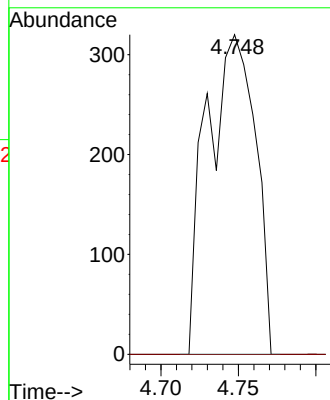
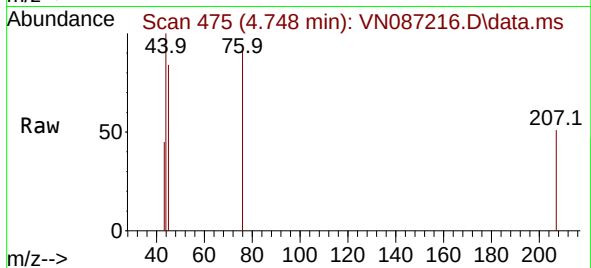
WC-1

Tgt Ion: 76 Resp: 697

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 10.392 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.006 min

Lab File: VN087216.D

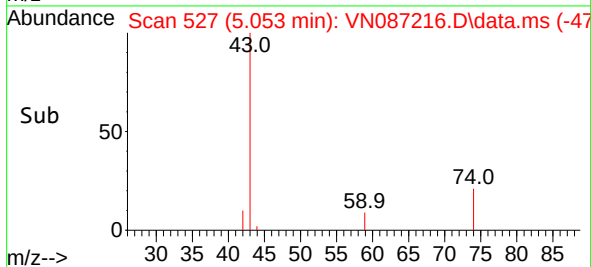
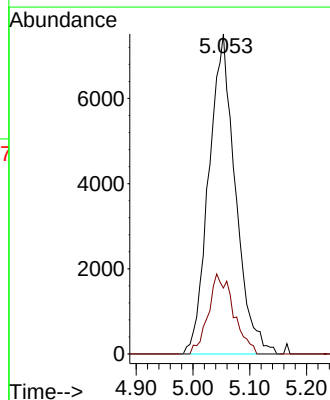
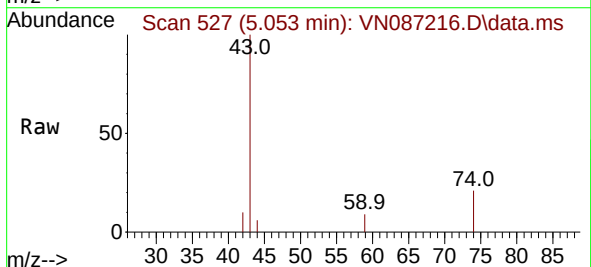
Acq: 27 Jun 2025 13:10

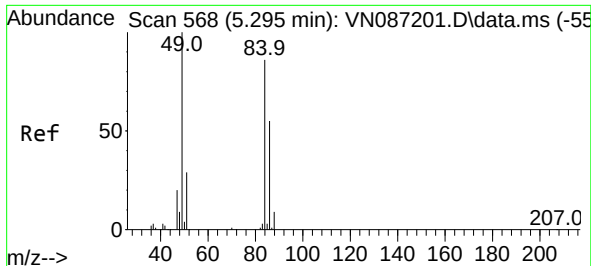
Tgt Ion: 43 Resp: 24409

Ion Ratio Lower Upper

43 100

74 23.8 19.4 29.2

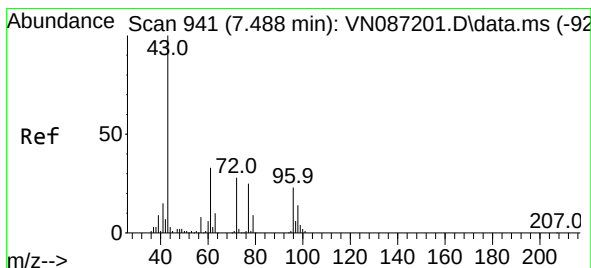
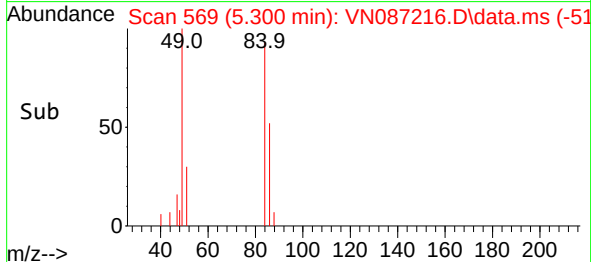
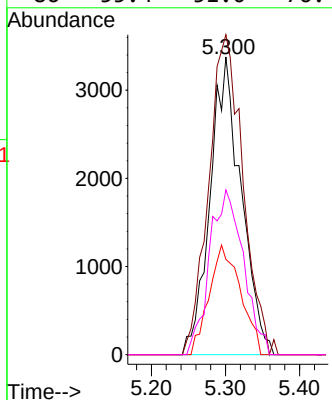
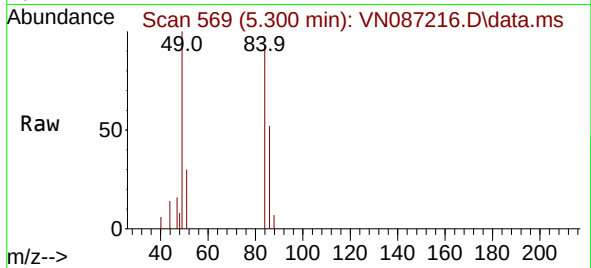




#20
Methylene Chloride
Concen: 4.482 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

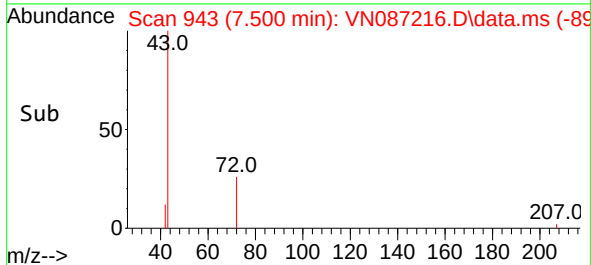
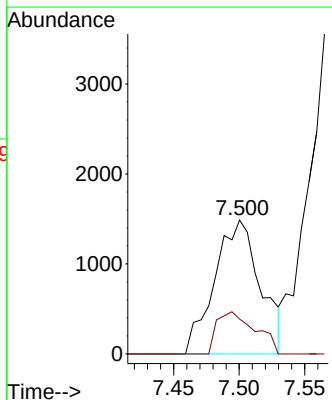
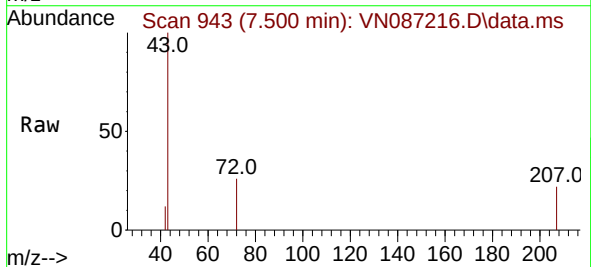
Instrument :
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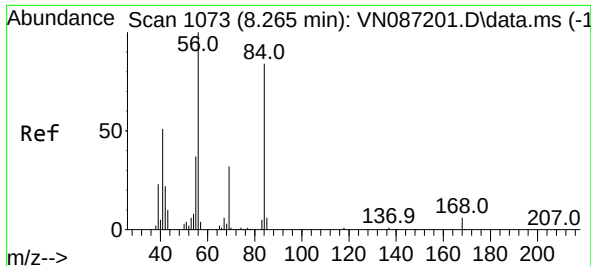
Tgt Ion:	84	Resp:	9848
Ion	Ratio	Lower	Upper
84	100		
49	107.5	93.0	139.6
51	32.0	27.2	40.8
86	55.4	51.0	76.4



