

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091823\
 Data File : VU055370.D
 Acq On : 18 Sep 2023 13:22
 Operator : MD/SY
 Sample : 04398-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 19 01:15:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091523WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 19 01:12:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	193473	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	199932	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	103337	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	26041	2.342	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	46.800%
7) Chloroethane-d5	1.910	69	44414	3.538	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.800%
11) 1,1-Dichloroethene-d2	2.563	65	14703	3.655	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.200%
20) 2-Butanone-d5	4.653	46	3951	1.285	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	2.560%#
24) Chloroform-d	5.061	84	111934	4.507	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
26) 1,2-Dichloroethane-d4	5.701	65	57622	4.598	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.000%
32) Benzene-d6	5.727	84	204630	4.883	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.600%
36) 1,2-Dichloropropane-d6	6.695	67	65895	4.614	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.200%
41) Toluene-d8	7.897	98	170067	4.707	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.200%
43) trans-1,3-Dichloroprop...	8.180	79	13877	2.739	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	54.800%#
46) 2-Hexanone-d5	8.634	63	101835	55.238	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.480%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	62237	5.012	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.200%
66) 1,2-Dichlorobenzene-d4	12.190	152	66498	4.997	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	120131	6.262	ug/L	98
12) 1,1-Dichloroethene	2.579	96	225932	16.609	ug/L #	82
16) Methylene chloride	3.039	84	7400	0.365	ug/L	87
17) Methyl tert-butyl Ether	3.361	73	9532	0.292	ug/L #	93
18) trans-1,2-Dichloroethene	3.351	96	681762	45.583	ug/L	100
19) 1,1-Dichloroethane	3.872	63	13203	0.454	ug/L	95
25) Chloroform	5.084	83	21937	0.696	ug/L	94
27) 1,2-Dichloroethane	5.798	62	8029	0.411	ug/L #	82
30) Cyclohexane	5.386	56	60725	2.532	ug/L	99
33) Benzene	5.775	78	180428	2.727	ug/L	100
35) Methylcyclohexane	6.766	83	32635	1.192	ug/L #	55
37) 1,2-Dichloropropane	6.557	63	361622	20.809	ug/L #	90
42) Toluene	7.971	91	12366	0.171	ug/L	95
45) 1,1,2-Trichloroethane	8.396	97	35932	2.983	ug/L	97
47) Tetrachloroethene	8.553	164	73866	5.722	ug/L	95
48) 2-Hexanone	8.682	43	18733	3.014	ug/L #	89
49) Dibromochloromethane	8.550	129	73476	5.961	ug/L #	11
51) Chlorobenzene	9.444	112	1250108	26.724	ug/L	99
61) 1,2,3-Trichloropropane	11.743	75	132127	13.203	ug/L #	48

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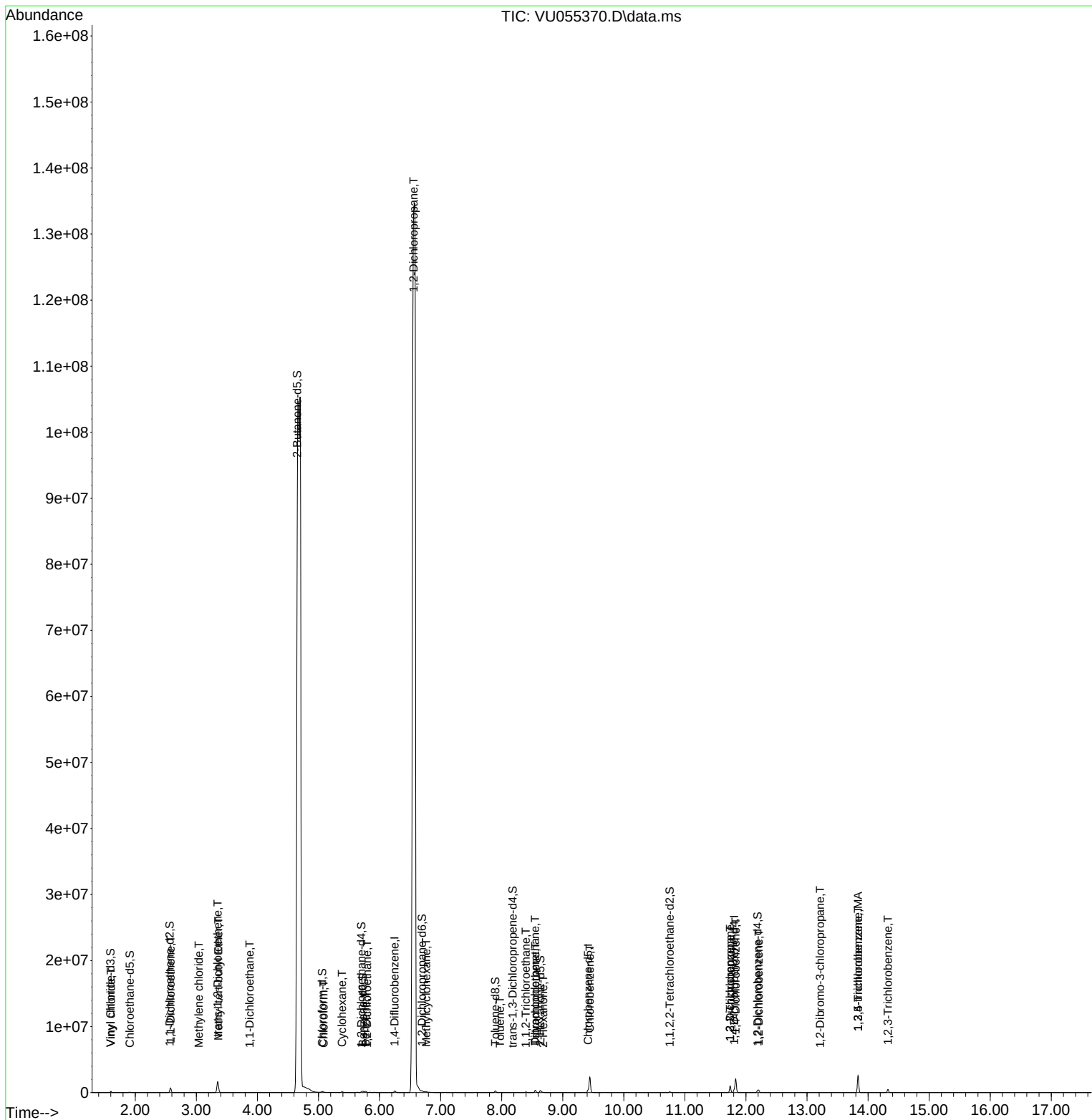
Quant Time: Sep 19 01:15:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091523WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 19 01:12:51 2023
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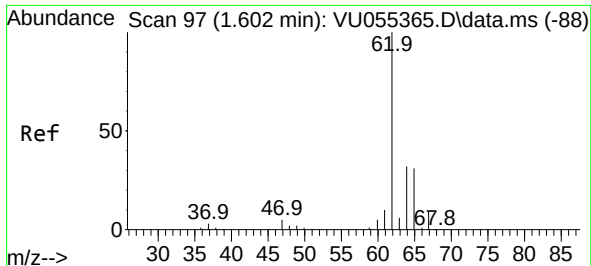
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

64) 1,3-Dichlorobenzene	11.743	146	397904	11.447	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	801703	23.599	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	129110	4.143	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.216	75	389	0.227	ug/L #	9
69) 1,3,5-Trichlorobenzene	13.836	180	711748	30.057	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	711748	39.164	ug/L	100
72) 1,2,3-Trichlorobenzene	14.325	180	138483	8.802	ug/L	99

