

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011725\
 Data File : VN085489.D
 Acq On : 17 Jan 2025 13:36
 Operator : JC\MD
 Sample : PB166090ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166090TB

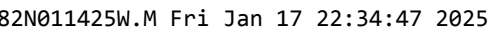
Quant Time: Jan 17 22:34:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	185114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	356401	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320476	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161156	53.932	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.860%			
35) Dibromofluoromethane	8.159	113	120249	48.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.260%			
50) Toluene-d8	10.565	98	448488	51.052	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.100%			
62) 4-Bromofluorobenzene	12.847	95	135555	45.108	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.220%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	663	0.244	ug/l #	41
5) Bromomethane	2.971	94	418	0.254	ug/l #	63
11) Tert butyl alcohol	5.524	59	657	1.920	ug/l #	71
16) Acetone	4.430	43	47767	49.474	ug/l	100
18) Methyl Acetate	5.018	43	959	0.327	ug/l #	79
20) Methylene Chloride	5.283	84	3793	1.587	ug/l #	72
25) 2-Butanone	7.483	43	5165	3.635	ug/l #	81
28) Bromochloromethane	7.953	49	4415	2.175	ug/l #	18
29) Tetrahydrofuran	7.830	42	197	0.219	ug/l #	34
30) Chloroform	7.965	83	48226	10.695	ug/l	93
31) Cyclohexane	8.218	56	5160	1.361	ug/l #	13
36) 1,1-Dichloropropene	8.218	75	17460	5.031	ug/l #	52
37) Ethyl Acetate	7.553	43	3596	1.027	ug/l #	77
38) Carbon Tetrachloride	8.224	117	21073	5.304	ug/l #	18
42) 1,2-Dichloroethane	8.683	62	984	0.251	ug/l #	76
43) Isopropyl Acetate	8.683	43	160325	28.566	ug/l #	83
45) 1,2-Dichloropropane	9.735	63	1434	0.538	ug/l #	43
48) Methyl methacrylate	9.659	41	3783	1.498	ug/l #	45
49) 1,4-Dioxane	9.735	88	68	1.599	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	10975	3.370	ug/l #	71
54) cis-1,3-Dichloropropene	10.353	75	35730	9.041	ug/l #	74
56) Ethyl methacrylate	10.982	69	1696	2.336	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4984	1.199	ug/l #	43
59) 2-Hexanone	11.200	43	61931	27.025	ug/l #	60
74) N-amyl acetate	12.500	43	1258	0.339	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	77202	31.048	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77202	84.001	ug/l #	3

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

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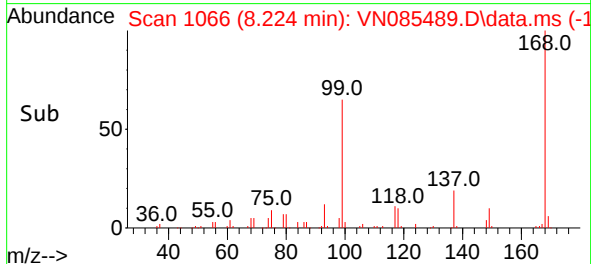
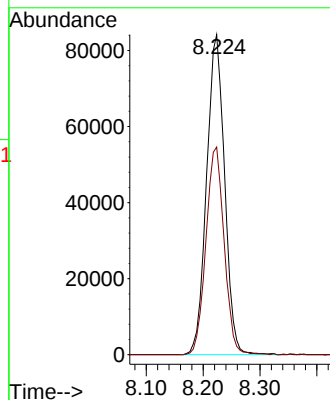
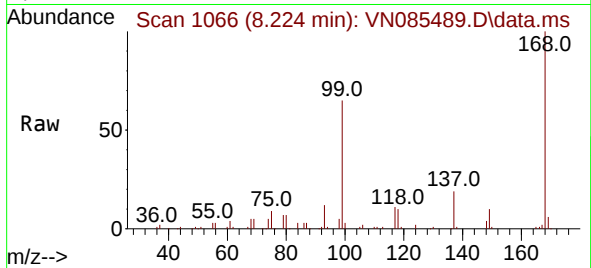




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

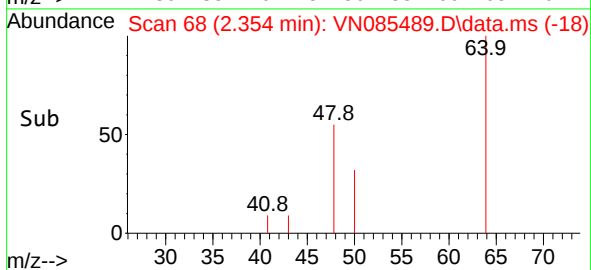
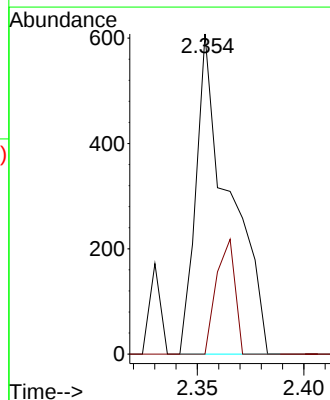
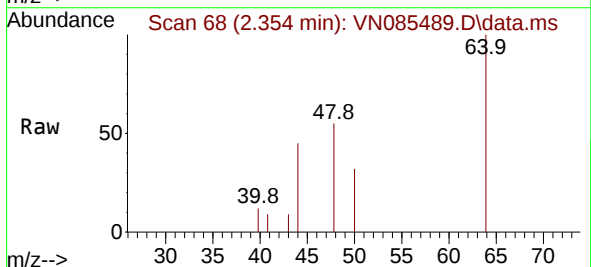
Instrument :
MSVOA_N
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PB166090TB

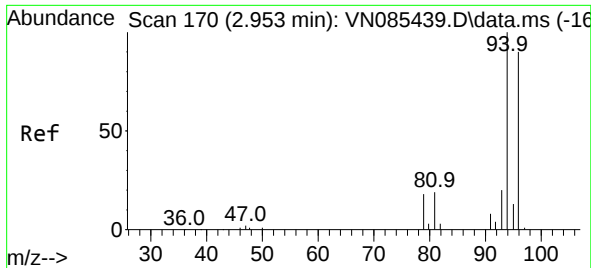
Tgt Ion:168 Resp: 185114
Ion Ratio Lower Upper
168 100
99 64.9 53.6 80.4



#3
Chloromethane
Concen: 0.244 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 50 Resp: 663
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

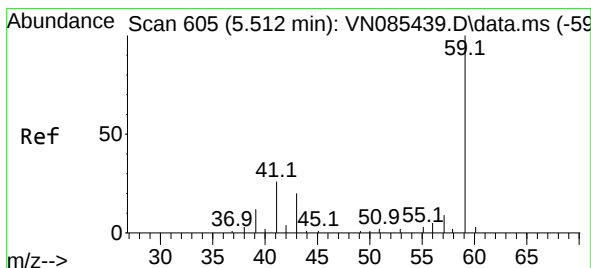
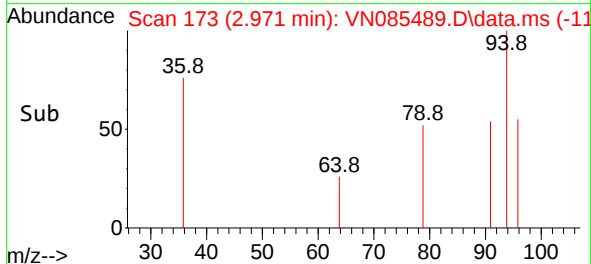
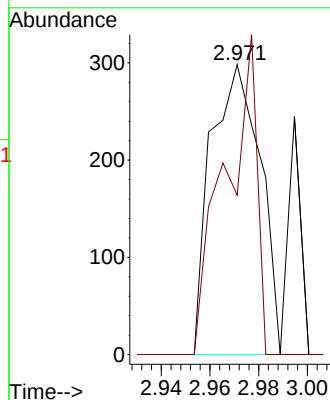
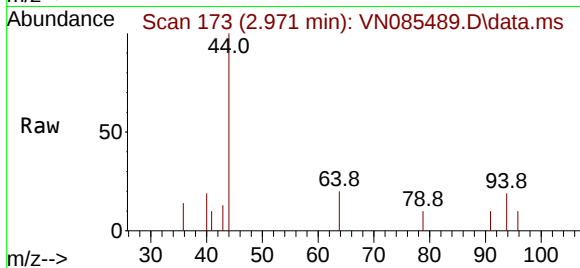




#5
Bromomethane
Concen: 0.254 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

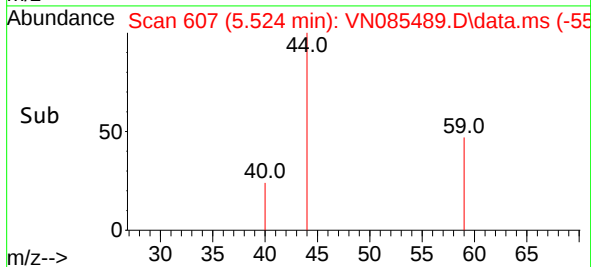
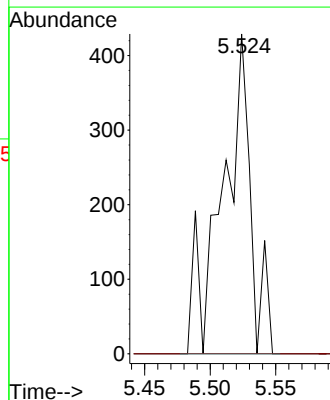
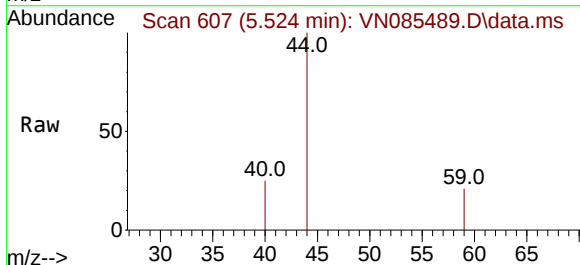
Instrument :
MSVOA_N
ClientSampleId :
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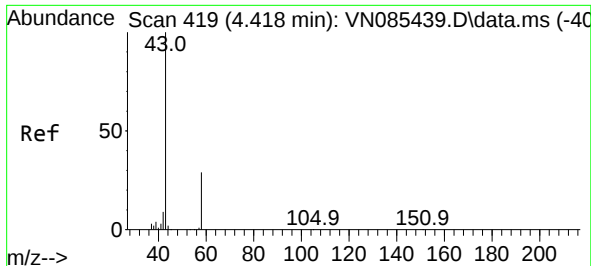
Tgt Ion: 94 Resp: 418
Ion Ratio Lower Upper
94 100
96 55.0 71.8 107.6#



