

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102621\
 Data File : VW023035.D
 Acq On : 26 Oct 2021 13:41
 Operator : SY/MD
 Sample : M4278-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 27 01:32:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102221WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 27 01:29:33 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	139991	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	143151	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	61219	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	48898	3.997	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.000%
7) Chloroethane-d5	1.568	69	30517	4.033	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.600%
11) 1,1-Dichloroethene-d2	2.108	63	56072	3.177	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.600%
20) 2-Butanone-d5	3.889	46	112553	57.358	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.720%
24) Chloroform-d	4.352	84	96177	4.836	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.800%
26) 1,2-Dichloroethane-d4	5.034	65	44743	4.773	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	5.053	84	192903	4.616	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.400%
36) 1,2-Dichloropropane-d6	6.072	67	61167	4.754	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.000%
41) Toluene-d8	7.317	98	161116	4.292	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.800%
43) trans-1,3-Dichloroprop...	7.625	79	19822	4.397	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.000%
46) 2-Hexanone-d5	8.092	63	74987	44.931	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.860%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	38751	4.362	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	60332	5.523	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	1717	0.173	ug/L #	55
12) 1,1-Dichloroethene	2.114	96	685	0.096	ug/L #	1
13) Acetone	2.175	43	2792	2.900	ug/L	67
16) Methylene chloride	2.507	84	21064	2.676	ug/L	94
17) Methyl tert-butyl Ether	2.770	73	7403	0.433	ug/L #	92
18) trans-1,2-Dichloroethene	2.764	96	758	0.099	ug/L	83
19) 1,1-Dichloroethane	3.195	63	1543	0.110	ug/L	93
22) cis-1,2-Dichloroethene	3.912	96	117082	13.496	ug/L #	91
25) Chloroform	4.378	83	6327	0.341	ug/L	91
33) Benzene	5.108	78	2988	0.078	ug/L	100
34) Trichloroethene	5.921	95	18810	1.944	ug/L	99
35) Methylcyclohexane	6.072	83	14794	1.068	ug/L #	18
37) 1,2-Dichloropropane	6.072	63	6566	0.676	ug/L #	83
39) cis-1,3-Dichloropropene	6.989	75	1835	0.152	ug/L #	62
42) Toluene	7.397	91	18275	0.468	ug/L	100
45) 1,1,2-Trichloroethane	7.976	97	689	0.101	ug/L #	10
47) Tetrachloroethene	7.976	164	86786	10.615	ug/L	97
48) 2-Hexanone	8.149	43	6817	2.009	ug/L #	49
49) Dibromochloromethane	7.976	129	77340	9.569	ug/L #	11

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

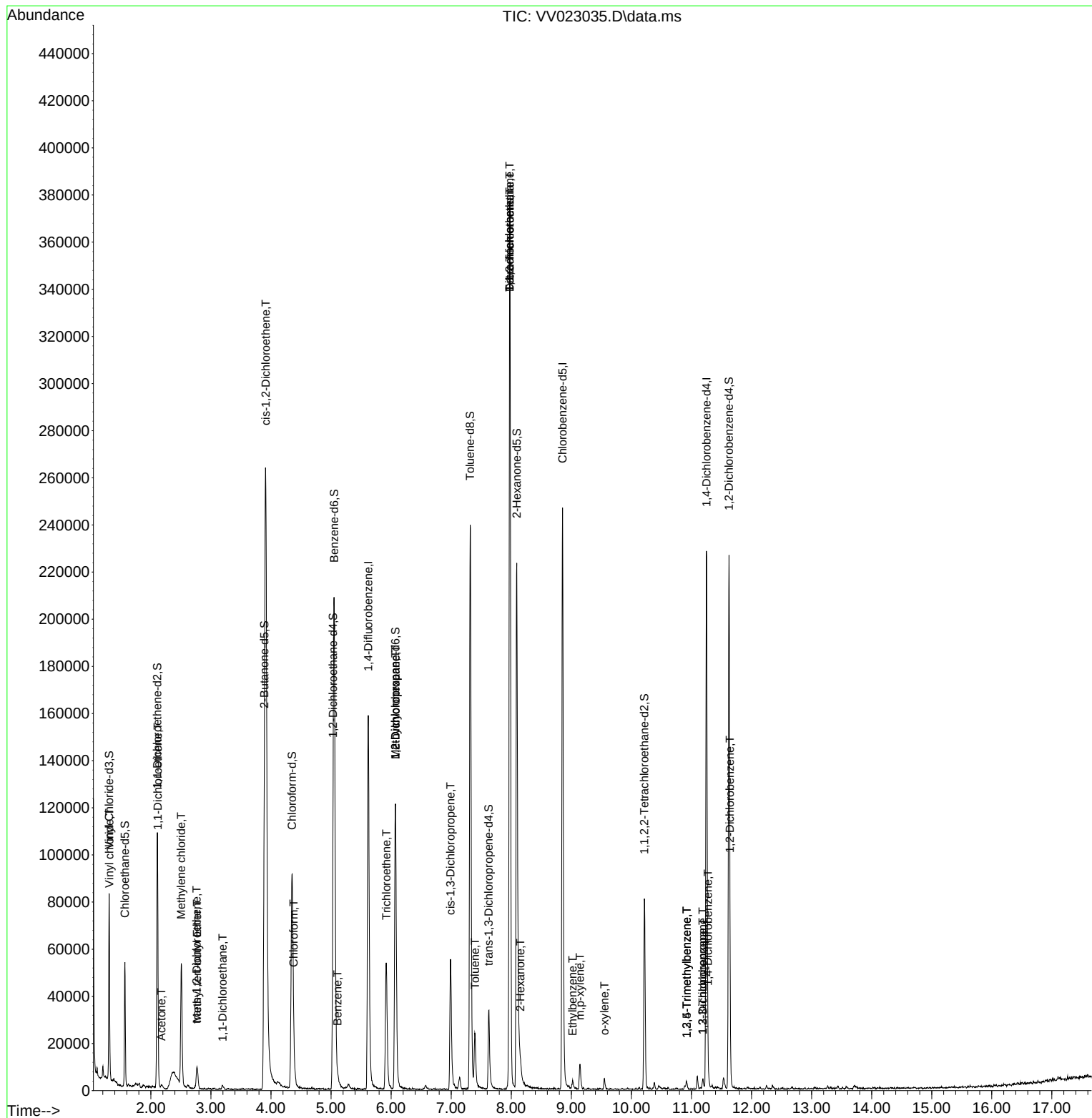
52) Ethylbenzene	9.021	91	2587	0.067	ug/L	99
53) m,p-xylene	9.143	106	3218	0.207	ug/L	97
54) o-xylene	9.554	106	1324	0.091	ug/L	65
61) 1,2,3-Trichloropropane	11.188	75	539	0.125	ug/L #	47
62) 1,3,5-Trimethylbenzene	10.921	105	1718	0.069	ug/L	94
63) 1,2,4-Trimethylbenzene	10.921	105	1718	0.069	ug/L	89
64) 1,3-Dichlorobenzene	11.188	146	1961	0.120	ug/L	92
65) 1,4-Dichlorobenzene	11.275	146	1656	0.100	ug/L	92
67) 1,2-Dichlorobenzene	11.641	146	2067	0.136	ug/L	96

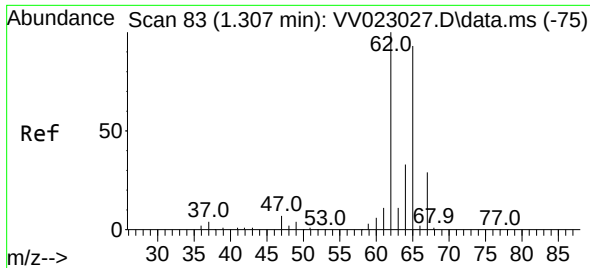
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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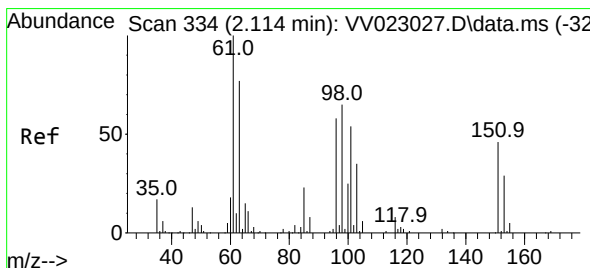
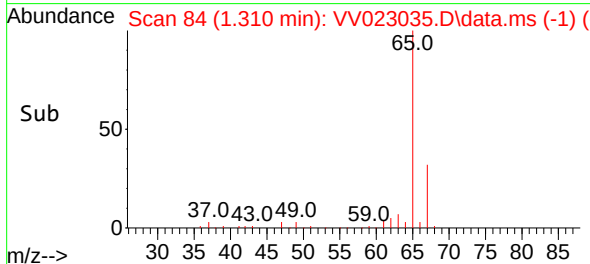
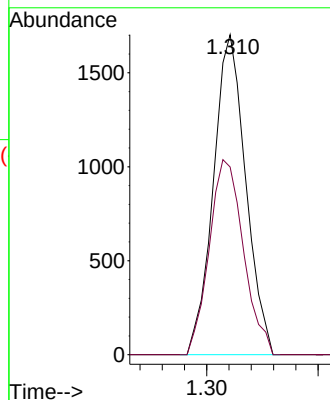
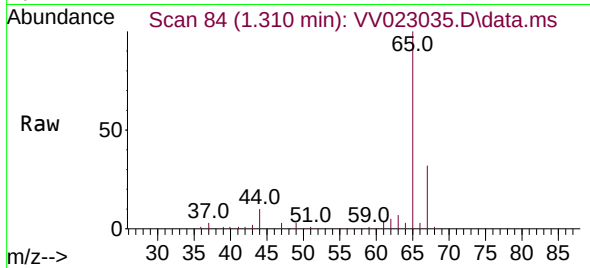




