

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111021\
 Data File : VW023400.D
 Acq On : 11 Nov 2021 20:11
 Operator : SY/MD
 Sample : M4542-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 12 02:08:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 12 02:02:21 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	115150	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	115265	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	63234	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	28806	3.993	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.800%
7) Chloroethane-d5	1.568	69	21972	3.737	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.800%
11) 1,1-Dichloroethene-d2	2.108	63	42608	3.155	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.200%
20) 2-Butanone-d5	3.886	46	69108	55.607	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.220%
24) Chloroform-d	4.349	84	62650	4.075	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.600%
26) 1,2-Dichloroethane-d4	5.034	65	31375	4.538	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.800%
32) Benzene-d6	5.050	84	121335	4.103	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.000%
36) 1,2-Dichloropropane-d6	6.072	67	37894	4.353	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.000%
41) Toluene-d8	7.320	98	108695	3.922	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.400%
43) trans-1,3-Dichloroprop...	7.629	79	13465	4.079	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.600%
46) 2-Hexanone-d5	8.088	63	52767	43.444	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.880%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	28089	4.486	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	47988	4.558	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	7786	0.816	ug/L	99
5) Vinyl chloride	1.311	62	7736	0.811	ug/L	95
6) Bromomethane	1.523	94	424	0.070	ug/L	83
12) 1,1-Dichloroethene	2.118	96	1955	0.285	ug/L #	1
13) Acetone	2.175	43	4626	6.092	ug/L	99
19) 1,1-Dichloroethane	3.191	63	23358	1.639	ug/L	98
22) cis-1,2-Dichloroethene	3.912	96	29775	3.665	ug/L #	91
25) Chloroform	4.378	83	14563	0.959	ug/L	97
29) 1,1,1-Trichloroethane	4.609	97	38301	2.736	ug/L	98
31) Carbon tetrachloride	4.609	117	5239	0.417	ug/L	93
34) Trichloroethene	5.915	95	115811	13.518	ug/L	98
35) Methylcyclohexane	6.137	83	3642	0.269	ug/L	95
37) 1,2-Dichloropropane	6.072	63	4409	0.586	ug/L #	84
42) Toluene	7.394	91	19533	0.567	ug/L	92
47) Tetrachloroethene	7.976	164	3643	0.491	ug/L	97
48) 2-Hexanone	8.153	43	2878	1.177	ug/L #	84
49) Dibromochloromethane	7.979	129	3249	0.474	ug/L #	10
51) Chlorobenzene	8.883	112	186352	8.136	ug/L	99
52) Ethylbenzene	9.018	91	4803	0.132	ug/L	93

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

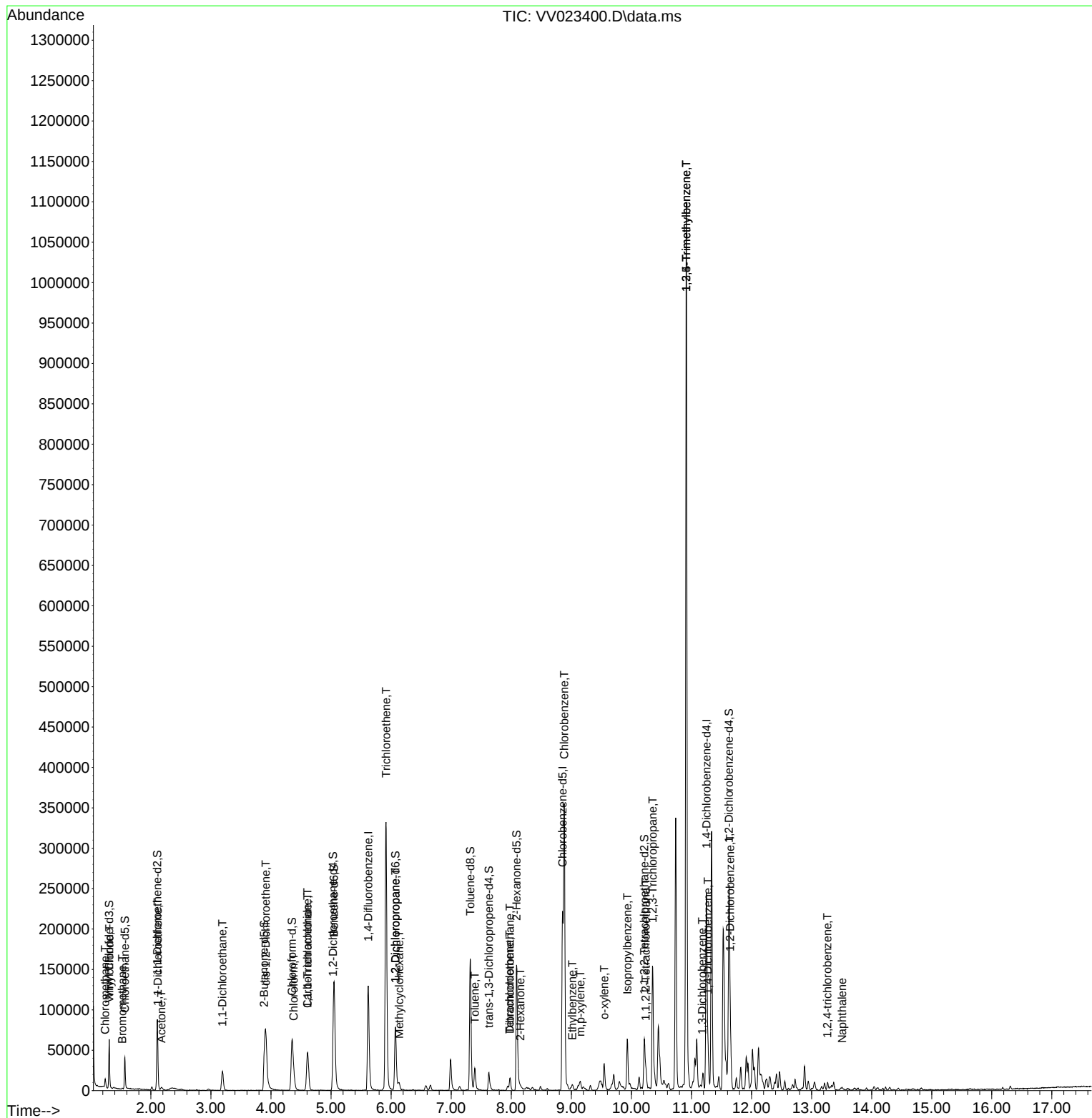
53) m,p-xylene	9.149	106	1621	0.114	ug/L	79
54) o-xylene	9.548	106	8464	0.633	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.239	83	2422	0.409	ug/L #	60
60) Isopropylbenzene	9.934	105	39965	1.101	ug/L	97
61) 1,2,3-Trichloropropane	10.355	75	890	0.212	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.915	105	566667	18.834	ug/L	95
63) 1,2,4-Trimethylbenzene	10.915	105	566667	18.923	ug/L	99
64) 1,3-Dichlorobenzene	11.182	146	2677	0.144	ug/L	94
65) 1,4-Dichlorobenzene	11.275	146	18916	0.999	ug/L	99
67) 1,2-Dichlorobenzene	11.645	146	17789	1.072	ug/L	97
70) 1,2,4-trichlorobenzene	13.265	180	963	0.083	ug/L #	72
71) Naphthalene	13.509	128	3458	0.202	ug/L #	91

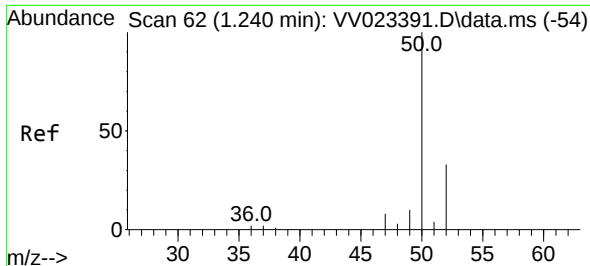
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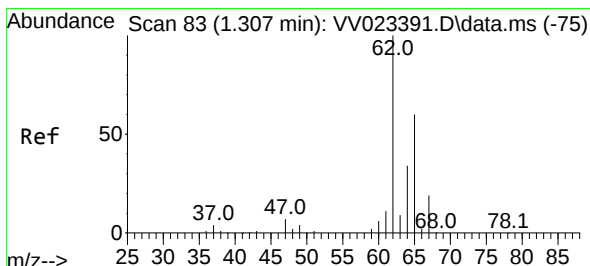
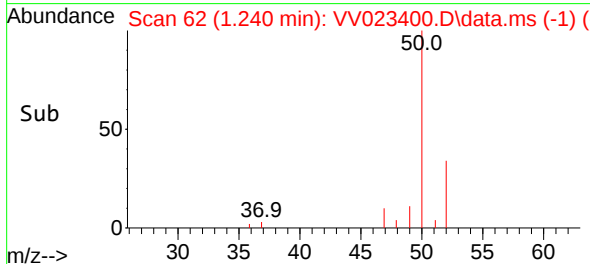
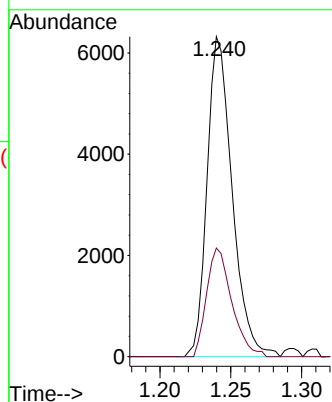
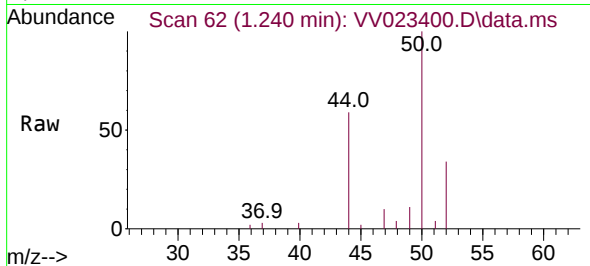




