

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032025\
 Data File : VN086032.D
 Acq On : 20 Mar 2025 18:21
 Operator : JC\MD
 Sample : Q1606-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 N48965

Quant Time: Mar 21 01:24:35 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)

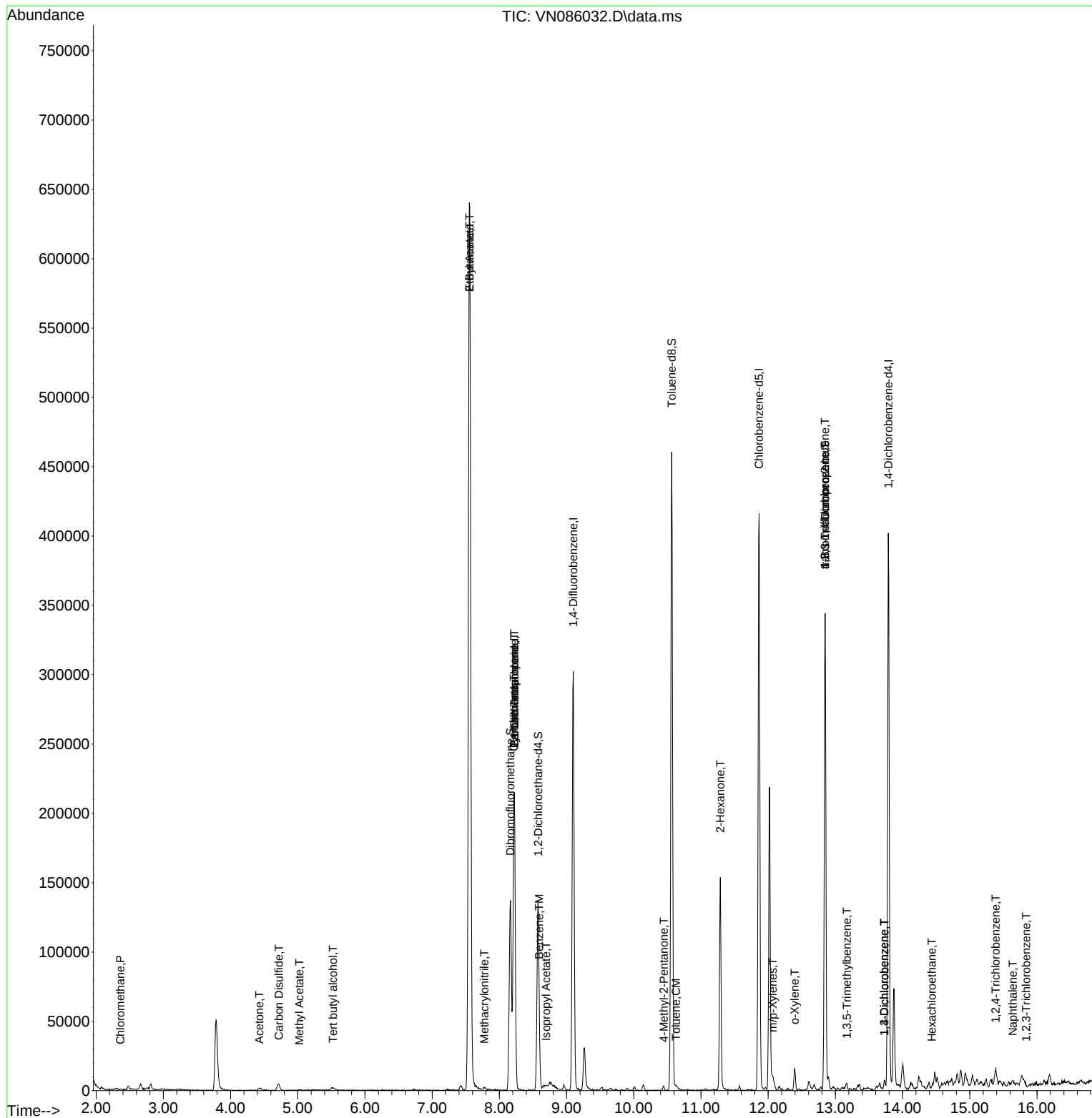
Internal Standards						
1) Pentafluorobenzene	8.224	168	159682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112204	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	113670	51.985	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.980%			
35) Dibromofluoromethane	8.165	113	98503	53.469	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.940%			
50) Toluene-d8	10.565	98	329082	49.219	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.440%			
62) 4-Bromofluorobenzene	12.847	95	120750	50.640	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.280%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	467	0.252	ug/l #	42
11) Tert butyl alcohol	5.524	59	3766	12.165	ug/l #	73
16) Acetone	4.430	43	3687	5.519	ug/l #	87
17) Carbon Disulfide	4.718	76	2409	0.448	ug/l #	74
18) Methyl Acetate	5.024	43	792	0.479	ug/l #	45
25) 2-Butanone	7.559	43	902256	936.030	ug/l #	41
31) Cyclohexane	8.218	56	3205	1.176	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12608	5.197	ug/l #	51
37) Ethyl Acetate	7.559	43	902256	440.879	ug/l	99
38) Carbon Tetrachloride	8.224	117	16177	5.072	ug/l #	17
40) Benzene	8.594	78	3669	0.482	ug/l	91
41) Methacrylonitrile	7.777	41	361	0.369	ug/l #	15
43) Isopropyl Acetate	8.694	43	4528	1.021	ug/l #	50
51) 4-Methyl-2-Pentanone	10.447	43	1993	1.019	ug/l	92
52) Toluene	10.629	92	1088	0.233	ug/l	90
59) 2-Hexanone	11.288	43	94908	66.613	ug/l #	20
68) m/p-Xylenes	12.070	106	2873	0.786	ug/l	97
69) o-Xylene	12.394	106	4428	1.320	ug/l	98
76) 1,2,3-Trichloropropane	12.847	75	61532	24.495	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	1917	0.296	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	61532	64.760	ug/l #	16
87) 1,3-Dichlorobenzene	13.729	146	2942	0.764	ug/l	99
88) 1,4-Dichlorobenzene	13.729	146	2942	0.727	ug/l	99
90) Hexachloroethane	14.435	117	589	0.418	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.388	180	2059	1.070	ug/l	94
95) Naphthalene	15.641	128	1850	0.332	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.841	180	517	0.283	ug/l #	62

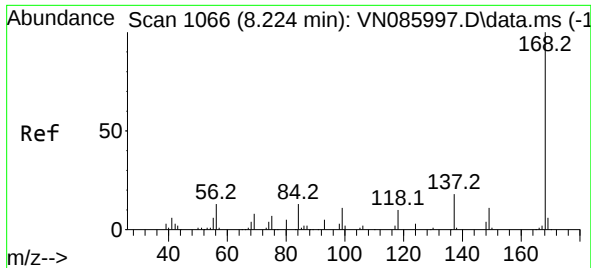
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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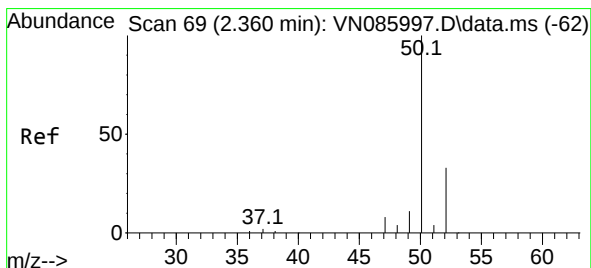
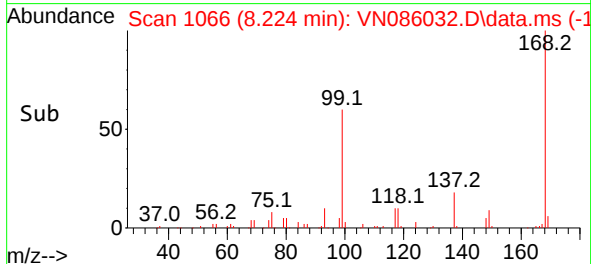
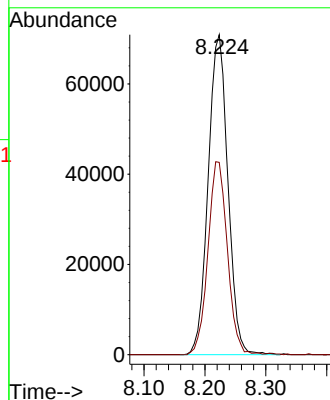
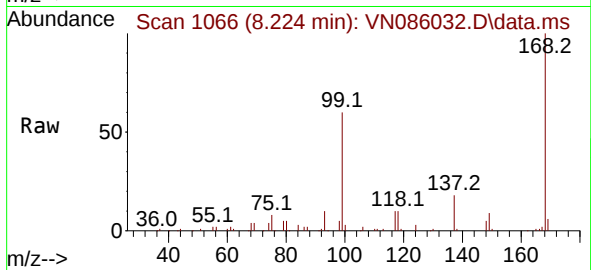




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

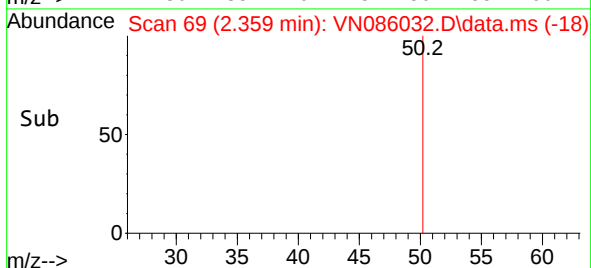
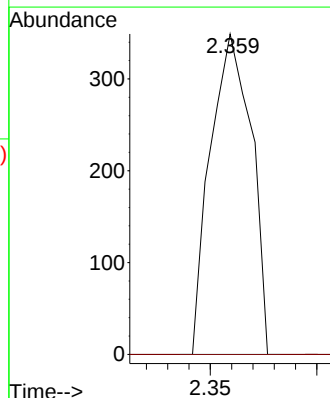
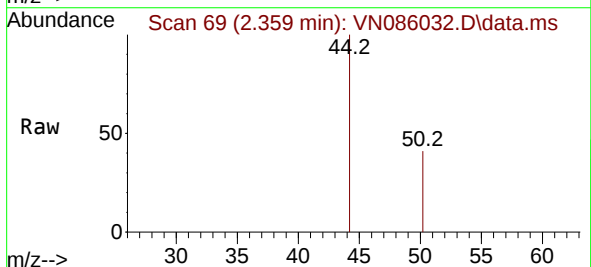
Instrument :
MSVOA_N
ClientSampleId :
N48965

