

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031425\
 Data File : VN085989.D
 Acq On : 14 Mar 2025 15:09
 Operator : JC\MD
 Sample : Q1576-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW14

Quant Time: Mar 15 00:02:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	145270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	95951	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	100583	53.406	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.820%	
35) Dibromofluoromethane	8.165	113	83950	49.101	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.200%	
50) Toluene-d8	10.565	98	284851	45.791	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 91.580%	
62) 4-Bromofluorobenzene	12.847	95	96187	46.931	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 93.860%	

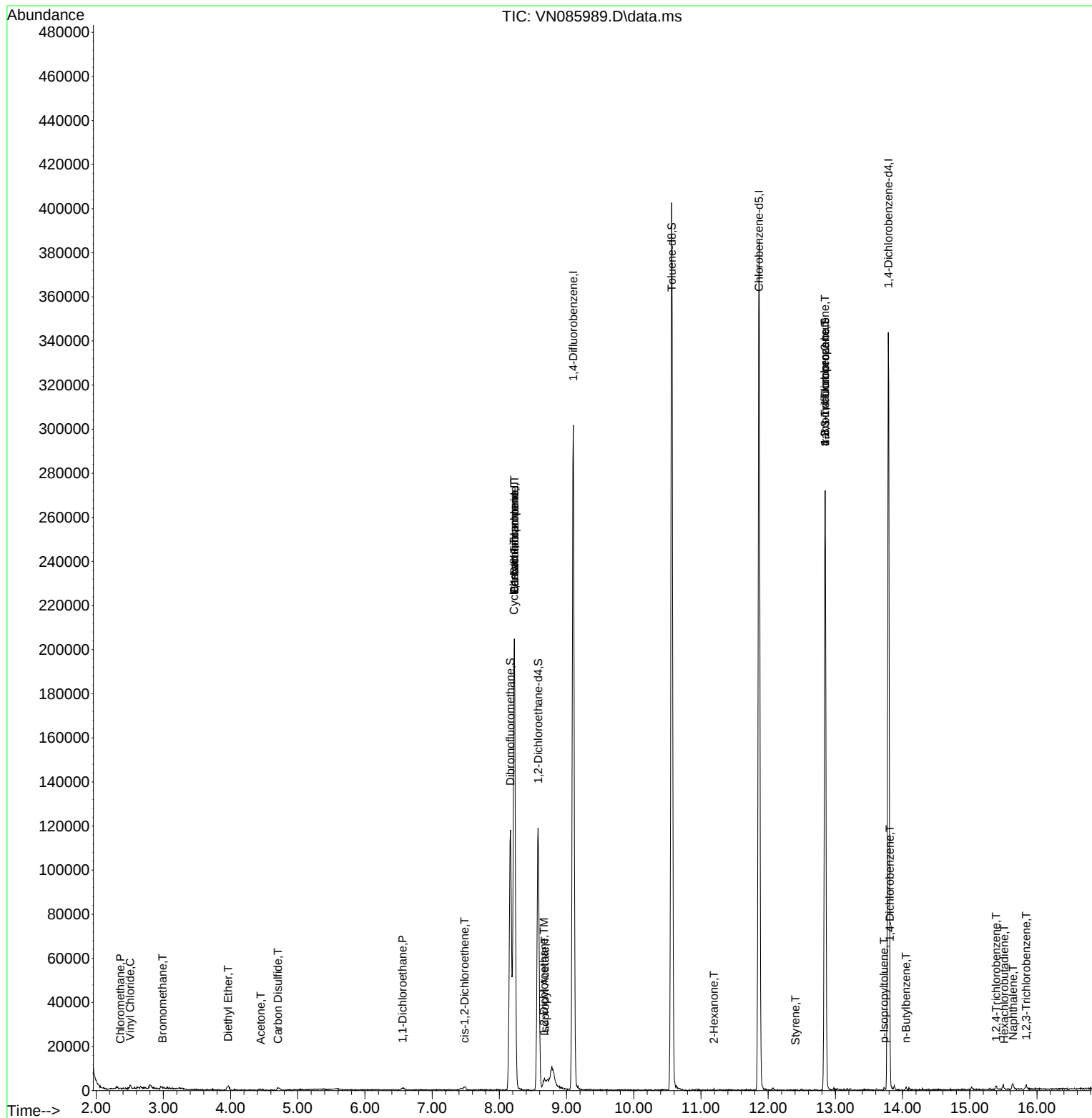
Target Compounds			Qvalue			
3) Chloromethane	2.359	50	415	0.209	ug/l #	41
4) Vinyl Chloride	2.506	62	844	0.402	ug/l #	33
5) Bromomethane	2.989	94	631	0.470	ug/l	82
8) Diethyl Ether	3.965	74	1413	1.437	ug/l #	47
16) Acetone	4.447	43	1046	1.755	ug/l #	40
17) Carbon Disulfide	4.706	76	1371	0.290	ug/l #	75
24) 1,1-Dichloroethane	6.559	63	1916	0.596	ug/l #	82
27) cis-1,2-Dichloroethene	7.482	96	1130	0.568	ug/l	56
31) Cyclohexane	8.218	56	2897	1.077	ug/l #	5
36) 1,1-Dichloropropene	8.224	75	11793	4.874	ug/l #	51
38) Carbon Tetrachloride	8.224	117	16515	5.744	ug/l #	19
42) 1,2-Dichloroethane	8.665	62	938	0.371	ug/l #	73
43) Isopropyl Acetate	8.677	43	2921	0.293	ug/l #	55
59) 2-Hexanone	11.194	43	397	0.301	ug/l	68
70) Styrene	12.406	104	123	0.609	ug/l #	26
76) 1,2,3-Trichloropropane	12.847	75	47370	22.225	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	47370	64.847	ug/l #	12
86) p-Isopropyltoluene	13.723	119	669	0.748	ug/l #	60
88) 1,4-Dichlorobenzene	13.811	146	746	0.219	ug/l #	53
89) n-Butylbenzene	14.053	91	1046	0.232	ug/l #	72
93) 1,2,4-Trichlorobenzene	15.394	180	663	0.435	ug/l	65
94) Hexachlorobutadiene	15.511	225	820	0.885	ug/l	72
95) Naphthalene	15.647	128	3661	0.875	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	1039	0.679	ug/l #	68

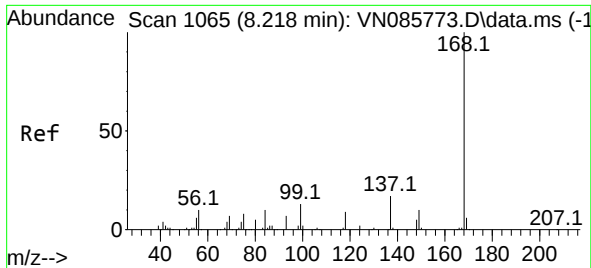
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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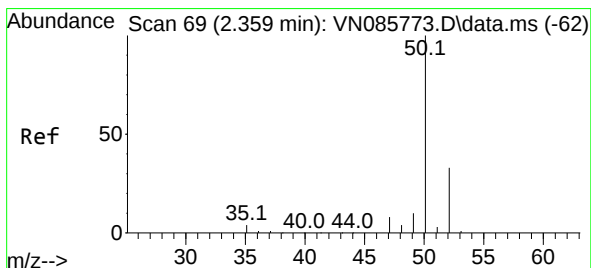
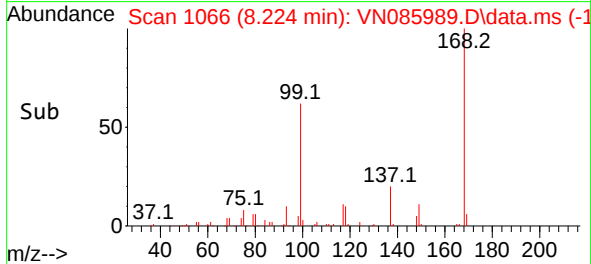
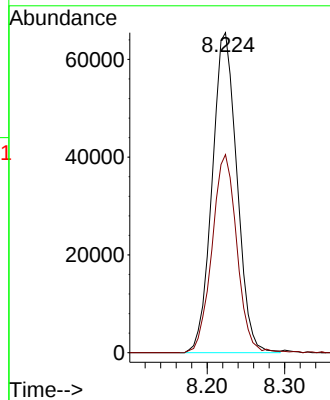
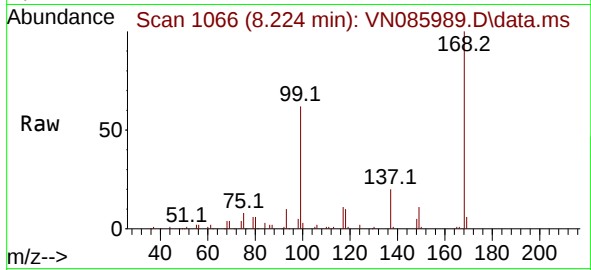




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

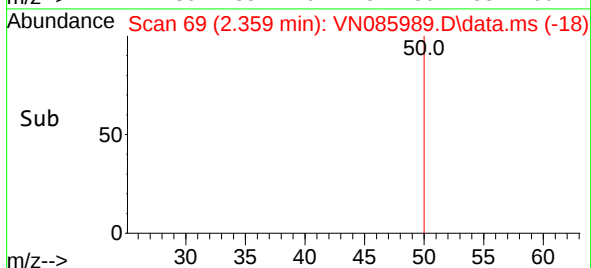
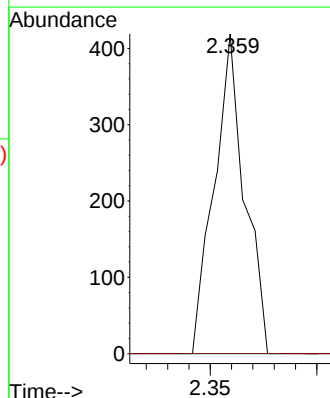
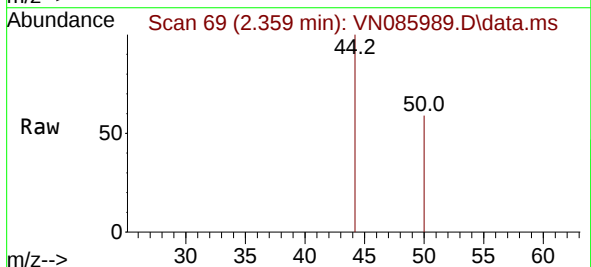
Instrument :
MSVOA_N
ClientSampleId :
MW14

