

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU013123\
 Data File : VU052892.D
 Acq On : 31 Jan 2023 20:24
 Operator : JC/MD
 Sample : 01381-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 01 01:00:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 01 00:53:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	246179	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	247939	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	144985	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	83197	46.954	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.900%
7) Chloroethane-d5	1.909	69	74468	51.006	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.020%
11) 1,1-Dichloroethene-d2	2.565	63	127429	36.158	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.320%
21) 2-Butanone-d5	4.620	46	101586	92.808	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.810%
24) Chloroform-d	5.060	84	172187	45.534	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.060%
26) 1,2-Dichloroethane-d4	5.697	65	116185	48.118	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.240%
32) Benzene-d6	5.723	84	340306	44.925	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.860%
36) 1,2-Dichloropropane-d6	6.684	67	101065	45.492	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.980%
41) Toluene-d8	7.893	98	298537	43.281	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.560%
43) trans-1,3-Dichloroprop...	8.173	79	48950	43.960	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.920%
47) 2-Hexanone-d5	8.629	63	67462	86.422	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.420%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	139373	42.461	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.920%
66) 1,2-Dichlorobenzene-d4	12.195	152	139748	49.640	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.280%
Target Compounds						
						Qvalue
5) Vinyl chloride	1.604	62	11621	5.525	ug/L	83
8) Chloroethane	1.604	64	4764	3.606	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1345	0.677	ug/L #	19
12) 1,1-Dichloroethene	2.581	96	10614	5.828	ug/L #	1
17) trans-1,2-Dichloroethene	3.353	96	19331	9.822	ug/L	98
18) Methyl tert-butyl Ether	3.359	73	10172	1.758	ug/L #	89
20) cis-1,2-Dichloroethene	4.661	96	2427816	1155.412	ug/L	98
25) Chloroform	5.083	83	2923	0.754	ug/L	87
33) Benzene	5.771	78	279316	33.095	ug/L	100
34) Trichloroethene	6.536	95	160515	74.826	ug/L	96
35) Methylcyclohexane	6.761	83	3406	1.003	ug/L	87
51) Chlorobenzene	9.449	112	13393570	2250.628	ug/L	98
52) Ethylbenzene	9.568	91	213132	23.057	ug/L	99
54) o-xylene	10.099	106	5181	1.450	ug/L	97
64) 1,3-Dichlorobenzene	11.742	146	242373	51.303	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	2204122	450.666	ug/L	99
67) 1,2-Dichlorobenzene	12.217	146	11797705	2468.911	ug/L	98
69) 1,3,5-Trichlorobenzene	13.217	180	4355	1.245	ug/L	95
70) 1,2,4-trichlorobenzene	13.838	180	3029913	1033.298	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Wed Feb 01 00:53:48 2023
Response via : Initial Calibration

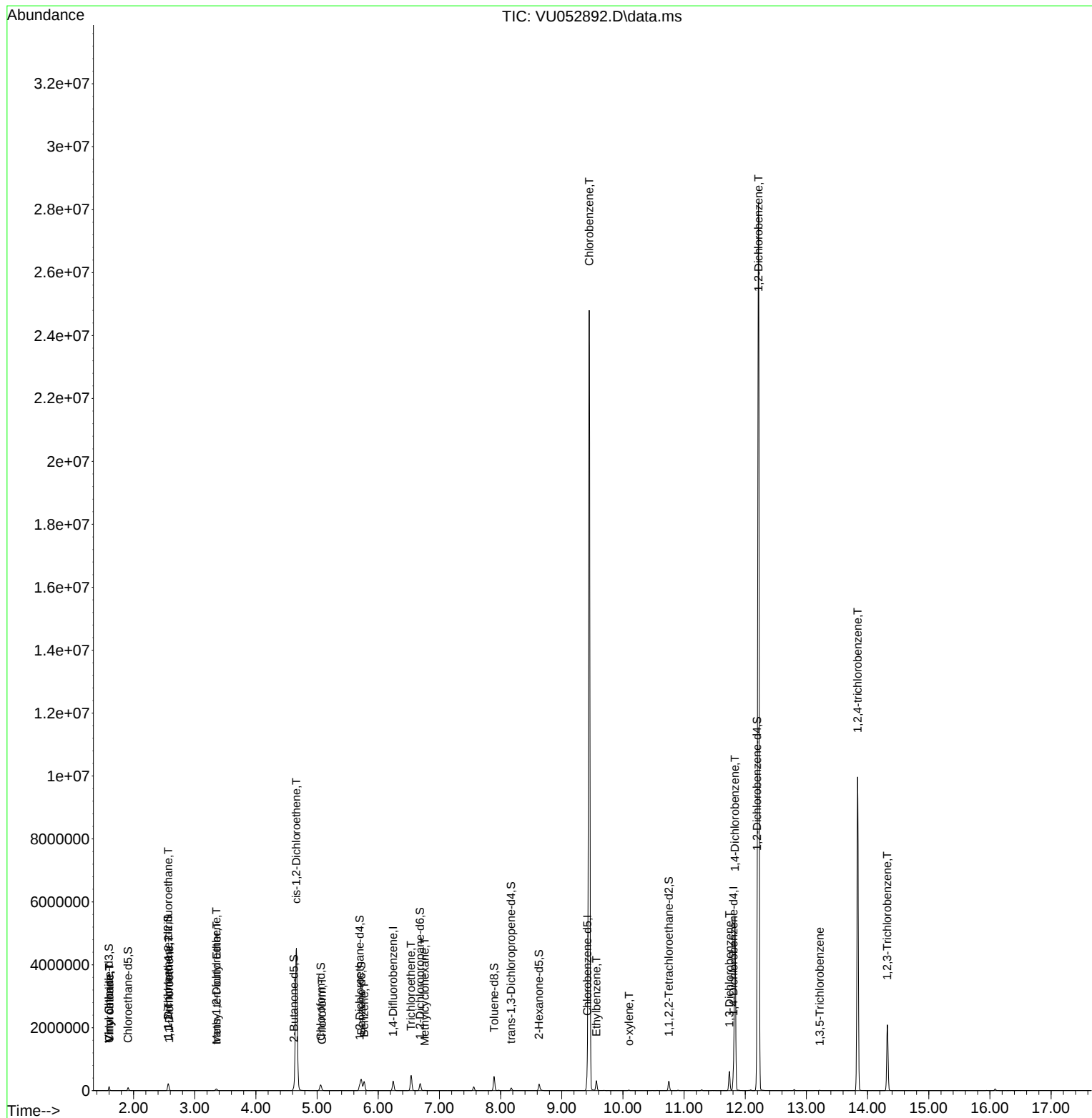
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	14.323	180	649834	209.699	ug/L	98

