

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092721\
 Data File : VD070486.D
 Acq On : 27 Sep 2021 19:10
 Operator : VA/SY
 Sample : M3889-04
 Misc : 5.74G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SUP-UST-04-(13-15)

Quant Time: Sep 28 04:16:54 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)

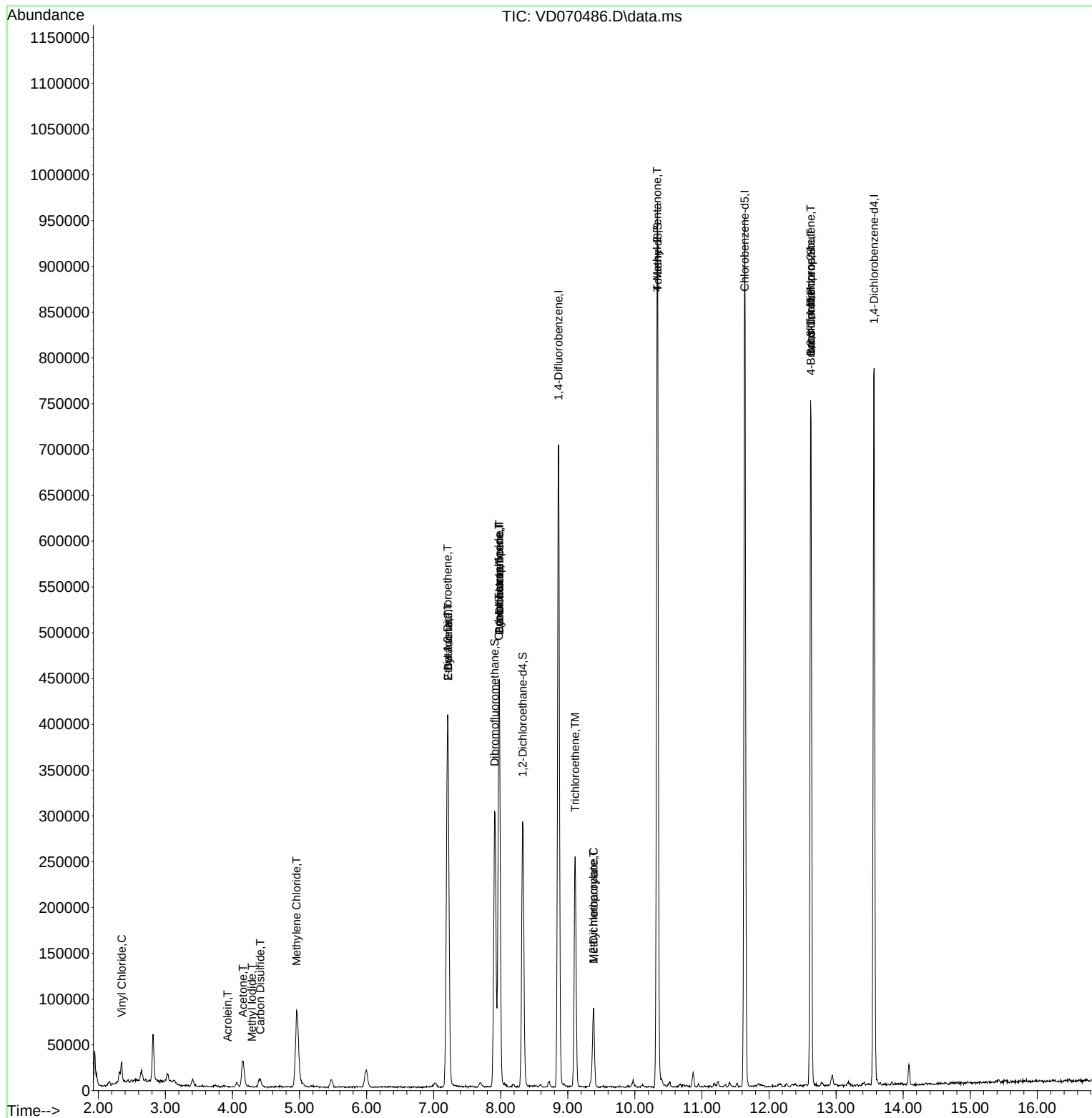
Internal Standards						
1) Pentafluorobenzene	7.979	168	316138	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	612549	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	570349	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	212573	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	231237	56.965	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.920%			
35) Dibromofluoromethane	7.909	113	233036	53.446	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.900%			
50) Toluene-d8	10.338	98	694551	43.873	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 87.740%			
62) 4-Bromofluorobenzene	12.626	95	218984	39.580	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 79.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.997	85	81	Below Cal	#	43
3) Chloromethane	2.203	50	559	Below Cal	#	42
4) Vinyl Chloride	2.350	62	12263	2.465	ug/l #	84
5) Bromomethane	2.768	94	950	Below Cal	#	57
6) Chloroethane	2.921	64	55	Below Cal	#	43
10) Methyl Iodide	4.291	142	154	1.067	ug/l #	39
13) Acrolein	3.926	56	639	3.167	ug/l #	63
16) Acetone	4.156	43	52530	72.483	ug/l	93
17) Carbon Disulfide	4.415	76	19531	1.438	ug/l	98
18) Methyl Acetate	4.726	43	1374	Below Cal	#	56
20) Methylene Chloride	4.956	84	70318	9.718	ug/l	95
25) 2-Butanone	7.214	43	13338	13.826	ug/l #	61
27) cis-1,2-Dichloroethene	7.209	96	262612	55.799	ug/l	89
31) Cyclohexane	7.979	56	10526	1.505	ug/l #	38
36) 1,1-Dichloropropene	7.979	75	27291	4.168	ug/l #	49
37) Ethyl Acetate	7.214	43	13338	5.448	ug/l #	1
38) Carbon Tetrachloride	7.973	117	34154	5.274	ug/l #	17
44) Trichloroethene	9.108	130	92021	20.067	ug/l	97
45) 1,2-Dichloropropane	9.385	63	34544	6.862	ug/l	99
48) Methyl methacrylate	9.385	41	18253	8.733	ug/l #	21
51) 4-Methyl-2-Pentanone	10.332	43	3040	1.298	ug/l #	1
71) Bromoform	12.620	173	2145	1.003	ug/l #	1
76) 1,2,3-Trichloropropane	12.620	75	106485	49.523	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	106485	124.085	ug/l #	18

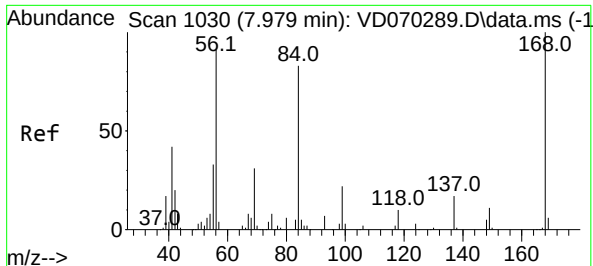
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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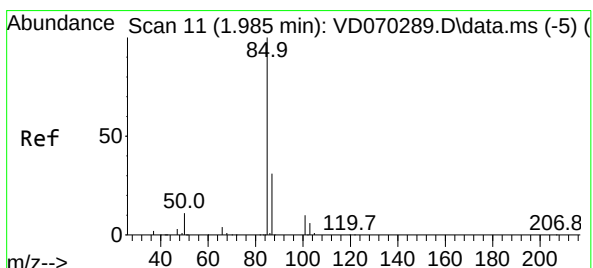
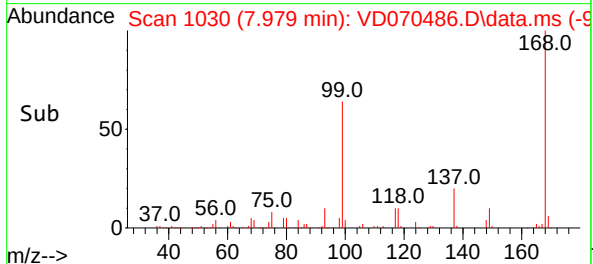
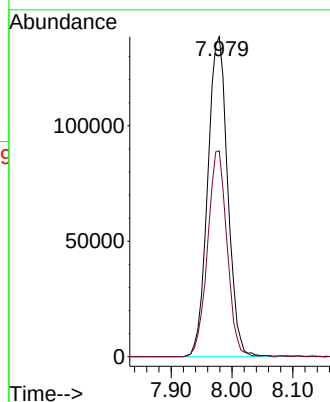
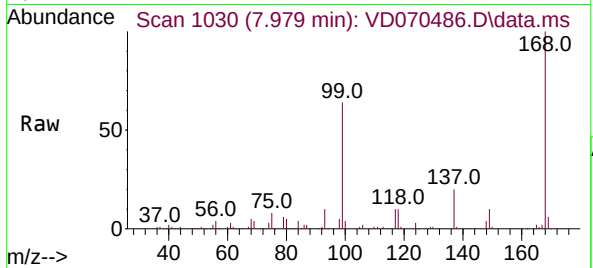




