

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111221\
 Data File : VW023434.D
 Acq On : 12 Nov 2021 11:07
 Operator : SY/MD
 Sample : M4542-09DL 5X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 13 00:11:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 12 04:43:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	116045	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	109921	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	53015	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	26670	3.669	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.400%
7) Chloroethane-d5	1.558	69	23287	3.930	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.600%
11) 1,1-Dichloroethene-d2	2.098	63	41542	3.052	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.000%
20) 2-Butanone-d5	3.963	46	68268	54.507	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.020%
24) Chloroform-d	4.342	84	59791	3.859	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.200%
26) 1,2-Dichloroethane-d4	5.031	65	33213	4.767	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	5.037	84	115468	4.094	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.800%
36) 1,2-Dichloropropane-d6	6.066	67	38365	4.621	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.400%
41) Toluene-d8	7.310	98	105682	3.999	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.000%
43) trans-1,3-Dichloroprop...	7.622	79	13639	4.332	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.600%
46) 2-Hexanone-d5	8.108	63	44709	38.600	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.200%
56) 1,1,2,2-Tetrachloroeth...	10.220	84	26859	4.499	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.000%
66) 1,2-Dichlorobenzene-d4	11.625	152	42613	4.827	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.230	50	965	0.100	ug/L	96
5) Vinyl chloride	1.301	62	3750	0.390	ug/L	88
8) Chloroethane	1.577	64	953	0.172	ug/L	93
12) 1,1-Dichloroethene	2.105	96	975	0.141	ug/L #	1
19) 1,1-Dichloroethane	3.182	63	17481	1.217	ug/L	97
22) cis-1,2-Dichloroethene	3.902	96	15000	1.832	ug/L #	100
25) Chloroform	4.371	83	5165	0.337	ug/L	87
29) 1,1,1-Trichloroethane	4.596	97	30479	2.283	ug/L	94
31) Carbon tetrachloride	4.600	117	3868	0.323	ug/L	94
34) Trichloroethene	5.902	95	50246	6.150	ug/L	100
35) Methylcyclohexane	6.066	83	10278	0.797	ug/L #	18
37) 1,2-Dichloropropane	6.066	63	4603	0.642	ug/L #	83
39) cis-1,3-Dichloropropene	6.985	75	1099	0.107	ug/L #	52
42) Toluene	7.387	91	5269	0.160	ug/L	94
47) Tetrachloroethene	7.973	164	2736	0.386	ug/L	92
48) 2-Hexanone	8.169	43	5165	2.216	ug/L #	79
49) Dibromochloromethane	7.973	129	1913	0.293	ug/L #	10
51) Chlorobenzene	8.882	112	35919	1.644	ug/L	98
54) o-xylene	9.551	106	1123	0.088	ug/L	62

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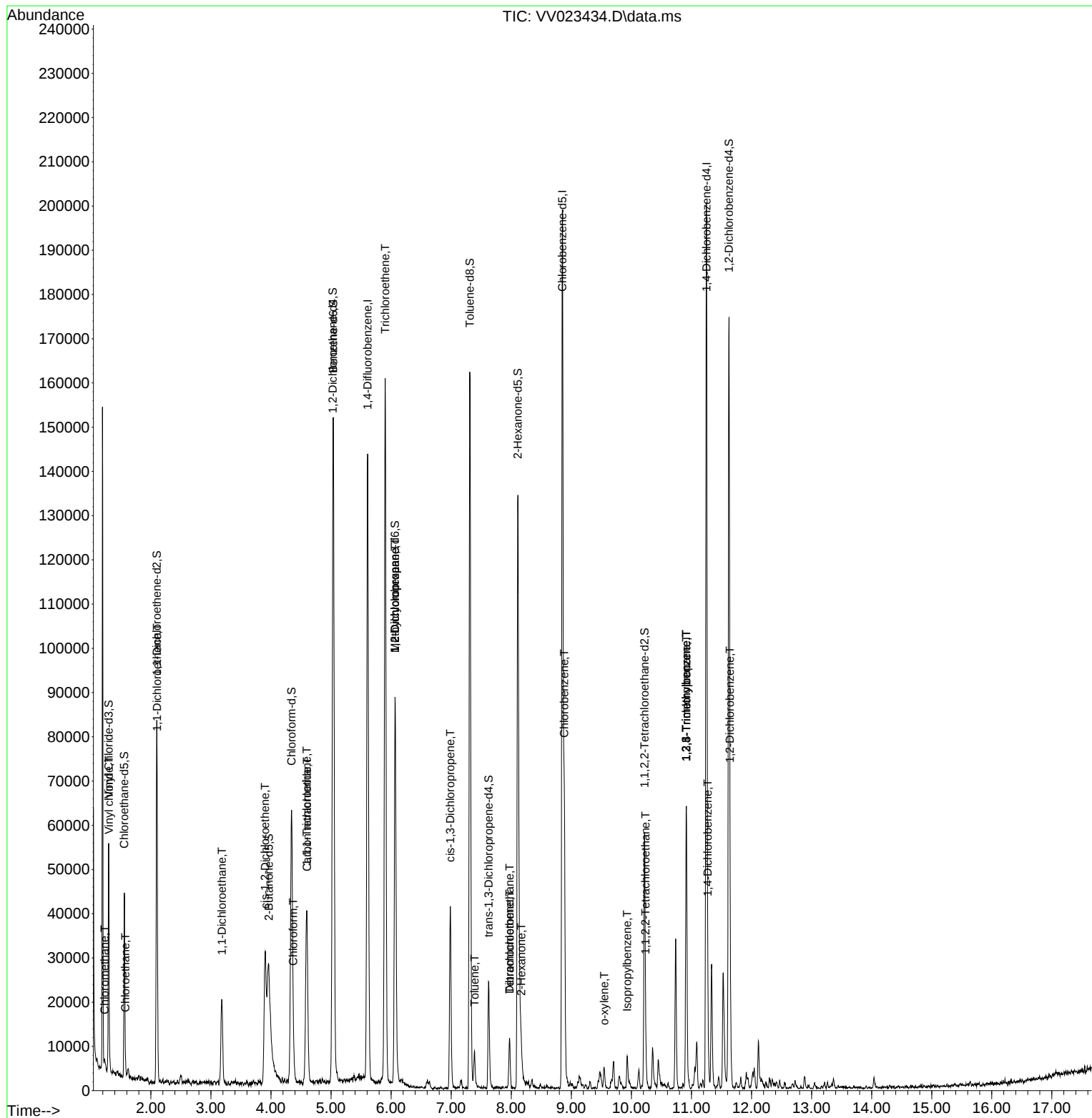
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.236	83	518	0.092	ug/L #	63
60) Isopropylbenzene	9.931	105	4673	0.154	ug/L	98
61) 1,2,3-Trichloropropane	10.915	75	379	0.108	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.915	105	33626	1.333	ug/L	95
63) 1,2,4-Trimethylbenzene	10.915	105	33626	1.339	ug/L	100
65) 1,4-Dichlorobenzene	11.271	146	3862	0.243	ug/L	97
67) 1,2-Dichlorobenzene	11.641	146	5533	0.398	ug/L	95

