

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082621\
 Data File : VN068323.D
 Acq On : 26 Aug 2021 16:38
 Operator : JC/MD
 Sample : M3535-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WVLY-SOIL-82421

Quant Time: Aug 27 05:53:49 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)

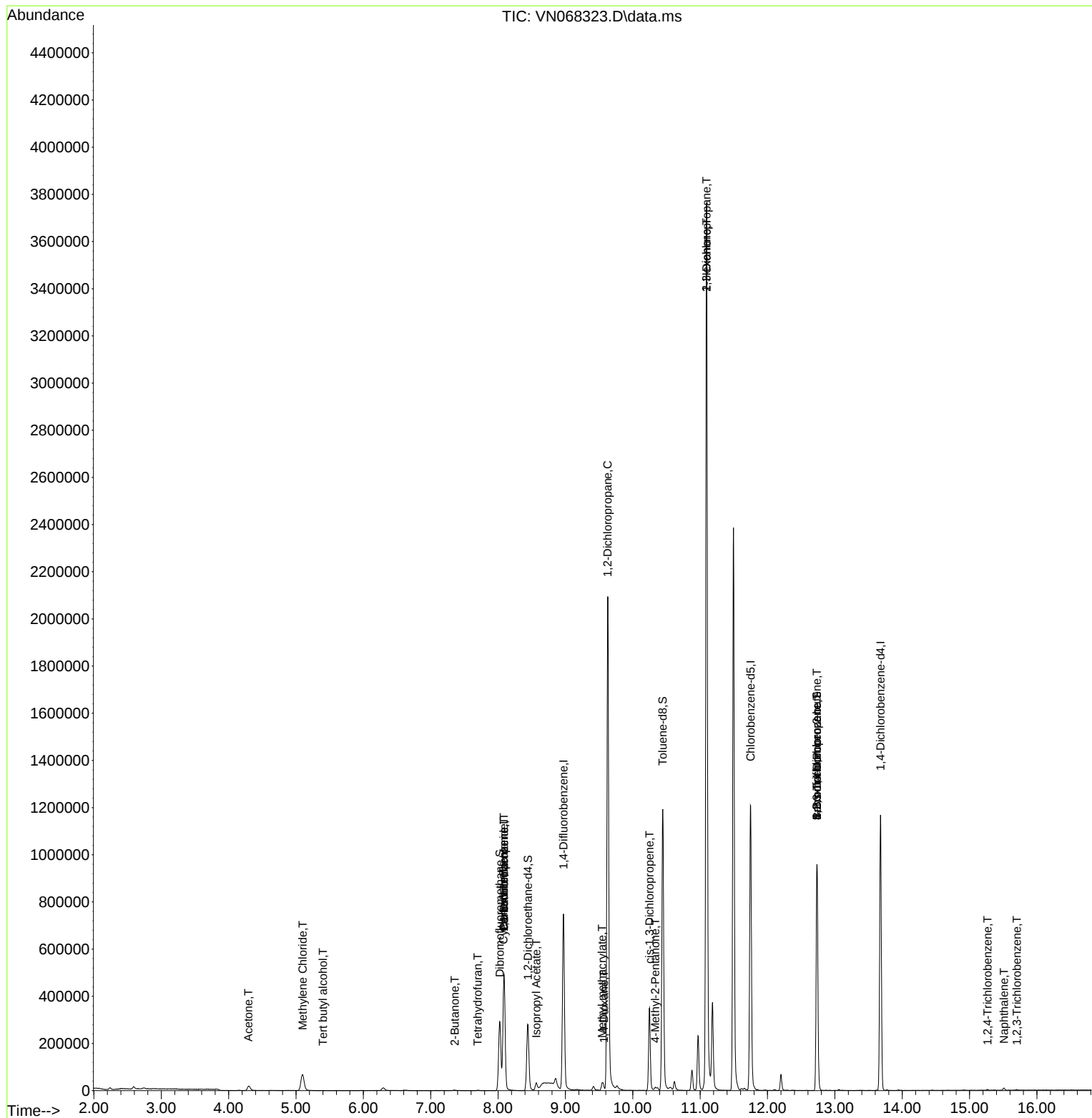
Internal Standards						
1) Pentafluorobenzene	8.088	168	411882	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	708605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	801105	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	351239	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.442	65	235780	53.614	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 107.220%			
35) Dibromofluoromethane	8.027	113	214240	48.157	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.320%			
50) Toluene-d8	10.443	98	886781	52.313	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.620%			
62) 4-Bromofluorobenzene	12.733	95	325549	57.690	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 115.380%			
Target Compounds						
5) Bromomethane	2.872	94	824	Below Cal	#	65
6) Chloroethane	2.995	64	180	Below Cal	#	44
11) Tert butyl alcohol	5.401	59	300	0.547	ug/l	# 71
13) Acrolein	4.041	56	52	Below Cal	#	14
16) Acetone	4.293	43	37215	28.983	ug/l	92
18) Methyl Acetate	4.862	43	239	Below Cal	#	54
20) Methylene Chloride	5.101	84	60719	15.631	ug/l	# 80
25) 2-Butanone	7.356	43	3383	1.691	ug/l	91
29) Tetrahydrofuran	7.697	42	1156	0.903	ug/l	# 68
31) Cyclohexane	8.080	56	3592	0.620	ug/l	# 1
36) 1,1-Dichloropropene	8.086	75	25984	4.486	ug/l	# 52
38) Carbon Tetrachloride	8.086	117	38319	5.736	ug/l	# 17
43) Isopropyl Acetate	8.568	43	38916	4.923	ug/l	# 91
45) 1,2-Dichloropropane	9.625	63	2613	0.628	ug/l	# 44
48) Methyl methacrylate	9.545	41	8719	2.647	ug/l	# 12
49) 1,4-Dioxane	9.574	88	27	0.339	ug/l	# 20
51) 4-Methyl-2-Pentanone	10.333	43	6667	1.373	ug/l	# 75
54) cis-1,3-Dichloropropene	10.247	75	68418	10.199	ug/l	# 57
57) 1,3-Dichloropropane	11.095	76	43396	5.850	ug/l	# 43
59) 2-Hexanone	11.095	43	536639	159.163	ug/l	# 57
71) Bromoform	12.733	173	2200	0.443	ug/l	# 1
76) 1,2,3-Trichloropropane	12.733	75	165111	28.282	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.733	75	165111	92.658	ug/l	# 6
93) 1,2,4-Trichlorobenzene	15.268	180	1242	2.886	ug/l	87
95) Naphthalene	15.509	128	9545	3.990	ug/l	99
96) 1,2,3-Trichlorobenzene	15.702	180	1126	3.022	ug/l	83

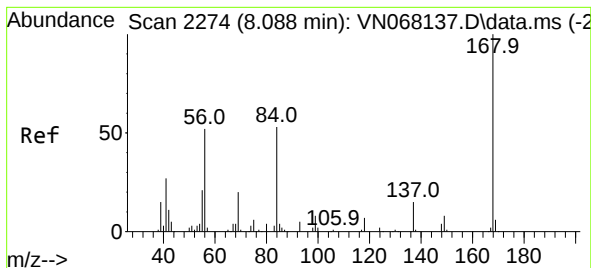
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN068323.D

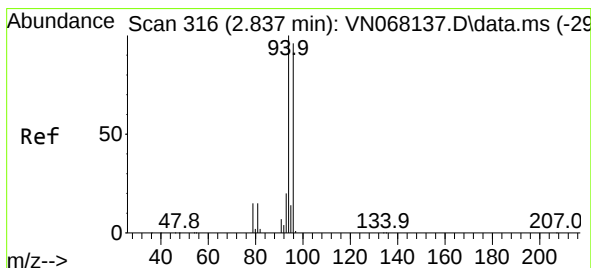
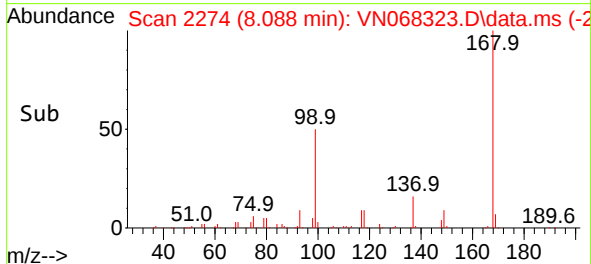
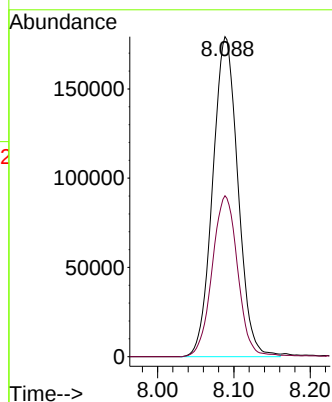
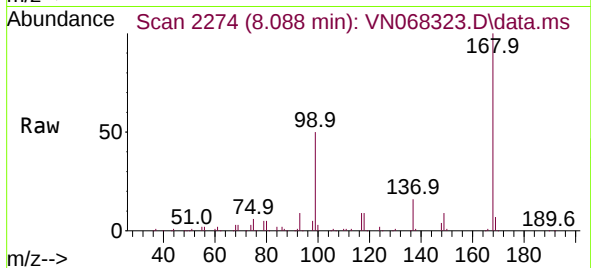
Acq: 26 Aug 2021 16:38

Tgt Ion:168 Resp: 411882

Ion Ratio Lower Upper

168 100

99 50.3 62.9 94.3#



#5

Bromomethane

Concen: Below Cal

RT: 2.872 min Scan# 329

Delta R.T. 0.035 min

Lab File: VN068323.D

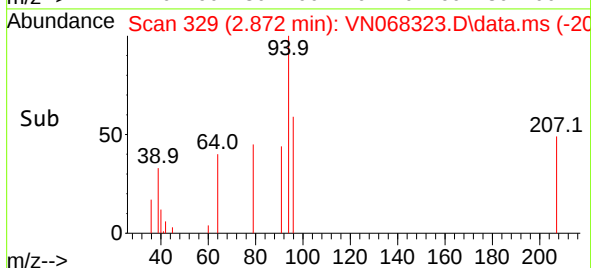
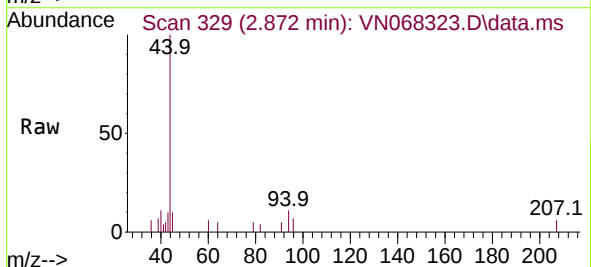
Acq: 26 Aug 2021 16:38

