

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092821\
 Data File : VD070509.D
 Acq On : 28 Sep 2021 18:20
 Operator : VA/SY
 Sample : M3938-03
 Misc : 6.80G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SUB-SLAB-05(6-2.6)

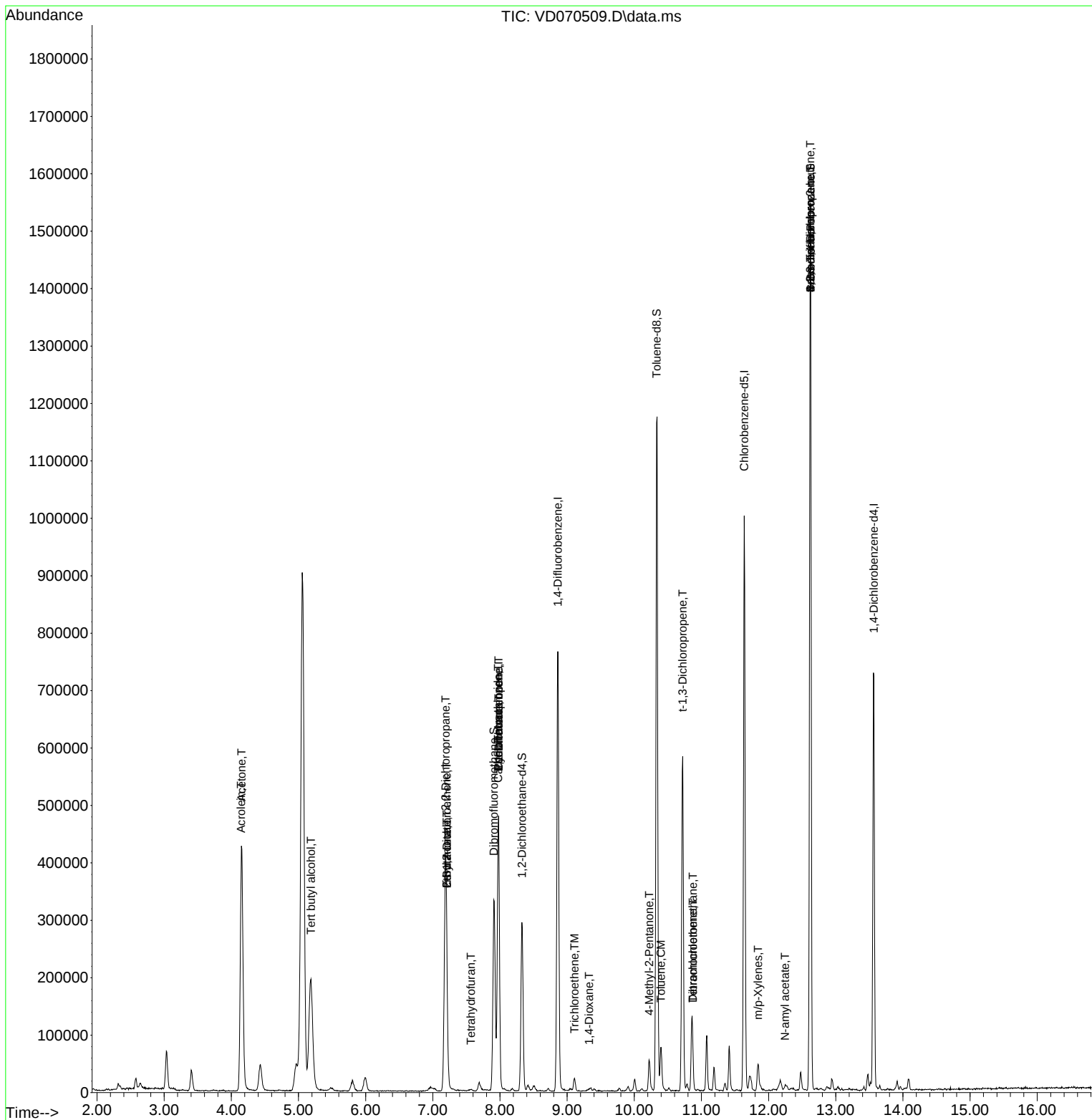
Quant Time: Sep 28 23:44:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

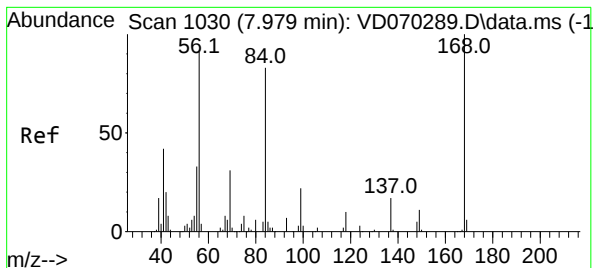
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	334772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	671591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	582884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	198631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	232706	54.136	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 108.280%	
35) Dibromofluoromethane	7.909	113	249135	52.115	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.240%	
50) Toluene-d8	10.332	98	839692	48.378	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 96.760%	
62) 4-Bromofluorobenzene	12.626	95	248093	40.899	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 81.800%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	334	Below Cal	#	43
3) Chloromethane	2.203	50	312	Below Cal	#	42
5) Bromomethane	2.756	94	66	Below Cal	#	4
6) Chloroethane	2.938	64	70	Below Cal	#	43
11) Tert butyl alcohol	5.185	59	210897	433.919	ug/l	# 100
13) Acrolein	4.144	56	1421	6.650	ug/l	# 1
16) Acetone	4.150	43	727409	947.836	ug/l	100
18) Methyl Acetate	4.709	43	597	Below Cal	#	48
20) Methylene Chloride	4.968	84	33911	Below Cal		87
25) 2-Butanone	7.209	43	35786	35.030	ug/l	98
26) 2,2-Dichloropropane	7.191	77	27209	3.881	ug/l	# 51
27) cis-1,2-Dichloroethene	7.209	96	6085	1.221	ug/l	# 1
29) Tetrahydrofuran	7.567	42	1057	1.612	ug/l	# 39
31) Cyclohexane	7.979	56	9458	1.277	ug/l	# 18
36) 1,1-Dichloropropene	7.979	75	30512	4.250	ug/l	# 49
37) Ethyl Acetate	7.209	43	35786	13.332	ug/l	# 1
38) Carbon Tetrachloride	7.973	117	36118	5.087	ug/l	# 17
44) Trichloroethene	9.108	130	8350	1.661	ug/l	90
49) 1,4-Dioxane	9.326	88	67	2.354	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.220	43	37433	14.575	ug/l	91
52) Toluene	10.397	92	33871	2.665	ug/l	94
53) t-1,3-Dichloropropene	10.720	75	8874	1.423	ug/l	# 57
60) Dibromochloromethane	10.873	129	7241	1.591	ug/l	# 13
64) Tetrachloroethene	10.873	164	7341	2.069	ug/l	90
68) m/p-Xylenes	11.844	106	15959	1.984	ug/l	88
71) Bromoform	12.626	173	2328	1.065	ug/l	# 1
74) N-amyl acetate	12.244	43	5684	1.873	ug/l	# 48
76) 1,2,3-Trichloropropane	12.620	75	126331	62.877	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.620	75	126331	157.544	ug/l	# 19

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD070509.D

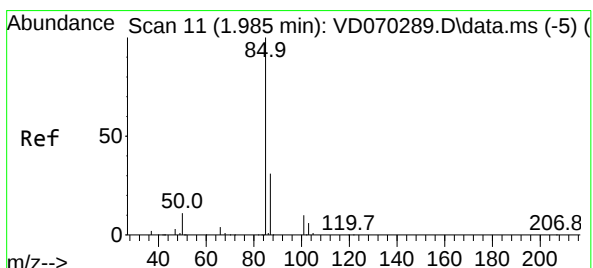
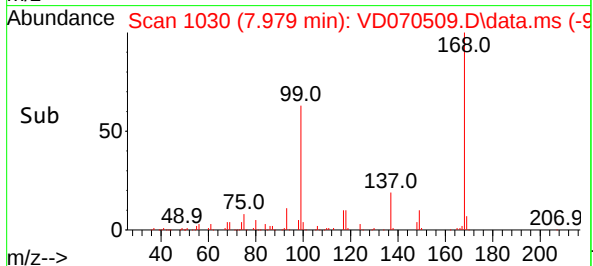
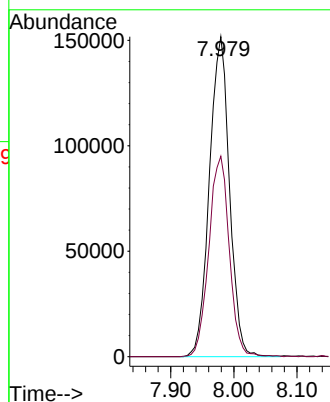
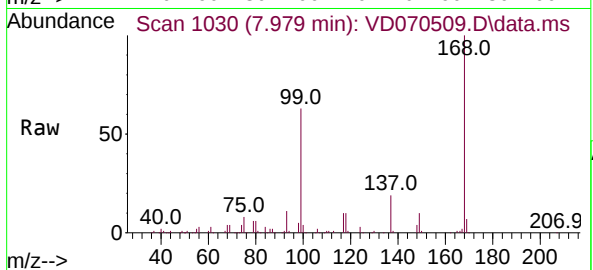
Acq: 28 Sep 2021 18:20

Tgt Ion:168 Resp: 334772

Ion Ratio Lower Upper

168 100

99 62.6 50.8 76.2



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.991 min Scan# 12

Delta R.T. 0.006 min

Lab File: VD070509.D

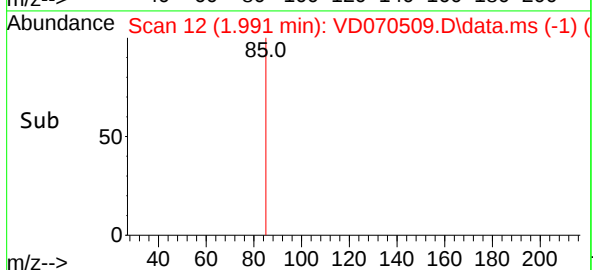
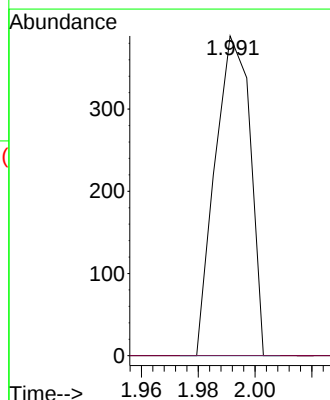
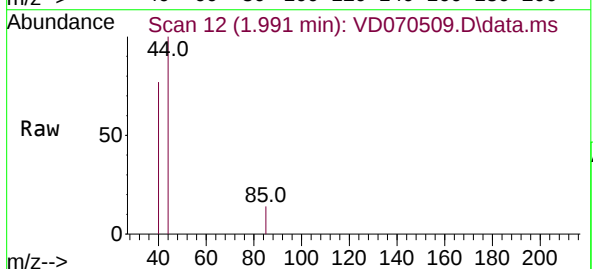
Acq: 28 Sep 2021 18:20