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

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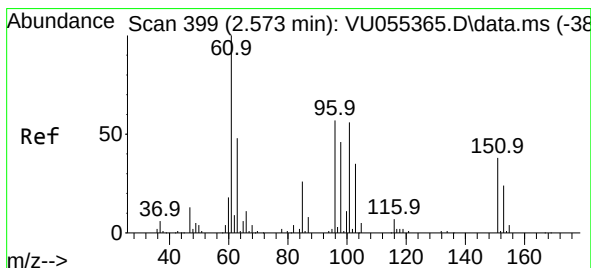
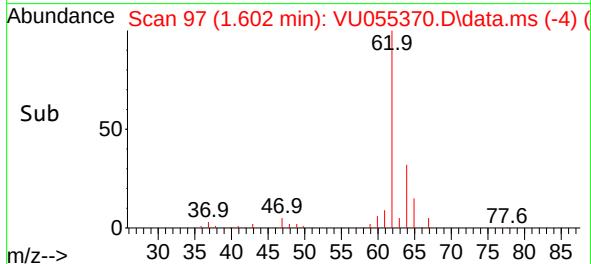
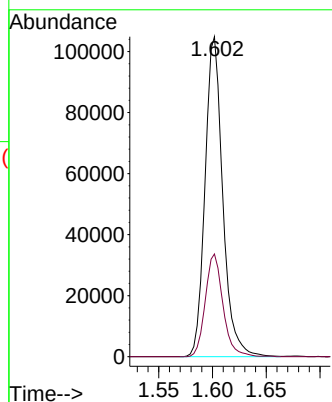
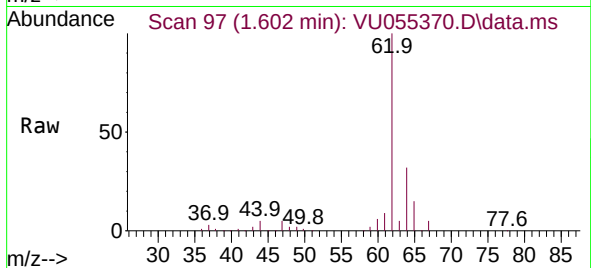




#5
 Vinyl chloride
 Concen: 6.262 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055370.D
 Acq: 18 Sep 2023 13:22

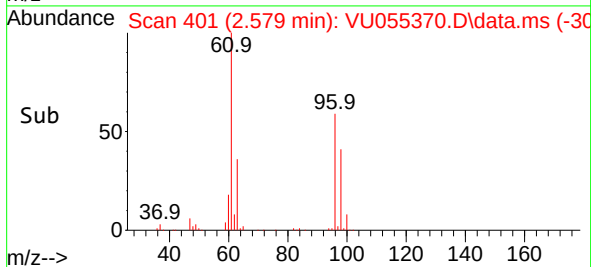
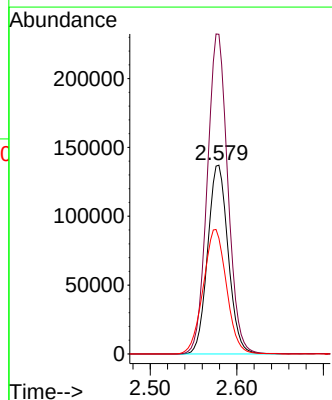
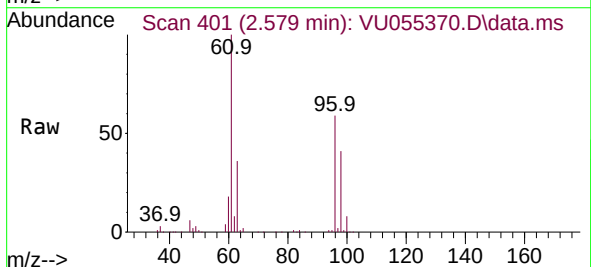
Instrument :
 MSVOA_U
 ClientSampleId :

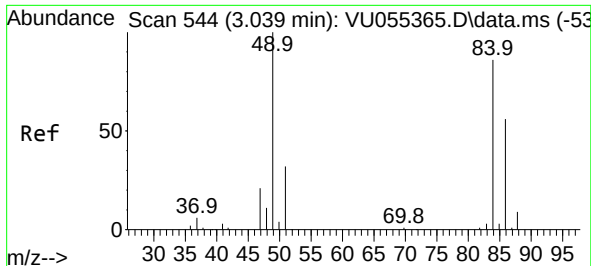
Tgt Ion: 62 Resp: 120131
 Ion Ratio Lower Upper
 62 100
 64 32.1 23.4 43.6



#12
 1,1-Dichloroethene
 Concen: 16.609 ug/L
 RT: 2.579 min Scan# 401
 Delta R.T. 0.006 min
 Lab File: VU055370.D
 Acq: 18 Sep 2023 13:22

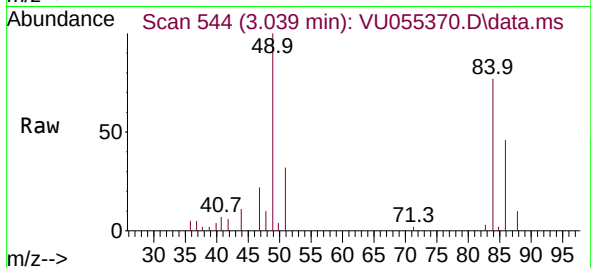
Tgt Ion: 96 Resp: 225932
 Ion Ratio Lower Upper
 96 100
 61 169.2 122.8 228.0
 63 61.3 71.7 133.3#





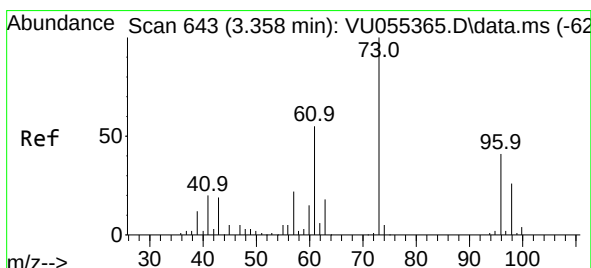
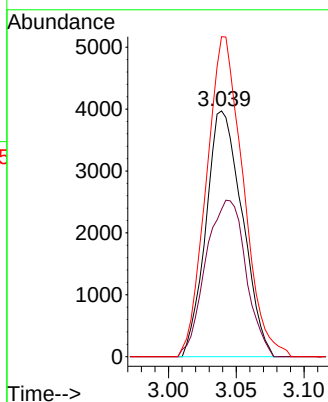
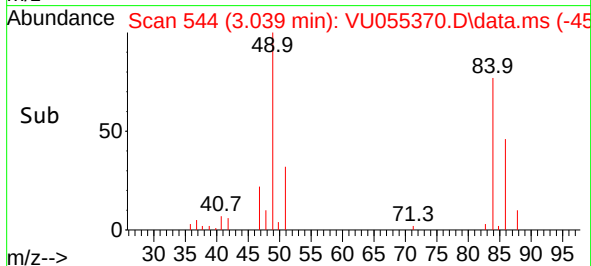
#16
Methylene chloride
Concen: 0.365 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
MSVOA_U
ClientSampleId :

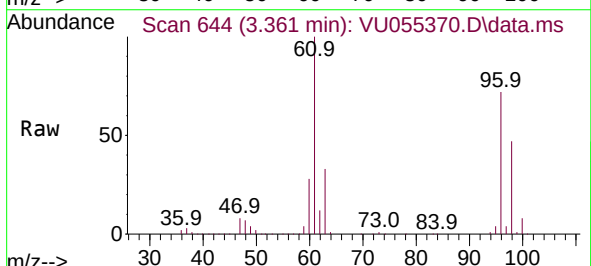


Tgt Ion: 84 Resp: 7400

Ion	Ratio	Lower	Upper
84	100		
86	60.0	42.4	78.8
49	135.1	79.9	148.3

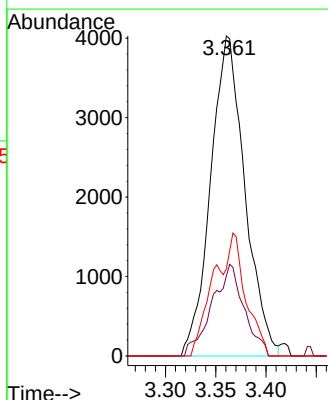
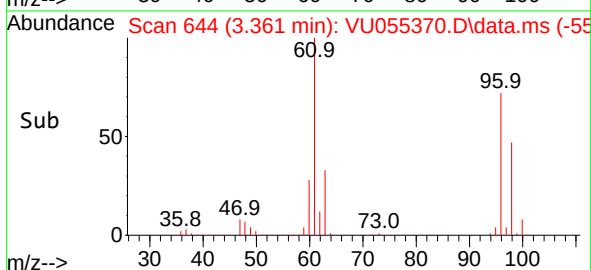


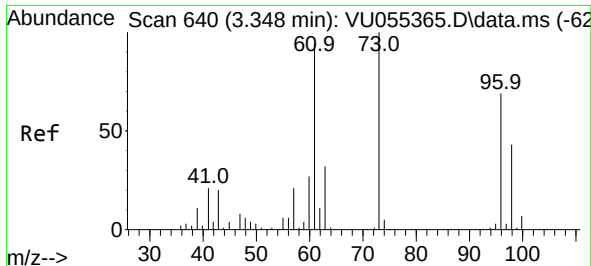
#17
Methyl tert-butyl Ether
Concen: 0.292 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion: 73 Resp: 9532