#5
 Vinyl chloride
 Concen: 0.173 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV023035.D
 Acq: 26 Oct 2021 13:41

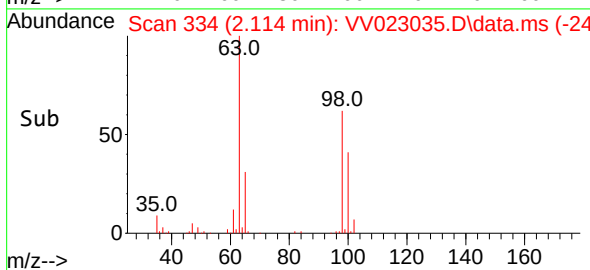
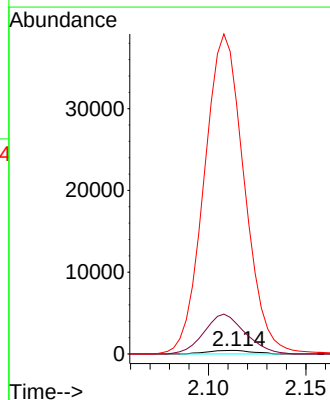
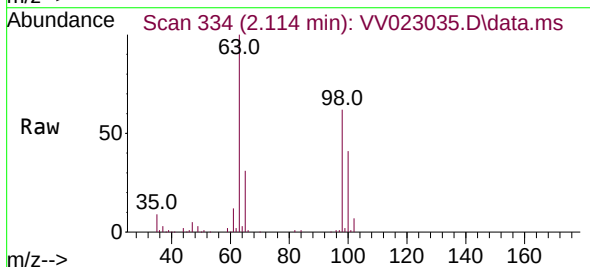
Instrument :
 MSVOA_V
 ClientSampleId :

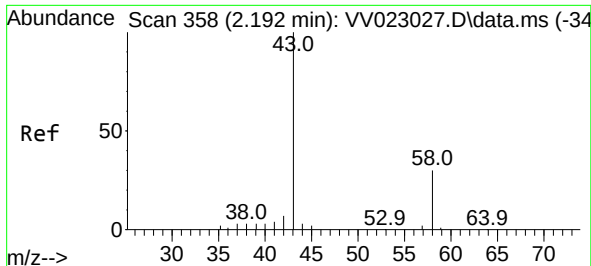
Tgt Ion: 62 Resp: 1717
 Ion Ratio Lower Upper
 62 100
 64 58.7 23.1 42.9#



#12
 1,1-Dichloroethene
 Concen: 0.096 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. -0.000 min
 Lab File: VV023035.D
 Acq: 26 Oct 2021 13:41

Tgt Ion: 96 Resp: 685
 Ion Ratio Lower Upper
 96 100
 61 871.4 121.5 225.7#
 63 7224.4 99.6 185.0#





#13

Acetone

Concen: 2.900 ug/L

RT: 2.175 min Scan# 3

Delta R.T. -0.016 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

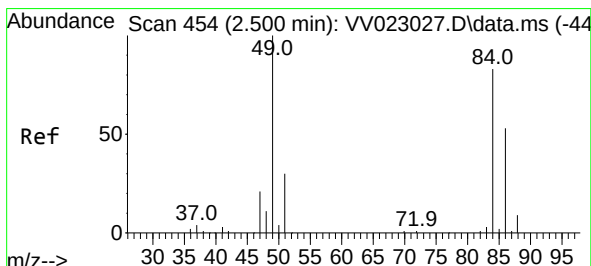
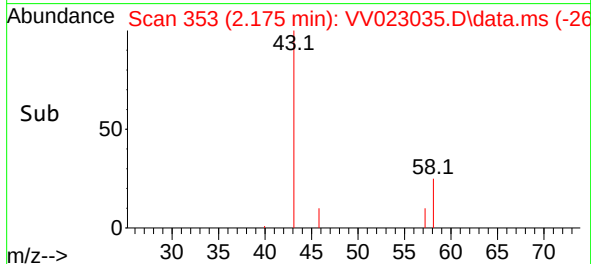
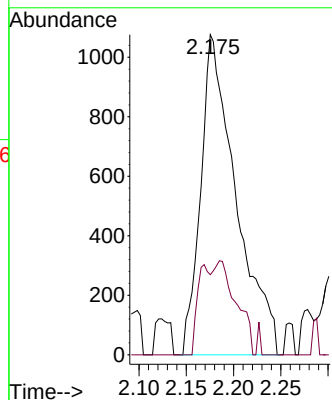
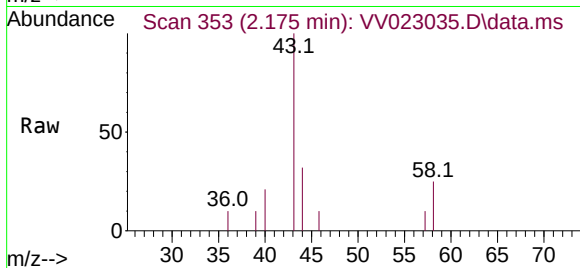
ClientSampleId :

Tgt Ion: 43 Resp: 2792

Ion Ratio Lower Upper

43 100

58 10.4 0.0 55.4



#16

Methylene chloride

Concen: 2.676 ug/L

RT: 2.507 min Scan# 456

Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

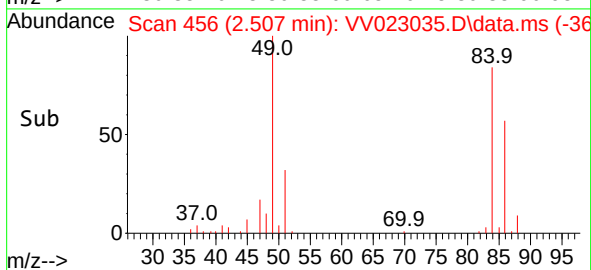
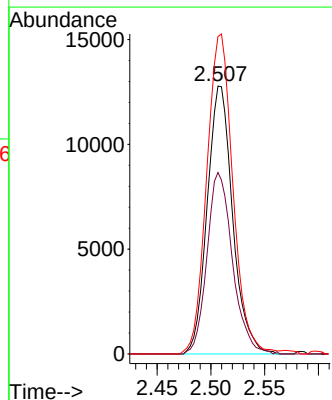
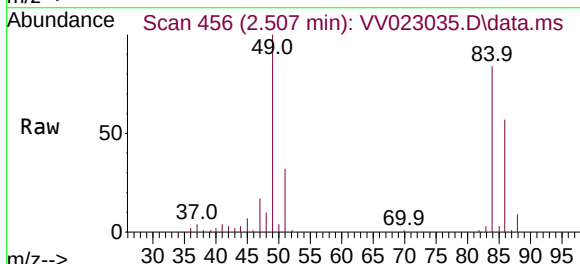
Tgt Ion: 84 Resp: 21064