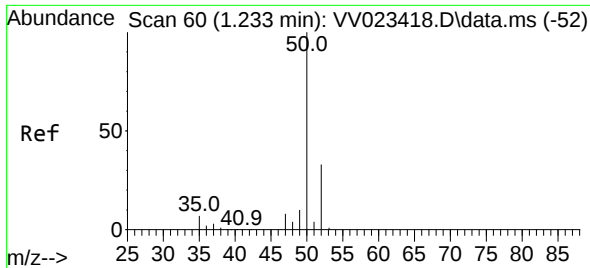
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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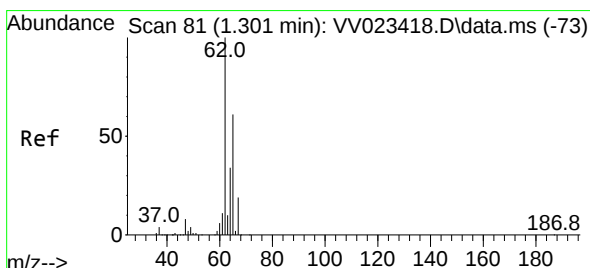
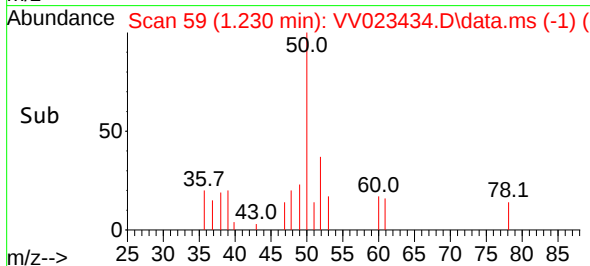
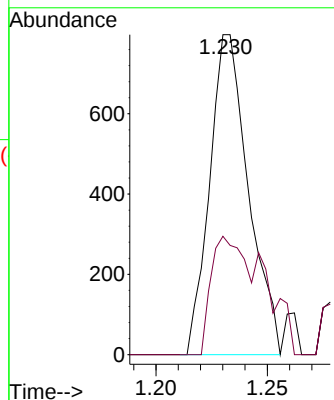
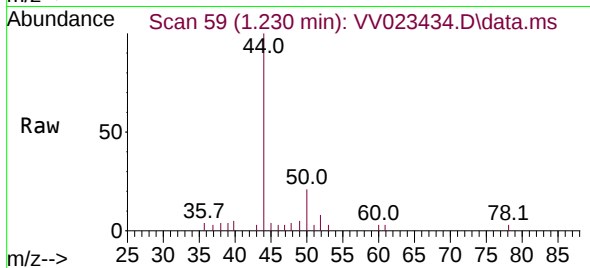




#3
Chloromethane
Concen: 0.100 ug/L
RT: 1.230 min Scan# 51
Delta R.T. -0.003 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

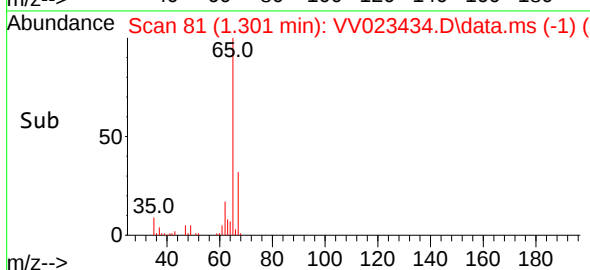
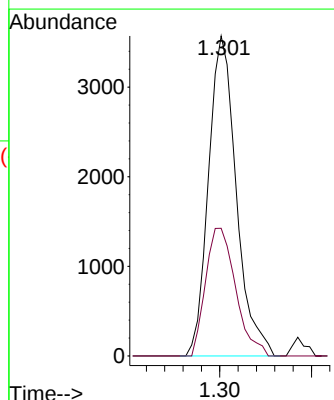
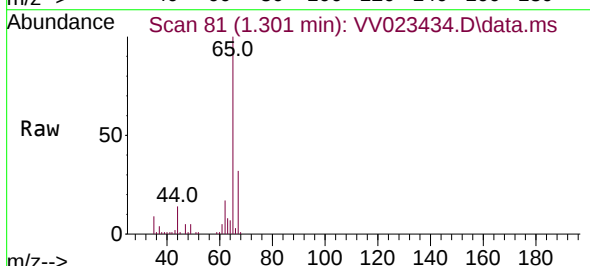
Instrument :
MSVOA_V
ClientSampleId :

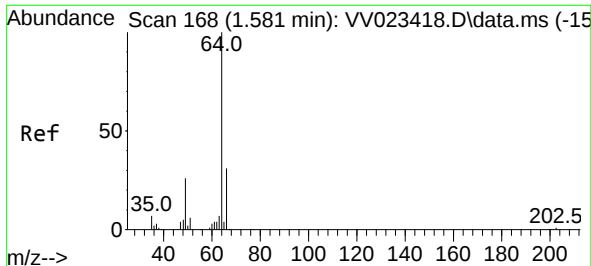
Tgt Ion: 50 Resp: 965
Ion Ratio Lower Upper
50 100
52 37.0 24.3 45.1



#5
Vinyl chloride
Concen: 0.390 ug/L
RT: 1.301 min Scan# 81
Delta R.T. -0.000 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

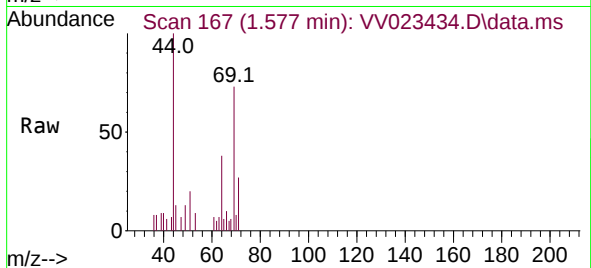
Tgt Ion: 62 Resp: 3750
Ion Ratio Lower Upper
62 100
64 39.9 23.1 42.9



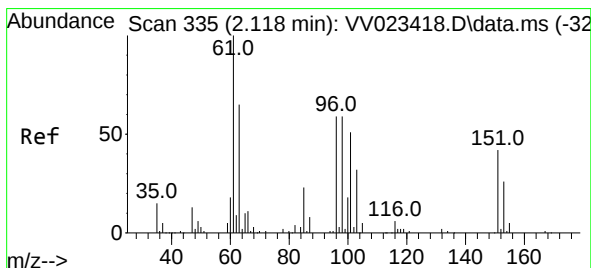
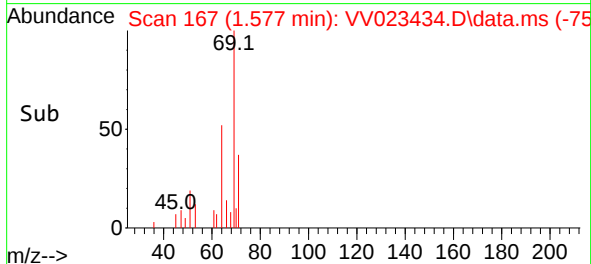
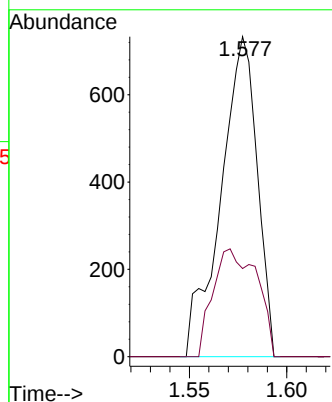


#8
Chloroethane
Concen: 0.172 ug/L
RT: 1.577 min Scan# 1
Delta R.T. -0.003 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Instrument :
MSVOA_V
ClientSampleId :

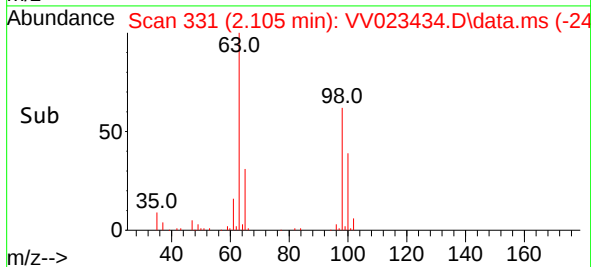
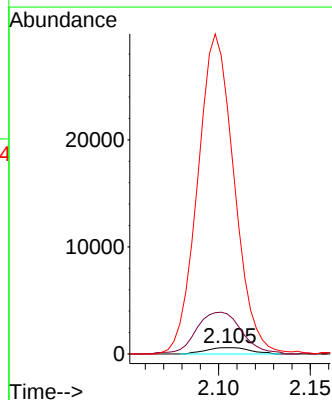
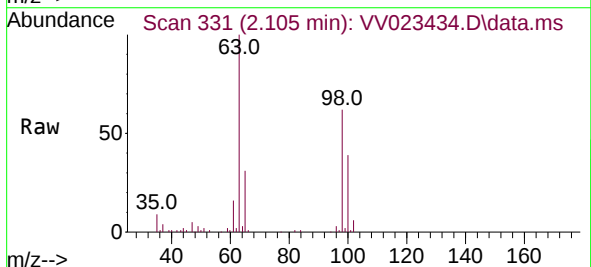


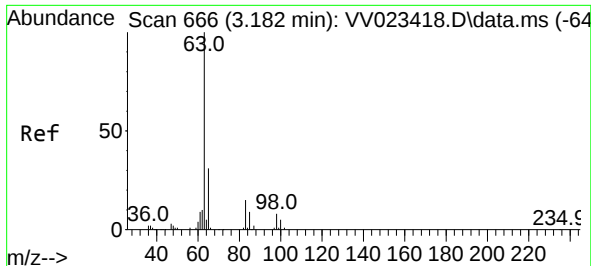
Tgt Ion: 64 Resp: 953
Ion Ratio Lower Upper
64 100
66 27.6 22.1 41.1



