

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071621\
 Data File : VD069736.D
 Acq On : 16 Jul 2021 20:25
 Operator : VA/SY
 Sample : M3056-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 17 00:56:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

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

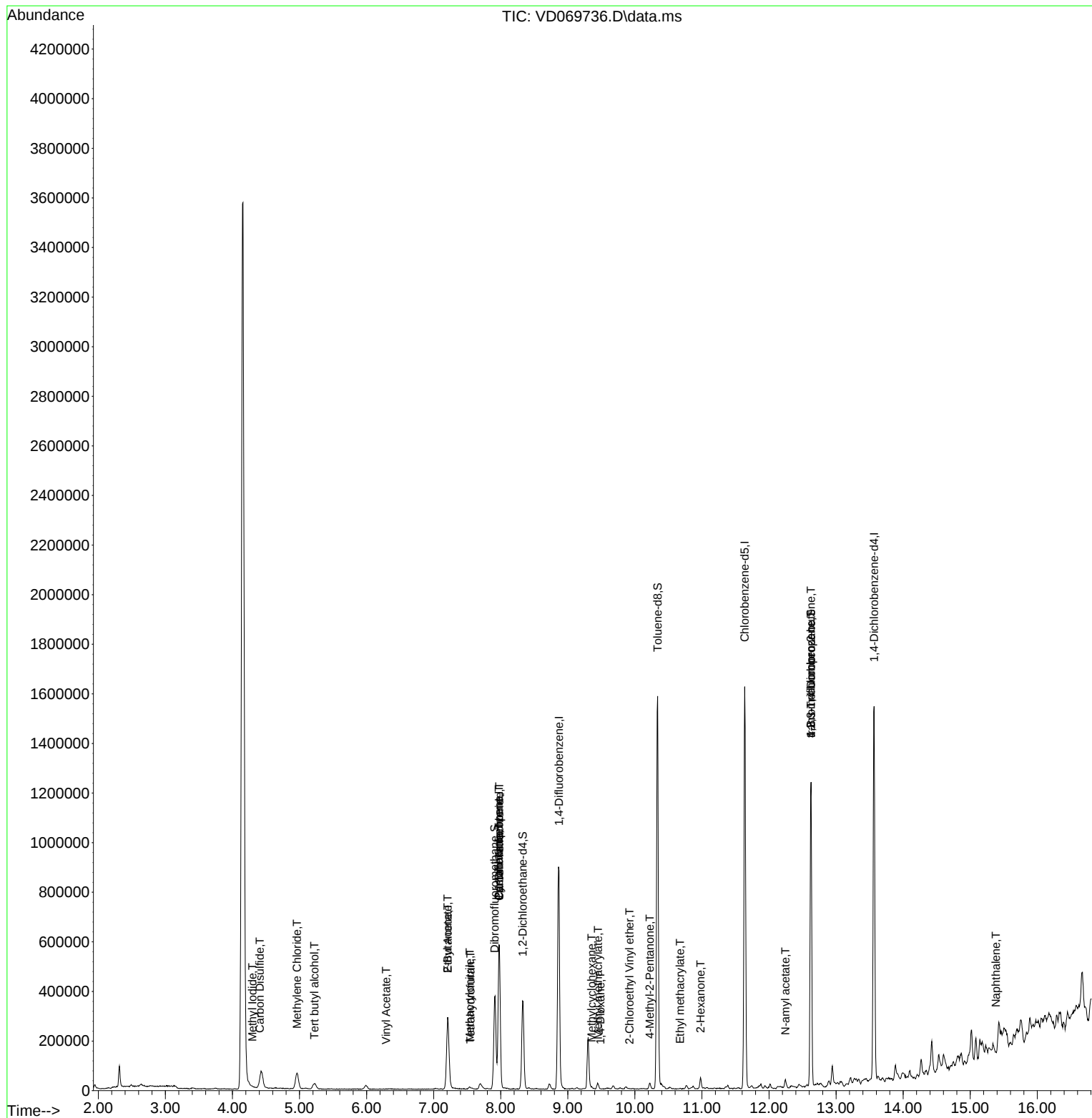
Internal Standards						
1) Pentafluorobenzene	7.973	168	405791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	780388	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	948829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	404111	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	283643	55.980	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.960%	
35) Dibromofluoromethane	7.908	113	278652	53.224	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.440%	
50) Toluene-d8	10.338	98	1089356	53.558	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 107.120%	
62) 4-Bromofluorobenzene	12.626	95	437947	64.560	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 129.120%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.779	94	2909	Below Cal		88
10) Methyl Iodide	4.297	142	736	2.607 ug/l	#	82
11) Tert butyl alcohol	5.220	59	38111	56.297 ug/l	#	88
16) Acetone	4.150	43	6264288	Below Cal		100
17) Carbon Disulfide	4.409	76	39463	2.940 ug/l		99
18) Methyl Acetate	4.709	43	1352	Below Cal	#	49
20) Methylene Chloride	4.962	84	52573	2.807 ug/l		97
23) Vinyl Acetate	6.291	43	61	15.432 ug/l	#	72
25) 2-Butanone	7.208	43	454418	379.462 ug/l		100
29) Tetrahydrofuran	7.550	42	1250	1.685 ug/l	#	69
31) Cyclohexane	7.973	56	11021	1.672 ug/l	#	9
36) 1,1-Dichloropropene	7.973	75	38014	4.722 ug/l	#	49
37) Ethyl Acetate	7.208	43	454418	149.214 ug/l	#	68
38) Carbon Tetrachloride	7.979	117	44675	6.060 ug/l	#	17
39) Methylcyclohexane	9.355	83	1570	2.115 ug/l		92
41) Methacrylonitrile	7.538	41	2141	1.357 ug/l	#	22
48) Methyl methacrylate	9.450	41	1551	1.626 ug/l	#	34
49) 1,4-Dioxane	9.485	88	68	102.885 ug/l	#	20
51) 4-Methyl-2-Pentanone	10.220	43	13396	4.638 ug/l		96
56) Ethyl methacrylate	10.673	69	132	1.689 ug/l	#	1
58) 2-Chloroethyl Vinyl ether	9.920	63	235	9.456 ug/l	#	49
59) 2-Hexanone	10.979	43	29102	15.118 ug/l		83
74) N-amyl acetate	12.244	43	21654	3.463 ug/l	#	52
76) 1,2,3-Trichloropropane	12.626	75	214302	54.588 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.626	75	214302	146.702 ug/l	#	15
95) Naphthalene	15.385	128	3739	2.485 ug/l	#	75

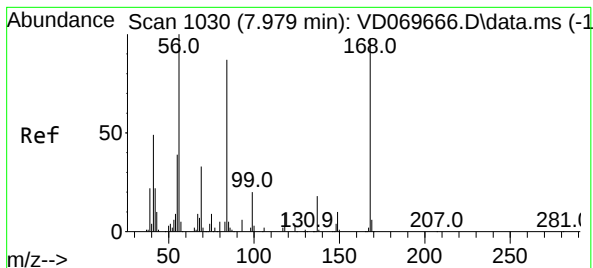
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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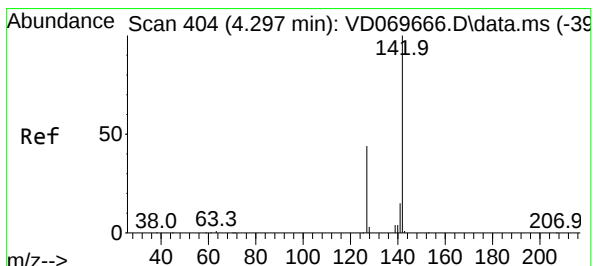
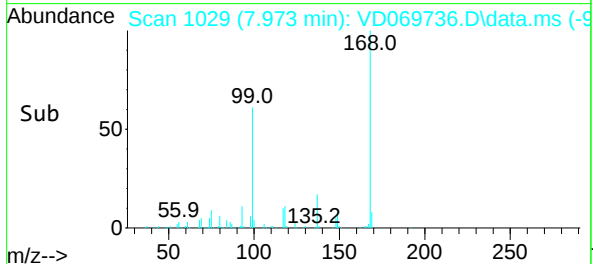
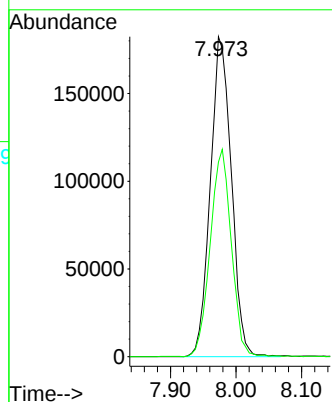
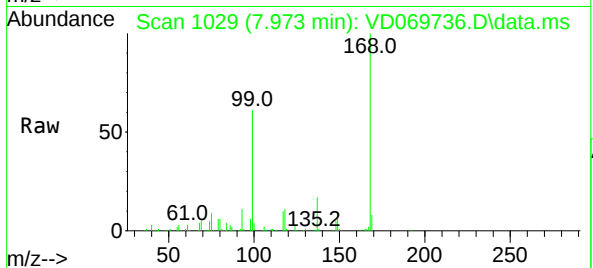




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

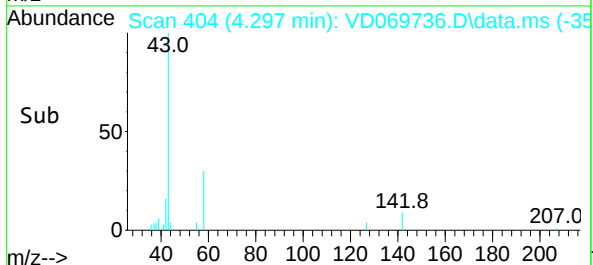
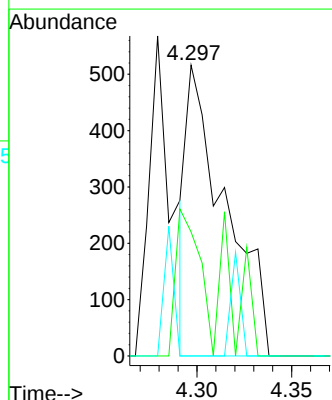
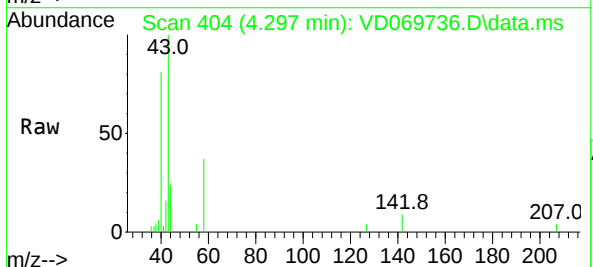
Instrument :
MSVOA_D
ClientSampleId :