#25
2-Butanone
Concen: 2.641 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion:	43	Resp:	3623
Ion	Ratio	Lower	Upper
43	100		
72	26.0	22.2	33.2

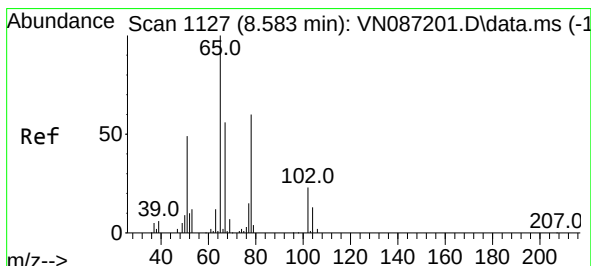
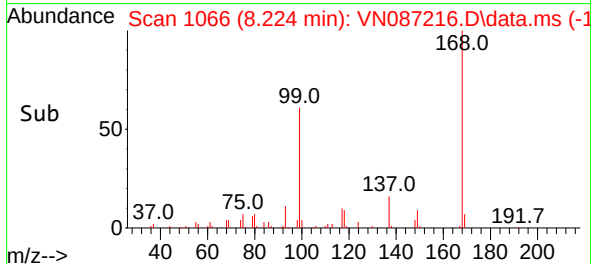
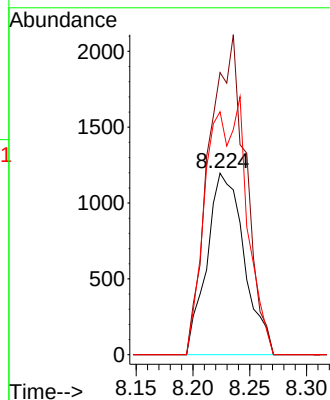
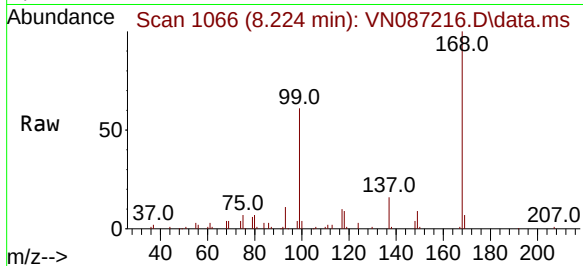




#31
Cyclohexane
Concen: 0.973 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

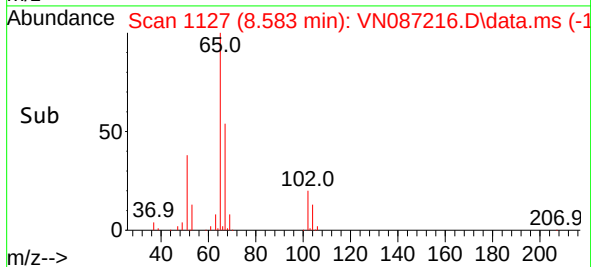
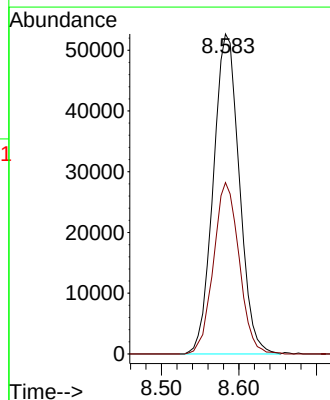
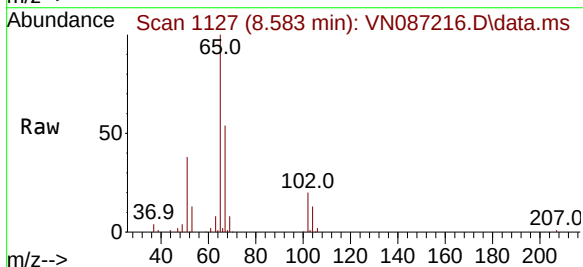
Instrument :
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ClientSampleId :
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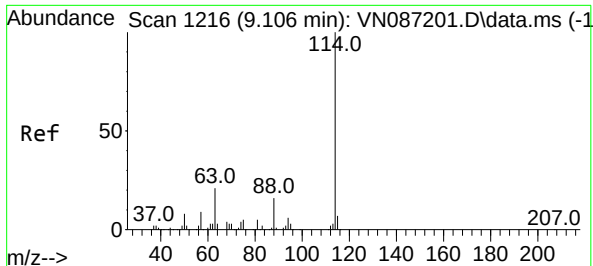
Tgt Ion: 56 Resp: 2725
Ion Ratio Lower Upper
56 100
69 155.4 25.3 37.9#
84 133.8 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 67.922 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion: 65 Resp: 122877
Ion Ratio Lower Upper
65 100
67 52.8 0.0 108.0

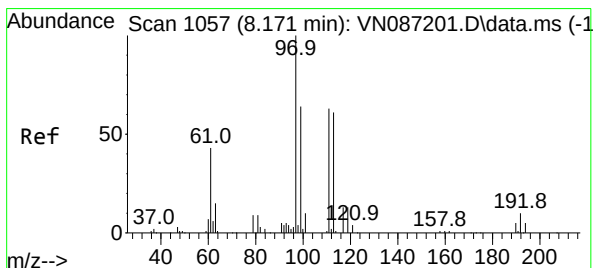
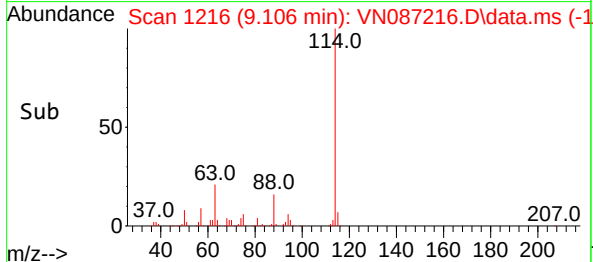
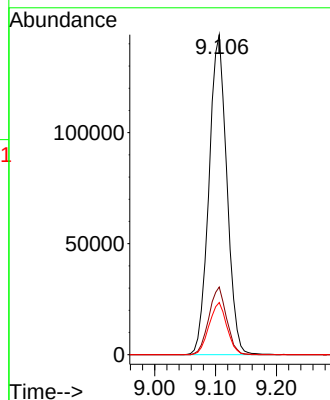
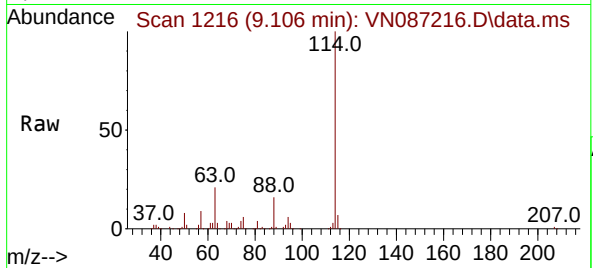




