

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086640.D
 Acq On : 15 May 2025 13:11
 Operator : JC\MD
 Sample : PB167995ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#02

Quant Time: May 16 05:26:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

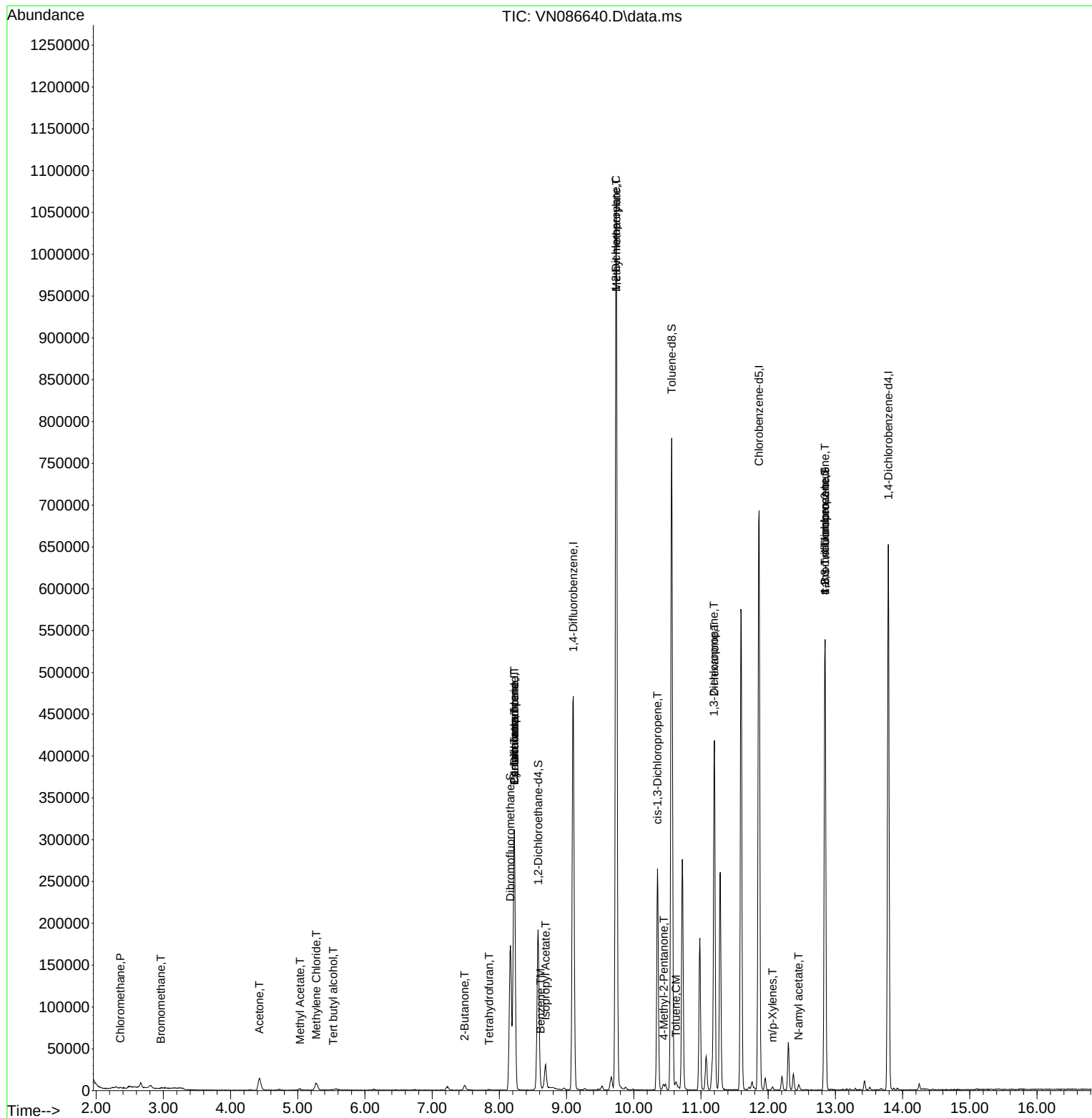
Internal Standards						
1) Pentafluorobenzene	8.224	168	237655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	434977	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	427545	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182748	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	155324	45.071	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.140%			
35) Dibromofluoromethane	8.165	113	130017	64.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 128.800%#			
50) Toluene-d8	10.565	98	557429	51.665	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.320%			
62) 4-Bromofluorobenzene	12.847	95	205656	52.259	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.520%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	931	0.227	ug/l #	64
5) Bromomethane	2.965	94	374	0.213	ug/l #	3
11) Tert butyl alcohol	5.530	59	1440	2.290	ug/l #	72
16) Acetone	4.430	43	28072	18.270	ug/l	99
18) Methyl Acetate	5.036	43	3327	0.804	ug/l #	80
20) Methylene Chloride	5.277	84	7102	2.229	ug/l #	83
25) 2-Butanone	7.483	43	9938	4.633	ug/l #	86
29) Tetrahydrofuran	7.847	42	860	0.600	ug/l #	42
31) Cyclohexane	8.224	56	4714	0.844	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18326	4.545	ug/l #	49
38) Carbon Tetrachloride	8.224	117	23358	6.083	ug/l #	16
40) Benzene	8.612	78	3347	0.259	ug/l	97
43) Isopropyl Acetate	8.688	43	38328	3.226	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	1352	0.428	ug/l #	43
48) Methyl methacrylate	9.741	41	94003	25.216	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	5654	1.301	ug/l	88
52) Toluene	10.629	92	4122	0.511	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	52052	9.756	ug/l #	56
57) 1,3-Dichloropropane	11.194	76	4639	0.902	ug/l #	43
59) 2-Hexanone	11.200	43	82371	25.547	ug/l #	45
68) m/p-Xylenes	12.065	106	1475	0.229	ug/l	94
74) N-amyl acetate	12.453	43	5163	0.694	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	101194	23.465	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	101194	56.354	ug/l #	10

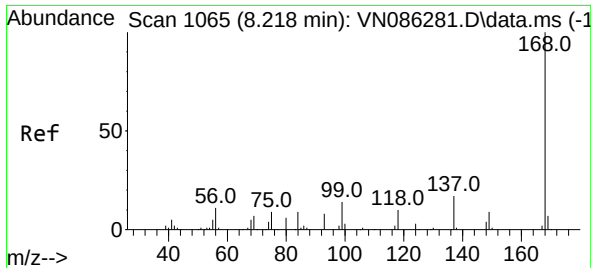
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
Data File : VN086640.D
Acq On : 15 May 2025 13:11
Operator : JC\MD
Sample : PB167995ZHE#02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

Quant Time: May 16 05:26:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

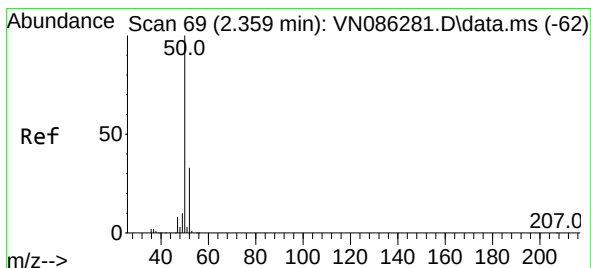
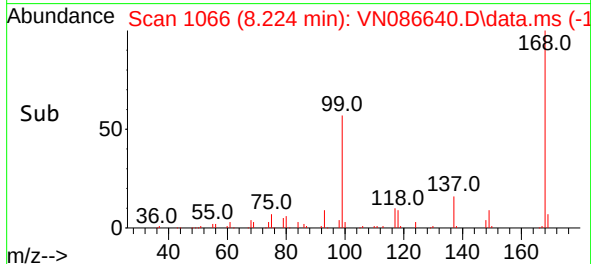
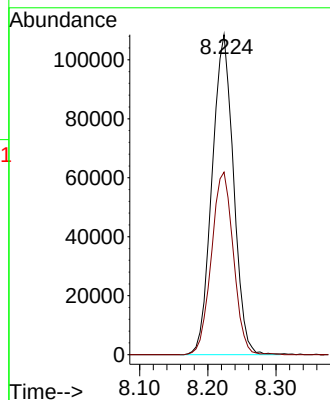
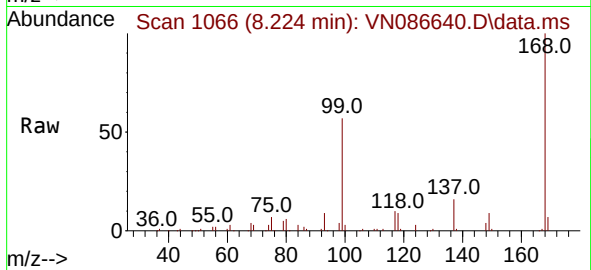




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

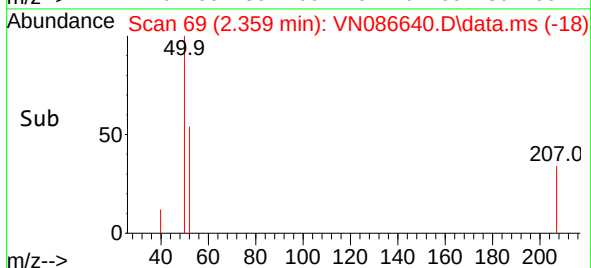
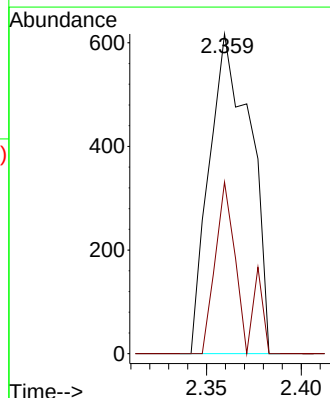
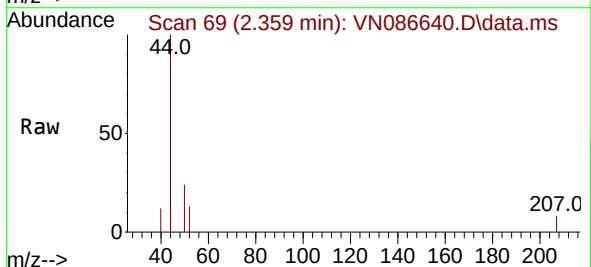
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

