

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085706.D
 Acq On : 07 Feb 2025 19:05
 Operator : JC\MD
 Sample : PB166592ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:35:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

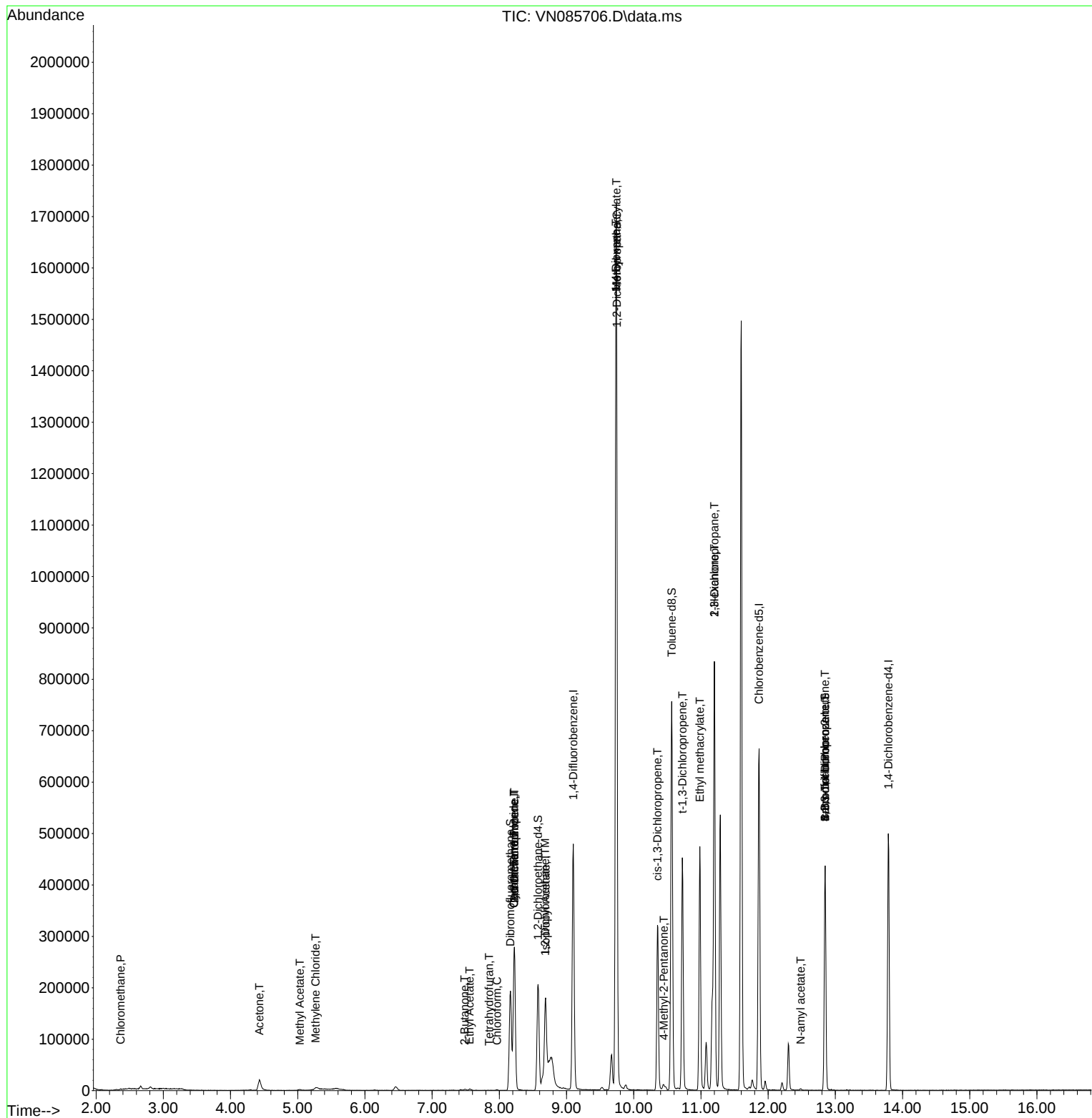
Internal Standards						
1) Pentafluorobenzene	8.224	168	194745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	399542	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	380182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	134825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	171218	54.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.940%			
35) Dibromofluoromethane	8.165	113	140234	50.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.180%			
50) Toluene-d8	10.565	98	523281	53.134	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	149260	44.306	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.620%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	629	0.220	ug/l #	41
16) Acetone	4.430	43	38139	37.549	ug/l	94
18) Methyl Acetate	5.030	43	3989	1.292	ug/l #	77
20) Methylene Chloride	5.265	84	3379	1.344	ug/l #	73
25) 2-Butanone	7.483	43	3837	2.567	ug/l	97
29) Tetrahydrofuran	7.847	42	211	0.223	ug/l #	34
30) Chloroform	7.965	83	1448	0.305	ug/l #	69
31) Cyclohexane	8.218	56	4655	1.167	ug/l #	3
36) 1,1-Dichloropropene	8.224	75	17825	4.582	ug/l #	49
37) Ethyl Acetate	7.559	43	4188	1.067	ug/l #	89
38) Carbon Tetrachloride	8.218	117	20986	4.712	ug/l #	19
42) 1,2-Dichloroethane	8.683	62	1207	0.274	ug/l #	76
43) Isopropyl Acetate	8.688	43	226366	35.978	ug/l #	83
45) 1,2-Dichloropropane	9.747	63	1926	0.645	ug/l #	43
48) Methyl methacrylate	9.741	41	162228	57.295	ug/l #	46
49) 1,4-Dioxane	9.735	88	131	2.747	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	5933	1.625	ug/l #	80
53) t-1,3-Dichloropropene	10.724	75	1280	0.309	ug/l	91
54) cis-1,3-Dichloropropene	10.353	75	55922	12.622	ug/l #	67
56) Ethyl methacrylate	10.982	69	3177	2.608	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	8470	1.817	ug/l #	43
59) 2-Hexanone	11.200	43	113002	43.987	ug/l #	55
71) Bromoform	12.847	173	1403	0.641	ug/l #	28
74) N-amyl acetate	12.482	43	1431	0.350	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	78813	28.760	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78813	77.813	ug/l #	3

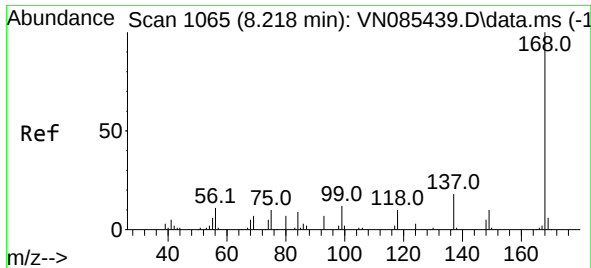
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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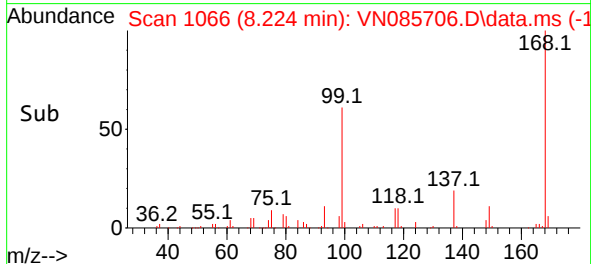
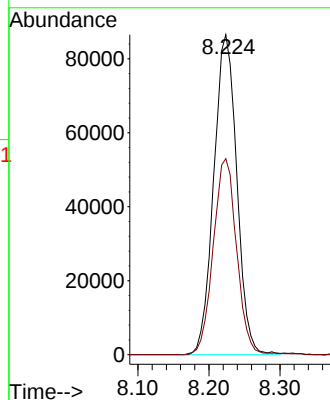
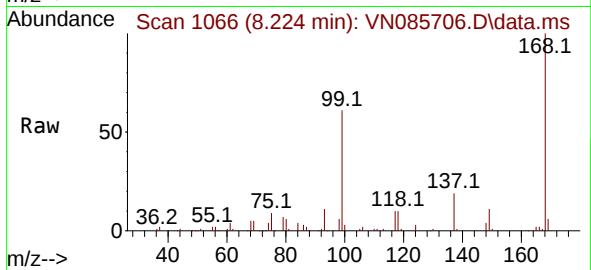




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

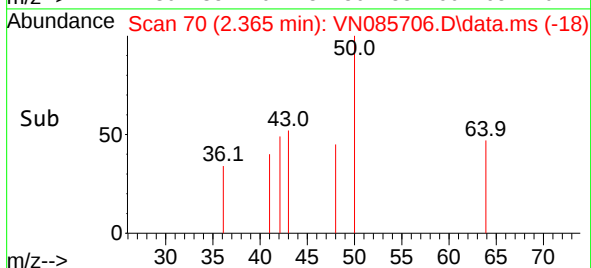
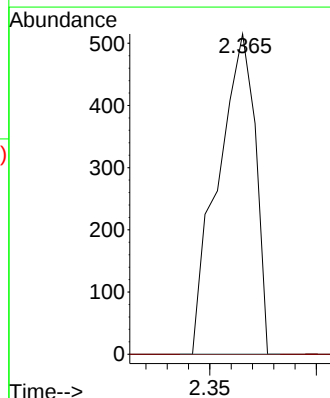
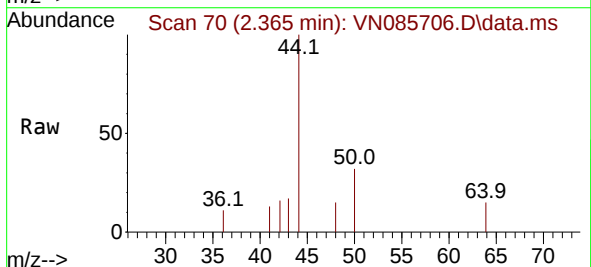
Instrument :
MSVOA_N
ClientSampleId :