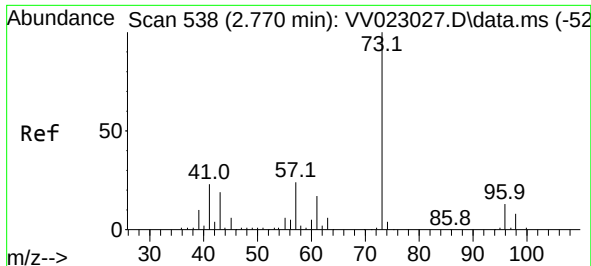
Ion Ratio Lower Upper

84 100

86 67.8 42.3 78.5

49 118.5 79.7 148.1

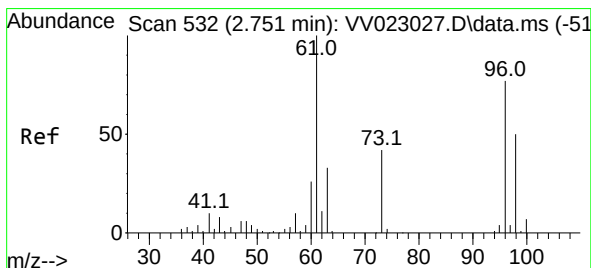
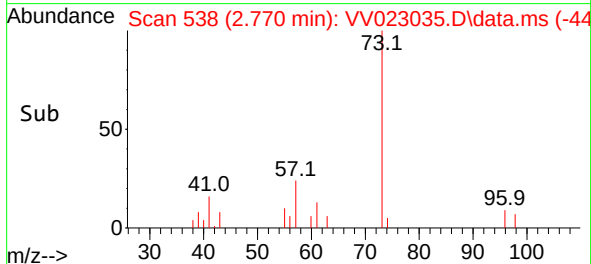
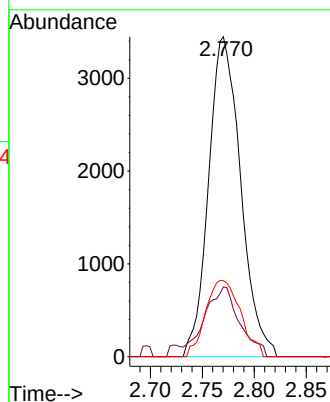
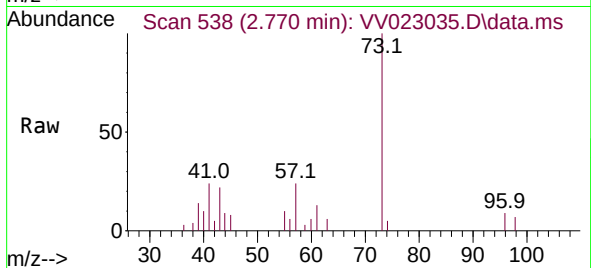




#17
Methyl tert-butyl Ether
Concen: 0.433 ug/L
RT: 2.770 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

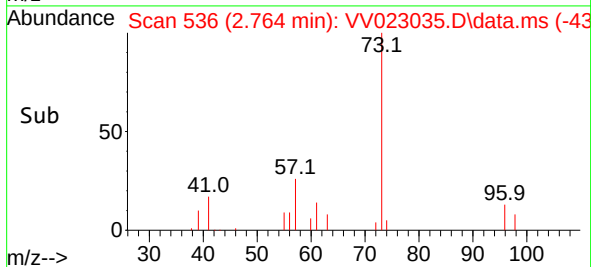
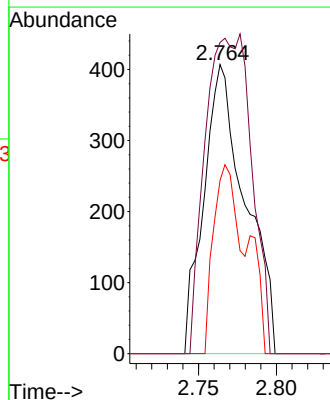
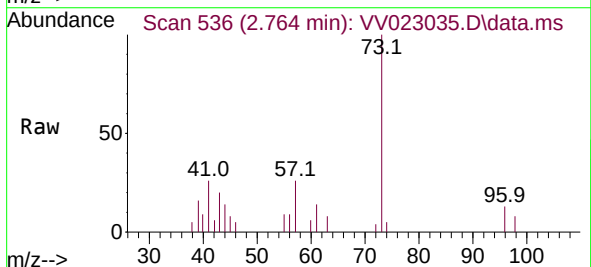
Instrument :
MSVOA_V
ClientSampleId :

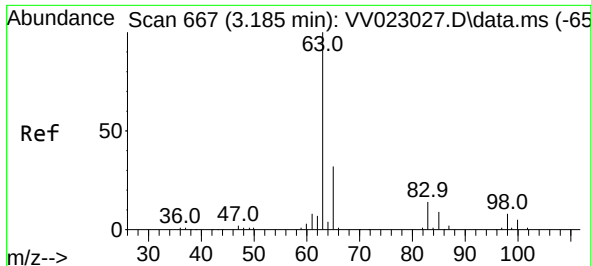
Tgt Ion: 73 Resp: 7403
Ion Ratio Lower Upper
73 100
43 23.8 17.4 26.0
57 25.9 16.5 24.7#



#18
trans-1,2-Dichloroethene
Concen: 0.099 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.013 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion: 96 Resp: 758
Ion Ratio Lower Upper
96 100
61 107.6 93.2 173.2
98 60.0 47.0 87.2





#19

1,1-Dichloroethane

Concen: 0.110 ug/L

RT: 3.195 min Scan# 6

Delta R.T. 0.010 min

Lab File: VV023035.D

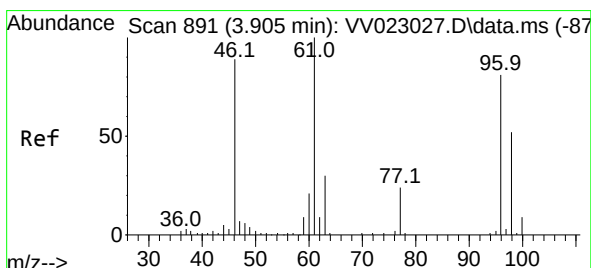
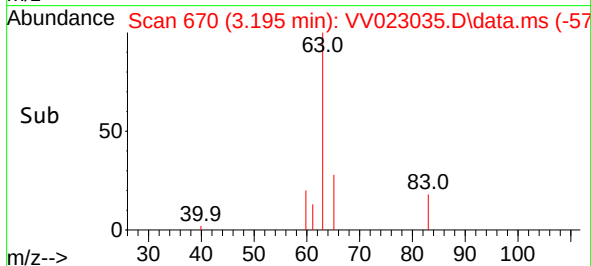
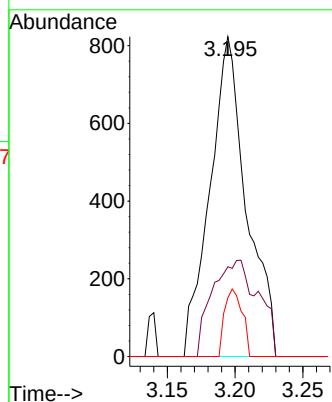
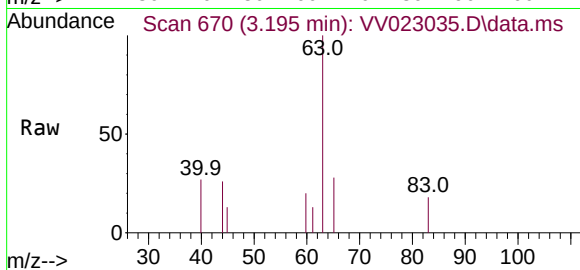
Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63	Resp: 1543
Ion Ratio	Lower Upper
63 100	
65 28.1	22.6 42.0
83 18.3	11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 13.496 ug/L

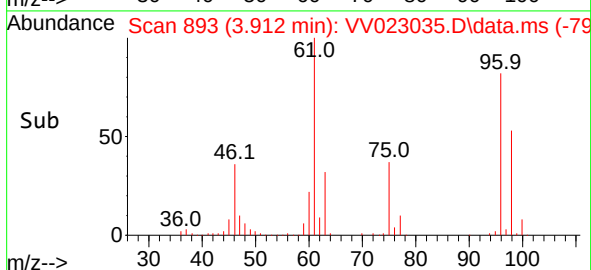
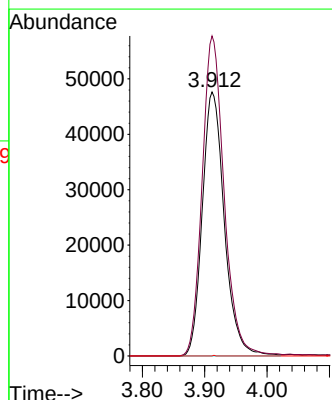
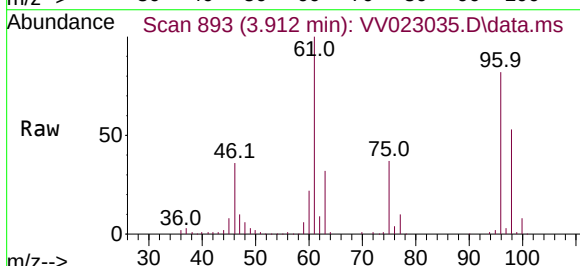
RT: 3.912 min Scan# 893

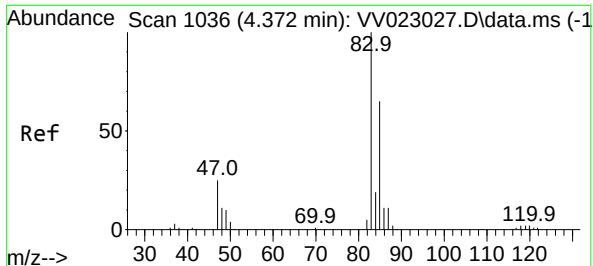
Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Tgt Ion: 96	Resp: 117082
Ion Ratio	Lower Upper
96 100	
61 121.2	92.3 171.3
68 0.0	0.4 0.8





