

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100821\
 Data File : VD070644.D
 Acq On : 08 Oct 2021 17:44
 Operator : VA/SY
 Sample : M3990-10
 Misc : 7.29G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 02:24:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 06 09:10:31 2021
 Response via : Initial Calibration

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

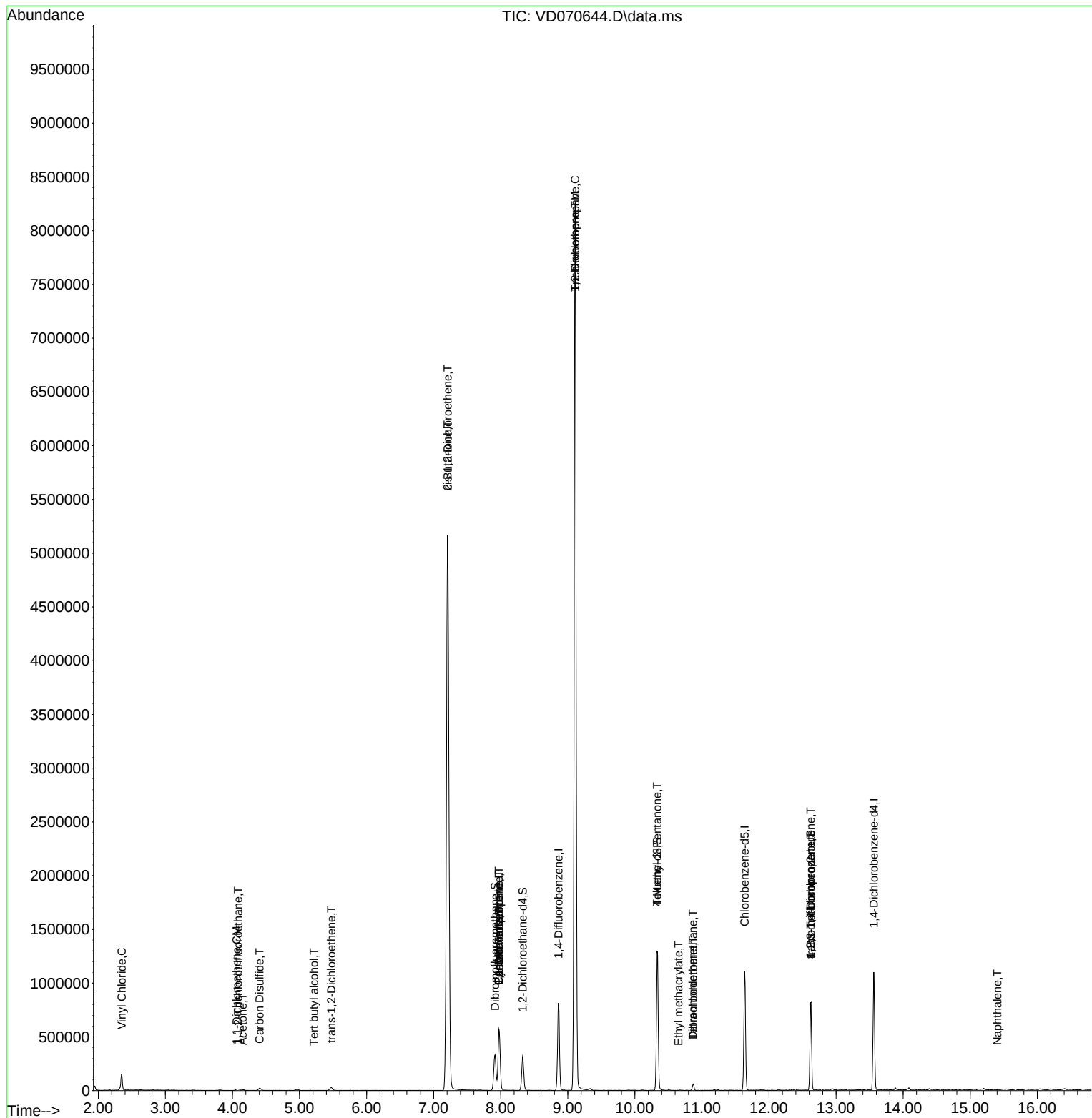
Internal Standards						
1) Pentafluorobenzene	7.973	168	398212	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	703861	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	675066	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	289513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	236777	50.524	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 101.040%	
35) Dibromofluoromethane	7.914	113	249612	53.340	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.680%	
50) Toluene-d8	10.332	98	923080	51.598	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 103.200%	
62) 4-Bromofluorobenzene	12.620	95	286014	47.835	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 95.660%	
Target Compounds						Qvalue
4) Vinyl Chloride	2.350	62	134111	20.069	ug/l	99
5) Bromomethane	2.768	94	561	Below Cal	#	23
9) 1,1,2-Trichlorotrifluo...	4.085	101	5554	1.058	ug/l	95
11) Tert butyl alcohol	5.215	59	487	2.098	ug/l #	83
12) 1,1-Dichloroethene	4.062	96	6630	1.419	ug/l	86
16) Acetone	4.150	43	12184	15.310	ug/l #	78
17) Carbon Disulfide	4.403	76	44389	2.602	ug/l	98
20) Methylene Chloride	4.950	84	7889	Below Cal		87
21) trans-1,2-Dichloroethene	5.473	96	18828	3.425	ug/l	95
25) 2-Butanone	7.209	43	2244	2.154	ug/l #	1
27) cis-1,2-Dichloroethene	7.209	96	3328164	576.213	ug/l	89
31) Cyclohexane	7.973	56	9439	1.088	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	33851	4.528	ug/l #	49
38) Carbon Tetrachloride	7.973	117	44100	5.637	ug/l #	16
44) Trichloroethene	9.108	130	2970165	546.682	ug/l	99
45) 1,2-Dichloropropane	9.108	63	6789	1.207	ug/l #	1
51) 4-Methyl-2-Pentanone	10.332	43	3346	1.425	ug/l #	1
56) Ethyl methacrylate	10.650	69	140	1.403	ug/l #	32
59) 2-Hexanone	10.938	43	407	Below Cal	#	20
60) Dibromochloromethane	10.867	129	13191	2.785	ug/l #	11
64) Tetrachloroethene	10.867	164	13216	3.053	ug/l #	82
76) 1,2,3-Trichloropropane	12.620	75	138364	52.802	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	138364	117.231	ug/l #	17
95) Naphthalene	15.402	128	180	2.508	ug/l #	69

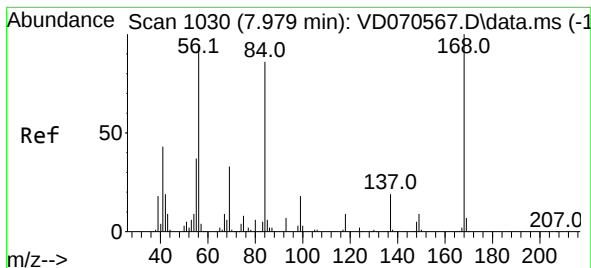
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 06 09:10:31 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD070644.D

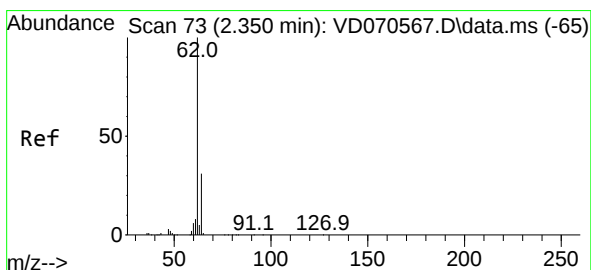
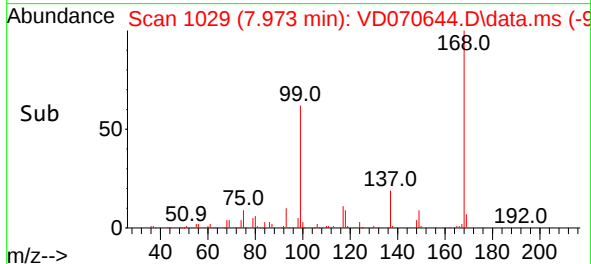
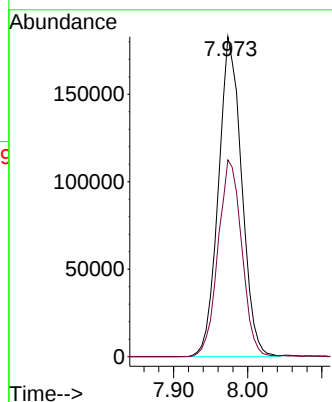
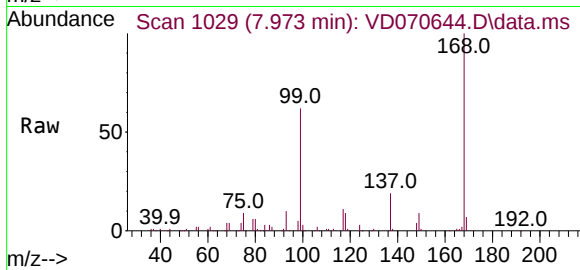
Acq: 08 Oct 2021 17:44

