

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031325\
 Data File : VN085976.D
 Acq On : 13 Mar 2025 13:24
 Operator : JC\MD
 Sample : PB167104ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167104ZHE#01

Quant Time: Mar 14 00:28:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

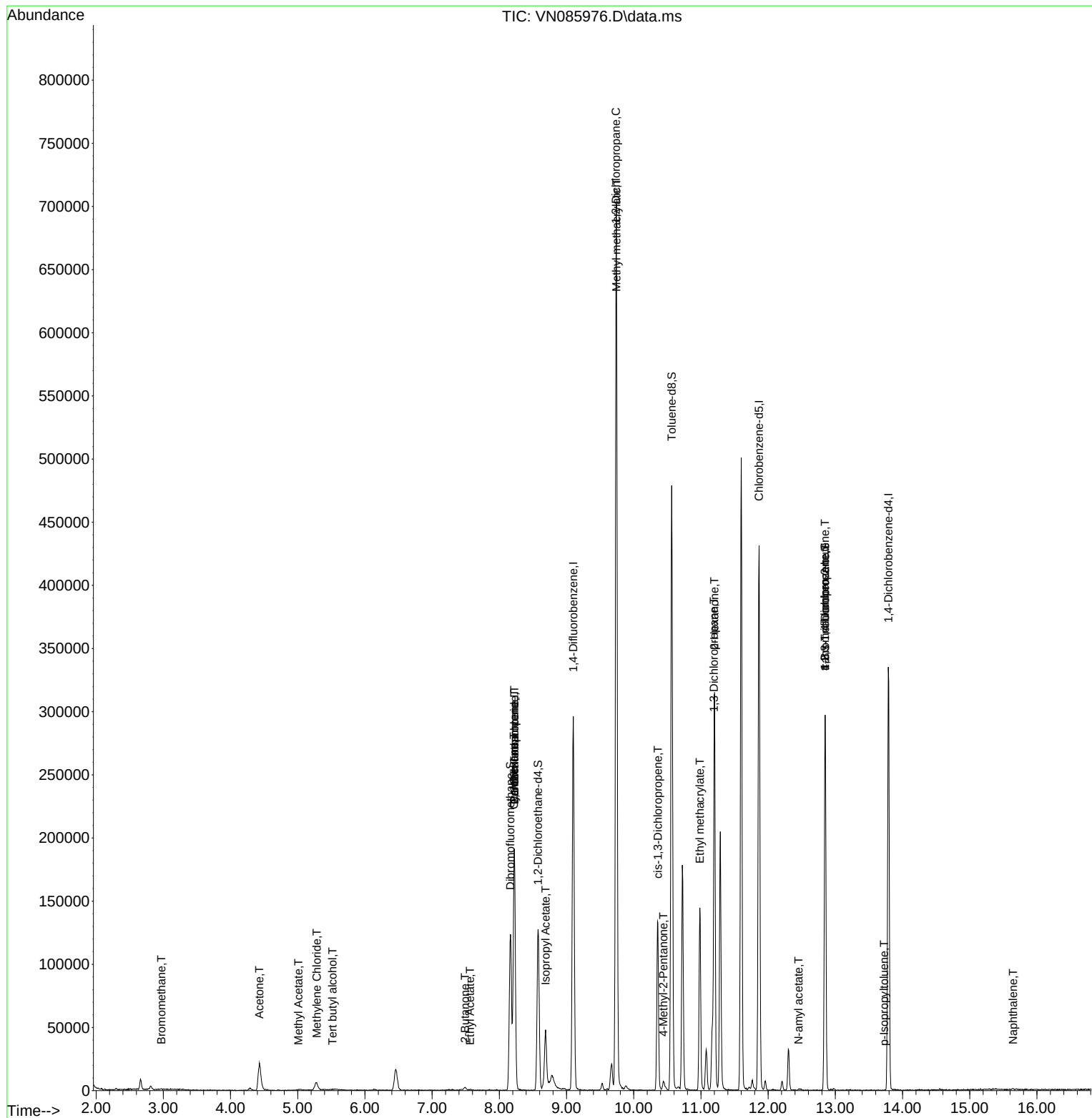
Internal Standards						
1) Pentafluorobenzene	8.224	168	137719	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	254569	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253553	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	96515	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111282	62.326	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.660%			
35) Dibromofluoromethane	8.165	113	90827	54.525	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.060%			
50) Toluene-d8	10.565	98	336919	55.592	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.180%			
62) 4-Bromofluorobenzene	12.847	95	104527	52.346	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.700%			
Target Compounds						Qvalue
5) Bromomethane	2.971	94	312	0.245	ug/l #	76
11) Tert butyl alcohol	5.518	59	539	2.454	ug/l #	72
16) Acetone	4.430	43	40067	70.920	ug/l	97
18) Methyl Acetate	5.012	43	974	0.501	ug/l #	47
20) Methylene Chloride	5.283	84	5601	3.083	ug/l #	81
25) 2-Butanone	7.489	43	4150	4.993	ug/l	95
31) Cyclohexane	8.218	56	3064	1.201	ug/l #	24
36) 1,1-Dichloropropene	8.224	75	11109	4.712	ug/l #	50
37) Ethyl Acetate	7.565	43	1335	0.688	ug/l #	66
38) Carbon Tetrachloride	8.224	117	15129	5.401	ug/l #	19
43) Isopropyl Acetate	8.688	43	53147	15.229	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	1013	0.555	ug/l #	43
48) Methyl methacrylate	9.741	41	62747	43.549	ug/l #	37
51) 4-Methyl-2-Pentanone	10.441	43	7320	3.913	ug/l #	76
54) cis-1,3-Dichloropropene	10.359	75	25382	9.095	ug/l #	63
56) Ethyl methacrylate	10.982	69	933	0.871	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	3610	1.228	ug/l #	42
59) 2-Hexanone	11.200	43	38547	29.955	ug/l #	53
74) N-amyl acetate	12.453	43	1132	0.485	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	53292	24.857	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53292	72.527	ug/l #	13
86) p-Isopropyltoluene	13.723	119	85	0.641	ug/l #	50
95) Naphthalene	15.647	128	1346	0.320	ug/l #	69

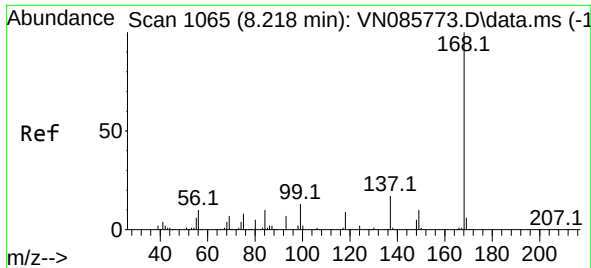
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031325\
Data File : VN085976.D
Acq On : 13 Mar 2025 13:24
Operator : JC\MD
Sample : PB167104ZHE#01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

Quant Time: Mar 14 00:28:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

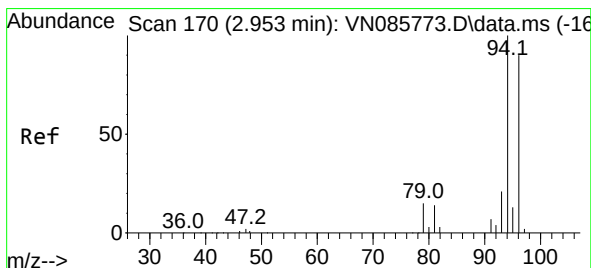
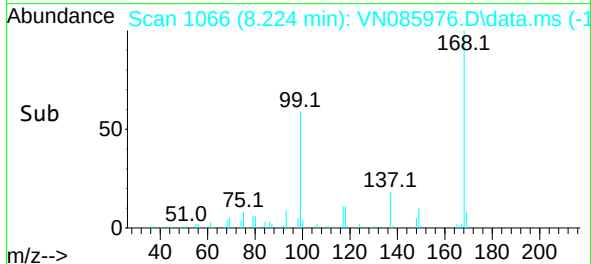
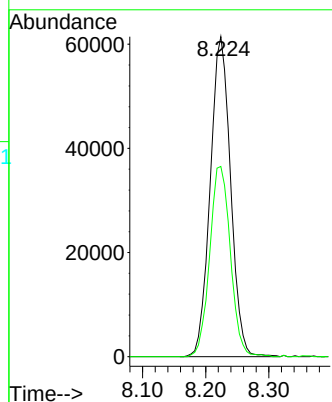
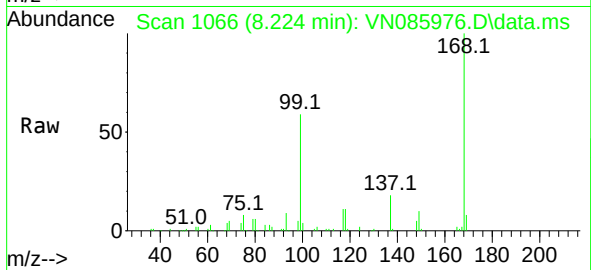




