

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091224\
 Data File : VN083852.D
 Acq On : 13 Sep 2024 04:37
 Operator : JC\MD
 Sample : P3957-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 13 06:40:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

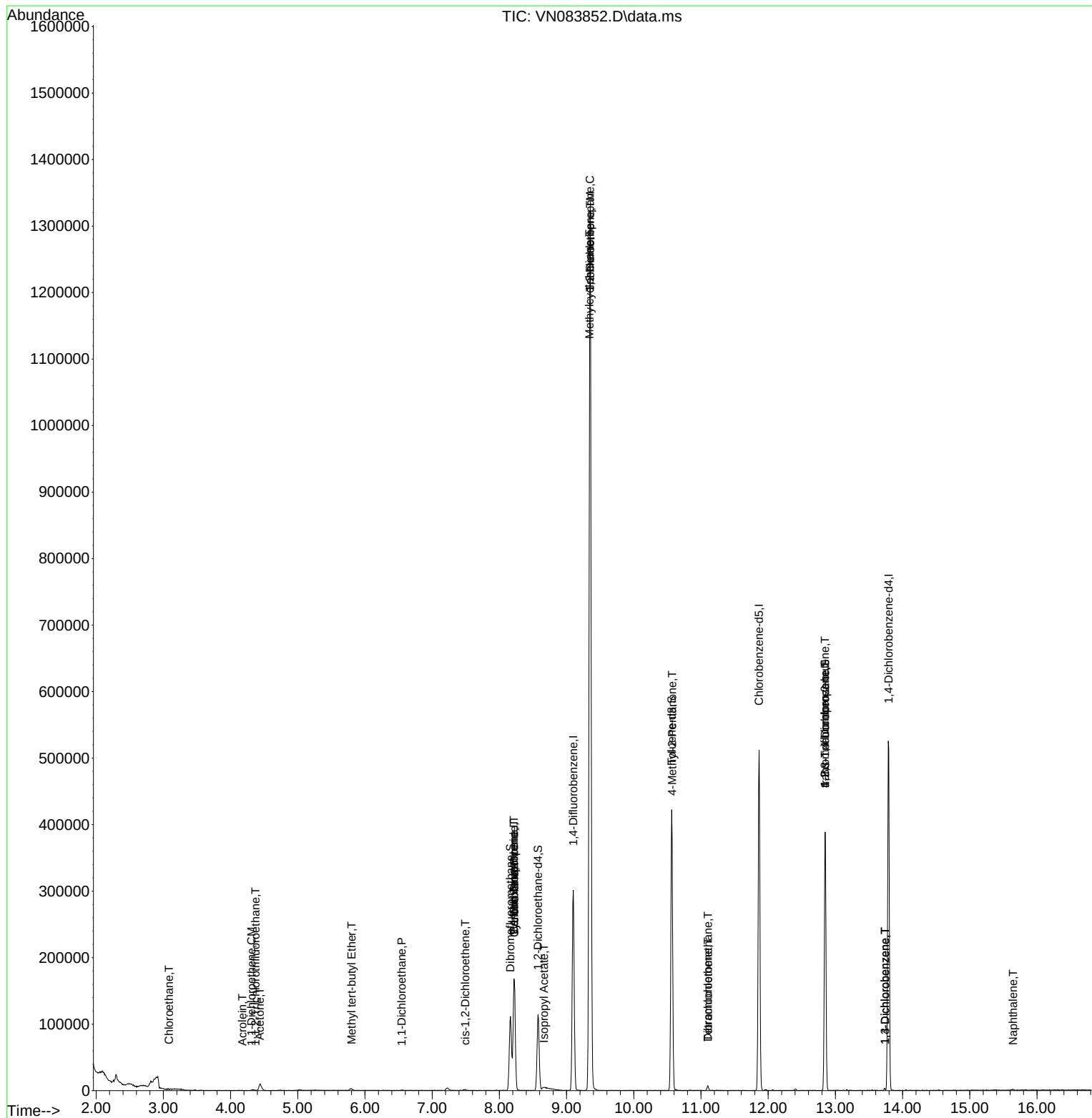
Internal Standards						
1) Pentafluorobenzene	8.218	168	115964	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	246947	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274043	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	132016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	97289	55.639	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.280%	
35) Dibromofluoromethane	8.165	113	77841	49.238	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.480%	
50) Toluene-d8	10.565	98	279570	51.153	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.300%	
62) 4-Bromofluorobenzene	12.847	95	133088	59.023	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 118.040%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	496	Below Cal	#	41
6) Chloroethane	3.083	64	581	0.561	ug/l #	45
9) 1,1,2-Trichlorotrifluo...	4.371	101	301	0.227	ug/l #	65
12) 1,1-Dichloroethene	4.312	96	265	0.211	ug/l #	43
13) Acrolein	4.177	56	59	0.255	ug/l #	13
16) Acetone	4.436	43	1121	1.599	ug/l #	45
18) Methyl Acetate	5.036	43	1817	Below Cal	#	58
19) Methyl tert-butyl Ether	5.800	73	4145	0.913	ug/l #	83
24) 1,1-Dichloroethane	6.547	63	982	0.370	ug/l #	82
27) cis-1,2-Dichloroethene	7.494	96	796	0.499	ug/l	72
31) Cyclohexane	8.224	56	3055	1.209	ug/l #	11
36) 1,1-Dichloropropene	8.218	75	11187	4.701	ug/l #	53
38) Carbon Tetrachloride	8.218	117	13202	4.890	ug/l #	15
39) Methylcyclohexane	9.341	83	6120	2.260	ug/l #	1
43) Isopropyl Acetate	8.665	43	3810	0.973	ug/l #	57
44) Trichloroethene	9.353	130	454430	273.994	ug/l	95
45) 1,2-Dichloropropane	9.347	63	1746	1.009	ug/l #	1
51) 4-Methyl-2-Pentanone	10.571	43	1844	0.865	ug/l #	1
60) Dibromochloromethane	11.106	129	1479	0.808	ug/l #	10
64) Tetrachloroethene	11.106	164	1489	0.817	ug/l	94
76) 1,2,3-Trichloropropane	12.847	75	75168	28.218	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75168	73.905	ug/l #	9
87) 1,3-Dichlorobenzene	13.741	146	1244	0.268	ug/l	90
88) 1,4-Dichlorobenzene	13.741	146	1244	0.265	ug/l	91
95) Naphthalene	15.647	128	2084	0.285	ug/l #	81

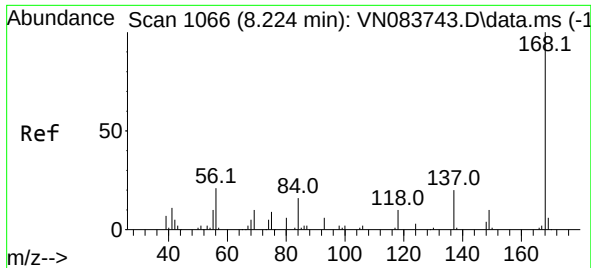
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

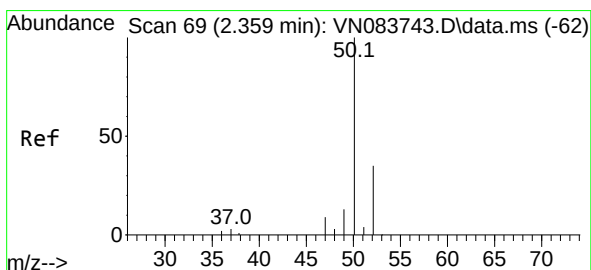
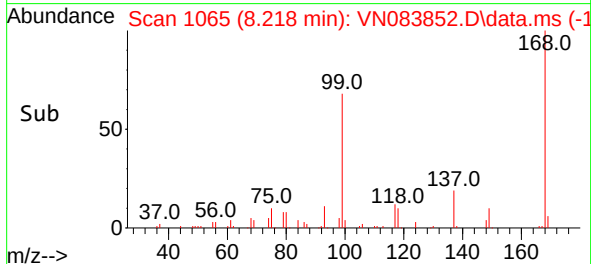
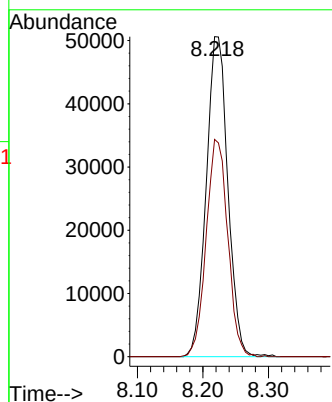
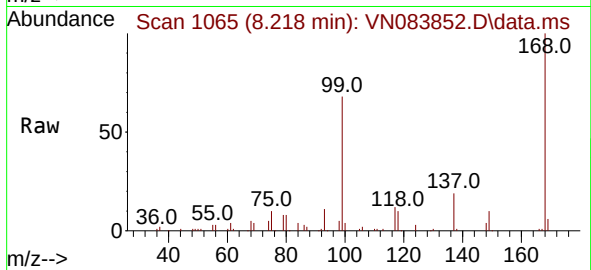




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

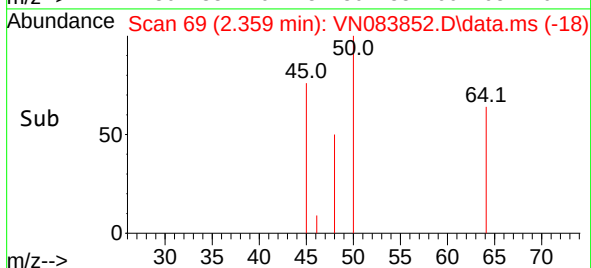
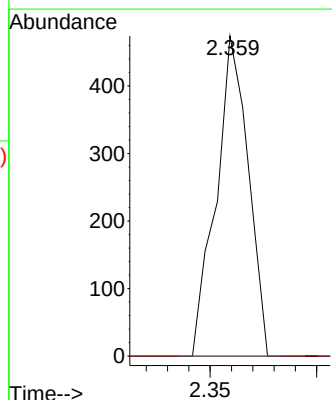
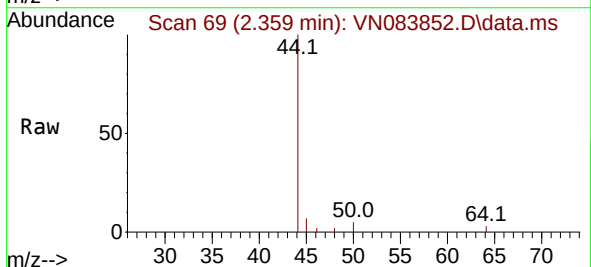
Instrument :
MSVOA_N
ClientSampleId :