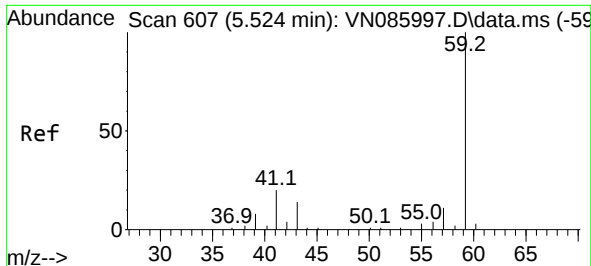
Tgt Ion:168 Resp: 159682
Ion Ratio Lower Upper
168 100
99 60.1 49.4 74.2



#3
Chloromethane
Concen: 0.252 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 50 Resp: 467
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

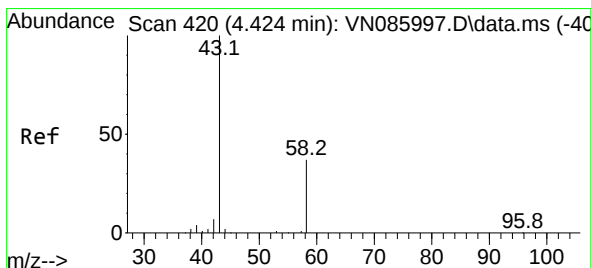
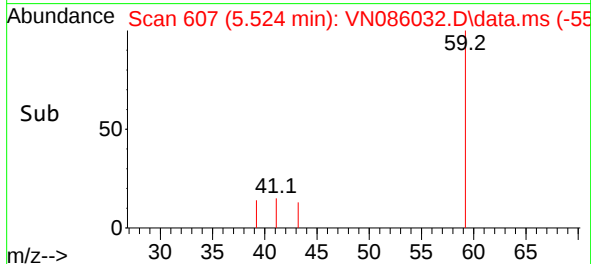
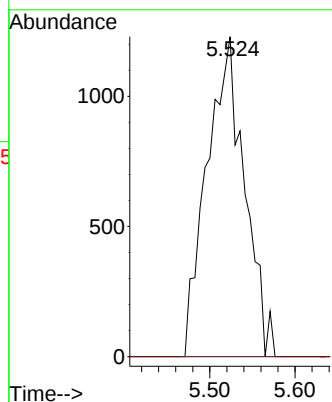
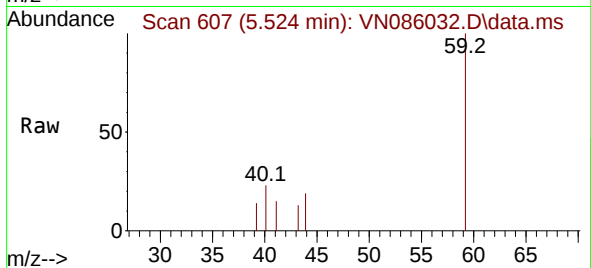




#11
Tert butyl alcohol
Concen: 12.165 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

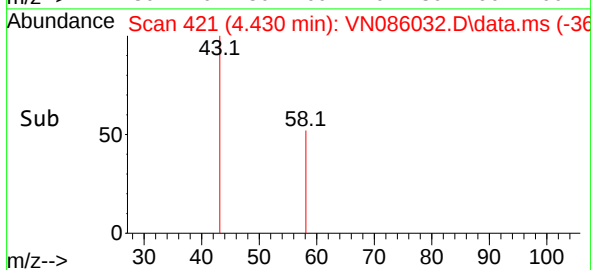
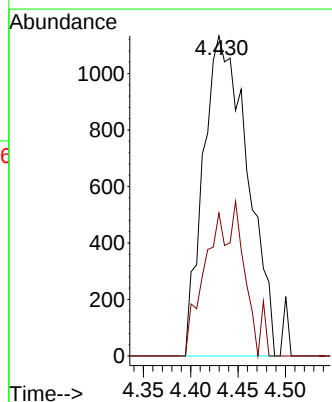
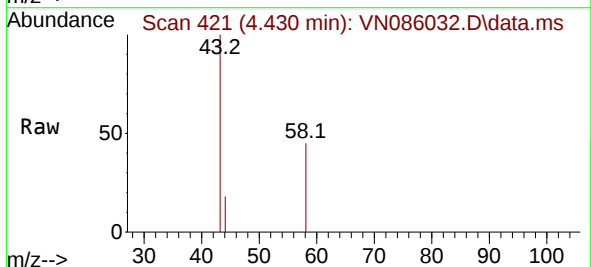
Instrument :
MSVOA_N
ClientSampleId :
N48965

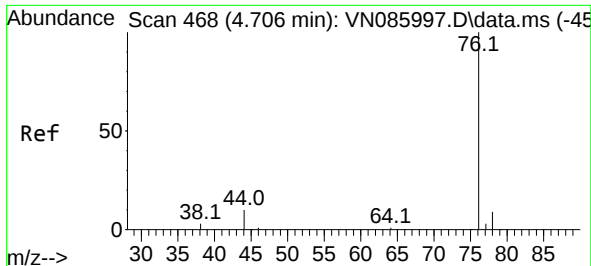
Tgt Ion: 59 Resp: 3766
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 5.519 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 43 Resp: 3687
Ion Ratio Lower Upper
43 100
58 44.7 29.4 44.2#

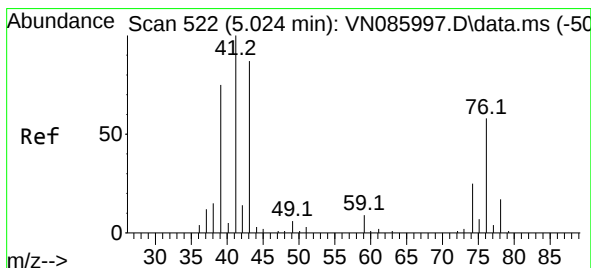
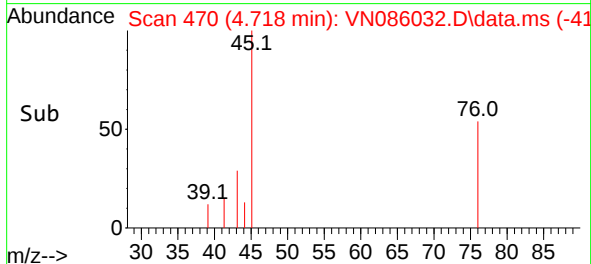
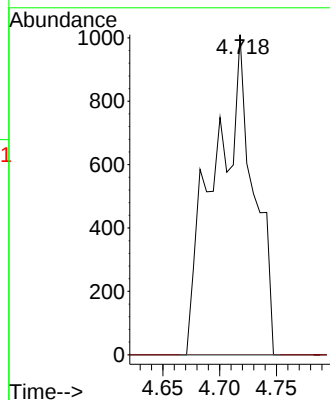
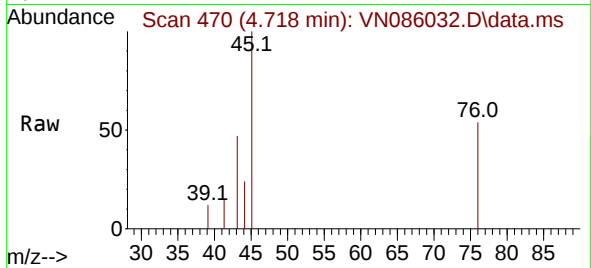




#17
Carbon Disulfide
Concen: 0.448 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

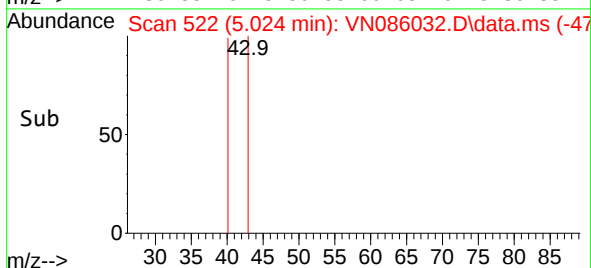
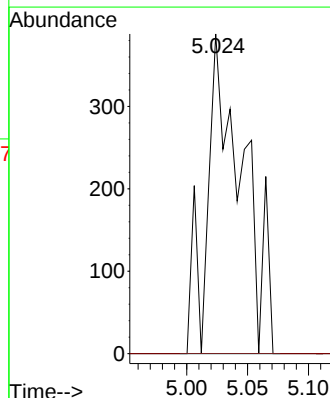
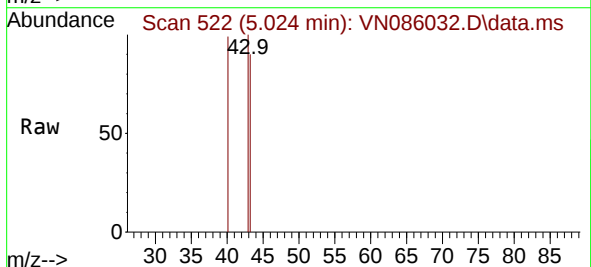
Instrument :
MSVOA_N
ClientSampleId :
N48965

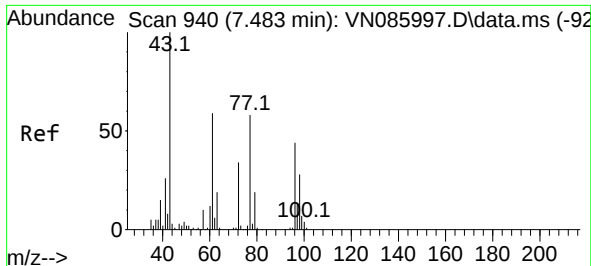
Tgt Ion: 76 Resp: 2409
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 43 Resp: 792
Ion Ratio Lower Upper
43 100
74 0.0 23.9 35.9#

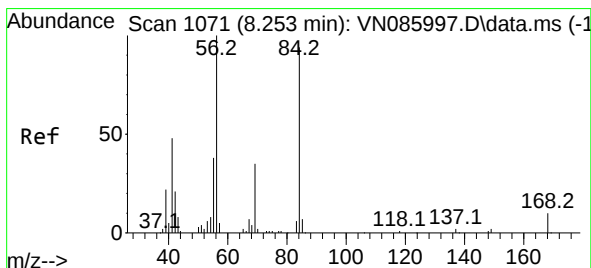
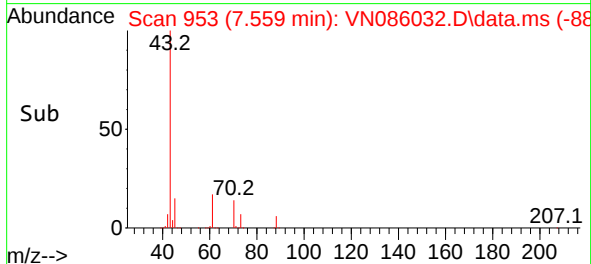
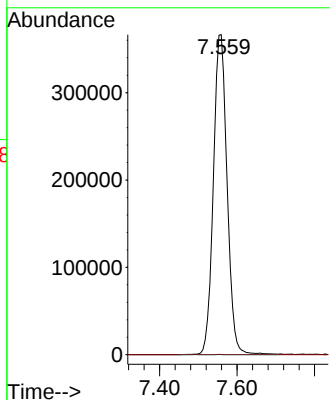
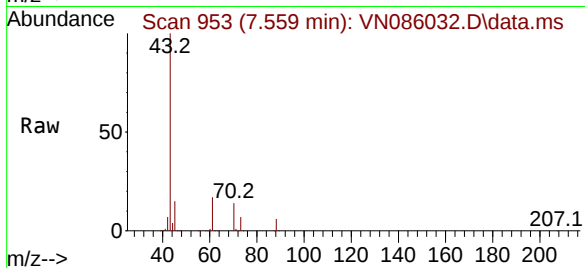