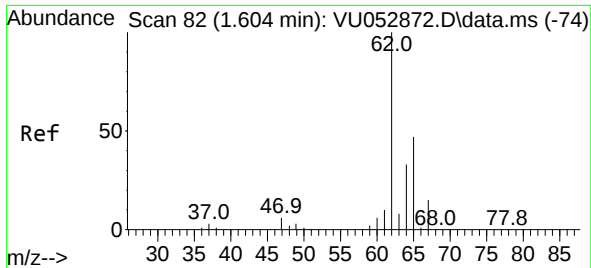
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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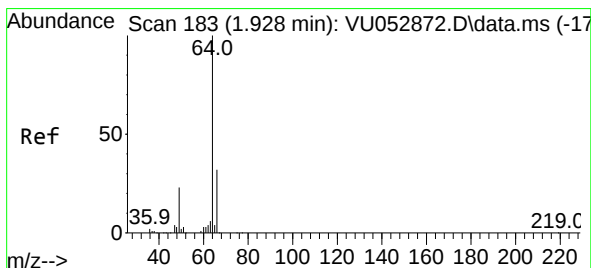
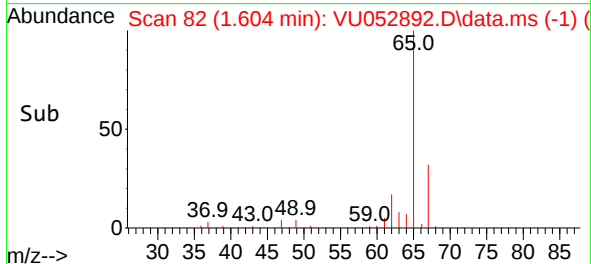
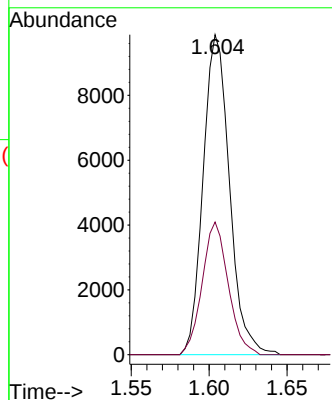
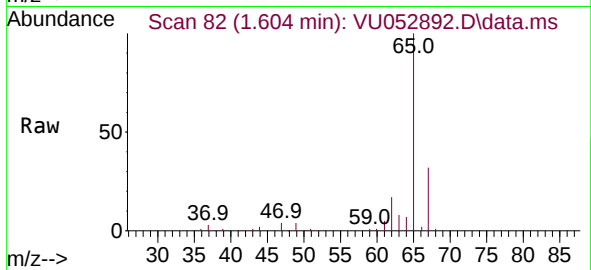




#5
 Vinyl chloride
 Concen: 5.525 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. 0.000 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

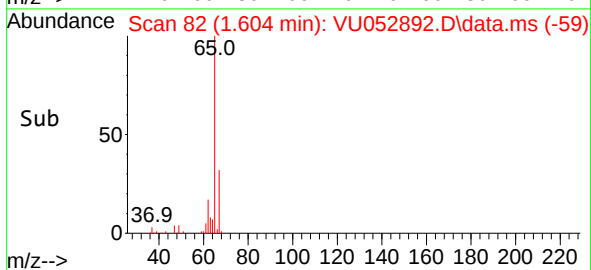
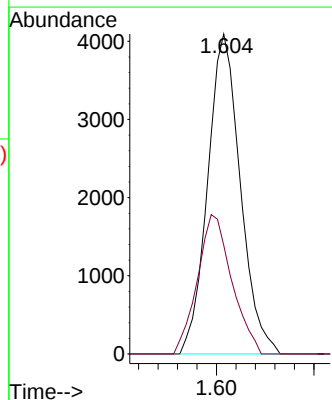
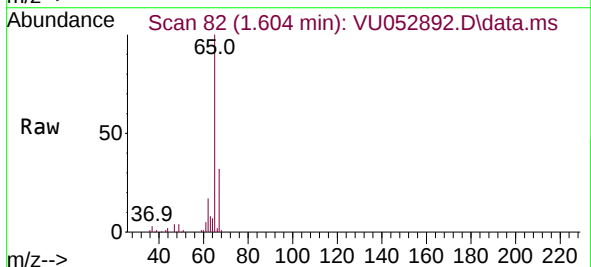
Instrument :
 MSVOA_U
 ClientSampleId :

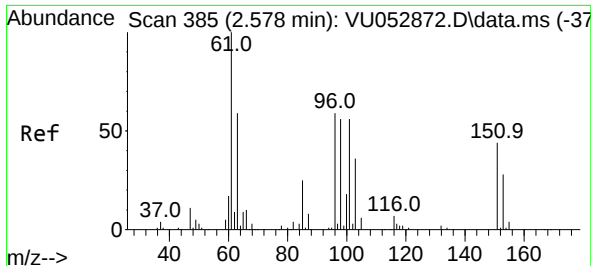
Tgt Ion: 62 Resp: 11621
 Ion Ratio Lower Upper
 62 100
 64 41.5 22.4 41.6



#8
 Chloroethane
 Concen: 3.606 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.325 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

Tgt Ion: 64 Resp: 4764
 Ion Ratio Lower Upper
 64 100
 66 34.0 24.1 44.7

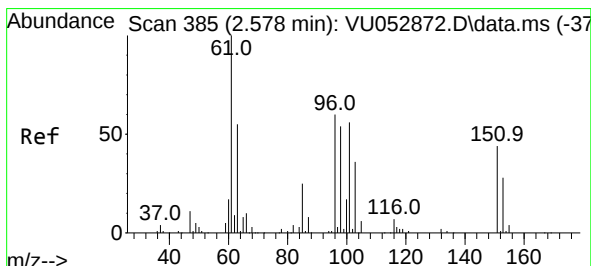
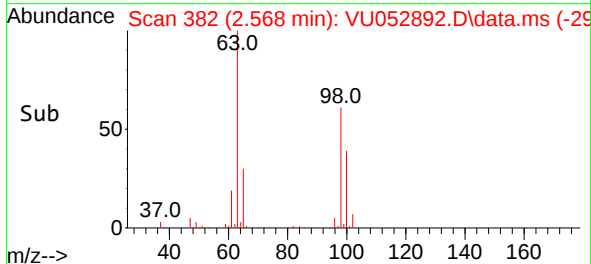
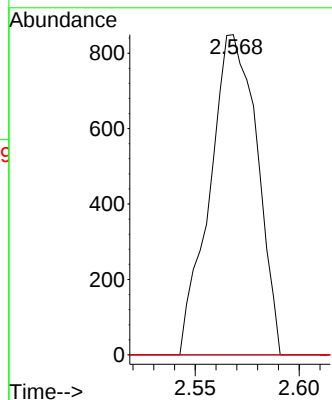
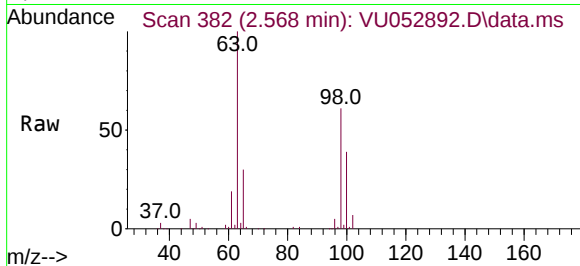




