

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112624\
 Data File : VN085044.D
 Acq On : 26 Nov 2024 15:47
 Operator : JC\MD
 Sample : P4985-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 27 05:16:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

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

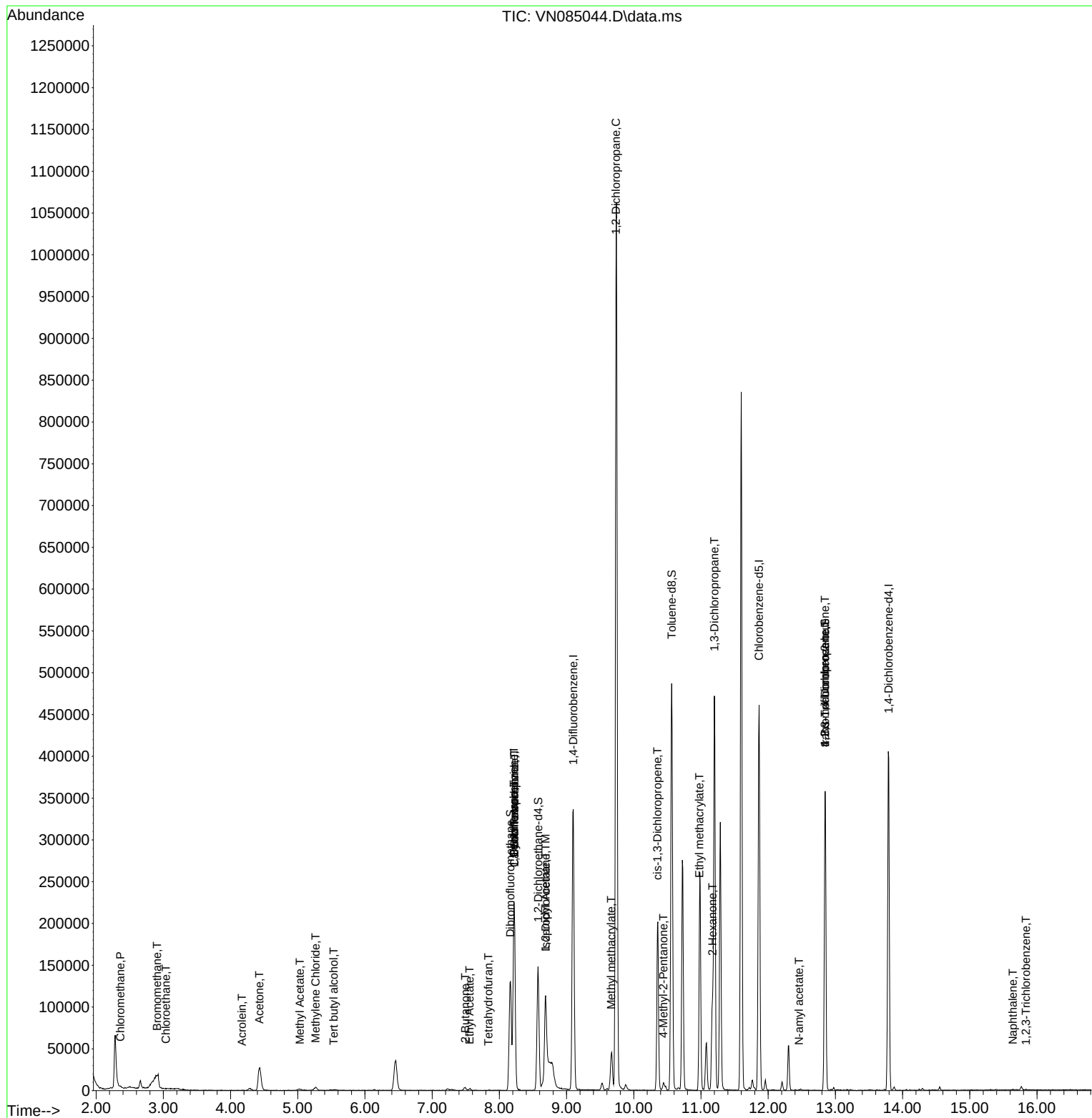
Internal Standards						
1) Pentafluorobenzene	8.218	168	158559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	290833	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	259970	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109771	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118238	52.351	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.700%			
35) Dibromofluoromethane	8.165	113	95342	48.612	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.220%			
50) Toluene-d8	10.565	98	338774	48.198	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.400%			
62) 4-Bromofluorobenzene	12.847	95	125845	47.877	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.760%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	676	0.325	ug/l #	40
5) Bromomethane	2.906	94	345	0.329	ug/l #	1
6) Chloroethane	3.036	64	257	0.204	ug/l #	44
11) Tert butyl alcohol	5.536	59	881	2.919	ug/l #	75
13) Acrolein	4.171	56	75	0.372	ug/l #	16
16) Acetone	4.430	43	53125	80.764	ug/l	98
18) Methyl Acetate	5.030	43	3918	0.733	ug/l #	73
20) Methylene Chloride	5.265	84	2589	1.290	ug/l #	81
25) 2-Butanone	7.494	43	5886	5.473	ug/l	100
29) Tetrahydrofuran	7.836	42	313	0.468	ug/l #	31
31) Cyclohexane	8.218	56	3433	1.141	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13586	5.114	ug/l #	51
37) Ethyl Acetate	7.559	43	3007	1.245	ug/l #	78
38) Carbon Tetrachloride	8.224	117	17188	5.605	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	619	0.215	ug/l #	75
43) Isopropyl Acetate	8.688	43	166898	33.270	ug/l #	80
45) 1,2-Dichloropropane	9.735	63	1246	0.602	ug/l #	45
48) Methyl methacrylate	9.665	41	3069	1.644	ug/l #	38
51) 4-Methyl-2-Pentanone	10.441	43	10200	4.452	ug/l #	69
54) cis-1,3-Dichloropropene	10.353	75	36644	11.304	ug/l #	67
56) Ethyl methacrylate	10.977	69	1325	0.489	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4710	1.444	ug/l #	42
59) 2-Hexanone	11.171	43	77352	45.138	ug/l #	23
74) N-amyl acetate	12.459	43	910	0.285	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	66022	33.066	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	66022	72.996	ug/l #	10
95) Naphthalene	15.641	128	1502	0.246	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.835	180	414	0.203	ug/l #	61

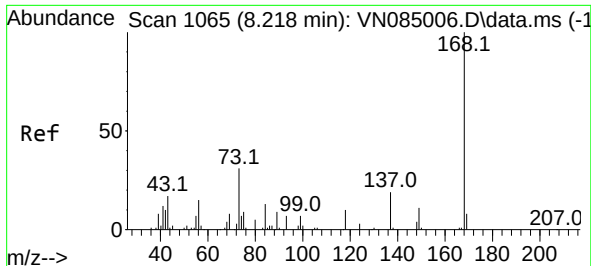
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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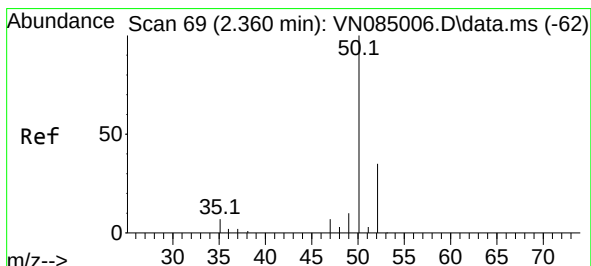
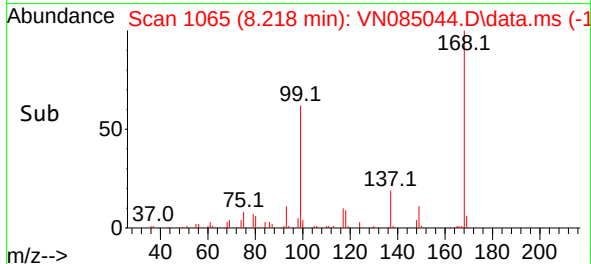
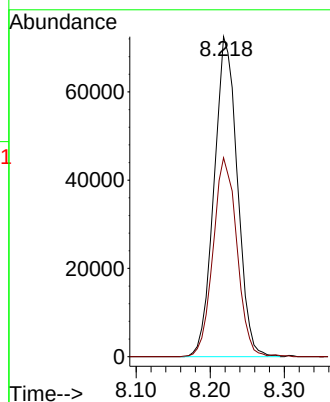
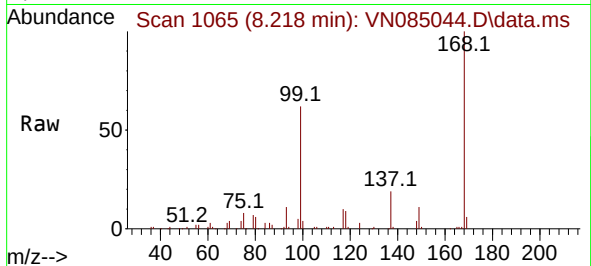




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

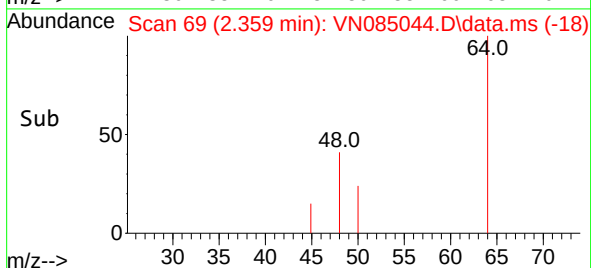
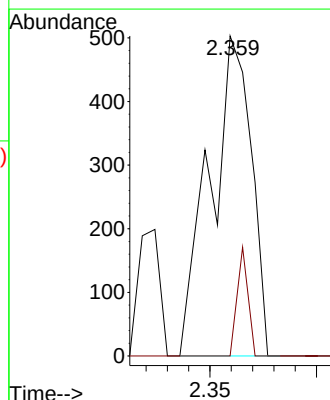
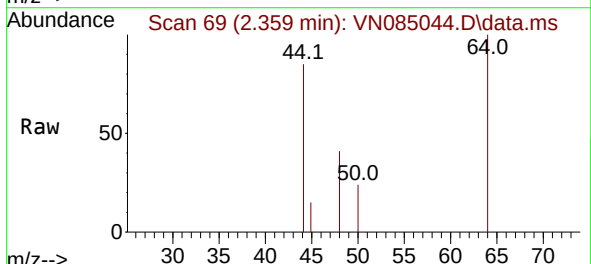
Instrument :
MSVOA_N
ClientSampleId :