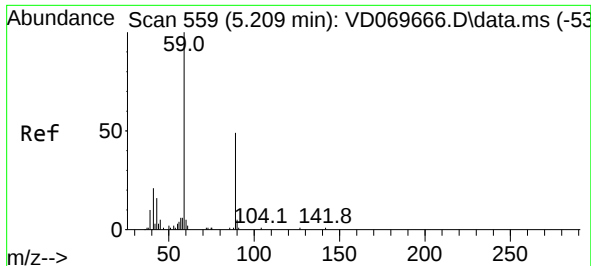
Tgt Ion:168 Resp: 405791
Ion Ratio Lower Upper
168 100
99 60.7 51.8 77.6



#10
Methyl Iodide
Concen: 2.607 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion:142 Resp: 736
Ion Ratio Lower Upper
142 100
127 31.0 36.1 54.1#
141 11.0 11.6 17.4#

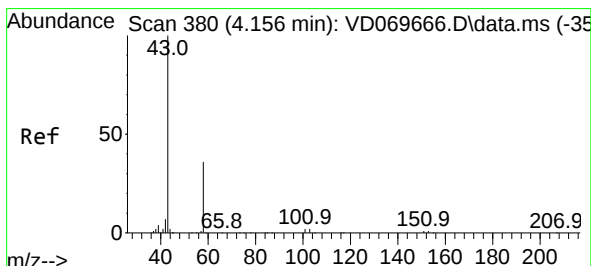
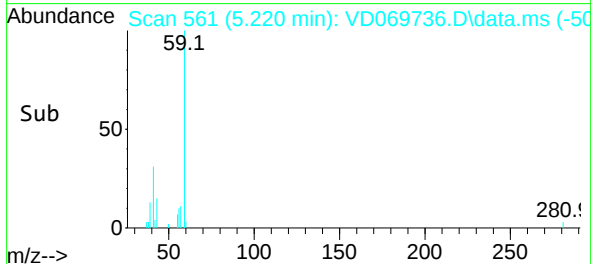
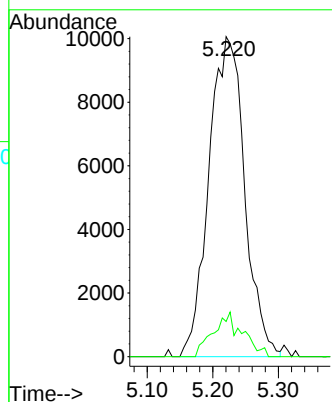
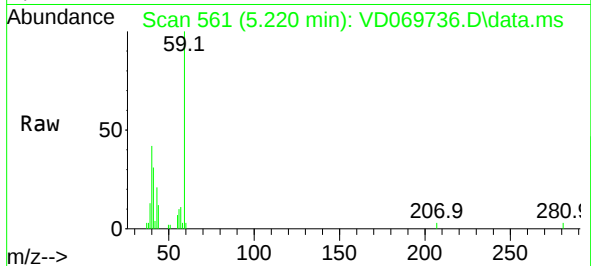




#11
Tert butyl alcohol
Concen: 56.297 ug/l
RT: 5.220 min Scan# 561
Delta R.T. 0.011 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

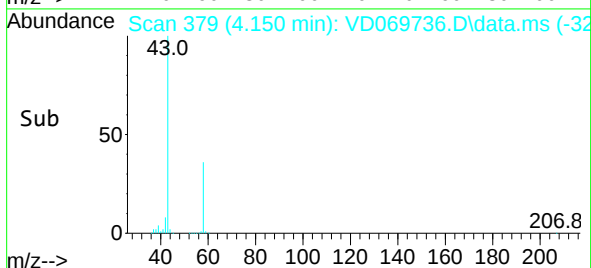
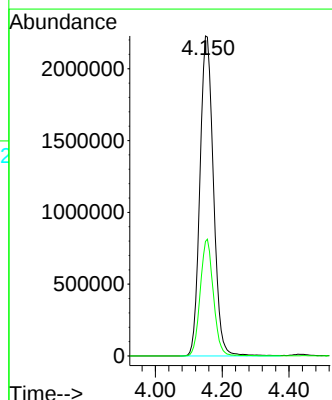
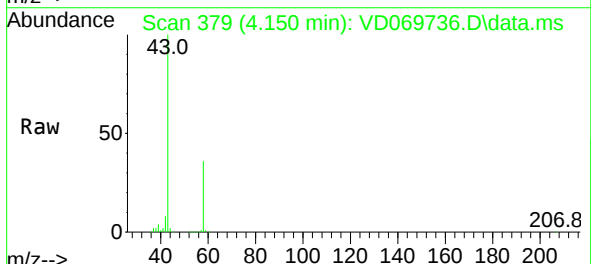
Instrument :
MSVOA_D
ClientSampled :

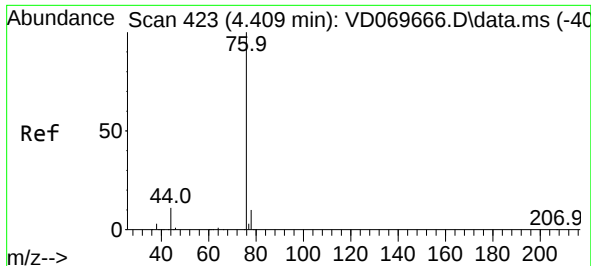
Tgt Ion: 59 Resp: 38111
Ion Ratio Lower Upper
59 100
57 11.4 5.7 8.5#



#16
Acetone
Concen: Below Cal
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

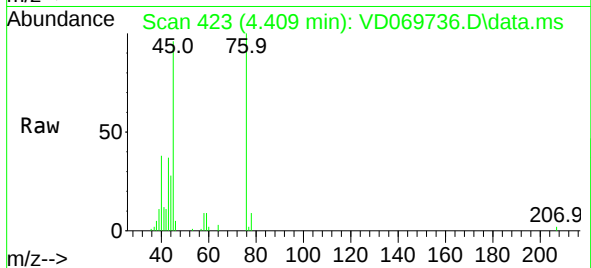
Tgt Ion: 43 Resp: 6264288
Ion Ratio Lower Upper
43 100
58 35.8 28.6 42.8



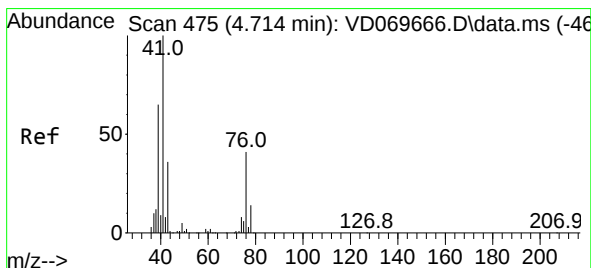
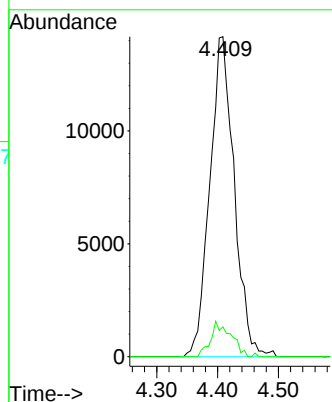
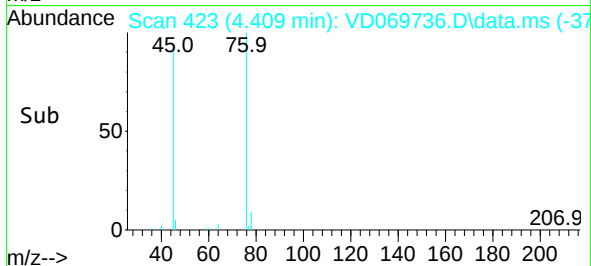


#17
Carbon Disulfide
Concen: 2.940 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

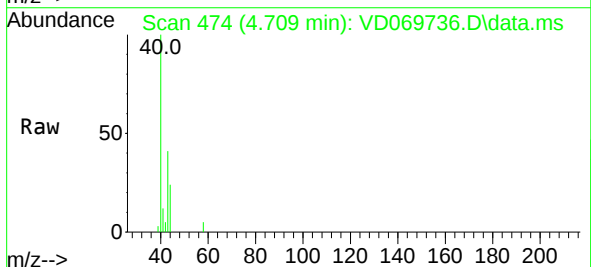
Instrument :
MSVOA_D
ClientSampled :



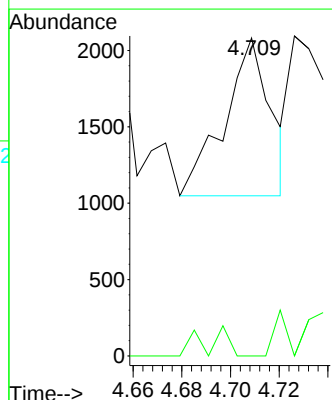
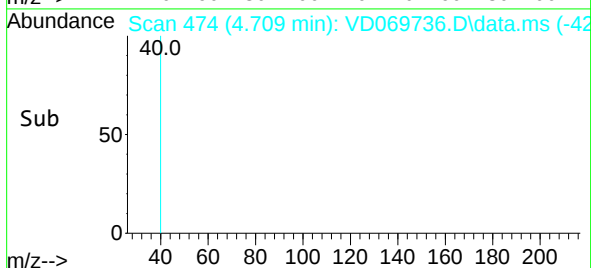
Tgt Ion: 76 Resp: 39463
Ion Ratio Lower Upper
76 100
78 9.3 7.6 11.4

