

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086096.D
 Acq On : 25 Mar 2025 13:28
 Operator : JC\MD
 Sample : PB167276ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#01

Quant Time: Mar 26 03:16:27 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)

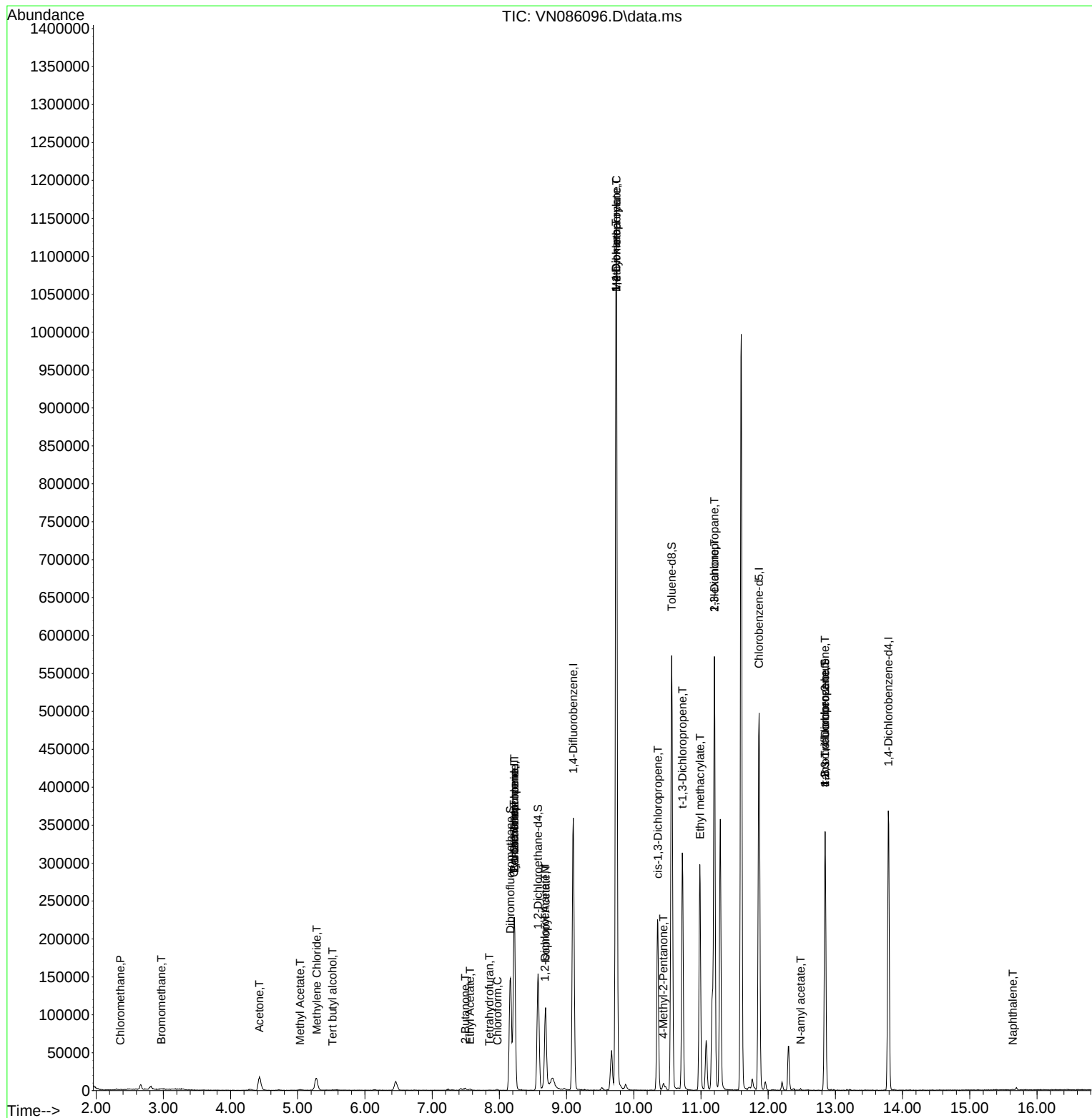
Internal Standards						
1) Pentafluorobenzene	8.224	168	167256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318766	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106726	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126469	55.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.440%			
35) Dibromofluoromethane	8.165	113	113240	50.896	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.800%			
50) Toluene-d8	10.565	98	412778	51.118	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.240%			
62) 4-Bromofluorobenzene	12.847	95	120455	41.828	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.660%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	499	0.257	ug/l	89
5) Bromomethane	2.971	94	572	0.423	ug/l	87
11) Tert butyl alcohol	5.518	59	473	1.459	ug/l #	73
16) Acetone	4.430	43	33222	47.480	ug/l	96
18) Methyl Acetate	5.036	43	1967	1.136	ug/l #	60
20) Methylene Chloride	5.283	84	13464	6.578	ug/l	96
25) 2-Butanone	7.494	43	4448	4.406	ug/l #	81
29) Tetrahydrofuran	7.853	42	197	0.316	ug/l #	46
30) Chloroform	7.971	83	1081	0.292	ug/l #	80
31) Cyclohexane	8.218	56	3584	1.256	ug/l #	6
36) 1,1-Dichloropropene	8.224	75	13817	4.716	ug/l #	48
37) Ethyl Acetate	7.565	43	3201	1.295	ug/l #	74
38) Carbon Tetrachloride	8.224	117	17954	4.661	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	803	0.251	ug/l #	74
43) Isopropyl Acetate	8.688	43	118196	22.069	ug/l #	87
45) 1,2-Dichloropropane	9.741	63	1543	0.738	ug/l #	44
48) Methyl methacrylate	9.741	41	96299	54.487	ug/l #	32
49) 1,4-Dioxane	9.735	88	150	3.590	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	8526	3.610	ug/l #	76
53) t-1,3-Dichloropropene	10.724	75	800	0.240	ug/l #	87
54) cis-1,3-Dichloropropene	10.359	75	45359	12.876	ug/l #	65
56) Ethyl methacrylate	10.988	69	1833	0.862	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6209	1.697	ug/l #	42
59) 2-Hexanone	11.200	43	58946	34.256	ug/l #	53
74) N-amyl acetate	12.482	43	789	0.324	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	57832	24.204	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	57832	63.990	ug/l #	16
95) Naphthalene	15.641	128	1428	0.269	ug/l #	74

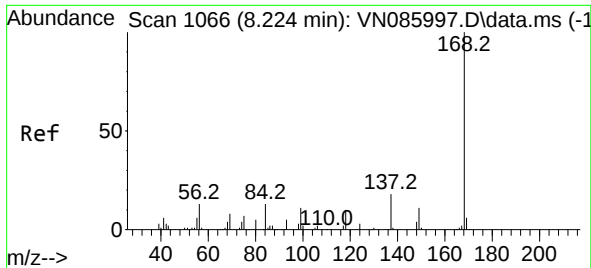
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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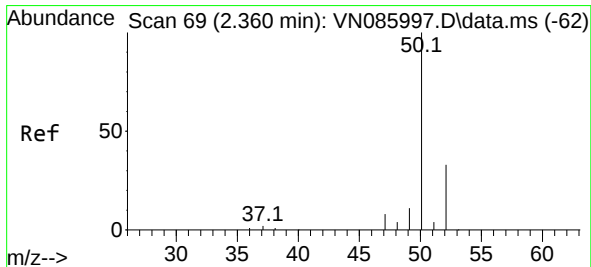
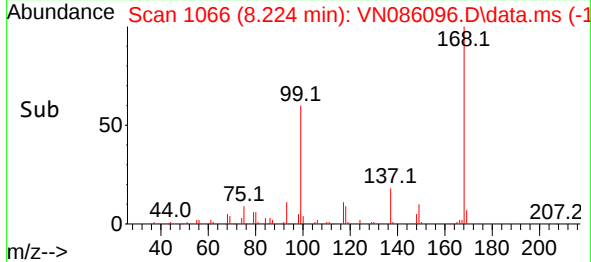
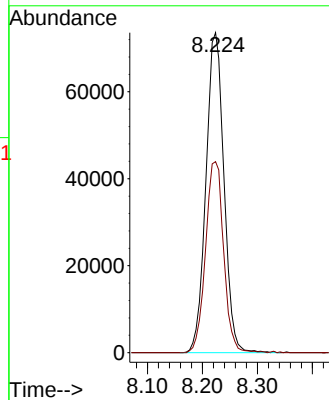
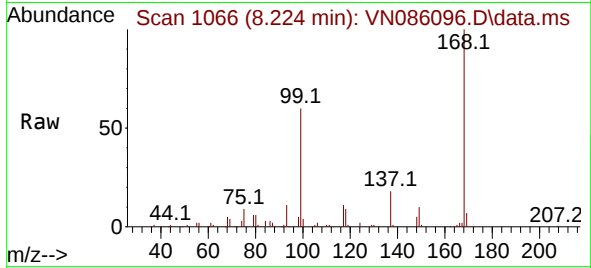




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

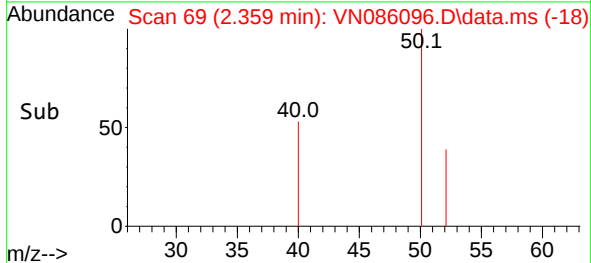
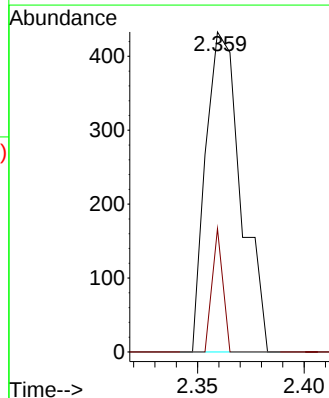
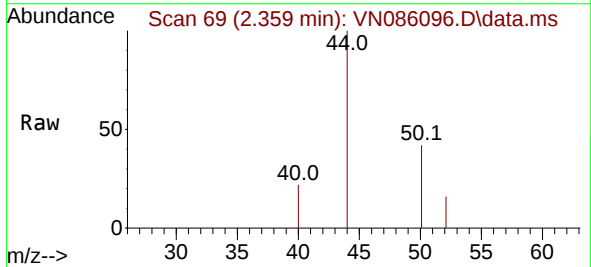
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

