

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120321\
 Data File : VD071132.D
 Acq On : 03 Dec 2021 13:35
 Operator : VA/SY
 Sample : M4910-19
 Misc : 5.48G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 04 03:50:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

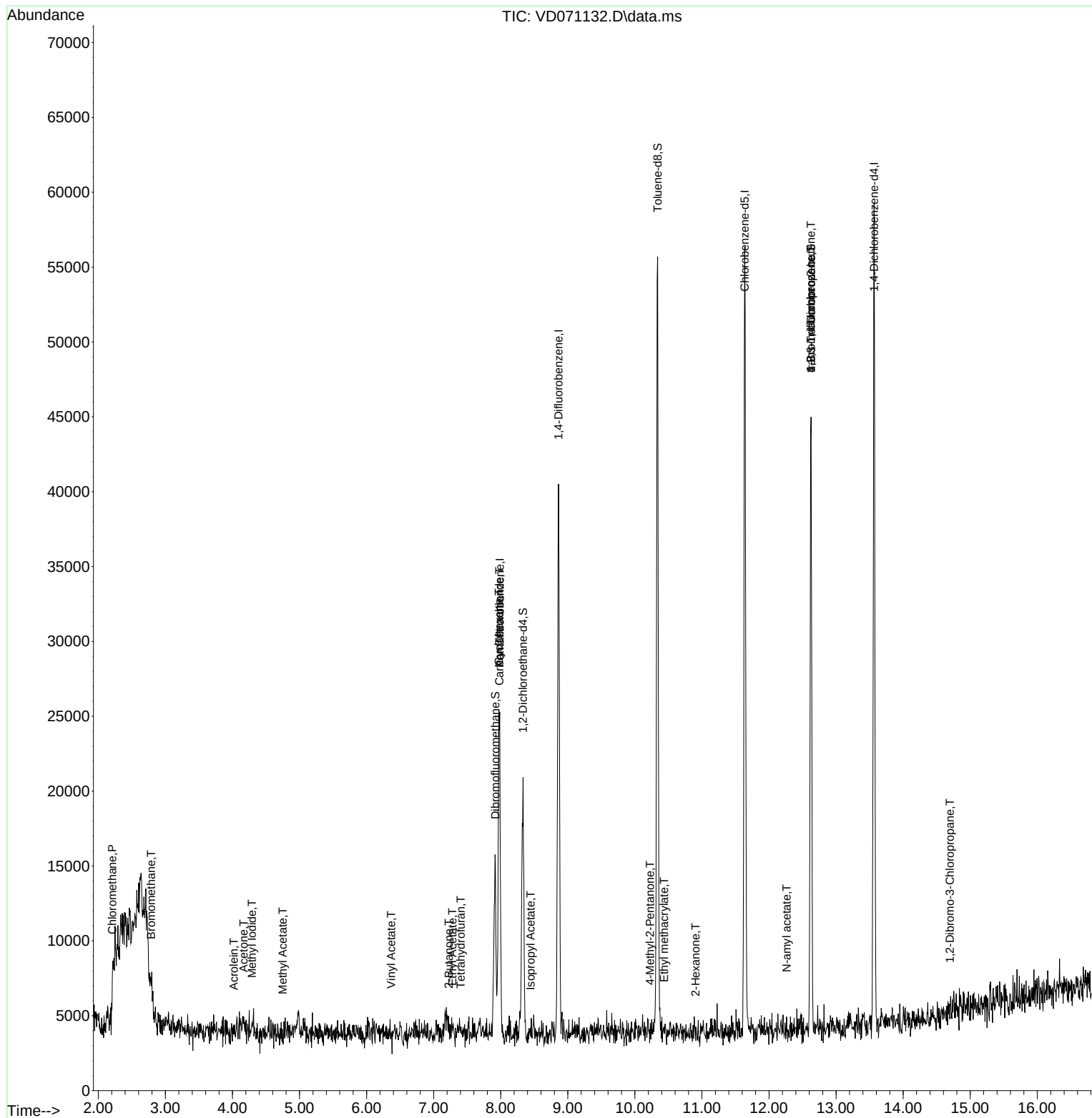
Internal Standards						
1) Pentafluorobenzene	7.985	168	15019	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	26649	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	27725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	13699	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	13238	75.118	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 150.240%	
35) Dibromofluoromethane	7.920	113	7895	46.524	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 93.040%	
50) Toluene-d8	10.338	98	32338	50.075	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 100.160%	
62) 4-Bromofluorobenzene	12.626	95	12573	56.166	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 112.340%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	692	4.084	ug/l	93
5) Bromomethane	2.785	94	1778	13.047	ug/l	# 43
10) Methyl Iodide	4.291	142	352	6.382	ug/l	# 40
13) Acrolein	4.020	56	56	4.650	ug/l	# 13
16) Acetone	4.168	43	2431	76.346	ug/l	# 40
18) Methyl Acetate	4.750	43	175	1.346	ug/l	# 51
20) Methylene Chloride	4.973	84	447	Below Cal	#	27
23) Vinyl Acetate	6.367	43	201	27.843	ug/l	# 72
25) 2-Butanone	7.226	43	252	32.493	ug/l	# 45
29) Tetrahydrofuran	7.403	42	75	2.680	ug/l	# 34
31) Cyclohexane	7.973	56	544	1.815	ug/l	# 41
37) Ethyl Acetate	7.279	43	139	1.292	ug/l	# 66
38) Carbon Tetrachloride	7.979	117	1708	6.957	ug/l	# 12
41) Methacrylonitrile	7.473	41	70	Below Cal	#	12
43) Isopropyl Acetate	8.444	43	116	5.662	ug/l	# 47
51) 4-Methyl-2-Pentanone	10.226	43	129	31.585	ug/l	# 34
56) Ethyl methacrylate	10.438	69	76	6.354	ug/l	# 28
59) 2-Hexanone	10.902	43	85	35.375	ug/l	# 22
74) N-amyl acetate	12.261	43	91	5.998	ug/l	# 40
76) 1,2,3-Trichloropropane	12.626	75	7370	56.467	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.626	75	7370	122.596	ug/l	# 18
92) 1,2-Dibromo-3-Chloropr...	14.696	75	54	2.030	ug/l	# 4

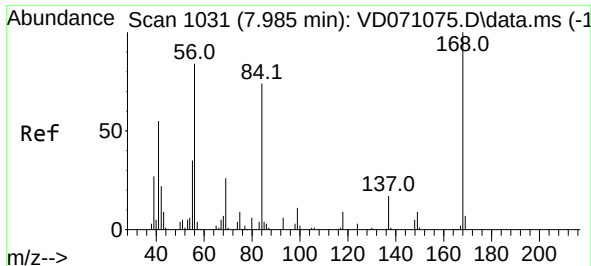
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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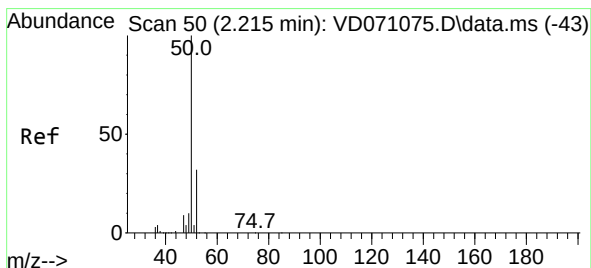
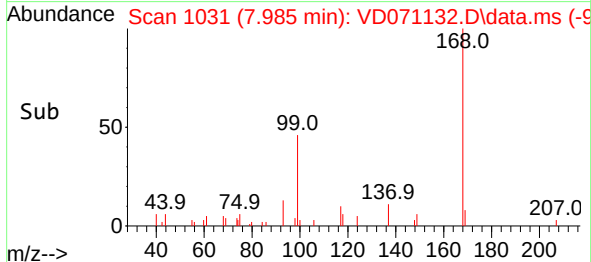
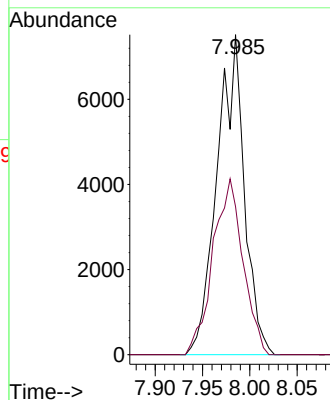
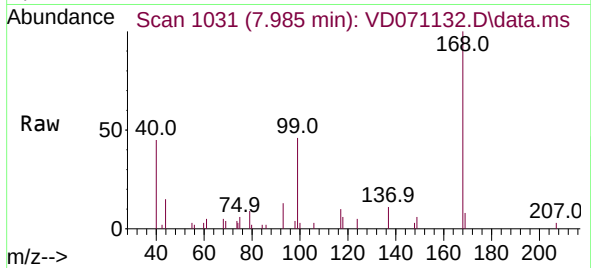