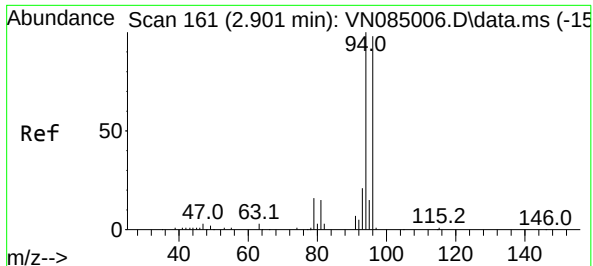
Tgt Ion:168 Resp: 158559
Ion Ratio Lower Upper
168 100
99 62.2 51.2 76.8



#3
Chloromethane
Concen: 0.325 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 50 Resp: 676
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

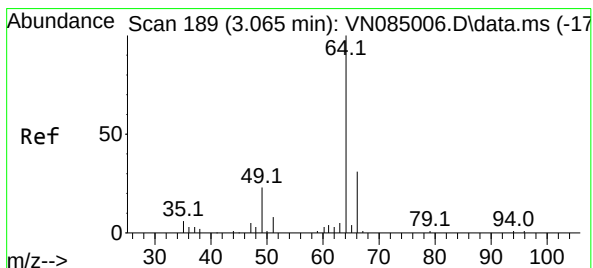
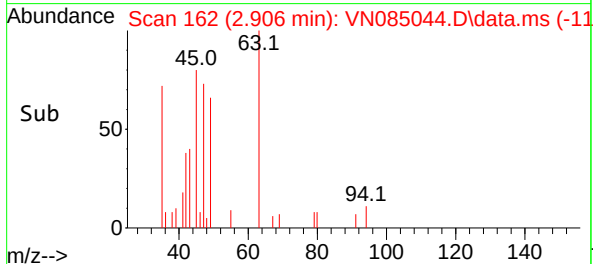
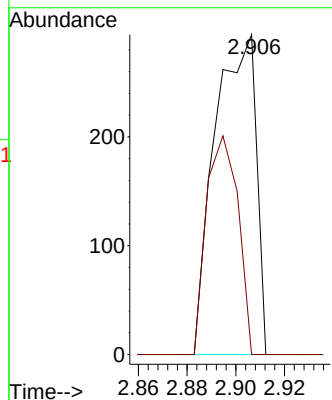
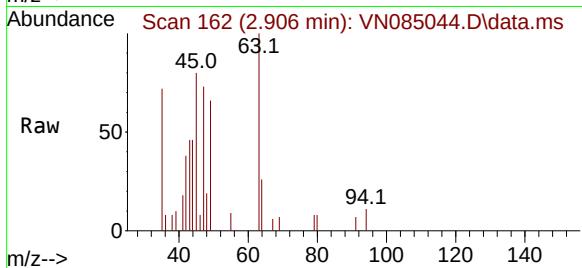




#5
Bromomethane
Concen: 0.329 ug/l
RT: 2.906 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

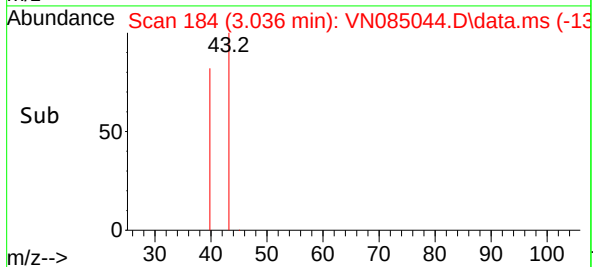
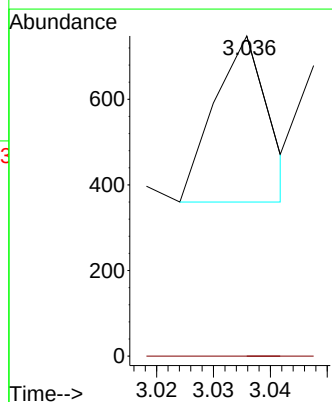
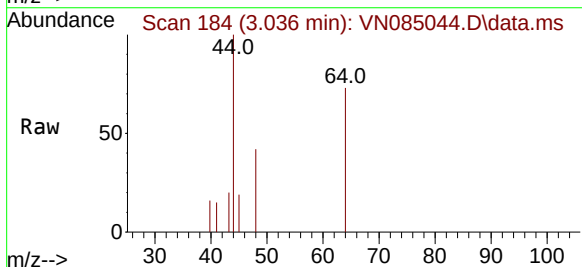
Instrument :
MSVOA_N
ClientSampleId :

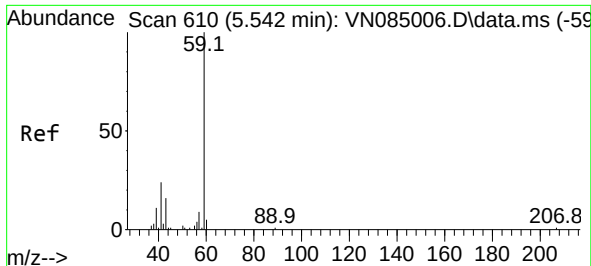
Tgt Ion: 94 Resp: 345
Ion Ratio Lower Upper
94 100
96 0.0 78.7 118.1#



#6
Chloroethane
Concen: 0.204 ug/l
RT: 3.036 min Scan# 184
Delta R.T. -0.030 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

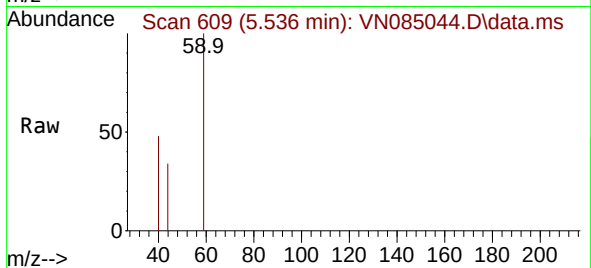
Tgt Ion: 64 Resp: 257
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



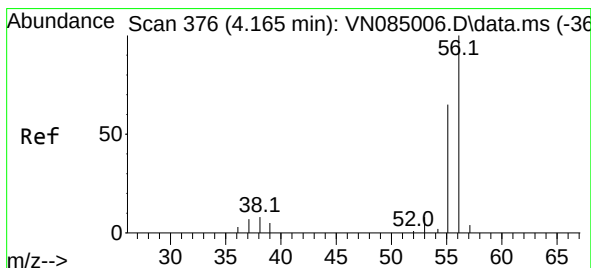
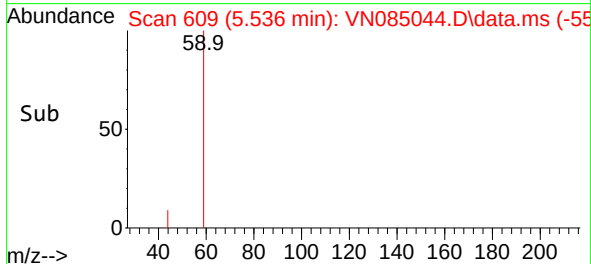
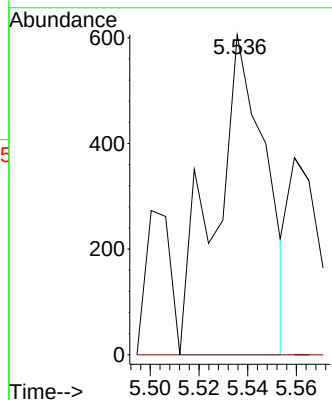


#11
Tert butyl alcohol
Concen: 2.919 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :

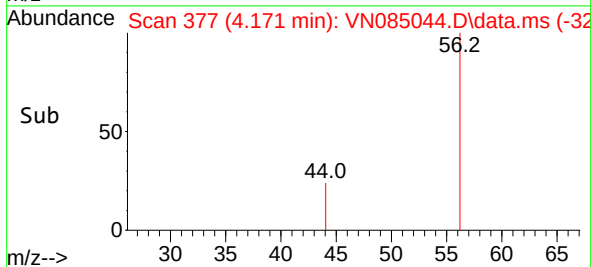
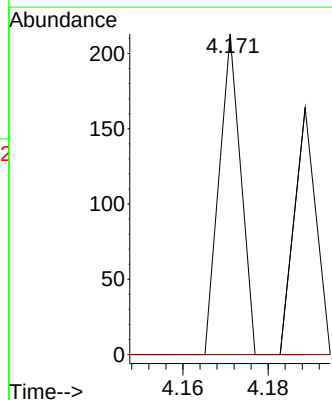
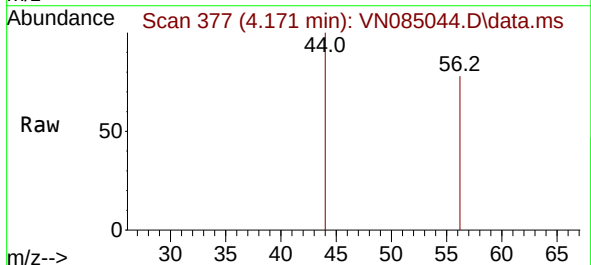


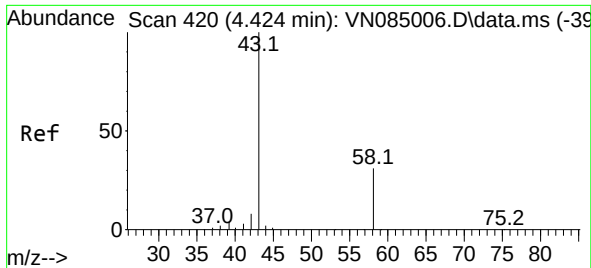
Tgt Ion: 59 Resp: 881
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#



#13
Acrolein
Concen: 0.372 ug/l
RT: 4.171 min Scan# 377
Delta R.T. 0.006 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 56 Resp: 75
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#





#16

Acetone

Concen: 80.764 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Instrument :

MSVOA_N

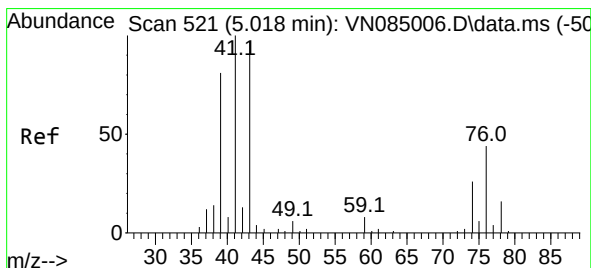
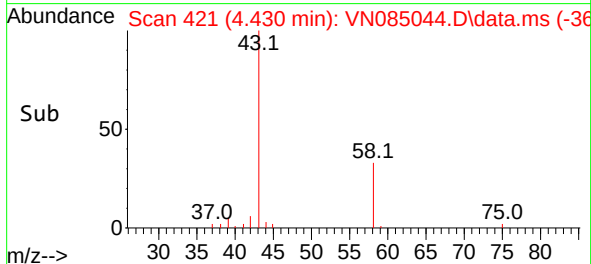
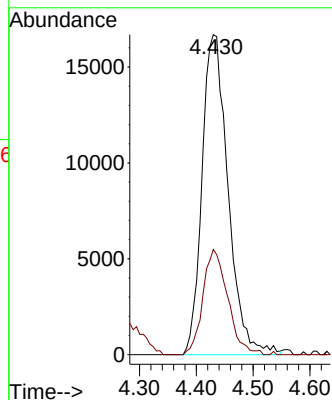
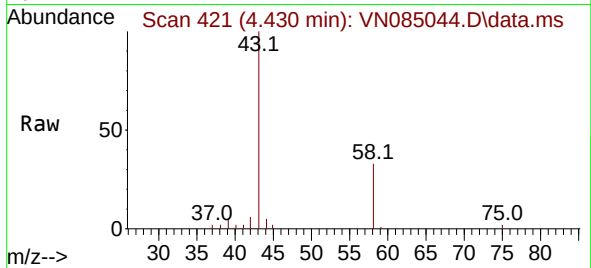
ClientSampleId :

