

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081624\
 Data File : VN083364.D
 Acq On : 16 Aug 2024 19:18
 Operator : JC\MD
 Sample : P3629-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 01:54:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	131574	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	265720	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	131773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	111684	59.635	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 119.260%	
35) Dibromofluoromethane	8.171	113	88603	53.421	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.840%	
50) Toluene-d8	10.565	98	334969	54.142	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 108.280%	
62) 4-Bromofluorobenzene	12.847	95	139907	58.005	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 116.000%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	342	0.879	ug/l #	71
13) Acrolein	4.189	56	69	0.272	ug/l #	14
16) Acetone	4.436	43	27594	37.654	ug/l	100
17) Carbon Disulfide	4.718	76	1300	0.305	ug/l #	75
18) Methyl Acetate	5.042	43	2188	1.002	ug/l #	71
20) Methylene Chloride	5.277	84	7570	4.488	ug/l #	84
25) 2-Butanone	7.488	43	4055	3.604	ug/l	99
29) Tetrahydrofuran	7.865	42	294	0.404	ug/l #	38
31) Cyclohexane	8.230	56	3446	1.242	ug/l #	15
36) 1,1-Dichloropropene	8.230	75	11682	4.656	ug/l #	49
37) Ethyl Acetate	7.571	43	2987	1.063	ug/l #	81
38) Carbon Tetrachloride	8.230	117	15216	5.385	ug/l #	16
42) 1,2-Dichloroethane	8.671	62	632	0.232	ug/l #	78
43) Isopropyl Acetate	8.688	43	425104	91.237	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	1148	0.647	ug/l #	44
48) Methyl methacrylate	9.665	41	3907	1.682	ug/l #	51
49) 1,4-Dioxane	9.735	88	58	1.384	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9003	3.389	ug/l #	84
52) Toluene	10.624	92	1152	0.244	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	632	0.216	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	40294	12.934	ug/l #	57
56) Ethyl methacrylate	10.982	69	931	0.292	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4728	1.567	ug/l #	43
59) 2-Hexanone	11.200	43	68826	33.490	ug/l #	57
71) Bromoform	12.847	173	773	0.454	ug/l #	1
74) N-amyl acetate	12.488	43	2084	0.387	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	78616	27.183	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78616	59.130	ug/l #	6
95) Naphthalene	15.635	128	3996	0.452	ug/l #	85

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

Instrument :
MSVOA_N
ClientSampleId :

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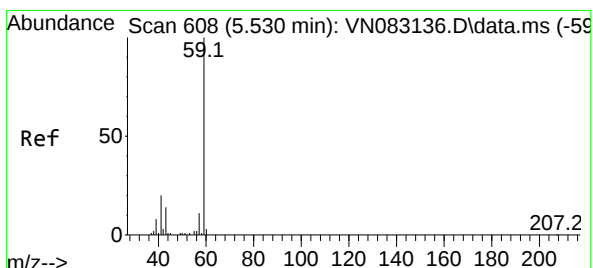
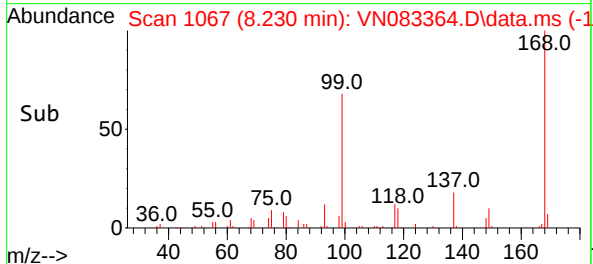
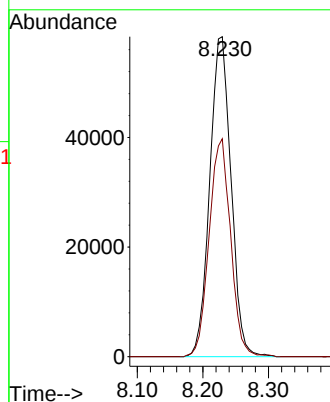
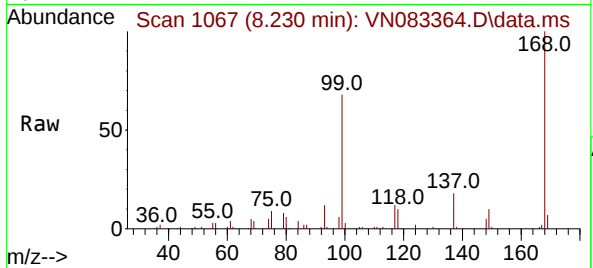




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

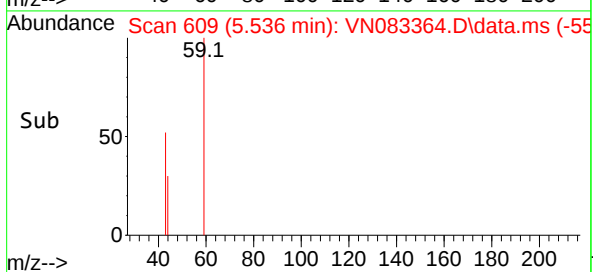
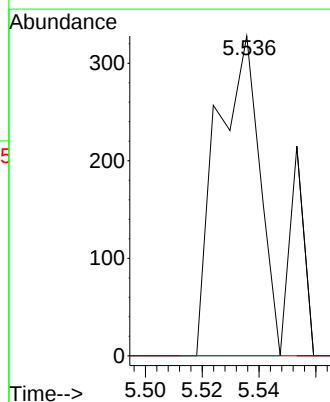
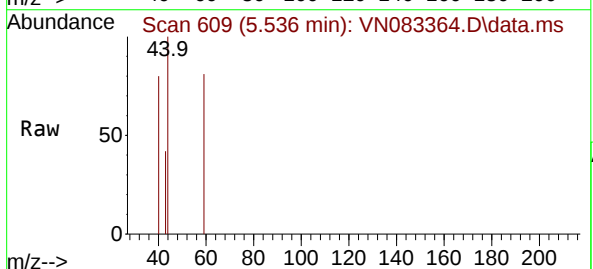
Instrument :
MSVOA_N
ClientSampleId :

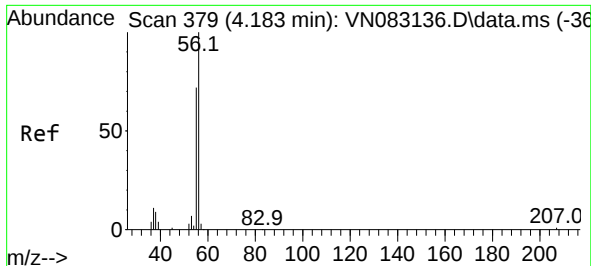
Tgt Ion:168 Resp: 131574
Ion Ratio Lower Upper
168 100
99 68.1 48.2 72.4



#11
Tert butyl alcohol
Concen: 0.879 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Tgt Ion: 59 Resp: 342
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

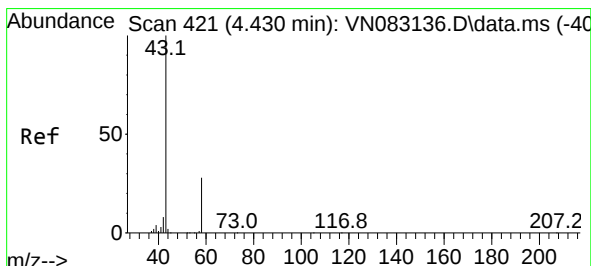
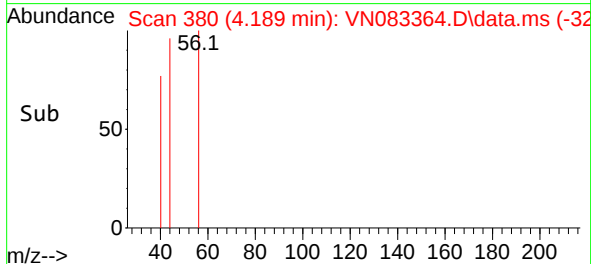
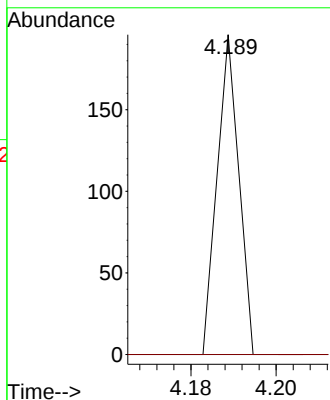
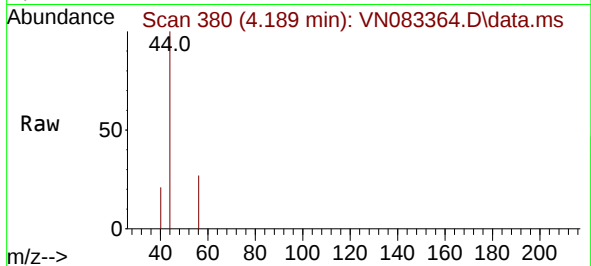




#13
Acrolein
Concen: 0.272 ug/l
RT: 4.189 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

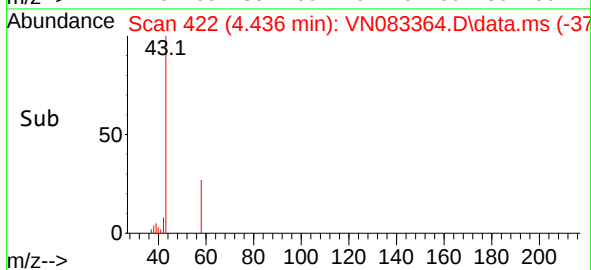
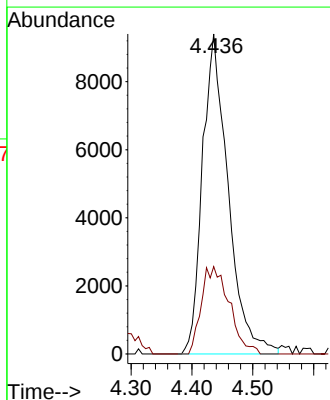
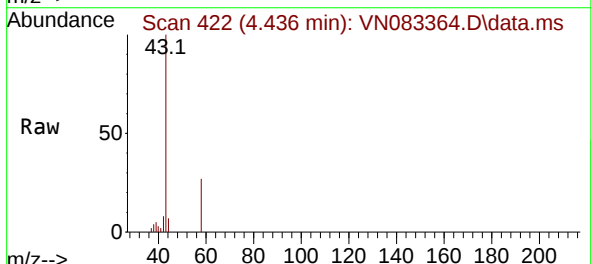
Instrument :
MSVOA_N
ClientSampleId :