#3
Chloromethane
Concen: 0.816 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

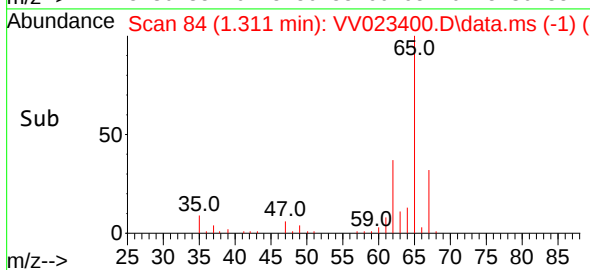
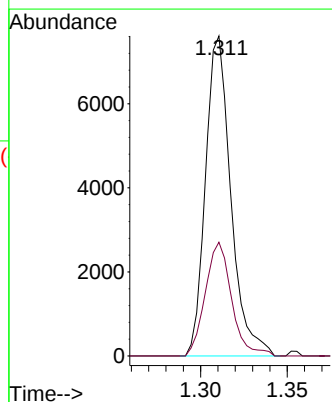
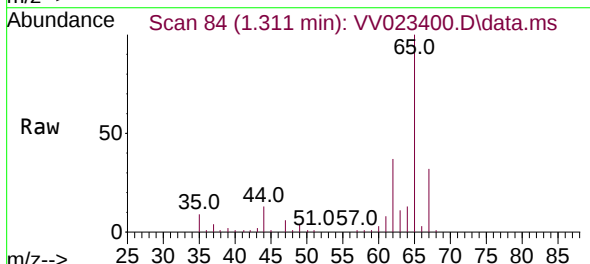
Instrument :
MSVOA_V
ClientSampleId :

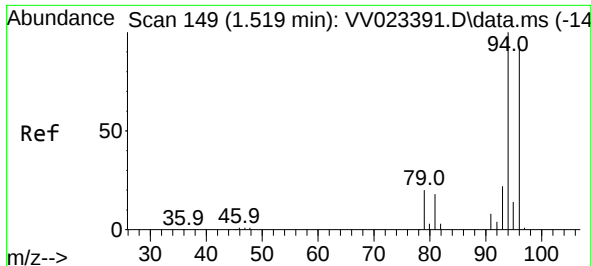
Tgt Ion: 50 Resp: 7786
Ion Ratio Lower Upper
50 100
52 34.0 24.3 45.1



#5
Vinyl chloride
Concen: 0.811 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Tgt Ion: 62 Resp: 7736
Ion Ratio Lower Upper
62 100
64 35.6 23.1 42.9

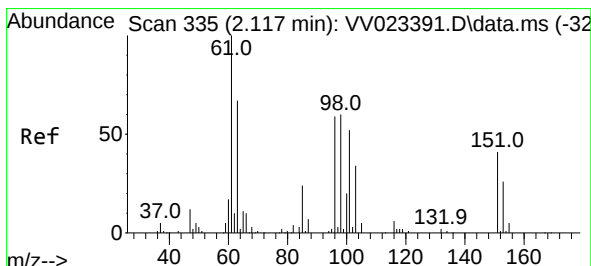
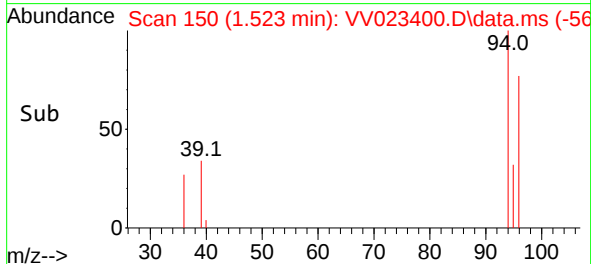
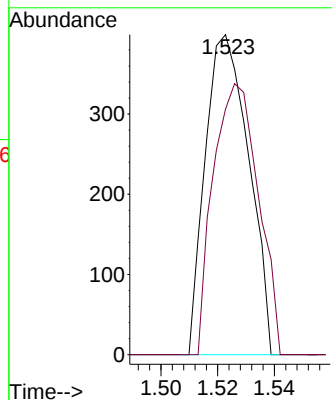
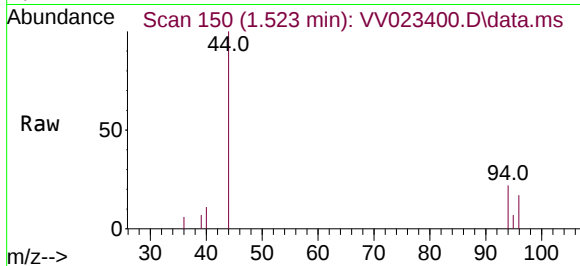




#6
Bromomethane
Concen: 0.070 ug/L
RT: 1.523 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

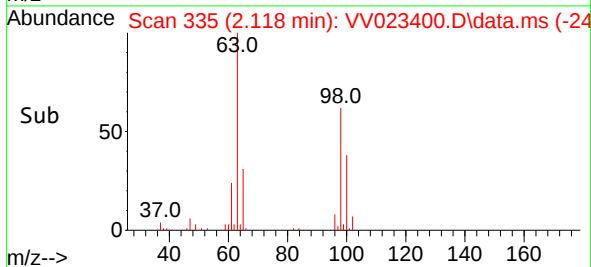
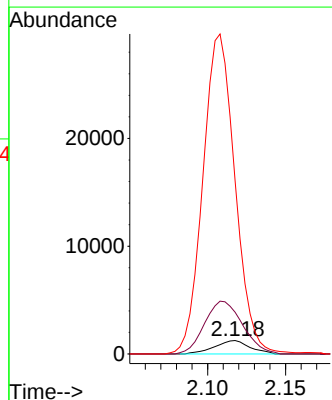
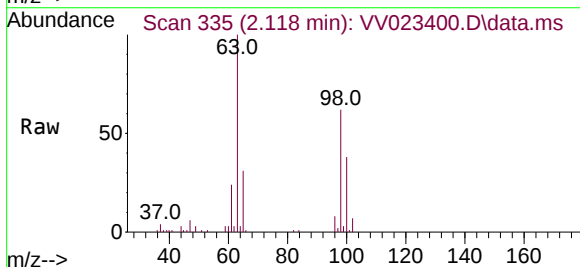
Instrument :
MSVOA_V
ClientSampleId :

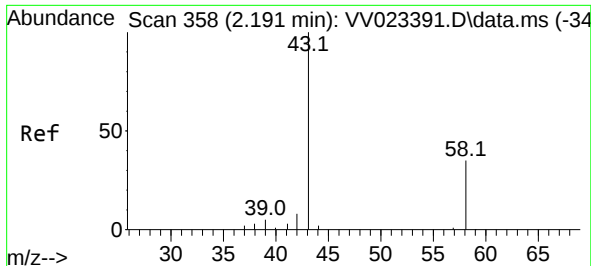
Tgt Ion: 94 Resp: 424
Ion Ratio Lower Upper
94 100
96 76.7 65.0 120.8



#12
1,1-Dichloroethene
Concen: 0.285 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Tgt Ion: 96 Resp: 1955
Ion Ratio Lower Upper
96 100
61 312.2 121.5 225.7#
63 1297.6 99.6 185.0#





#13

Acetone

Concen: 6.092 ug/L

RT: 2.175 min Scan# 3

Delta R.T. -0.016 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

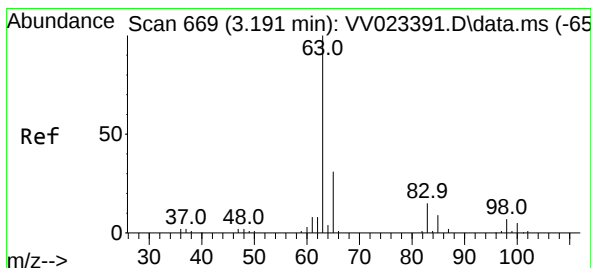
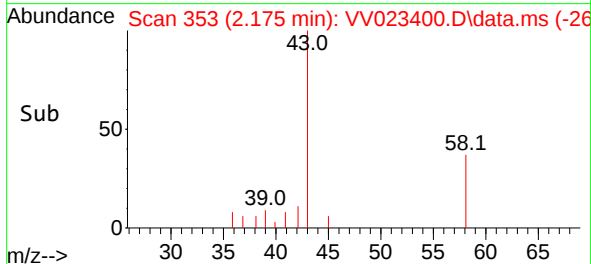
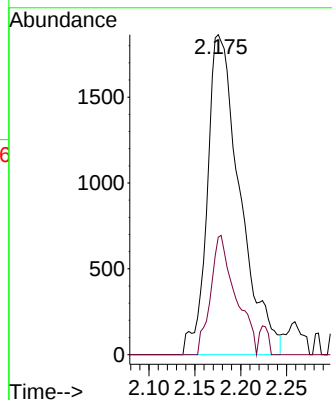
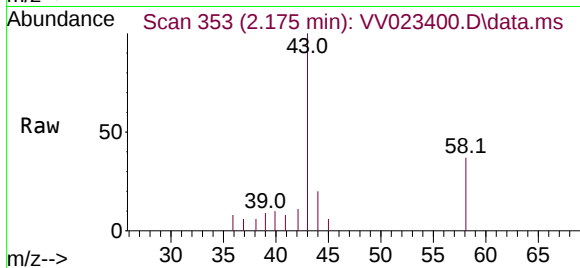
ClientSampleId :