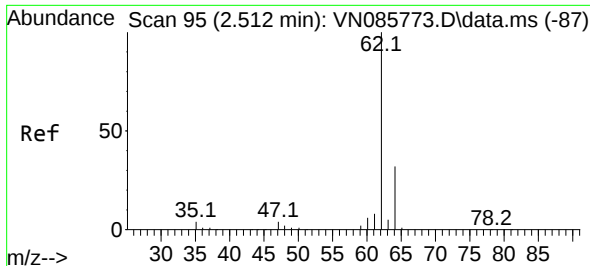
Tgt Ion:168 Resp: 145270
Ion Ratio Lower Upper
168 100
99 61.9 47.9 71.9



#3
Chloromethane
Concen: 0.209 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 50 Resp: 415
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#

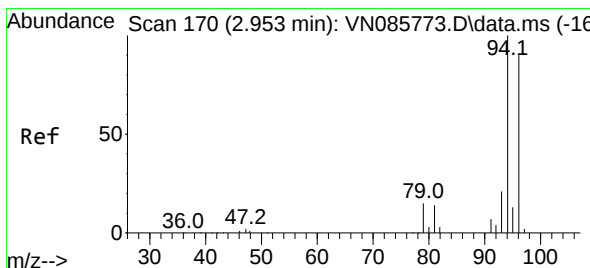
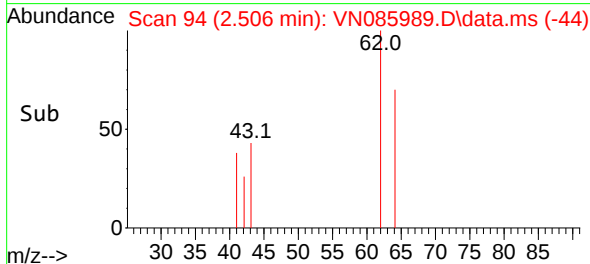
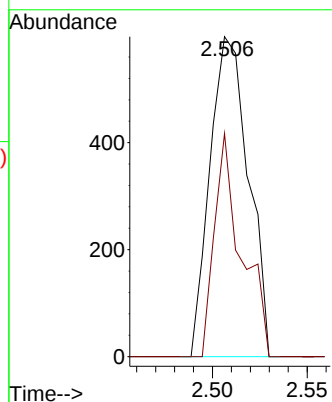
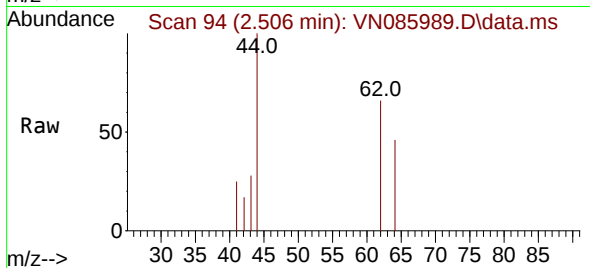




#4
 Vinyl Chloride
 Concen: 0.402 ug/l
 RT: 2.506 min Scan# 94
 Delta R.T. -0.006 min
 Lab File: VN085989.D
 Acq: 14 Mar 2025 15:09

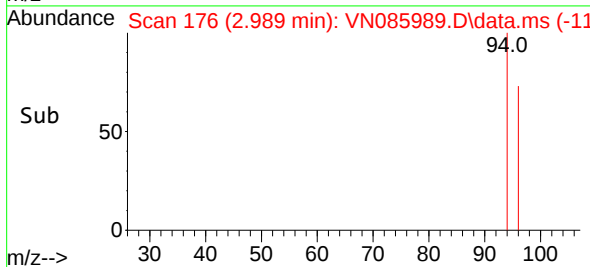
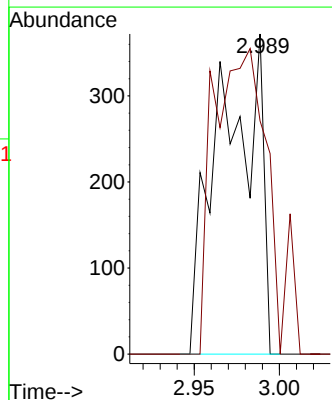
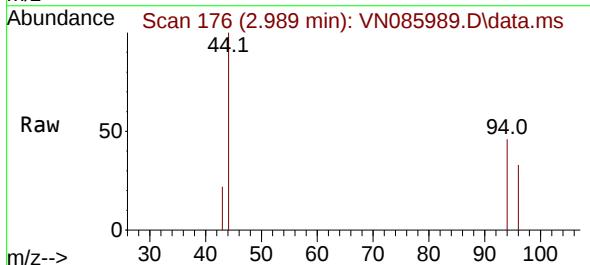
Instrument :
 MSVOA_N
 ClientSampleId :
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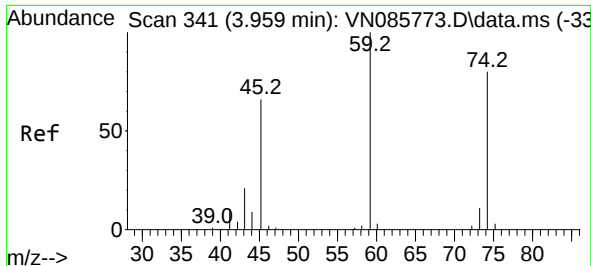
Tgt Ion: 62 Resp: 844
 Ion Ratio Lower Upper
 62 100
 64 69.7 25.9 38.9#



#5
 Bromomethane
 Concen: 0.470 ug/l
 RT: 2.989 min Scan# 176
 Delta R.T. 0.035 min
 Lab File: VN085989.D
 Acq: 14 Mar 2025 15:09

Tgt Ion: 94 Resp: 631
 Ion Ratio Lower Upper
 94 100
 96 72.8 71.7 107.5

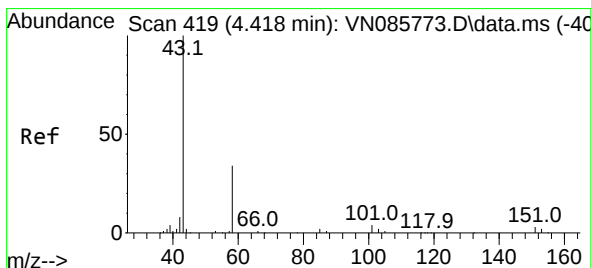
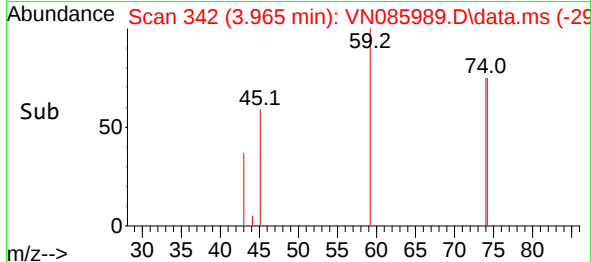
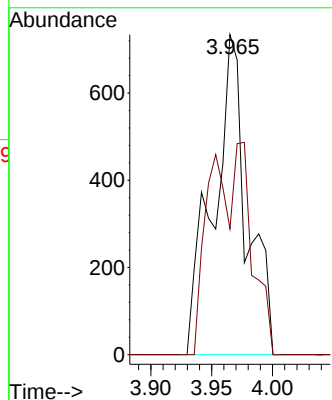
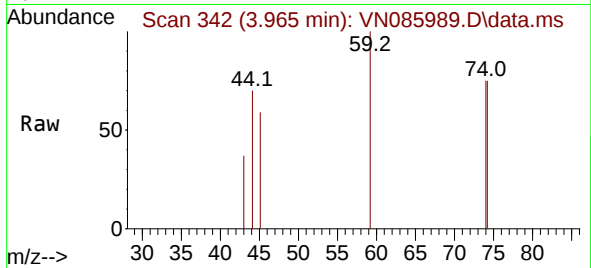




#8
Diethyl Ether
Concen: 1.437 ug/l
RT: 3.965 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

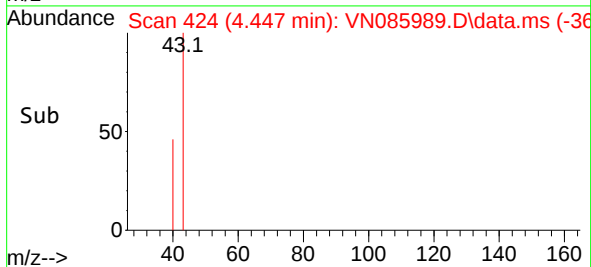
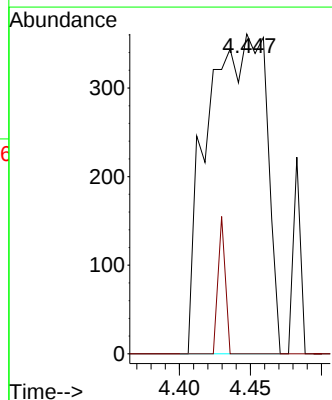
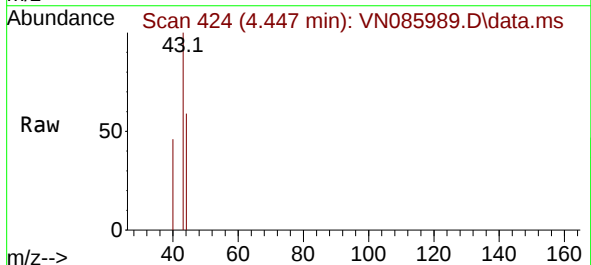
Instrument :
MSVOA_N
ClientSampleId :
MW14