Tgt Ion:168 Resp: 398212

Ion Ratio Lower Upper

168 100

99 61.5 51.4 77.0



#4

Vinyl Chloride

Concen: 20.069 ug/l

RT: 2.350 min Scan# 73

Delta R.T. 0.000 min

Lab File: VD070644.D

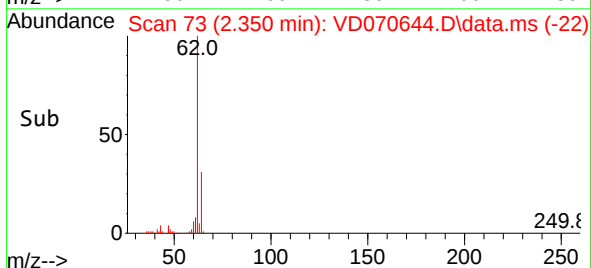
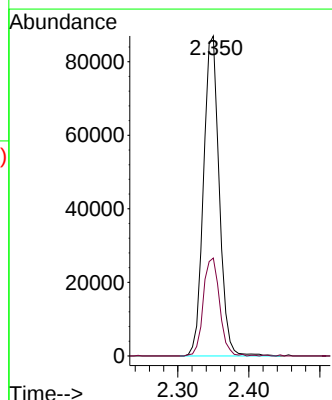
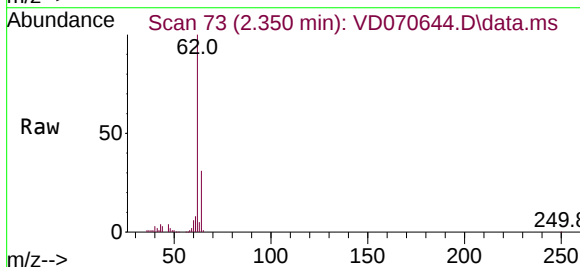
Acq: 08 Oct 2021 17:44

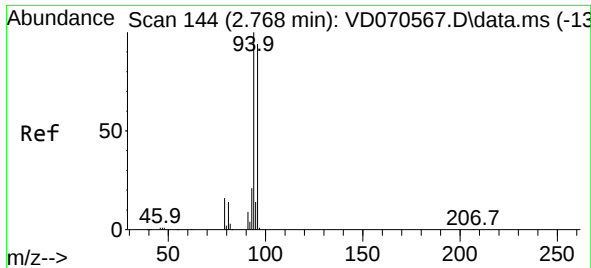
Tgt Ion: 62 Resp: 134111

Ion Ratio Lower Upper

62 100

64 30.6 24.9 37.3

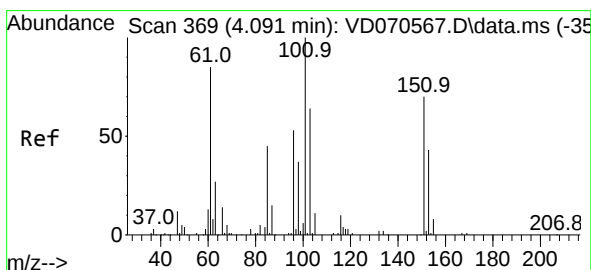
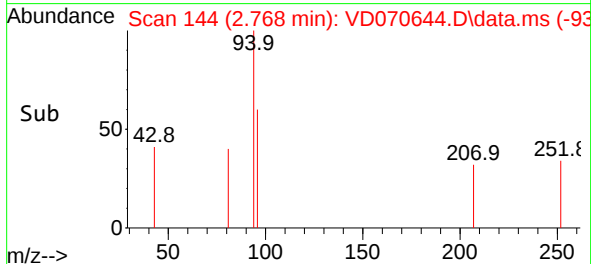
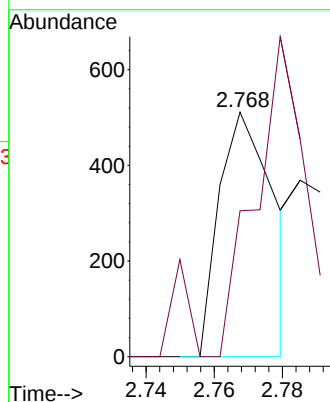
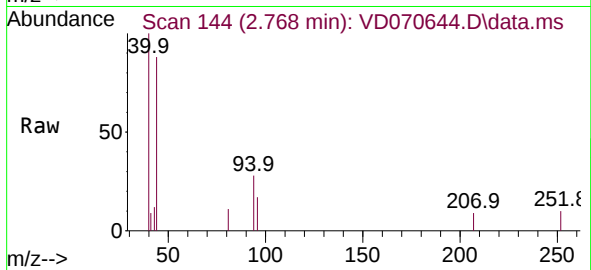




#5
Bromomethane
Concen: Below Cal
RT: 2.768 min Scan# 144
Delta R.T. -0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

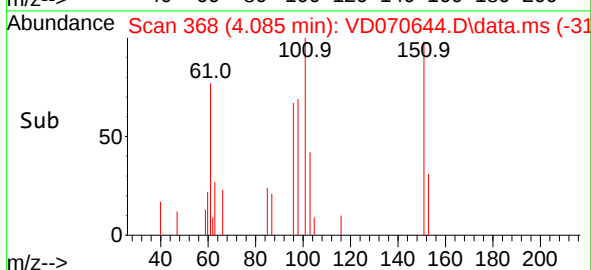
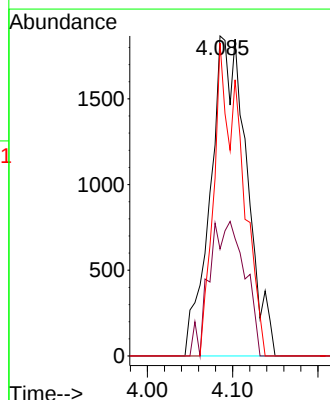
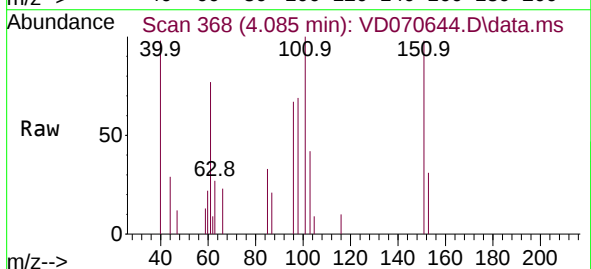
Instrument :
MSVOA_D
ClientSampleId :

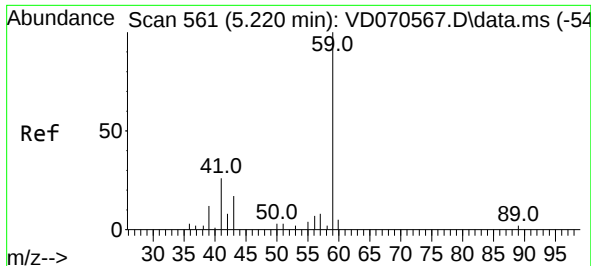
Tgt Ion: 94 Resp: 561
Ion Ratio Lower Upper
94 100
96 20.0 75.5 113.3#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.058 ug/l
RT: 4.085 min Scan# 368
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion:101 Resp: 5554
Ion Ratio Lower Upper
101 100
85 41.0 35.5 53.3
151 74.0 55.8 83.8

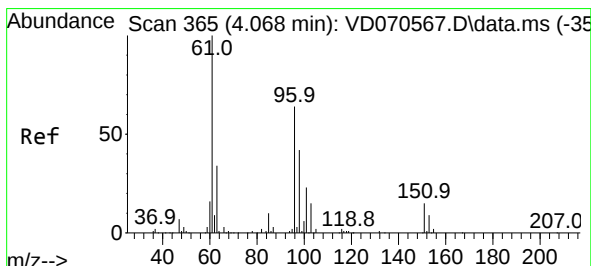
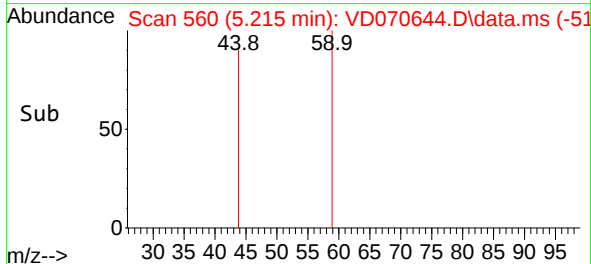
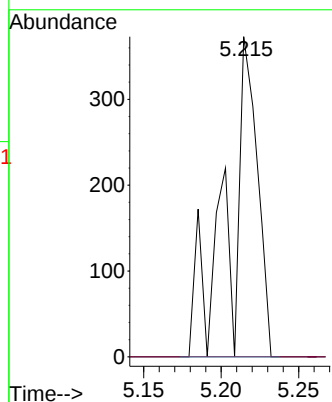
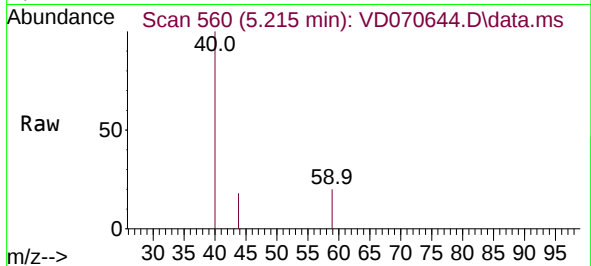




#11
Tert butyl alcohol
Concen: 2.098 ug/l
RT: 5.215 min Scan# 560
Delta R.T. -0.005 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

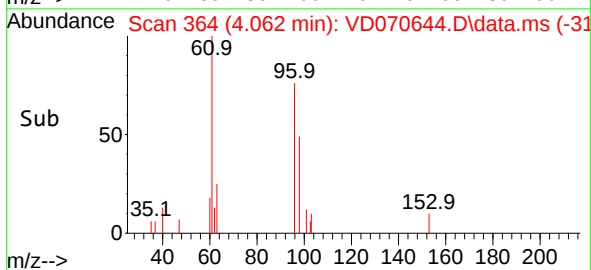
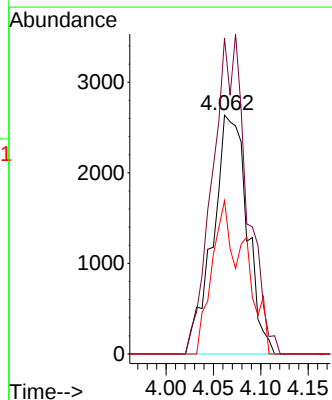
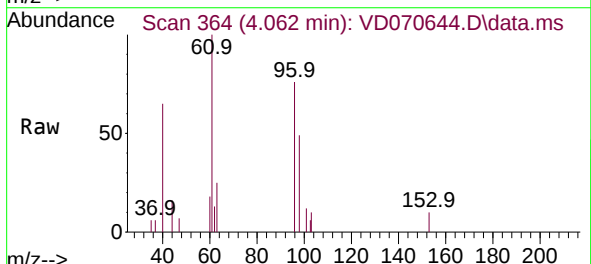
Instrument :
MSVOA_D
ClientSampled :

