

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084922.D
 Acq On : 18 Nov 2024 16:04
 Operator : JC\MD
 Sample : PB164987TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 00:28:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

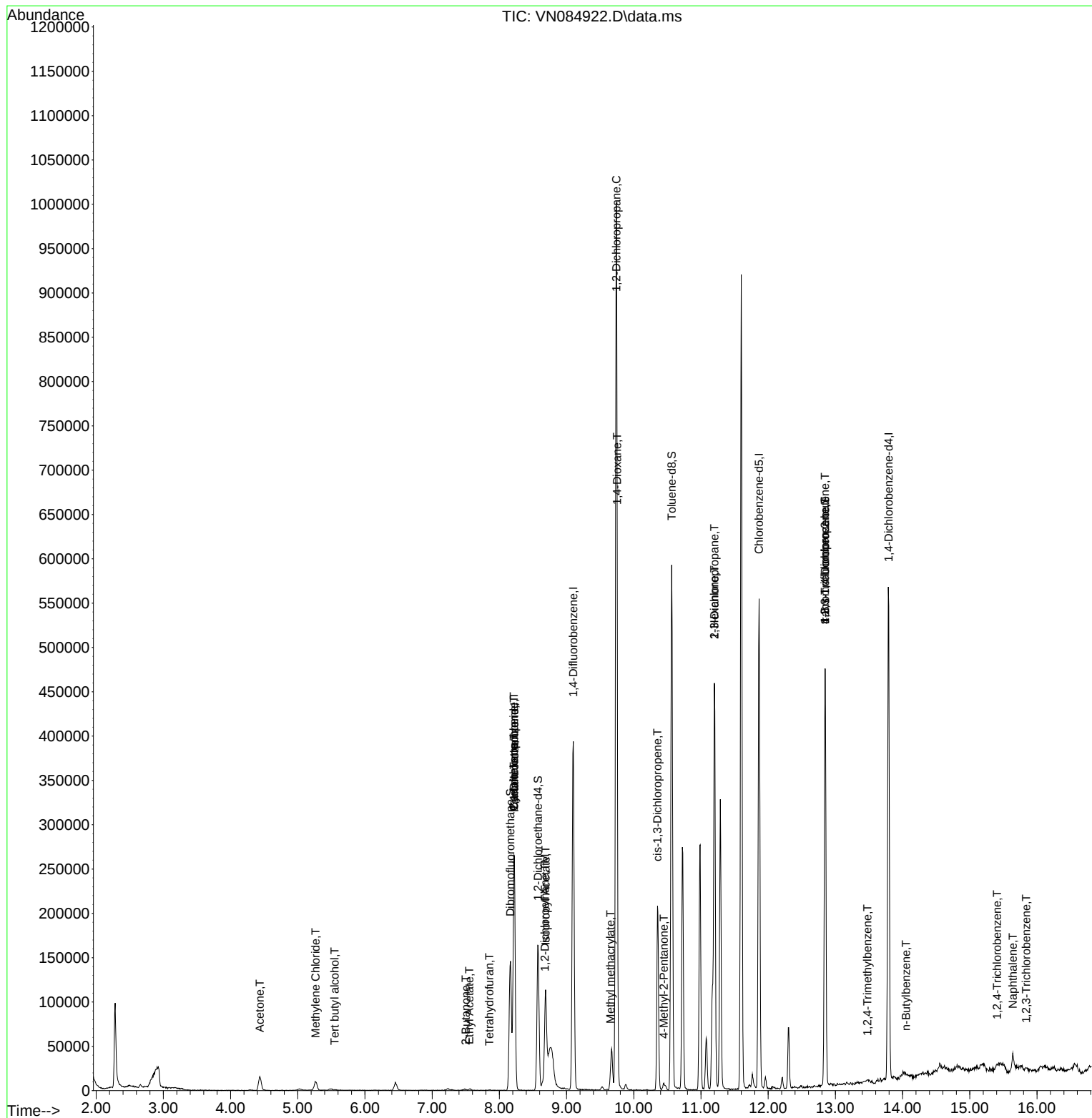
Internal Standards						
1) Pentafluorobenzene	8.224	168	187552	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	342240	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	312344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	150602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135155	49.893	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.780%		
35) Dibromofluoromethane	8.165	113	108179	46.698	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.400%		
50) Toluene-d8	10.565	98	403201	47.250	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.500%		
62) 4-Bromofluorobenzene	12.847	95	169101	53.023	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	609	Below Cal	#	41
6) Chloroethane	3.136	64	370	Below Cal	#	45
11) Tert butyl alcohol	5.547	59	193	0.540	ug/l #	73
16) Acetone	4.436	43	28120	33.466	ug/l	100
18) Methyl Acetate	5.024	43	3682	Below Cal	#	63
20) Methylene Chloride	5.265	84	7842	3.291	ug/l #	74
25) 2-Butanone	7.500	43	2588	2.048	ug/l #	85
29) Tetrahydrofuran	7.853	42	502	0.599	ug/l #	42
31) Cyclohexane	8.218	56	4346	1.162	ug/l #	20
36) 1,1-Dichloropropene	8.218	75	16323	5.081	ug/l #	50
37) Ethyl Acetate	7.553	43	2900	0.995	ug/l #	76
38) Carbon Tetrachloride	8.218	117	20688	5.761	ug/l #	15
42) 1,2-Dichloroethane	8.677	62	696	0.208	ug/l #	75
43) Isopropyl Acetate	8.688	43	151682	27.737	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	1165	0.481	ug/l #	44
48) Methyl methacrylate	9.653	41	3491	1.539	ug/l #	13
49) 1,4-Dioxane	9.753	88	62	1.542	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	4863	1.750	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	39366	9.981	ug/l #	62
57) 1,3-Dichloropropane	11.200	76	4661	1.195	ug/l #	42
59) 2-Hexanone	11.200	43	57412	28.385	ug/l #	56
76) 1,2,3-Trichloropropane	12.847	75	90282	29.989	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90282	71.147	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.476	105	1892	0.210	ug/l	86
88) 1,4-Dichlorobenzene	13.735	146	782	Below Cal		82
89) n-Butylbenzene	14.053	91	2447	0.312	ug/l #	60
93) 1,2,4-Trichlorobenzene	15.406	180	648	0.223	ug/l #	90
95) Naphthalene	15.641	128	14076	1.615	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	707	0.250	ug/l #	69

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

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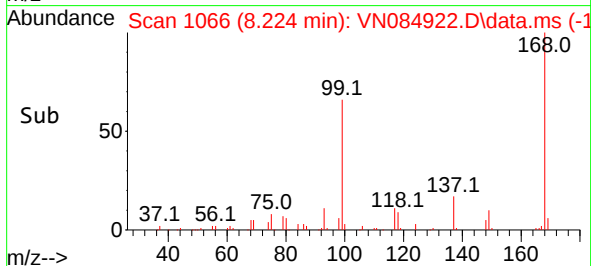
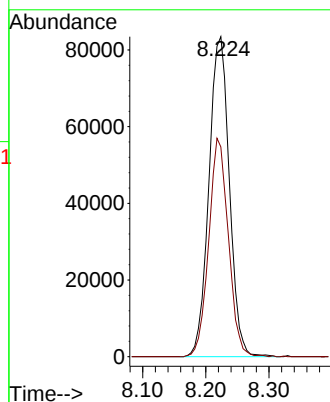
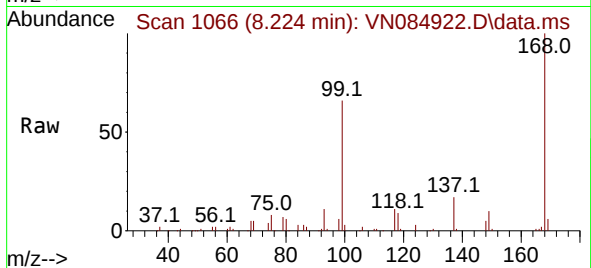




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

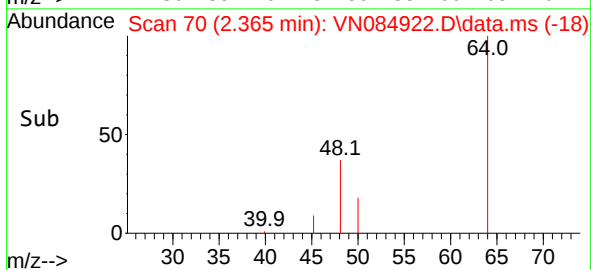
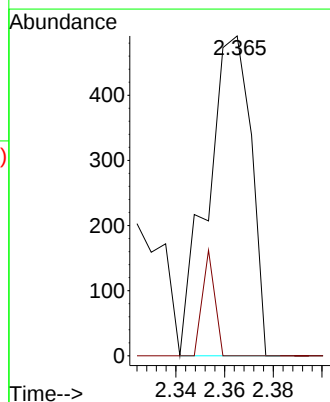
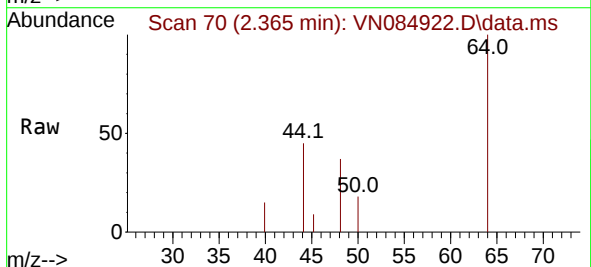
Instrument :
MSVOA_N
ClientSampleId :

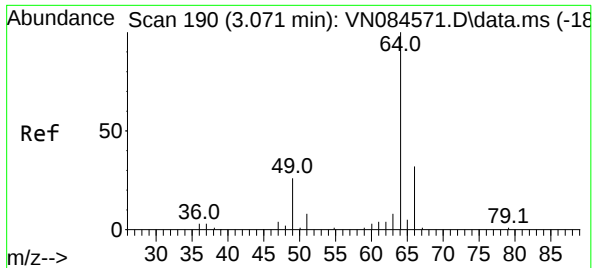
Tgt Ion:168 Resp: 187552
Ion Ratio Lower Upper
168 100
99 65.5 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion: 50 Resp: 609
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

