

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092921\
 Data File : VN068751.D
 Acq On : 29 Sep 2021 20:21
 Operator : JC/MD
 Sample : M3915-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 29 23:43:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092921W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 29 23:31:35 2021
 Response via : Initial Calibration

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

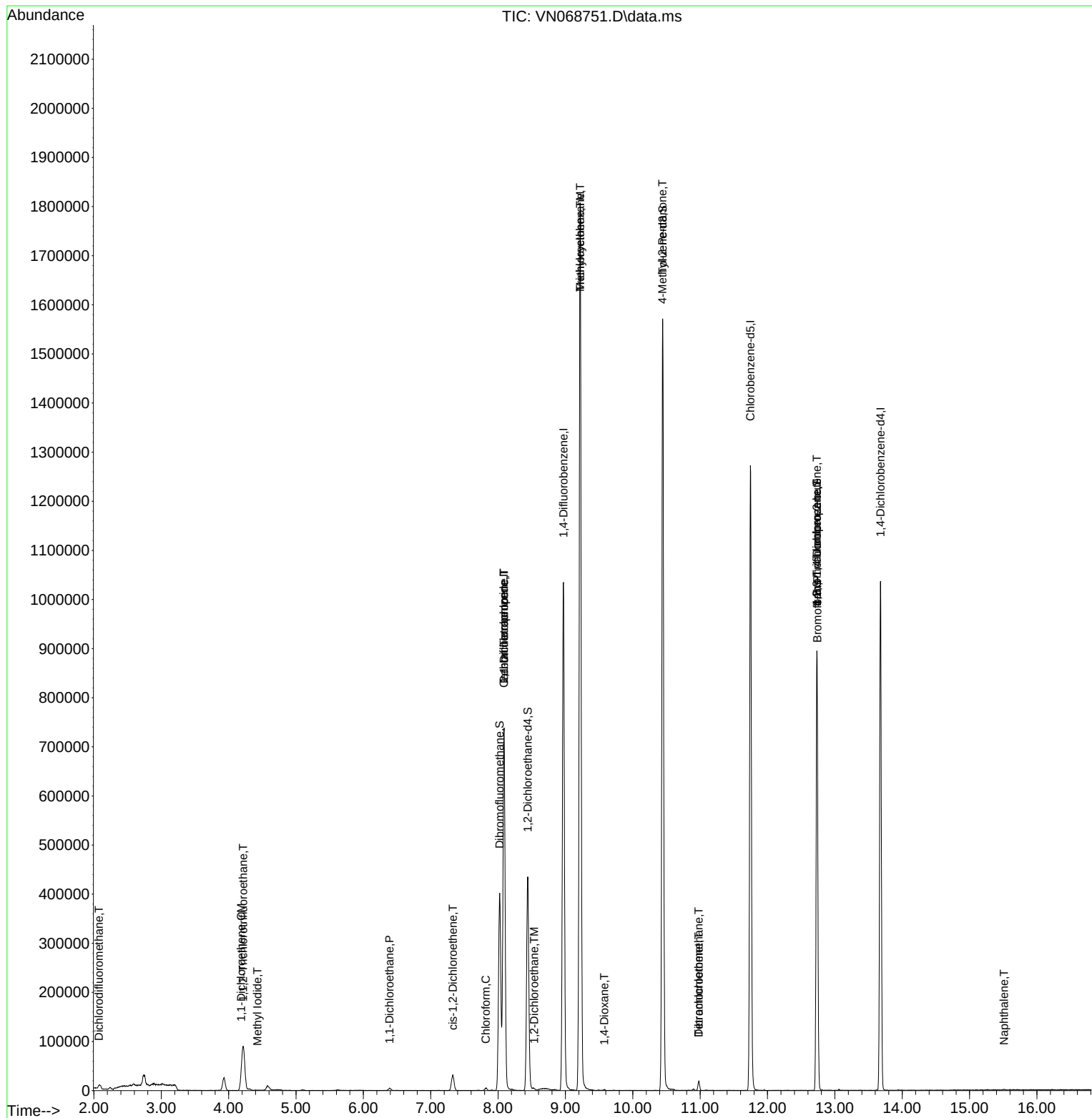
Internal Standards						
1) Pentafluorobenzene	8.088	168	532150	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	909250	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	724472	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	264548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	359266	48.454	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.900%		
35) Dibromofluoromethane	8.024	113	287079	50.816	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	101.640%		
50) Toluene-d8	10.443	98	1087426	52.675	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.360%		
62) 4-Bromofluorobenzene	12.734	95	291170	40.591	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	81.180%		
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.075	85	6273	1.076	ug/l	94
3) Chloromethane	2.309	50	1533	Below Cal		96
5) Bromomethane	2.834	94	104	Below Cal	#	4
6) Chloroethane	3.017	64	159	Below Cal	#	1
7) Trichlorofluoromethane	3.371	101	185	Below Cal	#	18
9) 1,1,2-Trichlorotrifluo...	4.216	101	54156	9.280	ug/l	93
10) Methyl Iodide	4.427	142	25	1.356	ug/l	# 33
12) 1,1-Dichloroethene	4.189	96	9648	1.930	ug/l	# 75
13) Acrolein	4.031	56	88	Below Cal	#	14
16) Acetone	4.288	43	1328	Below Cal	#	80
17) Carbon Disulfide	4.535	76	439	Below Cal	#	74
24) 1,1-Dichloroethane	6.388	63	7202	0.645	ug/l	# 85
27) cis-1,2-Dichloroethene	7.329	96	18051	2.497	ug/l	75
30) Chloroform	7.817	83	4654	0.354	ug/l	88
31) Cyclohexane	8.091	56	14129	Below Cal	#	36
36) 1,1-Dichloropropene	8.088	75	46250	5.408	ug/l	# 52
38) Carbon Tetrachloride	8.086	117	58349	5.744	ug/l	# 17
39) Methylcyclohexane	9.217	83	8271	0.834	ug/l	# 1
42) 1,2-Dichloroethane	8.536	62	2550	0.249	ug/l	# 79
44) Trichloroethene	9.217	130	608365	87.529	ug/l	85
49) 1,4-Dioxane	9.577	88	1235	12.200	ug/l	# 71
51) 4-Methyl-2-Pentanone	10.440	43	4992	0.553	ug/l	# 1
60) Dibromochloromethane	10.977	129	3977	0.511	ug/l	# 11
64) Tetrachloroethene	10.980	164	4116	0.761	ug/l	# 82
71) Bromoform	12.739	173	1114	0.247	ug/l	# 1
76) 1,2,3-Trichloropropane	12.734	75	170366	28.958	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.734	75	170366	84.180	ug/l	# 6
95) Naphthalene	15.512	128	1449	1.560	ug/l	# 71

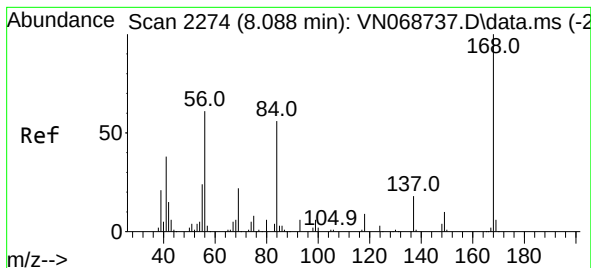
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

Lab File: VN068751.D

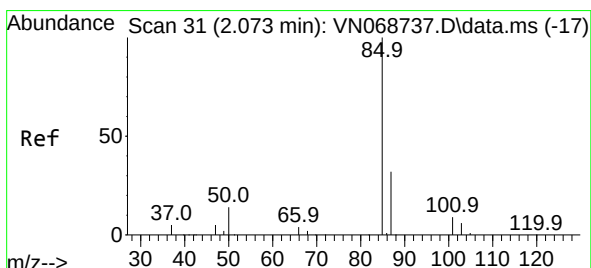
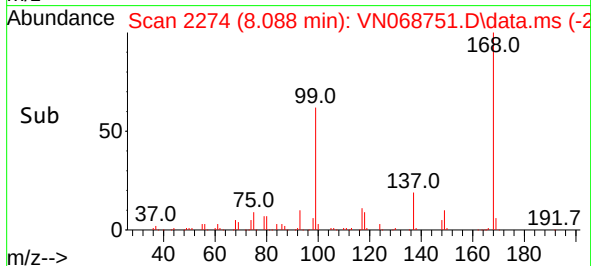
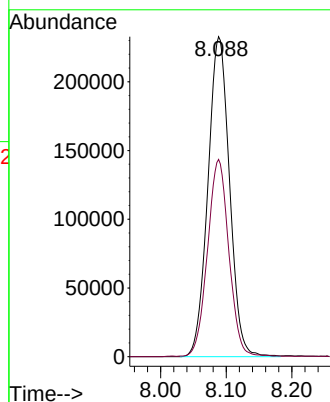
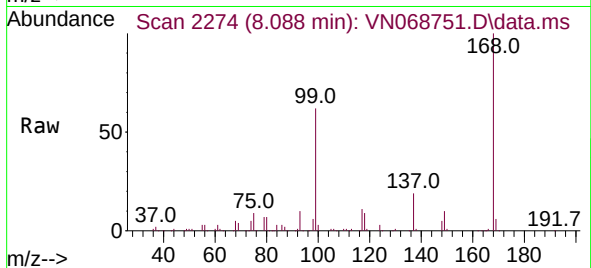
Acq: 29 Sep 2021 20:21

Tgt Ion:168 Resp: 532150

Ion Ratio Lower Upper

168 100

99 61.4 62.9 94.3#



#2

Dichlorodifluoromethane

Concen: 1.076 ug/l

RT: 2.075 min Scan# 32

Delta R.T. 0.002 min

Lab File: VN068751.D

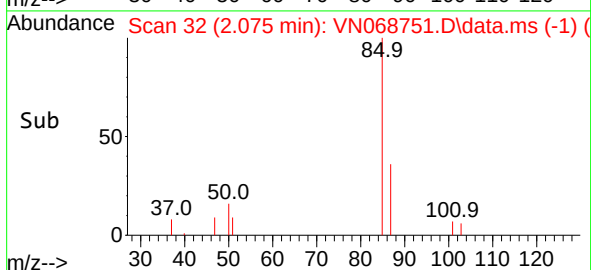
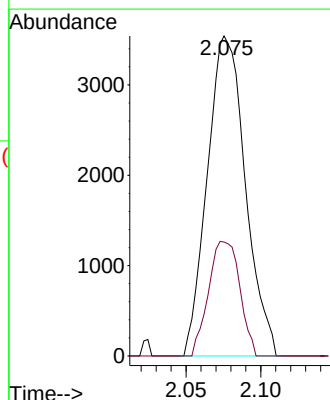
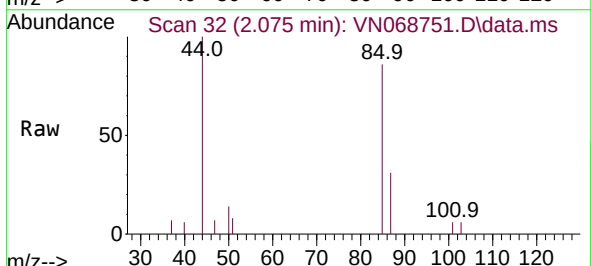
Acq: 29 Sep 2021 20:21