#11
Tert butyl alcohol
Concen: 1.920 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 59 Resp: 657
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

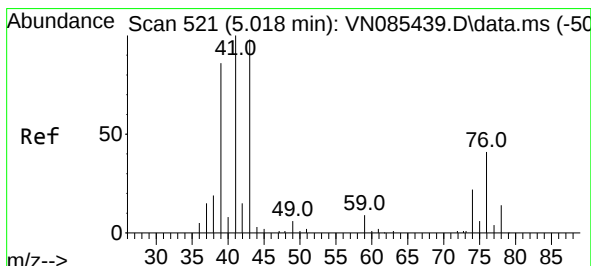
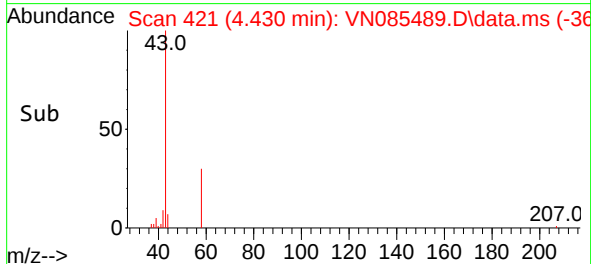
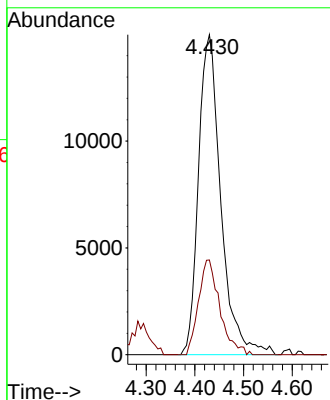
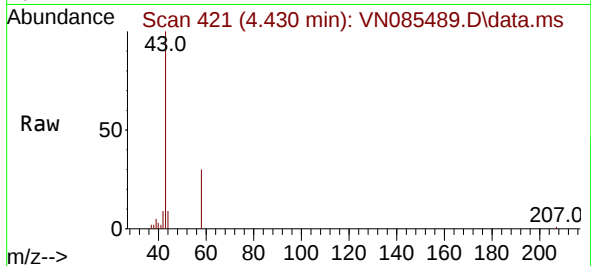




#16
Acetone
Concen: 49.474 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

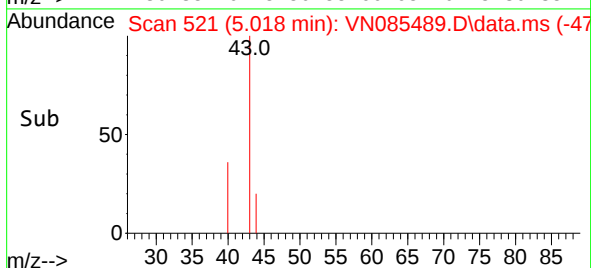
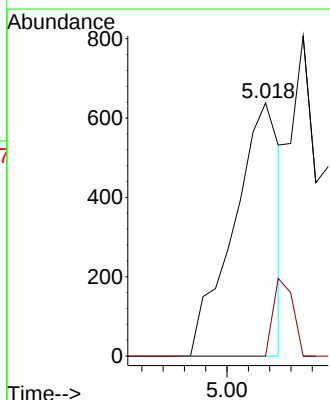
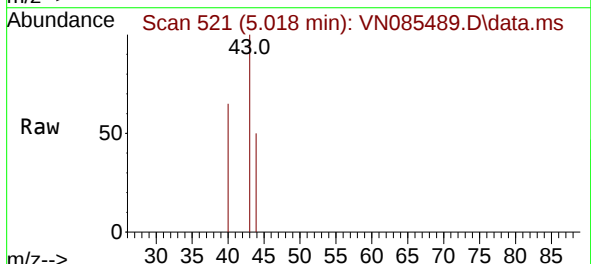
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

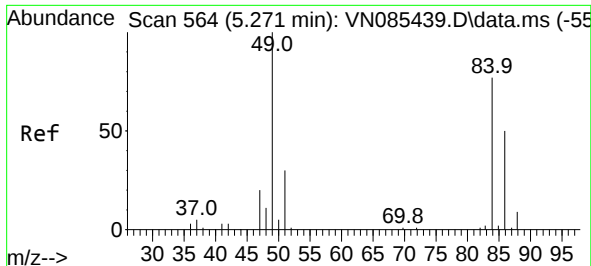
Tgt Ion: 43 Resp: 47767
Ion Ratio Lower Upper
43 100
58 29.6 23.8 35.6



#18
Methyl Acetate
Concen: 0.327 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 43 Resp: 959
Ion Ratio Lower Upper
43 100
74 13.1 18.6 28.0#



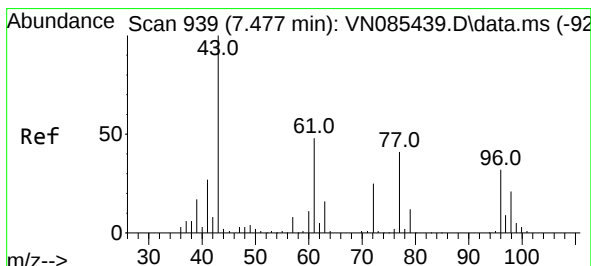
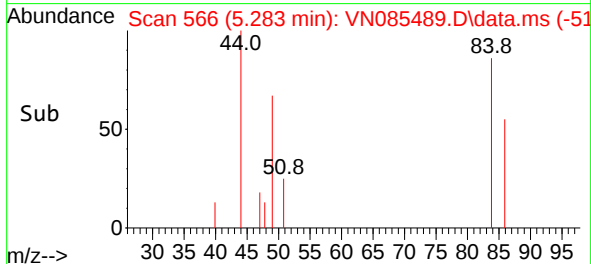
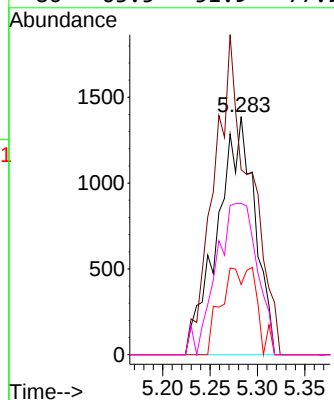
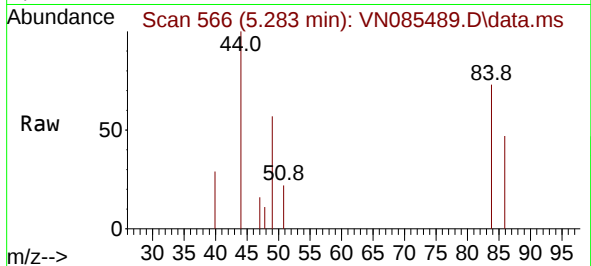


#20
Methylene Chloride
Concen: 1.587 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

Tgt Ion: 84 Resp: 3793

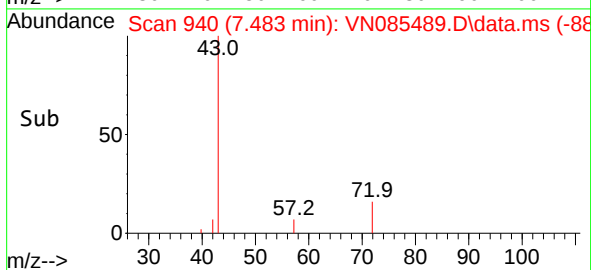
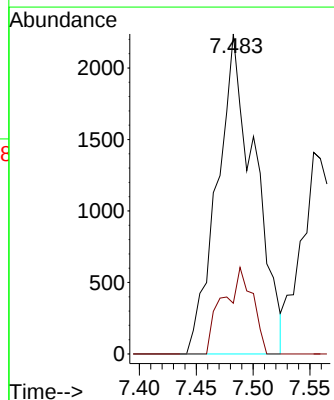
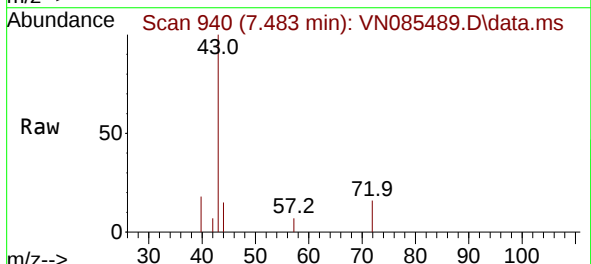
Ion	Ratio	Lower	Upper
84	100		
49	77.7	104.1	156.1#
51	29.5	31.0	46.4#
86	63.5	51.9	77.9

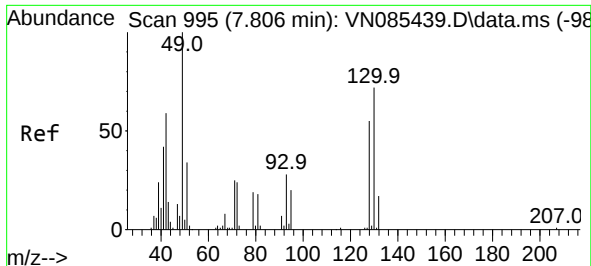


#25
2-Butanone
Concen: 3.635 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 43 Resp: 5165

