

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082721\
 Data File : VN068347.D
 Acq On : 27 Aug 2021 16:20
 Operator : JC/MD
 Sample : PB138768ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 28 01:28:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081721W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 17 13:09:49 2021
 Response via : Initial Calibration

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

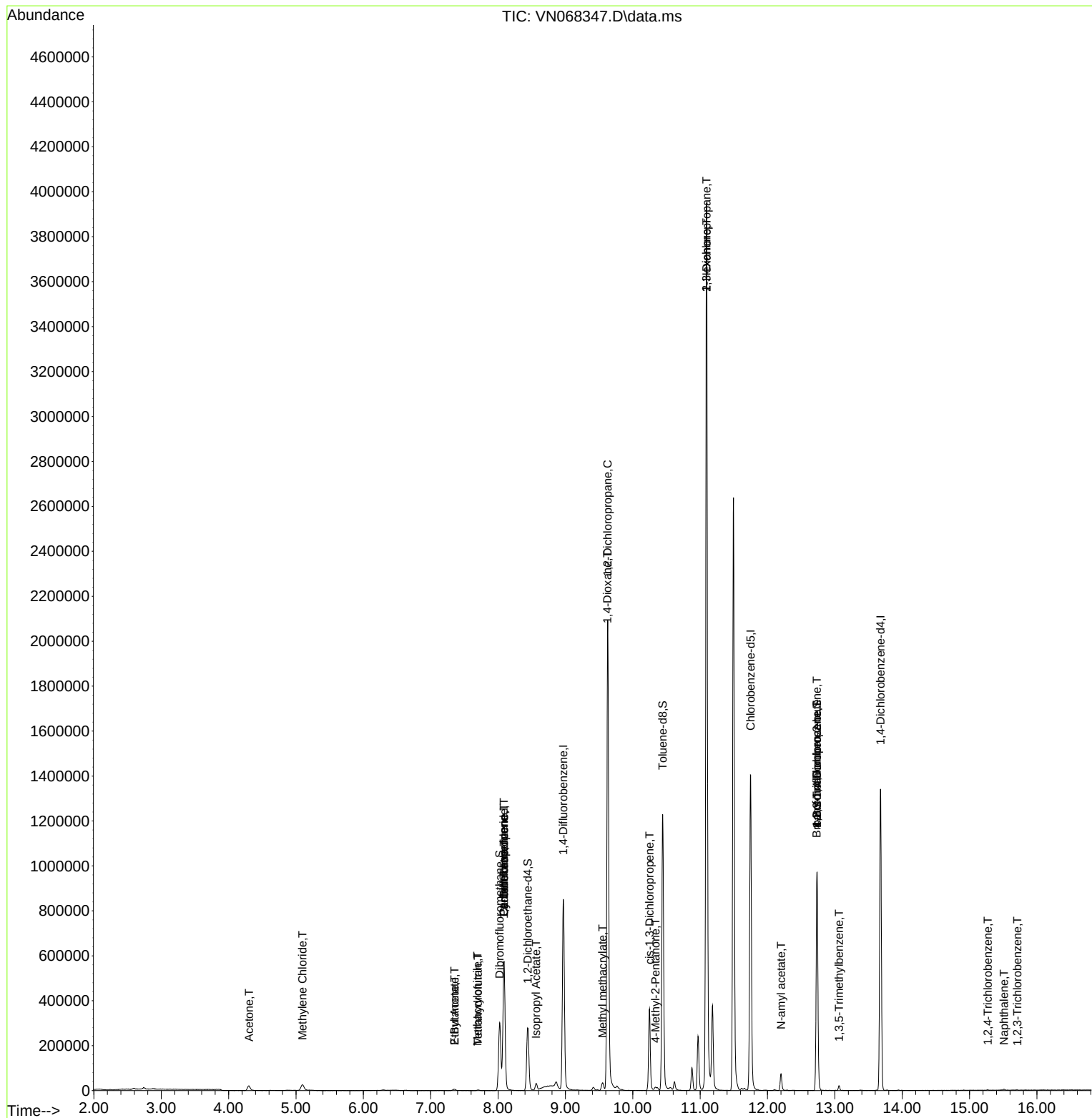
Internal Standards						
1) Pentafluorobenzene	8.088	168	471779	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.968	114	820738	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	921166	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	397451	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	244917	48.621	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.240%		
35) Dibromofluoromethane	8.024	113	223548	43.384	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	86.760%		
50) Toluene-d8	10.443	98	906674	46.179	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	92.360%		
62) 4-Bromofluorobenzene	12.734	95	333425	51.013	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	102.020%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.861	94	273	Below Cal	#	60
6) Chloroethane	3.221	64	52	Below Cal	#	44
13) Acrolein	3.762	56	26	Below Cal	#	1
16) Acetone	4.304	43	39418	26.801	ug/l	92
18) Methyl Acetate	4.857	43	1508	Below Cal		95
20) Methylene Chloride	5.095	84	22563	3.570	ug/l	# 81
25) 2-Butanone	7.354	43	9433	4.116	ug/l	# 80
29) Tetrahydrofuran	7.702	42	1833	1.250	ug/l	94
31) Cyclohexane	8.088	56	8615	1.298	ug/l	# 1
36) 1,1-Dichloropropene	8.086	75	30813	4.593	ug/l	# 53
37) Ethyl Acetate	7.354	43	9433	1.650	ug/l	# 69
38) Carbon Tetrachloride	8.088	117	45107	5.829	ug/l	# 17
41) Methacrylonitrile	7.694	41	648	0.248	ug/l	# 23
43) Isopropyl Acetate	8.566	43	35517	3.879	ug/l	# 92
45) 1,2-Dichloropropane	9.628	63	2673	0.555	ug/l	# 44
48) Methyl methacrylate	9.553	41	8263	2.166	ug/l	# 12
49) 1,4-Dioxane	9.623	88	269	2.917	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.339	43	6412	1.140	ug/l	# 61
54) cis-1,3-Dichloropropene	10.247	75	70824	9.115	ug/l	# 54
57) 1,3-Dichloropropane	11.095	76	46049	5.359	ug/l	# 43
59) 2-Hexanone	11.095	43	560241	143.461	ug/l	# 57
71) Bromoform	12.731	173	2105	0.369	ug/l	# 1
74) N-amyl acetate	12.200	43	21573	2.931	ug/l	# 57
76) 1,2,3-Trichloropropane	12.734	75	168718	25.540	ug/l	# 100
80) 1,3,5-Trimethylbenzene	13.063	105	11564	0.506	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.734	75	168718	83.673	ug/l	# 6
93) 1,2,4-Trichlorobenzene	15.271	180	853	2.807	ug/l	# 79
95) Naphthalene	15.509	128	5031	3.645	ug/l	# 92
96) 1,2,3-Trichlorobenzene	15.711	180	933	2.971	ug/l	# 67

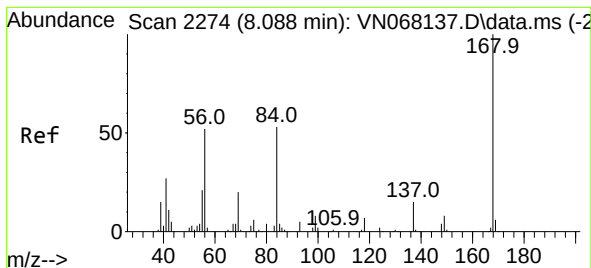
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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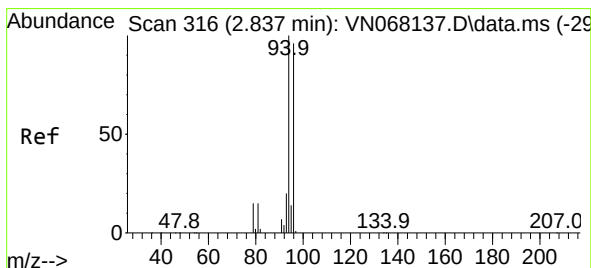
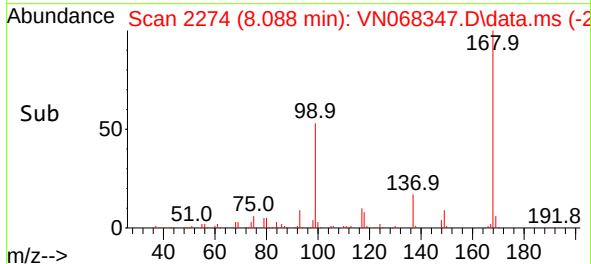
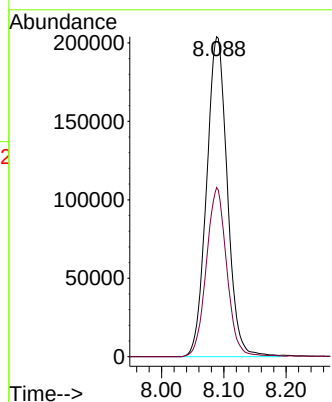
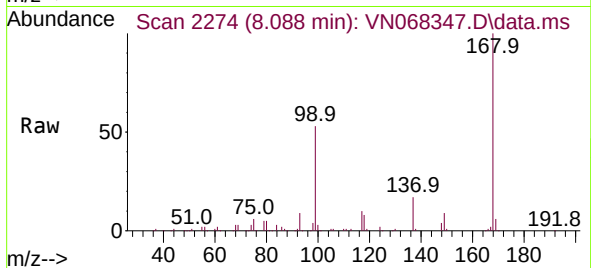




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

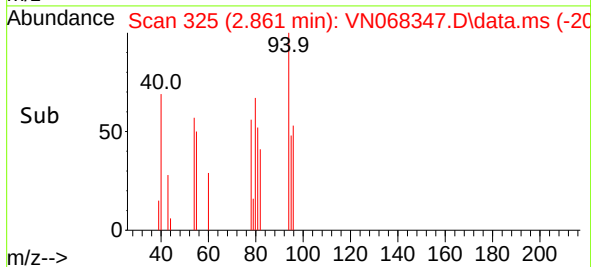
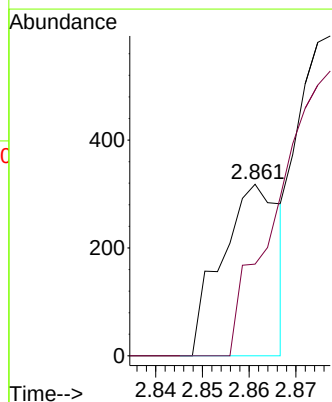
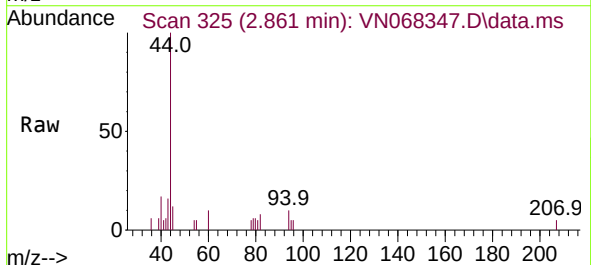
Instrument :
MSVOA_N
ClientSampled :

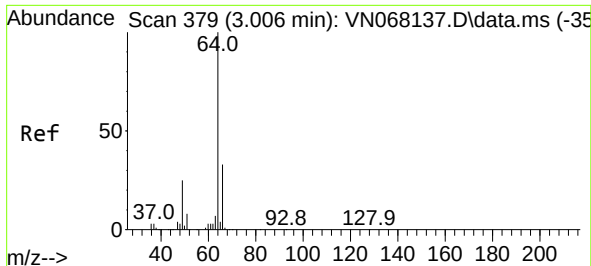
Tgt Ion:168 Resp: 471779
Ion Ratio Lower Upper
168 100
99 52.8 62.9 94.3#