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

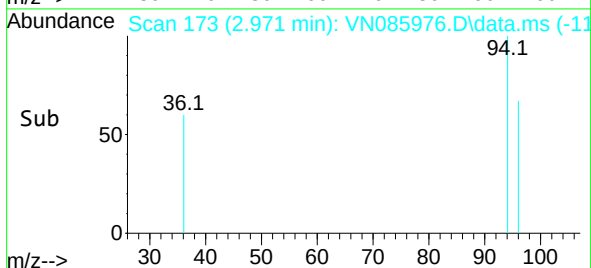
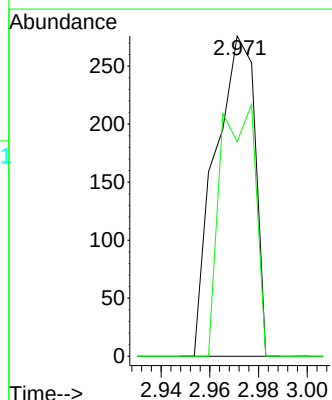
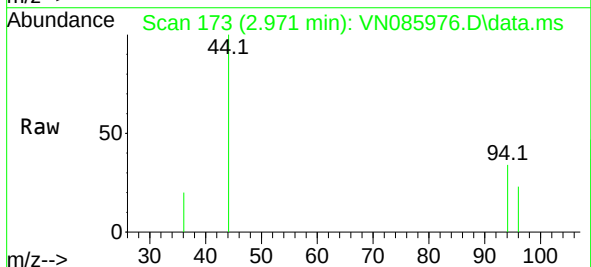
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

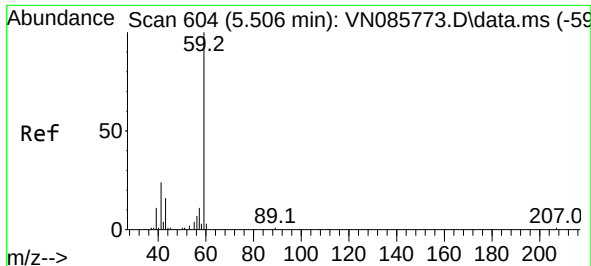
Tgt Ion:168 Resp: 137719
Ion Ratio Lower Upper
168 100
99 59.5 47.9 71.9



#5
Bromomethane
Concen: 0.245 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 94 Resp: 312
Ion Ratio Lower Upper
94 100
96 67.0 71.7 107.5#

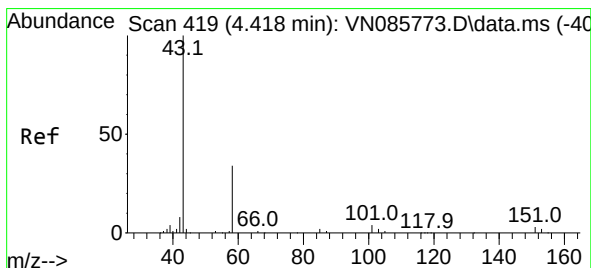
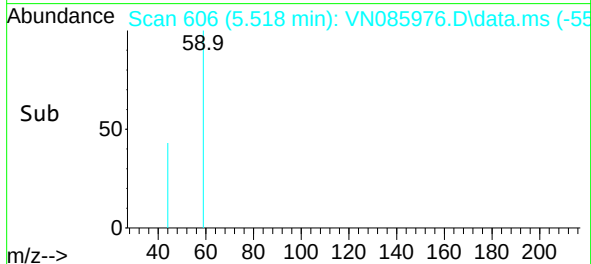
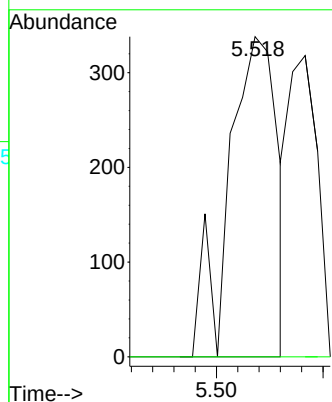
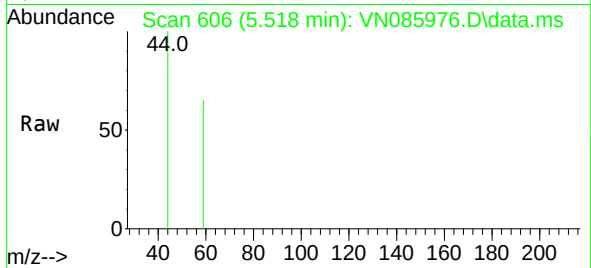




#11
Tert butyl alcohol
Concen: 2.454 ug/l
RT: 5.518 min Scan# 604
Delta R.T. 0.012 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

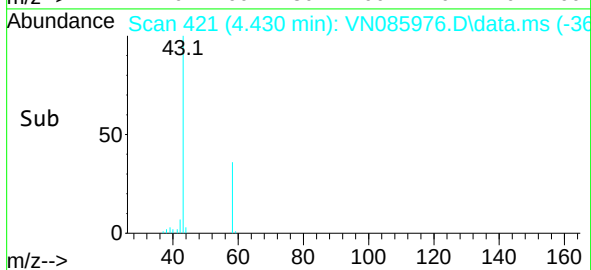
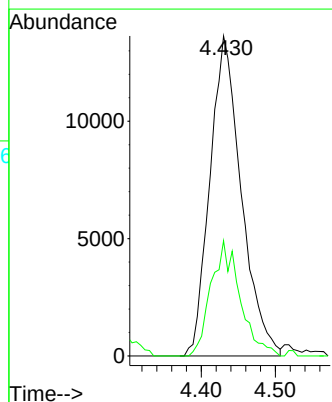
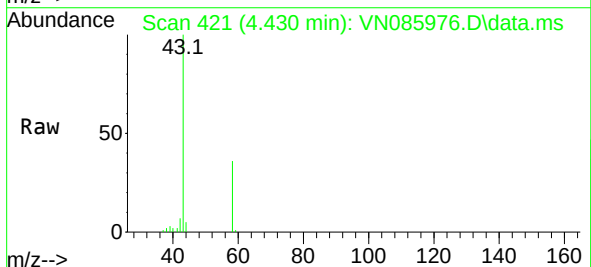
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

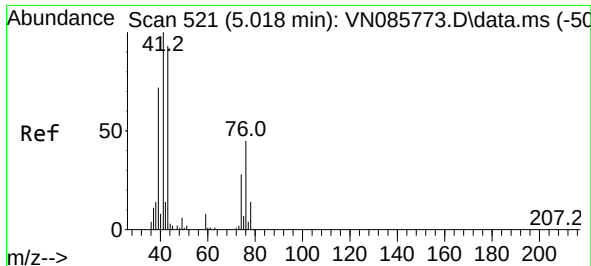
Tgt Ion: 59 Resp: 539
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 70.920 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 43 Resp: 40067
Ion Ratio Lower Upper
43 100
58 36.0 27.5 41.3

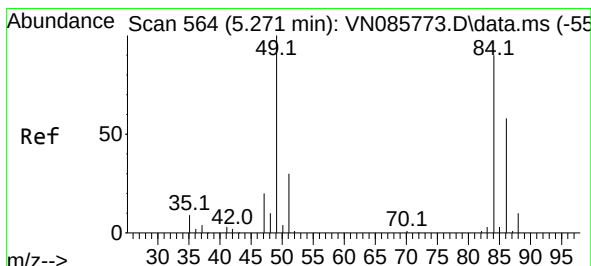
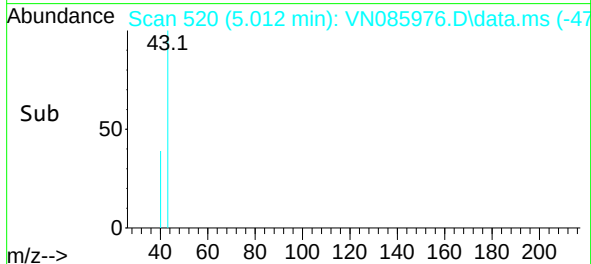
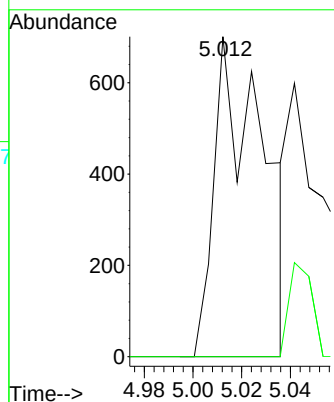
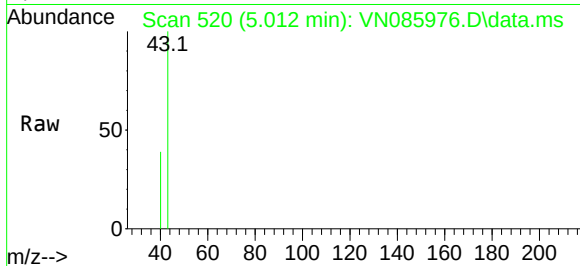




#18
Methyl Acetate
Concen: 0.501 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

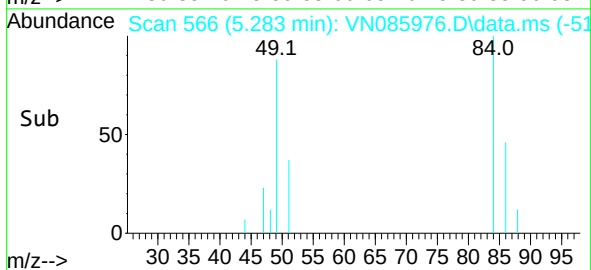
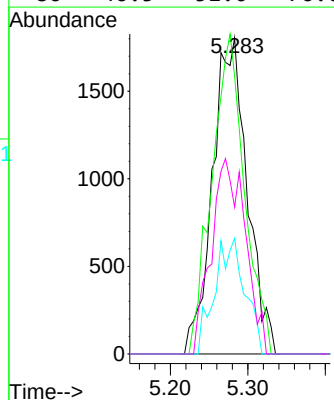
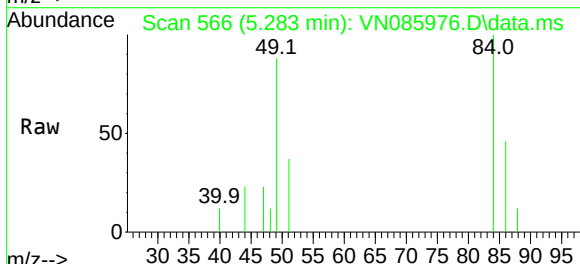
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

