

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014723.D
 Acq On : 20 Jul 2023 16:04
 Operator : SY/MD
 Sample : 03677-01
 Misc : 4.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SWC-1

Quant Time: Jul 21 01:31:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

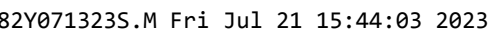
Internal Standards						
1) Pentafluorobenzene	7.789	168	222837	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	338724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	195703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	43132	50.000	ug/l	# 0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	93821	36.947	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	73.900%
35) Dibromofluoromethane	7.716	113	99017	45.921	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.840%
50) Toluene-d8	10.179	98	404935	50.938	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.880%
62) 4-Bromofluorobenzene	12.477	95	105620	34.650	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	69.300%

Target Compounds						Qvalue
16) Acetone	3.936	43	77886	96.792	ug/l	# 79
25) 2-Butanone	6.978	43	32077	27.248	ug/l	# 64
31) Cyclohexane	7.765	56	798014	189.314	ug/l	# 60
39) Methylcyclohexane	9.179	83	1486202	353.772	ug/l	95
40) Benzene	8.161	78	13109	1.429	ug/l	94
44) Trichloroethene	8.935	130	7862	3.064	ug/l	97
52) Toluene	10.240	92	2164552	368.847	ug/l	93
64) Tetrachloroethene	10.715	164	46818	29.745	ug/l	93
67) Ethyl Benzene	11.593	91	3851717	511.540	ug/l	96
68) m/p-Xylenes	11.697	106	3508439	1220.642	ug/l	94
69) o-Xylene	12.026	106	2977825	1063.681	ug/l	96
73) Isopropylbenzene	12.325	105	824407	244.106	ug/l	100
78) n-propylbenzene	12.666	91	2438356	599.159	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	3927039	1392.322	ug/l	98
84) 1,2,4-Trimethylbenzene	13.117	105	6201002	2240.258	ug/l	96
85) sec-Butylbenzene	13.251	105	274311	74.740	ug/l	# 54
86) p-Isopropyltoluene	13.367	119	166969	55.719	ug/l	98
89) n-Butylbenzene	13.696	91	503567	172.725	ug/l	# 66
95) Naphthalene	15.233	128	548799	269.945	ug/l	# 94

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
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QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

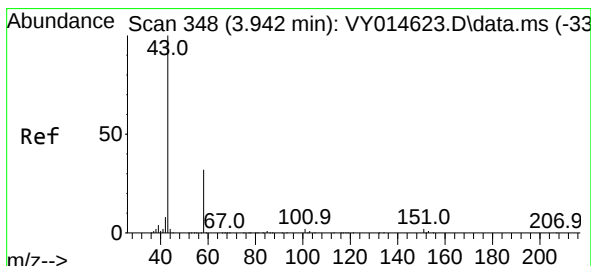
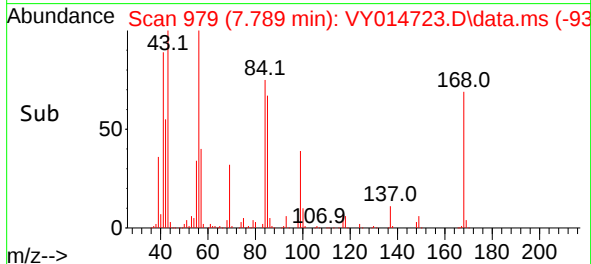
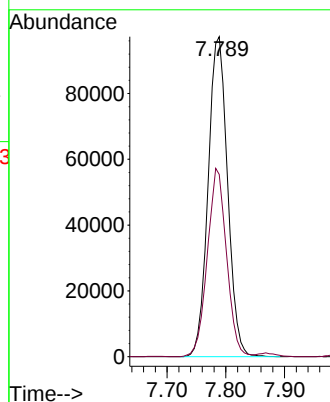
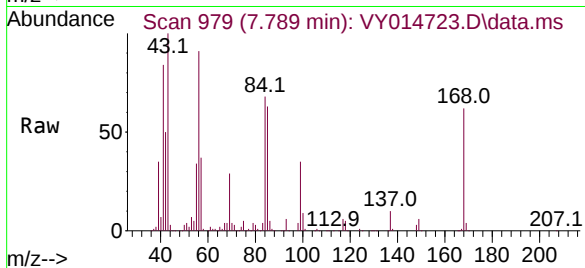




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

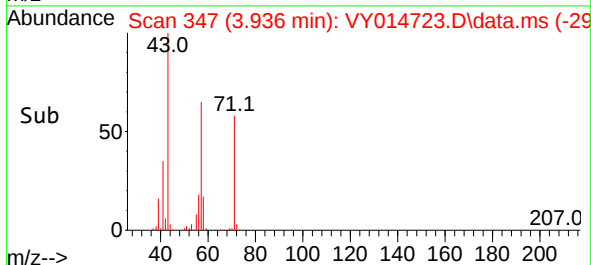
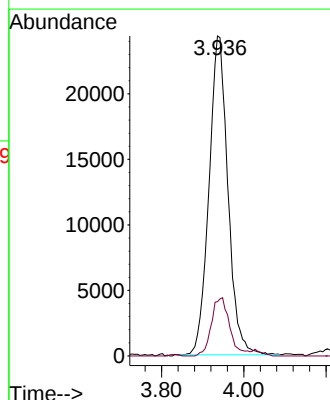
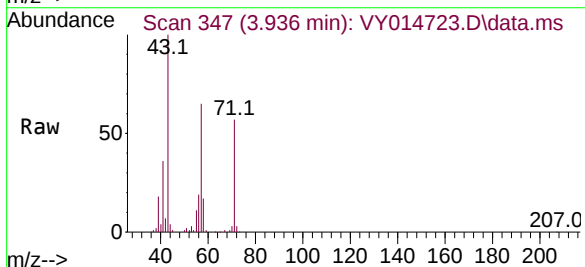
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

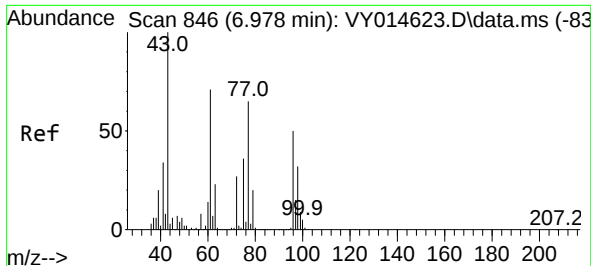
Tgt Ion:168 Resp: 222837
Ion Ratio Lower Upper
168 100
99 57.0 43.4 65.0



#16
Acetone
Concen: 96.792 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion: 43 Resp: 77886
Ion Ratio Lower Upper
43 100
58 17.0 22.7 34.1#

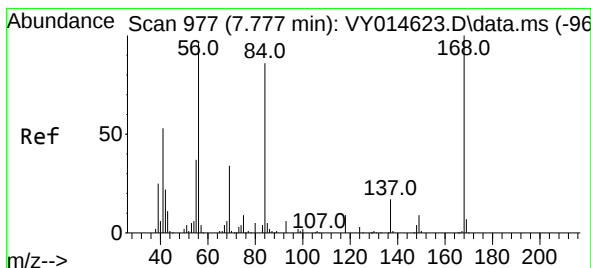
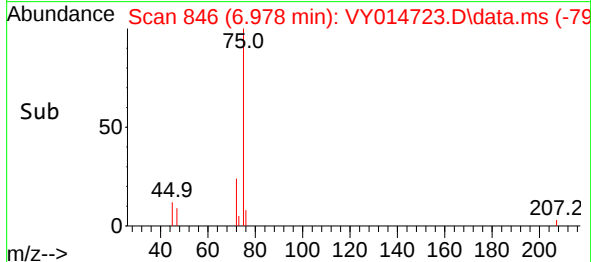
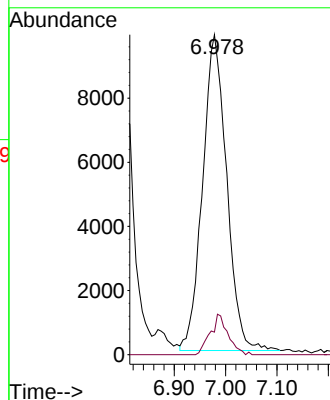
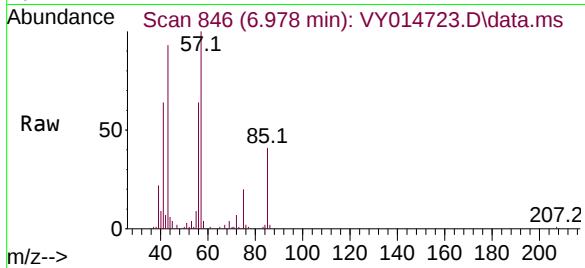