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

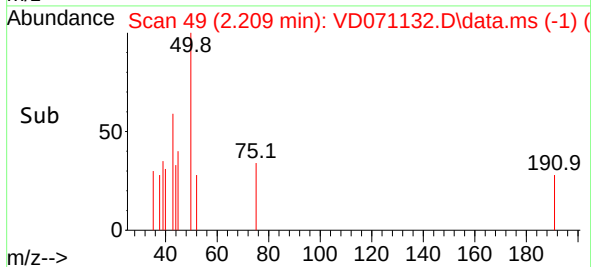
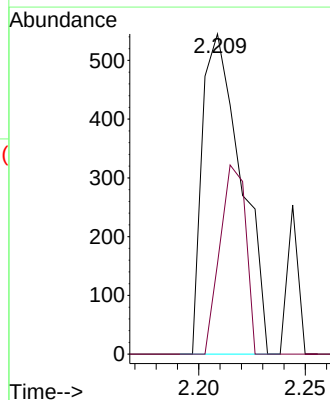
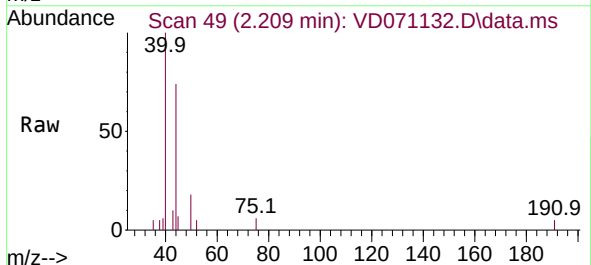
Instrument :
MSVOA_D
ClientSampleId :

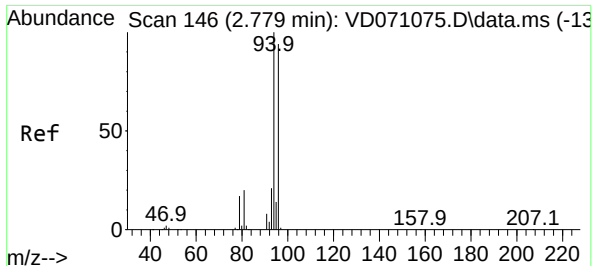
Tgt Ion:168 Resp: 15019
Ion Ratio Lower Upper
168 100
99 46.3 46.6 69.8#



#3
Chloromethane
Concen: 4.084 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

Tgt Ion: 50 Resp: 692
Ion Ratio Lower Upper
50 100
52 28.3 25.8 38.8

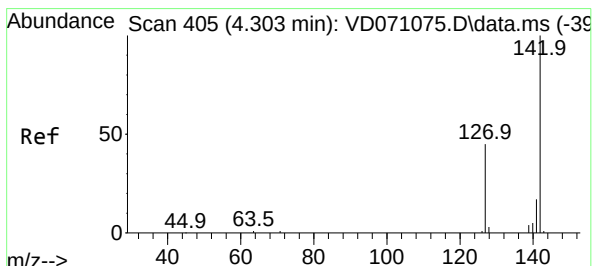
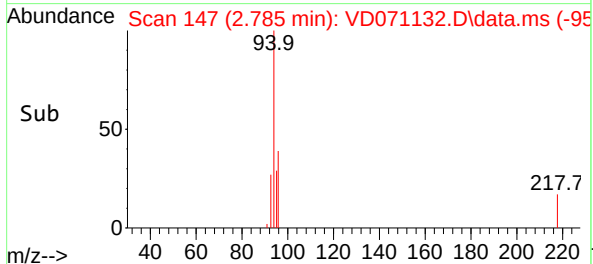
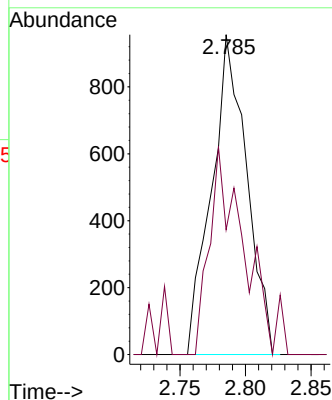
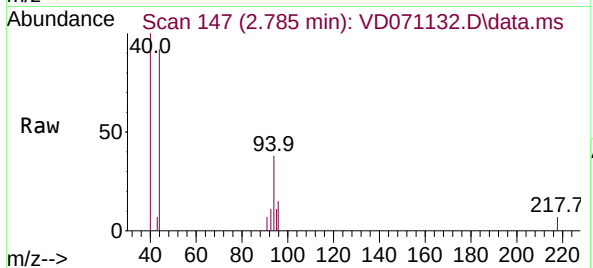




#5
Bromomethane
Concen: 13.047 ug/l
RT: 2.785 min Scan# 14
Delta R.T. 0.006 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

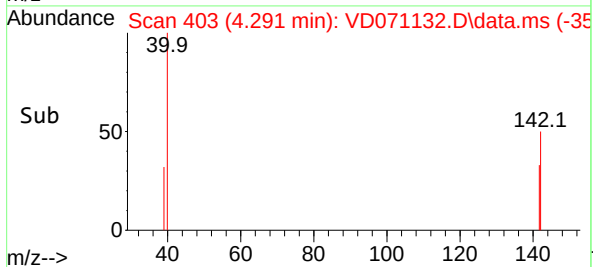
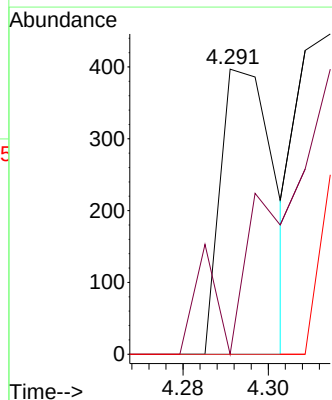
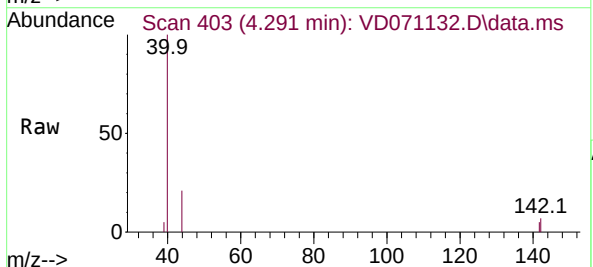
Instrument :
MSVOA_D
ClientSampleId :

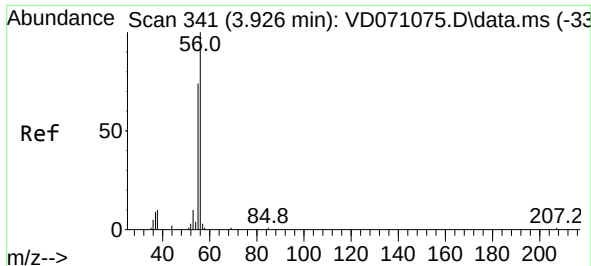
Tgt Ion: 94 Resp: 1778
Ion Ratio Lower Upper
94 100
96 39.0 74.8 112.2#



#10
Methyl Iodide
Concen: 6.382 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

Tgt Ion:142 Resp: 352
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

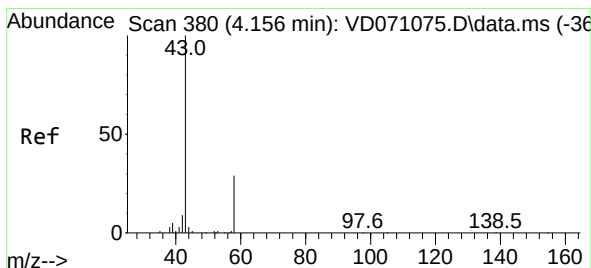
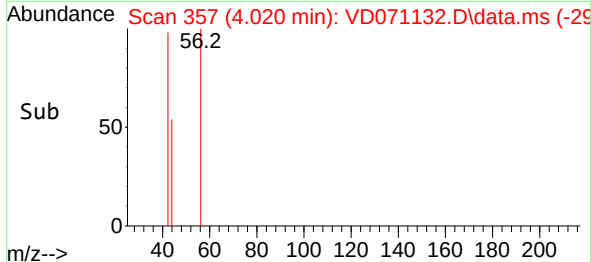
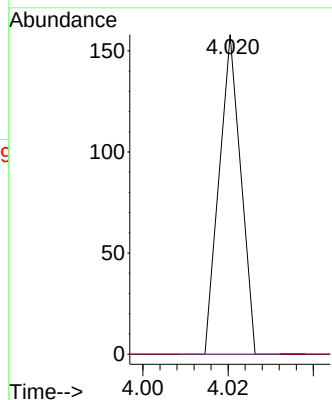
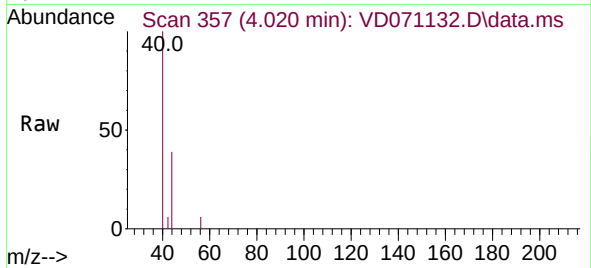




#13
Acrolein
Concen: 4.650 ug/l
RT: 4.020 min Scan# 31
Delta R.T. 0.094 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

