

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086585.D
 Acq On : 12 May 2025 16:53
 Operator : JC\MD
 Sample : PB167932ZHE#10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#10

Quant Time: May 13 01:55:20 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)

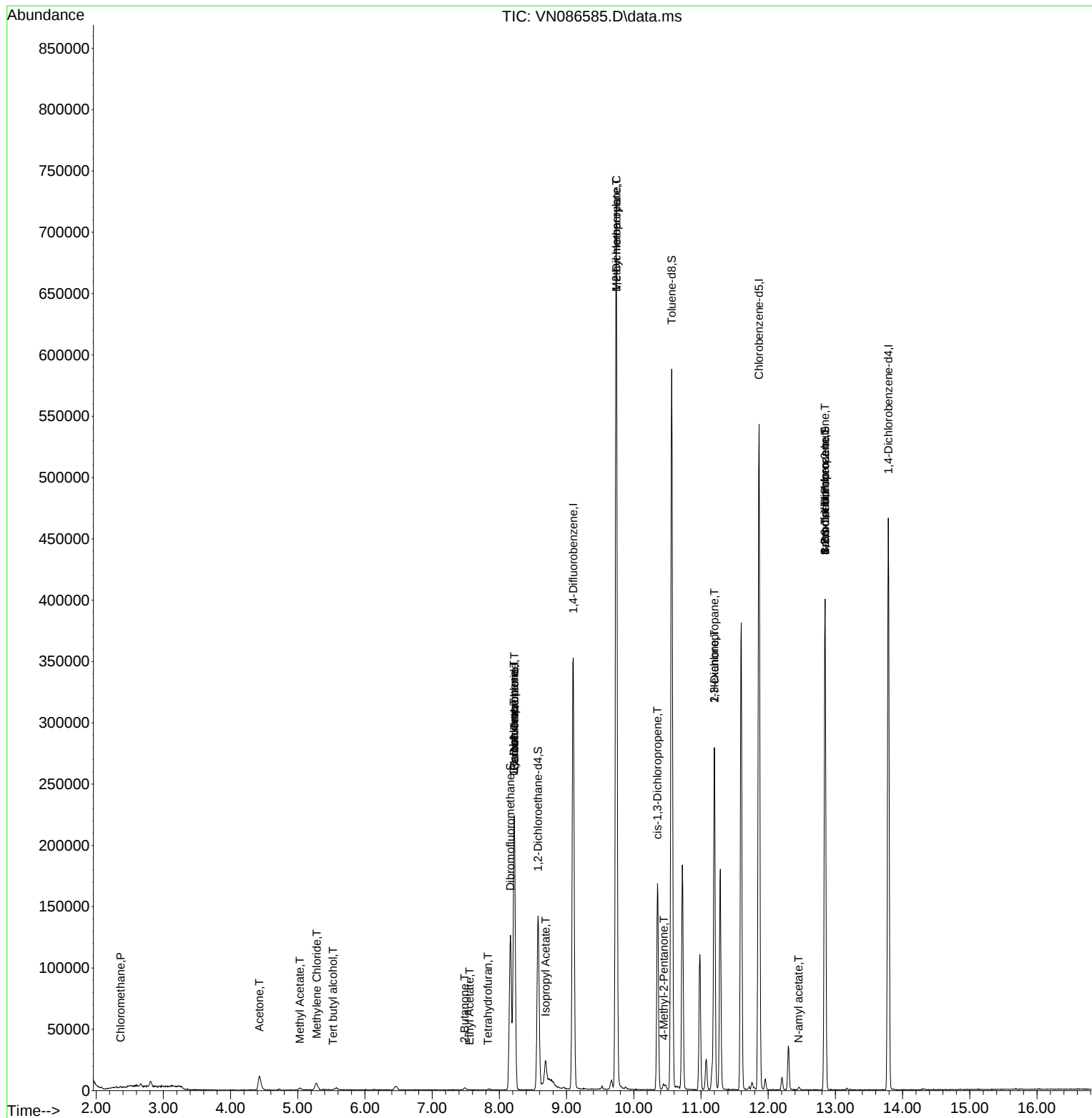
Internal Standards						
1) Pentafluorobenzene	8.224	168	167719	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	320626	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	318132	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129738	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118880	48.880	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.760%
35) Dibromofluoromethane	8.165	113	93445	62.796	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	125.600%#
50) Toluene-d8	10.565	98	416009	52.309	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.620%
62) 4-Bromofluorobenzene	12.847	95	143888	49.603	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	812	0.281	ug/l	92
11) Tert butyl alcohol	5.524	59	135	0.304	ug/l #	72
16) Acetone	4.430	43	22260	21.251	ug/l	97
18) Methyl Acetate	5.030	43	3416	1.170	ug/l #	79
20) Methylene Chloride	5.283	84	4432	1.971	ug/l #	90
25) 2-Butanone	7.482	43	3180	2.101	ug/l	97
29) Tetrahydrofuran	7.830	42	310	0.306	ug/l #	46
31) Cyclohexane	8.218	56	3635	0.922	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13408	4.511	ug/l #	49
37) Ethyl Acetate	7.559	43	706	0.226	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16810	5.939	ug/l #	16
43) Isopropyl Acetate	8.688	43	35918	4.614	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	867	0.372	ug/l #	43
48) Methyl methacrylate	9.741	41	65163	23.714	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	3731	1.164	ug/l #	84
54) cis-1,3-Dichloropropene	10.353	75	32468	8.255	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3269	0.862	ug/l #	43
59) 2-Hexanone	11.200	43	54373	22.878	ug/l #	43
71) Bromoform	12.847	173	834	0.473	ug/l #	1
74) N-amyl acetate	12.453	43	2268	0.429	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	72437	23.660	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72437	56.822	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

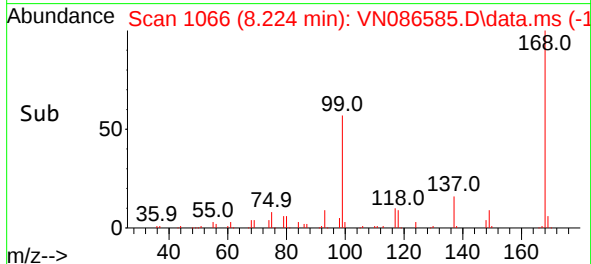
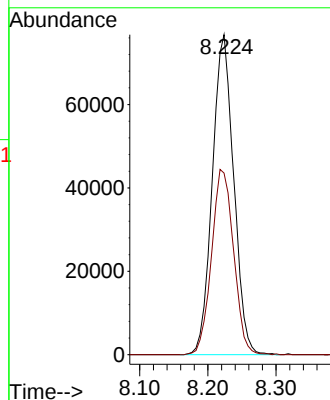
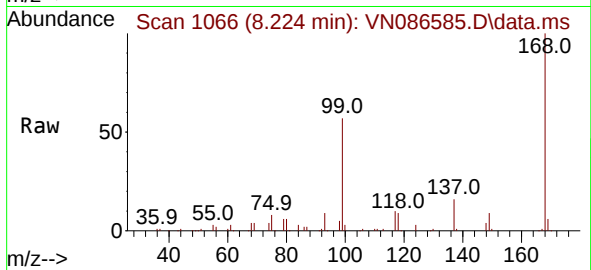




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

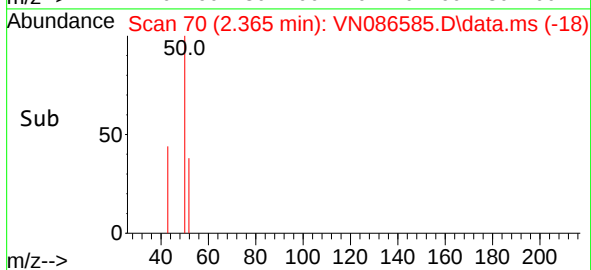
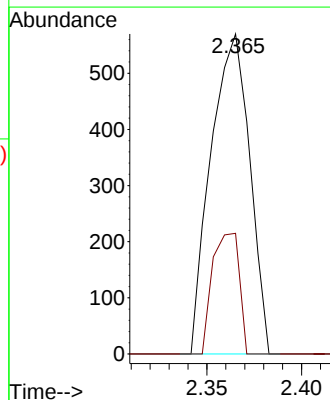
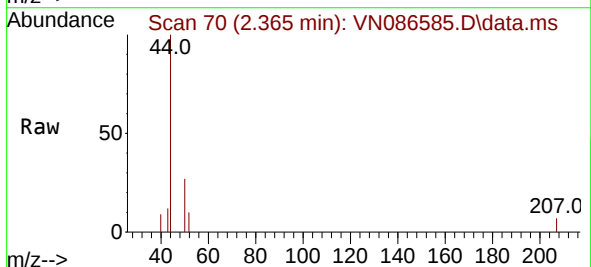
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