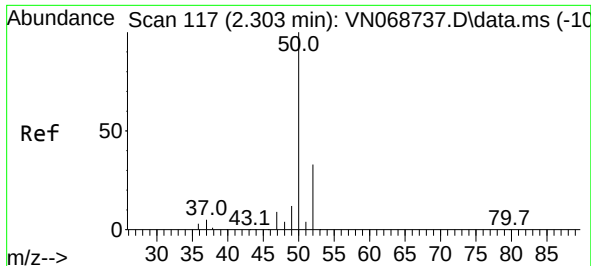
Tgt Ion: 85 Resp: 6273

Ion Ratio Lower Upper

85 100

87 35.6 16.1 48.2





#3

Chloromethane

Concen: Below Cal

RT: 2.309 min Scan# 119

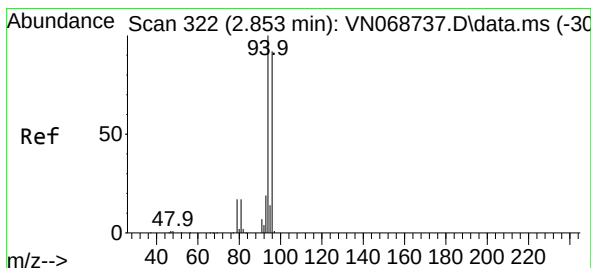
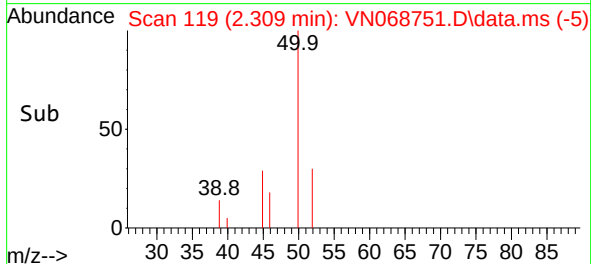
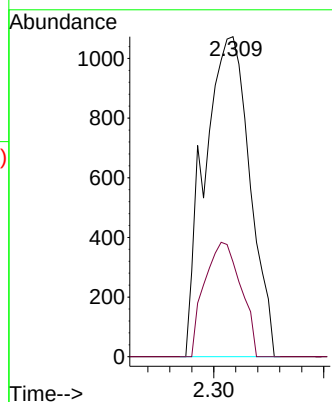
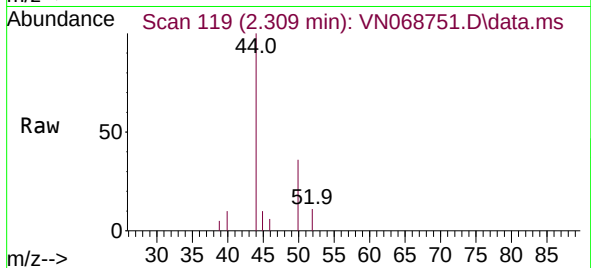
Delta R.T. 0.006 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 50 Resp: 1533
Ion Ratio Lower Upper
50 100
52 29.6 25.6 38.4



#5

Bromomethane

Concen: Below Cal

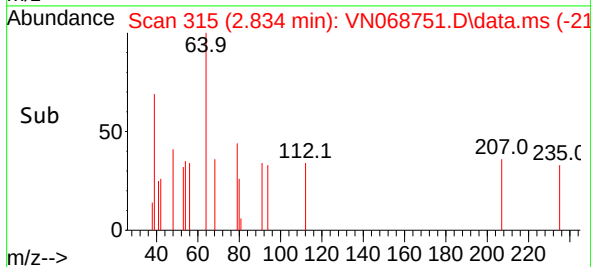
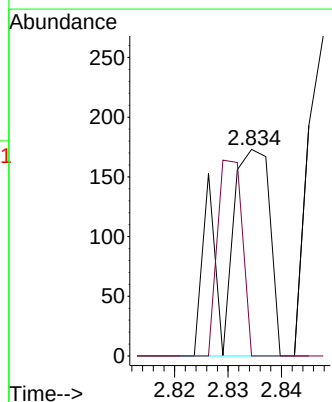
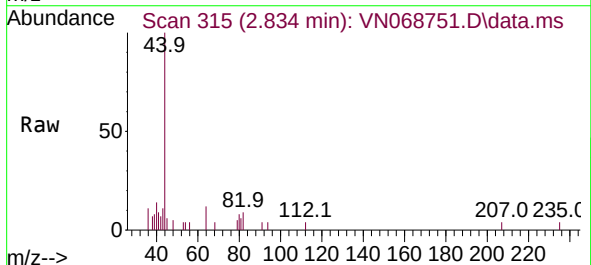
RT: 2.834 min Scan# 315

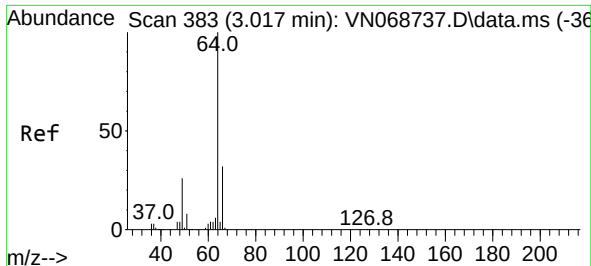
Delta R.T. -0.019 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

Tgt Ion: 94 Resp: 104
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#

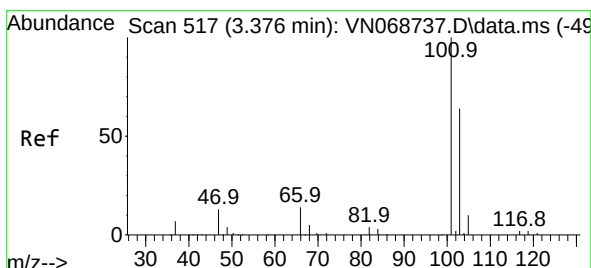
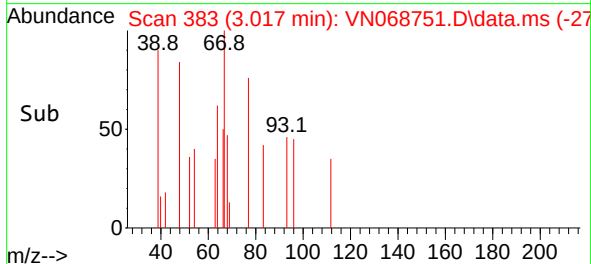
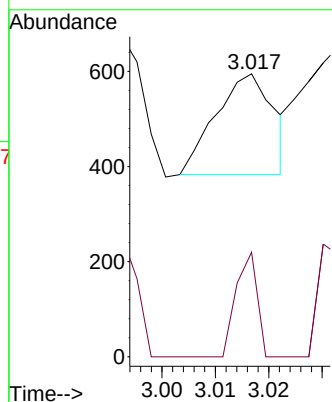
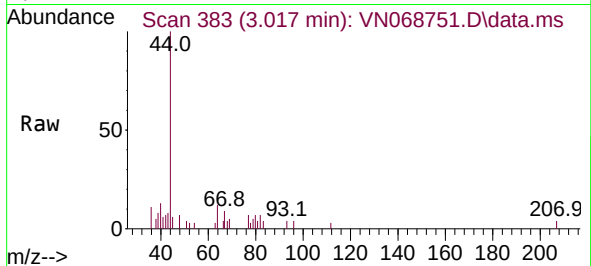




#6
Chloroethane
Concen: Below Cal
RT: 3.017 min Scan# 383
Delta R.T. -0.000 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

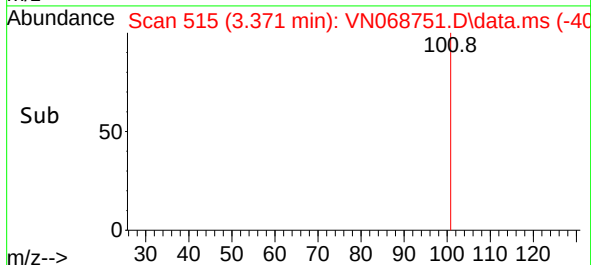
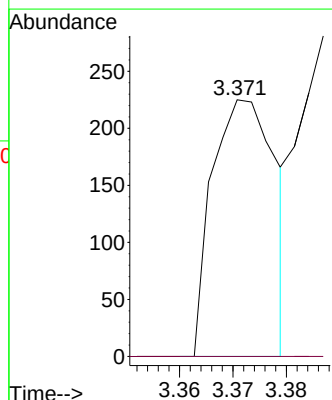
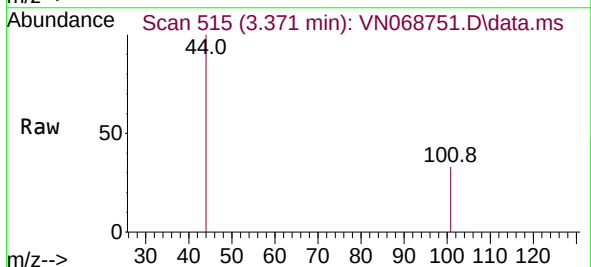
Instrument :
MSVOA_N
ClientSampleId :

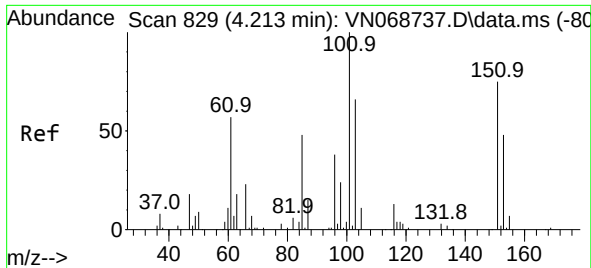
Tgt Ion: 64 Resp: 159
Ion Ratio Lower Upper
64 100
66 103.8 24.7 37.1#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.371 min Scan# 515
Delta R.T. -0.005 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion:101 Resp: 185
Ion Ratio Lower Upper
101 100
103 0.0 51.2 76.8#

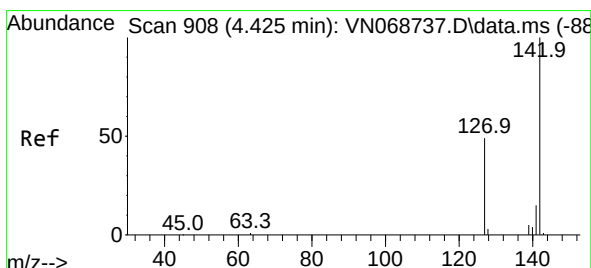
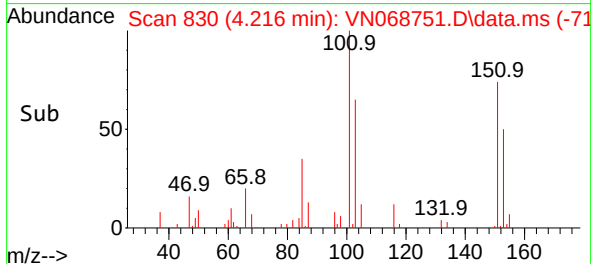
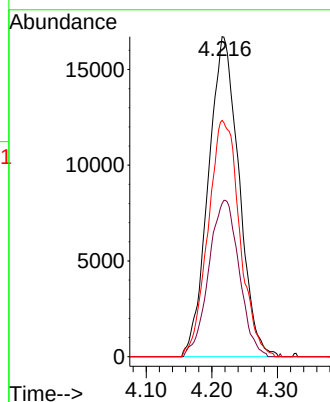
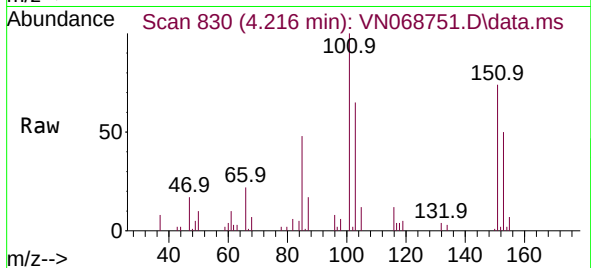




