

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092421\
 Data File : VN068655.D
 Acq On : 24 Sep 2021 22:05
 Operator : JC/MD
 Sample : M3762-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11934

Quant Time: Sep 25 01:53:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092321W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 23 13:52:37 2021
 Response via : Initial Calibration

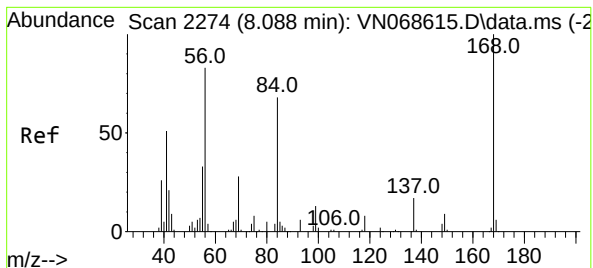
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.088	168	488840	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	821294	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	736957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	269064	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.442	65	386837	50.730	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.460%			
35) Dibromofluoromethane	8.024	113	283843	51.656	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 103.320%			
50) Toluene-d8	10.443	98	1151977	49.457	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.920%			
62) 4-Bromofluorobenzene	12.734	95	349729	43.902	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 87.800%			
Target Compounds						
5) Bromomethane	2.877	94	561	Below Cal	#	56
6) Chloroethane	2.977	64	230	Below Cal	#	58
13) Acrolein	4.057	56	491	8.120	ug/l	# 14
16) Acetone	4.291	43	131859	37.906	ug/l	95
18) Methyl Acetate	4.862	43	5990	0.534	ug/l	97
20) Methylene Chloride	5.103	84	31917	3.678	ug/l	92
25) 2-Butanone	7.343	43	14768	3.174	ug/l	93
29) Tetrahydrofuran	7.699	42	2590	0.876	ug/l	# 65
31) Cyclohexane	8.083	56	11934	1.114	ug/l	# 25
36) 1,1-Dichloropropene	8.086	75	39796	4.798	ug/l	# 52
37) Ethyl Acetate	7.343	43	14768	1.568	ug/l	# 69
38) Carbon Tetrachloride	8.088	117	48248	5.632	ug/l	# 17
41) Methacrylonitrile	7.694	41	1013	0.203	ug/l	# 47
43) Isopropyl Acetate	8.563	43	64921	4.030	ug/l	# 84
45) 1,2-Dichloropropane	9.625	63	3015	0.470	ug/l	# 44
48) Methyl methacrylate	9.545	41	12668	1.722	ug/l	# 12
49) 1,4-Dioxane	9.620	88	149	1.388	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.336	43	11878	1.219	ug/l	# 82
52) Toluene	10.510	92	8554	0.554	ug/l	91
54) cis-1,3-Dichloropropene	10.245	75	72609	7.169	ug/l	# 61
56) Ethyl methacrylate	10.870	69	375	0.740	ug/l	# 1
57) 1,3-Dichloropropane	11.092	76	41747	3.998	ug/l	# 43
59) 2-Hexanone	11.092	43	697382	99.544	ug/l	# 53
67) Ethyl Benzene	11.846	91	10725	0.378	ug/l	98
76) 1,2,3-Trichloropropane	12.734	75	197471	29.682	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.734	75	197471	83.845	ug/l	# 6
89) n-Butylbenzene	13.879	91	7594	0.467	ug/l	# 44
95) Naphthalene	15.509	128	8714	2.248	ug/l	97

(#) = 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: VN068655.D

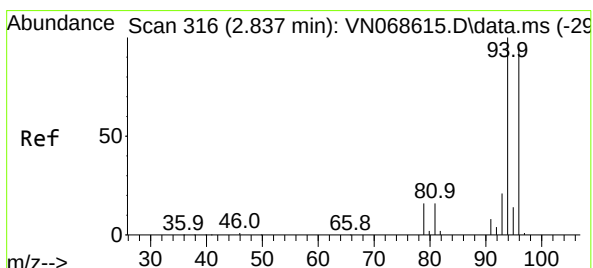
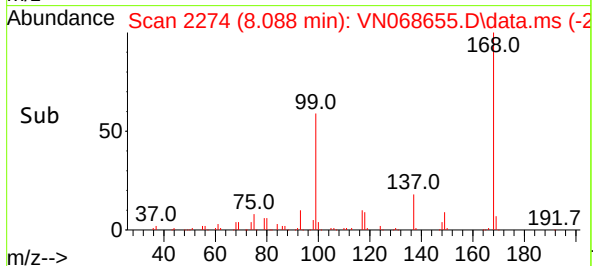
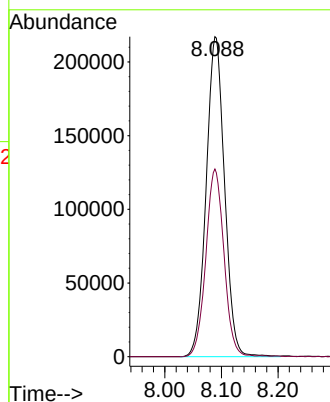
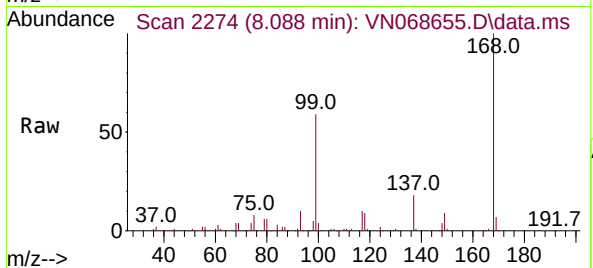
Acq: 24 Sep 2021 22:05

Tgt Ion:168 Resp: 488840

Ion Ratio Lower Upper

168 100

99 58.6 62.9 94.3#



#5

Bromomethane

Concen: Below Cal

RT: 2.877 min Scan# 331

Delta R.T. 0.040 min

Lab File: VN068655.D

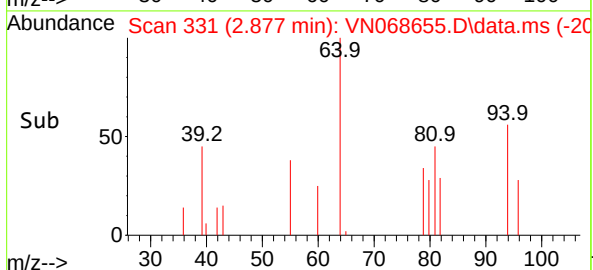
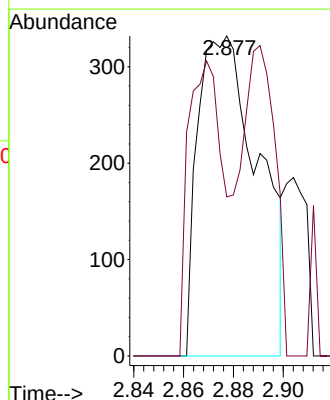
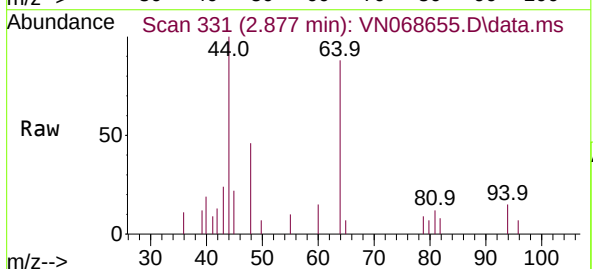
Acq: 24 Sep 2021 22:05

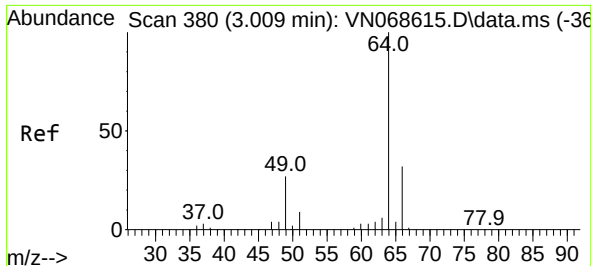
Tgt Ion: 94 Resp: 561

Ion Ratio Lower Upper

94 100

96 49.7 73.7 110.5#

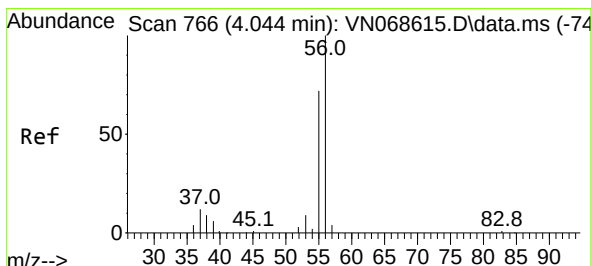
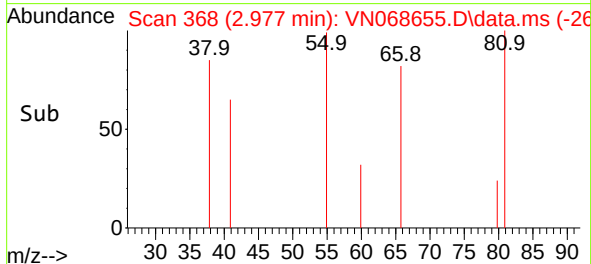
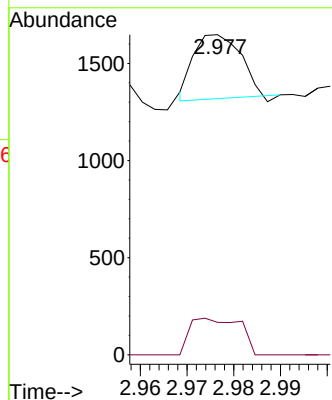
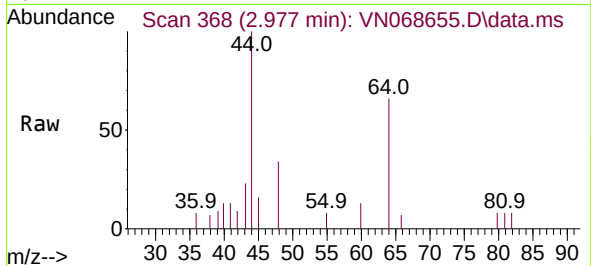




#6
Chloroethane
Concen: Below Cal
RT: 2.977 min Scan# 368
Delta R.T. -0.032 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