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.677 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.010 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

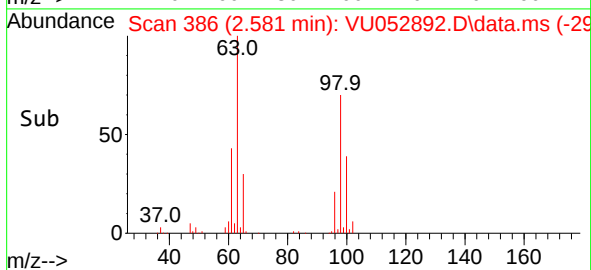
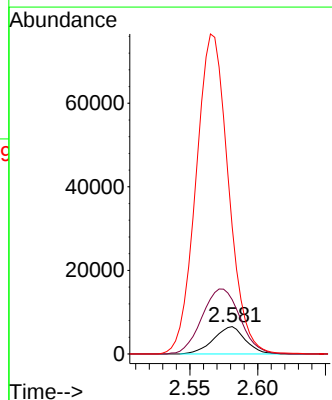
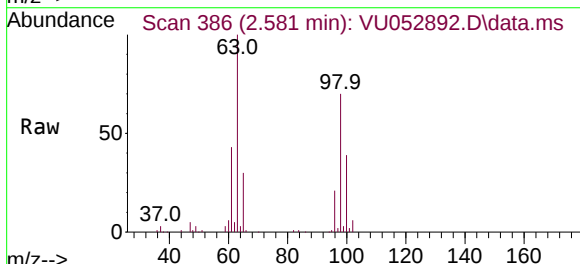
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 MSVOA_U
 ClientSampleId :

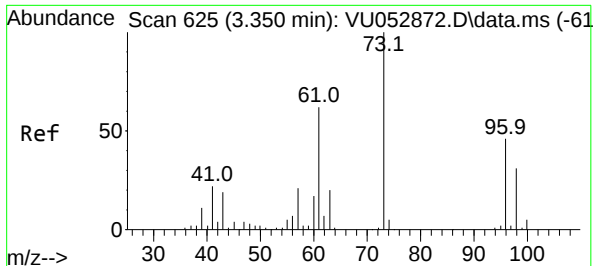
Tgt Ion:101 Resp: 1345
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.9 49.3#
 151 0.0 62.6 94.0#



#12
 1,1-Dichloroethene
 Concen: 5.828 ug/L
 RT: 2.581 min Scan# 386
 Delta R.T. 0.003 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

Tgt Ion: 96 Resp: 10614
 Ion Ratio Lower Upper
 96 100
 61 198.5 114.3 212.3
 63 465.3 80.6 149.6#





#17

trans-1,2-Dichloroethene

Concen: 9.822 ug/L

RT: 3.353 min Scan# 61

Delta R.T. 0.003 min

Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

Instrument :

MSVOA_U

ClientSampleId :

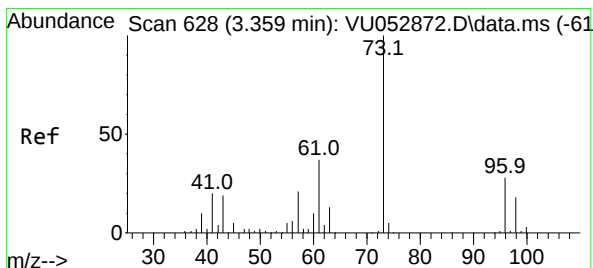
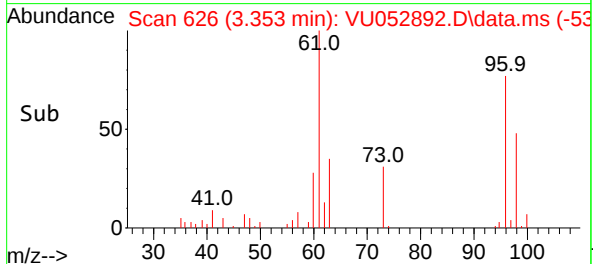
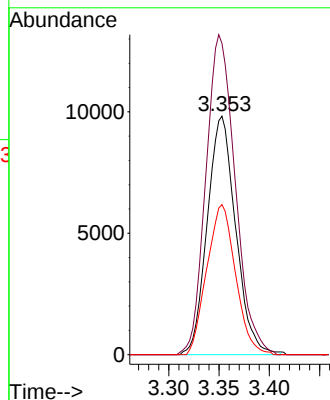
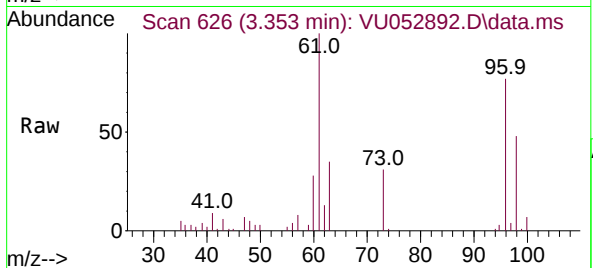
Tgt Ion: 96 Resp: 19331

