

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086412.D
 Acq On : 28 Apr 2025 15:33
 Operator : JC\MD
 Sample : PB167744ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#09

Quant Time: Apr 29 01:54:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

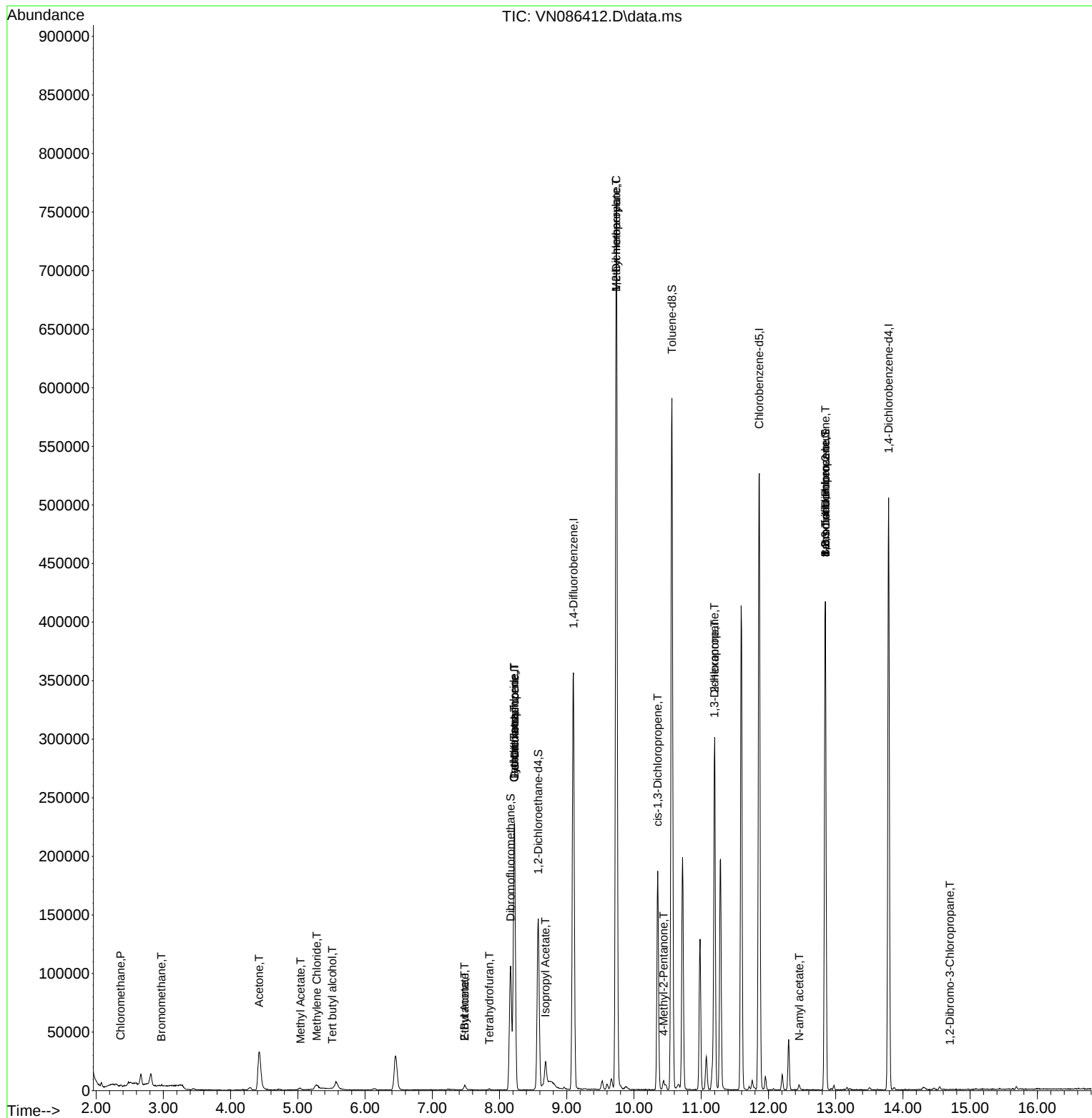
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	167955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	320799	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136625	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121066	49.709	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.420%
35) Dibromofluoromethane	8.165	113	79212	53.203	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.400%
50) Toluene-d8	10.565	98	413752	51.997	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.000%
62) 4-Bromofluorobenzene	12.847	95	152316	52.480	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.960%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	885	0.306	ug/l	90
5) Bromomethane	2.971	94	267	0.215	ug/l	97
11) Tert butyl alcohol	5.512	59	706	1.589	ug/l #	72
16) Acetone	4.424	43	66025	74.401	ug/l	99
18) Methyl Acetate	5.042	43	3187	1.090	ug/l #	83
20) Methylene Chloride	5.283	84	3232	1.435	ug/l #	76
25) 2-Butanone	7.483	43	6504	4.290	ug/l	99
29) Tetrahydrofuran	7.847	42	735	0.725	ug/l #	39
31) Cyclohexane	8.218	56	3735	0.946	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13979	4.701	ug/l #	49
37) Ethyl Acetate	7.483	43	6504	2.077	ug/l #	68
38) Carbon Tetrachloride	8.218	117	16634	5.874	ug/l #	16
43) Isopropyl Acetate	8.683	43	33077	4.096	ug/l #	81
45) 1,2-Dichloropropane	9.735	63	928	0.398	ug/l #	43
48) Methyl methacrylate	9.735	41	69708	25.354	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4859	1.516	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	34471	8.760	ug/l #	58
57) 1,3-Dichloropropane	11.194	76	3190	0.841	ug/l #	43
59) 2-Hexanone	11.200	43	60613	25.490	ug/l #	43
71) Bromoform	12.847	173	684	0.396	ug/l #	1
74) N-amyl acetate	12.459	43	3738	0.672	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	79443	24.640	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	79443	59.176	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.700	75	133	0.205	ug/l #	5

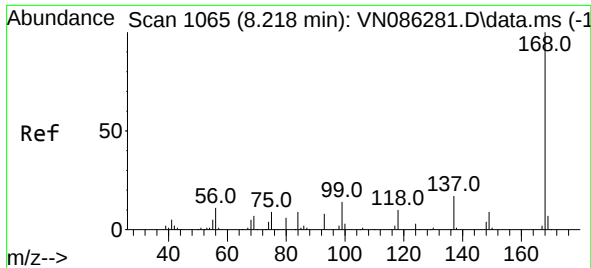
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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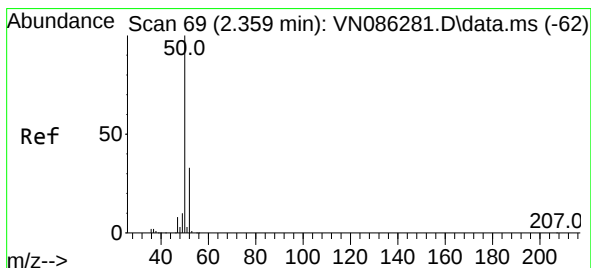
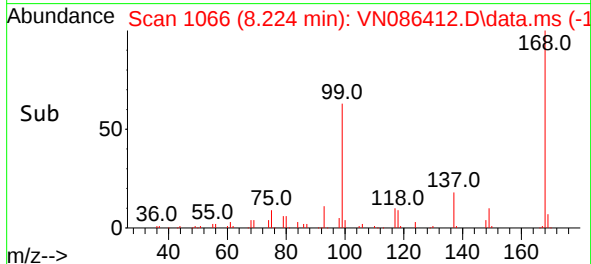
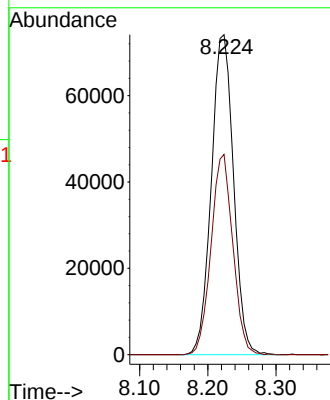
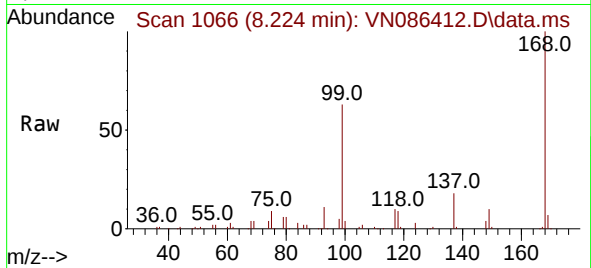




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

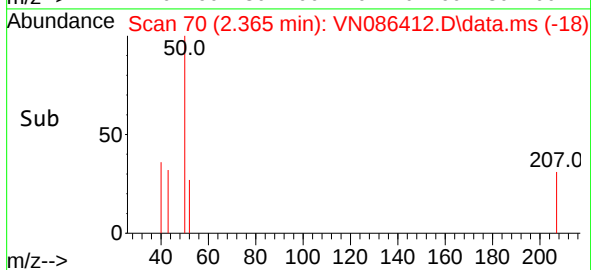
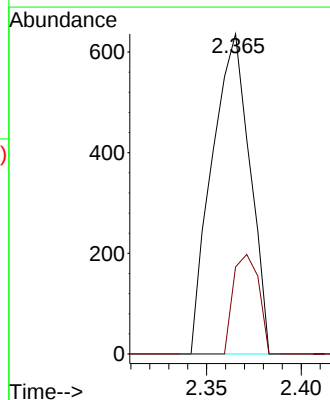
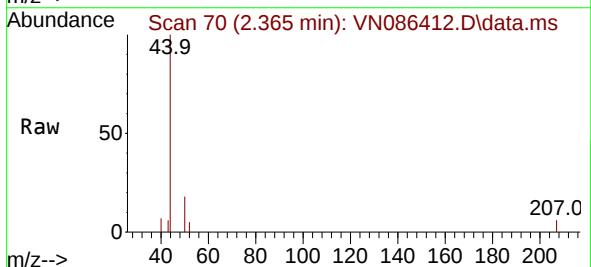
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