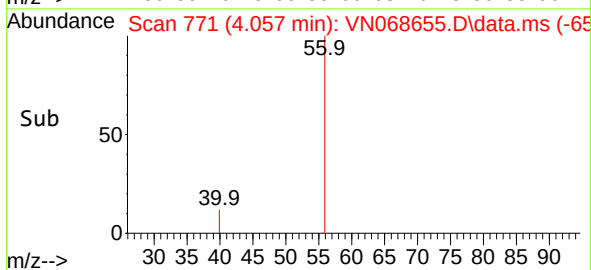
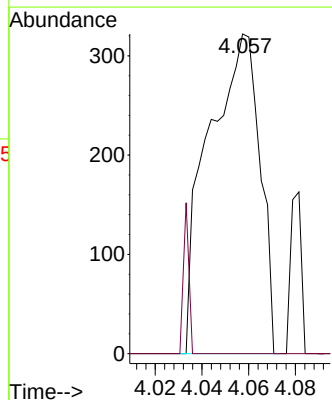
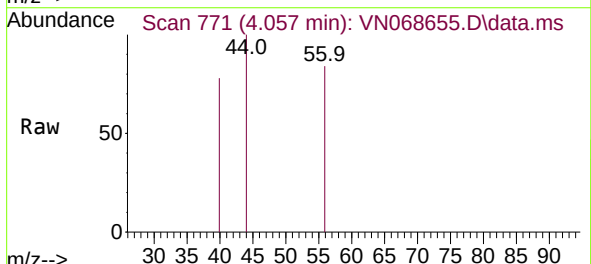
Instrument :
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11934

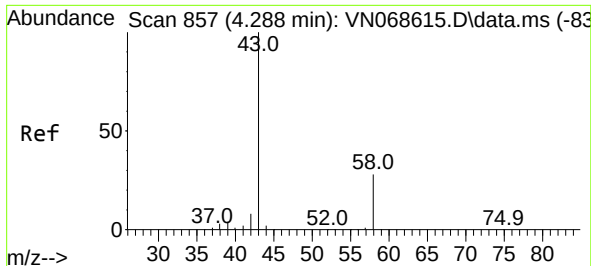
Tgt Ion: 64 Resp: 230
Ion Ratio Lower Upper
64 100
66 53.9 24.7 37.1#



#13
Acrolein
Concen: 8.120 ug/l
RT: 4.057 min Scan# 771
Delta R.T. 0.013 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 56 Resp: 491
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

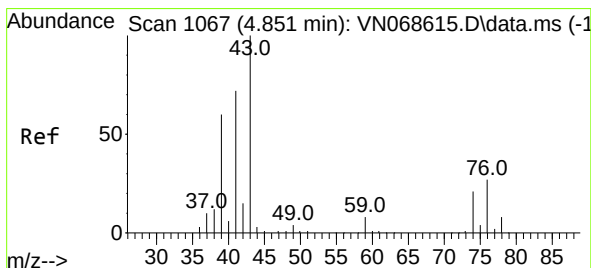
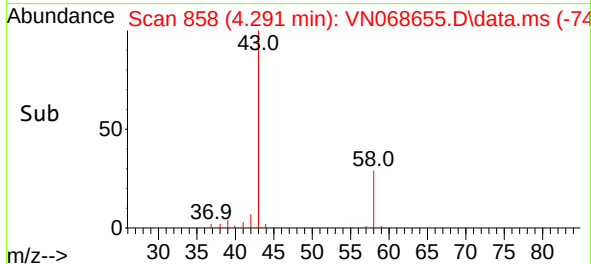
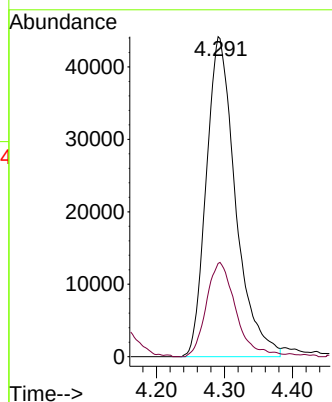
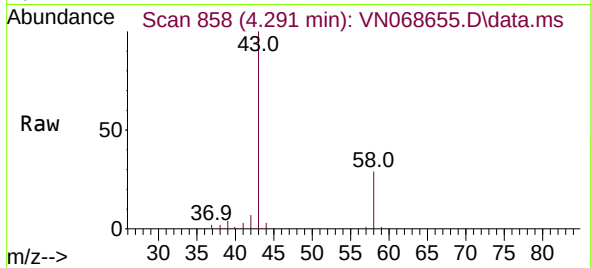




#16
Acetone
Concen: 37.906 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

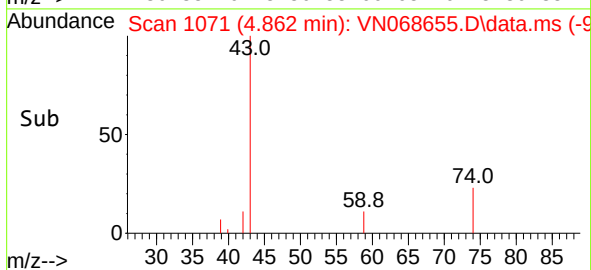
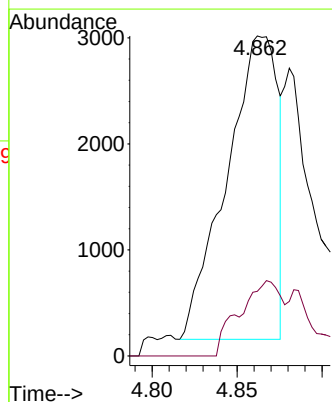
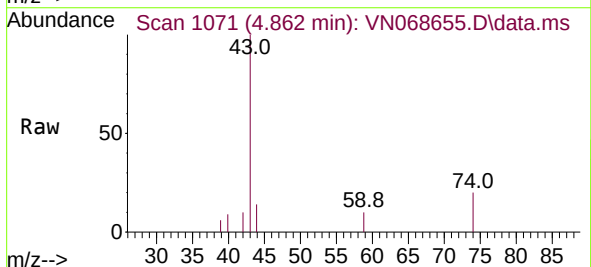
Instrument :
MSVOA_N
ClientSampled :
11934

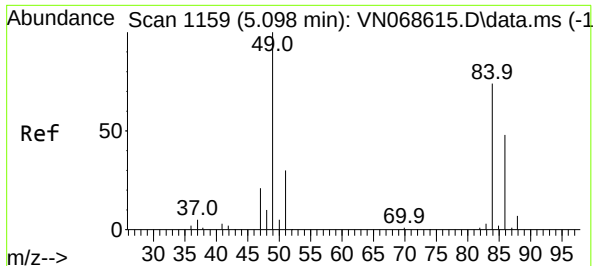
Tgt Ion: 43 Resp: 131859
Ion Ratio Lower Upper
43 100
58 29.2 21.2 31.8



#18
Methyl Acetate
Concen: 0.534 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.011 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 43 Resp: 5990
Ion Ratio Lower Upper
43 100
74 20.4 17.4 26.0





#20

Methylene Chloride

Concen: 3.678 ug/l

RT: 5.103 min Scan# 1161

Delta R.T. 0.005 min

Lab File: VN068655.D

Acq: 24 Sep 2021 22:05

Instrument :
MSVOA_N
ClientSampled :
11934

Tgt Ion: 84 Resp: 31917

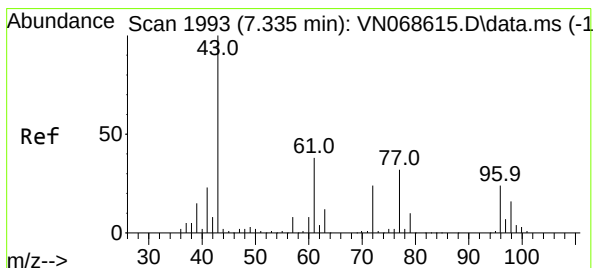
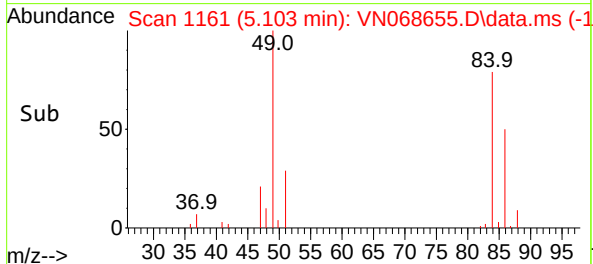
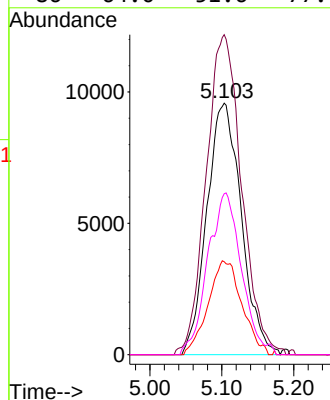
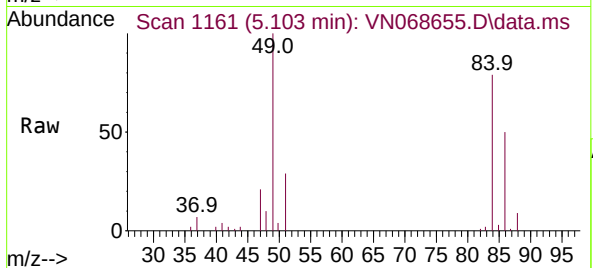
Ion Ratio Lower Upper

84 100

49 124.9 110.9 166.3

51 36.9 32.6 49.0

86 64.0 51.6 77.4



#25

2-Butanone

Concen: 3.174 ug/l

RT: 7.343 min Scan# 1996

Delta R.T. 0.008 min

Lab File: VN068655.D

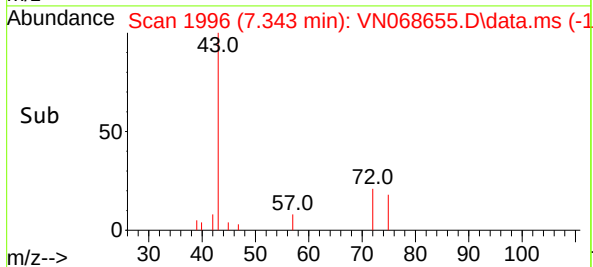
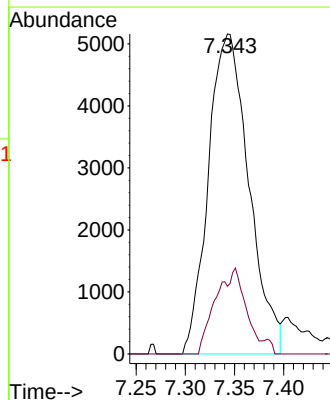
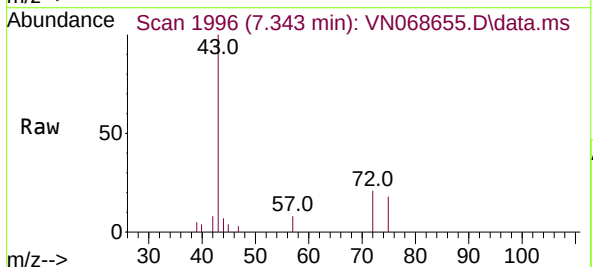
Acq: 24 Sep 2021 22:05