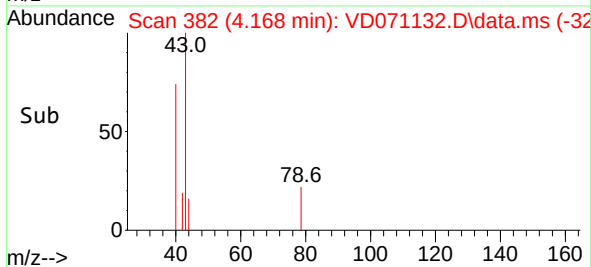
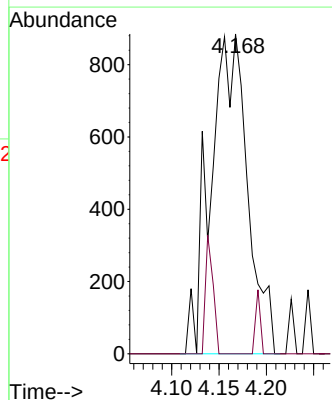
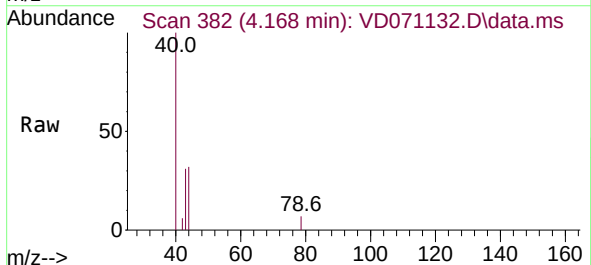
Instrument :
MSVOA_D
ClientSampleId :

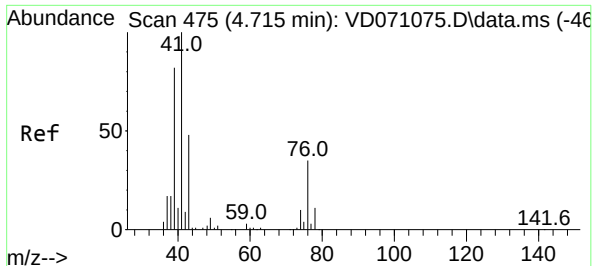
Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#16
Acetone
Concen: 76.346 ug/l
RT: 4.168 min Scan# 382
Delta R.T. 0.012 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

Tgt Ion: 43 Resp: 2431
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#18

Methyl Acetate

Concen: 1.346 ug/l

RT: 4.750 min Scan# 41

Delta R.T. 0.035 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Instrument :

MSVOA_D

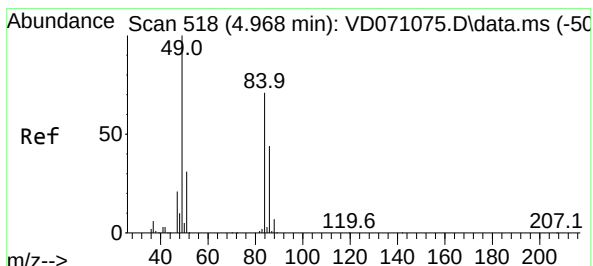
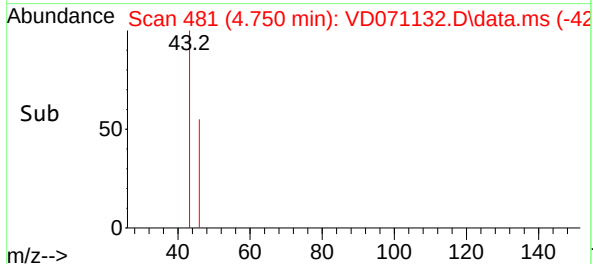
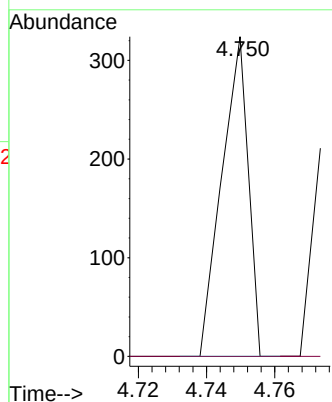
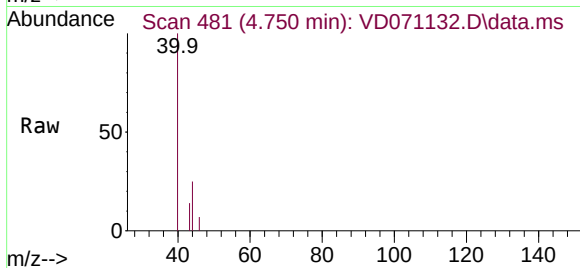
ClientSampleId :

Tgt Ion: 43 Resp: 175

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.973 min Scan# 519

Delta R.T. 0.005 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Tgt Ion: 84 Resp: 447

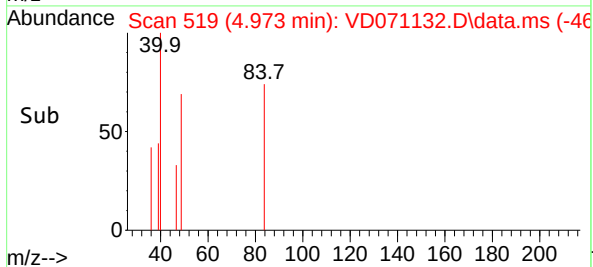
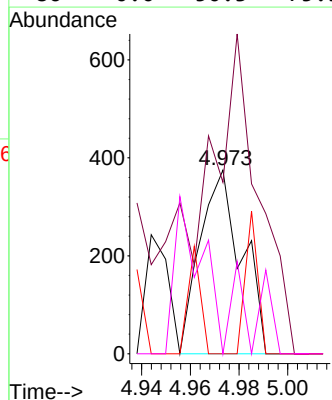
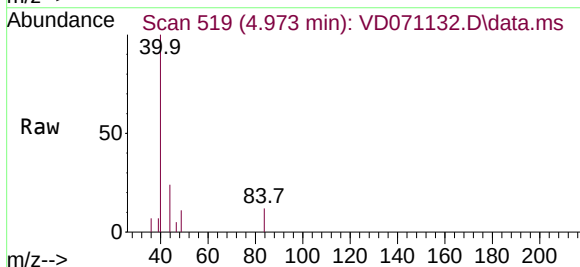
Ion Ratio Lower Upper

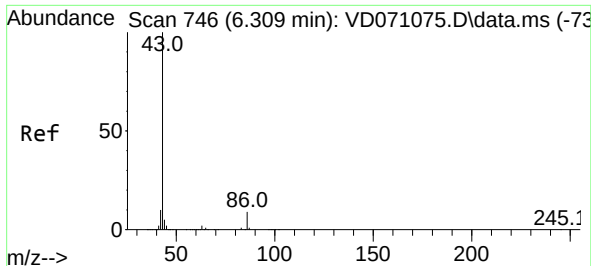
84 100

49 40.0 95.8 143.6#

51 0.0 30.9 46.3#

86 0.0 50.3 75.5#

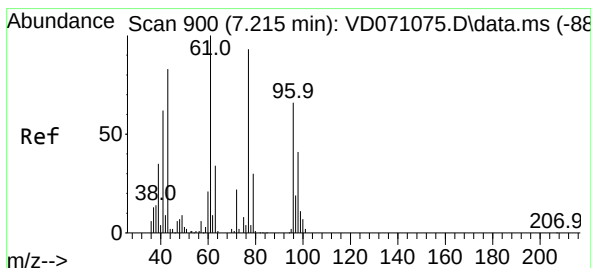
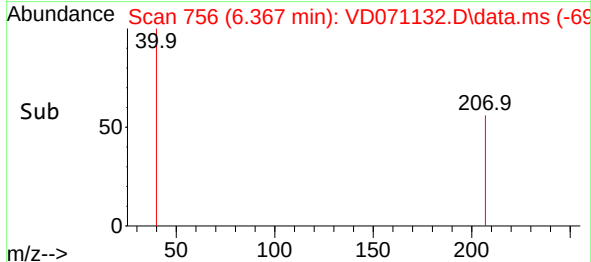
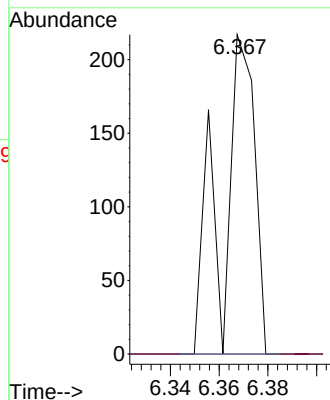
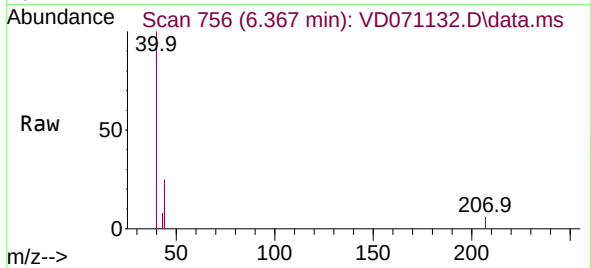