#5
Bromomethane
Concen: Below Cal
RT: 2.861 min Scan# 325
Delta R.T. 0.024 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 94 Resp: 273
Ion Ratio Lower Upper
94 100
96 53.5 73.7 110.5#

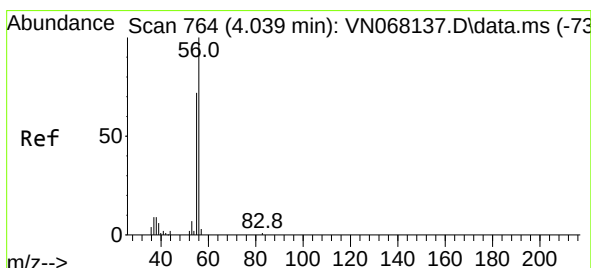
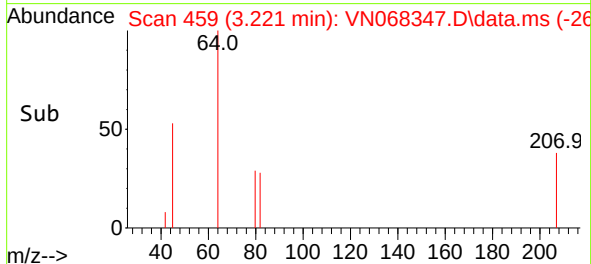
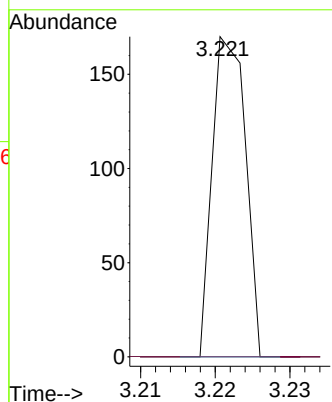
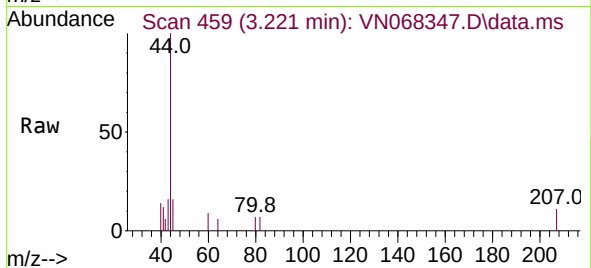




#6
Chloroethane
Concen: Below Cal
RT: 3.221 min Scan# 459
Delta R.T. 0.215 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

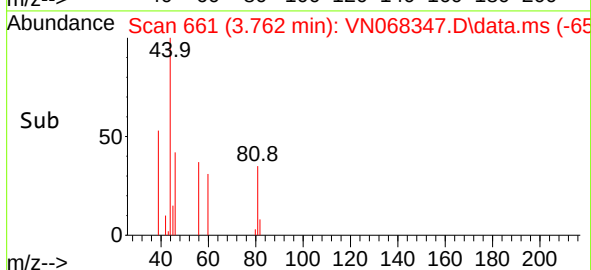
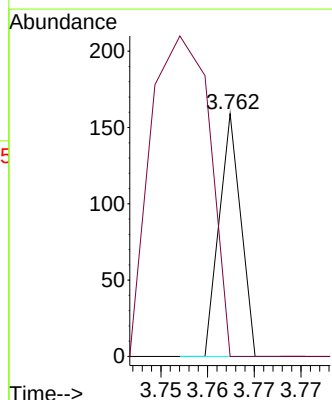
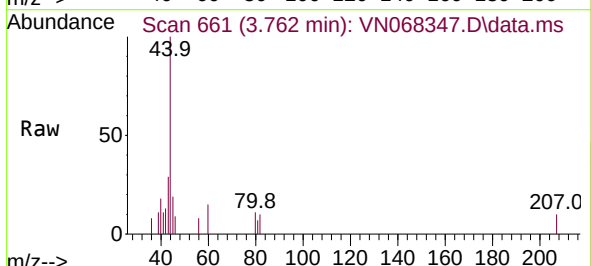
Instrument :
MSVOA_N
ClientSampleId :

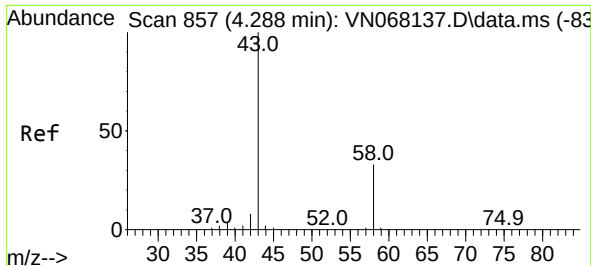
Tgt Ion: 64 Resp: 52
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#13
Acrolein
Concen: Below Cal
RT: 3.762 min Scan# 661
Delta R.T. -0.277 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 353.8 57.4 86.0#

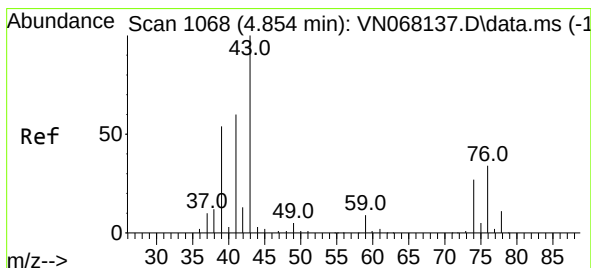
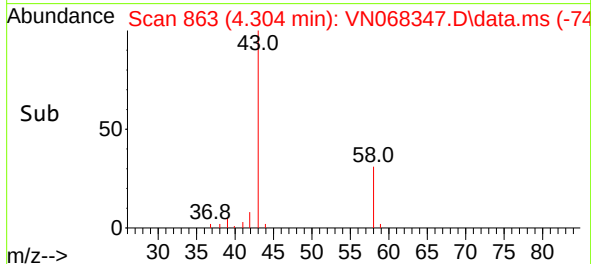
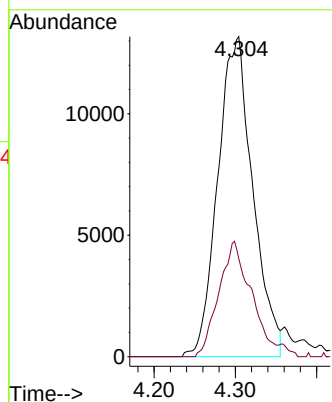
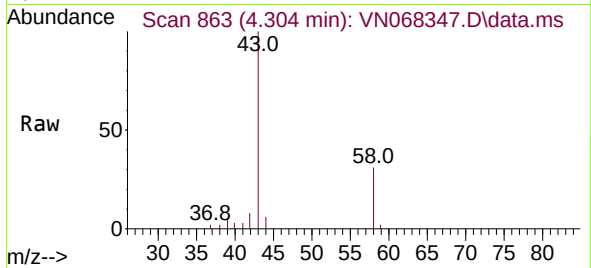




#16
Acetone
Concen: 26.801 ug/l
RT: 4.304 min Scan# 863
Delta R.T. 0.016 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

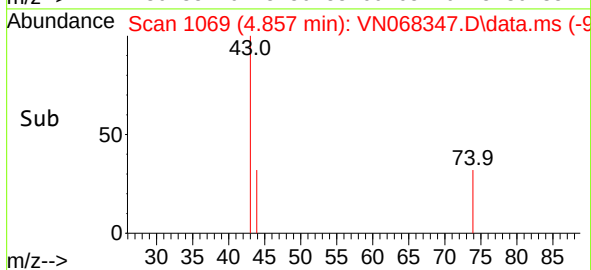
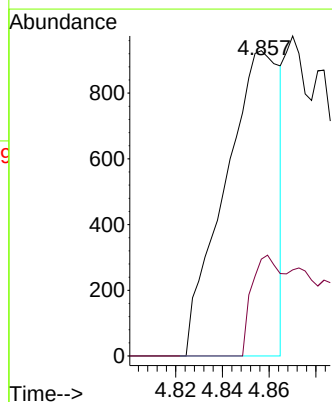
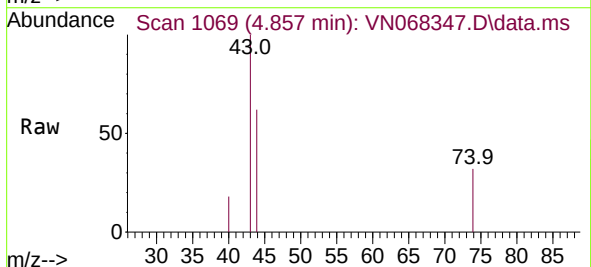
Instrument :
MSVOA_N
ClientSampled :

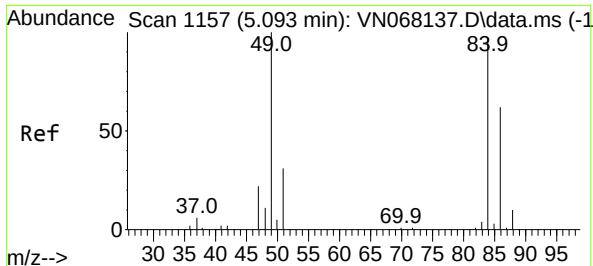
Tgt Ion: 43 Resp: 39418
Ion Ratio Lower Upper
43 100
58 30.7 21.2 31.8



#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 1069
Delta R.T. 0.003 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

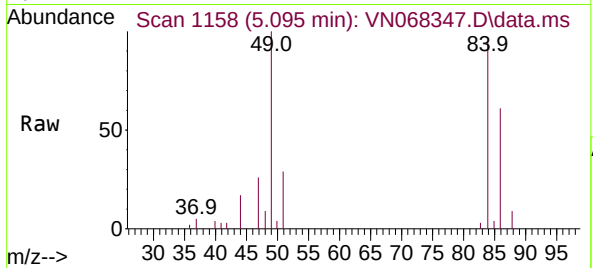
Tgt Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
74 19.3 17.4 26.0



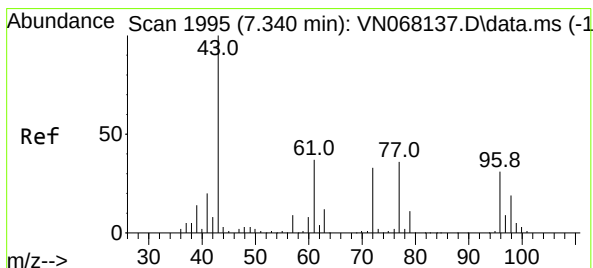
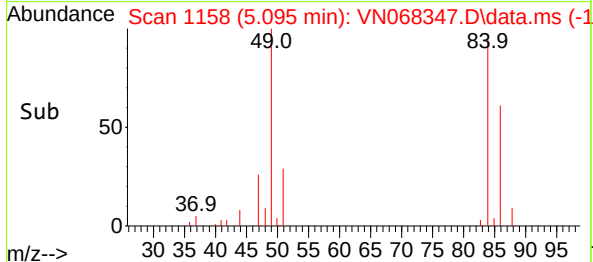
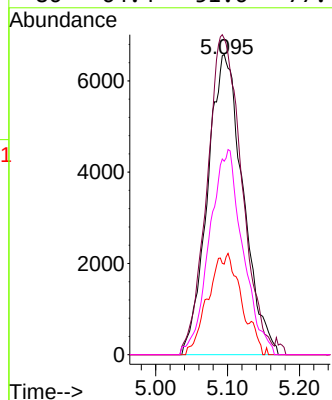


