

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088110.D
 Acq On : 27 Oct 2025 13:52
 Operator : JC\MD
 Sample : PB170240TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB170240TB

Quant Time: Oct 28 01:26:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

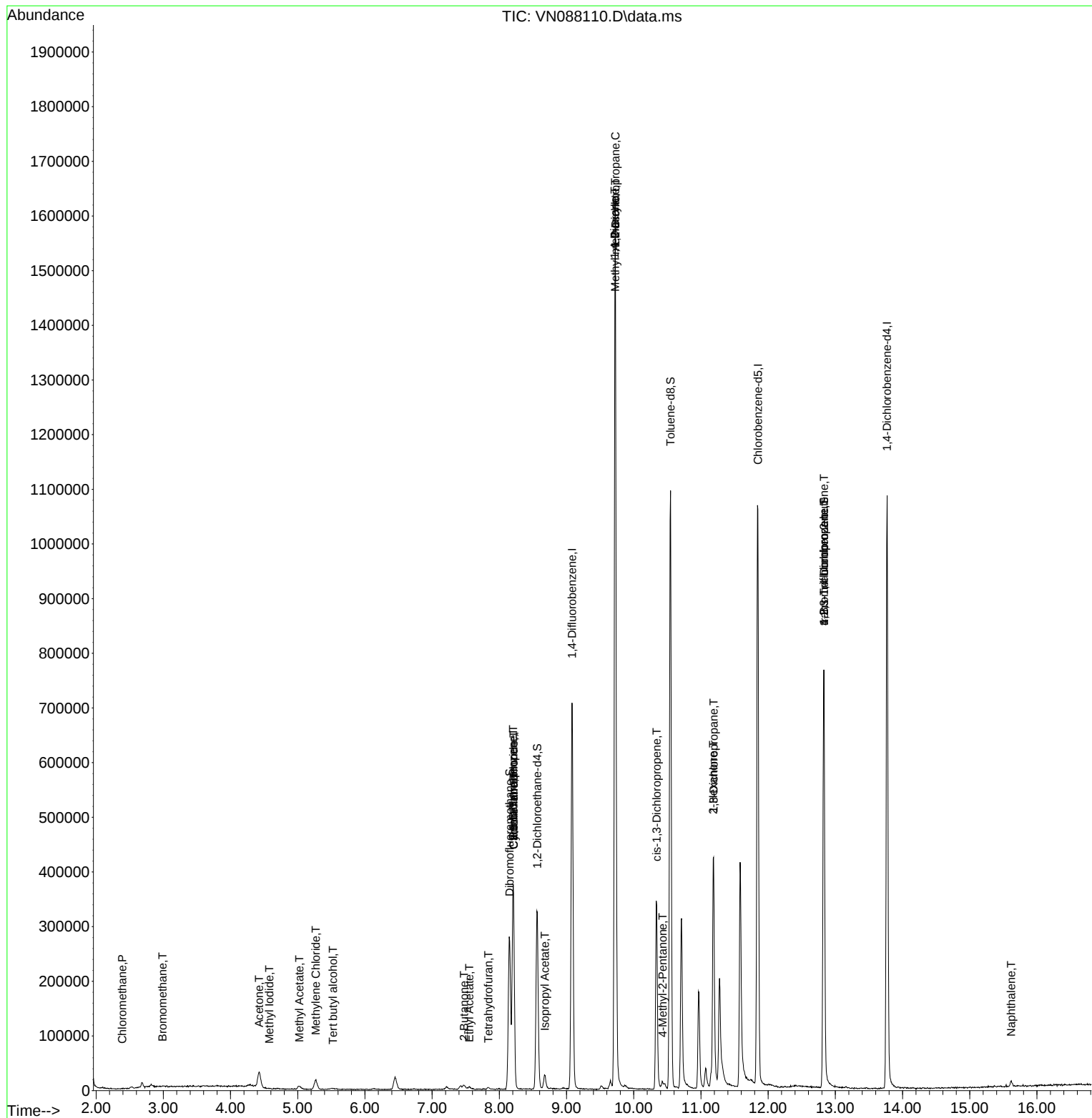
Internal Standards						
1) Pentafluorobenzene	8.206	168	251095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	576579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	577110	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	282700	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	274961	63.326	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 126.660%#	
35) Dibromofluoromethane	8.153	113	200932	51.874	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.740%	
50) Toluene-d8	10.547	98	720701	48.288	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.580%	
62) 4-Bromofluorobenzene	12.829	95	286523	54.358	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.720%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	976	0.293	ug/l #	42
5) Bromomethane	2.989	94	597	0.275	ug/l #	68
10) Methyl Iodide	4.577	142	75	4.234	ug/l #	38
11) Tert butyl alcohol	5.524	59	2522	3.372	ug/l #	77
16) Acetone	4.424	43	60585	27.774	ug/l	100
18) Methyl Acetate	5.024	43	13477	3.018	ug/l #	78
20) Methylene Chloride	5.271	84	12539	4.409	ug/l	92
25) 2-Butanone	7.477	43	13243	4.607	ug/l	95
29) Tetrahydrofuran	7.836	42	2472	1.319	ug/l #	76
31) Cyclohexane	8.212	56	8253	1.358	ug/l #	22
36) 1,1-Dichloropropene	8.206	75	24486	4.329	ug/l #	52
37) Ethyl Acetate	7.553	43	7104	0.973	ug/l #	83
38) Carbon Tetrachloride	8.212	117	28843	4.938	ug/l #	15
43) Isopropyl Acetate	8.677	43	31968	2.850	ug/l	93
45) 1,2-Dichloropropane	9.730	63	1605	0.369	ug/l #	43
48) Methyl methacrylate	9.724	41	157930	30.501	ug/l #	47
49) 1,4-Dioxane	9.718	88	150	2.329	ug/l #	1
51) 4-Methyl-2-Pentanone	10.430	43	4713	0.710	ug/l #	38
54) cis-1,3-Dichloropropene	10.341	75	60865	8.679	ug/l #	64
57) 1,3-Dichloropropane	11.188	76	4753	0.671	ug/l #	42
59) 2-Hexanone	11.182	43	89828	20.409	ug/l #	50
76) 1,2,3-Trichloropropane	12.829	75	163196	25.249	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	163196	70.434	ug/l #	1
95) Naphthalene	15.617	128	9623	0.513	ug/l	97

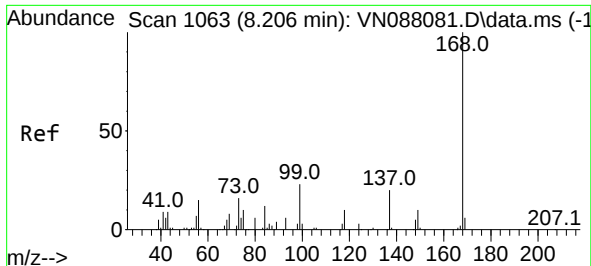
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

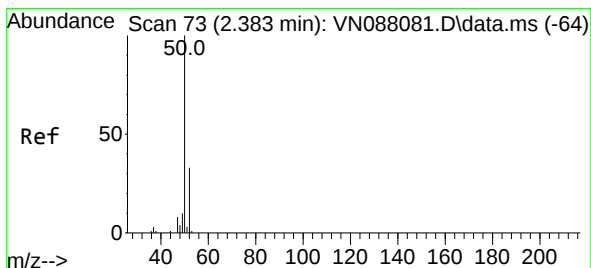
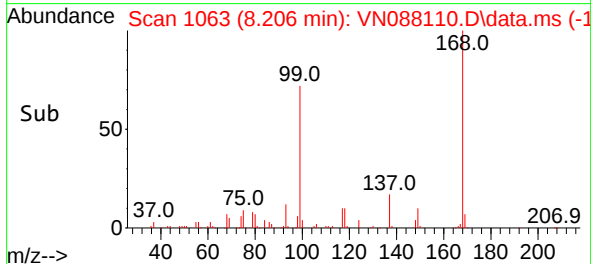
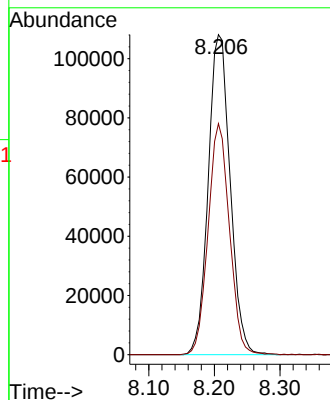
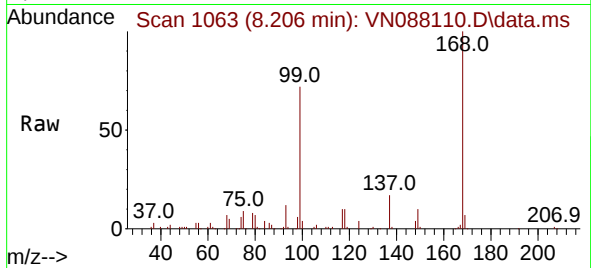




