

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086644.D
 Acq On : 15 May 2025 14:47
 Operator : JC\MD
 Sample : PB167995ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#06

Quant Time: May 16 05:27:59 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)

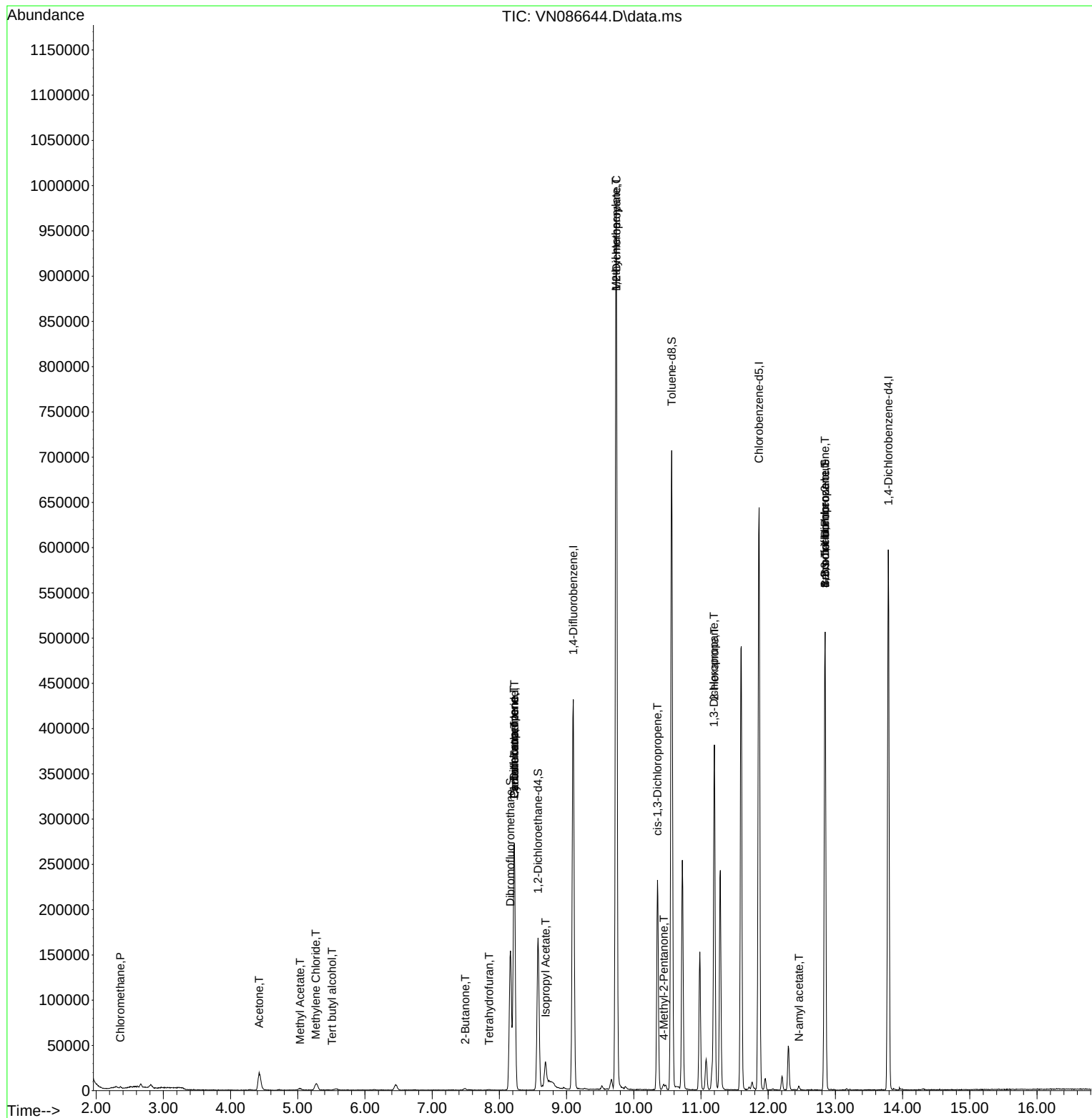
Internal Standards						
1) Pentafluorobenzene	8.224	168	208243	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	391928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	391775	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	168726	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	140492	46.525	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.060%
35) Dibromofluoromethane	8.165	113	115911	63.723	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	127.440%#
50) Toluene-d8	10.565	98	505825	52.031	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.060%
62) 4-Bromofluorobenzene	12.847	95	189423	53.421	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.840%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	788	0.220	ug/l	93
11) Tert butyl alcohol	5.512	59	149	0.270	ug/l #	72
13) Acrolein	4.194	56	53	Below Cal	#	13
16) Acetone	4.424	43	37786	31.197	ug/l	100
18) Methyl Acetate	5.036	43	3802	1.049	ug/l	94
20) Methylene Chloride	5.271	84	6627	2.374	ug/l #	80
25) 2-Butanone	7.494	43	3235	1.721	ug/l	90
29) Tetrahydrofuran	7.847	42	671	0.534	ug/l #	32
31) Cyclohexane	8.224	56	4333	0.885	ug/l #	3
36) 1,1-Dichloropropene	8.218	75	16371	4.506	ug/l #	49
38) Carbon Tetrachloride	8.224	117	20643	5.966	ug/l #	16
43) Isopropyl Acetate	8.688	43	41495	4.257	ug/l #	81
45) 1,2-Dichloropropane	9.741	63	1477	0.518	ug/l #	43
48) Methyl methacrylate	9.735	41	86634	25.792	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	3515	0.897	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	45569	9.479	ug/l #	57
57) 1,3-Dichloropropane	11.194	76	4367	0.942	ug/l #	43
59) 2-Hexanone	11.200	43	71818	24.721	ug/l #	43
71) Bromoform	12.847	173	857	0.395	ug/l #	1
74) N-amyl acetate	12.459	43	3350	0.488	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	92237	23.165	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	92237	55.635	ug/l #	10

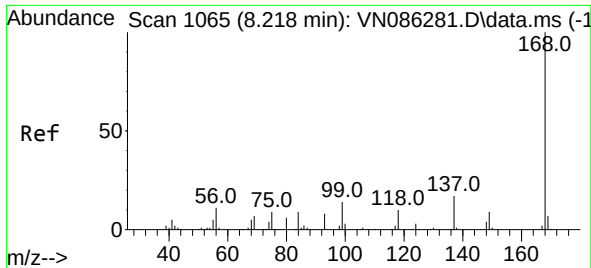
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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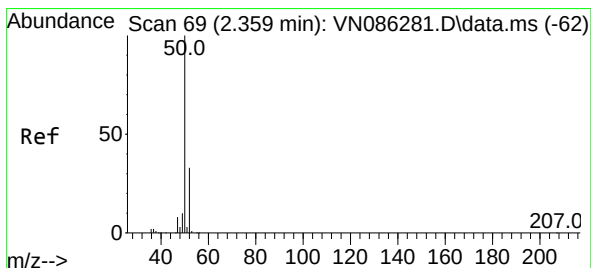
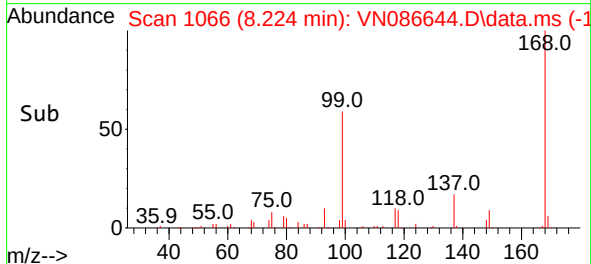
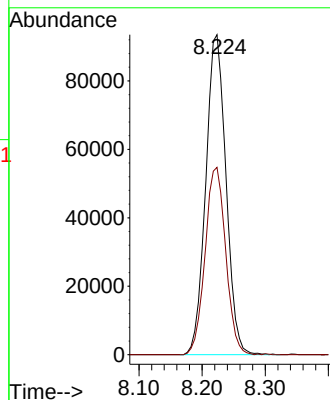
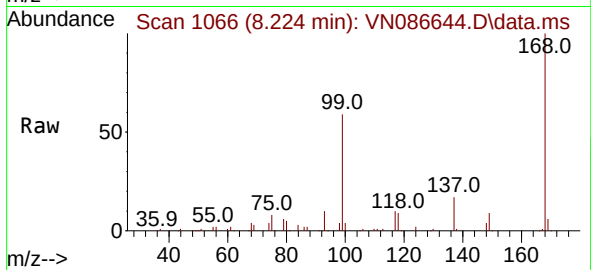




