

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086108.D
 Acq On : 25 Mar 2025 18:16
 Operator : JC\MD
 Sample : Q1619-10RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Mar 26 03:23:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

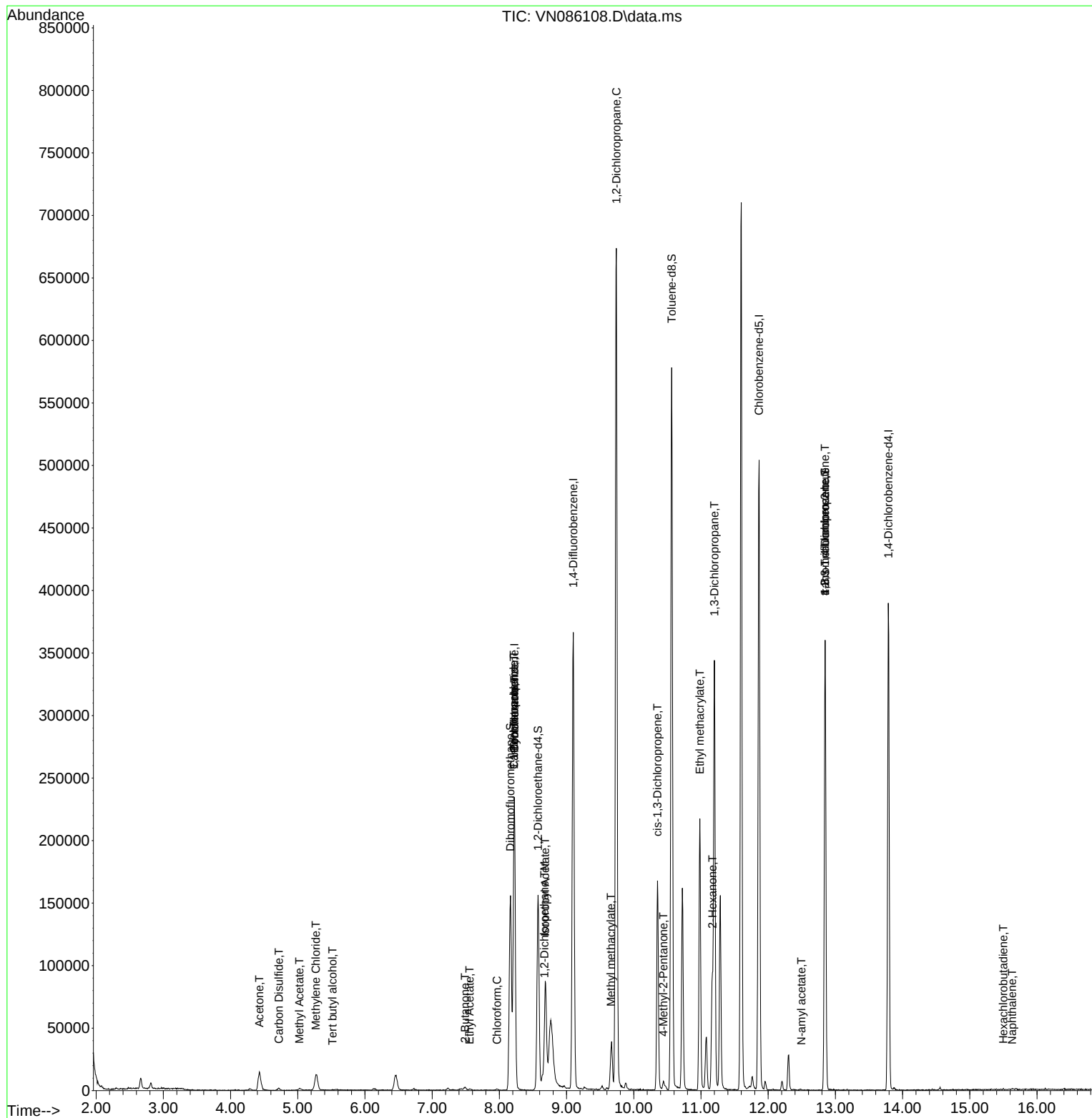
Internal Standards						
1) Pentafluorobenzene	8.224	168	168508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318906	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	302866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	109559	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	127963	55.457	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.920%			
35) Dibromofluoromethane	8.165	113	112378	50.486	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.980%			
50) Toluene-d8	10.565	98	412211	51.025	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.060%			
62) 4-Bromofluorobenzene	12.847	95	127289	44.181	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.360%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	95	0.291	ug/l #	73
16) Acetone	4.430	43	27243	38.645	ug/l	97
17) Carbon Disulfide	4.718	76	2770	0.488	ug/l #	74
18) Methyl Acetate	5.024	43	2782	1.595	ug/l #	50
20) Methylene Chloride	5.271	84	10702	5.189	ug/l	91
25) 2-Butanone	7.488	43	4013	3.945	ug/l	95
30) Chloroform	7.965	83	1015	0.272	ug/l	86
31) Cyclohexane	8.224	56	3125	1.087	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13183	4.498	ug/l #	49
37) Ethyl Acetate	7.559	43	1517	0.613	ug/l #	69
38) Carbon Tetrachloride	8.218	117	17916	4.649	ug/l #	18
42) 1,2-Dichloroethane	8.671	62	680	0.212	ug/l #	74
43) Isopropyl Acetate	8.682	43	100568	18.769	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	806	0.385	ug/l #	44
48) Methyl methacrylate	9.659	41	2474	1.399	ug/l #	28
51) 4-Methyl-2-Pentanone	10.441	43	3498	1.480	ug/l #	84
54) cis-1,3-Dichloropropene	10.353	75	31644	8.979	ug/l #	67
56) Ethyl methacrylate	10.982	69	1671	0.802	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3560	0.972	ug/l #	42
59) 2-Hexanone	11.170	43	69809	40.551	ug/l #	18
74) N-amyl acetate	12.494	43	622	0.248	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	62810	25.607	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	62810	67.701	ug/l #	16
94) Hexachlorobutadiene	15.500	225	243	0.223	ug/l #	19
95) Naphthalene	15.629	128	1148	0.211	ug/l #	69

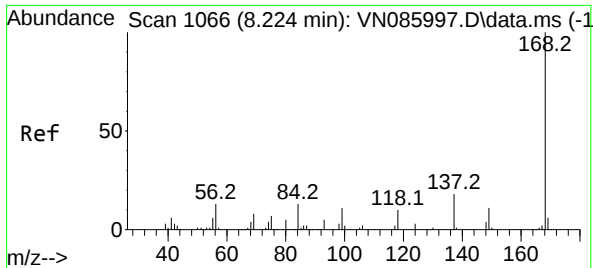
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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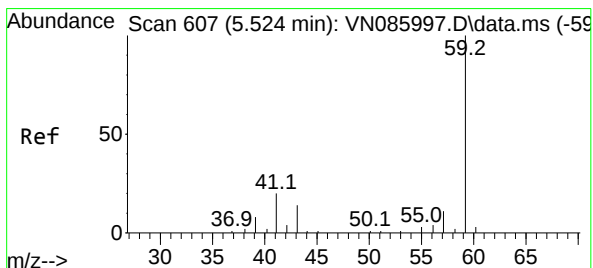
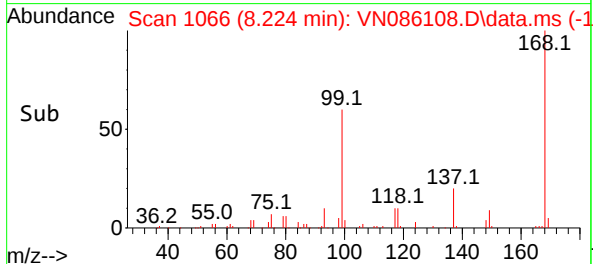
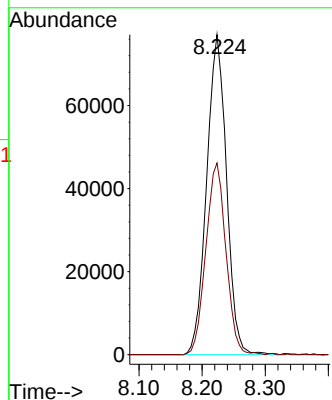
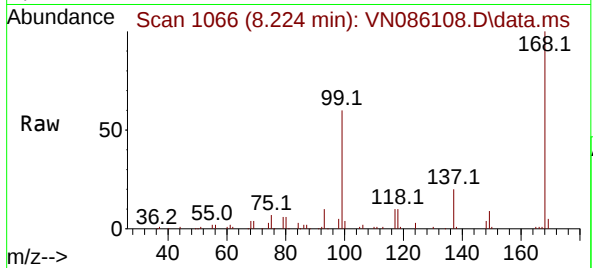




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

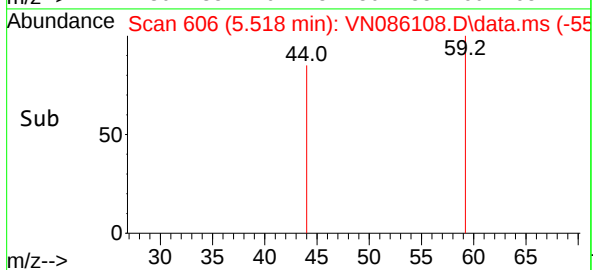
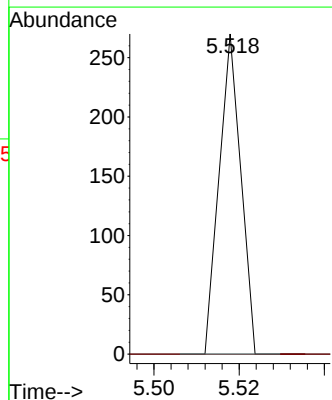
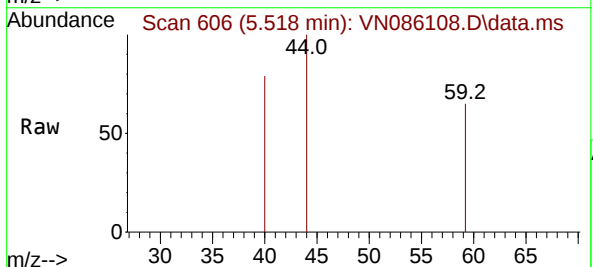
Instrument :
MSVOA_N
ClientSampleId :
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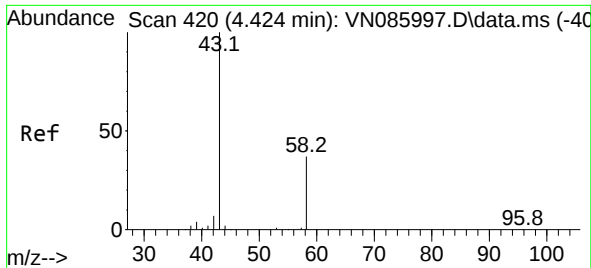
Tgt Ion:168 Resp: 168508
Ion Ratio Lower Upper
168 100
99 59.9 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.291 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 59 Resp: 95
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

