

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102121\
 Data File : VN069100.D
 Acq On : 21 Oct 2021 20:14
 Operator : JC/MD
 Sample : M4299-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 22 01:35:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

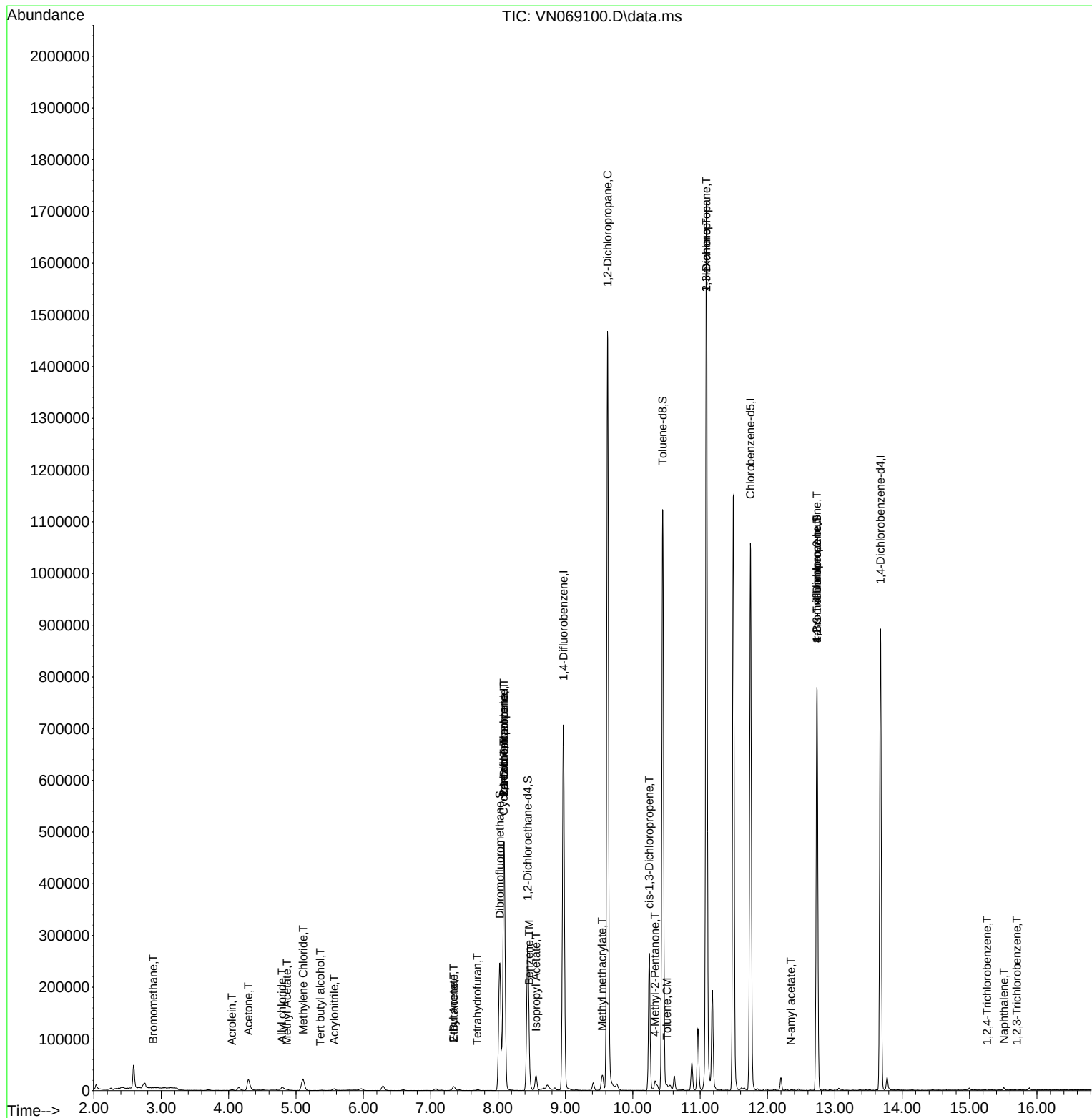
Internal Standards						
1) Pentafluorobenzene	8.088	168	358457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	631967	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	618384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	231812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	235625	49.856	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.720%		
35) Dibromofluoromethane	8.027	113	182617	49.667	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	99.340%		
50) Toluene-d8	10.443	98	795832	54.095	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	108.200%		
62) 4-Bromofluorobenzene	12.733	95	287407	51.780	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	103.560%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.880	94	512	0.209	ug/l #	79
11) Tert butyl alcohol	5.361	59	570	0.660	ug/l #	72
13) Acrolein	4.047	56	1326	3.471	ug/l #	53
14) Allyl chloride	4.792	41	12278	1.977	ug/l #	38
15) Acrylonitrile	5.567	53	3936	2.034	ug/l #	88
16) Acetone	4.293	43	39674	22.495	ug/l	99
18) Methyl Acetate	4.867	43	3244	0.485	ug/l #	59
20) Methylene Chloride	5.106	84	18148	4.471	ug/l	98
25) 2-Butanone	7.340	43	13272	4.976	ug/l	96
29) Tetrahydrofuran	7.691	42	497	0.287	ug/l #	81
31) Cyclohexane	8.083	56	8204	1.116	ug/l #	12
36) 1,1-Dichloropropene	8.088	75	30447	5.640	ug/l #	49
37) Ethyl Acetate	7.340	43	13272	2.381	ug/l #	68
38) Carbon Tetrachloride	8.088	117	37058	6.251	ug/l #	16
40) Benzene	8.461	78	9021	0.549	ug/l	95
43) Isopropyl Acetate	8.563	43	33548	3.411	ug/l #	91
45) 1,2-Dichloropropane	9.625	63	1880	0.441	ug/l #	43
48) Methyl methacrylate	9.545	41	8329	1.802	ug/l #	13
51) 4-Methyl-2-Pentanone	10.330	43	12886	2.259	ug/l	96
52) Toluene	10.507	92	2868	0.271	ug/l	94
54) cis-1,3-Dichloropropene	10.245	75	48713	6.851	ug/l #	61
57) 1,3-Dichloropropane	11.092	76	19183	2.790	ug/l #	42
59) 2-Hexanone	11.092	43	271618	66.406	ug/l #	51
74) N-amyl acetate	12.347	43	1829	0.250	ug/l #	44
76) 1,2,3-Trichloropropane	12.733	75	150772	30.568	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	150772	73.133	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.260	180	273	2.668	ug/l #	1
95) Naphthalene	15.509	128	4781	4.222	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.702	180	548	2.654	ug/l #	65

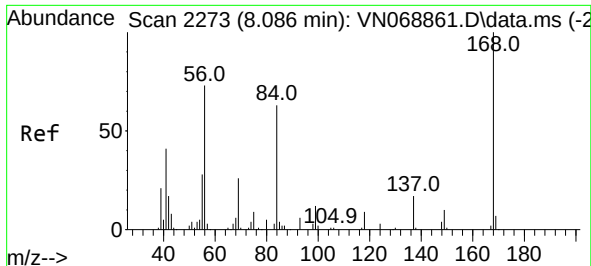
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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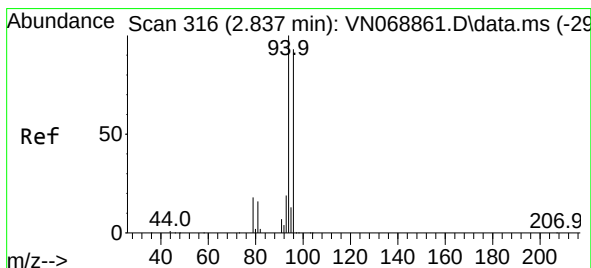
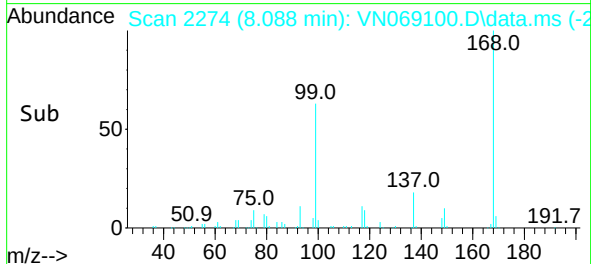
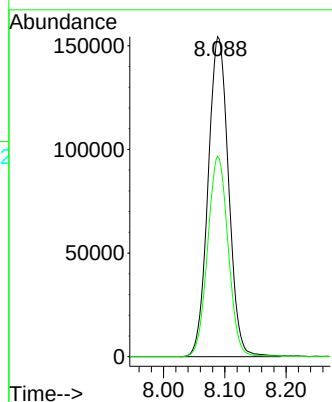
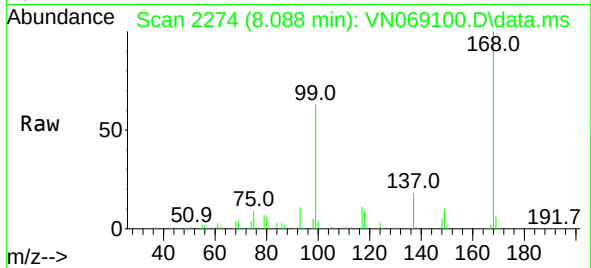




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

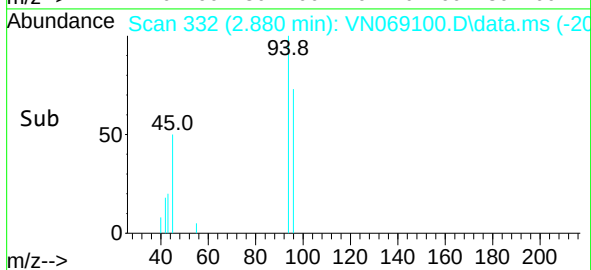
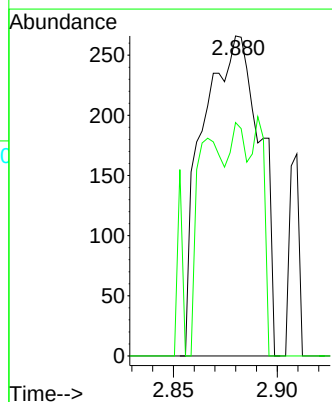
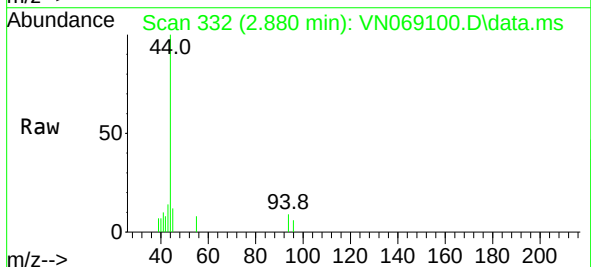
Instrument :
MSVOA_N
ClientSampled :

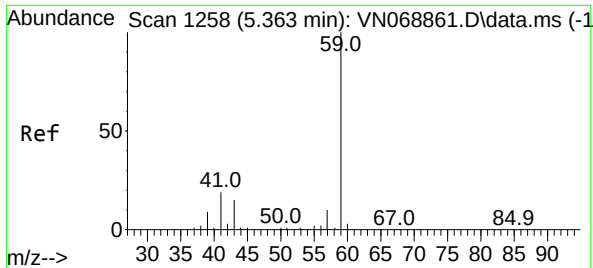
Tgt Ion:168 Resp: 358457
Ion Ratio Lower Upper
168 100
99 62.6 48.9 73.3