Ion	Ratio	Lower	Upper
43	100		
72	15.9	20.2	30.4#

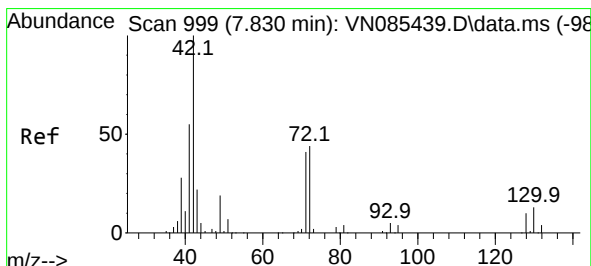
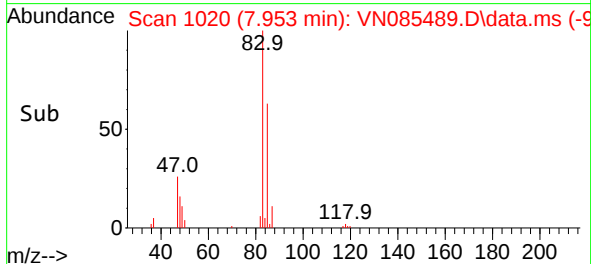
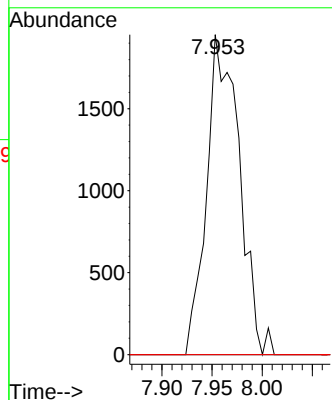
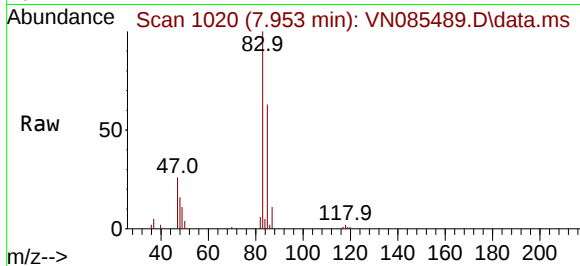




#28
Bromochloromethane
Concen: 2.175 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.147 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

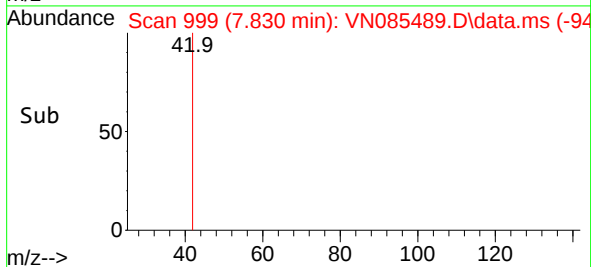
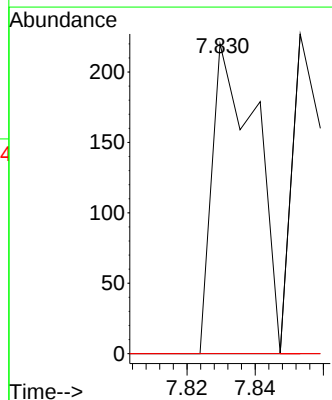
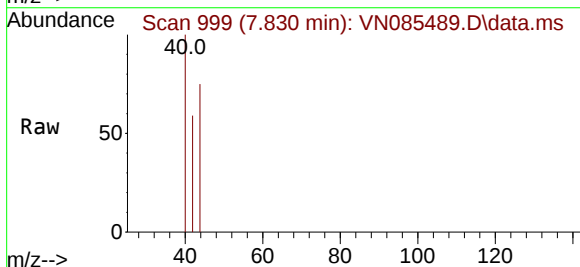
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ClientSampleId :
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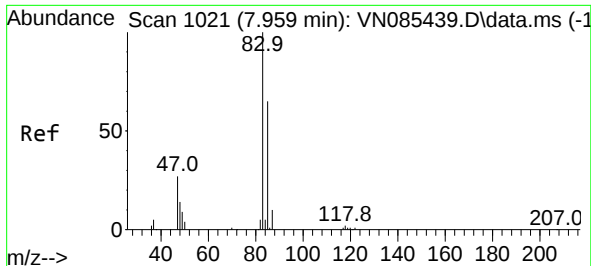
Tgt Ion: 49 Resp: 4415
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 55.0 82.4#



#29
Tetrahydrofuran
Concen: 0.219 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 42 Resp: 197
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#





#30

Chloroform

Concen: 10.695 ug/l

RT: 7.965 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

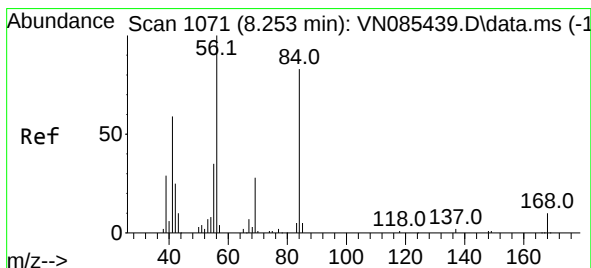
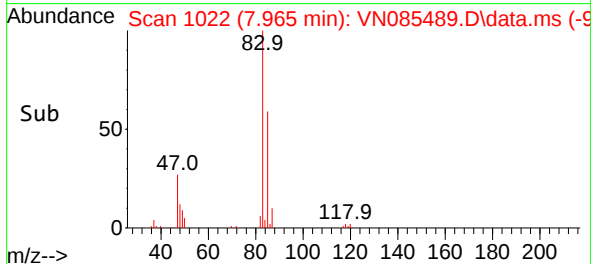
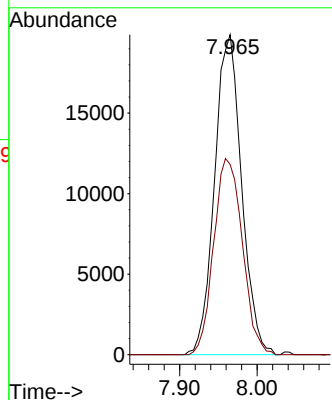
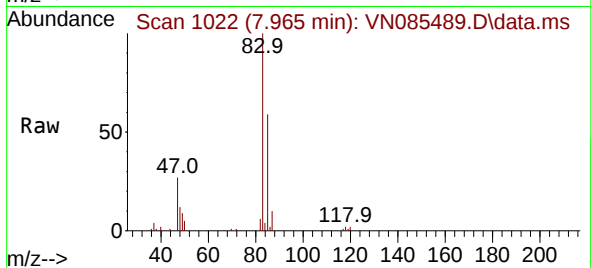
PB166090TB

Tgt Ion: 83 Resp: 48226

Ion Ratio Lower Upper

83 100

85 59.4 51.8 77.6



#31

Cyclohexane

Concen: 1.361 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

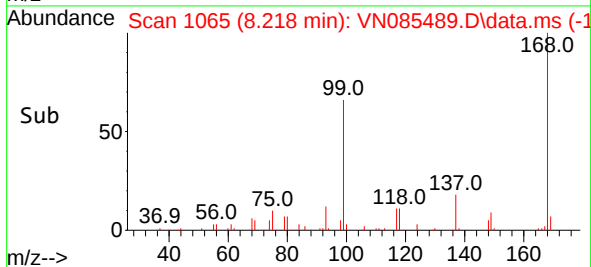
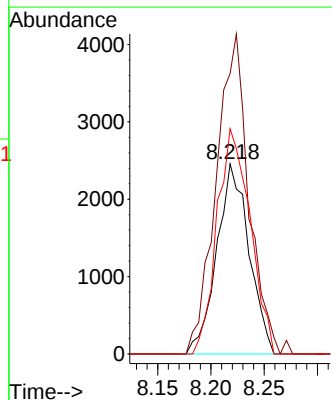
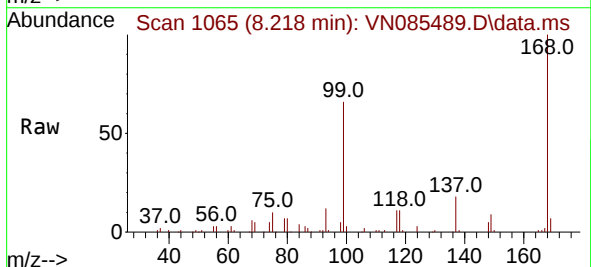
Tgt Ion: 56 Resp: 5160

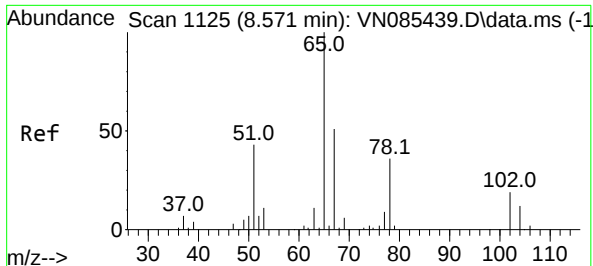
Ion Ratio Lower Upper

56 100

69 147.6 22.2 33.4#

84 118.4 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 53.932 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

