

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021425\
 Data File : VN085770.D
 Acq On : 14 Feb 2025 14:42
 Operator : JC\MD
 Sample : PB166701ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 14 22:38:33 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

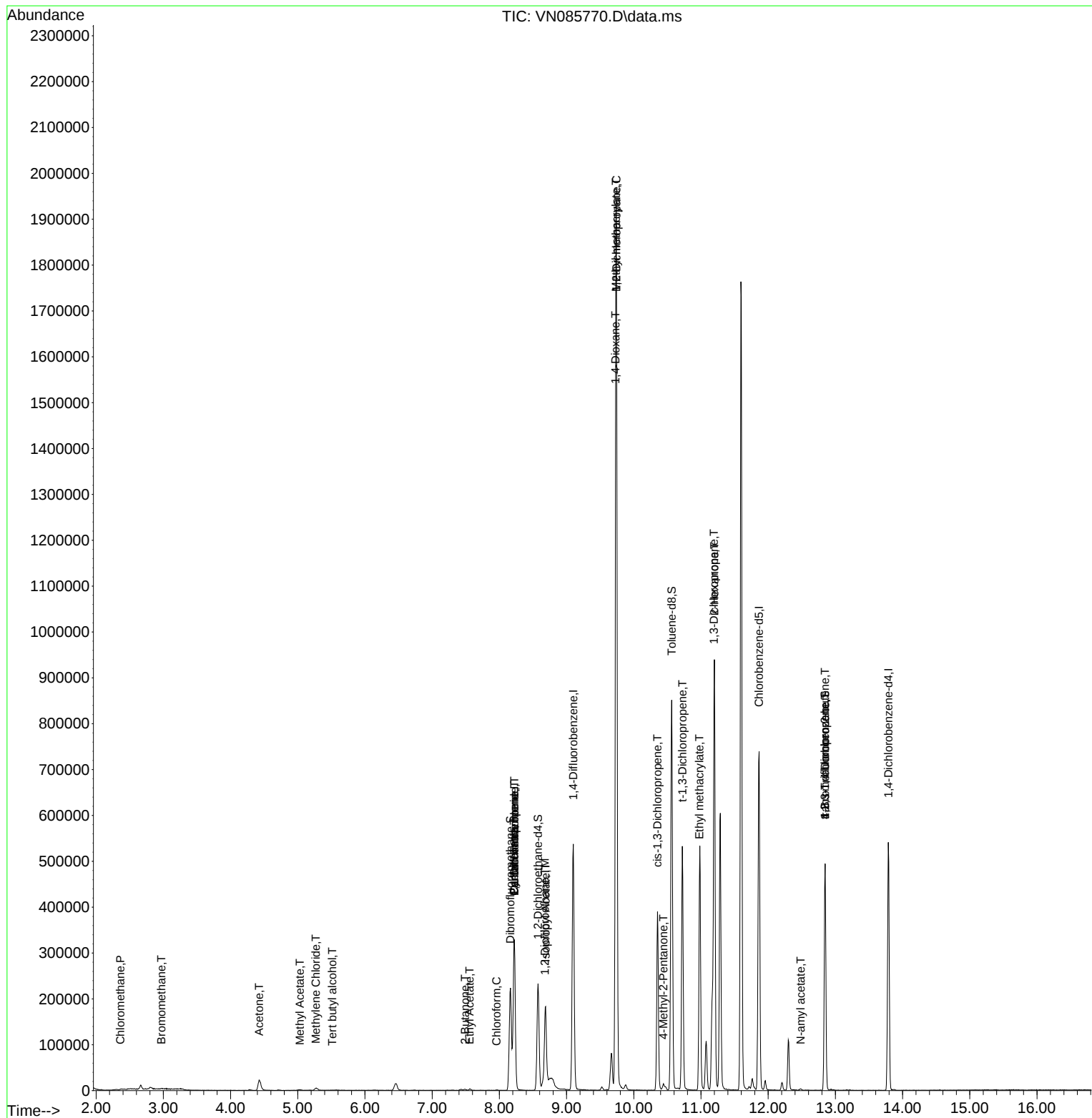
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	233308	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	460844	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	437559	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	189543	50.329	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.660%		
35) Dibromofluoromethane	8.165	113	161446	50.497	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.000%		
50) Toluene-d8	10.565	98	597898	52.635	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.280%		
62) 4-Bromofluorobenzene	12.847	95	171982	44.260	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 88.520%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	752	0.220	ug/l #	69
5) Bromomethane	2.971	94	571	0.275	ug/l	97
11) Tert butyl alcohol	5.512	59	158	0.366	ug/l #	71
16) Acetone	4.424	43	43276	35.564	ug/l	92
18) Methyl Acetate	5.030	43	3163	0.855	ug/l #	67
20) Methylene Chloride	5.271	84	4218	1.400	ug/l #	76
25) 2-Butanone	7.489	43	4246	2.371	ug/l	96
30) Chloroform	7.959	83	1169	0.206	ug/l #	73
31) Cyclohexane	8.218	56	5167	1.081	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	20161	4.493	ug/l #	50
37) Ethyl Acetate	7.559	43	4710	1.040	ug/l #	92
38) Carbon Tetrachloride	8.224	117	25196	4.905	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1299	0.256	ug/l #	76
43) Isopropyl Acetate	8.688	43	212807	29.324	ug/l #	89
45) 1,2-Dichloropropane	9.741	63	2489	0.723	ug/l #	43
48) Methyl methacrylate	9.735	41	171855	52.621	ug/l #	43
49) 1,4-Dioxane	9.730	88	131	2.382	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	14138	3.357	ug/l #	80
53) t-1,3-Dichloropropene	10.724	75	1328	0.278	ug/l #	48
54) cis-1,3-Dichloropropene	10.353	75	68524	13.409	ug/l #	60
56) Ethyl methacrylate	10.977	69	3069	2.498	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	10275	1.911	ug/l #	43
59) 2-Hexanone	11.200	43	125584	42.382	ug/l #	56
74) N-amyl acetate	12.482	43	1959	0.429	ug/l #	48
76) 1,2,3-Trichloropropane	12.847	75	88157	28.828	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	88157	77.995	ug/l #	3

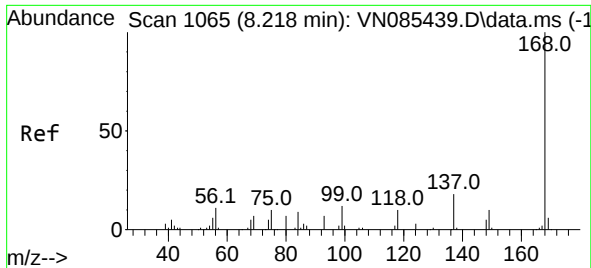
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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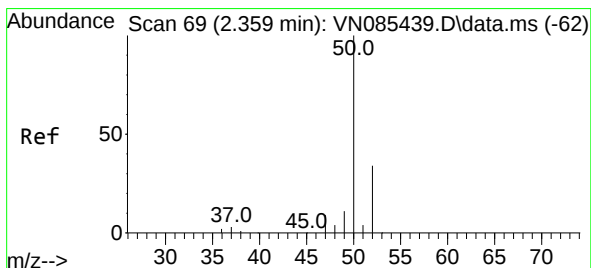
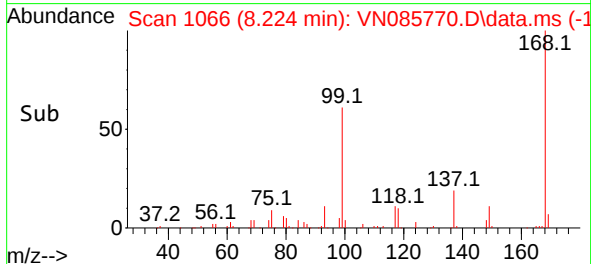
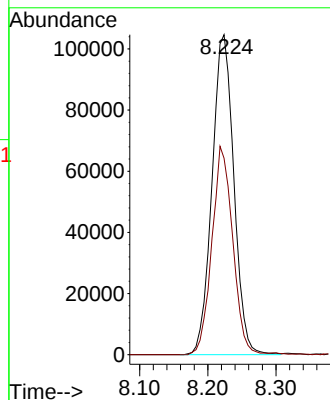
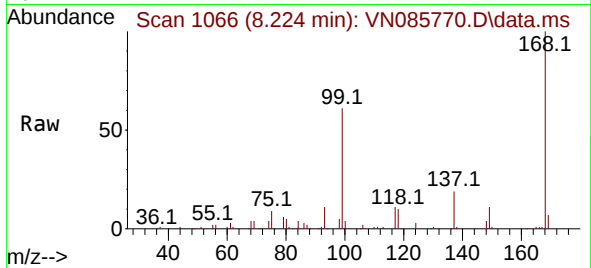




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

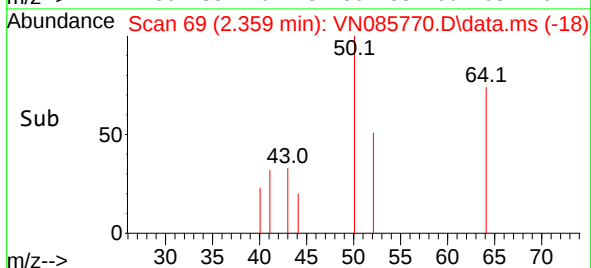
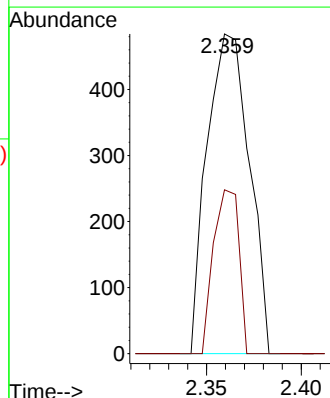
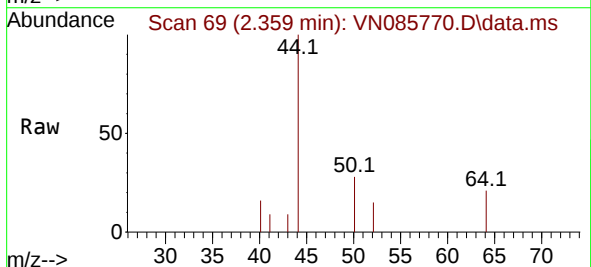
Instrument :
MSVOA_N
ClientSampleId :