#12
1,1-Dichloroethene
Concen: 0.141 ug/L
RT: 2.105 min Scan# 331
Delta R.T. -0.013 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Tgt Ion: 96 Resp: 975
Ion Ratio Lower Upper
96 100
61 642.4 121.5 225.7#
63 3989.1 99.6 185.0#





#19

1,1-Dichloroethane

Concen: 1.217 ug/L

RT: 3.182 min Scan# 6

Delta R.T. -0.000 min

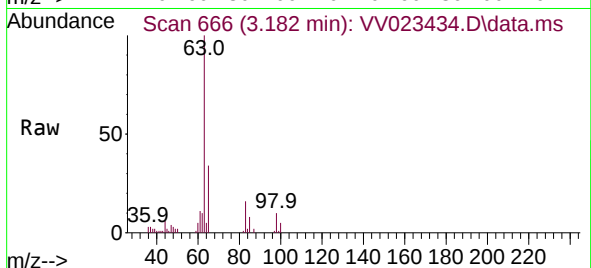
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Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

ClientSampleId :



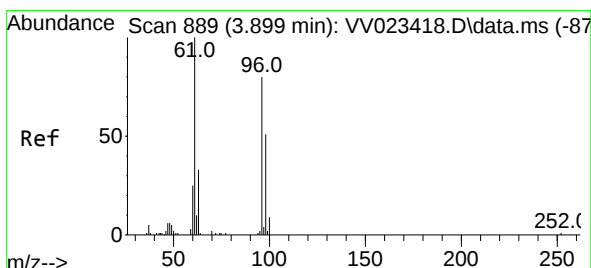
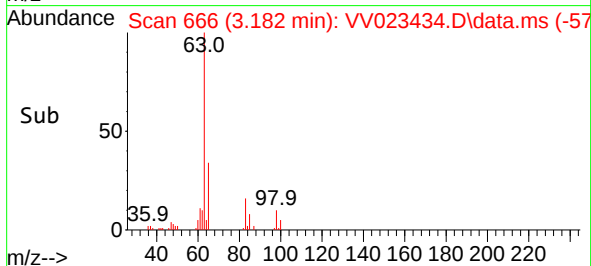
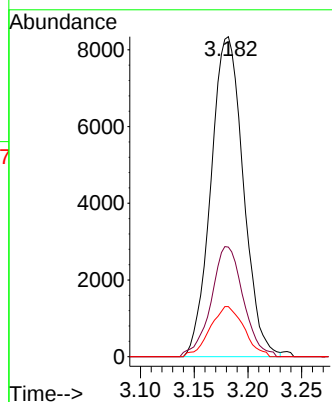
Tgt Ion: 63 Resp: 17481

Ion Ratio Lower Upper

63 100

65 34.2 22.6 42.0

83 15.7 11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 1.832 ug/L

RT: 3.902 min Scan# 890

Delta R.T. 0.003 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

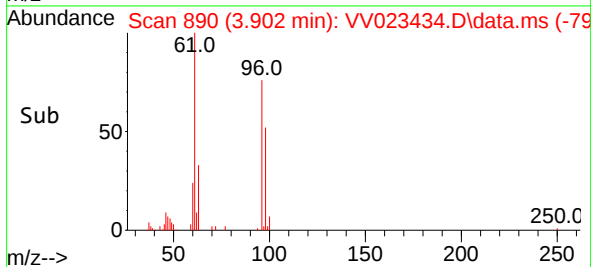
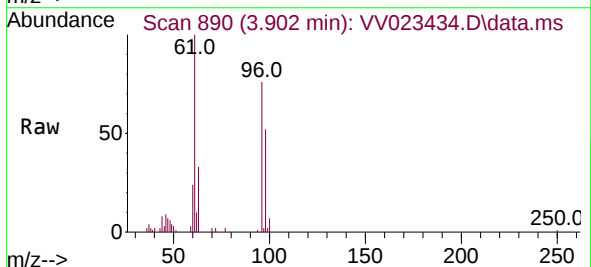
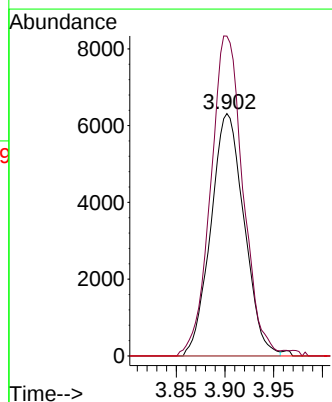
Tgt Ion: 96 Resp: 15000

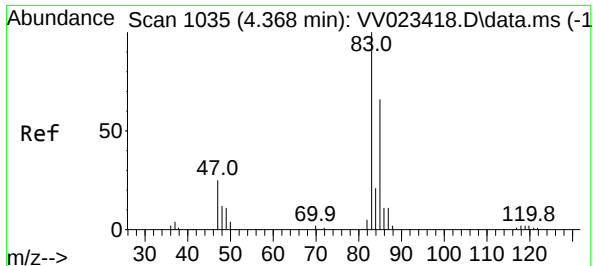
Ion Ratio Lower Upper

96 100

61 131.9 92.3 171.3

68 0.0 0.4 0.8#





#25

Chloroform

Concen: 0.337 ug/L

RT: 4.371 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

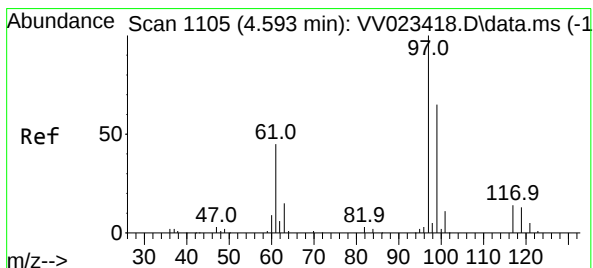
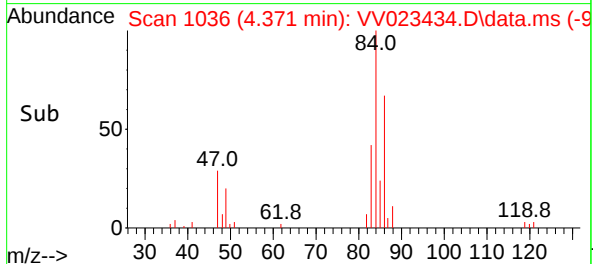
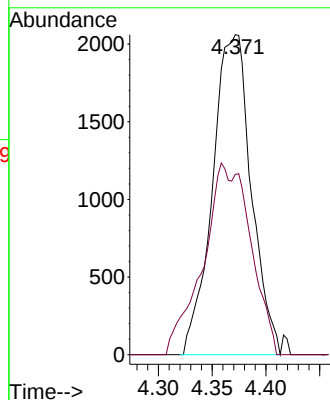
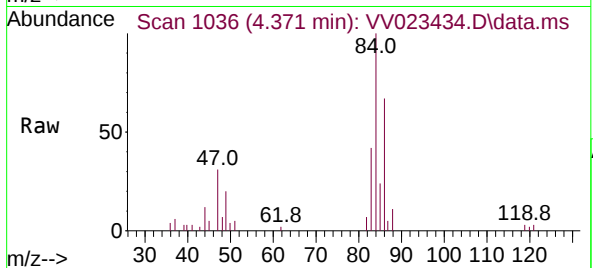
ClientSampleId :

Tgt Ion: 83 Resp: 5165

Ion Ratio Lower Upper

83 100

85 56.3 46.8 86.8



#29

1,1,1-Trichloroethane

Concen: 2.283 ug/L

RT: 4.596 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

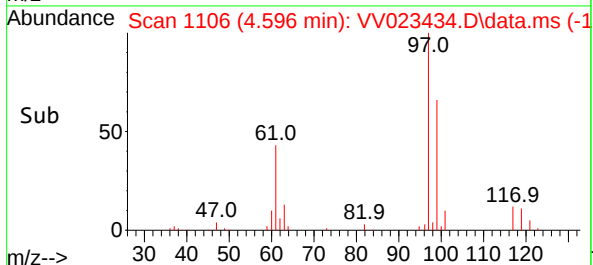
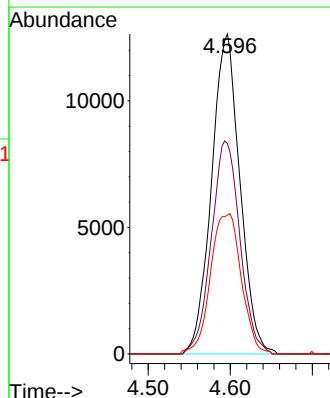
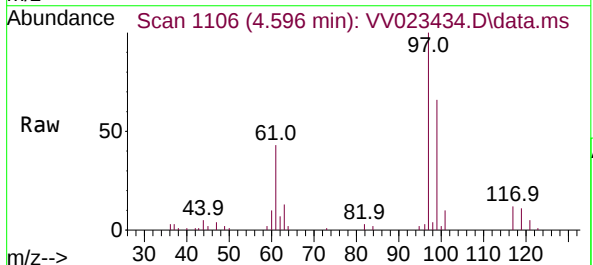
Tgt Ion: 97 Resp: 30479