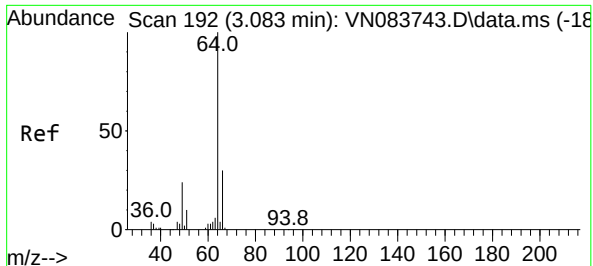
Tgt Ion:168 Resp: 115964
Ion Ratio Lower Upper
168 100
99 67.9 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion: 50 Resp: 496
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#

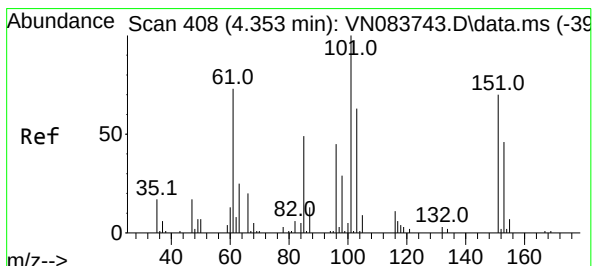
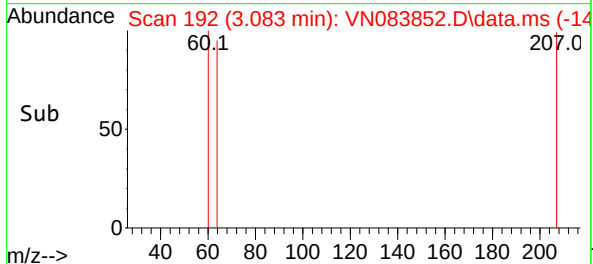
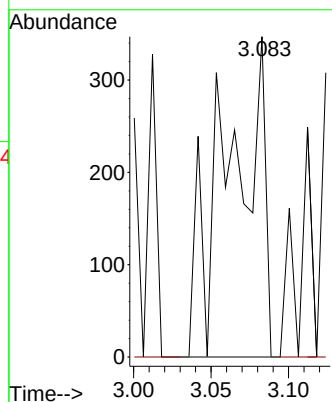
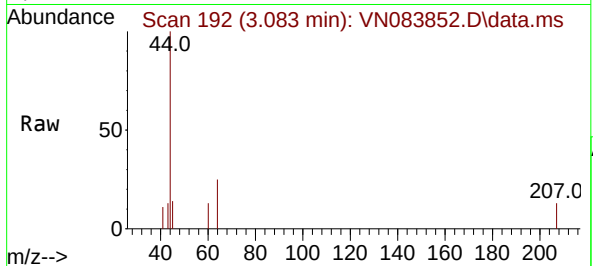




#6
Chloroethane
Concen: 0.561 ug/l
RT: 3.083 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

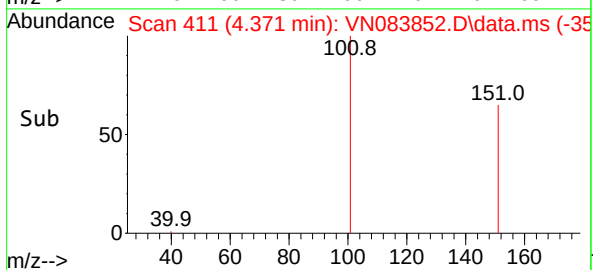
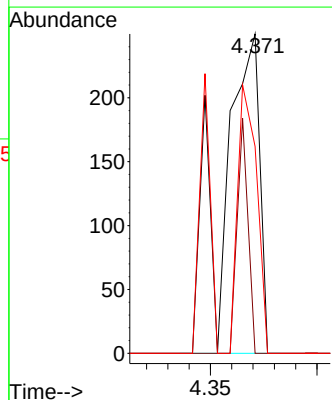
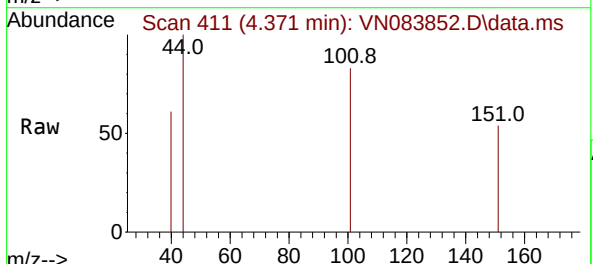
Instrument :
MSVOA_N
ClientSampleId :

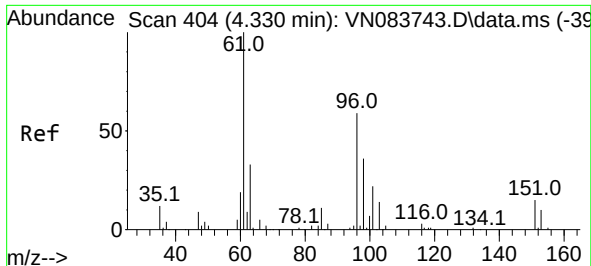
Tgt Ion: 64 Resp: 581
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.227 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.018 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion:101 Resp: 301
Ion Ratio Lower Upper
101 100
85 21.6 36.2 54.4#
151 43.5 57.7 86.5#





#12

1,1-Dichloroethene

Concen: 0.211 ug/l

RT: 4.312 min Scan# 404

Delta R.T. -0.018 min

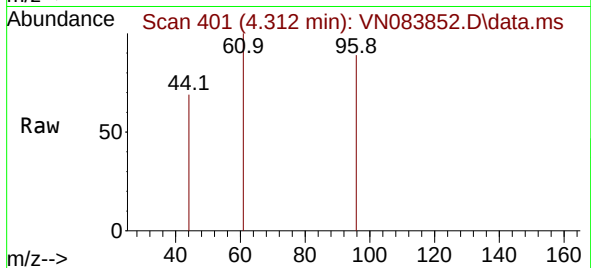
Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

ClientSampleId :



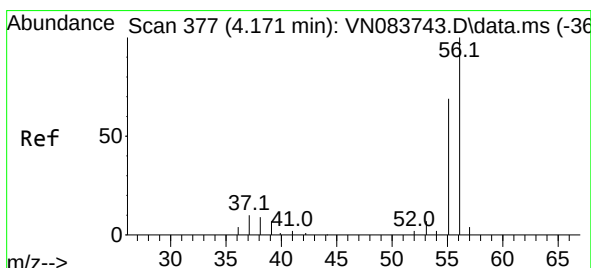
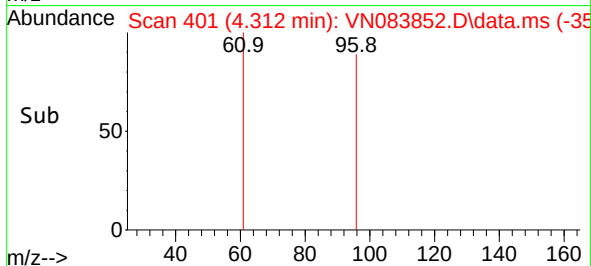
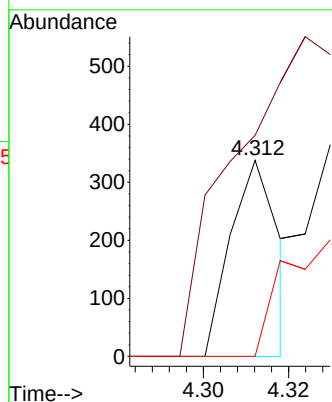
Tgt Ion: 96 Resp: 265

Ion Ratio Lower Upper

96 100

61 112.7 143.4 215.0#

98 0.0 52.7 79.1#



#13

Acrolein

Concen: 0.255 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.006 min

Lab File: VN083852.D

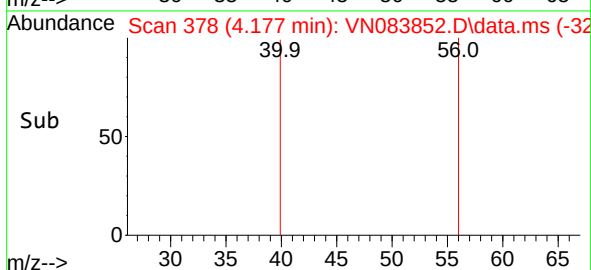
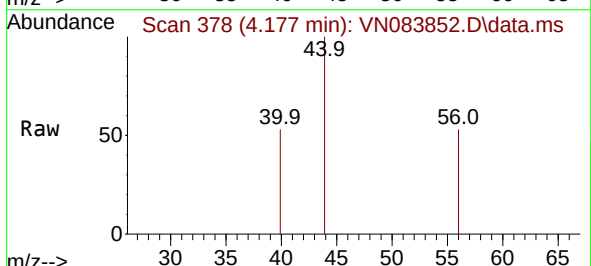
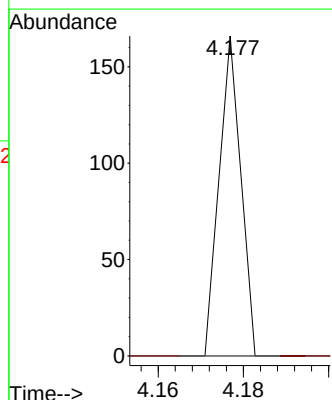
Acq: 13 Sep 2024 04:37

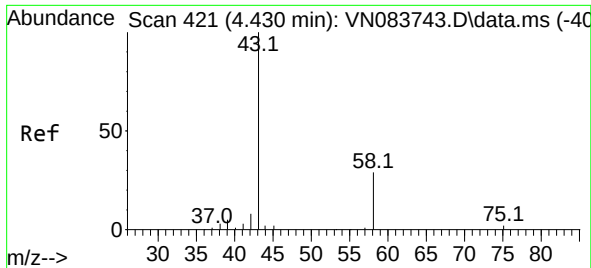
Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#





