

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011725\
 Data File : VN085497.D
 Acq On : 17 Jan 2025 16:48
 Operator : JC\MD
 Sample : Q1115-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11995

Quant Time: Jan 17 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)

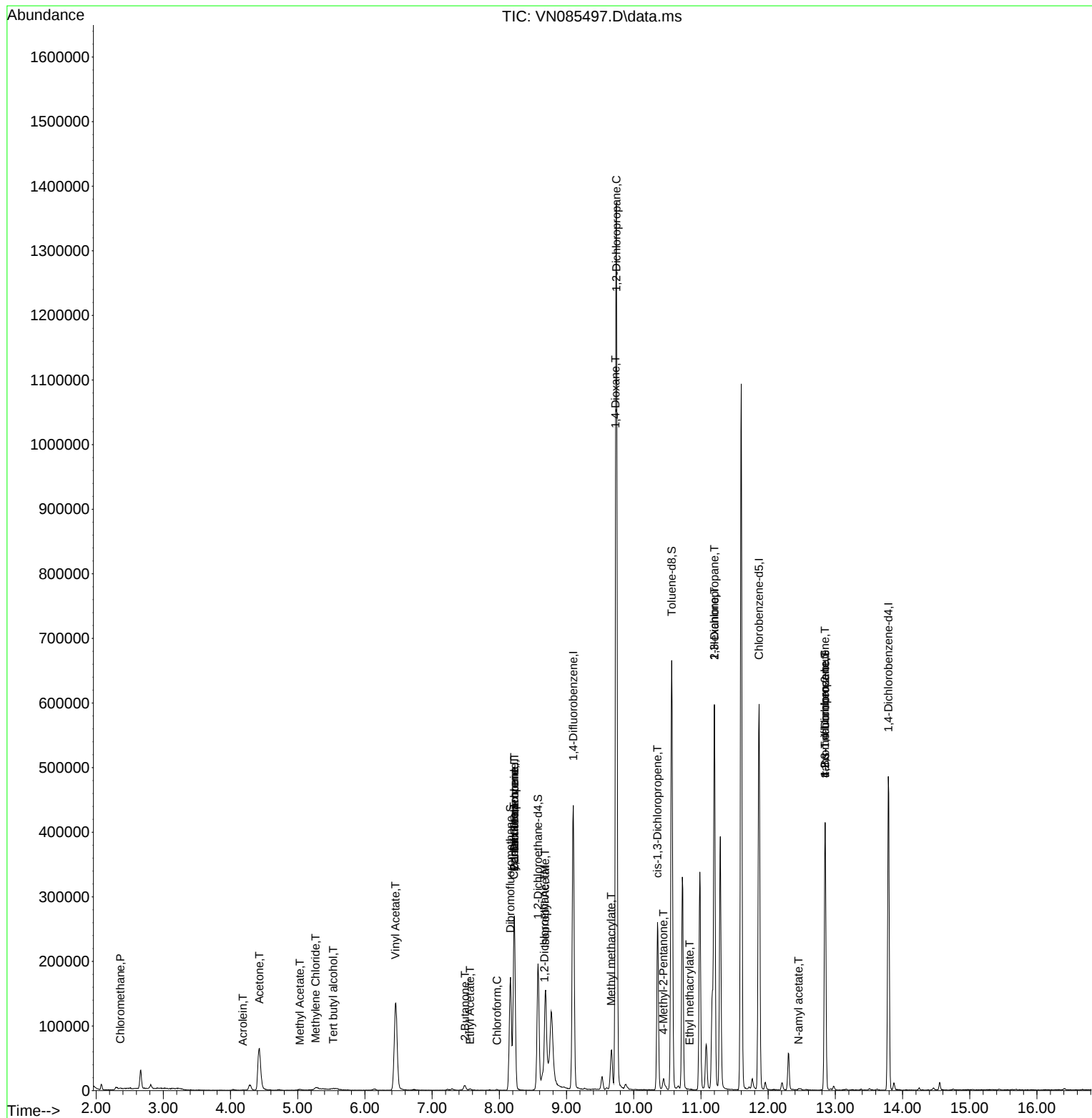
Internal Standards						
1) Pentafluorobenzene	8.224	168	178354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	357752	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	323798	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161451	56.079	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 112.160%	
35) Dibromofluoromethane	8.165	113	119637	48.203	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.400%	
50) Toluene-d8	10.565	98	441325	50.047	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.100%	
62) 4-Bromofluorobenzene	12.847	95	136447	45.234	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 90.460%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	643	0.246	ug/l	93
11) Tert butyl alcohol	5.530	59	1492	4.526	ug/l #	71
13) Acrolein	4.183	56	308	0.684	ug/l #	37
16) Acetone	4.430	43	126672	136.173	ug/l	95
18) Methyl Acetate	5.030	43	3367	1.190	ug/l #	72
20) Methylene Chloride	5.265	84	2444	1.061	ug/l #	79
23) Vinyl Acetate	6.453	43	2941	0.610	ug/l #	72
25) 2-Butanone	7.489	43	12717	9.290	ug/l	96
30) Chloroform	7.965	83	1286	0.296	ug/l	87
31) Cyclohexane	8.218	56	5315	1.455	ug/l #	30
36) 1,1-Dichloropropene	8.224	75	17471	5.016	ug/l #	49
37) Ethyl Acetate	7.565	43	3837	1.091	ug/l #	85
38) Carbon Tetrachloride	8.224	117	20814	5.219	ug/l #	18
42) 1,2-Dichloroethane	8.671	62	1027	0.261	ug/l #	76
43) Isopropyl Acetate	8.683	43	203410	36.106	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1750	0.655	ug/l #	43
48) Methyl methacrylate	9.665	41	4421	1.744	ug/l #	47
49) 1,4-Dioxane	9.730	88	77	1.804	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	16105	4.926	ug/l #	81
54) cis-1,3-Dichloropropene	10.353	75	41683	10.507	ug/l #	69
56) Ethyl methacrylate	10.830	69	125	1.961	ug/l #	23
57) 1,3-Dichloropropane	11.200	76	5718	1.370	ug/l #	43
59) 2-Hexanone	11.200	43	74111	32.218	ug/l #	59
74) N-amyl acetate	12.453	43	1825	0.490	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	77679	31.154	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77679	84.288	ug/l #	3

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

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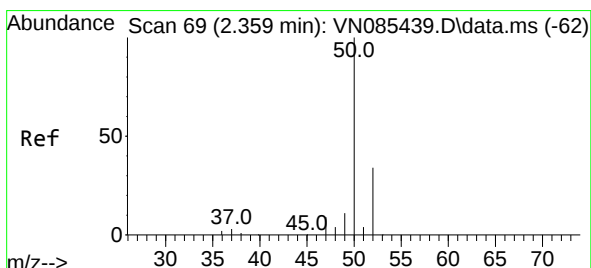
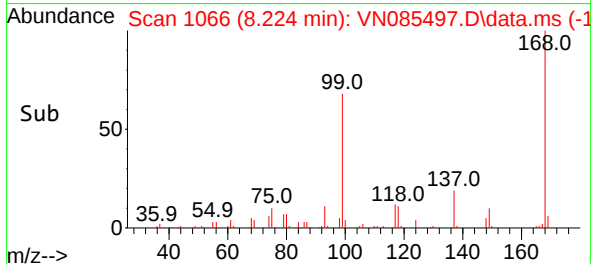
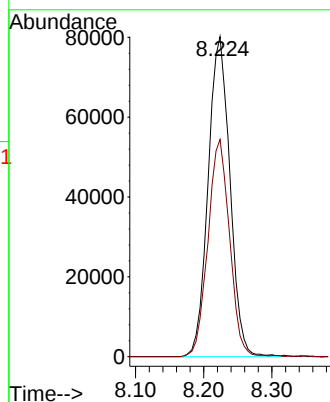
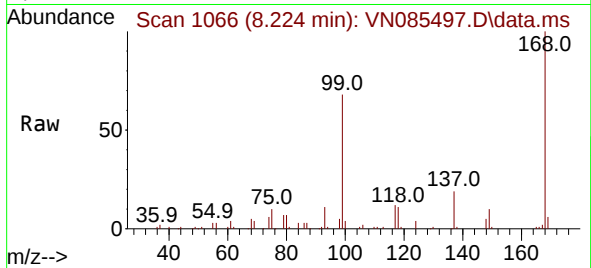




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

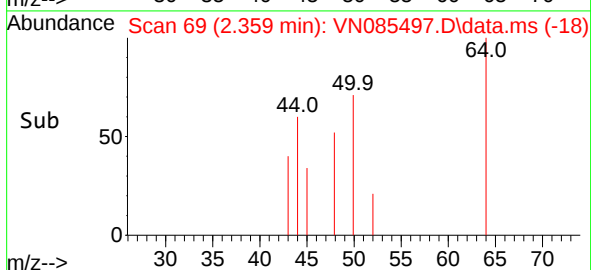
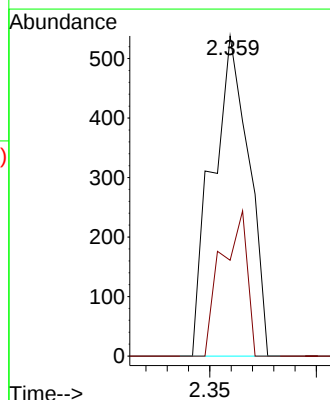
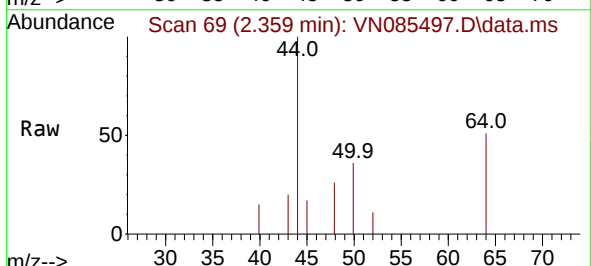
Instrument :
MSVOA_N
ClientSampleId :
72-11995

Tgt Ion:168 Resp: 178354
Ion Ratio Lower Upper
168 100
99 67.9 53.6 80.4



#3
Chloromethane
Concen: 0.246 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 50 Resp: 643
Ion Ratio Lower Upper
50 100
52 29.9 27.0 40.6