Tgt Ion: 43 Resp: 53125

Ion Ratio Lower Upper

43 100

58 32.9 25.4 38.2



#18

Methyl Acetate

Concen: 0.733 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085044.D

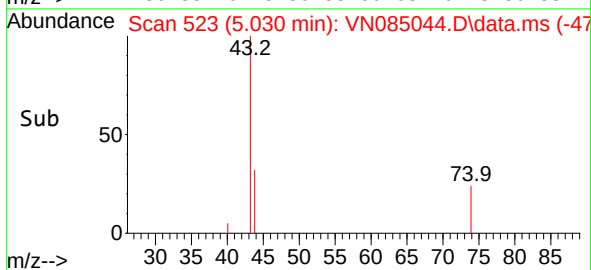
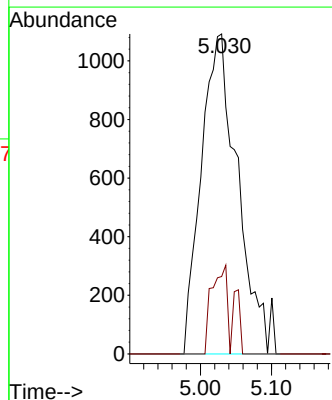
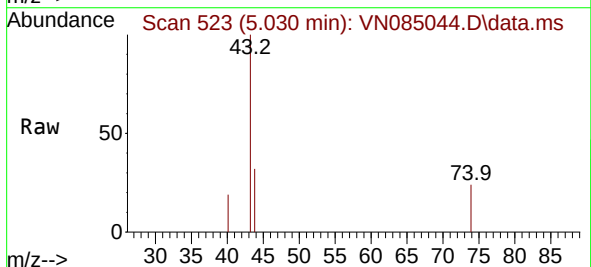
Acq: 26 Nov 2024 15:47

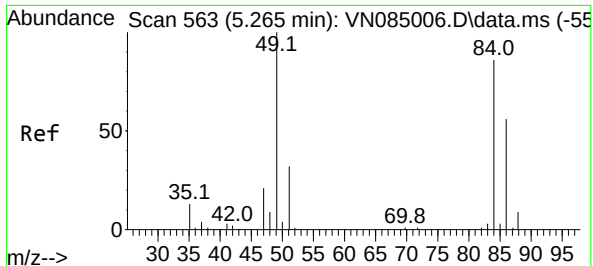
Tgt Ion: 43 Resp: 3918

Ion Ratio Lower Upper

43 100

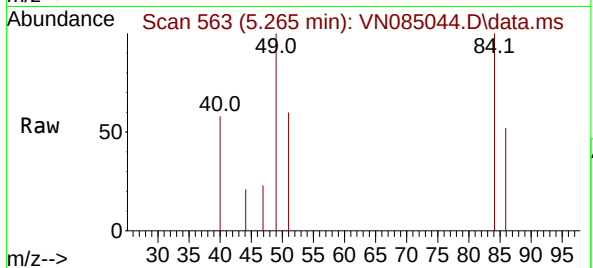
74 11.5 20.1 30.1#



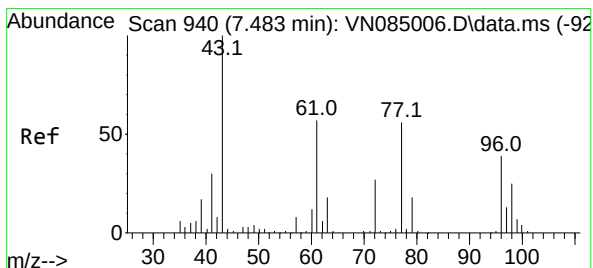
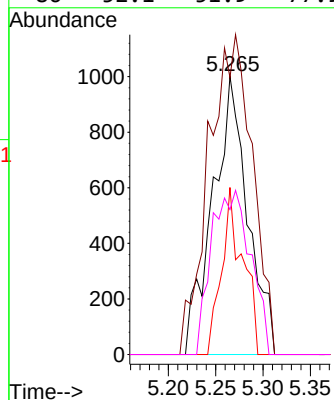


#20
Methylene Chloride
Concen: 1.290 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :

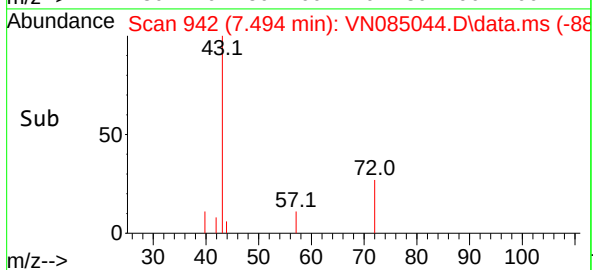
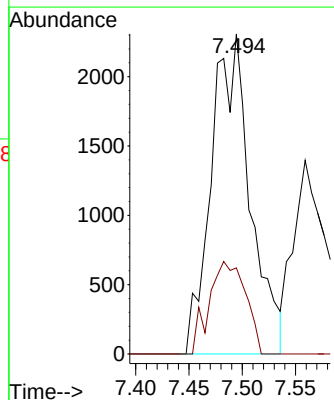
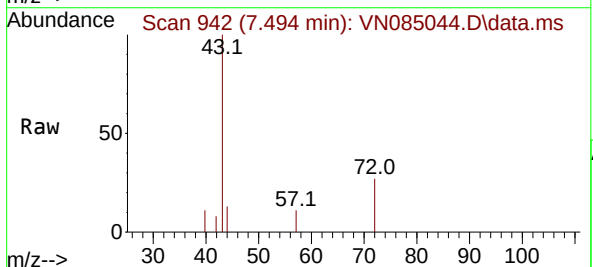


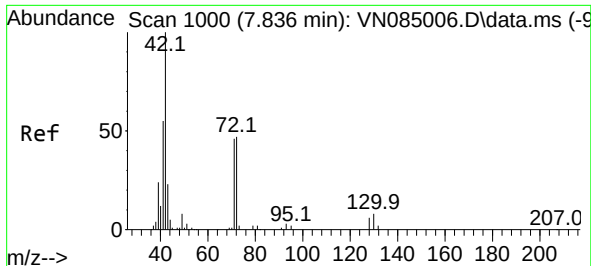
Tgt Ion: 84	Resp: 2589
Ion Ratio	Lower Upper
84 100	
49 99.5	92.7 139.1
51 60.0	29.4 44.2#
86 52.1	51.9 77.9



#25
2-Butanone
Concen: 5.473 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 43	Resp: 5886
Ion Ratio	Lower Upper
43 100	
72 26.9	21.4 32.0





#29

Tetrahydrofuran

Concen: 0.468 ug/l

RT: 7.836 min Scan# 1065

Delta R.T. -0.000 min

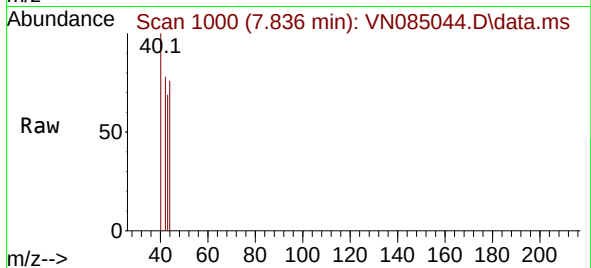
Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

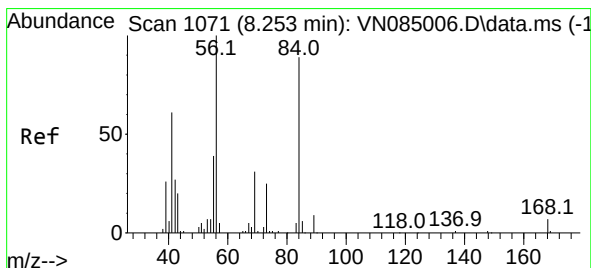
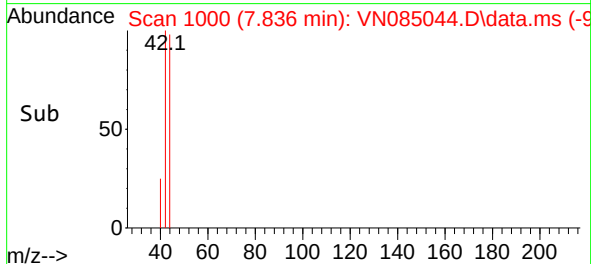
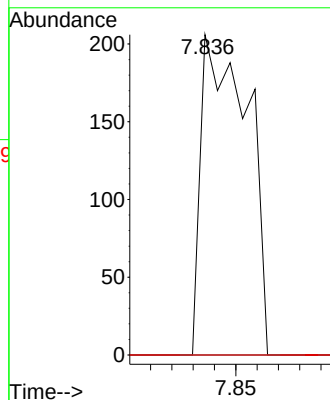
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	313
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.0	55.4#
71	0.0	35.0	52.4#



#31

Cyclohexane

Concen: 1.141 ug/l

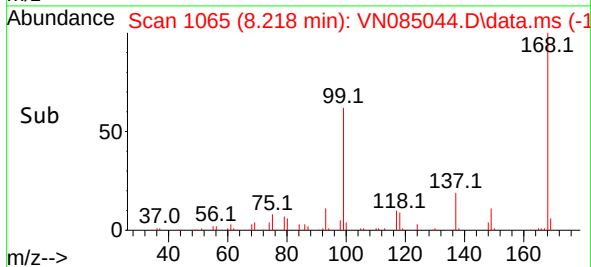
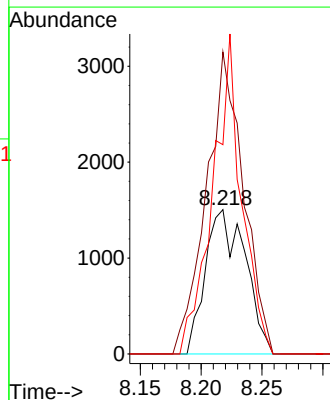
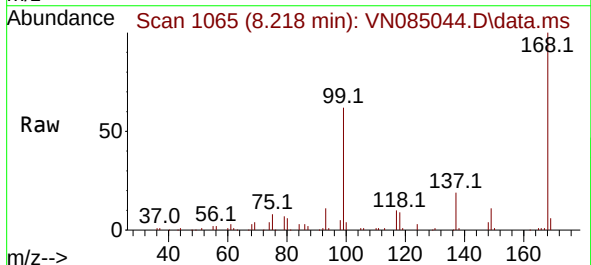
RT: 8.218 min Scan# 1065

