

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020821\
 Data File : VD068317.D
 Acq On : 08 Feb 2021 14:42
 Operator : VA/SY
 Sample : M1332-01
 Misc : 6.76G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 09 00:15:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D011921S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 19 13:19:08 2021
 Response via : Initial Calibration

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

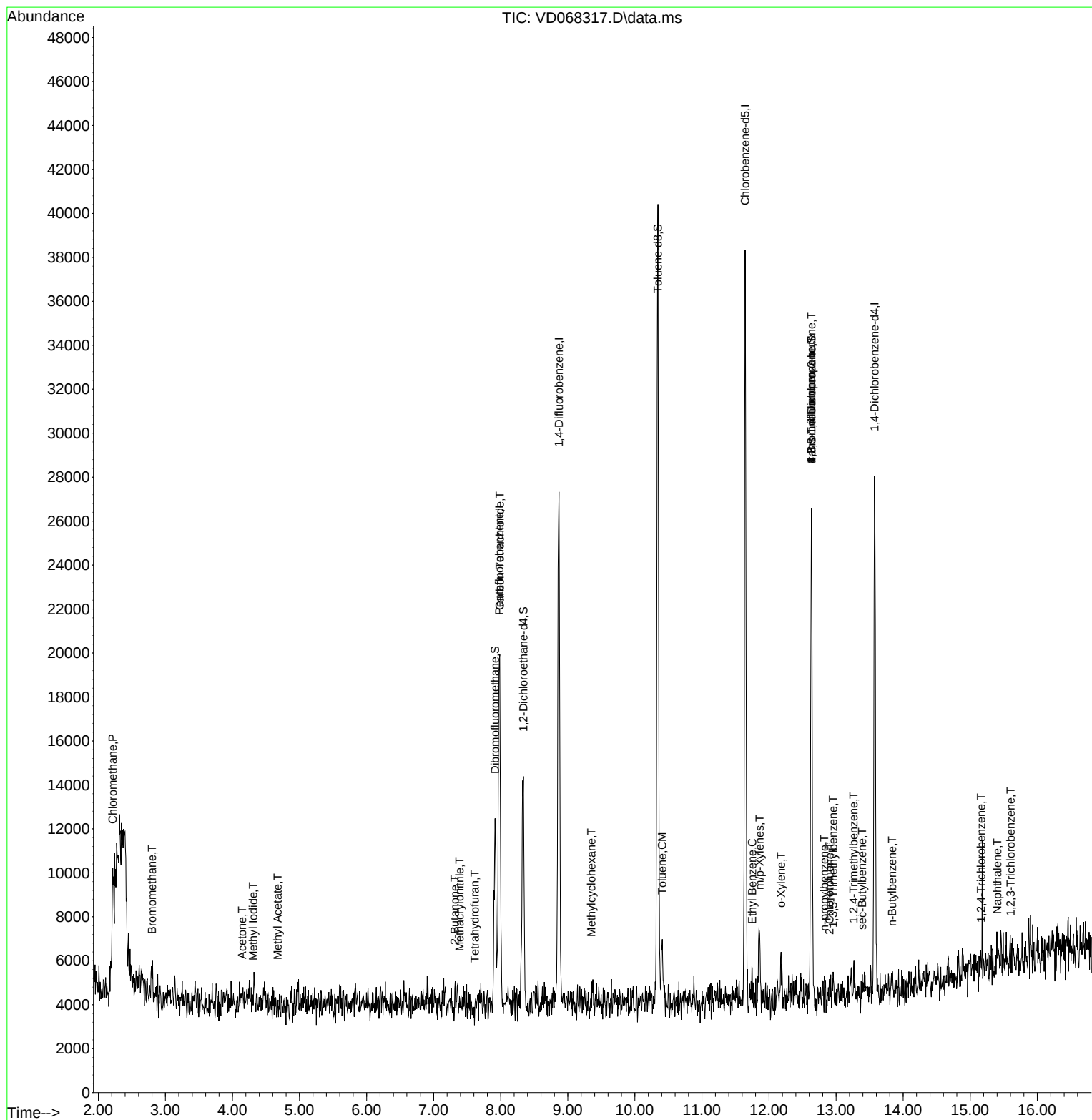
Internal Standards						
1) Pentafluorobenzene	7.979	168	13348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	22595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	18557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	7086	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.338	65	8510	66.65	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.30%			
35) Dibromofluoromethane	7.914	113	5481	43.88	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 87.76%			
50) Toluene-d8	10.344	98	24680	49.39	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.78%			
62) 4-Bromofluorobenzene	12.632	95	7379	41.01	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 82.02%			
Target Compounds					Qvalue	
3) Chloromethane	2.215	50	603	3.53	ug/l #	88
5) Bromomethane	2.803	94	882	6.77	ug/l #	69
10) Methyl Iodide	4.309	142	757	7.51	ug/l #	57
16) Acetone	4.144	43	623	27.33	ug/l #	44
18) Methyl Acetate	4.673	43	91	1.54	ug/l #	43
20) Methylene Chloride	4.956	84	301	Below Cal	#	14
25) 2-Butanone	7.314	43	60	1.75	ug/l #	43
29) Tetrahydrofuran	7.614	42	60	2.70	ug/l #	26
38) Carbon Tetrachloride	7.985	117	470	2.20	ug/l #	12
39) Methylcyclohexane	9.350	83	390	1.31	ug/l #	68
41) Methacrylonitrile	7.385	41	58	1.19	ug/l #	19
52) Toluene	10.408	92	1717	4.14	ug/l	99
67) Ethyl Benzene	11.749	91	1058	1.45	ug/l	91
68) m/p-Xylenes	11.861	106	1709	6.20	ug/l #	68
69) o-Xylene	12.179	106	551	2.15	ug/l	97
76) 1,2,3-Trichloropropane	12.632	75	3515	51.30	ug/l #	100
78) n-propylbenzene	12.826	91	818	1.17	ug/l #	51
79) 2-Chlorotoluene	12.902	91	406	1.04	ug/l	76
80) 1,3,5-Trimethylbenzene	12.955	105	665	1.35	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.632	75	3515	103.81	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.261	105	495	1.02	ug/l	79
85) sec-Butylbenzene	13.391	105	634	1.09	ug/l #	56
89) n-Butylbenzene	13.838	91	678	1.33	ug/l #	70
93) 1,2,4-Trichlorobenzene	15.161	180	267	1.87	ug/l #	58
95) Naphthalene	15.402	128	913	3.41	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.602	180	125	1.04	ug/l #	12

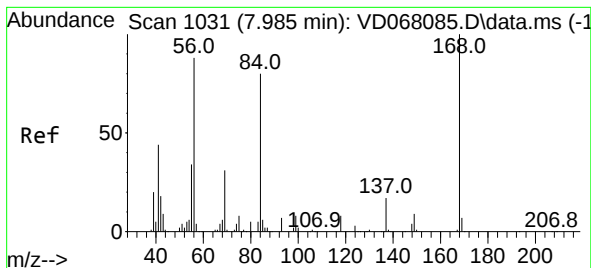
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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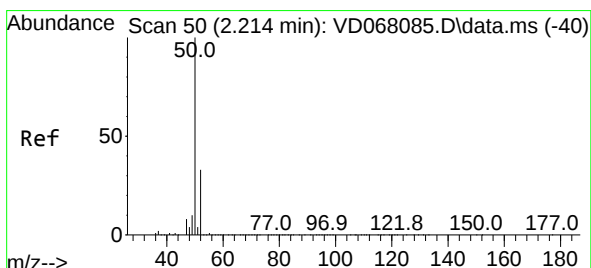
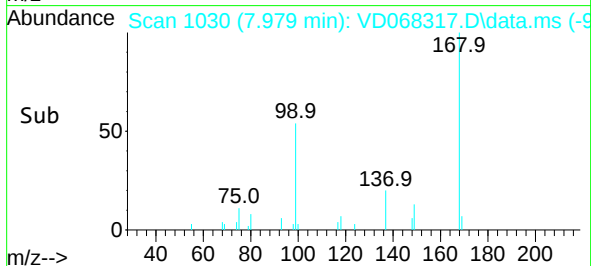
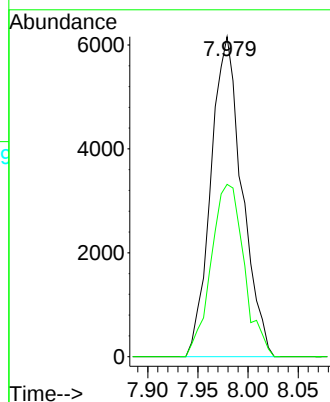
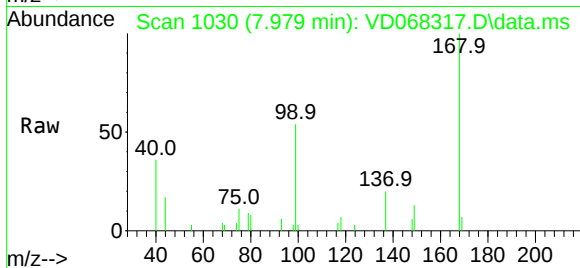




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

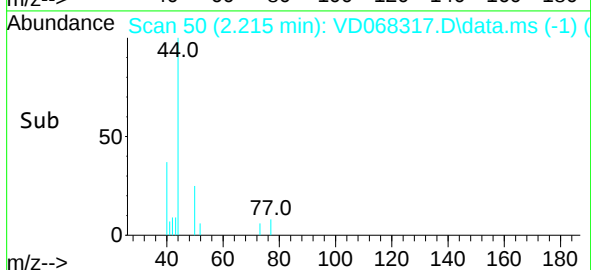
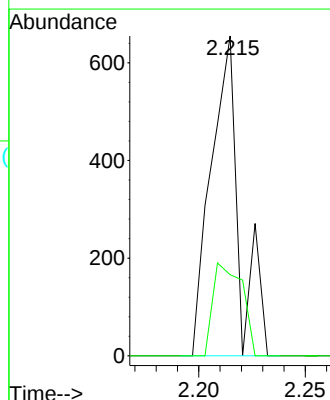
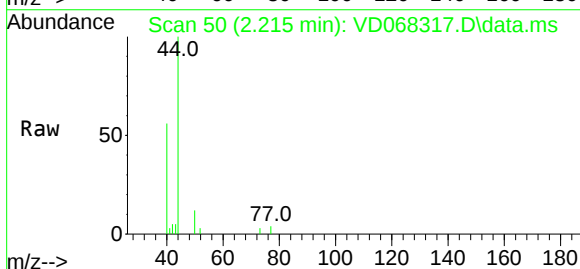
Instrument :
MSVOA_D
ClientSampled :