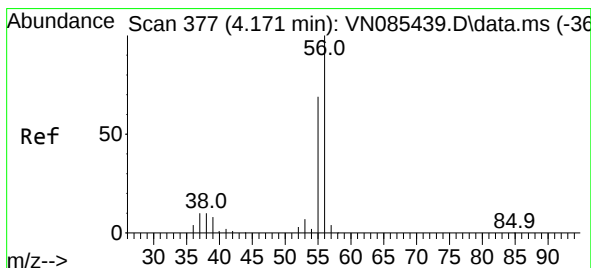
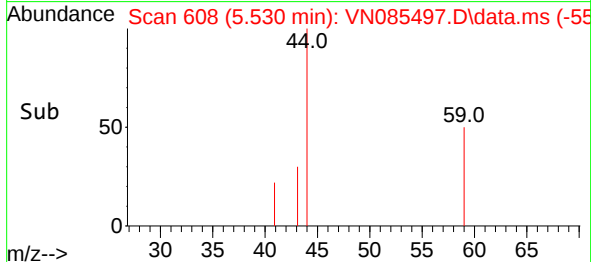
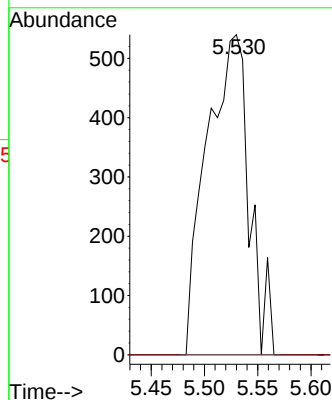
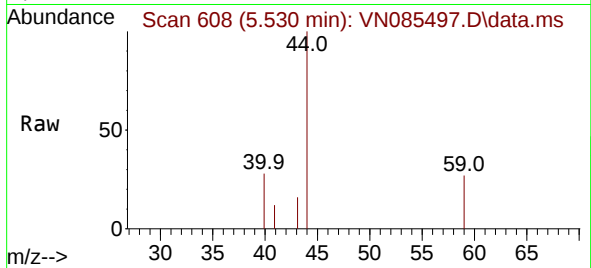




#11
Tert butyl alcohol
Concen: 4.526 ug/l
RT: 5.530 min Scan# 605
Delta R.T. 0.018 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

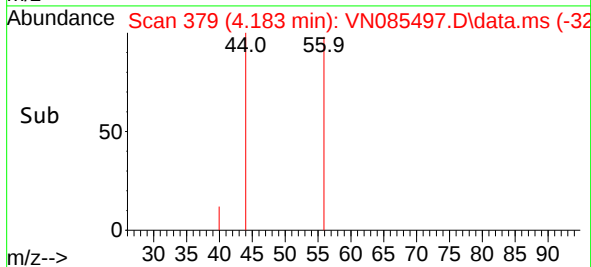
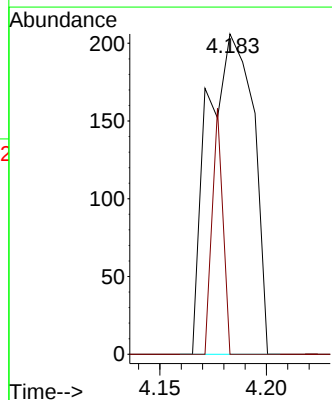
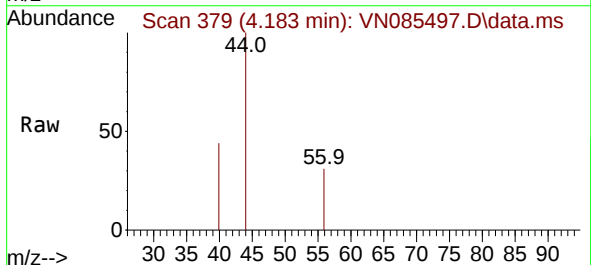
Instrument :
MSVOA_N
ClientSampleId :
72-11995

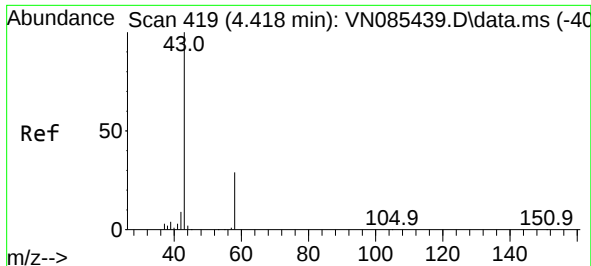
Tgt Ion: 59 Resp: 1492
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#13
Acrolein
Concen: 0.684 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 56 Resp: 308
Ion Ratio Lower Upper
56 100
55 18.2 56.3 84.5#

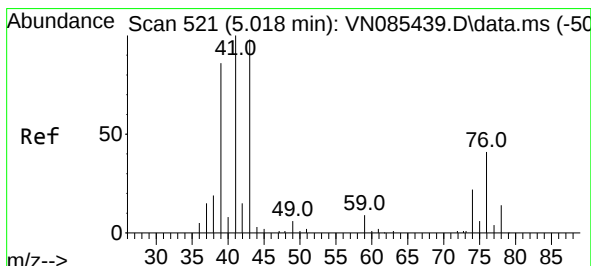
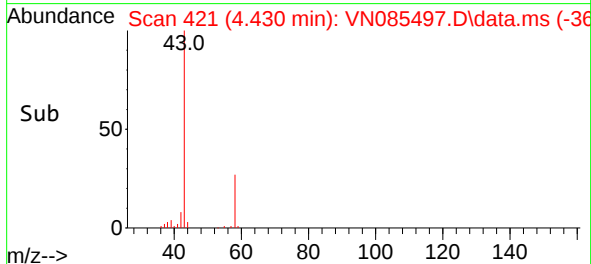
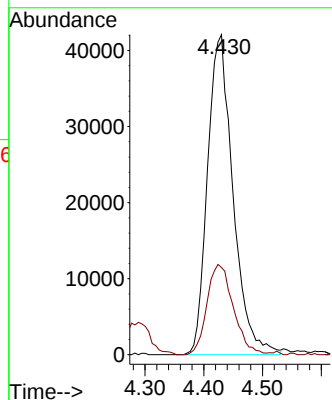
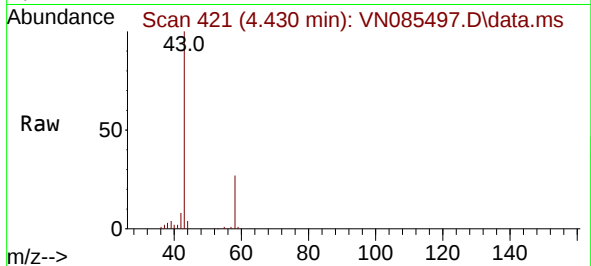




#16
Acetone
Concen: 136.173 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

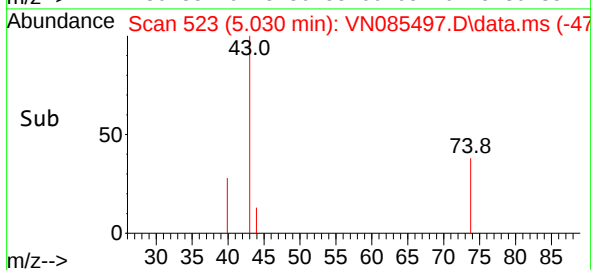
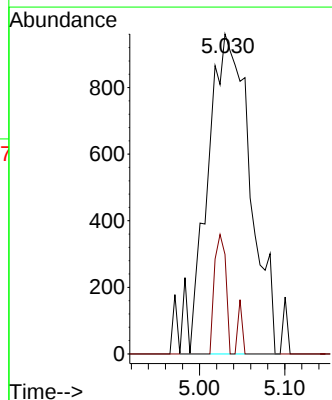
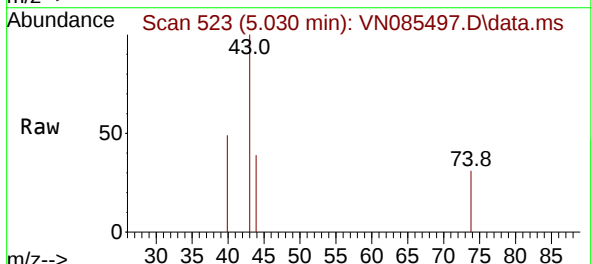
Instrument :
MSVOA_N
ClientSampleId :
72-11995

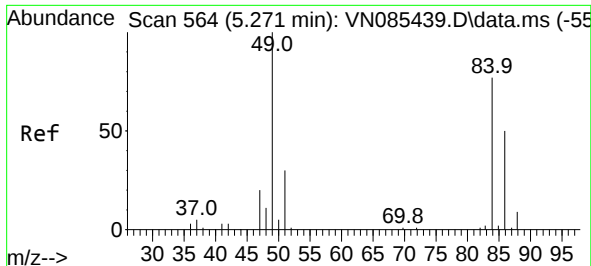
Tgt Ion: 43 Resp: 126672
Ion Ratio Lower Upper
43 100
58 27.3 23.8 35.6



#18
Methyl Acetate
Concen: 1.190 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

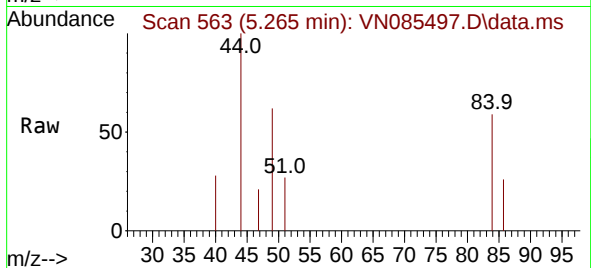
Tgt Ion: 43 Resp: 3367
Ion Ratio Lower Upper
43 100
74 9.9 18.6 28.0#



