

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086440.D
 Acq On : 30 Apr 2025 16:40
 Operator : JC\MD
 Sample : PB167775ZHE#10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#10

Quant Time: May 01 01:35:49 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

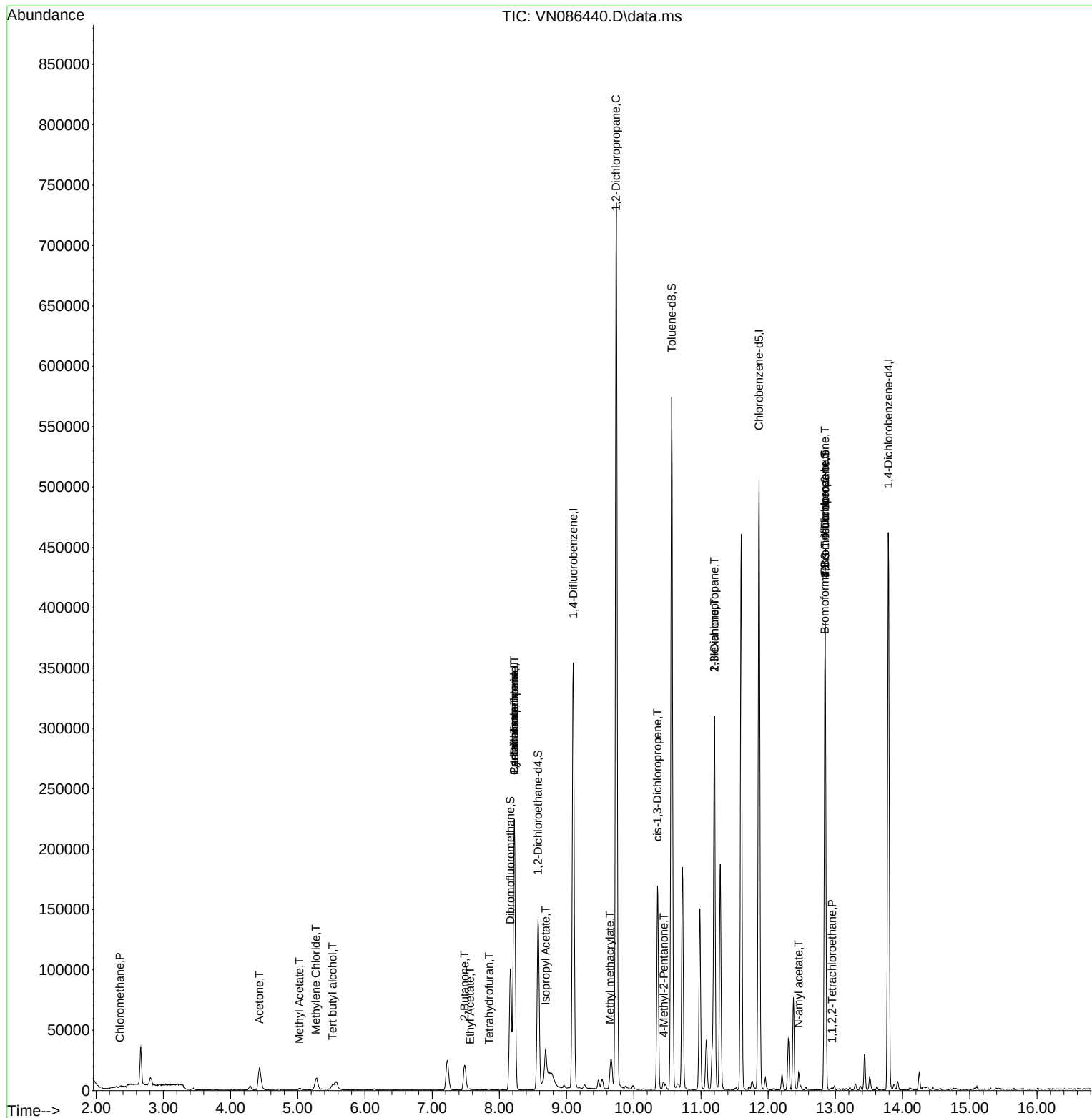
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164148	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312852	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	295032	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116255	48.841	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	97.680%	
35) Dibromofluoromethane	8.165	113	74074	51.016	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	102.040%	
50) Toluene-d8	10.565	98	397306	51.198	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.400%	
62) 4-Bromofluorobenzene	12.847	95	139975	49.453	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.900%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.353	50	600	0.212	ug/l #	42
11) Tert butyl alcohol	5.518	59	7894	18.176	ug/l #	91
16) Acetone	4.430	43	36289	39.285	ug/l	97
18) Methyl Acetate	5.024	43	3522	1.233	ug/l #	62
20) Methylene Chloride	5.271	84	7736	3.516	ug/l	89
25) 2-Butanone	7.482	43	35835	24.187	ug/l	97
29) Tetrahydrofuran	7.847	42	741	0.748	ug/l #	32
31) Cyclohexane	8.224	56	3698	0.959	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13889	4.789	ug/l #	48
37) Ethyl Acetate	7.565	43	1435	0.470	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16826	6.092	ug/l #	16
43) Isopropyl Acetate	8.688	43	53680	8.080	ug/l #	74
45) 1,2-Dichloropropane	9.735	63	876	0.385	ug/l #	43
48) Methyl methacrylate	9.647	41	5076	1.893	ug/l #	40
51) 4-Methyl-2-Pentanone	10.447	43	4864	1.556	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	32326	8.424	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	3011	0.814	ug/l #	43
59) 2-Hexanone	11.200	43	81720	35.239	ug/l #	53
71) Bromoform	12.841	173	703	0.430	ug/l #	1
74) N-amyl acetate	12.453	43	10287	2.010	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.953	83	798	0.270	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	71309	24.039	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71309	57.733	ug/l #	10

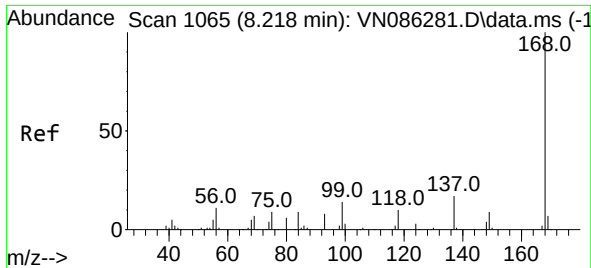
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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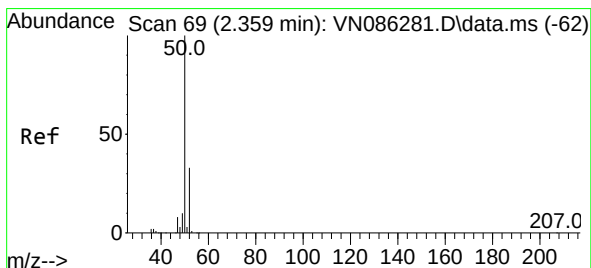
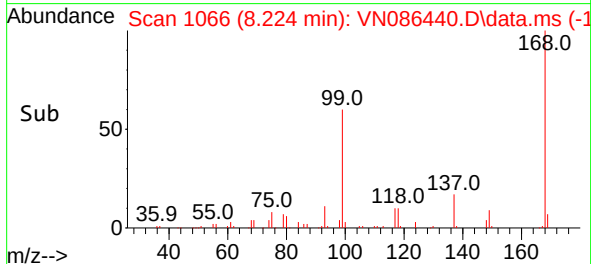
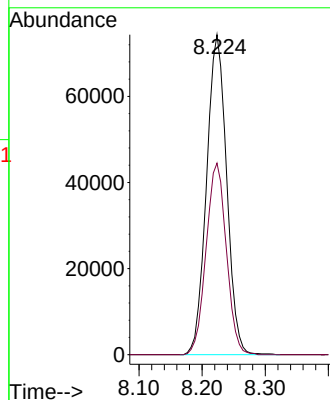
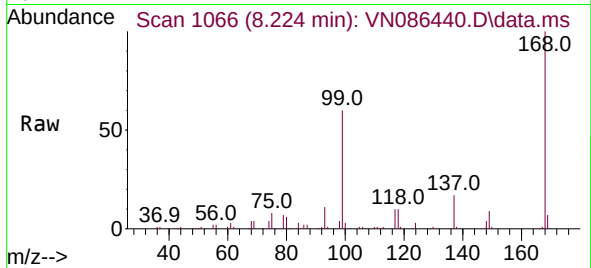




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

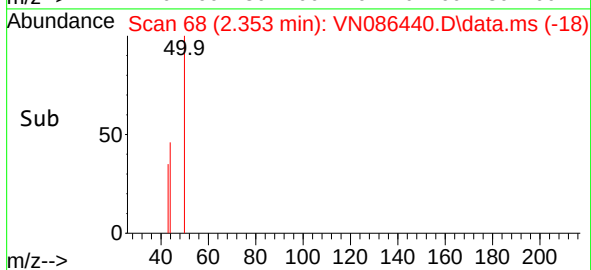
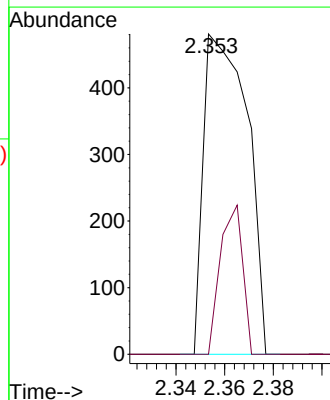
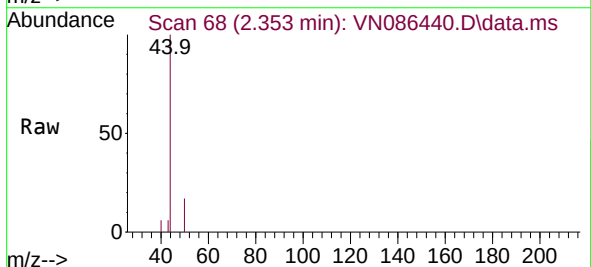
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