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

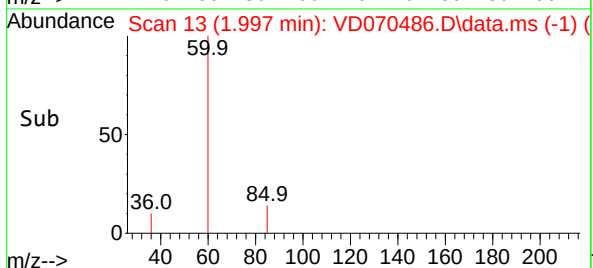
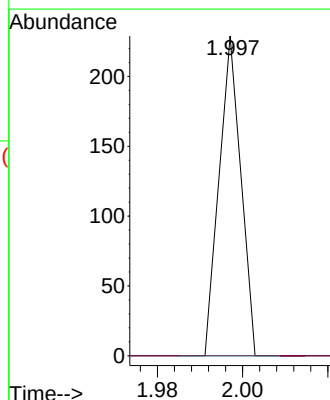
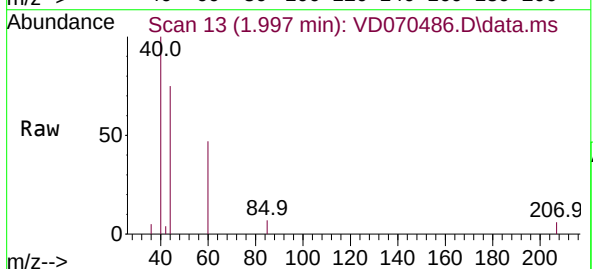
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MSVOA_D
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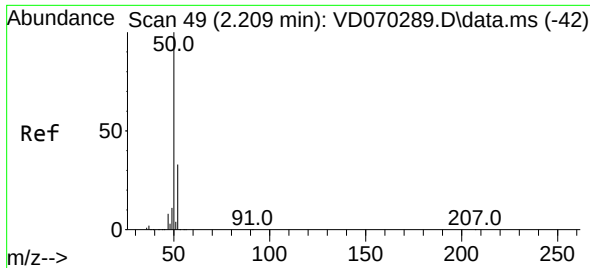
Tgt Ion:168 Resp: 316138
Ion Ratio Lower Upper
168 100
99 64.3 50.8 76.2



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.997 min Scan# 13
Delta R.T. 0.012 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 85 Resp: 81
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#

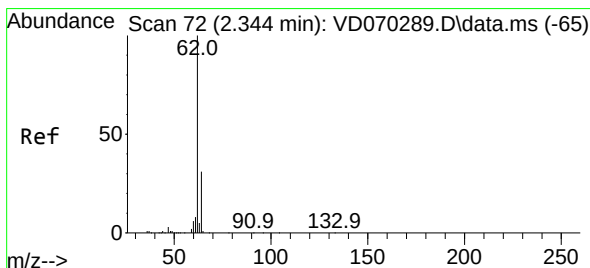
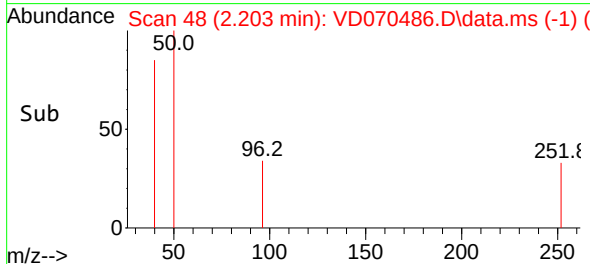
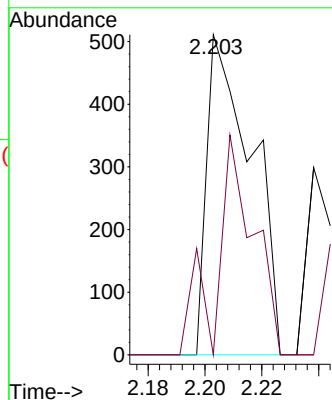
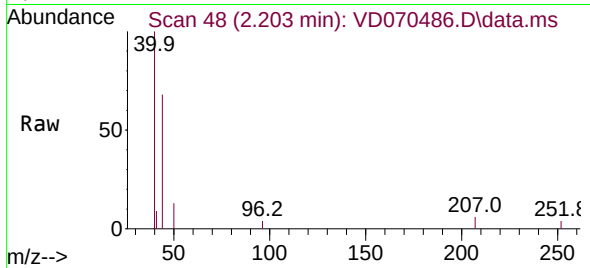




#3
Chloromethane
Concen: Below Cal
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

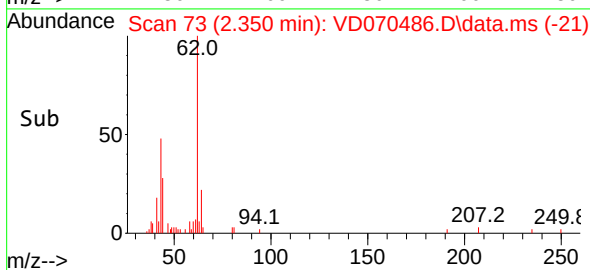
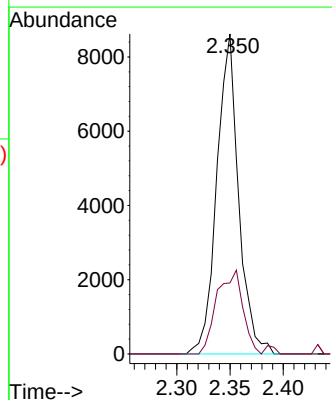
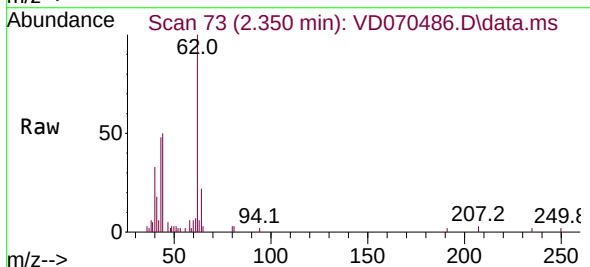
Instrument :
MSVOA_D
ClientSampleId :
SUP-UST-04-(13-15)

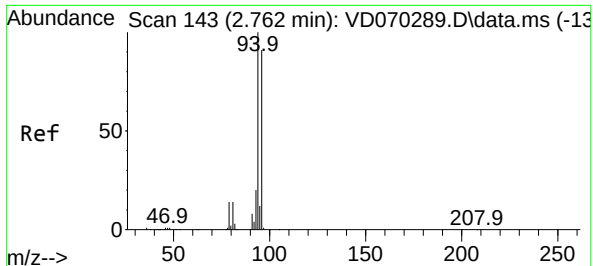
Tgt Ion: 50 Resp: 559
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#



#4
Vinyl Chloride
Concen: 2.465 ug/l
RT: 2.350 min Scan# 73
Delta R.T. 0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 62 Resp: 12263
Ion Ratio Lower Upper
62 100
64 22.2 24.6 36.8#

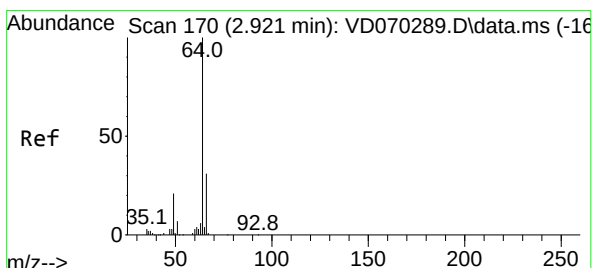
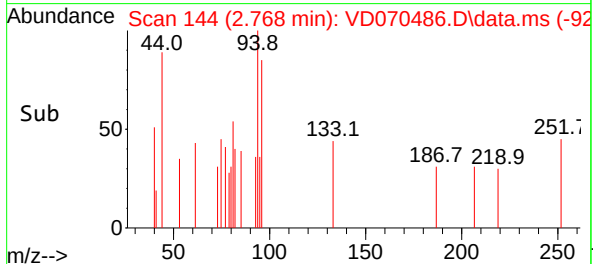
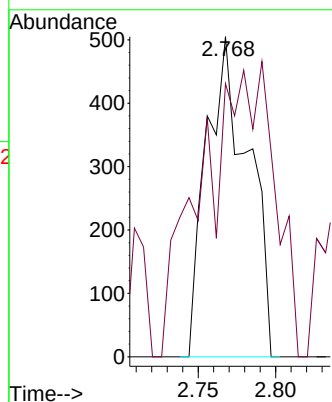
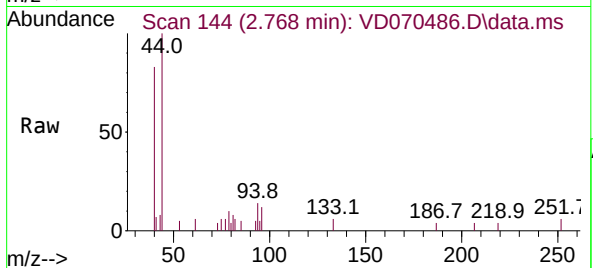




#5
Bromomethane
Concen: Below Cal
RT: 2.768 min Scan# 144
Delta R.T. 0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

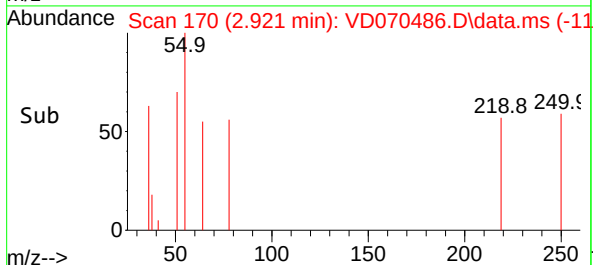
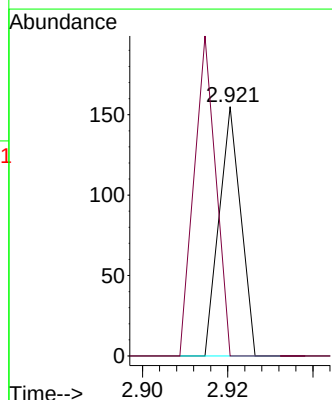
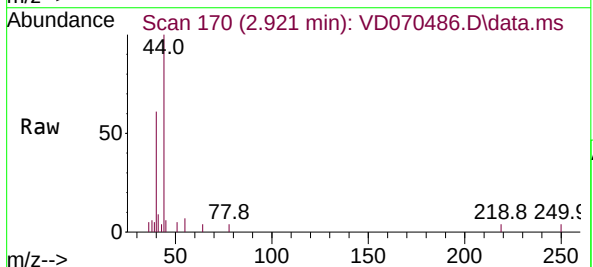
Instrument :
MSVOA_D
ClientSampleId :
SUP-UST-04-(13-15)

