

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086274.D
 Acq On : 14 Apr 2025 17:14
 Operator : JC\MD
 Sample : PB167573ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#06

Quant Time: Apr 15 03:14:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

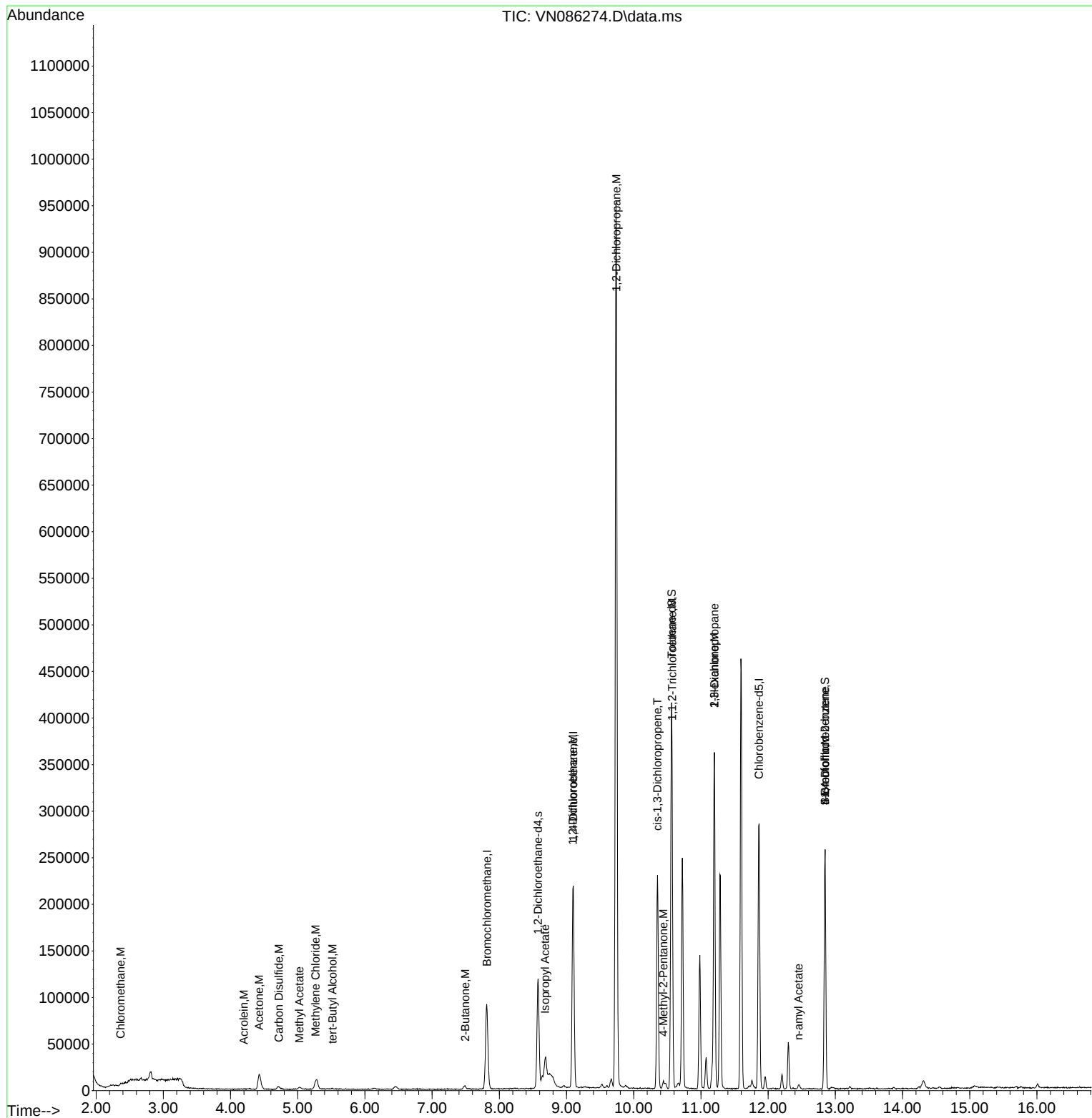
Internal Standards						
1) Bromochloromethane	7.818	128	32621	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	193248	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170995	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	95057	29.876	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.600%		
60) 4-Bromofluorobenzene	12.847	95	94970	27.896	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.000%		
63) Toluene-d8	10.565	98	289822	30.022	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.067%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	986	0.273	ug/l #	88
12) Methyl Acetate	5.024	43	4260	1.214	ug/l	95
13) Acrolein	4.201	56	255	0.640	ug/l #	35
15) Acetone	4.424	58	10083	26.854	ug/l	76
16) Carbon Disulfide	4.718	76	2630	0.369	ug/l #	90
18) Methylene Chloride	5.265	84	3789	1.338	ug/l	89
23) tert-Butyl Alcohol	5.518	59	289	0.471	ug/l #	100
30) 2-Butanone	7.494	43	6076	3.167	ug/l #	94
36) 1,2-Dichloroethane	9.094	62	6776	1.966	ug/l #	72
39) 1,2-Dichloropropane	9.741	63	1207	0.440	ug/l #	42
44) Isopropyl Acetate	8.683	43	26440	3.684	ug/l #	88
47) n-amyl Acetate	12.453	43	2988	0.525	ug/l #	64
49) cis-1,3-Dichloropropene	10.353	75	42616	9.367	ug/l #	62
50) 1,1,2-Trichloroethane	10.571	97	8943	3.602	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	3965	0.896	ug/l #	42
56) Bromoform	12.847	173	405	0.228	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	5446	1.403	ug/l	96
59) 2-Hexanone	11.200	43	55637	19.255	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.847	75	47759	30.478	ug/l #	12

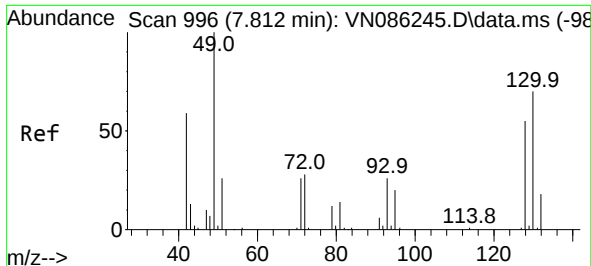
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:14:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

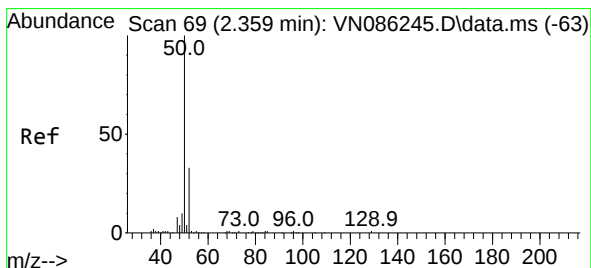
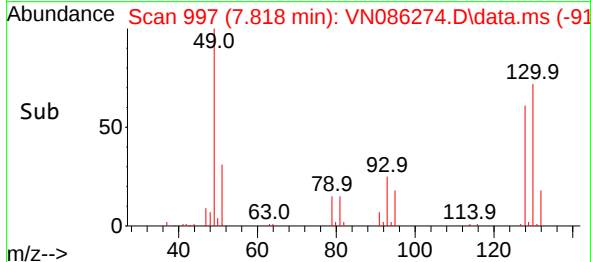
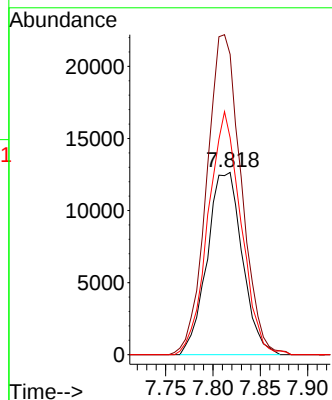
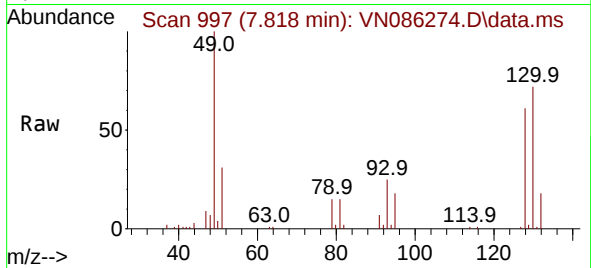