#25

Chloroform

Concen: 0.341 ug/L

RT: 4.378 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

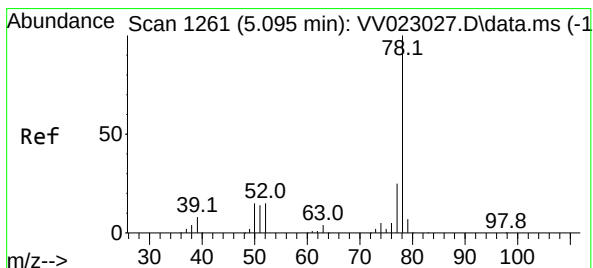
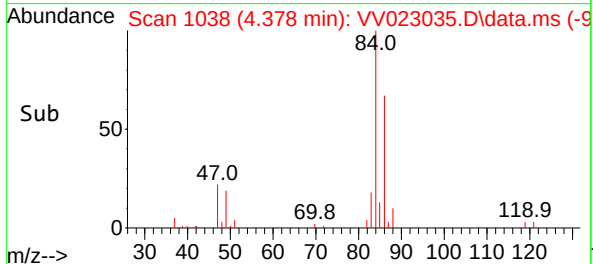
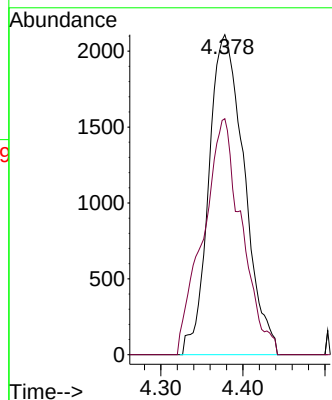
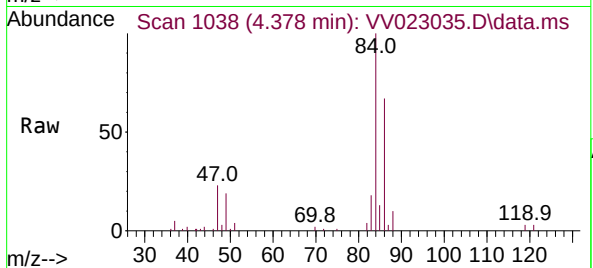
ClientSampleId :

Tgt Ion: 83 Resp: 6327

Ion Ratio Lower Upper

83 100

85 73.8 46.8 86.8



#33

Benzene

Concen: 0.078 ug/L

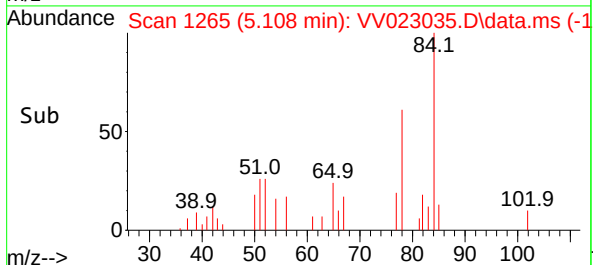
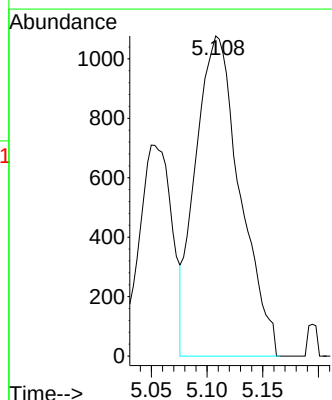
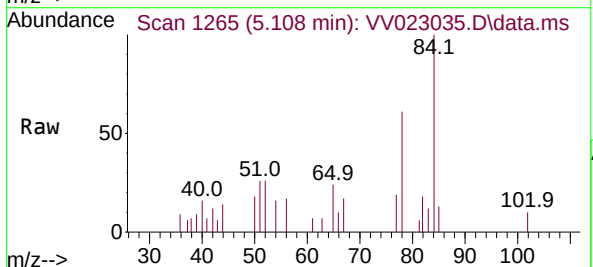
RT: 5.108 min Scan# 1265

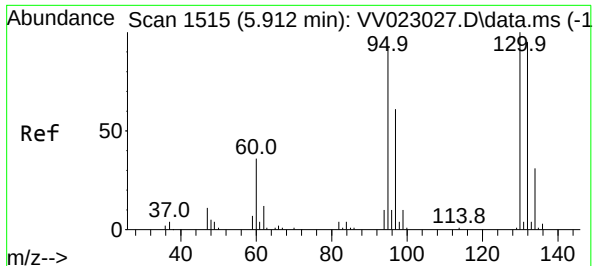
Delta R.T. 0.013 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

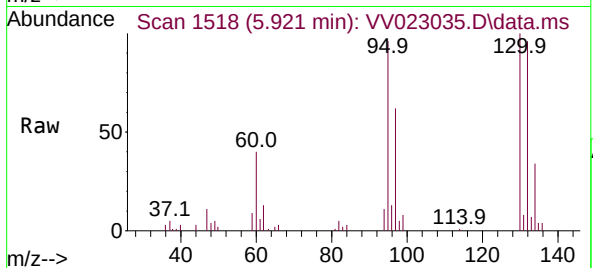
Tgt Ion: 78 Resp: 2988



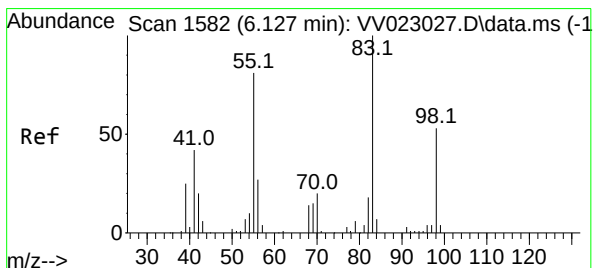
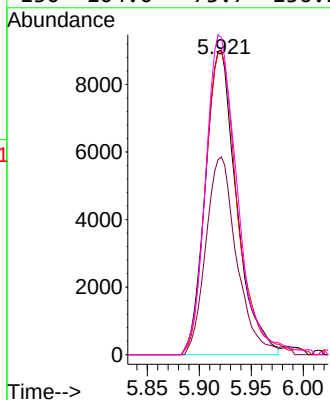
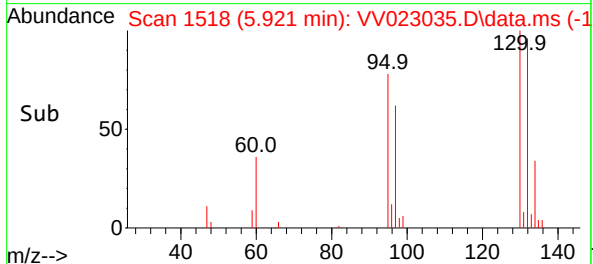


#34
Trichloroethene
Concen: 1.944 ug/L
RT: 5.921 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV023035.D
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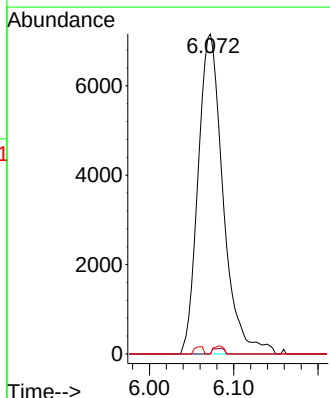
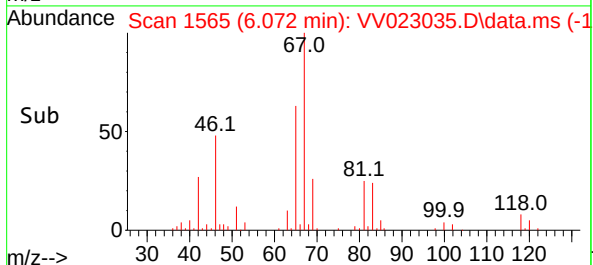
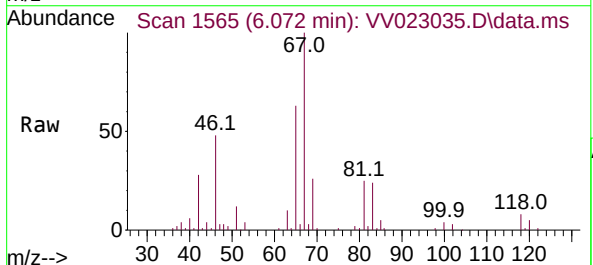


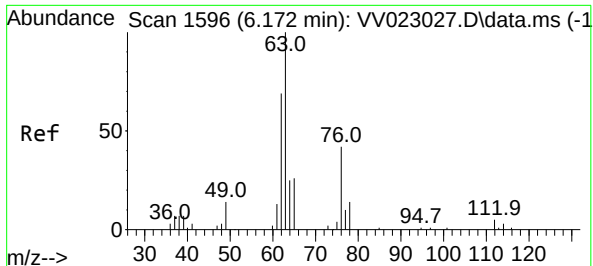
Tgt Ion: 95 Resp: 18810
Ion Ratio Lower Upper
95 100
97 64.9 45.0 83.6
132 99.6 69.7 129.4
130 104.0 73.7 136.9



#35
Methylcyclohexane
Concen: 1.068 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.055 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion: 83 Resp: 14794
Ion Ratio Lower Upper
83 100
55 0.8 62.8 94.2#
98 1.0 37.9 56.9#





