

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032025\
 Data File : VN086030.D
 Acq On : 20 Mar 2025 17:33
 Operator : JC\MD
 Sample : Q1576-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW7

Quant Time: Mar 21 01:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

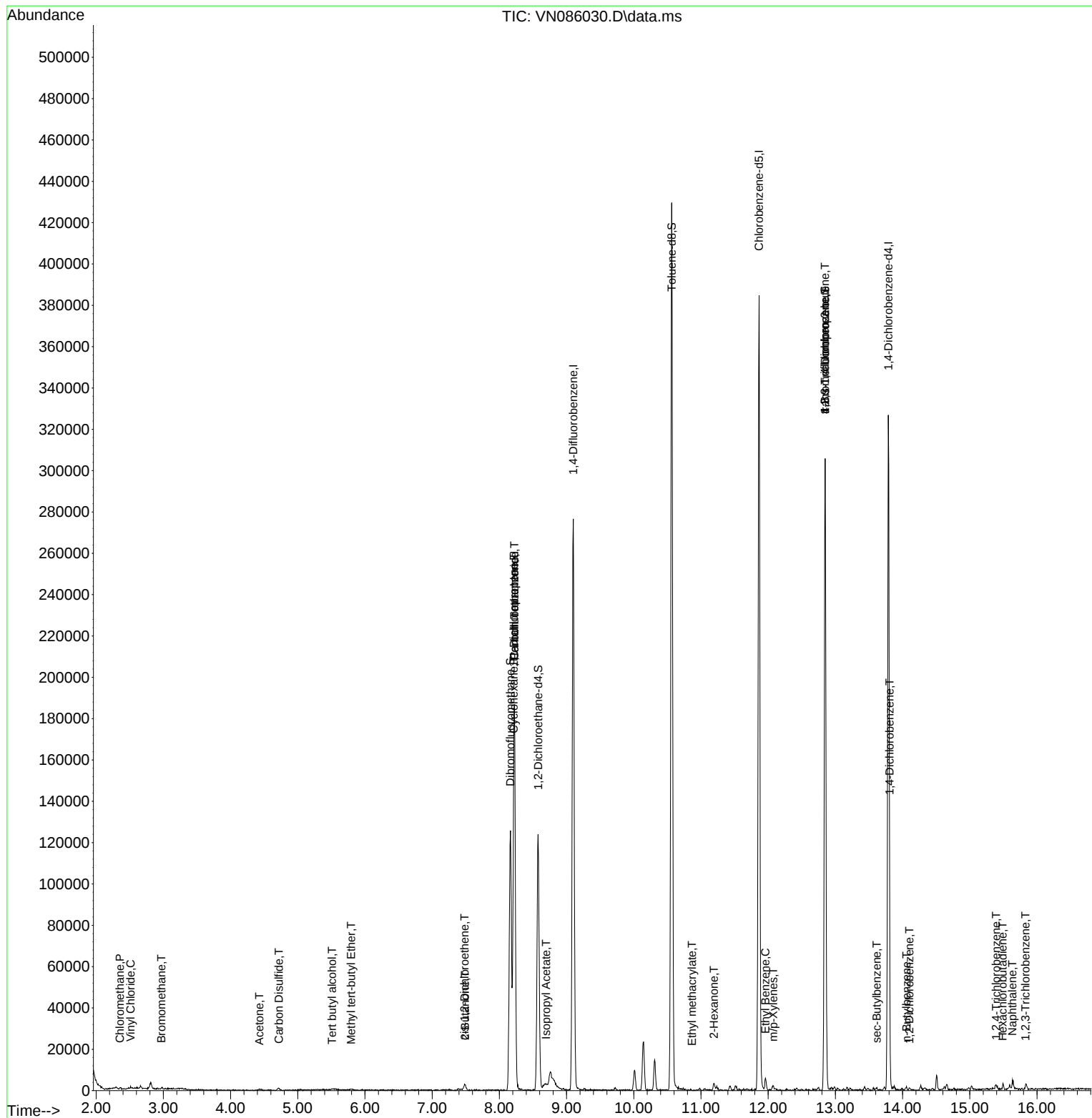
Internal Standards						
1) Pentafluorobenzene	8.224	168	138616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	242981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104495	55.052	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	= 110.100%		
35) Dibromofluoromethane	8.165	113	89735	52.911	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	= 105.820%		
50) Toluene-d8	10.565	98	306504	49.796	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	= 99.600%		
62) 4-Bromofluorobenzene	12.847	95	110086	50.150	ug/l	0.00
Spiked Amount 50.000	Range 77	- 121	Recovery	= 100.300%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	382	0.237	ug/l #	42
4) Vinyl Chloride	2.512	62	335	0.204	ug/l #	43
5) Bromomethane	2.971	94	331	0.295	ug/l #	78
11) Tert butyl alcohol	5.512	59	671	2.497	ug/l #	73
16) Acetone	4.430	43	929	1.602	ug/l #	38
17) Carbon Disulfide	4.718	76	1346	0.288	ug/l #	74
19) Methyl tert-butyl Ether	5.795	73	1001	0.215	ug/l #	56
25) 2-Butanone	7.489	43	220	0.263	ug/l #	40
27) cis-1,2-Dichloroethene	7.483	96	1966	1.115	ug/l	87
31) Cyclohexane	8.212	56	3057	1.293	ug/l #	6
36) 1,1-Dichloropropene	8.218	75	10706	4.794	ug/l #	48
38) Carbon Tetrachloride	8.224	117	14135	4.814	ug/l #	17
43) Isopropyl Acetate	8.694	43	4256	1.042	ug/l #	50
56) Ethyl methacrylate	10.865	69	83	0.227	ug/l #	33
59) 2-Hexanone	11.194	43	1446	1.102	ug/l #	43
67) Ethyl Benzene	11.959	91	4176	0.503	ug/l	93
68) m/p-Xylenes	12.076	106	725	0.222	ug/l #	52
76) 1,2,3-Trichloropropane	12.847	75	52863	25.586	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	52863	67.645	ug/l #	16
85) sec-Butylbenzene	13.618	105	1291	0.217	ug/l	89
88) 1,4-Dichlorobenzene	13.806	146	974	0.293	ug/l #	43
89) n-Butylbenzene	14.059	91	1473	0.360	ug/l	77
91) 1,2-Dichlorobenzene	14.100	146	656	0.208	ug/l	82
93) 1,2,4-Trichlorobenzene	15.394	180	1159	0.732	ug/l #	82
94) Hexachlorobutadiene	15.488	225	822	0.895	ug/l	78
95) Naphthalene	15.635	128	5217	1.138	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.829	180	1207	0.803	ug/l #	82

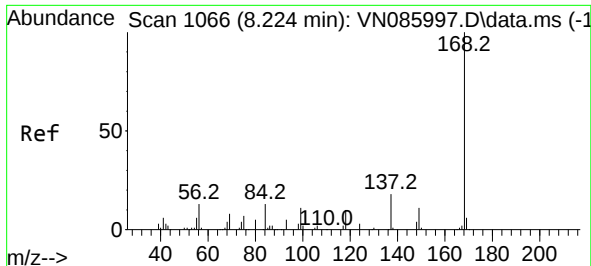
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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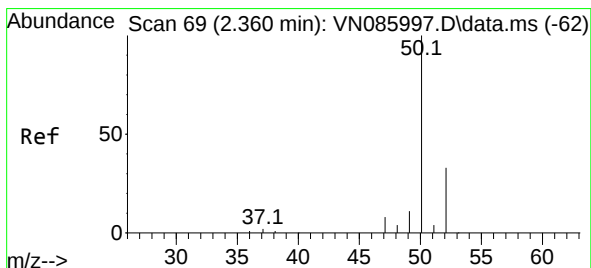
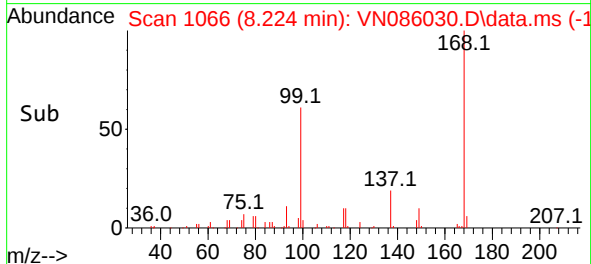
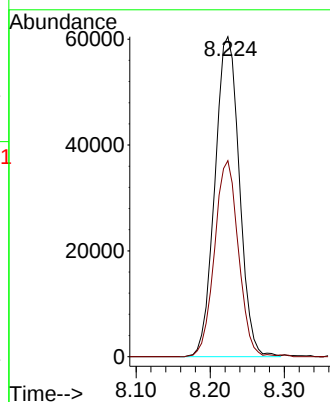
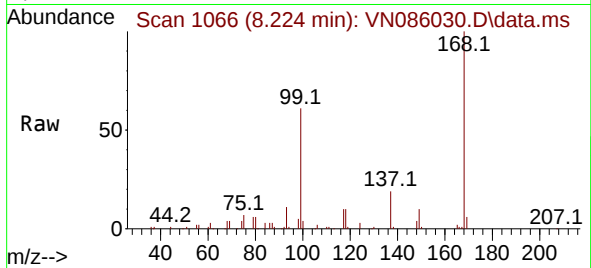




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

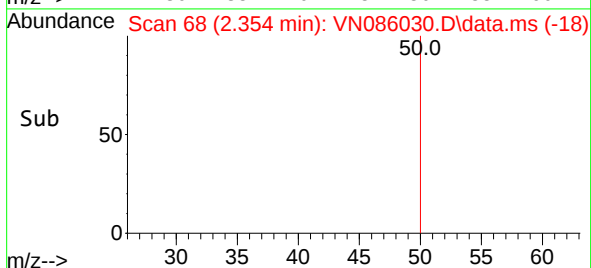
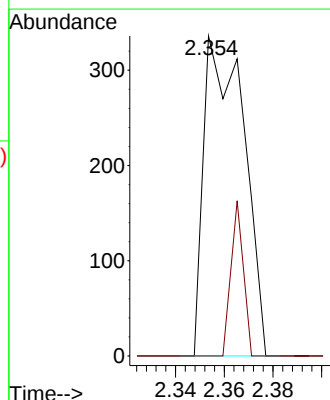
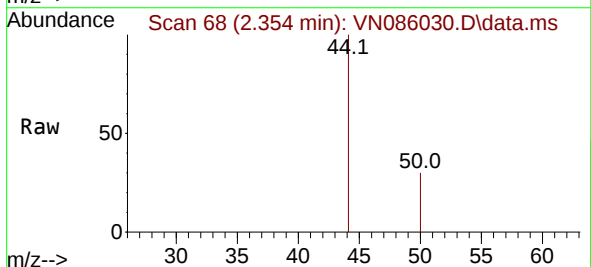
Instrument :
MSVOA_N
ClientSampleId :
MW7