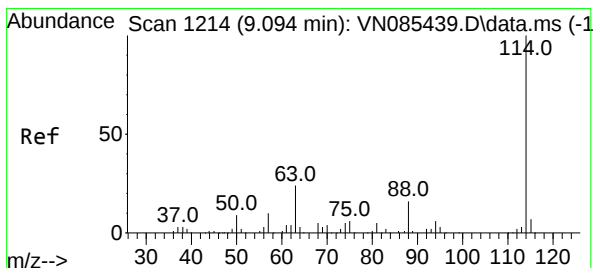
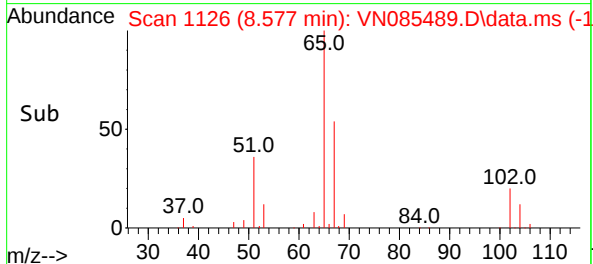
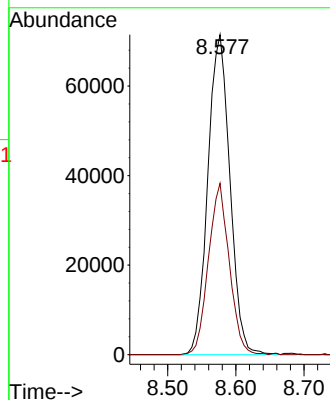
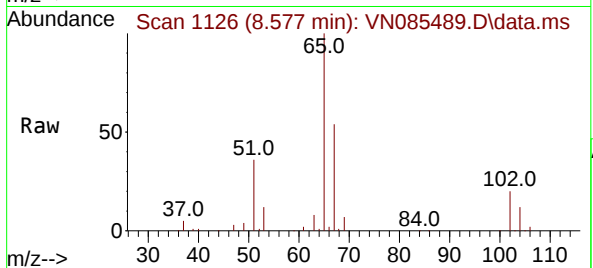
PB166090TB

Tgt Ion: 65 Resp: 161156

Ion Ratio Lower Upper

65 100

67 50.5 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: VN085489.D

Acq: 17 Jan 2025 13:36

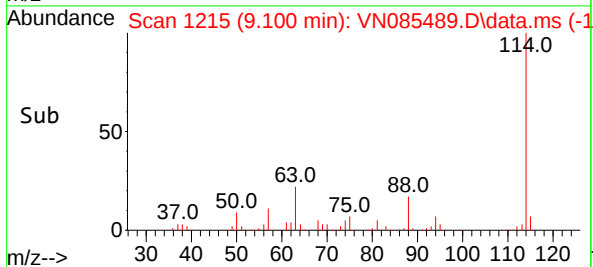
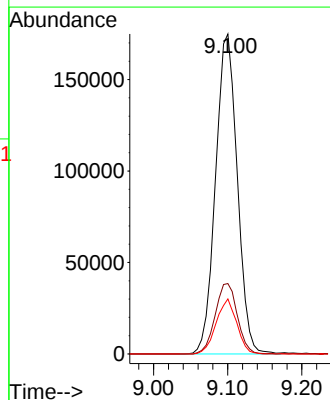
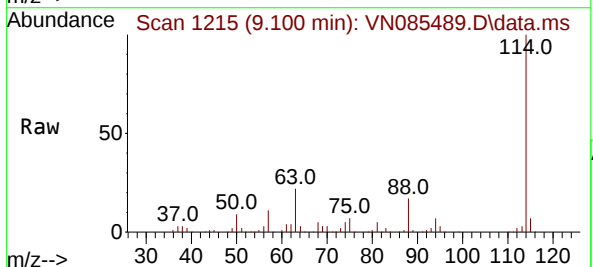
Tgt Ion: 114 Resp: 356401

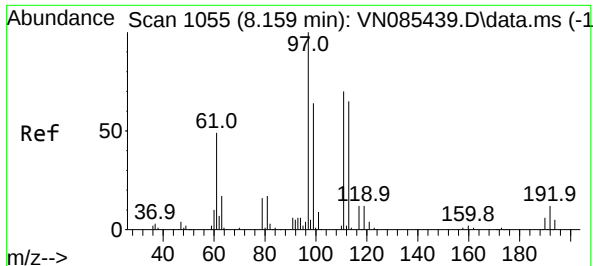
Ion Ratio Lower Upper

114 100

63 22.0 0.0 47.6

88 17.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.634 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085489.D

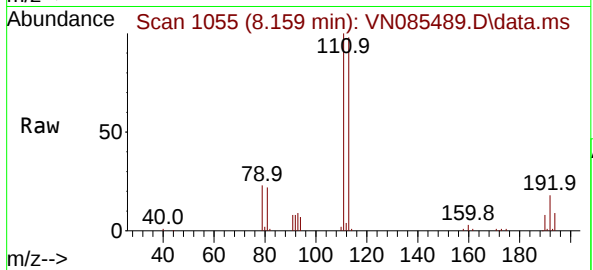
Acq: 17 Jan 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB166090TB



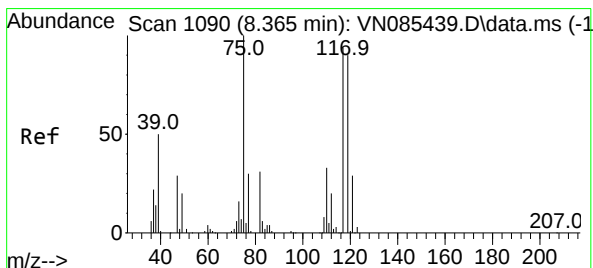
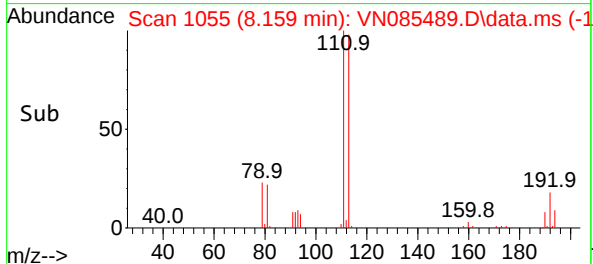
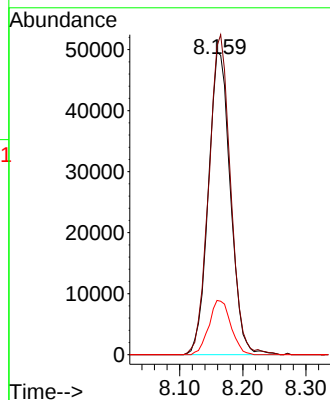
Tgt Ion:113 Resp: 120249

Ion Ratio Lower Upper

113 100

111 104.2 82.7 124.1

192 17.8 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

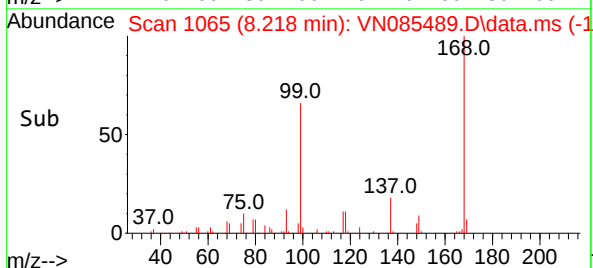
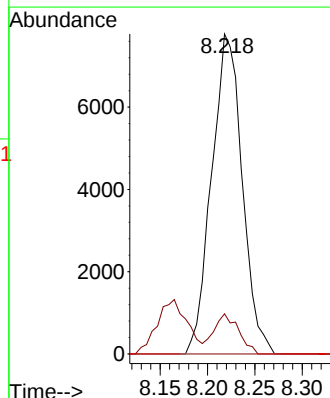
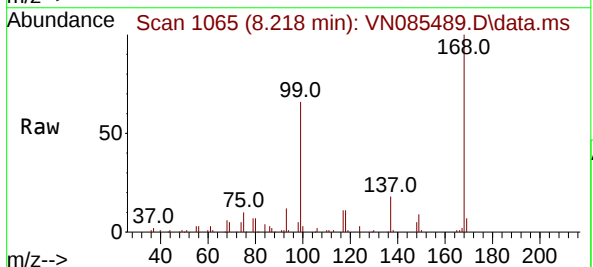
Tgt Ion: 75 Resp: 17460

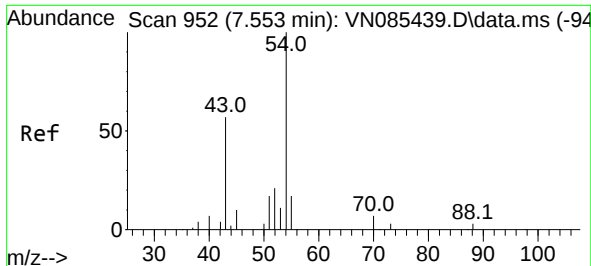
Ion Ratio Lower Upper

75 100

110 10.2 16.5 49.5#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.027 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

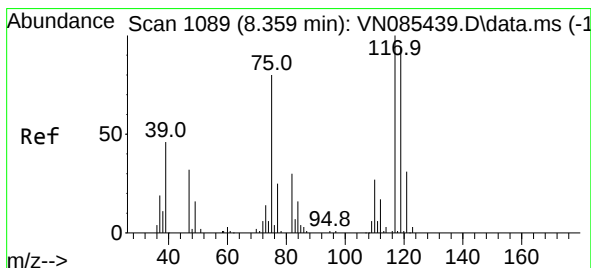
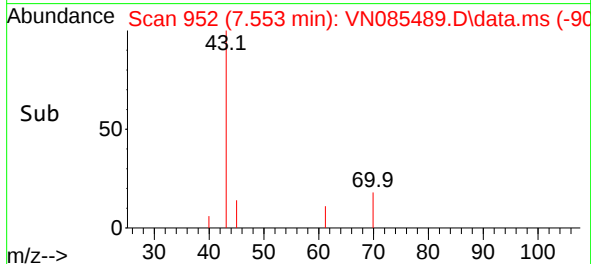
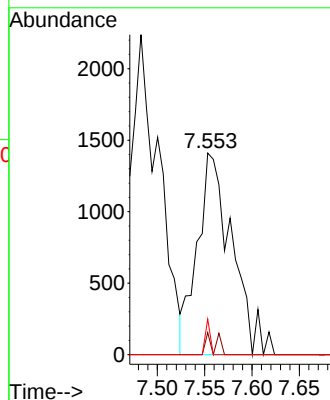
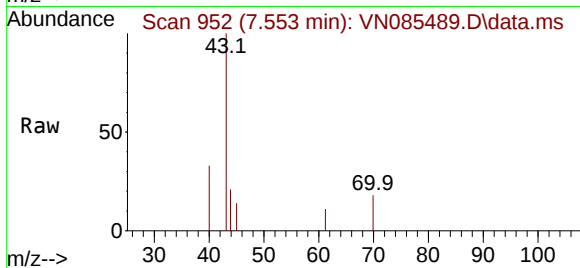
Instrument :