#20
Methylene Chloride
Concen: 3.570 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. 0.002 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Instrument :
MSVOA_N
ClientSampled :

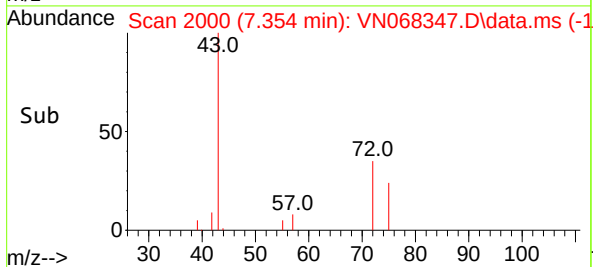
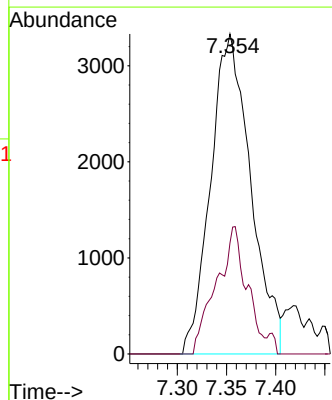
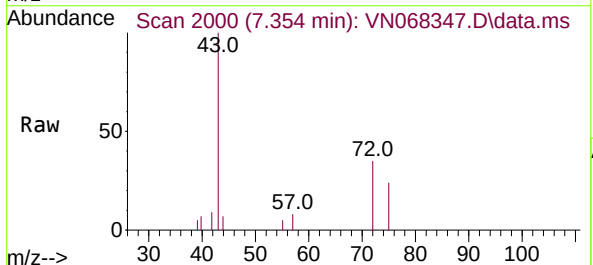


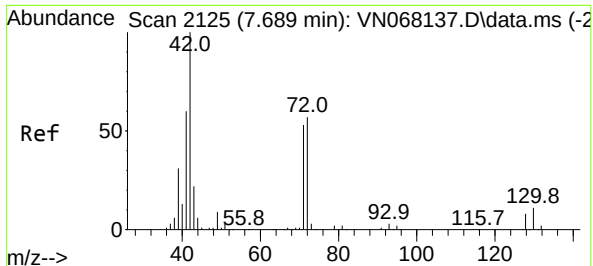
Tgt Ion:	84	Resp:	22563
Ion	Ratio	Lower	Upper
84	100		
49	105.3	110.9	166.3#
51	30.2	32.6	49.0#
86	64.4	51.6	77.4



#25
2-Butanone
Concen: 4.116 ug/l
RT: 7.354 min Scan# 2000
Delta R.T. 0.014 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion:	43	Resp:	9433
Ion	Ratio	Lower	Upper
43	100		
72	34.6	19.7	29.5#





#29

Tetrahydrofuran

Concen: 1.250 ug/l

RT: 7.702 min Scan# 2130

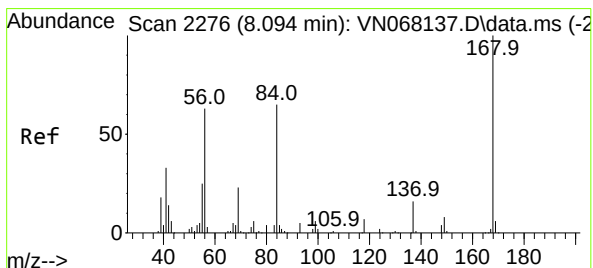
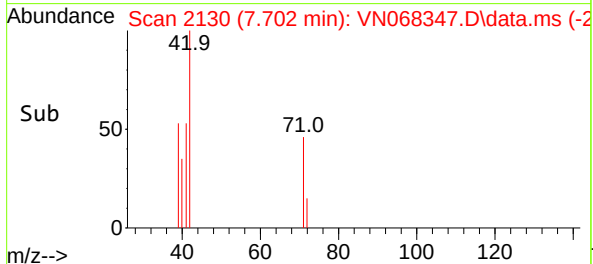
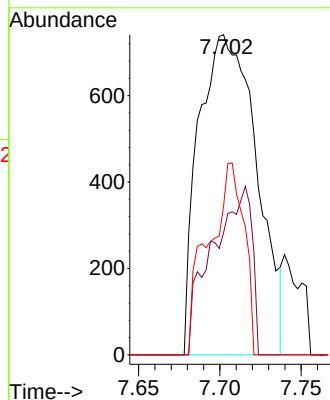
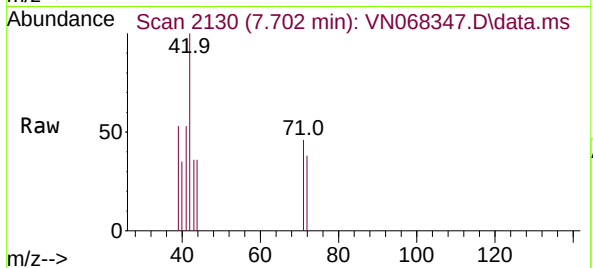
Delta R.T. 0.013 min

Lab File: VN068347.D

Acq: 27 Aug 2021 16:20

Tgt Ion: 42 Resp: 1833

Ion	Ratio	Lower	Upper
42	100		
72	36.0	32.8	49.2
71	37.0	31.2	46.8



#31

Cyclohexane

Concen: 1.298 ug/l

RT: 8.088 min Scan# 2274

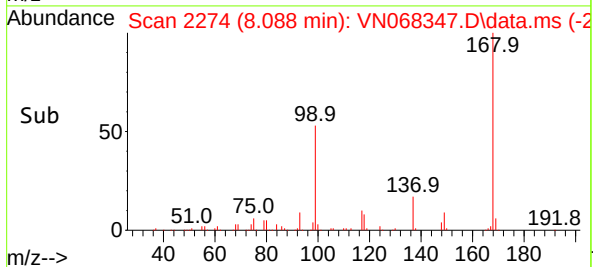
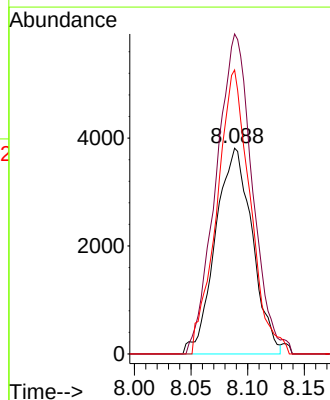
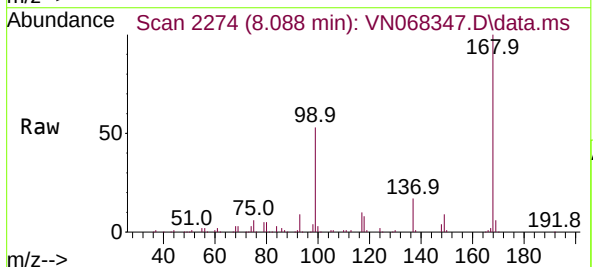
Delta R.T. -0.006 min

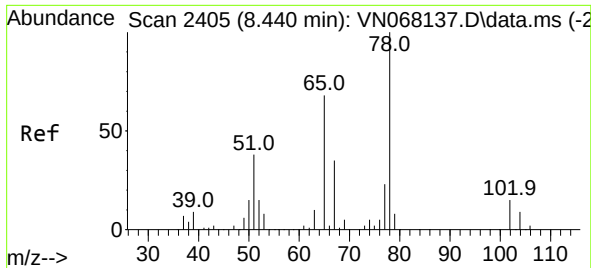
Lab File: VN068347.D

Acq: 27 Aug 2021 16:20

Tgt Ion: 56 Resp: 8615

Ion	Ratio	Lower	Upper
56	100		
69	155.5	27.3	40.9#
84	138.0	64.9	97.3#

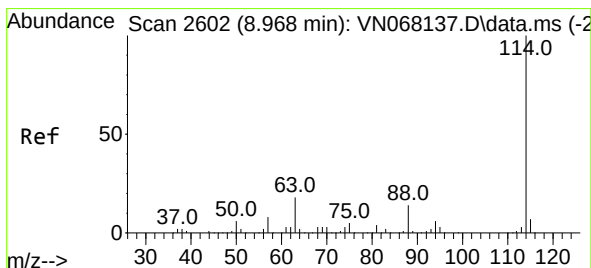
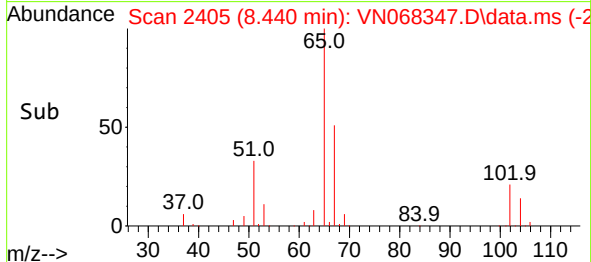
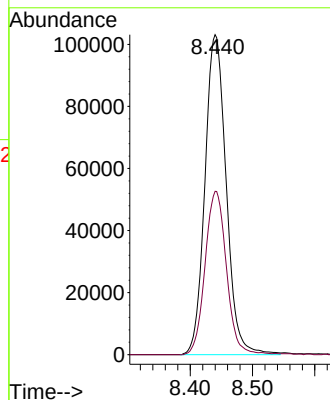
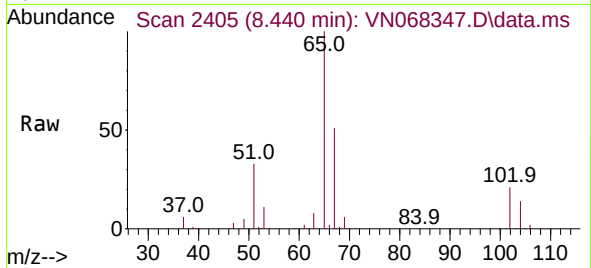




#33
 1,2-Dichloroethane-d4
 Concen: 48.621 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN068347.D
 Acq: 27 Aug 2021 16:20

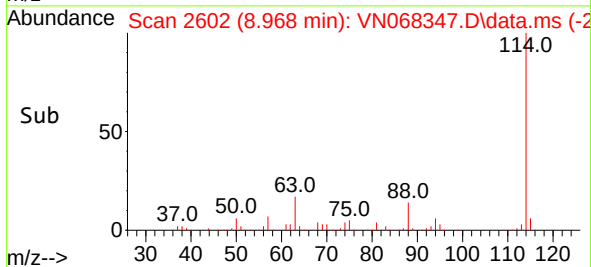
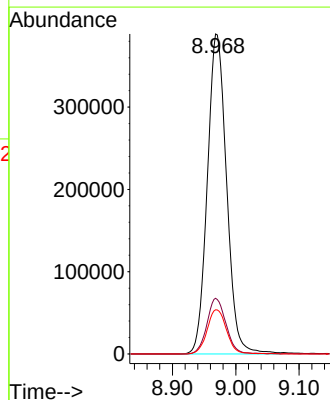
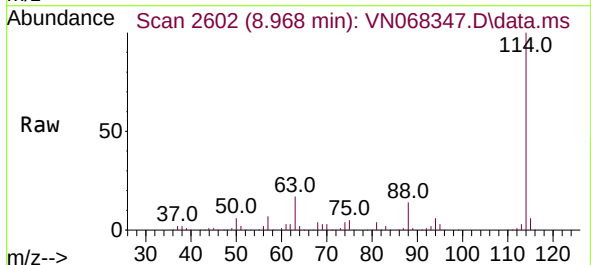
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 MSVOA_N
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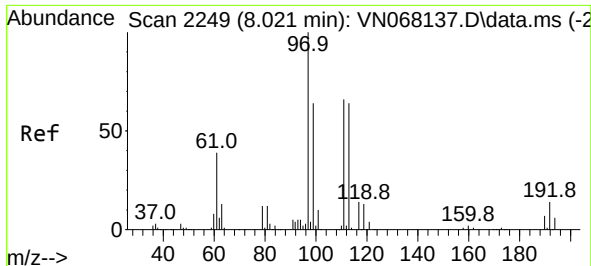
Tgt Ion: 65 Resp: 244917
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. 0.000 min
 Lab File: VN068347.D
 Acq: 27 Aug 2021 16:20

