

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121321\
 Data File : VD071291.D
 Acq On : 13 Dec 2021 12:44
 Operator : VA/SY
 Sample : M5051-02RE
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 08:13:14 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)

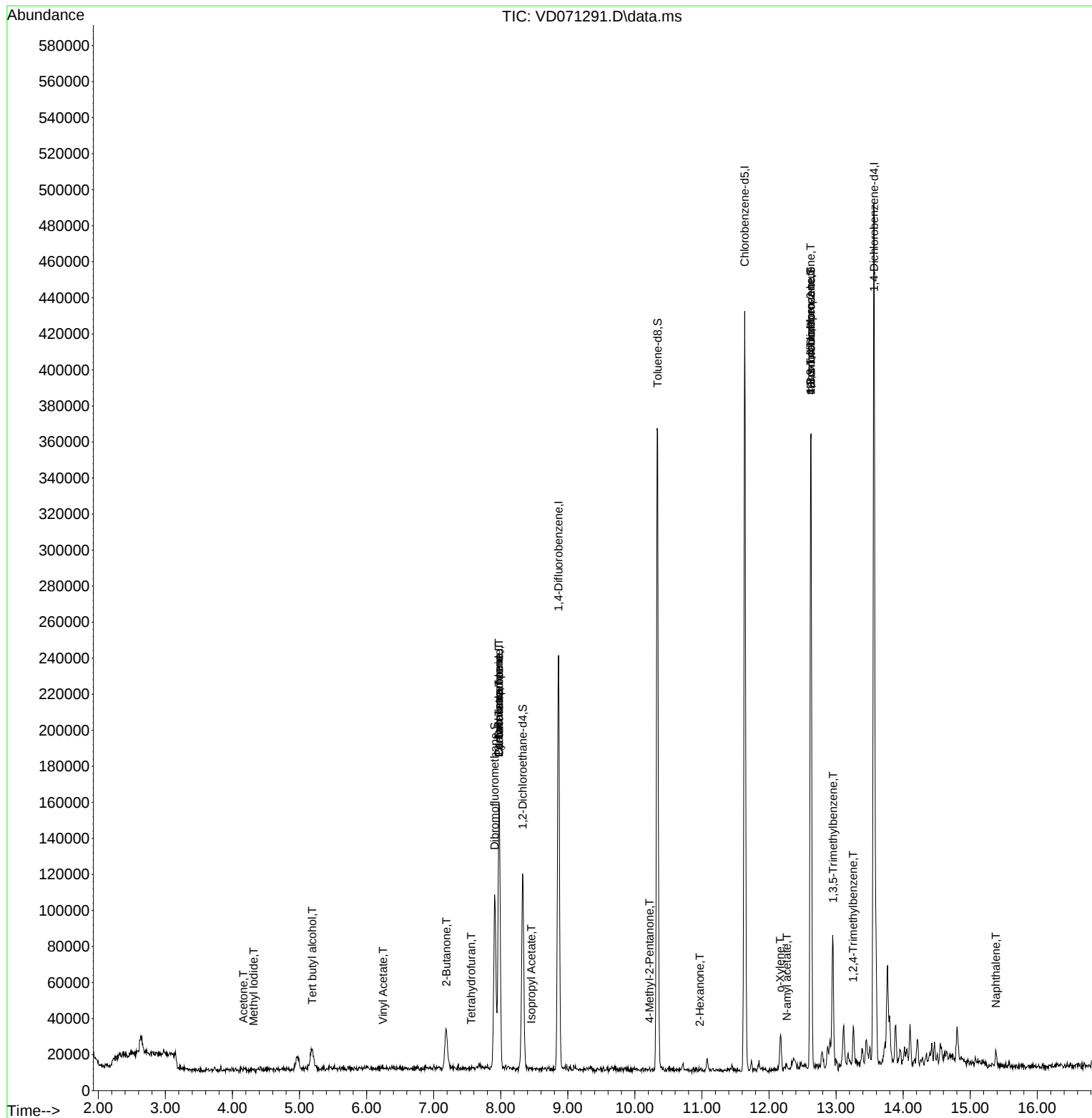
Internal Standards						
1) Pentafluorobenzene	7.973	168	106997	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	184260	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	215596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	118558	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	82095	65.389	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 130.780%	
35) Dibromofluoromethane	7.909	113	65639	55.942	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 111.880%	
50) Toluene-d8	10.338	98	235485	52.738	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.480%	
62) 4-Bromofluorobenzene	12.620	95	111580	72.089	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 144.180%#	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.315	142	65	4.608	ug/l #	40
11) Tert butyl alcohol	5.191	59	10511	76.069	ug/l #	73
16) Acetone	4.162	43	2075	36.254	ug/l #	70
23) Vinyl Acetate	6.244	43	174	27.294	ug/l #	72
25) 2-Butanone	7.191	43	859	30.337	ug/l #	45
29) Tetrahydrofuran	7.561	42	202	1.013	ug/l #	34
31) Cyclohexane	7.973	56	3636	1.703	ug/l #	48
36) 1,1-Dichloropropene	7.973	75	10248	5.951	ug/l #	49
38) Carbon Tetrachloride	7.973	117	11945	7.036	ug/l #	17
41) Methacrylonitrile	7.520	41	70	Below Cal	#	1
43) Isopropyl Acetate	8.456	43	82	5.268	ug/l #	47
51) 4-Methyl-2-Pentanone	10.220	43	381	31.050	ug/l #	34
59) 2-Hexanone	10.967	43	263	34.932	ug/l #	22
69) o-Xylene	12.167	106	4838	1.811	ug/l	92
71) Bromoform	12.626	173	1179	1.558	ug/l #	1
74) N-amyl acetate	12.267	43	1106	6.118	ug/l #	60
76) 1,2,3-Trichloropropane	12.620	75	62158	55.028	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.955	105	32255	4.556	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.620	75	62158	119.618	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.255	105	11658	1.687	ug/l	96
95) Naphthalene	15.385	128	7596	2.195	ug/l	99

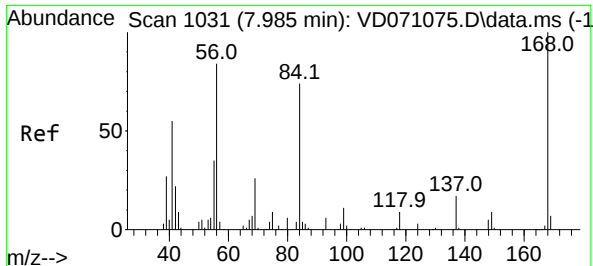
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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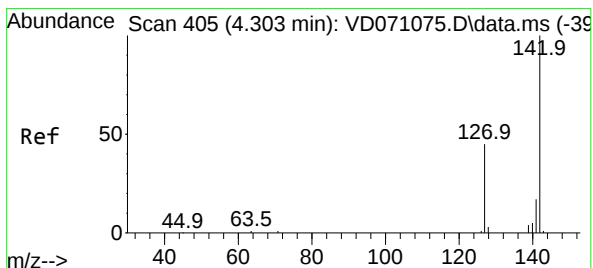
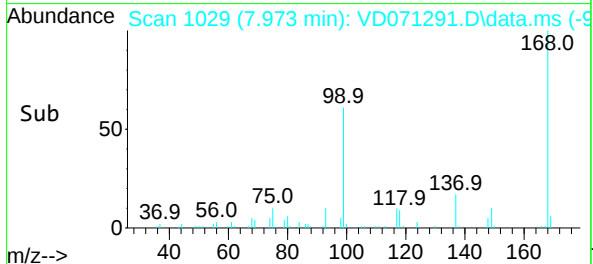
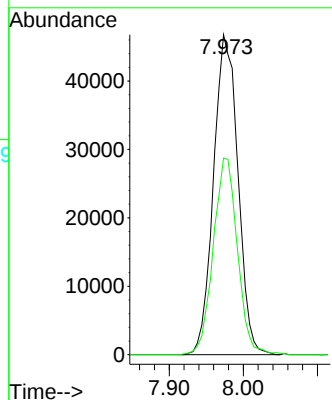
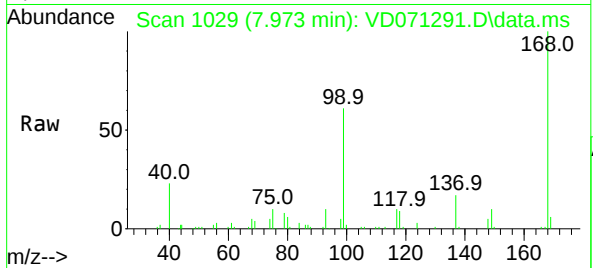




