

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
 Data File : VN086904.D
 Acq On : 09 Jun 2025 14:47
 Operator : JC\MD
 Sample : Q2242-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 10 03:33:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

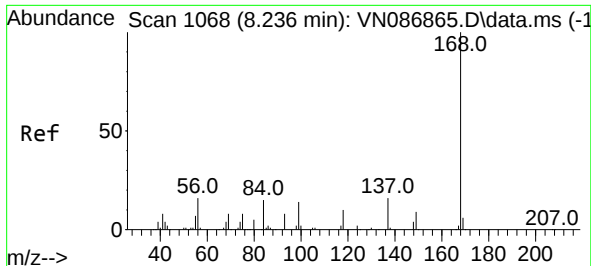
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	407701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	723392	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	628230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	306184	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	232100	42.520	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	85.040%	
35) Dibromofluoromethane	8.177	113	204473	47.696	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	95.400%	
50) Toluene-d8	10.571	98	859043	50.618	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	101.240%	
62) 4-Bromofluorobenzene	12.847	95	306374	48.590	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.180%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.983	74	86333	28.008	ug/l	90
16) Acetone	4.447	43	30714	10.610	ug/l	99
18) Methyl Acetate	5.047	43	31143	3.692	ug/l	97
20) Methylene Chloride	5.294	84	7099	1.310	ug/l #	87
25) 2-Butanone	7.500	43	6701	1.424	ug/l	99
29) Tetrahydrofuran	7.859	42	990	0.323	ug/l #	54
31) Cyclohexane	8.235	56	6670	0.753	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	29426	4.606	ug/l #	48
37) Ethyl Acetate	7.571	43	22610	2.780	ug/l	96
38) Carbon Tetrachloride	8.230	117	39145	6.242	ug/l #	17
43) Isopropyl Acetate	8.700	43	13838	1.060	ug/l #	94
45) 1,2-Dichloropropane	9.747	63	1780	0.350	ug/l #	43
48) Methyl methacrylate	9.741	41	102008	16.981	ug/l #	34
51) 4-Methyl-2-Pentanone	10.482	43	5461	0.695	ug/l #	33
54) cis-1,3-Dichloropropene	10.365	75	75555	9.093	ug/l #	53
57) 1,3-Dichloropropane	11.212	76	5074	0.595	ug/l #	43
59) 2-Hexanone	11.212	43	63179	12.483	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	140600	19.318	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	140600	44.470	ug/l #	16
95) Naphthalene	15.641	128	81501	3.546	ug/l	99

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

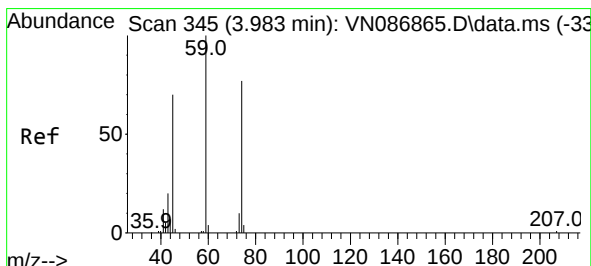
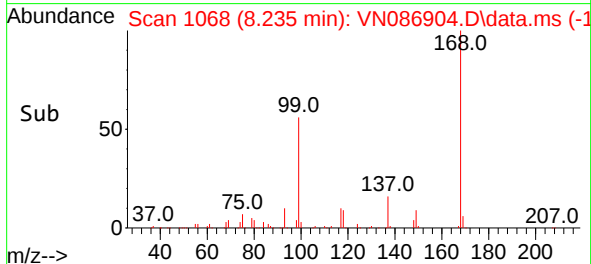
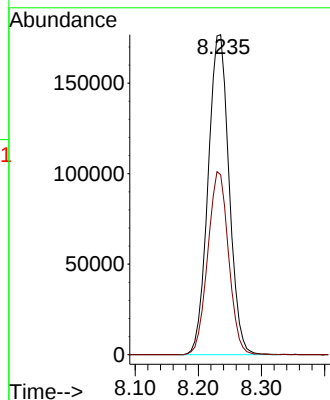
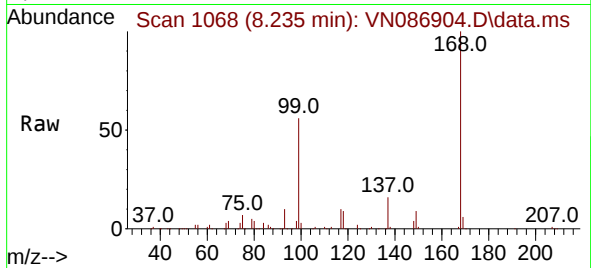




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

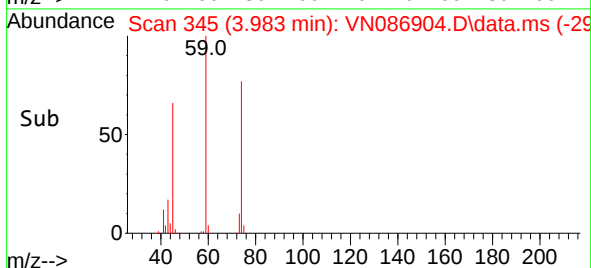
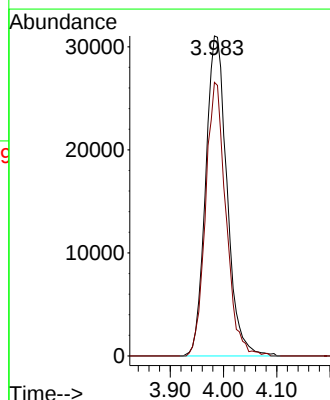
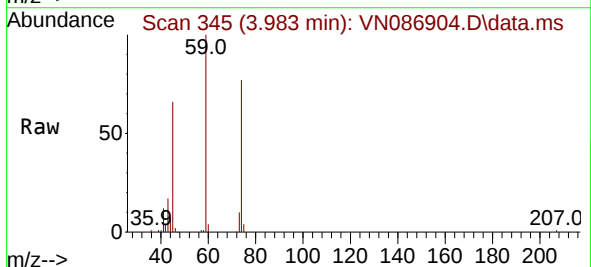
Instrument :
MSVOA_N
ClientSampleId :

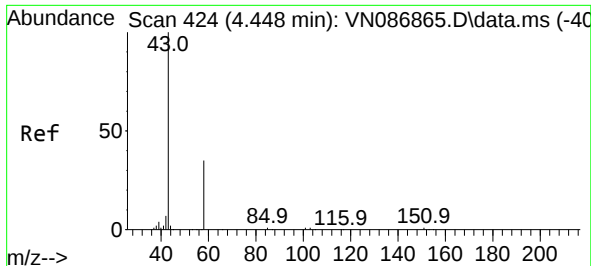
Tgt Ion:168 Resp: 407701
Ion Ratio Lower Upper
168 100
99 56.3 49.1 73.7



#8
Diethyl Ether
Concen: 28.008 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 74 Resp: 86333
Ion Ratio Lower Upper
74 100
45 81.9 45.5 136.5

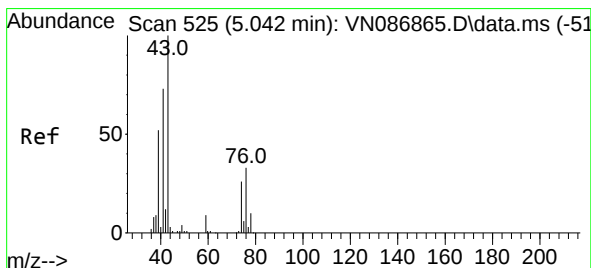
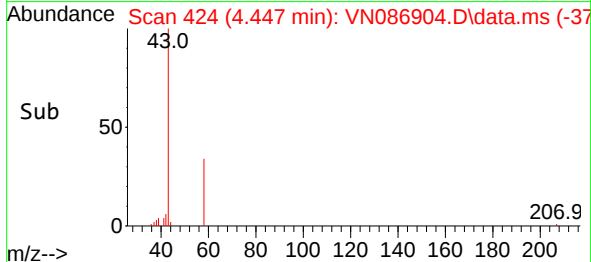
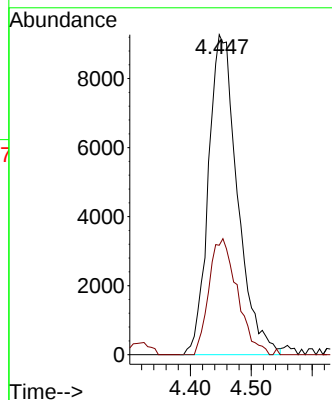
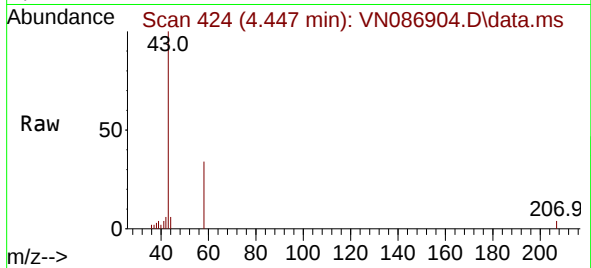