#23
 Vinyl Acetate
 Concen: 27.843 ug/l
 RT: 6.367 min Scan# 71
 Delta R.T. 0.058 min
 Lab File: VD071132.D
 Acq: 03 Dec 2021 13:35

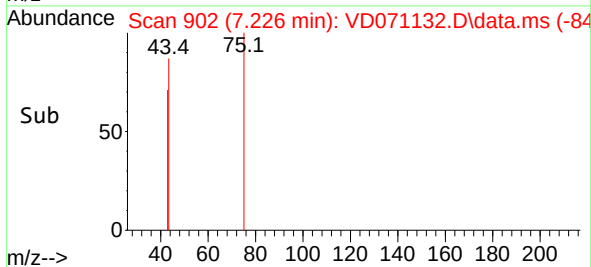
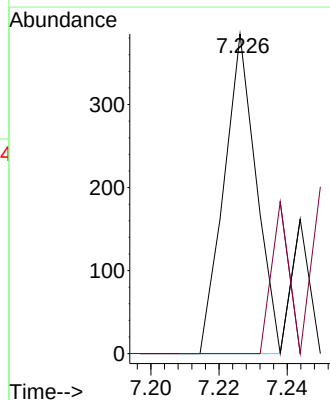
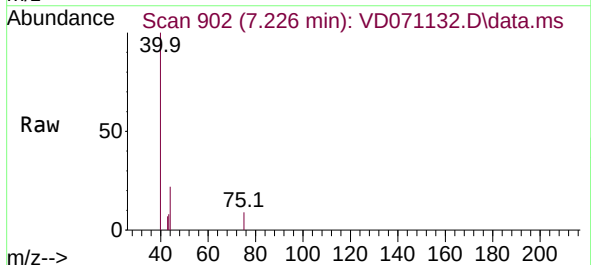
Instrument :
 MSVOA_D
 ClientSampleId :

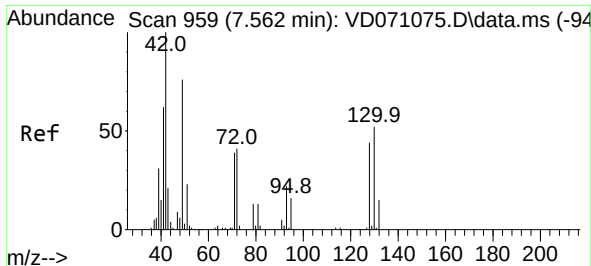
Tgt Ion: 43 Resp: 201
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 32.493 ug/l
 RT: 7.226 min Scan# 902
 Delta R.T. 0.011 min
 Lab File: VD071132.D
 Acq: 03 Dec 2021 13:35

Tgt Ion: 43 Resp: 252
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 2.680 ug/l

RT: 7.403 min Scan# 91

Delta R.T. -0.159 min

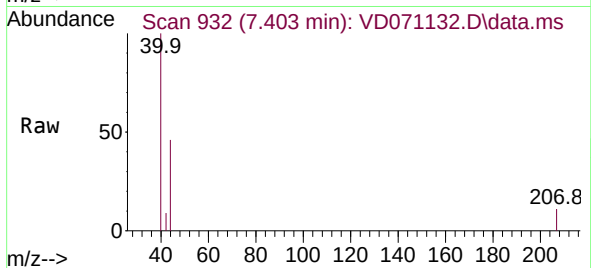
Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

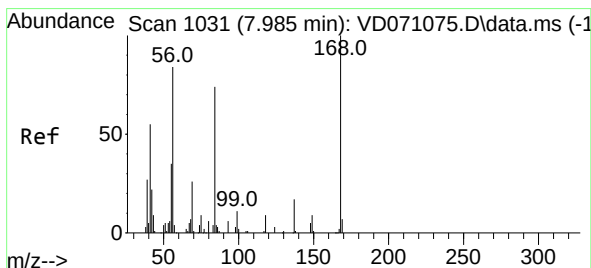
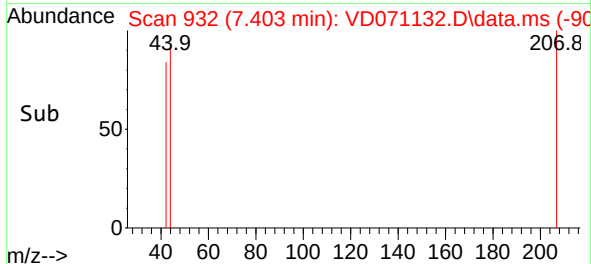
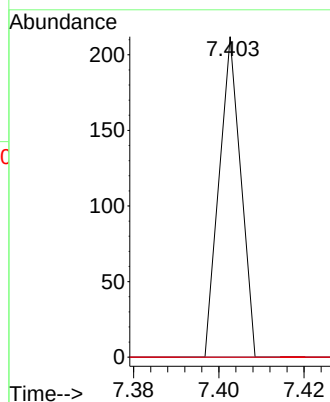
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	75
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 1.815 ug/l

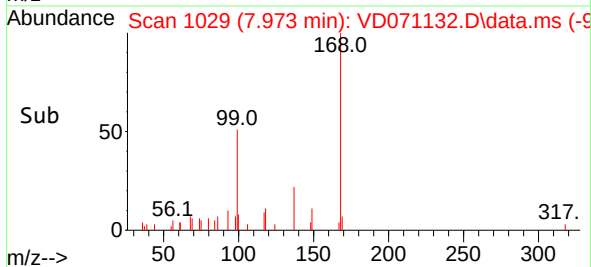
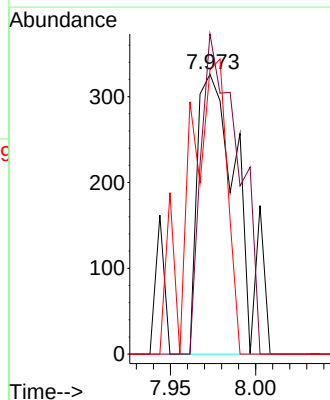
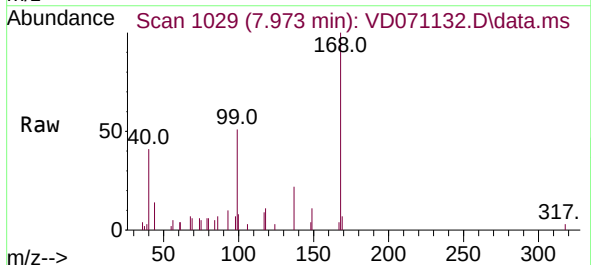
RT: 7.973 min Scan# 1029

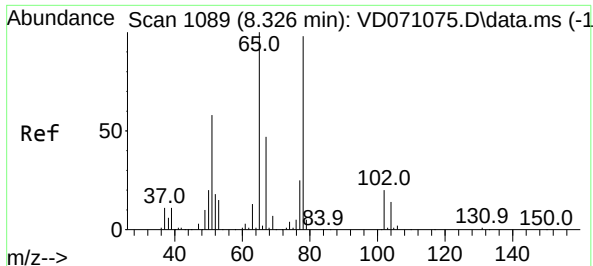
Delta R.T. -0.012 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Tgt Ion:	56	Resp:	544
Ion	Ratio	Lower	Upper
56	100		
69	114.4	25.9	38.9#
84	101.5	64.3	96.5#





#33

1,2-Dichloroethane-d4

Concen: 75.118 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Instrument :

MSVOA_D

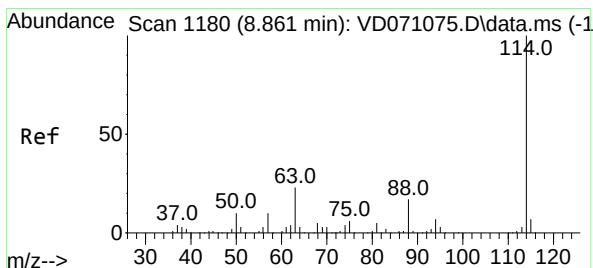
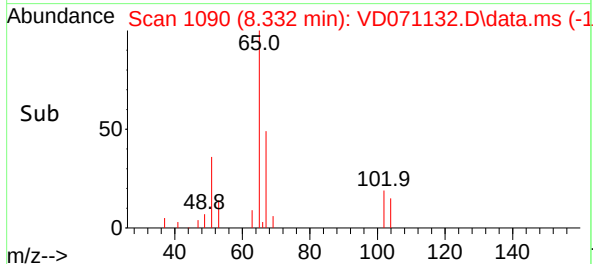
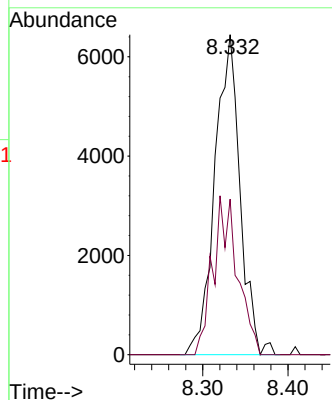
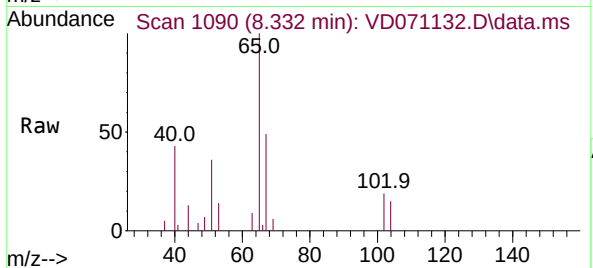
ClientSampleId :