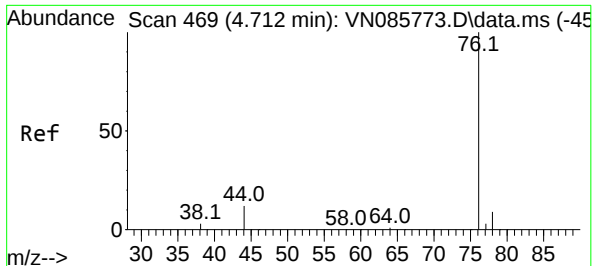
Tgt Ion: 74 Resp: 1413
Ion Ratio Lower Upper
74 100
45 37.0 42.5 127.6#



#16
Acetone
Concen: 1.755 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.029 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 43 Resp: 1046
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#

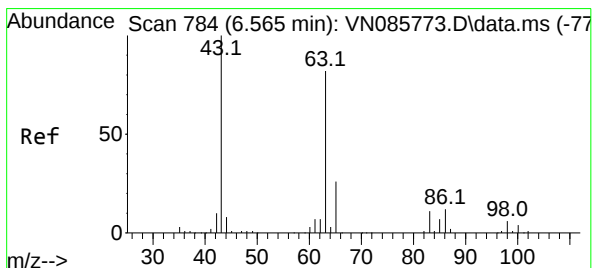
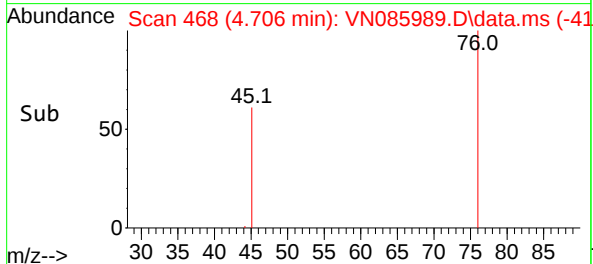
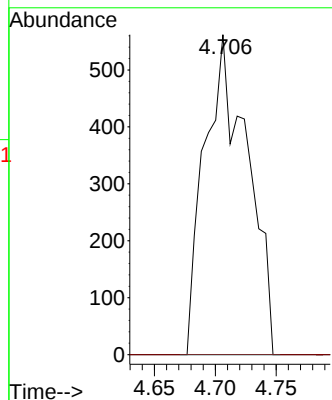
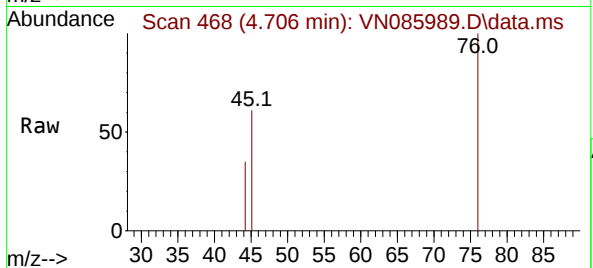




#17
Carbon Disulfide
Concen: 0.290 ug/l
RT: 4.706 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

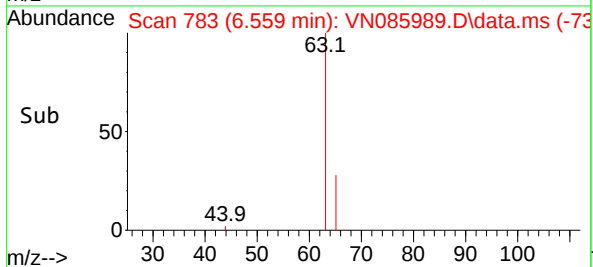
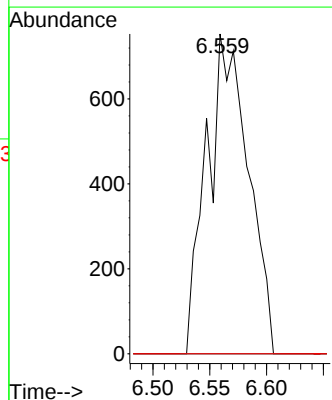
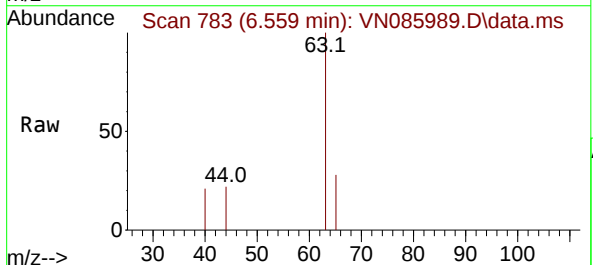
Instrument :
MSVOA_N
ClientSampleId :
MW14

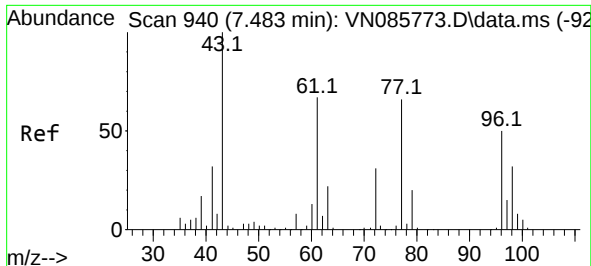
Tgt Ion: 76 Resp: 1371
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#24
1,1-Dichloroethane
Concen: 0.596 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 63 Resp: 1916
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 2.4 7.2#

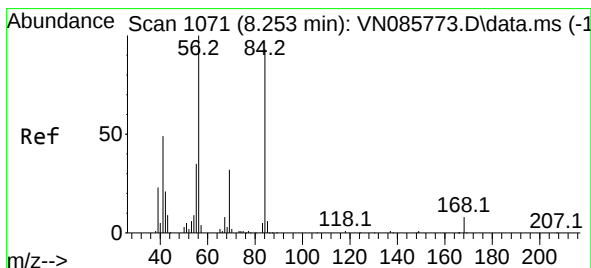
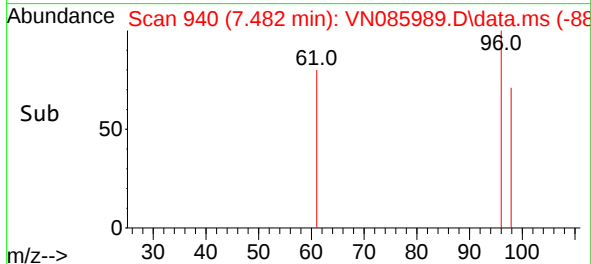
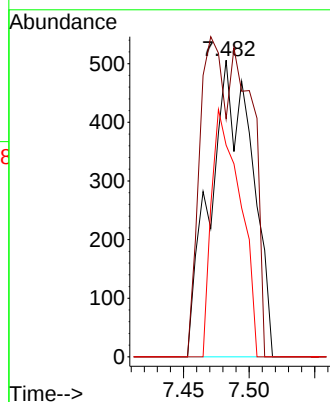
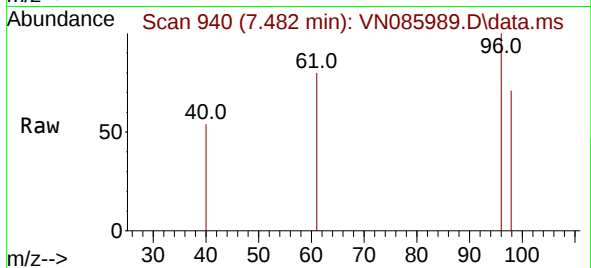




#27
 cis-1,2-Dichloroethene
 Concen: 0.568 ug/l
 RT: 7.482 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: VN085989.D
 Acq: 14 Mar 2025 15:09

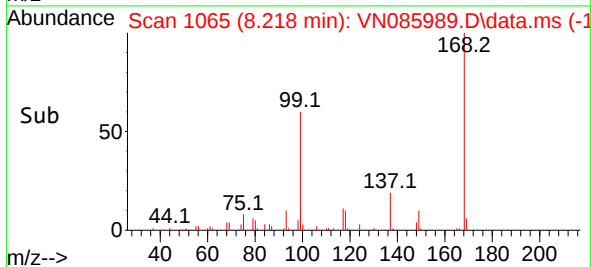
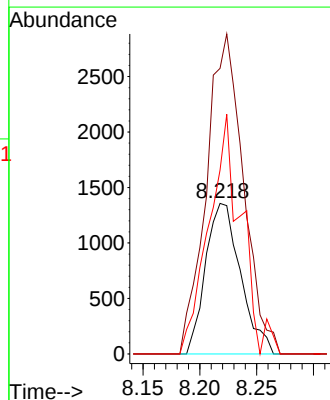
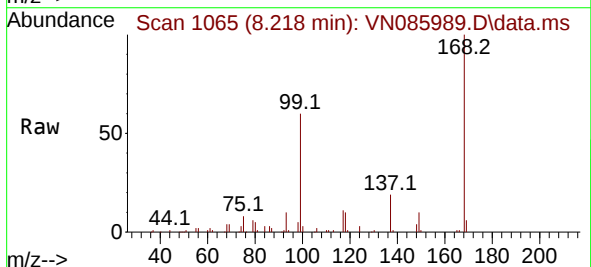
Instrument :
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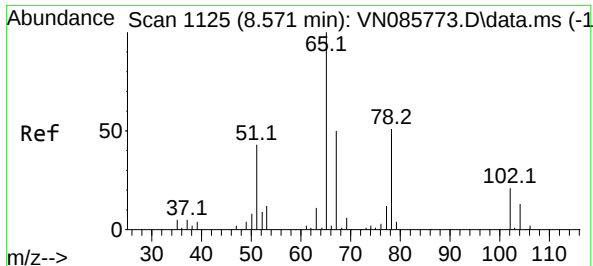
Tgt Ion: 96	Resp:	1130	
Ion	Ratio	Lower	Upper
96	100		
61	67.1	0.0	280.6
98	57.0	0.0	128.6