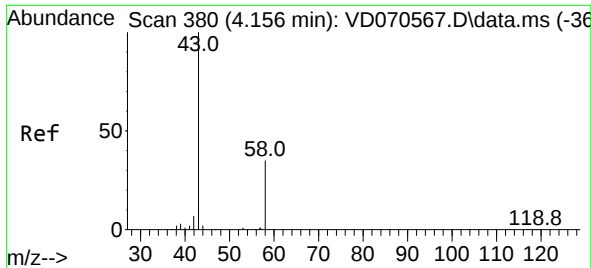
Tgt Ion: 59 Resp: 487
Ion Ratio Lower Upper
59 100
57 0.0 4.5 6.7#



#12
1,1-Dichloroethene
Concen: 1.419 ug/l
RT: 4.062 min Scan# 364
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 96 Resp: 6630
Ion Ratio Lower Upper
96 100
61 132.2 125.9 188.9
98 64.2 52.3 78.5

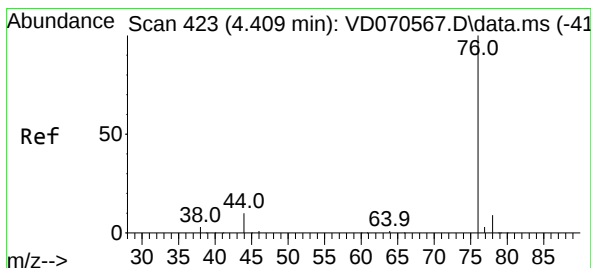
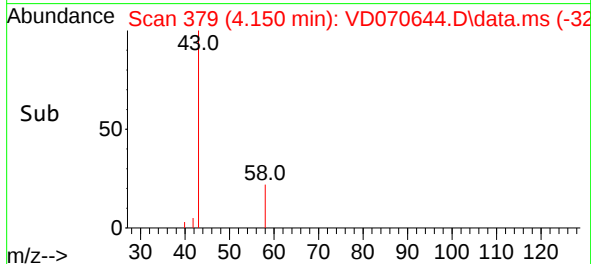
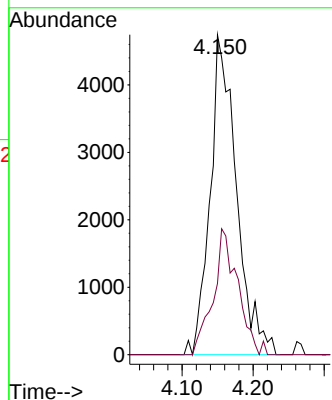
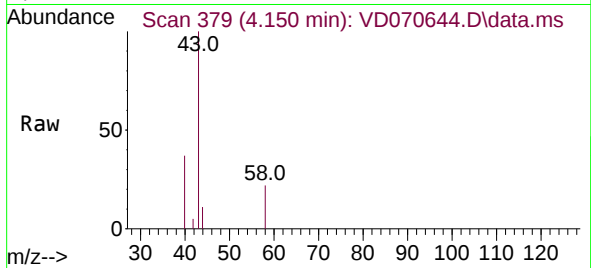




#16
Acetone
Concen: 15.310 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

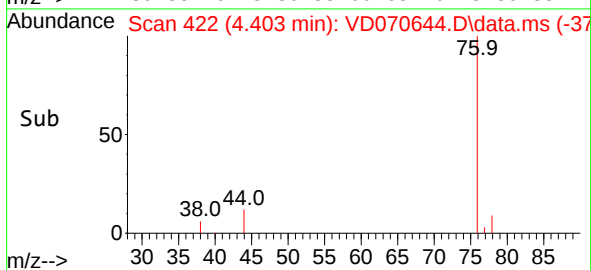
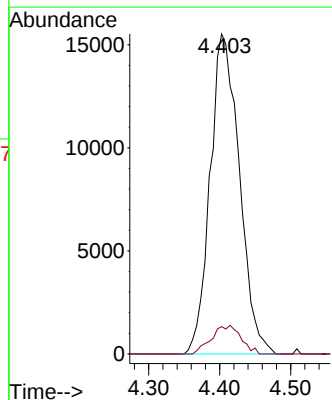
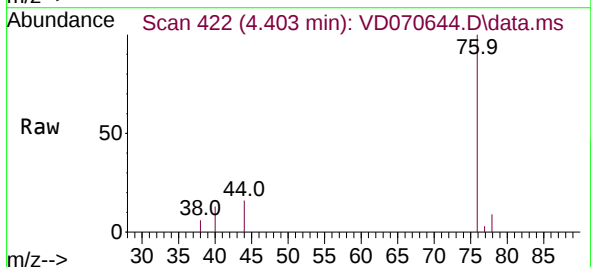
Instrument :
MSVOA_D
ClientSampled :

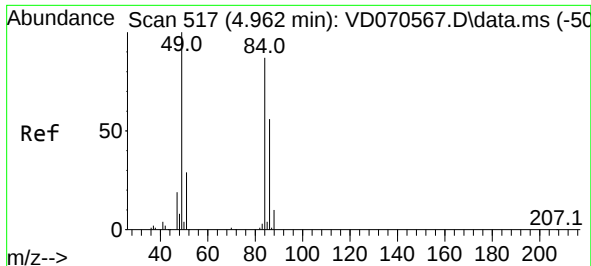
Tgt Ion: 43 Resp: 12184
Ion Ratio Lower Upper
43 100
58 22.3 28.2 42.2#



#17
Carbon Disulfide
Concen: 2.602 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

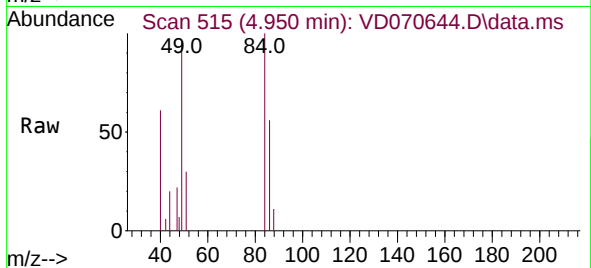
Tgt Ion: 76 Resp: 44389
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.2





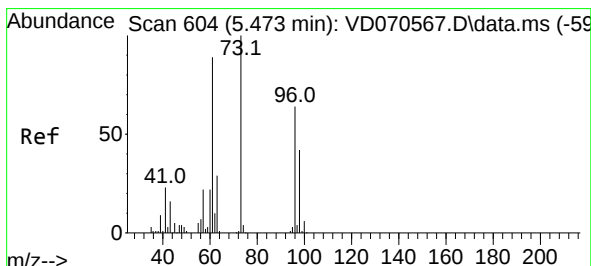
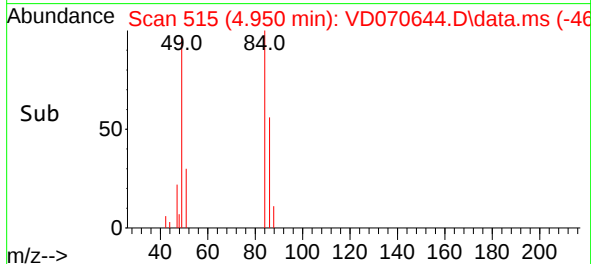
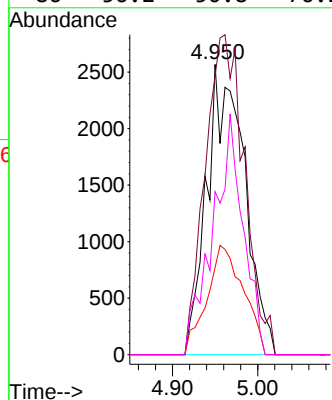
#20
Methylene Chloride
Concen: Below Cal
RT: 4.950 min Scan# 515
Delta R.T. -0.012 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 7889

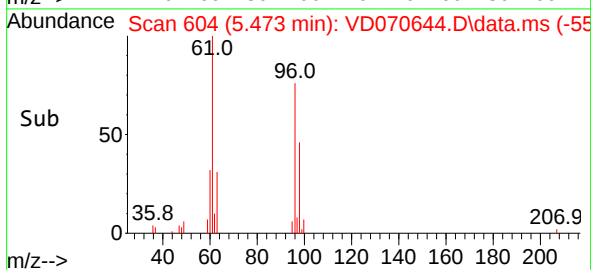
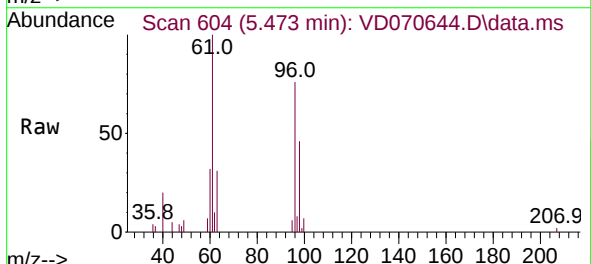
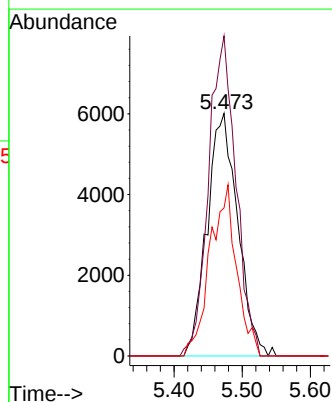
Ion	Ratio	Lower	Upper
84	100		
49	95.9	91.4	137.2
51	30.1	26.7	40.1
86	56.2	50.8	76.2