Ion	Ratio	Lower	Upper
73	100		
43	26.9	16.0	24.0#
57	21.2	17.2	25.8

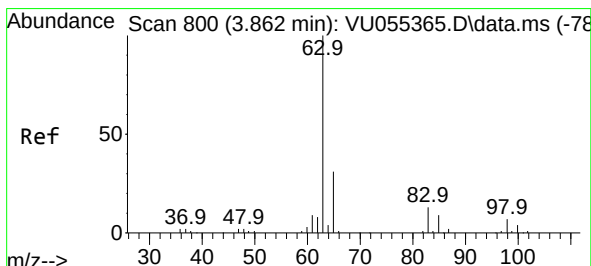
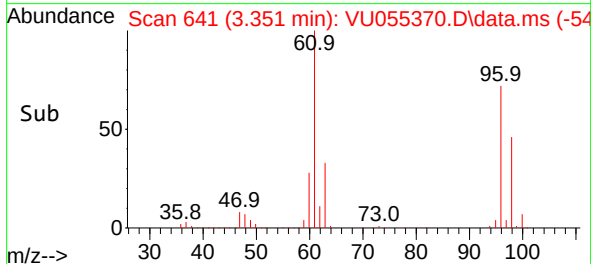
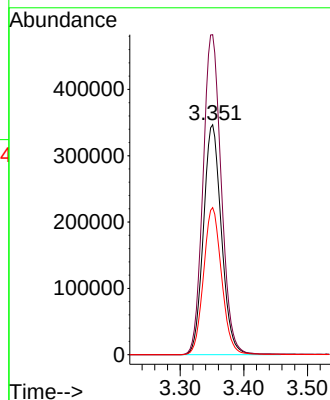
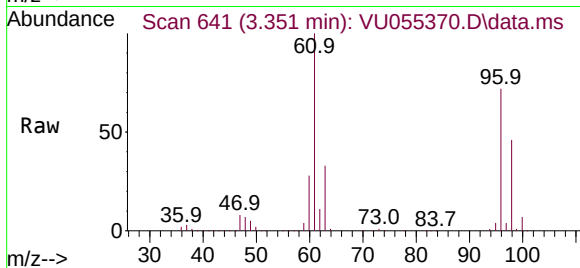




#18
trans-1,2-Dichloroethene
Concen: 45.583 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

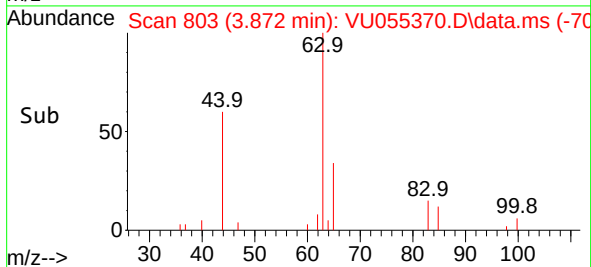
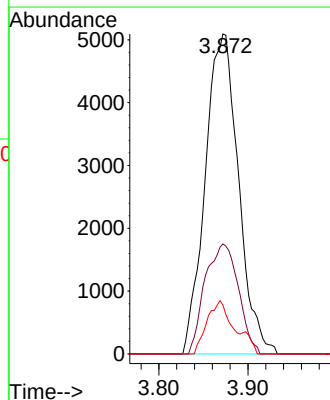
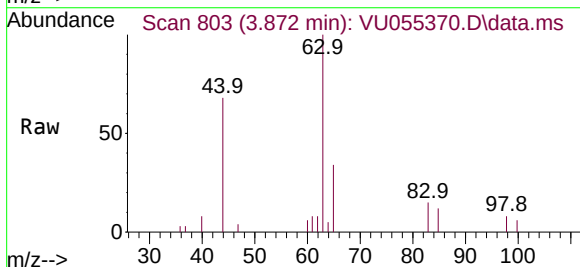
Instrument :
MSVOA_U
ClientSampleId :

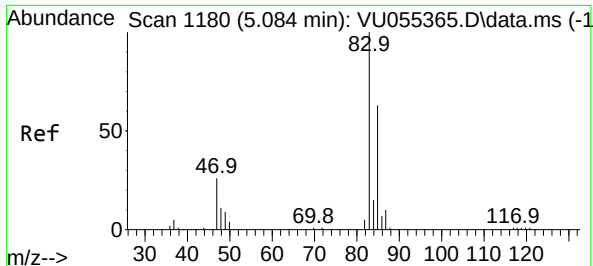
Tgt Ion: 96 Resp: 681762
Ion Ratio Lower Upper
96 100
61 139.2 97.4 181.0
98 64.0 44.6 82.8



#19
1,1-Dichloroethane
Concen: 0.454 ug/L
RT: 3.872 min Scan# 803
Delta R.T. 0.009 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion: 63 Resp: 13203
Ion Ratio Lower Upper
63 100
65 34.4 21.8 40.6
83 15.3 9.7 17.9





#25

Chloroform

Concen: 0.696 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Instrument :

MSVOA_U

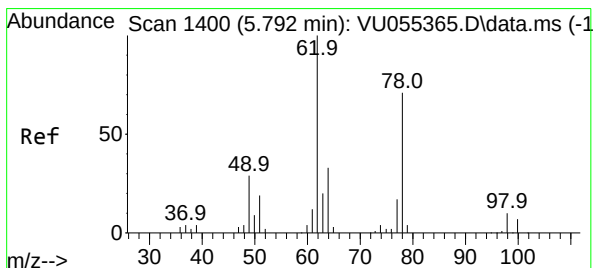
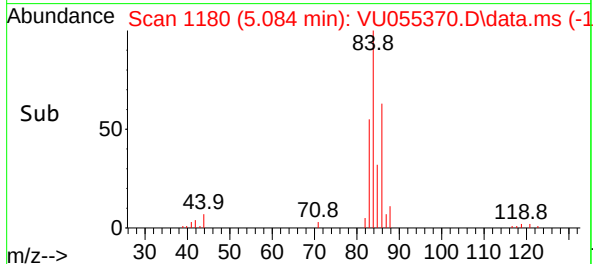
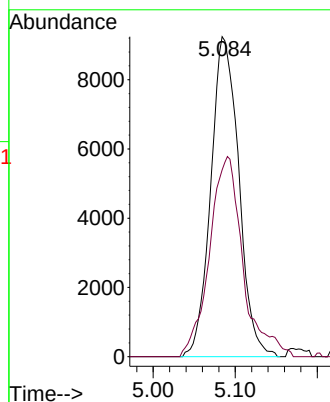
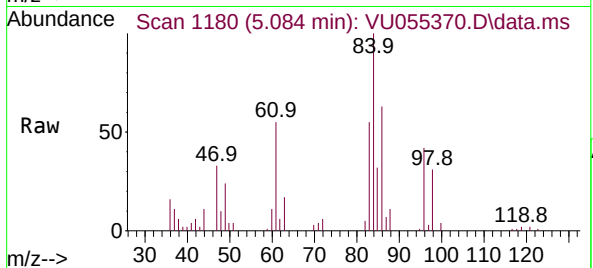
ClientSampleId :

Tgt Ion: 83 Resp: 21937

Ion Ratio Lower Upper

83 100

85 58.4 44.4 82.4



#27

1,2-Dichloroethane

Concen: 0.411 ug/L

RT: 5.798 min Scan# 1402

Delta R.T. 0.006 min

Lab File: VU055370.D

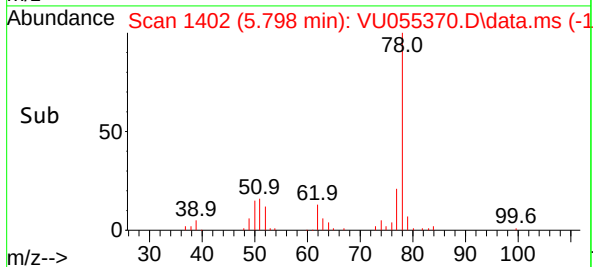
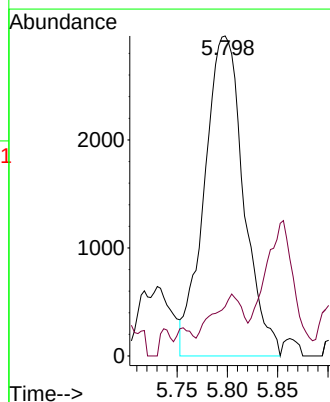
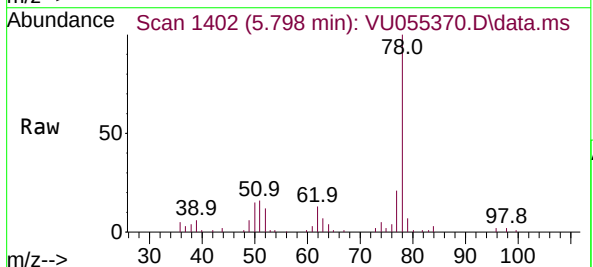
Acq: 18 Sep 2023 13:22