#31
 Cyclohexane
 Concen: 1.077 ug/l
 RT: 8.218 min Scan# 1065
 Delta R.T. -0.035 min
 Lab File: VN085989.D
 Acq: 14 Mar 2025 15:09

Tgt Ion: 56	Resp:	2897	
Ion	Ratio	Lower	Upper
56	100		
69	189.7	25.8	38.6#
84	122.0	74.5	111.7#





#33

1,2-Dichloroethane-d4

Concen: 53.406 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085989.D

Acq: 14 Mar 2025 15:09

Instrument :

MSVOA_N

ClientSampleId :

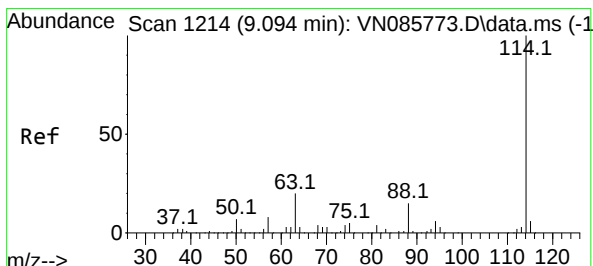
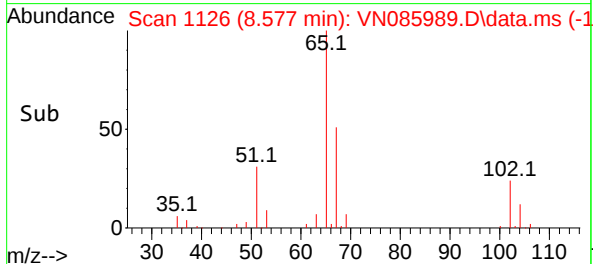
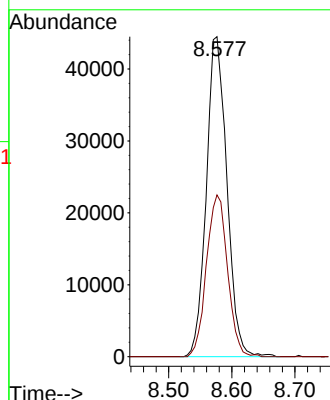
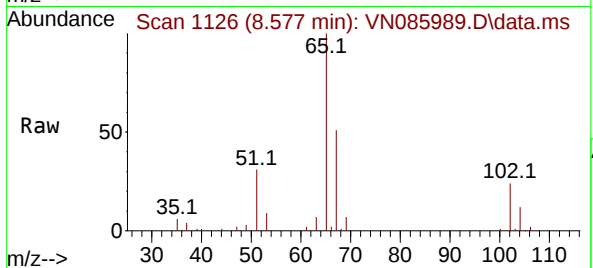
MW14

Tgt Ion: 65 Resp: 100583

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085989.D

Acq: 14 Mar 2025 15:09

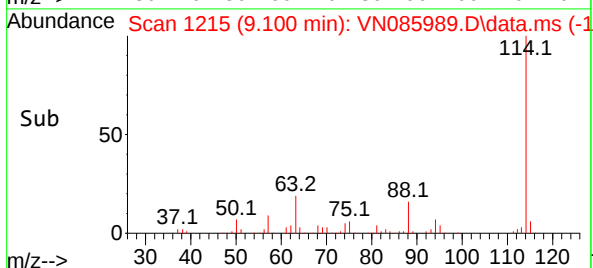
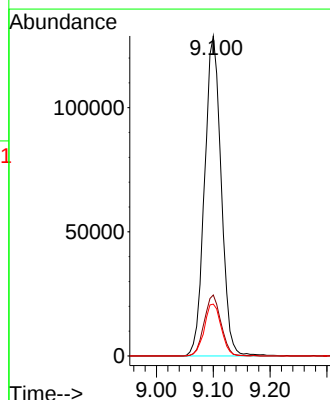
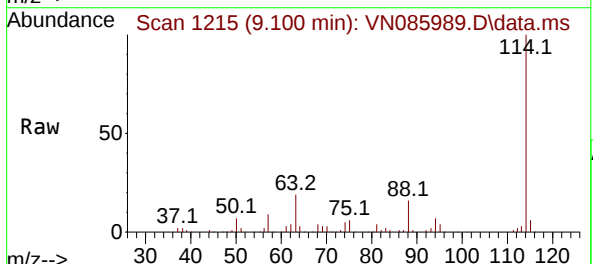
Tgt Ion: 114 Resp: 261290

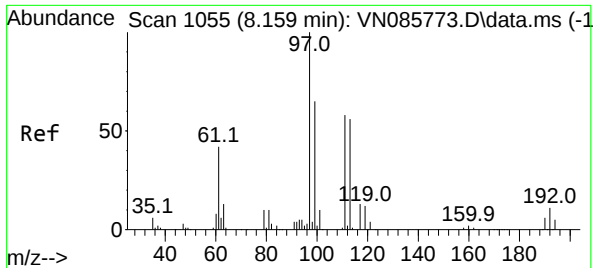
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.2

88 16.2 0.0 30.0

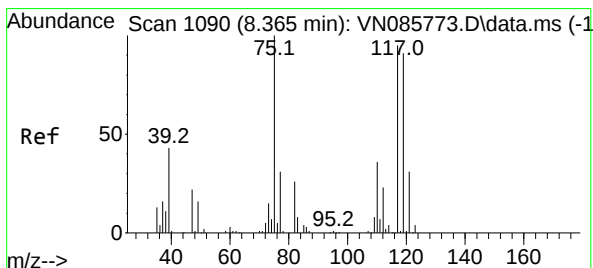
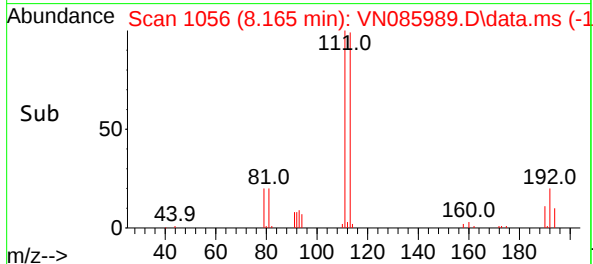
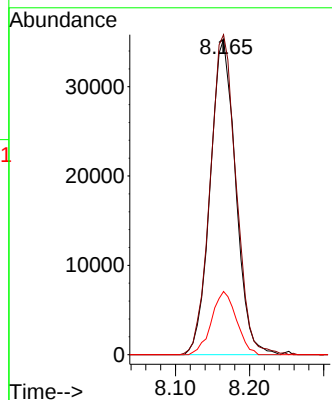
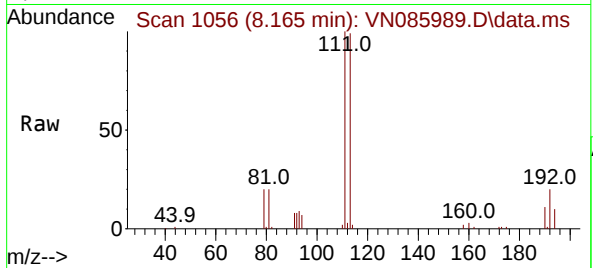




#35
Dibromofluoromethane
Concen: 49.101 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

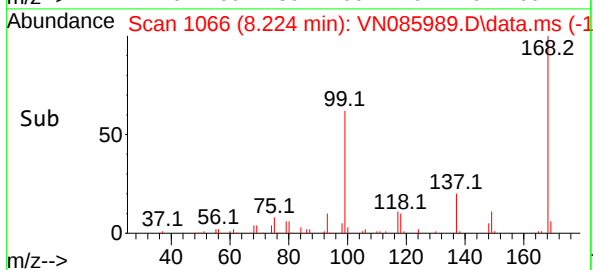
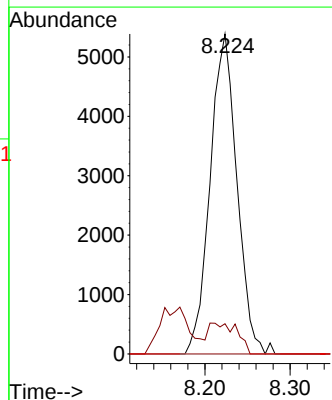
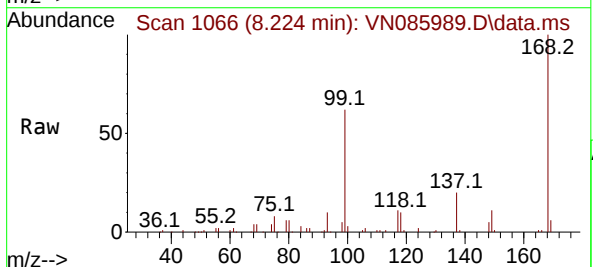
Instrument :
MSVOA_N
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MW14

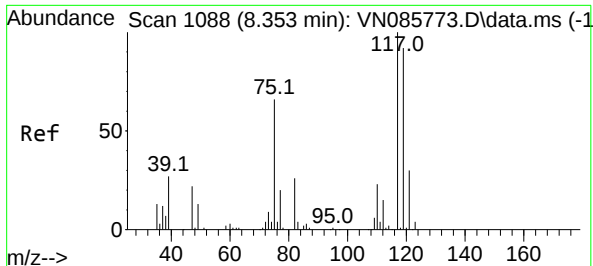
Tgt Ion:113 Resp: 83950
Ion Ratio Lower Upper
113 100
111 103.5 82.2 123.4
192 19.7 14.7 22.1



#36
1,1-Dichloropropene
Concen: 4.874 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