#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.280 ug/l
RT: 4.216 min Scan# 830
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

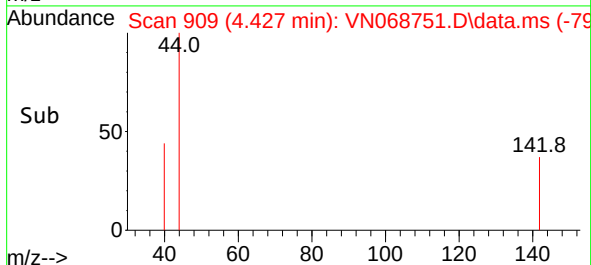
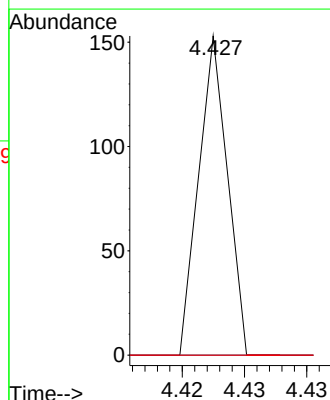
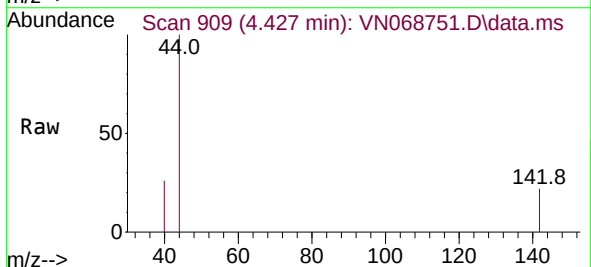
Instrument :
MSVOA_N
ClientSampled :

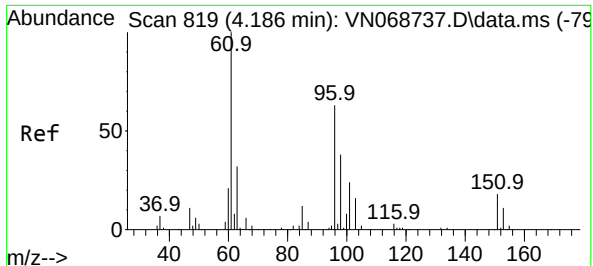
Tgt Ion:101 Resp: 54156
Ion Ratio Lower Upper
101 100
85 48.6 39.6 59.4
151 76.1 54.1 81.1



#10
Methyl Iodide
Concen: 1.356 ug/l
RT: 4.427 min Scan# 909
Delta R.T. 0.002 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion:142 Resp: 25
Ion Ratio Lower Upper
142 100
127 0.0 43.1 64.7#
141 0.0 11.4 17.0#





#12

1,1-Dichloroethene

Concen: 1.930 ug/l

RT: 4.189 min Scan# 820

Delta R.T. 0.003 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

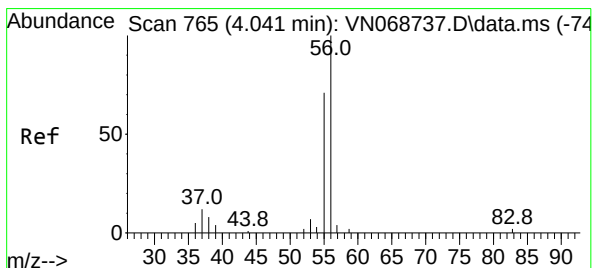
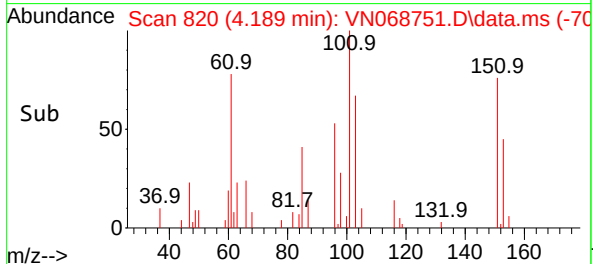
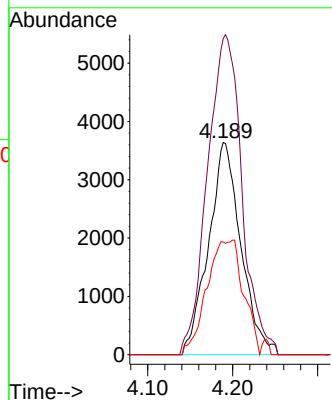
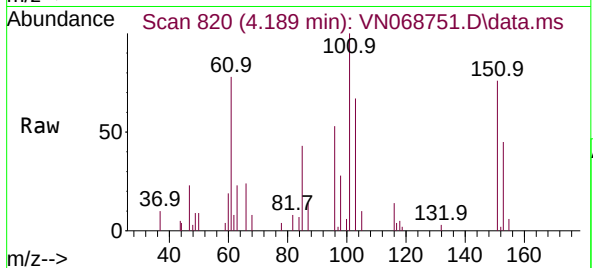
Tgt Ion: 96 Resp: 9648

Ion Ratio Lower Upper

96 100

61 149.0 152.6 229.0#

98 53.1 50.9 76.3



#13

Acrolein

Concen: Below Cal

RT: 4.031 min Scan# 761

Delta R.T. -0.010 min

Lab File: VN068751.D

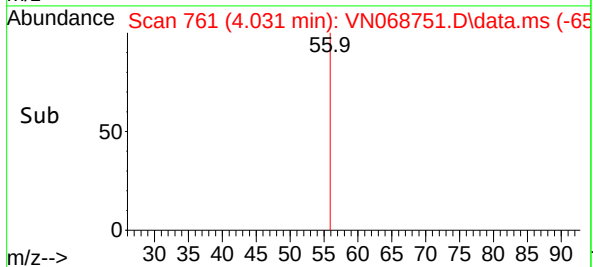
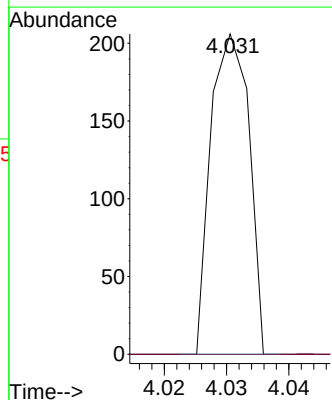
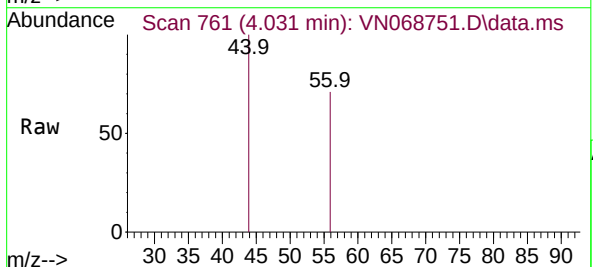
Acq: 29 Sep 2021 20:21

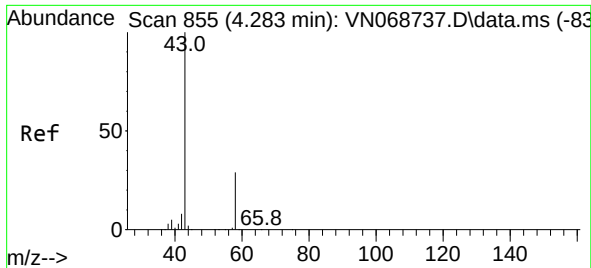
Tgt Ion: 56 Resp: 88

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#

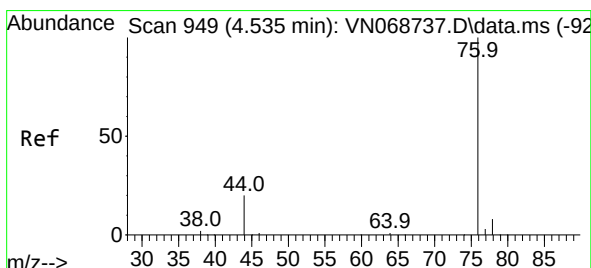
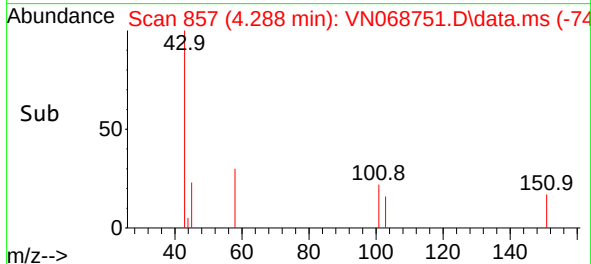
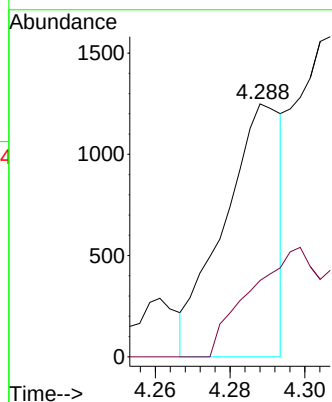
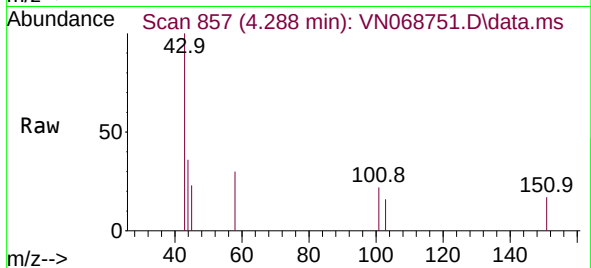




#16
Acetone
Concen: Below Cal
RT: 4.288 min Scan# 857
Delta R.T. 0.005 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

