

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085811.D
 Acq On : 21 Feb 2025 18:39
 Operator : JC\MD
 Sample : PB166809ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166809ZHE#04

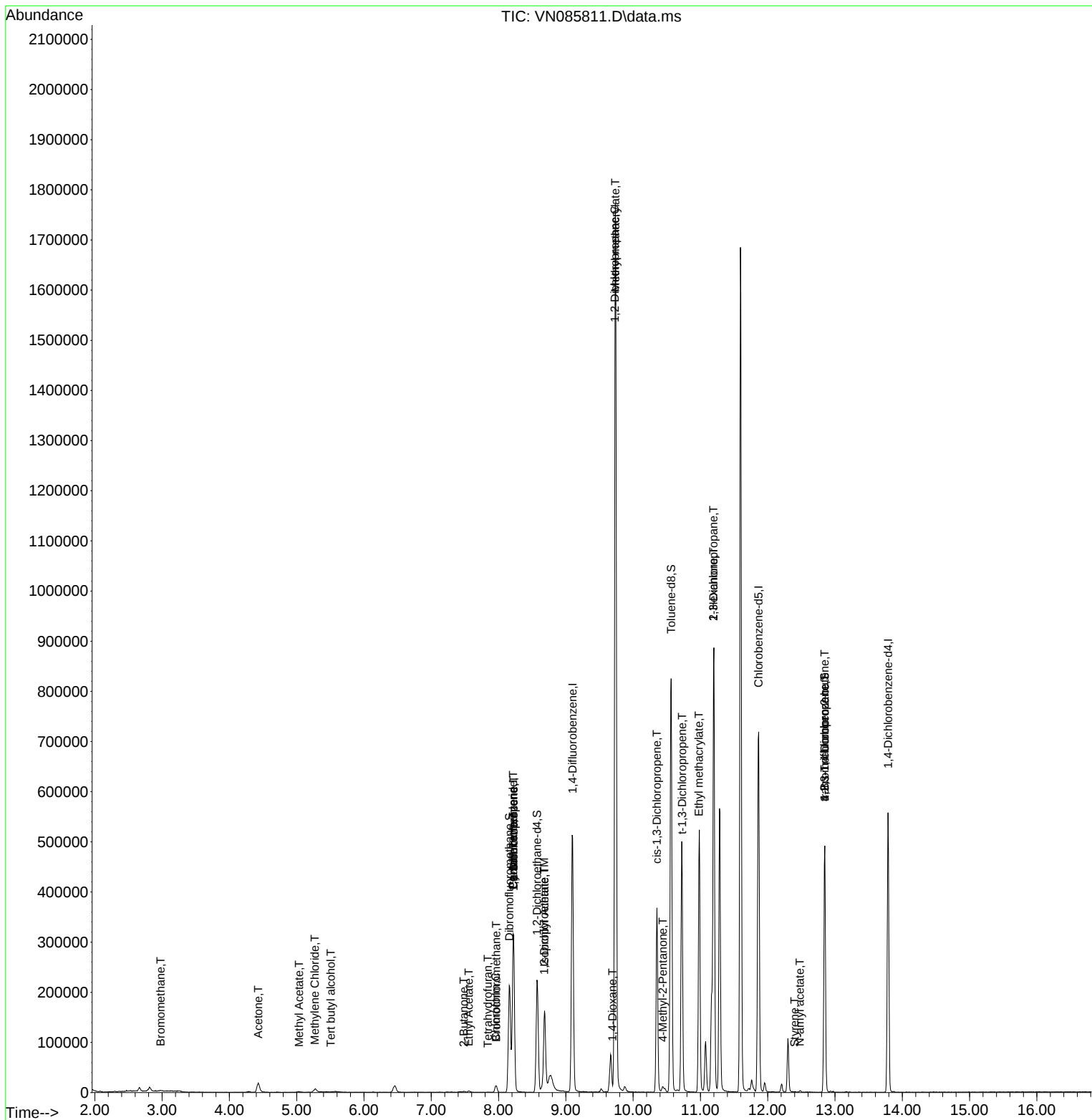
Quant Time: Feb 22 02:39:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

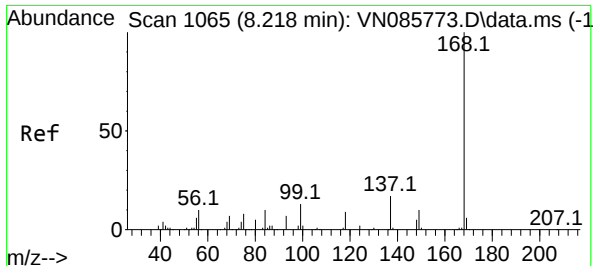
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	230435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	453942	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	432809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151947	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	182659	61.141	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 122.280%	
35) Dibromofluoromethane	8.159	113	159146	53.578	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.160%	
50) Toluene-d8	10.565	98	598318	55.363	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 110.720%	
62) 4-Bromofluorobenzene	12.847	95	173981	48.861	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 97.720%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	643	0.302	ug/l #	79
11) Tert butyl alcohol	5.506	59	96	0.261	ug/l #	72
16) Acetone	4.430	43	35056	37.084	ug/l	99
18) Methyl Acetate	5.036	43	2788	0.857	ug/l #	56
20) Methylene Chloride	5.271	84	5012	1.649	ug/l	93
25) 2-Butanone	7.483	43	3157	2.270	ug/l #	87
28) Bromochloromethane	7.965	49	1023	0.488	ug/l #	9
29) Tetrahydrofuran	7.841	42	228	0.254	ug/l #	29
30) Chloroform	7.959	83	14079	2.644	ug/l	88
31) Cyclohexane	8.218	56	5076	1.190	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18757	4.462	ug/l #	49
37) Ethyl Acetate	7.559	43	3977	1.150	ug/l #	90
38) Carbon Tetrachloride	8.218	117	24445	4.894	ug/l #	18
42) 1,2-Dichloroethane	8.677	62	1079	0.246	ug/l #	73
43) Isopropyl Acetate	8.683	43	181470	29.667	ug/l #	87
45) 1,2-Dichloropropane	9.730	63	2482	0.763	ug/l #	43
48) Methyl methacrylate	9.736	41	160101	62.314	ug/l #	36
49) 1,4-Dioxane	9.694	88	59	1.208	ug/l #	24
51) 4-Methyl-2-Pentanone	10.441	43	6560	1.967	ug/l	98
53) t-1,3-Dichloropropene	10.730	75	1188	0.262	ug/l	95
54) cis-1,3-Dichloropropene	10.353	75	63627	12.785	ug/l #	67
56) Ethyl methacrylate	10.977	69	3039	1.210	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	10072	1.921	ug/l #	42
59) 2-Hexanone	11.194	43	113130	49.302	ug/l #	51
70) Styrene	12.400	104	69	0.592	ug/l #	26
74) N-amyl acetate	12.477	43	2030	0.553	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	85373	25.294	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85373	73.801	ug/l #	13

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

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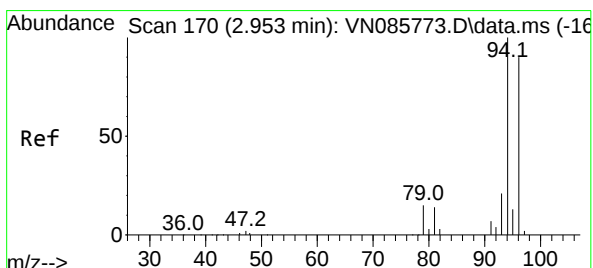
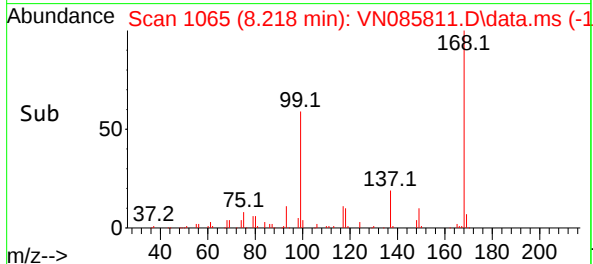
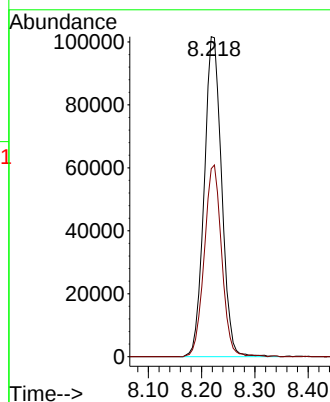
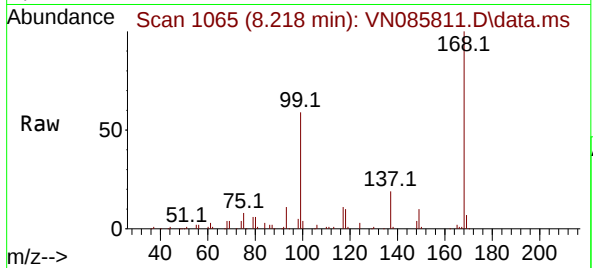




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

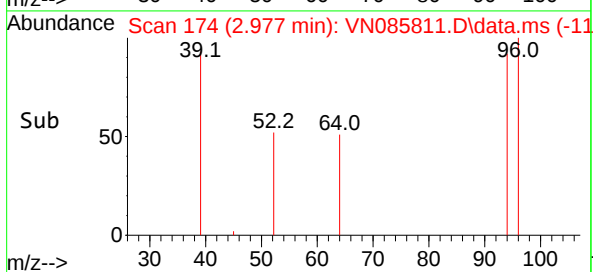
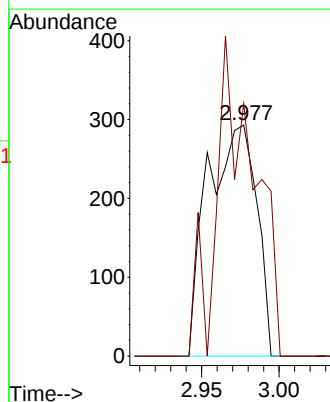
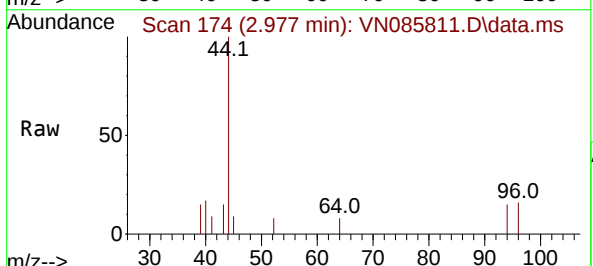
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