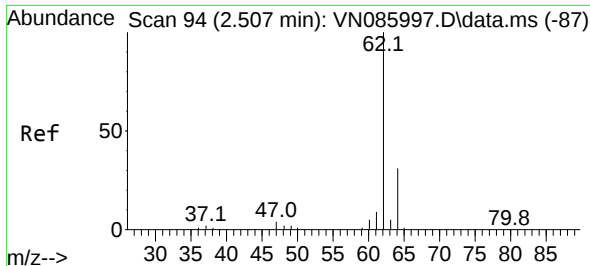
Tgt Ion:168 Resp: 138616
Ion Ratio Lower Upper
168 100
99 61.3 49.4 74.2



#3
Chloromethane
Concen: 0.237 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 50 Resp: 382
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

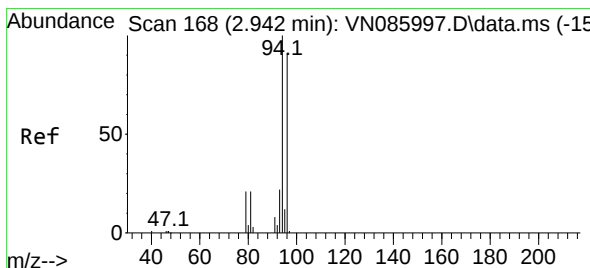
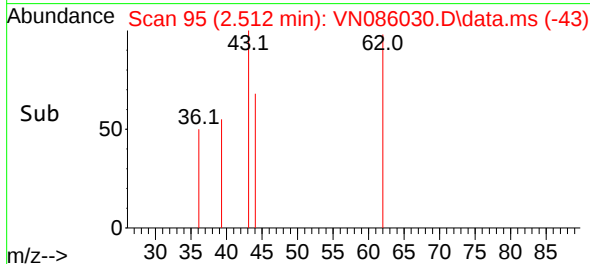
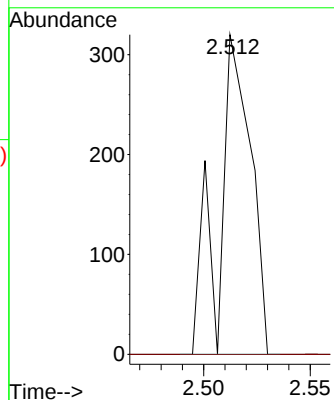
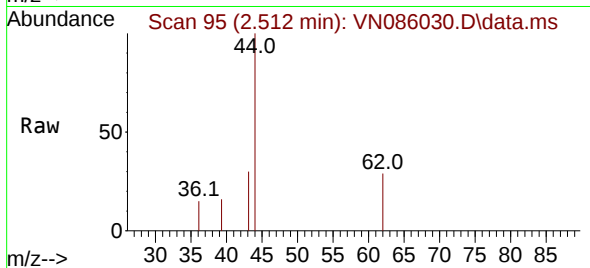




#4
 Vinyl Chloride
 Concen: 0.204 ug/l
 RT: 2.512 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VN086030.D
 Acq: 20 Mar 2025 17:33

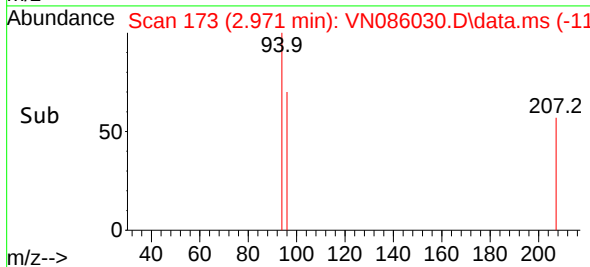
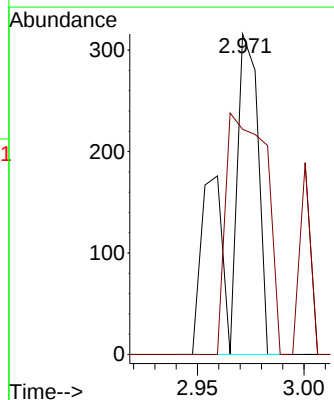
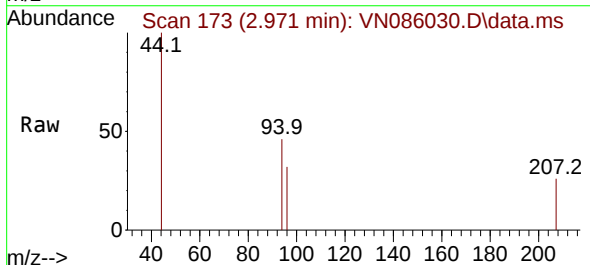
Instrument :
 MSVOA_N
 ClientSampleId :
 MW7

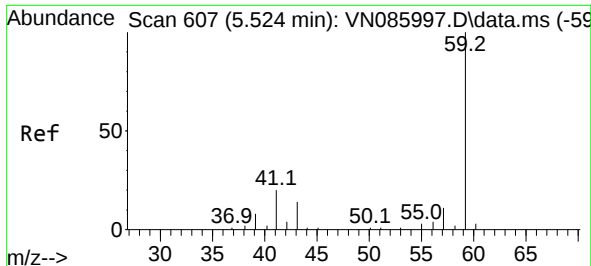
Tgt Ion: 62 Resp: 335
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.2 37.8#



#5
 Bromomethane
 Concen: 0.295 ug/l
 RT: 2.971 min Scan# 173
 Delta R.T. 0.029 min
 Lab File: VN086030.D
 Acq: 20 Mar 2025 17:33

Tgt Ion: 94 Resp: 331
 Ion Ratio Lower Upper
 94 100
 96 70.3 72.8 109.2#

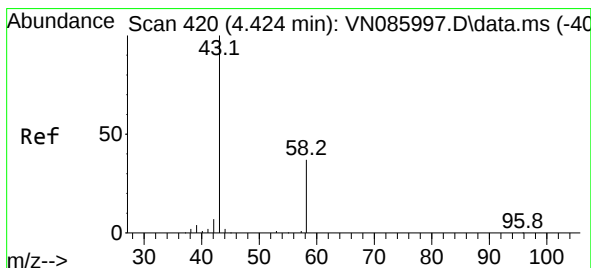
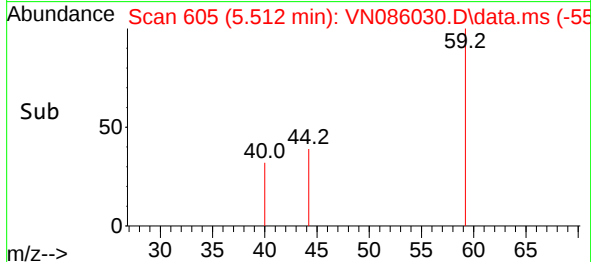
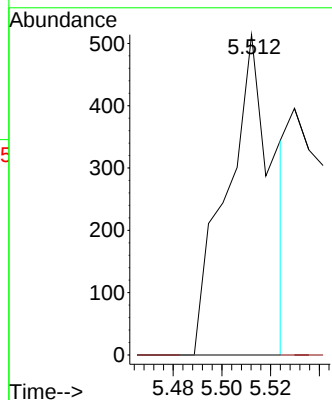
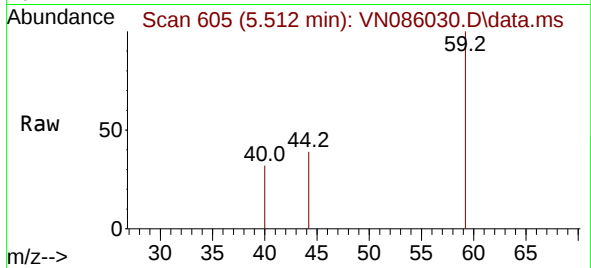




#11
Tert butyl alcohol
Concen: 2.497 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

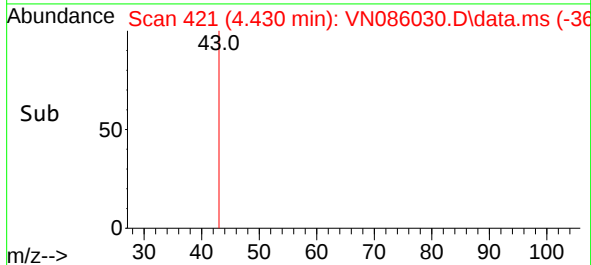
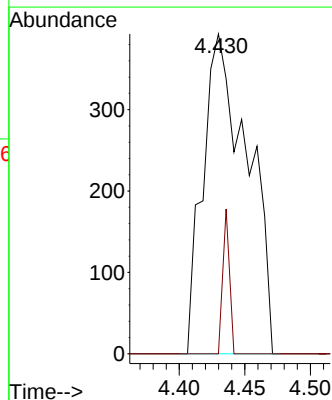
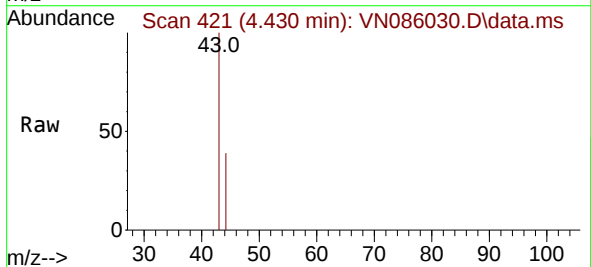
Instrument :
MSVOA_N
ClientSampleId :
MW7

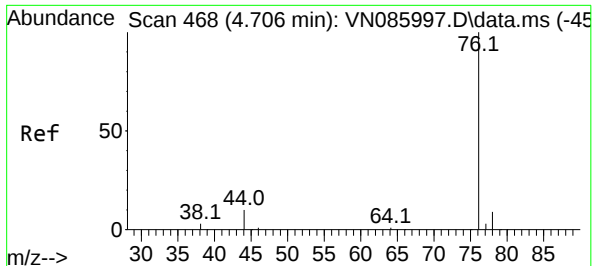
Tgt Ion: 59 Resp: 671
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 1.602 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 43 Resp: 929
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.2#