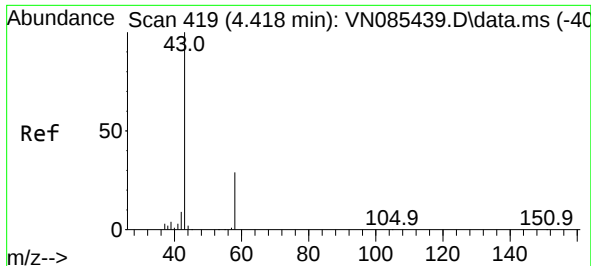
Tgt Ion:168 Resp: 194745
Ion Ratio Lower Upper
168 100
99 61.3 53.6 80.4



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 50 Resp: 629
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

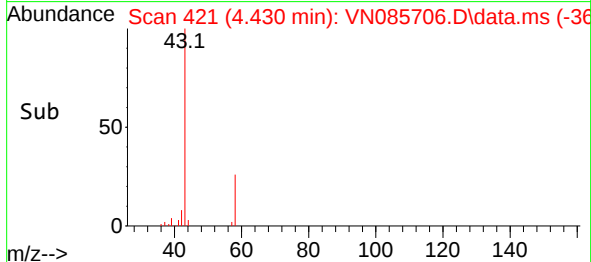
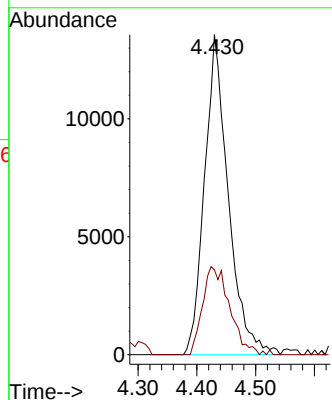
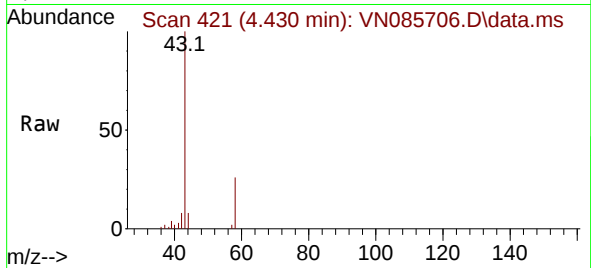




#16
Acetone
Concen: 37.549 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

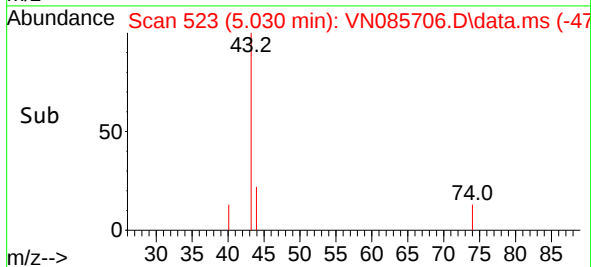
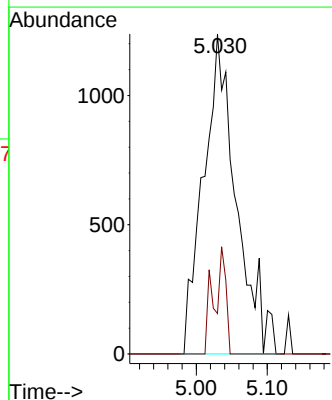
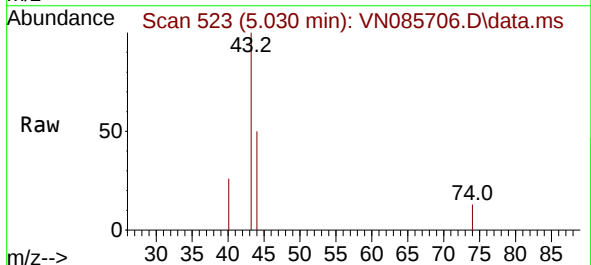
Instrument :
MSVOA_N
ClientSampleId :

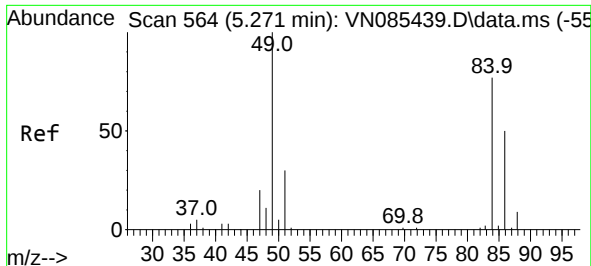
Tgt Ion: 43 Resp: 38139
Ion Ratio Lower Upper
43 100
58 26.5 23.8 35.6



#18
Methyl Acetate
Concen: 1.292 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

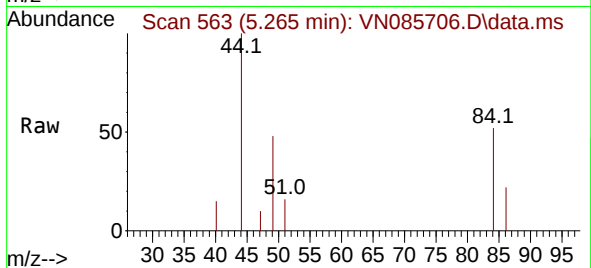
Tgt Ion: 43 Resp: 3989
Ion Ratio Lower Upper
43 100
74 12.0 18.6 28.0#





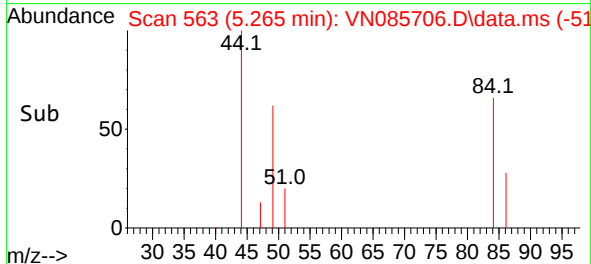
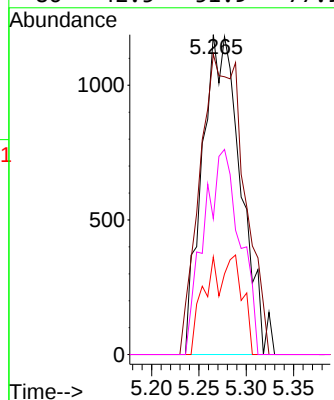
#20
Methylene Chloride
Concen: 1.344 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 3379

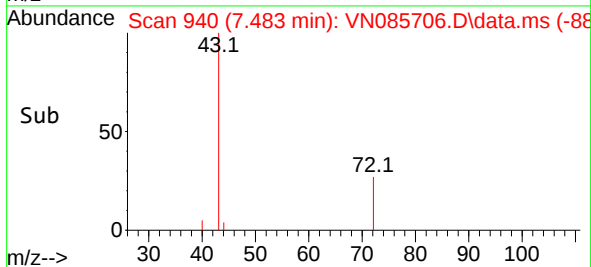
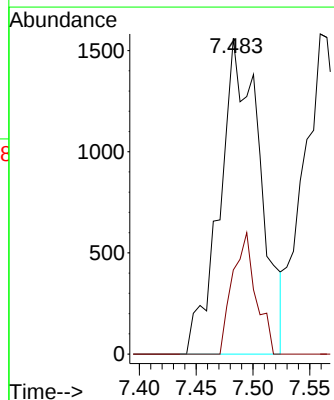
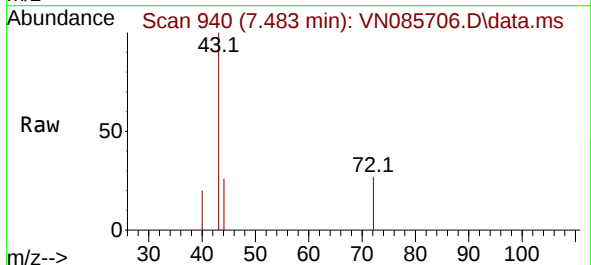
Ion	Ratio	Lower	Upper
84	100		
49	93.9	104.1	156.1#
51	30.6	31.0	46.4#
86	42.5	51.9	77.9#

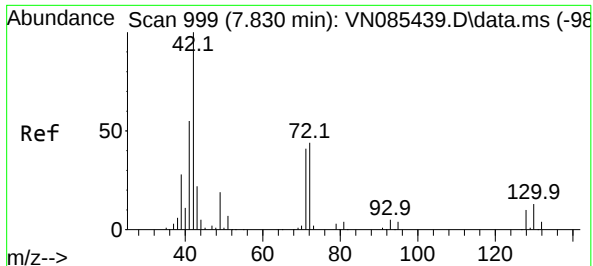


#25
2-Butanone
Concen: 2.567 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 43 Resp: 3837

Ion	Ratio	Lower	Upper
43	100		
72	26.7	20.2	30.4





#29

Tetrahydrofuran

Concen: 0.223 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.018 min

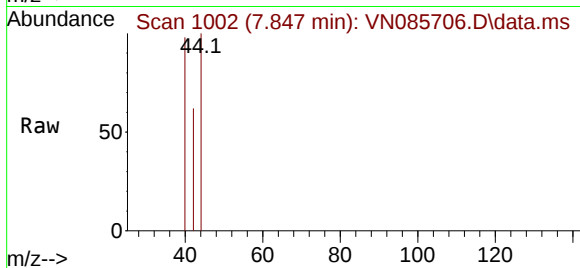
Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

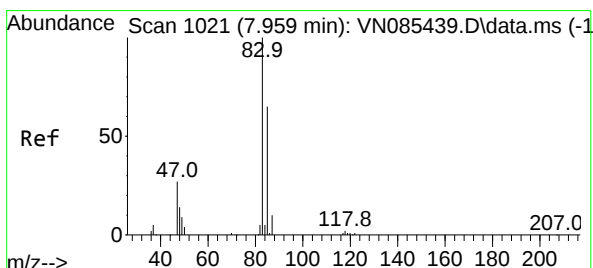
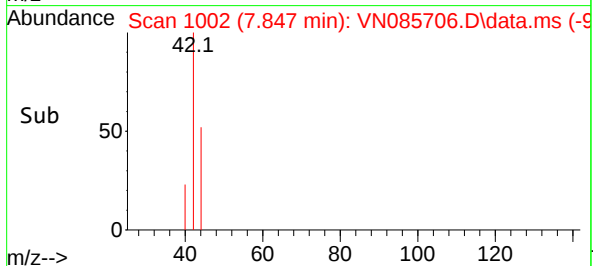
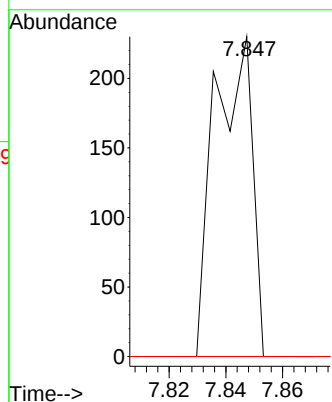
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	211
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	0.0	32.5	48.7#