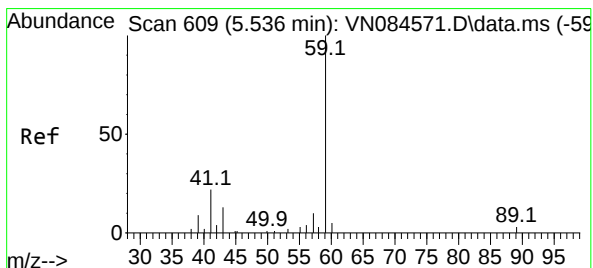
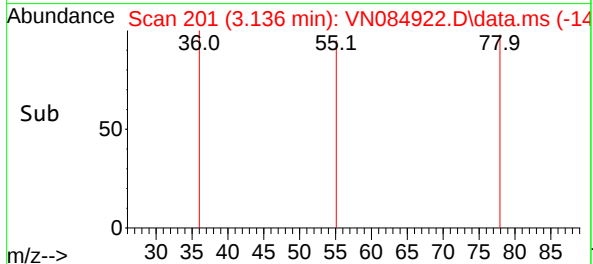
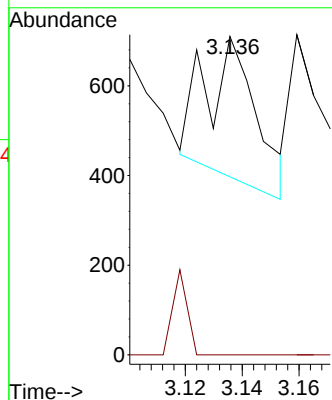
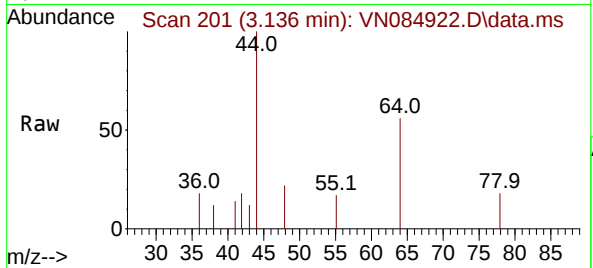




#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 20
Delta R.T. 0.018 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

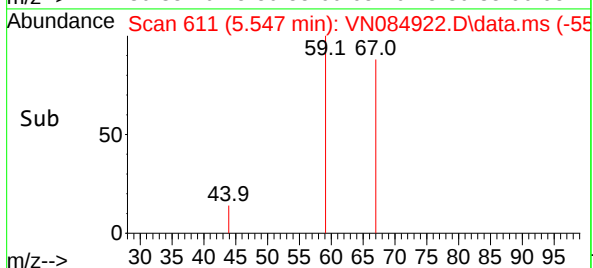
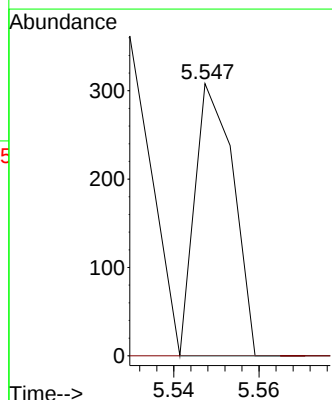
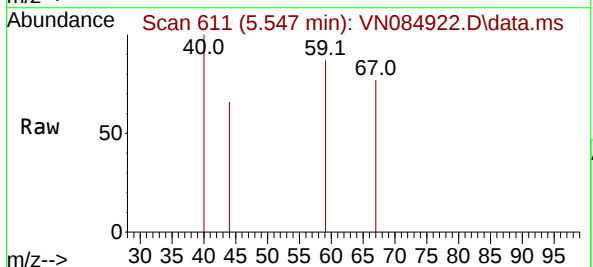
Instrument :
MSVOA_N
ClientSampleId :

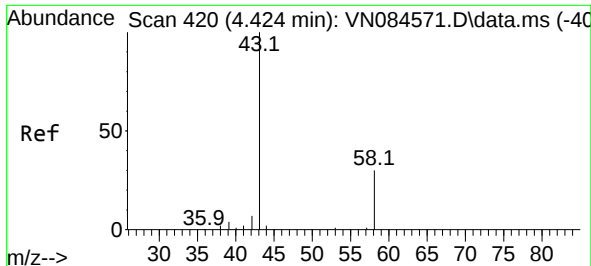
Tgt Ion: 64 Resp: 370
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 0.540 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.023 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion: 59 Resp: 193
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

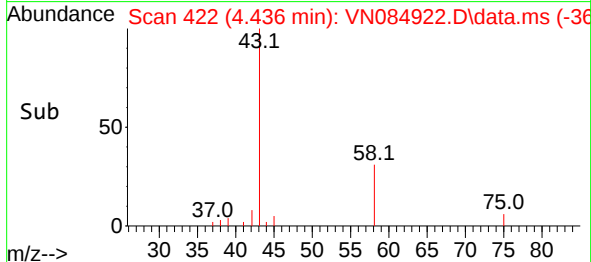
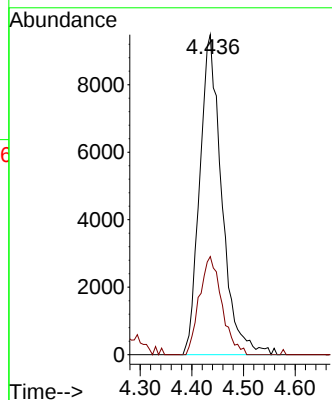
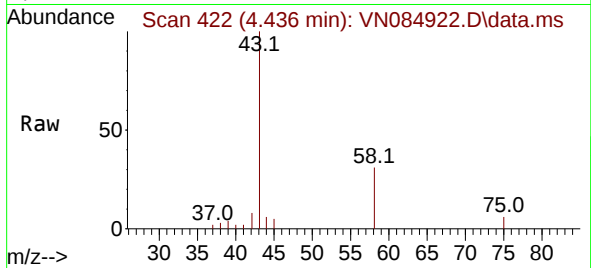




#16
Acetone
Concen: 33.466 ug/l
RT: 4.436 min Scan# 431
Delta R.T. 0.012 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

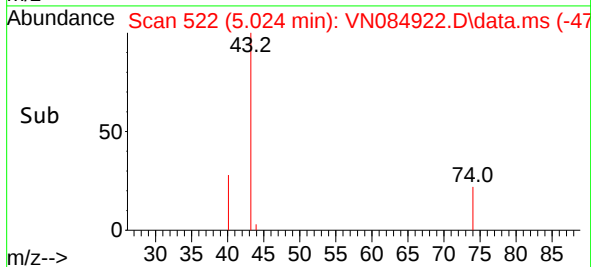
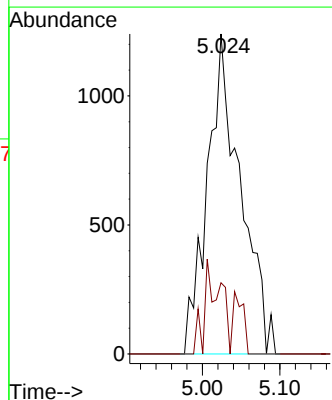
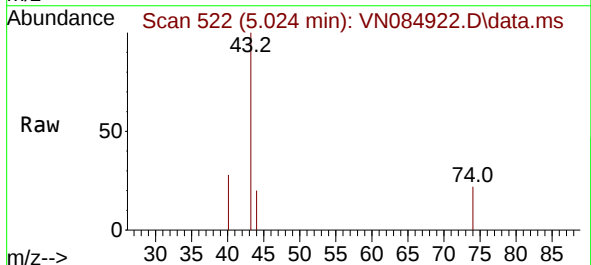
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43 Resp: 28120
Ion Ratio Lower Upper
43 100
58 30.6 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

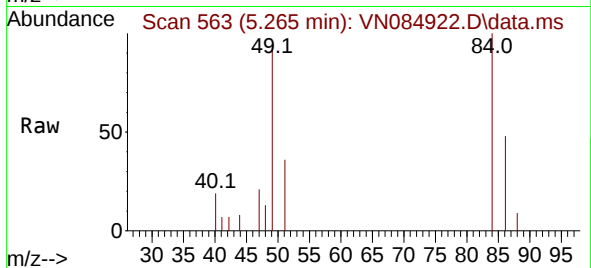
Tgt Ion: 43 Resp: 3682
Ion Ratio Lower Upper
43 100
74 5.9 19.2 28.8#



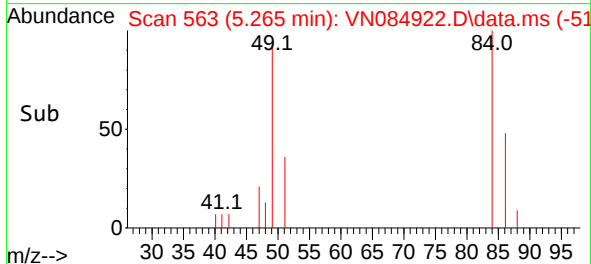
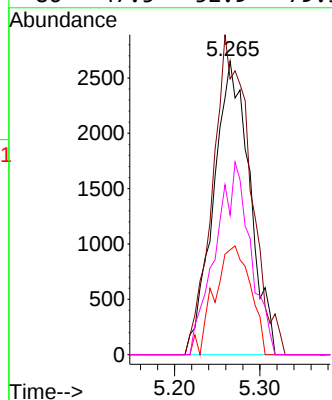


#20
Methylene Chloride
Concen: 3.291 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Instrument :
MSVOA_N
ClientSampleId :

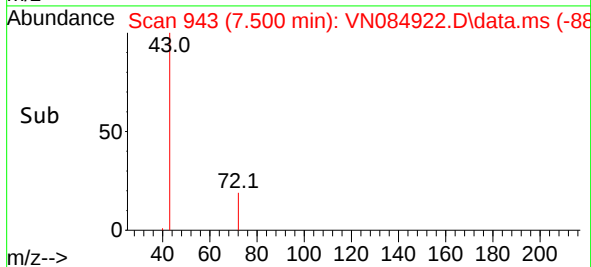
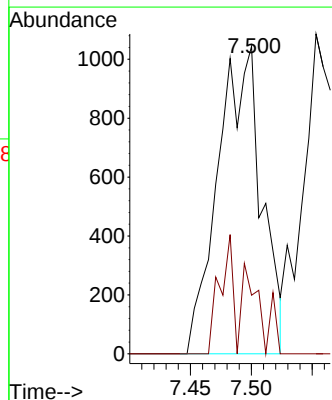
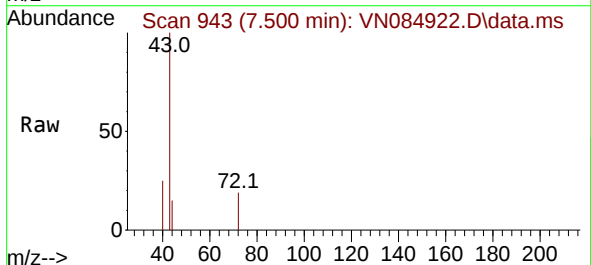