Tgt Ion: 43 Resp: 4626

Ion Ratio Lower Upper

43 100

58 28.3 0.0 55.4



#19

1,1-Dichloroethane

Concen: 1.639 ug/L

RT: 3.191 min Scan# 669

Delta R.T. 0.000 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

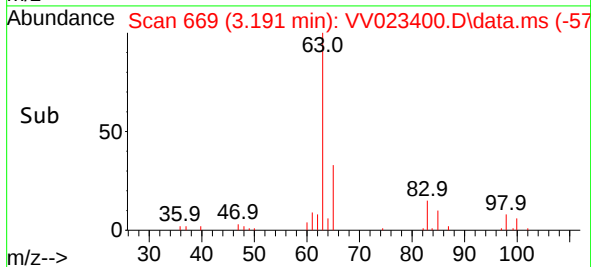
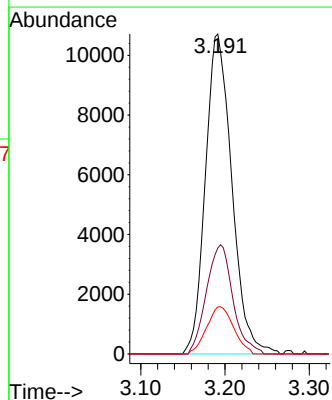
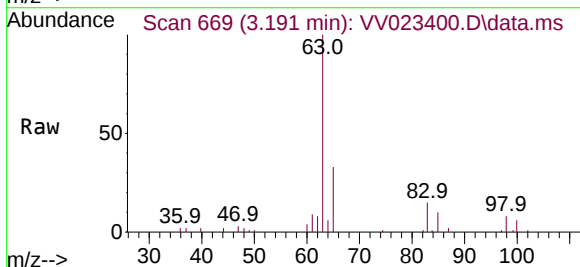
Tgt Ion: 63 Resp: 23358

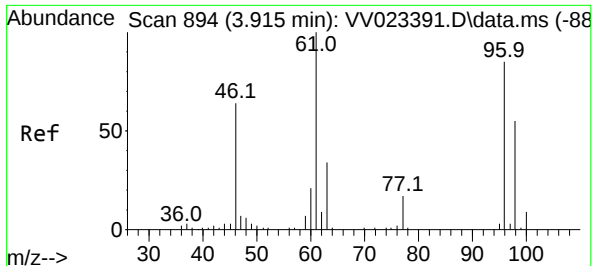
Ion Ratio Lower Upper

63 100

65 33.1 22.6 42.0

83 14.7 11.1 20.7





#22

cis-1,2-Dichloroethene

Concen: 3.665 ug/L

RT: 3.912 min Scan# 894

Delta R.T. -0.003 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

ClientSampleId :

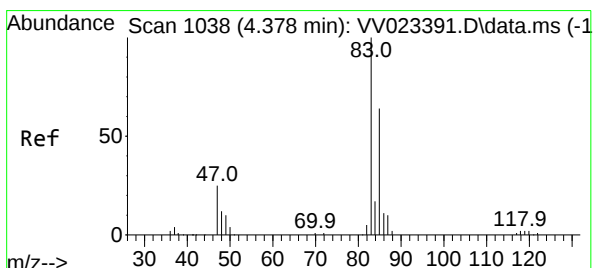
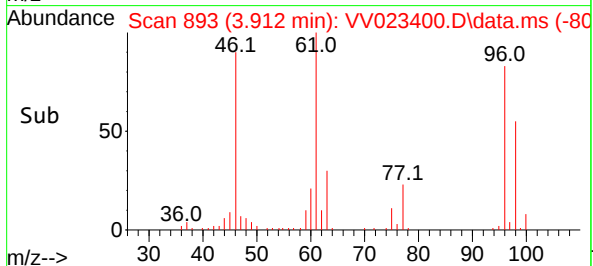
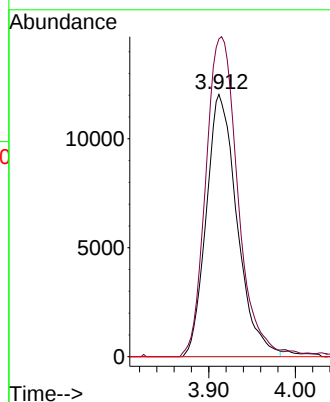
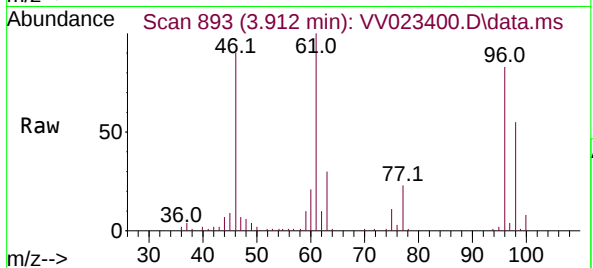
Tgt Ion: 96 Resp: 29775

Ion Ratio Lower Upper

96 100

61 121.2 92.3 171.3

68 0.0 0.4 0.8#



#25

Chloroform

Concen: 0.959 ug/L

RT: 4.378 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VV023400.D

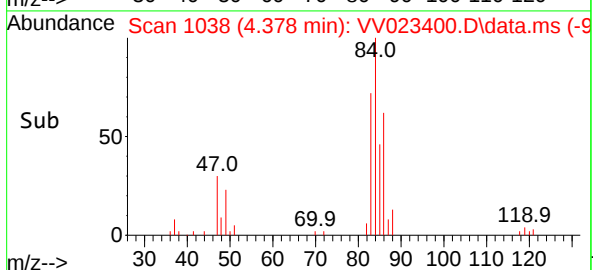
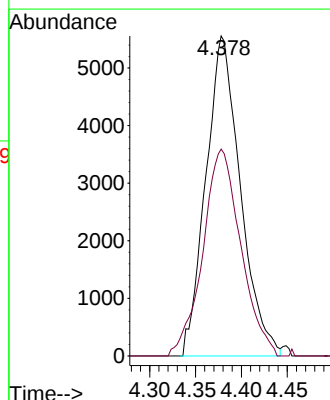
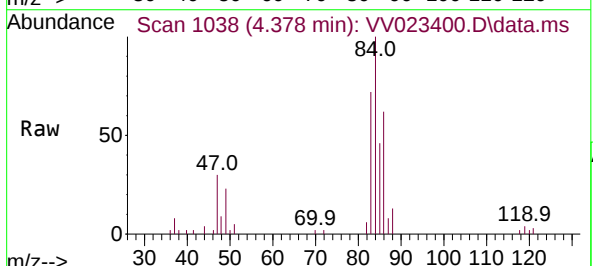
Acq: 11 Nov 2021 20:11

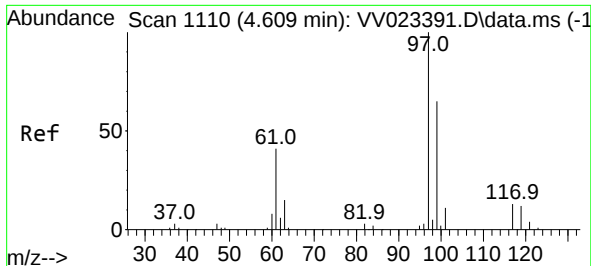
Tgt Ion: 83 Resp: 14563

Ion Ratio Lower Upper

83 100

85 64.6 46.8 86.8





#29

1,1,1-Trichloroethane

Concen: 2.736 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

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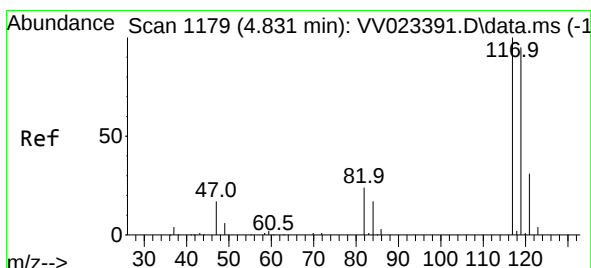
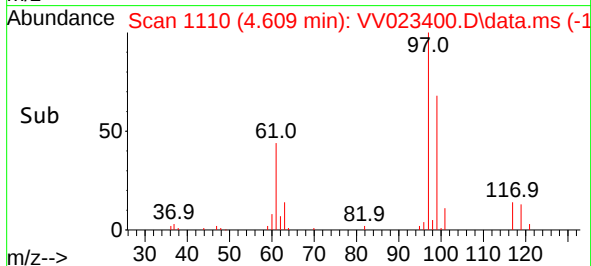
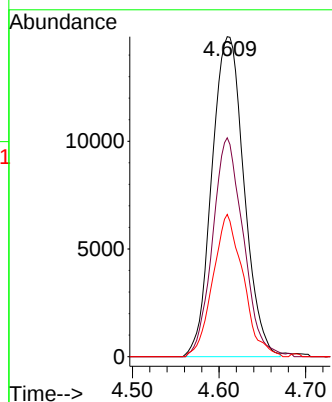
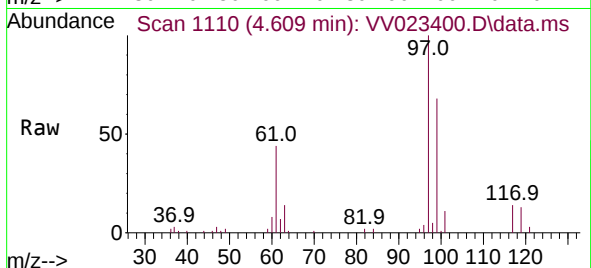
Tgt Ion: 97 Resp: 38301