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

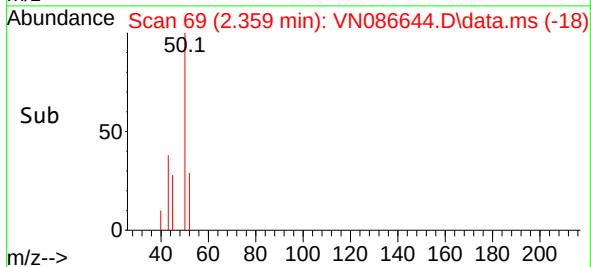
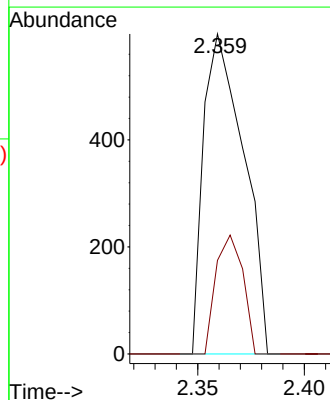
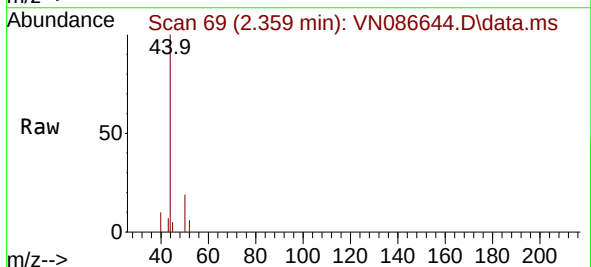
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

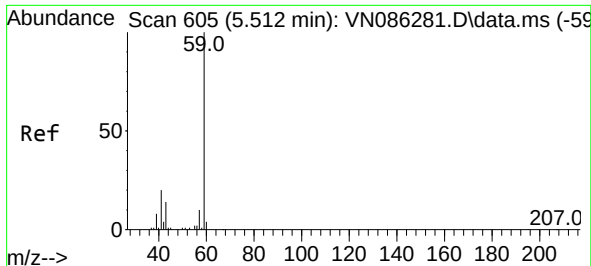
Tgt Ion:168 Resp: 208243
Ion Ratio Lower Upper
168 100
99 58.6 52.5 78.7



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

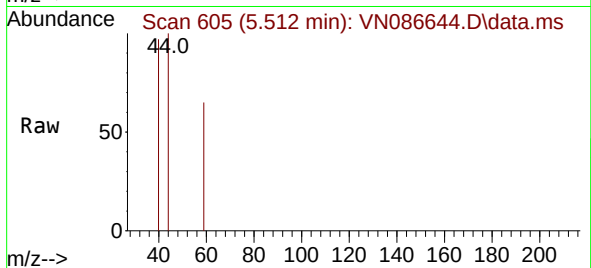
Tgt Ion: 50 Resp: 788
Ion Ratio Lower Upper
50 100
52 29.3 26.5 39.7



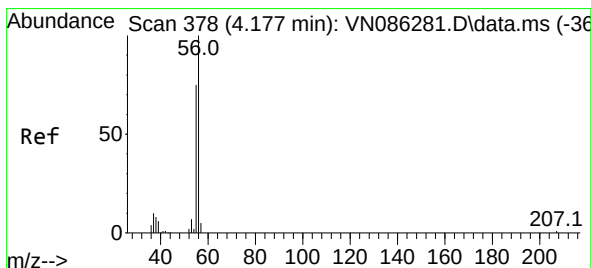
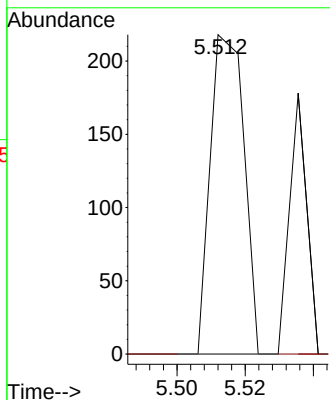
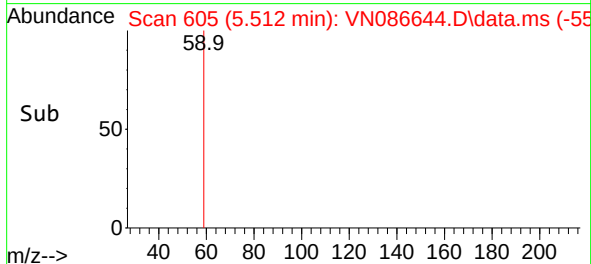


#11
Tert butyl alcohol
Concen: 0.270 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

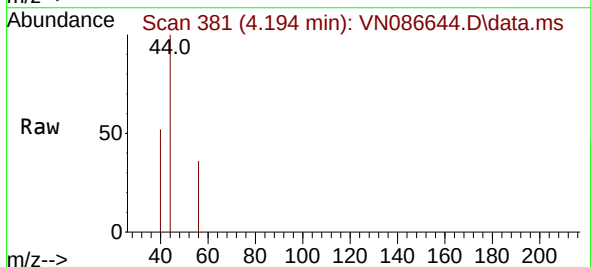
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06



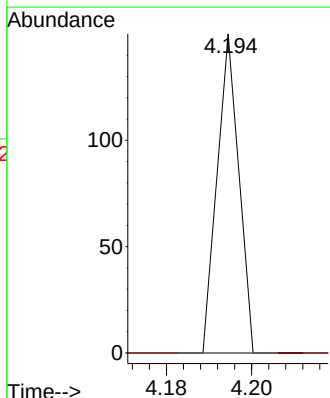
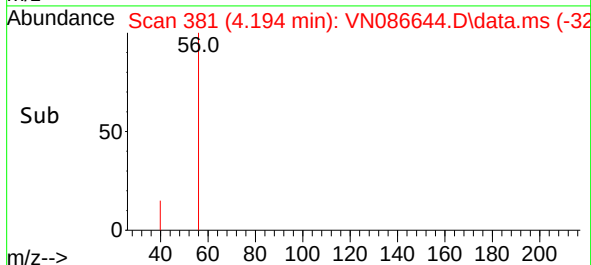
Tgt Ion: 59 Resp: 149
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

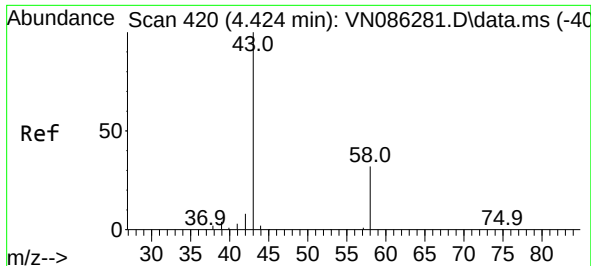


#13
Acrolein
Concen: Below Cal
RT: 4.194 min Scan# 381
Delta R.T. 0.017 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47



Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

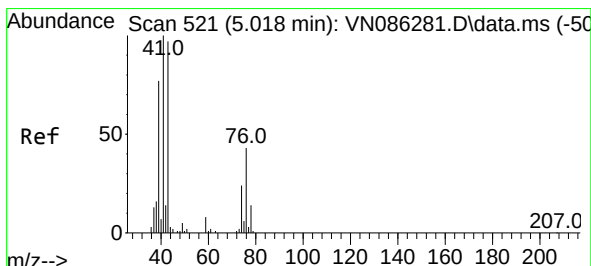
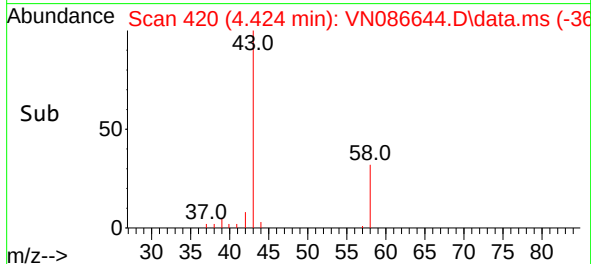
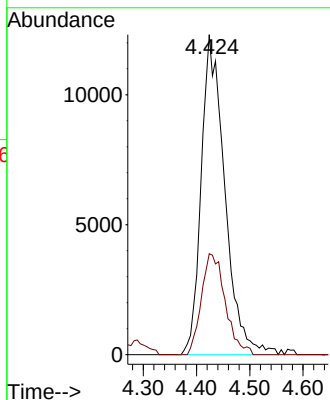
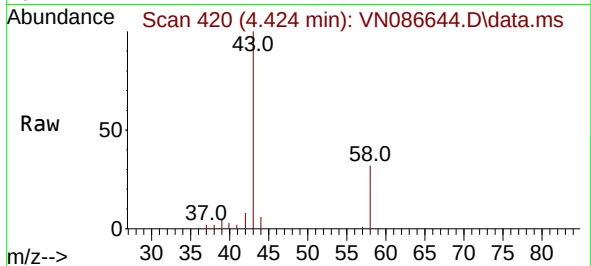