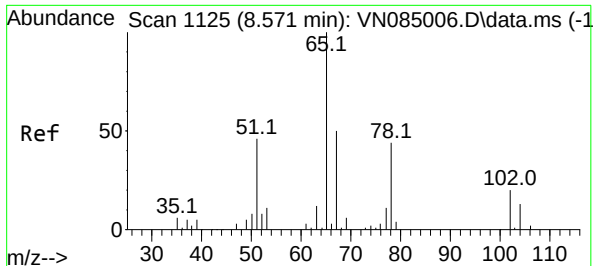
Delta R.T. -0.035 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Tgt Ion:	56	Resp:	3433
Ion	Ratio	Lower	Upper
56	100		
69	209.2	24.6	36.8#
84	145.0	71.4	107.2#





#33

1,2-Dichloroethane-d4

Concen: 52.351 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Instrument :

MSVOA_N

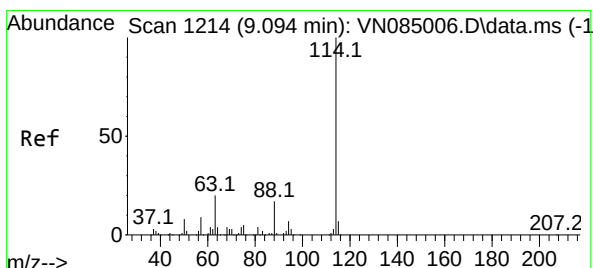
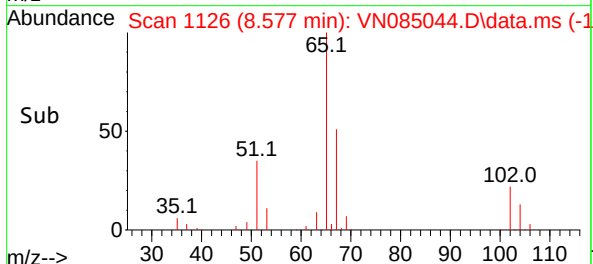
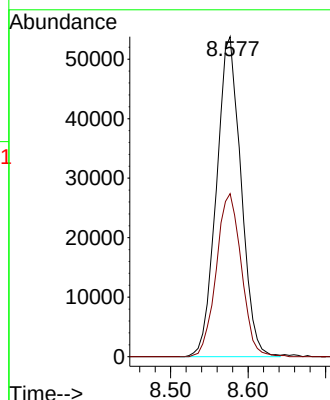
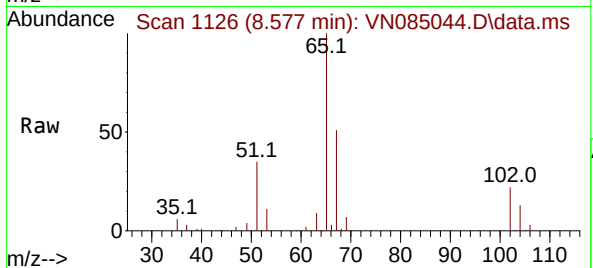
ClientSampleId :

Tgt Ion: 65 Resp: 118238

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

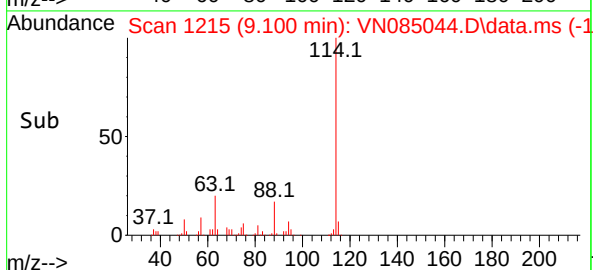
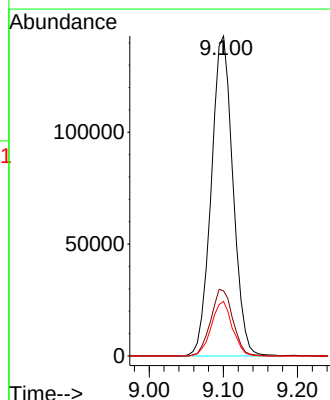
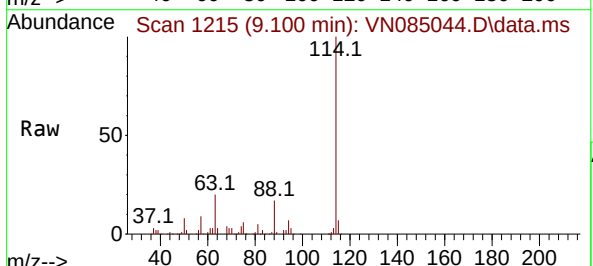
Tgt Ion: 114 Resp: 290833

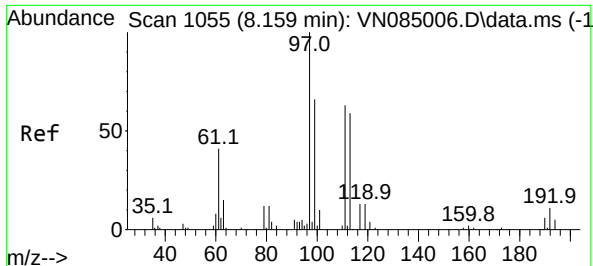
Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.0

88 17.1 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.612 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

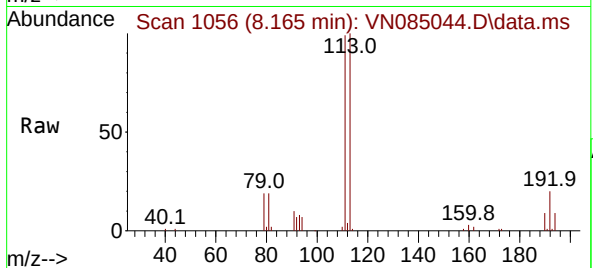
Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Instrument :

MSVOA_N

ClientSampleId :



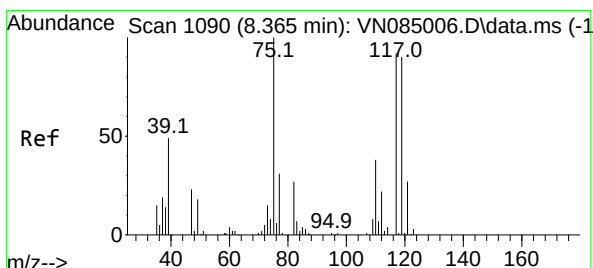
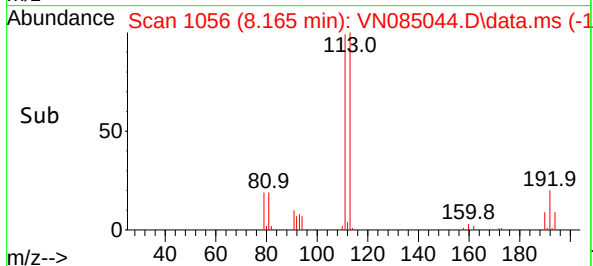
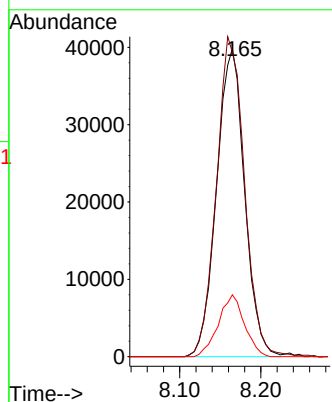
Tgt Ion:113 Resp: 95342

Ion Ratio Lower Upper

113 100

111 104.4 82.0 123.0

192 18.7 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.114 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

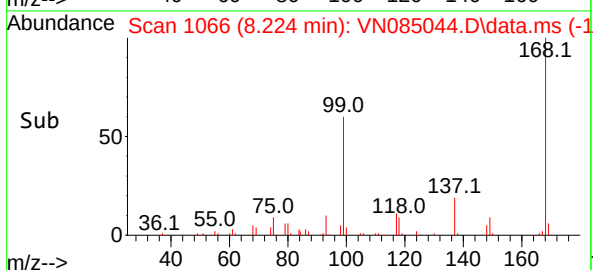
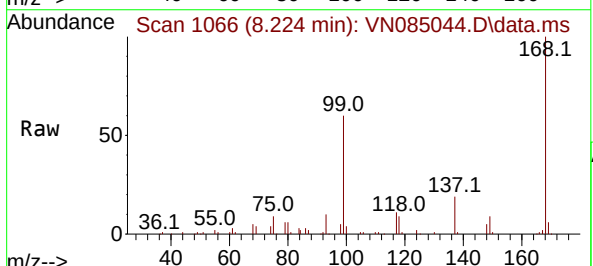
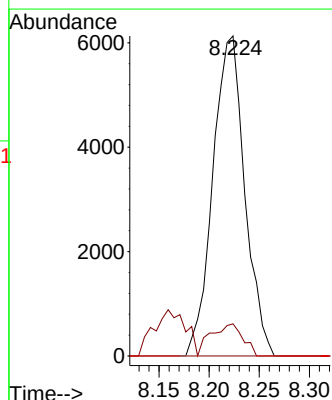
Tgt Ion: 75 Resp: 13586