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

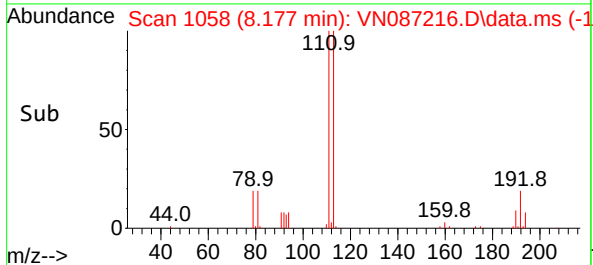
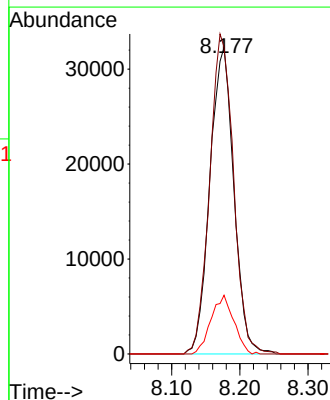
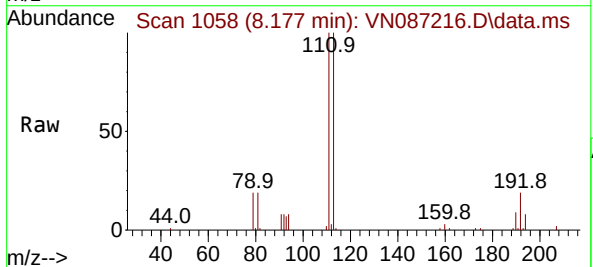
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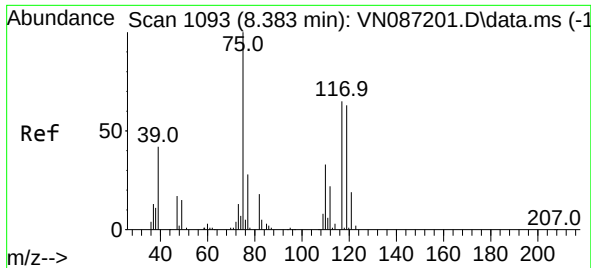
Tgt Ion:114 Resp: 293036
Ion Ratio Lower Upper
114 100
63 21.2 0.0 42.0
88 16.3 0.0 32.0



#35
Dibromofluoromethane
Concen: 41.677 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion:113 Resp: 78957
Ion Ratio Lower Upper
113 100
111 103.9 82.6 124.0
192 18.3 13.5 20.3

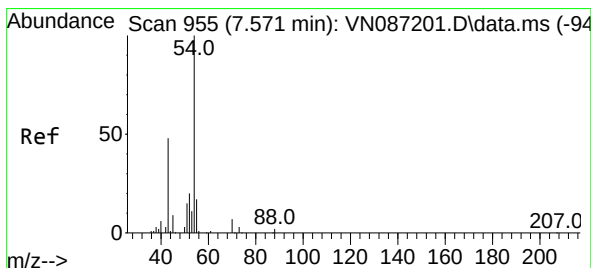
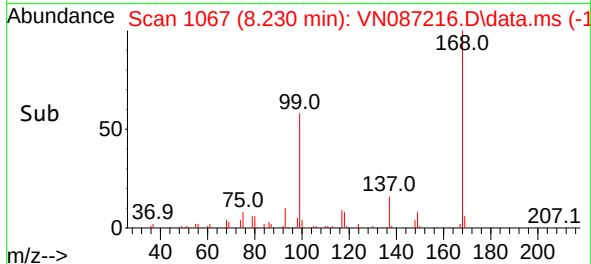
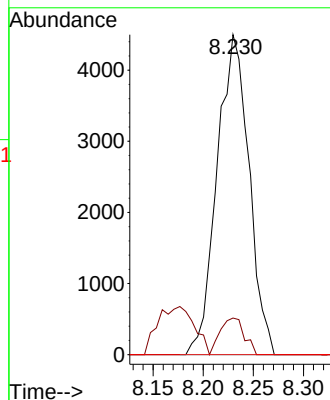
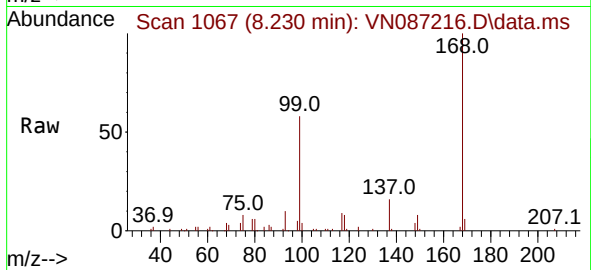




#36
 1,1-Dichloropropene
 Concen: 3.596 ug/l
 RT: 8.230 min Scan# 1093
 Delta R.T. -0.153 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

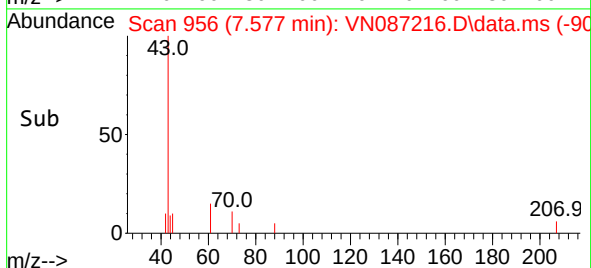
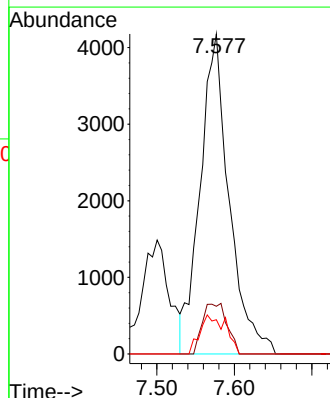
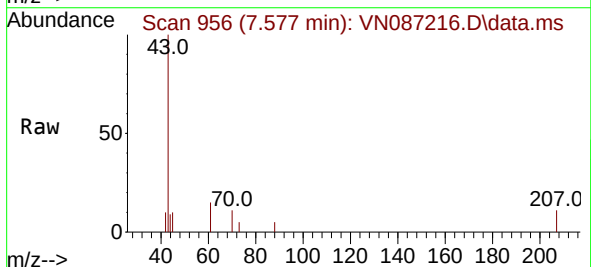
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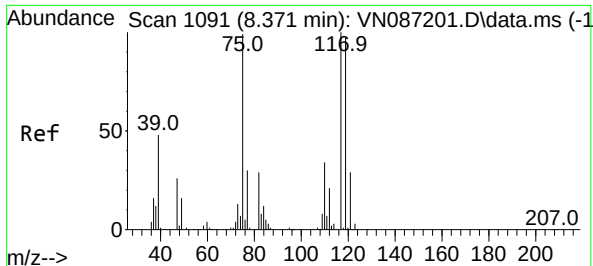
Tgt Ion: 75 Resp: 9978
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.6#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 0.777 ug/l
 RT: 7.577 min Scan# 956
 Delta R.T. 0.006 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