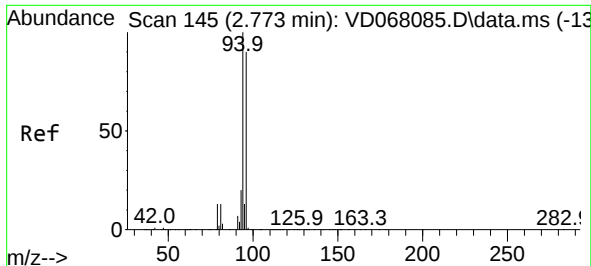
Tgt Ion:168 Resp: 13348
Ion Ratio Lower Upper
168 100
99 53.8 43.5 65.3



#3
Chloromethane
Concen: 3.53 ug/l
RT: 2.215 min Scan# 50
Delta R.T. 0.001 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 50 Resp: 603
Ion Ratio Lower Upper
50 100
52 25.3 25.4 38.2#

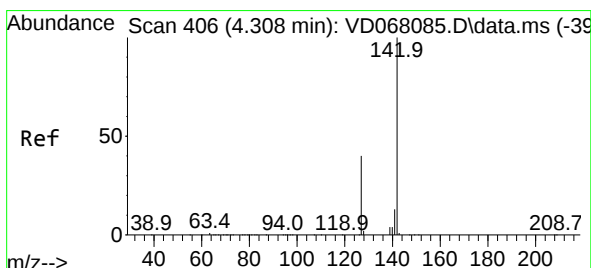
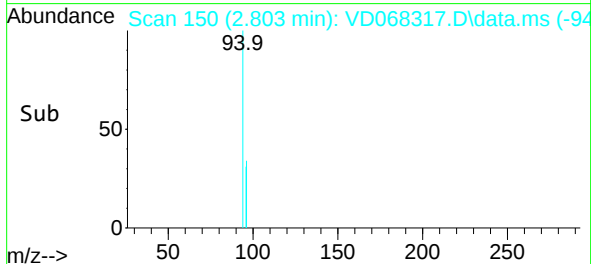
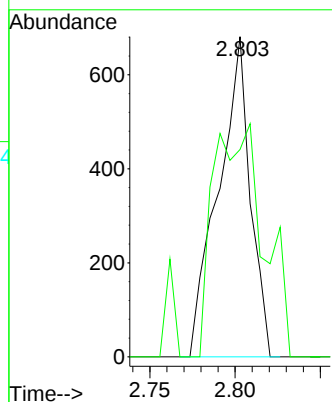
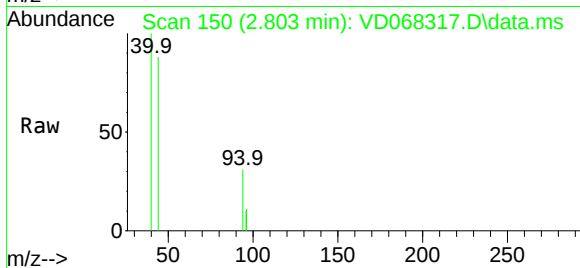




#5
Bromomethane
Concen: 6.77 ug/l
RT: 2.803 min Scan# 150
Delta R.T. 0.030 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

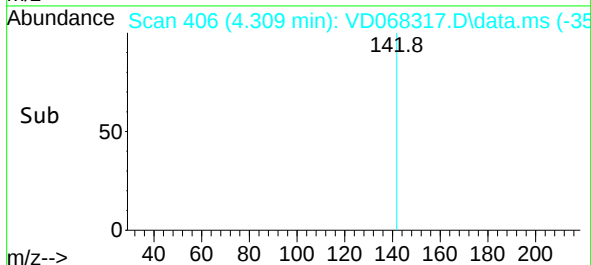
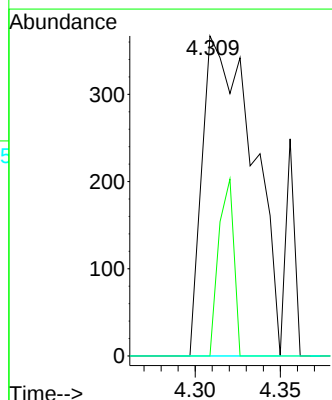
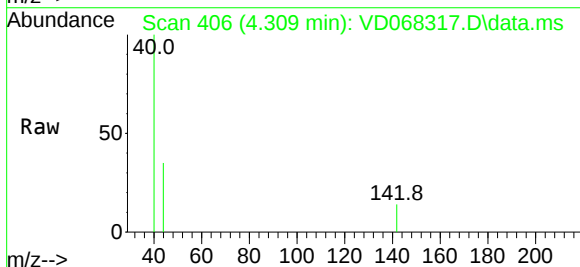
Instrument :
MSVOA_D
ClientSampled :

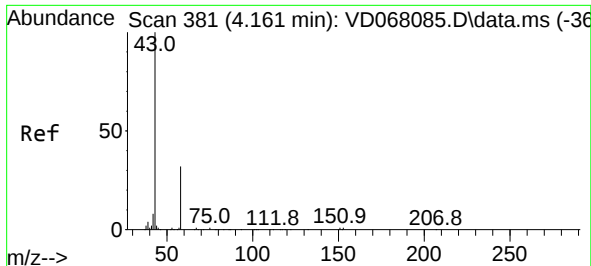
Tgt Ion: 94 Resp: 882
Ion Ratio Lower Upper
94 100
96 64.8 75.8 113.8#



#10
Methyl Iodide
Concen: 7.51 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.001 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 142 Resp: 757
Ion Ratio Lower Upper
142 100
127 16.6 37.9 56.9#
141 0.0 11.5 17.3#

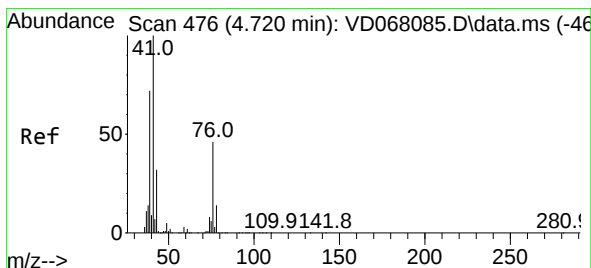
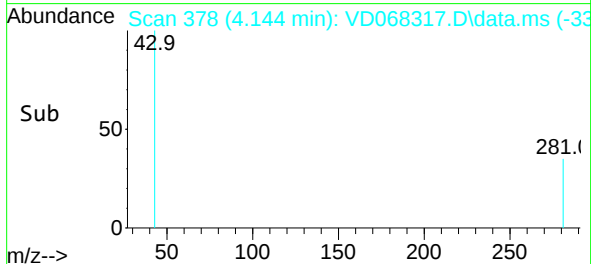
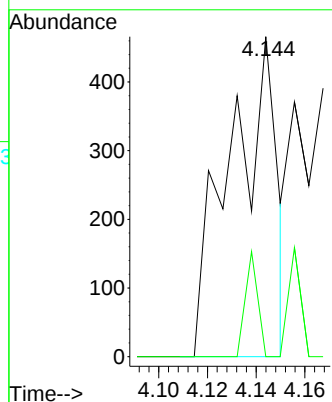
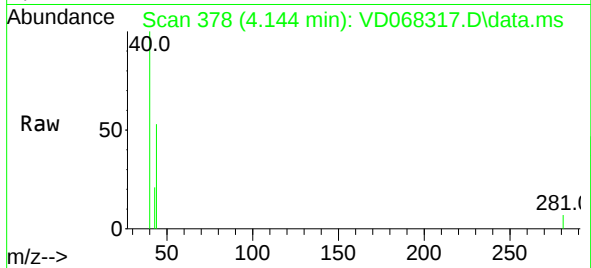




#16
Acetone
Concen: 27.33 ug/l
RT: 4.144 min Scan# 378
Delta R.T. -0.017 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

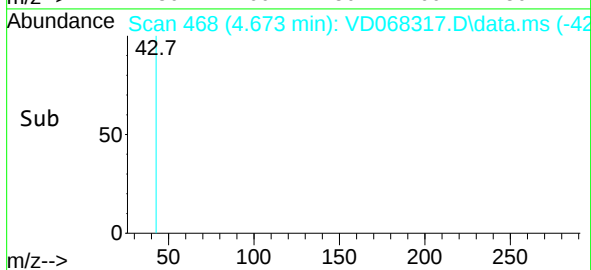
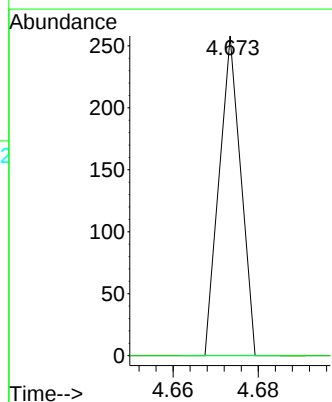
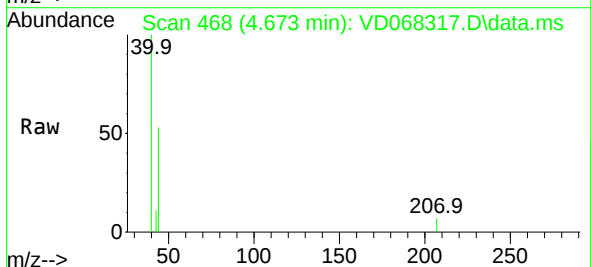
Instrument :
MSVOA_D
ClientSampled :

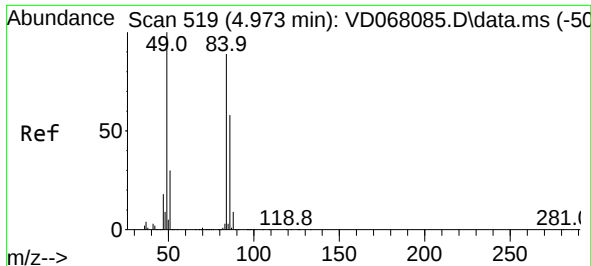
Tgt Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.4#



#18
Methyl Acetate
Concen: 1.54 ug/l
RT: 4.673 min Scan# 468
Delta R.T. -0.047 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 43 Resp: 91
Ion Ratio Lower Upper
43 100
74 0.0 25.4 38.0#