#25
2-Butanone
Concen: 936.030 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.076 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

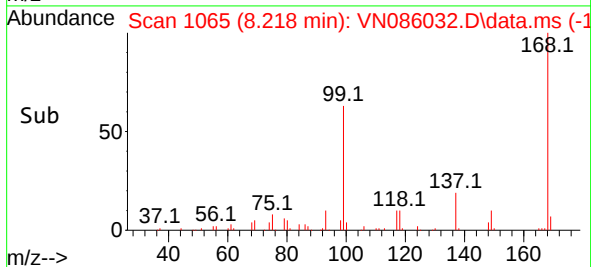
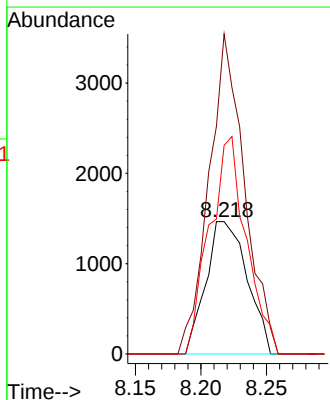
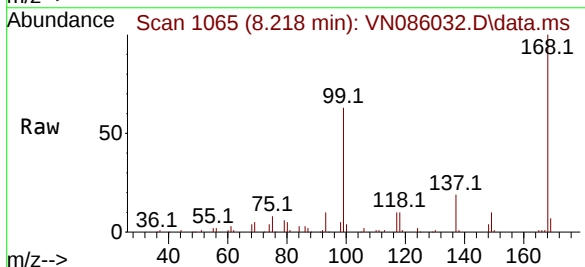
Instrument :
MSVOA_N
ClientSampleId :
N48965

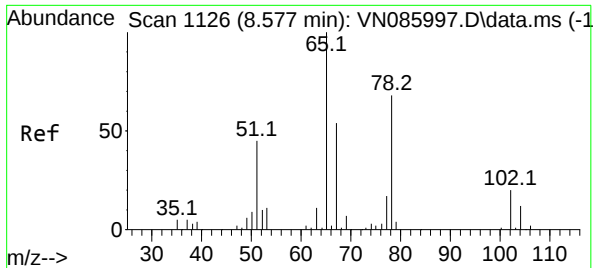
Tgt Ion: 43 Resp: 902256
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#



#31
Cyclohexane
Concen: 1.176 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 56 Resp: 3205
Ion Ratio Lower Upper
56 100
69 241.7 28.0 42.0#
84 157.6 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 51.985 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086032.D

Acq: 20 Mar 2025 18:21

Instrument :

MSVOA_N

ClientSampleId :

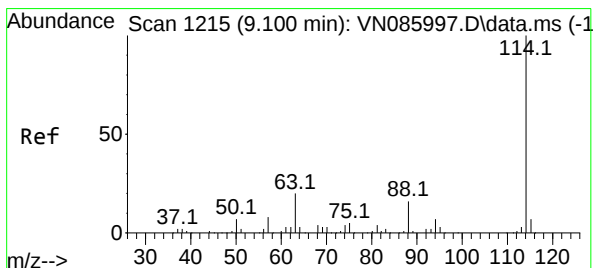
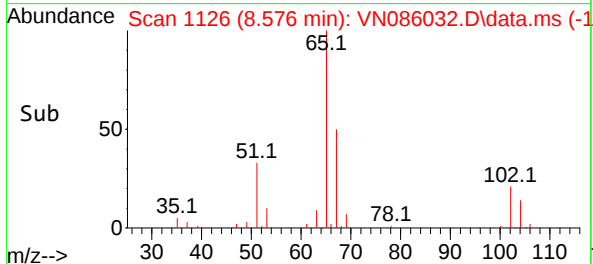
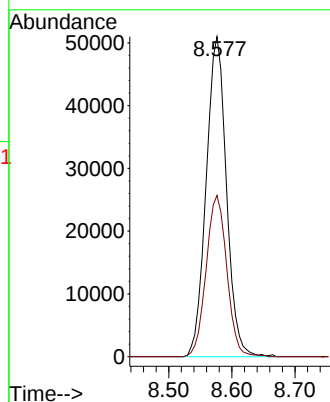
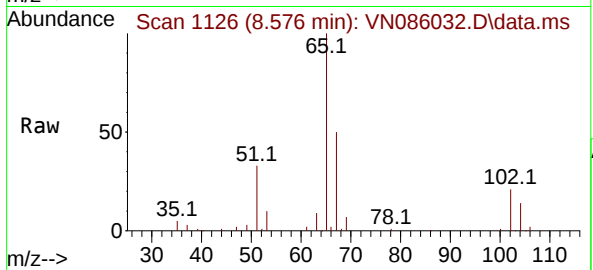
N48965

Tgt Ion: 65 Resp: 113670

Ion Ratio Lower Upper

65 100

67 51.3 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086032.D

Acq: 20 Mar 2025 18:21

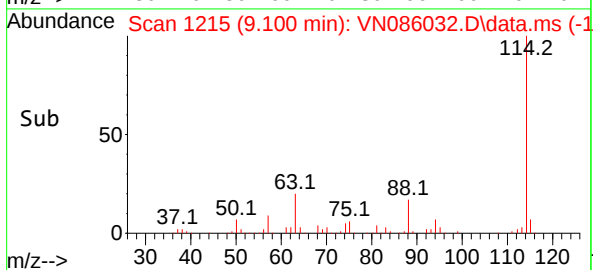
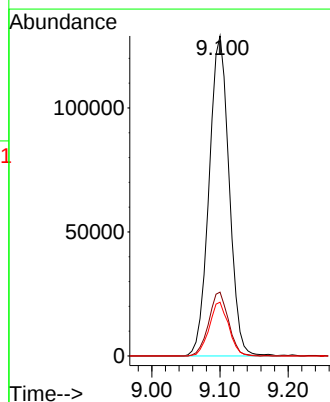
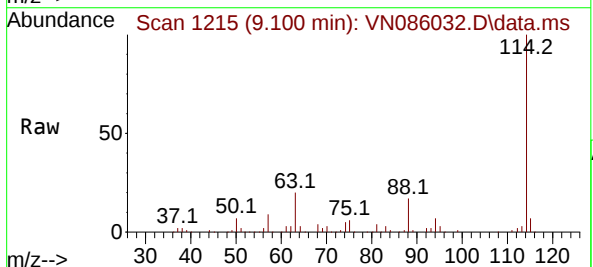
Tgt Ion: 114 Resp: 263937

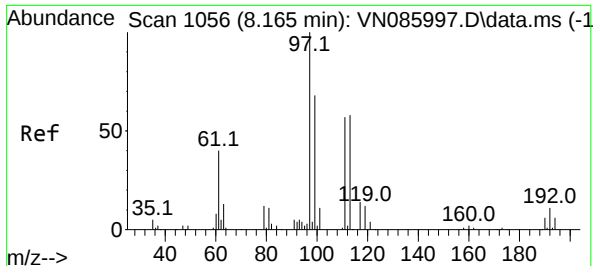
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.469 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086032.D

Acq: 20 Mar 2025 18:21

Instrument :

MSVOA_N

ClientSampleId :

N48965

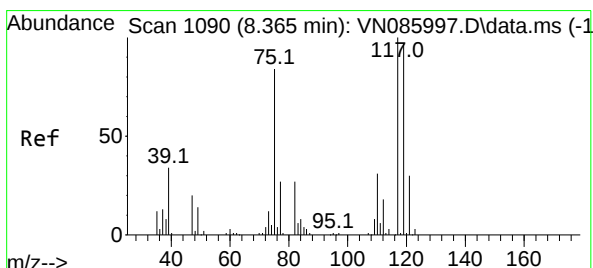
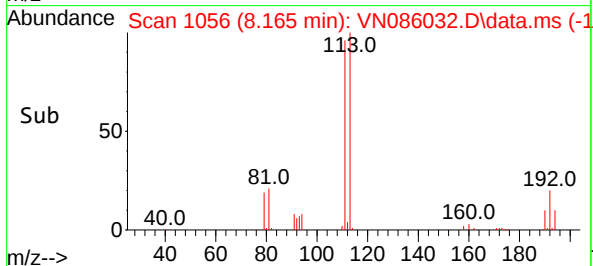
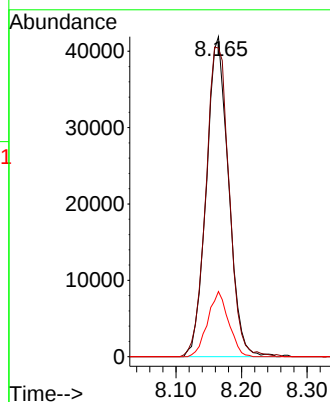
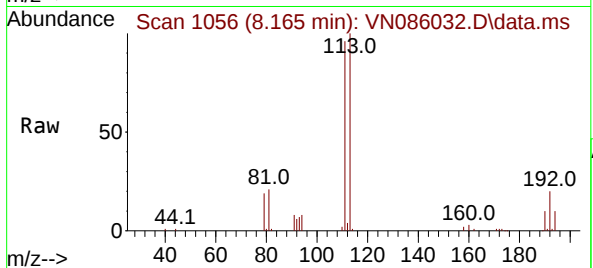
Tgt Ion:113 Resp: 98503

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

192 19.2 15.9 23.9



#36

1,1-Dichloropropene

Concen: 5.197 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086032.D

Acq: 20 Mar 2025 18:21

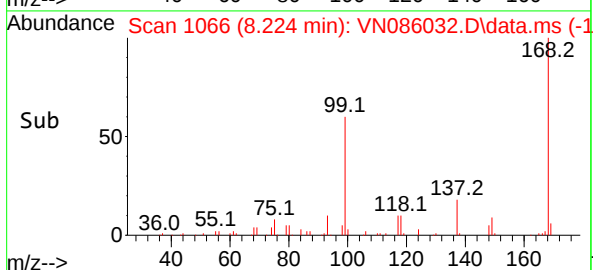
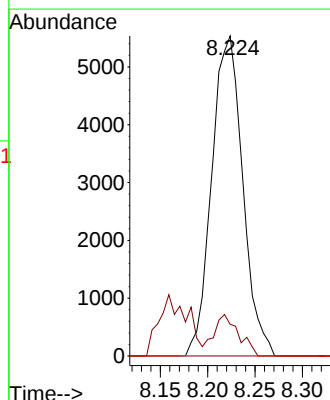
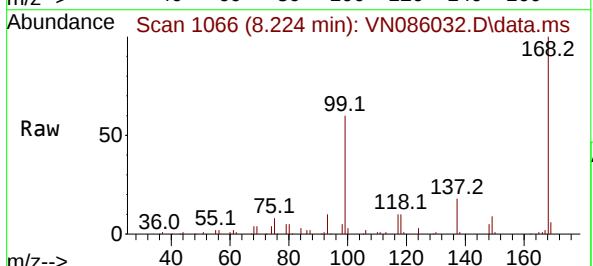
Tgt Ion: 75 Resp: 12608