#25
2-Butanone
Concen: 27.248 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

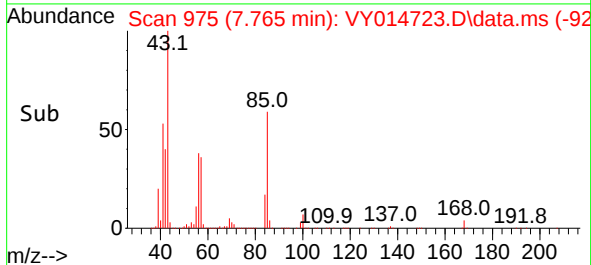
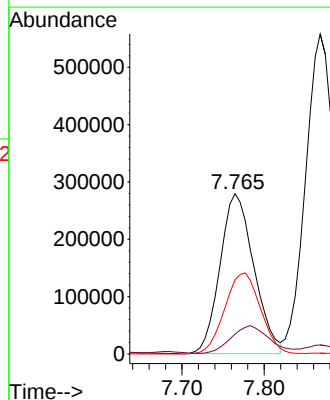
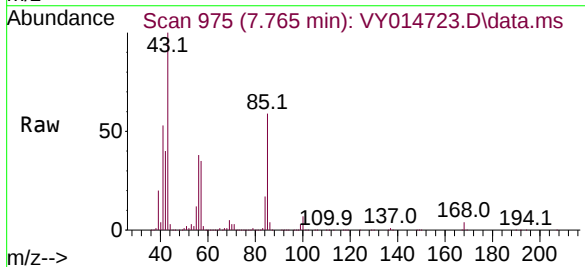
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

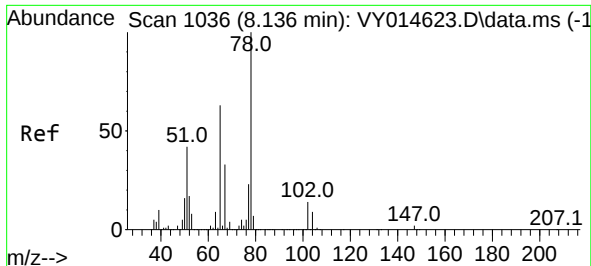
Tgt Ion: 43 Resp: 32077
Ion Ratio Lower Upper
43 100
72 7.2 20.5 30.7#



#31
Cyclohexane
Concen: 189.314 ug/l
RT: 7.765 min Scan# 975
Delta R.T. -0.013 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion: 56 Resp: 798014
Ion Ratio Lower Upper
56 100
69 11.4 27.8 41.6#
84 46.5 66.4 99.6#

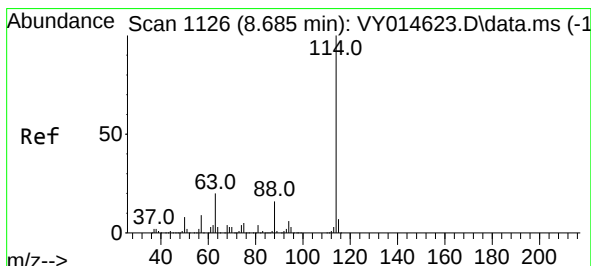
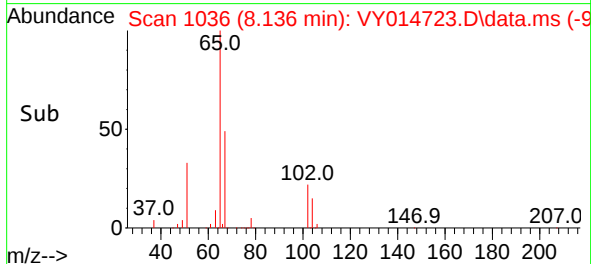
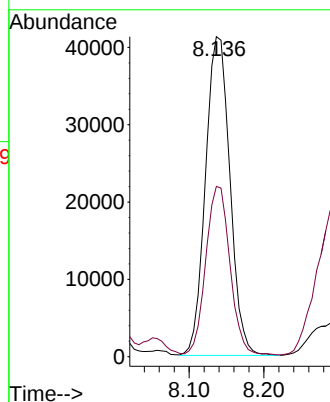
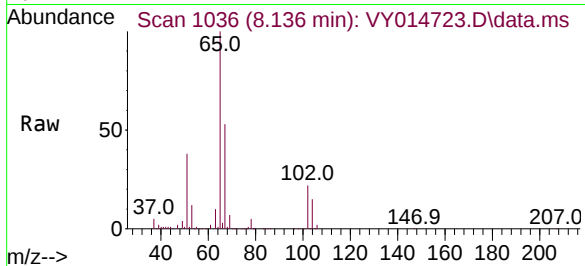




#33
 1,2-Dichloroethane-d4
 Concen: 36.947 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY014723.D
 Acq: 20 Jul 2023 16:04

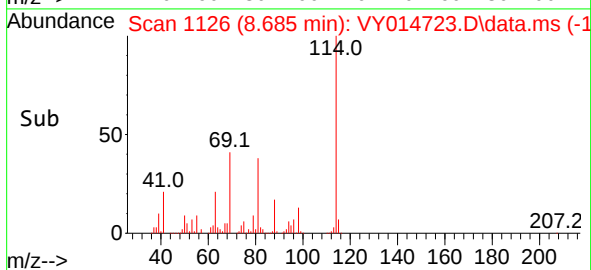
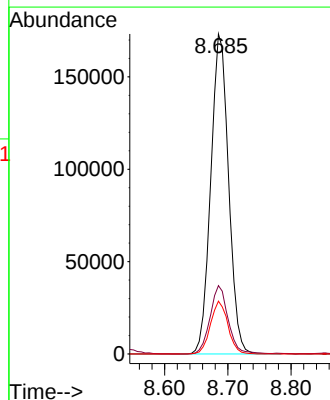
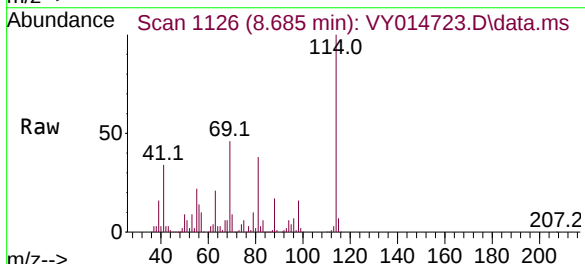
Instrument :
 MSVOA_Y
 ClientSampleId :
 SWC-1

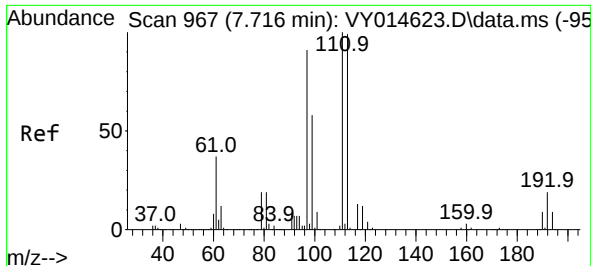
Tgt Ion: 65 Resp: 93821
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY014723.D
 Acq: 20 Jul 2023 16:04