#16
Acetone
Concen: 10.610 ug/l
RT: 4.447 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

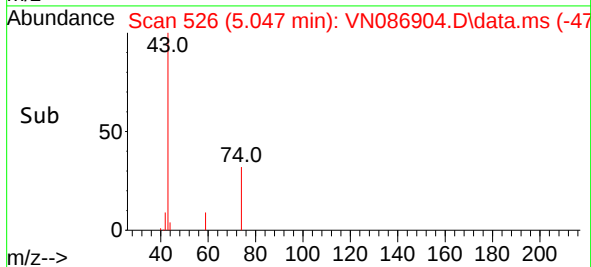
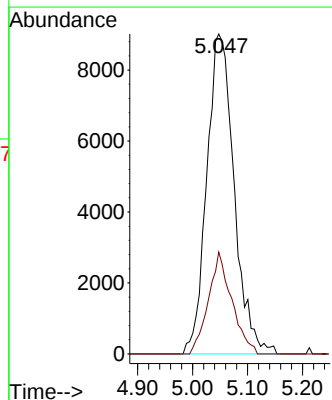
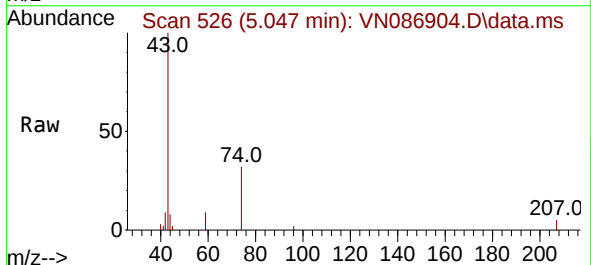
Instrument :
MSVOA_N
ClientSampleId :

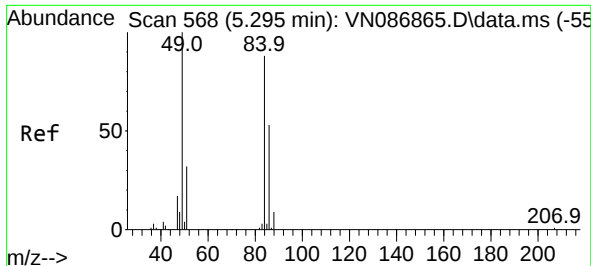
Tgt Ion: 43 Resp: 30714
Ion Ratio Lower Upper
43 100
58 34.2 28.0 42.0



#18
Methyl Acetate
Concen: 3.692 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

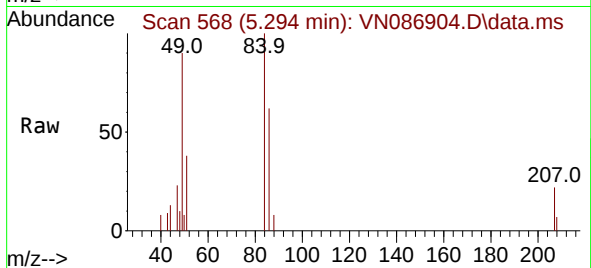
Tgt Ion: 43 Resp: 31143
Ion Ratio Lower Upper
43 100
74 27.2 20.7 31.1



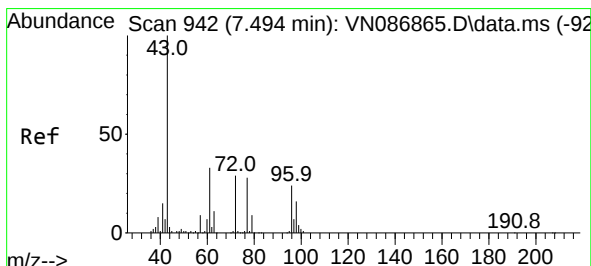
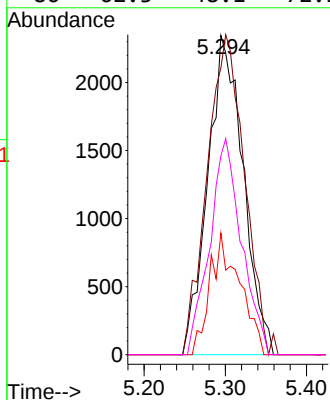
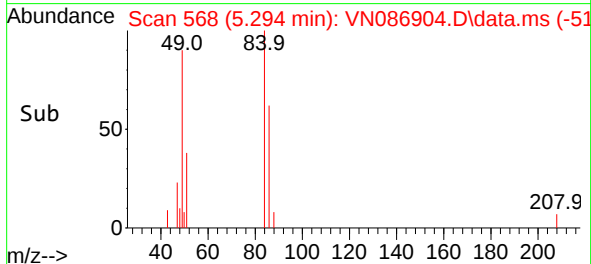


#20
Methylene Chloride
Concen: 1.310 ug/l
RT: 5.294 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

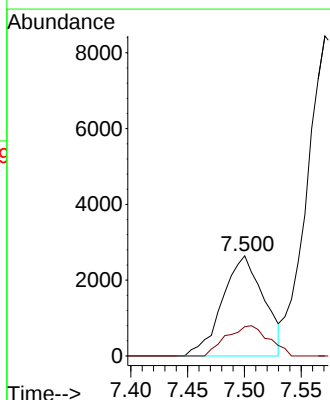
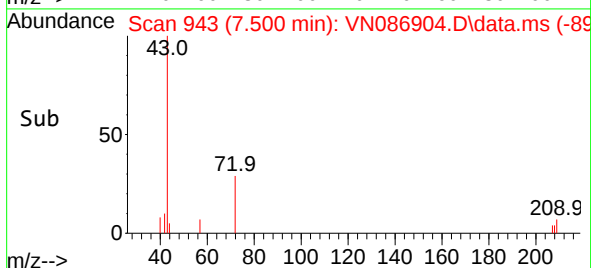
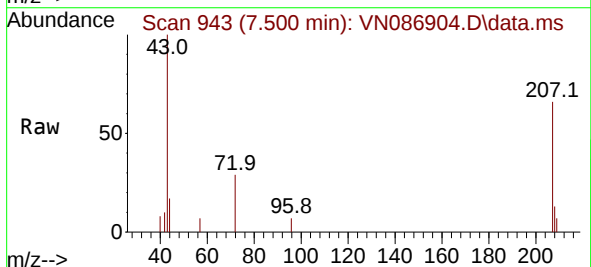


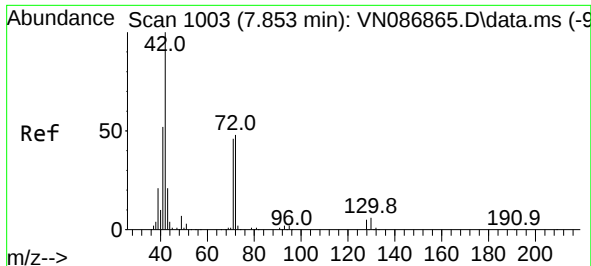
Tgt Ion: 84 Resp: 7099
Ion Ratio Lower Upper
84 100
49 89.9 90.5 135.7#
51 38.1 28.5 42.7
86 62.3 48.1 72.1