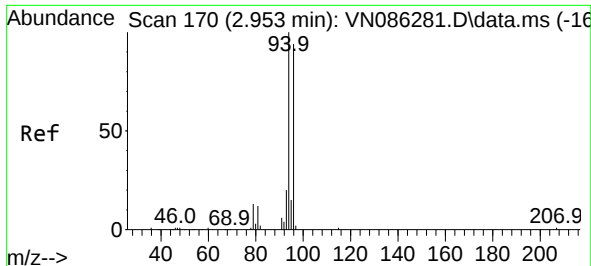
Tgt Ion:168 Resp: 167955
Ion Ratio Lower Upper
168 100
99 62.6 52.5 78.7



#3
Chloromethane
Concen: 0.306 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 50 Resp: 885
Ion Ratio Lower Upper
50 100
52 27.2 26.5 39.7

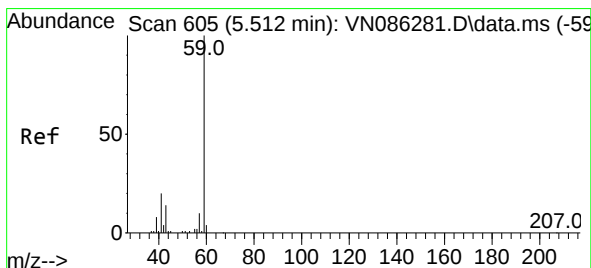
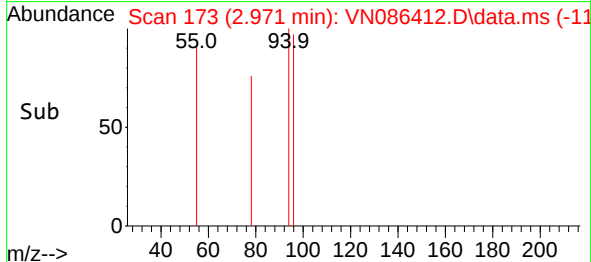
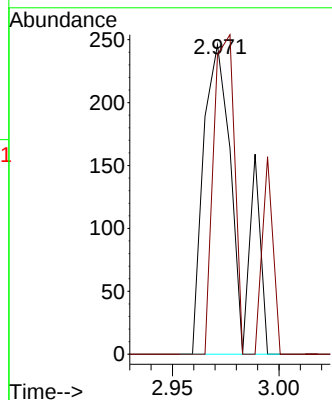
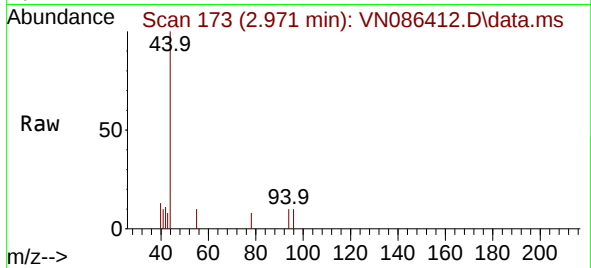




#5
Bromomethane
Concen: 0.215 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

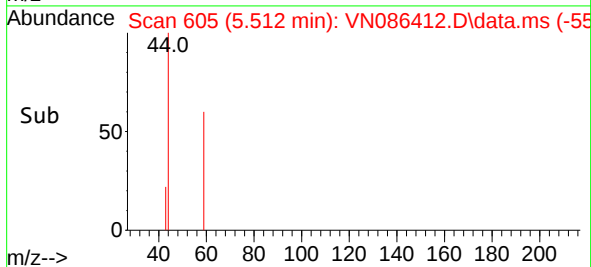
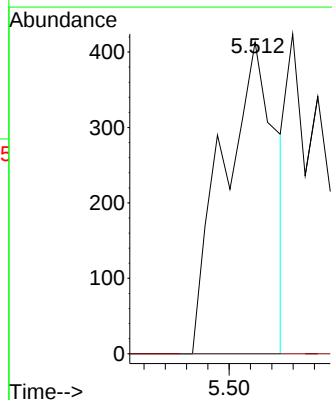
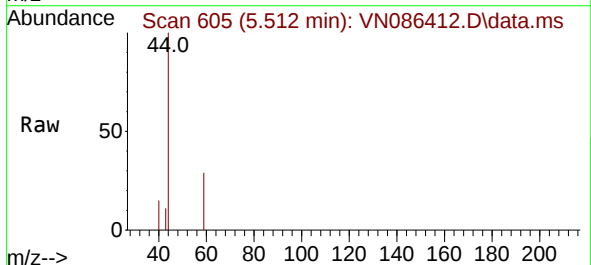
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

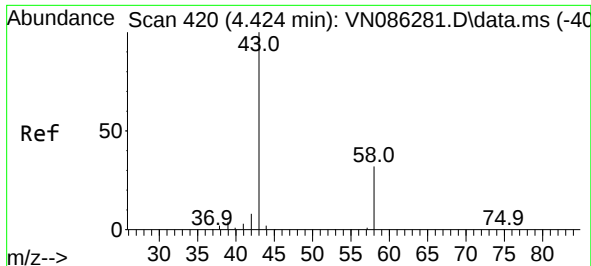
Tgt Ion: 94 Resp: 267
Ion Ratio Lower Upper
94 100
96 96.7 75.2 112.8



#11
Tert butyl alcohol
Concen: 1.589 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 59 Resp: 706
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

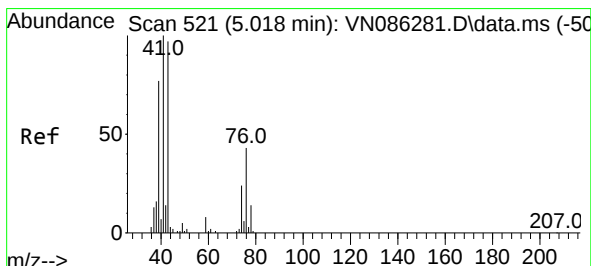
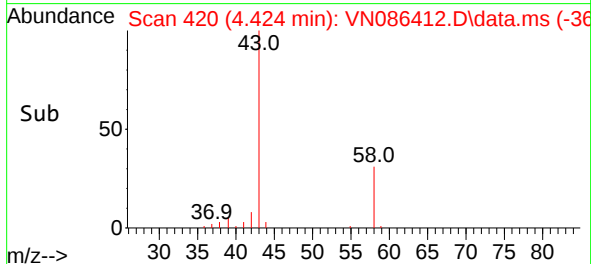
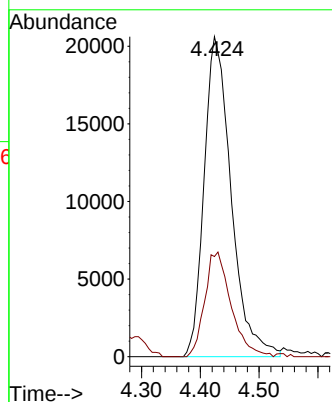
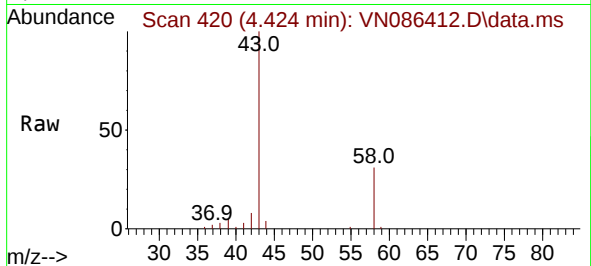




#16
Acetone
Concen: 74.401 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

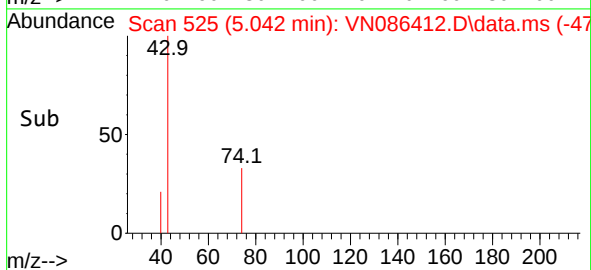
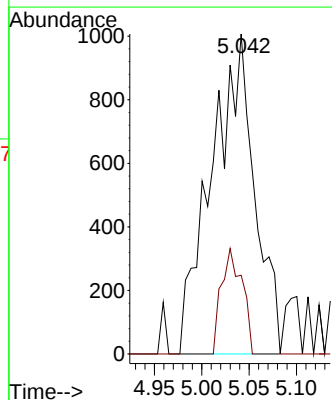
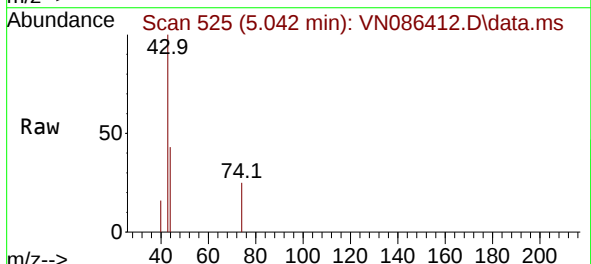
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