Tgt Ion: 114 Resp: 820738
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 49.0
 88 13.8 0.0 36.6

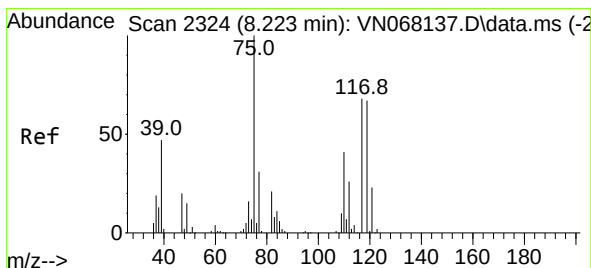
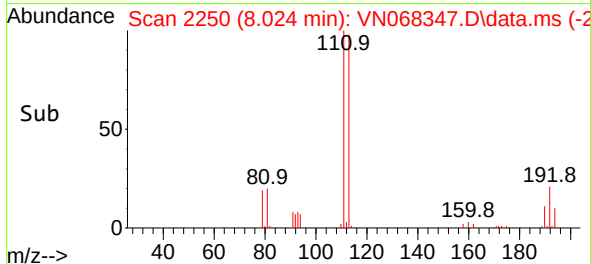
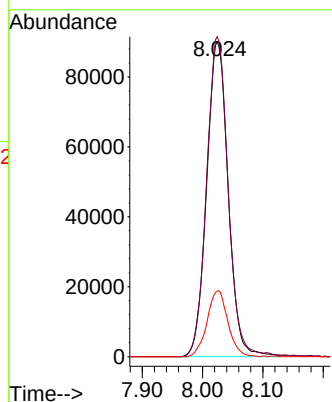
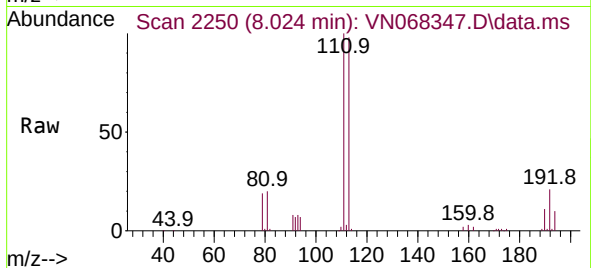




#35
Dibromofluoromethane
Concen: 43.384 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

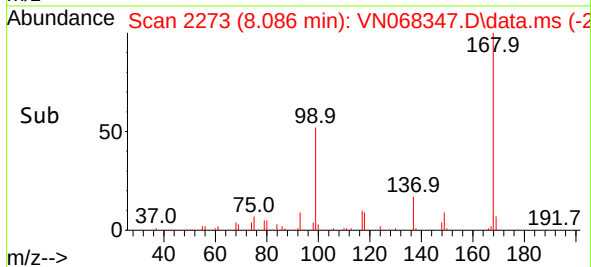
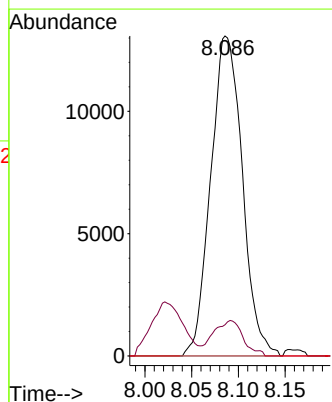
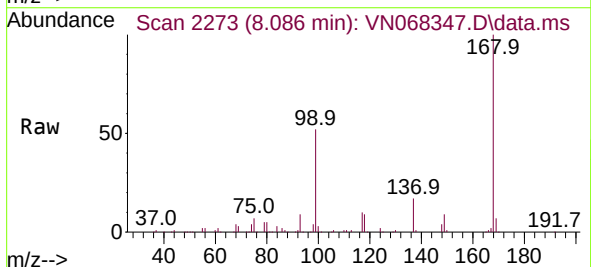
Instrument :
MSVOA_N
ClientSampleId :

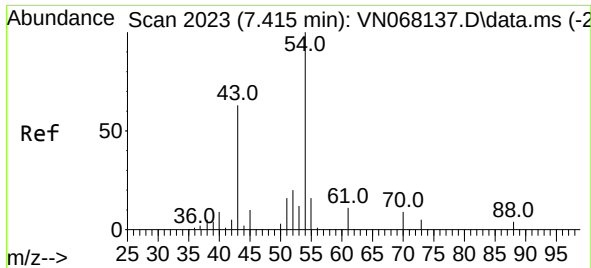
Tgt Ion:113 Resp: 223548
Ion Ratio Lower Upper
113 100
111 101.3 83.8 125.8
192 20.3 13.4 20.0#



#36
1,1-Dichloropropene
Concen: 4.593 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 75 Resp: 30813
Ion Ratio Lower Upper
75 100
110 10.3 15.7 47.0#
77 0.0 24.6 37.0#

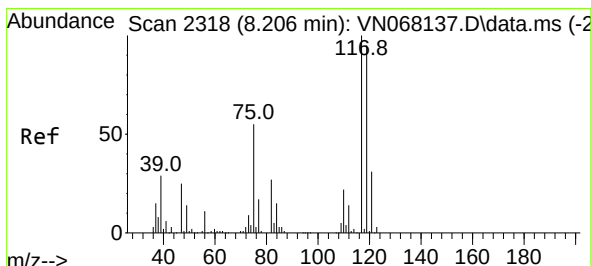
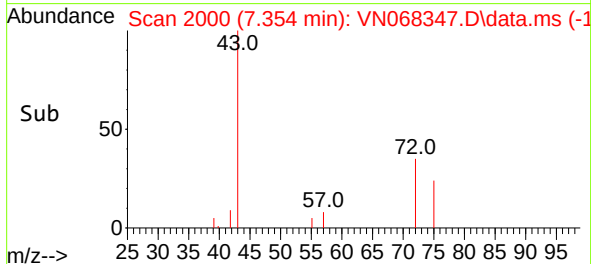
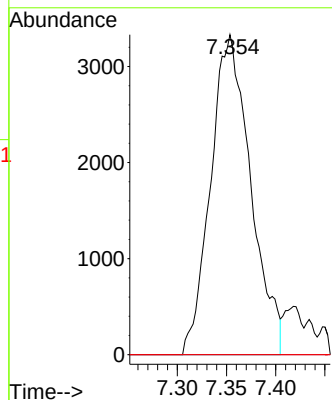
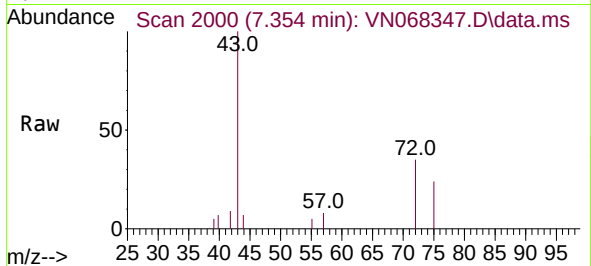




#37
Ethyl Acetate
Concen: 1.650 ug/l
RT: 7.354 min Scan# 2000
Delta R.T. -0.061 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

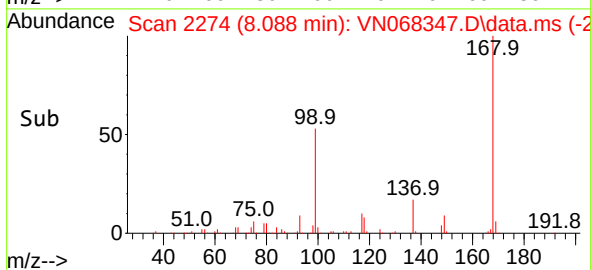
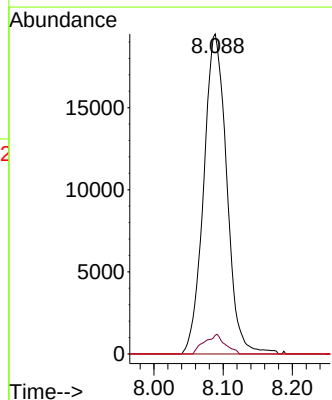
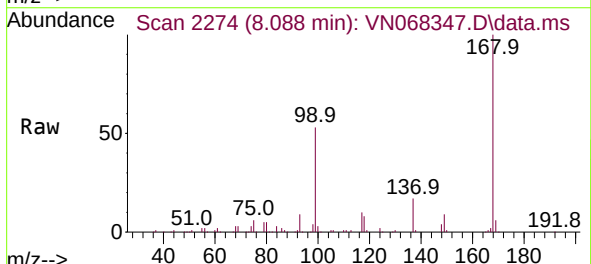
Instrument :
MSVOA_N
ClientSampled :

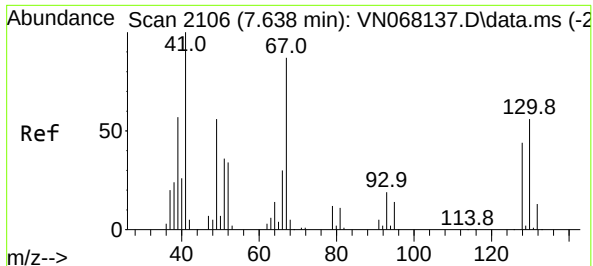
Tgt Ion: 43 Resp: 9433
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.829 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 117 Resp: 45107
Ion Ratio Lower Upper
117 100
119 5.8 75.4 113.2#
121 0.0 23.5 35.3#

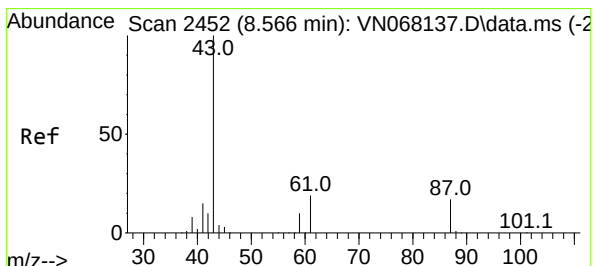
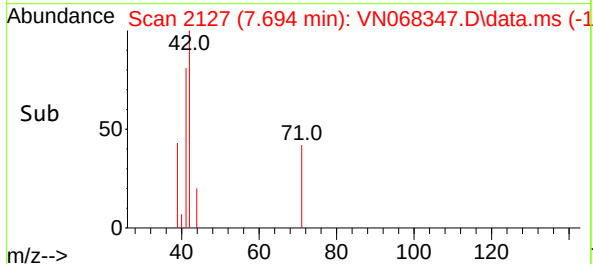
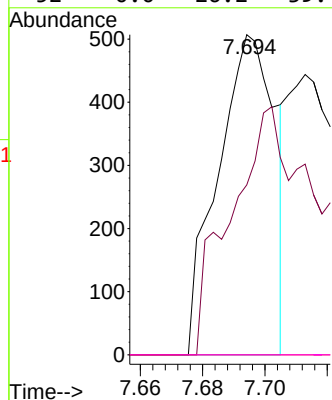
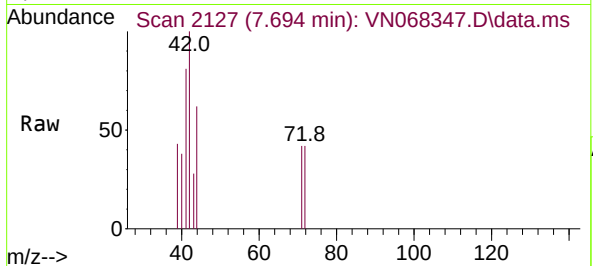