Tgt Ion: 43 Resp: 10855
 Ion Ratio Lower Upper
 43 100
 61 13.4 10.8 16.2
 70 10.8 8.9 13.3

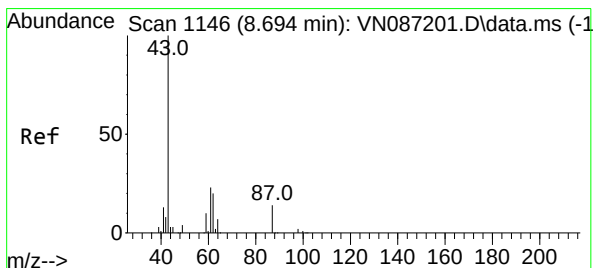
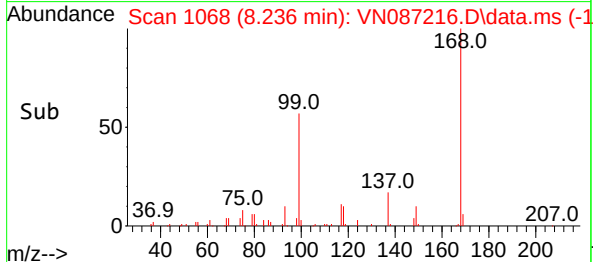
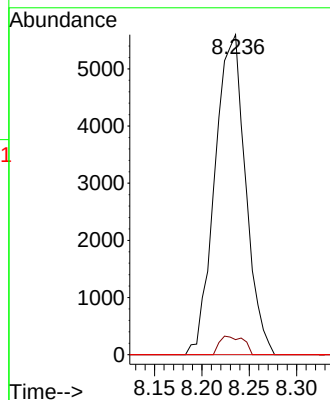
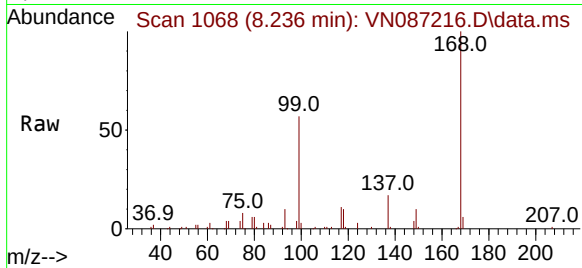




#38
Carbon Tetrachloride
Concen: 4.668 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

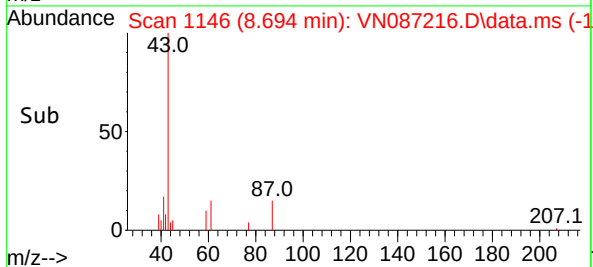
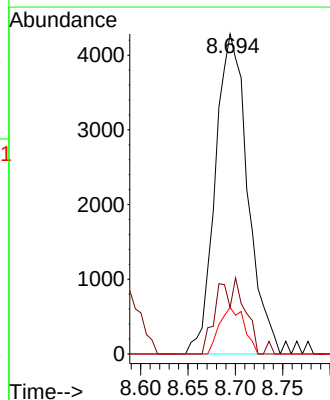
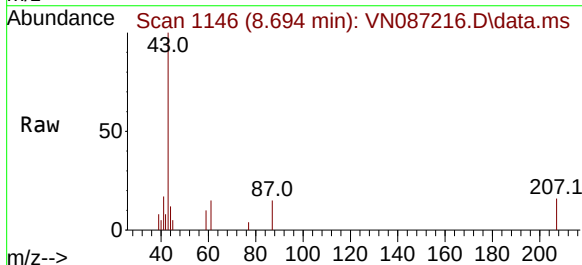
Instrument :
MSVOA_N
ClientSampleId :
WC-1

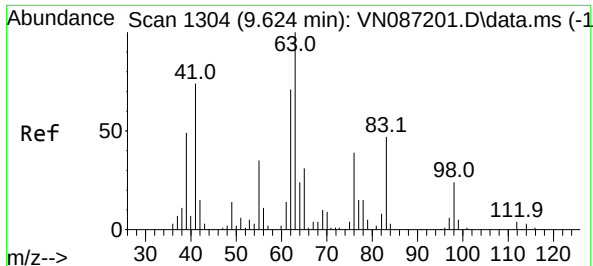
Tgt Ion:117 Resp: 12617
Ion Ratio Lower Upper
117 100
119 4.7 77.4 116.0#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 1.998 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion: 43 Resp: 10192
Ion Ratio Lower Upper
43 100
61 11.1 21.0 31.6#
87 11.1 11.0 16.6





#45

1,2-Dichloropropane

Concen: 0.514 ug/l

RT: 9.735 min Scan# 1136

Delta R.T. 0.112 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

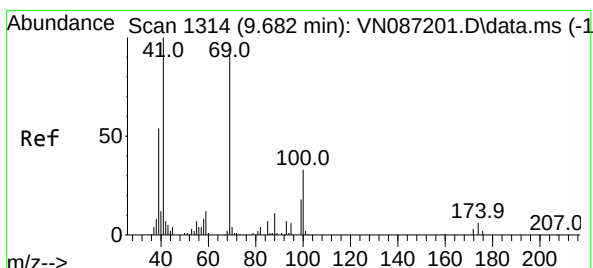
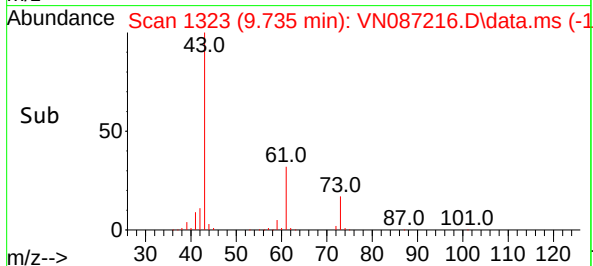
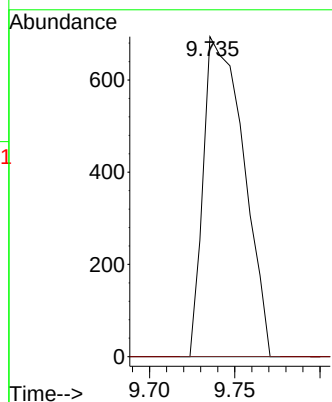
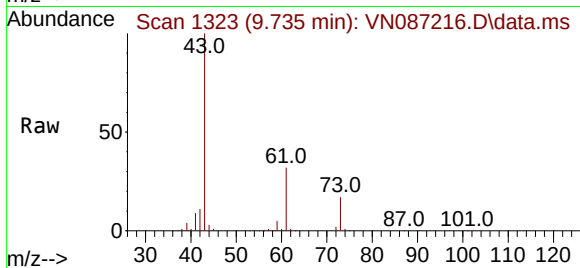
WC-1