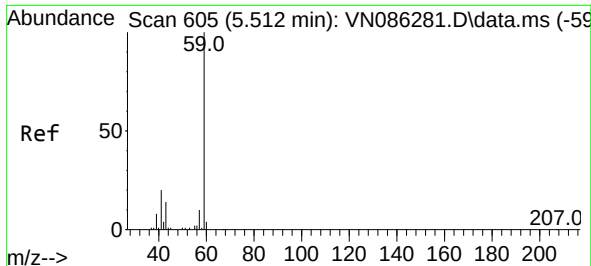
Tgt Ion:168 Resp: 164148
Ion Ratio Lower Upper
168 100
99 59.9 52.5 78.7



#3
Chloromethane
Concen: 0.212 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

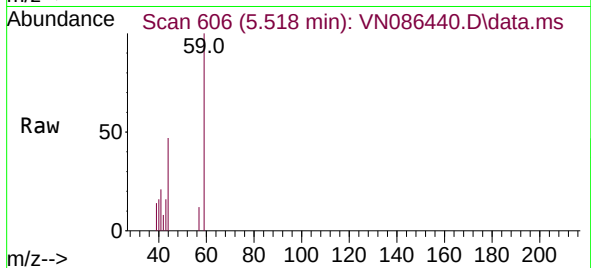
Tgt Ion: 50 Resp: 600
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



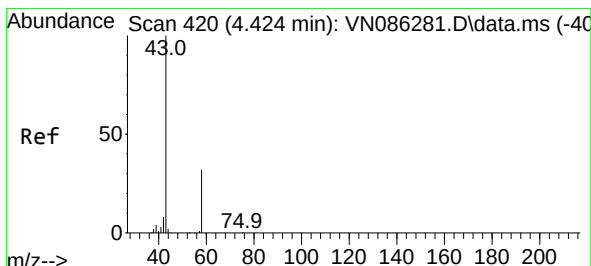
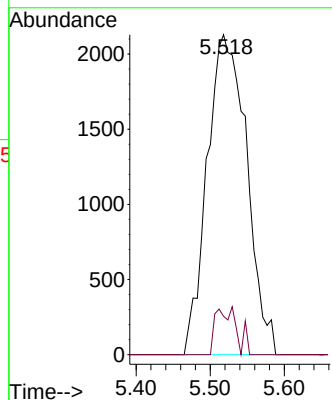
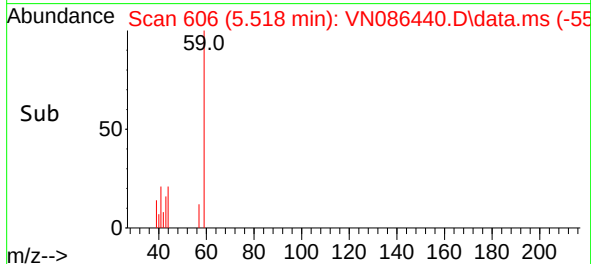


#11
Tert butyl alcohol
Concen: 18.176 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

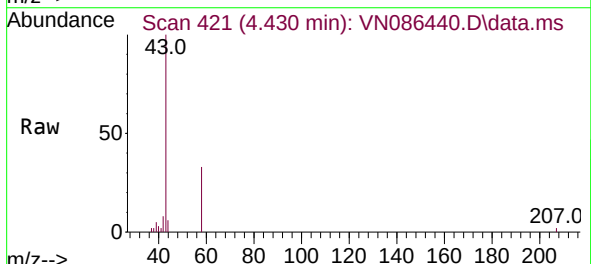
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10



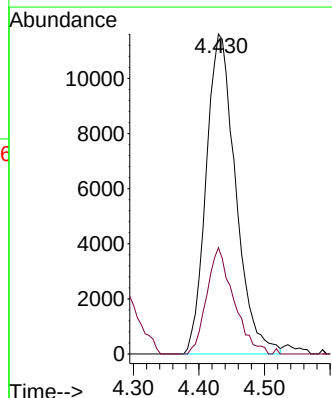
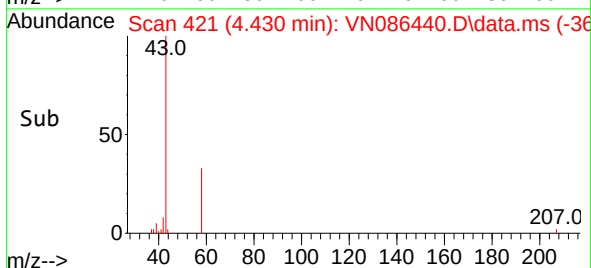
Tgt Ion: 59 Resp: 7894
Ion Ratio Lower Upper
59 100
57 6.9 8.3 12.5#

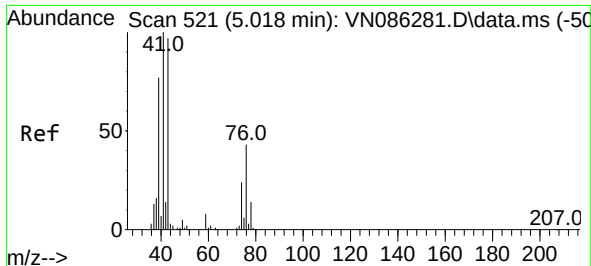


#16
Acetone
Concen: 39.285 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40



Tgt Ion: 43 Resp: 36289
Ion Ratio Lower Upper
43 100
58 33.2 25.3 37.9

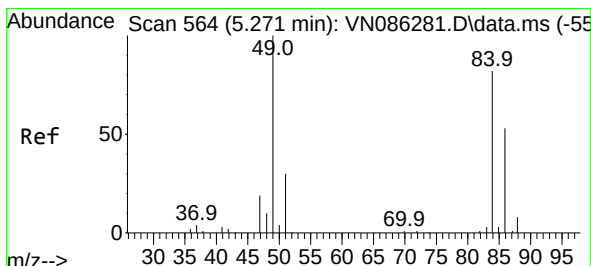
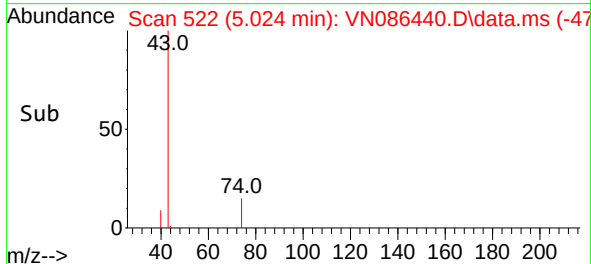
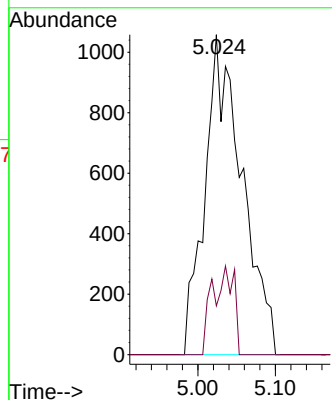
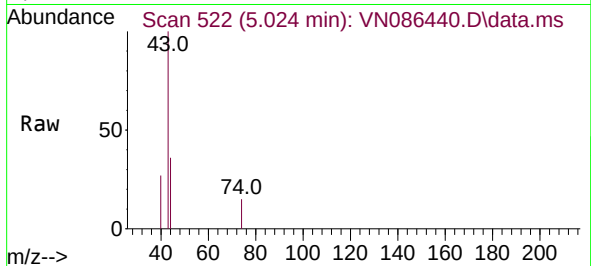




#18
Methyl Acetate
Concen: 1.233 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

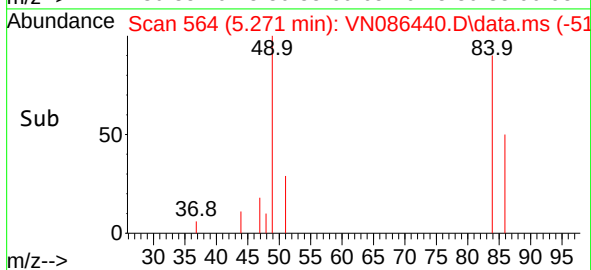
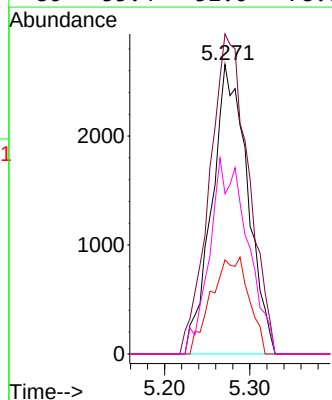
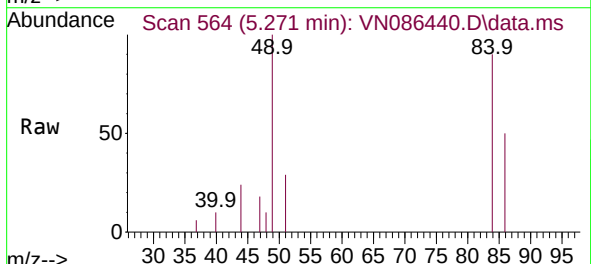
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