Tgt Ion: 85 Resp: 334

Ion Ratio Lower Upper

85 100

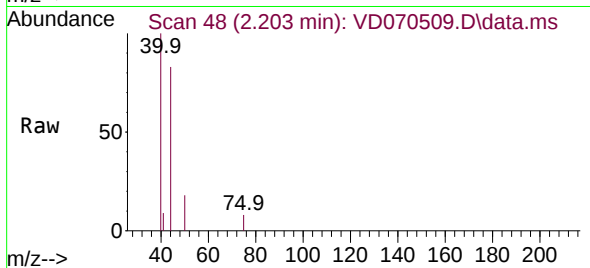
87 0.0 15.6 46.8#



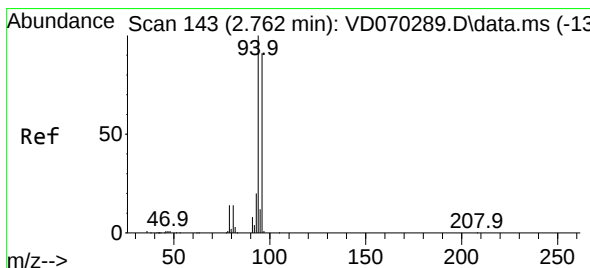
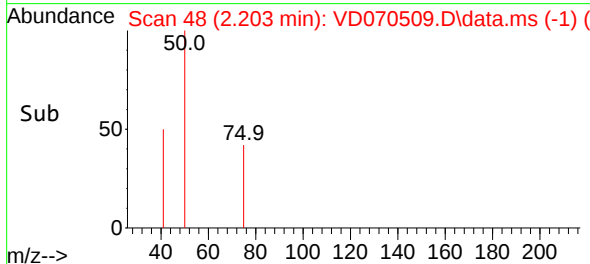
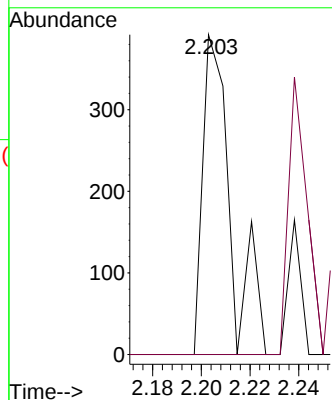


#3
Chloromethane
Concen: Below Cal
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

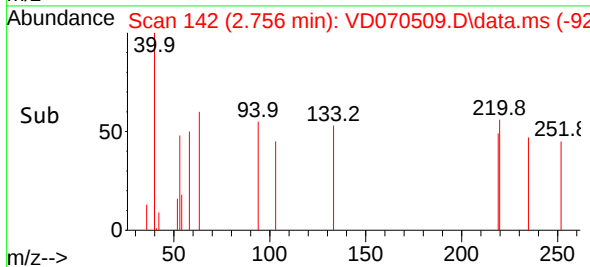
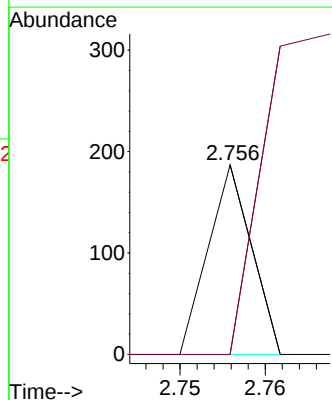
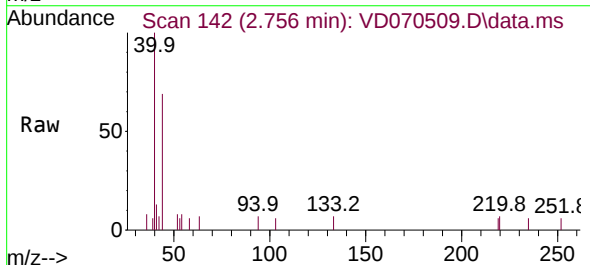


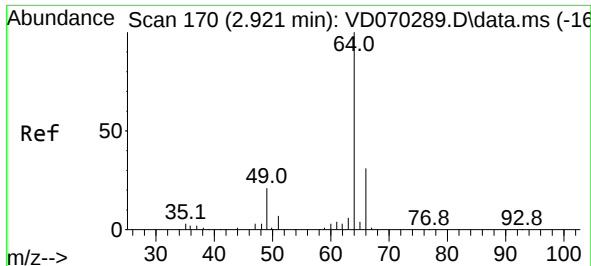
Tgt Ion: 50 Resp: 312
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#



#5
Bromomethane
Concen: Below Cal
RT: 2.756 min Scan# 142
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 94 Resp: 66
Ion Ratio Lower Upper
94 100
96 0.0 73.0 109.6#

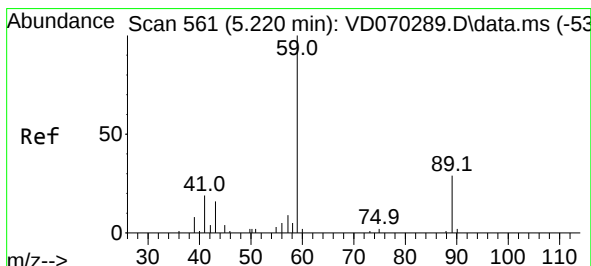
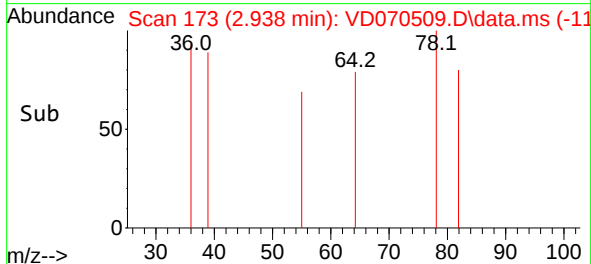
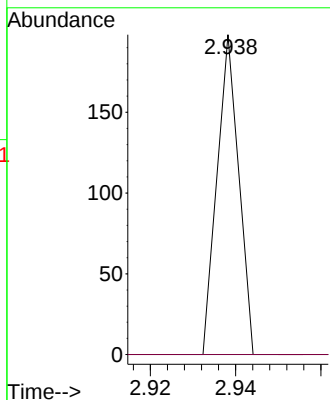
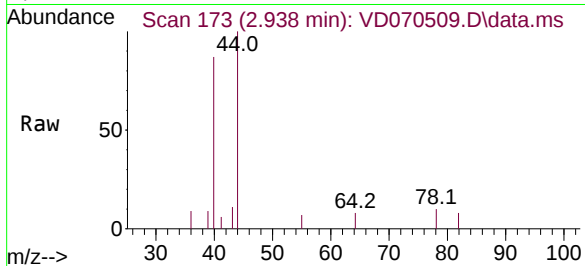




#6
Chloroethane
Concen: Below Cal
RT: 2.938 min Scan# 173
Delta R.T. 0.017 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

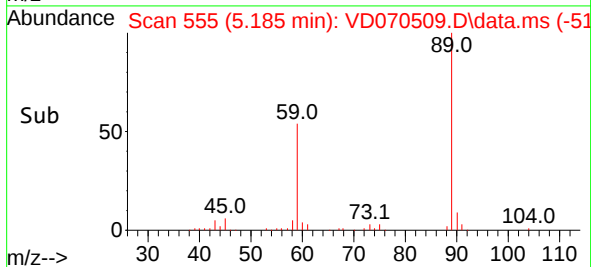
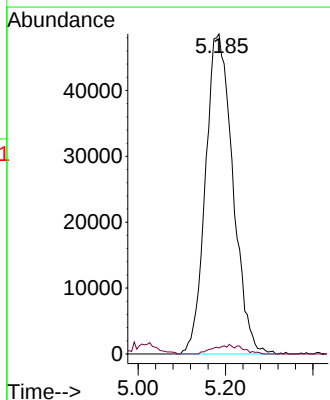
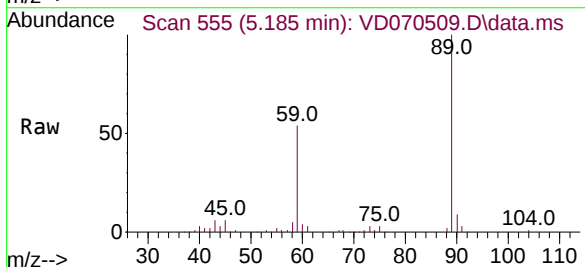
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

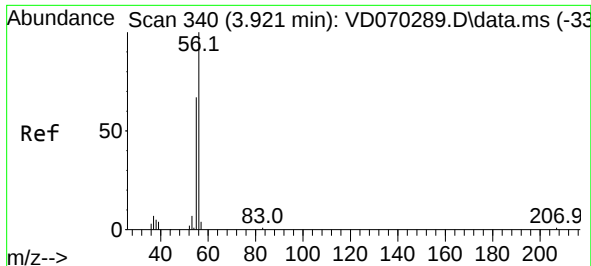
Tgt Ion: 64 Resp: 70
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#



#11
Tert butyl alcohol
Concen: 433.919 ug/l
RT: 5.185 min Scan# 555
Delta R.T. -0.035 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 59 Resp: 210897
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

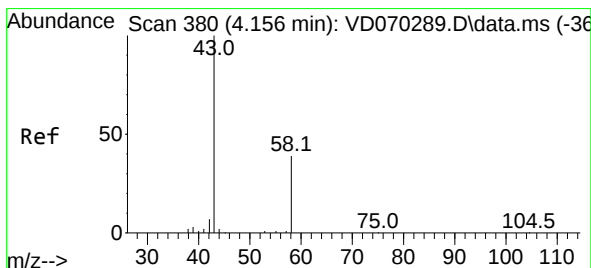
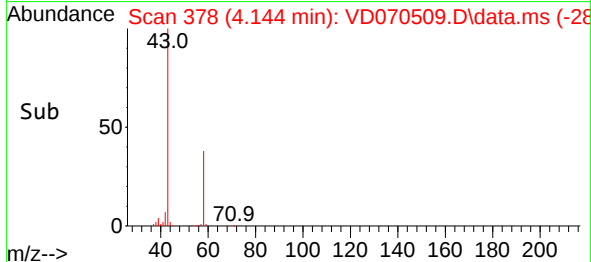
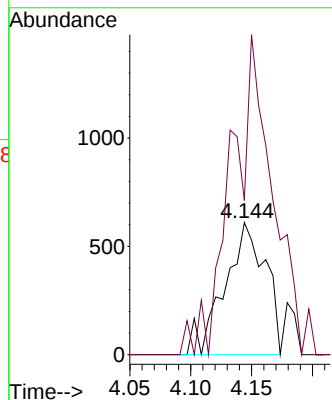
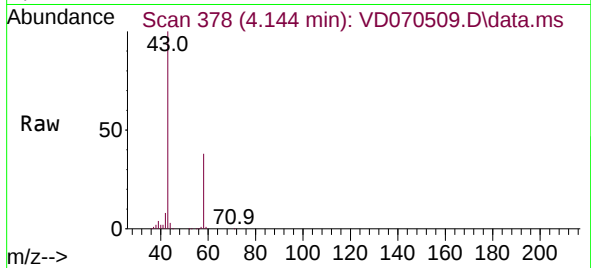