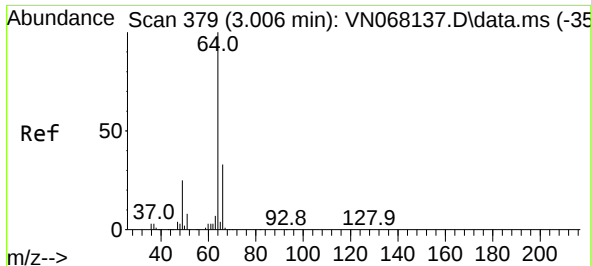
Tgt Ion: 94 Resp: 824

Ion Ratio Lower Upper

94 100

96 59.2 73.7 110.5#

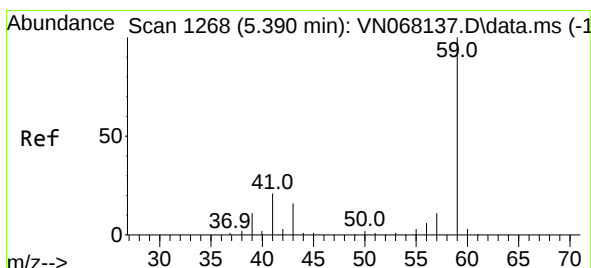
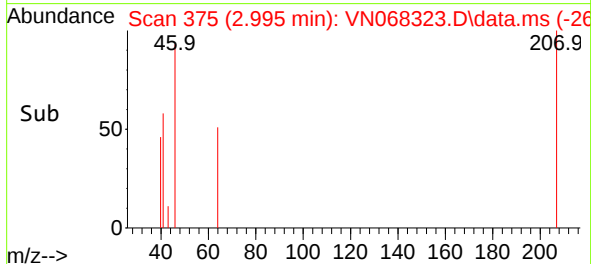
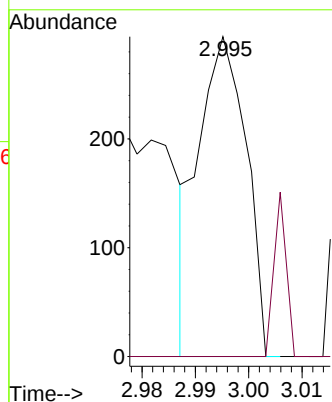
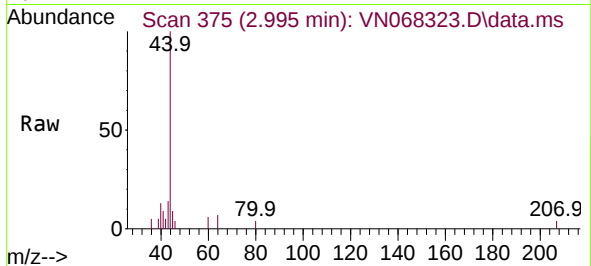




#6
Chloroethane
Concen: Below Cal
RT: 2.995 min Scan# 375
Delta R.T. -0.011 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

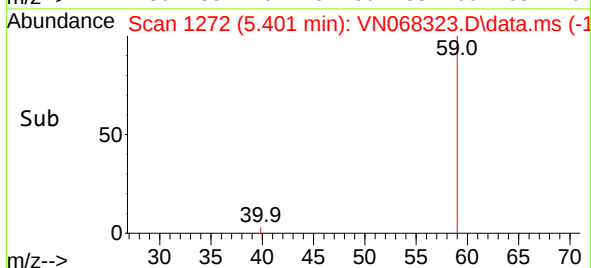
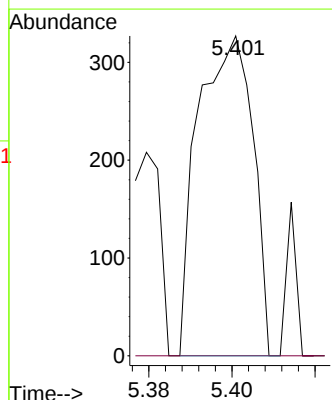
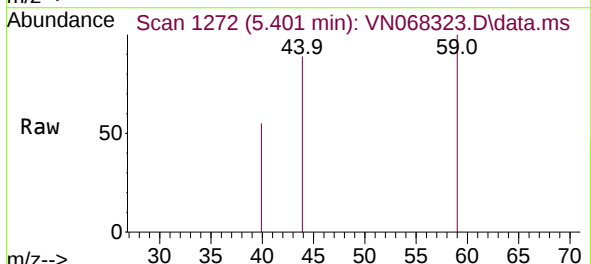
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WVLY-SOIL-82421

Tgt Ion: 64 Resp: 180
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.547 ug/l
RT: 5.401 min Scan# 1272
Delta R.T. 0.011 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 59 Resp: 300
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

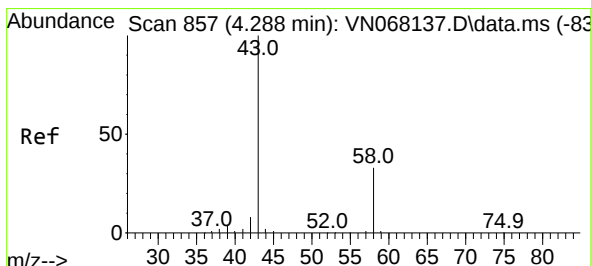
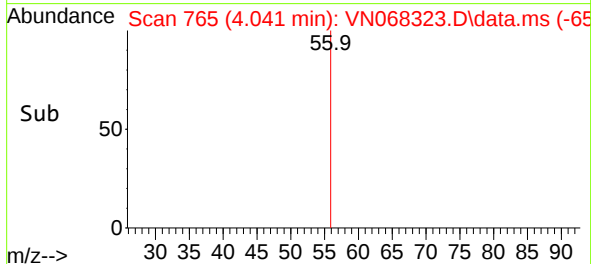
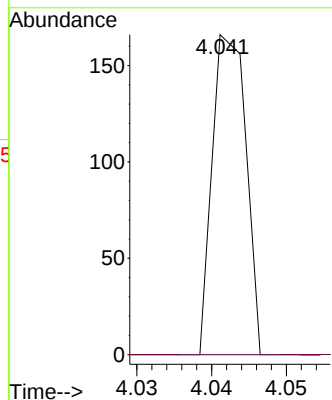
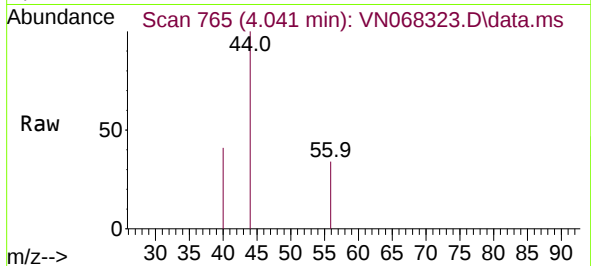




#13
Acrolein
Concen: Below Cal
RT: 4.041 min Scan# 765
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

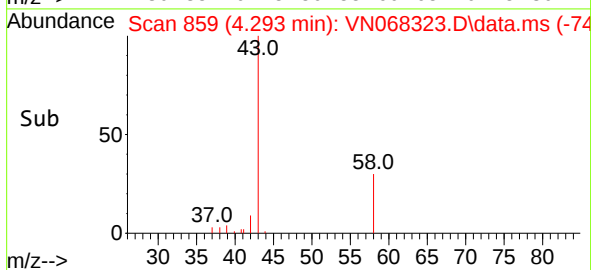
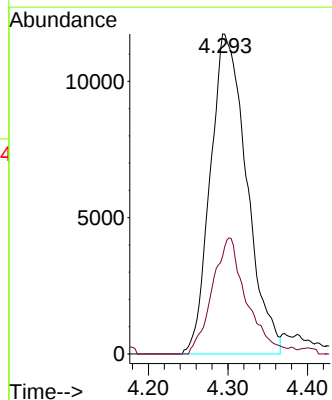
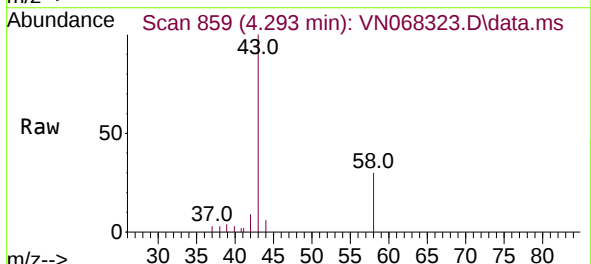
Instrument :
MSVOA_N
ClientSampleId :
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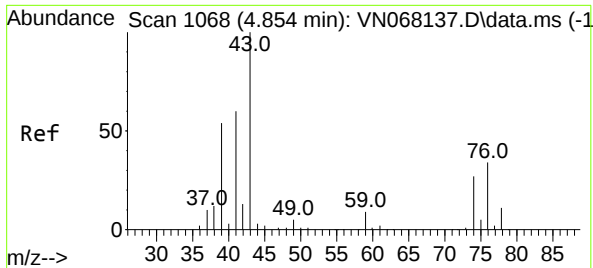
Tgt Ion: 56 Resp: 52
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 28.983 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 43 Resp: 37215
Ion Ratio Lower Upper
43 100
58 30.5 21.2 31.8