#41
Methacrylonitrile
Concen: 0.248 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.056 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

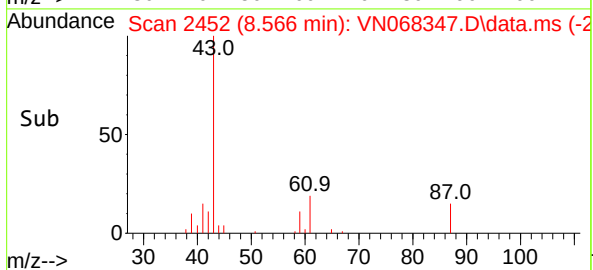
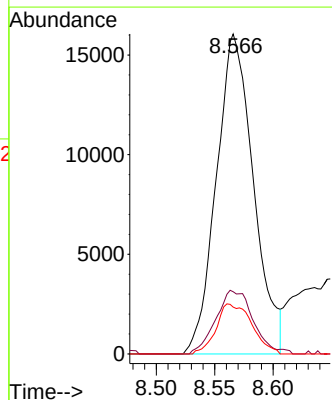
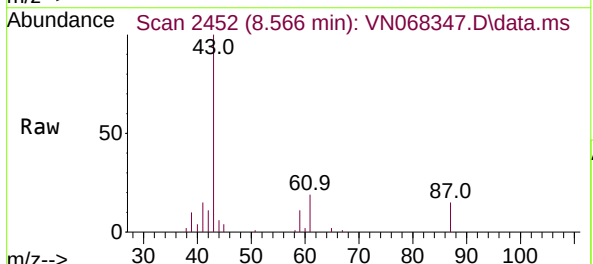
Instrument :
MSVOA_N
ClientSampled :

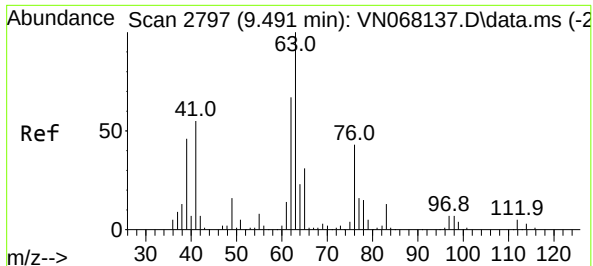
Tgt Ion: 41	Resp: 648
Ion Ratio	Lower Upper
41 100	
39 116.0	47.6 71.4#
67 0.0	57.7 86.5#
52 0.0	26.2 39.4#



#43
Isopropyl Acetate
Concen: 3.879 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. -0.000 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 43	Resp: 35517		
Ion Ratio	Lower	Upper	
43 100			
61 20.1	19.0	28.4	
87 15.1	9.5	14.3#	

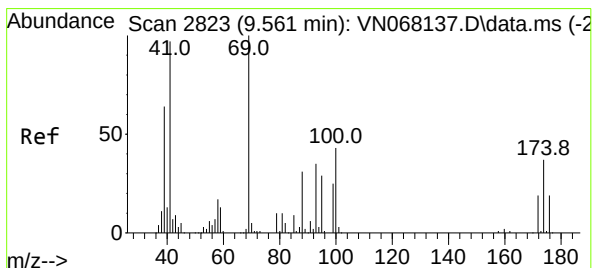
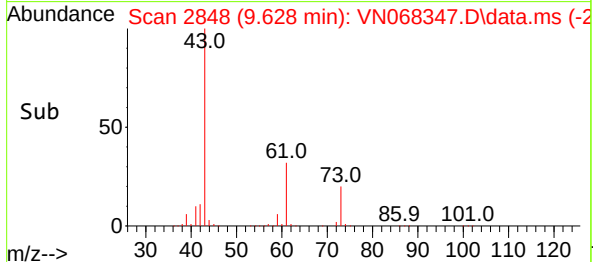
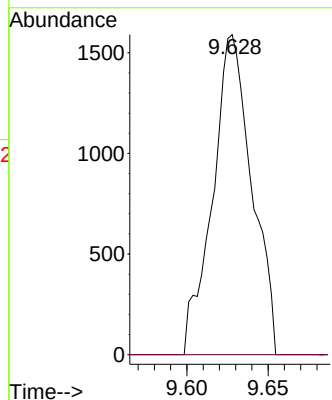
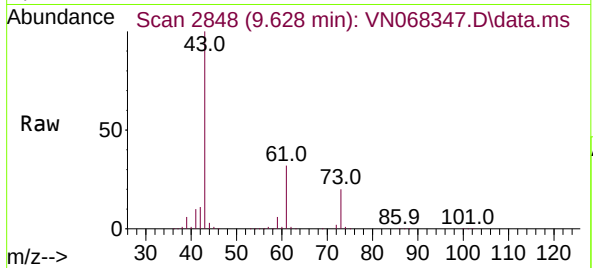




#45
1,2-Dichloropropane
Concen: 0.555 ug/l
RT: 9.628 min Scan# 2848
Delta R.T. 0.137 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

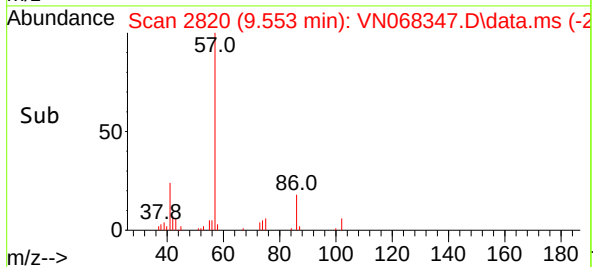
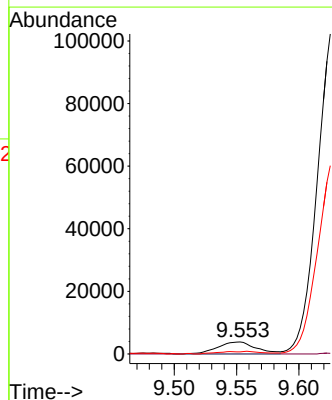
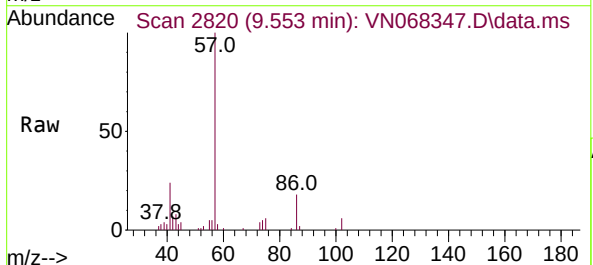
Instrument :
MSVOA_N
ClientSampled :

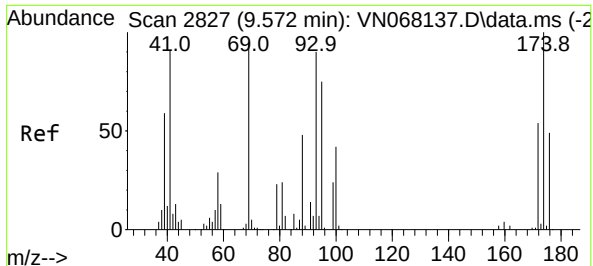
Tgt Ion: 63 Resp: 2673
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#



#48
Methyl methacrylate
Concen: 2.166 ug/l
RT: 9.553 min Scan# 2820
Delta R.T. -0.008 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 41 Resp: 8263
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#

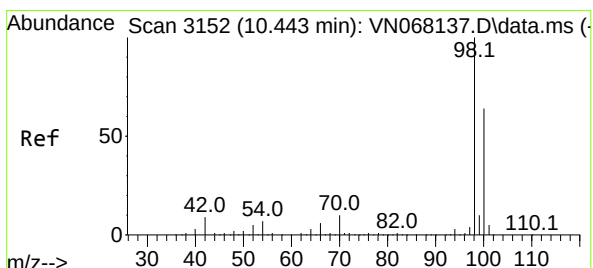
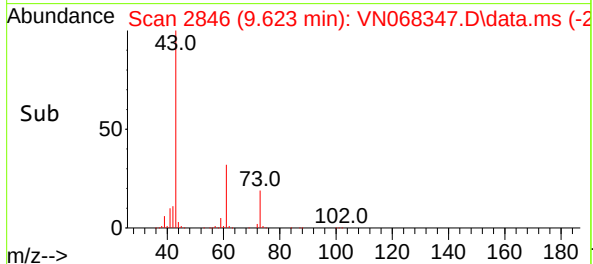
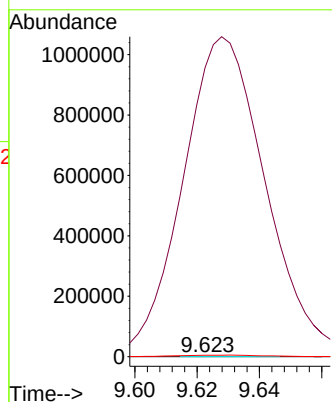
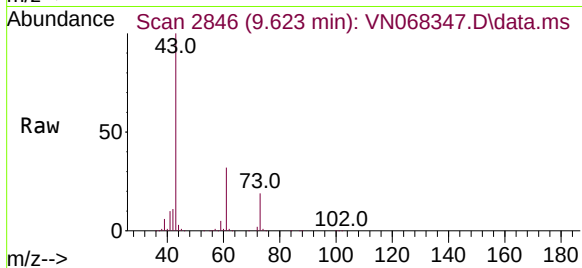




#49
1,4-Dioxane
Concen: 2.917 ug/l
RT: 9.623 min Scan# 2846
Delta R.T. 0.051 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

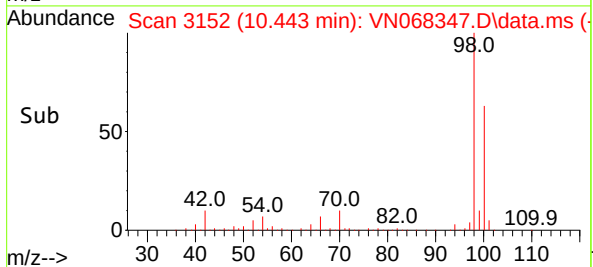
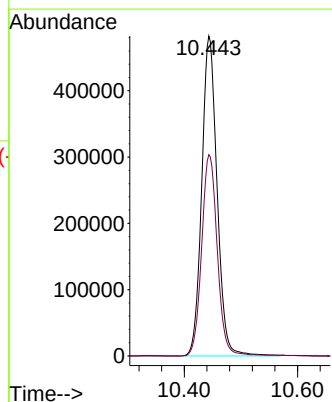
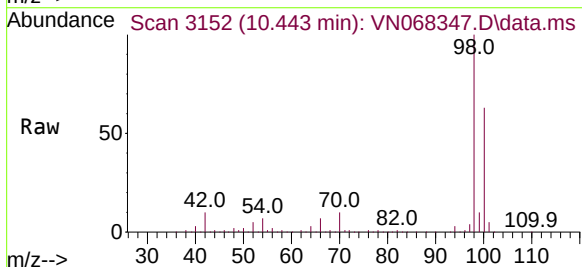
Instrument :
MSVOA_N
ClientSampled :