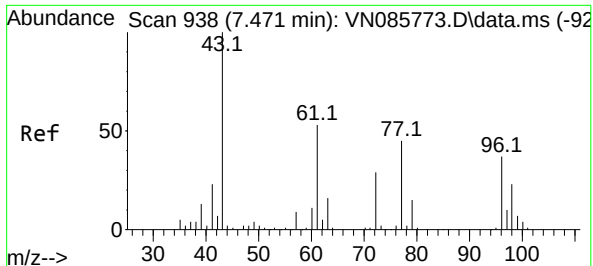
Tgt Ion: 43 Resp: 974
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#



#20
Methylene Chloride
Concen: 3.083 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 84 Resp: 5601
Ion Ratio Lower Upper
84 100
49 87.9 88.4 132.6#
51 36.6 26.6 40.0
86 46.5 51.0 76.6#

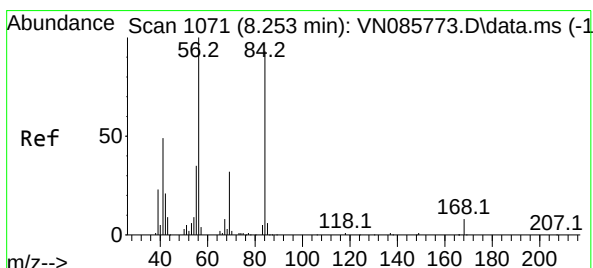
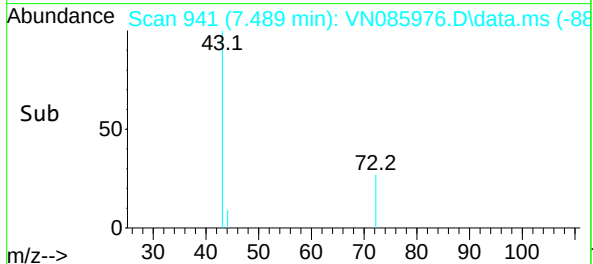
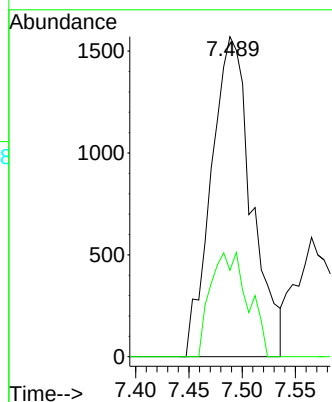
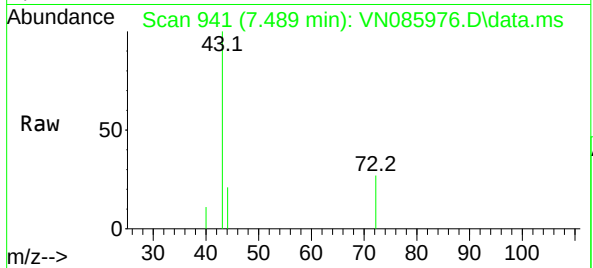




#25
2-Butanone
Concen: 4.993 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

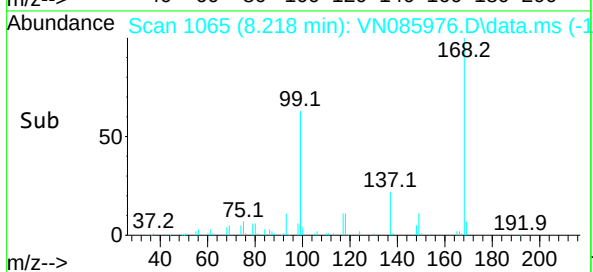
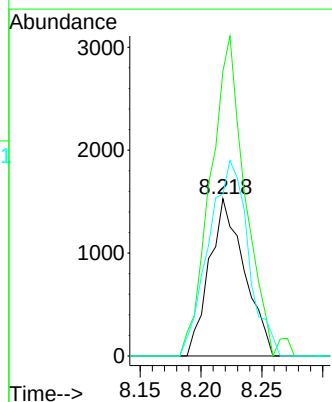
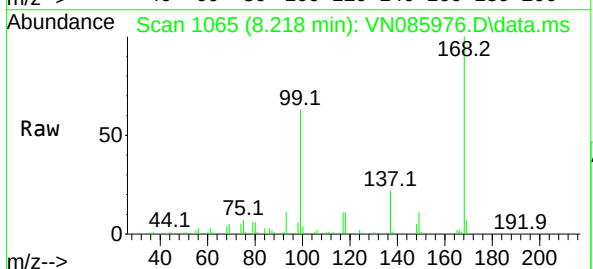
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

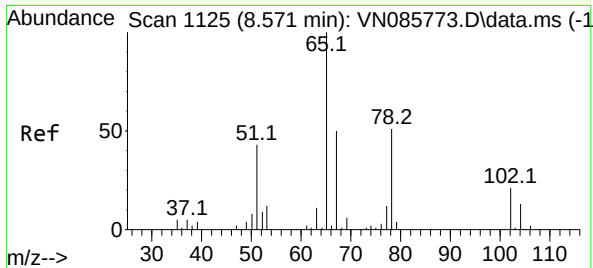
Tgt Ion: 43 Resp: 4150
Ion Ratio Lower Upper
43 100
72 27.0 23.6 35.4



#31
Cyclohexane
Concen: 1.201 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 56 Resp: 3064
Ion Ratio Lower Upper
56 100
69 181.0 25.8 38.6#
84 102.9 74.5 111.7

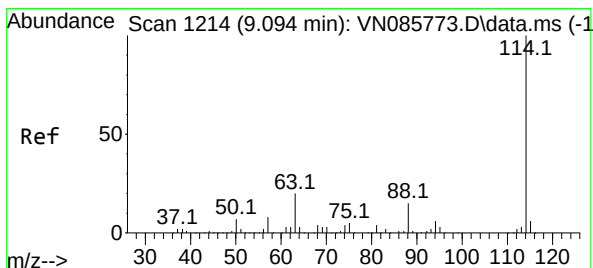
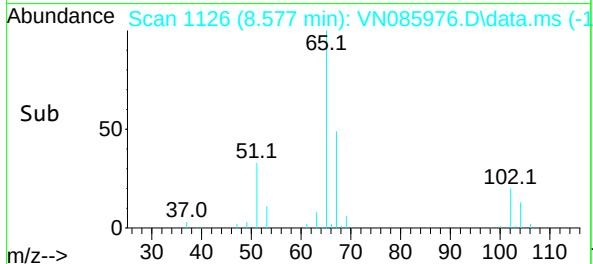
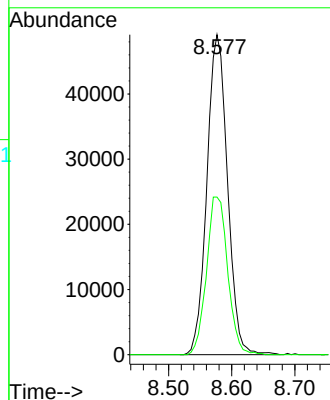
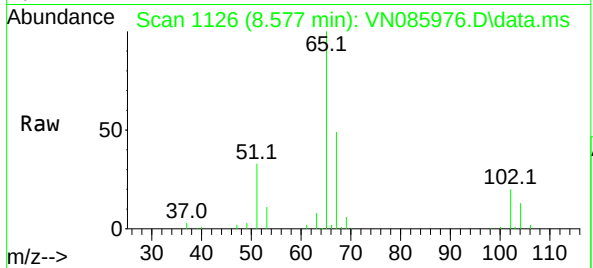




#33
 1,2-Dichloroethane-d4
 Concen: 62.326 ug/l
 RT: 8.577 min Scan# 1125
 Delta R.T. 0.006 min
 Lab File: VN085976.D
 Acq: 13 Mar 2025 13:24

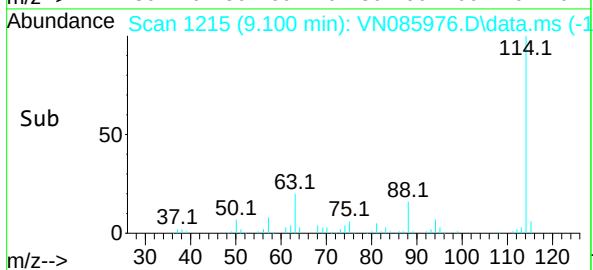
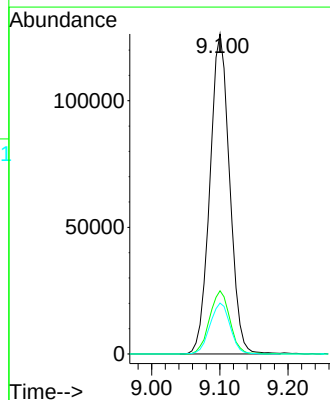
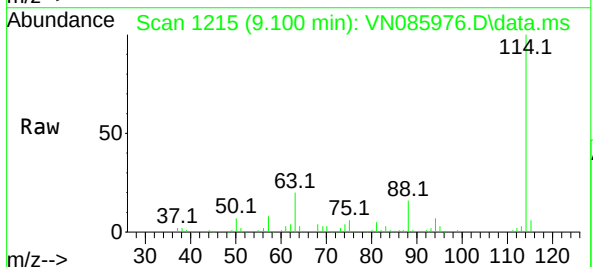
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167104ZHE#01