Tgt Ion: 63 Resp: 1136

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 32.389 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

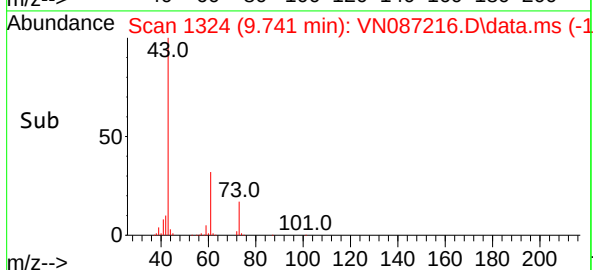
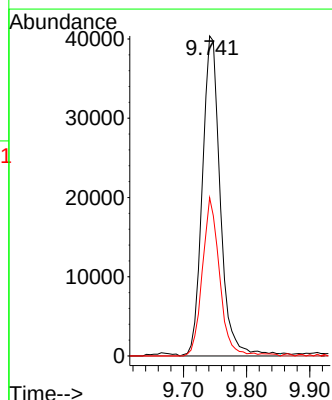
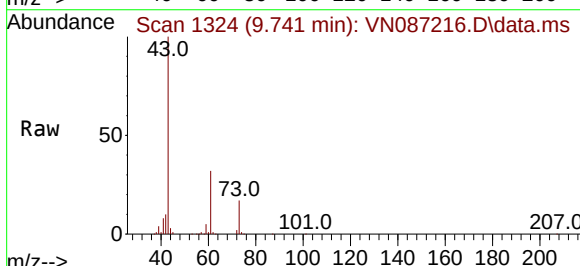
Tgt Ion: 41 Resp: 79888

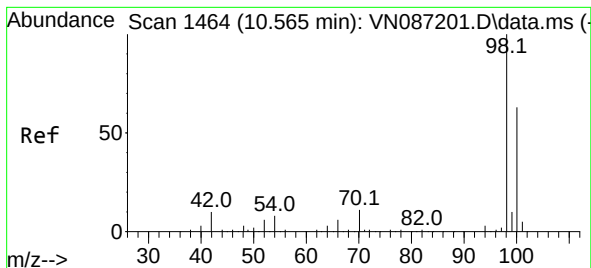
Ion Ratio Lower Upper

41 100

69 0.0 69.9 104.9#

39 47.4 43.8 65.6





#50

Toluene-d8

Concen: 47.585 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

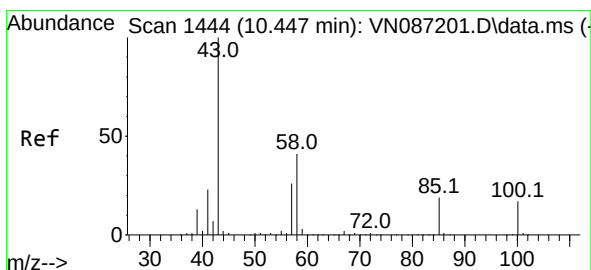
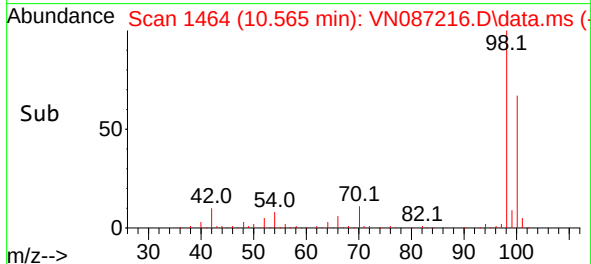
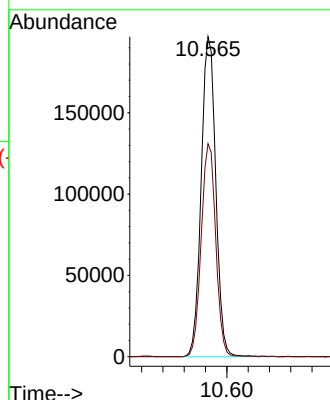
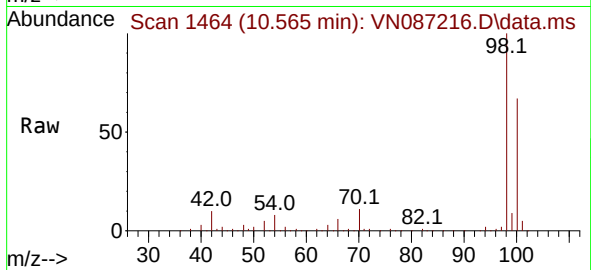
WC-1

Tgt Ion: 98 Resp: 372856

Ion Ratio Lower Upper

98 100

100 66.4 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 21.900 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. -0.088 min

Lab File: VN087216.D

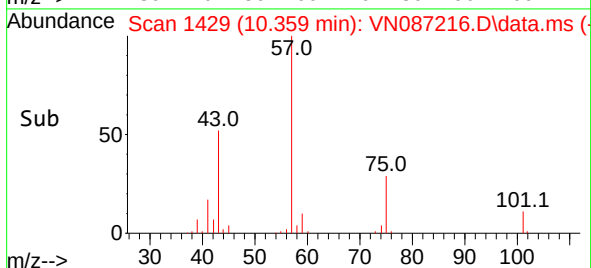
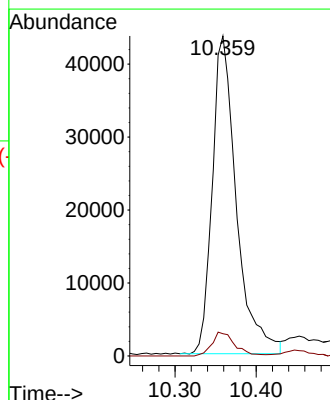
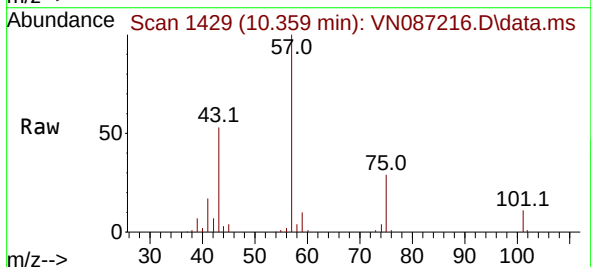
Acq: 27 Jun 2025 13:10