#30

Chloroform

Concen: 0.305 ug/l

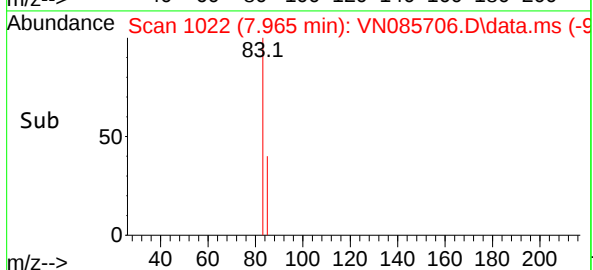
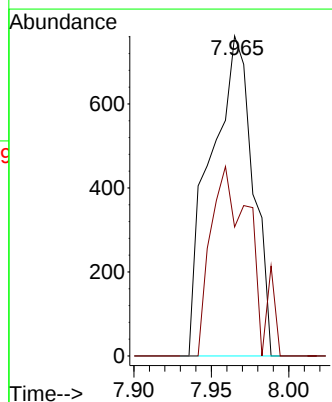
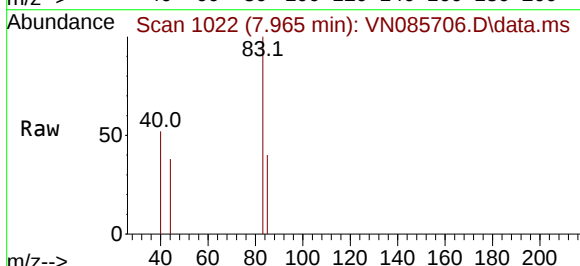
RT: 7.965 min Scan# 1022

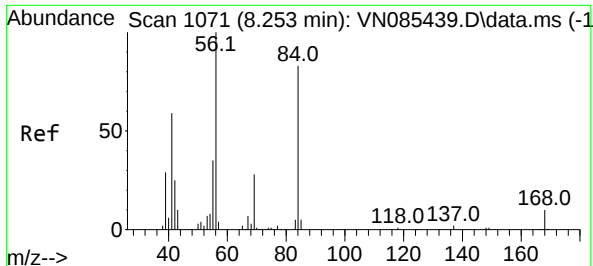
Delta R.T. 0.006 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

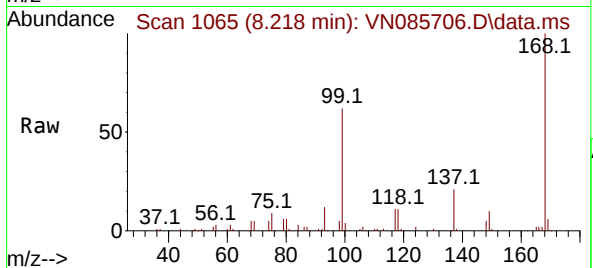
Tgt Ion:	83	Resp:	1448
Ion	Ratio	Lower	Upper
83	100		
85	40.3	51.8	77.6#



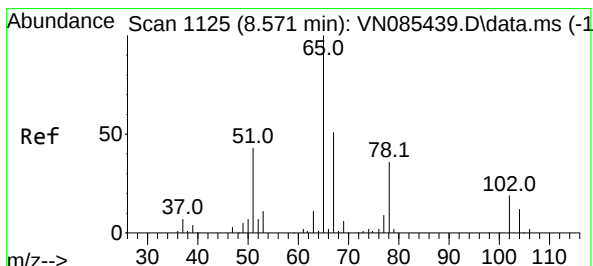
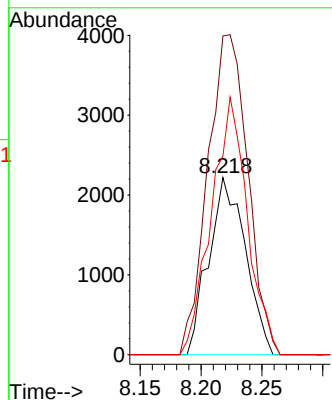
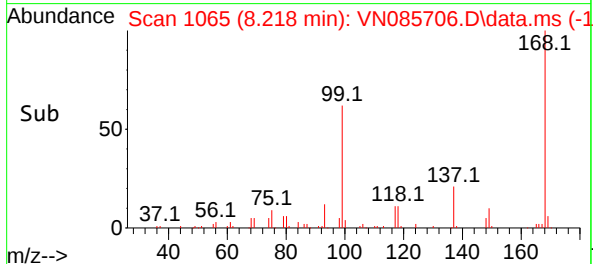


#31
Cyclohexane
Concen: 1.167 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

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MSVOA_N
ClientSampleId :

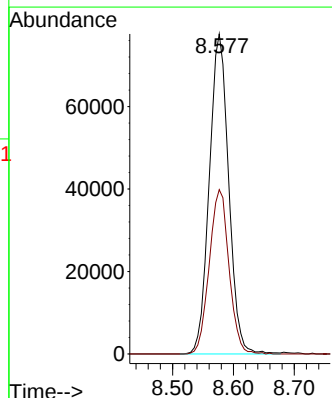
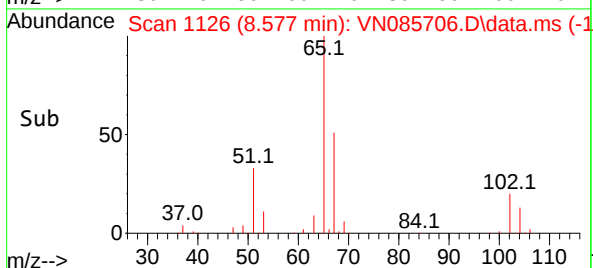
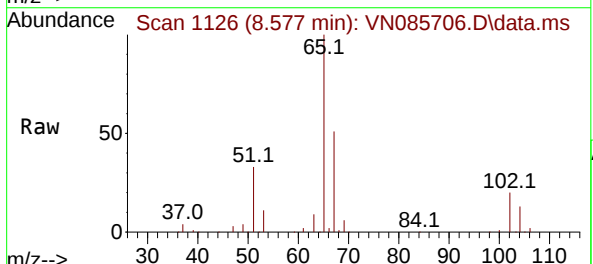


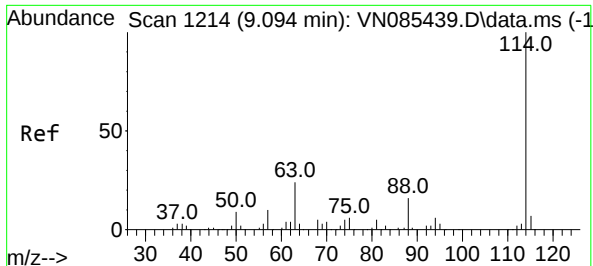
Tgt Ion: 56 Resp: 4655
Ion Ratio Lower Upper
56 100
69 179.9 22.2 33.4#
84 112.2 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 54.466 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 65 Resp: 171218
Ion Ratio Lower Upper
65 100
67 52.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

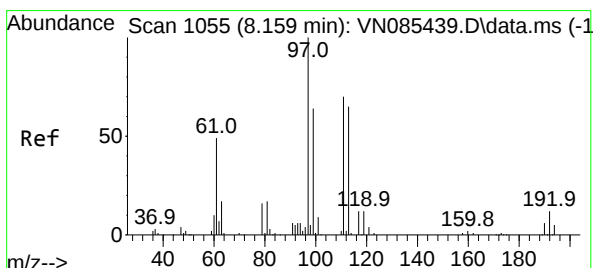
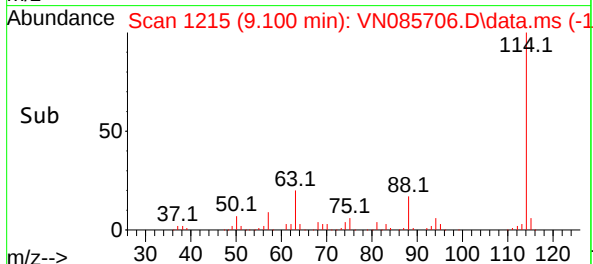
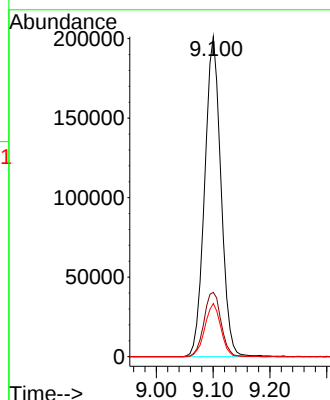
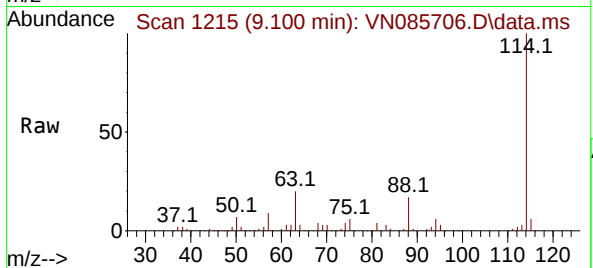
Tgt Ion:114 Resp: 399542

Ion Ratio Lower Upper

114 100

63 20.1 0.0 47.6

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.592 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