#13
Acrolein
Concen: 6.650 ug/l
RT: 4.144 min Scan# 378
Delta R.T. 0.224 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

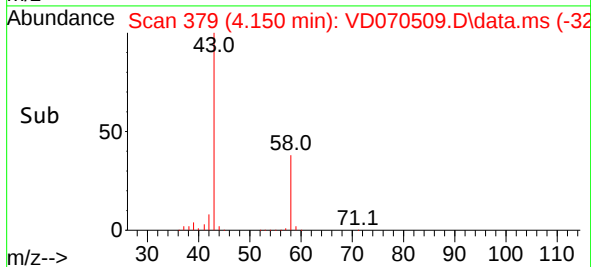
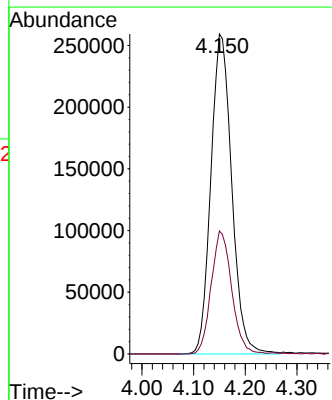
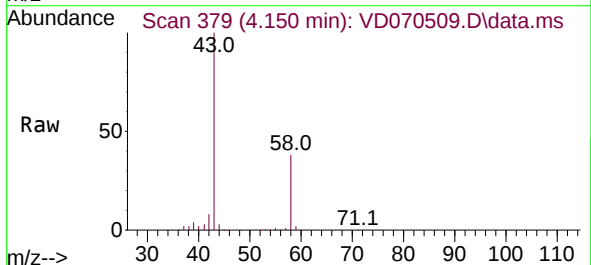
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

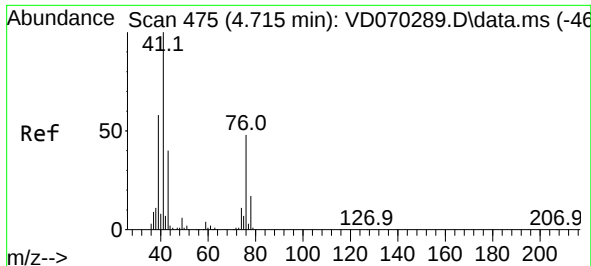
Tgt Ion: 56 Resp: 1421
Ion Ratio Lower Upper
56 100
55 243.4 54.2 81.2#



#16
Acetone
Concen: 947.836 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 43 Resp: 727409
Ion Ratio Lower Upper
43 100
58 38.4 30.9 46.3

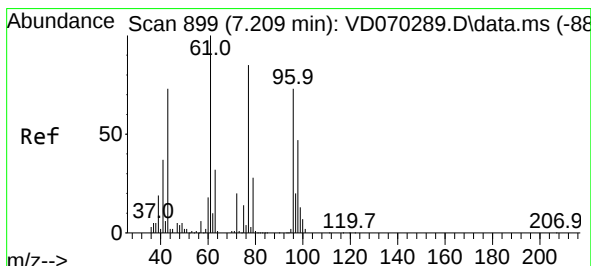
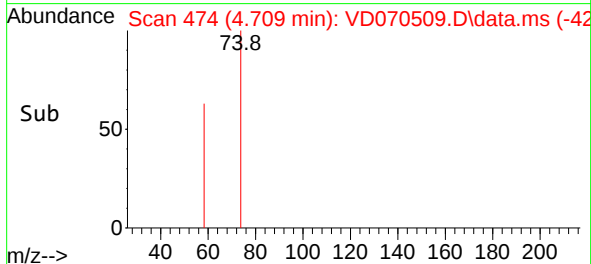
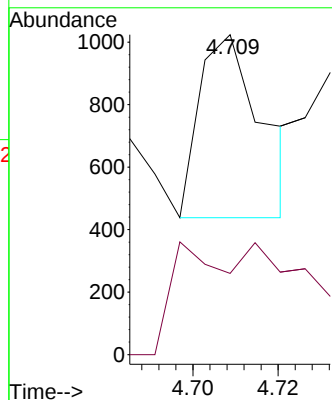
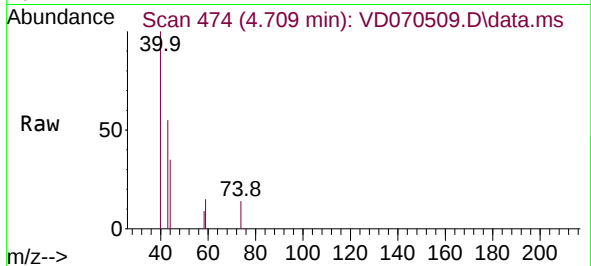




#18
Methyl Acetate
Concen: Below Cal
RT: 4.709 min Scan# 474
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

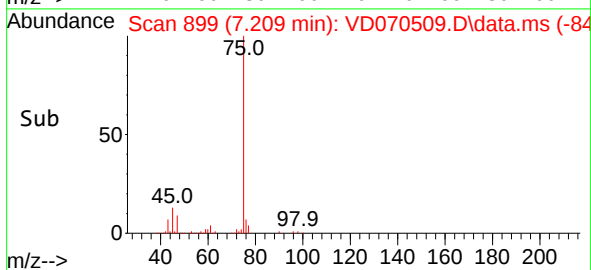
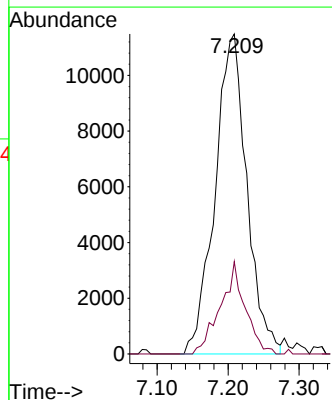
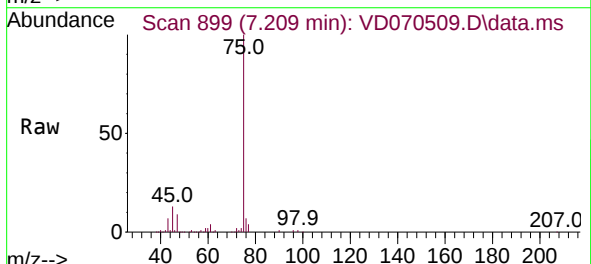
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

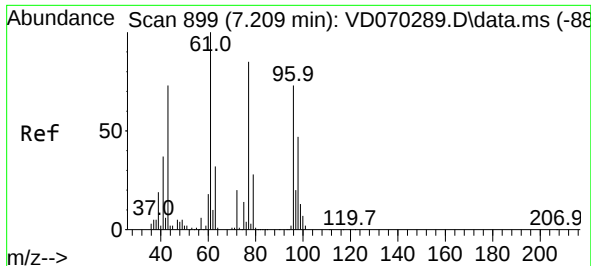
Tgt Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
74 53.8 21.6 32.4#



#25
2-Butanone
Concen: 35.030 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 43 Resp: 35786
Ion Ratio Lower Upper
43 100
72 28.9 22.2 33.4

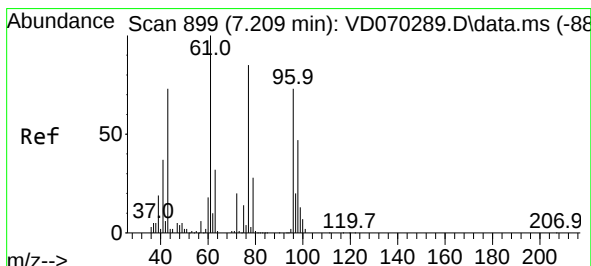
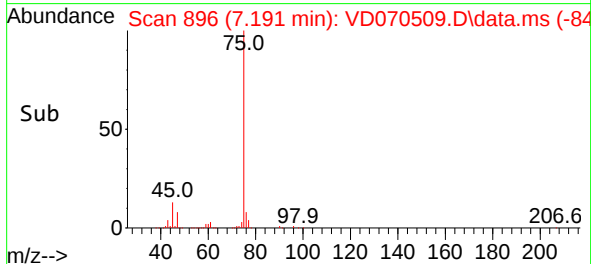
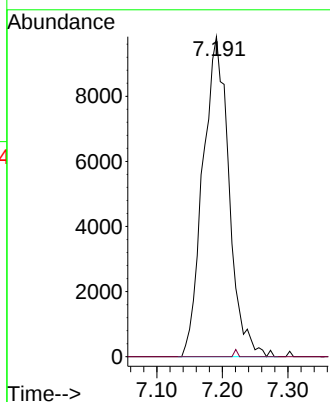
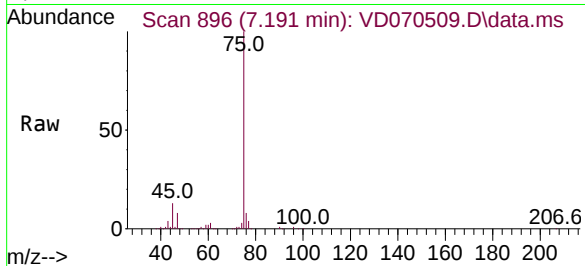




#26
2,2-Dichloropropane
Concen: 3.881 ug/l
RT: 7.191 min Scan# 896
Delta R.T. -0.018 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

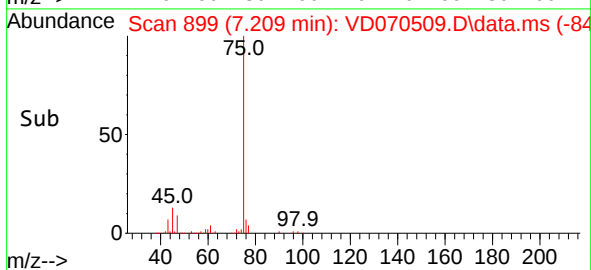
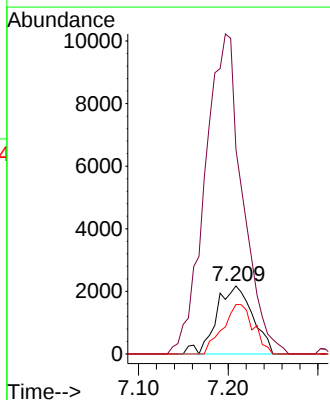
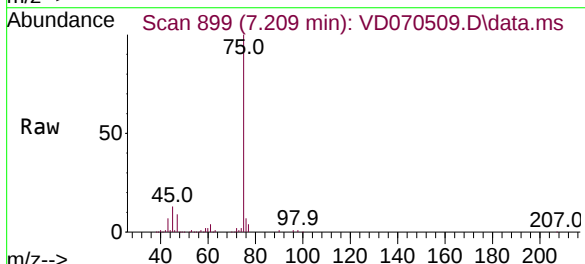
Instrument :
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SUB-SLAB-05(6-2.6)

