

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW032323\
 Data File : VW030306.D
 Acq On : 23 Mar 2023 13:20
 Operator : SY/MD
 Sample : 02041-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB954

Quant Time: Mar 24 02:50:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 24 02:42:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	157809	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	152918	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	83725	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	44405	4.249	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.000%
7) Chloroethane-d5	1.532	69	42044	4.145	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.000%
11) 1,1-Dichloroethene-d2	2.060	63	73526	2.965	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.200%#
20) 2-Butanone-d5	3.899	46	98466	36.449	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	72.900%
24) Chloroform-d	4.256	84	106757	4.220	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.400%
26) 1,2-Dichloroethane-d4	4.953	65	51333	4.301	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.000%
32) Benzene-d6	4.963	84	188908	4.384	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.600%
36) 1,2-Dichloropropane-d6	5.998	67	64266	4.764	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.200%
41) Toluene-d8	7.249	98	157495	3.980	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
43) trans-1,3-Dichloroprop...	7.561	79	18949	3.731	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.600%
46) 2-Hexanone-d5	8.043	63	75413	36.948	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	73.900%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	43429	4.084	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.600%
66) 1,2-Dichlorobenzene-d4	11.567	152	72590	4.851	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	3371	0.133	ug/L	96
6) Bromomethane	1.490	94	664	0.126	ug/L	99
14) Carbon disulfide	2.246	76	4187	0.096	ug/L #	94
30) Cyclohexane	4.580	56	12556	0.561	ug/L	97
33) Benzene	5.014	78	12046	0.222	ug/L	100
35) Methylcyclohexane	6.053	83	9817	0.427	ug/L	97
42) Toluene	7.326	91	4879	0.084	ug/L	92
45) 1,1,2-Trichloroethane	7.725	97	1402	0.143	ug/L #	31
51) Chlorobenzene	8.821	112	1430313	38.614	ug/L	98
52) Ethylbenzene	8.956	91	3016	0.048	ug/L	100
53) m,p-Xylene	9.082	106	4185	0.173	ug/L	70
54) o-Xylene	9.487	106	3949	0.170	ug/L	90
60) Isopropylbenzene	9.873	105	78262	1.268	ug/L #	85
61) 1,2,3-Trichloropropane	11.217	75	40788	5.449	ug/L #	48
62) 1,3,5-Trimethylbenzene	11.281	105	11156	0.221	ug/L	91
63) 1,2,4-Trimethylbenzene	11.281	105	11156	0.217	ug/L	94
64) 1,3-Dichlorobenzene	11.127	146	5172	0.168	ug/L	94
65) 1,4-Dichlorobenzene	11.217	146	103148	3.325	ug/L	98
67) 1,2-Dichlorobenzene	11.590	146	10006	0.361	ug/L	95

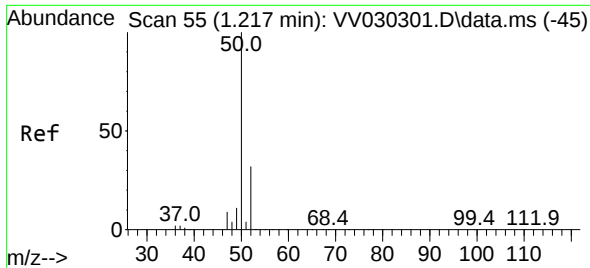
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV032323\
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 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.361	75	5160	2.771	ug/L #	3
70) 1,2,4-trichlorobenzene	13.210	180	1606	0.088	ug/L #	38
71) Naphthalene	13.451	128	7901	0.302	ug/L #	95
72) 1,2,3-Trichlorobenzene	13.689	180	1213	0.076	ug/L #	43

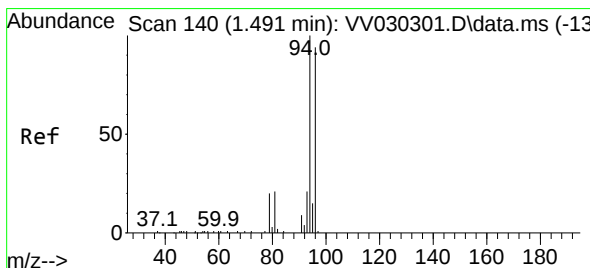
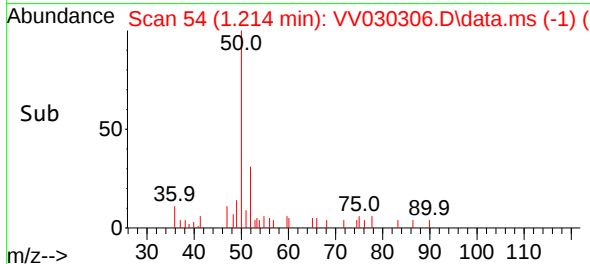
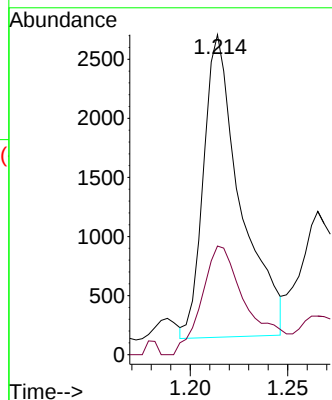
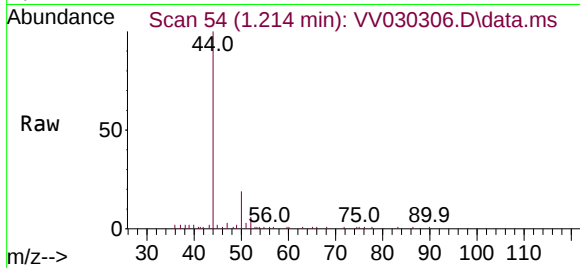
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.133 ug/L
RT: 1.214 min Scan# 54
Delta R.T. -0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

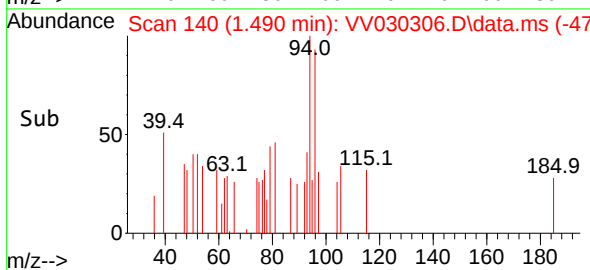
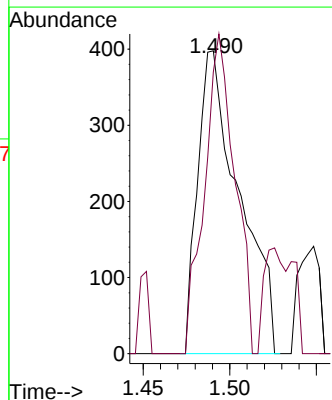
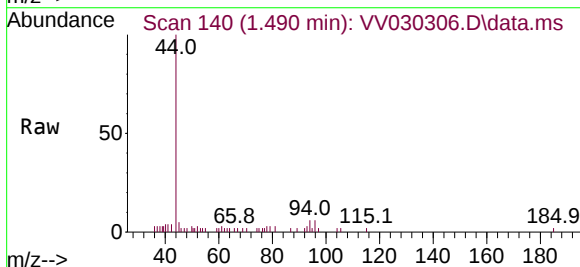
Instrument :
MSVOA_V
ClientSampleId :
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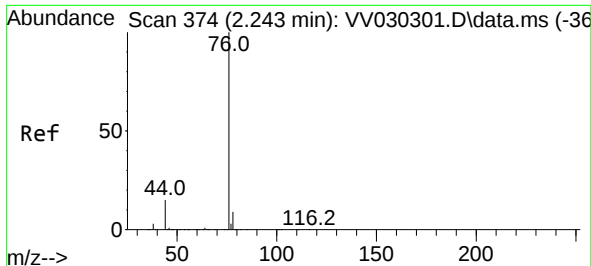
Tgt Ion: 50 Resp: 3371
Ion Ratio Lower Upper
50 100
52 34.0 22.3 41.5