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

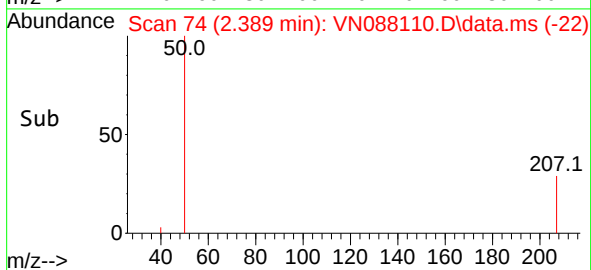
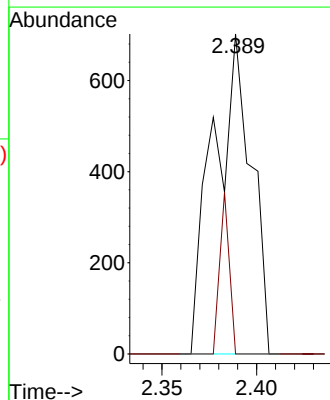
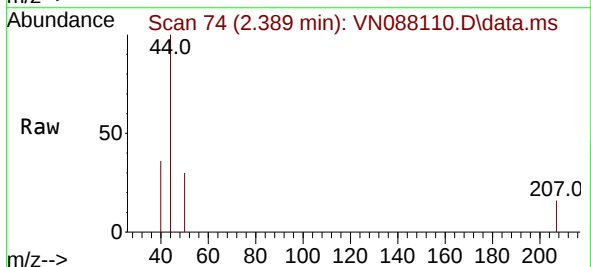
Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

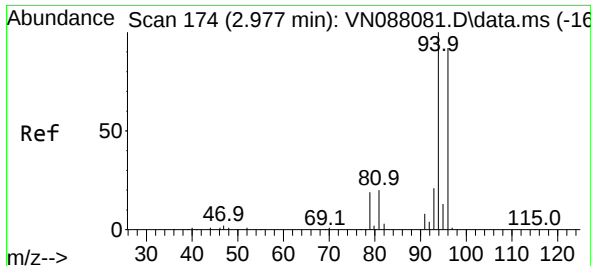
Tgt Ion:168 Resp: 251095
Ion Ratio Lower Upper
168 100
99 72.2 57.2 85.8



#3
Chloromethane
Concen: 0.293 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 50 Resp: 976
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

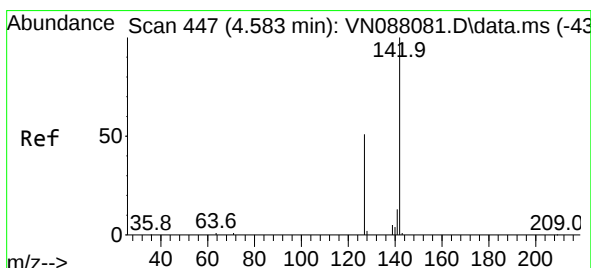
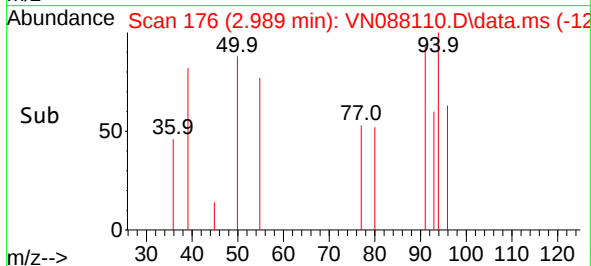
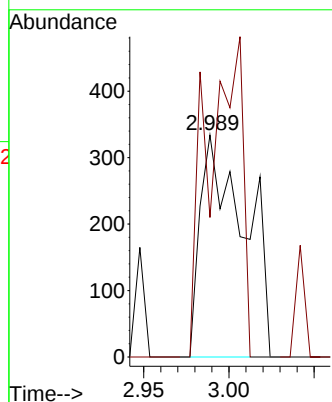
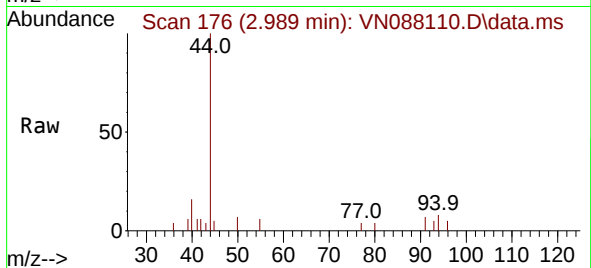




#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

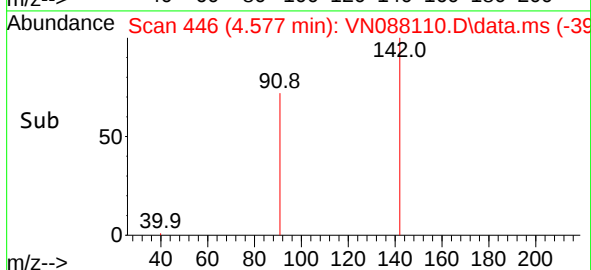
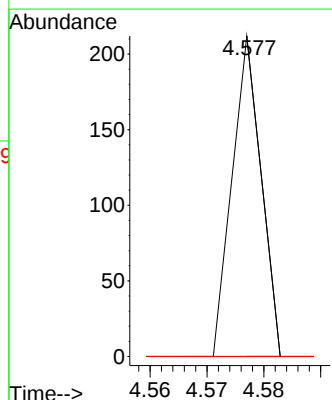
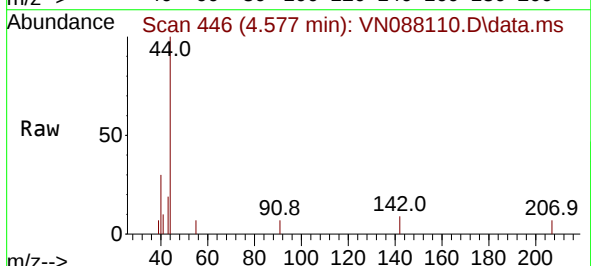
Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

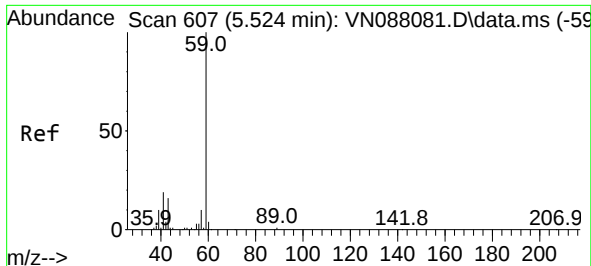
Tgt Ion: 94 Resp: 597
Ion Ratio Lower Upper
94 100
96 62.9 75.4 113.2#



#10
Methyl Iodide
Concen: 4.234 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion:142 Resp: 75
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

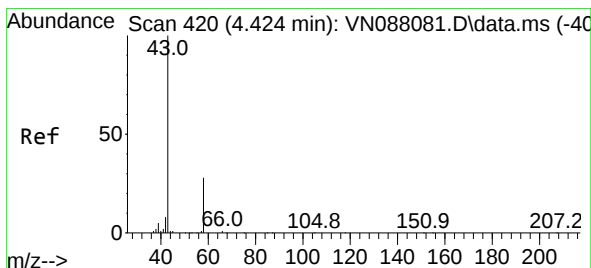
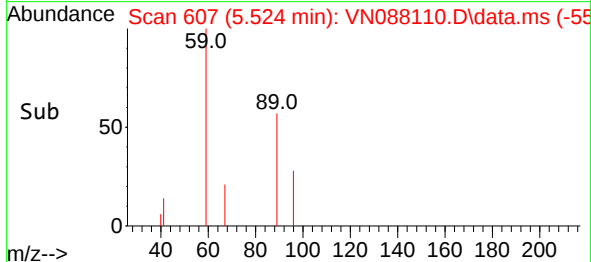
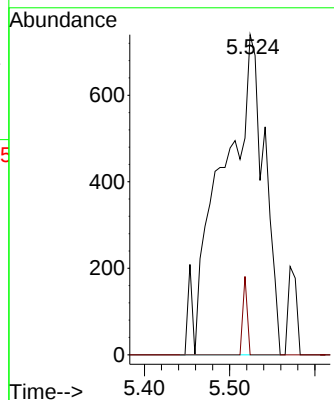
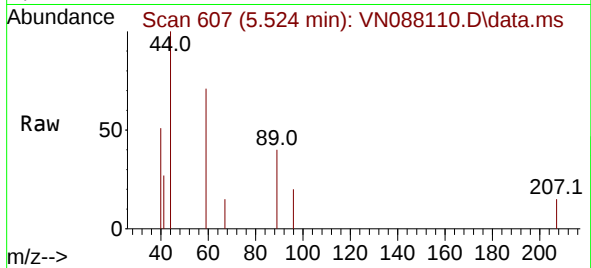




#11
Tert butyl alcohol
Concen: 3.372 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

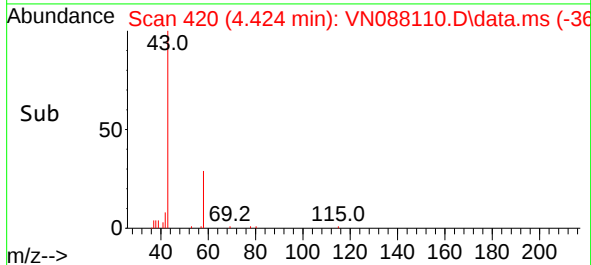
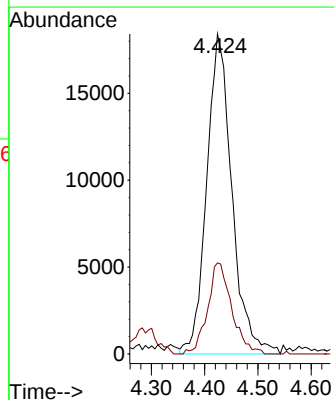
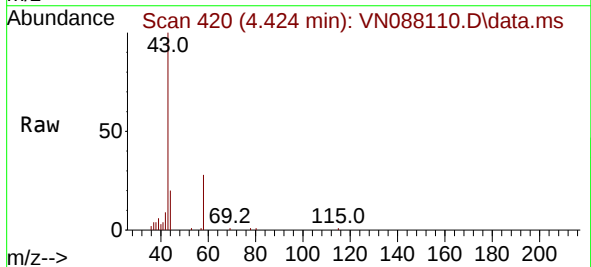
Instrument :
MSVOA_N
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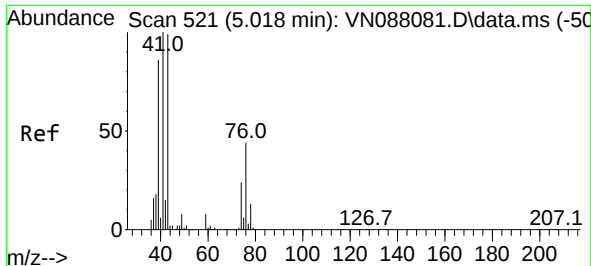
Tgt Ion: 59 Resp: 2522
Ion Ratio Lower Upper
59 100
57 2.5 9.0 13.4#