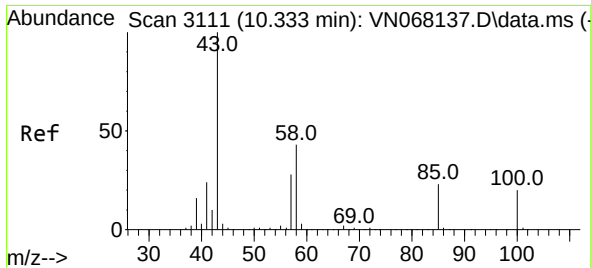
Tgt Ion: 88 Resp: 269
Ion Ratio Lower Upper
88 100
43 751272.9 28.8 43.2#
58 3718.6 60.4 90.6#



#50
Toluene-d8
Concen: 46.179 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 98 Resp: 906674
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5

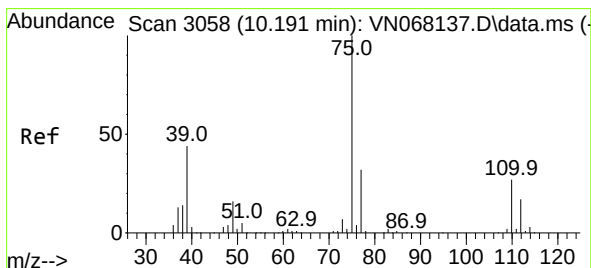
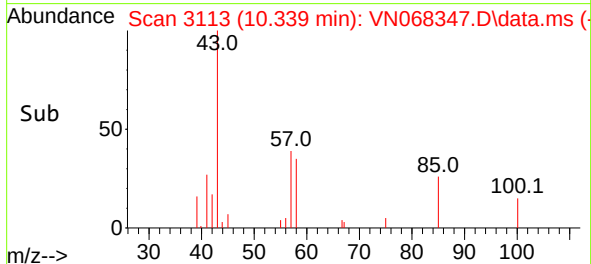
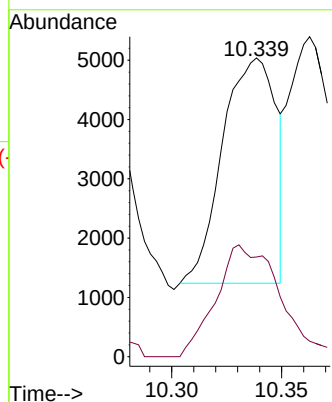
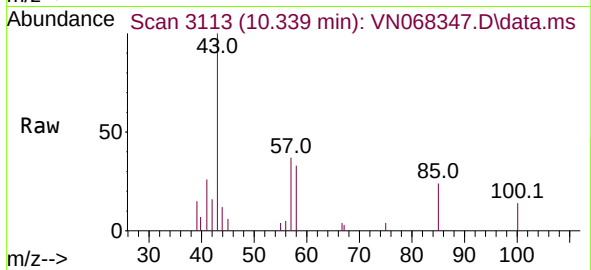




#51
4-Methyl-2-Pentanone
Concen: 1.140 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.006 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

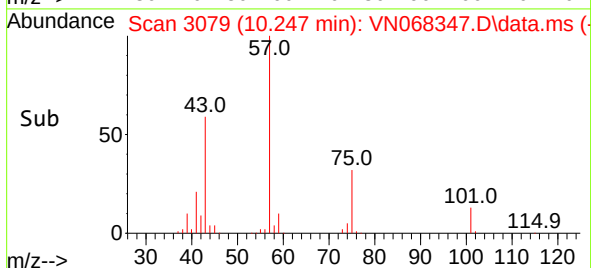
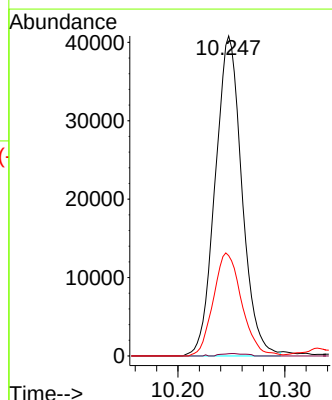
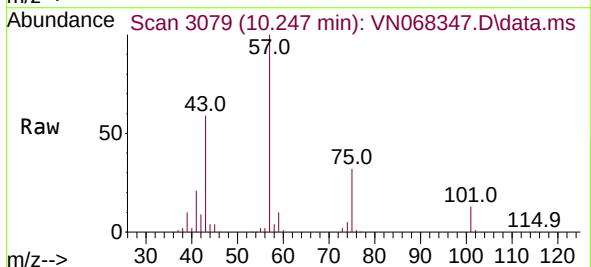
Instrument :
MSVOA_N
ClientSampled :

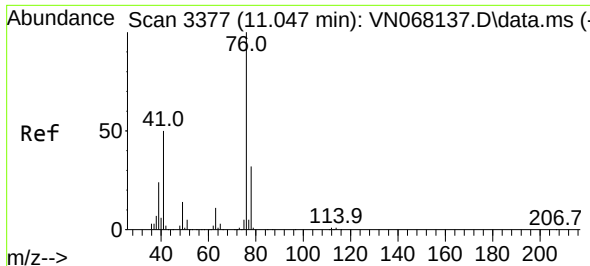
Tgt Ion: 43 Resp: 6412
Ion Ratio Lower Upper
43 100
58 58.8 28.6 43.0#



#54
cis-1,3-Dichloropropene
Concen: 9.115 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 75 Resp: 70824
Ion Ratio Lower Upper
75 100
77 0.7 24.6 37.0#
39 31.4 50.7 76.1#

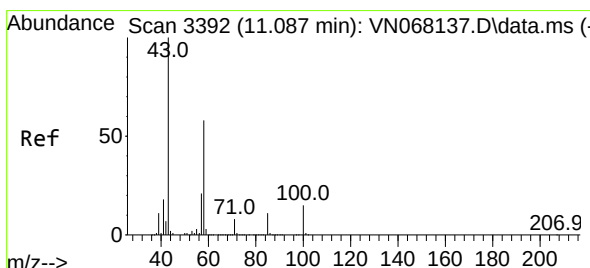
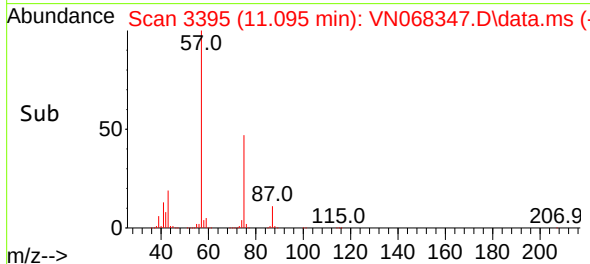
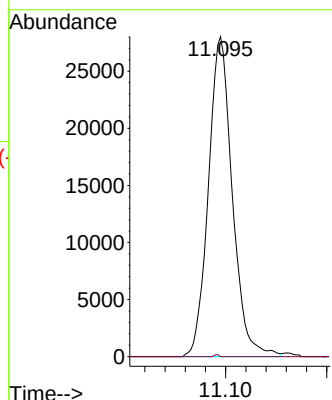
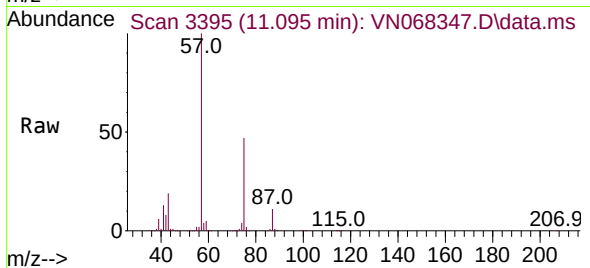




#57
1,3-Dichloropropane
Concen: 5.359 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

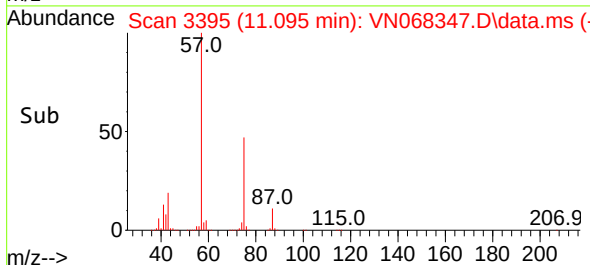
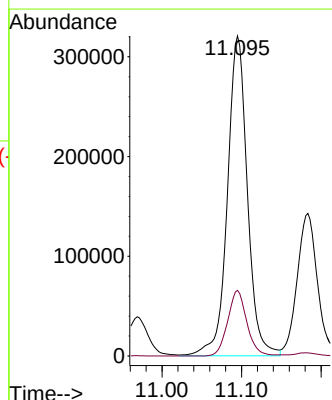
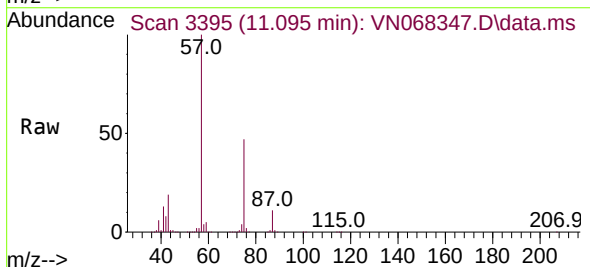
Instrument :
MSVOA_N
ClientSampled :

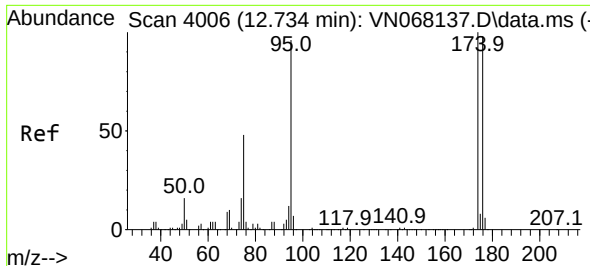
Tgt Ion: 76 Resp: 46049
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#



#59
2-Hexanone
Concen: 143.461 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 43 Resp: 560241
Ion Ratio Lower Upper
43 100
58 19.6 24.7 74.1#