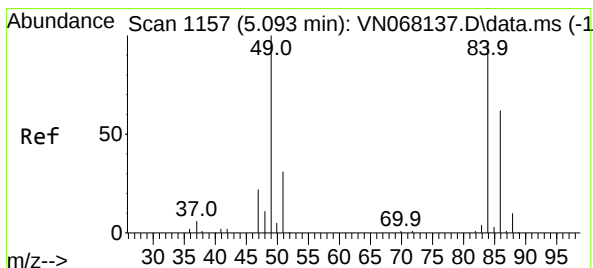
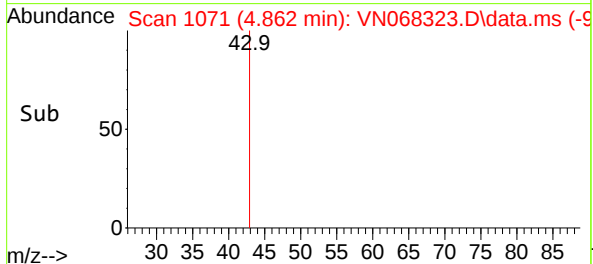
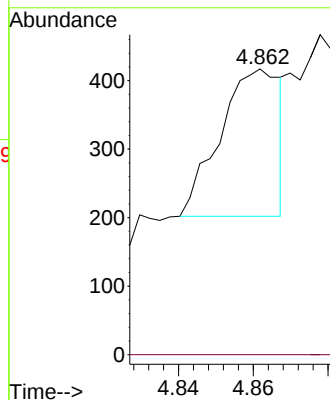
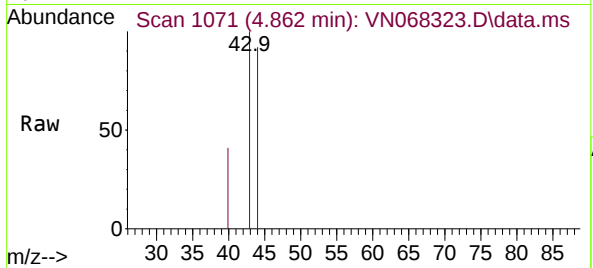




#18
Methyl Acetate
Concen: Below Cal
RT: 4.862 min Scan# 1071
Delta R.T. 0.008 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

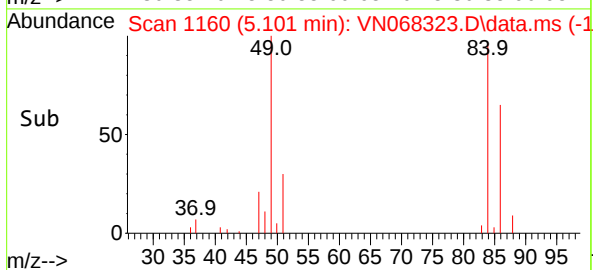
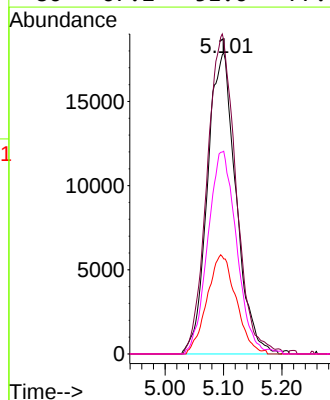
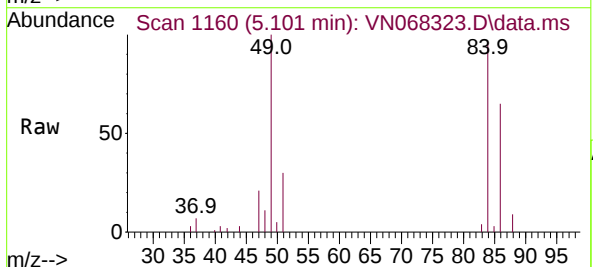
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

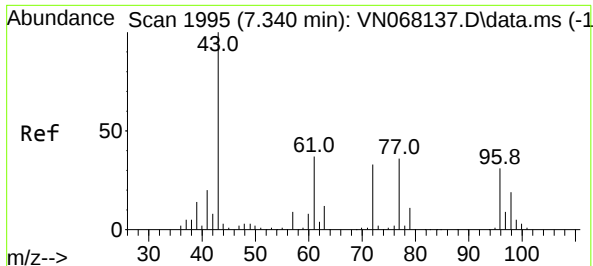
Tgt Ion: 43 Resp: 239
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 15.631 ug/l
RT: 5.101 min Scan# 1160
Delta R.T. 0.008 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 84 Resp: 60719
Ion Ratio Lower Upper
84 100
49 104.1 110.9 166.3#
51 31.5 32.6 49.0#
86 67.2 51.6 77.4

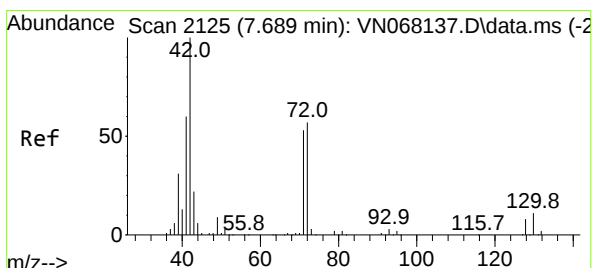
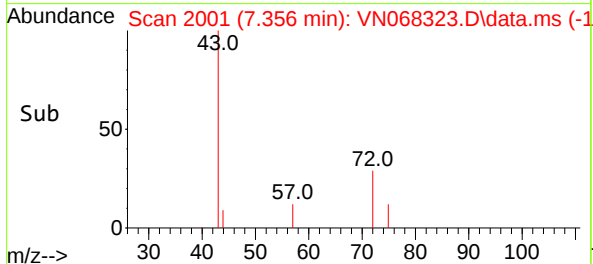
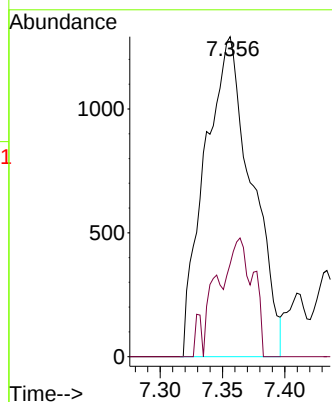
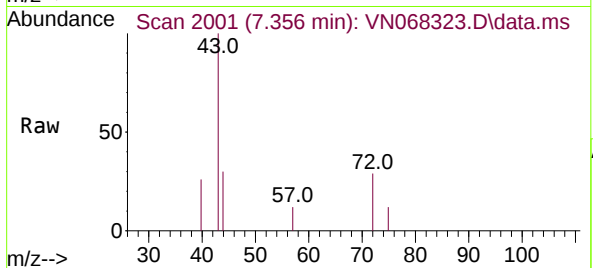




#25
2-Butanone
Concen: 1.691 ug/l
RT: 7.356 min Scan# 2001
Delta R.T. 0.016 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

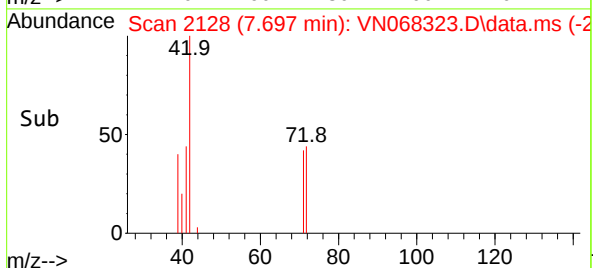
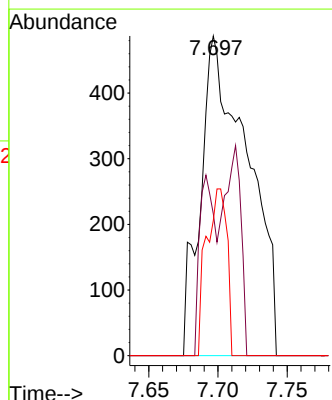
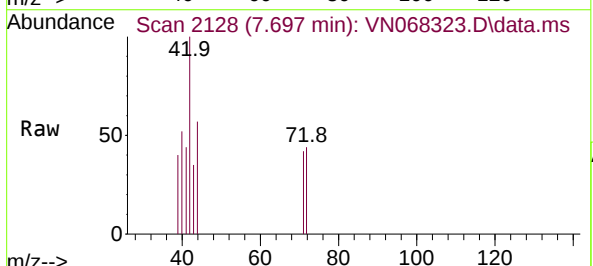
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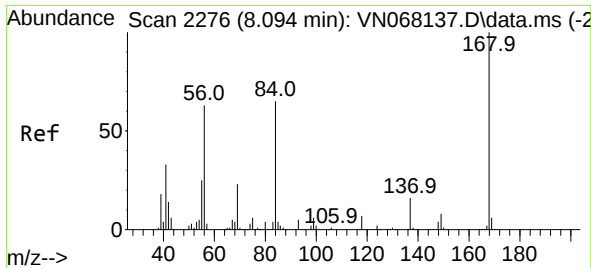
Tgt Ion: 43 Resp: 3383
Ion Ratio Lower Upper
43 100
72 28.9 19.7 29.5



#29
Tetrahydrofuran
Concen: 0.903 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.008 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 42 Resp: 1156
Ion Ratio Lower Upper
42 100
72 18.5 32.8 49.2#
71 22.6 31.2 46.8#

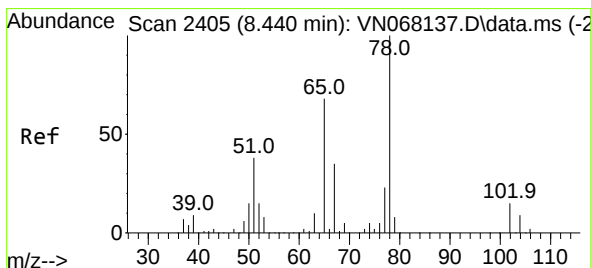
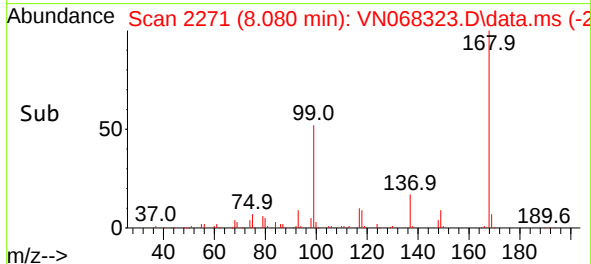
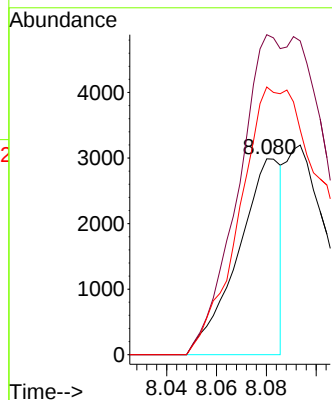
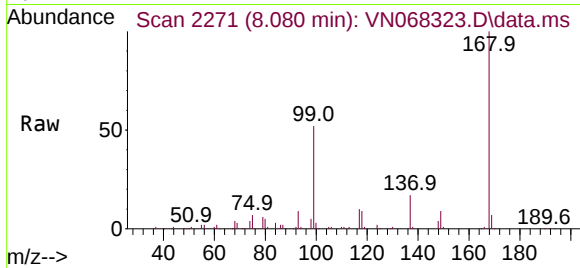