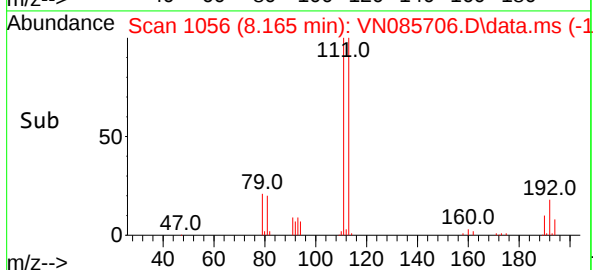
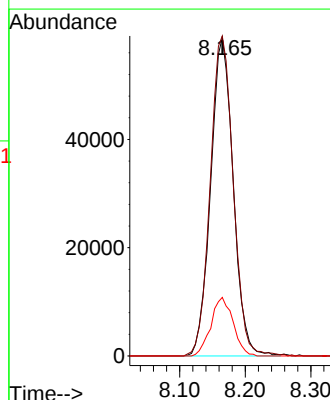
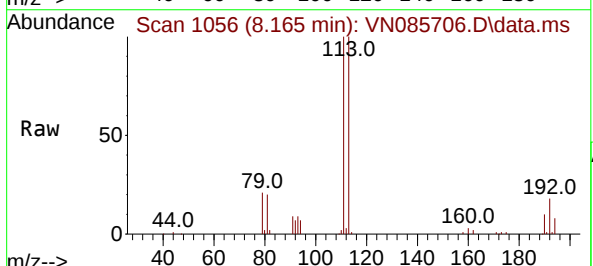
Tgt Ion:113 Resp: 140234

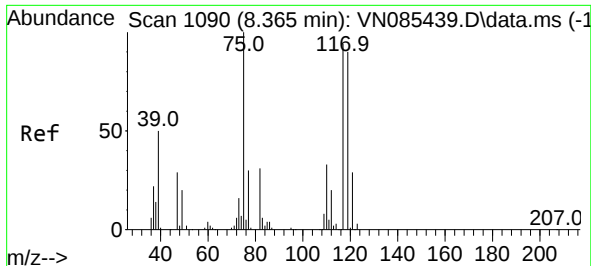
Ion Ratio Lower Upper

113 100

111 102.6 82.7 124.1

192 18.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.582 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

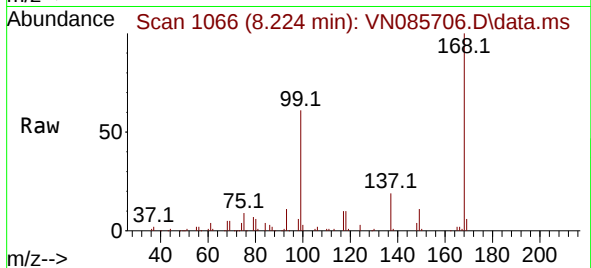
Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :



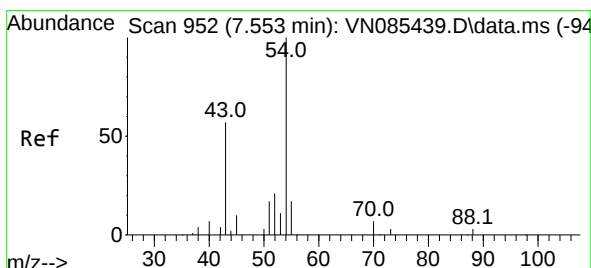
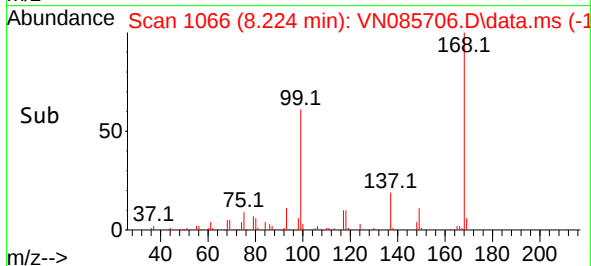
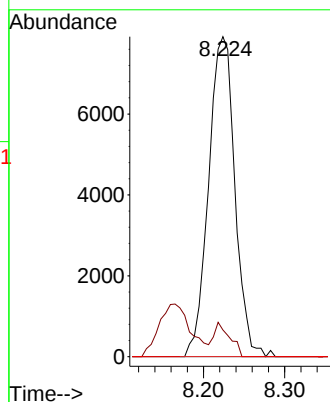
Tgt Ion: 75 Resp: 17825

Ion Ratio Lower Upper

75 100

110 6.5 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.067 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

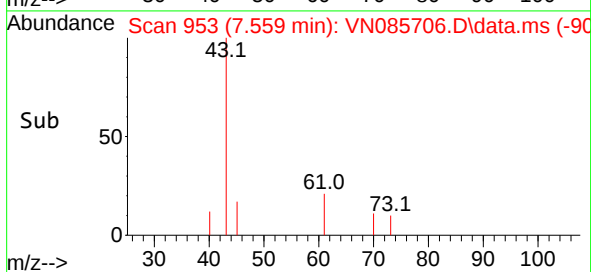
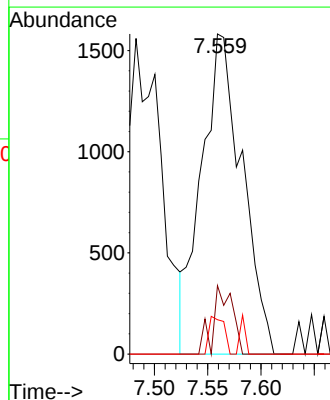
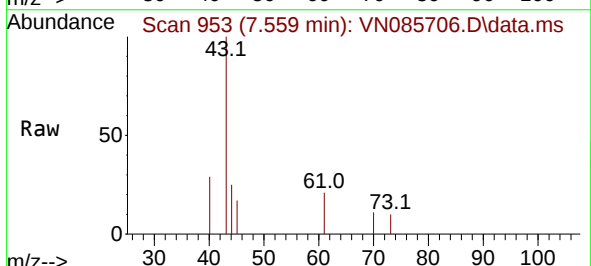
Tgt Ion: 43 Resp: 4188

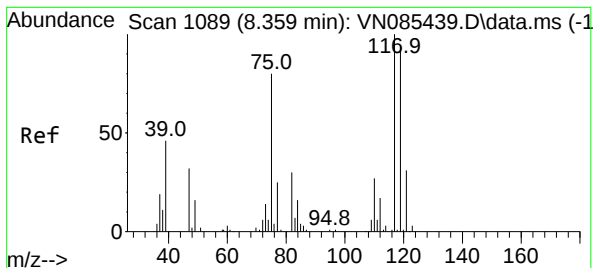
Ion Ratio Lower Upper

43 100

61 10.2 10.9 16.3#

70 4.4 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 4.712 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

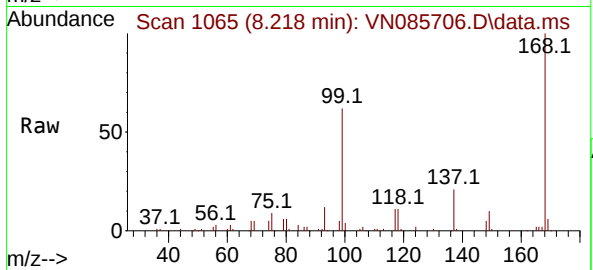
Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :



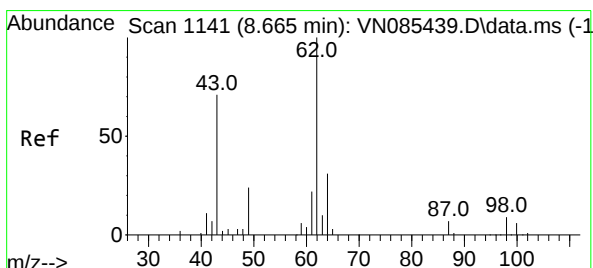
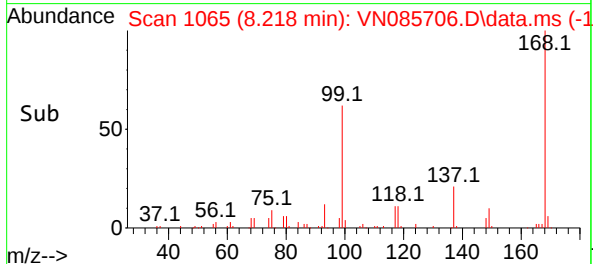
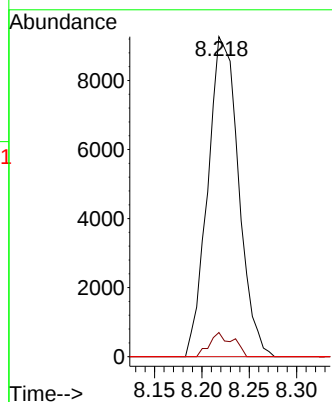
Tgt Ion:117 Resp: 20986

Ion Ratio Lower Upper

117 100

119 7.5 75.4 113.2#

121 0.0 24.6 37.0#



#42

1,2-Dichloroethane

Concen: 0.274 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085706.D

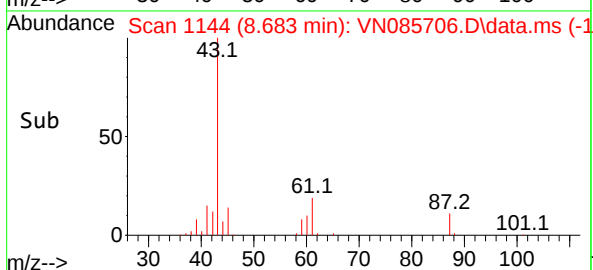
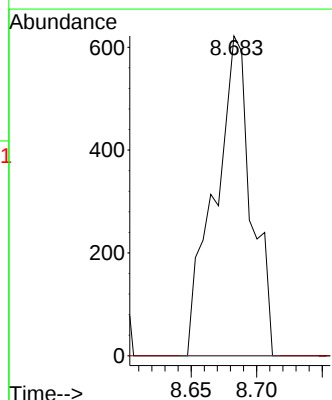
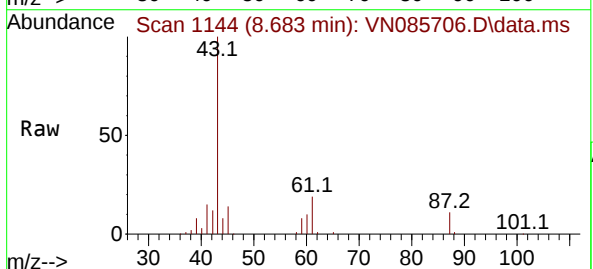
Acq: 07 Feb 2025 19:05