#16

Acetone

Concen: 1.599 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

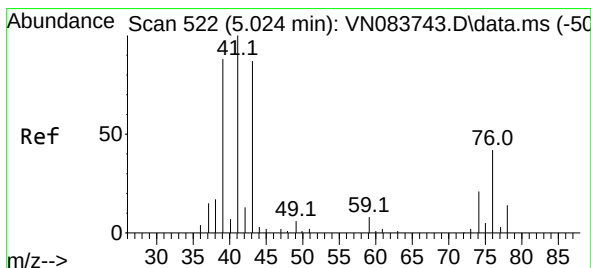
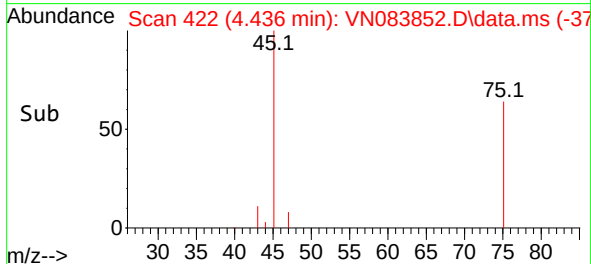
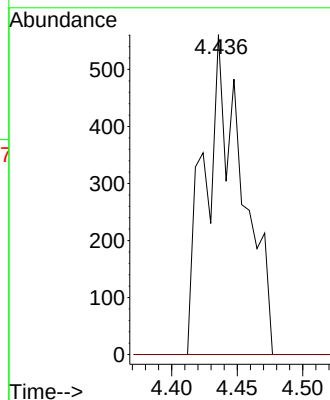
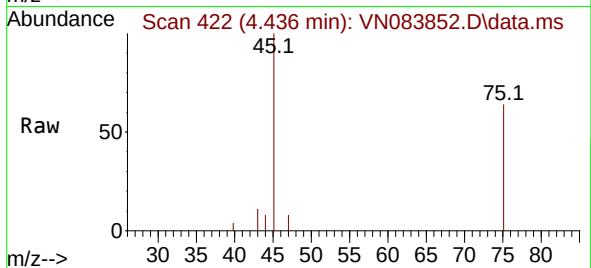
ClientSampleId :

Tgt Ion: 43 Resp: 1121

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#18

Methyl Acetate

Concen: Below Cal

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083852.D

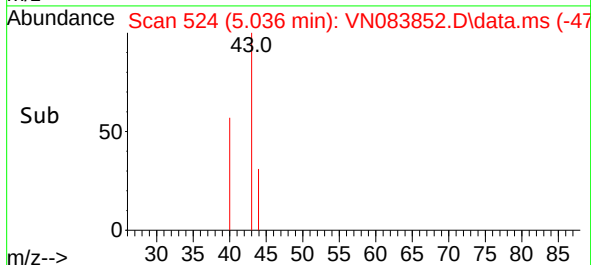
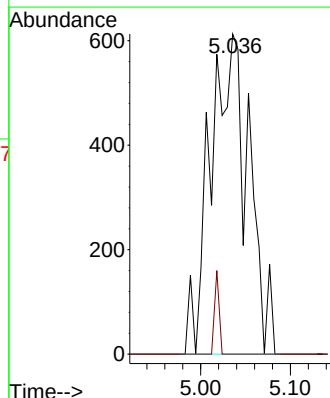
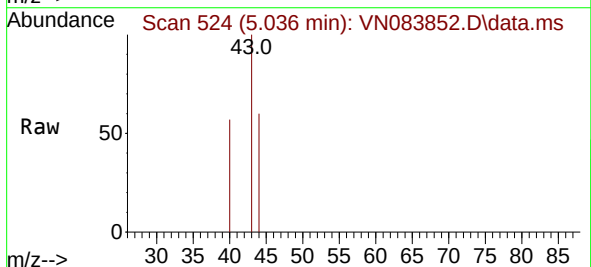
Acq: 13 Sep 2024 04:37

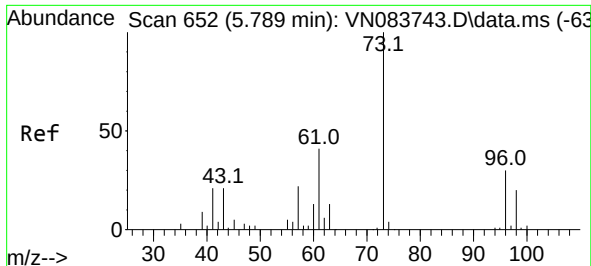
Tgt Ion: 43 Resp: 1817

Ion Ratio Lower Upper

43 100

74 3.1 19.0 28.4#





#19

Methyl tert-butyl Ether

Concen: 0.913 ug/l

RT: 5.800 min Scan# 61

Delta R.T. 0.012 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

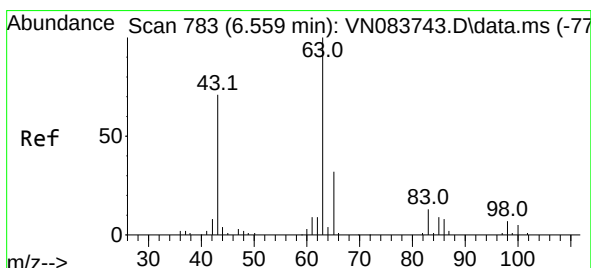
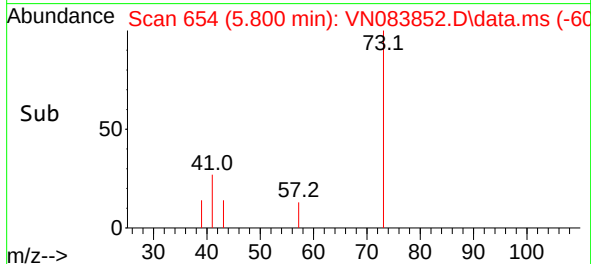
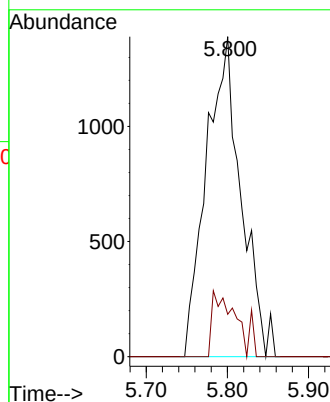
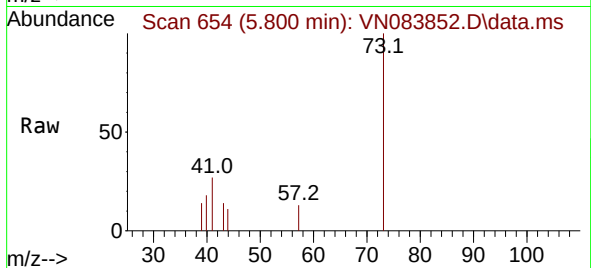
ClientSampleId :

Tgt Ion: 73 Resp: 4145

Ion Ratio Lower Upper

73 100

57 13.2 17.0 25.6#



#24

1,1-Dichloroethane

Concen: 0.370 ug/l

RT: 6.547 min Scan# 781

Delta R.T. -0.012 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

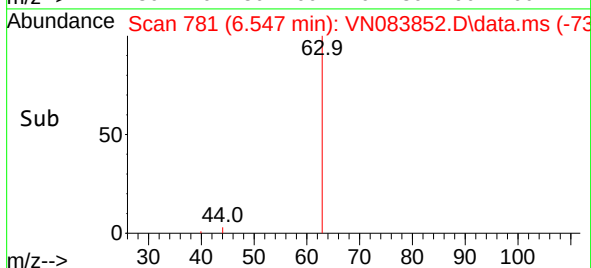
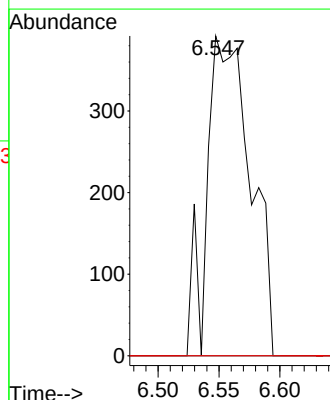
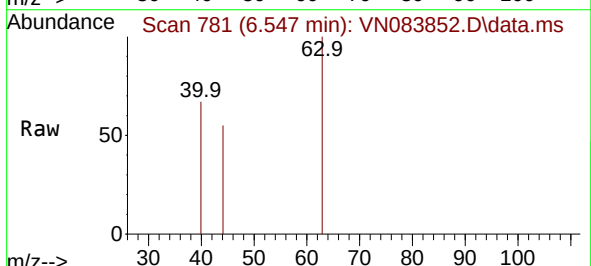
Tgt Ion: 63 Resp: 982

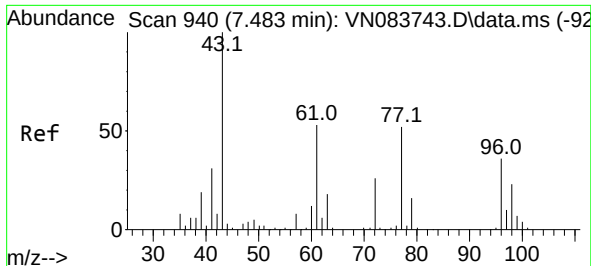
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

