

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD010322\
 Data File : VD071568.D
 Acq On : 03 Jan 2022 16:17
 Operator : VA/SY
 Sample : M5196-11
 Misc : 6.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 04 00:49:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

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

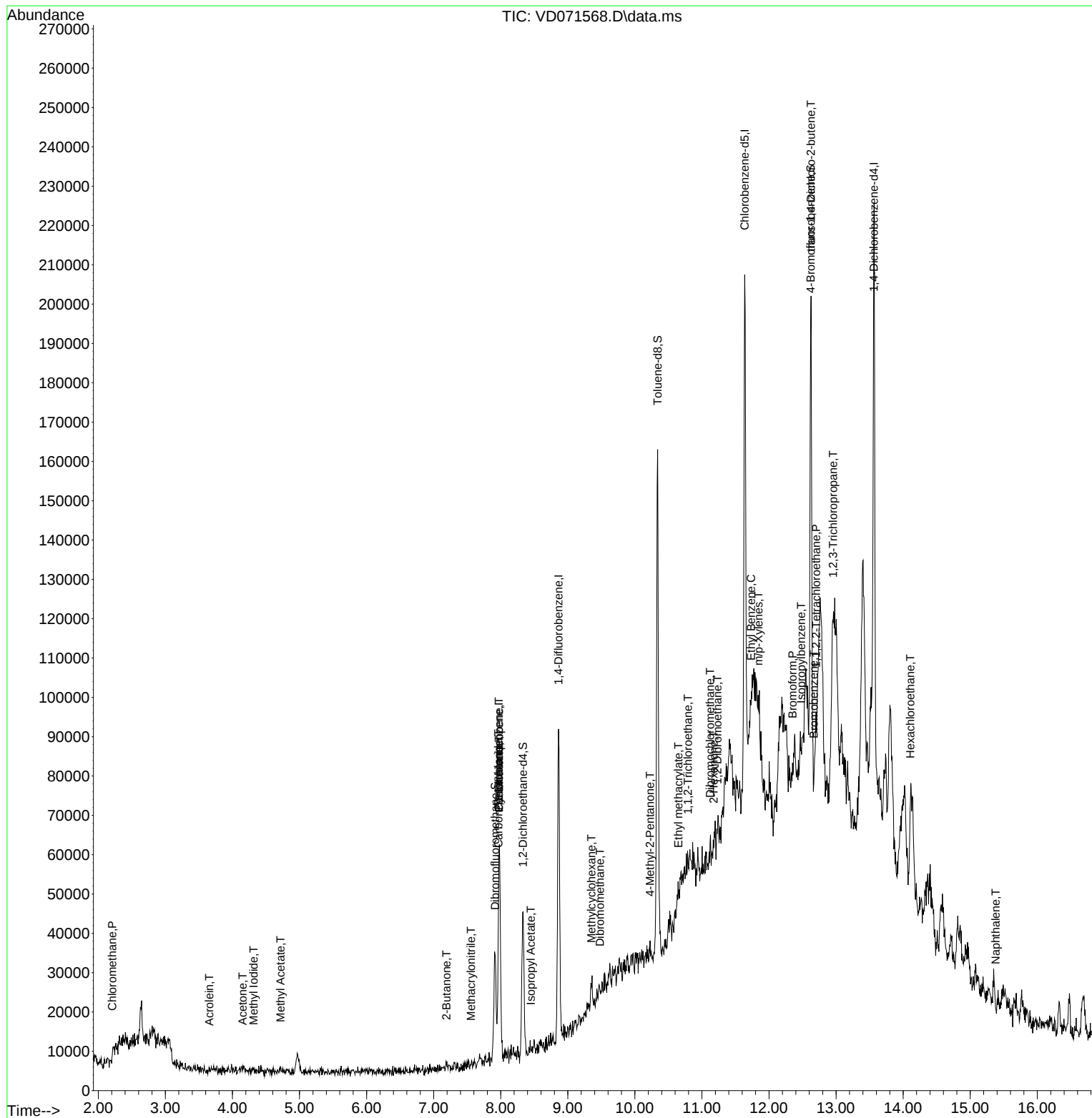
Internal Standards						
1) Pentafluorobenzene	7.973	168	34651	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	60936	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	69618	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	35095	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	28991	62.997	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.000%			
35) Dibromofluoromethane	7.914	113	18733	45.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.480%			
50) Toluene-d8	10.338	98	82700	53.436	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 106.880%			
62) 4-Bromofluorobenzene	12.620	95	37949	69.004	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 138.000%			
Target Compounds						Qvalue
3) Chloromethane	2.209	50	978	2.104	ug/l #	83
10) Methyl Iodide	4.315	142	542	1.405	ug/l #	78
11) Tert butyl alcohol	5.191	59	111	Below Cal	#	71
13) Acrolein	3.656	56	90	4.048	ug/l #	13
16) Acetone	4.150	43	2067	17.882	ug/l #	40
18) Methyl Acetate	4.715	43	1054	2.954	ug/l #	51
25) 2-Butanone	7.191	43	274	1.985	ug/l #	45
31) Cyclohexane	7.973	56	2079	2.659	ug/l #	40
36) 1,1-Dichloropropene	7.973	75	3099	4.736	ug/l #	62
38) Carbon Tetrachloride	7.967	117	4404	6.822	ug/l #	31
39) Methylcyclohexane	9.350	83	2345	3.062	ug/l #	84
41) Methacrylonitrile	7.556	41	856	4.771	ug/l #	21
43) Isopropyl Acetate	8.450	43	778	1.298	ug/l #	47
46) Dibromomethane	9.479	93	425	1.685	ug/l #	55
51) 4-Methyl-2-Pentanone	10.226	43	1031	3.269	ug/l #	34
55) 1,1,2-Trichloroethane	10.791	97	1261	3.940	ug/l #	65
56) Ethyl methacrylate	10.650	69	820	1.947	ug/l #	86
59) 2-Hexanone	11.173	43	277	1.243	ug/l	98
60) Dibromochloromethane	11.120	129	685	1.703	ug/l	89
61) 1,2-Dibromoethane	11.232	107	588	1.855	ug/l #	72
67) Ethyl Benzene	11.732	91	3214	1.209	ug/l #	60
68) m/p-Xylenes	11.844	106	2335	2.313	ug/l #	63
71) Bromoform	12.349	173	415	1.470	ug/l #	23
73) Isopropylbenzene	12.479	105	3103	1.147	ug/l	82
75) 1,1,2,2-Tetrachloroethane	12.702	83	1757	3.592	ug/l #	62
76) 1,2,3-Trichloropropane	12.955	75	1233	2.957	ug/l	62
77) Bromobenzene	12.667	156	2025	3.363	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	21518	145.806	ug/l #	21
90) Hexachloroethane	14.108	117	861	1.884	ug/l #	22
95) Naphthalene	15.379	128	3136	2.627	ug/l #	89

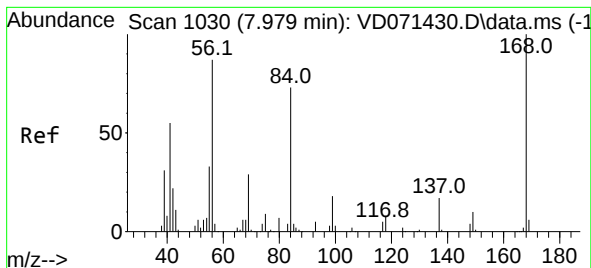
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 23 08:20:24 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.973 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

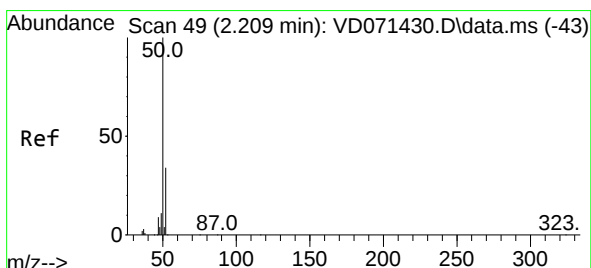
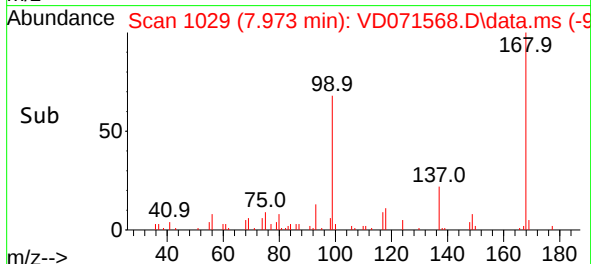
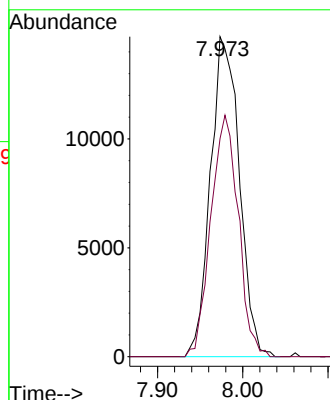
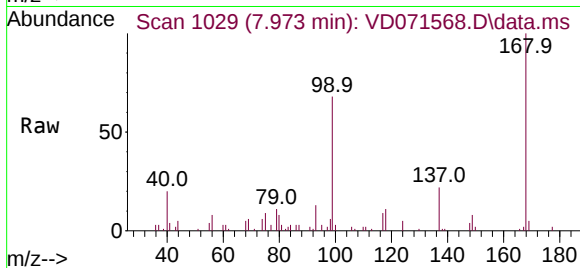
ClientSampleId :

Tgt Ion:168 Resp: 34651

Ion Ratio Lower Upper

168 100

99 68.2 46.6 69.8



#3

Chloromethane

Concen: 2.104 ug/l

RT: 2.209 min Scan# 49

Delta R.T. -0.000 min

Lab File: VD071568.D

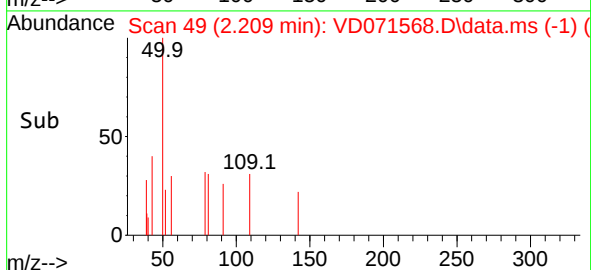
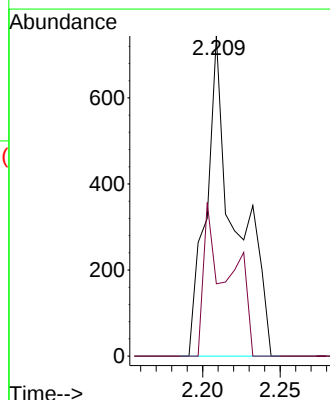
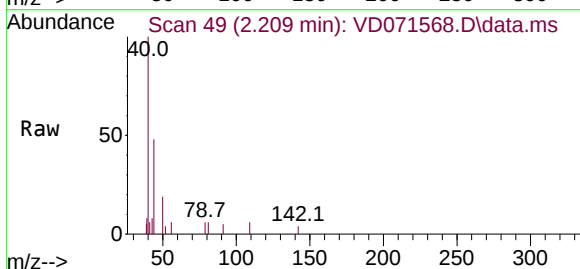
Acq: 03 Jan 2022 16:17