#5
Bromomethane
Concen: 0.209 ug/l
RT: 2.880 min Scan# 332
Delta R.T. 0.043 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 94 Resp: 512
Ion Ratio Lower Upper
94 100
96 72.9 74.2 111.4#



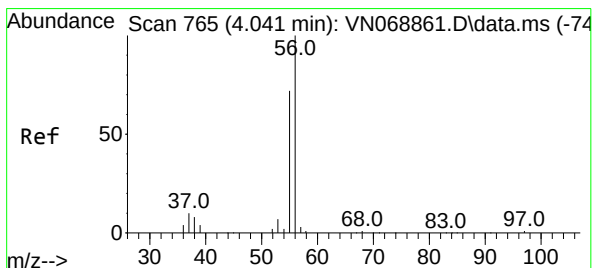
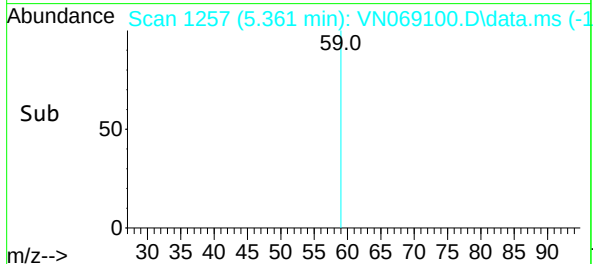
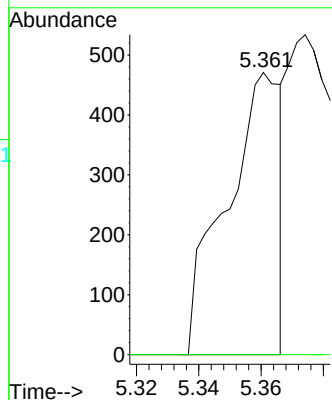
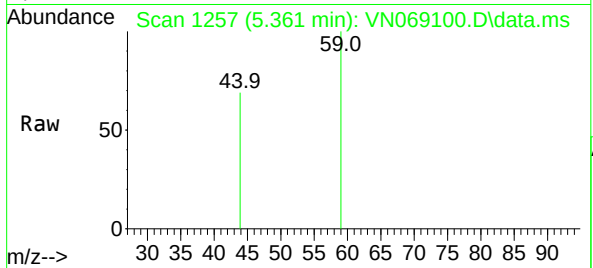


#11

Tert butyl alcohol
Concen: 0.660 ug/l
RT: 5.361 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Instrument :
MSVOA_N
ClientSampled :

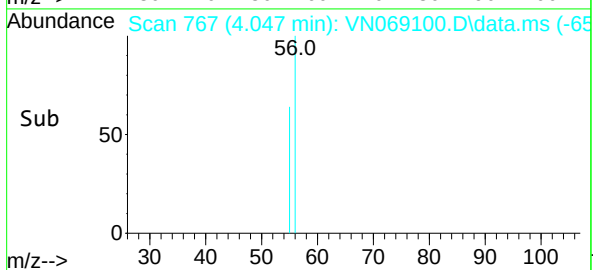
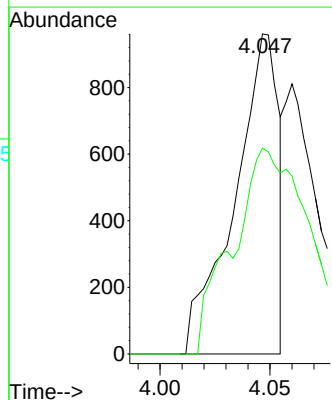
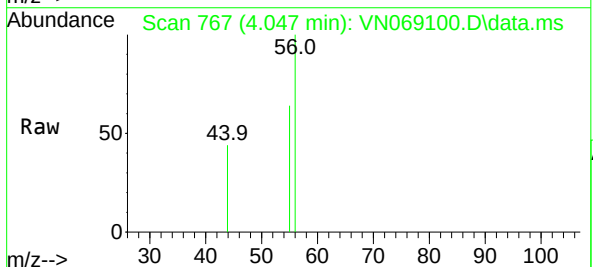
Tgt Ion: 59 Resp: 570
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

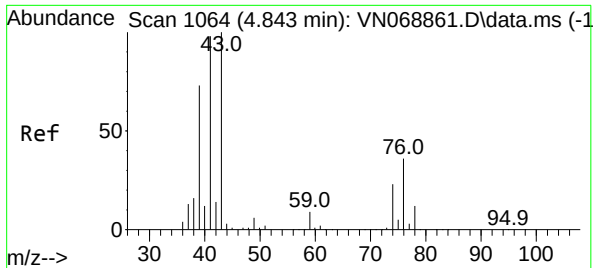


#13

Acrolein
Concen: 3.471 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.005 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 56 Resp: 1326
Ion Ratio Lower Upper
56 100
55 111.7 58.1 87.1#

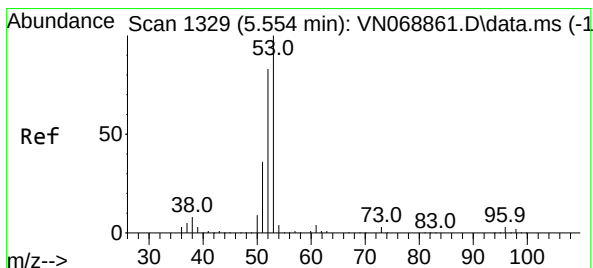
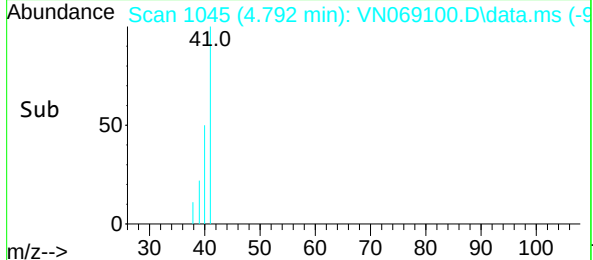
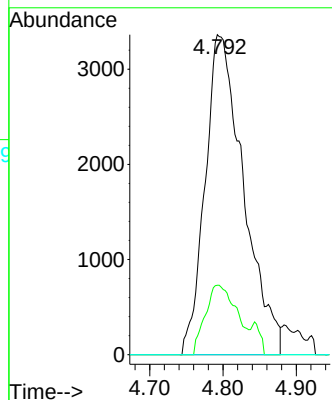
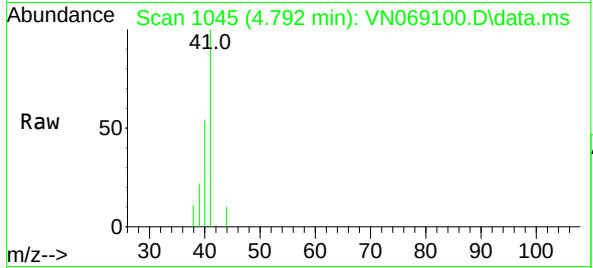




#14
 Allyl chloride
 Concen: 1.977 ug/l
 RT: 4.792 min Scan# 1045
 Delta R.T. -0.051 min
 Lab File: VN069100.D
 Acq: 21 Oct 2021 20:14

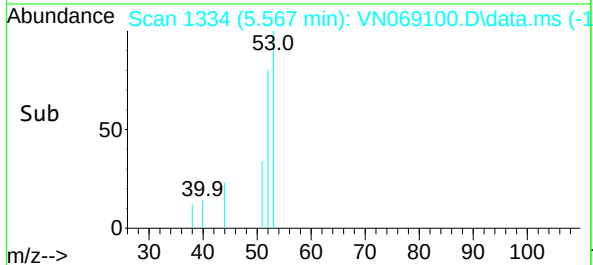
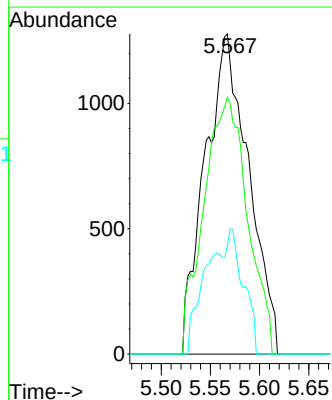
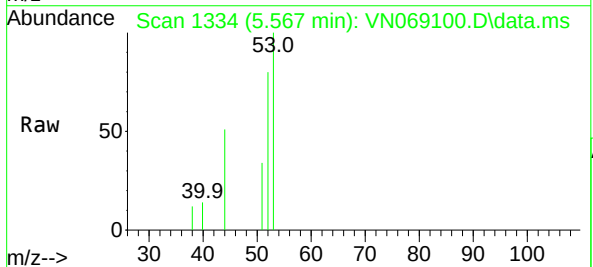
Instrument :
 MSVOA_N
 ClientSampled :

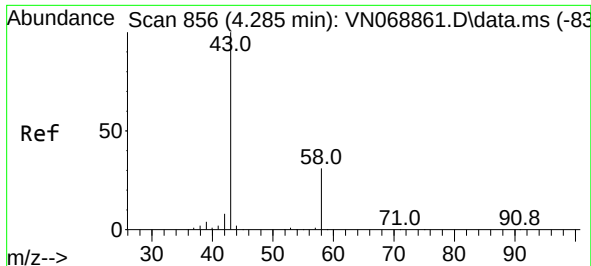
Tgt Ion:	41	Resp:	12278
Ion	Ratio	Lower	Upper
41	100		
39	17.7	55.6	83.4#
76	0.0	26.4	39.6#



#15
 Acrylonitrile
 Concen: 2.034 ug/l
 RT: 5.567 min Scan# 1334
 Delta R.T. 0.013 min
 Lab File: VN069100.D
 Acq: 21 Oct 2021 20:14

Tgt Ion:	53	Resp:	3936
Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.7	98.5
51	14.9	28.9	43.3#

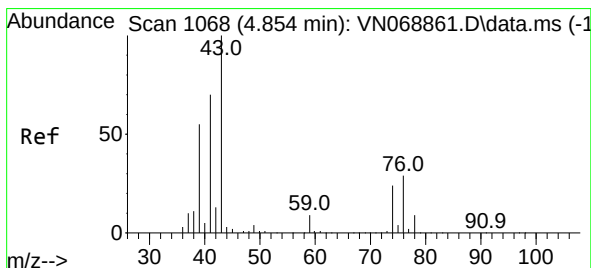
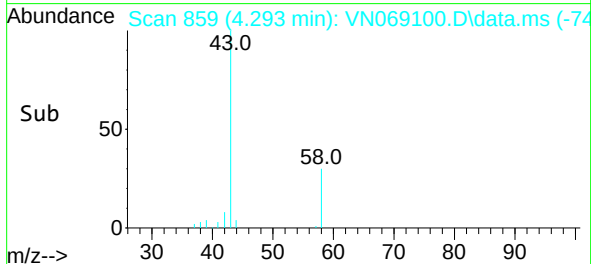
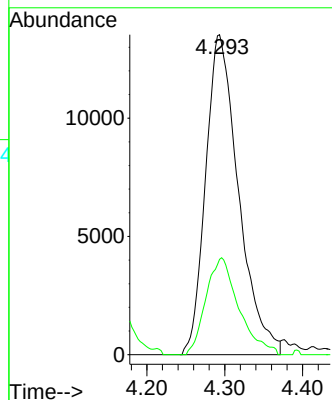
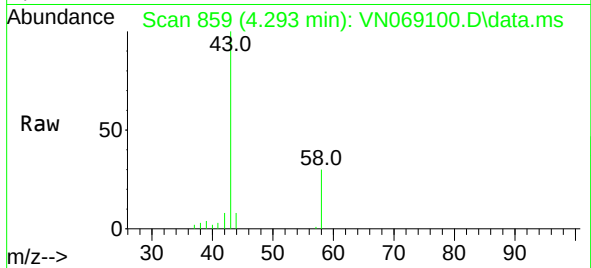