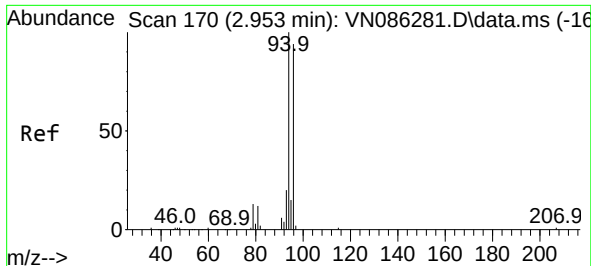
Tgt Ion:168 Resp: 237655
Ion Ratio Lower Upper
168 100
99 57.0 52.5 78.7



#3
Chloromethane
Concen: 0.227 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 50 Resp: 931
Ion Ratio Lower Upper
50 100
52 53.6 26.5 39.7#

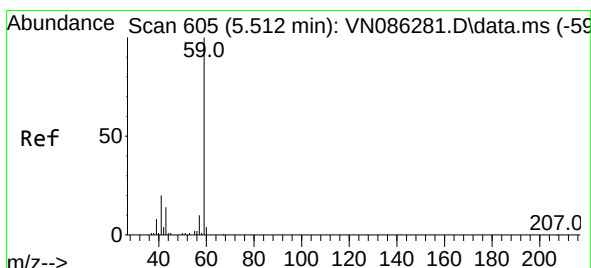
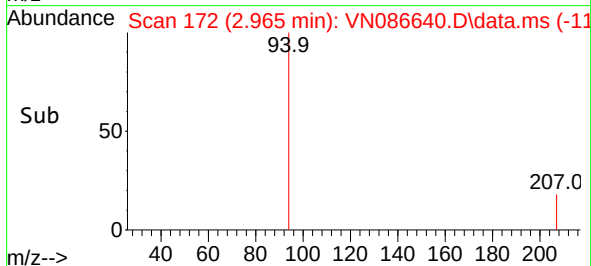
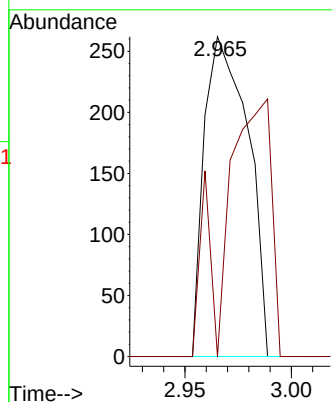
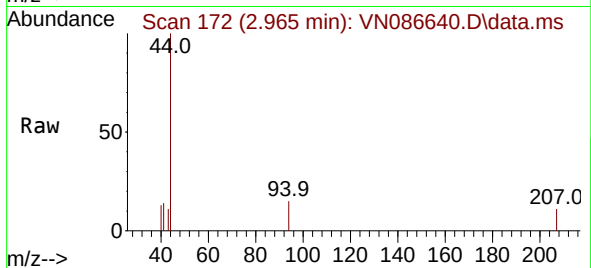




#5
Bromomethane
Concen: 0.213 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

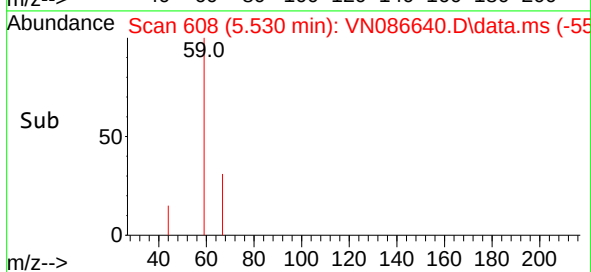
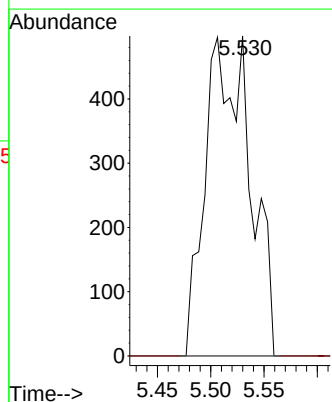
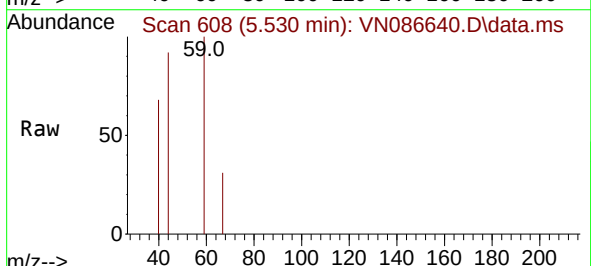
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

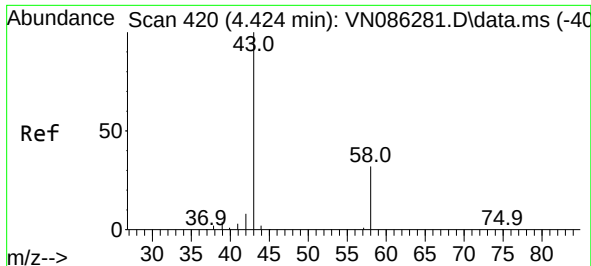
Tgt Ion: 94 Resp: 374
Ion Ratio Lower Upper
94 100
96 0.0 75.2 112.8#



#11
Tert butyl alcohol
Concen: 2.290 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.018 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 59 Resp: 1440
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

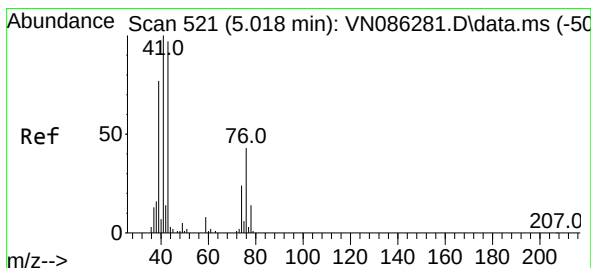
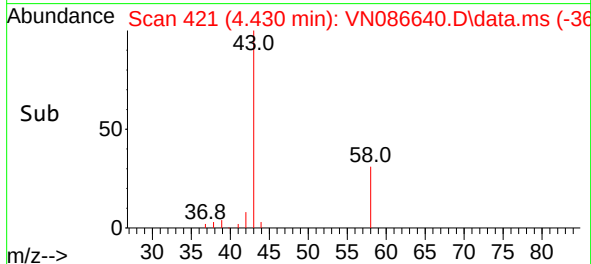
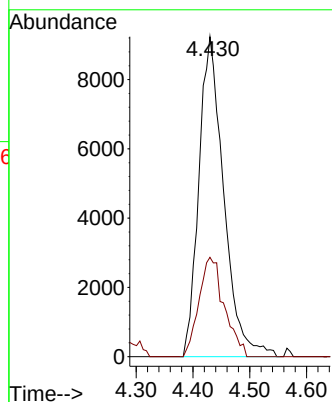
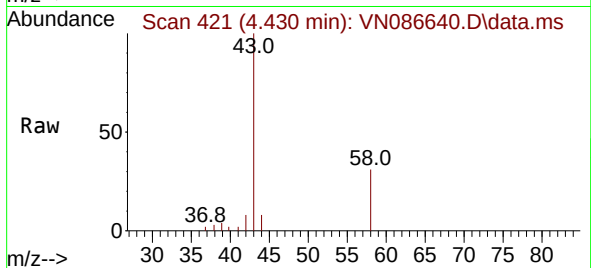




#16
Acetone
Concen: 18.270 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

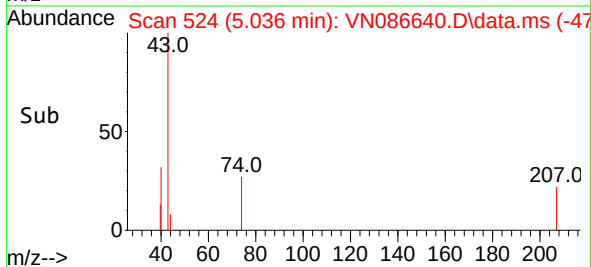
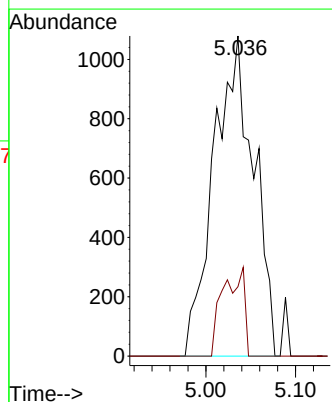
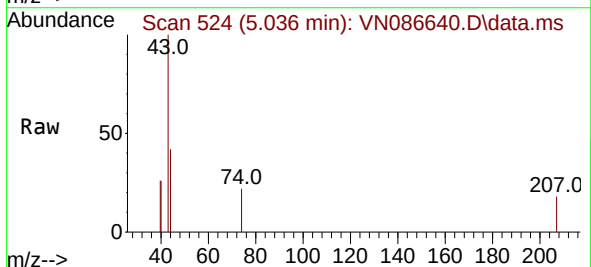
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