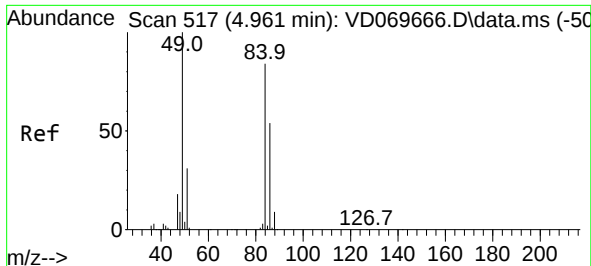


#18
Methyl Acetate
Concen: Below Cal
RT: 4.709 min Scan# 474
Delta R.T. -0.005 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25



Tgt Ion: 43 Resp: 1352
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#

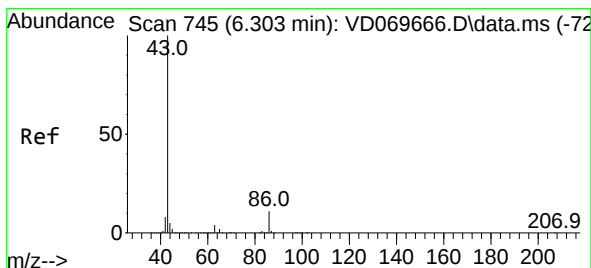
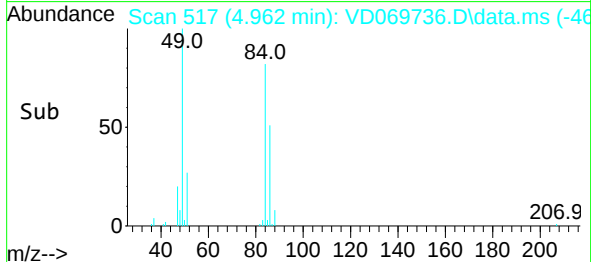
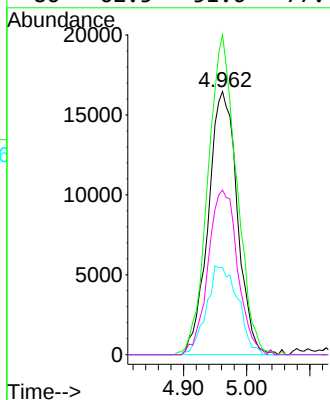
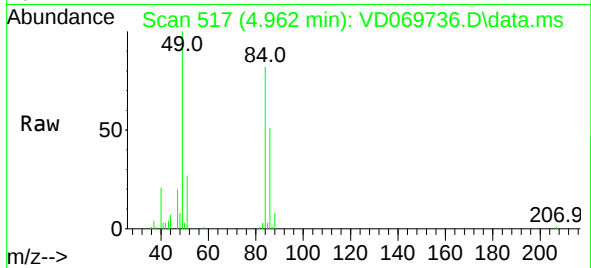




#20
Methylene Chloride
Concen: 2.807 ug/l
RT: 4.962 min Scan# 517
Delta R.T. 0.001 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

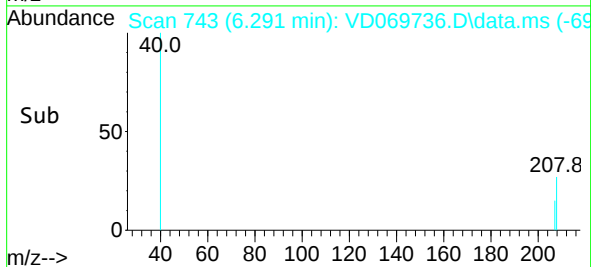
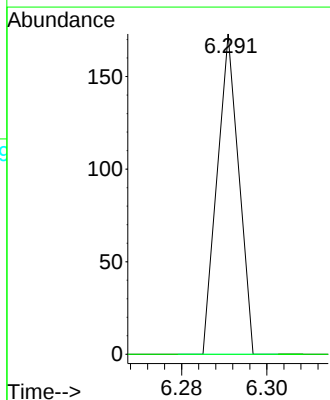
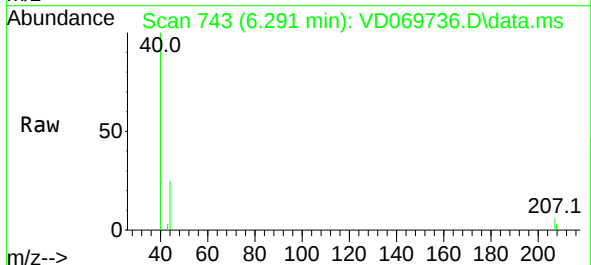
Instrument :
MSVOA_D
ClientSampled :

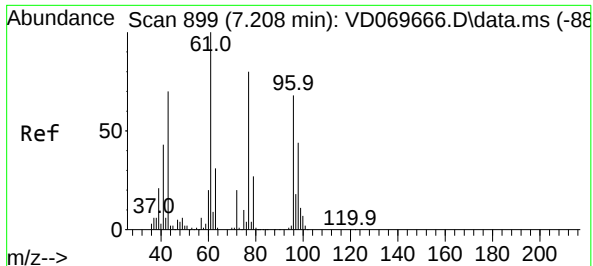
Tgt Ion:	84	Resp:	52573
Ion	Ratio	Lower	Upper
84	100		
49	121.6	95.5	143.3
51	33.1	29.7	44.5
86	62.5	51.6	77.4



#23
Vinyl Acetate
Concen: 15.432 ug/l
RT: 6.291 min Scan# 743
Delta R.T. -0.012 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion:	43	Resp:	61
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.6	12.8#

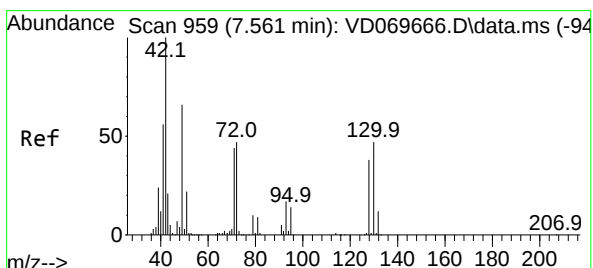
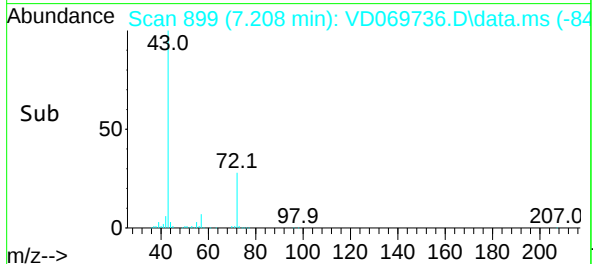
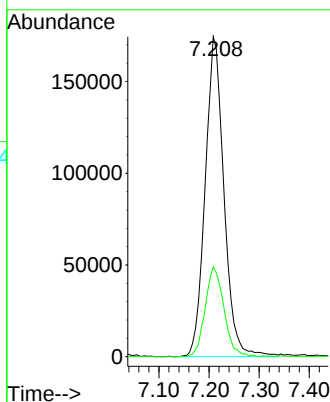
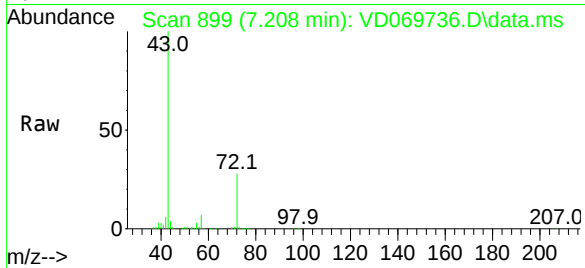




#25
2-Butanone
Concen: 379.462 ug/l
RT: 7.208 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

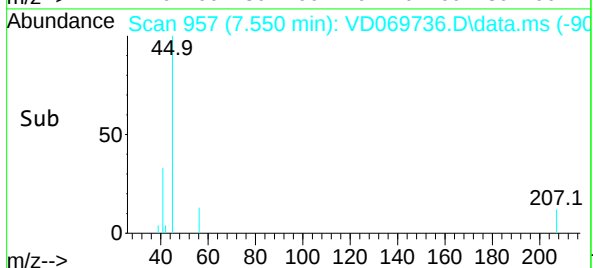
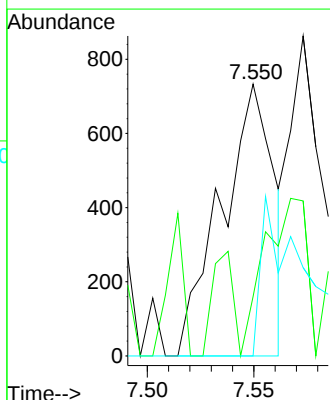
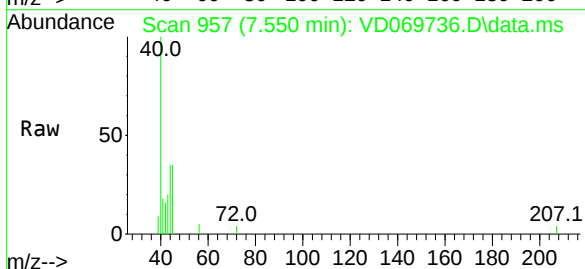
Instrument :
MSVOA_D
ClientSampled :

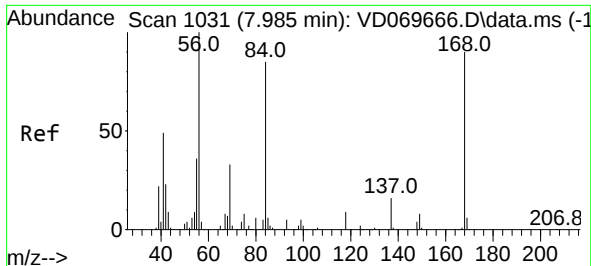
Tgt Ion: 43 Resp: 454418
Ion Ratio Lower Upper
43 100
72 28.0 22.6 33.8



#29
Tetrahydrofuran
Concen: 1.685 ug/l
RT: 7.550 min Scan# 957
Delta R.T. -0.011 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