Tgt Ion: 114 Resp: 338724
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.4
 88 16.5 0.0 30.6

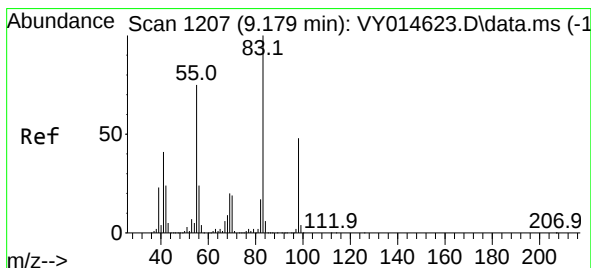
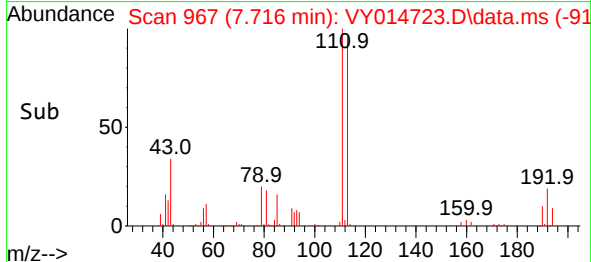
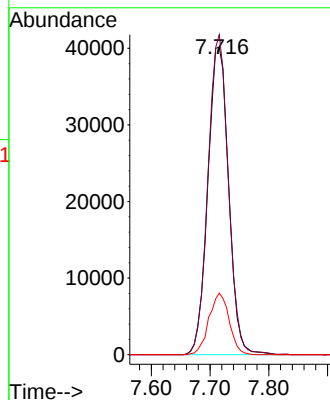
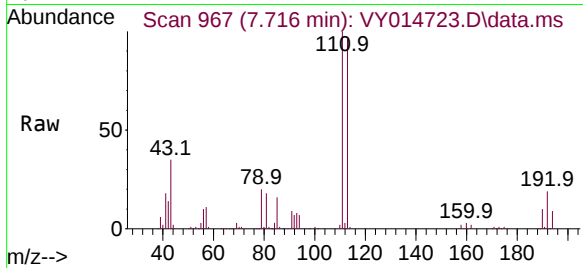




#35
Dibromofluoromethane
Concen: 45.921 ug/l
RT: 7.716 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

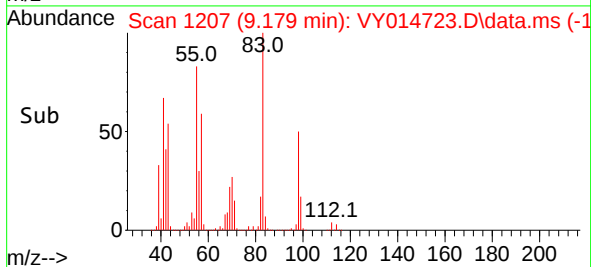
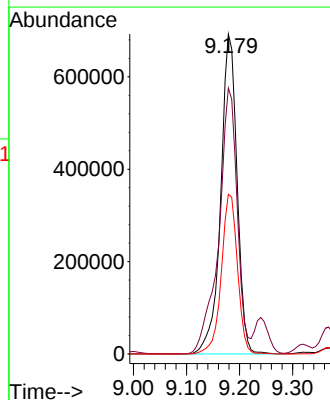
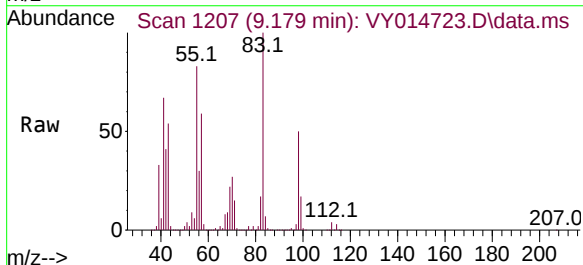
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

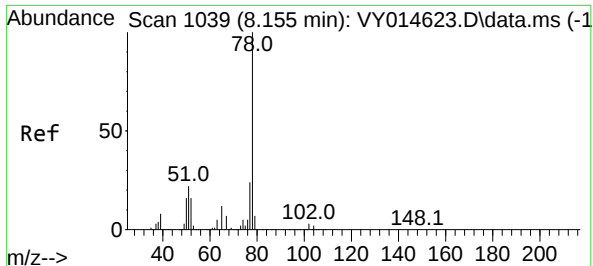
Tgt Ion:113 Resp: 99017
Ion Ratio Lower Upper
113 100
111 101.6 81.3 121.9
192 19.4 16.9 25.3



#39
Methylcyclohexane
Concen: 353.772 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion: 83 Resp: 1486202
Ion Ratio Lower Upper
83 100
55 83.1 63.0 94.4
98 49.9 37.4 56.2

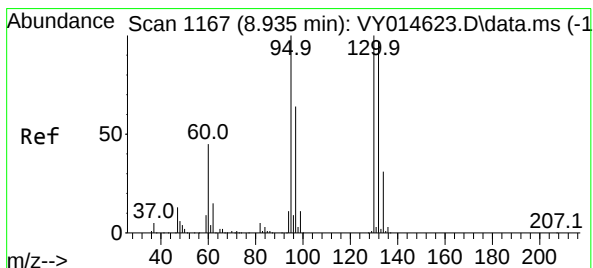
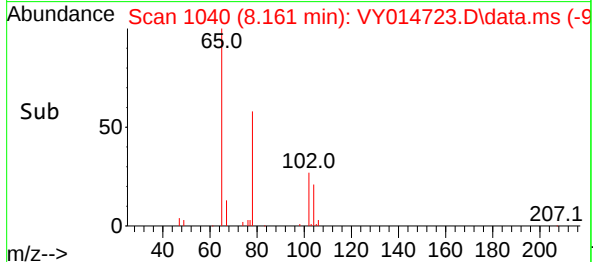
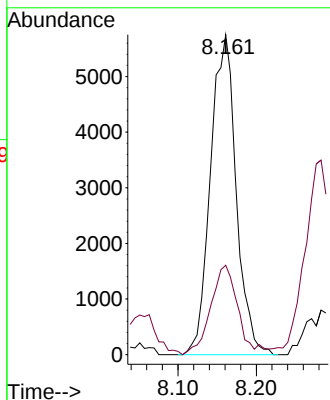
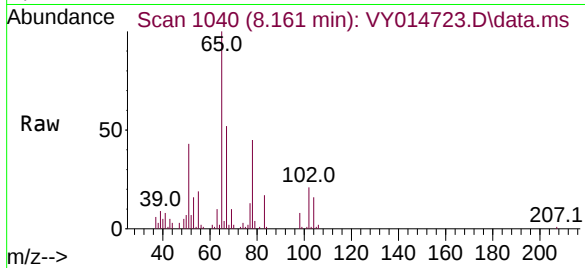




#40
Benzene
Concen: 1.429 ug/l
RT: 8.161 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