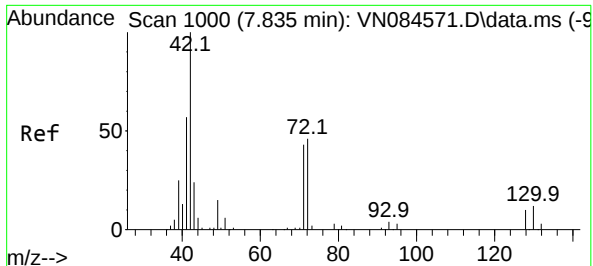
Tgt Ion:	84	Resp:	7842
Ion	Ratio	Lower	Upper
84	100		
49	93.9	107.2	160.8#
51	35.7	31.8	47.8
86	47.5	52.9	79.3#



#25
2-Butanone
Concen: 2.048 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.018 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion:	43	Resp:	2588
Ion	Ratio	Lower	Upper
43	100		
72	19.1	21.4	32.2#





#29

Tetrahydrofuran

Concen: 0.599 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

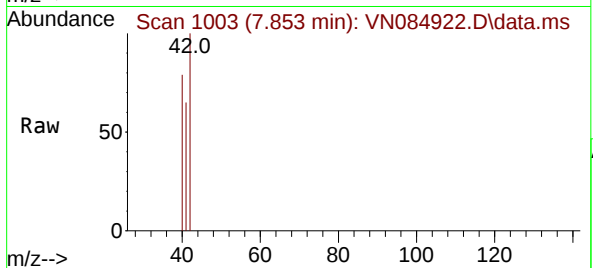
Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

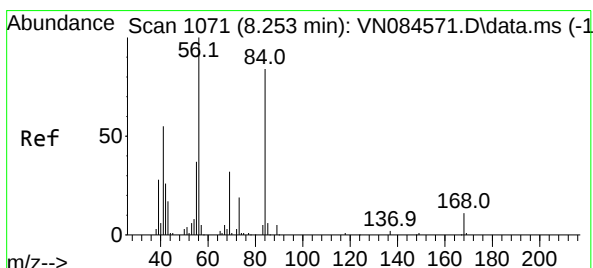
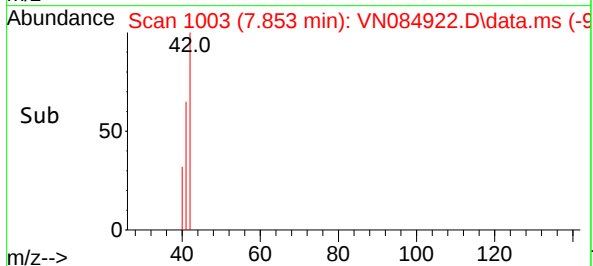
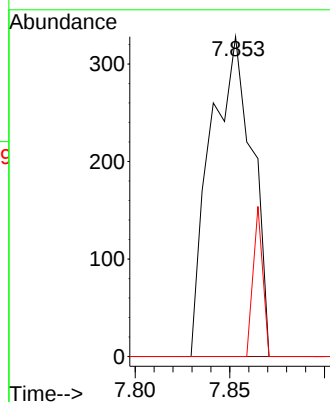
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	502
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.6	51.8#
71	10.8	32.2	48.4#



#31

Cyclohexane

Concen: 1.162 ug/l

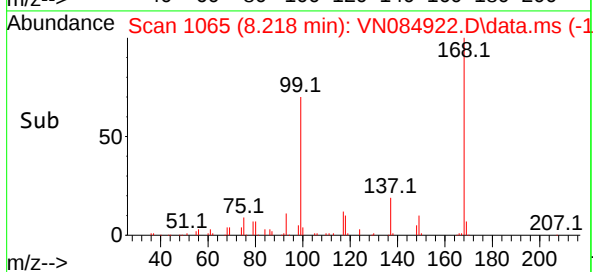
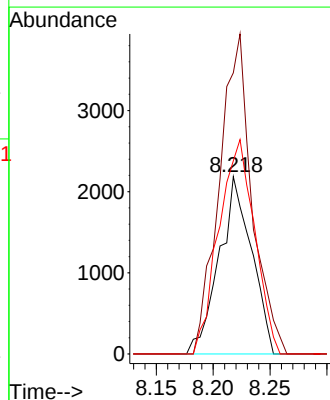
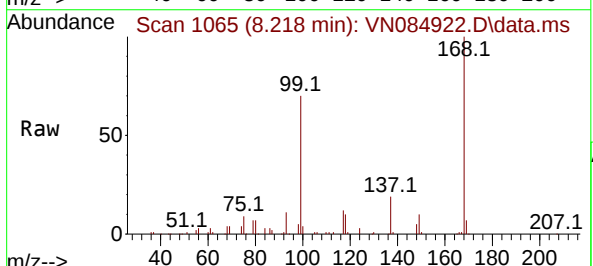
RT: 8.218 min Scan# 1065

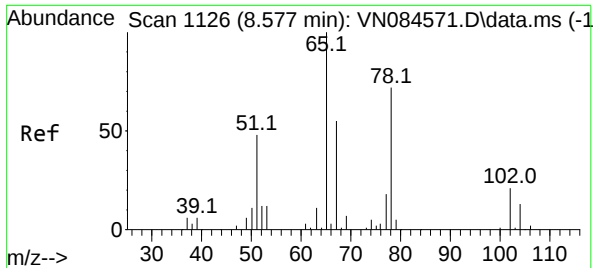
Delta R.T. -0.035 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Tgt Ion:	56	Resp:	4346
Ion	Ratio	Lower	Upper
56	100		
69	158.5	23.8	35.6#
84	108.9	68.8	103.2#

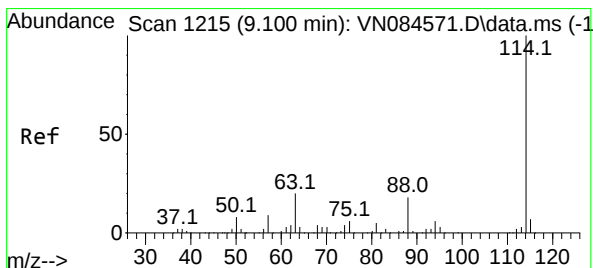
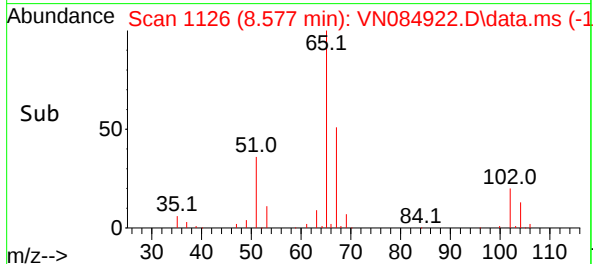
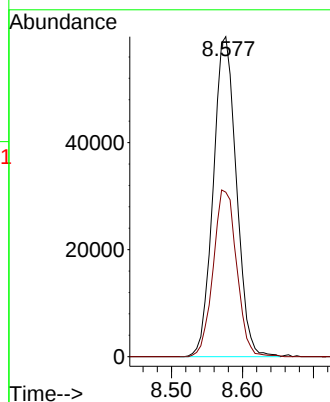
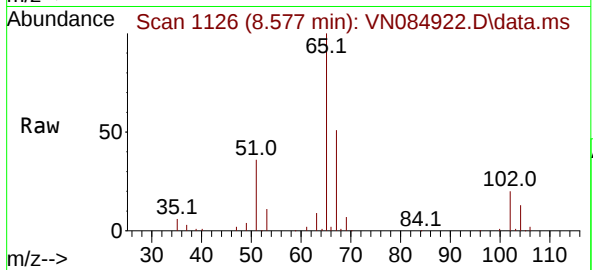




#33
 1,2-Dichloroethane-d4
 Concen: 49.893 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN084922.D
 Acq: 18 Nov 2024 16:04

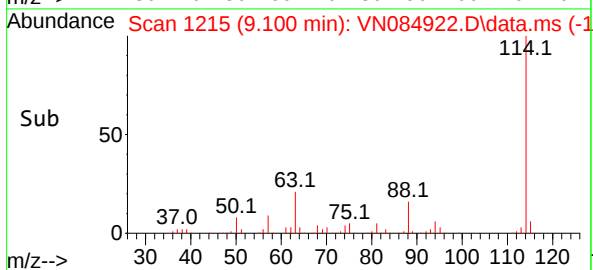
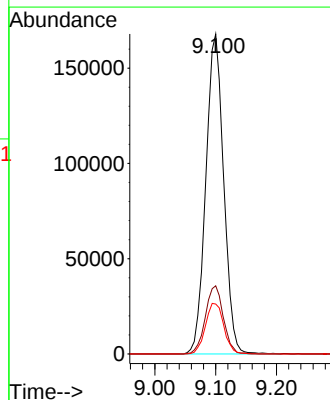
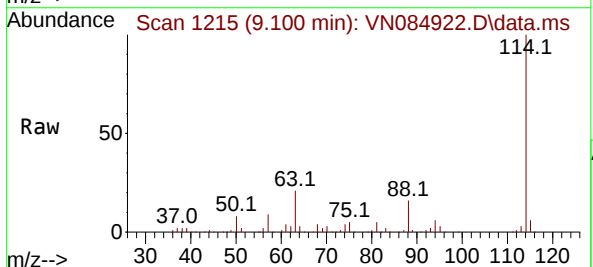
Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 65 Resp: 135155
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN084922.D
 Acq: 18 Nov 2024 16:04

Tgt Ion: 114 Resp: 342240
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.8
 88 15.6 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.698 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

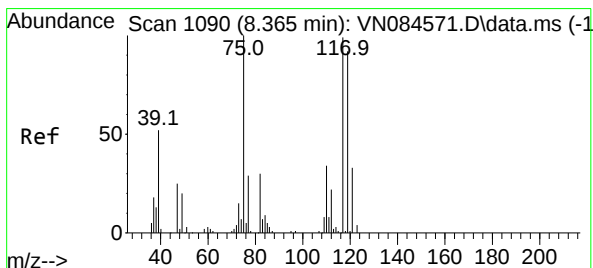
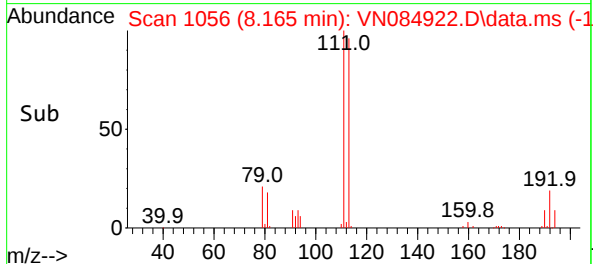
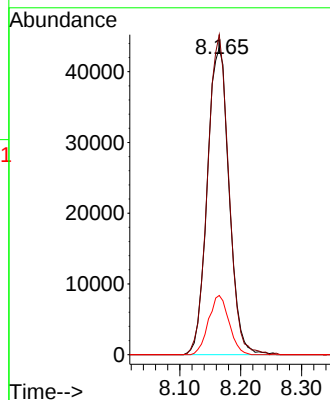
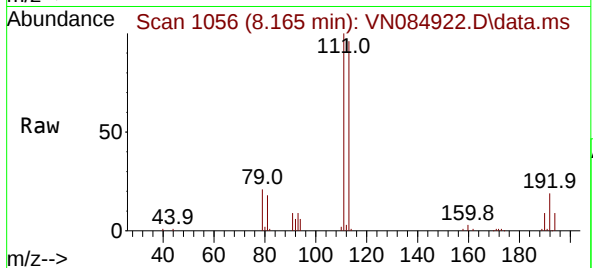
Tgt Ion:113 Resp: 108179