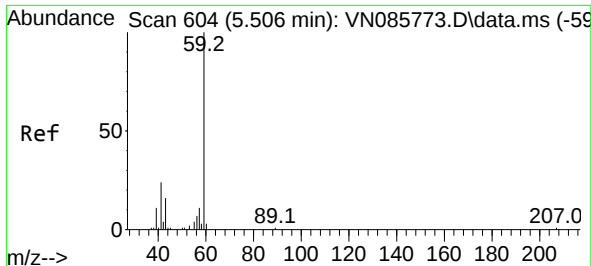
Tgt Ion:168 Resp: 230435
Ion Ratio Lower Upper
168 100
99 58.8 47.9 71.9



#5
Bromomethane
Concen: 0.302 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.024 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 94 Resp: 643
Ion Ratio Lower Upper
94 100
96 109.2 71.7 107.5#

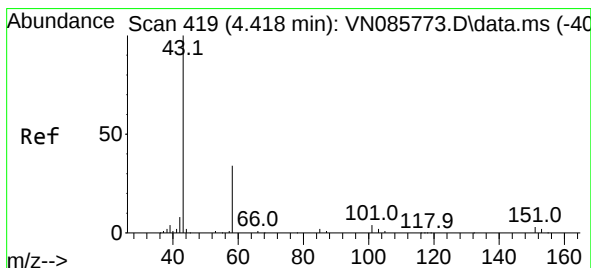
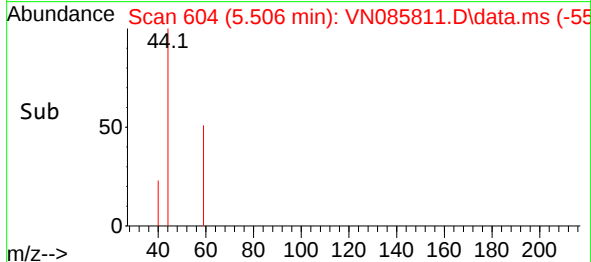
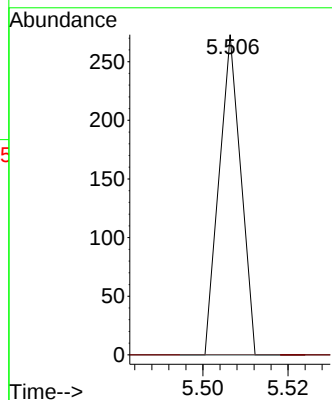
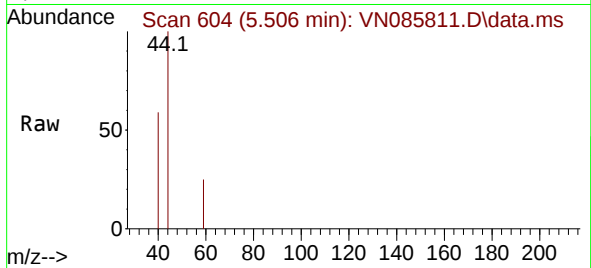




#11
Tert butyl alcohol
Concen: 0.261 ug/l
RT: 5.506 min Scan# 604
Delta R.T. 0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

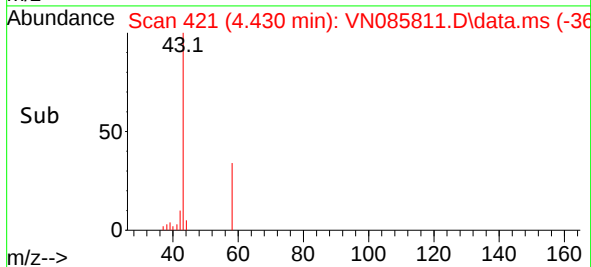
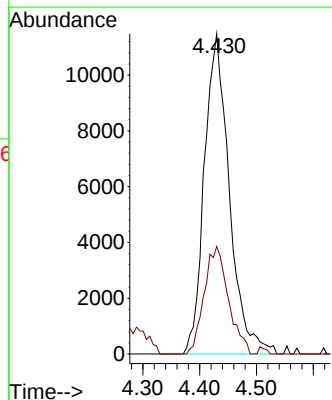
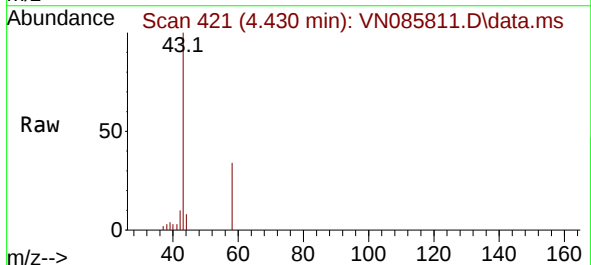
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

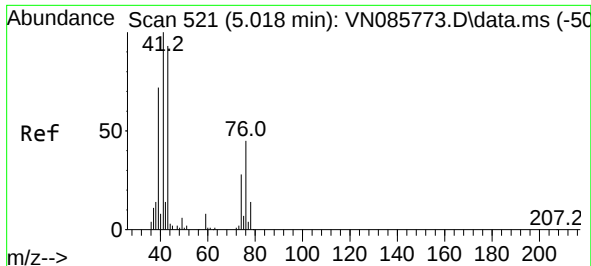
Tgt Ion: 59 Resp: 96
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 37.084 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 43 Resp: 35056
Ion Ratio Lower Upper
43 100
58 33.6 27.5 41.3

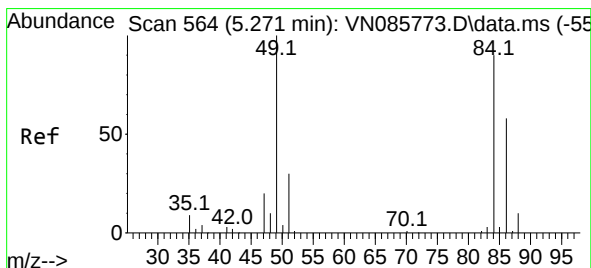
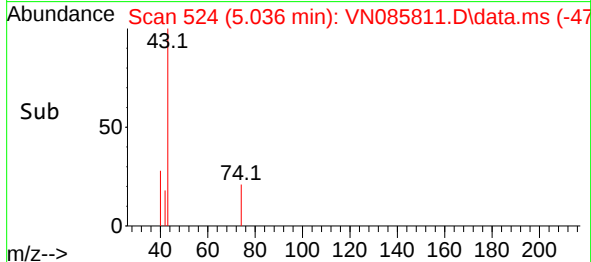
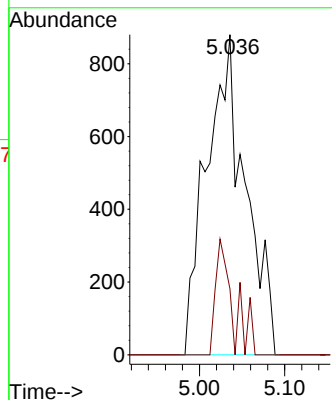
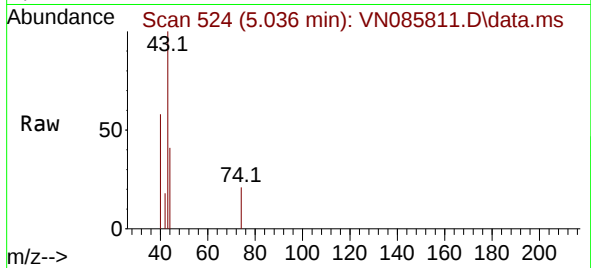




#18
Methyl Acetate
Concen: 0.857 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

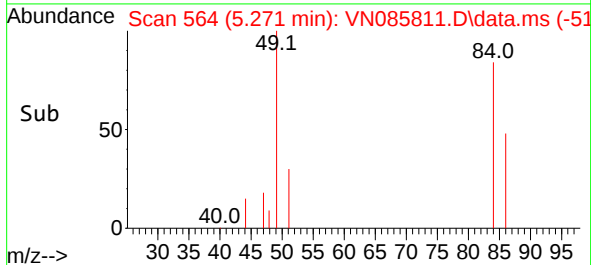
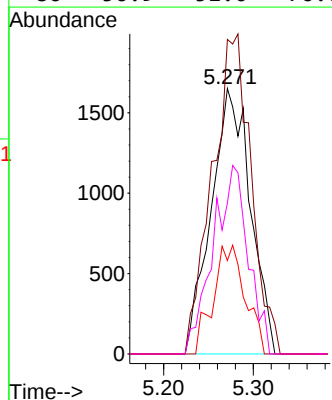
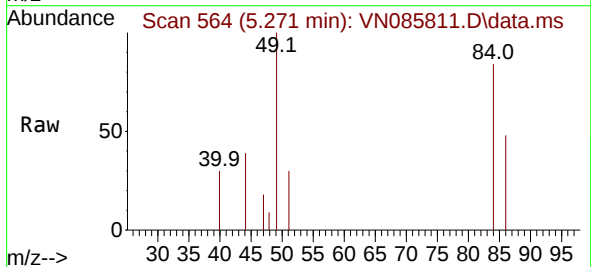
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MSVOA_N
ClientSampleId :
PB166809ZHE#04

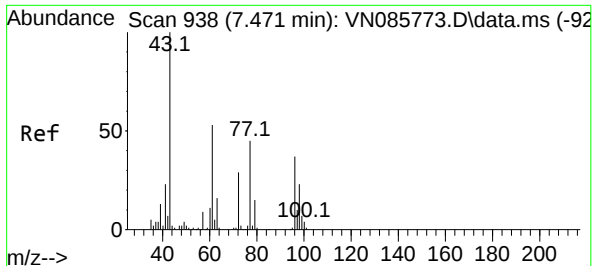
Tgt Ion: 43 Resp: 2788
Ion Ratio Lower Upper
43 100
74 4.5 22.2 33.4#



#20
Methylene Chloride
Concen: 1.649 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 84 Resp: 5012
Ion Ratio Lower Upper
84 100
49 118.5 88.4 132.6
51 35.2 26.6 40.0
86 56.9 51.0 76.6

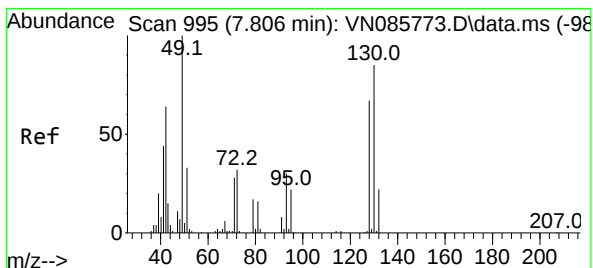
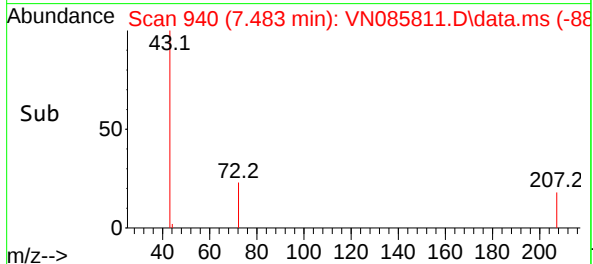
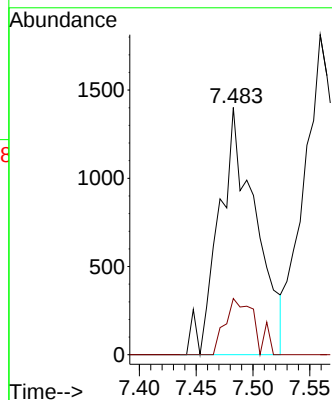
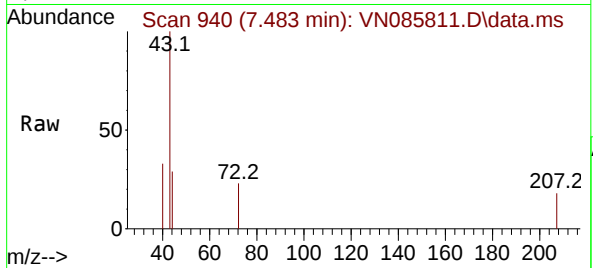