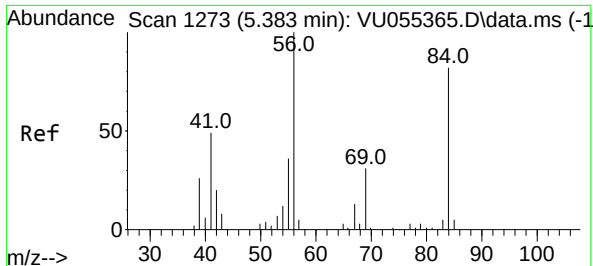
Tgt Ion: 62 Resp: 8029

Ion Ratio Lower Upper

62 100

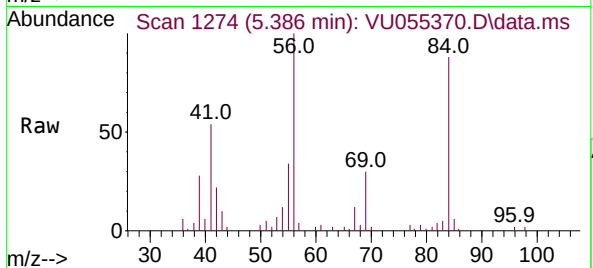
98 15.5 7.1 10.7#



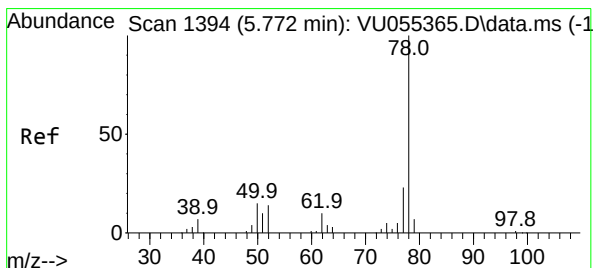
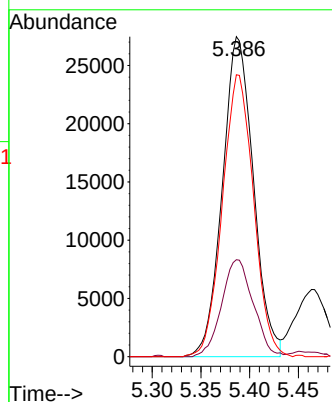
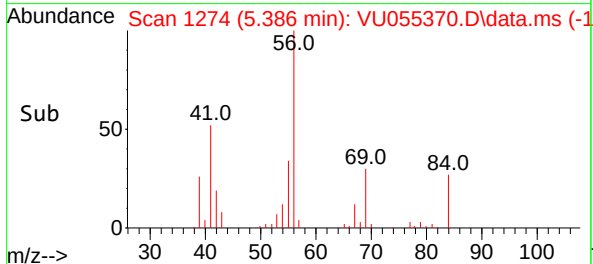


#30
Cyclohexane
Concen: 2.532 ug/L
RT: 5.386 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
MSVOA_U
ClientSampleId :

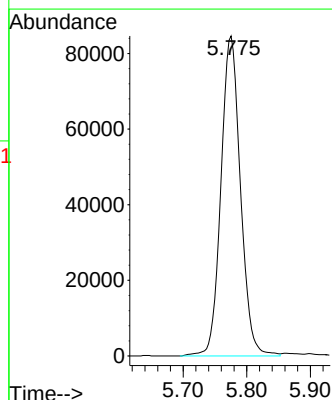
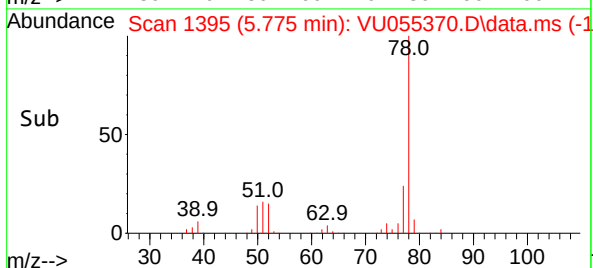
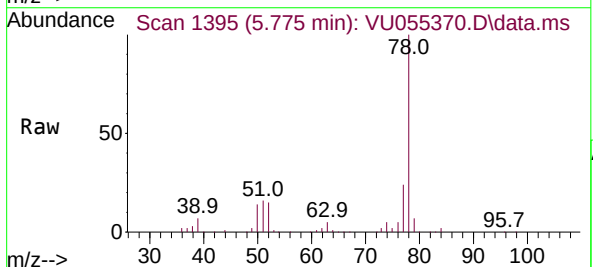


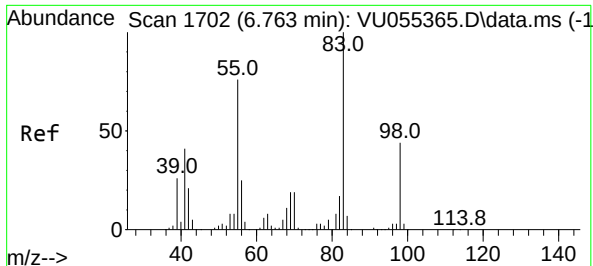
Tgt Ion: 56 Resp: 60725
Ion Ratio Lower Upper
56 100
69 30.9 25.0 37.6
84 88.6 70.2 105.4



#33
Benzene
Concen: 2.727 ug/L
RT: 5.775 min Scan# 1395
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion: 78 Resp: 180428

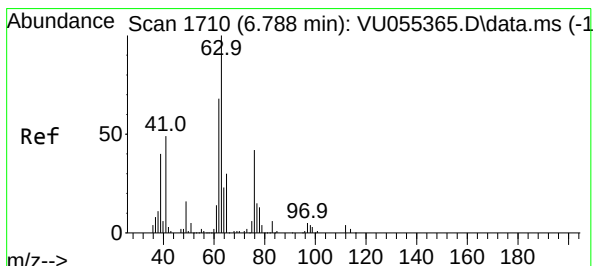
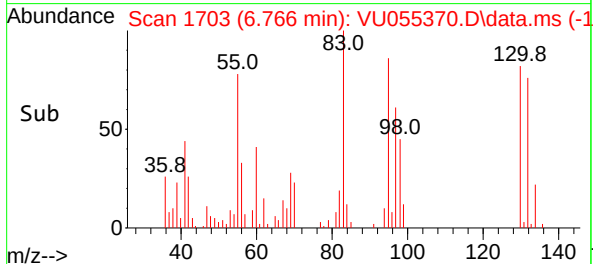
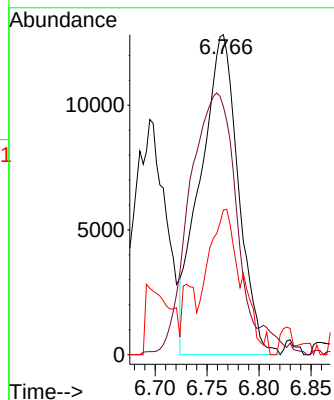
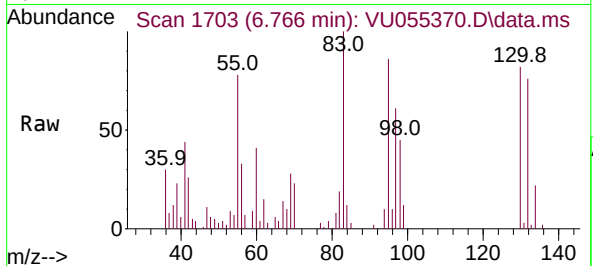




#35
Methylcyclohexane
Concen: 1.192 ug/L
RT: 6.766 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