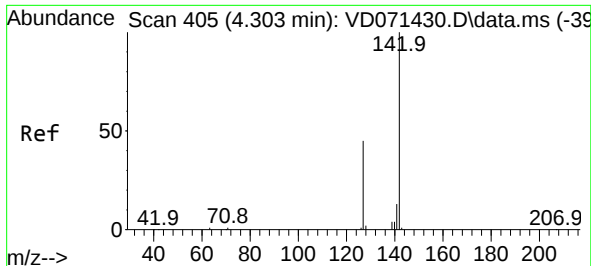
Tgt Ion: 50 Resp: 978

Ion Ratio Lower Upper

50 100

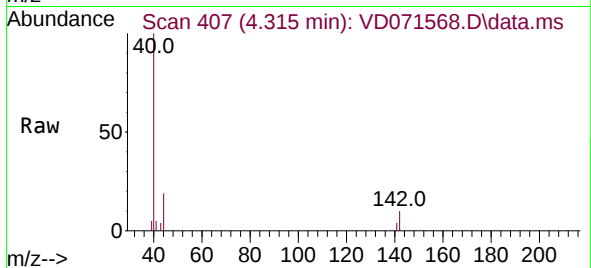
52 22.6 25.8 38.8#



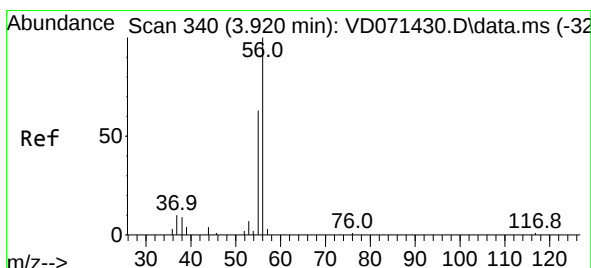
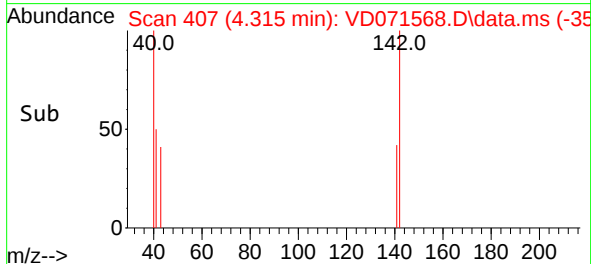
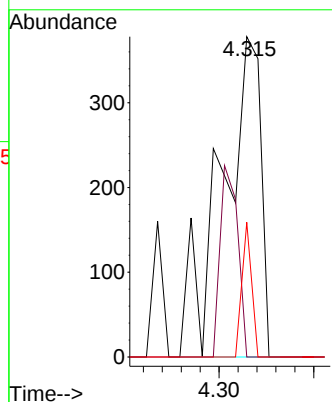


#10
Methyl Iodide
Concen: 1.405 ug/l
RT: 4.315 min Scan# 405
Delta R.T. 0.018 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :

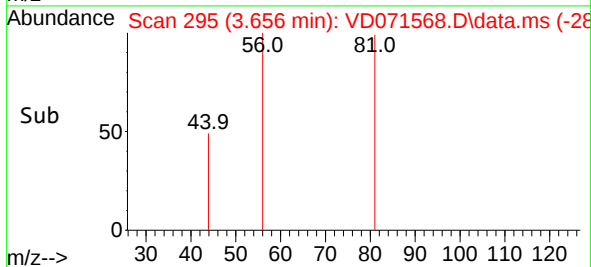
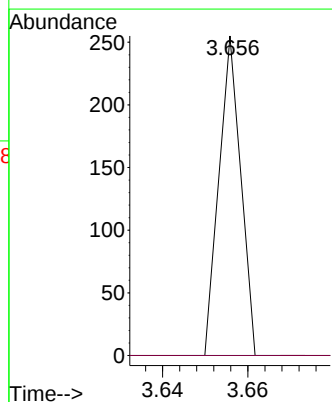
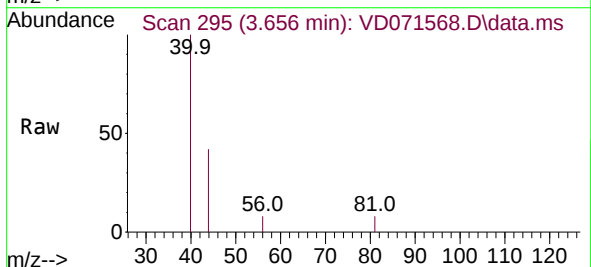


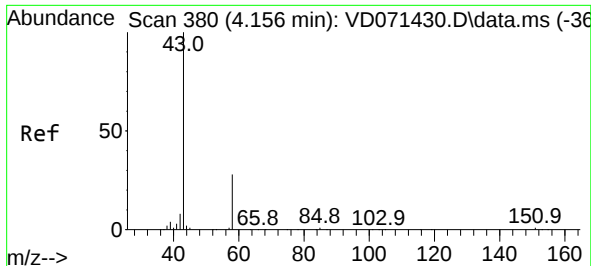
Tgt Ion:142 Resp: 542
Ion Ratio Lower Upper
142 100
127 26.8 35.0 52.4#
141 10.3 12.0 18.0#



#13
Acrolein
Concen: 4.048 ug/l
RT: 3.656 min Scan# 295
Delta R.T. -0.258 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 56 Resp: 90
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#

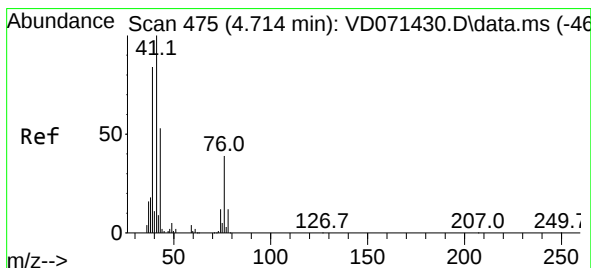
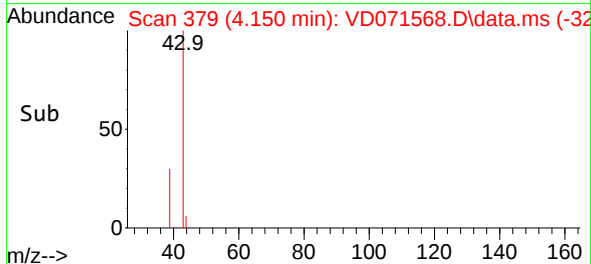
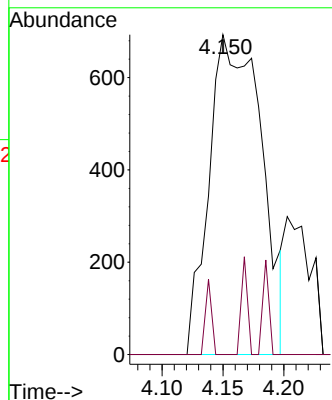
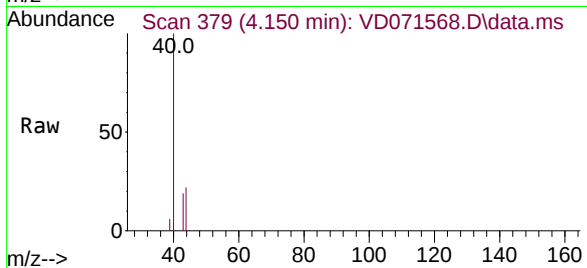




#16
Acetone
Concen: 17.882 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

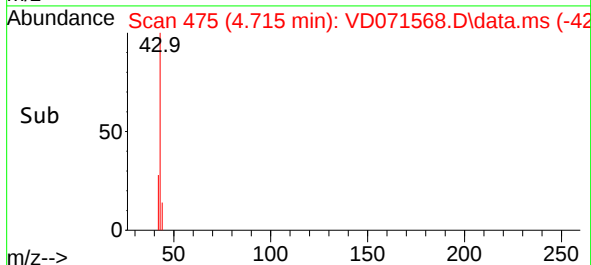
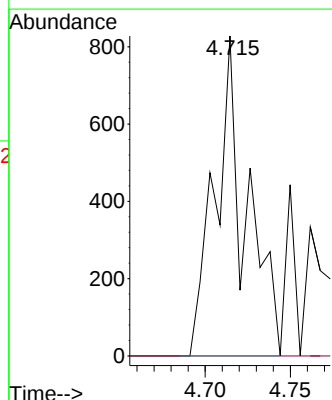
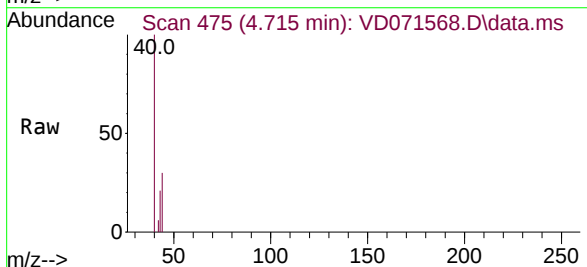
Instrument :
MSVOA_D
ClientSampleId :

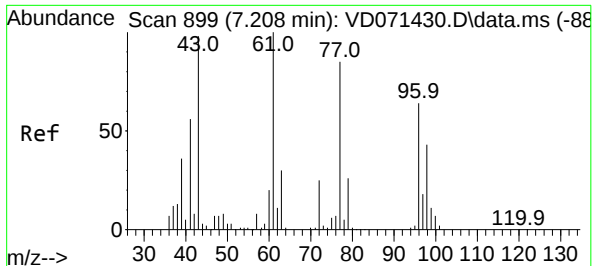
Tgt Ion: 43 Resp: 2067
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 2.954 ug/l
RT: 4.715 min Scan# 475
Delta R.T. -0.005 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 43 Resp: 1054
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#

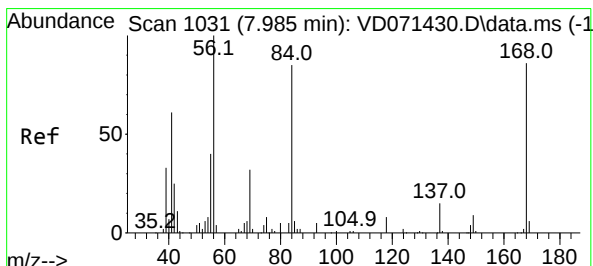
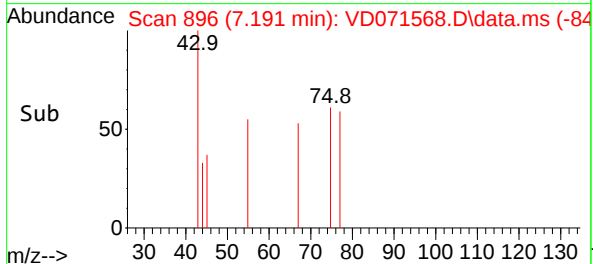
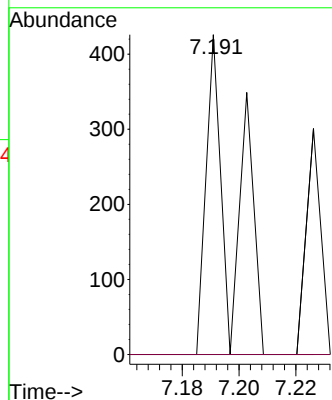
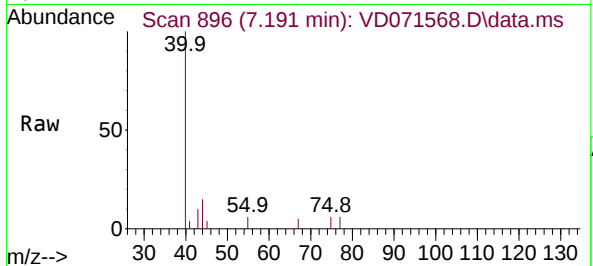