#25
2-Butanone
Concen: 2.270 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

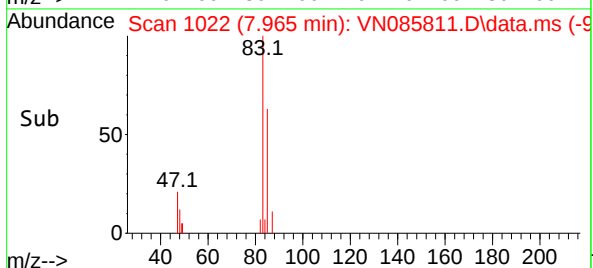
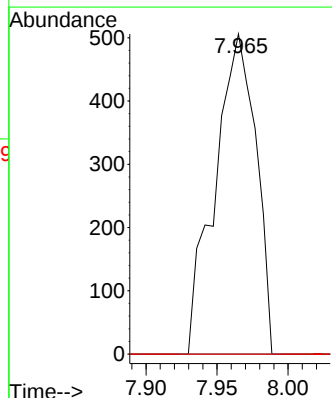
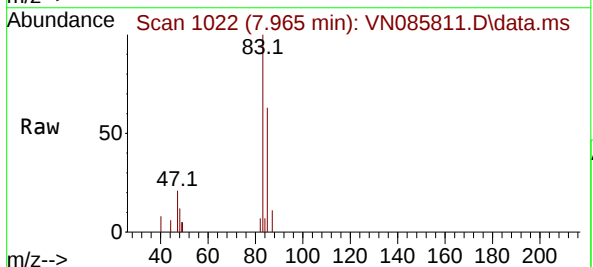
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ClientSampleId :
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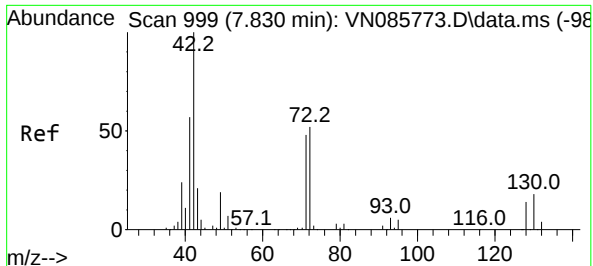
Tgt Ion: 43 Resp: 3157
Ion Ratio Lower Upper
43 100
72 22.8 23.6 35.4#



#28
Bromochloromethane
Concen: 0.488 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.159 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 49 Resp: 1023
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 68.0 102.0#





#29

Tetrahydrofuran

Concen: 0.254 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085811.D

Acq: 21 Feb 2025 18:39

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#04

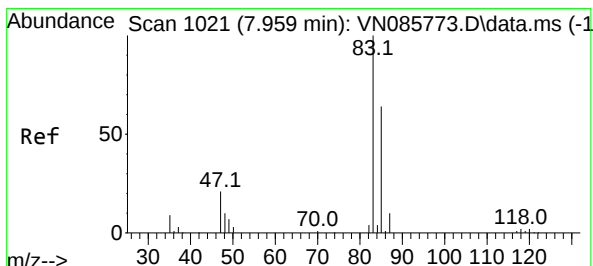
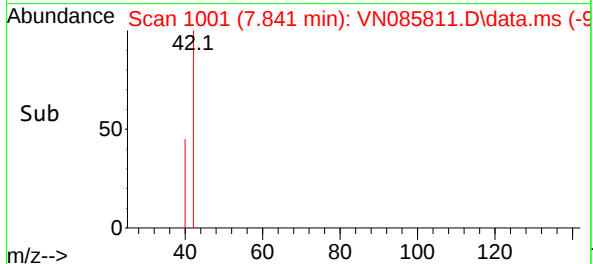
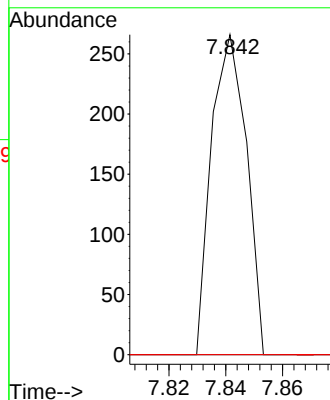
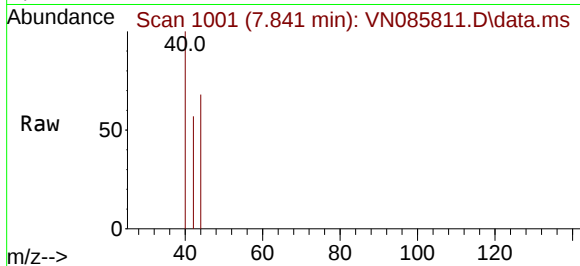
Tgt Ion: 42 Resp: 228

Ion Ratio Lower Upper

42 100

72 0.0 40.0 60.0#

71 0.0 37.0 55.4#



#30

Chloroform

Concen: 2.644 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085811.D

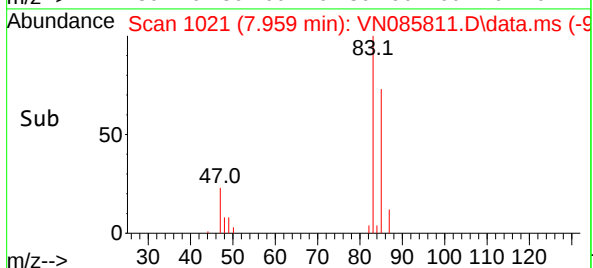
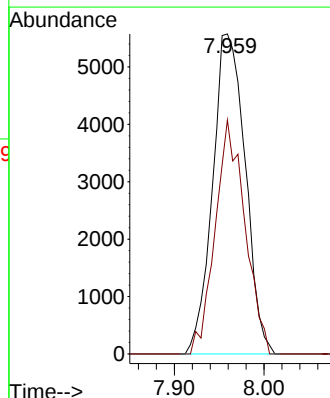
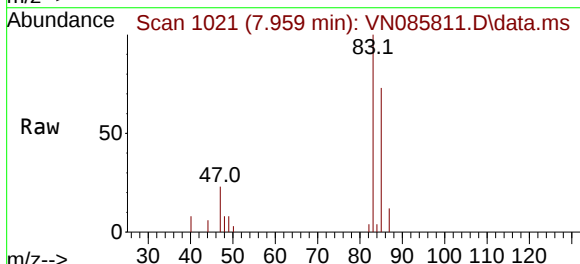
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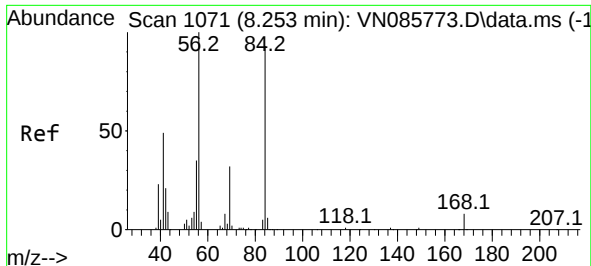
Tgt Ion: 83 Resp: 14079

Ion Ratio Lower Upper

83 100

85 73.1 50.9 76.3

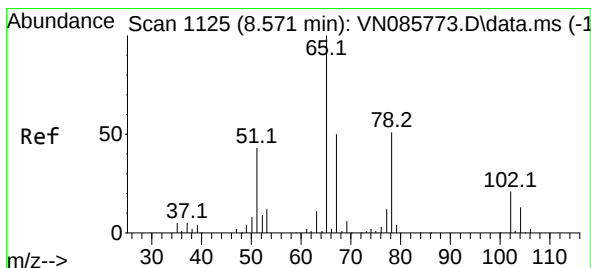
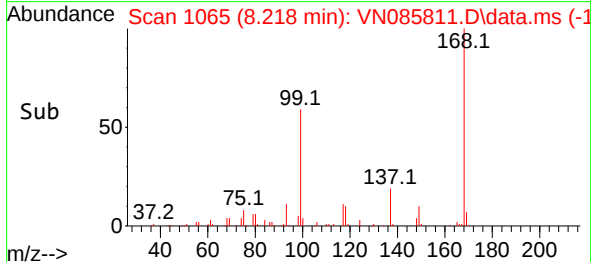
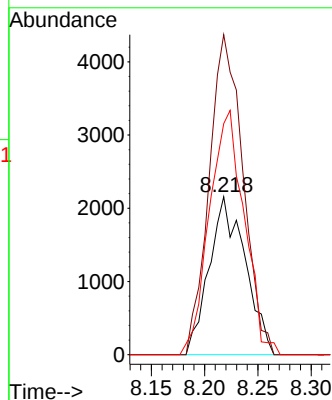
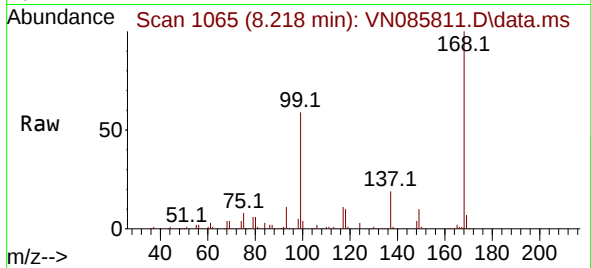




#31
Cyclohexane
Concen: 1.190 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