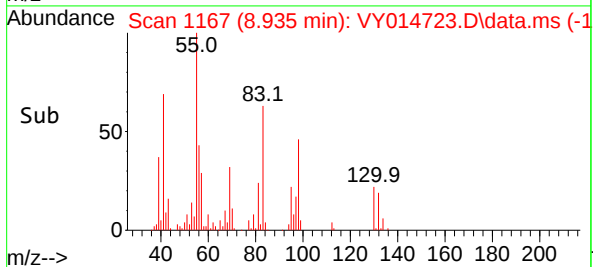
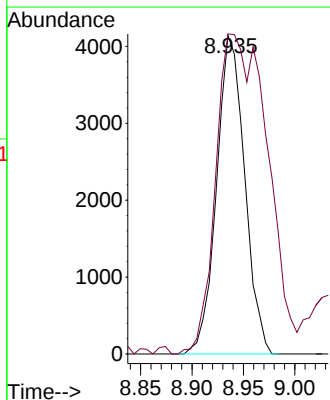
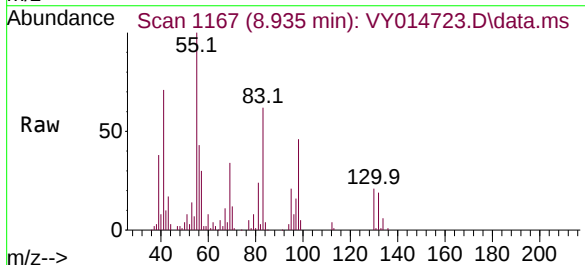
Instrument :
MSVOA_Y
ClientSampleId :
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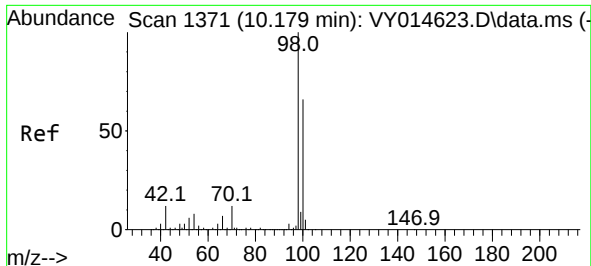
Tgt Ion: 78 Resp: 13109
Ion Ratio Lower Upper
78 100
77 26.9 19.0 28.6



#44
Trichloroethene
Concen: 3.064 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion:130 Resp: 7862
Ion Ratio Lower Upper
130 100
95 100.6 0.0 196.0

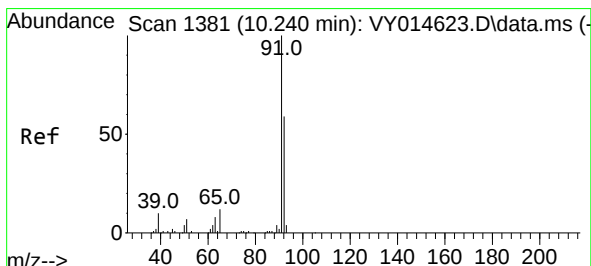
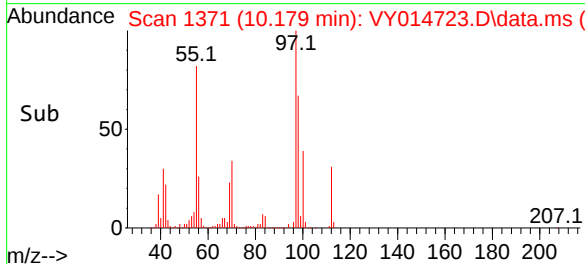
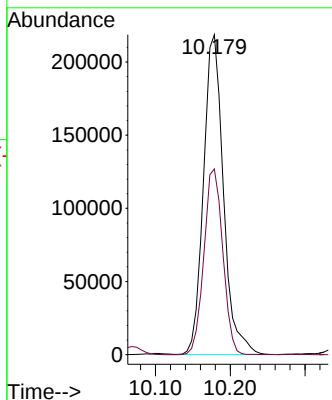
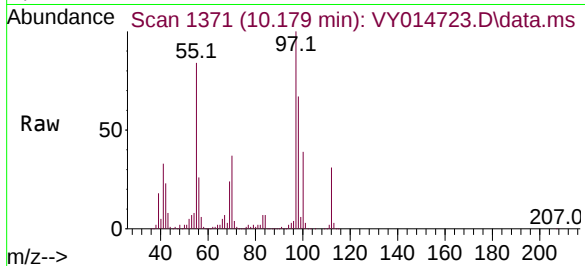




#50
Toluene-d8
Concen: 50.938 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

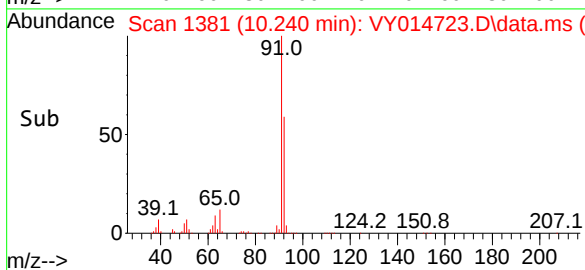
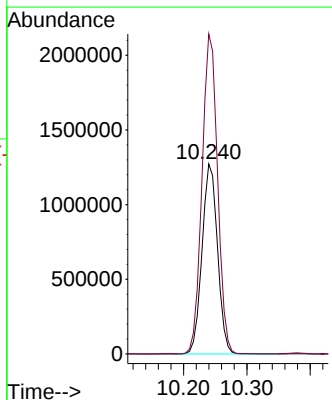
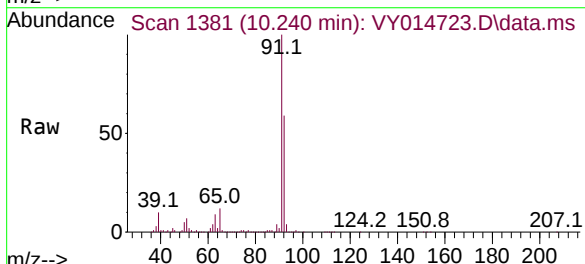
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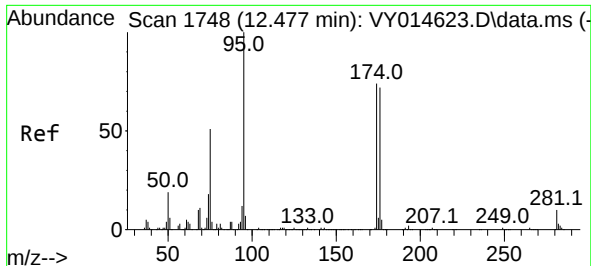
Tgt Ion: 98 Resp: 404935
Ion Ratio Lower Upper
98 100
100 54.9 50.1 75.1



#52
Toluene
Concen: 368.847 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion: 92 Resp: 2164552
Ion Ratio Lower Upper
92 100
91 169.4 143.8 215.6





#62

4-Bromofluorobenzene

Concen: 34.650 ug/l

RT: 12.477 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY014723.D

Acq: 20 Jul 2023 16:04

Instrument :

MSVOA_Y

ClientSampleId :

SWC-1

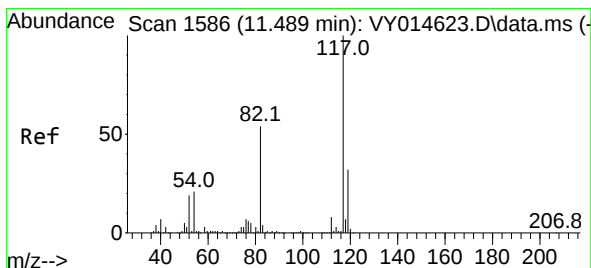
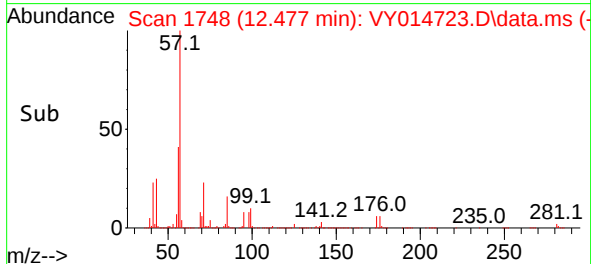
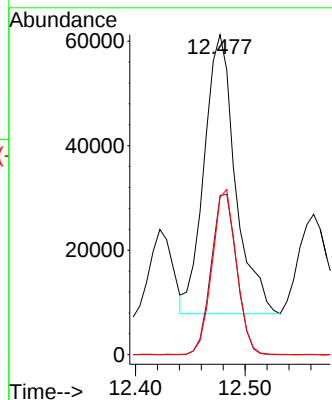
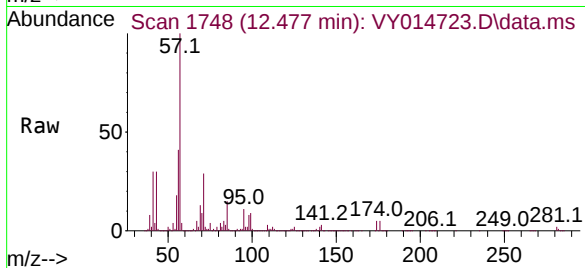
Tgt Ion: 95 Resp: 105620