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

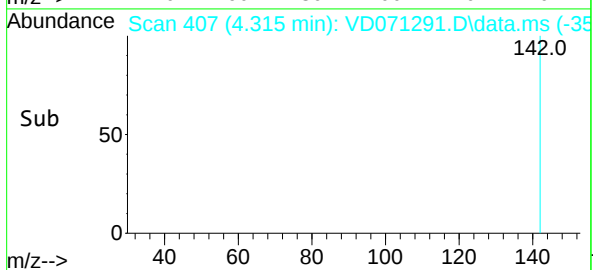
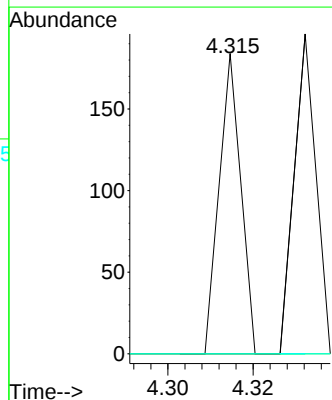
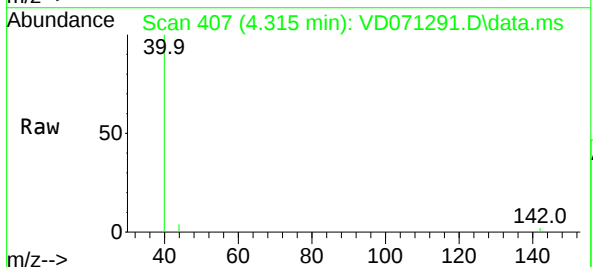
Instrument :
MSVOA_D
ClientSampleId :

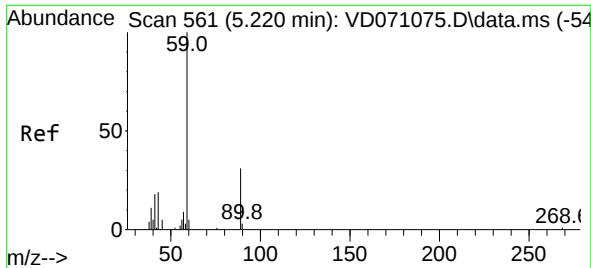
Tgt Ion:168 Resp: 106997
Ion Ratio Lower Upper
168 100
99 61.5 46.6 69.8



#10
Methyl Iodide
Concen: 4.608 ug/l
RT: 4.315 min Scan# 407
Delta R.T. 0.012 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion:142 Resp: 65
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

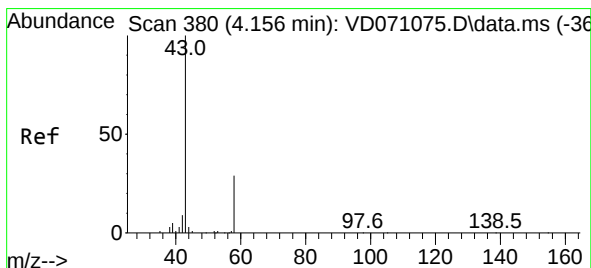
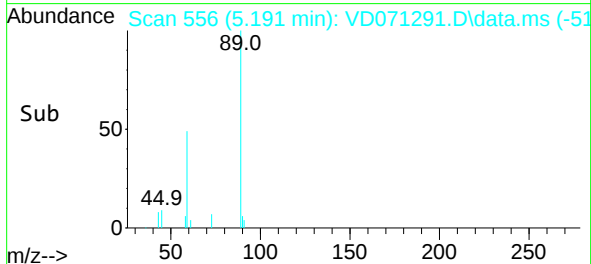
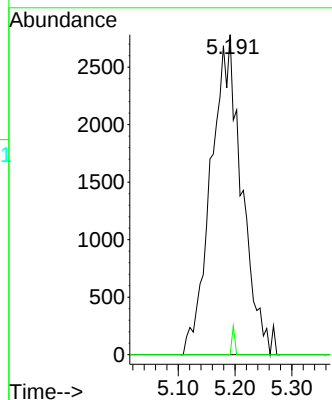
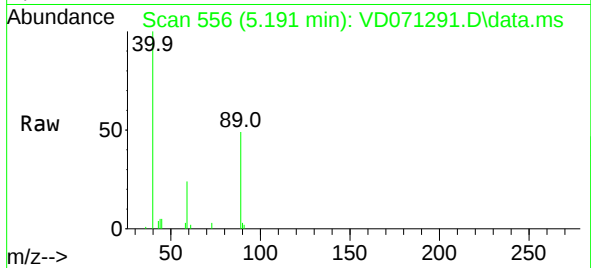




#11
Tert butyl alcohol
Concen: 76.069 ug/l
RT: 5.191 min Scan# 51
Delta R.T. -0.029 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

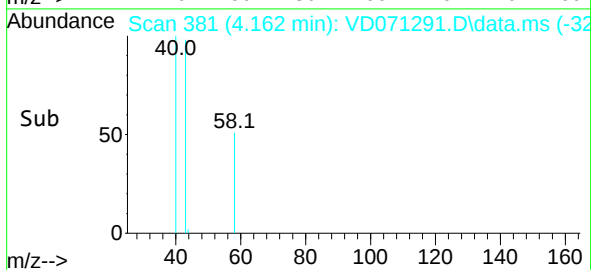
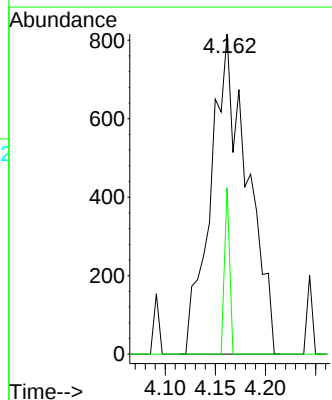
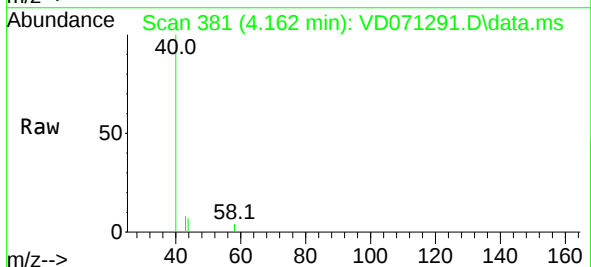
Instrument :
MSVOA_D
ClientSampleId :

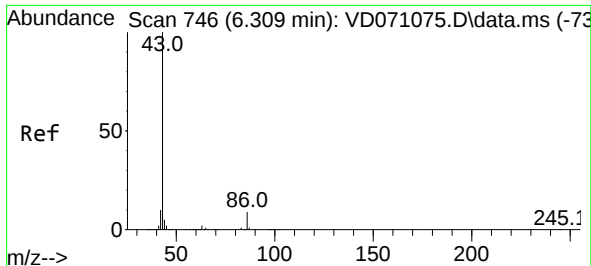
Tgt Ion: 59 Resp: 10511
Ion Ratio Lower Upper
59 100
57 0.8 9.0 13.4#



#16
Acetone
Concen: 36.254 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion: 43 Resp: 2075
Ion Ratio Lower Upper
43 100
58 52.0 27.8 41.8#

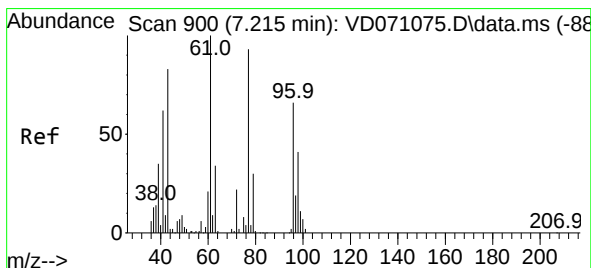
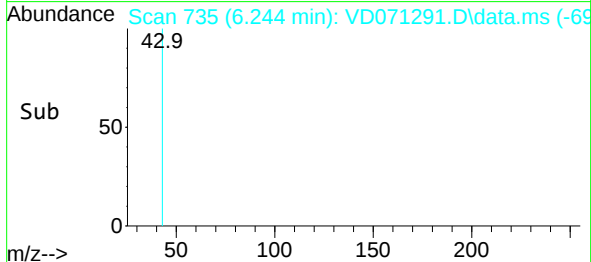
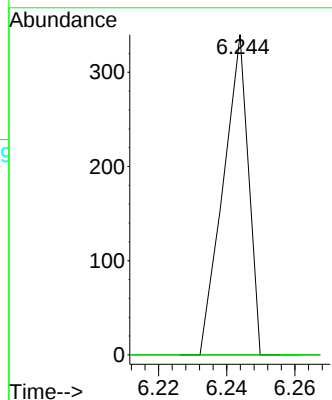
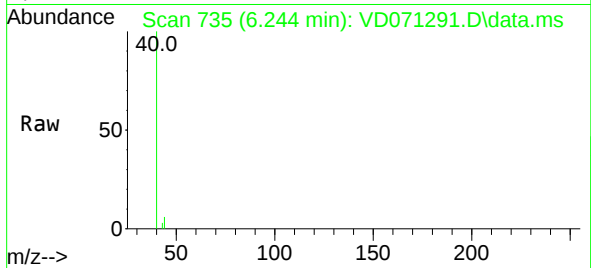