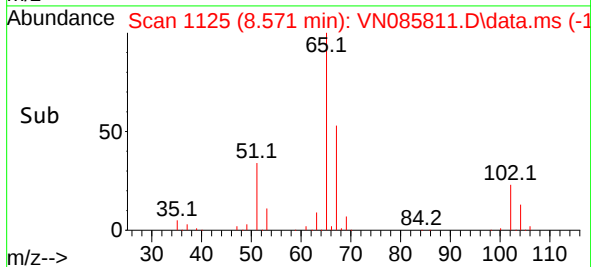
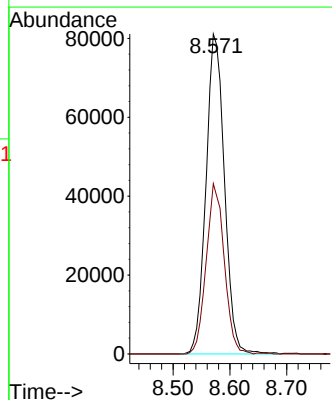
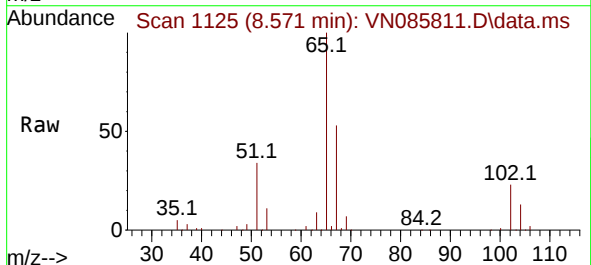
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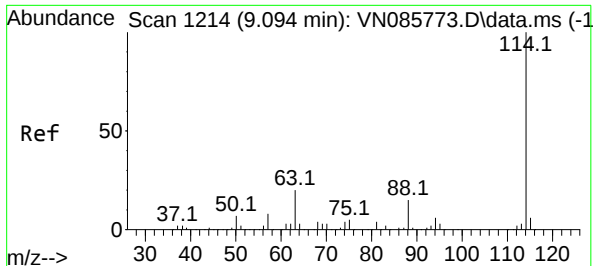
Tgt Ion: 56 Resp: 5076
Ion Ratio Lower Upper
56 100
69 202.6 25.8 38.6#
84 146.3 74.5 111.7#



#33
1,2-Dichloroethane-d4
Concen: 61.141 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 65 Resp: 182659
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085811.D

Acq: 21 Feb 2025 18:39

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#04

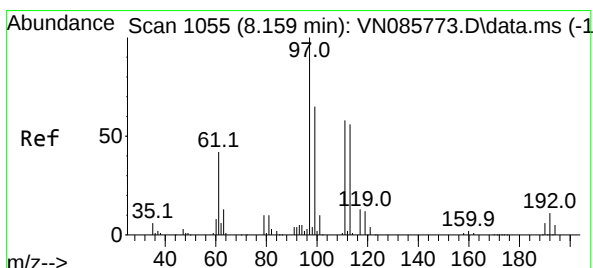
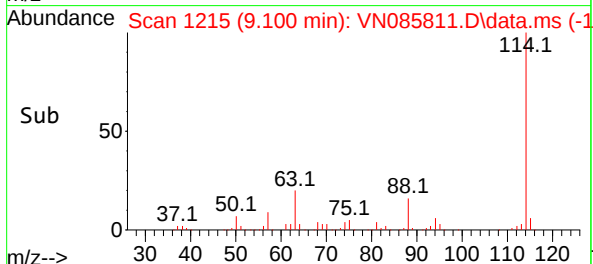
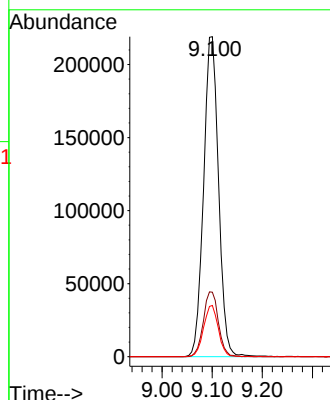
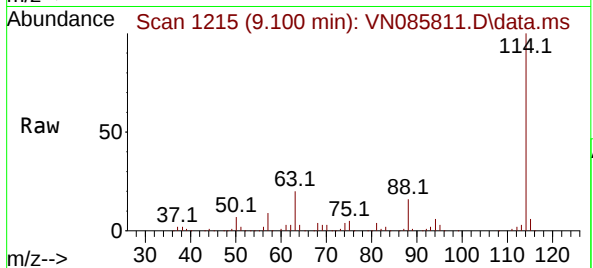
Tgt Ion:114 Resp: 453942

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.2

88 16.0 0.0 30.0



#35

Dibromofluoromethane

Concen: 53.578 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085811.D

Acq: 21 Feb 2025 18:39

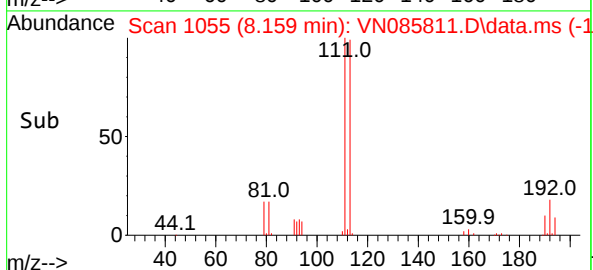
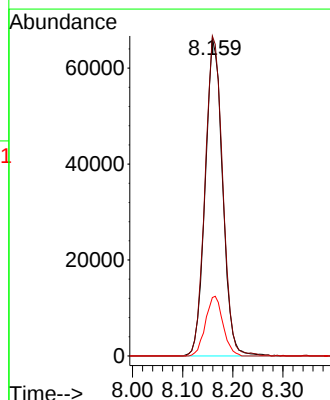
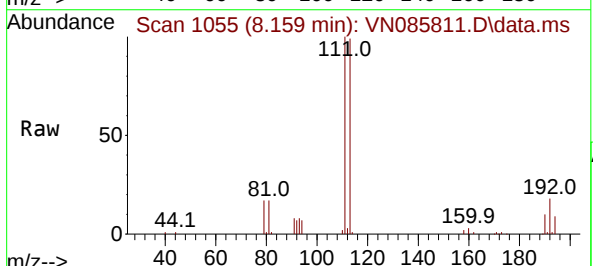
Tgt Ion:113 Resp: 159146

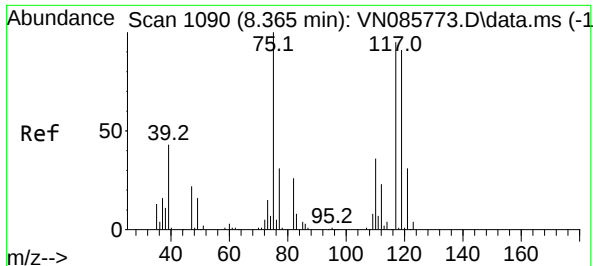
Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

192 19.0 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.462 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085811.D

Acq: 21 Feb 2025 18:39

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#04

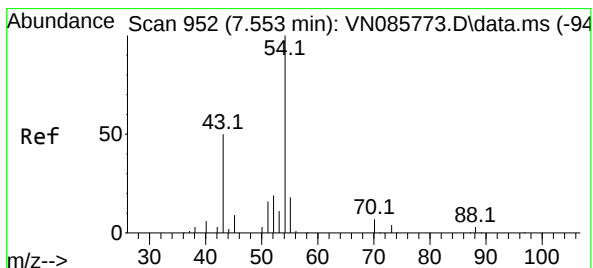
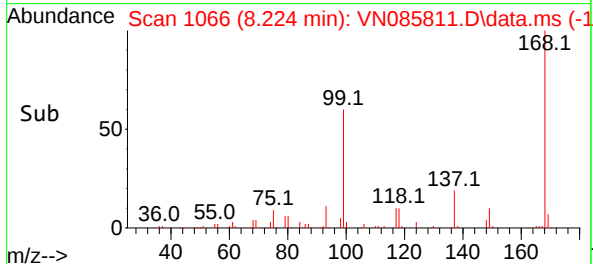
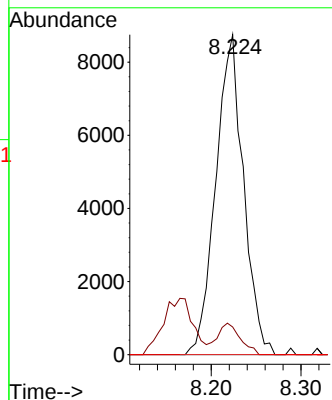
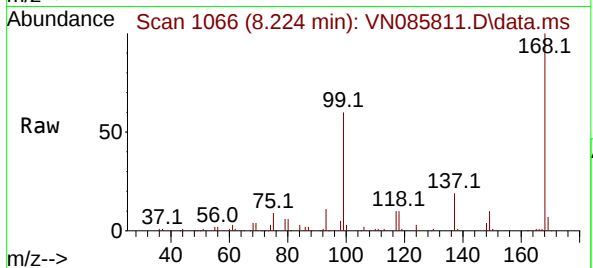
Tgt Ion: 75 Resp: 18757

Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.150 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN085811.D

Acq: 21 Feb 2025 18:39

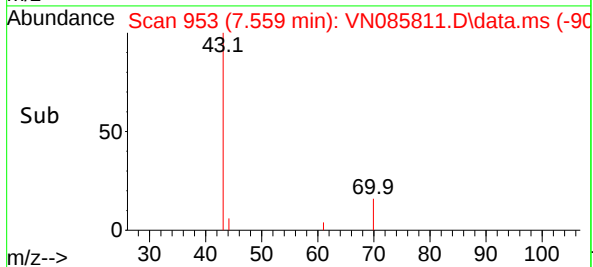
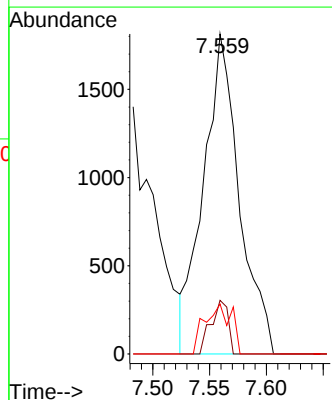
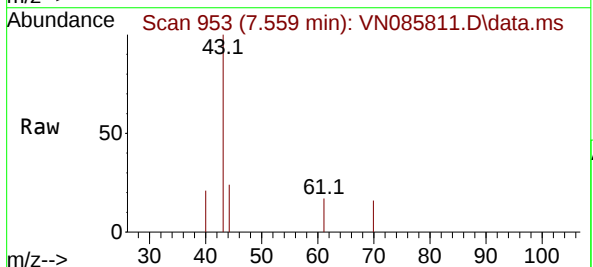
Tgt Ion: 43 Resp: 3977