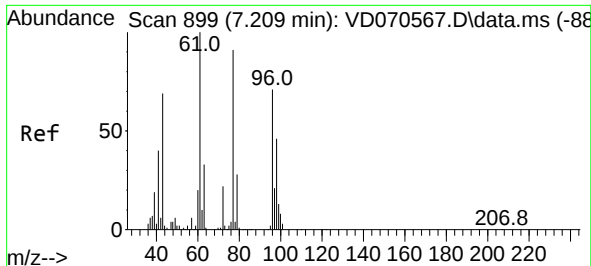


#21
trans-1,2-Dichloroethene
Concen: 3.425 ug/l
RT: 5.473 min Scan# 604
Delta R.T. 0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 96 Resp: 18828

Ion	Ratio	Lower	Upper
96	100		
61	131.9	111.1	166.7
98	61.0	51.9	77.9

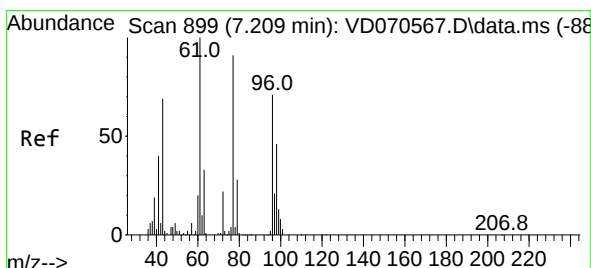
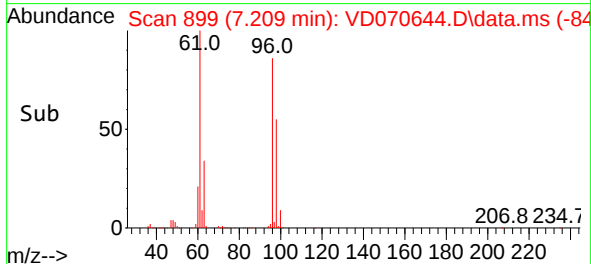
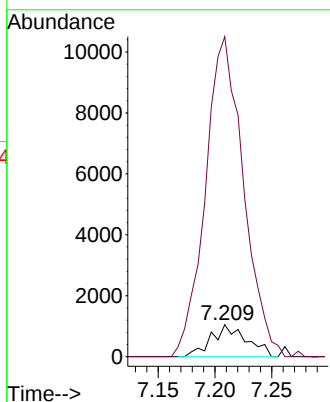
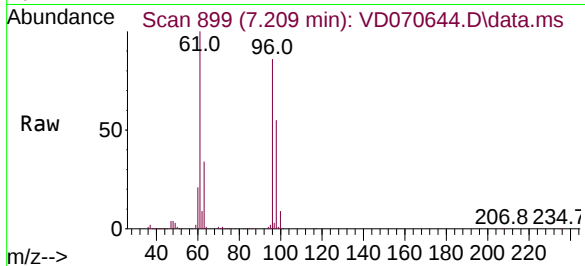




#25
2-Butanone
Concen: 2.154 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

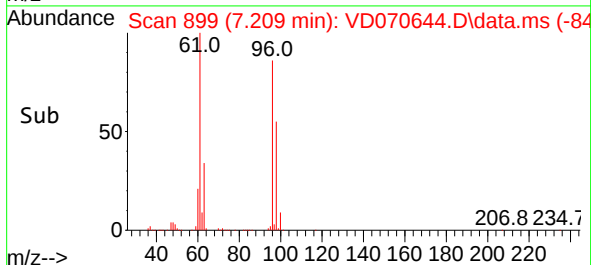
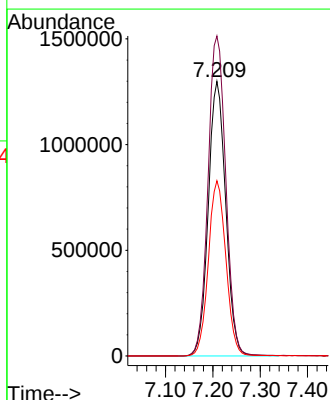
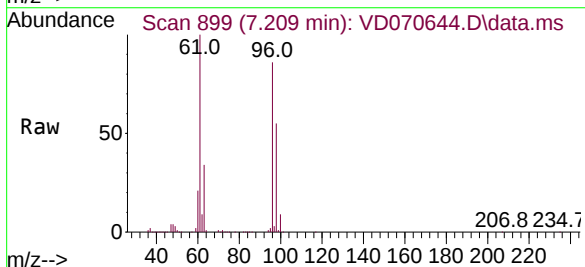
Instrument :
MSVOA_D
ClientSampleId :

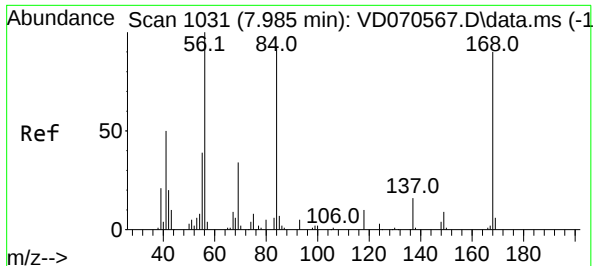
Tgt Ion: 43 Resp: 2244
Ion Ratio Lower Upper
43 100
72 972.5 25.2 37.8#



#27
cis-1,2-Dichloroethene
Concen: 576.213 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 96 Resp: 3328164
Ion Ratio Lower Upper
96 100
61 119.0 0.0 278.2
98 64.1 0.0 128.6

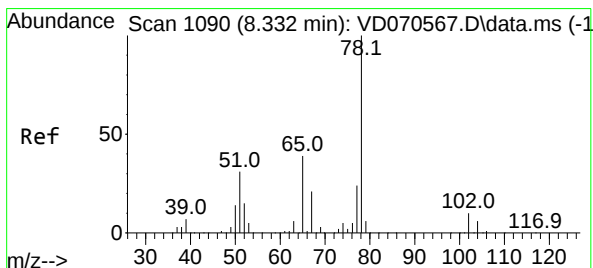
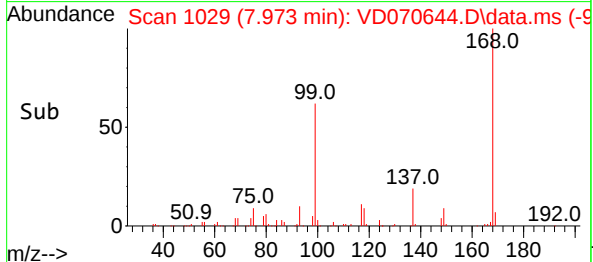
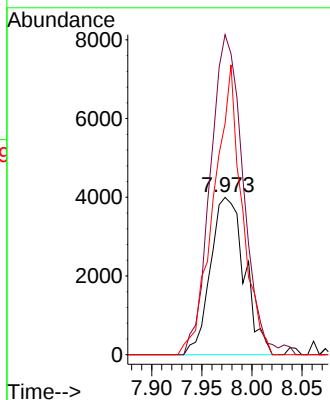
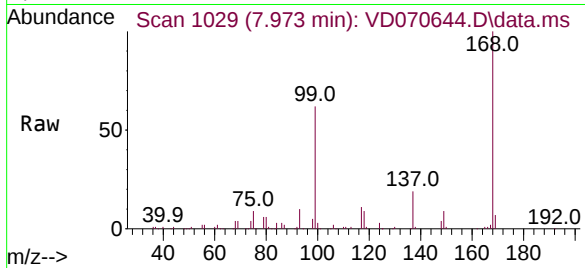




#31
Cyclohexane
Concen: 1.088 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

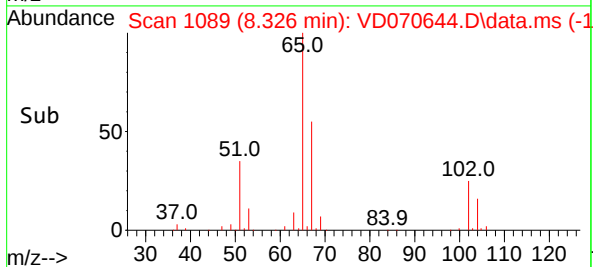
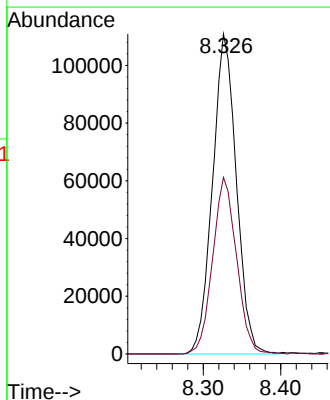
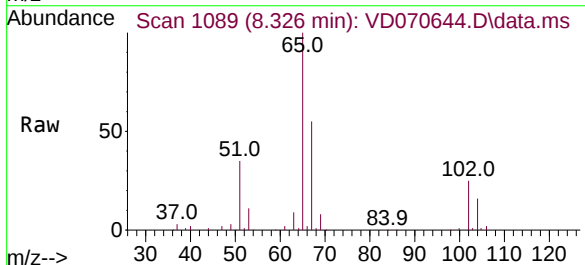
Instrument :
MSVOA_D
ClientSampled :

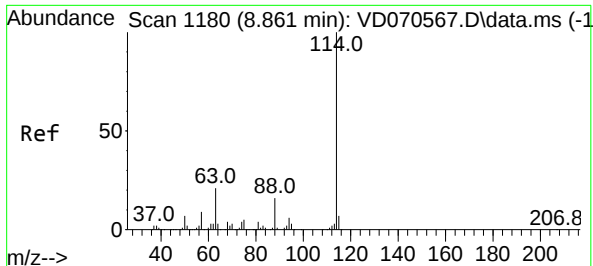
Tgt Ion: 56 Resp: 9439
Ion Ratio Lower Upper
56 100
69 203.4 27.4 41.2#
84 146.9 73.6 110.4#



#33
1,2-Dichloroethane-d4
Concen: 50.524 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 65 Resp: 236777
Ion Ratio Lower Upper
65 100
67 55.3 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD070644.D