#23
 Vinyl Acetate
 Concen: 27.294 ug/l
 RT: 6.244 min Scan# 71
 Delta R.T. -0.065 min
 Lab File: VD071291.D
 Acq: 13 Dec 2021 12:44

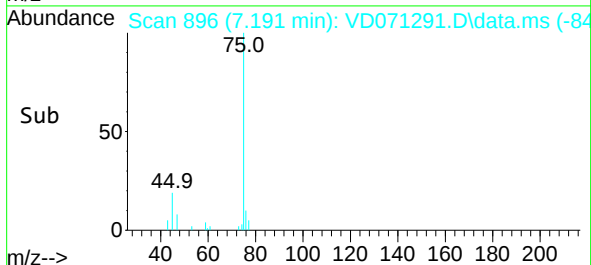
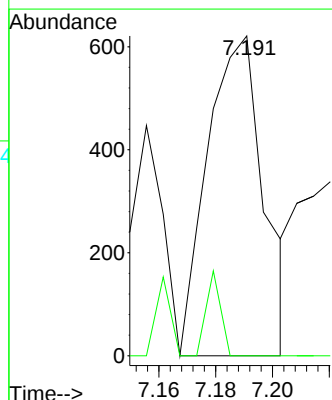
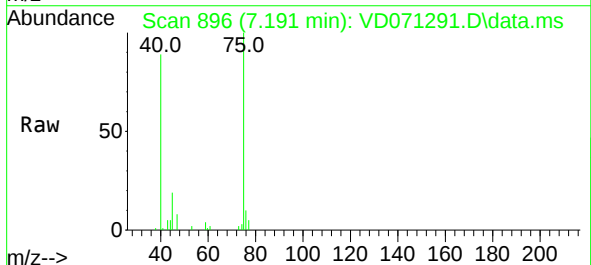
Instrument :
 MSVOA_D
 ClientSampleId :

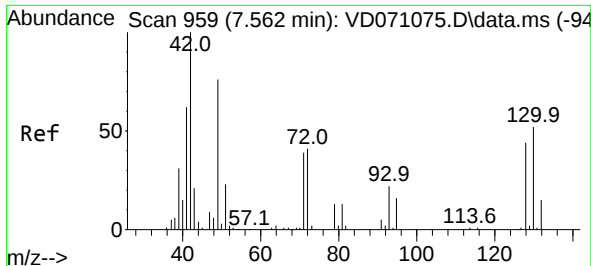
Tgt Ion: 43 Resp: 174
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 30.337 ug/l
 RT: 7.191 min Scan# 896
 Delta R.T. -0.024 min
 Lab File: VD071291.D
 Acq: 13 Dec 2021 12:44

Tgt Ion: 43 Resp: 859
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 1.013 ug/l

RT: 7.561 min Scan# 91

Delta R.T. -0.001 min

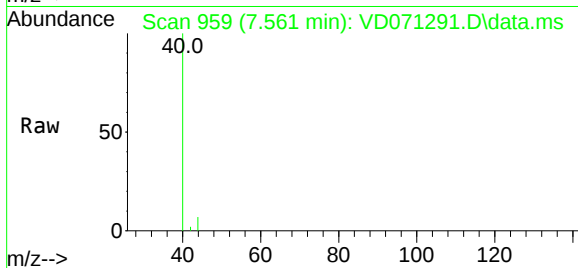
Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

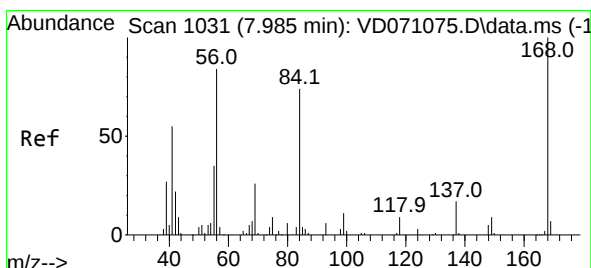
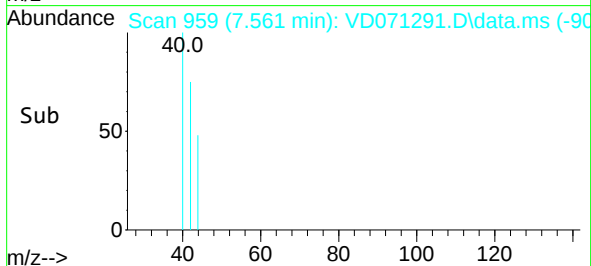
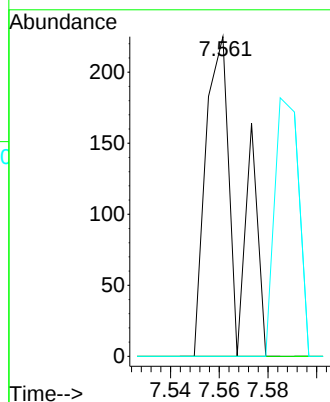
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 42	Resp: 202
Ion Ratio	Lower Upper
42	100
72	0.0 33.7 50.5#
71	0.0 32.7 49.1#



#31

Cyclohexane

Concen: 1.703 ug/l

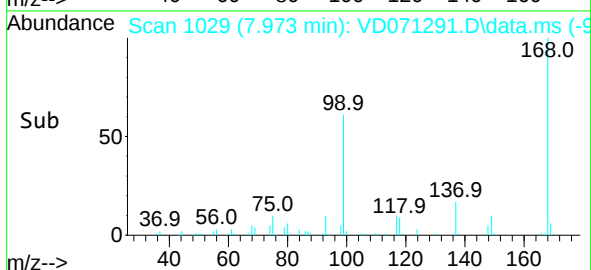
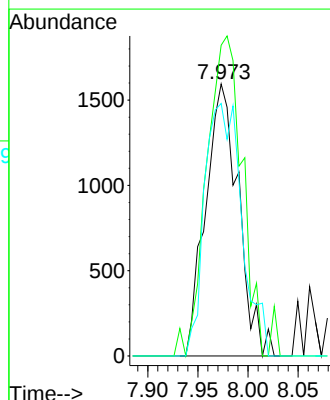
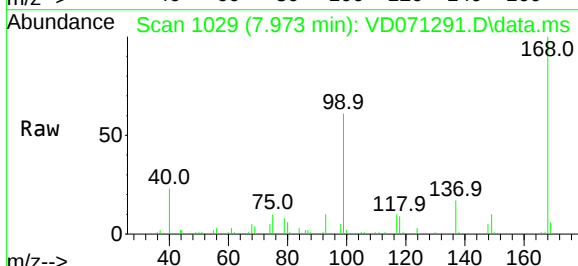
RT: 7.973 min Scan# 1029

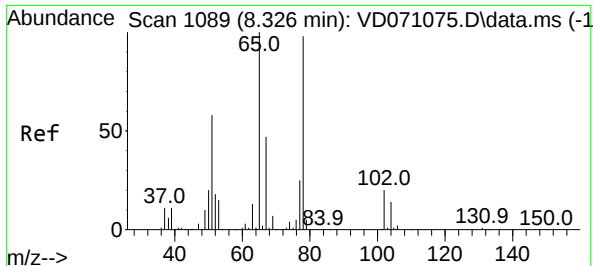
Delta R.T. -0.012 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Tgt Ion: 56	Resp: 3636
Ion Ratio	Lower Upper
56	100
69	114.2 25.9 38.9#
84	92.8 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 65.389 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Instrument :