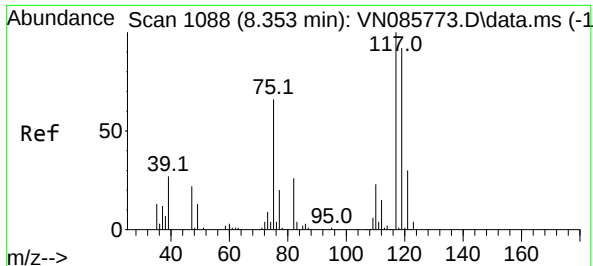
Ion Ratio Lower Upper

43 100

61 8.0 12.2 18.2#

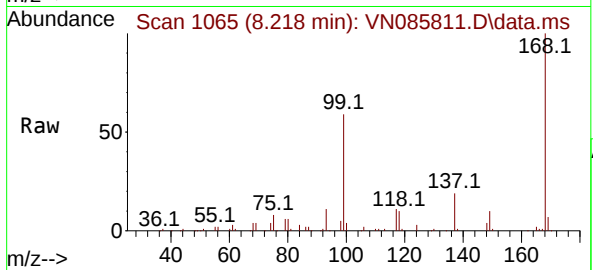
70 11.6 9.5 14.3



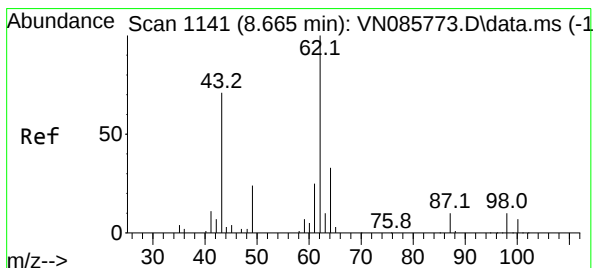
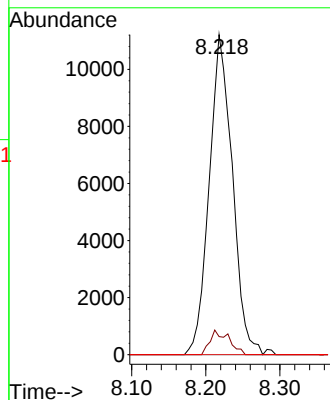
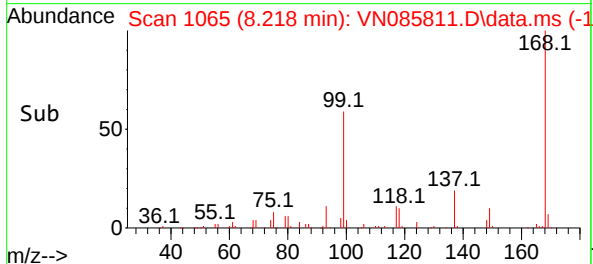


#38
Carbon Tetrachloride
Concen: 4.894 ug/l
RT: 8.218 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

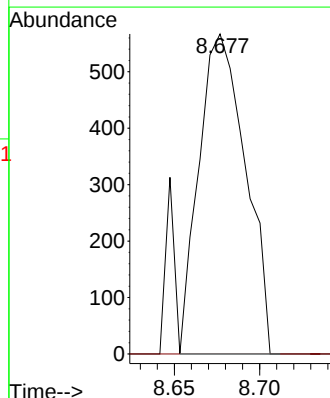
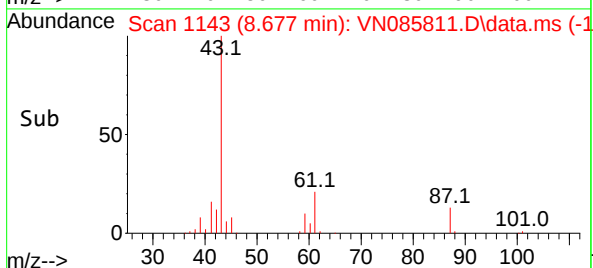
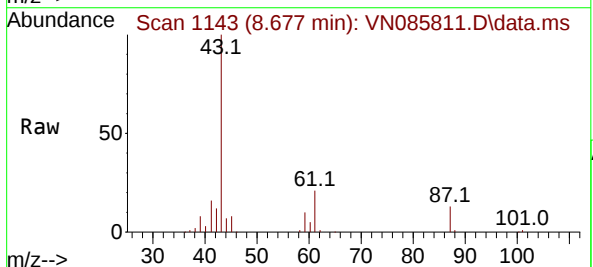


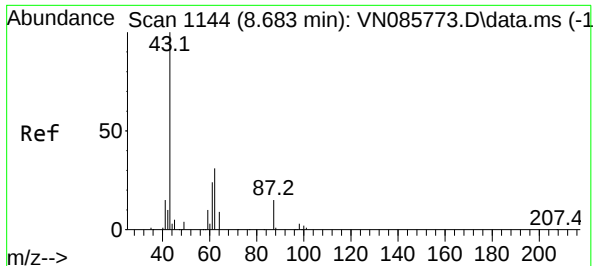
Tgt Ion:117 Resp: 24445
Ion Ratio Lower Upper
117 100
119 5.7 73.8 110.6#
121 0.0 24.3 36.5#



#42
1,2-Dichloroethane
Concen: 0.246 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 62 Resp: 1079
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6

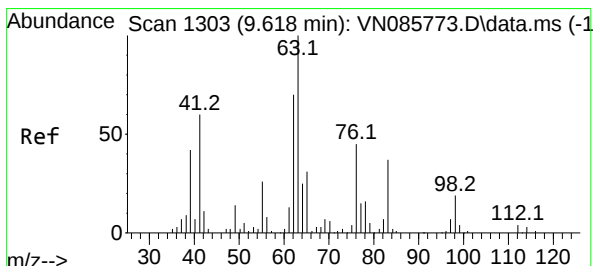
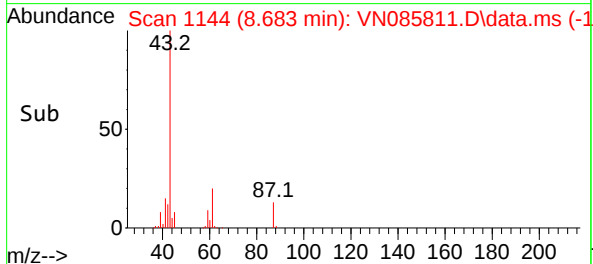
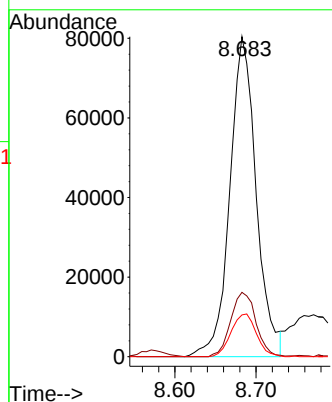
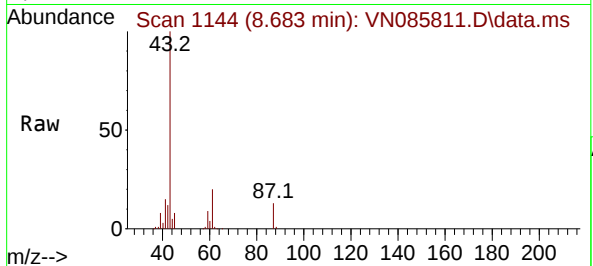




#43
Isopropyl Acetate
Concen: 29.667 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

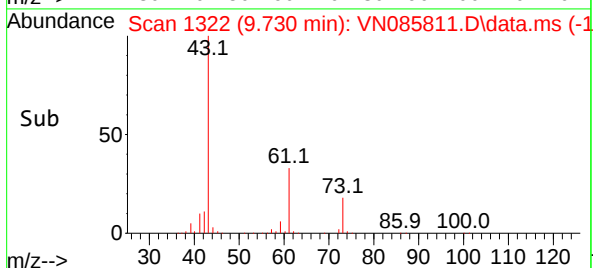
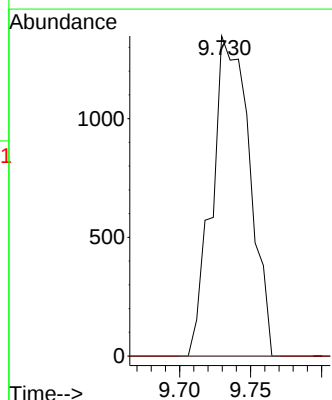
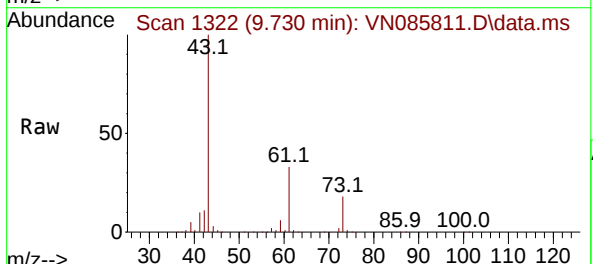
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

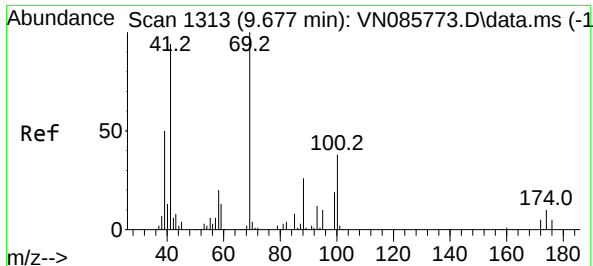
Tgt Ion: 43 Resp: 181470
Ion Ratio Lower Upper
43 100
61 19.3 22.6 34.0#
87 12.8 11.8 17.8



#45
1,2-Dichloropropane
Concen: 0.763 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 63 Resp: 2482
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#

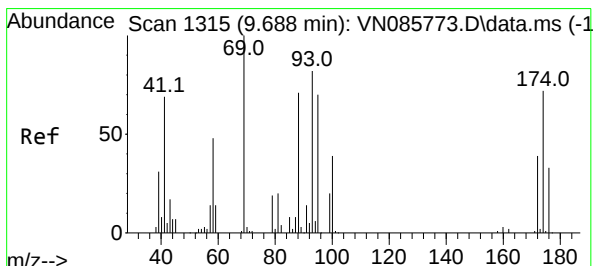
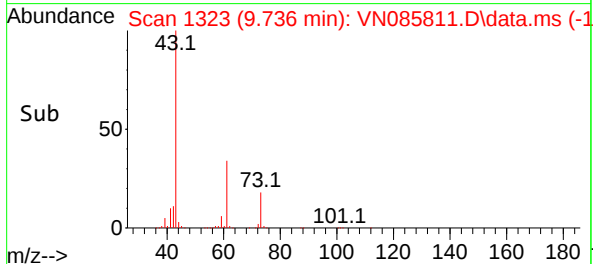
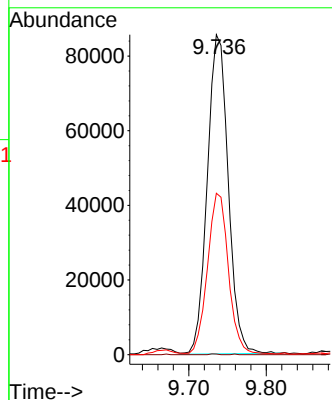
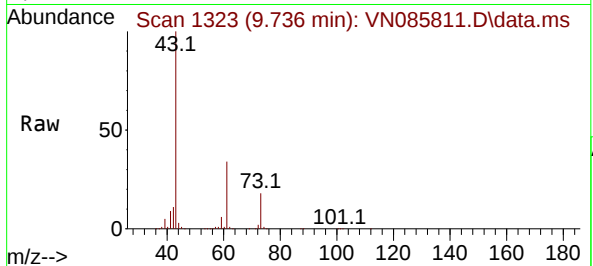