#6
Bromomethane
Concen: 0.126 ug/L
RT: 1.490 min Scan# 140
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion: 94 Resp: 664
Ion Ratio Lower Upper
94 100
96 93.0 66.1 122.7

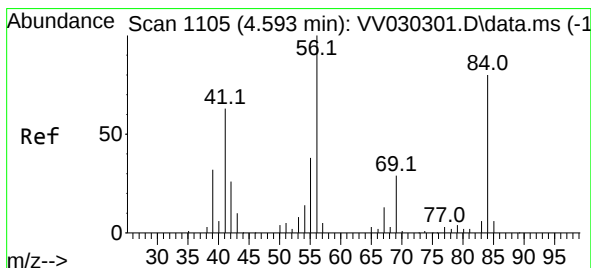
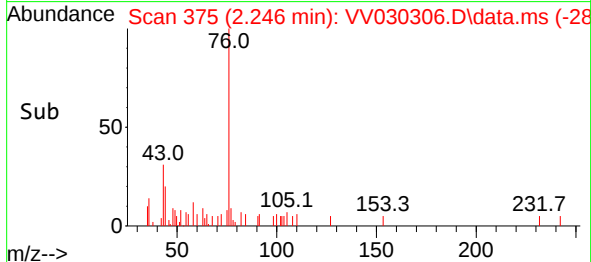
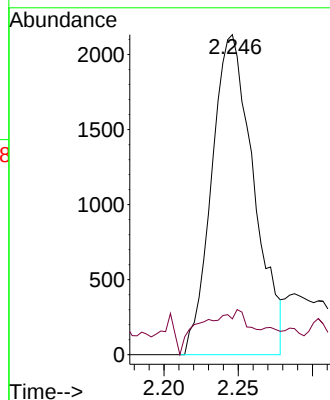
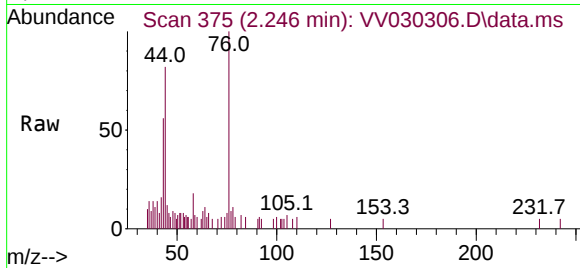




#14
Carbon disulfide
Concen: 0.096 ug/L
RT: 2.246 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

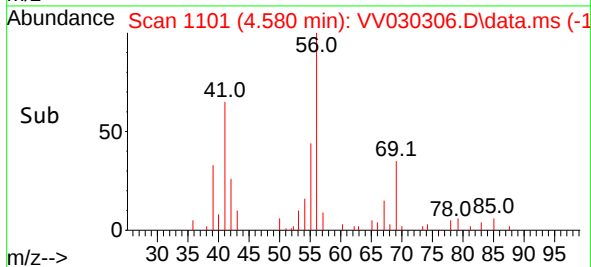
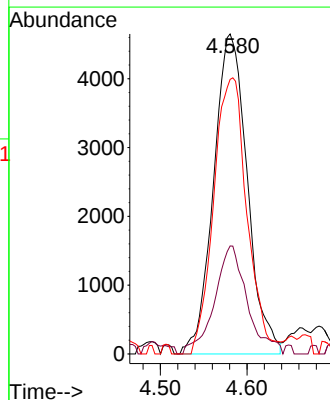
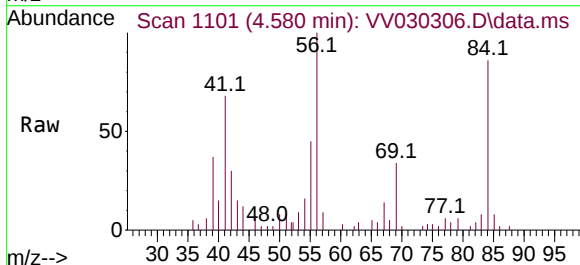
Instrument :
MSVOA_V
ClientSampleId :
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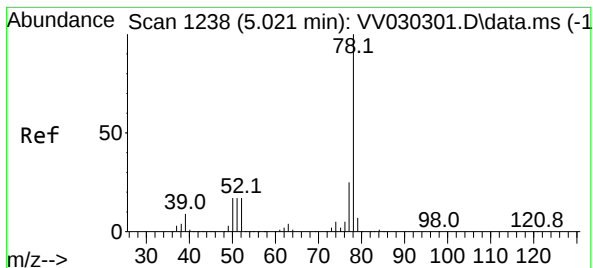
Tgt Ion: 76 Resp: 4187
Ion Ratio Lower Upper
76 100
78 11.2 7.3 10.9#



#30
Cyclohexane
Concen: 0.561 ug/L
RT: 4.580 min Scan# 1101
Delta R.T. -0.013 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion: 56 Resp: 12556
Ion Ratio Lower Upper
56 100
69 32.8 24.2 36.2
84 85.5 66.6 100.0