#25
2-Butanone
Concen: 1.424 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 43 Resp: 6701
Ion Ratio Lower Upper
43 100
72 29.2 23.0 34.6

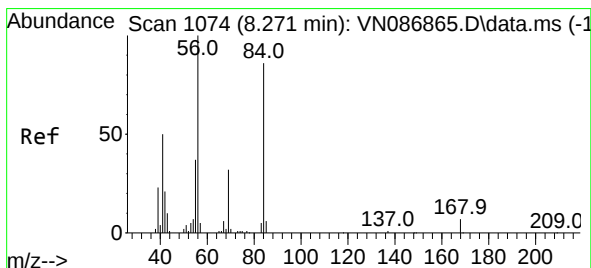
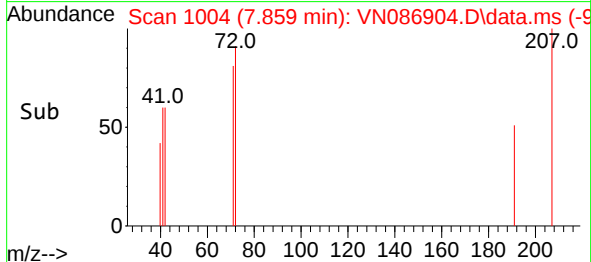
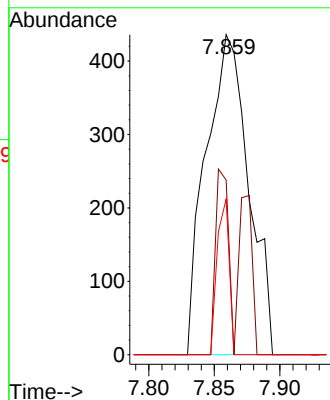
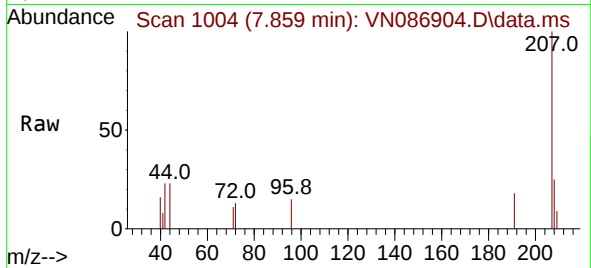




#29
Tetrahydrofuran
Concen: 0.323 ug/l
RT: 7.859 min Scan# 1068
Delta R.T. 0.006 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

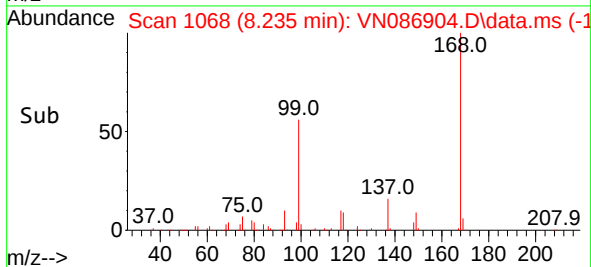
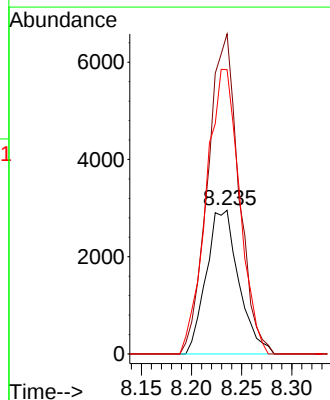
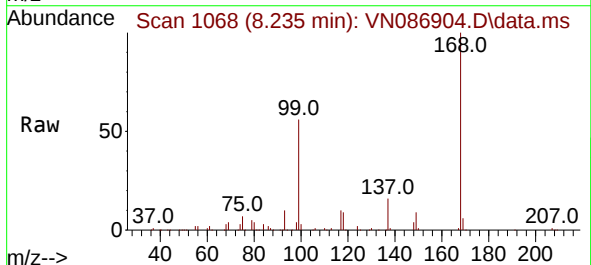
Instrument :
MSVOA_N
ClientSampleId :

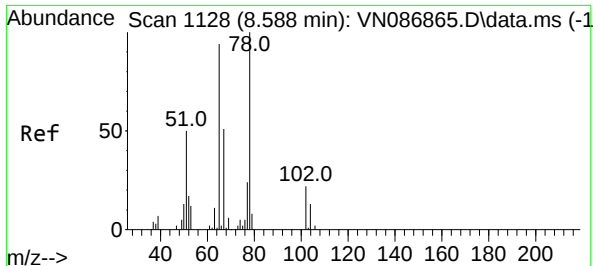
Tgt Ion: 42 Resp: 990
Ion Ratio Lower Upper
42 100
72 17.5 37.8 56.6#
71 13.5 35.6 53.4#



#31
Cyclohexane
Concen: 0.753 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 56 Resp: 6670
Ion Ratio Lower Upper
56 100
69 222.6 25.4 38.0#
84 197.9 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 42.520 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086904.D

Acq: 09 Jun 2025 14:47

Instrument :

MSVOA_N

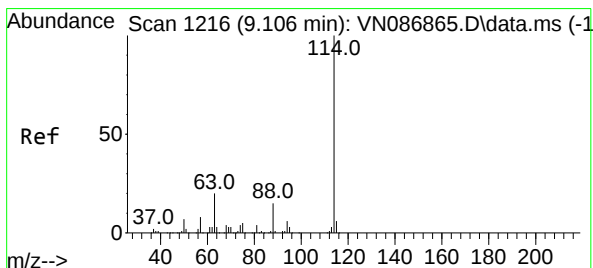
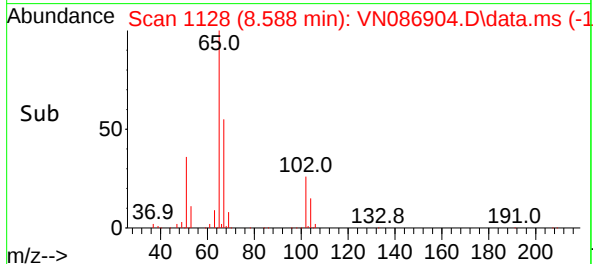
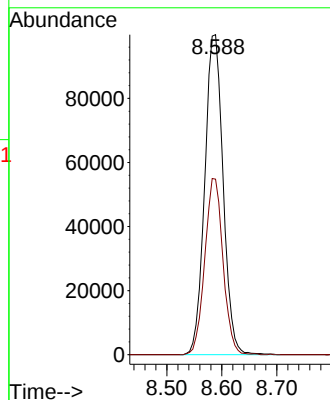
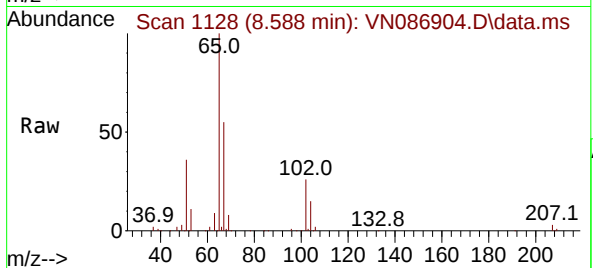
ClientSampleId :

Tgt Ion: 65 Resp: 232100

Ion Ratio Lower Upper

65 100

67 54.5 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086904.D

Acq: 09 Jun 2025 14:47

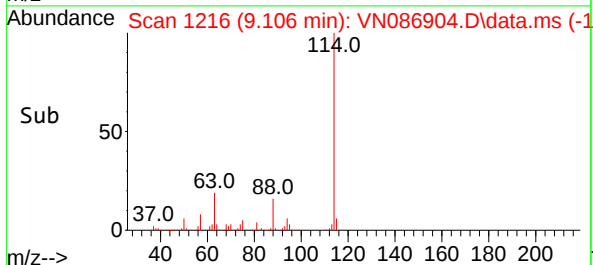
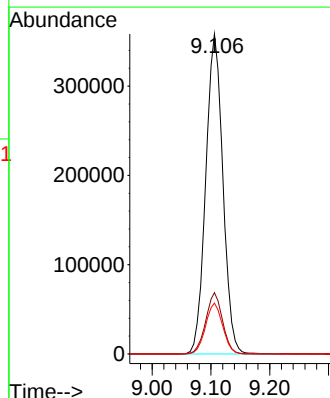
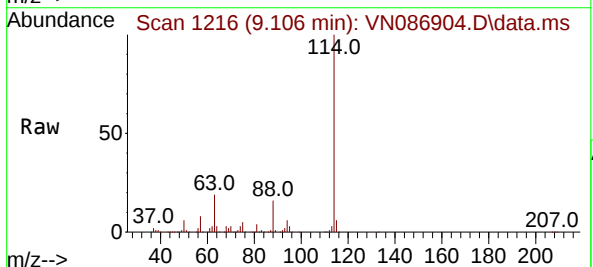
Tgt Ion: 114 Resp: 723392