#16
Acetone
Concen: 22.495 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.008 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

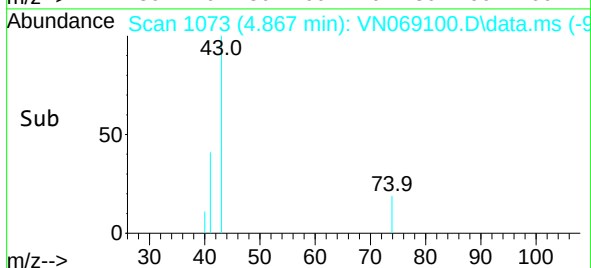
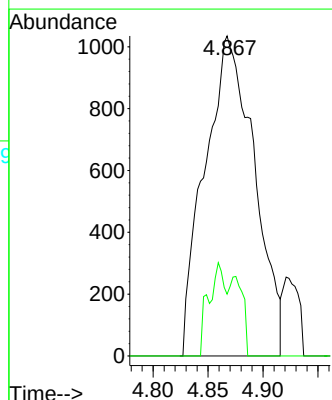
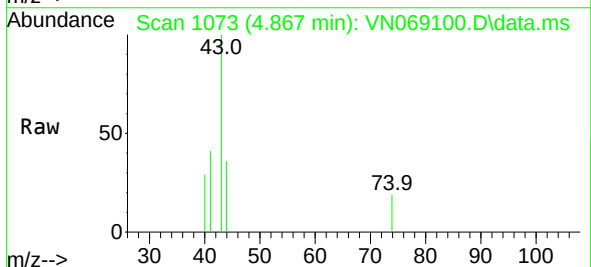
Instrument :
MSVOA_N
ClientSampled :

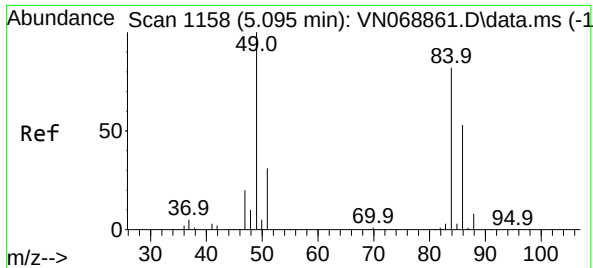
Tgt Ion: 43 Resp: 39674
Ion Ratio Lower Upper
43 100
58 29.8 24.5 36.7



#18
Methyl Acetate
Concen: 0.485 ug/l
RT: 4.867 min Scan# 1073
Delta R.T. 0.013 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

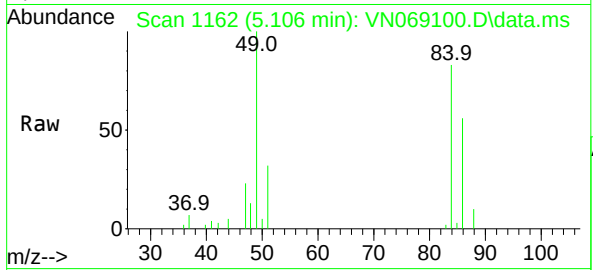
Tgt Ion: 43 Resp: 3244
Ion Ratio Lower Upper
43 100
74 3.4 18.9 28.3#



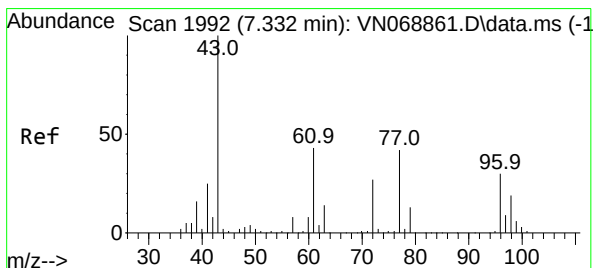
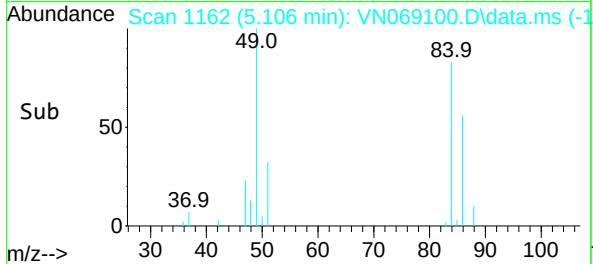
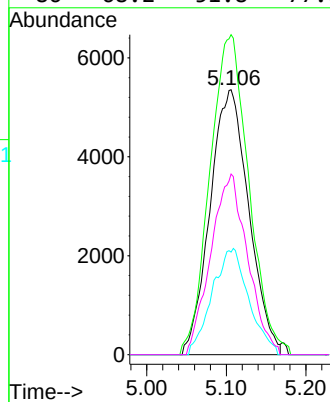


#20
Methylene Chloride
Concen: 4.471 ug/l
RT: 5.106 min Scan# 1162
Delta R.T. 0.011 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Instrument :
MSVOA_N
ClientSampled :

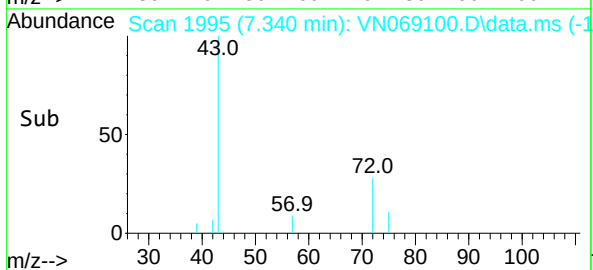
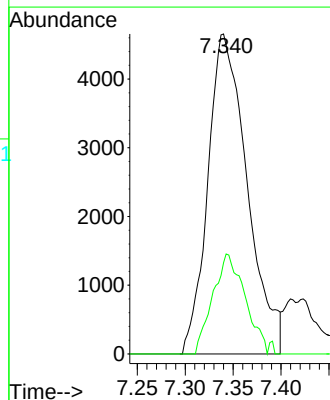
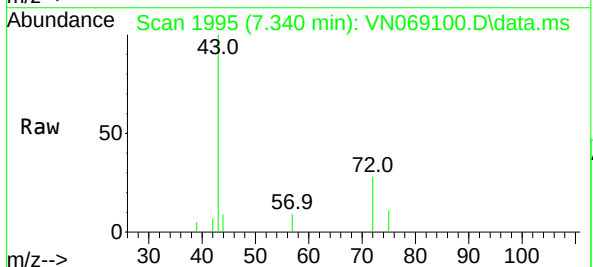


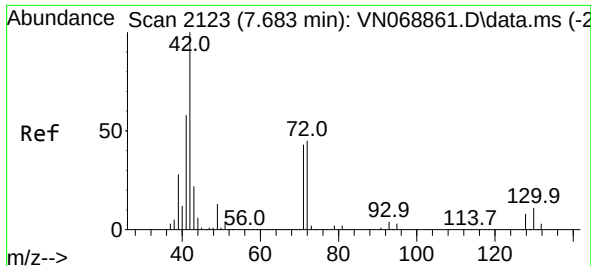
Tgt Ion:	84	Resp:	18148
Ion	Ratio	Lower	Upper
84	100		
49	120.8	97.6	146.4
51	38.7	30.3	45.5
86	68.2	51.8	77.6



#25
2-Butanone
Concen: 4.976 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.008 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion:	43	Resp:	13272
Ion	Ratio	Lower	Upper
43	100		
72	28.5	21.2	31.8





#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 7.691 min Scan# 2126

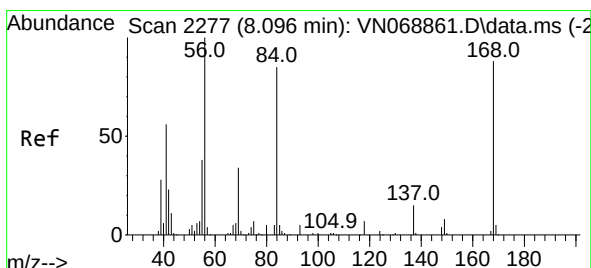
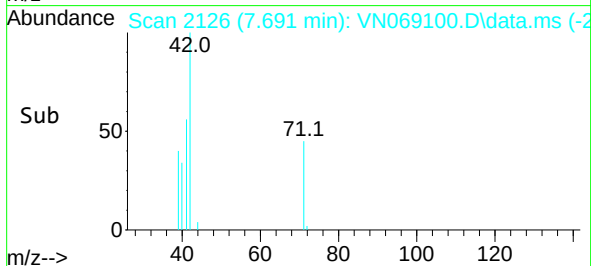
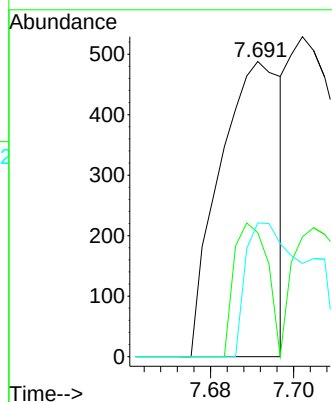
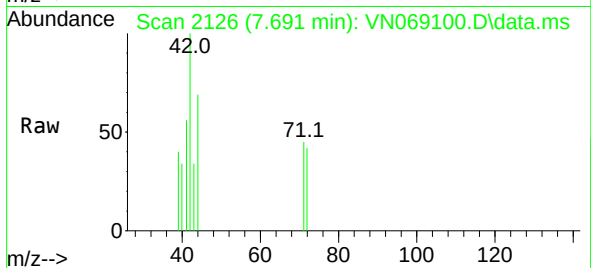
Delta R.T. 0.008 min

Lab File: VN069100.D

Acq: 21 Oct 2021 20:14

Tgt Ion:	42	Resp:	497
Ion	Ratio	Lower	Upper
42	100		
72	24.7	35.4	53.2#
71	46.9	33.8	50.6

Instrument :
MSVOA_N
ClientSampleId :



#31

Cyclohexane

Concen: 1.116 ug/l

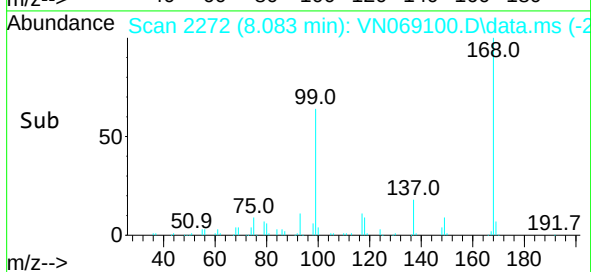
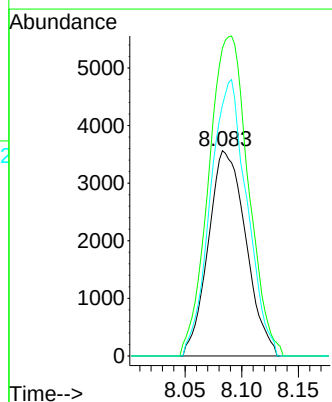
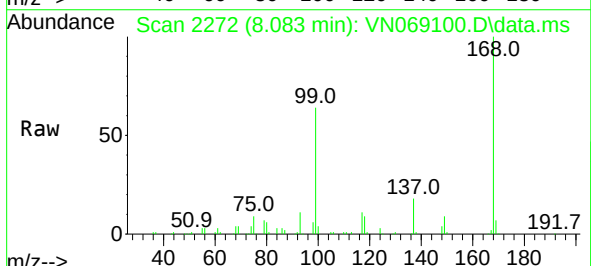
RT: 8.083 min Scan# 2272