Ion Ratio Lower Upper

97 100

99 65.5 51.0 76.4

61 42.0 34.1 51.1



#31

Carbon tetrachloride

Concen: 0.417 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. -0.222 min

Lab File: VV023400.D

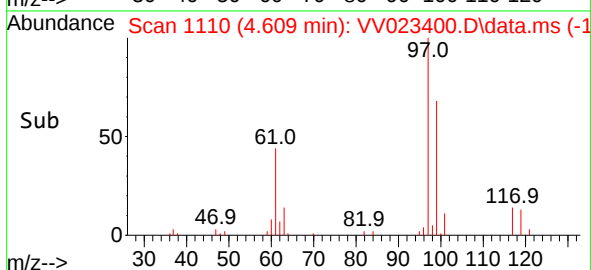
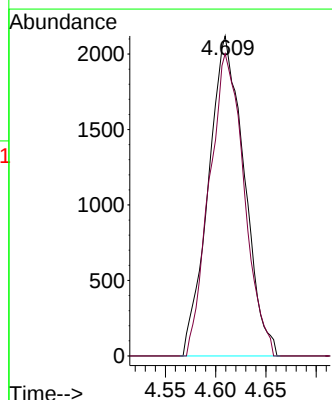
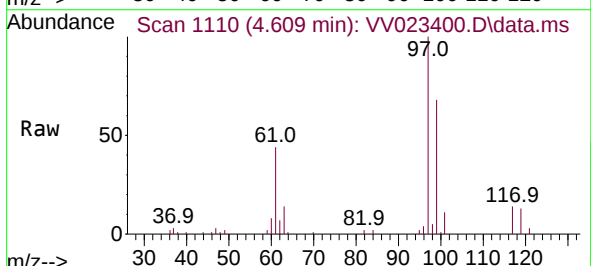
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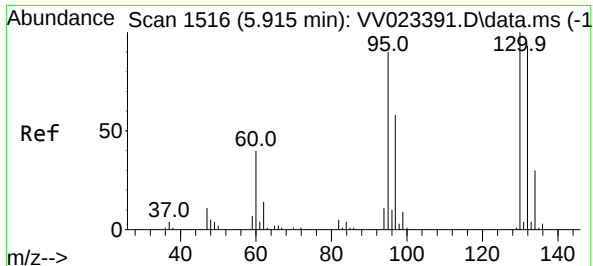
Tgt Ion: 117 Resp: 5239

Ion Ratio Lower Upper

117 100

119 91.8 78.8 118.2





#34

Trichloroethene

Concen: 13.518 ug/L

RT: 5.915 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 115811

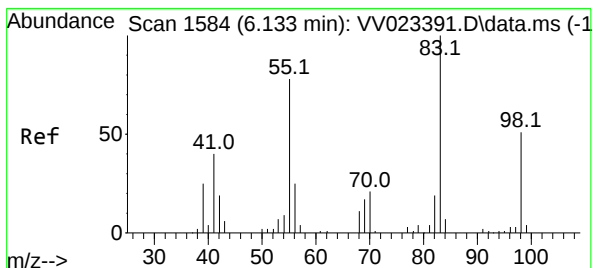
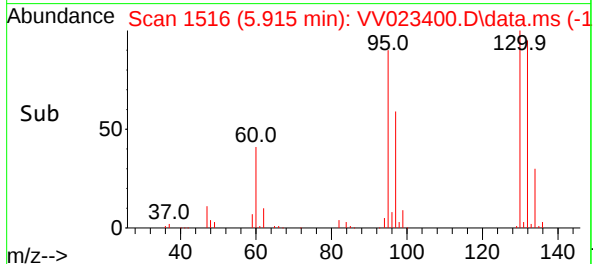
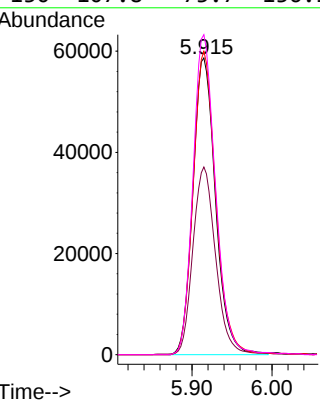
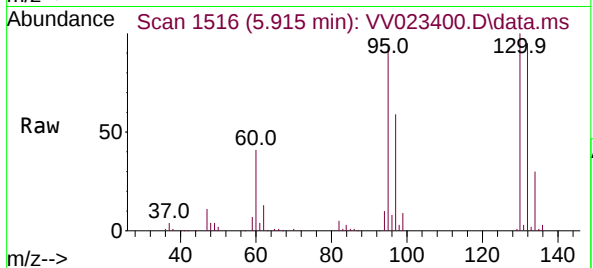
Ion Ratio Lower Upper

95 100

97 63.2 45.0 83.6

132 102.2 69.7 129.4

130 107.8 73.7 136.9



#35

Methylcyclohexane

Concen: 0.269 ug/L

RT: 6.137 min Scan# 1585

Delta R.T. 0.003 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

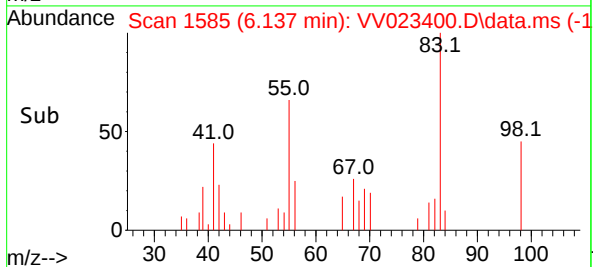
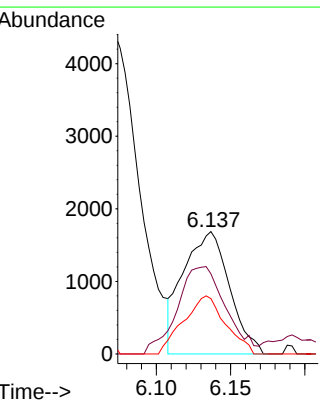
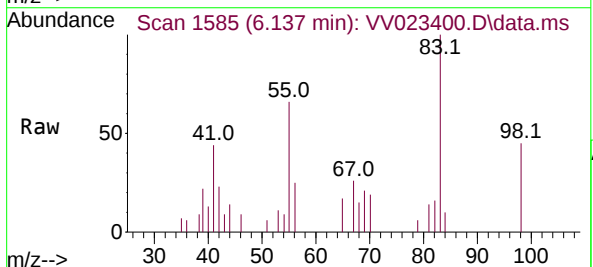
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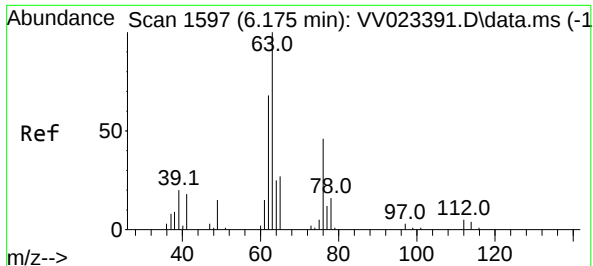
Ion Ratio Lower Upper

83 100

55 75.0 62.8 94.2

98 43.1 37.9 56.9





#37

1,2-Dichloropropane

Concen: 0.586 ug/L

RT: 6.072 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

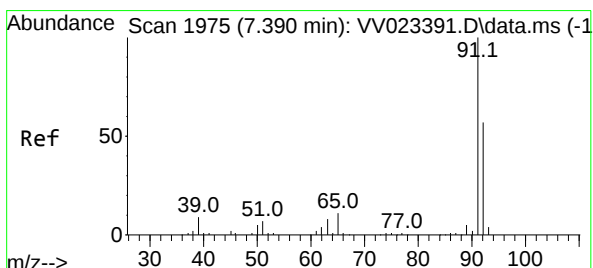
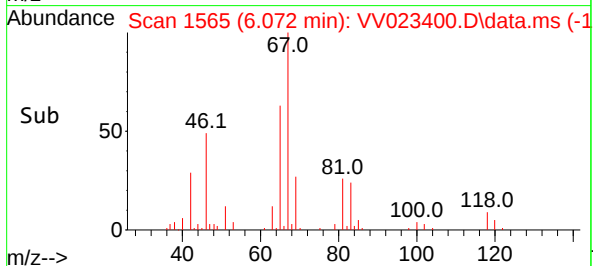
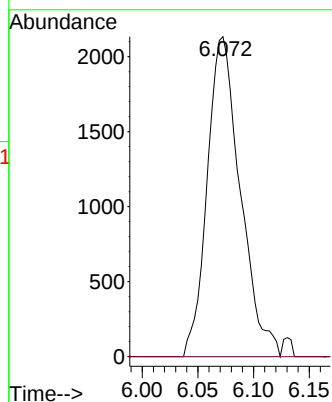
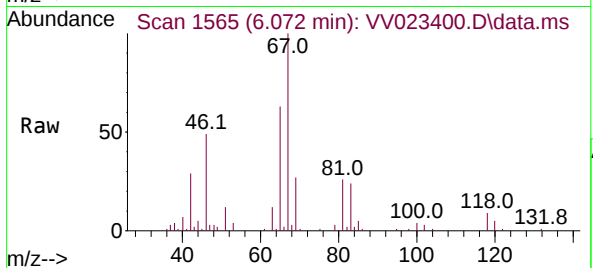
ClientSampleId :

Tgt Ion: 63 Resp: 4409

Ion Ratio Lower Upper

63 100

112 0.5 4.6 6.8#



#42

Toluene

Concen: 0.567 ug/L

RT: 7.394 min Scan# 1976

Delta R.T. 0.003 min

Lab File: VV023400.D

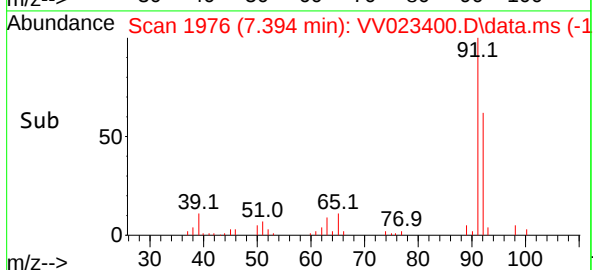
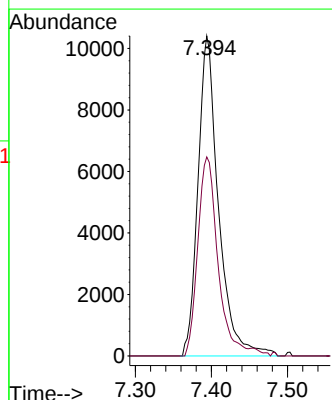
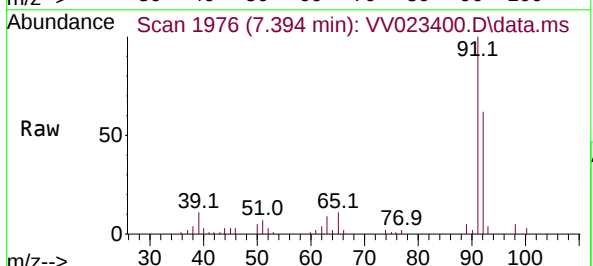
Acq: 11 Nov 2021 20:11