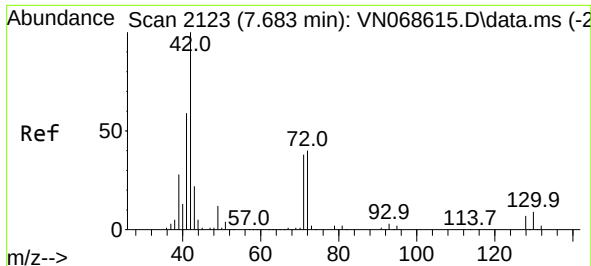
Tgt Ion: 43 Resp: 14768

Ion Ratio Lower Upper

43 100

72 21.2 19.7 29.5





#29

Tetrahydrofuran

Concen: 0.876 ug/l

RT: 7.699 min Scan# 2129

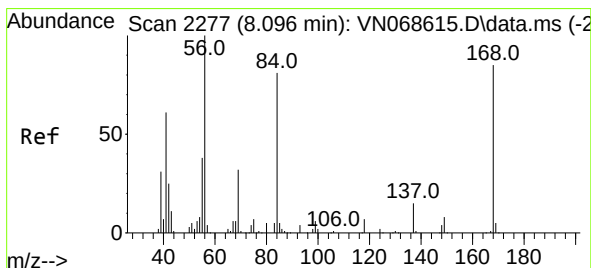
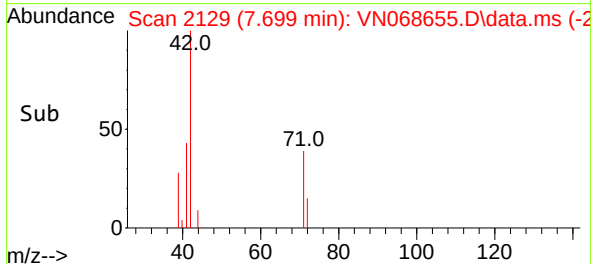
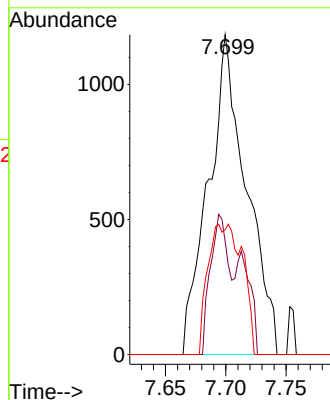
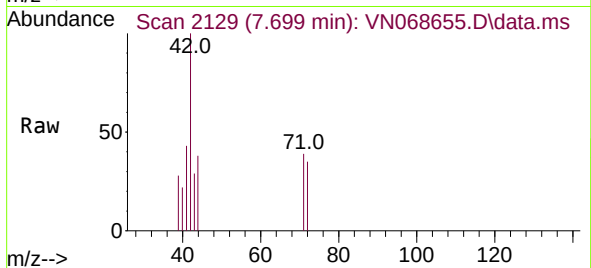
Delta R.T. 0.016 min

Lab File: VN068655.D

Acq: 24 Sep 2021 22:05

Instrument :
MSVOA_N
ClientSampled :
11934

Tgt Ion: 42	Resp: 2590
Ion Ratio	Lower Upper
42 100	
72 20.8	32.8 49.2#
71 16.4	31.2 46.8#



#31

Cyclohexane

Concen: 1.114 ug/l

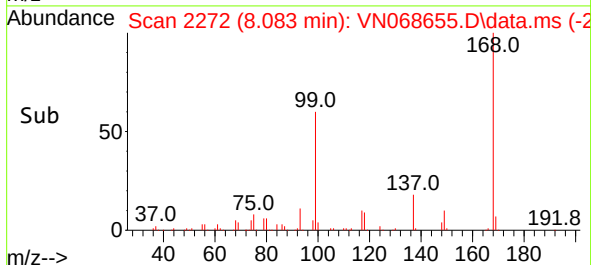
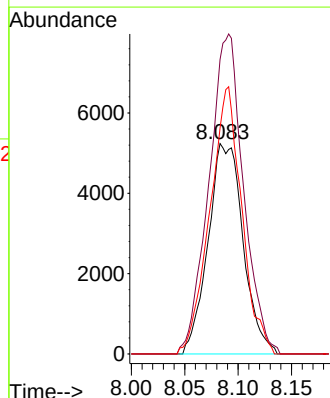
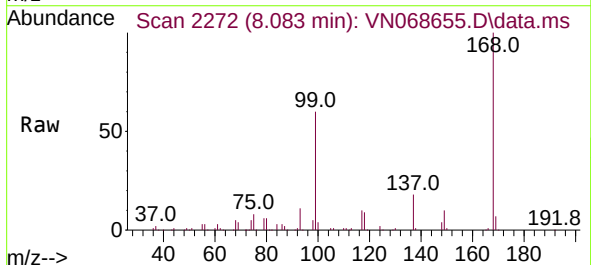
RT: 8.083 min Scan# 2272

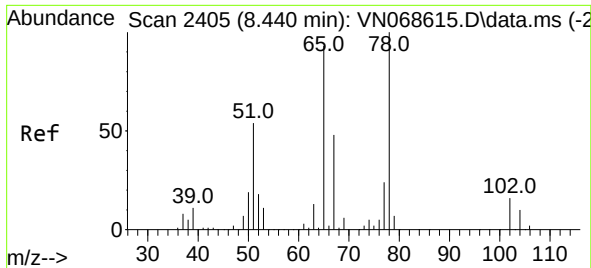
Delta R.T. -0.013 min

Lab File: VN068655.D

Acq: 24 Sep 2021 22:05

Tgt Ion: 56	Resp: 11934
Ion Ratio	Lower Upper
56 100	
69 139.9	27.3 40.9#
84 107.3	64.9 97.3#

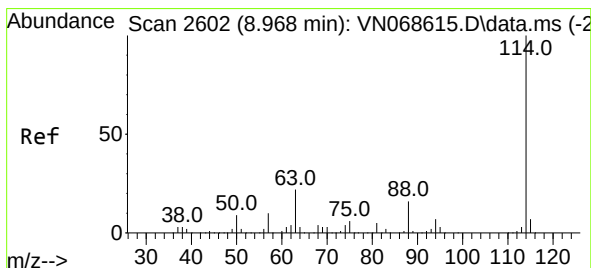
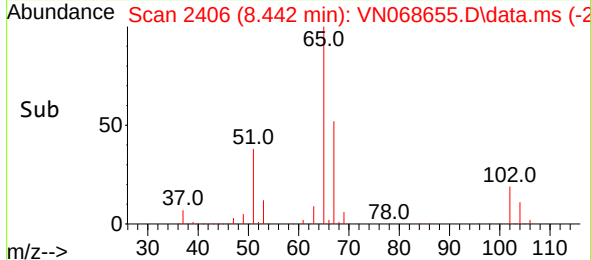
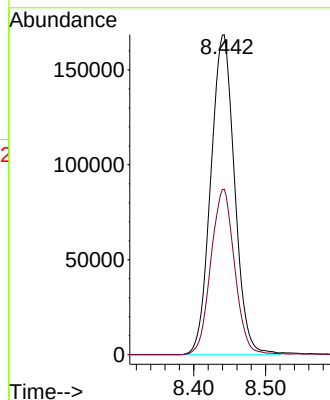
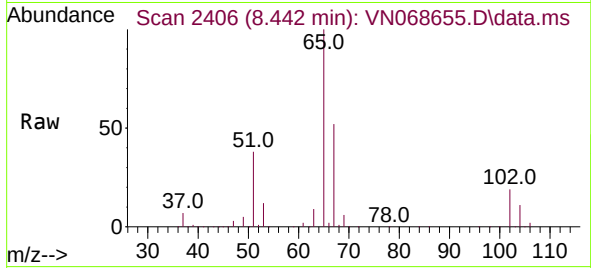




#33
 1,2-Dichloroethane-d4
 Concen: 50.730 ug/l
 RT: 8.442 min Scan# 2406
 Delta R.T. 0.002 min
 Lab File: VN068655.D
 Acq: 24 Sep 2021 22:05

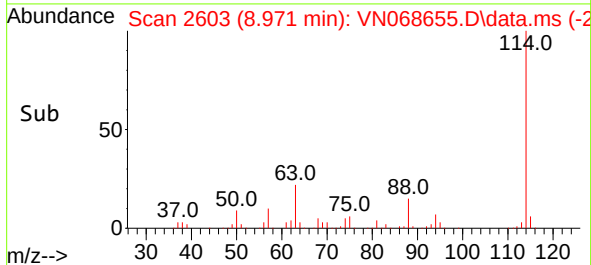
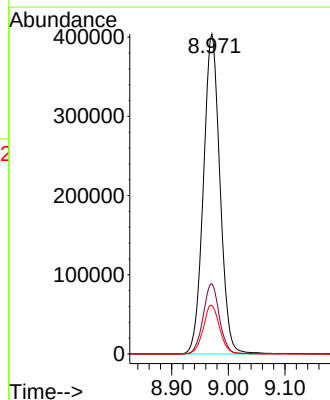
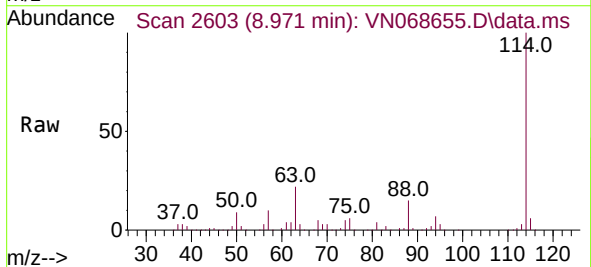
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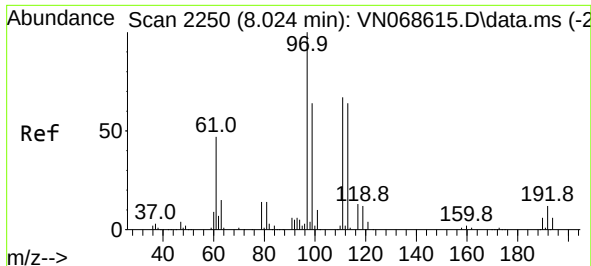
Tgt Ion: 65 Resp: 386837
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068655.D
 Acq: 24 Sep 2021 22:05

Tgt Ion: 114 Resp: 821294
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 49.0
 88 15.2 0.0 36.6