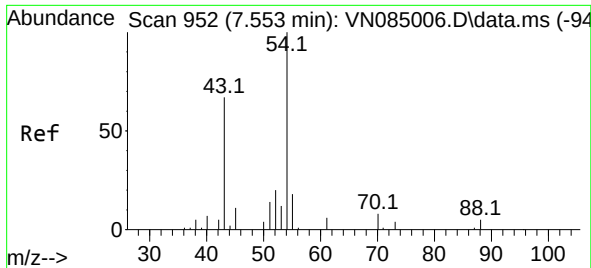
Ion Ratio Lower Upper

75 100

110 10.0 17.2 51.6#

77 0.0 24.2 36.4#

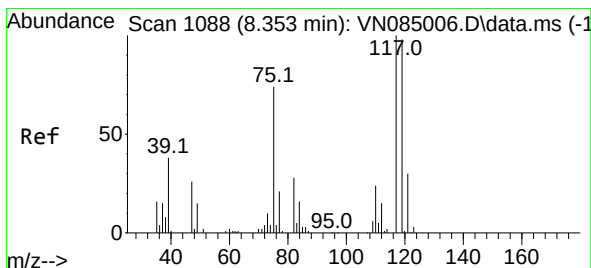
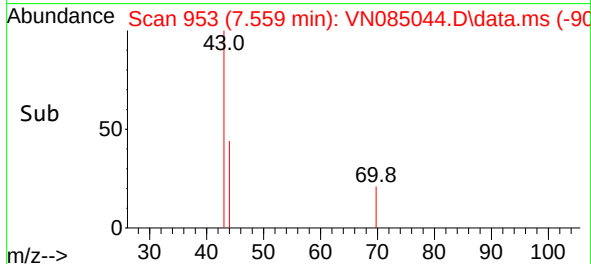
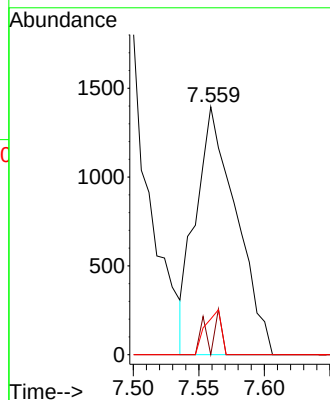
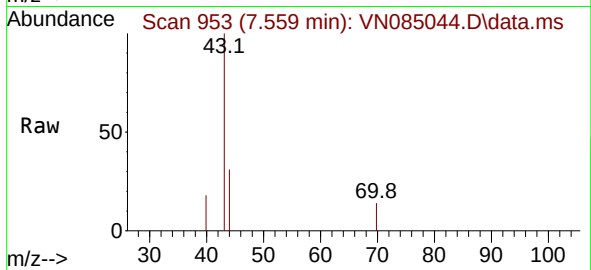




#37
Ethyl Acetate
Concen: 1.245 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

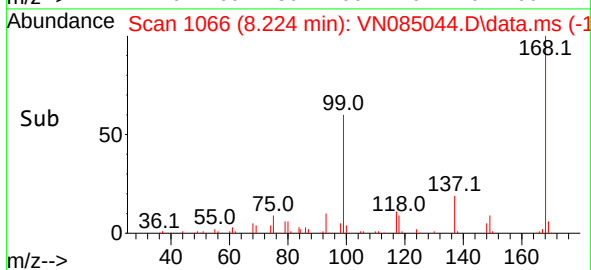
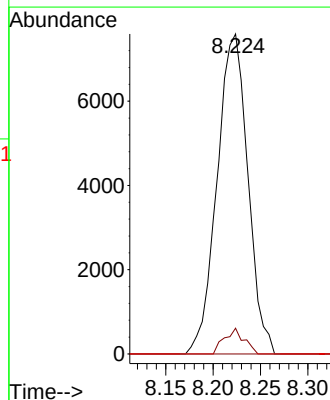
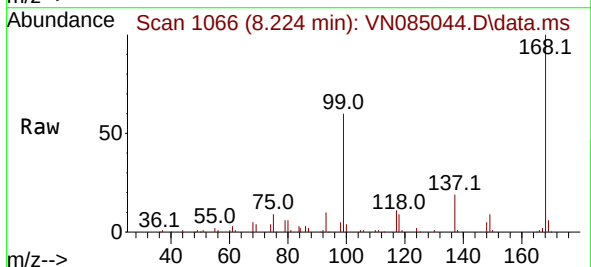
Instrument :
MSVOA_N
ClientSampleId :

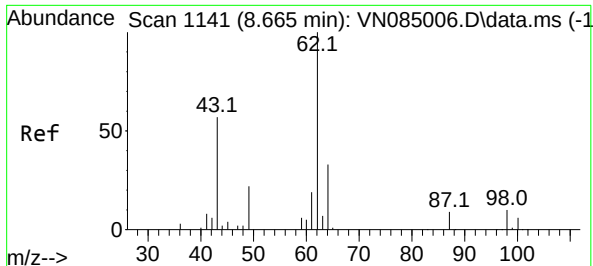
Tgt Ion: 43 Resp: 3007
Ion Ratio Lower Upper
43 100
61 2.5 11.7 17.5#
70 7.1 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.605 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.130 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 117 Resp: 17188
Ion Ratio Lower Upper
117 100
119 8.0 78.6 117.8#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.215 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.023 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Instrument :

MSVOA_N

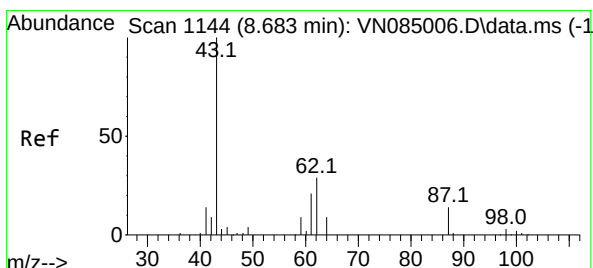
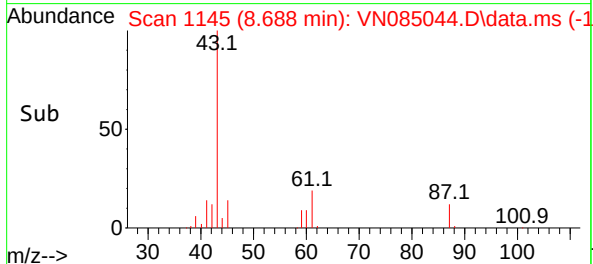
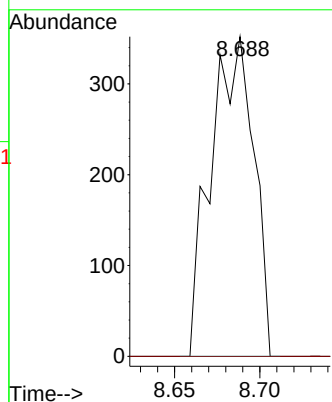
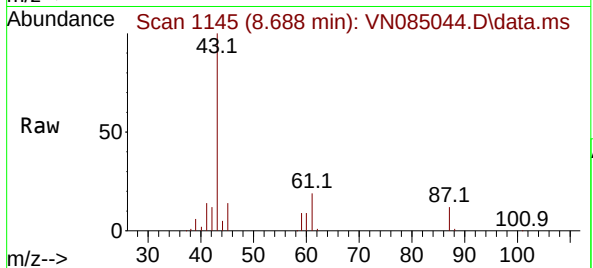
ClientSampleId :

Tgt Ion: 62 Resp: 619

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 33.270 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

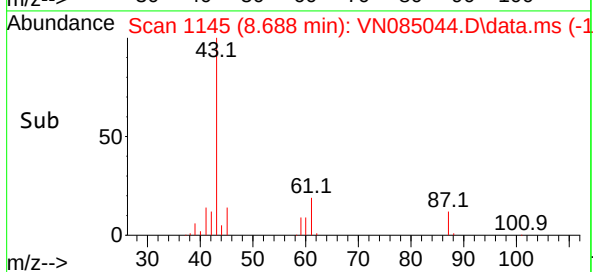
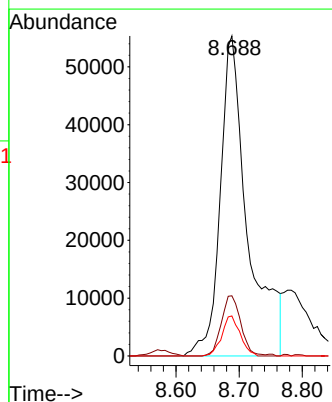
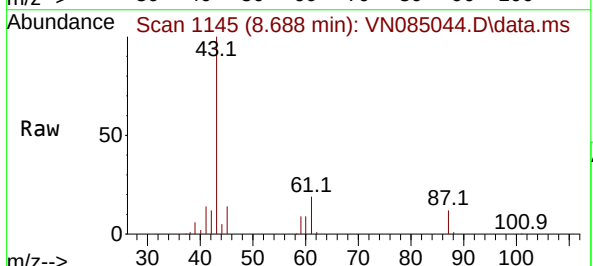
Tgt Ion: 43 Resp: 166898

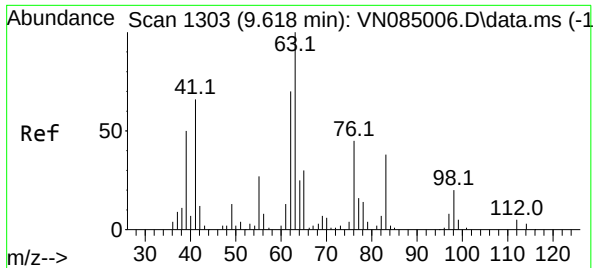
Ion Ratio Lower Upper

43 100

61 13.4 20.6 30.8#

87 8.4 11.0 16.4#

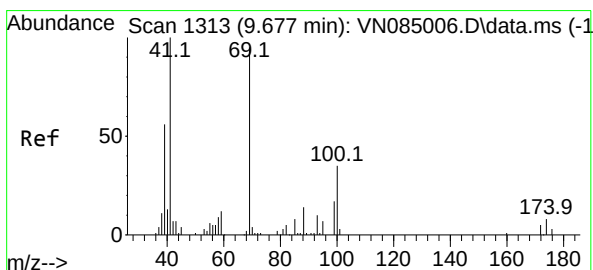
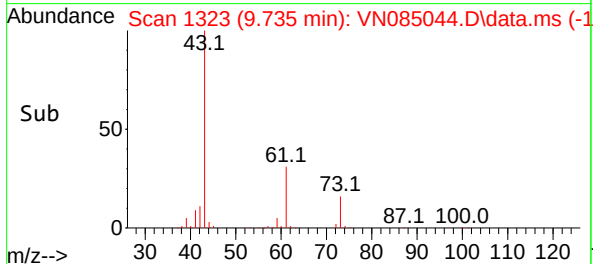
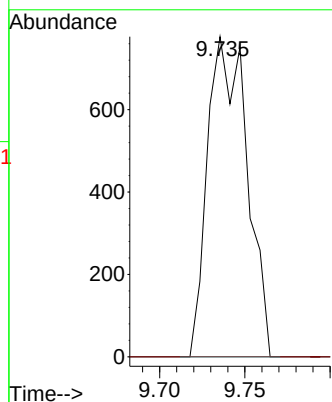
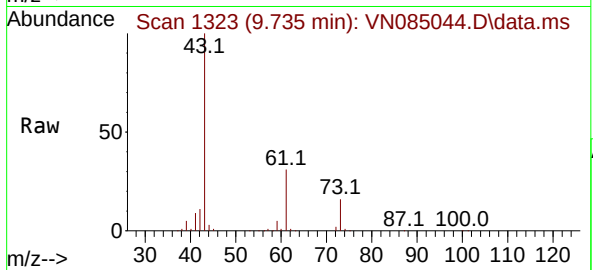




#45
1,2-Dichloropropane
Concen: 0.602 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