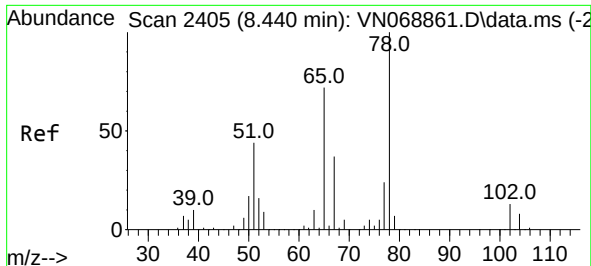
Delta R.T. -0.013 min

Lab File: VN069100.D

Acq: 21 Oct 2021 20:14

Tgt Ion:	56	Resp:	8204
Ion	Ratio	Lower	Upper
56	100		
69	150.0	26.9	40.3#
84	122.2	67.6	101.4#

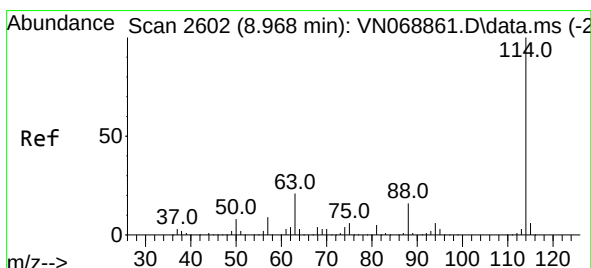
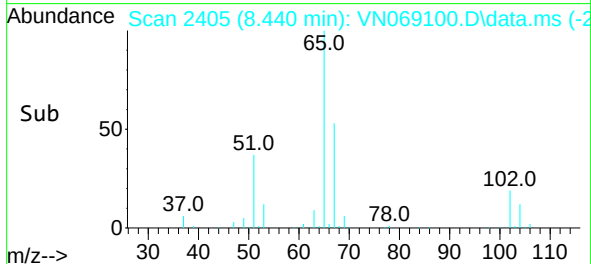
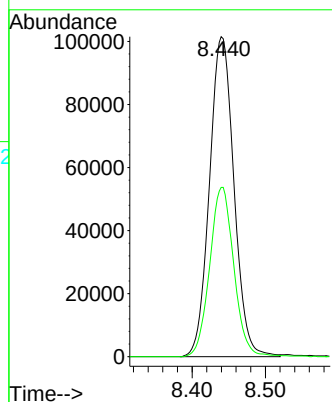
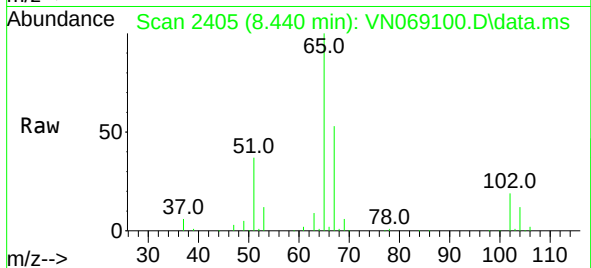




#33
 1,2-Dichloroethane-d4
 Concen: 49.856 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.000 min
 Lab File: VN069100.D
 Acq: 21 Oct 2021 20:14

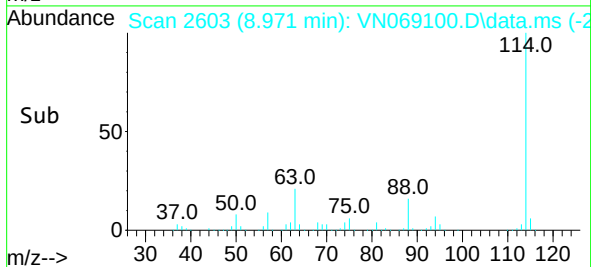
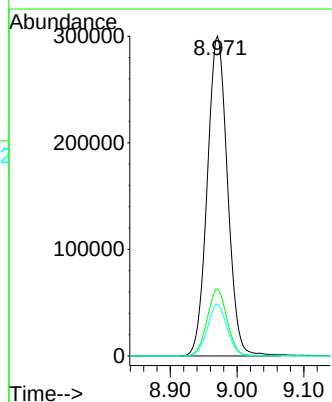
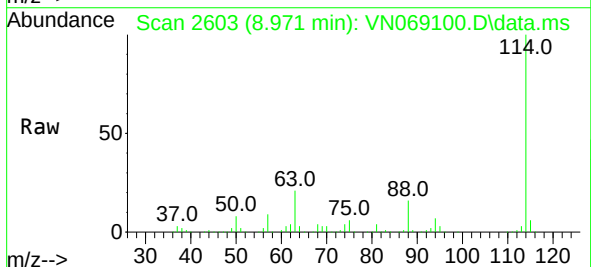
Instrument :
 MSVOA_N
 ClientSampled :

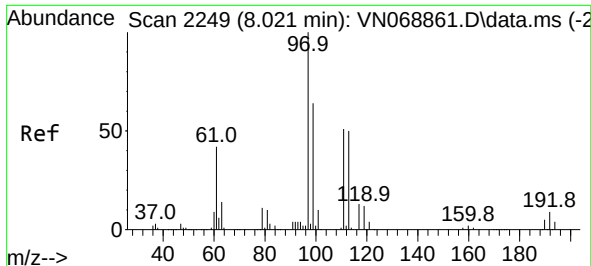
Tgt Ion: 65 Resp: 235625
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN069100.D
 Acq: 21 Oct 2021 20:14

Tgt Ion: 114 Resp: 631967
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.6
 88 16.3 0.0 32.0

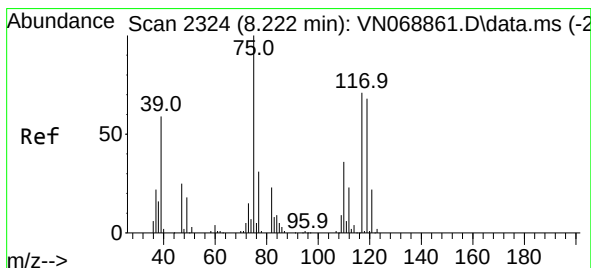
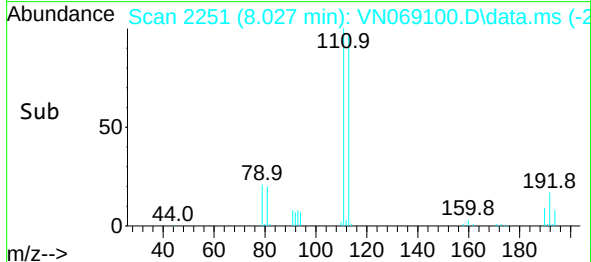
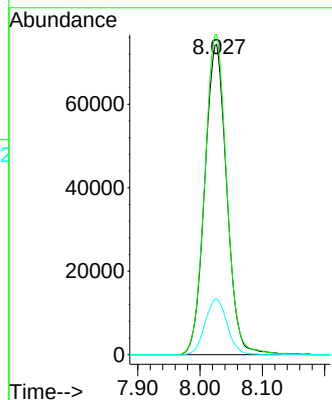
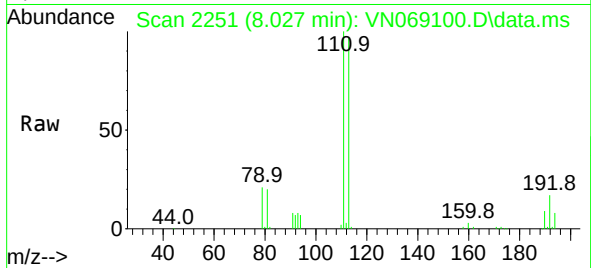




#35
Dibromofluoromethane
Concen: 49.667 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.005 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

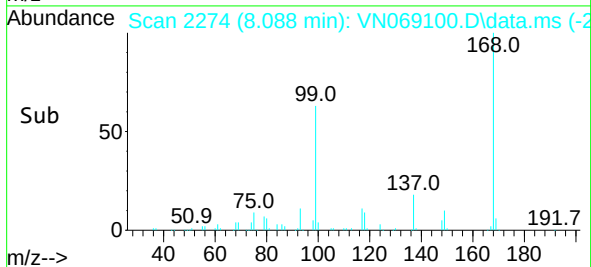
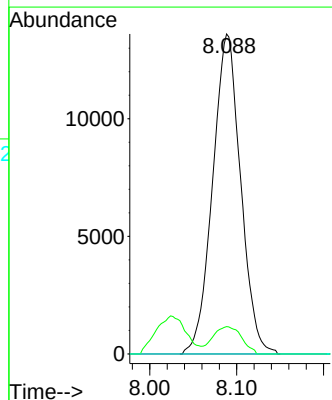
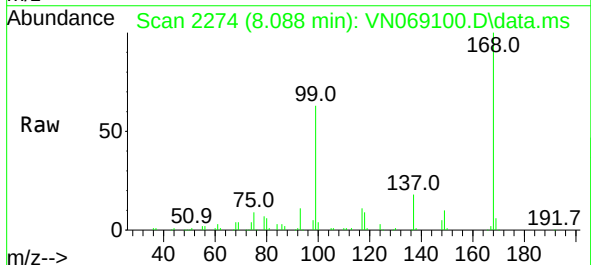
Instrument :
MSVOA_N
ClientSampleId :

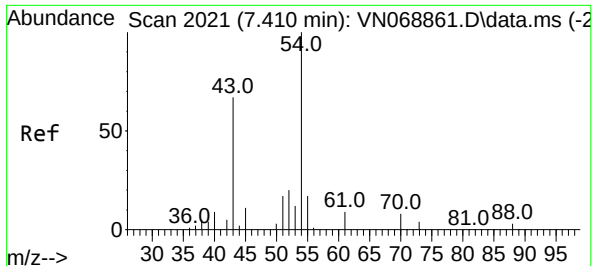
Tgt Ion:113 Resp: 182617
Ion Ratio Lower Upper
113 100
111 103.3 83.2 124.8
192 18.0 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.640 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 75 Resp: 30447
Ion Ratio Lower Upper
75 100
110 8.7 17.9 53.8#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 2.381 ug/l