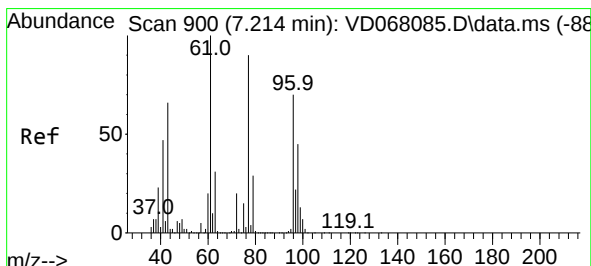
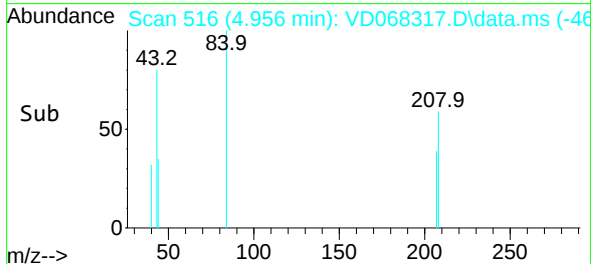
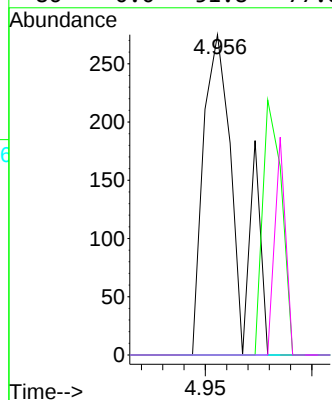
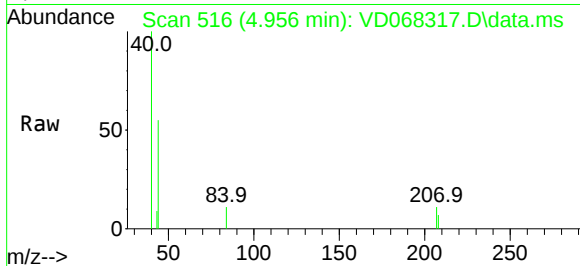




#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.017 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

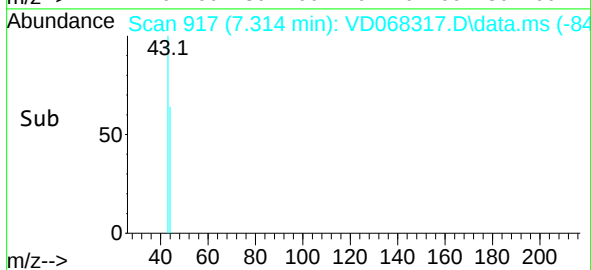
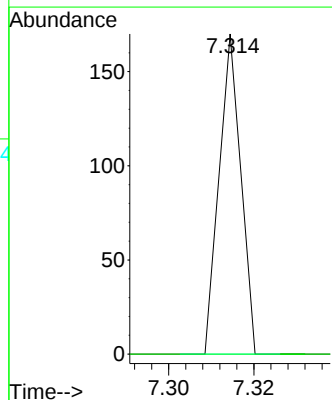
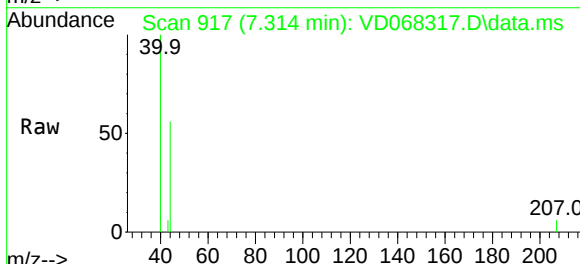
Instrument :
MSVOA_D
ClientSampleId :

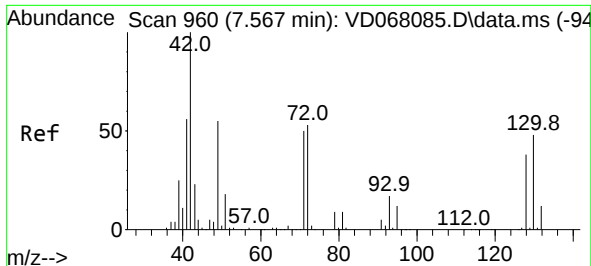
Tgt Ion:	84	Resp:	301
Ion	Ratio	Lower	Upper
84	100		
49	0.0	77.4	116.2#
51	0.0	26.1	39.1#
86	0.0	51.8	77.8#



#25
2-Butanone
Concen: 1.75 ug/l
RT: 7.314 min Scan# 917
Delta R.T. 0.100 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion:	43	Resp:	60
Ion	Ratio	Lower	Upper
43	100		
72	0.0	25.1	37.7#





#29

Tetrahydrofuran

Concen: 2.70 ug/l

RT: 7.614 min Scan# 968

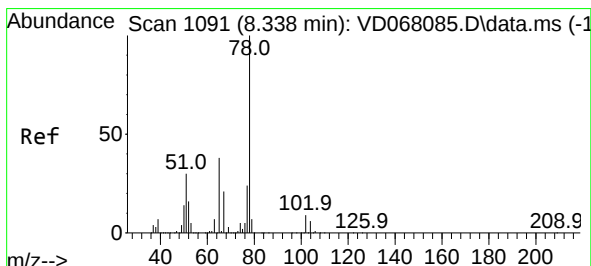
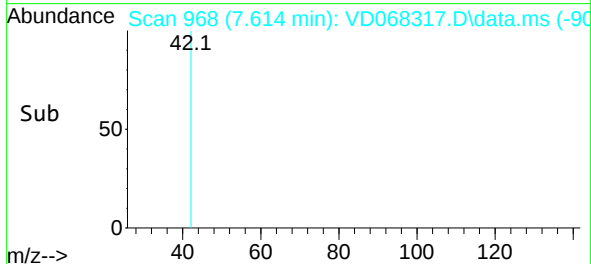
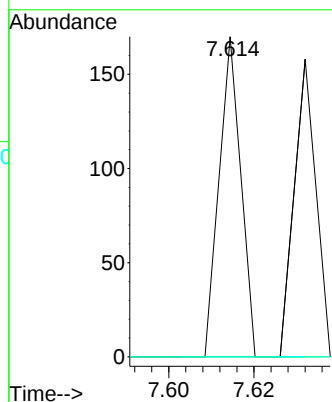
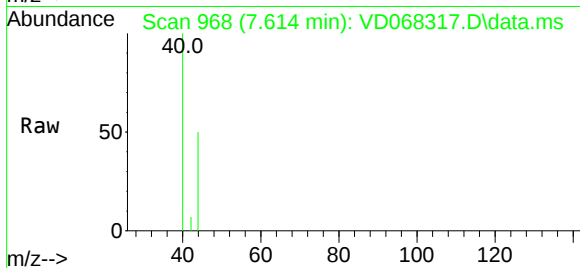
Delta R.T. 0.047 min

Lab File: VD068317.D

Acq: 08 Feb 2021 14:42

Tgt Ion: 42	Resp: 60
Ion Ratio	Lower Upper
42	100
72	0.0 43.4 65.0#
71	0.0 40.8 61.2#

Instrument :
MSVOA_D
ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 66.65 ug/l

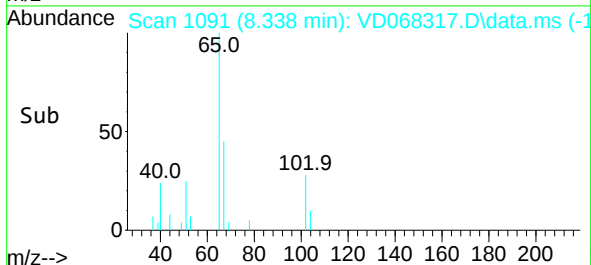
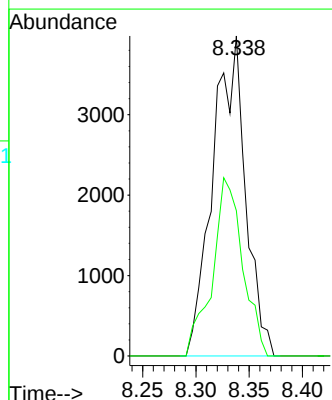
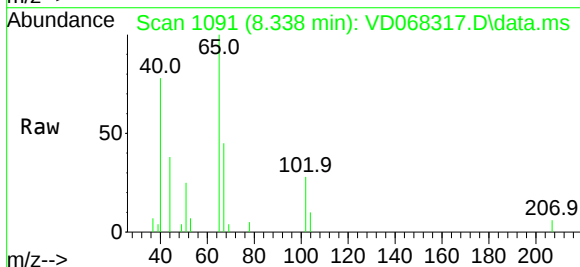
RT: 8.338 min Scan# 1091

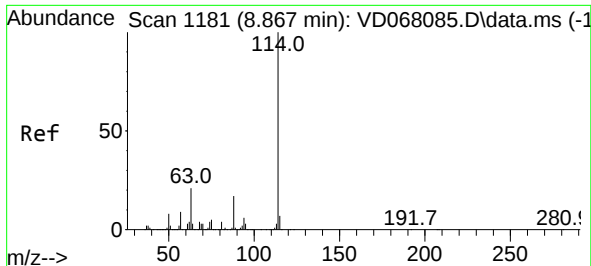
Delta R.T. 0.000 min

Lab File: VD068317.D

Acq: 08 Feb 2021 14:42

Tgt Ion: 65	Resp: 8510
Ion Ratio	Lower Upper
65	100
67	51.5 0.0 105.0

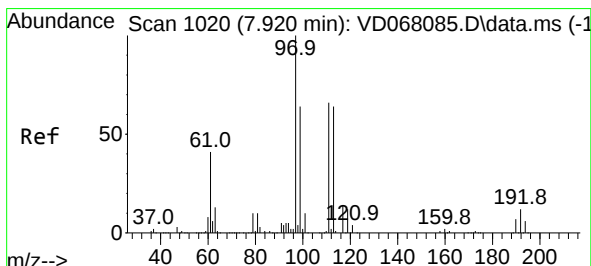
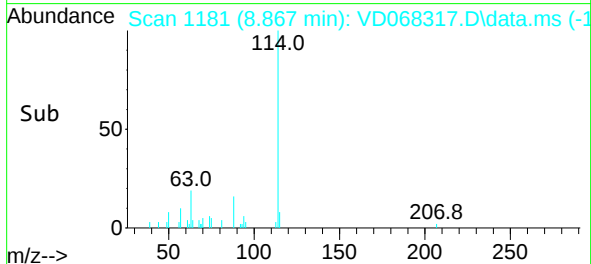
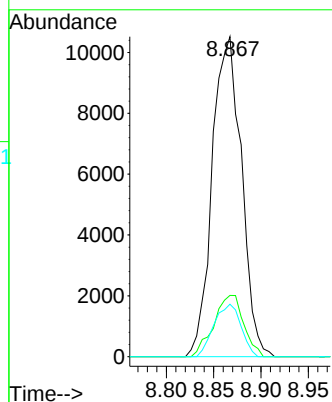
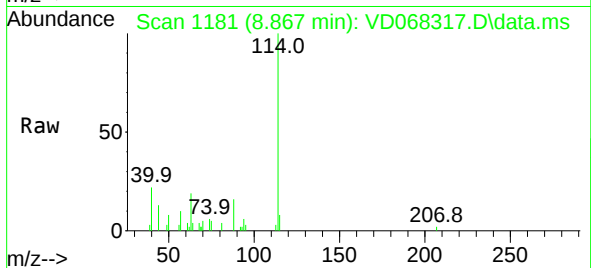