Ion Ratio Lower Upper

113 100

111 101.0 83.3 124.9

192 18.1 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.081 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

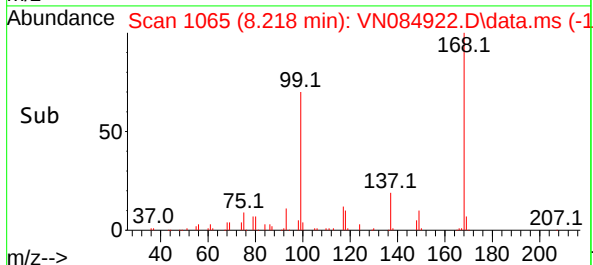
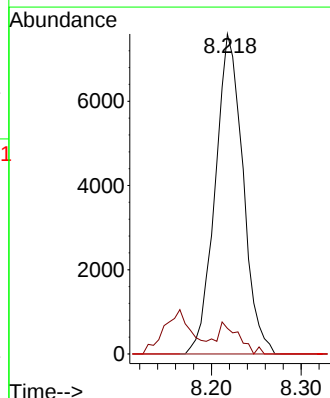
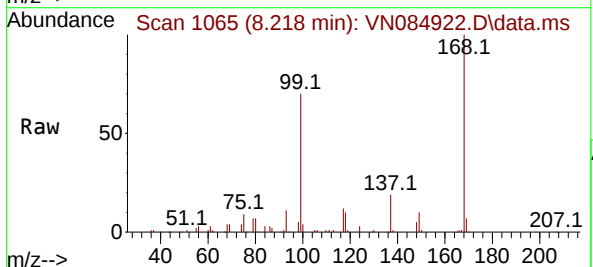
Tgt Ion: 75 Resp: 16323

Ion Ratio Lower Upper

75 100

110 8.0 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.995 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

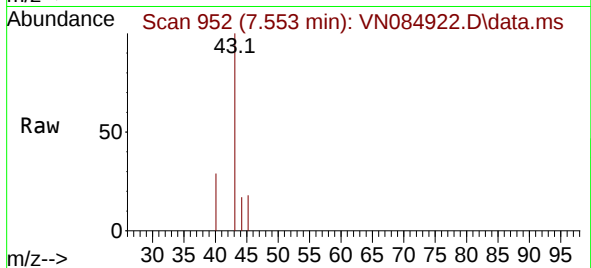
Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

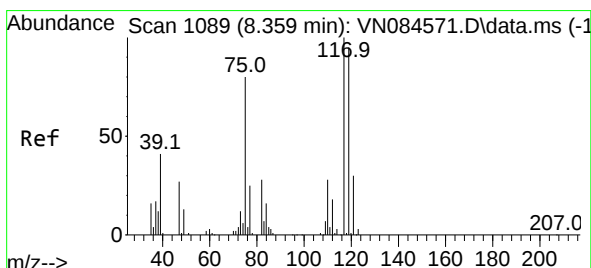
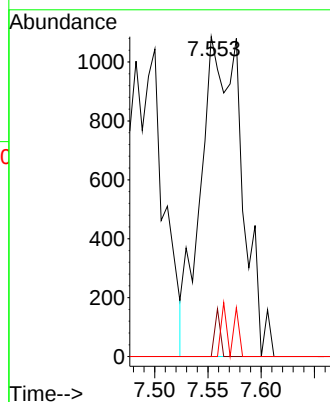
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2900
Ion	Ratio	Lower	Upper
43	100		
61	2.0	10.7	16.1#
70	4.2	8.8	13.2#



#38

Carbon Tetrachloride

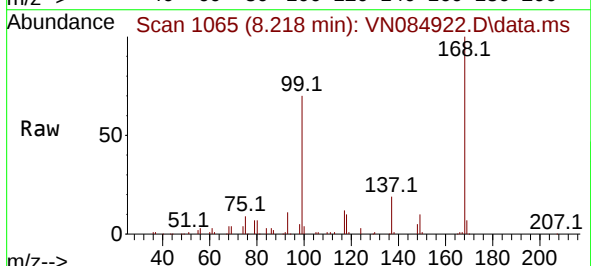
Concen: 5.761 ug/l

RT: 8.218 min Scan# 1065

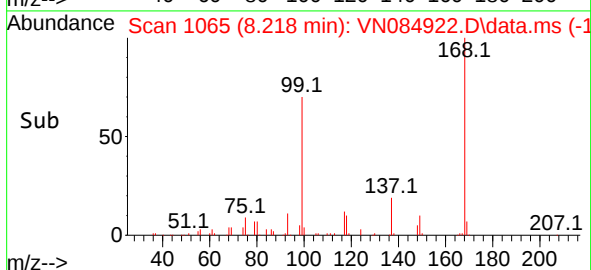
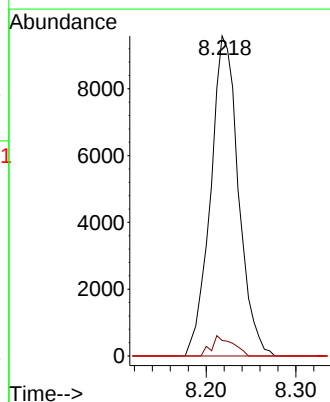
Delta R.T. -0.141 min

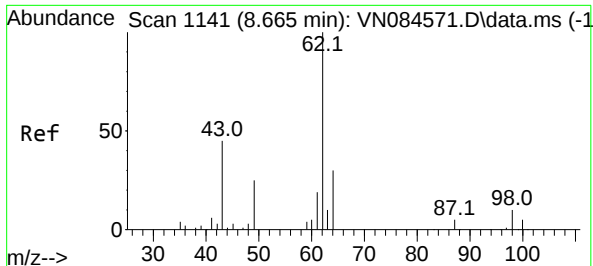
Lab File: VN084922.D

Acq: 18 Nov 2024 16:04



Tgt Ion:	117	Resp:	20688
Ion	Ratio	Lower	Upper
117	100		
119	4.8	78.7	118.1#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.208 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

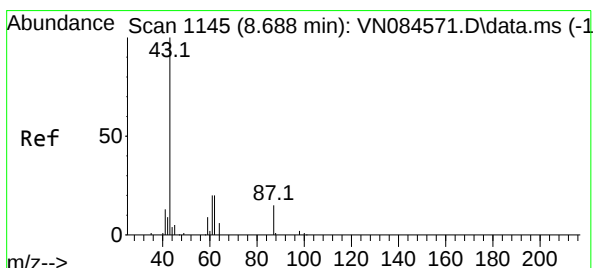
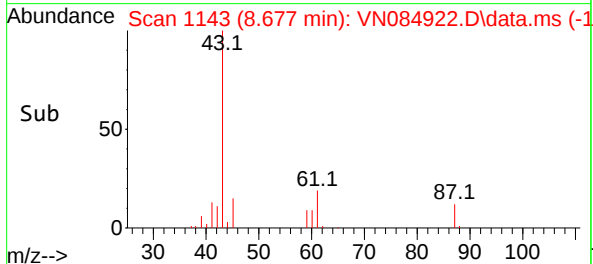
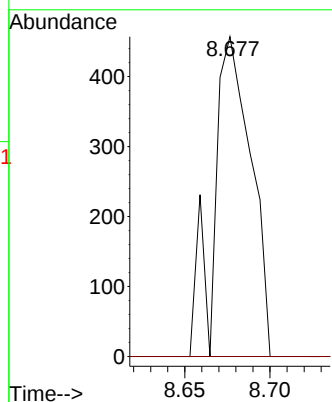
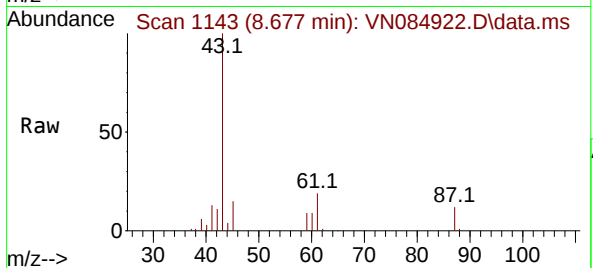
ClientSampleId :

Tgt Ion: 62 Resp: 696

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 27.737 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

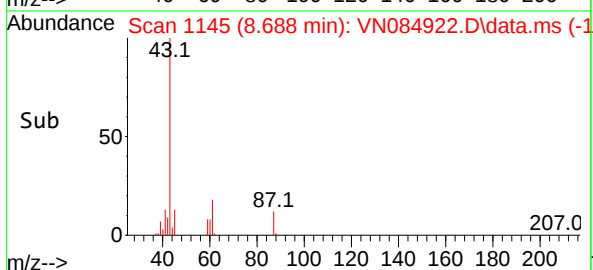
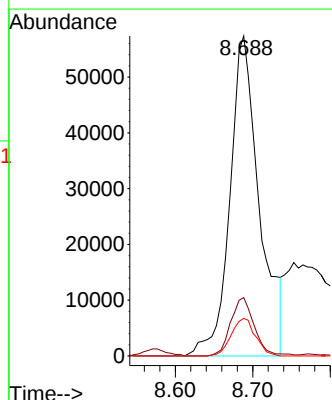
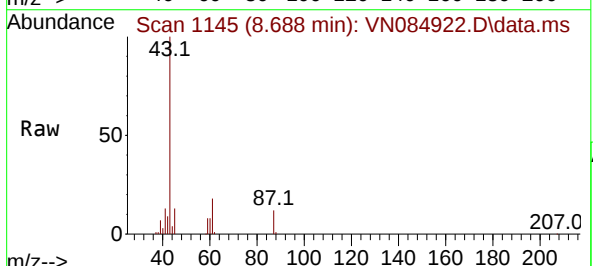
Tgt Ion: 43 Resp: 151682