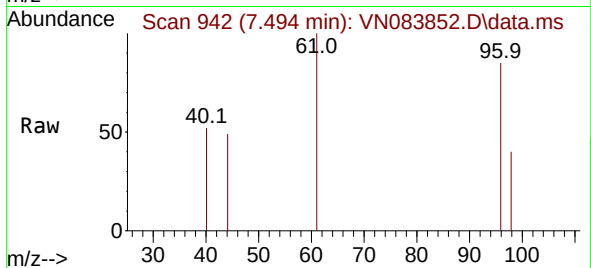
100 0.0 2.5 7.5#



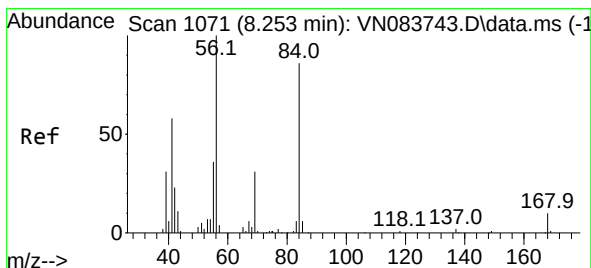
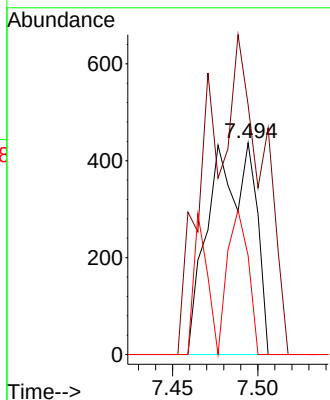
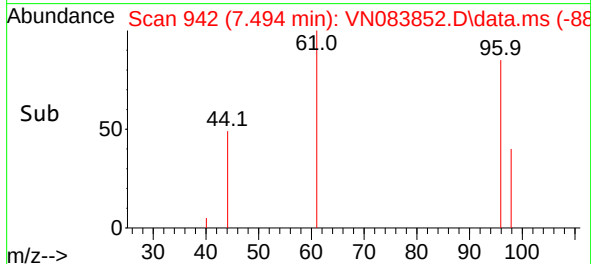


#27
 cis-1,2-Dichloroethene
 Concen: 0.499 ug/l
 RT: 7.494 min Scan# 94
 Delta R.T. 0.012 min
 Lab File: VN083852.D
 Acq: 13 Sep 2024 04:37

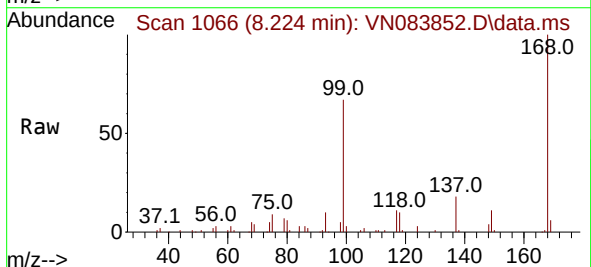
Instrument :
 MSVOA_N
 ClientSampleId :



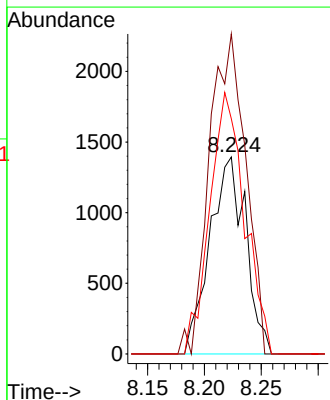
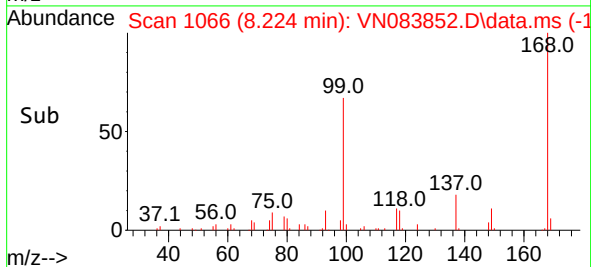
Tgt Ion:	96	Resp:	796
Ion	Ratio	Lower	Upper
96	100		
61	182.5	0.0	306.2
98	31.8	0.0	128.6

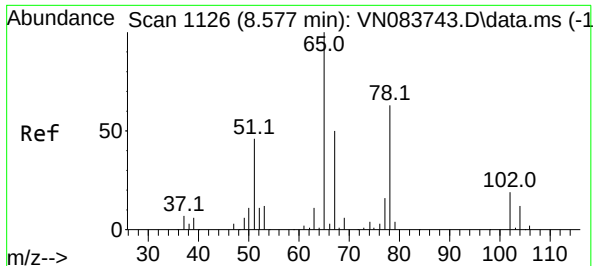


#31
 Cyclohexane
 Concen: 1.209 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.029 min
 Lab File: VN083852.D
 Acq: 13 Sep 2024 04:37



Tgt Ion:	56	Resp:	3055
Ion	Ratio	Lower	Upper
56	100		
69	162.5	26.9	40.3#
84	119.4	69.2	103.8#





#33

1,2-Dichloroethane-d4

Concen: 55.639 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

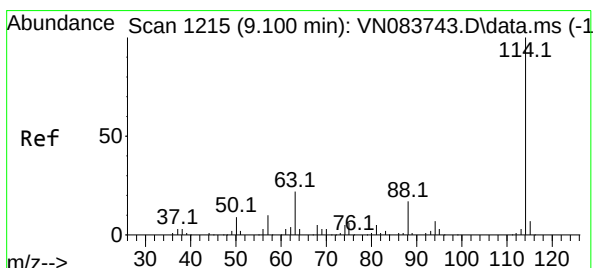
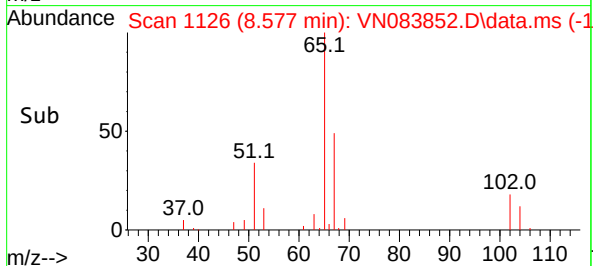
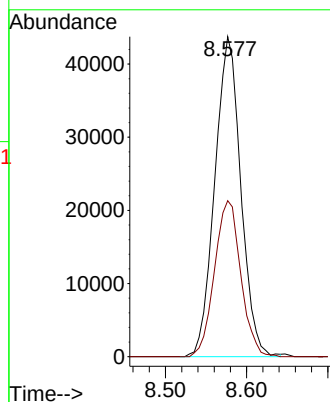
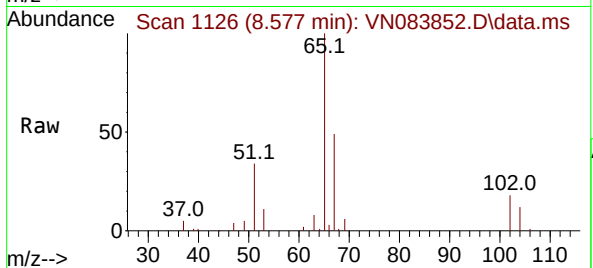
ClientSampleId :

Tgt Ion: 65 Resp: 97289

Ion Ratio Lower Upper

65 100

67 49.3 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

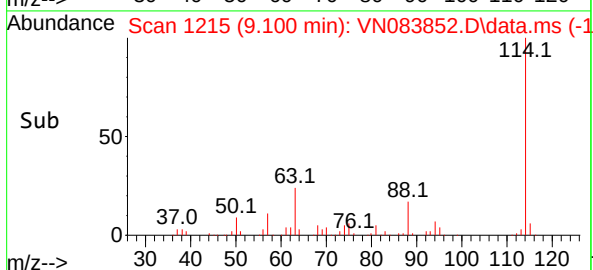
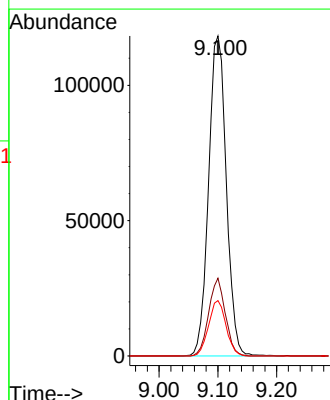
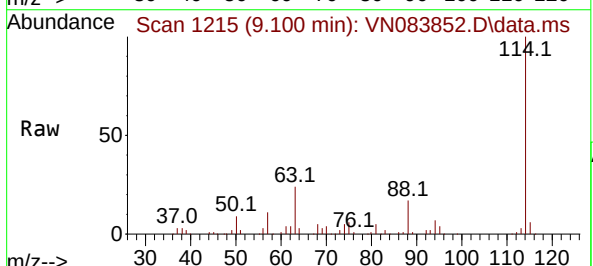
Tgt Ion: 114 Resp: 246947

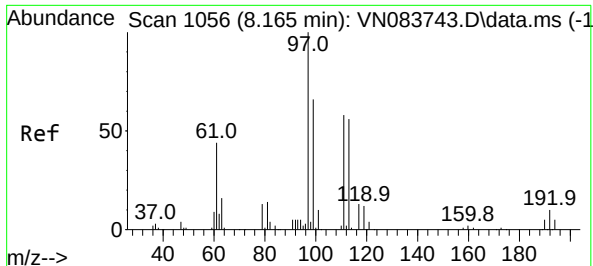
Ion Ratio Lower Upper

114 100

63 24.3 0.0 43.4

88 17.3 0.0 32.6

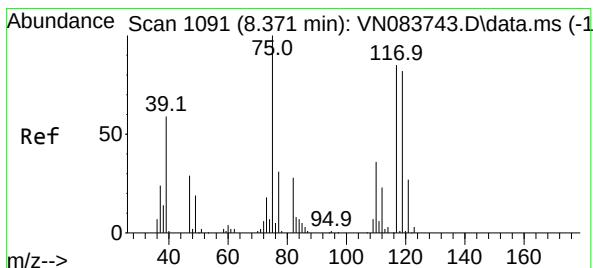
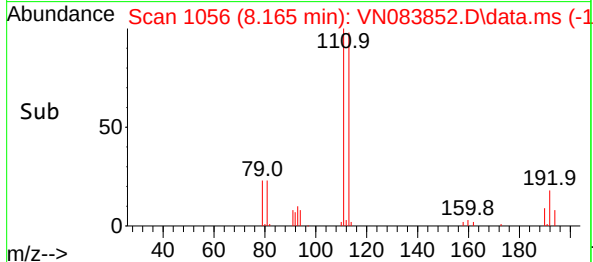
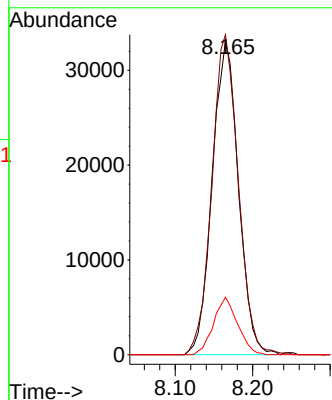
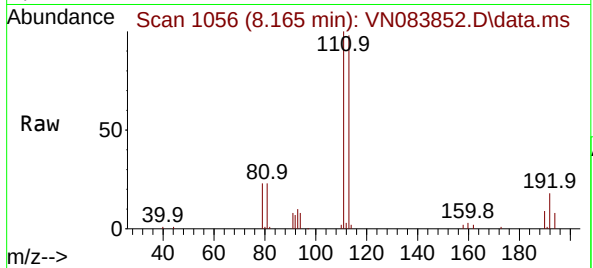