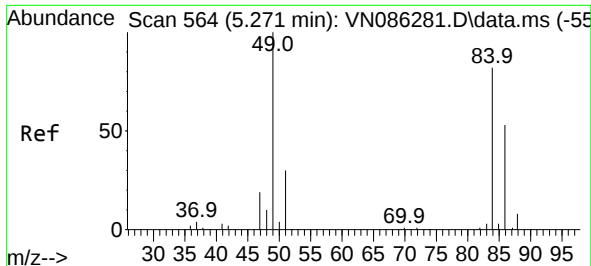
Tgt Ion: 43 Resp: 66025
Ion Ratio Lower Upper
43 100
58 31.3 25.3 37.9



#18
Methyl Acetate
Concen: 1.090 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.024 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

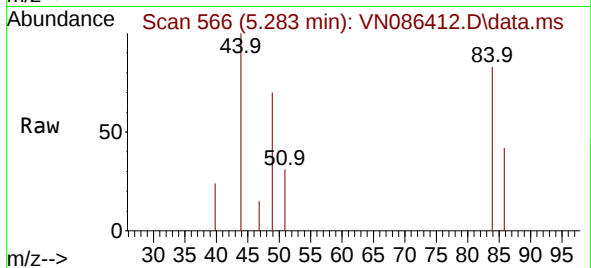
Tgt Ion: 43 Resp: 3187
Ion Ratio Lower Upper
43 100
74 16.0 19.8 29.6#



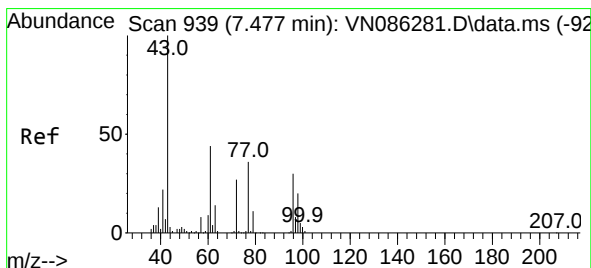
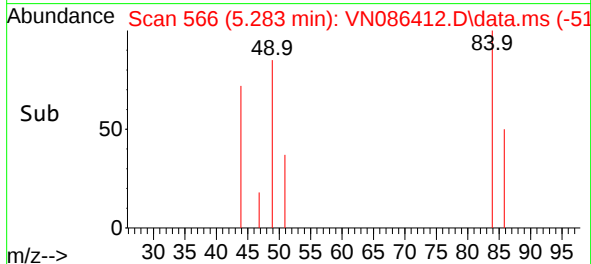
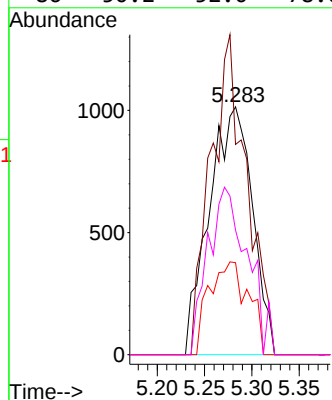


#20
Methylene Chloride
Concen: 1.435 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

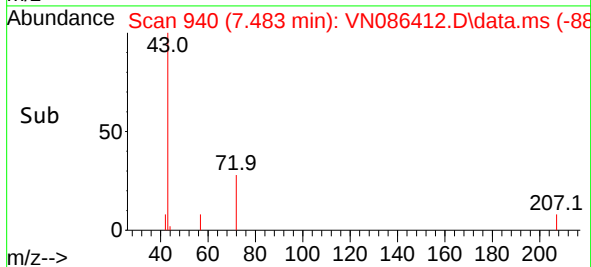
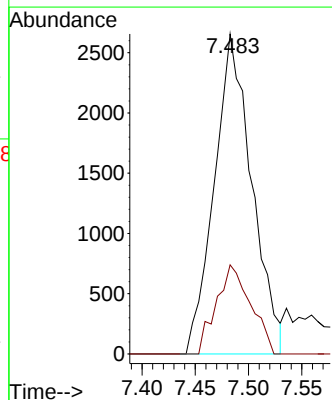
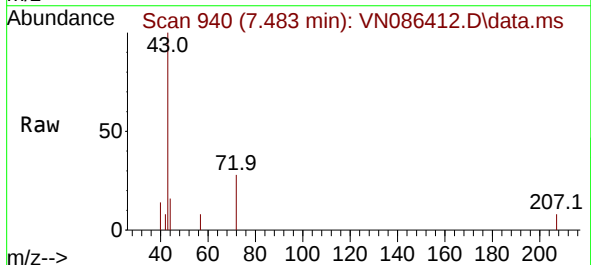


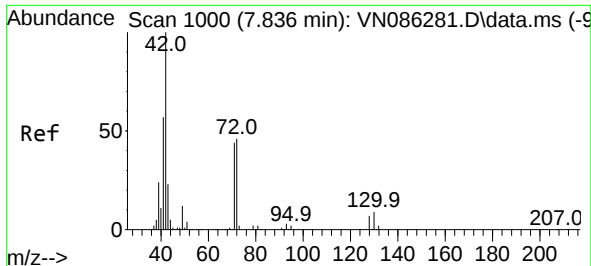
Tgt Ion	84	Resp:	3232
Ion	Ratio	Lower	Upper
84	100		
49	84.8	98.2	147.2#
51	37.1	29.8	44.6
86	50.2	52.0	78.0#



#25
2-Butanone
Concen: 4.290 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion	43	Resp:	6504
Ion	Ratio	Lower	Upper
43	100		
72	27.9	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.725 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

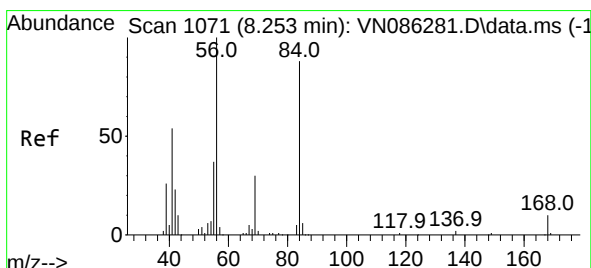
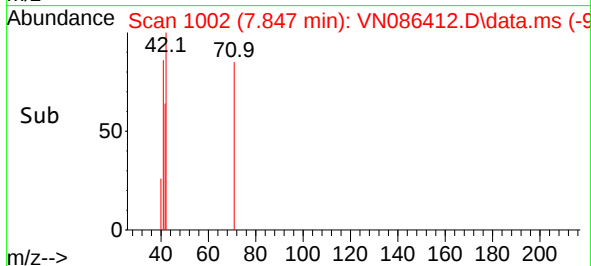
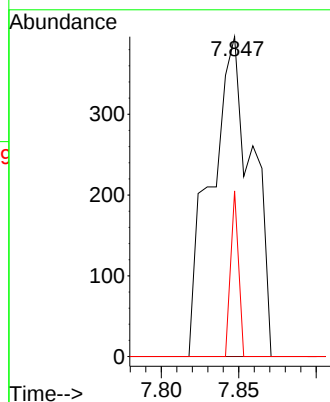
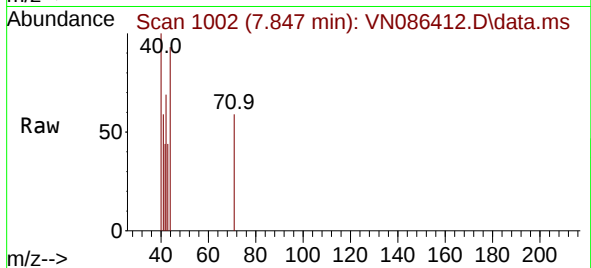
Instrument :

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ClientSampleId :

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Tgt Ion:	42	Resp:	735
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	9.8	34.0	51.0#



#31

Cyclohexane

Concen: 0.946 ug/l

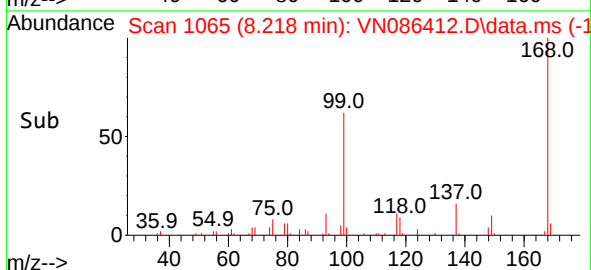
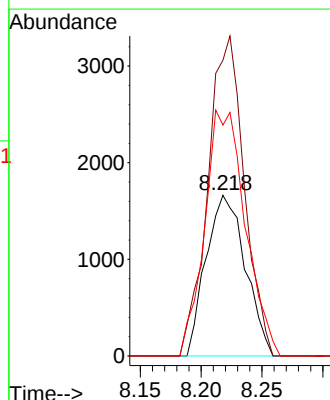
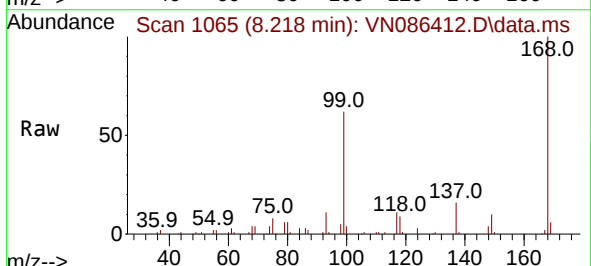
RT: 8.218 min Scan# 1065