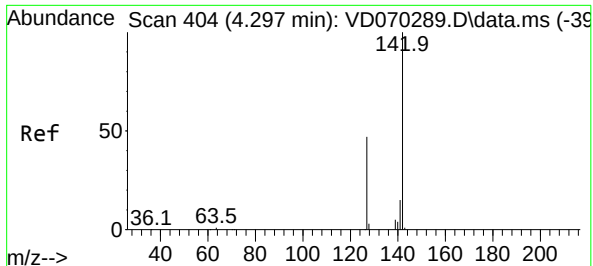
Tgt Ion: 94 Resp: 950
Ion Ratio Lower Upper
94 100
96 50.3 73.0 109.6#



#6
Chloroethane
Concen: Below Cal
RT: 2.921 min Scan# 170
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#





#10

Methyl Iodide

Concen: 1.067 ug/l

RT: 4.291 min Scan# 403

Delta R.T. -0.006 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

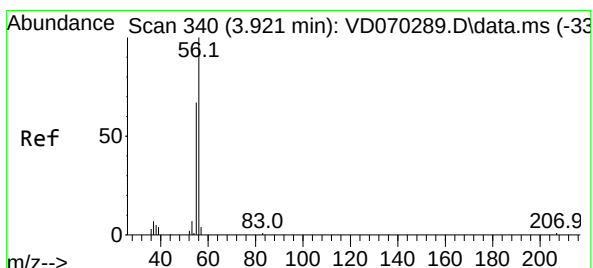
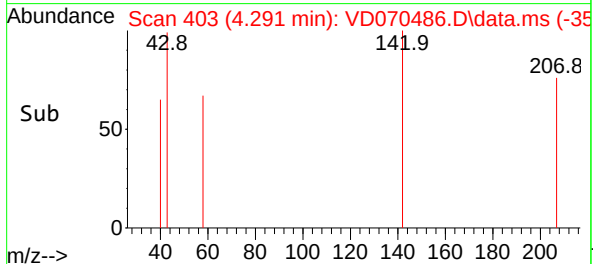
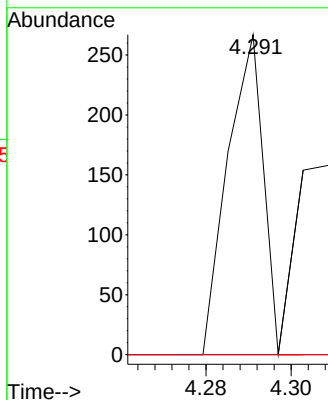
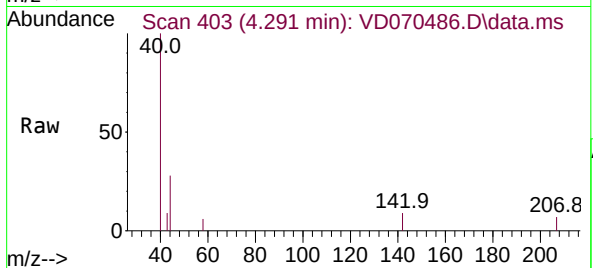
Instrument :

MSVOA_D

ClientSampleId :

SUP-UST-04-(13-15)

Tgt Ion:	142	Resp:	154
Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.9	55.3#
141	0.0	11.8	17.6#



#13

Acrolein

Concen: 3.167 ug/l

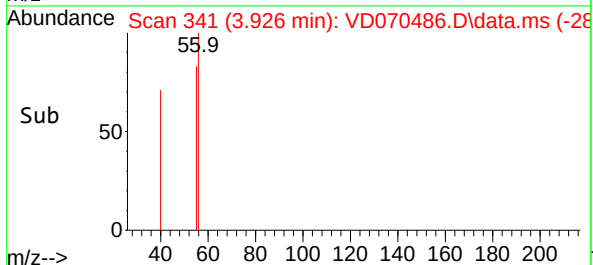
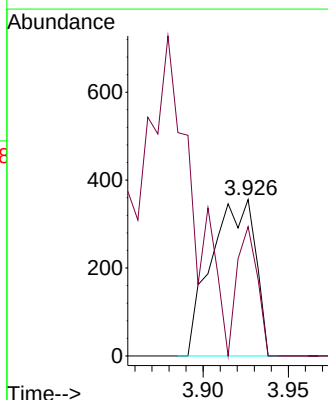
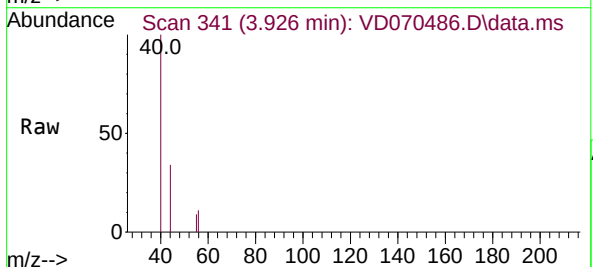
RT: 3.926 min Scan# 341

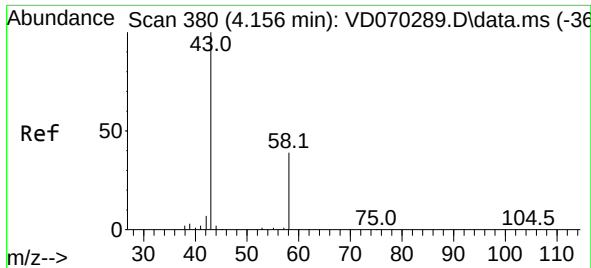
Delta R.T. 0.006 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

Tgt Ion:	56	Resp:	639
Ion	Ratio	Lower	Upper
56	100		
55	38.0	54.2	81.2#

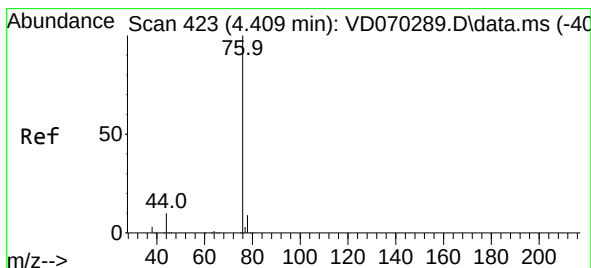
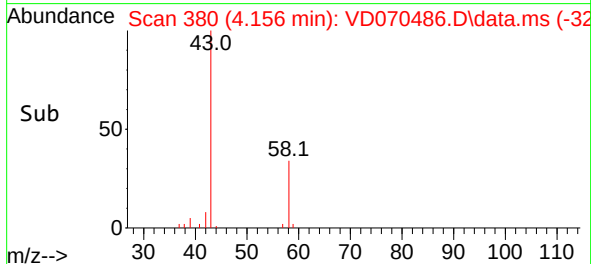
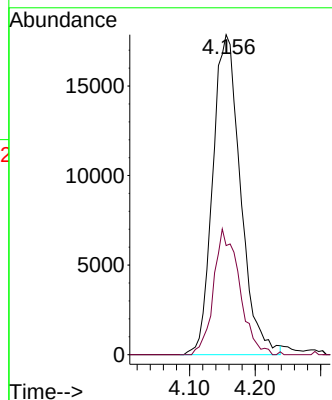
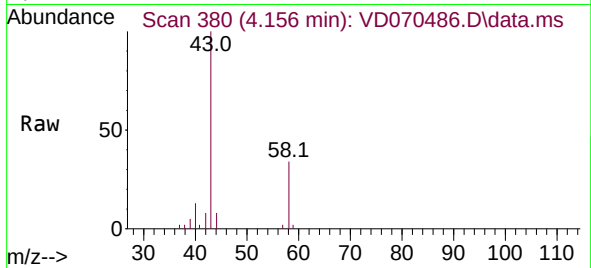




#16
Acetone
Concen: 72.483 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

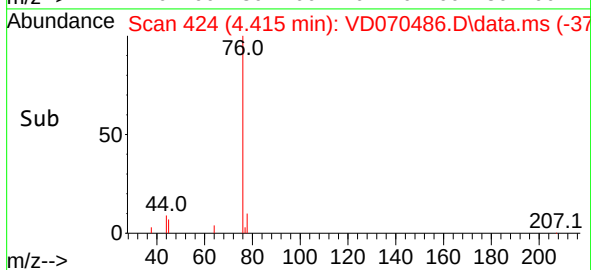
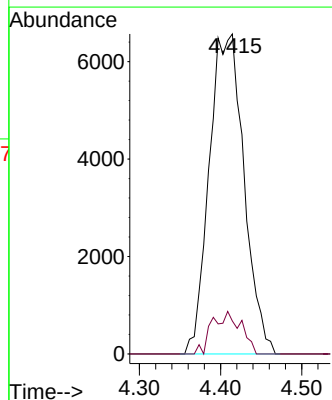
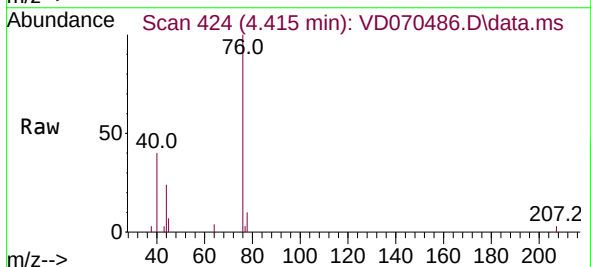
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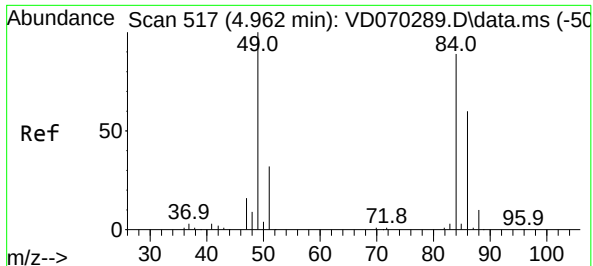
Tgt Ion: 43 Resp: 52530
Ion Ratio Lower Upper
43 100
58 34.1 30.9 46.3