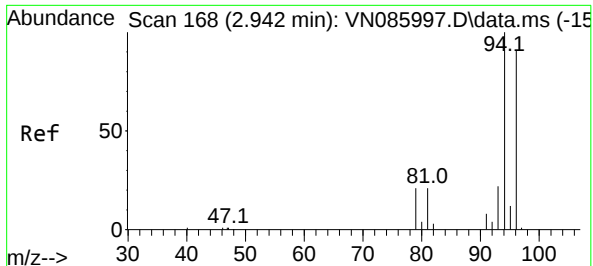
Tgt Ion:168 Resp: 167256
Ion Ratio Lower Upper
168 100
99 59.7 49.4 74.2



#3
Chloromethane
Concen: 0.257 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 50 Resp: 499
Ion Ratio Lower Upper
50 100
52 38.6 26.0 39.0





#5

Bromomethane

Concen: 0.423 ug/l

RT: 2.971 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

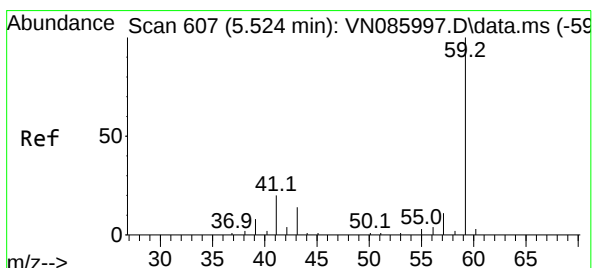
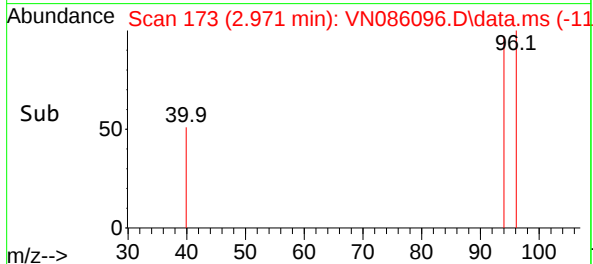
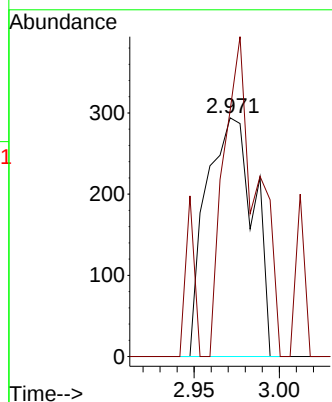
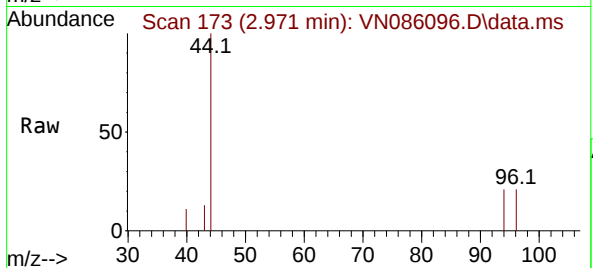
PB167276ZHE#01

Tgt Ion: 94 Resp: 572

Ion Ratio Lower Upper

94 100

96 103.1 72.8 109.2



#11

Tert butyl alcohol

Concen: 1.459 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.006 min

Lab File: VN086096.D

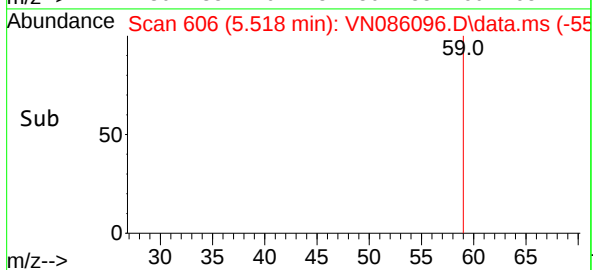
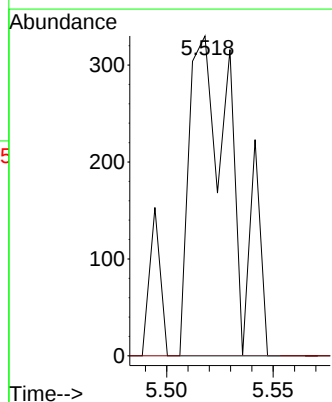
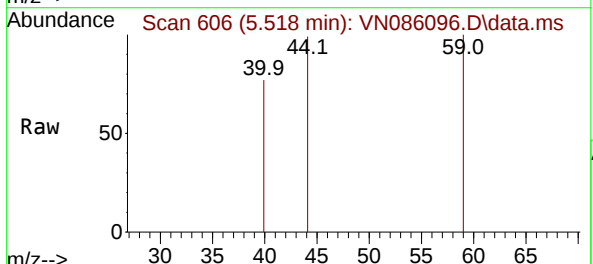
Acq: 25 Mar 2025 13:28

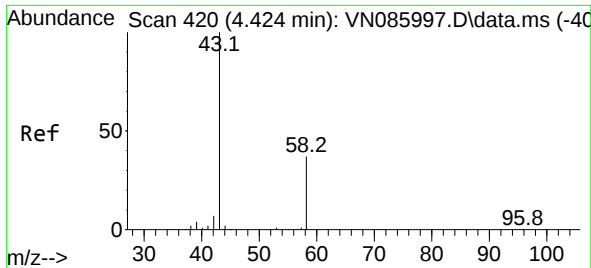
Tgt Ion: 59 Resp: 473

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 47.480 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

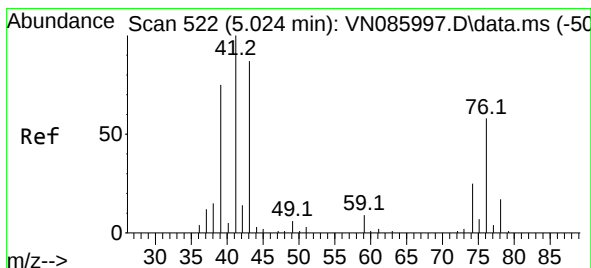
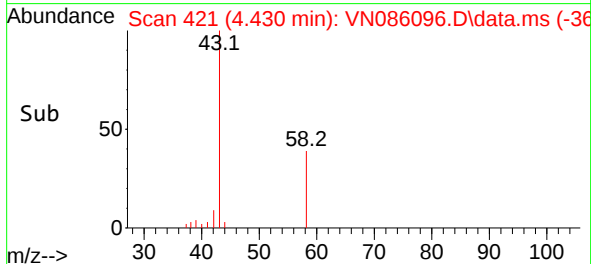
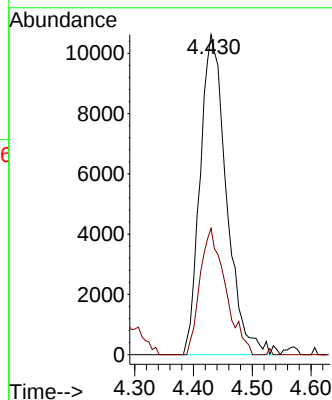
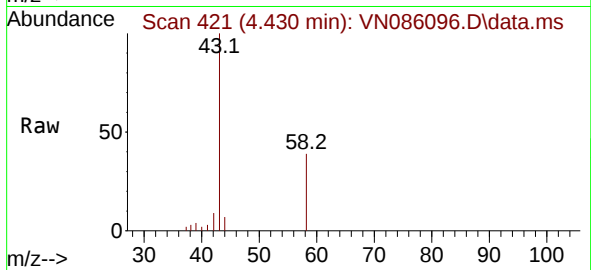
PB167276ZHE#01

Tgt Ion: 43 Resp: 33222

Ion Ratio Lower Upper

43 100

58 39.4 29.4 44.2



#18

Methyl Acetate

Concen: 1.136 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN086096.D

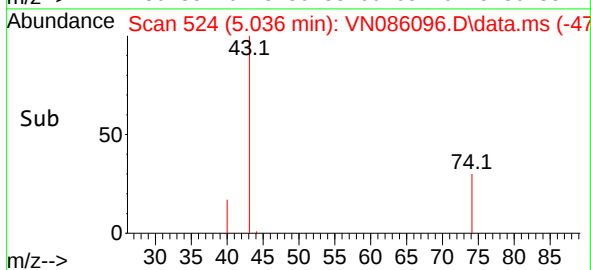
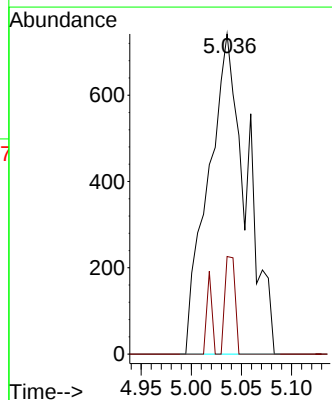
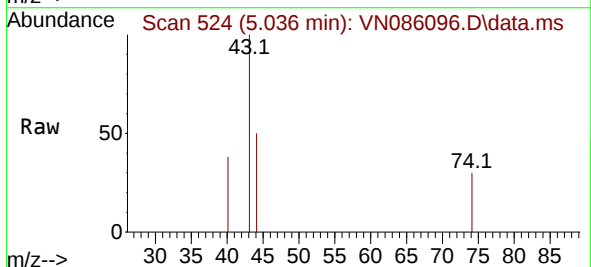
Acq: 25 Mar 2025 13:28

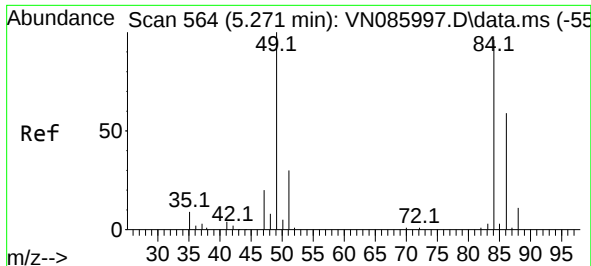
Tgt Ion: 43 Resp: 1967

Ion Ratio Lower Upper

43 100

74 8.0 23.9 35.9#

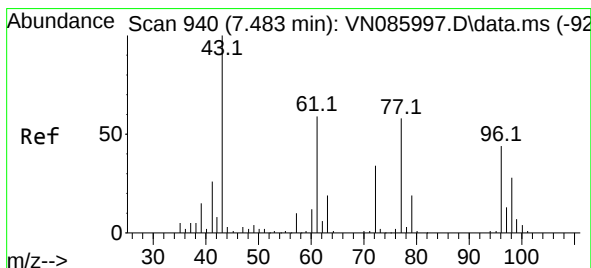
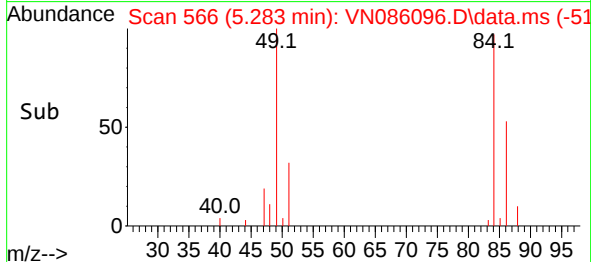
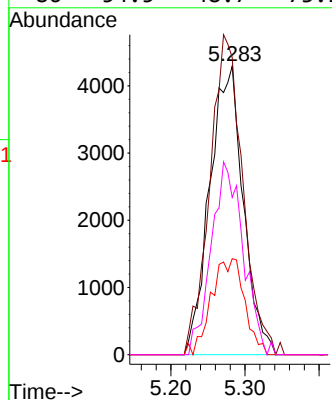
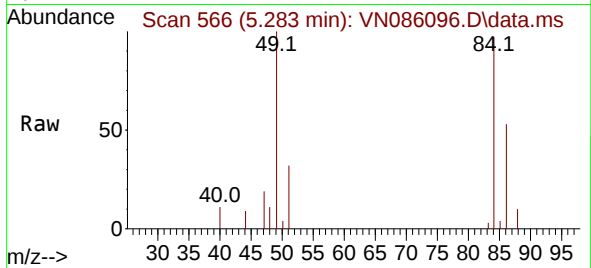