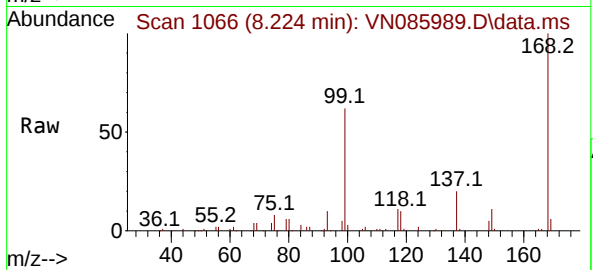
Tgt Ion: 75 Resp: 11793
Ion Ratio Lower Upper
75 100
110 10.1 17.3 52.0#
77 0.0 24.6 37.0#



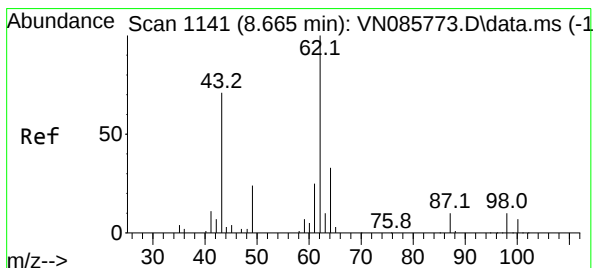
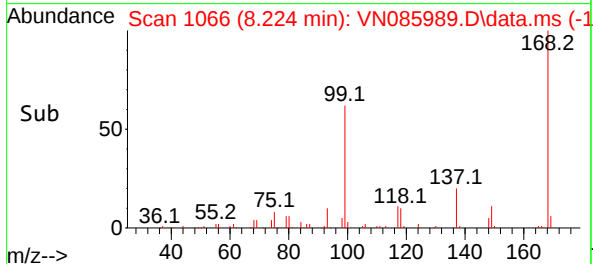
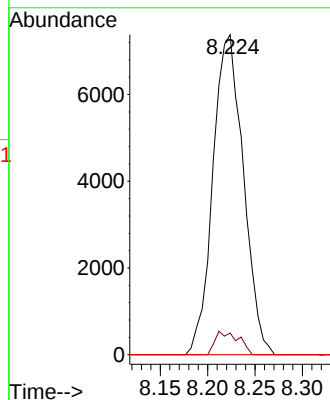


#38
Carbon Tetrachloride
Concen: 5.744 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.130 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Instrument :
MSVOA_N
ClientSampleId :
MW14

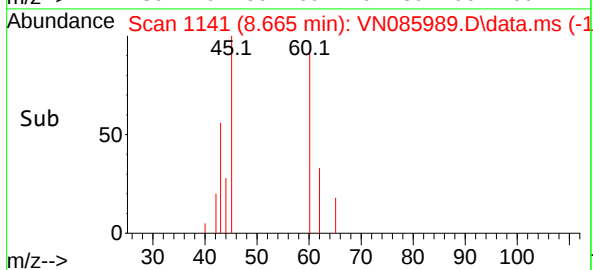
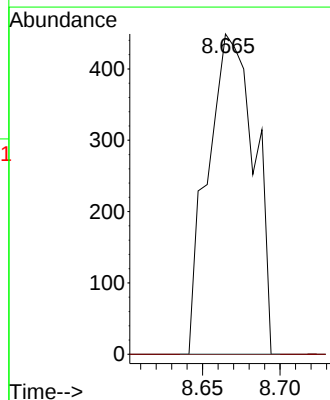
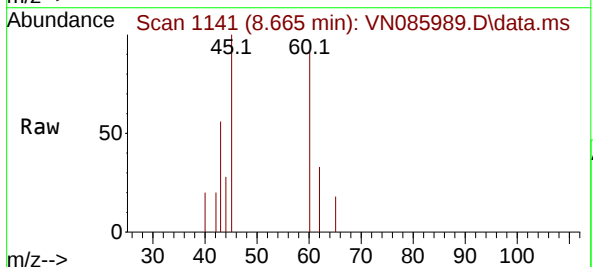


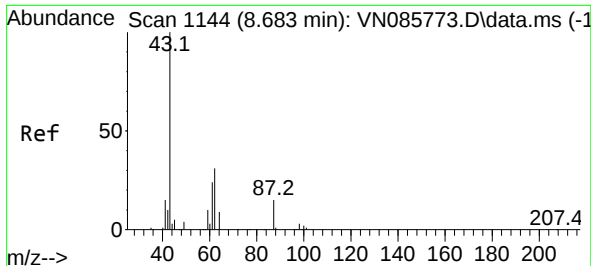
Tgt Ion:117 Resp: 16515
Ion Ratio Lower Upper
117 100
119 6.8 73.8 110.6#
121 0.0 24.3 36.5#



#42
1,2-Dichloroethane
Concen: 0.371 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 62 Resp: 938
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6

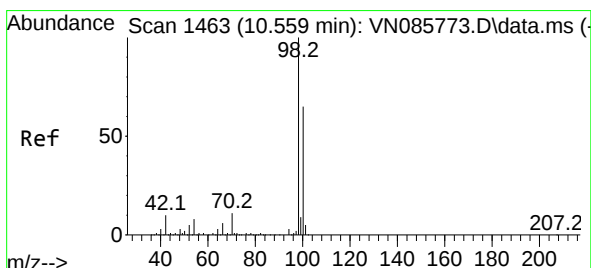
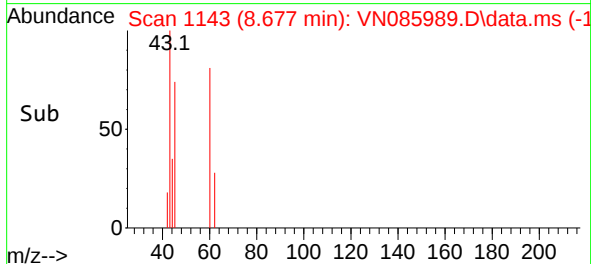
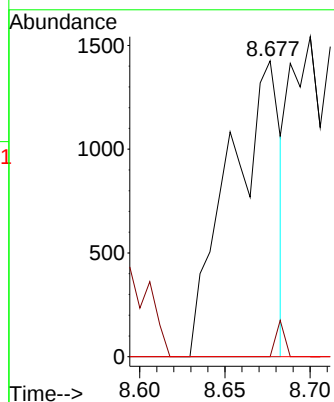
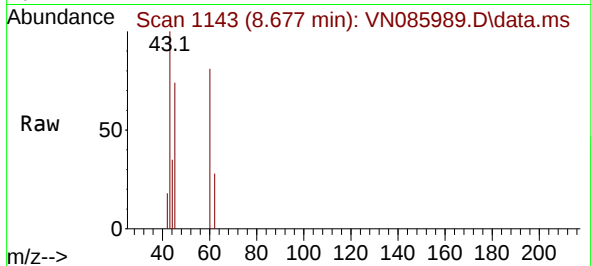




#43
Isopropyl Acetate
Concen: 0.293 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

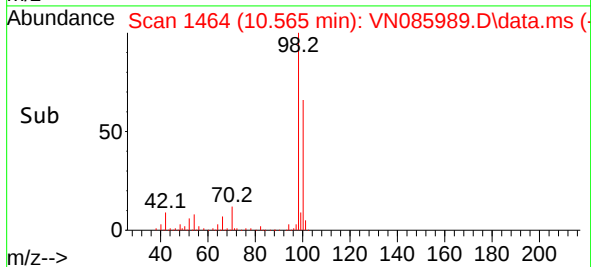
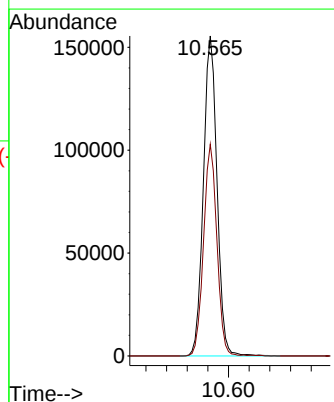
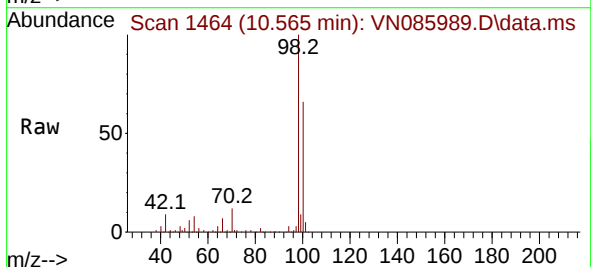
Instrument :
MSVOA_N
ClientSampleId :
MW14

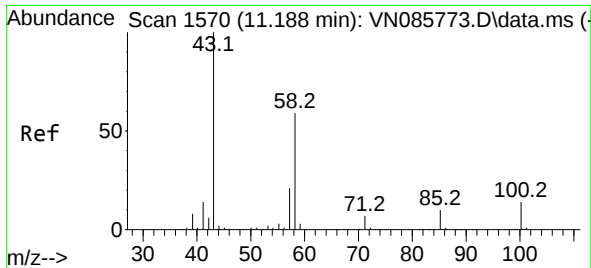
Tgt Ion: 43 Resp: 2921
Ion Ratio Lower Upper
43 100
61 2.1 22.6 34.0#
87 0.0 11.8 17.8#



#50
Toluene-d8
Concen: 45.791 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 98 Resp: 284851
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1