Ion Ratio Lower Upper

96 100

61 130.5 92.7 172.3

98 62.9 44.7 82.9



#18

Methyl tert-butyl Ether

Concen: 1.758 ug/L

RT: 3.359 min Scan# 628

Delta R.T. 0.000 min

Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

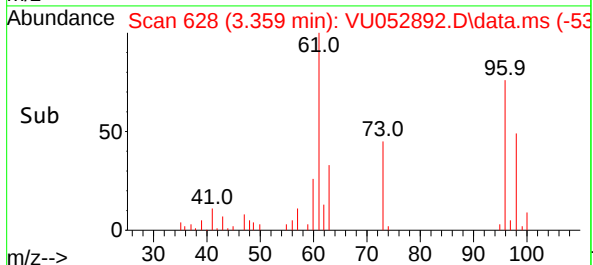
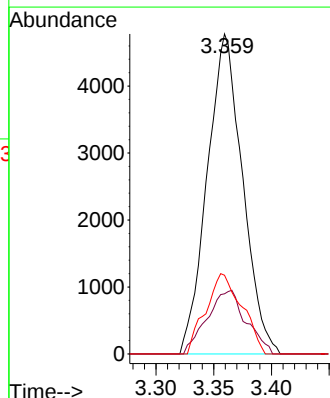
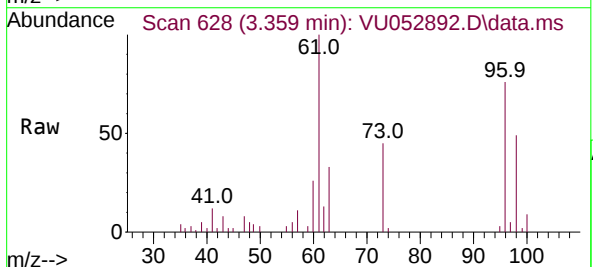
Tgt Ion: 73 Resp: 10172

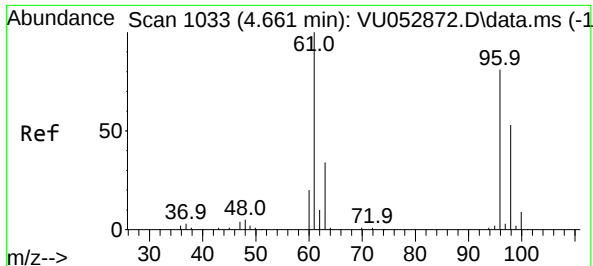
Ion Ratio Lower Upper

73 100

43 22.0 14.2 21.2#

57 25.6 16.3 24.5#





#20

cis-1,2-Dichloroethene

Concen: 1155.412 ug/L

RT: 4.661 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

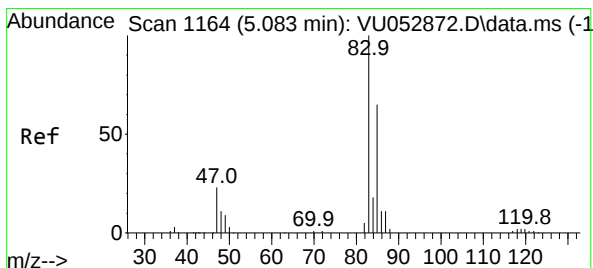
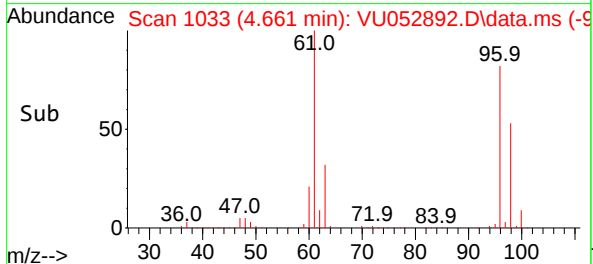
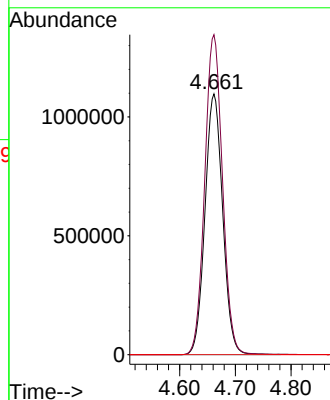
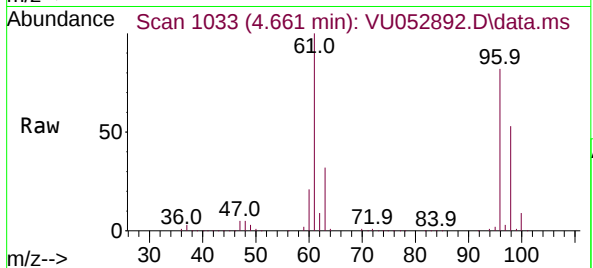
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 2427816

Ion	Ratio	Lower	Upper
96	100		
61	122.7	84.1	156.1
68	0.0	0.0	0.0



#25

Chloroform

Concen: 0.754 ug/L

RT: 5.083 min Scan# 1164

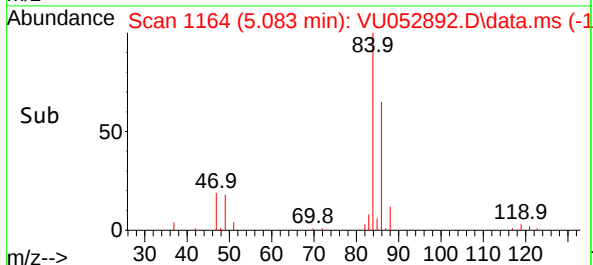
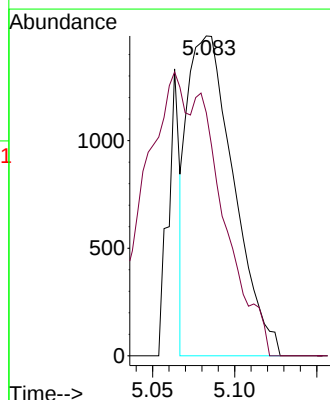
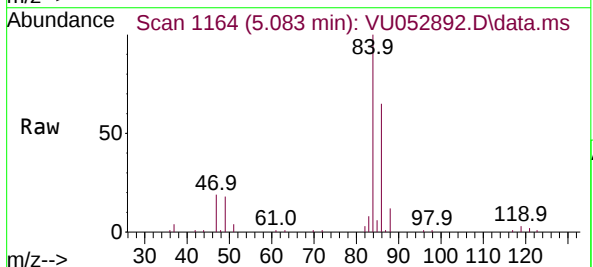
Delta R.T. 0.000 min

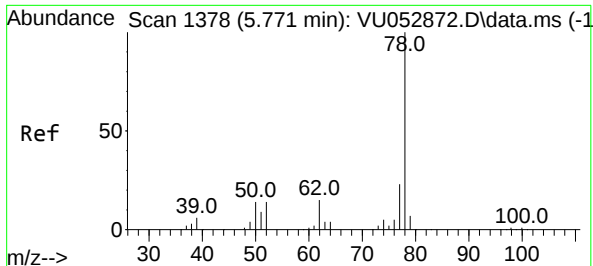
Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

