

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040125\
 Data File : VN086196.D
 Acq On : 01 Apr 2025 15:13
 Operator : JC\MD
 Sample : Q1659-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3808

Quant Time: Apr 02 01:53:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

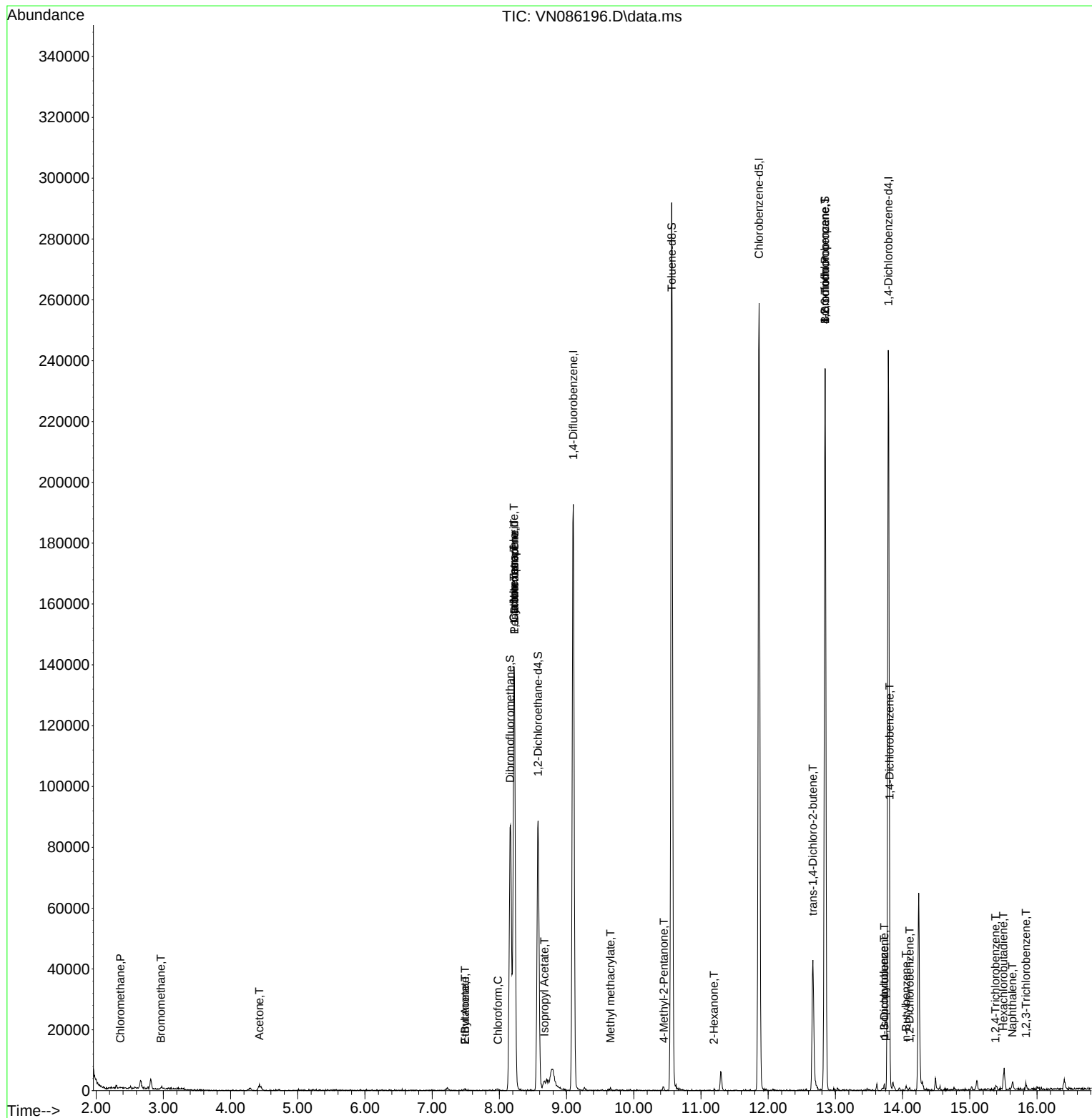
Internal Standards						
1) Pentafluorobenzene	8.224	168	97797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	168481	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	150741	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	67132	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	79299	59.215	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.420%			
35) Dibromofluoromethane	8.159	113	61917	52.652	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.300%			
50) Toluene-d8	10.565	98	201885	47.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.600%			
62) 4-Bromofluorobenzene	12.847	95	81193	53.343	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.680%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	235	0.207	ug/l #	42
5) Bromomethane	2.965	94	369	0.466	ug/l #	76
16) Acetone	4.430	43	3783	9.246	ug/l #	84
25) 2-Butanone	7.488	43	959	1.624	ug/l #	40
30) Chloroform	7.977	83	713	0.329	ug/l	86
31) Cyclohexane	8.218	56	2072	1.242	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	7807	5.042	ug/l #	51
37) Ethyl Acetate	7.488	43	959	0.734	ug/l #	64
38) Carbon Tetrachloride	8.218	117	11015	5.410	ug/l #	19
43) Isopropyl Acetate	8.671	43	2357	0.833	ug/l #	50
48) Methyl methacrylate	9.653	41	201	0.215	ug/l #	7
51) 4-Methyl-2-Pentanone	10.447	43	926	0.742	ug/l #	77
59) 2-Hexanone	11.194	43	290	0.319	ug/l #	18
71) Bromoform	12.847	173	787	0.734	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	42741	28.438	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.664	75	2714	4.774	ug/l #	30
86) p-Isopropyltoluene	13.723	119	924	0.253	ug/l #	80
87) 1,3-Dichlorobenzene	13.729	146	488	0.212	ug/l #	55
88) 1,4-Dichlorobenzene	13.806	146	701	0.290	ug/l #	73
89) n-Butylbenzene	14.053	91	1161	0.390	ug/l #	79
91) 1,2-Dichlorobenzene	14.106	146	531	0.232	ug/l #	78
93) 1,2,4-Trichlorobenzene	15.382	180	688	0.597	ug/l #	83
94) Hexachlorobutadiene	15.500	225	506	0.757	ug/l	83
95) Naphthalene	15.635	128	3411	1.023	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.835	180	868	0.794	ug/l	89

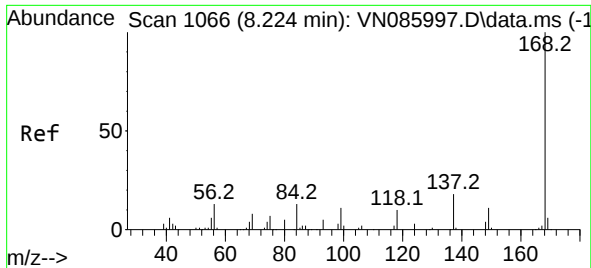
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040125\
Data File : VN086196.D
Acq On : 01 Apr 2025 15:13
Operator : JC\MD
Sample : Q1659-01 50X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
3808

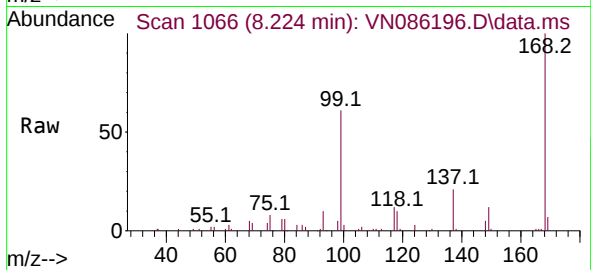
Quant Time: Apr 02 01:53:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration



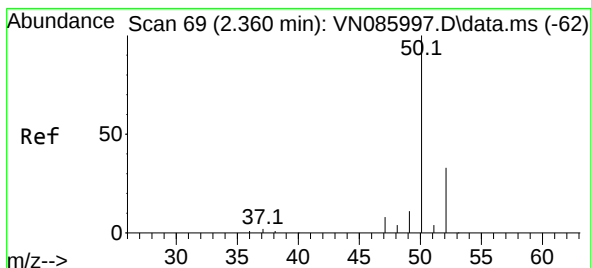
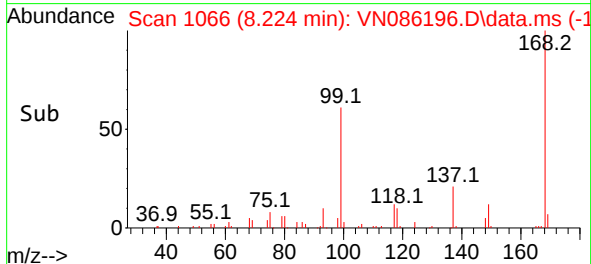
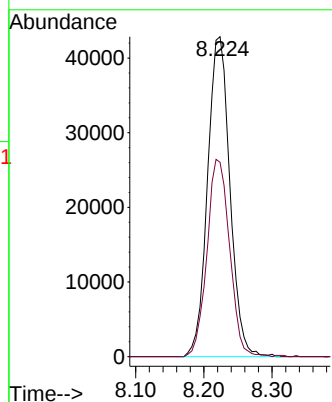


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Instrument :
MSVOA_N
ClientSampleId :
3808

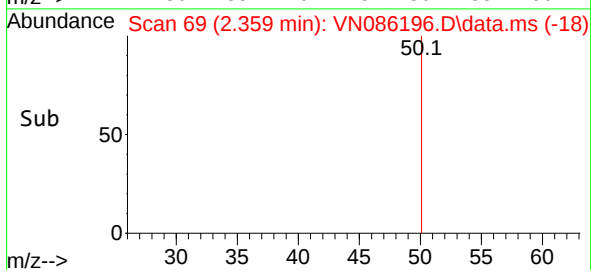
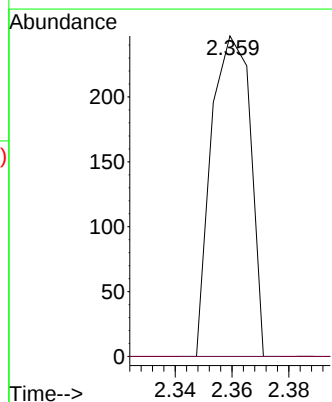
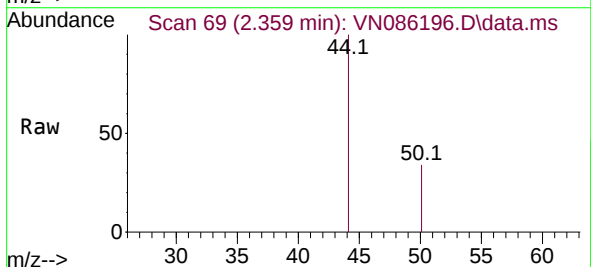