#48
Methyl methacrylate
Concen: 62.314 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

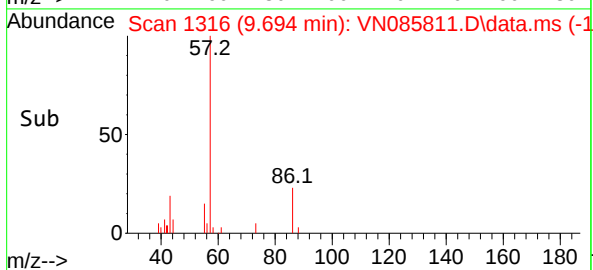
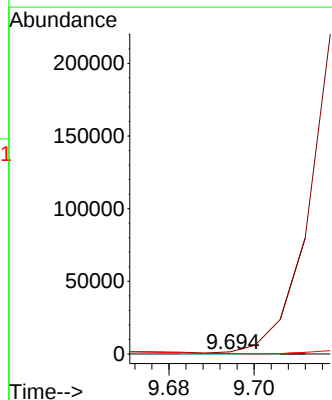
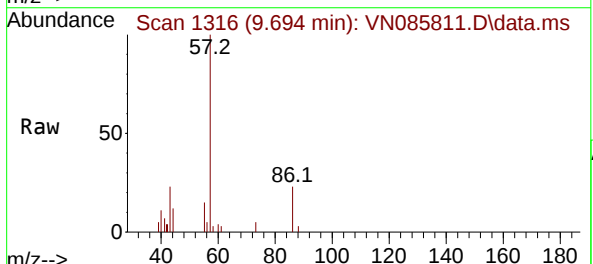
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

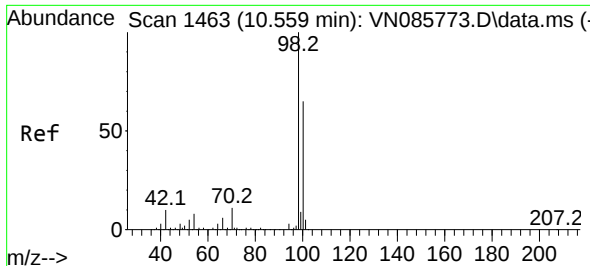
Tgt Ion: 41 Resp: 160101
Ion Ratio Lower Upper
41 100
69 0.1 76.0 114.0#
39 50.4 42.3 63.5



#49
1,4-Dioxane
Concen: 1.208 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 18.6 27.8#
58 0.0 56.7 85.1#

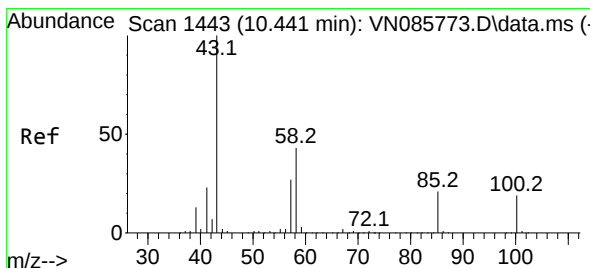
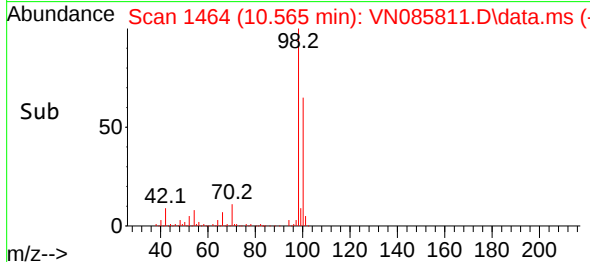
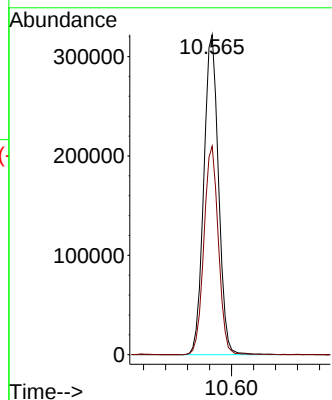
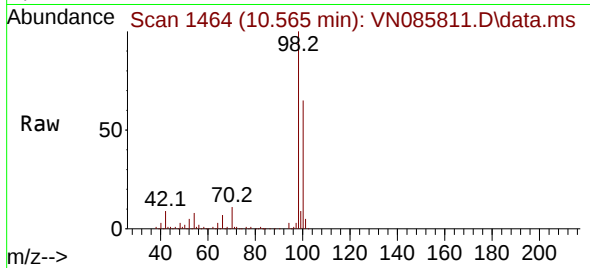




#50
Toluene-d8
Concen: 55.363 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

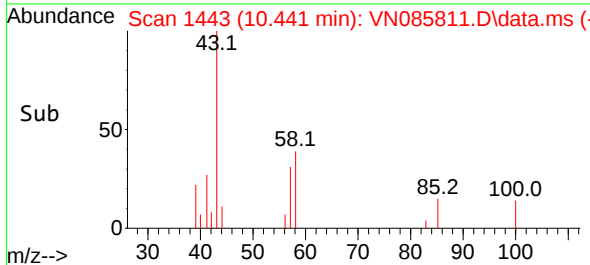
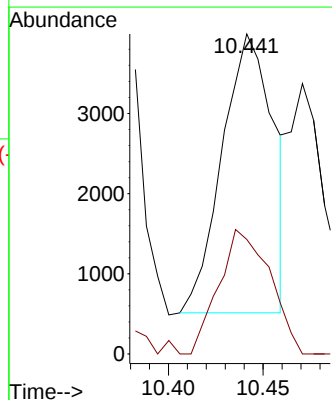
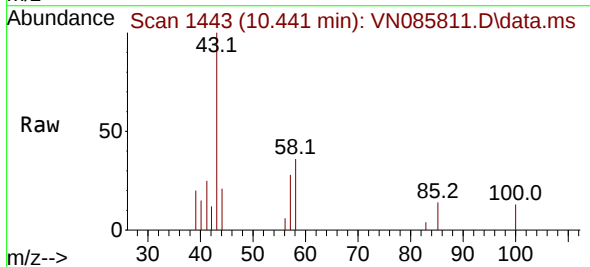
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

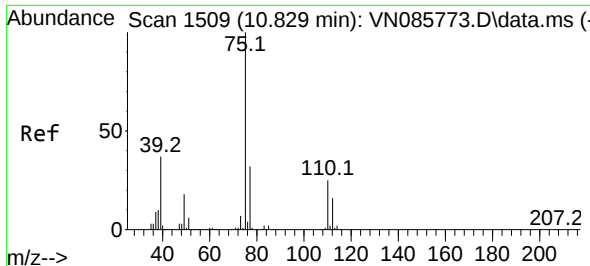
Tgt Ion: 98 Resp: 598318
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.967 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 43 Resp: 6560
Ion Ratio Lower Upper
43 100
58 44.5 34.6 52.0

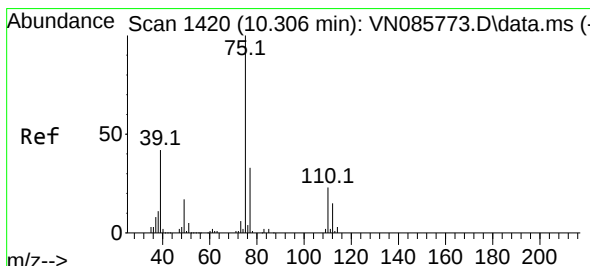
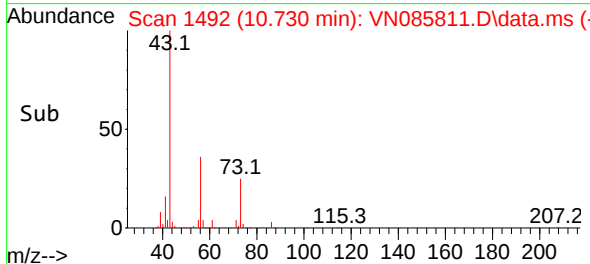
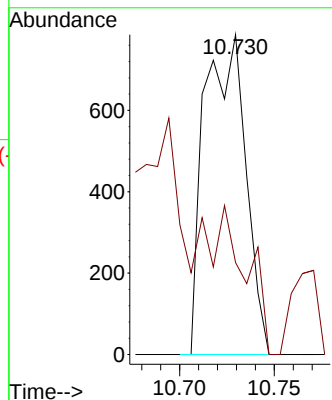
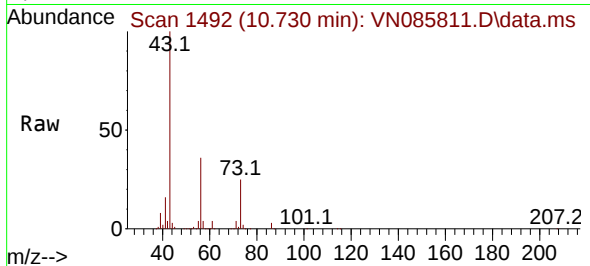




#53
t-1,3-Dichloropropene
Concen: 0.262 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.099 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

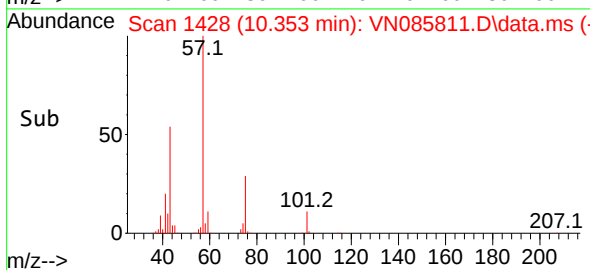
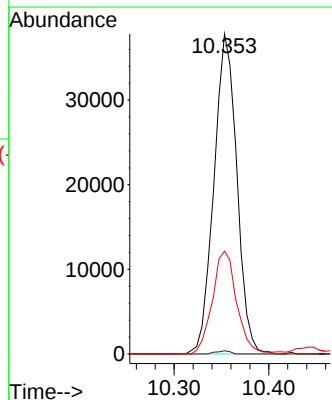
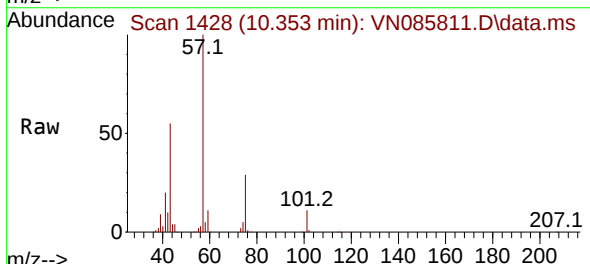
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