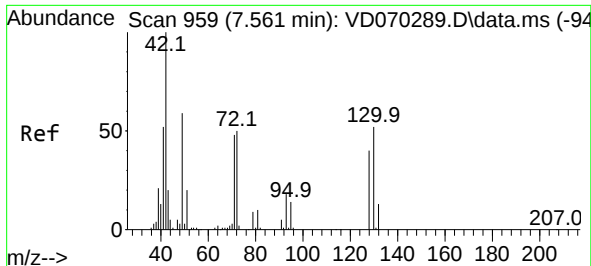
Tgt Ion: 77 Resp: 27209
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.9#



#27
cis-1,2-Dichloroethene
Concen: 1.221 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 96 Resp: 6085
Ion Ratio Lower Upper
96 100
61 485.6 0.0 277.4#
98 61.3 0.0 130.0





#29

Tetrahydrofuran

Concen: 1.612 ug/l

RT: 7.567 min Scan# 960

Delta R.T. 0.006 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

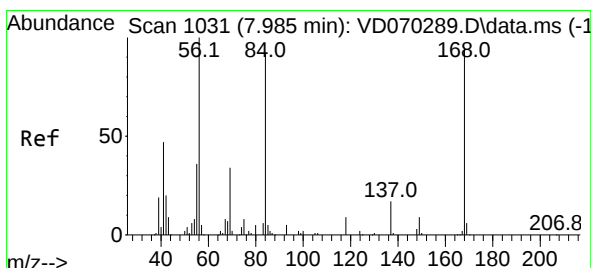
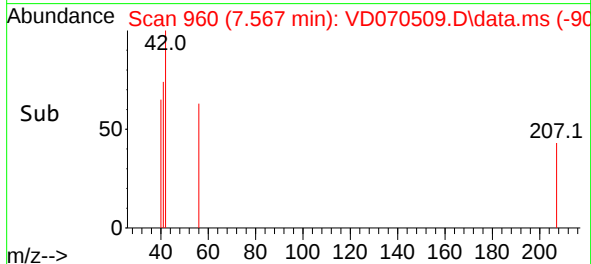
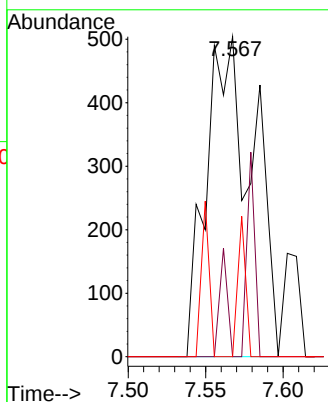
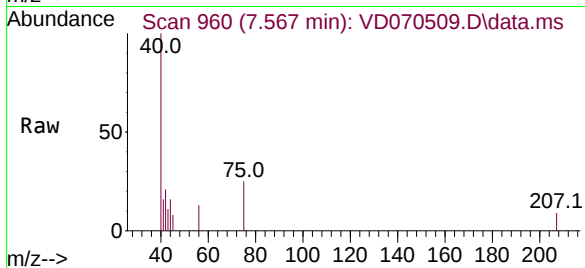
Instrument :

MSVOA_D

ClientSampleId :

SUB-SLAB-05(6-2.6)

Tgt Ion:	42	Resp:	1057
Ion	Ratio	Lower	Upper
42	100		
72	5.7	38.8	58.2#
71	8.1	37.8	56.6#



#31

Cyclohexane

Concen: 1.277 ug/l

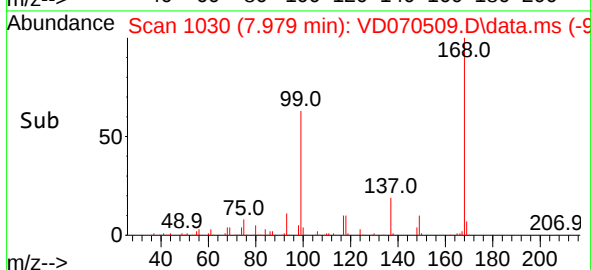
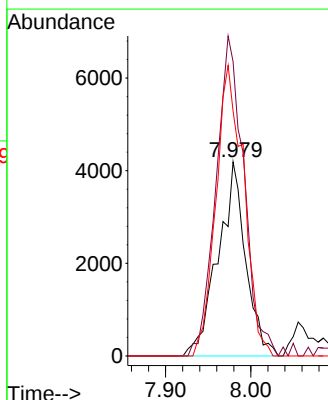
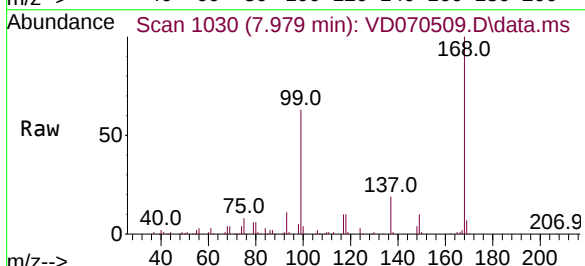
RT: 7.979 min Scan# 1030

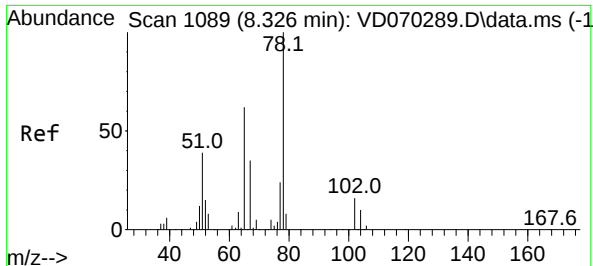
Delta R.T. -0.006 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

Tgt Ion:	56	Resp:	9458
Ion	Ratio	Lower	Upper
56	100		
69	151.6	26.9	40.3#
84	126.1	73.6	110.4#

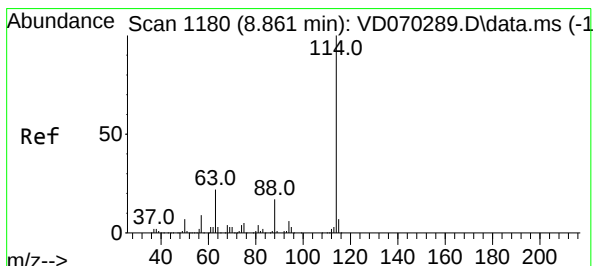
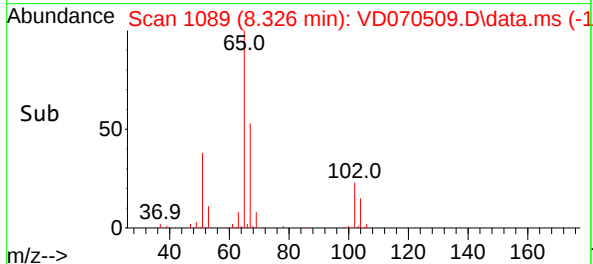
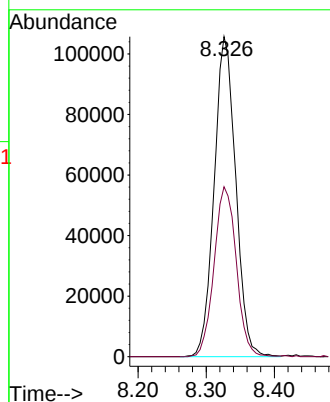
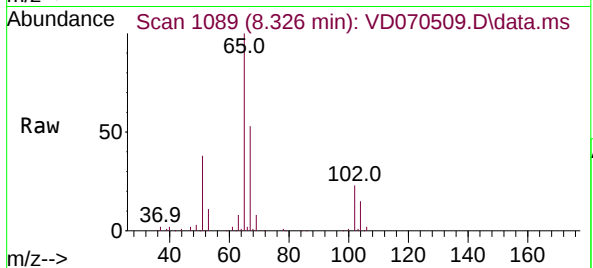




#33
1,2-Dichloroethane-d4
Concen: 54.136 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

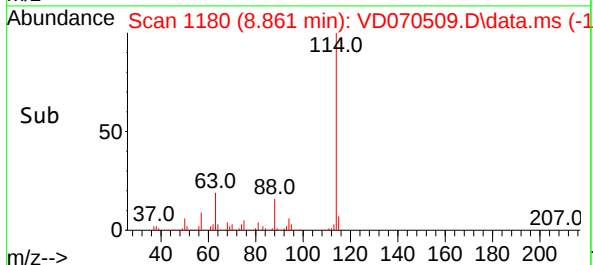
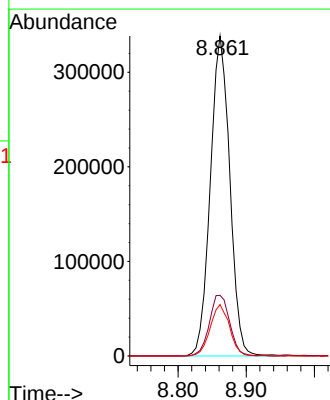
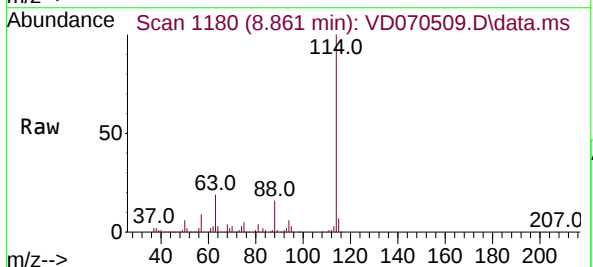
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

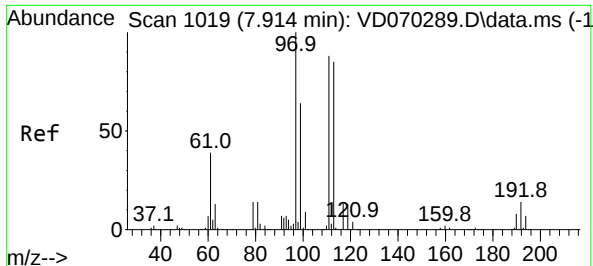
Tgt Ion: 65 Resp: 232706
Ion Ratio Lower Upper
65 100
67 54.6 0.0 111.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 114 Resp: 671591
Ion Ratio Lower Upper
114 100
63 19.0 0.0 43.4
88 16.0 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.115 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