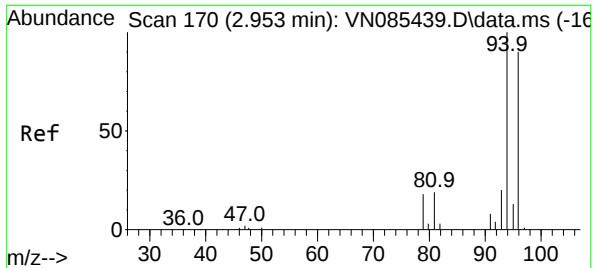
Tgt Ion:168 Resp: 233308
Ion Ratio Lower Upper
168 100
99 61.4 53.6 80.4



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 50 Resp: 752
Ion Ratio Lower Upper
50 100
52 51.2 27.0 40.6#

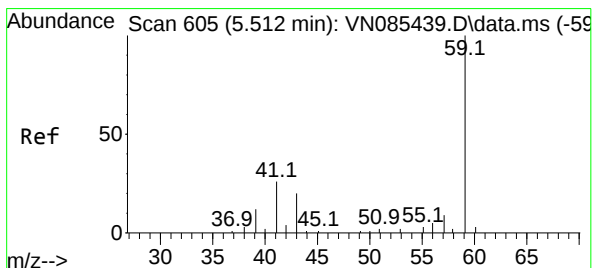
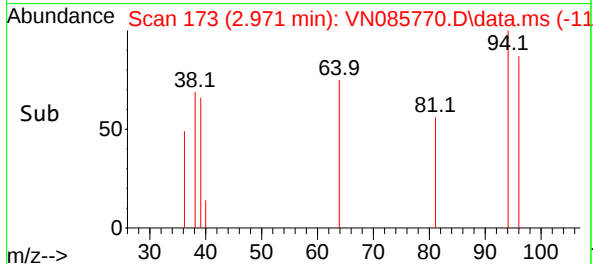
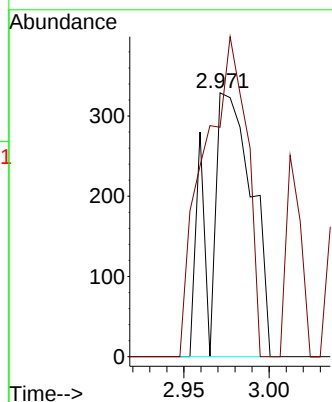
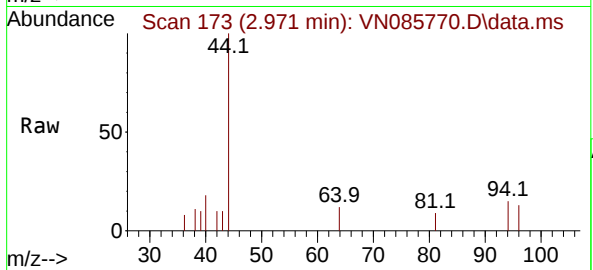




#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

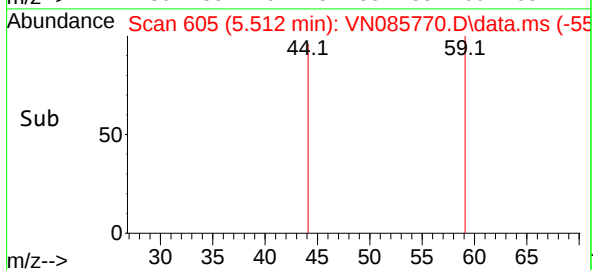
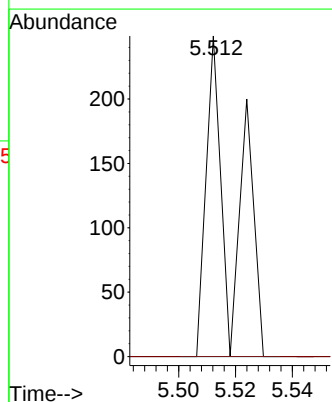
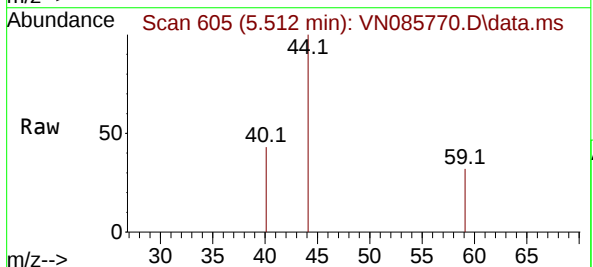
Instrument :
MSVOA_N
ClientSampleId :

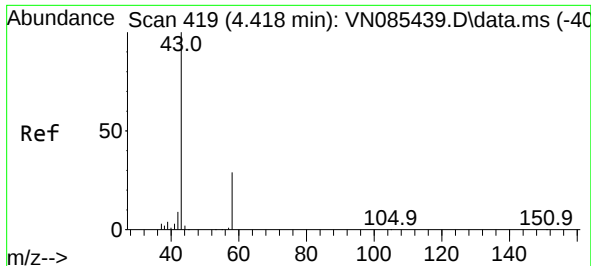
Tgt Ion: 94 Resp: 571
Ion Ratio Lower Upper
94 100
96 86.9 71.8 107.6



#11
Tert butyl alcohol
Concen: 0.366 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 59 Resp: 158
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

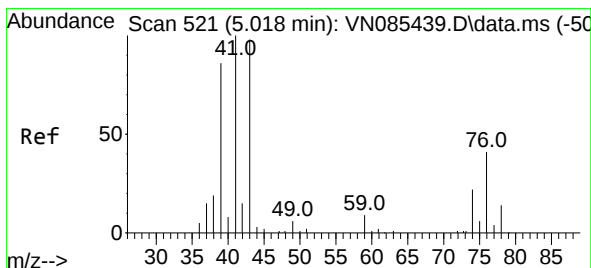
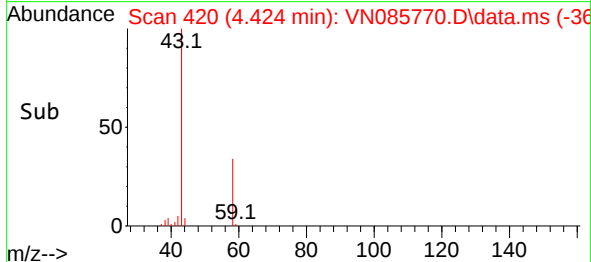
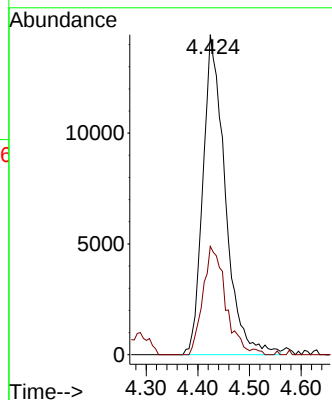
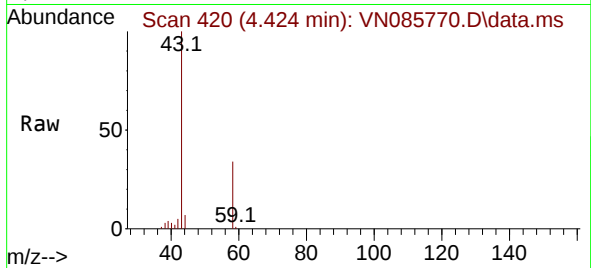




#16
Acetone
Concen: 35.564 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

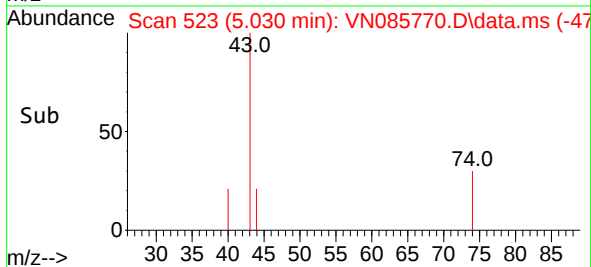
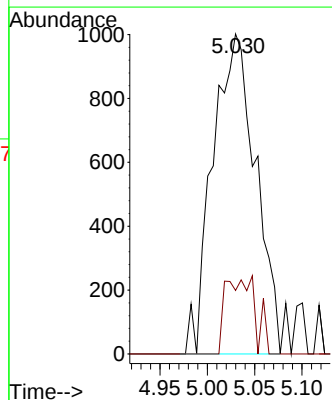
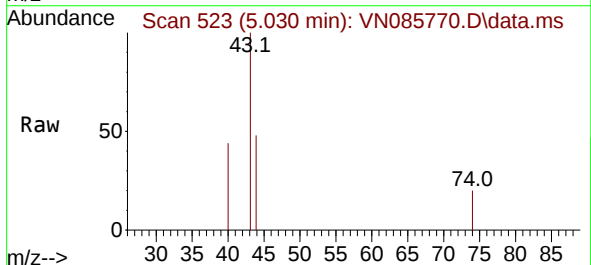
Instrument :
MSVOA_N
ClientSampleId :

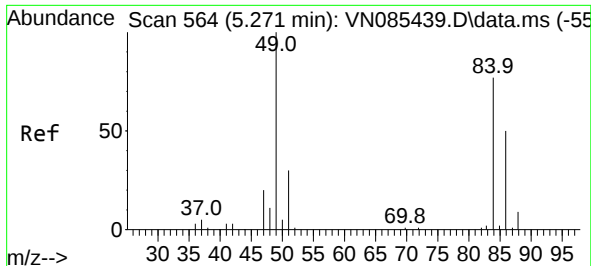
Tgt Ion: 43 Resp: 43276
Ion Ratio Lower Upper
43 100
58 33.9 23.8 35.6



#18
Methyl Acetate
Concen: 0.855 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