#20
Methylene Chloride
Concen: 6.578 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

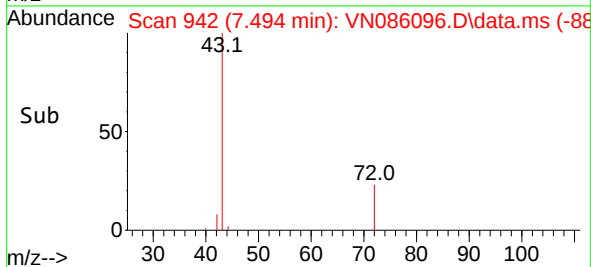
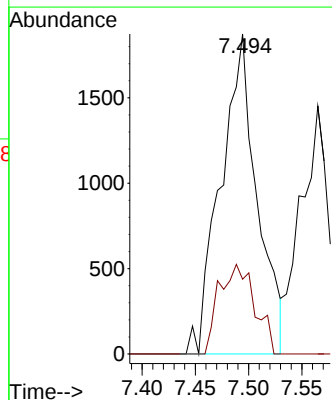
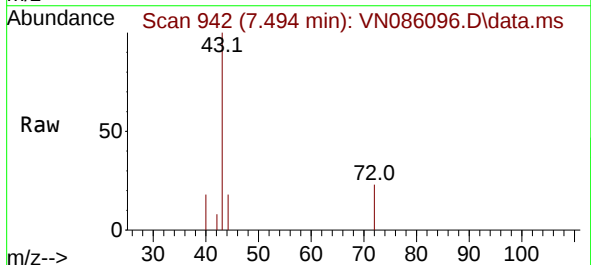
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

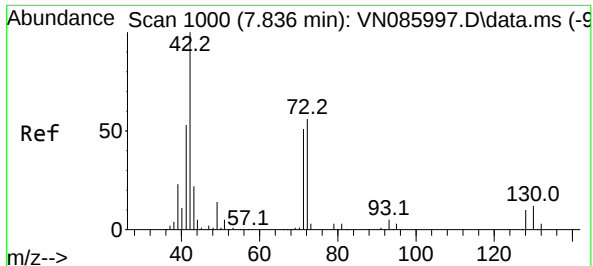
Tgt Ion: 84	Resp:	13464	
Ion	Ratio	Lower	Upper
84	100		
49	103.1	83.3	124.9
51	33.3	24.8	37.2
86	54.5	48.7	73.1



#25
2-Butanone
Concen: 4.406 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 43	Resp:	4448	
Ion	Ratio	Lower	Upper
43	100		
72	23.4	27.4	41.0#





#29

Tetrahydrofuran

Concen: 0.316 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.017 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#01

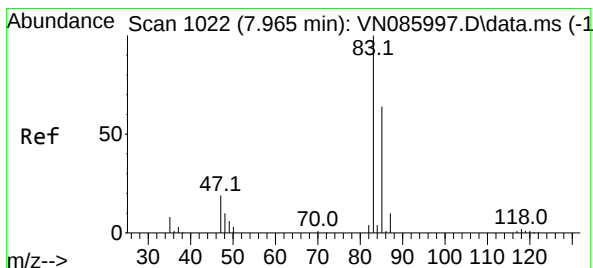
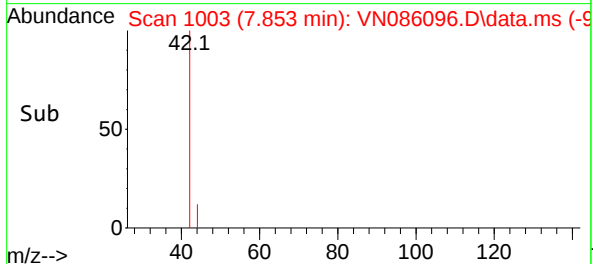
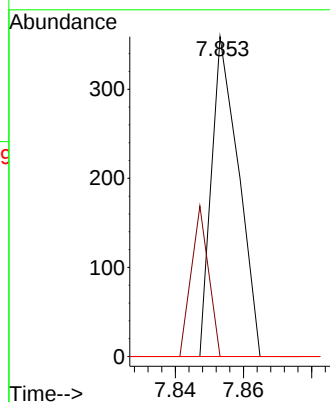
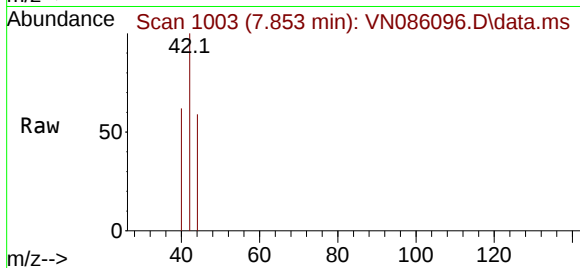
Tgt Ion: 42 Resp: 197

Ion Ratio Lower Upper

42 100

72 30.5 45.0 67.4#

71 0.0 41.9 62.9#



#30

Chloroform

Concen: 0.292 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN086096.D

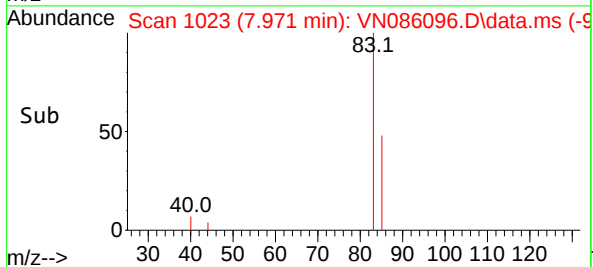
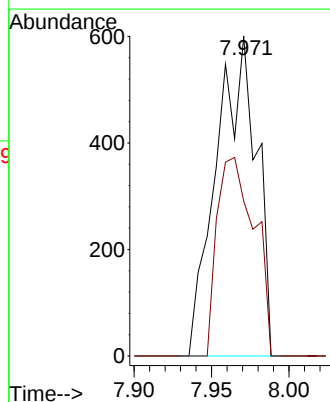
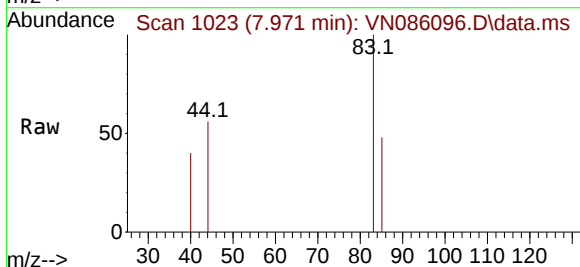
Acq: 25 Mar 2025 13:28

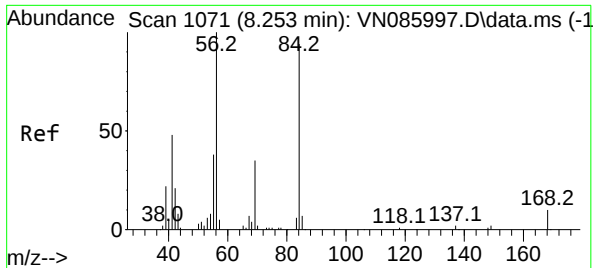
Tgt Ion: 83 Resp: 1081

Ion Ratio Lower Upper

83 100

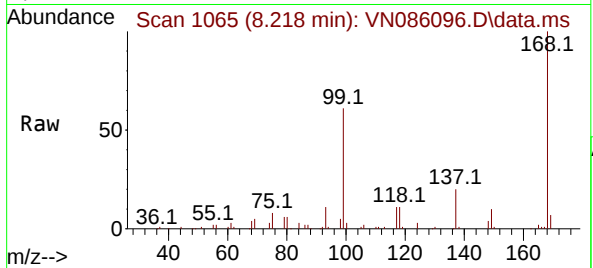
85 48.4 51.5 77.3#



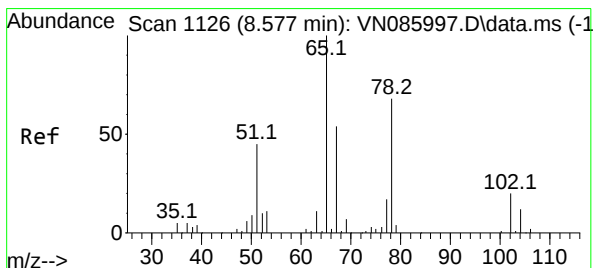
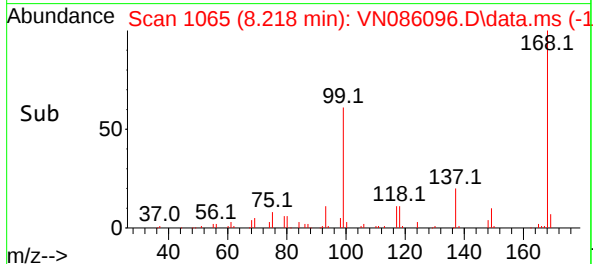
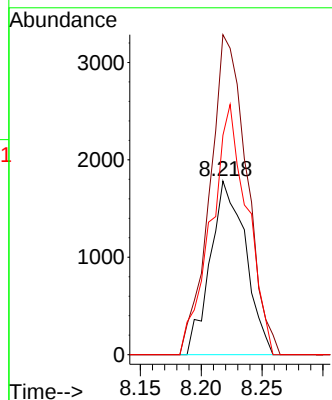


#31
Cyclohexane
Concen: 1.256 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