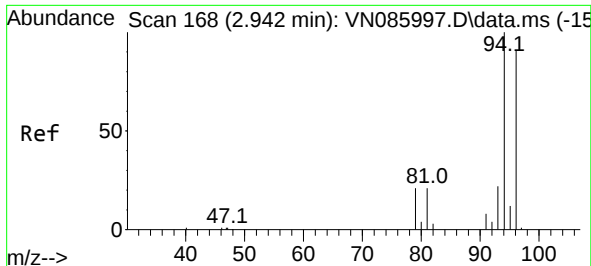
Tgt Ion:168 Resp: 97797
Ion Ratio Lower Upper
168 100
99 60.8 49.4 74.2



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 50 Resp: 235
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#





#5

Bromomethane

Concen: 0.466 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.023 min

Lab File: VN086196.D

Acq: 01 Apr 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

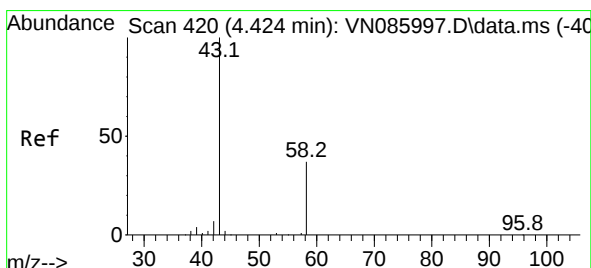
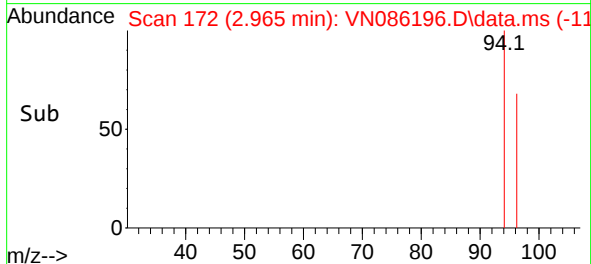
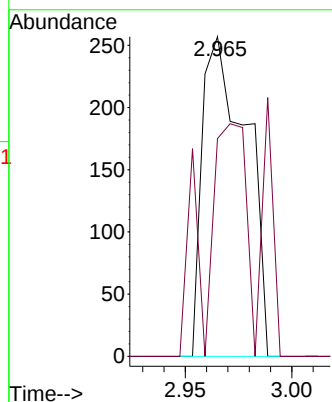
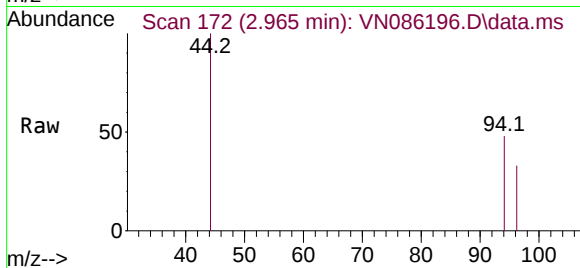
3808

Tgt Ion: 94 Resp: 369

Ion Ratio Lower Upper

94 100

96 68.1 72.8 109.2#



#16

Acetone

Concen: 9.246 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN086196.D

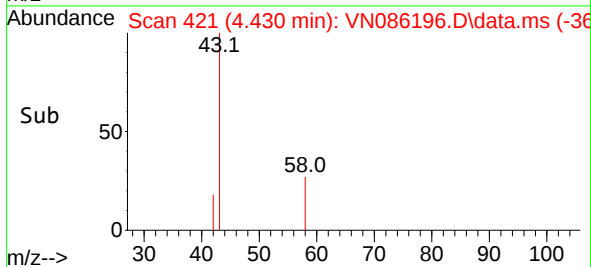
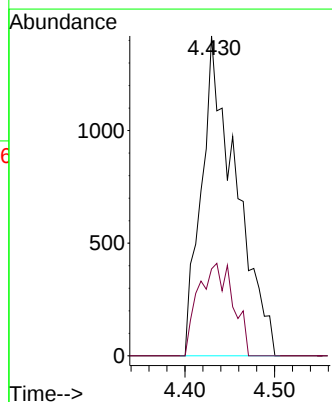
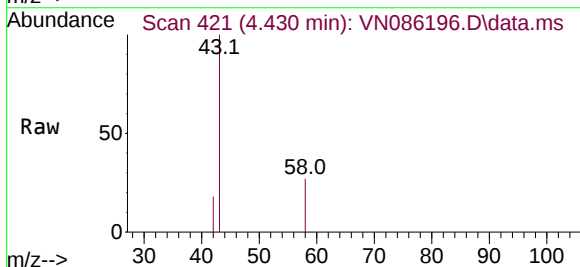
Acq: 01 Apr 2025 15:13

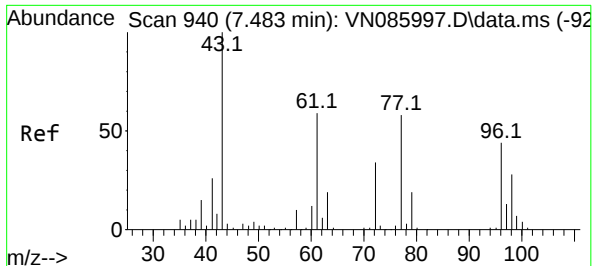
Tgt Ion: 43 Resp: 3783

Ion Ratio Lower Upper

43 100

58 27.2 29.4 44.2#





#25

2-Butanone

Concen: 1.624 ug/l

RT: 7.488 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN086196.D

Acq: 01 Apr 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

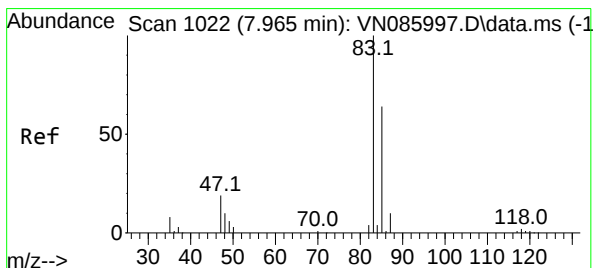
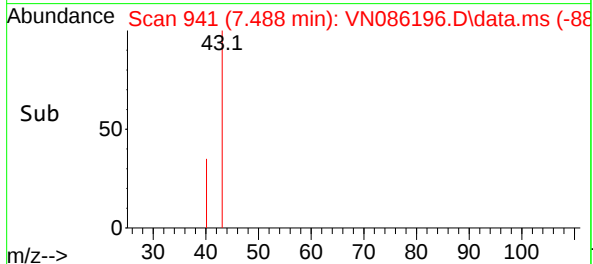
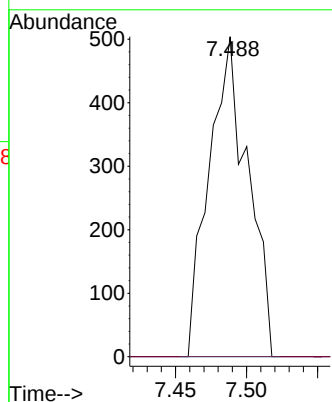
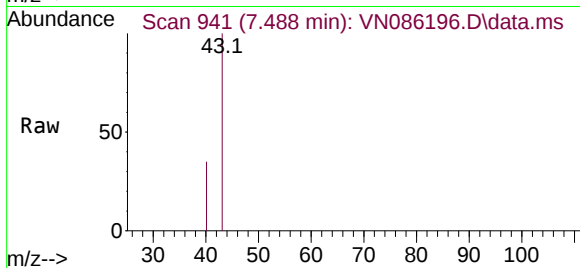
3808

Tgt Ion: 43 Resp: 959

Ion Ratio Lower Upper

43 100

72 0.0 27.4 41.0#



#30

Chloroform

Concen: 0.329 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.011 min

Lab File: VN086196.D

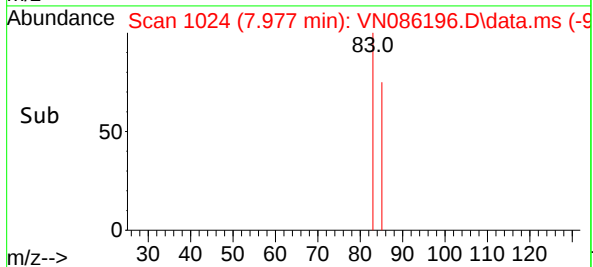
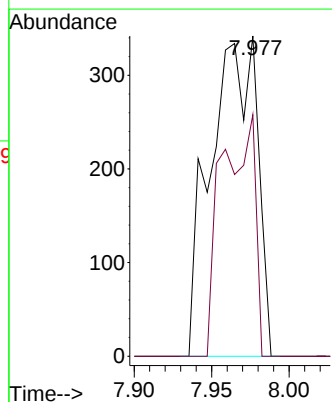
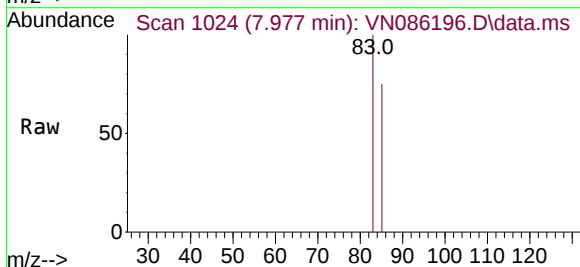
Acq: 01 Apr 2025 15:13