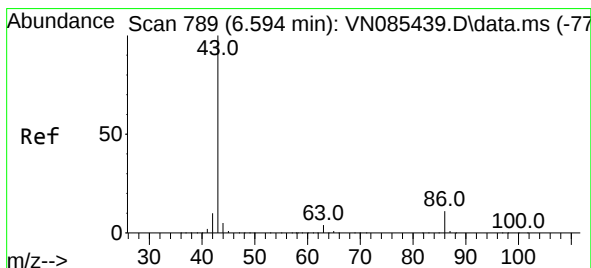
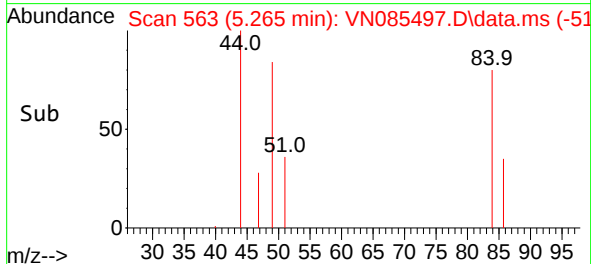
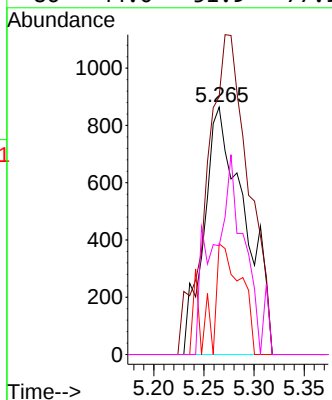


#20
Methylene Chloride
Concen: 1.061 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Instrument :
MSVOA_N
ClientSampleId :
72-11995

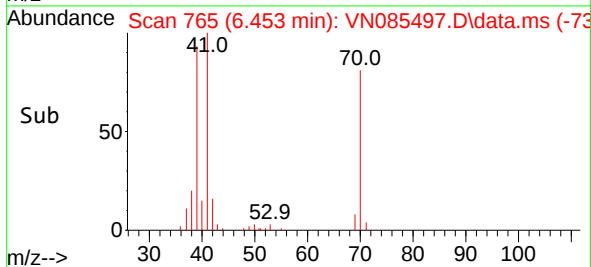
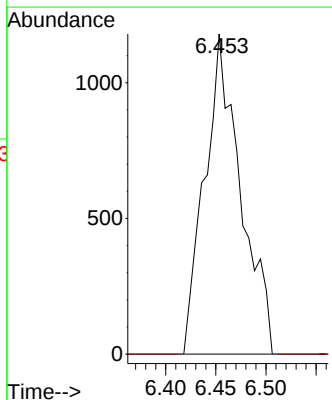
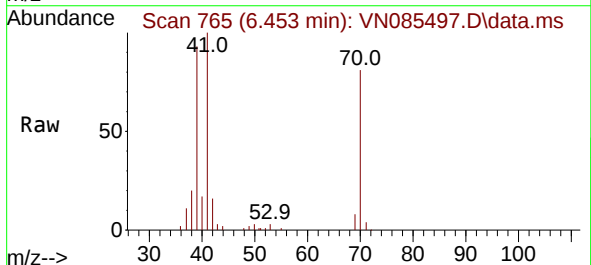


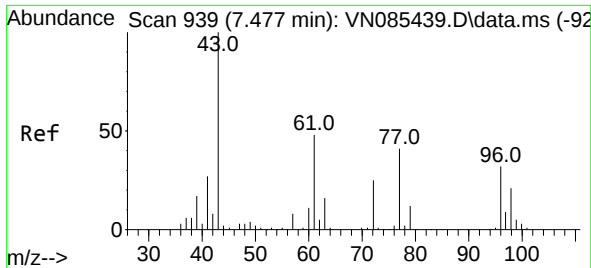
Tgt Ion:	84	Resp:	2444
Ion	Ratio	Lower	Upper
84	100		
49	104.2	104.1	156.1
51	44.8	31.0	46.4
86	44.0	51.9	77.9



#23
Vinyl Acetate
Concen: 0.610 ug/l
RT: 6.453 min Scan# 765
Delta R.T. -0.141 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion:	43	Resp:	2941
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.4	12.6

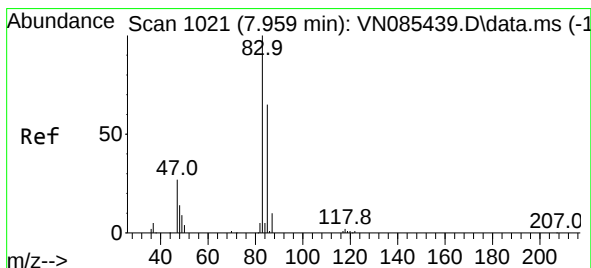
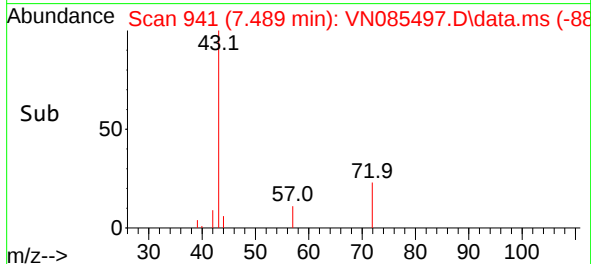
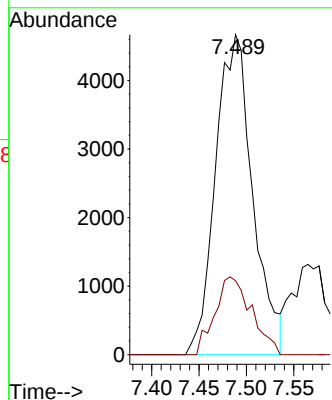
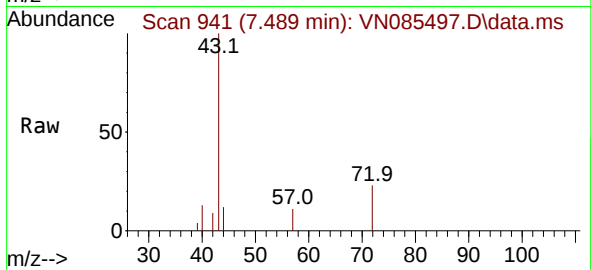




#25
2-Butanone
Concen: 9.290 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

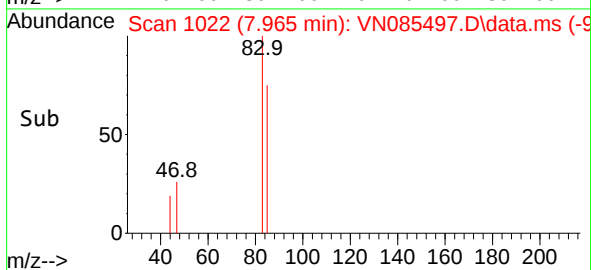
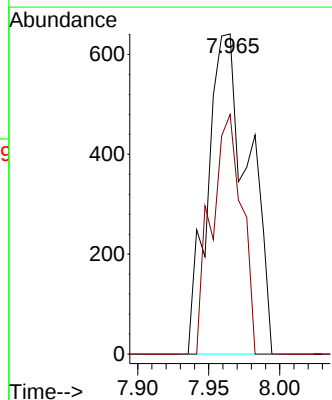
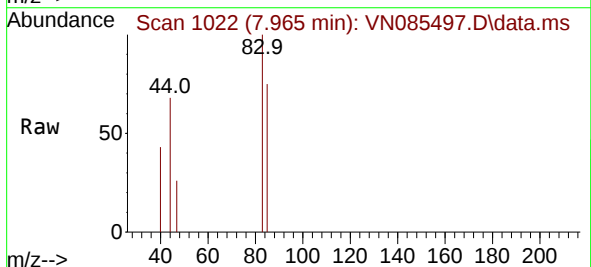
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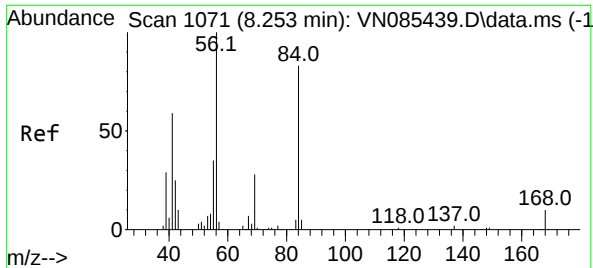
Tgt Ion: 43 Resp: 12717
Ion Ratio Lower Upper
43 100
72 23.1 20.2 30.4



#30
Chloroform
Concen: 0.296 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 83 Resp: 1286
Ion Ratio Lower Upper
83 100
85 74.9 51.8 77.6

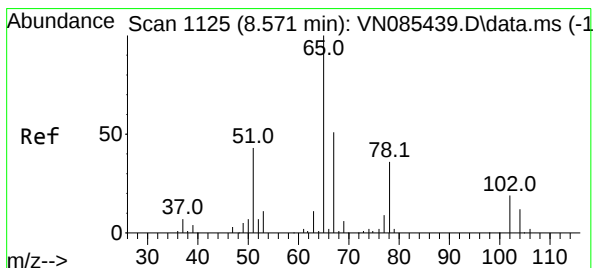
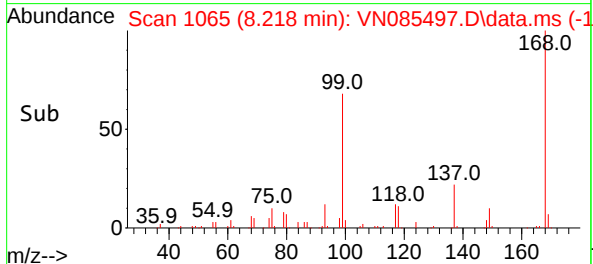
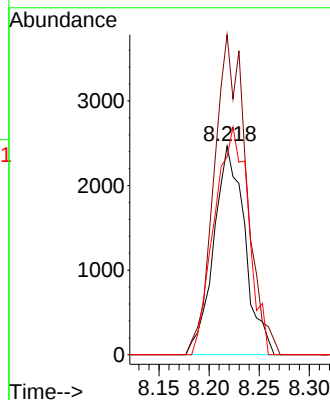
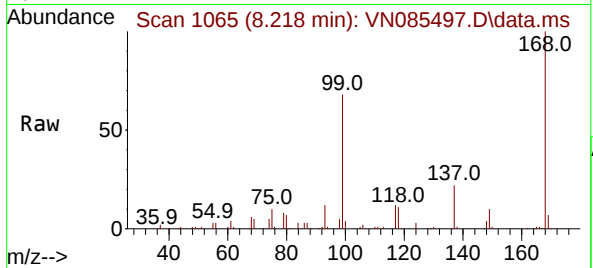