#16
Acetone
Concen: 27.774 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 43 Resp: 60585
Ion Ratio Lower Upper
43 100
58 28.5 22.6 33.8

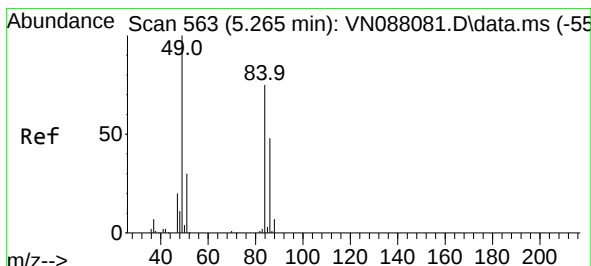
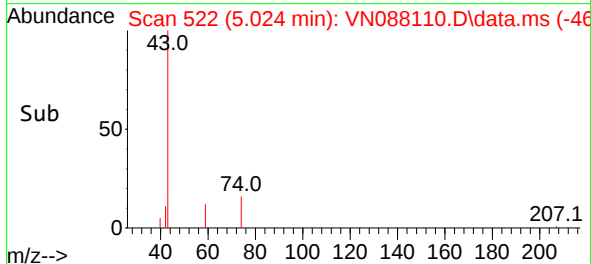
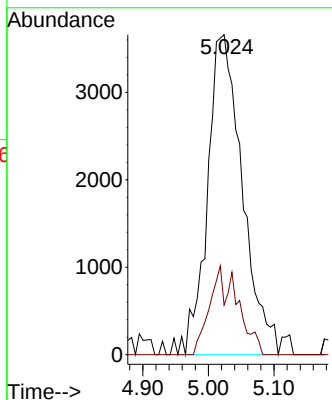
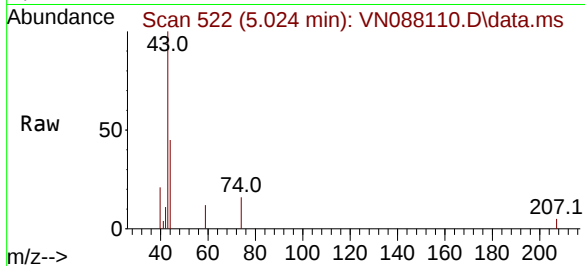




#18
Methyl Acetate
Concen: 3.018 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

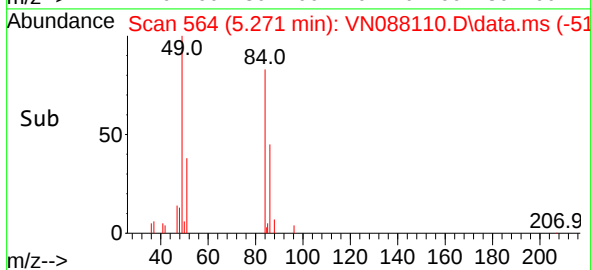
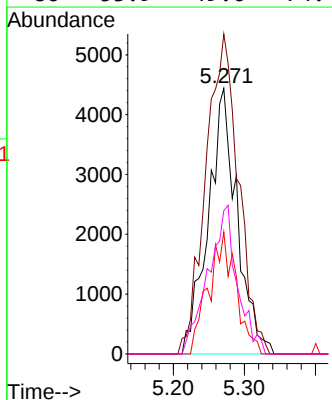
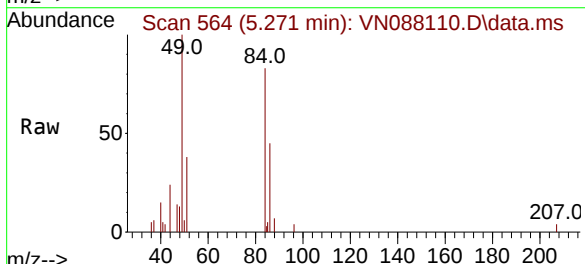
Instrument :
MSVOA_N
ClientSampleId :
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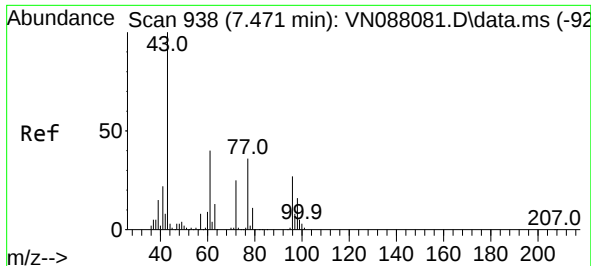
Tgt Ion: 43 Resp: 13477
Ion Ratio Lower Upper
43 100
74 11.6 17.6 26.4#



#20
Methylene Chloride
Concen: 4.409 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 84 Resp: 12539
Ion Ratio Lower Upper
84 100
49 120.5 103.4 155.2
51 45.9 33.8 50.8
86 53.9 49.6 74.4

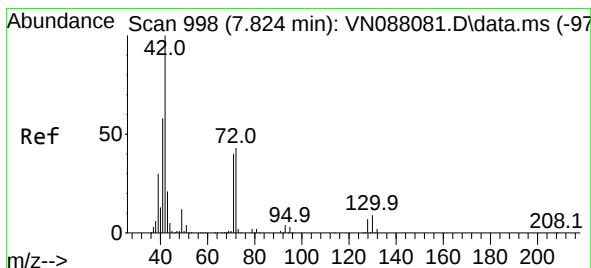
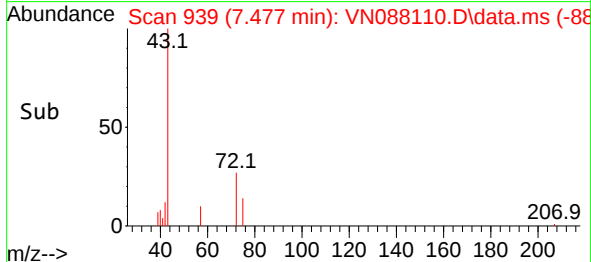
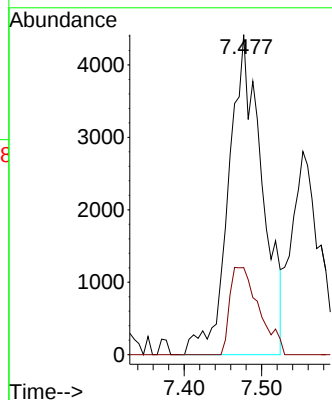
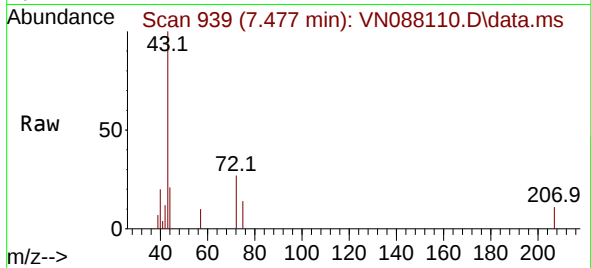




#25
2-Butanone
Concen: 4.607 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

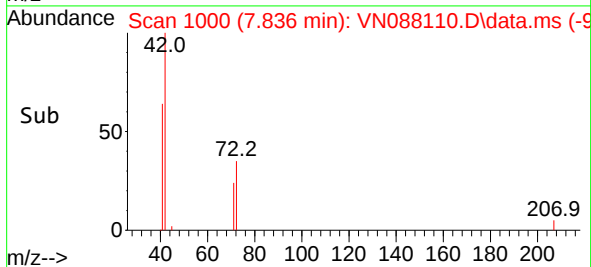
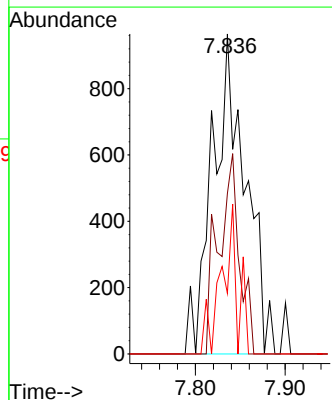
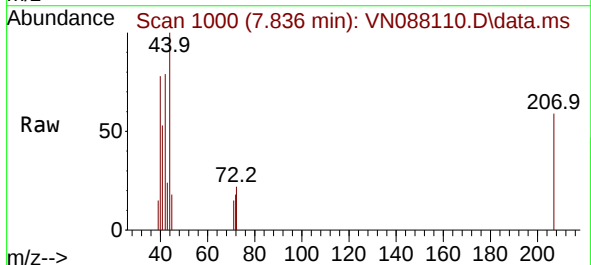
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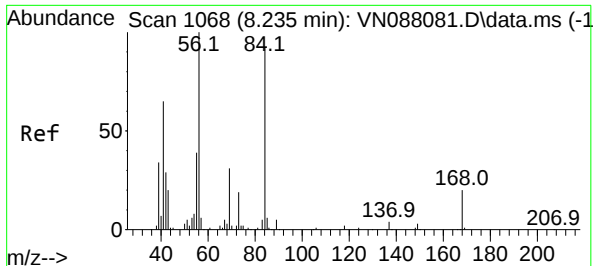
Tgt Ion: 43 Resp: 13243
Ion Ratio Lower Upper
43 100
72 27.2 19.9 29.9