Acq: 08 Oct 2021 17:44

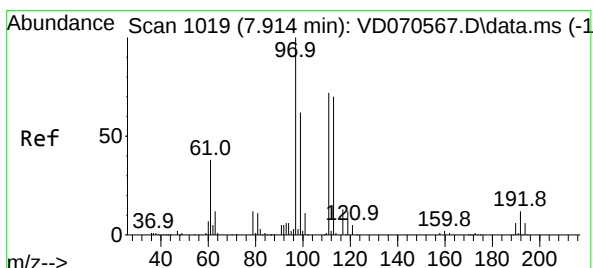
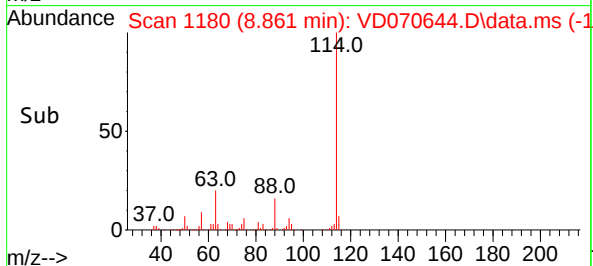
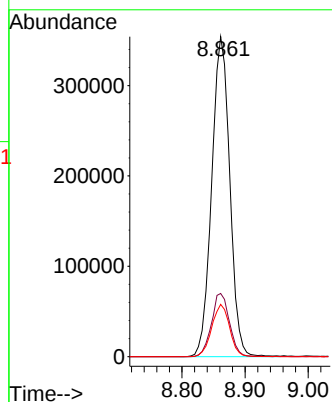
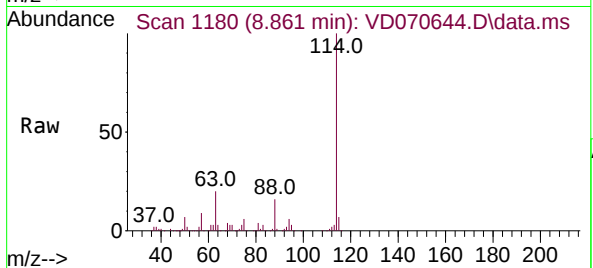
Tgt Ion:114 Resp: 703861

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.8

88 16.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.340 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD070644.D

Acq: 08 Oct 2021 17:44

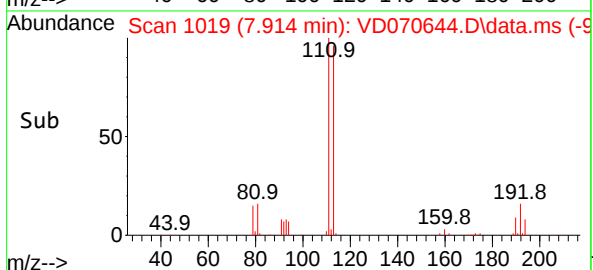
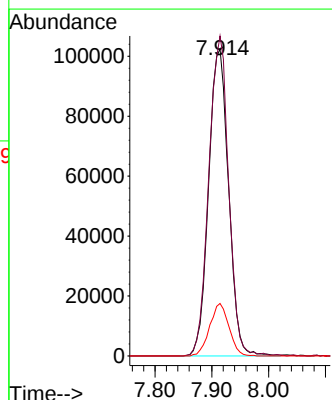
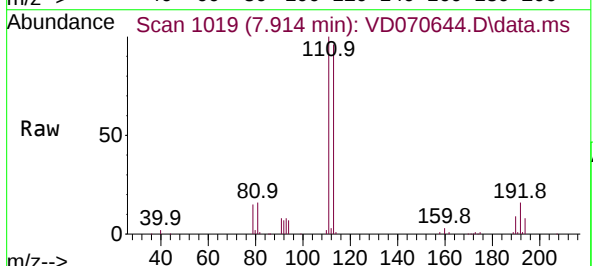
Tgt Ion:113 Resp: 249612

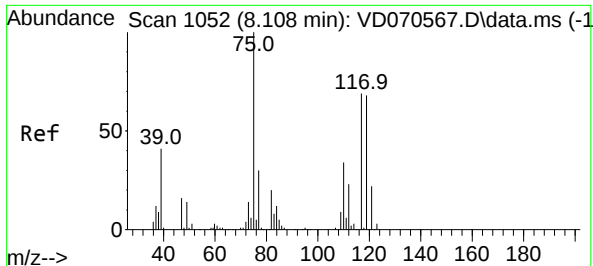
Ion Ratio Lower Upper

113 100

111 103.6 83.1 124.7

192 16.5 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.528 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD070644.D

Acq: 08 Oct 2021 17:44

Tgt Ion: 75 Resp: 33851

Ion Ratio Lower Upper

75 100

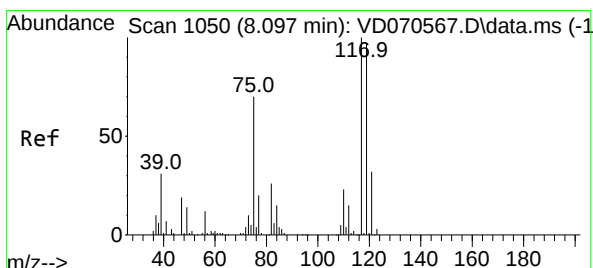
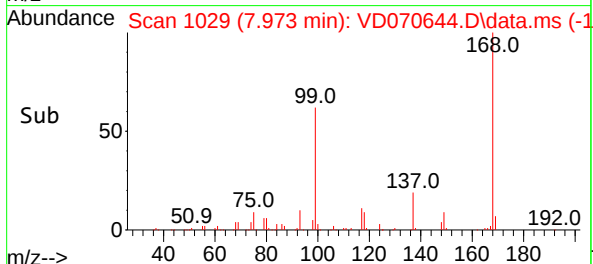
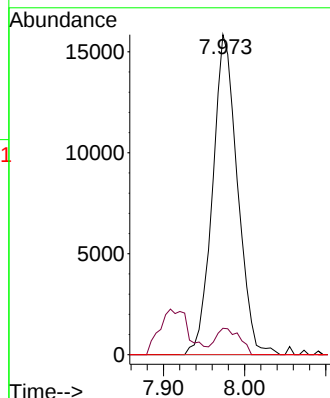
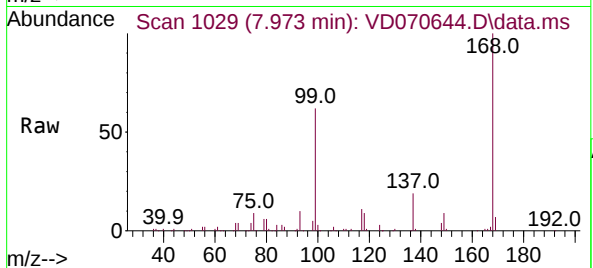
110 7.9 17.2 51.6#

77 0.0 24.2 36.4#

Instrument :

MSVOA_D

ClientSampleId :



#38

Carbon Tetrachloride

Concen: 5.637 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.124 min

Lab File: VD070644.D

Acq: 08 Oct 2021 17:44

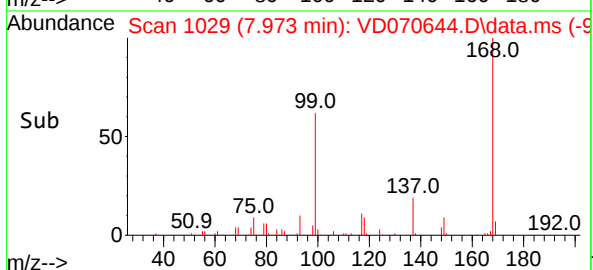
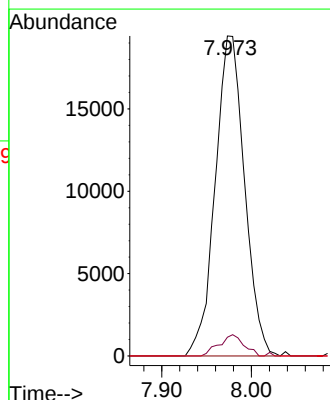
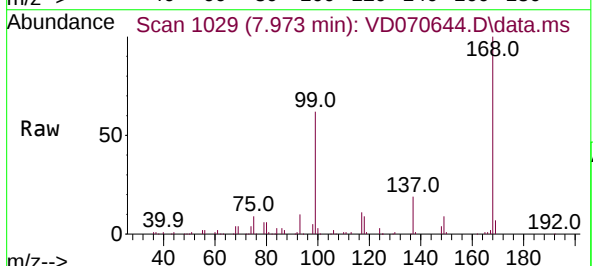
Tgt Ion:117 Resp: 44100

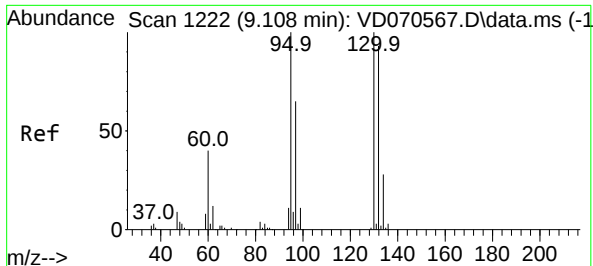
Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