#31
Cyclohexane
Concen: 1.455 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

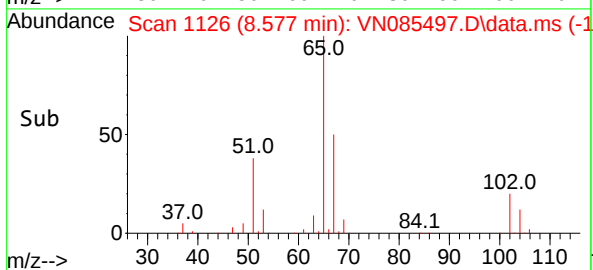
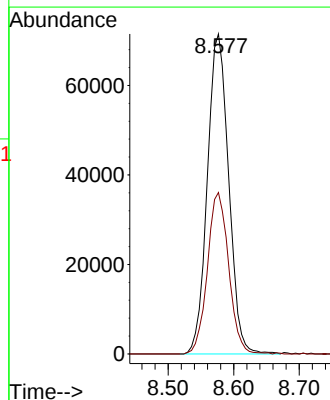
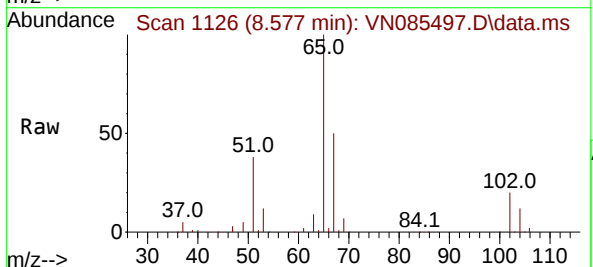
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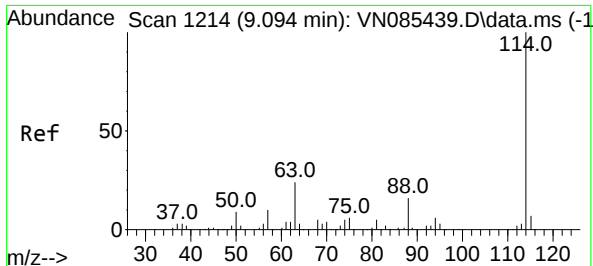
Tgt Ion: 56 Resp: 5315
Ion Ratio Lower Upper
56 100
69 153.5 22.2 33.4#
84 94.8 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 56.079 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 65 Resp: 161451
Ion Ratio Lower Upper
65 100
67 50.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

Instrument :

MSVOA_N

ClientSampleId :

72-11995

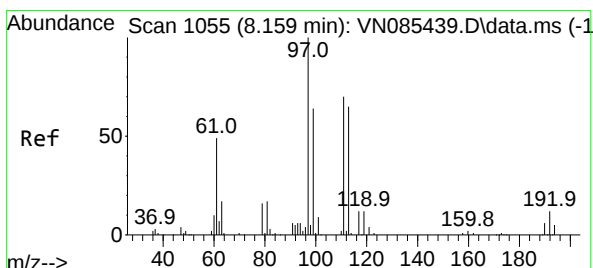
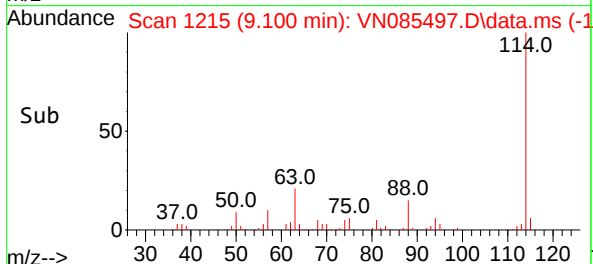
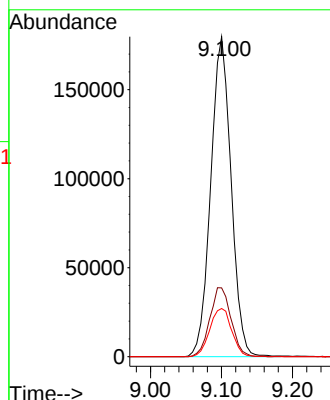
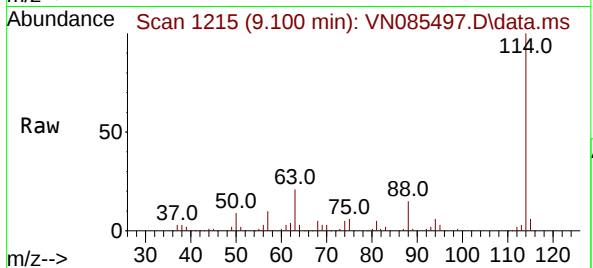
Tgt Ion:114 Resp: 357752

Ion Ratio Lower Upper

114 100

63 21.5 0.0 47.6

88 15.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.203 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

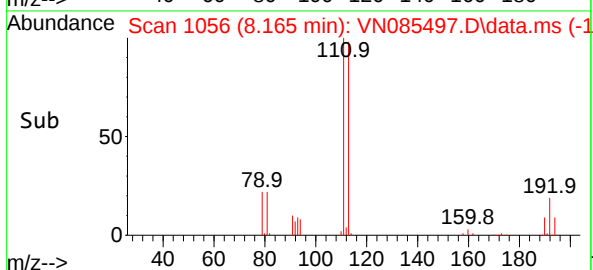
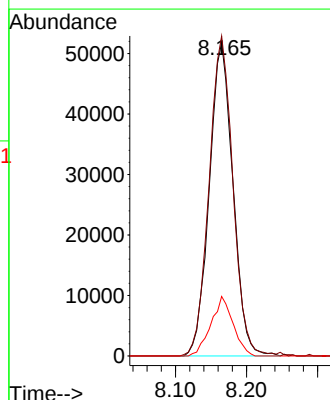
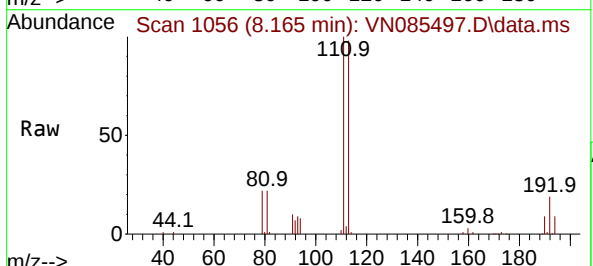
Tgt Ion:113 Resp: 119637

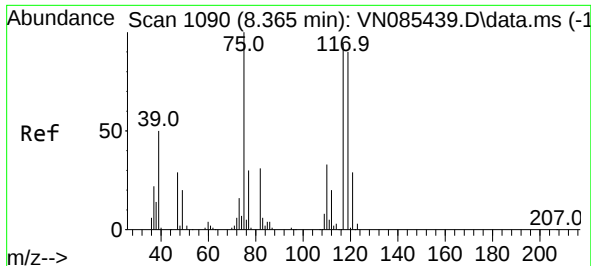
Ion Ratio Lower Upper

113 100

111 103.2 82.7 124.1

192 17.8 14.3 21.5

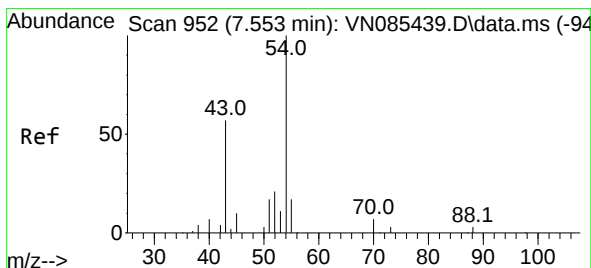
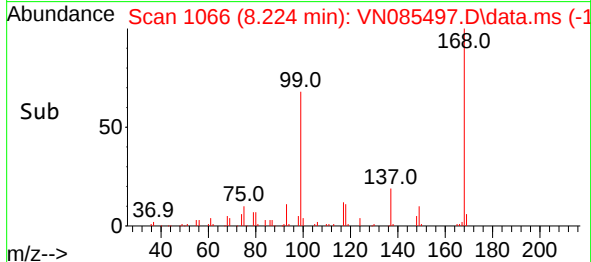
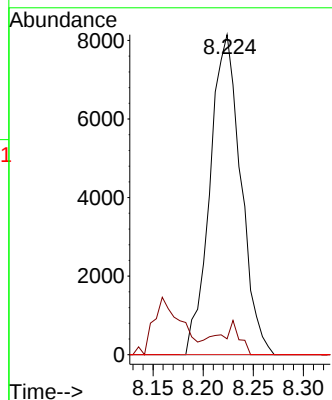
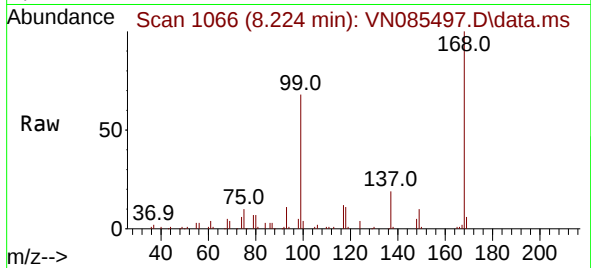




#36
1,1-Dichloropropene
Concen: 5.016 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

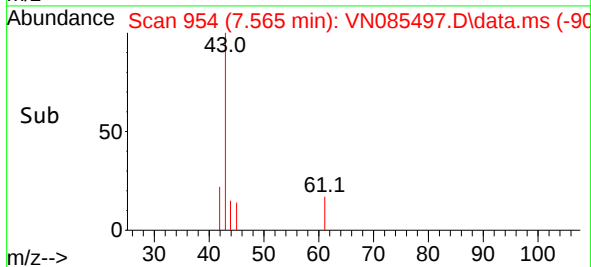
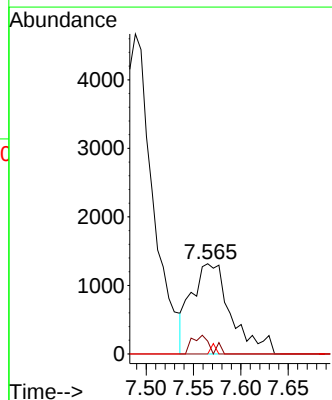
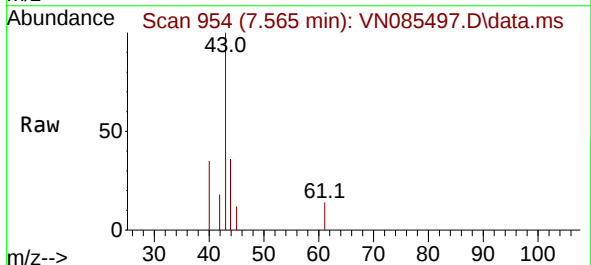
Instrument :
MSVOA_N
ClientSampleId :
72-11995