Tgt Ion:168 Resp: 167719
Ion Ratio Lower Upper
168 100
99 56.8 52.5 78.7



#3
Chloromethane
Concen: 0.281 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 50 Resp: 812
Ion Ratio Lower Upper
50 100
52 37.7 26.5 39.7

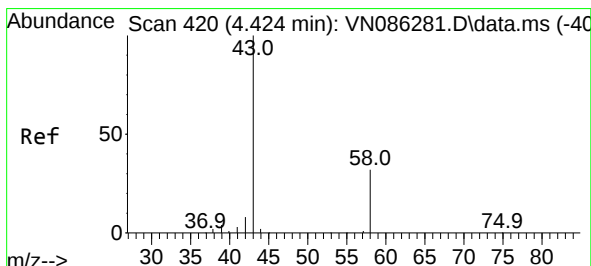
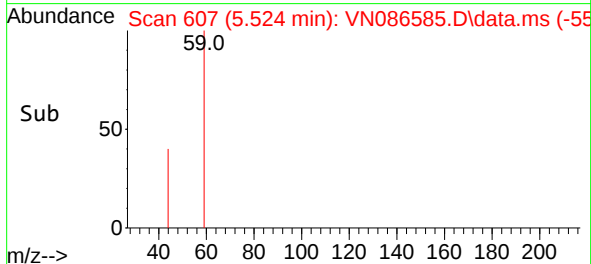
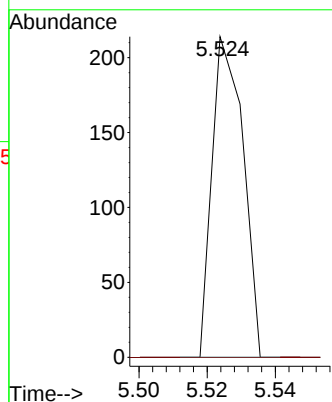
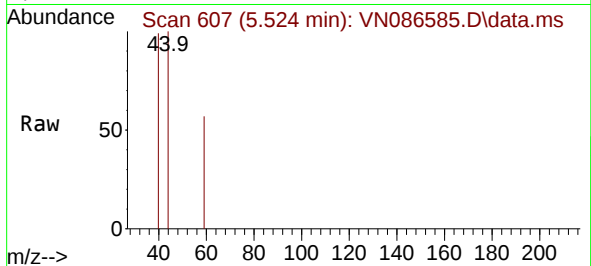




#11
Tert butyl alcohol
Concen: 0.304 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

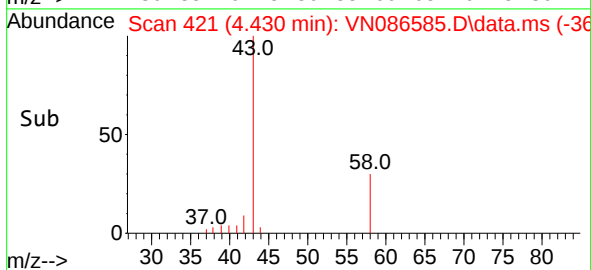
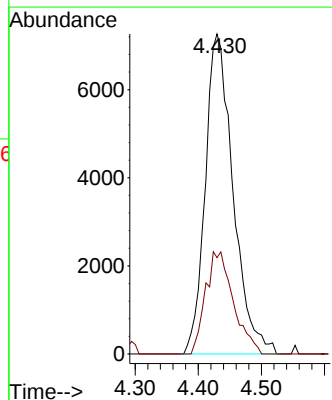
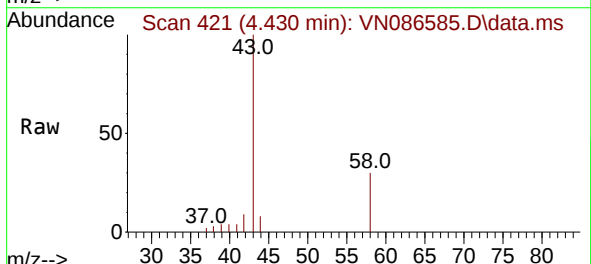
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

Tgt Ion: 59 Resp: 135
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 21.251 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 43 Resp: 22260
Ion Ratio Lower Upper
43 100
58 30.1 25.3 37.9

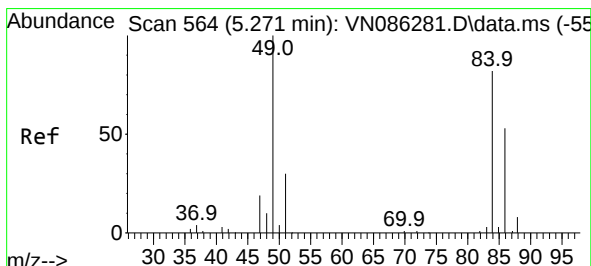
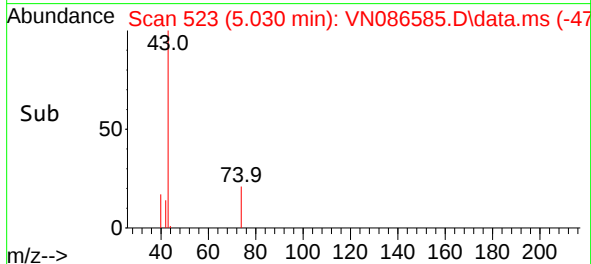
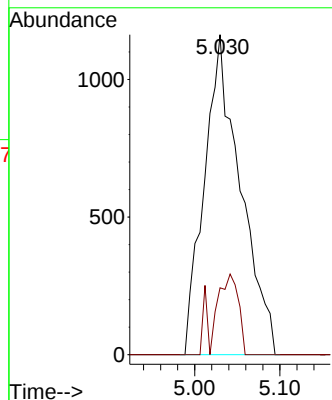
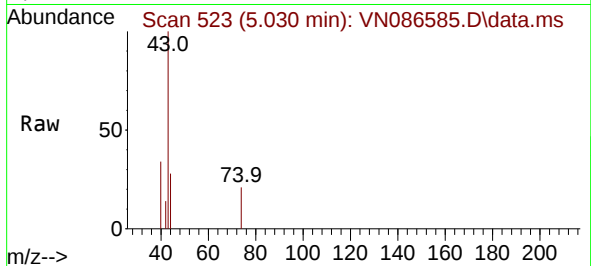




#18
Methyl Acetate
Concen: 1.170 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

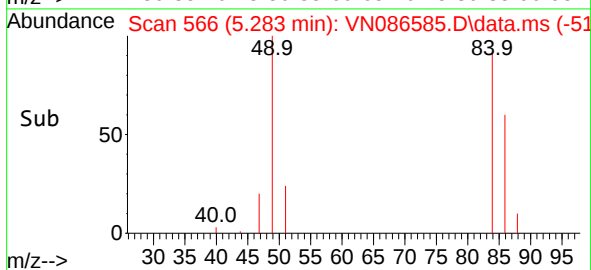
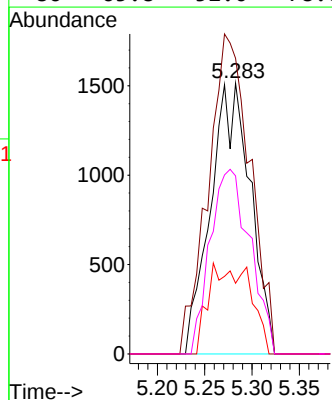
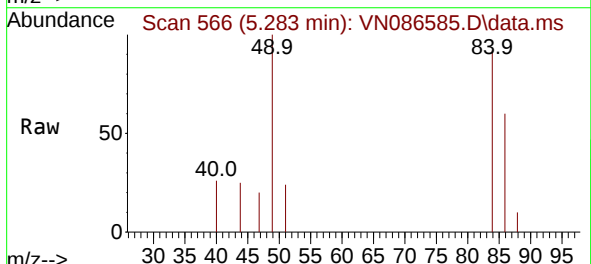
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

Tgt Ion: 43 Resp: 3416
Ion Ratio Lower Upper
43 100
74 14.0 19.8 29.6#



#20
Methylene Chloride
Concen: 1.971 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 84 Resp: 4432
Ion Ratio Lower Upper
84 100
49 109.2 98.2 147.2
51 26.1 29.8 44.6#
86 65.8 52.0 78.0