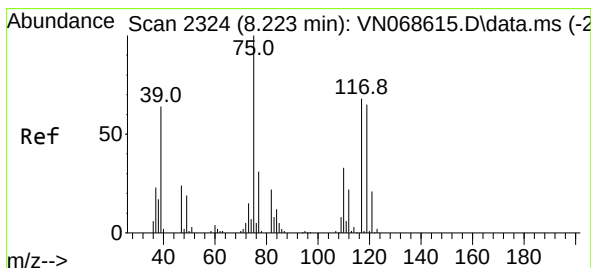
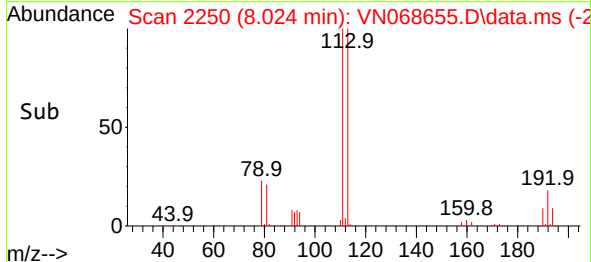
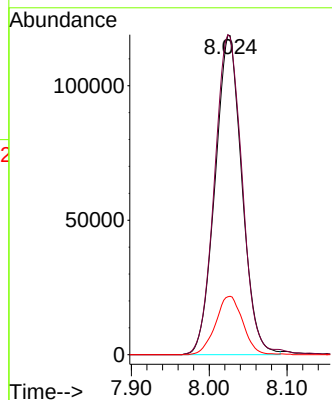
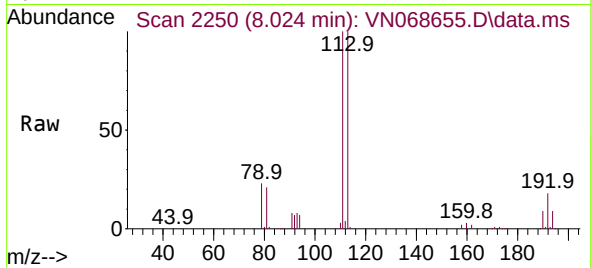




#35
Dibromofluoromethane
Concen: 51.656 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

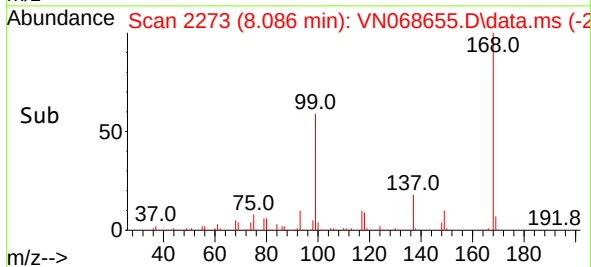
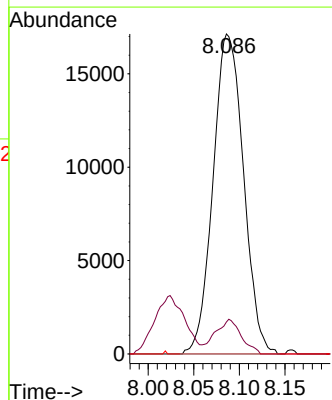
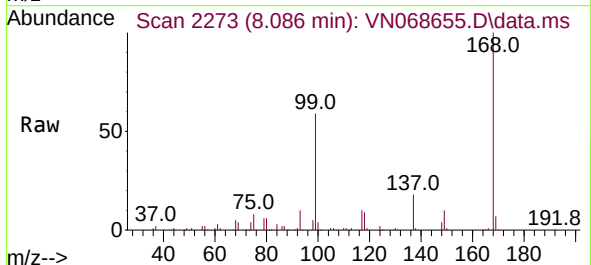
Instrument :
MSVOA_N
ClientSampled :
11934

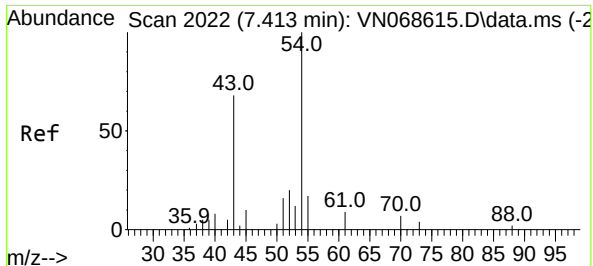
Tgt Ion:113 Resp: 283843
Ion Ratio Lower Upper
113 100
111 103.5 83.8 125.8
192 18.6 13.4 20.0



#36
1,1-Dichloropropene
Concen: 4.798 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 75 Resp: 39796
Ion Ratio Lower Upper
75 100
110 9.1 15.7 47.0#
77 0.0 24.6 37.0#

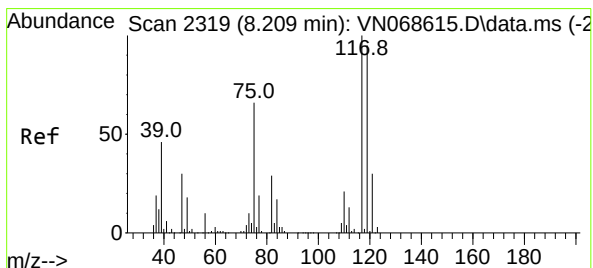
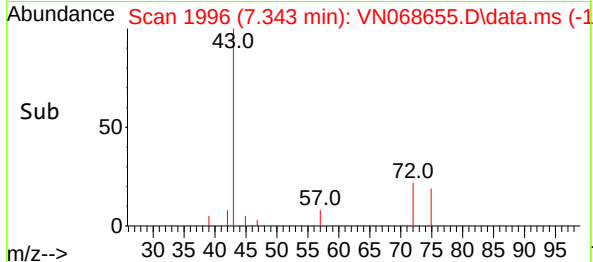
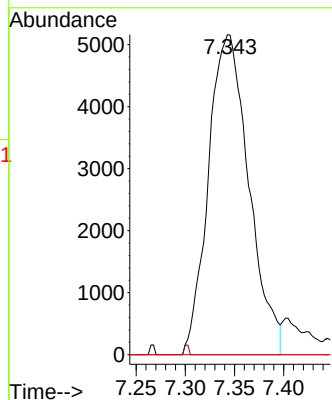
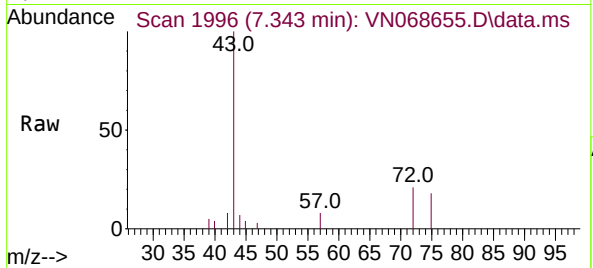




#37
Ethyl Acetate
Concen: 1.568 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. -0.070 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

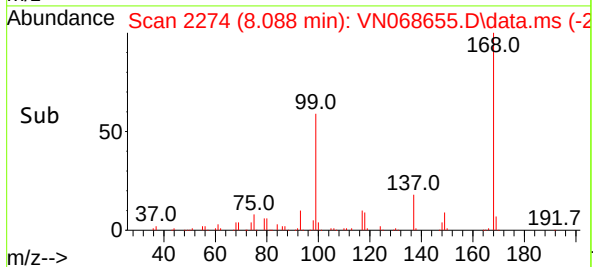
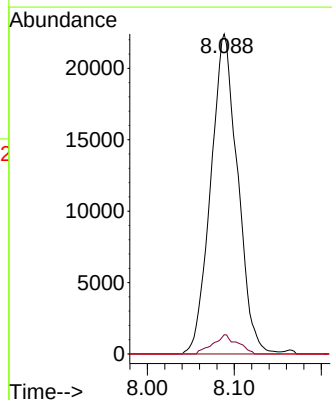
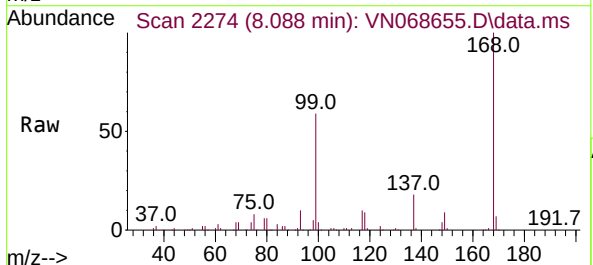
Instrument :
MSVOA_N
ClientSampled :
11934

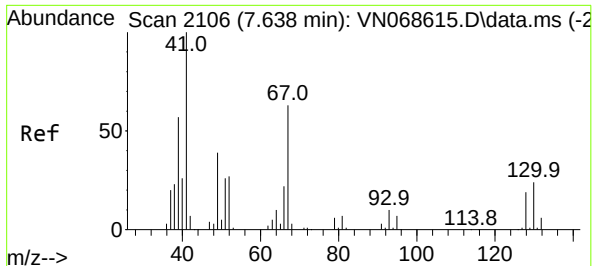
Tgt Ion:	43	Resp:	14768
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	16.0#
70	0.0	8.1	12.1#



#38
Carbon Tetrachloride
Concen: 5.632 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion:	117	Resp:	48248
Ion	Ratio	Lower	Upper
117	100		
119	6.0	75.4	113.2#
121	0.0	23.5	35.3#

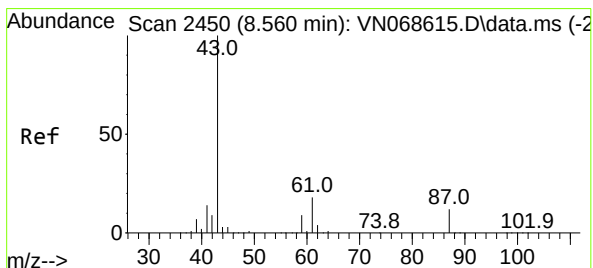
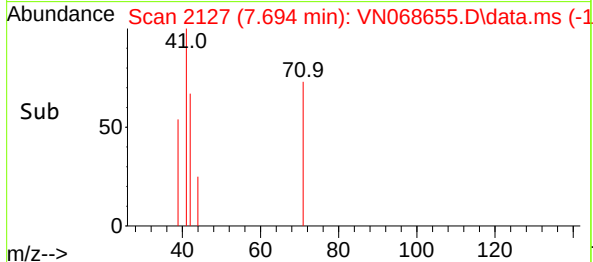
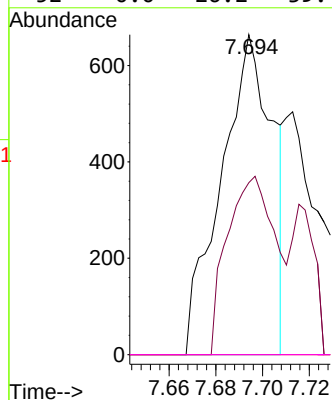
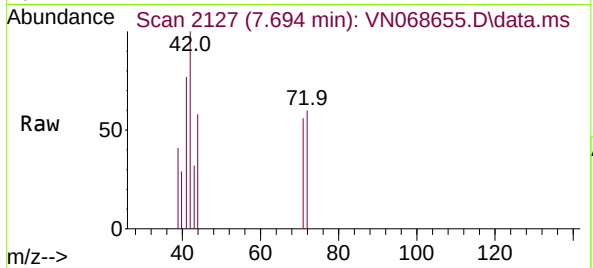