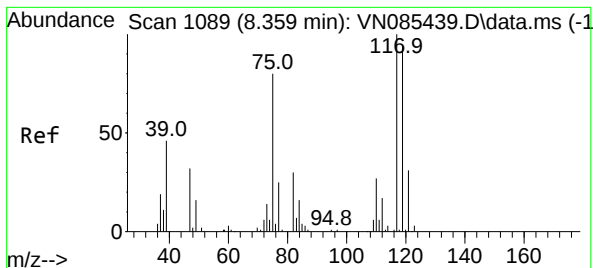
Tgt Ion: 75 Resp: 17471
Ion Ratio Lower Upper
75 100
110 7.0 16.5 49.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.091 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.012 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 43 Resp: 3837
Ion Ratio Lower Upper
43 100
61 9.7 10.9 16.3#
70 1.4 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 5.219 ug/l

RT: 8.224 min Scan# 11066

Delta R.T. -0.135 min

Lab File: VN085497.D

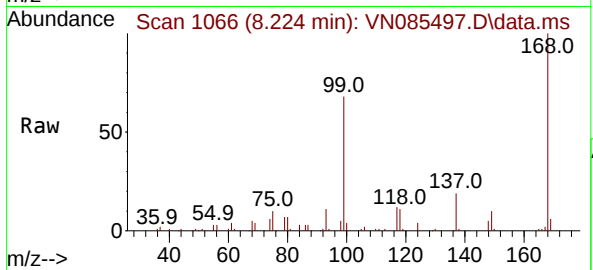
Acq: 17 Jan 2025 16:48

Instrument :

MSVOA_N

ClientSampleId :

72-11995



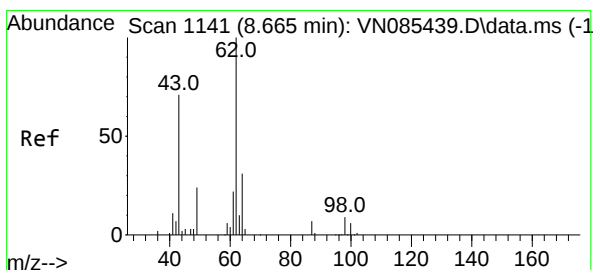
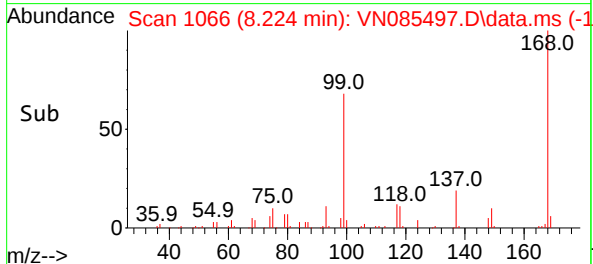
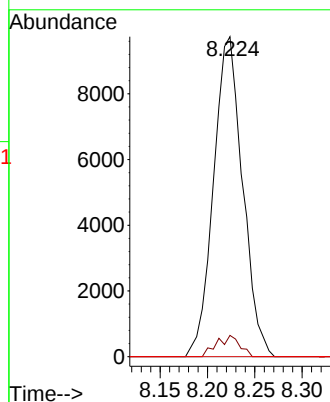
Tgt Ion:117 Resp: 20814

Ion Ratio Lower Upper

117 100

119 6.6 75.4 113.2#

121 0.0 24.6 37.0#



#42

1,2-Dichloroethane

Concen: 0.261 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085497.D

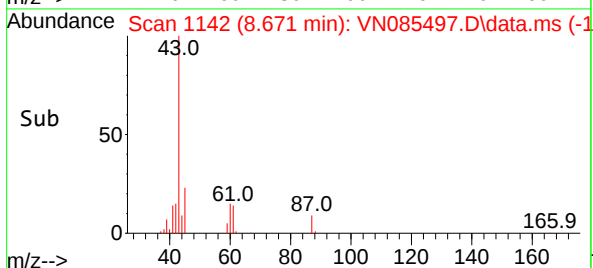
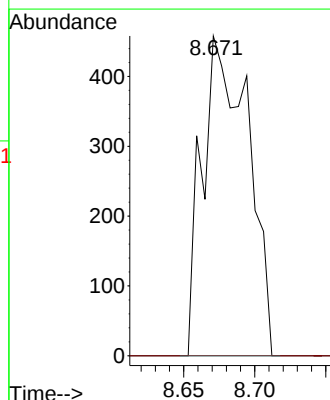
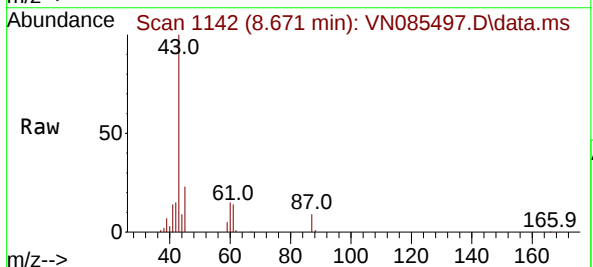
Acq: 17 Jan 2025 16:48

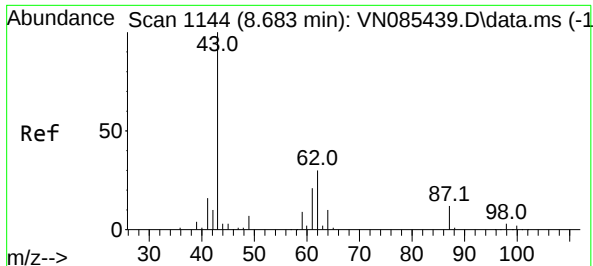
Tgt Ion: 62 Resp: 1027

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0





#43

Isopropyl Acetate

Concen: 36.106 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

Instrument :

MSVOA_N

ClientSampleId :

72-11995

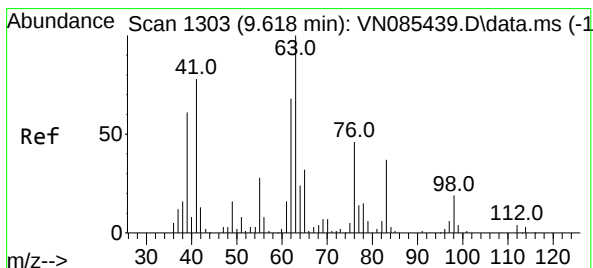
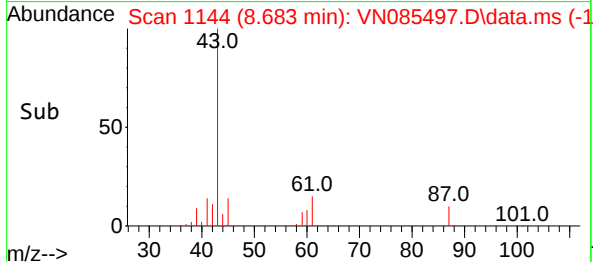
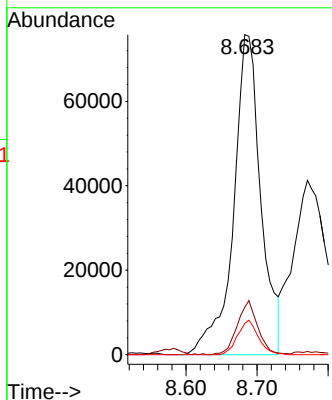
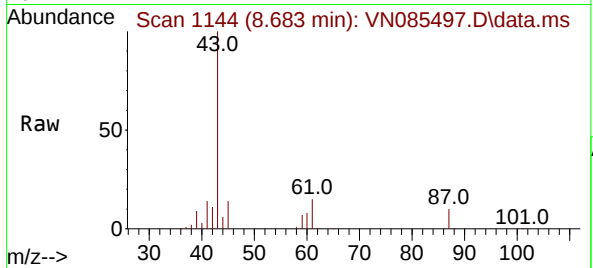
Tgt Ion: 43 Resp: 203410

Ion Ratio Lower Upper

43 100

61 12.7 20.7 31.1#

87 8.1 9.8 14.8#



#45

1,2-Dichloropropane

Concen: 0.655 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN085497.D

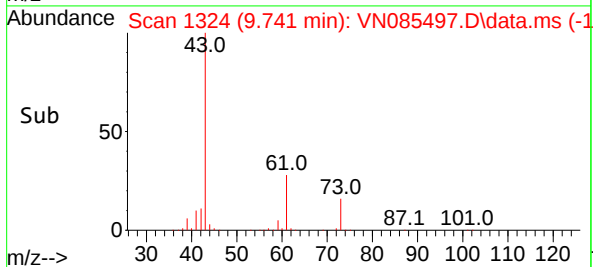
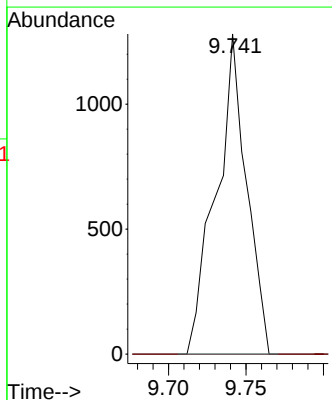
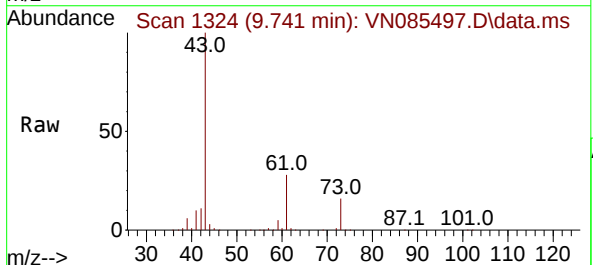
Acq: 17 Jan 2025 16:48