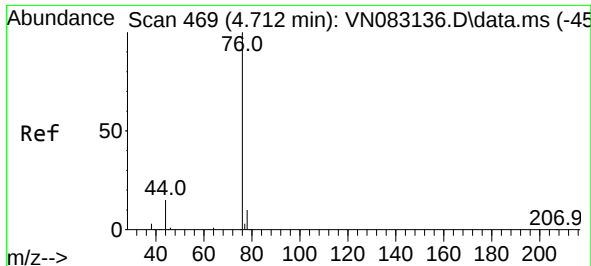
Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#



#16
Acetone
Concen: 37.654 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Tgt Ion: 43 Resp: 27594
Ion Ratio Lower Upper
43 100
58 27.3 21.8 32.6

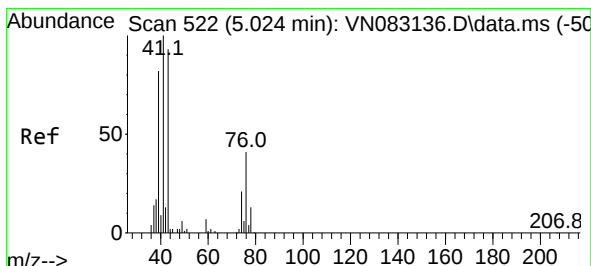
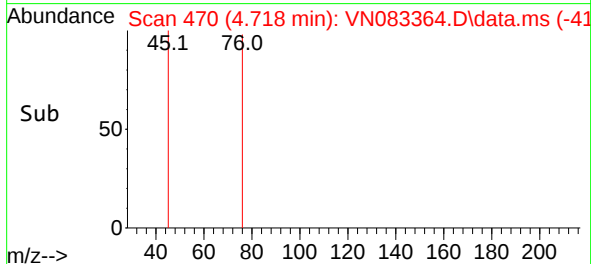
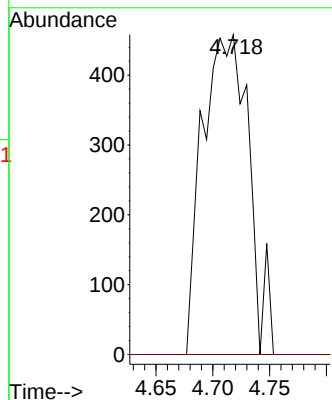
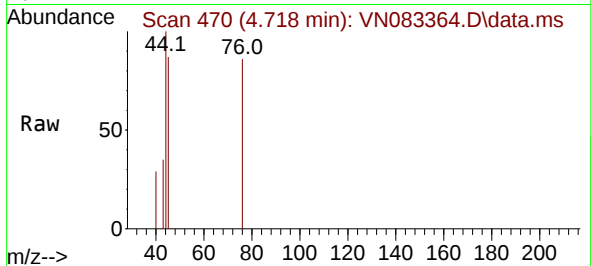




#17
Carbon Disulfide
Concen: 0.305 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

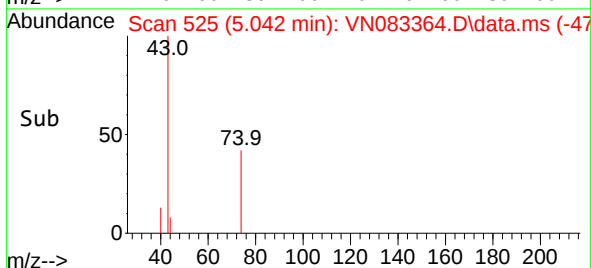
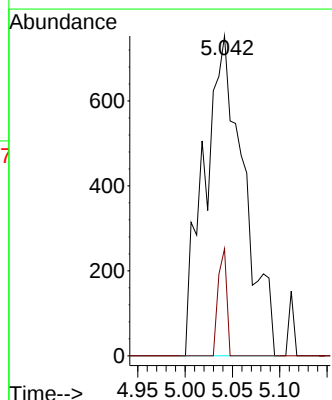
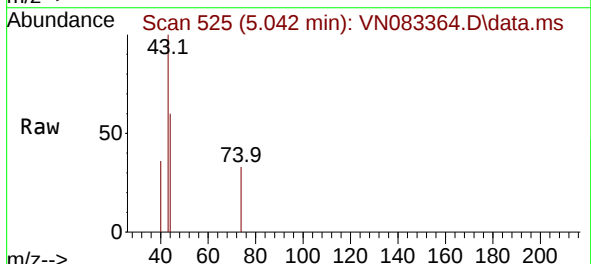
Instrument :
MSVOA_N
ClientSampleId :

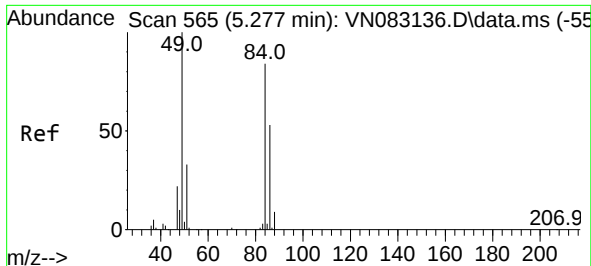
Tgt Ion: 76 Resp: 1300
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 1.002 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.018 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

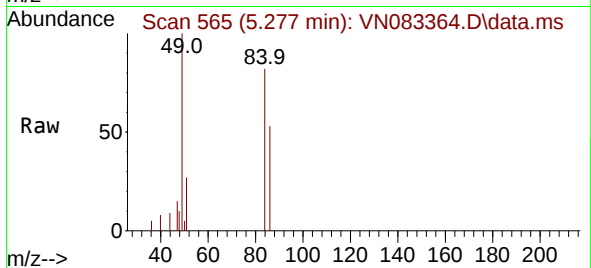
Tgt Ion: 43 Resp: 2188
Ion Ratio Lower Upper
43 100
74 7.2 16.3 24.5#



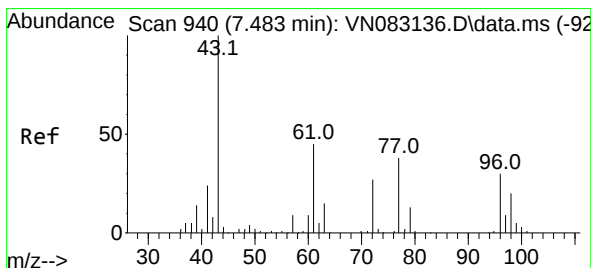
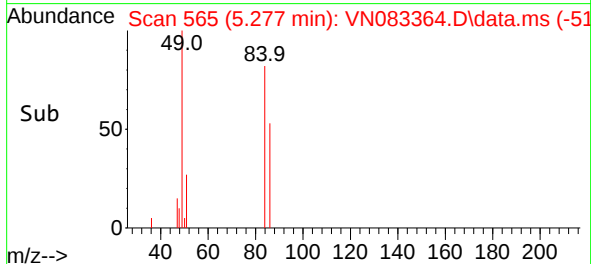
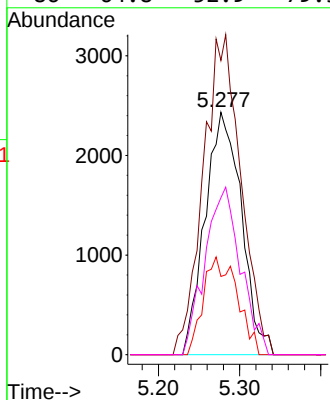


#20
Methylene Chloride
Concen: 4.488 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Instrument :
MSVOA_N
ClientSampleId :

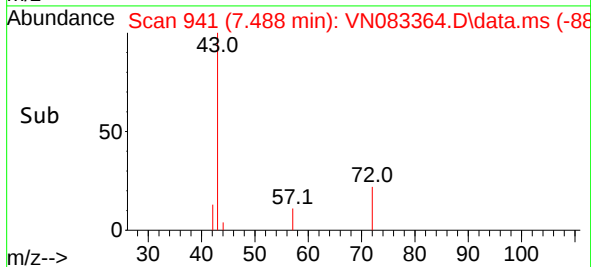
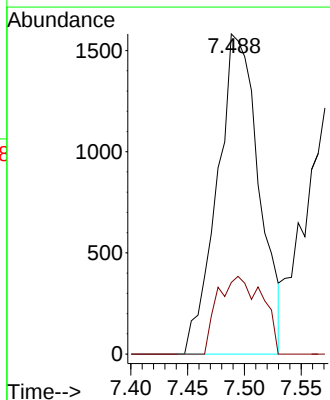
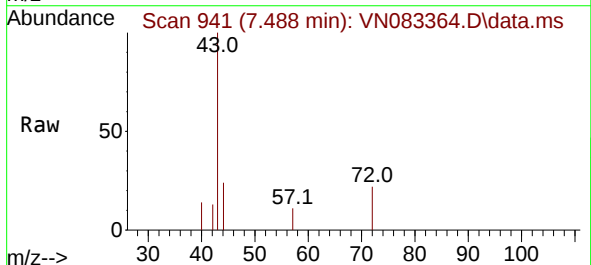


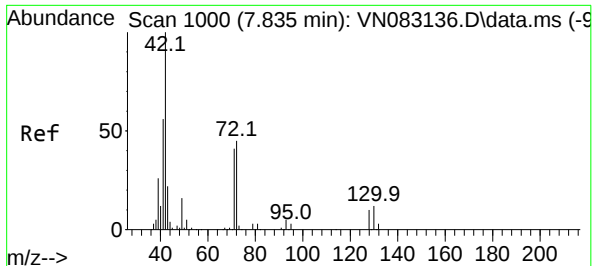
Tgt Ion: 84	Resp: 7570
Ion Ratio	Lower Upper
84 100	
49 121.4	119.6 179.4
51 32.3	34.8 52.2#
86 64.8	52.9 79.3



#25
2-Butanone
Concen: 3.604 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Tgt Ion: 43	Resp: 4055		
Ion Ratio	Lower	Upper	
43 100			
72 22.4	18.2	27.2	





#29

Tetrahydrofuran

Concen: 0.404 ug/l

RT: 7.865 min Scan# 1067

Delta R.T. 0.029 min

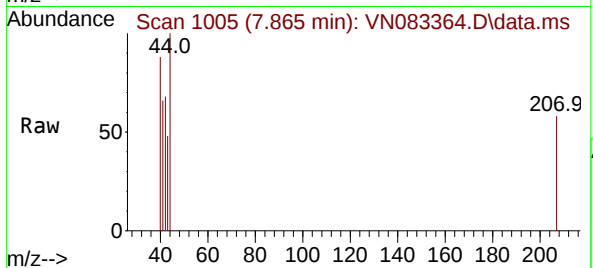
Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