RT: 7.340 min Scan# 1995

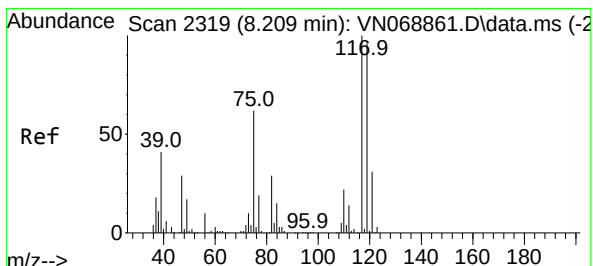
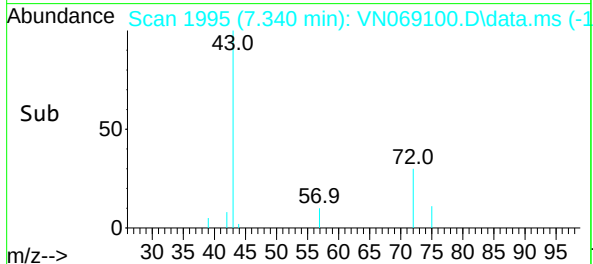
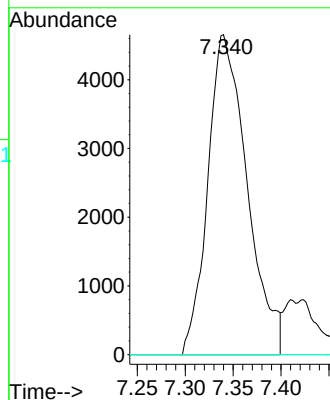
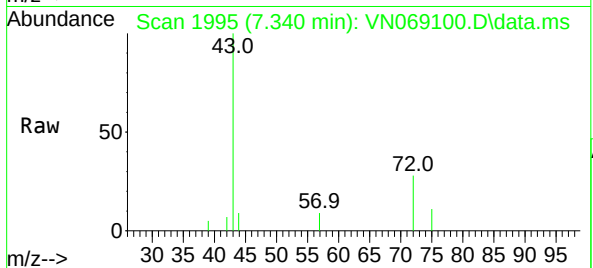
Delta R.T. -0.070 min

Lab File: VN069100.D

Acq: 21 Oct 2021 20:14

Tgt Ion:	43	Resp:	13272
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.2	16.8#
70	0.0	8.4	12.6#

Instrument :
MSVOA_N
ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.251 ug/l

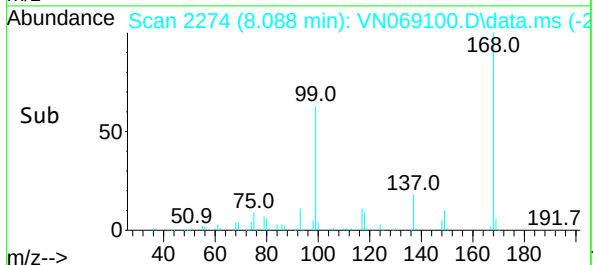
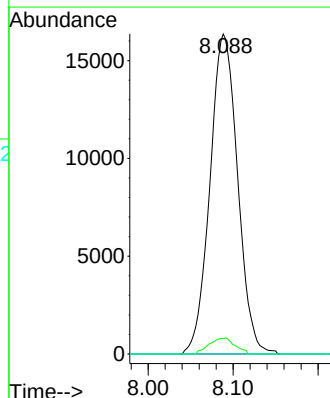
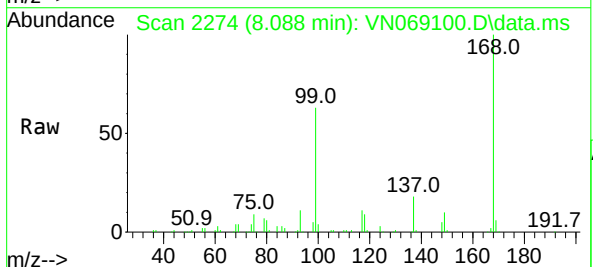
RT: 8.088 min Scan# 2274

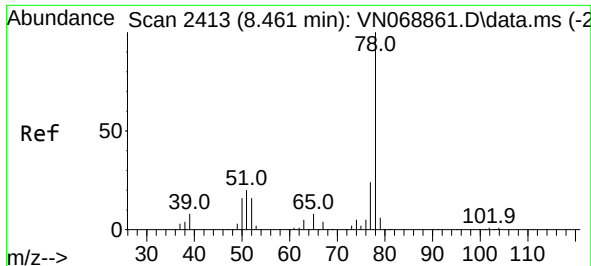
Delta R.T. -0.121 min

Lab File: VN069100.D

Acq: 21 Oct 2021 20:14

Tgt Ion:	117	Resp:	37058
Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.9	115.3#
121	0.0	24.6	37.0#

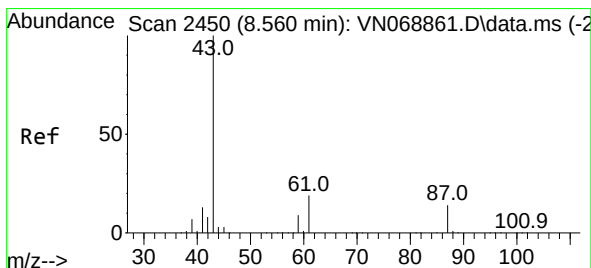
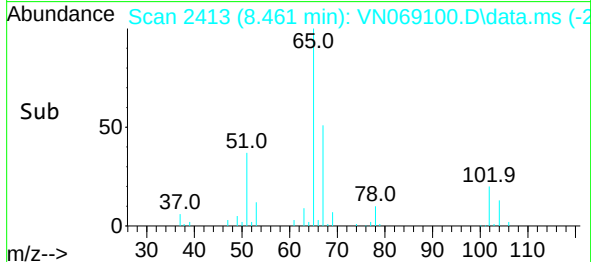
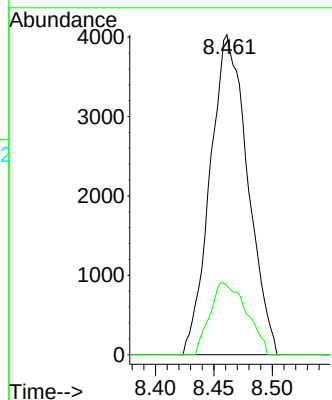
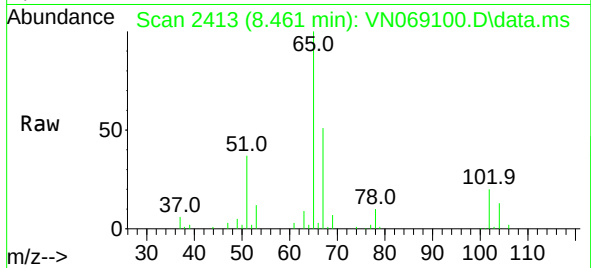




#40
Benzene
Concen: 0.549 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

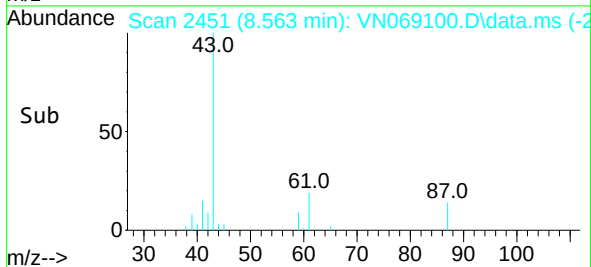
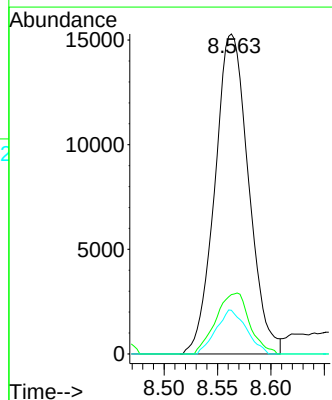
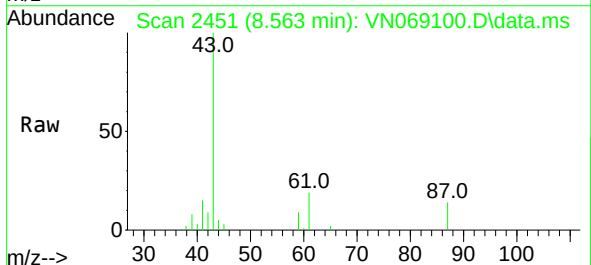
Instrument :
MSVOA_N
ClientSampled :

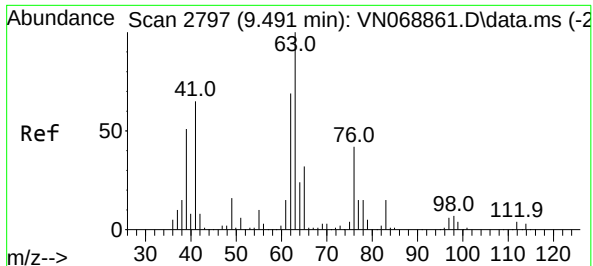
Tgt Ion: 78 Resp: 9021
Ion Ratio Lower Upper
78 100
77 21.6 19.1 28.7



#43
Isopropyl Acetate
Concen: 3.411 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 43 Resp: 33548
Ion Ratio Lower Upper
43 100
61 19.0 20.4 30.6#
87 12.3 10.7 16.1

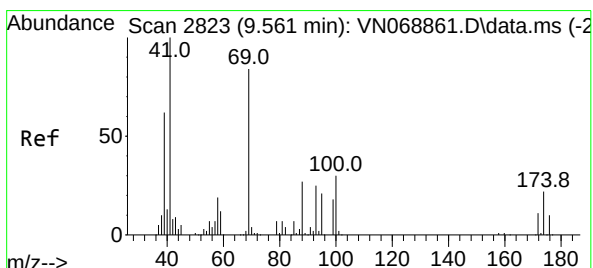
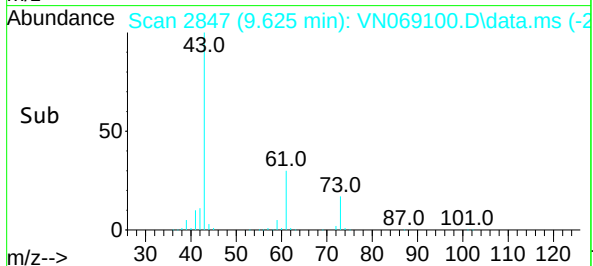
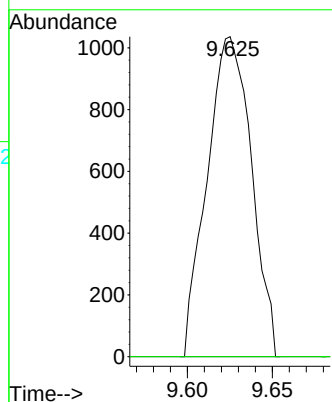
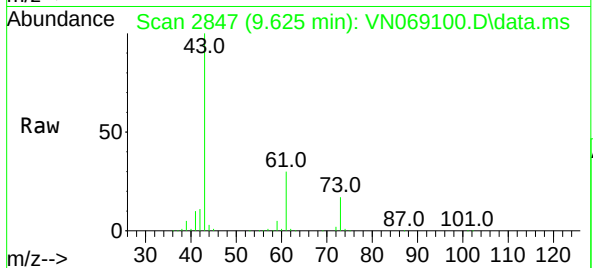




#45
1,2-Dichloropropane
Concen: 0.441 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

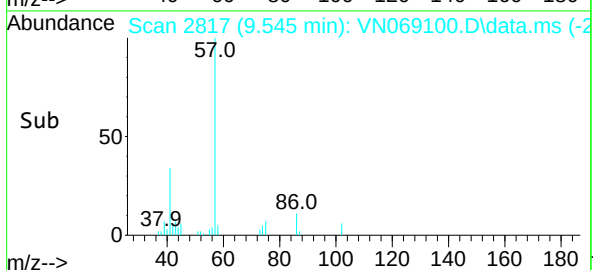
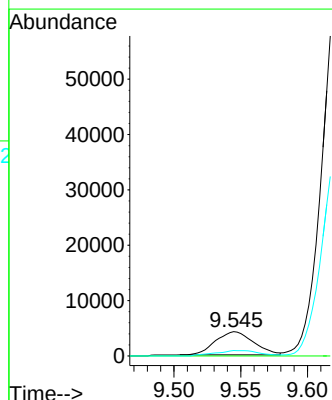
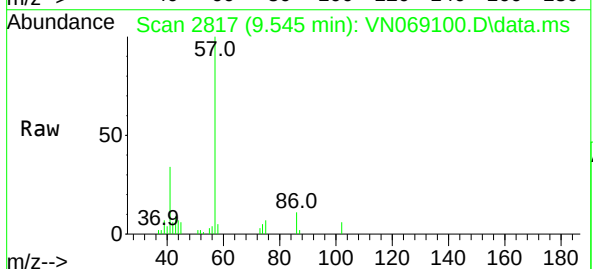
Instrument :
MSVOA_N
ClientSampled :