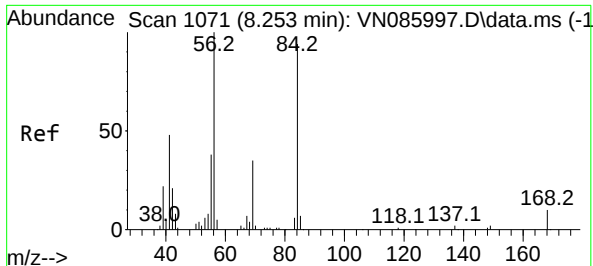
Tgt Ion: 83 Resp: 713

Ion Ratio Lower Upper

83 100

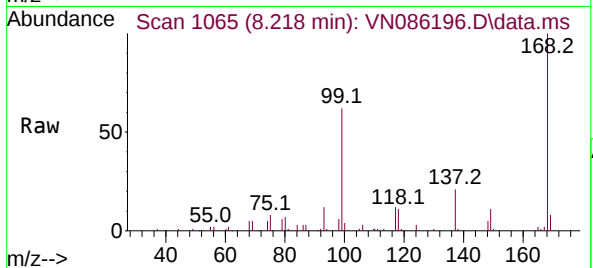
85 75.4 51.5 77.3



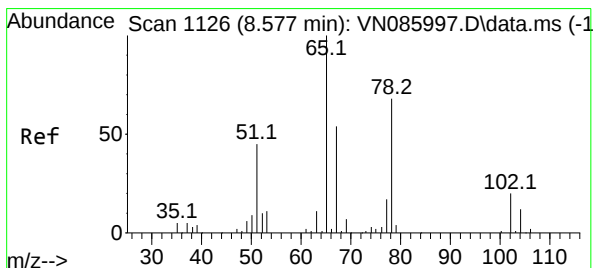
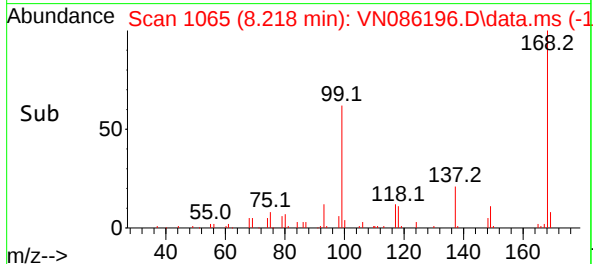
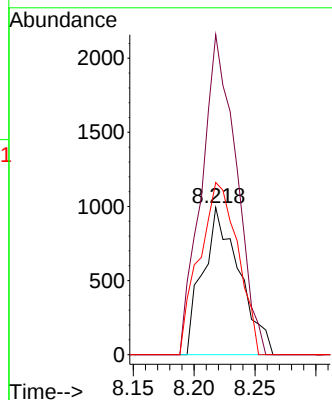


#31
Cyclohexane
Concen: 1.242 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Instrument :
MSVOA_N
ClientSampleId :
3808

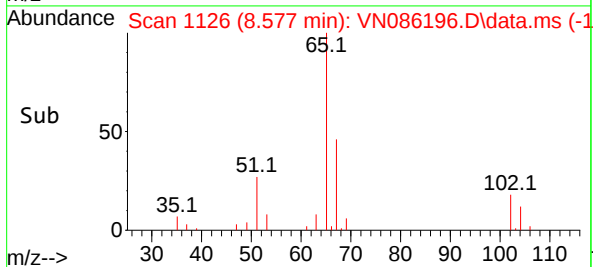
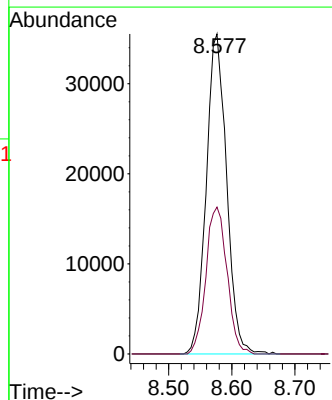
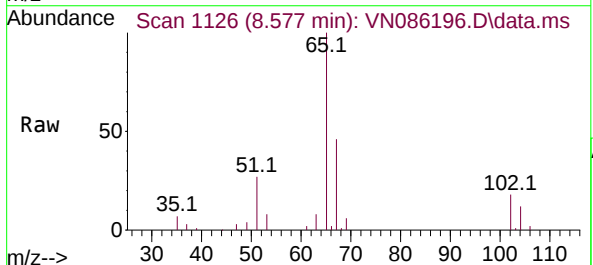


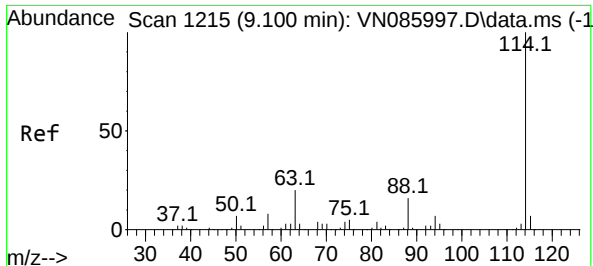
Tgt Ion: 56 Resp: 2072
Ion Ratio Lower Upper
56 100
69 217.4 28.0 42.0#
84 117.0 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 59.215 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 65 Resp: 79299
Ion Ratio Lower Upper
65 100
67 47.7 0.0 102.2

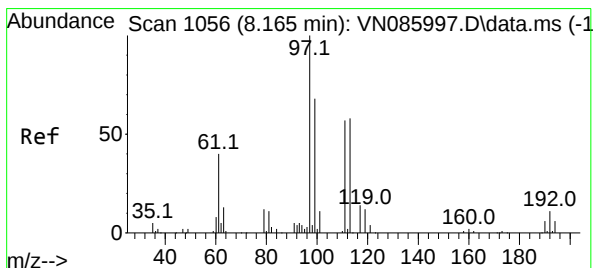
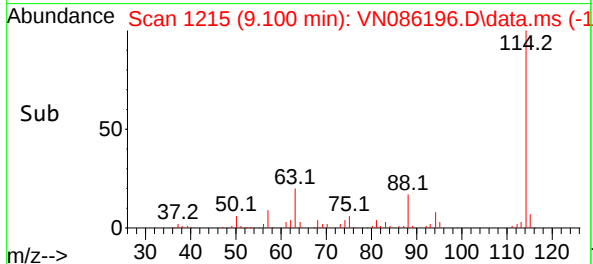
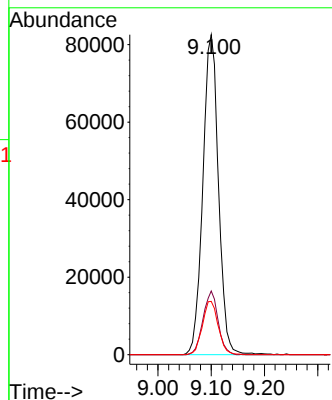
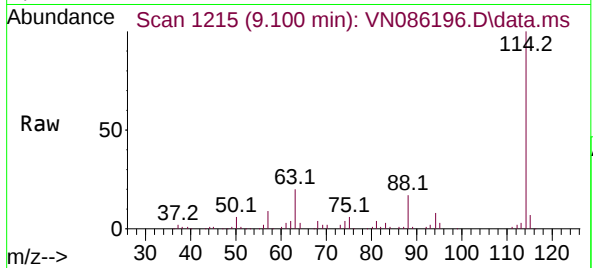




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

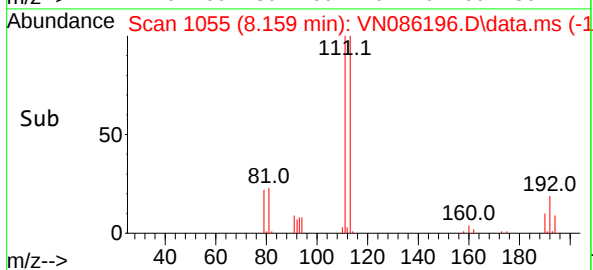
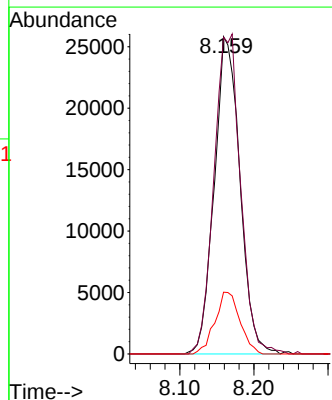
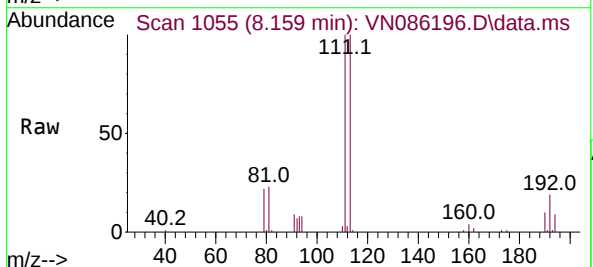
Instrument :
MSVOA_N
ClientSampleId :
3808

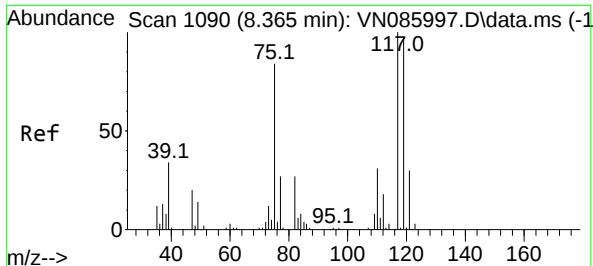
Tgt Ion:114 Resp: 168481
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.6
88 16.7 0.0 32.6



#35
Dibromofluoromethane
Concen: 52.652 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion:113 Resp: 61917
Ion Ratio Lower Upper
113 100
111 104.5 81.8 122.8
192 19.0 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.042 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086196.D

