

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031822\
 Data File : VD072312.D
 Acq On : 19 Mar 2022 02:42
 Operator : VA/SY
 Sample : N1960-16
 Misc : 5.31G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-13-20220316-18.0-19.0

Quant Time: Mar 19 05:33:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031122S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 14 05:18:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	466334	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	772081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	847931	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	422279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	231587	44.561	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.120%		
35) Dibromofluoromethane	7.909	113	231607	42.628	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	85.260%		
50) Toluene-d8	10.332	98	981462	49.403	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	98.800%		
62) 4-Bromofluorobenzene	12.626	95	439397	56.922	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	113.840%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.303	142	1221	2.471	ug/l #	46
11) Tert butyl alcohol	5.232	59	563	1.868	ug/l #	74
16) Acetone	4.156	43	32564	28.859	ug/l	99
17) Carbon Disulfide	4.409	76	227527	23.579	ug/l	99
19) Methyl tert-butyl Ether	5.467	73	68155	5.851	ug/l	97
20) Methylene Chloride	4.956	84	13200	Below Cal		86
25) 2-Butanone	7.209	43	10688	7.104	ug/l	97
31) Cyclohexane	7.979	56	13060	1.608	ug/l #	3
36) 1,1-Dichloropropene	7.973	75	38200	5.012	ug/l #	51
37) Ethyl Acetate	7.209	43	10688	3.201	ug/l #	85
38) Carbon Tetrachloride	7.973	117	49317	5.692	ug/l #	18
40) Benzene	8.350	78	198682	9.137	ug/l	95
59) 2-Hexanone	10.944	43	6785	2.886	ug/l #	31
67) Ethyl Benzene	11.738	91	94566	2.817	ug/l	97
69) o-Xylene	12.173	106	27852	2.284	ug/l	99
73) Isopropylbenzene	12.473	105	60101	1.796	ug/l	98
74) N-amyl acetate	12.255	43	11901	1.655	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.708	83	16232	2.712	ug/l #	29
76) 1,2,3-Trichloropropane	12.620	75	244952	52.586	ug/l #	100
77) Bromobenzene	12.949	156	1142752	151.723	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.949	105	56458	1.964	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.496	75	66077	35.195	ug/l #	21
84) 1,2,4-Trimethylbenzene	13.255	105	111933	3.952	ug/l	90
90) Hexachloroethane	14.102	117	9823	1.609	ug/l #	18
95) Naphthalene	15.385	128	855440	54.464	ug/l	99

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

Instrument :
MSVOA_D
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SB-13-20220316-18.0-19.0

Abundance

TIC: VD072312.D\data.ms

Time-->

3200000

3000000

2800000

2600000

2400000

2200000

2000000

1800000

1600000

1400000

1200000

1000000

800000

600000

400000

200000

0

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Acetone, T

Methyl iodide, T

Carbon disulfide, T

Tert butyl alcohol, T

Methyl tert-butyl Ether, T

Ethyl acetate, T

Dibromofluoromethane, T

Chloroacetaldehyde, T

Benzaldehyde, T

1,4-Dichlorobenzene-d4, S

1,4-Difluorobenzene, I

Toluene-d8, S

2-Hexanone, T

Ethyl Benzene, C

N-ethylacetamide, T

Isopropylbenzene, T

trans-1,4-Dichloro-2-butene, T

1,1,2,2-Tetrachloroethane, P

1,2,4-Trimethylbenzene, T

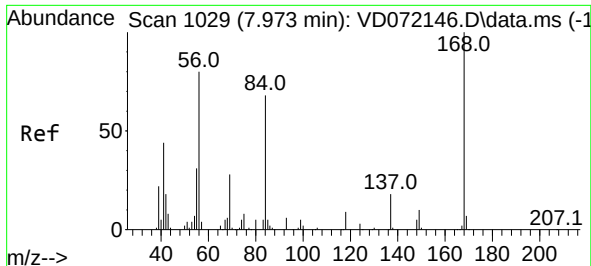
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Hexachloroethane, T

Naphthalene, T

1,2,3-Trichlorobenzene-d3, S

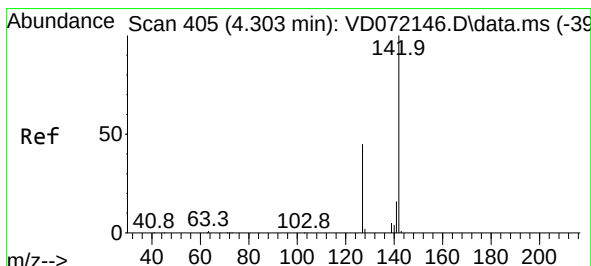
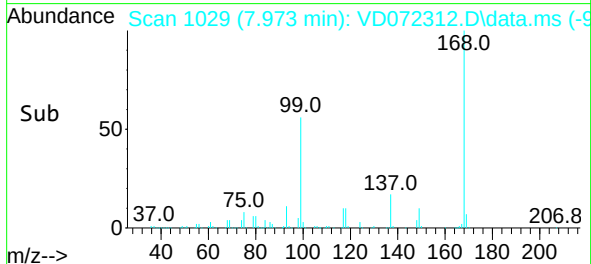
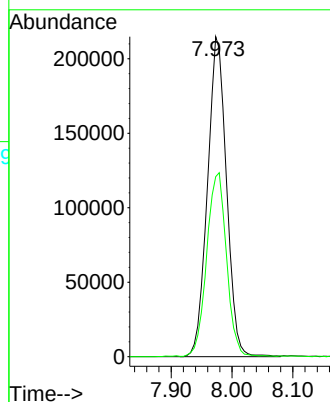
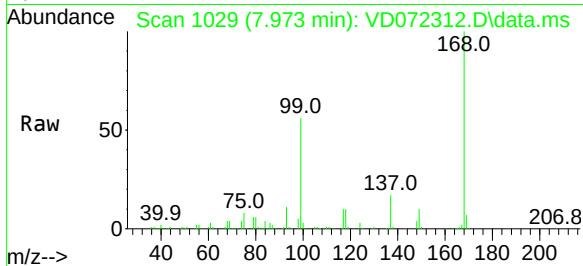
1,2,4-Dichlorobenzene-d4, I



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

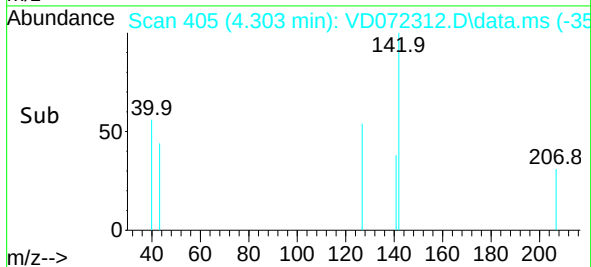
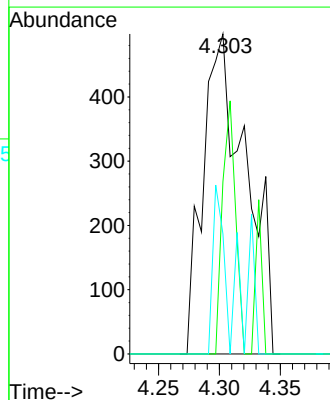
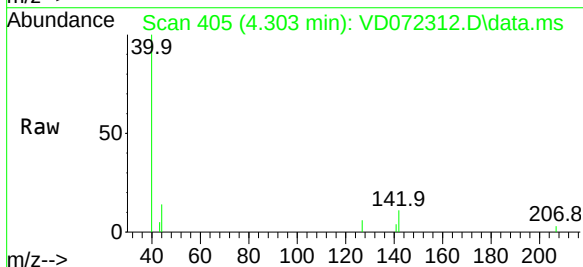
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

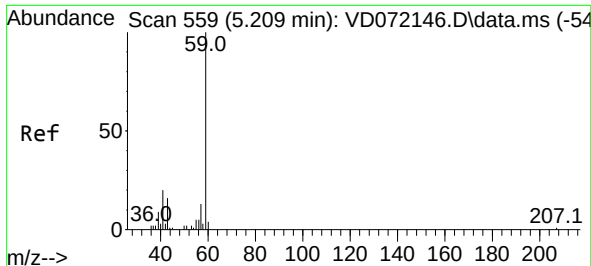
Tgt Ion:168 Resp: 466334
Ion Ratio Lower Upper
168 100
99 56.2 49.8 74.6



#10
Methyl Iodide
Concen: 2.471 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion:142 Resp: 1221
Ion Ratio Lower Upper
142 100
127 0.0 37.3 55.9#
141 13.0 11.7 17.5

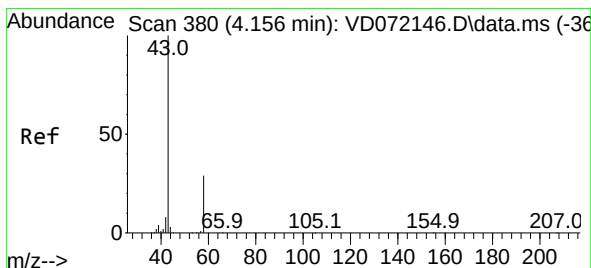
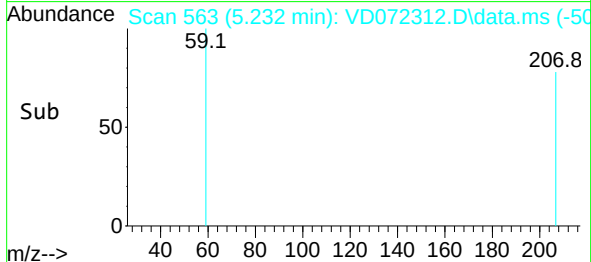
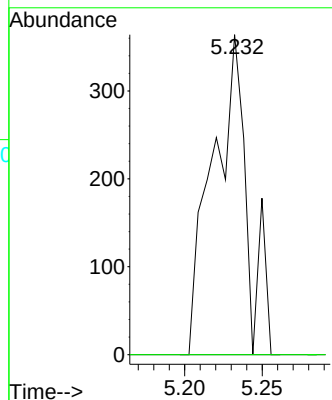
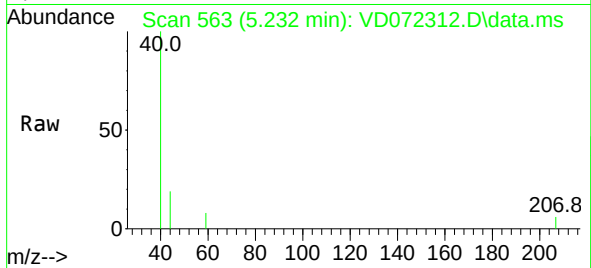