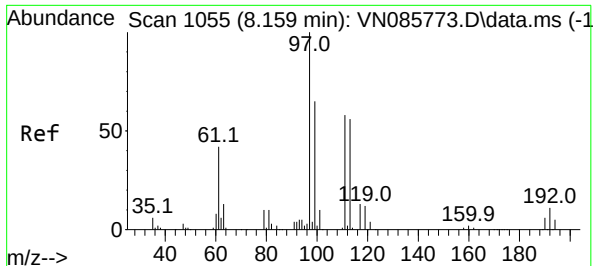
Tgt Ion: 65 Resp: 111282
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085976.D
 Acq: 13 Mar 2025 13:24

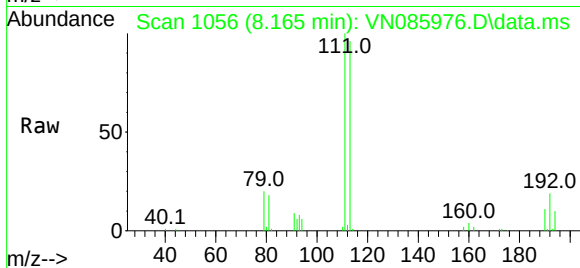
Tgt Ion: 114 Resp: 254569
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.2
 88 15.9 0.0 30.0



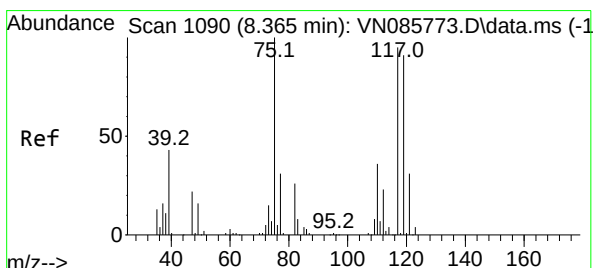
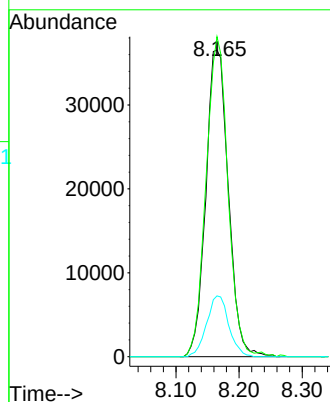
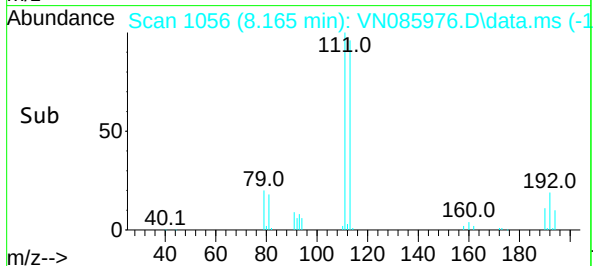


#35
Dibromofluoromethane
Concen: 54.525 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

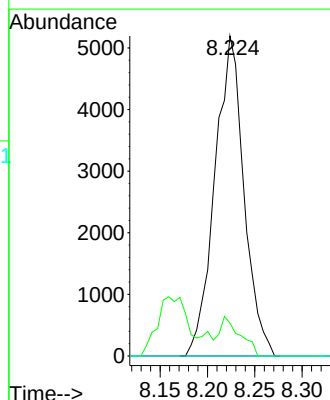
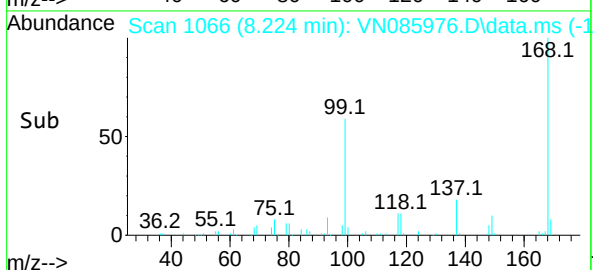
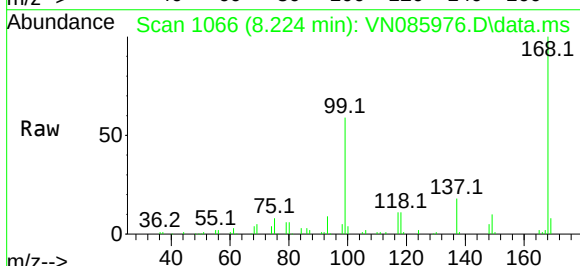


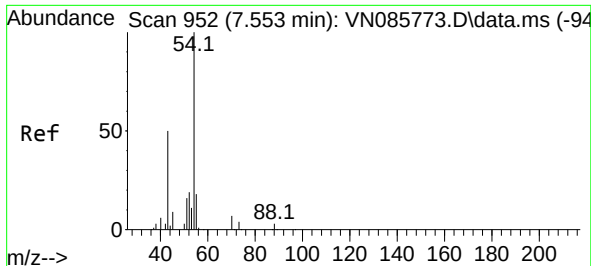
Tgt Ion:113 Resp: 90827
Ion Ratio Lower Upper
113 100
111 101.2 82.2 123.4
192 19.4 14.7 22.1



#36
1,1-Dichloropropene
Concen: 4.712 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 75 Resp: 11109
Ion Ratio Lower Upper
75 100
110 8.6 17.3 52.0#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 0.688 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN085976.D

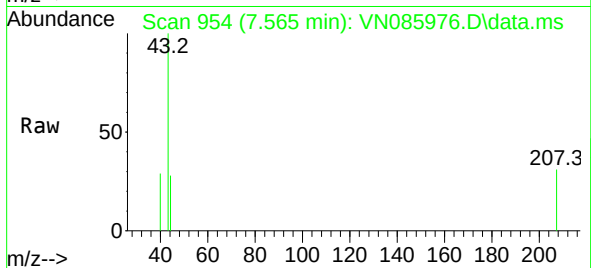
Acq: 13 Mar 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB167104ZHE#01



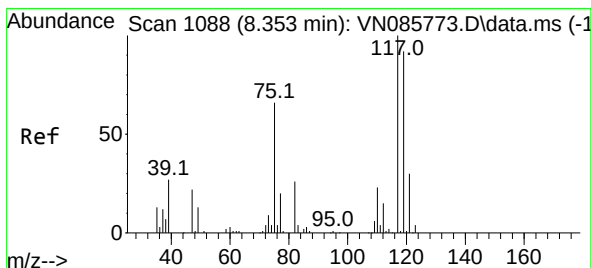
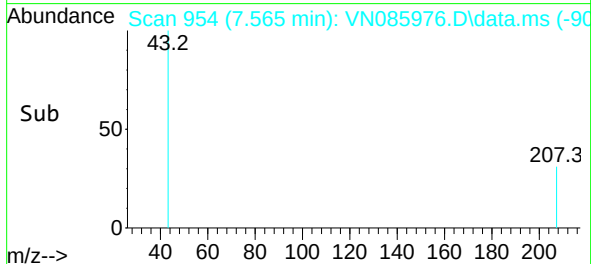
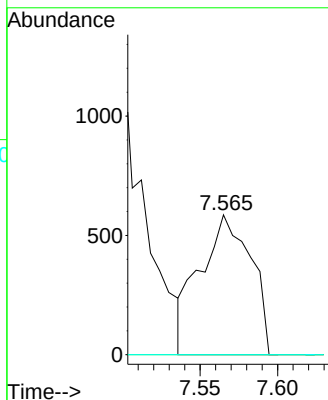
Tgt Ion: 43 Resp: 1335

Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

70 0.0 9.5 14.3#



#38

Carbon Tetrachloride

Concen: 5.401 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.129 min

Lab File: VN085976.D

Acq: 13 Mar 2025 13:24

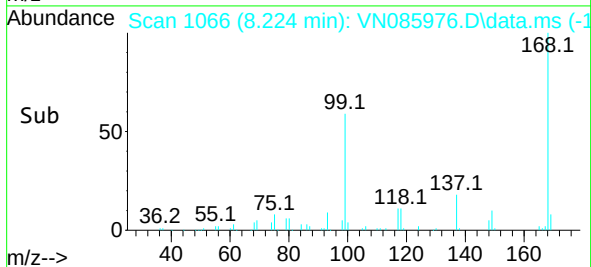
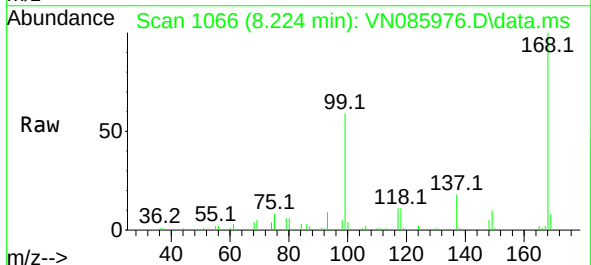
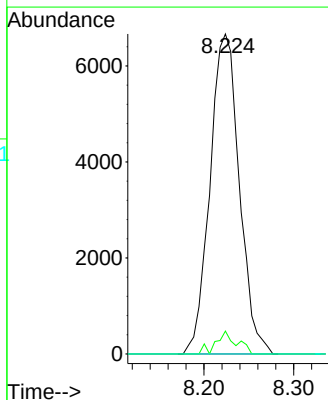
Tgt Ion: 117 Resp: 15129