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

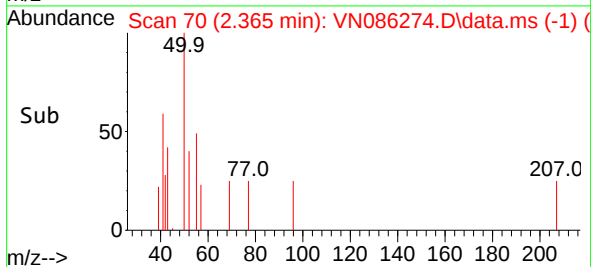
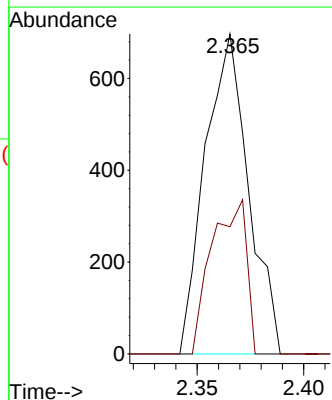
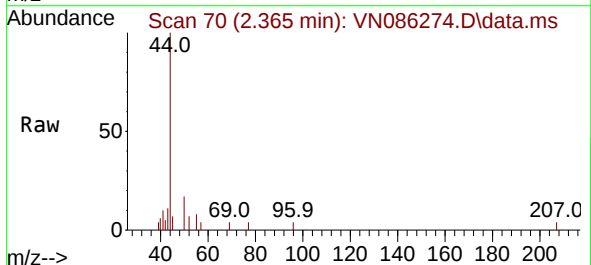
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06

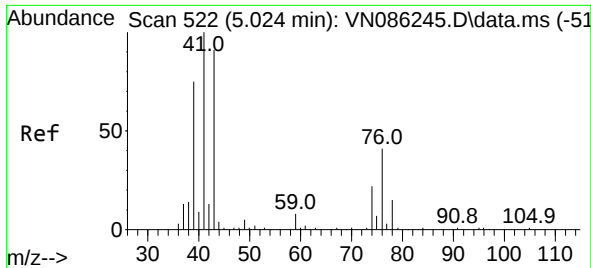
Tgt Ion:128 Resp: 32621
Ion Ratio Lower Upper
128 100
49 172.3 0.0 452.5
130 124.5 0.0 315.0



#3
Chloromethane
Concen: 0.273 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Tgt Ion: 50 Resp: 986
Ion Ratio Lower Upper
50 100
52 39.7 26.4 39.6#





#12

Methyl Acetate

Concen: 1.214 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086274.D

Acq: 14 Apr 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

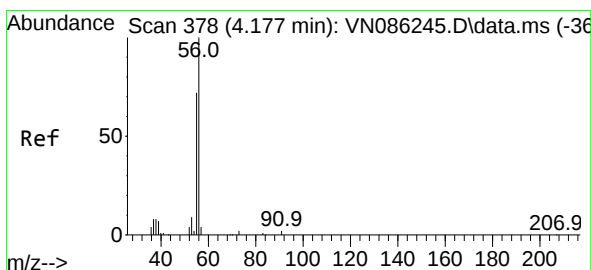
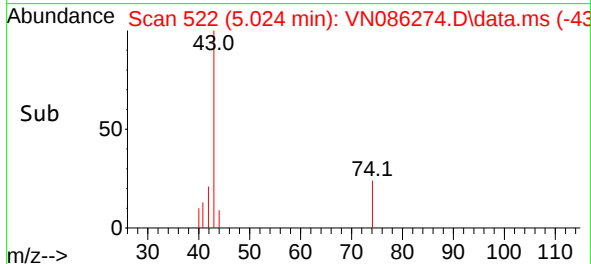
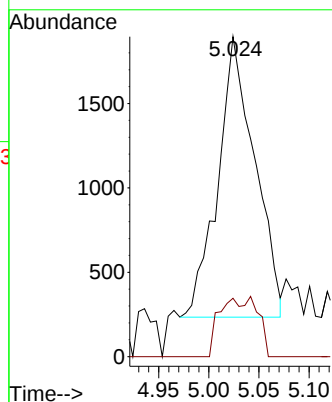
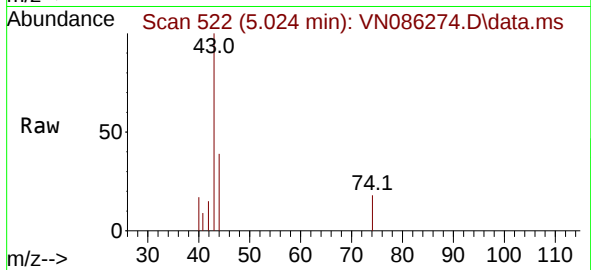
PB167573ZHE#06

Tgt Ion: 43 Resp: 4260

Ion Ratio Lower Upper

43 100

74 21.5 19.1 28.7



#13

Acrolein

Concen: 0.640 ug/l

RT: 4.201 min Scan# 382

Delta R.T. 0.024 min

Lab File: VN086274.D

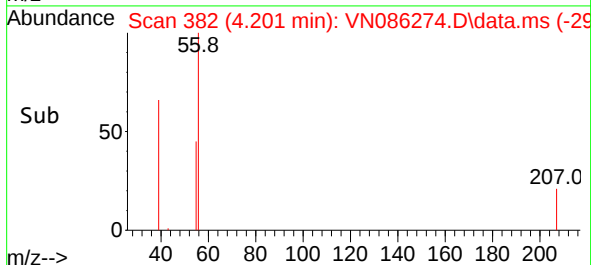
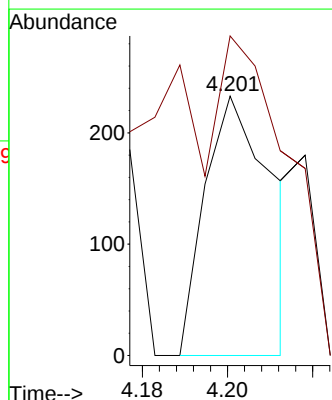
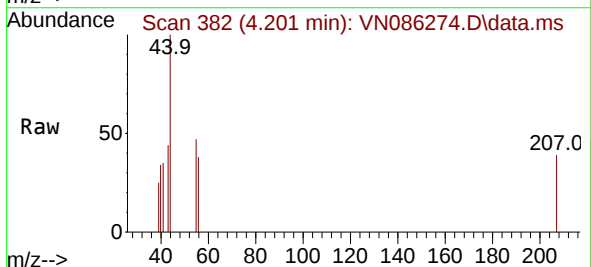
Acq: 14 Apr 2025 17:14

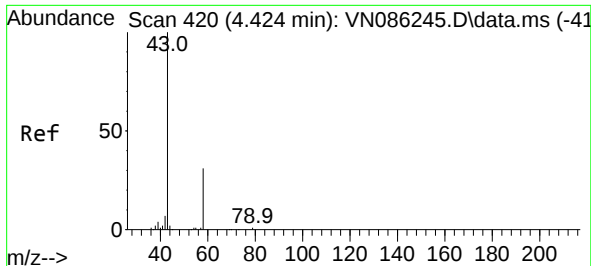
Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