121 0.0 25.4 38.0#





#44

Trichloroethene

Concen: 546.682 ug/l

RT: 9.108 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD070644.D

Acq: 08 Oct 2021 17:44

Tgt Ion:130 Resp: 2970165

Ion Ratio Lower Upper

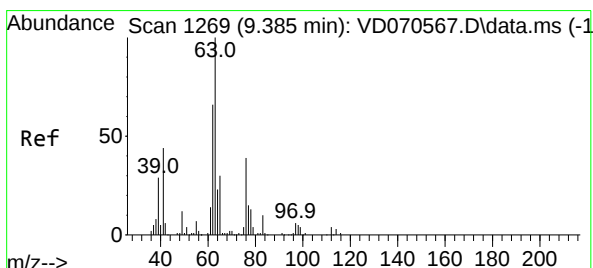
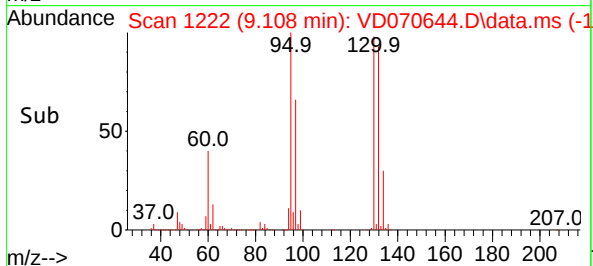
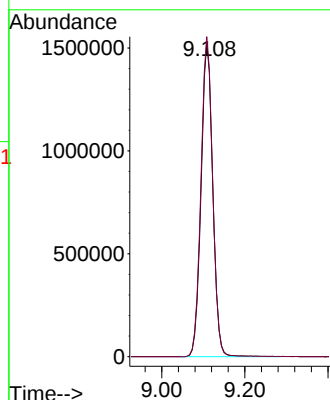
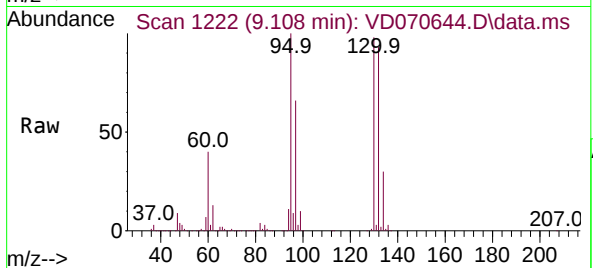
130 100

95 101.8 0.0 200.8

Instrument :

MSVOA_D

ClientSampled :



#45

1,2-Dichloropropane

Concen: 1.207 ug/l

RT: 9.108 min Scan# 1222

Delta R.T. -0.276 min

Lab File: VD070644.D

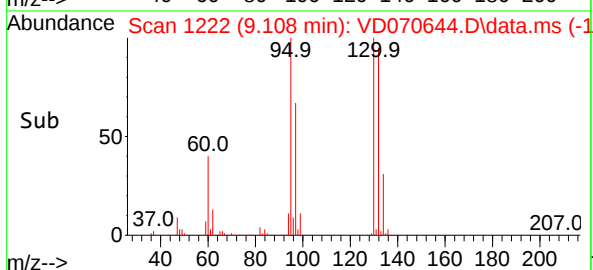
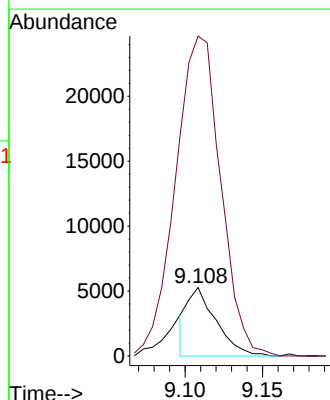
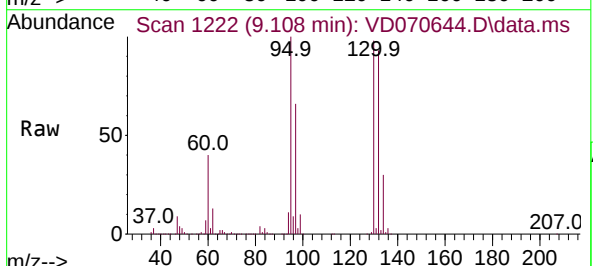
Acq: 08 Oct 2021 17:44

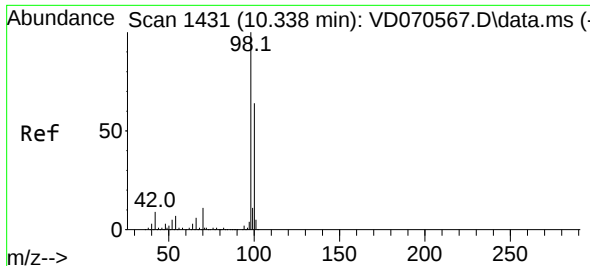
Tgt Ion: 63 Resp: 6789

Ion Ratio Lower Upper

63 100

65 467.3 23.8 35.8#

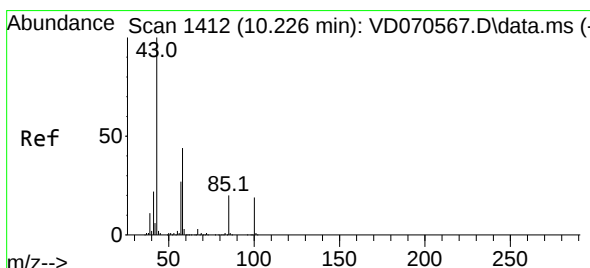
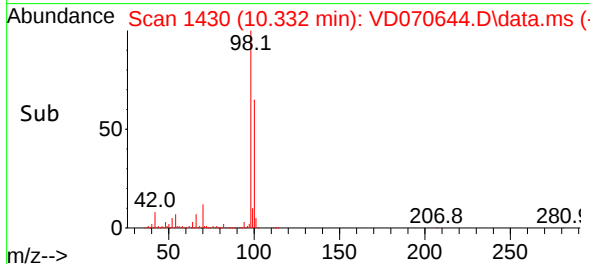
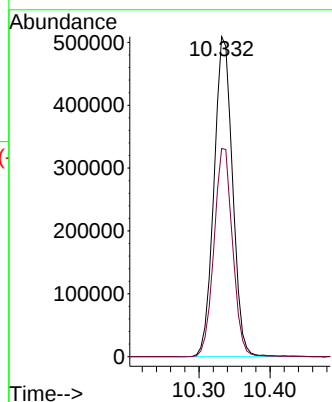
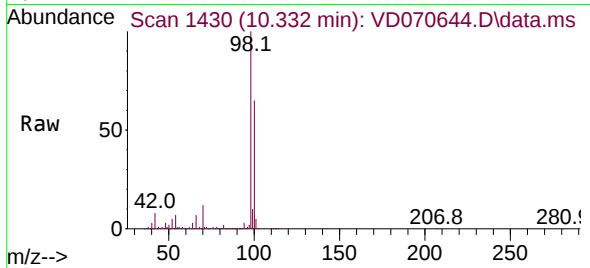




#50
Toluene-d8
Concen: 51.598 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

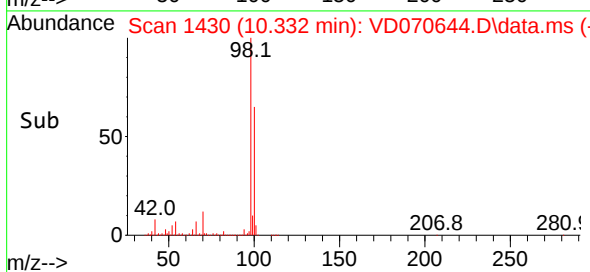
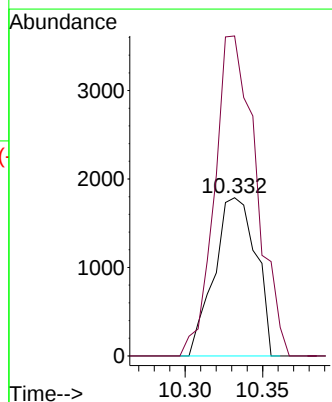
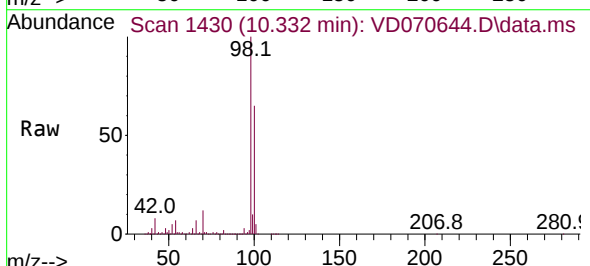
Instrument :
MSVOA_D
ClientSampleId :

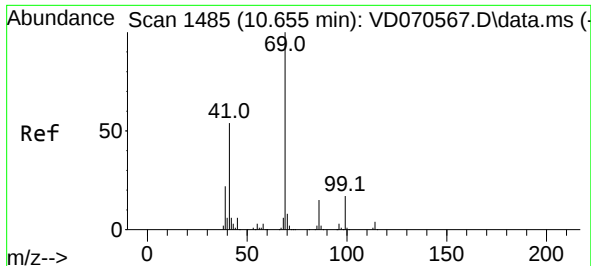
Tgt Ion: 98 Resp: 923080
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 1.425 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.106 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 43 Resp: 3346
Ion Ratio Lower Upper
43 100
58 200.7 35.0 52.6#

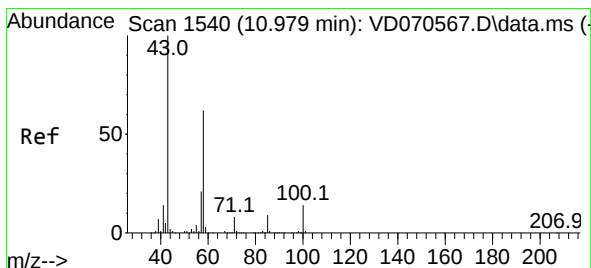
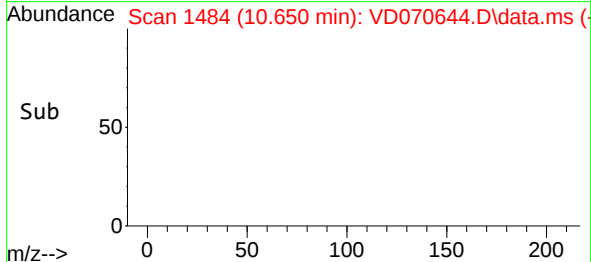
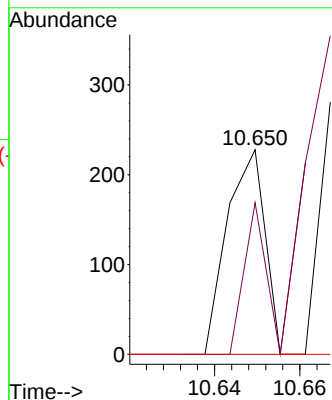
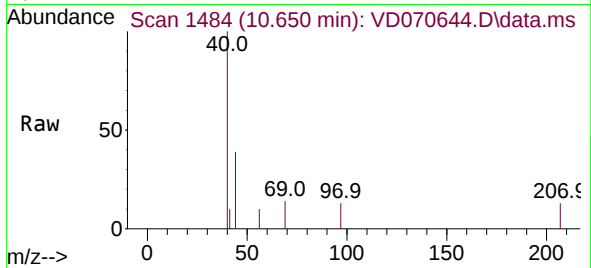