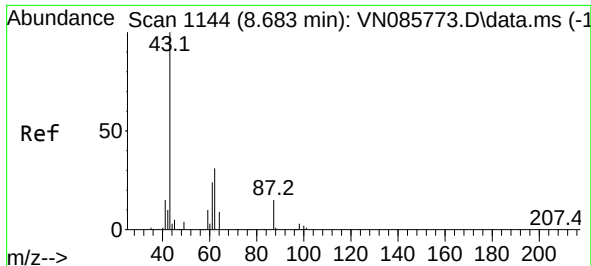
Ion Ratio Lower Upper

117 100

119 7.1 73.8 110.6#

121 0.0 24.3 36.5#

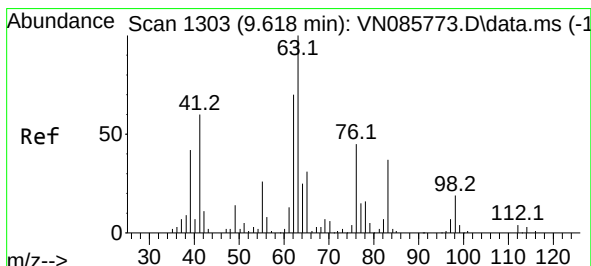
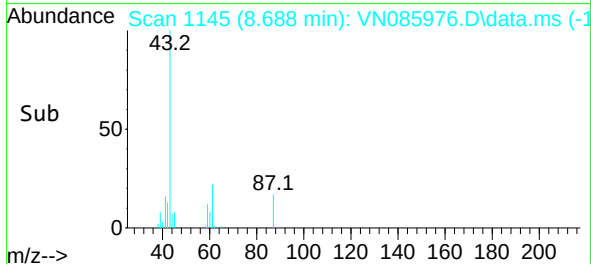
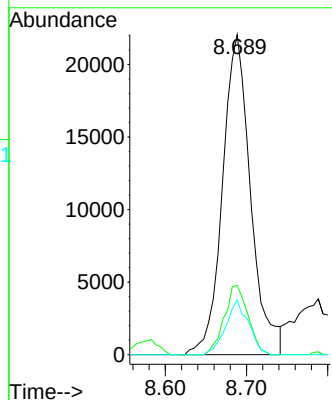
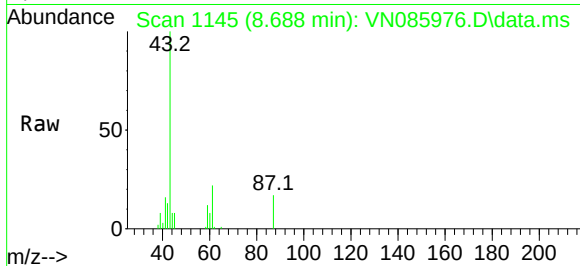




#43
Isopropyl Acetate
Concen: 15.229 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

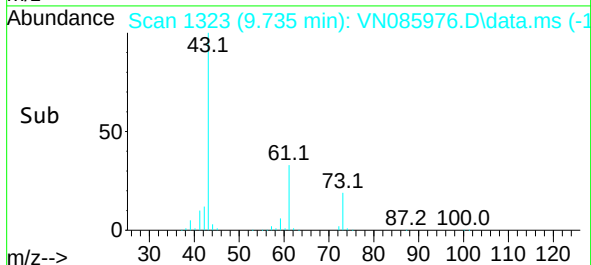
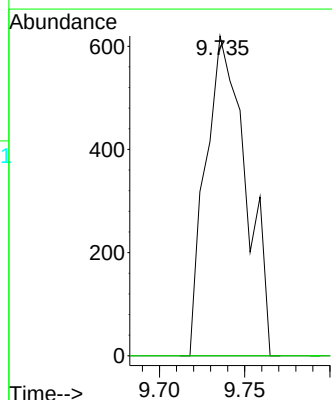
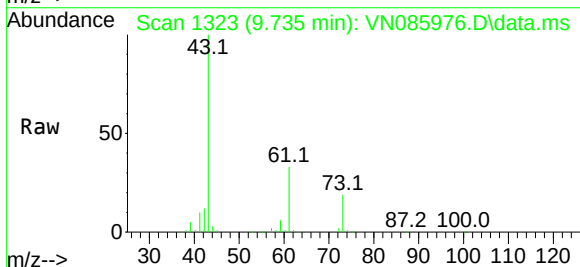
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

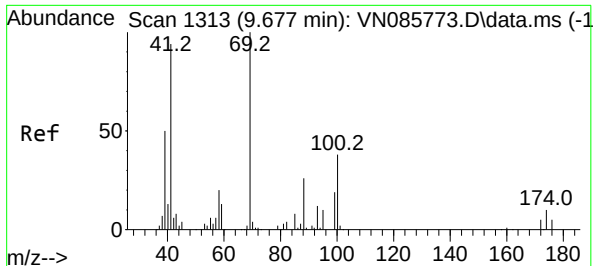
Tgt Ion: 43 Resp: 53147
Ion Ratio Lower Upper
43 100
61 18.3 22.6 34.0#
87 13.8 11.8 17.8



#45
1,2-Dichloropropane
Concen: 0.555 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 63 Resp: 1013
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#





#48

Methyl methacrylate

Concen: 43.549 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN085976.D

Acq: 13 Mar 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB167104ZHE#01

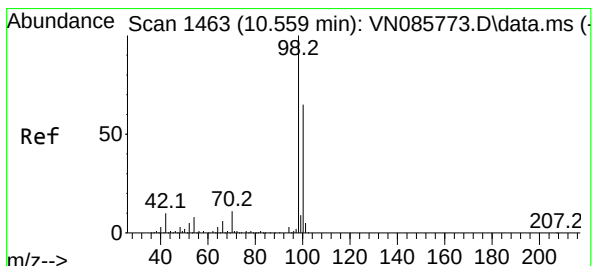
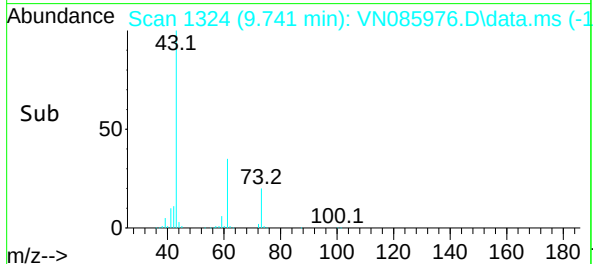
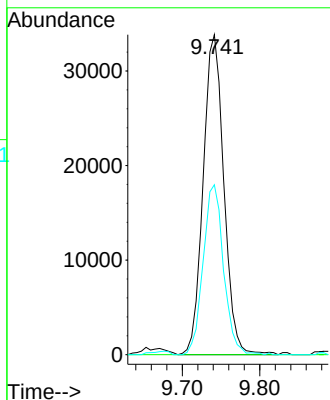
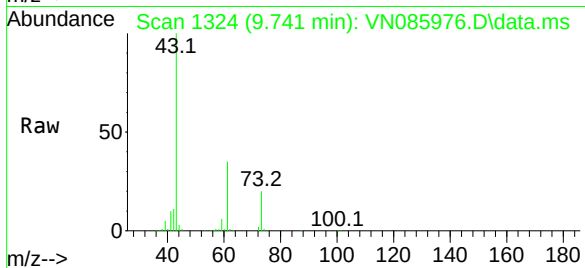
Tgt Ion: 41 Resp: 62747

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 52.5 42.3 63.5



#50

Toluene-d8

Concen: 55.592 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085976.D

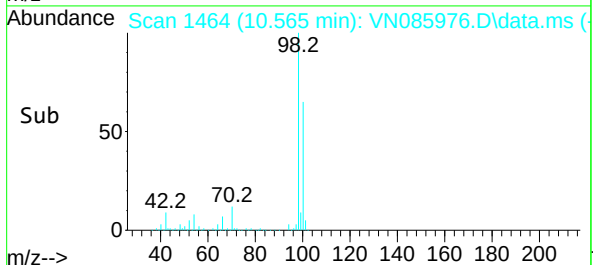
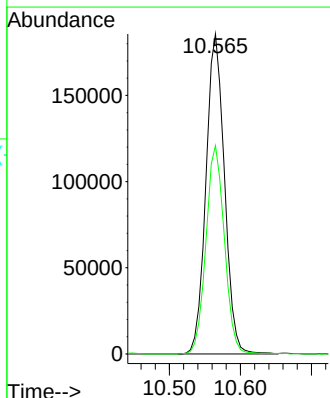
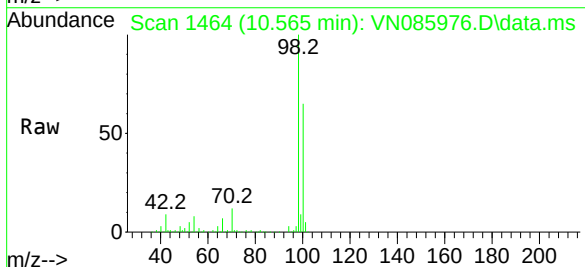
Acq: 13 Mar 2025 13:24