56 100

55 124.3 56.5 84.7#





#15

Acetone

Concen: 26.854 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086274.D

Acq: 14 Apr 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

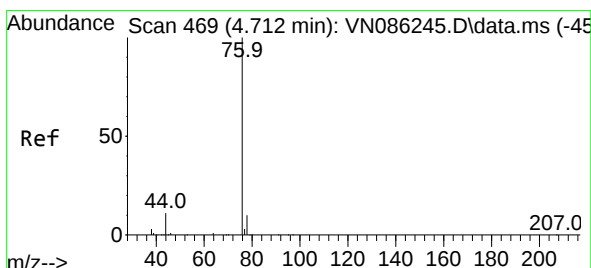
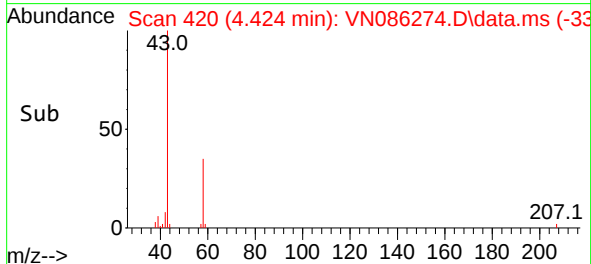
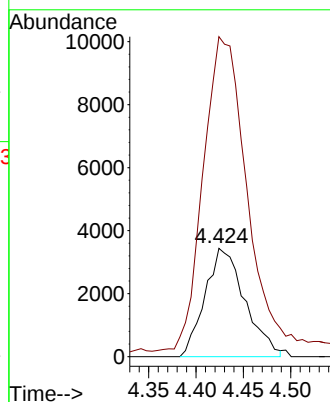
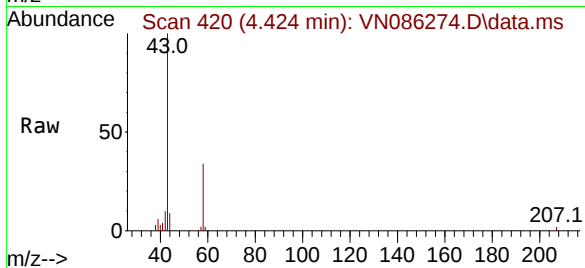
PB167573ZHE#06

Tgt Ion: 58 Resp: 10083

Ion Ratio Lower Upper

58 100

43 277.1 261.8 392.8



#16

Carbon Disulfide

Concen: 0.369 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN086274.D

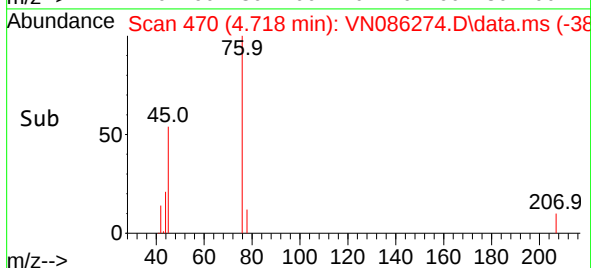
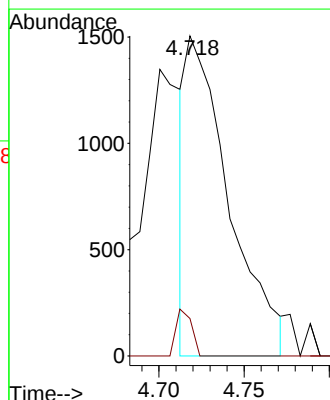
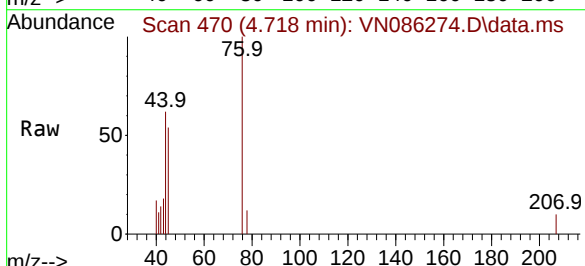
Acq: 14 Apr 2025 17:14

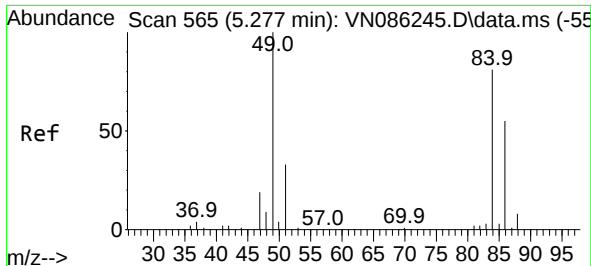
Tgt Ion: 76 Resp: 2630

Ion Ratio Lower Upper

76 100

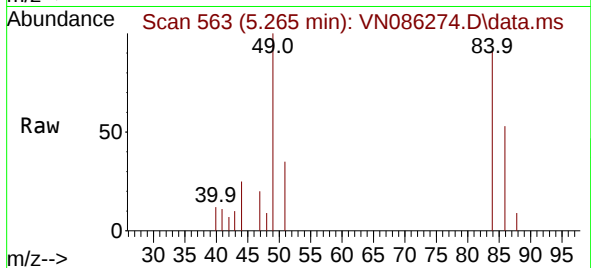
78 13.4 7.7 11.5#



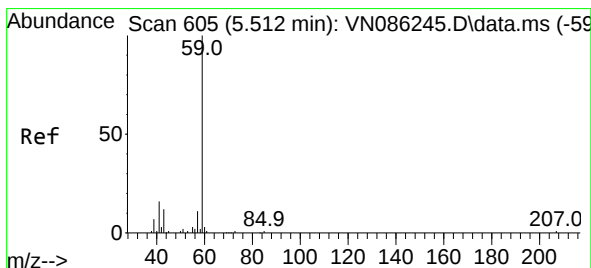
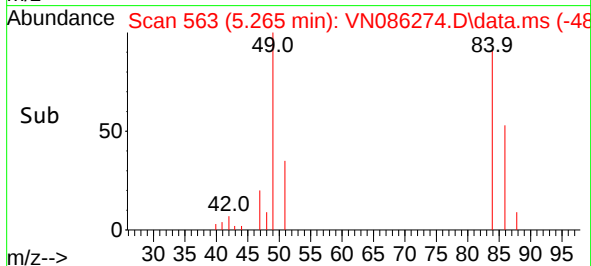
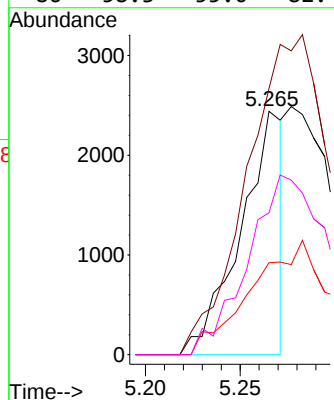


#18
Methylene Chloride
Concen: 1.338 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06

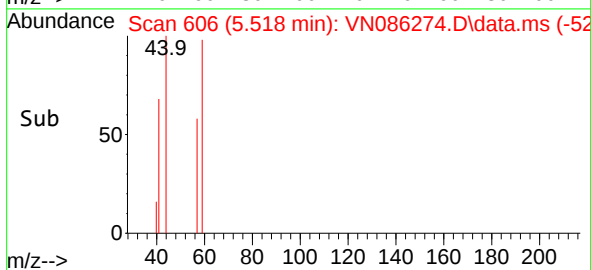
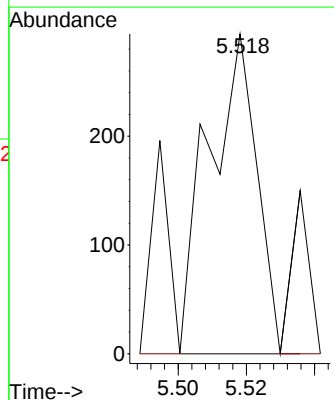
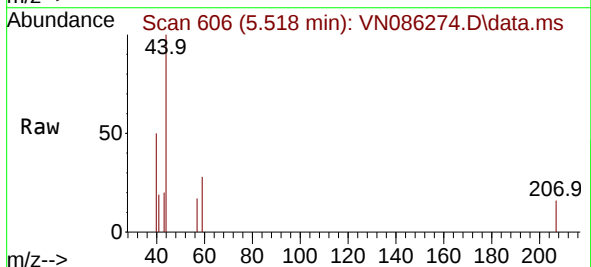