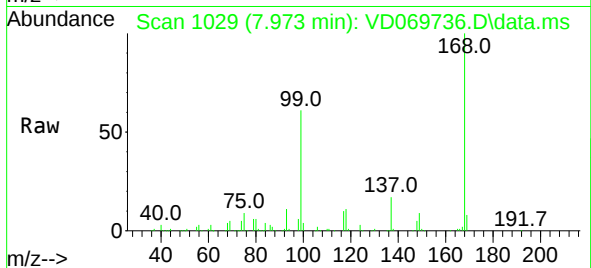
Tgt Ion: 42 Resp: 1250
Ion Ratio Lower Upper
42 100
72 15.0 36.5 54.7#
71 50.2 33.4 50.0#



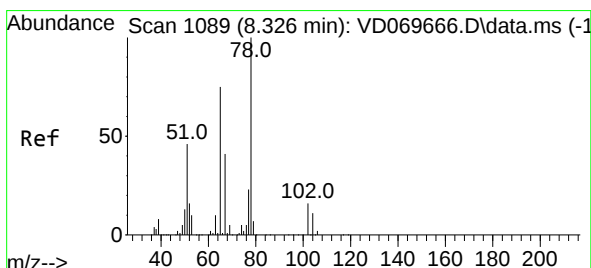
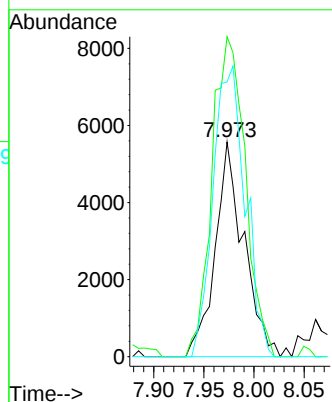
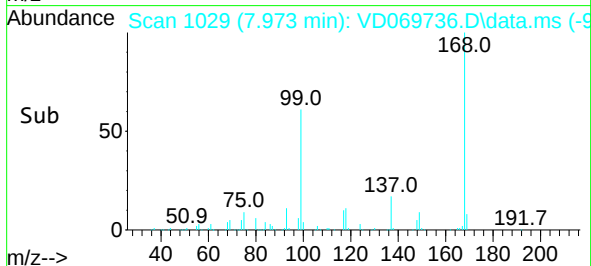


#31
Cyclohexane
Concen: 1.672 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

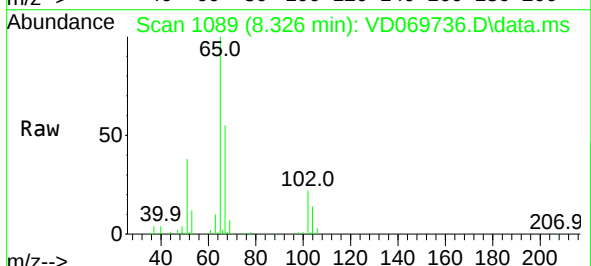
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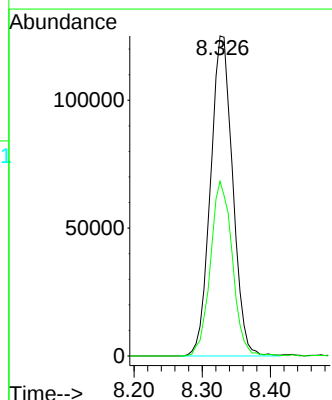
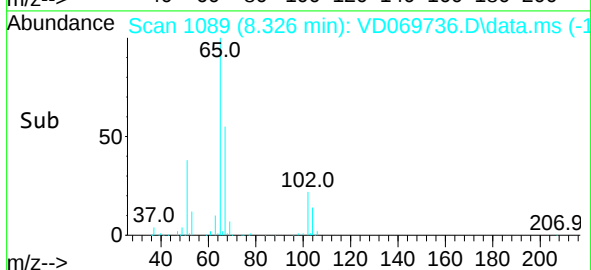
Tgt Ion: 56 Resp: 11021
Ion Ratio Lower Upper
56 100
69 149.0 26.6 39.8#
84 127.9 68.2 102.2#

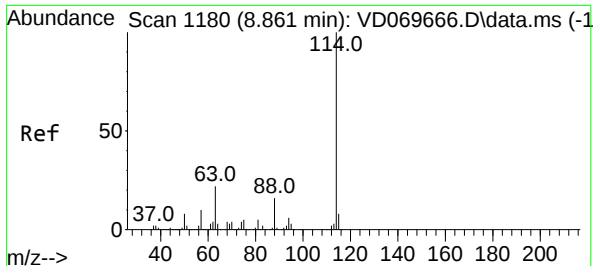


#33
1,2-Dichloroethane-d4
Concen: 55.980 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25



Tgt Ion: 65 Resp: 283643
Ion Ratio Lower Upper
65 100
67 53.9 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.867 min Scan# 1181

Delta R.T. 0.006 min

Lab File: VD069736.D

Acq: 16 Jul 2021 20:25

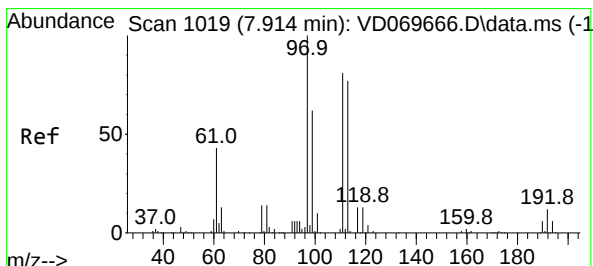
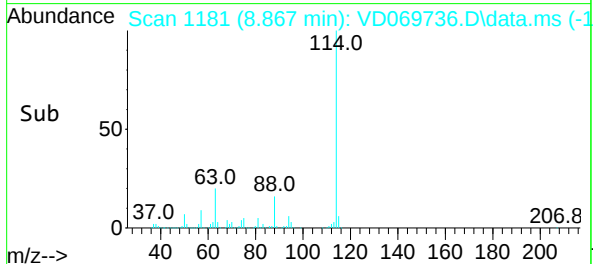
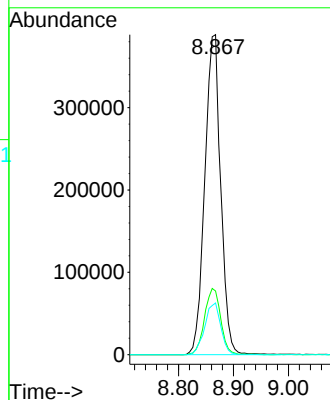
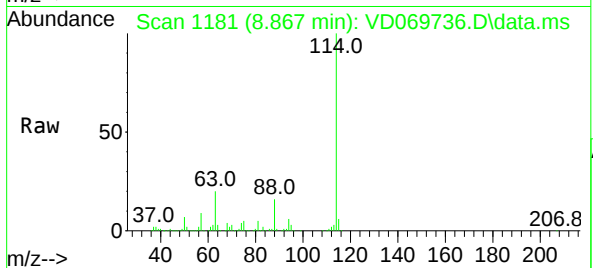
Tgt Ion:114 Resp: 780388

Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.4

88 16.1 0.0 32.0



#35

Dibromofluoromethane

Concen: 53.224 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD069736.D

Acq: 16 Jul 2021 20:25

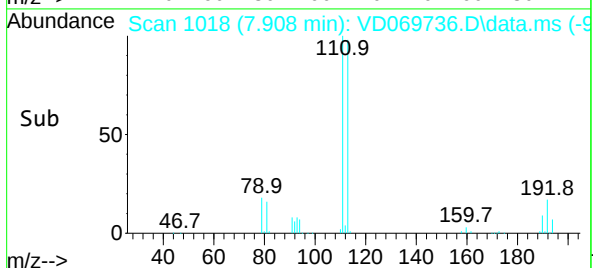
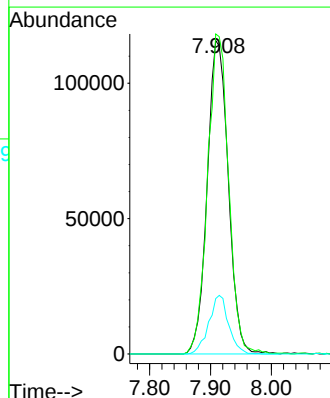
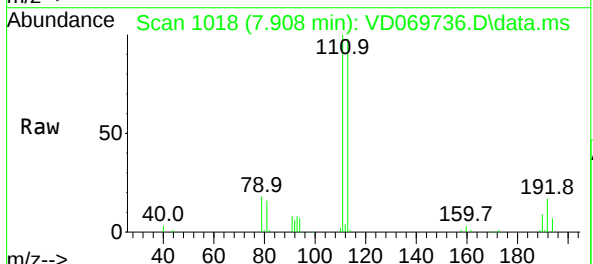
Tgt Ion:113 Resp: 278652

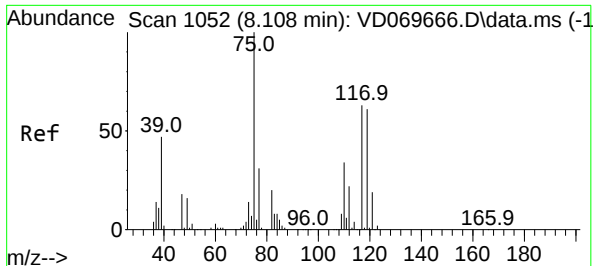
Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 17.5 12.7 19.1