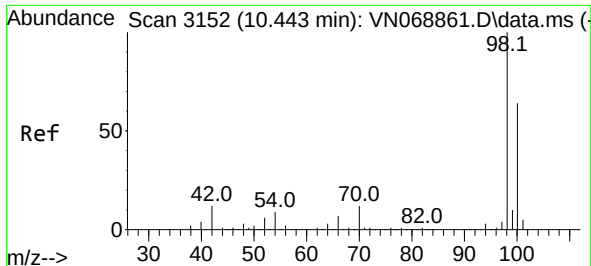
Tgt Ion: 63 Resp: 1880
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 1.802 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 41 Resp: 8329
Ion Ratio Lower Upper
41 100
69 0.0 66.4 99.6#
39 0.0 50.2 75.2#

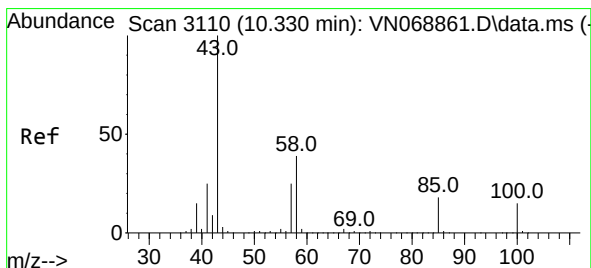
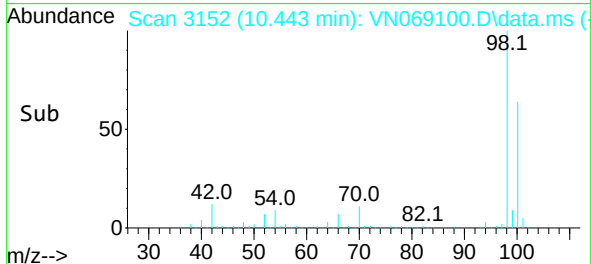
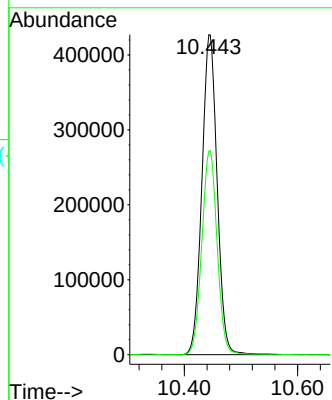
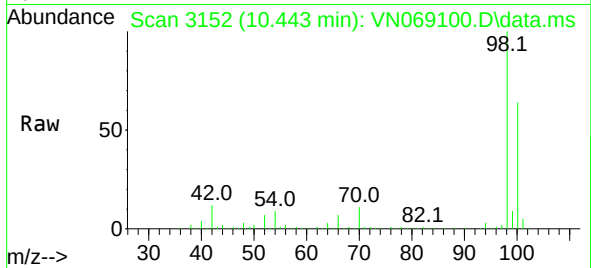




#50
Toluene-d8
Concen: 54.095 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

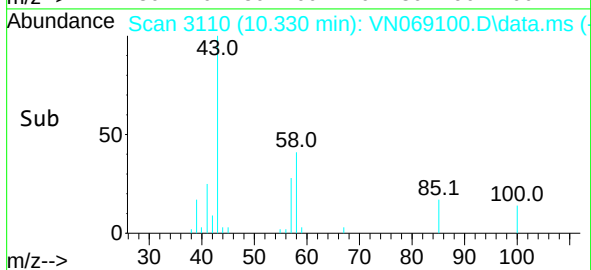
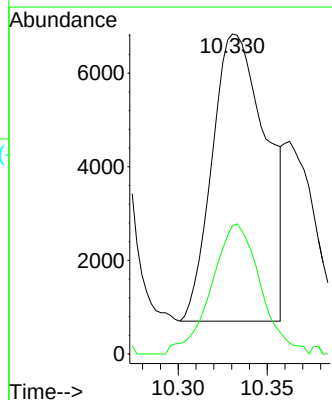
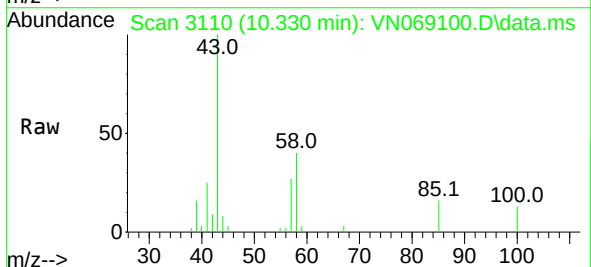
Instrument :
MSVOA_N
ClientSampleId :

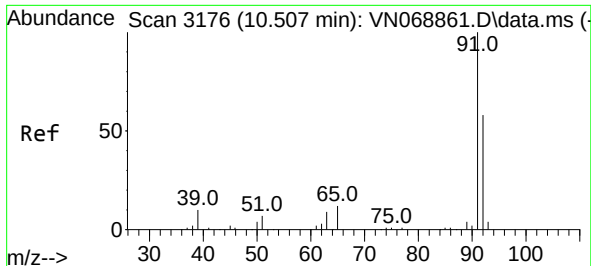
Tgt Ion: 98 Resp: 795832
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 2.259 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 43 Resp: 12886
Ion Ratio Lower Upper
43 100
58 41.2 31.0 46.4

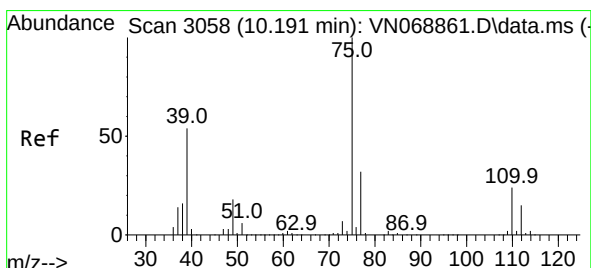
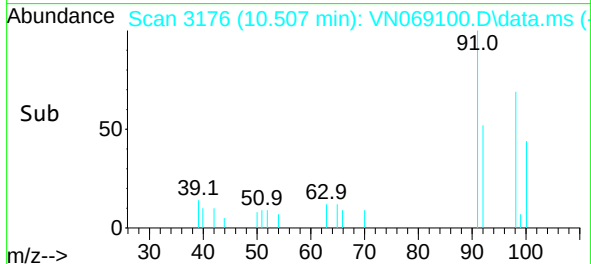
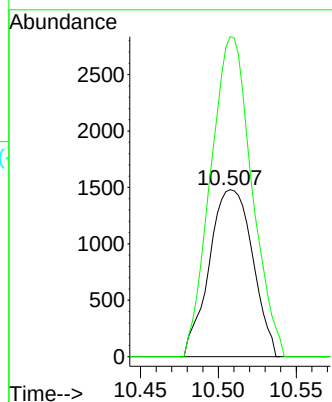
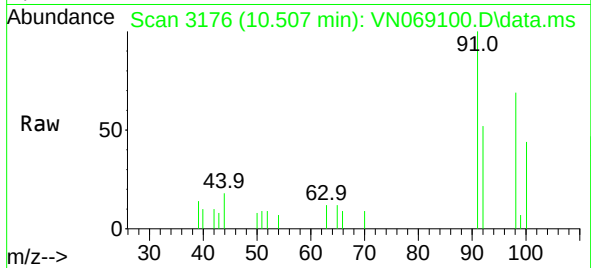




#52
Toluene
Concen: 0.271 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

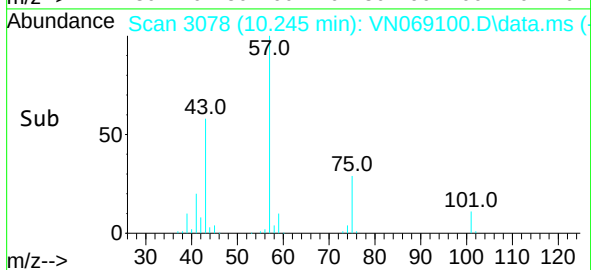
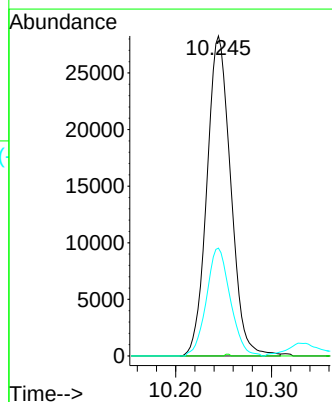
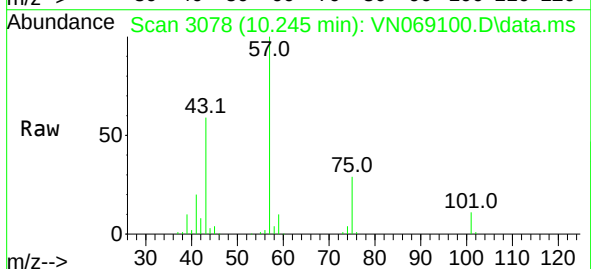
Instrument :
MSVOA_N
ClientSampled :

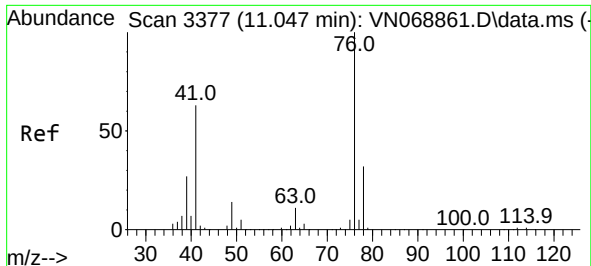
Tgt Ion: 92 Resp: 2868
Ion Ratio Lower Upper
92 100
91 181.9 138.5 207.7



#54
cis-1,3-Dichloropropene
Concen: 6.851 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 75 Resp: 48713
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#
39 33.7 42.9 64.3#