MSVOA_D

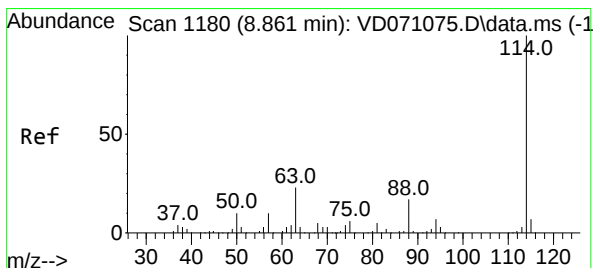
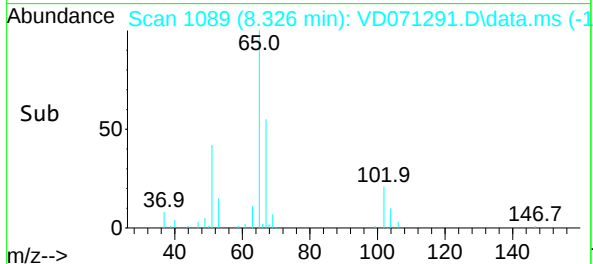
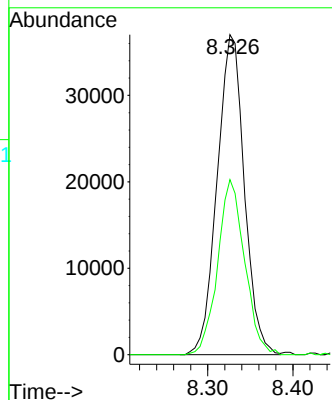
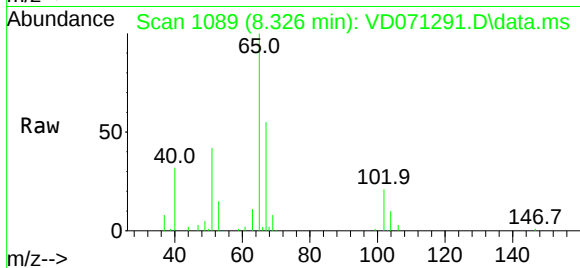
ClientSampleId :

Tgt Ion: 65 Resp: 82095

Ion Ratio Lower Upper

65 100

67 54.3 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: VD071291.D

Acq: 13 Dec 2021 12:44

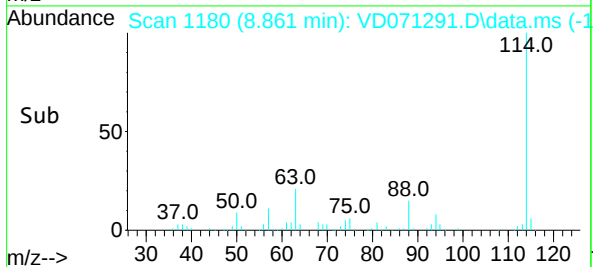
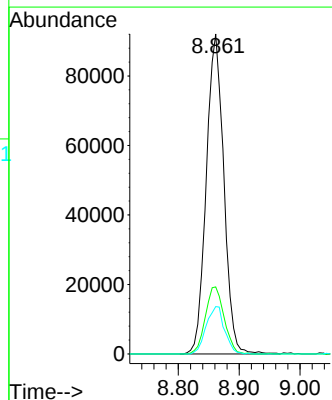
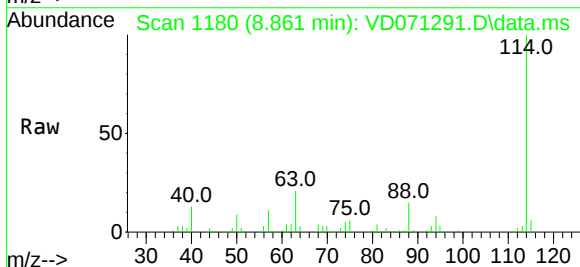
Tgt Ion: 114 Resp: 184260

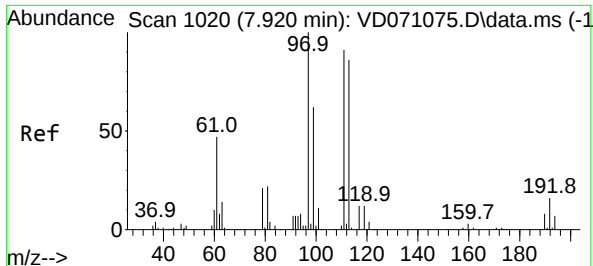
Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.8

88 14.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 55.942 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.011 min

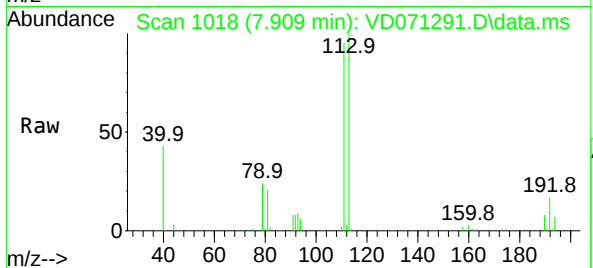
Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Instrument :

MSVOA_D

ClientSampleId :



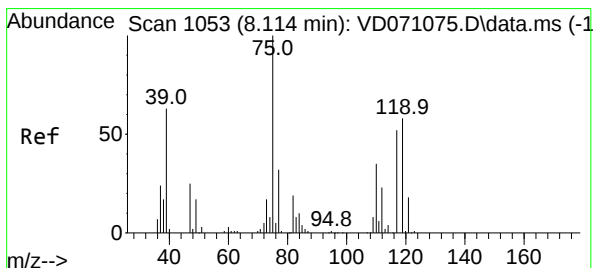
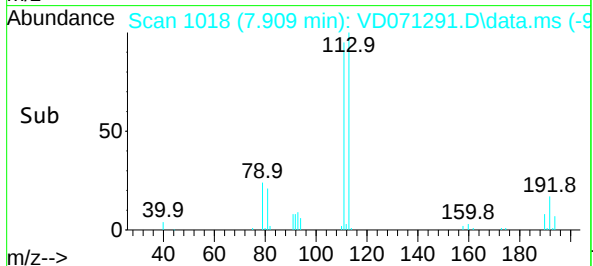
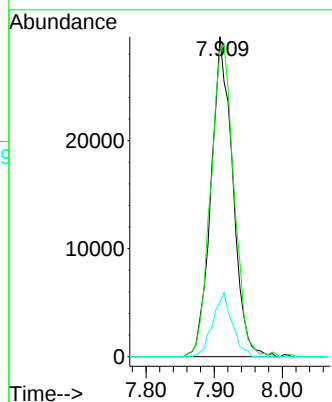
Tgt Ion:113 Resp: 65639

Ion Ratio Lower Upper

113 100

111 104.6 82.0 123.0

192 17.9 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.951 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

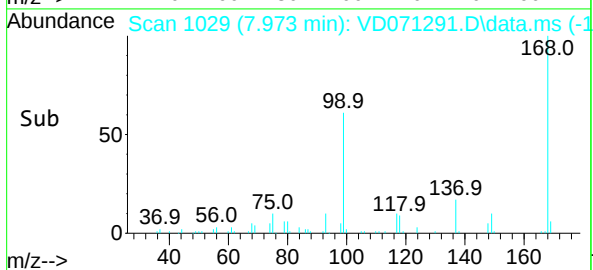
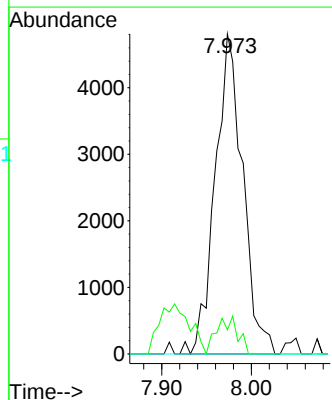
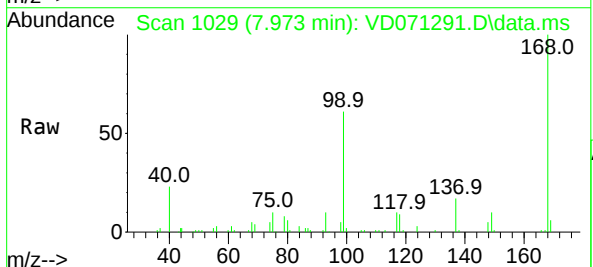
Tgt Ion: 75 Resp: 10248