#25
2-Butanone
Concen: 1.985 ug/l
RT: 7.191 min Scan# 899
Delta R.T. -0.017 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

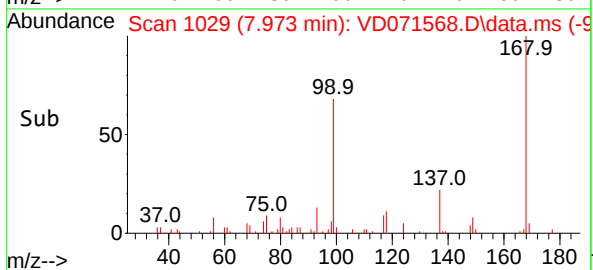
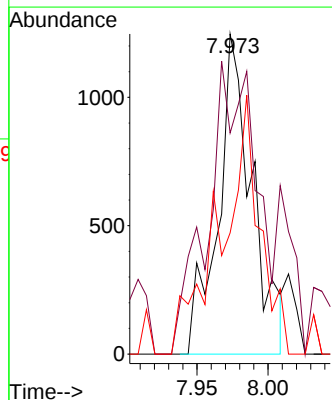
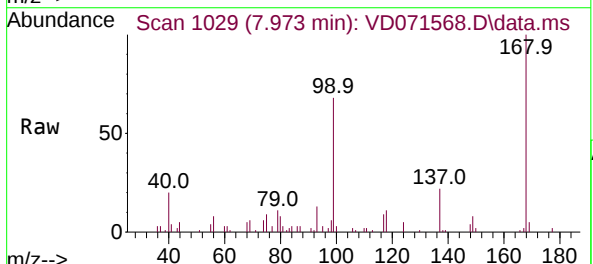
Instrument :
MSVOA_D
ClientSampleId :

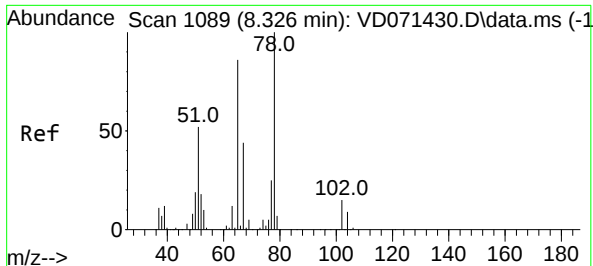
Tgt Ion: 43 Resp: 274
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#31
Cyclohexane
Concen: 2.659 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 56 Resp: 2079
Ion Ratio Lower Upper
56 100
69 53.5 25.9 38.9#
84 19.6 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 62.997 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

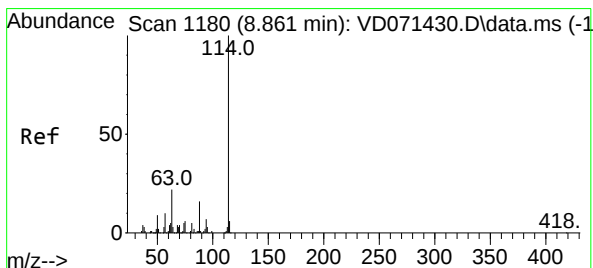
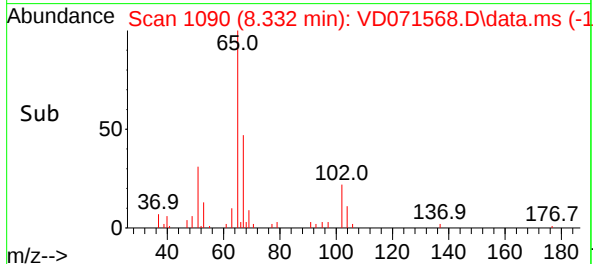
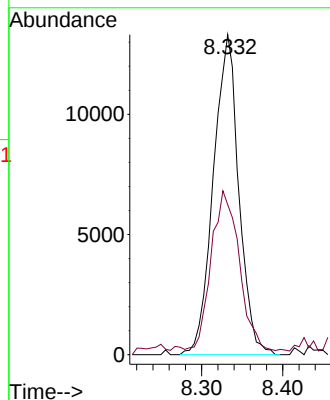
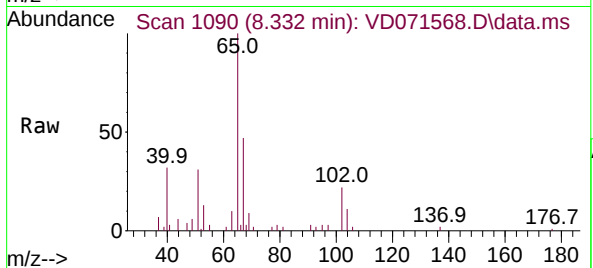
ClientSampleId :

Tgt Ion: 65 Resp: 28991

Ion Ratio Lower Upper

65 100

67 56.8 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: VD071568.D

Acq: 03 Jan 2022 16:17

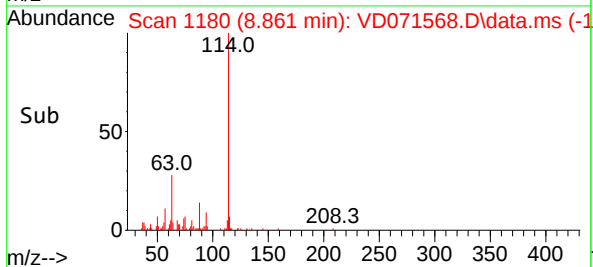
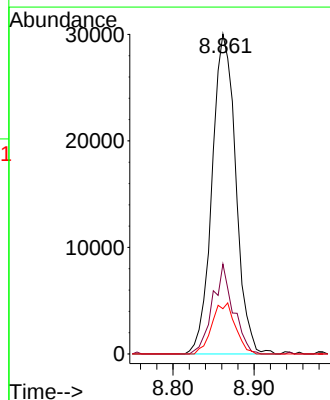
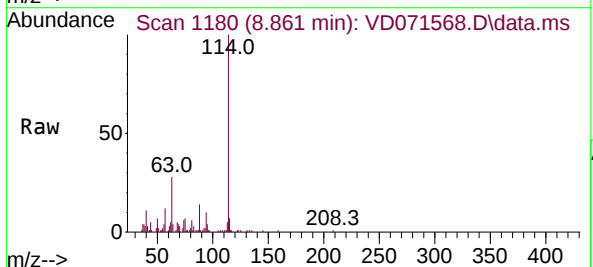
Tgt Ion: 114 Resp: 60936

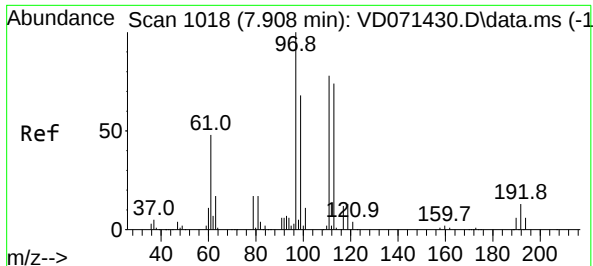
Ion Ratio Lower Upper

114 100

63 28.1 0.0 41.8

88 14.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 45.742 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

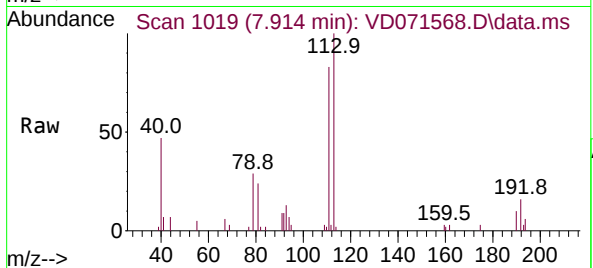
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Acq: 03 Jan 2022 16:17

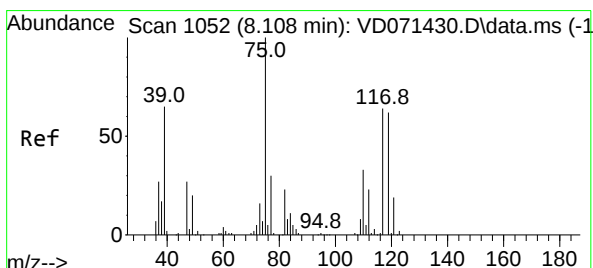
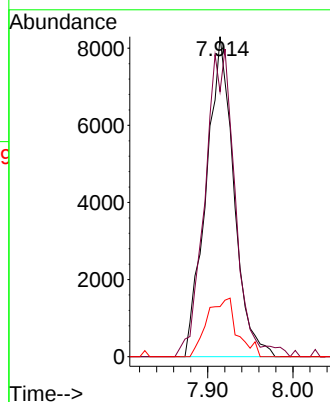
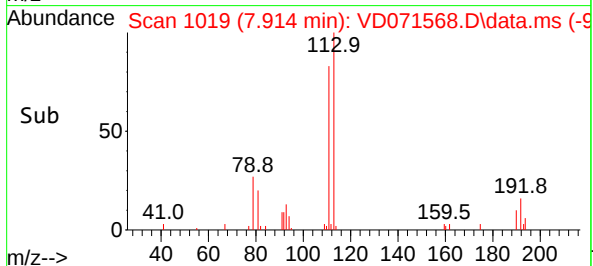
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MSVOA_D

ClientSampleId :



Tgt Ion:	113	Resp:	18733
Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.0	123.0
192	19.7	15.2	22.8



#36

1,1-Dichloropropene

Concen: 4.736 ug/l

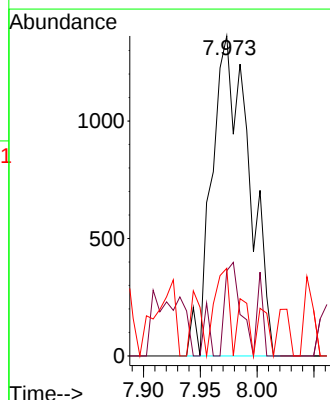
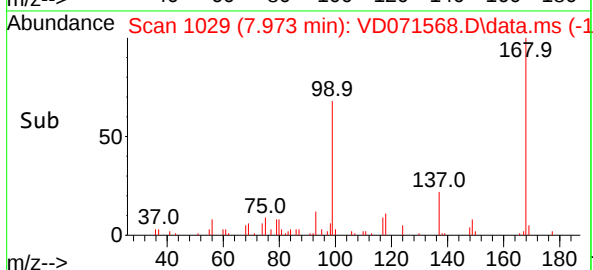
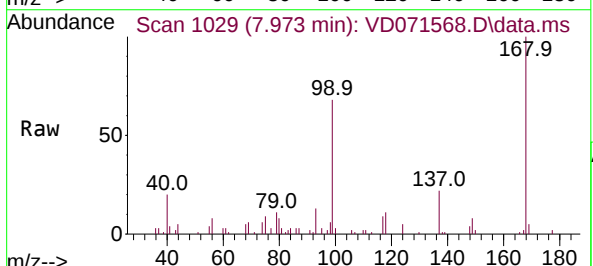
RT: 7.973 min Scan# 1029

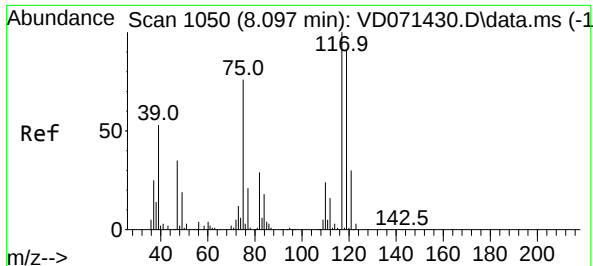
Delta R.T. -0.135 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Tgt Ion:	75	Resp:	3099
Ion	Ratio	Lower	Upper
75	100		
110	12.4	17.8	53.4#
77	10.6	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.822 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.130 min