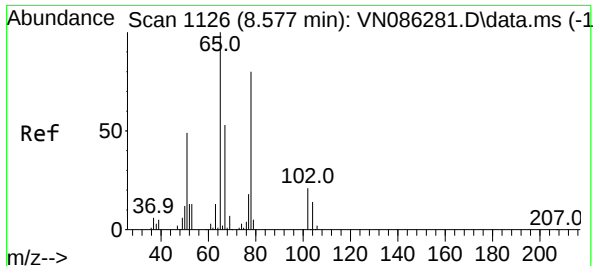
Delta R.T. -0.035 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Tgt Ion:	56	Resp:	3735
Ion	Ratio	Lower	Upper
56	100		
69	184.1	24.2	36.2#
84	143.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.709 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

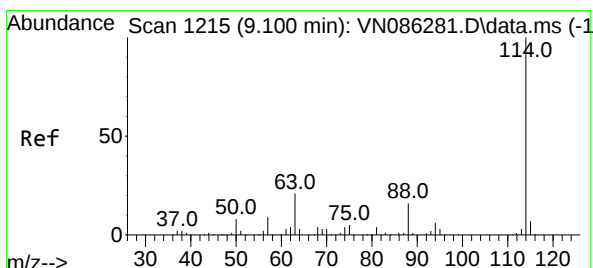
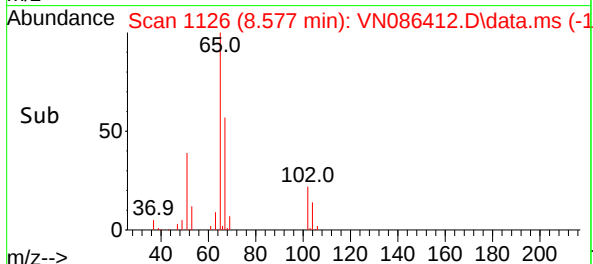
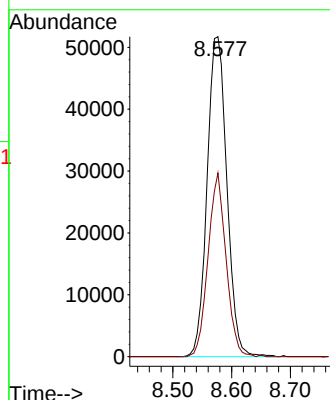
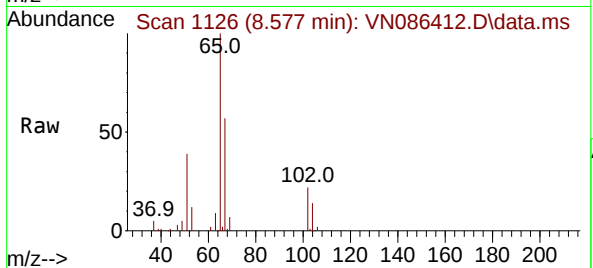
PB167744ZHE#09

Tgt Ion: 65 Resp: 121066

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

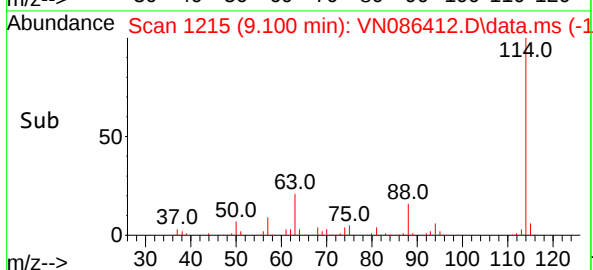
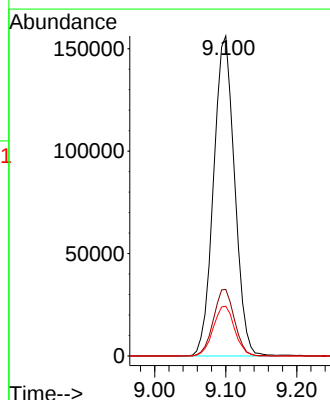
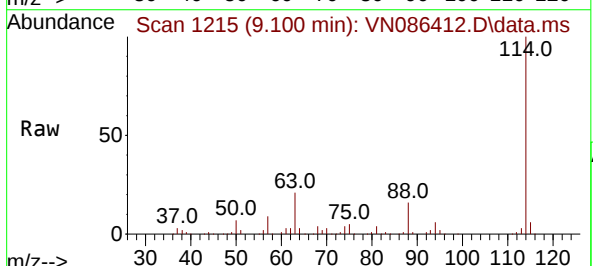
Tgt Ion: 114 Resp: 320799

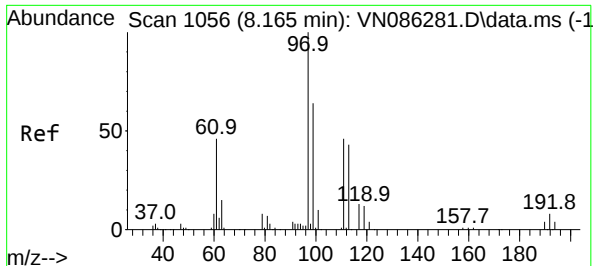
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.203 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

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MSVOA_N

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PB167744ZHE#09

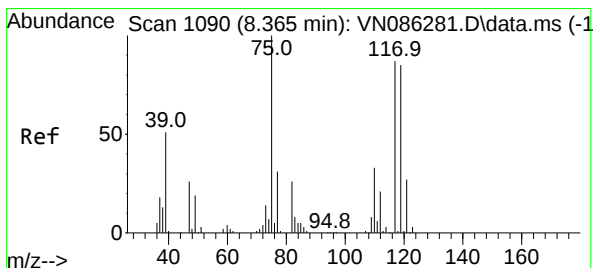
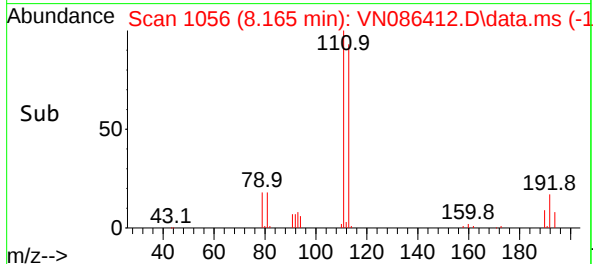
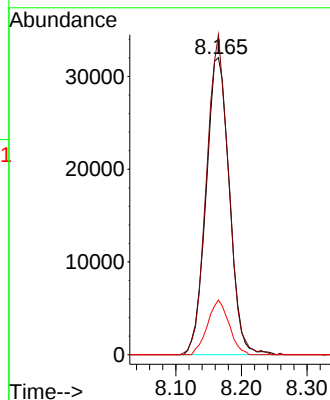
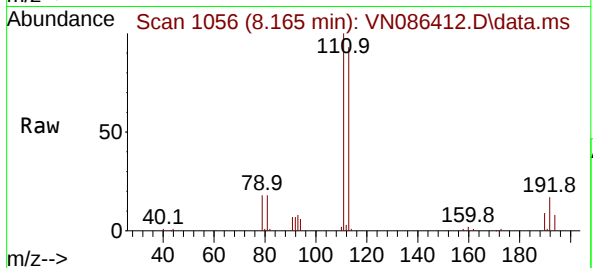
Tgt Ion:113 Resp: 79212

Ion Ratio Lower Upper

113 100

111 102.1 83.4 125.0

192 16.9 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.701 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

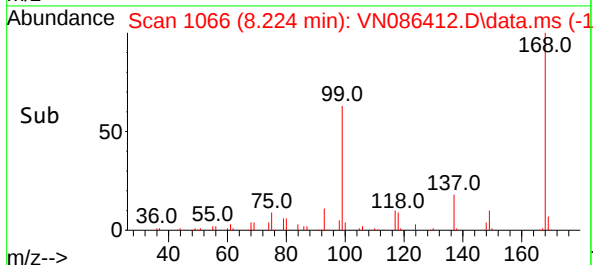
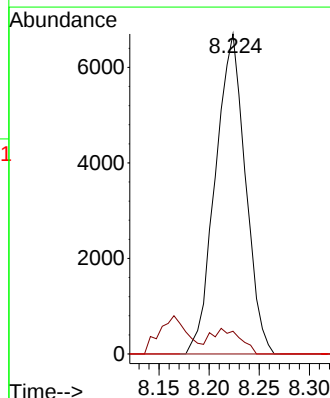
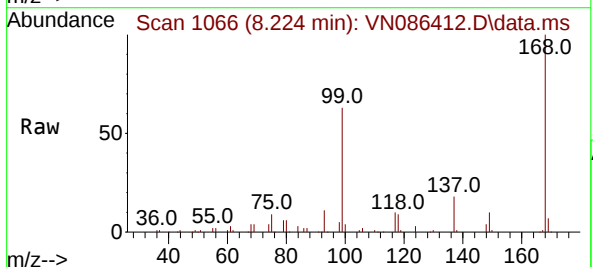
Tgt Ion: 75 Resp: 13979

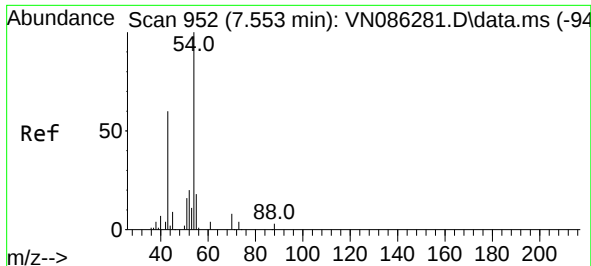
Ion Ratio Lower Upper

75 100

110 7.6 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 2.077 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Instrument :