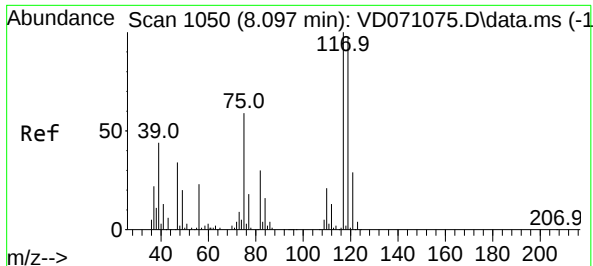
Ion Ratio Lower Upper

75 100

110 8.9 17.8 53.4#

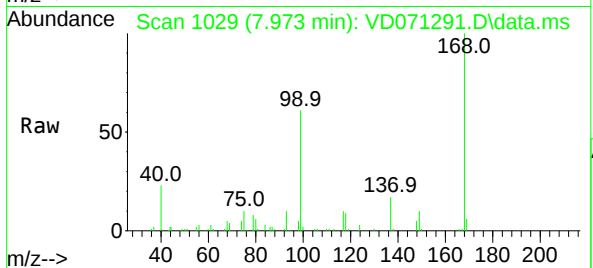
77 0.0 24.8 37.2#



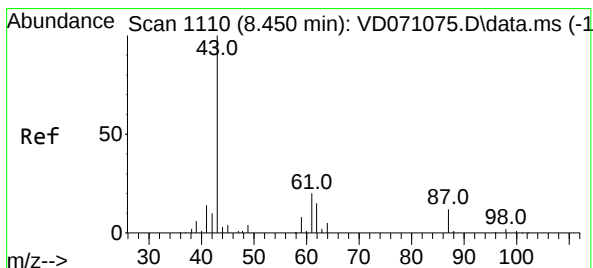
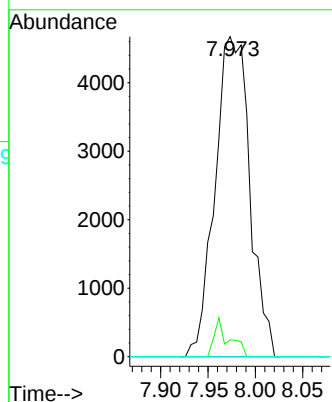
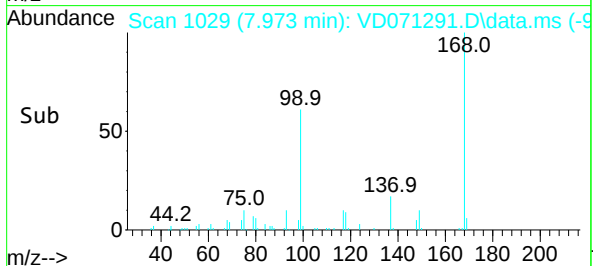


#38
Carbon Tetrachloride
Concen: 7.036 ug/l
RT: 7.973 min Scan# 1109
Delta R.T. -0.124 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Instrument :
MSVOA_D
ClientSampleId :

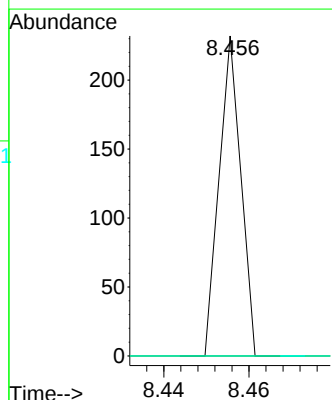
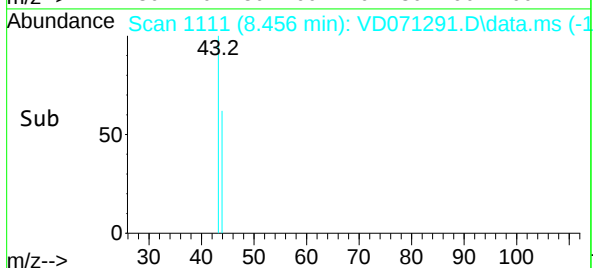
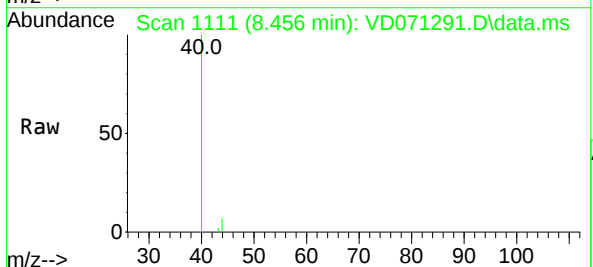


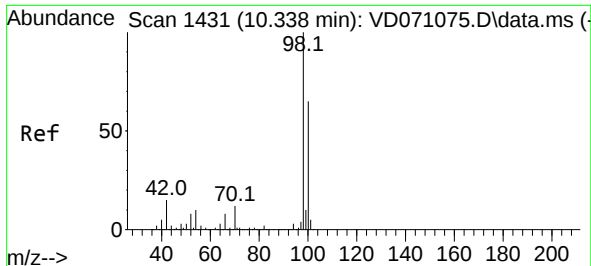
Tgt Ion:117 Resp: 11945
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.268 ug/l
RT: 8.456 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#

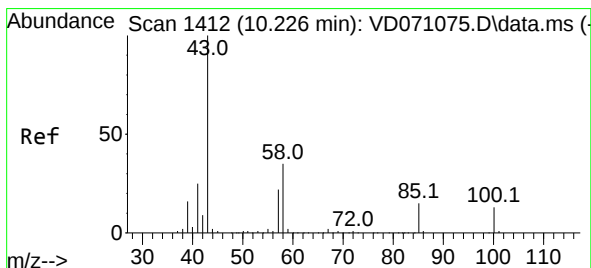
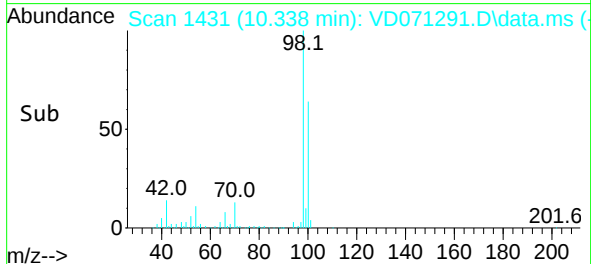
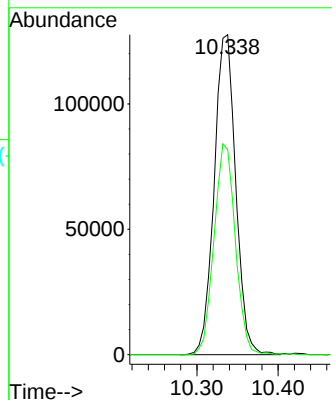
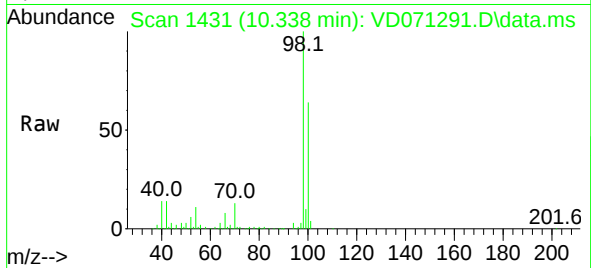




#50
Toluene-d8
Concen: 52.738 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

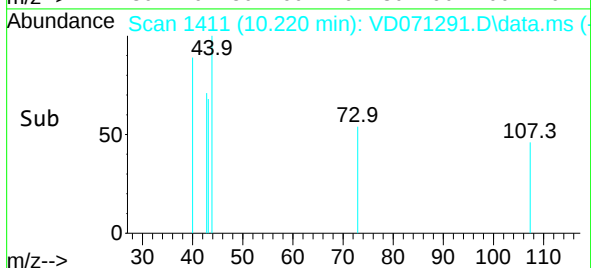
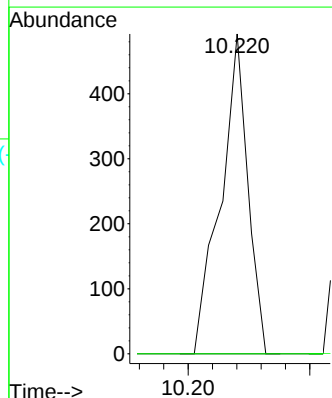
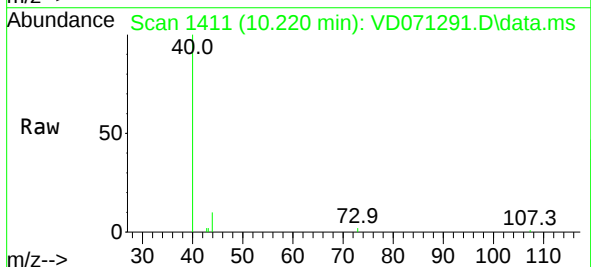
Instrument :
MSVOA_D
ClientSampleId :

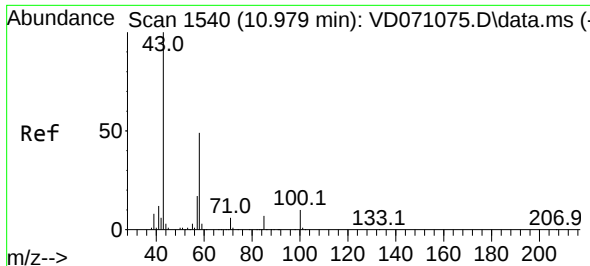
Tgt Ion: 98 Resp: 235485
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.050 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion: 43 Resp: 381
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