#16
Acetone
Concen: 31.197 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

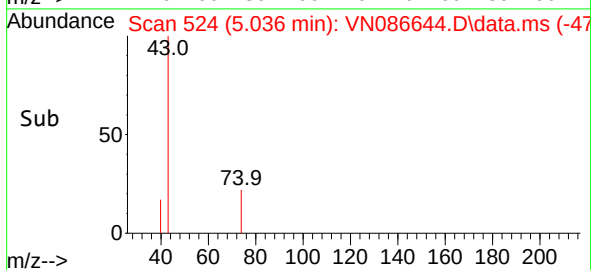
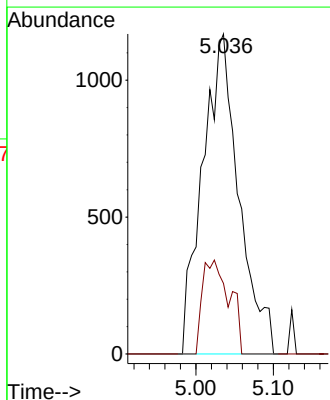
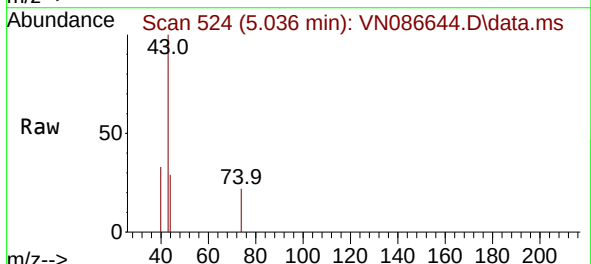
Instrument :
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ClientSampleId :
PB167995ZHE#06

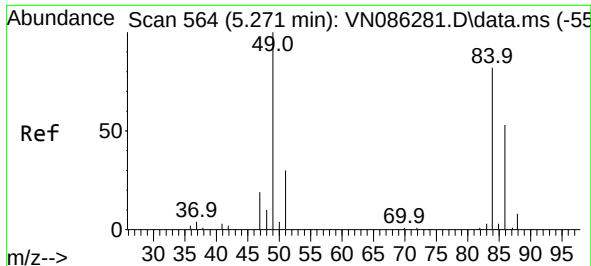
Tgt Ion: 43 Resp: 37786
Ion Ratio Lower Upper
43 100
58 31.6 25.3 37.9



#18
Methyl Acetate
Concen: 1.049 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

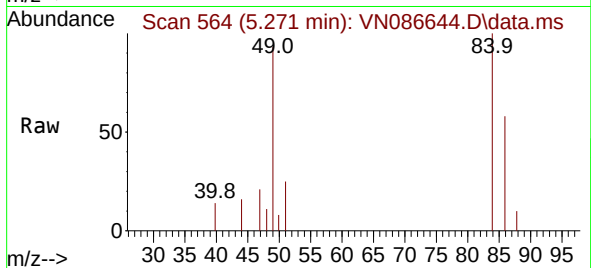
Tgt Ion: 43 Resp: 3802
Ion Ratio Lower Upper
43 100
74 21.8 19.8 29.6



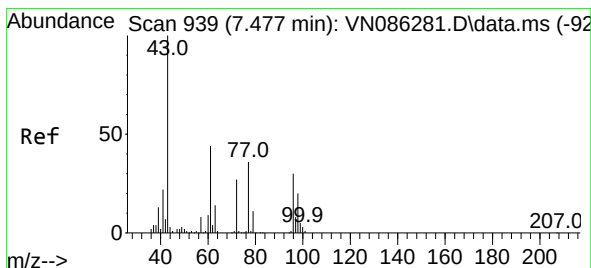
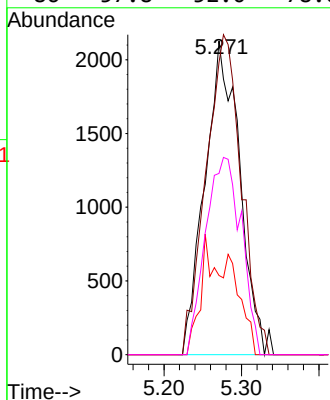
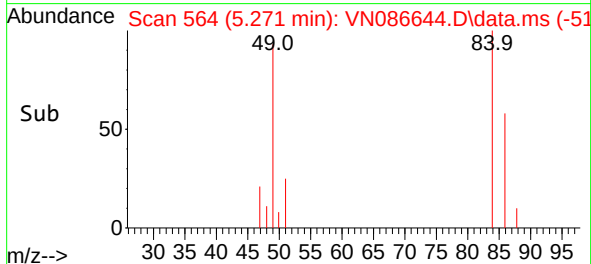


#20
Methylene Chloride
Concen: 2.374 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

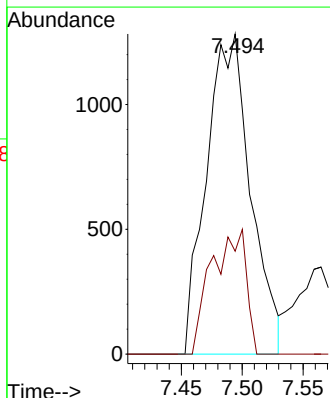
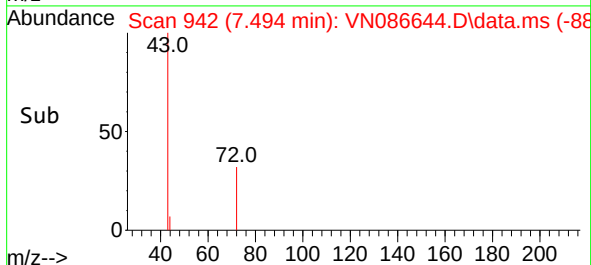
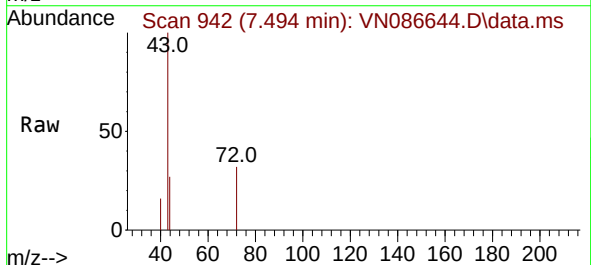


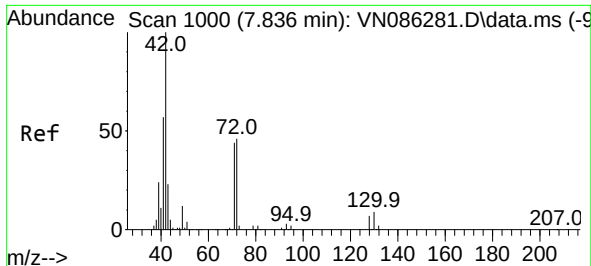
Tgt Ion:	84	Resp:	6627
Ion	Ratio	Lower	Upper
84	100		
49	93.1	98.2	147.2#
51	25.2	29.8	44.6#
86	57.8	52.0	78.0



#25
2-Butanone
Concen: 1.721 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion:	43	Resp:	3235
Ion	Ratio	Lower	Upper
43	100		
72	32.1	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.534 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086644.D

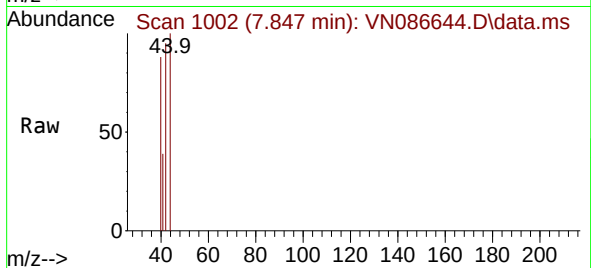
Acq: 15 May 2025 14:47

Instrument :

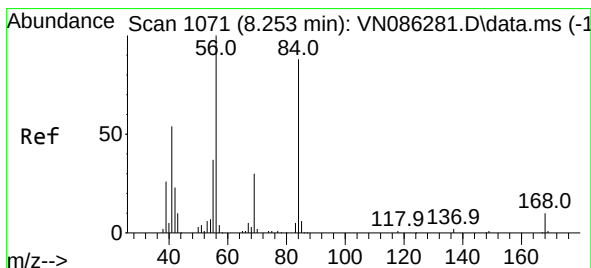
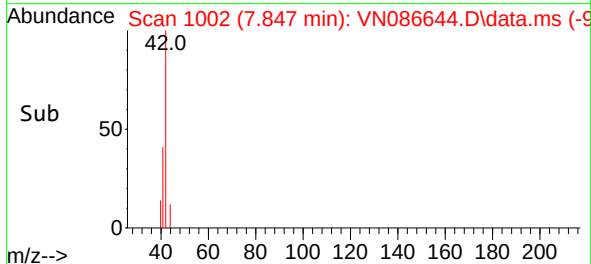
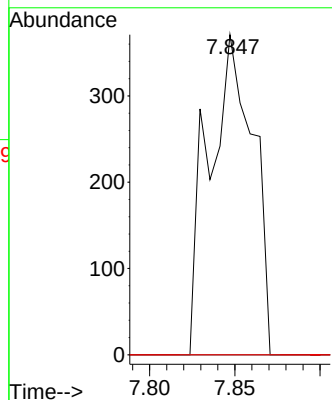
MSVOA_N

ClientSampleId :

PB167995ZHE#06



Tgt Ion:	42	Resp:	671
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.885 ug/l