Acq: 01 Apr 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

3808

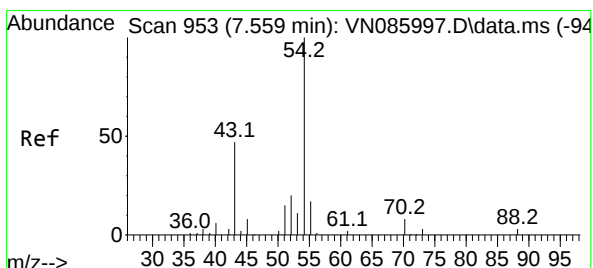
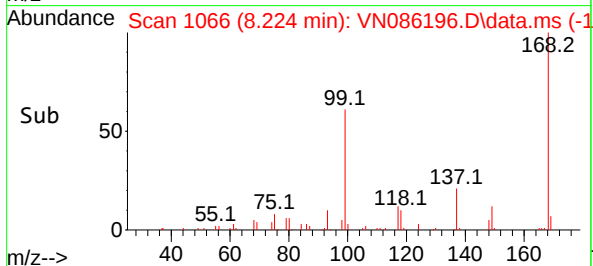
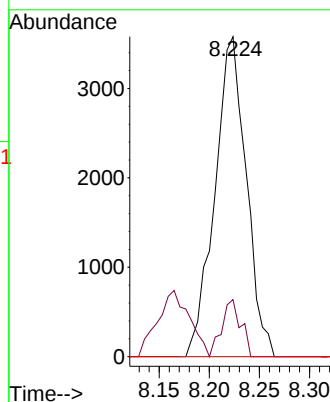
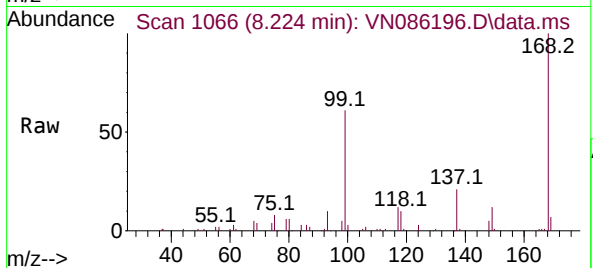
Tgt Ion: 75 Resp: 7807

Ion Ratio Lower Upper

75 100

110 10.8 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.734 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN086196.D

Acq: 01 Apr 2025 15:13

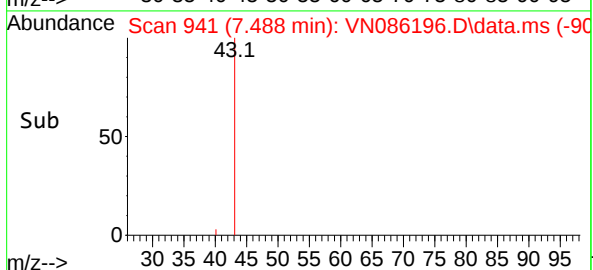
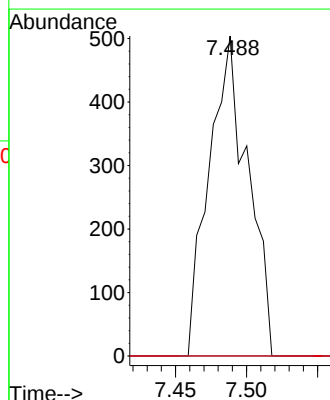
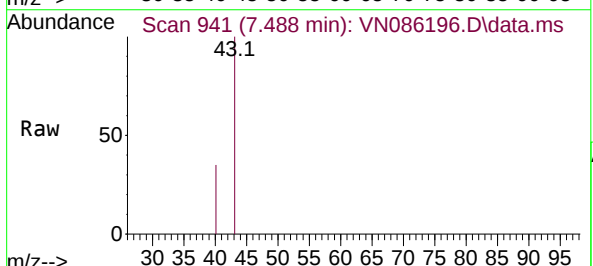
Tgt Ion: 43 Resp: 959

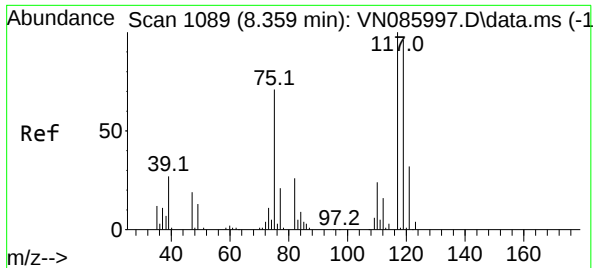
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

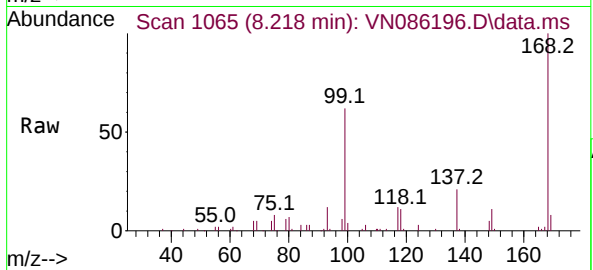
70 0.0 11.0 16.6#



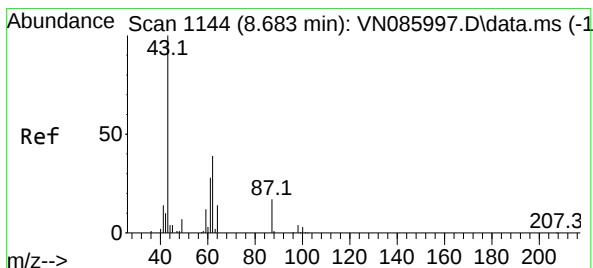
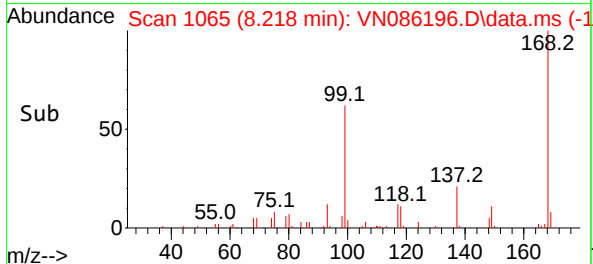
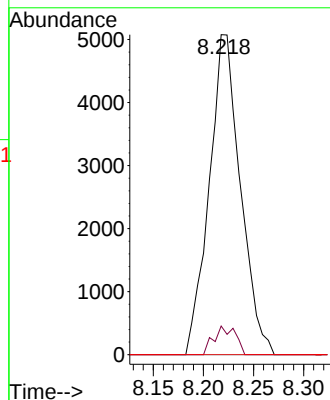


#38
Carbon Tetrachloride
Concen: 5.410 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Instrument :
MSVOA_N
ClientSampleId :
3808

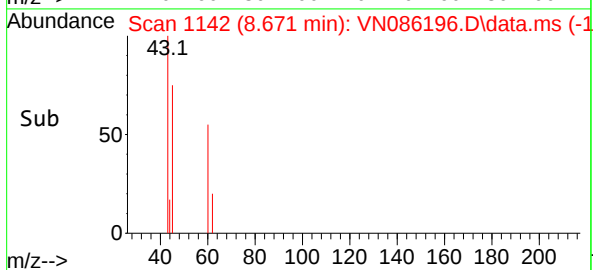
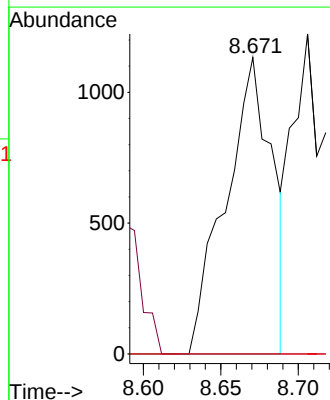
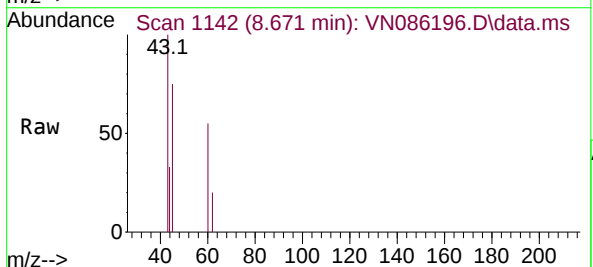


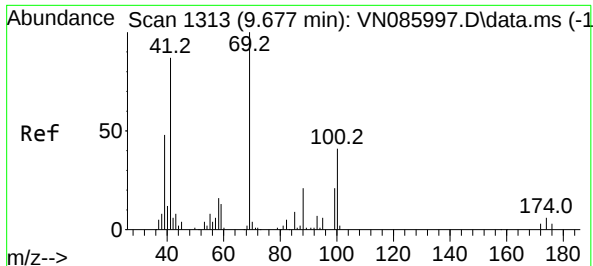
Tgt Ion:117 Resp: 11015
Ion Ratio Lower Upper
117 100
119 9.0 77.0 115.4#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 0.833 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.012 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 43 Resp: 2357
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#





#48

Methyl methacrylate

Concen: 0.215 ug/l

RT: 9.653 min Scan# 1

Delta R.T. -0.024 min

Lab File: VN086196.D

Acq: 01 Apr 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

3808

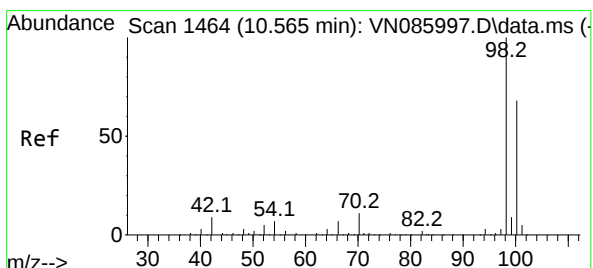
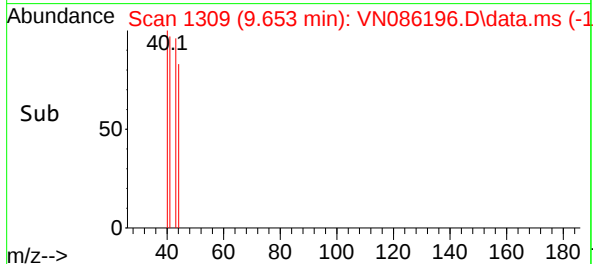
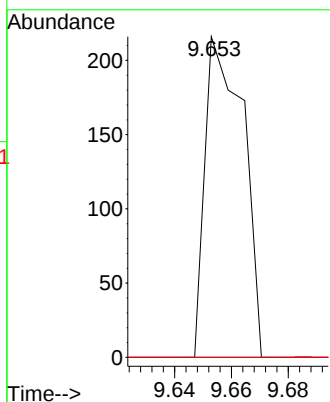
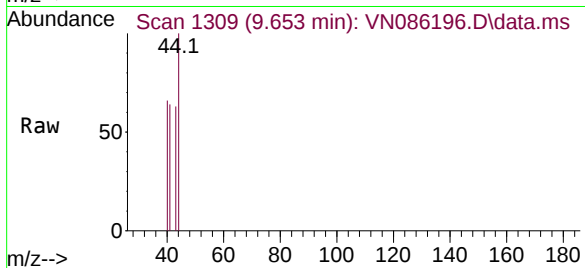
Tgt Ion: 41 Resp: 201

Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 0.0 45.6 68.4#



#50

Toluene-d8

Concen: 47.302 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086196.D

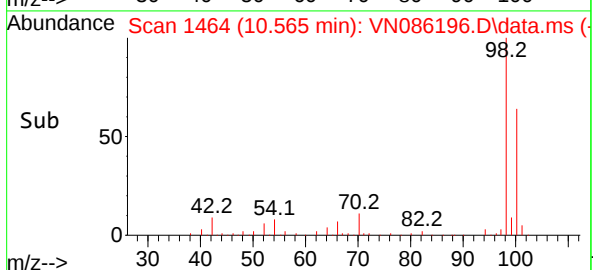
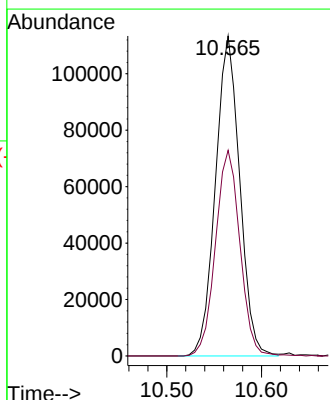
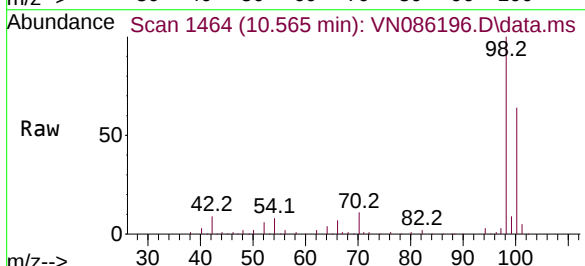
Acq: 01 Apr 2025 15:13

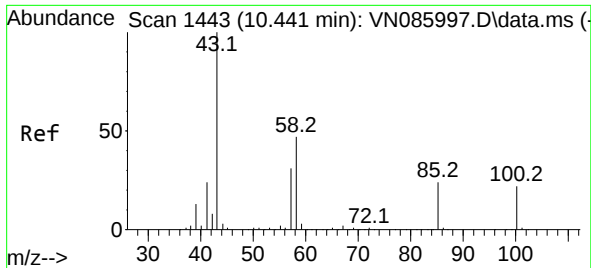
Tgt Ion: 98 Resp: 201885

Ion Ratio Lower Upper

98 100

100 64.7 53.1 79.7

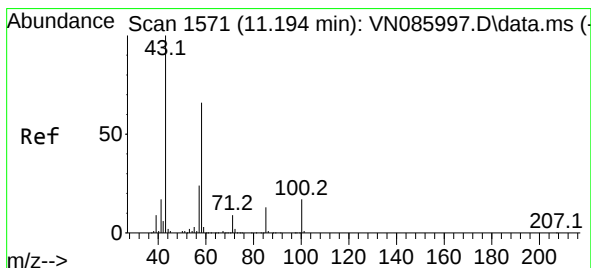
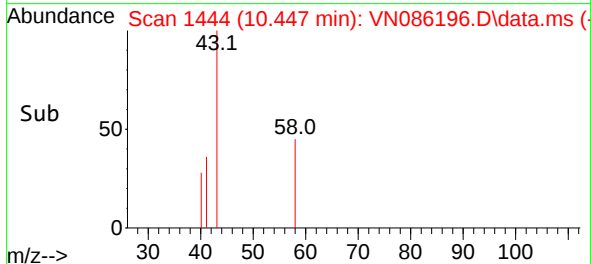
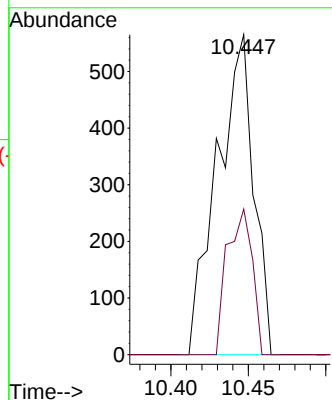
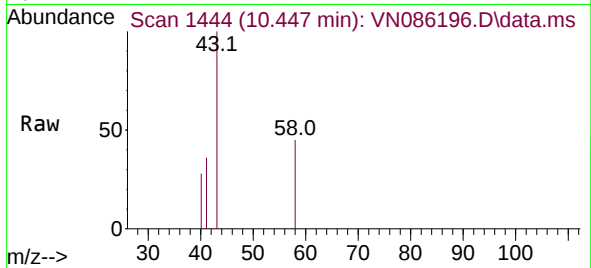




#51
4-Methyl-2-Pentanone
Concen: 0.742 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

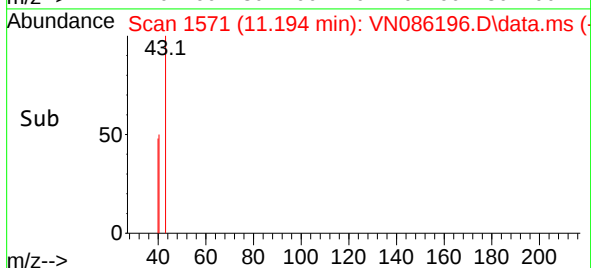
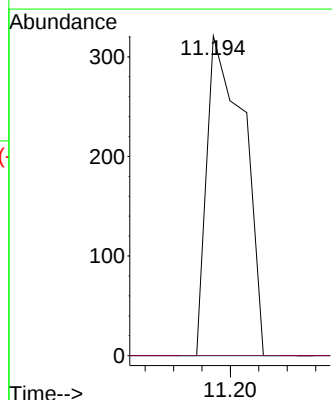
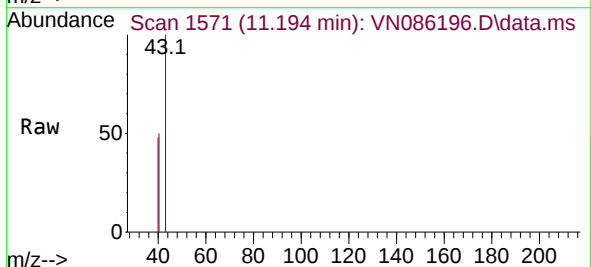
Instrument :
MSVOA_N
ClientSampleId :
3808

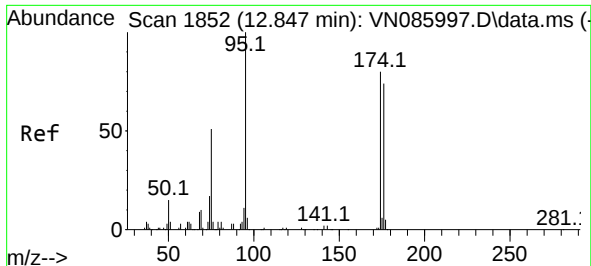
Tgt Ion: 43 Resp: 926
Ion Ratio Lower Upper
43 100
58 31.2 37.4 56.0#



#59
2-Hexanone
Concen: 0.319 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 43 Resp: 290
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#

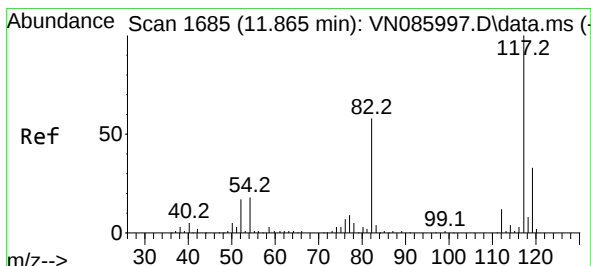
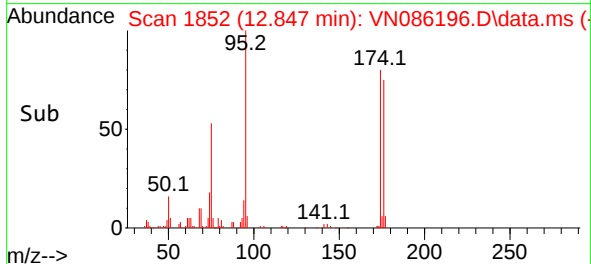
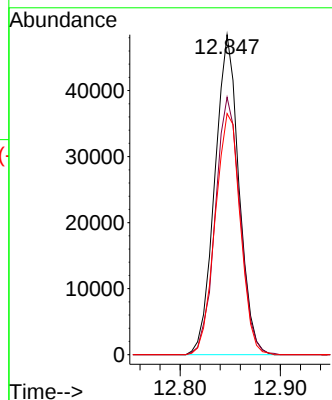
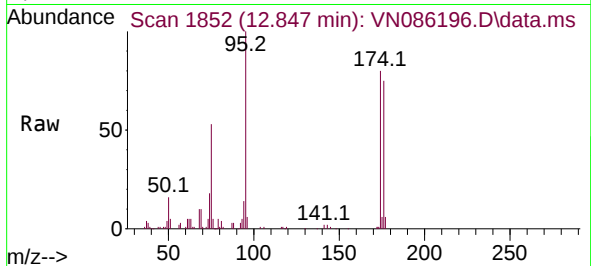




#62
4-Bromofluorobenzene
Concen: 53.343 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

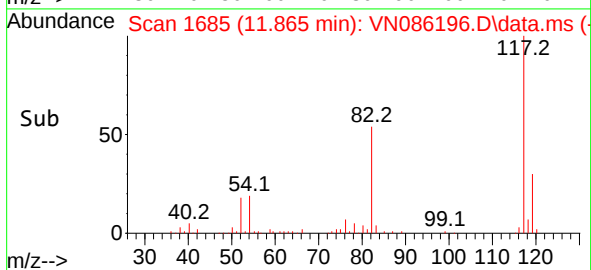
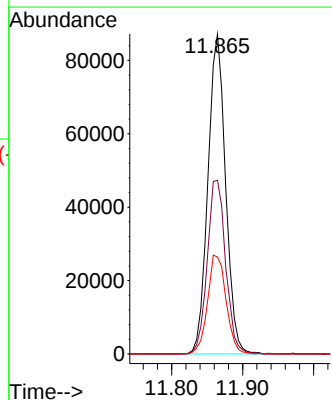
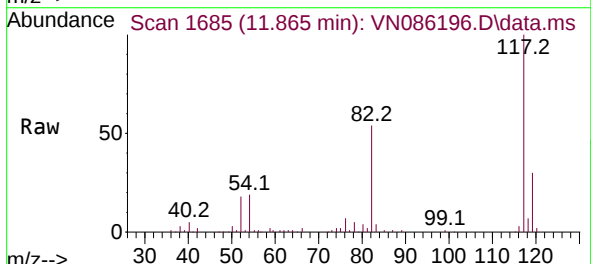
Instrument :
MSVOA_N
ClientSampleId :
3808