MSVOA_N

ClientSampleId :

PB166090TB

Tgt Ion:	43	Resp:	3596
Ion	Ratio	Lower	Upper
43	100		
61	3.0	10.9	16.3#
70	2.4	7.5	11.3#



#38

Carbon Tetrachloride

Concen: 5.304 ug/l

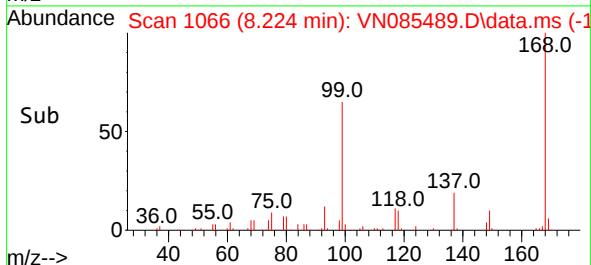
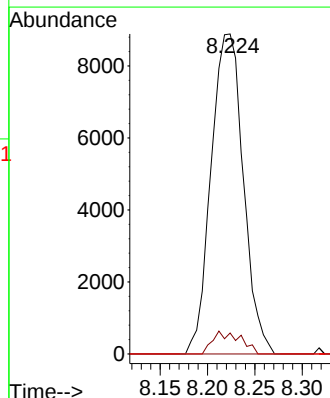
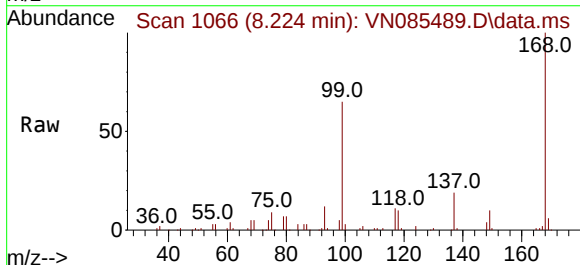
RT: 8.224 min Scan# 1066

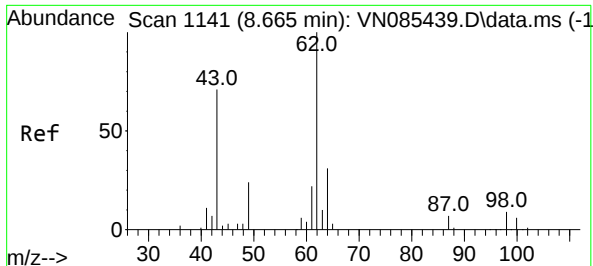
Delta R.T. -0.135 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

Tgt Ion:	117	Resp:	21073
Ion	Ratio	Lower	Upper
117	100		
119	6.5	75.4	113.2#
121	0.0	24.6	37.0#

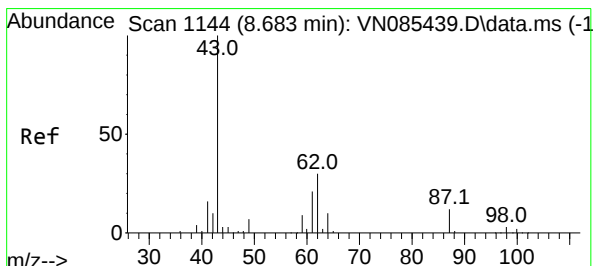
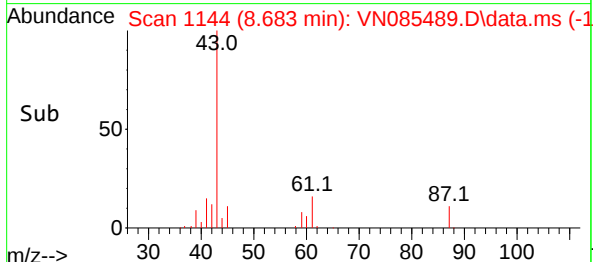
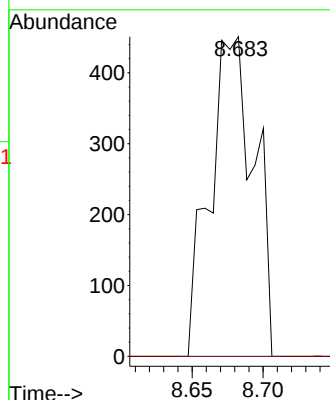
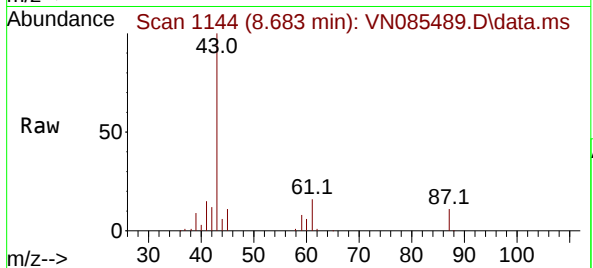




#42
1,2-Dichloroethane
Concen: 0.251 ug/l
RT: 8.683 min Scan# 1141
Delta R.T. 0.018 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

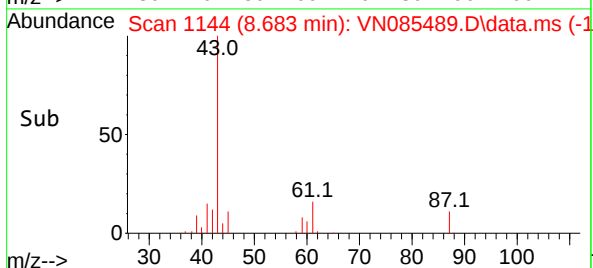
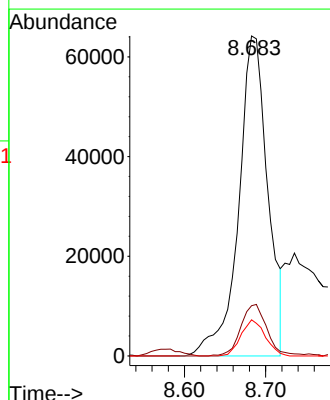
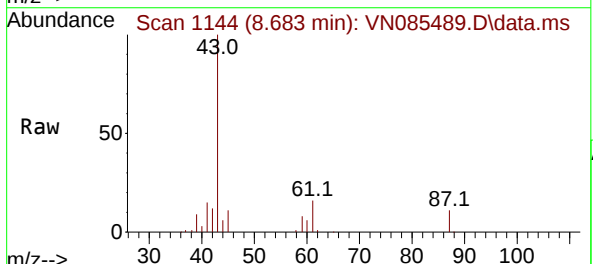
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

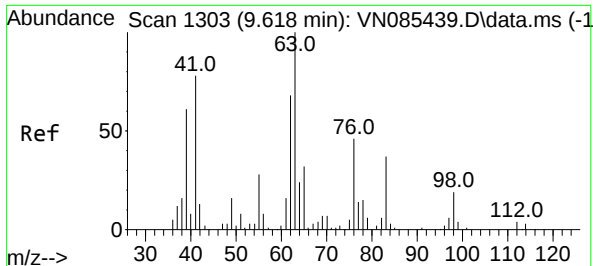
Tgt Ion: 62 Resp: 984
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



#43
Isopropyl Acetate
Concen: 28.566 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 43 Resp: 160325
Ion Ratio Lower Upper
43 100
61 14.7 20.7 31.1#
87 9.4 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.538 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

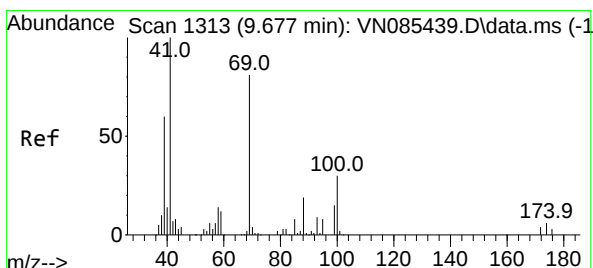
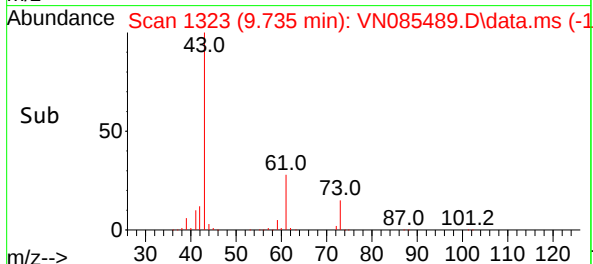
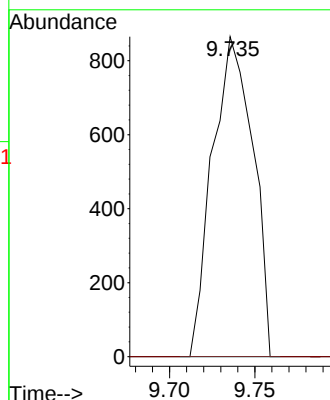
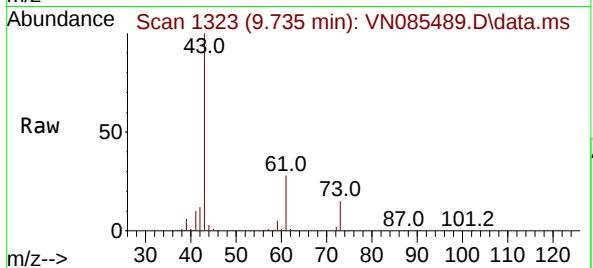
PB166090TB

Tgt Ion: 63 Resp: 1434

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.498 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