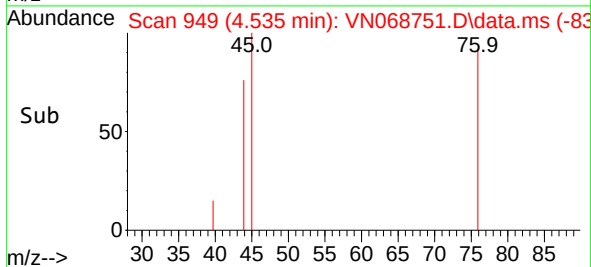
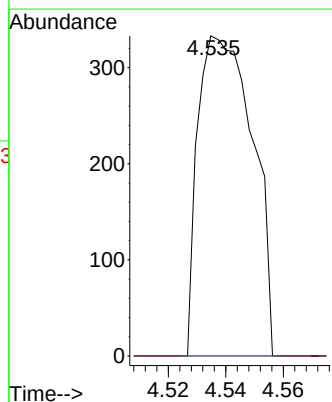
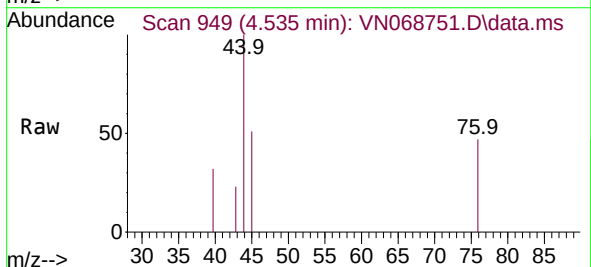
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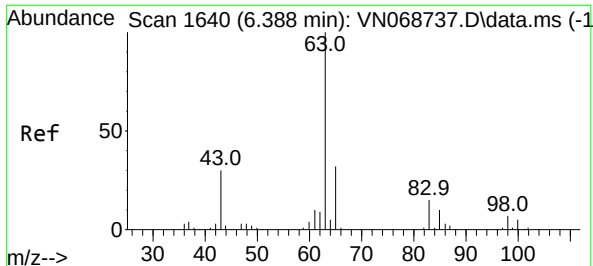
Tgt Ion: 43 Resp: 1328
Ion Ratio Lower Upper
43 100
58 36.6 21.2 31.8#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.535 min Scan# 949
Delta R.T. -0.000 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 76 Resp: 439
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#





#24

1,1-Dichloroethane

Concen: 0.645 ug/l

RT: 6.388 min Scan# 1640

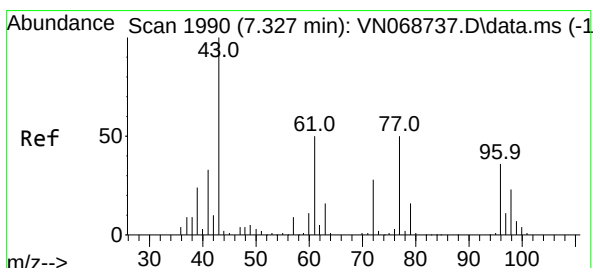
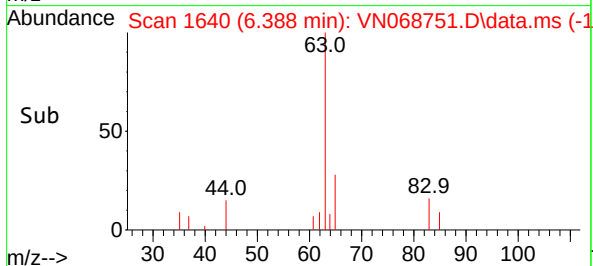
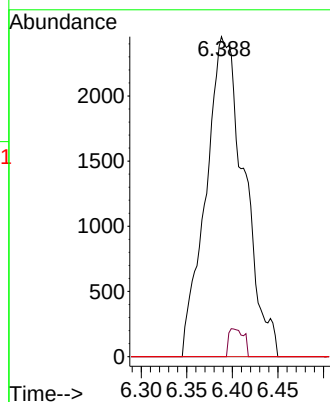
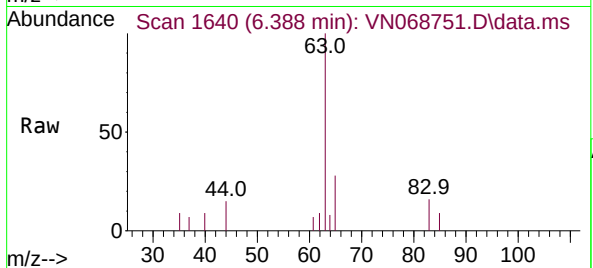
Delta R.T. 0.000 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

Tgt Ion:	63	Resp:	7202
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.0	9.0#
100	0.0	1.9	5.7#

Instrument :
MSVOA_N
ClientSampled :



#27

cis-1,2-Dichloroethene

Concen: 2.497 ug/l

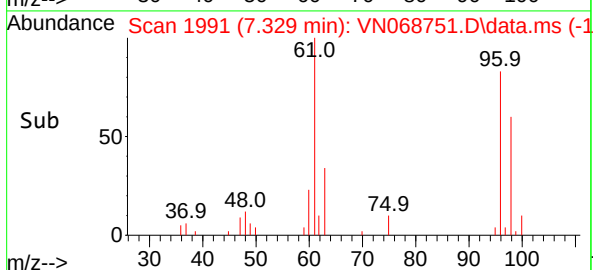
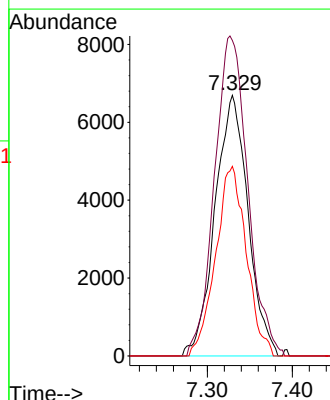
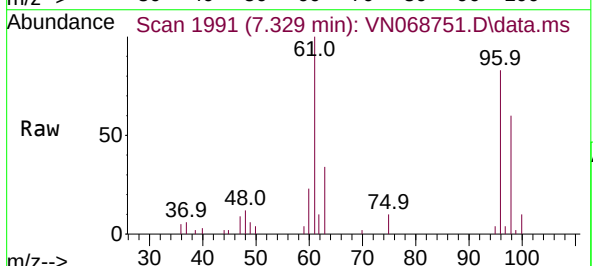
RT: 7.329 min Scan# 1991

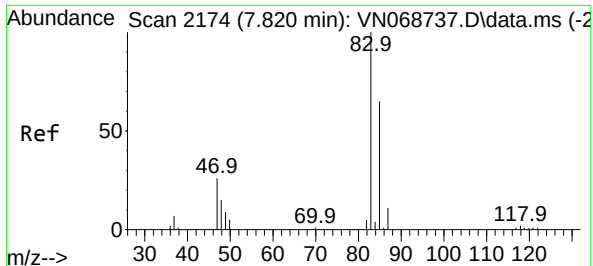
Delta R.T. 0.002 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

Tgt Ion:	96	Resp:	18051
Ion	Ratio	Lower	Upper
96	100		
61	123.8	0.0	338.8
98	67.8	0.0	129.8





#30

Chloroform

Concen: 0.354 ug/l

RT: 7.817 min Scan# 2173

Delta R.T. -0.003 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

Tgt Ion: 83 Resp: 4654

Ion Ratio Lower Upper

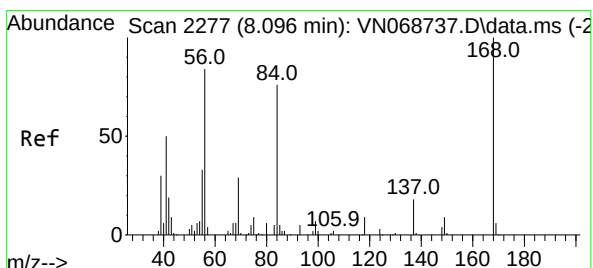
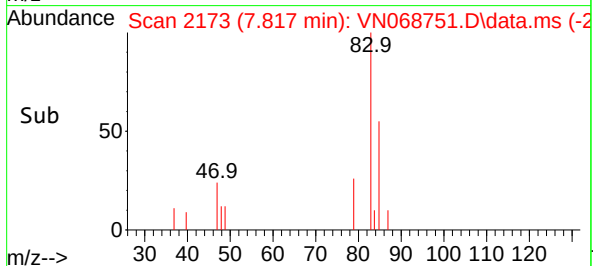
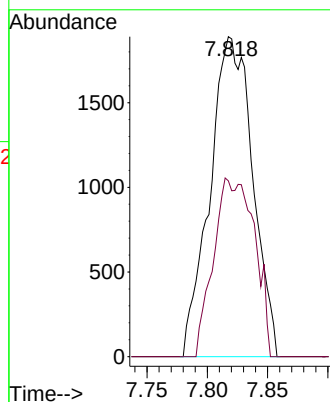
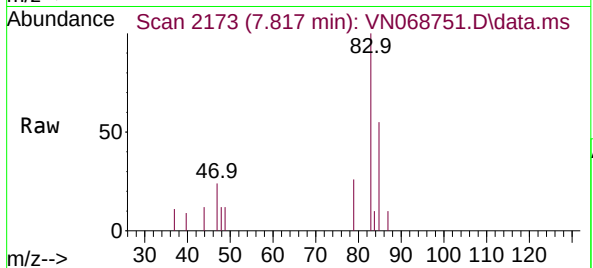
83 100

85 54.9 51.5 77.3

Instrument :

MSVOA_N

ClientSampleId :



#31

Cyclohexane

Concen: Below Cal

RT: 8.091 min Scan# 2275

Delta R.T. -0.005 min

Lab File: VN068751.D

Acq: 29 Sep 2021 20:21

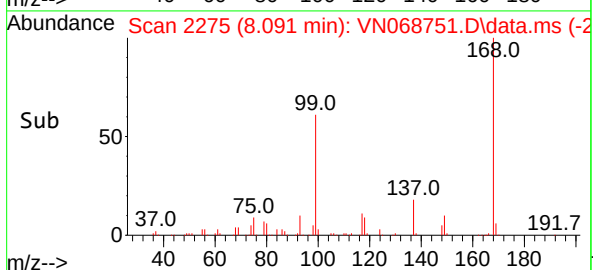
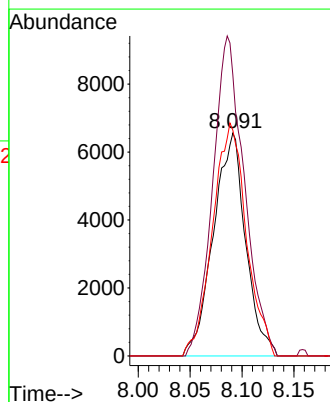
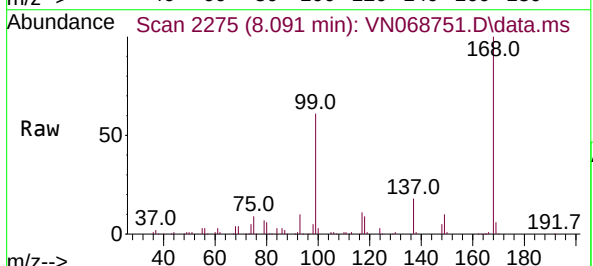
Tgt Ion: 56 Resp: 14129