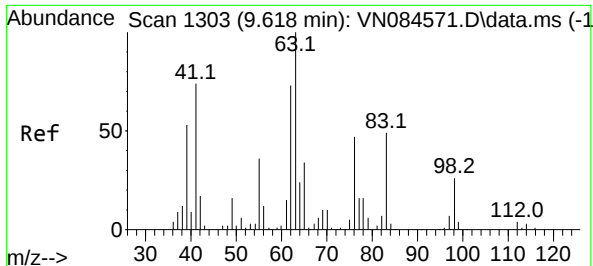
Ion Ratio Lower Upper

43 100

61 14.7 20.4 30.6#

87 9.6 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.481 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

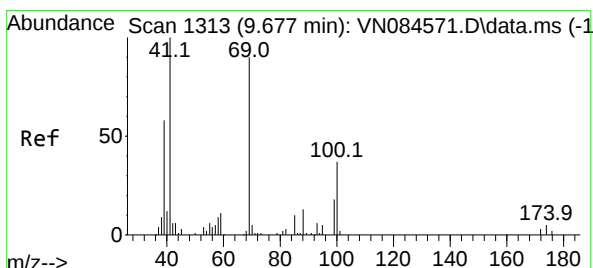
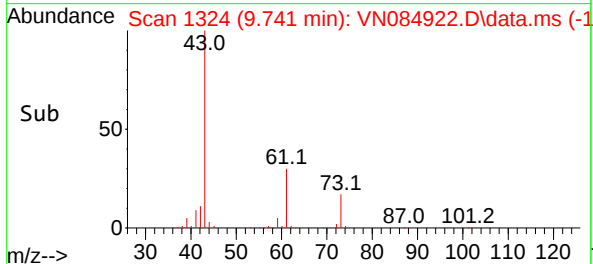
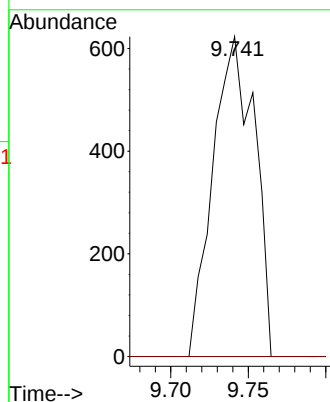
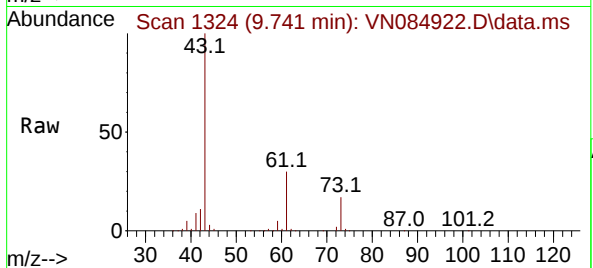
ClientSampleId :

Tgt Ion: 63 Resp: 1165

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.539 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

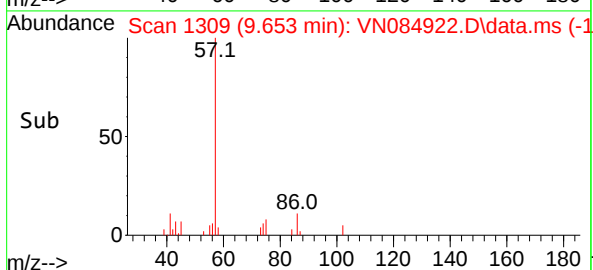
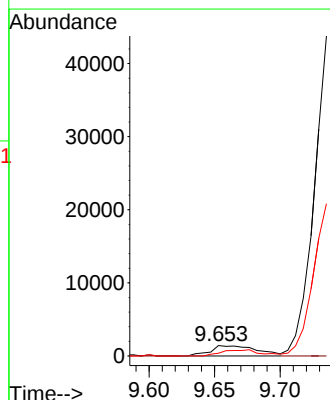
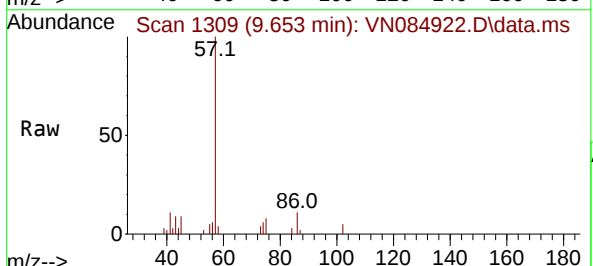
Tgt Ion: 41 Resp: 3491

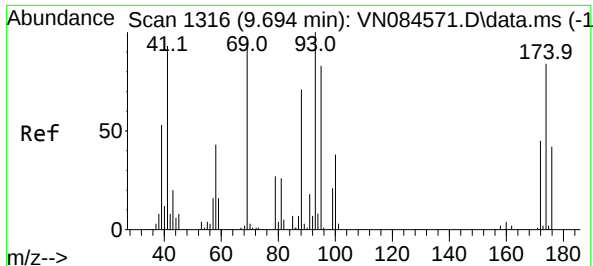
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 0.0 45.8 68.6#





#49

1,4-Dioxane

Concen: 1.542 ug/l

RT: 9.753 min Scan# 1316

Delta R.T. 0.059 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

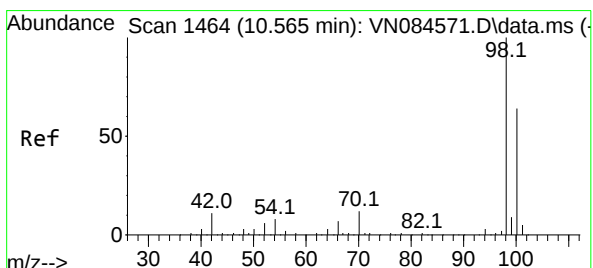
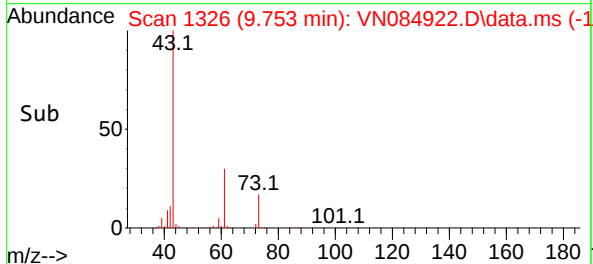
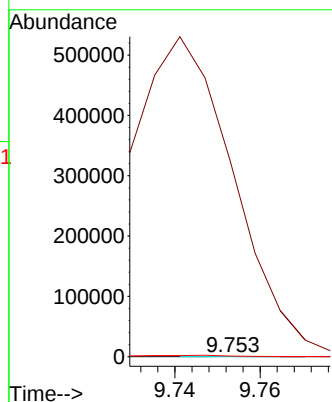
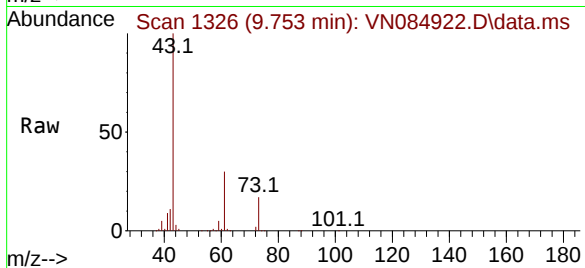
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 1539227.4 25.3 37.9#

58 6483.9 56.4 84.6#



#50

Toluene-d8

Concen: 47.250 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084922.D

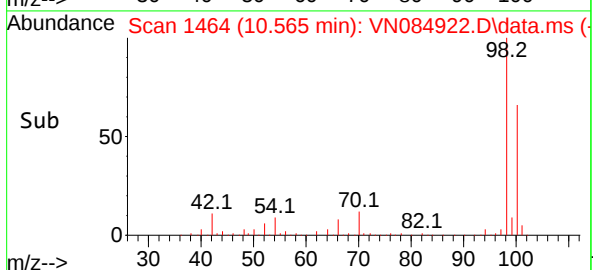
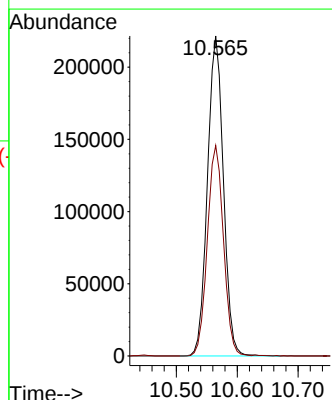
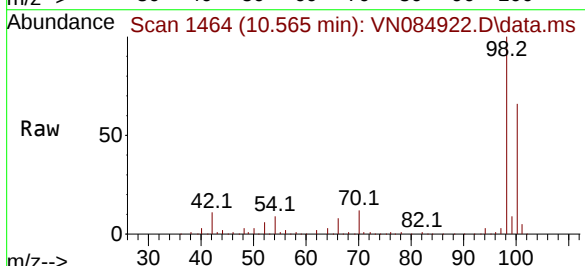
Acq: 18 Nov 2024 16:04

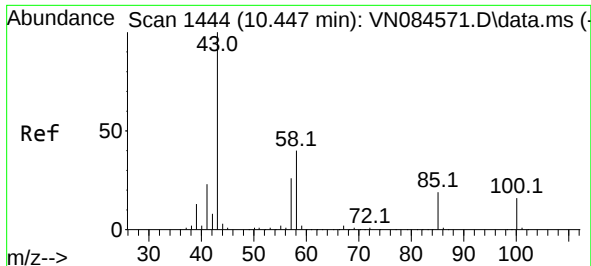
Tgt Ion: 98 Resp: 403201

Ion Ratio Lower Upper

98 100

100 66.6 52.7 79.1

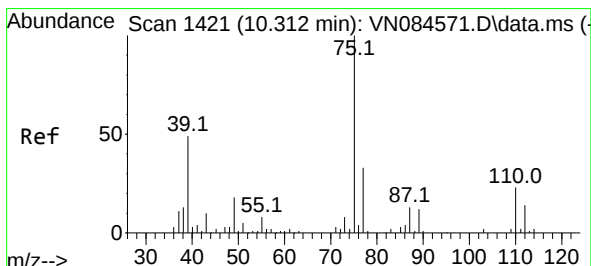
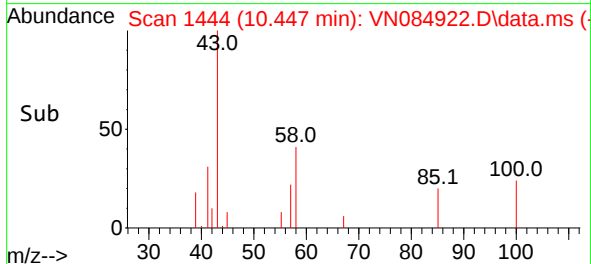
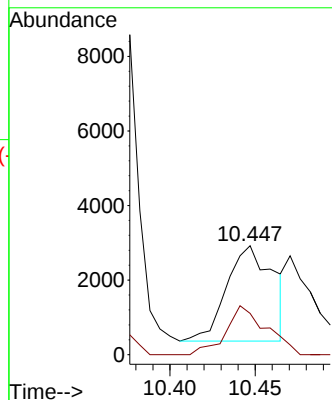
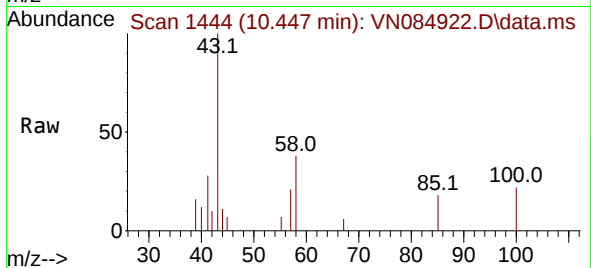