Tgt Ion: 65 Resp: 13238

Ion Ratio Lower Upper

65 100

67 48.1 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

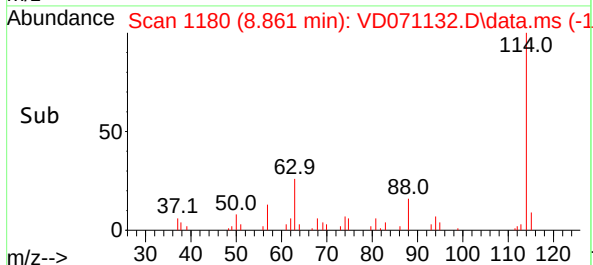
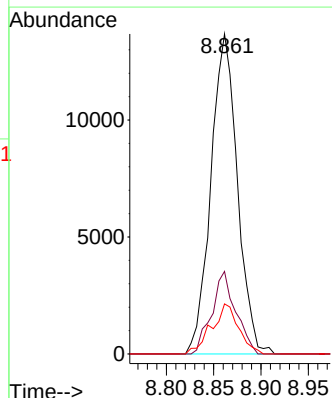
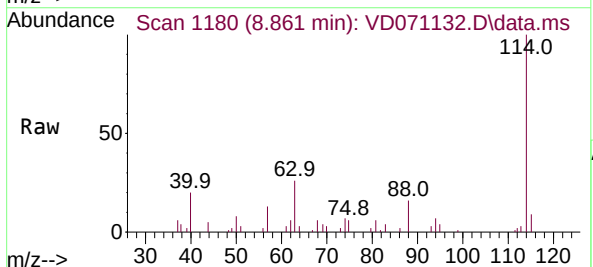
Tgt Ion: 114 Resp: 26649

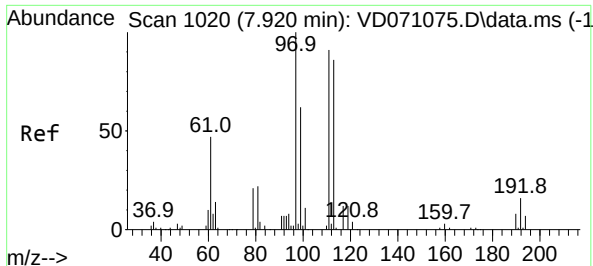
Ion Ratio Lower Upper

114 100

63 25.8 0.0 41.8

88 15.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 46.524 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

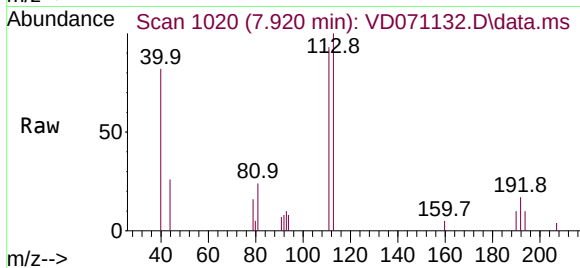
Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Instrument :

MSVOA_D

ClientSampleId :



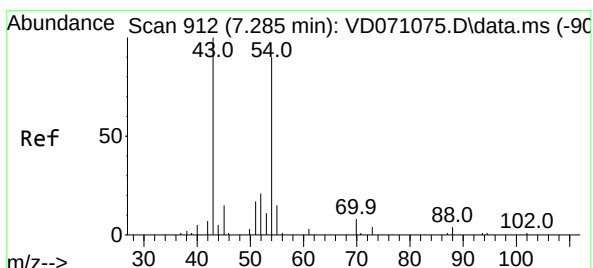
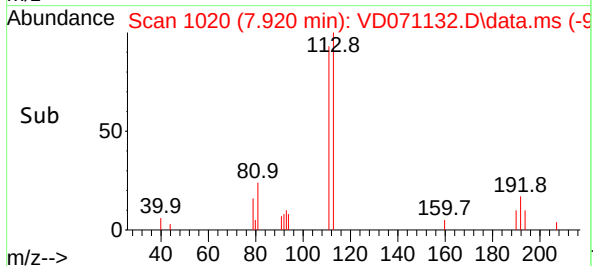
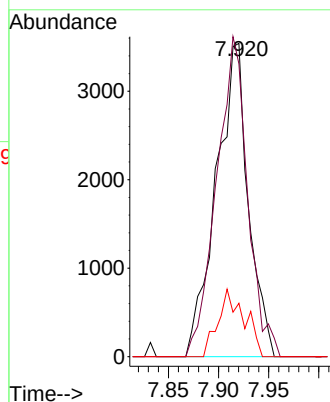
Tgt Ion:113 Resp: 7895

Ion Ratio Lower Upper

113 100

111 98.7 82.0 123.0

192 17.6 15.2 22.8



#37

Ethyl Acetate

Concen: 1.292 ug/l

RT: 7.279 min Scan# 911

Delta R.T. -0.006 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

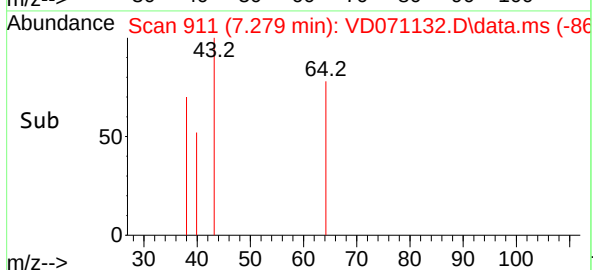
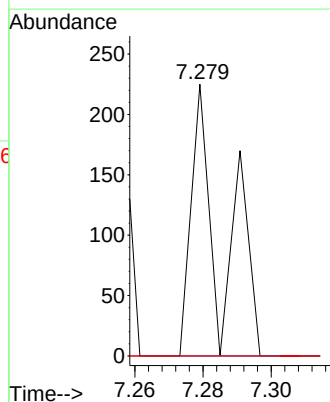
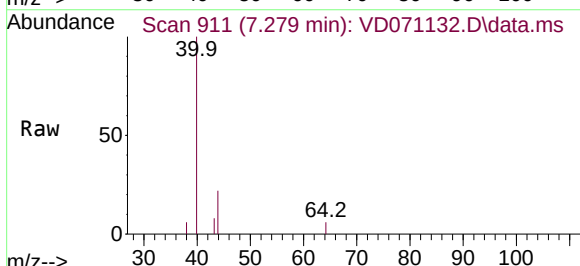
Tgt Ion: 43 Resp: 139

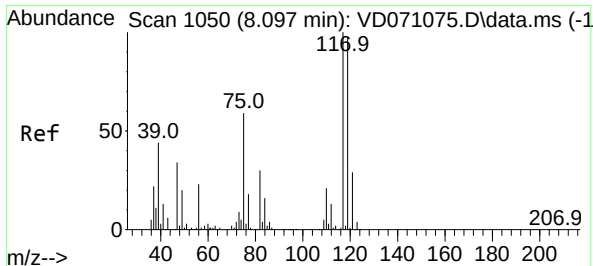
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 6.957 ug/l

RT: 7.979 min Scan# 1109

Delta R.T. -0.118 min

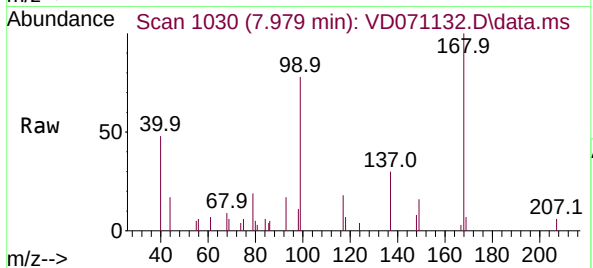
Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

Instrument :

MSVOA_D

ClientSampleId :



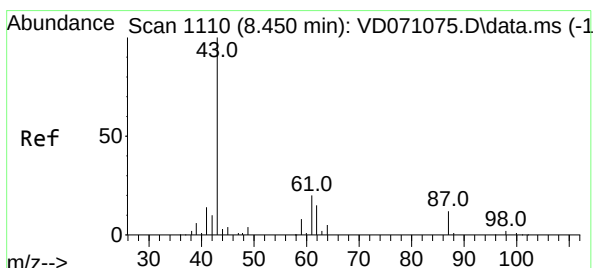
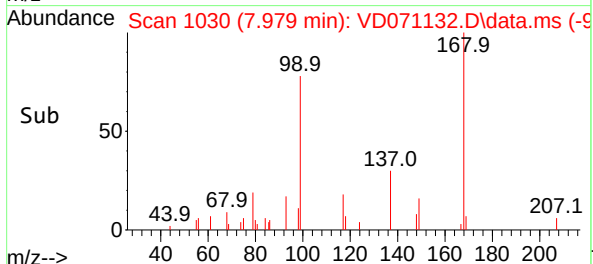
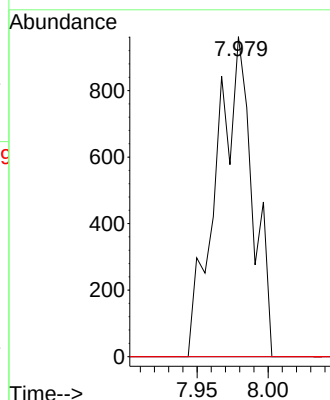
Tgt Ion:117 Resp: 1708