#11
Tert butyl alcohol
Concen: 1.868 ug/l
RT: 5.232 min Scan# 50
Delta R.T. 0.024 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

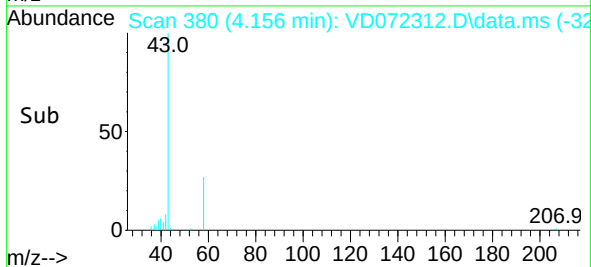
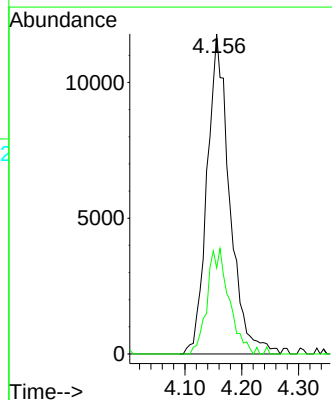
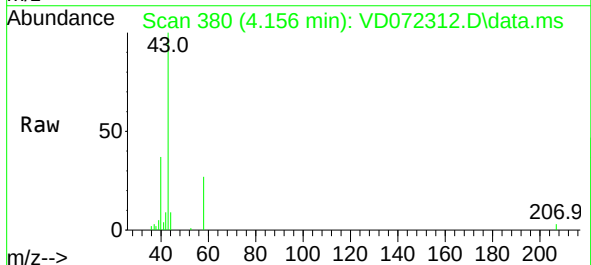
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

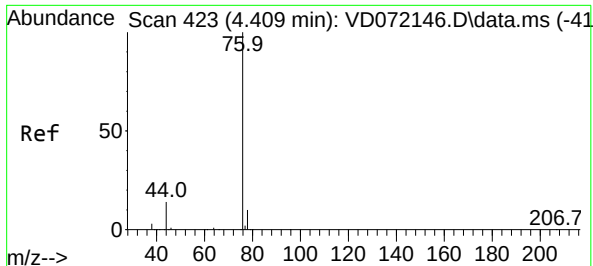
Tgt Ion: 59 Resp: 563
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#16
Acetone
Concen: 28.859 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 43 Resp: 32564
Ion Ratio Lower Upper
43 100
58 26.9 22.1 33.1

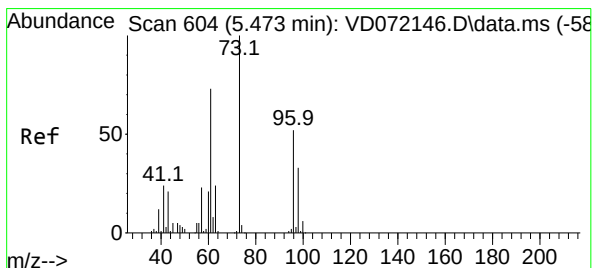
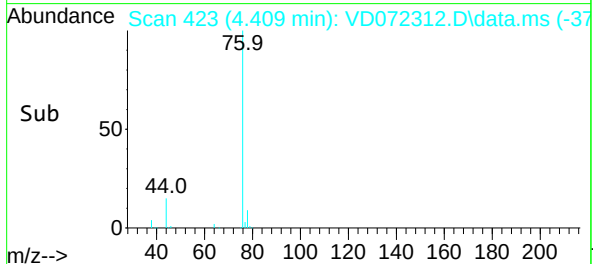
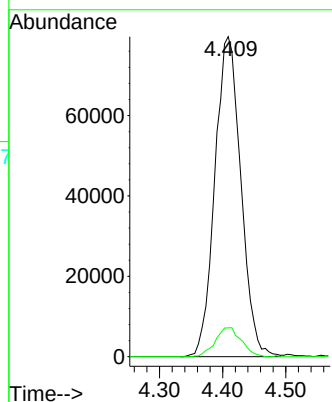
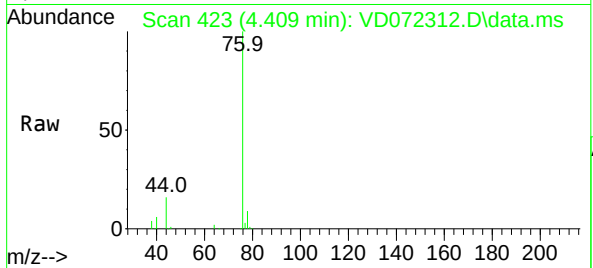




#17
Carbon Disulfide
Concen: 23.579 ug/l
RT: 4.409 min Scan# 41
Delta R.T. -0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

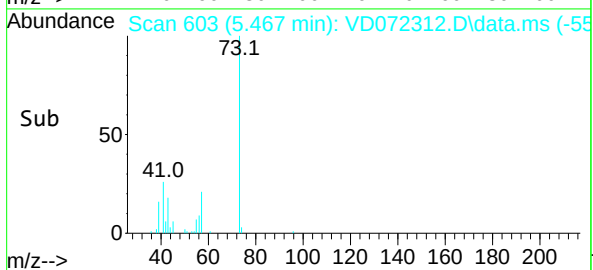
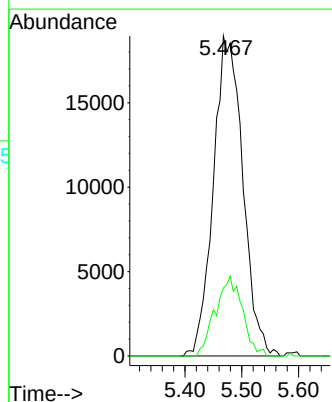
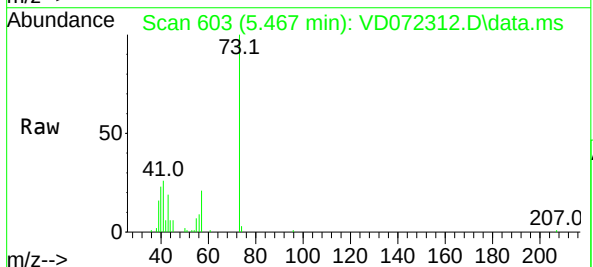
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

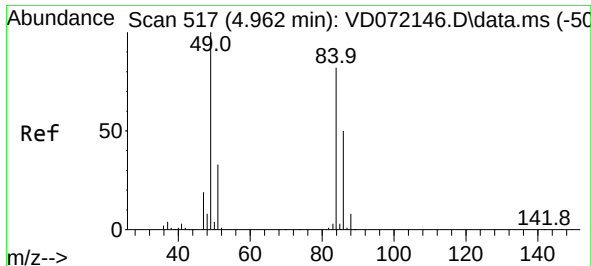
Tgt Ion: 76 Resp: 227527
Ion Ratio Lower Upper
76 100
78 9.0 7.5 11.3



#19
Methyl tert-butyl Ether
Concen: 5.851 ug/l
RT: 5.467 min Scan# 603
Delta R.T. -0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

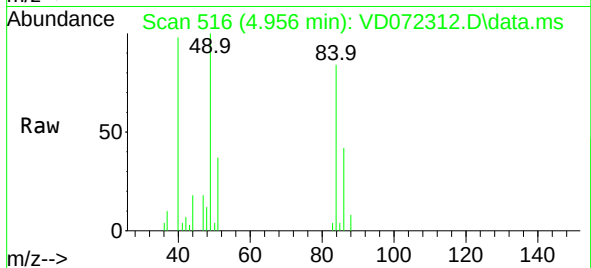
Tgt Ion: 73 Resp: 68155
Ion Ratio Lower Upper
73 100
57 21.2 18.0 27.0



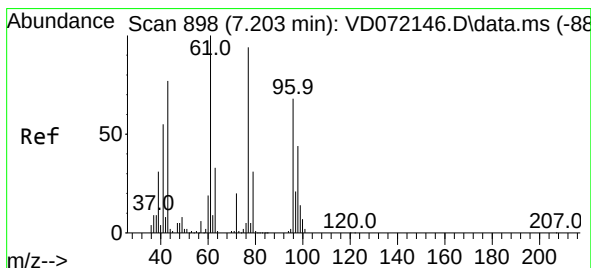
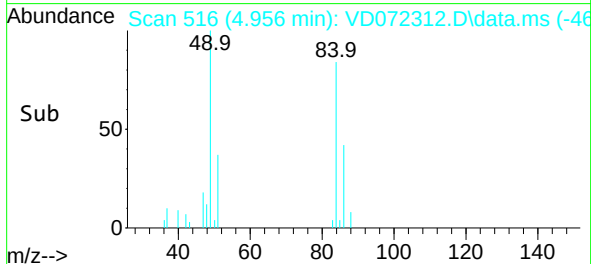
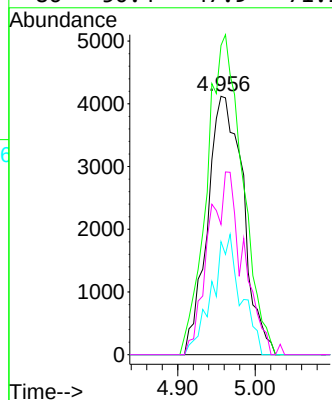