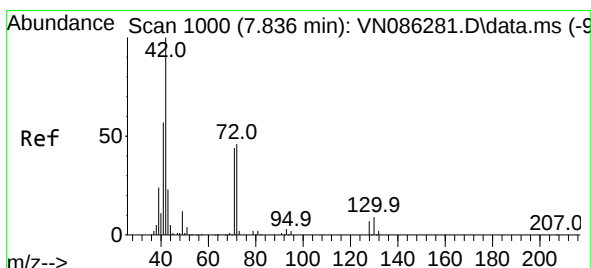
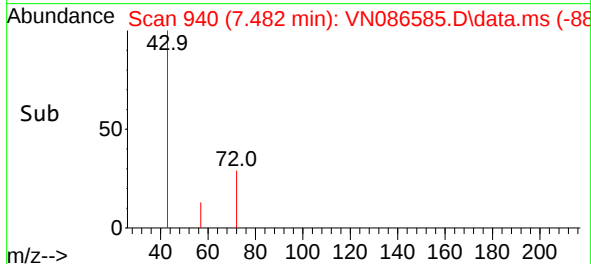
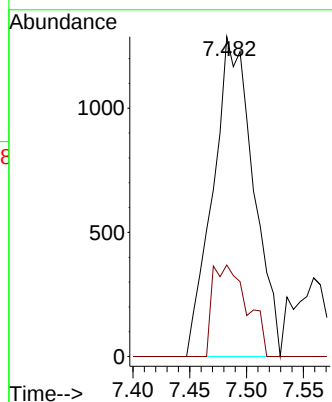
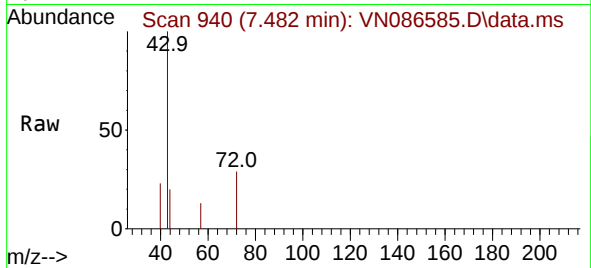




#25
2-Butanone
Concen: 2.101 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

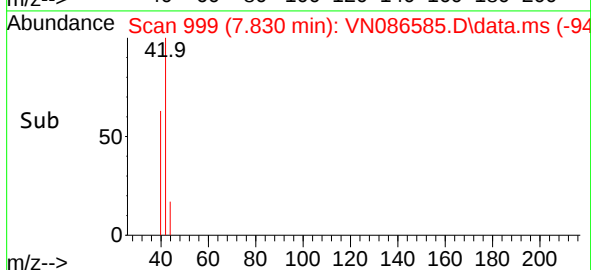
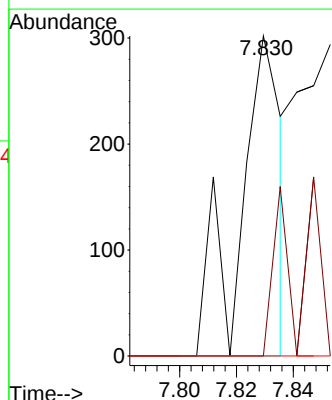
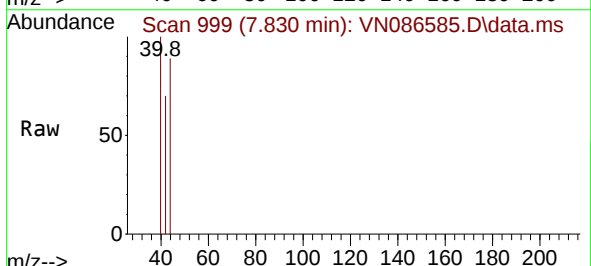
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

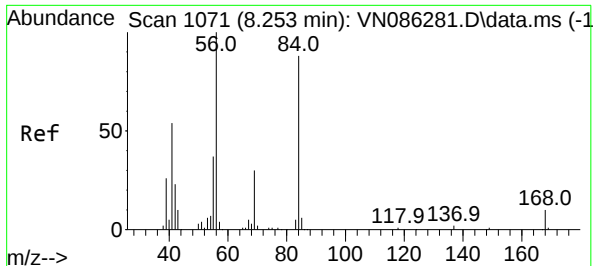
Tgt Ion: 43 Resp: 3180
Ion Ratio Lower Upper
43 100
72 28.6 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.306 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 42 Resp: 310
Ion Ratio Lower Upper
42 100
72 18.1 36.2 54.4#
71 0.0 34.0 51.0#

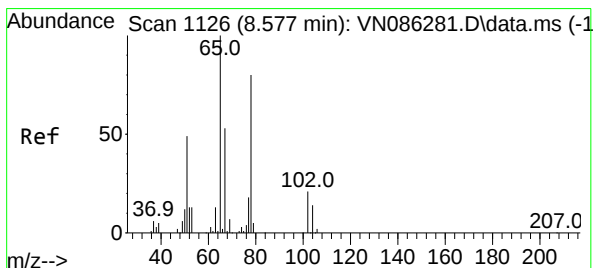
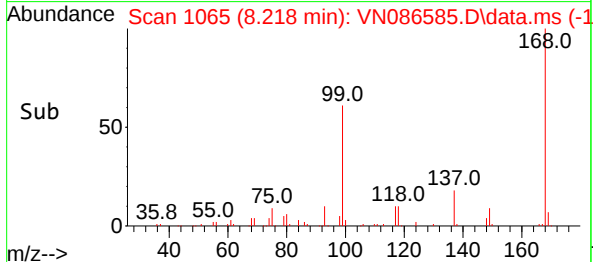
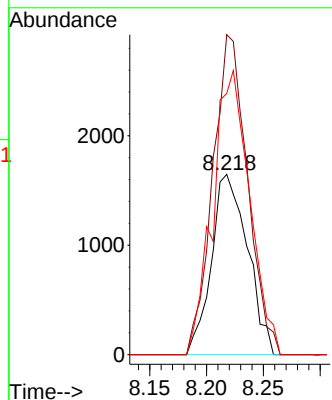
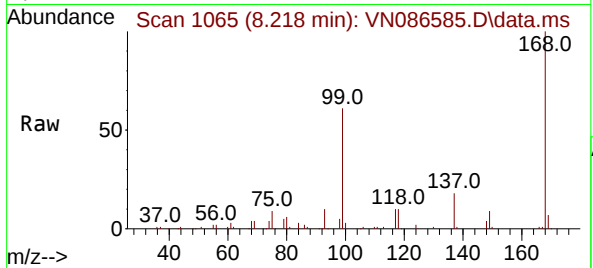




#31
Cyclohexane
Concen: 0.922 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

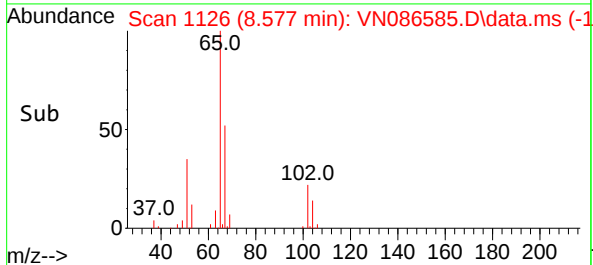
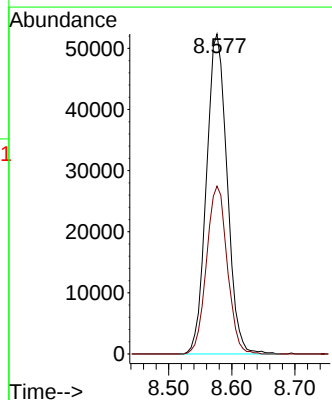
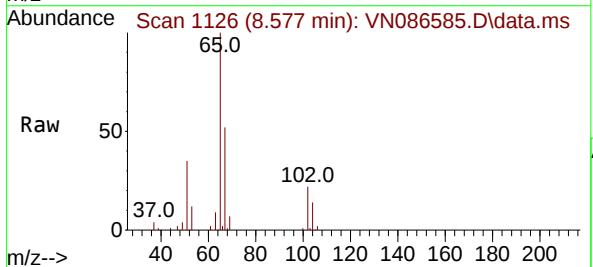
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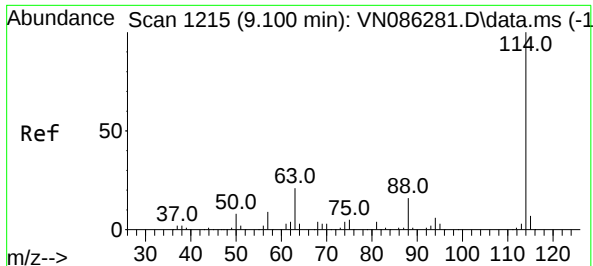
Tgt Ion: 56 Resp: 3635
Ion Ratio Lower Upper
56 100
69 177.5 24.2 36.2#
84 145.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.880 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 65 Resp: 118880
Ion Ratio Lower Upper
65 100
67 52.6 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: VN086585.D