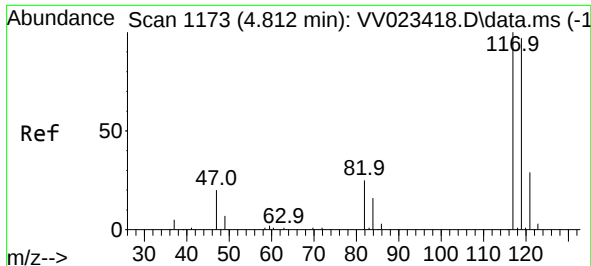
Ion Ratio Lower Upper

97 100

99 67.0 51.0 76.4

61 47.4 34.1 51.1

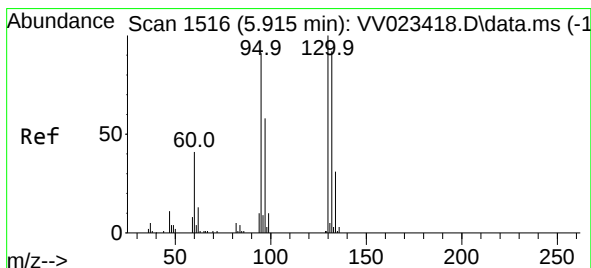
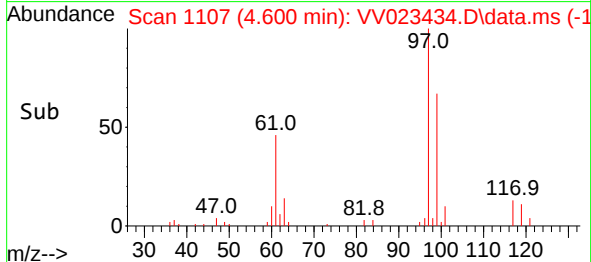
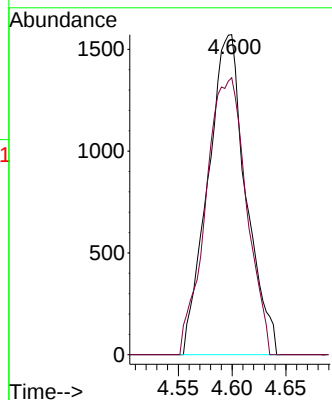
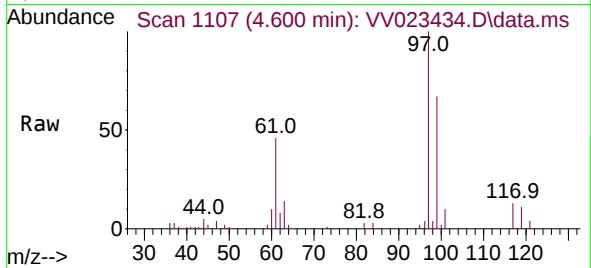




#31
Carbon tetrachloride
Concen: 0.323 ug/L
RT: 4.600 min Scan# 1173
Delta R.T. -0.212 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

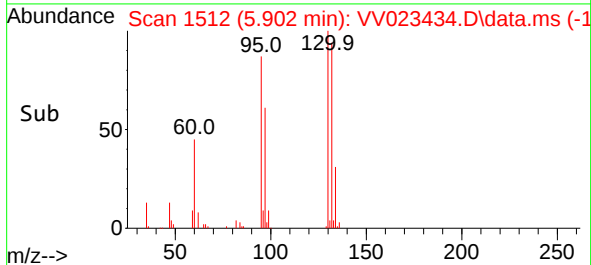
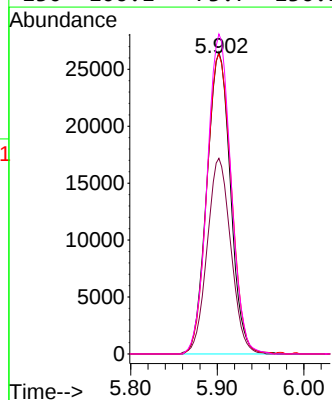
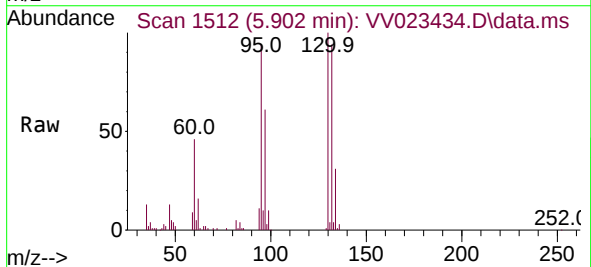
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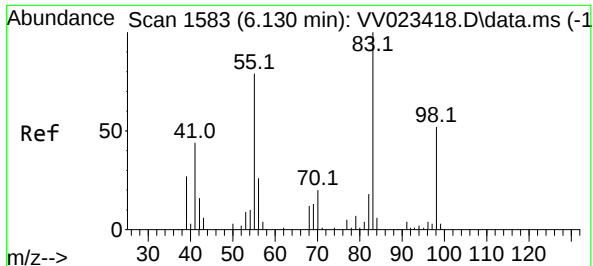
Tgt Ion:117 Resp: 3868
Ion Ratio Lower Upper
117 100
119 92.4 78.8 118.2



#34
Trichloroethene
Concen: 6.150 ug/L
RT: 5.902 min Scan# 1512
Delta R.T. -0.013 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Tgt Ion: 95 Resp: 50246
Ion Ratio Lower Upper
95 100
97 64.9 45.0 83.6
132 99.5 69.7 129.4
130 106.1 73.7 136.9





#35

Methylcyclohexane

Concen: 0.797 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.064 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

ClientSampleId :

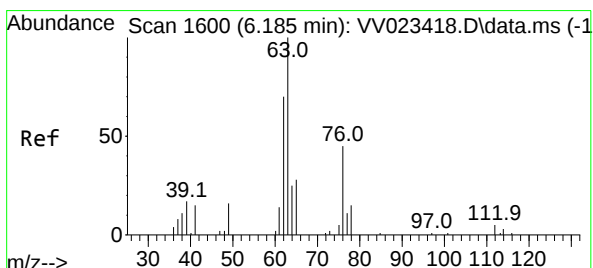
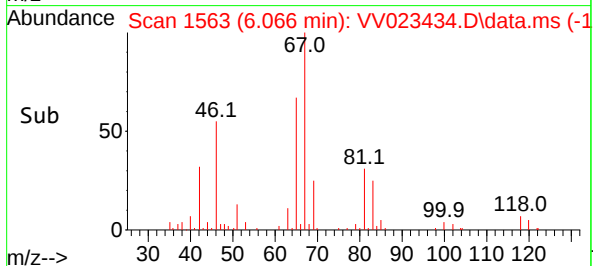
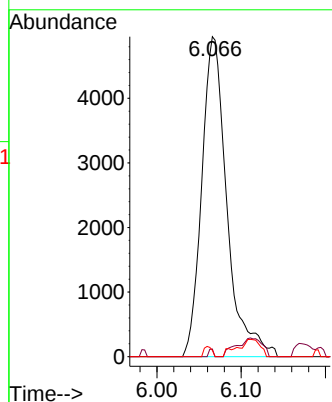
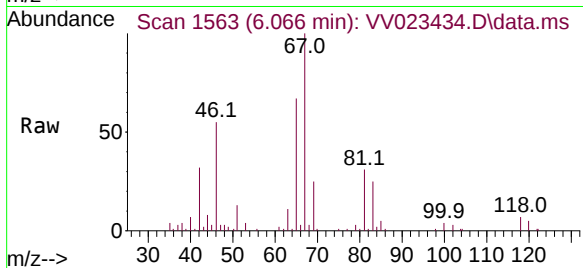
Tgt Ion: 83 Resp: 10278