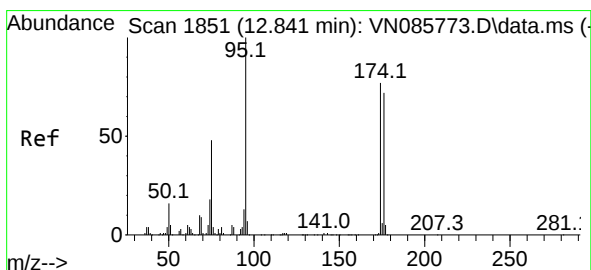
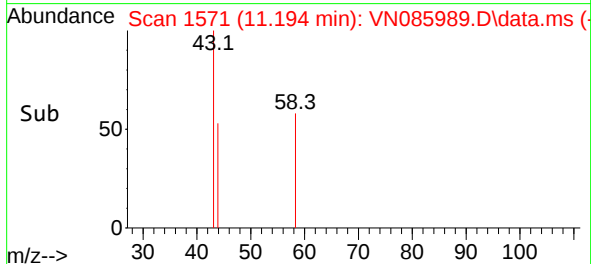
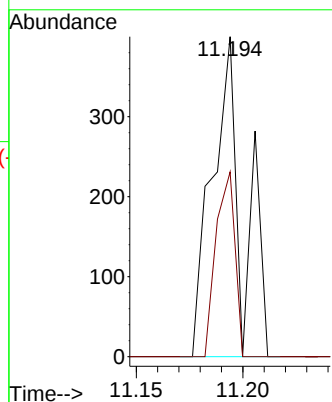
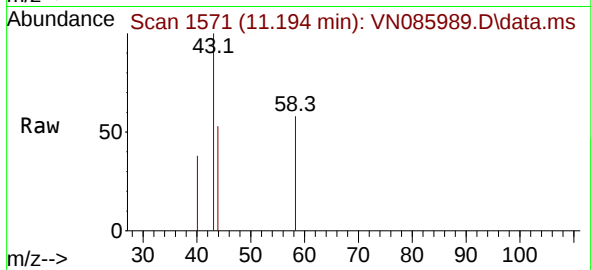




#59
2-Hexanone
Concen: 0.301 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

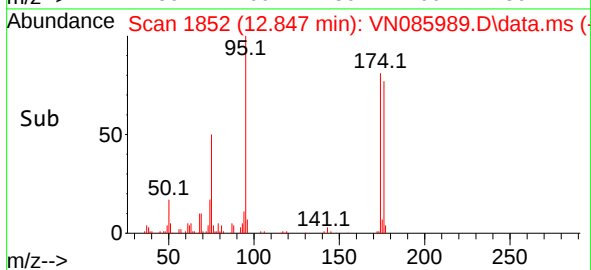
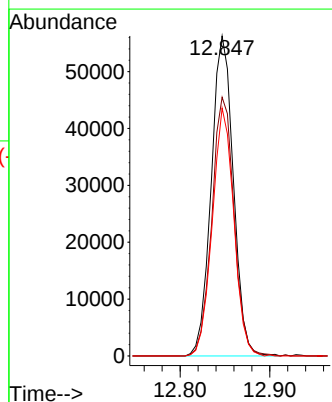
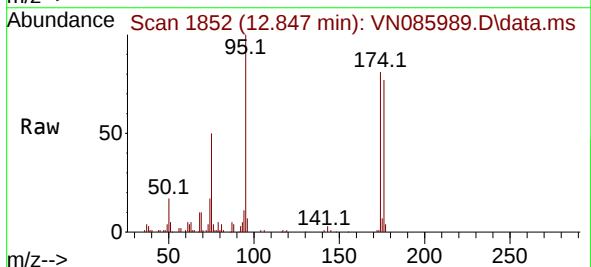
Instrument :
MSVOA_N
ClientSampleId :
MW14

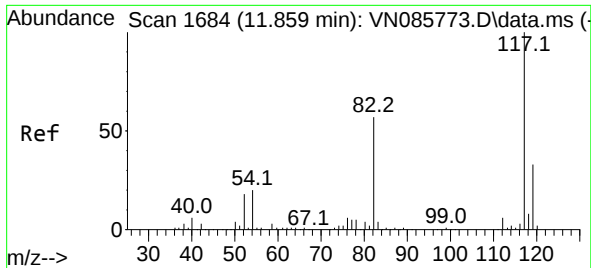
Tgt Ion: 43 Resp: 397
Ion Ratio Lower Upper
43 100
58 35.8 29.8 89.5



#62
4-Bromofluorobenzene
Concen: 46.931 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 95 Resp: 96187
Ion Ratio Lower Upper
95 100
174 81.6 0.0 152.4
176 75.5 0.0 146.6

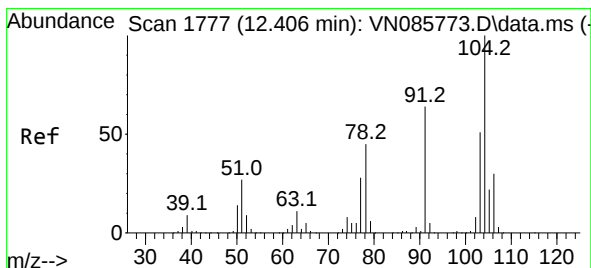
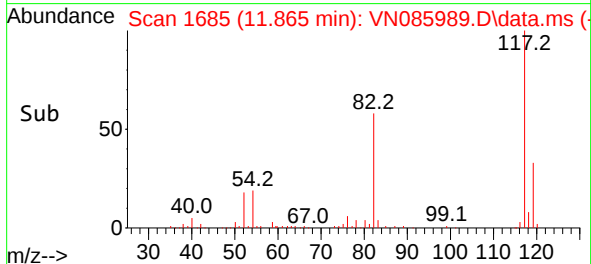
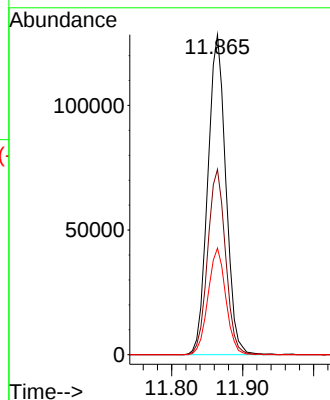
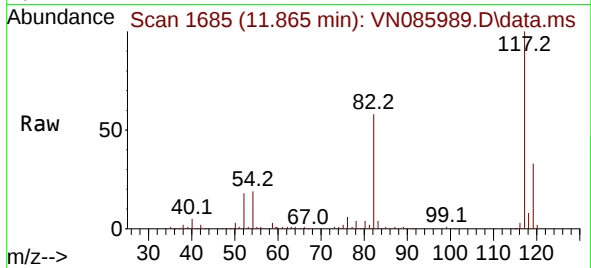




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

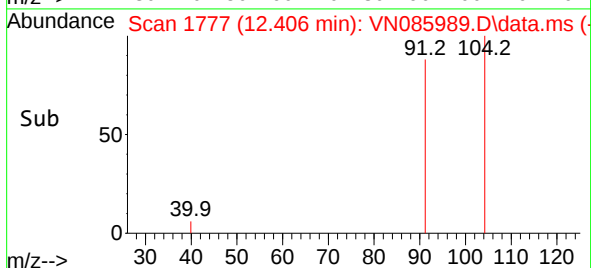
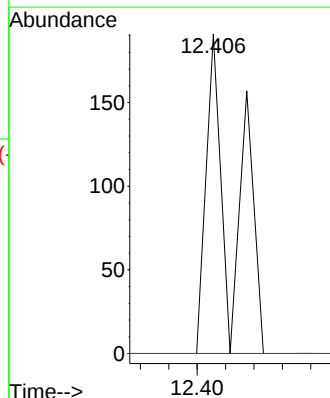
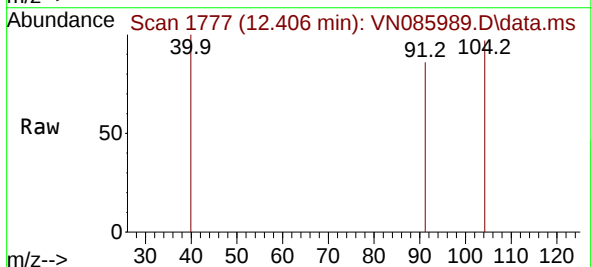
Instrument :
MSVOA_N
ClientSampleId :
MW14

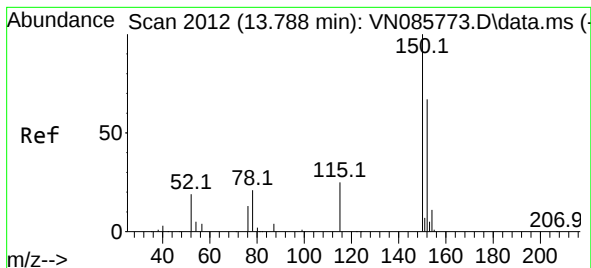
Tgt Ion:117 Resp: 226445
Ion Ratio Lower Upper
117 100
82 57.9 45.7 68.5
119 33.3 26.2 39.2



#70
Styrene
Concen: 0.609 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion:104 Resp: 123
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 0.0 43.3 64.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085989.D

Acq: 14 Mar 2025 15:09

Instrument :

MSVOA_N

ClientSampleId :

MW14

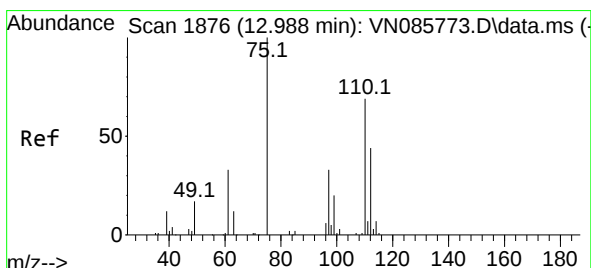
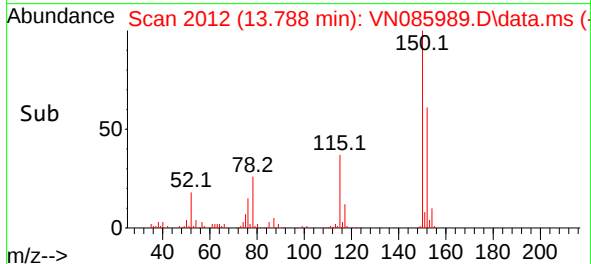
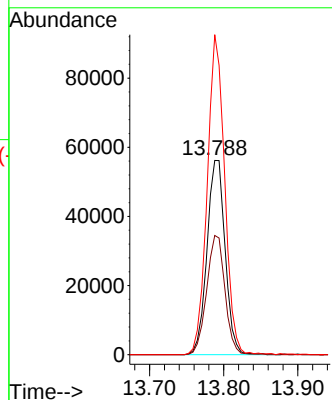
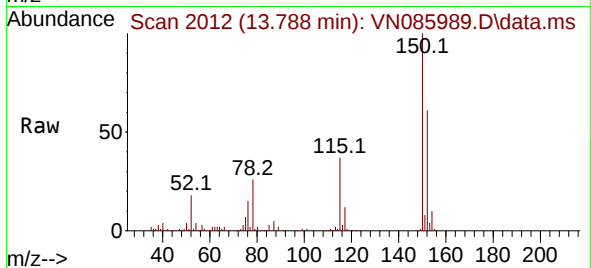
Tgt Ion:152 Resp: 95951