#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

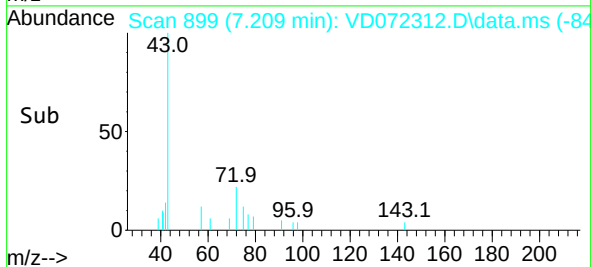
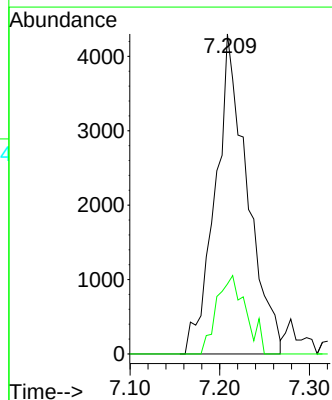
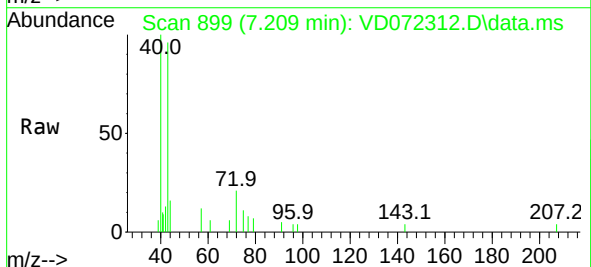


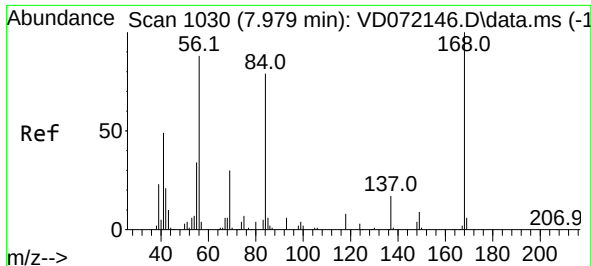
Tgt Ion:	84	Resp:	13200
Ion	Ratio	Lower	Upper
84	100		
49	119.7	112.8	169.2
51	43.7	32.6	48.8
86	50.4	47.9	71.9



#25
2-Butanone
Concen: 7.104 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion:	43	Resp:	10688
Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.6	27.8

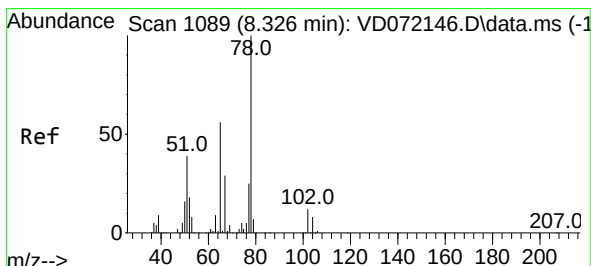
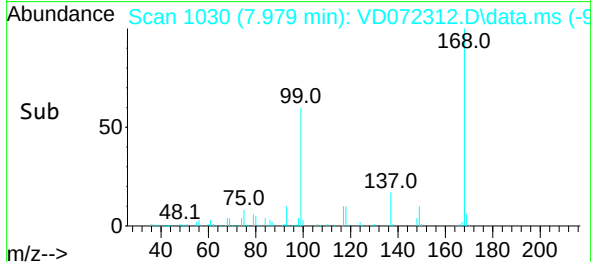
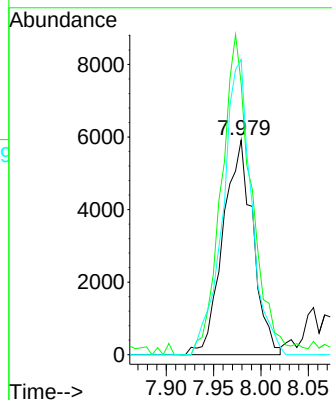
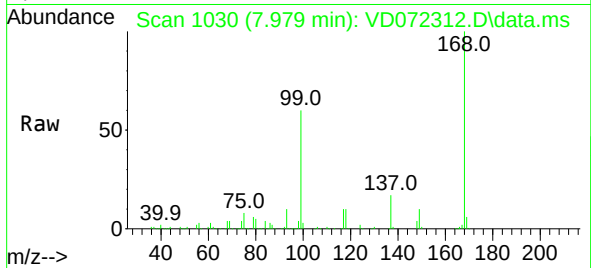




#31
Cyclohexane
Concen: 1.608 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

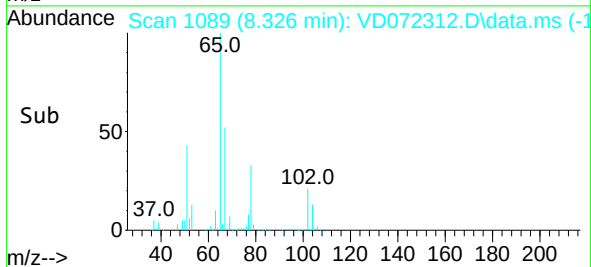
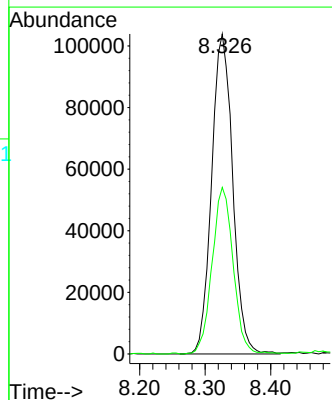
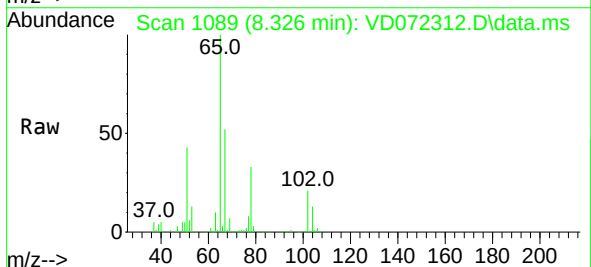
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

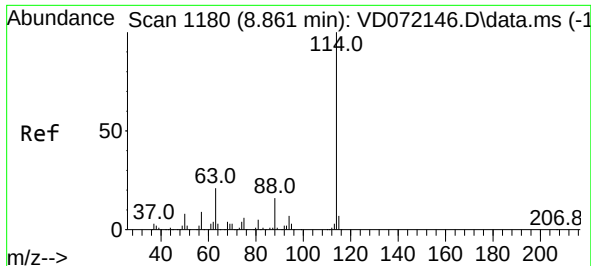
Tgt Ion: 56 Resp: 13060
Ion Ratio Lower Upper
56 100
69 126.4 25.4 38.2#
84 137.6 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 44.561 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 65 Resp: 231587
Ion Ratio Lower Upper
65 100
67 52.2 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072312.D

Acq: 19 Mar 2022 02:42

Instrument :

MSVOA_D

ClientSampleId :

SB-13-20220316-18.0-19.0

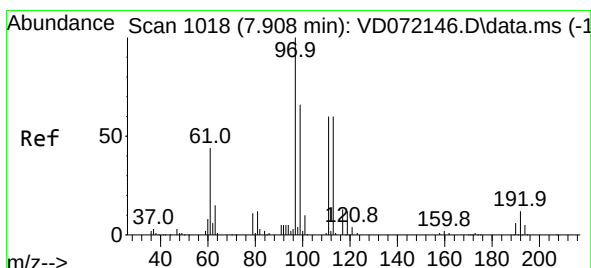
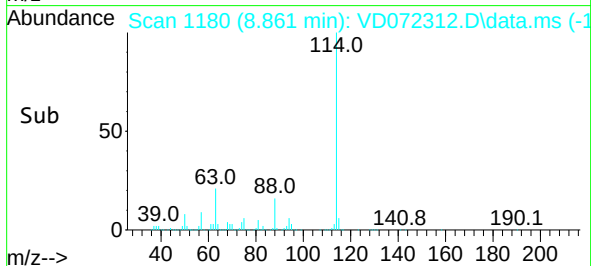
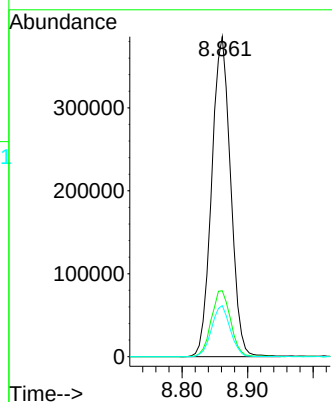
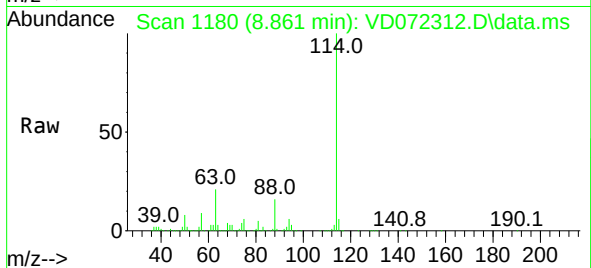
Tgt Ion:114 Resp: 772081