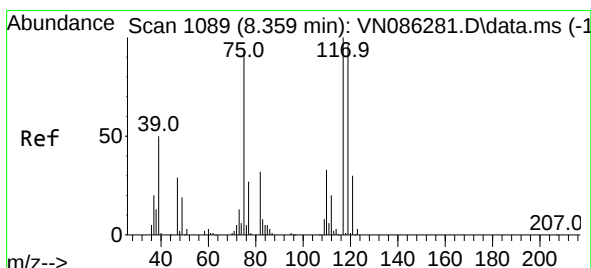
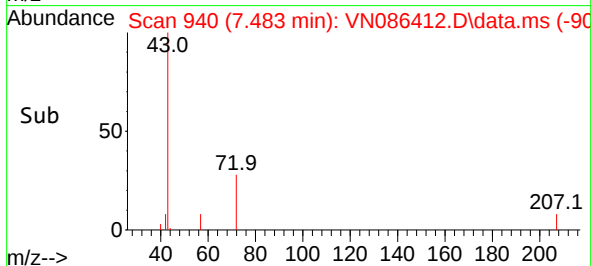
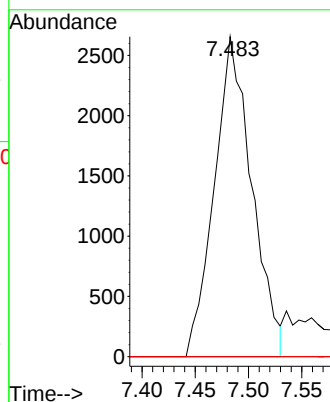
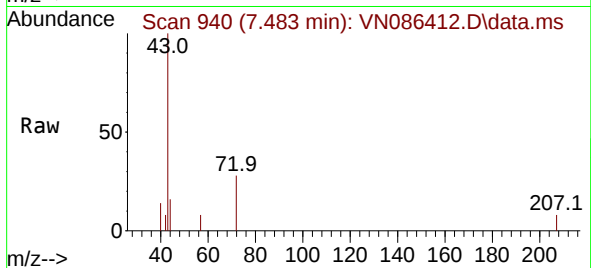
MSVOA_N

ClientSampleId :

PB167744ZHE#09

Tgt Ion: 43 Resp: 6504

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	9.2	13.8#



#38

Carbon Tetrachloride

Concen: 5.874 ug/l

RT: 8.218 min Scan# 1065

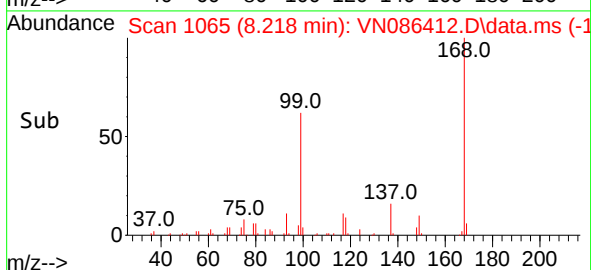
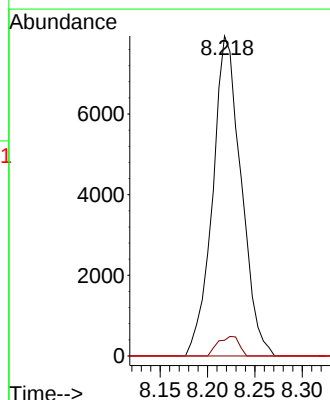
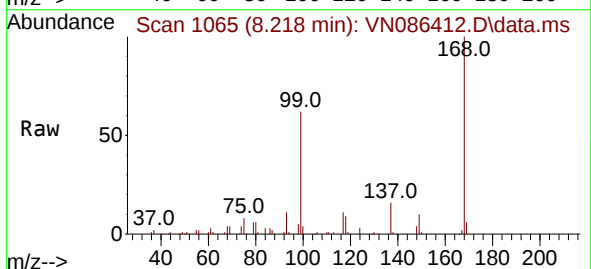
Delta R.T. -0.141 min

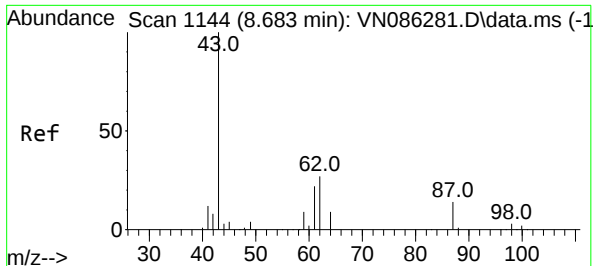
Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Tgt Ion: 117 Resp: 16634

Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.8	115.2#
121	0.0	23.8	35.8#

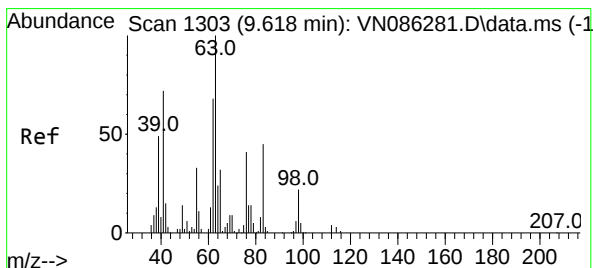
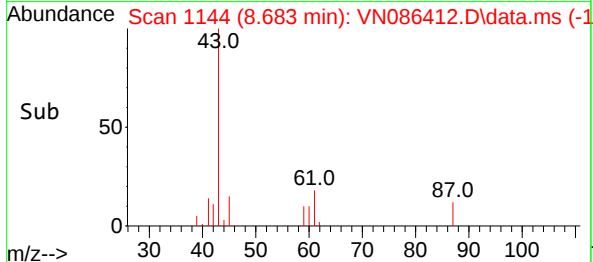
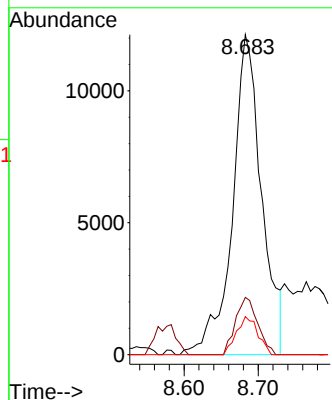
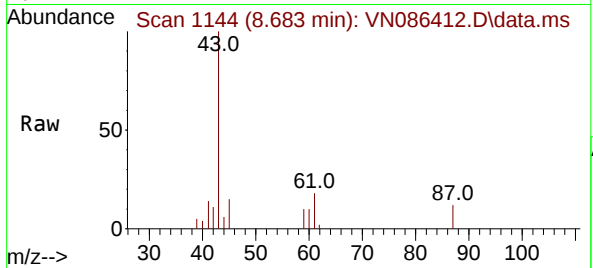




#43
Isopropyl Acetate
Concen: 4.096 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

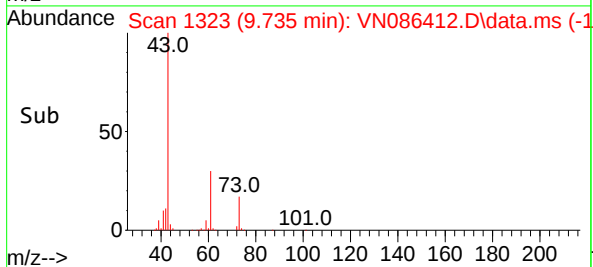
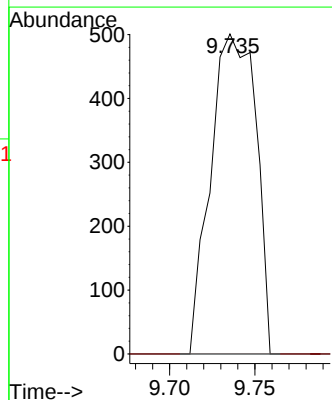
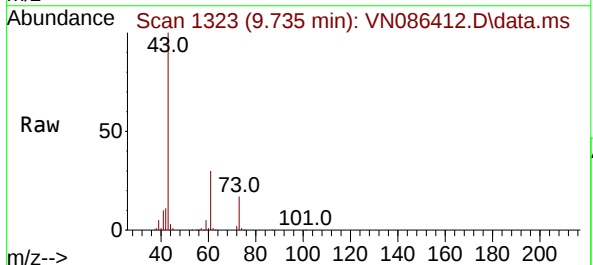
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

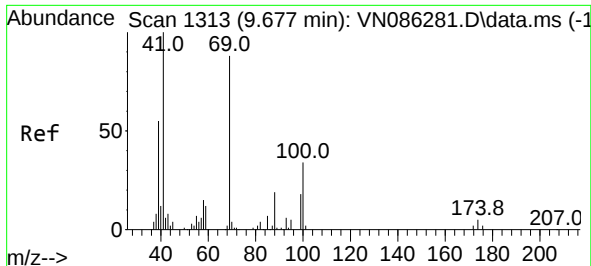
Tgt Ion: 43 Resp: 33077
Ion Ratio Lower Upper
43 100
61 13.6 20.5 30.7#
87 8.7 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.398 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 63 Resp: 928
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 25.354 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#09