#31
Cyclohexane
Concen: 0.620 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.014 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

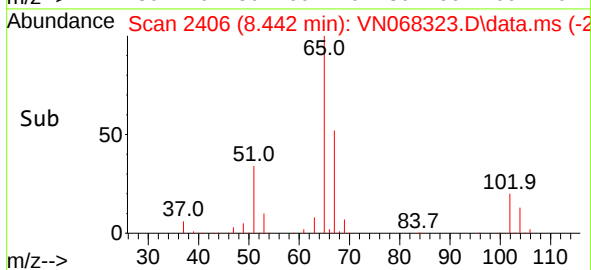
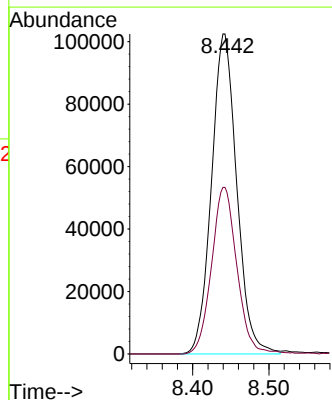
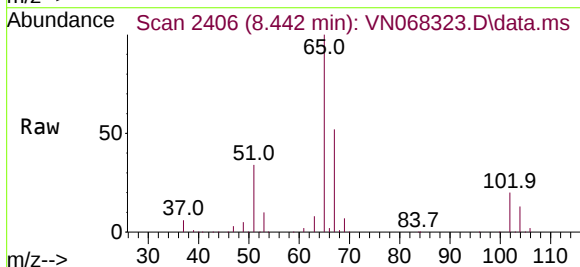
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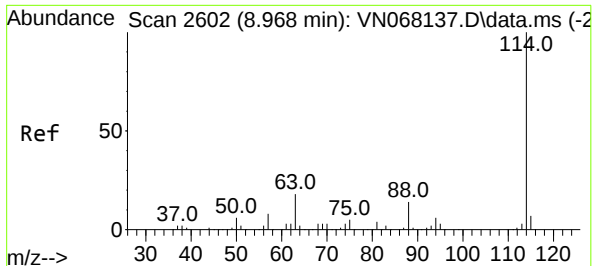
Tgt Ion:	56	Resp:	3592
Ion	Ratio	Lower	Upper
56	100		
69	163.4	27.3	40.9#
84	136.7	64.9	97.3#



#33
1,2-Dichloroethane-d4
Concen: 53.614 ug/l
RT: 8.442 min Scan# 2406
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion:	65	Resp:	235780
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	98.6

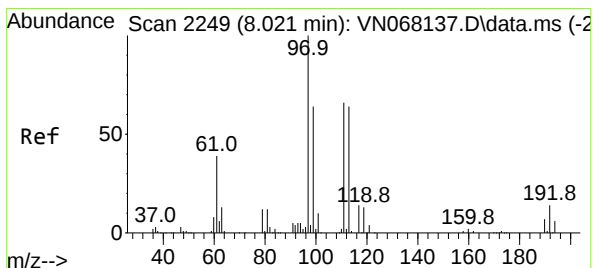
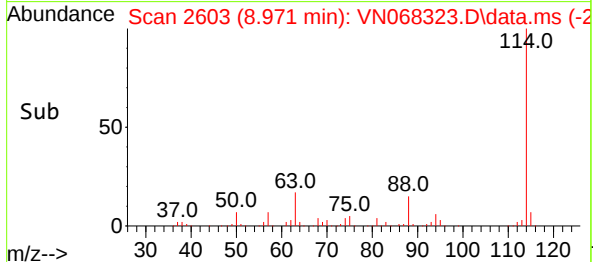
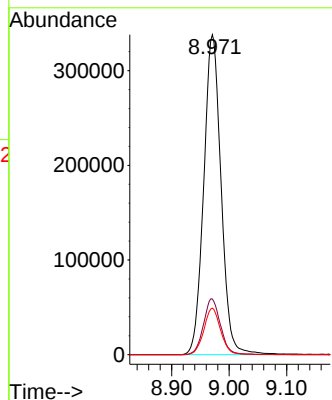
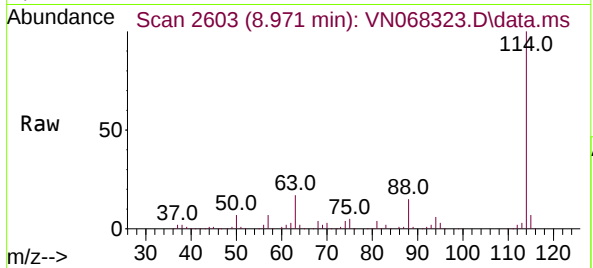




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

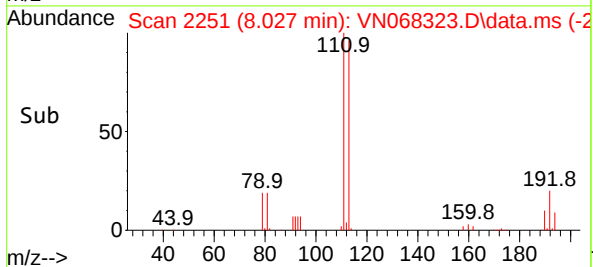
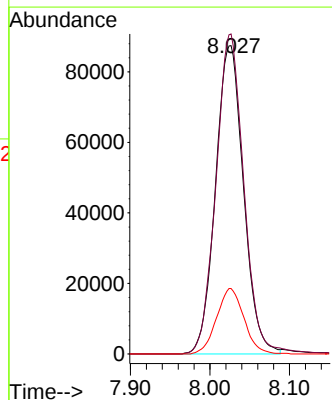
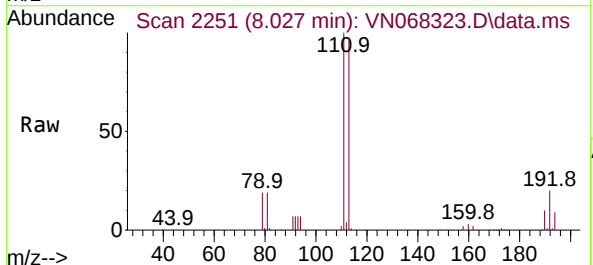
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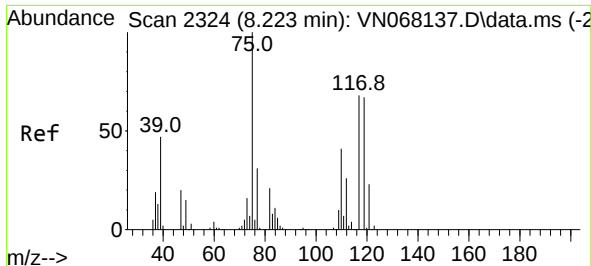
Tgt Ion:114 Resp: 708605
Ion Ratio Lower Upper
114 100
63 17.4 0.0 49.0
88 14.6 0.0 36.6



#35
Dibromofluoromethane
Concen: 48.157 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.006 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion:113 Resp: 214240
Ion Ratio Lower Upper
113 100
111 103.5 83.8 125.8
192 20.7 13.4 20.0#

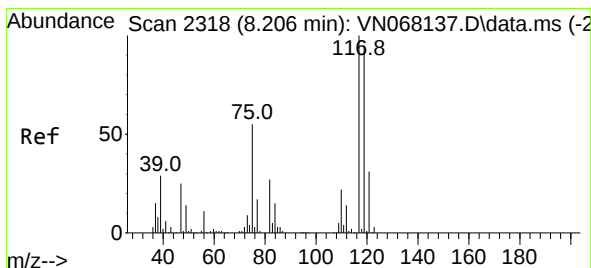
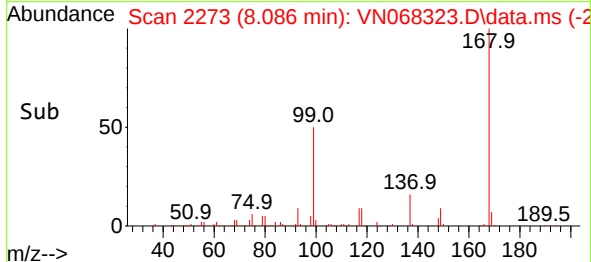
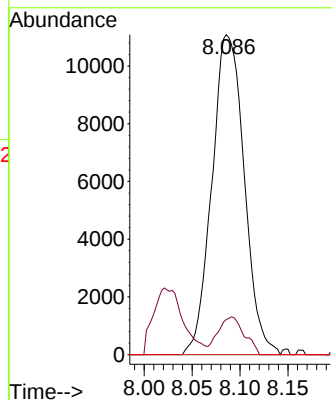
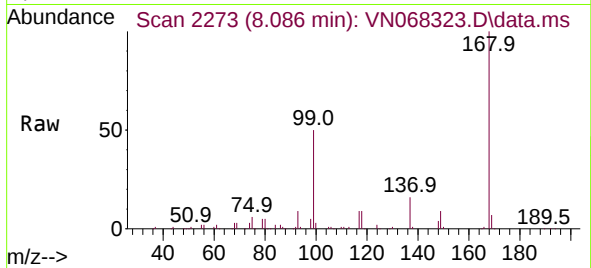




#36
1,1-Dichloropropene
Concen: 4.486 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