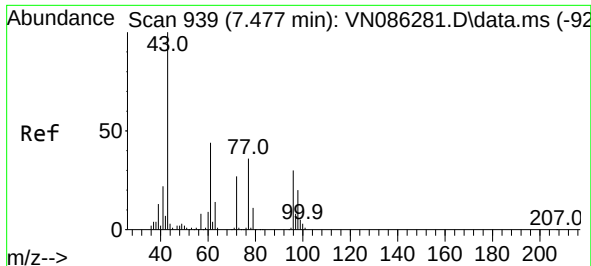
Tgt Ion: 43 Resp: 3522
Ion Ratio Lower Upper
43 100
74 5.9 19.8 29.6#



#20
Methylene Chloride
Concen: 3.516 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 84 Resp: 7736
Ion Ratio Lower Upper
84 100
49 110.6 98.2 147.2
51 32.5 29.8 44.6
86 55.4 52.0 78.0

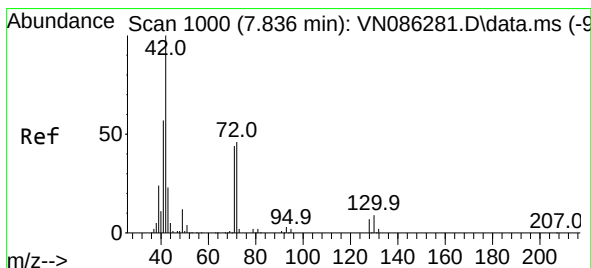
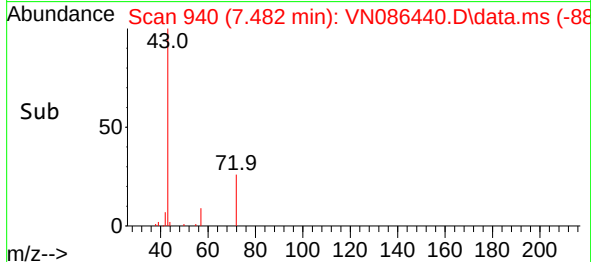
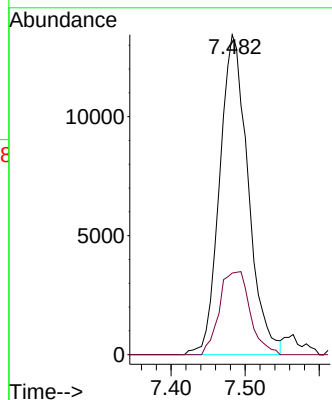
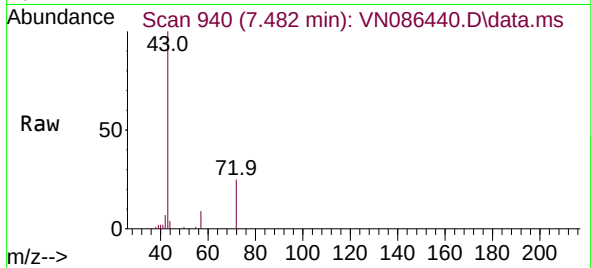




#25
2-Butanone
Concen: 24.187 ug/l
RT: 7.482 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

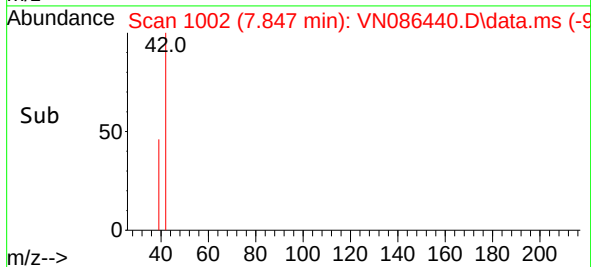
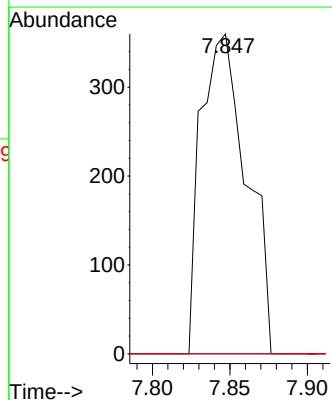
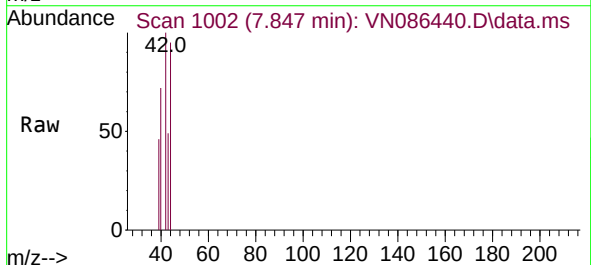
Instrument :
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ClientSampleId :
PB167775ZHE#10

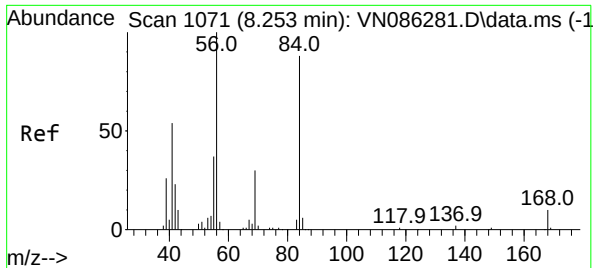
Tgt Ion: 43 Resp: 35835
Ion Ratio Lower Upper
43 100
72 25.5 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.748 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 42 Resp: 741
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#

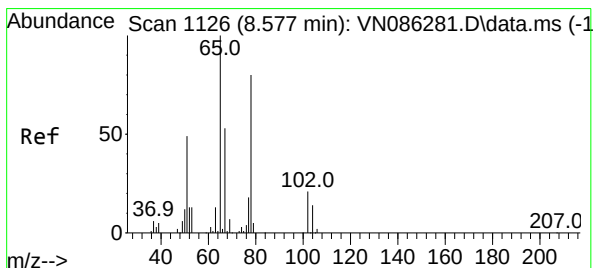
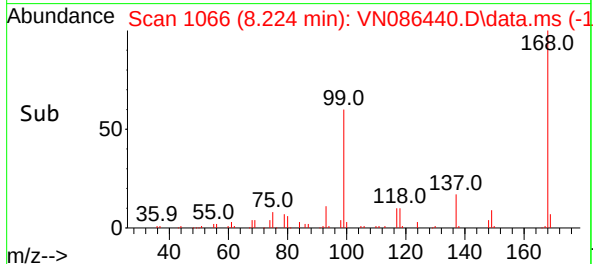
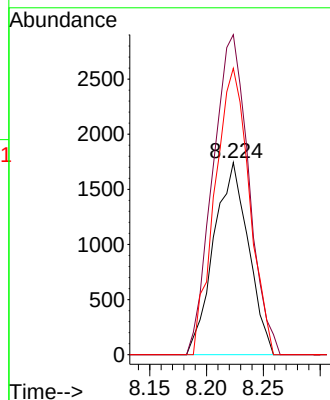
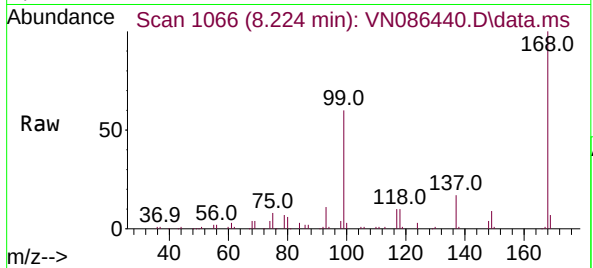




#31
Cyclohexane
Concen: 0.959 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

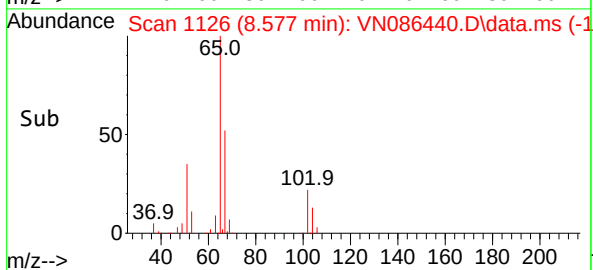
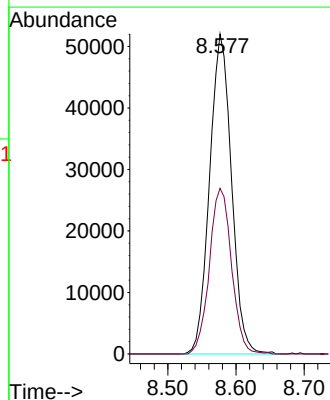
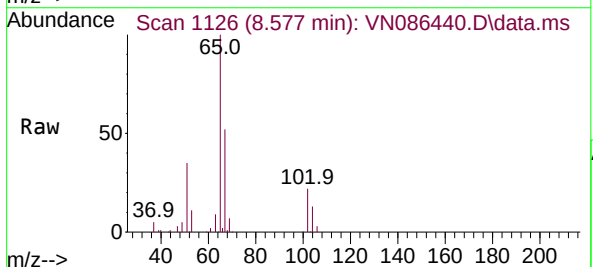
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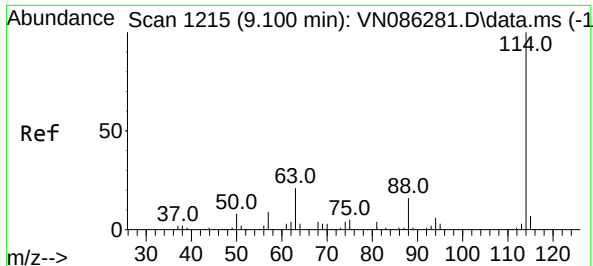
Tgt Ion: 56 Resp: 3698
Ion Ratio Lower Upper
56 100
69 166.6 24.2 36.2#
84 149.1 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.841 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 65 Resp: 116255
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#10