Ion Ratio Lower Upper

114 100

63 20.6 0.0 46.6

88 15.9 0.0 33.2



#35

Dibromofluoromethane

Concen: 42.628 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD072312.D

Acq: 19 Mar 2022 02:42

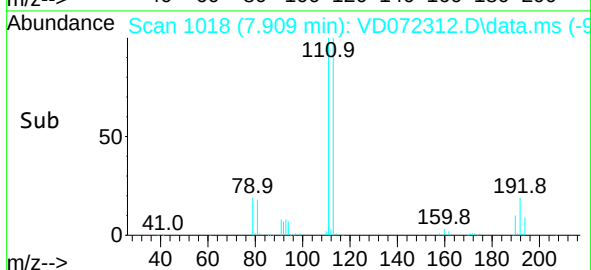
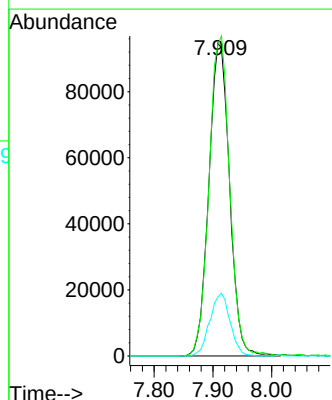
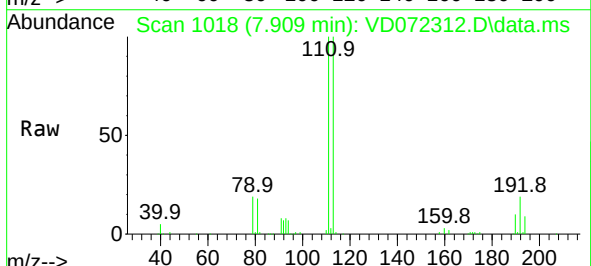
Tgt Ion:113 Resp: 231607

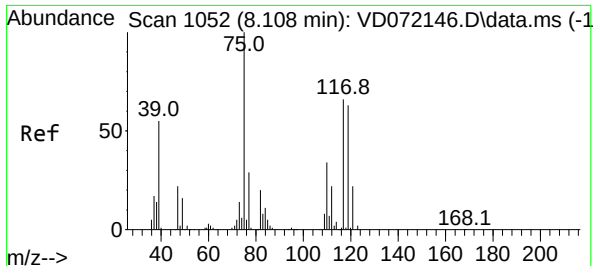
Ion Ratio Lower Upper

113 100

111 101.9 83.8 125.6

192 19.6 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.012 ug/l

RT: 7.973 min Scan# 1

Delta R.T. -0.135 min

Lab File: VD072312.D

Acq: 19 Mar 2022 02:42

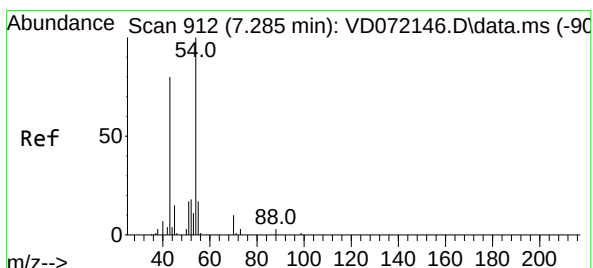
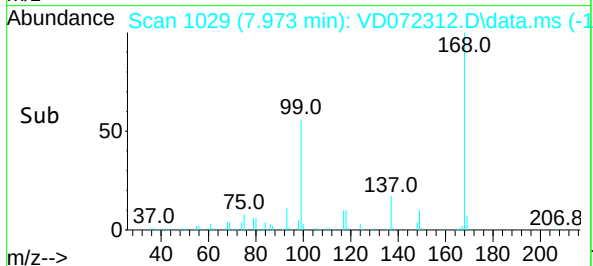
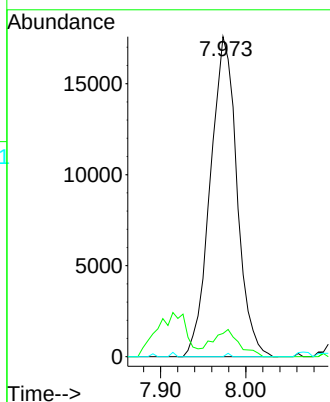
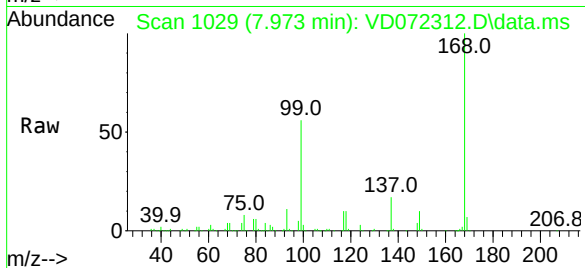
Instrument :

MSVOA_D

ClientSampleId :

SB-13-20220316-18.0-19.0

Tgt Ion: 75	Resp:	38200
Ion Ratio	Lower	Upper
75	100	
110	8.6	16.4 49.1#
77	0.0	24.2 36.2#



#37

Ethyl Acetate

Concen: 3.201 ug/l

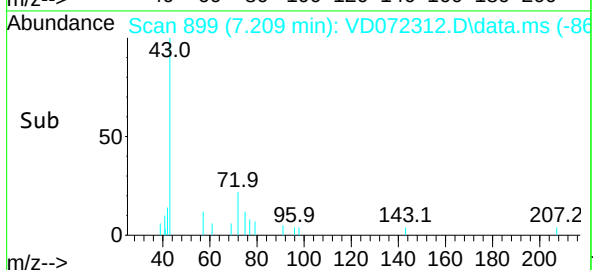
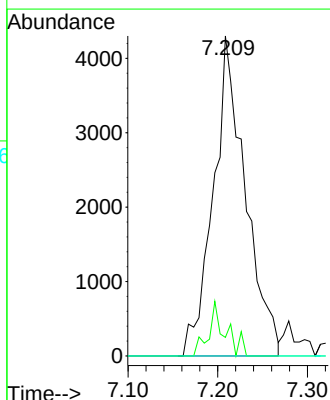
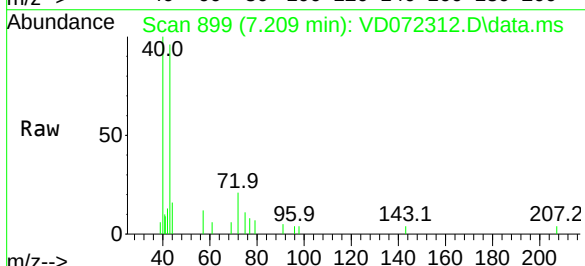
RT: 7.209 min Scan# 899

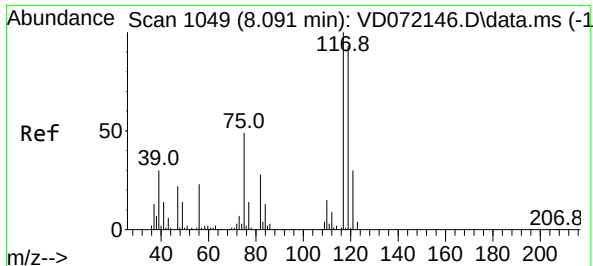
Delta R.T. -0.076 min

Lab File: VD072312.D

Acq: 19 Mar 2022 02:42

Tgt Ion: 43	Resp:	10688
Ion Ratio	Lower	Upper
43	100	
61	8.9	9.8 14.8#
70	0.0	6.9 10.3#

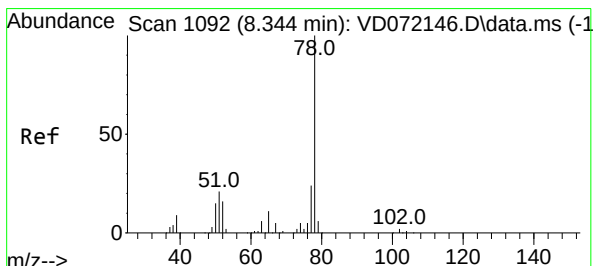
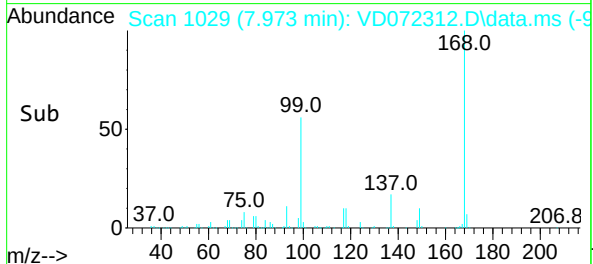
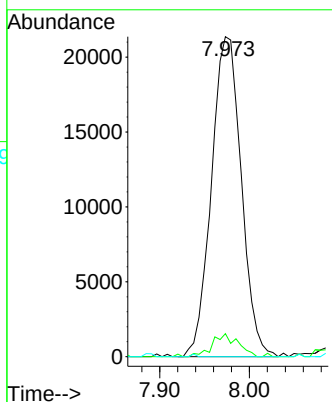
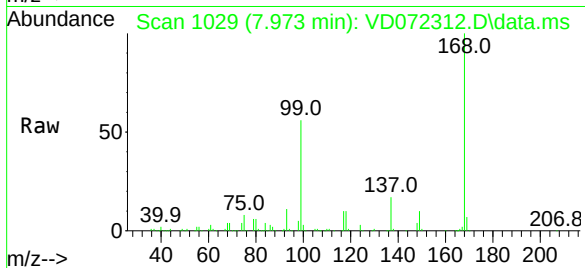




#38
Carbon Tetrachloride
Concen: 5.692 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

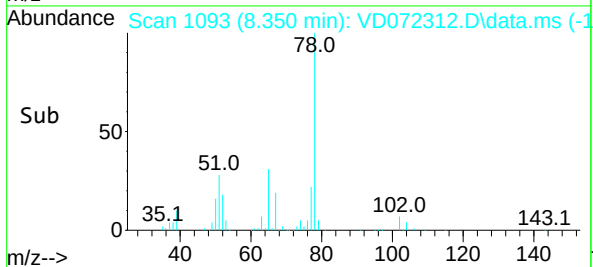
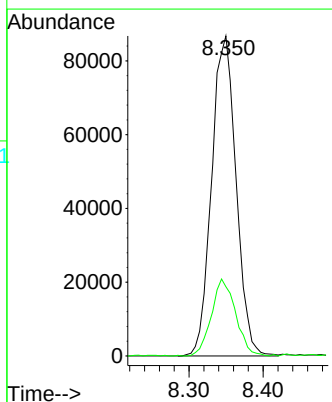
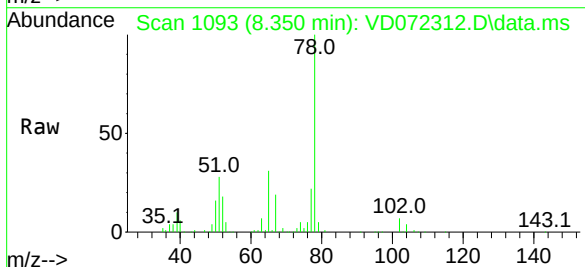
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