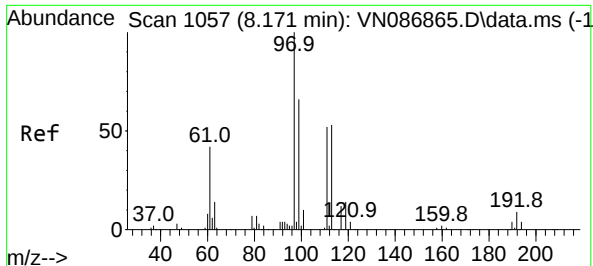
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.696 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086904.D

Acq: 09 Jun 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

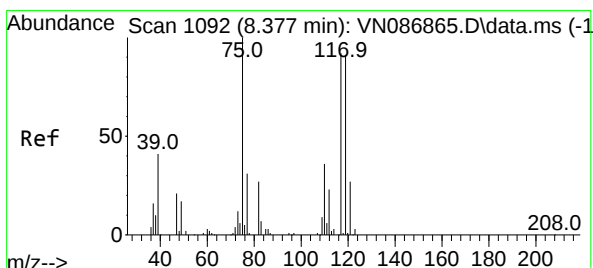
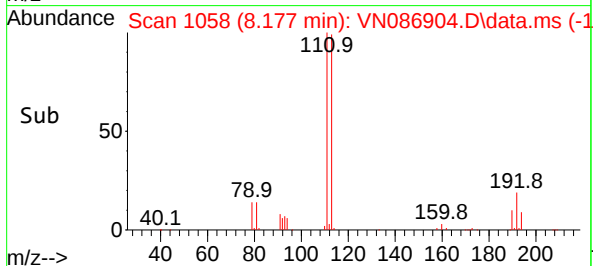
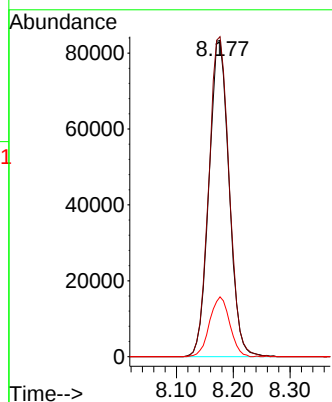
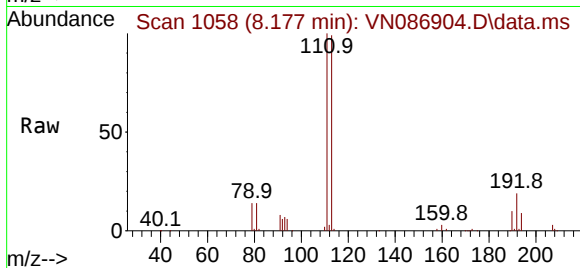
Tgt Ion:113 Resp: 204473

Ion Ratio Lower Upper

113 100

111 102.6 84.2 126.2

192 19.0 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.606 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN086904.D

Acq: 09 Jun 2025 14:47

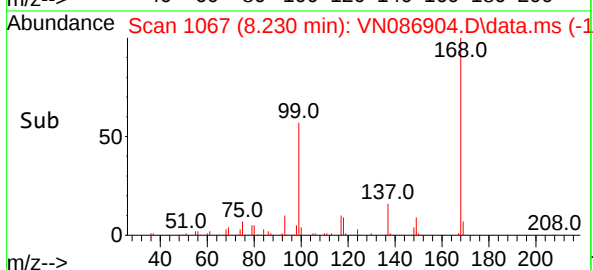
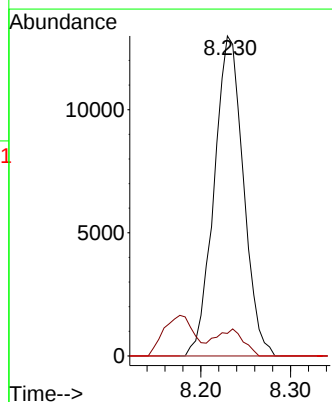
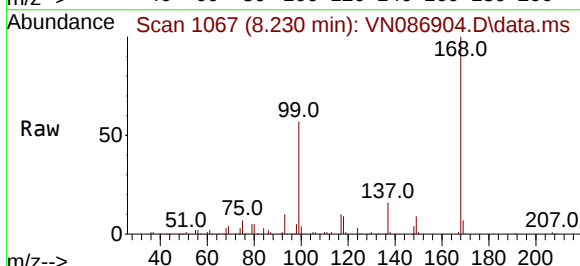
Tgt Ion: 75 Resp: 29426

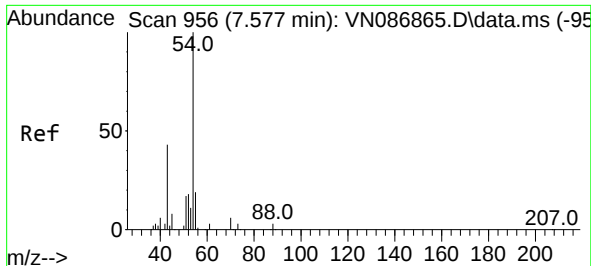
Ion Ratio Lower Upper

75 100

110 7.9 17.6 52.9#

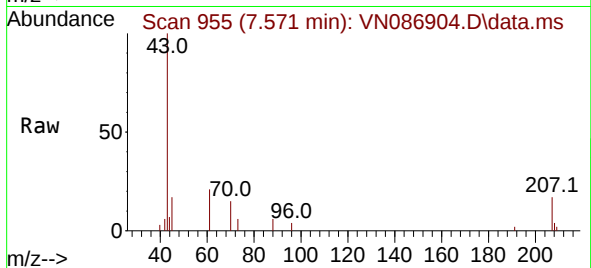
77 0.0 25.3 37.9#



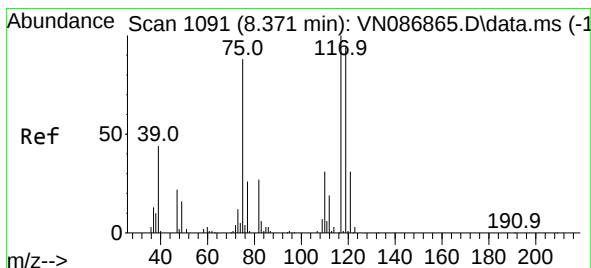
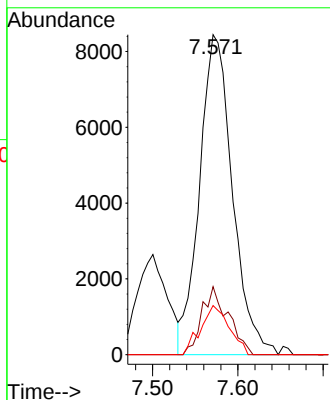
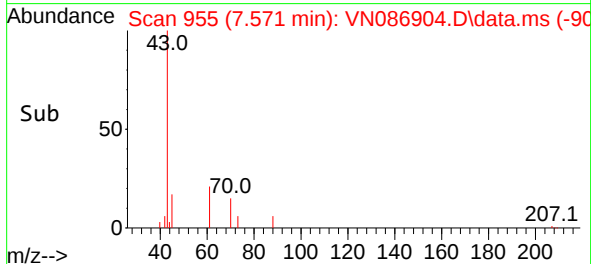


#37
Ethyl Acetate
Concen: 2.780 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