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

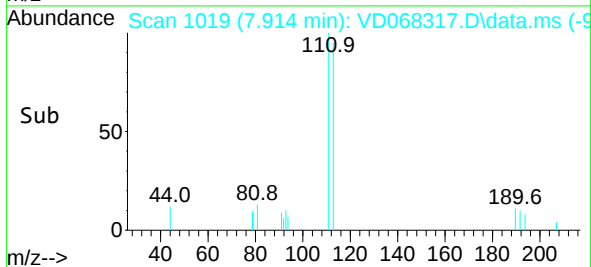
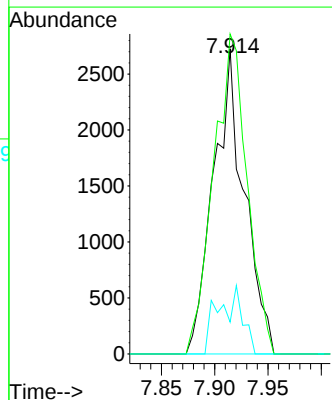
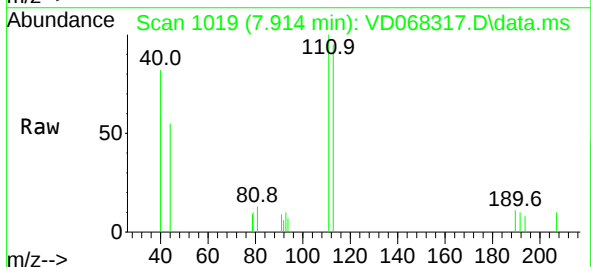
Instrument :
MSVOA_D
ClientSampleId :

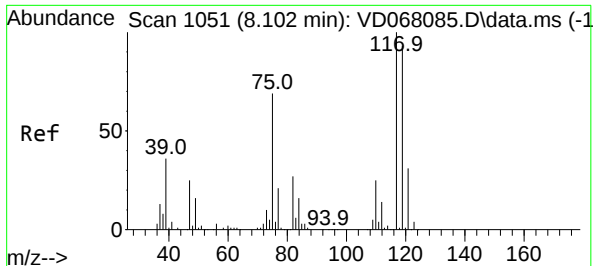
Tgt Ion:	114	Resp:	22595
Ion Ratio	Lower	Upper	
114	100		
63	19.2	0.0	34.8
88	16.4	0.0	31.6



#35
Dibromofluoromethane
Concen: 43.88 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

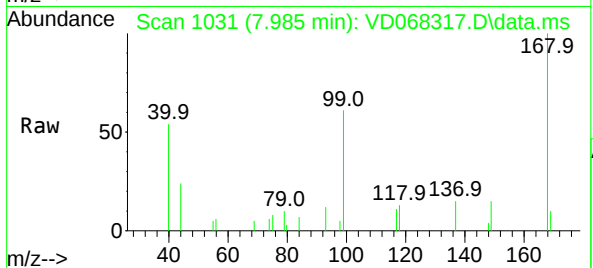
Tgt Ion:	113	Resp:	5481
Ion Ratio	Lower	Upper	
113	100		
111	114.1	81.4	122.0
192	10.1	16.1	24.1#



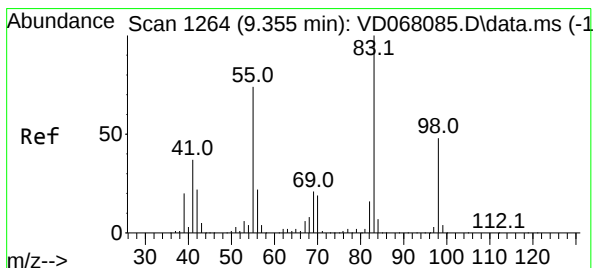
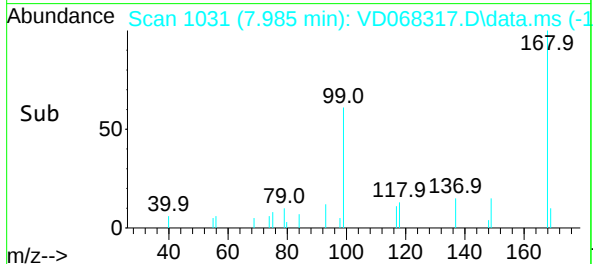
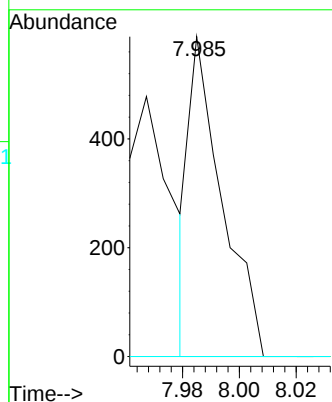


#38
Carbon Tetrachloride
Concen: 2.20 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.117 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Instrument :
MSVOA_D
ClientSampleId :

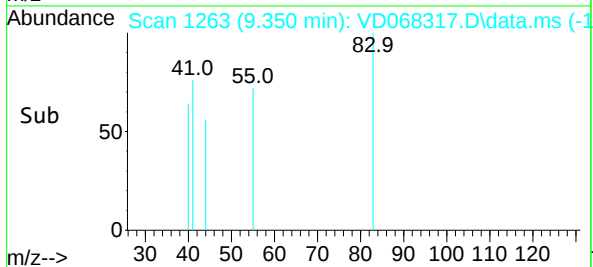
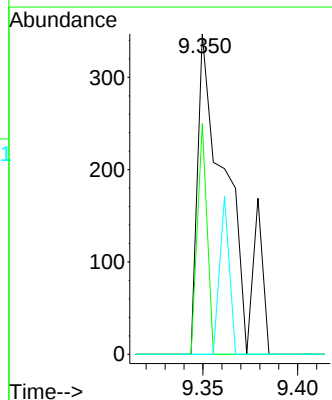
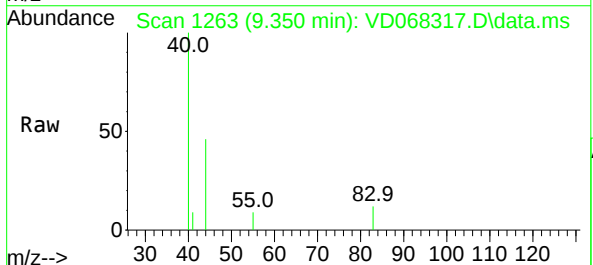


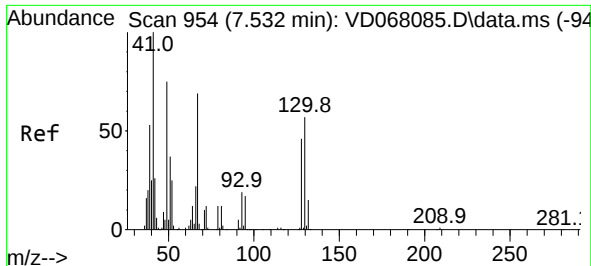
Tgt Ion:117 Resp: 470
Ion Ratio Lower Upper
117 100
119 0.0 77.3 115.9#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 1.31 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 83 Resp: 390
Ion Ratio Lower Upper
83 100
55 72.0 55.2 82.8
98 0.0 39.1 58.7#

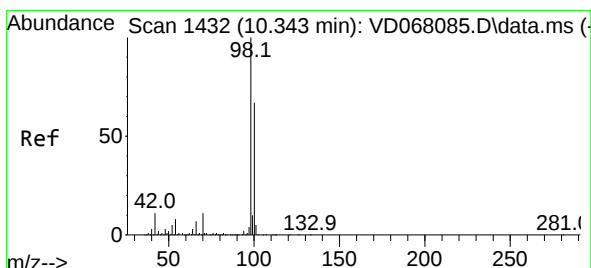
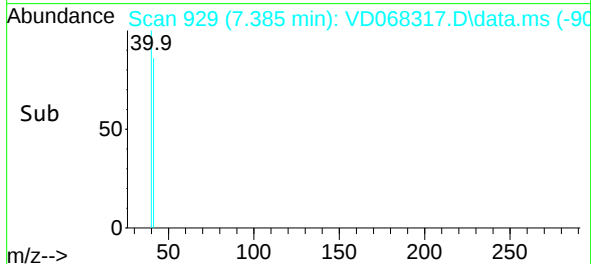
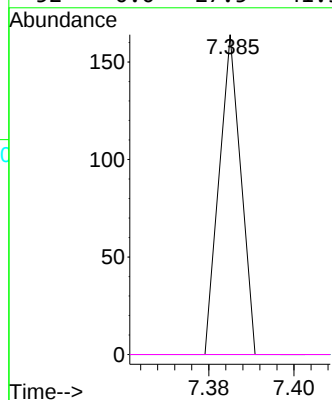
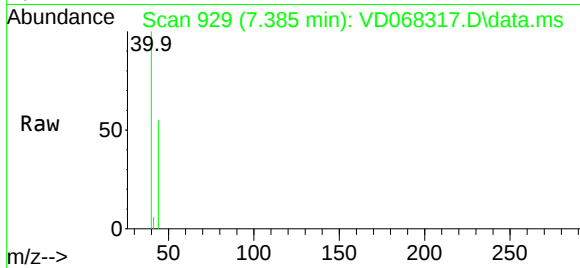




#41
Methacrylonitrile
Concen: 1.19 ug/l
RT: 7.385 min Scan# 929
Delta R.T. -0.147 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