Ion Ratio Lower Upper

95 100

174 47.2 0.0 178.2

176 46.3 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY014723.D

Acq: 20 Jul 2023 16:04

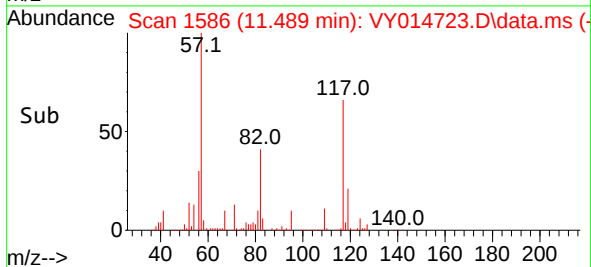
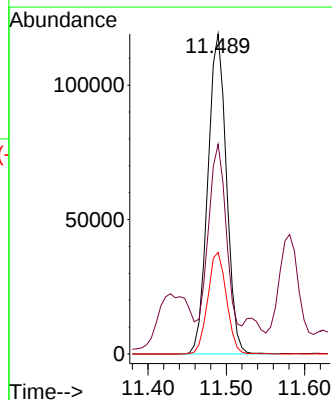
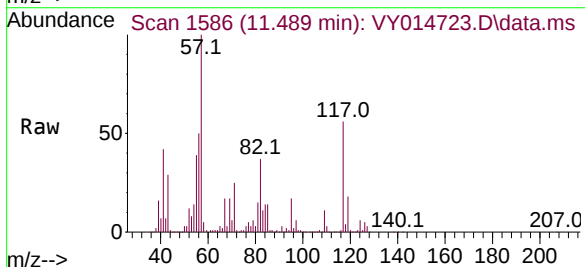
Tgt Ion: 117 Resp: 195703

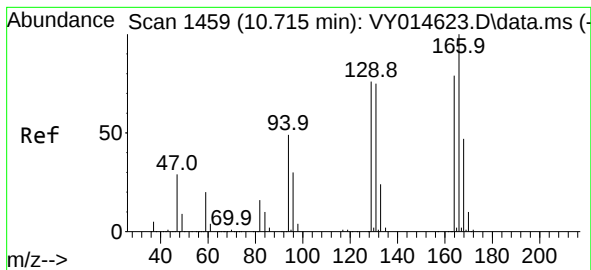
Ion Ratio Lower Upper

117 100

82 47.7 43.4 65.0

119 31.7 26.3 39.5





#64

Tetrachloroethene

Concen: 29.745 ug/l

RT: 10.715 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VY014723.D

Acq: 20 Jul 2023 16:04

Instrument :

MSVOA_Y

ClientSampleId :

SWC-1

Tgt Ion:164 Resp: 46818

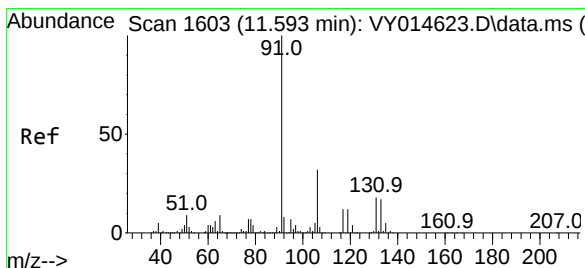
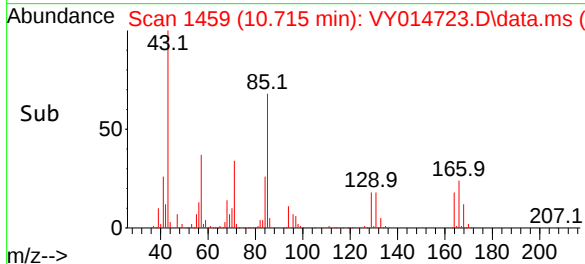
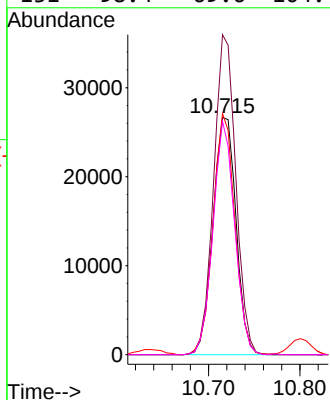
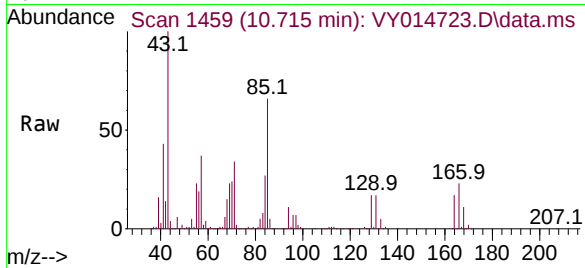
Ion Ratio Lower Upper

164 100

166 134.9 103.0 154.6

129 101.7 77.2 115.8

131 98.4 69.6 104.4



#67

Ethyl Benzene

Concen: 511.540 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY014723.D

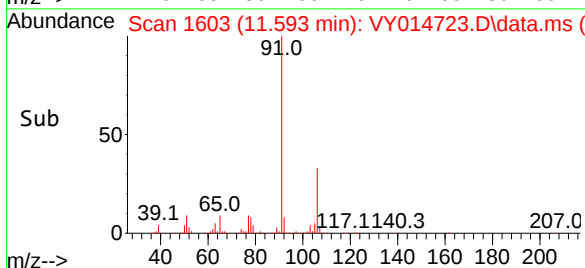
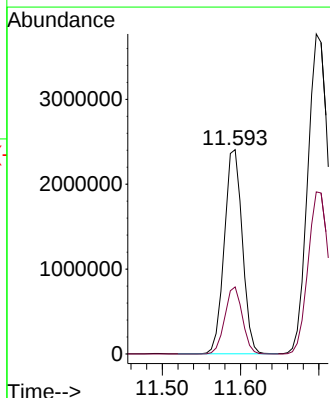
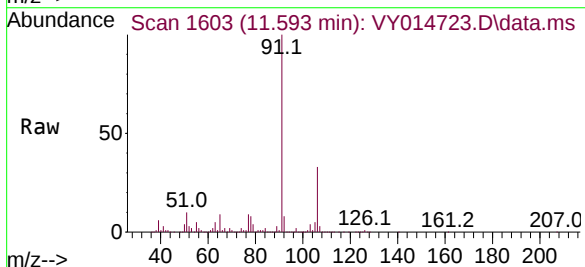
Acq: 20 Jul 2023 16:04