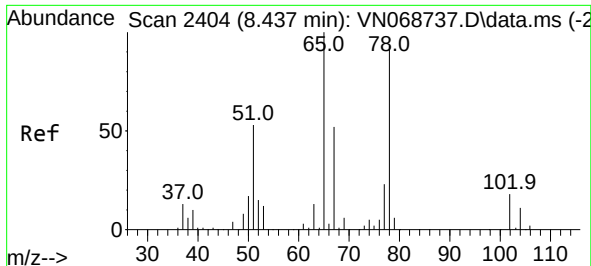
Ion Ratio Lower Upper

56 100

69 126.2 27.3 40.9#

84 101.4 64.9 97.3#



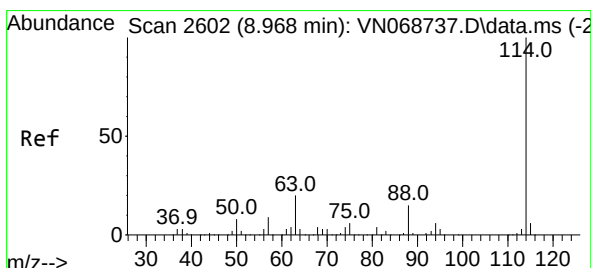
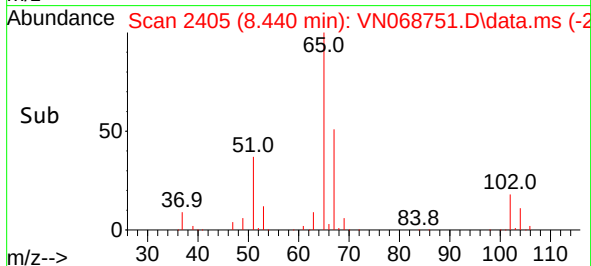
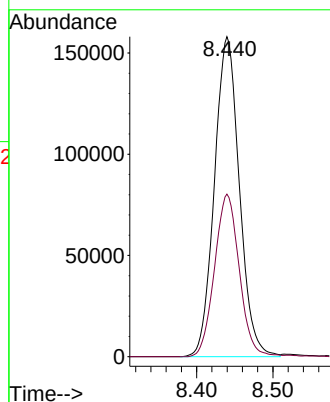
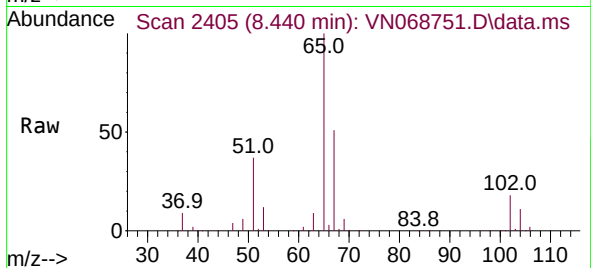


#33

1,2-Dichloroethane-d4
Concen: 48.454 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Instrument :
MSVOA_N
ClientSampled :

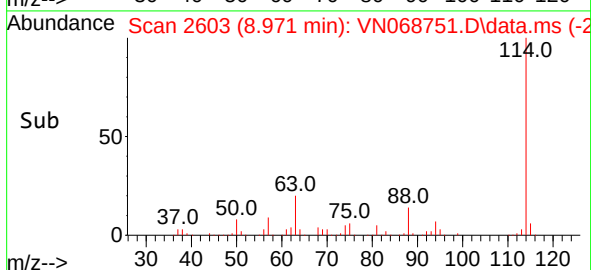
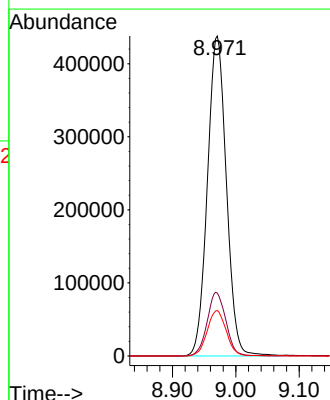
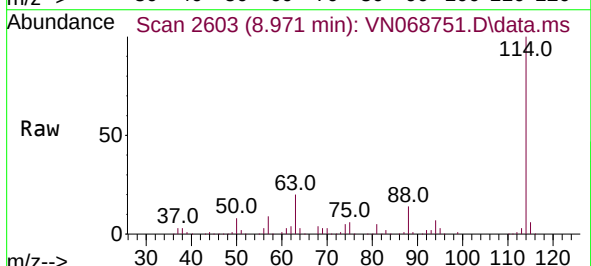
Tgt Ion: 65 Resp: 359266
Ion Ratio Lower Upper
65 100
67 50.3 0.0 98.6

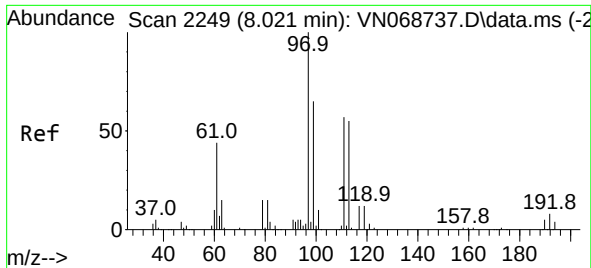


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 114 Resp: 909250
Ion Ratio Lower Upper
114 100
63 19.6 0.0 49.0
88 14.2 0.0 36.6

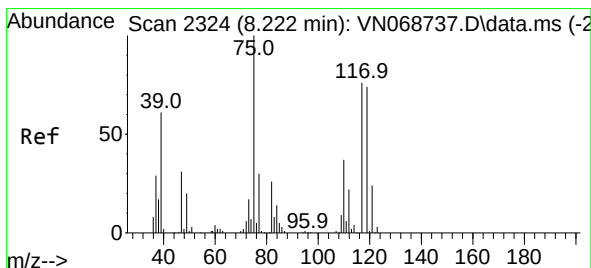
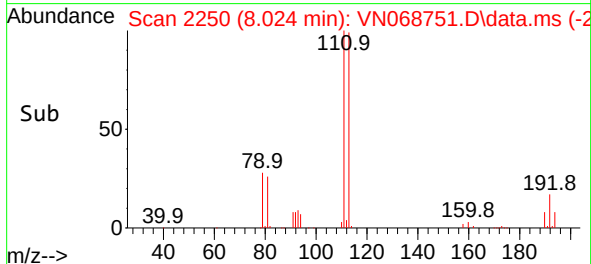
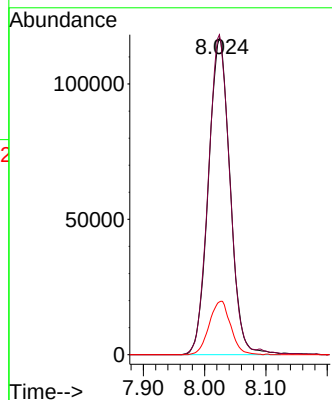
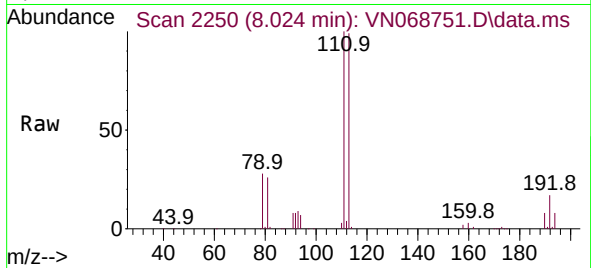




#35
Dibromofluoromethane
Concen: 50.816 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

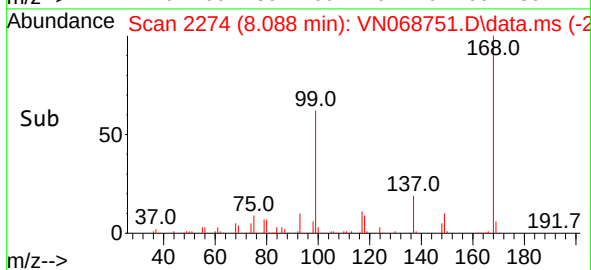
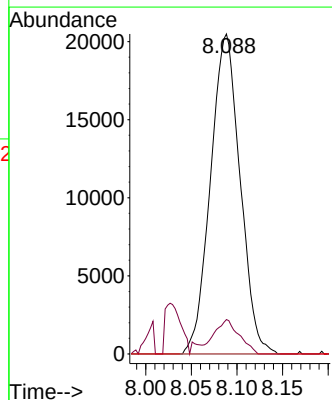
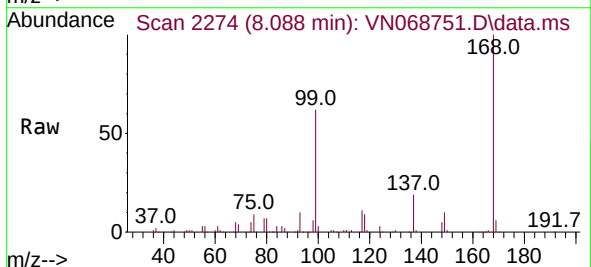
Instrument :
MSVOA_N
ClientSampled :

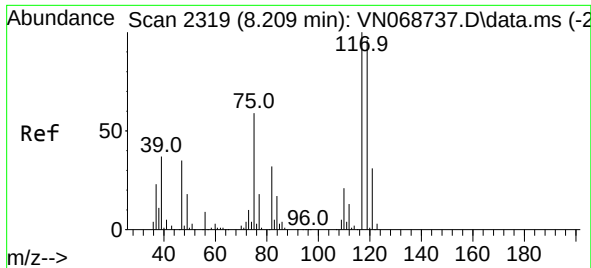
Tgt Ion:113 Resp: 287079
Ion Ratio Lower Upper
113 100
111 99.9 83.8 125.8
192 16.7 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.408 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 75 Resp: 46250
Ion Ratio Lower Upper
75 100
110 9.1 15.7 47.0#
77 0.0 24.6 37.0#

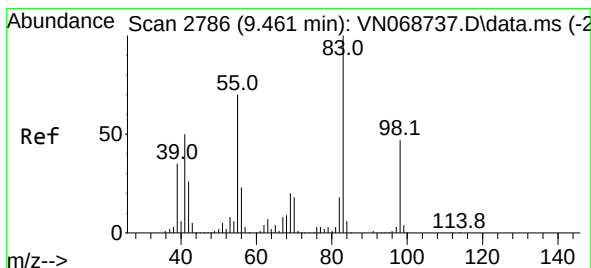
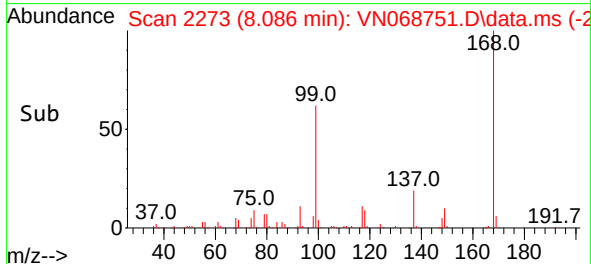
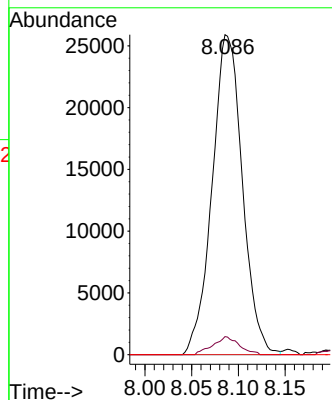
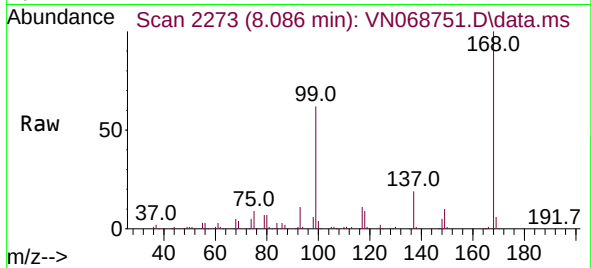