#33

Benzene

Concen: 0.222 ug/L

RT: 5.014 min Scan# 1

Delta R.T. -0.006 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

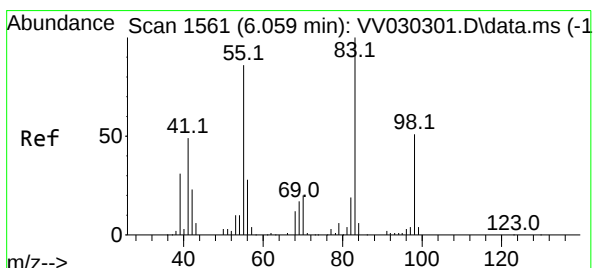
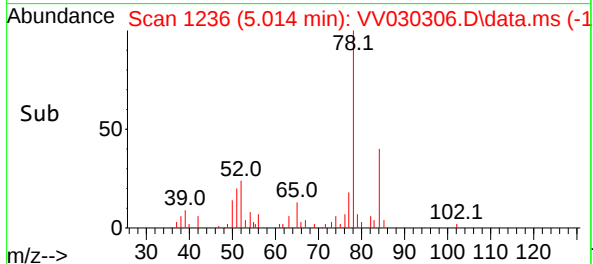
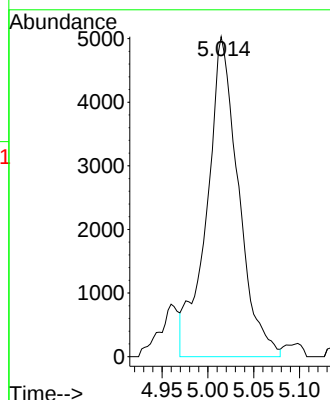
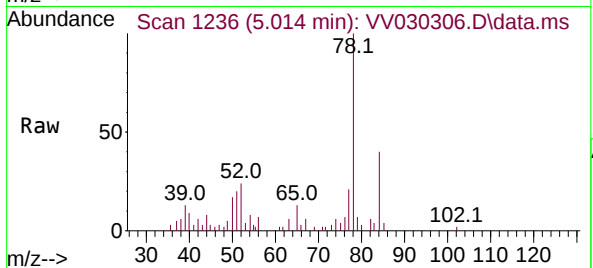
Instrument :

MSVOA_V

ClientSampleId :

CB954

Tgt Ion: 78 Resp: 12046



#35

Methylcyclohexane

Concen: 0.427 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. -0.006 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

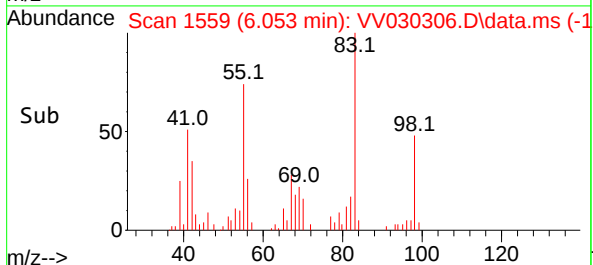
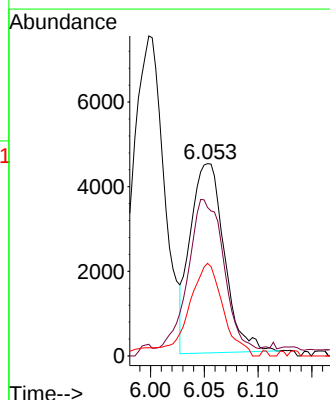
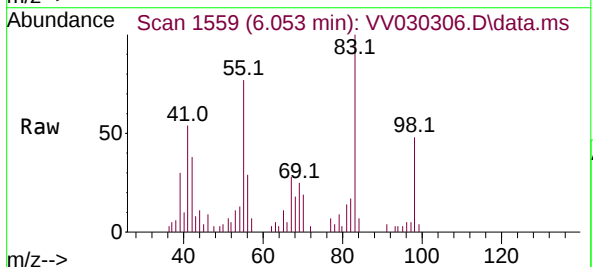
Tgt Ion: 83 Resp: 9817

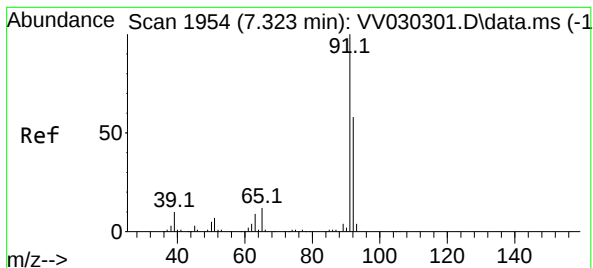
Ion Ratio Lower Upper

83 100

55 85.2 66.6 100.0

98 52.0 38.6 58.0





#42

Toluene

Concen: 0.084 ug/L

RT: 7.326 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

Instrument :

MSVOA_V

ClientSampleId :

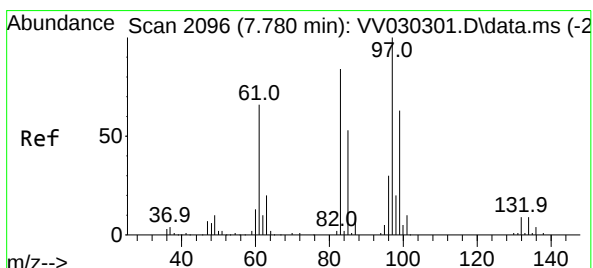
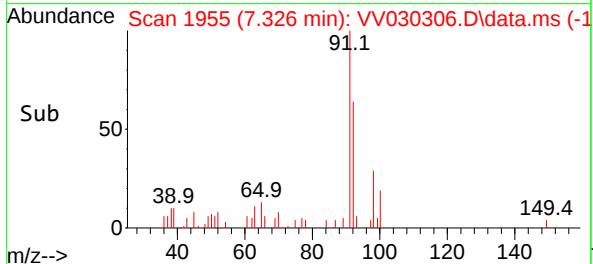
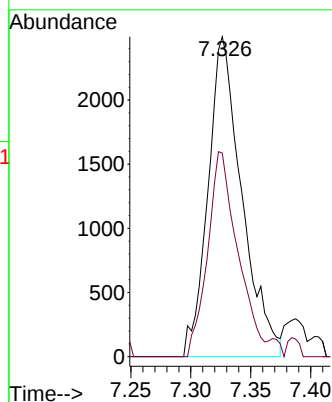
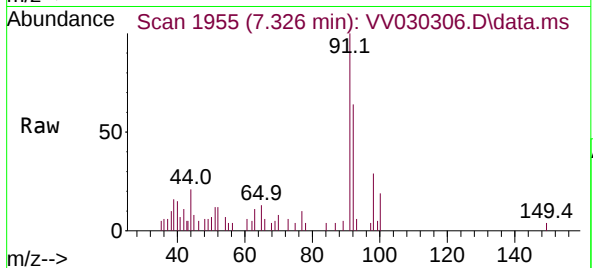
CB954

Tgt Ion: 91 Resp: 4879

Ion Ratio Lower Upper

91 100

92 63.7 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.143 ug/L

RT: 7.725 min Scan# 2079

Delta R.T. -0.055 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

Tgt Ion: 97 Resp: 1402

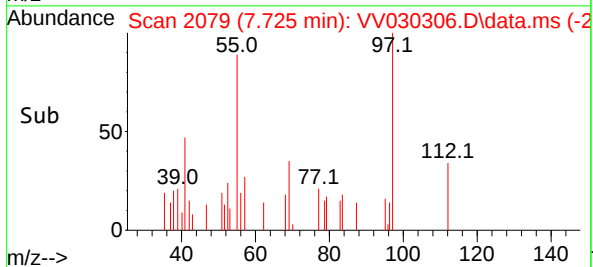
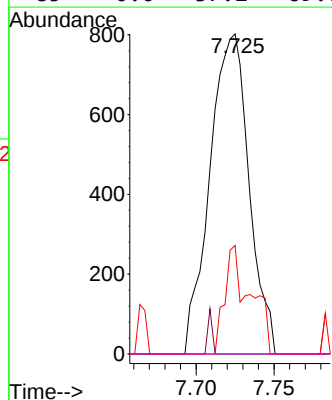
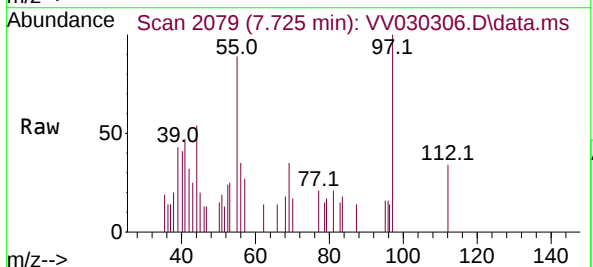
Ion Ratio Lower Upper