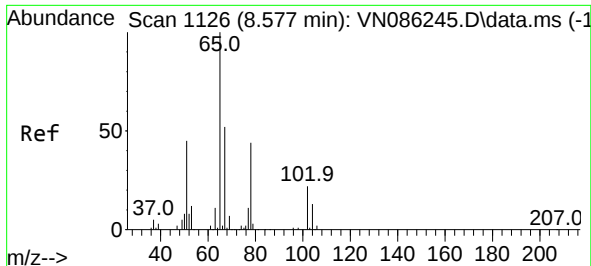
Tgt Ion:	84	Resp:	3789
Ion	Ratio	Lower	Upper
84	100		
49	109.4	99.1	148.7
51	37.8	32.3	48.5
86	58.3	55.0	82.4



#23
tert-Butyl Alcohol
Concen: 0.471 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Tgt Ion:	59	Resp:	289
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

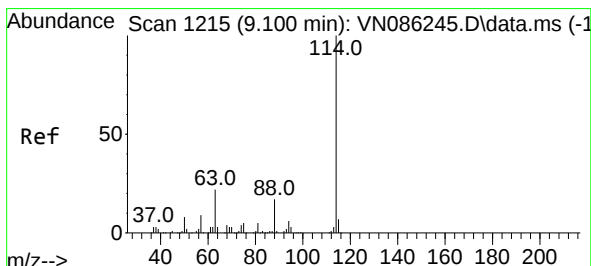
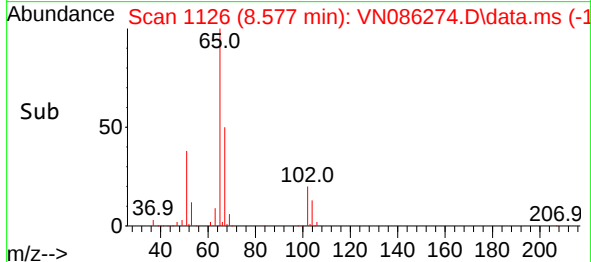
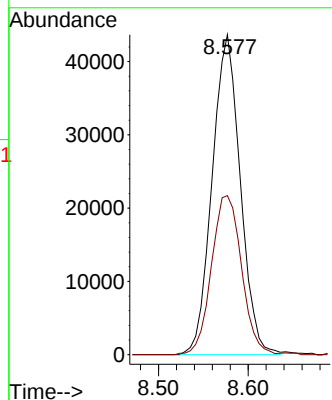
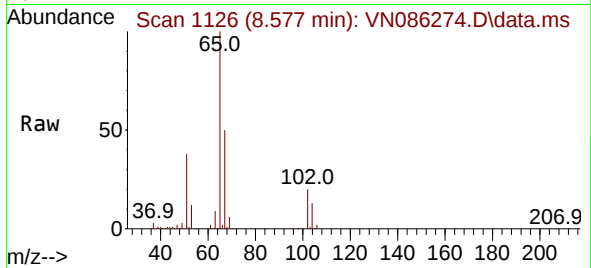




#27
 1,2-Dichloroethane-d4
 Concen: 29.876 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN086274.D
 Acq: 14 Apr 2025 17:14

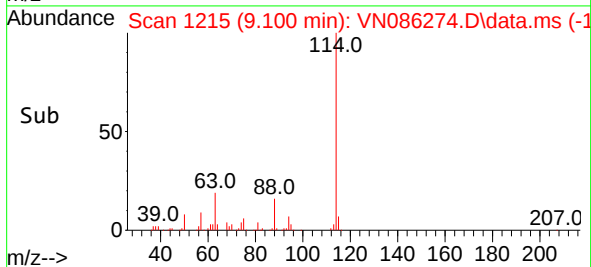
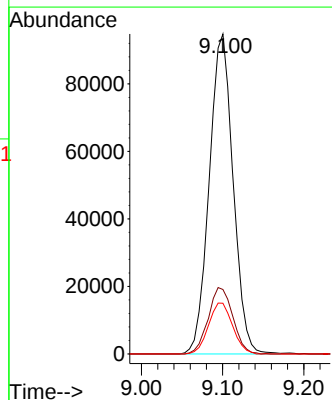
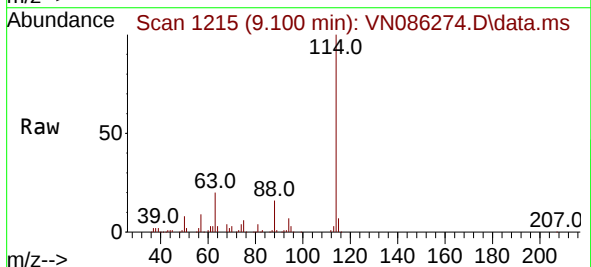
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 MSVOA_N
 ClientSampleId :
 PB167573ZHE#06

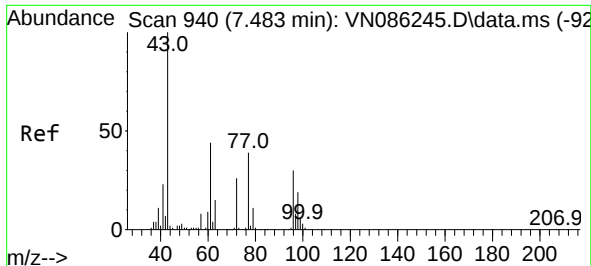
Tgt Ion: 65 Resp: 95057
 Ion Ratio Lower Upper
 65 100
 67 53.1 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN086274.D
 Acq: 14 Apr 2025 17:14

Tgt Ion: 114 Resp: 193248
 Ion Ratio Lower Upper
 114 100
 63 21.3 17.8 26.6
 88 16.1 13.4 20.2

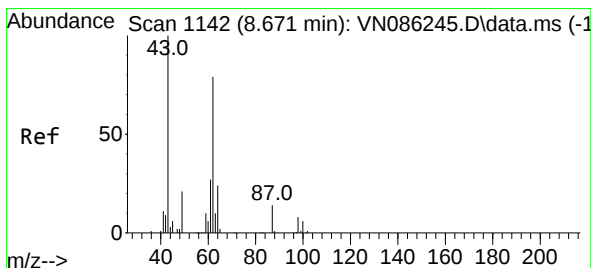
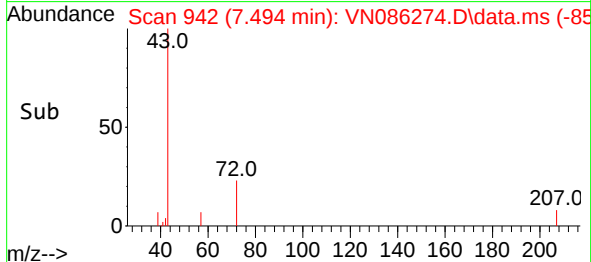
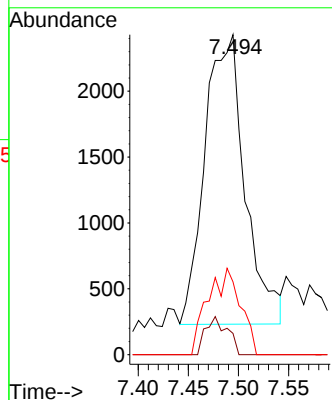
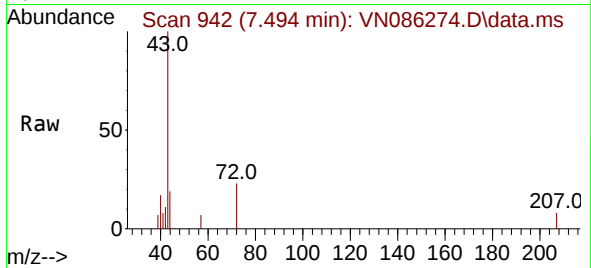