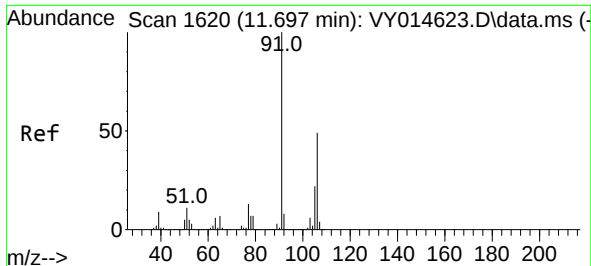
Tgt Ion: 91 Resp: 3851717

Ion Ratio Lower Upper

91 100

106 32.8 24.6 36.8

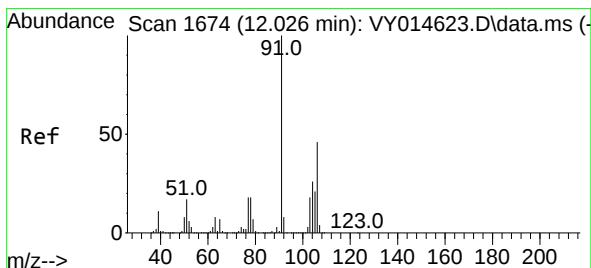
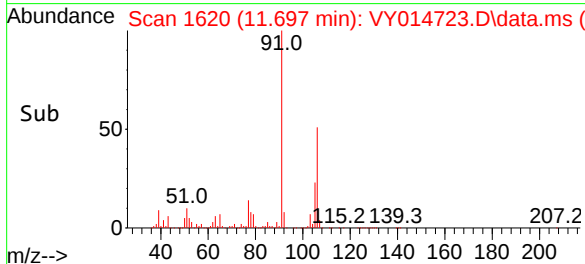
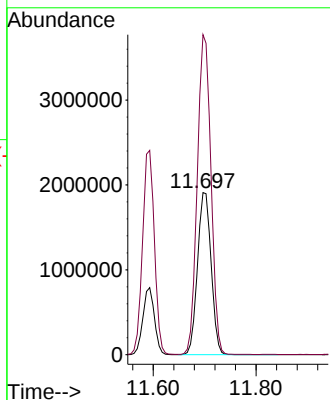
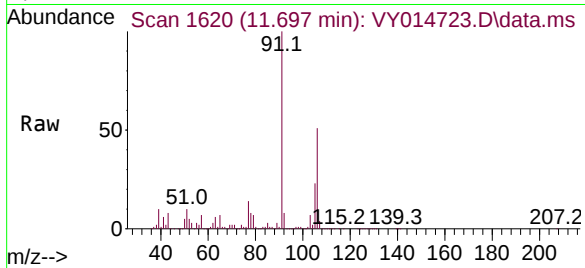




#68
m/p-Xylenes
Concen: 1220.642 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

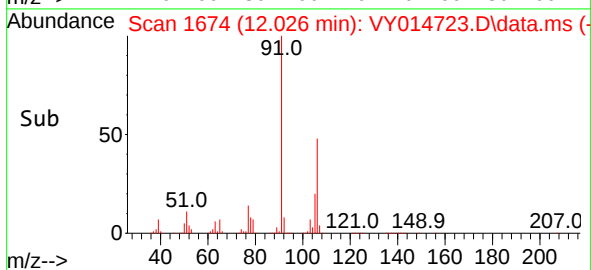
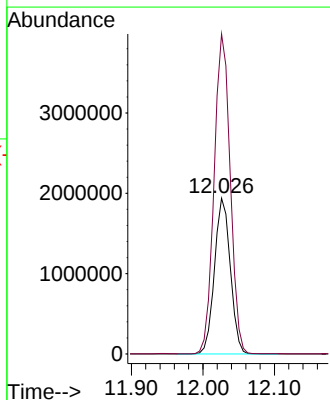
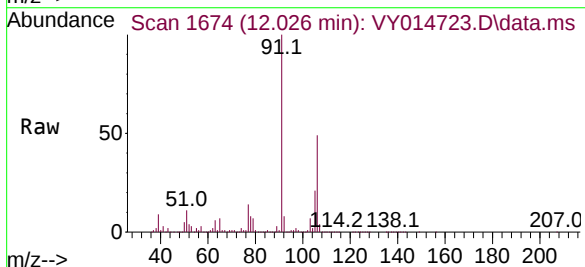
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

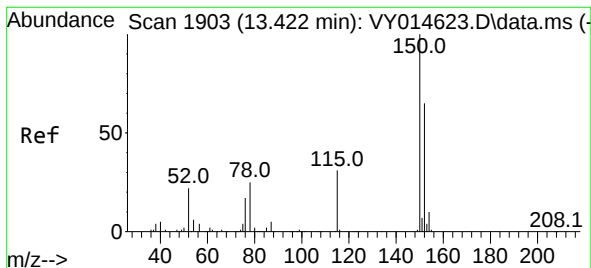
Tgt Ion:106 Resp: 3508439
Ion Ratio Lower Upper
106 100
91 198.1 166.1 249.1



#69
o-Xylene
Concen: 1063.681 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion:106 Resp: 2977825
Ion Ratio Lower Upper
106 100
91 209.2 108.1 324.3

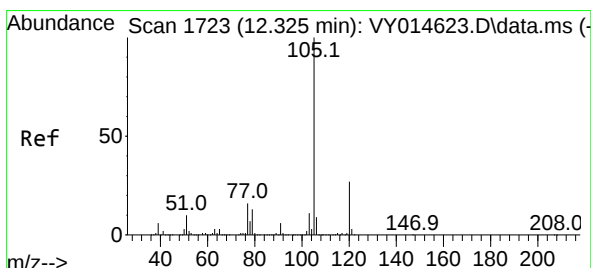
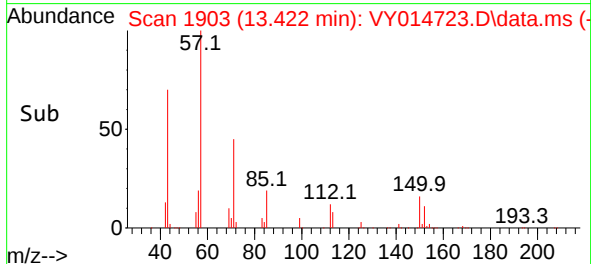
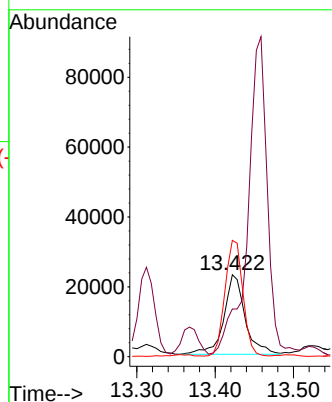
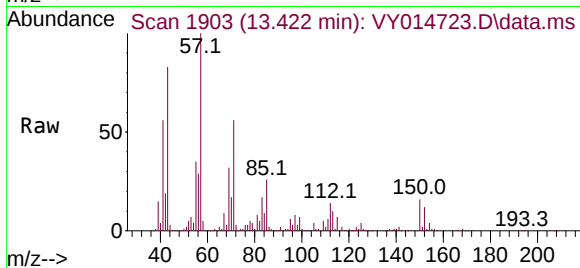




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

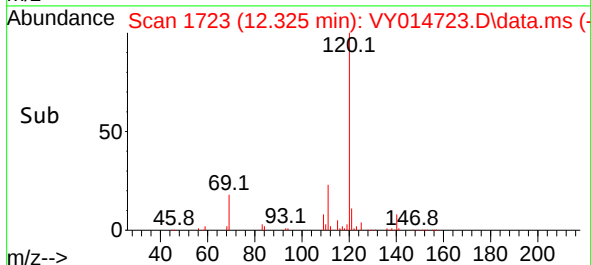
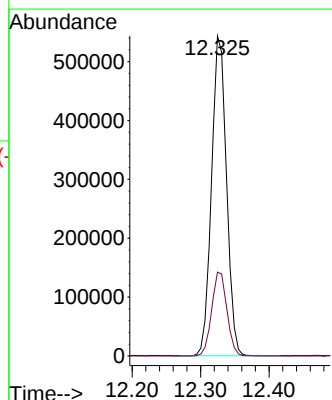
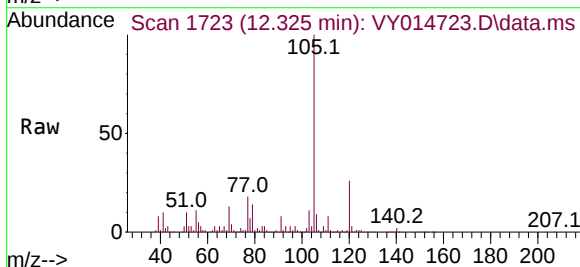
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