Ion Ratio Lower Upper

83 100

55 0.4 62.8 94.2#

98 1.0 37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.642 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.119 min

Lab File: VV023434.D

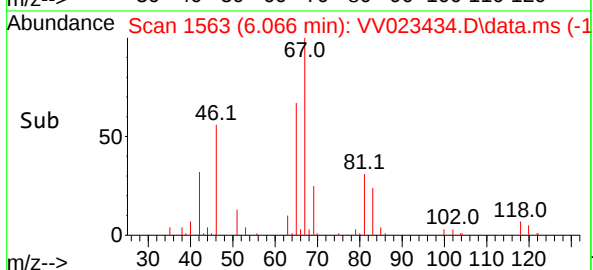
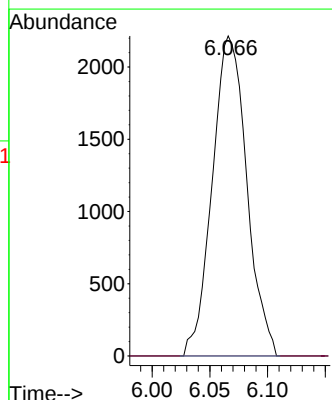
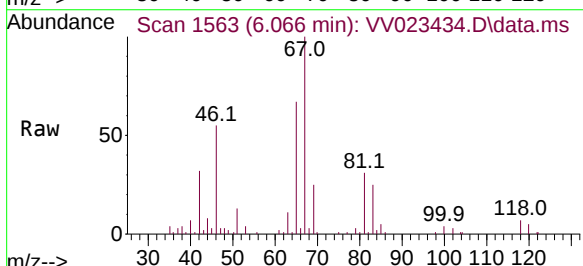
Acq: 12 Nov 2021 11:07

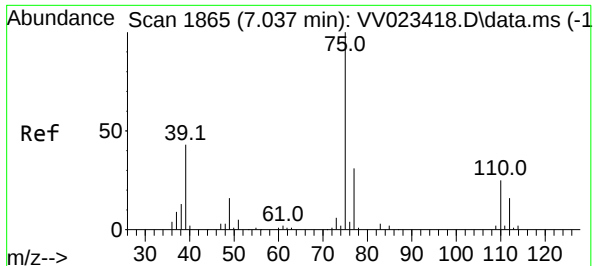
Tgt Ion: 63 Resp: 4603

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#





#39

cis-1,3-Dichloropropene

Concen: 0.107 ug/L

RT: 6.985 min Scan# 11

Delta R.T. -0.052 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

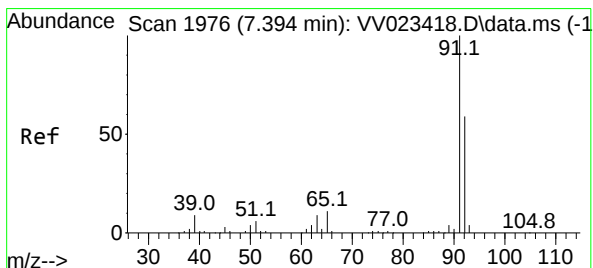
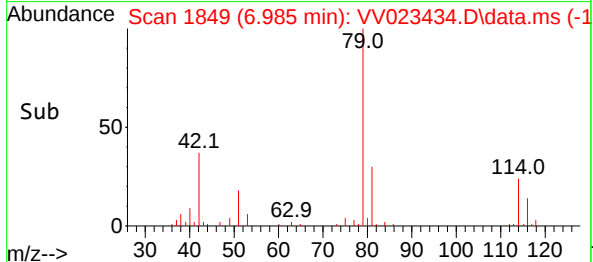
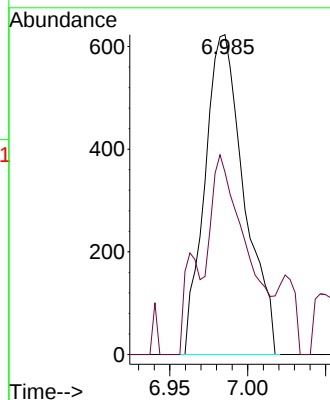
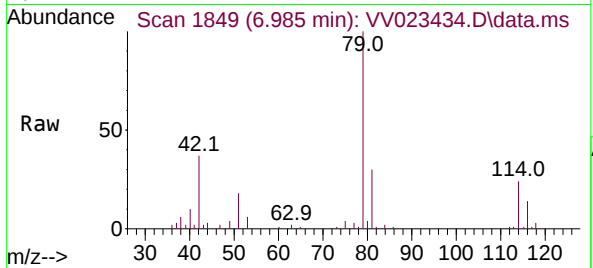
ClientSampleId :

Tgt Ion: 75 Resp: 1099

Ion Ratio Lower Upper

75 100

77 57.0 21.6 40.2#



#42

Toluene

Concen: 0.160 ug/L

RT: 7.387 min Scan# 1974

Delta R.T. -0.006 min

Lab File: VV023434.D

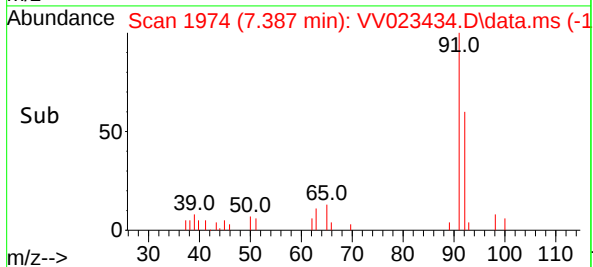
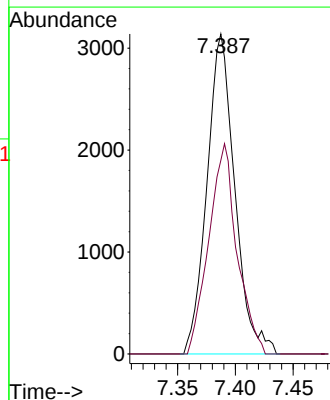
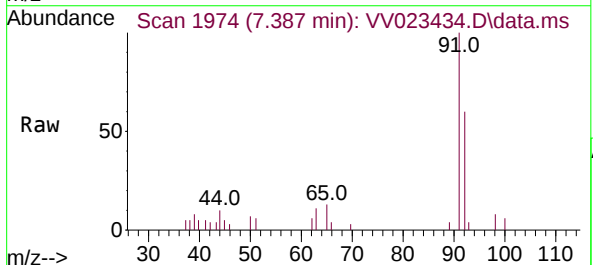
Acq: 12 Nov 2021 11:07

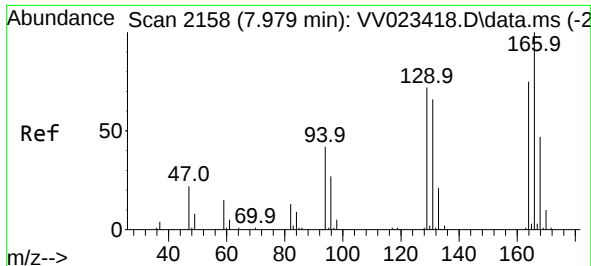
Tgt Ion: 91 Resp: 5269

Ion Ratio Lower Upper

91 100

92 60.5 39.3 72.9





#47

Tetrachloroethene

Concen: 0.386 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. -0.006 min

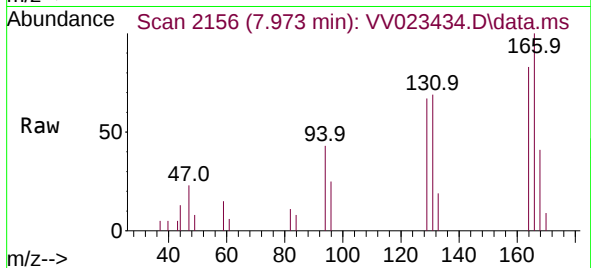
Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 2736