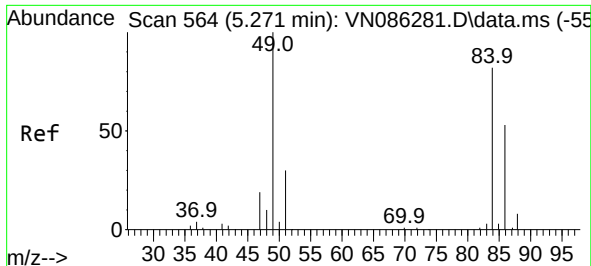
Tgt Ion: 43 Resp: 28072
Ion Ratio Lower Upper
43 100
58 31.1 25.3 37.9



#18
Methyl Acetate
Concen: 0.804 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 43 Resp: 3327
Ion Ratio Lower Upper
43 100
74 14.9 19.8 29.6#

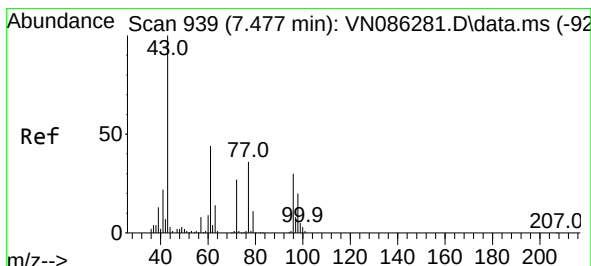
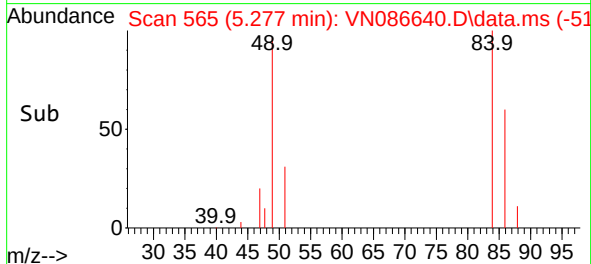
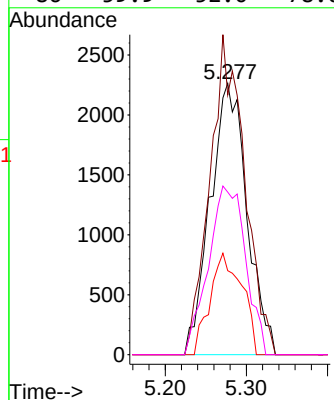
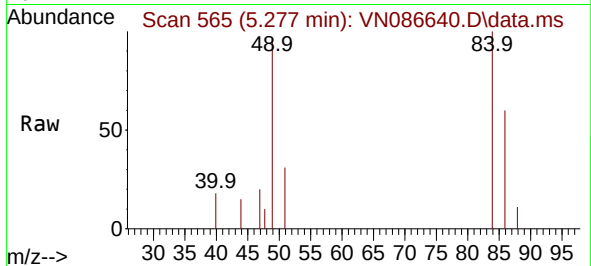




#20
Methylene Chloride
Concen: 2.229 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

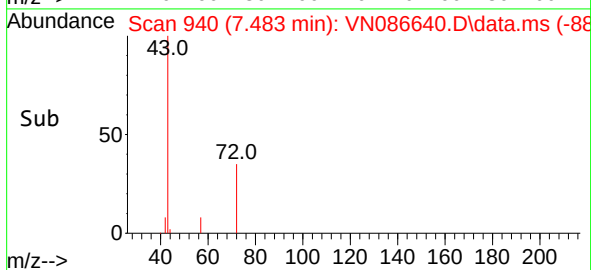
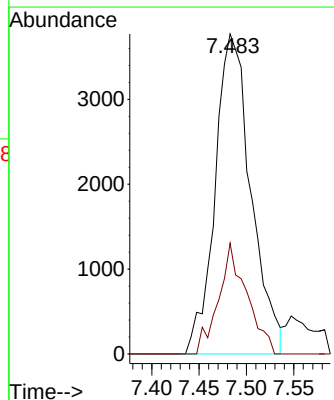
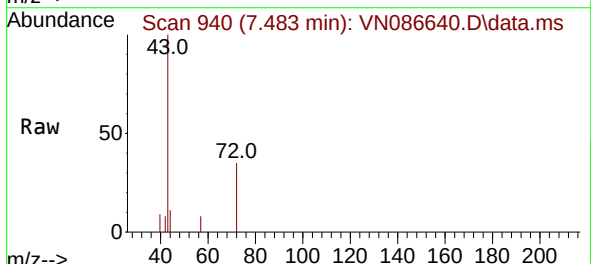
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

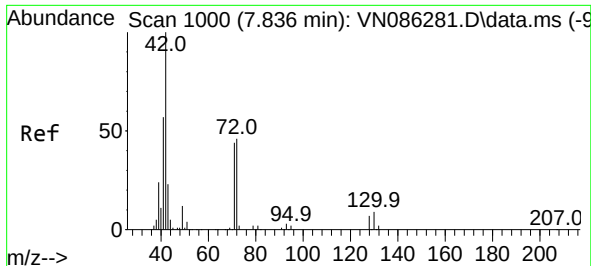
Tgt Ion:	84	Resp:	7102
Ion	Ratio	Lower	Upper
84	100		
49	95.7	98.2	147.2#
51	31.0	29.8	44.6
86	59.9	52.0	78.0



#25
2-Butanone
Concen: 4.633 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion:	43	Resp:	9938
Ion	Ratio	Lower	Upper
43	100		
72	34.6	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.600 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086640.D

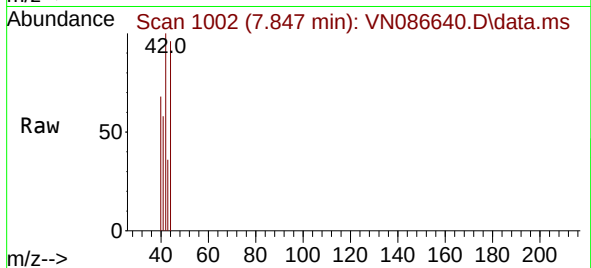
Acq: 15 May 2025 13:11

Instrument :

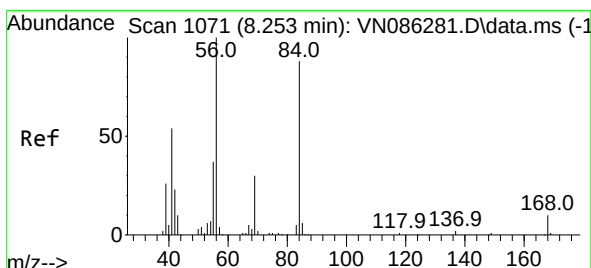
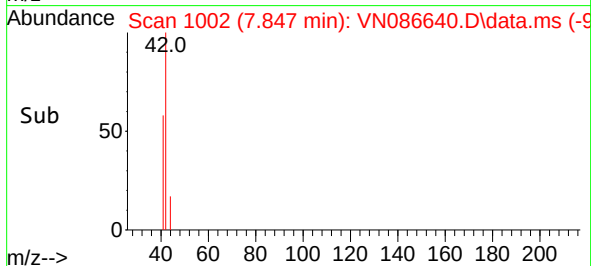
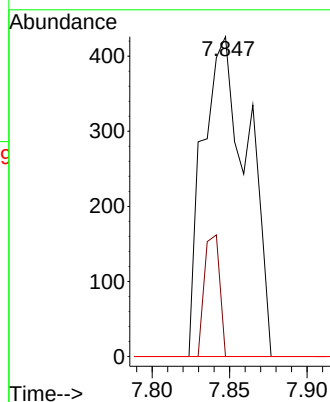
MSVOA_N

ClientSampleId :

PB167995ZHE#02



Tgt Ion:	42	Resp:	860
Ion	Ratio	Lower	Upper
42	100		
72	12.9	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.844 ug/l

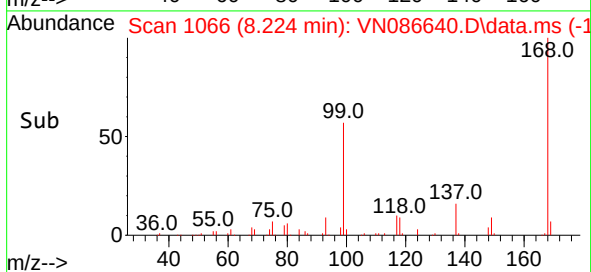
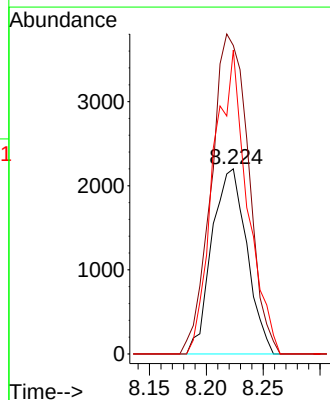
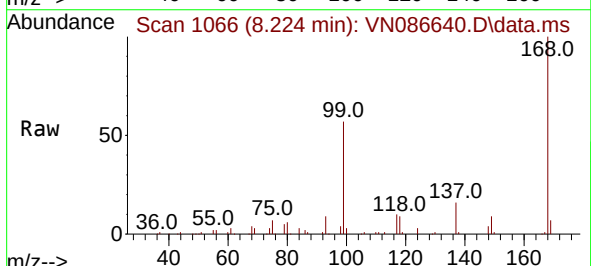
RT: 8.224 min Scan# 1066