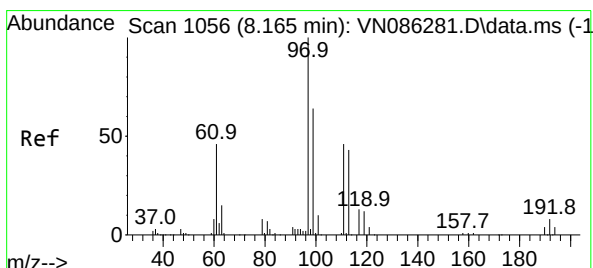
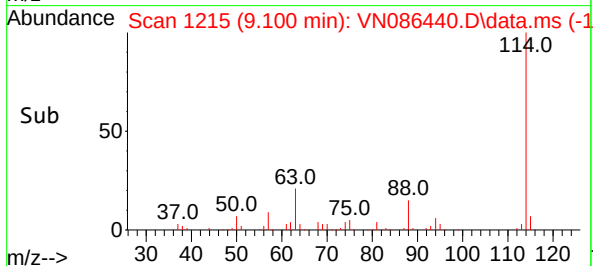
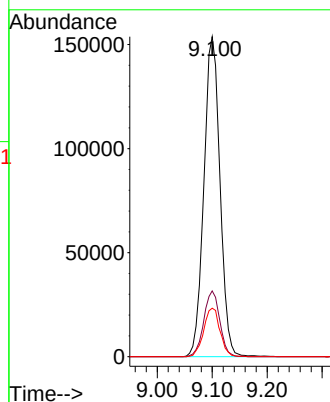
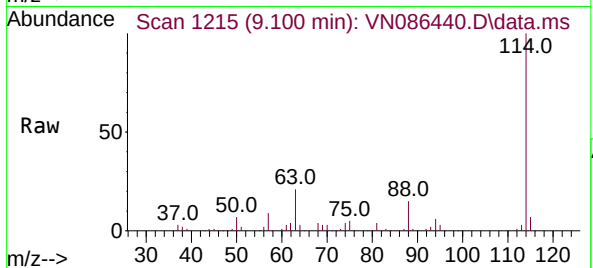
Tgt Ion:114 Resp: 312852

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 51.016 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

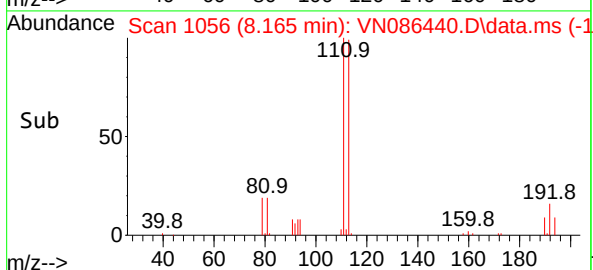
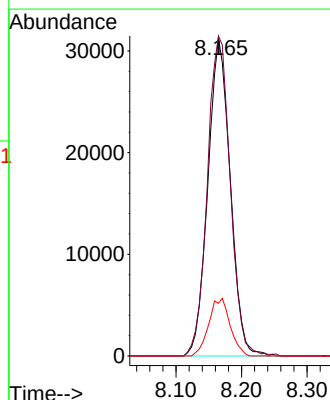
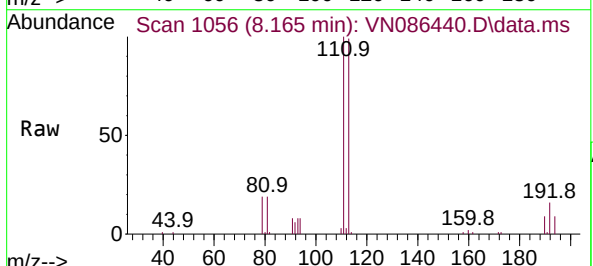
Tgt Ion:113 Resp: 74074

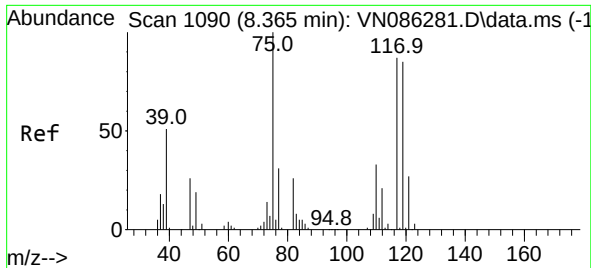
Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.0

192 17.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.789 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086440.D

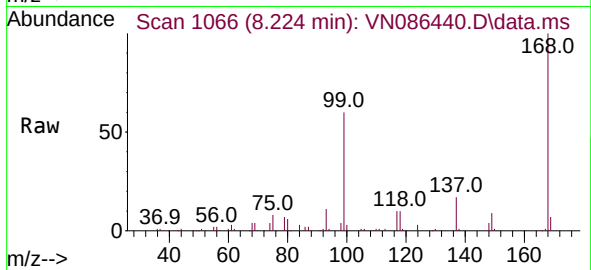
Acq: 30 Apr 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#10



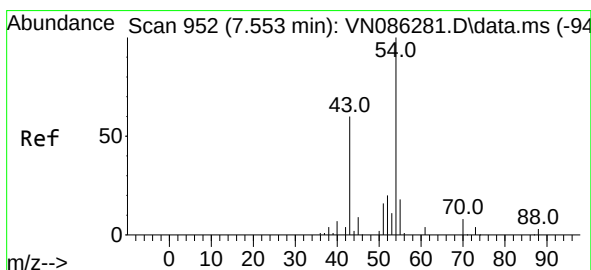
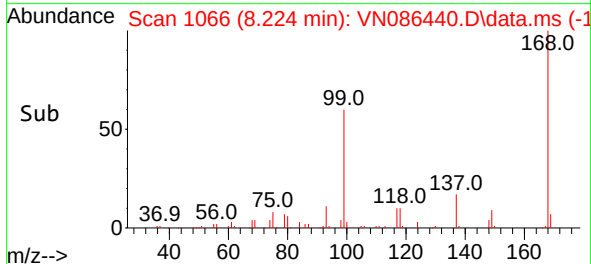
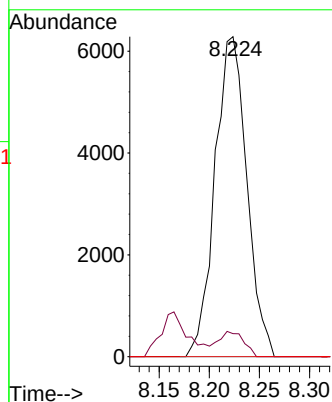
Tgt Ion: 75 Resp: 13889

Ion Ratio Lower Upper

75 100

110 6.2 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.470 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

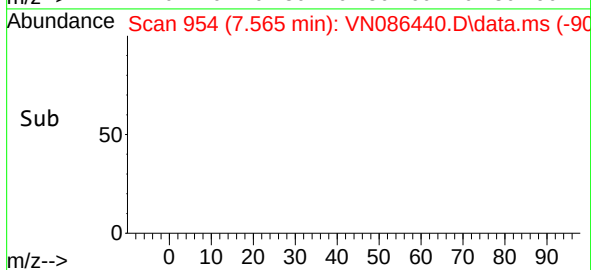
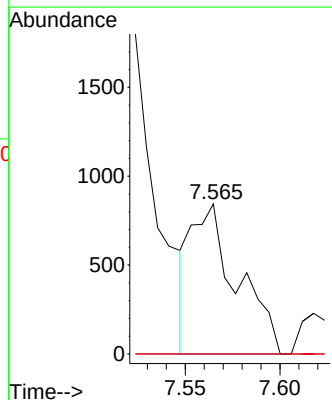
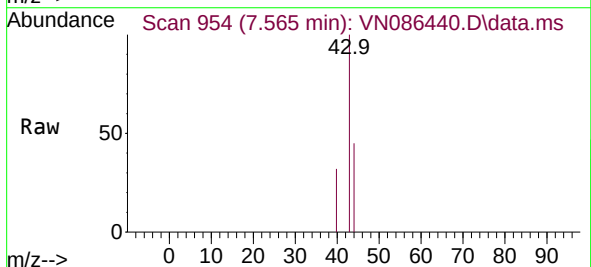
Tgt Ion: 43 Resp: 1435