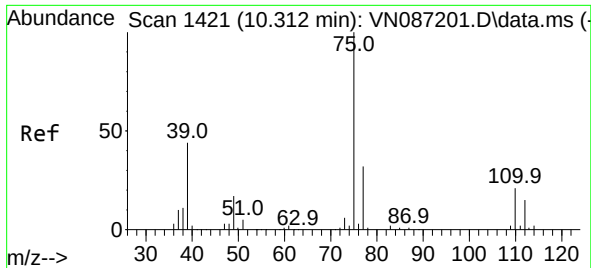
Tgt Ion: 43 Resp: 89799

Ion Ratio Lower Upper

43 100

58 7.2 32.6 48.8#

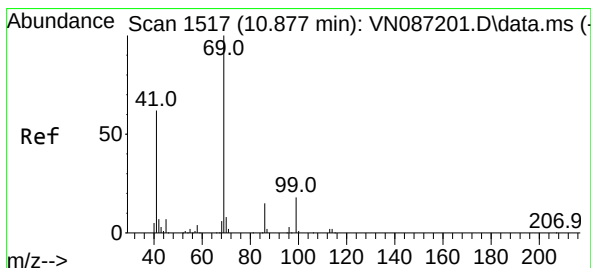
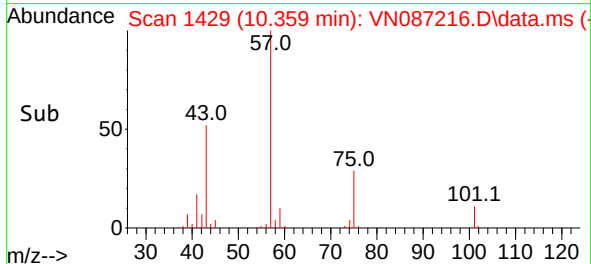
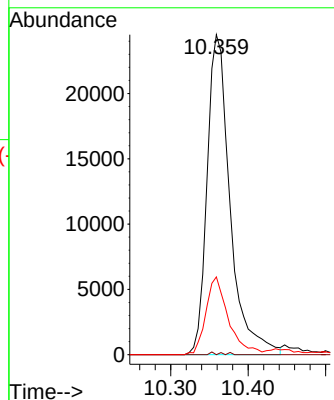
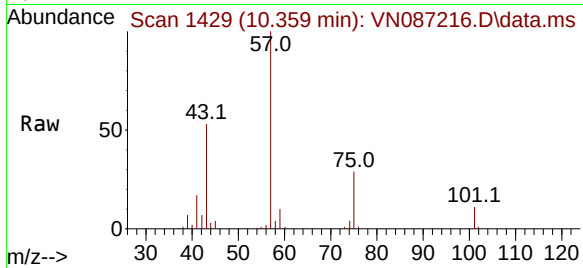




#54
 cis-1,3-Dichloropropene
 Concen: 14.146 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

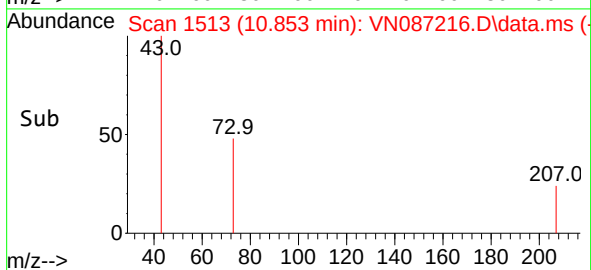
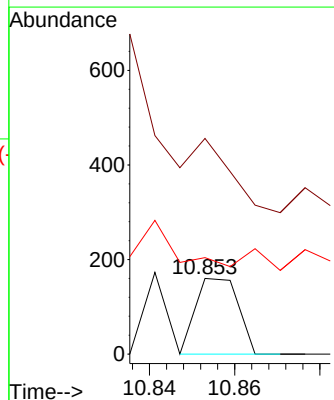
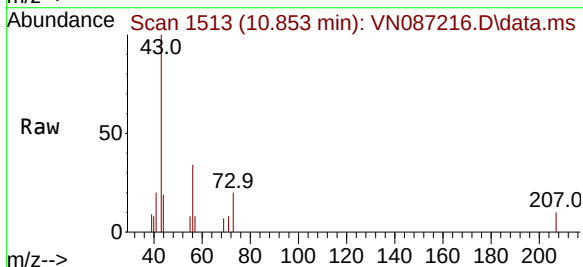
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

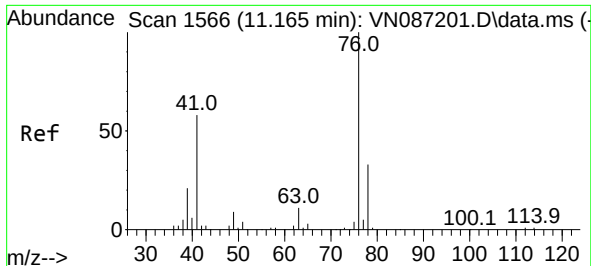
Tgt Ion: 75 Resp: 50480
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 24.3 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: Below Cal
 RT: 10.853 min Scan# 1513
 Delta R.T. -0.024 min
 Lab File: VN087216.D
 Acq: 27 Jun 2025 13:10

Tgt Ion: 69 Resp: 112
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.4 72.6#
 39 0.0 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: VN087216.D

Acq: 27 Jun 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

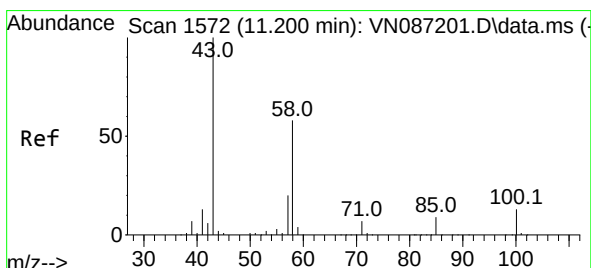
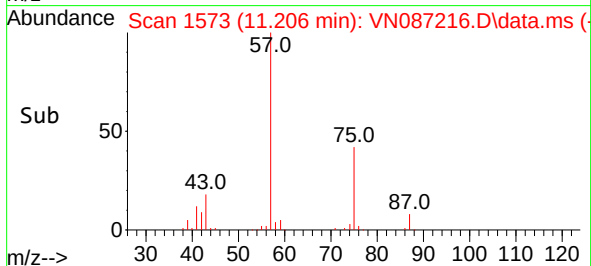
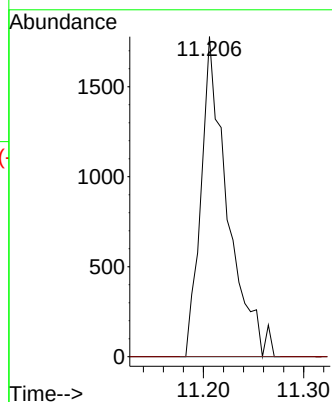
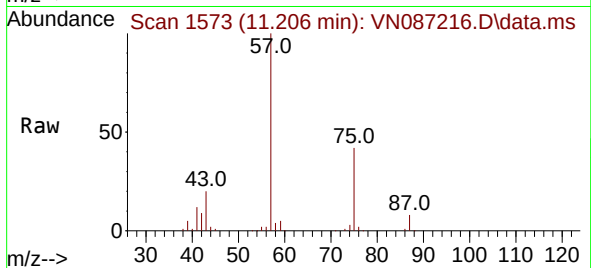
WC-1