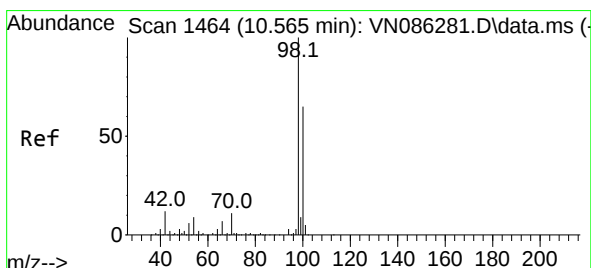
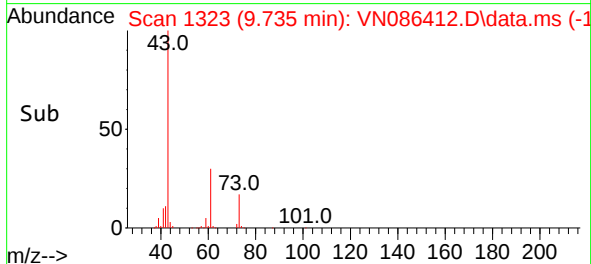
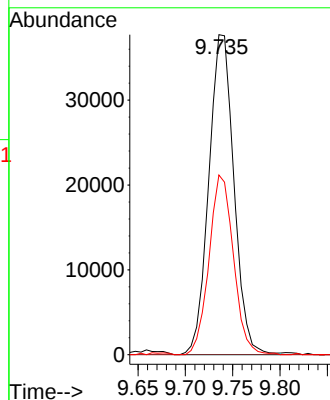
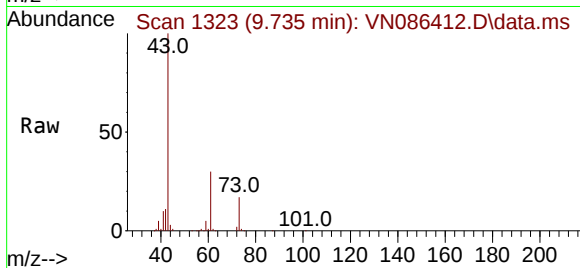
Tgt Ion: 41 Resp: 69708

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.6 45.2 67.8



#50

Toluene-d8

Concen: 51.997 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086412.D

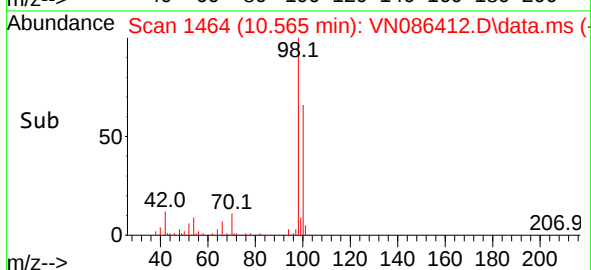
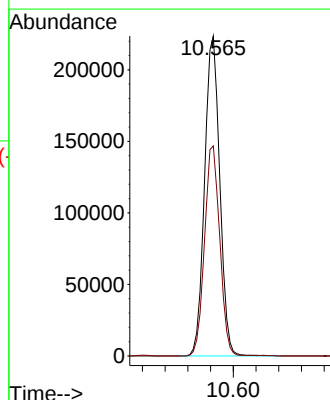
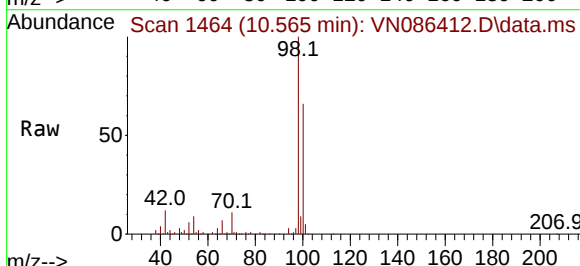
Acq: 28 Apr 2025 15:33

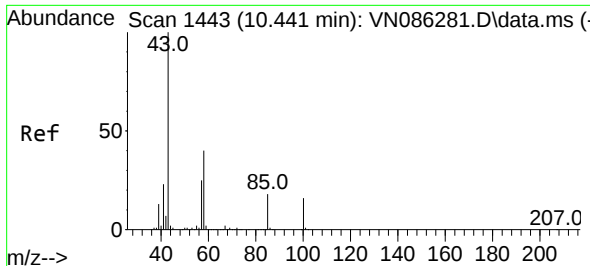
Tgt Ion: 98 Resp: 413752

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7

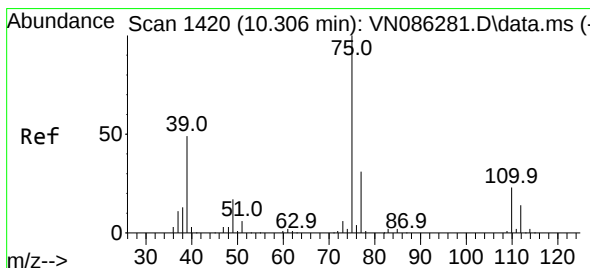
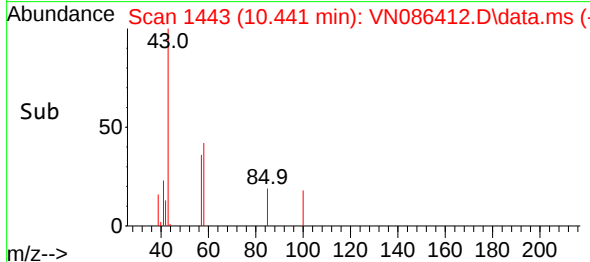
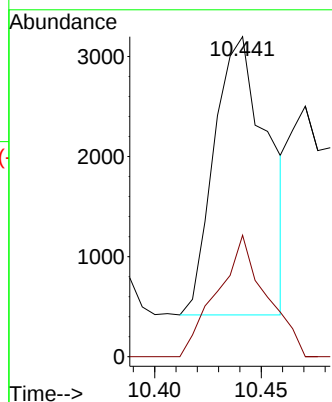
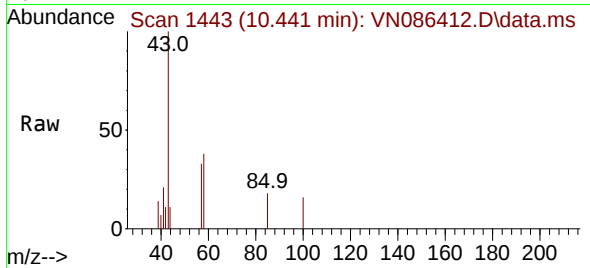




#51
4-Methyl-2-Pentanone
Concen: 1.516 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

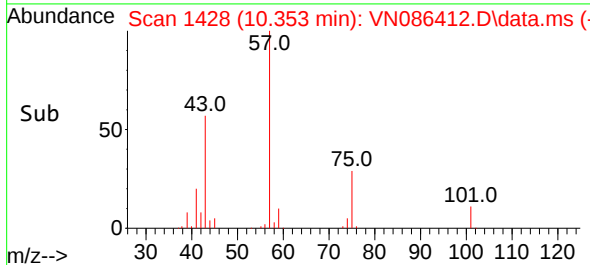
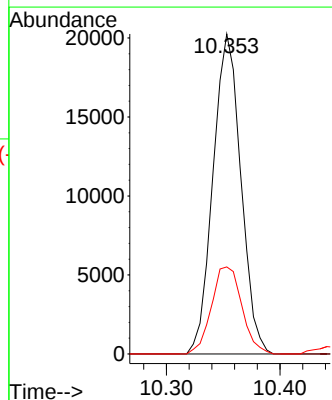
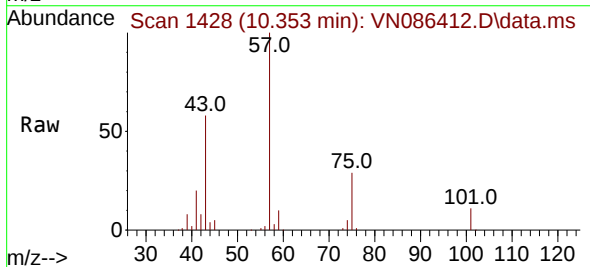
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

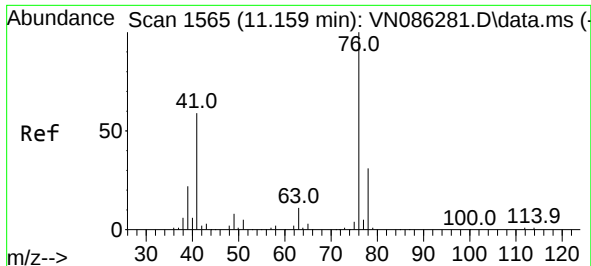
Tgt Ion: 43 Resp: 4859
Ion Ratio Lower Upper
43 100
58 39.8 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.760 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 75 Resp: 34471
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.2 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.841 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086412.D

Acq: 28 Apr 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

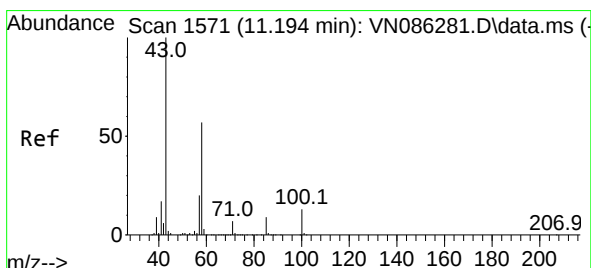
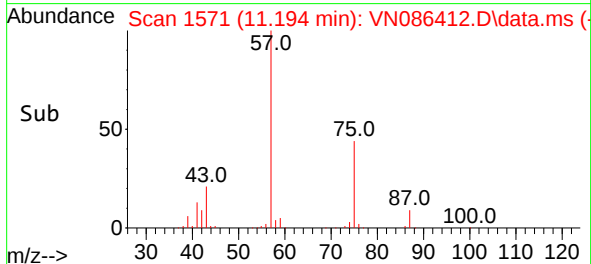
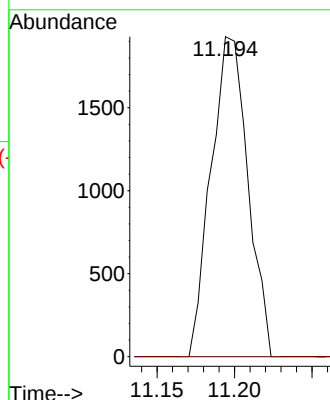
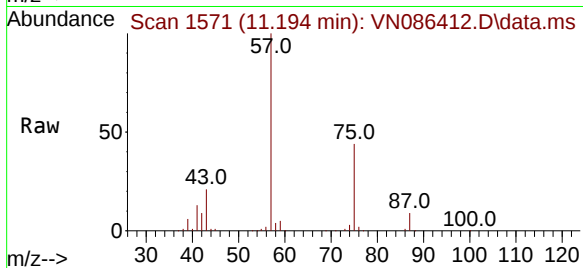
PB167744ZHE#09