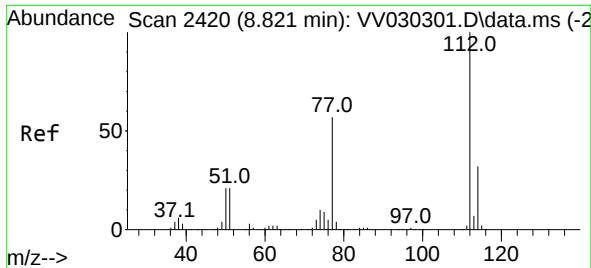
97 100

99 0.0 44.0 81.8#

83 33.9 58.8 109.2#

85 0.0 37.2 69.0#

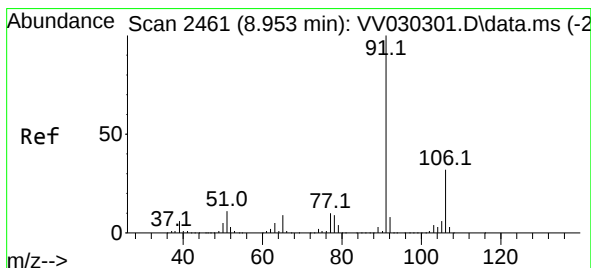
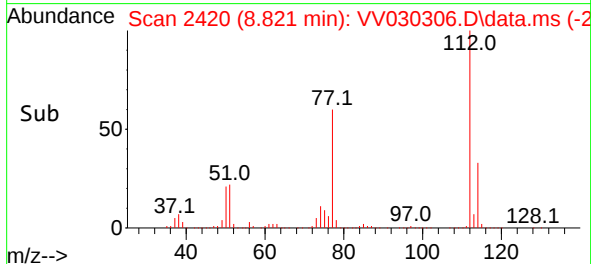
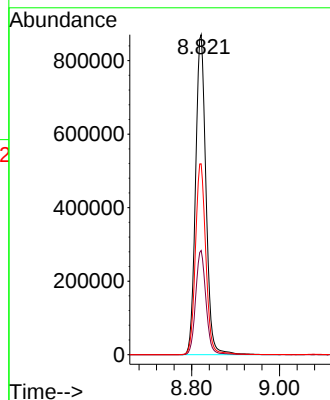
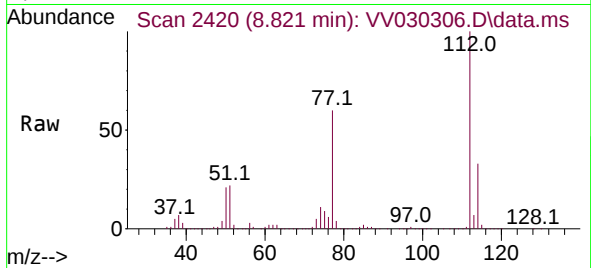




#51
Chlorobenzene
Concen: 38.614 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

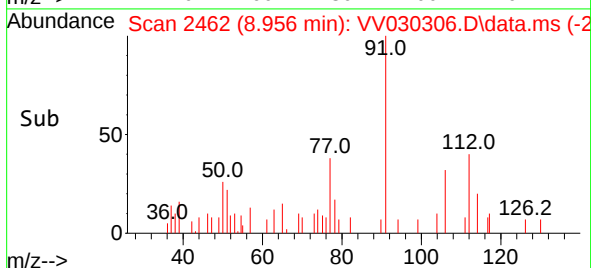
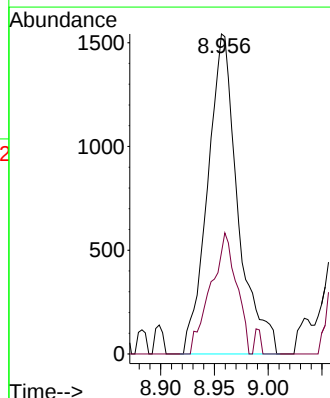
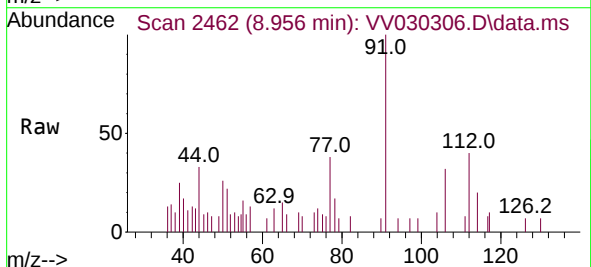
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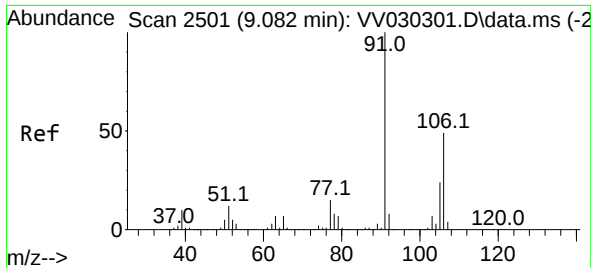
Tgt Ion:112 Resp: 1430313
Ion Ratio Lower Upper
112 100
114 32.5 22.4 41.6
77 59.7 45.9 68.9



#52
Ethylbenzene
Concen: 0.048 ug/L
RT: 8.956 min Scan# 2462
Delta R.T. 0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion: 91 Resp: 3016
Ion Ratio Lower Upper
91 100
106 31.8 22.2 41.2

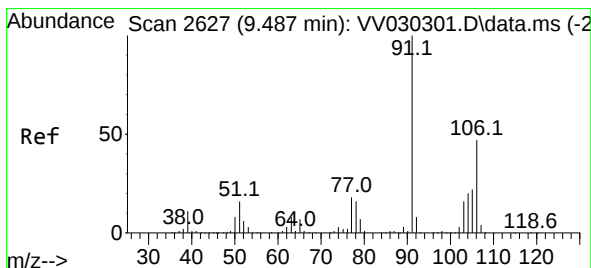
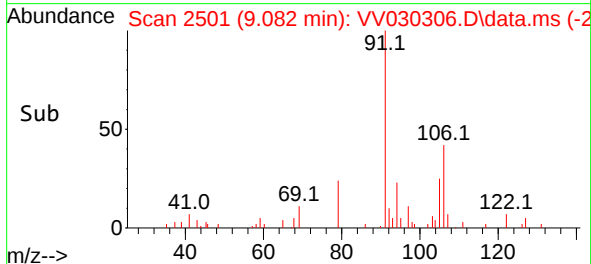
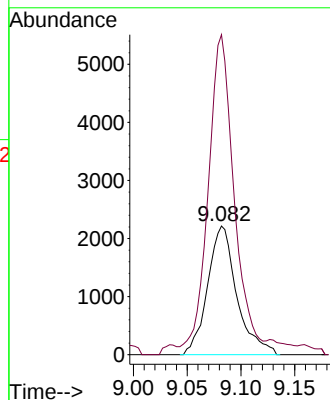
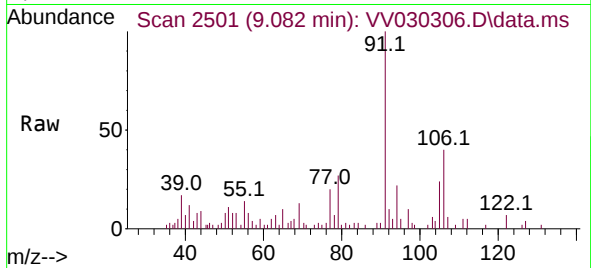