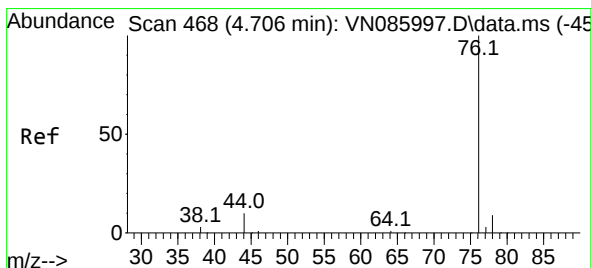
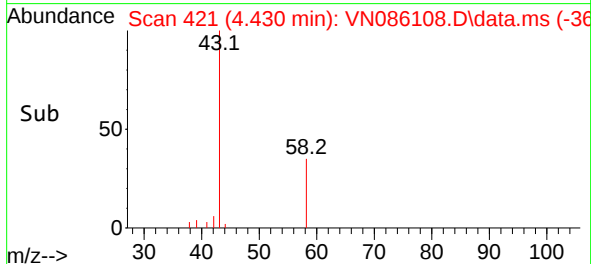
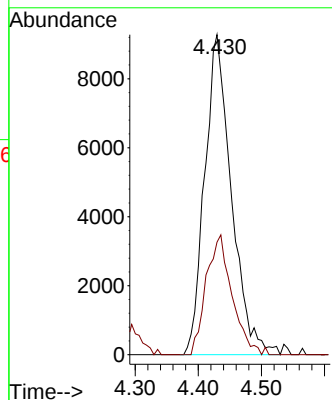
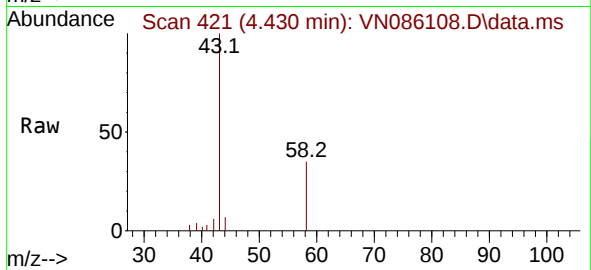




#16
Acetone
Concen: 38.645 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

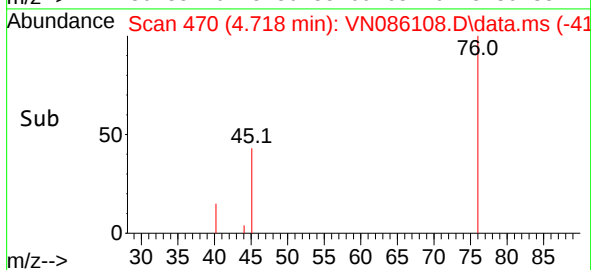
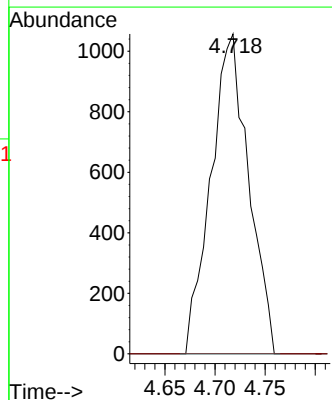
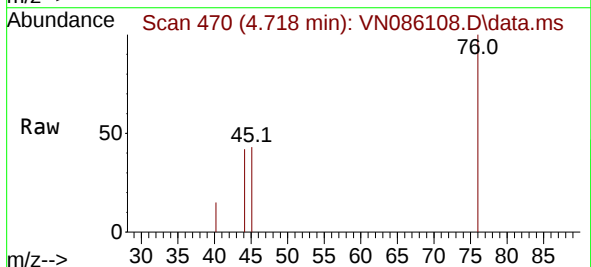
Instrument :
MSVOA_N
ClientSampleId :
TP-3

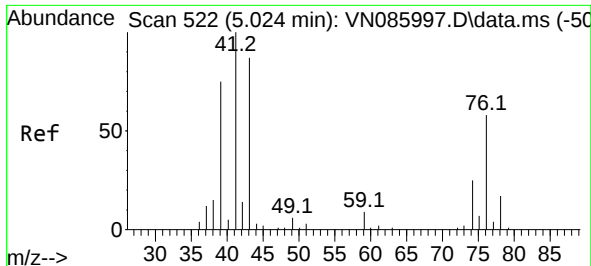
Tgt Ion: 43 Resp: 27243
Ion Ratio Lower Upper
43 100
58 35.1 29.4 44.2



#17
Carbon Disulfide
Concen: 0.488 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.011 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 76 Resp: 2770
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

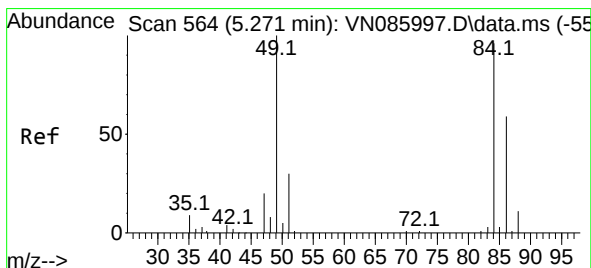
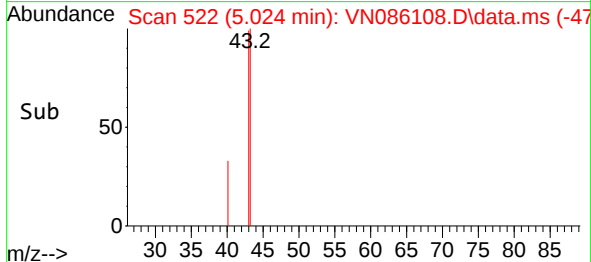
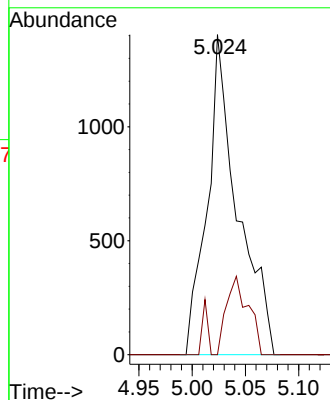
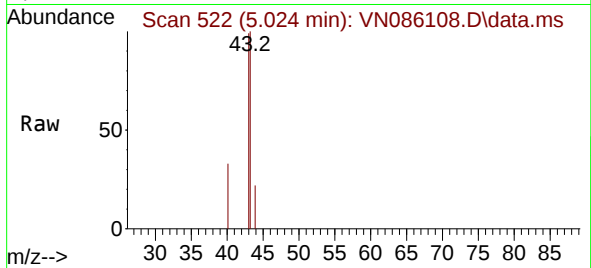




#18
Methyl Acetate
Concen: 1.595 ug/l
RT: 5.024 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

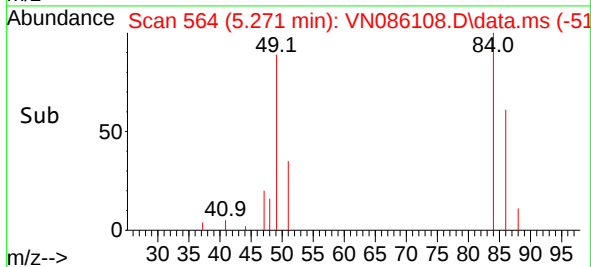
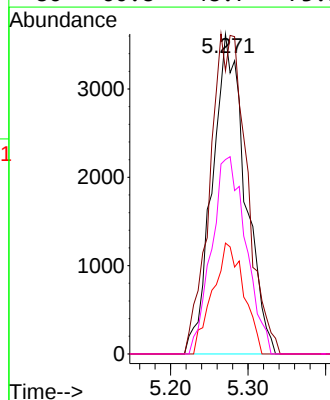
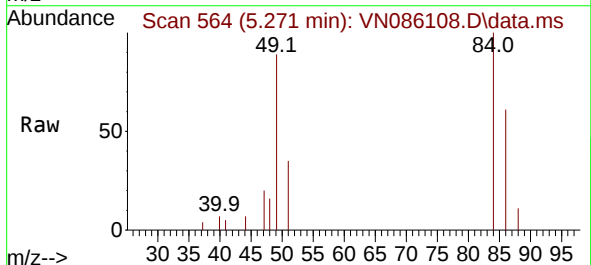
Instrument :
MSVOA_N
ClientSampleId :
TP-3

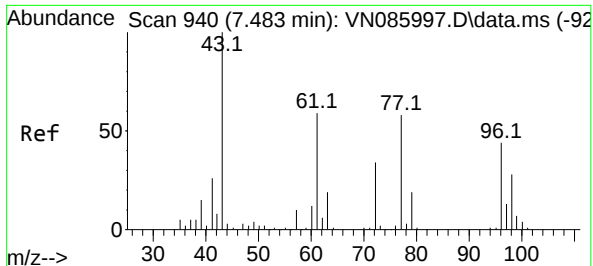
Tgt Ion: 43 Resp: 2782
Ion Ratio Lower Upper
43 100
74 3.1 23.9 35.9#