#51
4-Methyl-2-Pentanone
Concen: 1.750 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

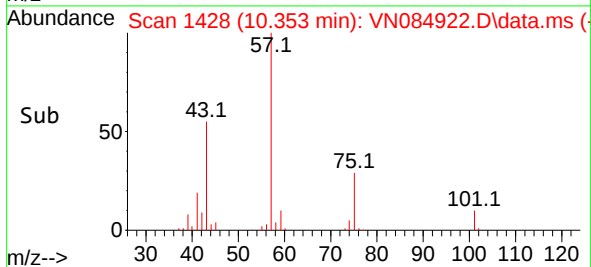
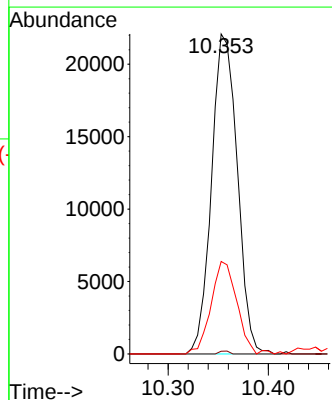
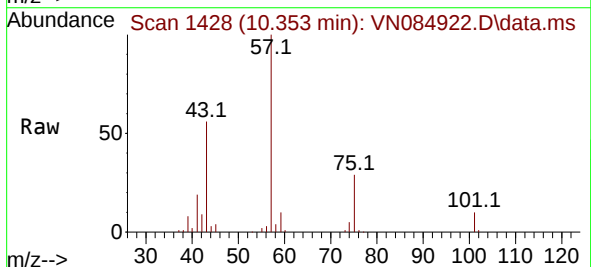
Instrument :
MSVOA_N
ClientSampleId :

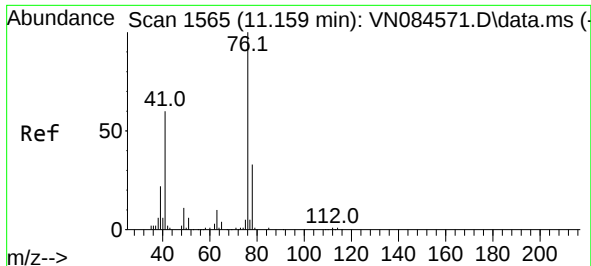
Tgt Ion: 43 Resp: 4863
Ion Ratio Lower Upper
43 100
58 44.7 31.6 47.4



#54
cis-1,3-Dichloropropene
Concen: 9.981 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion: 75 Resp: 39366
Ion Ratio Lower Upper
75 100
77 0.8 24.2 36.2#
39 28.9 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 1.195 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

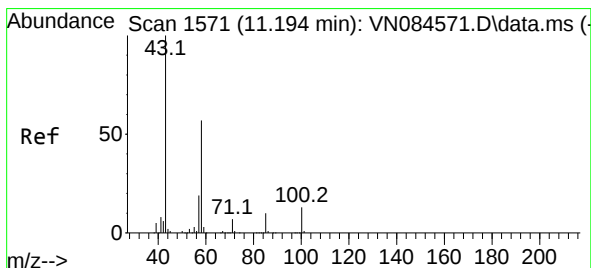
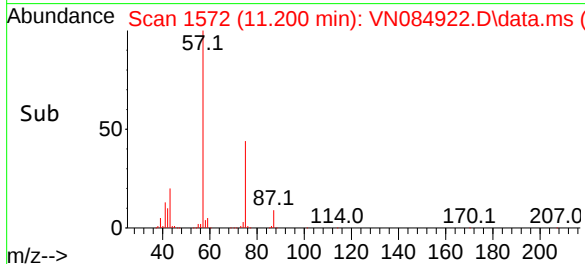
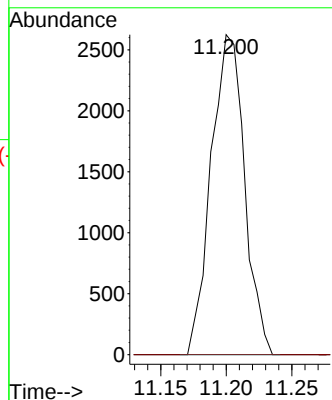
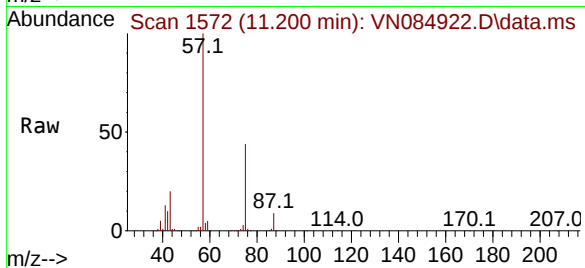
ClientSampleId :

Tgt Ion: 76 Resp: 4661

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 28.385 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084922.D

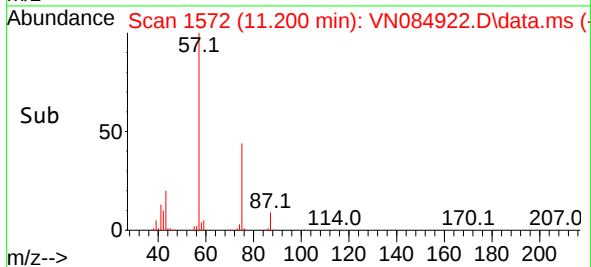
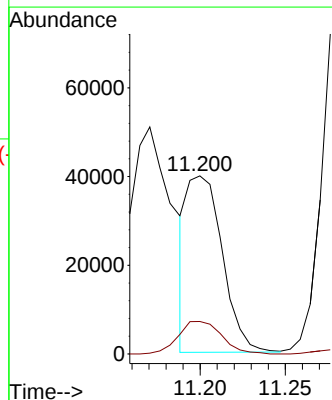
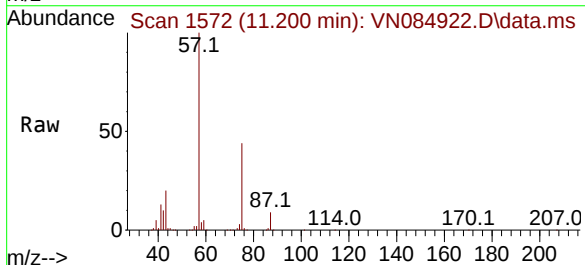
Acq: 18 Nov 2024 16:04

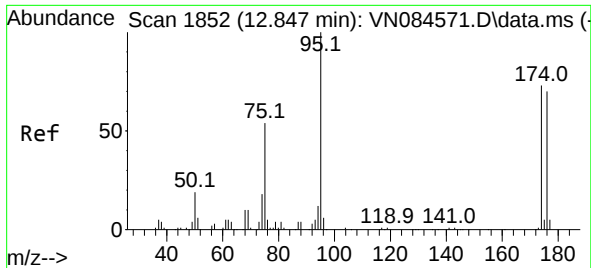
Tgt Ion: 43 Resp: 57412

Ion Ratio Lower Upper

43 100

58 22.8 27.3 81.8#

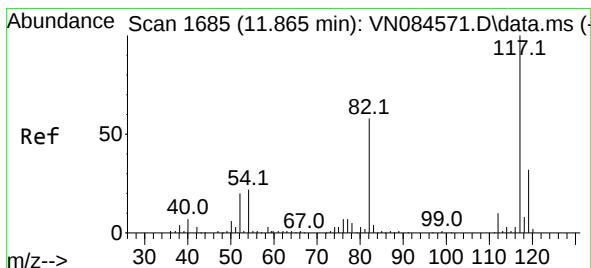
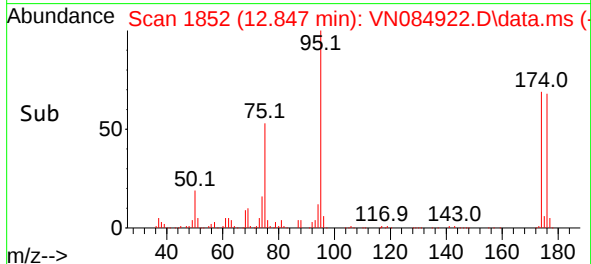
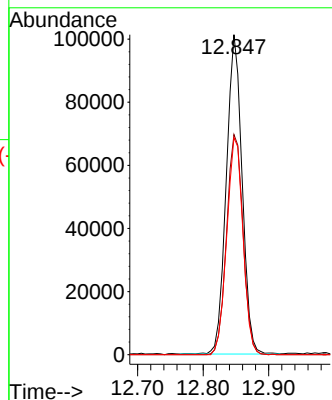
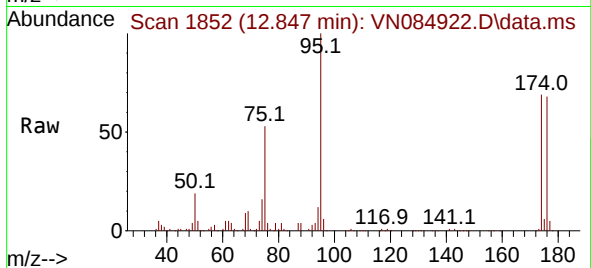




#62
4-Bromofluorobenzene
Concen: 53.023 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