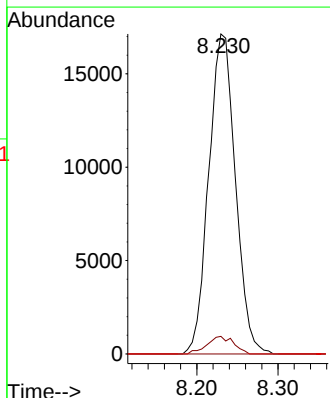
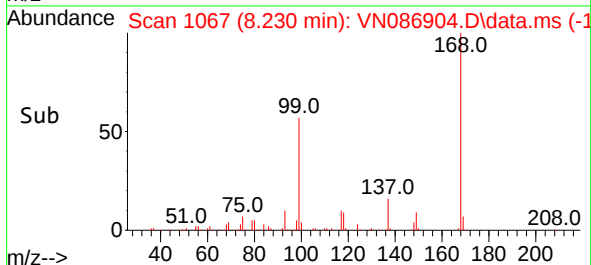
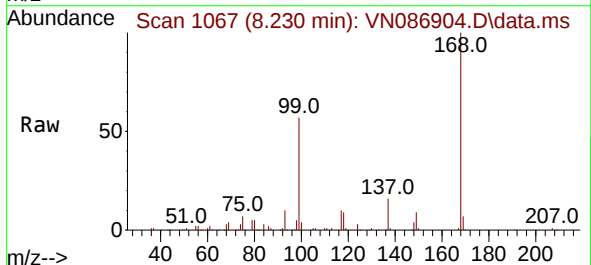


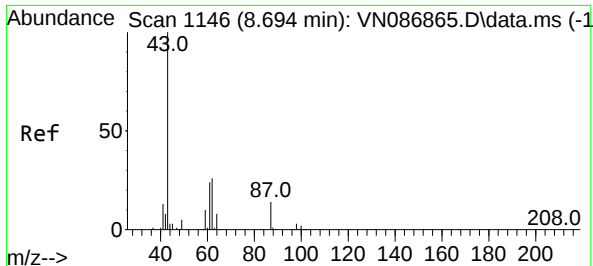
Tgt Ion: 43 Resp: 22610
Ion Ratio Lower Upper
43 100
61 17.1 12.1 18.1
70 13.4 9.8 14.6



#38
Carbon Tetrachloride
Concen: 6.242 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

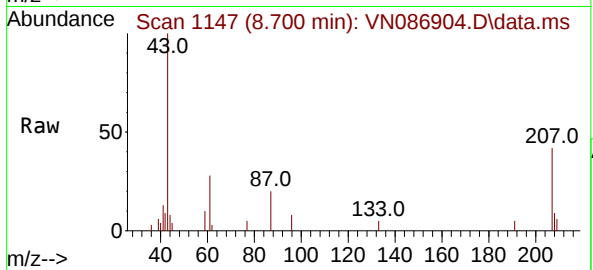
Tgt Ion: 117 Resp: 39145
Ion Ratio Lower Upper
117 100
119 5.5 75.0 112.6#
121 0.0 24.9 37.3#



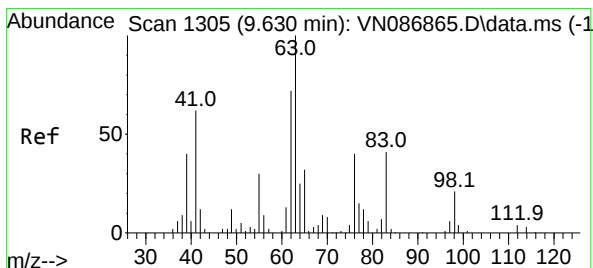
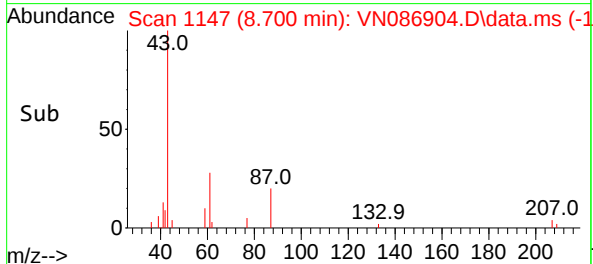
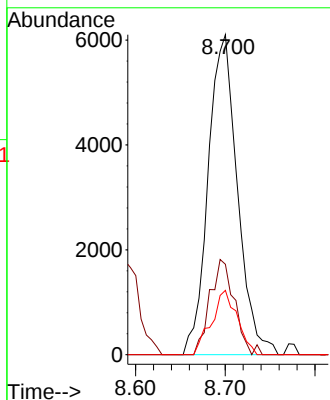


#43
Isopropyl Acetate
Concen: 1.060 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

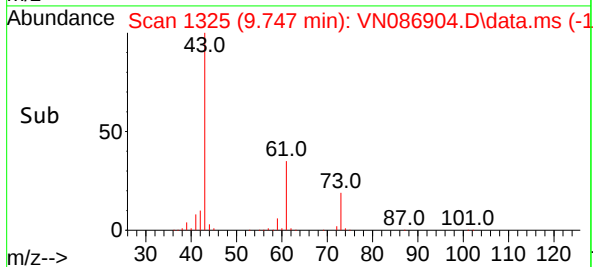
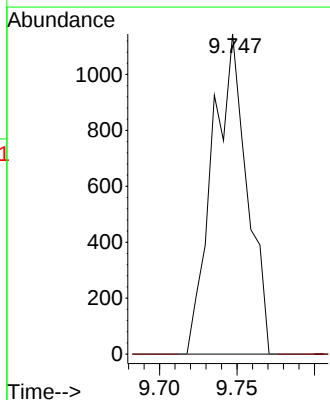
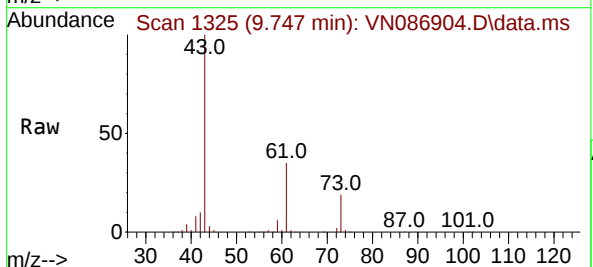


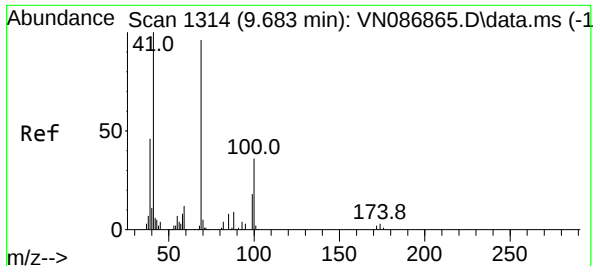
Tgt Ion	Ratio	Lower	Upper
43	100		
61	24.9	22.1	33.1
87	17.7	11.8	17.6#



#45
1,2-Dichloropropane
Concen: 0.350 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.5	38.3#

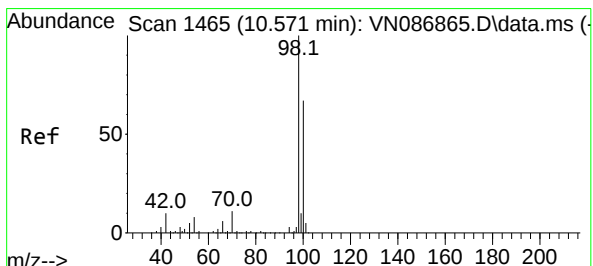
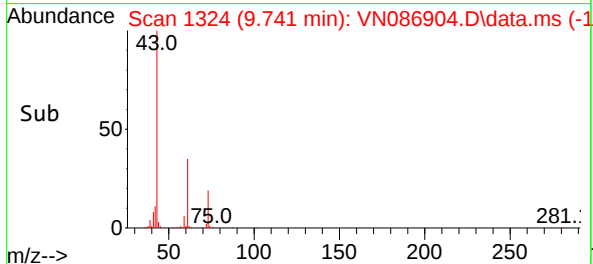
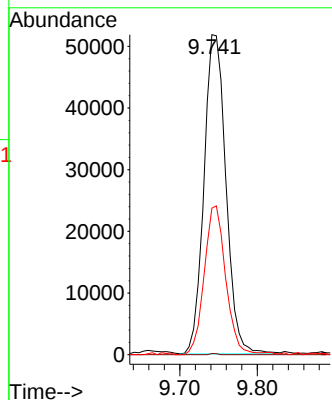
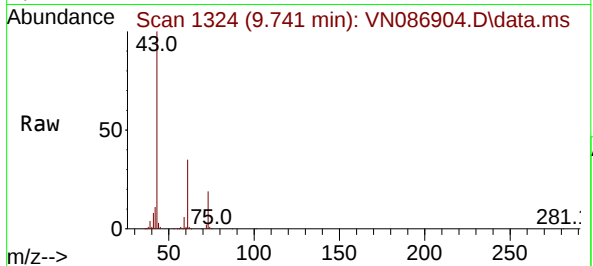