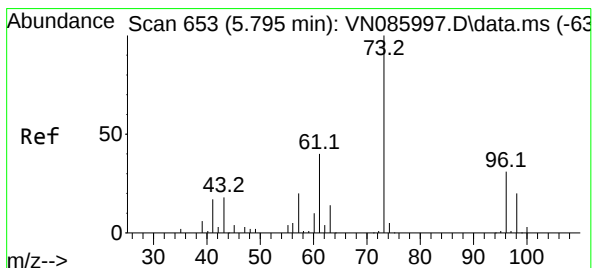
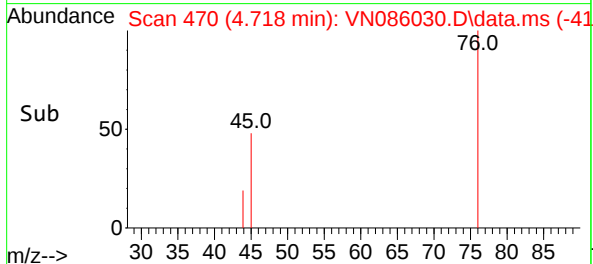
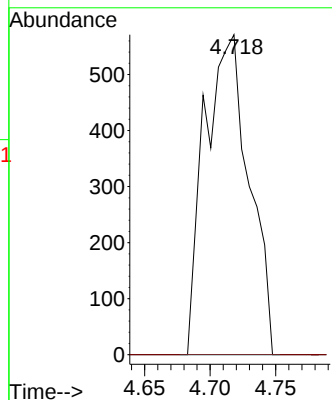
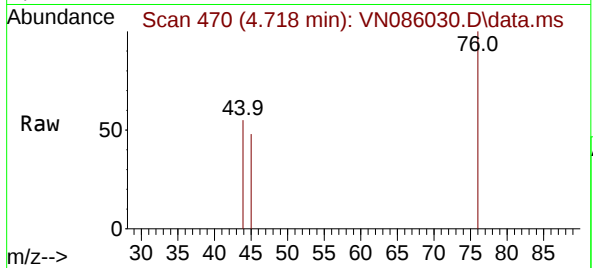




#17
Carbon Disulfide
Concen: 0.288 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

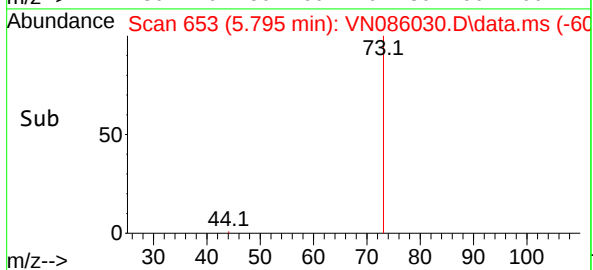
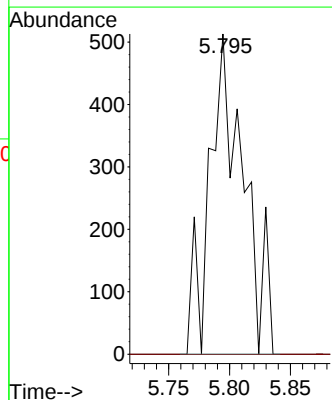
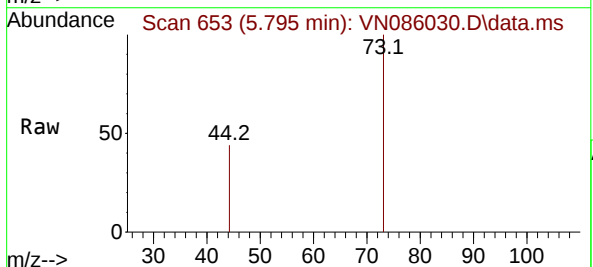
Instrument :
MSVOA_N
ClientSampleId :
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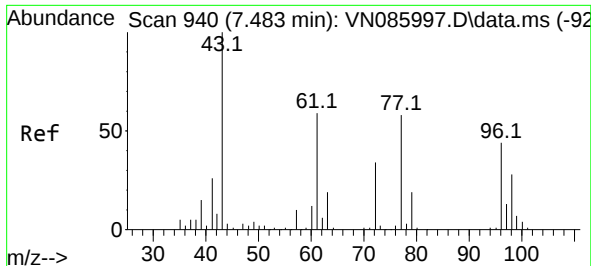
Tgt Ion: 76 Resp: 1346
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#19
Methyl tert-butyl Ether
Concen: 0.215 ug/l
RT: 5.795 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 73 Resp: 1001
Ion Ratio Lower Upper
73 100
57 0.0 16.1 24.1#

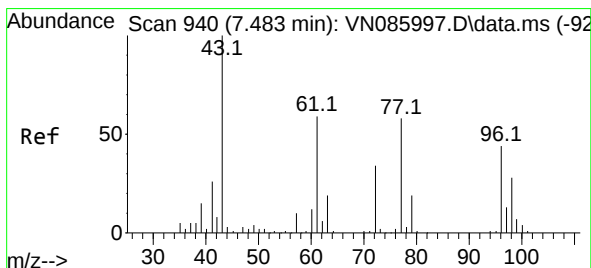
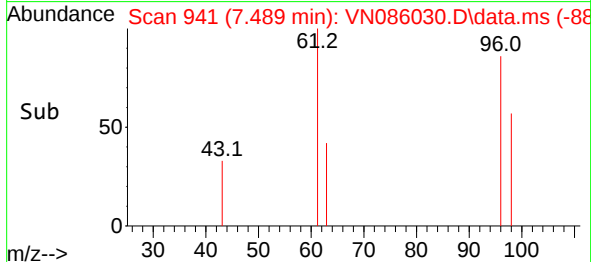
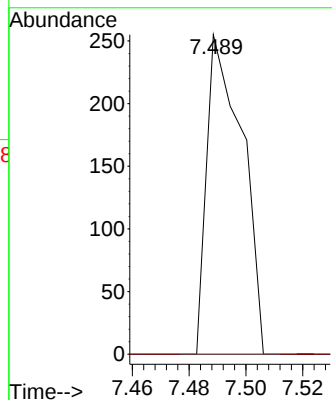
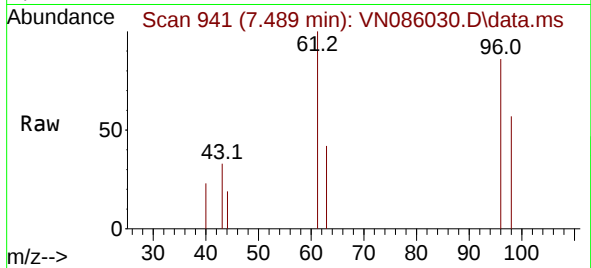




#25
2-Butanone
Concen: 0.263 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

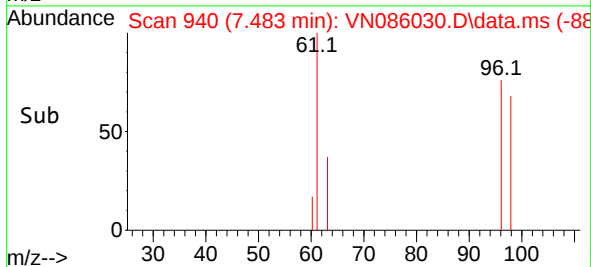
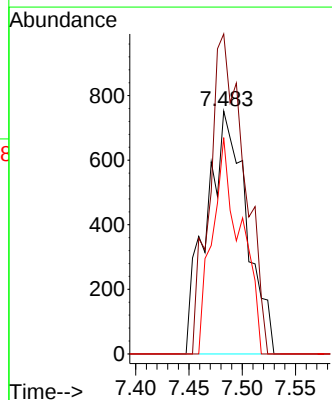
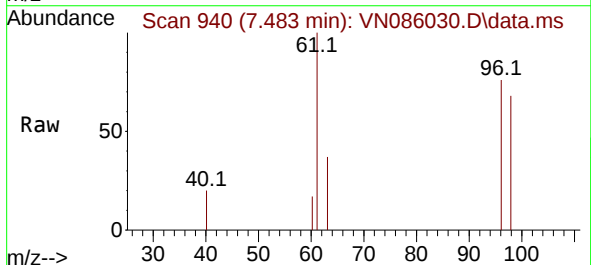
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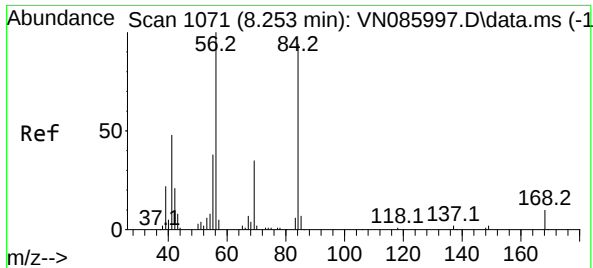
Tgt Ion: 43 Resp: 220
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#



#27
cis-1,2-Dichloroethene
Concen: 1.115 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 96 Resp: 1966
Ion Ratio Lower Upper
96 100
61 114.4 0.0 272.8
98 63.5 0.0 124.8

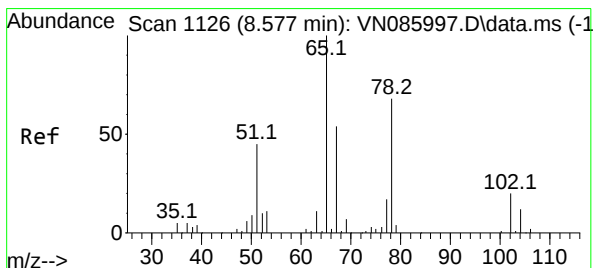
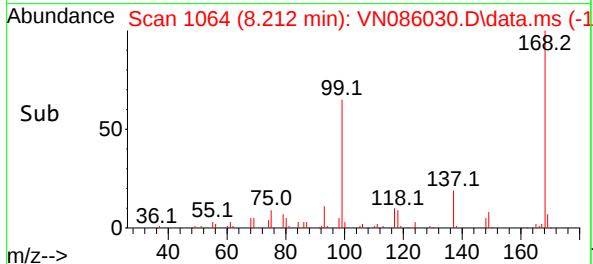
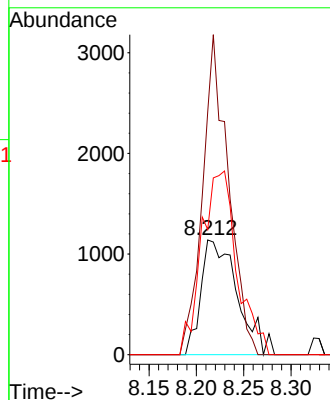
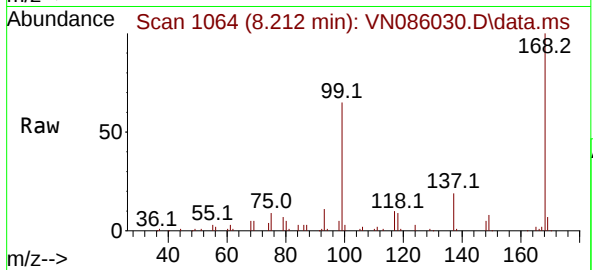




#31
Cyclohexane
Concen: 1.293 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