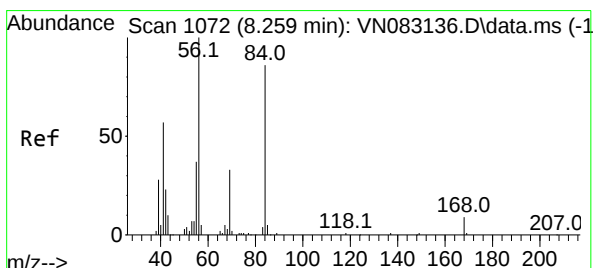
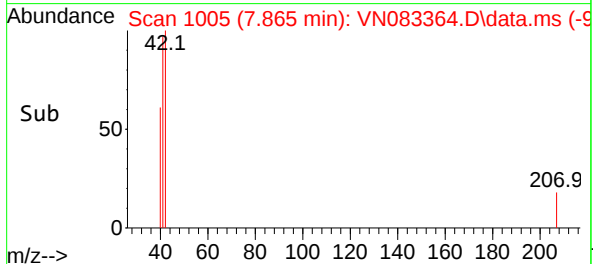
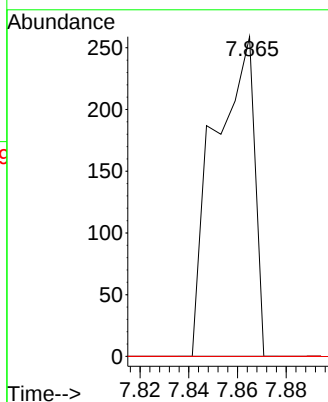
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	294
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.0	45.0#
71	0.0	28.3	42.5#



#31

Cyclohexane

Concen: 1.242 ug/l

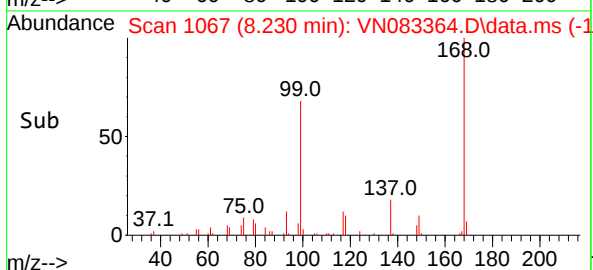
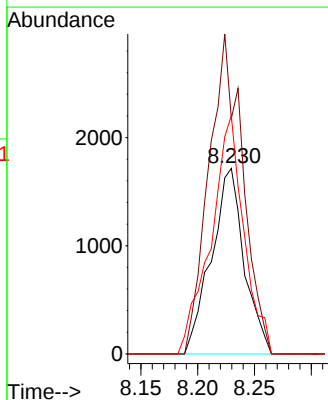
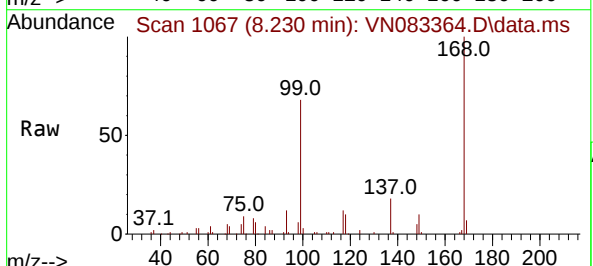
RT: 8.230 min Scan# 1067

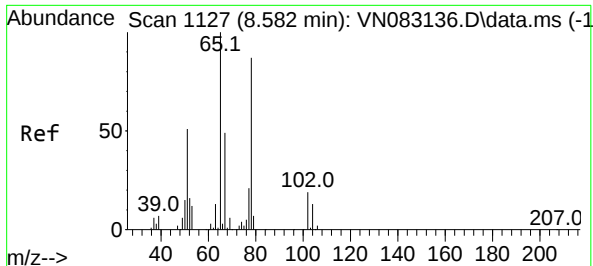
Delta R.T. -0.029 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Tgt Ion:	56	Resp:	3446
Ion	Ratio	Lower	Upper
56	100		
69	126.8	24.5	36.7#
84	128.3	66.0	99.0#





#33

1,2-Dichloroethane-d4

Concen: 59.635 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

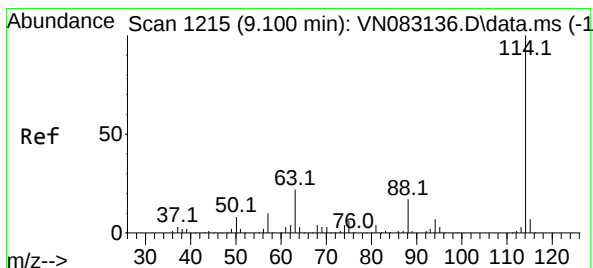
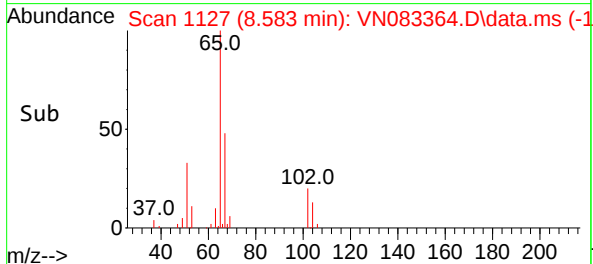
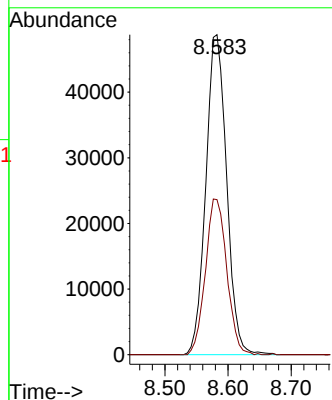
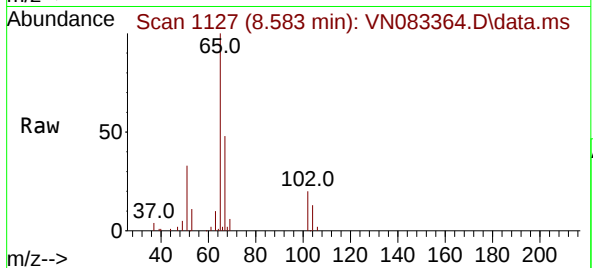
ClientSampleId :

Tgt Ion: 65 Resp: 111684

Ion Ratio Lower Upper

65 100

67 50.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

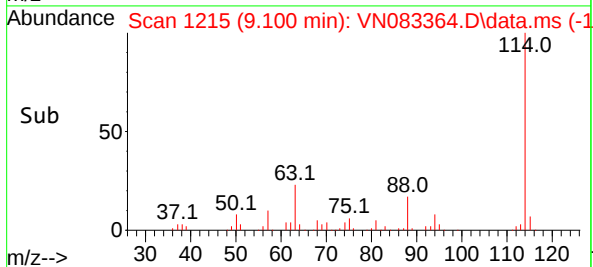
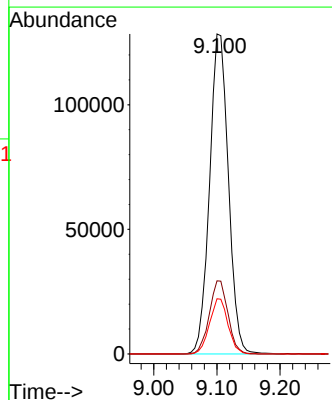
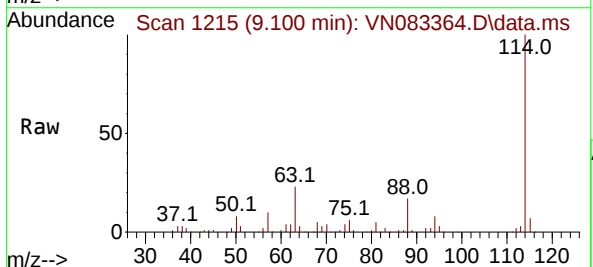
Tgt Ion: 114 Resp: 265720

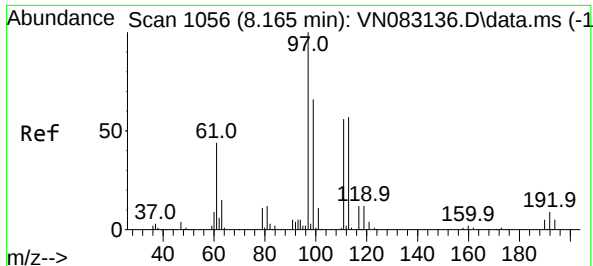
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 53.421 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

ClientSampleId :

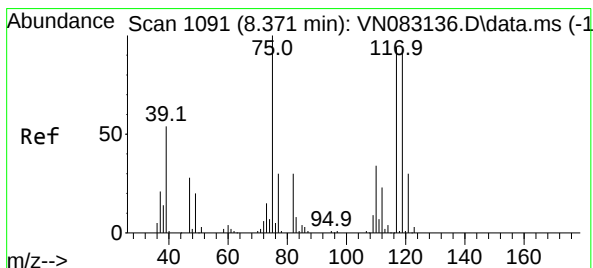
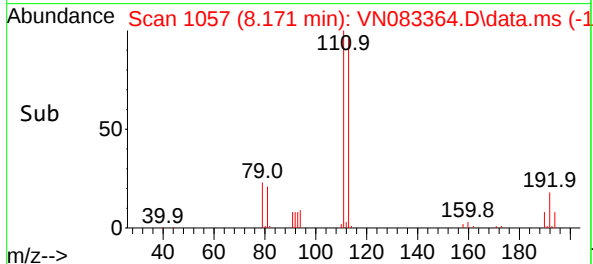
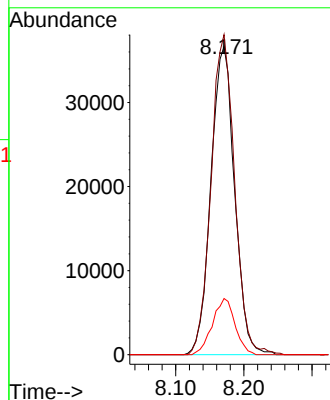
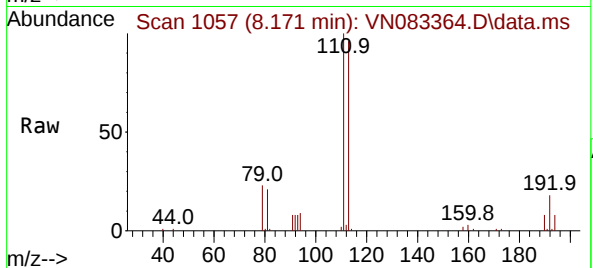
Tgt Ion:113 Resp: 88603