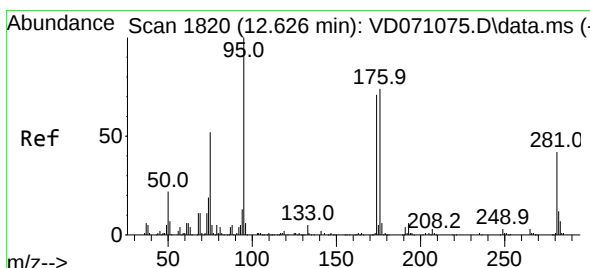
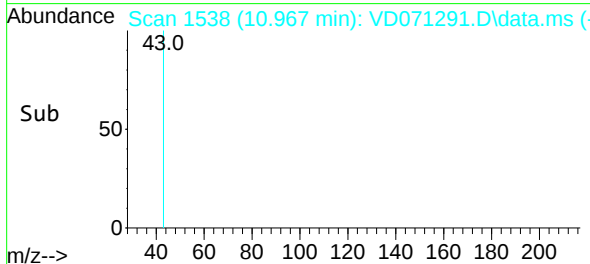
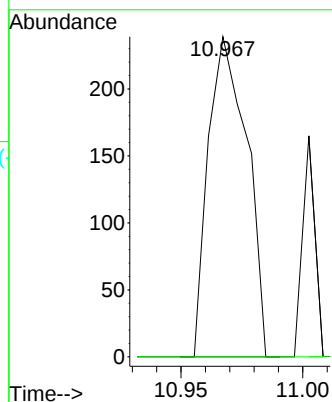
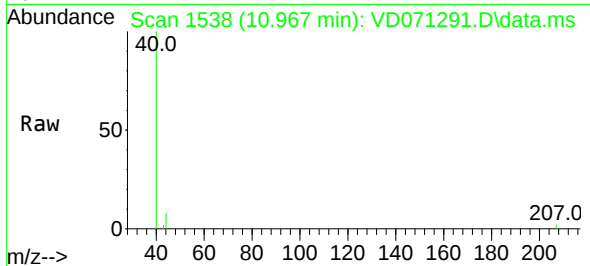




#59
2-Hexanone
Concen: 34.932 ug/l
RT: 10.967 min Scan# 11
Delta R.T. -0.012 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

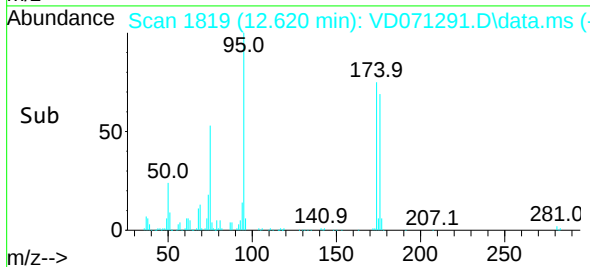
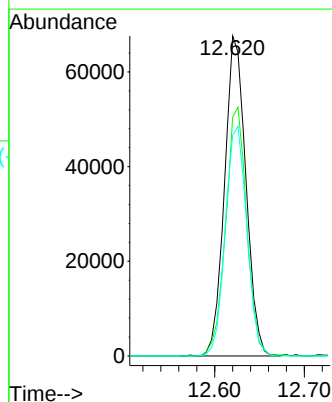
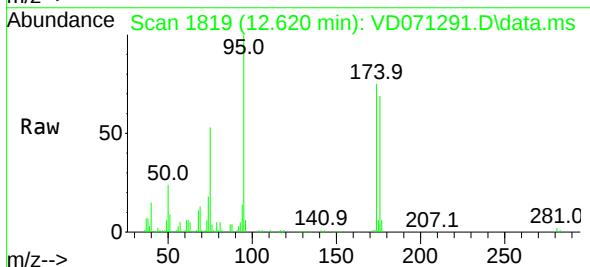
Instrument :
MSVOA_D
ClientSampleId :

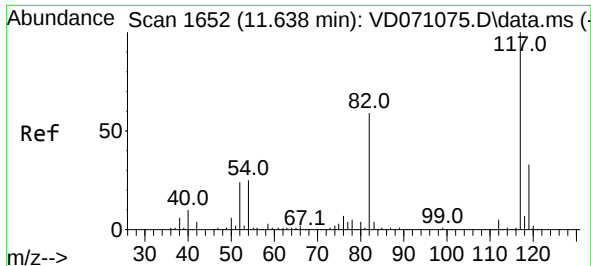
Tgt Ion: 43 Resp: 263
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 72.089 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

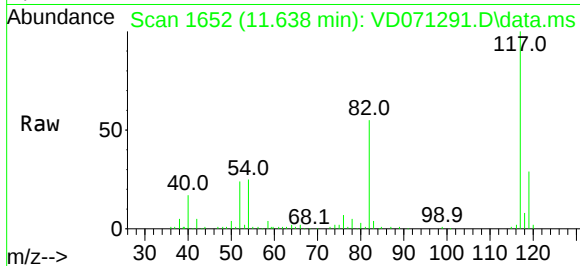
Tgt Ion: 95 Resp: 111580
Ion Ratio Lower Upper
95 100
174 76.5 0.0 159.4
176 72.7 0.0 154.0



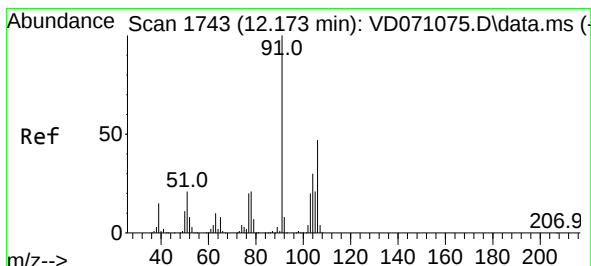
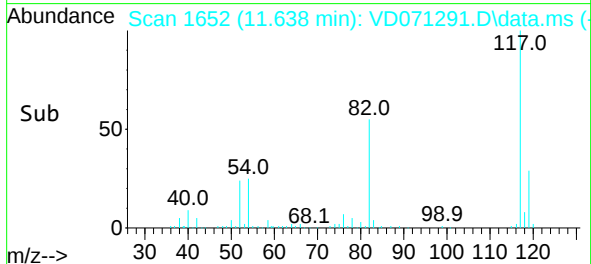
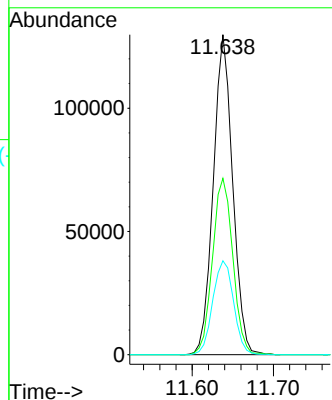


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Instrument :
MSVOA_D
ClientSampleId :

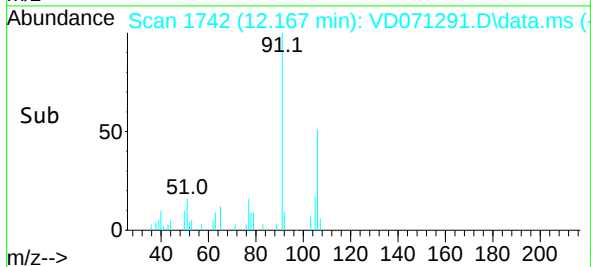
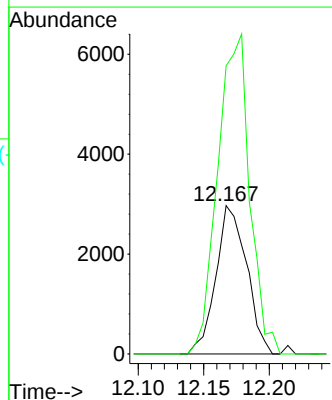
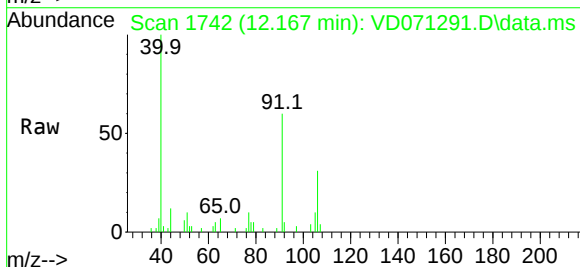


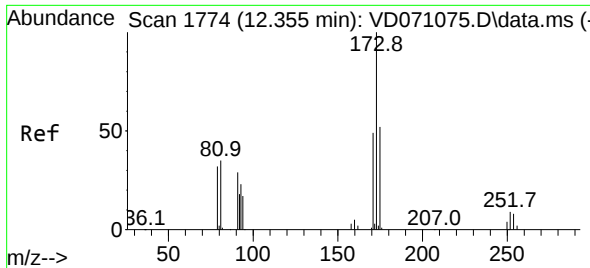
Tgt Ion:117 Resp: 215596
Ion Ratio Lower Upper
117 100
82 55.1 44.7 67.1
119 29.4 26.2 39.4