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 23.6 35.4#



#43

Isopropyl Acetate

Concen: 5.662 ug/l

RT: 8.444 min Scan# 1109

Delta R.T. -0.006 min

Lab File: VD071132.D

Acq: 03 Dec 2021 13:35

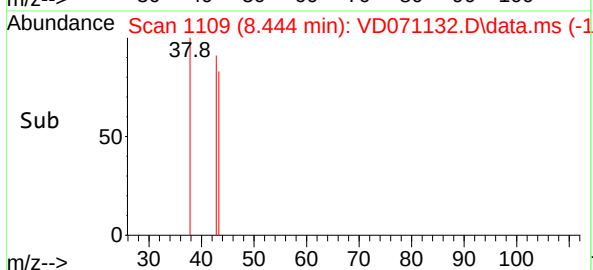
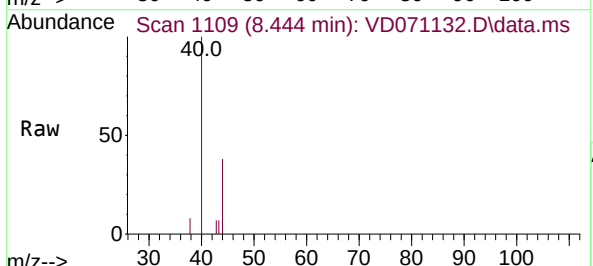
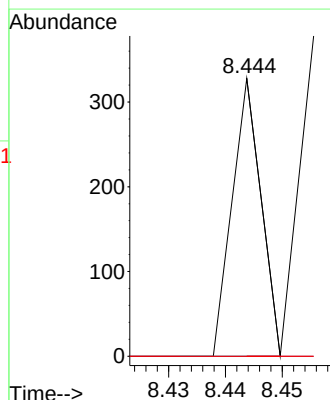
Tgt Ion: 43 Resp: 116

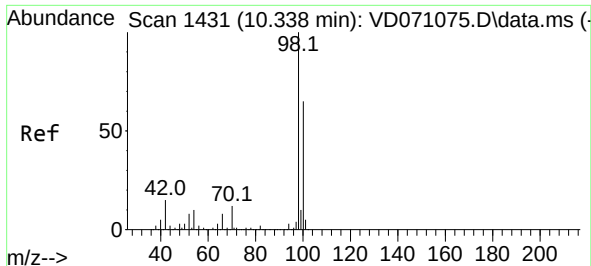
Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#

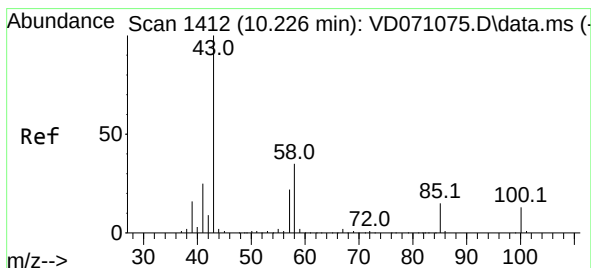
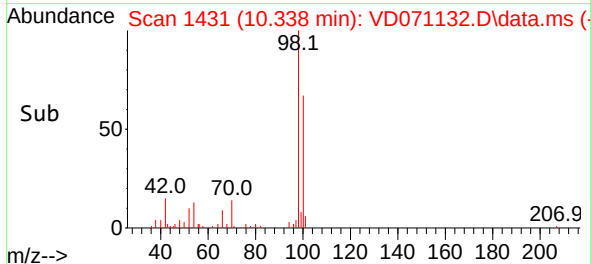
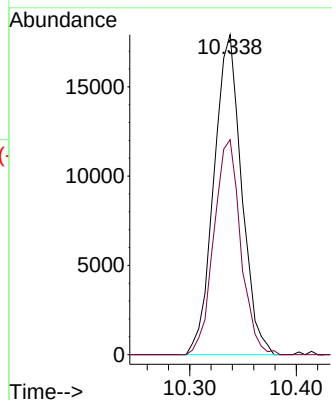
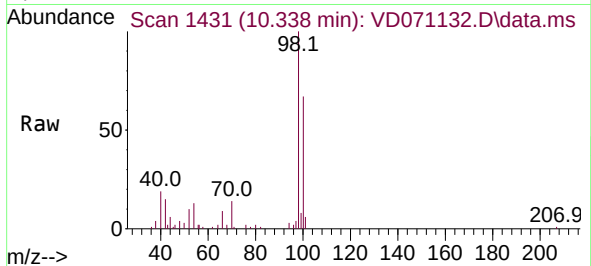




#50
Toluene-d8
Concen: 50.075 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

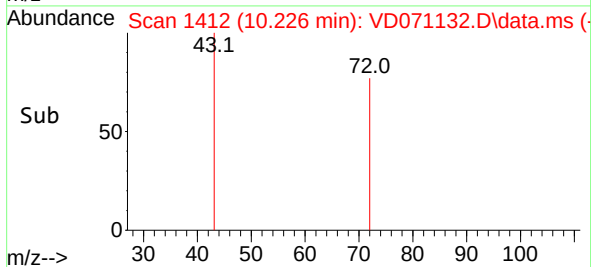
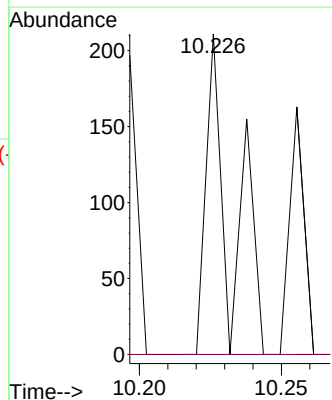
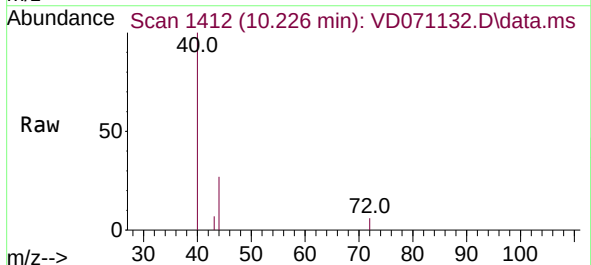
Instrument :
MSVOA_D
ClientSampleId :

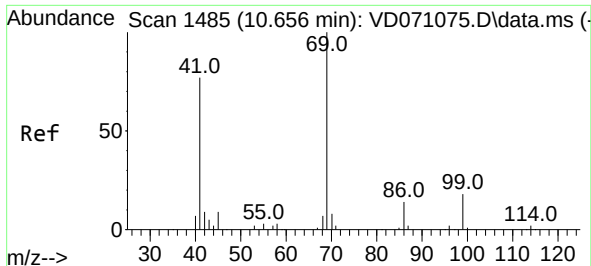
Tgt Ion: 98 Resp: 32338
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.585 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. 0.000 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

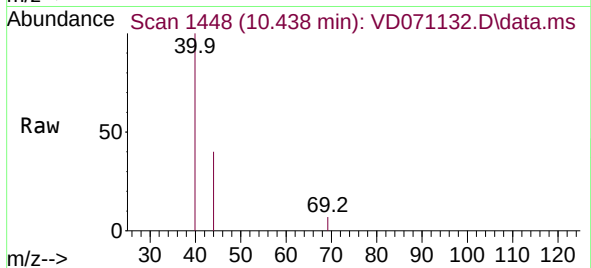
Tgt Ion: 43 Resp: 129
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





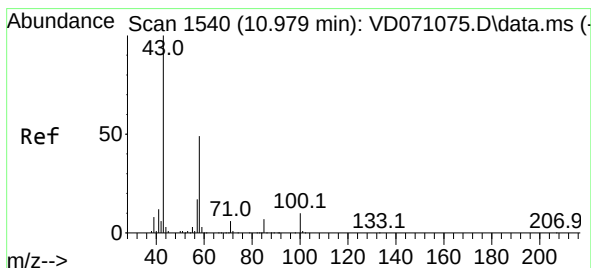
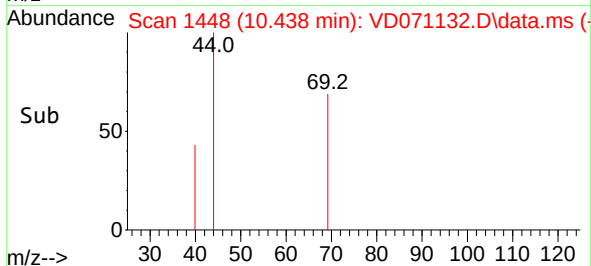
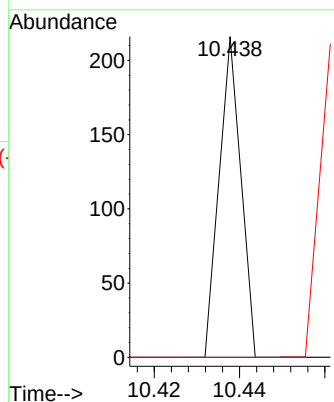
#56
Ethyl methacrylate
Concen: 6.354 ug/l
RT: 10.438 min Scan# 1448
Delta R.T. -0.218 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 69 Resp: 76