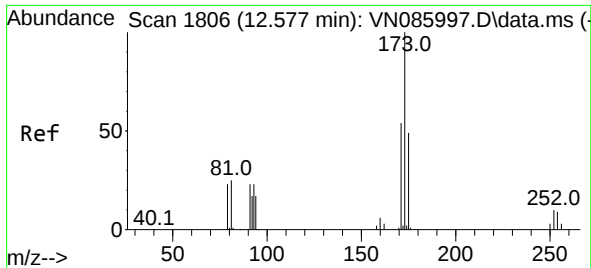
Tgt Ion: 95 Resp: 81193
Ion Ratio Lower Upper
95 100
174 82.5 0.0 156.8
176 78.2 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 117 Resp: 150741
Ion Ratio Lower Upper
117 100
82 54.3 46.7 70.1
119 30.3 26.5 39.7

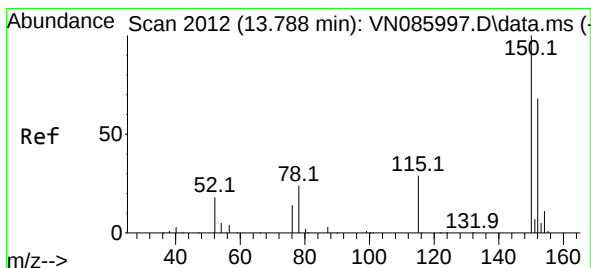
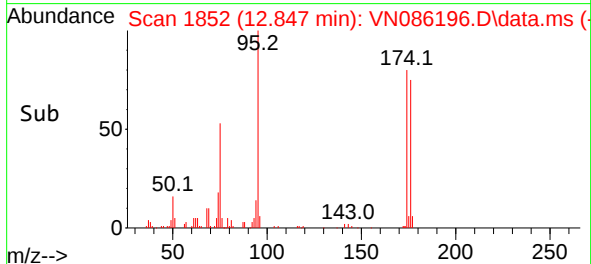
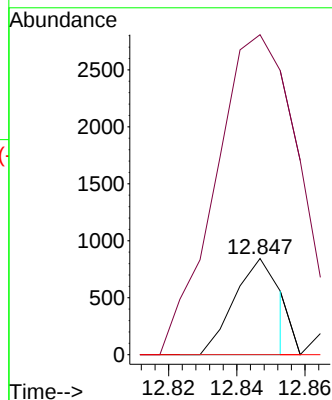
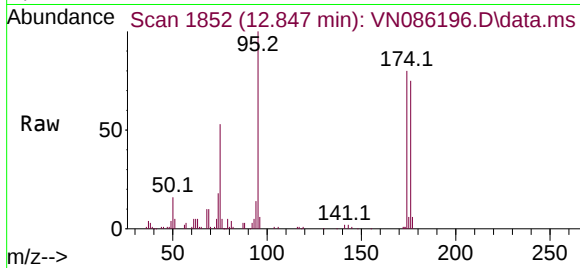




#71
Bromoform
Concen: 0.734 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.270 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

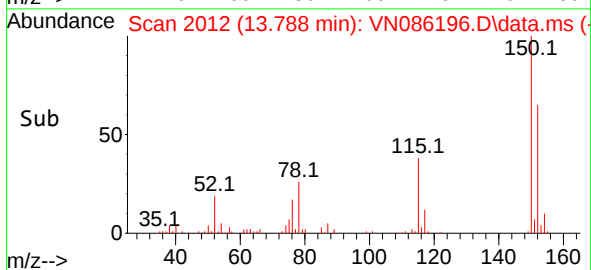
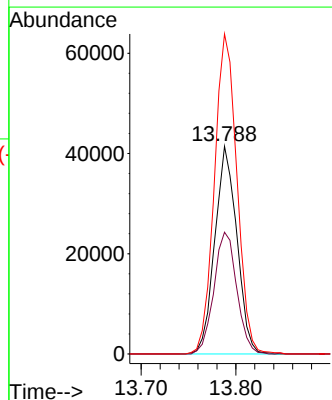
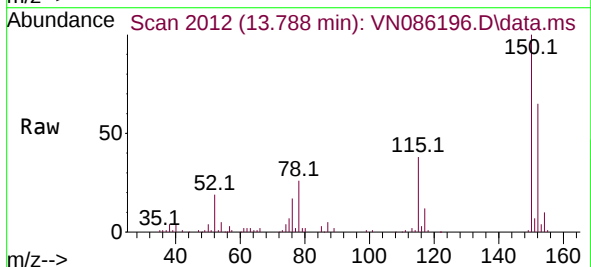
Instrument :
MSVOA_N
ClientSampleId :
3808

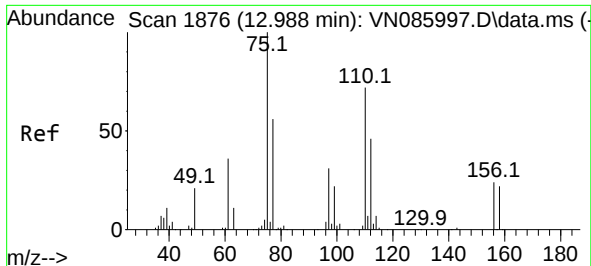
Tgt Ion:173 Resp: 787
Ion Ratio Lower Upper
173 100
175 494.5 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion:152 Resp: 67132
Ion Ratio Lower Upper
152 100
115 60.7 31.1 93.2
150 157.3 0.0 359.6

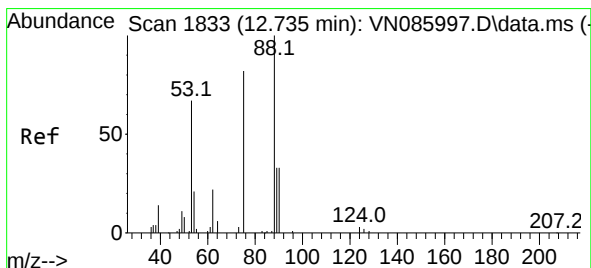
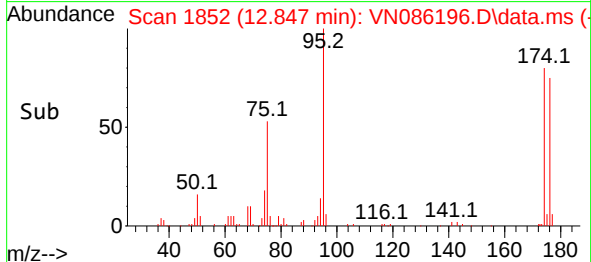
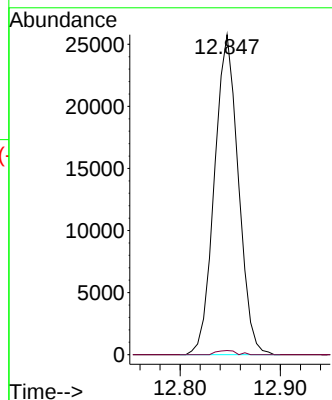
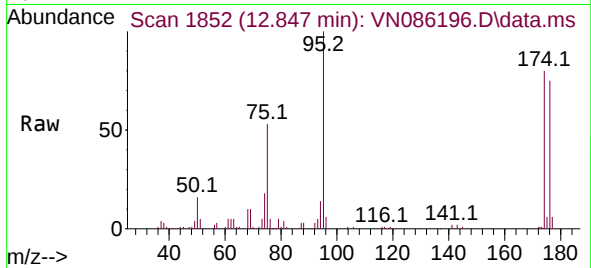




#76
1,2,3-Trichloropropane
Concen: 28.438 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

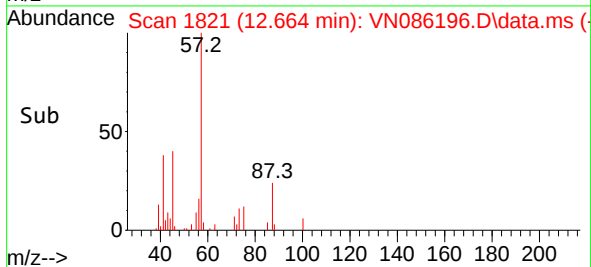
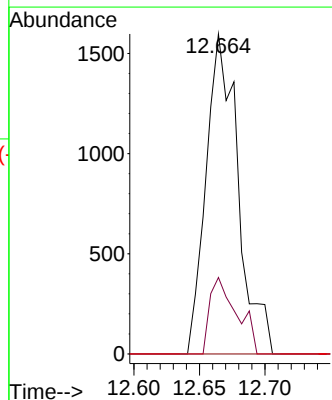
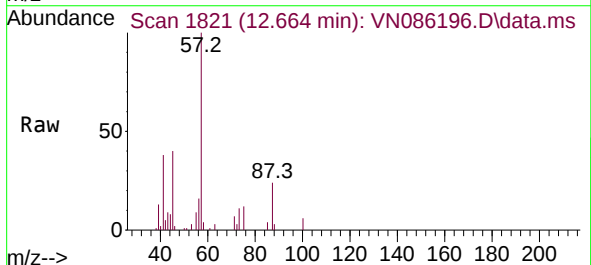
Instrument :
MSVOA_N
ClientSampleId :
3808