#30
2-Butanone
Concen: 3.167 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

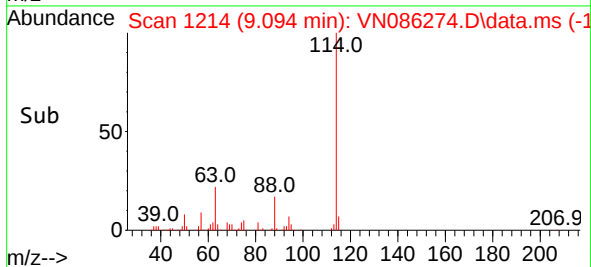
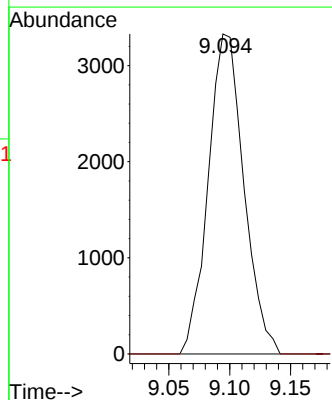
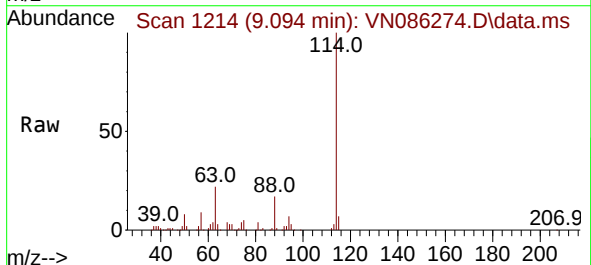
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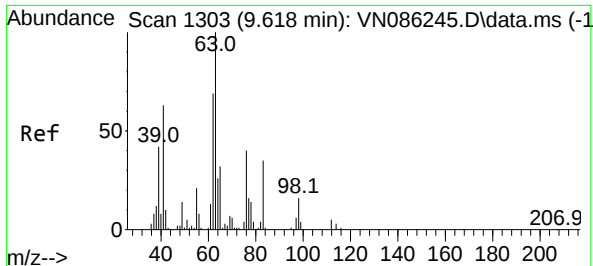
Tgt Ion: 43 Resp: 6076
Ion Ratio Lower Upper
43 100
57 5.1 6.4 9.6#
72 24.4 21.5 32.3



#36
1,2-Dichloroethane
Concen: 1.966 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.424 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Tgt Ion: 62 Resp: 6776
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.440 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN086274.D

Acq: 14 Apr 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

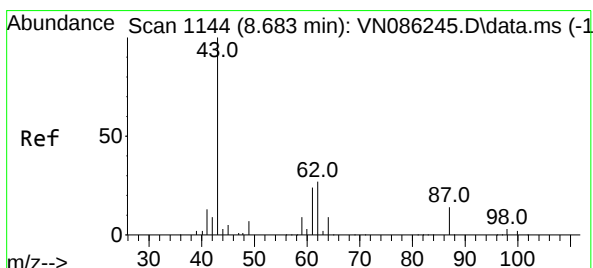
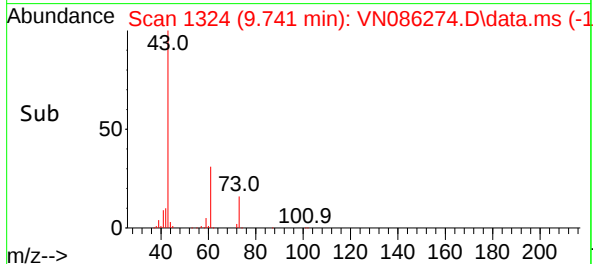
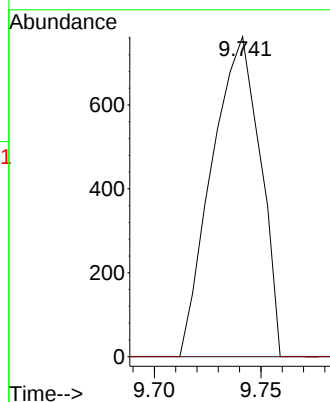
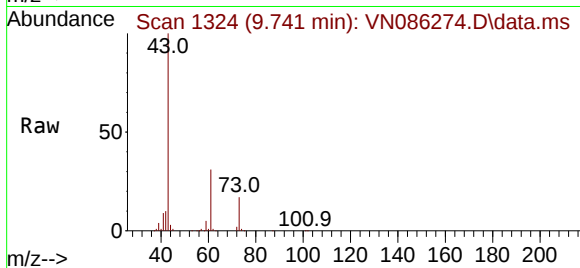
PB167573ZHE#06

Tgt Ion: 63 Resp: 1207

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 3.684 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086274.D

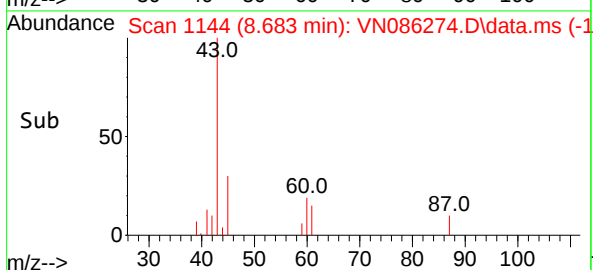
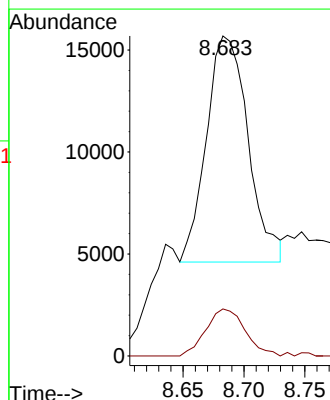
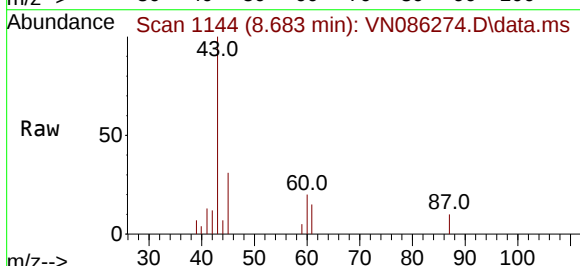
Acq: 14 Apr 2025 17:14