Tgt Ion: 83 Resp: 2923

Ion	Ratio	Lower	Upper
83	100		
85	76.0	45.8	85.0

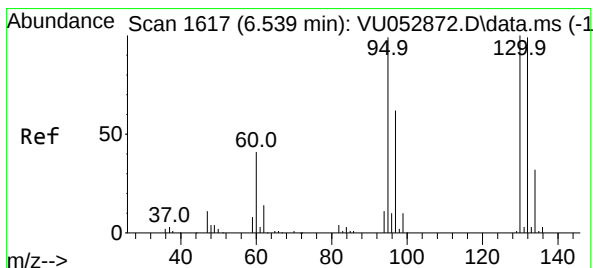
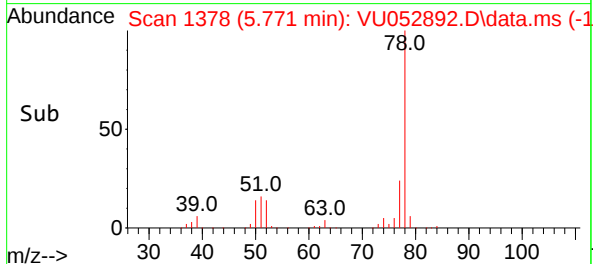
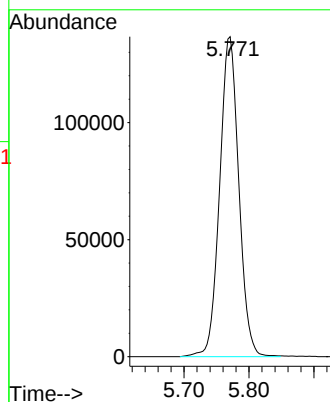
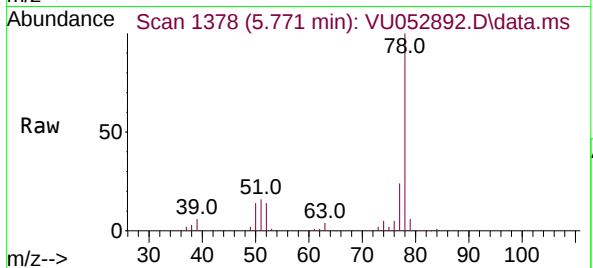




#33
Benzene
Concen: 33.095 ug/L
RT: 5.771 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

Instrument :
MSVOA_U
ClientSampleId :

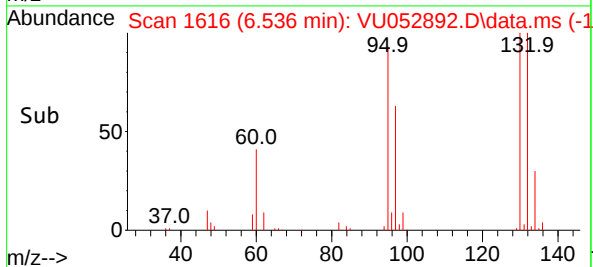
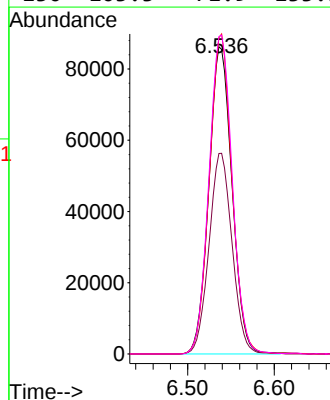
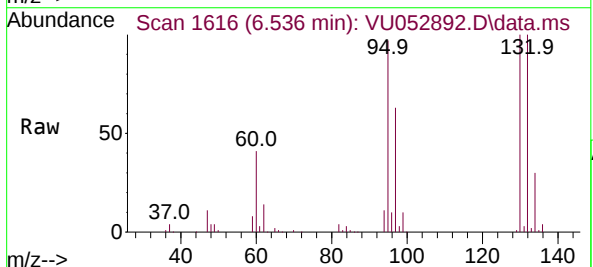
Tgt Ion: 78 Resp: 279316

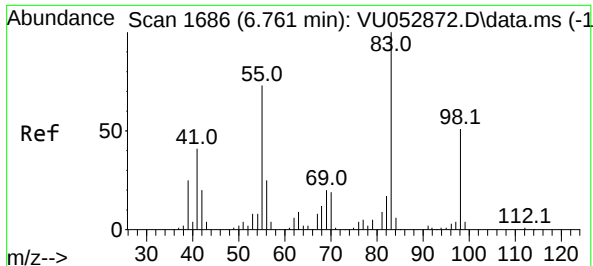


#34
Trichloroethene
Concen: 74.826 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

Tgt Ion: 95 Resp: 160515

Ion	Ratio	Lower	Upper
95	100		
97	65.3	44.5	82.7
132	102.9	66.8	124.0
130	103.3	71.9	133.5

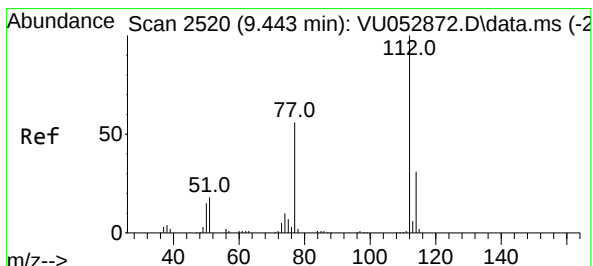
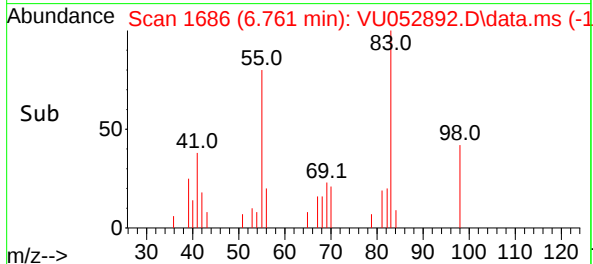
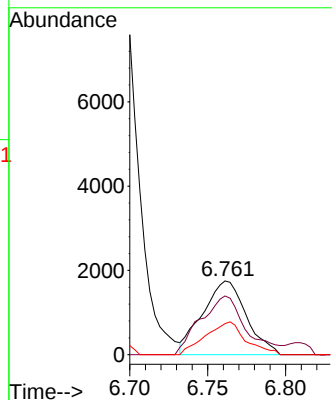
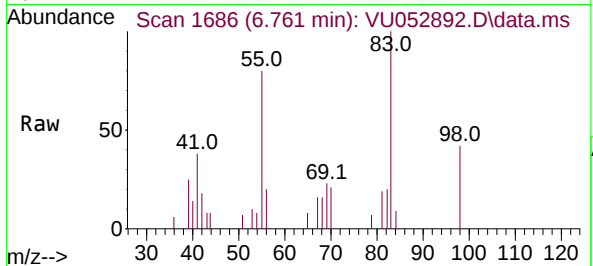