#20
Methylene Chloride
Concen: 5.189 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 84 Resp: 10702
Ion Ratio Lower Upper
84 100
49 88.6 83.3 124.9
51 34.7 24.8 37.2
86 60.8 48.7 73.1

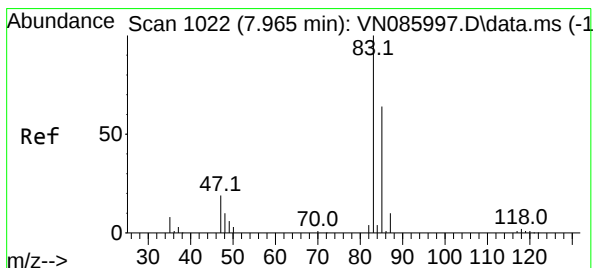
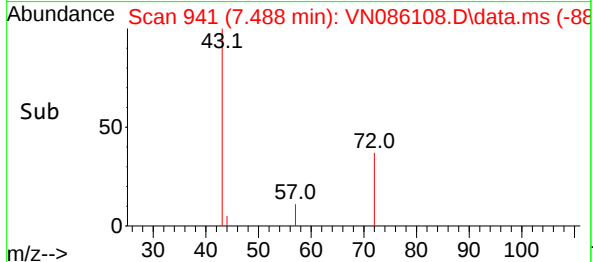
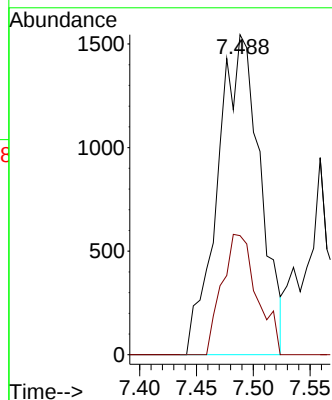
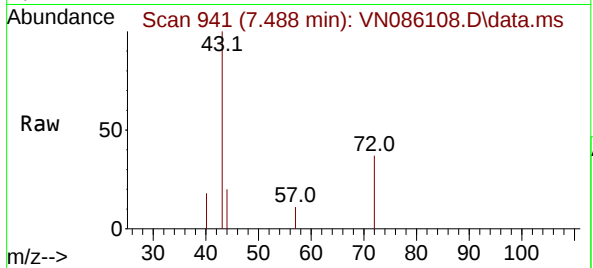




#25
2-Butanone
Concen: 3.945 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

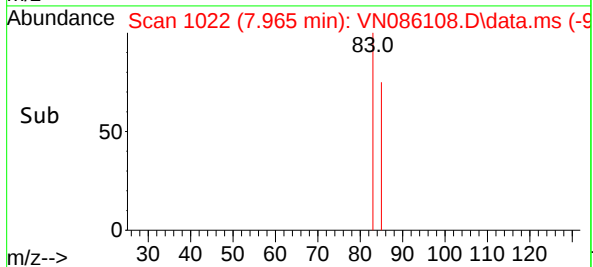
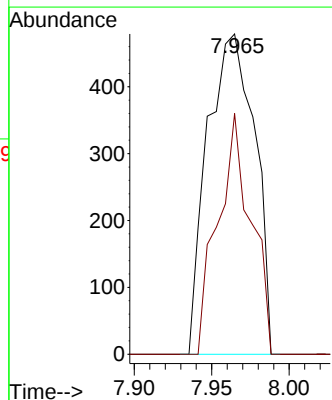
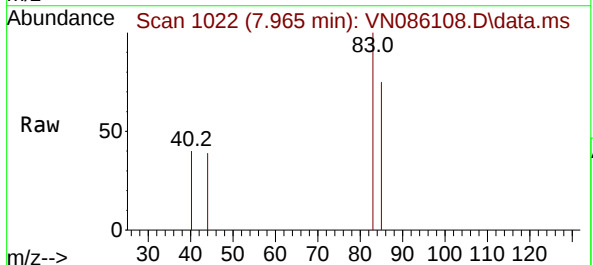
Instrument :
MSVOA_N
ClientSampleId :
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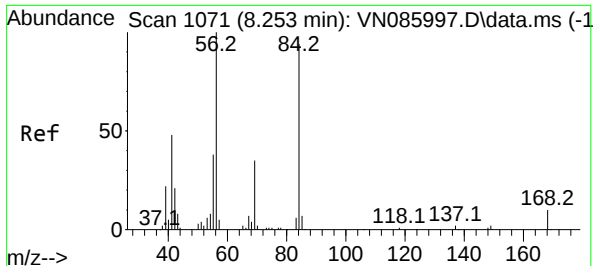
Tgt Ion: 43 Resp: 4013
Ion Ratio Lower Upper
43 100
72 37.2 27.4 41.0



#30
Chloroform
Concen: 0.272 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

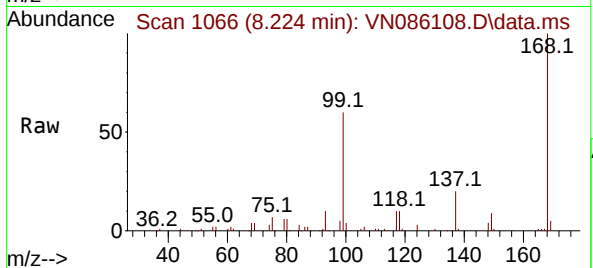
Tgt Ion: 83 Resp: 1015
Ion Ratio Lower Upper
83 100
85 75.2 51.5 77.3



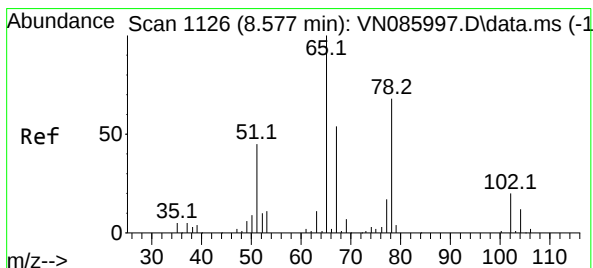
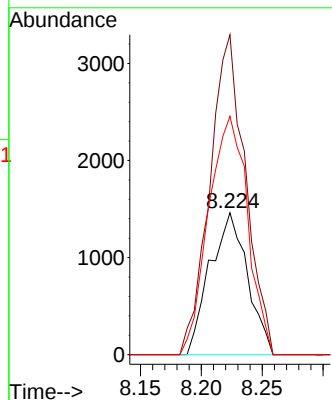
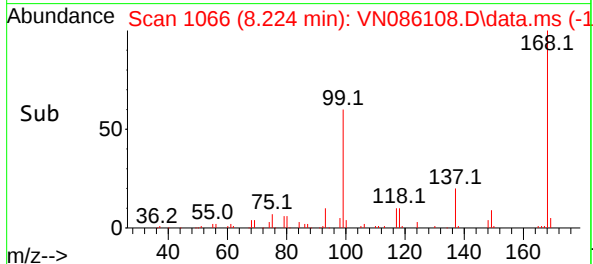


#31
Cyclohexane
Concen: 1.087 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Instrument :
MSVOA_N
ClientSampleId :
TP-3

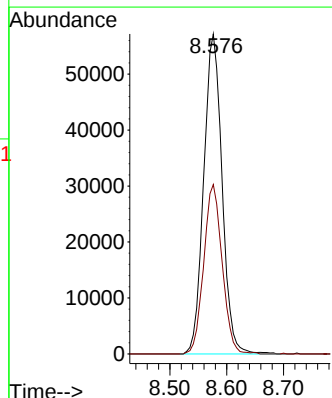
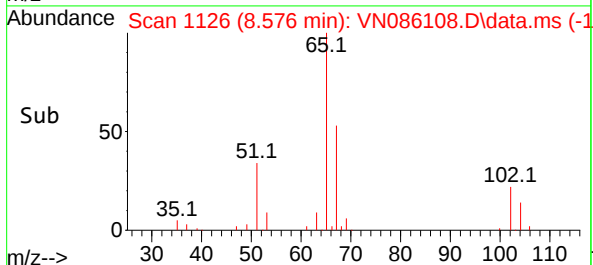
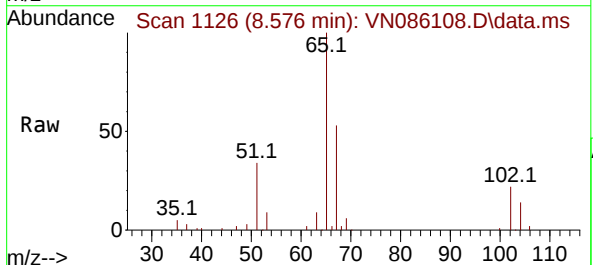


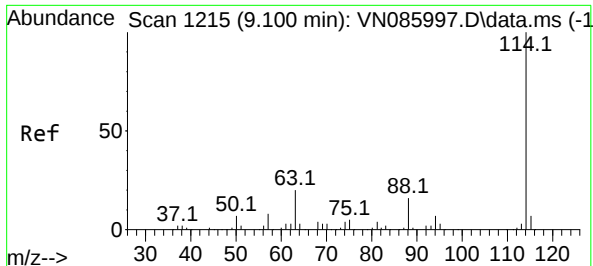
Tgt Ion: 56 Resp: 3125
Ion Ratio Lower Upper
56 100
69 225.4 28.0 42.0#
84 167.9 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 55.457 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 65 Resp: 127963
Ion Ratio Lower Upper
65 100
67 53.1 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086108.D