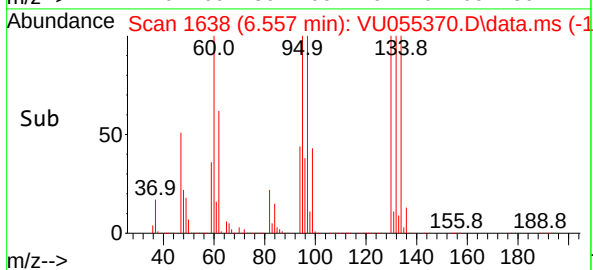
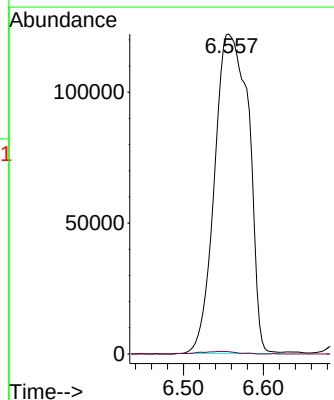
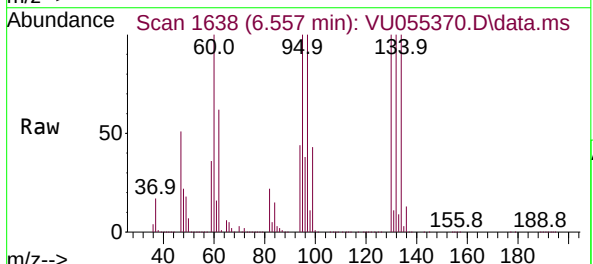
Instrument :
MSVOA_U
ClientSampleId :

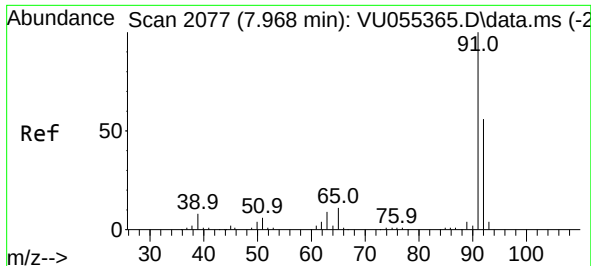
Tgt Ion: 83 Resp: 32635
Ion Ratio Lower Upper
83 100
55 99.3 58.7 88.1#
98 0.0 36.3 54.5#



#37
1,2-Dichloropropane
Concen: 20.809 ug/L
RT: 6.557 min Scan# 1638
Delta R.T. -0.232 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion: 63 Resp: 361622
Ion Ratio Lower Upper
63 100
112 0.4 3.0 4.4#





#42

Toluene

Concen: 0.171 ug/L

RT: 7.971 min Scan# 2077

Delta R.T. 0.003 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Instrument :

MSVOA_U

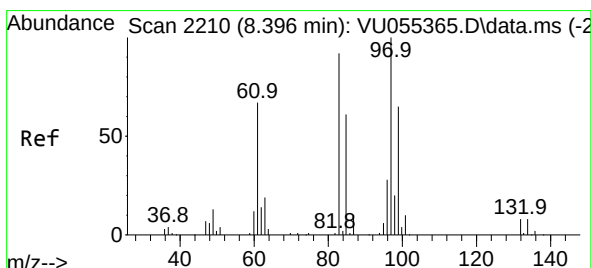
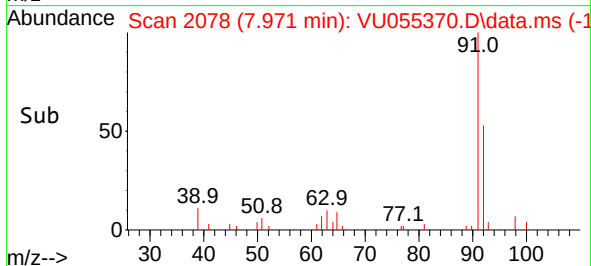
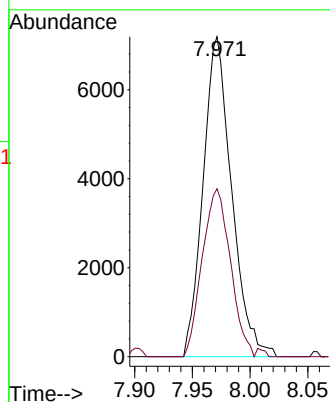
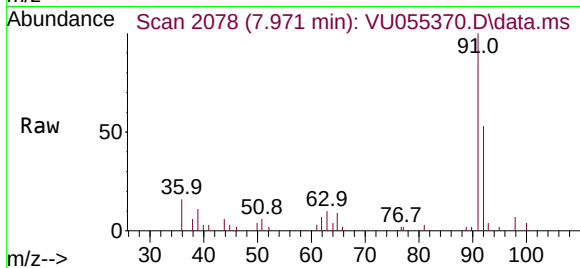
ClientSampleId :

Tgt Ion: 91 Resp: 12366

Ion Ratio Lower Upper

91 100

92 52.5 39.5 73.4



#45

1,1,2-Trichloroethane

Concen: 2.983 ug/L

RT: 8.396 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Tgt Ion: 97 Resp: 35932

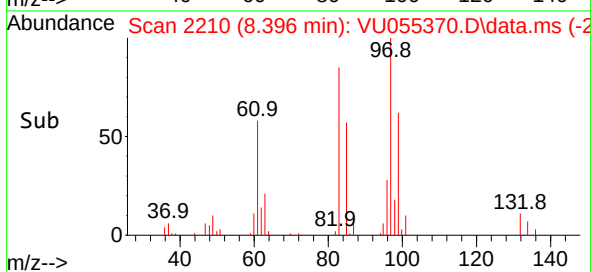
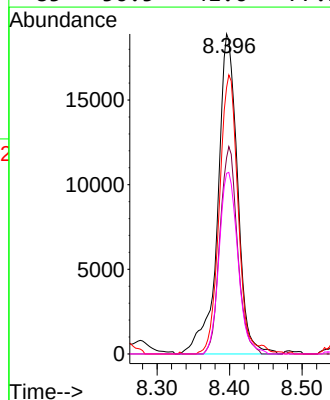
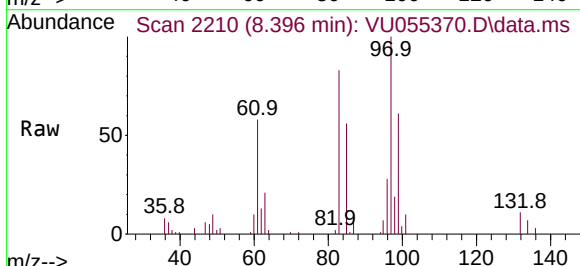
Ion Ratio Lower Upper

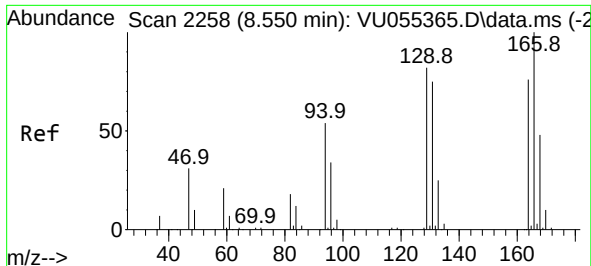
97 100

99 61.4 42.4 78.6

83 83.3 61.3 113.9

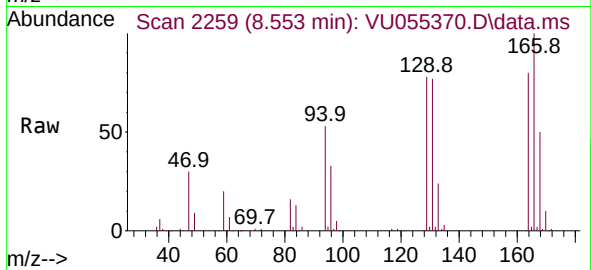
85 56.5 41.6 77.2



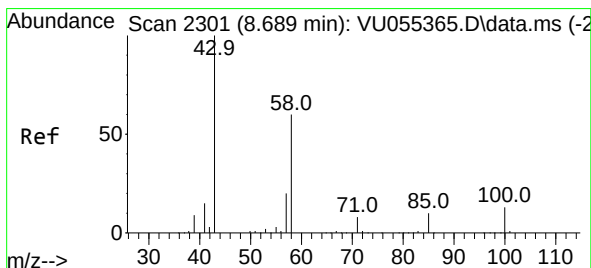
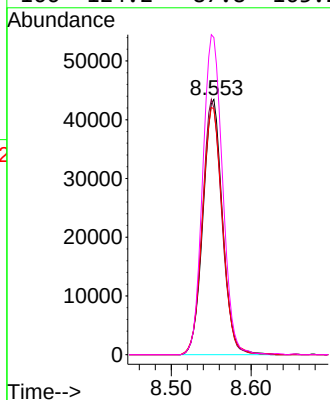
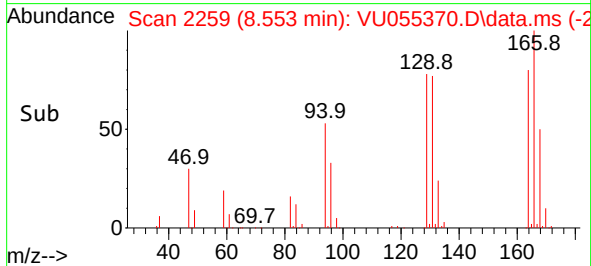