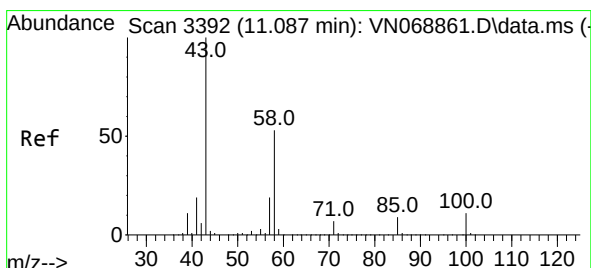
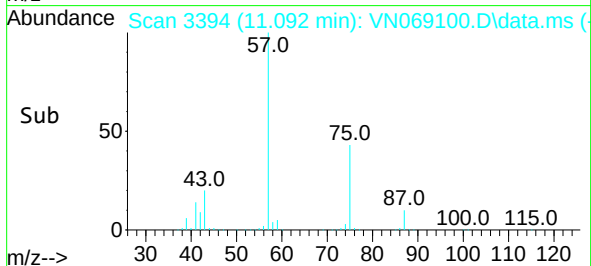
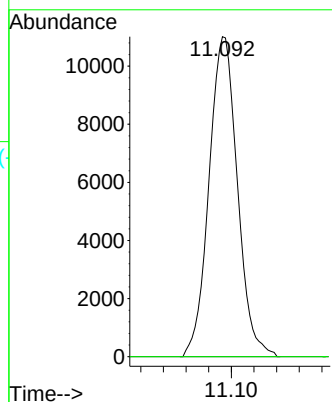
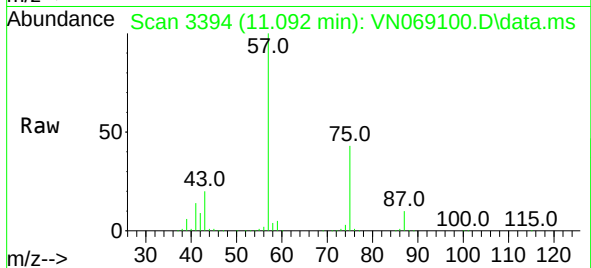




#57
1,3-Dichloropropane
Concen: 2.790 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

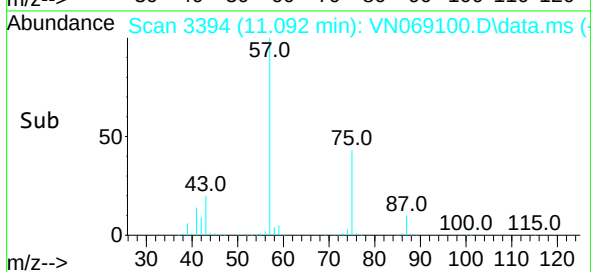
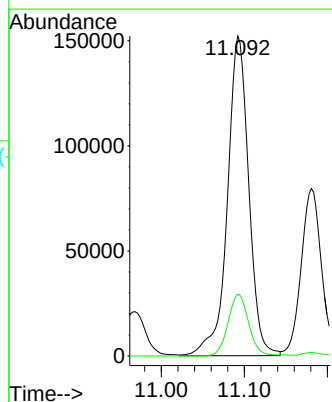
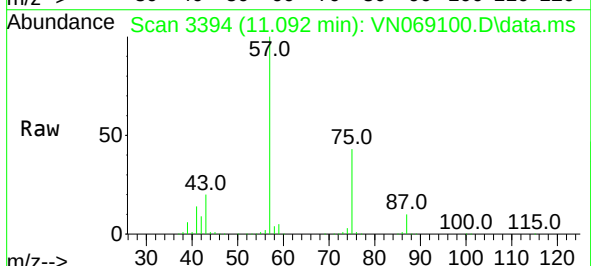
Instrument :
MSVOA_N
ClientSampleId :

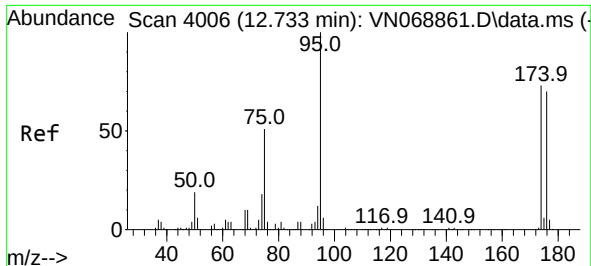
Tgt Ion: 76 Resp: 19183
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 66.406 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 43 Resp: 271618
Ion Ratio Lower Upper
43 100
58 18.6 26.9 80.7#

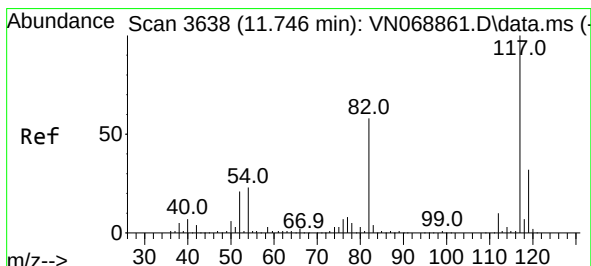
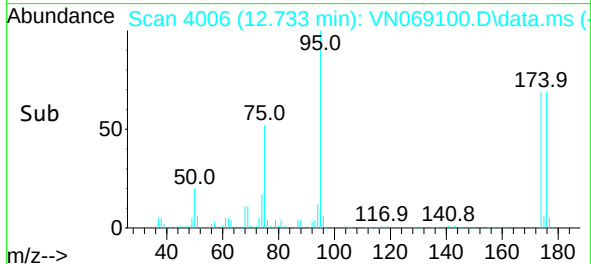
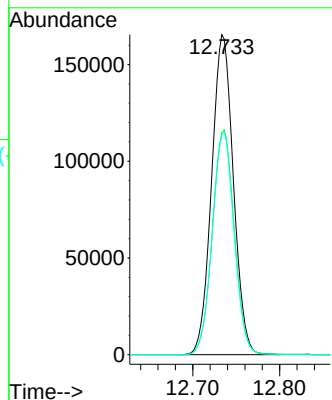
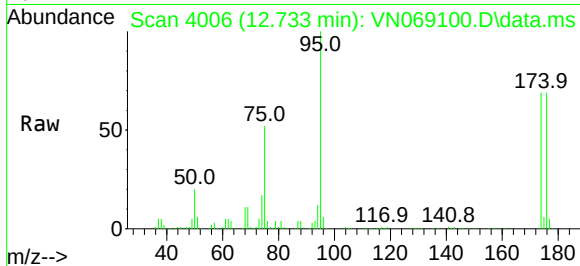




#62
4-Bromofluorobenzene
Concen: 51.780 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

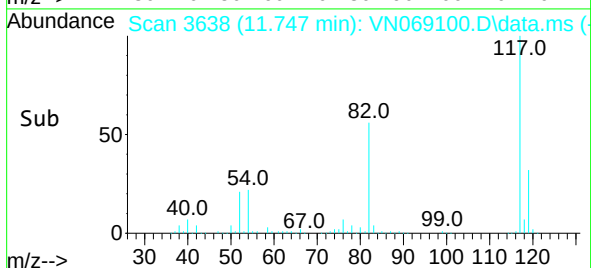
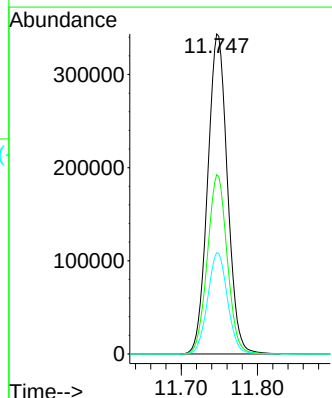
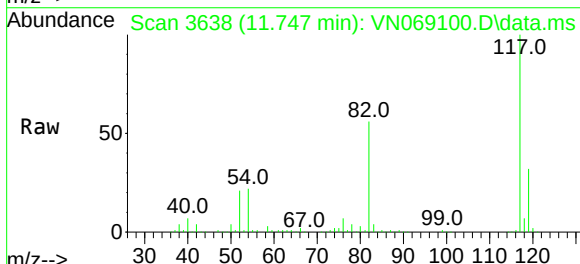
Instrument :
MSVOA_N
ClientSampled :

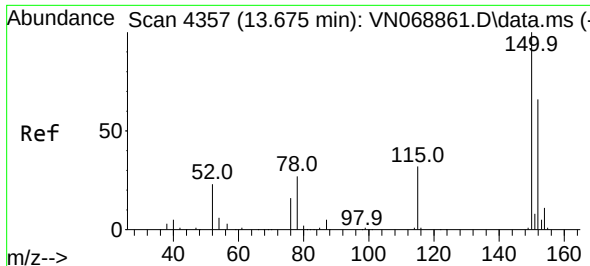
Tgt Ion: 95 Resp: 287407
Ion Ratio Lower Upper
95 100
174 71.2 0.0 144.8
176 69.7 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 117 Resp: 618384
Ion Ratio Lower Upper
117 100
82 56.0 46.4 69.6
119 31.7 26.0 39.0

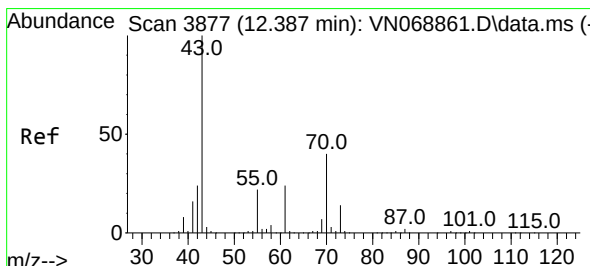
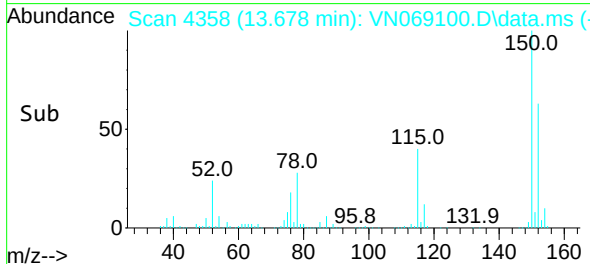
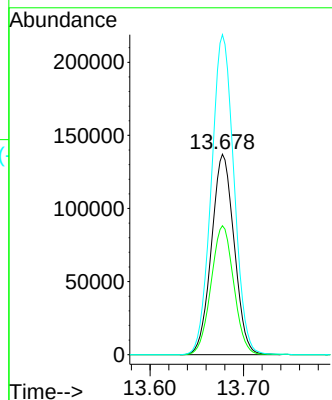
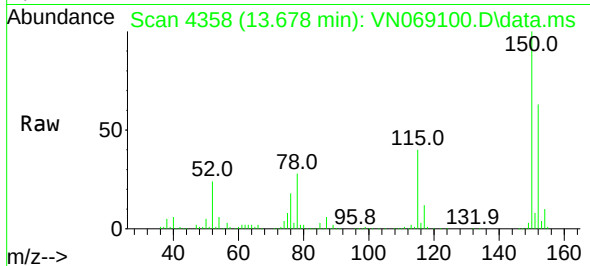




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

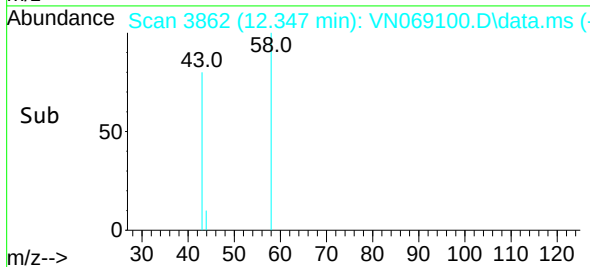
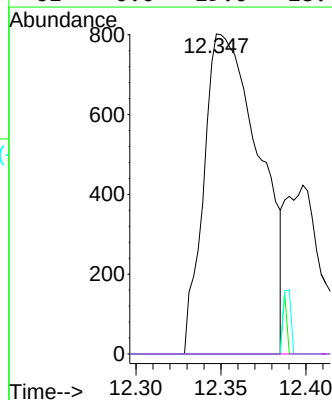
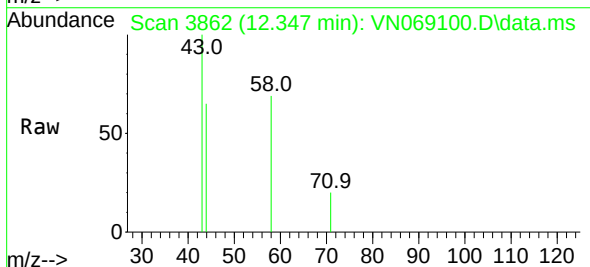
Instrument :
MSVOA_N
ClientSampleId :