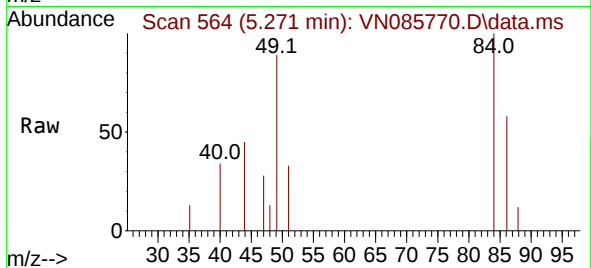
Tgt Ion: 43 Resp: 3163
Ion Ratio Lower Upper
43 100
74 7.3 18.6 28.0#



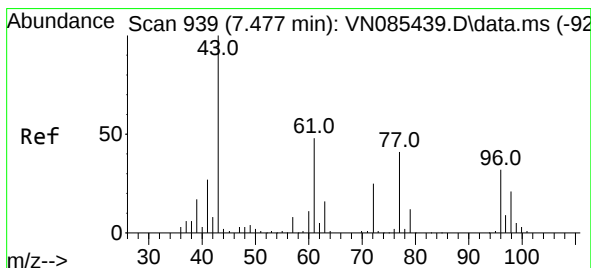
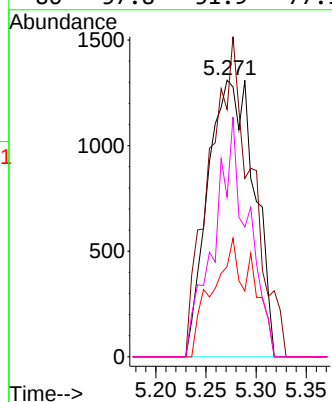


#20
Methylene Chloride
Concen: 1.400 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Instrument :
MSVOA_N
ClientSampleId :

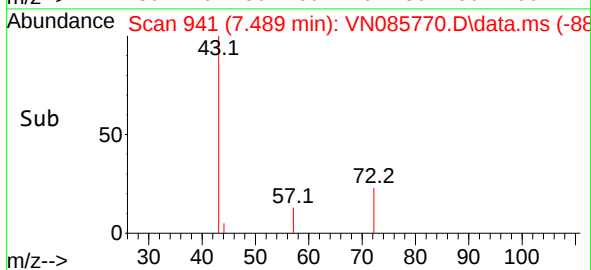
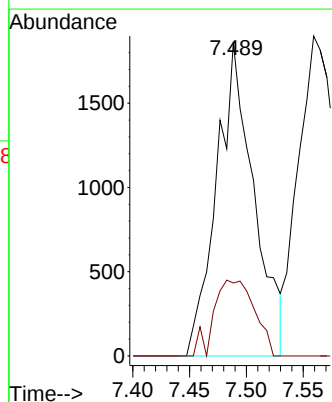
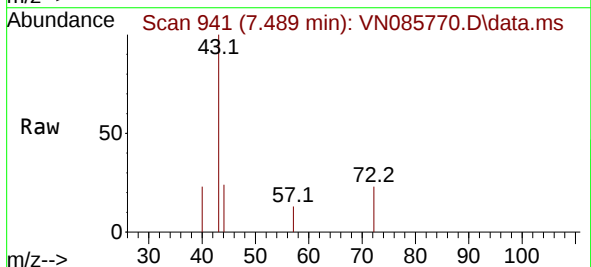


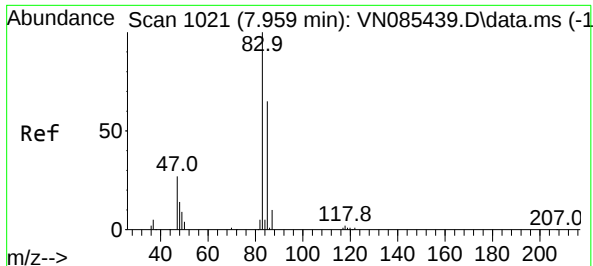
Tgt Ion: 84	Resp: 4218
Ion Ratio	Lower Upper
84 100	
49 89.4	104.1 156.1#
51 32.5	31.0 46.4
86 57.8	51.9 77.9



#25
2-Butanone
Concen: 2.371 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 43	Resp: 4246		
Ion Ratio	Lower	Upper	
43 100			
72 23.3	20.2	30.4	





#30

Chloroform

Concen: 0.206 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Instrument :

MSVOA_N

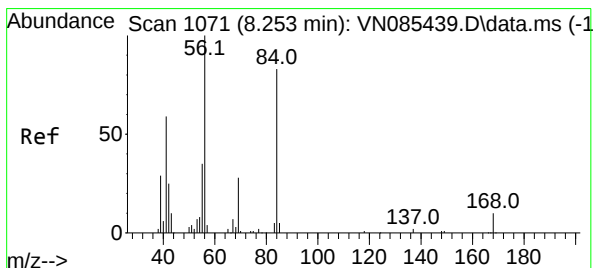
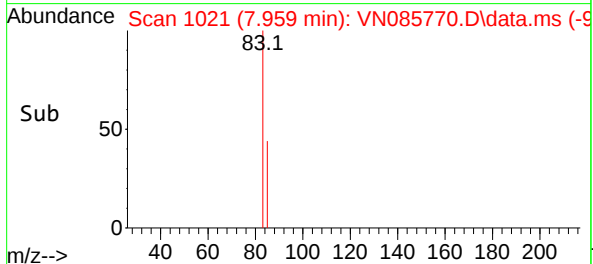
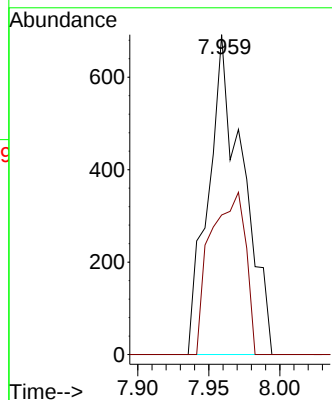
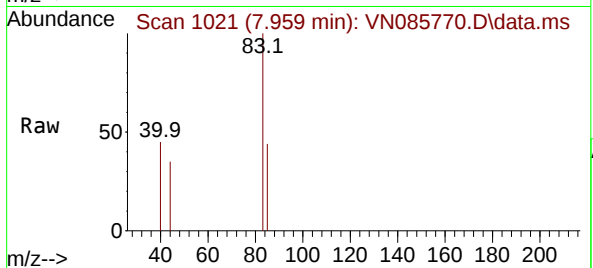
ClientSampleId :

Tgt Ion: 83 Resp: 1169

Ion Ratio Lower Upper

83 100

85 43.6 51.8 77.6#



#31

Cyclohexane

Concen: 1.081 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

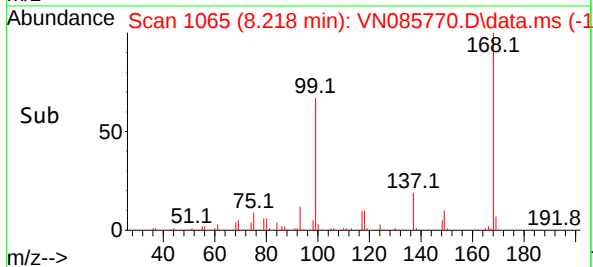
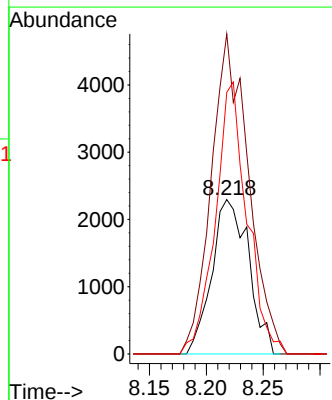
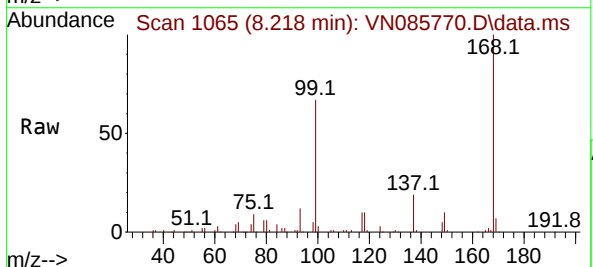
Tgt Ion: 56 Resp: 5167

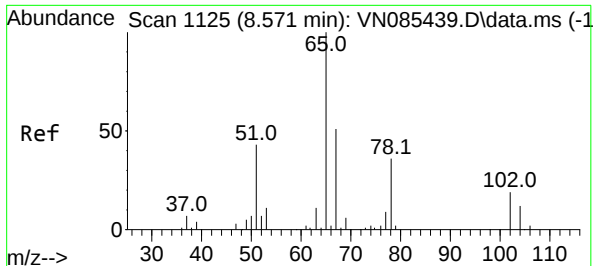
Ion Ratio Lower Upper

56 100

69 207.3 22.2 33.4#

84 169.5 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 50.329 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Instrument :

MSVOA_N

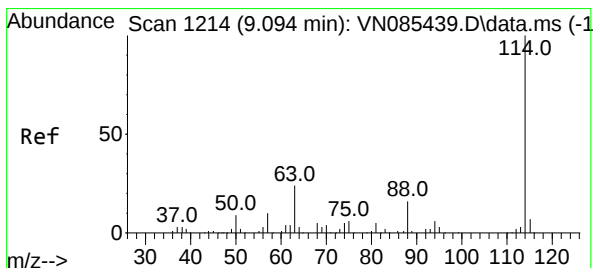
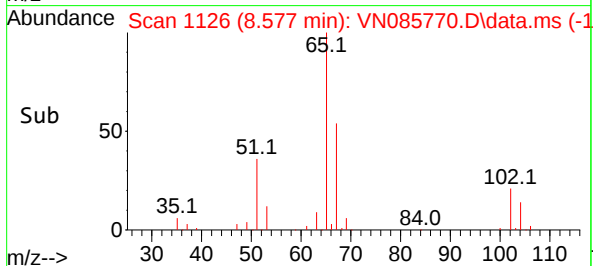
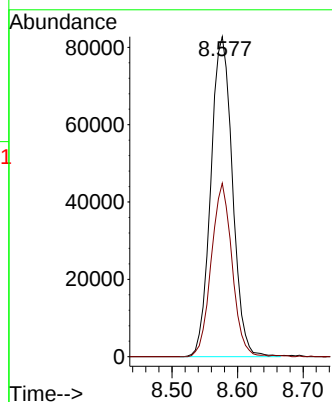
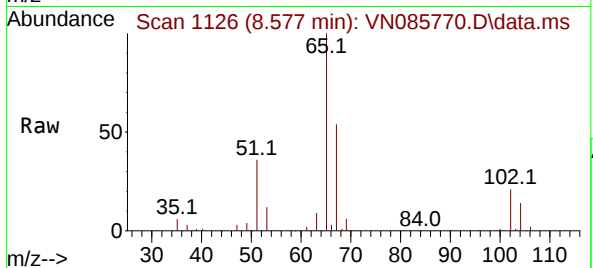
ClientSampleId :