Lab File: VD071568.D

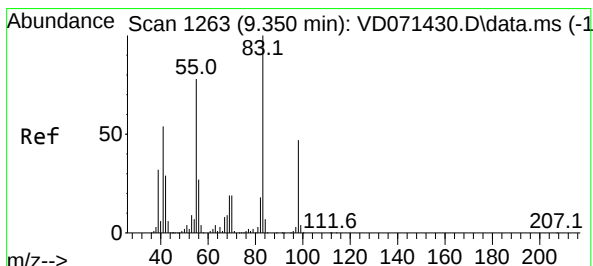
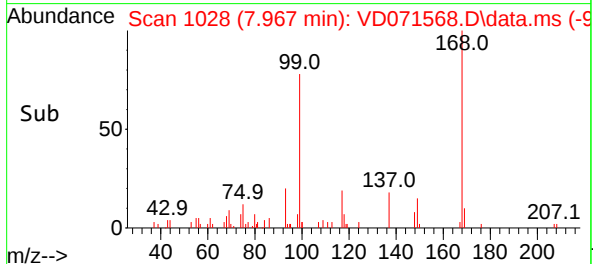
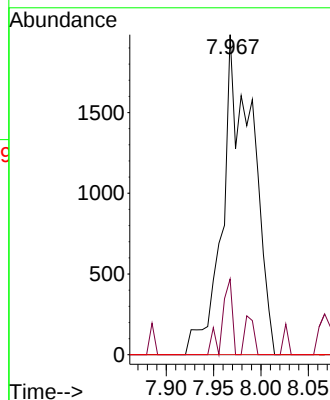
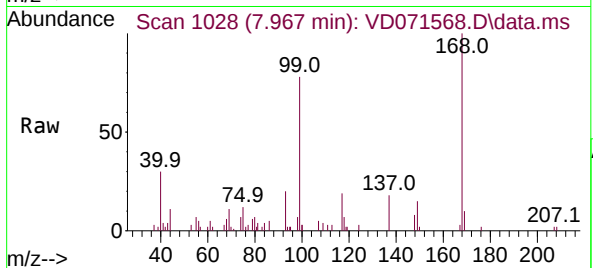
Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	117	Resp:	4404
Ion	Ratio	Lower	Upper
117	100		
119	23.7	75.8	113.6#
121	0.0	23.6	35.4#



#39

Methylcyclohexane

Concen: 3.062 ug/l

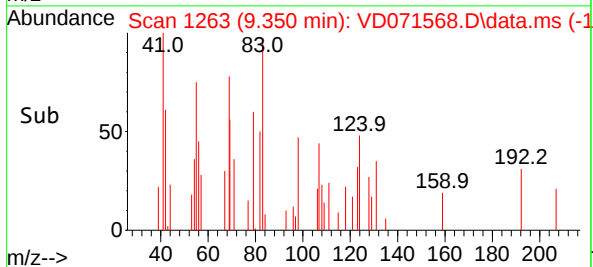
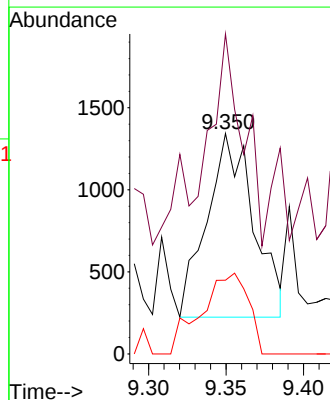
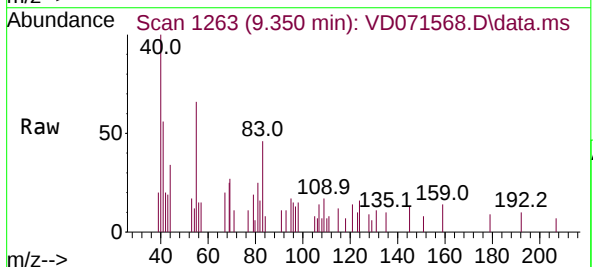
RT: 9.350 min Scan# 1263

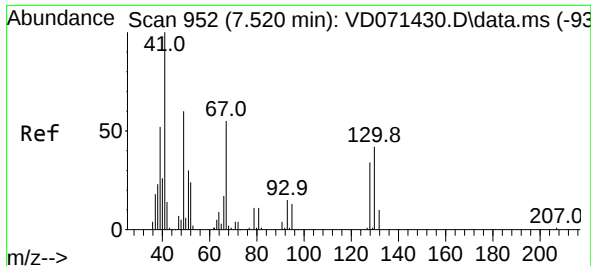
Delta R.T. 0.001 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

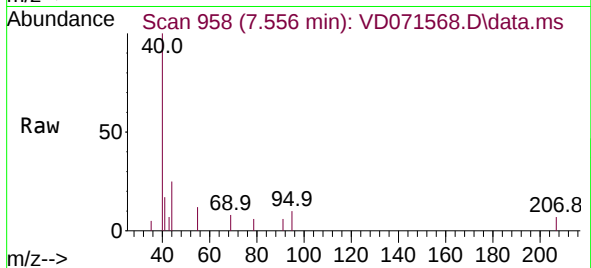
Tgt Ion:	83	Resp:	2345
Ion	Ratio	Lower	Upper
83	100		
55	65.6	65.8	98.8#
98	40.1	38.7	58.1



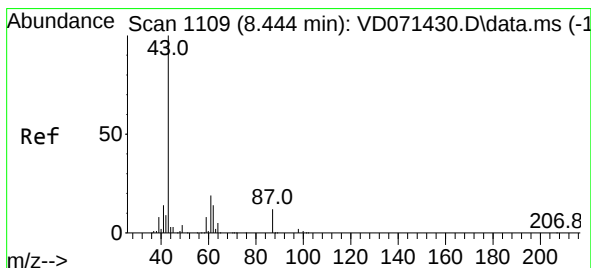
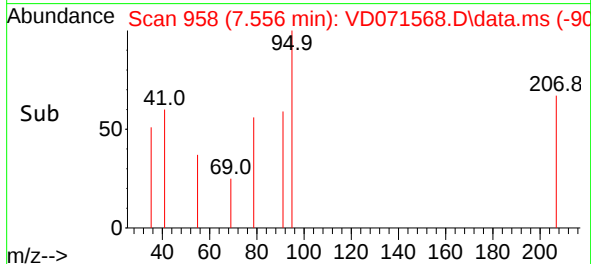
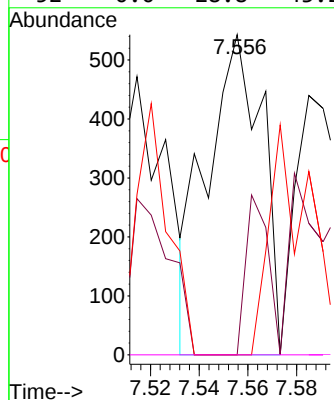


#41
Methacrylonitrile
Concen: 4.771 ug/l
RT: 7.556 min Scan# 91
Delta R.T. 0.030 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :

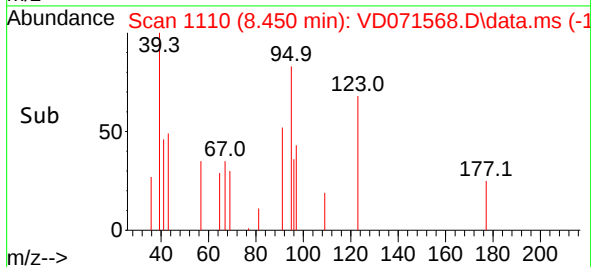
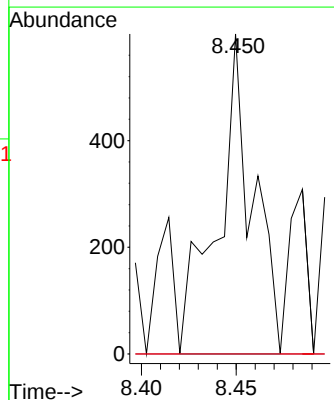
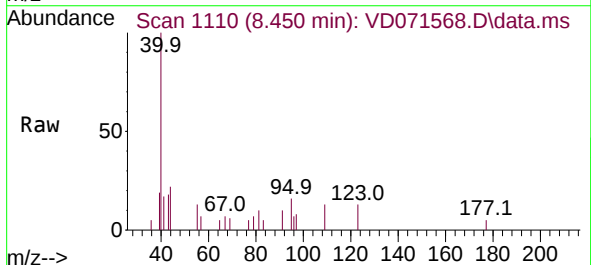


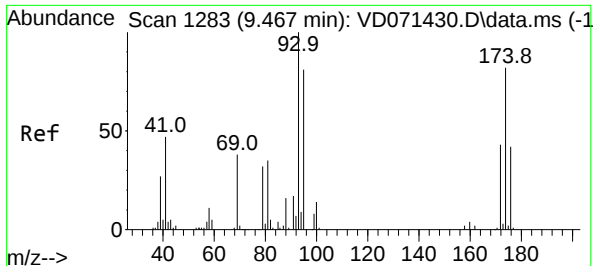
Tgt Ion:	41	Resp:	856
Ion	Ratio	Lower	Upper
41	100		
39	20.1	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 1.298 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion:	43	Resp:	778
Ion	Ratio	Lower	Upper
43	100		
61	0.0	28.2	42.4#
87	0.0	10.7	16.1#

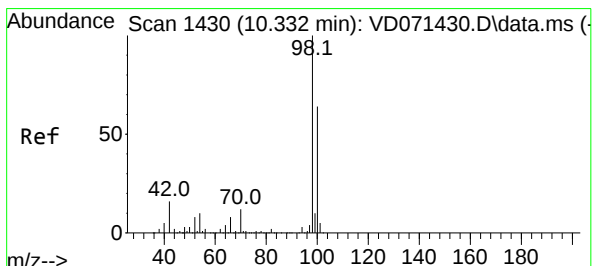
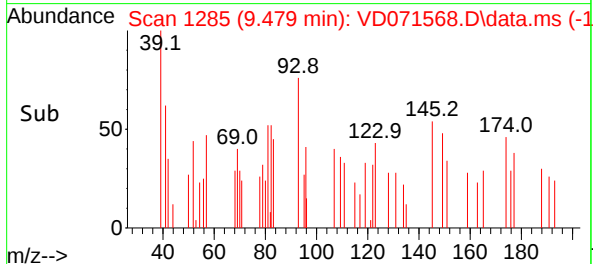
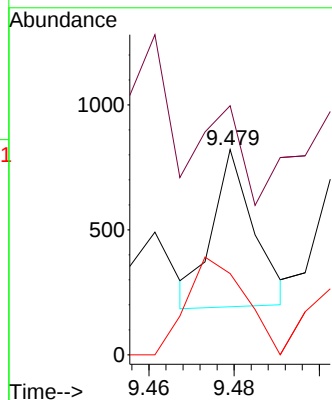
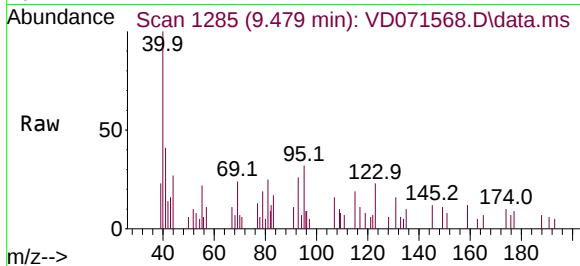