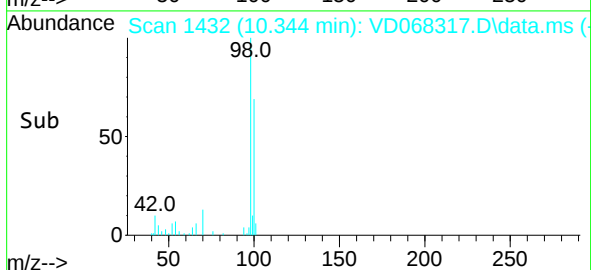
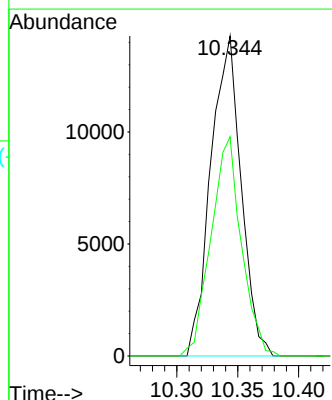
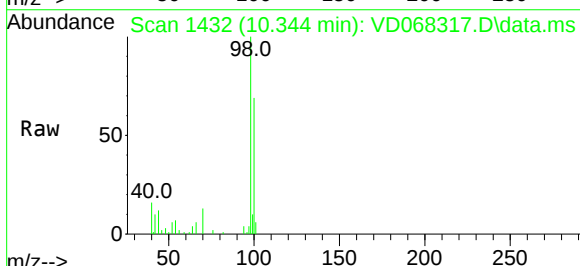
Instrument :
MSVOA_D
ClientSampleId :

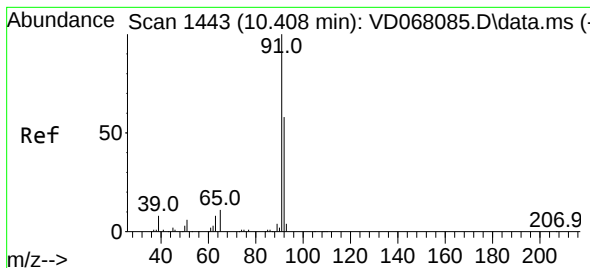
Tgt Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
39 0.0 45.2 67.8#
67 0.0 67.4 101.2#
52 0.0 27.5 41.3#



#50
Toluene-d8
Concen: 49.39 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 98 Resp: 24680
Ion Ratio Lower Upper
98 100
100 68.8 53.0 79.4





#52

Toluene

Concen: 4.14 ug/l

RT: 10.408 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VD068317.D

Acq: 08 Feb 2021 14:42

Tgt Ion: 92 Resp: 1717

Ion Ratio Lower Upper

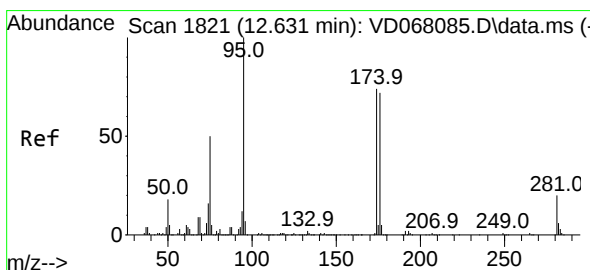
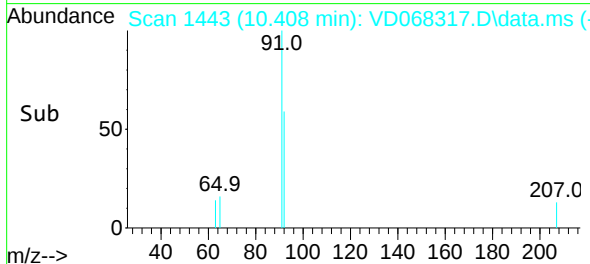
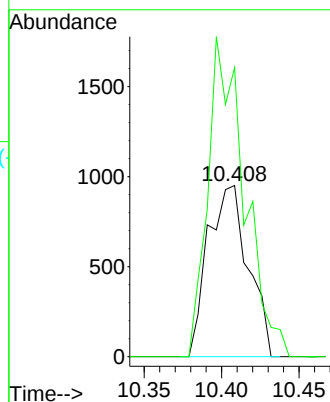
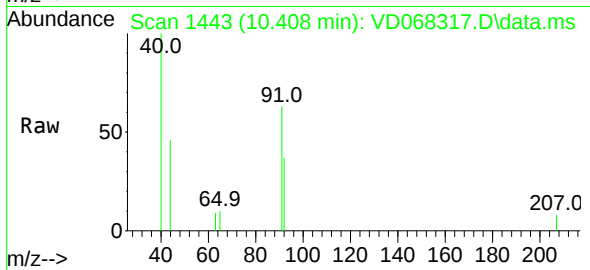
92 100

91 169.3 134.1 201.1

Instrument :

MSVOA_D

ClientSampleId :



#62

4-Bromofluorobenzene

Concen: 41.01 ug/l

RT: 12.632 min Scan# 1821

Delta R.T. 0.000 min

Lab File: VD068317.D

Acq: 08 Feb 2021 14:42

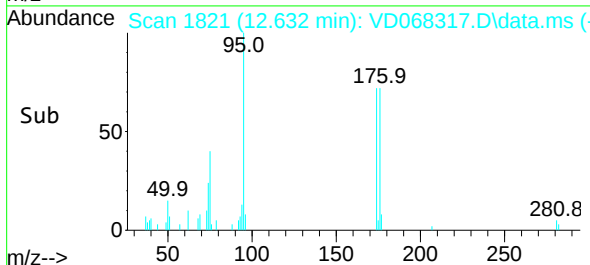
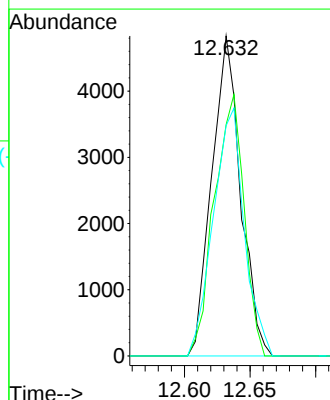
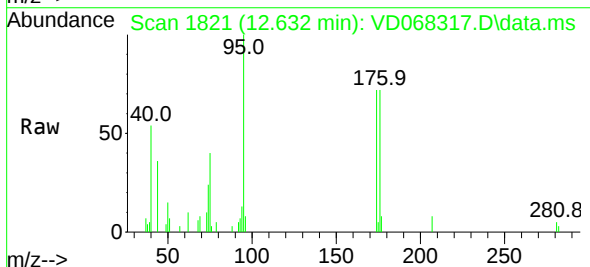
Tgt Ion: 95 Resp: 7379

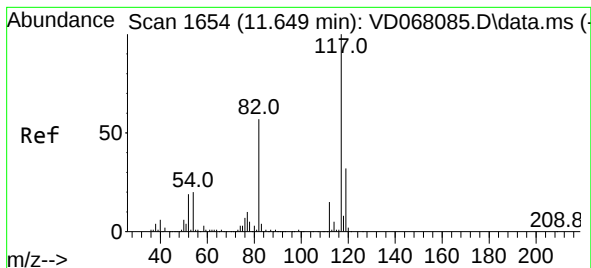
Ion Ratio Lower Upper

95 100

174 84.3 0.0 172.4

176 83.2 0.0 168.4

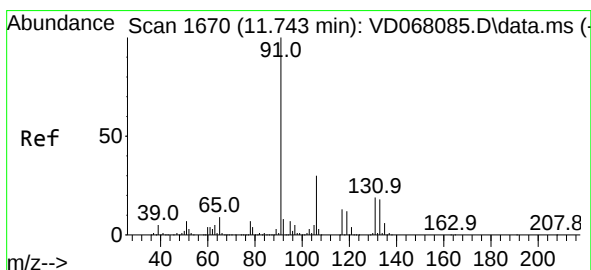
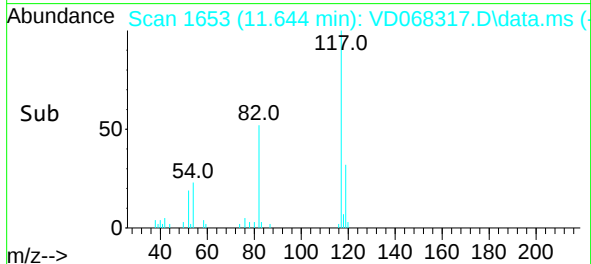
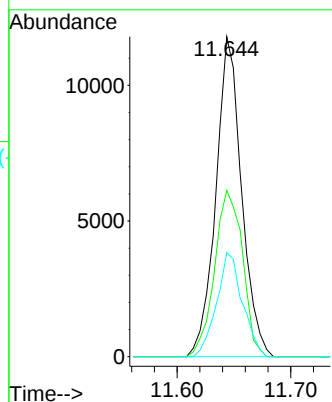
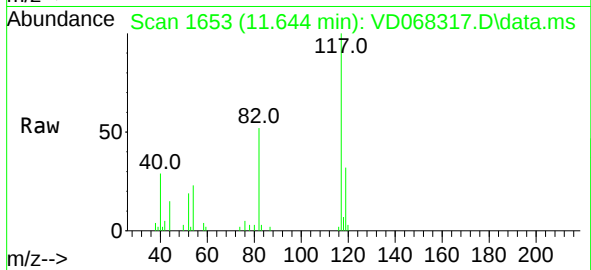




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. -0.005 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

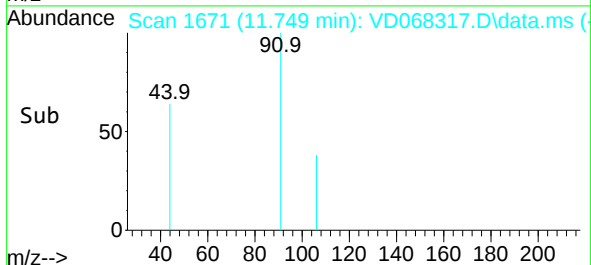
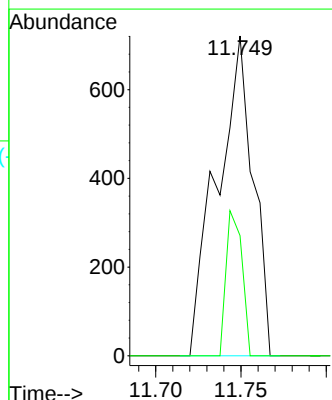
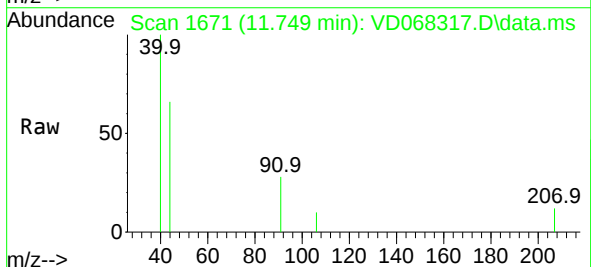
Instrument :
MSVOA_D
ClientSampleId :