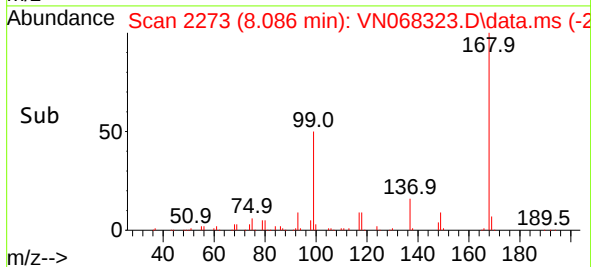
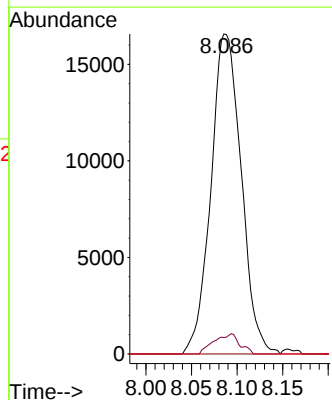
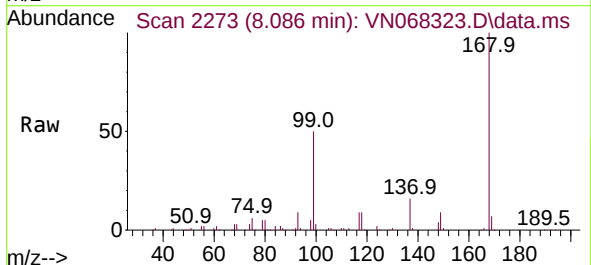
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

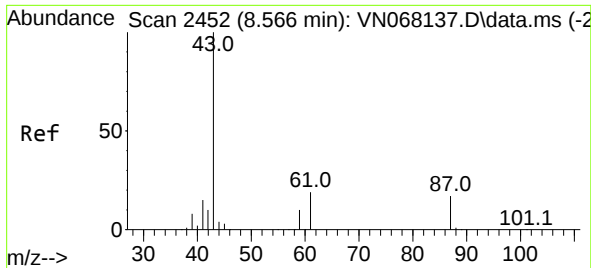
Tgt Ion: 75 Resp: 25984
Ion Ratio Lower Upper
75 100
110 9.5 15.7 47.0#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 5.736 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 117 Resp: 38319
Ion Ratio Lower Upper
117 100
119 5.2 75.4 113.2#
121 0.0 23.5 35.3#

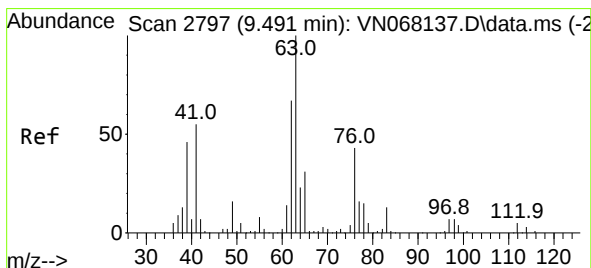
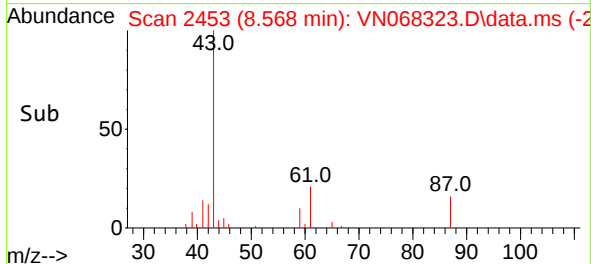
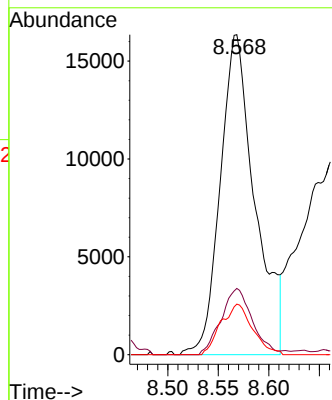
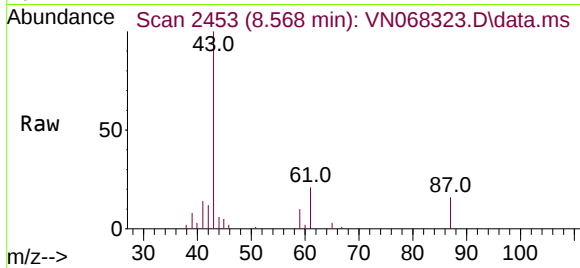




#43
Isopropyl Acetate
Concen: 4.923 ug/l
RT: 8.568 min Scan# 2453
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

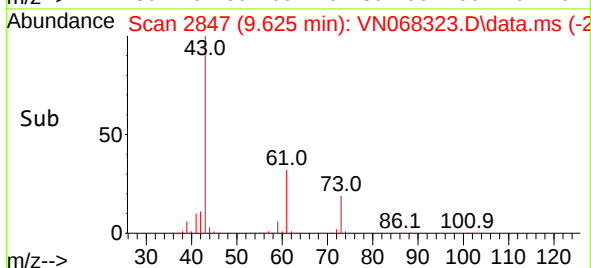
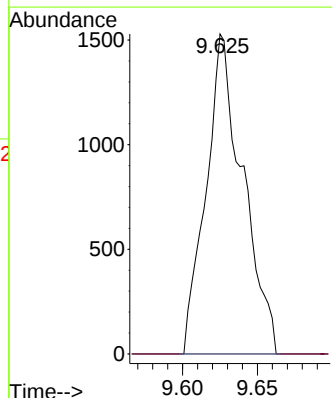
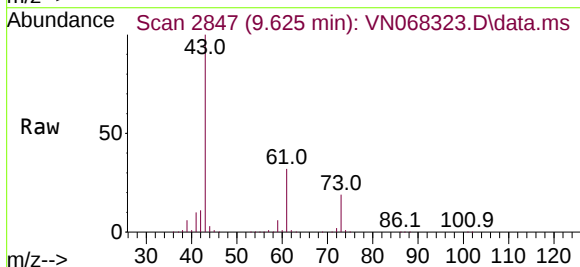
Instrument :
MSVOA_N
ClientSampleId :
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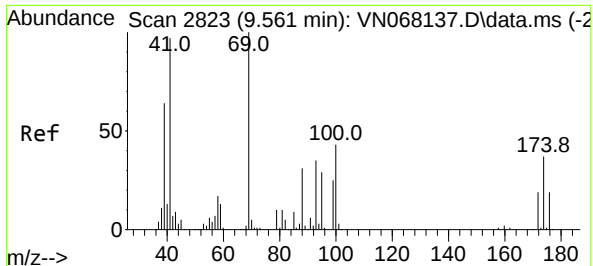
Tgt Ion: 43 Resp: 38916
Ion Ratio Lower Upper
43 100
61 18.6 19.0 28.4#
87 14.4 9.5 14.3#



#45
1,2-Dichloropropane
Concen: 0.628 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 63 Resp: 2613
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

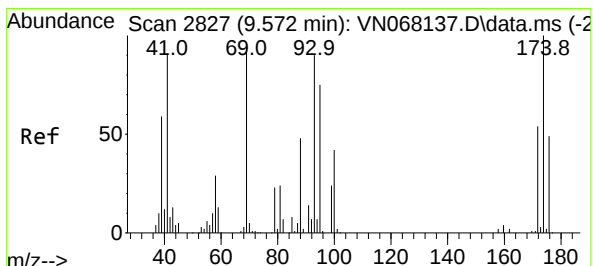
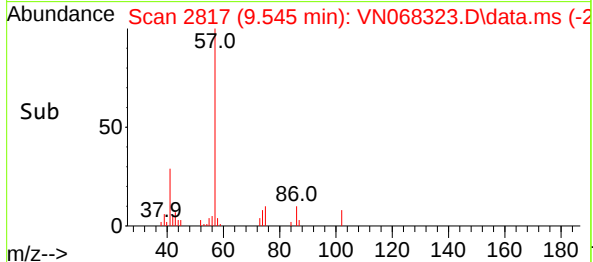
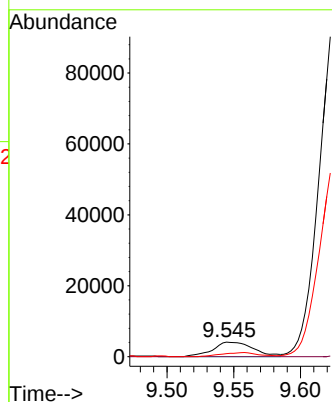
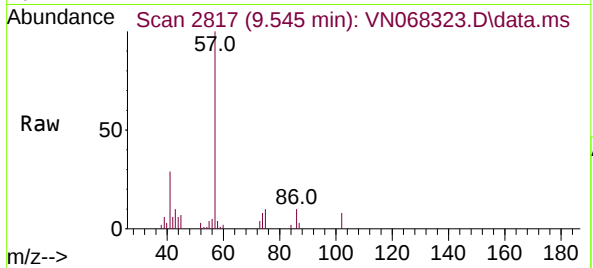




#48
Methyl methacrylate
Concen: 2.647 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

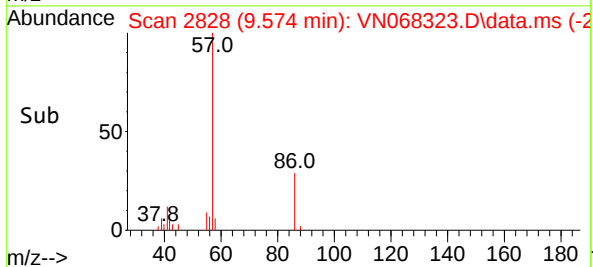
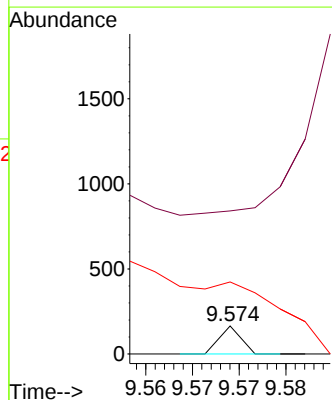
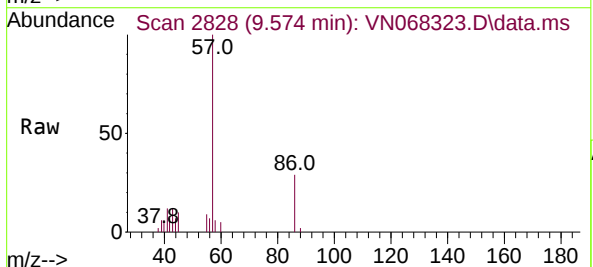
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