#41
Methacrylonitrile
Concen: 0.203 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.056 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

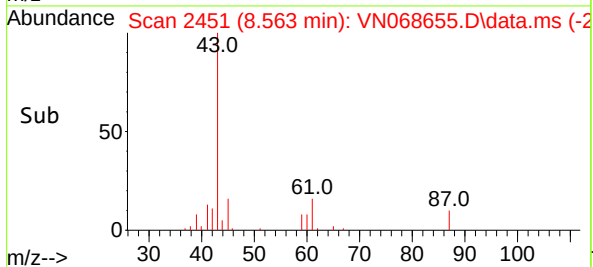
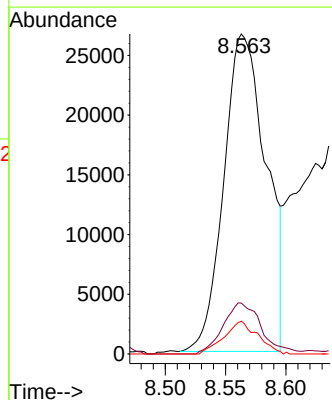
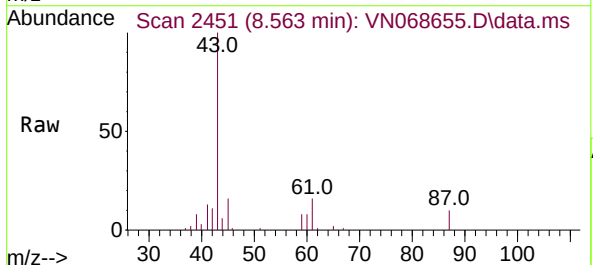
Instrument :
MSVOA_N
ClientSampled :
11934

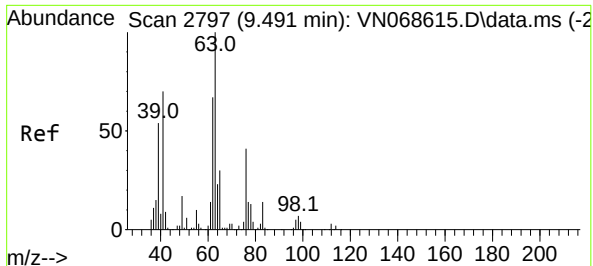
Tgt Ion: 41	Resp: 1013
Ion Ratio	Lower Upper
41	100
39	52.6 47.6 71.4
67	0.0 57.7 86.5#
52	0.0 26.2 39.4#



#43
Isopropyl Acetate
Concen: 4.030 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 43	Resp: 64921
Ion Ratio	Lower Upper
43	100
61	14.5 19.0 28.4#
87	8.2 9.5 14.3#



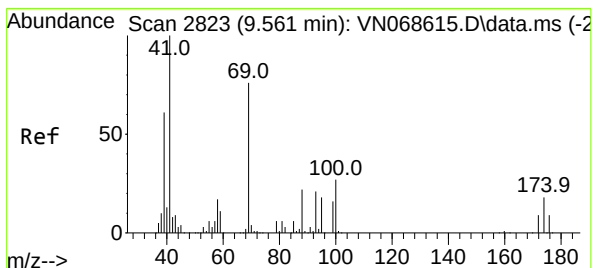
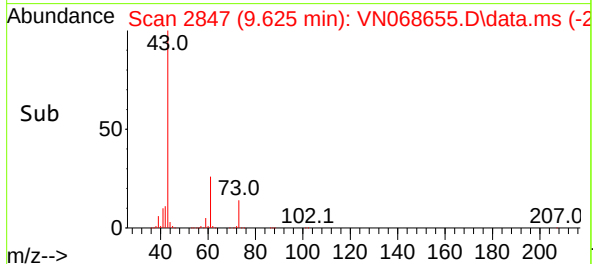
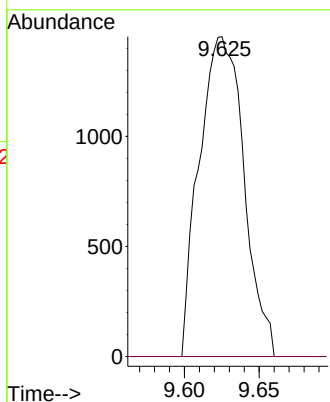
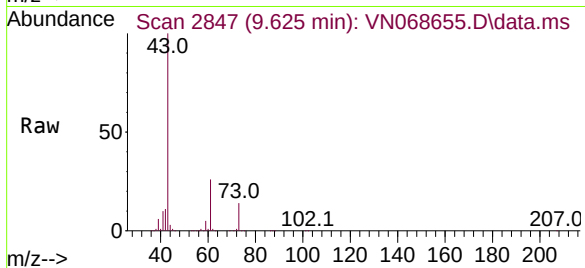


#45

1,2-Dichloropropane
Concen: 0.470 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Instrument :
MSVOA_N
ClientSampled :
11934

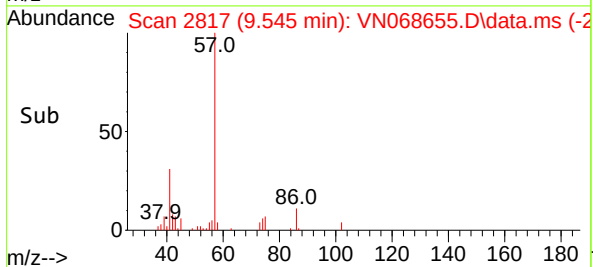
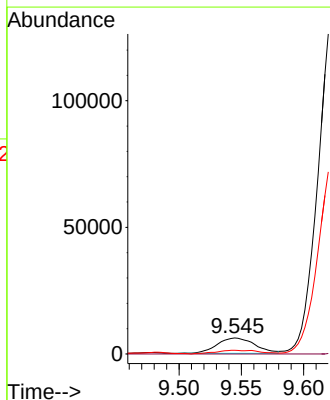
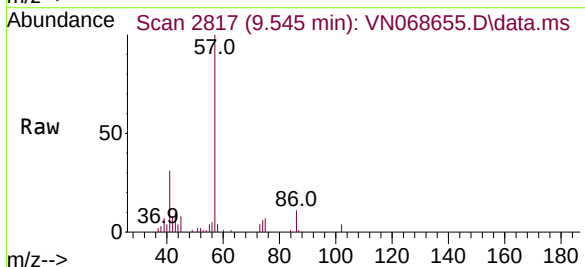
Tgt Ion: 63 Resp: 3015
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

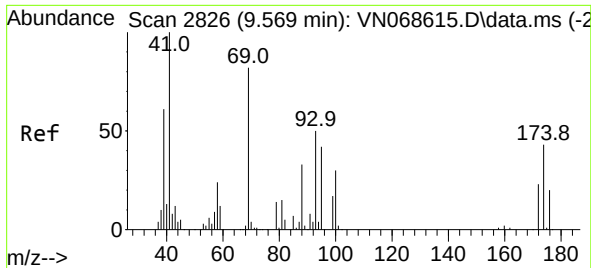


#48

Methyl methacrylate
Concen: 1.722 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 41 Resp: 12668
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#

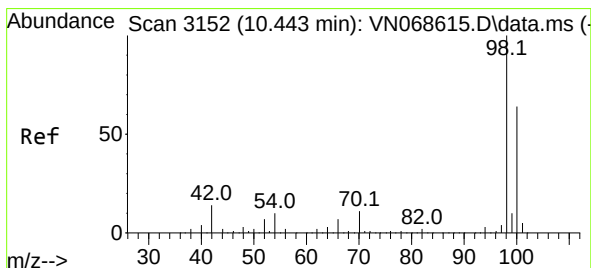
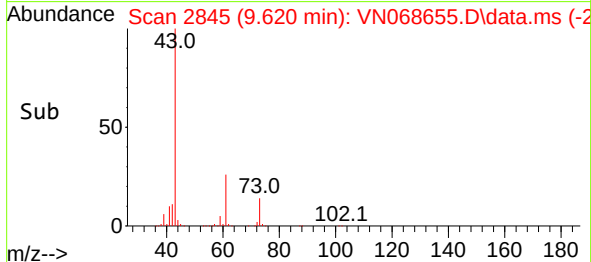
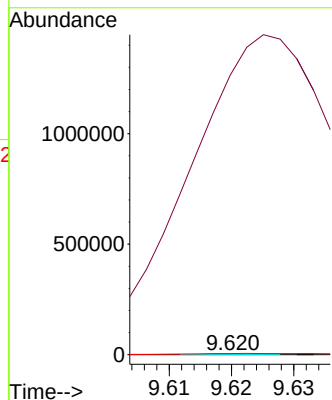
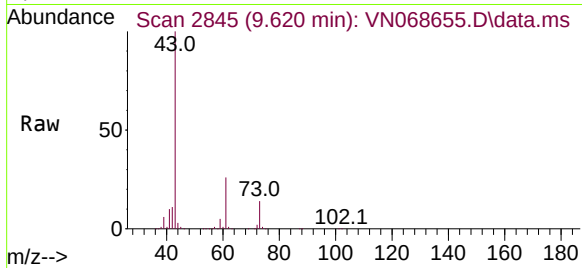




#49
1,4-Dioxane
Concen: 1.388 ug/l
RT: 9.620 min Scan# 2845
Delta R.T. 0.051 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