#17
Carbon Disulfide
Concen: 1.438 ug/l
RT: 4.415 min Scan# 424
Delta R.T. 0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 76 Resp: 19531
Ion Ratio Lower Upper
76 100
78 10.3 7.5 11.3

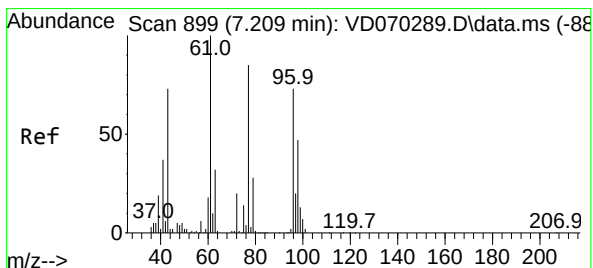
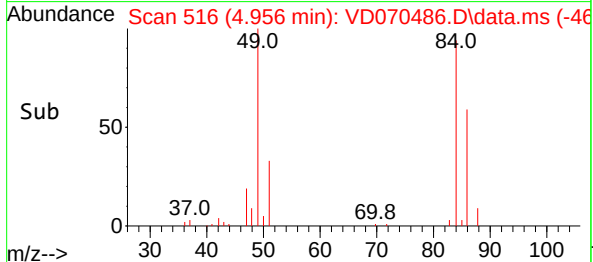
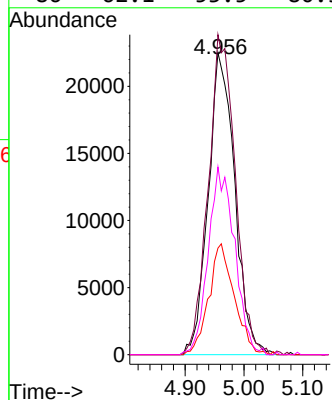
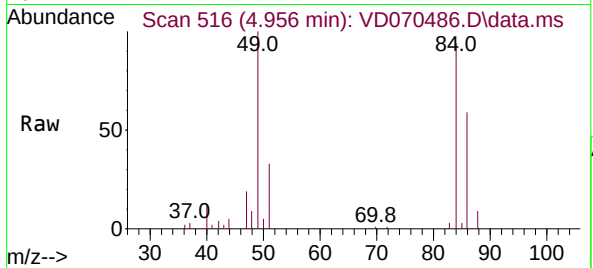




#20
Methylene Chloride
Concen: 9.718 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

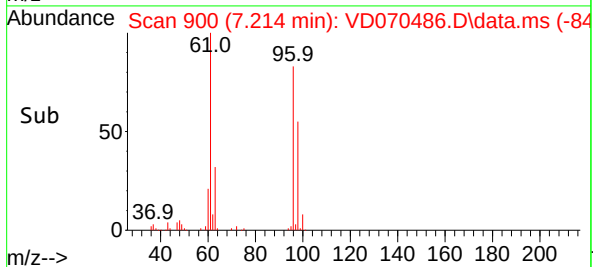
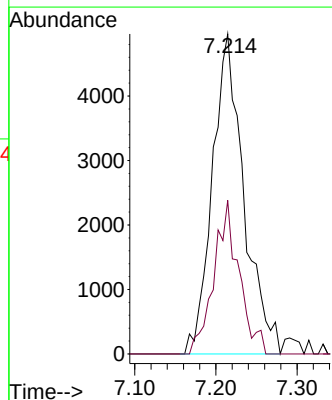
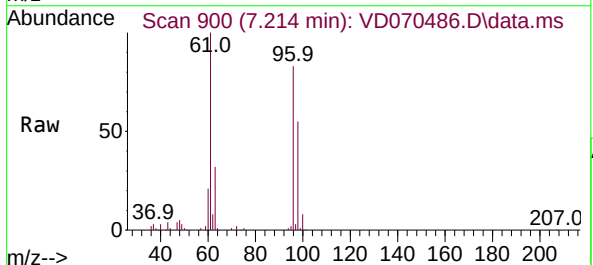
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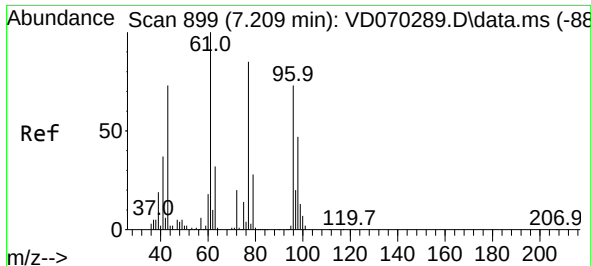
Tgt Ion:	84	Resp:	70318
Ion	Ratio	Lower	Upper
84	100		
49	105.9	89.6	134.4
51	35.3	28.6	43.0
86	62.1	53.5	80.3



#25
2-Butanone
Concen: 13.826 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion:	43	Resp:	13338
Ion	Ratio	Lower	Upper
43	100		
72	48.0	22.2	33.4#





#27

cis-1,2-Dichloroethene

Concen: 55.799 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.000 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

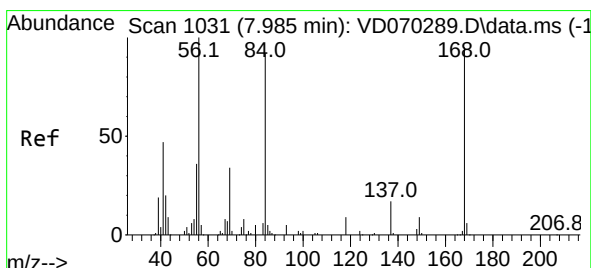
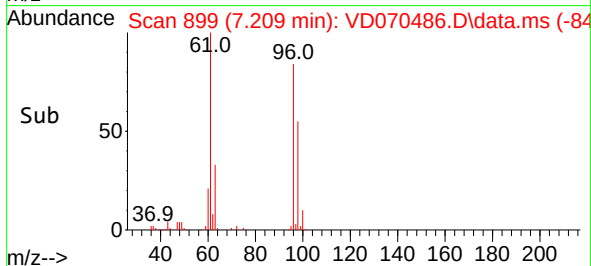
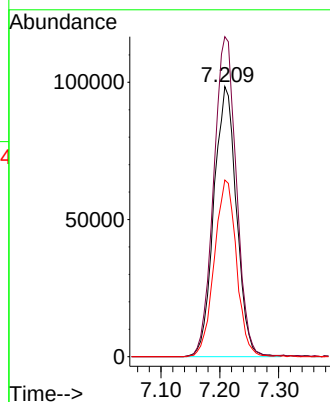
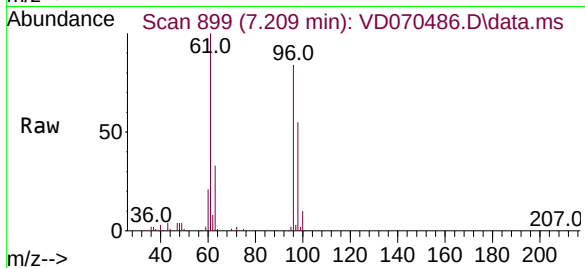
Instrument :

MSVOA_D

ClientSampleId :

SUP-UST-04-(13-15)

Tgt Ion:	96	Resp:	262612
Ion	Ratio	Lower	Upper
96	100		
61	119.1	0.0	277.4
98	64.2	0.0	130.0



#31

Cyclohexane

Concen: 1.505 ug/l

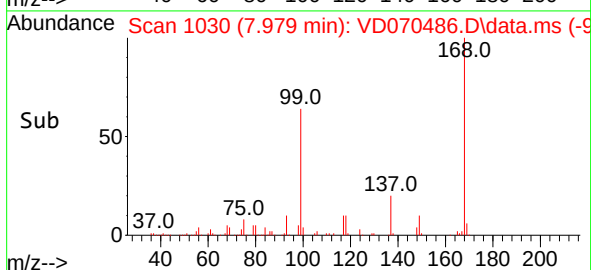
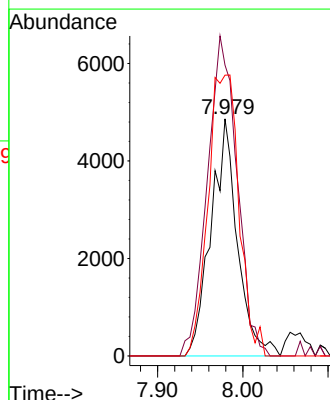
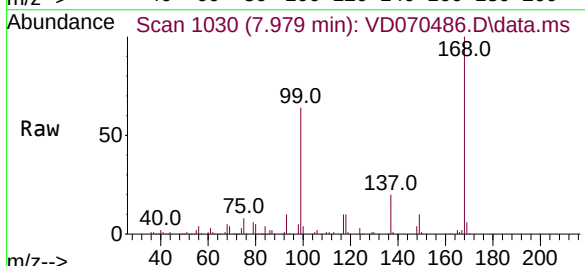
RT: 7.979 min Scan# 1030