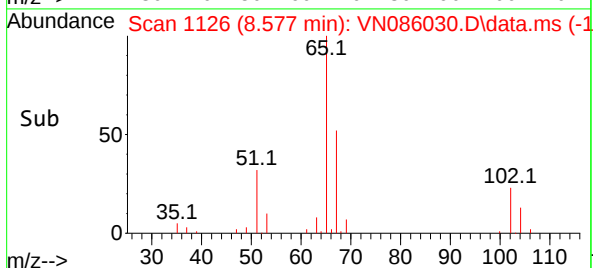
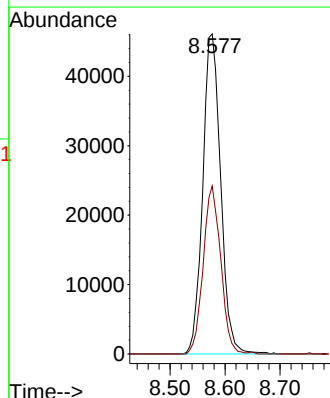
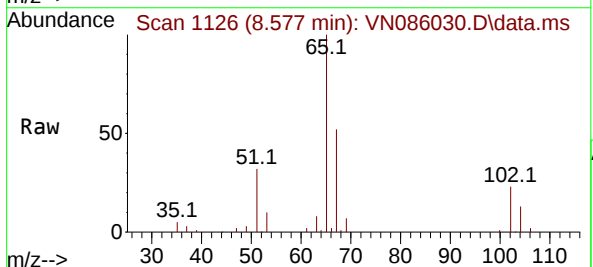
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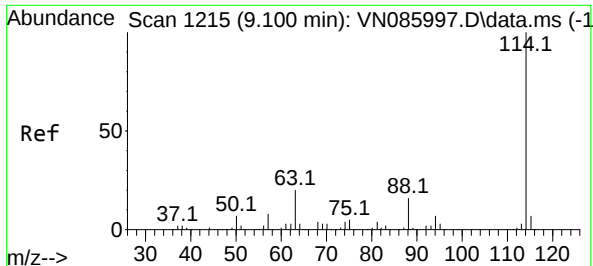
Tgt Ion: 56 Resp: 3057
Ion Ratio Lower Upper
56 100
69 211.4 28.0 42.0#
84 108.9 75.0 112.6



#33
1,2-Dichloroethane-d4
Concen: 55.052 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 65 Resp: 104495
Ion Ratio Lower Upper
65 100
67 51.2 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086030.D

Acq: 20 Mar 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

MW7

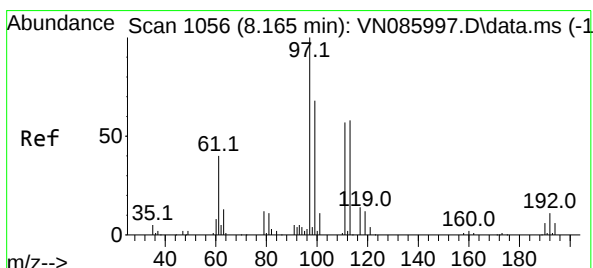
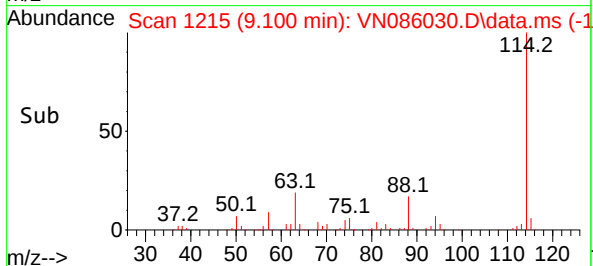
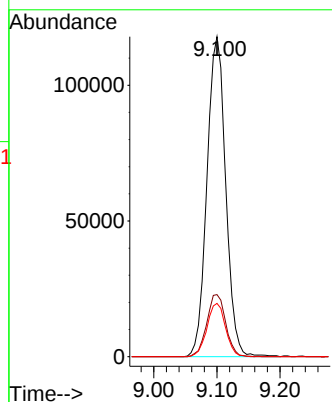
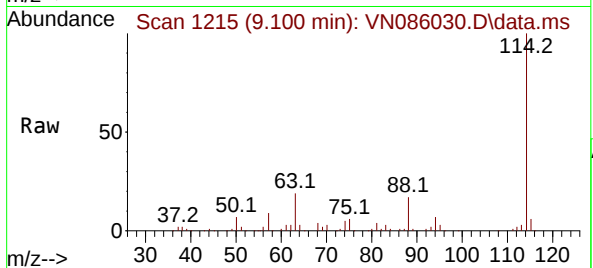
Tgt Ion:114 Resp: 242981

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.911 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086030.D

Acq: 20 Mar 2025 17:33

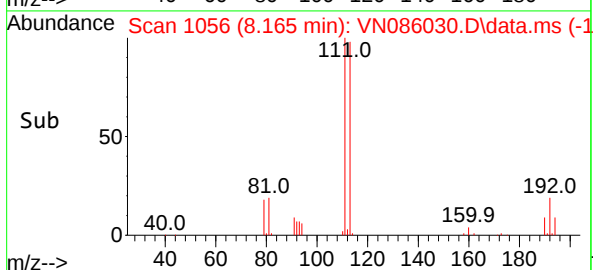
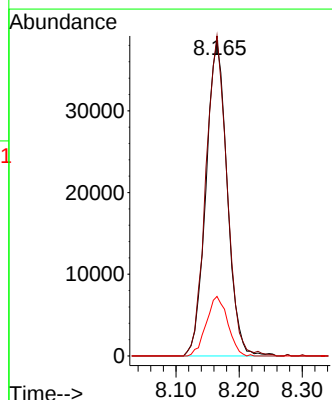
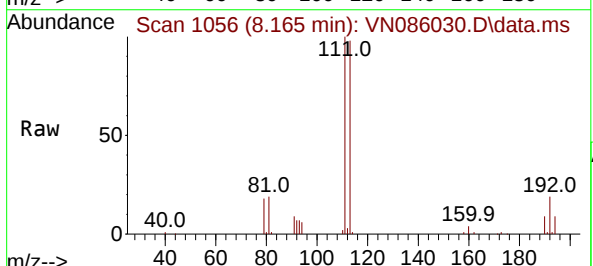
Tgt Ion:113 Resp: 89735

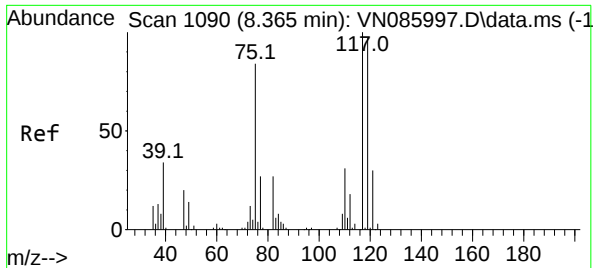
Ion Ratio Lower Upper

113 100

111 101.5 81.8 122.8

192 19.1 15.9 23.9

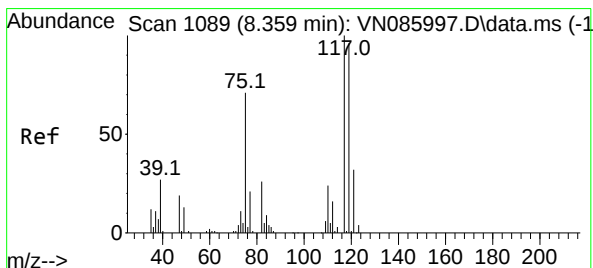
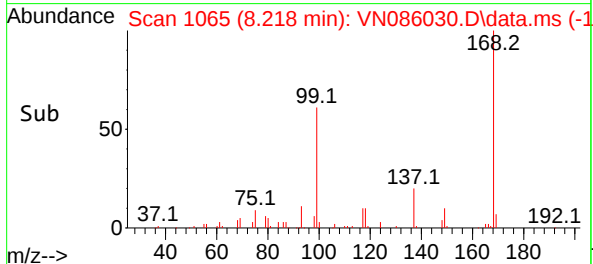
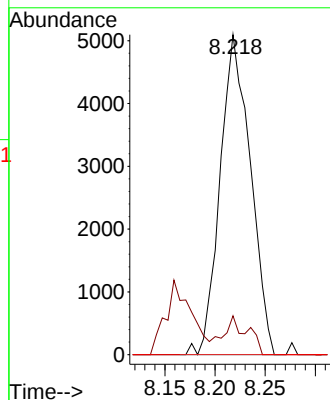
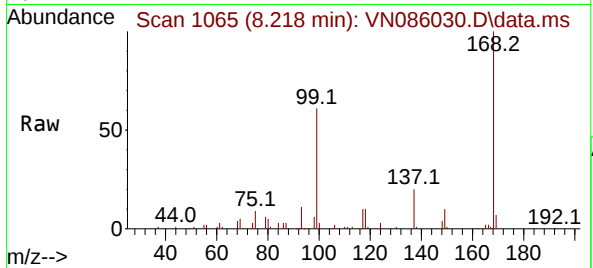




#36
1,1-Dichloropropene
Concen: 4.794 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

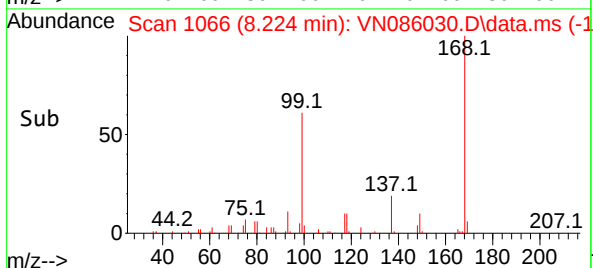
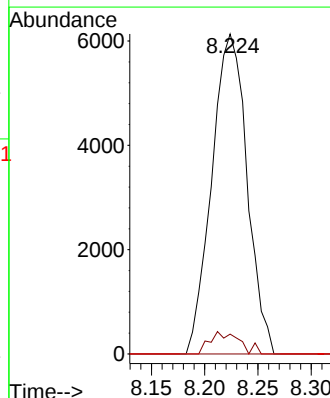
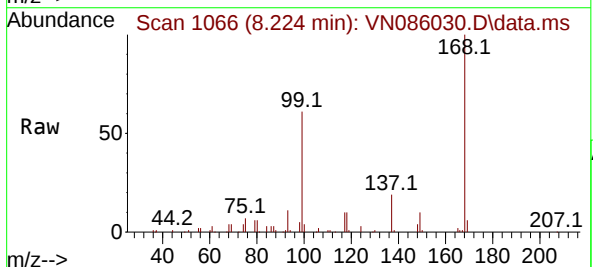
Instrument :
MSVOA_N
ClientSampleId :
MW7