#29
Tetrahydrofuran
Concen: 1.319 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 42 Resp: 2472
Ion Ratio Lower Upper
42 100
72 39.9 33.7 50.5
71 11.8 31.9 47.9#

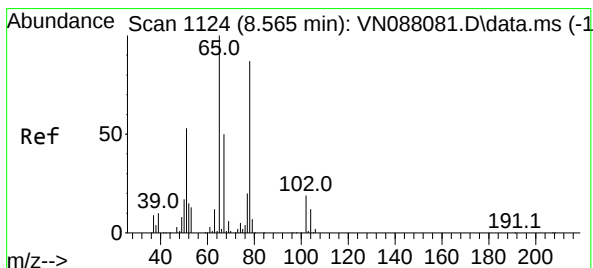
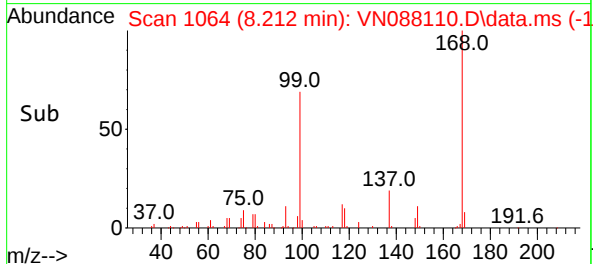
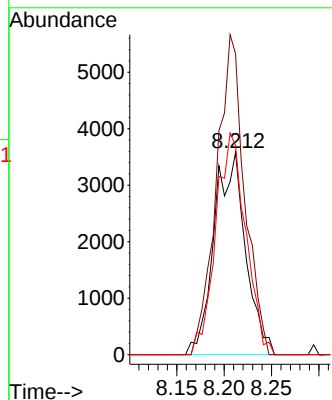
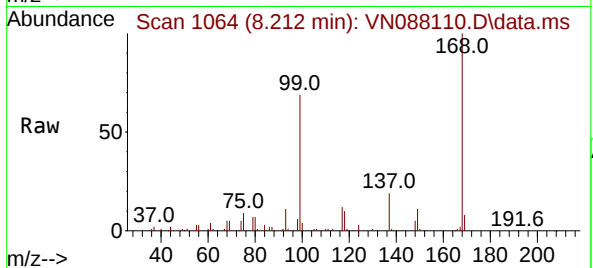




#31
Cyclohexane
Concen: 1.358 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

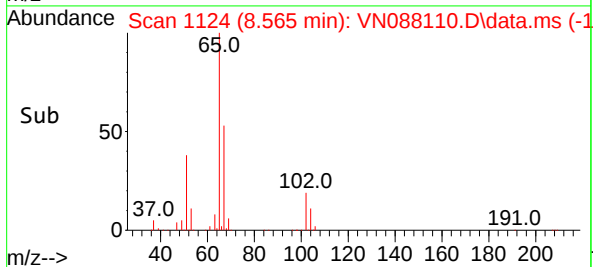
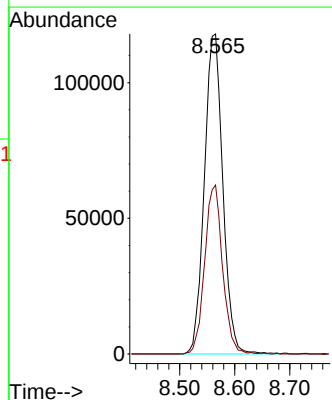
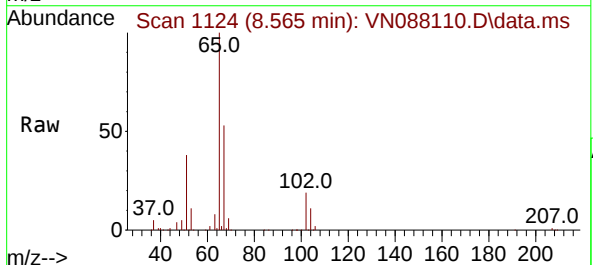
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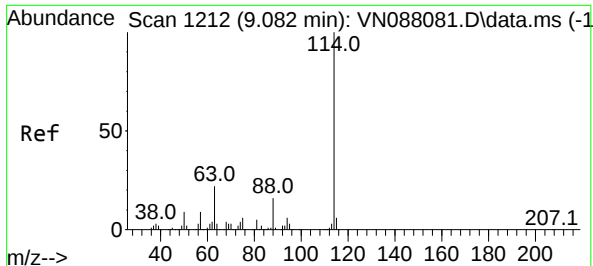
Tgt Ion: 56 Resp: 8253
Ion Ratio Lower Upper
56 100
69 148.8 23.7 35.5#
84 103.5 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 63.326 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 65 Resp: 274961
Ion Ratio Lower Upper
65 100
67 51.2 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

PB170240TB

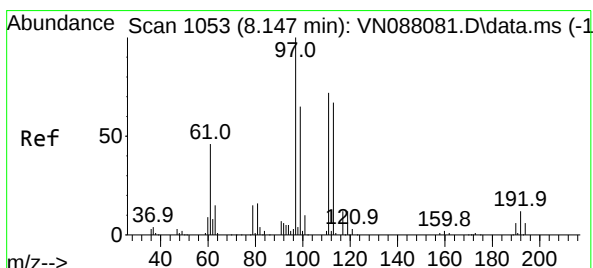
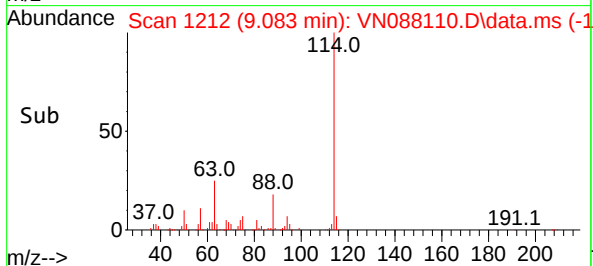
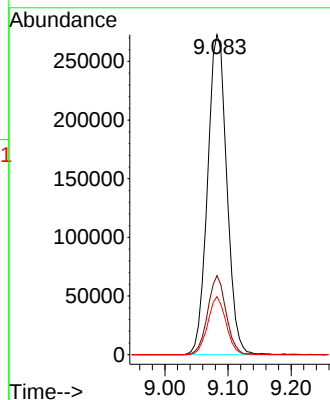
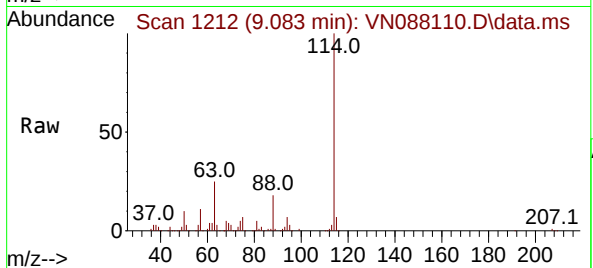
Tgt Ion:114 Resp: 576579

Ion Ratio Lower Upper

114 100

63 24.7 0.0 45.2

88 18.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.874 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

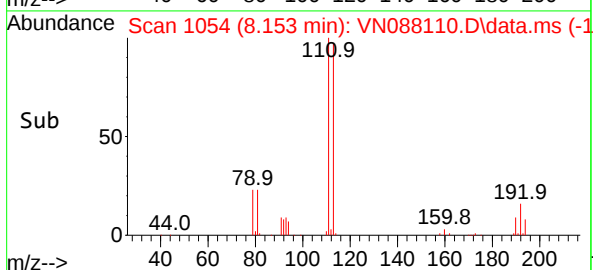
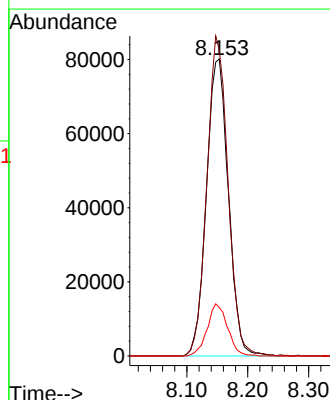
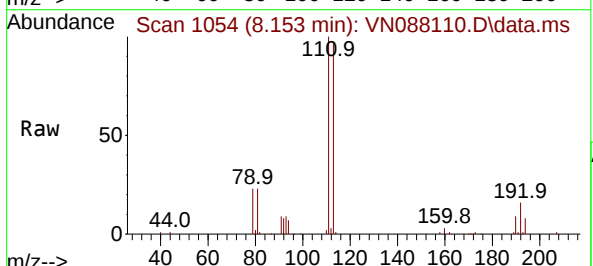
Tgt Ion:113 Resp: 200932

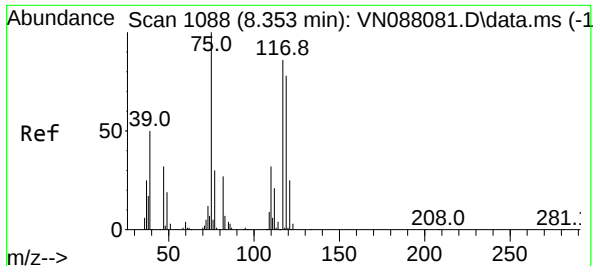
Ion Ratio Lower Upper

113 100

111 103.6 82.8 124.2

192 16.3 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.329 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