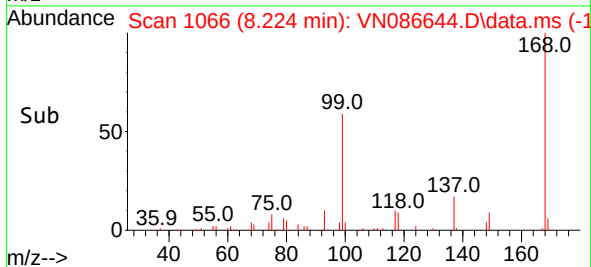
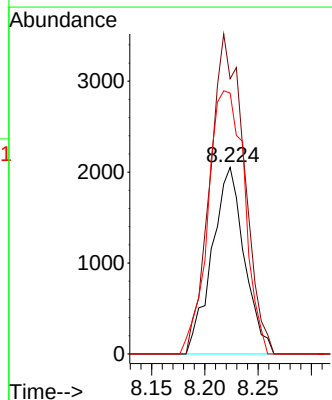
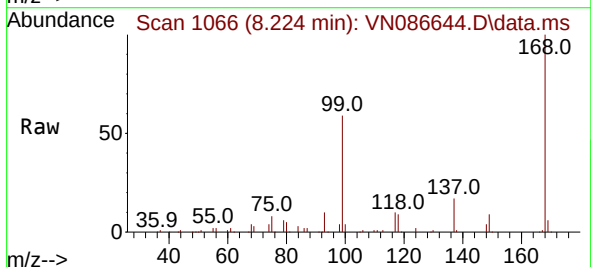
RT: 8.224 min Scan# 1066

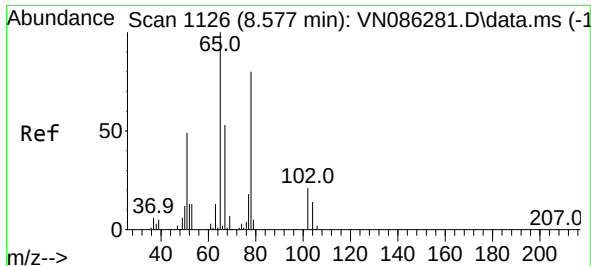
Delta R.T. -0.030 min

Lab File: VN086644.D

Acq: 15 May 2025 14:47

Tgt Ion:	56	Resp:	4333
Ion Ratio	Lower	Upper	
56	100		
69	147.6	24.2	36.2#
84	139.9	70.3	105.5#

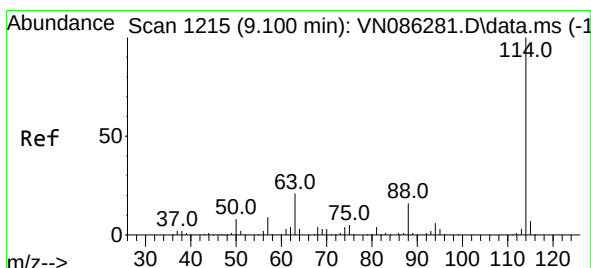
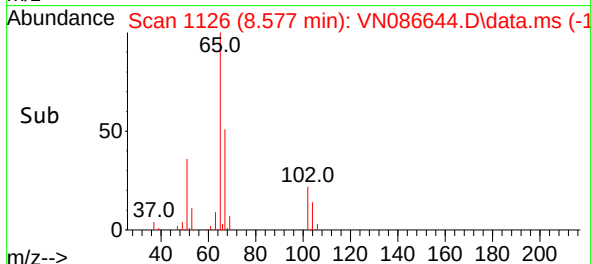
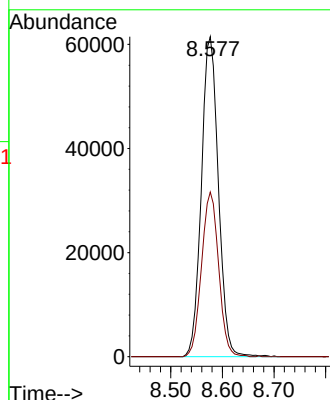
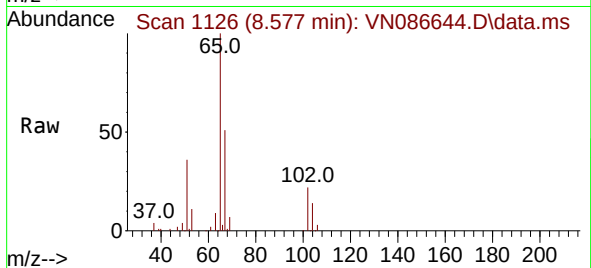




#33
 1,2-Dichloroethane-d4
 Concen: 46.525 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086644.D
 Acq: 15 May 2025 14:47

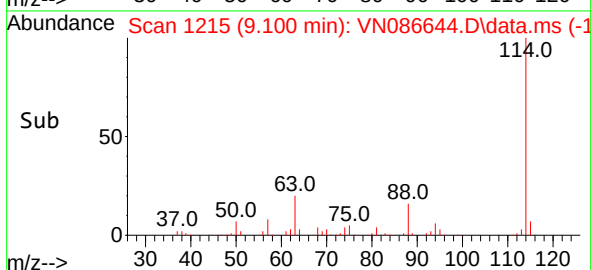
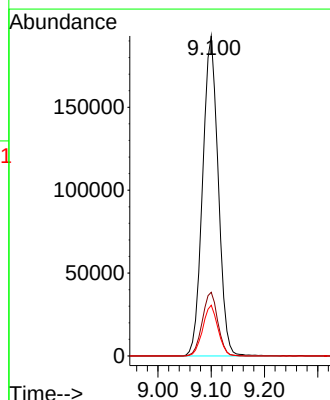
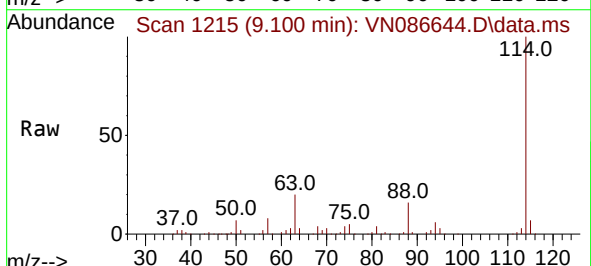
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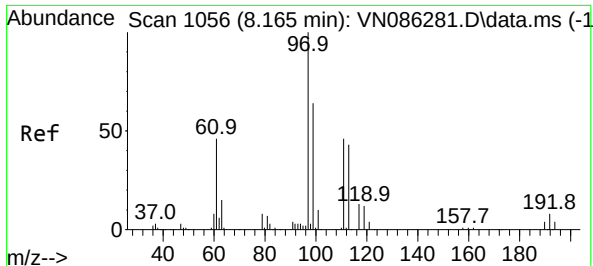
Tgt Ion: 65 Resp: 140492
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086644.D
 Acq: 15 May 2025 14:47

Tgt Ion: 114 Resp: 391928
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.6
 88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.723 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086644.D

Acq: 15 May 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#06

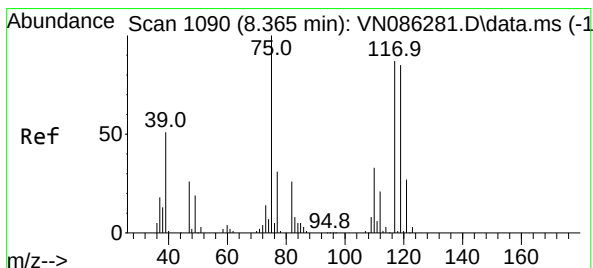
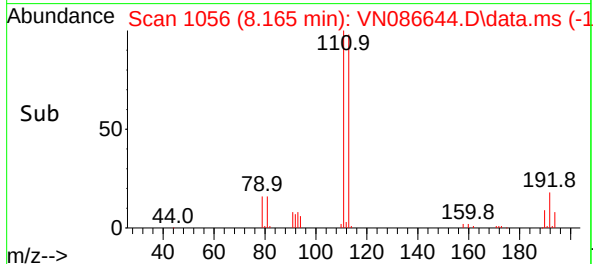
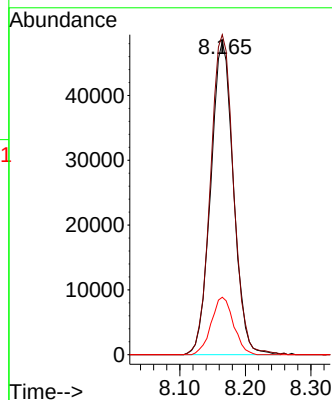
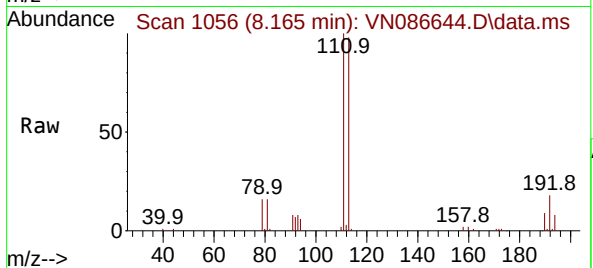
Tgt Ion:113 Resp: 115911

Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.0

192 18.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.506 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086644.D