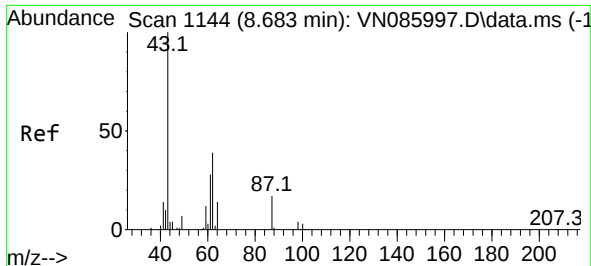
Tgt Ion: 75 Resp: 10706
Ion Ratio Lower Upper
75 100
110 7.9 17.8 53.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 4.814 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 117 Resp: 14135
Ion Ratio Lower Upper
117 100
119 6.2 77.0 115.4#
121 0.0 25.6 38.4#

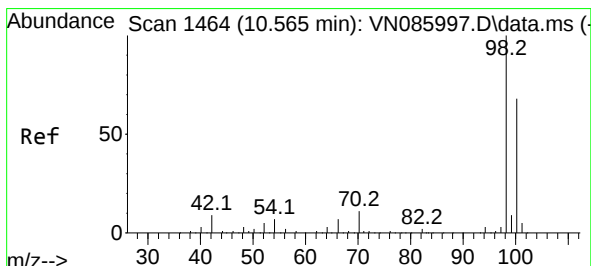
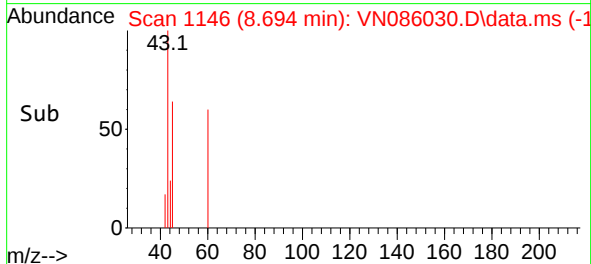
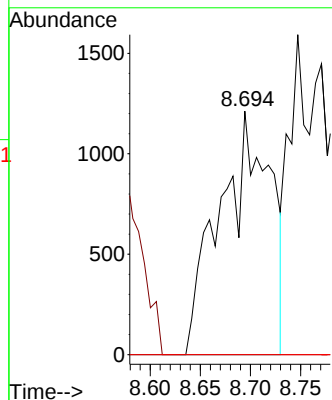
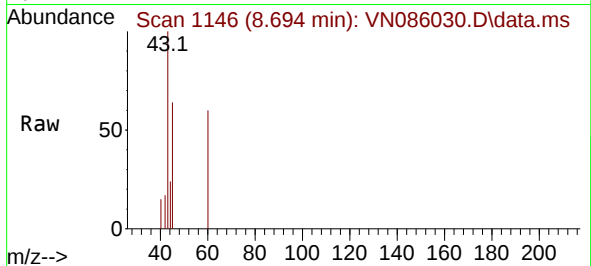




#43
Isopropyl Acetate
Concen: 1.042 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.012 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

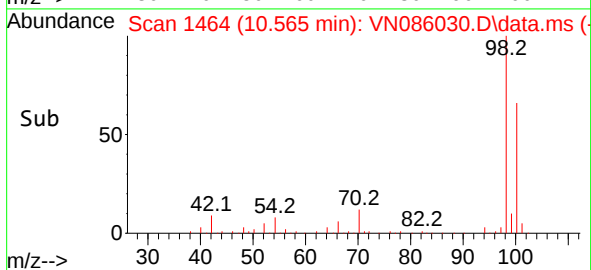
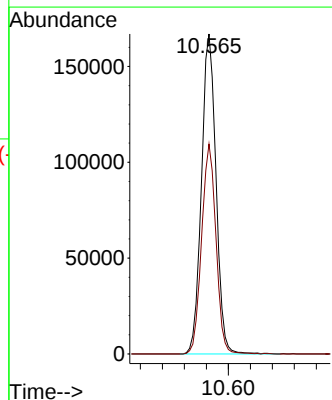
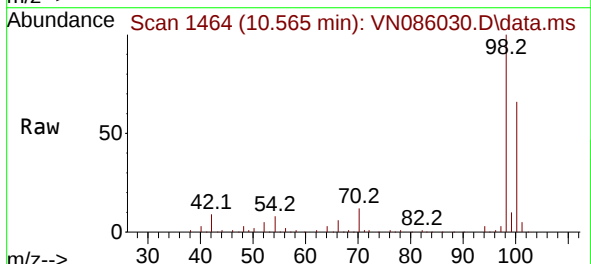
Instrument :
MSVOA_N
ClientSampleId :
MW7

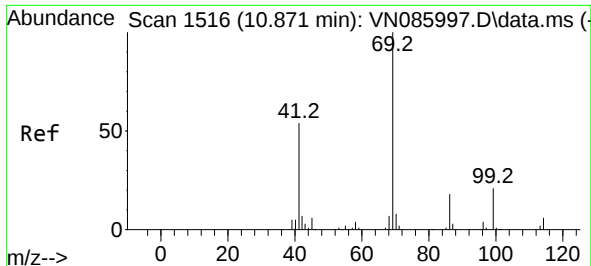
Tgt Ion: 43 Resp: 4256
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#50
Toluene-d8
Concen: 49.796 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 98 Resp: 306504
Ion Ratio Lower Upper
98 100
100 64.7 53.1 79.7

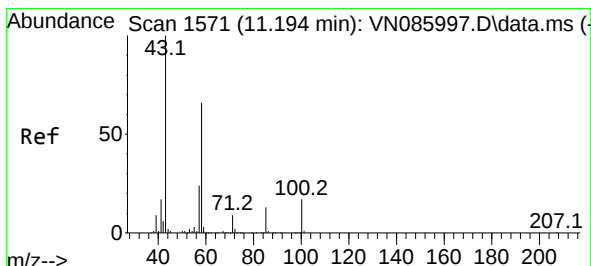
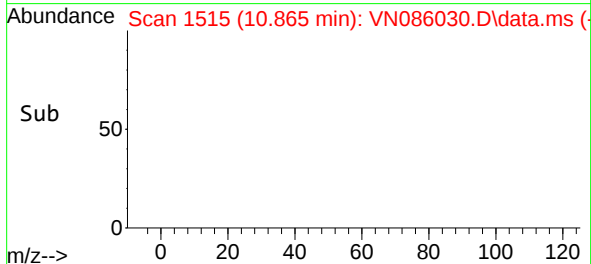
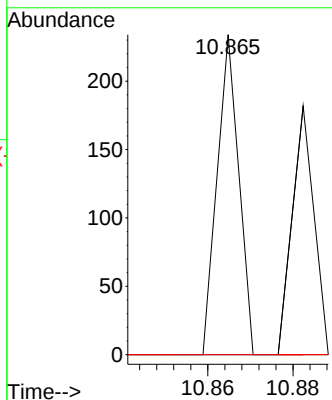
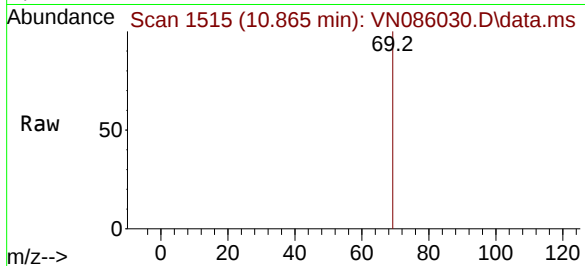




#56
Ethyl methacrylate
Concen: 0.227 ug/l
RT: 10.865 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

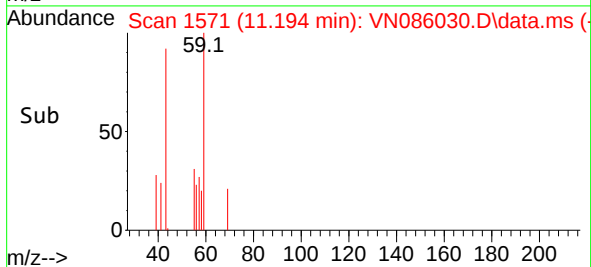
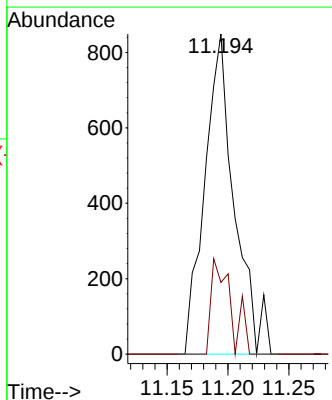
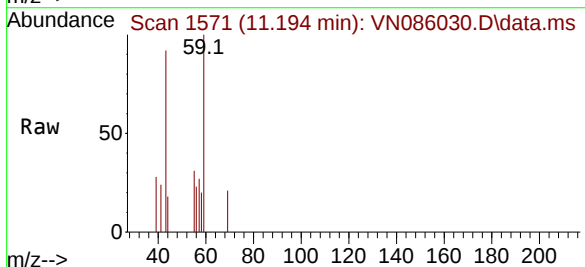
Instrument :
MSVOA_N
ClientSampleId :
MW7

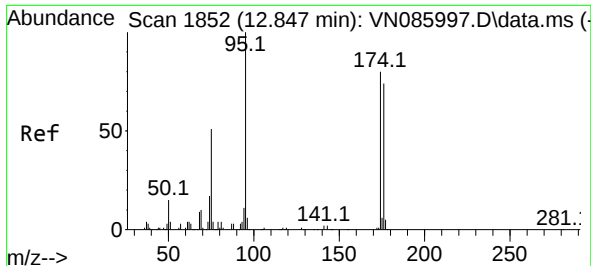
Tgt Ion:	69	Resp:	83
Ion	Ratio	Lower	Upper
69	100		
41	0.0	41.6	62.4#
39	0.0	21.8	32.8#



#59
2-Hexanone
Concen: 1.102 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion:	43	Resp:	1446
Ion	Ratio	Lower	Upper
43	100		
58	19.8	32.4	97.2#

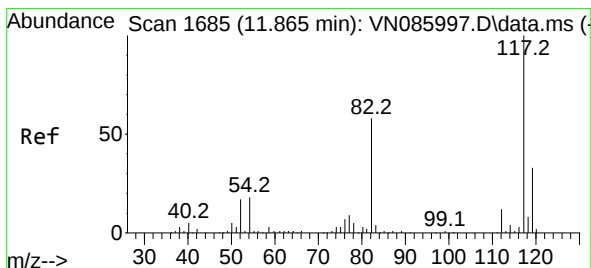
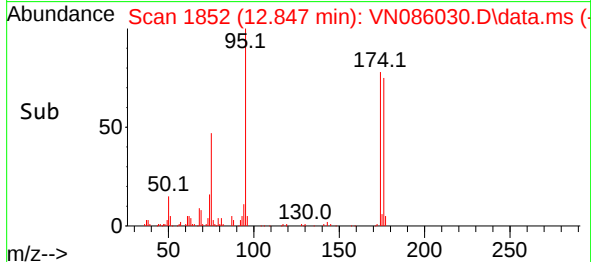
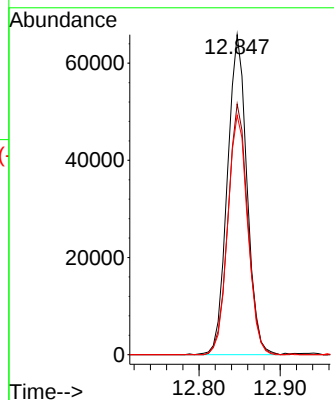
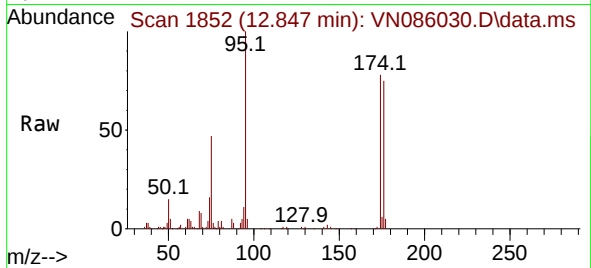