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

192 17.4 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.656 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

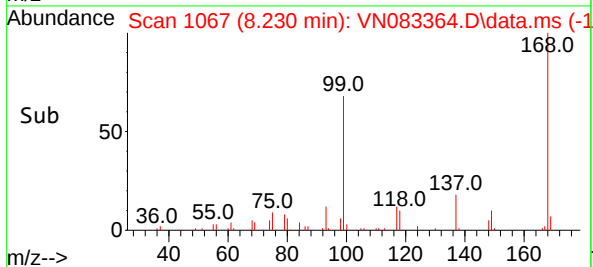
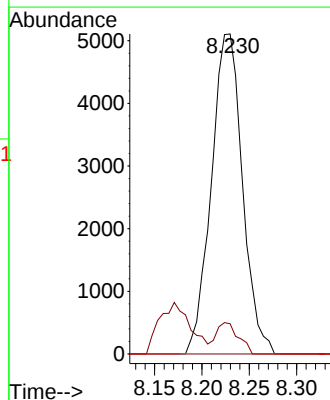
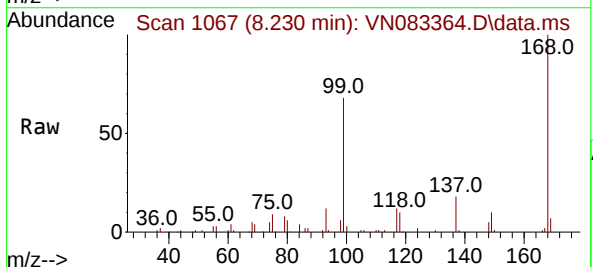
Tgt Ion: 75 Resp: 11682

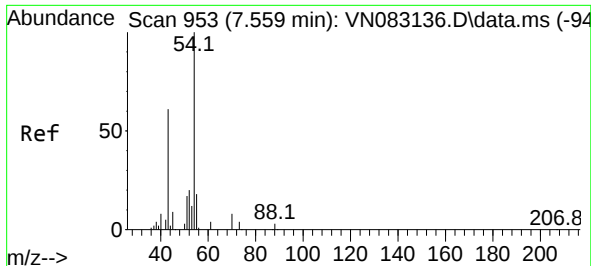
Ion Ratio Lower Upper

75 100

110 7.1 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.063 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.012 min

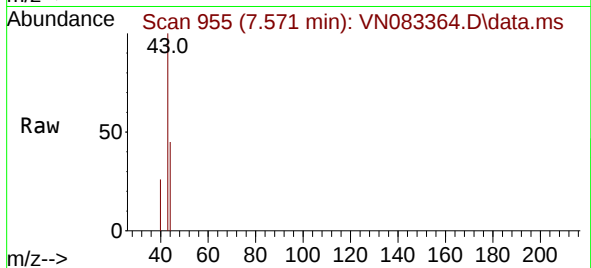
Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

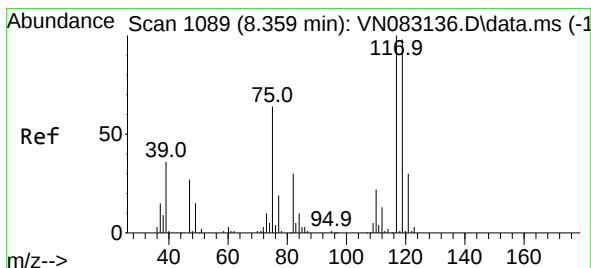
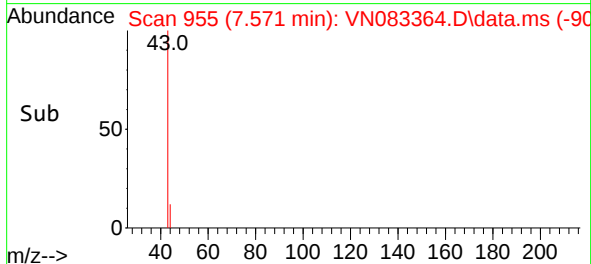
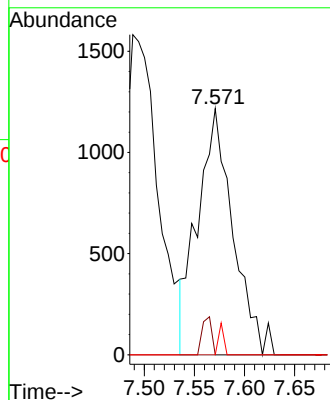
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2987
Ion	Ratio	Lower	Upper
43	100		
61	4.2	9.3	13.9#
70	1.8	7.0	10.6#



#38

Carbon Tetrachloride

Concen: 5.385 ug/l

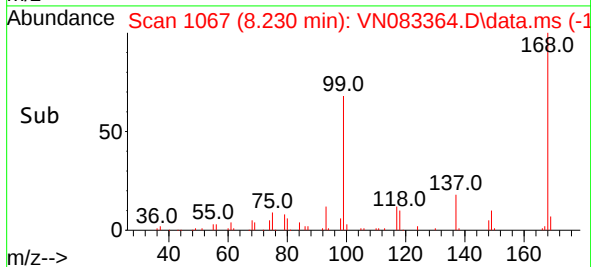
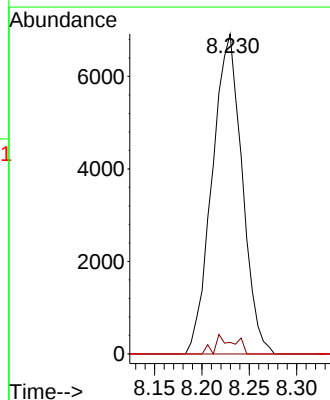
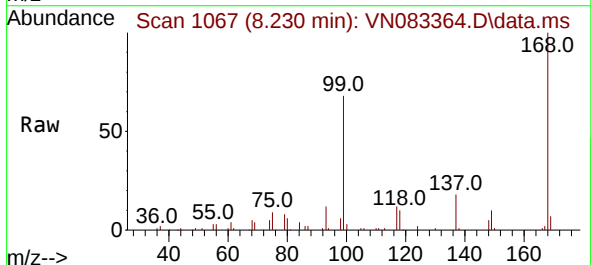
RT: 8.230 min Scan# 1067

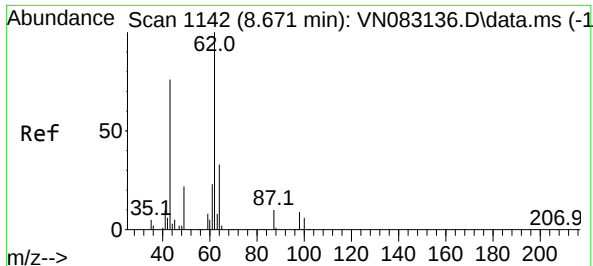
Delta R.T. -0.129 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Tgt Ion:	117	Resp:	15216
Ion	Ratio	Lower	Upper
117	100		
119	3.6	74.9	112.3#
121	0.0	24.3	36.5#





#42

1,2-Dichloroethane

Concen: 0.232 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

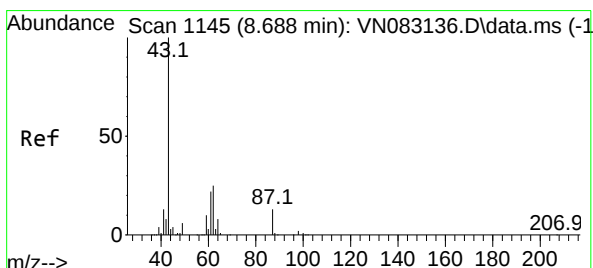
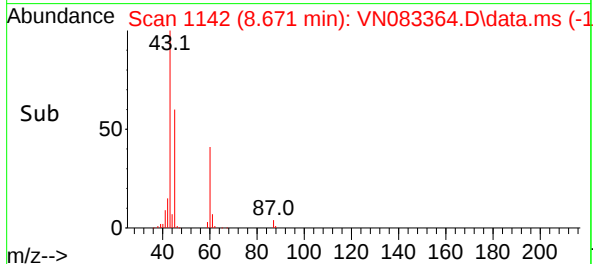
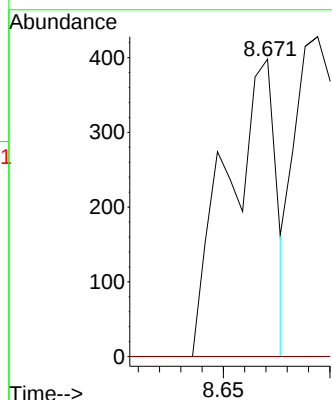
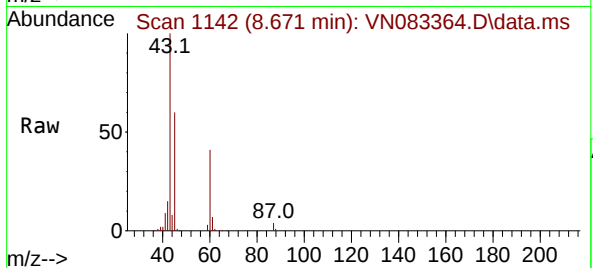
ClientSampleId :

Tgt Ion: 62 Resp: 632

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 91.237 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

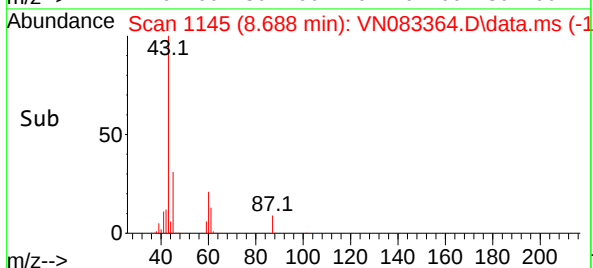
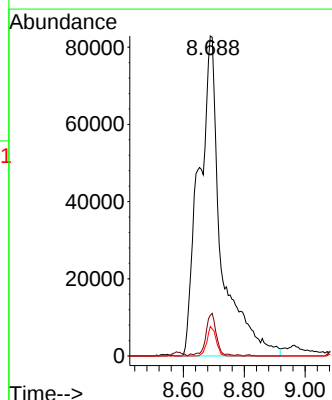
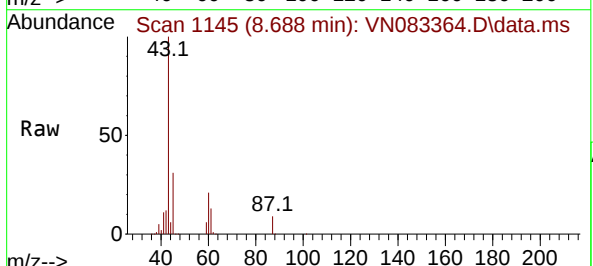
Tgt Ion: 43 Resp: 425104