#53
m,p-Xylene
Concen: 0.173 ug/L
RT: 9.082 min Scan# 2501
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

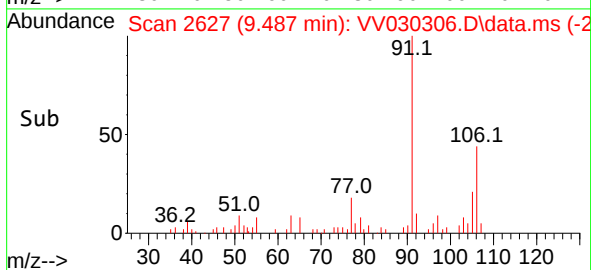
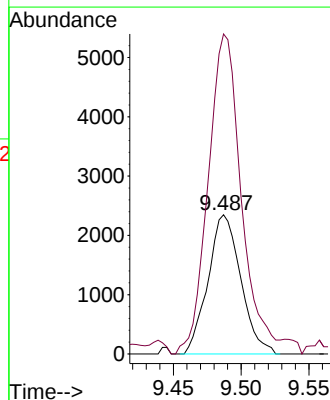
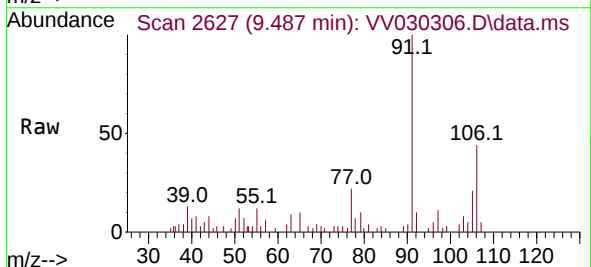
Instrument :
MSVOA_V
ClientSampleId :
CB954

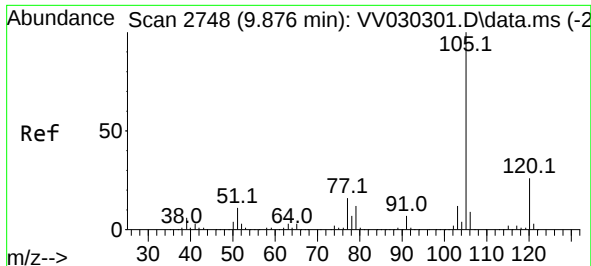
Tgt Ion:106 Resp: 4185
Ion Ratio Lower Upper
106 100
91 248.8 142.4 264.4



#54
o-Xylene
Concen: 0.170 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion:106 Resp: 3949
Ion Ratio Lower Upper
106 100
91 229.8 149.8 278.2

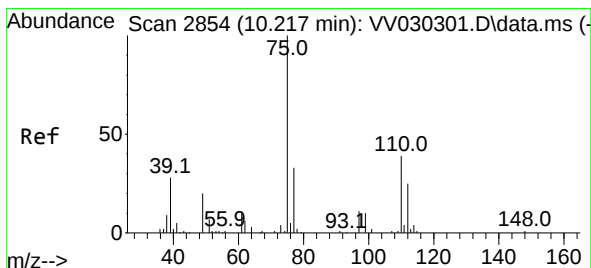
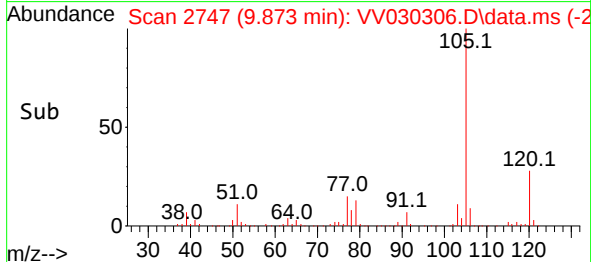
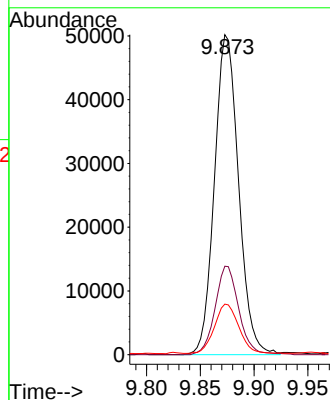
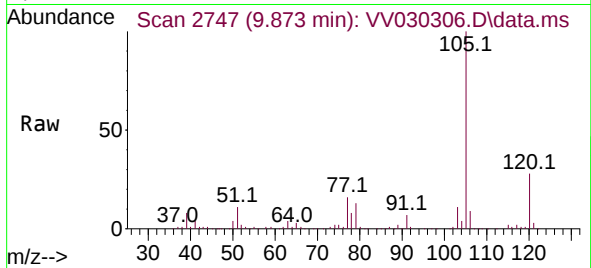




#60
Isopropylbenzene
Concen: 1.268 ug/L
RT: 9.873 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

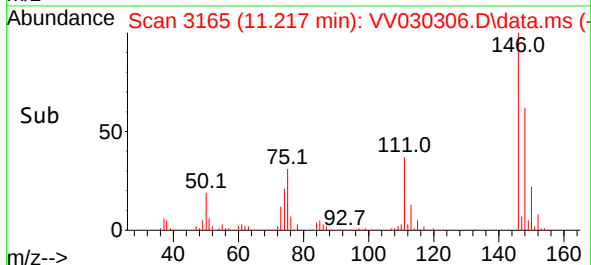
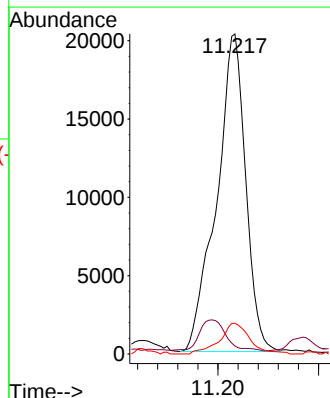
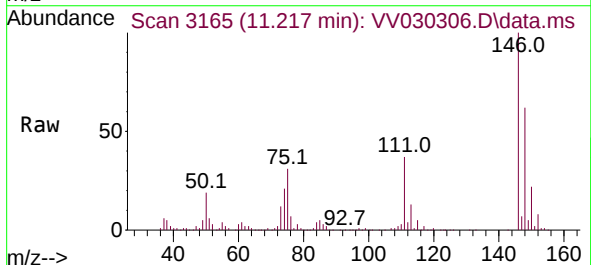
Instrument :
MSVOA_V
ClientSampleId :
CB954