#35
Methylcyclohexane
Concen: 1.003 ug/L
RT: 6.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

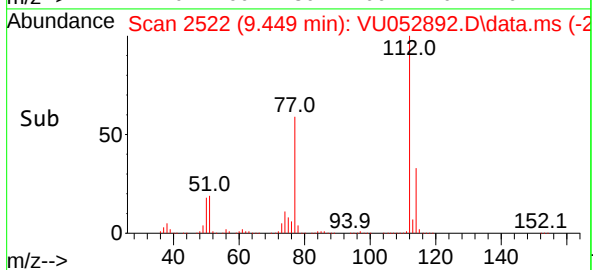
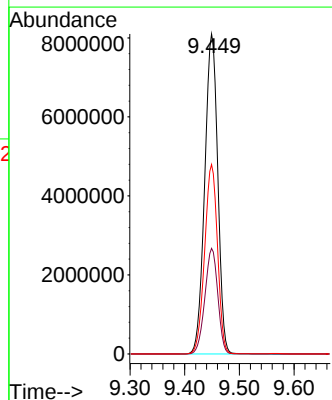
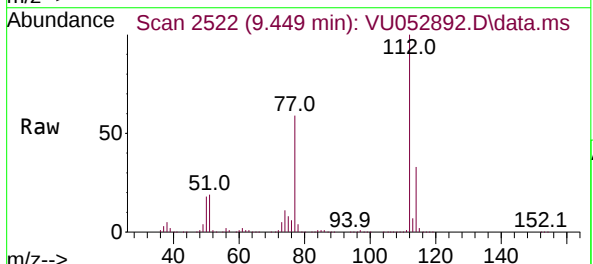
Instrument :
MSVOA_U
ClientSampleId :

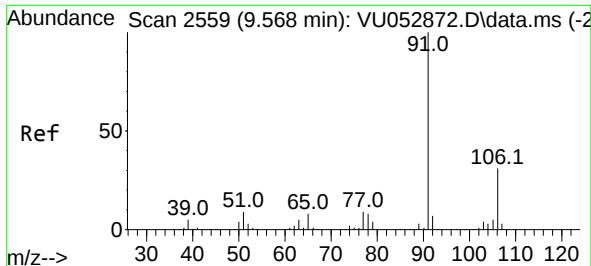
Tgt Ion: 83 Resp: 3406
Ion Ratio Lower Upper
83 100
55 82.6 57.1 85.7
98 40.9 38.9 58.3



#51
Chlorobenzene
Concen: 2250.628 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.007 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

Tgt Ion: 112 Resp: 13393570
Ion Ratio Lower Upper
112 100
114 33.0 22.8 42.4
77 59.2 45.9 68.9

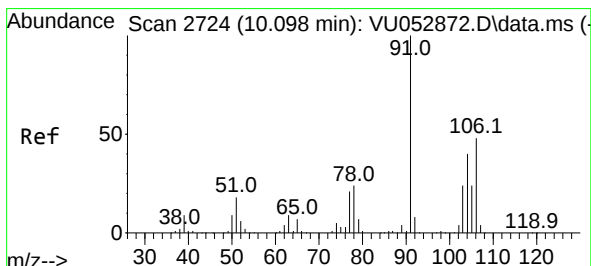
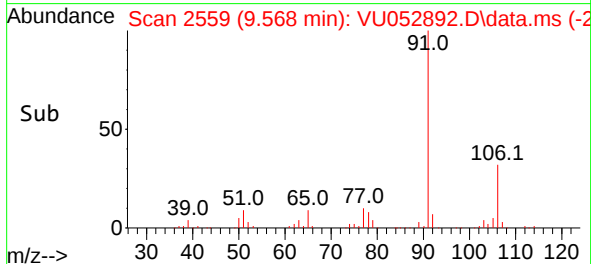
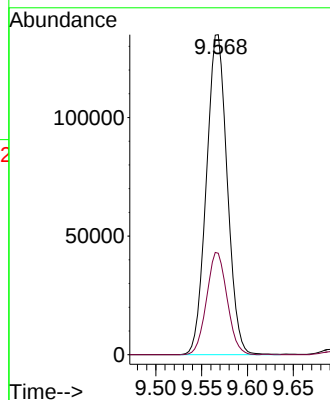
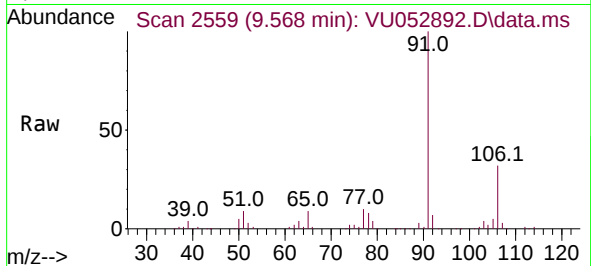




#52
Ethylbenzene
Concen: 23.057 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

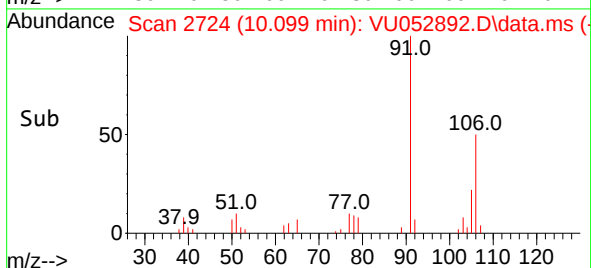
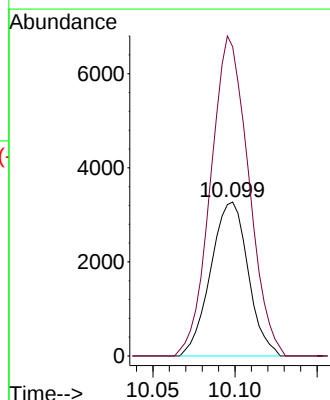
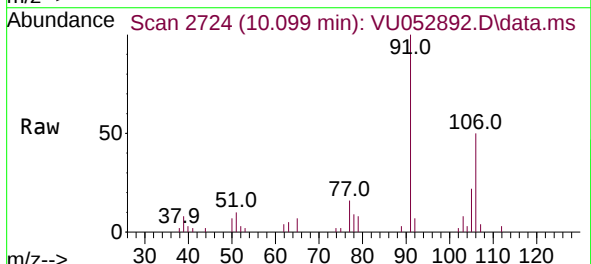
Instrument :
MSVOA_U
ClientSampleId :