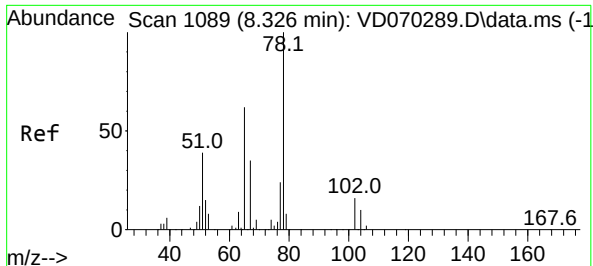
Delta R.T. -0.006 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

Tgt Ion:	56	Resp:	10526
Ion	Ratio	Lower	Upper
56	100		
69	122.7	26.9	40.3#
84	118.4	73.6	110.4#

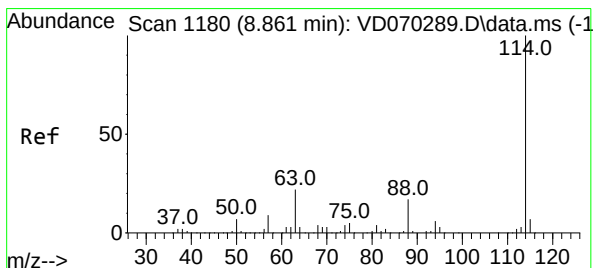
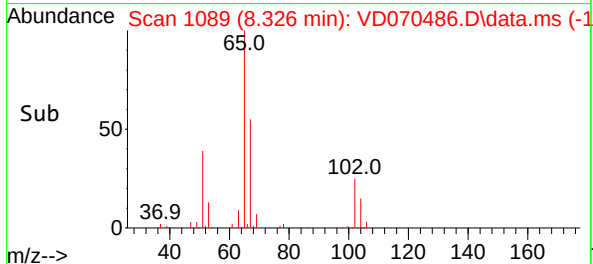
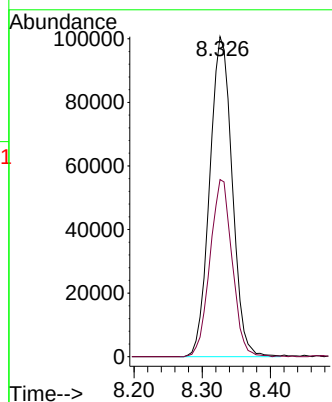
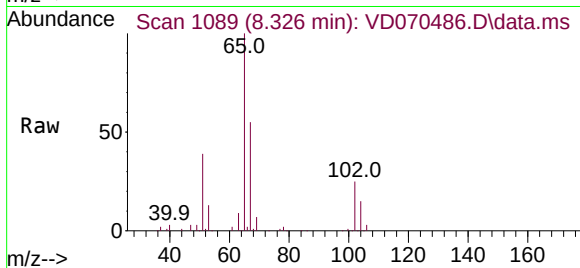




#33
1,2-Dichloroethane-d4
Concen: 56.965 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

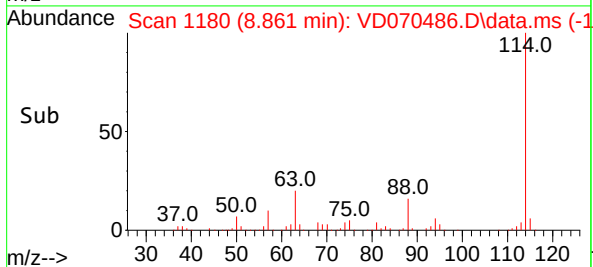
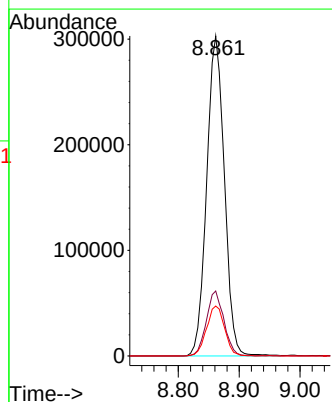
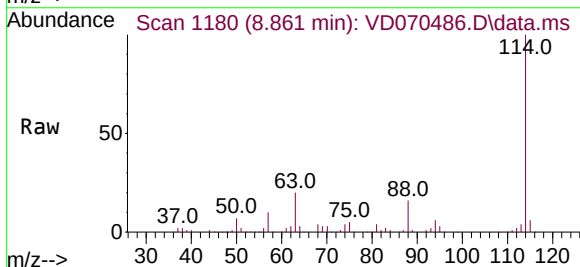
Instrument :
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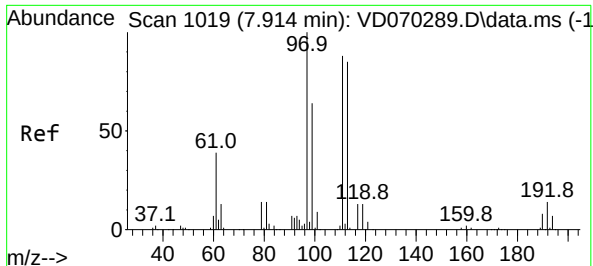
Tgt Ion: 65 Resp: 231237
Ion Ratio Lower Upper
65 100
67 54.5 0.0 111.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion:114 Resp: 612549
Ion Ratio Lower Upper
114 100
63 20.3 0.0 43.4
88 15.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 53.446 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

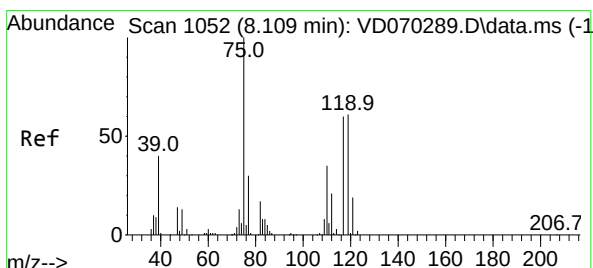
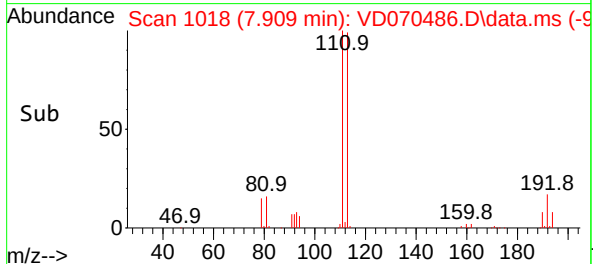
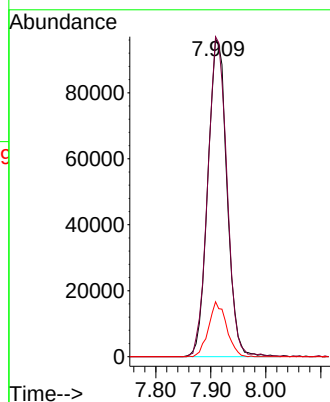
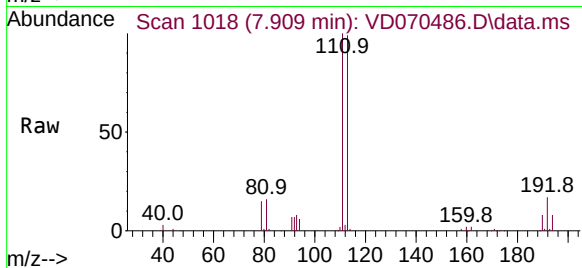
Tgt Ion:113 Resp: 233036

Ion Ratio Lower Upper

113 100

111 100.8 81.4 122.2

192 16.2 13.0 19.6



#36

1,1-Dichloropropene

Concen: 4.168 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.129 min

Lab File: VD070486.D

Acq: 27 Sep 2021 19:10

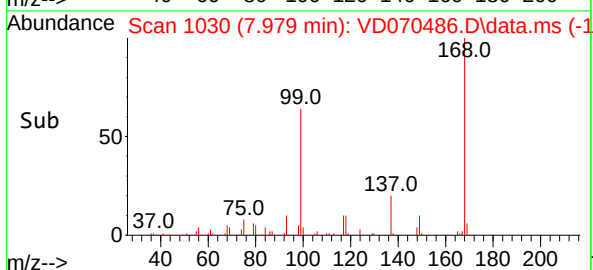
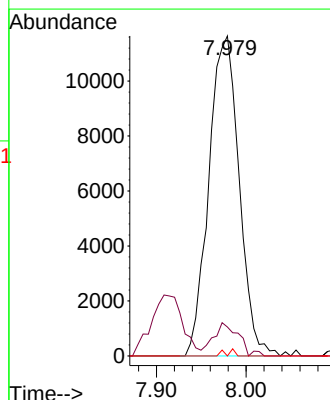
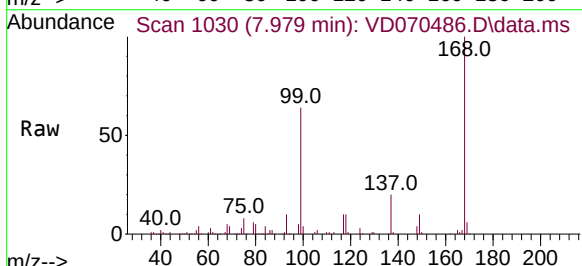
Tgt Ion: 75 Resp: 27291