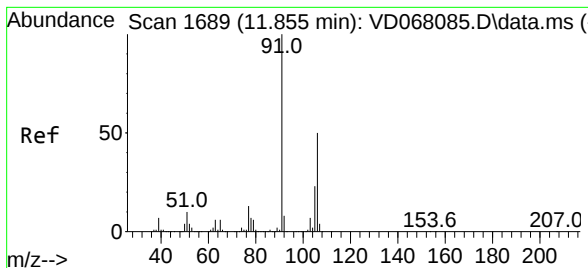
Tgt Ion:117 Resp: 18557
Ion Ratio Lower Upper
117 100
82 52.0 41.4 62.0
119 32.5 26.1 39.1



#67
Ethyl Benzene
Concen: 1.45 ug/l
RT: 11.749 min Scan# 1671
Delta R.T. 0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 91 Resp: 1058
Ion Ratio Lower Upper
91 100
106 37.6 25.9 38.9

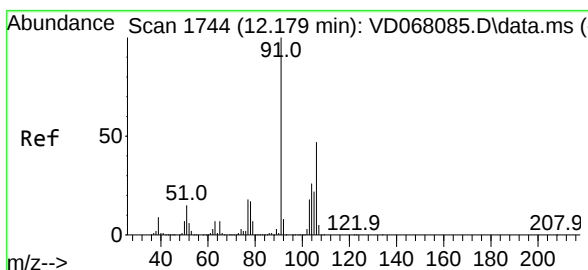
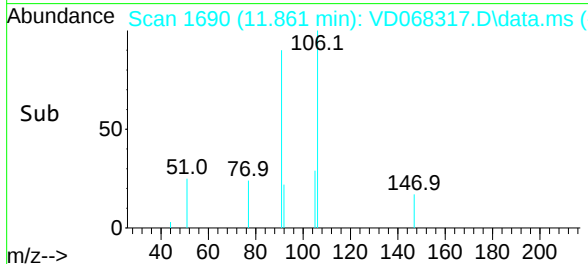
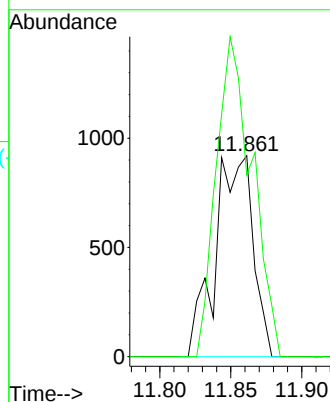
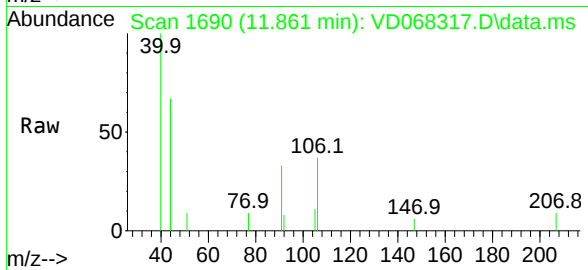




#68
m/p-Xylenes
Concen: 6.20 ug/l
RT: 11.861 min Scan# 1690
Delta R.T. 0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

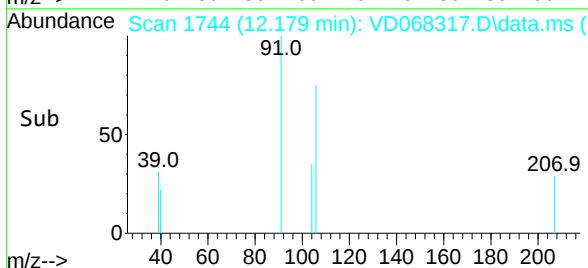
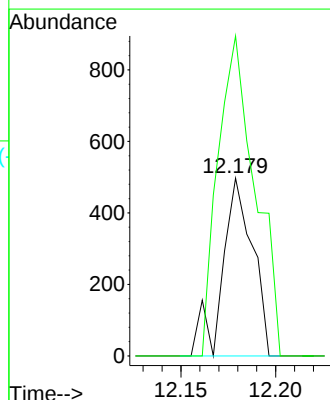
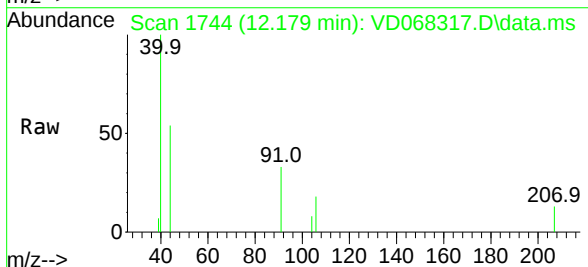
Instrument :
MSVOA_D
ClientSampled :

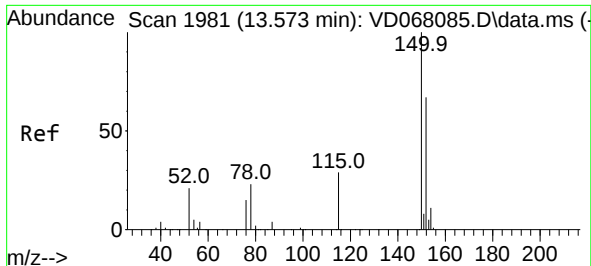
Tgt Ion:106 Resp: 1709
Ion Ratio Lower Upper
106 100
91 150.7 159.1 238.7#



#69
o-Xylene
Concen: 2.15 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion:106 Resp: 551
Ion Ratio Lower Upper
106 100
91 221.4 108.7 325.9

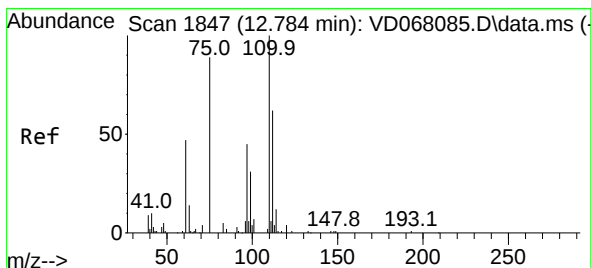
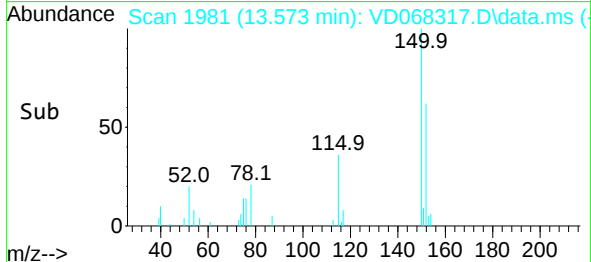
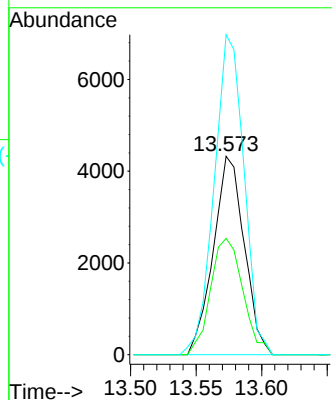
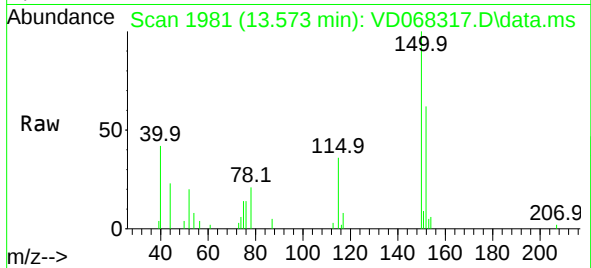




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

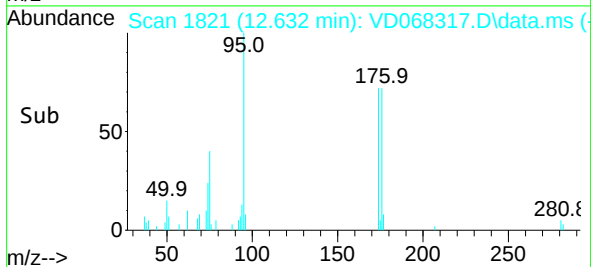
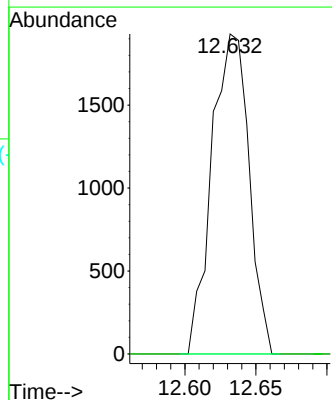
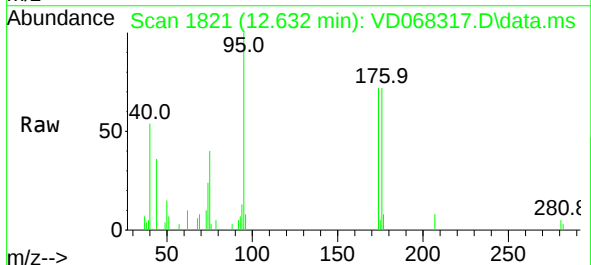
Instrument :
MSVOA_D
ClientSampleId :

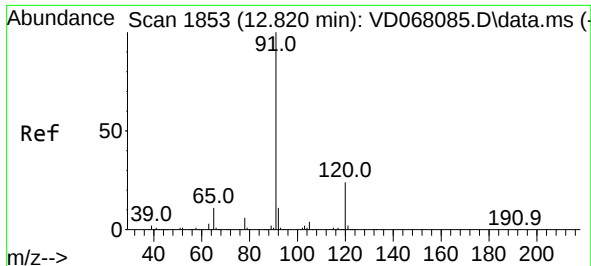
Tgt Ion:152 Resp: 7086
Ion Ratio Lower Upper
152 100
115 61.2 28.9 86.8
150 155.3 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 51.30 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 75 Resp: 3515
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