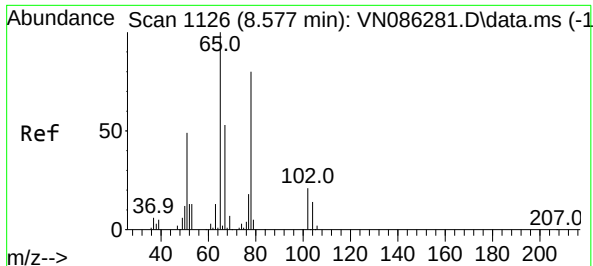
Delta R.T. -0.029 min

Lab File: VN086640.D

Acq: 15 May 2025 13:11

Tgt Ion:	56	Resp:	4714
Ion	Ratio	Lower	Upper
56	100		
69	166.7	24.2	36.2#
84	164.2	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 45.071 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086640.D

Acq: 15 May 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

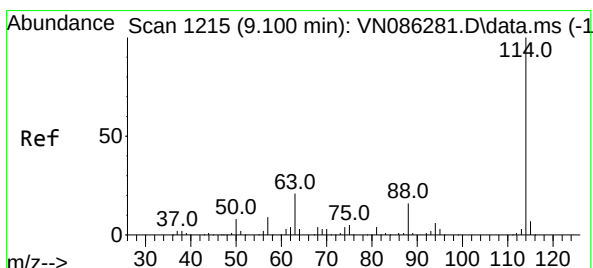
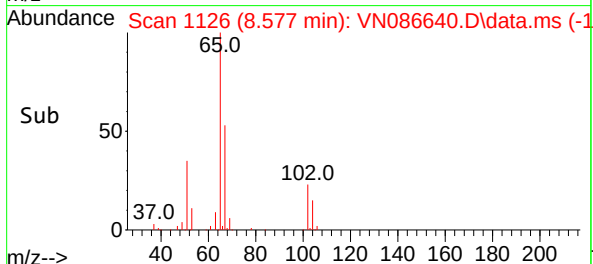
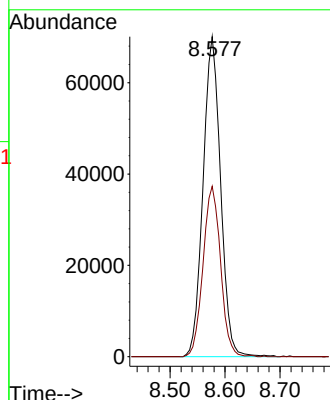
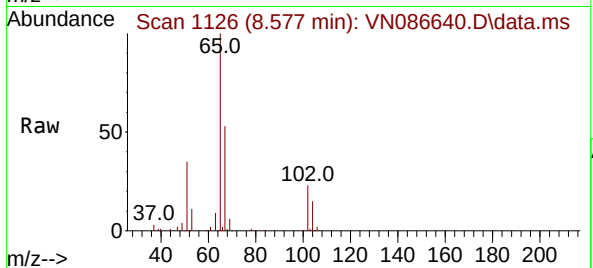
PB167995ZHE#02

Tgt Ion: 65 Resp: 155324

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086640.D

Acq: 15 May 2025 13:11

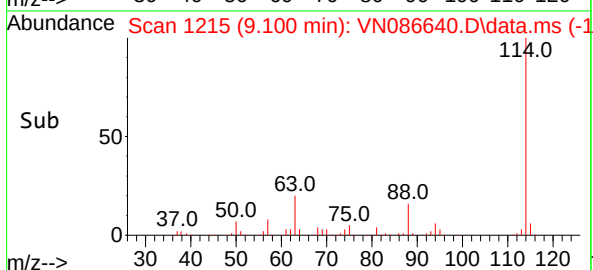
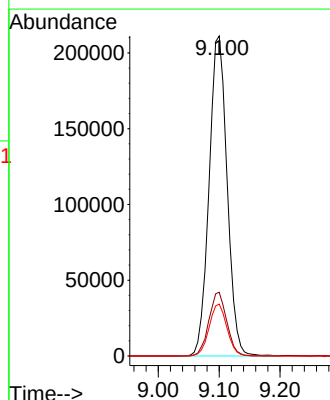
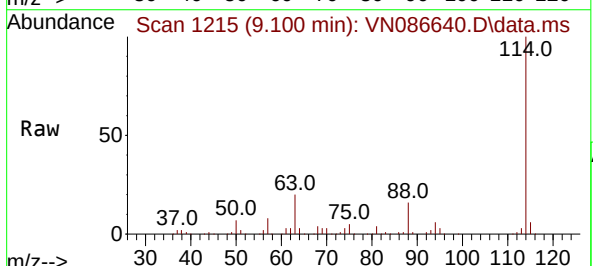
Tgt Ion: 114 Resp: 434977

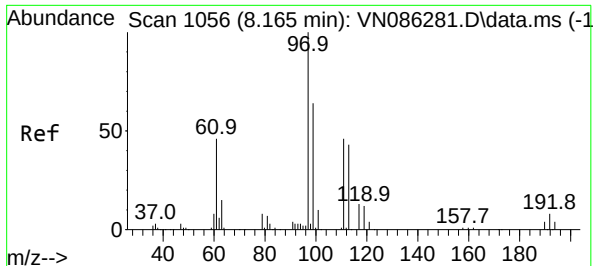
Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 64.404 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086640.D

Acq: 15 May 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#02

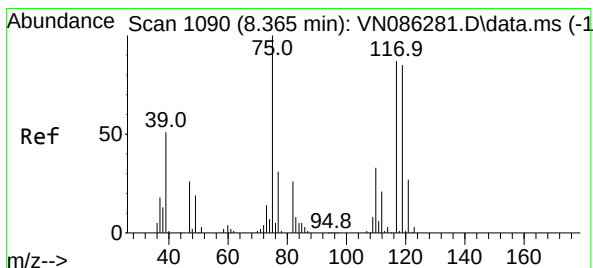
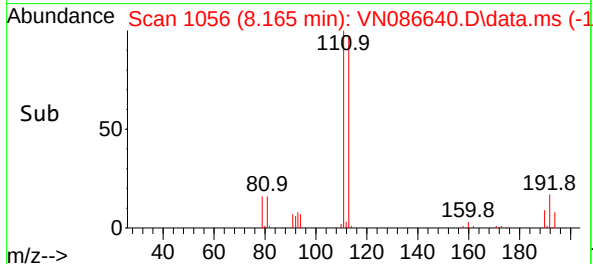
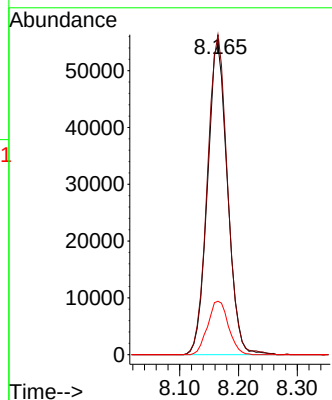
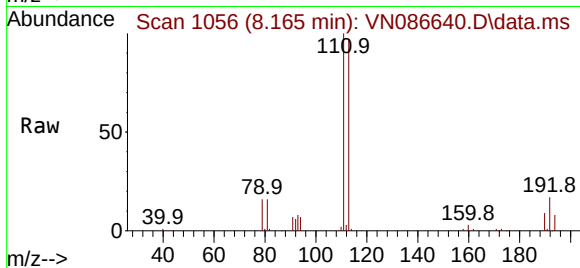
Tgt Ion:113 Resp: 130017

Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.0

192 17.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.545 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086640.D

Acq: 15 May 2025 13:11

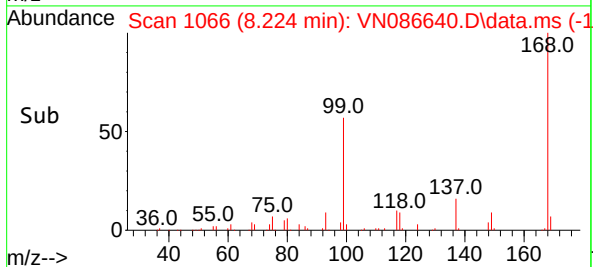
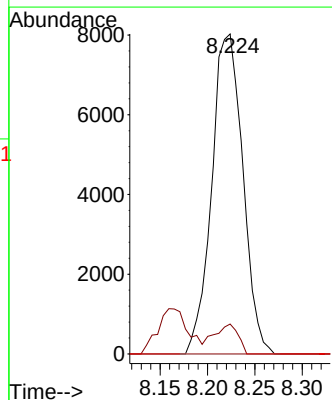
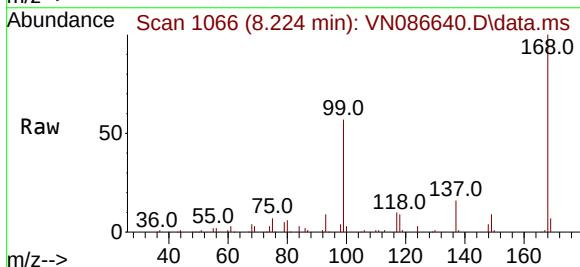
Tgt Ion: 75 Resp: 18326