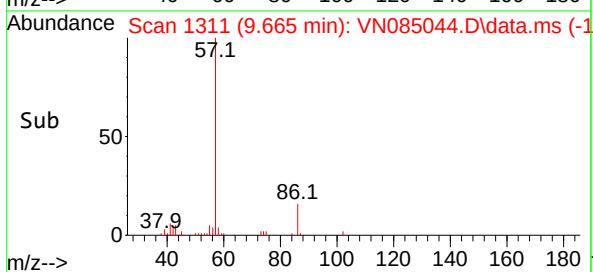
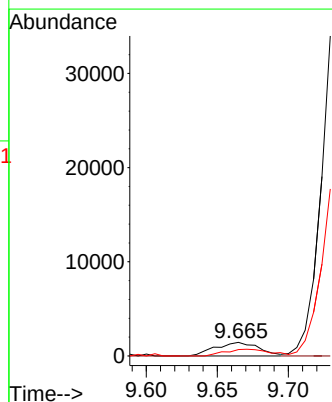
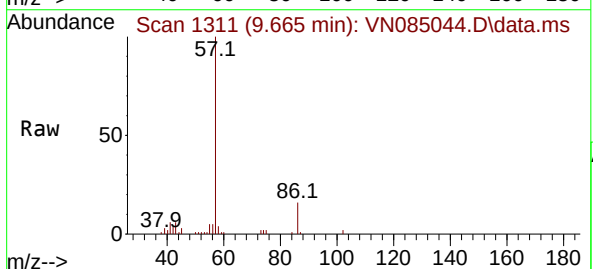
Instrument :
MSVOA_N
ClientSampleId :

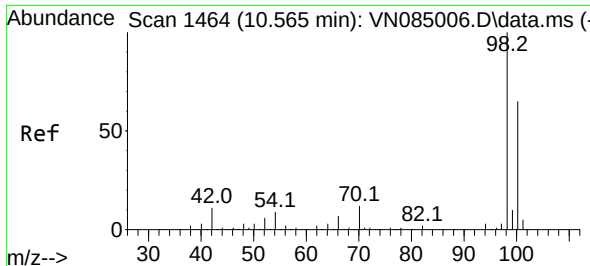
Tgt Ion: 63 Resp: 1246
Ion Ratio Lower Upper
63 100
65 0.0 24.0 36.0#



#48
Methyl methacrylate
Concen: 1.644 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.012 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 41 Resp: 3069
Ion Ratio Lower Upper
41 100
69 0.0 73.2 109.8#
39 51.3 46.2 69.4

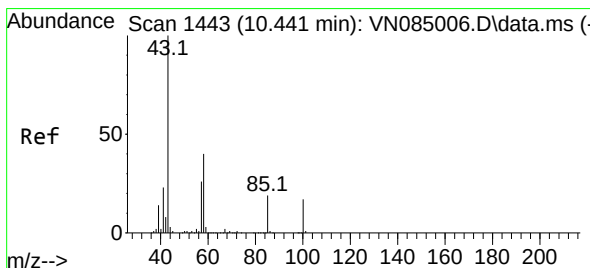
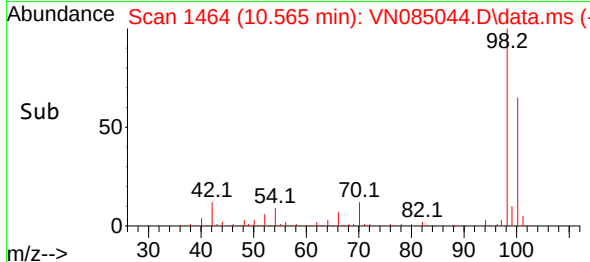
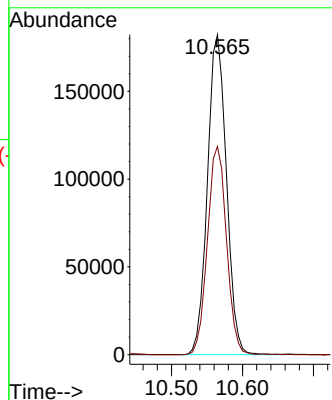
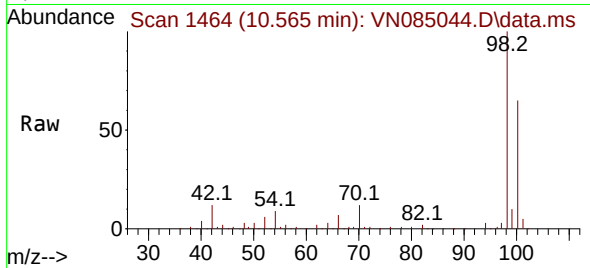




#50
Toluene-d8
Concen: 48.198 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

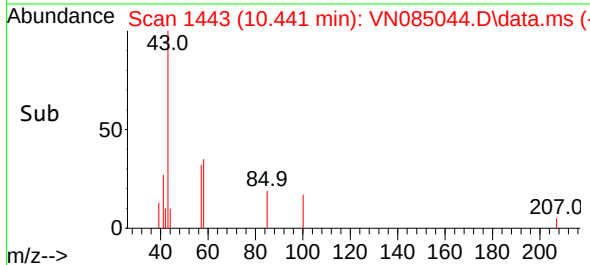
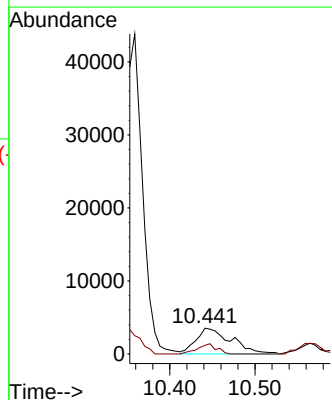
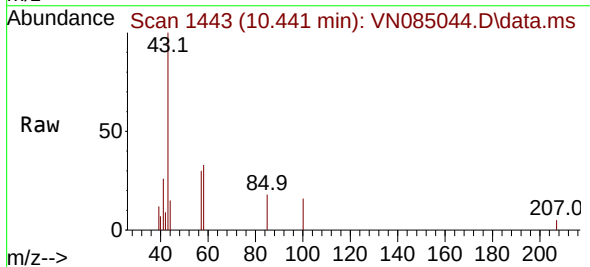
Instrument :
MSVOA_N
ClientSampleId :

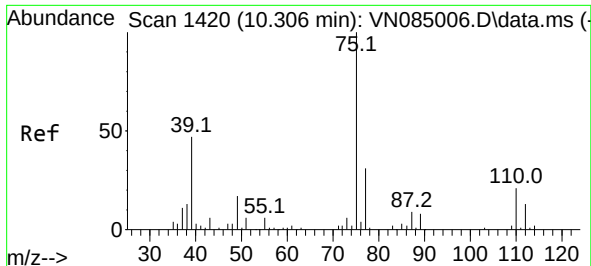
Tgt Ion: 98 Resp: 338774
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 4.452 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 43 Resp: 10200
Ion Ratio Lower Upper
43 100
58 21.2 32.1 48.1#

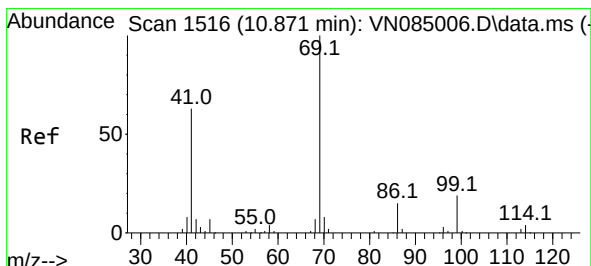
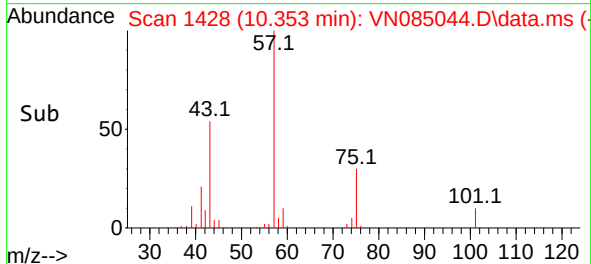
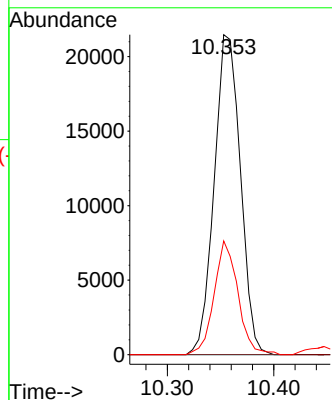
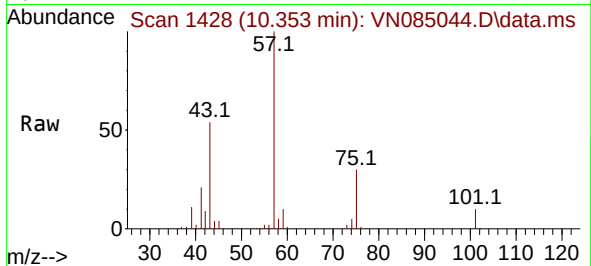




#54
 cis-1,3-Dichloropropene
 Concen: 11.304 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085044.D
 Acq: 26 Nov 2024 15:47

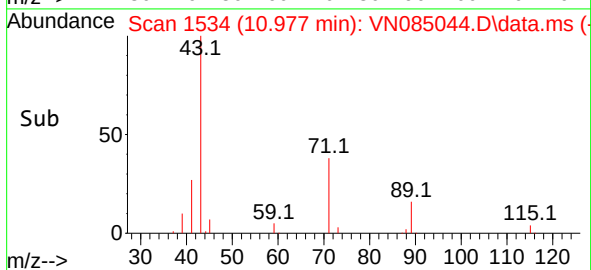
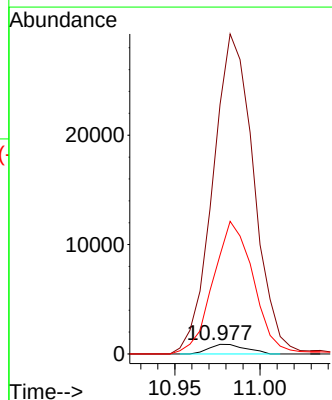
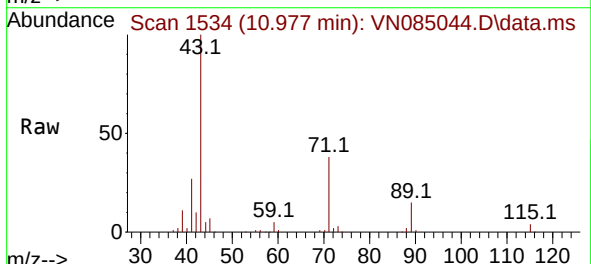
Instrument :
 MSVOA_N
 ClientSampleId :