Acq: 25 Mar 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

TP-3

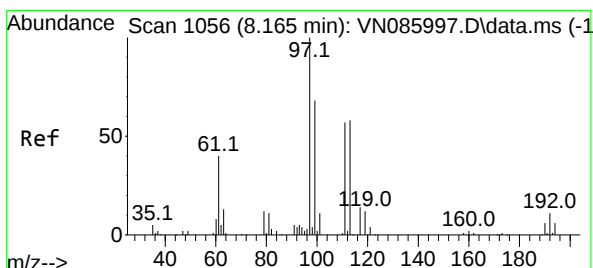
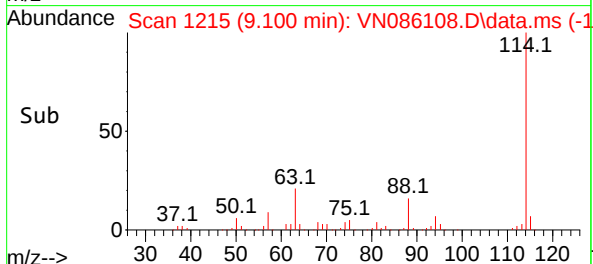
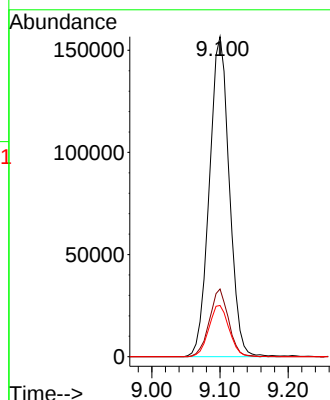
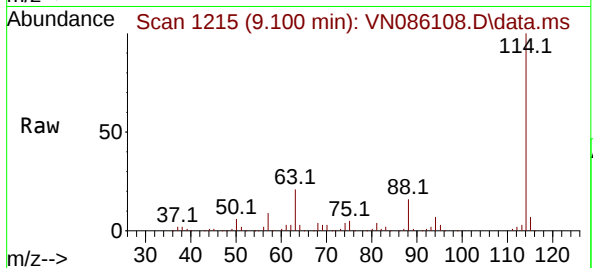
Tgt Ion:114 Resp: 318906

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.6

88 16.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.486 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086108.D

Acq: 25 Mar 2025 18:16

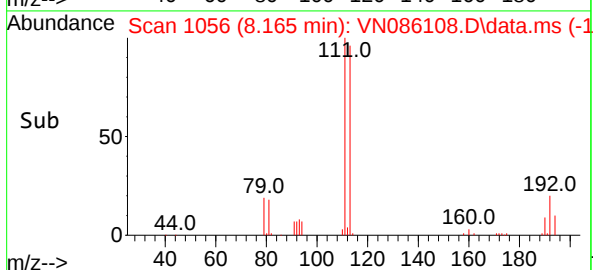
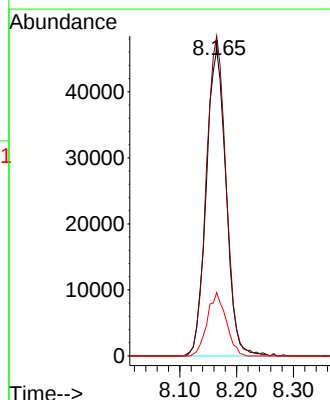
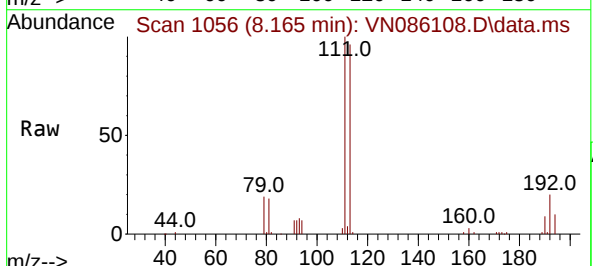
Tgt Ion:113 Resp: 112378

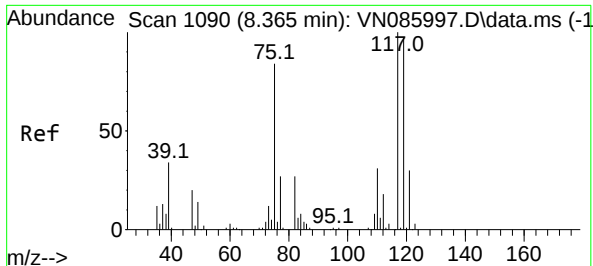
Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.8

192 19.8 15.9 23.9

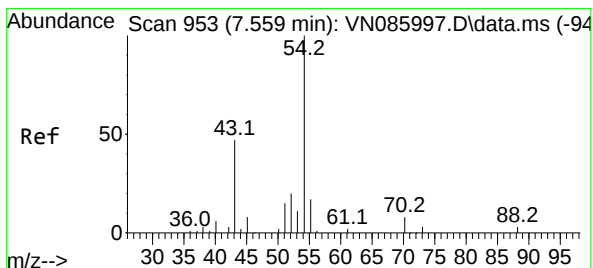
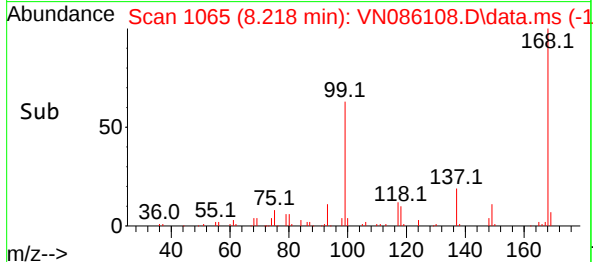
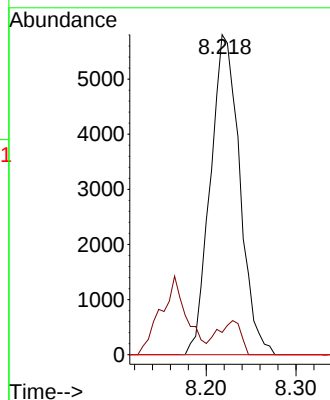
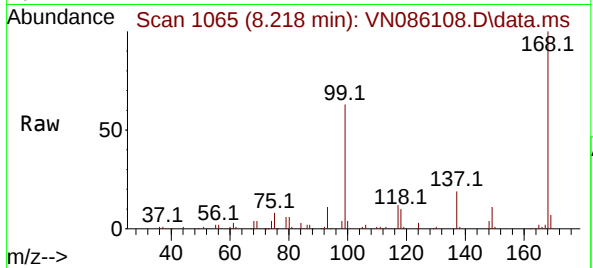




#36
1,1-Dichloropropene
Concen: 4.498 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

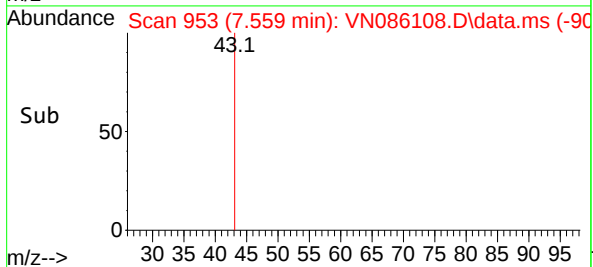
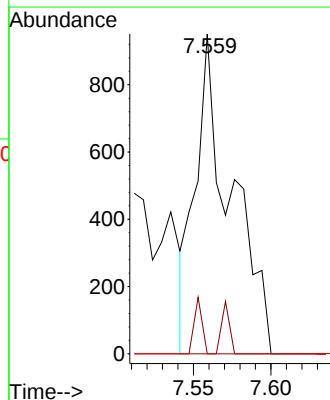
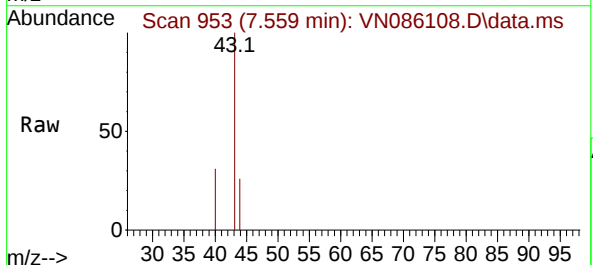
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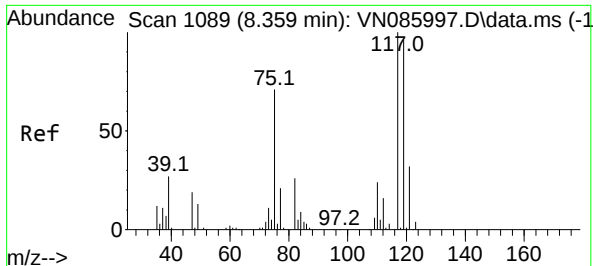
Tgt Ion: 75 Resp: 13183
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.613 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

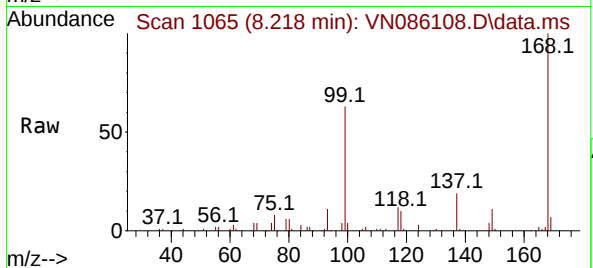
Tgt Ion: 43 Resp: 1517
Ion Ratio Lower Upper
43 100
61 3.9 13.0 19.4#
70 0.0 11.0 16.6#



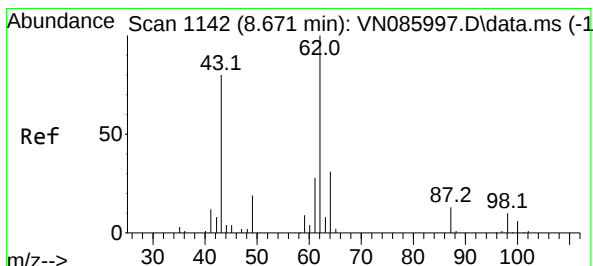
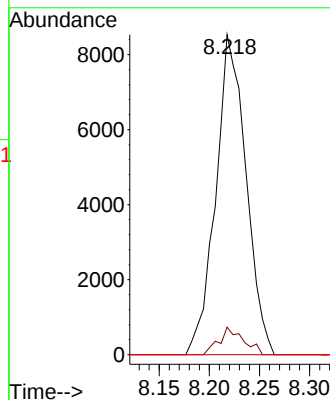
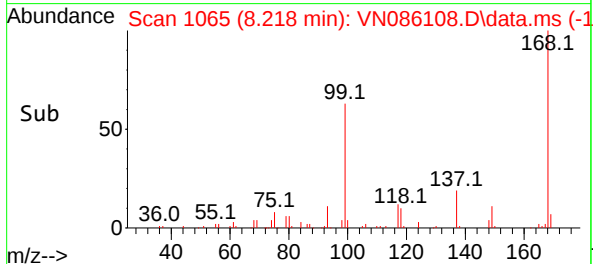