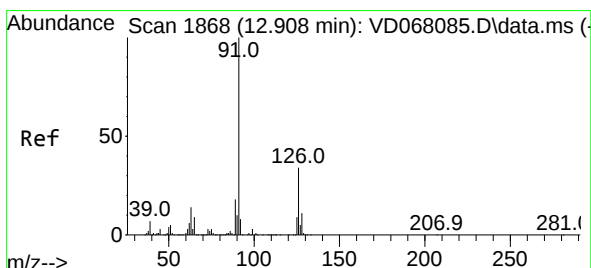
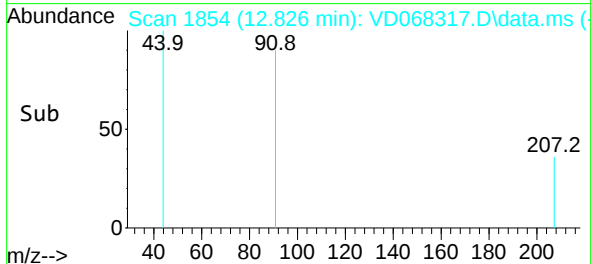
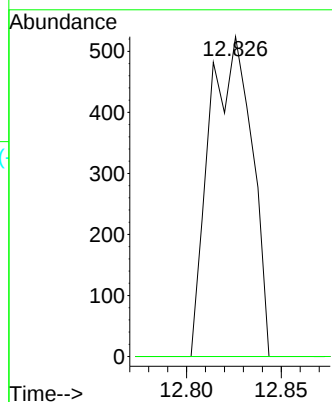
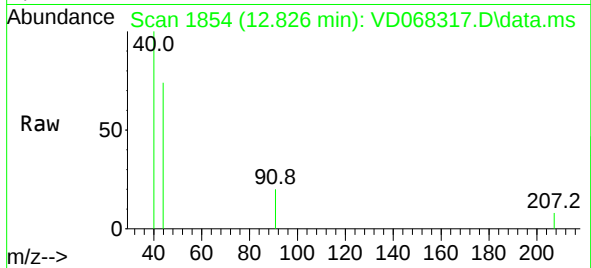




#78
n-propylbenzene
Concen: 1.17 ug/l
RT: 12.826 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

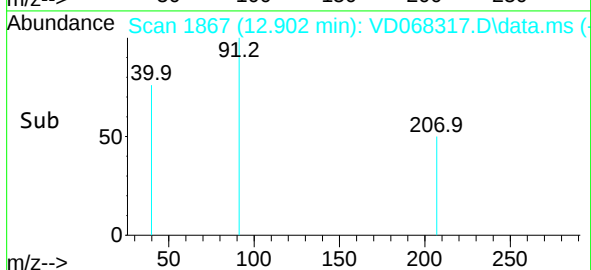
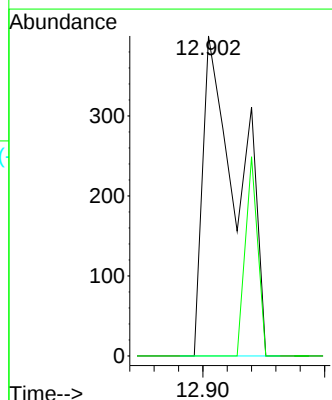
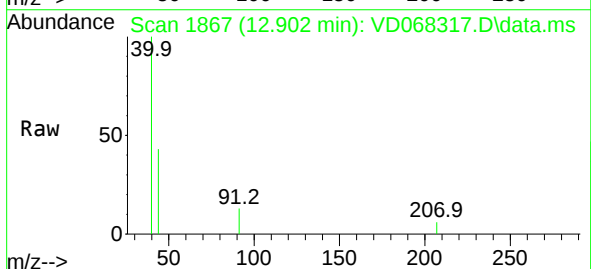
Instrument :
MSVOA_D
ClientSampled :

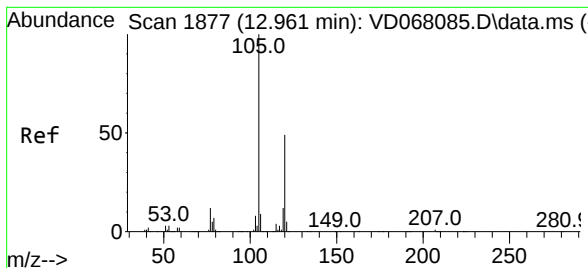
Tgt Ion: 91 Resp: 818
Ion Ratio Lower Upper
91 100
120 0.0 12.0 36.0#



#79
2-Chlorotoluene
Concen: 1.04 ug/l
RT: 12.902 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 91 Resp: 406
Ion Ratio Lower Upper
91 100
126 21.7 17.8 53.5

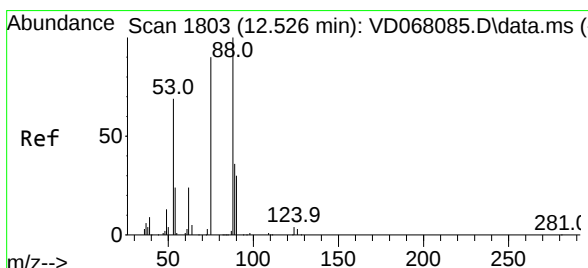
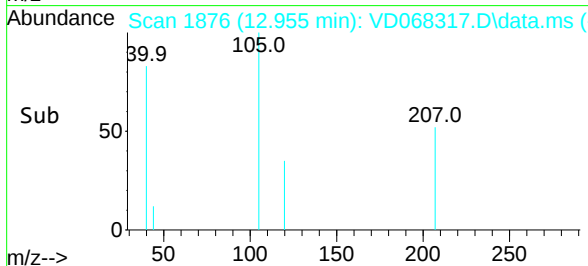
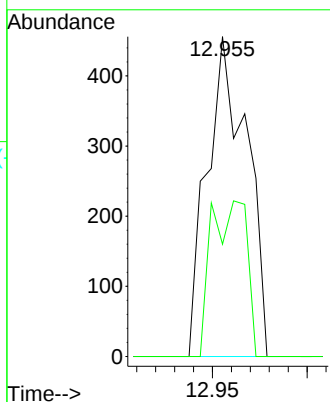
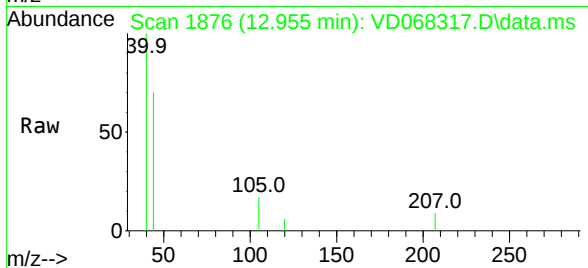




#80
1,3,5-Trimethylbenzene
Concen: 1.35 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

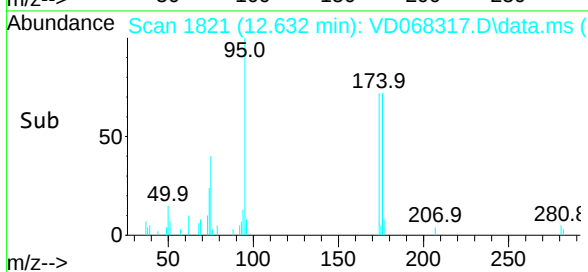
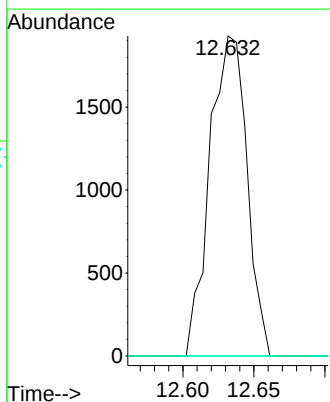
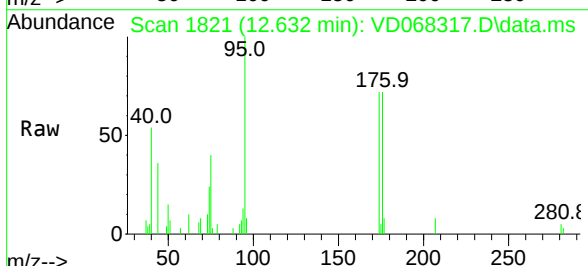
Instrument :
MSVOA_D
ClientSampled :

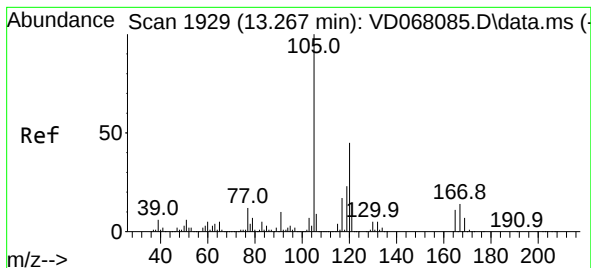
Tgt Ion:105 Resp: 665
Ion Ratio Lower Upper
105 100
120 43.5 24.2 72.6



#81
trans-1,4-Dichloro-2-butene
Concen: 103.81 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 75 Resp: 3515
Ion Ratio Lower Upper
75 100
53 0.0 70.2 105.2#
89 0.0 40.3 60.5#





#84

1,2,4-Trimethylbenzene

Concen: 1.02 ug/l

RT: 13.261 min Scan# 1928

Delta R.T. -0.006 min

Lab File: VD068317.D

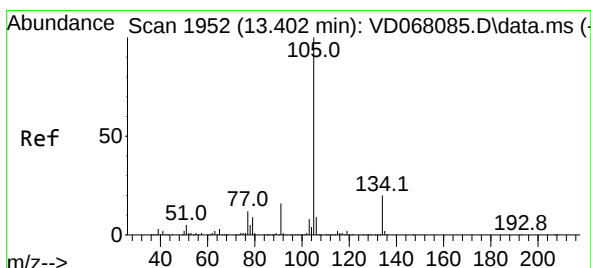
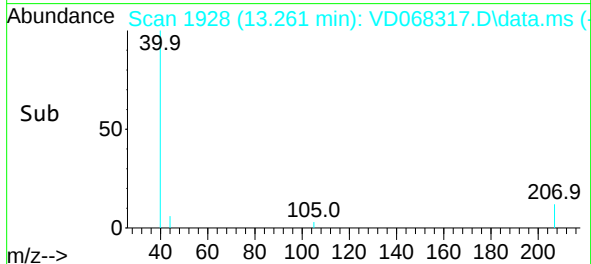
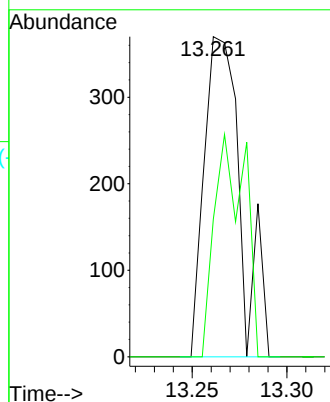
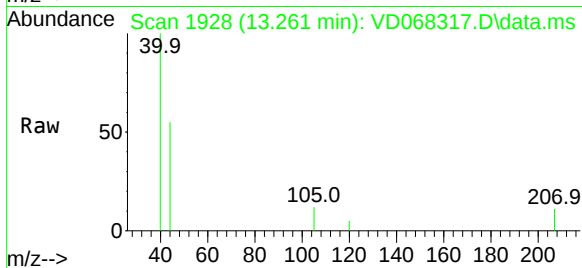
Acq: 08 Feb 2021 14:42