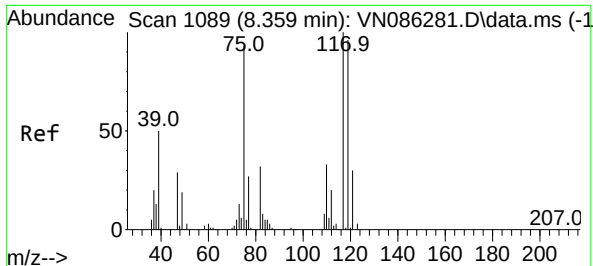
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

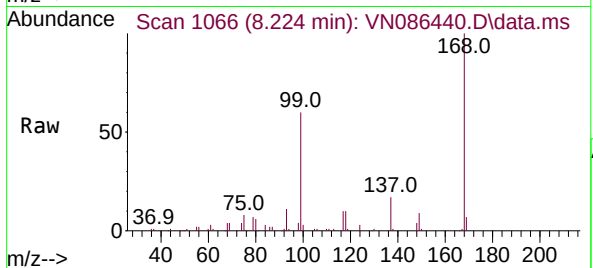
70 0.0 9.2 13.8#



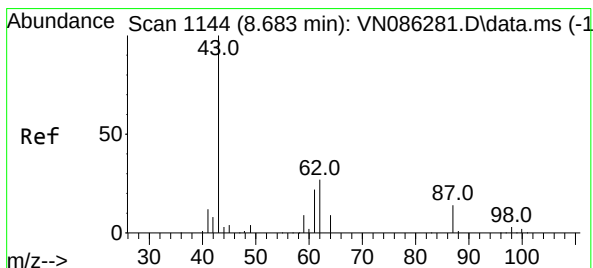
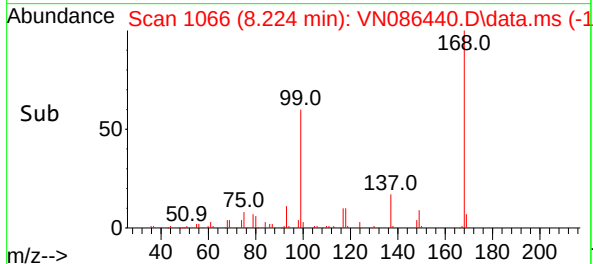
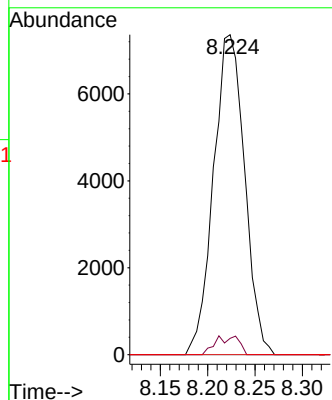


#38
Carbon Tetrachloride
Concen: 6.092 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

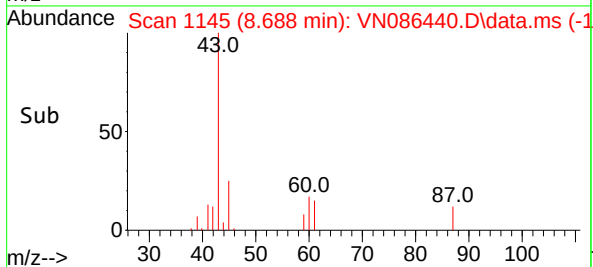
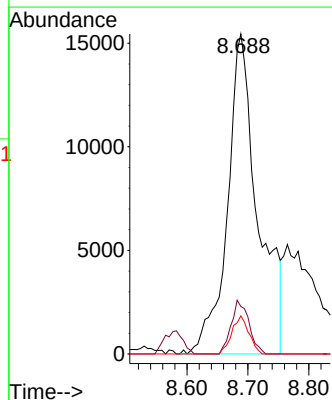
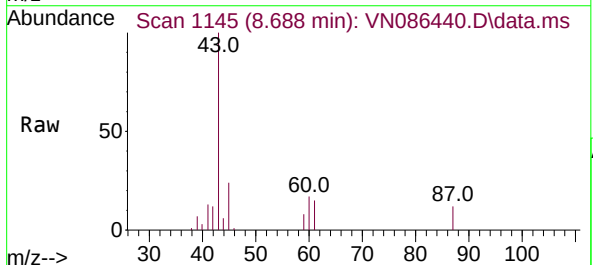


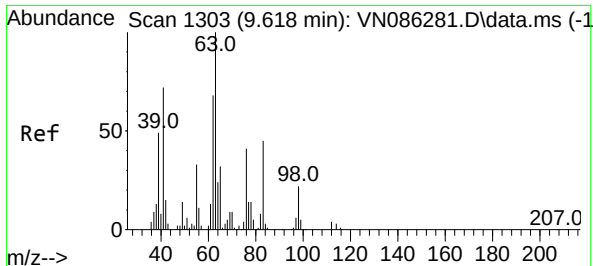
Tgt Ion:117 Resp: 16826
Ion Ratio Lower Upper
117 100
119 5.1 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 8.080 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 43 Resp: 53680
Ion Ratio Lower Upper
43 100
61 9.8 20.5 30.7#
87 6.6 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.385 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

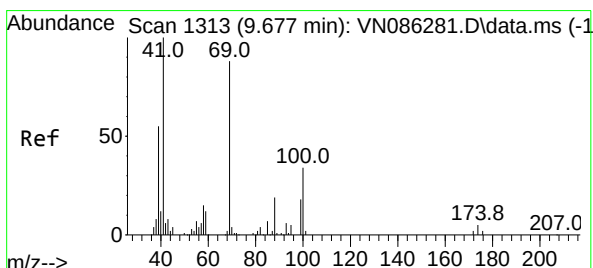
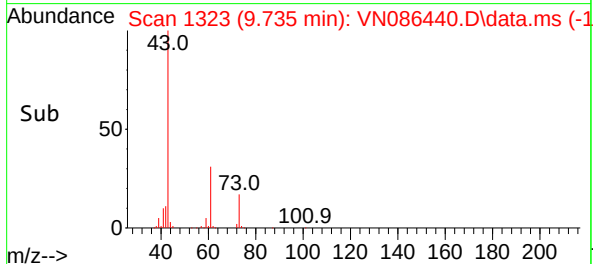
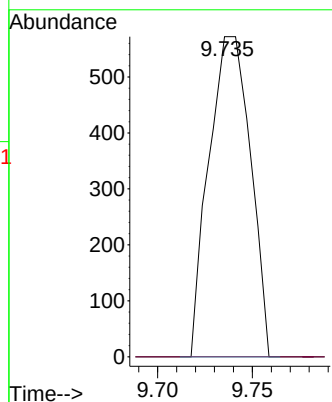
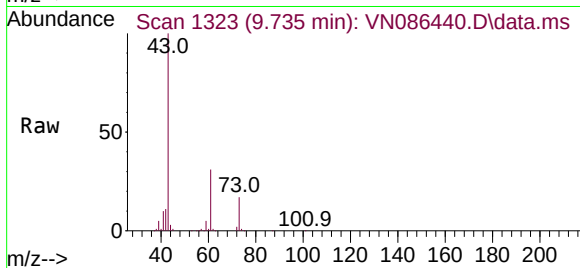
PB167775ZHE#10

Tgt Ion: 63 Resp: 876

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.893 ug/l

RT: 9.647 min Scan# 1308

Delta R.T. -0.030 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

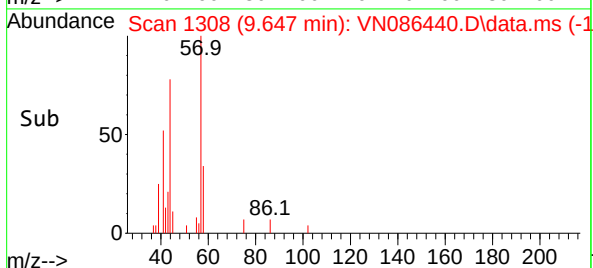
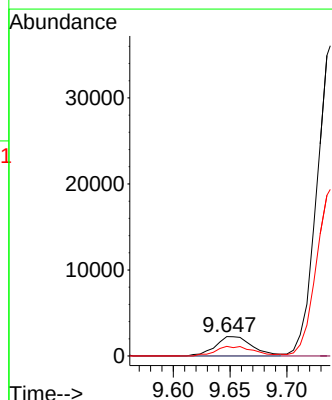
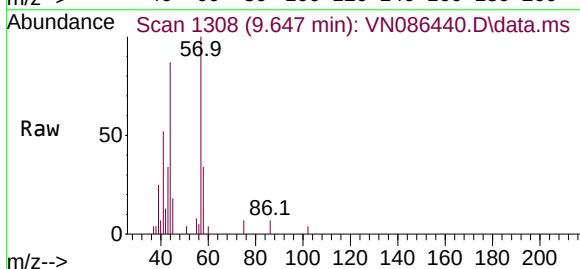
Tgt Ion: 41 Resp: 5076

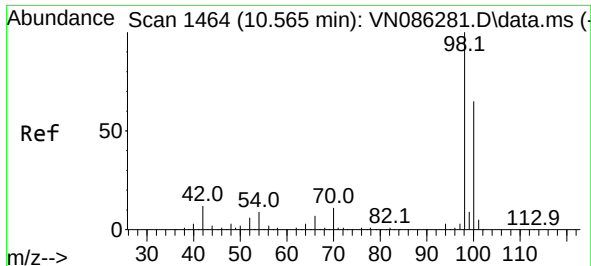
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 49.9 45.2 67.8