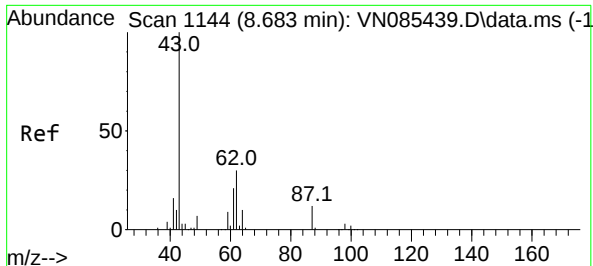
Tgt Ion: 62 Resp: 1207

Ion Ratio Lower Upper

62 100

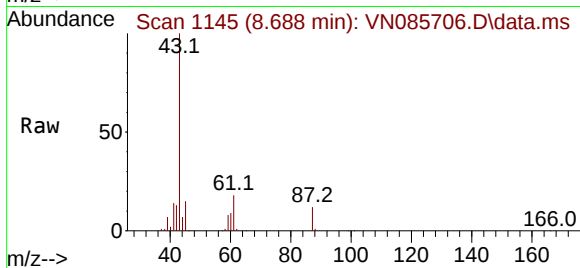
98 0.0 0.0 17.0



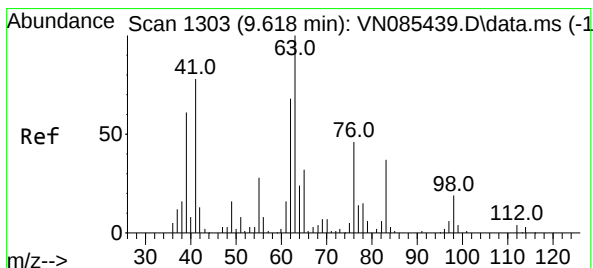
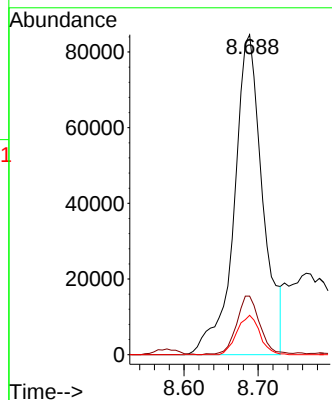
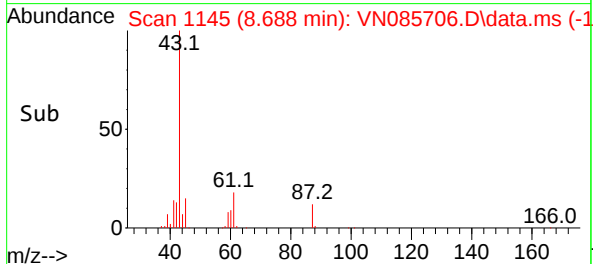


#43
Isopropyl Acetate
Concen: 35.978 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Instrument :
MSVOA_N
ClientSampleId :

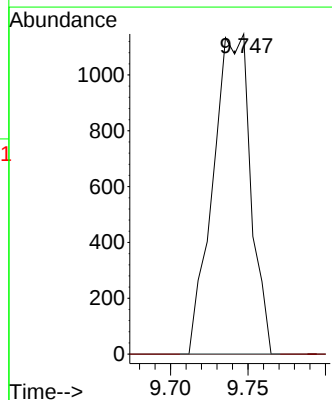
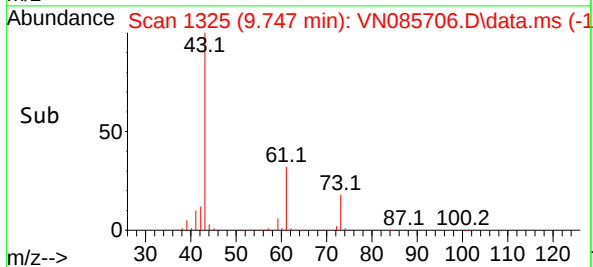
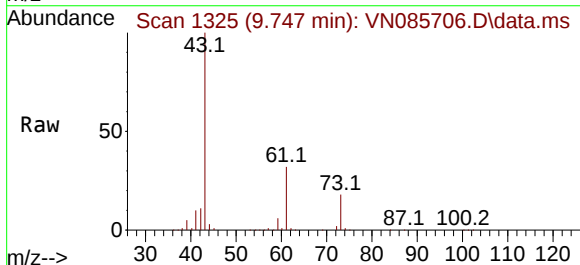


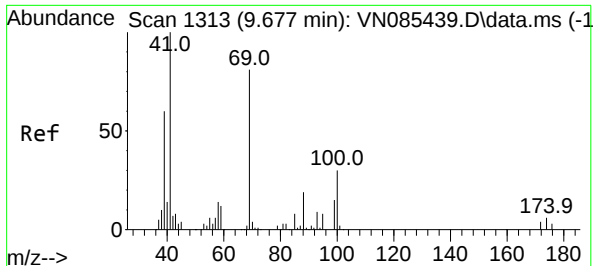
Tgt Ion: 43 Resp: 226366
Ion Ratio Lower Upper
43 100
61 15.0 20.7 31.1#
87 9.8 9.8 14.8#



#45
1,2-Dichloropropane
Concen: 0.645 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.129 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 63 Resp: 1926
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#





#48

Methyl methacrylate

Concen: 57.295 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.064 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

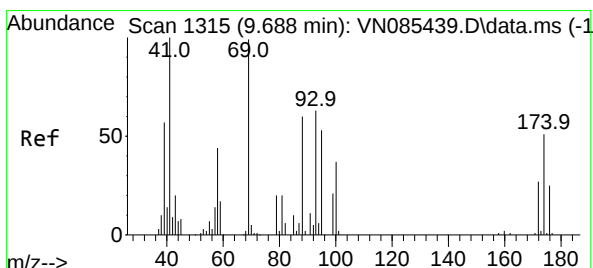
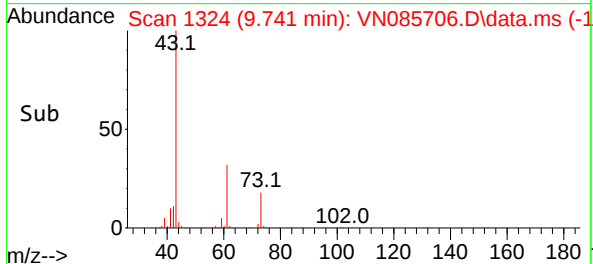
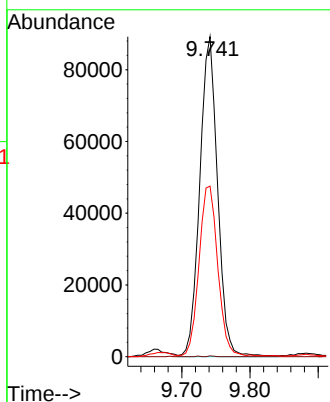
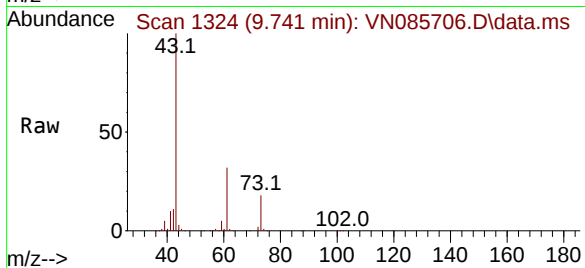
Tgt Ion: 41 Resp: 162228

Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 56.8 49.0 73.6



#49

1,4-Dioxane

Concen: 2.747 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.047 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

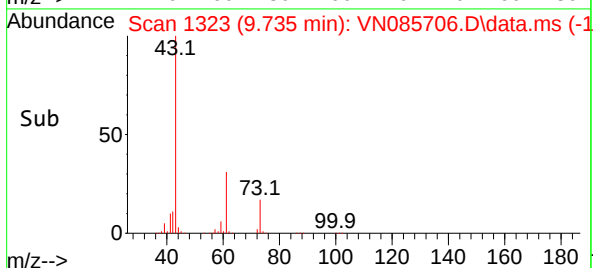
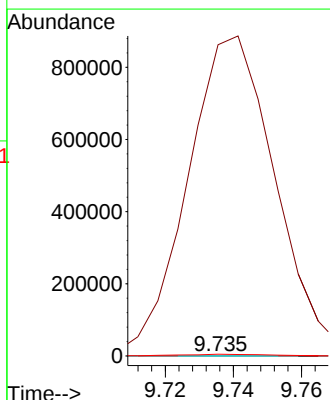
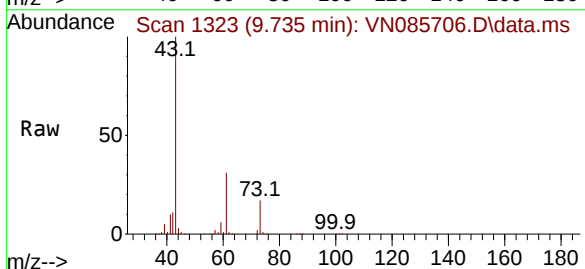
Tgt Ion: 88 Resp: 131