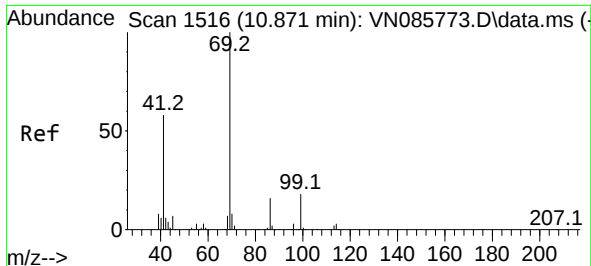
Tgt Ion: 75 Resp: 1188
Ion Ratio Lower Upper
75 100
77 28.8 25.4 38.0



#54
cis-1,3-Dichloropropene
Concen: 12.785 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 75 Resp: 63627
Ion Ratio Lower Upper
75 100
77 1.0 26.1 39.1#
39 32.1 33.4 50.0#

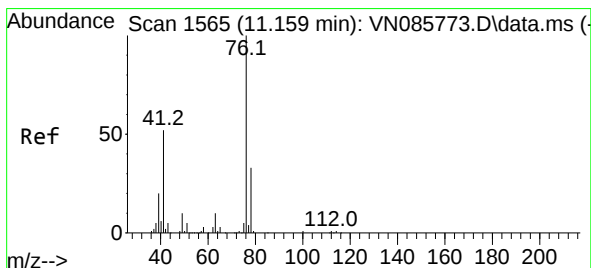
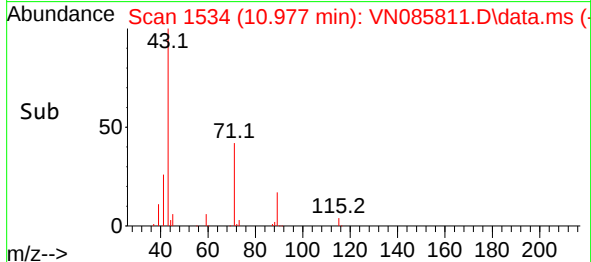
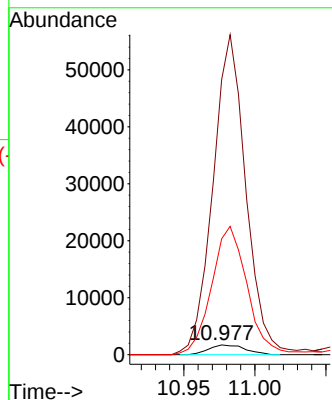
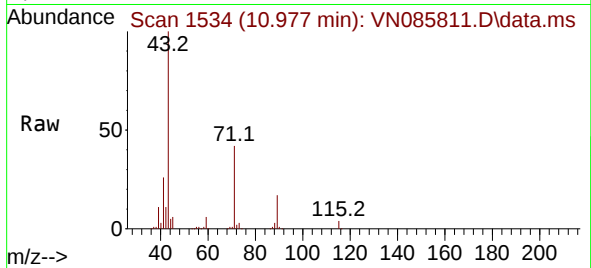




#56
Ethyl methacrylate
Concen: 1.210 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

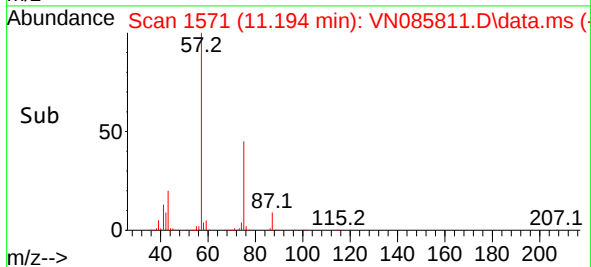
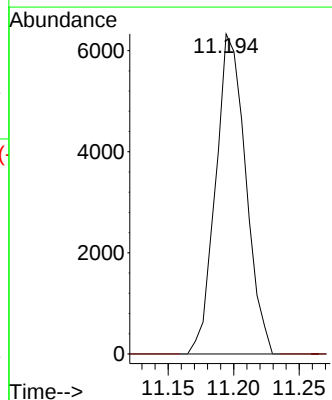
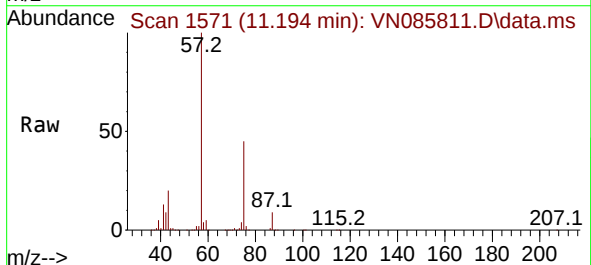
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

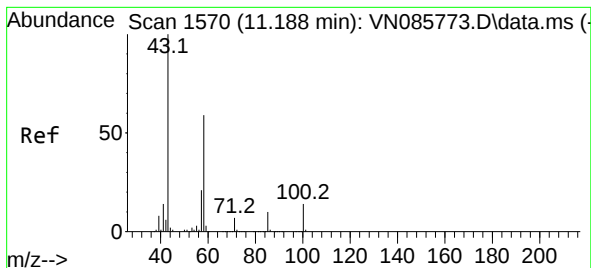
Tgt Ion: 69 Resp: 3039
Ion Ratio Lower Upper
69 100
41 2980.0 46.0 69.0#
39 1292.4 22.0 33.0#



#57
1,3-Dichloropropane
Concen: 1.921 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 76 Resp: 10072
Ion Ratio Lower Upper
76 100
78 0.0 25.9 38.9#

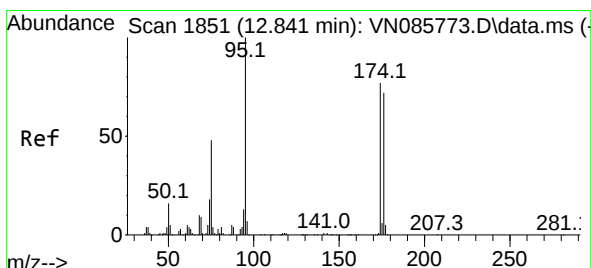
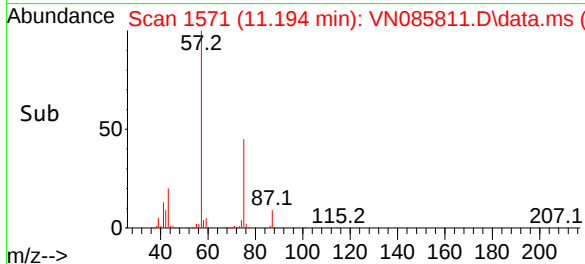
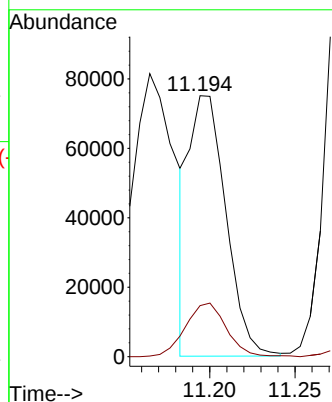
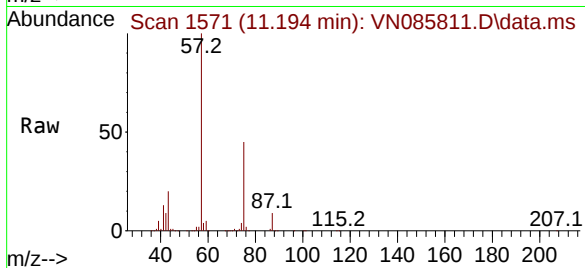




#59
2-Hexanone
Concen: 49.302 ug/l
RT: 11.194 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

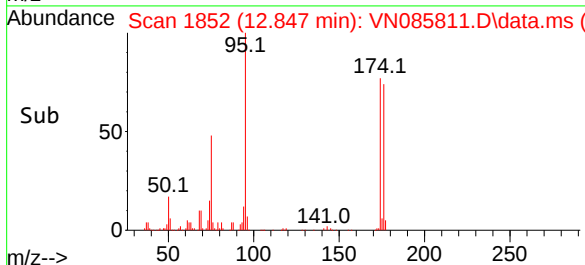
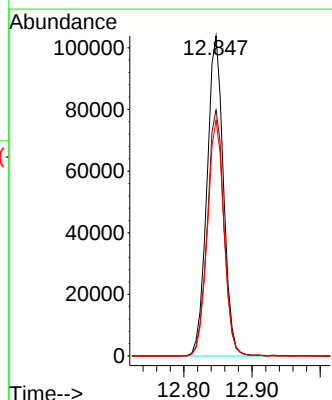
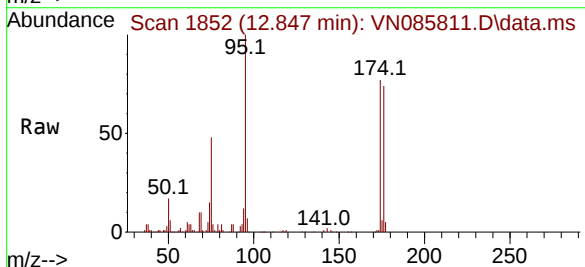
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

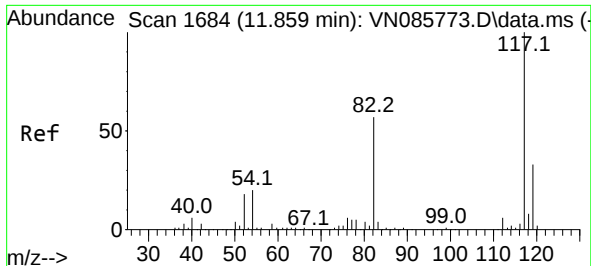
Tgt Ion: 43 Resp: 113130
Ion Ratio Lower Upper
43 100
58 22.9 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 48.861 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 95 Resp: 173981
Ion Ratio Lower Upper
95 100
174 77.9 0.0 152.4
176 73.9 0.0 146.6