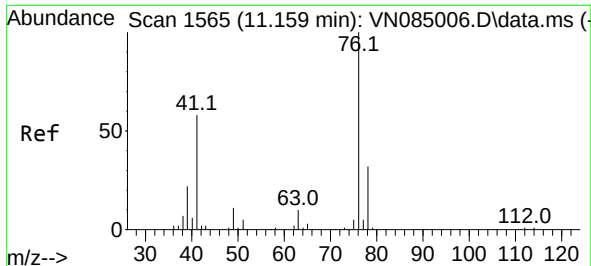
Tgt Ion: 75 Resp: 36644
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 35.6 37.6 56.4#



#56
 Ethyl methacrylate
 Concen: 0.489 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN085044.D
 Acq: 26 Nov 2024 15:47

Tgt Ion: 69 Resp: 1325
 Ion Ratio Lower Upper
 69 100
 41 3708.9 50.0 75.0#
 39 1524.5 27.0 40.6#





#57

1,3-Dichloropropane

Concen: 1.444 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN085044.D

Acq: 26 Nov 2024 15:47

Instrument :

MSVOA_N

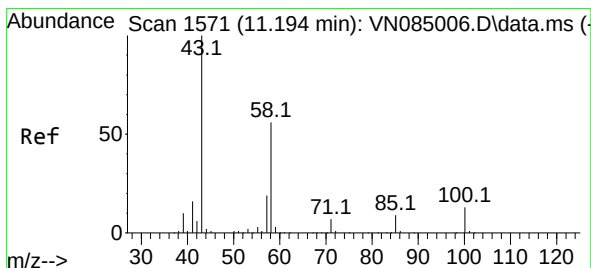
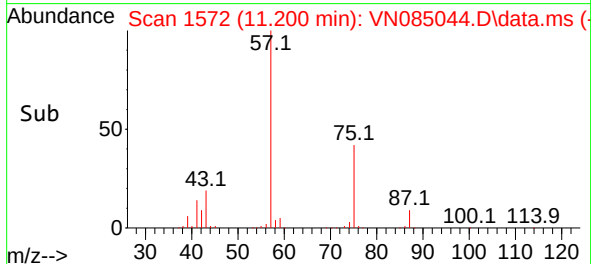
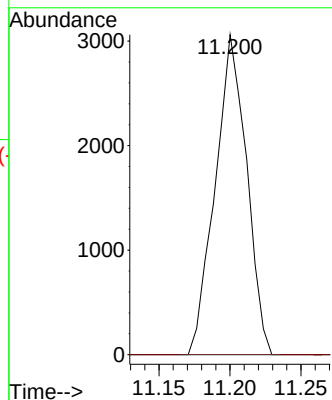
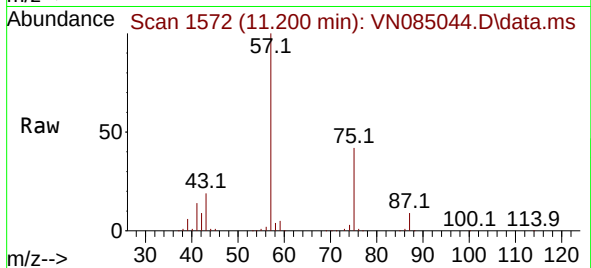
ClientSampleId :

Tgt Ion: 76 Resp: 4710

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 45.138 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN085044.D

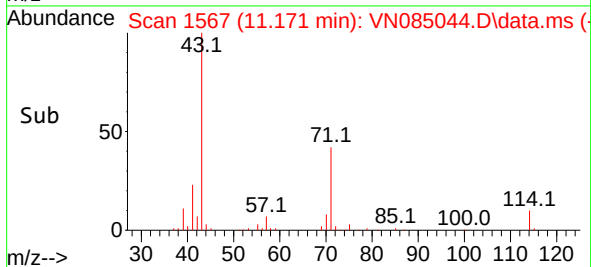
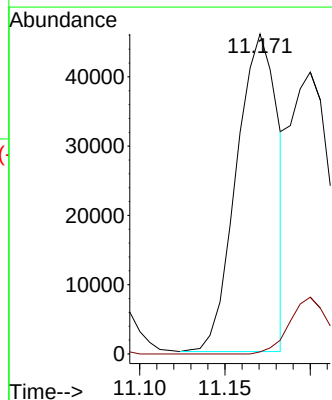
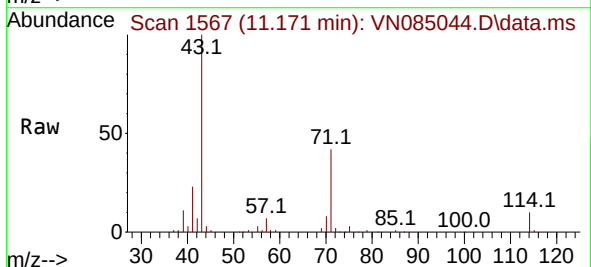
Acq: 26 Nov 2024 15:47

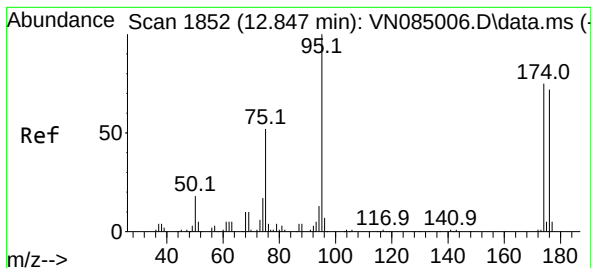
Tgt Ion: 43 Resp: 77352

Ion Ratio Lower Upper

43 100

58 0.0 28.3 85.0#

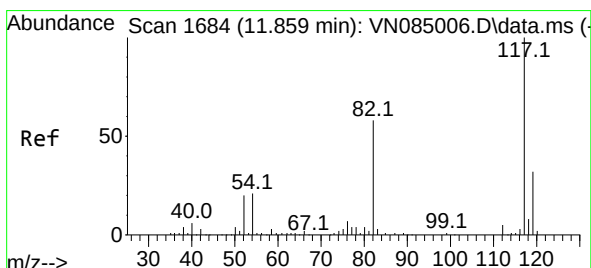
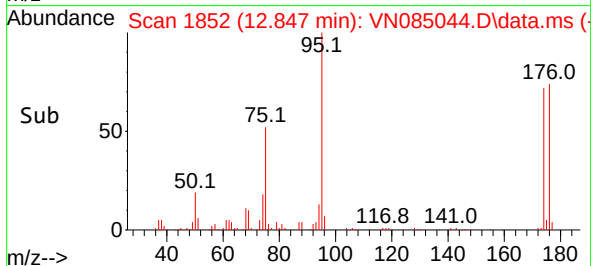
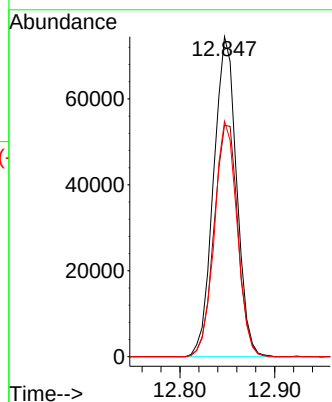
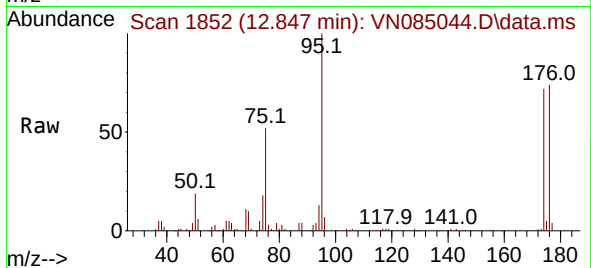




#62
4-Bromofluorobenzene
Concen: 47.877 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

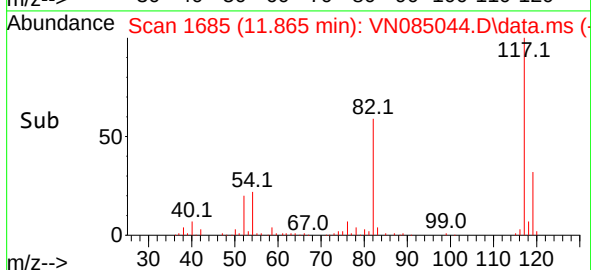
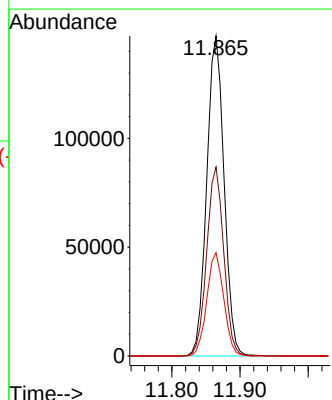
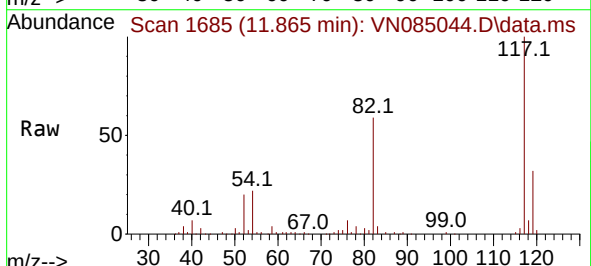
Instrument :
MSVOA_N
ClientSampleId :

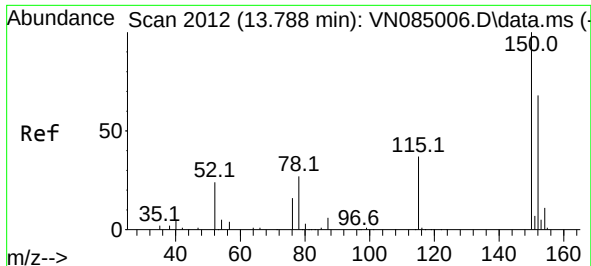
Tgt Ion: 95 Resp: 125845
Ion Ratio Lower Upper
95 100
174 74.8 0.0 146.6
176 72.7 0.0 141.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

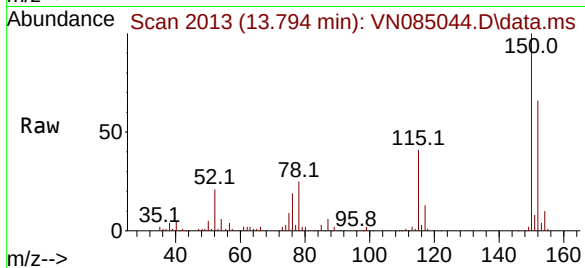
Tgt Ion: 117 Resp: 259970
Ion Ratio Lower Upper
117 100
82 59.0 46.0 69.0
119 32.3 25.6 38.4