#47
Tetrachloroethene
Concen: 5.722 ug/L
RT: 8.553 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

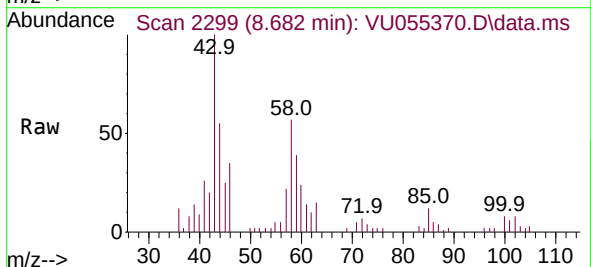
Instrument :
MSVOA_U
ClientSampleId :



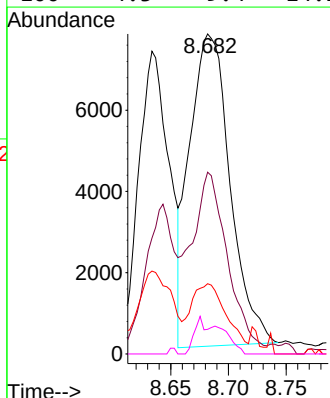
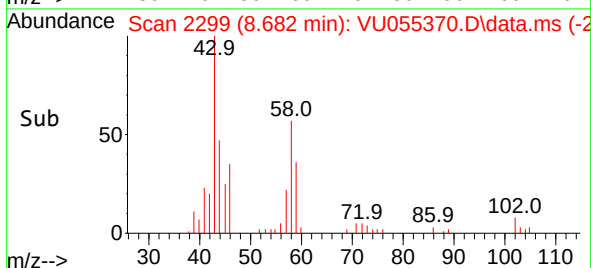
Tgt Ion:164 Resp: 73866
Ion Ratio Lower Upper
164 100
129 96.7 76.3 141.7
131 96.3 69.1 128.3
166 124.2 87.8 163.2

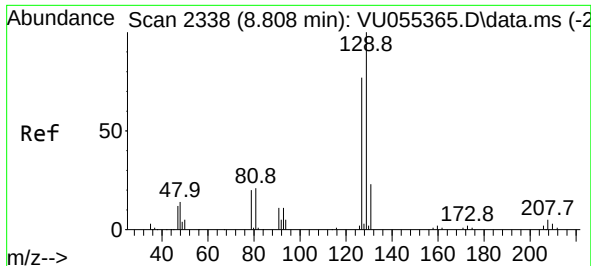


#48
2-Hexanone
Concen: 3.014 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. -0.007 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion: 43 Resp: 18733
Ion Ratio Lower Upper
43 100
58 51.0 47.8 71.6
57 20.2 15.4 23.2
100 4.3 9.4 14.2#

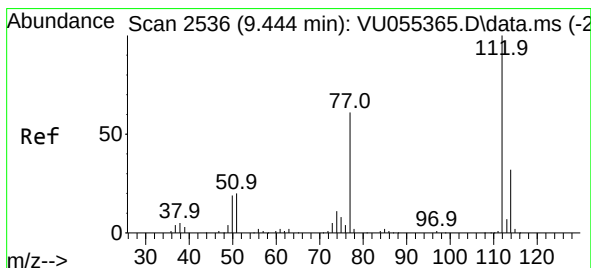
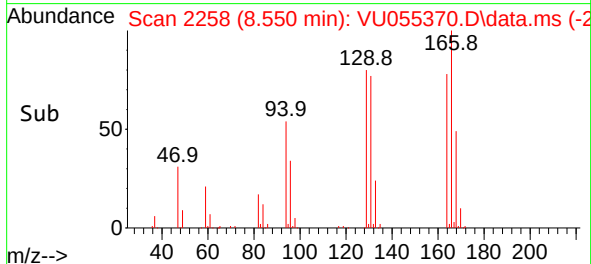
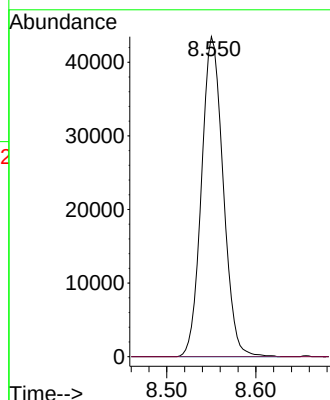
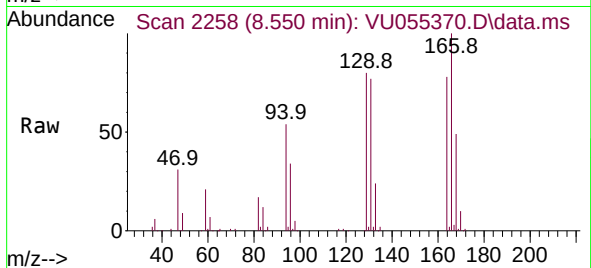




#49
Dibromochloromethane
Concen: 5.961 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.258 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

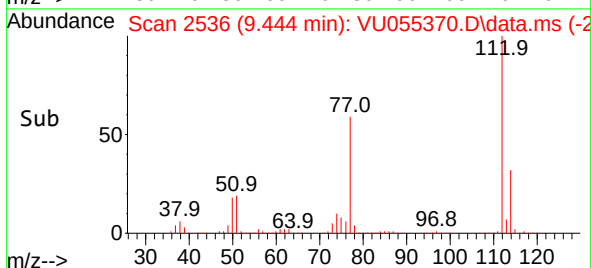
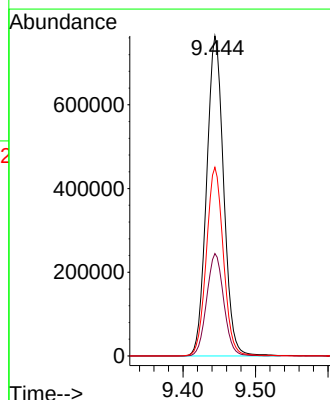
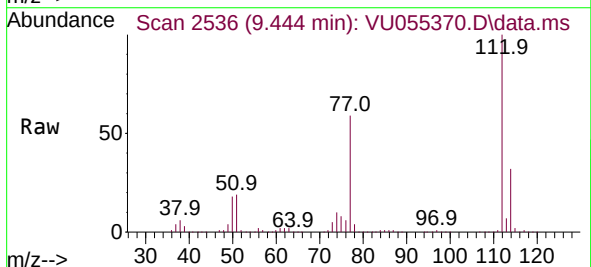
Instrument :
MSVOA_U
ClientSampleId :

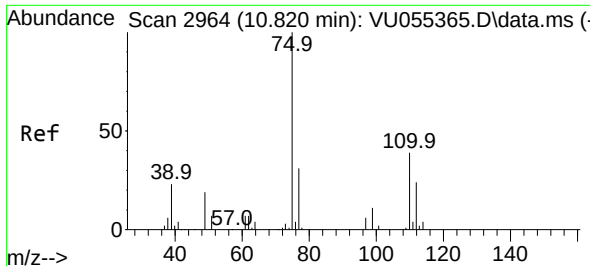
Tgt Ion:129 Resp: 73476
Ion Ratio Lower Upper
129 100
127 0.0 53.4 99.2#



#51
Chlorobenzene
Concen: 26.724 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion:112 Resp: 1250108
Ion Ratio Lower Upper
112 100
114 32.0 21.8 40.6
77 59.0 47.4 71.0