#46
Dibromomethane
Concen: 1.685 ug/l
RT: 9.479 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

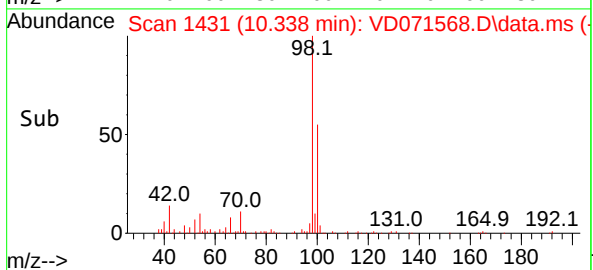
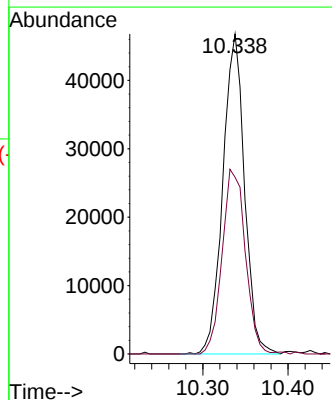
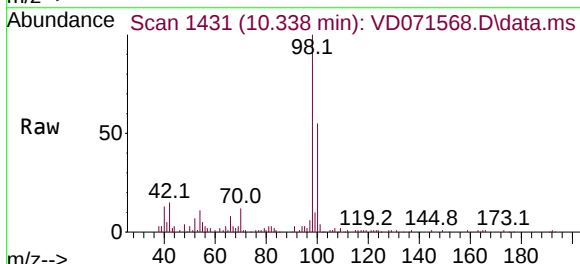
Instrument :
MSVOA_D
ClientSampleId :

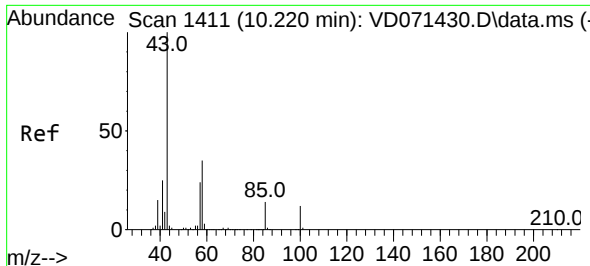
Tgt Ion: 93 Resp: 425
Ion Ratio Lower Upper
93 100
95 160.0 66.1 99.1#
174 87.3 78.6 117.8



#50
Toluene-d8
Concen: 53.436 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 98 Resp: 82700
Ion Ratio Lower Upper
98 100
100 61.9 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 3.269 ug/l

RT: 10.226 min Scan# 1411

Delta R.T. 0.006 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

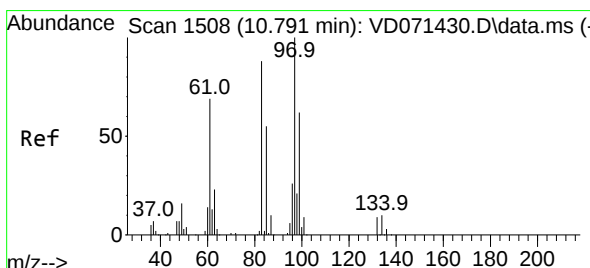
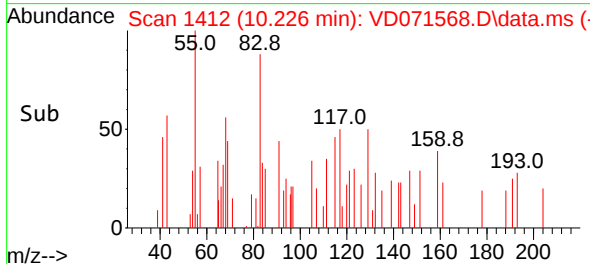
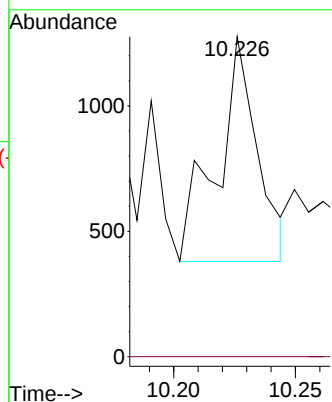
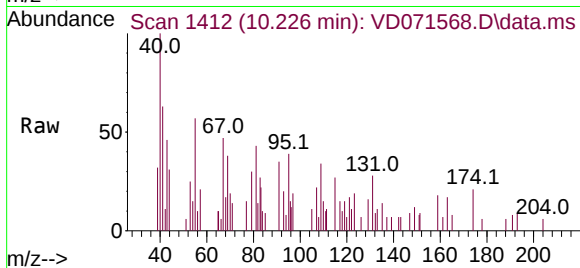
ClientSampleId :

Tgt Ion: 43 Resp: 1031

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#55

1,1,2-Trichloroethane

Concen: 3.940 ug/l

RT: 10.791 min Scan# 1508

Delta R.T. -0.000 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Tgt Ion: 97 Resp: 1261

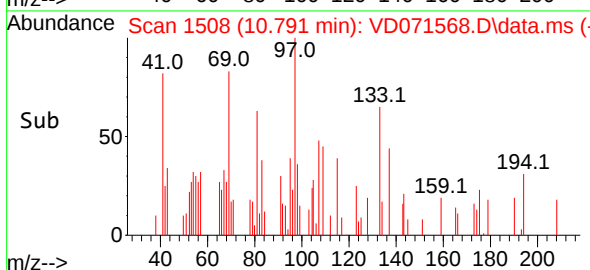
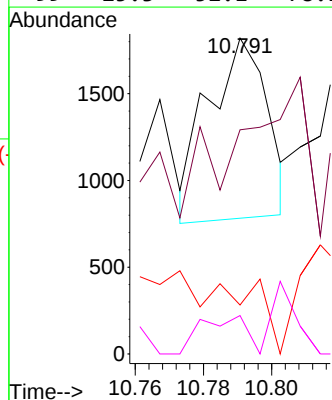
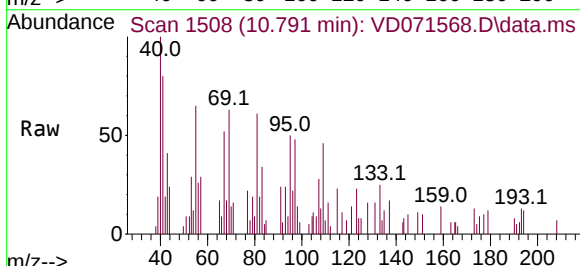
Ion Ratio Lower Upper

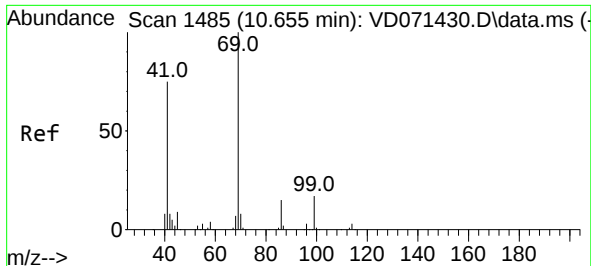
97 100

83 57.8 65.2 97.8#

85 32.1 43.4 65.0#

99 25.3 52.1 78.1#

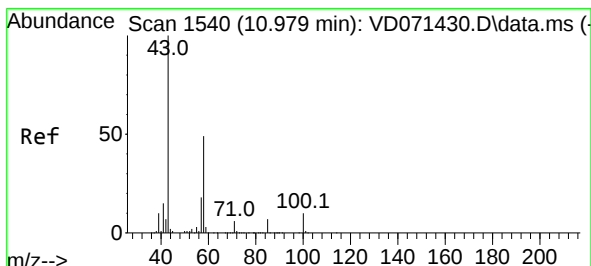
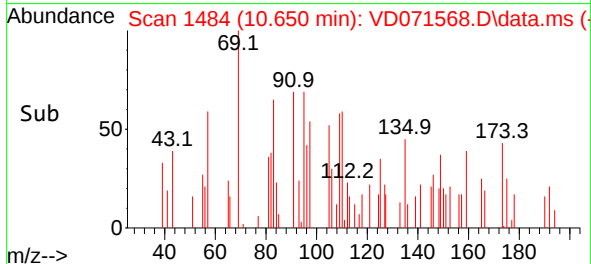
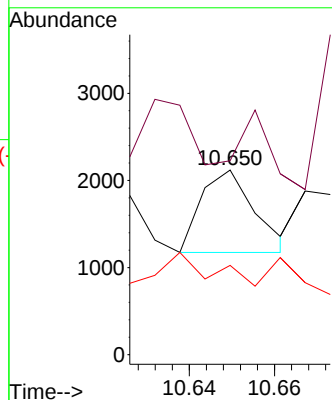
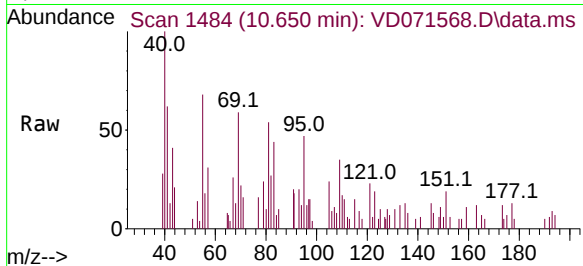




#56
Ethyl methacrylate
Concen: 1.947 ug/l
RT: 10.650 min Scan# 1485
Delta R.T. -0.005 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

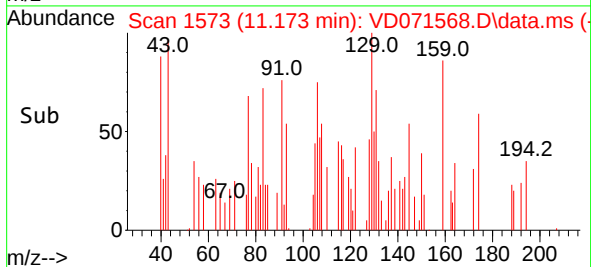
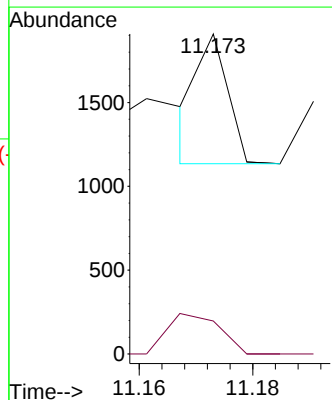
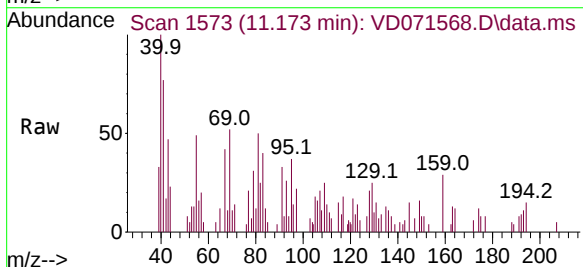
Instrument :
MSVOA_D
ClientSampleId :

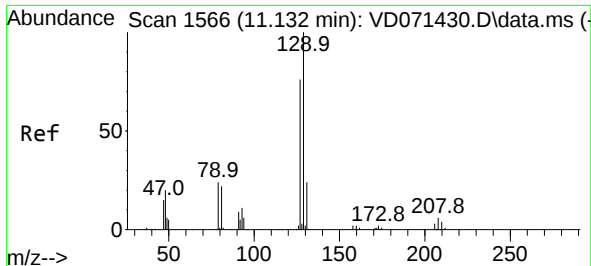
Tgt Ion: 69 Resp: 820
Ion Ratio Lower Upper
69 100
41 55.7 50.2 75.2
39 38.7 19.8 29.8#