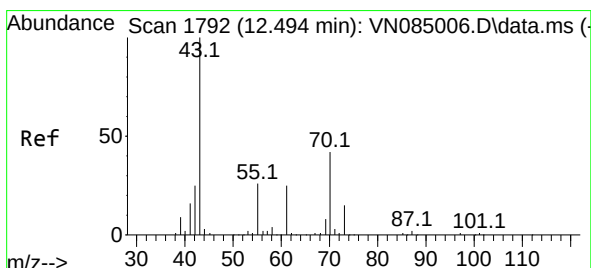
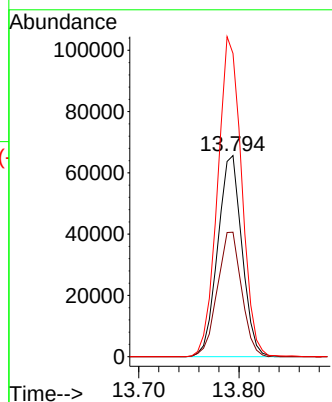
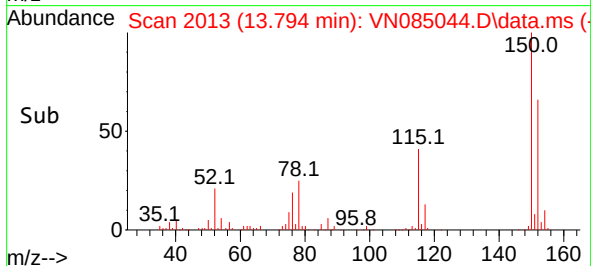


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN085044.D
 Acq: 26 Nov 2024 15:47

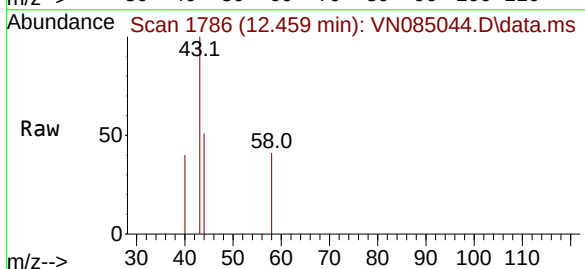
Instrument :
 MSVOA_N
 ClientSampleId :



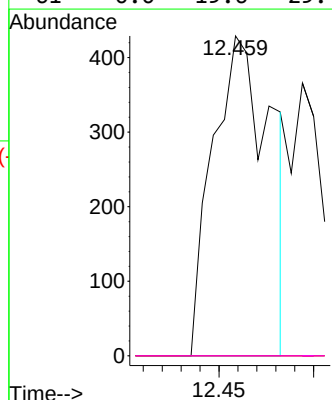
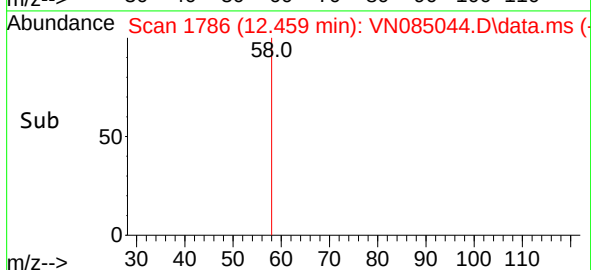
Tgt Ion:152 Resp: 109771
 Ion Ratio Lower Upper
 152 100
 115 62.0 31.7 95.1
 150 158.0 0.0 351.4

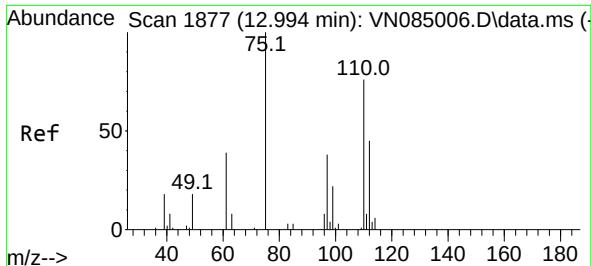


#74
 N-ethyl acetate
 Concen: 0.285 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN085044.D
 Acq: 26 Nov 2024 15:47



Tgt Ion: 43 Resp: 910
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 51.8#
 55 0.0 20.5 30.7#
 61 0.0 19.6 29.4#

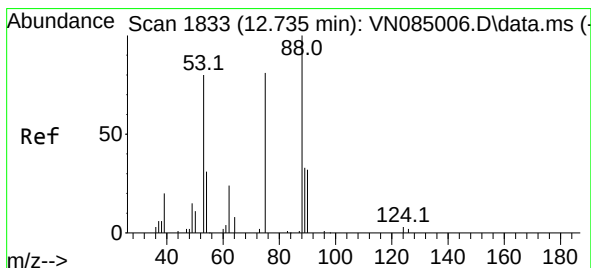
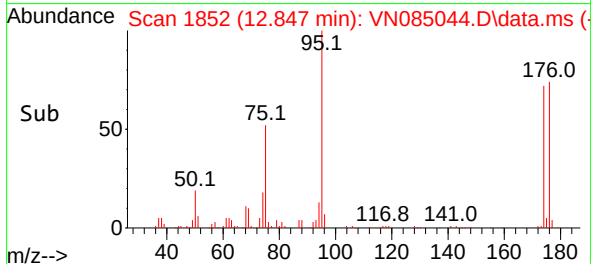
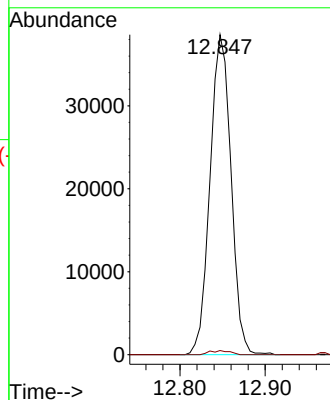
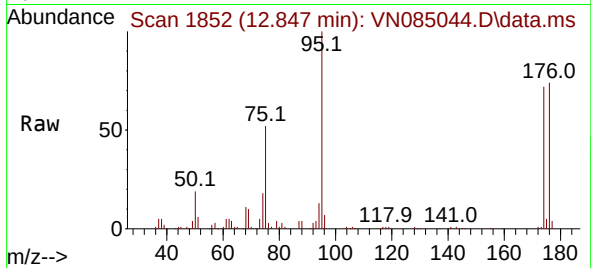




#76
1,2,3-Trichloropropane
Concen: 33.066 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

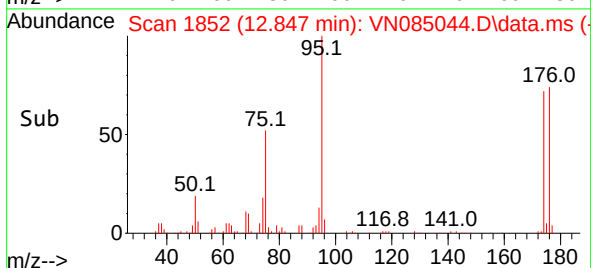
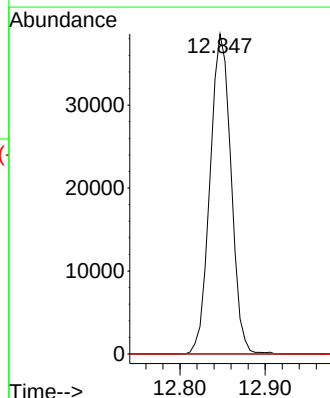
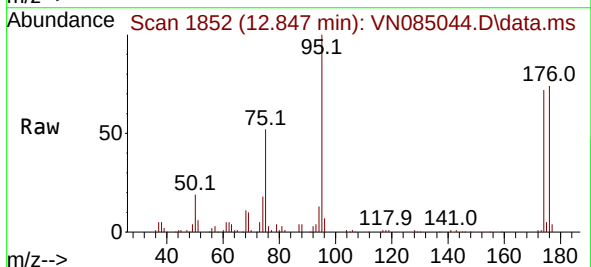
Instrument :
MSVOA_N
ClientSampleId :

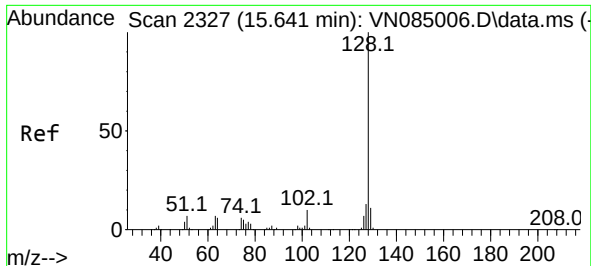
Tgt Ion: 75 Resp: 66022
Ion Ratio Lower Upper
75 100
77 1.2 109.1 327.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion: 75 Resp: 66022
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.4#
89 0.0 37.9 56.9#

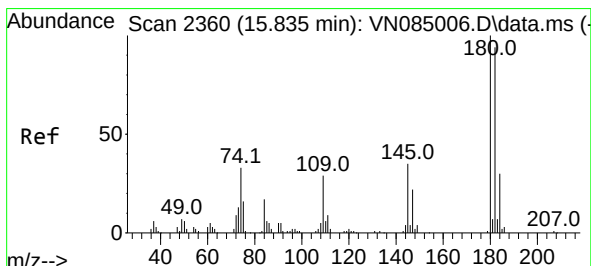
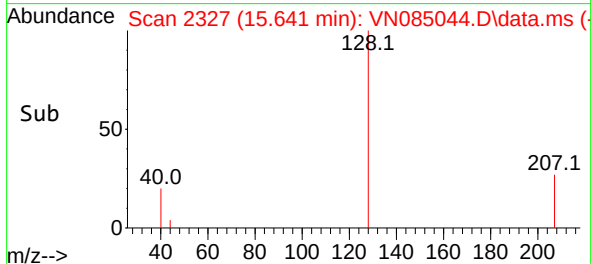
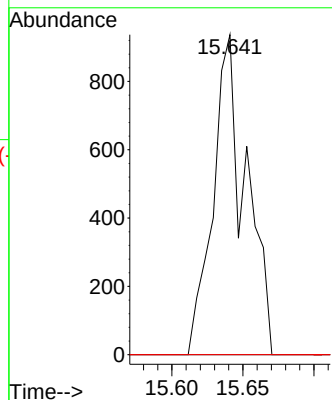
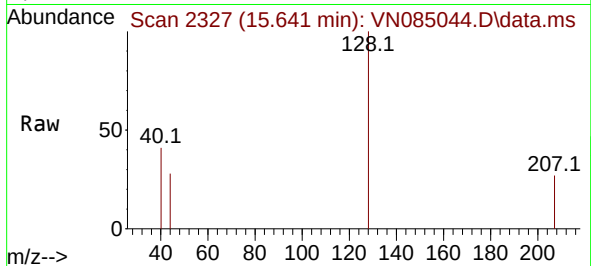




#95
Naphthalene
Concen: 0.246 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 1502
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.203 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085044.D
Acq: 26 Nov 2024 15:47

Tgt Ion:180 Resp: 414
Ion Ratio Lower Upper
180 100
182 63.5 46.4 139.2
145 0.0 17.3 52.0#