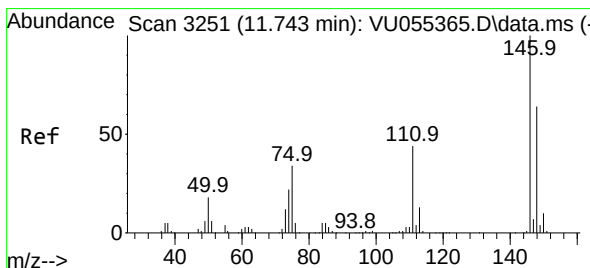
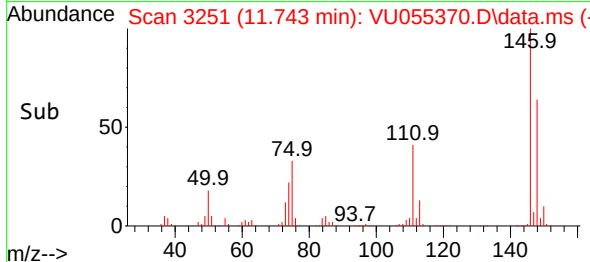
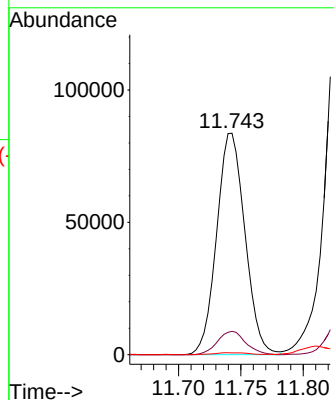
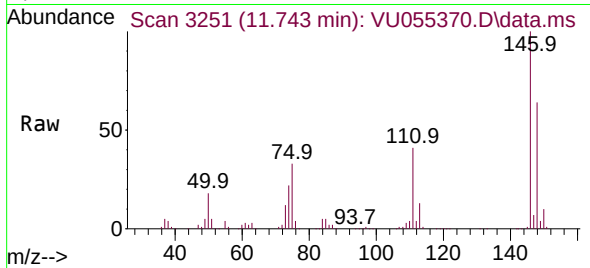




#61
1,2,3-Trichloropropane
Concen: 13.203 ug/L
RT: 11.743 min Scan# 31
Delta R.T. 0.922 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

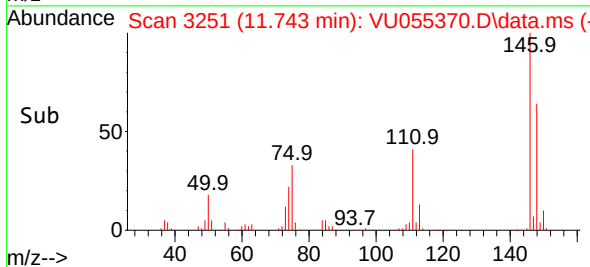
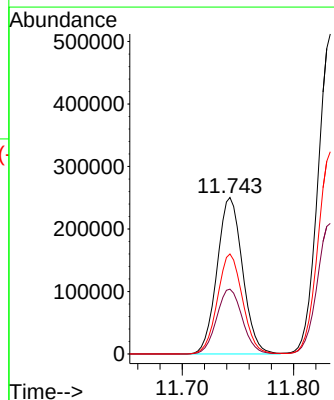
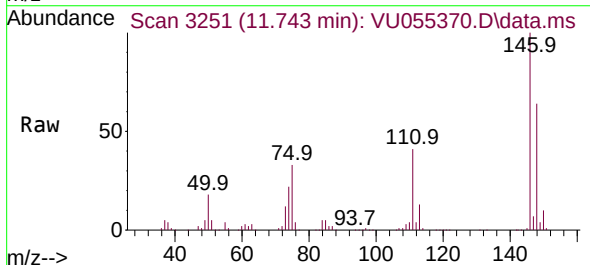
Instrument :
MSVOA_U
ClientSampleId :

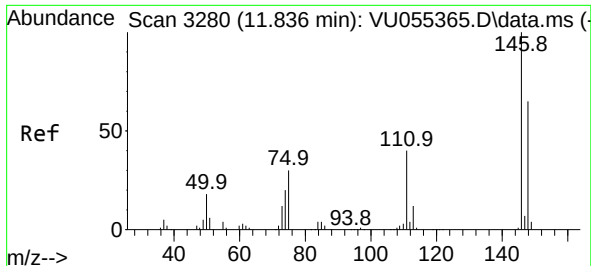
Tgt Ion: 75 Resp: 132127
Ion Ratio Lower Upper
75 100
110 10.5 31.4 47.2#
77 0.0 26.0 39.0#



#64
1,3-Dichlorobenzene
Concen: 11.447 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion:146 Resp: 397904
Ion Ratio Lower Upper
146 100
111 41.4 30.4 56.4
148 63.8 44.9 83.5

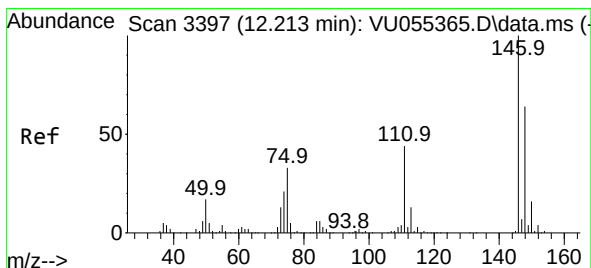
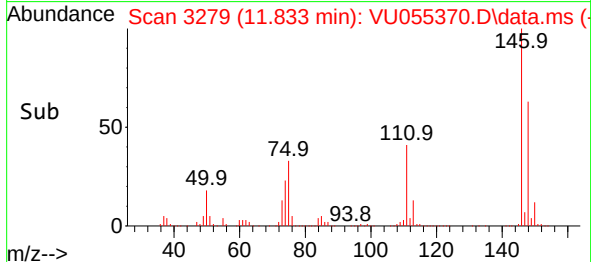
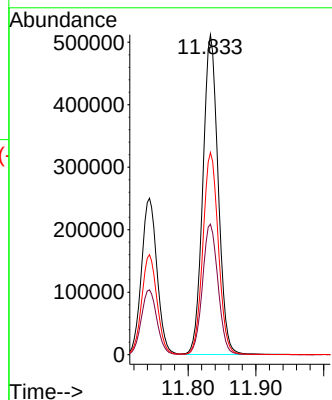
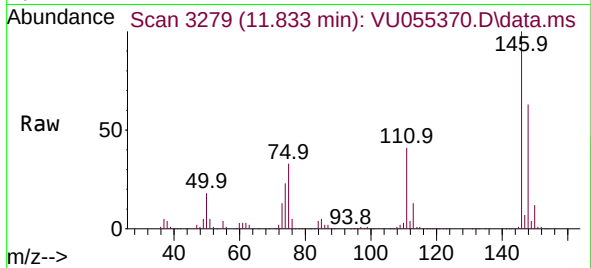




#65
1,4-Dichlorobenzene
Concen: 23.599 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

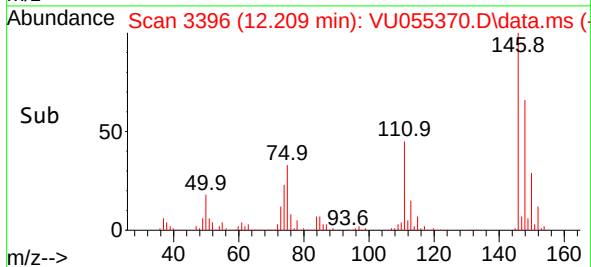
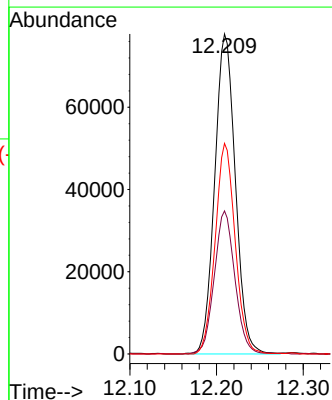
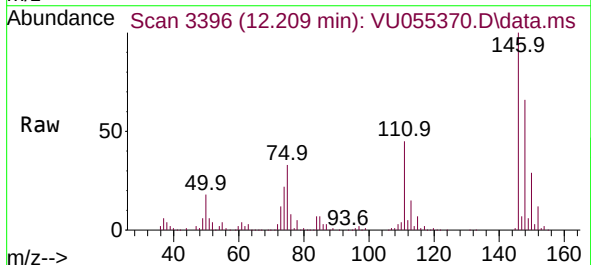
Instrument :
MSVOA_U
ClientSampleId :