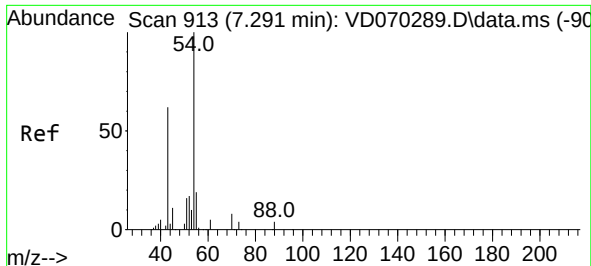
Ion Ratio Lower Upper

75 100

110 8.7 17.9 53.7#

77 0.0 25.3 37.9#

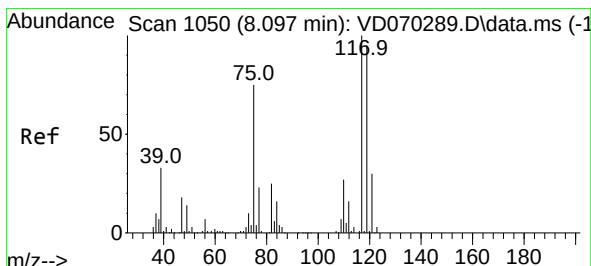
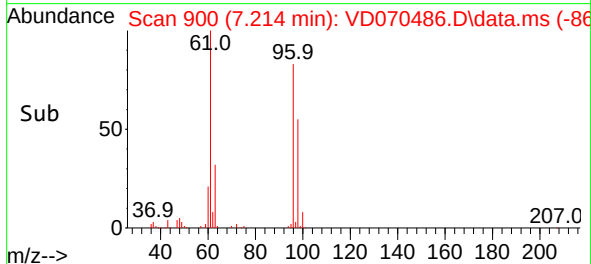
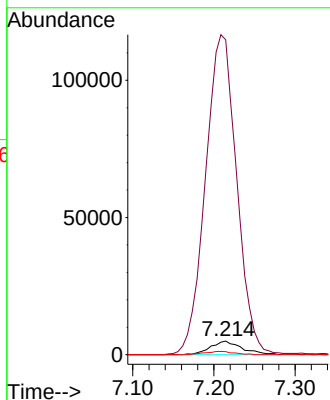
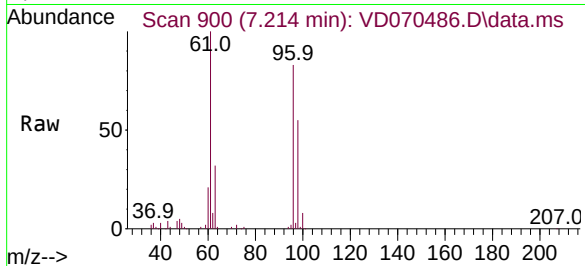




#37
Ethyl Acetate
Concen: 5.448 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.077 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

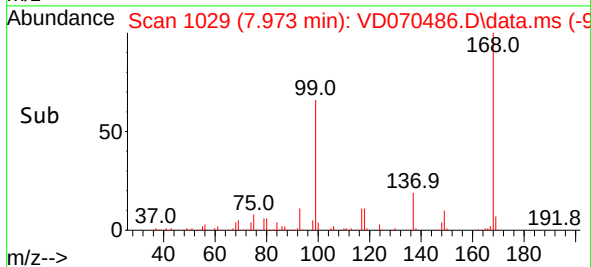
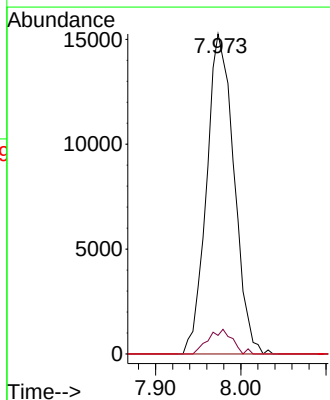
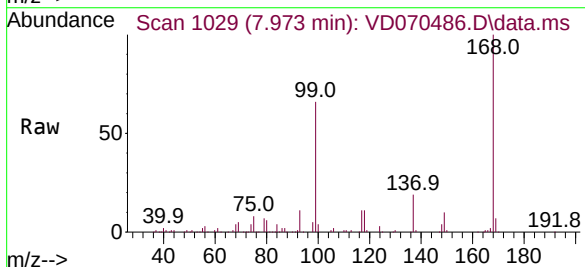
Instrument :
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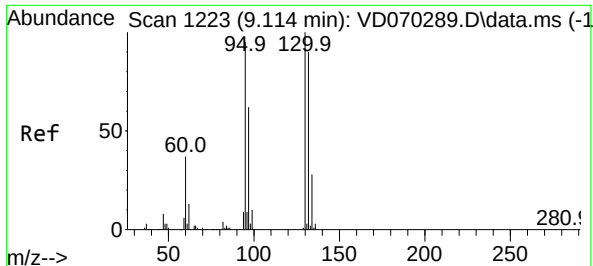
Tgt Ion: 43 Resp: 13338
Ion Ratio Lower Upper
43 100
61 2345.0 13.0 19.6#
70 21.9 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 5.274 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 117 Resp: 34154
Ion Ratio Lower Upper
117 100
119 5.8 76.1 114.1#
121 0.0 23.8 35.6#

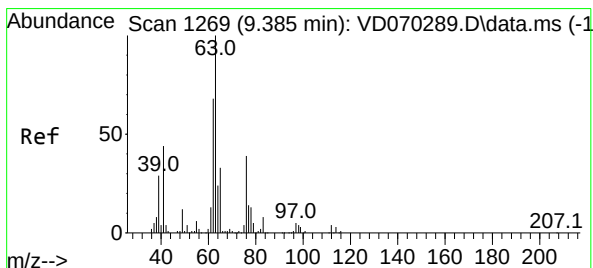
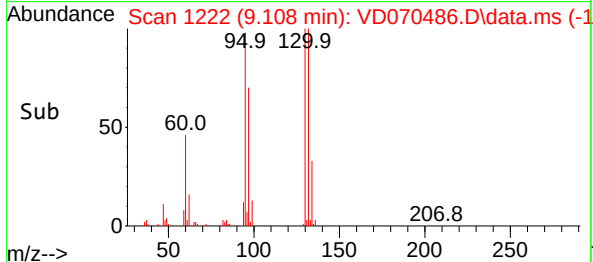
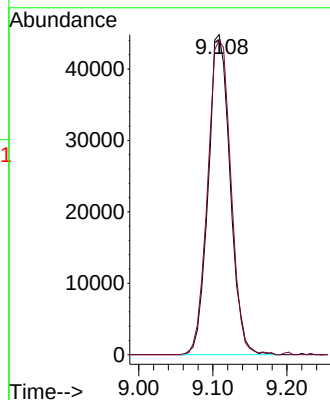
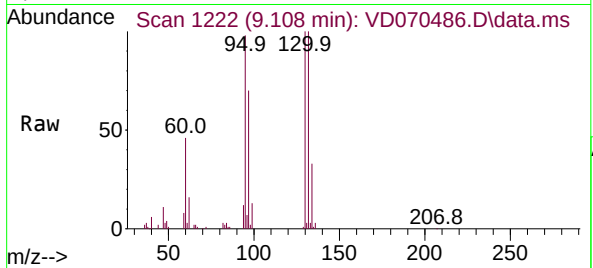




#44
Trichloroethene
Concen: 20.067 ug/l
RT: 9.108 min Scan# 1222
Delta R.T. -0.006 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

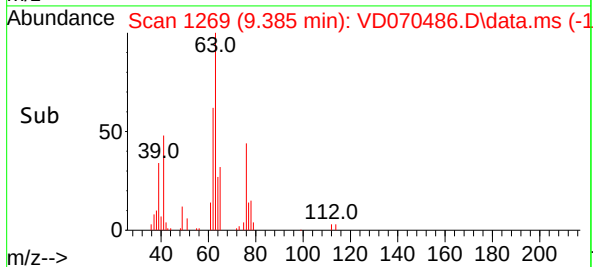
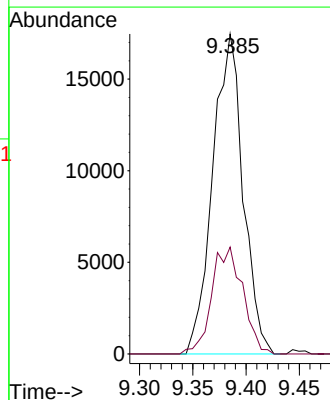
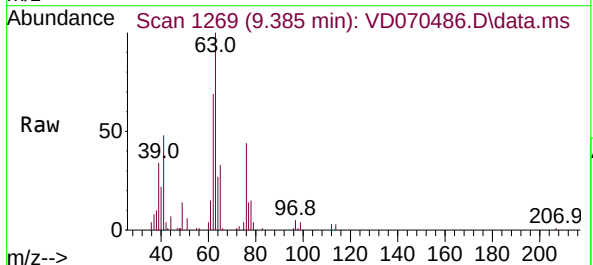
Instrument :
MSVOA_D
ClientSampleId :
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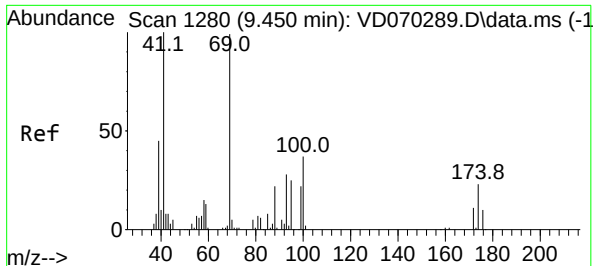
Tgt Ion:130 Resp: 92021
Ion Ratio Lower Upper
130 100
95 98.2 0.0 190.0



#45
1,2-Dichloropropane
Concen: 6.862 ug/l
RT: 9.385 min Scan# 1269
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 63 Resp: 34544
Ion Ratio Lower Upper
63 100
65 33.4 26.2 39.2