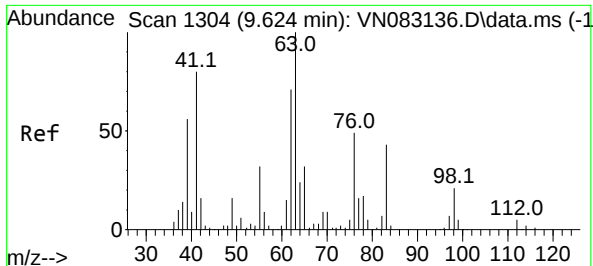
Ion Ratio Lower Upper

43 100

61 6.3 17.8 26.6#

87 3.7 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.647 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

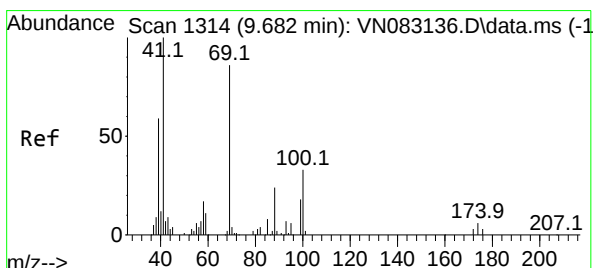
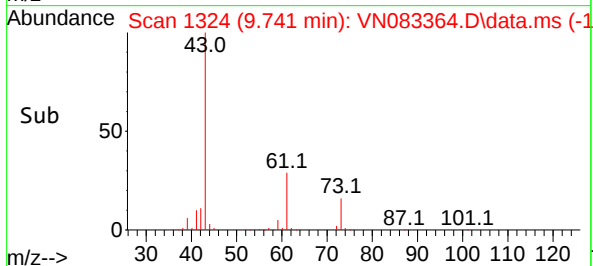
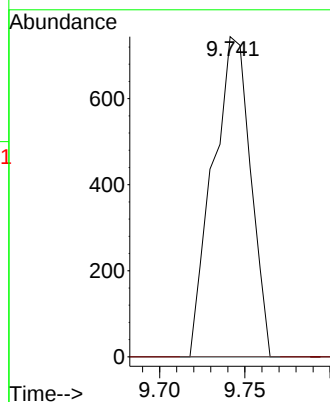
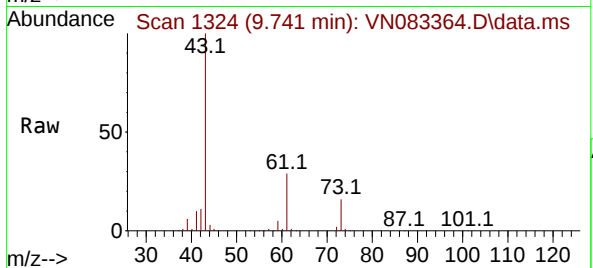
ClientSampleId :

Tgt Ion: 63 Resp: 1148

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 1.682 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.018 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

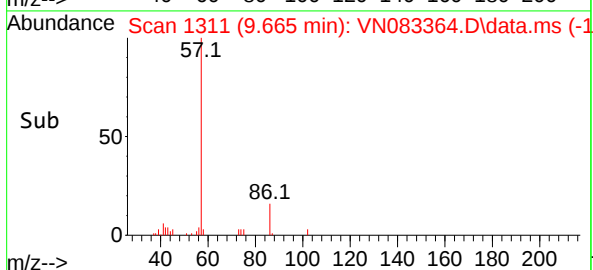
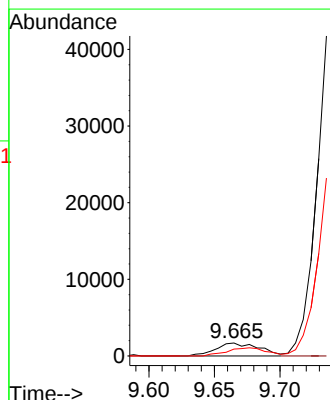
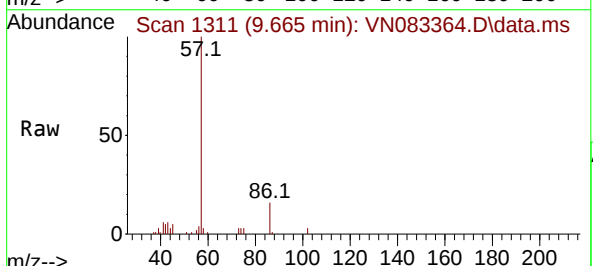
Tgt Ion: 41 Resp: 3907

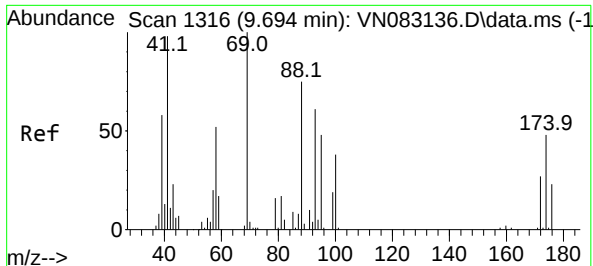
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 56.2 50.3 75.5





#49

1,4-Dioxane

Concen: 1.384 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

ClientSampleId :

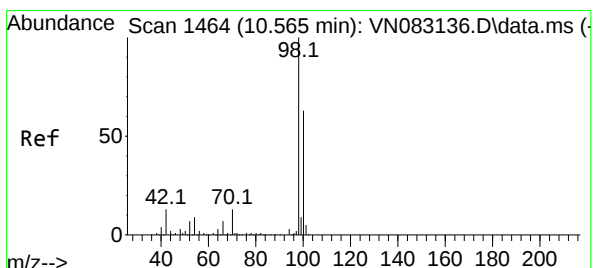
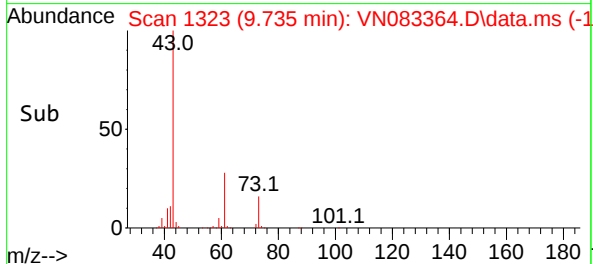
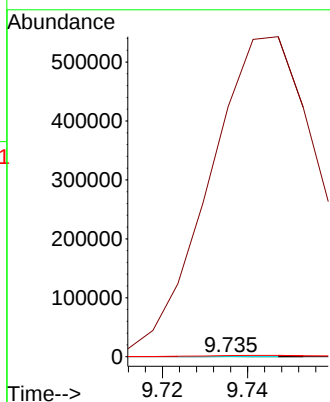
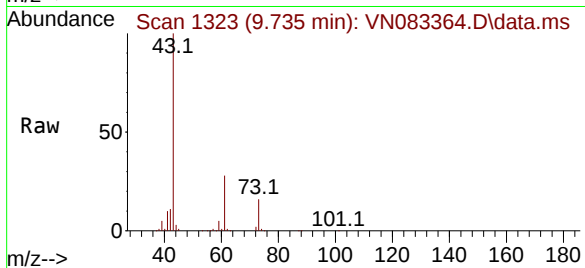
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 1738743.1 27.8 41.8#

58 7700.0 59.4 89.0#



#50

Toluene-d8

Concen: 54.142 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083364.D

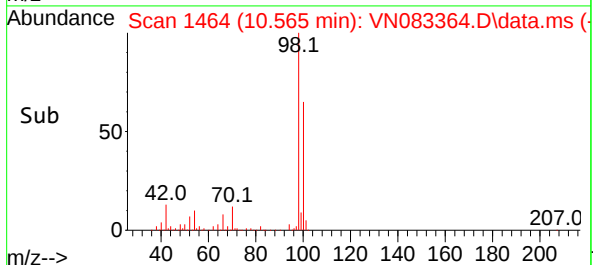
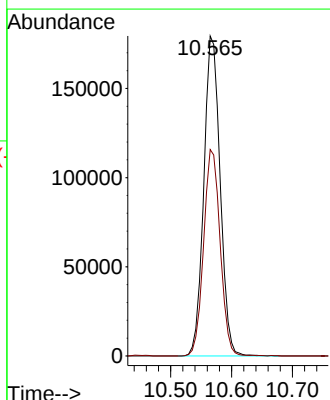
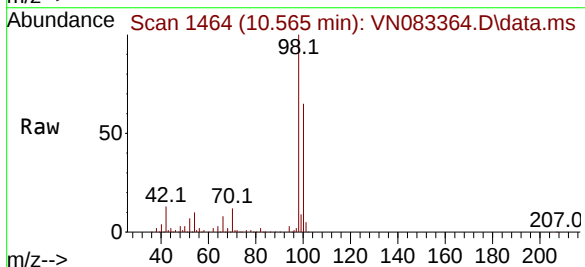
Acq: 16 Aug 2024 19:18

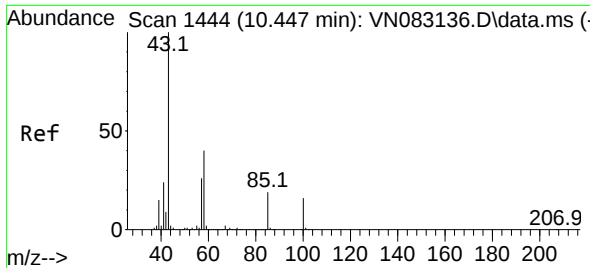
Tgt Ion: 98 Resp: 334969

Ion Ratio Lower Upper

98 100

100 65.2 51.5 77.3

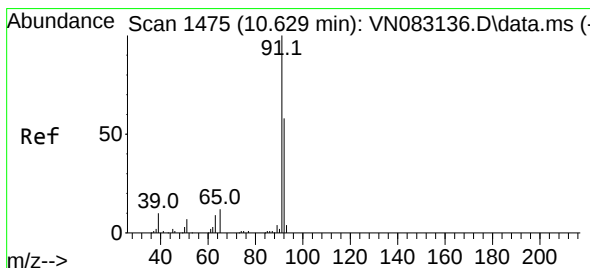
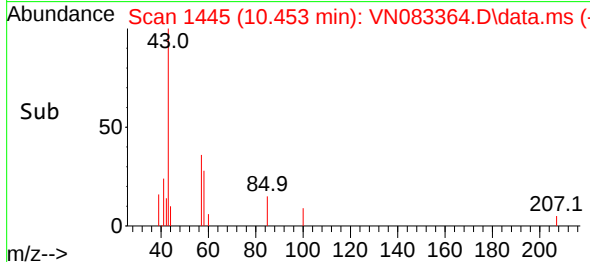
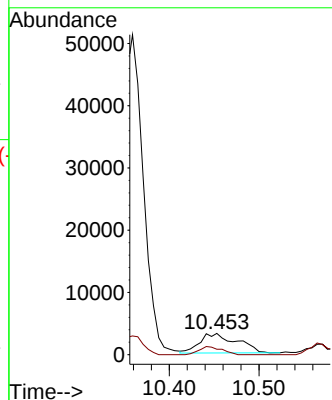
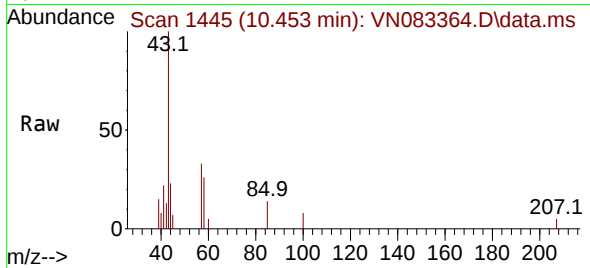