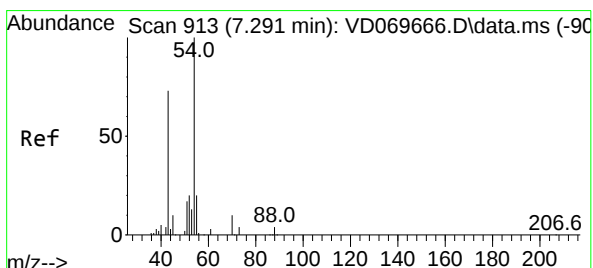
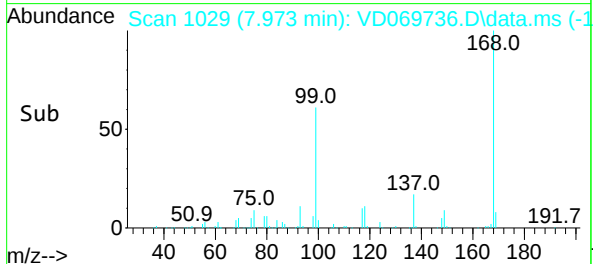
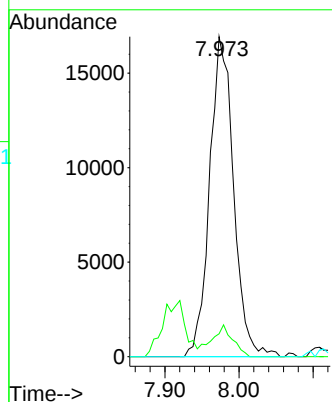
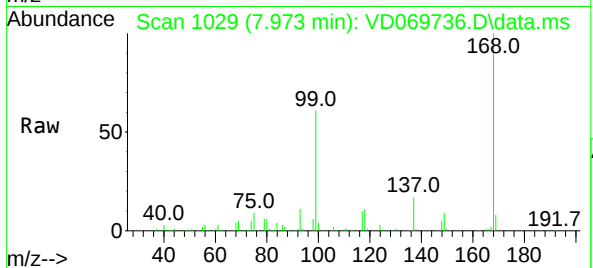




#36
1,1-Dichloropropene
Concen: 4.722 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

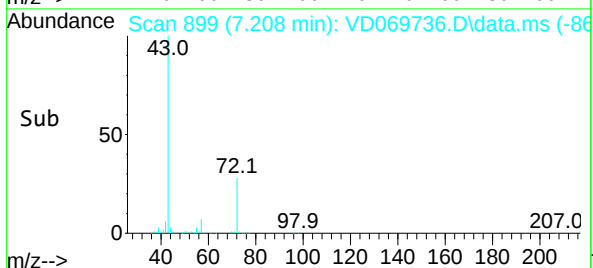
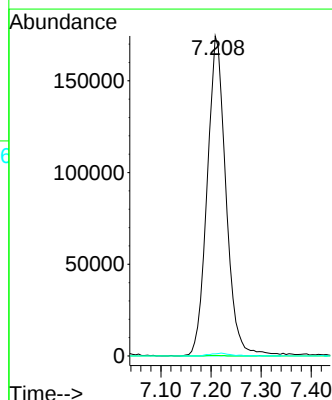
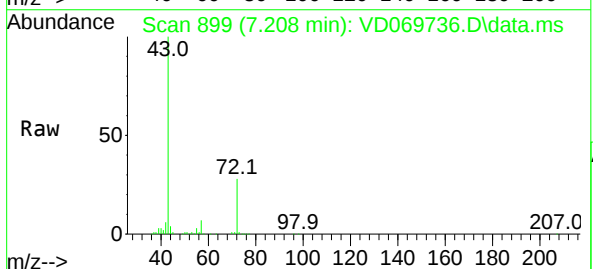
Instrument :
MSVOA_D
ClientSampleId :

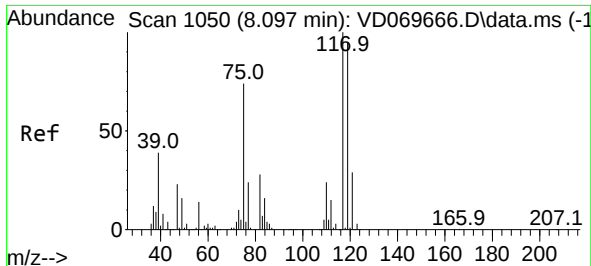
Tgt Ion: 75 Resp: 38014
Ion Ratio Lower Upper
75 100
110 7.6 16.7 50.0#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 149.214 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.083 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

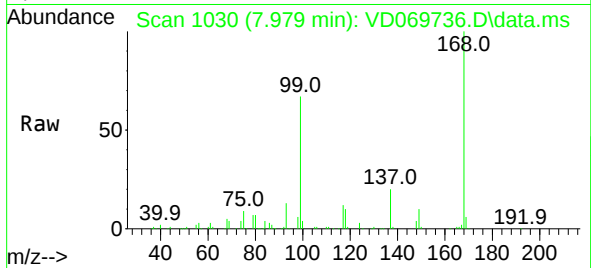
Tgt Ion: 43 Resp: 454418
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.9 8.4 12.6#



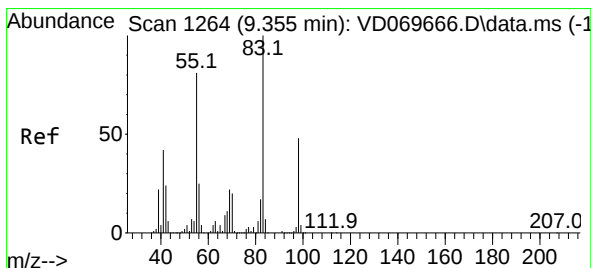
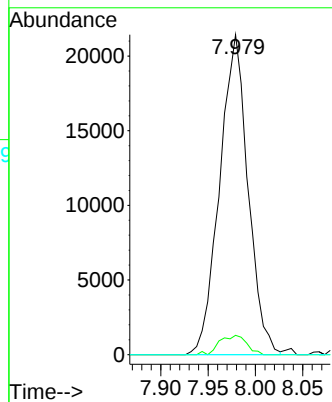
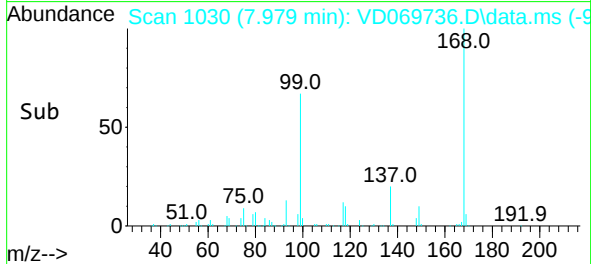


#38
Carbon Tetrachloride
Concen: 6.060 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

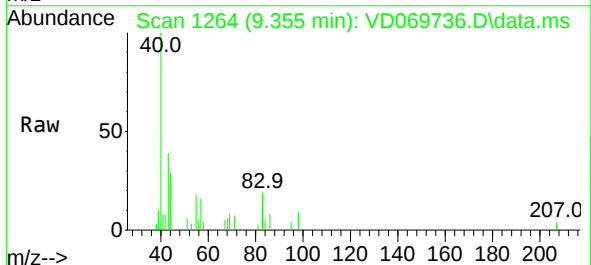
Instrument :
MSVOA_D
ClientSampleId :



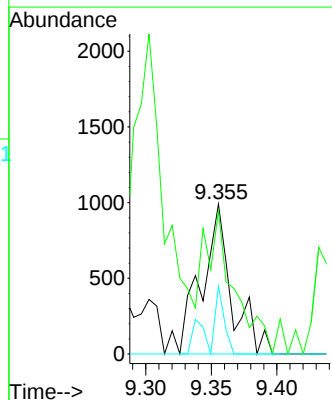
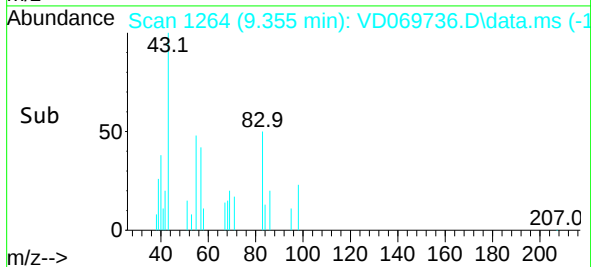
Tgt Ion:117 Resp: 44675
Ion Ratio Lower Upper
117 100
119 6.1 75.7 113.5#
121 0.0 23.0 34.6#

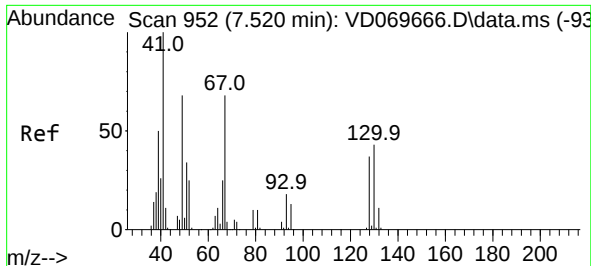


#39
Methylcyclohexane
Concen: 2.115 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25



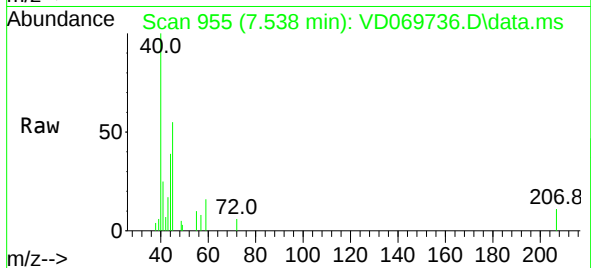
Tgt Ion: 83 Resp: 1570
Ion Ratio Lower Upper
83 100
55 71.9 64.6 97.0
98 45.3 38.4 57.6



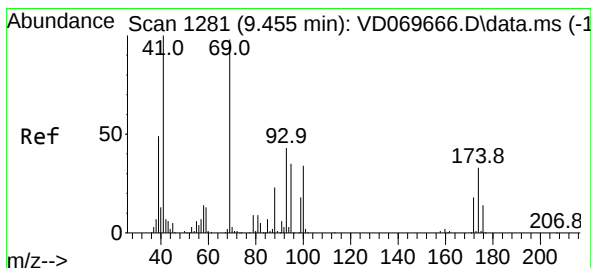
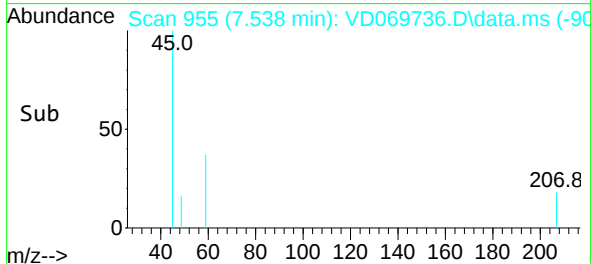
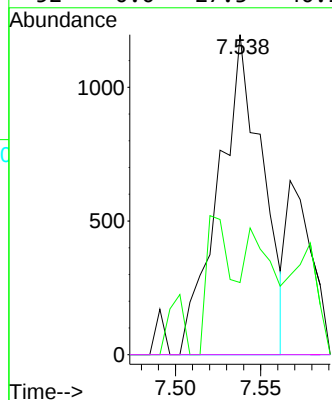