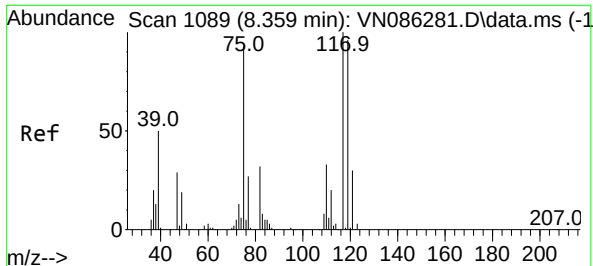
Ion Ratio Lower Upper

75 100

110 7.3 16.8 50.4#

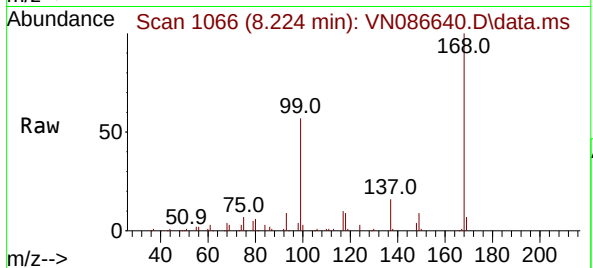
77 0.0 24.9 37.3#



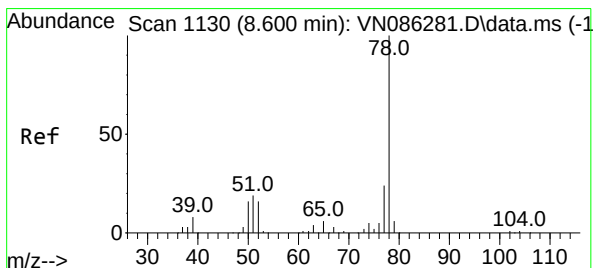
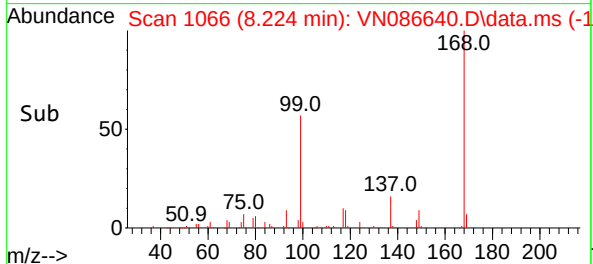
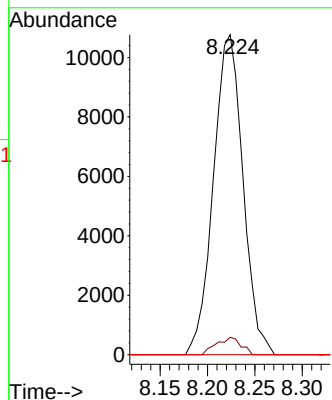


#38
Carbon Tetrachloride
Concen: 6.083 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

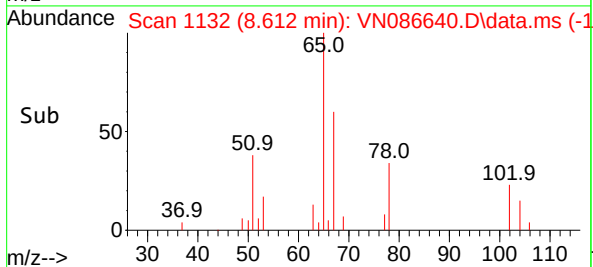
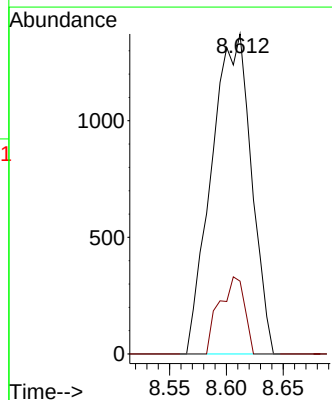
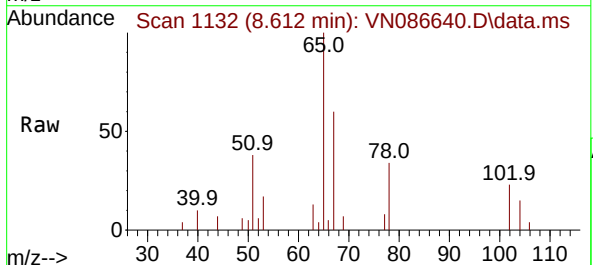


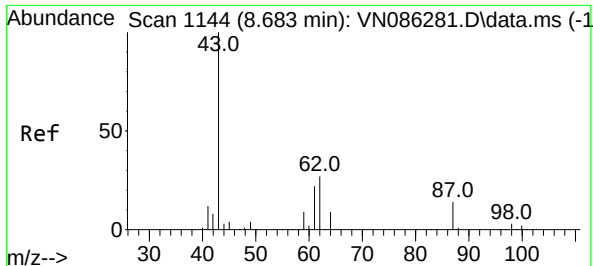
Tgt Ion:117 Resp: 23358
Ion Ratio Lower Upper
117 100
119 5.5 76.8 115.2#
121 0.0 23.8 35.8#



#40
Benzene
Concen: 0.259 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.012 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 78 Resp: 3347
Ion Ratio Lower Upper
78 100
77 22.7 19.4 29.2

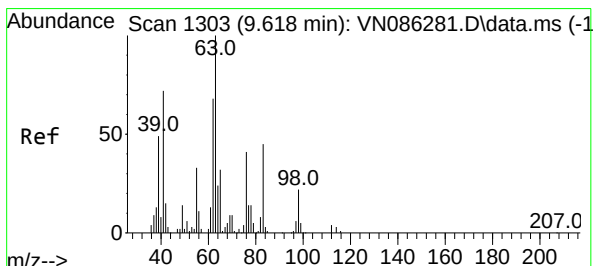
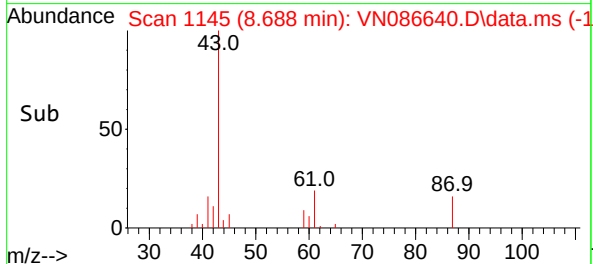
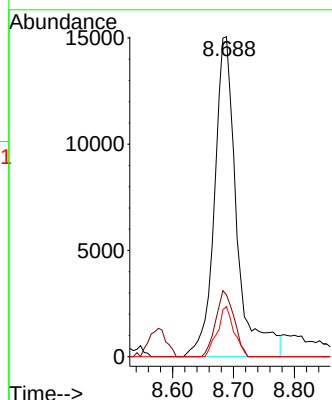
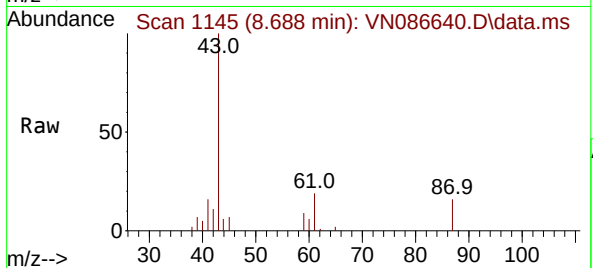




#43
Isopropyl Acetate
Concen: 3.226 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

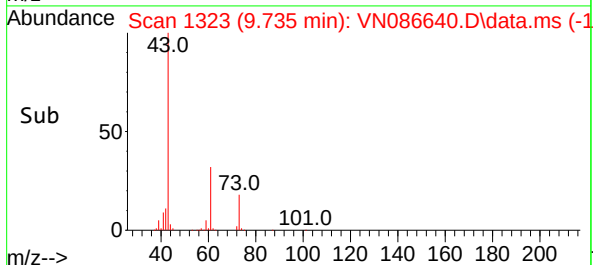
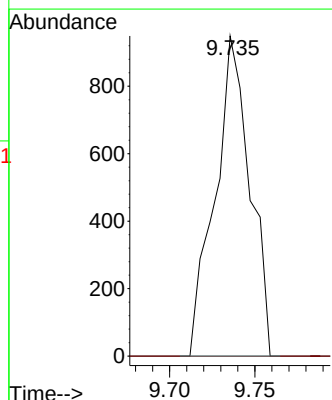
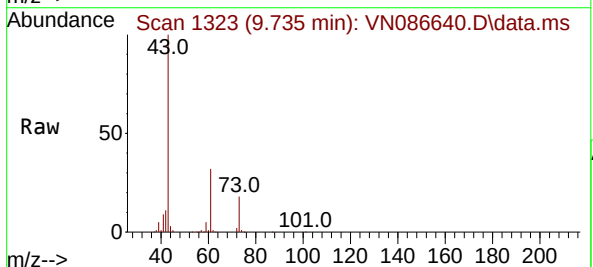
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

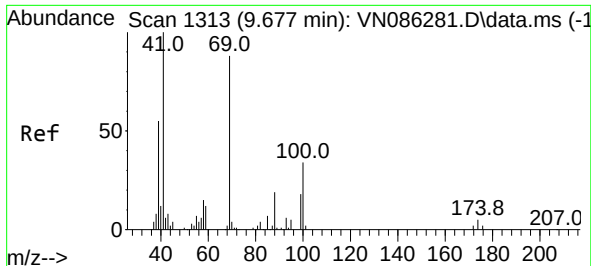
Tgt Ion: 43 Resp: 38328
Ion Ratio Lower Upper
43 100
61 16.9 20.5 30.7#
87 11.6 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.428 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 63 Resp: 1352
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