Tgt Ion:105 Resp: 495

Ion Ratio Lower Upper

105 100

120 58.4 22.4 67.0



#85

sec-Butylbenzene

Concen: 1.09 ug/l

RT: 13.391 min Scan# 1950

Delta R.T. -0.011 min

Lab File: VD068317.D

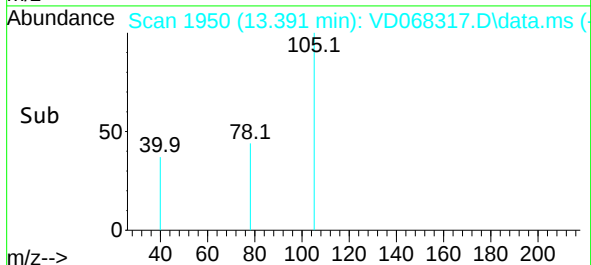
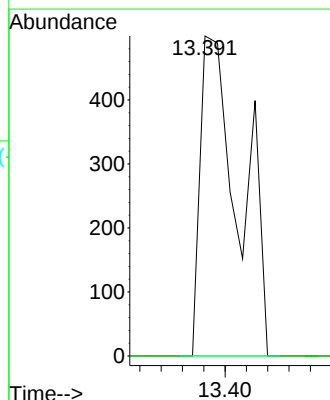
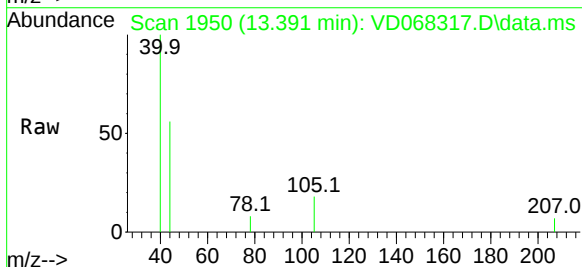
Acq: 08 Feb 2021 14:42

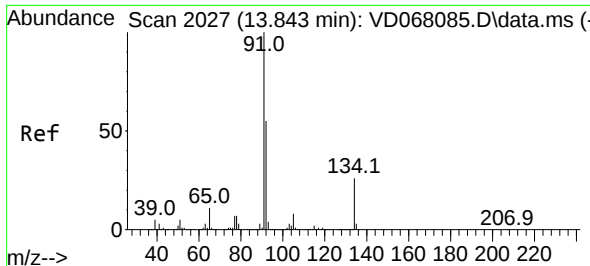
Tgt Ion:105 Resp: 634

Ion Ratio Lower Upper

105 100

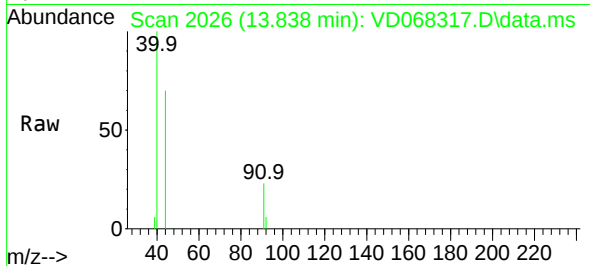
134 0.0 10.3 30.9#



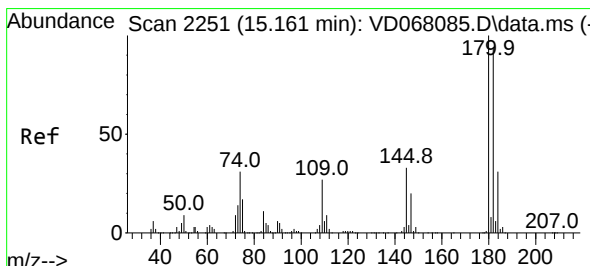
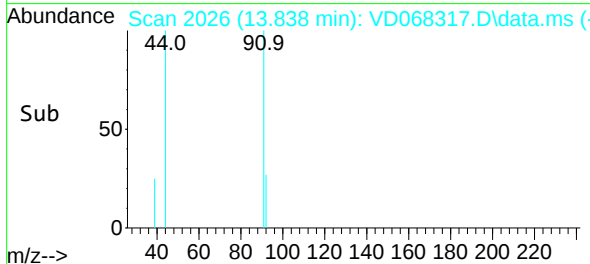
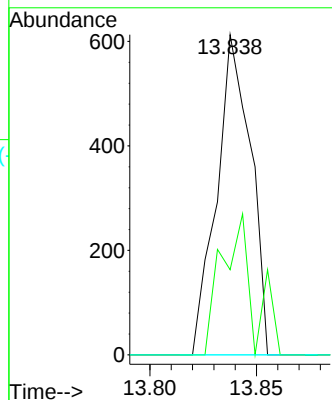


#89
n-Butylbenzene
Concen: 1.33 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. -0.006 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Instrument :
MSVOA_D
ClientSampleId :

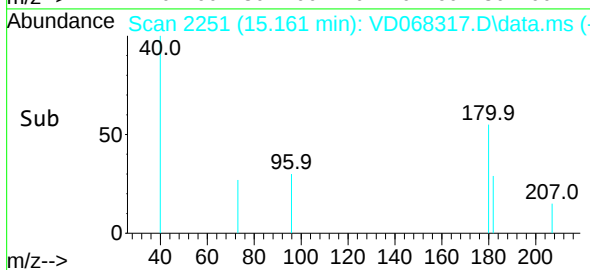
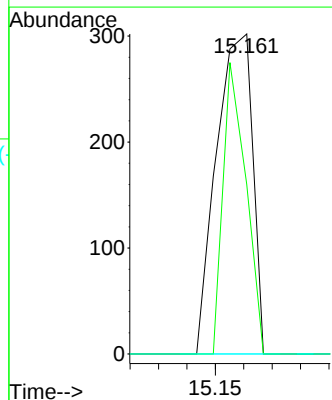
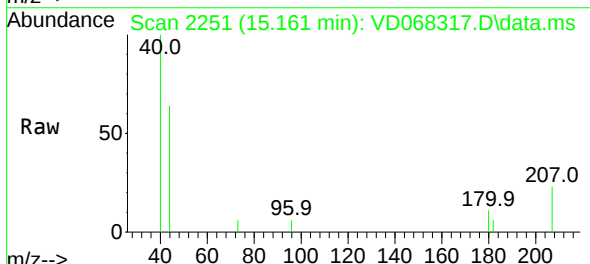


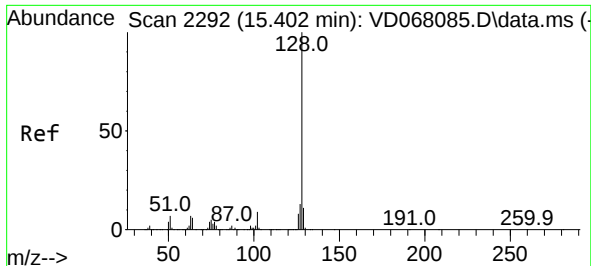
Tgt Ion: 91 Resp: 678
Ion Ratio Lower Upper
91 100
92 41.6 27.2 81.6
134 0.0 13.9 41.7#



#93
1,2,4-Trichlorobenzene
Concen: 1.87 ug/l
RT: 15.161 min Scan# 2251
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion: 180 Resp: 267
Ion Ratio Lower Upper
180 100
182 57.3 46.8 140.4
145 0.0 15.2 45.5#

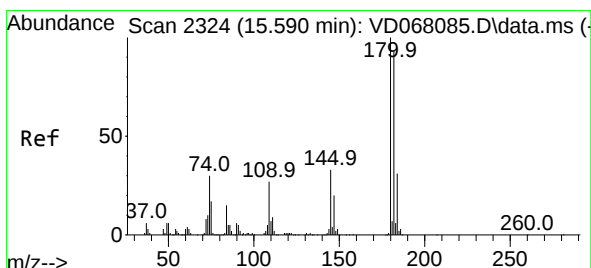
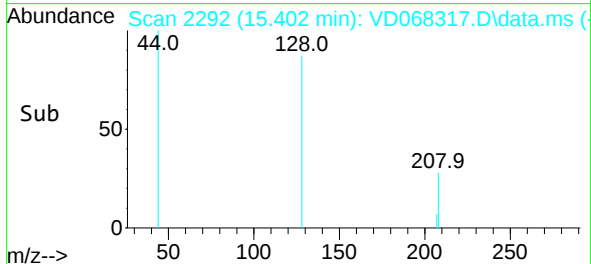
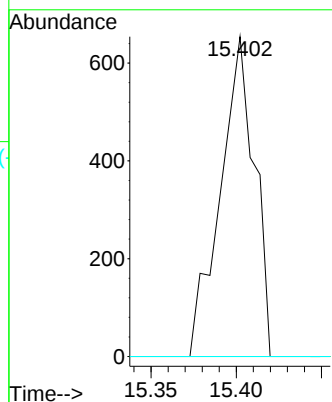
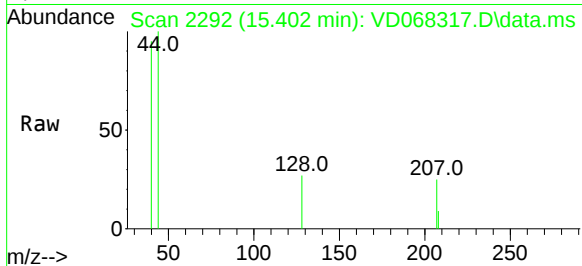




#95
Naphthalene
Concen: 3.41 ug/l
RT: 15.402 min Scan# 2292
Delta R.T. 0.000 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 913
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 1.04 ug/l
RT: 15.602 min Scan# 2326
Delta R.T. 0.012 min
Lab File: VD068317.D
Acq: 08 Feb 2021 14:42

Tgt Ion:180 Resp: 125
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.8#
145 0.0 16.7 50.1#