Ion Ratio Lower Upper

152 100

115 61.8 30.4 91.3

150 157.7 0.0 345.4



#76

1,2,3-Trichloropropane

Concen: 22.225 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085989.D

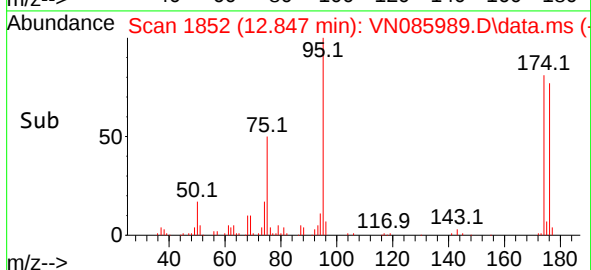
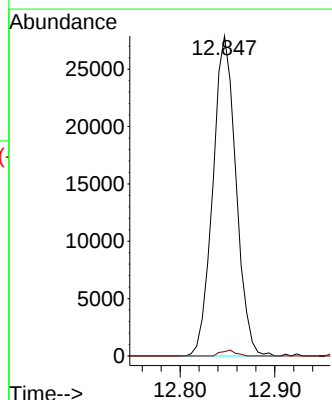
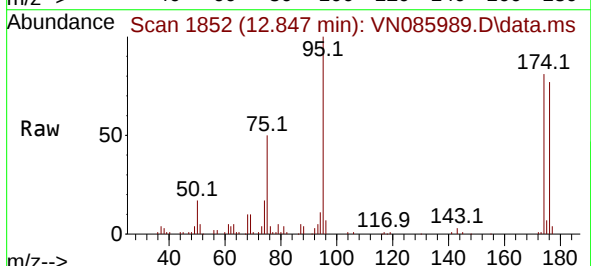
Acq: 14 Mar 2025 15:09

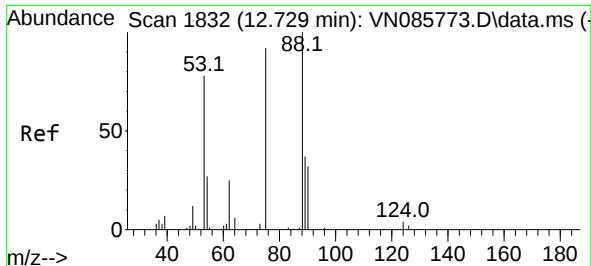
Tgt Ion: 75 Resp: 47370

Ion Ratio Lower Upper

75 100

77 1.2 100.0 300.0#

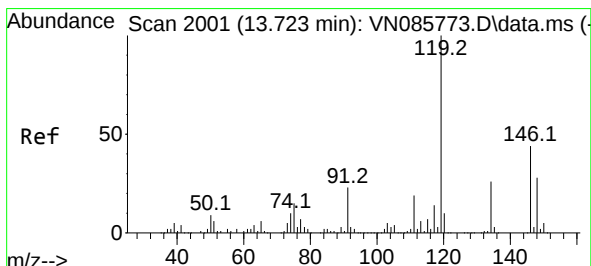
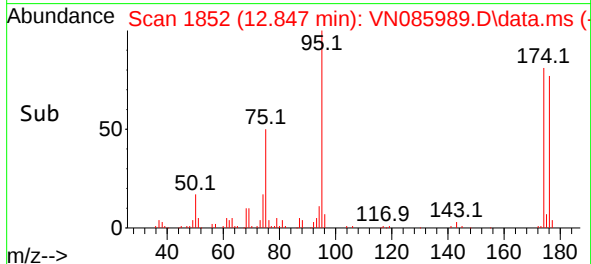
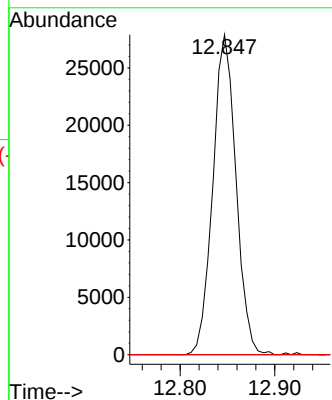
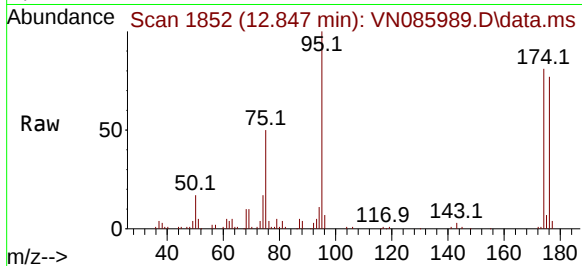




#81
trans-1,4-Dichloro-2-butene
Concen: 64.847 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

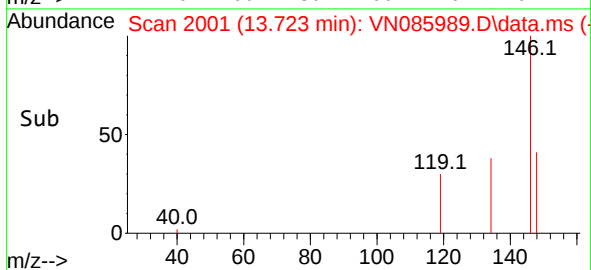
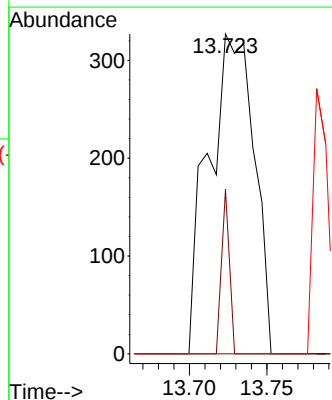
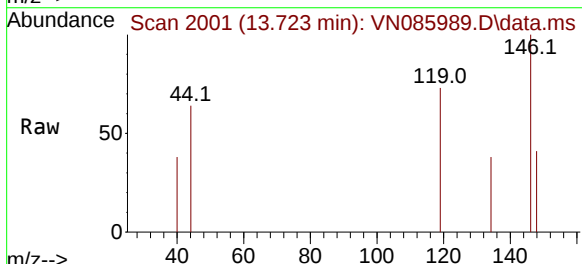
Instrument :
MSVOA_N
ClientSampleId :
MW14

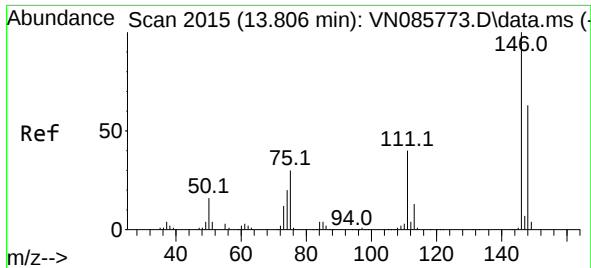
Tgt Ion: 75 Resp: 47370
Ion Ratio Lower Upper
75 100
53 0.0 74.2 111.4#
89 0.0 34.9 52.3#



#86
p-Isopropyltoluene
Concen: 0.748 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 119 Resp: 669
Ion Ratio Lower Upper
119 100
134 8.8 13.0 39.0#
91 0.0 11.7 35.1#

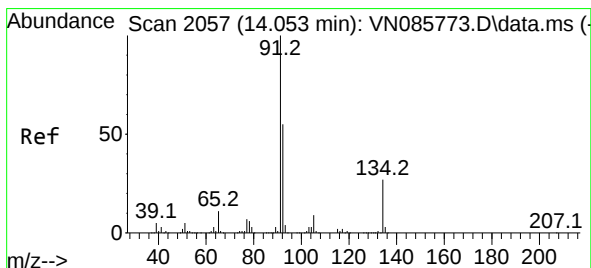
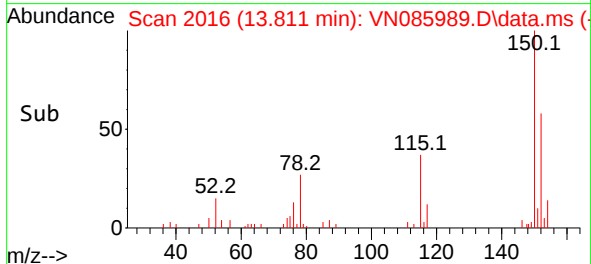
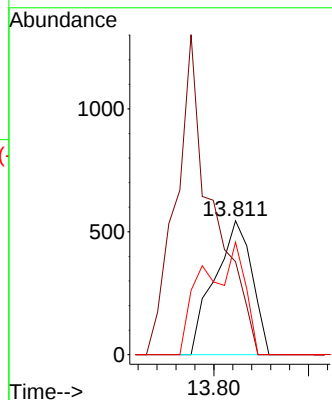
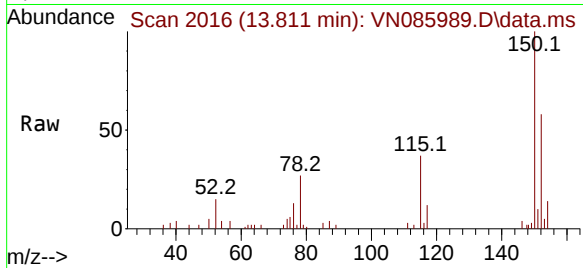