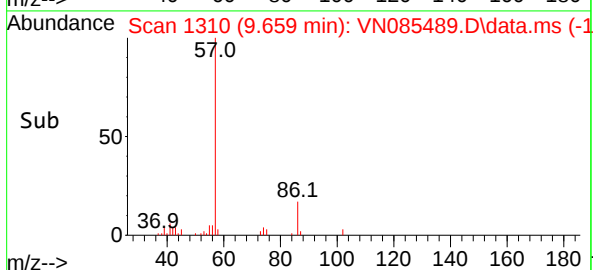
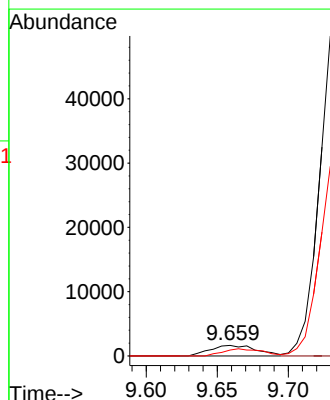
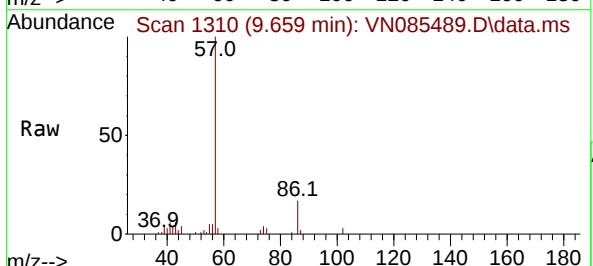
Tgt Ion: 41 Resp: 3783

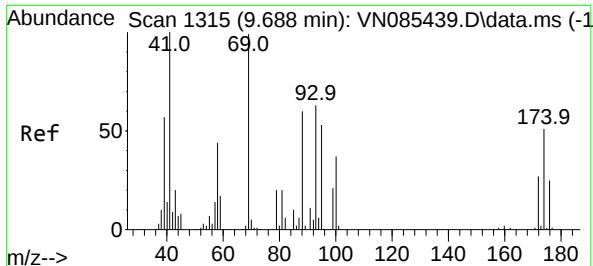
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 56.5 49.0 73.6





#49

1,4-Dioxane

Concen: 1.599 ug/l

RT: 9.735 min Scan# 1315

Delta R.T. 0.047 min

Lab File: VN085489.D

Acq: 17 Jan 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB166090TB

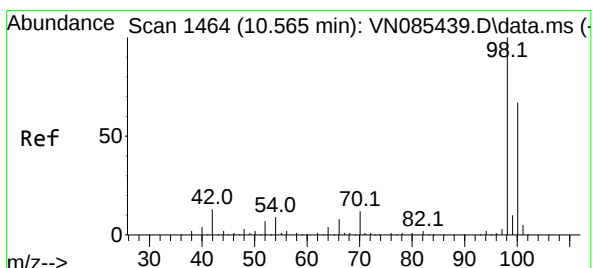
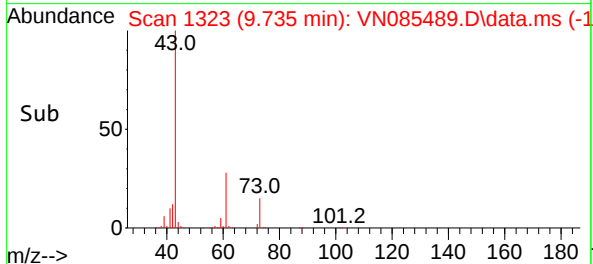
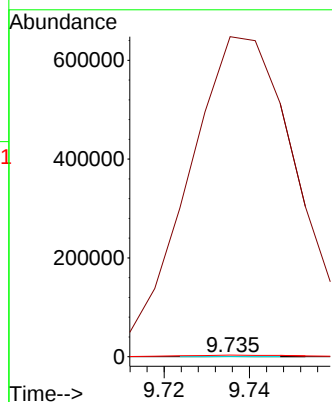
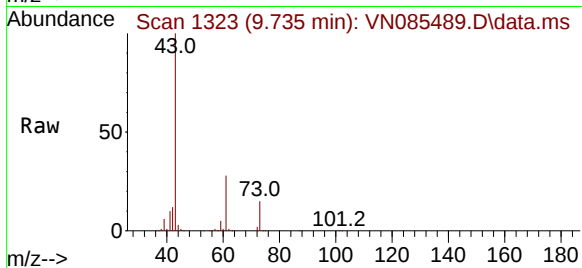
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 1745508.8 26.6 39.8#

58 9277.9 59.5 89.3#



#50

Toluene-d8

Concen: 51.052 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085489.D

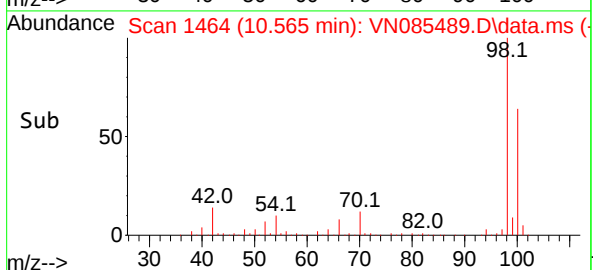
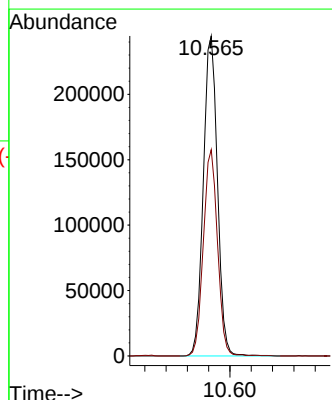
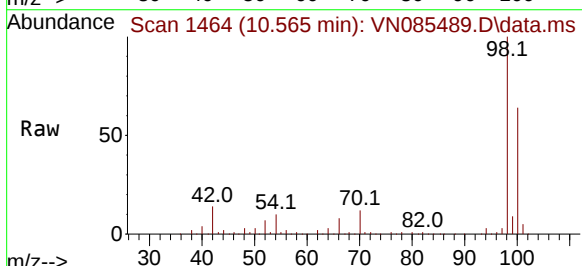
Acq: 17 Jan 2025 13:36

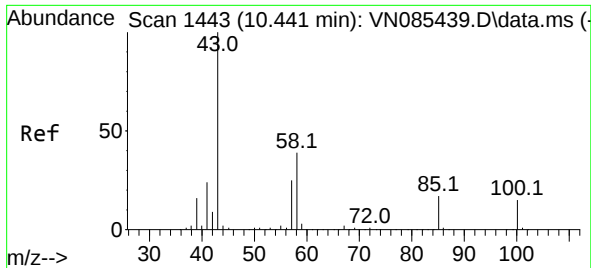
Tgt Ion: 98 Resp: 448488

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4

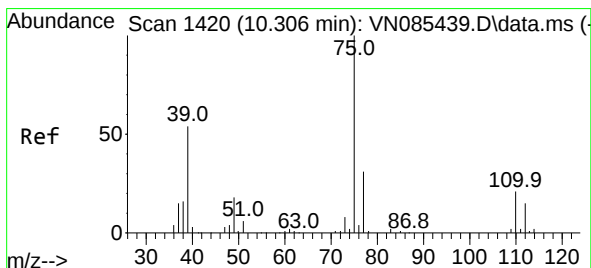
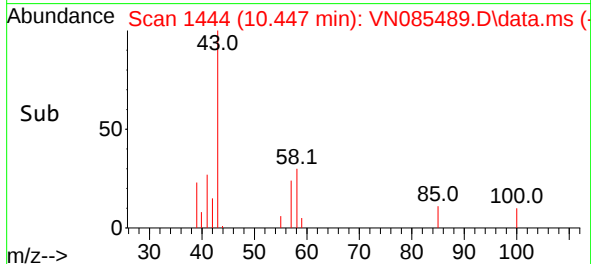
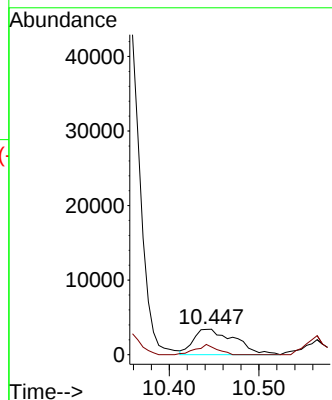
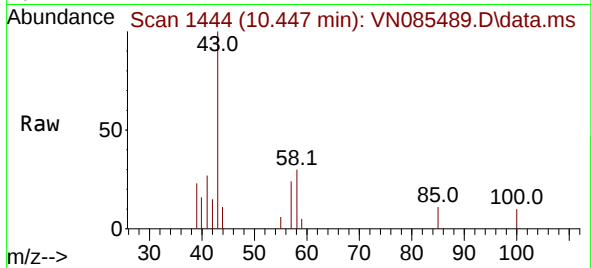




#51
4-Methyl-2-Pentanone
Concen: 3.370 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

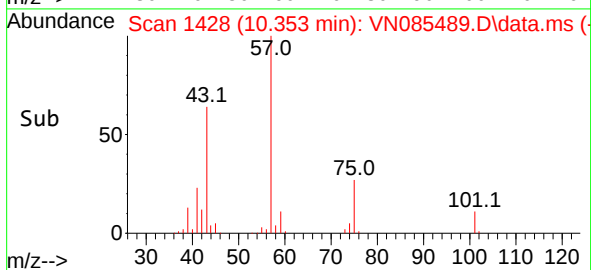
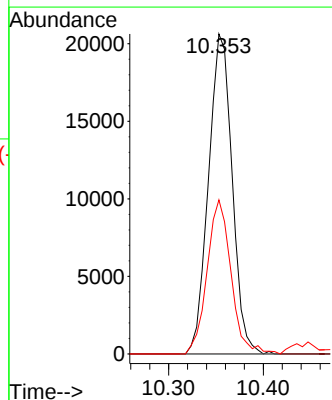
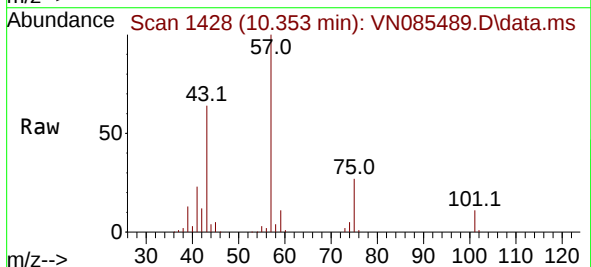
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