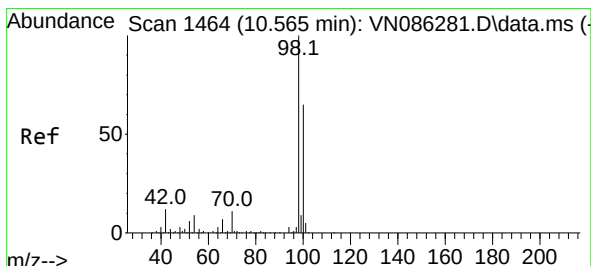
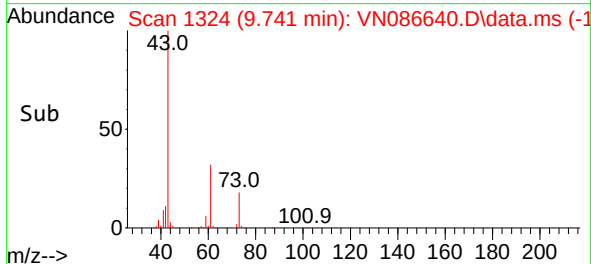
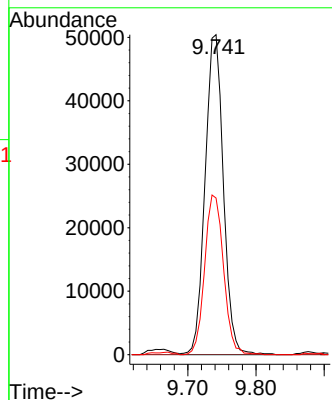
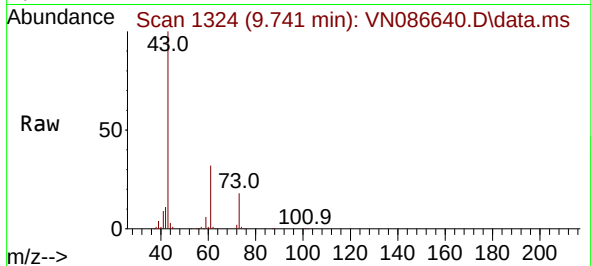




#48
Methyl methacrylate
Concen: 25.216 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

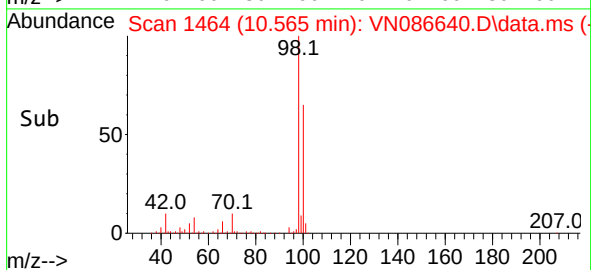
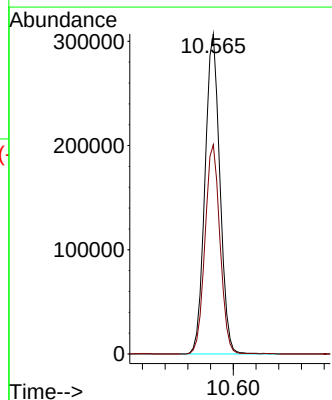
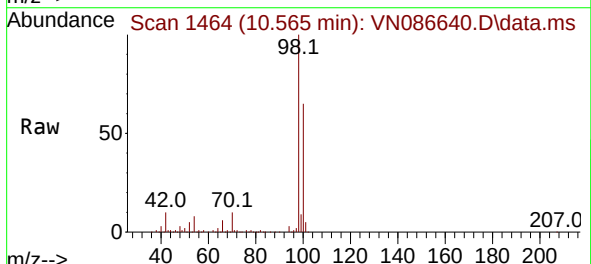
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

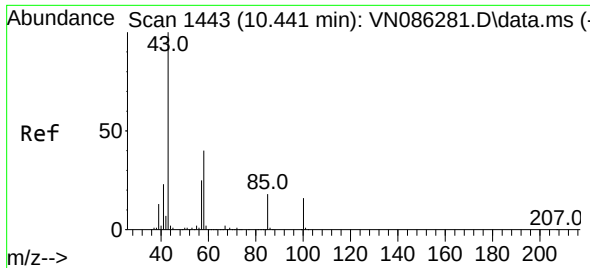
Tgt Ion: 41 Resp: 94003
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 51.6 45.2 67.8



#50
Toluene-d8
Concen: 51.665 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 98 Resp: 557429
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7

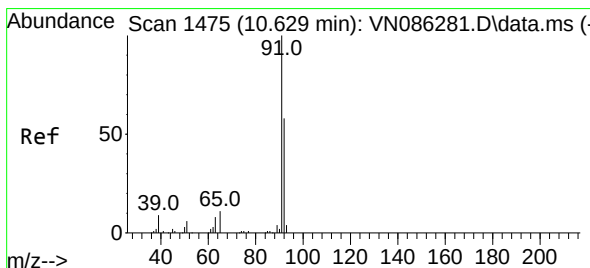
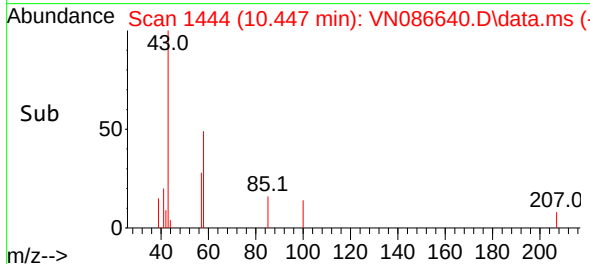
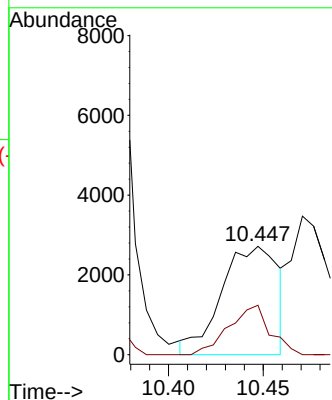
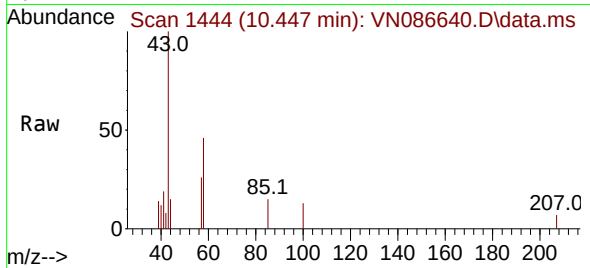




#51
4-Methyl-2-Pentanone
Concen: 1.301 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

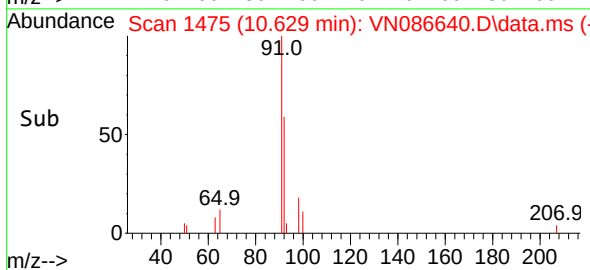
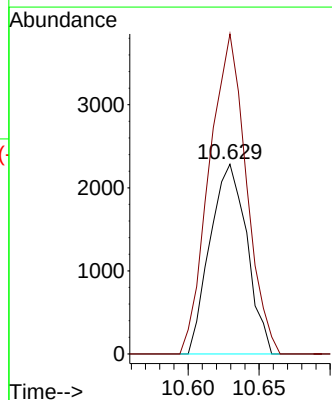
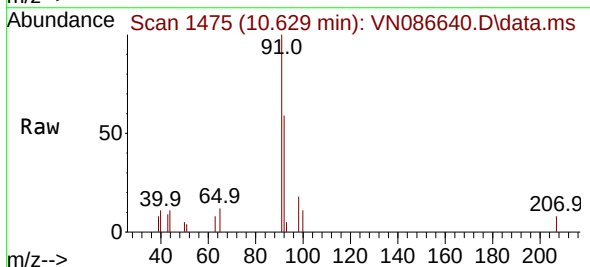
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

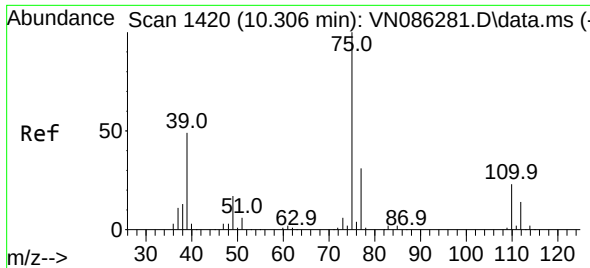
Tgt Ion: 43 Resp: 5654
Ion Ratio Lower Upper
43 100
58 33.1 32.2 48.4



#52
Toluene
Concen: 0.511 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 92 Resp: 4122
Ion Ratio Lower Upper
92 100
91 169.6 137.3 205.9

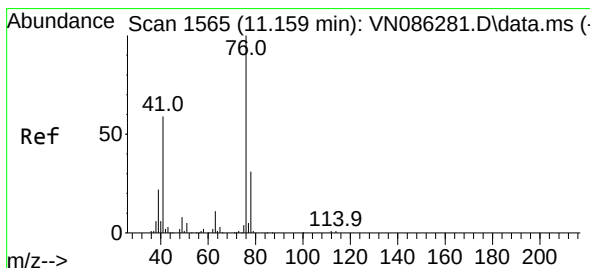
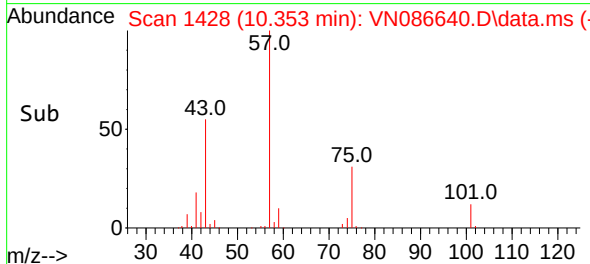
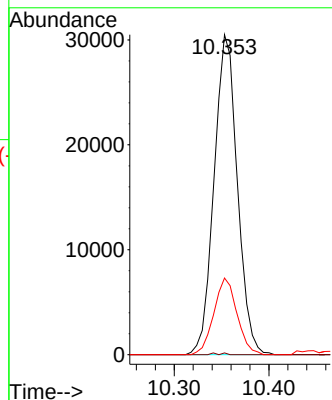
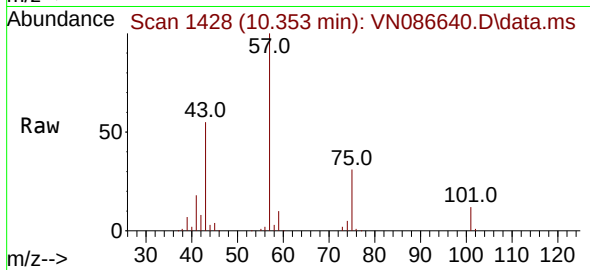