#48
Methyl methacrylate
Concen: 16.981 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

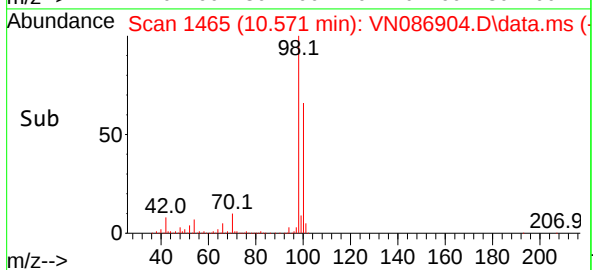
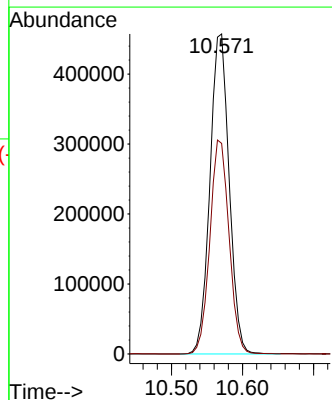
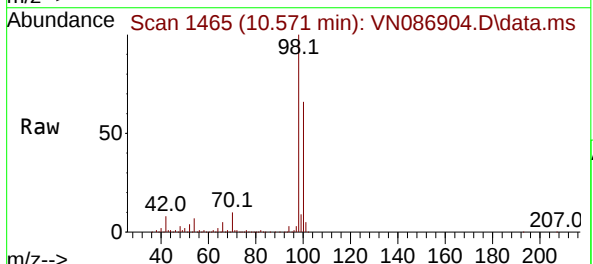
Instrument :
MSVOA_N
ClientSampleId :

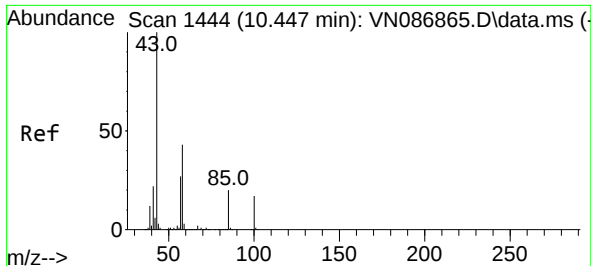
Tgt Ion: 41 Resp: 102008
Ion Ratio Lower Upper
41 100
69 0.1 74.6 112.0#
39 45.3 40.2 60.4



#50
Toluene-d8
Concen: 50.618 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 98 Resp: 859043
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.0

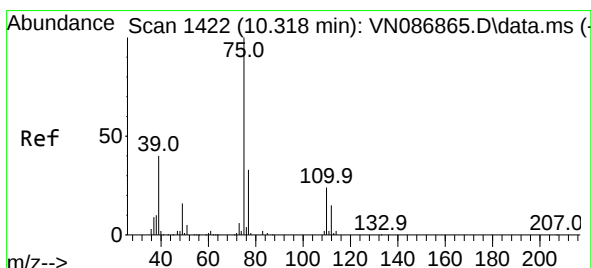
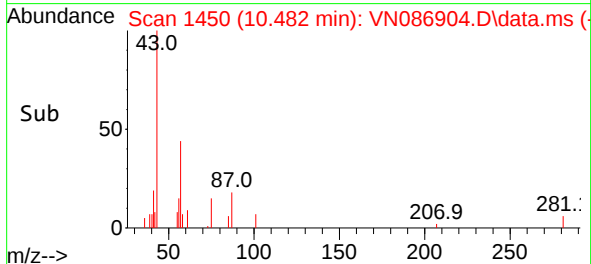
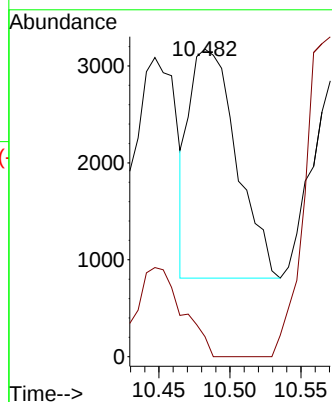
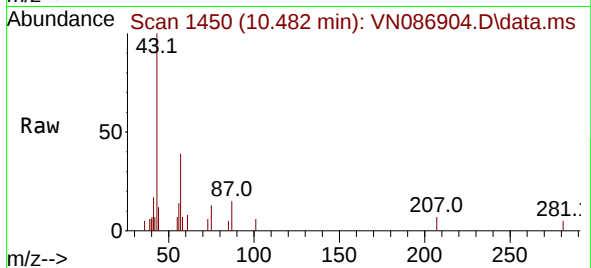




#51
4-Methyl-2-Pentanone
Concen: 0.695 ug/l
RT: 10.482 min Scan# 1444
Delta R.T. 0.035 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

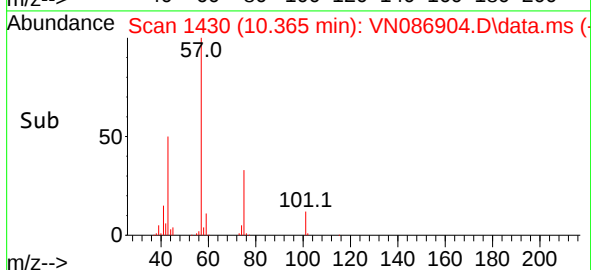
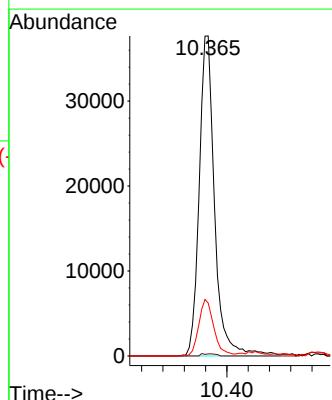
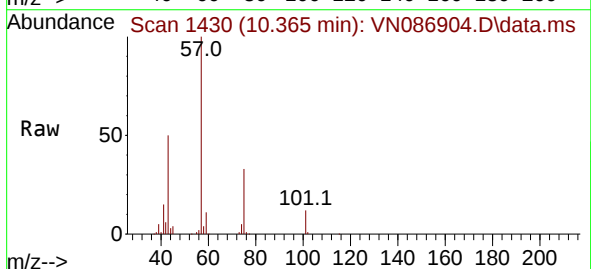
Instrument :
MSVOA_N
ClientSampleId :

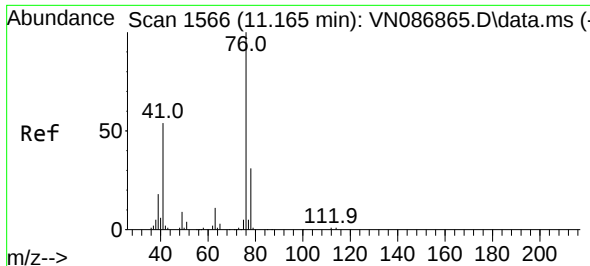
Tgt Ion: 43 Resp: 5461
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 9.093 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 75 Resp: 75555
Ion Ratio Lower Upper
75 100
77 0.6 26.2 39.4#
39 16.6 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.595 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN086904.D