#37

1,2-Dichloropropane

Concen: 0.676 ug/L

RT: 6.072 min Scan# 11

Delta R.T. -0.100 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

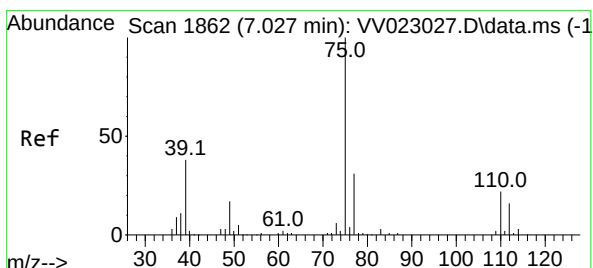
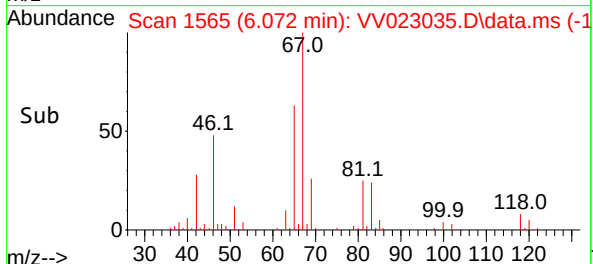
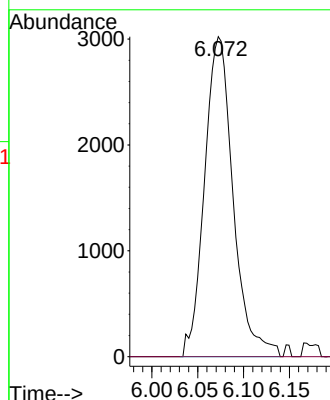
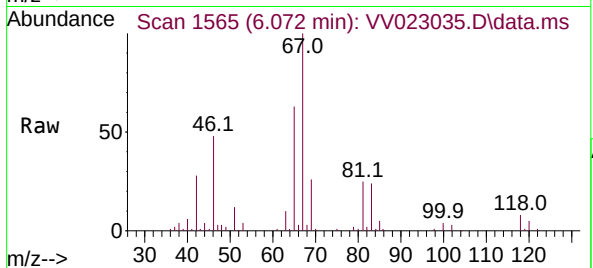
ClientSampleId :

Tgt Ion: 63 Resp: 6566

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.152 ug/L

RT: 6.989 min Scan# 1850

Delta R.T. -0.039 min

Lab File: VV023035.D

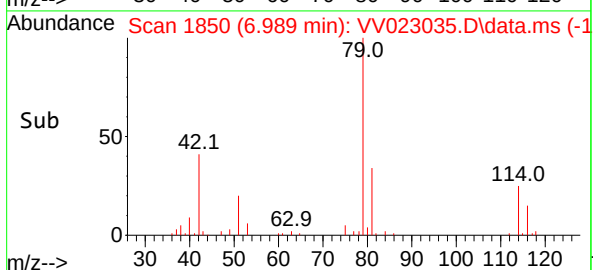
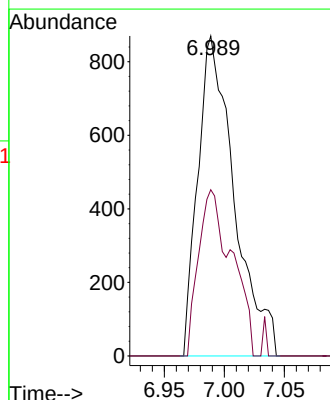
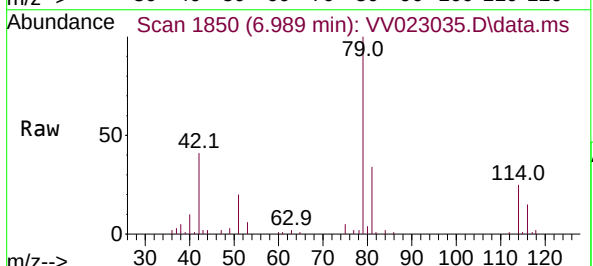
Acq: 26 Oct 2021 13:41

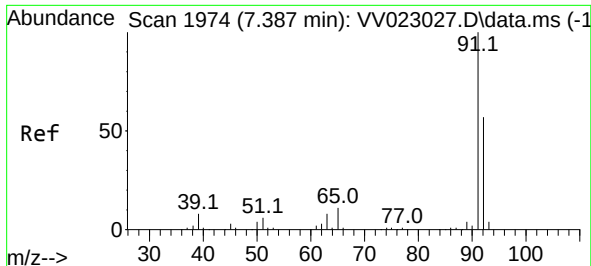
Tgt Ion: 75 Resp: 1835

Ion Ratio Lower Upper

75 100

77 52.0 21.6 40.2#

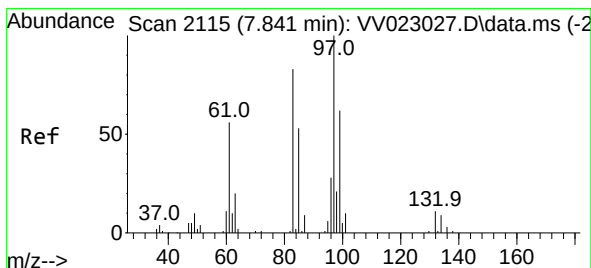
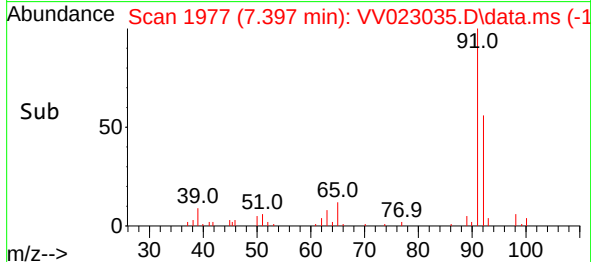
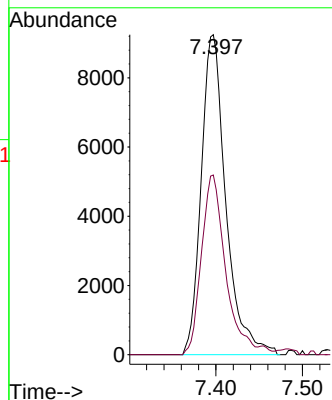
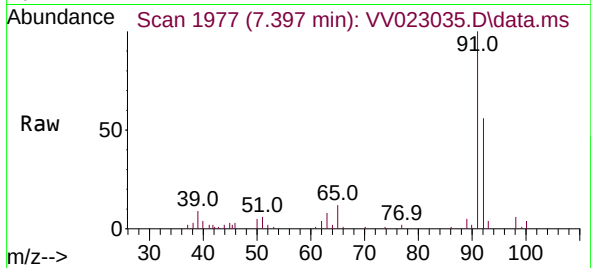




#42
Toluene
Concen: 0.468 ug/L
RT: 7.397 min Scan# 1974
Delta R.T. 0.010 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

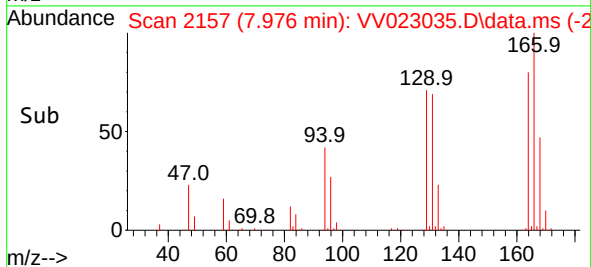
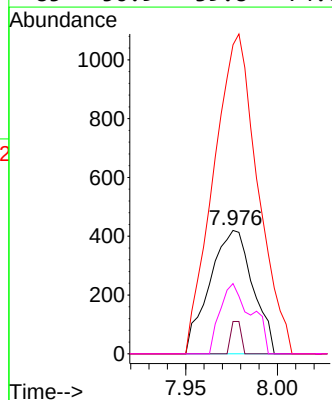
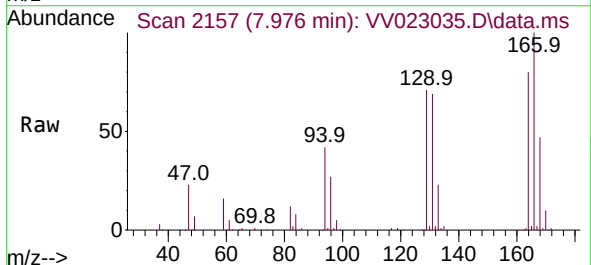
Instrument :
MSVOA_V
ClientSampleId :

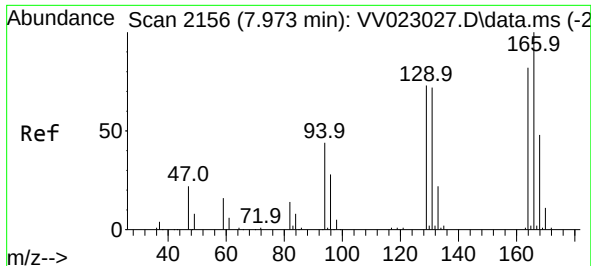
Tgt Ion: 91 Resp: 18275
Ion Ratio Lower Upper
91 100
92 56.1 39.3 72.9