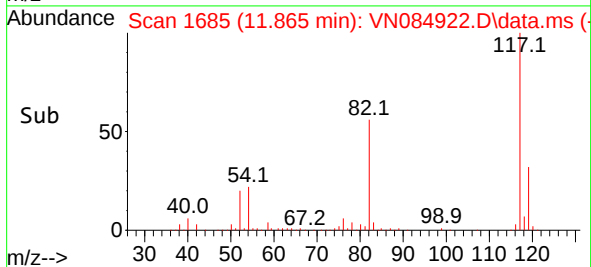
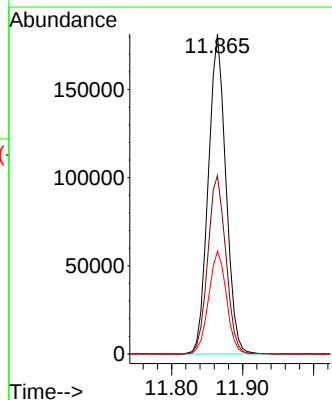
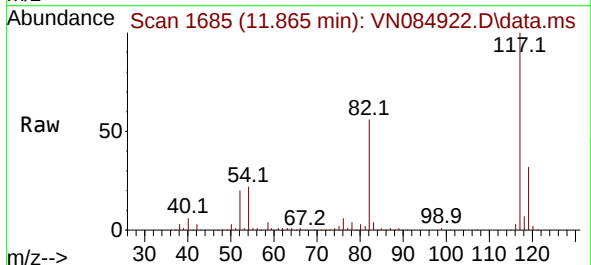
Instrument :
MSVOA_N
ClientSampleId :

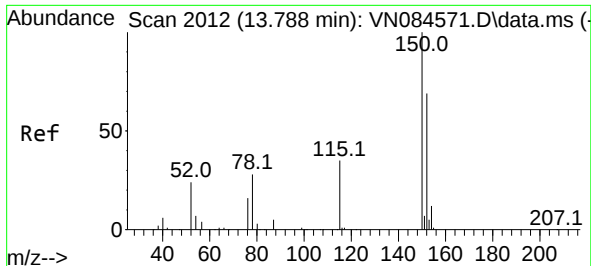
Tgt Ion: 95 Resp: 169101
Ion Ratio Lower Upper
95 100
174 71.6 0.0 145.2
176 69.6 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion: 117 Resp: 312344
Ion Ratio Lower Upper
117 100
82 55.7 47.2 70.8
119 32.2 25.4 38.0

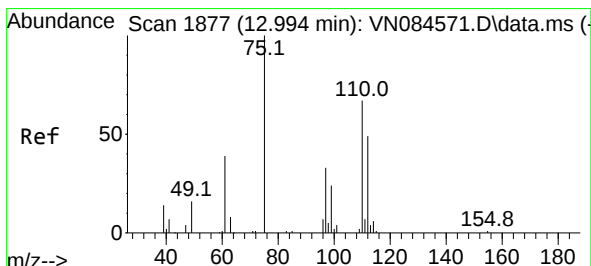
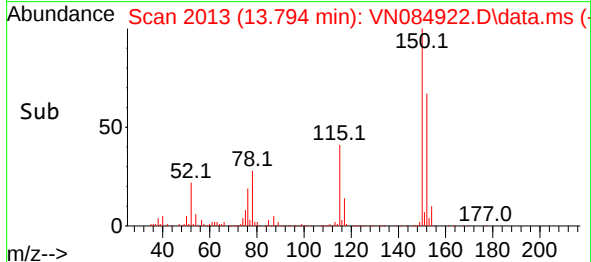
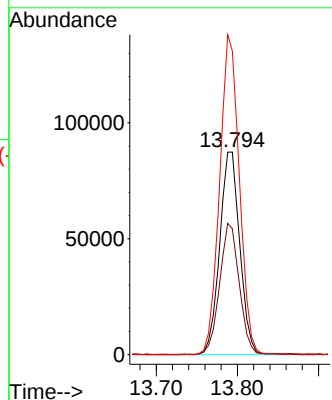
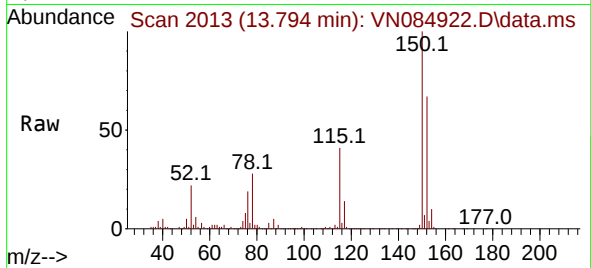




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN084922.D
 Acq: 18 Nov 2024 16:04

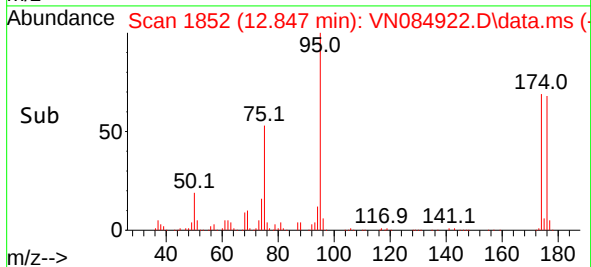
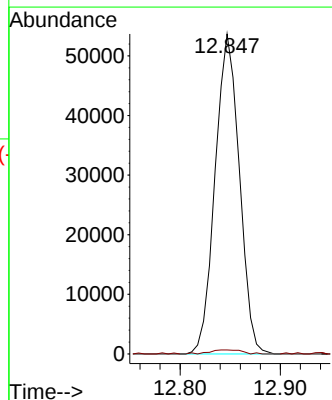
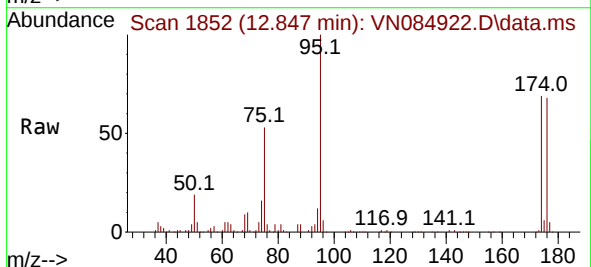
Instrument :
 MSVOA_N
 ClientSampleId :

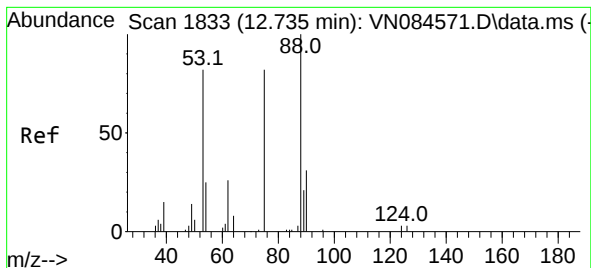
Tgt Ion:152 Resp: 150602
 Ion Ratio Lower Upper
 152 100
 115 62.6 31.3 93.9
 150 154.9 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 29.989 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN084922.D
 Acq: 18 Nov 2024 16:04

Tgt Ion: 75 Resp: 90282
 Ion Ratio Lower Upper
 75 100
 77 1.7 96.9 290.7#

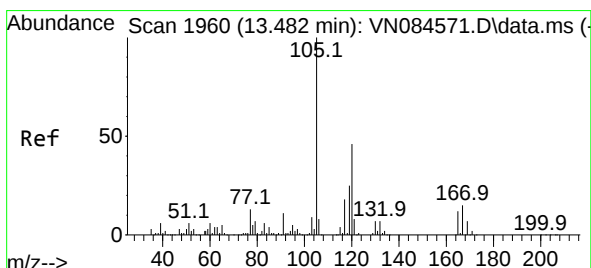
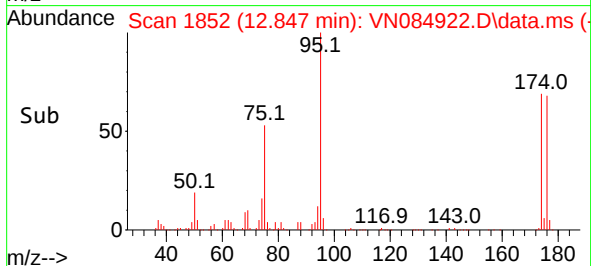
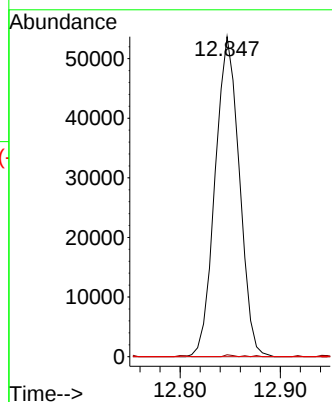
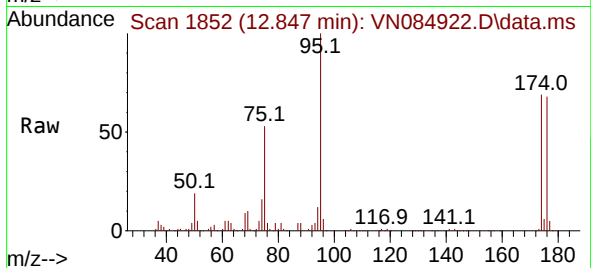




#81
trans-1,4-Dichloro-2-butene
Concen: 71.147 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

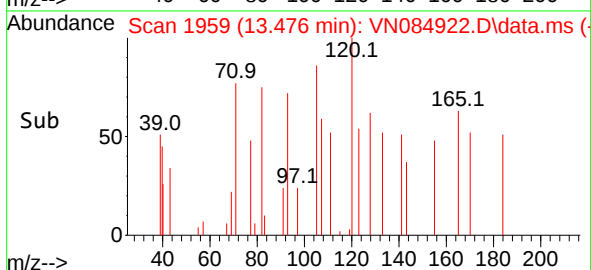
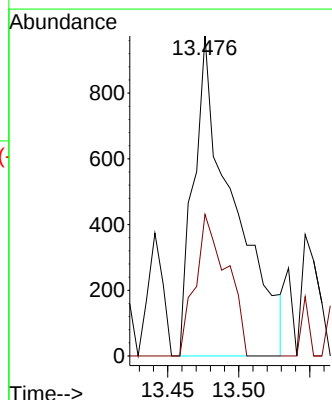
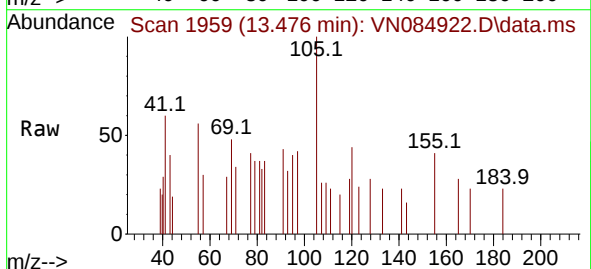
Instrument :
MSVOA_N
ClientSampleId :