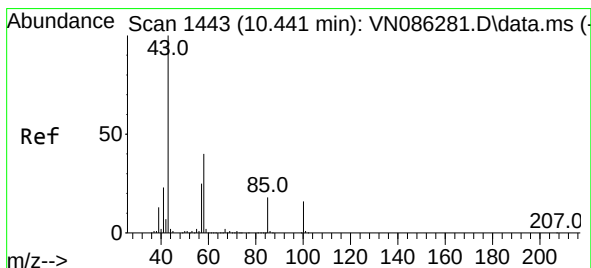
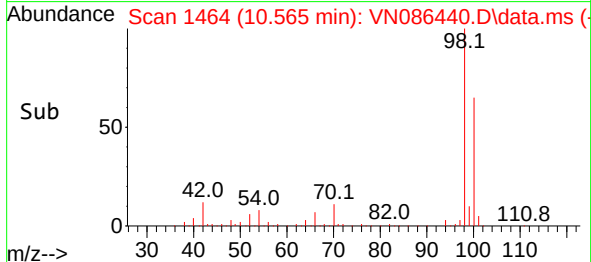
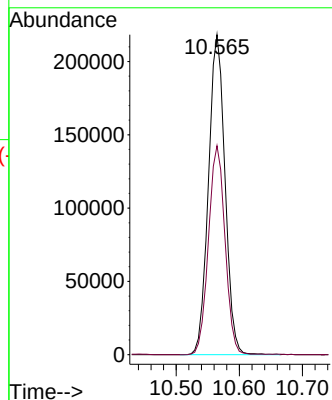
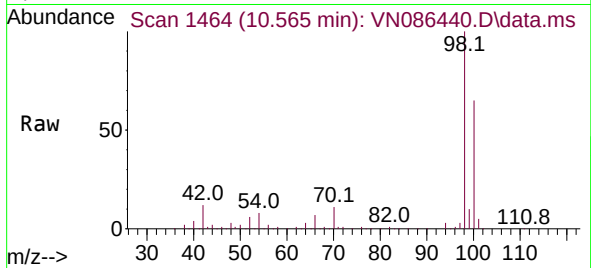




#50
Toluene-d8
Concen: 51.198 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

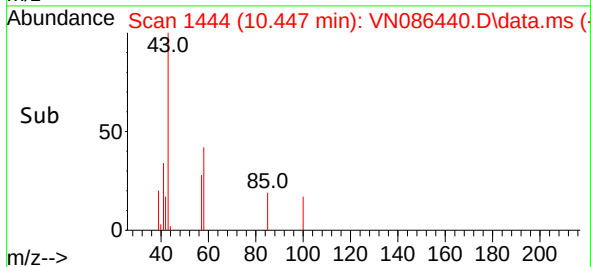
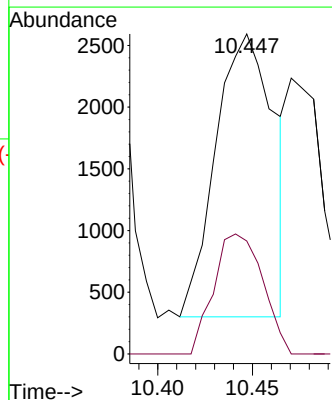
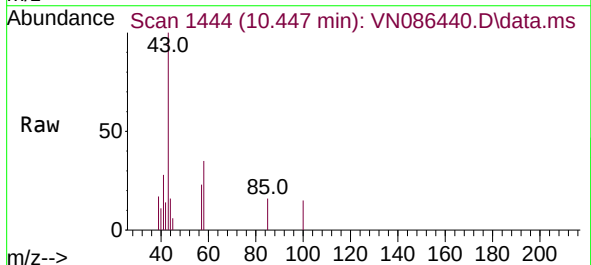
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

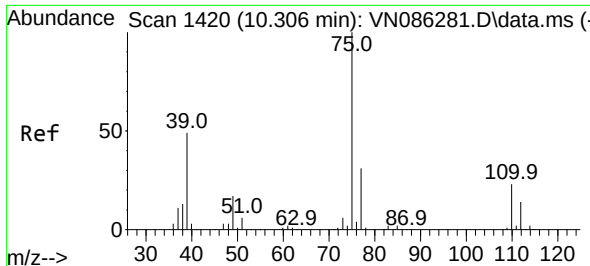
Tgt Ion: 98 Resp: 397306
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.556 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 43 Resp: 4864
Ion Ratio Lower Upper
43 100
58 35.9 32.2 48.4

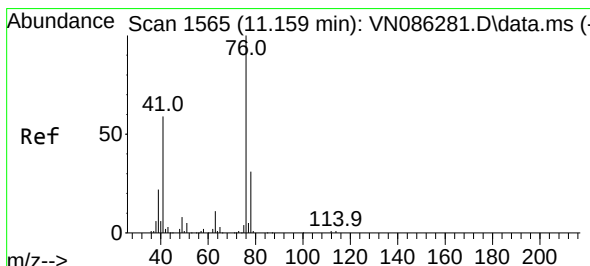
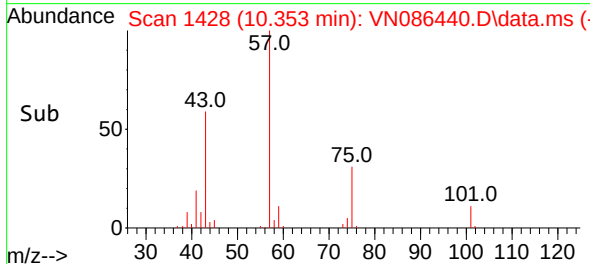
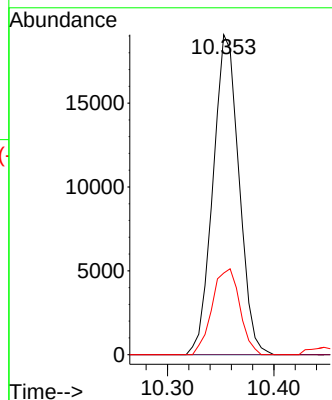
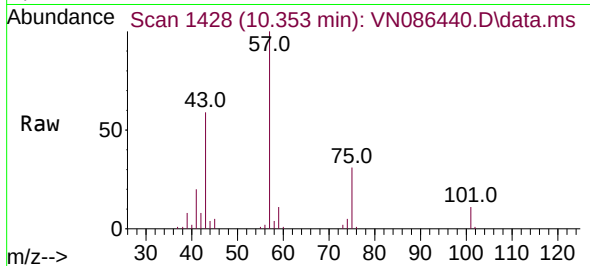




#54
 cis-1,3-Dichloropropene
 Concen: 8.424 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086440.D
 Acq: 30 Apr 2025 16:40

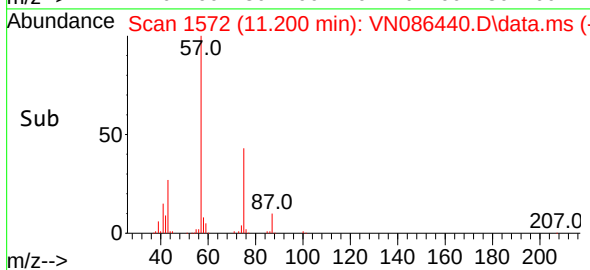
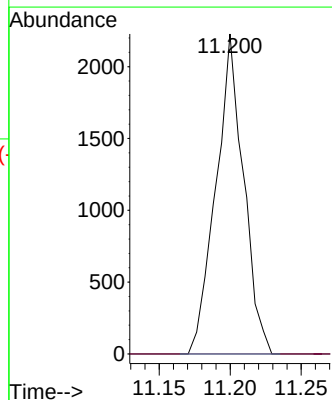
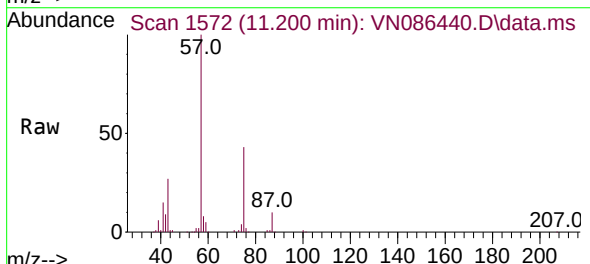
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#10

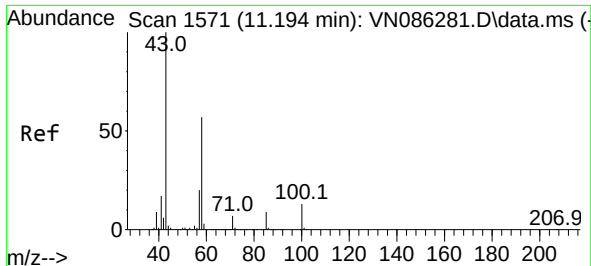
Tgt Ion: 75 Resp: 32326
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.814 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086440.D
 Acq: 30 Apr 2025 16:40