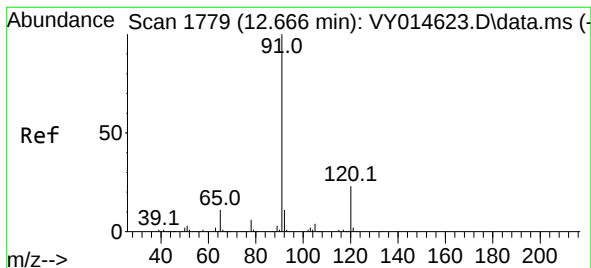
Tgt Ion:152 Resp: 43132
Ion Ratio Lower Upper
152 100
115 0.0 28.8 86.5#
150 122.0 0.0 348.8



#73
Isopropylbenzene
Concen: 244.106 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion:105 Resp: 824407
Ion Ratio Lower Upper
105 100
120 26.7 13.3 39.9





#78

n-propylbenzene

Concen: 599.159 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY014723.D

Acq: 20 Jul 2023 16:04

Instrument :

MSVOA_Y

ClientSampleId :

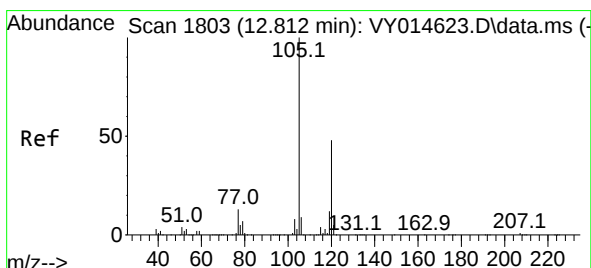
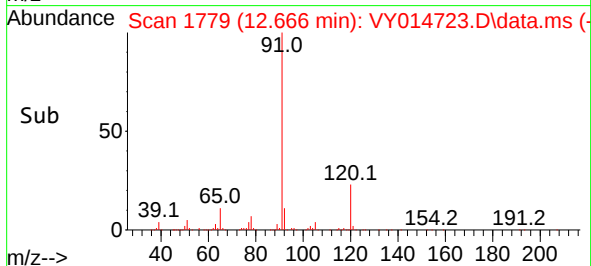
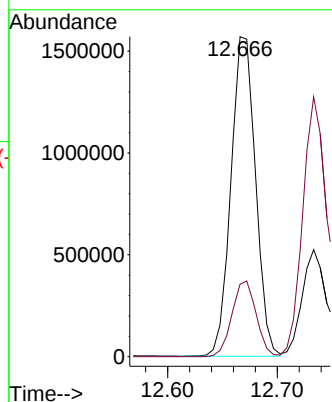
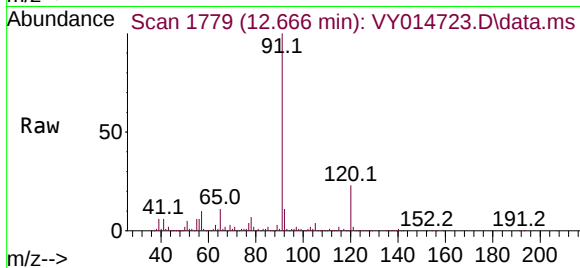
SWC-1

Tgt Ion: 91 Resp: 2438356

Ion Ratio Lower Upper

91 100

120 23.4 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 1392.322 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY014723.D

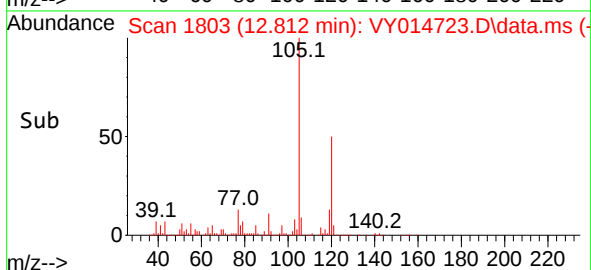
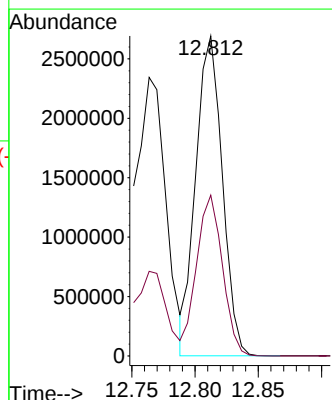
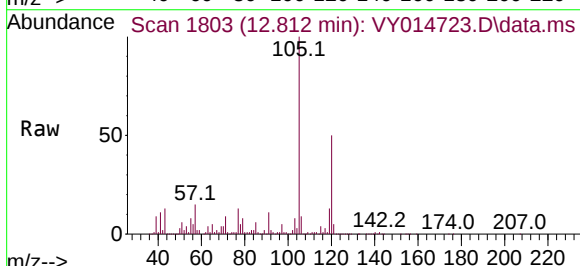
Acq: 20 Jul 2023 16:04

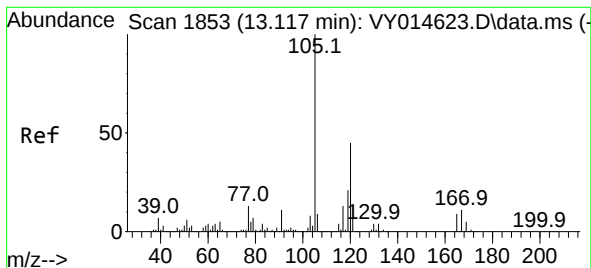
Tgt Ion:105 Resp: 3927039

Ion Ratio Lower Upper

105 100

120 49.3 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 2240.258 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY014723.D

Acq: 20 Jul 2023 16:04

Instrument :

MSVOA_Y

ClientSampleId :

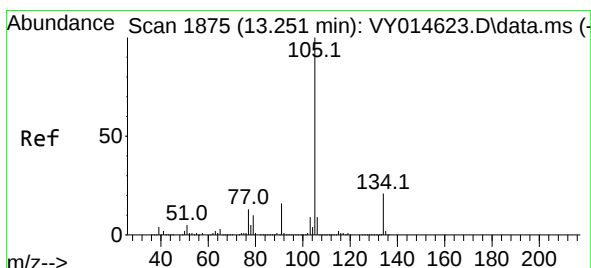
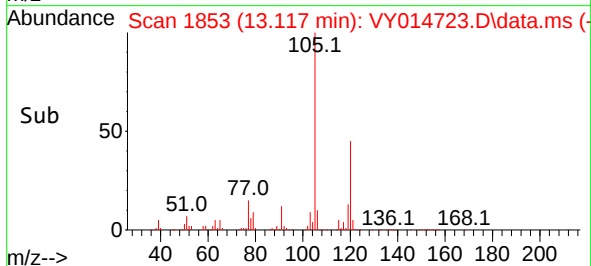
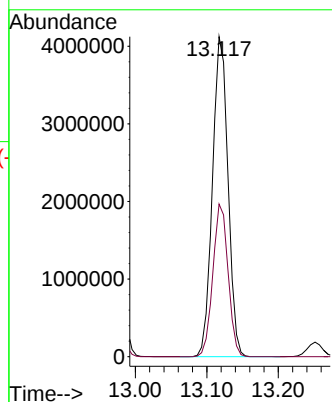
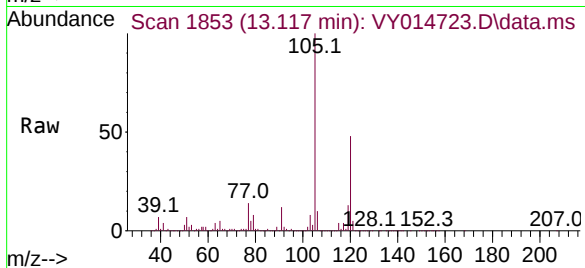
SWC-1