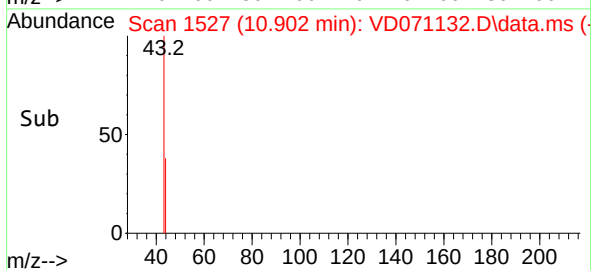
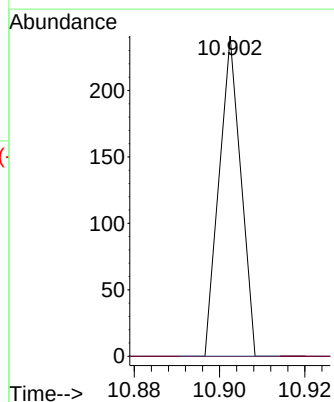
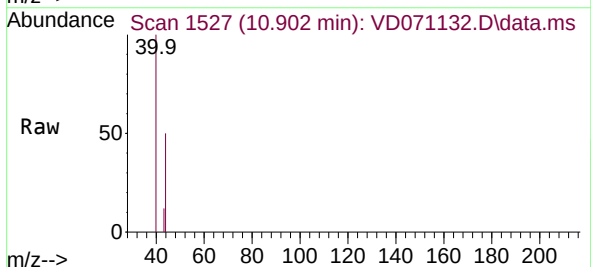
Ion	Ratio	Lower	Upper
69	100		
41	0.0	50.2	75.2#
39	0.0	19.8	29.8#

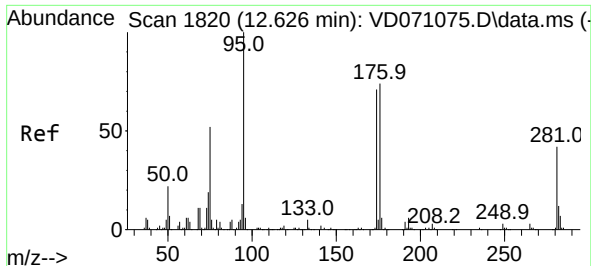


#59
2-Hexanone
Concen: 35.375 ug/l
RT: 10.902 min Scan# 1527
Delta R.T. -0.077 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

Tgt Ion: 43 Resp: 85

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.7	86.1#

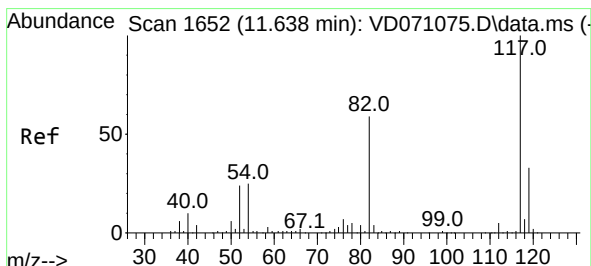
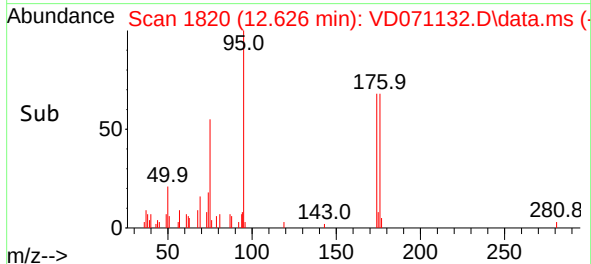
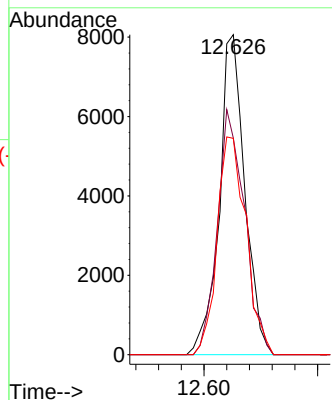
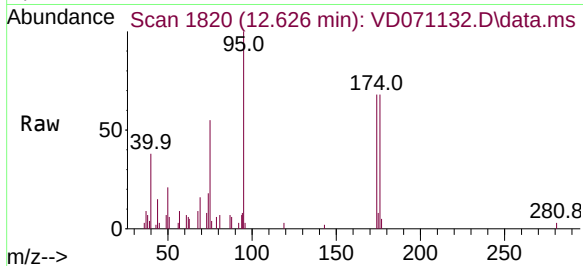




#62
4-Bromofluorobenzene
Concen: 56.166 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

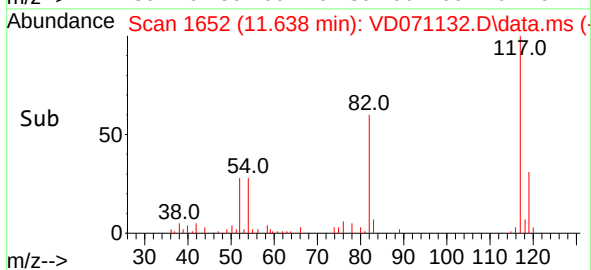
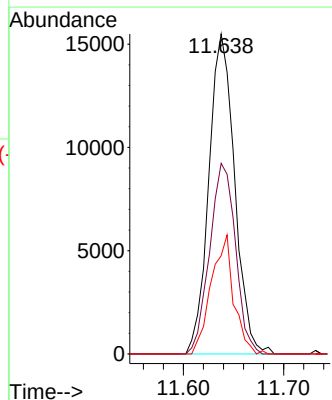
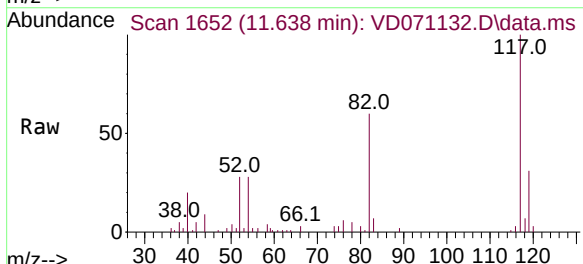
Instrument :
MSVOA_D
ClientSampleId :

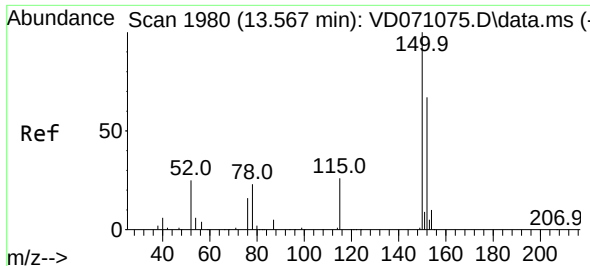
Tgt Ion: 95	Resp: 12573
Ion Ratio	Lower Upper
95 100	
174 81.5	0.0 159.4
176 77.1	0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

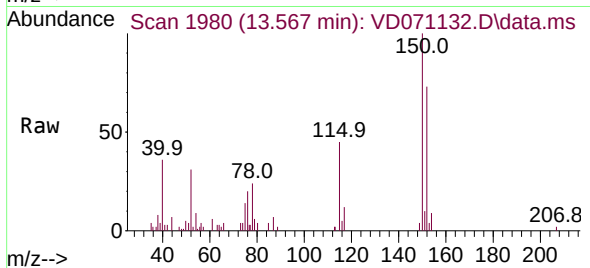
Tgt Ion: 117	Resp: 27725
Ion Ratio	Lower Upper
117 100	
82 59.5	44.7 67.1
119 30.7	26.2 39.4