#54
 cis-1,3-Dichloropropene
 Concen: 9.756 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086640.D
 Acq: 15 May 2025 13:11

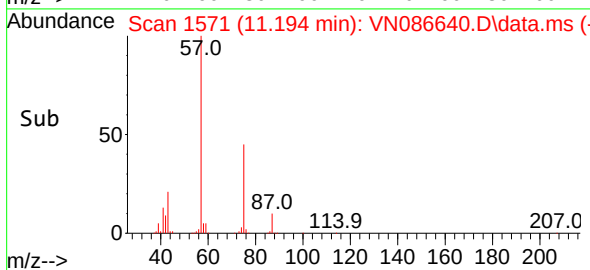
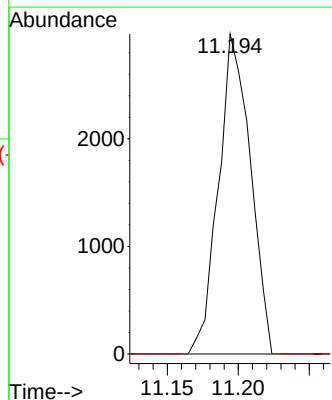
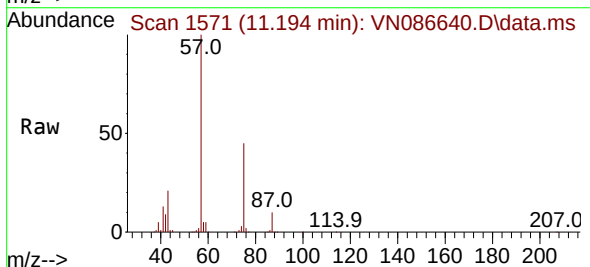
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#02

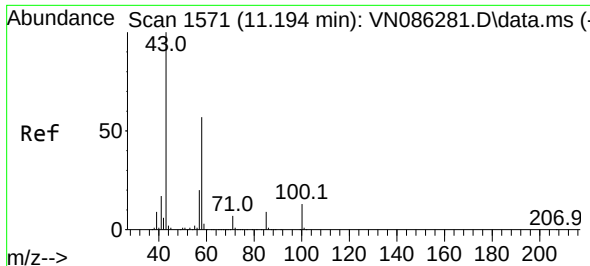
Tgt Ion: 75 Resp: 52052
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 24.0 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.902 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086640.D
 Acq: 15 May 2025 13:11

Tgt Ion: 76 Resp: 4639
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

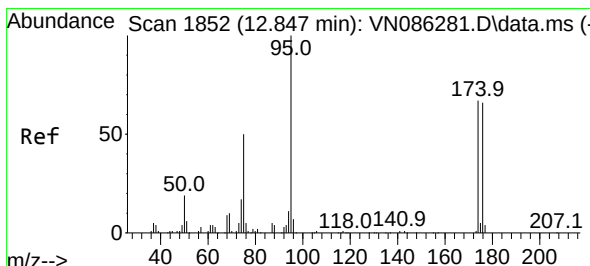
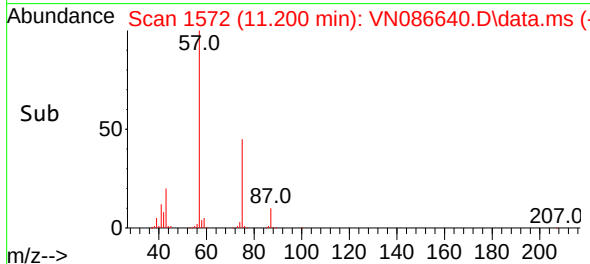
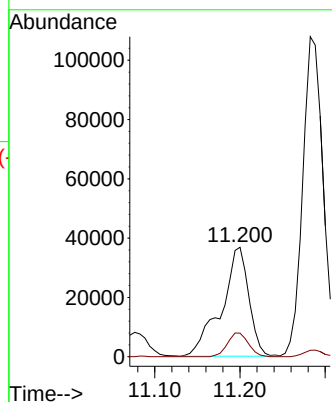
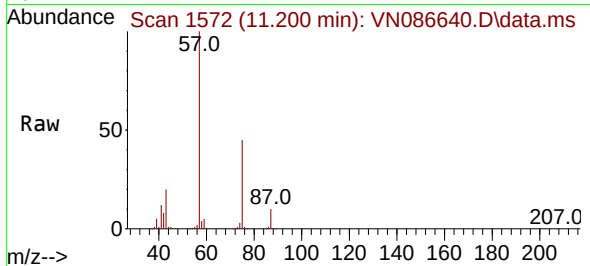




#59
2-Hexanone
Concen: 25.547 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

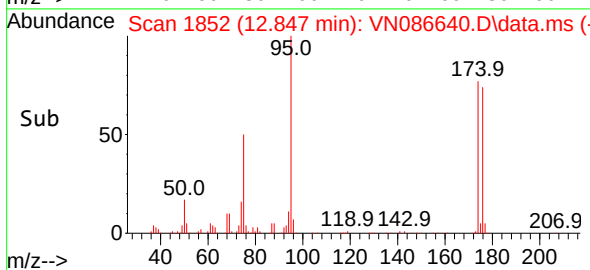
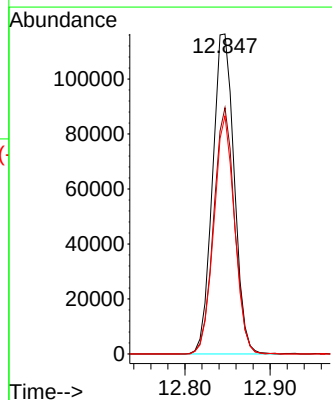
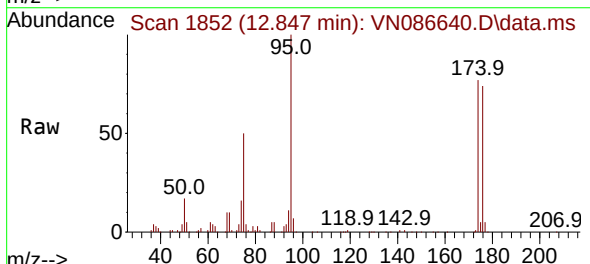
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

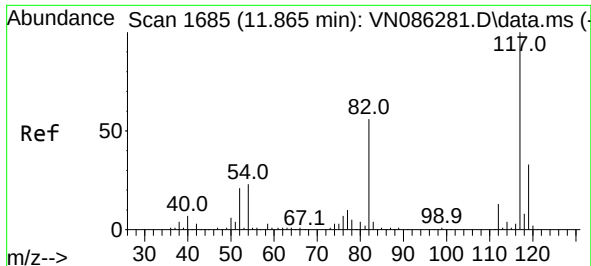
Tgt Ion: 43 Resp: 82371
Ion Ratio Lower Upper
43 100
58 16.6 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 52.259 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 95 Resp: 205656
Ion Ratio Lower Upper
95 100
174 74.3 0.0 133.4
176 71.0 0.0 129.2

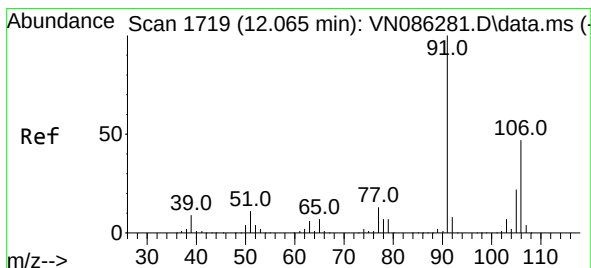
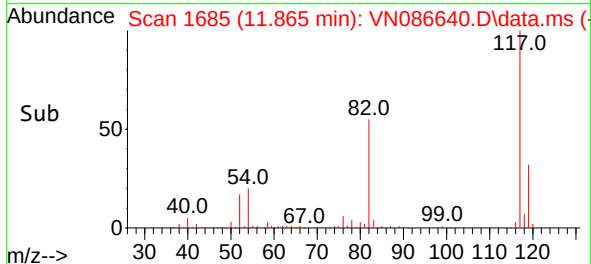
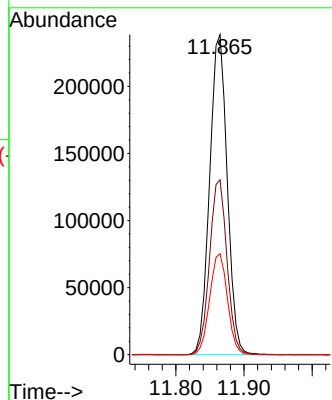
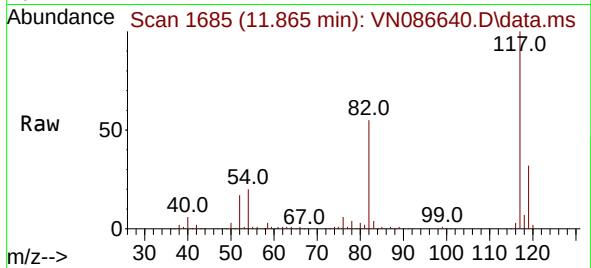