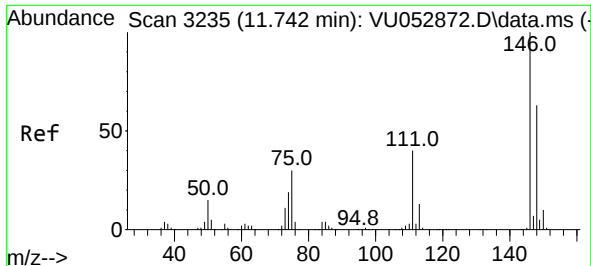
Tgt Ion: 91 Resp: 213132
Ion Ratio Lower Upper
91 100
106 31.7 22.0 40.8



#54
o-xylene
Concen: 1.450 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

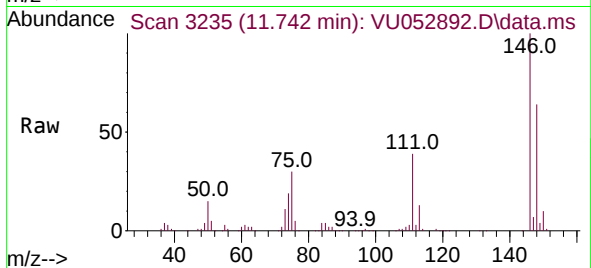
Tgt Ion: 106 Resp: 5181
Ion Ratio Lower Upper
106 100
91 200.9 143.4 266.2



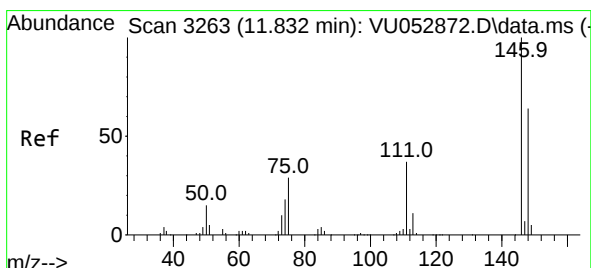
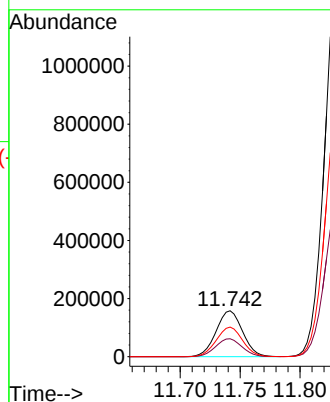
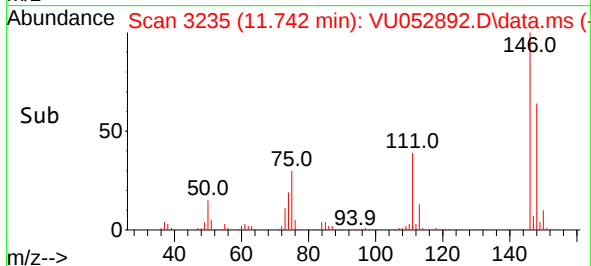


#64
1,3-Dichlorobenzene
Concen: 51.303 ug/L
RT: 11.742 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24

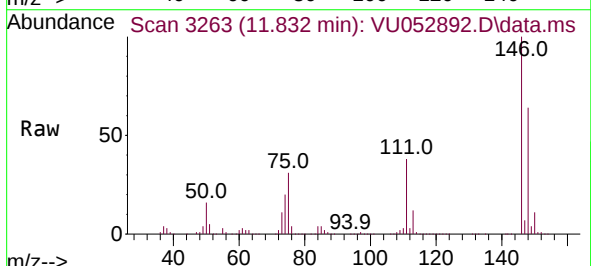
Instrument :
MSVOA_U
ClientSampleId :



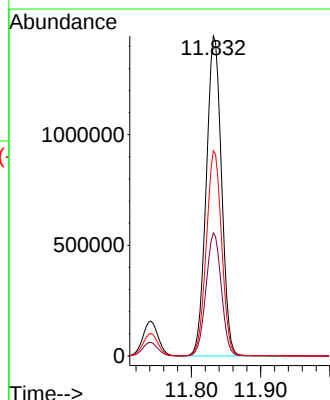
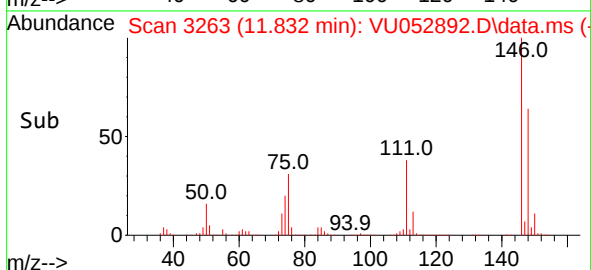
Tgt Ion:146 Resp: 242373
Ion Ratio Lower Upper
146 100
111 39.0 27.8 51.6
148 64.4 45.5 84.5

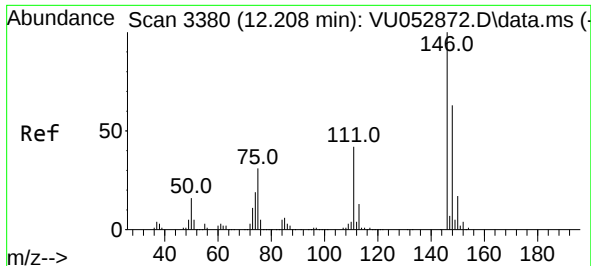


#65
1,4-Dichlorobenzene
Concen: 450.666 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU052892.D
Acq: 31 Jan 2023 20:24



Tgt Ion:146 Resp: 2204122
Ion Ratio Lower Upper
146 100
111 38.5 26.7 49.7
148 64.1 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 2468.911 ug/L

RT: 12.217 min Scan# 31

Delta R.T. 0.010 min

Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

Instrument :

MSVOA_U

ClientSampleId :