#35
Dibromofluoromethane
Concen: 49.238 ug/l
RT: 8.165 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

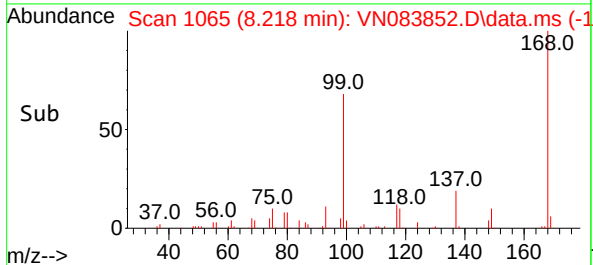
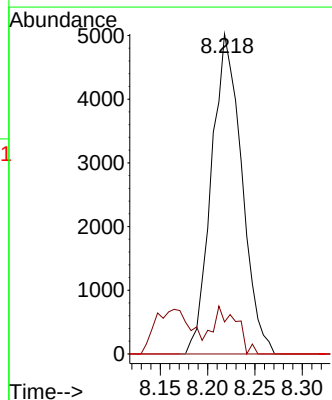
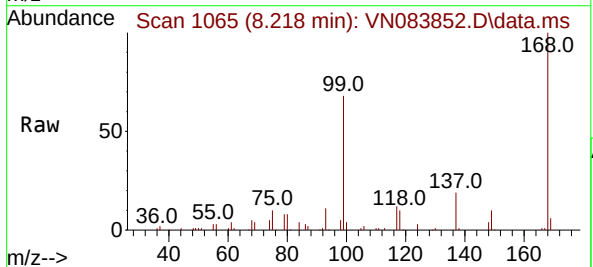
Instrument :
MSVOA_N
ClientSampleId :

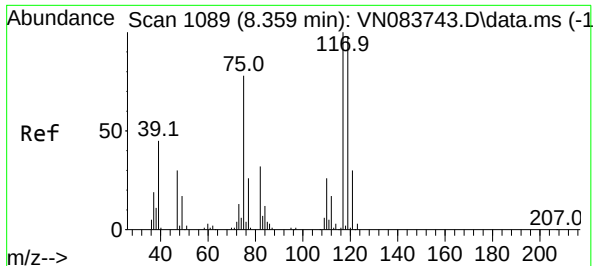
Tgt Ion:113 Resp: 77841
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 16.7 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.701 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

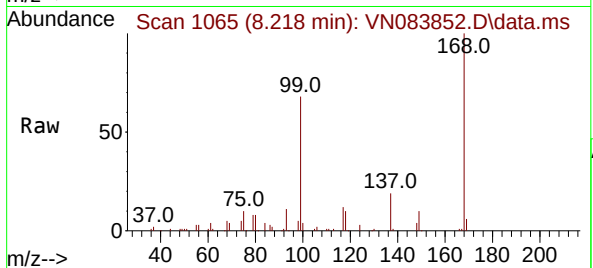
Tgt Ion: 75 Resp: 11187
Ion Ratio Lower Upper
75 100
110 11.9 16.7 50.1#
77 0.0 25.2 37.8#



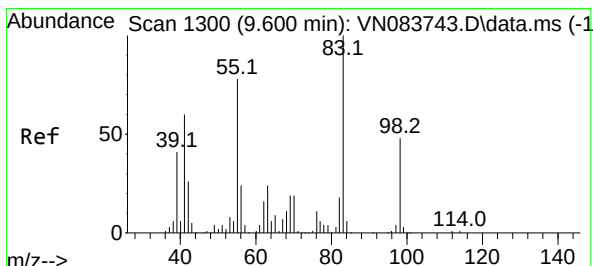
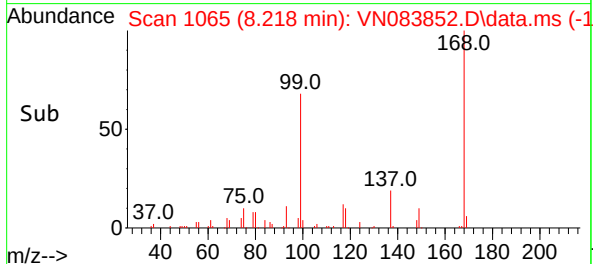
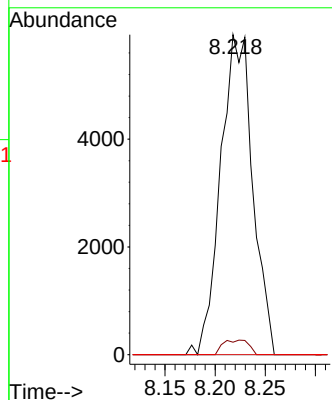


#38
Carbon Tetrachloride
Concen: 4.890 ug/l
RT: 8.218 min Scan# 117
Delta R.T. -0.141 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Instrument :
MSVOA_N
ClientSampleId :

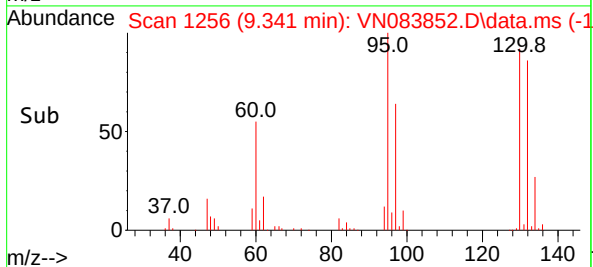
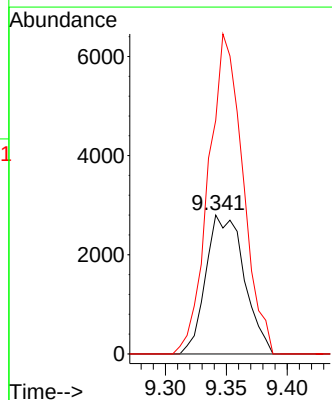
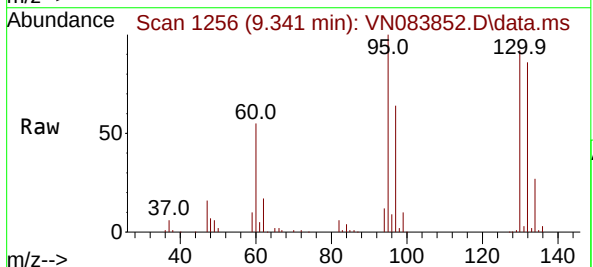


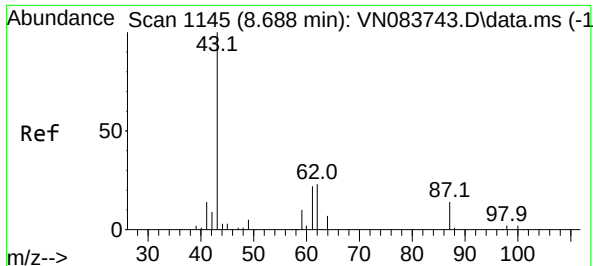
Tgt Ion:117 Resp: 13202
Ion Ratio Lower Upper
117 100
119 3.9 76.1 114.1#
121 0.0 24.1 36.1#



#39
Methylcyclohexane
Concen: 2.260 ug/l
RT: 9.341 min Scan# 1256
Delta R.T. -0.259 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion: 83 Resp: 6120
Ion Ratio Lower Upper
83 100
55 0.0 62.2 93.4#
98 168.3 37.6 56.4#





#43

Isopropyl Acetate

Concen: 0.973 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.024 min

Lab File: VN083852.D

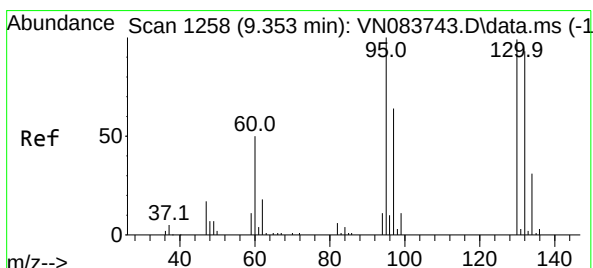
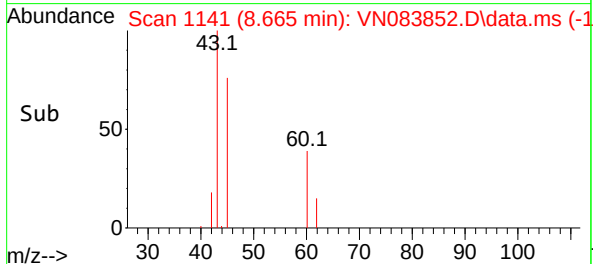
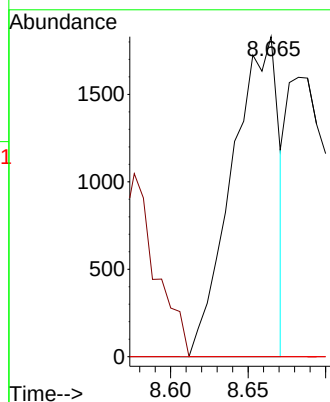
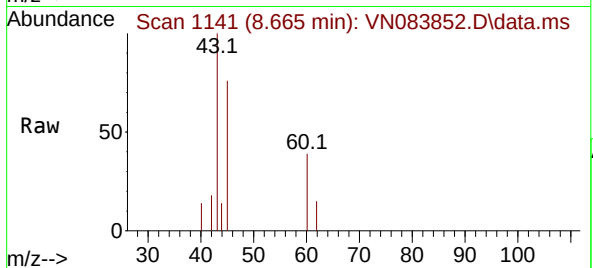
Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp:	3810
Ion Ratio	Lower	Upper
43	100	
61	0.0	19.4
87	0.0	9.8