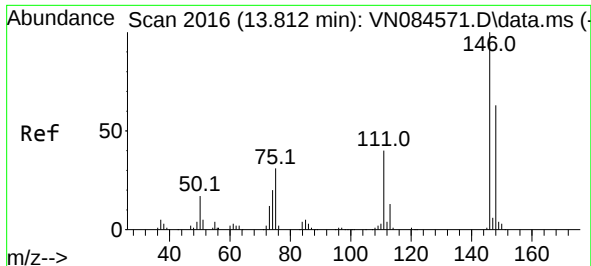
Tgt Ion: 75 Resp: 90282
Ion Ratio Lower Upper
75 100
53 0.2 78.0 117.0#
89 0.0 35.5 53.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.210 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

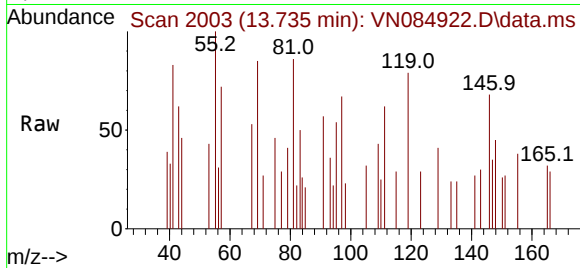
Tgt Ion: 105 Resp: 1892
Ion Ratio Lower Upper
105 100
120 35.3 22.3 66.8



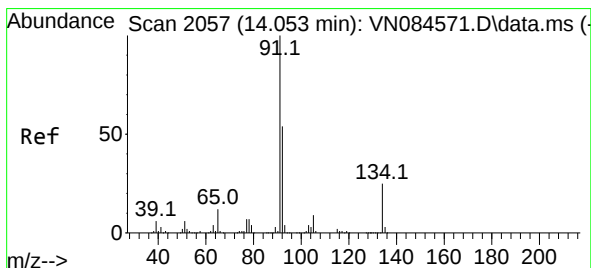
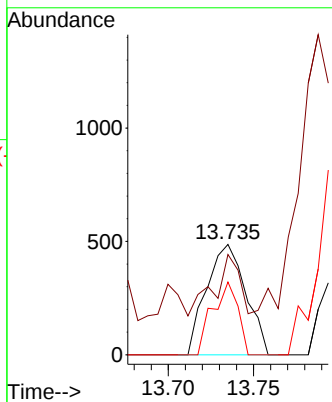
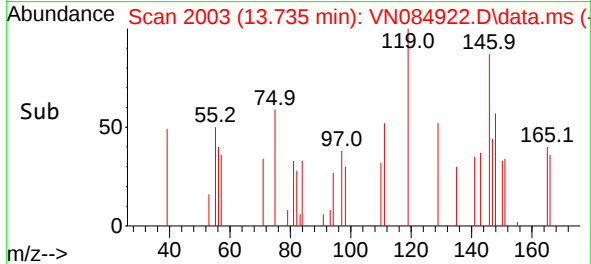


#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.735 min Scan# 2016
Delta R.T. -0.077 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Instrument :
MSVOA_N
ClientSampleId :

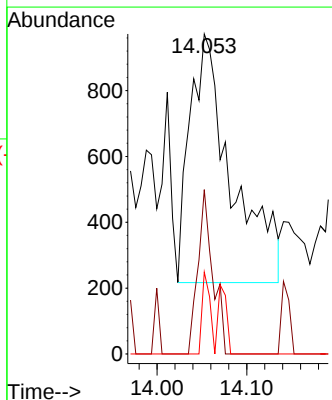
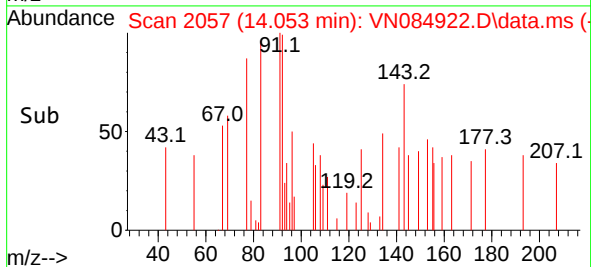
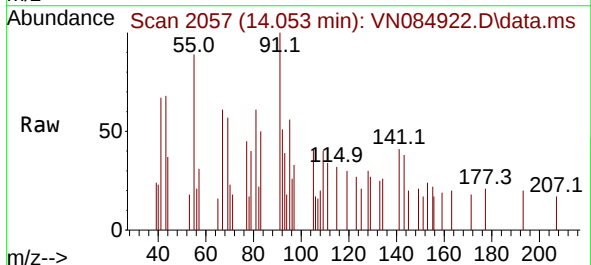


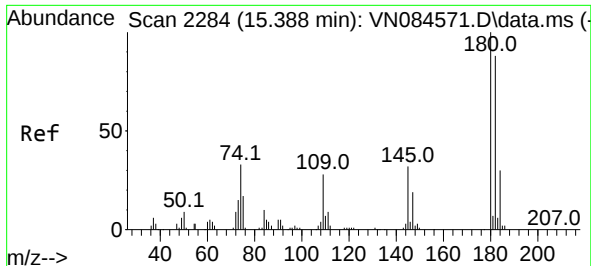
Tgt Ion:146 Resp: 782
Ion Ratio Lower Upper
146 100
111 45.4 21.2 63.6
148 42.5 31.9 95.9



#89
n-Butylbenzene
Concen: 0.312 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN084922.D
Acq: 18 Nov 2024 16:04

Tgt Ion: 91 Resp: 2447
Ion Ratio Lower Upper
91 100
92 23.7 26.6 79.7#
134 6.1 12.3 36.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.223 ug/l

RT: 15.406 min Scan# 21

Delta R.T. 0.018 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

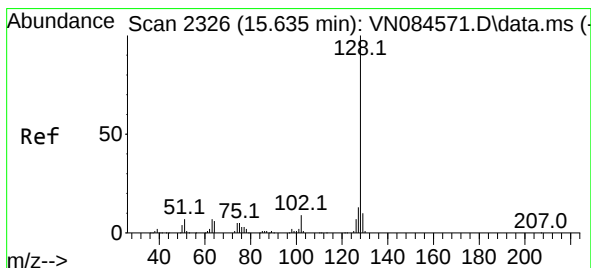
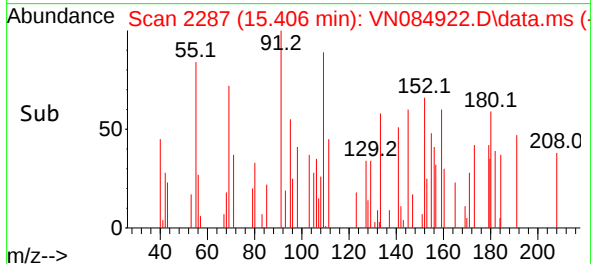
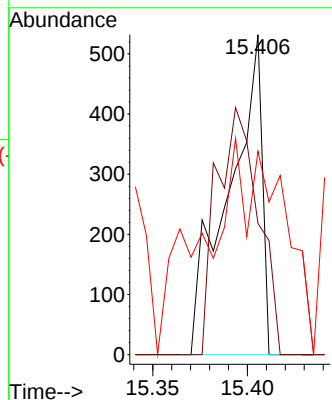
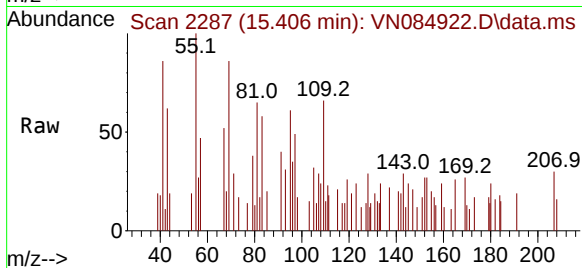
Tgt Ion:180 Resp: 648

Ion Ratio Lower Upper

180 100

182 96.5 47.0 141.0

145 15.7 16.4 49.4#



#95

Naphthalene

Concen: 1.615 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN084922.D

Acq: 18 Nov 2024 16:04

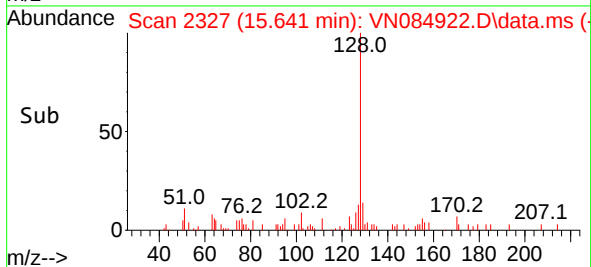
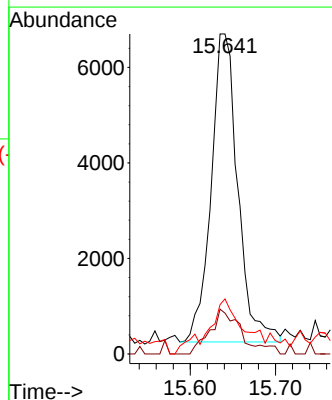
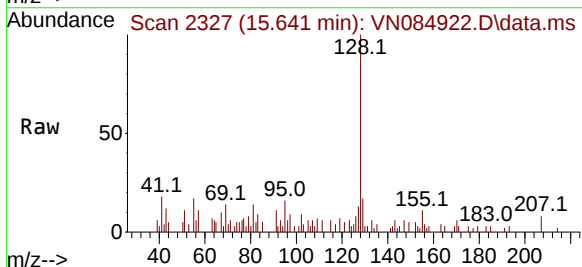
Tgt Ion:128 Resp: 14076

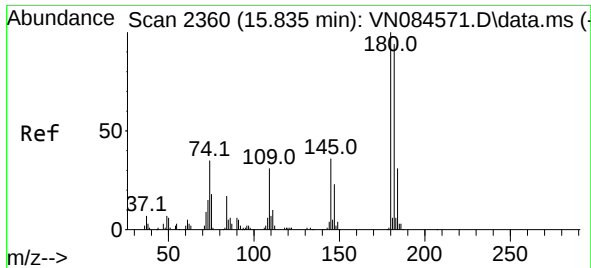
Ion Ratio Lower Upper

128 100

127 17.3 10.5 15.7#

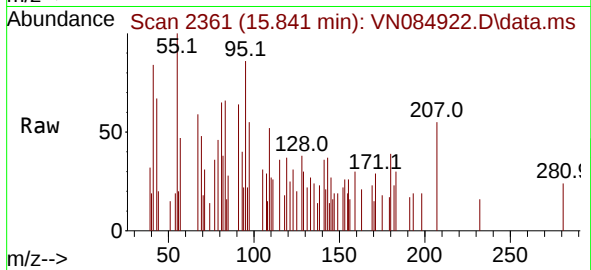
129 14.6 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.250 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN084922.D
 Acq: 18 Nov 2024 16:04

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	707
Ion Ratio	Lower	Upper	
180	100		
182	80.1	48.2	144.6
145	76.4	17.3	51.9#