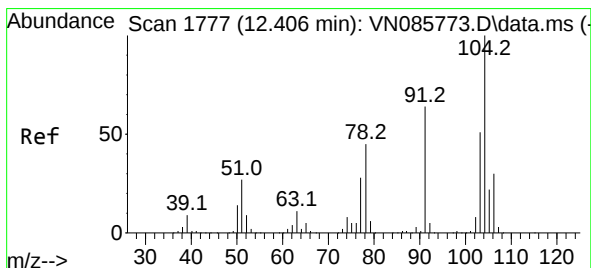
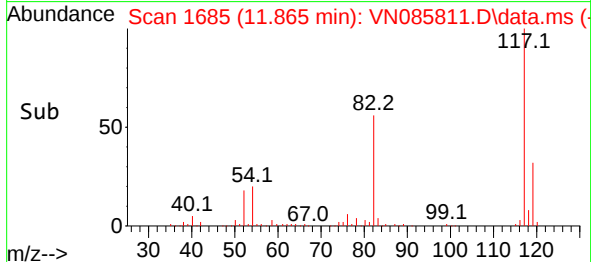
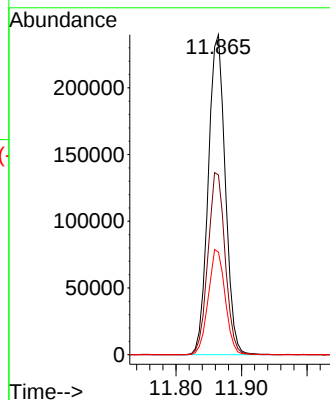
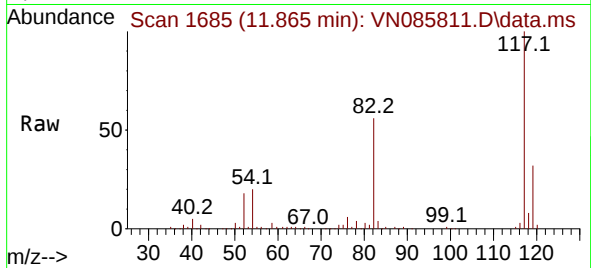




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

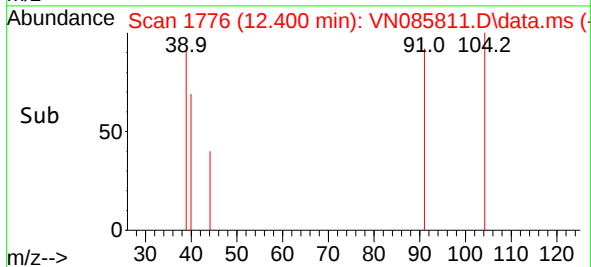
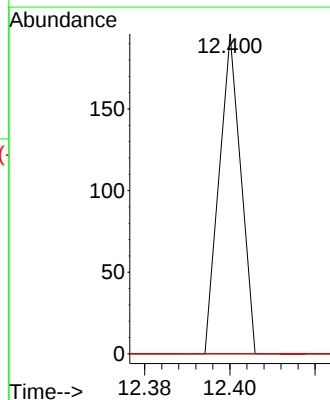
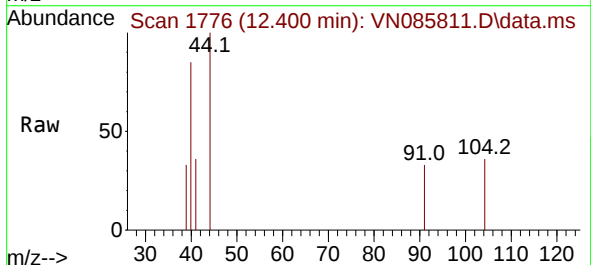
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

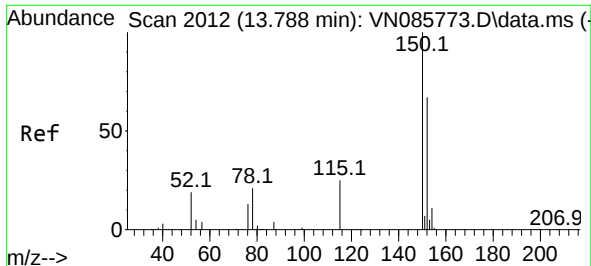
Tgt Ion:117 Resp: 432809
Ion Ratio Lower Upper
117 100
82 56.1 45.7 68.5
119 32.1 26.2 39.2



#70
Styrene
Concen: 0.592 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion:104 Resp: 69
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 0.0 43.3 64.9#

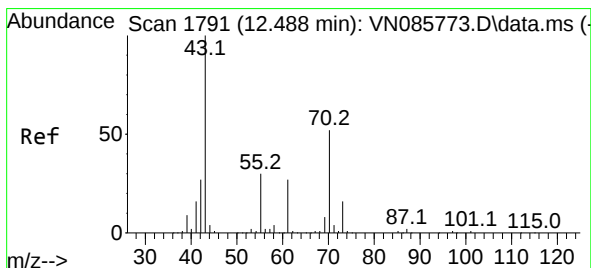
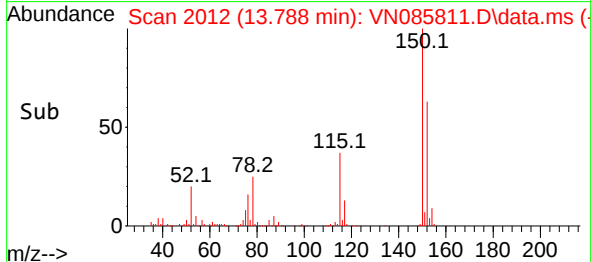
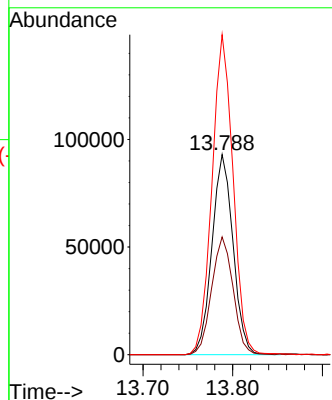
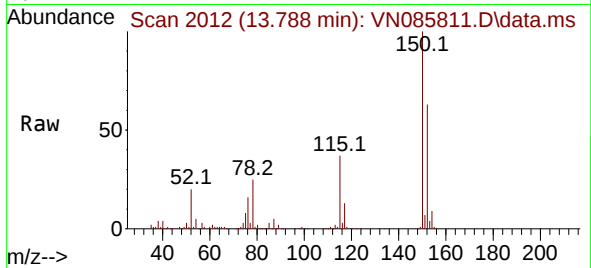




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

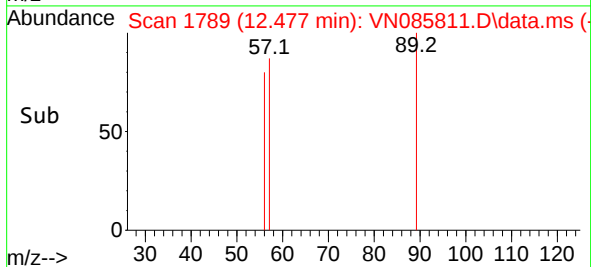
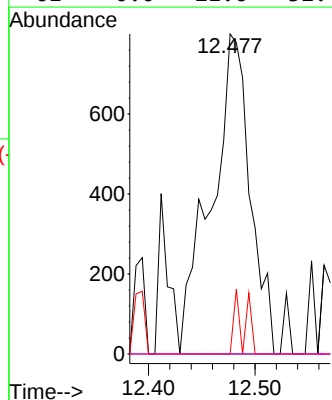
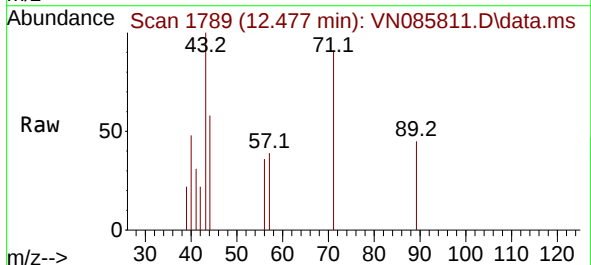
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

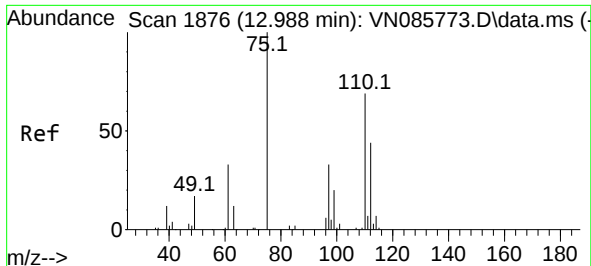
Tgt Ion:152 Resp: 151947
Ion Ratio Lower Upper
152 100
115 59.8 30.4 91.3
150 159.4 0.0 345.4



#74
N-ethyl acetate
Concen: 0.553 ug/l
RT: 12.477 min Scan# 1789
Delta R.T. -0.012 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 43 Resp: 2030
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.4#
55 5.5 24.6 36.8#
61 0.0 21.6 32.4#

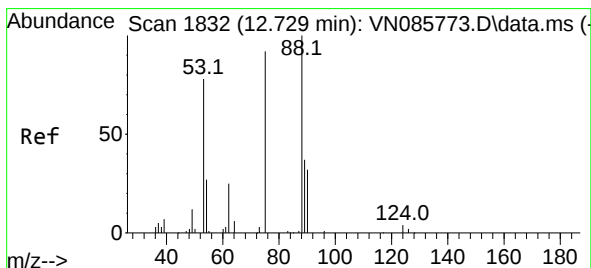
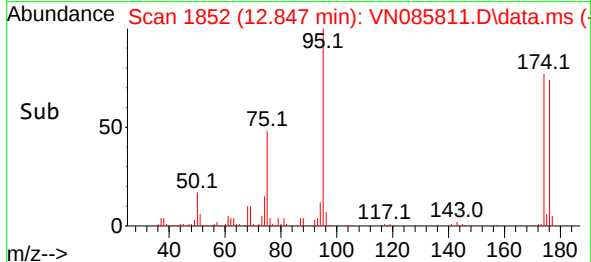
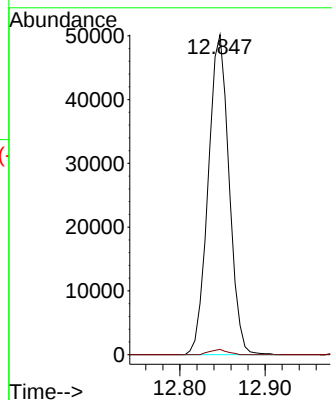
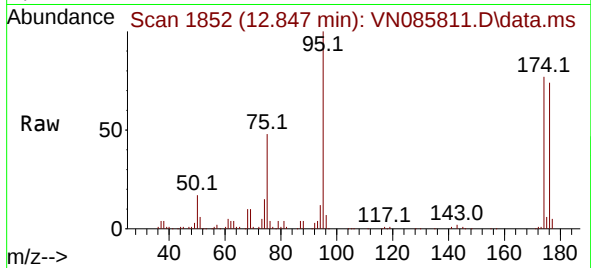




#76
1,2,3-Trichloropropane
Concen: 25.294 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#04

Tgt Ion: 75 Resp: 85373
Ion Ratio Lower Upper
75 100
77 1.4 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.801 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085811.D
Acq: 21 Feb 2025 18:39

Tgt Ion: 75 Resp: 85373
Ion Ratio Lower Upper
75 100
53 0.2 74.2 111.4#
89 0.0 34.9 52.3#