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

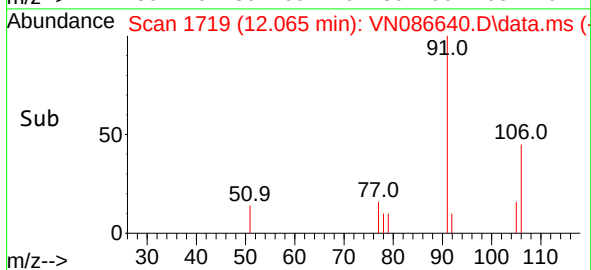
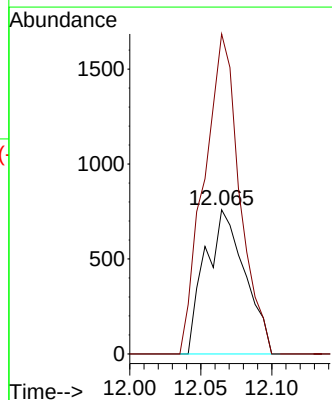
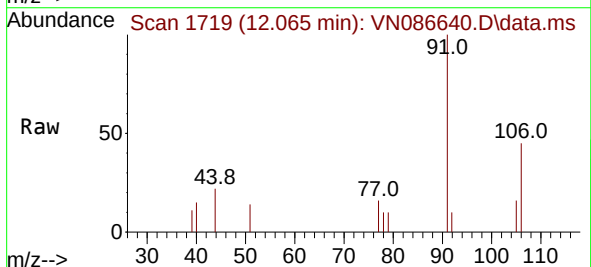
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

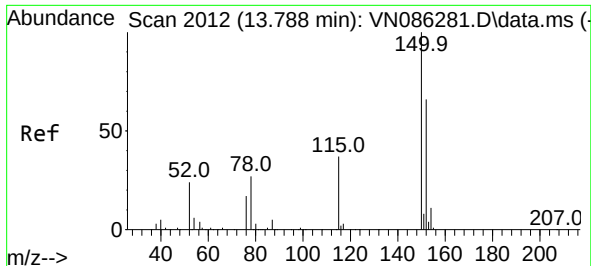
Tgt Ion:117 Resp: 427545
Ion Ratio Lower Upper
117 100
82 54.6 44.7 67.1
119 31.6 26.4 39.6



#68
m/p-Xylenes
Concen: 0.229 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion:106 Resp: 1475
Ion Ratio Lower Upper
106 100
91 199.2 166.5 249.7

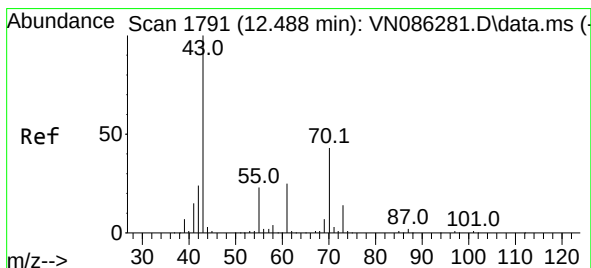
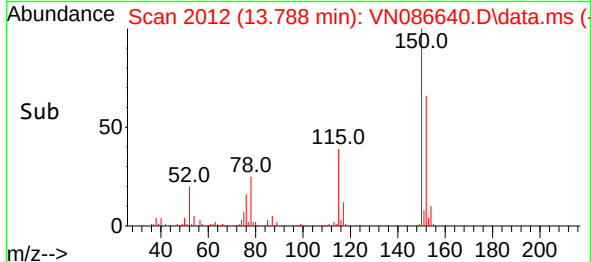
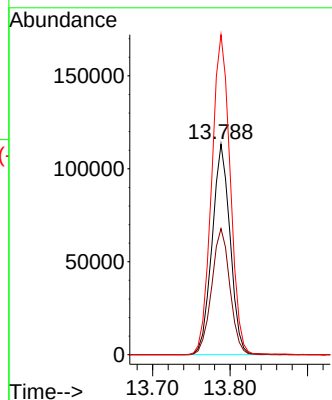
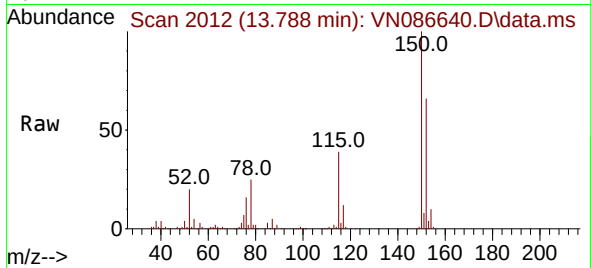




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

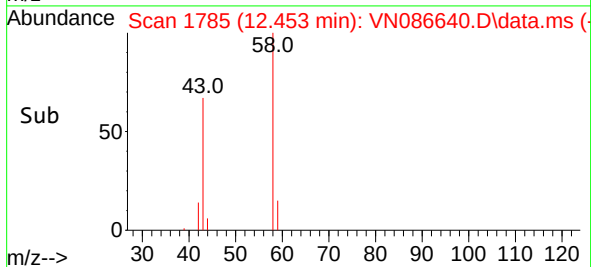
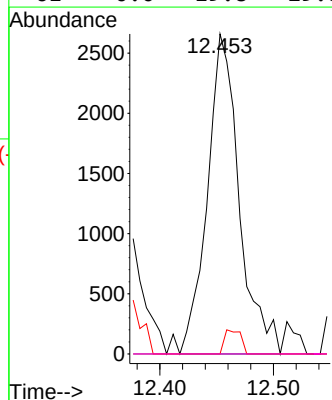
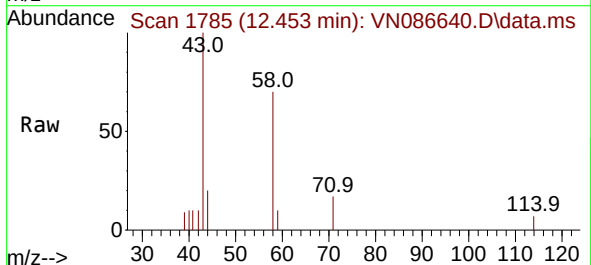
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

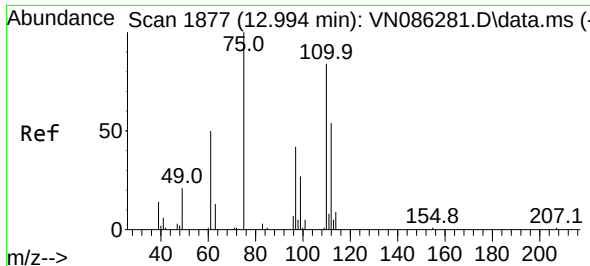
Tgt Ion:152 Resp: 182748
Ion Ratio Lower Upper
152 100
115 60.7 31.9 95.9
150 156.6 0.0 352.0



#74
N-ethyl acetate
Concen: 0.694 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 43 Resp: 5163
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 3.9 19.0 28.4#
61 0.0 19.8 29.8#

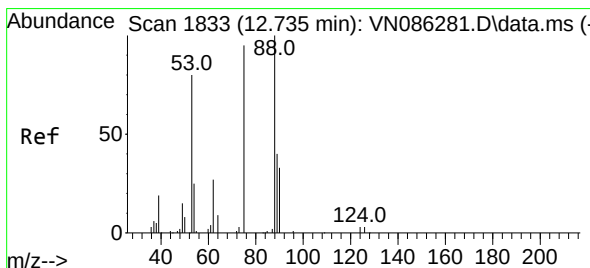
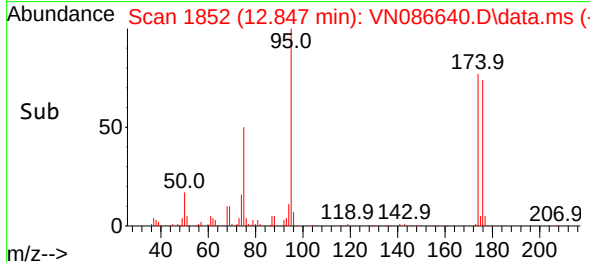
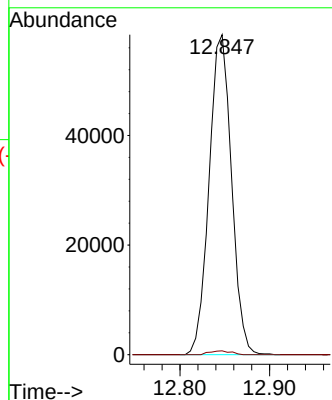
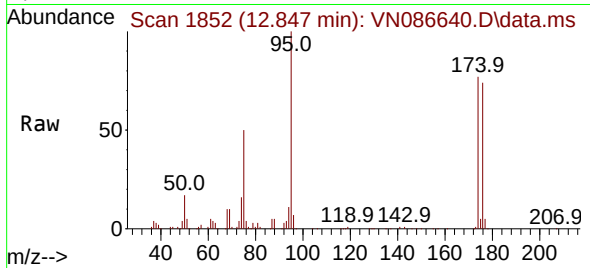




#76
1,2,3-Trichloropropane
Concen: 23.465 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#02

Tgt Ion: 75 Resp: 101194
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.354 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086640.D
Acq: 15 May 2025 13:11

Tgt Ion: 75 Resp: 101194
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