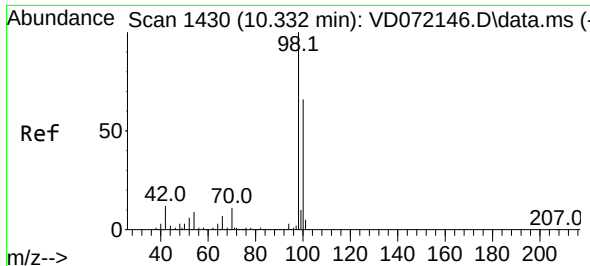
Tgt Ion:117 Resp: 49317
Ion Ratio Lower Upper
117 100
119 7.2 75.8 113.6#
121 0.0 24.5 36.7#



#40
Benzene
Concen: 9.137 ug/l
RT: 8.350 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 78 Resp: 198682
Ion Ratio Lower Upper
78 100
77 21.7 19.1 28.7

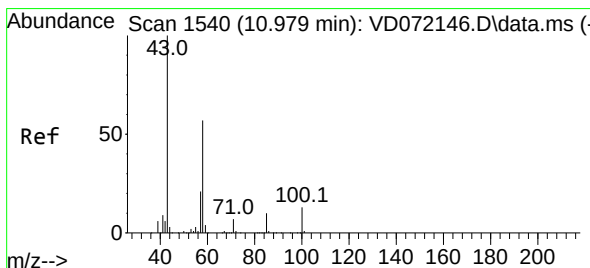
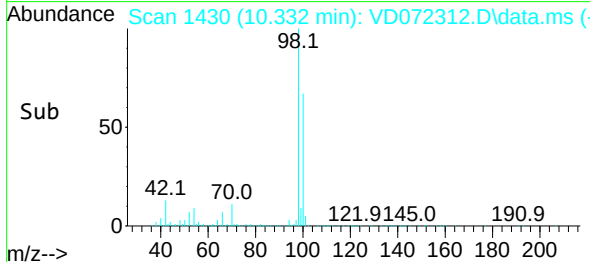
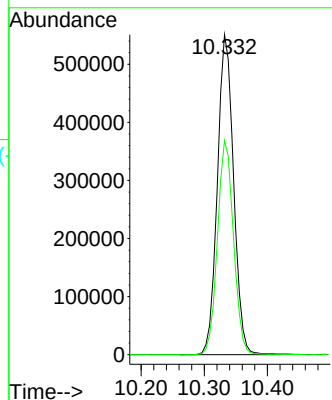
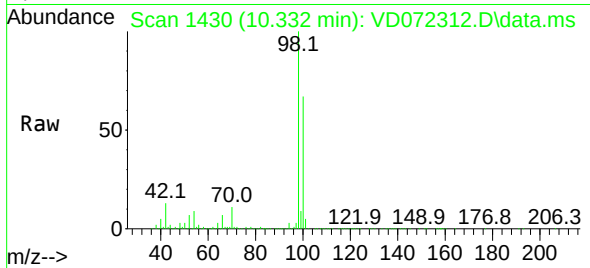




#50
Toluene-d8
Concen: 49.403 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

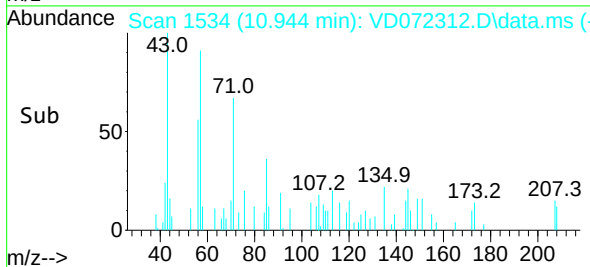
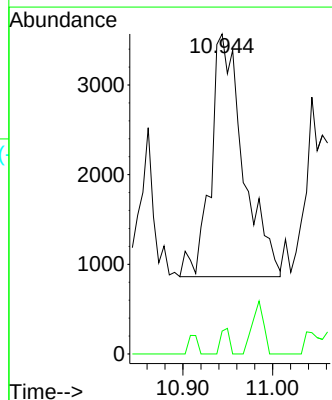
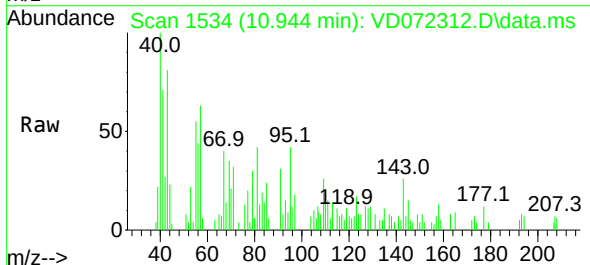
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

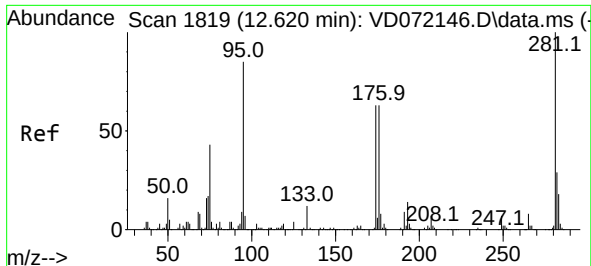
Tgt Ion: 98 Resp: 981462
Ion Ratio Lower Upper
98 100
100 66.3 52.4 78.6



#59
2-Hexanone
Concen: 2.886 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 43 Resp: 6785
Ion Ratio Lower Upper
43 100
58 2.8 25.3 75.9#

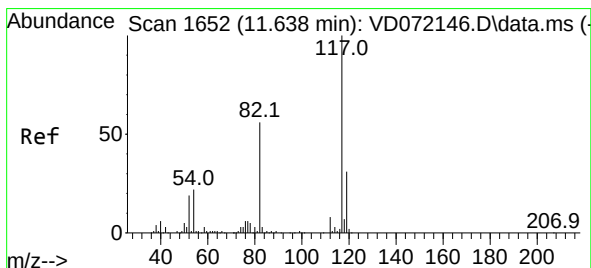
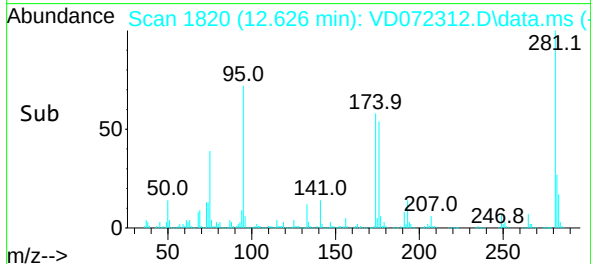
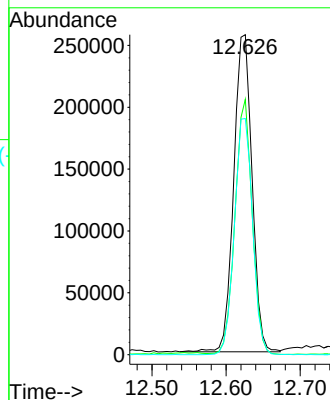
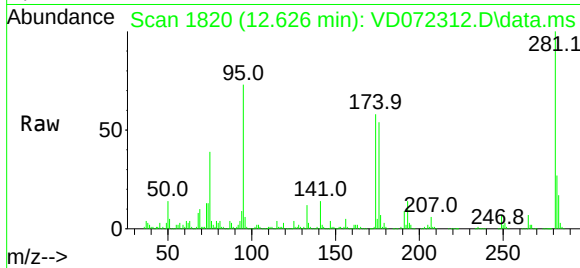




#62
4-Bromofluorobenzene
Concen: 56.922 ug/l
RT: 12.626 min Scan# 1819
Delta R.T. 0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

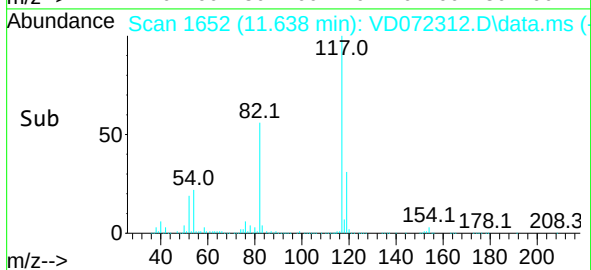
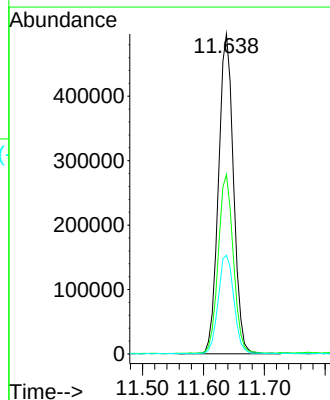
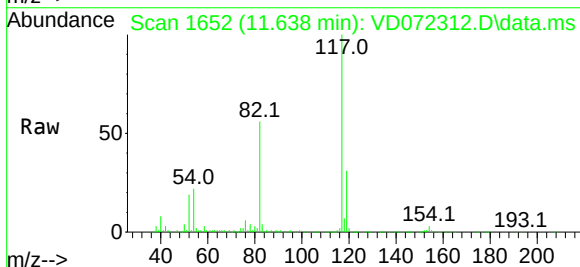
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