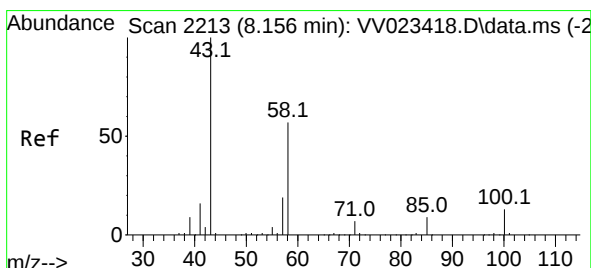
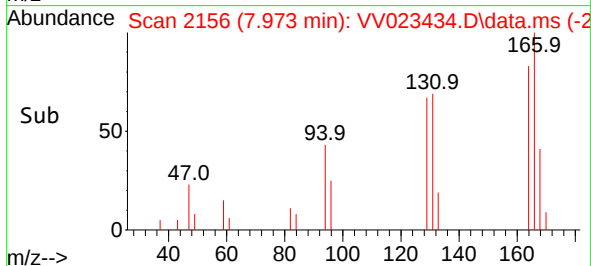
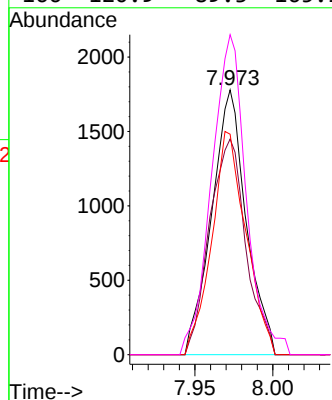
Ion Ratio Lower Upper

164 100

129 81.5 64.0 119.0

131 83.2 63.4 117.8

166 120.9 89.3 165.9



#48

2-Hexanone

Concen: 2.216 ug/L

RT: 8.169 min Scan# 2217

Delta R.T. 0.013 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Tgt Ion: 43 Resp: 5165

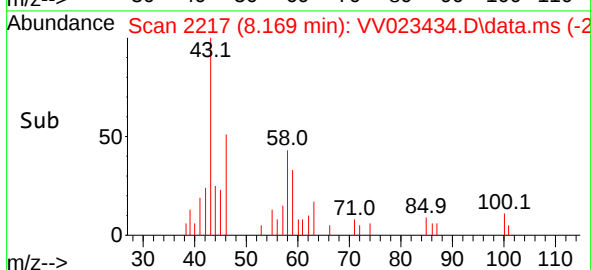
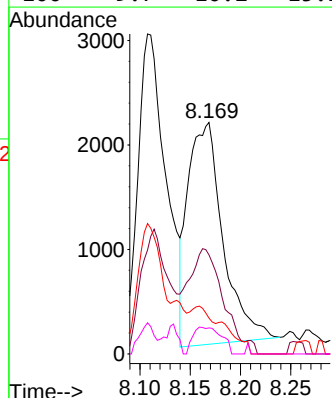
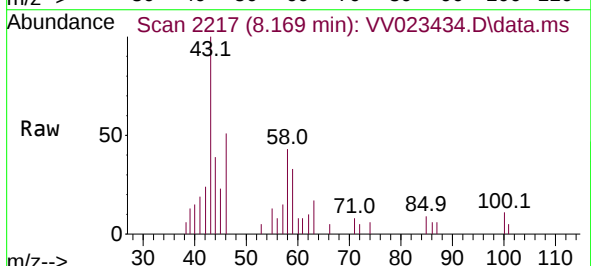
Ion Ratio Lower Upper

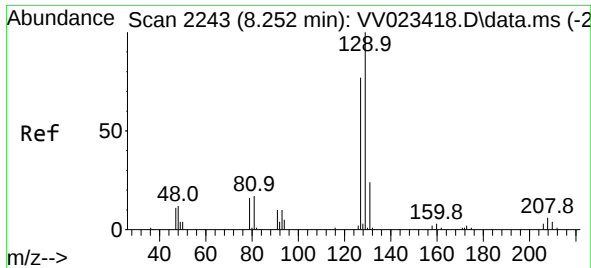
43 100

58 39.8 43.7 65.5#

57 2.9 14.1 21.1#

100 9.7 10.2 15.2#





#49

Dibromochloromethane

Concen: 0.293 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. -0.280 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

Instrument :

MSVOA_V

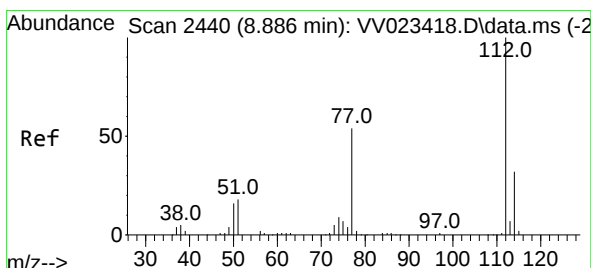
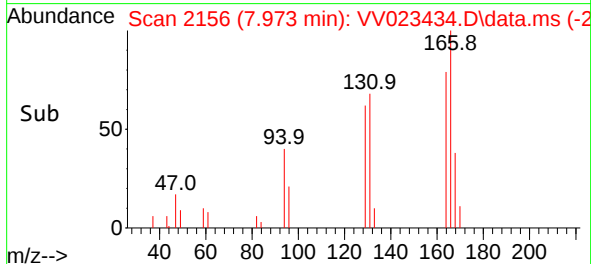
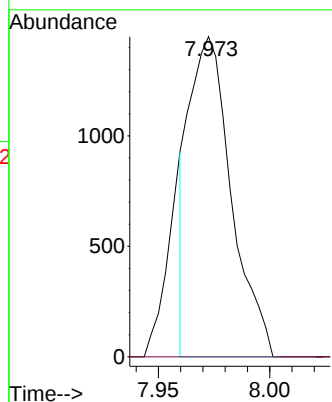
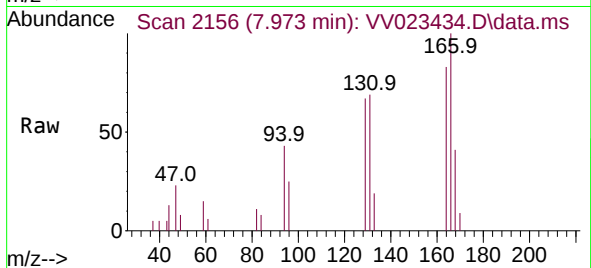
ClientSampleId :

Tgt Ion:129 Resp: 1913

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#51

Chlorobenzene

Concen: 1.644 ug/L

RT: 8.882 min Scan# 2439

Delta R.T. -0.003 min

Lab File: VV023434.D

Acq: 12 Nov 2021 11:07

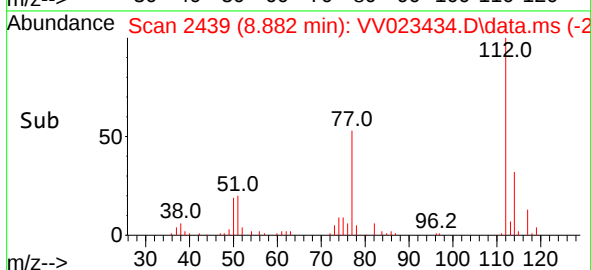
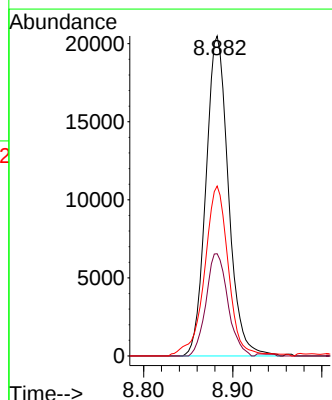
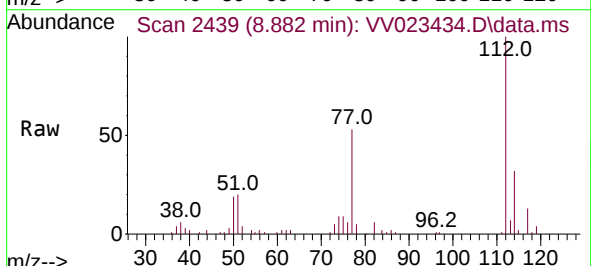
Tgt Ion:112 Resp: 35919