#41
Methacrylonitrile
Concen: 1.357 ug/l
RT: 7.538 min Scan# 955
Delta R.T. 0.018 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Instrument :
MSVOA_D
ClientSampleId :

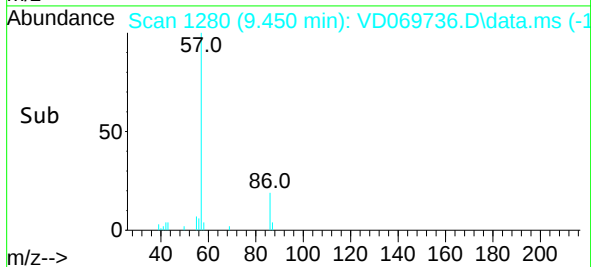
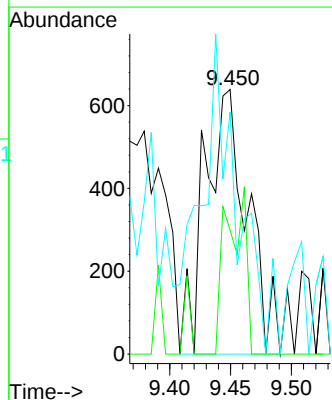
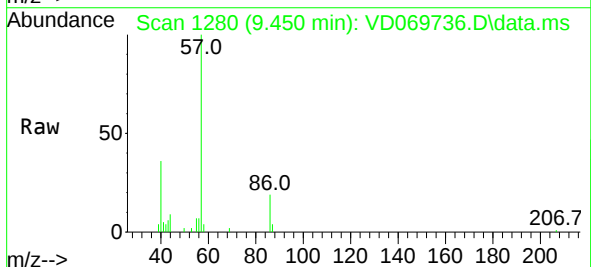


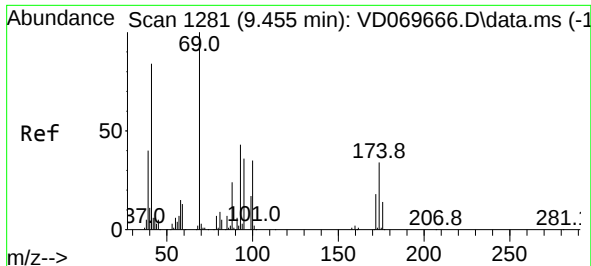
Tgt Ion:	41	Resp:	2141
Ion	Ratio	Lower	Upper
41	100		
39	9.0	47.4	71.0#
67	0.0	67.0	100.6#
52	0.0	27.3	40.9#



#48
Methyl methacrylate
Concen: 1.626 ug/l
RT: 9.450 min Scan# 1280
Delta R.T. -0.005 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion:	41	Resp:	1551
Ion	Ratio	Lower	Upper
41	100		
69	29.5	71.6	107.4#
39	0.0	36.7	55.1#

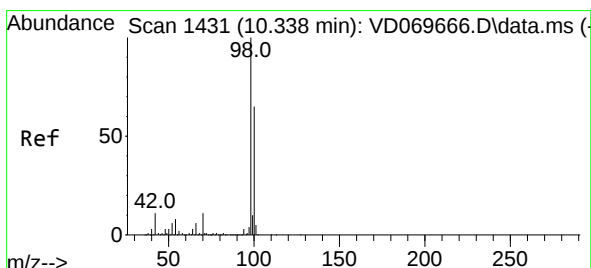
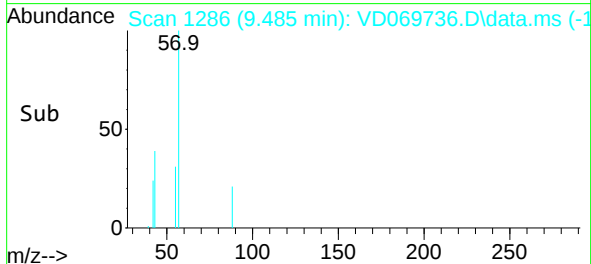
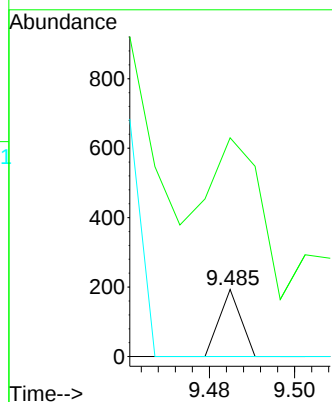
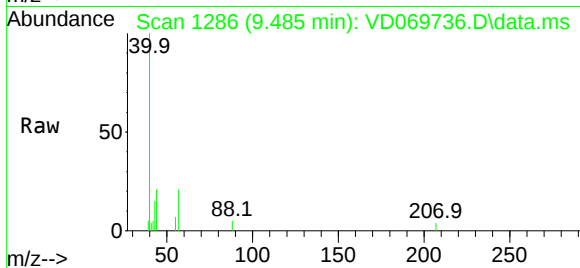




#49
1,4-Dioxane
Concen: 102.885 ug/l
RT: 9.485 min Scan# 1286
Delta R.T. 0.030 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

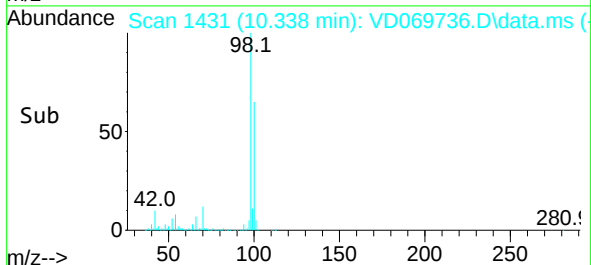
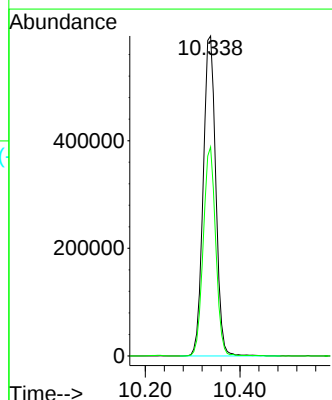
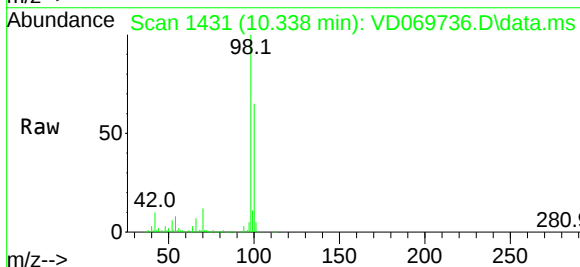
Instrument :
MSVOA_D
ClientSampleId :

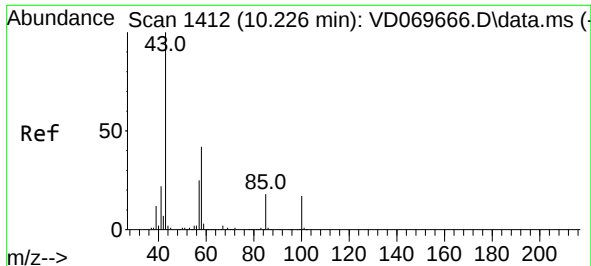
Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 0.0 62.6 94.0#



#50
Toluene-d8
Concen: 53.558 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion: 98 Resp: 1089356
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2

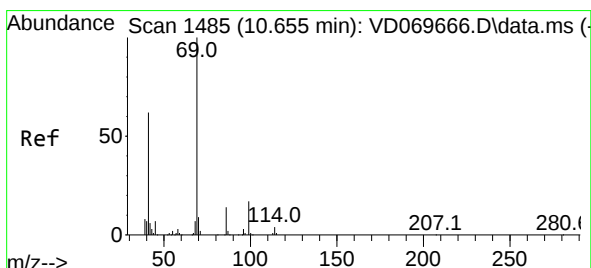
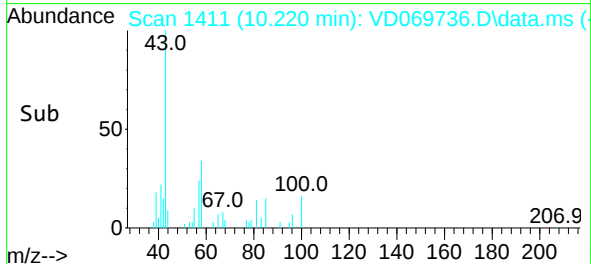
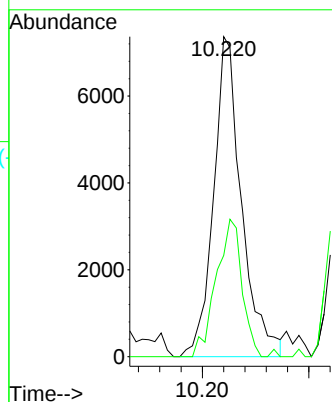
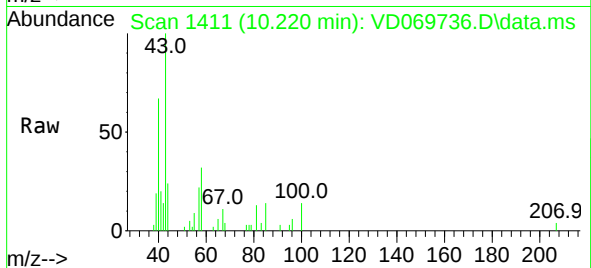




#51
4-Methyl-2-Pentanone
Concen: 4.638 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