Acq: 12 May 2025 16:53

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#10

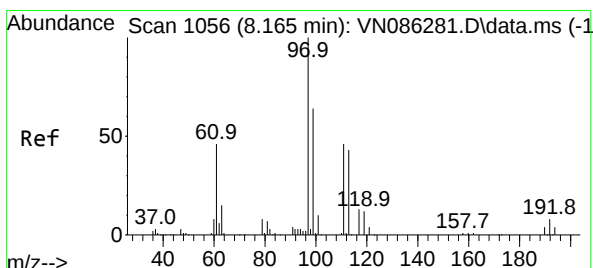
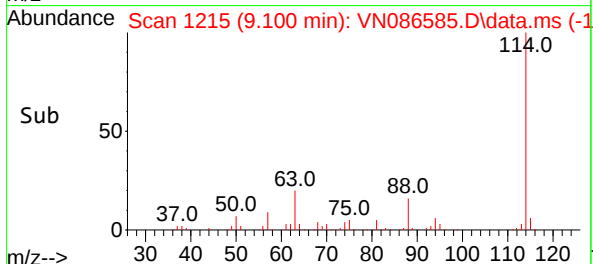
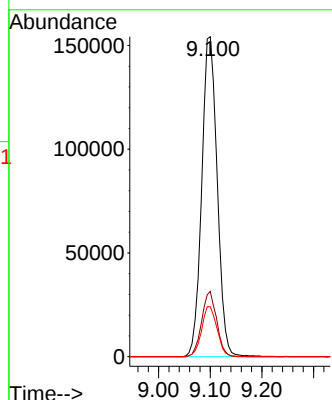
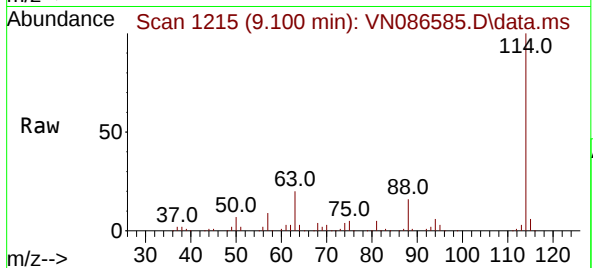
Tgt Ion:114 Resp: 320626

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 15.6 0.0 31.8



#35

Dibromofluoromethane

Concen: 62.796 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086585.D

Acq: 12 May 2025 16:53

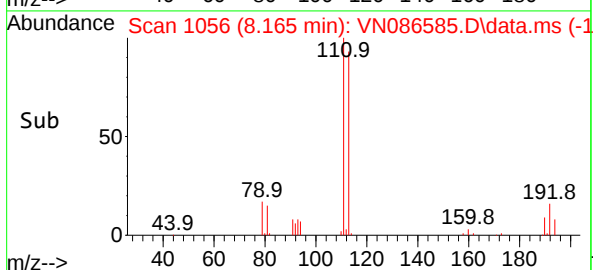
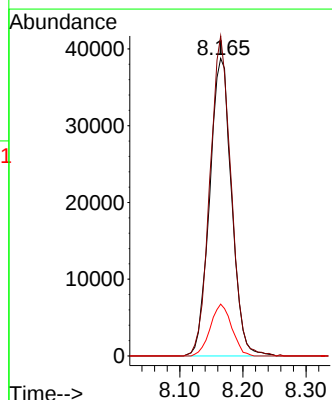
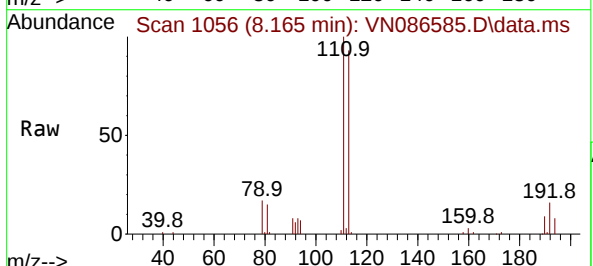
Tgt Ion:113 Resp: 93445

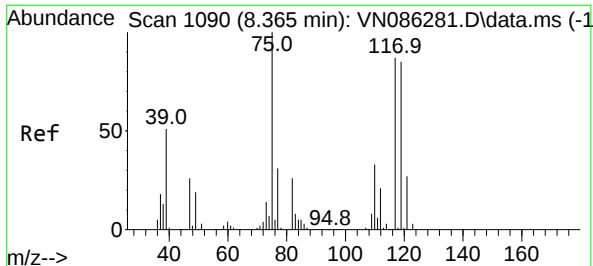
Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.0

192 17.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.511 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086585.D

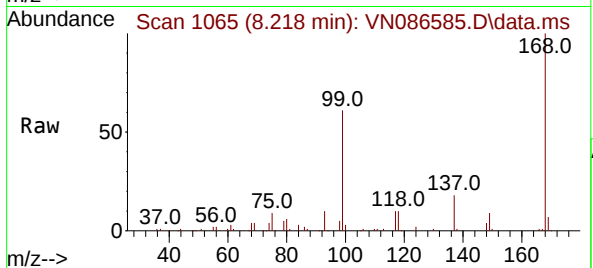
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Instrument :

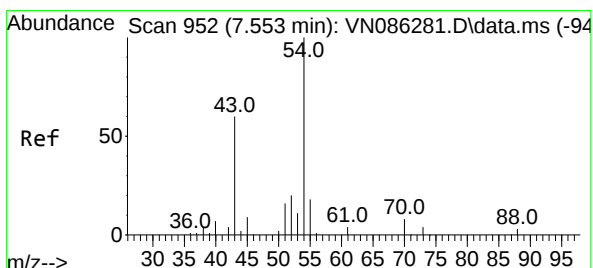
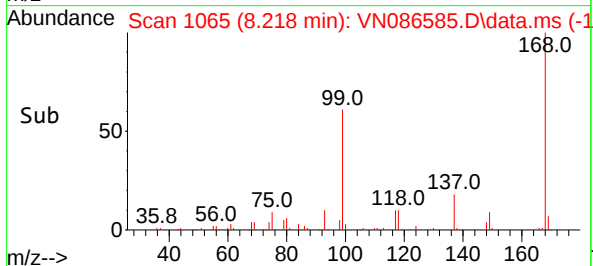
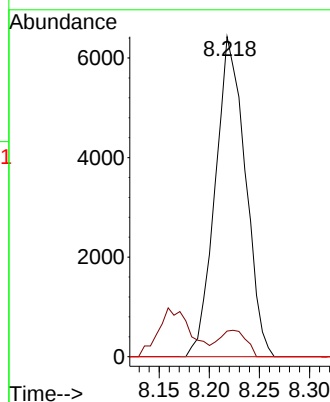
MSVOA_N

ClientSampleId :

PB167932ZHE#10



Tgt Ion:	75	Resp:	13408
Ion Ratio	Lower	Upper	
75	100		
110	7.5	16.8	50.4#
77	0.0	24.9	37.3#



#37

Ethyl Acetate

Concen: 0.226 ug/l

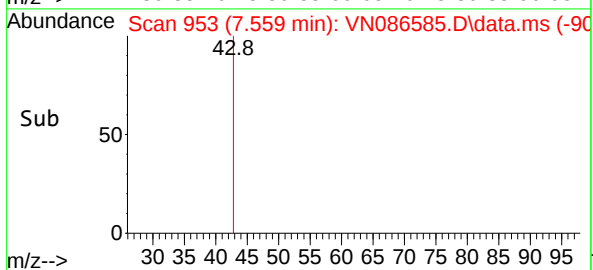
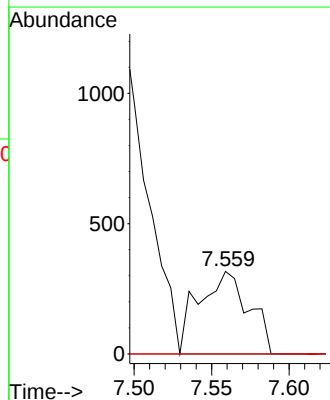
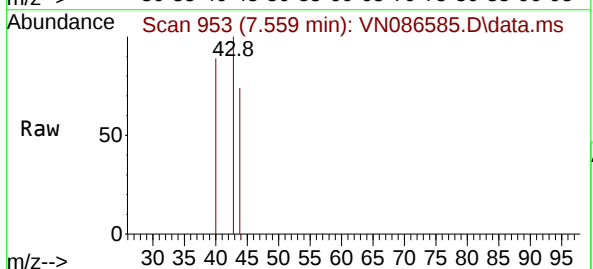
RT: 7.559 min Scan# 953