#59
2-Hexanone
Concen: 1.243 ug/l
RT: 11.173 min Scan# 1573
Delta R.T. 0.194 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 43 Resp: 277
Ion Ratio Lower Upper
43 100
58 56.0 28.7 86.1

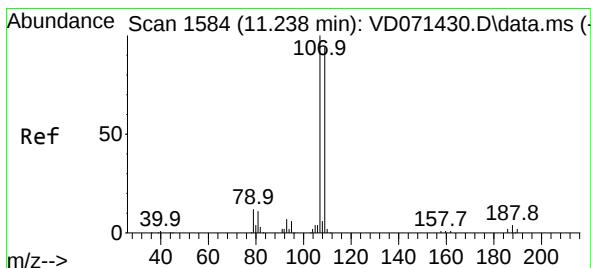
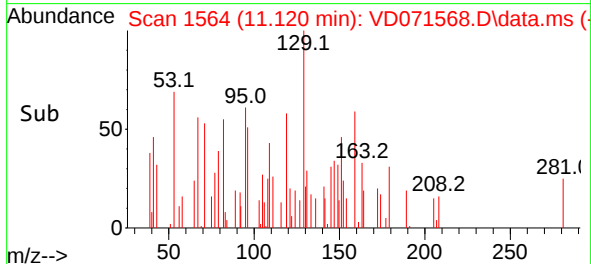
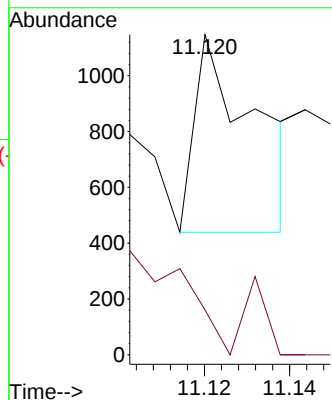
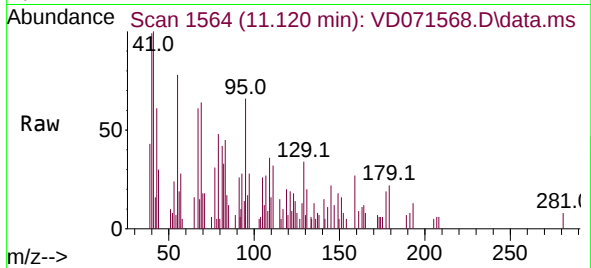




#60
Dibromochloromethane
Concen: 1.703 ug/l
RT: 11.120 min Scan# 1566
Delta R.T. -0.012 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

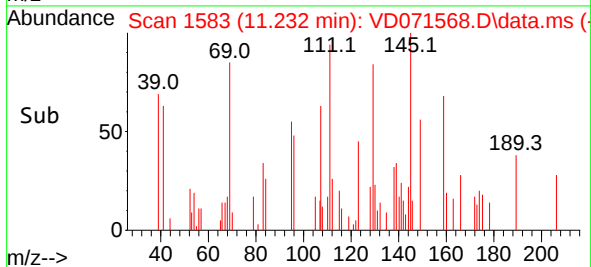
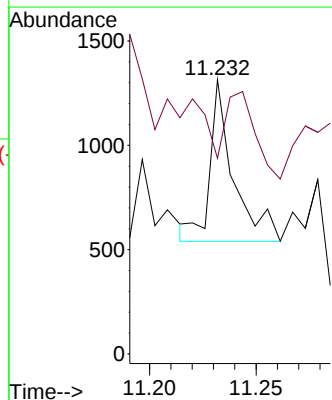
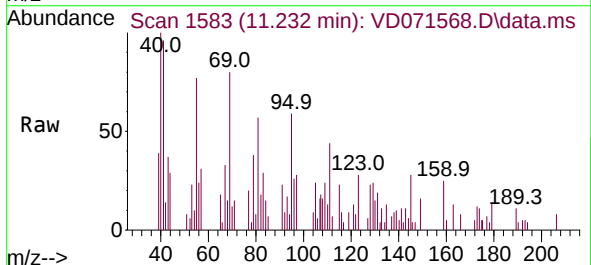
Instrument :
MSVOA_D
ClientSampleId :

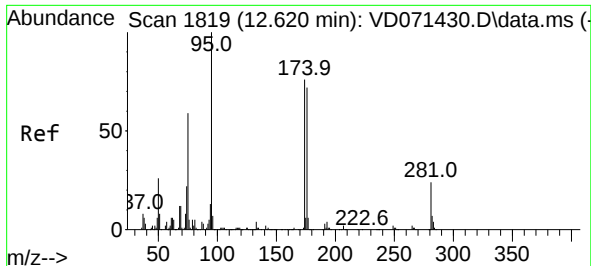
Tgt Ion:129 Resp: 685
Ion Ratio Lower Upper
129 100
127 68.3 38.9 116.6



#61
1,2-Dibromoethane
Concen: 1.855 ug/l
RT: 11.232 min Scan# 1583
Delta R.T. -0.006 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion:107 Resp: 588
Ion Ratio Lower Upper
107 100
109 66.0 74.6 112.0#

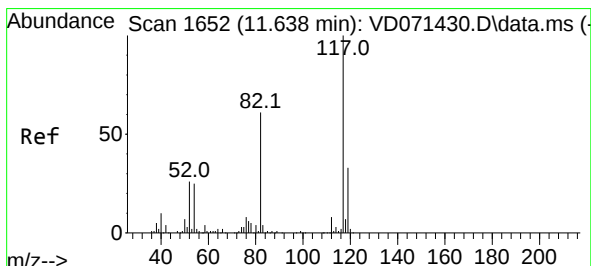
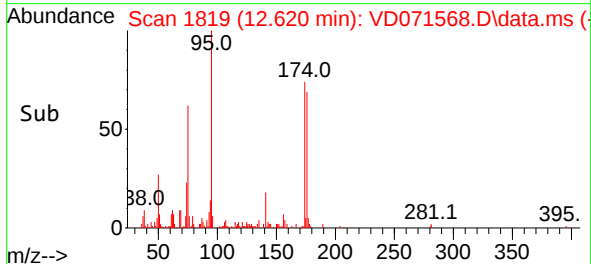
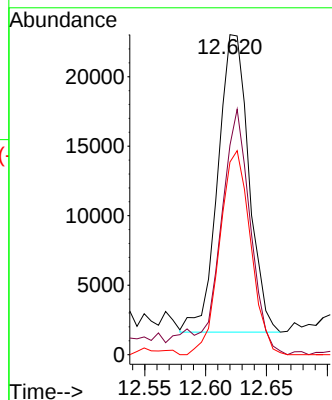
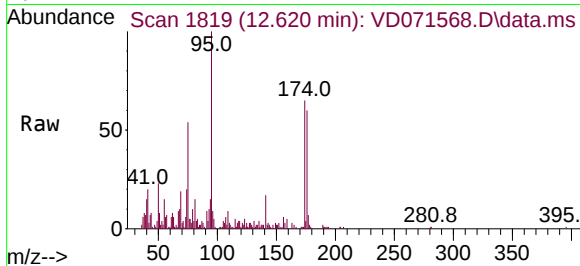




#62
4-Bromofluorobenzene
Concen: 69.004 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

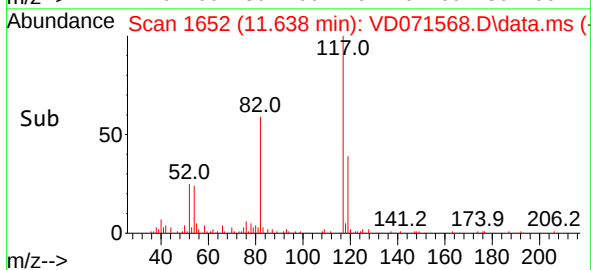
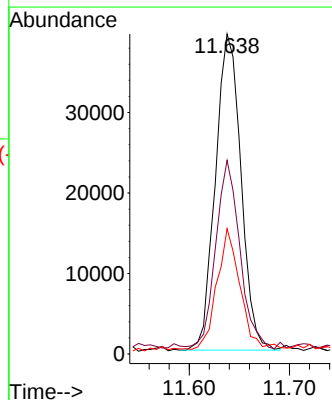
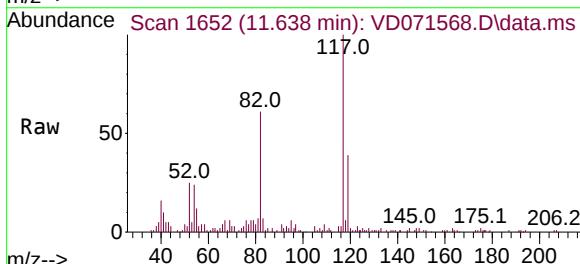
Instrument :
MSVOA_D
ClientSampleId :

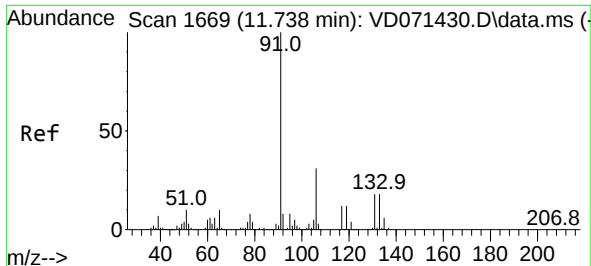
Tgt Ion: 95 Resp: 37949
Ion Ratio Lower Upper
95 100
174 82.7 0.0 159.4
176 68.0 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 117 Resp: 69618
Ion Ratio Lower Upper
117 100
82 58.8 44.7 67.1
119 38.1 26.2 39.4





#67

Ethyl Benzene

Concen: 1.209 ug/l

RT: 11.732 min Scan# 1668

Delta R.T. -0.006 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

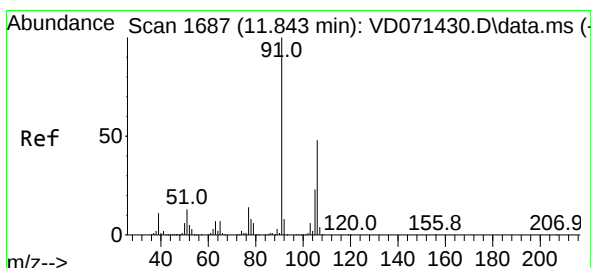
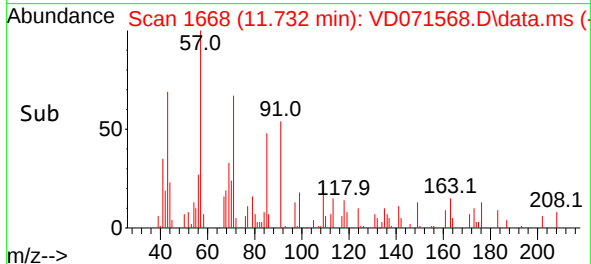
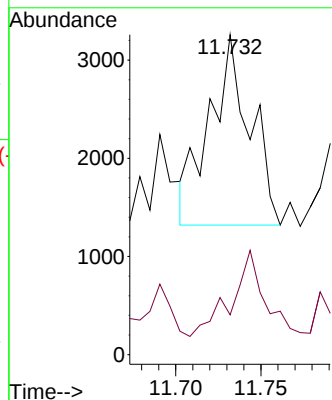
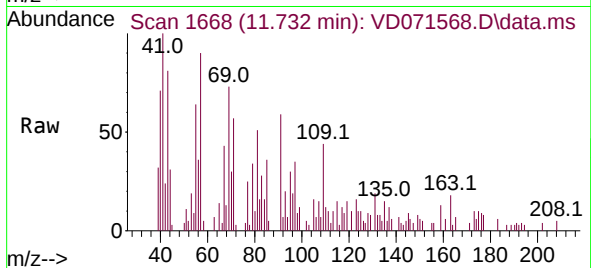
ClientSampleId :