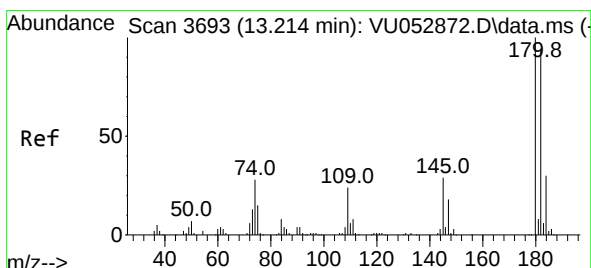
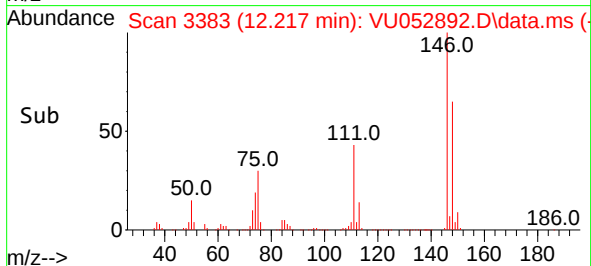
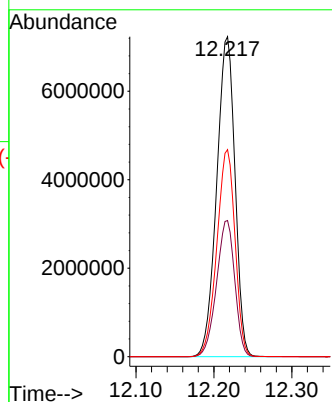
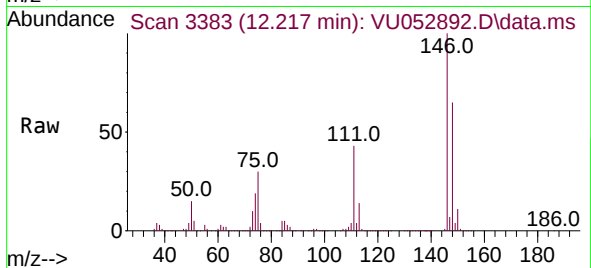
Tgt Ion:146 Resp:11797705

Ion Ratio Lower Upper

146 100

111 42.6 33.2 49.8

148 64.7 50.2 75.4



#69

1,3,5-Trichlorobenzene

Concen: 1.245 ug/L

RT: 13.217 min Scan# 3694

Delta R.T. 0.003 min

Lab File: VU052892.D

Acq: 31 Jan 2023 20:24

Tgt Ion:180 Resp: 4355

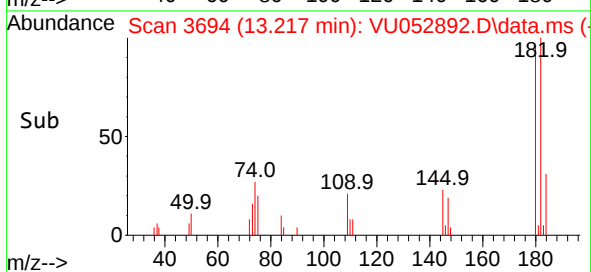
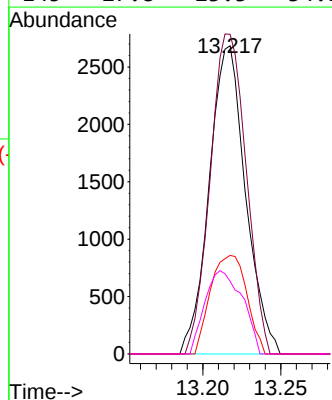
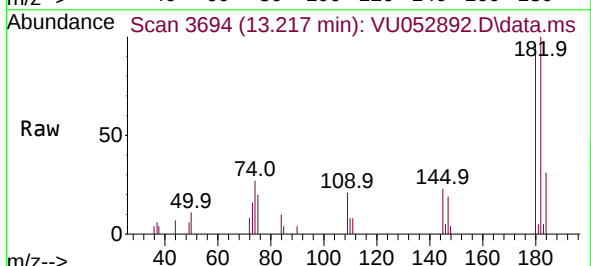
Ion Ratio Lower Upper

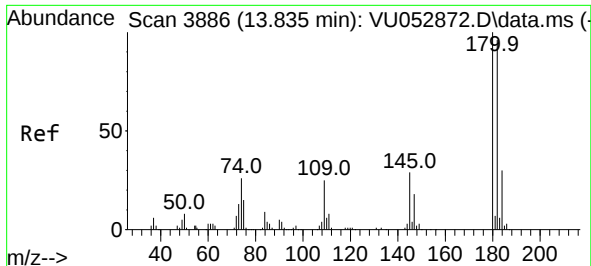
180 100

182 102.3 77.0 115.6

184 31.9 24.4 36.6

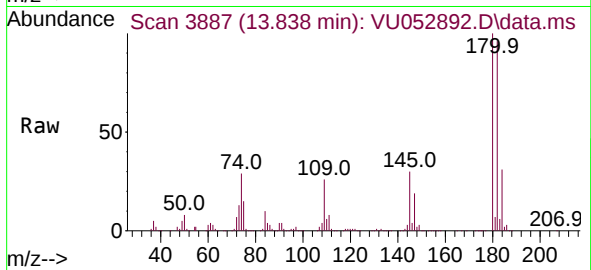
145 27.8 23.3 34.9





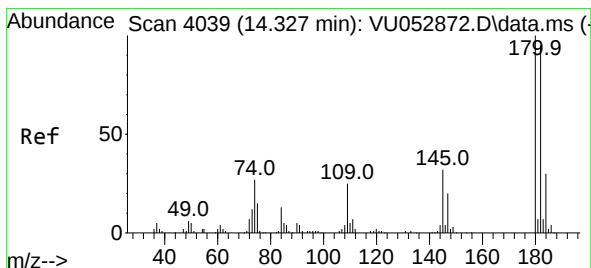
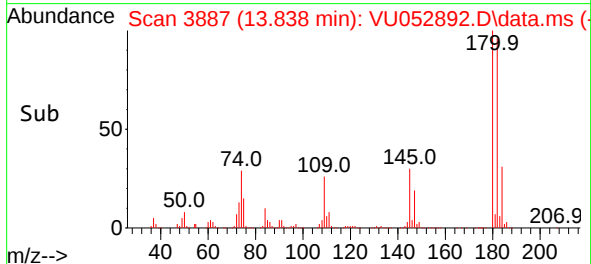
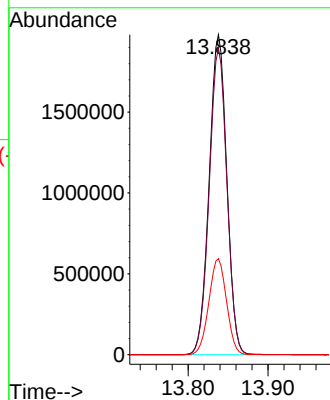
#70
 1,2,4-trichlorobenzene
 Concen: 1033.298 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 3029913

Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.2	117.2
145	30.1	23.4	35.2



#72
 1,2,3-Trichlorobenzene
 Concen: 209.699 ug/L
 RT: 14.323 min Scan# 4038
 Delta R.T. -0.003 min
 Lab File: VU052892.D
 Acq: 31 Jan 2023 20:24

Tgt Ion:180 Resp: 649834

Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.5	116.3
145	31.7	24.2	36.4