#62
4-Bromofluorobenzene
Concen: 50.150 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

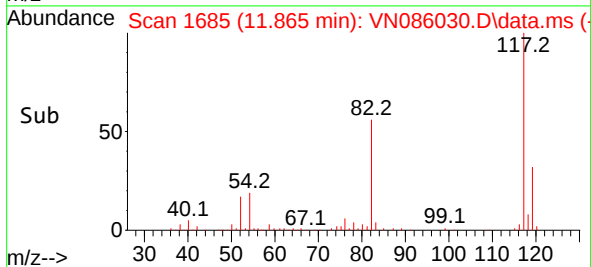
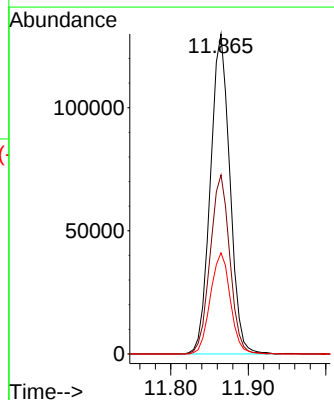
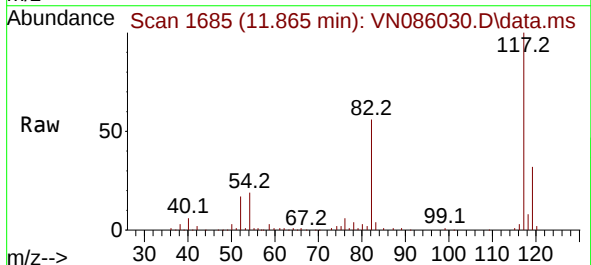
Instrument :
MSVOA_N
ClientSampleId :
MW7

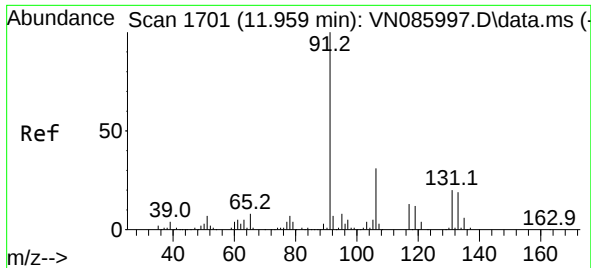
Tgt Ion: 95 Resp: 110086
Ion Ratio Lower Upper
95 100
174 79.2 0.0 156.8
176 76.0 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 117 Resp: 226759
Ion Ratio Lower Upper
117 100
82 56.0 46.7 70.1
119 31.6 26.5 39.7

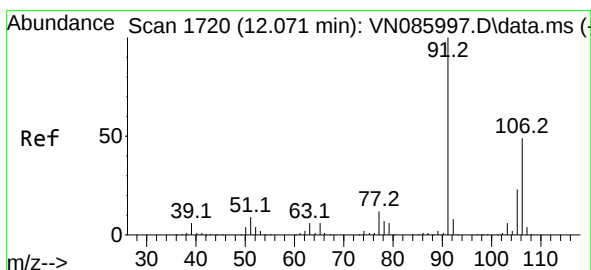
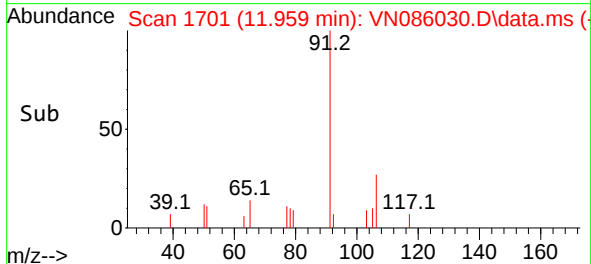
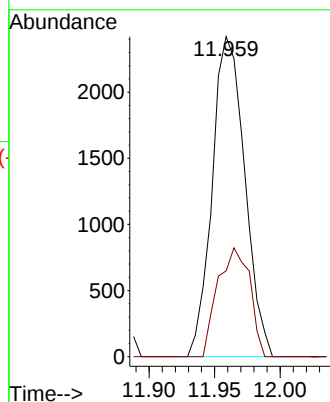
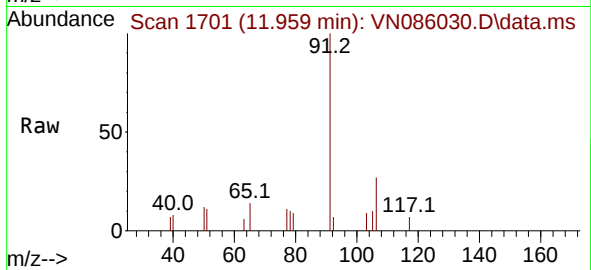




#67
Ethyl Benzene
Concen: 0.503 ug/l
RT: 11.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

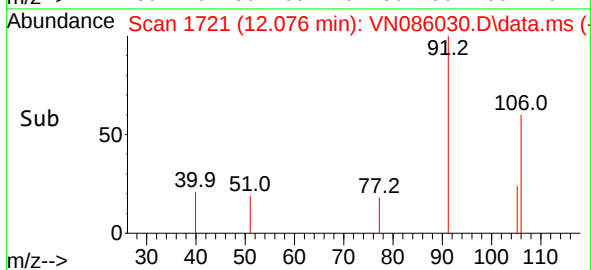
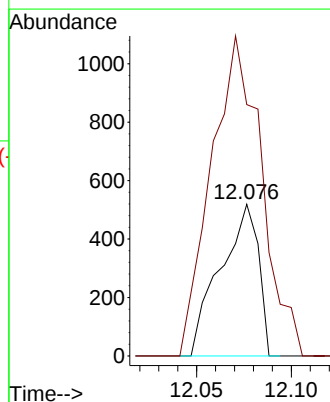
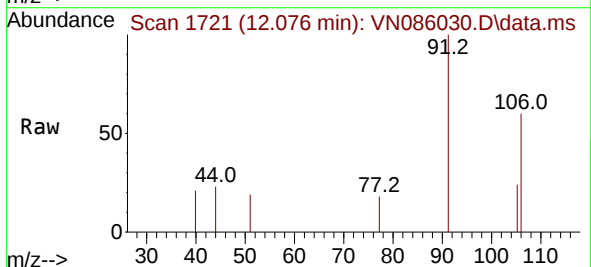
Instrument :
MSVOA_N
ClientSampleId :
MW7

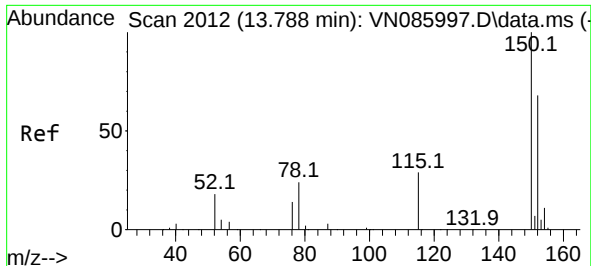
Tgt Ion: 91 Resp: 4176
Ion Ratio Lower Upper
91 100
106 26.8 24.5 36.7



#68
m/p-Xylenes
Concen: 0.222 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 106 Resp: 725
Ion Ratio Lower Upper
106 100
91 278.3 163.9 245.9#

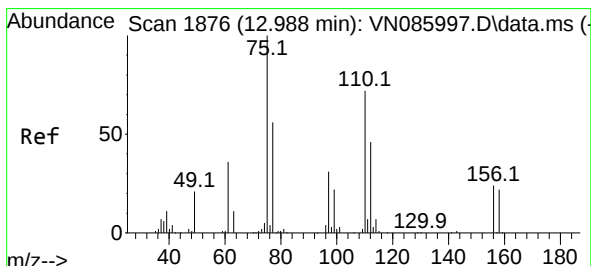
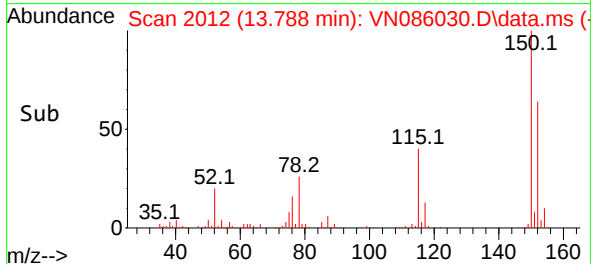
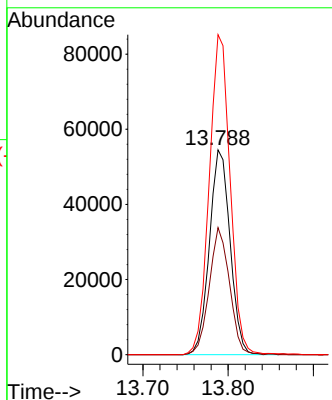
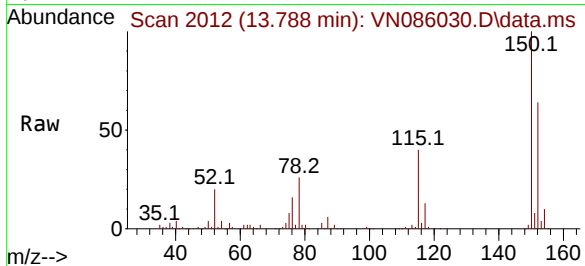




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086030.D
 Acq: 20 Mar 2025 17:33