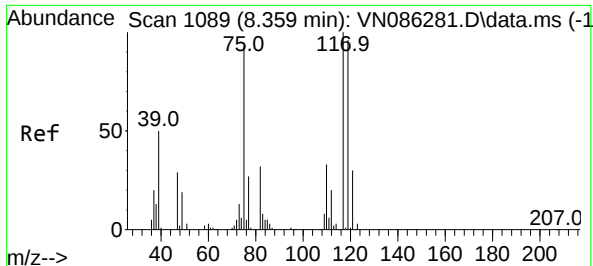
Delta R.T. 0.006 min

Lab File: VN086585.D

Acq: 12 May 2025 16:53

Tgt Ion:	43	Resp:	706
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.1	16.7#
70	0.0	9.2	13.8#

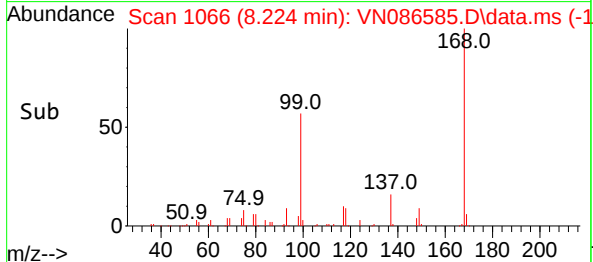
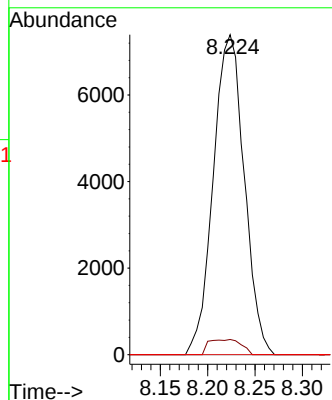
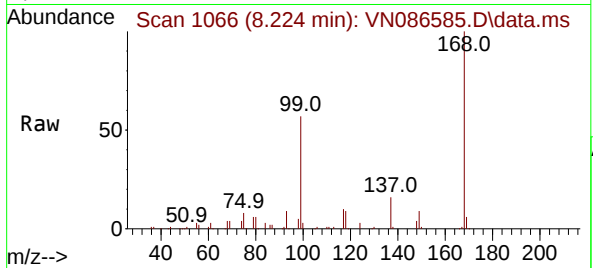




#38
Carbon Tetrachloride
Concen: 5.939 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

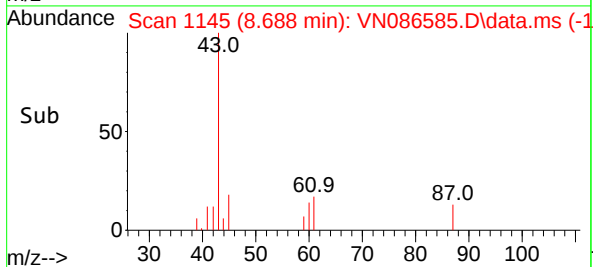
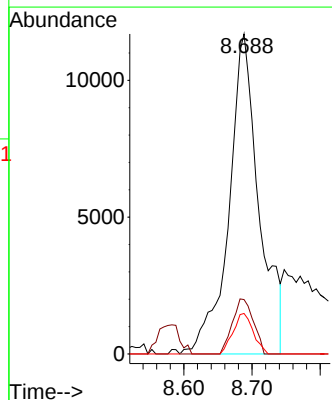
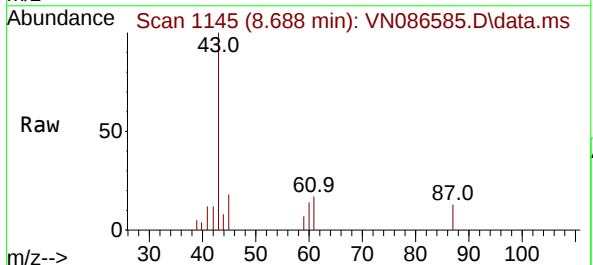
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

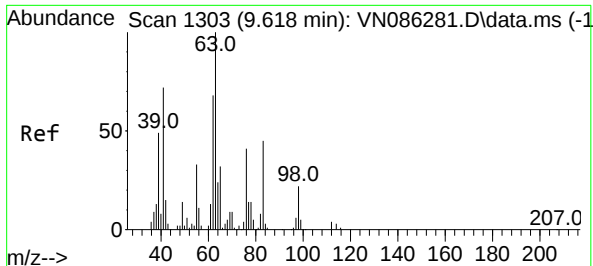
Tgt Ion:117 Resp: 16810
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 4.614 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 43 Resp: 35918
Ion Ratio Lower Upper
43 100
61 11.9 20.5 30.7#
87 8.4 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.372 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086585.D

Acq: 12 May 2025 16:53

Instrument :

MSVOA_N

ClientSampleId :

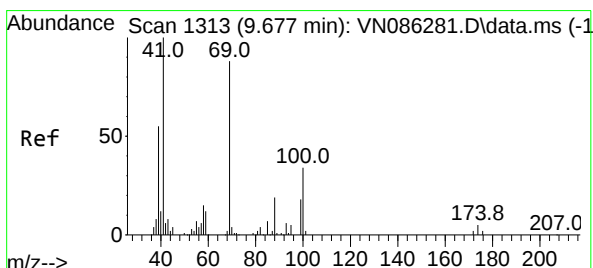
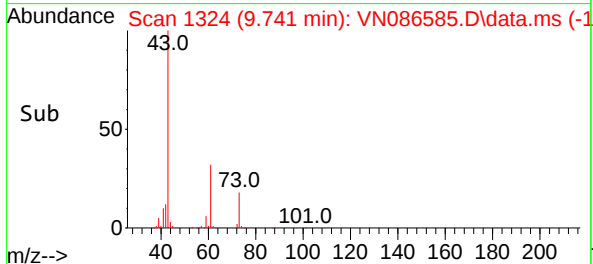
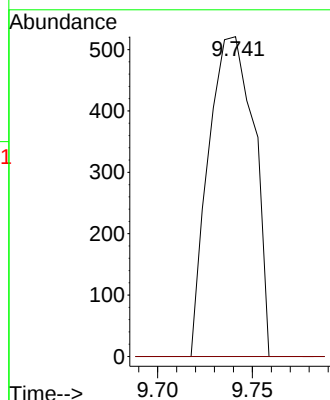
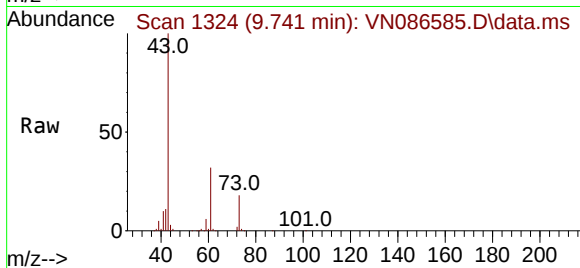
PB167932ZHE#10

Tgt Ion: 63 Resp: 867

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 23.714 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086585.D

Acq: 12 May 2025 16:53

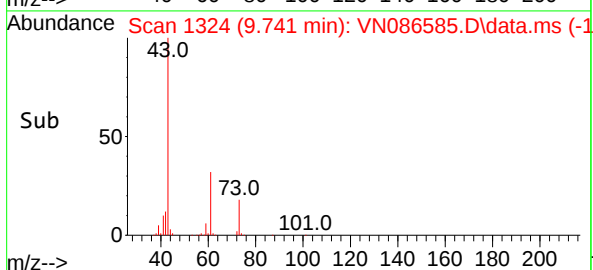
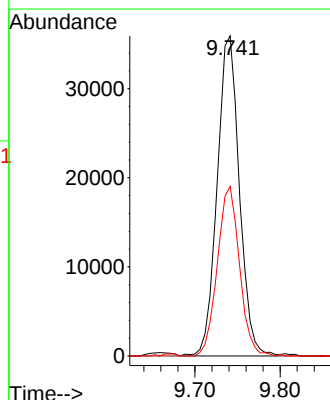
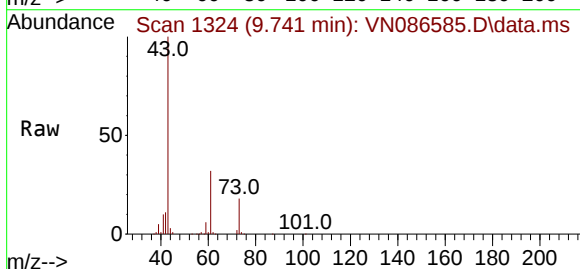
Tgt Ion: 41 Resp: 65163