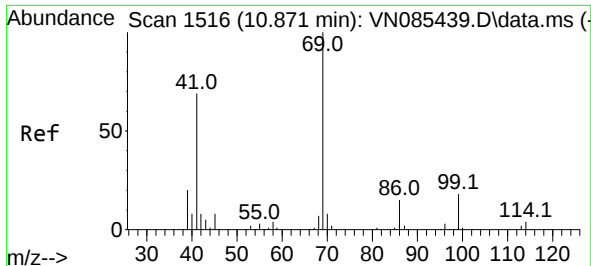
Tgt Ion: 43 Resp: 10975
Ion Ratio Lower Upper
43 100
58 20.5 30.5 45.7#



#54
cis-1,3-Dichloropropene
Concen: 9.041 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 75 Resp: 35730
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 48.2 43.1 64.7

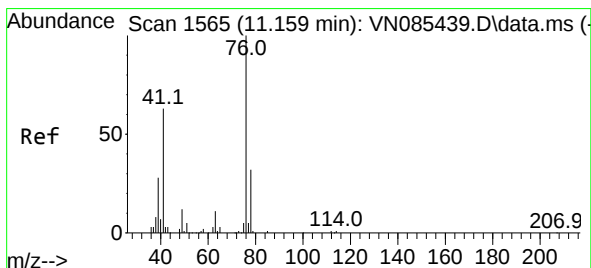
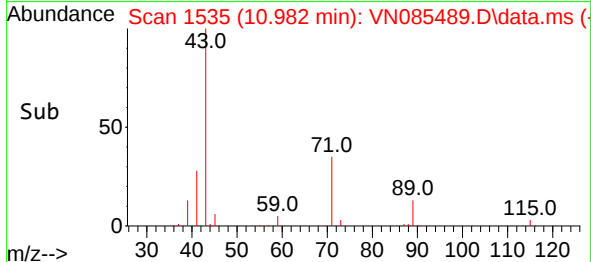
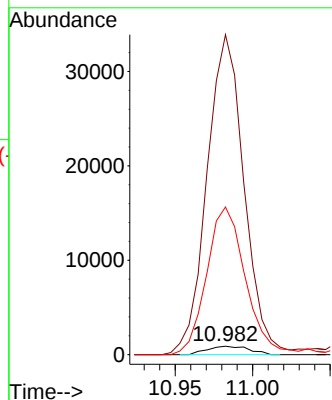
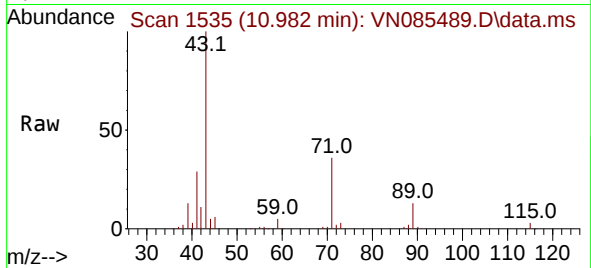




#56
Ethyl methacrylate
Concen: 2.336 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

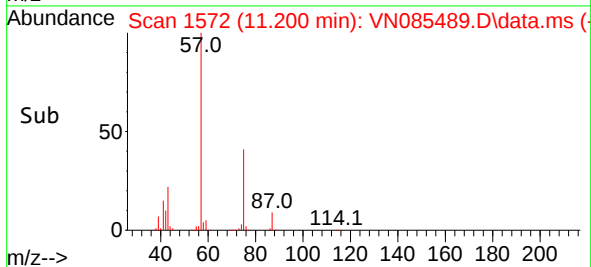
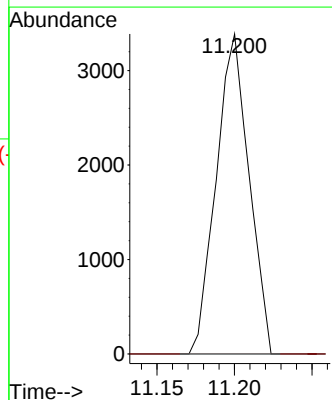
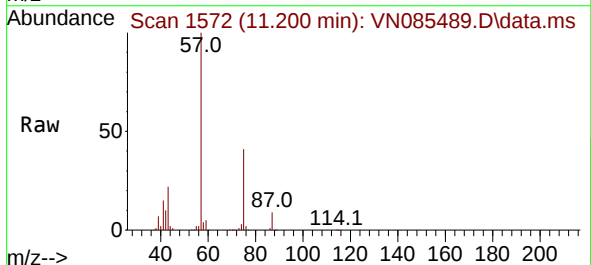
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

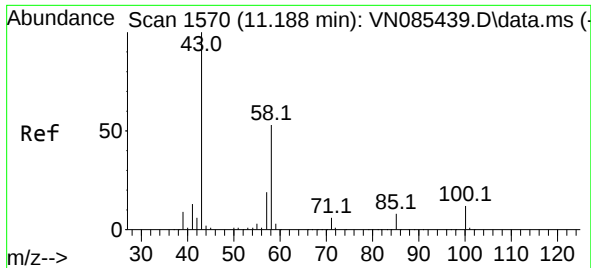
Tgt Ion: 69 Resp: 1696
Ion Ratio Lower Upper
69 100
41 3344.2 54.6 82.0#
39 1628.4 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.199 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 76 Resp: 4984
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

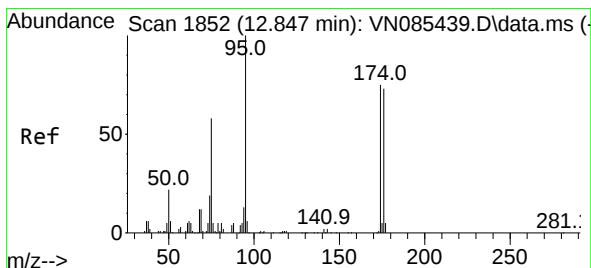
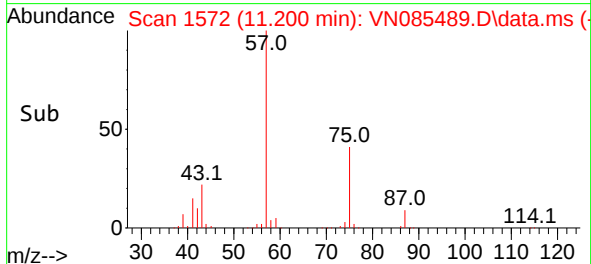
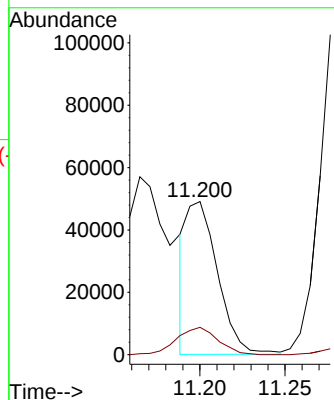
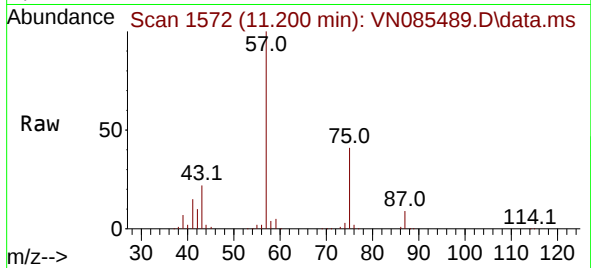




#59
2-Hexanone
Concen: 27.025 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

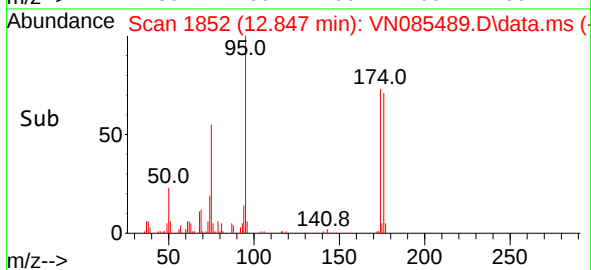
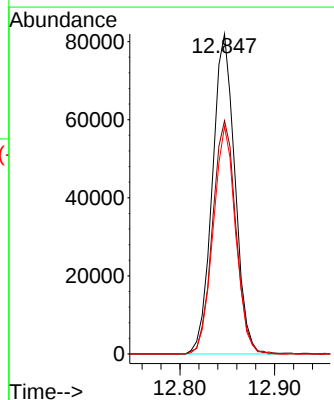
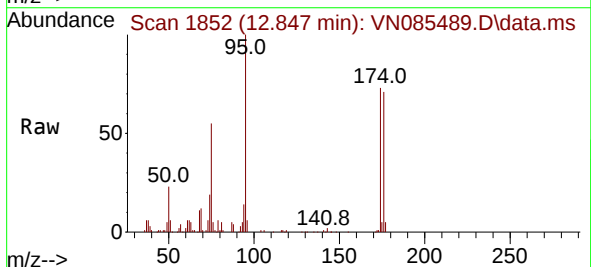
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