#38
Carbon Tetrachloride
Concen: 4.649 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Instrument :
MSVOA_N
ClientSampleId :
TP-3

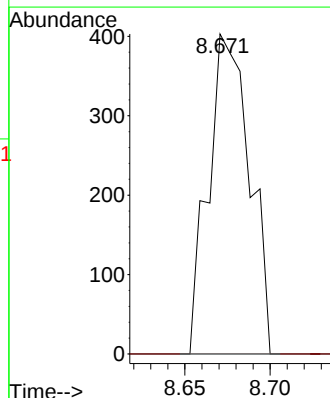
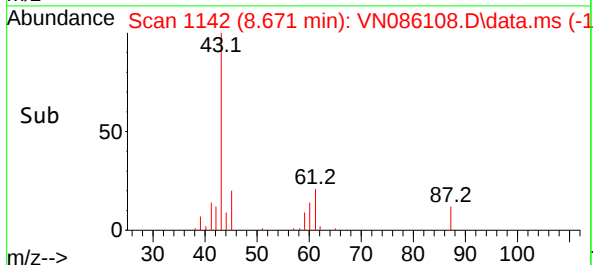
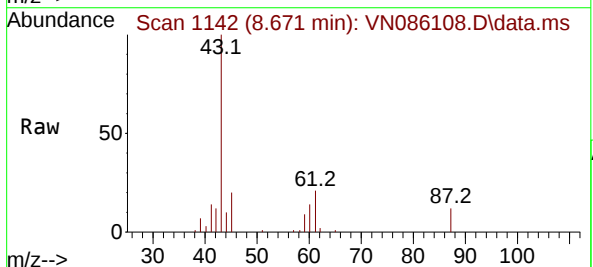


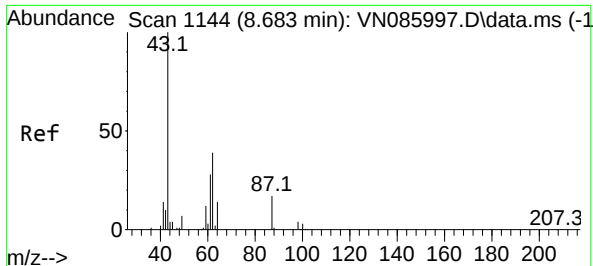
Tgt Ion:117 Resp: 17916
Ion Ratio Lower Upper
117 100
119 8.6 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.212 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 62 Resp: 680
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

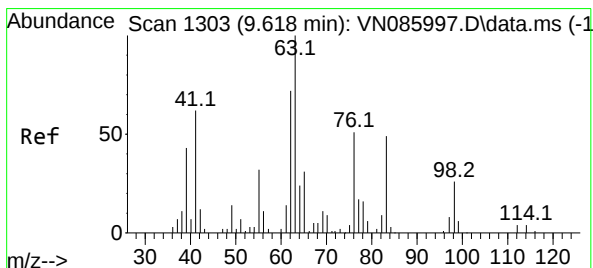
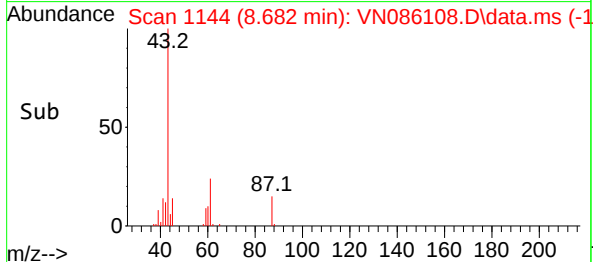
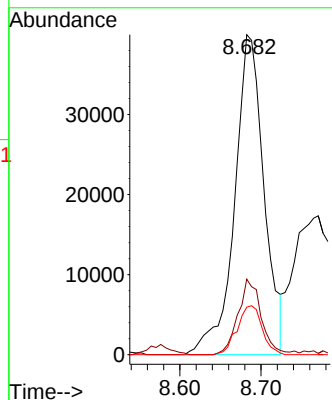
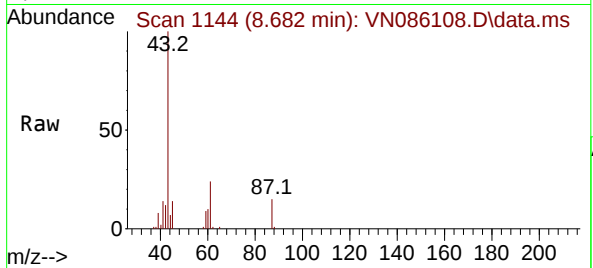




#43
Isopropyl Acetate
Concen: 18.769 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

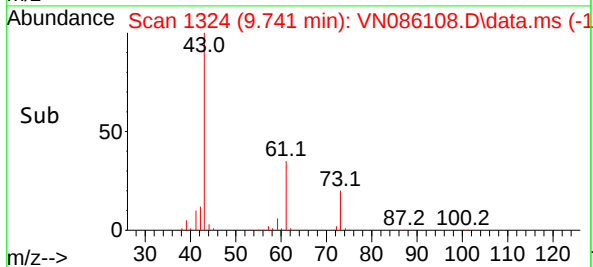
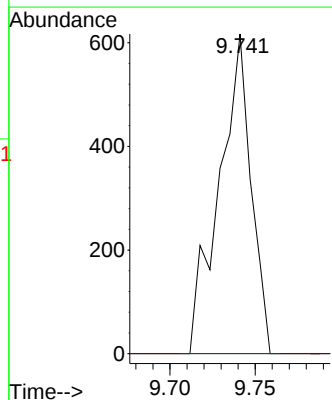
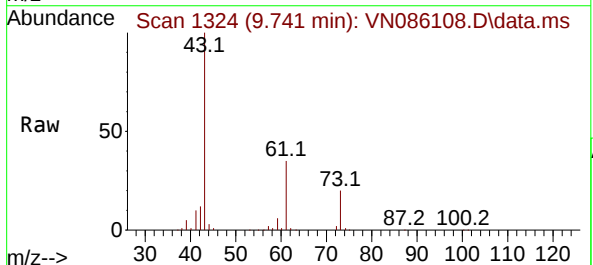
Instrument :
MSVOA_N
ClientSampleId :
TP-3

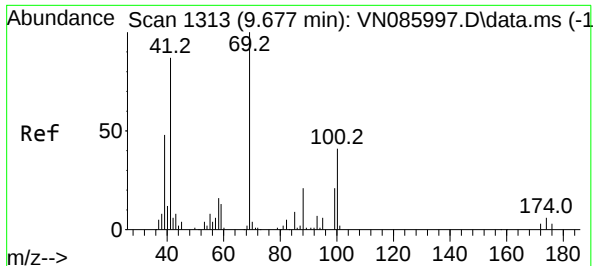
Tgt Ion: 43 Resp: 100568
Ion Ratio Lower Upper
43 100
61 18.6 25.0 37.6#
87 12.9 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.385 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 63 Resp: 806
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.399 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN086108.D

Acq: 25 Mar 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

TP-3

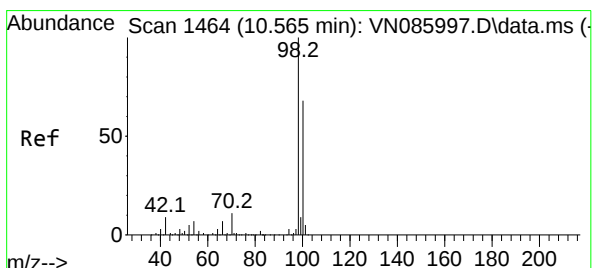
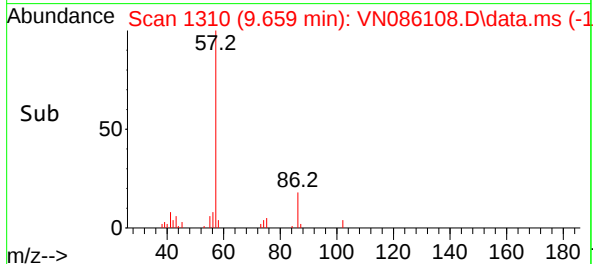
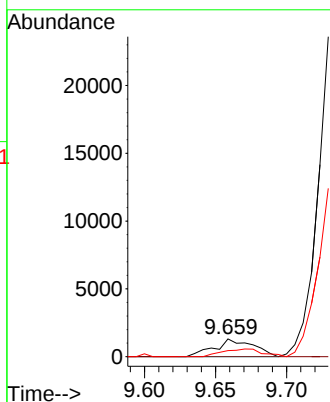
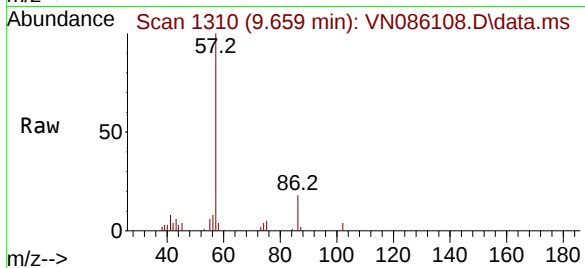
Tgt Ion: 41 Resp: 2474

Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 44.7 45.6 68.4#



#50

Toluene-d8

Concen: 51.025 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086108.D

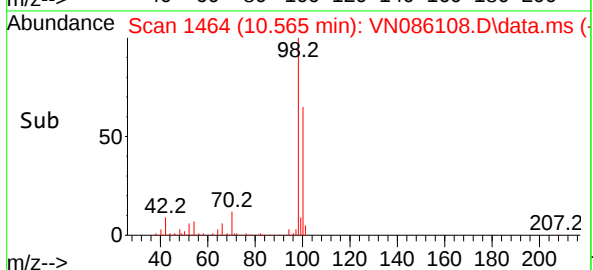
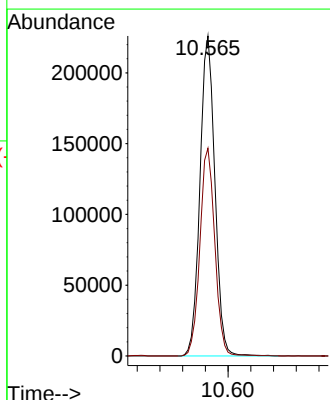
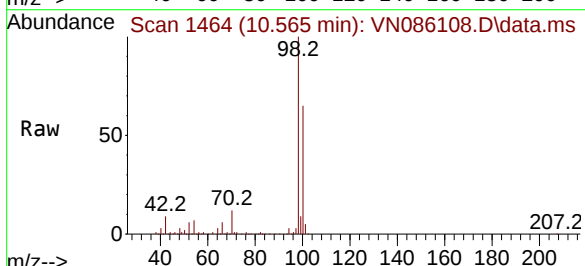
Acq: 25 Mar 2025 18:16

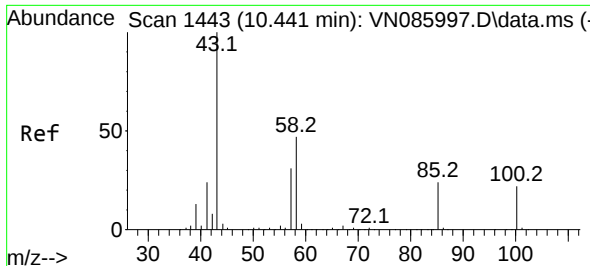
Tgt Ion: 98 Resp: 412211

Ion Ratio Lower Upper

98 100

100 64.9 53.1 79.7

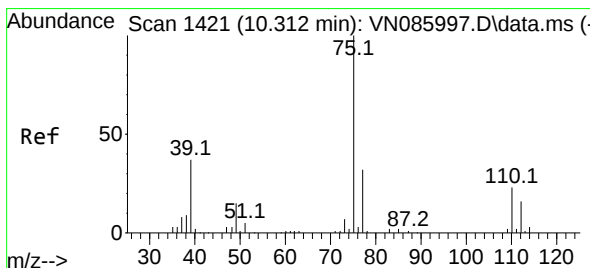
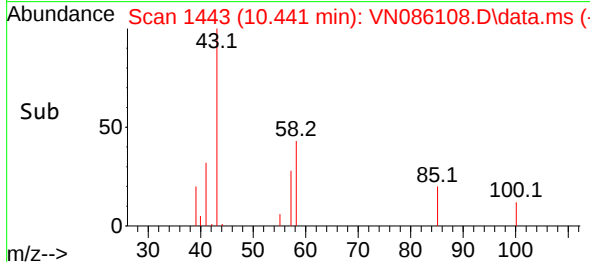
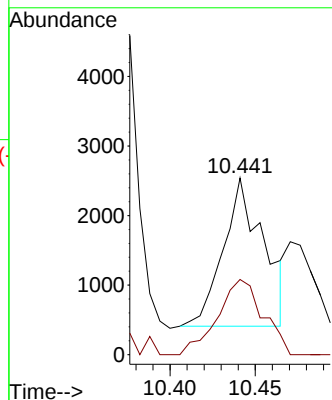
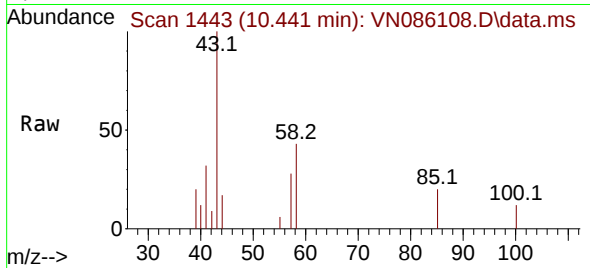




#51
4-Methyl-2-Pentanone
Concen: 1.480 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

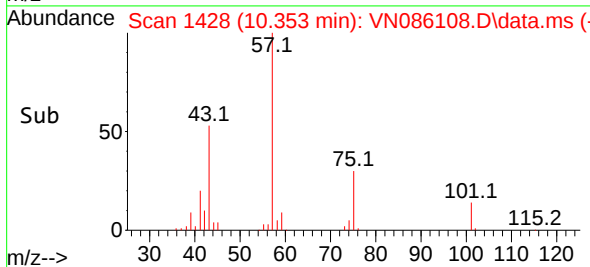
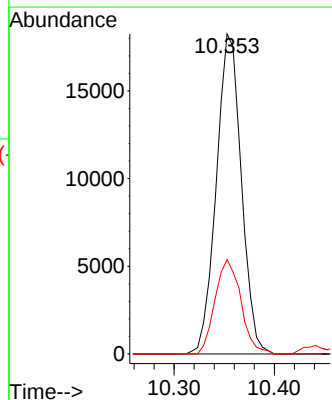
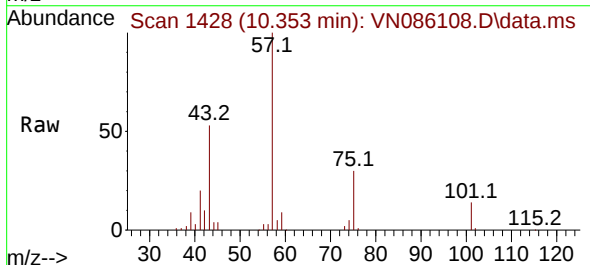
Instrument :
MSVOA_N
ClientSampleId :
TP-3

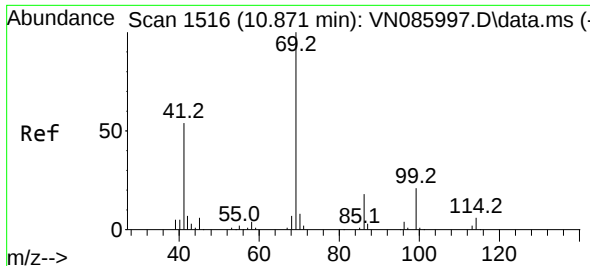
Tgt Ion: 43 Resp: 3498
Ion Ratio Lower Upper
43 100
58 57.3 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 8.979 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 75 Resp: 31644
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 29.5 29.6 44.4#

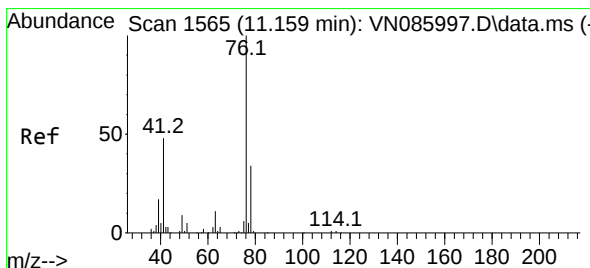
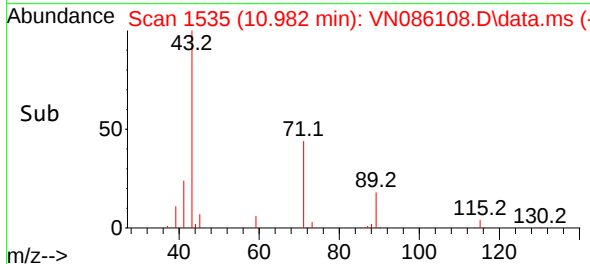
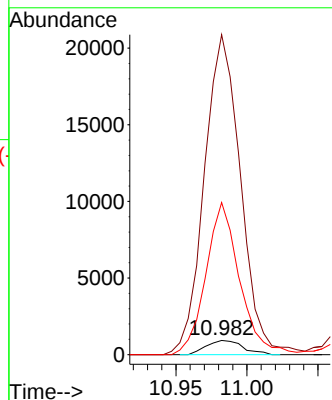
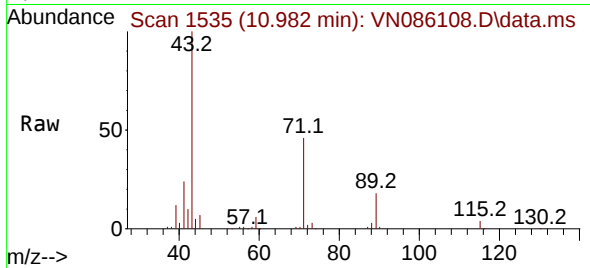




#56
Ethyl methacrylate
Concen: 0.802 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

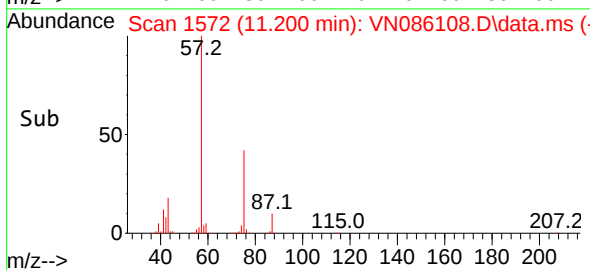
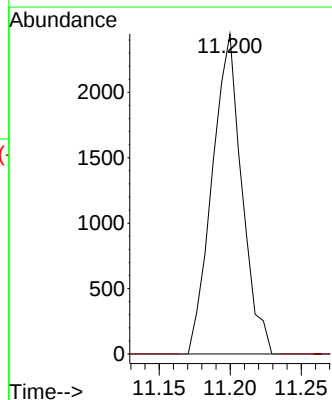
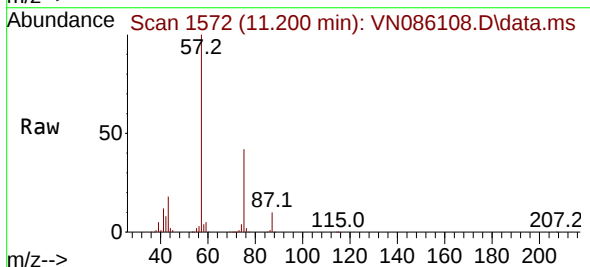
Instrument :
MSVOA_N
ClientSampleId :
TP-3