Acq: 15 May 2025 14:47

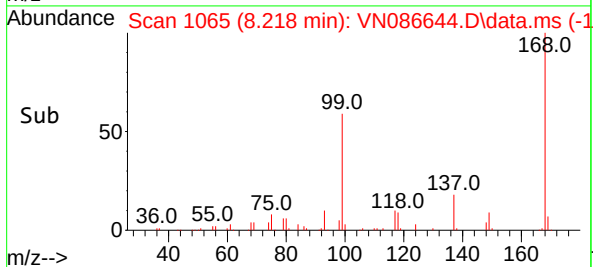
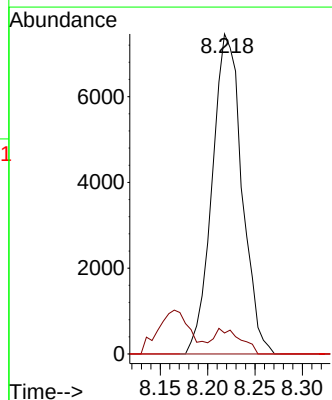
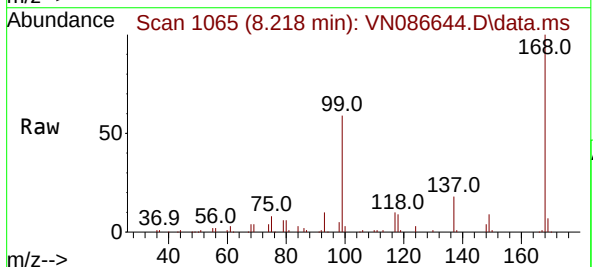
Tgt Ion: 75 Resp: 16371

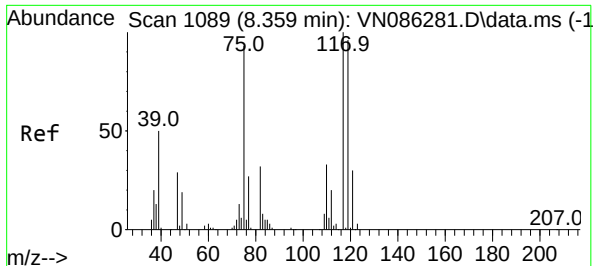
Ion Ratio Lower Upper

75 100

110 7.0 16.8 50.4#

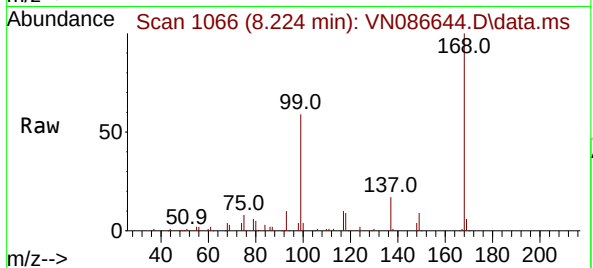
77 0.0 24.9 37.3#



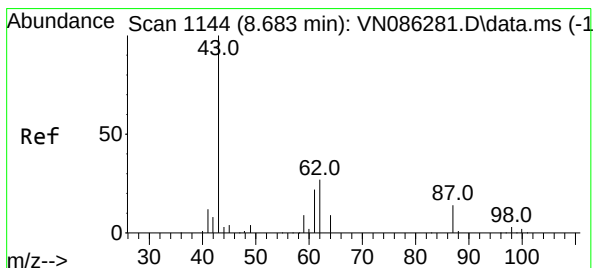
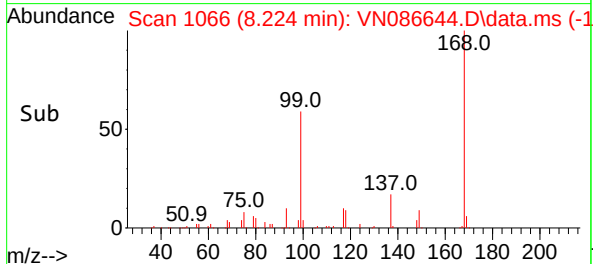
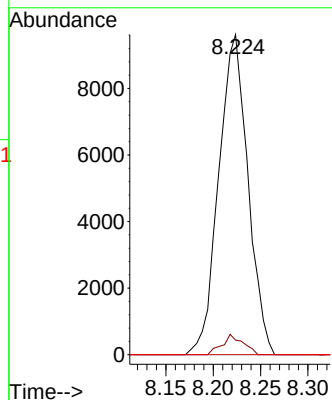


#38
Carbon Tetrachloride
Concen: 5.966 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

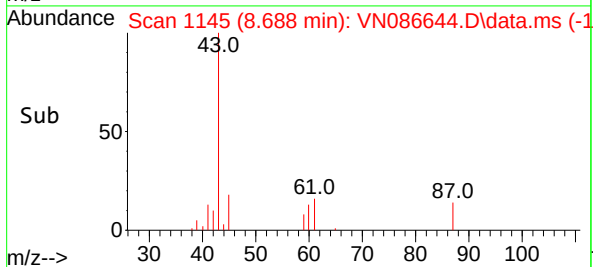
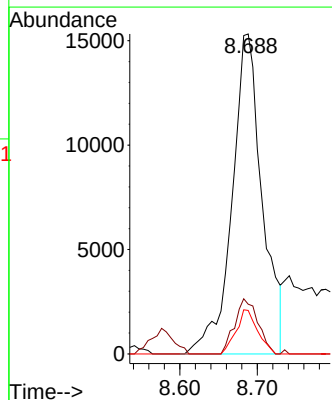
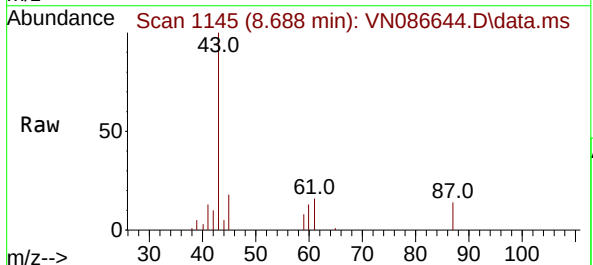


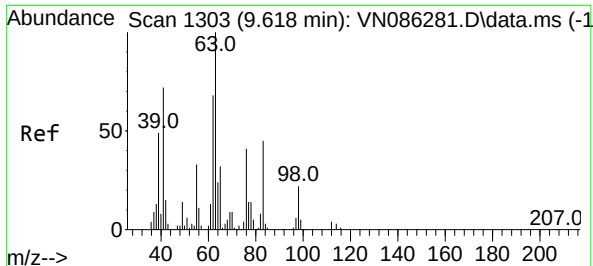
Tgt Ion:117 Resp: 20643
Ion Ratio Lower Upper
117 100
119 4.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 4.257 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion: 43 Resp: 41495
Ion Ratio Lower Upper
43 100
61 13.3 20.5 30.7#
87 9.8 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.518 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.123 min

Lab File: VN086644.D

Acq: 15 May 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

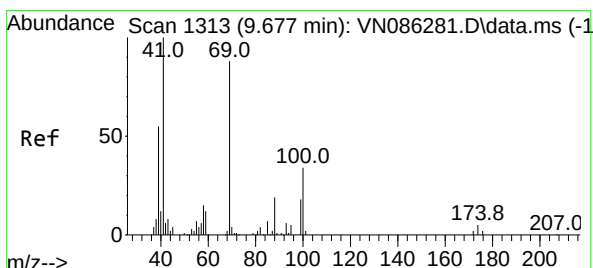
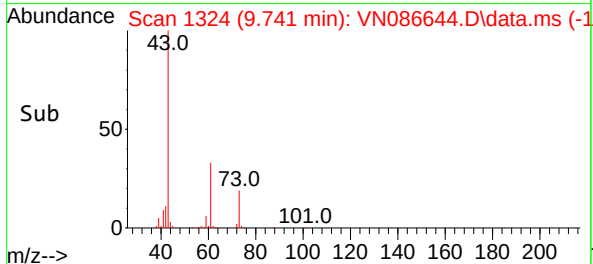
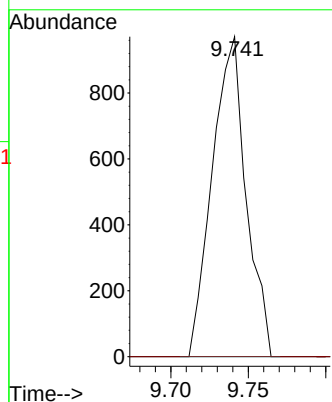
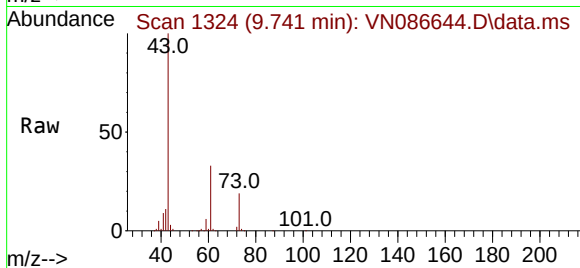
PB167995ZHE#06