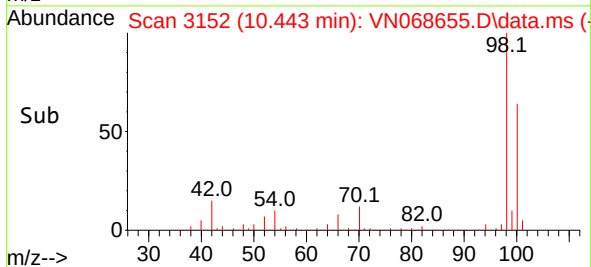
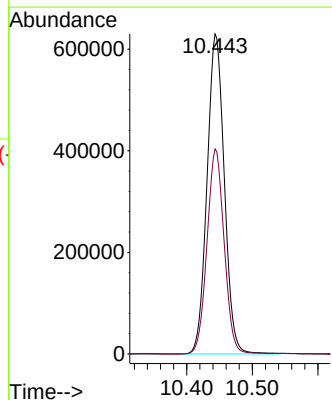
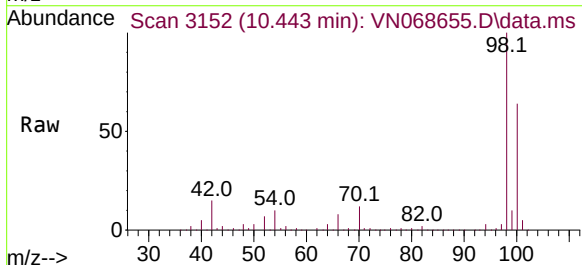
Instrument :
MSVOA_N
ClientSampled :
11934

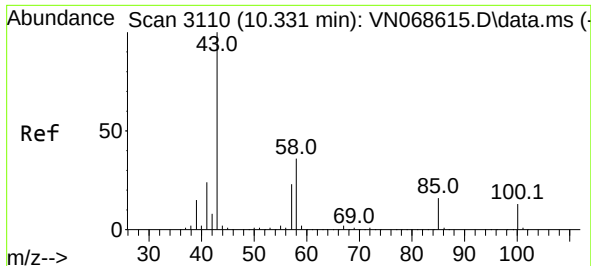
Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
43 1804318.8 28.8 43.2#
58 6942.3 60.4 90.6#



#50
Toluene-d8
Concen: 49.457 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 98 Resp: 1151977
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5

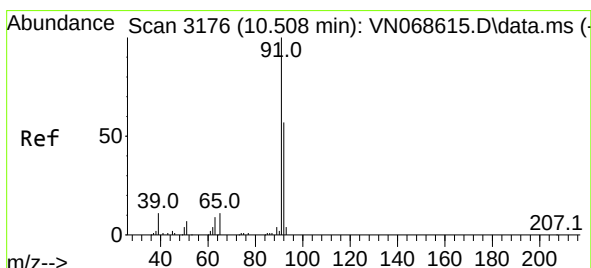
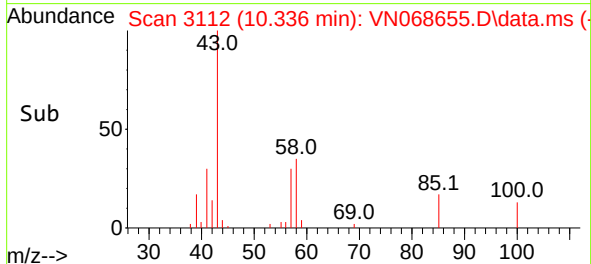
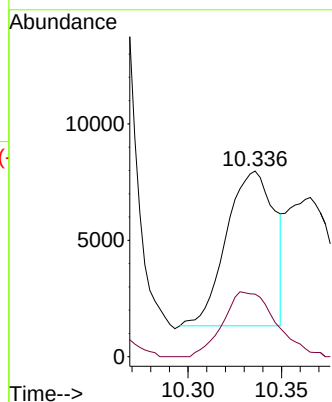
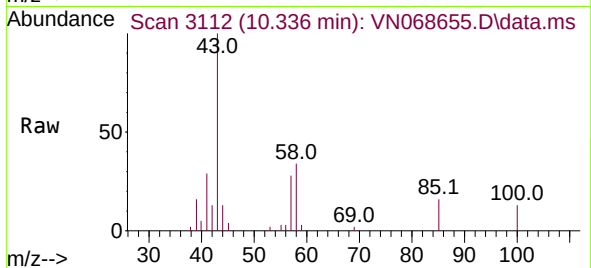




#51
4-Methyl-2-Pentanone
Concen: 1.219 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

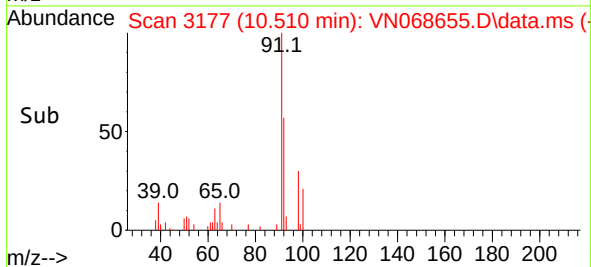
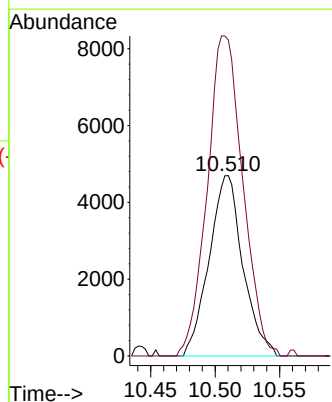
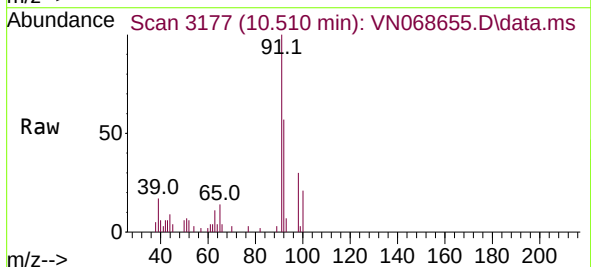
Instrument :
MSVOA_N
ClientSampled :
11934

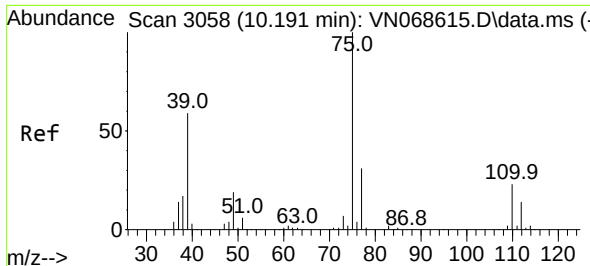
Tgt Ion: 43 Resp: 11878
Ion Ratio Lower Upper
43 100
58 46.2 28.6 43.0#



#52
Toluene
Concen: 0.554 ug/l
RT: 10.510 min Scan# 3177
Delta R.T. 0.002 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 92 Resp: 8554
Ion Ratio Lower Upper
92 100
91 186.7 139.6 209.4

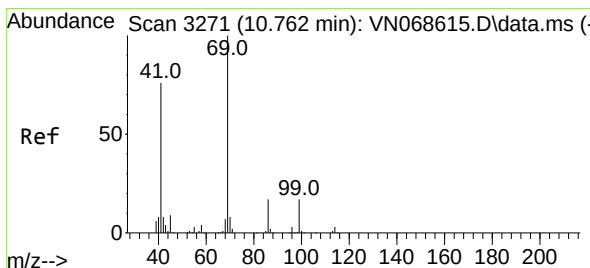
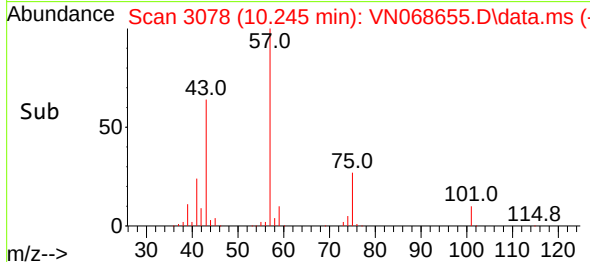
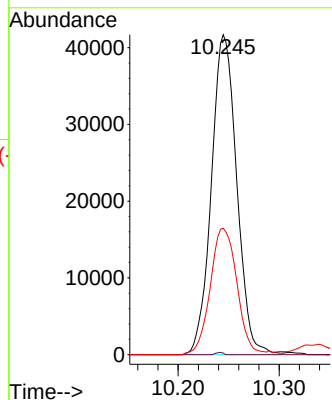
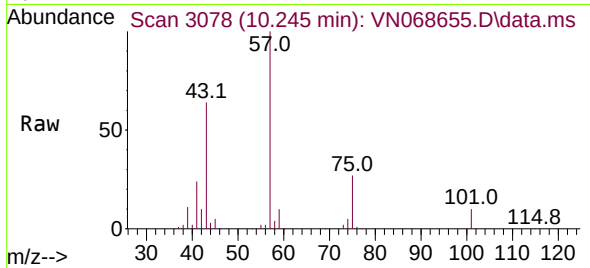




#54
cis-1,3-Dichloropropene
Concen: 7.169 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

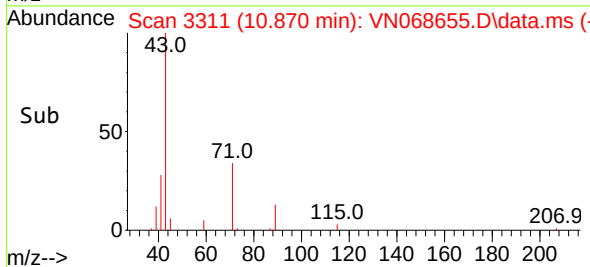
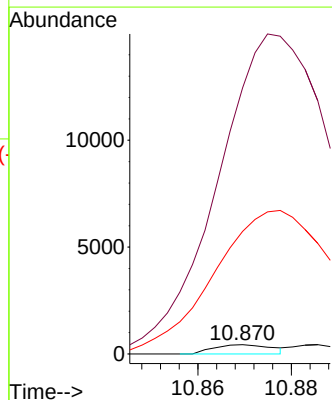
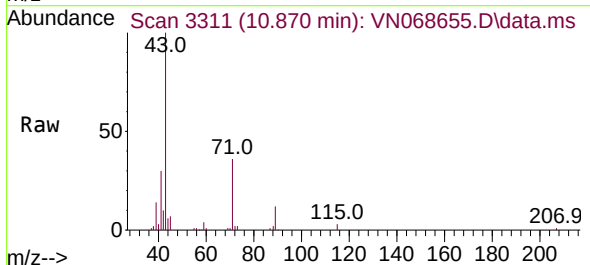
Instrument :
MSVOA_N
ClientSampled :
11934

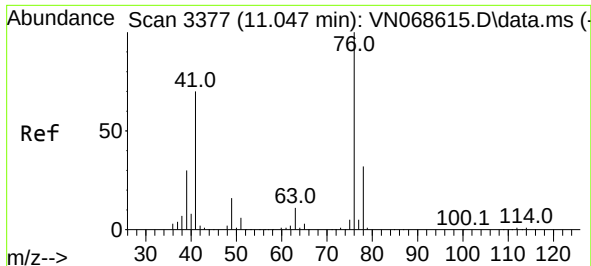
Tgt Ion: 75 Resp: 72609
Ion Ratio Lower Upper
75 100
77 0.5 24.6 37.0#
39 39.5 50.7 76.1#