Tgt Ion: 76 Resp: 3271

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 16.343 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN087216.D

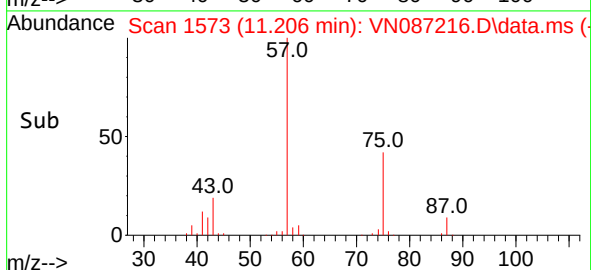
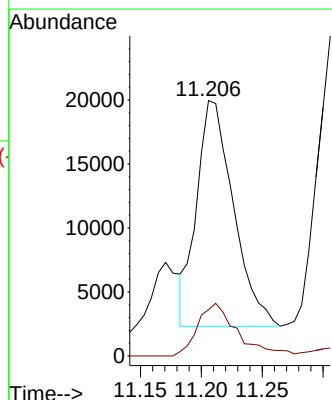
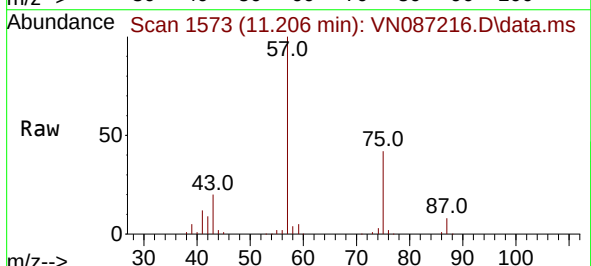
Acq: 27 Jun 2025 13:10

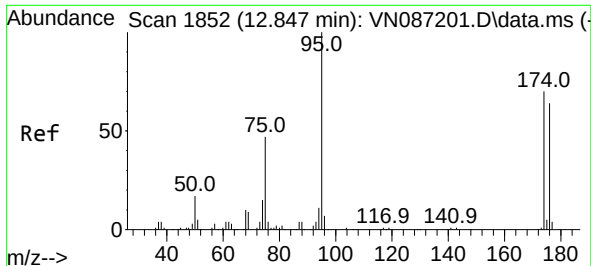
Tgt Ion: 43 Resp: 37093

Ion Ratio Lower Upper

43 100

58 25.0 31.1 93.3#

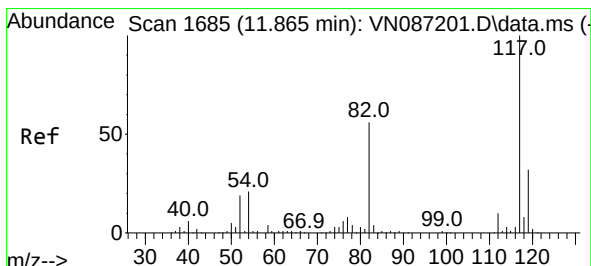
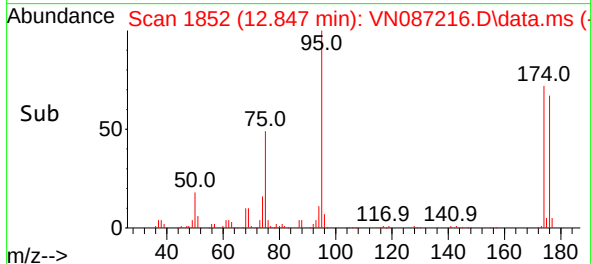
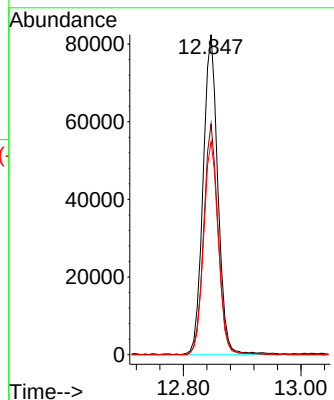
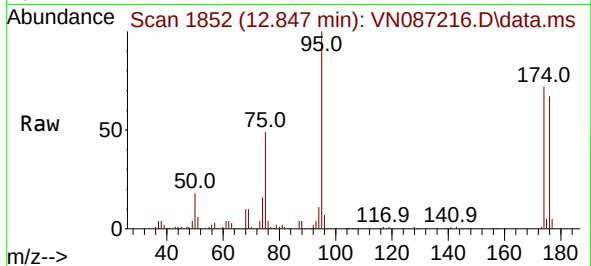




#62
4-Bromofluorobenzene
Concen: 52.963 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

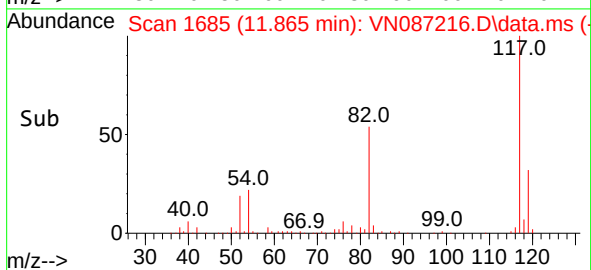
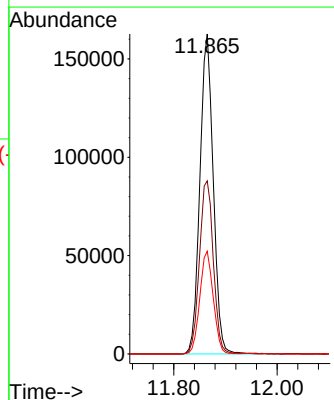
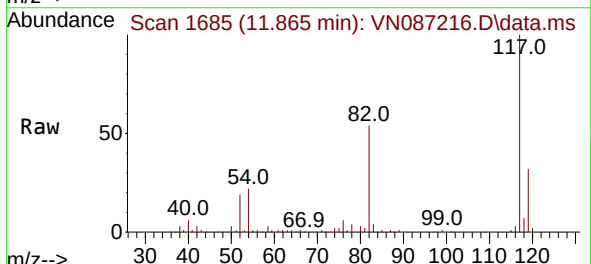
Instrument :
MSVOA_N
ClientSampleId :
WC-1

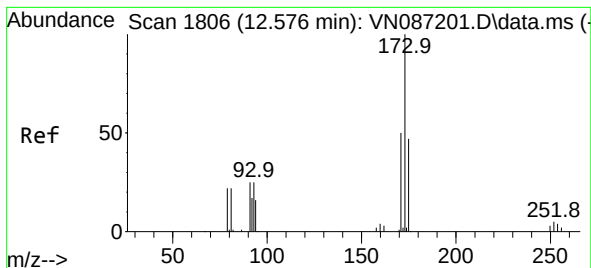
Tgt Ion: 95 Resp: 143998
Ion Ratio Lower Upper
95 100
174 70.2 0.0 142.2
176 66.2 0.0 134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion: 117 Resp: 291791
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 32.1 25.9 38.9