Tgt Ion: 91 Resp: 3214

Ion Ratio Lower Upper

91 100

106 8.6 24.6 36.8#



#68

m/p-Xylenes

Concen: 2.313 ug/l

RT: 11.844 min Scan# 1687

Delta R.T. 0.001 min

Lab File: VD071568.D

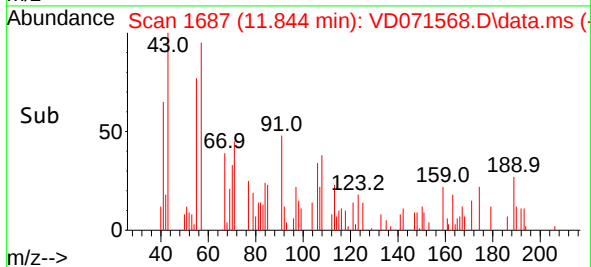
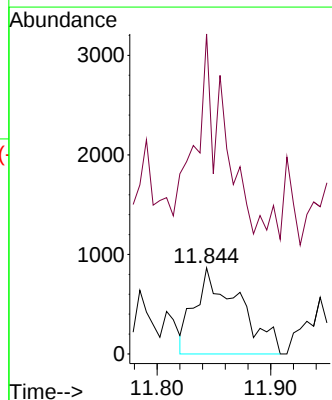
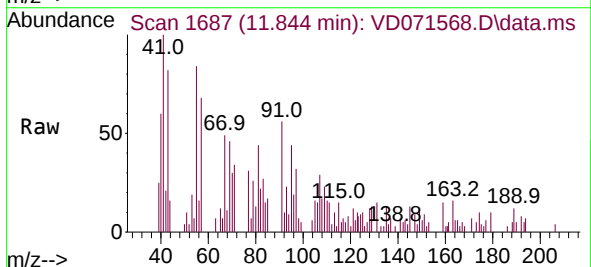
Acq: 03 Jan 2022 16:17

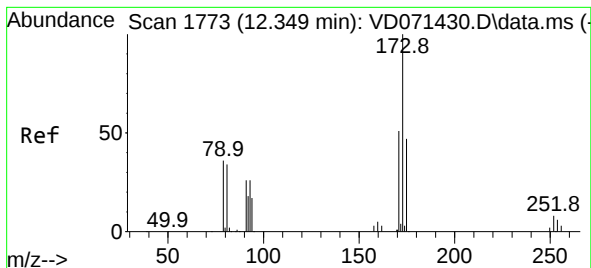
Tgt Ion:106 Resp: 2335

Ion Ratio Lower Upper

106 100

91 144.5 160.1 240.1#





#71

Bromoform

Concen: 1.470 ug/l

RT: 12.349 min Scan# 1773

Delta R.T. 0.000 min

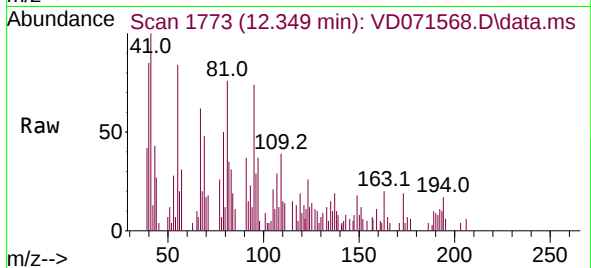
Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

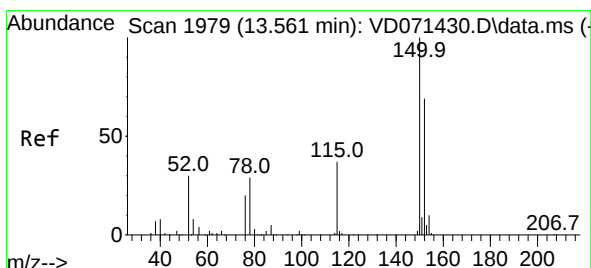
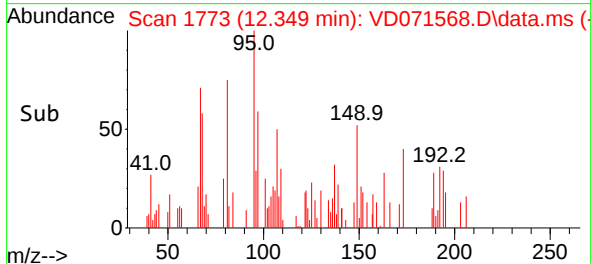
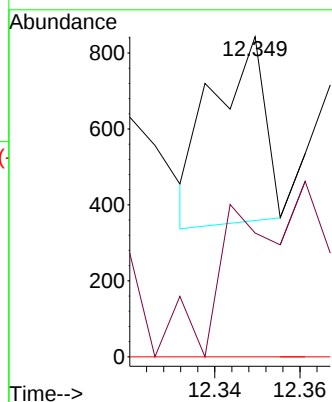
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	173	Resp:	415
Ion Ratio	Lower	Upper	
173	100		
175	100.5	24.1	72.2#
254	0.0	0.1	0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

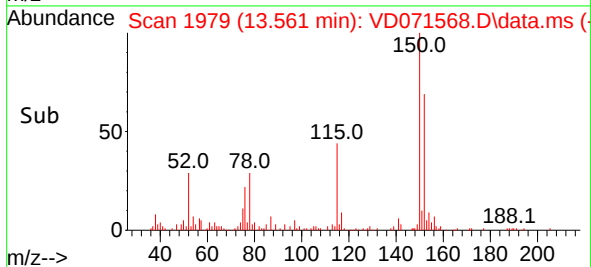
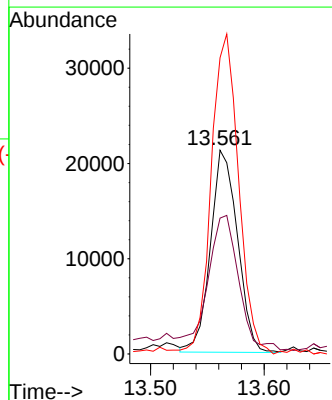
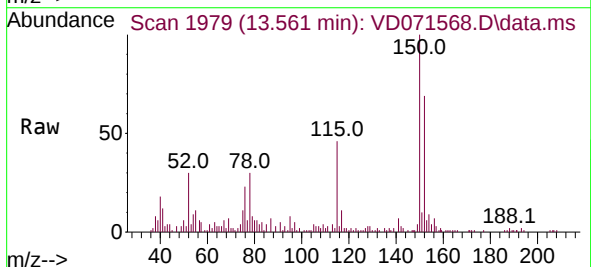
RT: 13.561 min Scan# 1979

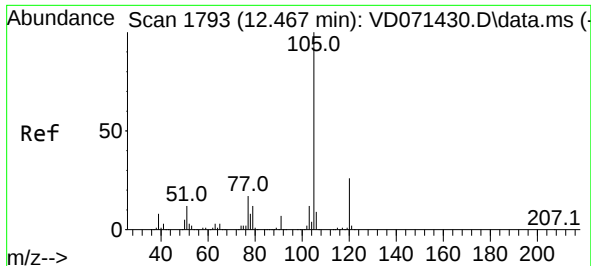
Delta R.T. 0.000 min

Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

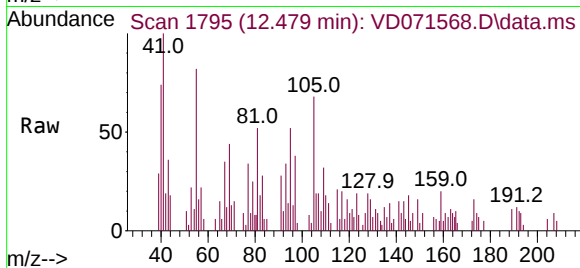
Tgt Ion:	152	Resp:	35095
Ion Ratio	Lower	Upper	
152	100		
115	76.7	29.8	89.3
150	160.4	0.0	349.2



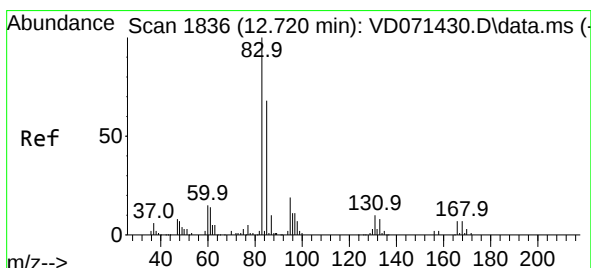
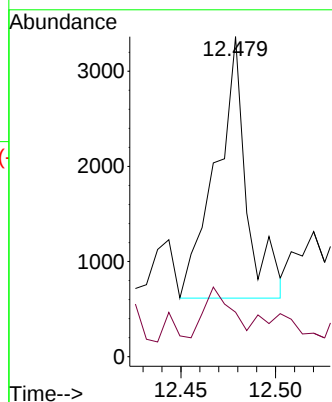
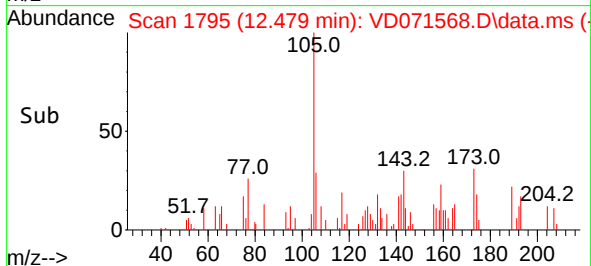


#73
Isopropylbenzene
Concen: 1.147 ug/l
RT: 12.479 min Scan# 1793
Delta R.T. 0.012 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

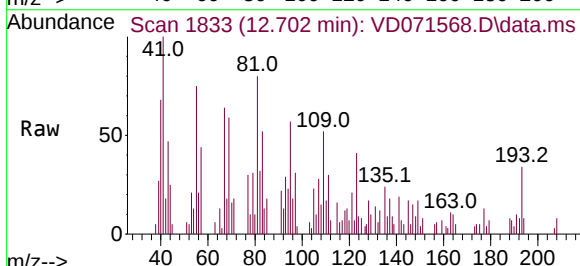
Instrument :
MSVOA_D
ClientSampleId :



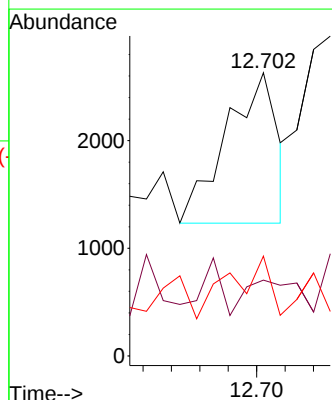
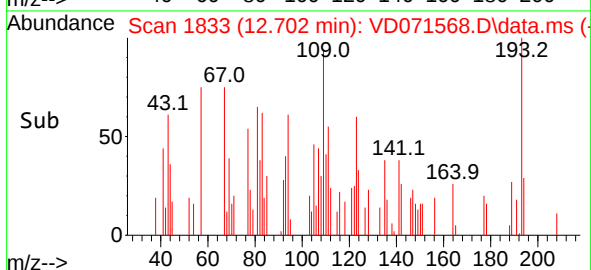
Tgt Ion:105 Resp: 3103
Ion Ratio Lower Upper
105 100
120 16.9 13.2 39.5