#44

Trichloroethene

Concen: 273.994 ug/l

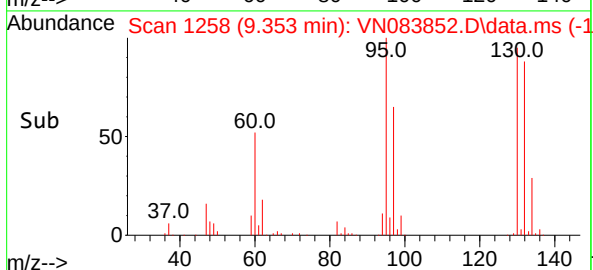
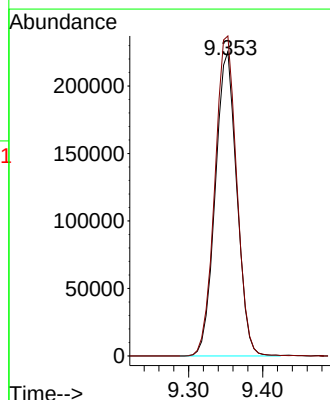
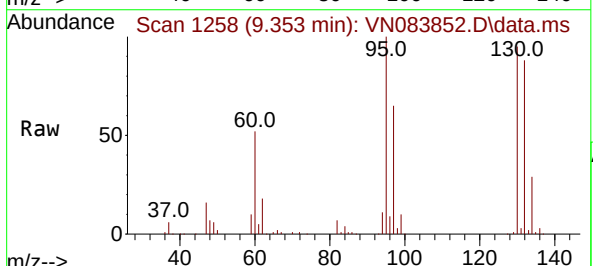
RT: 9.353 min Scan# 1258

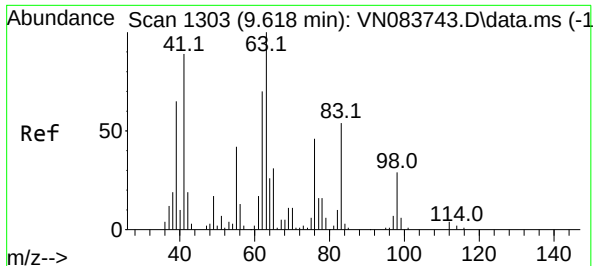
Delta R.T. -0.000 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Tgt Ion: 130	Resp:	454430
Ion Ratio	Lower	Upper
130	100	
95	105.2	0.0





#45

1,2-Dichloropropane

Concen: 1.009 ug/l

RT: 9.347 min Scan# 1

Delta R.T. -0.271 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

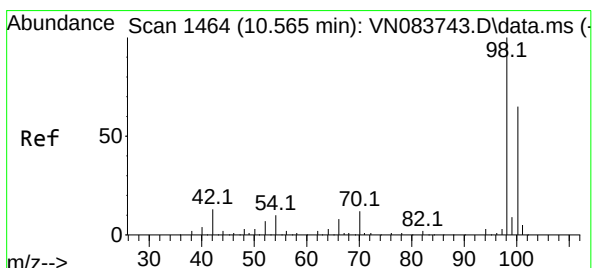
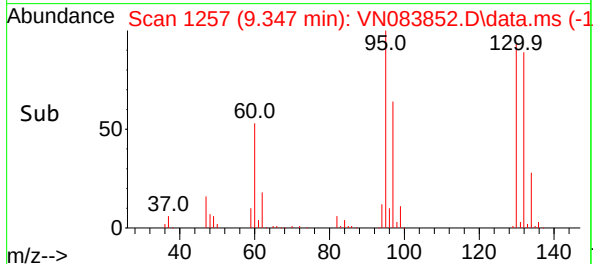
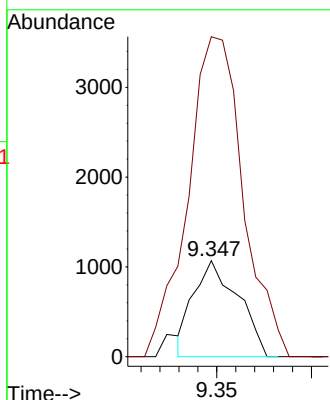
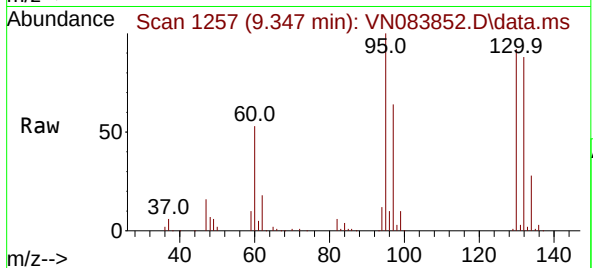
ClientSampleId :

Tgt Ion: 63 Resp: 1746

Ion Ratio Lower Upper

63 100

65 305.3 25.9 38.9#



#50

Toluene-d8

Concen: 51.153 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083852.D

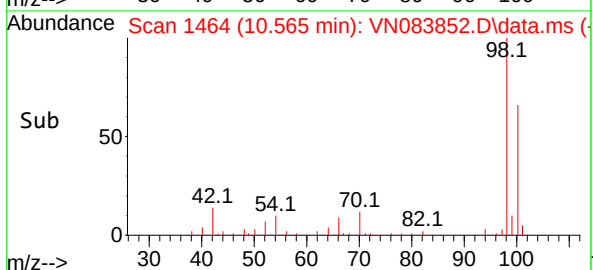
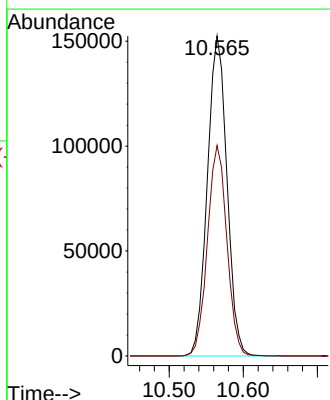
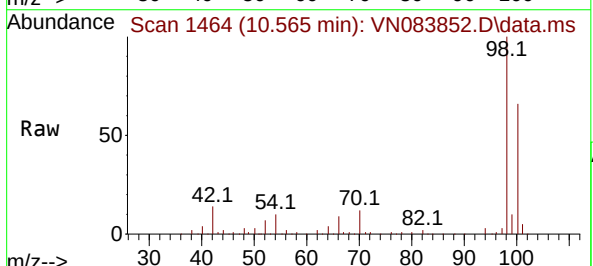
Acq: 13 Sep 2024 04:37

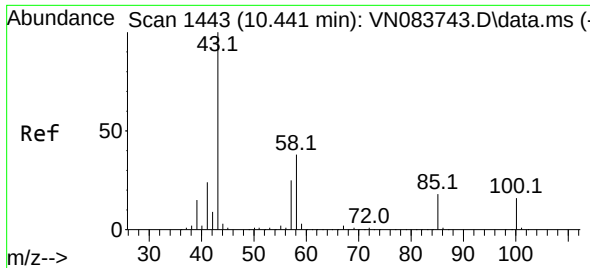
Tgt Ion: 98 Resp: 279570

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0

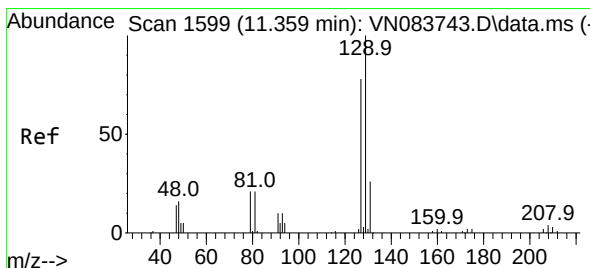
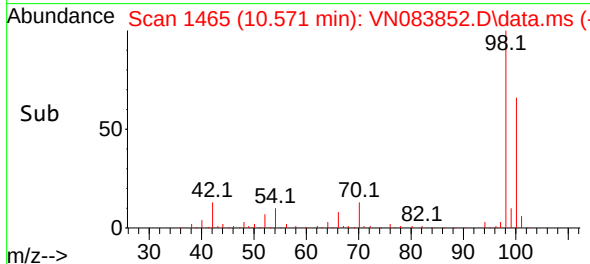
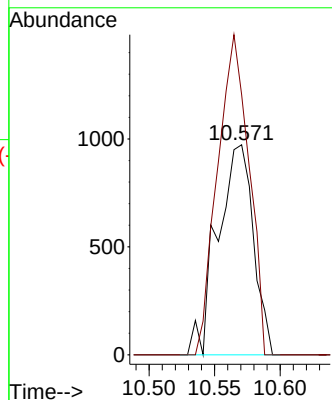
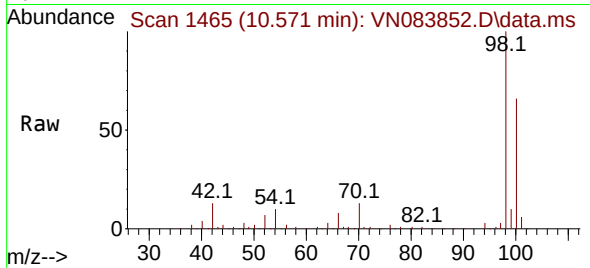




#51
4-Methyl-2-Pentanone
Concen: 0.865 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.129 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

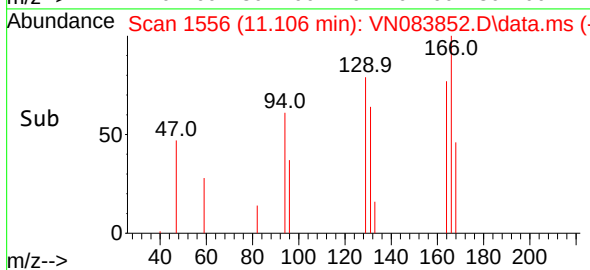
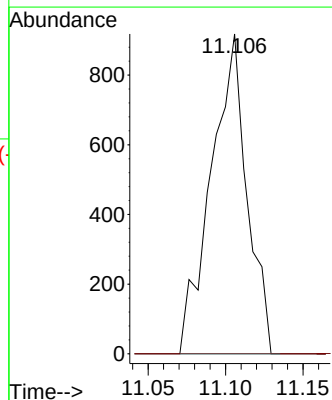
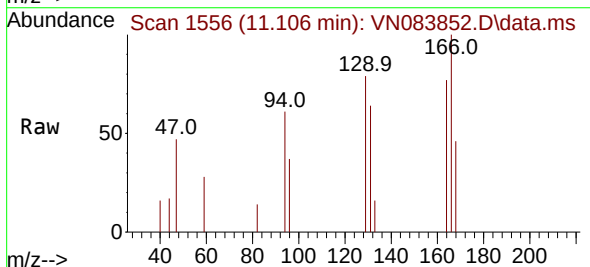
Instrument :
MSVOA_N
ClientSampleId :