#51
4-Methyl-2-Pentanone
Concen: 3.389 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

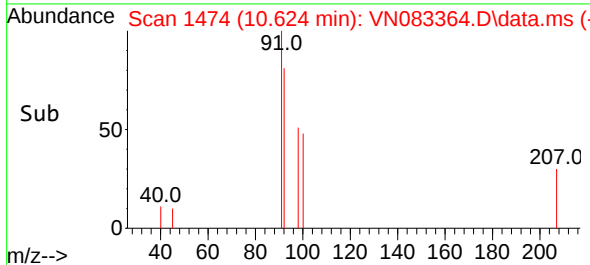
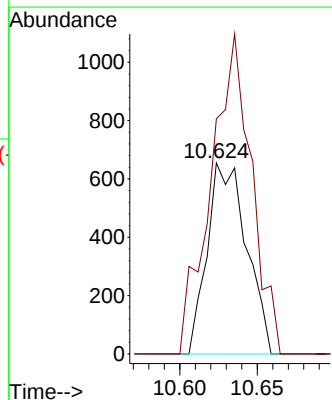
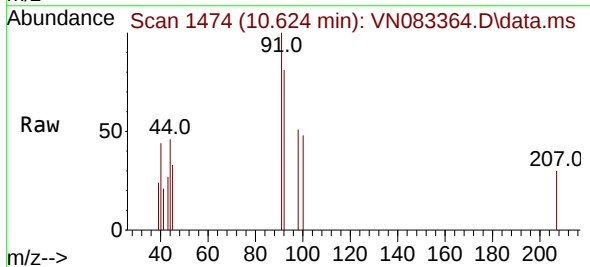
Instrument :
MSVOA_N
ClientSampleId :

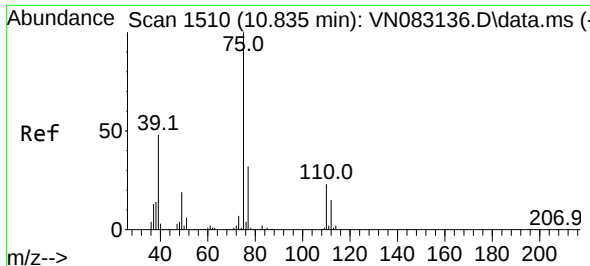
Tgt Ion: 43 Resp: 9003
Ion Ratio Lower Upper
43 100
58 25.7 28.2 42.4#



#52
Toluene
Concen: 0.244 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Tgt Ion: 92 Resp: 1152
Ion Ratio Lower Upper
92 100
91 173.1 139.4 209.0





#53

t-1,3-Dichloropropene

Concen: 0.216 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.106 min

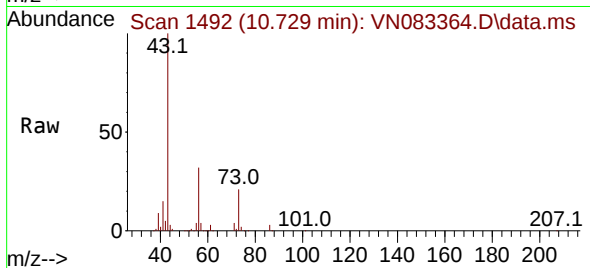
Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

ClientSampleId :

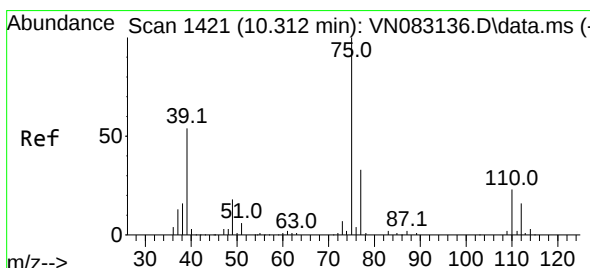
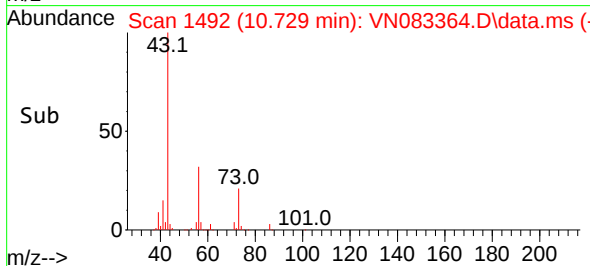
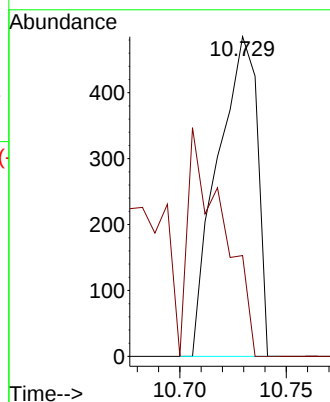


Tgt Ion: 75 Resp: 632

Ion Ratio Lower Upper

75 100

77 31.5 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 12.934 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

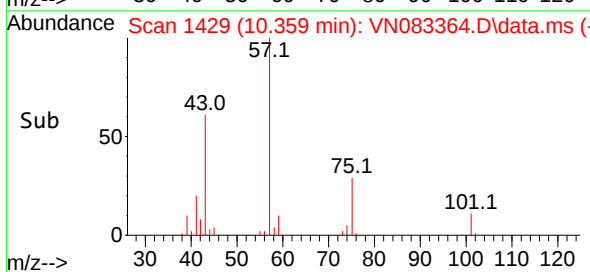
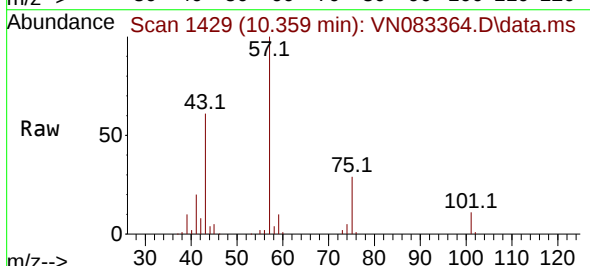
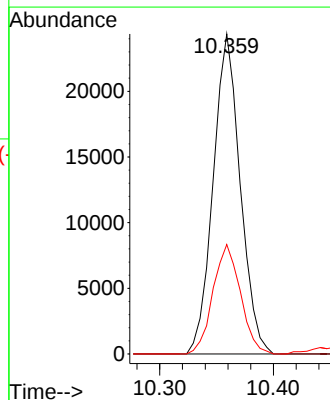
Tgt Ion: 75 Resp: 40294

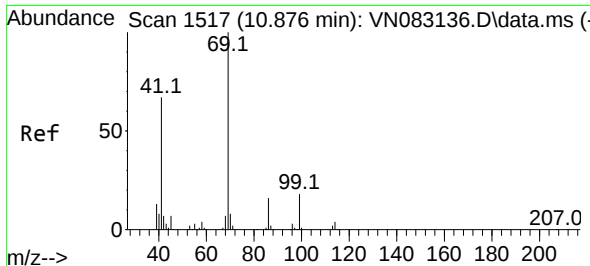
Ion Ratio Lower Upper

75 100

77 0.0 24.3 36.5#

39 34.2 50.5 75.7#

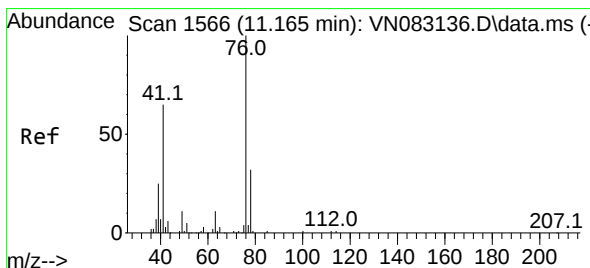
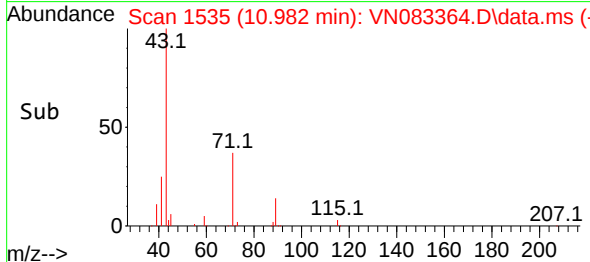
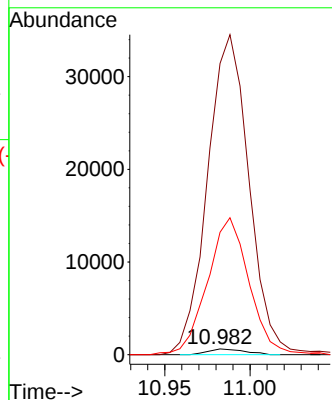
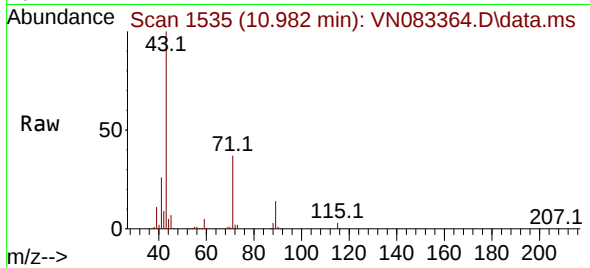




#56
Ethyl methacrylate
Concen: 0.292 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