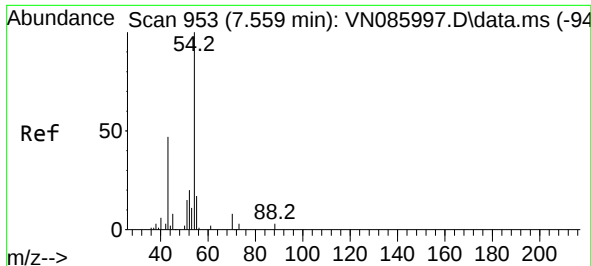
Ion Ratio Lower Upper

75 100

110 10.4 17.8 53.3#

77 0.0 25.0 37.4#

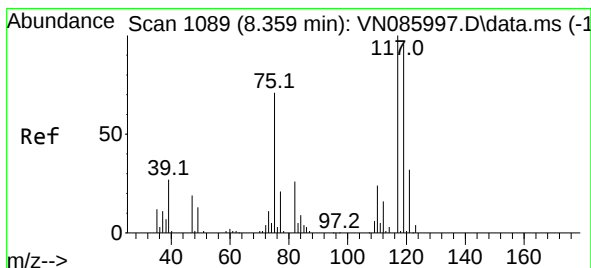
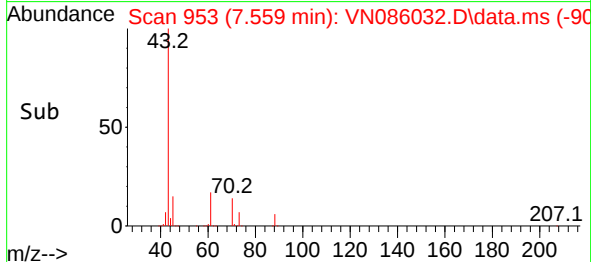
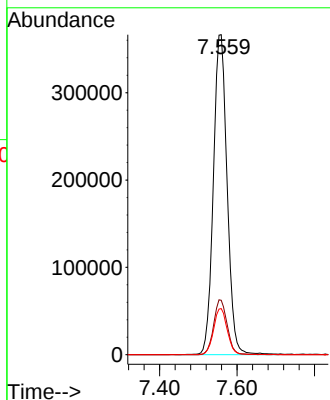
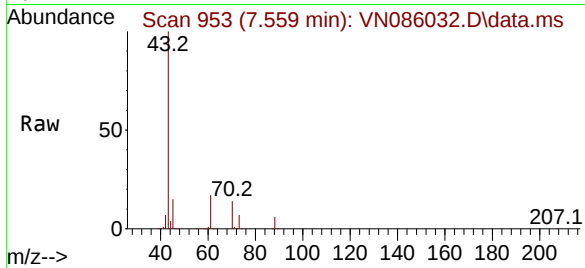




#37
Ethyl Acetate
Concen: 440.879 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

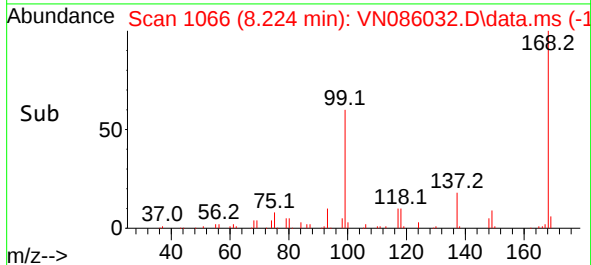
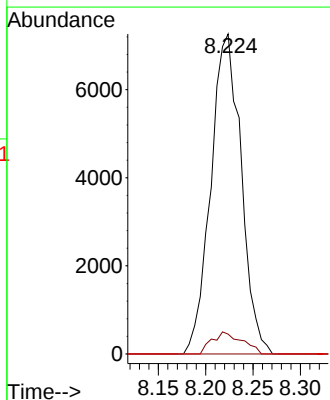
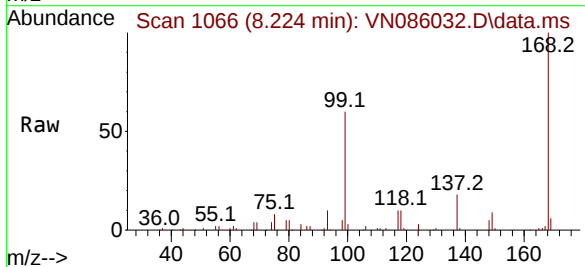
Instrument :
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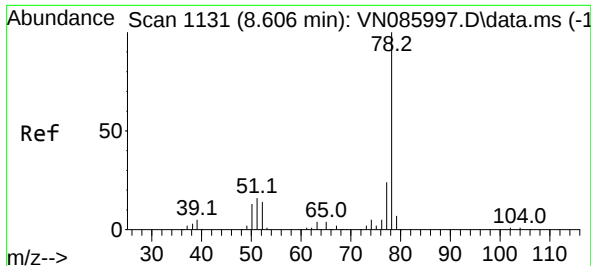
Tgt Ion: 43 Resp: 902256
Ion Ratio Lower Upper
43 100
61 16.9 13.0 19.4
70 14.3 11.0 16.6



#38
Carbon Tetrachloride
Concen: 5.072 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.136 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 117 Resp: 16177
Ion Ratio Lower Upper
117 100
119 6.2 77.0 115.4#
121 0.0 25.6 38.4#

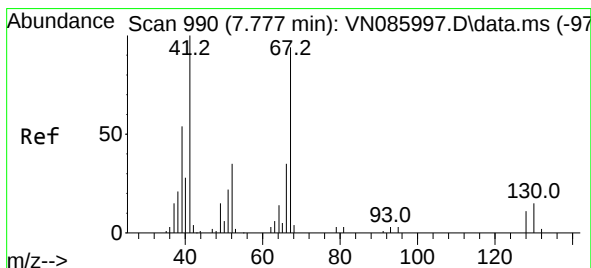
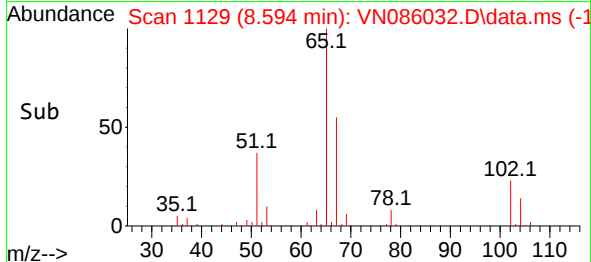
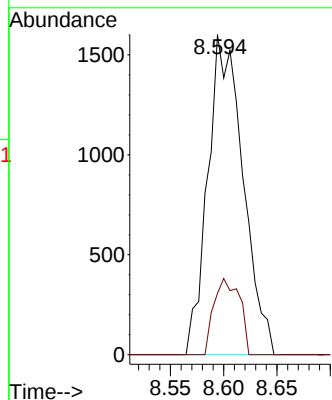
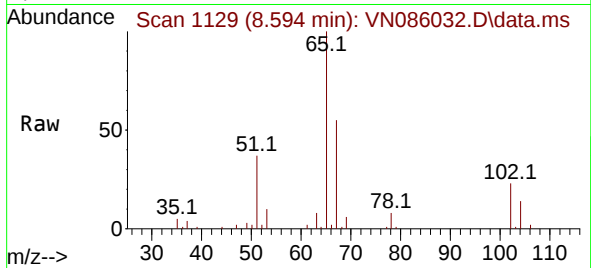




#40
Benzene
Concen: 0.482 ug/l
RT: 8.594 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

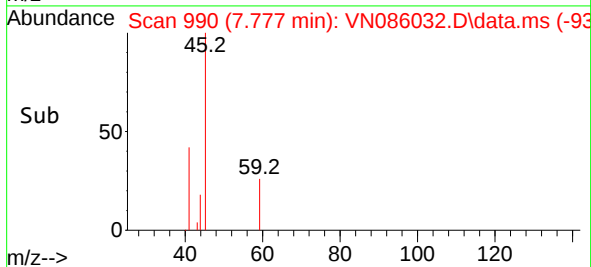
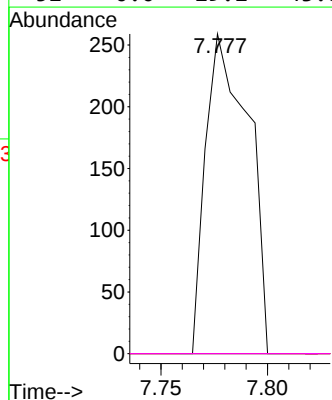
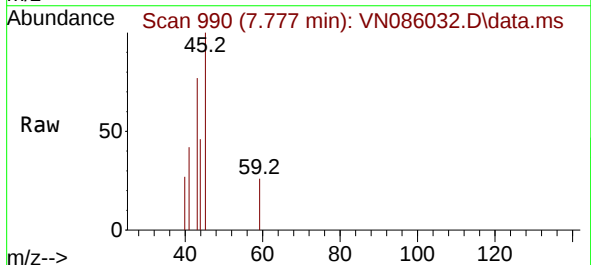
Instrument :
MSVOA_N
ClientSampleId :
N48965

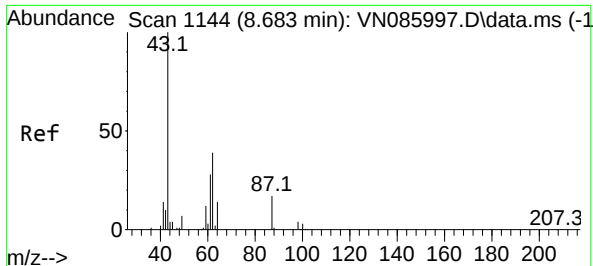
Tgt Ion: 78 Resp: 3669
Ion Ratio Lower Upper
78 100
77 19.2 18.9 28.3



#41
Methacrylonitrile
Concen: 0.369 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 41 Resp: 361
Ion Ratio Lower Upper
41 100
39 0.0 46.2 69.2#
67 0.0 75.9 113.9#
52 0.0 29.2 43.8#