Tgt Ion: 76 Resp: 3011
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

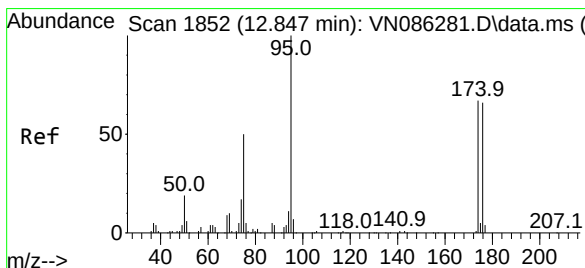
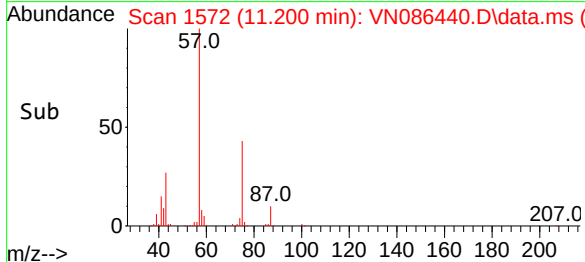
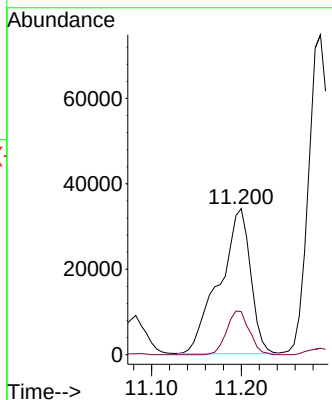
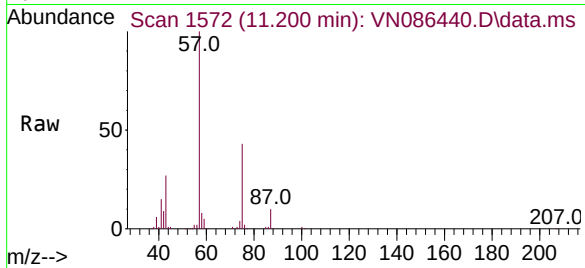




#59
2-Hexanone
Concen: 35.239 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

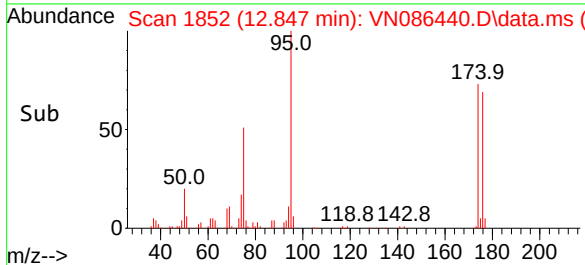
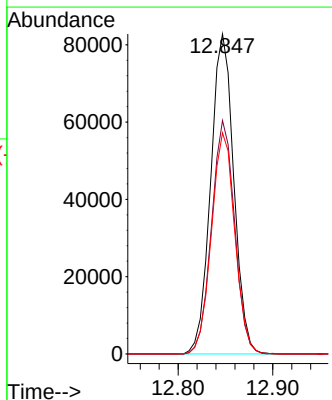
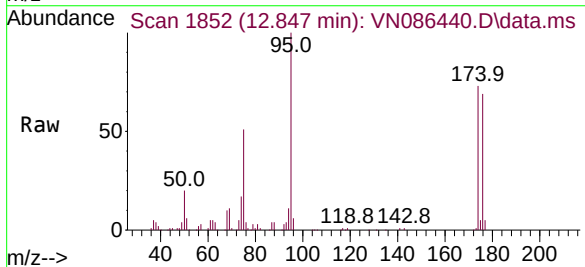
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

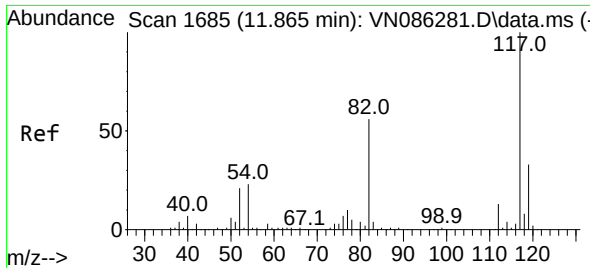
Tgt Ion: 43 Resp: 81720
Ion Ratio Lower Upper
43 100
58 21.9 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.453 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion: 95 Resp: 139975
Ion Ratio Lower Upper
95 100
174 73.0 0.0 133.4
176 70.1 0.0 129.2

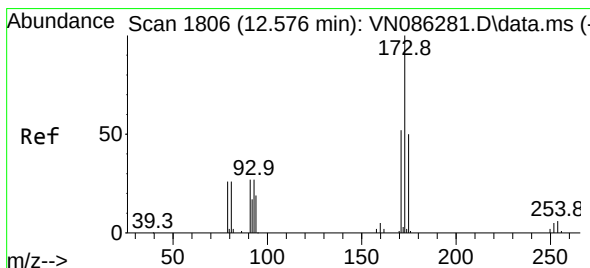
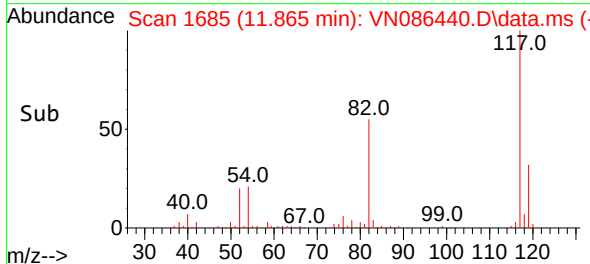
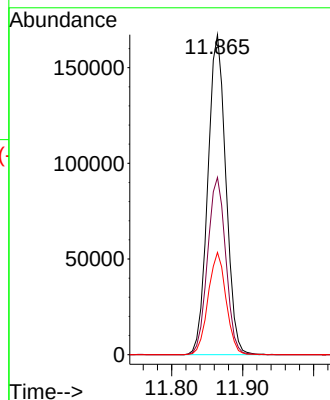
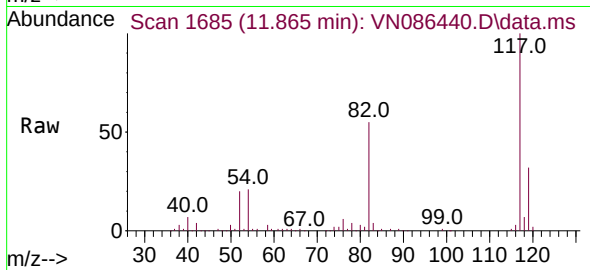




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

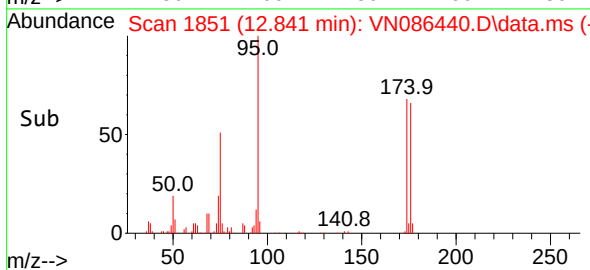
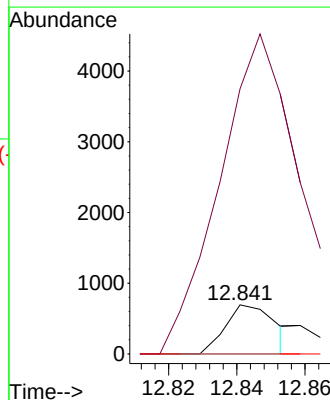
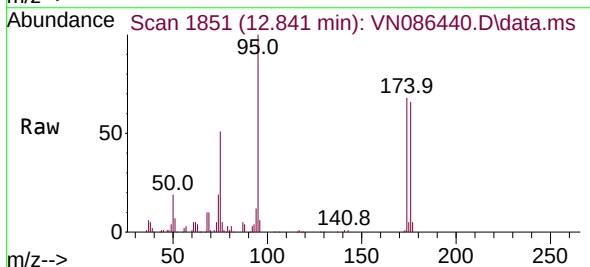
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#10

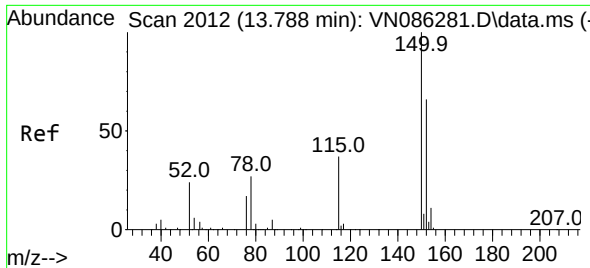
Tgt Ion:117 Resp: 295032
Ion Ratio Lower Upper
117 100
82 55.4 44.7 67.1
119 31.9 26.4 39.6



#71
Bromoform
Concen: 0.430 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086440.D
Acq: 30 Apr 2025 16:40

Tgt Ion:173 Resp: 703
Ion Ratio Lower Upper
173 100
175 820.8 24.6 73.6#
254 0.0 0.0 0.0