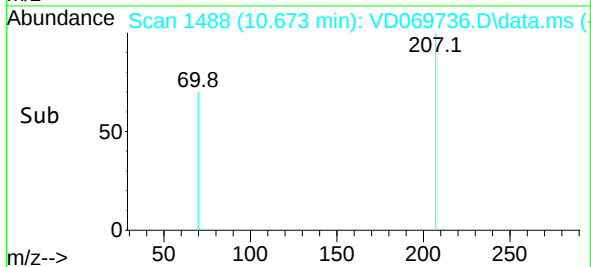
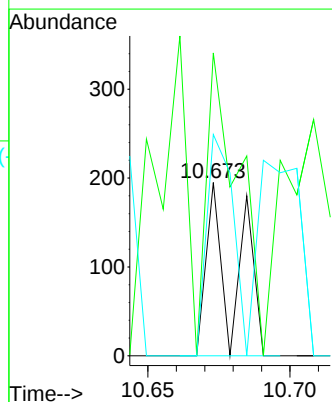
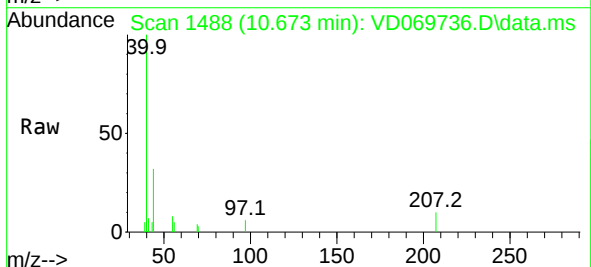
Instrument :
MSVOA_D
ClientSampleId :

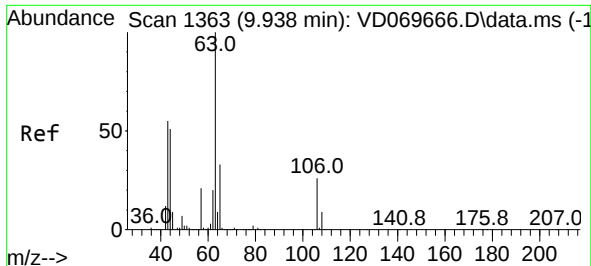
Tgt Ion: 43 Resp: 13396
Ion Ratio Lower Upper
43 100
58 39.6 33.5 50.3



#56
Ethyl methacrylate
Concen: 1.689 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

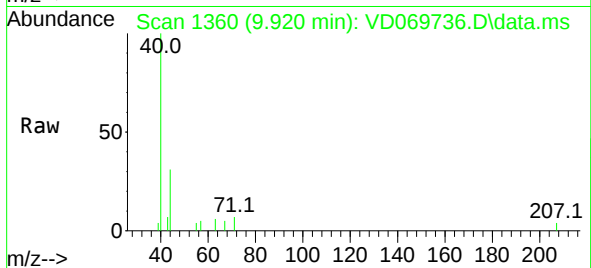
Tgt Ion: 69 Resp: 132
Ion Ratio Lower Upper
69 100
41 202.3 49.5 74.3#
39 122.0 22.5 33.7#



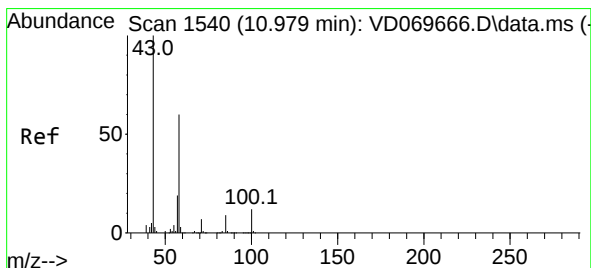
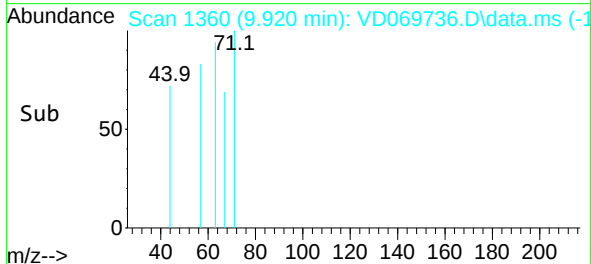
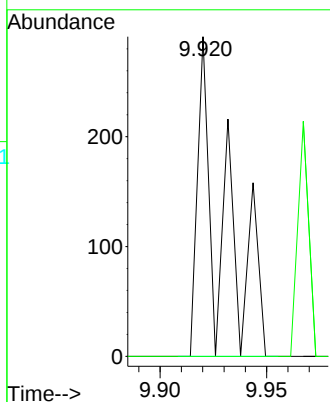


#58
2-Chloroethyl Vinyl ether
Concen: 9.456 ug/l
RT: 9.920 min Scan# 1360
Delta R.T. -0.018 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Instrument :
MSVOA_D
ClientSampled :

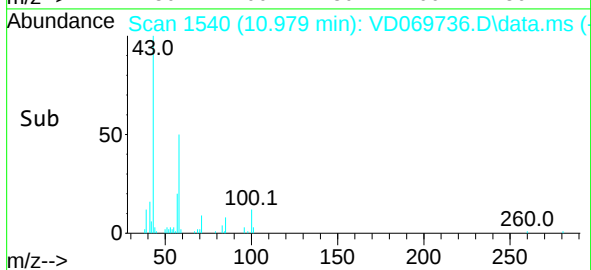
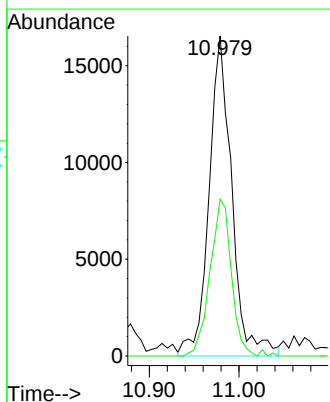


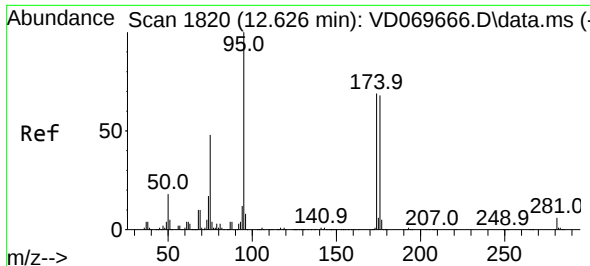
Tgt Ion: 63 Resp: 235
Ion Ratio Lower Upper
63 100
106 0.0 21.1 31.7#



#59
2-Hexanone
Concen: 15.118 ug/l
RT: 10.979 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion: 43 Resp: 29102
Ion Ratio Lower Upper
43 100
58 45.7 29.1 87.4

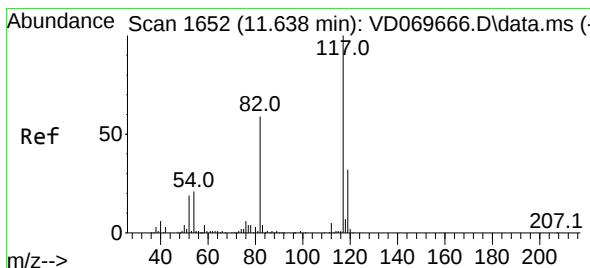
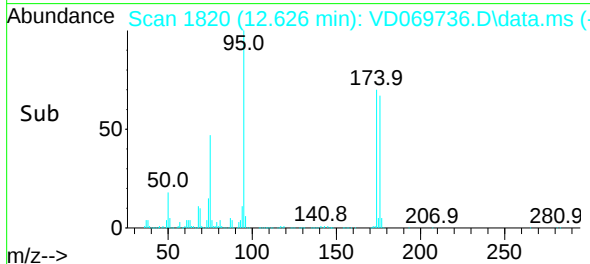
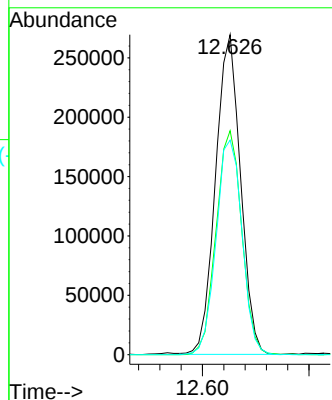
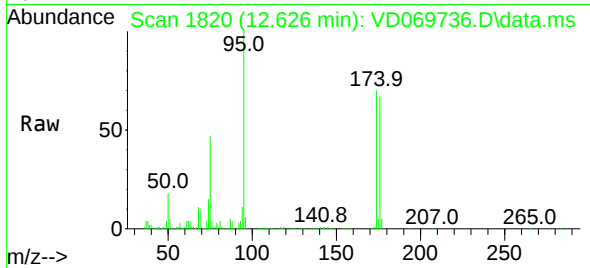




#62
4-Bromofluorobenzene
Concen: 64.560 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

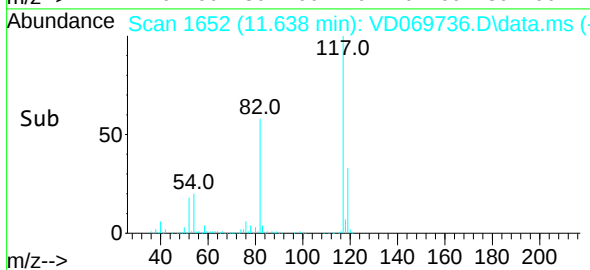
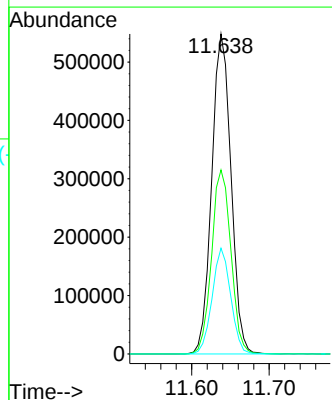
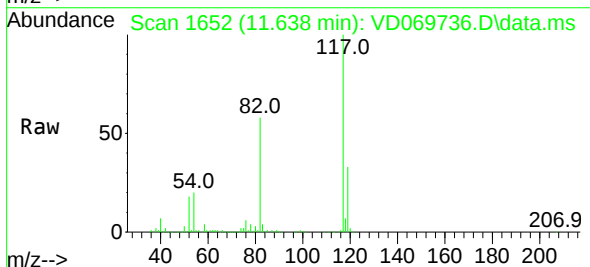
Instrument :
MSVOA_D
ClientSampleId :