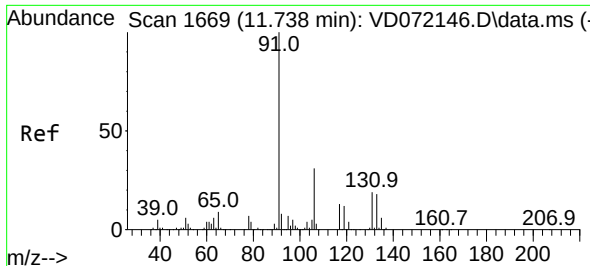
Tgt Ion: 95 Resp: 439397
Ion Ratio Lower Upper
95 100
174 75.8 0.0 152.8
176 74.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 117 Resp: 847931
Ion Ratio Lower Upper
117 100
82 55.9 45.3 67.9
119 30.8 26.6 40.0

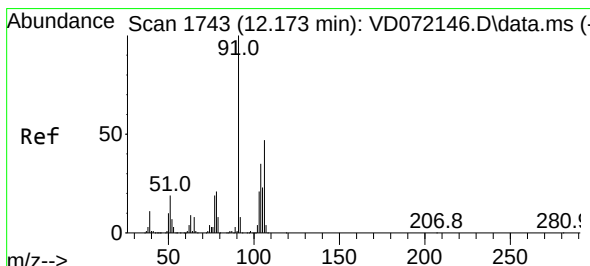
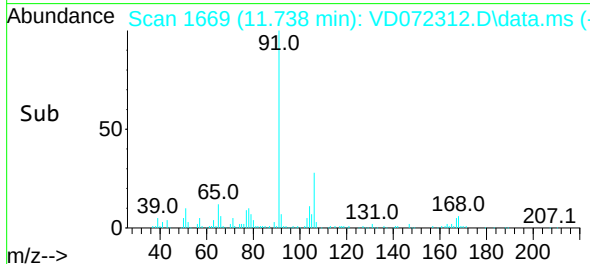
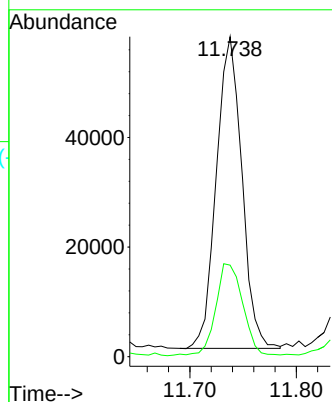
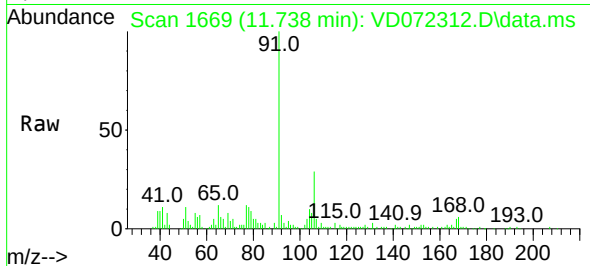




#67
Ethyl Benzene
Concen: 2.817 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

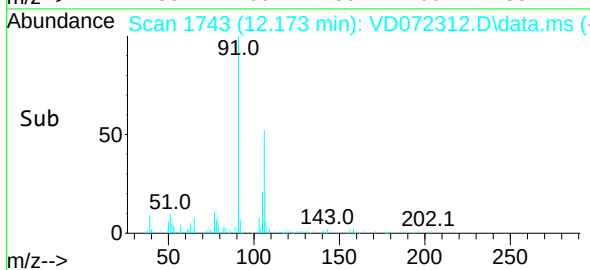
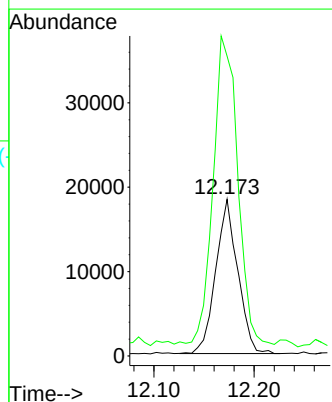
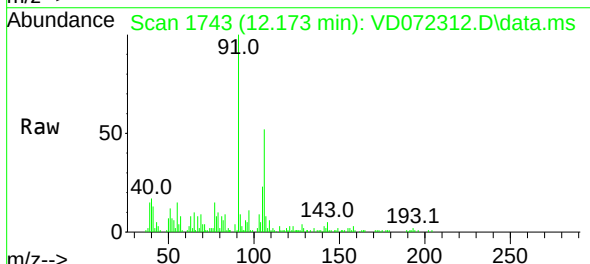
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

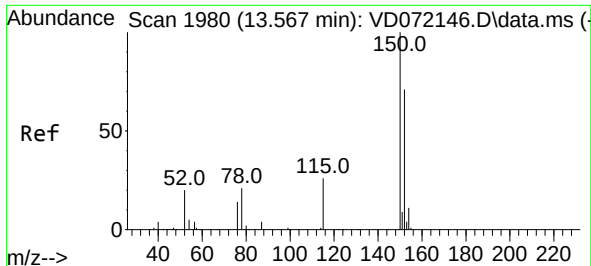
Tgt Ion: 91 Resp: 94566
Ion Ratio Lower Upper
91 100
106 28.8 24.2 36.4



#69
o-Xylene
Concen: 2.284 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 106 Resp: 27852
Ion Ratio Lower Upper
106 100
91 221.7 110.4 331.2

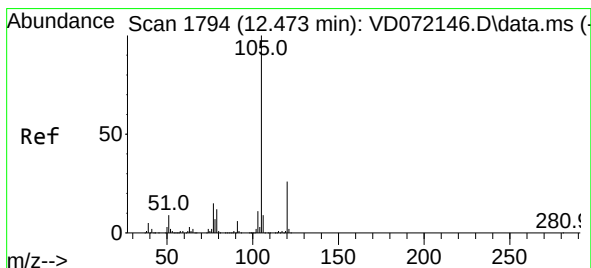
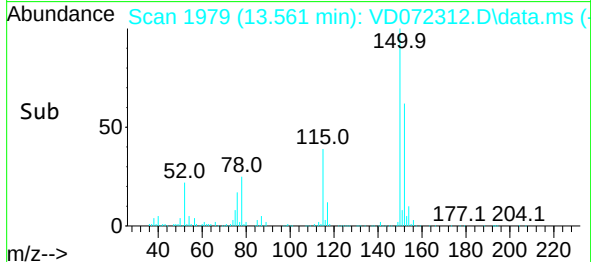
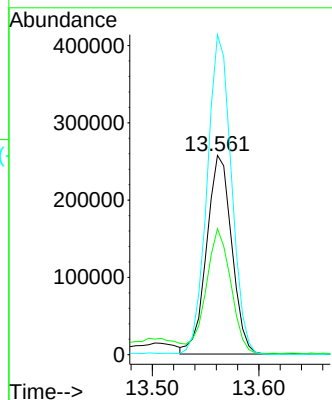
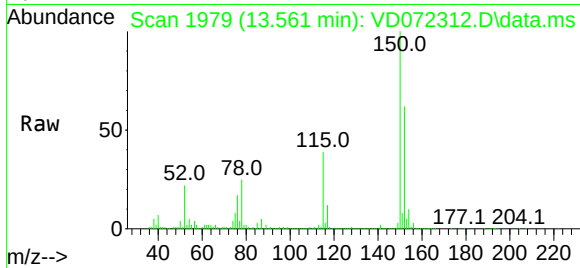




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

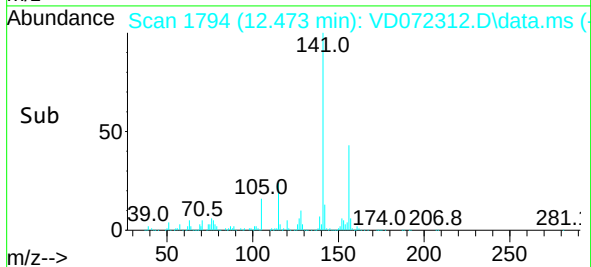
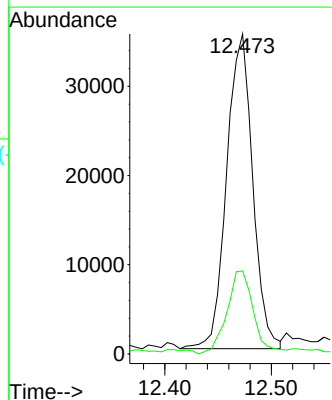
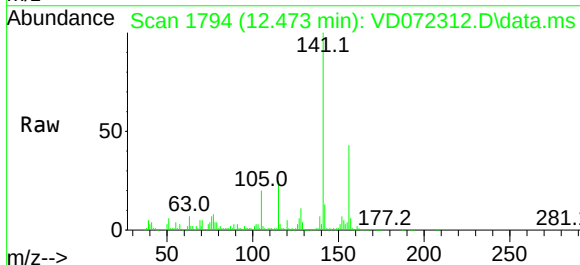
Instrument : MSVOA_D
ClientSampleId : SB-13-20220316-18.0-19.0

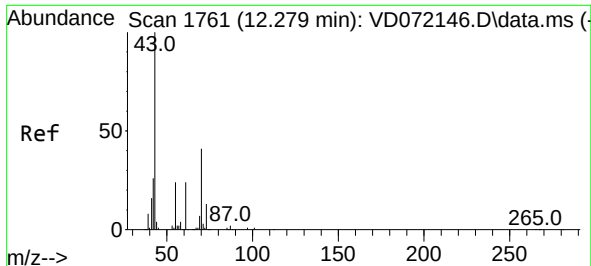
Tgt Ion:152 Resp: 422279
Ion Ratio Lower Upper
152 100
115 61.2 31.3 93.8
150 155.9 0.0 348.6



#73
Isopropylbenzene
Concen: 1.796 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion:105 Resp: 60101
Ion Ratio Lower Upper
105 100
120 26.9 13.0 38.9