Tgt Ion: 63 Resp: 1477

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 25.792 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086644.D

Acq: 15 May 2025 14:47

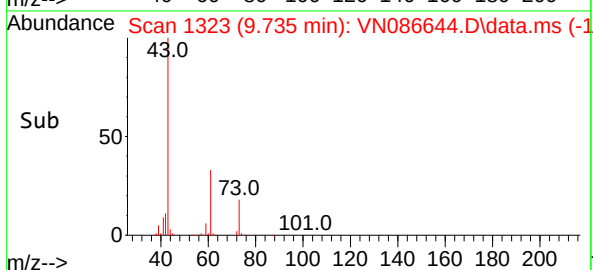
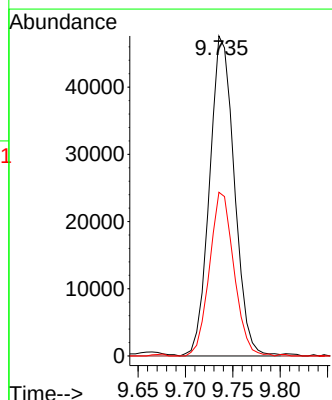
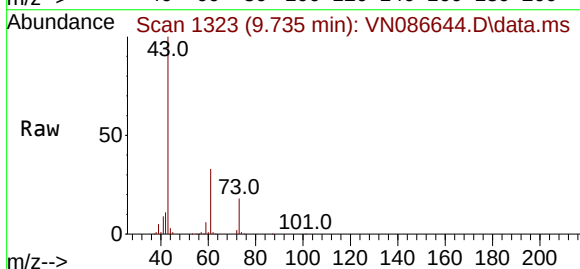
Tgt Ion: 41 Resp: 86634

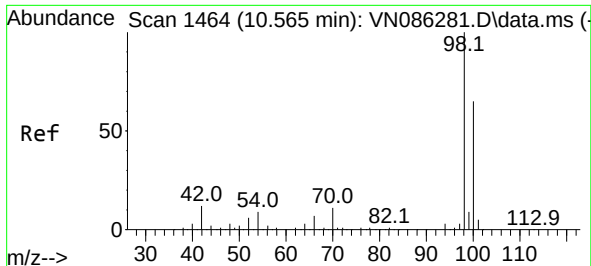
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 50.4 45.2 67.8

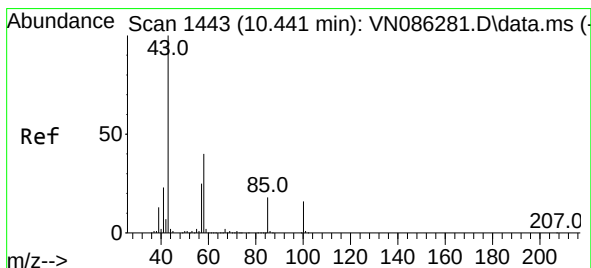
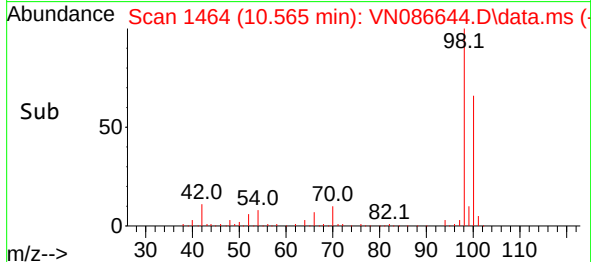
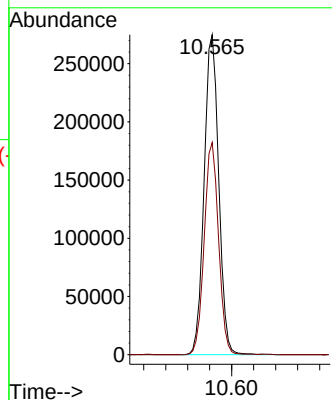
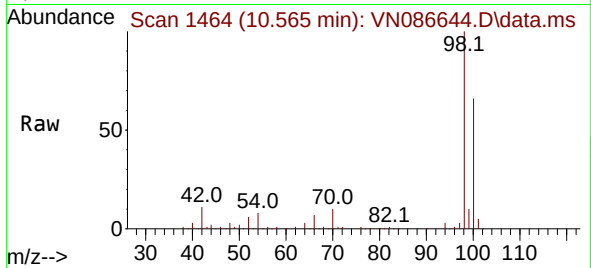




#50
Toluene-d8
Concen: 52.031 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

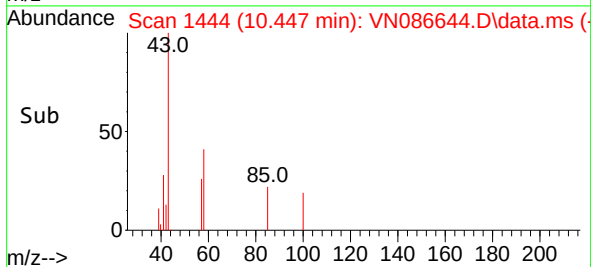
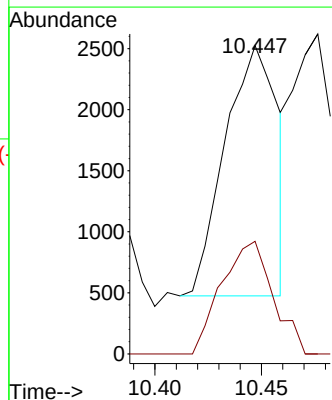
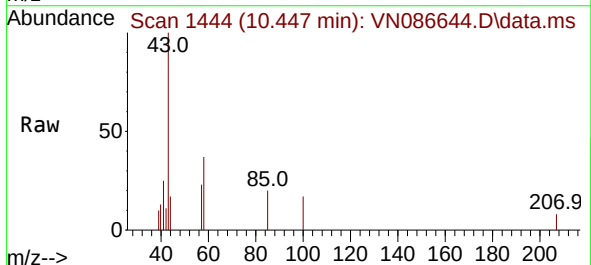
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

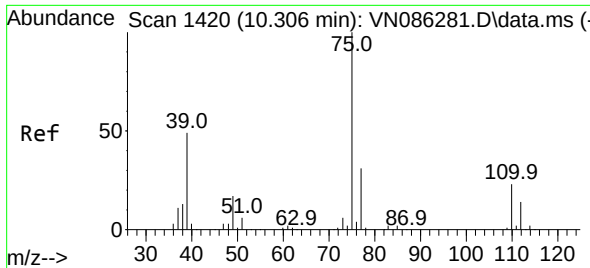
Tgt Ion: 98 Resp: 505825
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.897 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion: 43 Resp: 3515
Ion Ratio Lower Upper
43 100
58 44.0 32.2 48.4

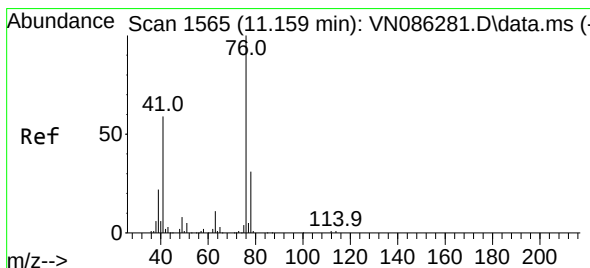
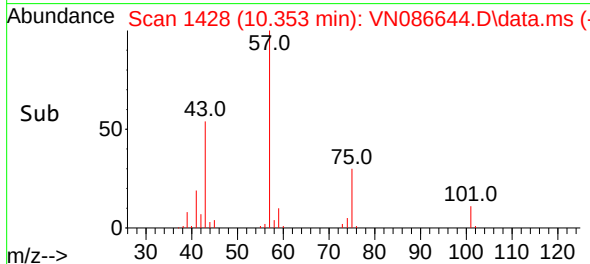
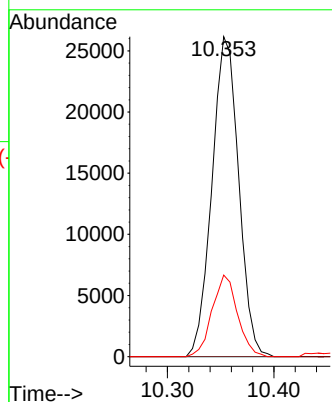
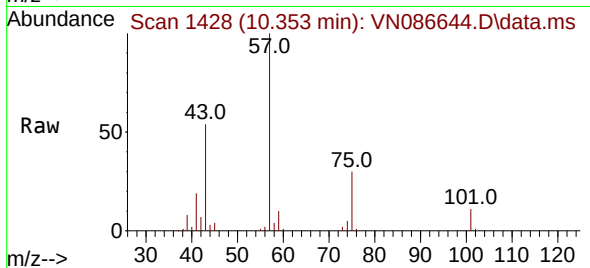




#54
 cis-1,3-Dichloropropene
 Concen: 9.479 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086644.D
 Acq: 15 May 2025 14:47