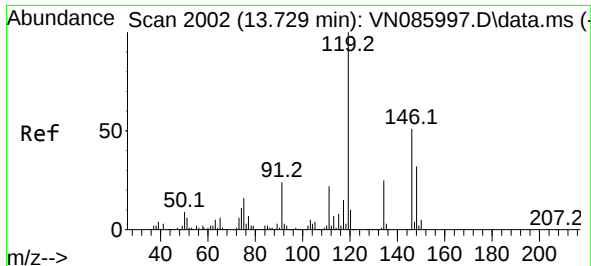
Tgt Ion: 75 Resp: 42741
Ion Ratio Lower Upper
75 100
77 1.1 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 4.774 ug/l
RT: 12.664 min Scan# 1821
Delta R.T. -0.071 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 75 Resp: 2714
Ion Ratio Lower Upper
75 100
53 20.2 66.0 99.0#
89 0.0 36.9 55.3#

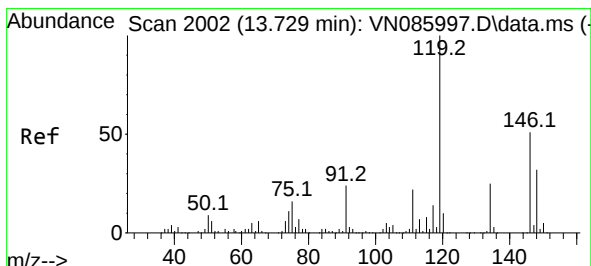
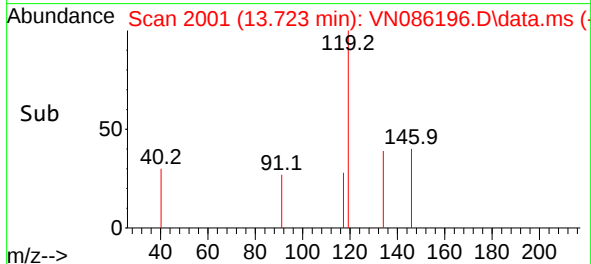
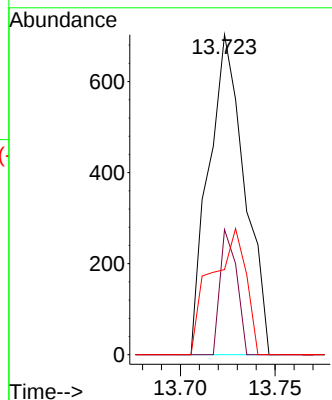
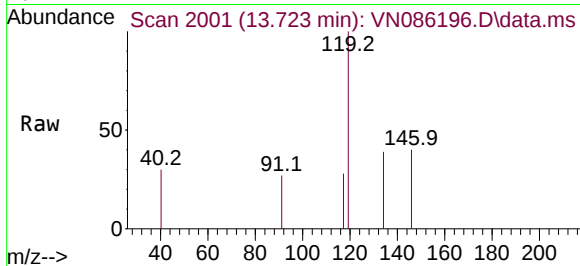




#86
 p-Isopropyltoluene
 Concen: 0.253 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN086196.D
 Acq: 01 Apr 2025 15:13

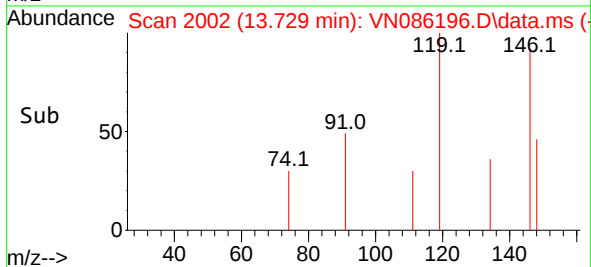
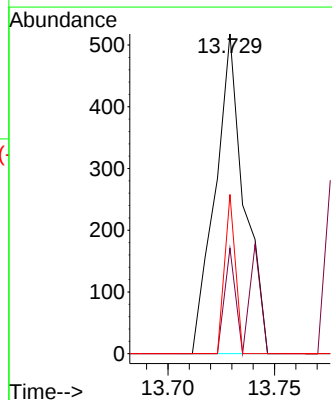
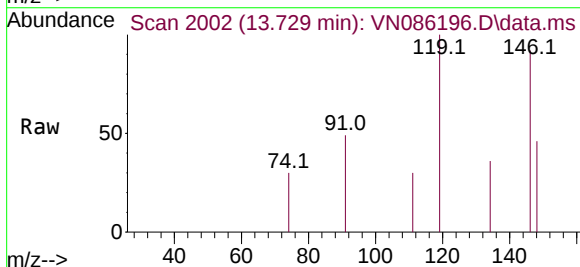
Instrument :
 MSVOA_N
 ClientSampleId :
 3808

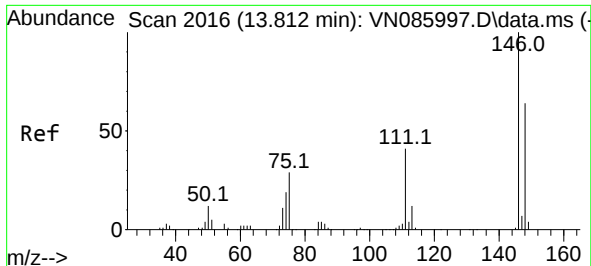
Tgt Ion:	119	Resp:	924
Ion	Ratio	Lower	Upper
119	100		
134	18.2	12.6	37.8
91	38.0	12.3	36.8#



#87
 1,3-Dichlorobenzene
 Concen: 0.212 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086196.D
 Acq: 01 Apr 2025 15:13

Tgt Ion:	146	Resp:	488
Ion	Ratio	Lower	Upper
146	100		
111	25.2	21.2	63.6
148	18.6	31.8	95.4#

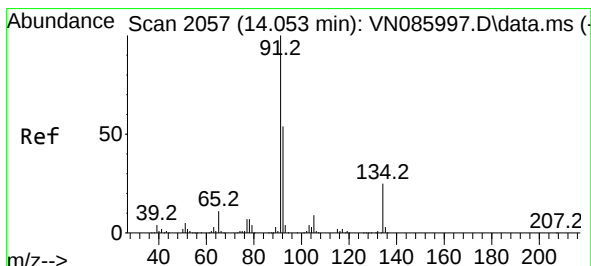
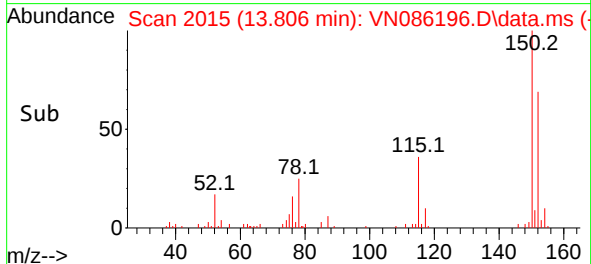
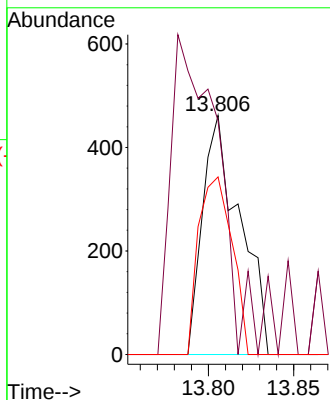
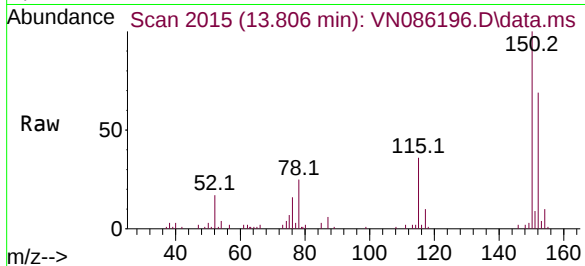




#88
1,4-Dichlorobenzene
Concen: 0.290 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

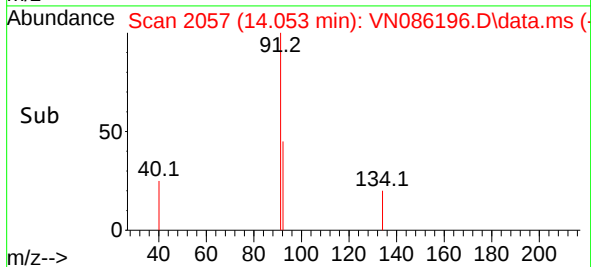
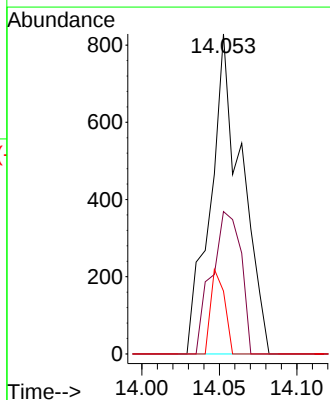
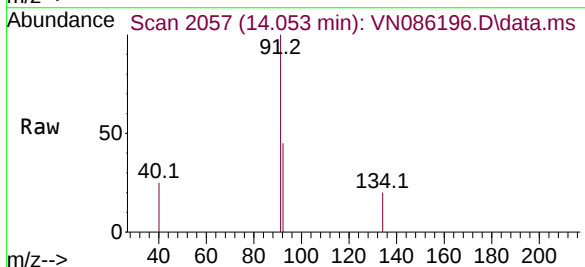
Instrument :
MSVOA_N
ClientSampleId :
3808

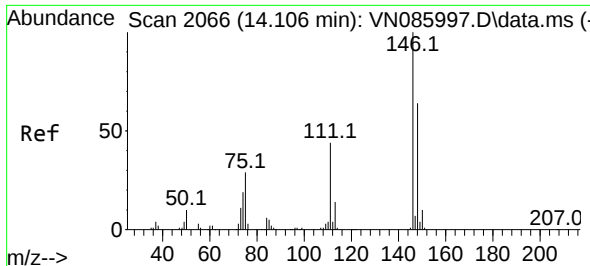
Tgt Ion:146 Resp: 701
Ion Ratio Lower Upper
146 100
111 0.0 20.4 61.3#
148 66.9 32.1 96.5



#89
n-Butylbenzene
Concen: 0.390 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

Tgt Ion: 91 Resp: 1161
Ion Ratio Lower Upper
91 100
92 41.7 26.9 80.6
134 11.6 13.0 39.0#