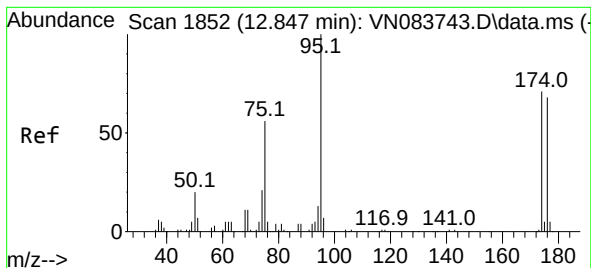
Tgt Ion: 43 Resp: 1844
Ion Ratio Lower Upper
43 100
58 133.8 31.6 47.4#



#60
Dibromochloromethane
Concen: 0.808 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion: 129 Resp: 1479
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#

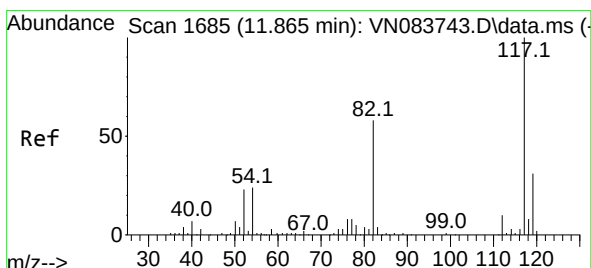
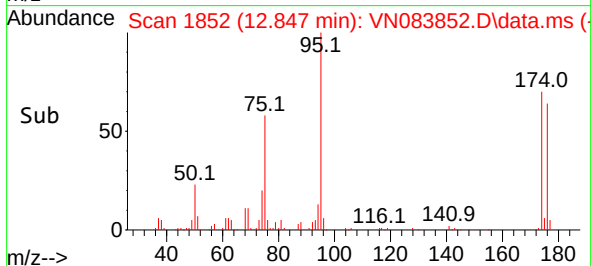
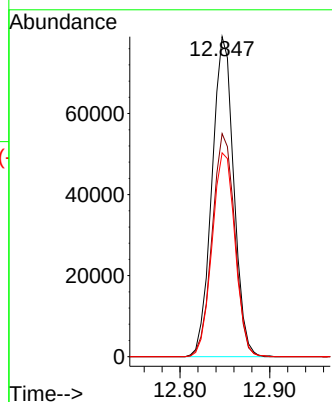
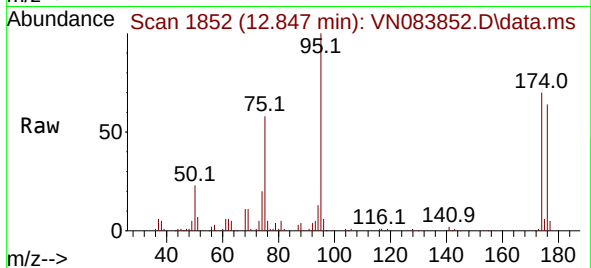




#62
4-Bromofluorobenzene
Concen: 59.023 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

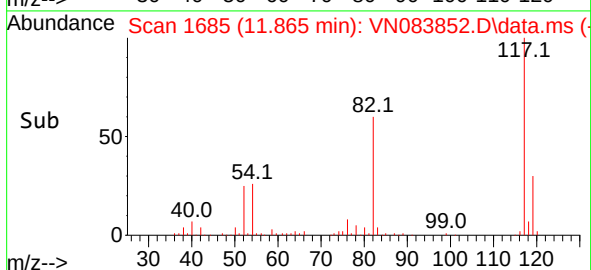
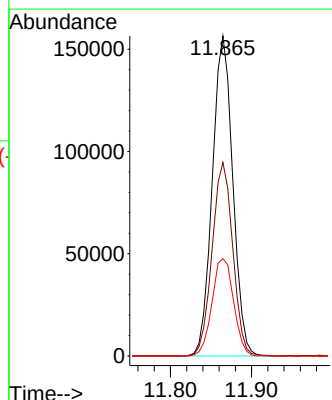
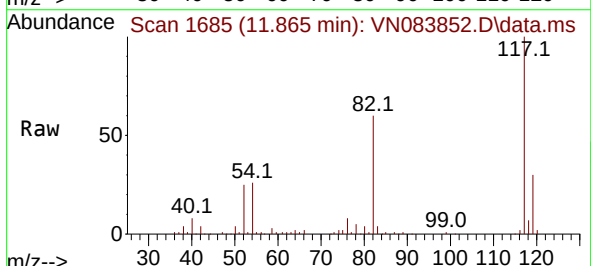
Instrument :
MSVOA_N
ClientSampleId :

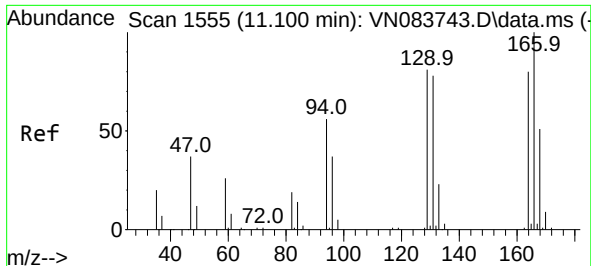
Tgt Ion: 95 Resp: 133088
Ion Ratio Lower Upper
95 100
174 72.0 0.0 139.8
176 67.2 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

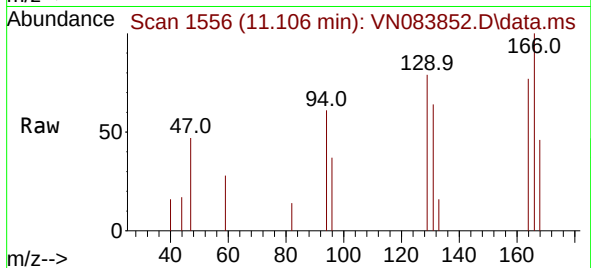
Tgt Ion: 117 Resp: 274043
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.0
119 30.4 26.3 39.5



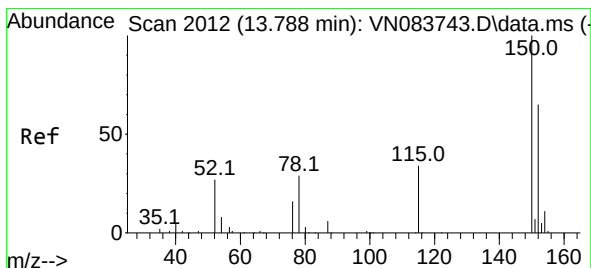
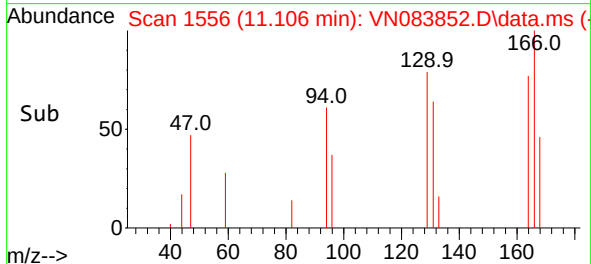
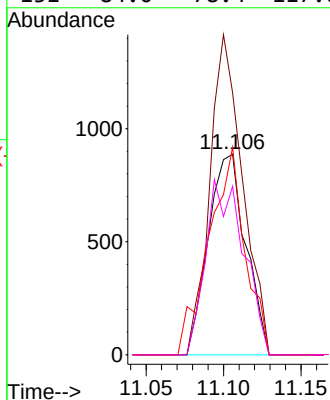


#64
Tetrachloroethene
Concen: 0.817 ug/l
RT: 11.106 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Instrument :
MSVOA_N
ClientSampleId :

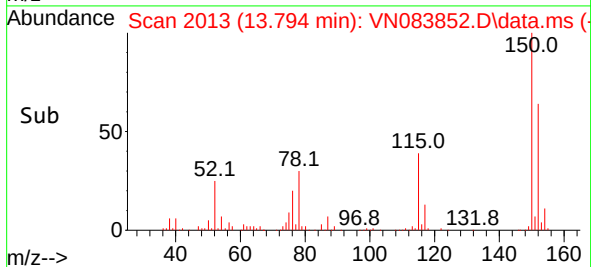
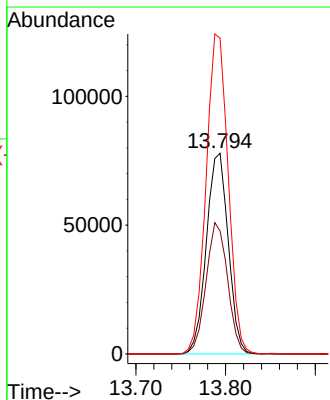
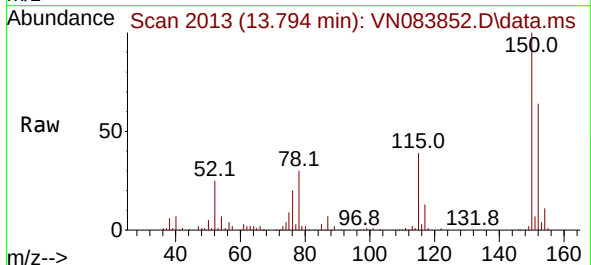


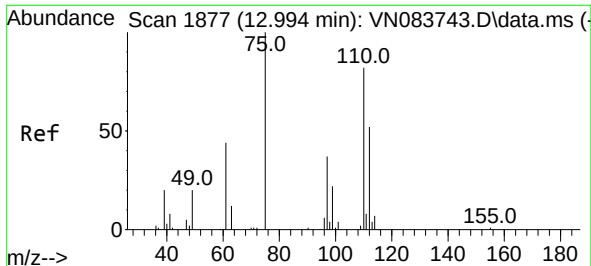
Tgt Ion:164 Resp: 1489
Ion Ratio Lower Upper
164 100
166 130.7 103.7 155.5
129 103.5 79.9 119.9
131 84.0 78.4 117.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion:152 Resp: 132016
Ion Ratio Lower Upper
152 100
115 64.4 32.2 96.6
150 160.6 0.0 348.6