#88
1,4-Dichlorobenzene
Concen: 0.219 ug/l
RT: 13.811 min Scan# 2015
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

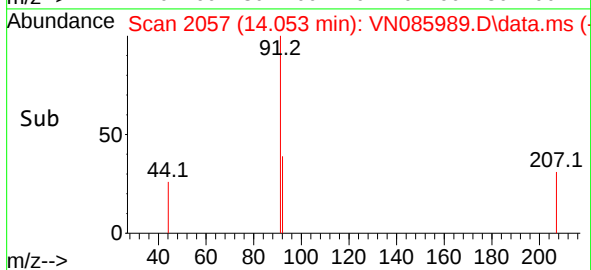
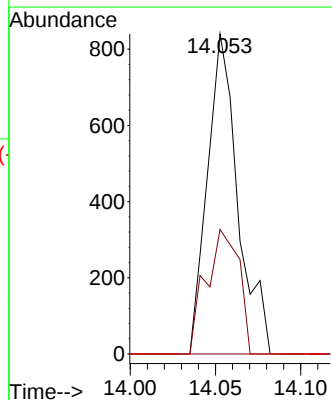
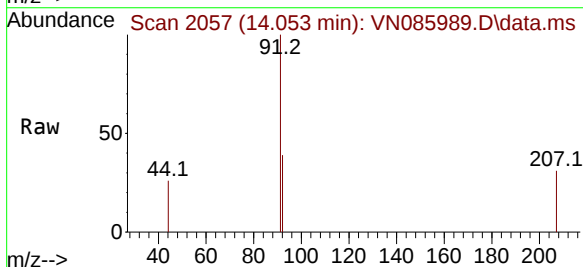
Instrument :
MSVOA_N
ClientSampleId :
MW14

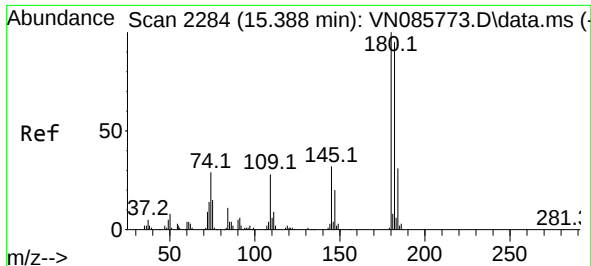
Tgt Ion:146 Resp: 746
Ion Ratio Lower Upper
146 100
111 0.0 20.4 61.3#
148 91.2 31.8 95.4



#89
n-Butylbenzene
Concen: 0.232 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion: 91 Resp: 1046
Ion Ratio Lower Upper
91 100
92 42.0 27.1 81.3
134 0.0 12.7 38.1#

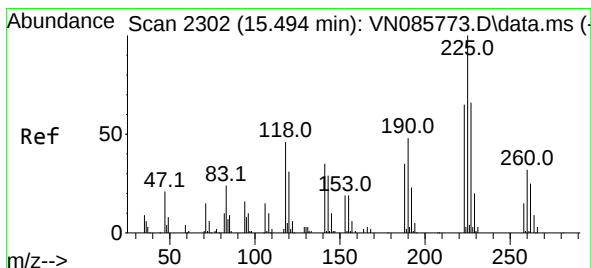
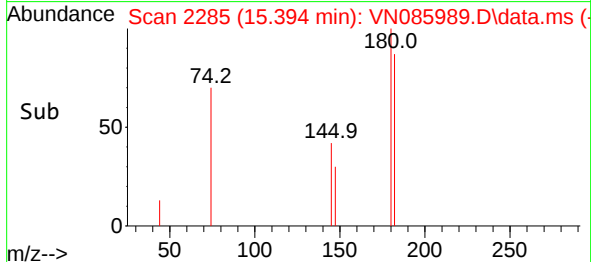
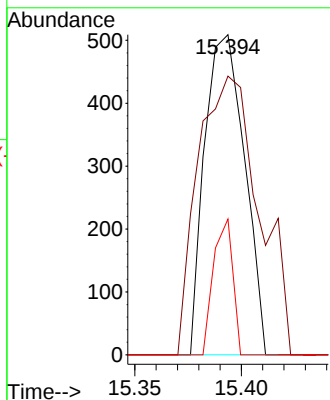
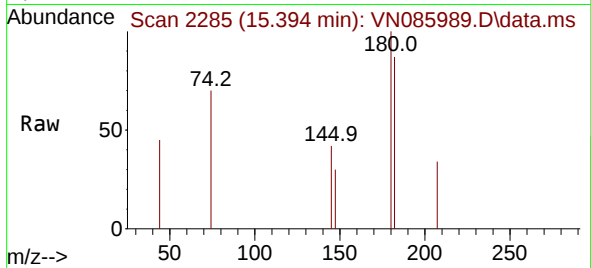




#93
1,2,4-Trichlorobenzene
Concen: 0.435 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

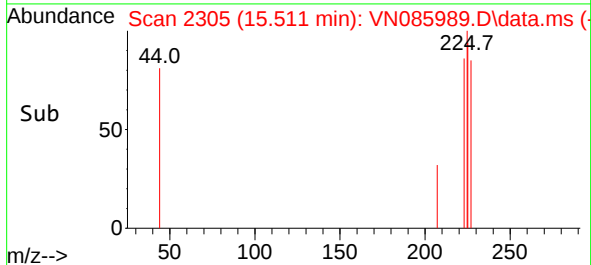
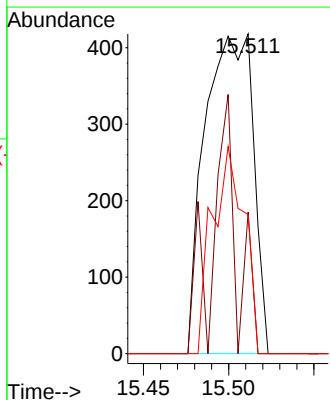
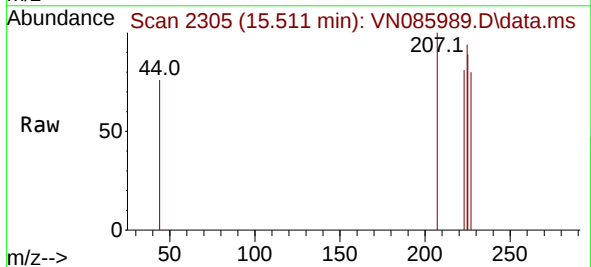
Instrument :
MSVOA_N
ClientSampleId :
MW14

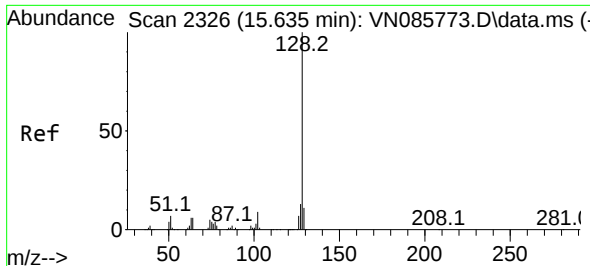
Tgt Ion:180 Resp: 663
Ion Ratio Lower Upper
180 100
182 133.2 47.3 141.9
145 20.5 16.2 48.5



#94
Hexachlorobutadiene
Concen: 0.885 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.018 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion:225 Resp: 820
Ion Ratio Lower Upper
225 100
223 41.2 31.9 95.5
227 43.0 32.2 96.6

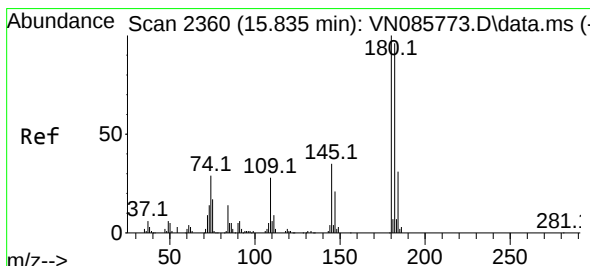
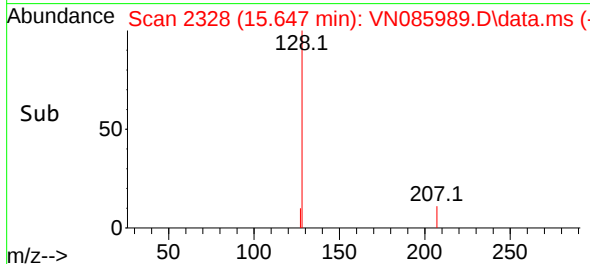
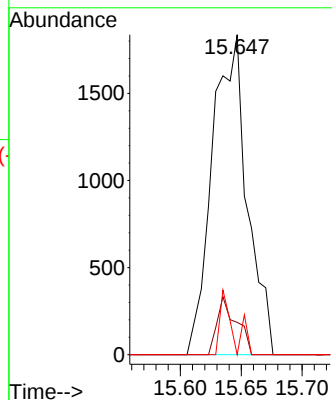
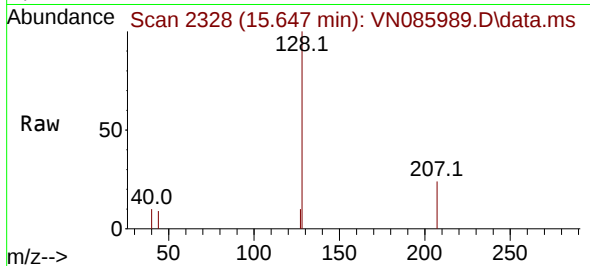




#95
Naphthalene
Concen: 0.875 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.012 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Instrument :
MSVOA_N
ClientSampleId :
MW14

Tgt Ion:128 Resp: 3661
Ion Ratio Lower Upper
128 100
127 10.0 10.2 15.2#
129 5.4 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.679 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085989.D
Acq: 14 Mar 2025 15:09

Tgt Ion:180 Resp: 1039
Ion Ratio Lower Upper
180 100
182 66.0 47.3 141.8
145 12.1 16.9 50.6#