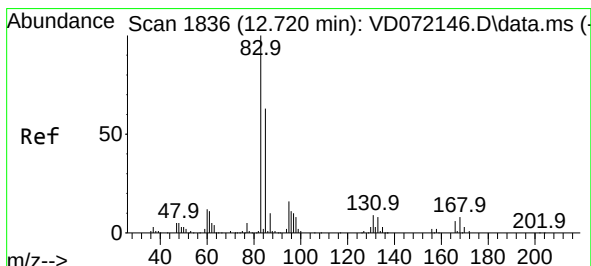
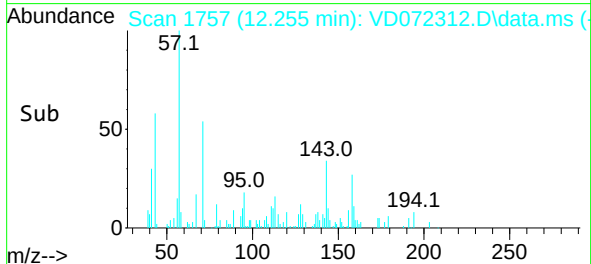
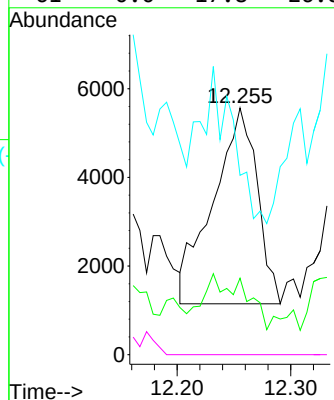
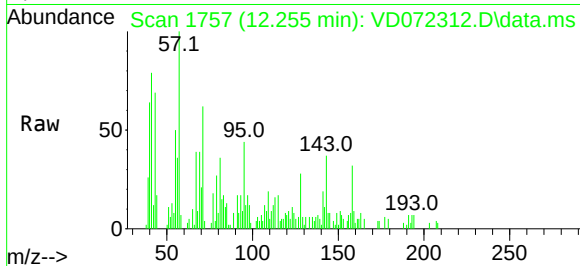




#74
N-amy1 acetate
Concen: 1.655 ug/l
RT: 12.255 min Scan# 11
Delta R.T. -0.023 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

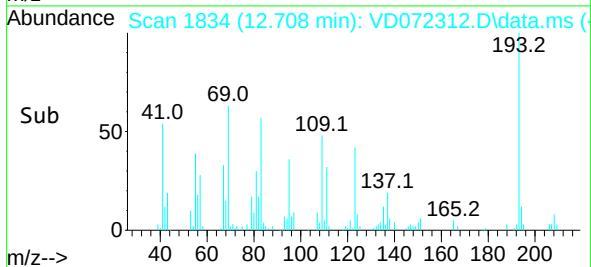
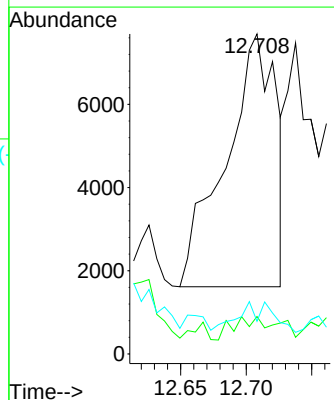
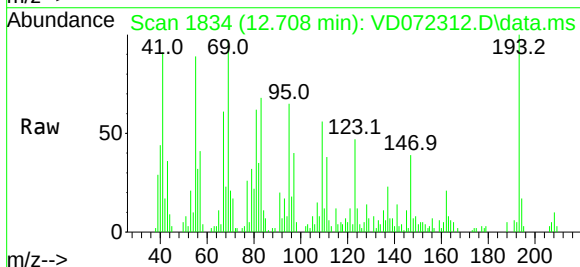
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

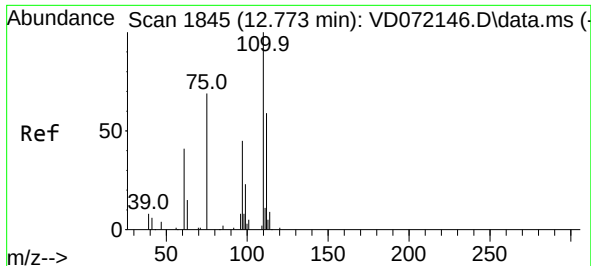
Tgt Ion: 43	Resp: 11901
Ion Ratio	Lower Upper
43	100
70	0.0 31.3 46.9#
55	0.0 20.0 30.0#
61	0.0 17.8 26.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 2.712 ug/l
RT: 12.708 min Scan# 1834
Delta R.T. -0.012 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion: 83	Resp: 16232
Ion Ratio	Lower Upper
83	100
131	6.1 5.0 14.9
85	2.2 32.6 98.0#

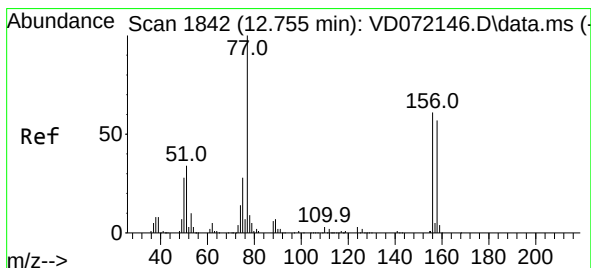
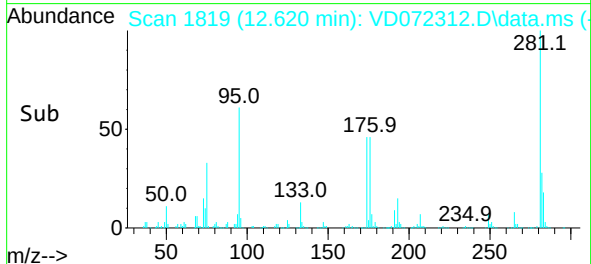
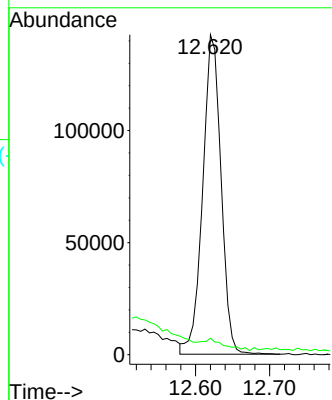
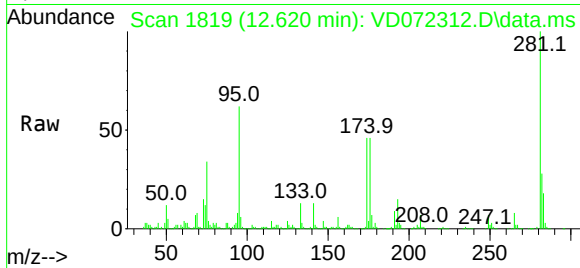




#76
1,2,3-Trichloropropane
Concen: 52.586 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

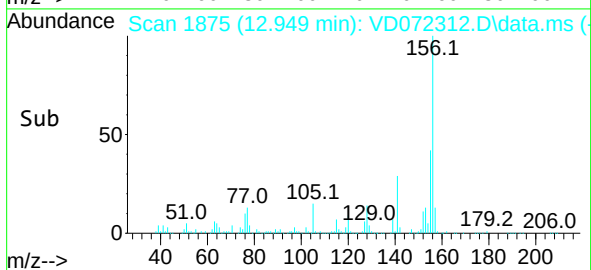
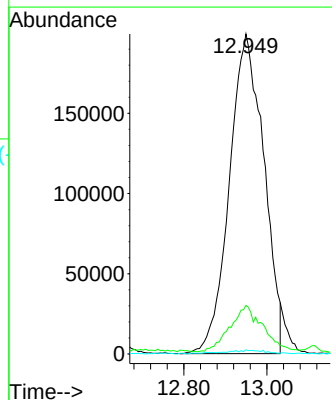
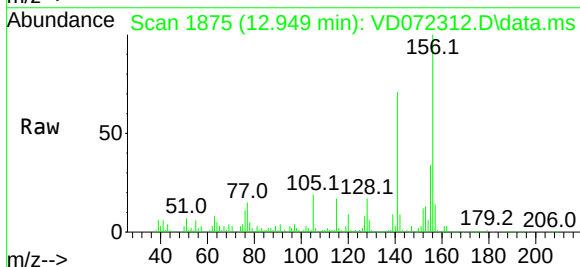
Instrument :
MSVOA_D
ClientSampleId :
SB-13-20220316-18.0-19.0

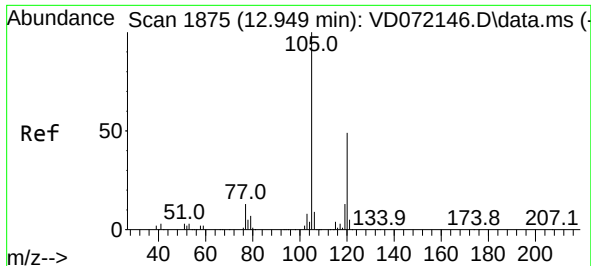
Tgt Ion: 75 Resp: 244952
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 151.723 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.194 min
Lab File: VD072312.D
Acq: 19 Mar 2022 02:42

Tgt Ion:156 Resp: 1142752
Ion Ratio Lower Upper
156 100
77 13.4 102.8 308.3#
158 0.5 48.7 146.1#