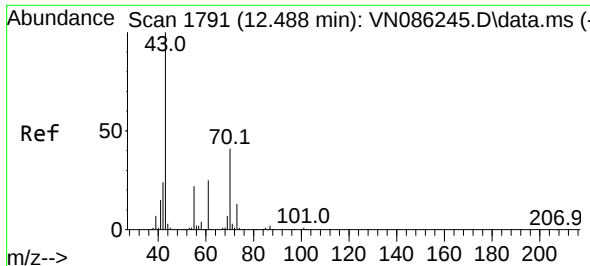
Tgt Ion: 43 Resp: 26440

Ion Ratio Lower Upper

43 100

61 19.5 20.5 30.7#

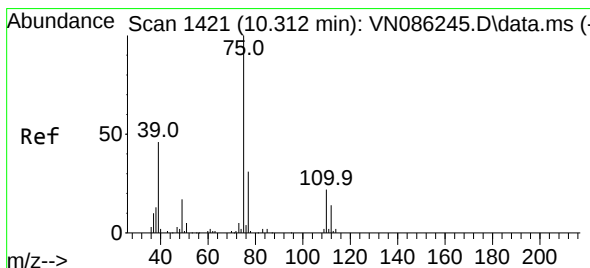
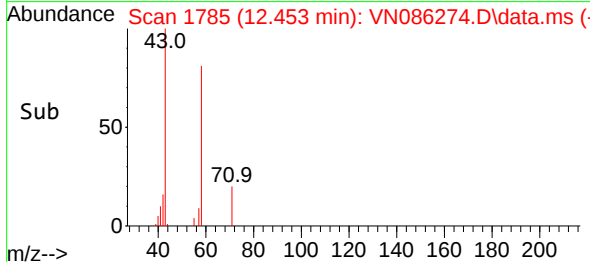
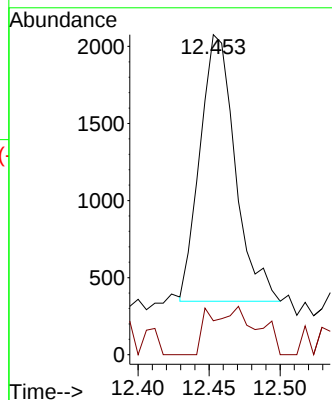
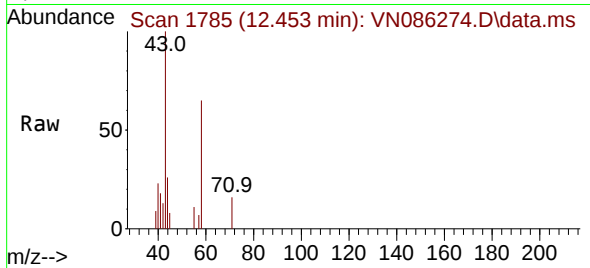




#47
n-amyl acetate
Concen: 0.525 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

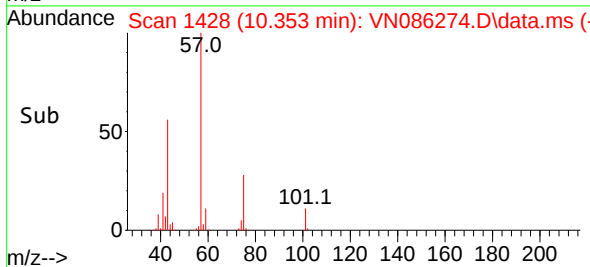
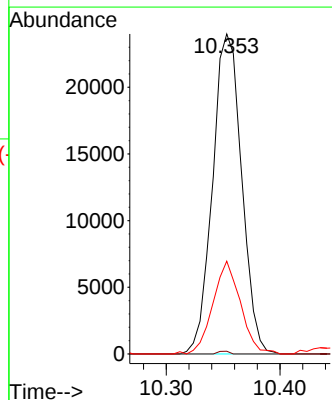
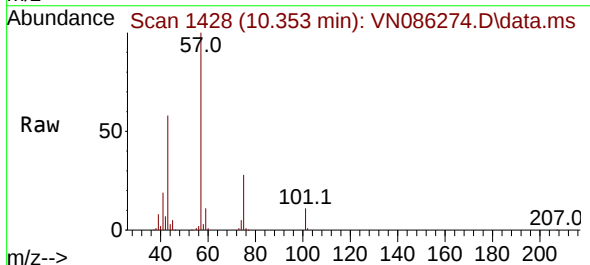
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06

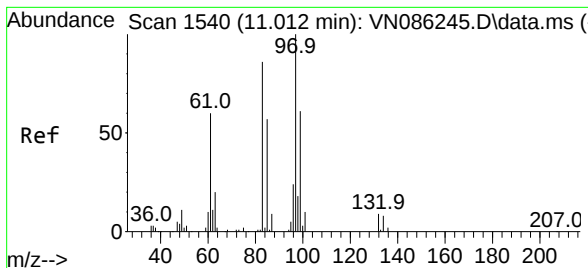
Tgt Ion: 43 Resp: 2988
Ion Ratio Lower Upper
43 100
55 6.2 19.0 28.4#



#49
cis-1,3-Dichloropropene
Concen: 9.367 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Tgt Ion: 75 Resp: 42616
Ion Ratio Lower Upper
75 100
77 0.8 25.0 37.4#
39 29.0 36.7 55.1#

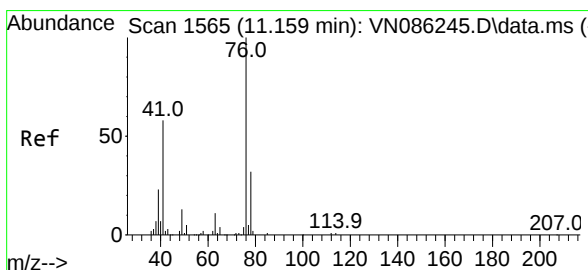
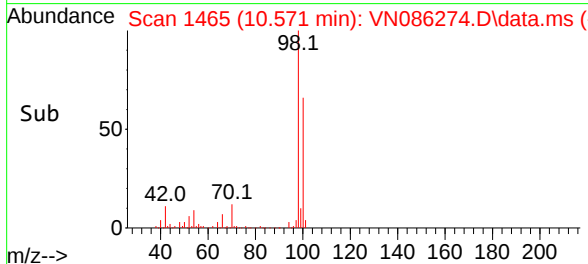
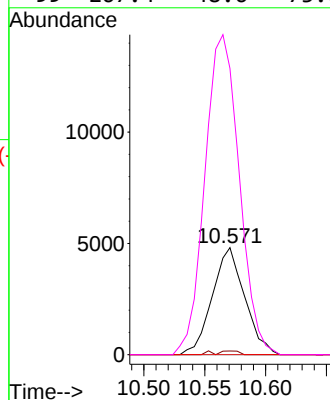
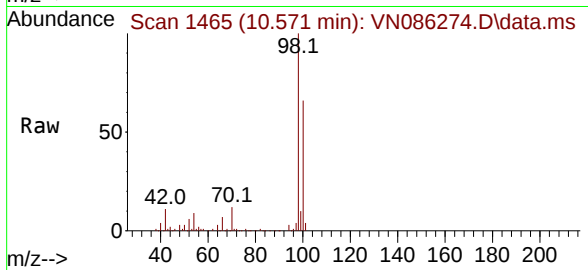




#50
 1,1,2-Trichloroethane
 Concen: 3.602 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086274.D
 Acq: 14 Apr 2025 17:14

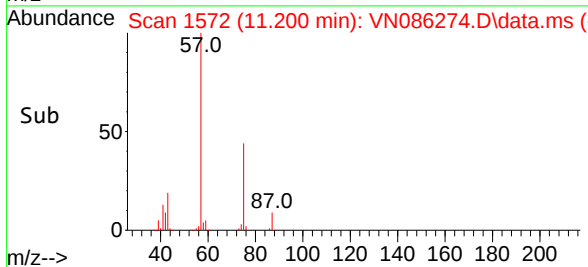
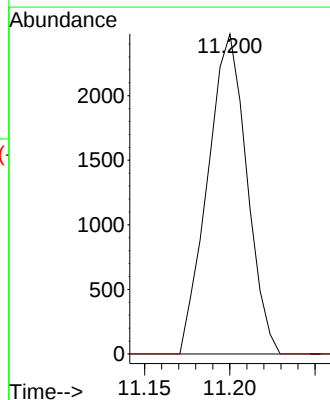
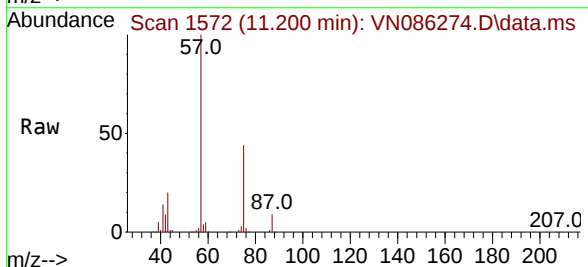
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#06