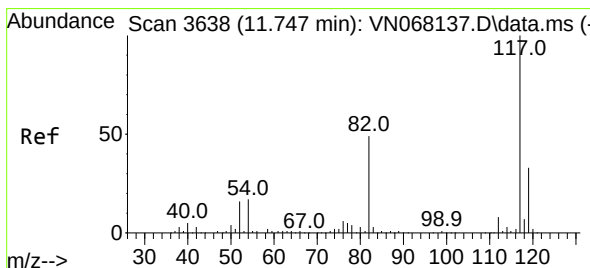
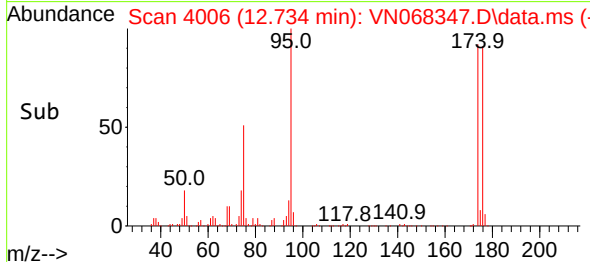
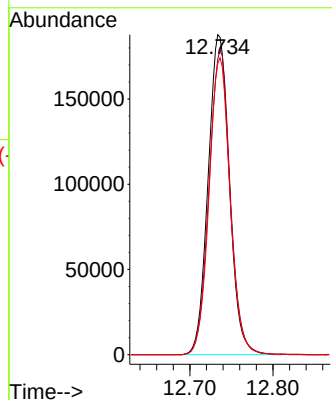
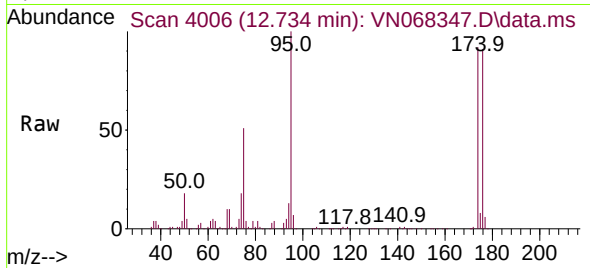




#62
4-Bromofluorobenzene
Concen: 51.013 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

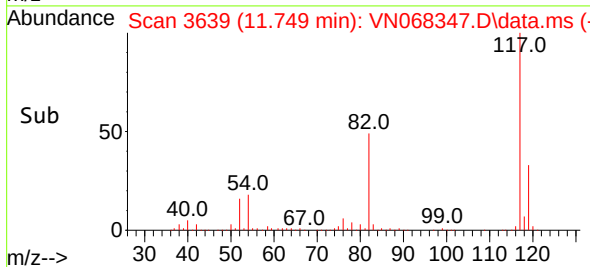
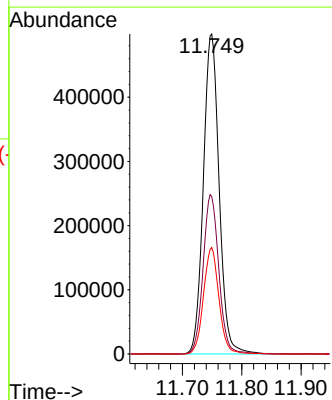
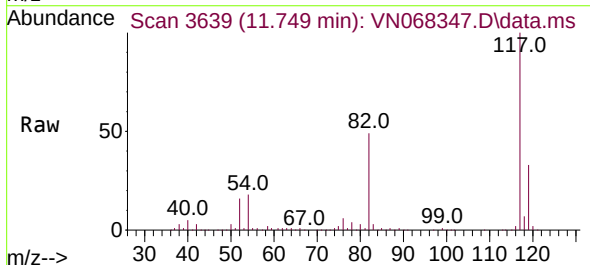
Instrument :
MSVOA_N
ClientSampleId :

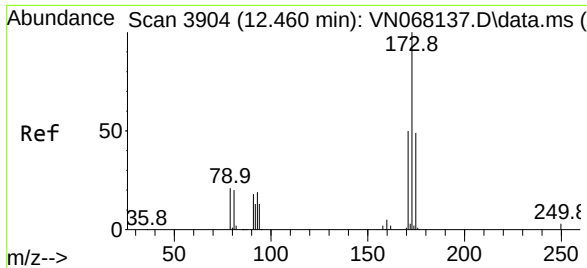
Tgt Ion: 95 Resp: 333425
Ion Ratio Lower Upper
95 100
174 95.3 0.0 122.0
176 91.9 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.002 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 117 Resp: 921166
Ion Ratio Lower Upper
117 100
82 49.2 53.1 79.7#
119 33.3 25.5 38.3

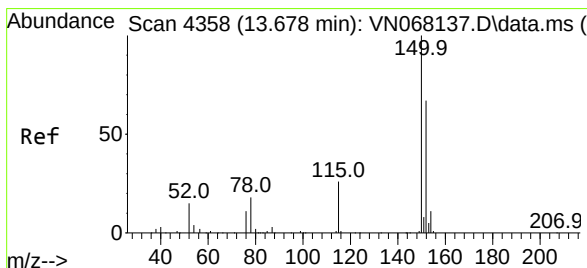
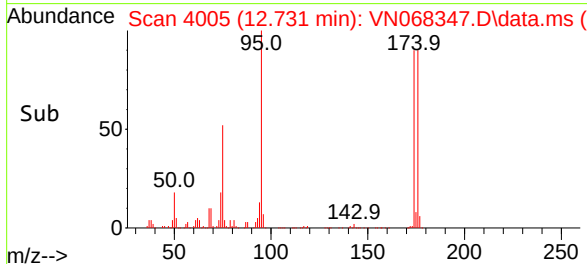
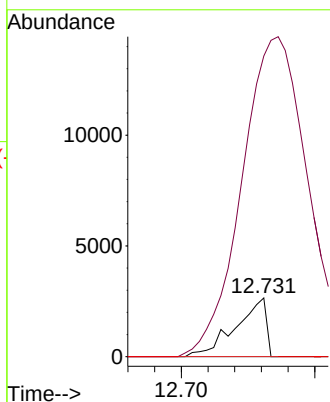
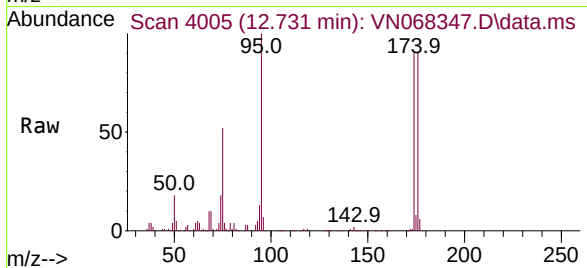




#71
Bromoform
Concen: 0.369 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

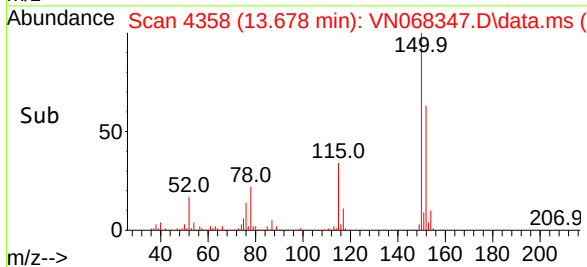
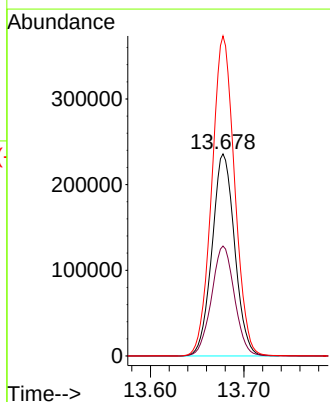
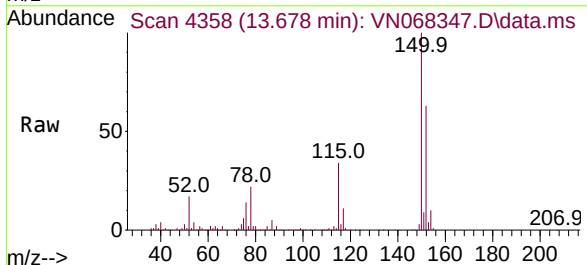
Instrument :
MSVOA_N
ClientSampled :

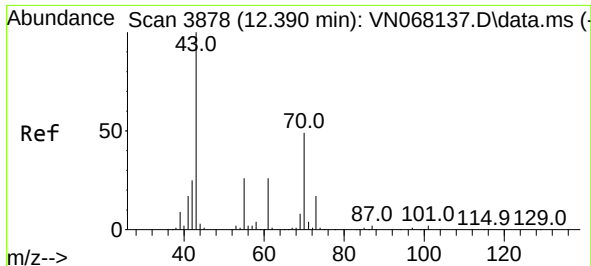
Tgt Ion:173 Resp: 2105
Ion Ratio Lower Upper
173 100
175 1080.4 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. -0.000 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

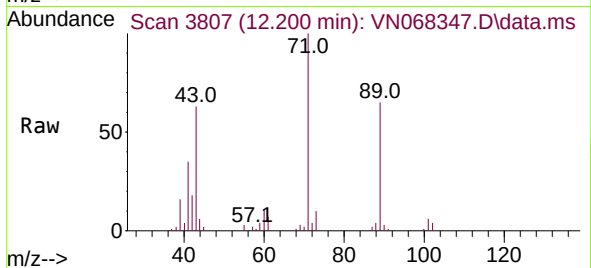
Tgt Ion:152 Resp: 397451
Ion Ratio Lower Upper
152 100
115 55.2 36.1 108.5
150 159.9 0.0 351.8



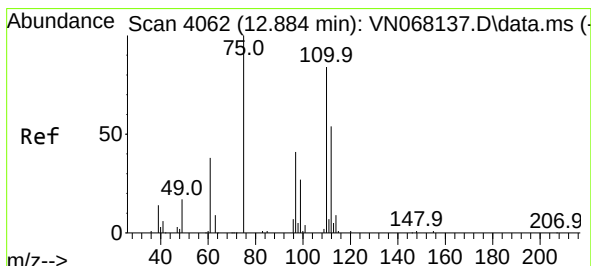
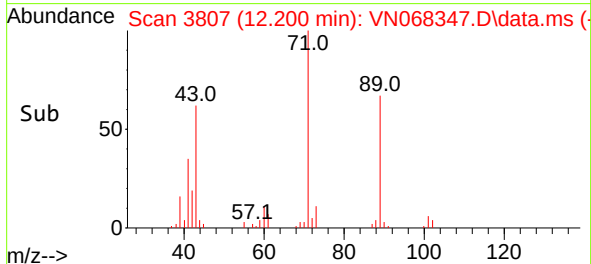
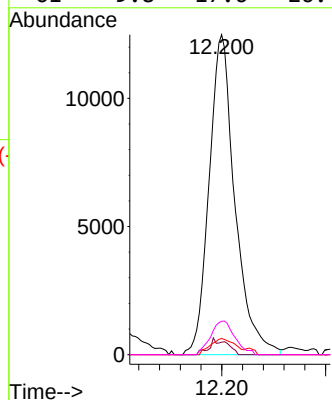


#74
N-amy1 acetate
Concen: 2.931 ug/l
RT: 12.200 min Scan# 3807
Delta R.T. -0.190 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Instrument :
MSVOA_N
ClientSampled :

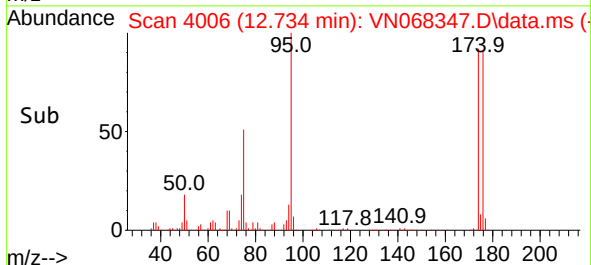
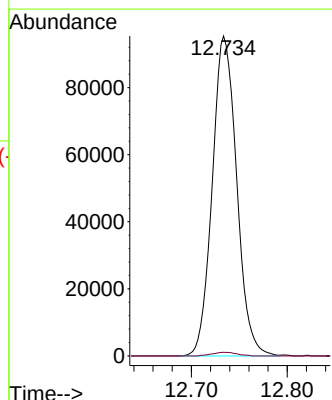
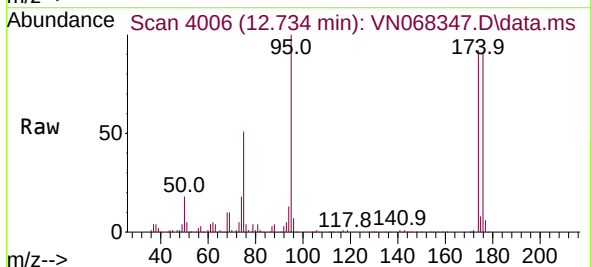