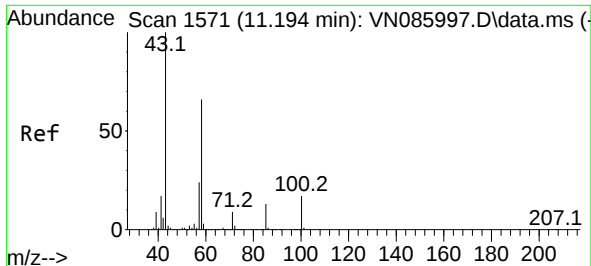
Tgt Ion: 69 Resp: 1671
Ion Ratio Lower Upper
69 100
41 2226.8 41.6 62.4#
39 981.3 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 0.972 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 76 Resp: 3560
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

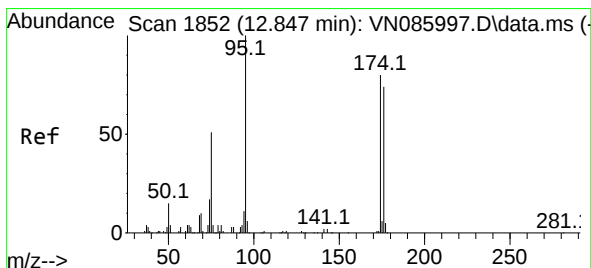
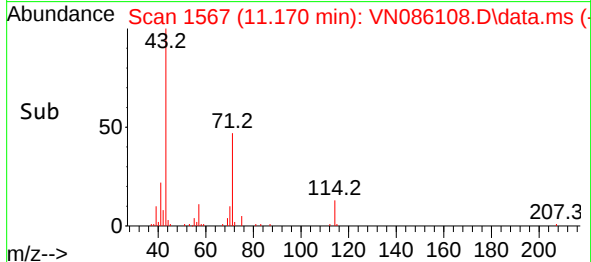
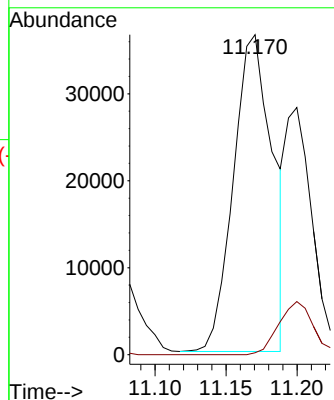
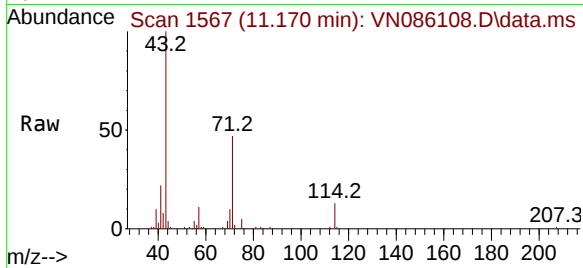




#59
2-Hexanone
Concen: 40.551 ug/l
RT: 11.170 min Scan# 11170
Delta R.T. -0.024 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

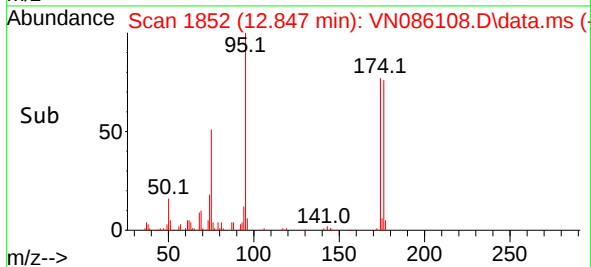
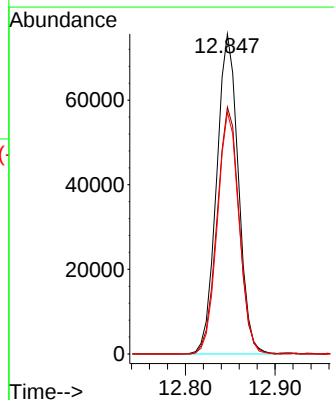
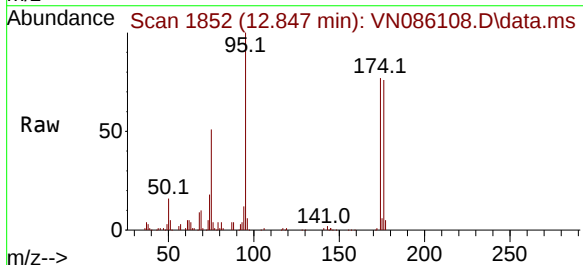
Instrument :
MSVOA_N
ClientSampleId :
TP-3

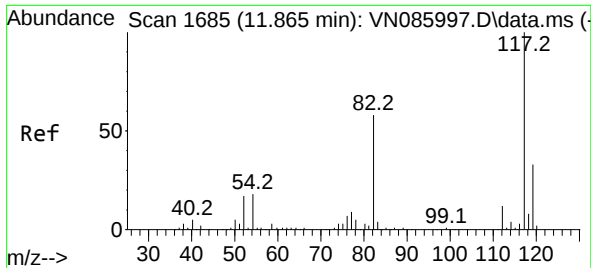
Tgt Ion: 43 Resp: 69809
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 44.181 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 95 Resp: 127289
Ion Ratio Lower Upper
95 100
174 78.1 0.0 156.8
176 75.4 0.0 152.2

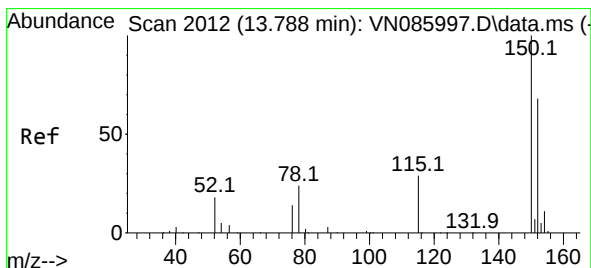
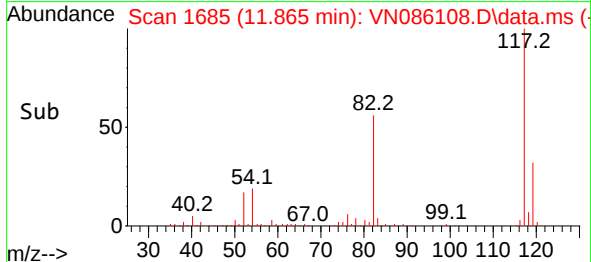
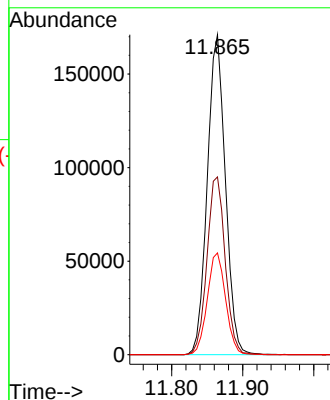
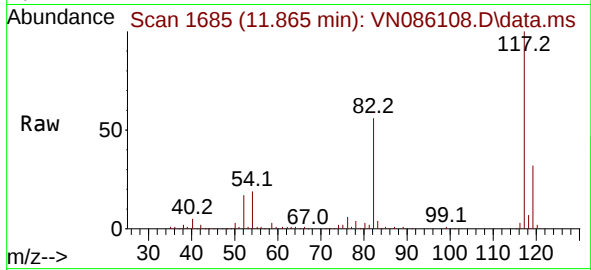




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

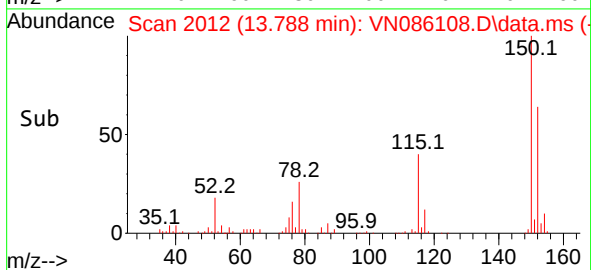
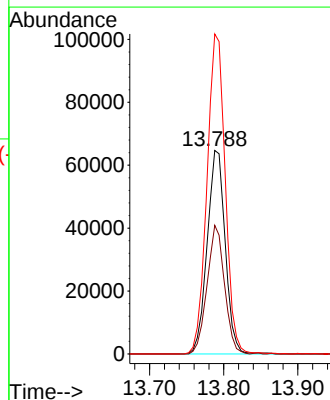
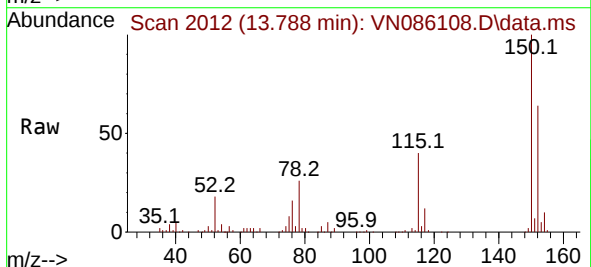
Instrument :
MSVOA_N
ClientSampleId :
TP-3

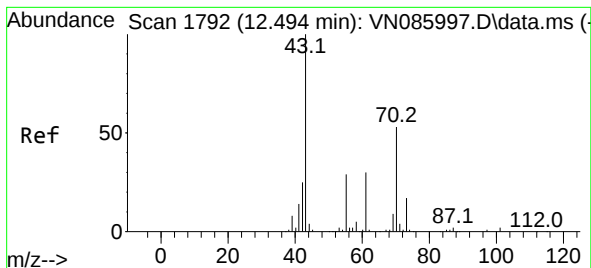
Tgt Ion:117 Resp: 302866
Ion Ratio Lower Upper
117 100
82 55.5 46.7 70.1
119 31.8 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion:152 Resp: 109559
Ion Ratio Lower Upper
152 100
115 60.8 31.1 93.2
150 159.0 0.0 359.6