PB170240TB

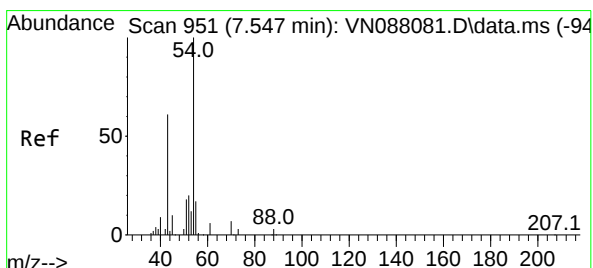
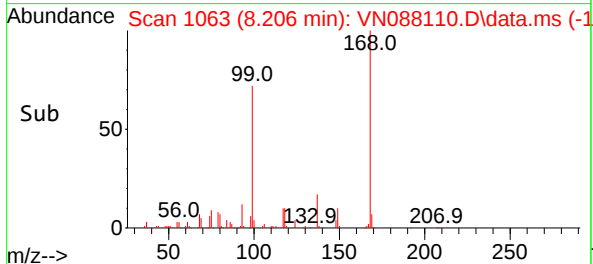
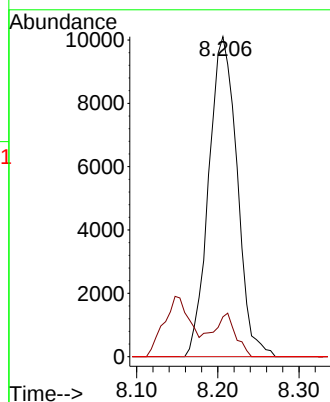
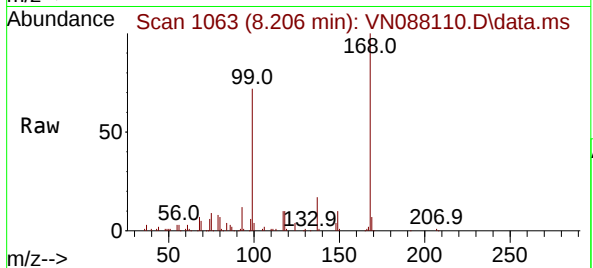
Tgt Ion: 75 Resp: 24486

Ion Ratio Lower Upper

75 100

110 9.3 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.973 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

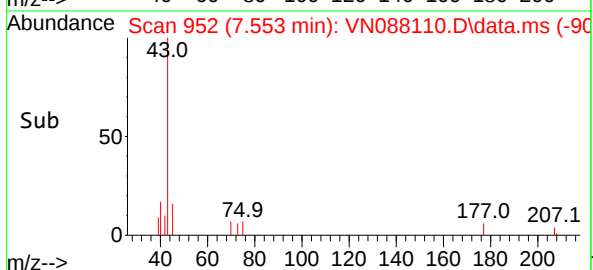
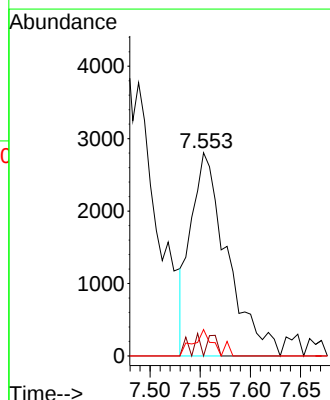
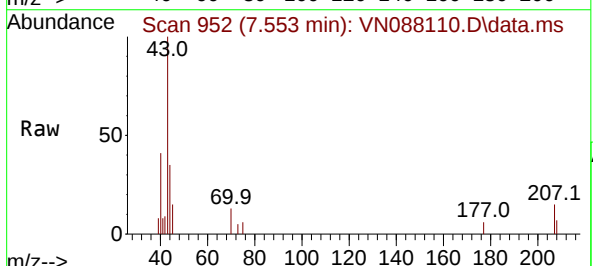
Tgt Ion: 43 Resp: 7104

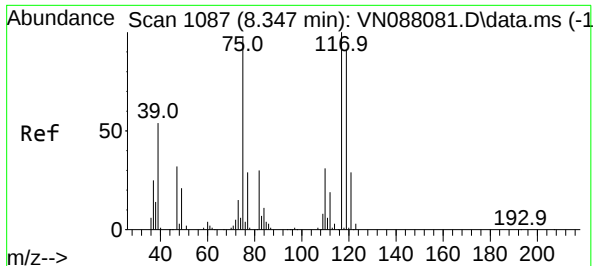
Ion Ratio Lower Upper

43 100

61 1.5 9.3 13.9#

70 7.3 7.0 10.6

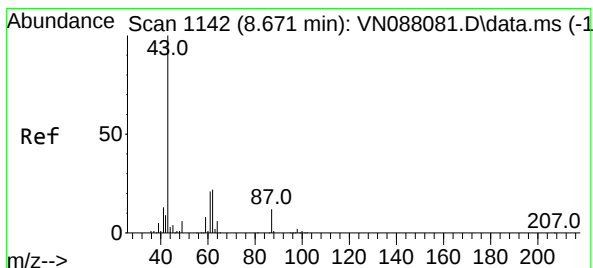
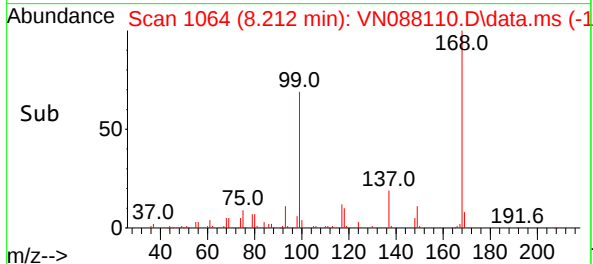
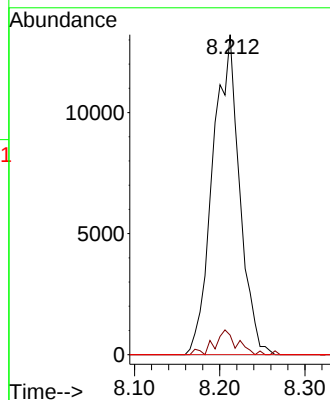
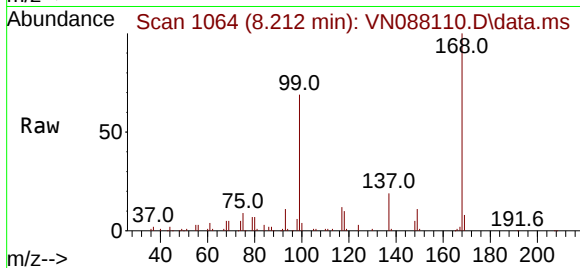




#38
Carbon Tetrachloride
Concen: 4.938 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

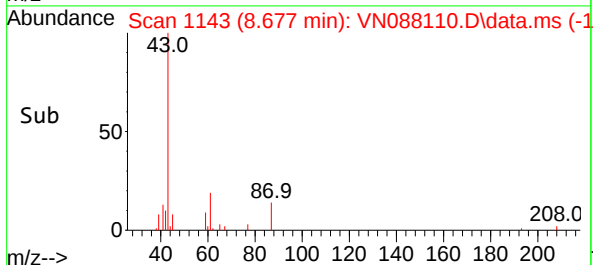
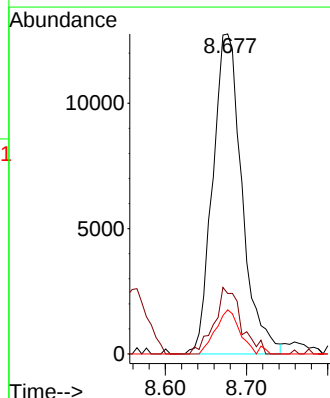
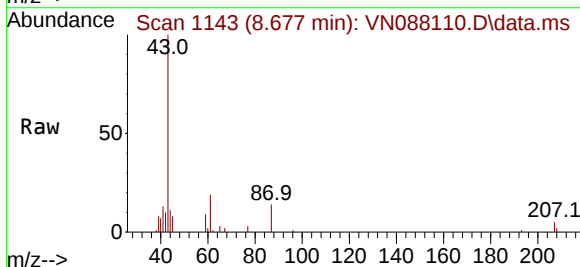
Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

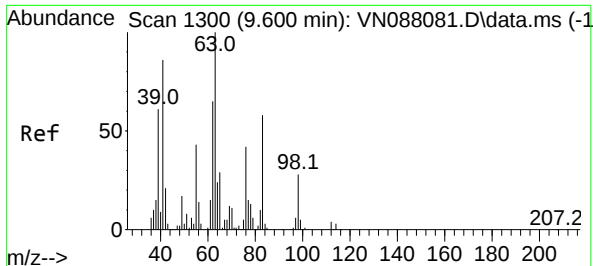
Tgt Ion:117 Resp: 28843
Ion Ratio Lower Upper
117 100
119 6.1 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.850 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 43 Resp: 31968
Ion Ratio Lower Upper
43 100
61 19.0 18.8 28.2
87 11.2 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.369 ug/l