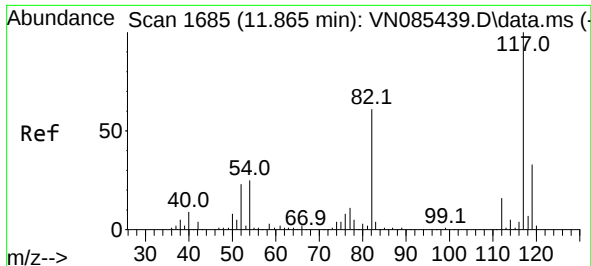
Tgt Ion: 43 Resp: 61931
Ion Ratio Lower Upper
43 100
58 24.0 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 45.108 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 95 Resp: 135555
Ion Ratio Lower Upper
95 100
174 75.3 0.0 145.0
176 70.8 0.0 142.4

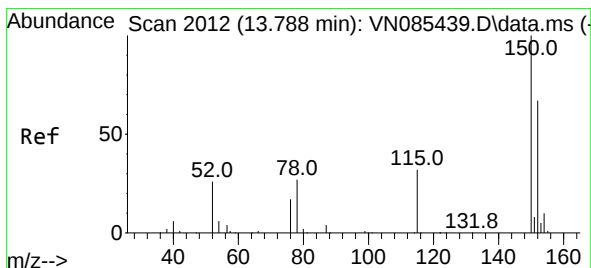
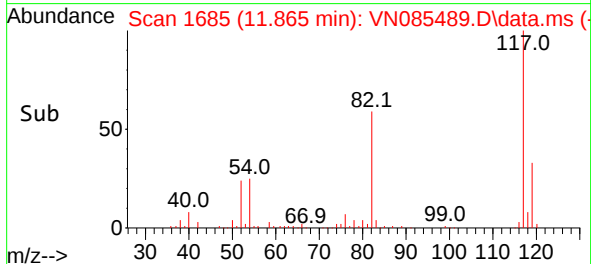
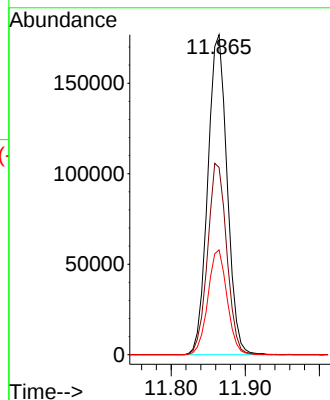
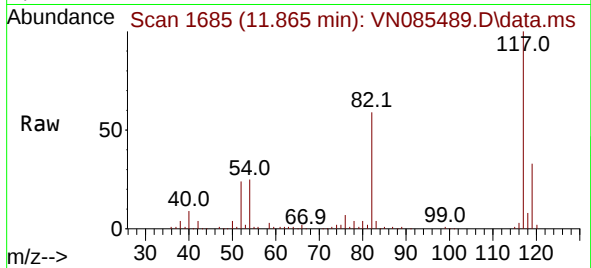




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

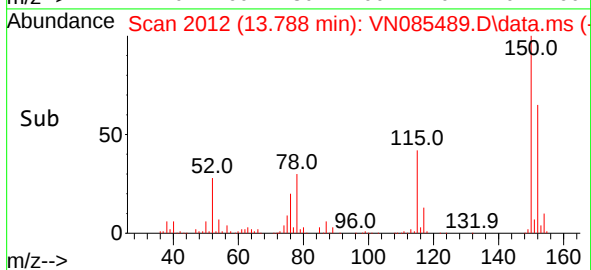
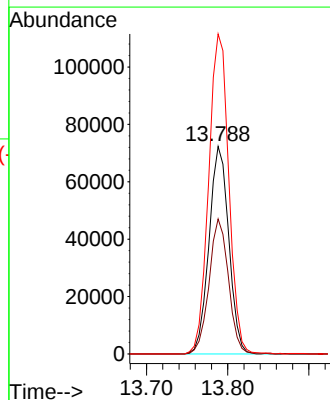
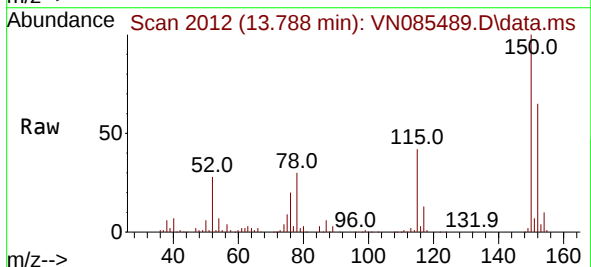
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

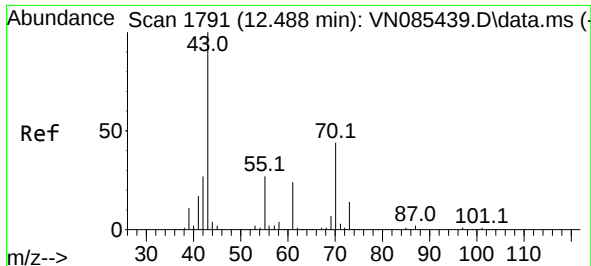
Tgt Ion:117 Resp: 320476
Ion Ratio Lower Upper
117 100
82 58.5 48.6 72.8
119 32.7 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion:152 Resp: 122339
Ion Ratio Lower Upper
152 100
115 63.7 31.1 93.3
150 156.7 0.0 343.6

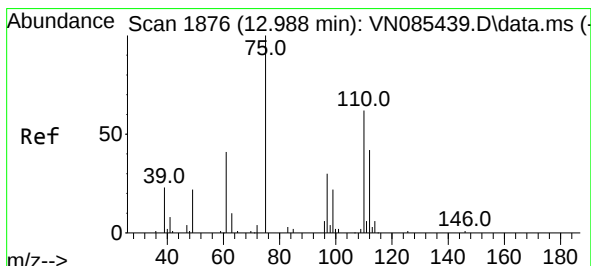
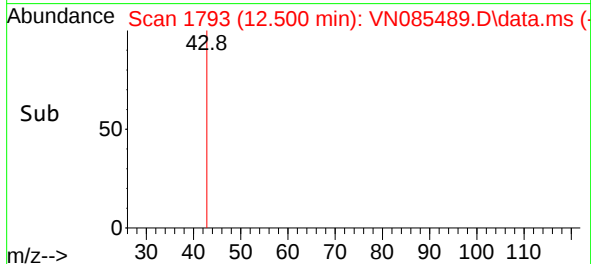
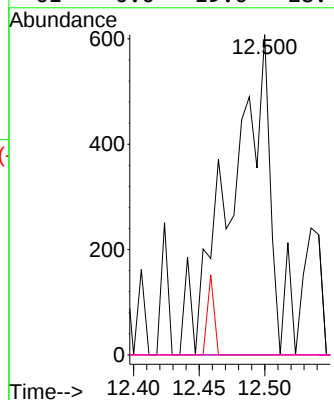
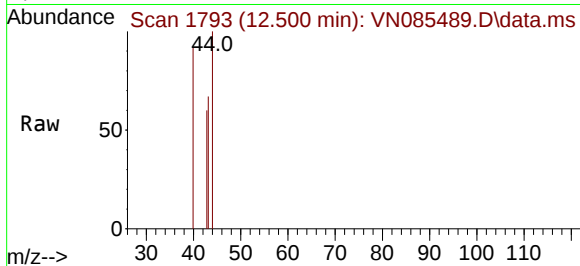




#74
N-amy1 acetate
Concen: 0.339 ug/l
RT: 12.500 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

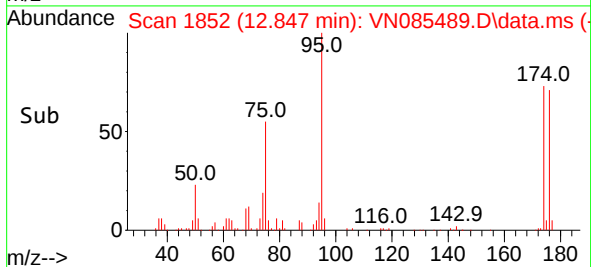
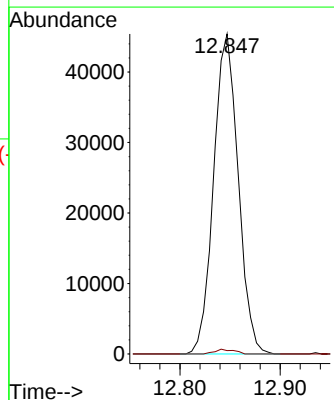
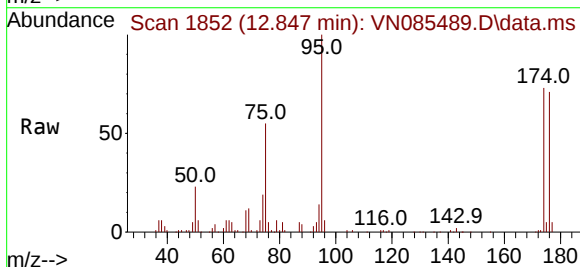
Instrument :
MSVOA_N
ClientSampleId :
PB166090TB

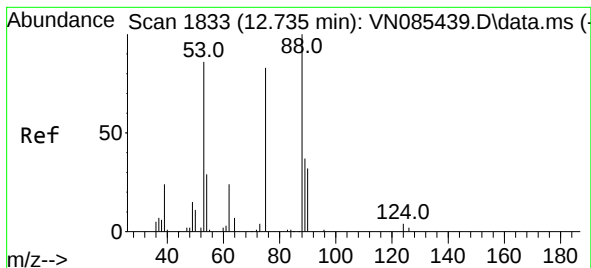
Tgt Ion: 43	Resp: 1258
Ion Ratio	Lower Upper
43 100	
70 0.0	34.0 51.0#
55 0.0	21.4 32.2#
61 0.0	19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.048 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085489.D
Acq: 17 Jan 2025 13:36

Tgt Ion: 75	Resp:	77202	
Ion Ratio	Lower	Upper	
75 100			
77 1.2	109.7	329.2#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.001 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085489.D
 Acq: 17 Jan 2025 13:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166090TB

Tgt Ion: 75 Resp: 77202
 Ion Ratio Lower Upper
 75 100
 53 0.0 95.6 143.4#
 89 0.0 37.0 55.6#