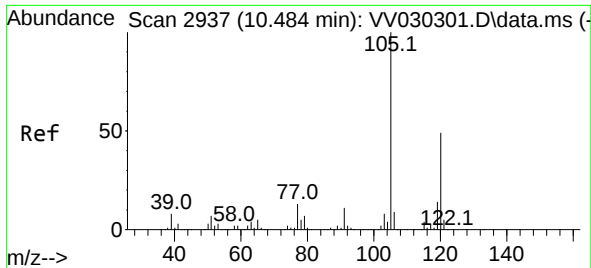
Tgt Ion:105 Resp: 78262
Ion Ratio Lower Upper
105 100
120 27.1 21.1 31.7
77 0.0 12.9 19.3#



#61
1,2,3-Trichloropropane
Concen: 5.449 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 1.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion: 75 Resp: 40788
Ion Ratio Lower Upper
75 100
77 0.0 26.0 39.0#
110 10.0 31.6 47.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.221 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.797 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

Instrument :

MSVOA_V

ClientSampleId :

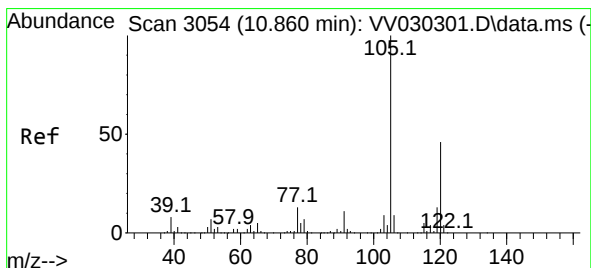
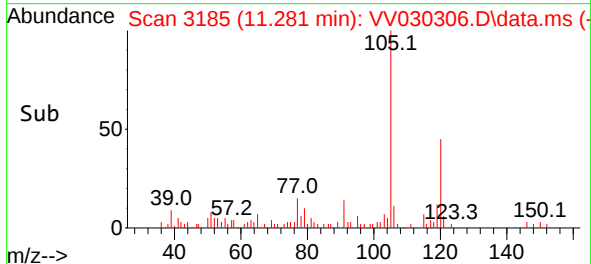
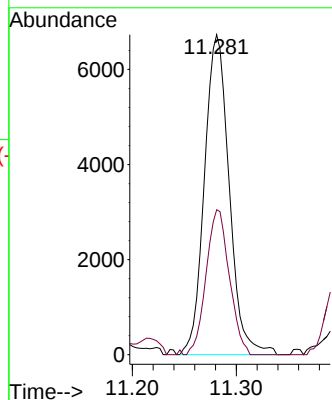
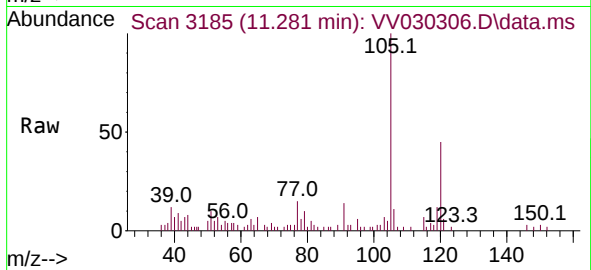
CB954

Tgt Ion:105 Resp: 11156

Ion Ratio Lower Upper

105 100

120 42.3 38.9 58.3



#63

1,2,4-Trimethylbenzene

Concen: 0.217 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.421 min

Lab File: VV030306.D

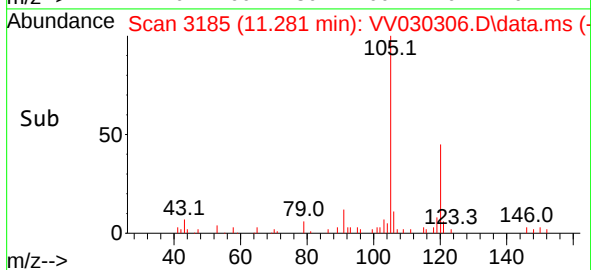
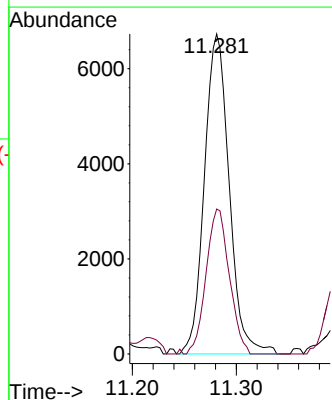
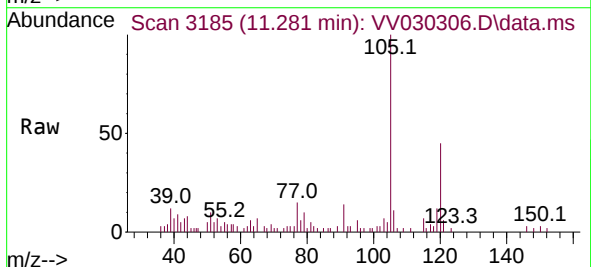
Acq: 23 Mar 2023 13:20

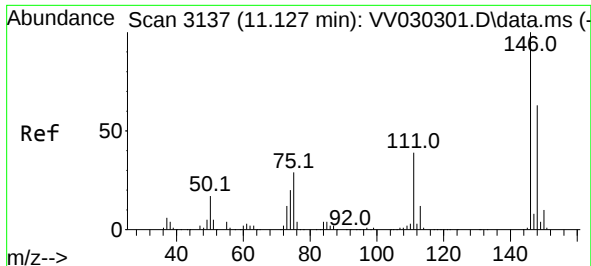
Tgt Ion:105 Resp: 11156

Ion Ratio Lower Upper

105 100

120 42.3 36.8 55.2

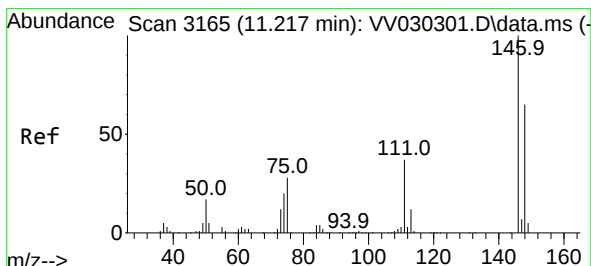
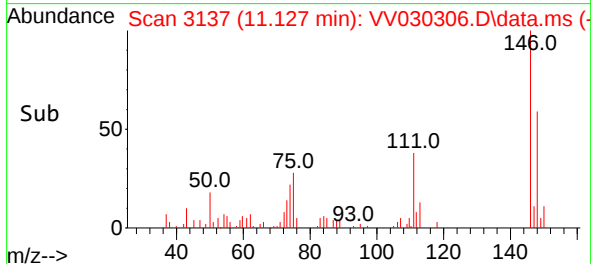
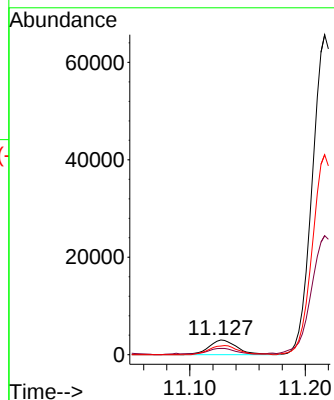
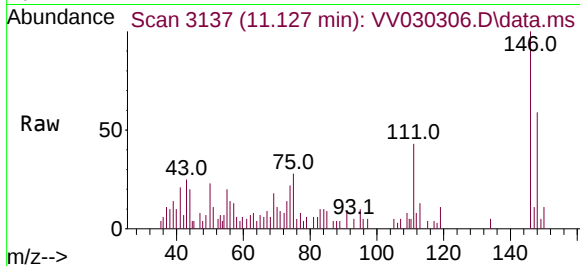