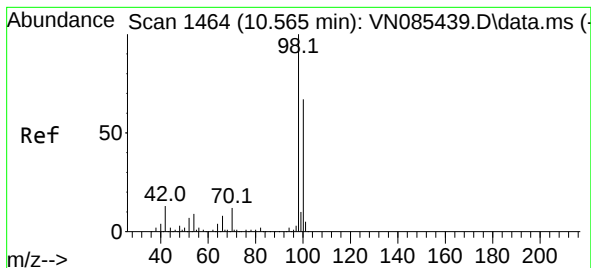
Ion Ratio Lower Upper

88 100

43 1221965.6 26.6 39.8#

58 7131.3 59.5 89.3#





#50

Toluene-d8

Concen: 53.134 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

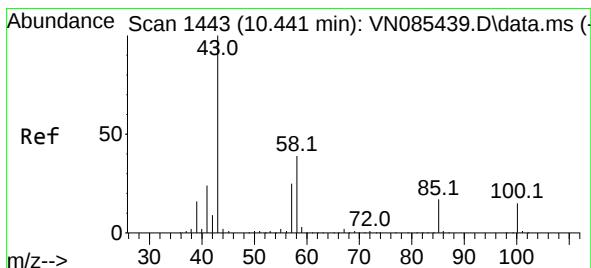
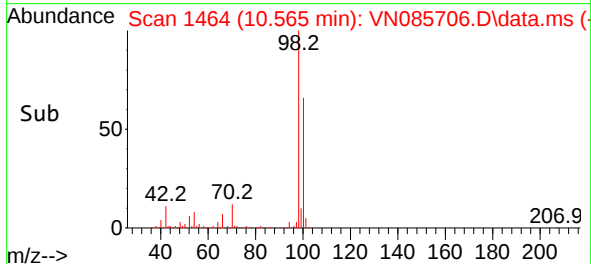
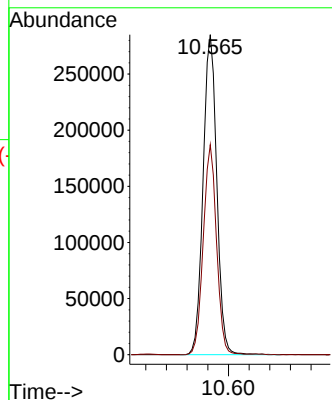
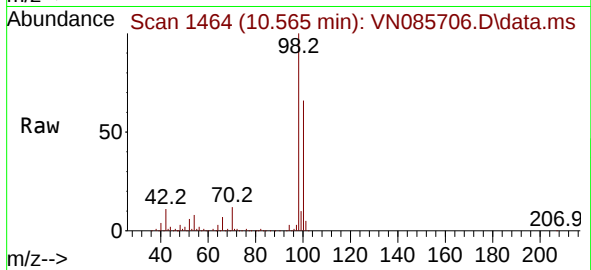
ClientSampleId :

Tgt Ion: 98 Resp: 523281

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 1.625 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN085706.D

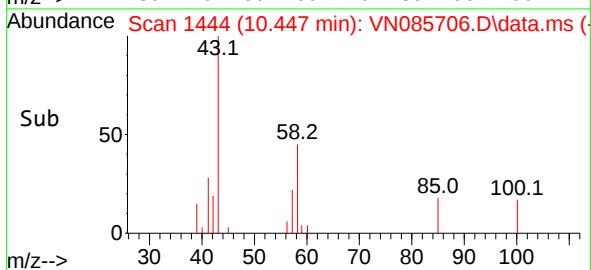
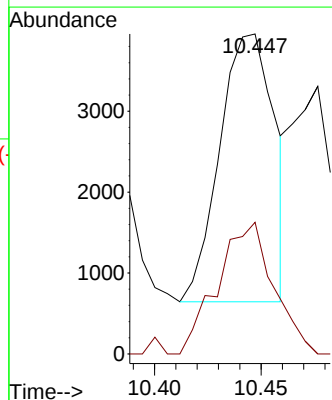
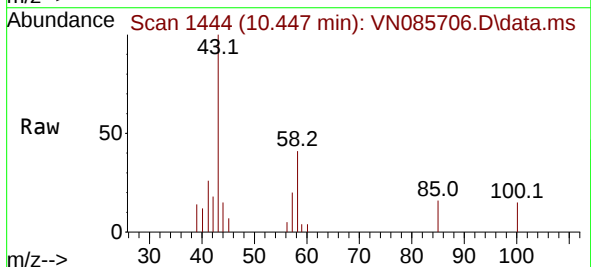
Acq: 07 Feb 2025 19:05

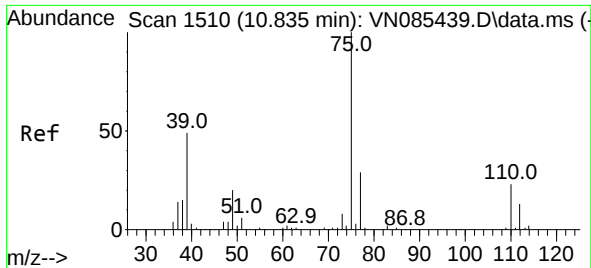
Tgt Ion: 43 Resp: 5933

Ion Ratio Lower Upper

43 100

58 50.1 30.5 45.7#

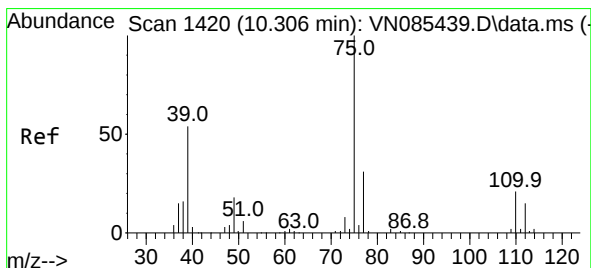
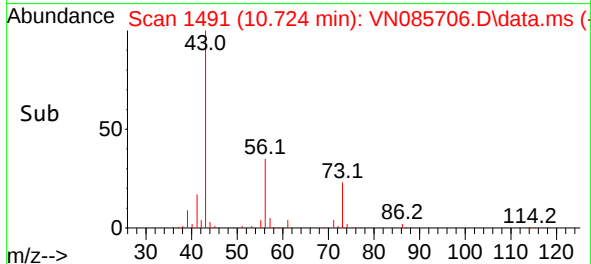
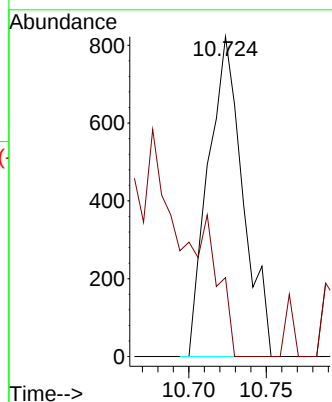
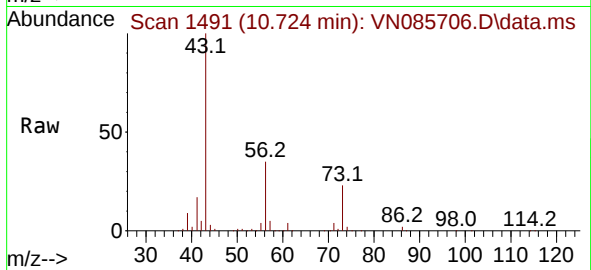




#53
 t-1,3-Dichloropropene
 Concen: 0.309 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.112 min
 Lab File: VN085706.D
 Acq: 07 Feb 2025 19:05

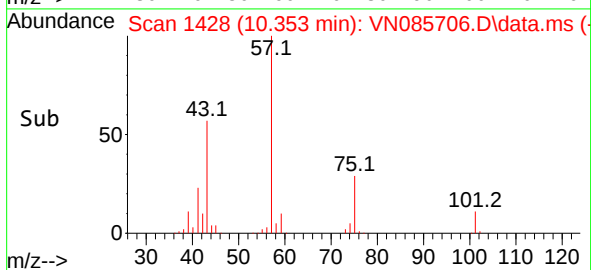
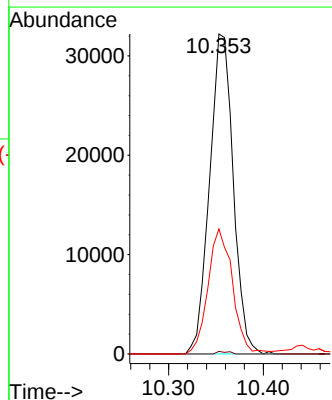
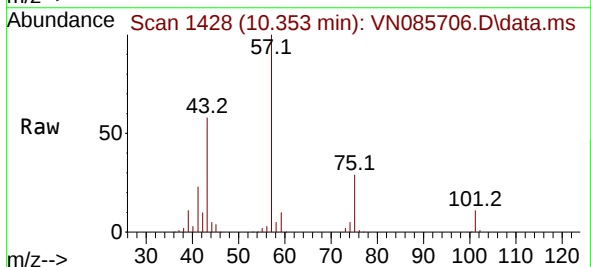
Instrument :
 MSVOA_N
 ClientSampleId :

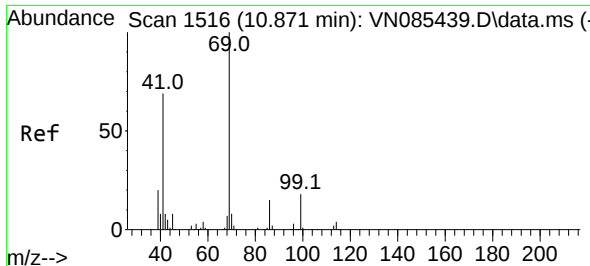
Tgt Ion: 75 Resp: 1280
 Ion Ratio Lower Upper
 75 100
 77 24.7 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 12.622 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085706.D
 Acq: 07 Feb 2025 19:05

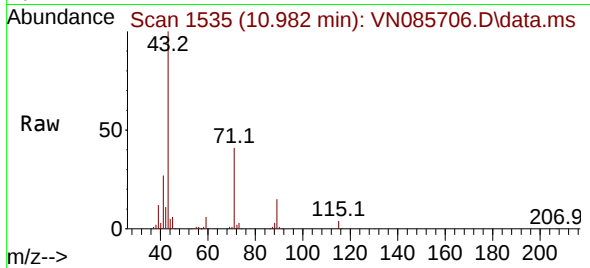
Tgt Ion: 75 Resp: 55922
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.4#
 39 39.1 43.1 64.7#