#43

Isopropyl Acetate

Concen: 1.021 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.011 min

Lab File: VN086032.D

Acq: 20 Mar 2025 18:21

Instrument :

MSVOA_N

ClientSampleId :

N48965

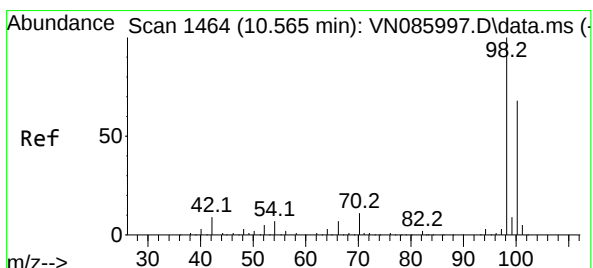
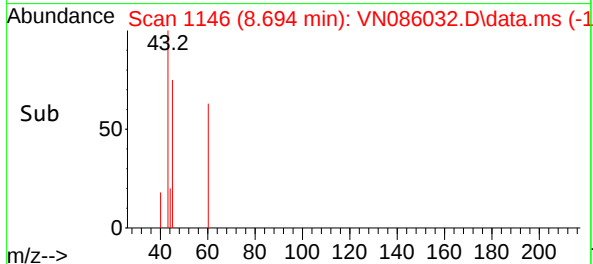
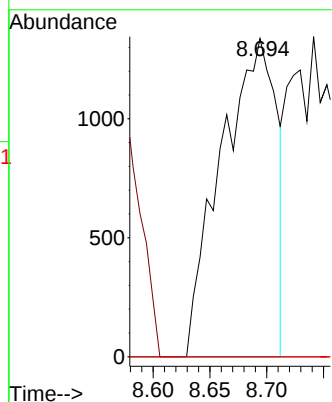
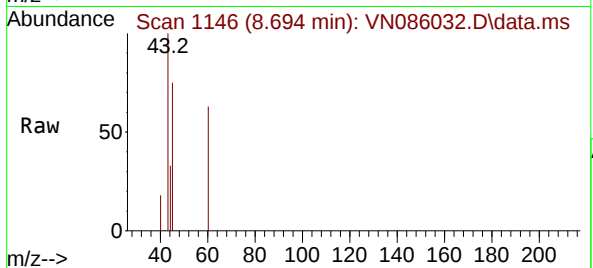
Tgt Ion: 43 Resp: 4528

Ion Ratio Lower Upper

43 100

61 0.0 25.0 37.6#

87 0.0 13.0 19.4#



#50

Toluene-d8

Concen: 49.219 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086032.D

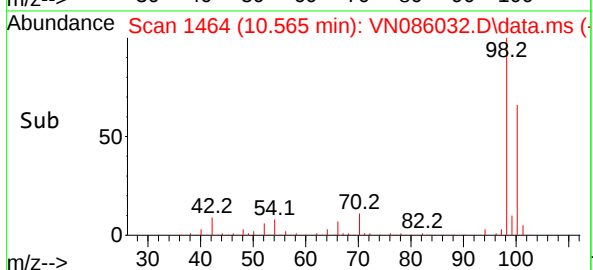
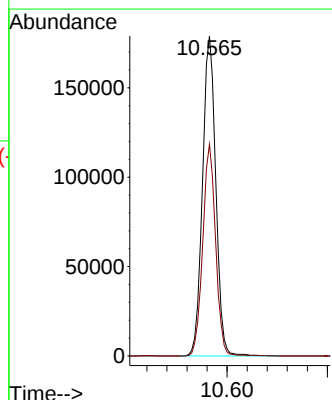
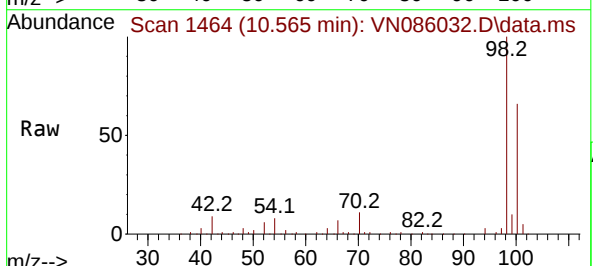
Acq: 20 Mar 2025 18:21

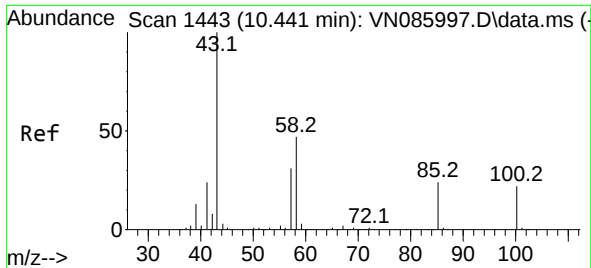
Tgt Ion: 98 Resp: 329082

Ion Ratio Lower Upper

98 100

100 64.1 53.1 79.7

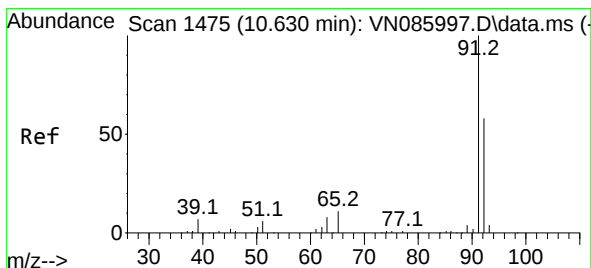
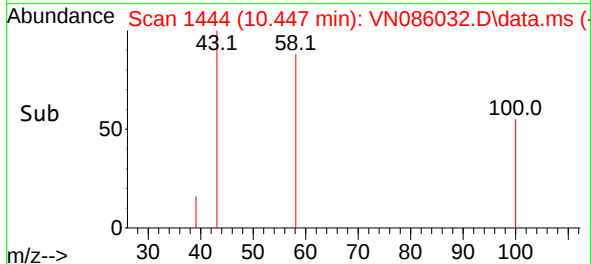
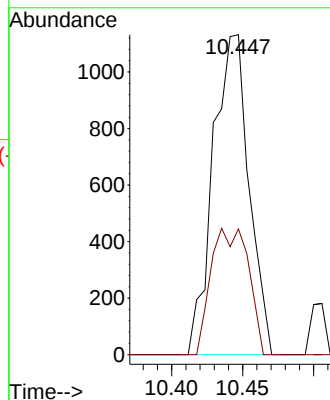
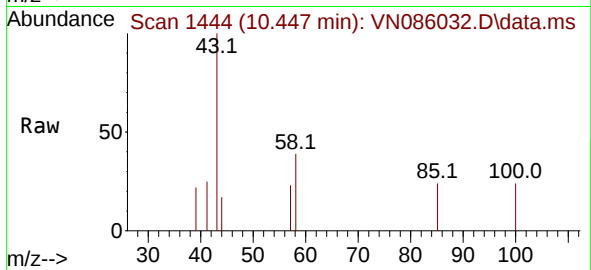




#51
4-Methyl-2-Pentanone
Concen: 1.019 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

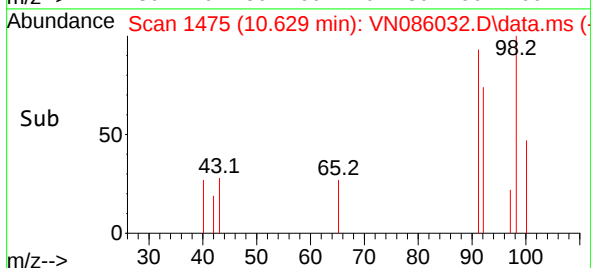
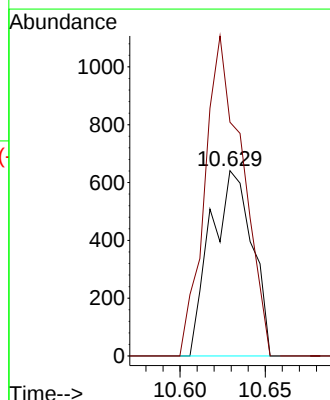
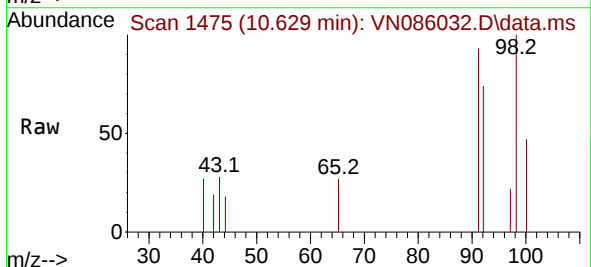
Instrument :
MSVOA_N
ClientSampleId :
N48965

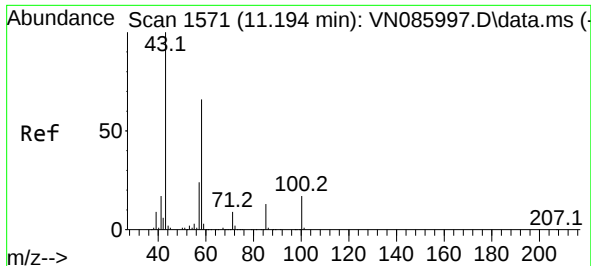
Tgt Ion: 43 Resp: 1993
Ion Ratio Lower Upper
43 100
58 41.3 37.4 56.0



#52
Toluene
Concen: 0.233 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 92 Resp: 1088
Ion Ratio Lower Upper
92 100
91 156.1 136.2 204.4

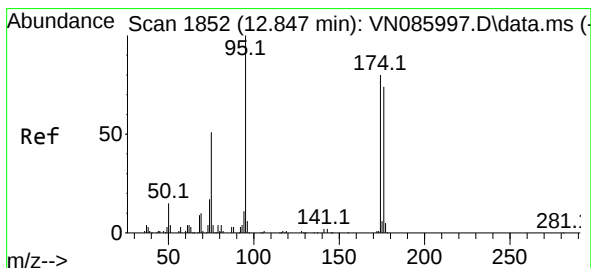
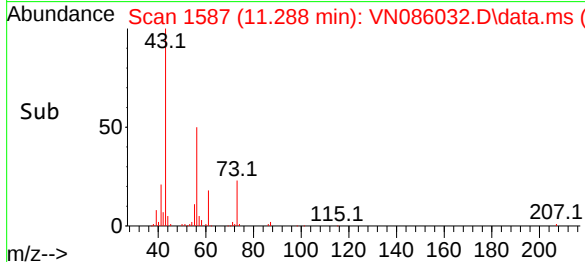
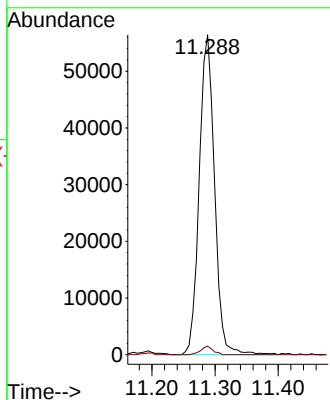
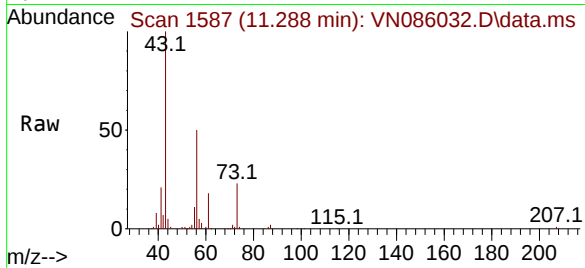