Acq: 09 Jun 2025 14:47

Instrument :

MSVOA_N

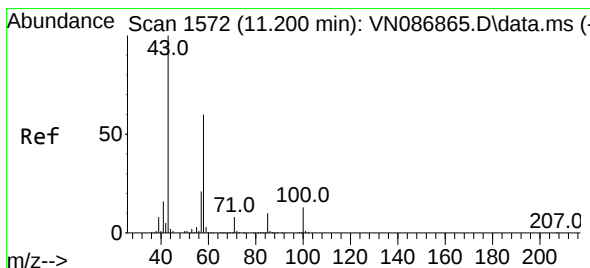
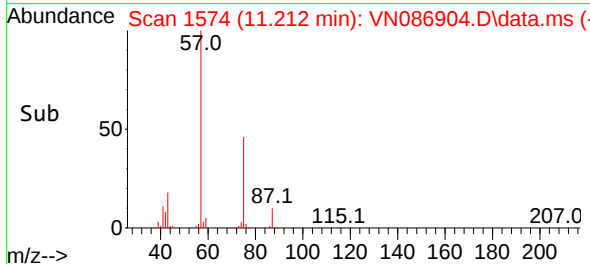
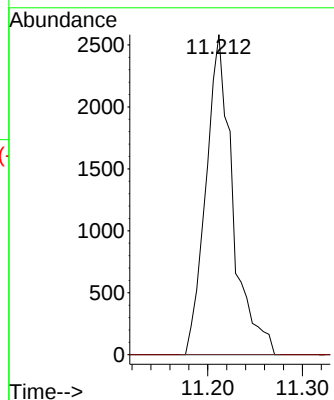
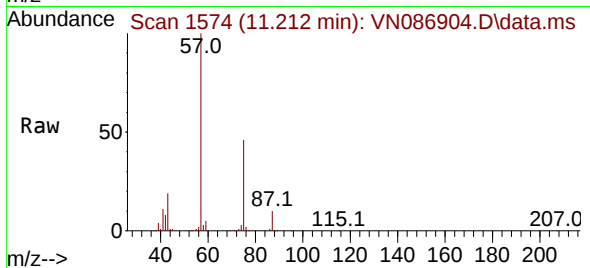
ClientSampleId :

Tgt Ion: 76 Resp: 5074

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 12.483 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN086904.D

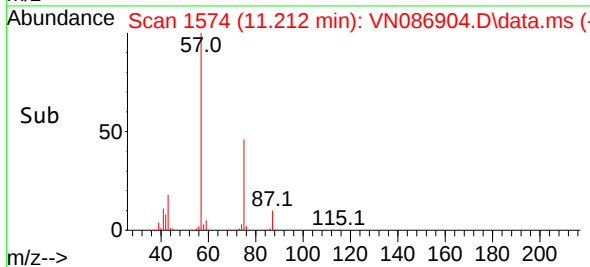
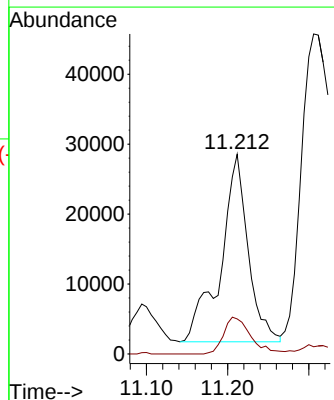
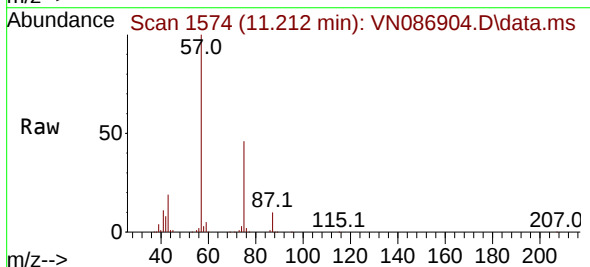
Acq: 09 Jun 2025 14:47

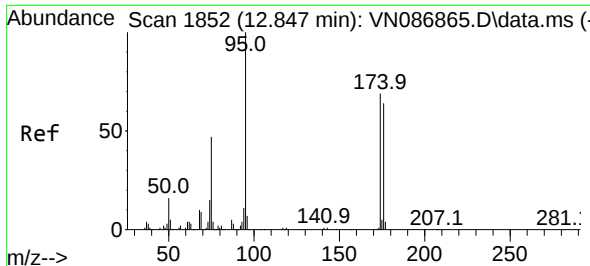
Tgt Ion: 43 Resp: 63179

Ion Ratio Lower Upper

43 100

58 19.4 30.4 91.3#

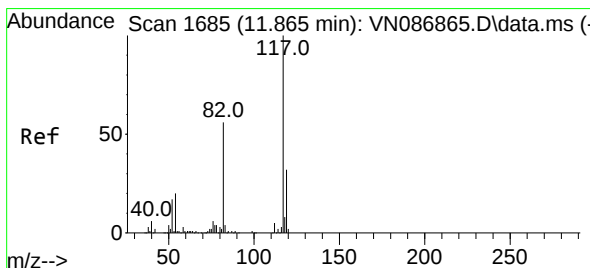
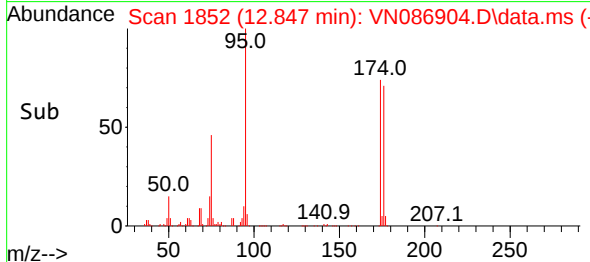
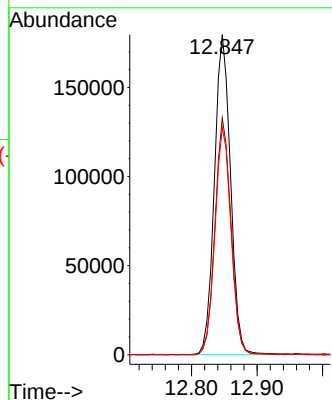
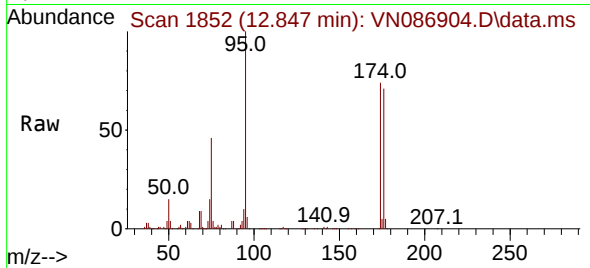




#62
4-Bromofluorobenzene
Concen: 48.590 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

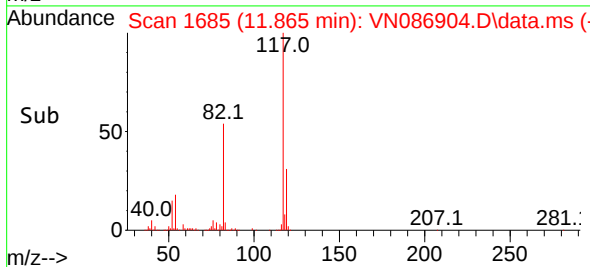
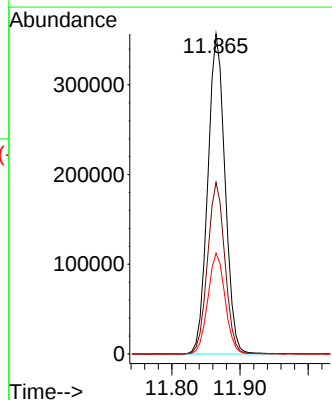
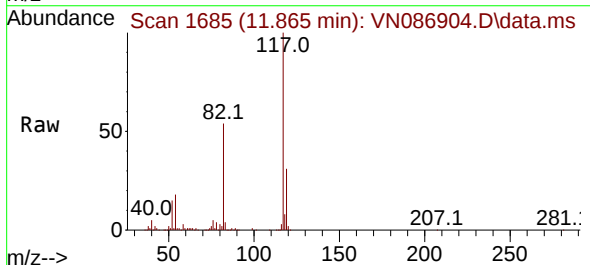
Instrument :
MSVOA_N
ClientSampleId :