#56
Ethyl methacrylate
Concen: 1.403 ug/l
RT: 10.650 min Scan# 1484
Delta R.T. -0.005 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

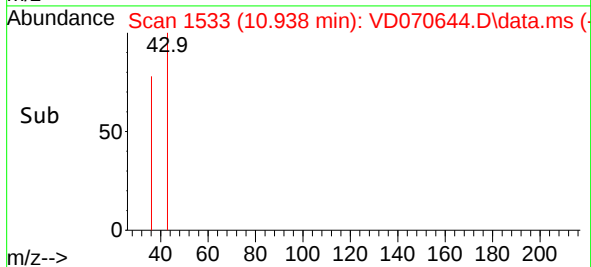
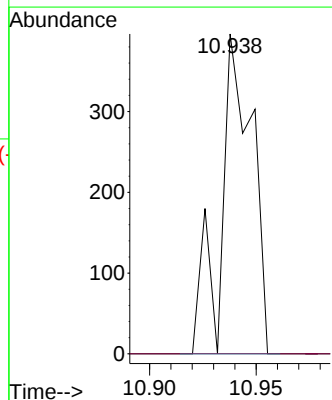
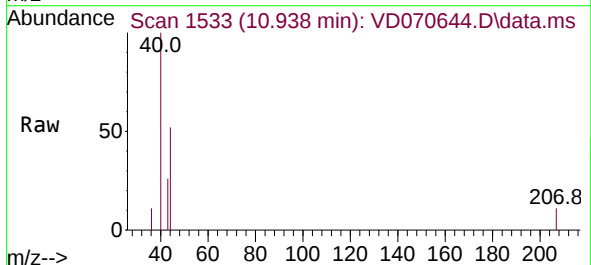
Instrument :
MSVOA_D
ClientSampleId :

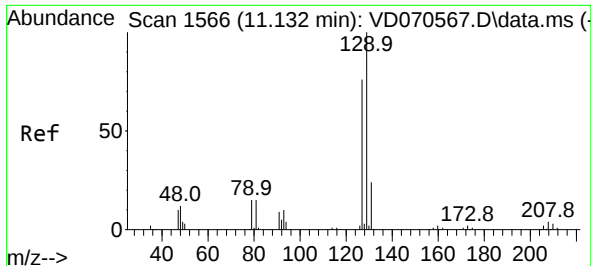
Tgt Ion: 69 Resp: 140
Ion Ratio Lower Upper
69 100
41 0.0 44.7 67.1#
39 0.0 19.5 29.3#



#59
2-Hexanone
Concen: Below Cal
RT: 10.938 min Scan# 1533
Delta R.T. -0.041 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 43 Resp: 407
Ion Ratio Lower Upper
43 100
58 0.0 30.4 91.3#

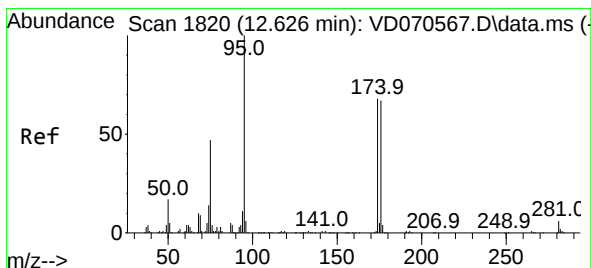
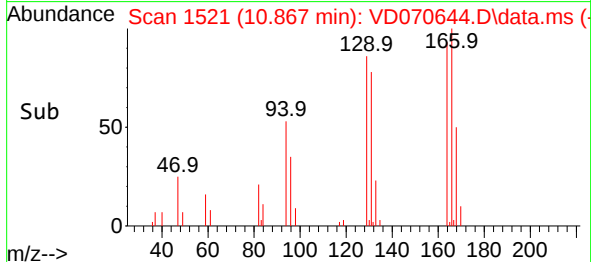
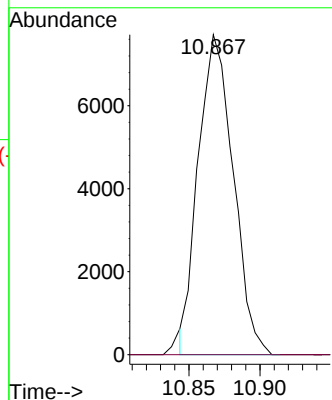
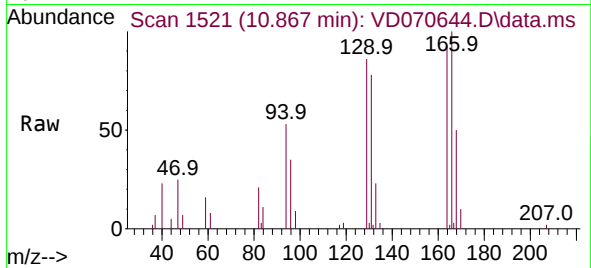




#60
Dibromochloromethane
Concen: 2.785 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.265 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

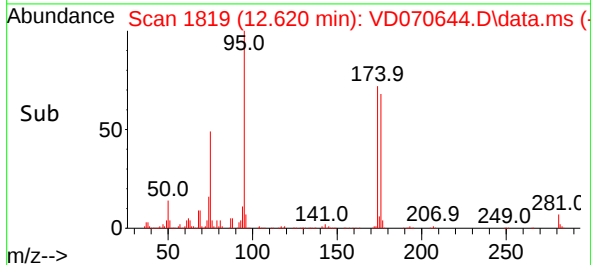
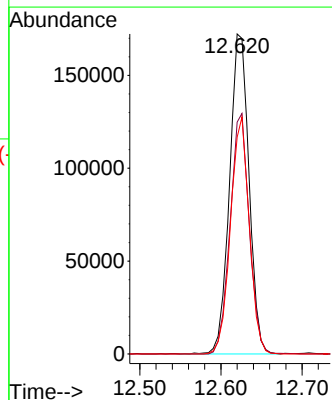
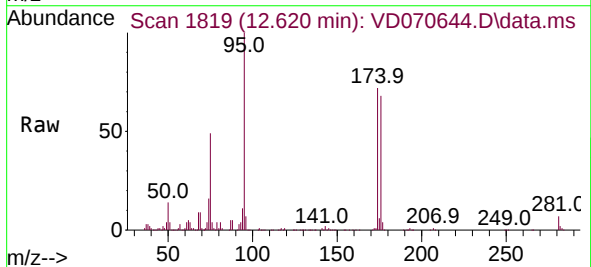
Instrument :
MSVOA_D
ClientSampleId :

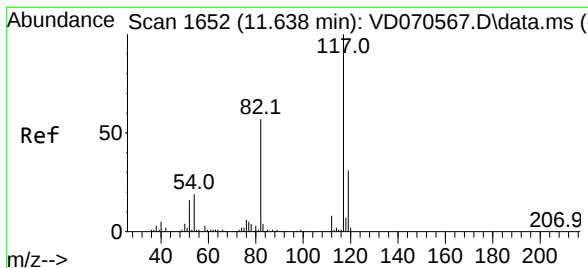
Tgt Ion:129 Resp: 13191
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 47.835 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 95 Resp: 286014
Ion Ratio Lower Upper
95 100
174 74.0 0.0 138.0
176 71.4 0.0 135.6

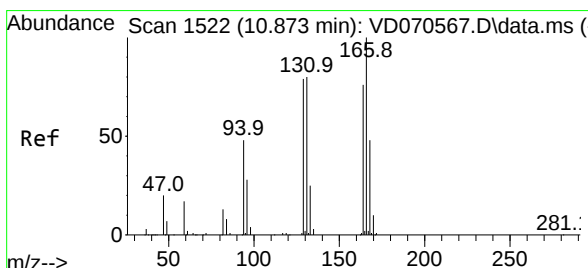
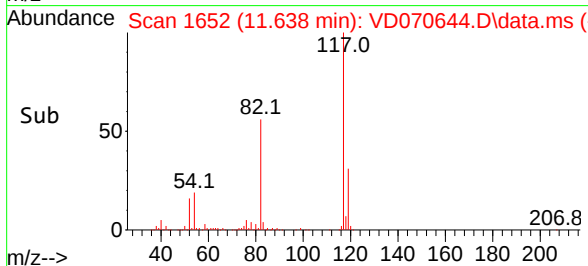
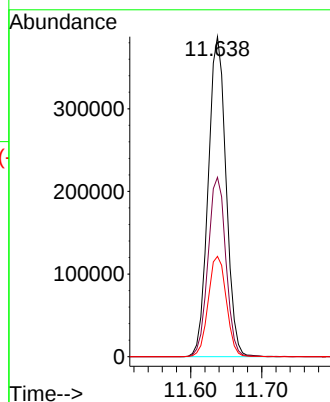
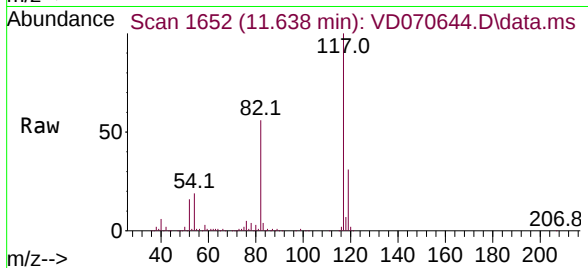