#59
2-Hexanone
Concen: 66.613 ug/l
RT: 11.288 min Scan# 1587
Delta R.T. 0.094 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

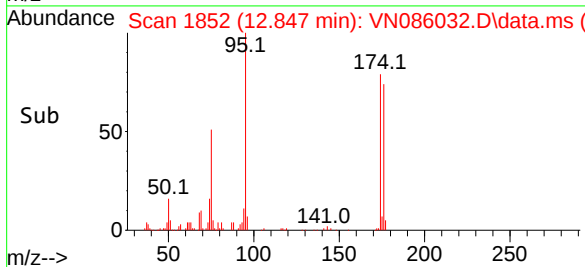
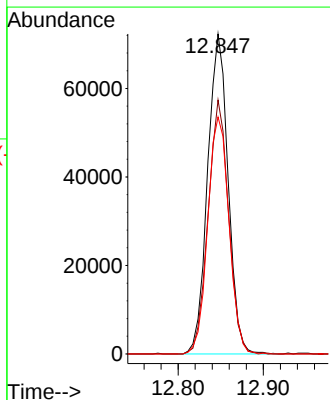
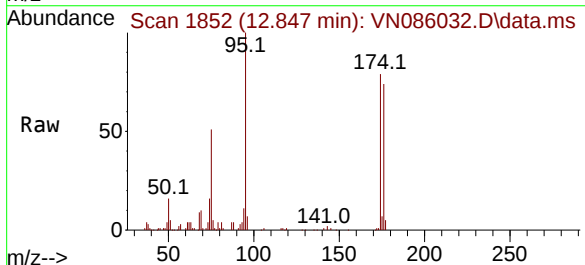
Instrument :
MSVOA_N
ClientSampleId :
N48965

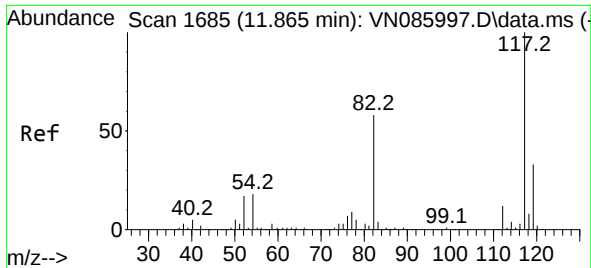
Tgt Ion: 43 Resp: 94908
Ion Ratio Lower Upper
43 100
58 2.1 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 50.640 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion: 95 Resp: 120750
Ion Ratio Lower Upper
95 100
174 79.4 0.0 156.8
176 76.6 0.0 152.2

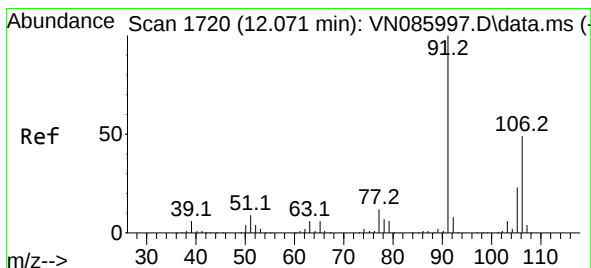
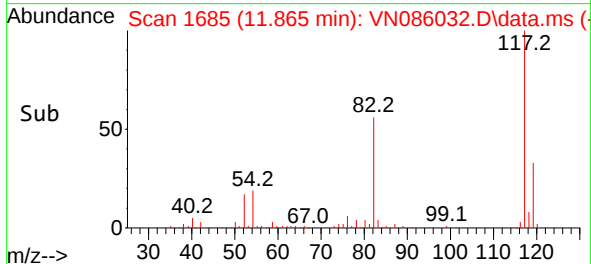
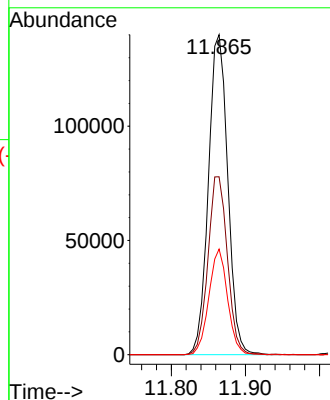
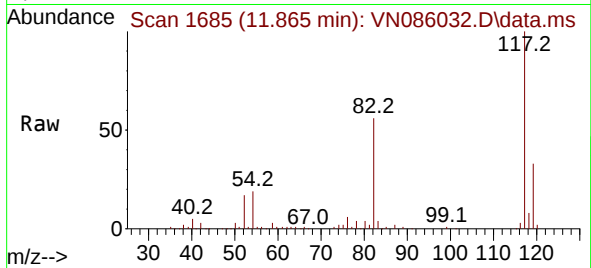




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

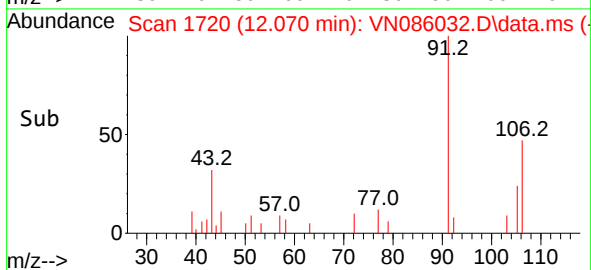
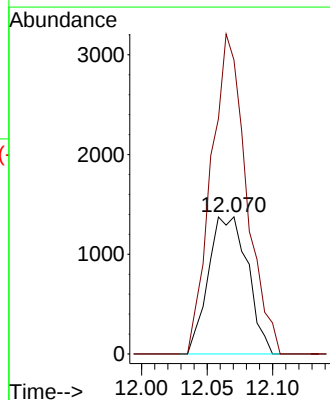
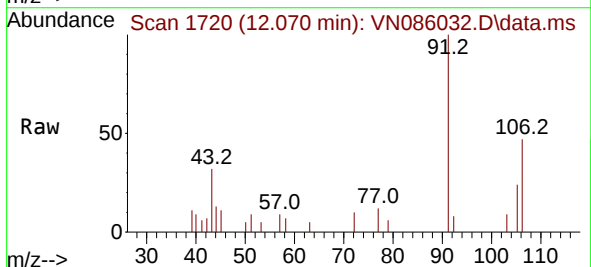
Instrument :
MSVOA_N
ClientSampleId :
N48965

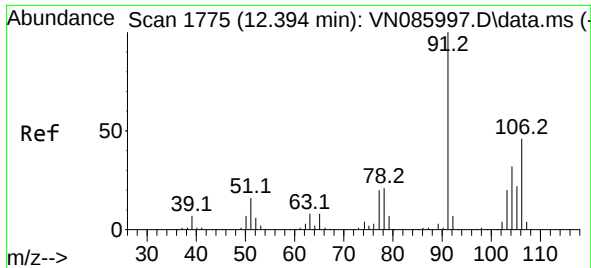
Tgt Ion:117 Resp: 253998
Ion Ratio Lower Upper
117 100
82 55.6 46.7 70.1
119 33.0 26.5 39.7



#68
m/p-Xylenes
Concen: 0.786 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion:106 Resp: 2873
Ion Ratio Lower Upper
106 100
91 209.0 163.9 245.9

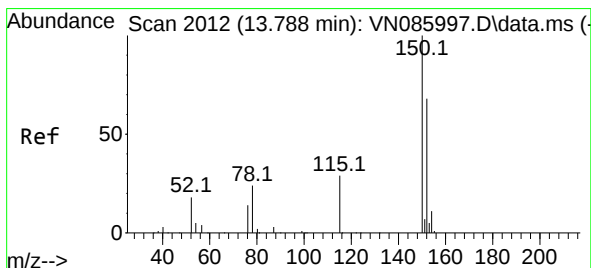
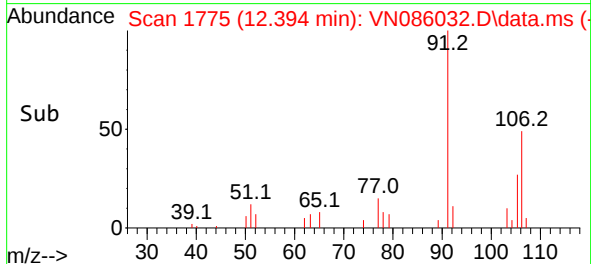
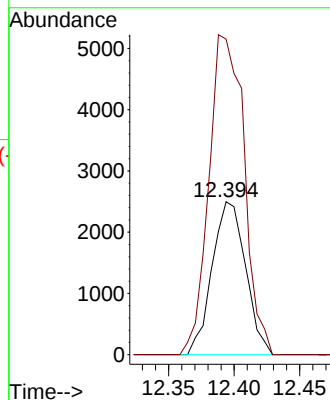
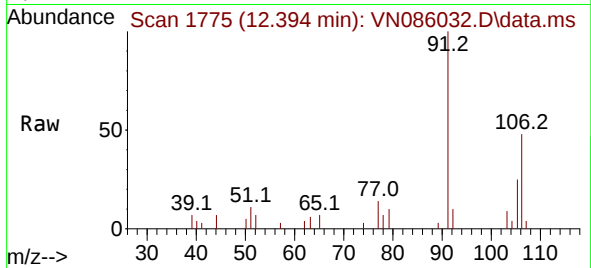




#69
o-Xylene
Concen: 1.320 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

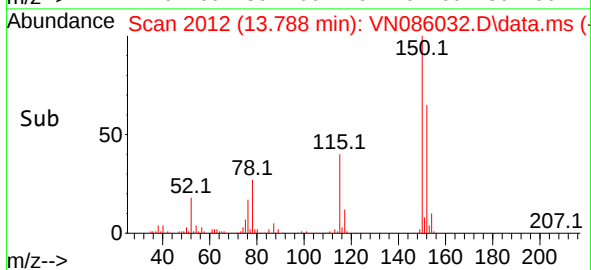
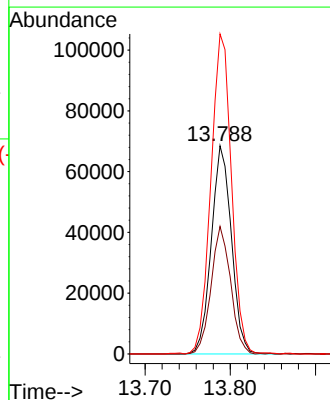
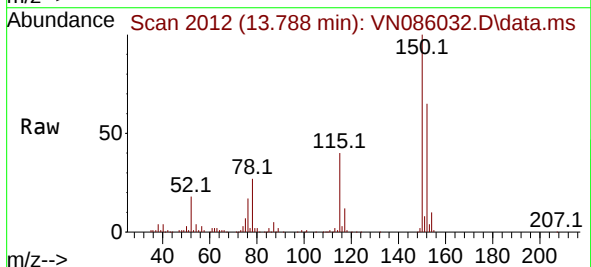
Instrument :
MSVOA_N
ClientSampleId :
N48965