Tgt Ion:105 Resp: 6201002

Ion Ratio Lower Upper

105 100

120 46.9 22.2 66.6



#85

sec-Butylbenzene

Concen: 74.740 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY014723.D

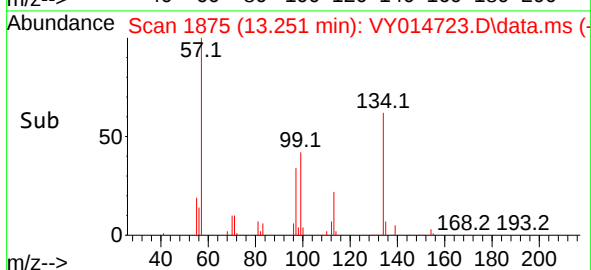
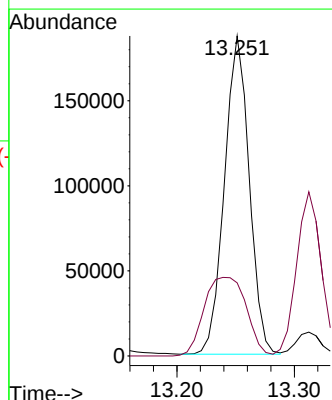
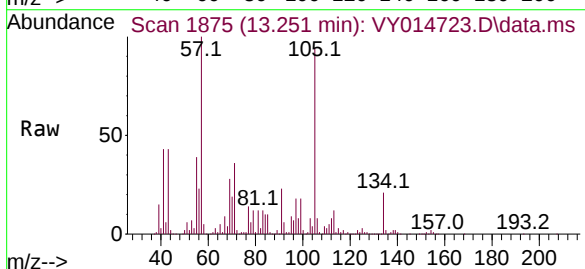
Acq: 20 Jul 2023 16:04

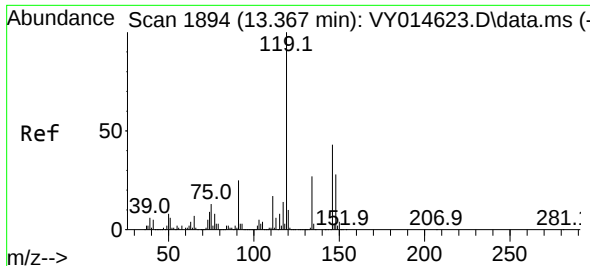
Tgt Ion:105 Resp: 274311

Ion Ratio Lower Upper

105 100

134 41.9 10.2 30.6#

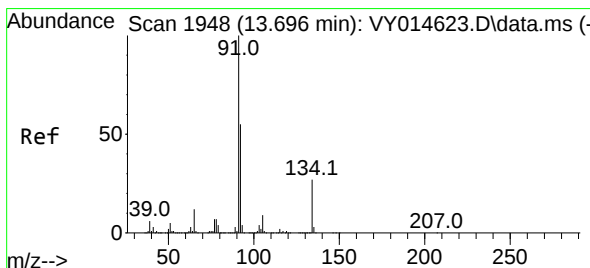
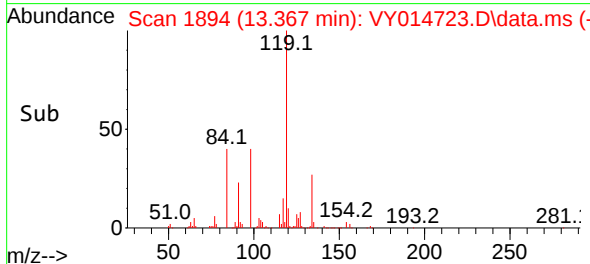
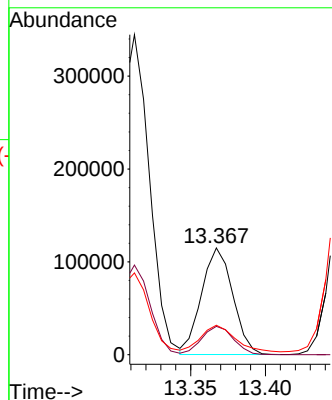
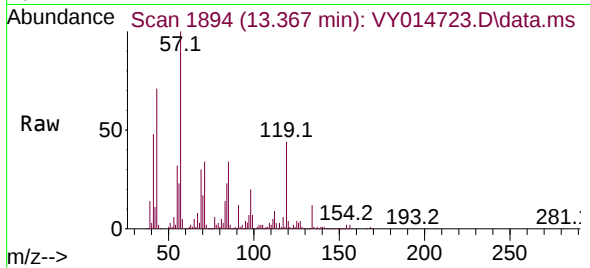




#86
p-Isopropyltoluene
Concen: 55.719 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

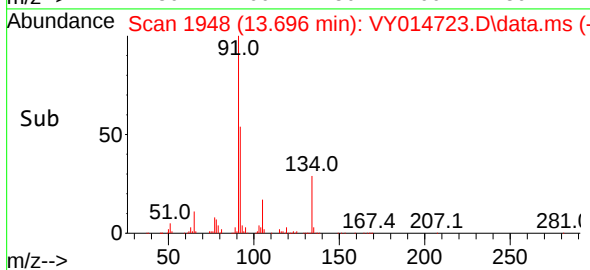
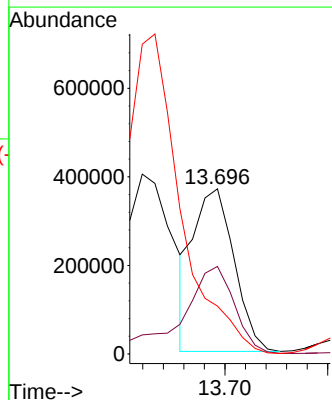
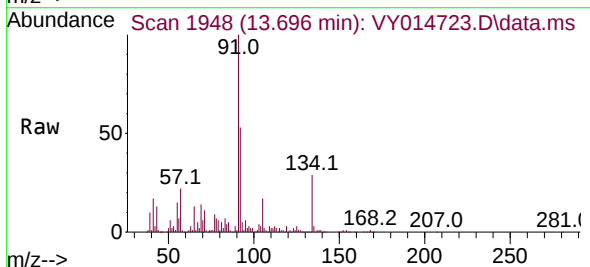
Instrument :
MSVOA_Y
ClientSampleId :
SWC-1

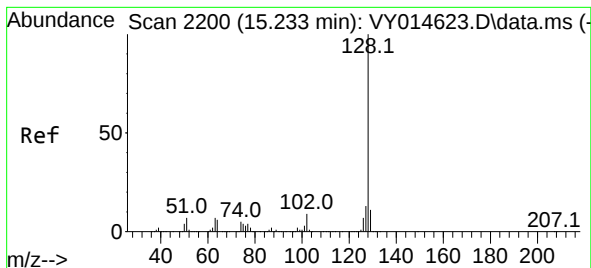
Tgt Ion:119 Resp: 166969
Ion Ratio Lower Upper
119 100
134 26.9 13.3 39.8
91 26.6 12.4 37.4



#89
n-Butylbenzene
Concen: 172.725 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY014723.D
Acq: 20 Jul 2023 16:04

Tgt Ion: 91 Resp: 503567
Ion Ratio Lower Upper
91 100
92 69.1 25.4 76.0
134 0.0 12.6 37.6#





#95

Naphthalene

Concen: 269.945 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY014723.D

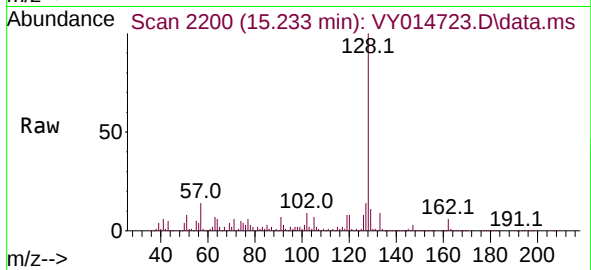
Acq: 20 Jul 2023 16:04

Instrument :

MSVOA_Y

ClientSampleId :

SWC-1



Tgt Ion:128 Resp: 548799

Ion Ratio Lower Upper

128 100

127 16.4 10.8 16.2#

129 12.2 8.6 13.0