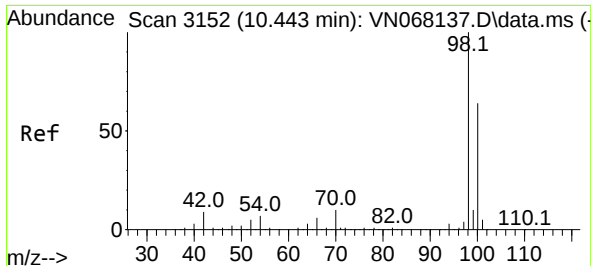
Tgt Ion: 41 Resp: 8719
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#



#49
1,4-Dioxane
Concen: 0.339 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 0.0 28.8 43.2#
58 0.0 60.4 90.6#

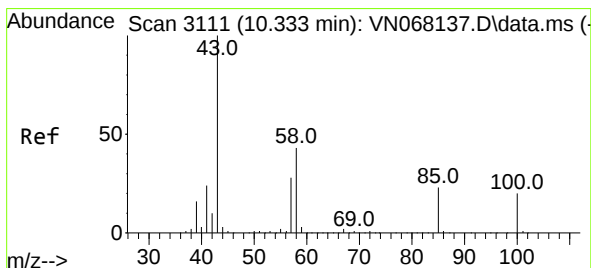
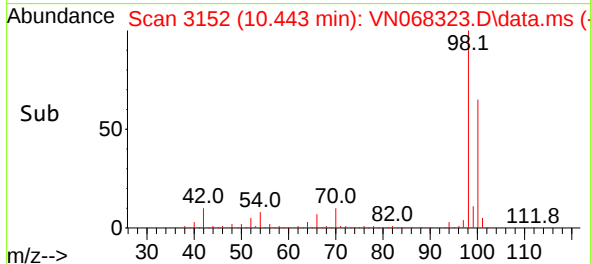
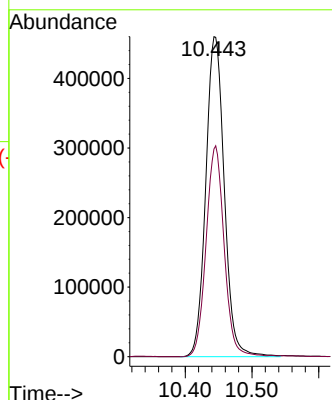
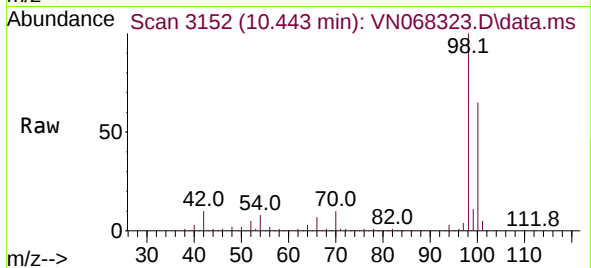




#50
Toluene-d8
Concen: 52.313 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

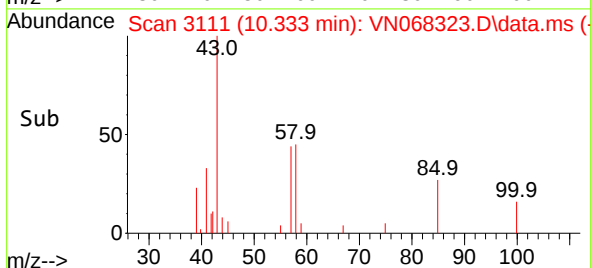
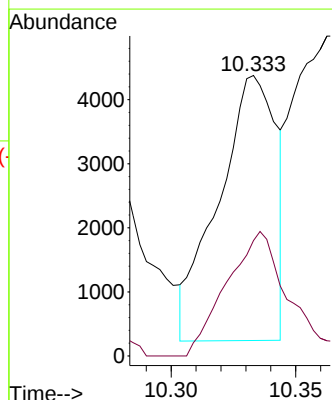
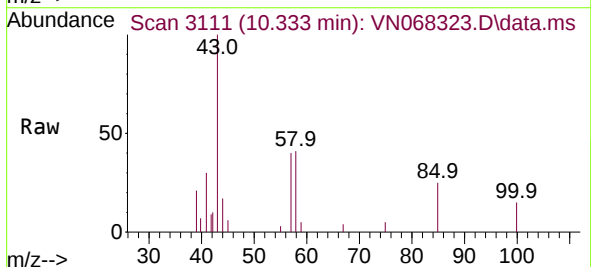
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

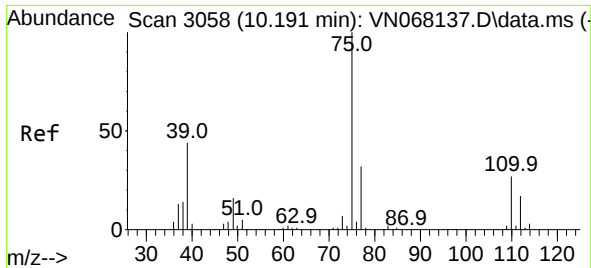
Tgt Ion: 98 Resp: 886781
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.373 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 43 Resp: 6667
Ion Ratio Lower Upper
43 100
58 50.7 28.6 43.0#

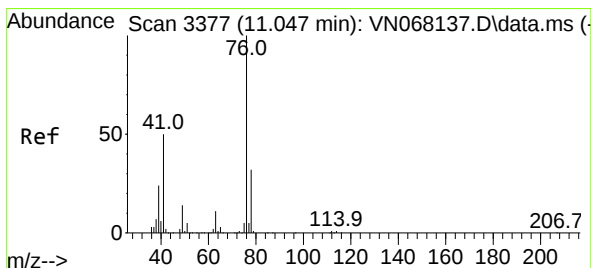
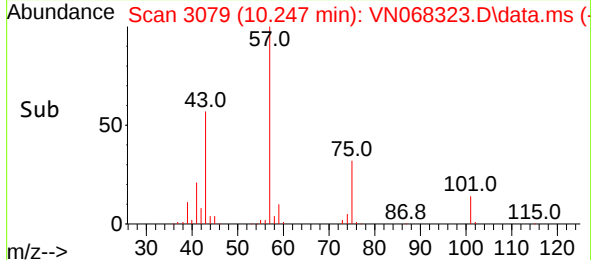
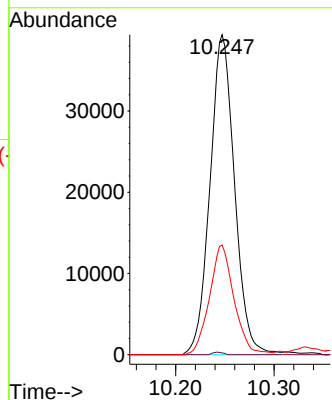
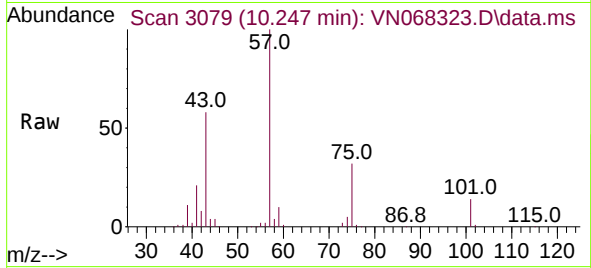




#54
 cis-1,3-Dichloropropene
 Concen: 10.199 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN068323.D
 Acq: 26 Aug 2021 16:38

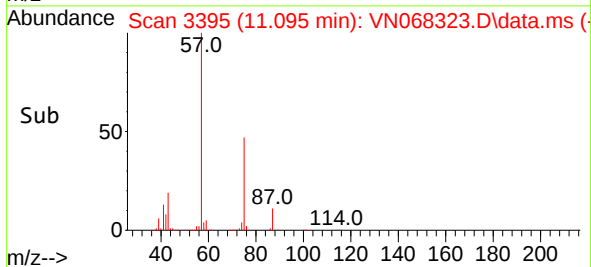
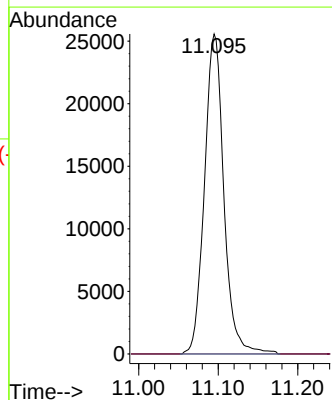
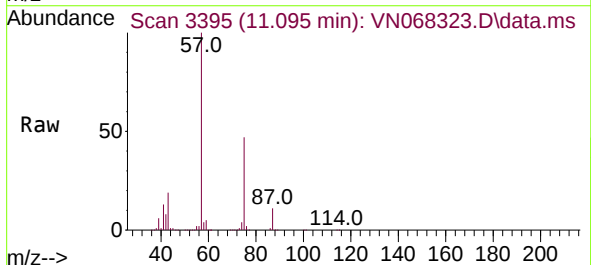
Instrument :
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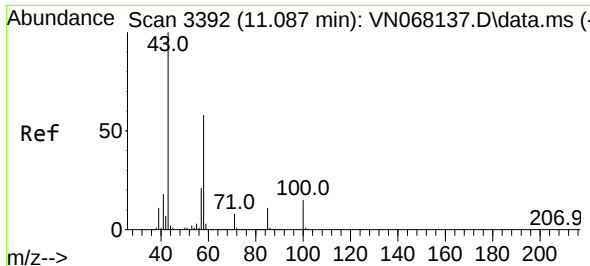
Tgt Ion: 75 Resp: 68418
 Ion Ratio Lower Upper
 75 100
 77 0.5 24.6 37.0#
 39 34.2 50.7 76.1#



#57
 1,3-Dichloropropane
 Concen: 5.850 ug/l
 RT: 11.095 min Scan# 3395
 Delta R.T. 0.048 min
 Lab File: VN068323.D
 Acq: 26 Aug 2021 16:38