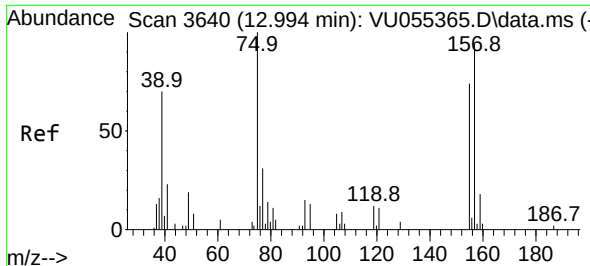
Tgt Ion:146 Resp: 801703
Ion Ratio Lower Upper
146 100
111 40.8 28.7 53.3
148 63.2 43.5 80.9



#67
1,2-Dichlorobenzene
Concen: 4.143 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

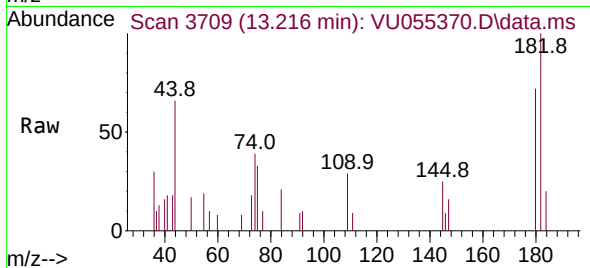
Tgt Ion:146 Resp: 129110
Ion Ratio Lower Upper
146 100
111 44.7 35.4 53.0
148 65.8 51.4 77.2



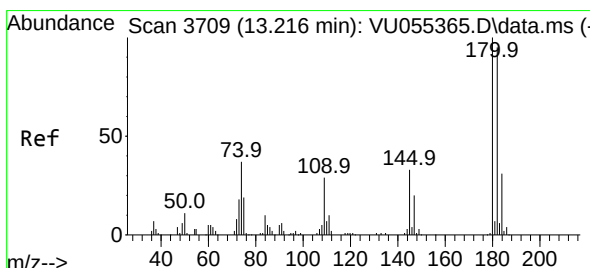
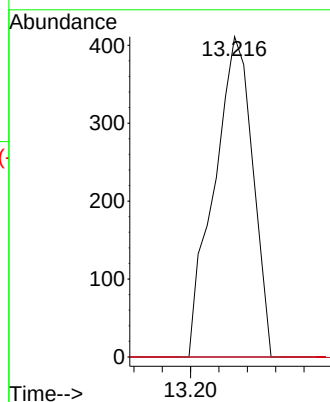
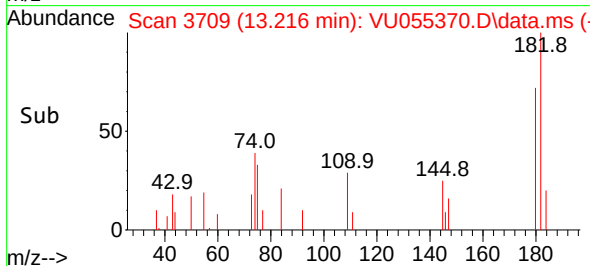


#68
1,2-Dibromo-3-chloropropane
Concen: 0.227 ug/L
RT: 13.216 min Scan# 31
Delta R.T. 0.222 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

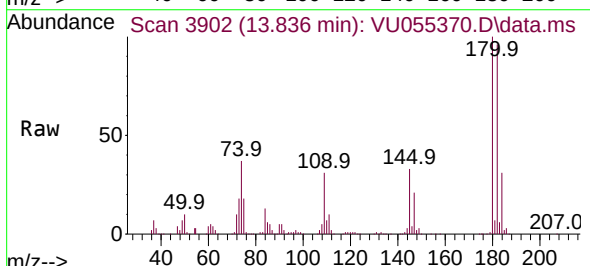
Instrument :
MSVOA_U
ClientSampleId :



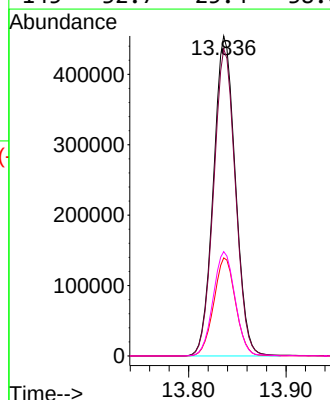
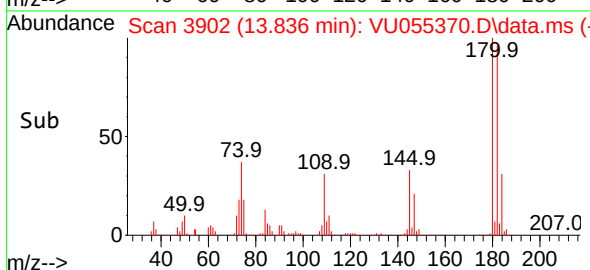
Tgt Ion: 75 Resp: 389
Ion Ratio Lower Upper
75 100
155 0.0 53.7 80.5#
157 0.0 72.4 108.6#

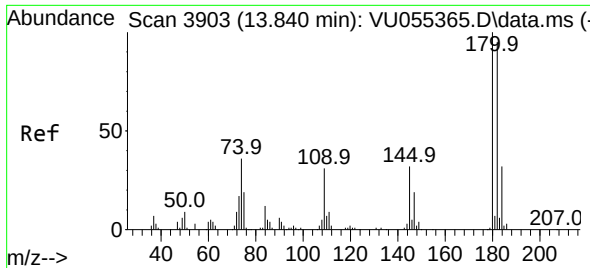


#69
1,3,5-Trichlorobenzene
Concen: 30.057 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.620 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion: 180 Resp: 711748
Ion Ratio Lower Upper
180 100
182 95.3 77.4 116.2
184 30.5 24.5 36.7
145 32.7 25.4 38.0

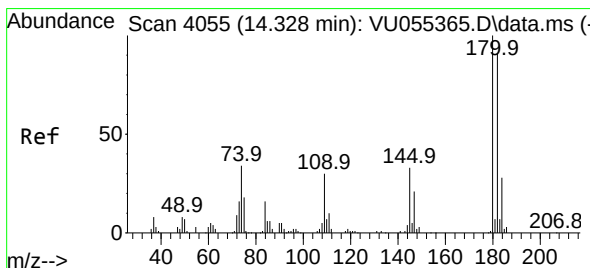
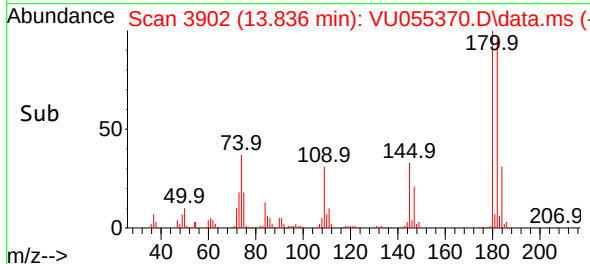
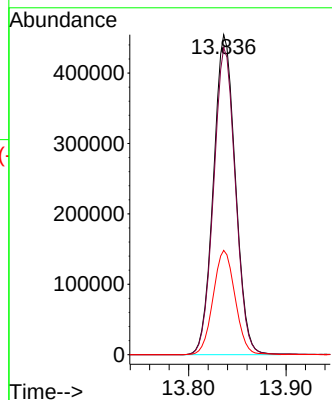
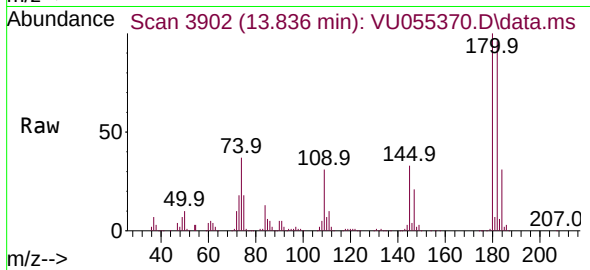




#70
1,2,4-trichlorobenzene
Concen: 39.164 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 711748
Ion Ratio Lower Upper
180 100
182 95.3 76.3 114.5
145 32.7 25.8 38.8



#72
1,2,3-Trichlorobenzene
Concen: 8.802 ug/L
RT: 14.325 min Scan# 4054
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion:180 Resp: 138483
Ion Ratio Lower Upper
180 100
182 94.2 74.6 112.0
145 34.4 27.3 40.9