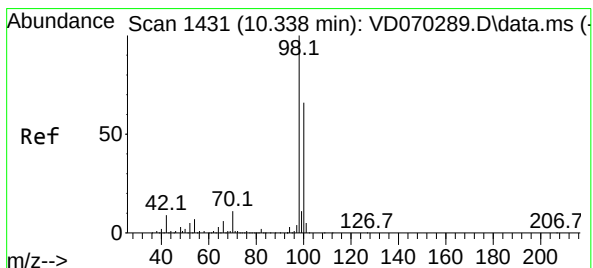
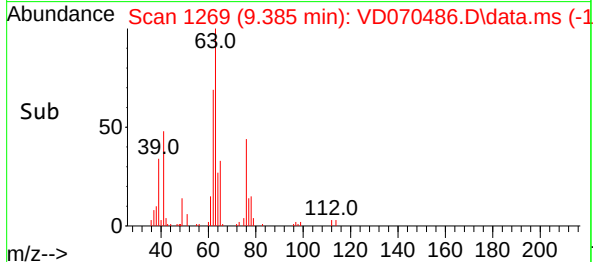
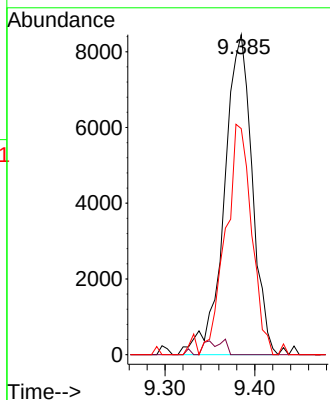
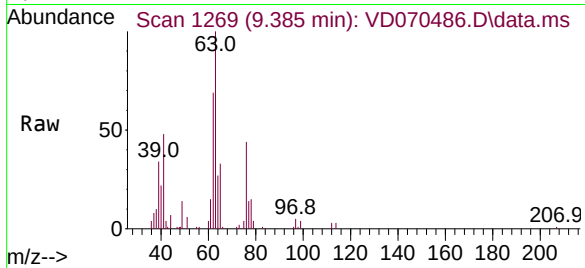




#48
Methyl methacrylate
Concen: 8.733 ug/l
RT: 9.385 min Scan# 1269
Delta R.T. -0.065 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

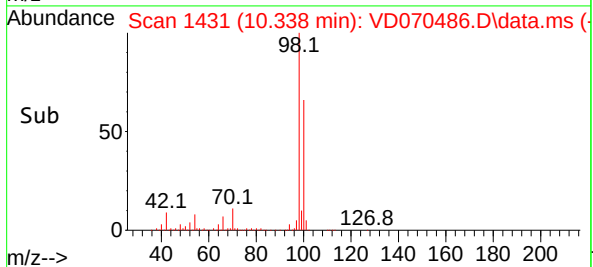
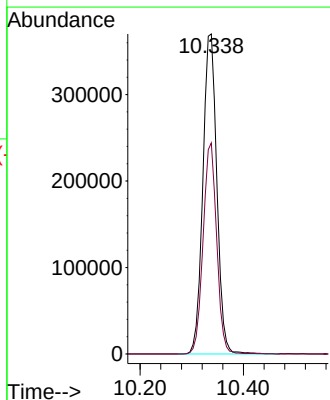
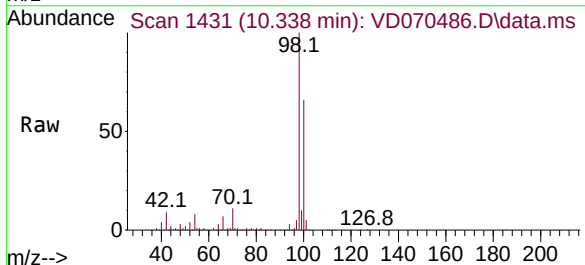
Instrument :
MSVOA_D
ClientSampleId :
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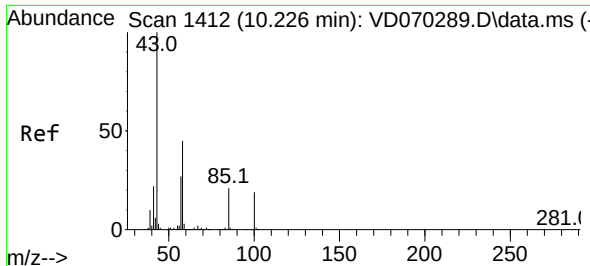
Tgt Ion: 41 Resp: 18253
Ion Ratio Lower Upper
41 100
69 3.1 79.8 119.8#
39 67.0 34.4 51.6#



#50
Toluene-d8
Concen: 43.873 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 98 Resp: 694551
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0

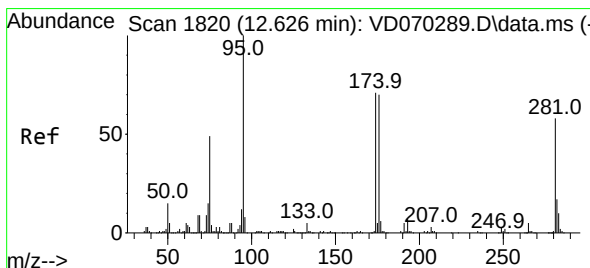
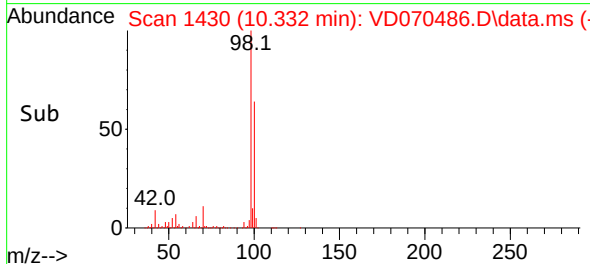
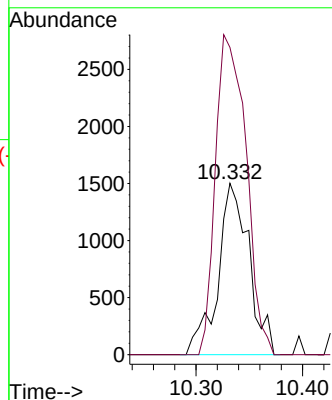
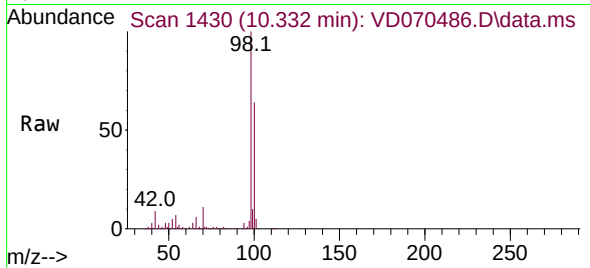




#51
4-Methyl-2-Pentanone
Concen: 1.298 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.106 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

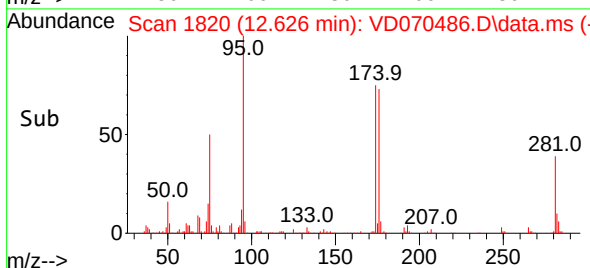
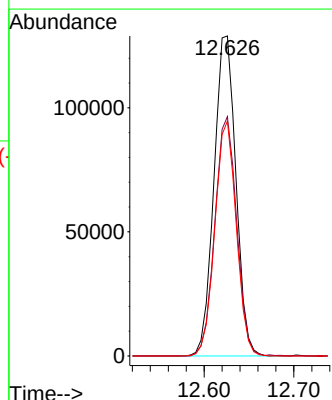
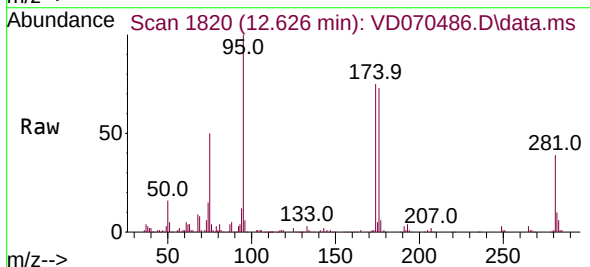
Instrument :
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ClientSampleId :
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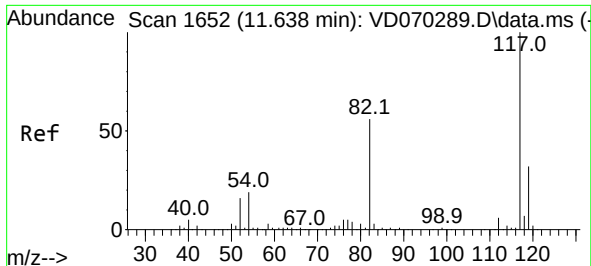
Tgt Ion: 43 Resp: 3040
Ion Ratio Lower Upper
43 100
58 184.0 35.4 53.2#



#62
4-Bromofluorobenzene
Concen: 39.580 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion: 95 Resp: 218984
Ion Ratio Lower Upper
95 100
174 74.5 0.0 140.6
176 71.3 0.0 137.4