Tgt Ion: 65 Resp: 189543

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

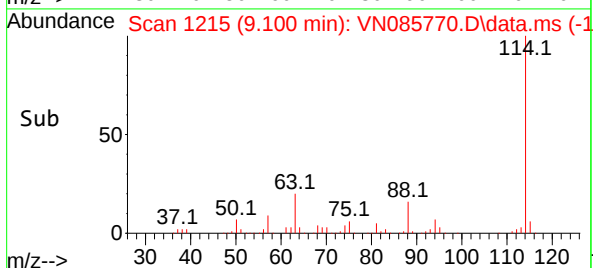
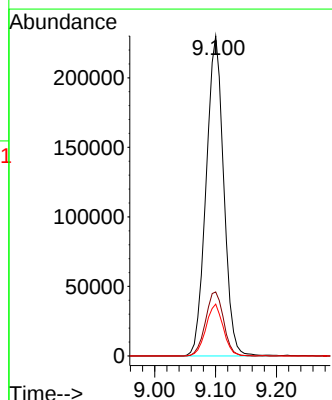
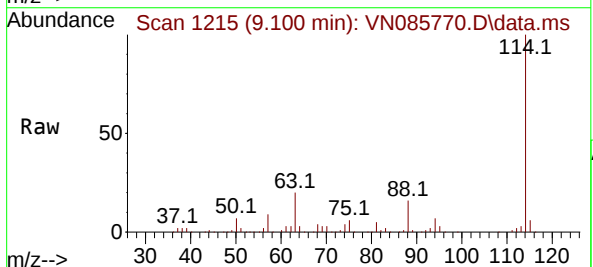
Tgt Ion: 114 Resp: 460844

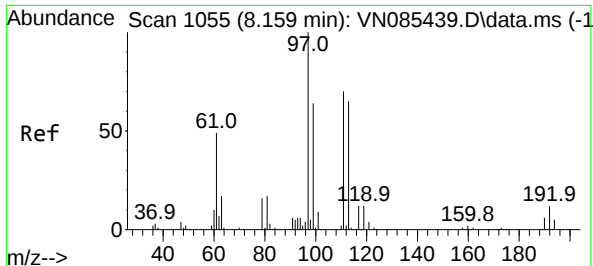
Ion Ratio Lower Upper

114 100

63 20.0 0.0 47.6

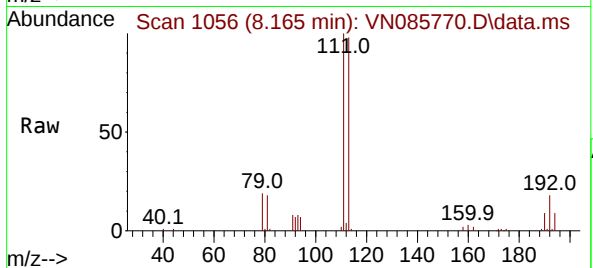
88 16.2 0.0 32.6



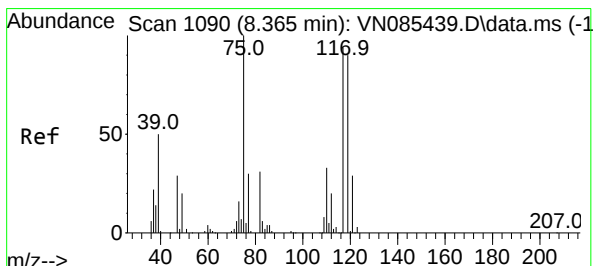
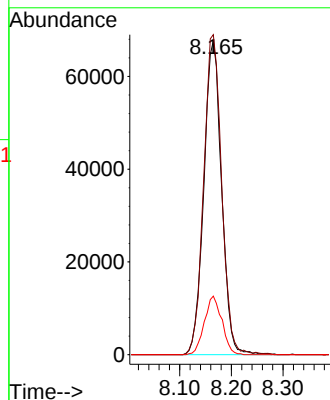
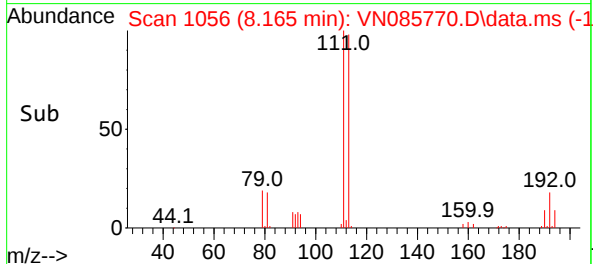


#35
Dibromofluoromethane
Concen: 50.497 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

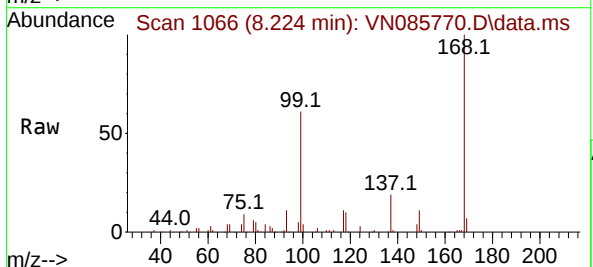
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MSVOA_N
ClientSampleId :



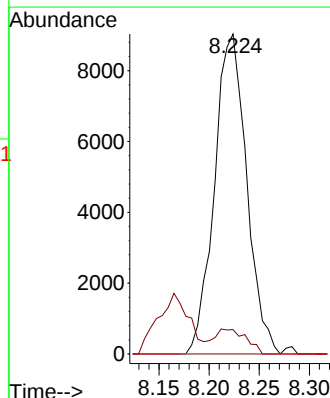
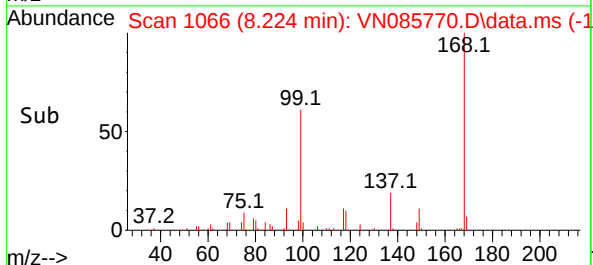
Tgt Ion:113 Resp: 161446
Ion Ratio Lower Upper
113 100
111 103.3 82.7 124.1
192 18.4 14.3 21.5

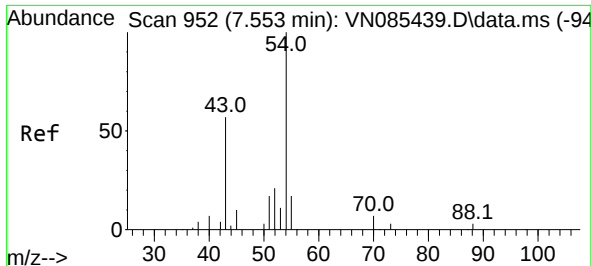


#36
1,1-Dichloropropene
Concen: 4.493 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42



Tgt Ion: 75 Resp: 20161
Ion Ratio Lower Upper
75 100
110 7.9 16.5 49.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.040 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

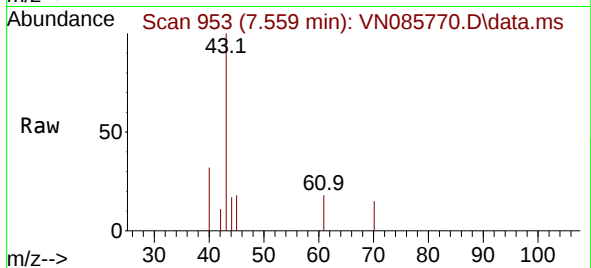
Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

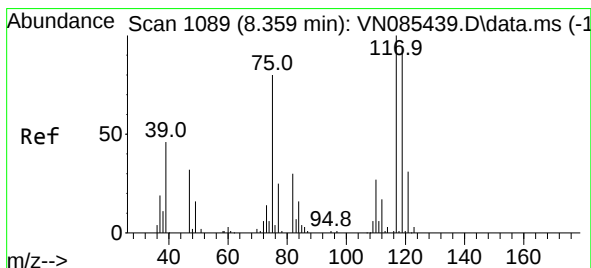
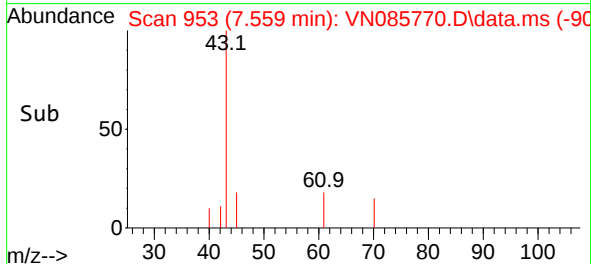
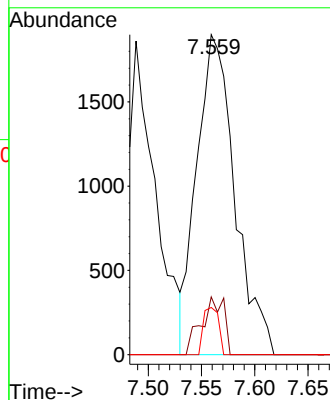
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4710
Ion	Ratio	Lower	Upper
43	100		
61	10.7	10.9	16.3#
70	5.9	7.5	11.3#