#64
1,3-Dichlorobenzene
Concen: 0.168 ug/L
RT: 11.127 min Scan# 3137
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

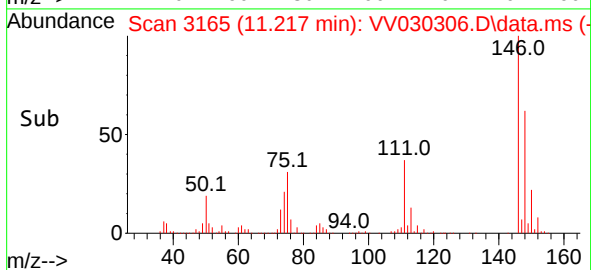
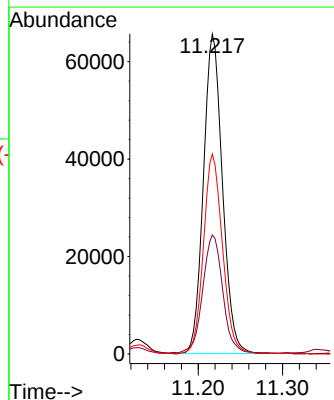
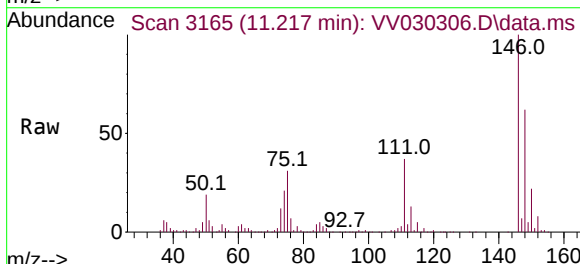
Instrument :
MSVOA_V
ClientSampleId :
CB954

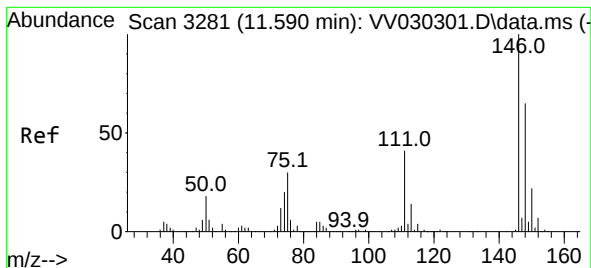
Tgt Ion:146 Resp: 5172
Ion Ratio Lower Upper
146 100
111 42.6 27.0 50.2
148 59.2 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 3.325 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. -0.000 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion:146 Resp: 103148
Ion Ratio Lower Upper
146 100
111 37.2 26.0 48.4
148 62.5 45.2 84.0





#67

1,2-Dichlorobenzene

Concen: 0.361 ug/L

RT: 11.590 min Scan# 3281

Delta R.T. -0.000 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

Instrument :

MSVOA_V

ClientSampleId :

CB954

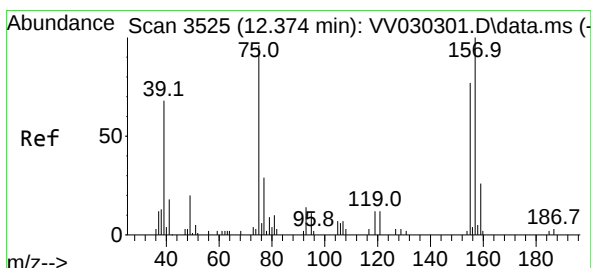
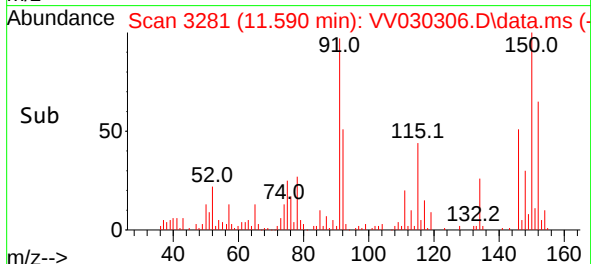
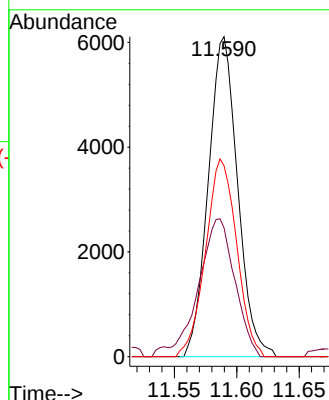
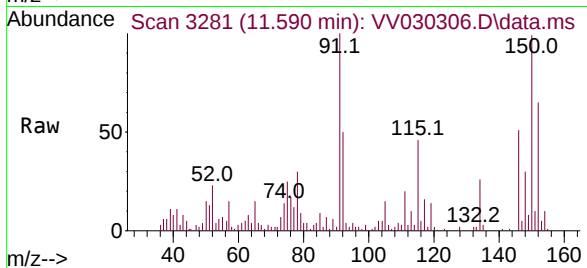
Tgt Ion:146 Resp: 10006

Ion Ratio Lower Upper

146 100

111 40.3 33.1 49.7

148 59.7 52.2 78.2



#68

1,2-Dibromo-3-chloropropane

Concen: 2.771 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.013 min

Lab File: VV030306.D

Acq: 23 Mar 2023 13:20

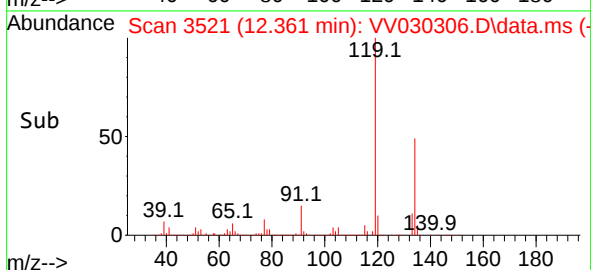
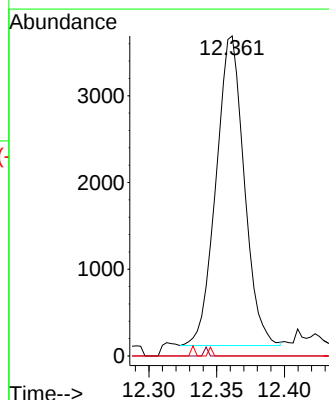
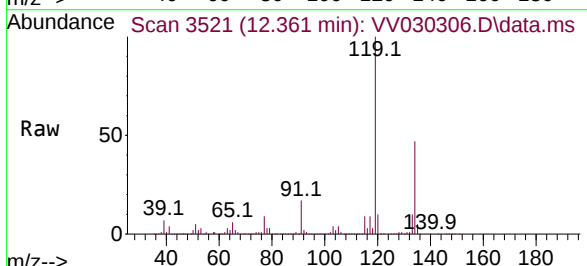
Tgt Ion: 75 Resp: 5160