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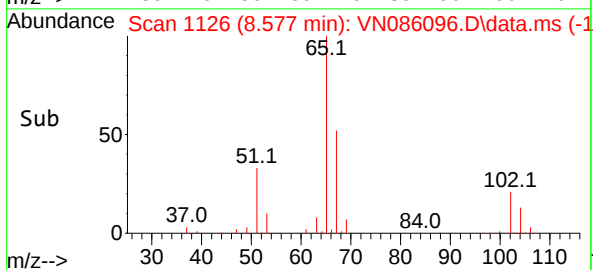
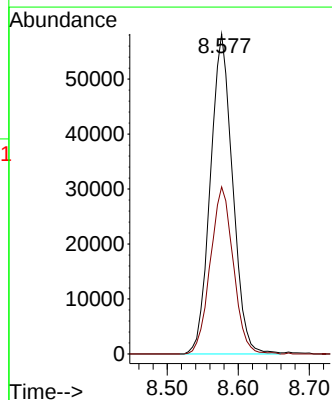
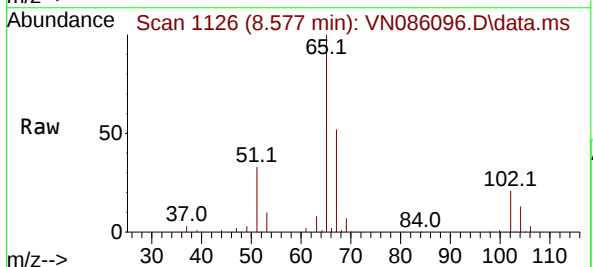


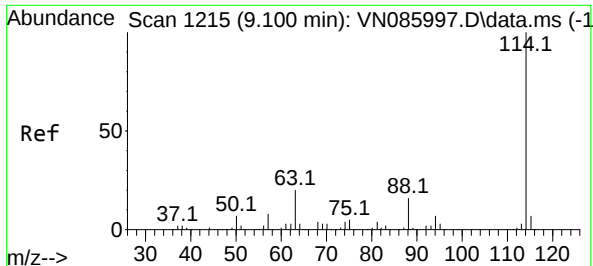
Tgt Ion: 56 Resp: 3584
Ion Ratio Lower Upper
56 100
69 184.3 28.0 42.0#
84 126.3 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 55.219 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 65 Resp: 126469
Ion Ratio Lower Upper
65 100
67 53.8 0.0 102.2

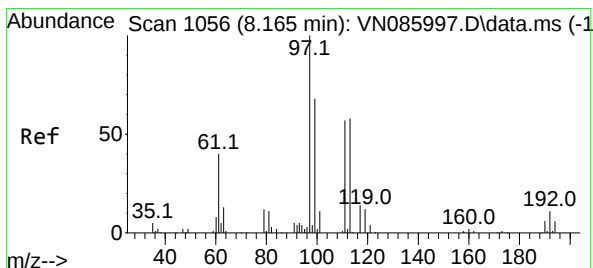
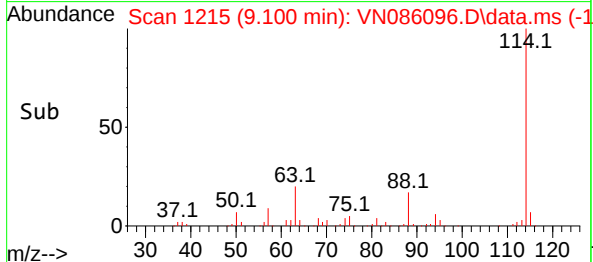
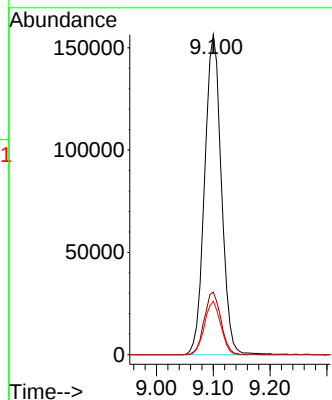
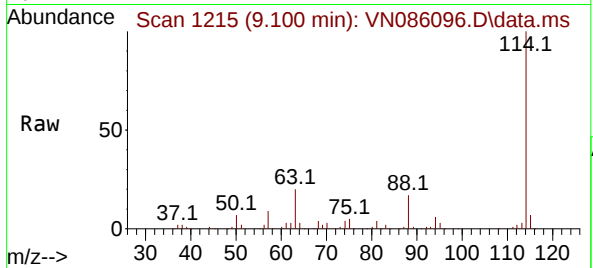




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

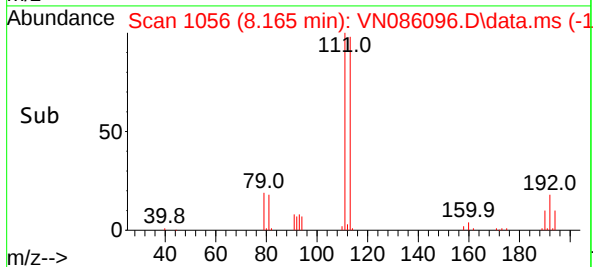
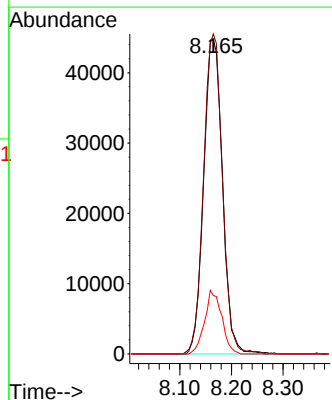
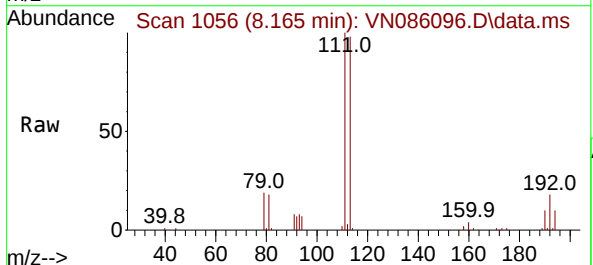
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

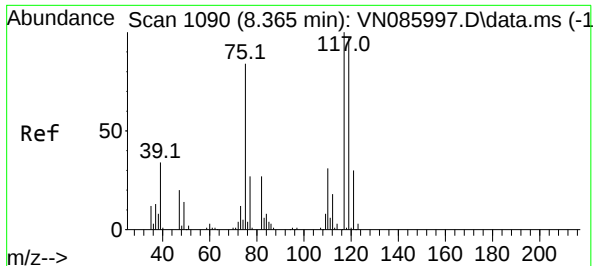
Tgt Ion:114 Resp: 318766
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.6
88 16.7 0.0 32.6



#35
Dibromofluoromethane
Concen: 50.896 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion:113 Resp: 113240
Ion Ratio Lower Upper
113 100
111 101.2 81.8 122.8
192 18.3 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#01

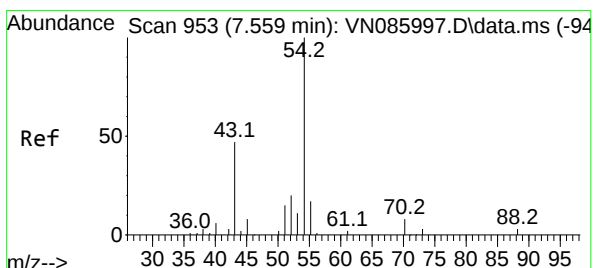
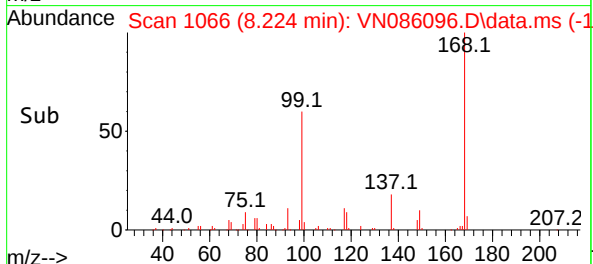
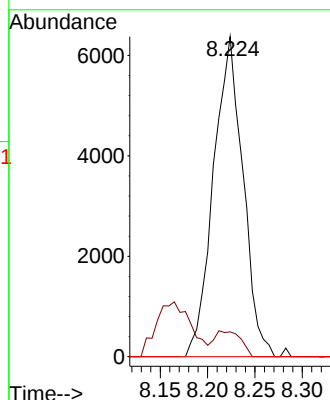
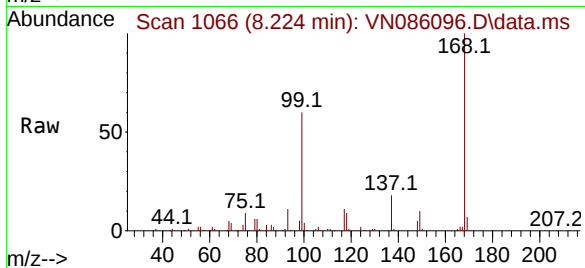
Tgt Ion: 75 Resp: 13817

Ion Ratio Lower Upper

75 100

110 7.2 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.295 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

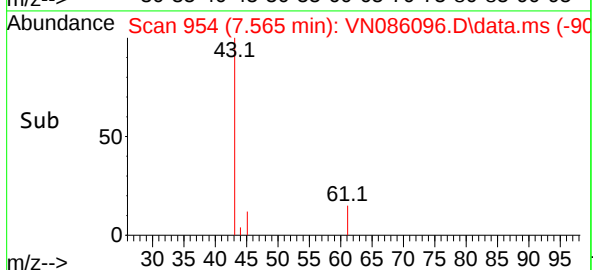
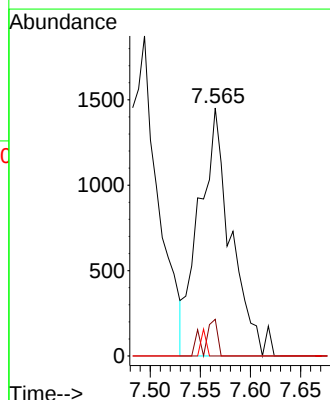
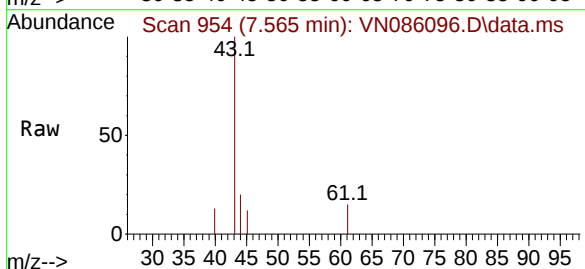
Tgt Ion: 43 Resp: 3201