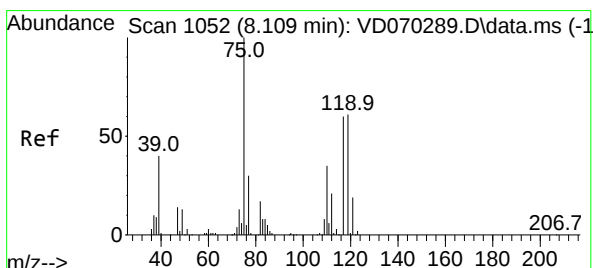
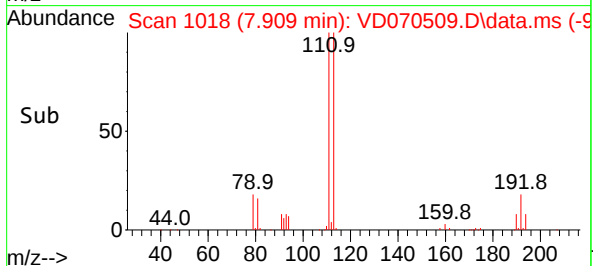
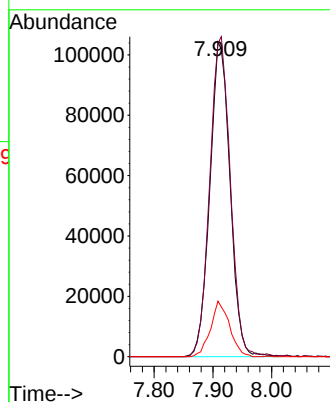
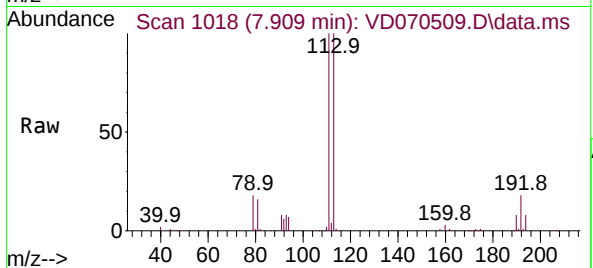
Tgt Ion:	113	Resp:	249135
Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.2
192	16.6	13.0	19.6

Instrument :

MSVOA_D

ClientSampleId :

SUB-SLAB-05(6-2.6)



#36

1,1-Dichloropropene

Concen: 4.250 ug/l

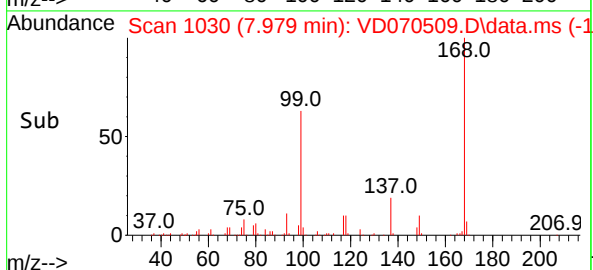
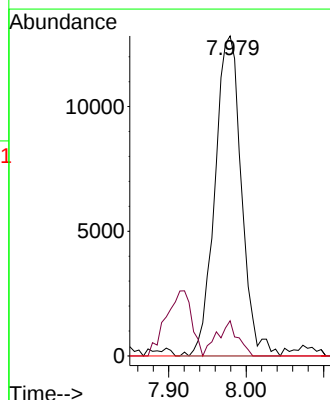
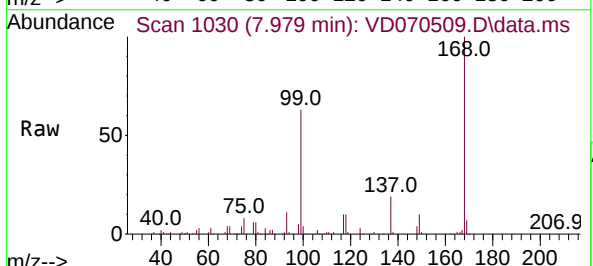
RT: 7.979 min Scan# 1030

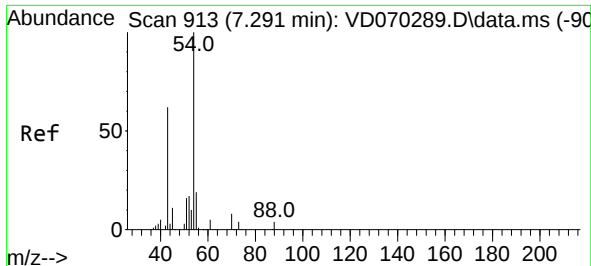
Delta R.T. -0.129 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

Tgt Ion:	75	Resp:	30512
Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.9	53.7#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 13.332 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.082 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

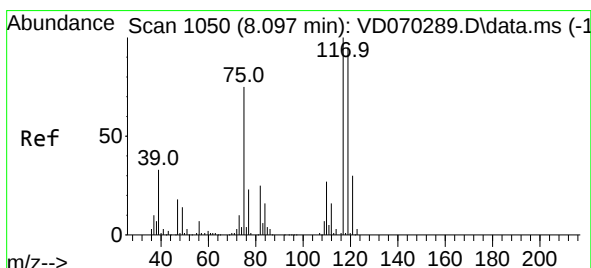
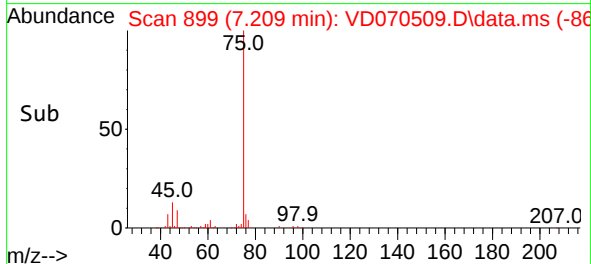
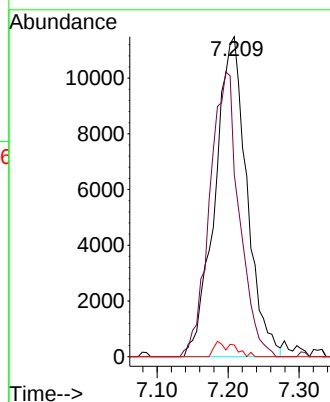
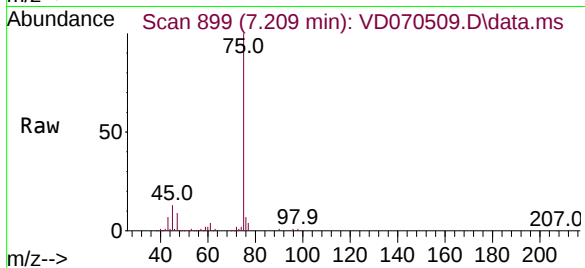
Instrument :

MSVOA_D

ClientSampleId :

SUB-SLAB-05(6-2.6)

Tgt Ion:	43	Resp:	35786
Ion	Ratio	Lower	Upper
43	100		
61	82.6	13.0	19.6#
70	0.0	9.8	14.6#



#38

Carbon Tetrachloride

Concen: 5.087 ug/l

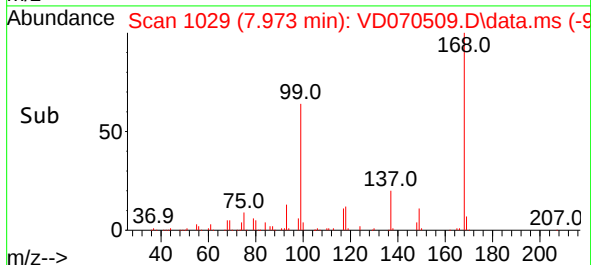
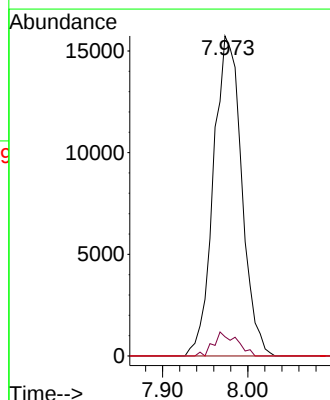
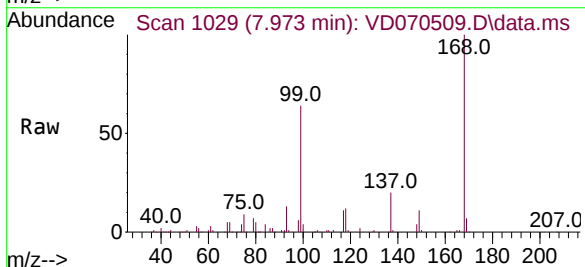
RT: 7.973 min Scan# 1029

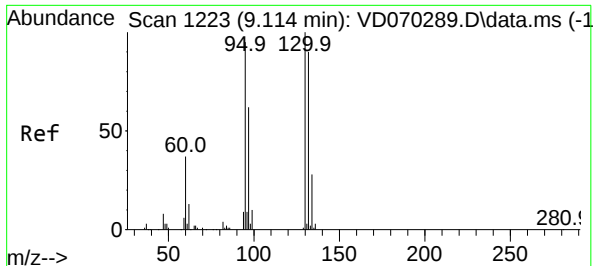
Delta R.T. -0.124 min

Lab File: VD070509.D

Acq: 28 Sep 2021 18:20

Tgt Ion:	117	Resp:	36118
Ion	Ratio	Lower	Upper
117	100		
119	6.0	76.1	114.1#
121	0.0	23.8	35.6#

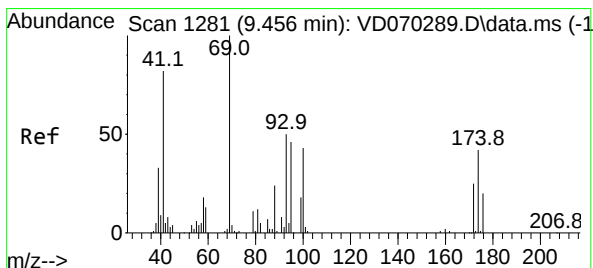
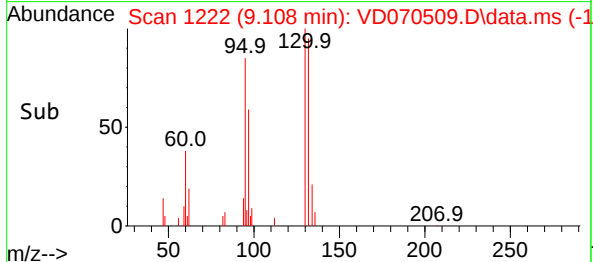
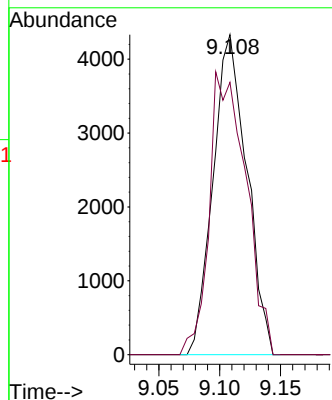
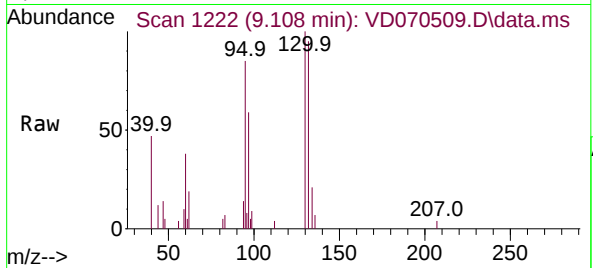