#69
o-Xylene
Concen: 1.811 ug/l
RT: 12.167 min Scan# 1742
Delta R.T. -0.006 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion:106 Resp: 4838
Ion Ratio Lower Upper
106 100
91 225.0 106.3 319.0

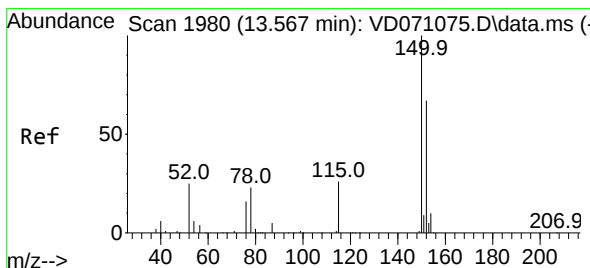
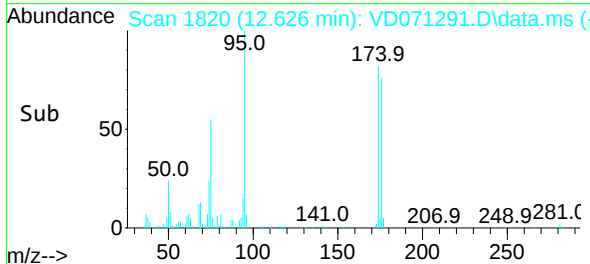
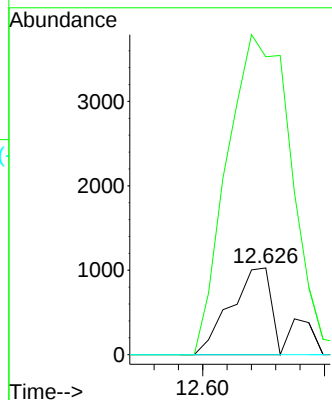
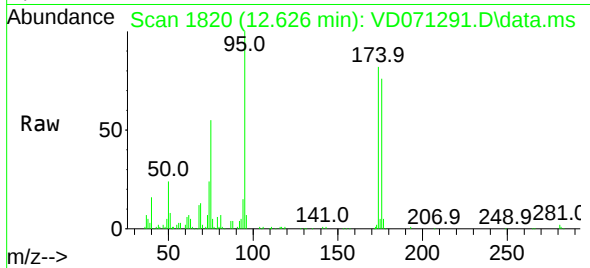




#71
Bromoform
Concen: 1.558 ug/l
RT: 12.626 min Scan# 1179
Delta R.T. 0.271 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

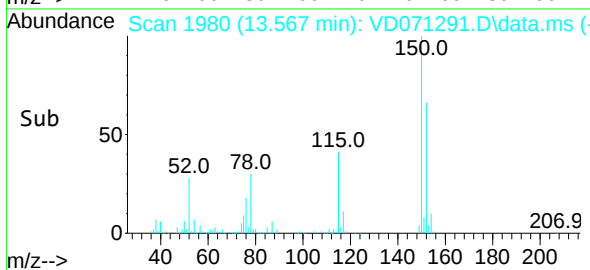
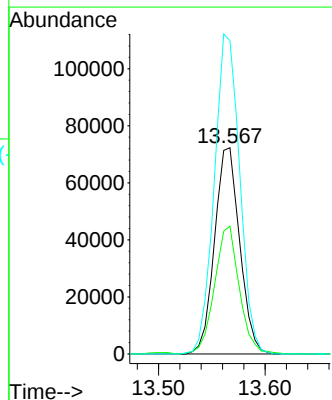
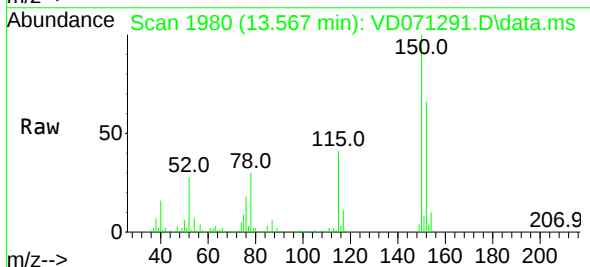
Instrument :
MSVOA_D
ClientSampleId :

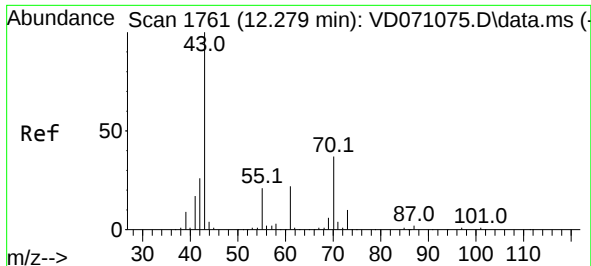
Tgt Ion:173 Resp: 1179
Ion Ratio Lower Upper
173 100
175 392.8 24.1 72.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion:152 Resp: 118558
Ion Ratio Lower Upper
152 100
115 61.1 29.8 89.3
150 157.0 0.0 349.2

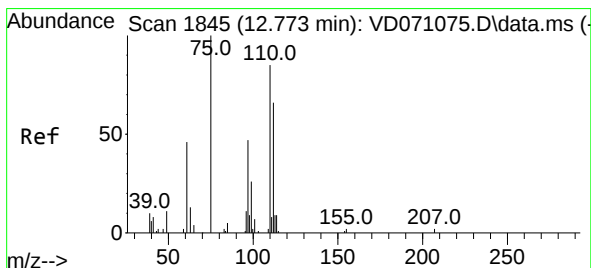
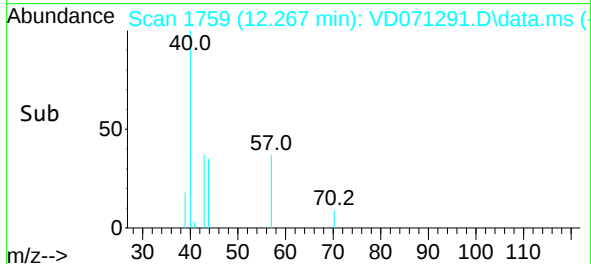
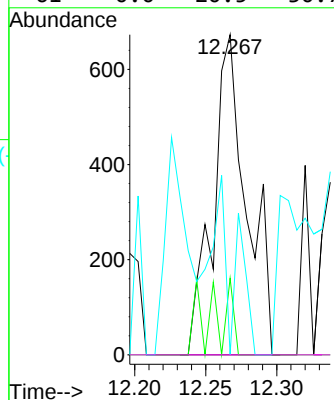
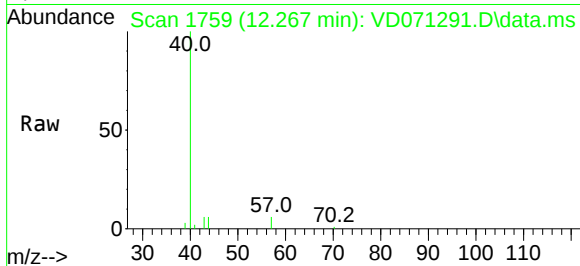




#74
N-amy1 acetate
Concen: 6.118 ug/l
RT: 12.267 min Scan# 1106
Delta R.T. -0.012 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

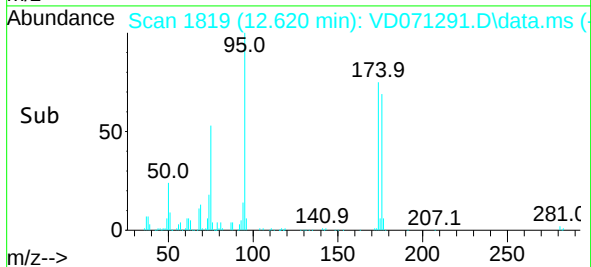
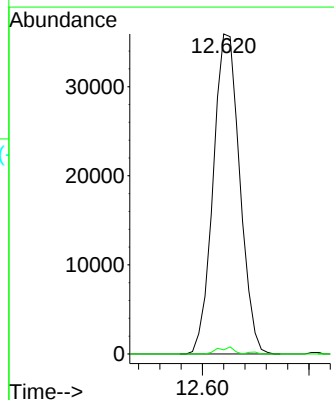
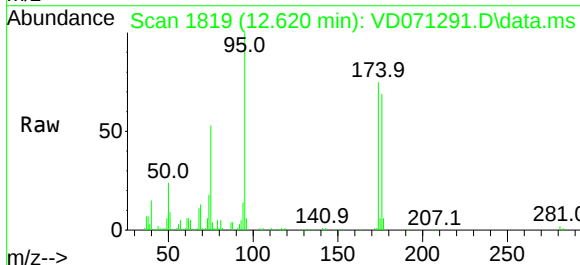
Instrument :
MSVOA_D
ClientSampleId :