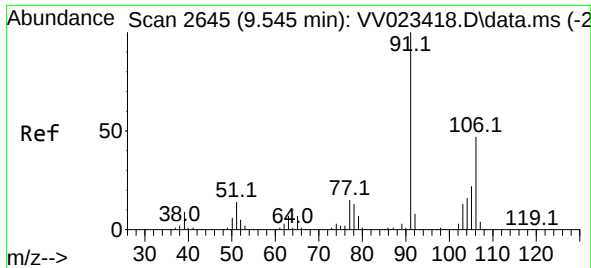
Ion Ratio Lower Upper

112 100

114 31.9 22.0 40.8

77 53.1 44.4 66.6

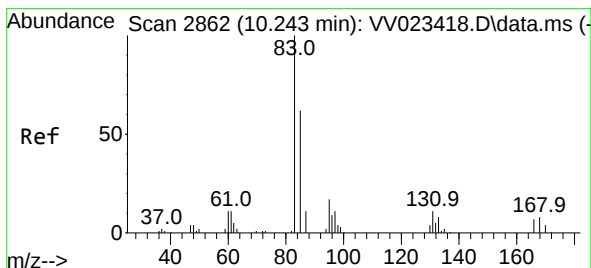
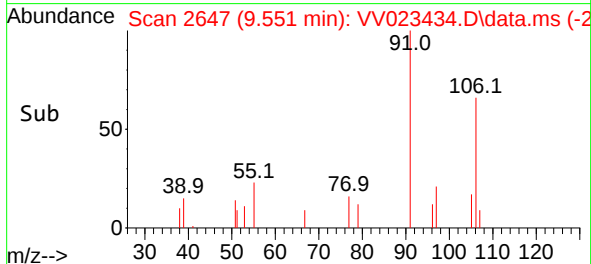
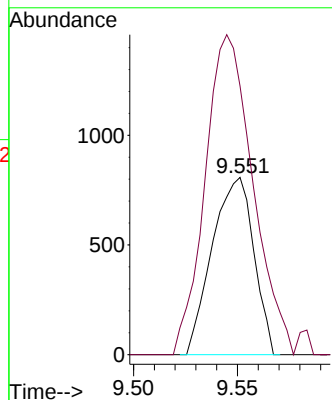
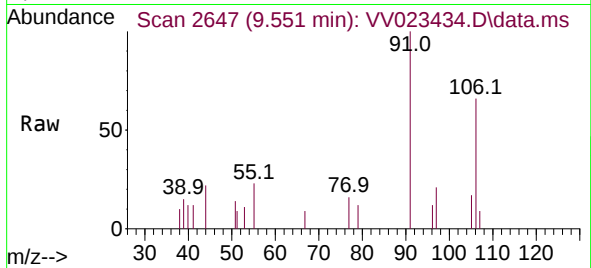




#54
o-xylene
Concen: 0.088 ug/L
RT: 9.551 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

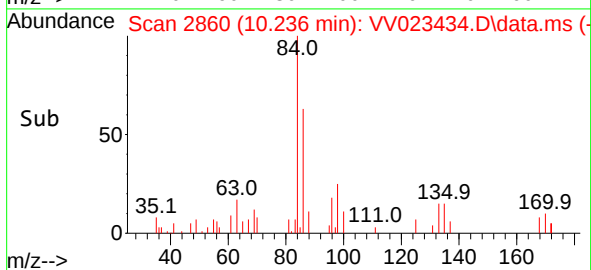
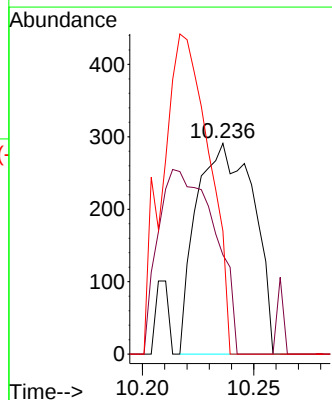
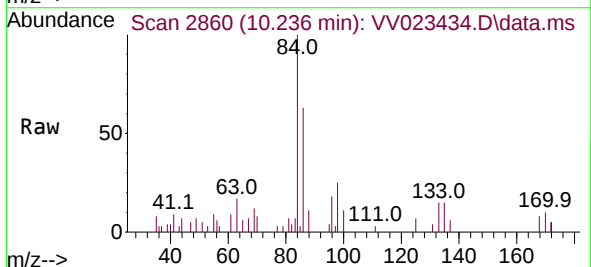
Instrument :
MSVOA_V
ClientSampleId :

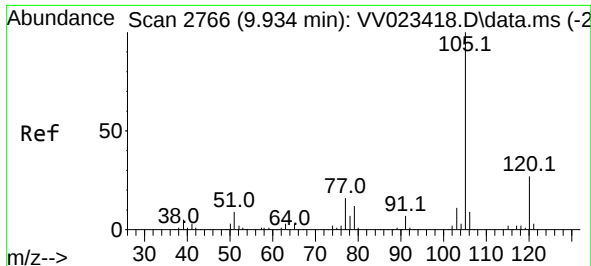
Tgt Ion:106 Resp: 1123
Ion Ratio Lower Upper
106 100
91 151.6 148.3 275.5



#57
1,1,2,2-Tetrachloroethane
Concen: 0.092 ug/L
RT: 10.236 min Scan# 2860
Delta R.T. -0.006 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Tgt Ion: 83 Resp: 518
Ion Ratio Lower Upper
83 100
85 47.1 45.1 83.9
131 58.4 7.8 11.6#

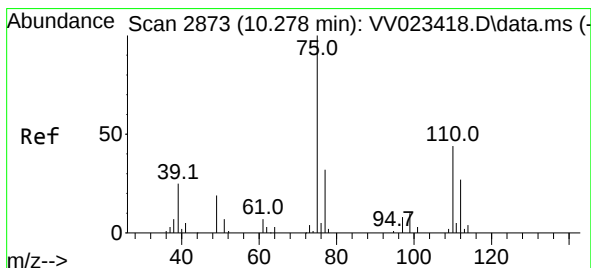
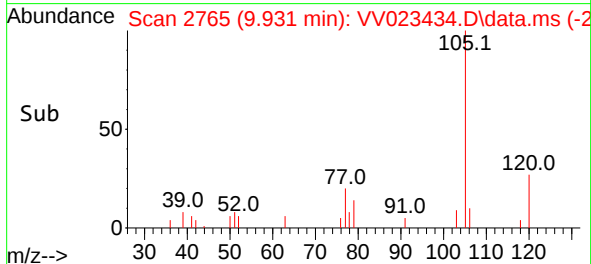
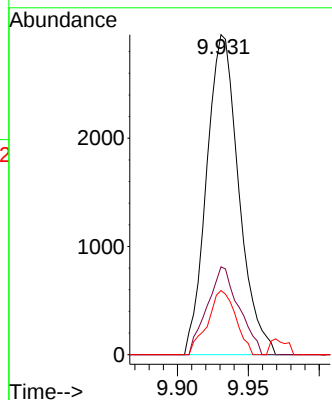
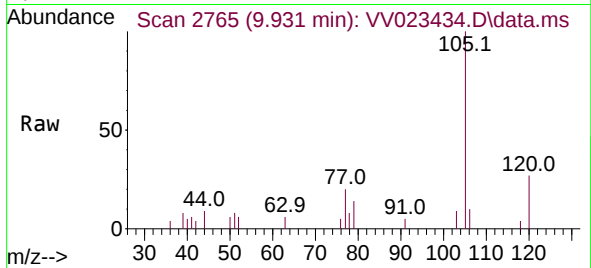




#60
Isopropylbenzene
Concen: 0.154 ug/L
RT: 9.931 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

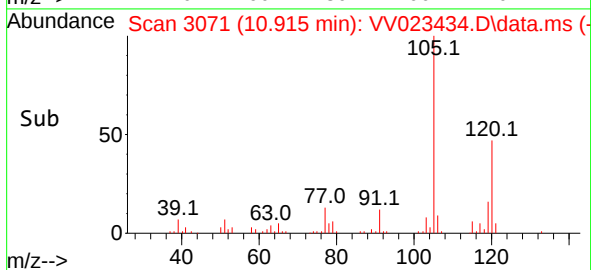
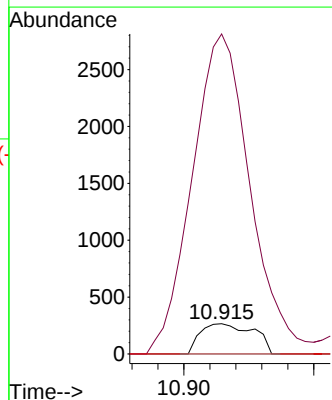
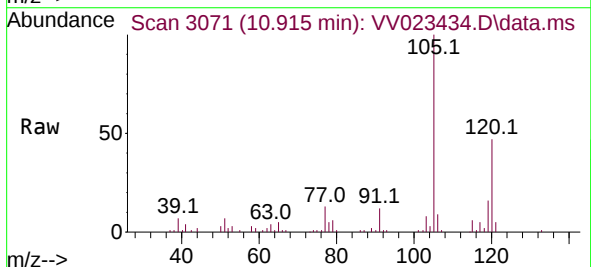
Instrument :
MSVOA_V
ClientSampleId :