RT: 9.730 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

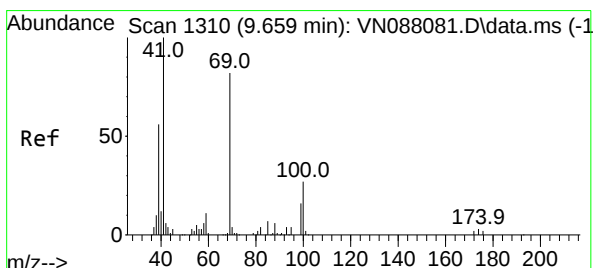
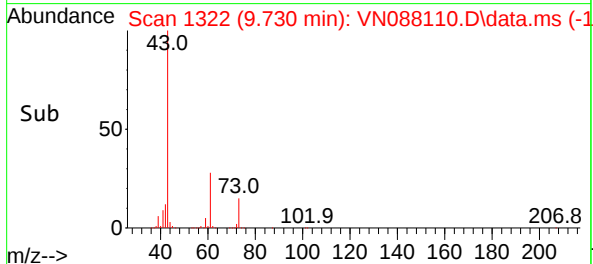
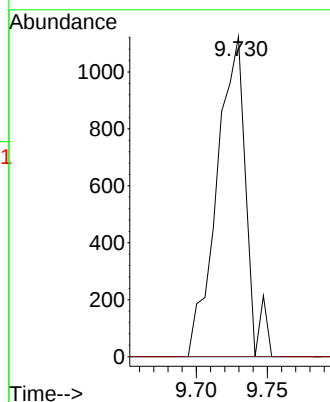
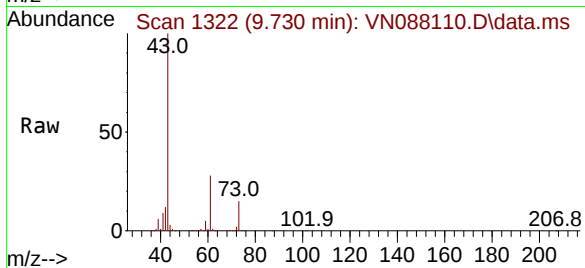
PB170240TB

Tgt Ion: 63 Resp: 1605

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 30.501 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

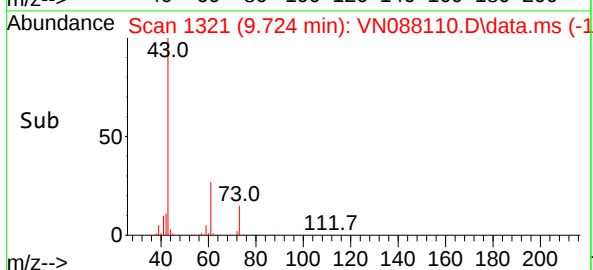
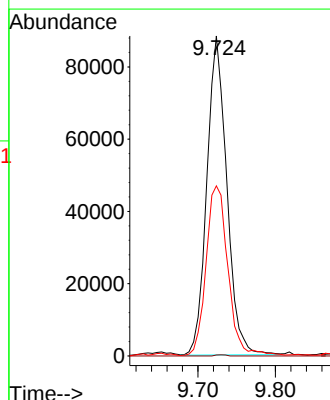
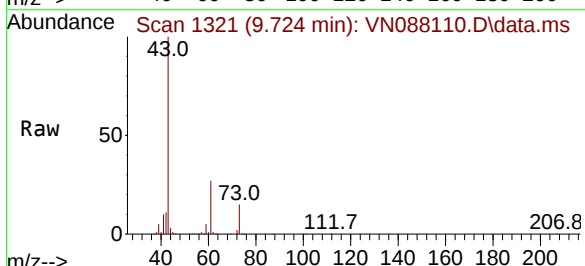
Tgt Ion: 41 Resp: 157930

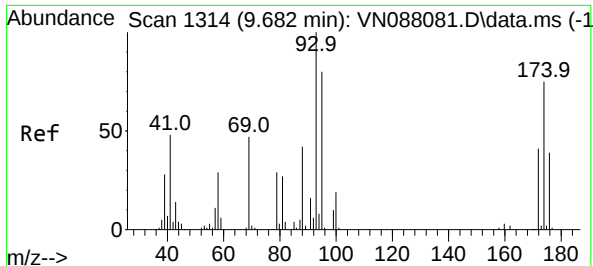
Ion Ratio Lower Upper

41 100

69 0.2 62.7 94.1#

39 58.0 52.9 79.3





#49

1,4-Dioxane

Concen: 2.329 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

PB170240TB

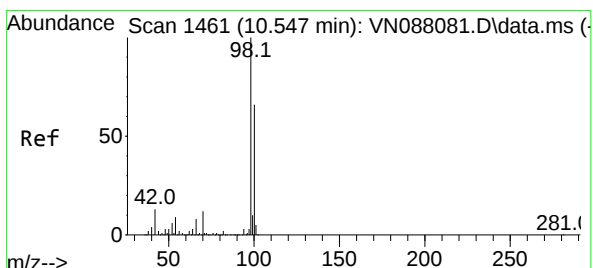
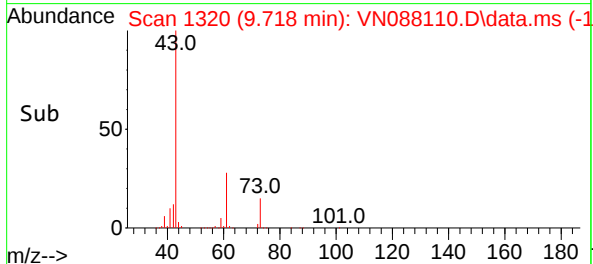
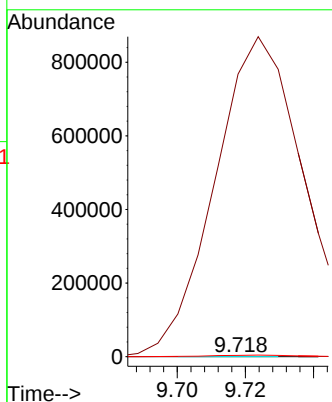
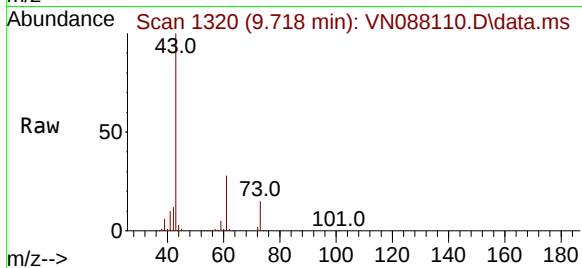
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 1091488.7 0.0 0.0#

58 5443.3 57.9 86.9#



#50

Toluene-d8

Concen: 48.288 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088110.D

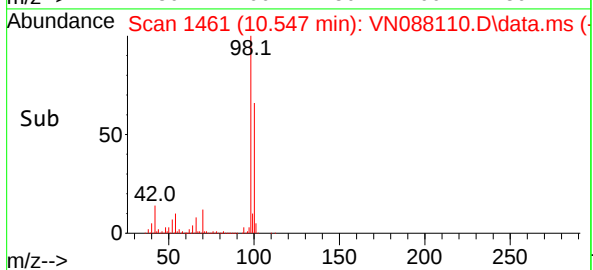
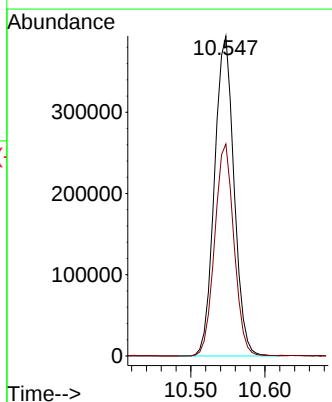
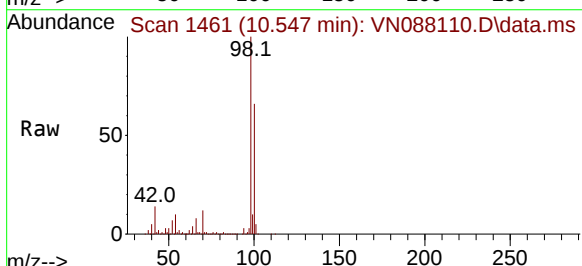
Acq: 27 Oct 2025 13:52

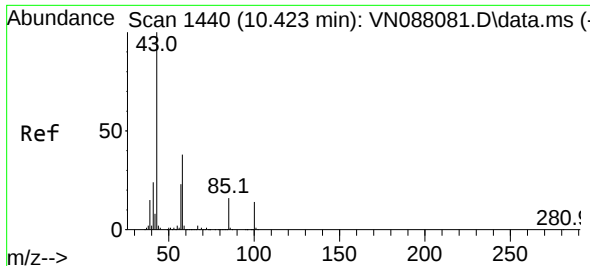
Tgt Ion: 98 Resp: 720701

Ion Ratio Lower Upper

98 100

100 65.6 52.8 79.2

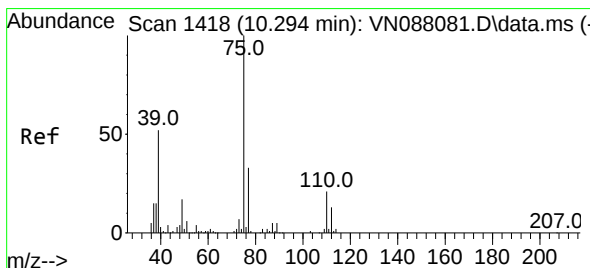
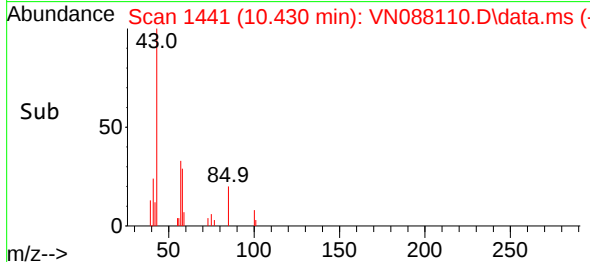
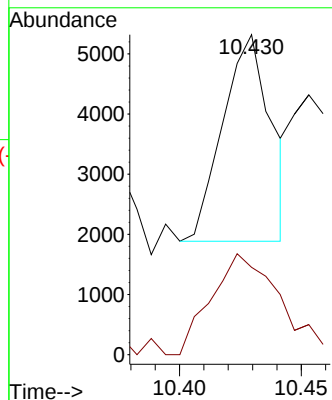
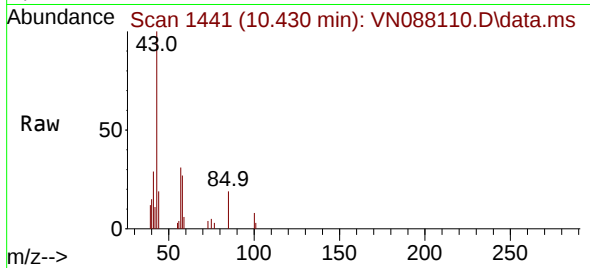