#38

Carbon Tetrachloride

Concen: 4.905 ug/l

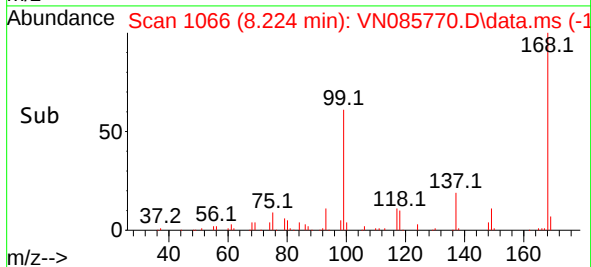
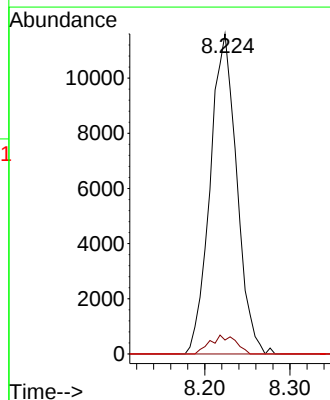
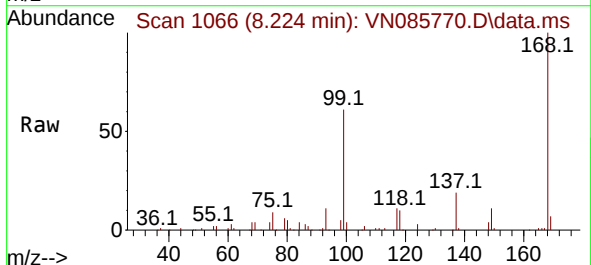
RT: 8.224 min Scan# 1066

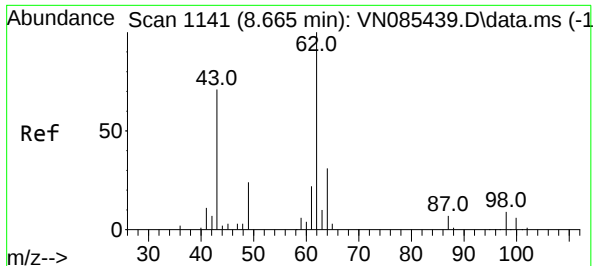
Delta R.T. -0.135 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Tgt Ion:	117	Resp:	25196
Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.4	113.2#
121	0.0	24.6	37.0#

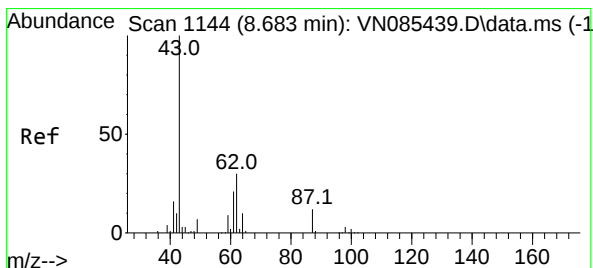
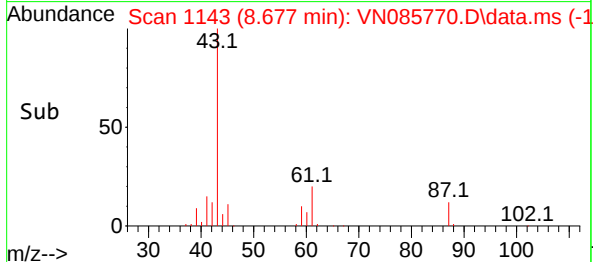
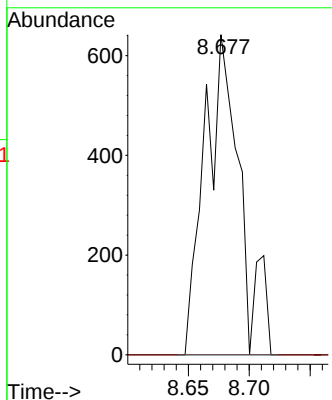
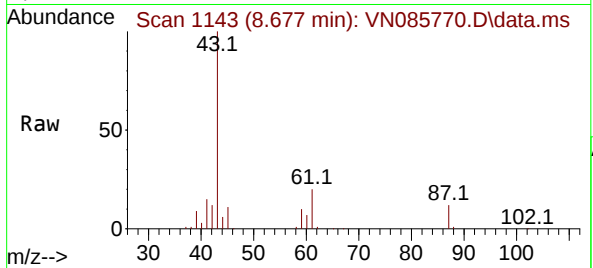




#42
1,2-Dichloroethane
Concen: 0.256 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

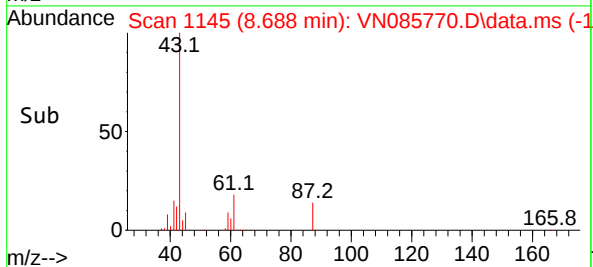
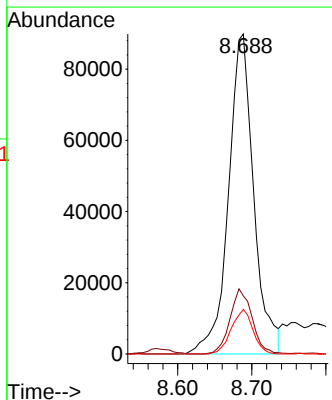
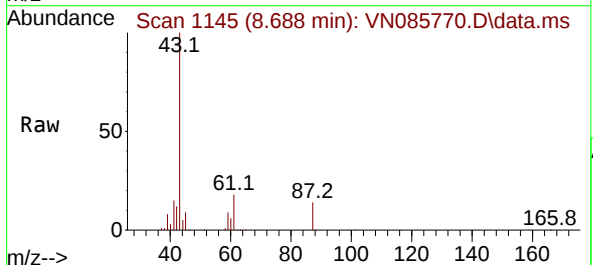
Instrument :
MSVOA_N
ClientSampleId :

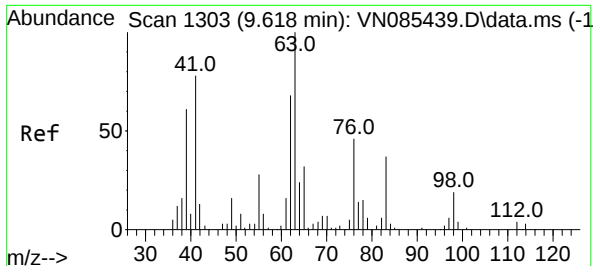
Tgt Ion: 62 Resp: 1299
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



#43
Isopropyl Acetate
Concen: 29.324 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 43 Resp: 212807
Ion Ratio Lower Upper
43 100
61 17.9 20.7 31.1#
87 11.9 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.723 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Instrument :

MSVOA_N

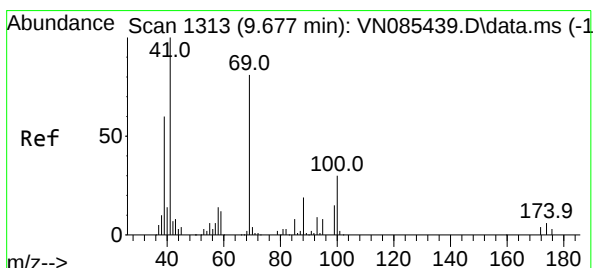
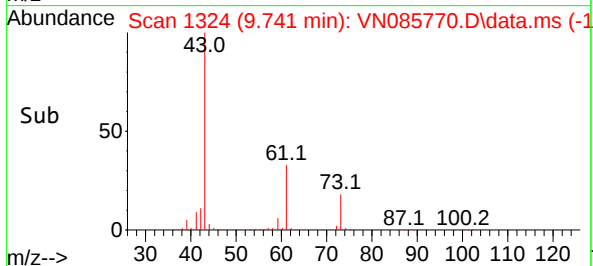
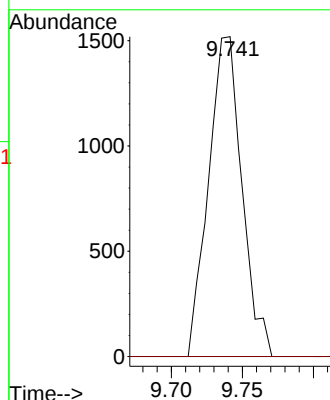
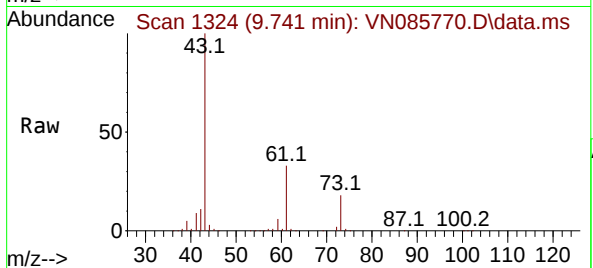
ClientSampleId :

Tgt Ion: 63 Resp: 2489

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 52.621 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.058 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

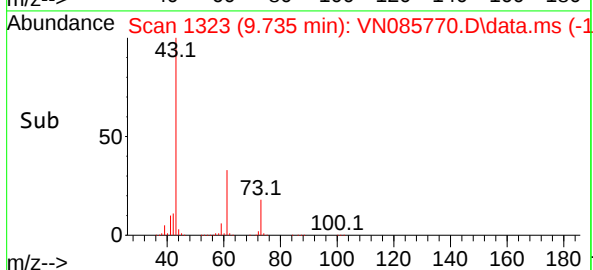
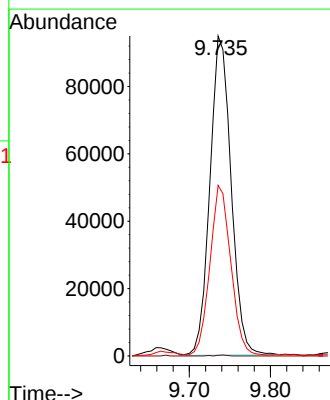
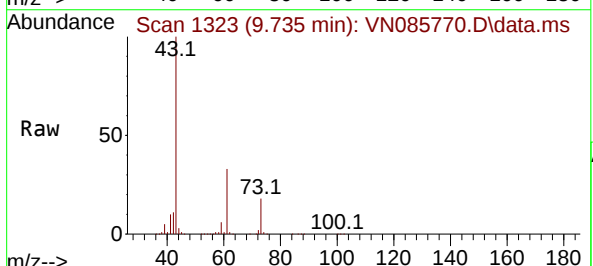
Tgt Ion: 41 Resp: 171855