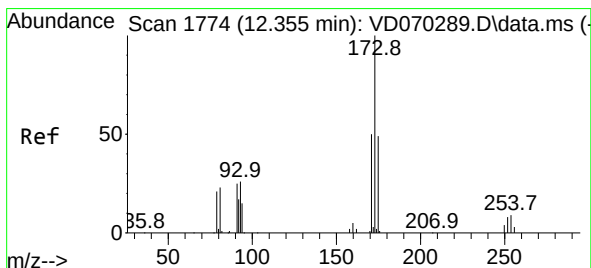
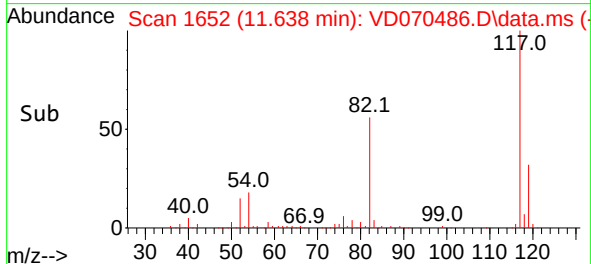
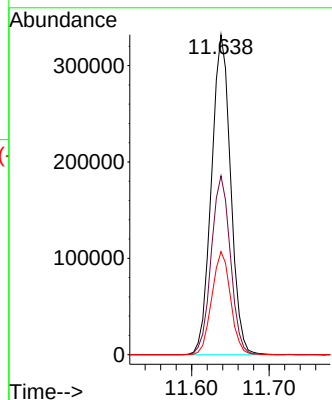
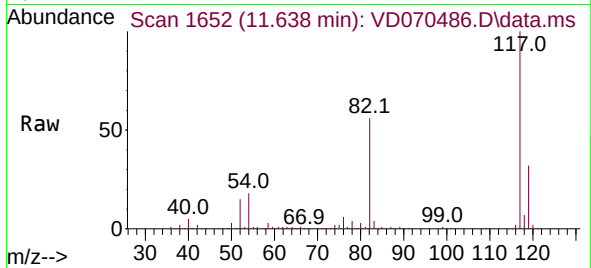




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

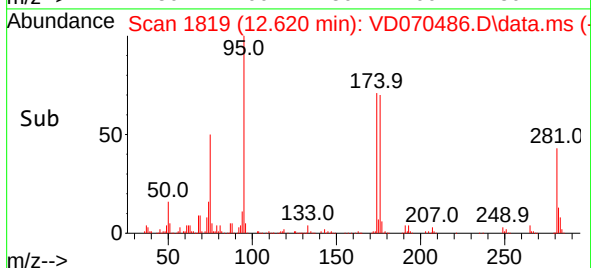
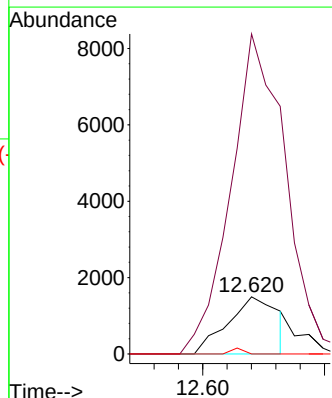
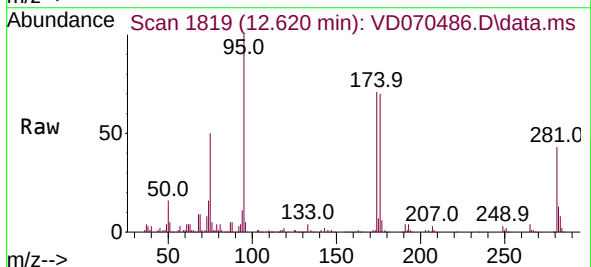
Instrument :
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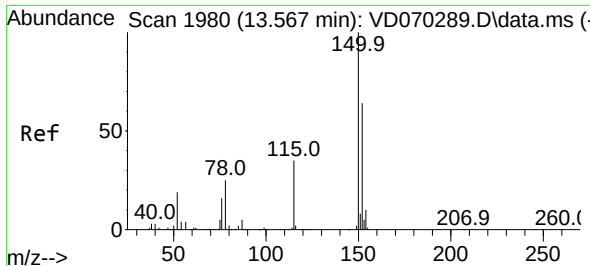
Tgt Ion:	117	Resp:	570349
Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.0	67.4
119	32.2	25.2	37.8



#71
Bromoform
Concen: 1.003 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.265 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

Tgt Ion:	173	Resp:	2145
Ion	Ratio	Lower	Upper
173	100		
175	529.0	25.1	75.2#
254	2.6	0.1	0.1#

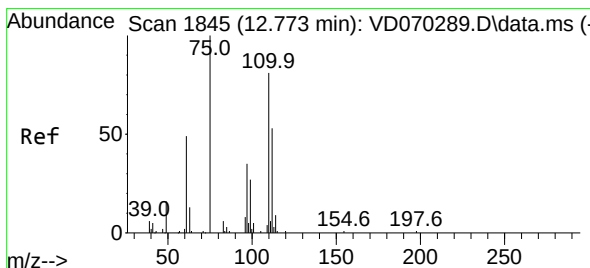
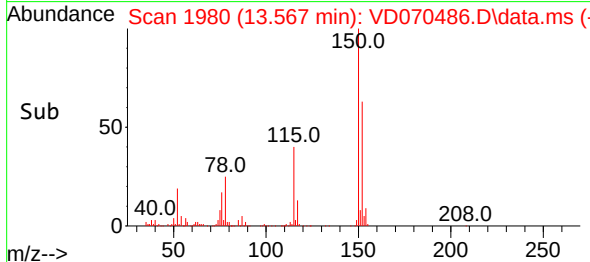
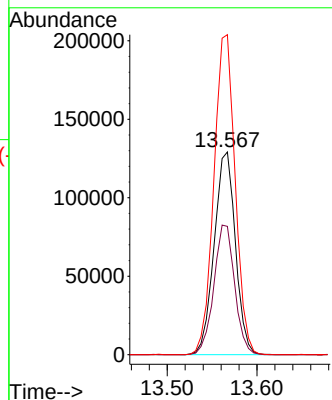
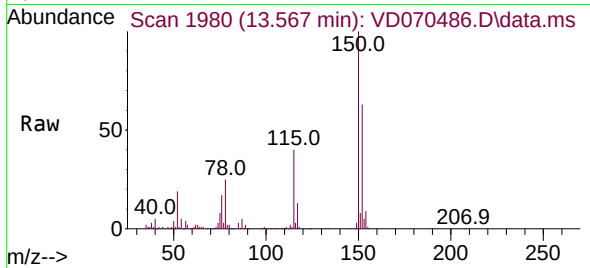




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

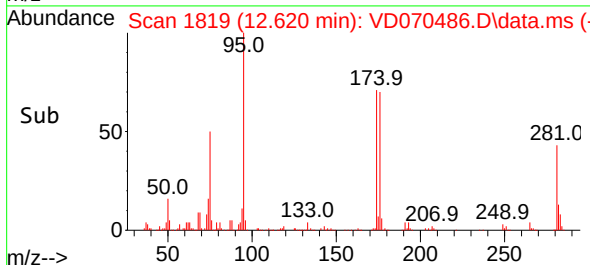
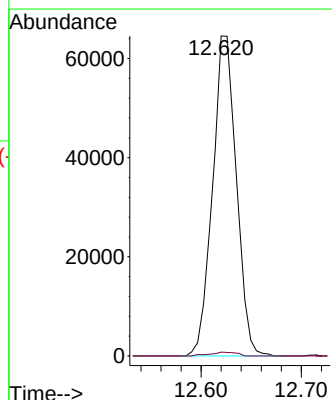
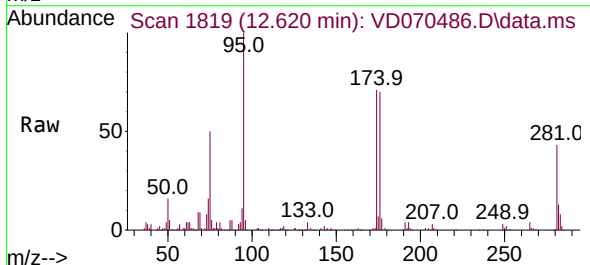
Instrument :
MSVOA_D
ClientSampleId :
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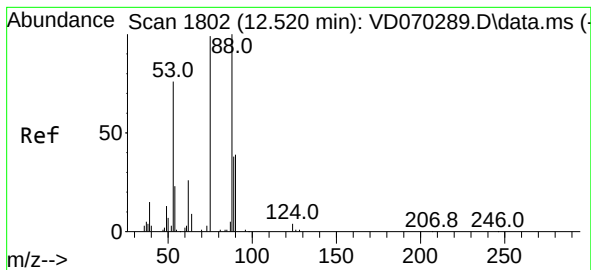
Tgt Ion:152 Resp: 212573
Ion Ratio Lower Upper
152 100
115 62.7 32.1 96.3
150 157.9 0.0 350.6



#76
1,2,3-Trichloropropane
Concen: 49.523 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070486.D
Acq: 27 Sep 2021 19:10

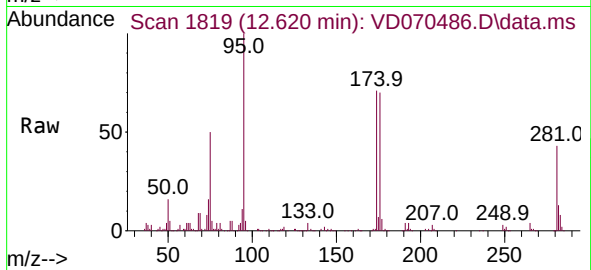
Tgt Ion: 75 Resp: 106485
Ion Ratio Lower Upper
75 100
77 1.3 174.9 524.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.085 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. 0.100 min
 Lab File: VD070486.D
 Acq: 27 Sep 2021 19:10

Instrument :
 MSVOA_D
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.1	64.2	96.2#
89	0.6	35.6	53.4#