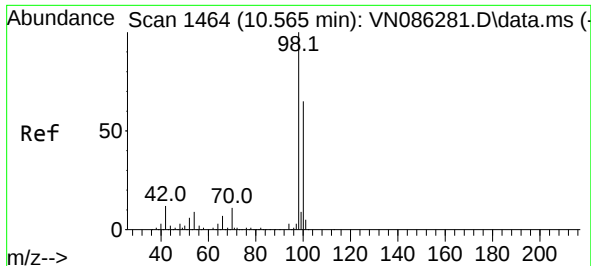
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.8 45.2 67.8

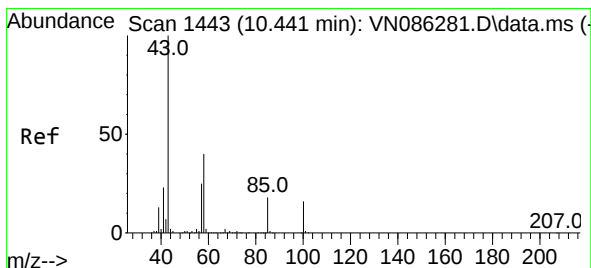
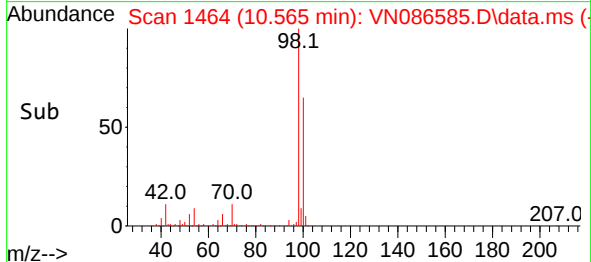
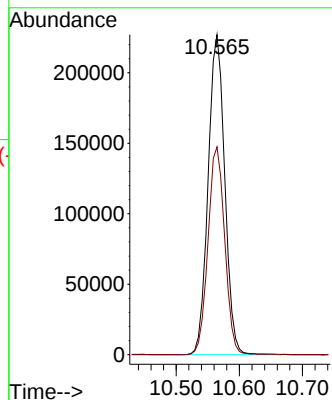
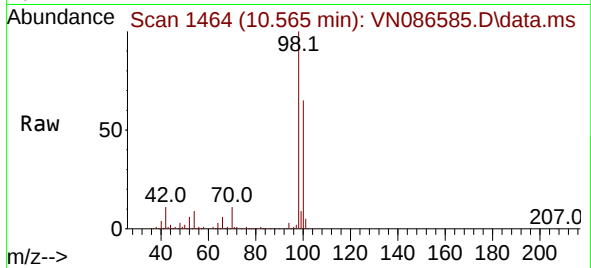




#50
Toluene-d8
Concen: 52.309 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

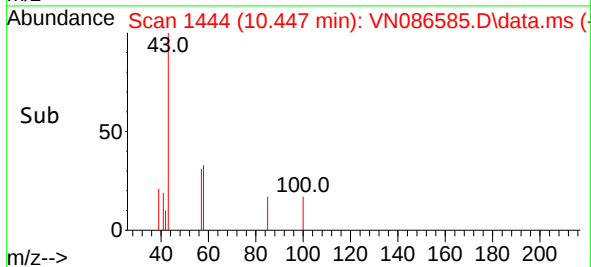
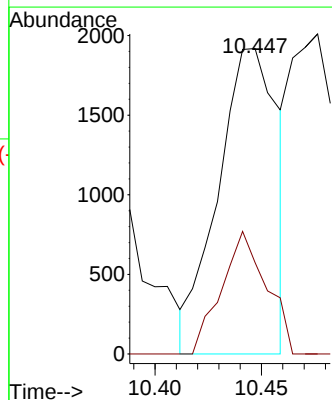
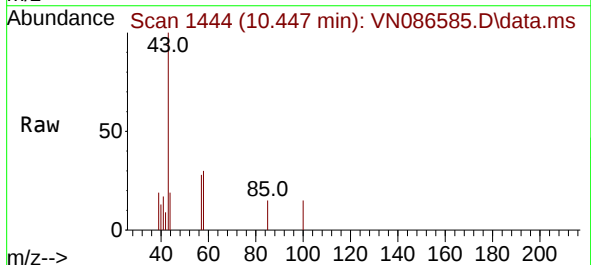
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

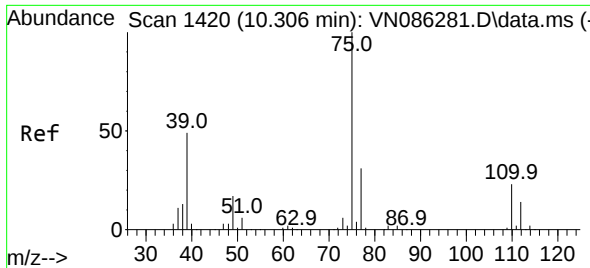
Tgt Ion: 98 Resp: 416009
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.164 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 43 Resp: 3731
Ion Ratio Lower Upper
43 100
58 30.4 32.2 48.4#

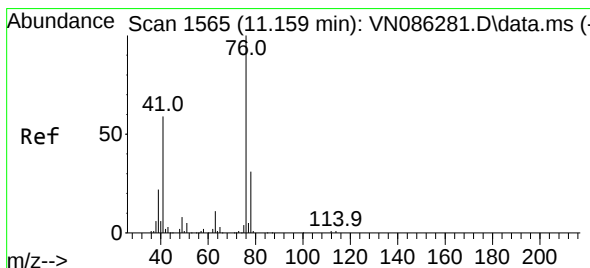
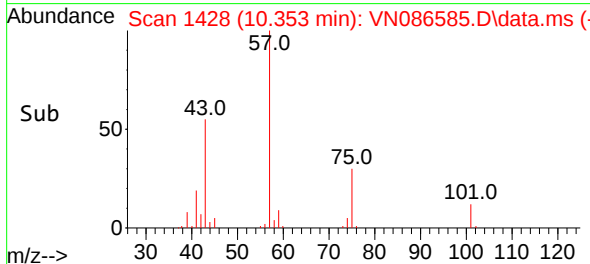
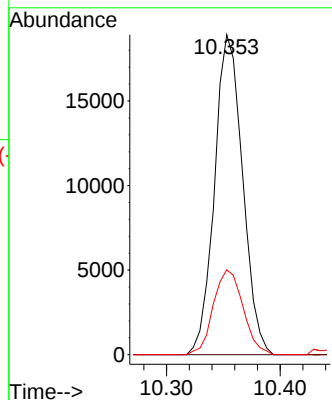
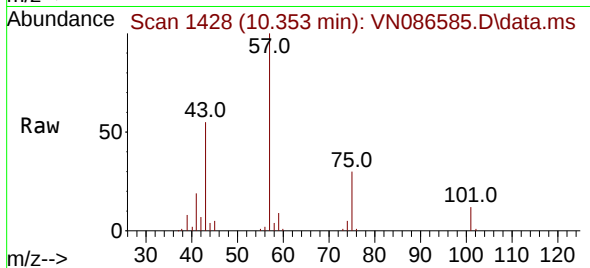




#54
 cis-1,3-Dichloropropene
 Concen: 8.255 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086585.D
 Acq: 12 May 2025 16:53

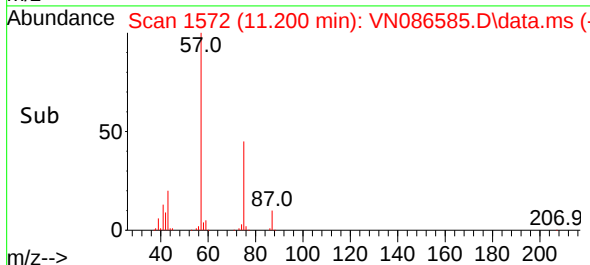
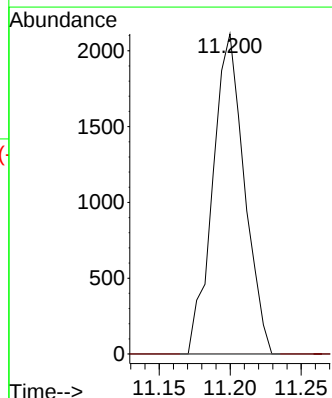
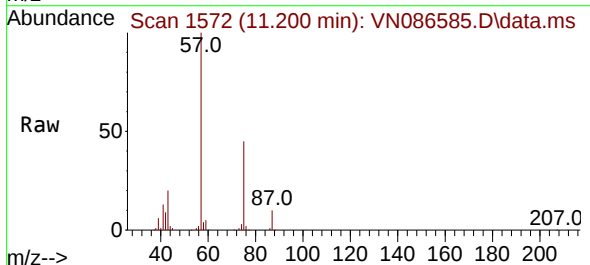
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#10