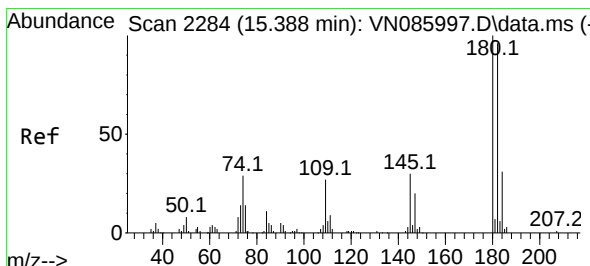
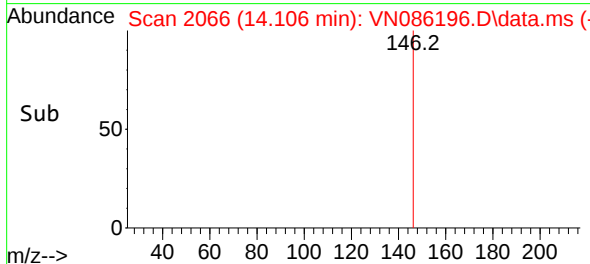
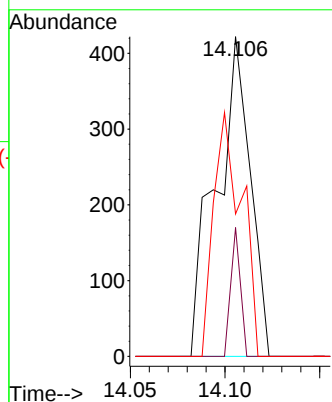
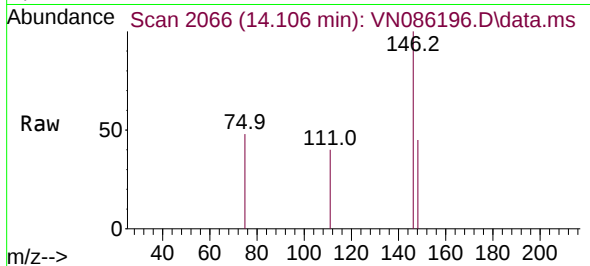




#91
1,2-Dichlorobenzene
Concen: 0.232 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

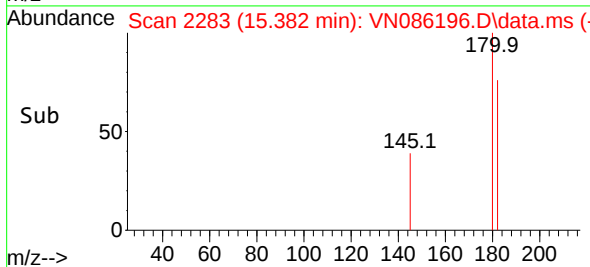
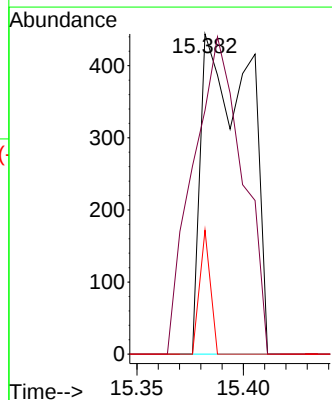
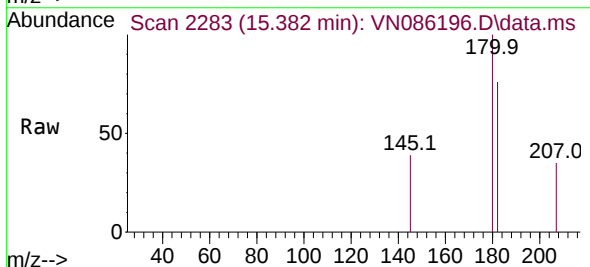
Instrument :
MSVOA_N
ClientSampleId :
3808

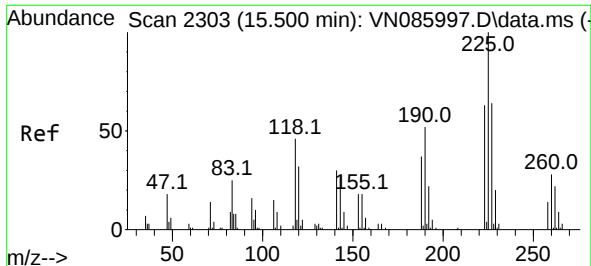
Tgt Ion:146 Resp: 531
Ion Ratio Lower Upper
146 100
111 11.3 22.3 66.8#
148 62.3 32.1 96.5



#93
1,2,4-Trichlorobenzene
Concen: 0.597 ug/l
RT: 15.382 min Scan# 2283
Delta R.T. -0.006 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

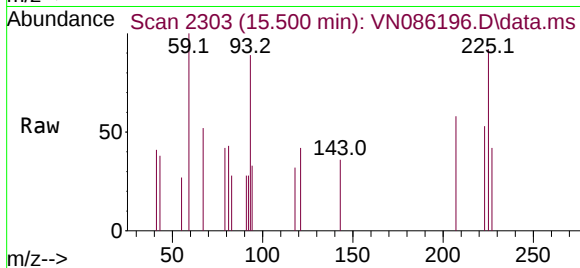
Tgt Ion:180 Resp: 688
Ion Ratio Lower Upper
180 100
182 103.6 47.0 141.0
145 8.9 15.5 46.5#



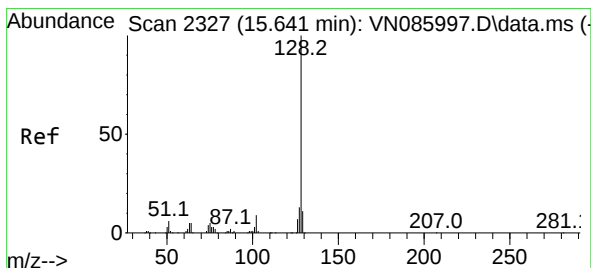
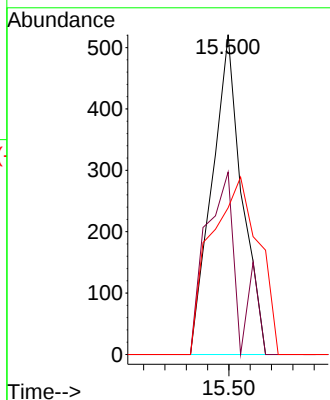
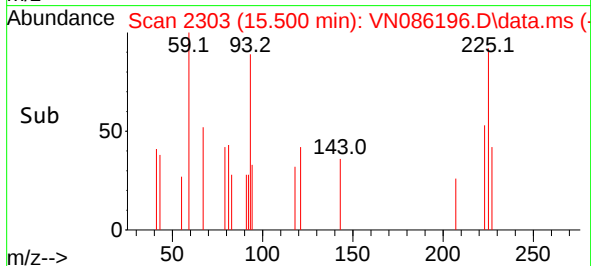


#94
Hexachlorobutadiene
Concen: 0.757 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13

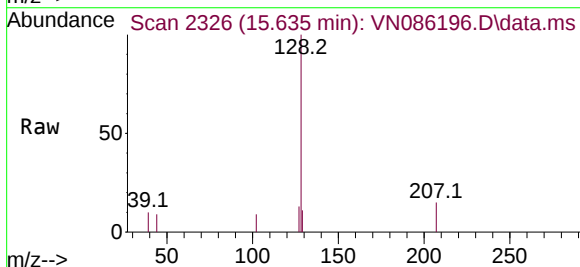
Instrument :
MSVOA_N
ClientSampleId :
3808



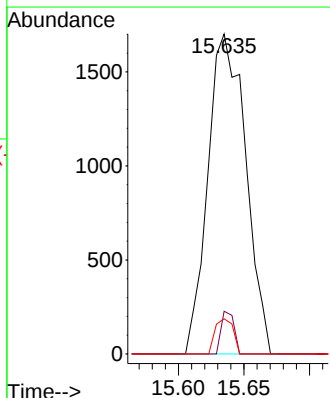
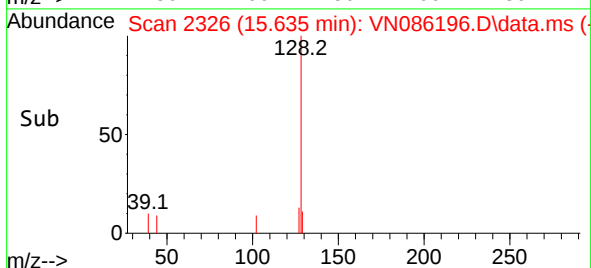
Tgt Ion:	225	Resp:	506
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.3	93.9
227	88.9	32.1	96.3

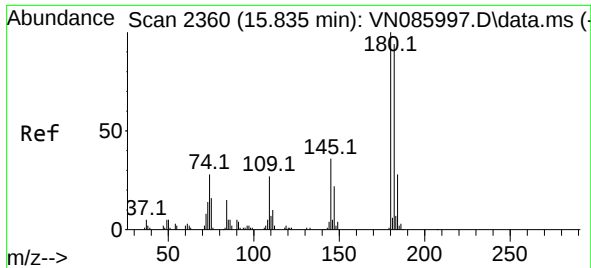


#95
Naphthalene
Concen: 1.023 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086196.D
Acq: 01 Apr 2025 15:13



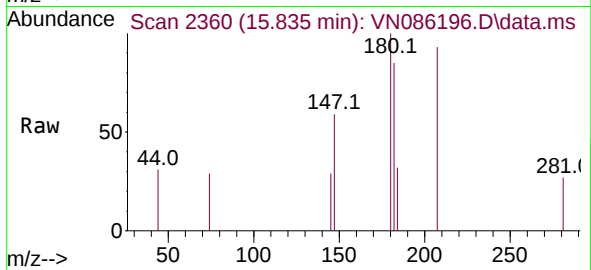
Tgt Ion:	128	Resp:	3411
Ion Ratio	Lower	Upper	
128	100		
127	4.5	10.2	15.4#
129	5.2	9.0	13.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.794 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086196.D
 Acq: 01 Apr 2025 15:13

Instrument :
 MSVOA_N
 ClientSampleId :
 3808



Tgt Ion:	180	Resp:	868
Ion	Ratio	Lower	Upper
180	100		
182	89.9	47.5	142.5
145	20.0	17.7	53.1