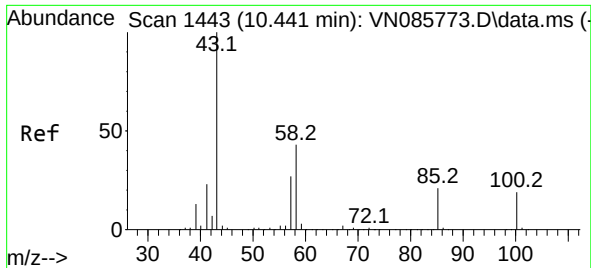
Tgt Ion: 98 Resp: 336919

Ion Ratio Lower Upper

98 100

100 64.9 52.1 78.1

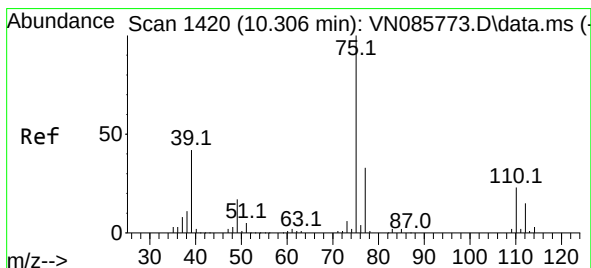
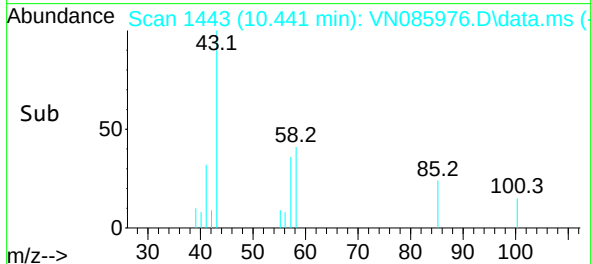
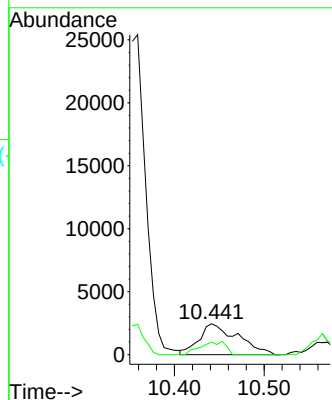
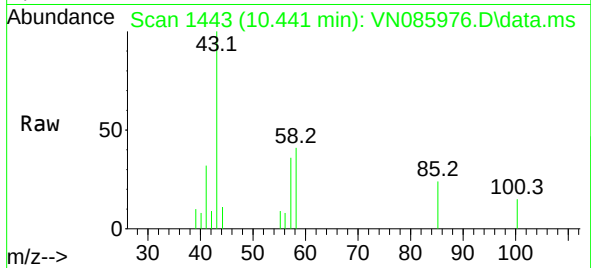




#51
4-Methyl-2-Pentanone
Concen: 3.913 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

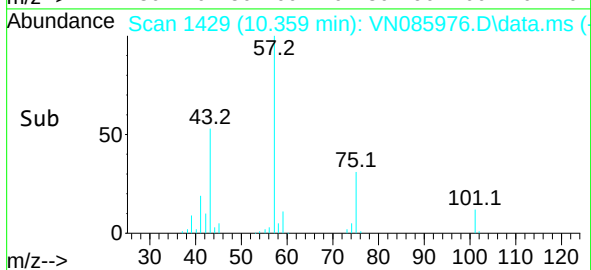
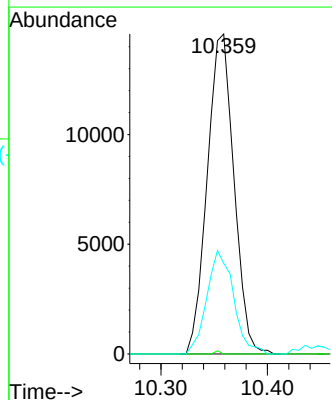
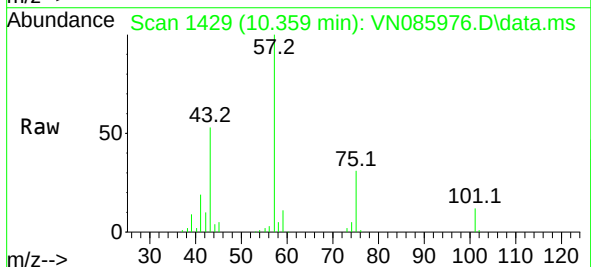
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

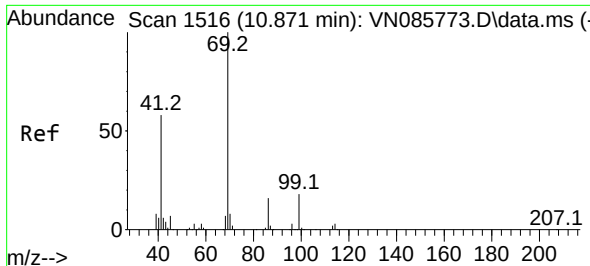
Tgt Ion: 43 Resp: 7320
Ion Ratio Lower Upper
43 100
58 27.7 34.6 52.0#



#54
cis-1,3-Dichloropropene
Concen: 9.095 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.053 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 75 Resp: 25382
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 28.4 33.4 50.0#

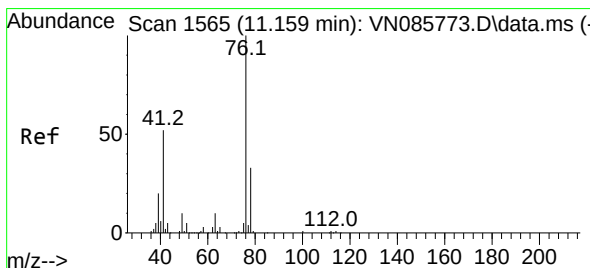
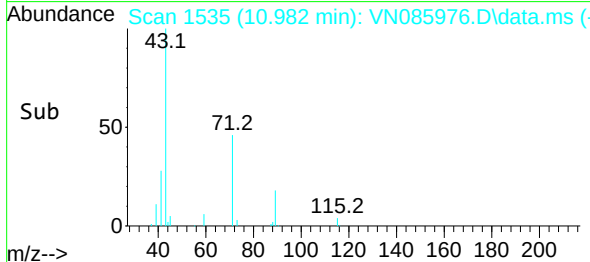
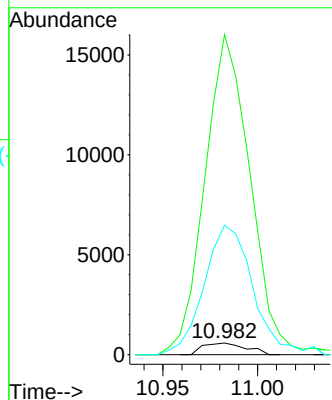
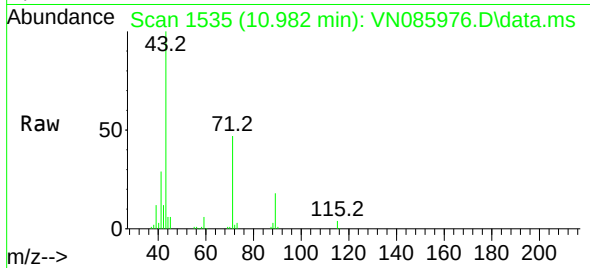




#56
Ethyl methacrylate
Concen: 0.871 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

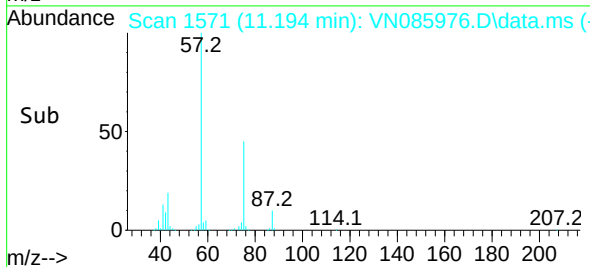
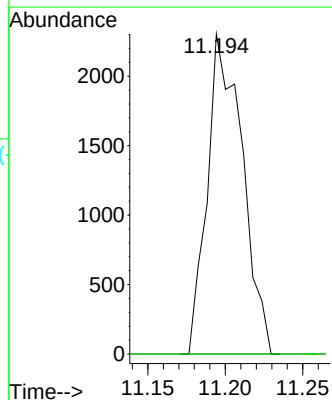
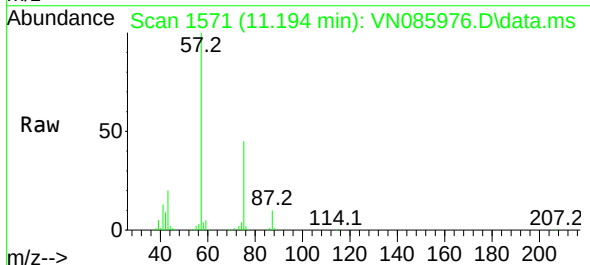
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

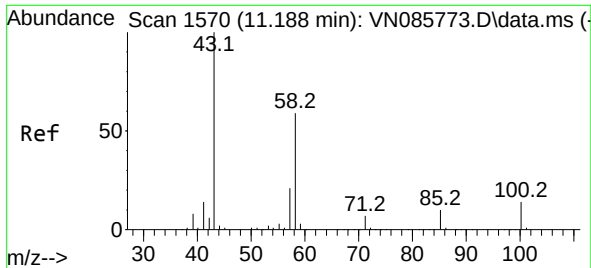
Tgt Ion: 69 Resp: 933
Ion Ratio Lower Upper
69 100
41 2871.5 46.0 69.0#
39 1250.5 22.0 33.0#



#57
1,3-Dichloropropane
Concen: 1.228 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 76 Resp: 3610
Ion Ratio Lower Upper
76 100
78 0.0 25.9 38.9#