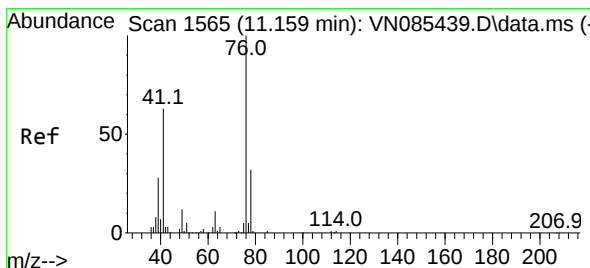
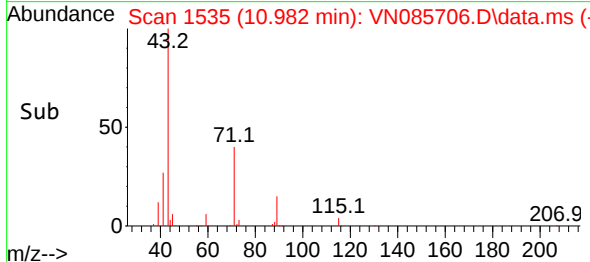
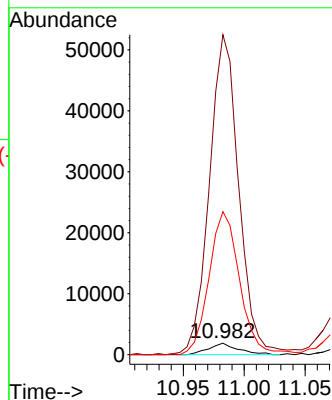


#56
Ethyl methacrylate
Concen: 2.608 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Instrument :
MSVOA_N
ClientSampleId :

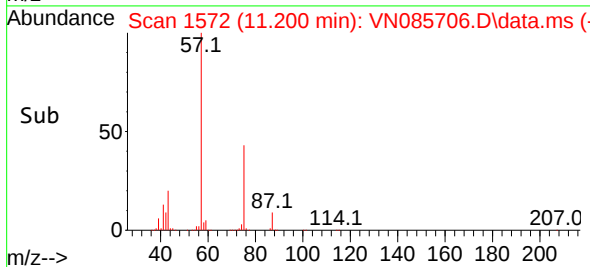
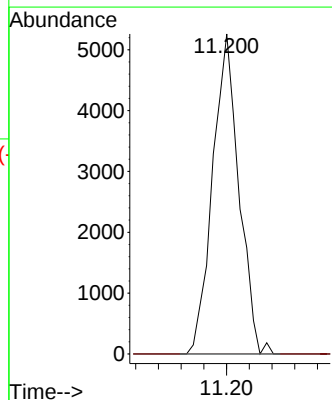
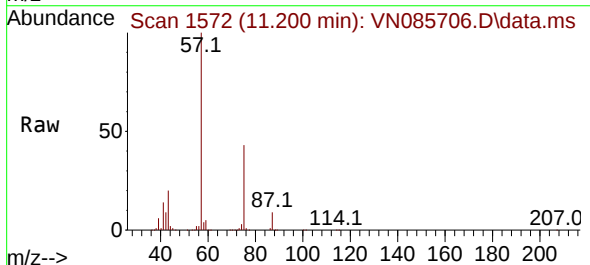


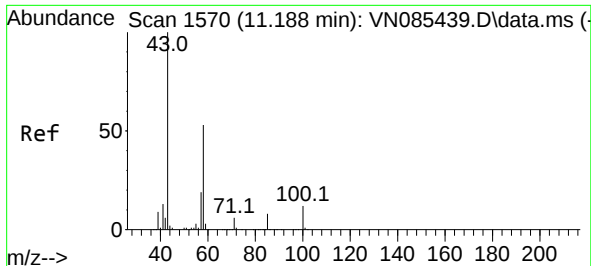
Tgt Ion: 69 Resp: 3177
Ion Ratio Lower Upper
69 100
41 2776.6 54.6 82.0#
39 1293.4 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.817 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 76 Resp: 8470
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

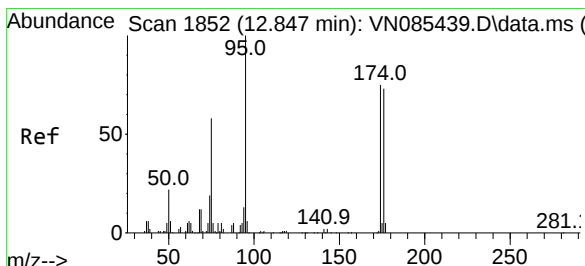
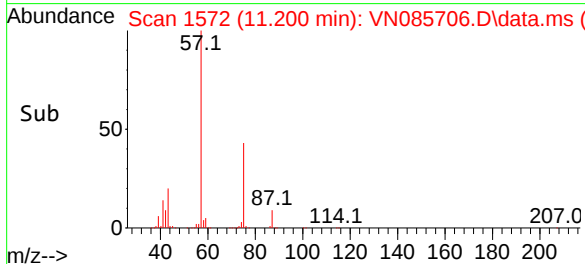
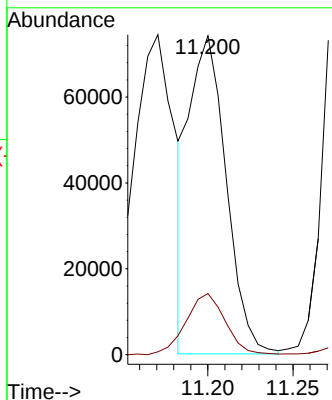
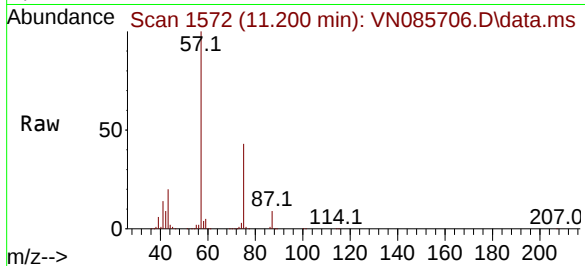




#59
2-Hexanone
Concen: 43.987 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

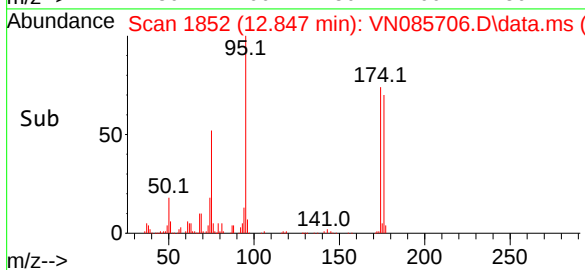
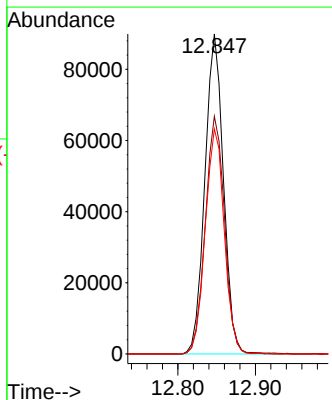
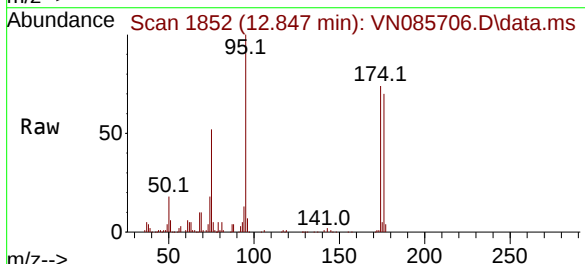
Instrument :
MSVOA_N
ClientSampleId :

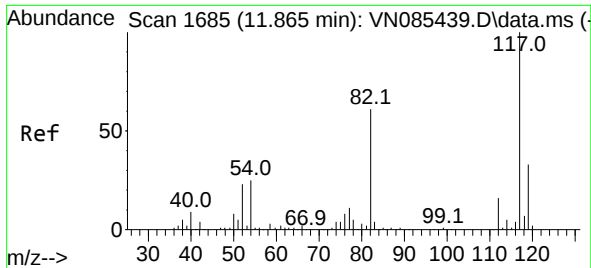
Tgt Ion: 43 Resp: 113002
Ion Ratio Lower Upper
43 100
58 20.4 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 44.306 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

Tgt Ion: 95 Resp: 149260
Ion Ratio Lower Upper
95 100
174 77.0 0.0 145.0
176 72.3 0.0 142.4

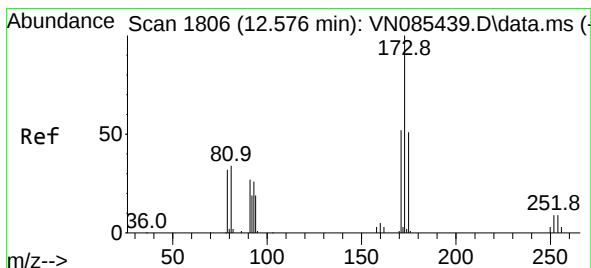
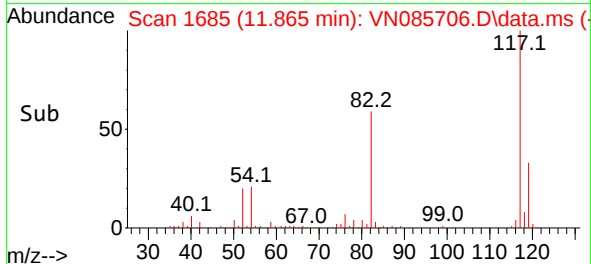
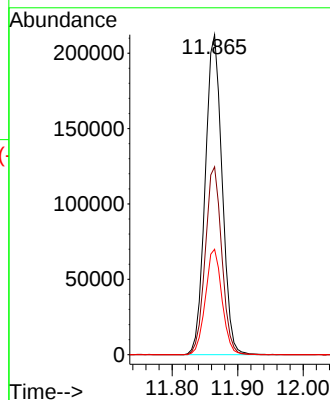
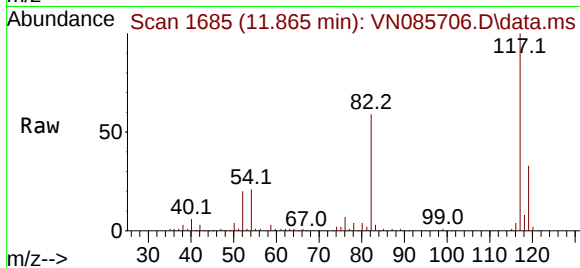