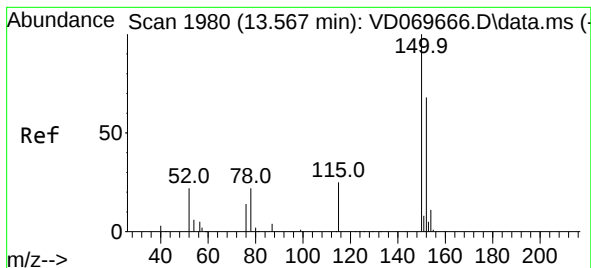
Tgt Ion: 95 Resp: 437947
Ion Ratio Lower Upper
95 100
174 71.9 0.0 140.0
176 69.7 0.0 136.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion: 117 Resp: 948829
Ion Ratio Lower Upper
117 100
82 57.5 47.4 71.2
119 33.1 25.5 38.3

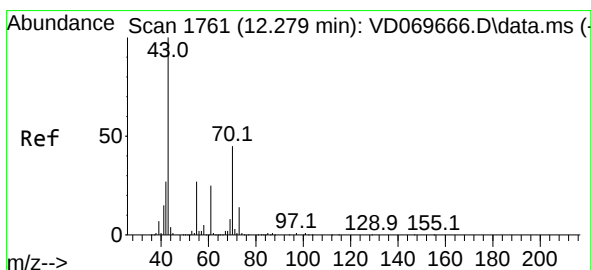
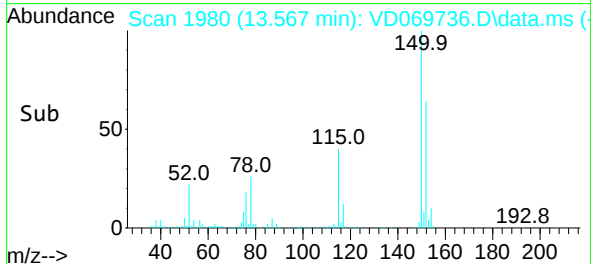
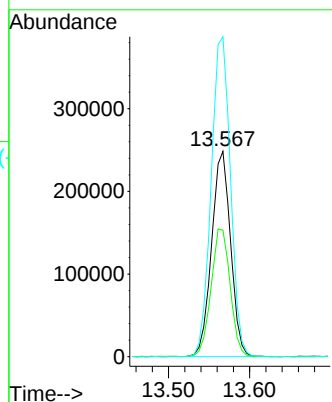
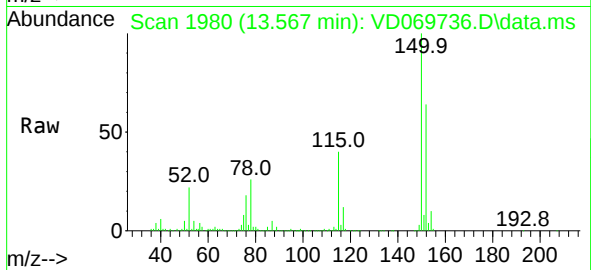




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

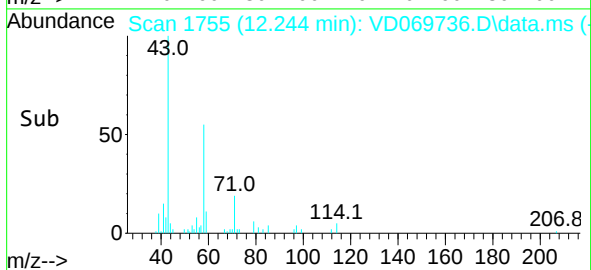
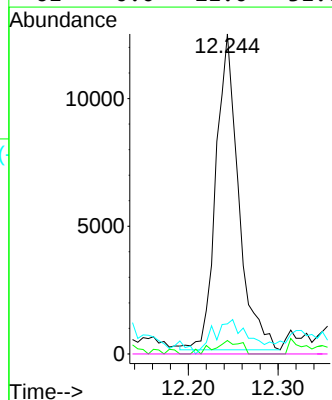
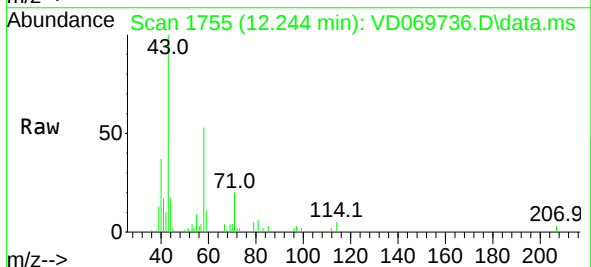
Instrument :
MSVOA_D
ClientSampleId :

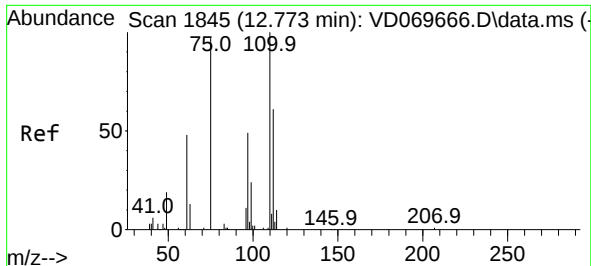
Tgt Ion:152 Resp: 404111
Ion Ratio Lower Upper
152 100
115 62.5 31.7 95.1
150 158.0 0.0 350.4



#74
N-ethyl acetate
Concen: 3.463 ug/l
RT: 12.244 min Scan# 1755
Delta R.T. -0.035 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion: 43 Resp: 21654
Ion Ratio Lower Upper
43 100
70 4.9 36.9 55.3#
55 16.2 22.4 33.6#
61 0.0 21.0 31.6#

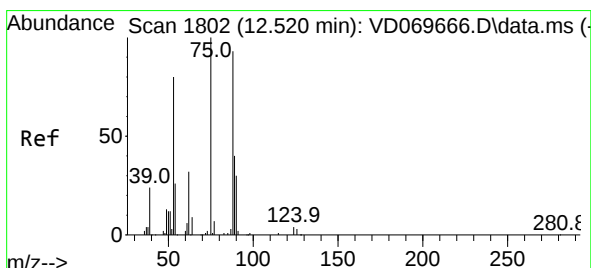
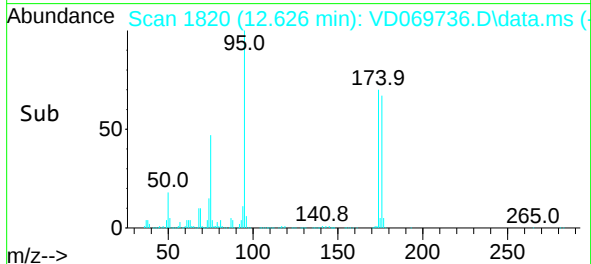
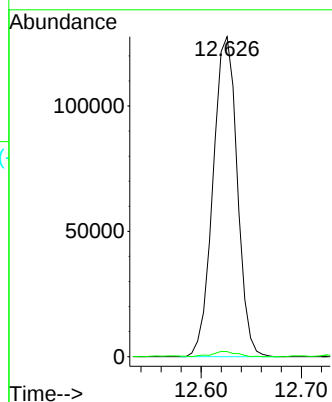
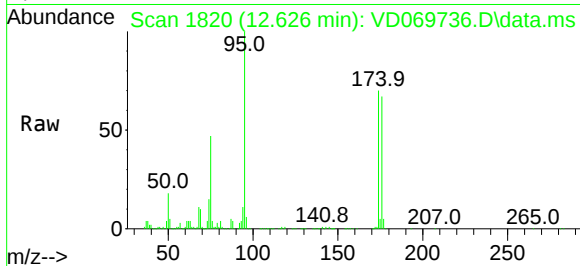




#76
1,2,3-Trichloropropane
Concen: 54.588 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

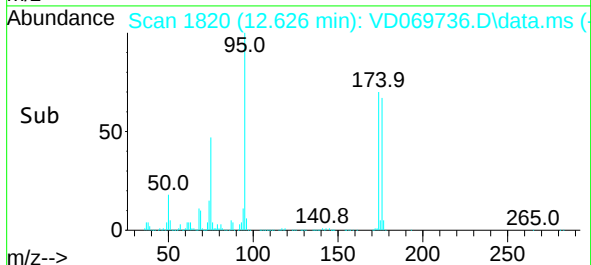
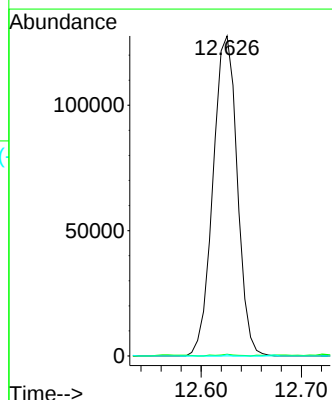
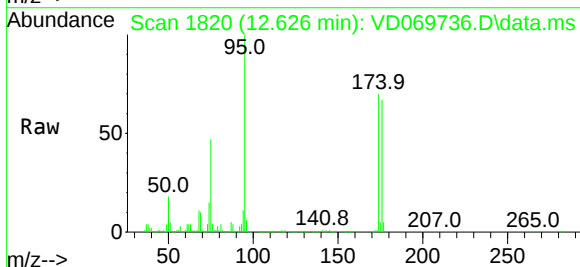
Instrument :
MSVOA_D
ClientSampleId :

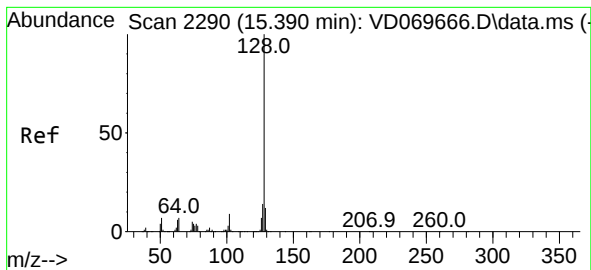
Tgt Ion: 75 Resp: 214302
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 146.702 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Tgt Ion: 75 Resp: 214302
Ion Ratio Lower Upper
75 100
53 0.4 70.6 106.0#
89 0.1 35.1 52.7#





#95
Naphthalene
Concen: 2.485 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.005 min
Lab File: VD069736.D
Acq: 16 Jul 2021 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 3739
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 16.6 8.8 13.2#