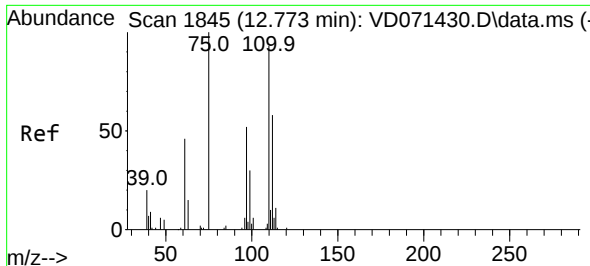


#75
1,1,2,2-Tetrachloroethane
Concen: 3.592 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17



Tgt Ion: 83 Resp: 1757
Ion Ratio Lower Upper
83 100
131 26.6 4.9 14.7#
85 35.7 32.0 96.2

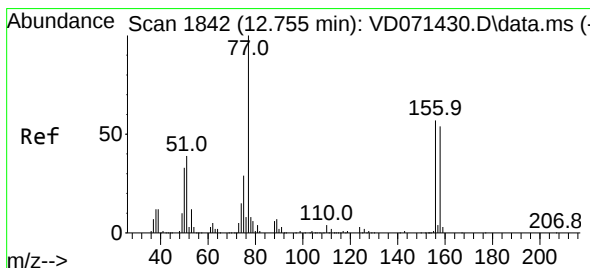
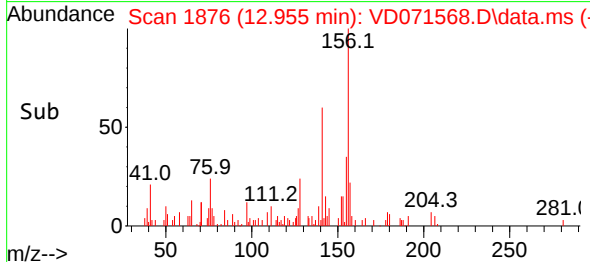
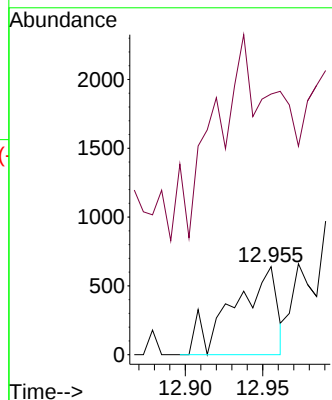
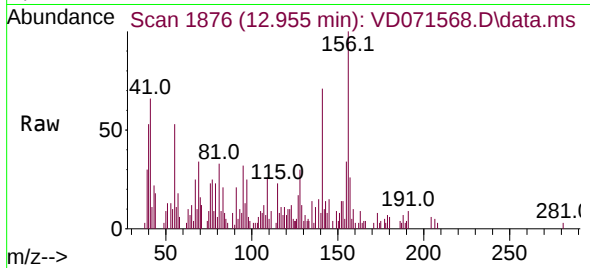




#76
1,2,3-Trichloropropane
Concen: 2.957 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.182 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

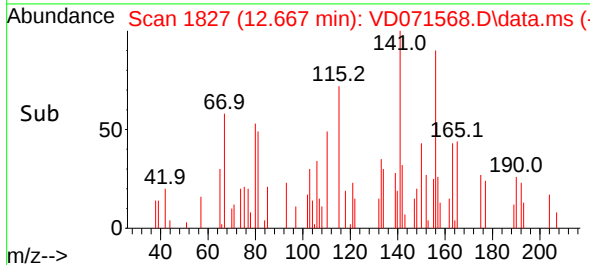
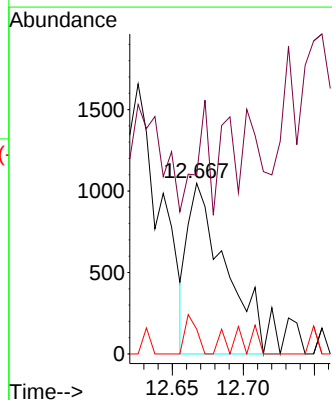
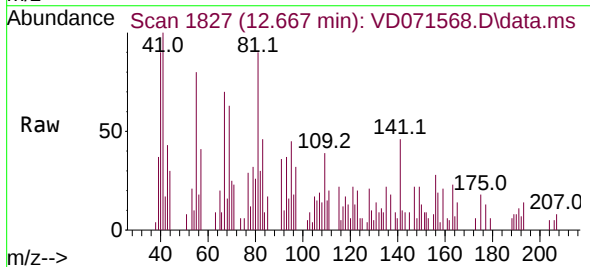
Instrument :
MSVOA_D
ClientSampleId :

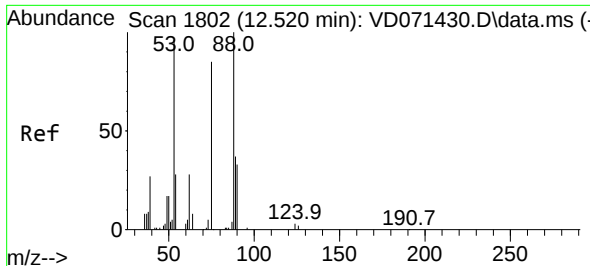
Tgt Ion: 75 Resp: 1233
Ion Ratio Lower Upper
75 100
77 238.7 158.4 475.3



#77
Bromobenzene
Concen: 3.363 ug/l
RT: 12.667 min Scan# 1827
Delta R.T. -0.082 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 156 Resp: 2025
Ion Ratio Lower Upper
156 100
77 21.0 96.6 289.8#
158 6.9 49.1 147.4#

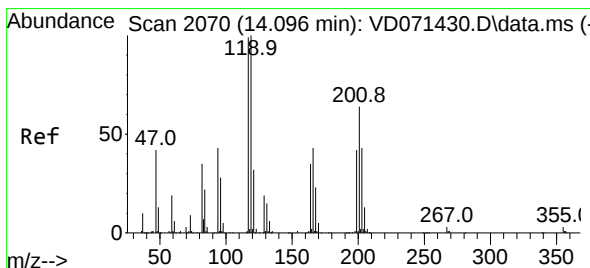
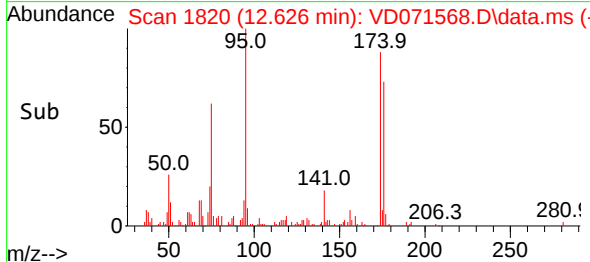
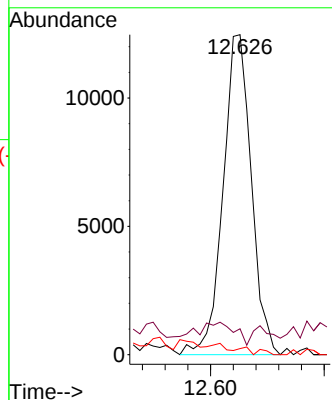
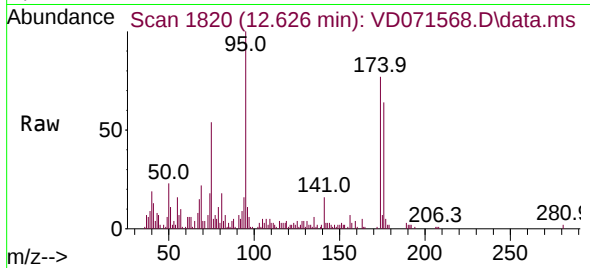




#81
trans-1,4-Dichloro-2-butene
Concen: 145.806 ug/l
RT: 12.626 min Scan# 11
Delta R.T. 0.106 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

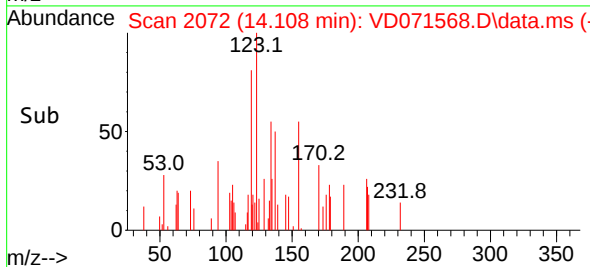
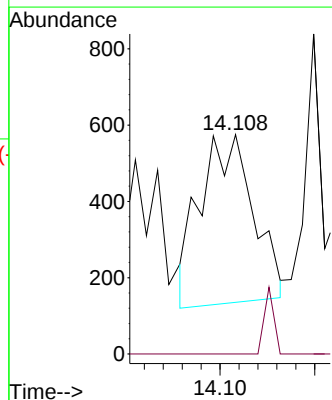
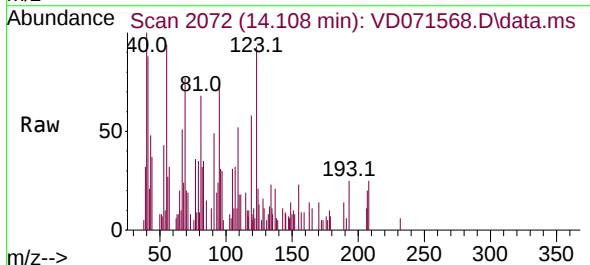
Instrument :
MSVOA_D
ClientSampleId :

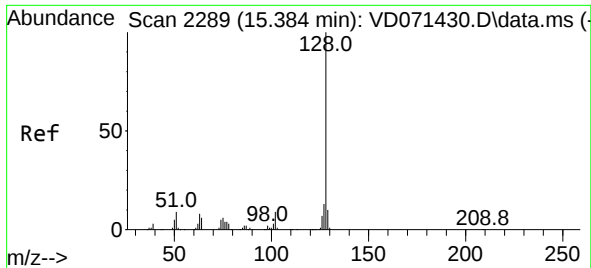
Tgt Ion: 75 Resp: 21518
Ion Ratio Lower Upper
75 100
53 4.1 62.6 94.0#
89 0.0 34.5 51.7#



#90
Hexachloroethane
Concen: 1.884 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.012 min
Lab File: VD071568.D
Acq: 03 Jan 2022 16:17

Tgt Ion: 117 Resp: 861
Ion Ratio Lower Upper
117 100
201 7.2 36.0 108.1#





#95

Naphthalene

Concen: 2.627 ug/l

RT: 15.379 min Scan# 21

Delta R.T. -0.000 min

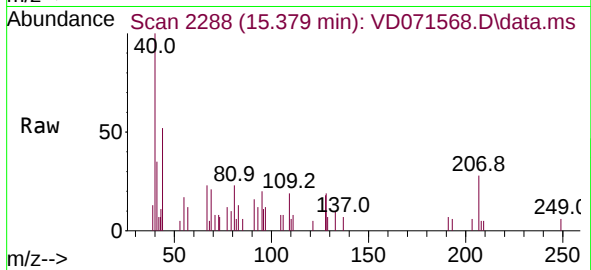
Lab File: VD071568.D

Acq: 03 Jan 2022 16:17

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	128	Resp:	3136
Ion	Ratio	Lower	Upper
128	100		
127	5.5	10.7	16.1#
129	10.4	8.7	13.1