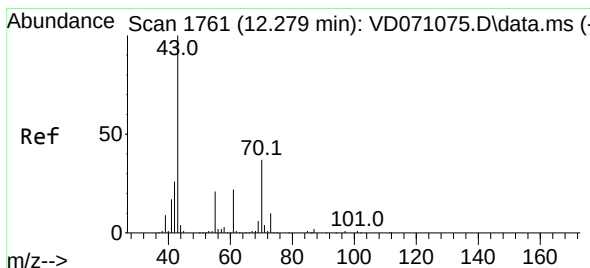
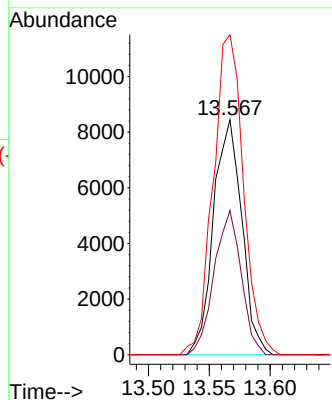
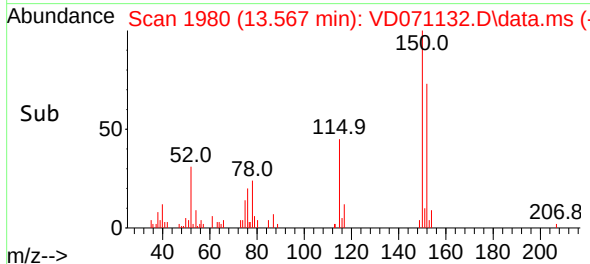


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.567 min Scan# 1980
 Delta R.T. 0.000 min
 Lab File: VD071132.D
 Acq: 03 Dec 2021 13:35

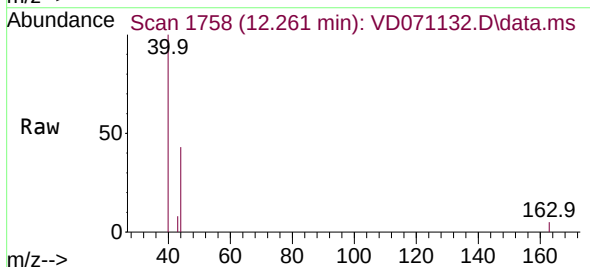
Instrument :
 MSVOA_D
 ClientSampleId :



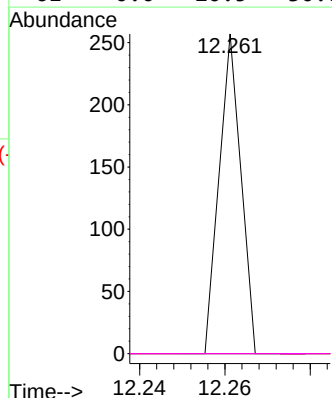
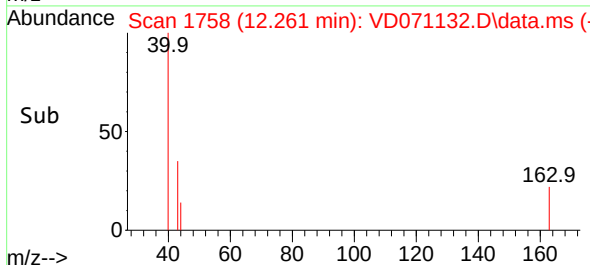
Tgt Ion:152 Resp: 13699
 Ion Ratio Lower Upper
 152 100
 115 58.6 29.8 89.3
 150 145.2 0.0 349.2

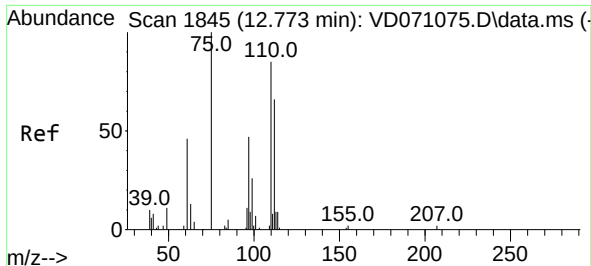


#74
 N-ethyl acetate
 Concen: 5.998 ug/l
 RT: 12.261 min Scan# 1758
 Delta R.T. -0.018 min
 Lab File: VD071132.D
 Acq: 03 Dec 2021 13:35



Tgt Ion: 43 Resp: 91
 Ion Ratio Lower Upper
 43 100
 70 0.0 36.6 55.0#
 55 0.0 22.5 33.7#
 61 0.0 20.5 30.7#

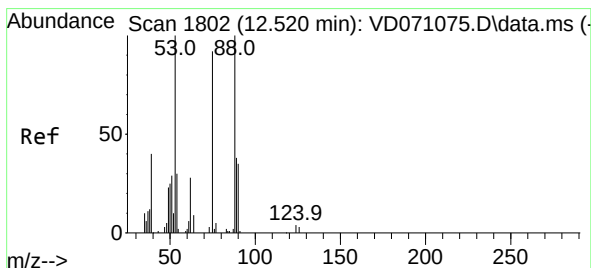
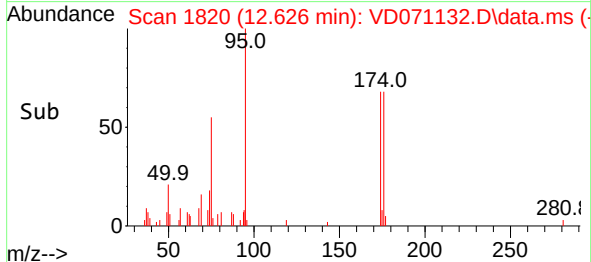
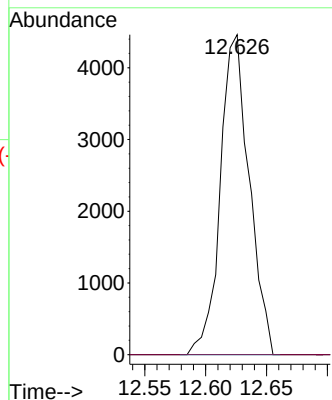
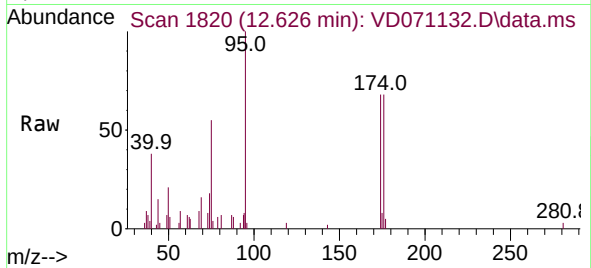




#76
1,2,3-Trichloropropane
Concen: 56.467 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

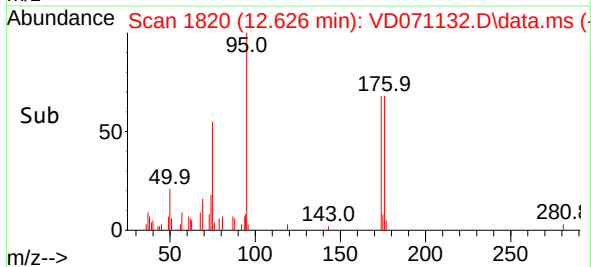
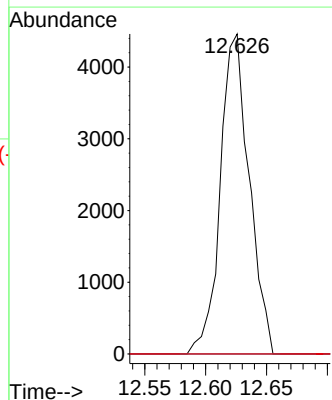
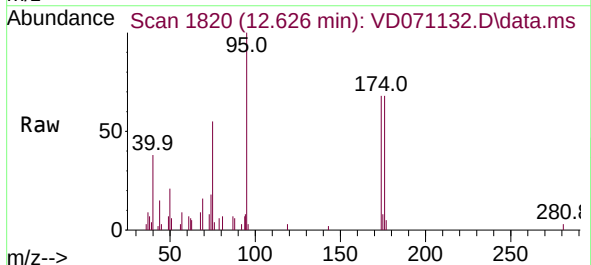
Instrument :
MSVOA_D
ClientSampleId :

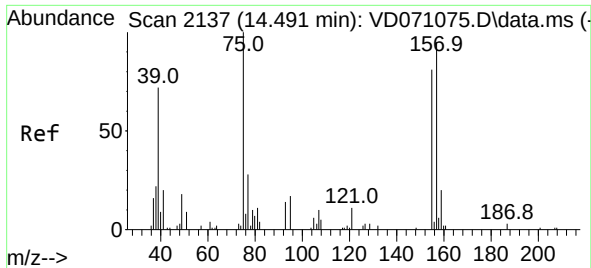
Tgt Ion: 75 Resp: 7370
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 122.596 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071132.D
Acq: 03 Dec 2021 13:35

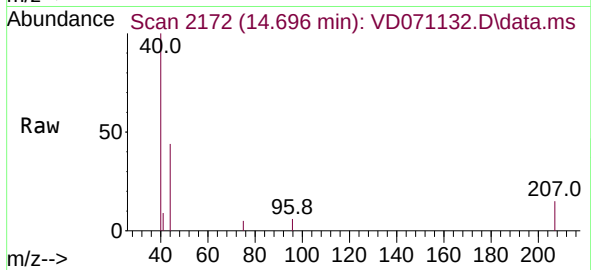
Tgt Ion: 75 Resp: 7370
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.030 ug/l
 RT: 14.696 min Scan# 21
 Delta R.T. 0.205 min
 Lab File: VD071132.D
 Acq: 03 Dec 2021 13:35

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 54
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#