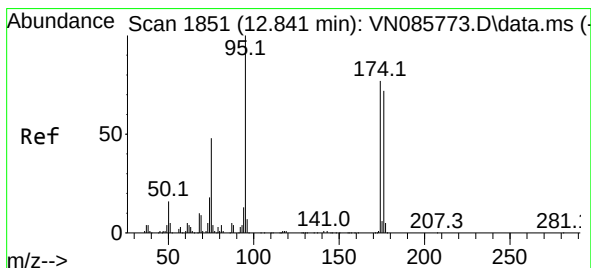
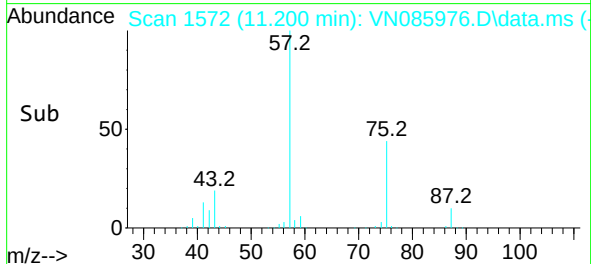
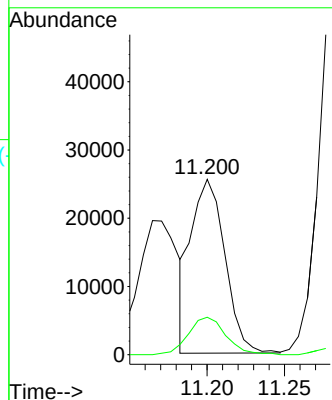
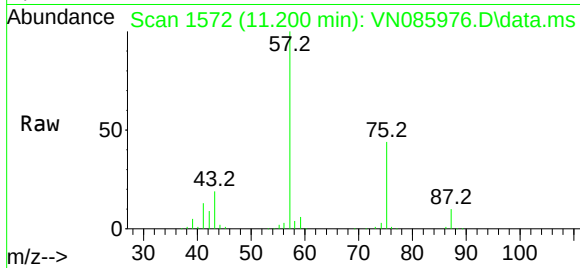




#59
2-Hexanone
Concen: 29.955 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

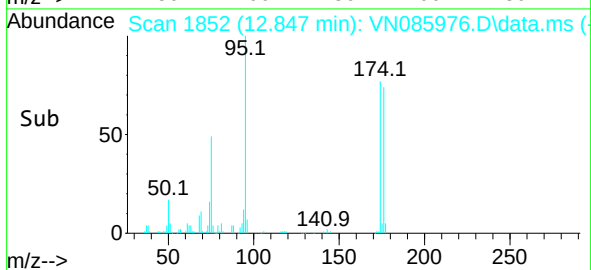
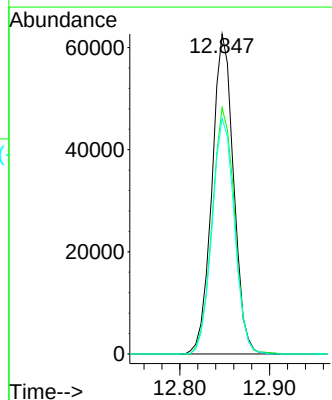
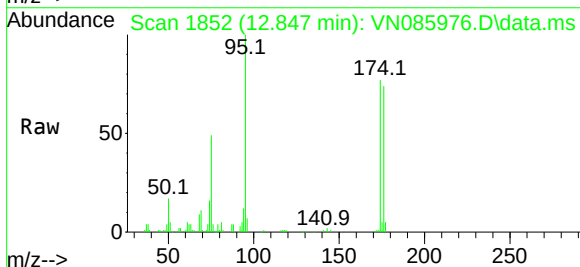
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

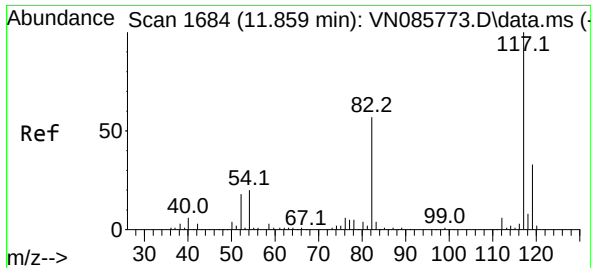
Tgt Ion: 43 Resp: 38547
Ion Ratio Lower Upper
43 100
58 24.1 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 52.346 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 95 Resp: 104527
Ion Ratio Lower Upper
95 100
174 79.8 0.0 152.4
176 76.0 0.0 146.6

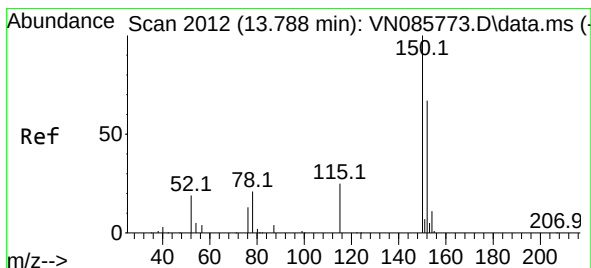
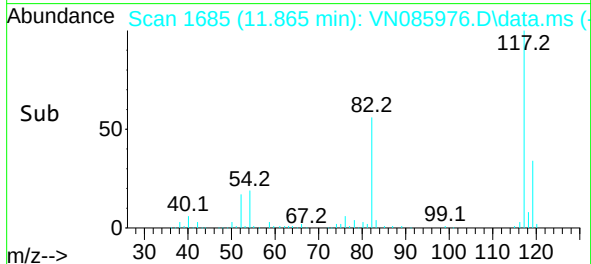
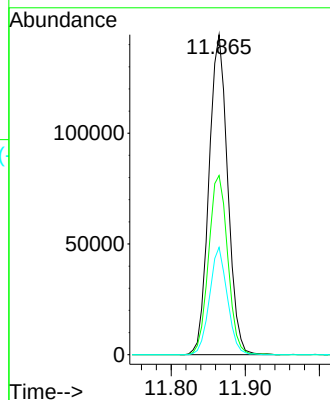
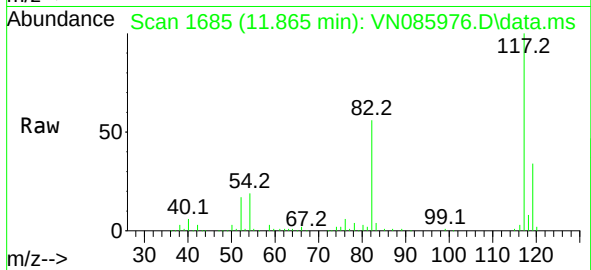




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

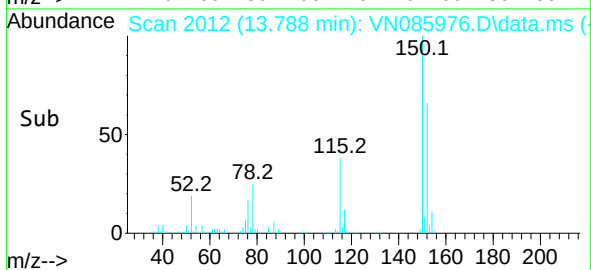
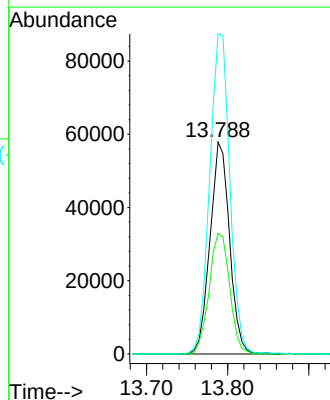
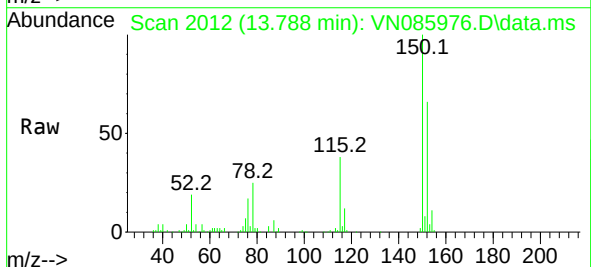
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

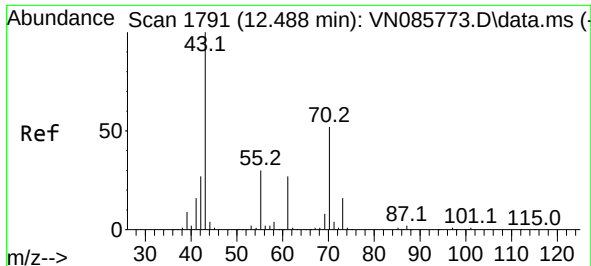
Tgt Ion:117 Resp: 253553
Ion Ratio Lower Upper
117 100
82 56.0 45.7 68.5
119 33.6 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion:152 Resp: 96515
Ion Ratio Lower Upper
152 100
115 59.9 30.4 91.3
150 156.2 0.0 345.4