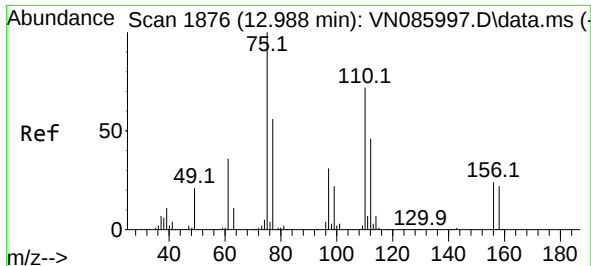
Tgt Ion:106 Resp: 4428
Ion Ratio Lower Upper
106 100
91 220.5 109.1 327.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

Tgt Ion:152 Resp: 112204
Ion Ratio Lower Upper
152 100
115 59.5 31.1 93.2
150 157.1 0.0 359.6

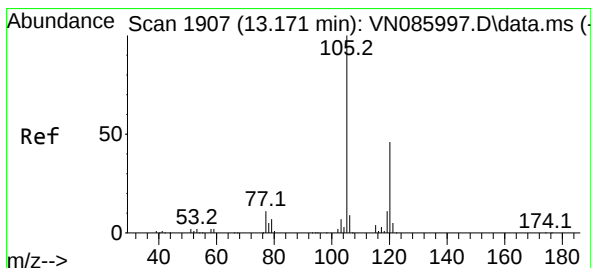
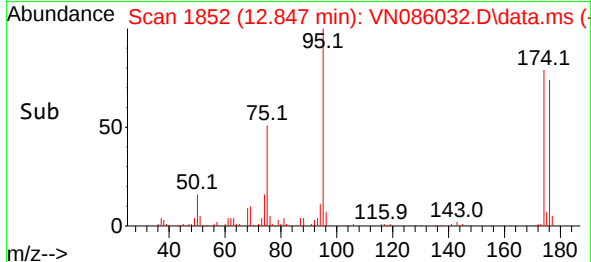
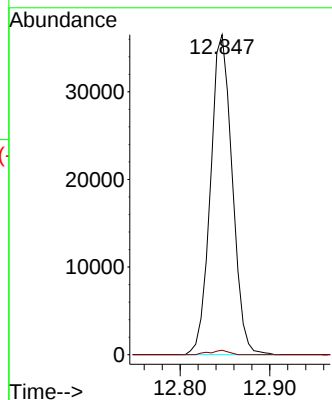
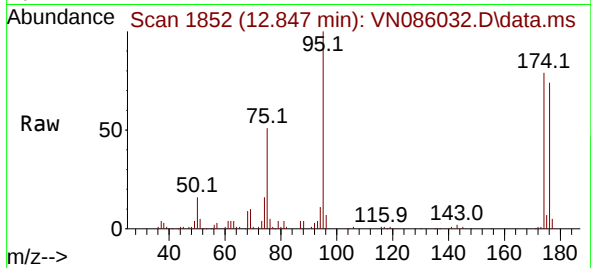




#76
 1,2,3-Trichloropropane
 Concen: 24.495 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. -0.141 min
 Lab File: VN086032.D
 Acq: 20 Mar 2025 18:21

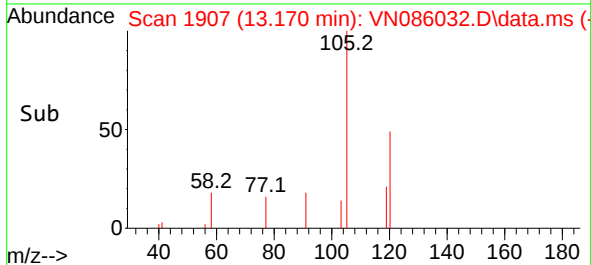
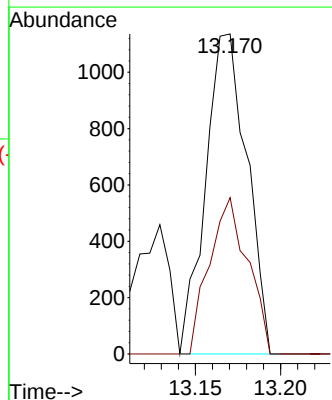
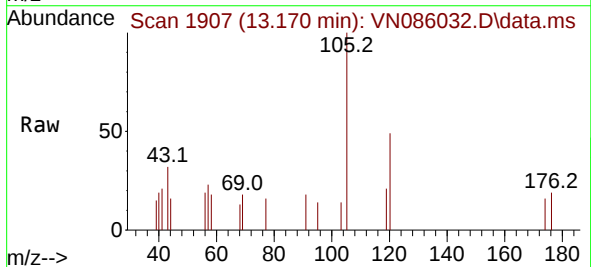
Instrument :
 MSVOA_N
 ClientSampleId :
 N48965

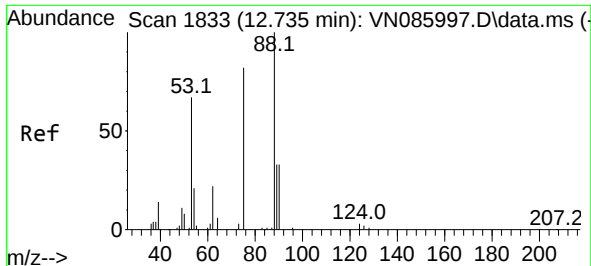
Tgt Ion: 75 Resp: 61532
 Ion Ratio Lower Upper
 75 100
 77 1.2 83.7 251.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.296 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VN086032.D
 Acq: 20 Mar 2025 18:21

Tgt Ion: 105 Resp: 1917
 Ion Ratio Lower Upper
 105 100
 120 45.5 23.7 71.1

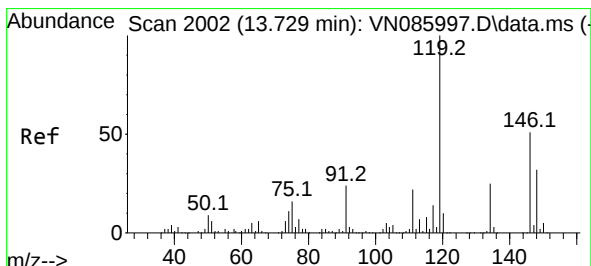
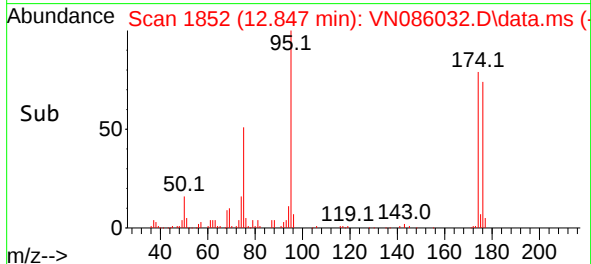
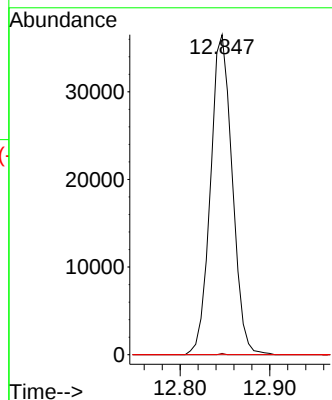
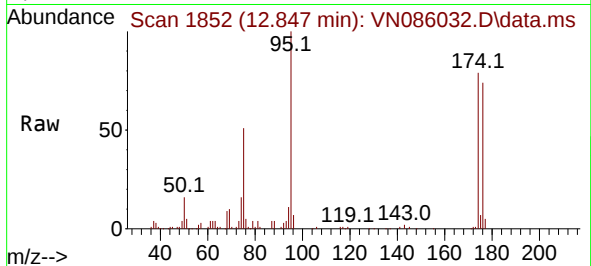




#81
trans-1,4-Dichloro-2-butene
Concen: 64.760 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.111 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

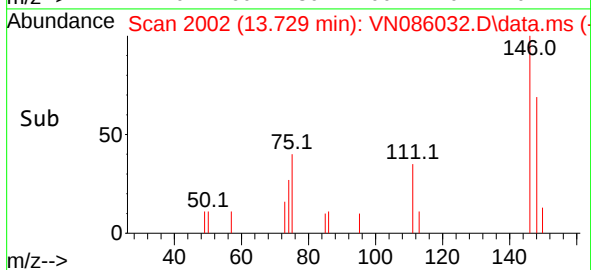
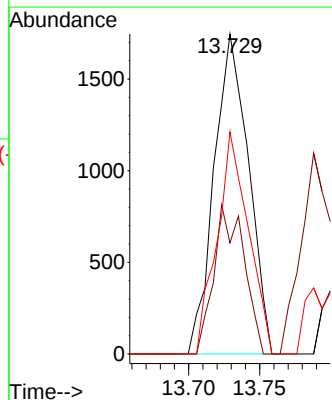
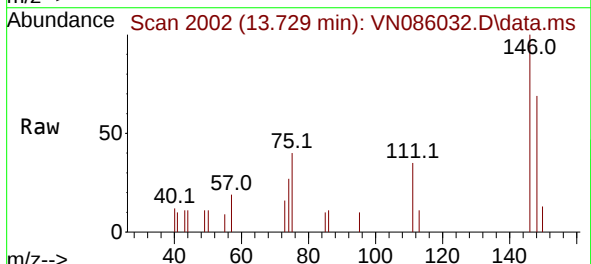
Instrument :
MSVOA_N
ClientSampleId :
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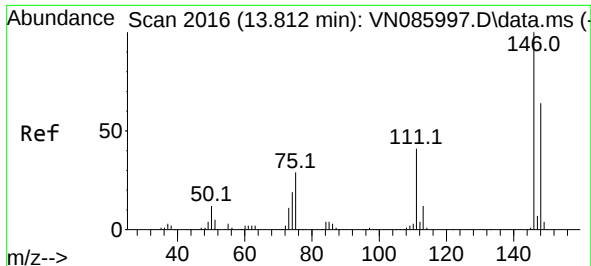
Tgt Ion: 75 Resp: 61532
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#



#87
1,3-Dichlorobenzene
Concen: 0.764 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