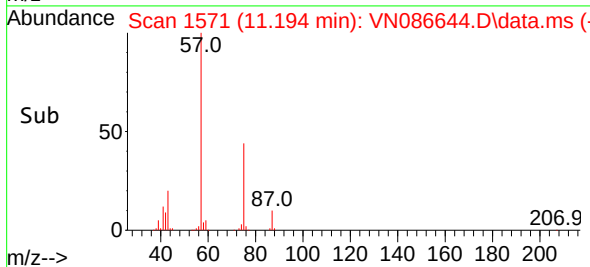
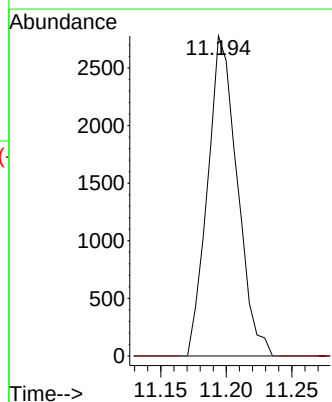
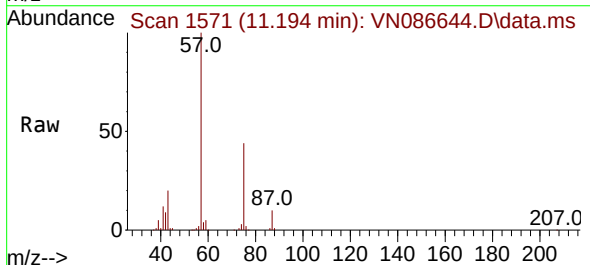
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#06

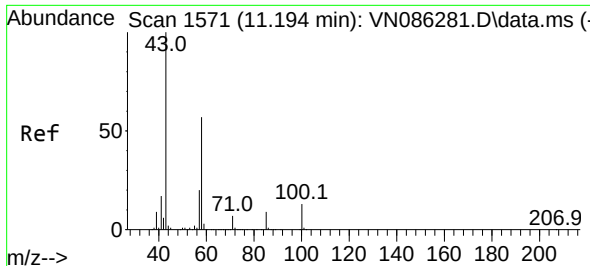
Tgt Ion: 75 Resp: 45569
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.942 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086644.D
 Acq: 15 May 2025 14:47

Tgt Ion: 76 Resp: 4367
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

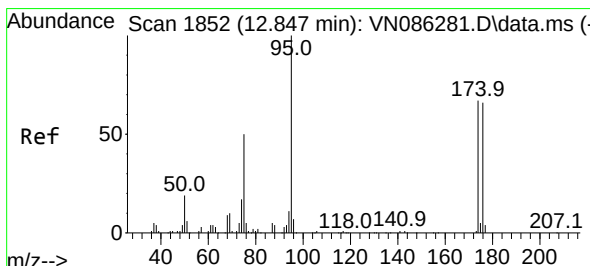
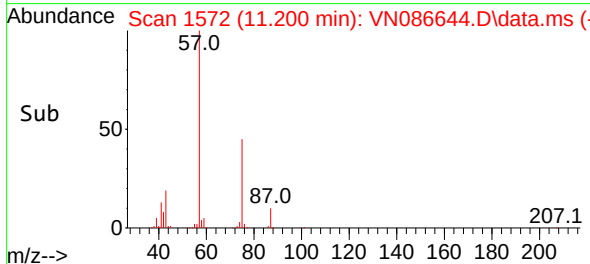
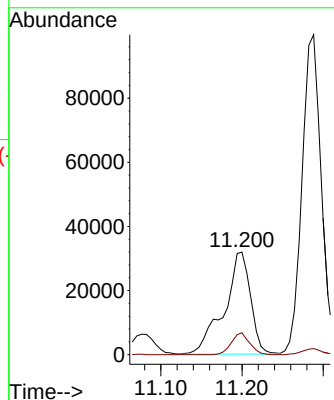
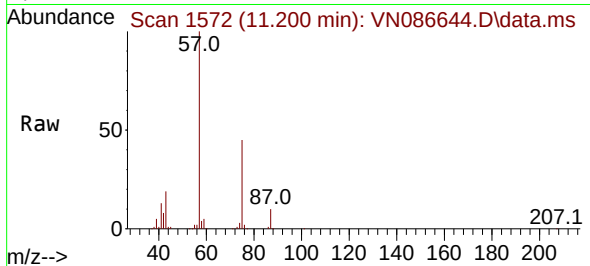




#59
2-Hexanone
Concen: 24.721 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

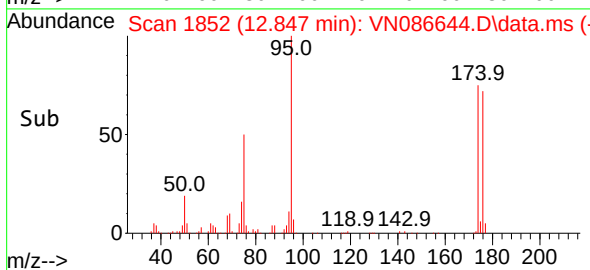
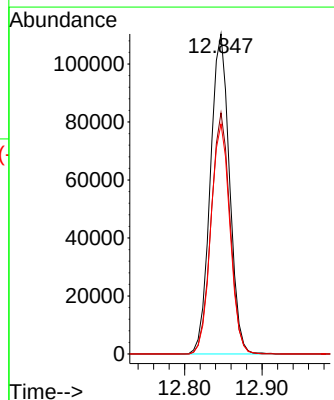
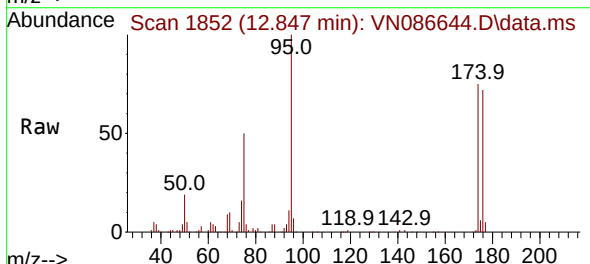
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

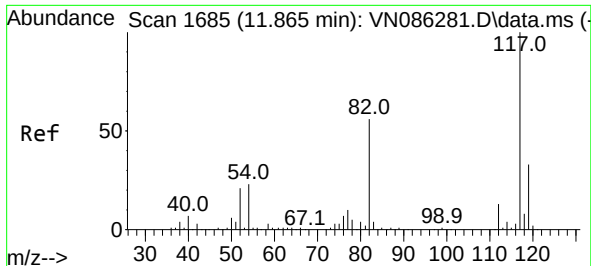
Tgt Ion: 43 Resp: 71818
Ion Ratio Lower Upper
43 100
58 14.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 53.421 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion: 95 Resp: 189423
Ion Ratio Lower Upper
95 100
174 74.4 0.0 133.4
176 71.6 0.0 129.2

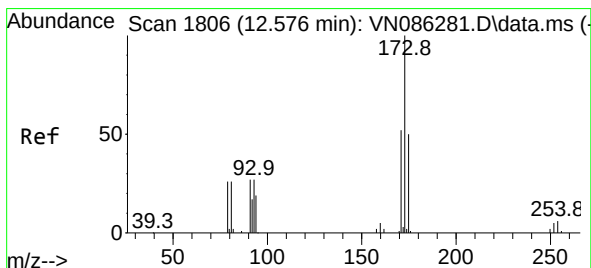
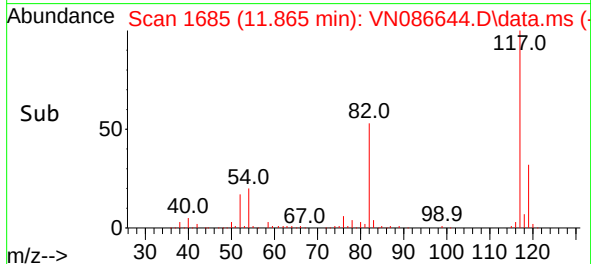
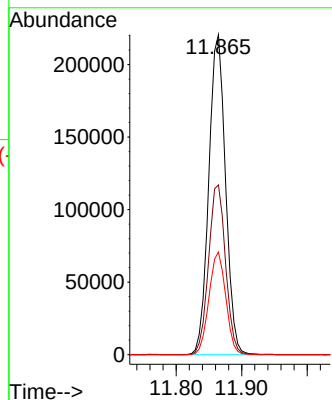
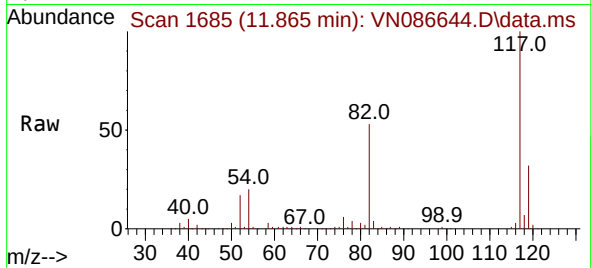