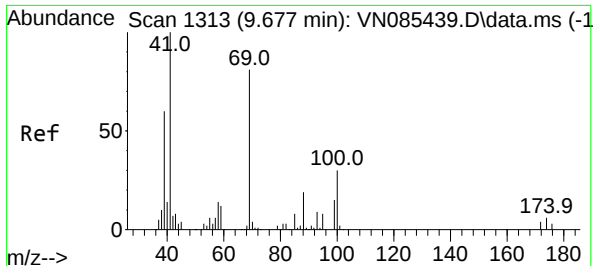
Tgt Ion: 63 Resp: 1750

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#





#48

Methyl methacrylate

Concen: 1.744 ug/l

RT: 9.665 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

Instrument :

MSVOA_N

ClientSampleId :

72-11995

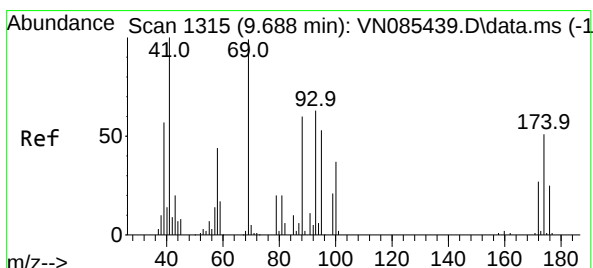
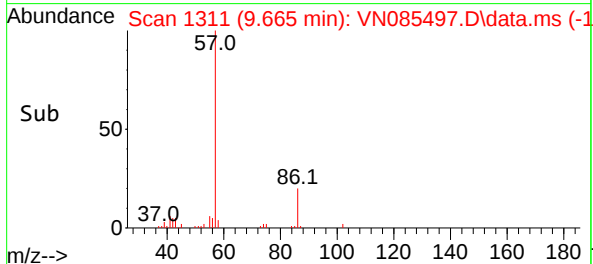
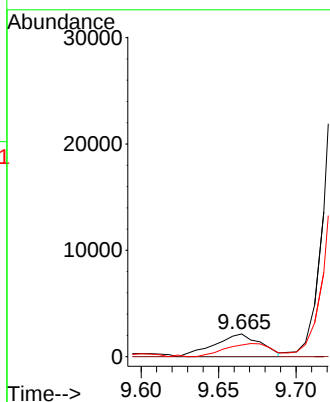
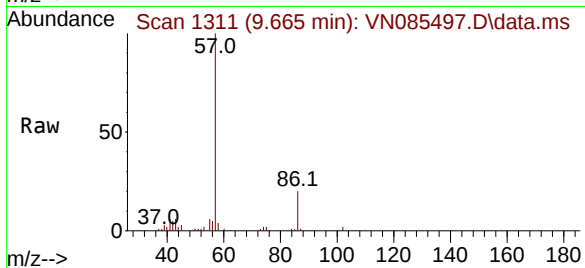
Tgt Ion: 41 Resp: 4421

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 58.8 49.0 73.6



#49

1,4-Dioxane

Concen: 1.804 ug/l

RT: 9.730 min Scan# 1322

Delta R.T. 0.041 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

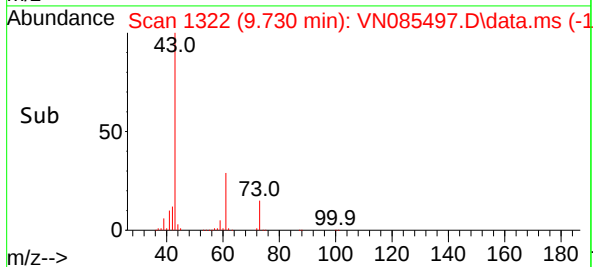
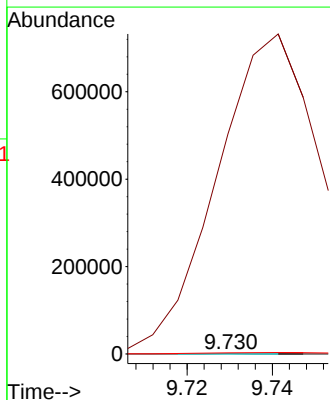
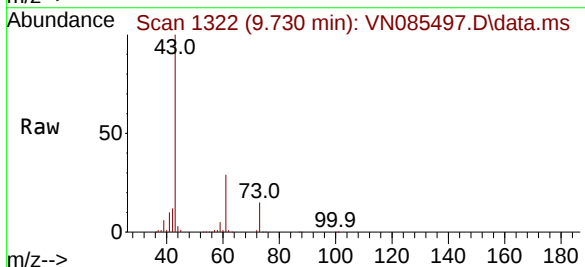
Tgt Ion: 88 Resp: 77

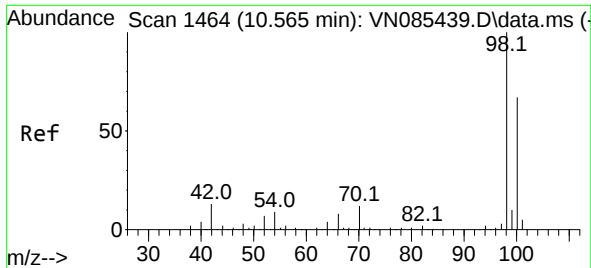
Ion Ratio Lower Upper

88 100

43 1686368.8 26.6 39.8#

58 8709.1 59.5 89.3#

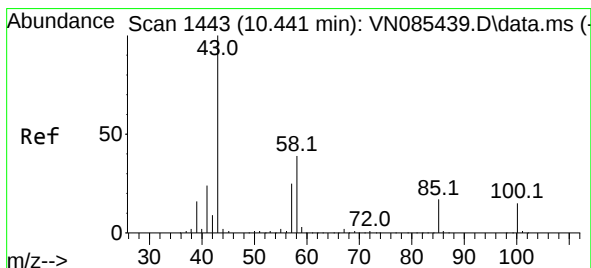
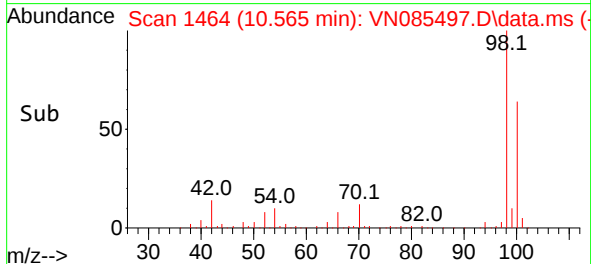
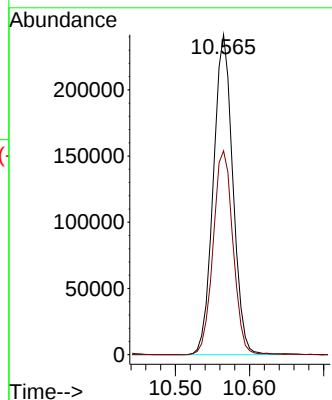
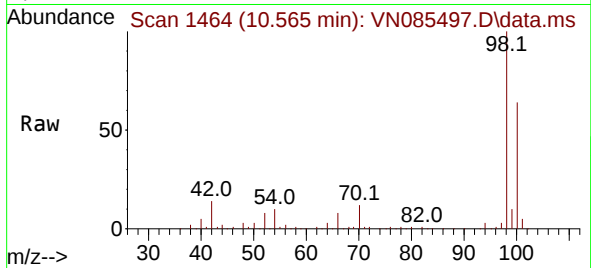




#50
Toluene-d8
Concen: 50.047 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

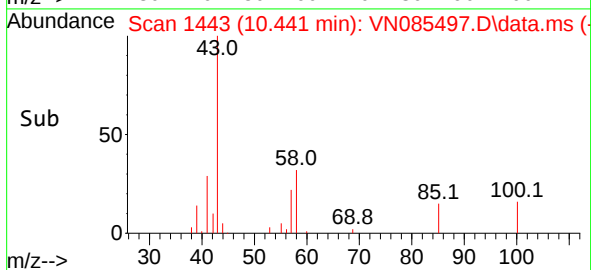
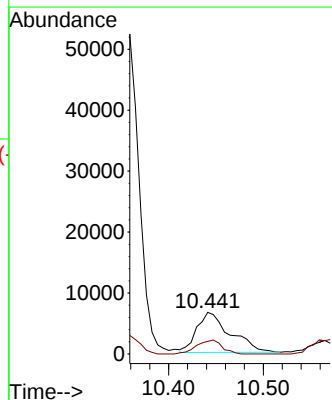
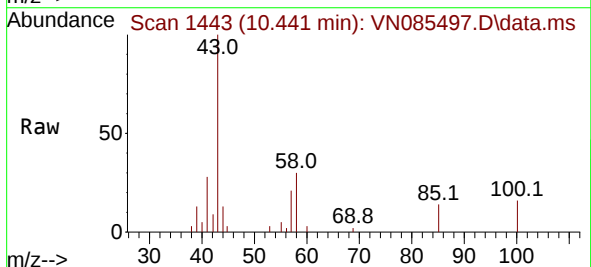
Instrument :
MSVOA_N
ClientSampleId :
72-11995

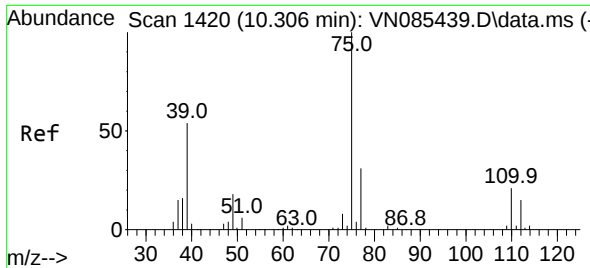
Tgt Ion: 98 Resp: 441325
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 4.926 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 43 Resp: 16105
Ion Ratio Lower Upper
43 100
58 26.4 30.5 45.7#