#51
4-Methyl-2-Pentanone
Concen: 0.710 ug/l
RT: 10.430 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

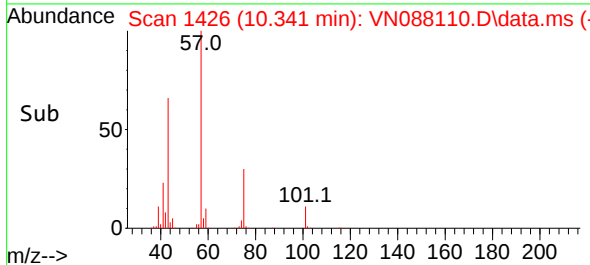
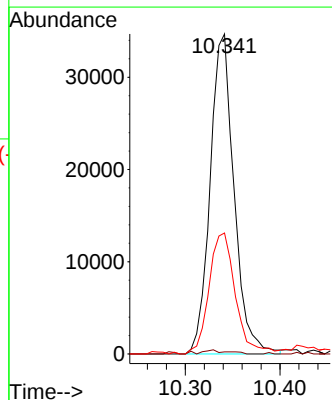
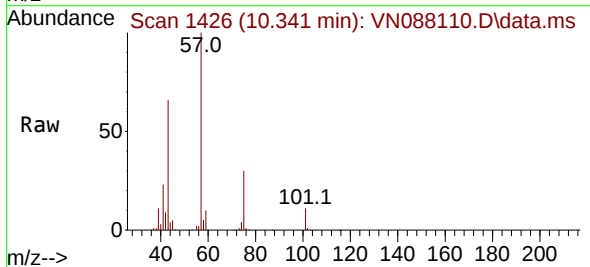
Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

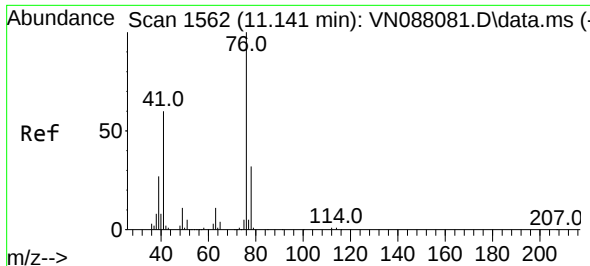
Tgt Ion: 43 Resp: 4713
Ion Ratio Lower Upper
43 100
58 73.9 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 8.679 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 75 Resp: 60865
Ion Ratio Lower Upper
75 100
77 0.6 24.6 37.0#
39 37.8 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.671 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088110.D

Acq: 27 Oct 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

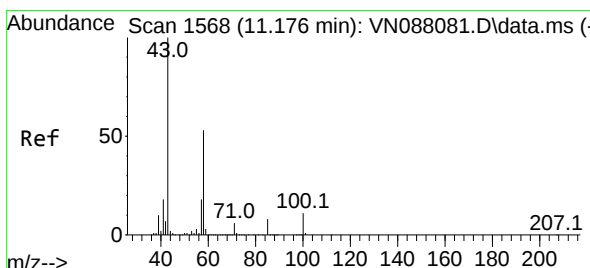
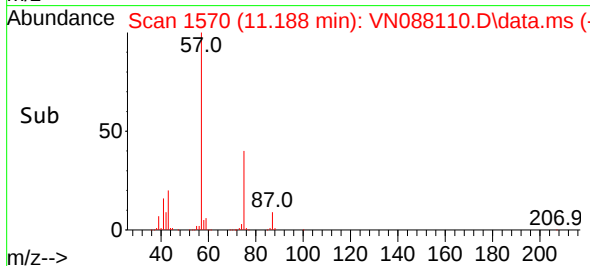
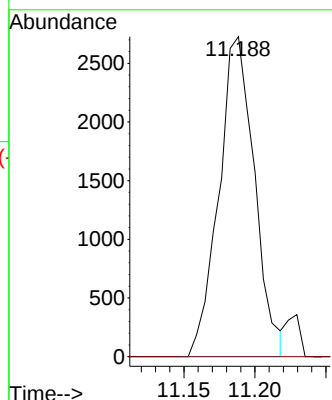
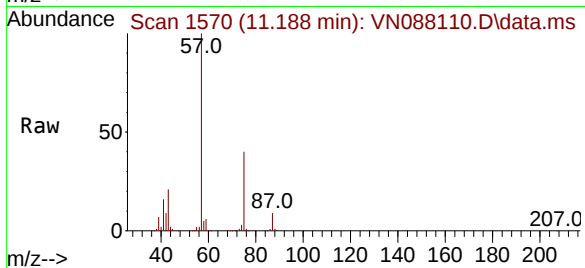
PB170240TB

Tgt Ion: 76 Resp: 4753

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 20.409 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088110.D

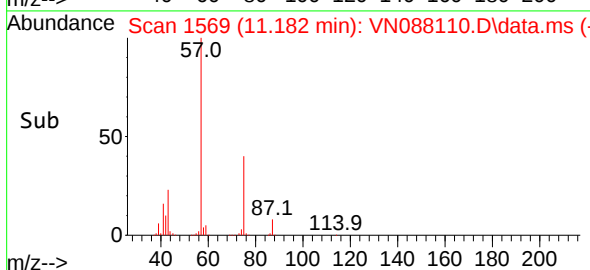
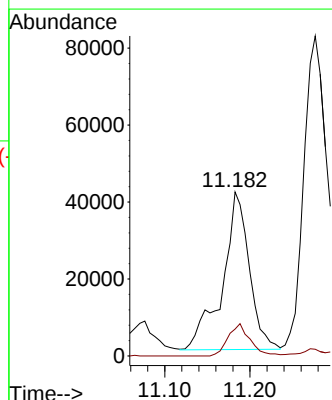
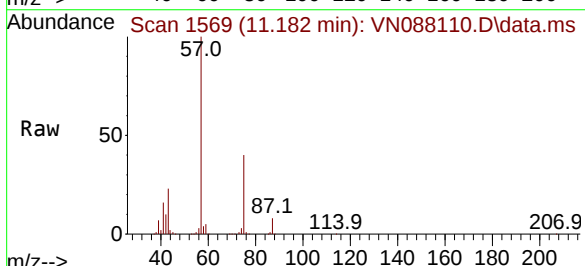
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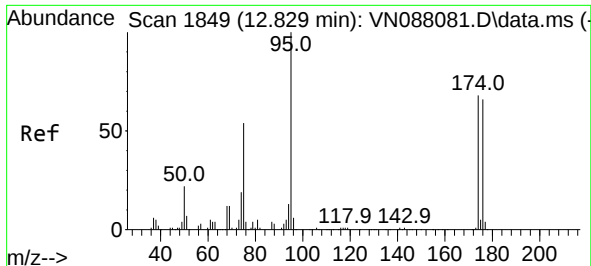
Tgt Ion: 43 Resp: 89828

Ion Ratio Lower Upper

43 100

58 16.8 25.9 77.8#

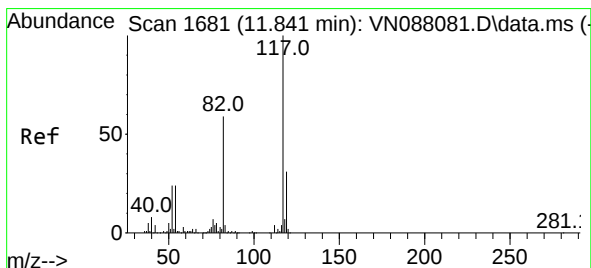
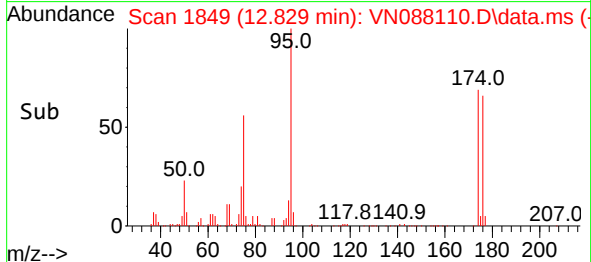
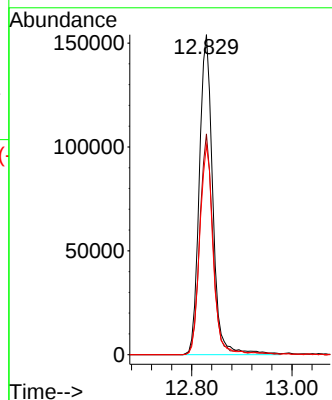
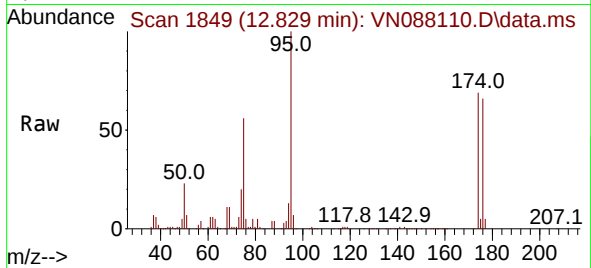