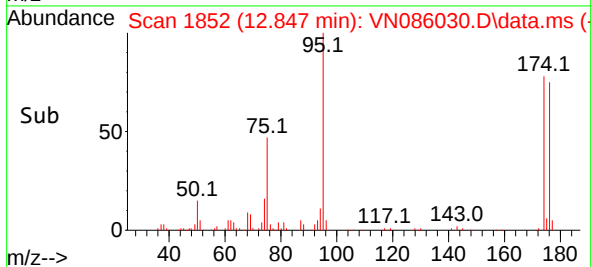
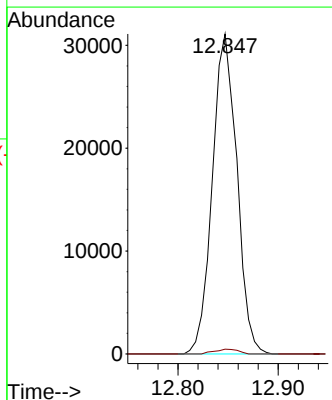
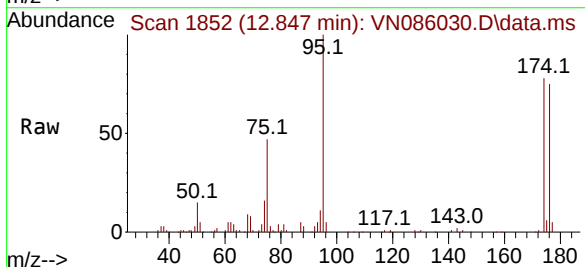
Instrument :
 MSVOA_N
 ClientSampleId :
 MW7

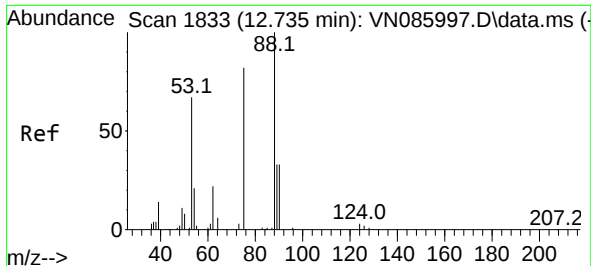
Tgt Ion:152 Resp: 92285
 Ion Ratio Lower Upper
 152 100
 115 60.6 31.1 93.2
 150 157.6 0.0 359.6



#76
 1,2,3-Trichloropropane
 Concen: 25.586 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086030.D
 Acq: 20 Mar 2025 17:33

Tgt Ion: 75 Resp: 52863
 Ion Ratio Lower Upper
 75 100
 77 1.4 83.7 251.0#

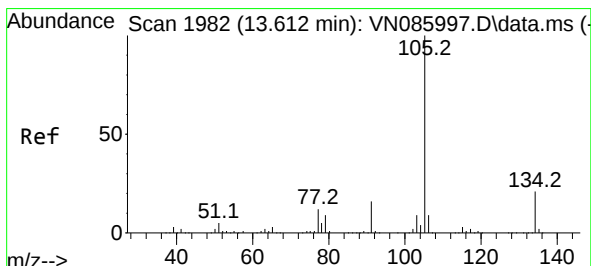
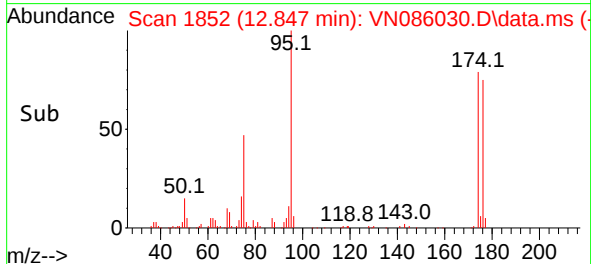
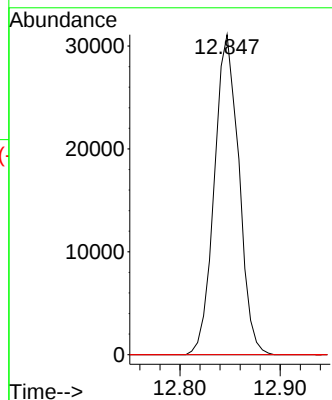
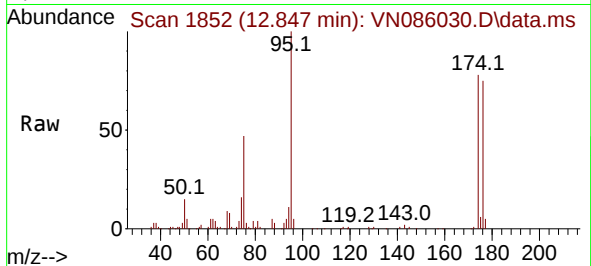




#81
trans-1,4-Dichloro-2-butene
Concen: 67.645 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

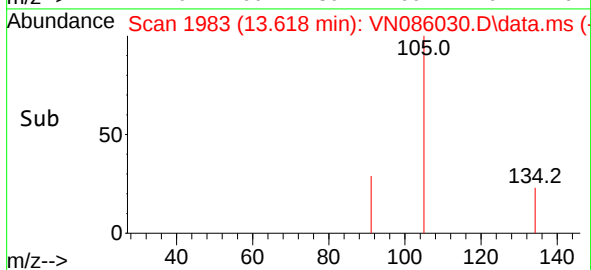
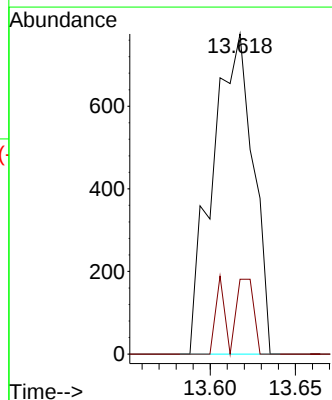
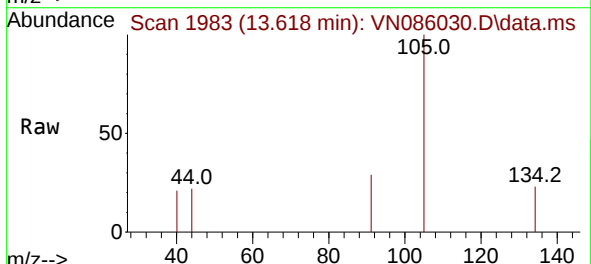
Instrument :
MSVOA_N
ClientSampleId :
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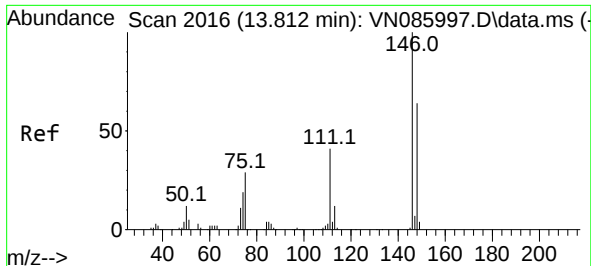
Tgt Ion: 75 Resp: 52863
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#85
sec-Butylbenzene
Concen: 0.217 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 105 Resp: 1291
Ion Ratio Lower Upper
105 100
134 15.1 10.1 30.1

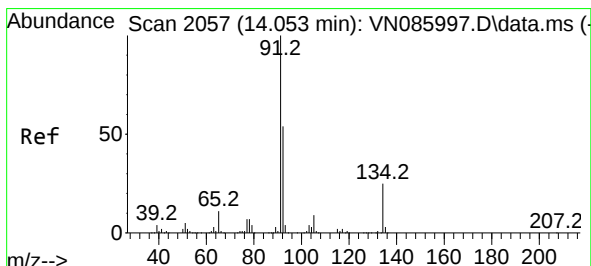
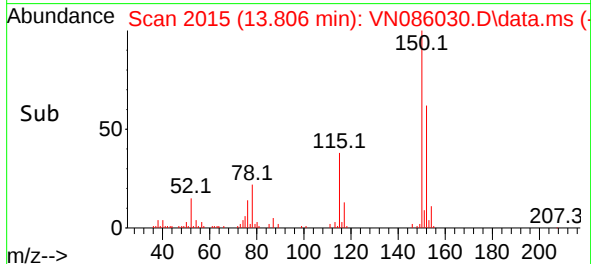
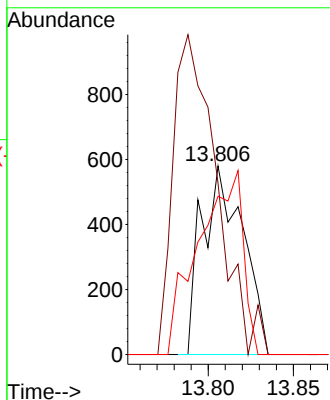
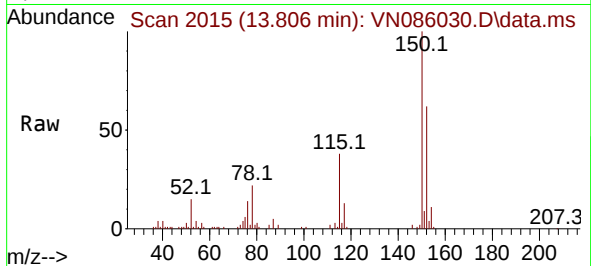




#88
1,4-Dichlorobenzene
Concen: 0.293 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

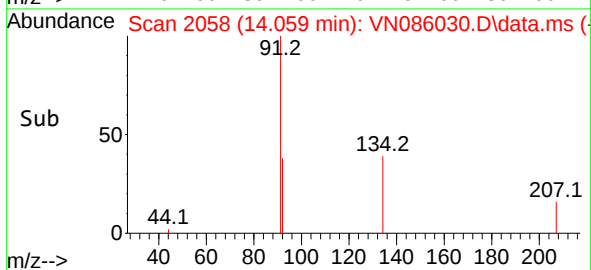
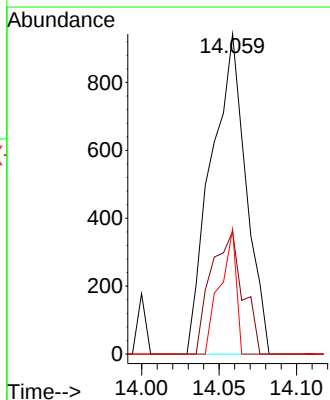
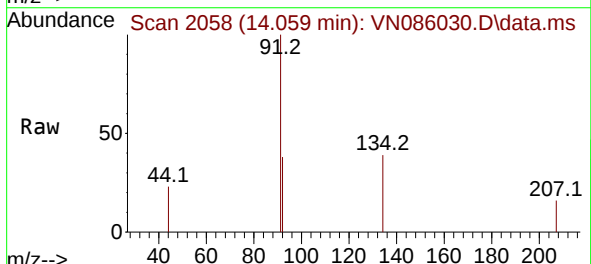
Instrument :
MSVOA_N
ClientSampleId :
MW7

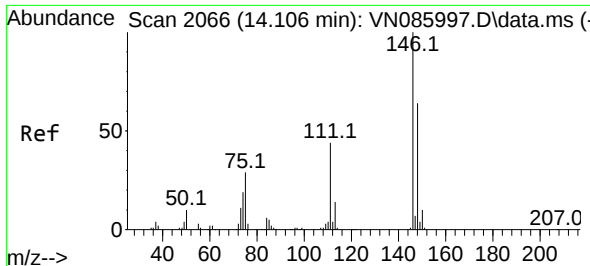
Tgt Ion:146 Resp: 974
Ion Ratio Lower Upper
146 100
111 0.0 20.4 61.3#
148 105.1 32.1 96.5#