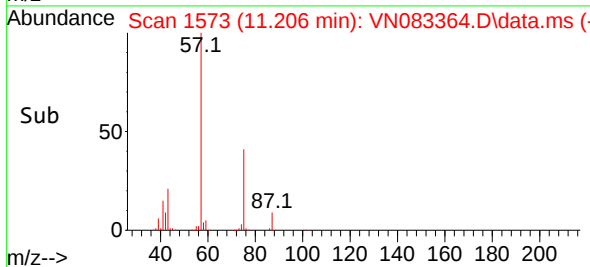
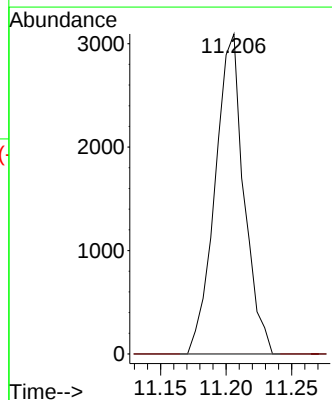
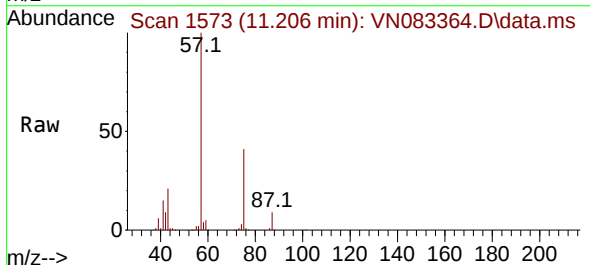
Instrument :
MSVOA_N
ClientSampleId :

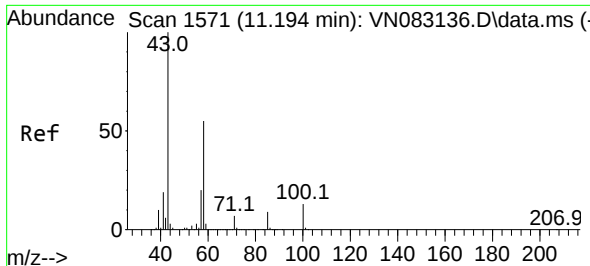
Tgt Ion: 69 Resp: 931
Ion Ratio Lower Upper
69 100
41 6313.6 63.4 95.2#
39 2703.3 37.4 56.0#



#57
1,3-Dichloropropane
Concen: 1.567 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

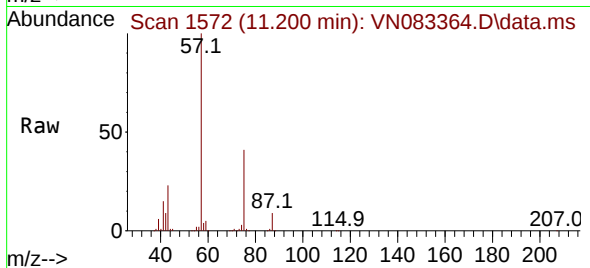
Tgt Ion: 76 Resp: 4728
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



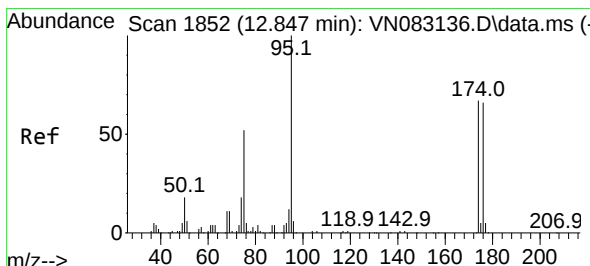
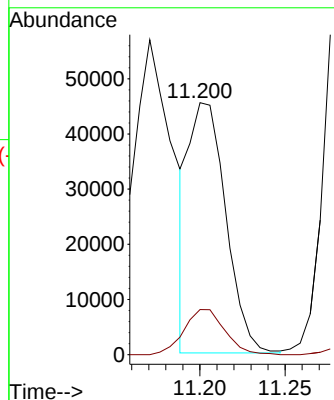
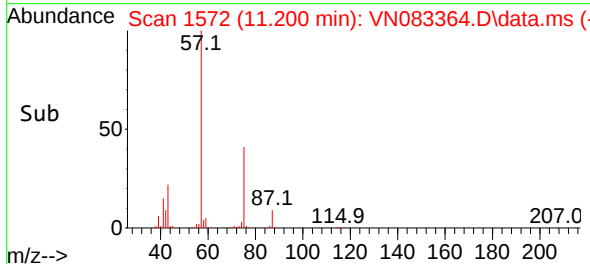


#59
2-Hexanone
Concen: 33.490 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Instrument :
MSVOA_N
ClientSampleId :

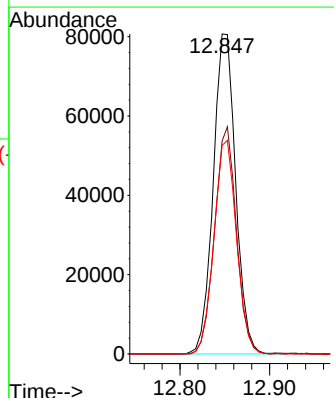
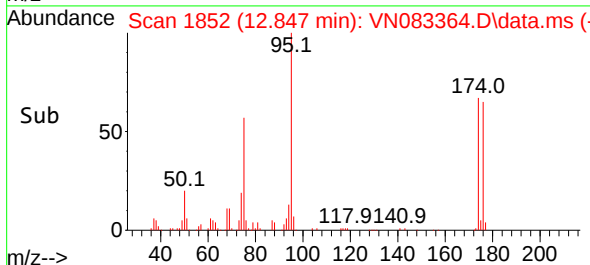
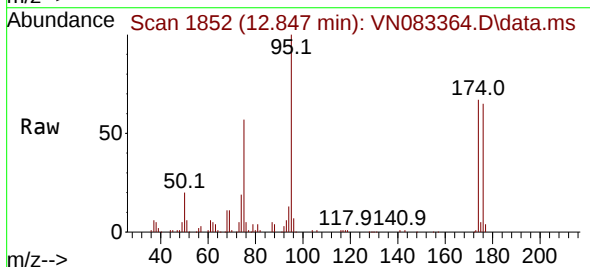


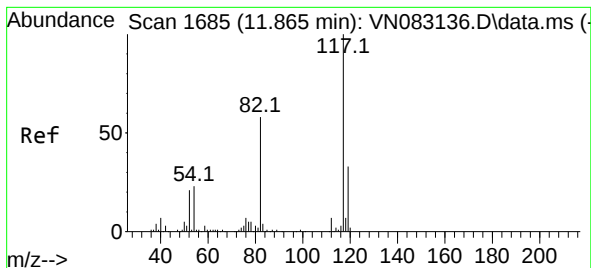
Tgt Ion: 43 Resp: 68826
Ion Ratio Lower Upper
43 100
58 19.9 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 58.005 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Tgt Ion: 95 Resp: 139907
Ion Ratio Lower Upper
95 100
174 69.0 0.0 159.2
176 67.2 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

ClientSampleId :

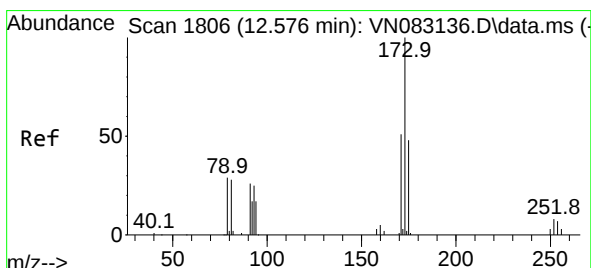
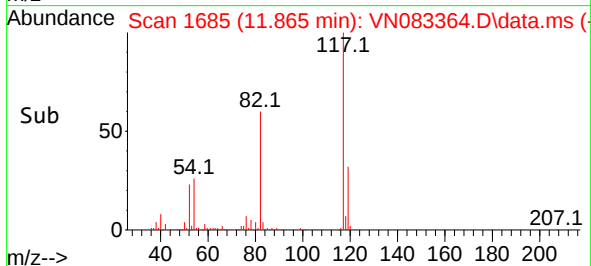
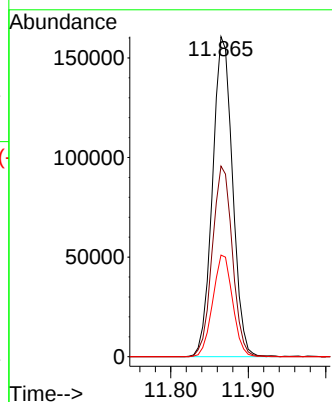
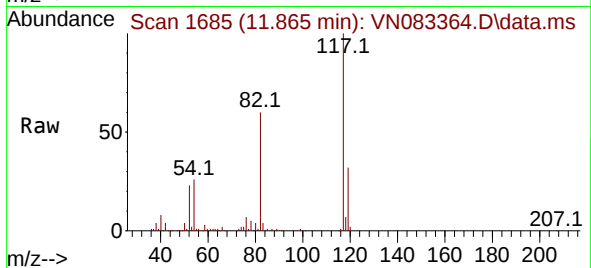
Tgt Ion:117 Resp: 288551

Ion Ratio Lower Upper

117 100

82 59.6 47.5 71.3

119 31.7 25.6 38.4



#71

Bromoform

Concen: 0.454 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

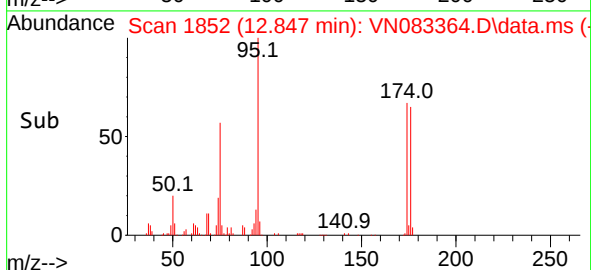
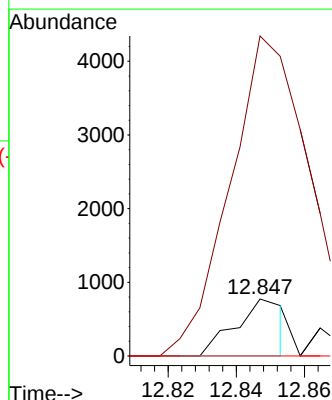
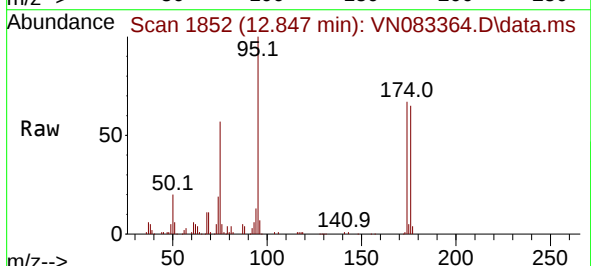
Tgt Ion:173 Resp: 773