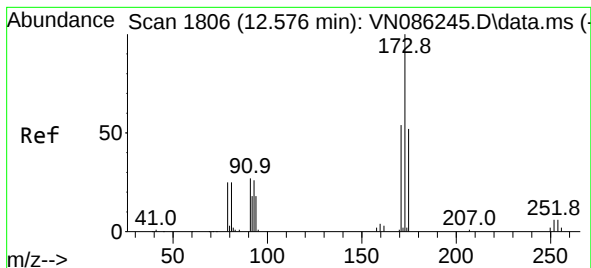
Tgt Ion: 97 Resp: 8943
 Ion Ratio Lower Upper
 97 100
 83 3.5 68.6 103.0#
 85 0.0 45.9 68.9#
 99 267.4 48.6 73.0#



#52
 1,3-Dichloropropane
 Concen: 0.896 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086274.D
 Acq: 14 Apr 2025 17:14

Tgt Ion: 76 Resp: 3965
 Ion Ratio Lower Upper
 76 100
 78 0.0 0.0 64.6





#56

Bromoform

Concen: 0.228 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086274.D

Acq: 14 Apr 2025 17:14

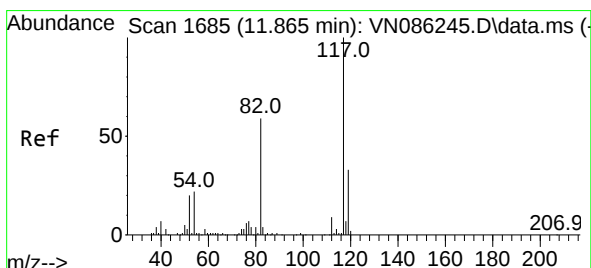
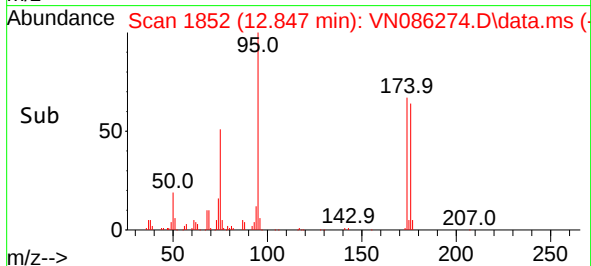
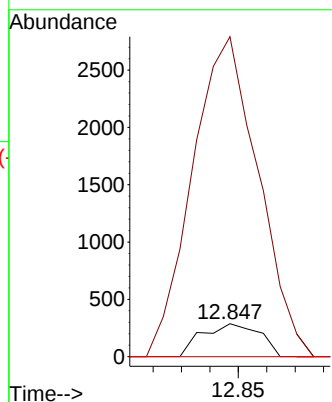
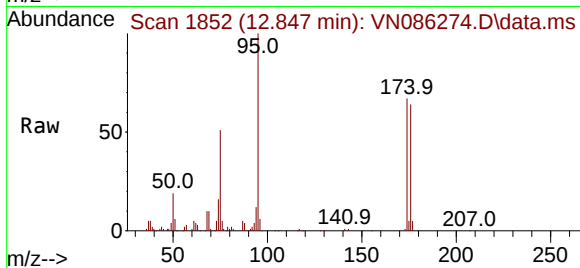
Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#06

Tgt Ion:	173	Resp:	405
Ion Ratio	Lower	Upper	
173	100		
175	1112.8	38.2	57.4#
254	0.0	4.5	6.7#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

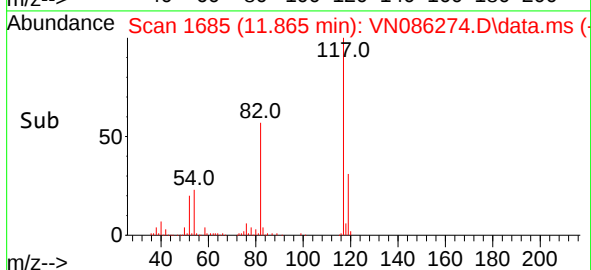
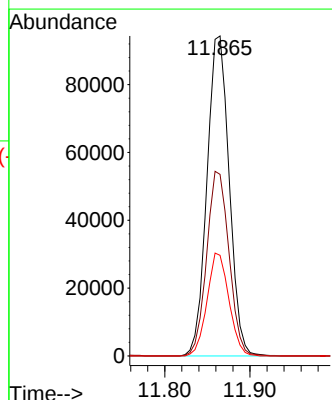
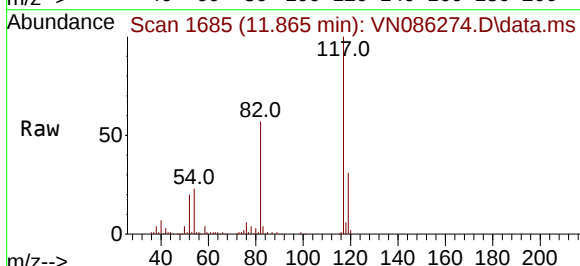
RT: 11.865 min Scan# 1685

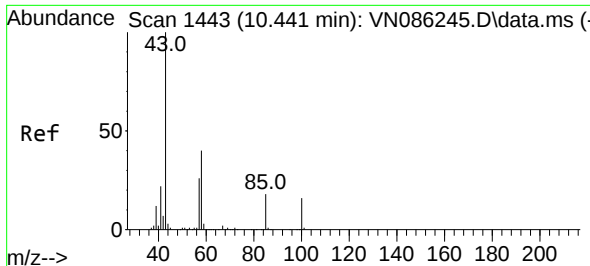
Delta R.T. 0.000 min

Lab File: VN086274.D

Acq: 14 Apr 2025 17:14

Tgt Ion:	117	Resp:	170995
Ion Ratio	Lower	Upper	
117	100		
82	58.1	47.3	70.9
119	31.6	25.9	38.9

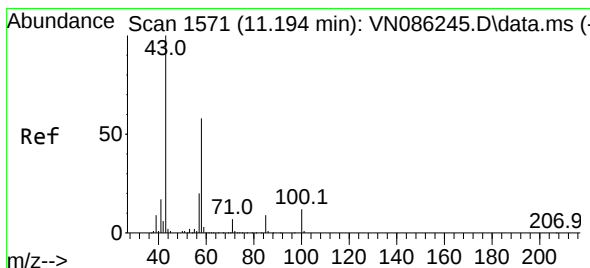
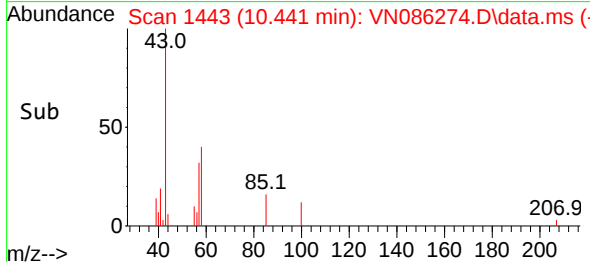
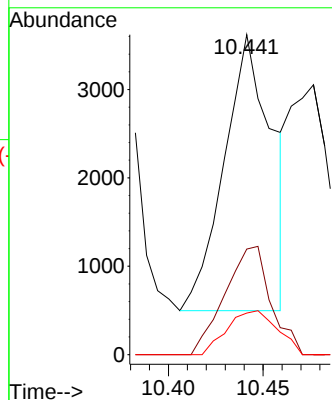
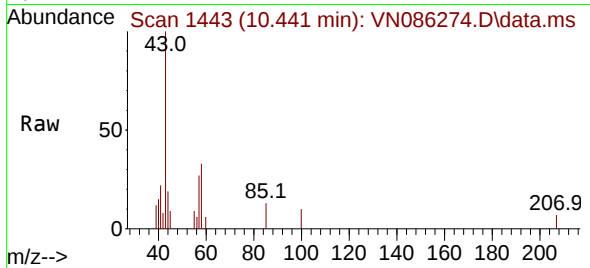