#45
1,1,2-Trichloroethane
Concen: 0.101 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.135 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion: 97 Resp: 689
Ion Ratio Lower Upper
97 100
99 26.2 43.6 81.0#
83 250.2 58.4 108.4#
85 56.9 39.8 74.0





#47

Tetrachloroethene

Concen: 10.615 ug/L

RT: 7.976 min Scan# 2156

Delta R.T. 0.003 min

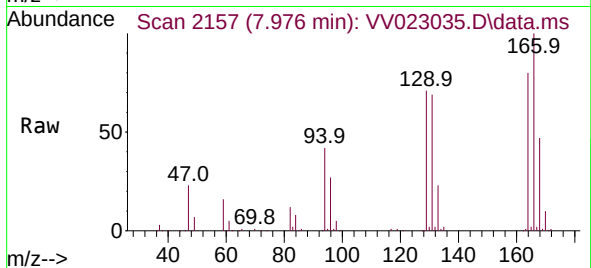
Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 86786

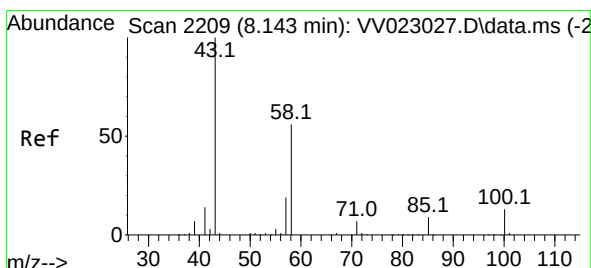
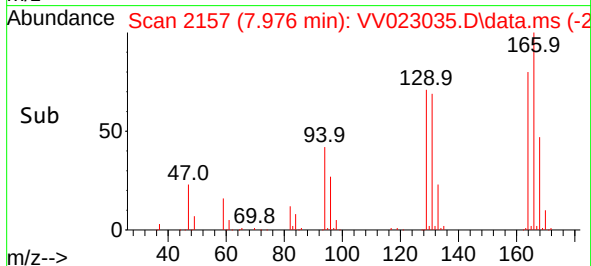
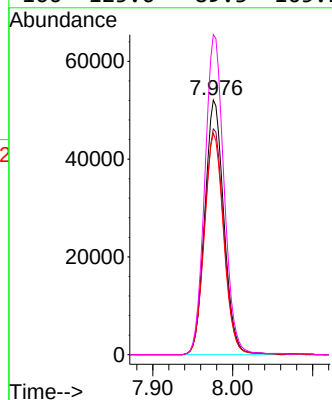
Ion Ratio Lower Upper

164 100

129 88.6 64.0 119.0

131 86.8 63.4 117.8

166 125.6 89.3 165.9



#48

2-Hexanone

Concen: 2.009 ug/L

RT: 8.149 min Scan# 2211

Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Tgt Ion: 43 Resp: 6817

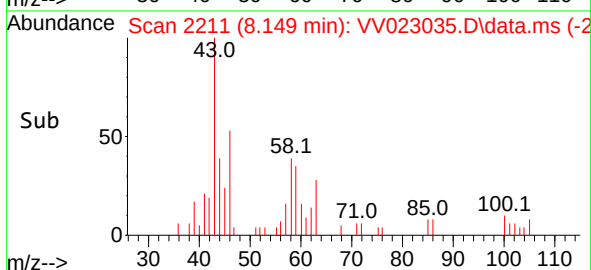
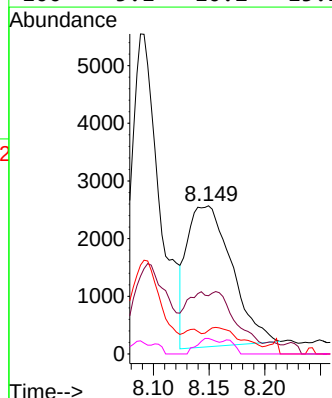
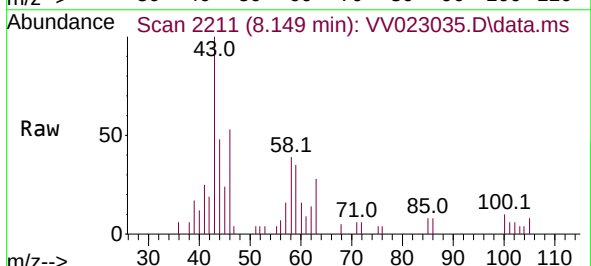
Ion Ratio Lower Upper

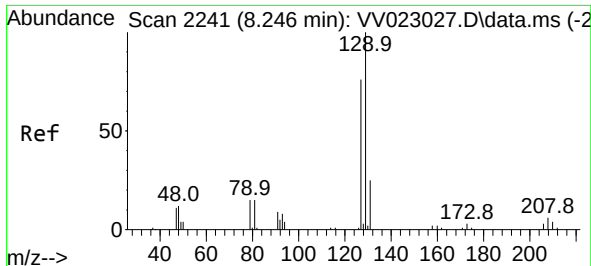
43 100

58 6.2 43.7 65.5#

57 6.7 14.1 21.1#

100 5.1 10.2 15.2#





#49

Dibromochloromethane

Concen: 9.569 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.270 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

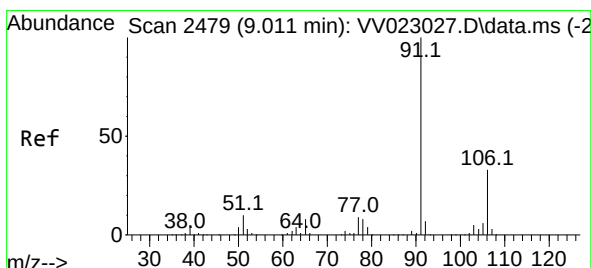
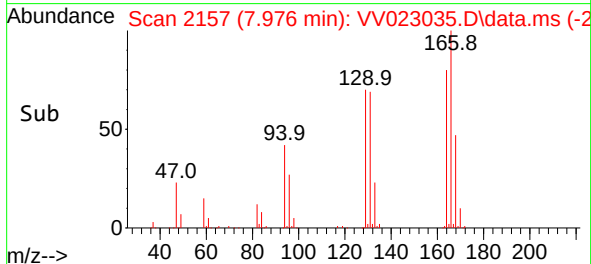
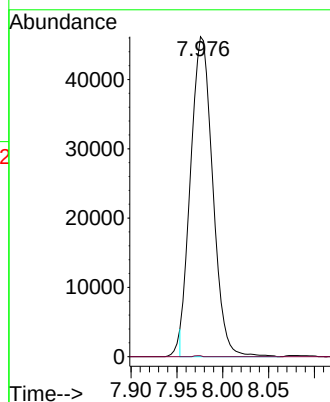
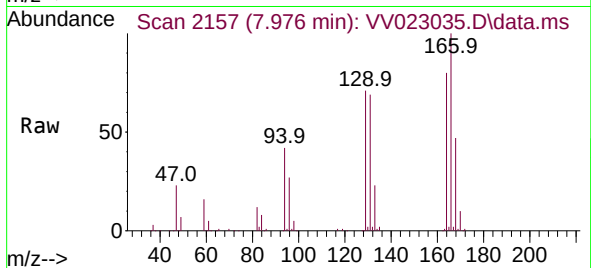
ClientSampleId :

Tgt Ion:129 Resp: 77340

Ion Ratio Lower Upper

129 100

127 0.3 54.7 101.7#



#52

Ethylbenzene

Concen: 0.067 ug/L

RT: 9.021 min Scan# 2482

Delta R.T. 0.010 min

Lab File: VV023035.D

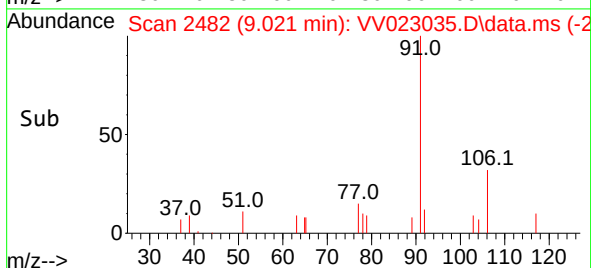
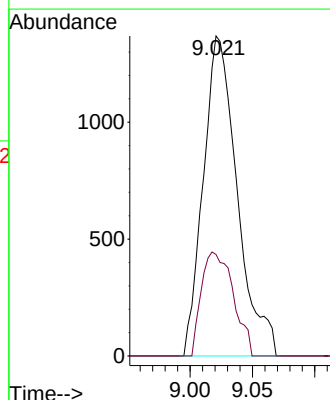
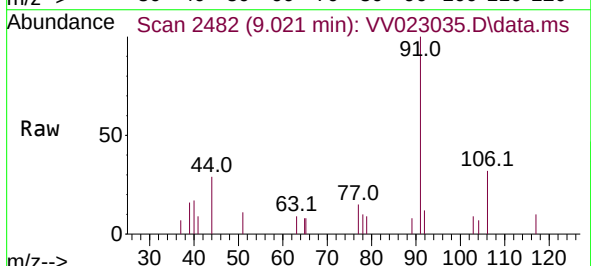
Acq: 26 Oct 2021 13:41