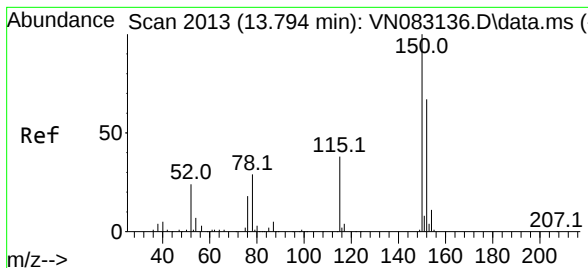
Ion Ratio Lower Upper

173 100

175 637.4 24.0 72.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

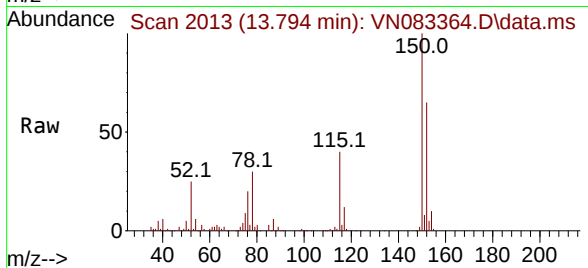
Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

ClientSampleId :



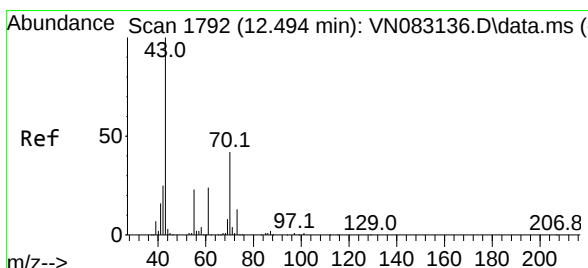
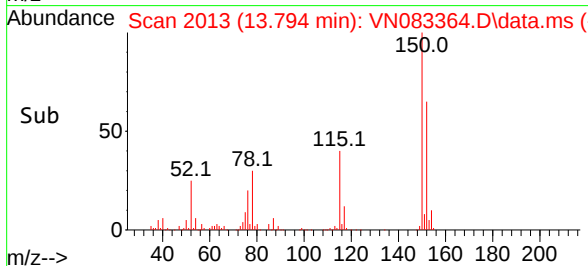
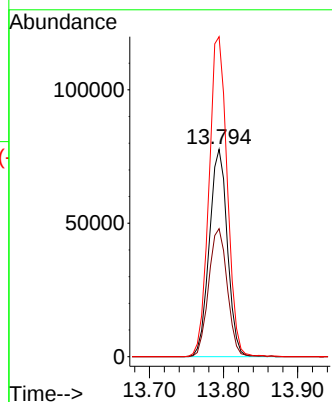
Tgt Ion:152 Resp: 131773

Ion Ratio Lower Upper

152 100

115 63.7 30.6 91.6

150 155.8 0.0 348.6



#74

N-ethyl acetate

Concen: 0.387 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Tgt Ion: 43 Resp: 2084

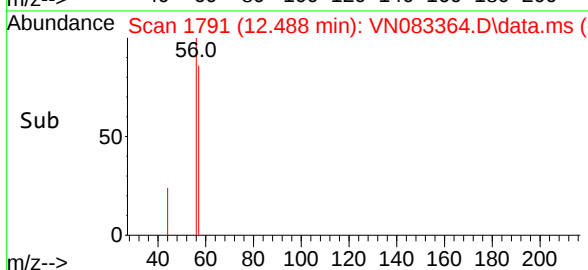
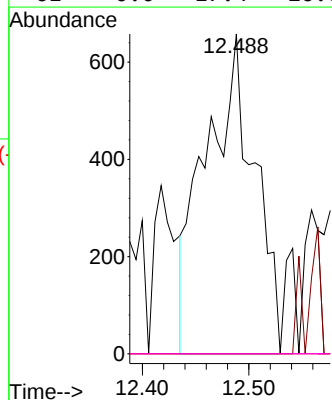
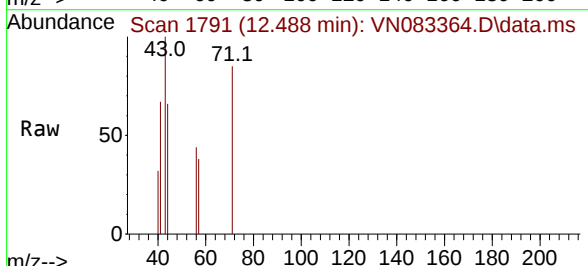
Ion Ratio Lower Upper

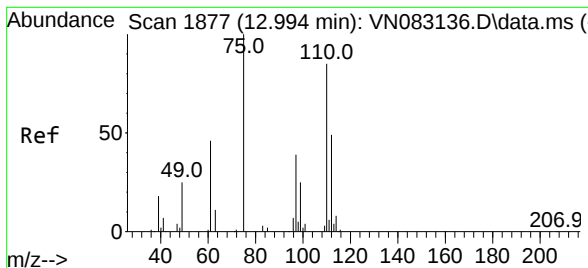
43 100

70 0.0 29.8 44.6#

55 0.0 18.7 28.1#

61 0.0 17.4 26.0#





#76

1,2,3-Trichloropropane

Concen: 27.183 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

Instrument :

MSVOA_N

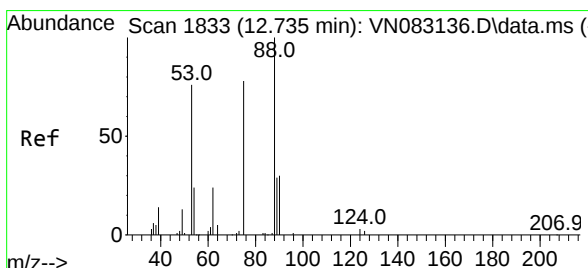
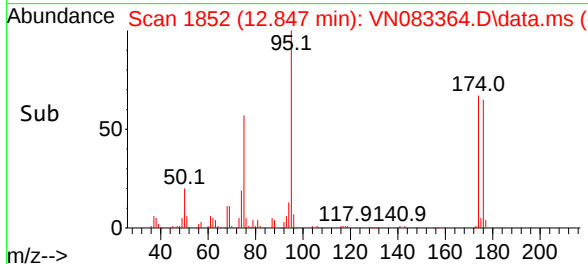
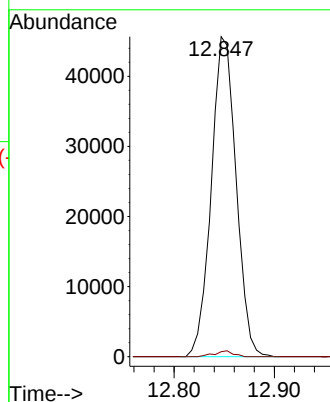
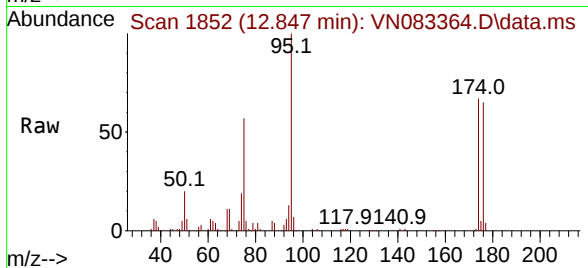
ClientSampleId :

Tgt Ion: 75 Resp: 78616

Ion Ratio Lower Upper

75 100

77 1.3 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.130 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083364.D

Acq: 16 Aug 2024 19:18

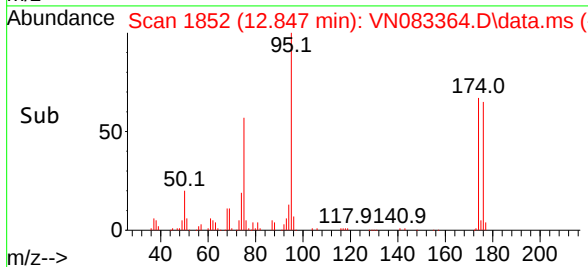
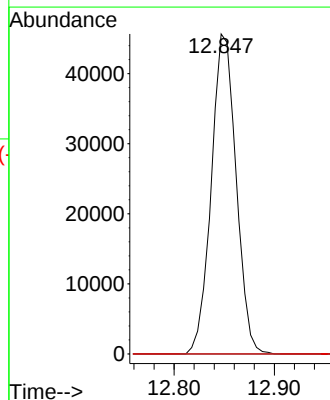
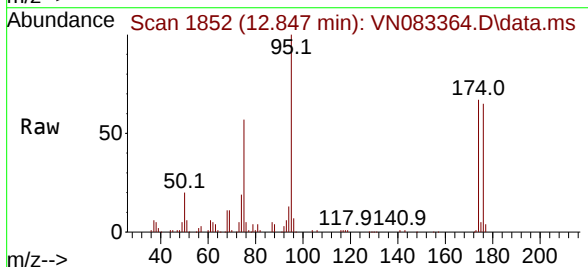
Tgt Ion: 75 Resp: 78616

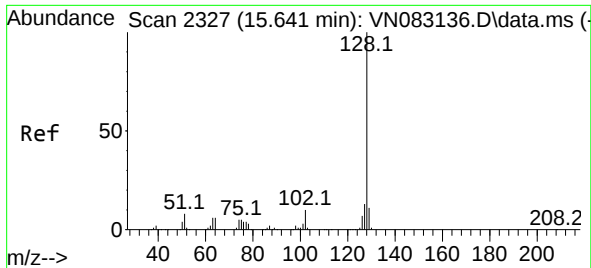
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

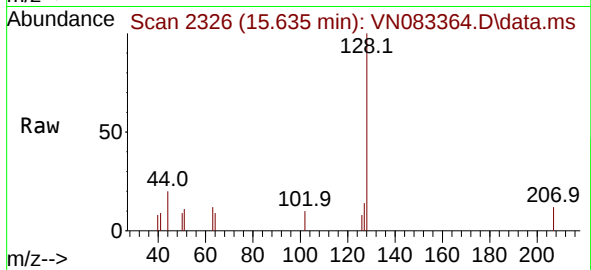
89 0.0 36.3 54.5#





#95
Naphthalene
Concen: 0.452 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN083364.D
Acq: 16 Aug 2024 19:18

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 3996
Ion Ratio Lower Upper
128 100
127 9.2 10.6 16.0#
129 2.5 8.6 12.8#