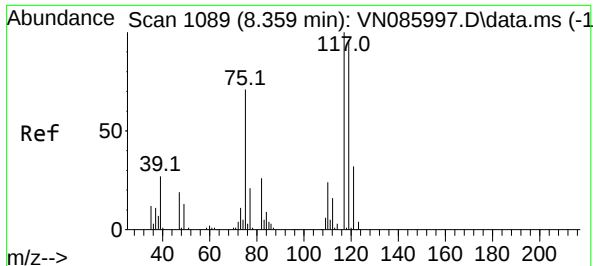
Ion Ratio Lower Upper

43 100

61 6.1 13.0 19.4#

70 1.7 11.0 16.6#

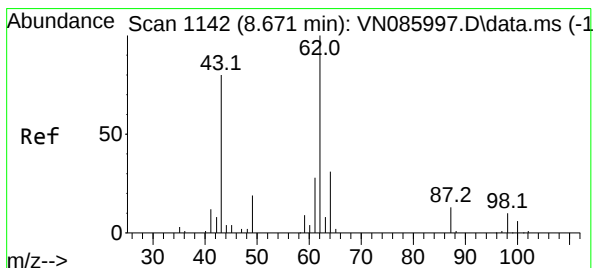
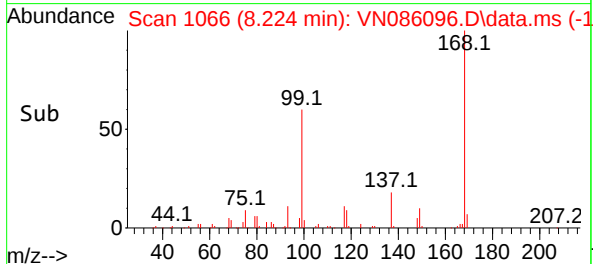
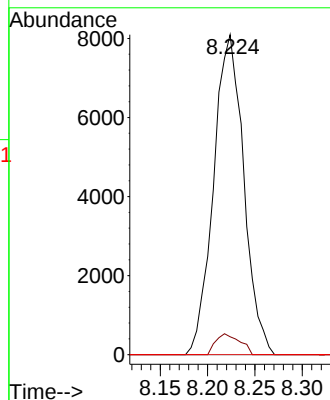
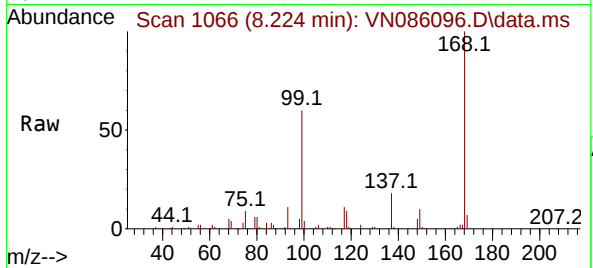




#38
Carbon Tetrachloride
Concen: 4.661 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

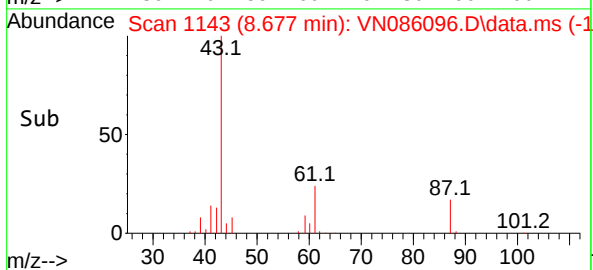
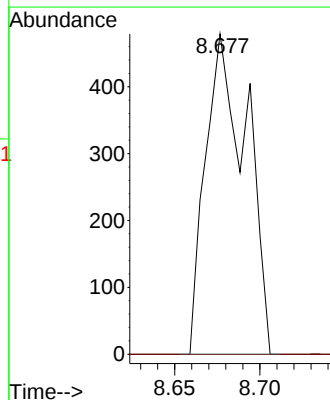
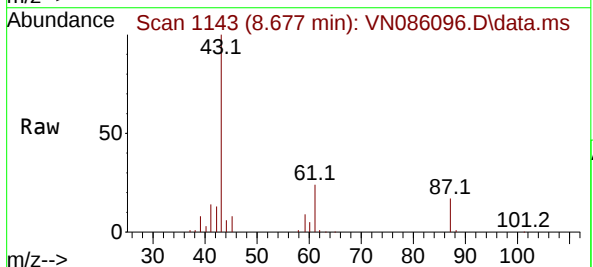
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

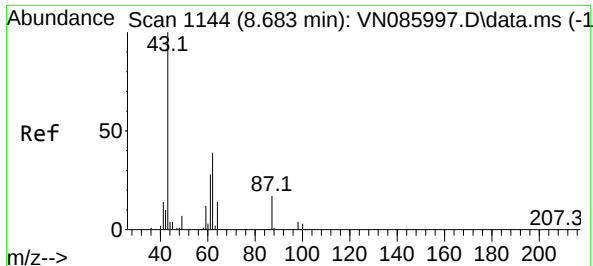
Tgt Ion:117 Resp: 17954
Ion Ratio Lower Upper
117 100
119 5.6 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.251 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 62 Resp: 803
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

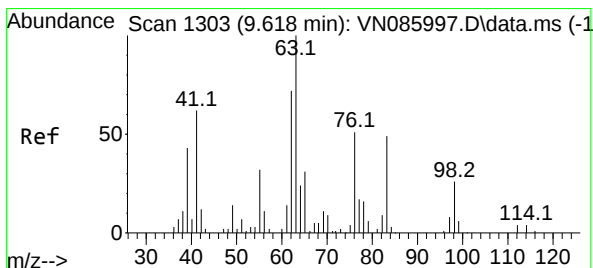
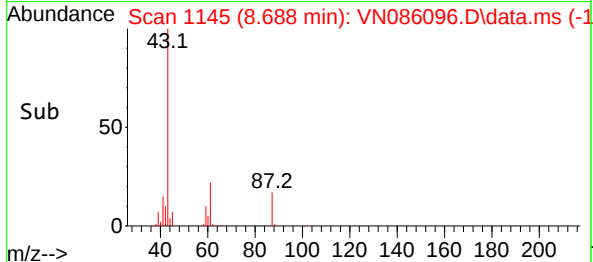
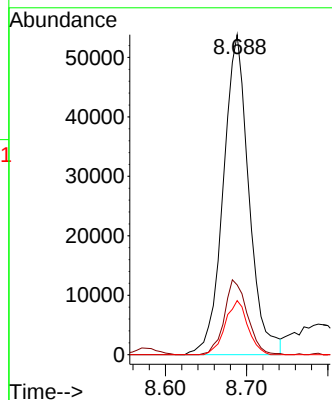
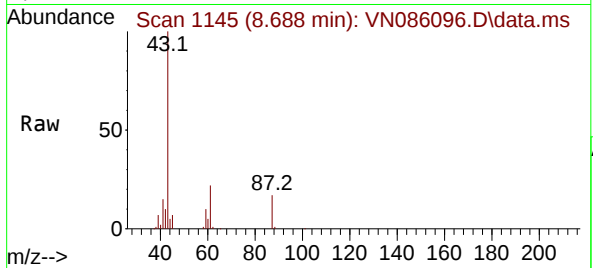




#43
Isopropyl Acetate
Concen: 22.069 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

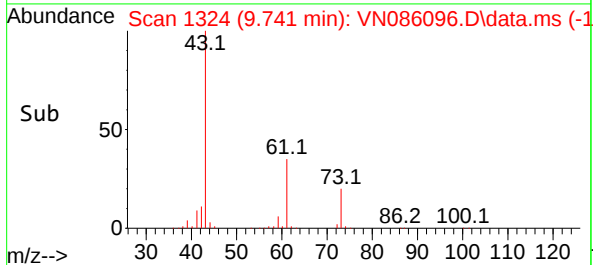
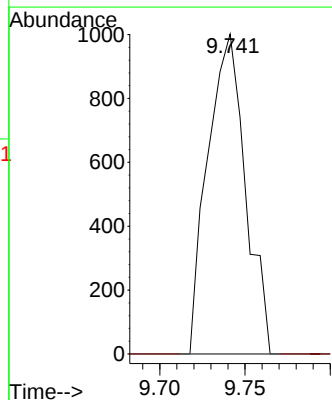
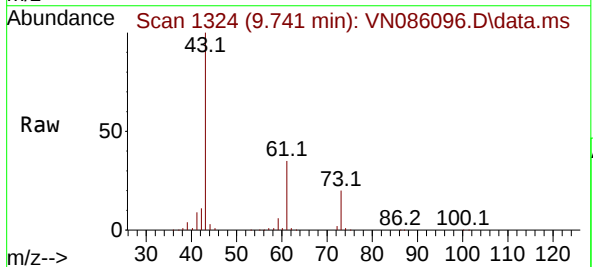
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

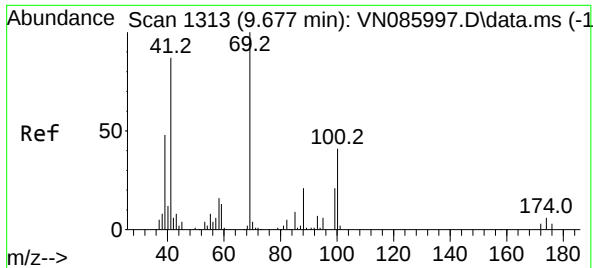
Tgt Ion: 43 Resp: 118196
Ion Ratio Lower Upper
43 100
61 21.0 25.0 37.6#
87 14.9 13.0 19.4



#45
1,2-Dichloropropane
Concen: 0.738 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 63 Resp: 1543
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

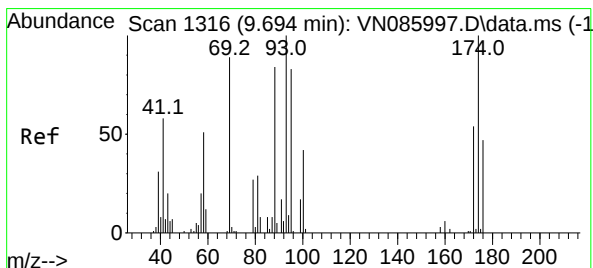
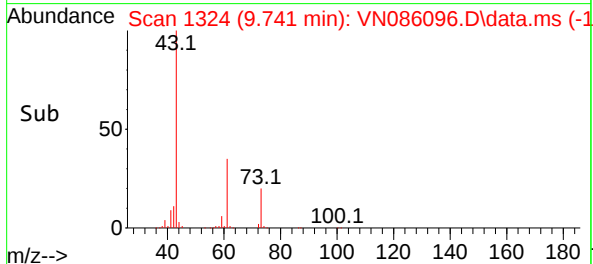
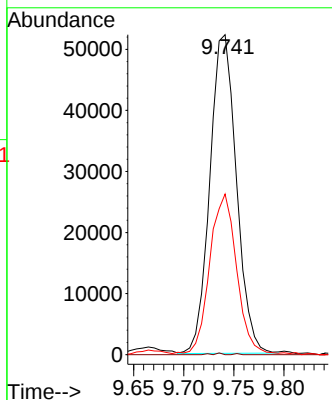
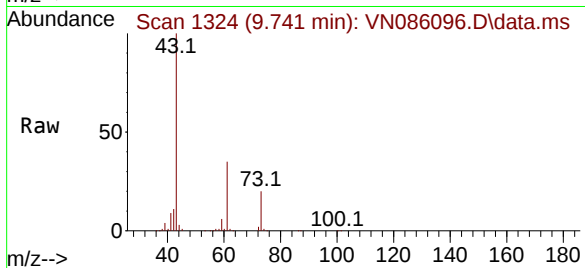