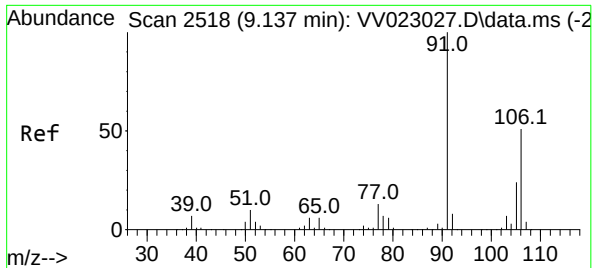
Tgt Ion: 91 Resp: 2587

Ion Ratio Lower Upper

91 100

106 31.7 22.5 41.9

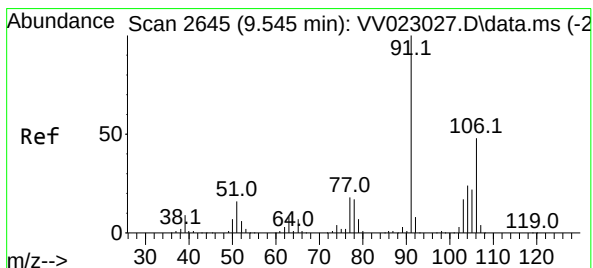
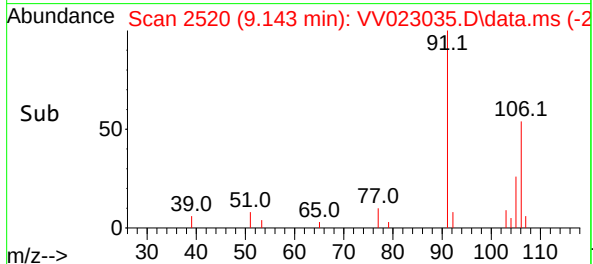
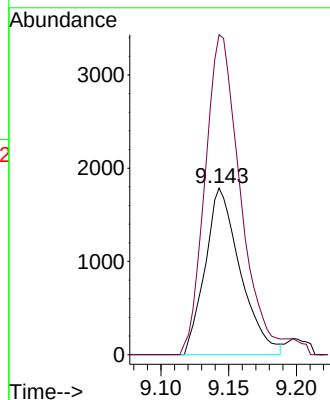
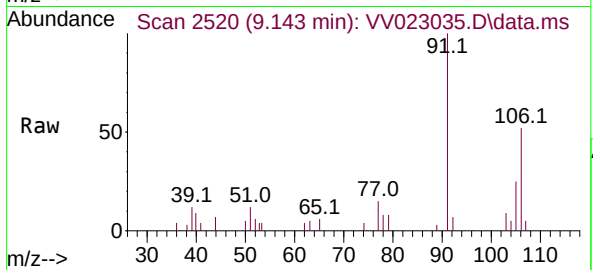




#53
m,p-xylene
Concen: 0.207 ug/L
RT: 9.143 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

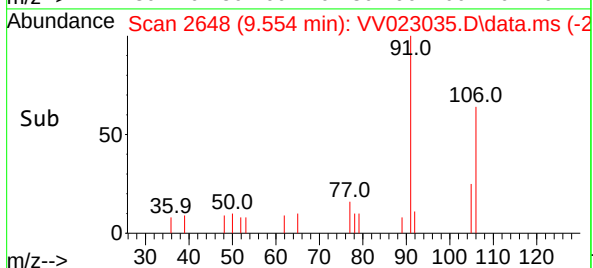
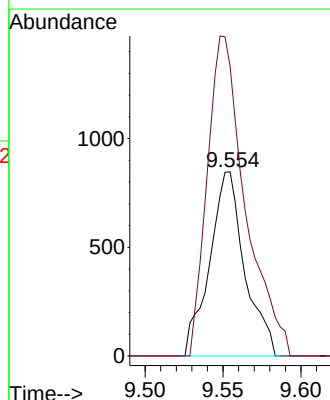
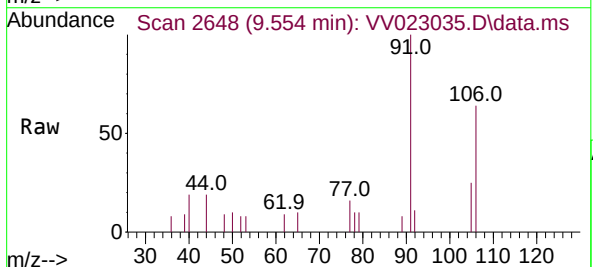
Instrument :
MSVOA_V
ClientSampleId :

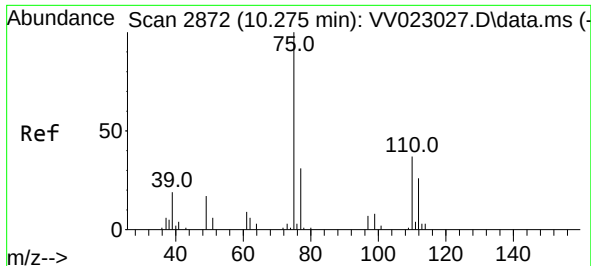
Tgt Ion:106 Resp: 3218
Ion Ratio Lower Upper
106 100
91 192.2 137.2 254.8



#54
o-xylene
Concen: 0.091 ug/L
RT: 9.554 min Scan# 2648
Delta R.T. 0.010 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion:106 Resp: 1324
Ion Ratio Lower Upper
106 100
91 157.3 148.3 275.5

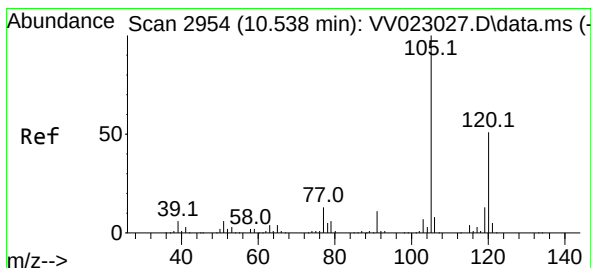
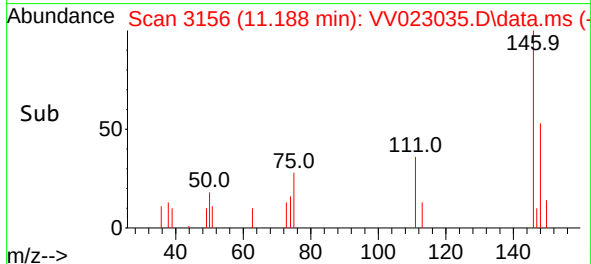
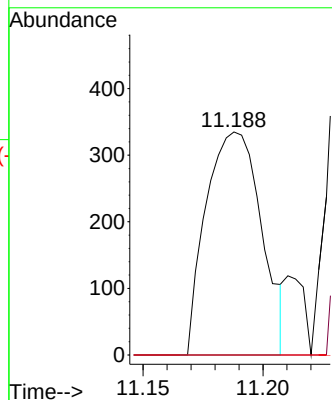
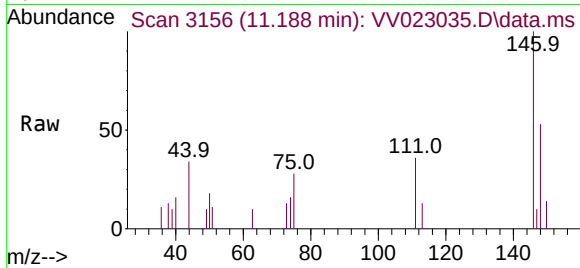




#61
1,2,3-Trichloropropane
Concen: 0.125 ug/L
RT: 11.188 min Scan# 3156
Delta R.T. 0.913 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

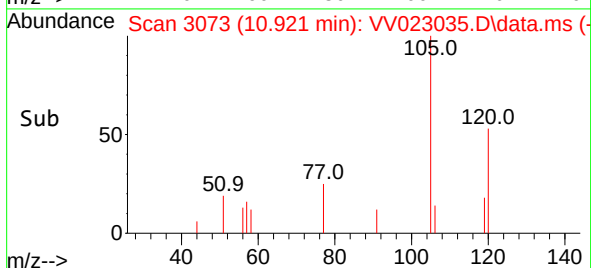
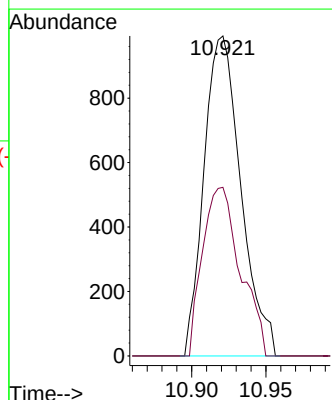
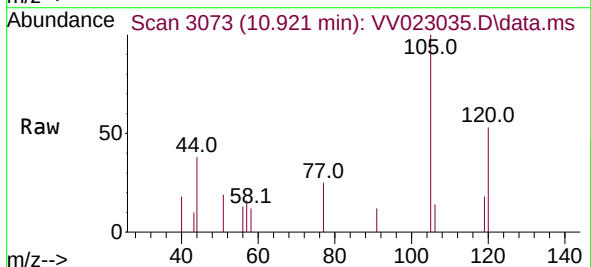
Instrument :
MSVOA_V
ClientSampleId :