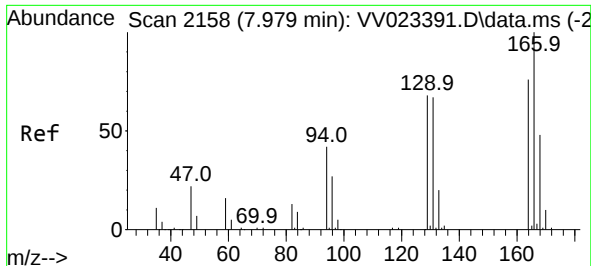
Tgt Ion: 91 Resp: 19533

Ion Ratio Lower Upper

91 100

92 62.2 39.3 72.9





#47

Tetrachloroethene

Concen: 0.491 ug/L

RT: 7.976 min Scan# 2158

Delta R.T. -0.003 min

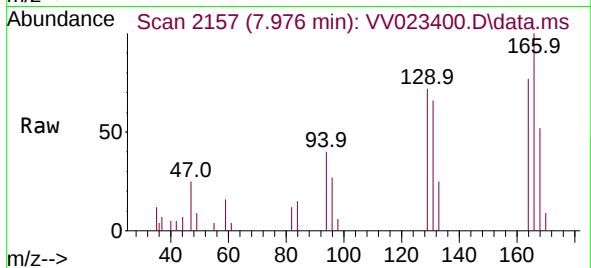
Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 3643

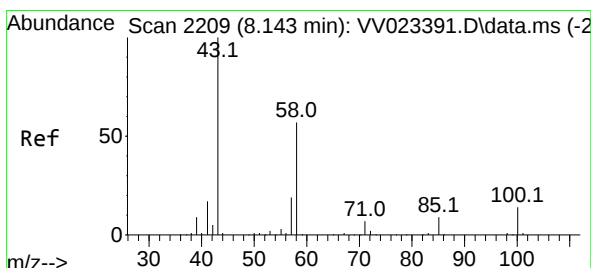
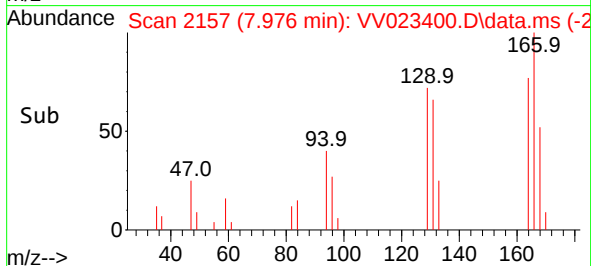
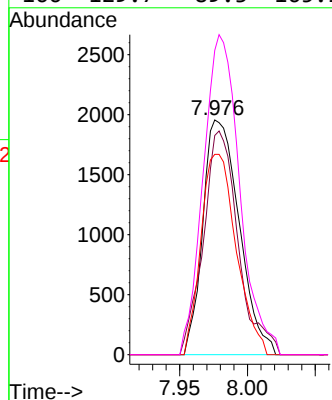
Ion Ratio Lower Upper

164 100

129 93.4 64.0 119.0

131 85.4 63.4 117.8

166 129.7 89.3 165.9



#48

2-Hexanone

Concen: 1.177 ug/L

RT: 8.153 min Scan# 2212

Delta R.T. 0.010 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Tgt Ion: 43 Resp: 2878

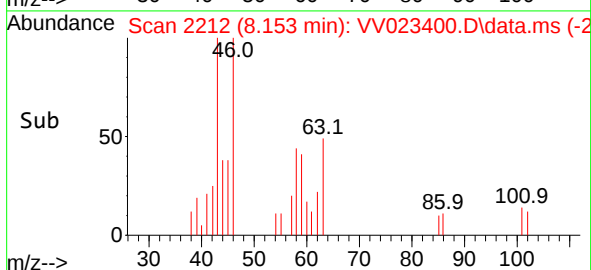
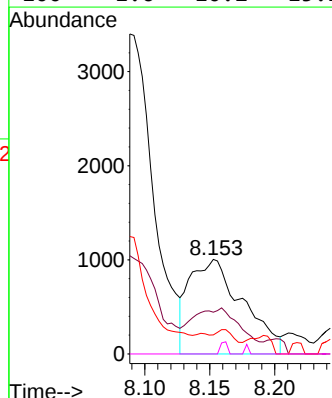
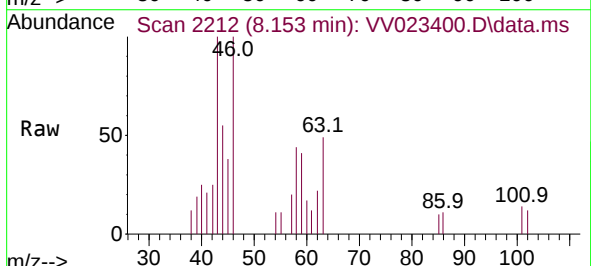
Ion Ratio Lower Upper

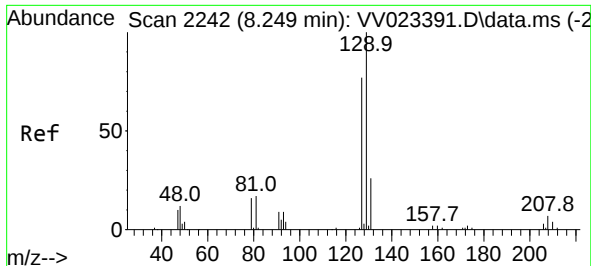
43 100

58 45.5 43.7 65.5

57 10.6 14.1 21.1#

100 1.6 10.2 15.2#





#49

Dibromochloromethane

Concen: 0.474 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.270 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

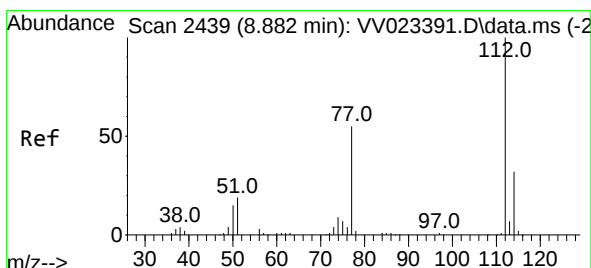
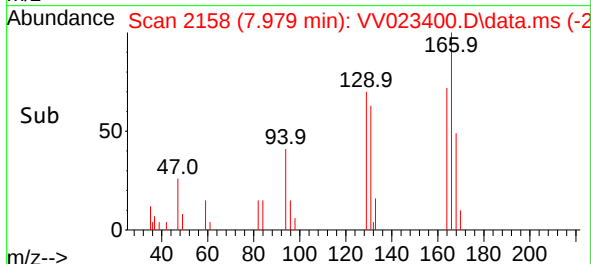
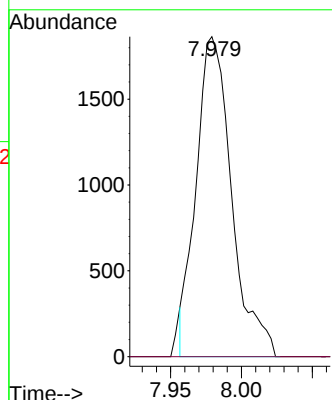
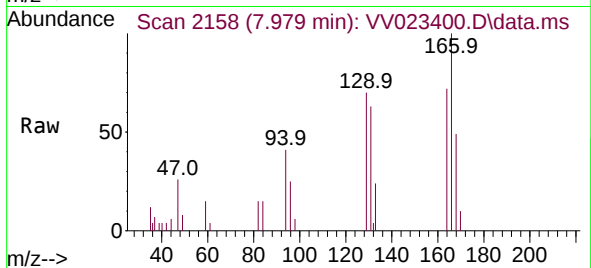
ClientSampleId :

Tgt Ion:129 Resp: 3249

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#51

Chlorobenzene

Concen: 8.136 ug/L

RT: 8.883 min Scan# 2439

Delta R.T. 0.000 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

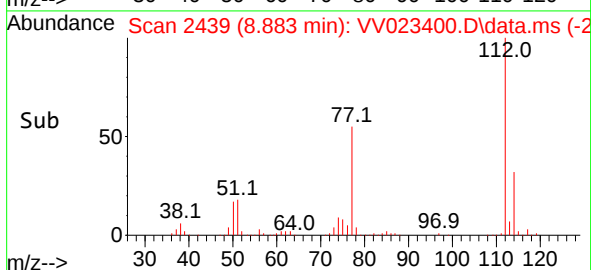
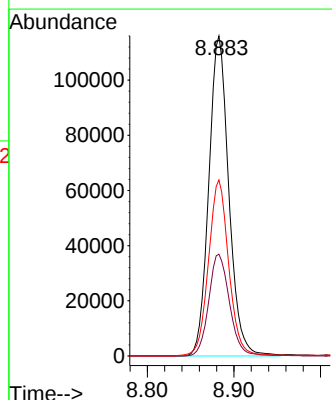
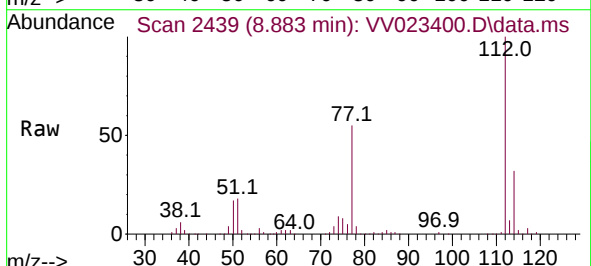
Tgt Ion:112 Resp: 186352