#74

N-amy1 acetate

Concen: 0.248 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086108.D

Acq: 25 Mar 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

TP-3

Tgt Ion: 43 Resp: 622

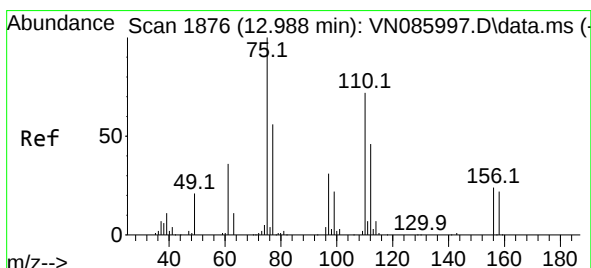
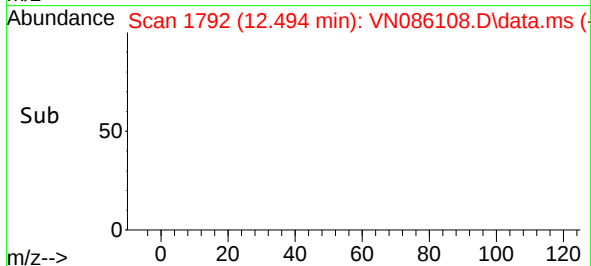
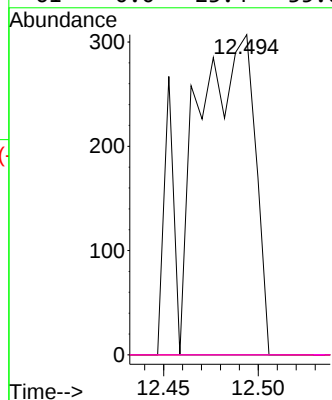
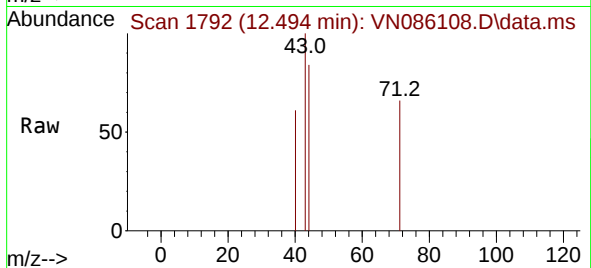
Ion Ratio Lower Upper

43 100

70 0.0 43.0 64.4#

55 0.0 23.8 35.8#

61 0.0 23.4 35.0#



#76

1,2,3-Trichloropropane

Concen: 25.607 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086108.D

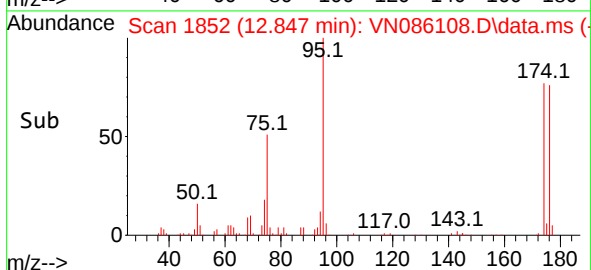
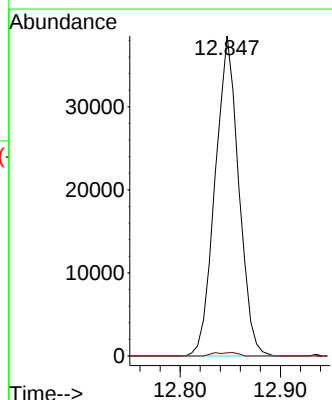
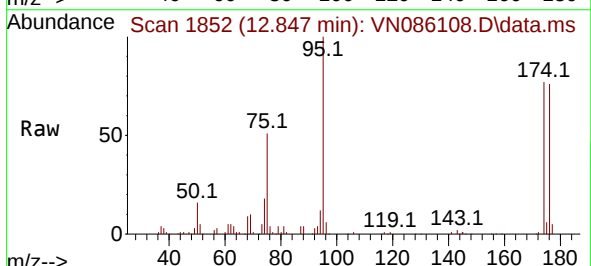
Acq: 25 Mar 2025 18:16

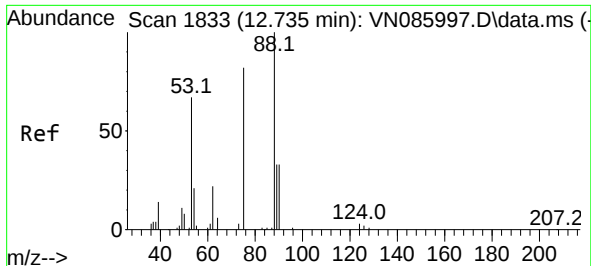
Tgt Ion: 75 Resp: 62810

Ion Ratio Lower Upper

75 100

77 1.1 83.7 251.0#

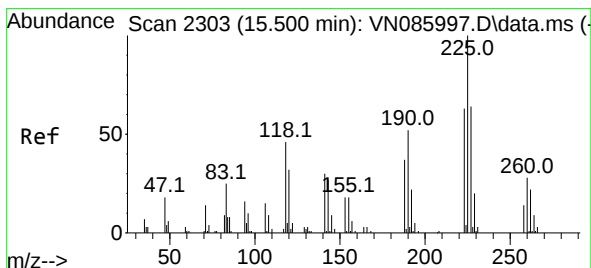
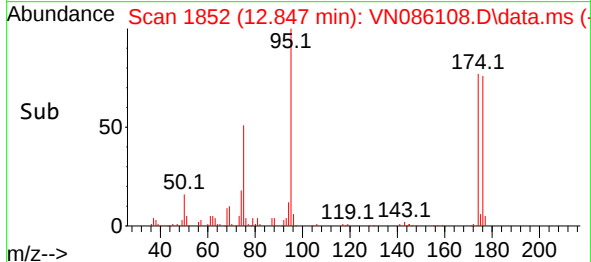
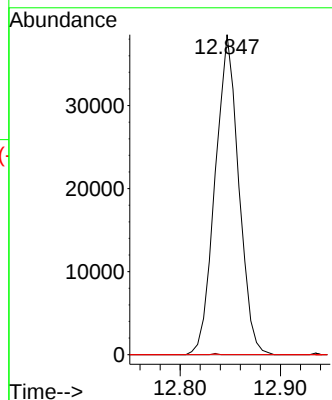
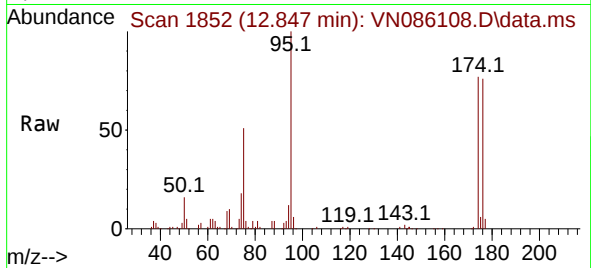




#81
trans-1,4-Dichloro-2-butene
Concen: 67.701 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.111 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

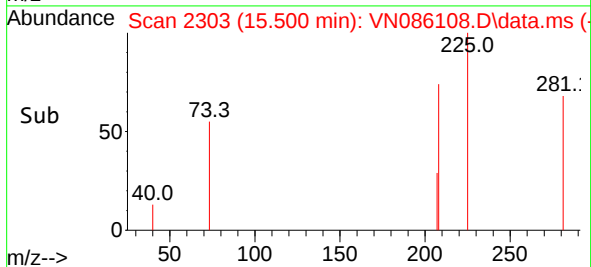
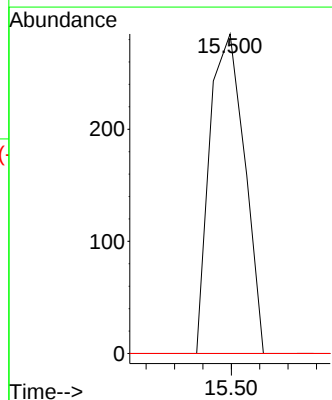
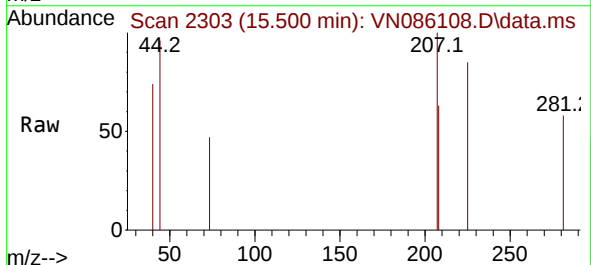
Instrument :
MSVOA_N
ClientSampleId :
TP-3

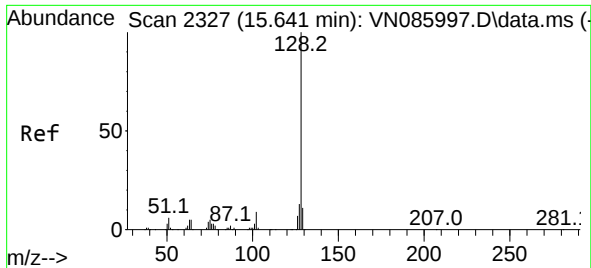
Tgt Ion: 75 Resp: 62810
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#



#94
Hexachlorobutadiene
Concen: 0.223 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086108.D
Acq: 25 Mar 2025 18:16

Tgt Ion: 225 Resp: 243
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.9#
227 0.0 32.1 96.3#





#95

Naphthalene

Concen: 0.211 ug/l

RT: 15.629 min Scan# 21

Delta R.T. -0.012 min

Lab File: VN086108.D

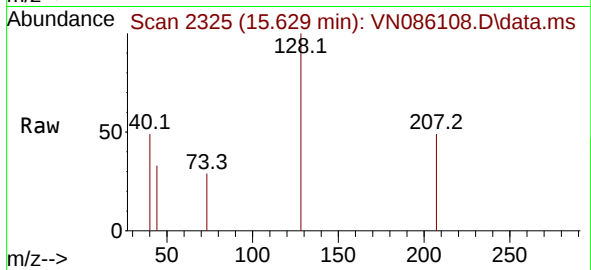
Acq: 25 Mar 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

TP-3



Tgt Ion:128 Resp: 1148

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 9.0 13.6#