#44
Trichloroethene
Concen: 1.661 ug/l
RT: 9.108 min Scan# 1222
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

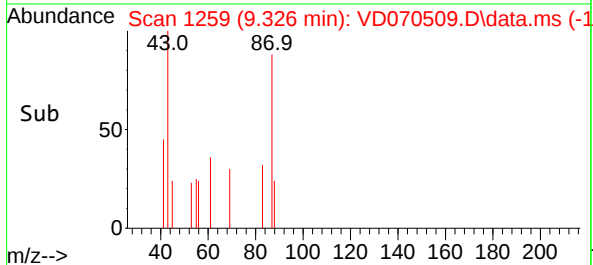
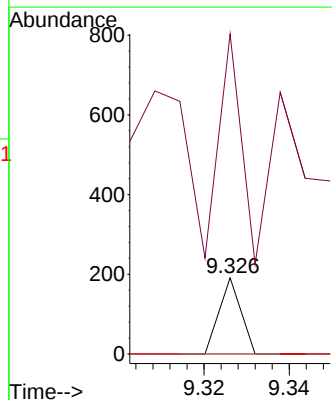
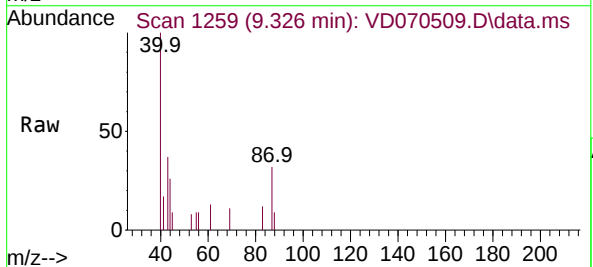
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

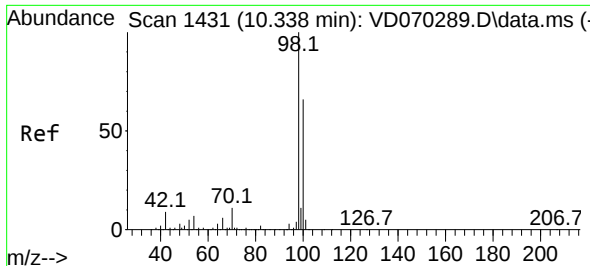
Tgt Ion:130 Resp: 8350
Ion Ratio Lower Upper
130 100
95 85.1 0.0 190.0



#49
1,4-Dioxane
Concen: 2.354 ug/l
RT: 9.326 min Scan# 1259
Delta R.T. -0.129 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 328.4 22.4 33.6#
58 0.0 54.2 81.4#

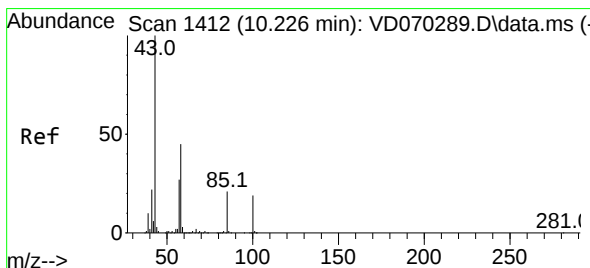
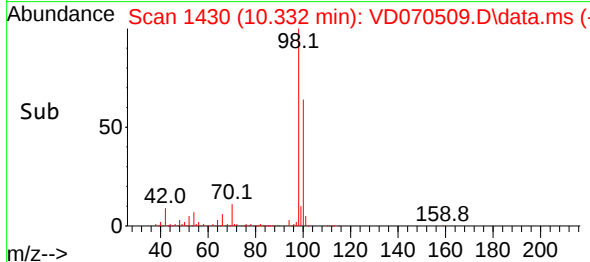
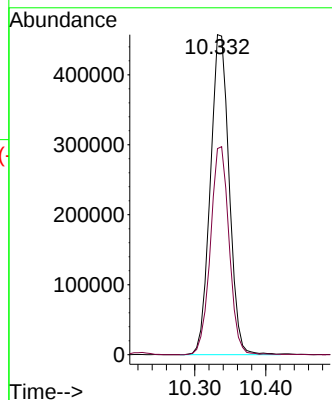
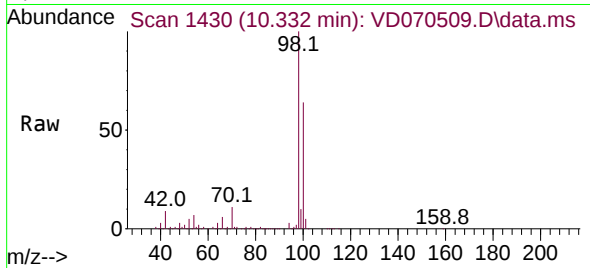




#50
Toluene-d8
Concen: 48.378 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

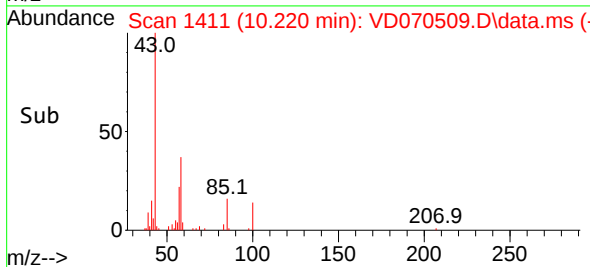
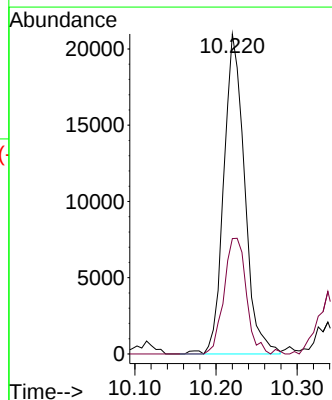
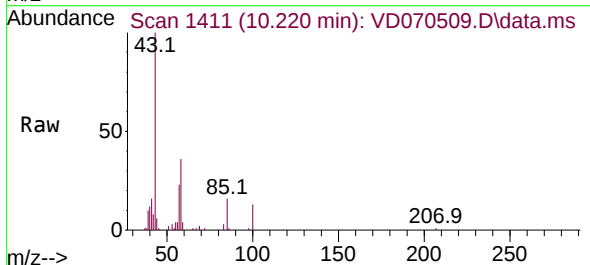
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

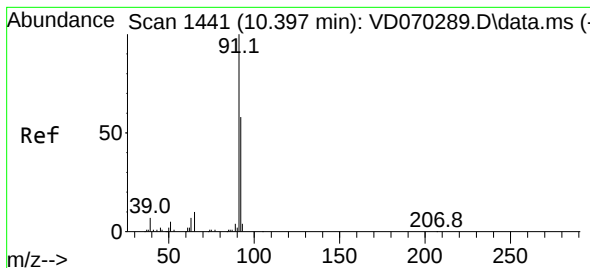
Tgt Ion: 98 Resp: 839692
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 14.575 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 43 Resp: 37433
Ion Ratio Lower Upper
43 100
58 38.5 35.4 53.2





#52

Toluene

Concen: 2.665 ug/l

RT: 10.397 min Scan# 1441

Delta R.T. -0.000 min

Lab File: VD070509.D

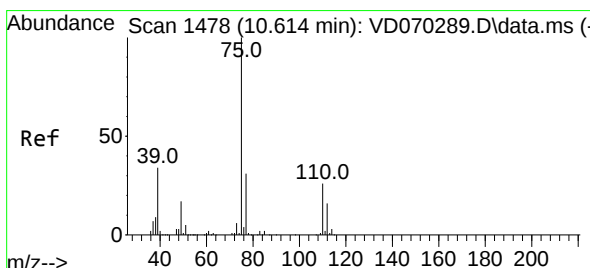
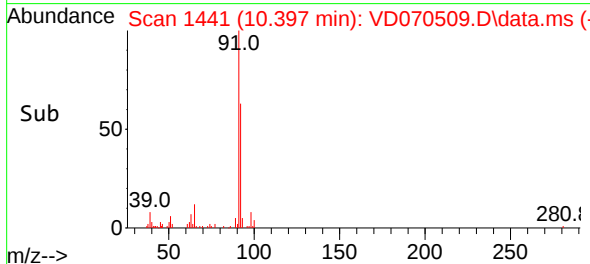
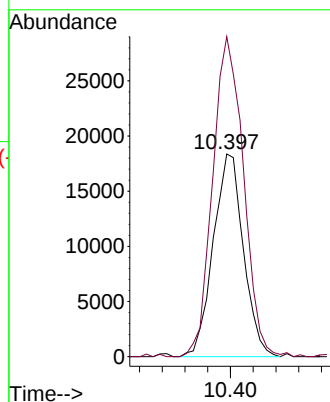
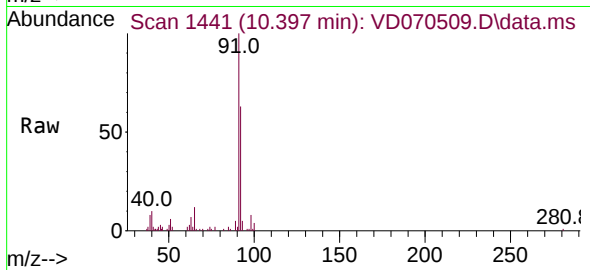
Acq: 28 Sep 2021 18:20

Tgt Ion: 92 Resp: 33871

Ion Ratio Lower Upper

92 100

91 161.3 136.2 204.2



#53

t-1,3-Dichloropropene

Concen: 1.423 ug/l

RT: 10.720 min Scan# 1496

Delta R.T. 0.106 min

Lab File: VD070509.D

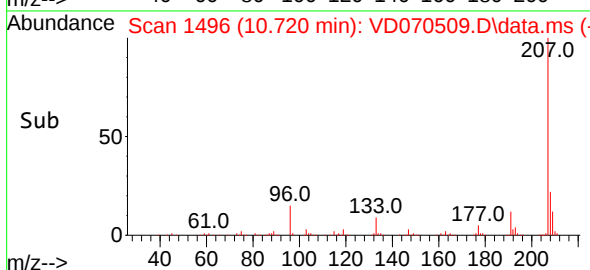
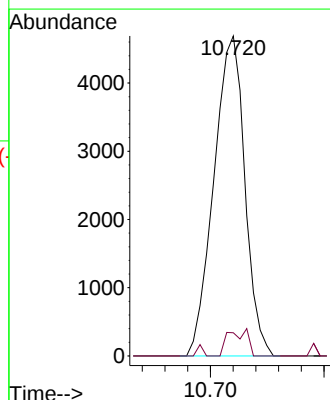
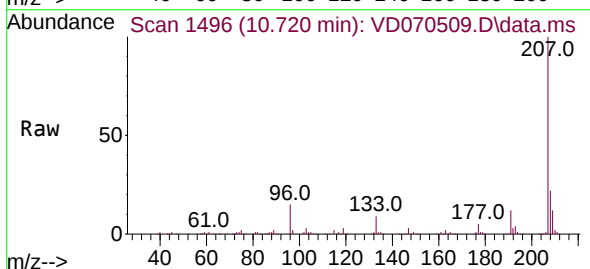
Acq: 28 Sep 2021 18:20