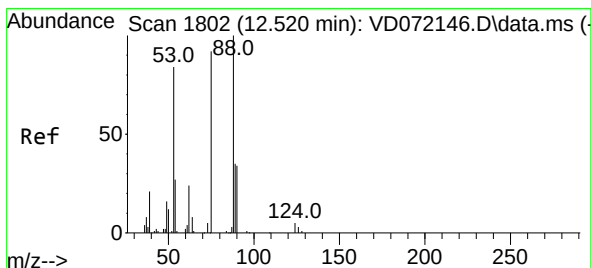
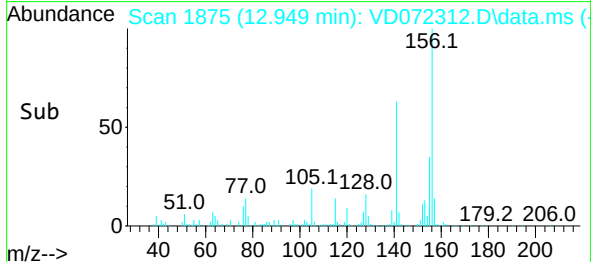
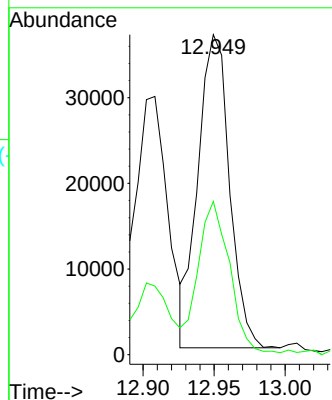
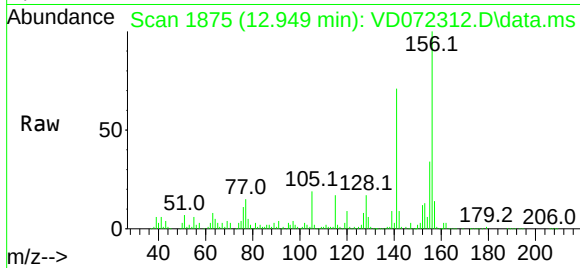




#80
 1,3,5-Trimethylbenzene
 Concen: 1.964 ug/l
 RT: 12.949 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VD072312.D
 Acq: 19 Mar 2022 02:42

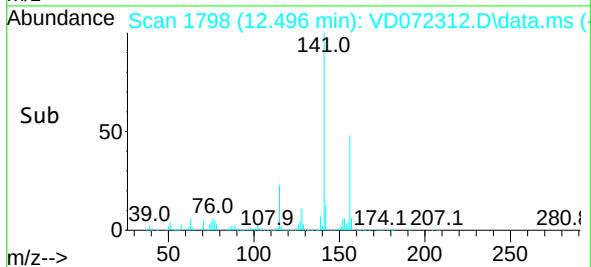
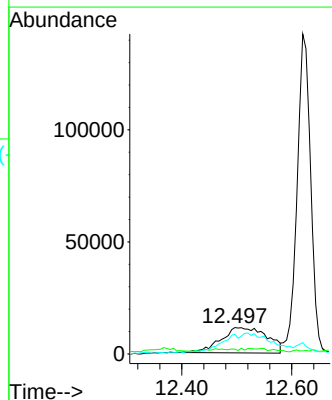
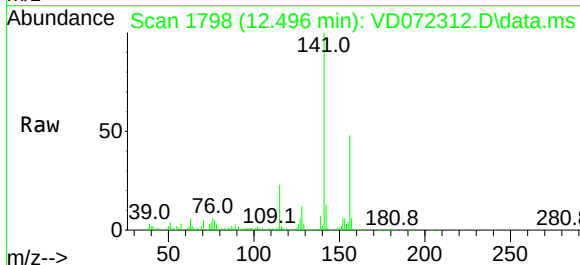
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-13-20220316-18.0-19.0

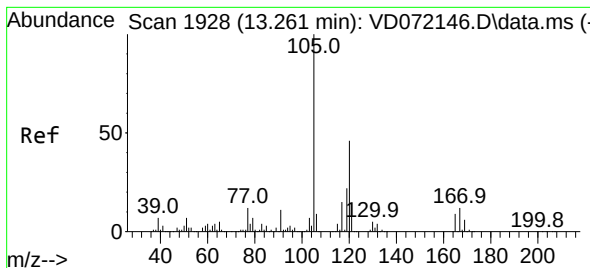
Tgt Ion:105 Resp: 56458
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 35.195 ug/l
 RT: 12.496 min Scan# 1798
 Delta R.T. -0.023 min
 Lab File: VD072312.D
 Acq: 19 Mar 2022 02:42

Tgt Ion: 75 Resp: 66077
 Ion Ratio Lower Upper
 75 100
 53 2.0 86.5 129.7#
 89 28.7 33.9 50.9#





#84

1,2,4-Trimethylbenzene

Concen: 3.952 ug/l

RT: 13.255 min Scan# 1928

Delta R.T. -0.006 min

Lab File: VD072312.D

Acq: 19 Mar 2022 02:42

Instrument :

MSVOA_D

ClientSampleId :

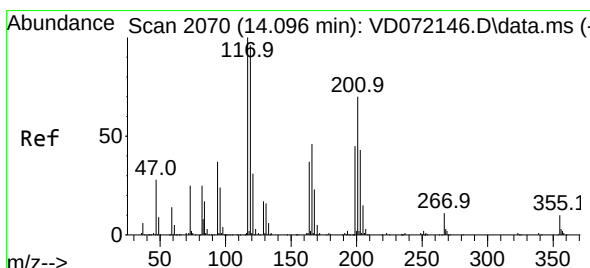
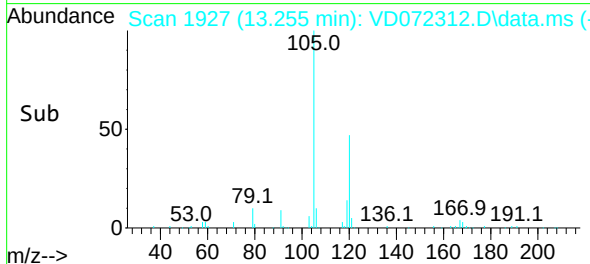
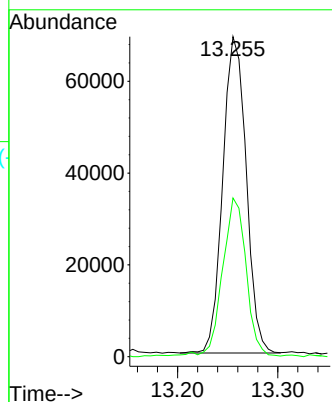
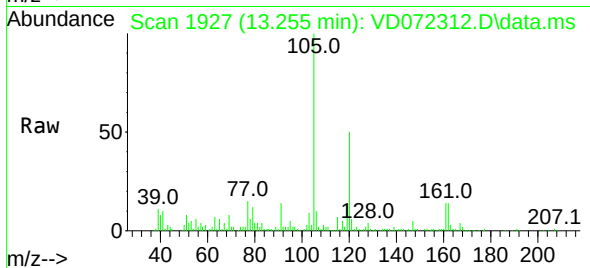
SB-13-20220316-18.0-19.0

Tgt Ion:105 Resp: 111933

Ion Ratio Lower Upper

105 100

120 51.2 22.3 66.8



#90

Hexachloroethane

Concen: 1.609 ug/l

RT: 14.102 min Scan# 2071

Delta R.T. 0.006 min

Lab File: VD072312.D

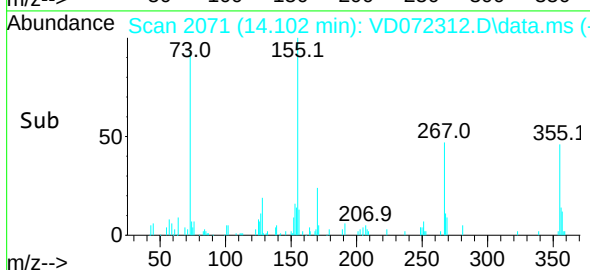
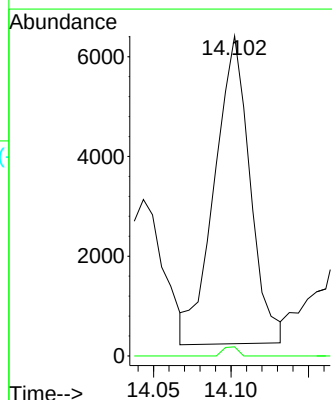
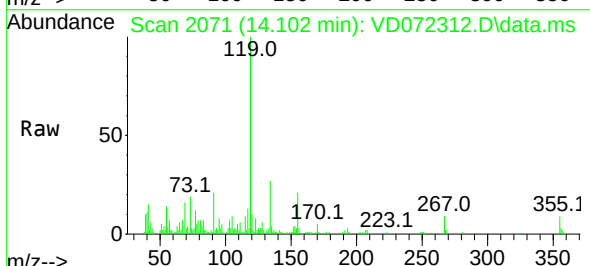
Acq: 19 Mar 2022 02:42

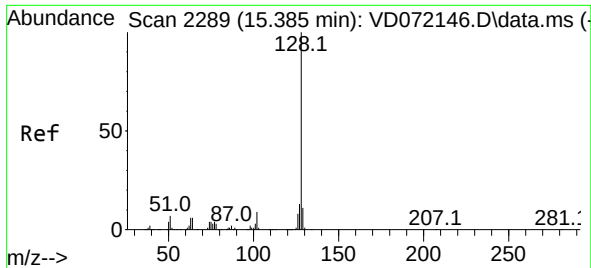
Tgt Ion:117 Resp: 9823

Ion Ratio Lower Upper

117 100

201 1.3 33.4 100.2#





#95

Naphthalene

Concen: 54.464 ug/l

RT: 15.385 min Scan# 21

Delta R.T. 0.000 min

Lab File: VD072312.D

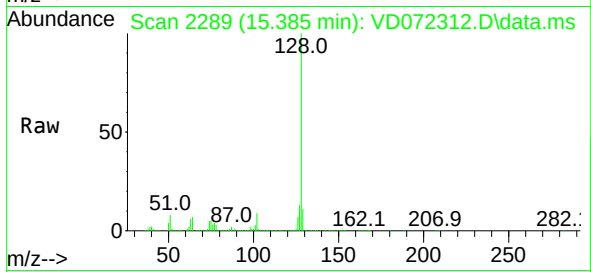
Acq: 19 Mar 2022 02:42

Instrument :

MSVOA_D

ClientSampleId :

SB-13-20220316-18.0-19.0



Tgt Ion:128 Resp: 855440

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

129 11.1 8.4 12.6