#56
Ethyl methacrylate
Concen: 0.740 ug/l
RT: 10.870 min Scan# 3311
Delta R.T. 0.108 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 69 Resp: 375
Ion Ratio Lower Upper
69 100
41 7186.9 58.6 88.0#
39 3327.5 38.3 57.5#

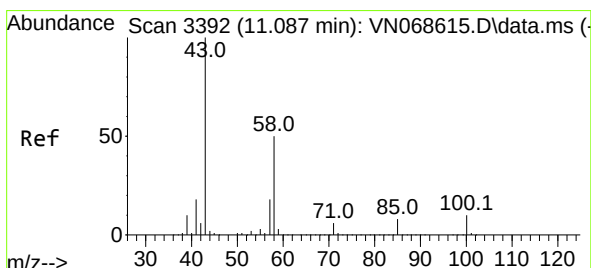
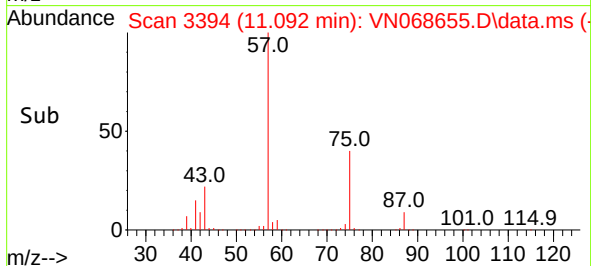
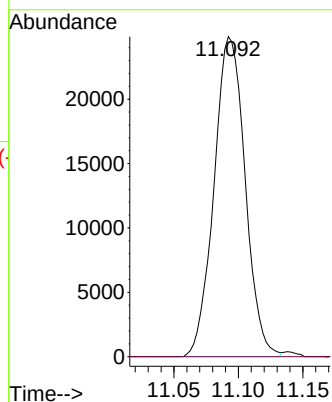
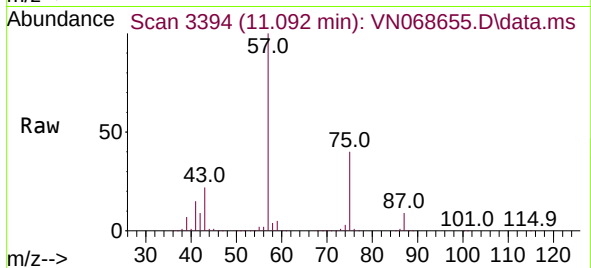




#57
1,3-Dichloropropane
Concen: 3.998 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.045 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

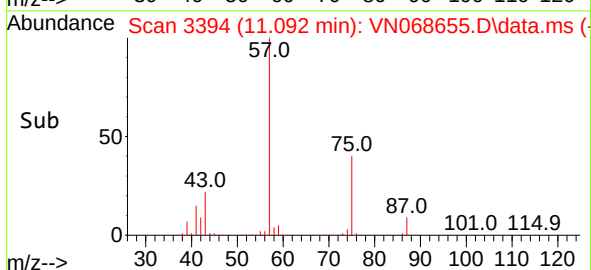
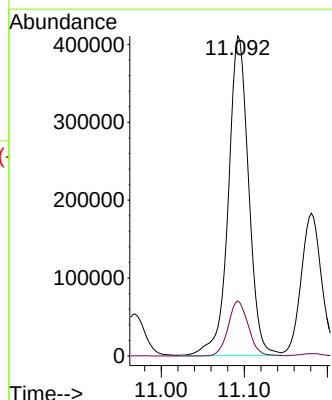
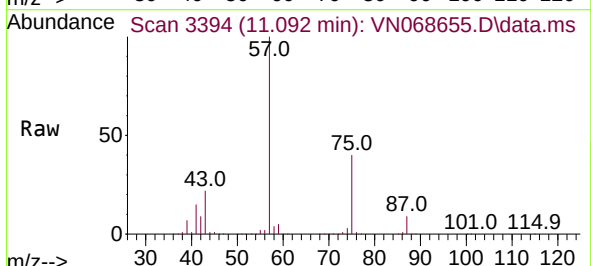
Instrument :
MSVOA_N
ClientSampled :
11934

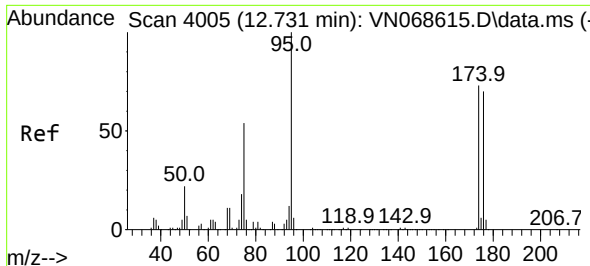
Tgt Ion: 76 Resp: 41747
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#



#59
2-Hexanone
Concen: 99.544 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 43 Resp: 697382
Ion Ratio Lower Upper
43 100
58 17.1 24.7 74.1#

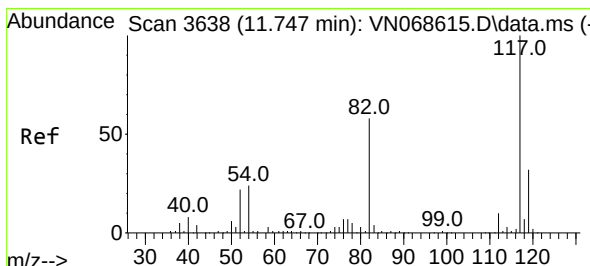
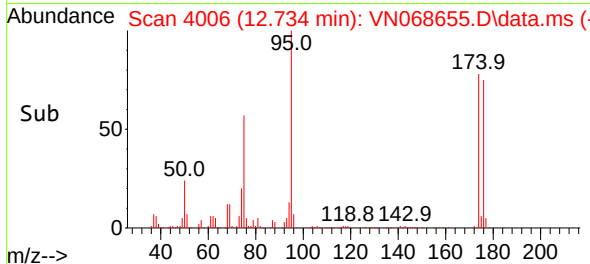
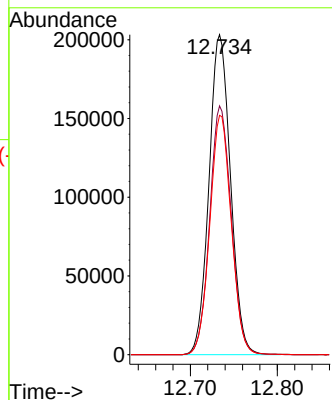
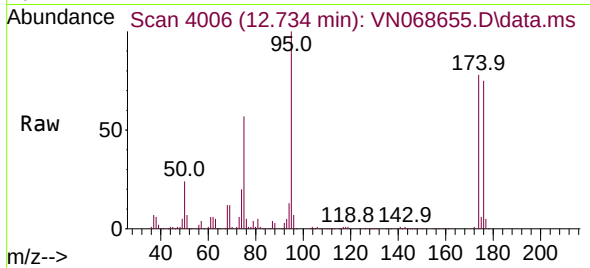




#62
4-Bromofluorobenzene
Concen: 43.902 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

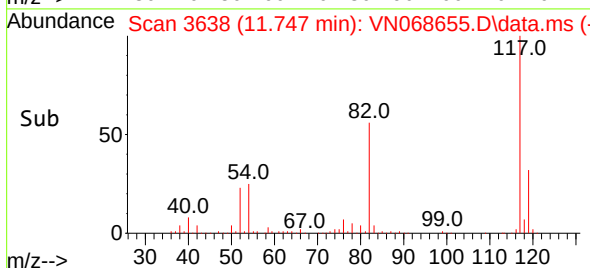
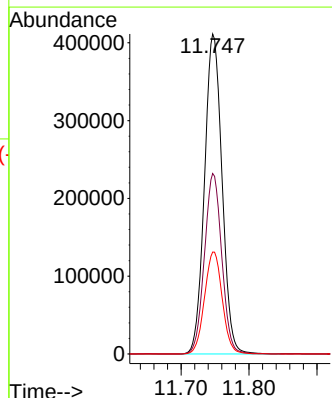
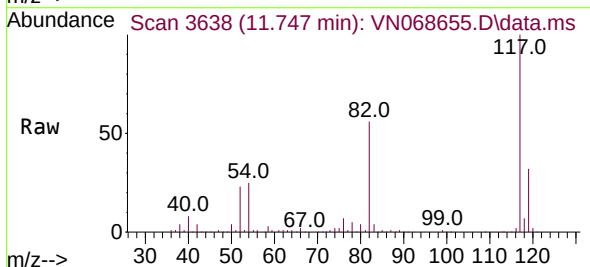
Instrument :
MSVOA_N
ClientSampleId :
11934

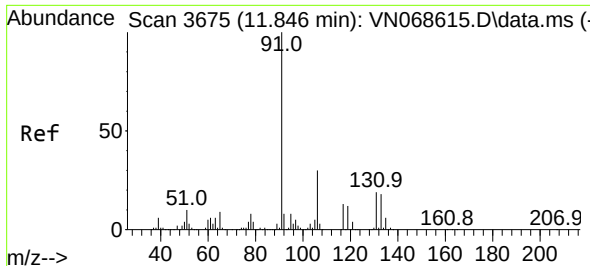
Tgt Ion: 95 Resp: 349729
Ion Ratio Lower Upper
95 100
174 77.8 0.0 122.0
176 74.9 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 117 Resp: 736957
Ion Ratio Lower Upper
117 100
82 56.4 53.1 79.7
119 31.9 25.5 38.3