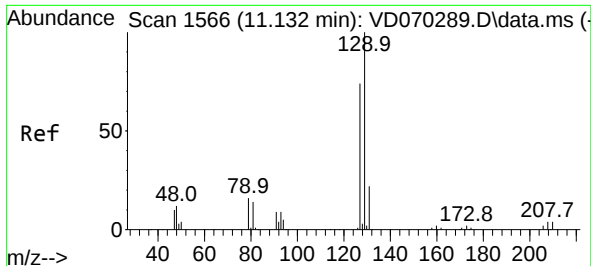
Tgt Ion: 75 Resp: 8874

Ion Ratio Lower Upper

75 100

77 7.2 24.6 37.0#

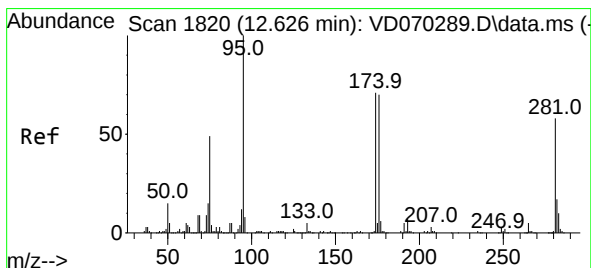
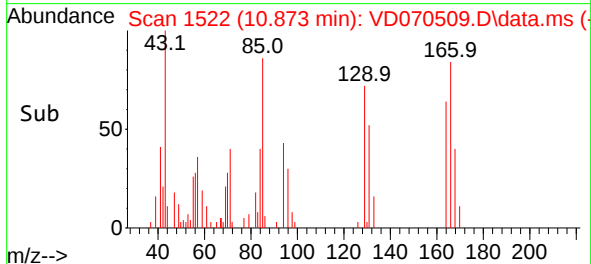
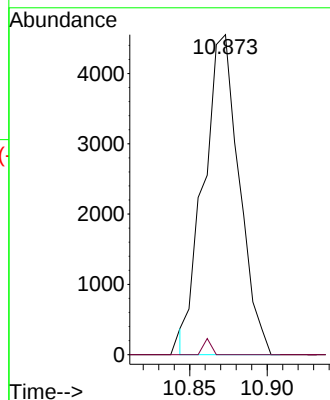
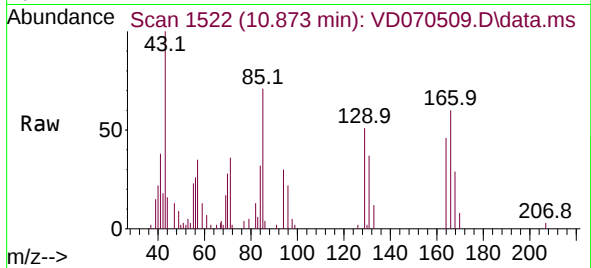




#60
Dibromochloromethane
Concen: 1.591 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.259 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

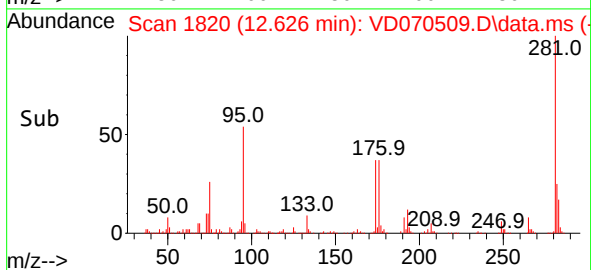
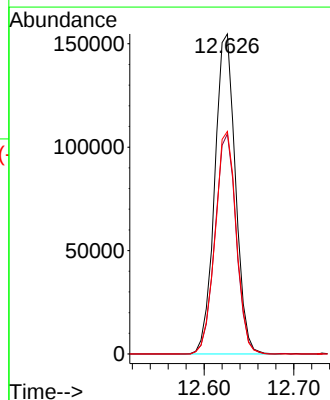
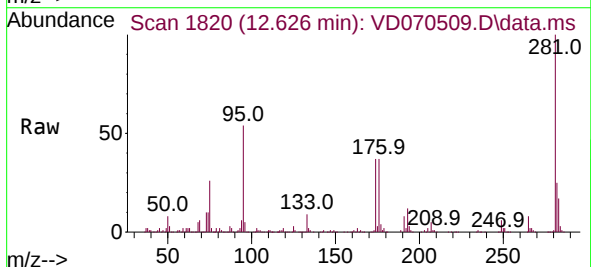
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

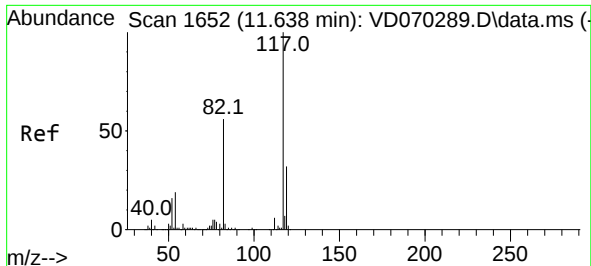
Tgt Ion:129 Resp: 7241
Ion Ratio Lower Upper
129 100
127 1.1 38.0 114.0#



#62
4-Bromofluorobenzene
Concen: 40.899 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 95 Resp: 248093
Ion Ratio Lower Upper
95 100
174 70.0 0.0 140.6
176 71.0 0.0 137.4

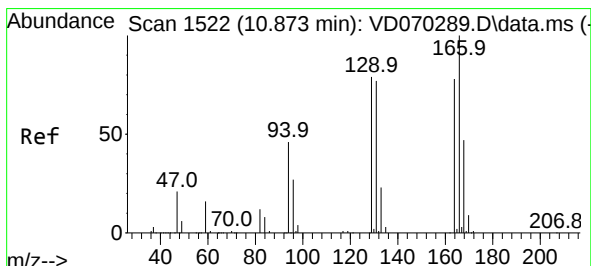
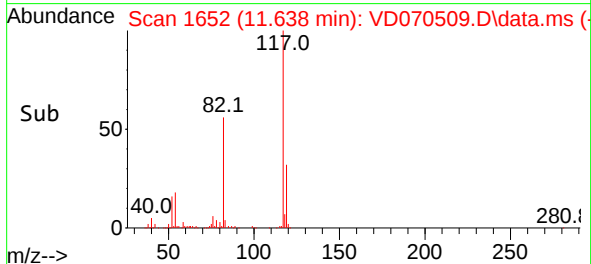
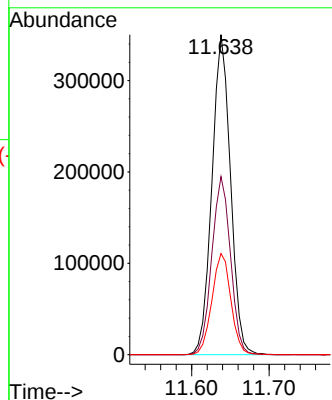
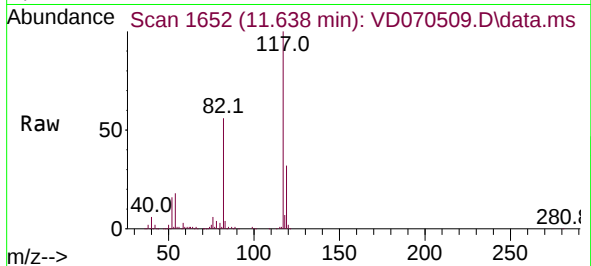




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

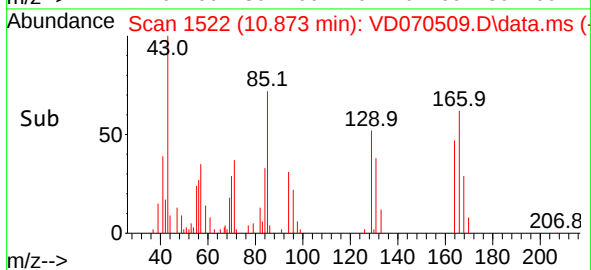
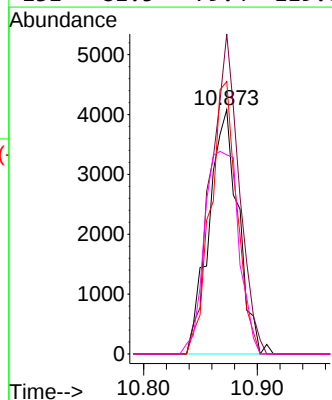
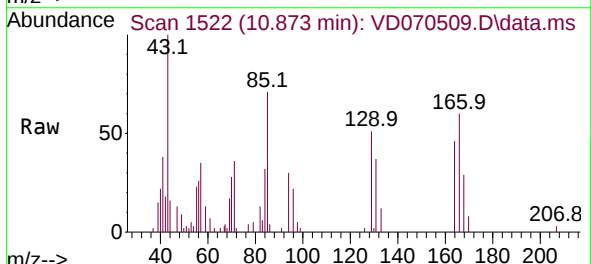
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

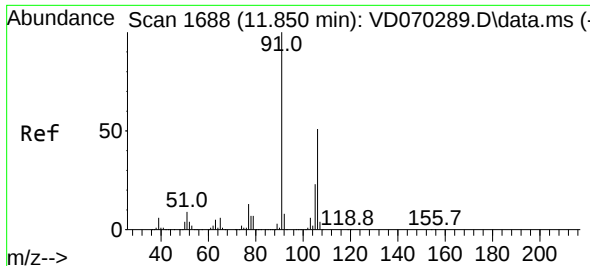
Tgt Ion:	117	Resp:	582884
Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.0	67.4
119	31.6	25.2	37.8



#64
Tetrachloroethene
Concen: 2.069 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. 0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion:	164	Resp:	7341
Ion	Ratio	Lower	Upper
164	100		
166	131.0	102.4	153.6
129	111.5	80.9	121.3
131	81.5	79.4	119.0