#58
4-Methyl-2-Pentanone
Concen: 1.403 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

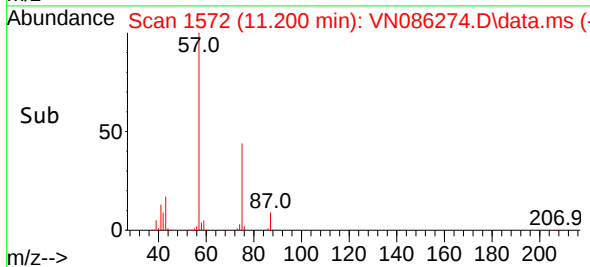
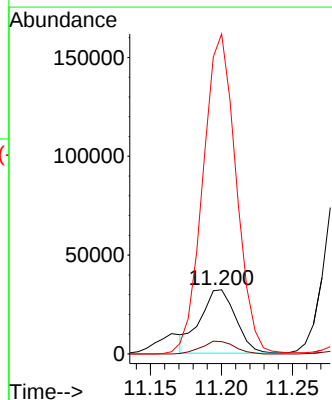
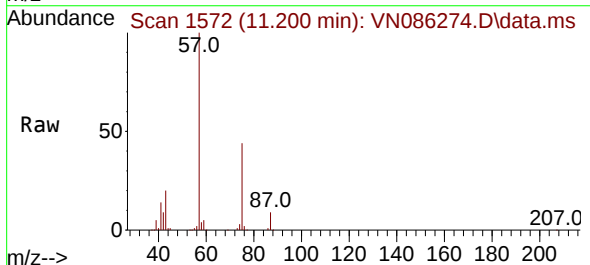
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06

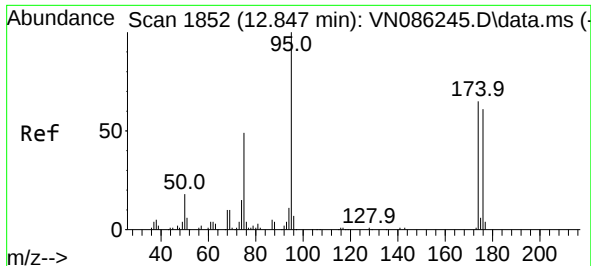
Tgt Ion:	43	Resp:	5446
Ion Ratio	Lower	Upper	
43	100		
58	38.0	32.5	48.7
85	16.8	14.4	21.6



#59
2-Hexanone
Concen: 19.255 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Tgt Ion:	43	Resp:	55637
Ion Ratio	Lower	Upper	
43	100		
58	18.9	45.3	67.9#
57	473.4	15.8	23.6#

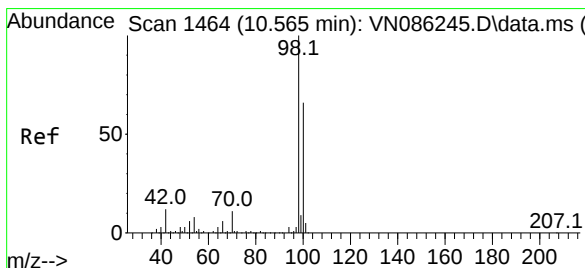
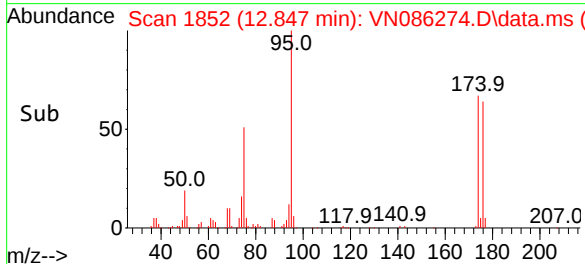
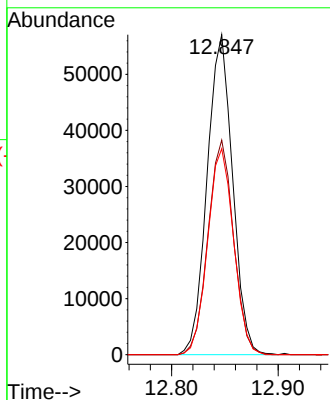
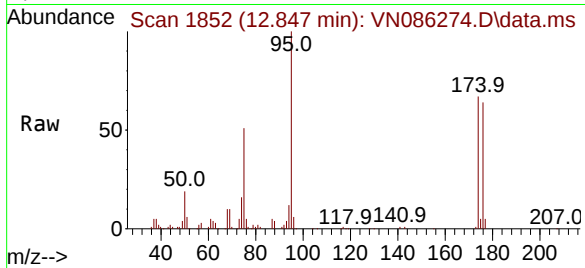




#60
4-Bromofluorobenzene
Concen: 27.896 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

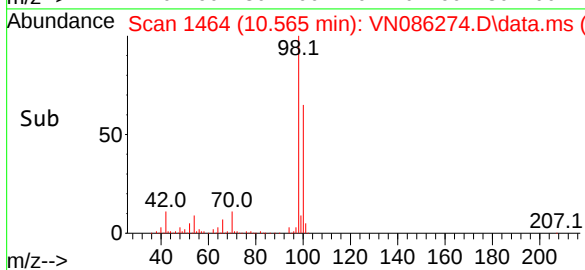
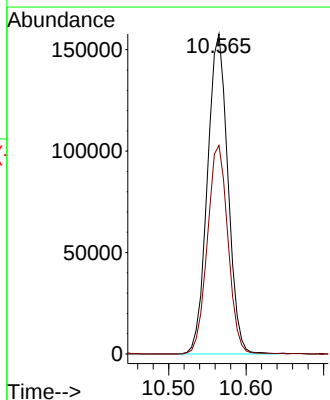
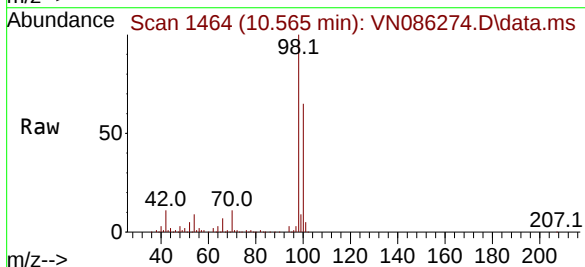
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06

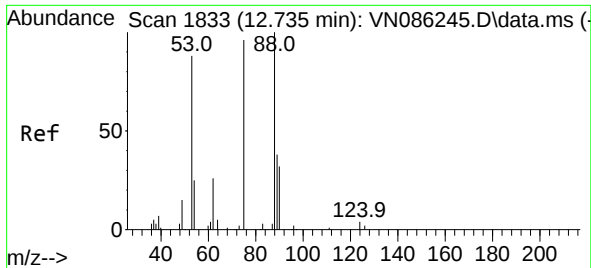
Tgt Ion: 95 Resp: 94970
Ion Ratio Lower Upper
95 100
174 67.2 52.7 79.1
176 65.3 49.8 74.8



#63
Toluene-d8
Concen: 30.022 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

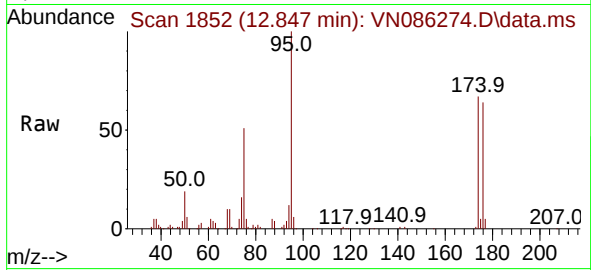
Tgt Ion: 98 Resp: 289822
Ion Ratio Lower Upper
98 100
100 65.5 52.3 78.5





#77
t-1,4-Dichloro-2-butene
Concen: 30.478 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086274.D
Acq: 14 Apr 2025 17:14

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#06



Tgt Ion: 75 Resp: 47759
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