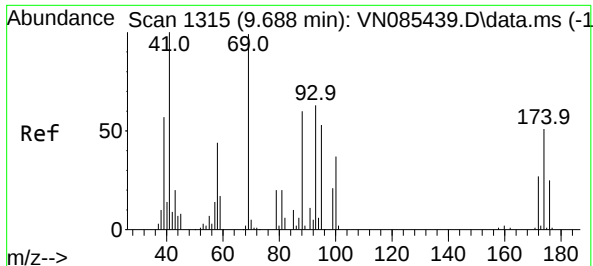
Ion Ratio Lower Upper

41 100

69 0.2 64.7 97.1#

39 52.2 49.0 73.6





#49

1,4-Dioxane

Concen: 2.382 ug/l

RT: 9.730 min Scan# 1315

Delta R.T. 0.041 min

Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

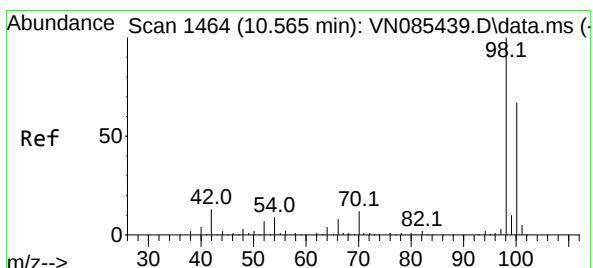
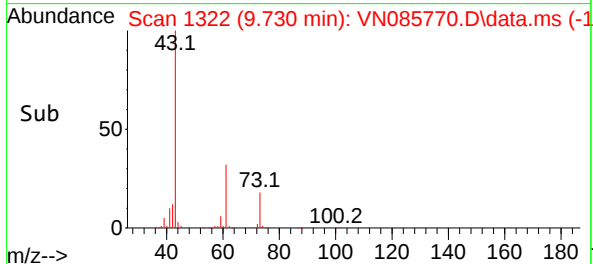
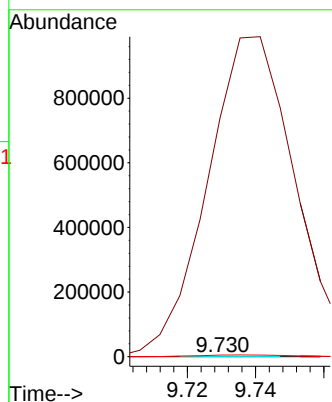
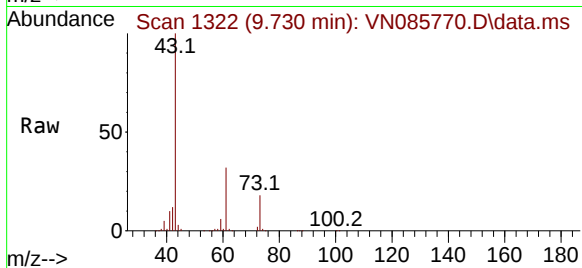
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 1366513.0 26.6 39.8#

58 8324.4 59.5 89.3#



#50

Toluene-d8

Concen: 52.635 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085770.D

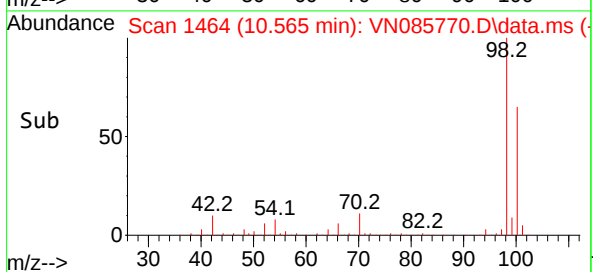
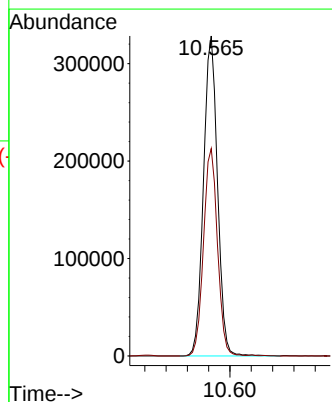
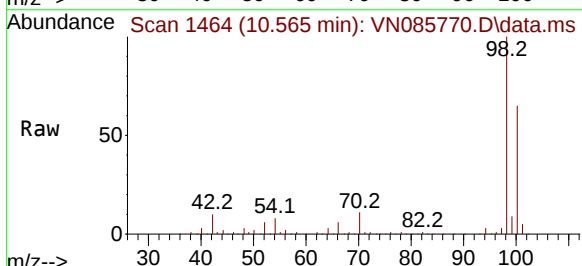
Acq: 14 Feb 2025 14:42

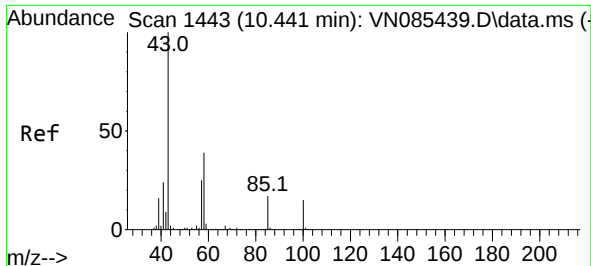
Tgt Ion: 98 Resp: 597898

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4

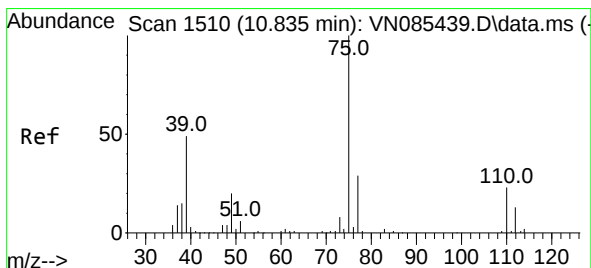
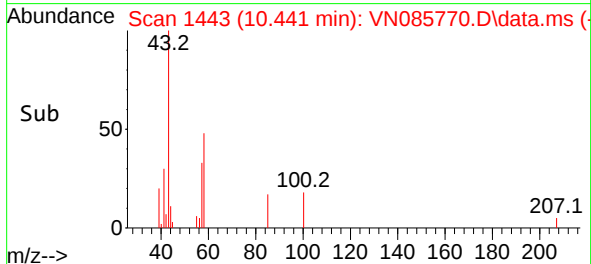
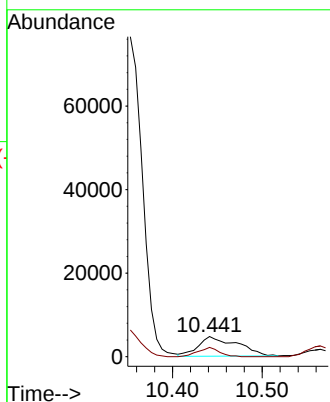
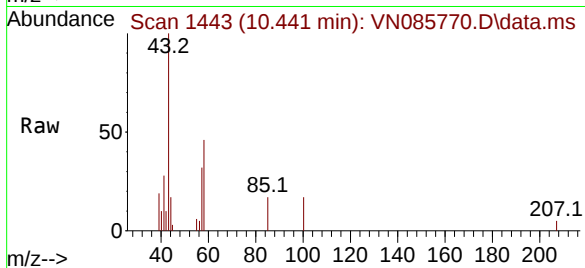




#51
4-Methyl-2-Pentanone
Concen: 3.357 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

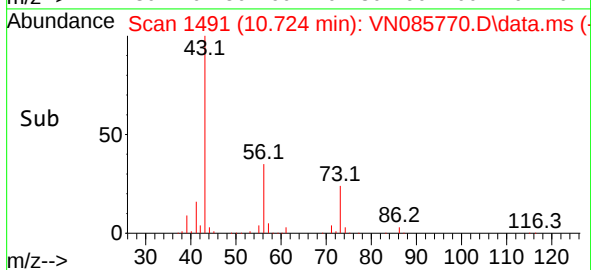
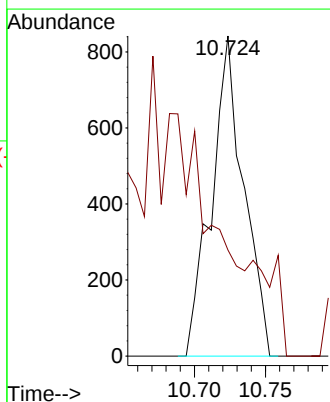
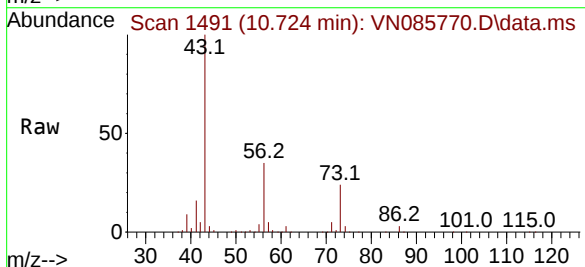
Instrument :
MSVOA_N
ClientSampleId :

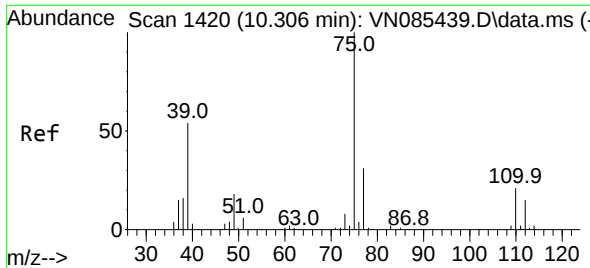
Tgt Ion: 43 Resp: 14138
Ion Ratio Lower Upper
43 100
58 25.9 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.278 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 75 Resp: 1328
Ion Ratio Lower Upper
75 100
77 1.7 23.5 35.3#