#71

Bromoform

Concen: 0.441 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

WC-1

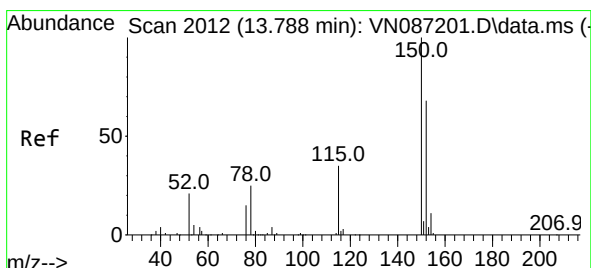
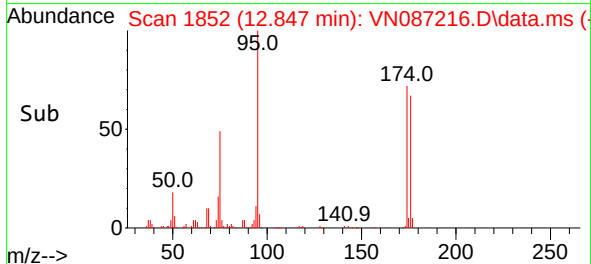
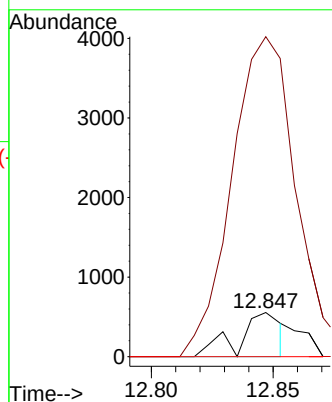
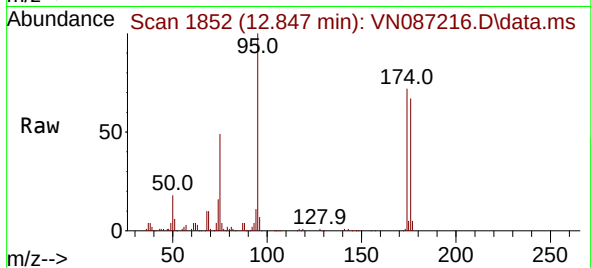
Tgt Ion:173 Resp: 677

Ion Ratio Lower Upper

173 100

175 867.7 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# 1212

Delta R.T. 0.000 min

Lab File: VN087216.D

Acq: 27 Jun 2025 13:10

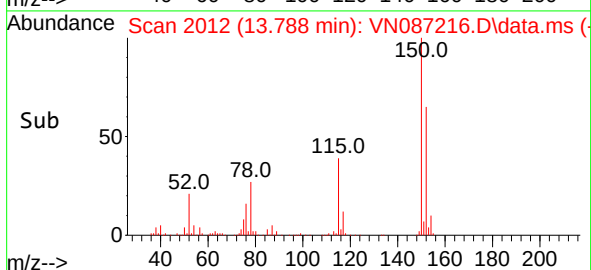
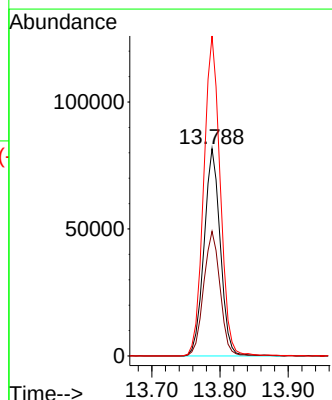
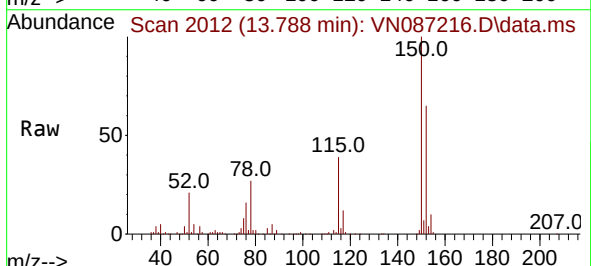
Tgt Ion:152 Resp: 134948

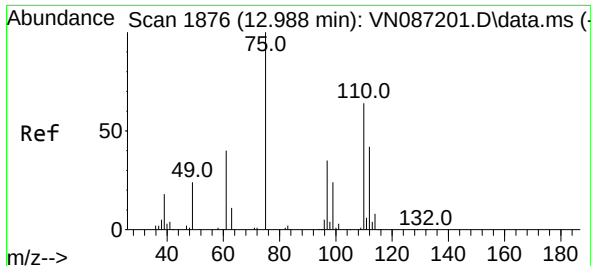
Ion Ratio Lower Upper

152 100

115 60.8 30.6 91.8

150 156.7 0.0 347.8

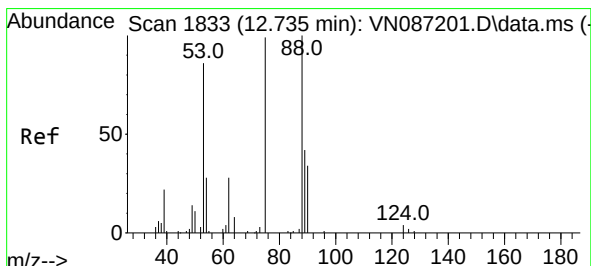
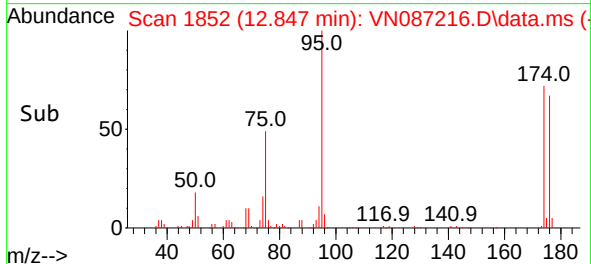
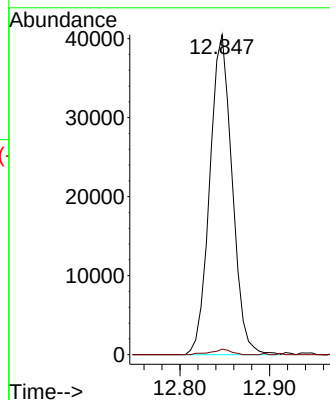
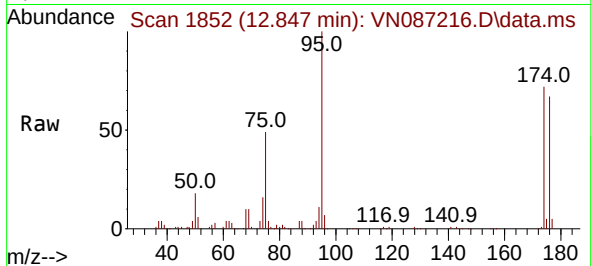




#76
1,2,3-Trichloropropane
Concen: 23.326 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Instrument :
MSVOA_N
ClientSampleId :
WC-1

Tgt Ion: 75 Resp: 70232
Ion Ratio Lower Upper
75 100
77 1.5 85.5 256.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 52.353 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087216.D
Acq: 27 Jun 2025 13:10

Tgt Ion: 75 Resp: 70232
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.0#
89 0.1 37.9 56.9#