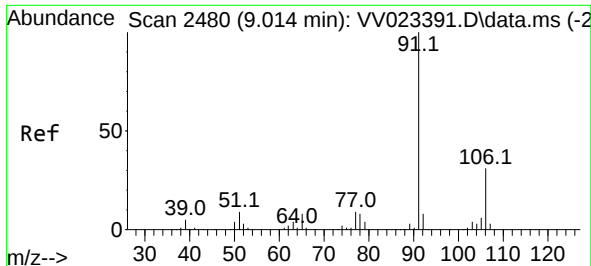
Ion Ratio Lower Upper

112 100

114 31.8 22.0 40.8

77 55.0 44.4 66.6

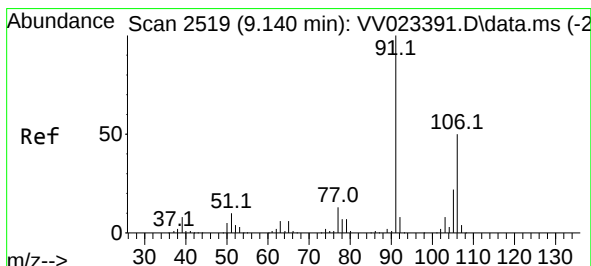
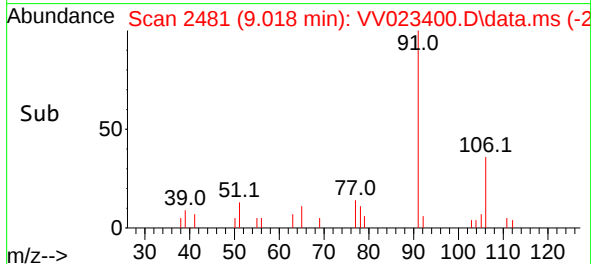
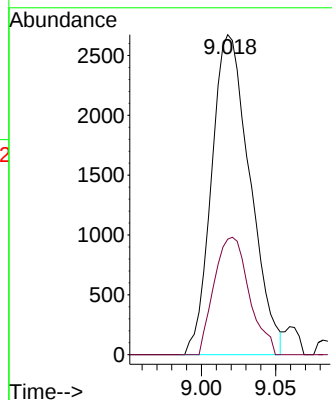
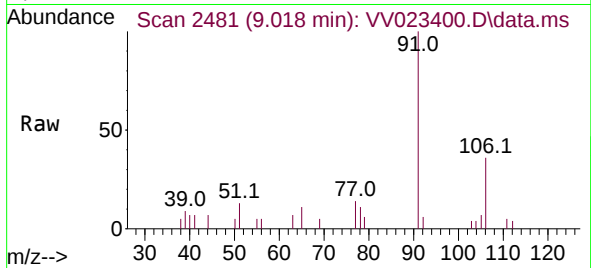




#52
Ethylbenzene
Concen: 0.132 ug/L
RT: 9.018 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

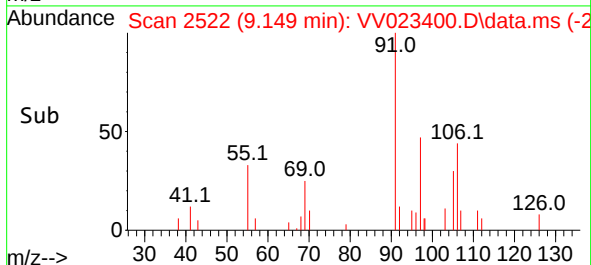
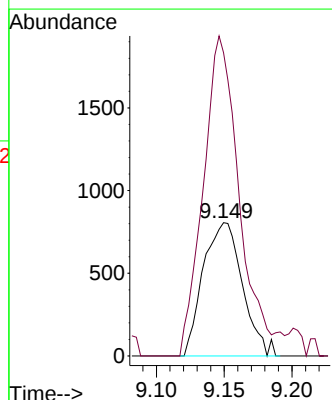
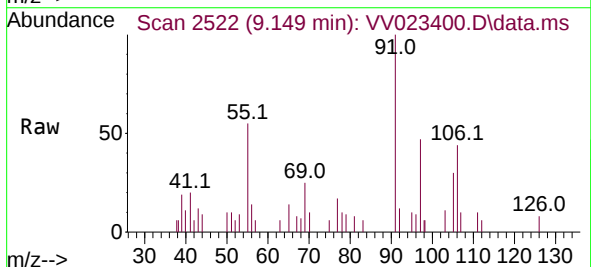
Instrument :
MSVOA_V
ClientSampleId :

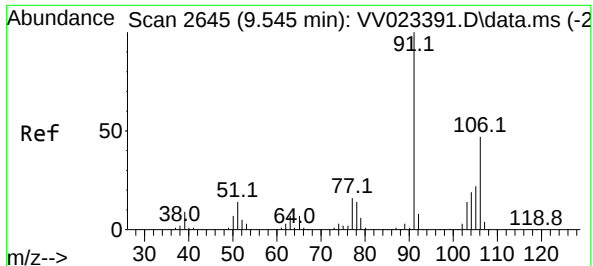
Tgt Ion: 91 Resp: 4803
Ion Ratio Lower Upper
91 100
106 36.1 22.5 41.9



#53
m,p-xylene
Concen: 0.114 ug/L
RT: 9.149 min Scan# 2522
Delta R.T. 0.010 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Tgt Ion: 106 Resp: 1621
Ion Ratio Lower Upper
106 100
91 227.4 137.2 254.8

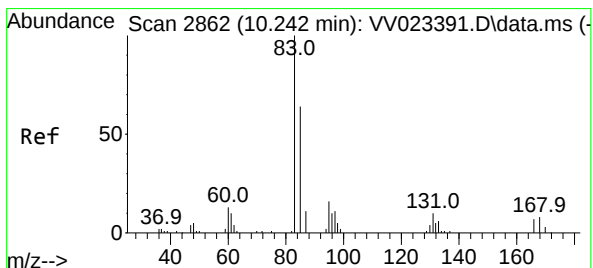
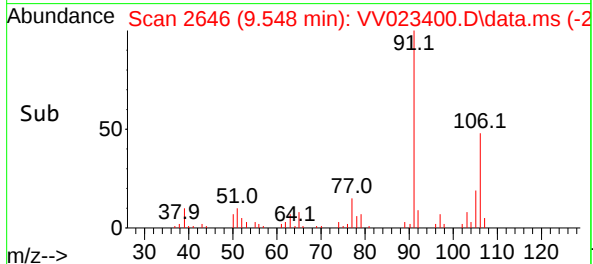
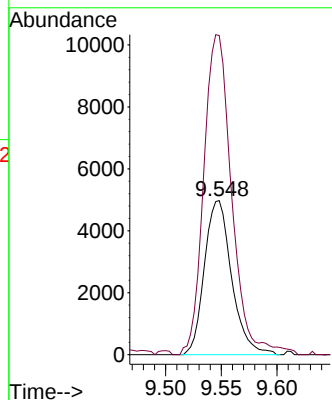
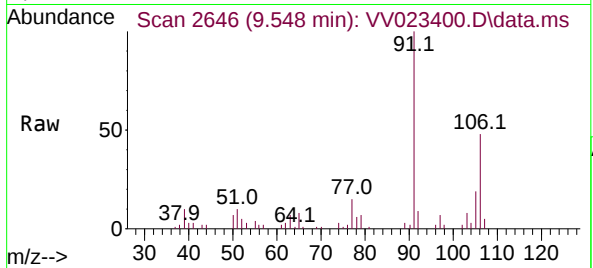




#54
o-xylene
Concen: 0.633 ug/L
RT: 9.548 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

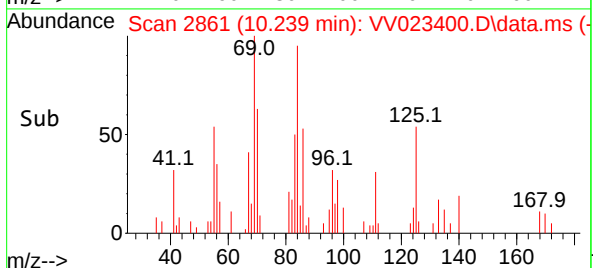
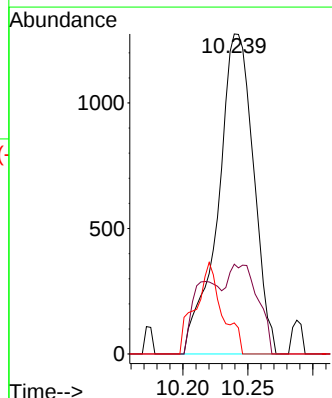
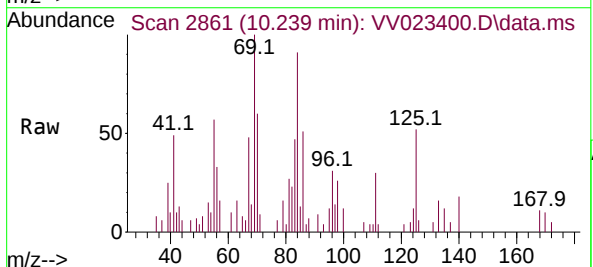
Instrument :
MSVOA_V
ClientSampleId :

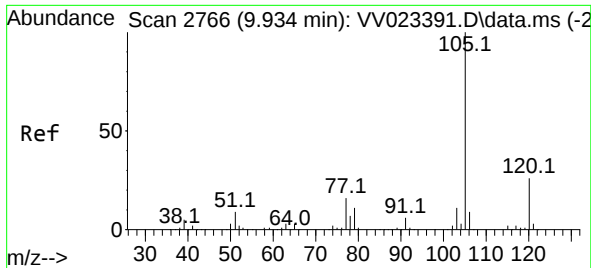
Tgt Ion:106 Resp: 8464
Ion Ratio Lower Upper
106 100
91 207.2 148.3 275.5



#57
1,1,2,2-Tetrachloroethane
Concen: 0.409 ug/L
RT: 10.239 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Tgt Ion: 83 Resp: 2422
Ion Ratio Lower Upper
83 100
85 28.1 45.1 83.9#
131 9.7 7.8 11.6