#38
Carbon Tetrachloride
Concen: 5.744 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.123 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

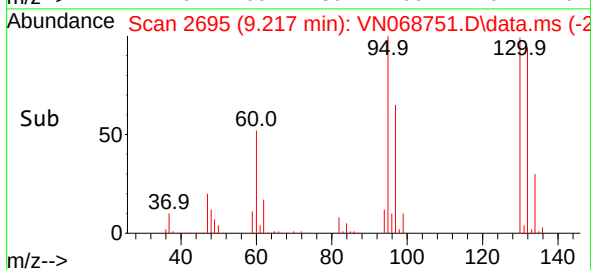
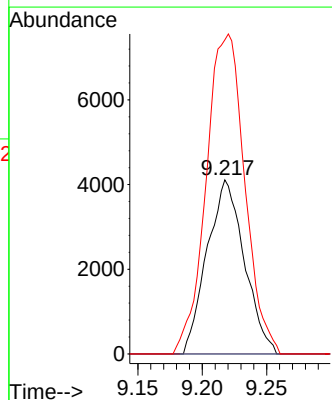
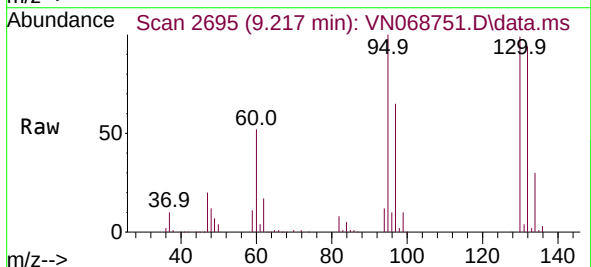
Instrument :
MSVOA_N
ClientSampled :

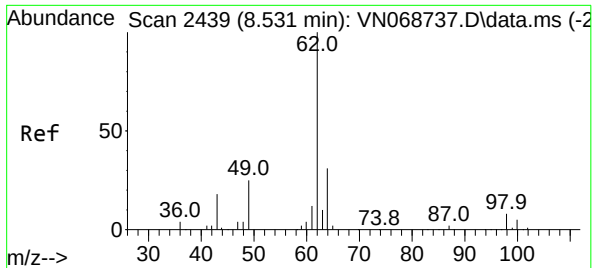
Tgt Ion:117 Resp: 58349
Ion Ratio Lower Upper
117 100
119 5.7 75.4 113.2#
121 0.0 23.5 35.3#



#39
Methylcyclohexane
Concen: 0.834 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. -0.244 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 83 Resp: 8271
Ion Ratio Lower Upper
83 100
55 0.0 66.6 99.8#
98 172.1 35.3 52.9#





#42

1,2-Dichloroethane

Concen: 0.249 ug/l

RT: 8.536 min Scan# 2441

Delta R.T. 0.005 min

Lab File: VN068751.D

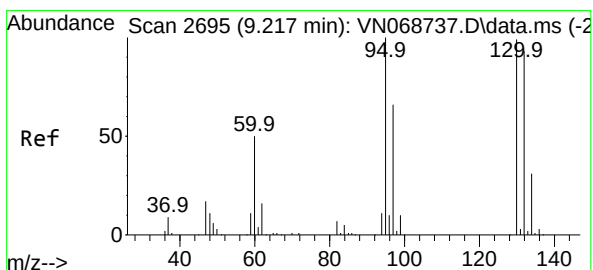
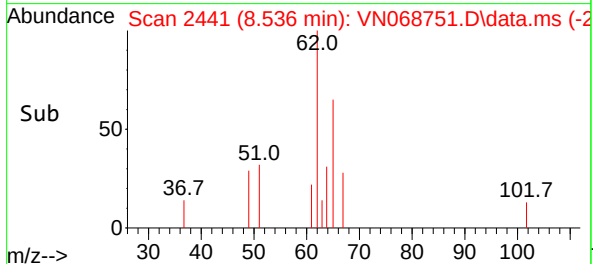
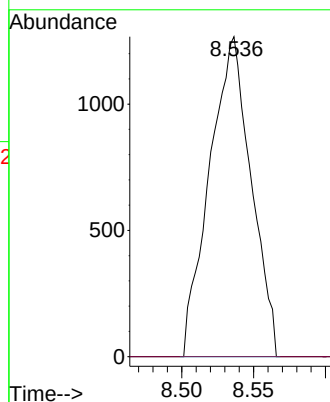
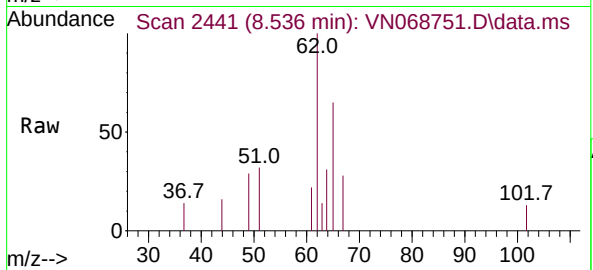
Acq: 29 Sep 2021 20:21

Tgt Ion: 62 Resp: 2550

Ion Ratio Lower Upper

62 100

98 0.0 0.0 14.2



#44

Trichloroethene

Concen: 87.529 ug/l

RT: 9.217 min Scan# 2695

Delta R.T. 0.000 min

Lab File: VN068751.D

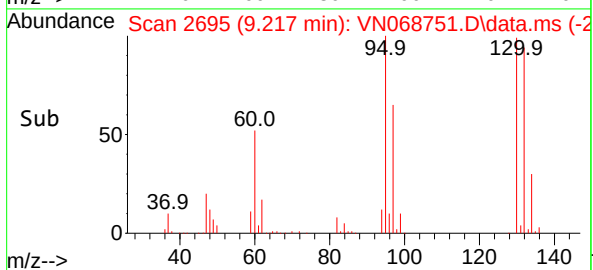
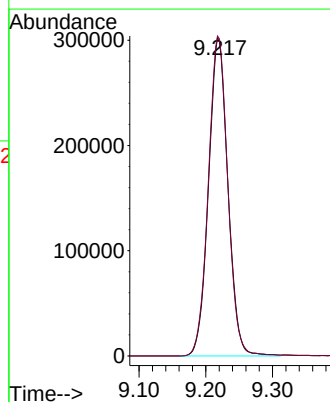
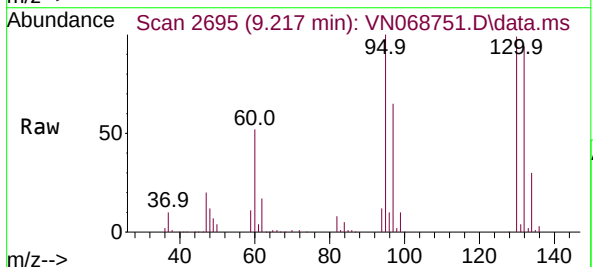
Acq: 29 Sep 2021 20:21

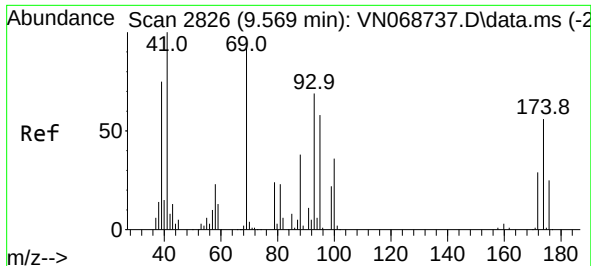
Tgt Ion: 130 Resp: 608365

Ion Ratio Lower Upper

130 100

95 100.6 0.0 234.4

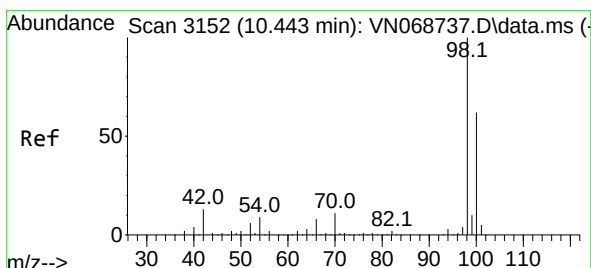
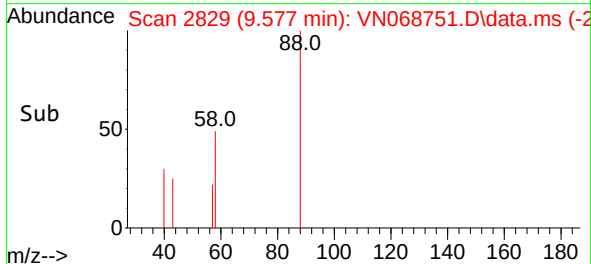
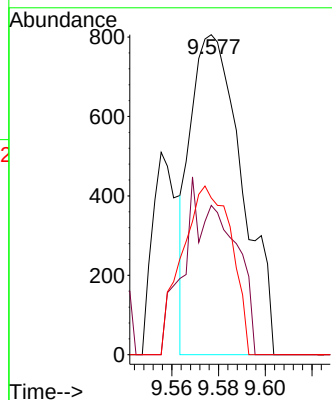
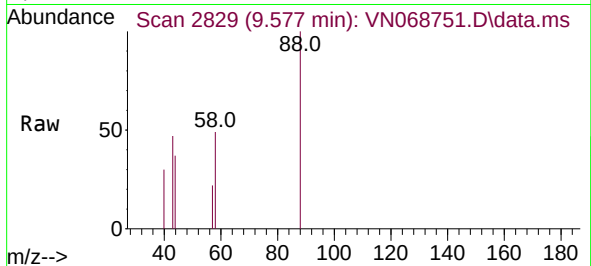




#49
1,4-Dioxane
Concen: 12.200 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.008 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

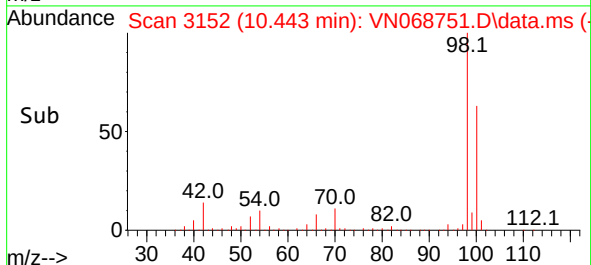
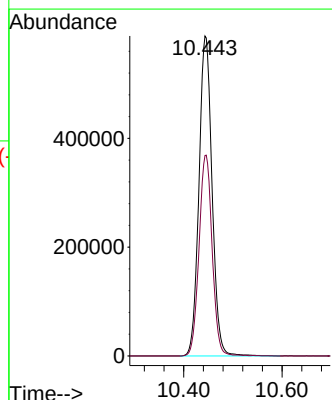
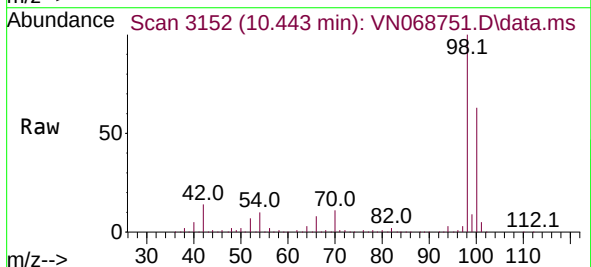
Instrument :
MSVOA_N
ClientSampled :