Tgt Ion: 76 Resp: 43396
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

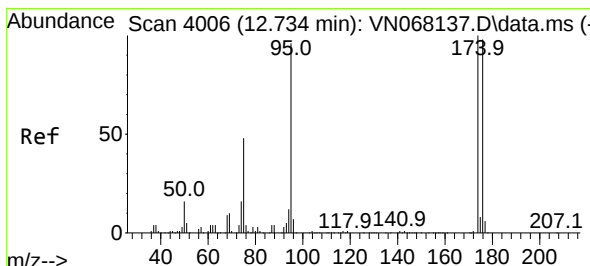
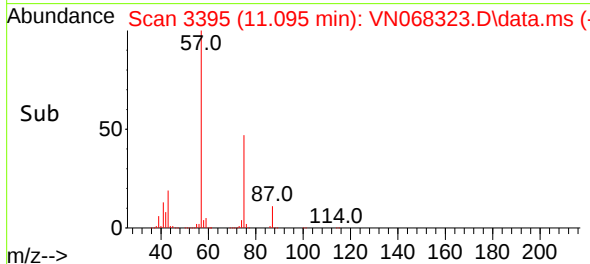
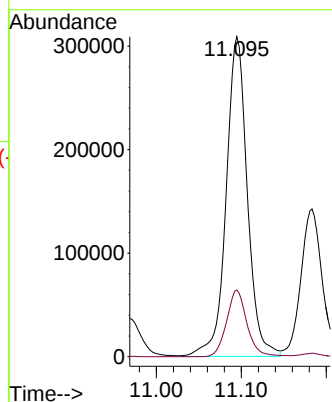
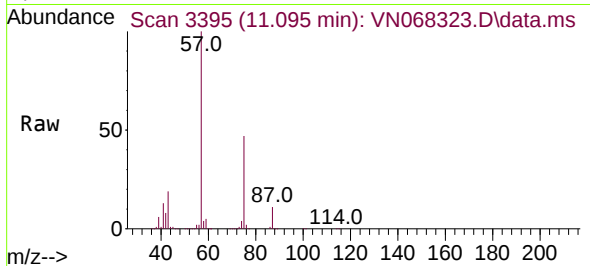




#59
2-Hexanone
Concen: 159.163 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

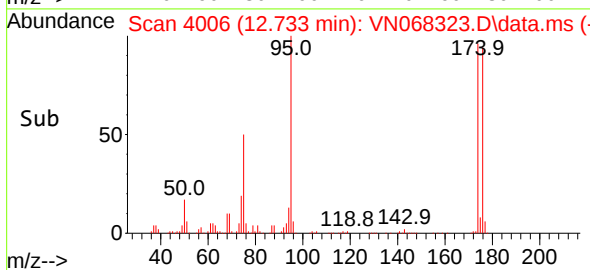
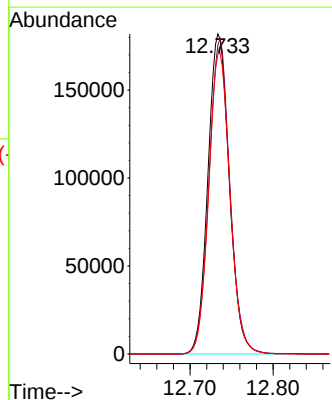
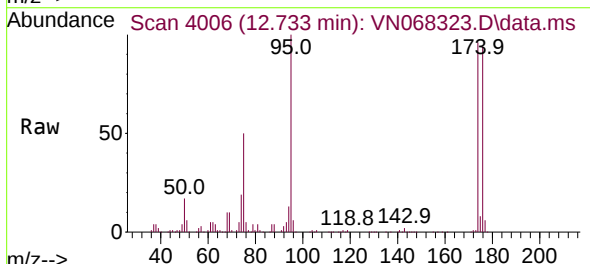
Instrument :
MSVOA_N
ClientSampleId :
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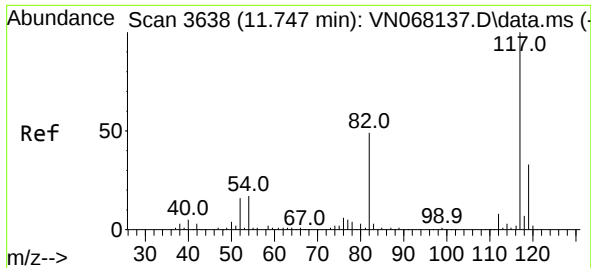
Tgt Ion: 43 Resp: 536639
Ion Ratio Lower Upper
43 100
58 20.1 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 57.690 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 95 Resp: 325549
Ion Ratio Lower Upper
95 100
174 96.5 0.0 122.0
176 93.2 0.0 117.6

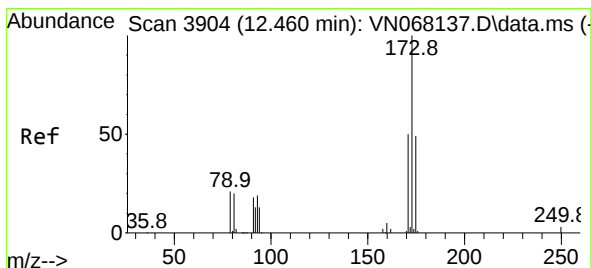
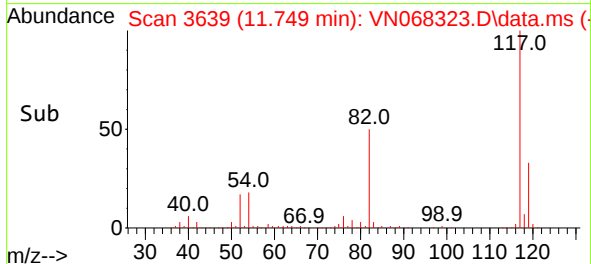
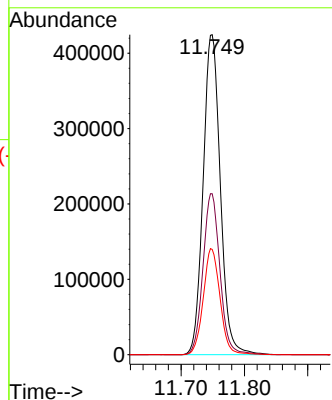
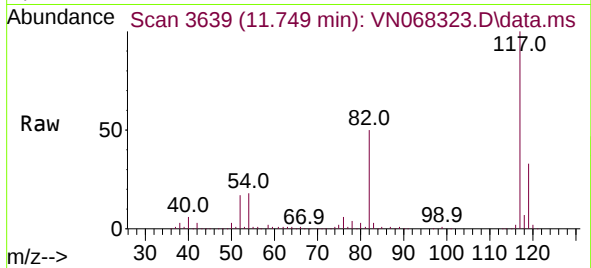




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

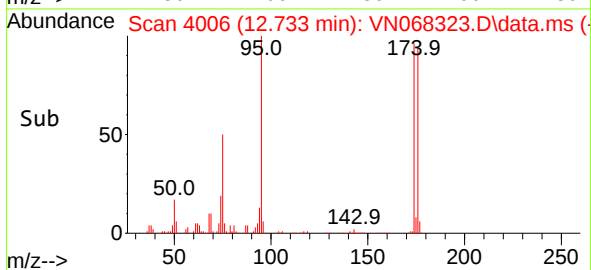
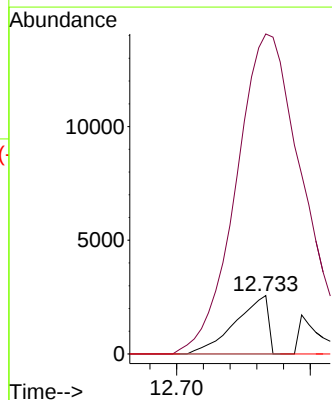
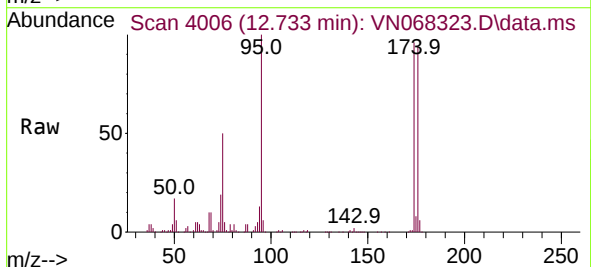
Instrument :
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ClientSampleId :
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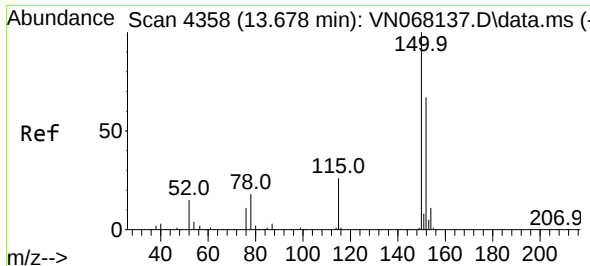
Tgt Ion:117 Resp: 801105
Ion Ratio Lower Upper
117 100
82 50.3 53.1 79.7#
119 32.9 25.5 38.3



#71
Bromoform
Concen: 0.443 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.273 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion:173 Resp: 2200
Ion Ratio Lower Upper
173 100
175 993.3 23.9 71.8#
254 0.0 0.0 0.0

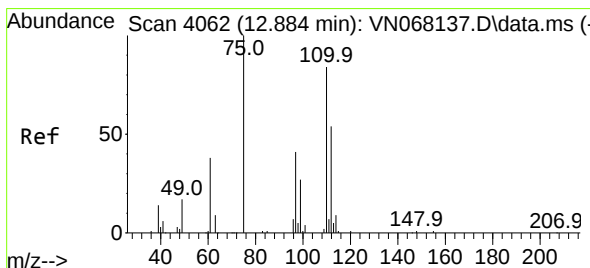
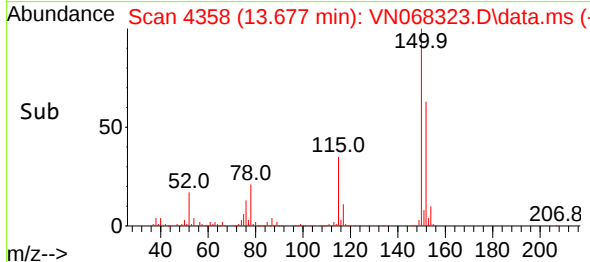
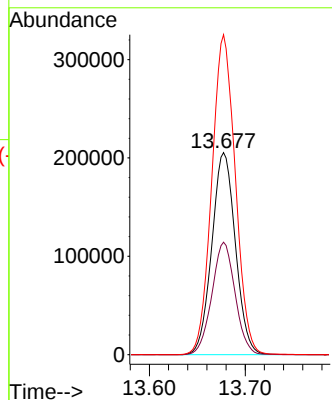
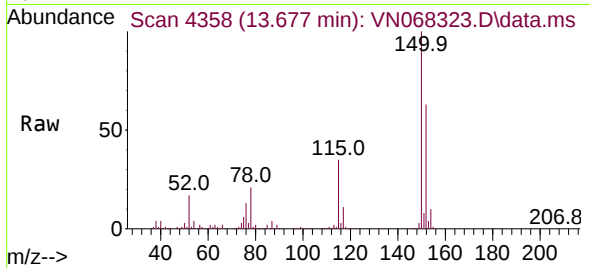