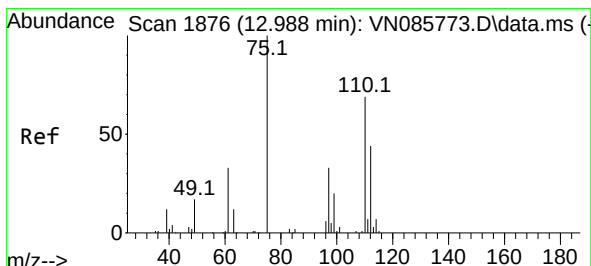
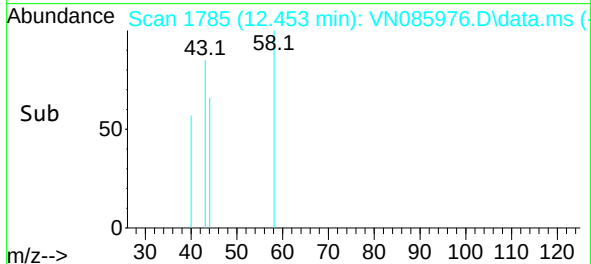
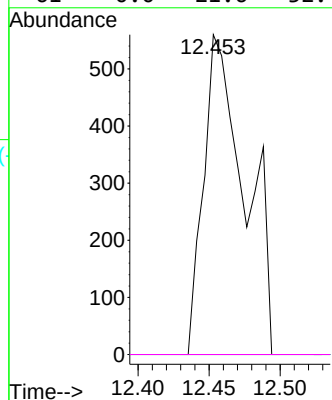
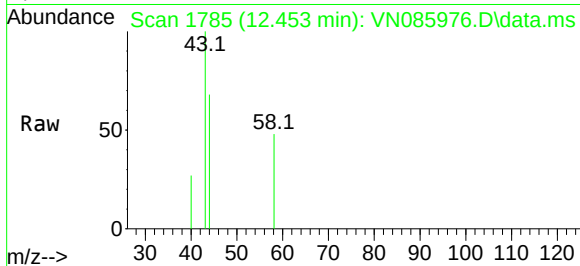




#74
N-amy1 acetate
Concen: 0.485 ug/l
RT: 12.453 min Scan# 1132
Delta R.T. -0.035 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

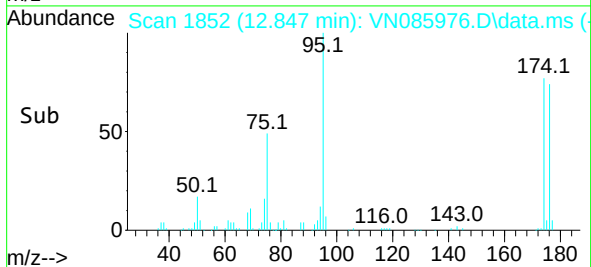
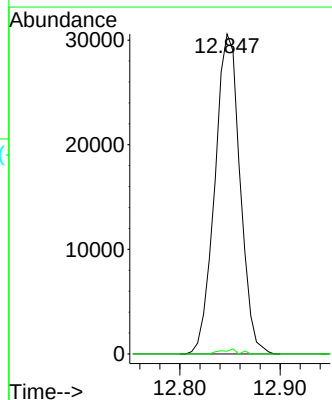
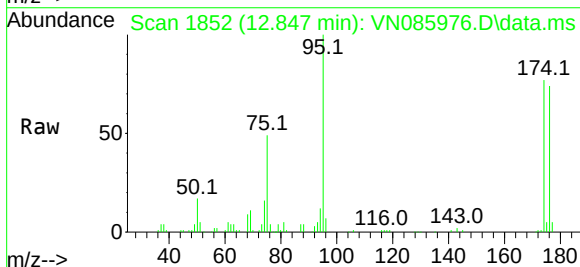
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

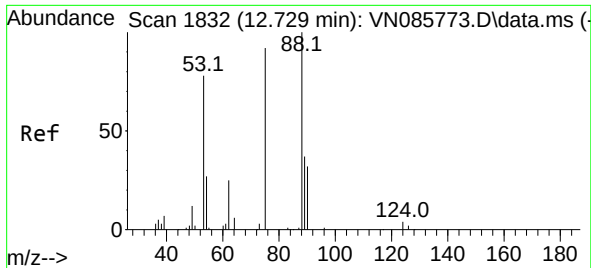
Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	41.0	61.4#
55	0.0	24.6	36.8#
61	0.0	21.6	32.4#



#76
1,2,3-Trichloropropane
Concen: 24.857 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.0	100.0	300.0#

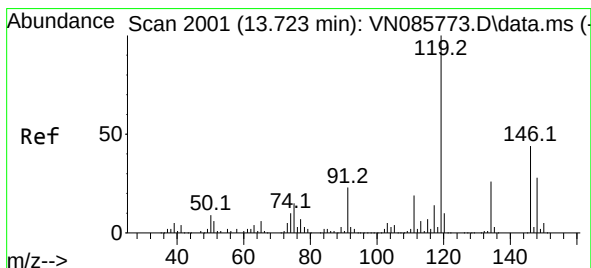
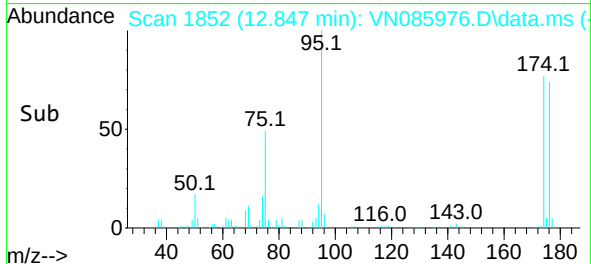
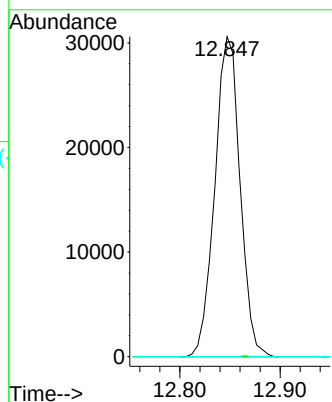
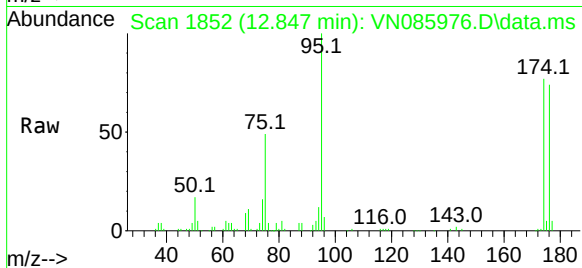




#81
trans-1,4-Dichloro-2-butene
Concen: 72.527 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

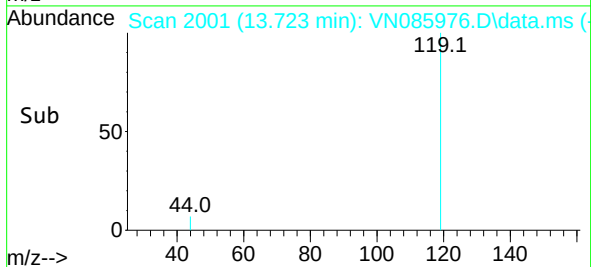
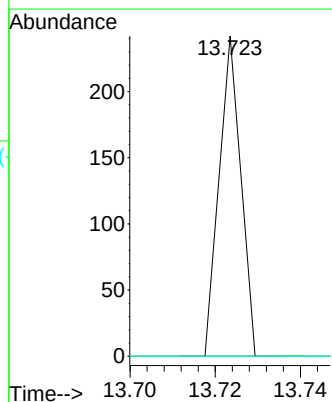
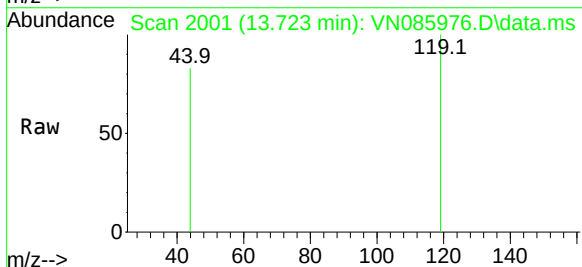
Instrument :
MSVOA_N
ClientSampleId :
PB167104ZHE#01

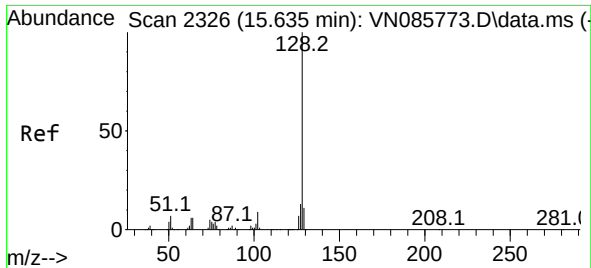
Tgt Ion: 75 Resp: 53292
Ion Ratio Lower Upper
75 100
53 0.0 74.2 111.4#
89 0.1 34.9 52.3#



#86
p-Isopropyltoluene
Concen: 0.641 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085976.D
Acq: 13 Mar 2025 13:24

Tgt Ion: 119 Resp: 85
Ion Ratio Lower Upper
119 100
134 0.0 13.0 39.0#
91 0.0 11.7 35.1#





#95

Naphthalene

Concen: 0.320 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN085976.D

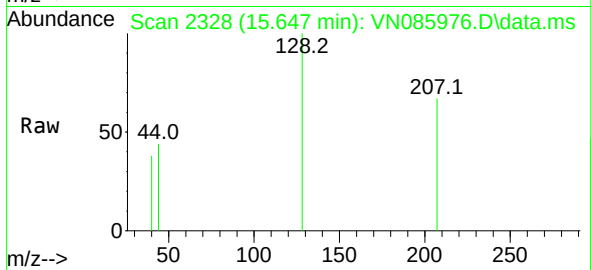
Acq: 13 Mar 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB167104ZHE#01



Tgt Ion:128 Resp: 1346

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.7 13.1#