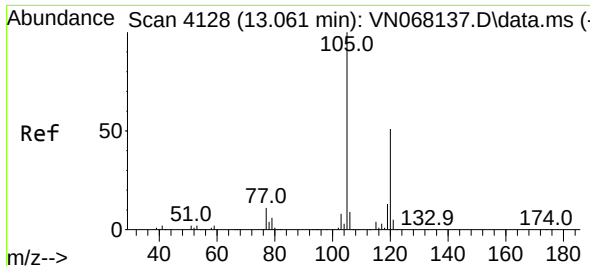
Tgt Ion:	43	Resp:	21573
Ion	Ratio	Lower	Upper
43	100		
70	1.9	29.4	44.2#
55	4.8	17.0	25.4#
61	9.8	17.6	26.4#



#76
1,2,3-Trichloropropane
Concen: 25.540 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion:	75	Resp:	168718
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#

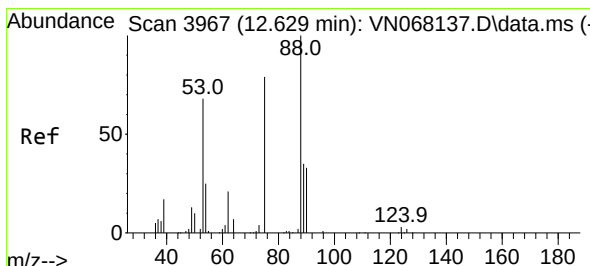
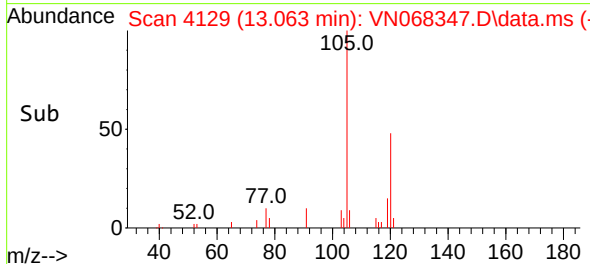
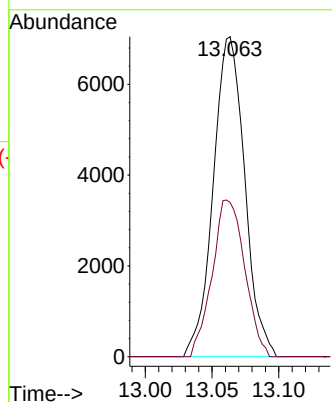
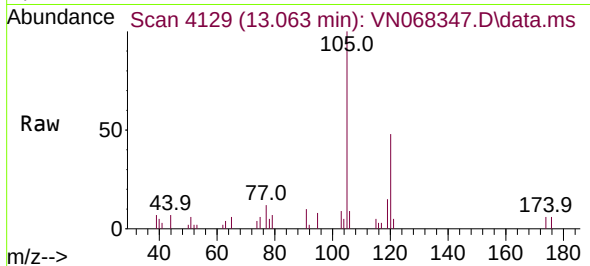




#80
1,3,5-Trimethylbenzene
Concen: 0.506 ug/l
RT: 13.063 min Scan# 4129
Delta R.T. 0.002 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

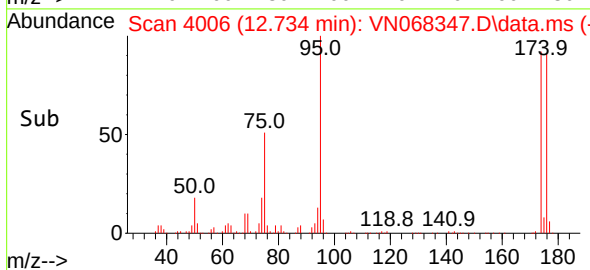
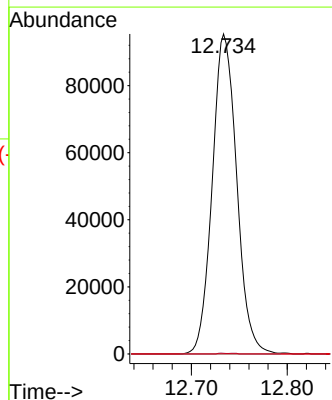
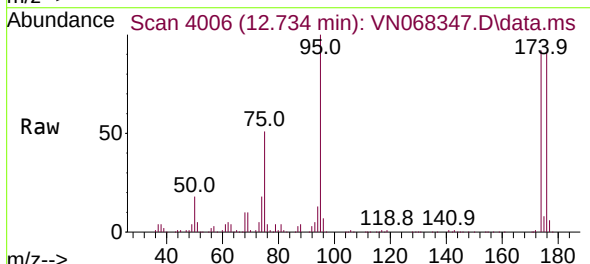
Instrument :
MSVOA_N
ClientSampled :

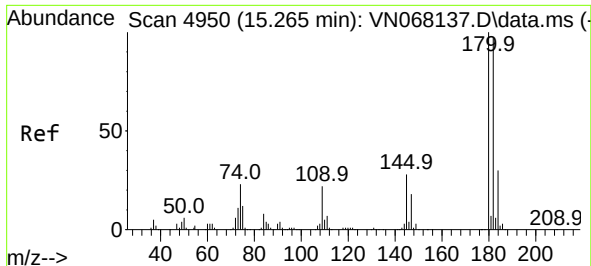
Tgt Ion:105 Resp: 11564
Ion Ratio Lower Upper
105 100
120 50.6 22.2 66.6



#81
trans-1,4-Dichloro-2-butene
Concen: 83.673 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

Tgt Ion: 75 Resp: 168718
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#

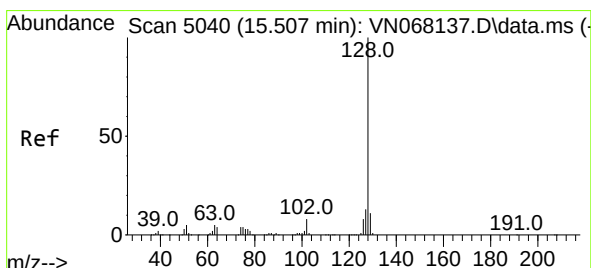
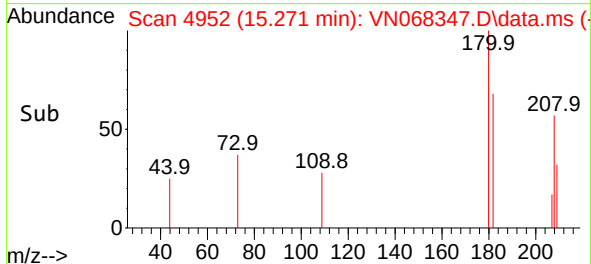
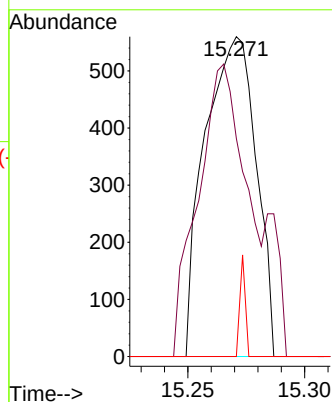
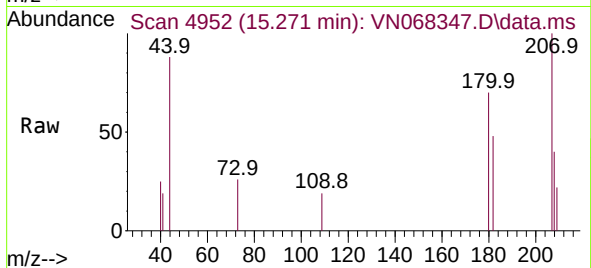




#93
1,2,4-Trichlorobenzene
Concen: 2.807 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

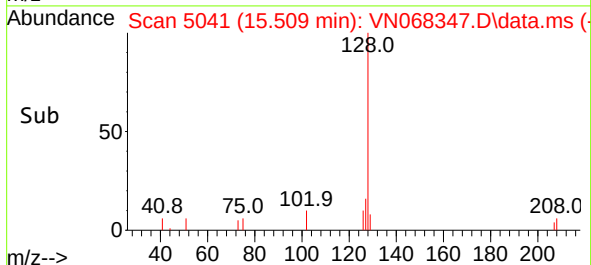
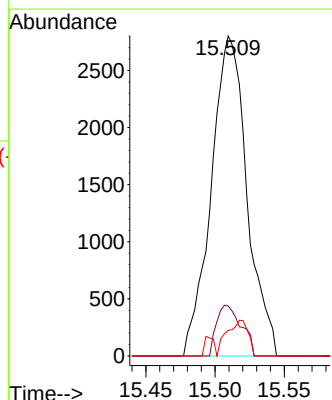
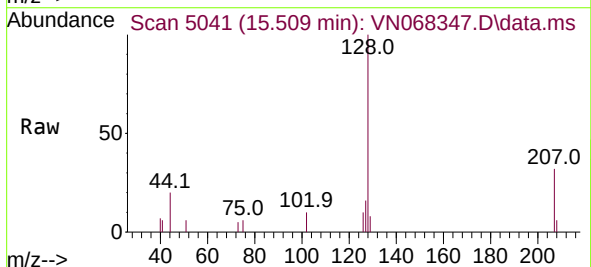
Instrument :
MSVOA_N
ClientSampled :

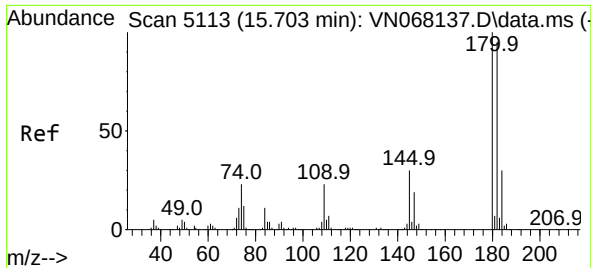
Tgt Ion:180 Resp: 853
Ion Ratio Lower Upper
180 100
182 85.7 47.5 142.5
145 3.4 17.2 51.6#



#95
Naphthalene
Concen: 3.645 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068347.D
Acq: 27 Aug 2021 16:20

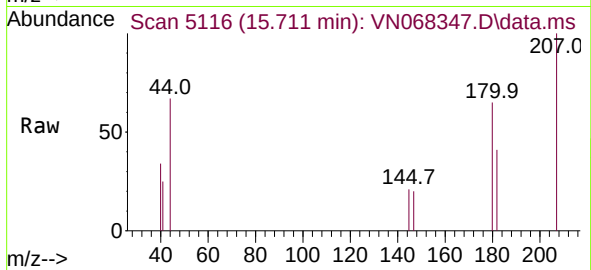
Tgt Ion:128 Resp: 5031
Ion Ratio Lower Upper
128 100
127 11.0 10.6 15.8
129 6.6 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.971 ug/l
 RT: 15.711 min Scan# 5116
 Delta R.T. 0.008 min
 Lab File: VN068347.D
 Acq: 27 Aug 2021 16:20

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 933
 Ion Ratio Lower Upper
 180 100
 182 63.2 47.8 143.3
 145 17.9 18.2 54.6#