#48
Methyl methacrylate
Concen: 54.487 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

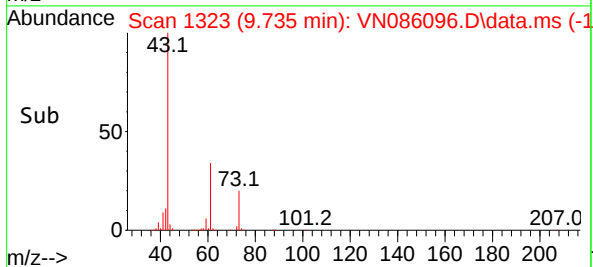
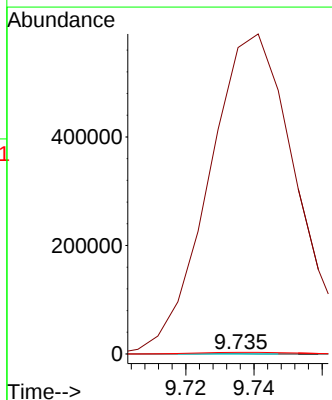
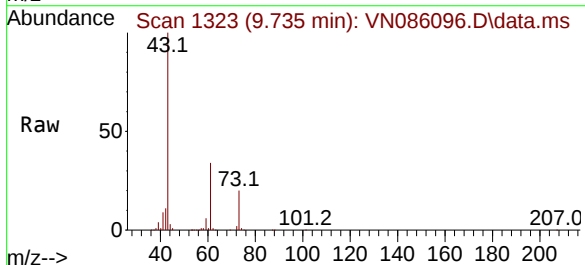
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

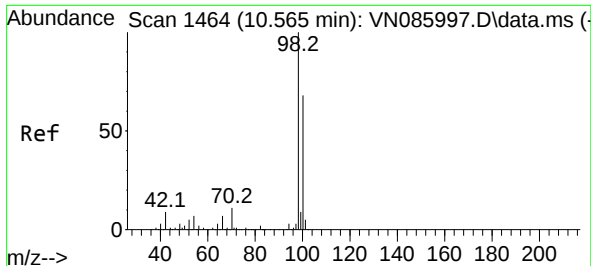
Tgt Ion: 41 Resp: 96299
Ion Ratio Lower Upper
41 100
69 0.2 83.1 124.7#
39 51.7 45.6 68.4



#49
1,4-Dioxane
Concen: 3.590 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.041 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 88 Resp: 150
Ion Ratio Lower Upper
88 100
43 704917.3 21.7 32.5#
58 4160.7 50.4 75.6#

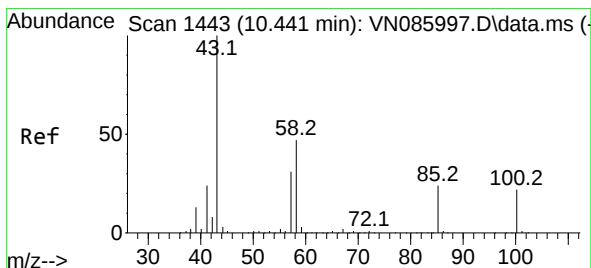
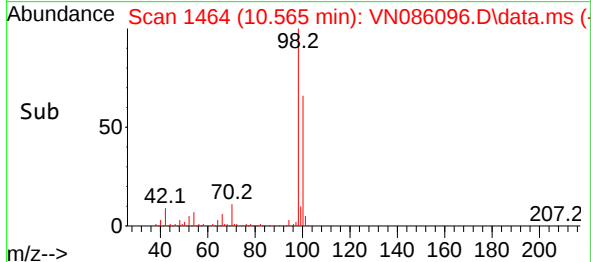
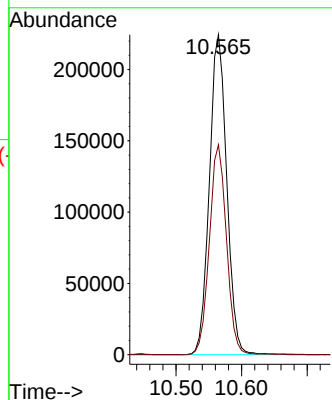
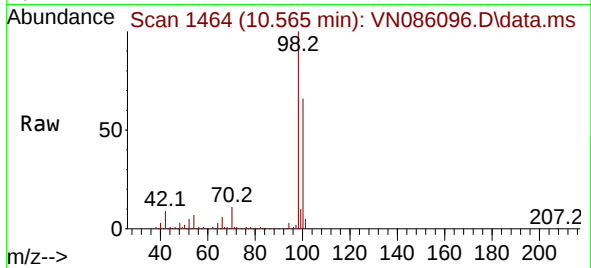




#50
Toluene-d8
Concen: 51.118 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

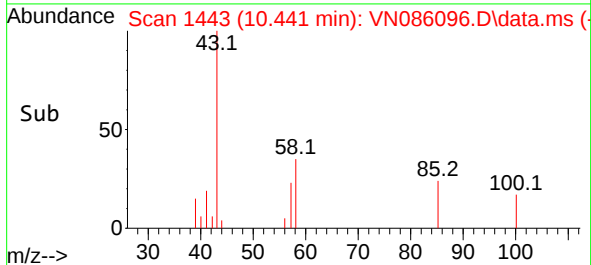
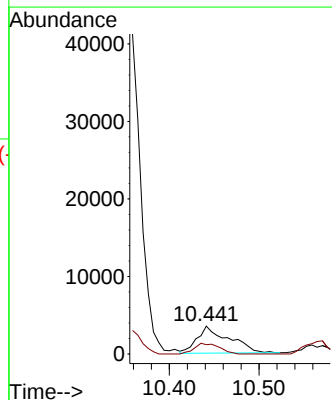
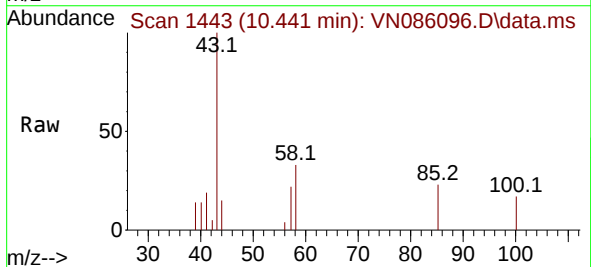
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

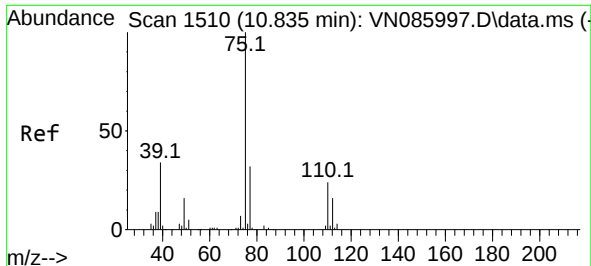
Tgt Ion: 98 Resp: 412778
Ion Ratio Lower Upper
98 100
100 64.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 3.610 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 43 Resp: 8526
Ion Ratio Lower Upper
43 100
58 30.8 37.4 56.0#

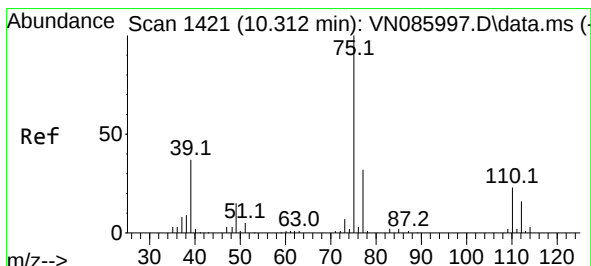
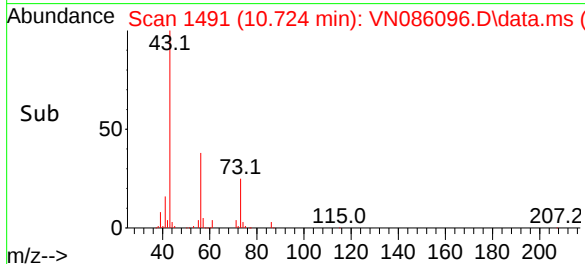
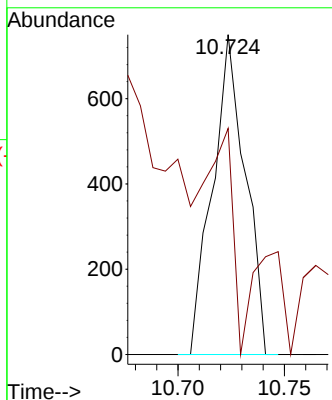
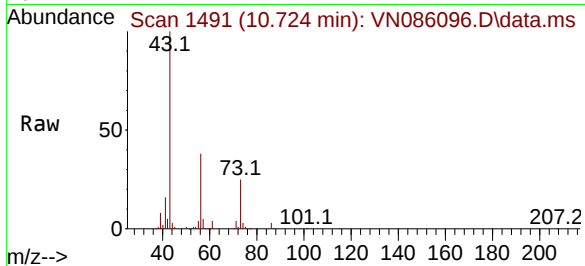




#53
t-1,3-Dichloropropene
Concen: 0.240 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

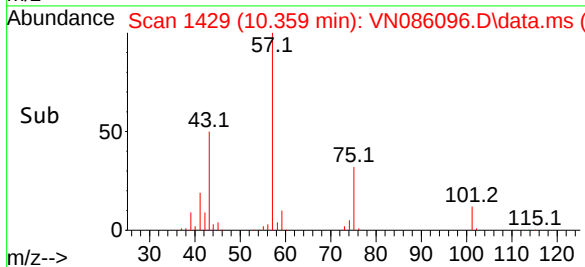
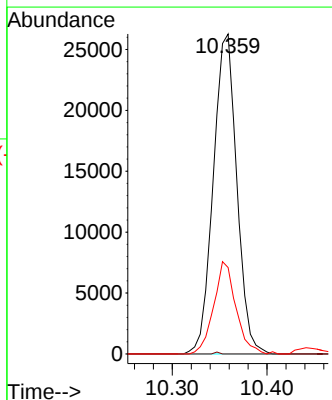
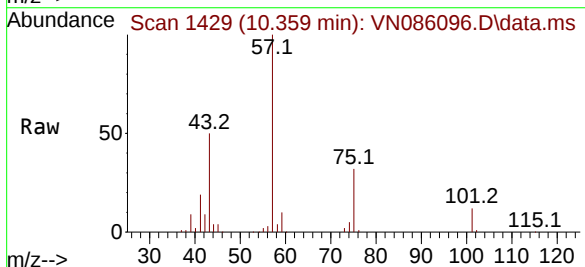
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