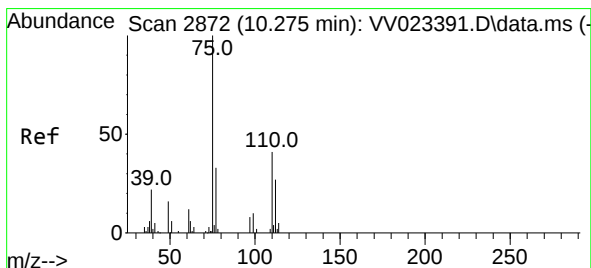
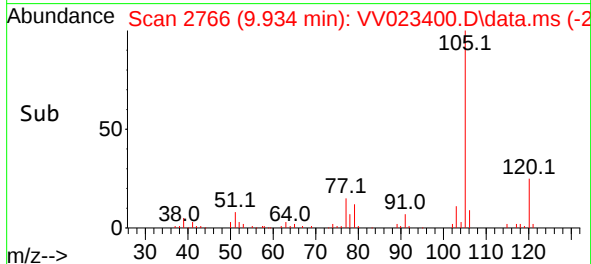
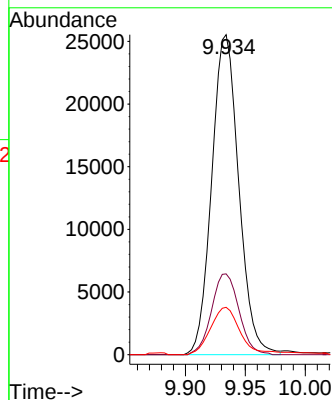
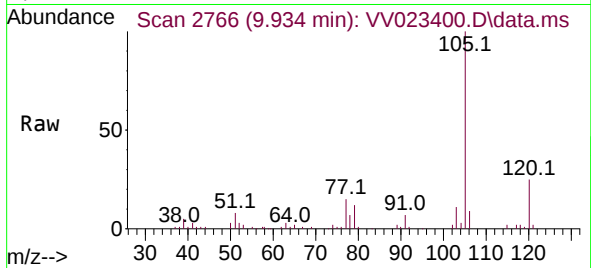




#60
Isopropylbenzene
Concen: 1.101 ug/L
RT: 9.934 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

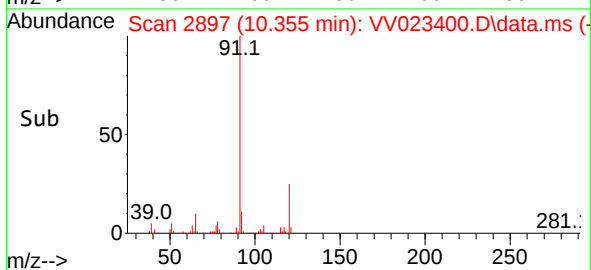
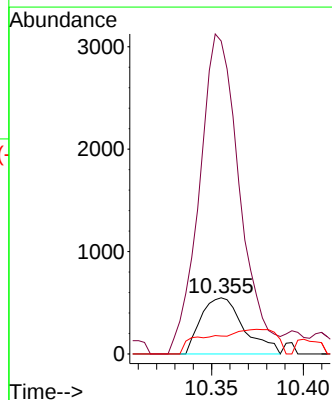
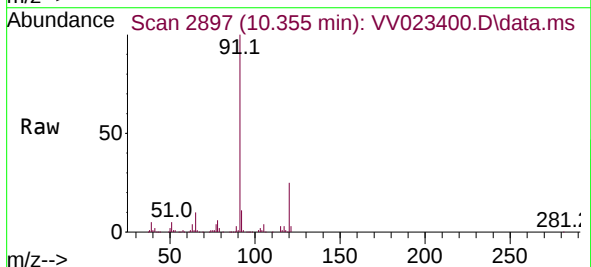
Instrument :
MSVOA_V
ClientSampleId :

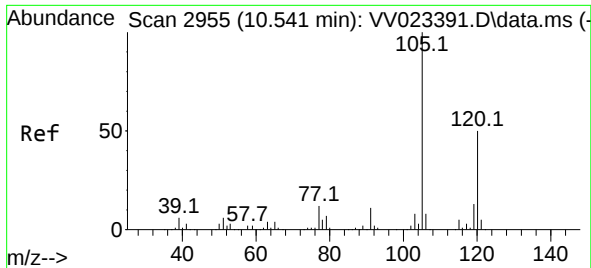
Tgt Ion:105 Resp: 39965
Ion Ratio Lower Upper
105 100
120 25.6 21.7 32.5
77 17.1 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 0.212 ug/L
RT: 10.355 min Scan# 2897
Delta R.T. 0.081 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Tgt Ion: 75 Resp: 890
Ion Ratio Lower Upper
75 100
77 534.5 26.6 39.8#
110 70.6 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 18.834 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.373 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

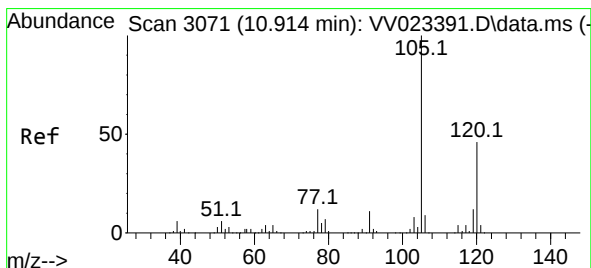
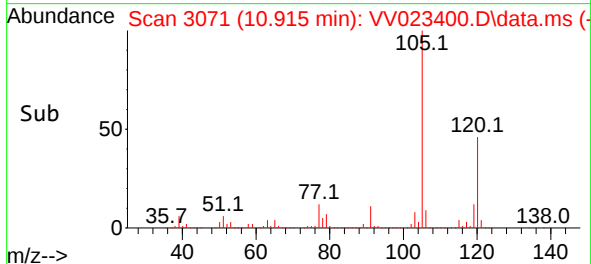
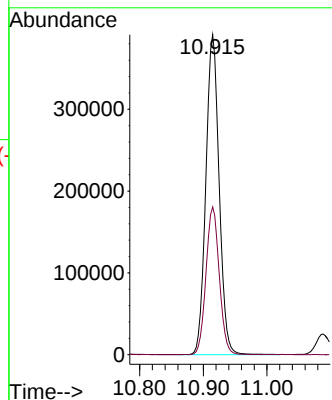
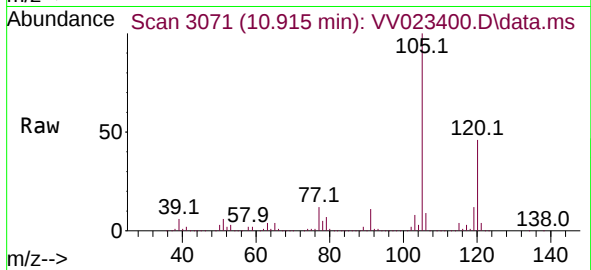
ClientSampleId :

Tgt Ion:105 Resp: 566667

Ion Ratio Lower Upper

105 100

120 46.1 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 18.923 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.000 min

Lab File: VV023400.D

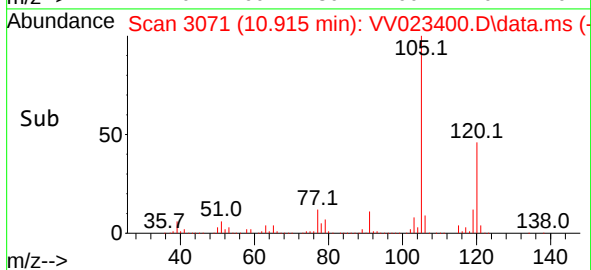
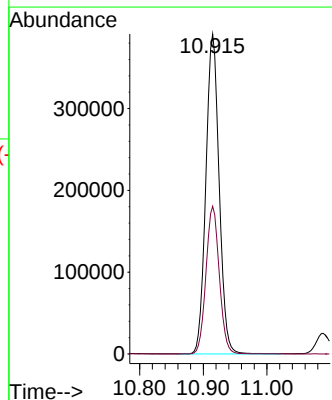
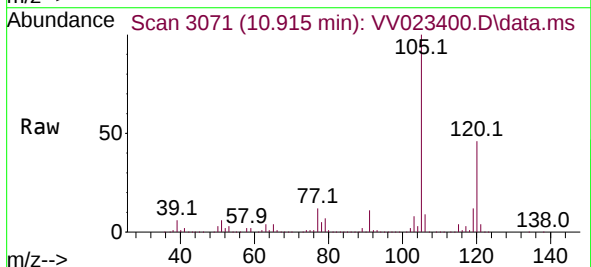
Acq: 11 Nov 2021 20:11