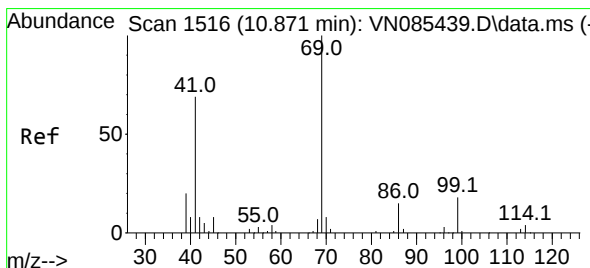
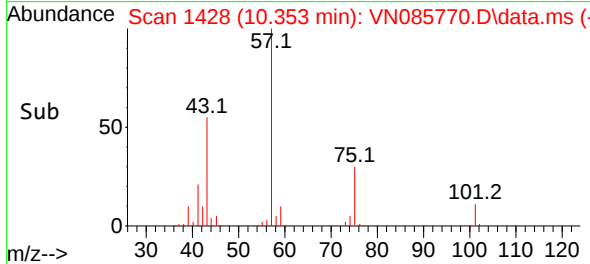
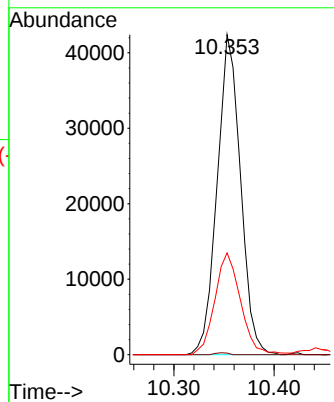
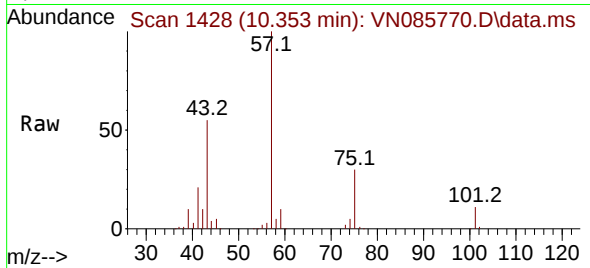




#54
 cis-1,3-Dichloropropene
 Concen: 13.409 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085770.D
 Acq: 14 Feb 2025 14:42

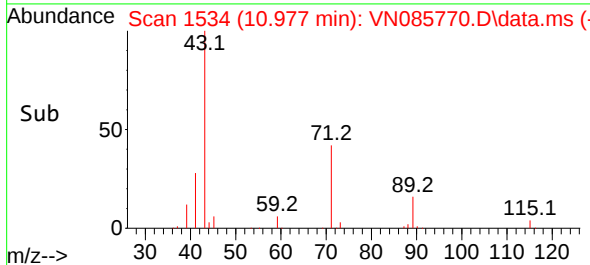
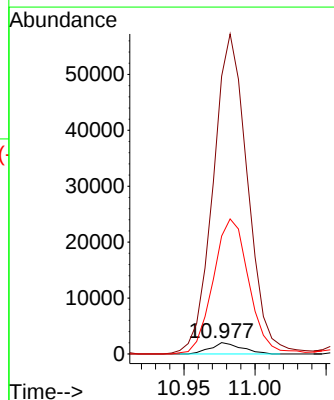
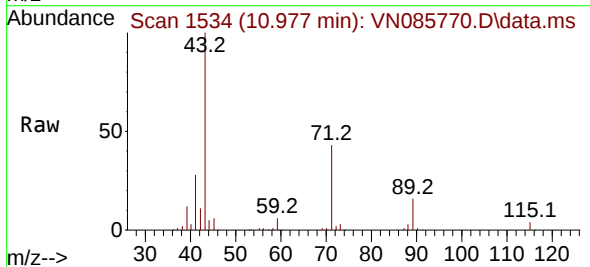
Instrument :
 MSVOA_N
 ClientSampleId :

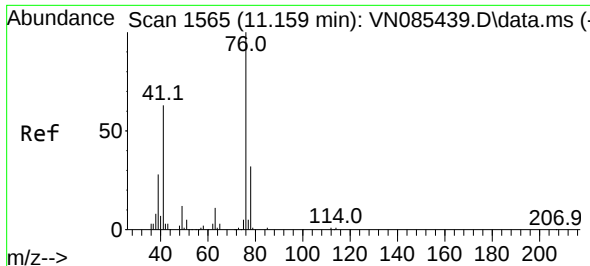
Tgt Ion: 75 Resp: 68524
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 31.8 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.498 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN085770.D
 Acq: 14 Feb 2025 14:42

Tgt Ion: 69 Resp: 3069
 Ion Ratio Lower Upper
 69 100
 41 3154.7 54.6 82.0#
 39 1376.8 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.911 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

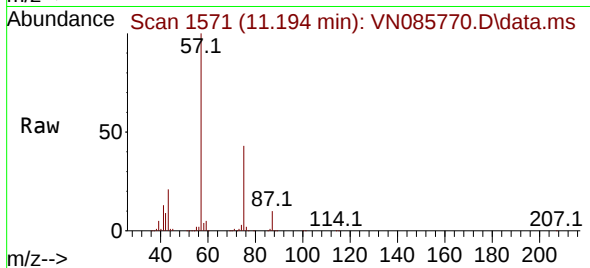
Lab File: VN085770.D

Acq: 14 Feb 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

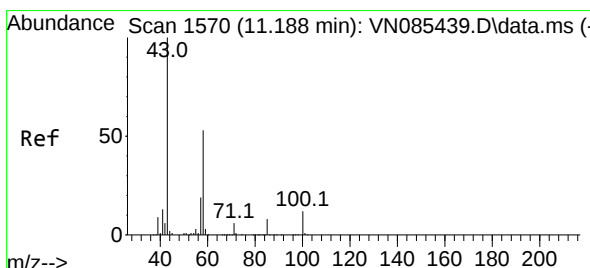
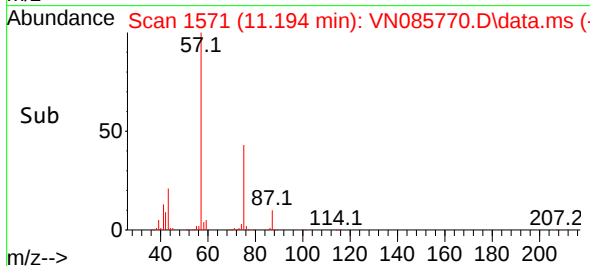
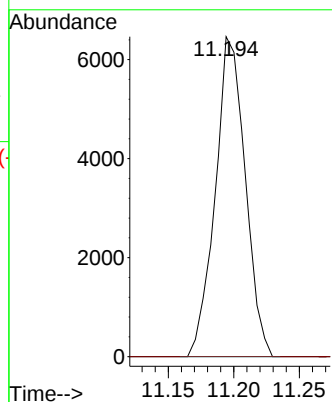


Tgt Ion: 76 Resp: 10275

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 42.382 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085770.D

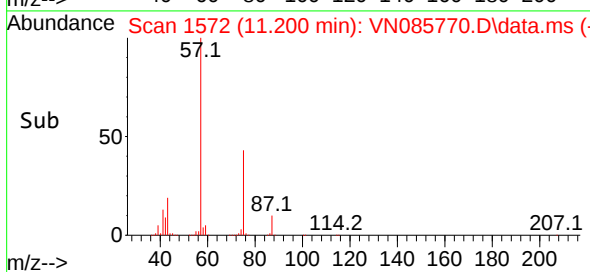
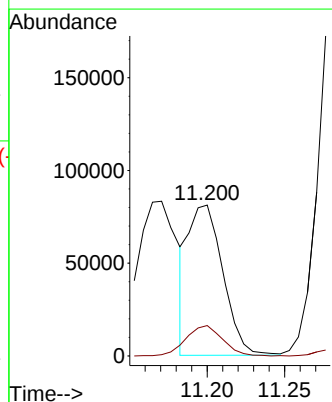
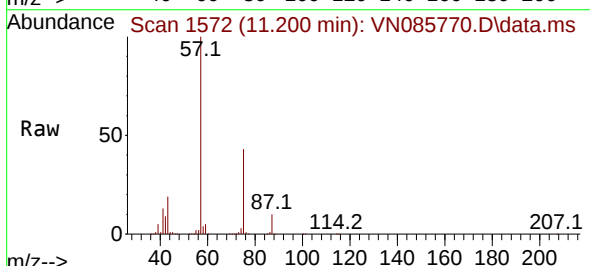
Acq: 14 Feb 2025 14:42

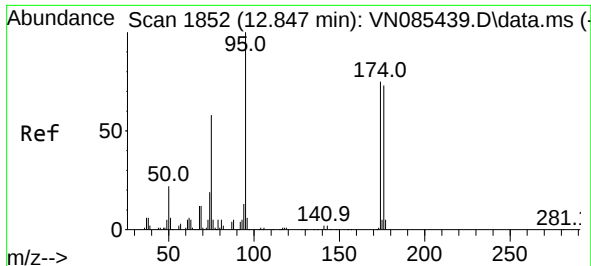
Tgt Ion: 43 Resp: 125584

Ion Ratio Lower Upper

43 100

58 21.7 26.2 78.6#

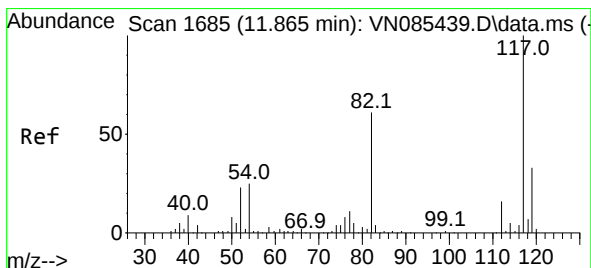
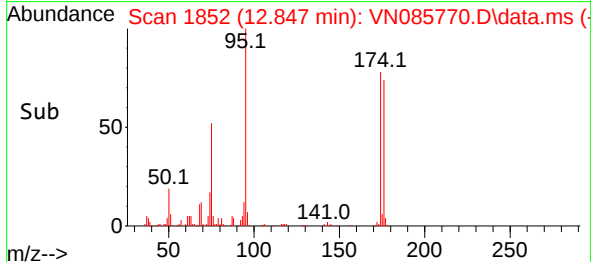
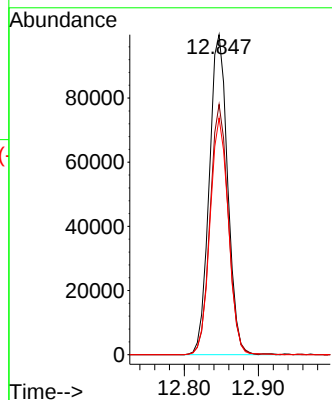
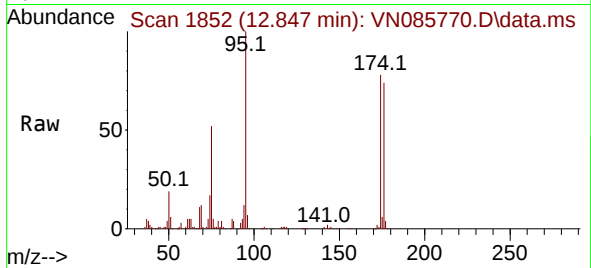