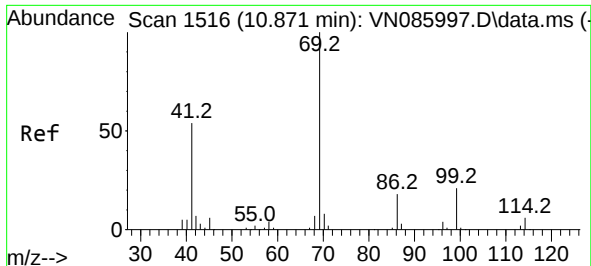
Tgt Ion: 75 Resp: 800
Ion Ratio Lower Upper
75 100
77 38.5 25.3 37.9#



#54
cis-1,3-Dichloropropene
Concen: 12.876 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 75 Resp: 45359
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 27.0 29.6 44.4#

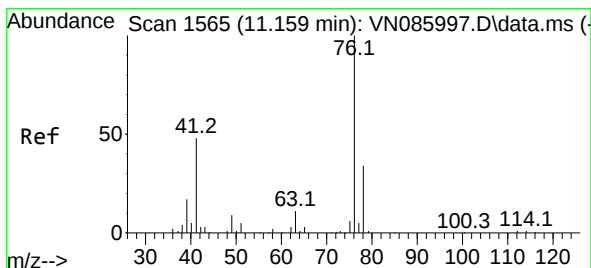
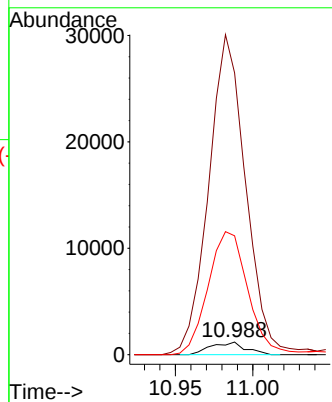
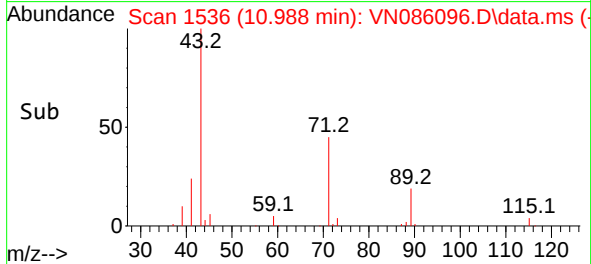
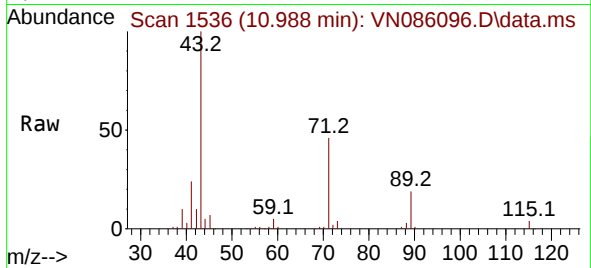




#56
Ethyl methacrylate
Concen: 0.862 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.117 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

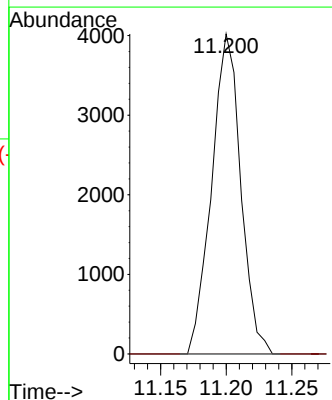
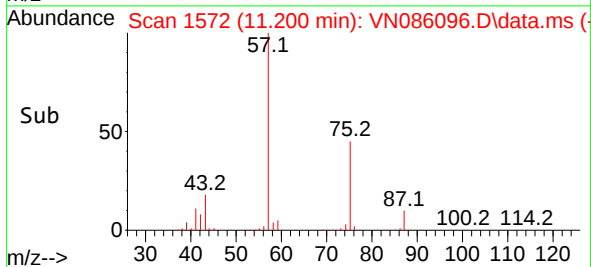
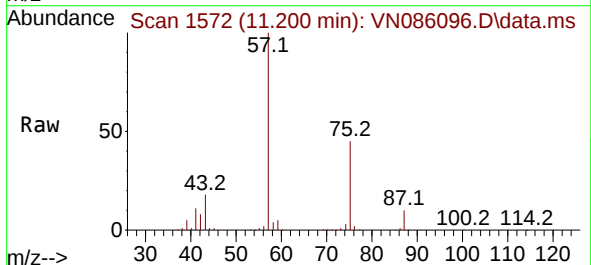
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

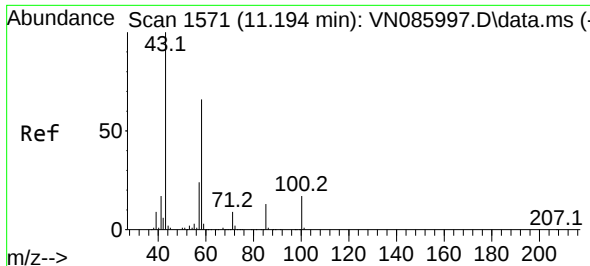
Tgt Ion: 69 Resp: 1833
Ion Ratio Lower Upper
69 100
41 2736.9 41.6 62.4#
39 1124.9 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.697 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 76 Resp: 6209
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

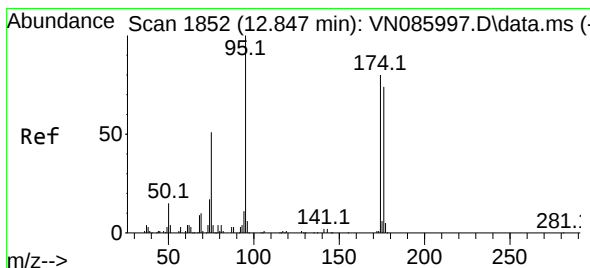
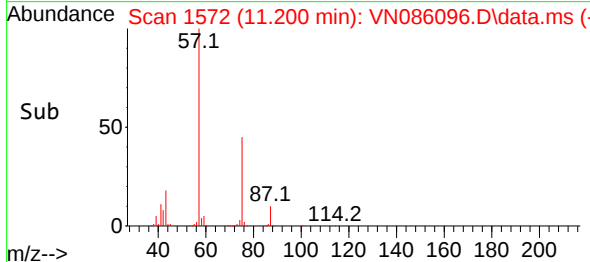
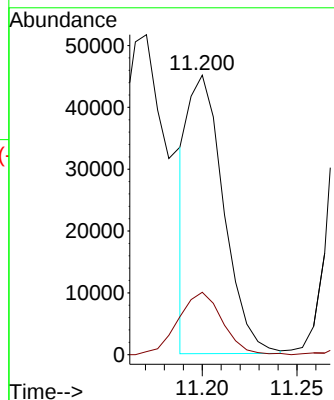
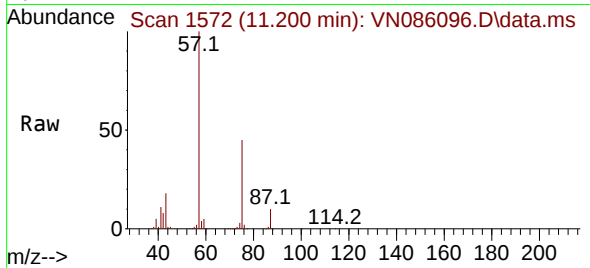




#59
2-Hexanone
Concen: 34.256 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

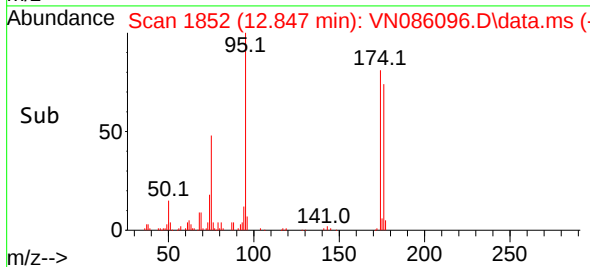
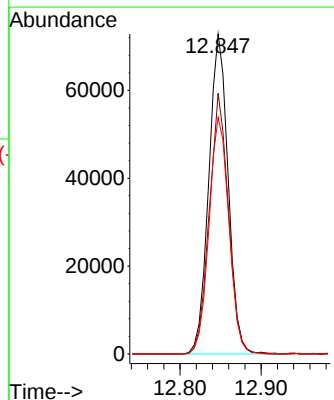
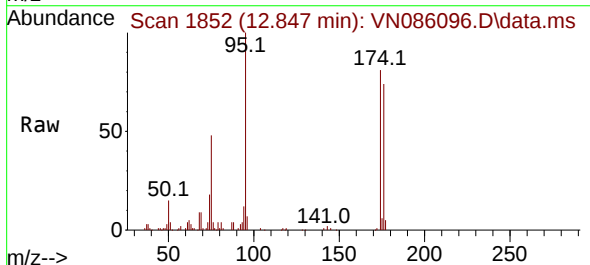
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

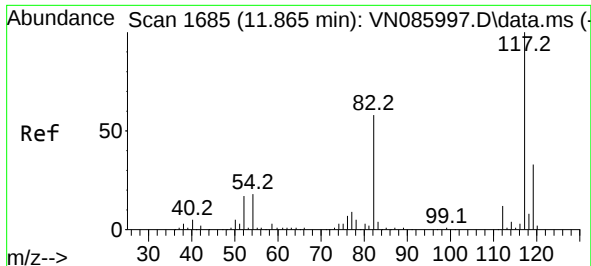
Tgt Ion: 43 Resp: 58946
Ion Ratio Lower Upper
43 100
58 27.9 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 41.828 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 95 Resp: 120455
Ion Ratio Lower Upper
95 100
174 80.7 0.0 156.8
176 75.9 0.0 152.2