#62
4-Bromofluorobenzene
Concen: 54.358 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

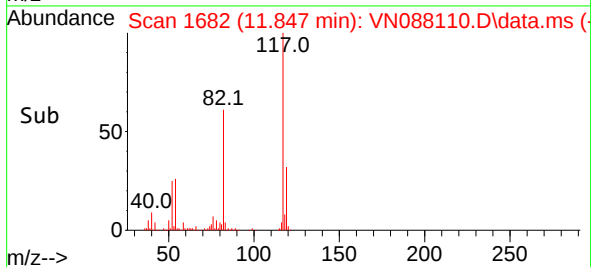
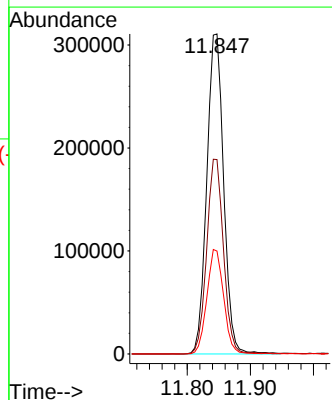
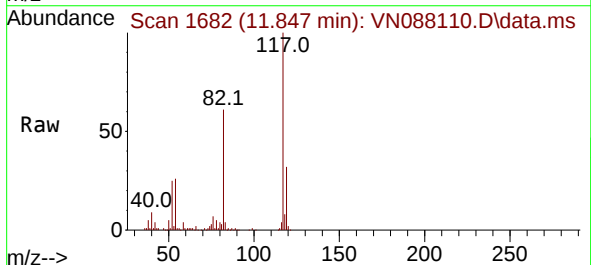
Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

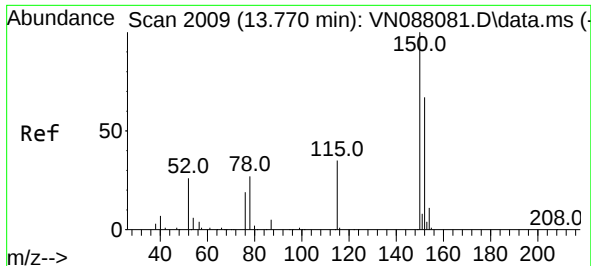
Tgt Ion: 95 Resp: 286523
Ion Ratio Lower Upper
95 100
174 67.4 0.0 138.4
176 66.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 117 Resp: 577110
Ion Ratio Lower Upper
117 100
82 60.8 47.4 71.2
119 32.2 24.3 36.5

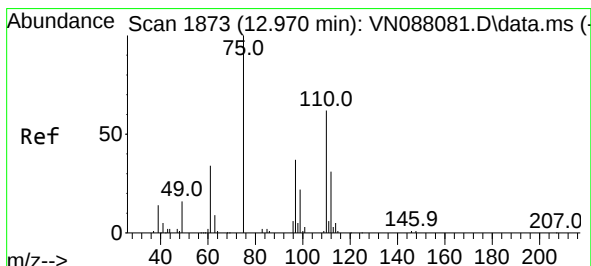
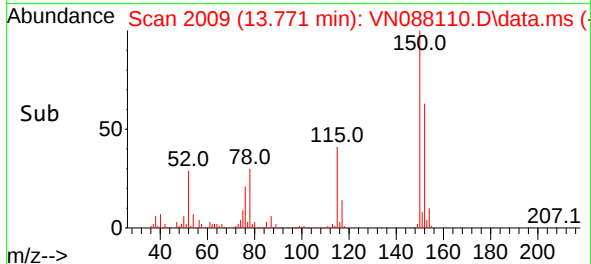
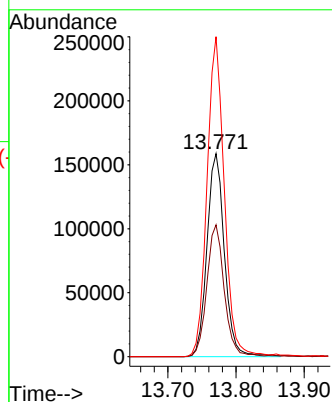
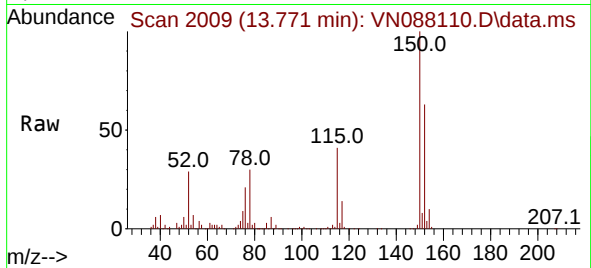




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN088110.D
 Acq: 27 Oct 2025 13:52

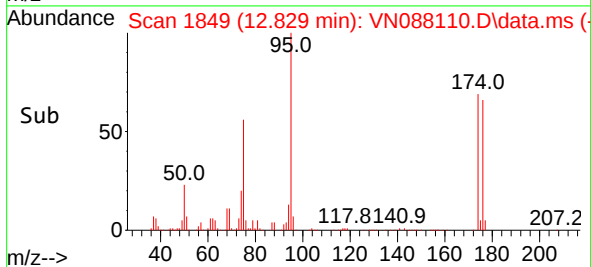
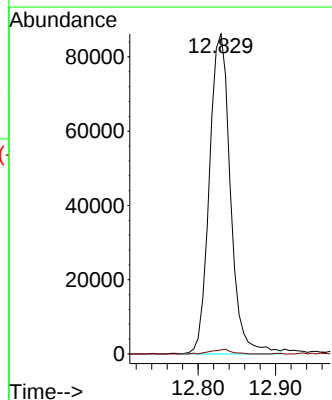
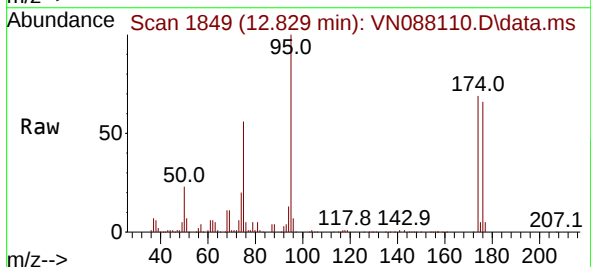
Instrument :
 MSVOA_N
 ClientSampleId :
 PB170240TB

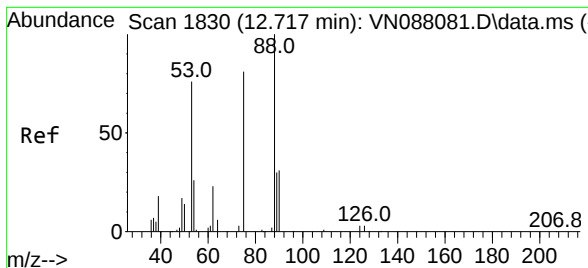
Tgt Ion:152 Resp: 282700
 Ion Ratio Lower Upper
 152 100
 115 64.9 32.3 96.8
 150 155.7 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.249 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088110.D
 Acq: 27 Oct 2025 13:52

Tgt Ion: 75 Resp: 163196
 Ion Ratio Lower Upper
 75 100
 77 1.4 89.1 267.4#

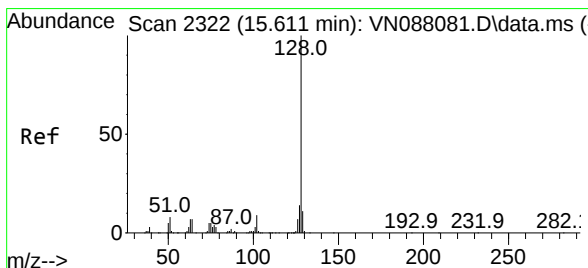
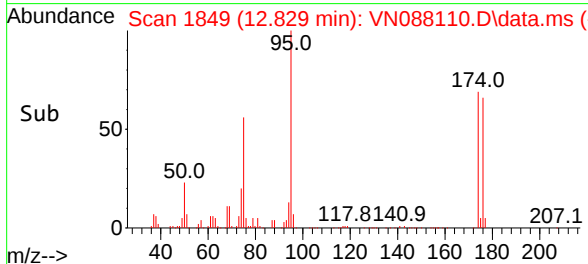
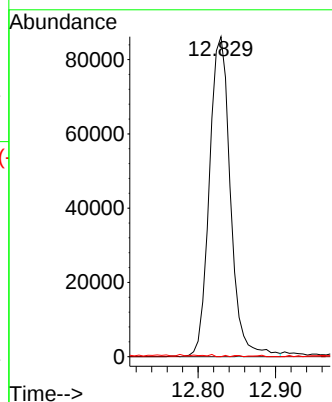
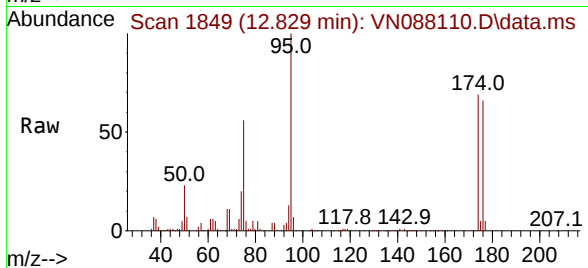




#81
trans-1,4-Dichloro-2-butene
Concen: 70.434 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Instrument :
MSVOA_N
ClientSampleId :
PB170240TB

Tgt Ion: 75 Resp: 163196
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#



#95
Naphthalene
Concen: 0.513 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088110.D
Acq: 27 Oct 2025 13:52

Tgt Ion: 128 Resp: 9623
Ion Ratio Lower Upper
128 100
127 11.6 10.6 15.8
129 9.7 8.6 12.8