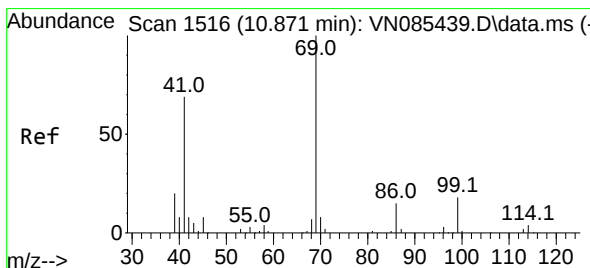
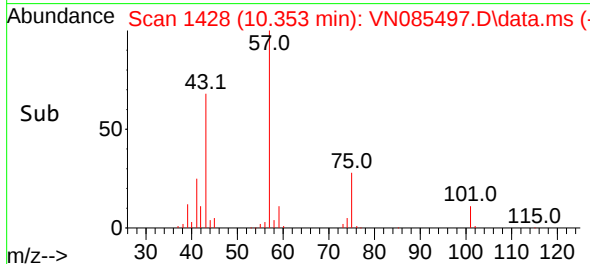
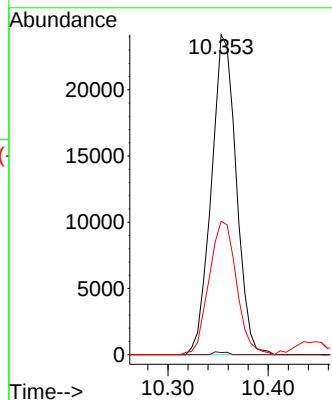
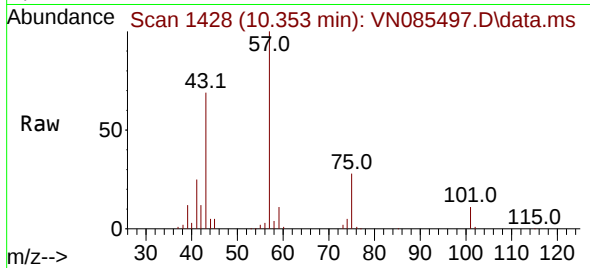




#54
cis-1,3-Dichloropropene
Concen: 10.507 ug/l
RT: 10.353 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

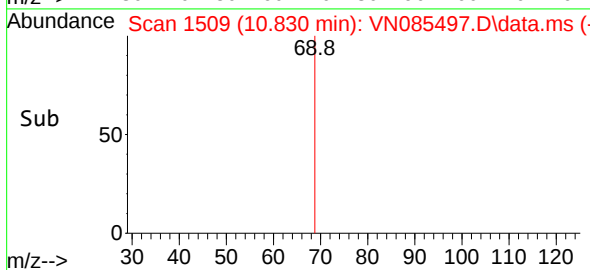
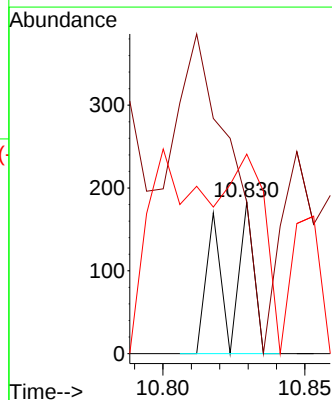
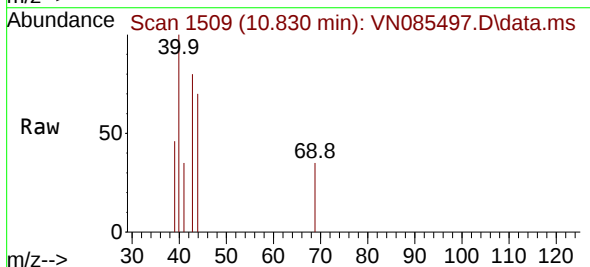
Instrument :
MSVOA_N
ClientSampleId :
72-11995

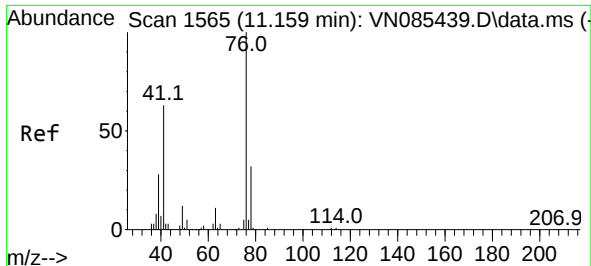
Tgt Ion: 75 Resp: 41683
Ion Ratio Lower Upper
75 100
77 0.7 25.0 37.4#
39 41.7 43.1 64.7#



#56
Ethyl methacrylate
Concen: 1.961 ug/l
RT: 10.830 min Scan# 1509
Delta R.T. -0.041 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 69 Resp: 125
Ion Ratio Lower Upper
69 100
41 0.0 54.6 82.0#
39 0.0 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.370 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085497.D

Acq: 17 Jan 2025 16:48

Instrument :

MSVOA_N

ClientSampleId :

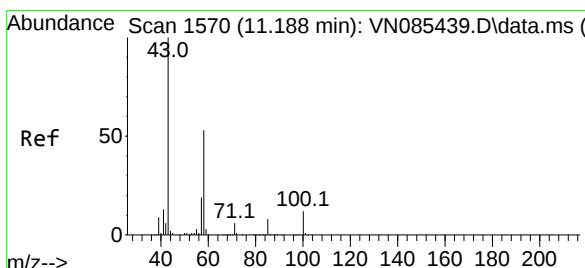
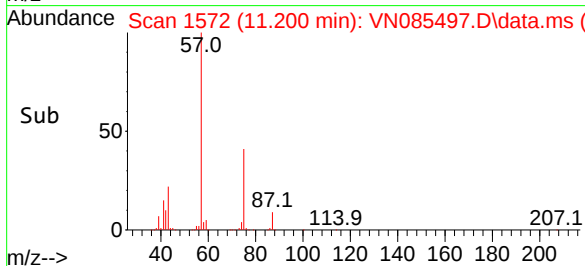
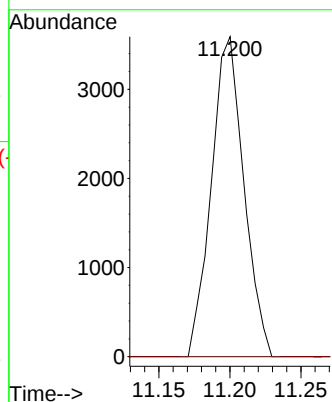
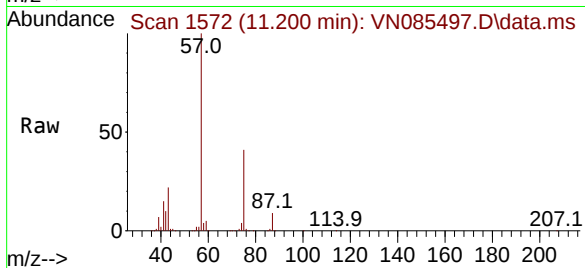
72-11995

Tgt Ion: 76 Resp: 5718

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 32.218 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085497.D

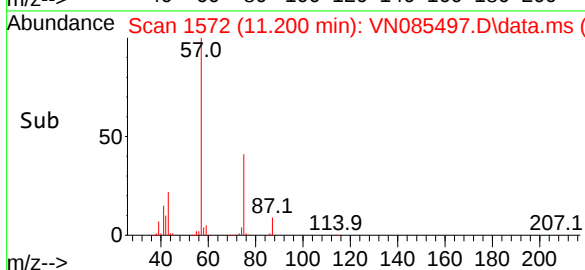
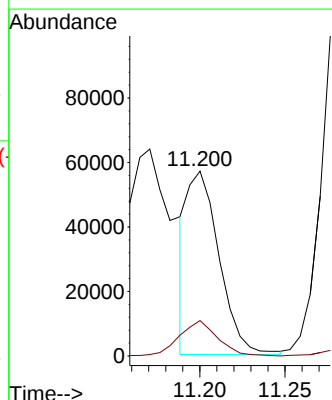
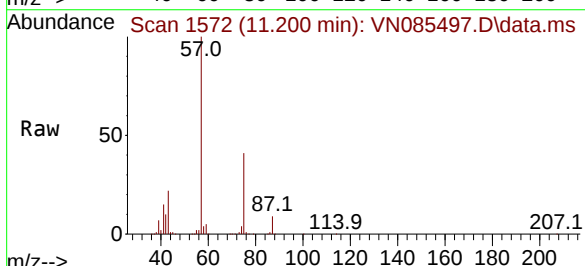
Acq: 17 Jan 2025 16:48

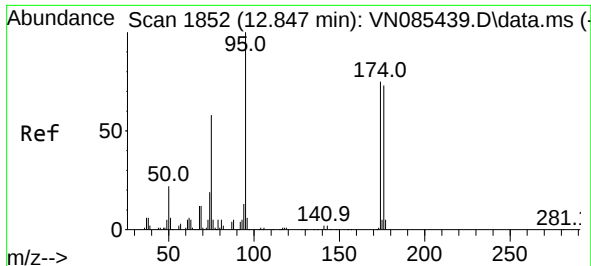
Tgt Ion: 43 Resp: 74111

Ion Ratio Lower Upper

43 100

58 23.2 26.2 78.6#

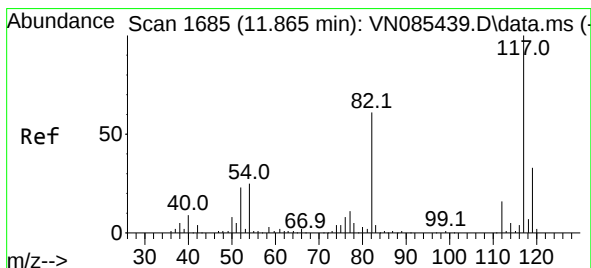
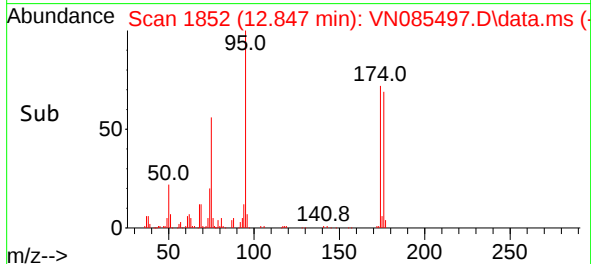
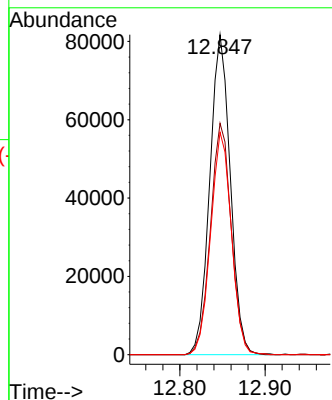
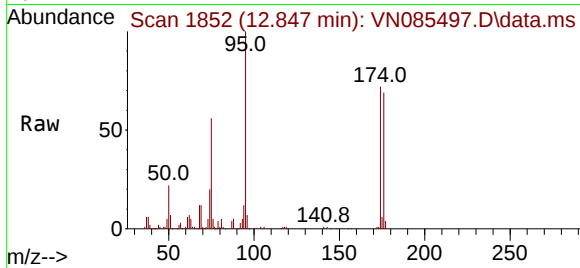