Tgt Ion: 76 Resp: 3190

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 25.490 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086412.D

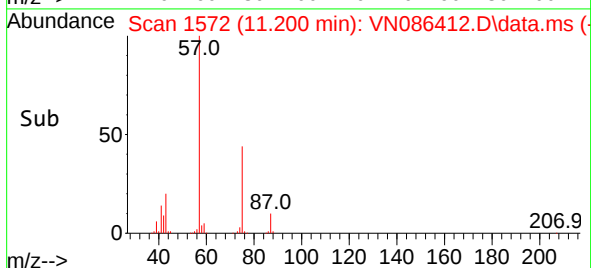
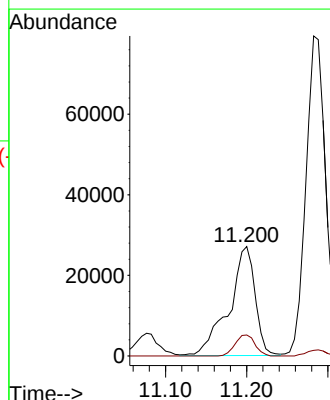
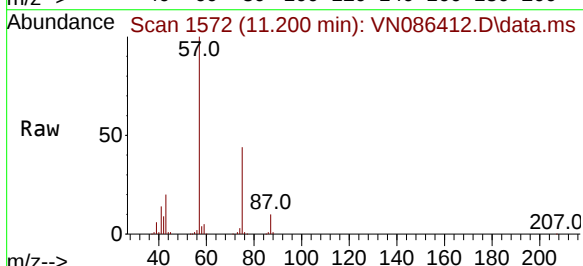
Acq: 28 Apr 2025 15:33

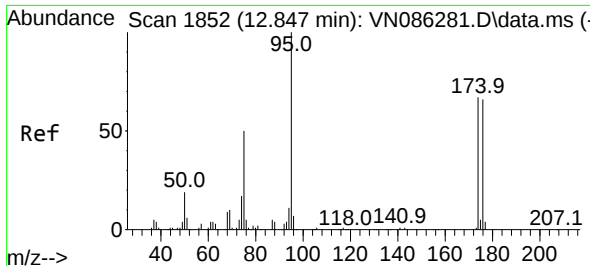
Tgt Ion: 43 Resp: 60613

Ion Ratio Lower Upper

43 100

58 14.6 28.3 85.0#

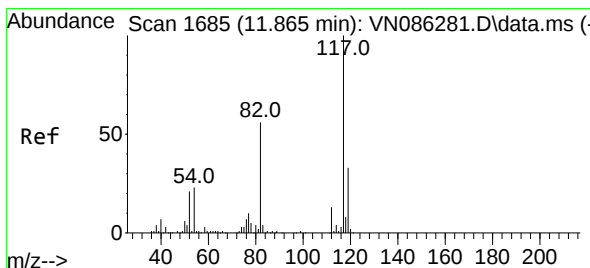
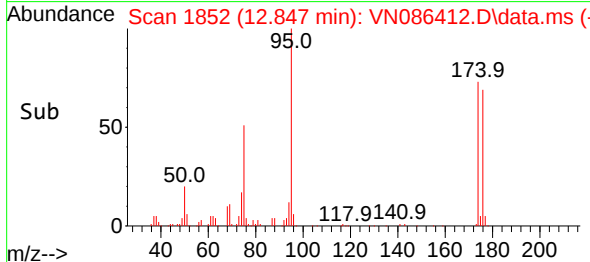
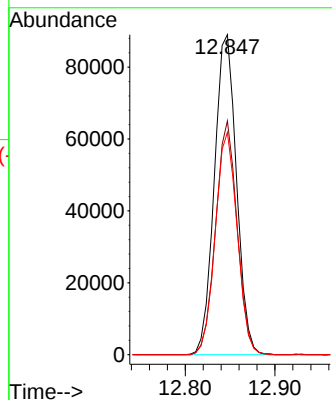
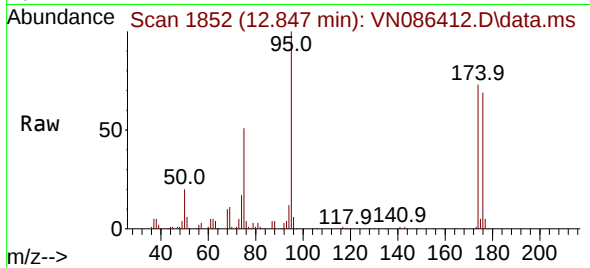




#62
4-Bromofluorobenzene
Concen: 52.480 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

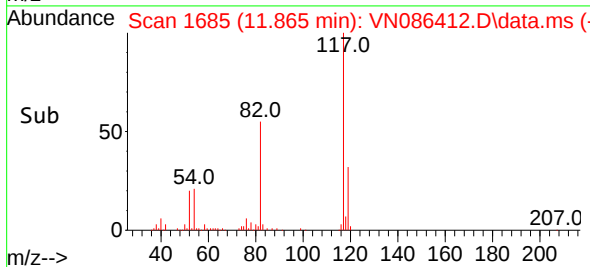
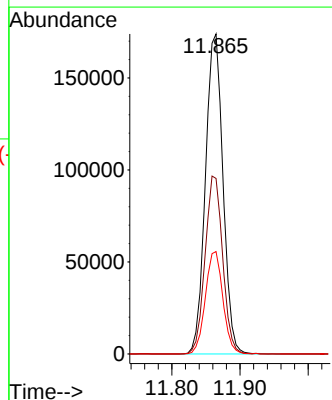
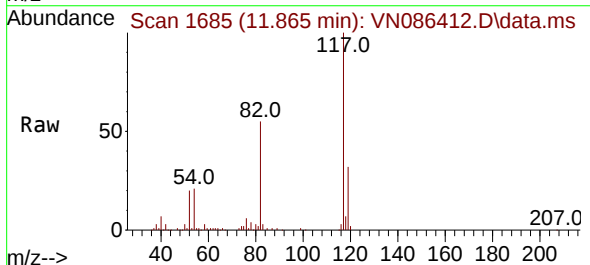
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

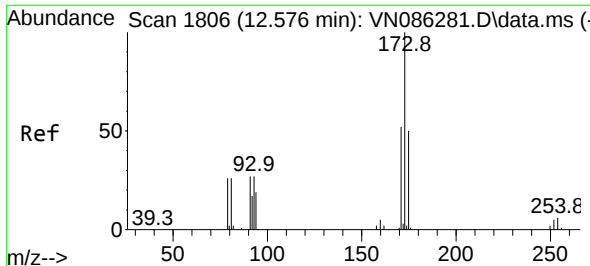
Tgt Ion: 95 Resp: 152316
Ion Ratio Lower Upper
95 100
174 71.0 0.0 133.4
176 68.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 117 Resp: 311531
Ion Ratio Lower Upper
117 100
82 54.9 44.7 67.1
119 32.0 26.4 39.6

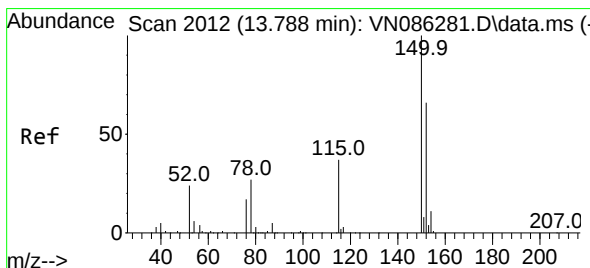
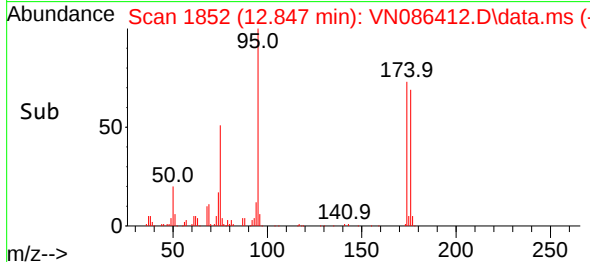
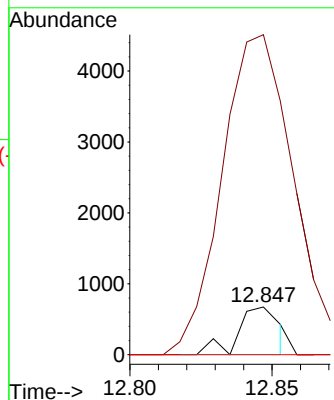
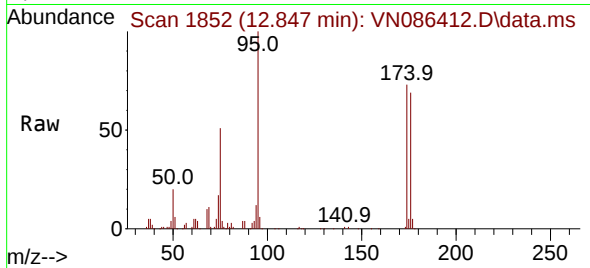