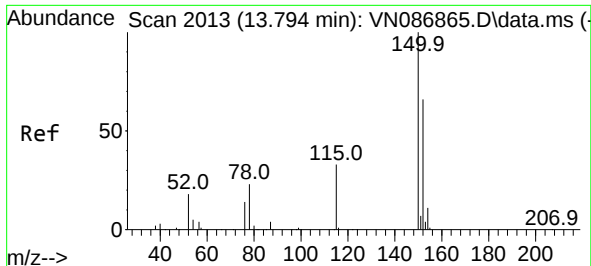
Tgt Ion: 95 Resp: 306374
Ion Ratio Lower Upper
95 100
174 73.3 0.0 141.8
176 70.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

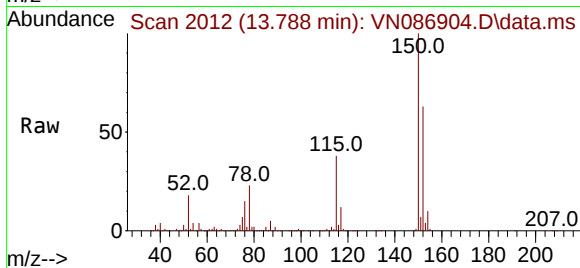
Tgt Ion: 117 Resp: 628230
Ion Ratio Lower Upper
117 100
82 53.6 44.6 67.0
119 31.5 25.5 38.3



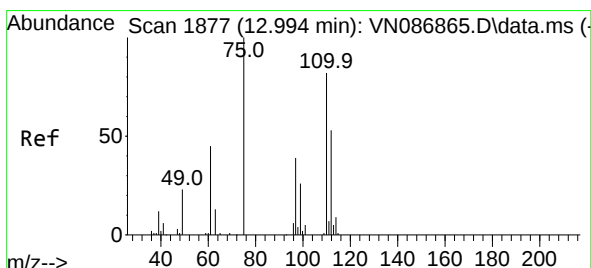
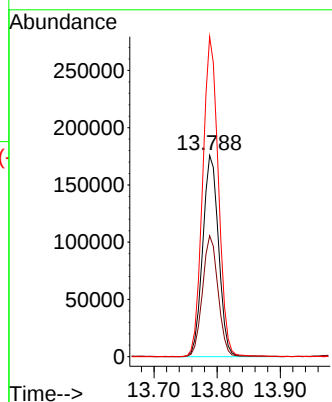
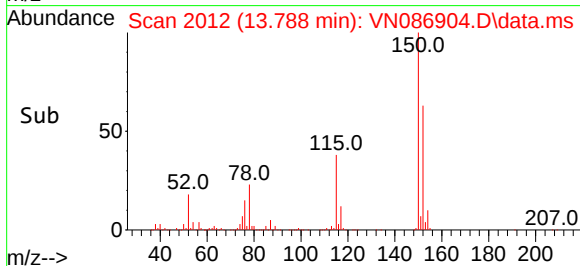


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN086904.D
 Acq: 09 Jun 2025 14:47

Instrument :
 MSVOA_N
 ClientSampleId :

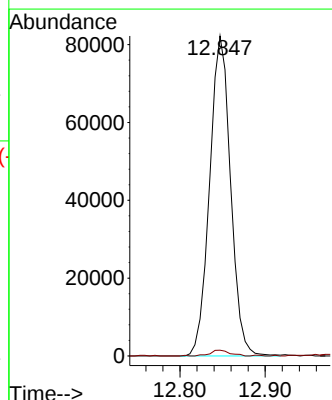
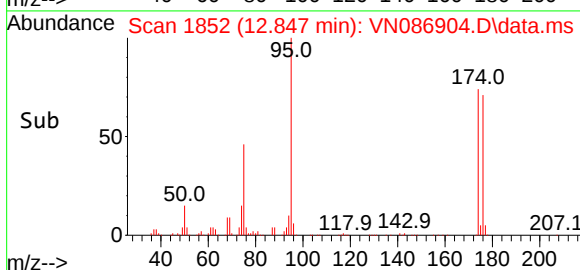
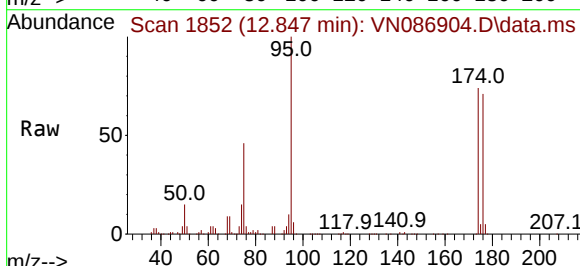


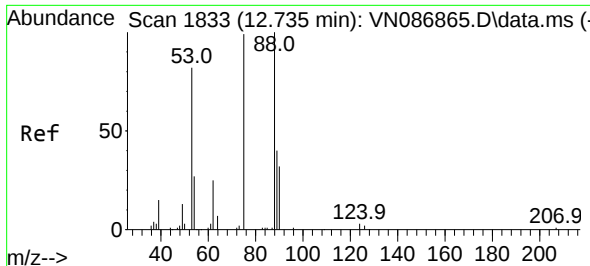
Tgt Ion:152 Resp: 306184
 Ion Ratio Lower Upper
 152 100
 115 59.0 30.1 90.5
 150 157.4 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.318 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086904.D
 Acq: 09 Jun 2025 14:47

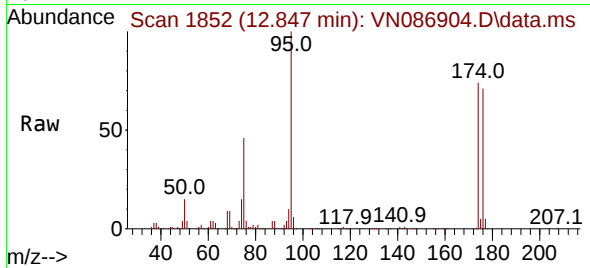
Tgt Ion: 75 Resp: 140600
 Ion Ratio Lower Upper
 75 100
 77 1.7 79.3 237.9#



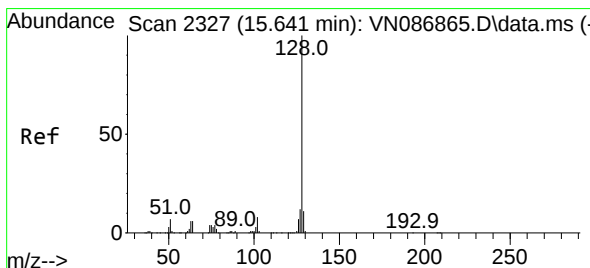
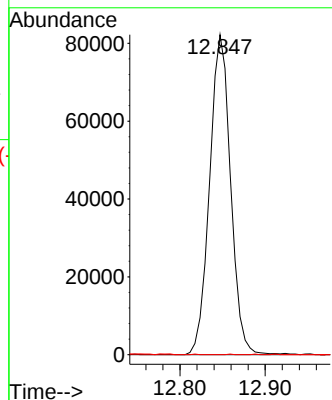
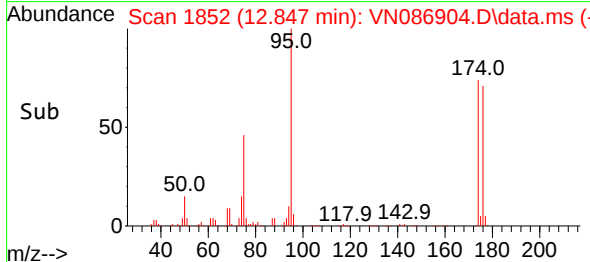


#81
trans-1,4-Dichloro-2-butene
Concen: 44.470 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 140600
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#95
Naphthalene
Concen: 3.546 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086904.D
Acq: 09 Jun 2025 14:47

Tgt Ion: 128 Resp: 81501
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.2
129 11.3 8.8 13.2