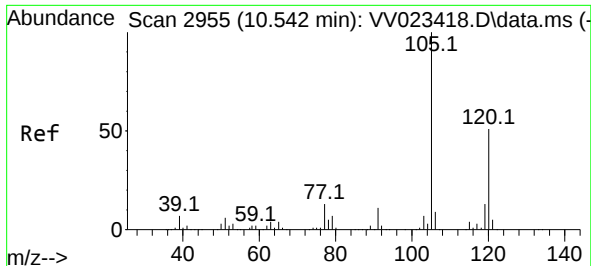
Tgt Ion:105 Resp: 4673
Ion Ratio Lower Upper
105 100
120 26.9 21.7 32.5
77 17.5 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 0.108 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. 0.637 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Tgt Ion: 75 Resp: 379
Ion Ratio Lower Upper
75 100
77 1154.1 26.6 39.8#
110 0.0 31.8 47.6#

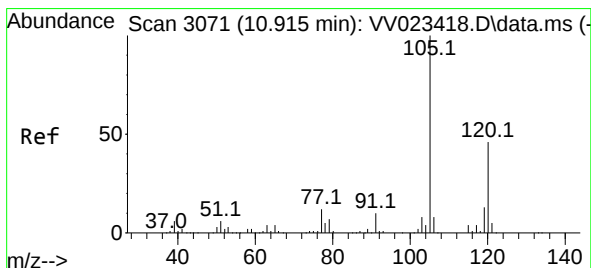
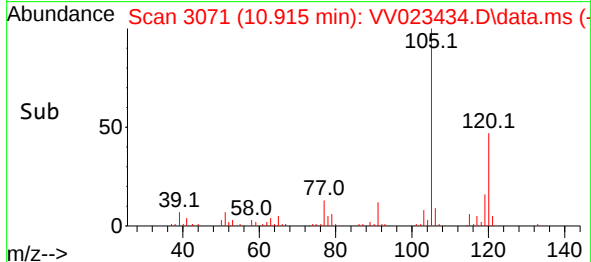
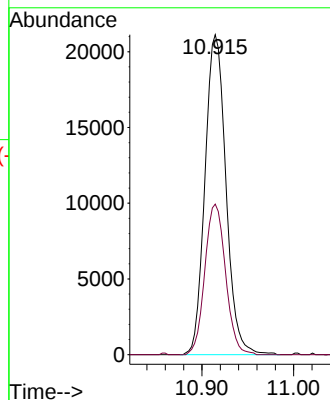
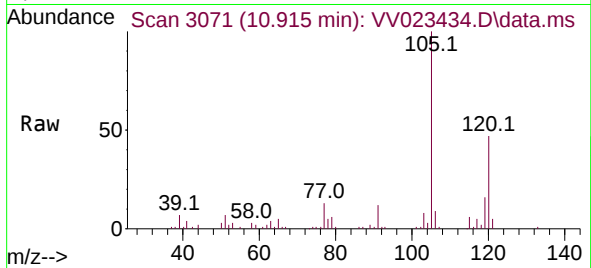




#62
 1,3,5-Trimethylbenzene
 Concen: 1.333 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.373 min
 Lab File: VV023434.D
 Acq: 12 Nov 2021 11:07

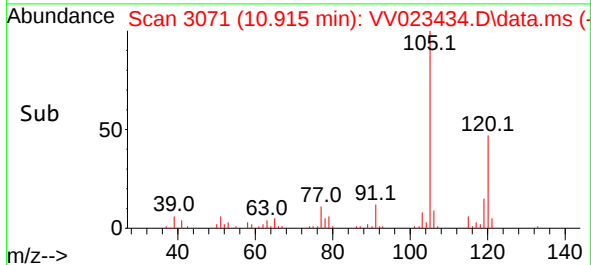
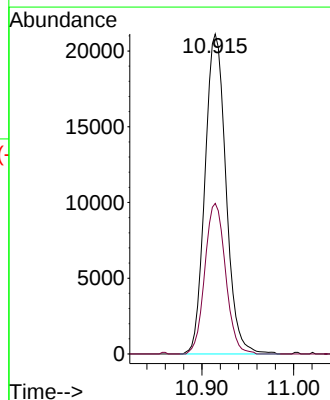
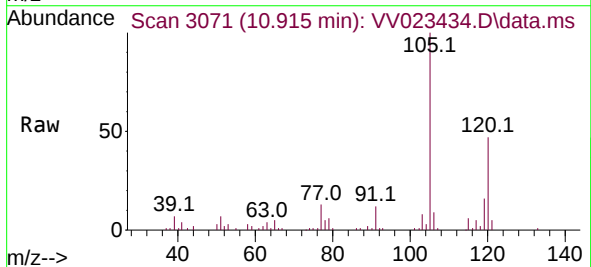
Instrument :
 MSVOA_V
 ClientSampleId :

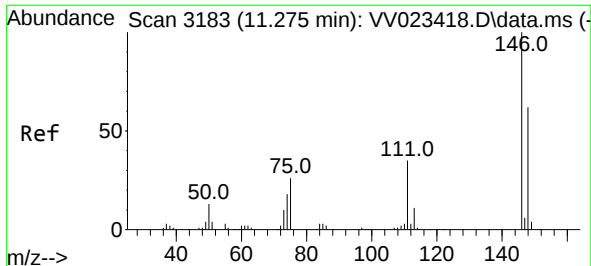
Tgt Ion:105 Resp: 33626
 Ion Ratio Lower Upper
 105 100
 120 46.5 39.7 59.5



#63
 1,2,4-Trimethylbenzene
 Concen: 1.339 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. -0.000 min
 Lab File: VV023434.D
 Acq: 12 Nov 2021 11:07

Tgt Ion:105 Resp: 33626
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.4 56.2

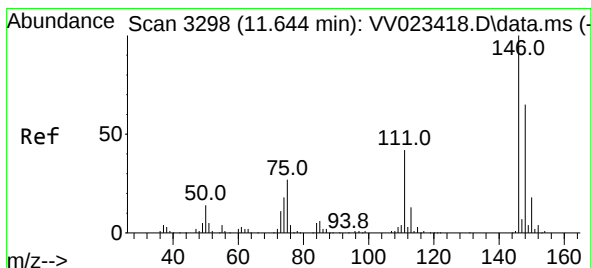
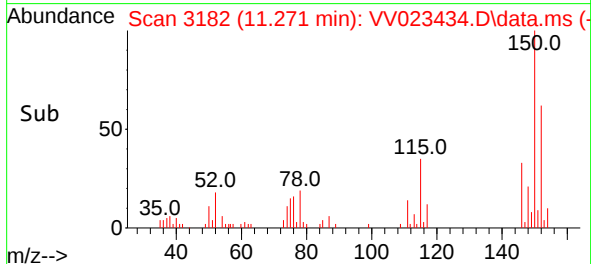
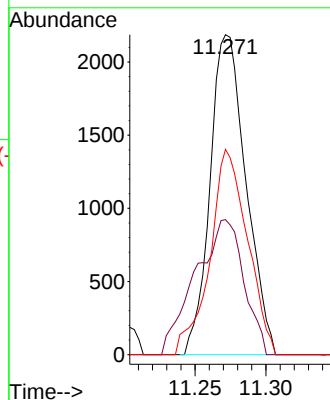
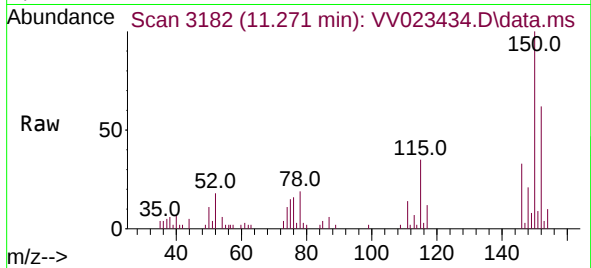




#65
1,4-Dichlorobenzene
Concen: 0.243 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. -0.003 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 3862
Ion Ratio Lower Upper
146 100
111 42.2 26.2 48.8
148 64.2 44.4 82.5



#67
1,2-Dichlorobenzene
Concen: 0.398 ug/L
RT: 11.641 min Scan# 3297
Delta R.T. -0.003 min
Lab File: VV023434.D
Acq: 12 Nov 2021 11:07

Tgt Ion:146 Resp: 5533
Ion Ratio Lower Upper
146 100
111 44.2 31.6 47.4
148 61.7 51.0 76.6