#89
n-Butylbenzene
Concen: 0.360 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Tgt Ion: 91 Resp: 1473
Ion Ratio Lower Upper
91 100
92 35.0 26.9 80.6
134 18.2 13.0 39.0





#91

1,2-Dichlorobenzene

Concen: 0.208 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN086030.D

Acq: 20 Mar 2025 17:33

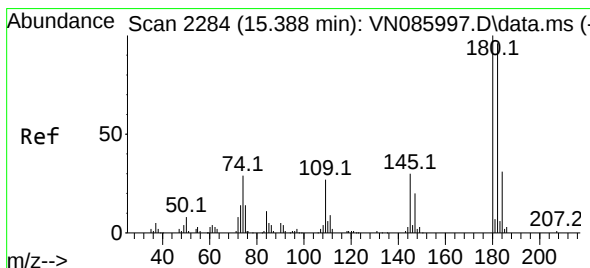
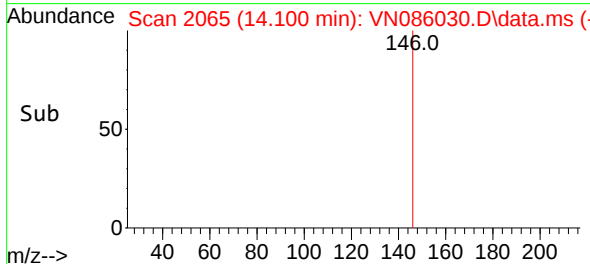
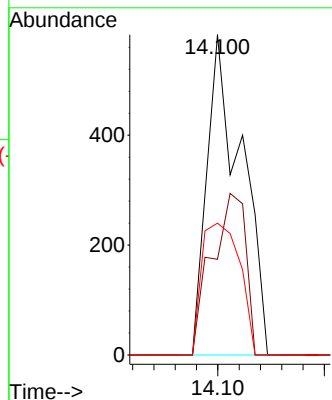
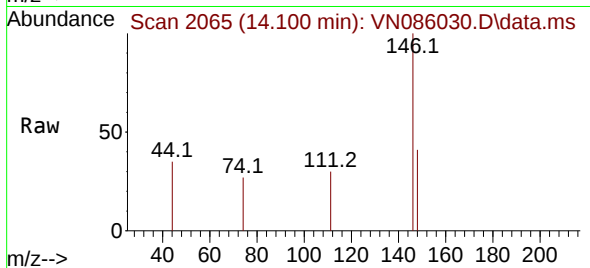
Instrument :

MSVOA_N

ClientSampleId :

MW7

Tgt Ion:146	Resp:	656
Ion	Ratio	Lower Upper
146	100	
111	49.5	22.3 66.8
148	45.3	32.1 96.5



#93

1,2,4-Trichlorobenzene

Concen: 0.732 ug/l

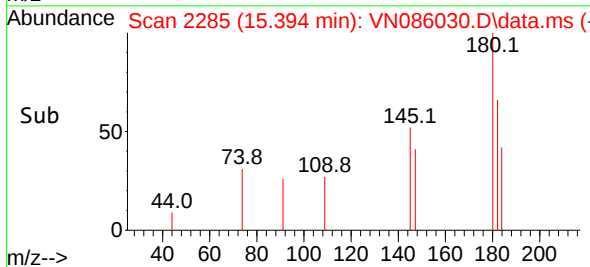
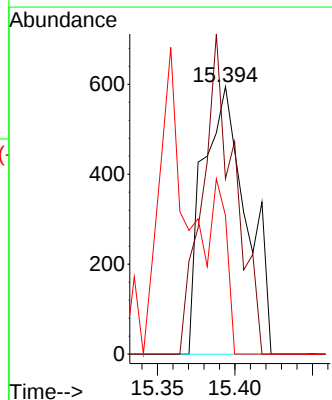
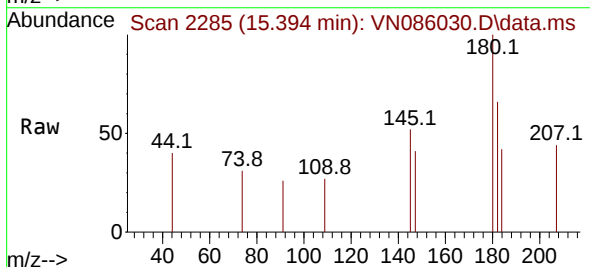
RT: 15.394 min Scan# 2285

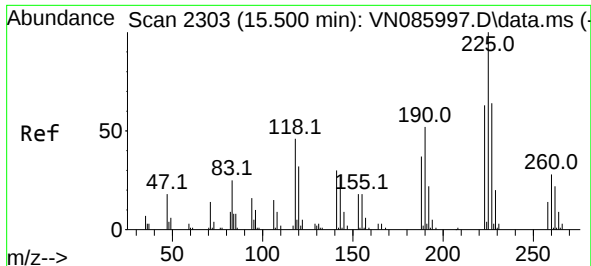
Delta R.T. 0.006 min

Lab File: VN086030.D

Acq: 20 Mar 2025 17:33

Tgt Ion:180	Resp:	1159
Ion	Ratio	Lower Upper
180	100	
182	88.3	47.0 141.0
145	0.0	15.5 46.5#

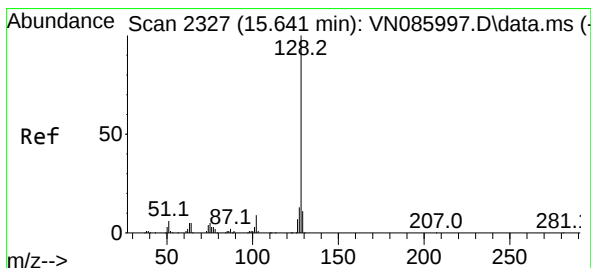
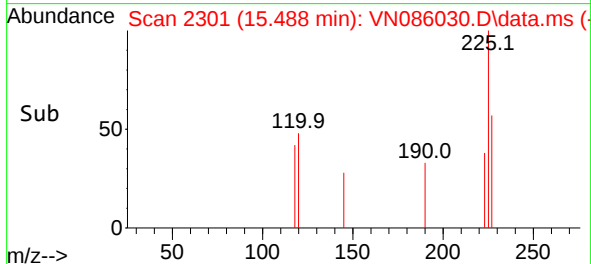
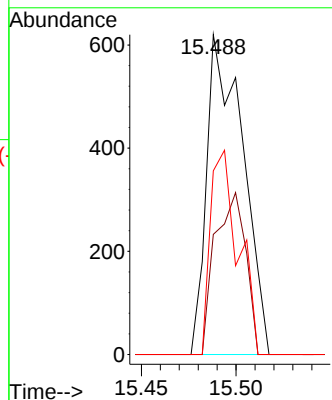
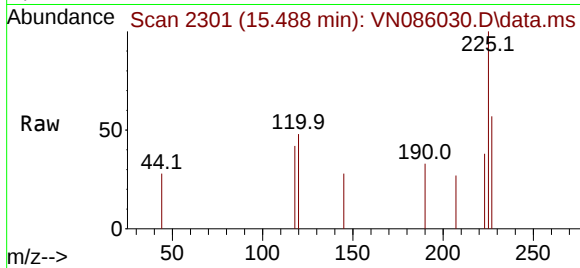




#94
Hexachlorobutadiene
Concen: 0.895 ug/l
RT: 15.488 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

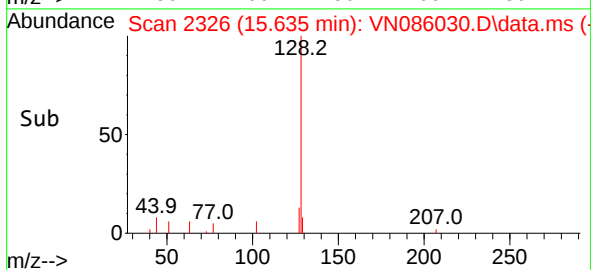
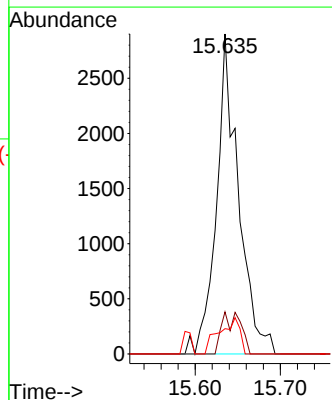
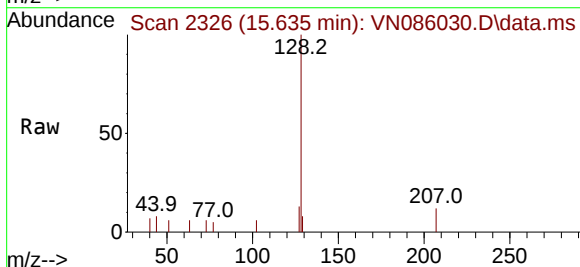
Instrument :
MSVOA_N
ClientSampleId :
MW7

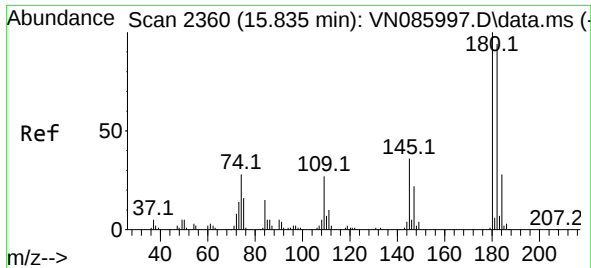
Tgt Ion:225	Resp:	822
Ion	Ratio	Lower Upper
225	100	
223	42.7	31.3 93.9
227	49.1	32.1 96.3



#95
Naphthalene
Concen: 1.138 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

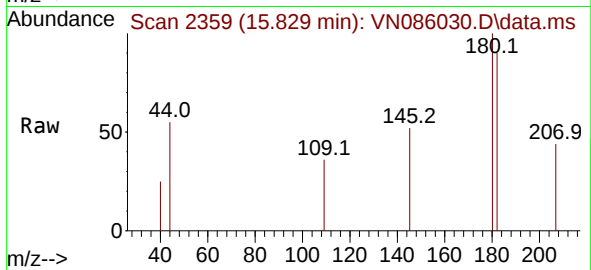
Tgt Ion:128	Resp:	5217
Ion	Ratio	Lower Upper
128	100	
127	5.5	10.2 15.4#
129	10.6	9.0 13.6





#96
1,2,3-Trichlorobenzene
Concen: 0.803 ug/l
RT: 15.829 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086030.D
Acq: 20 Mar 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
MW7



Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.5	47.5	142.5
145	62.7	17.7	53.1#