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

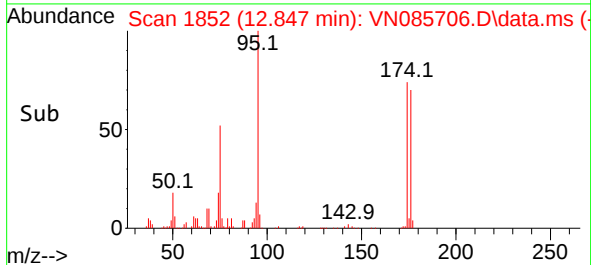
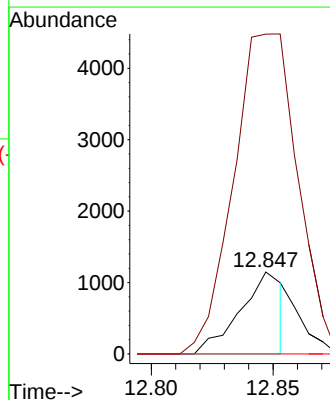
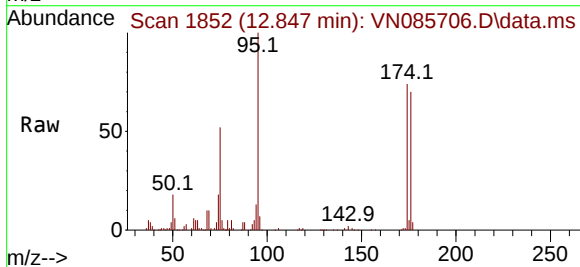
Instrument :
MSVOA_N
ClientSampleId :

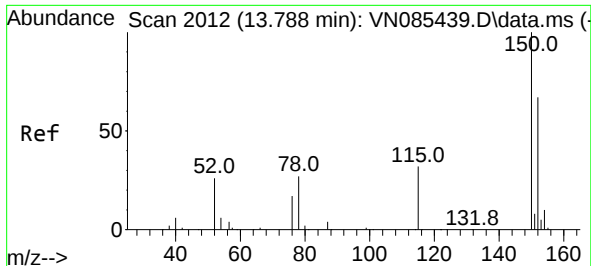
Tgt Ion:117 Resp: 380182
Ion Ratio Lower Upper
117 100
82 58.7 48.6 72.8
119 32.9 26.6 39.8



#71
Bromoform
Concen: 0.641 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN085706.D
Acq: 07 Feb 2025 19:05

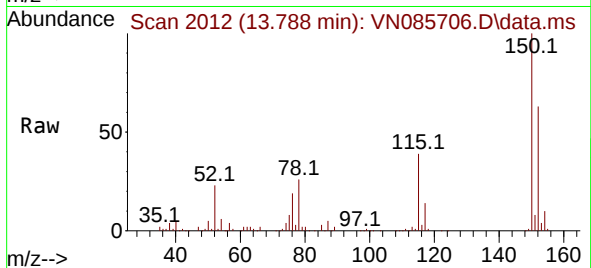
Tgt Ion:173 Resp: 1403
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.0 0.0



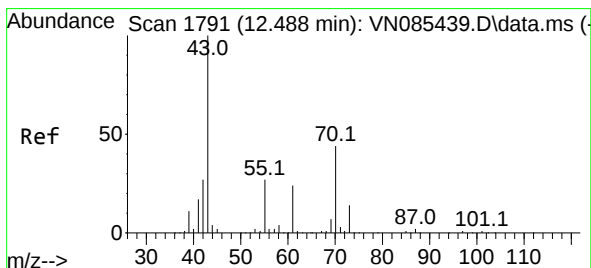
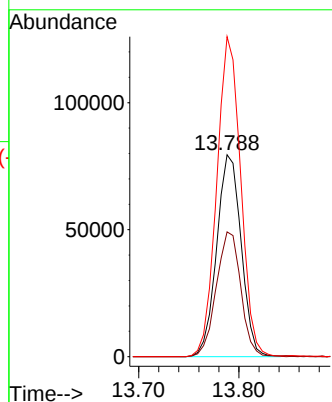
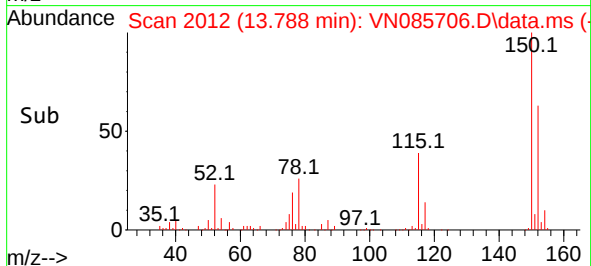


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN085706.D
 Acq: 07 Feb 2025 19:05

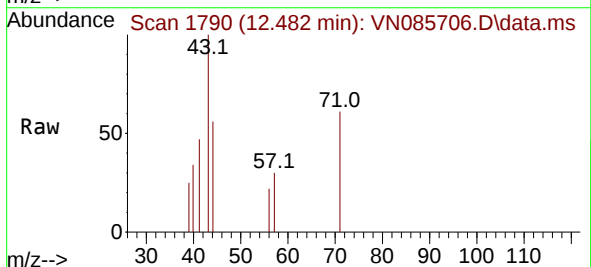
Instrument :
 MSVOA_N
 ClientSampleId :



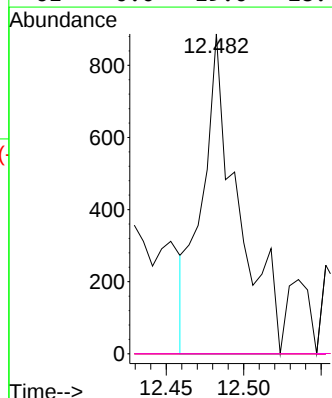
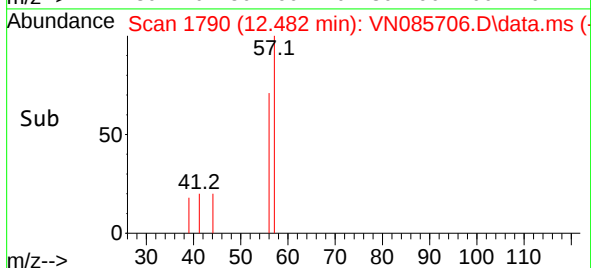
Tgt Ion:152 Resp: 134825
 Ion Ratio Lower Upper
 152 100
 115 61.8 31.1 93.3
 150 155.1 0.0 343.6

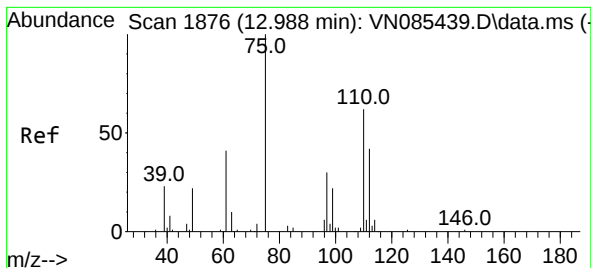


#74
 N-ethyl acetate
 Concen: 0.350 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: VN085706.D
 Acq: 07 Feb 2025 19:05



Tgt Ion: 43 Resp: 1431
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 0.0 21.4 32.2#
 61 0.0 19.0 28.4#





#76

1,2,3-Trichloropropane

Concen: 28.760 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Instrument :

MSVOA_N

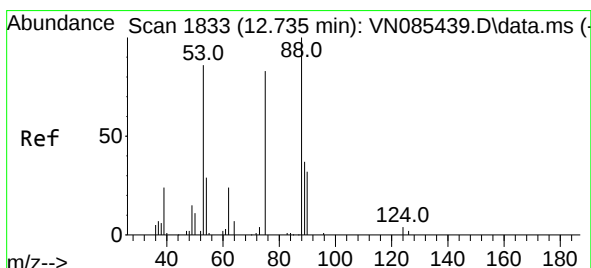
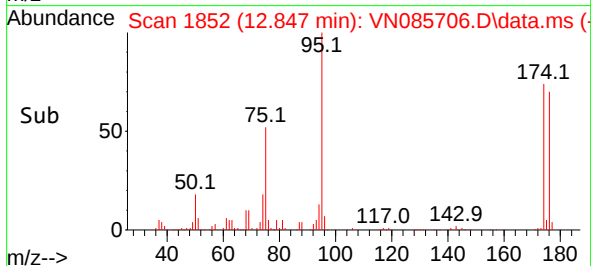
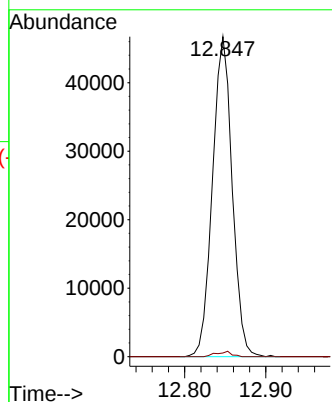
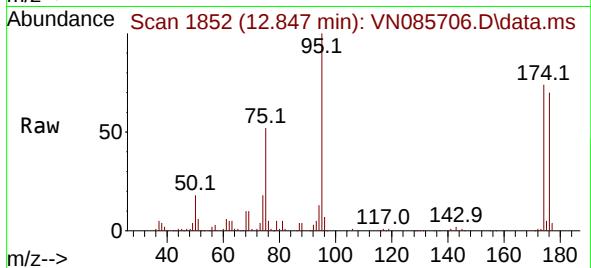
ClientSampleId :

Tgt Ion: 75 Resp: 78813

Ion Ratio Lower Upper

75 100

77 1.3 109.7 329.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.813 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085706.D

Acq: 07 Feb 2025 19:05

Tgt Ion: 75 Resp: 78813

Ion Ratio Lower Upper

75 100

53 0.1 95.6 143.4#

89 0.0 37.0 55.6#