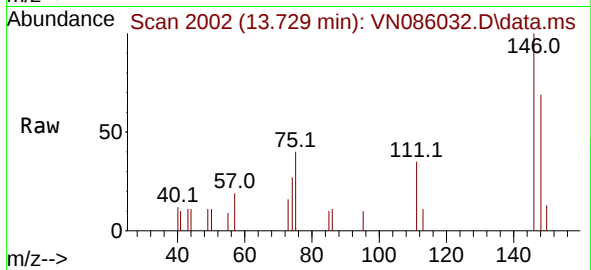
Tgt Ion: 146 Resp: 2942
Ion Ratio Lower Upper
146 100
111 40.9 21.2 63.6
148 63.2 31.8 95.4



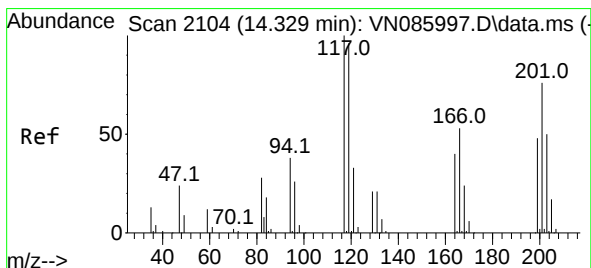
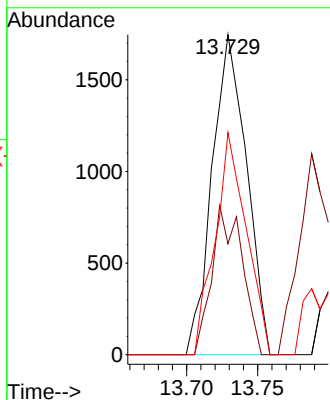
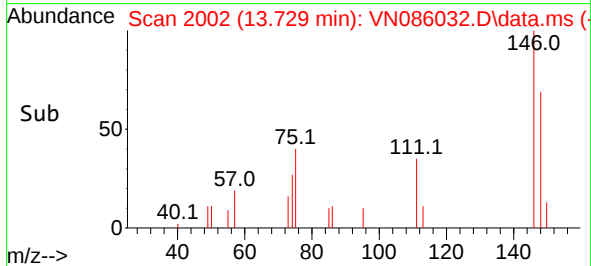


#88
 1,4-Dichlorobenzene
 Concen: 0.727 ug/l
 RT: 13.729 min Scan# 2016
 Delta R.T. -0.083 min
 Lab File: VN086032.D
 Acq: 20 Mar 2025 18:21

Instrument :
 MSVOA_N
 ClientSampleId :
 N48965

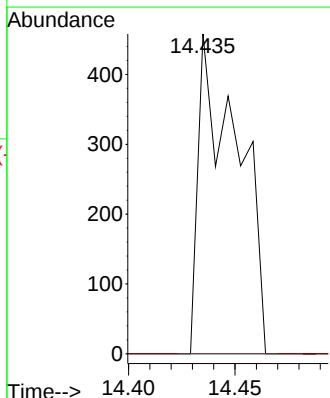
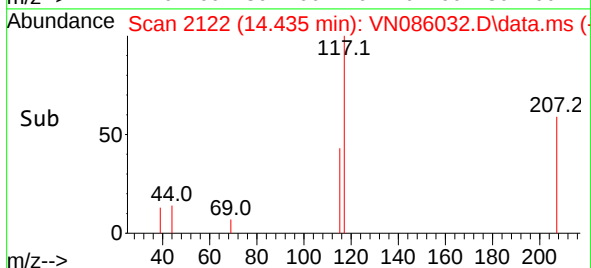
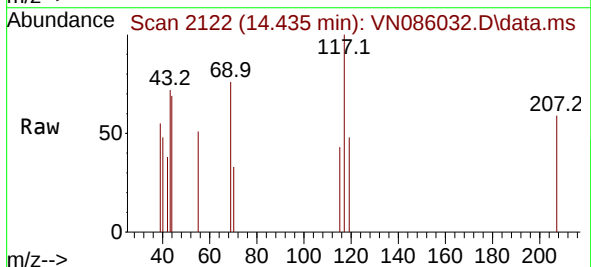


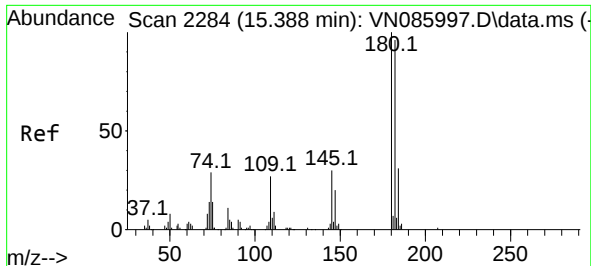
Tgt Ion:146 Resp: 2942
 Ion Ratio Lower Upper
 146 100
 111 40.9 20.4 61.3
 148 63.2 32.1 96.5



#90
 Hexachloroethane
 Concen: 0.418 ug/l
 RT: 14.435 min Scan# 2122
 Delta R.T. 0.106 min
 Lab File: VN086032.D
 Acq: 20 Mar 2025 18:21

Tgt Ion:117 Resp: 589
 Ion Ratio Lower Upper
 117 100
 201 0.0 39.1 117.3#

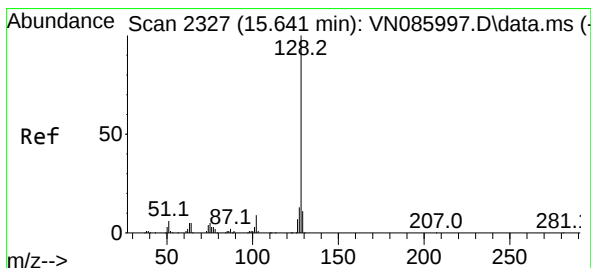
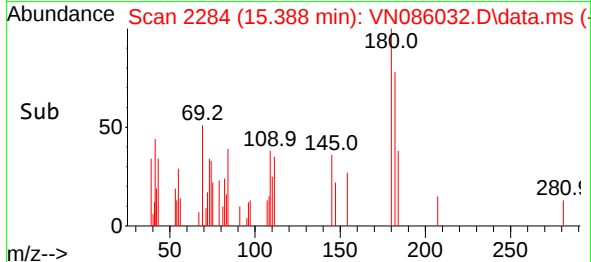
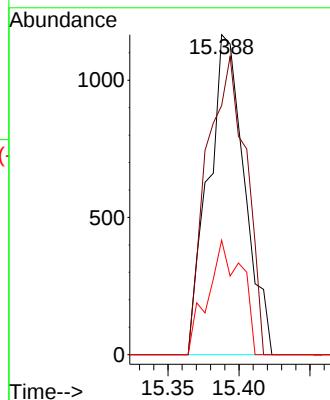
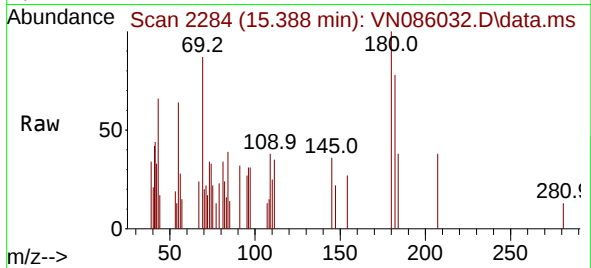




#93
1,2,4-Trichlorobenzene
Concen: 1.070 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

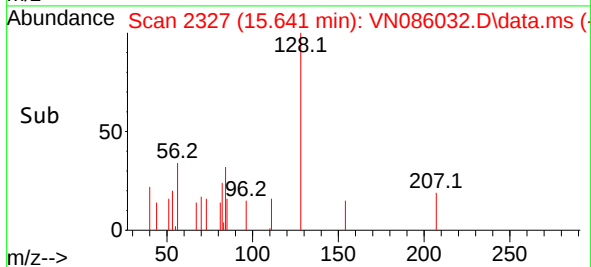
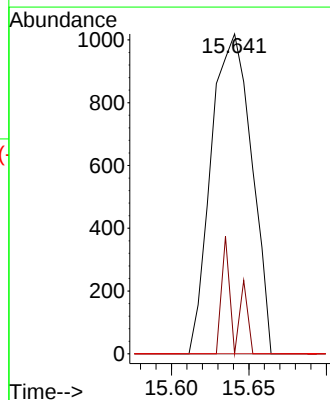
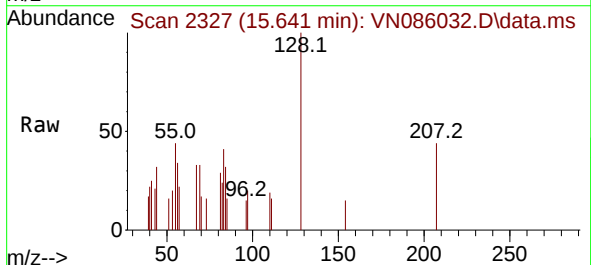
Instrument :
MSVOA_N
ClientSampleId :
N48965

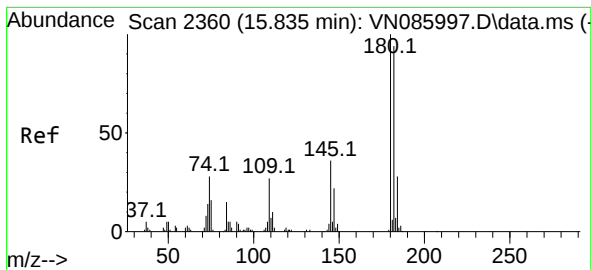
Tgt Ion:180	Resp:	2059
Ion Ratio	Lower	Upper
180	100	
182	100.7	47.0 141.0
145	33.5	15.5 46.5



#95
Naphthalene
Concen: 0.332 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086032.D
Acq: 20 Mar 2025 18:21

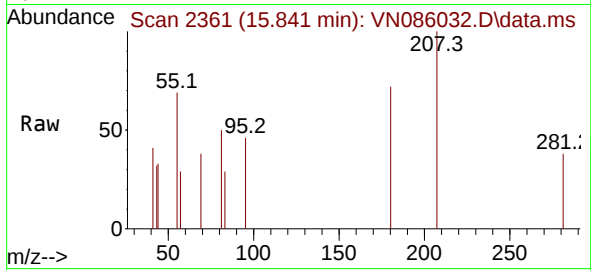
Tgt Ion:128	Resp:	1850
Ion Ratio	Lower	Upper
128	100	
127	11.6	10.2 15.4
129	0.0	9.0 13.6





#96
 1,2,3-Trichlorobenzene
 Concen: 0.283 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086032.D
 Acq: 20 Mar 2025 18:21

Instrument :
 MSVOA_N
 ClientSampleId :
 N48965



Tgt Ion:180 Resp: 517
 Ion Ratio Lower Upper
 180 100
 182 66.5 47.5 142.5
 145 0.0 17.7 53.1#