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

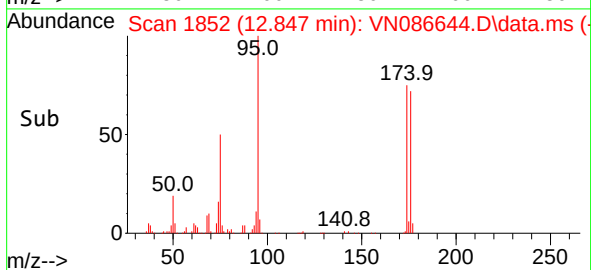
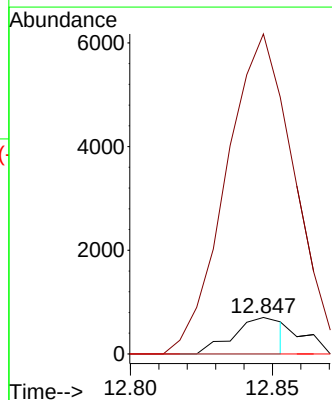
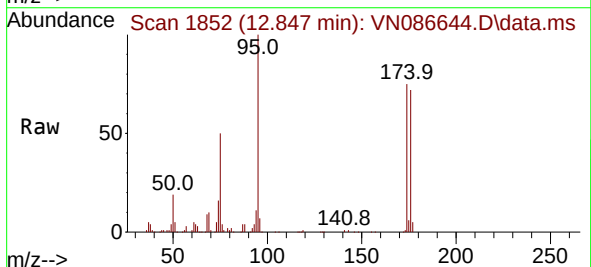
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

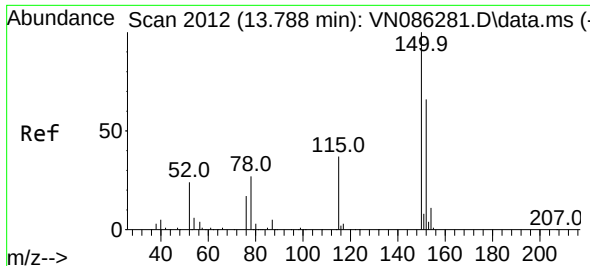
Tgt Ion:117 Resp: 391775
Ion Ratio Lower Upper
117 100
82 53.1 44.7 67.1
119 32.1 26.4 39.6



#71
Bromoform
Concen: 0.395 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion:173 Resp: 857
Ion Ratio Lower Upper
173 100
175 977.0 24.6 73.6#
254 0.0 0.0 0.0

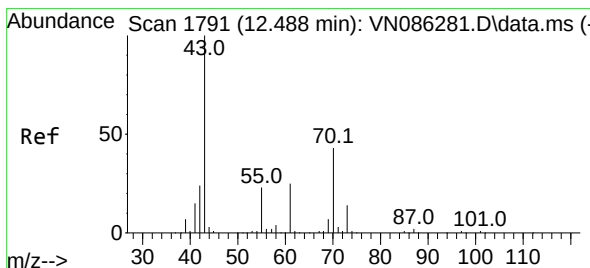
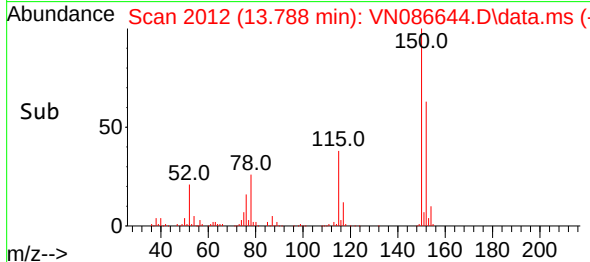
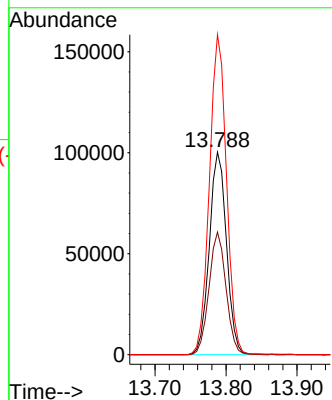
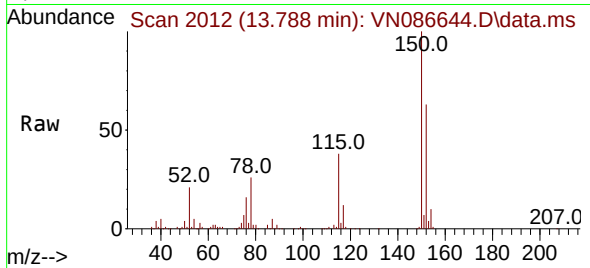




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

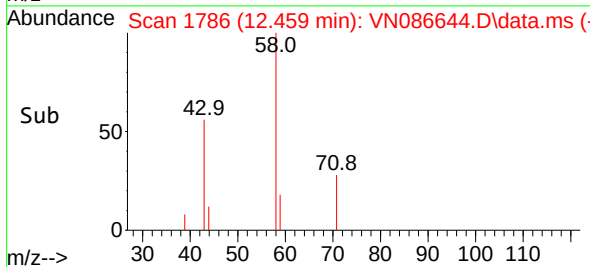
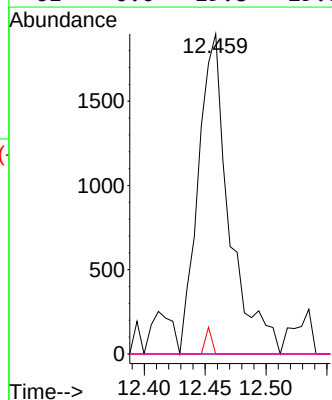
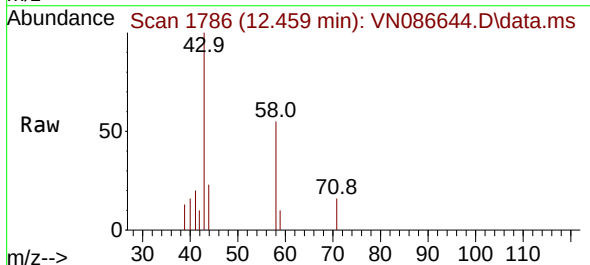
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

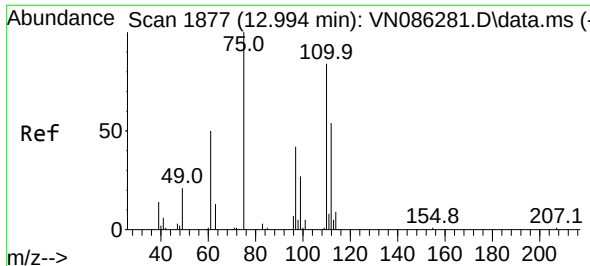
Tgt Ion:152 Resp: 168726
Ion Ratio Lower Upper
152 100
115 60.1 31.9 95.9
150 157.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.488 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion: 43 Resp: 3350
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 1.7 19.0 28.4#
61 0.0 19.8 29.8#

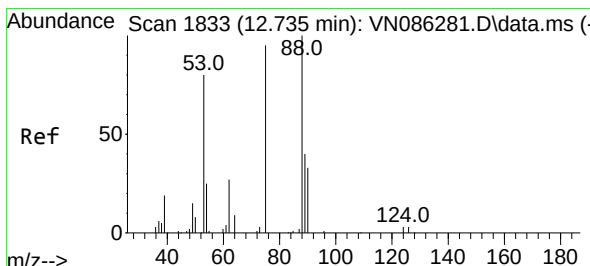
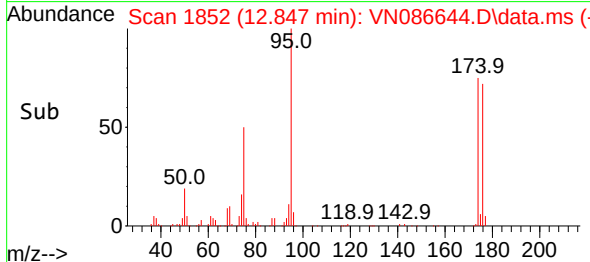
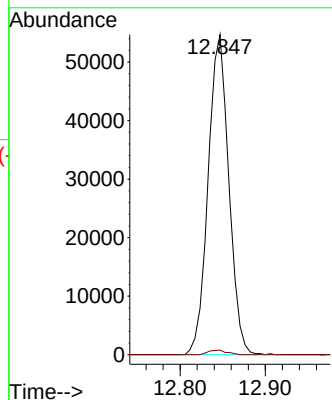
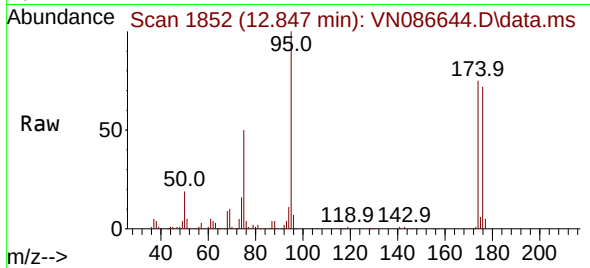




#76
1,2,3-Trichloropropane
Concen: 23.165 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#06

Tgt Ion: 75 Resp: 92237
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.635 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086644.D
Acq: 15 May 2025 14:47

Tgt Ion: 75 Resp: 92237
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