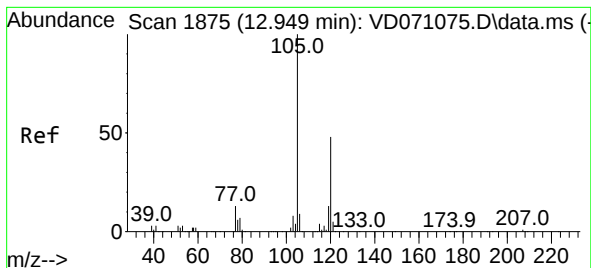
Tgt Ion: 43 Resp: 1106
Ion Ratio Lower Upper
43 100
70 10.0 36.6 55.0#
55 25.0 22.5 33.7
61 0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 55.028 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071291.D
Acq: 13 Dec 2021 12:44

Tgt Ion: 75 Resp: 62158
Ion Ratio Lower Upper
75 100
77 1.3 158.4 475.3#





#80

1,3,5-Trimethylbenzene

Concen: 4.556 ug/l

RT: 12.955 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Instrument :

MSVOA_D

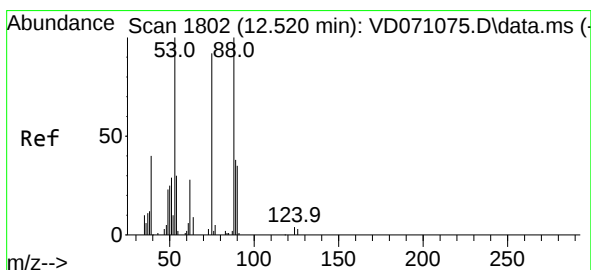
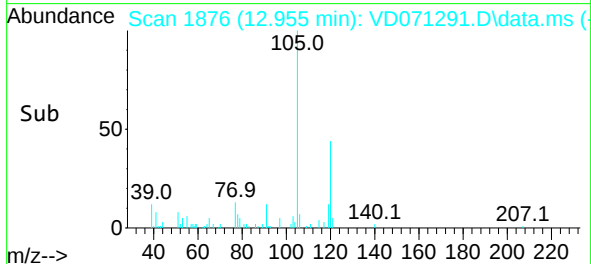
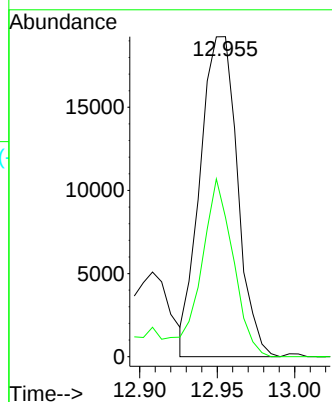
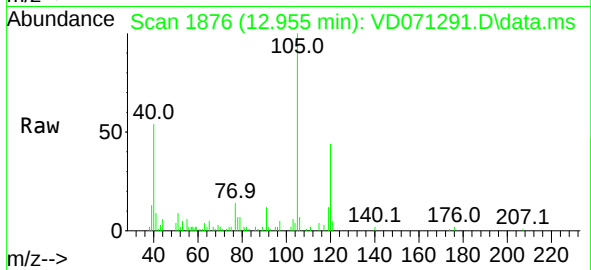
ClientSampleId :

Tgt Ion:105 Resp: 32255

Ion Ratio Lower Upper

105 100

120 47.4 24.6 73.8



#81

trans-1,4-Dichloro-2-butene

Concen: 119.618 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.100 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

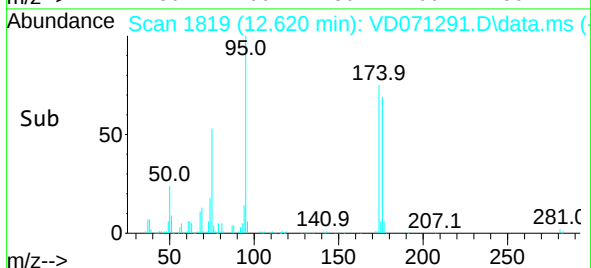
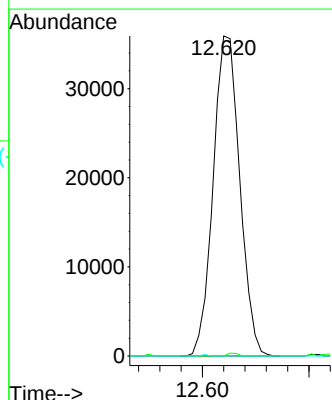
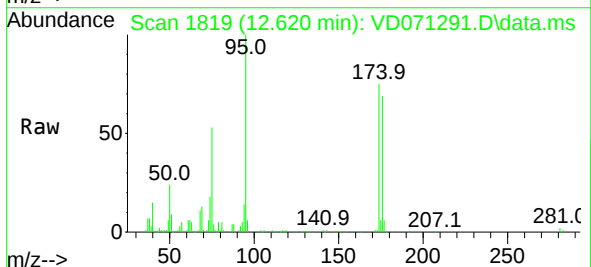
Tgt Ion: 75 Resp: 62158

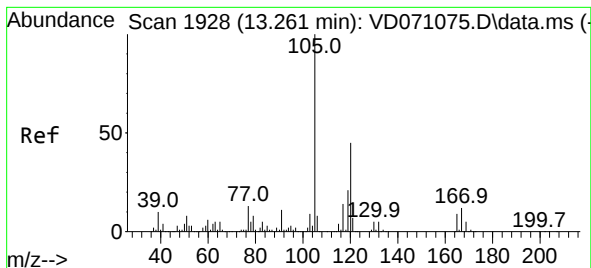
Ion Ratio Lower Upper

75 100

53 0.3 62.6 94.0#

89 0.0 34.5 51.7#





#84

1,2,4-Trimethylbenzene

Concen: 1.687 ug/l

RT: 13.255 min Scan# 1927

Delta R.T. -0.006 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Instrument :

MSVOA_D

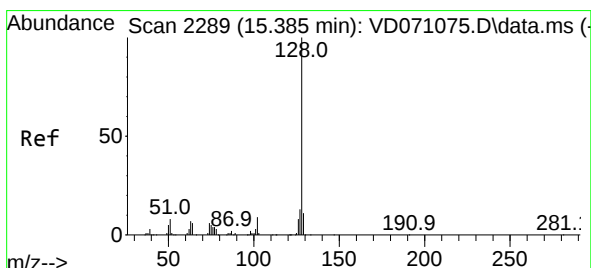
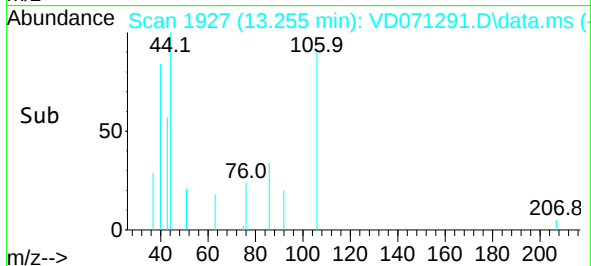
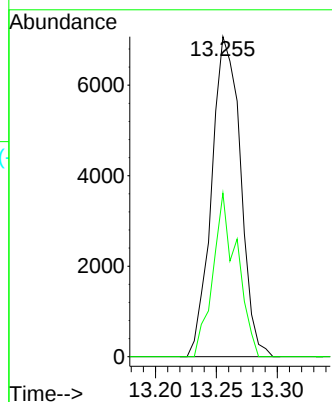
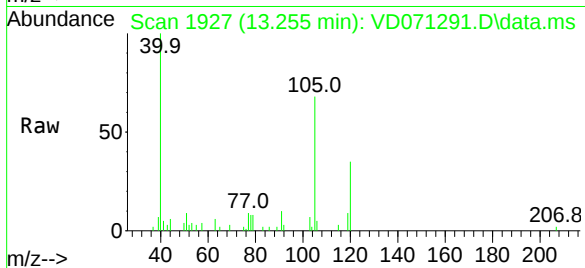
ClientSampleId :

Tgt Ion:105 Resp: 11658

Ion Ratio Lower Upper

105 100

120 42.9 22.9 68.7



#95

Naphthalene

Concen: 2.195 ug/l

RT: 15.385 min Scan# 2289

Delta R.T. -0.000 min

Lab File: VD071291.D

Acq: 13 Dec 2021 12:44

Tgt Ion:128 Resp: 7596

Ion Ratio Lower Upper

128 100

127 13.2 10.7 16.1

129 11.8 8.7 13.1