#71
Bromoform
Concen: 0.396 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

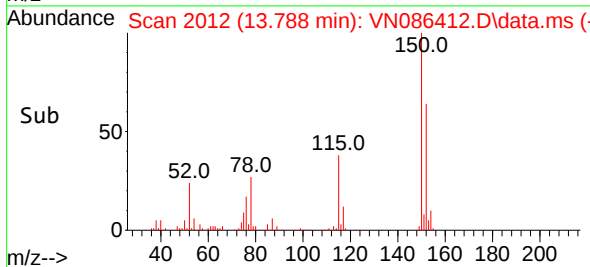
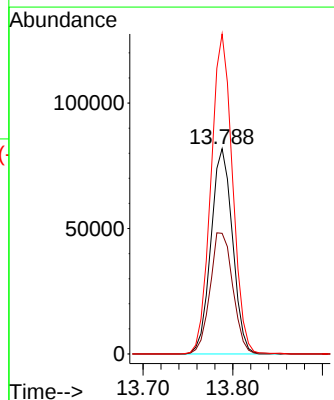
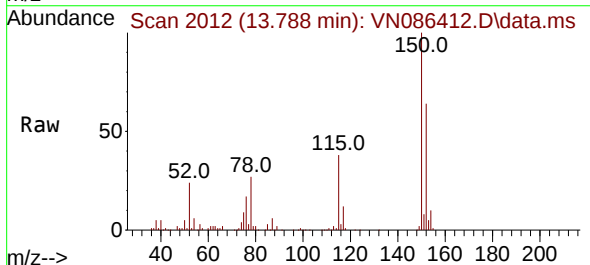
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

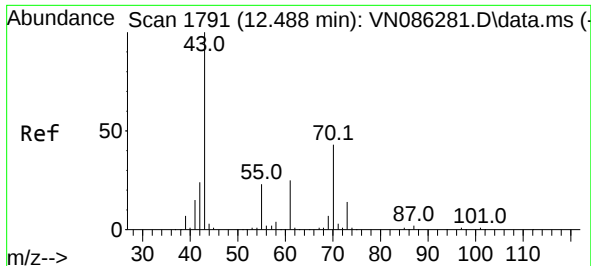
Tgt Ion:173 Resp: 684
Ion Ratio Lower Upper
173 100
175 950.4 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion:152 Resp: 136625
Ion Ratio Lower Upper
152 100
115 62.1 31.9 95.9
150 155.7 0.0 352.0

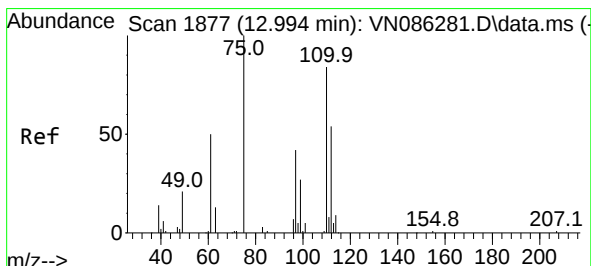
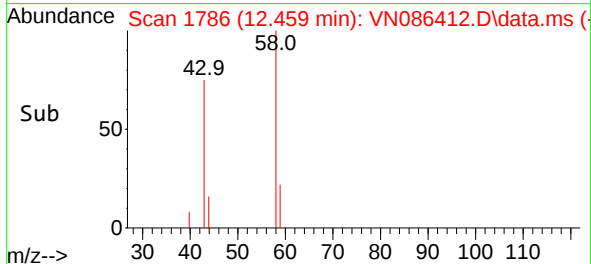
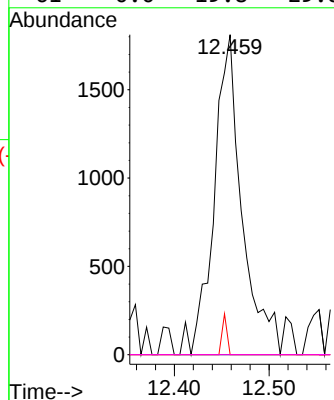
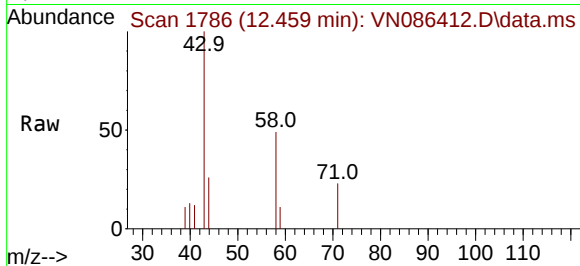




#74
N-amy1 acetate
Concen: 0.672 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

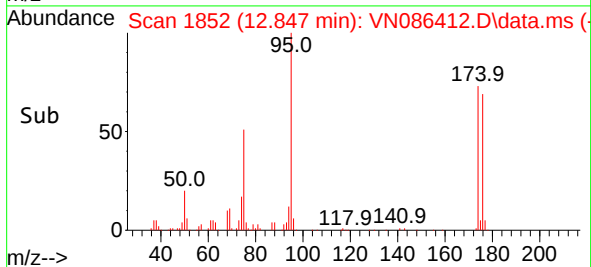
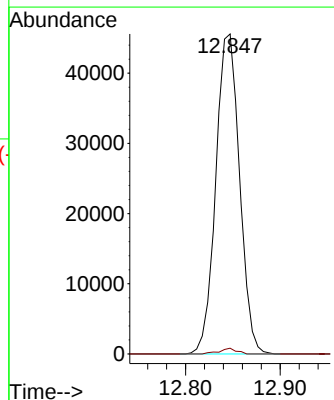
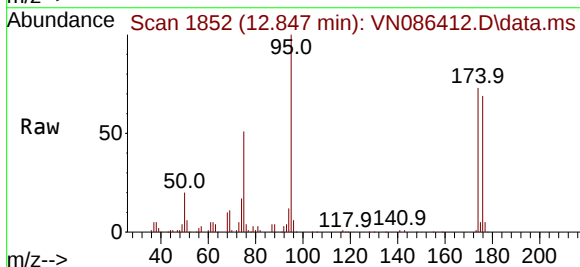
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

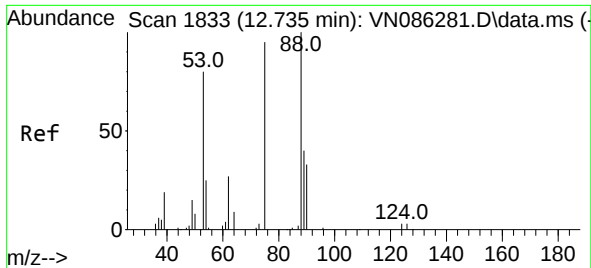
Tgt Ion: 43	Resp: 3738
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.2	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.640 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 75	Resp:	79443	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	

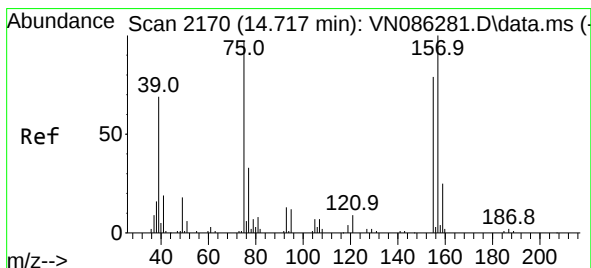
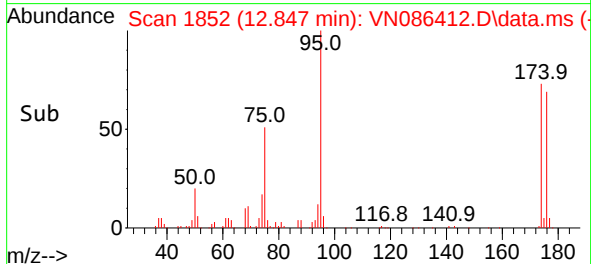
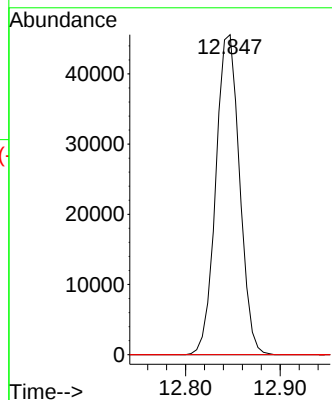
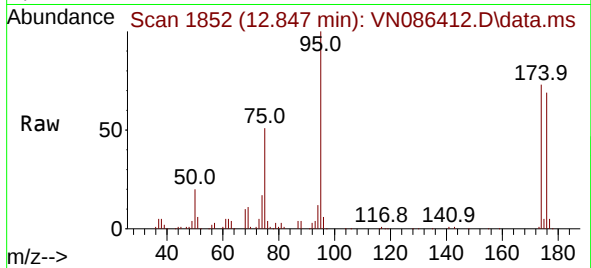




#81
trans-1,4-Dichloro-2-butene
Concen: 59.176 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#09

Tgt Ion: 75 Resp: 79443
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.205 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.018 min
Lab File: VN086412.D
Acq: 28 Apr 2025 15:33

Tgt Ion: 75 Resp: 133
Ion Ratio Lower Upper
75 100
155 0.0 40.3 120.9#
157 0.0 49.0 147.2#