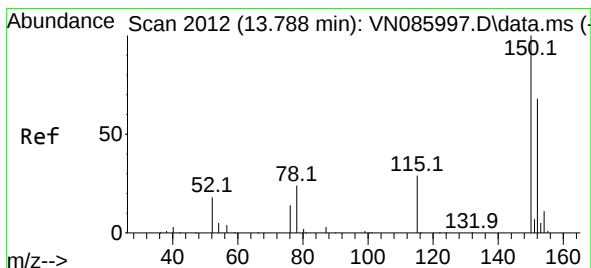
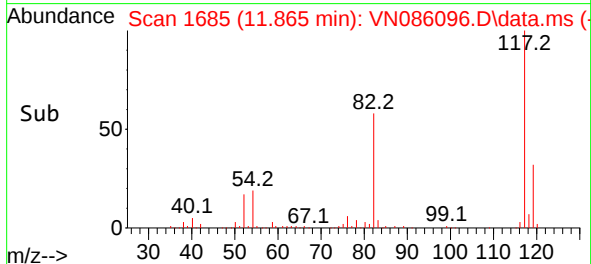
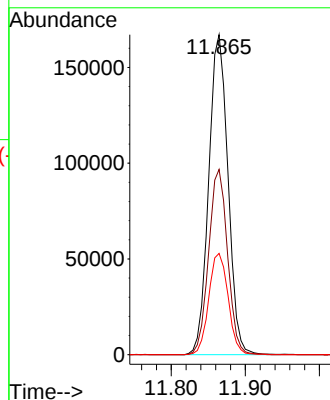
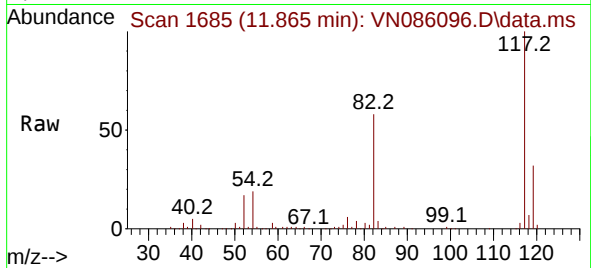




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

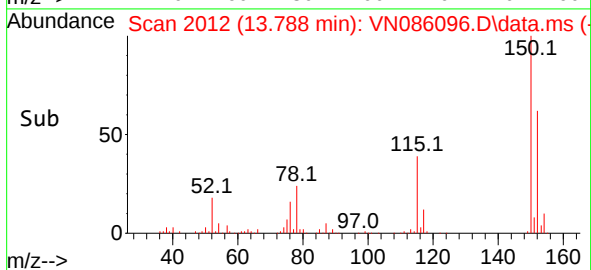
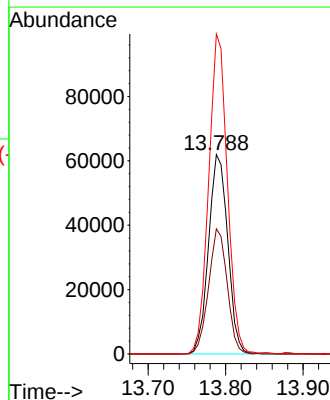
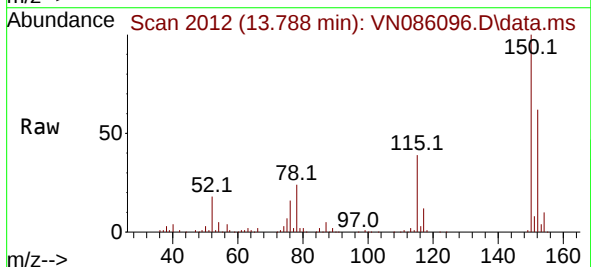
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

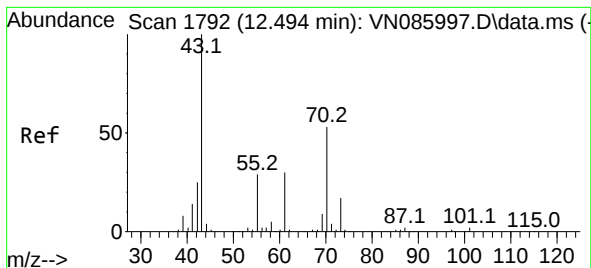
Tgt Ion:117 Resp: 301692
Ion Ratio Lower Upper
117 100
82 57.9 46.7 70.1
119 31.6 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion:152 Resp: 106726
Ion Ratio Lower Upper
152 100
115 60.7 31.1 93.2
150 156.0 0.0 359.6





#74

N-amy1 acetate

Concen: 0.324 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN086096.D

Acq: 25 Mar 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#01

Tgt Ion: 43 Resp: 789

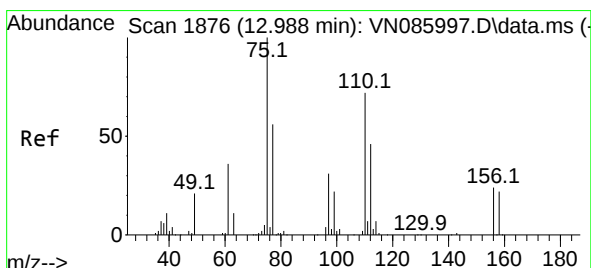
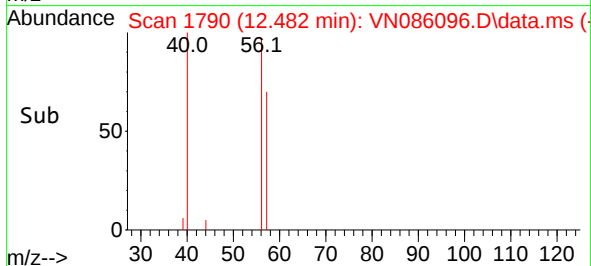
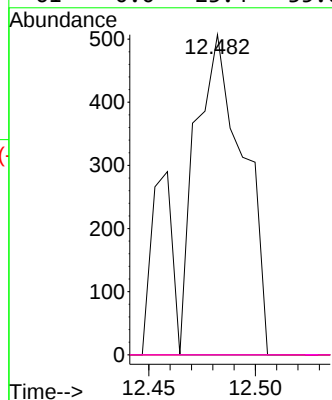
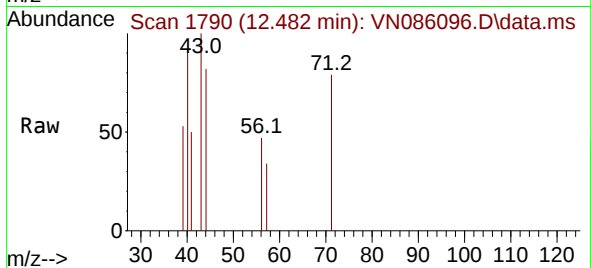
Ion Ratio Lower Upper

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: 24.204 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086096.D

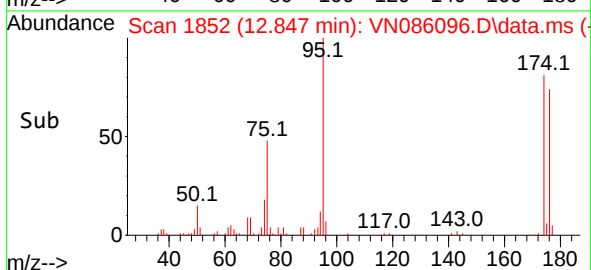
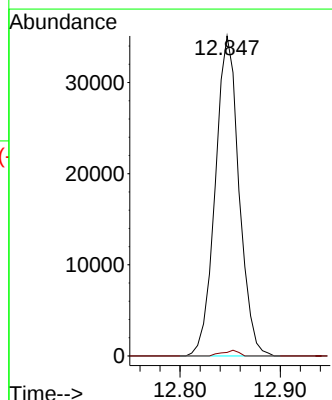
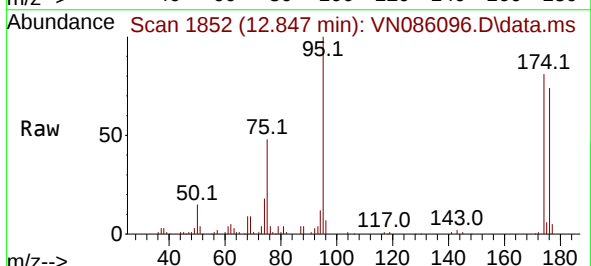
Acq: 25 Mar 2025 13:28

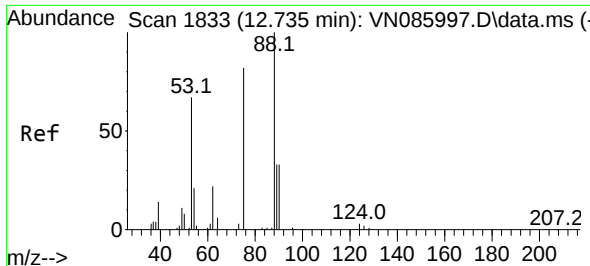
Tgt Ion: 75 Resp: 57832

Ion Ratio Lower Upper

75 100

77 1.2 83.7 251.0#

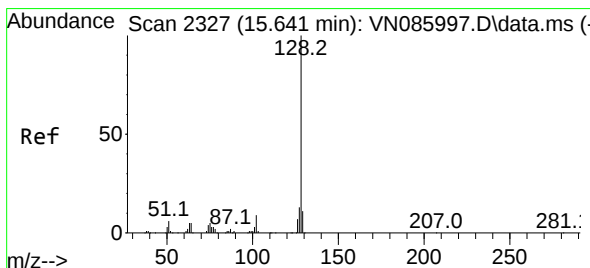
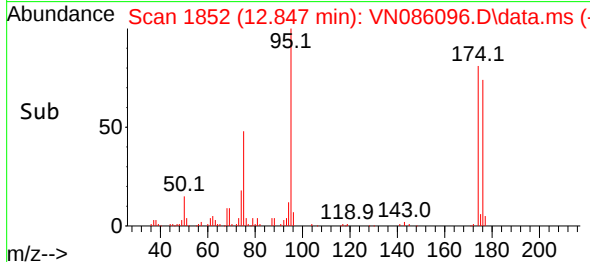
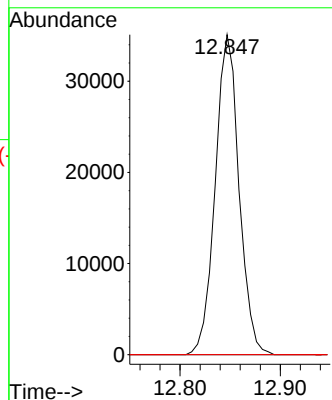
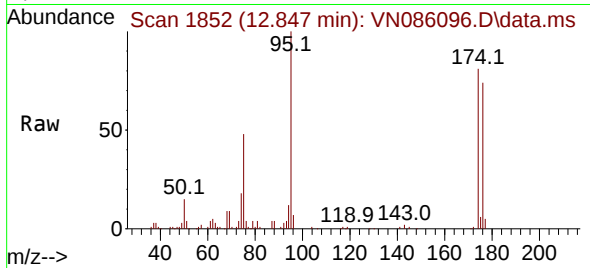




#81
trans-1,4-Dichloro-2-butene
Concen: 63.990 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#01

Tgt Ion: 75 Resp: 57832
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 0.269 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086096.D
Acq: 25 Mar 2025 13:28

Tgt Ion: 128 Resp: 1428
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 3.9 9.0 13.6#