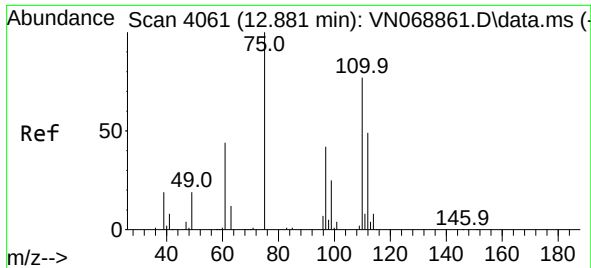
Tgt Ion:152 Resp: 231812
Ion Ratio Lower Upper
152 100
115 64.4 31.4 94.3
150 159.3 0.0 351.0



#74
N-ethyl acetate
Concen: 0.250 ug/l
RT: 12.347 min Scan# 3862
Delta R.T. -0.040 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

Tgt Ion: 43 Resp: 1829
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.2#
55 0.0 18.0 27.0#
61 0.0 19.0 28.4#

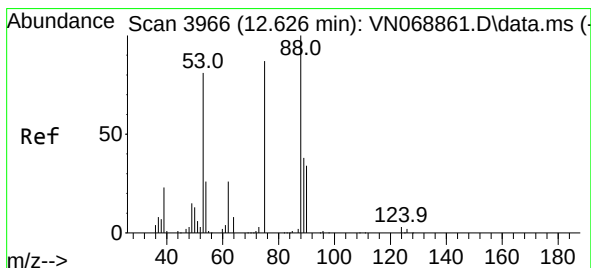
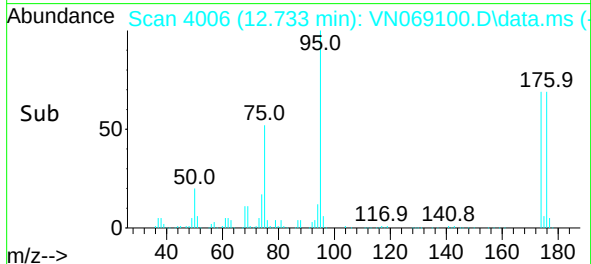
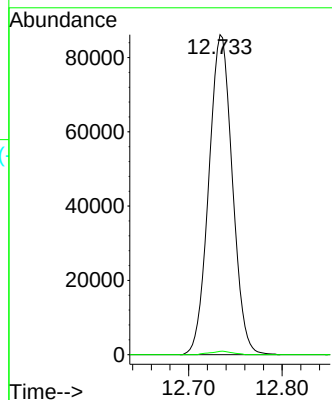
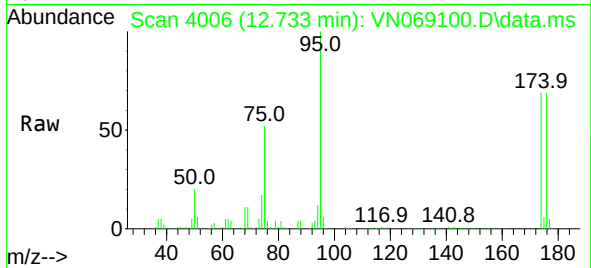




#76
1,2,3-Trichloropropane
Concen: 30.568 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

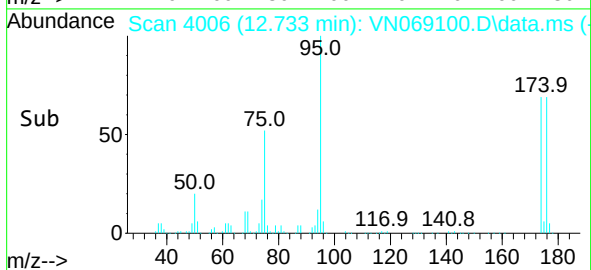
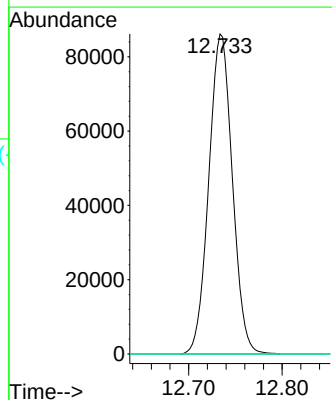
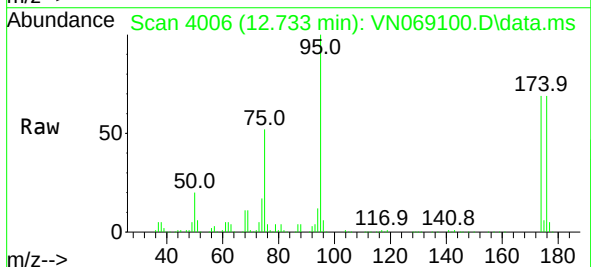
Instrument :
MSVOA_N
ClientSampleId :

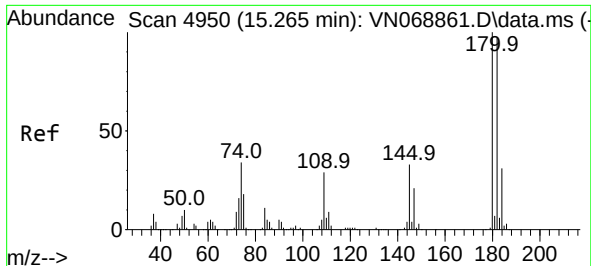
Tgt Ion: 75 Resp: 150772
Ion Ratio Lower Upper
75 100
77 1.0 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.133 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

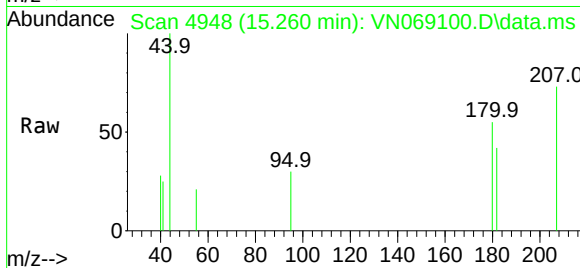
Tgt Ion: 75 Resp: 150772
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



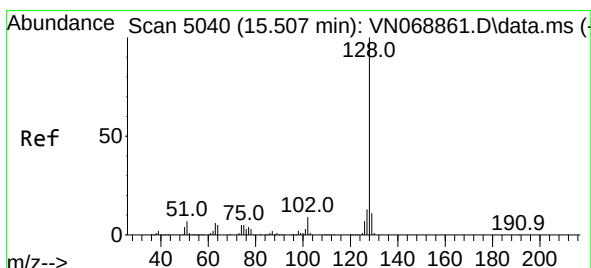
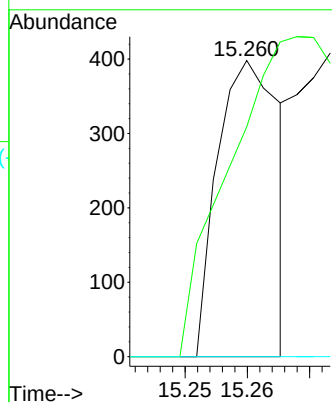
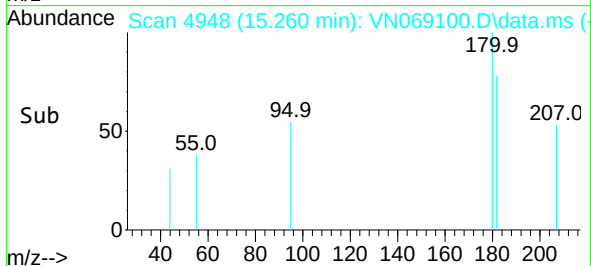


#93
1,2,4-Trichlorobenzene
Concen: 2.668 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.005 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14

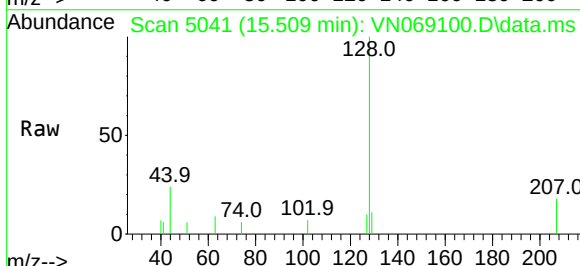
Instrument :
MSVOA_N
ClientSampled :



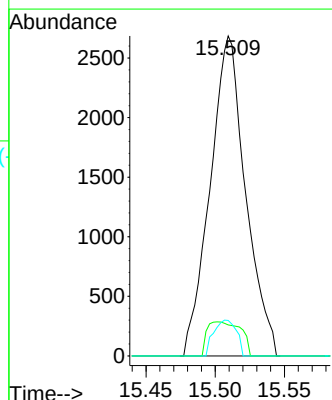
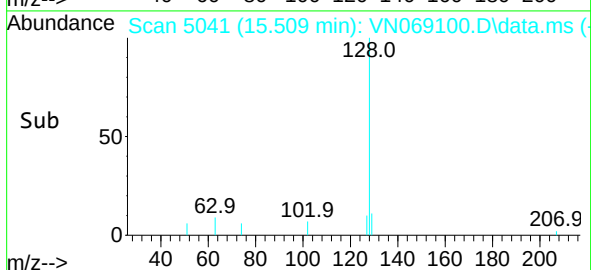
Tgt Ion:180 Resp: 273
Ion Ratio Lower Upper
180 100
182 220.1 47.9 143.7#
145 0.0 16.4 49.2#

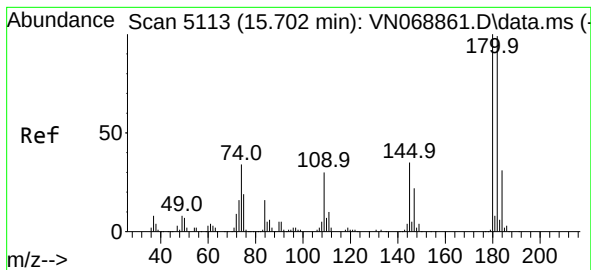


#95
Naphthalene
Concen: 4.222 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069100.D
Acq: 21 Oct 2021 20:14



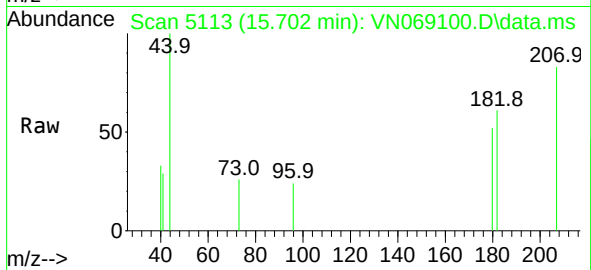
Tgt Ion:128 Resp: 4781
Ion Ratio Lower Upper
128 100
127 10.1 10.5 15.7#
129 7.2 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.654 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN069100.D
 Acq: 21 Oct 2021 20:14

Instrument :
 MSVOA_N
 ClientSampled :



Tgt Ion:	180	Resp:	548
Ion	Ratio	Lower	Upper
180	100		
182	127.9	48.1	144.3
145	9.5	17.4	52.2#