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. -0.001 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

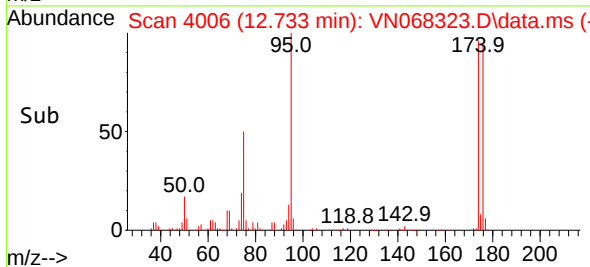
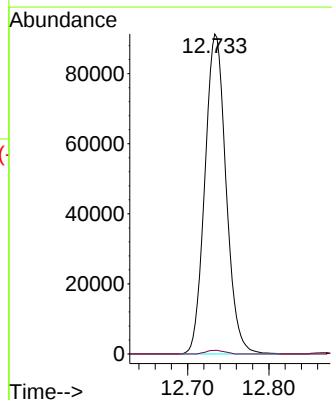
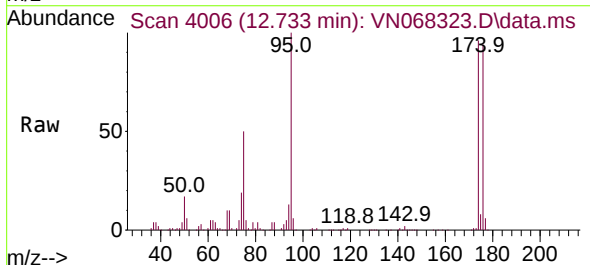
Instrument :
MSVOA_N
ClientSampleId :
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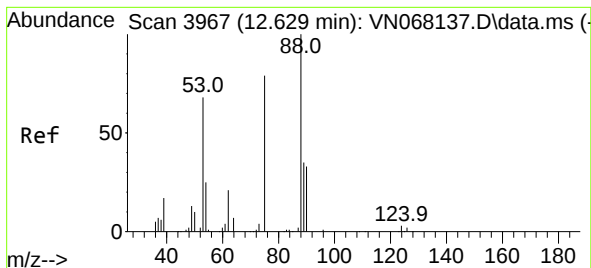
Tgt Ion:152 Resp: 351239
Ion Ratio Lower Upper
152 100
115 54.7 36.1 108.5
150 157.9 0.0 351.8



#76
1,2,3-Trichloropropane
Concen: 28.282 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion: 75 Resp: 165111
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

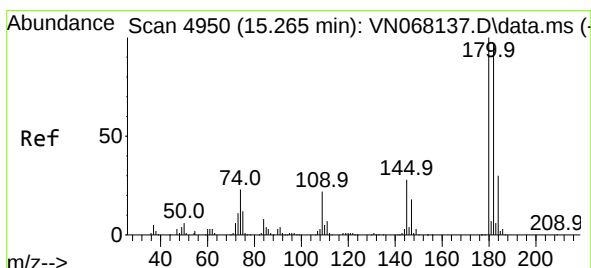
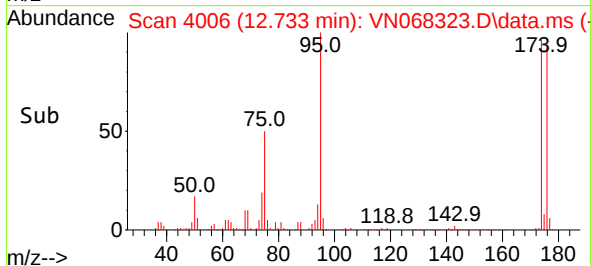
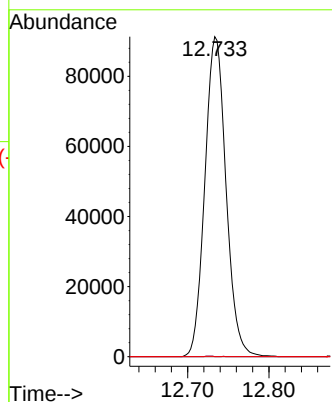
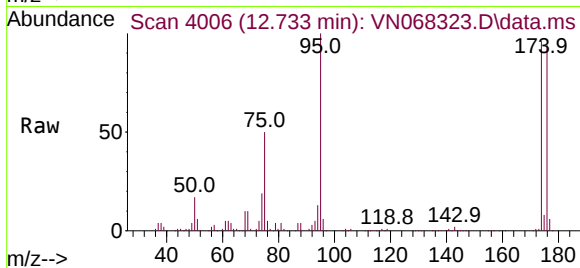




#81
trans-1,4-Dichloro-2-butene
Concen: 92.658 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

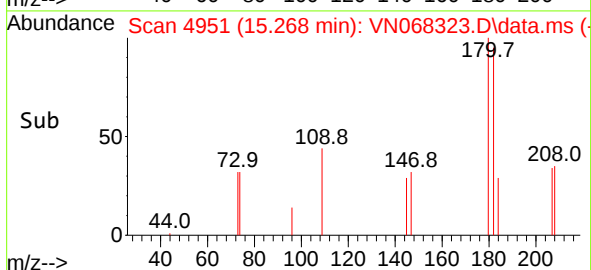
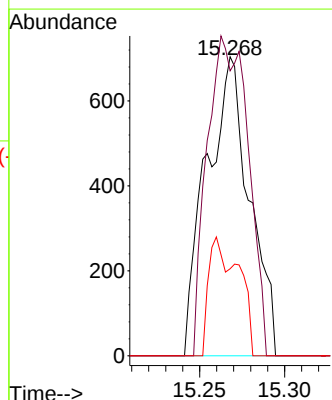
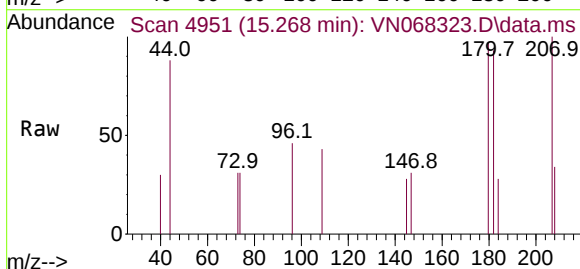
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

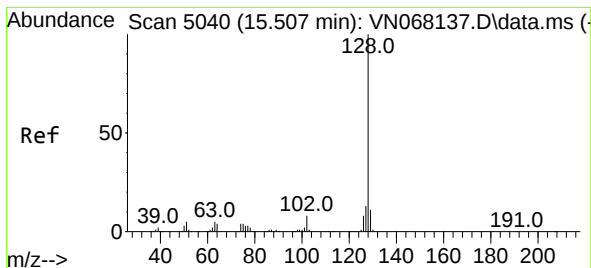
Tgt Ion: 75 Resp: 165111
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.886 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion:180 Resp: 1242
Ion Ratio Lower Upper
180 100
182 101.8 47.5 142.5
145 17.4 17.2 51.6

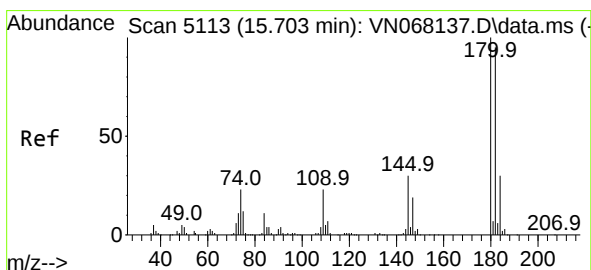
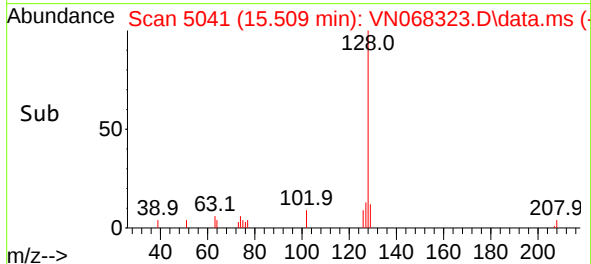
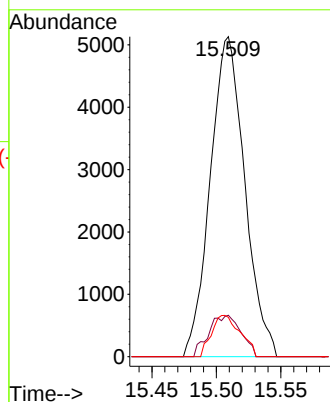
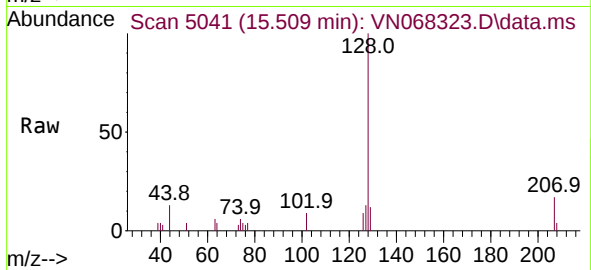




#95
Naphthalene
Concen: 3.990 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

Tgt Ion:	128	Resp:	9545
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.6	15.8
129	10.7	8.6	12.8



#96
1,2,3-Trichlorobenzene
Concen: 3.022 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. -0.001 min
Lab File: VN068323.D
Acq: 26 Aug 2021 16:38

Tgt Ion:	180	Resp:	1126
Ion Ratio	Lower	Upper	
180	100		
182	107.9	47.8	143.3
145	19.1	18.2	54.6