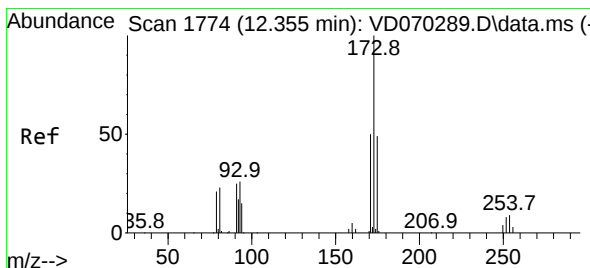
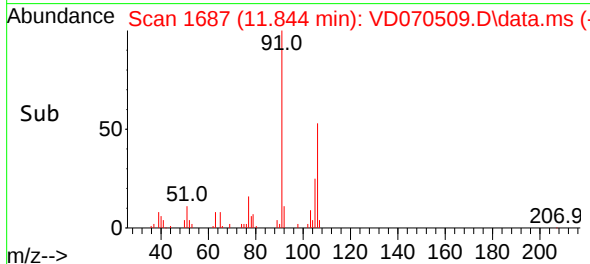
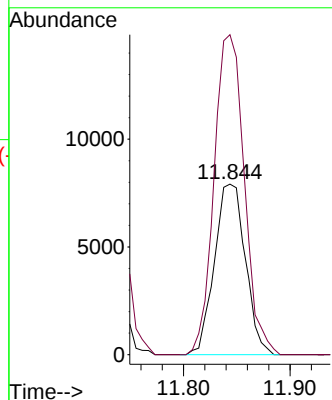
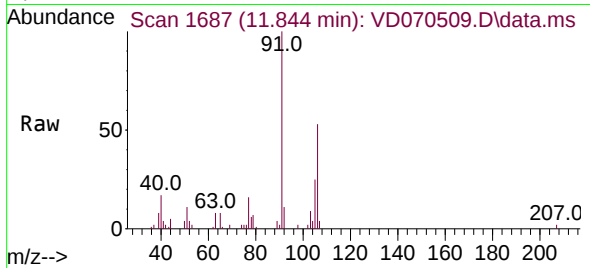




#68
m/p-Xylenes
Concen: 1.984 ug/l
RT: 11.844 min Scan# 1687
Delta R.T. -0.006 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

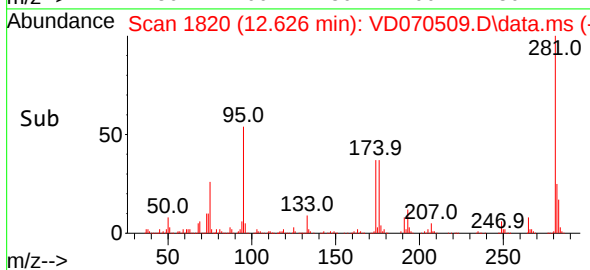
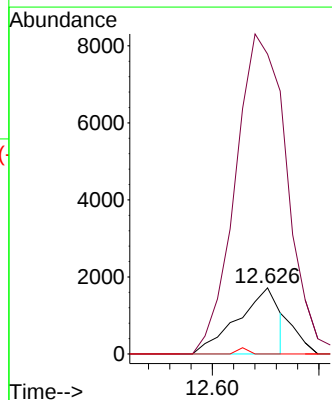
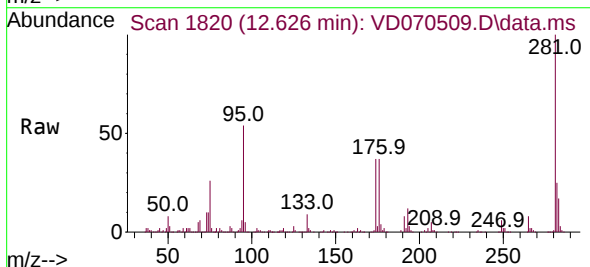
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

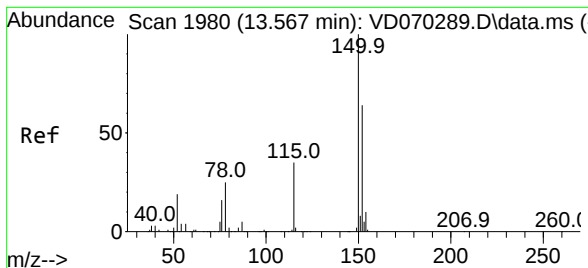
Tgt Ion:106 Resp: 15959
Ion Ratio Lower Upper
106 100
91 183.1 161.2 241.8



#71
Bromoform
Concen: 1.065 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion:173 Resp: 2328
Ion Ratio Lower Upper
173 100
175 522.2 25.1 75.2#
254 2.4 0.1 0.1#

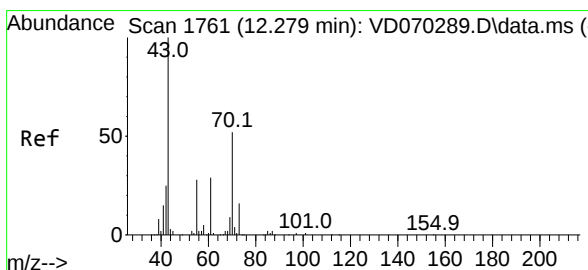
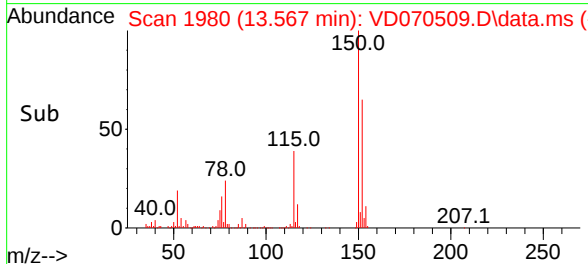
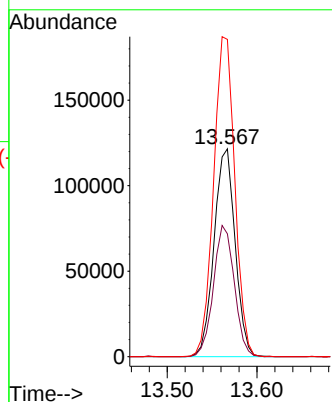
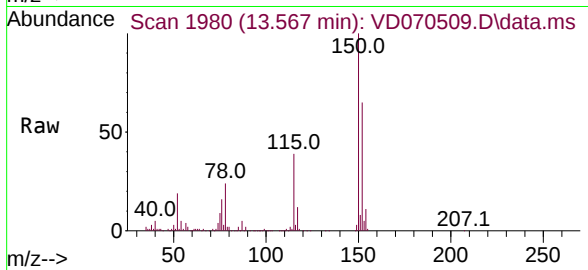




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

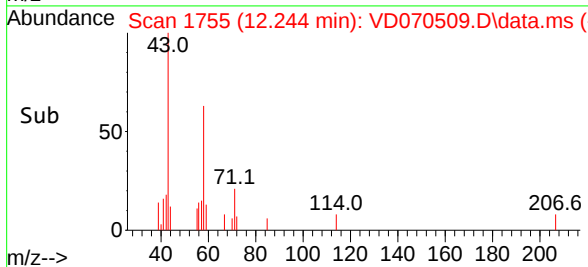
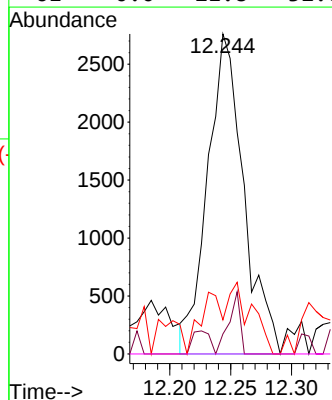
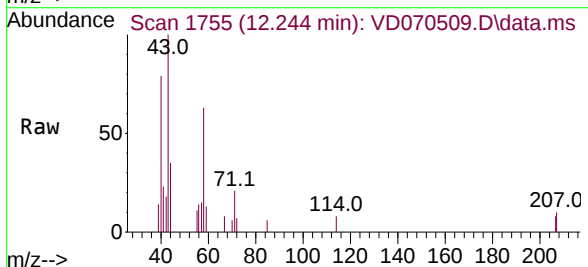
Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

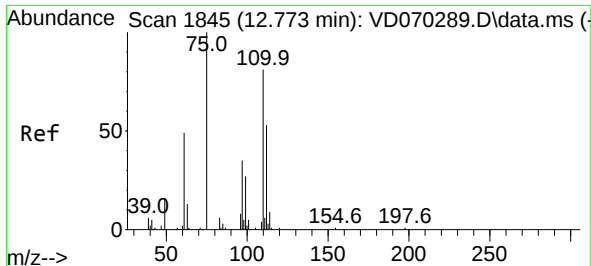
Tgt Ion:152 Resp: 198631
Ion Ratio Lower Upper
152 100
115 62.5 32.1 96.3
150 154.6 0.0 350.6



#74
N-ethyl acetate
Concen: 1.873 ug/l
RT: 12.244 min Scan# 1755
Delta R.T. -0.035 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 43 Resp: 5684
Ion Ratio Lower Upper
43 100
70 6.1 41.4 62.0#
55 14.5 22.8 34.2#
61 0.0 21.8 32.6#

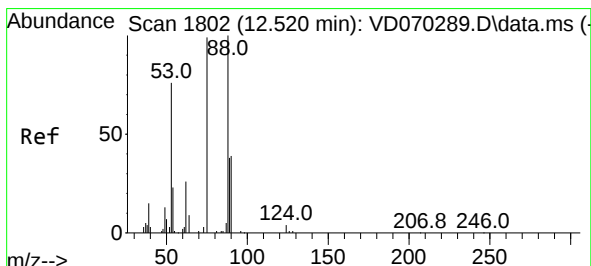
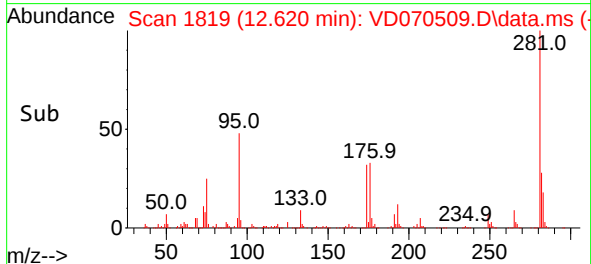
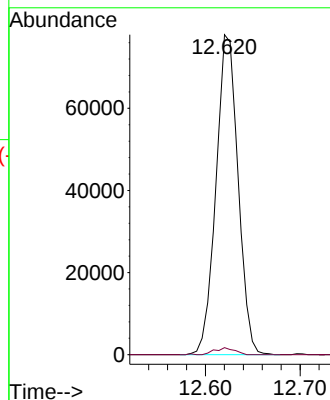
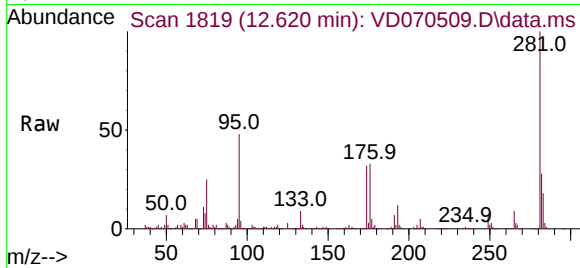




#76
1,2,3-Trichloropropane
Concen: 62.877 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :
SUB-SLAB-05(6-2.6)

Tgt Ion: 75 Resp: 126331
Ion Ratio Lower Upper
75 100
77 2.0 174.9 524.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 157.544 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD070509.D
Acq: 28 Sep 2021 18:20

Tgt Ion: 75 Resp: 126331
Ion Ratio Lower Upper
75 100
53 0.2 64.2 96.2#
89 2.3 35.6 53.4#