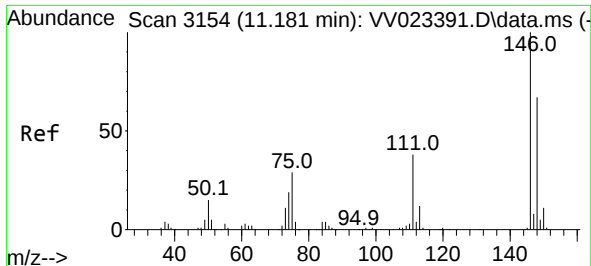
Tgt Ion:105 Resp: 566667

Ion Ratio Lower Upper

105 100

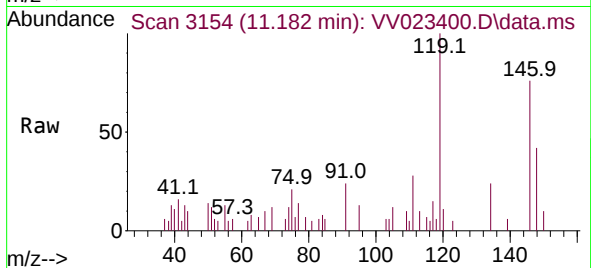
120 46.1 37.4 56.2



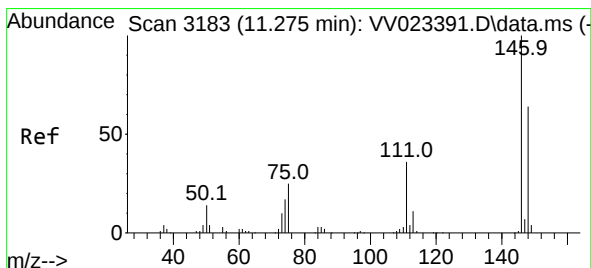
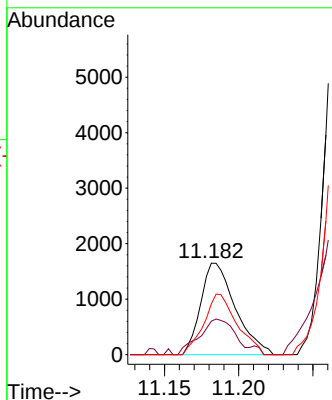
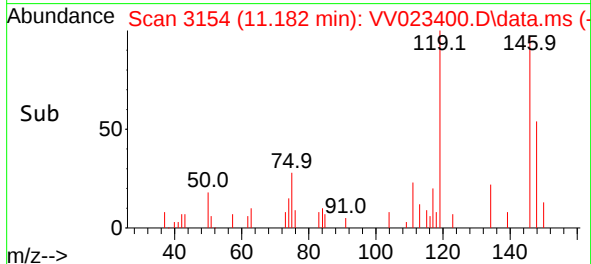


#64
1,3-Dichlorobenzene
Concen: 0.144 ug/L
RT: 11.182 min Scan# 3154
Delta R.T. 0.000 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

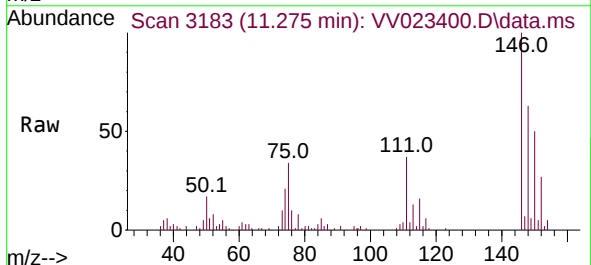
Instrument :
MSVOA_V
ClientSampleId :



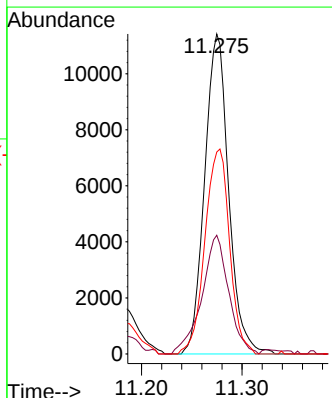
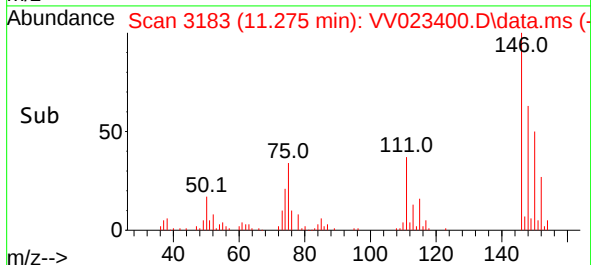
Tgt Ion:146 Resp: 2677
Ion Ratio Lower Upper
146 100
111 36.5 26.7 49.7
148 55.5 42.9 79.7

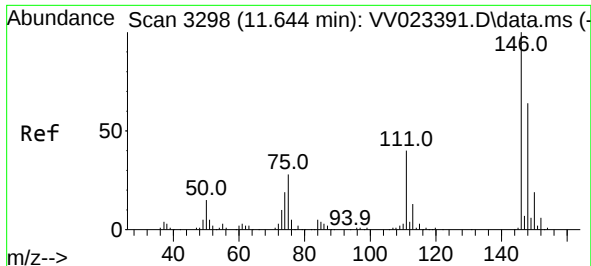


#65
1,4-Dichlorobenzene
Concen: 0.999 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11



Tgt Ion:146 Resp: 18916
Ion Ratio Lower Upper
146 100
111 37.1 26.2 48.8
148 63.1 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 1.072 ug/L

RT: 11.645 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

Instrument :

MSVOA_V

ClientSampleId :

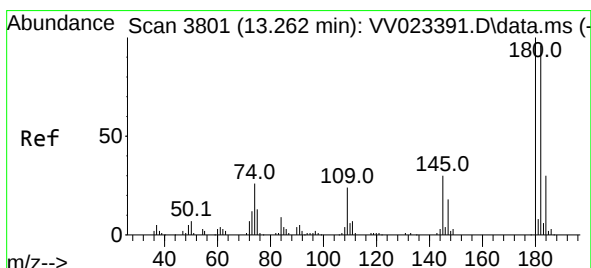
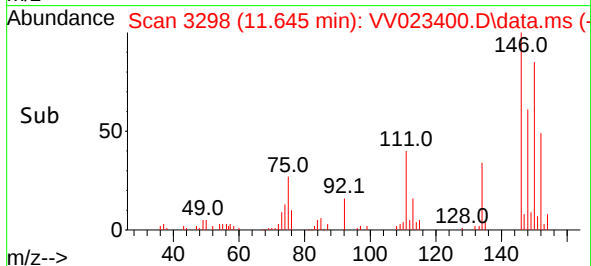
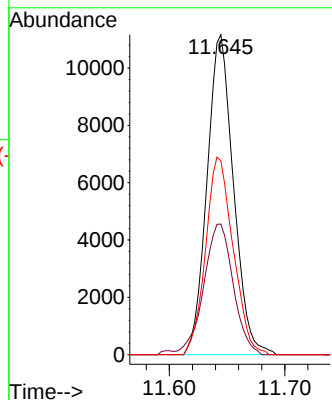
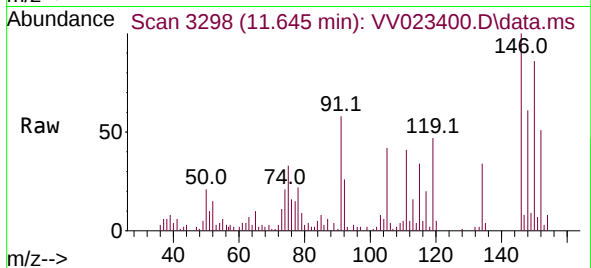
Tgt Ion:146 Resp: 17789

Ion Ratio Lower Upper

146 100

111 40.8 31.6 47.4

148 60.6 51.0 76.6



#70

1,2,4-trichlorobenzene

Concen: 0.083 ug/L

RT: 13.265 min Scan# 3802

Delta R.T. 0.003 min

Lab File: VV023400.D

Acq: 11 Nov 2021 20:11

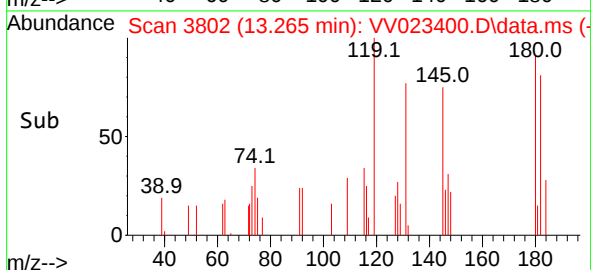
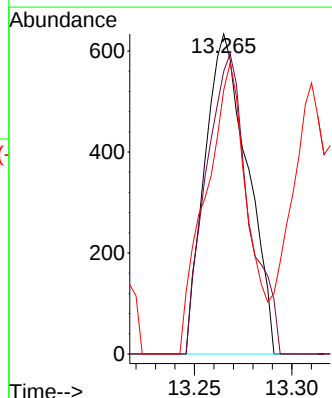
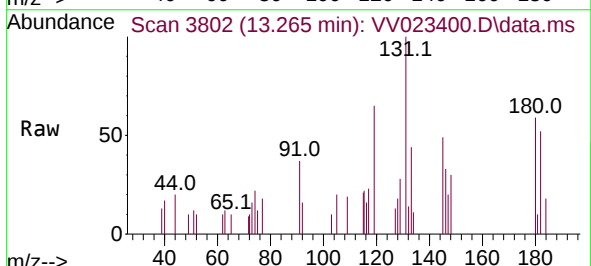
Tgt Ion:180 Resp: 963

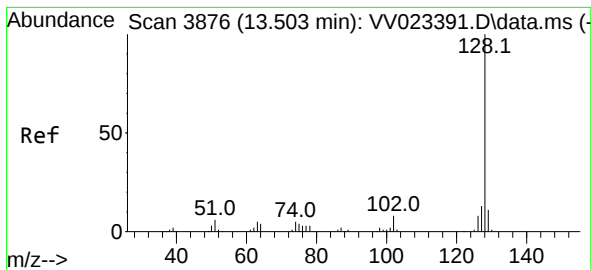
Ion Ratio Lower Upper

180 100

182 93.0 76.9 115.3

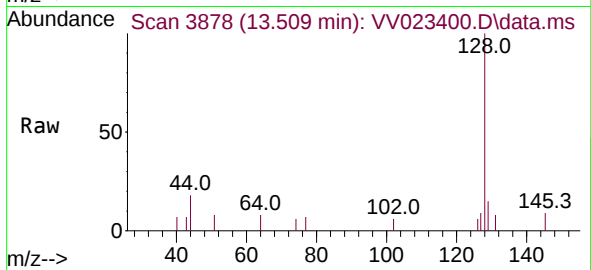
145 87.9 24.4 36.6#





#71
Naphthalene
Concen: 0.202 ug/L
RT: 13.509 min Scan# 3878
Delta R.T. 0.007 min
Lab File: VV023400.D
Acq: 11 Nov 2021 20:11

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 3458
Ion Ratio Lower Upper
128 100
129 9.6 8.6 13.0
127 7.8 10.5 15.7#