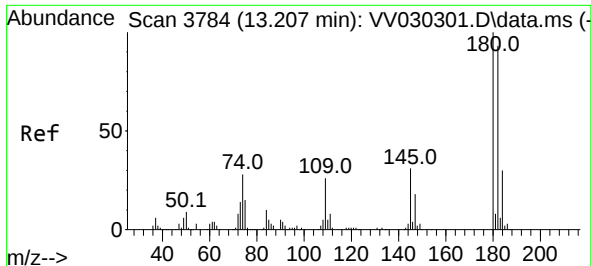
Ion Ratio Lower Upper

75 100

155 0.0 64.6 96.8#

157 0.0 83.8 125.6#

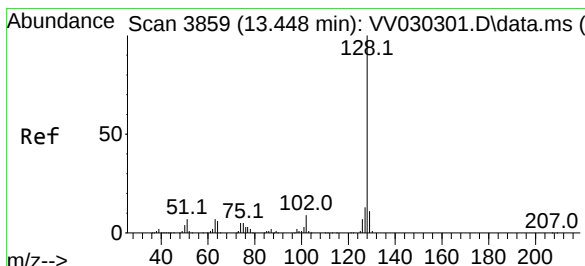
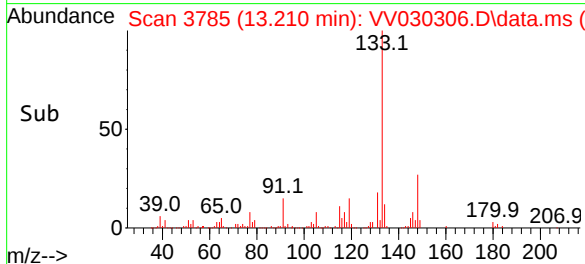
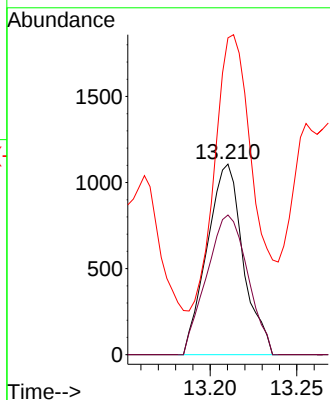
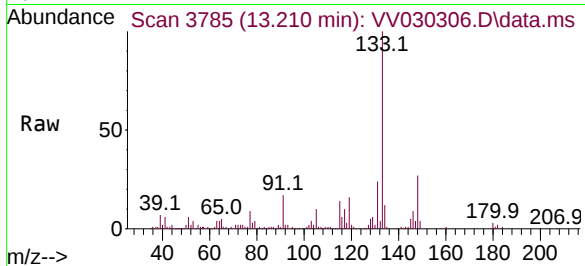




#70
1,2,4-trichlorobenzene
Concen: 0.088 ug/L
RT: 13.210 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

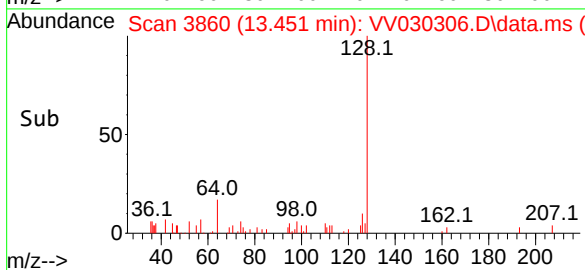
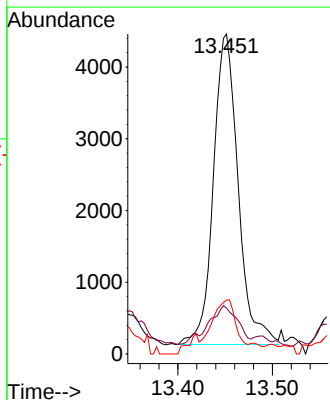
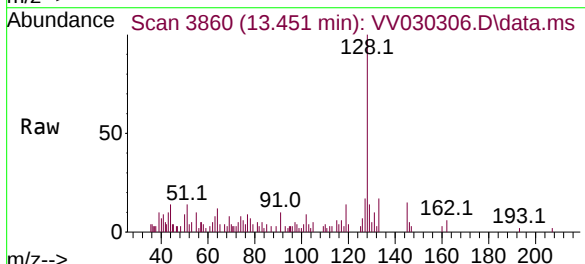
Instrument :
MSVOA_V
ClientSampleId :
CB954

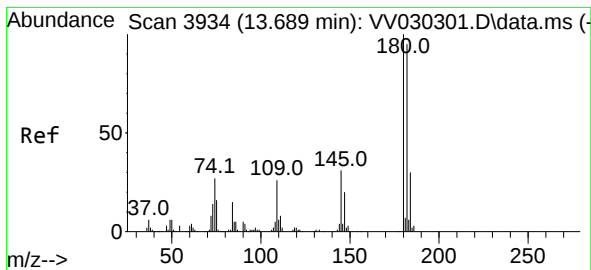
Tgt Ion:180 Resp: 1606
Ion Ratio Lower Upper
180 100
182 83.3 75.3 112.9
145 150.2 23.8 35.6#



#71
Naphthalene
Concen: 0.302 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.003 min
Lab File: VV030306.D
Acq: 23 Mar 2023 13:20

Tgt Ion:128 Resp: 7901
Ion Ratio Lower Upper
128 100
129 14.8 8.9 13.3#
127 13.8 10.8 16.2





#72

1,2,3-Trichlorobenzene

Concen: 0.076 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. -0.000 min

Lab File: VV030306.D

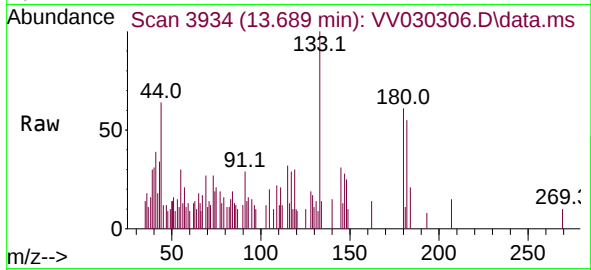
Acq: 23 Mar 2023 13:20

Instrument :

MSVOA_V

ClientSampleId :

CB954



Tgt Ion:	180	Resp:	1213
Ion Ratio	Lower	Upper	
180	100		
182	91.3	76.6	115.0
145	151.0	25.0	37.4#