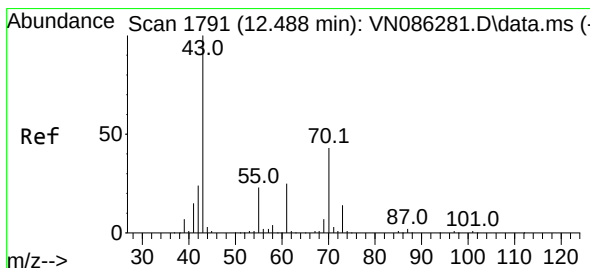
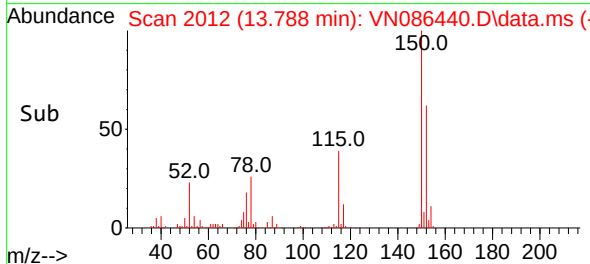
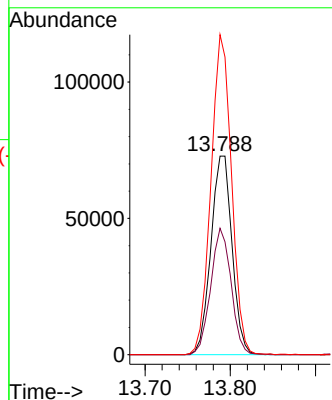
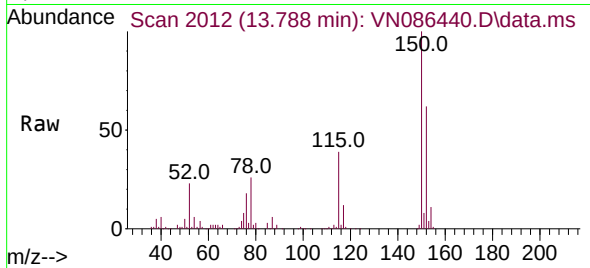




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086440.D
 Acq: 30 Apr 2025 16:40

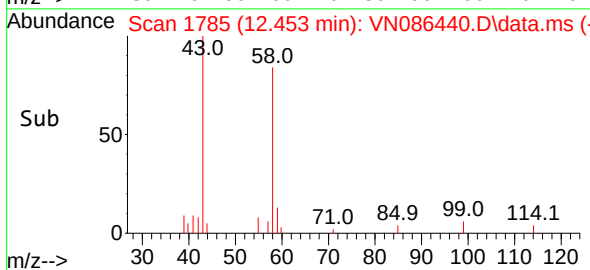
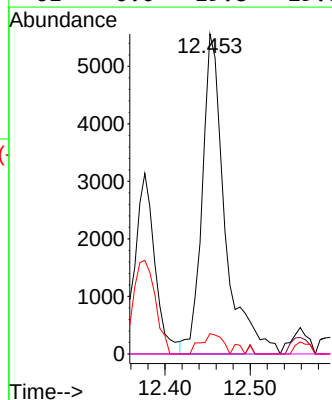
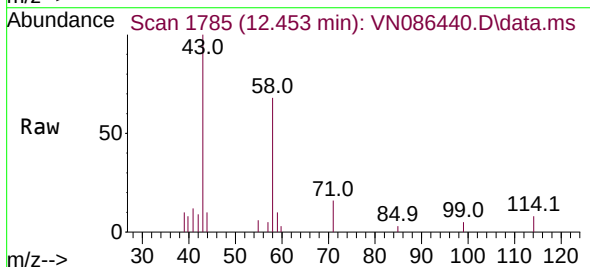
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#10

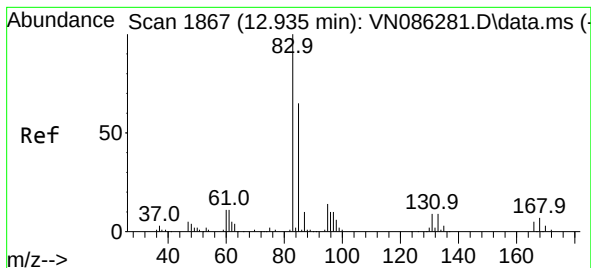
Tgt Ion:152 Resp: 125701
 Ion Ratio Lower Upper
 152 100
 115 61.2 31.9 95.9
 150 156.3 0.0 352.0



#74
 N-ethyl acetate
 Concen: 2.010 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.035 min
 Lab File: VN086440.D
 Acq: 30 Apr 2025 16:40

Tgt Ion: 43 Resp: 10287
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 6.0 19.0 28.4#
 61 0.0 19.8 29.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.270 ug/l

RT: 12.953 min Scan# 1867

Delta R.T. 0.018 min

Lab File: VN086440.D

Acq: 30 Apr 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#10

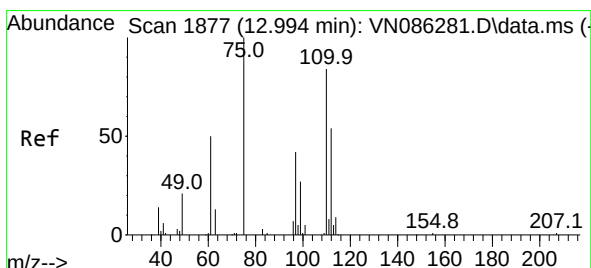
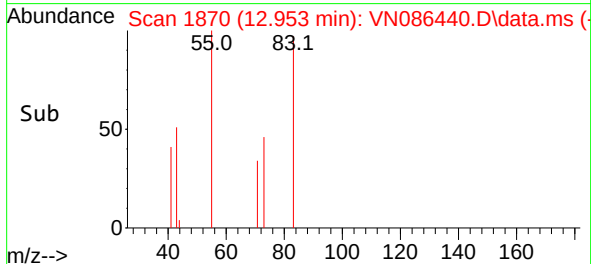
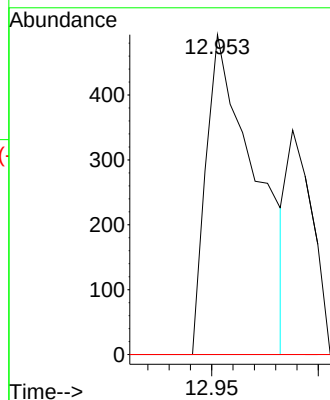
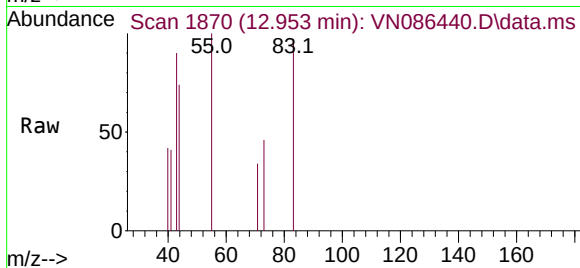
Tgt Ion: 83 Resp: 798

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 0.0 32.7 98.1#



#76

1,2,3-Trichloropropane

Concen: 24.039 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086440.D

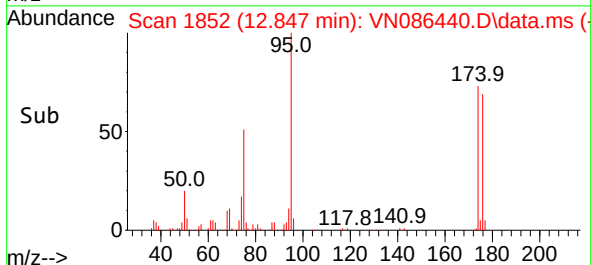
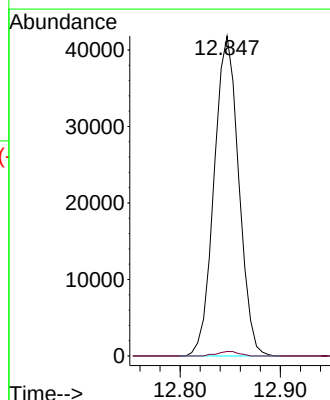
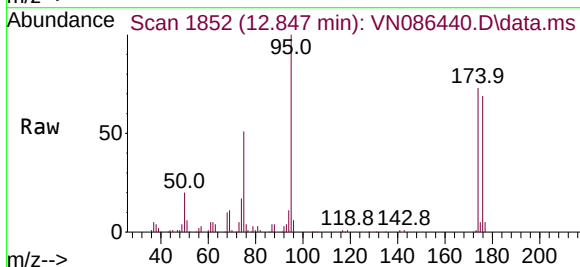
Acq: 30 Apr 2025 16:40

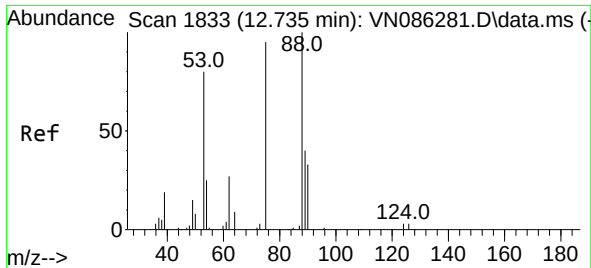
Tgt Ion: 75 Resp: 71309

Ion Ratio Lower Upper

75 100

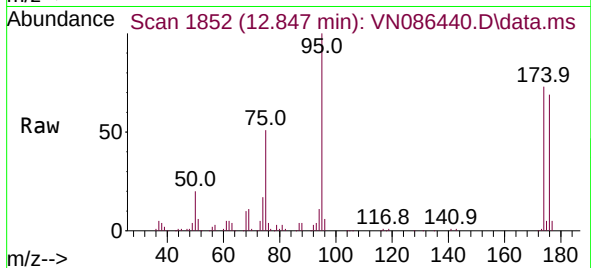
77 1.3 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.733 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086440.D
 Acq: 30 Apr 2025 16:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#10



Tgt Ion: 75 Resp: 71309
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