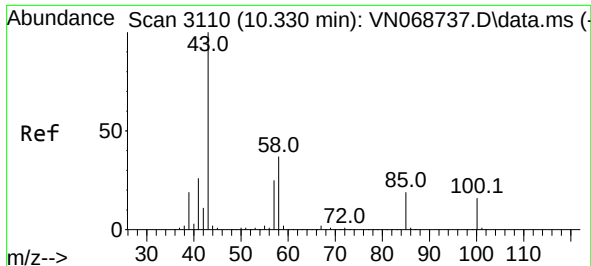
Tgt Ion: 88 Resp: 1235
Ion Ratio Lower Upper
88 100
43 18.9 28.8 43.2#
58 50.4 60.4 90.6#



#50
Toluene-d8
Concen: 52.675 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 98 Resp: 1087426
Ion Ratio Lower Upper
98 100
100 62.8 51.7 77.5

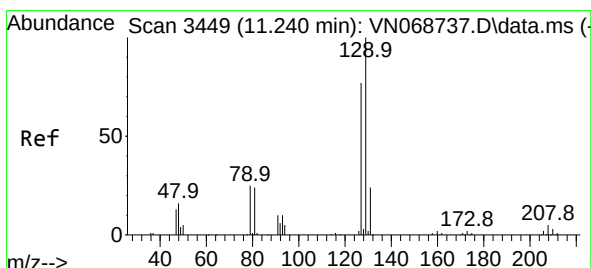
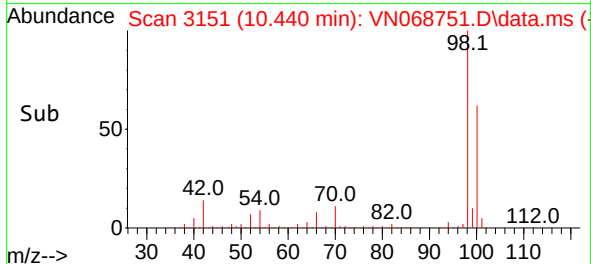
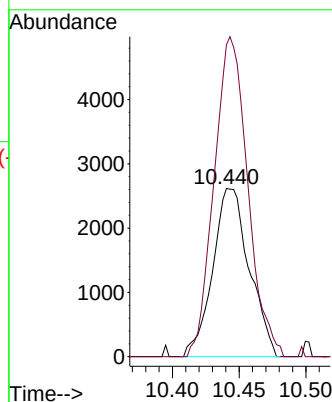
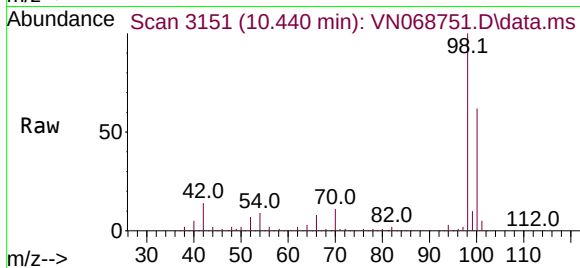




#51
4-Methyl-2-Pentanone
Concen: 0.553 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.110 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

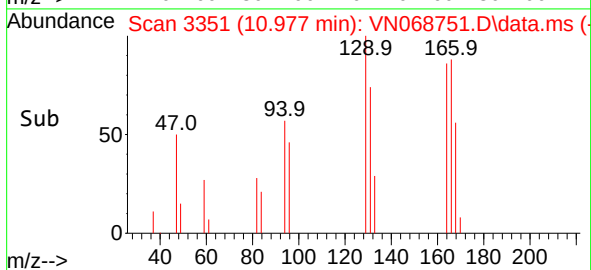
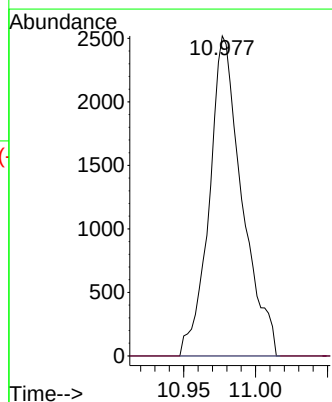
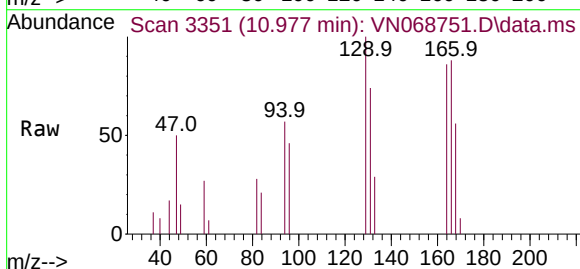
Instrument :
MSVOA_N
ClientSampled :

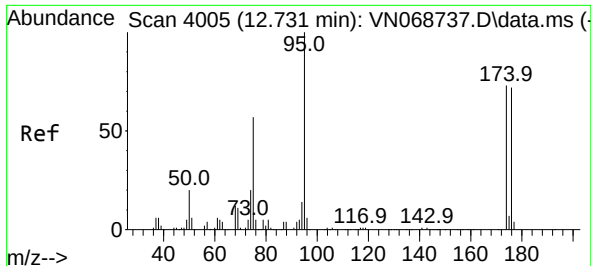
Tgt Ion: 43 Resp: 4992
Ion Ratio Lower Upper
43 100
58 174.8 28.6 43.0#



#60
Dibromochloromethane
Concen: 0.511 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.263 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 129 Resp: 3977
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

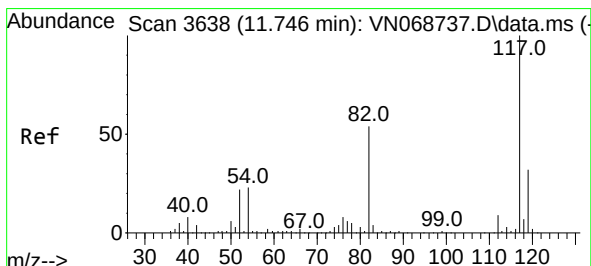
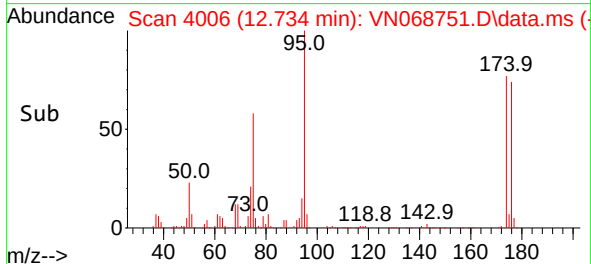
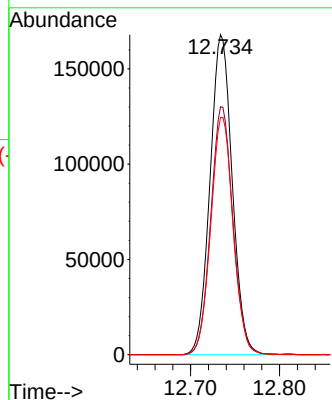
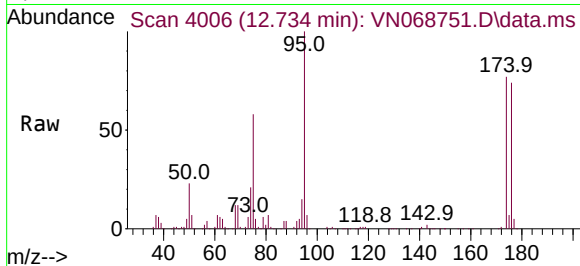




#62
4-Bromofluorobenzene
Concen: 40.591 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

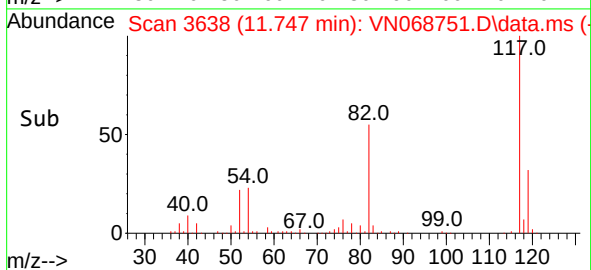
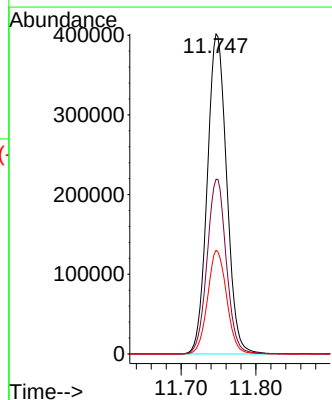
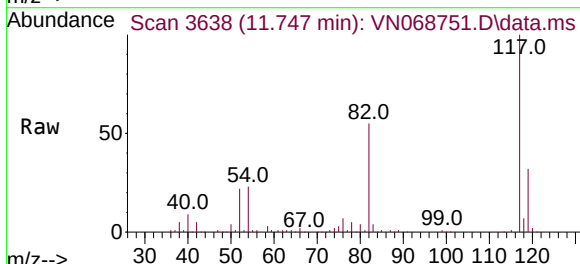
Instrument :
MSVOA_N
ClientSampled :

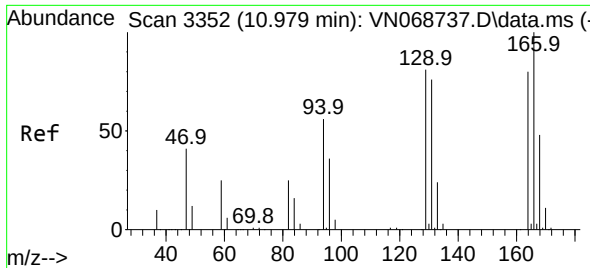
Tgt Ion: 95 Resp: 291170
Ion Ratio Lower Upper
95 100
174 77.4 0.0 122.0
176 74.4 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

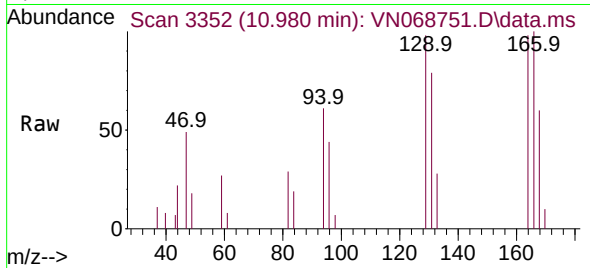
Tgt Ion: 117 Resp: 724472
Ion Ratio Lower Upper
117 100
82 54.6 53.1 79.7
119 32.4 25.5 38.3