#62
4-Bromofluorobenzene
Concen: 44.260 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

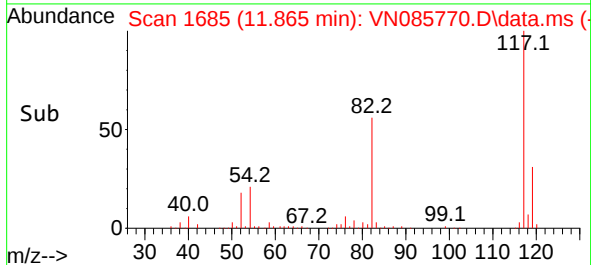
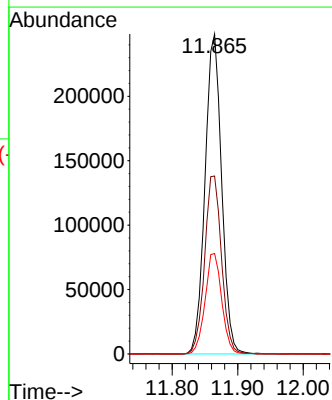
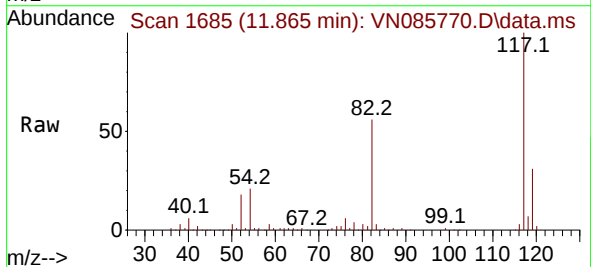
Instrument :
MSVOA_N
ClientSampleId :

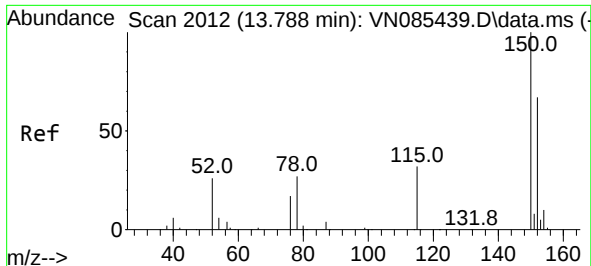
Tgt Ion: 95 Resp: 171982
Ion Ratio Lower Upper
95 100
174 77.2 0.0 145.0
176 74.0 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

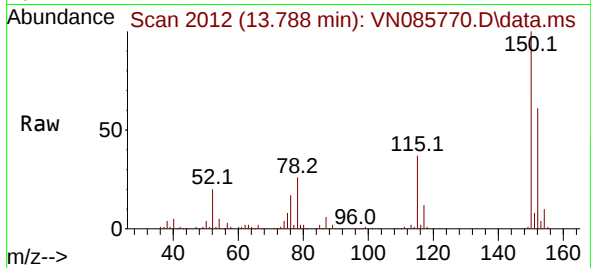
Tgt Ion: 117 Resp: 437559
Ion Ratio Lower Upper
117 100
82 55.6 48.6 72.8
119 31.4 26.6 39.8



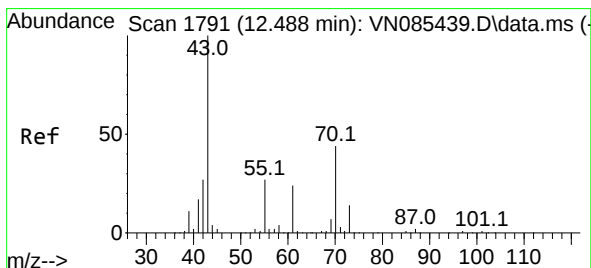
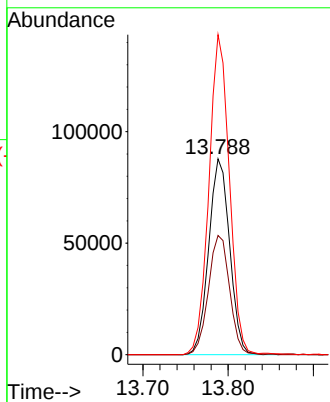
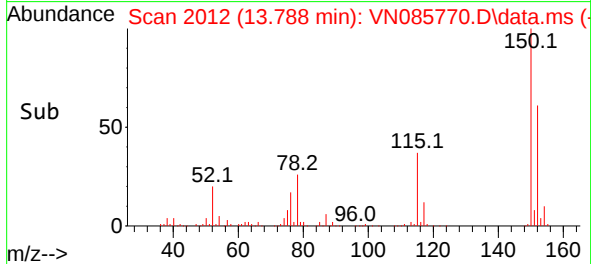


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

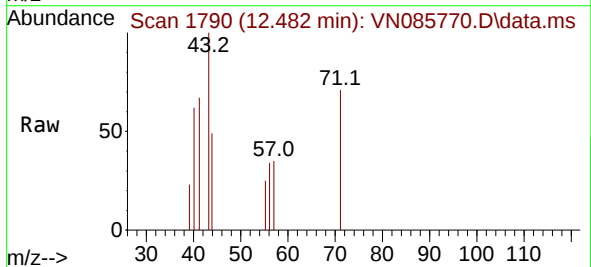
Instrument :
MSVOA_N
ClientSampleId :



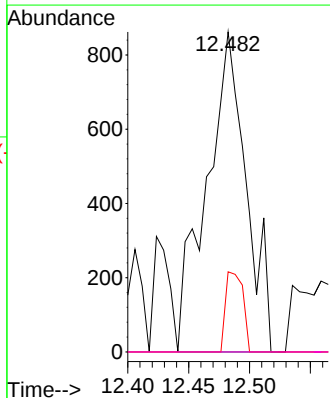
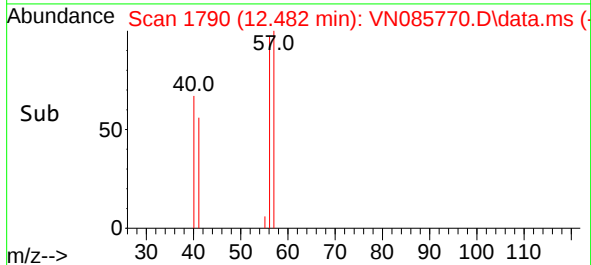
Tgt Ion:152 Resp: 150457
Ion Ratio Lower Upper
152 100
115 61.5 31.1 93.3
150 159.5 0.0 343.6

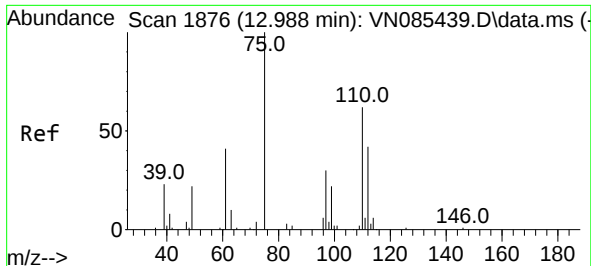


#74
N-ethyl acetate
Concen: 0.429 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42



Tgt Ion: 43 Resp: 1959
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 10.9 21.4 32.2#
61 0.0 19.0 28.4#

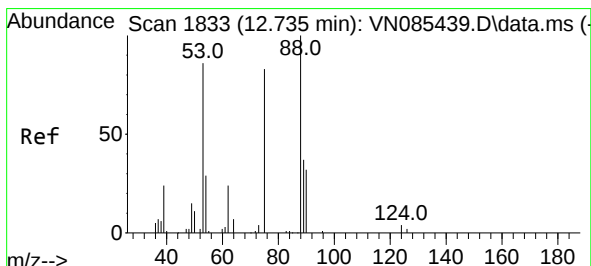
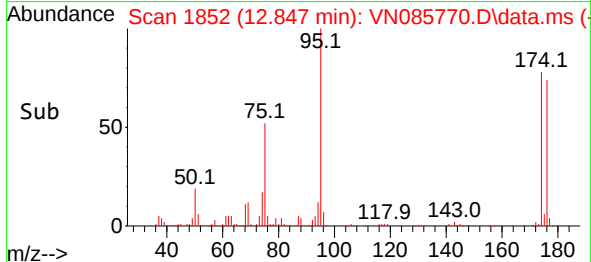
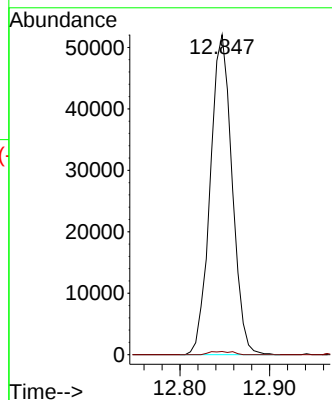
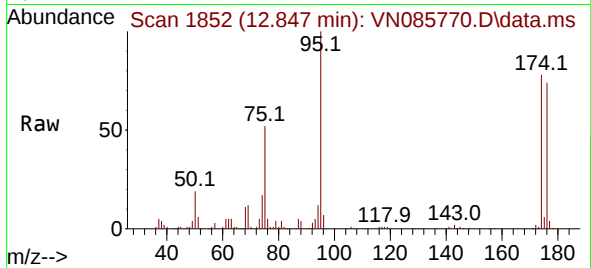




#76
1,2,3-Trichloropropane
Concen: 28.828 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 88157
Ion Ratio Lower Upper
75 100
77 1.1 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085770.D
Acq: 14 Feb 2025 14:42

Tgt Ion: 75 Resp: 88157
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#