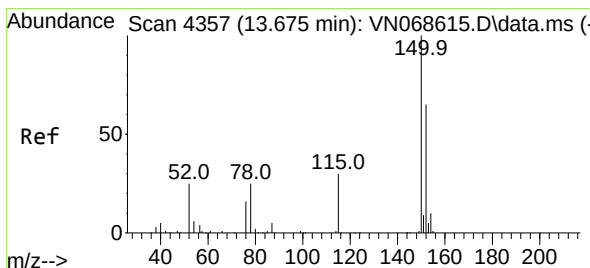
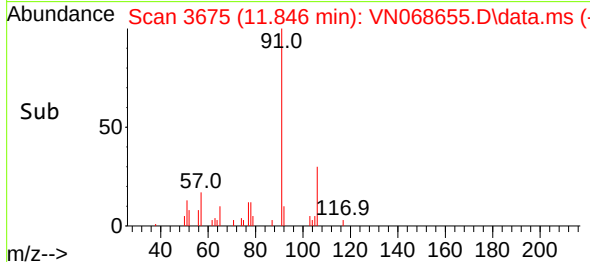
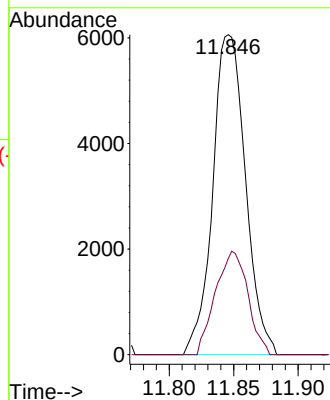
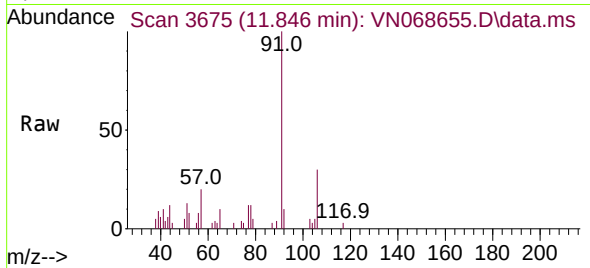




#67
Ethyl Benzene
Concen: 0.378 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. -0.000 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

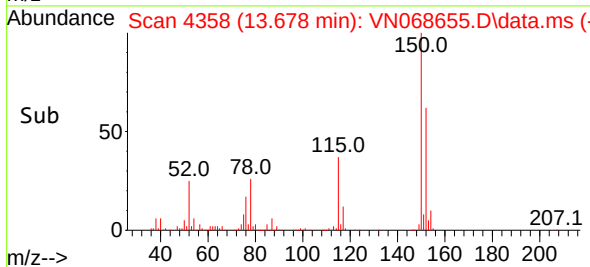
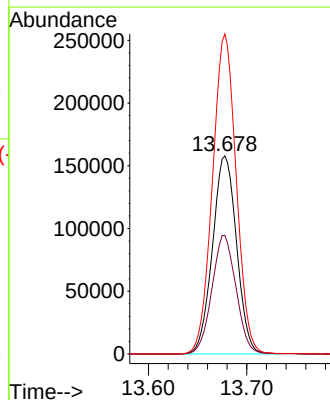
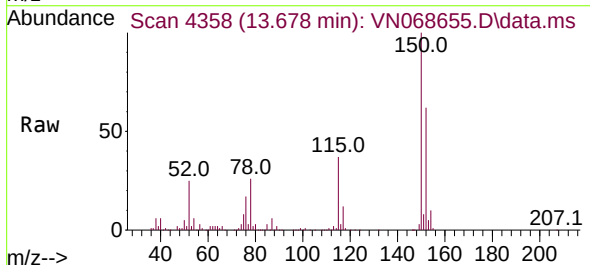
Instrument :
MSVOA_N
ClientSampled :
11934

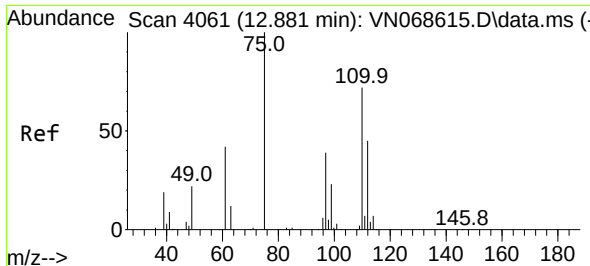
Tgt Ion: 91 Resp: 10725
Ion Ratio Lower Upper
91 100
106 30.1 23.4 35.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion:152 Resp: 269064
Ion Ratio Lower Upper
152 100
115 59.9 36.1 108.5
150 159.0 0.0 351.8

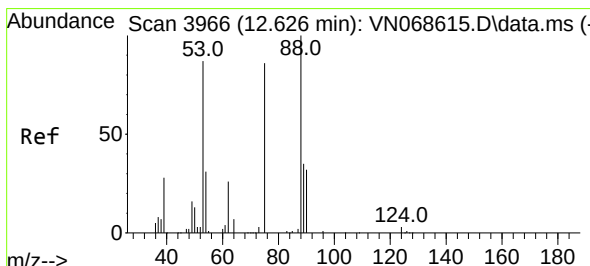
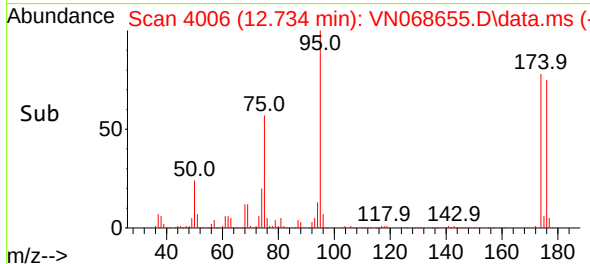
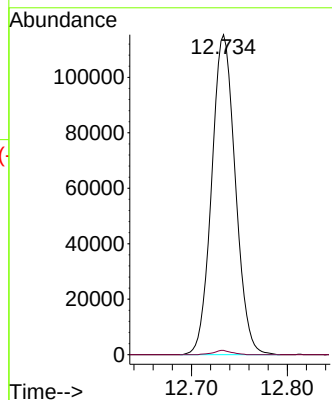
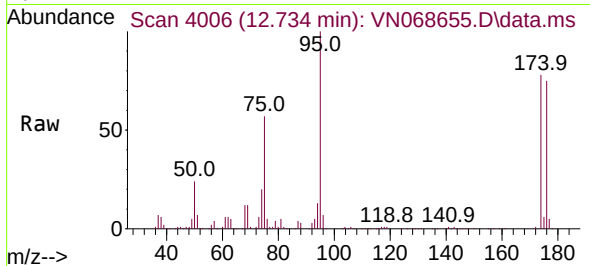




#76
1,2,3-Trichloropropane
Concen: 29.682 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

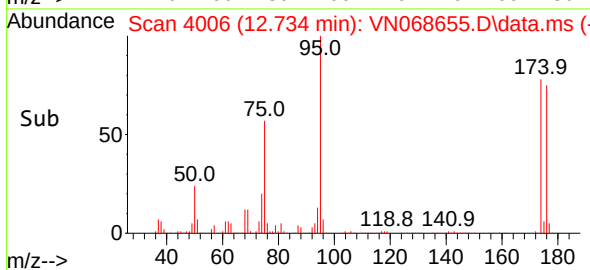
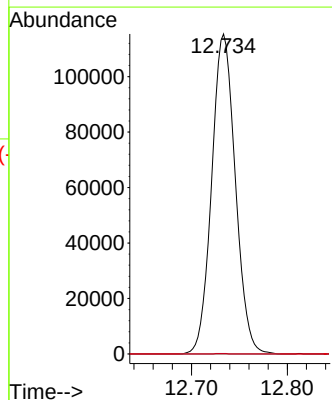
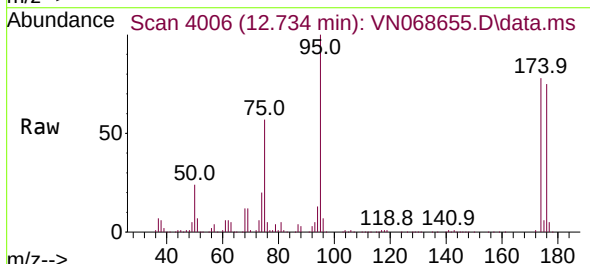
Instrument :
MSVOA_N
ClientSampled :
11934

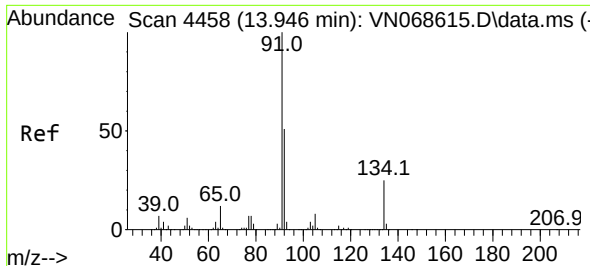
Tgt Ion: 75 Resp: 197471
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 83.845 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion: 75 Resp: 197471
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#

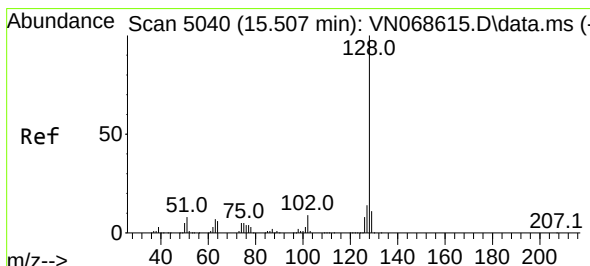
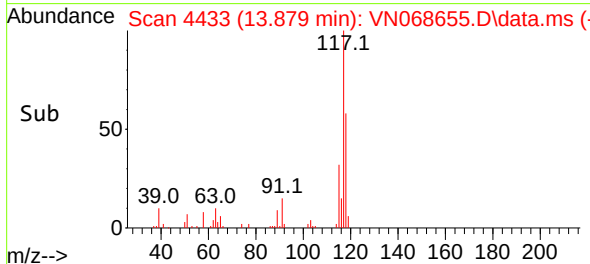
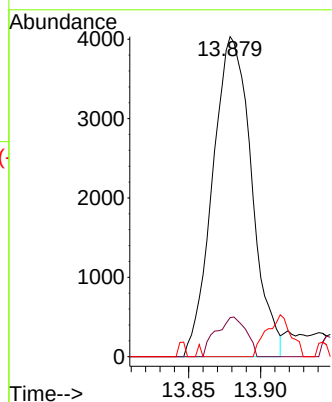
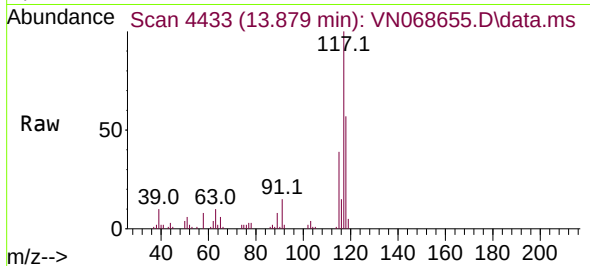




#89
n-Butylbenzene
Concen: 0.467 ug/l
RT: 13.879 min Scan# 4433
Delta R.T. -0.067 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Instrument :
MSVOA_N
ClientSampled :
11934

Tgt Ion:	91	Resp:	7594
Ion	Ratio	Lower	Upper
91	100		
92	9.5	25.7	77.1#
134	0.0	11.2	33.6#



#95
Naphthalene
Concen: 2.248 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068655.D
Acq: 24 Sep 2021 22:05

Tgt Ion:	128	Resp:	8714
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.6	15.8
129	8.7	8.6	12.8