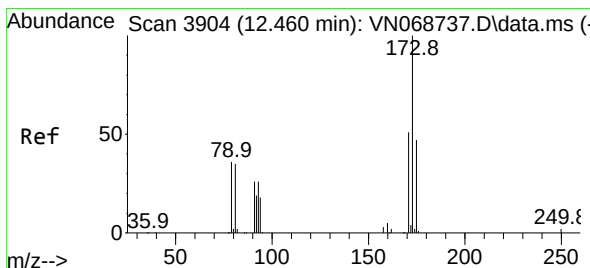
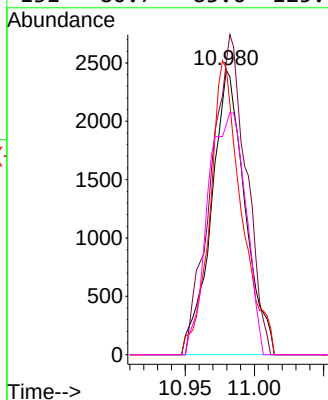
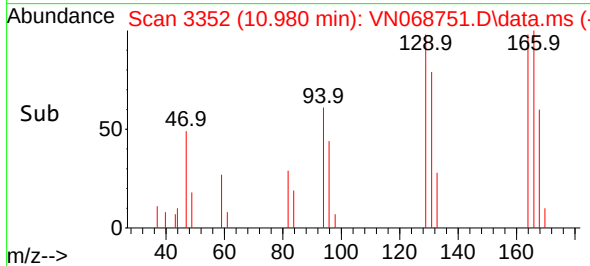


#64
Tetrachloroethene
Concen: 0.761 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. 0.001 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

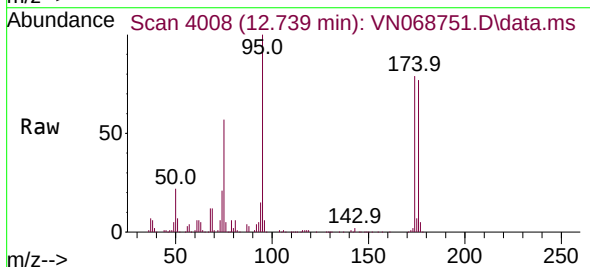
Instrument :
MSVOA_N
ClientSampled :



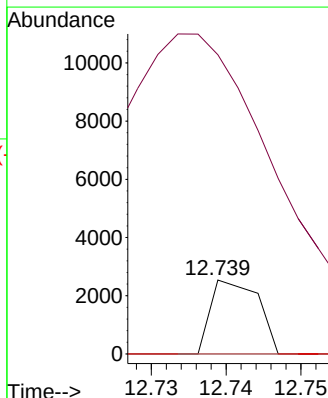
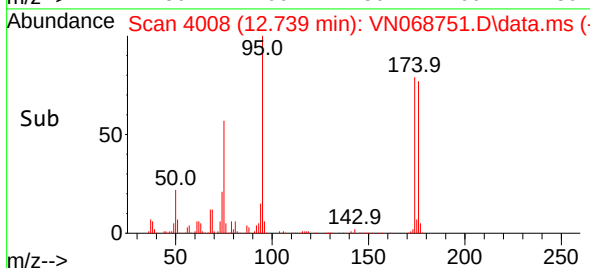
Tgt Ion:164 Resp: 4116
Ion Ratio Lower Upper
164 100
166 102.5 102.1 153.1
129 100.5 86.9 130.3
131 80.7 83.6 125.4#

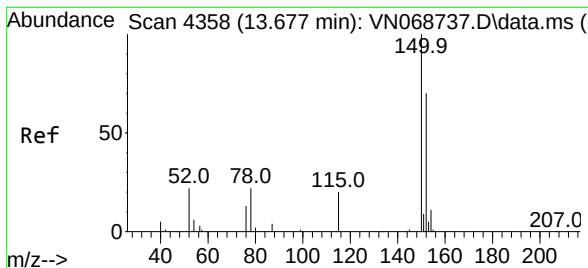


#71
Bromoform
Concen: 0.247 ug/l
RT: 12.739 min Scan# 4008
Delta R.T. 0.279 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21



Tgt Ion:173 Resp: 1114
Ion Ratio Lower Upper
173 100
175 1540.8 23.9 71.8#
254 0.0 0.0 0.0

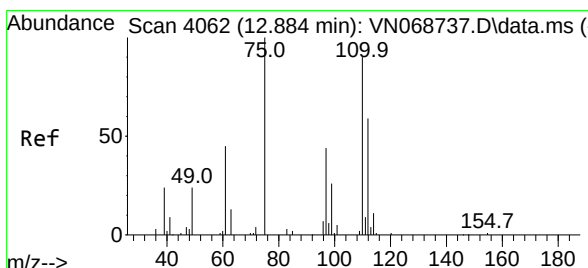
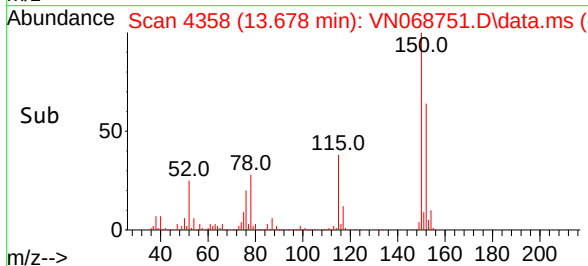
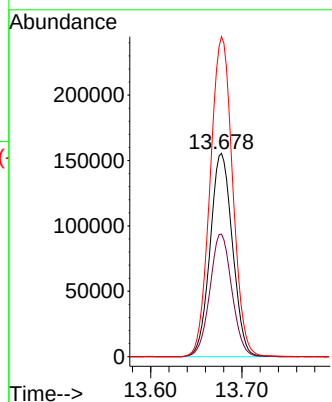
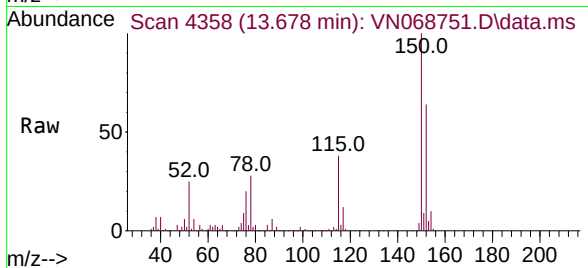




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.001 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

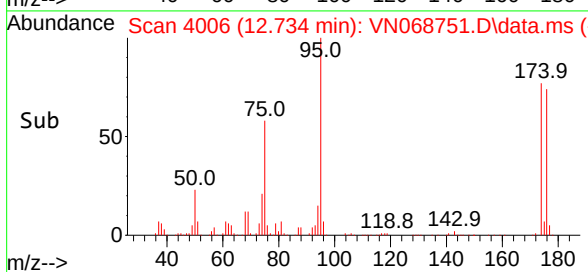
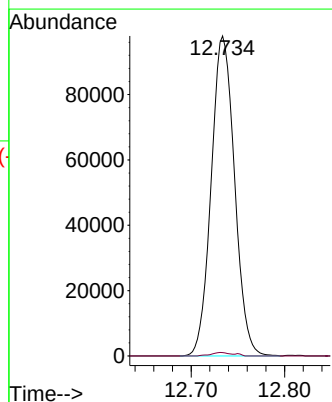
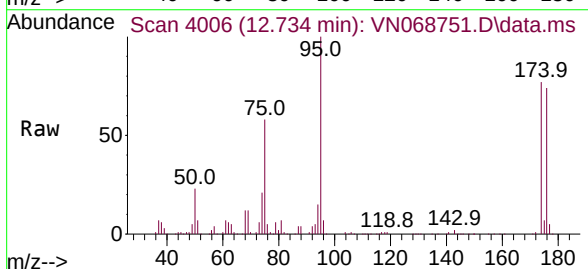
Instrument :
MSVOA_N
ClientSampled :

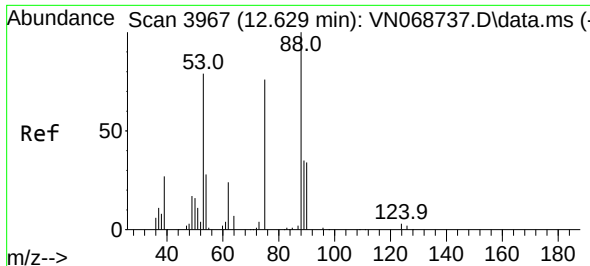
Tgt Ion:152 Resp: 264548
Ion Ratio Lower Upper
152 100
115 59.5 36.1 108.5
150 158.6 0.0 351.8



#76
1,2,3-Trichloropropane
Concen: 28.958 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion: 75 Resp: 170366
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#

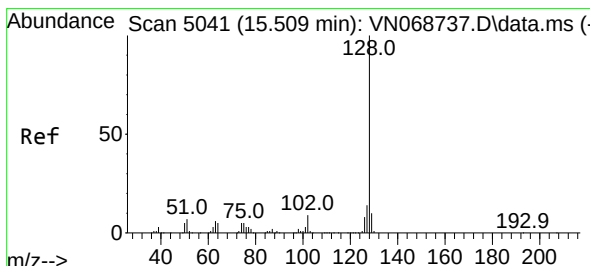
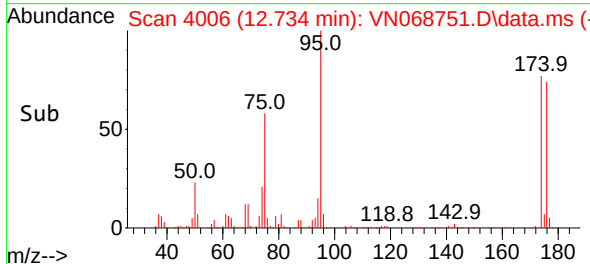
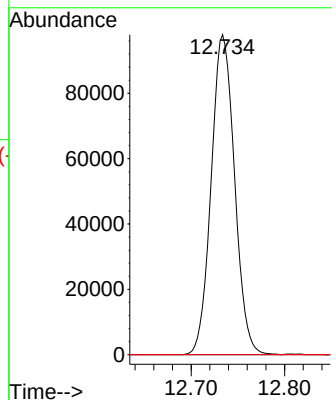
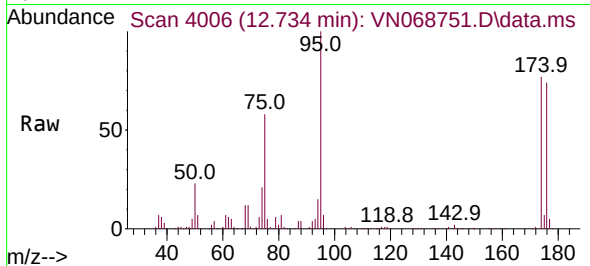




#81
trans-1,4-Dichloro-2-butene
Concen: 84.180 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 75 Resp: 170366
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#95
Naphthalene
Concen: 1.560 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN068751.D
Acq: 29 Sep 2021 20:21

Tgt Ion:128 Resp: 1449
Ion Ratio Lower Upper
128 100
127 1.7 10.6 15.8#
129 0.0 8.6 12.8#