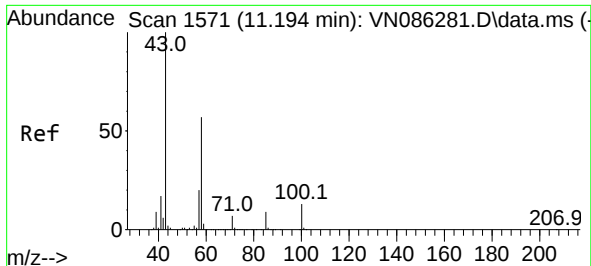
Tgt Ion: 75 Resp: 32468
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 26.6 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.862 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086585.D
 Acq: 12 May 2025 16:53

Tgt Ion: 76 Resp: 3269
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

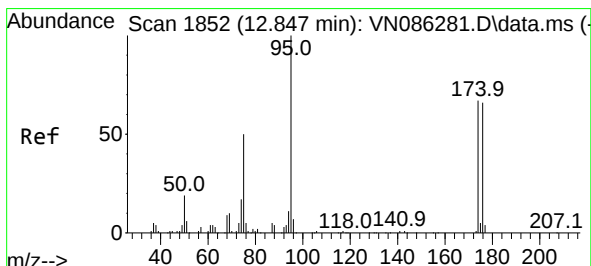
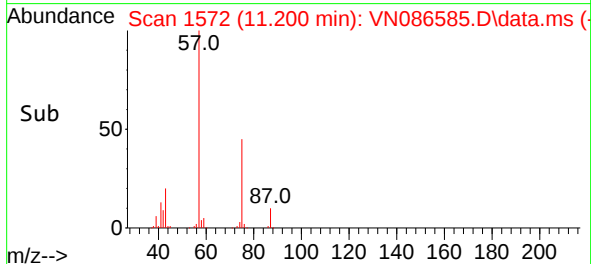
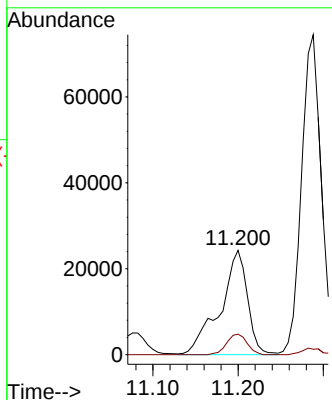
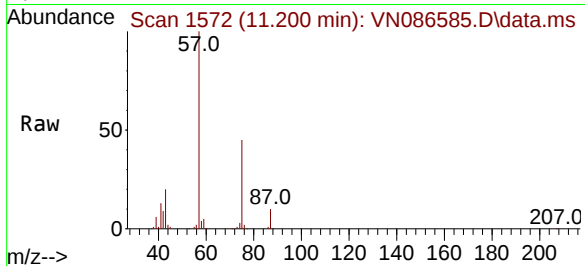




#59
2-Hexanone
Concen: 22.878 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

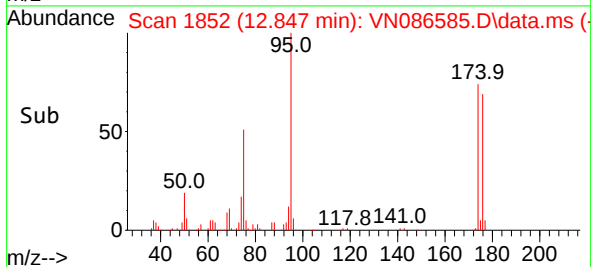
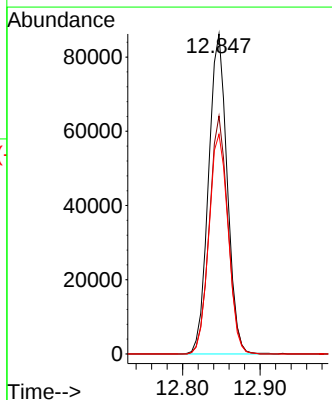
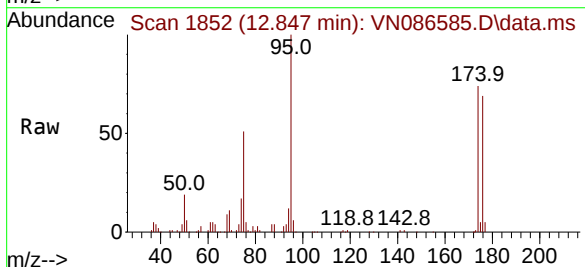
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

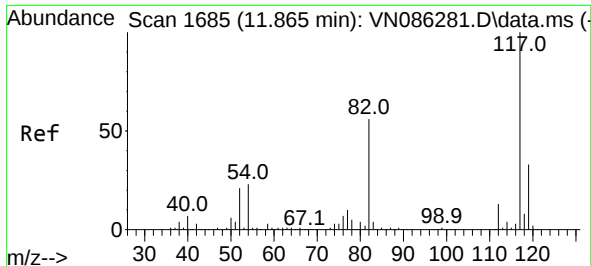
Tgt Ion: 43 Resp: 54373
Ion Ratio Lower Upper
43 100
58 14.7 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.603 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 95 Resp: 143888
Ion Ratio Lower Upper
95 100
174 74.1 0.0 133.4
176 70.9 0.0 129.2

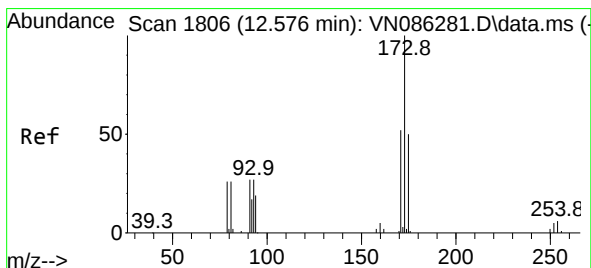
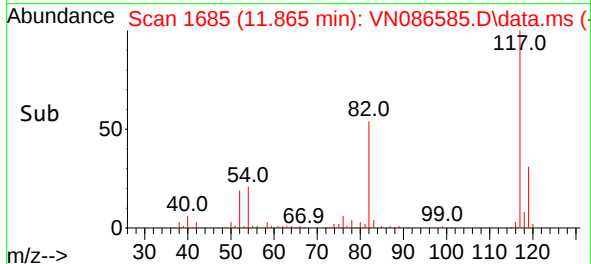
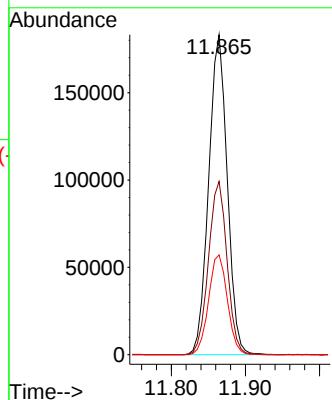
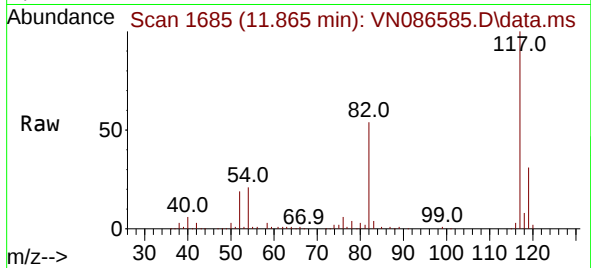