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

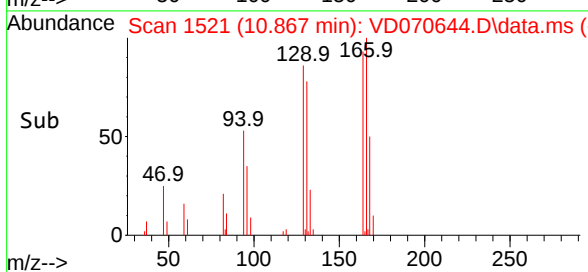
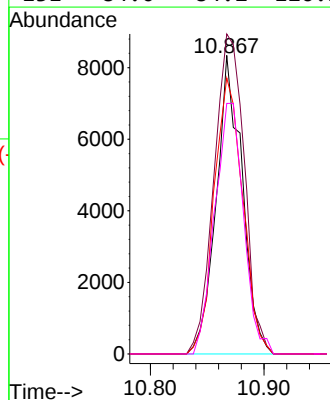
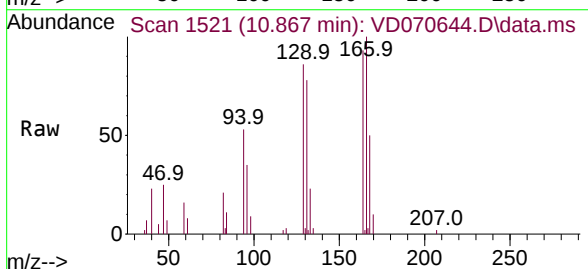
Instrument :
MSVOA_D
ClientSampleId :

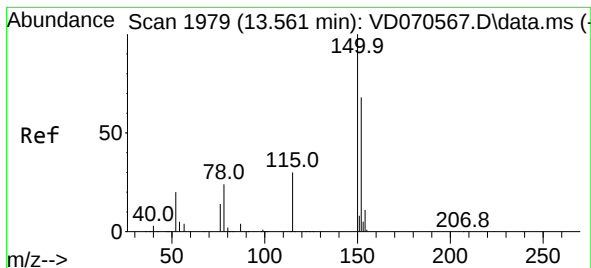
Tgt Ion:	117	Resp:	675066
Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.4	68.2
119	31.3	24.7	37.1



#64
Tetrachloroethene
Concen: 3.053 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.006 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion:	164	Resp:	13216
Ion	Ratio	Lower	Upper
164	100		
166	107.2	105.8	158.6
129	92.5	83.8	125.6
131	84.0	84.2	126.2#

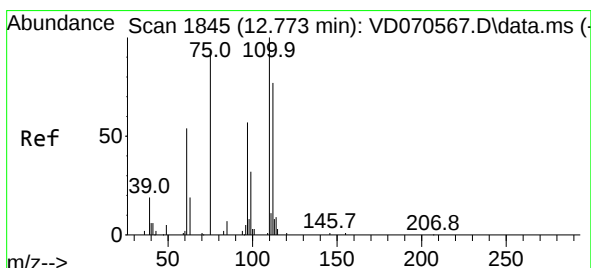
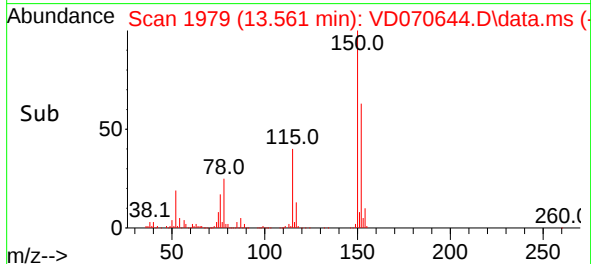
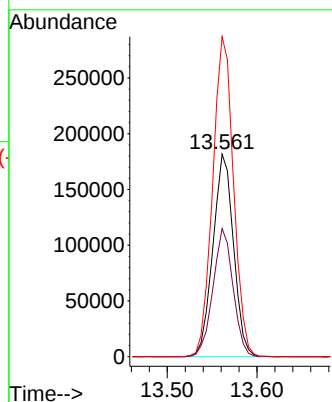
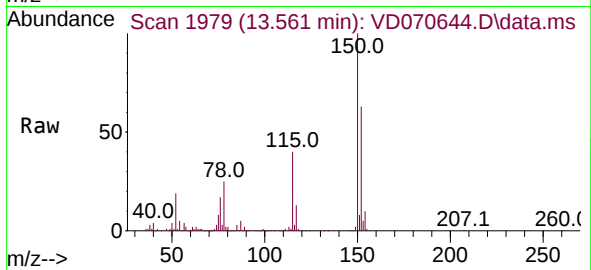




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

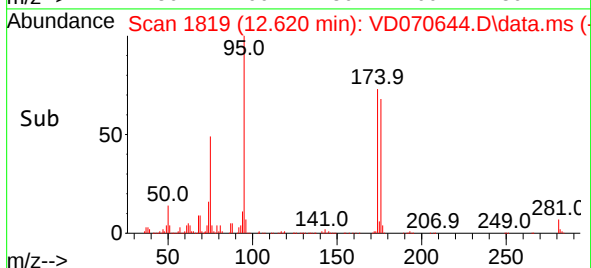
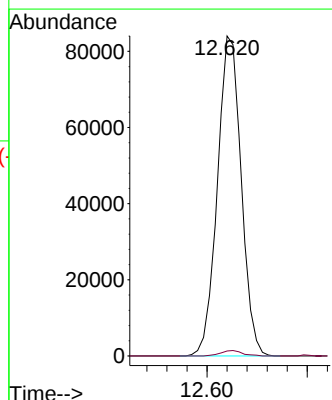
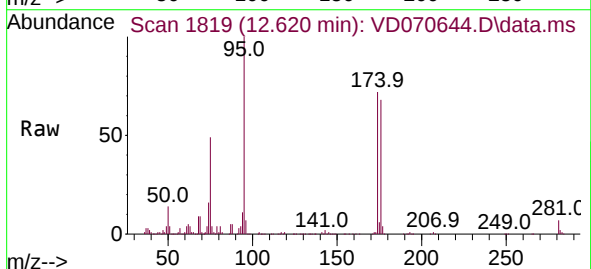
Instrument :
MSVOA_D
ClientSampleId :

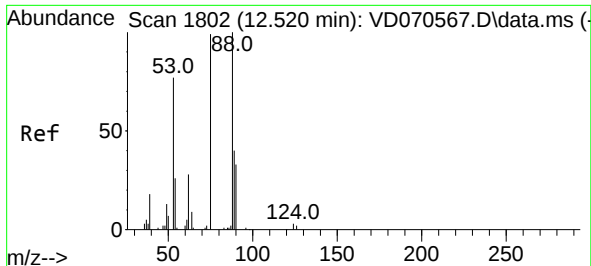
Tgt Ion:152 Resp: 289513
Ion Ratio Lower Upper
152 100
115 61.6 31.9 95.7
150 159.6 0.0 350.0



#76
1,2,3-Trichloropropane
Concen: 52.802 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion: 75 Resp: 138364
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#

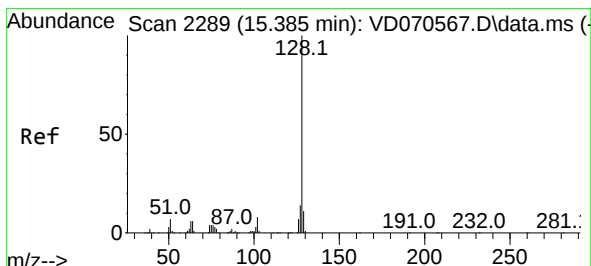
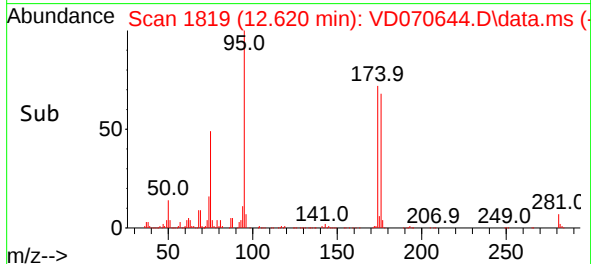
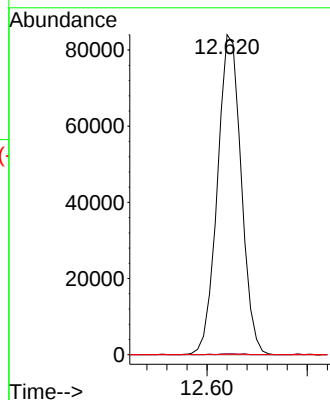
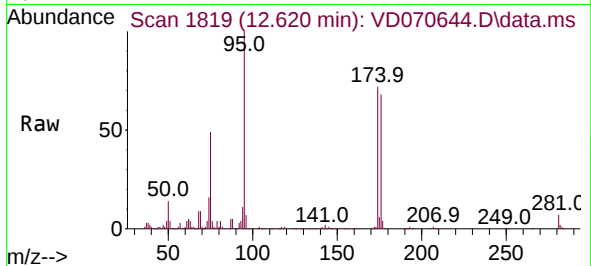




#81
trans-1,4-Dichloro-2-butene
Concen: 117.231 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 138364
Ion Ratio Lower Upper
75 100
53 0.3 64.5 96.7#
89 0.0 35.3 52.9#



#95
Naphthalene
Concen: 2.508 ug/l
RT: 15.402 min Scan# 2292
Delta R.T. 0.017 min
Lab File: VD070644.D
Acq: 08 Oct 2021 17:44

Tgt Ion:128 Resp: 180
Ion Ratio Lower Upper
128 100
127 0.0 10.9 16.3#
129 0.0 8.6 12.8#