#62
4-Bromofluorobenzene
Concen: 45.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

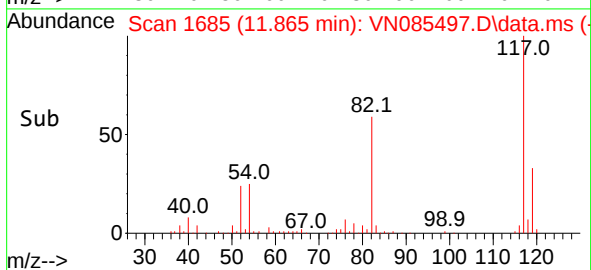
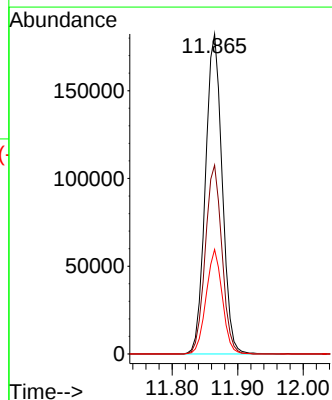
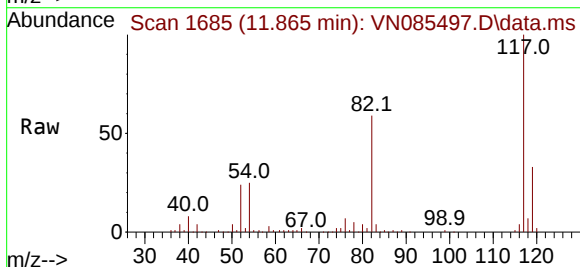
Instrument :
MSVOA_N
ClientSampleId :
72-11995

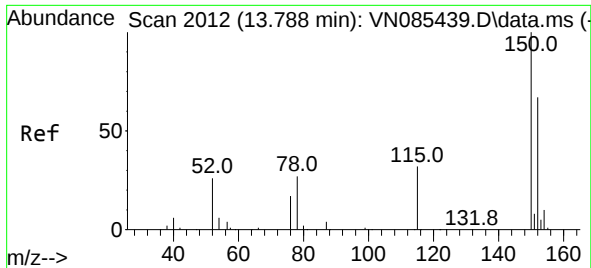
Tgt Ion: 95 Resp: 136447
Ion Ratio Lower Upper
95 100
174 73.5 0.0 145.0
176 70.2 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 117 Resp: 323798
Ion Ratio Lower Upper
117 100
82 59.0 48.6 72.8
119 32.6 26.6 39.8

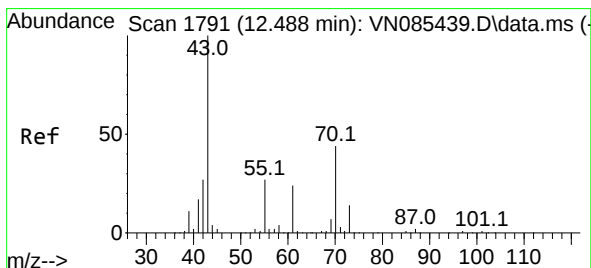
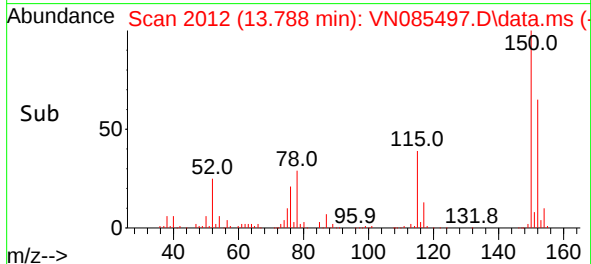
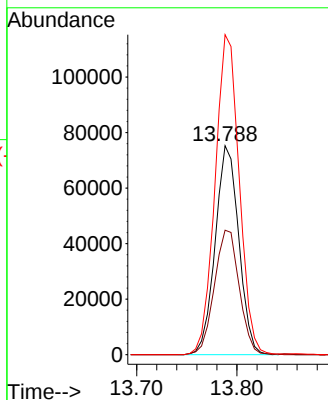
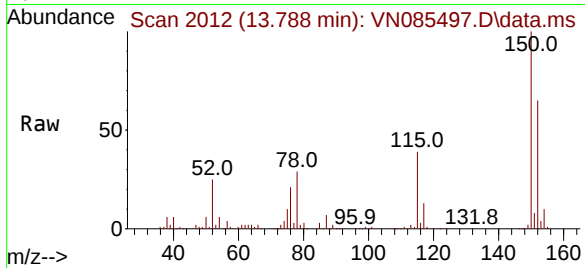




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN085497.D
 Acq: 17 Jan 2025 16:48

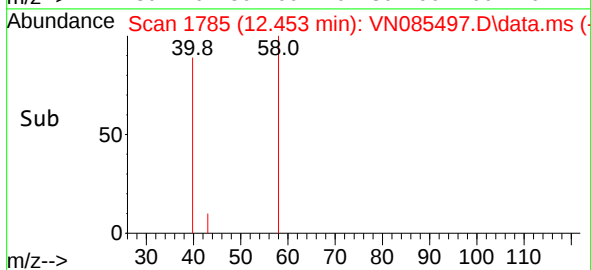
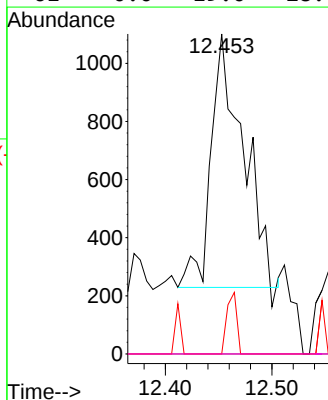
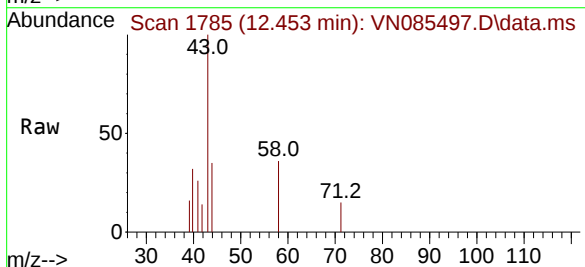
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11995

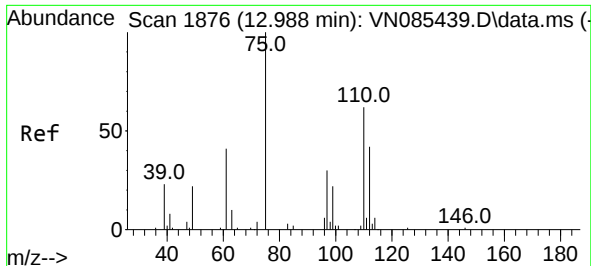
Tgt Ion:152 Resp: 122676
 Ion Ratio Lower Upper
 152 100
 115 62.9 31.1 93.3
 150 156.9 0.0 343.6



#74
 N-ethyl acetate
 Concen: 0.490 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.035 min
 Lab File: VN085497.D
 Acq: 17 Jan 2025 16:48

Tgt Ion: 43 Resp: 1825
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 7.3 21.4 32.2#
 61 0.0 19.0 28.4#

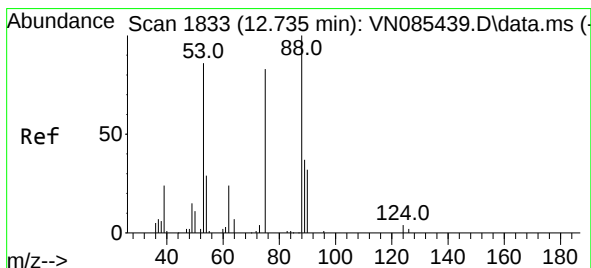
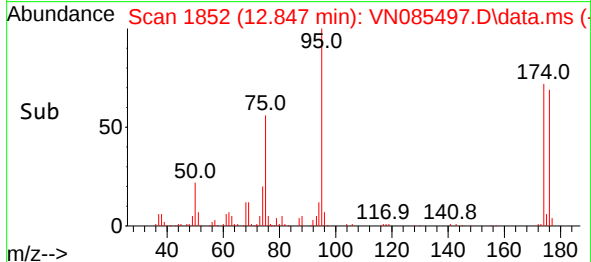
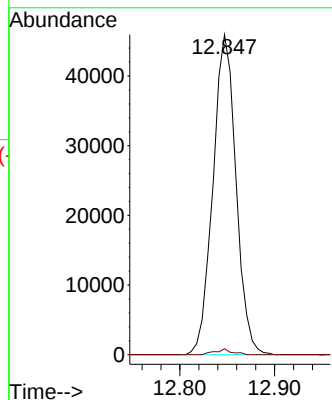
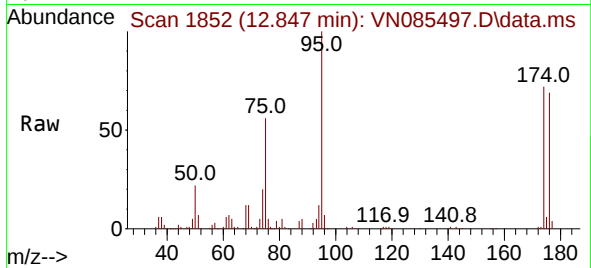




#76
1,2,3-Trichloropropane
Concen: 31.154 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Instrument :
MSVOA_N
ClientSampleId :
72-11995

Tgt Ion: 75 Resp: 77679
Ion Ratio Lower Upper
75 100
77 1.3 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 84.288 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085497.D
Acq: 17 Jan 2025 16:48

Tgt Ion: 75 Resp: 77679
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#