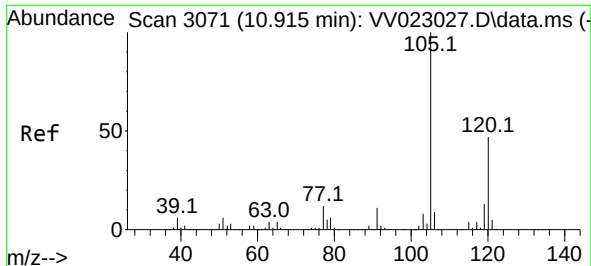
Tgt Ion: 75 Resp: 539
Ion Ratio Lower Upper
75 100
77 56.0 26.6 39.8#
110 0.0 31.8 47.6#



#62
1,3,5-Trimethylbenzene
Concen: 0.069 ug/L
RT: 10.921 min Scan# 3073
Delta R.T. 0.383 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion: 105 Resp: 1718
Ion Ratio Lower Upper
105 100
120 54.0 39.7 59.5





#63

1,2,4-Trimethylbenzene

Concen: 0.069 ug/L

RT: 10.921 min Scan# 3071

Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

Instrument :

MSVOA_V

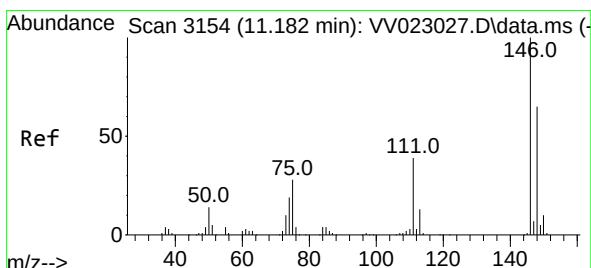
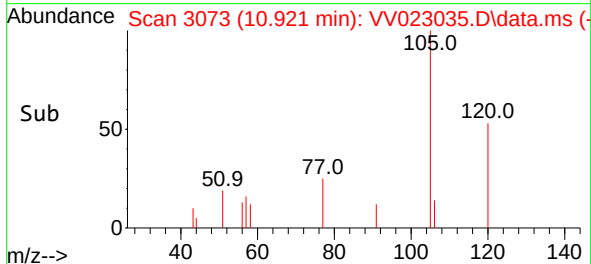
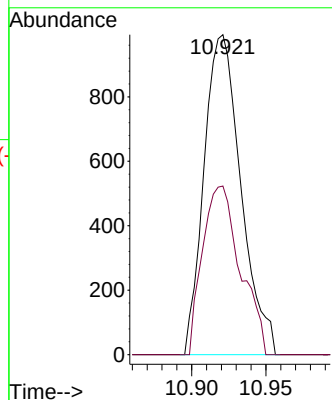
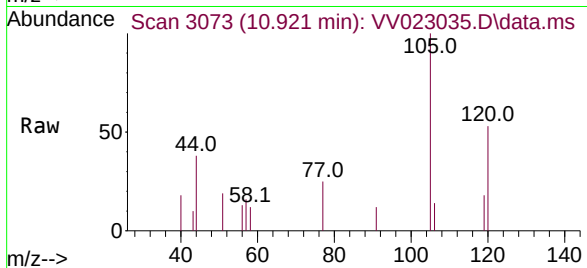
ClientSampleId :

Tgt Ion:105 Resp: 1718

Ion Ratio Lower Upper

105 100

120 54.0 37.4 56.2



#64

1,3-Dichlorobenzene

Concen: 0.120 ug/L

RT: 11.188 min Scan# 3156

Delta R.T. 0.006 min

Lab File: VV023035.D

Acq: 26 Oct 2021 13:41

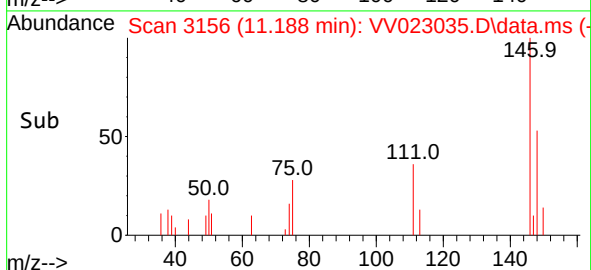
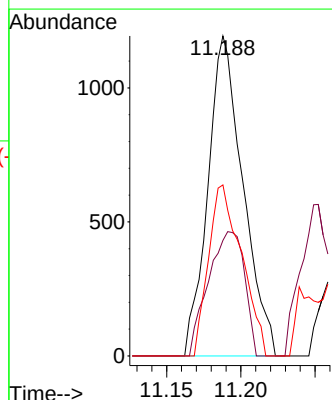
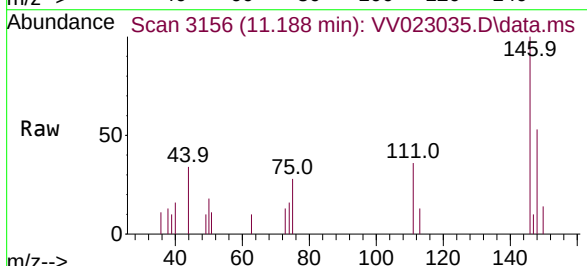
Tgt Ion:146 Resp: 1961

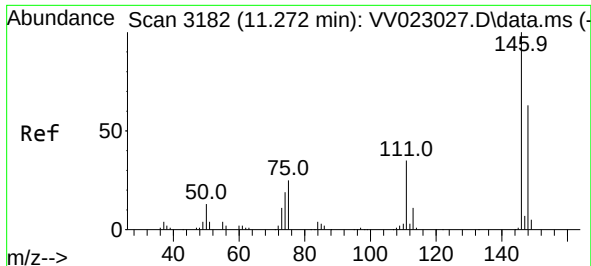
Ion Ratio Lower Upper

146 100

111 36.1 26.7 49.7

148 53.4 42.9 79.7

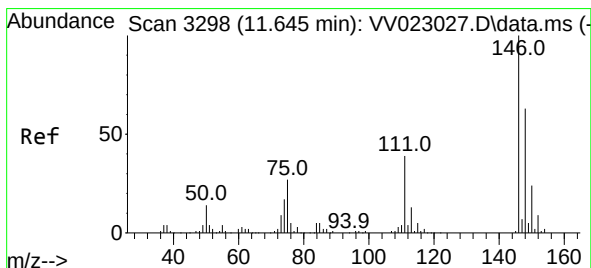
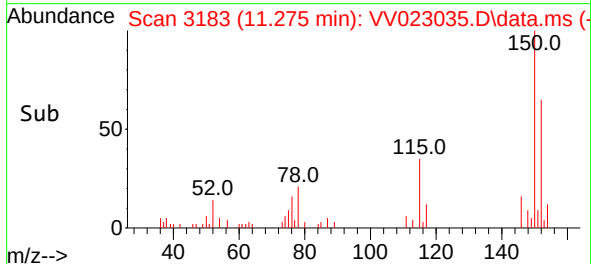
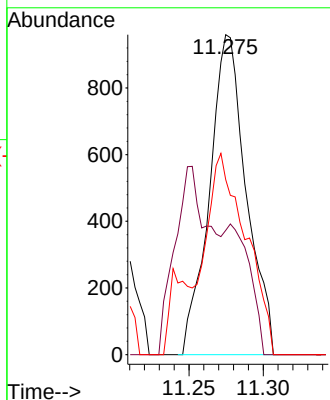
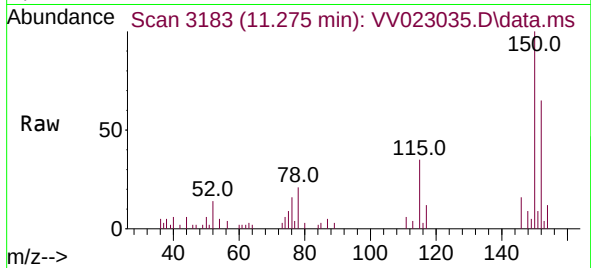




#65
1,4-Dichlorobenzene
Concen: 0.100 ug/L
RT: 11.275 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 1656
Ion Ratio Lower Upper
146 100
111 38.9 26.2 48.8
148 54.7 44.4 82.5



#67
1,2-Dichlorobenzene
Concen: 0.136 ug/L
RT: 11.641 min Scan# 3297
Delta R.T. -0.003 min
Lab File: VV023035.D
Acq: 26 Oct 2021 13:41

Tgt Ion:146 Resp: 2067
Ion Ratio Lower Upper
146 100
111 42.5 31.6 47.4
148 60.8 51.0 76.6