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

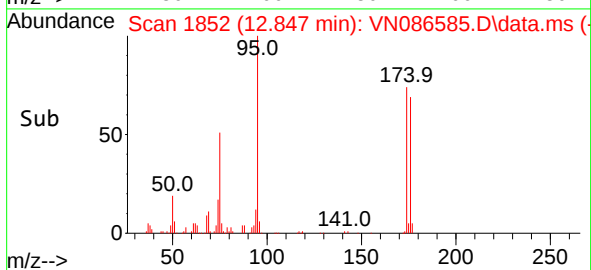
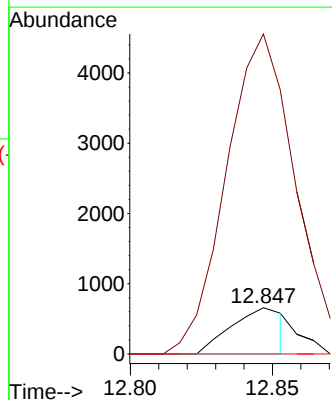
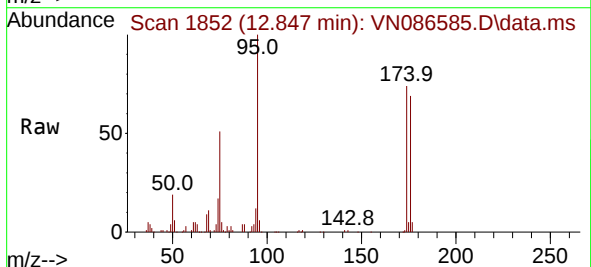
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

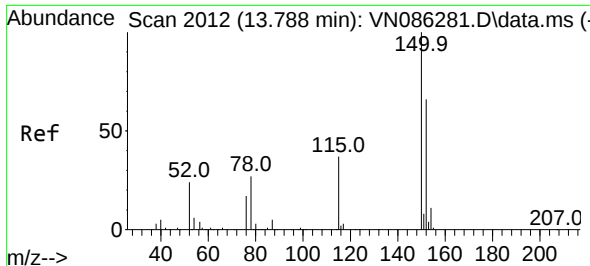
Tgt Ion:117 Resp: 318132
Ion Ratio Lower Upper
117 100
82 54.1 44.7 67.1
119 31.2 26.4 39.6



#71
Bromoform
Concen: 0.473 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion:173 Resp: 834
Ion Ratio Lower Upper
173 100
175 742.2 24.6 73.6#
254 0.0 0.0 0.0

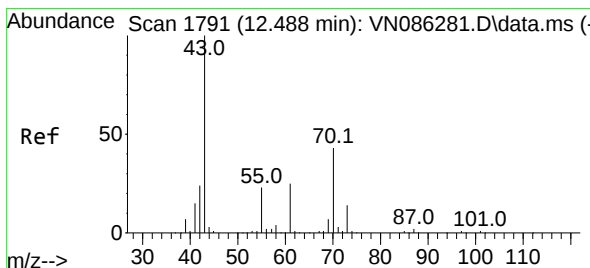
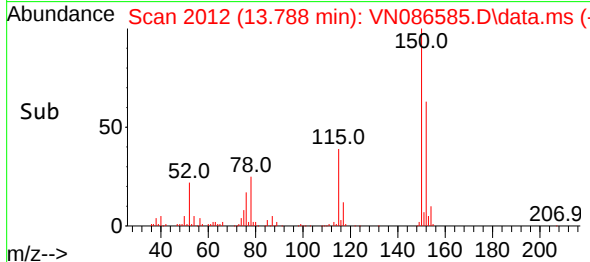
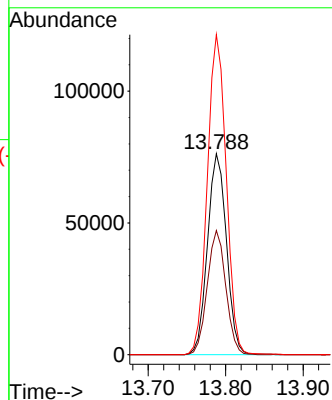
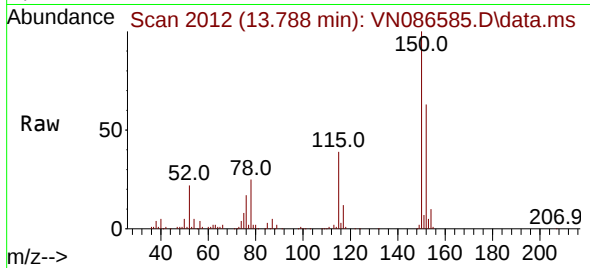




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

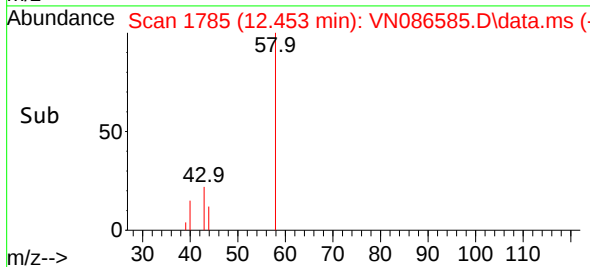
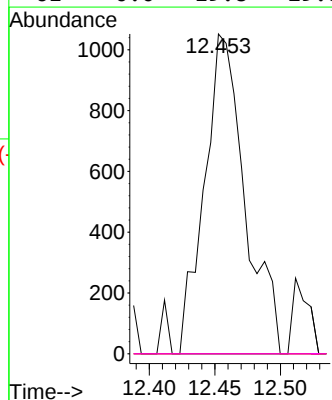
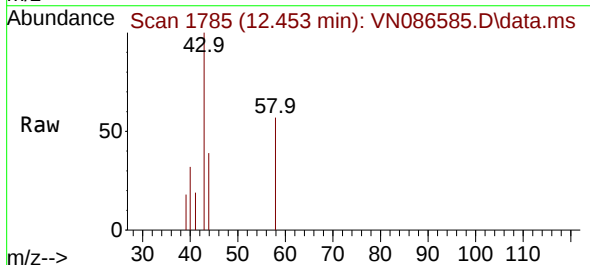
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

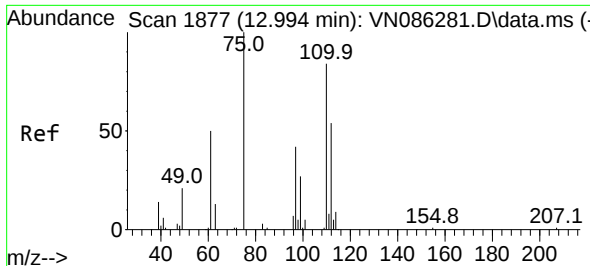
Tgt Ion:152 Resp: 129738
Ion Ratio Lower Upper
152 100
115 60.4 31.9 95.9
150 158.6 0.0 352.0



#74
N-ethyl acetate
Concen: 0.429 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 43 Resp: 2268
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 0.0 19.0 28.4#
61 0.0 19.8 29.8#

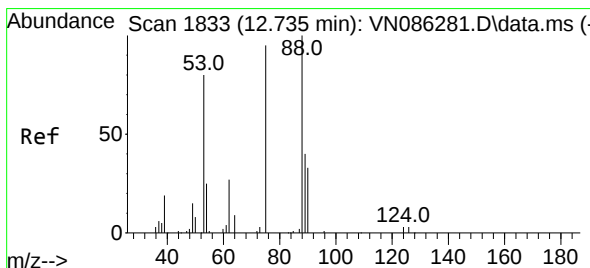
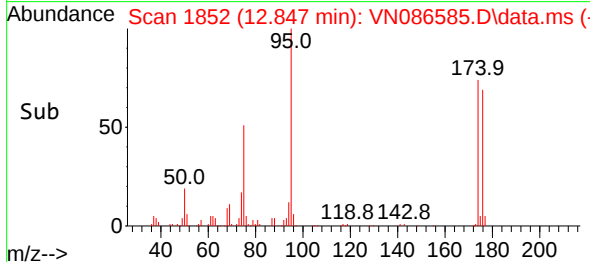
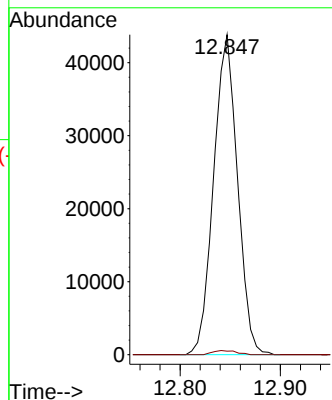
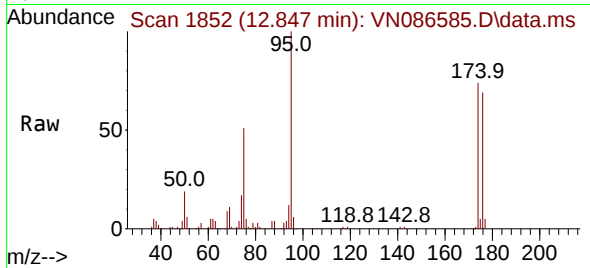




#76
1,2,3-Trichloropropane
Concen: 23.660 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#10

Tgt Ion: 75 Resp: 72437
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.822 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086585.D
Acq: 12 May 2025 16:53

Tgt Ion: 75 Resp: 72437
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