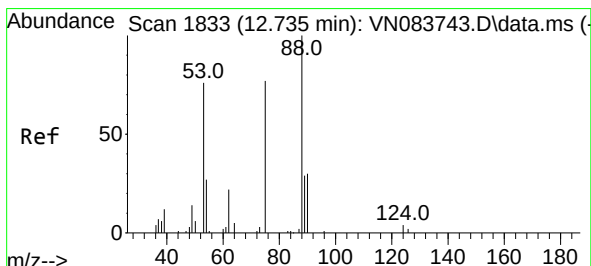
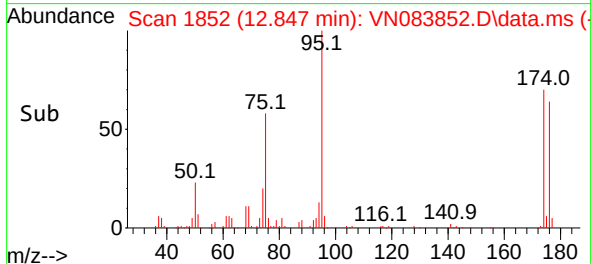
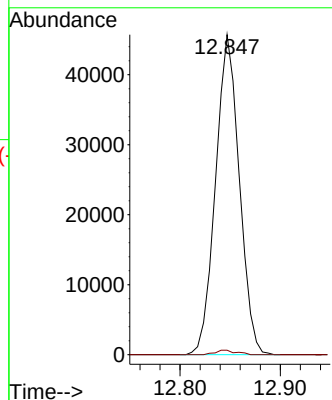
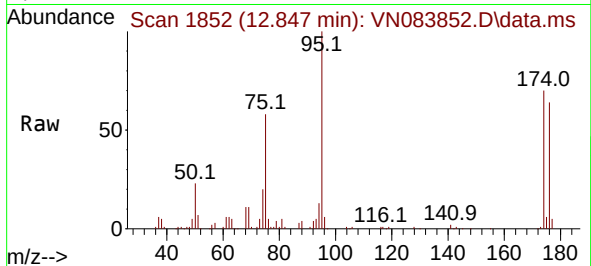




#76
1,2,3-Trichloropropane
Concen: 28.218 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

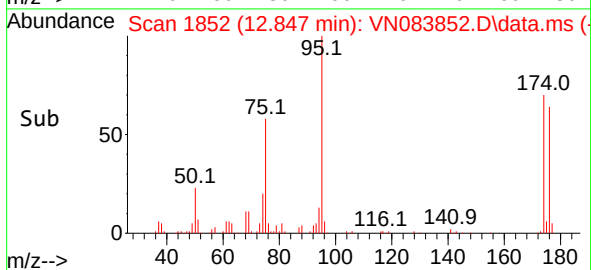
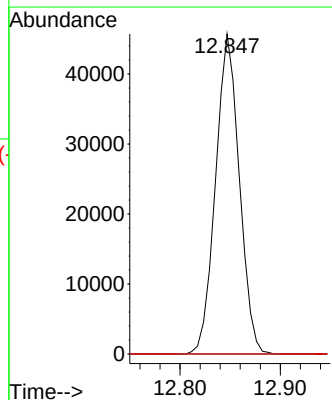
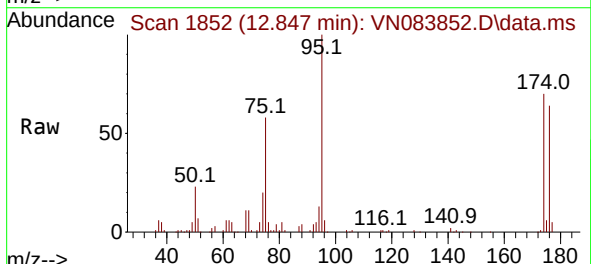
Instrument :
MSVOA_N
ClientSampleId :

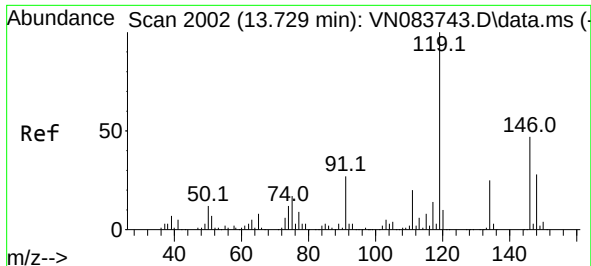
Tgt Ion: 75 Resp: 75168
Ion Ratio Lower Upper
75 100
77 1.2 95.2 285.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.905 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN083852.D
Acq: 13 Sep 2024 04:37

Tgt Ion: 75 Resp: 75168
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#





#87

1,3-Dichlorobenzene

Concen: 0.268 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. 0.012 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

ClientSampleId :

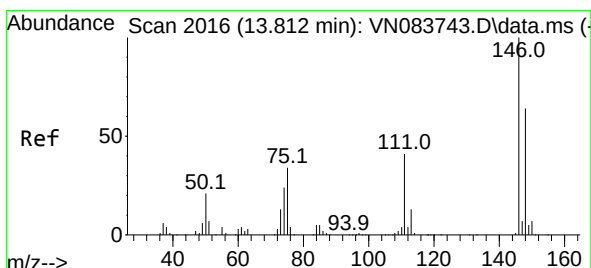
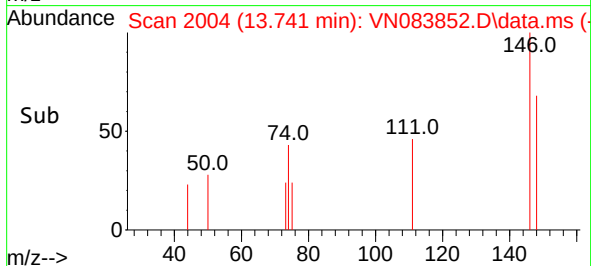
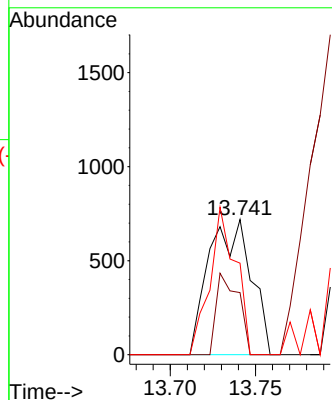
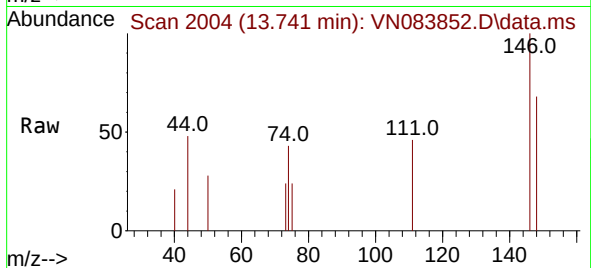
Tgt Ion:146 Resp: 1244

Ion Ratio Lower Upper

146 100

111 31.3 21.7 65.1

148 66.5 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 0.265 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. -0.071 min

Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

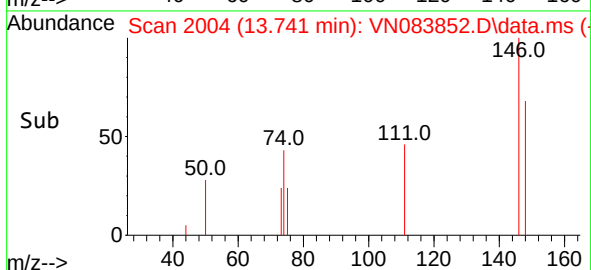
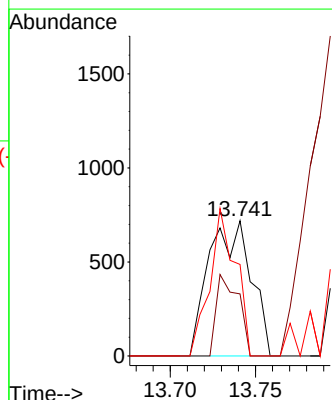
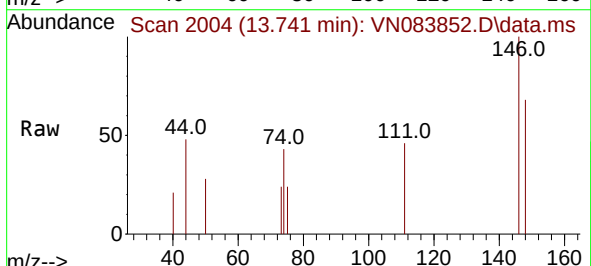
Tgt Ion:146 Resp: 1244

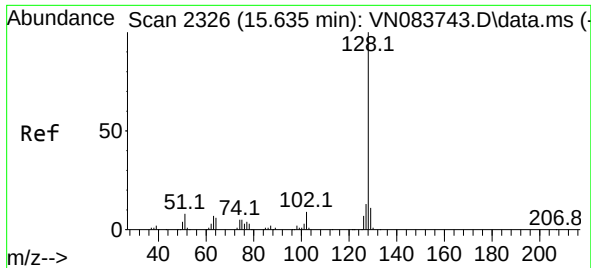
Ion Ratio Lower Upper

146 100

111 31.3 21.3 64.0

148 66.5 32.0 96.2





#95

Naphthalene

Concen: 0.285 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.012 min

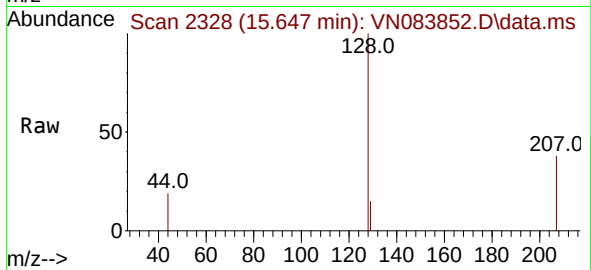
Lab File: VN083852.D

Acq: 13 Sep 2024 04:37

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 2084

Ion Ratio Lower Upper

128 100

127 6.1 10.2 15.2#

129 2.6 8.7 13.1#

