

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U061623\
 Data File : U054561.D
 Acq On : 16 Jun 2023 10:07
 Operator : MD/SY
 Sample : 03284-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCHB8

Quant Time: Jun 17 06:11:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jun 17 06:10:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	262811	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	249746	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	126256	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	60410	3.612	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.914	69	77415	4.944	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.800%
11) 1,1-Dichloroethene-d2	2.563	65	29445	3.942	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.800%
20) 2-Butanone-d5	4.628	46	248601	52.865	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.740%
24) Chloroform-d	5.059	84	177966	5.090	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.800%
26) 1,2-Dichloroethane-d4	5.698	65	89231	5.236	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.800%
32) Benzene-d6	5.724	84	346615	4.993	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.800%
36) 1,2-Dichloropropane-d6	6.689	67	117245	5.057	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.200%
41) Toluene-d8	7.894	98	274496	4.455	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.200%
43) trans-1,3-Dichloroprop...	8.177	79	36957	4.584	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.600%
46) 2-Hexanone-d5	8.631	63	172933	51.125	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.260%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	87477	5.060	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	111935	5.256	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.519	50	113696	4.030	ug/L	100
6) Bromomethane	1.856	94	54541	3.426	ug/L	95
9) Trichlorofluoromethane	2.136	101	297080	8.346	ug/L	99
12) 1,1-Dichloroethene	2.580	96	74187	3.892	ug/L	93
13) Acetone	2.637	43	320018	72.176	ug/L	98
14) Carbon disulfide	2.792	76	368194	6.514	ug/L	99
16) Methylene chloride	3.046	84	56296	2.100	ug/L	98
17) Methyl tert-butyl Ether	3.361	73	417864	8.881	ug/L	99
19) 1,1-Dichloroethane	3.866	63	387075	9.504	ug/L	99
21) 2-Butanone	4.702	43	700630	121.757	ug/L	99
27) 1,2-Dichloroethane	5.788	62	180999	7.690	ug/L	99
29) 1,1,1-Trichloroethane	5.313	97	315983	9.330	ug/L	98
30) Cyclohexane	5.387	56	429545	11.645	ug/L	98
34) Trichloroethene	6.538	95	127406	5.368	ug/L	99
35) Methylcyclohexane	6.759	83	239294	6.670	ug/L	99
37) 1,2-Dichloropropane	6.788	63	55345	2.280	ug/L	99
42) Toluene	7.965	91	859228	9.295	ug/L	99
47) Tetrachloroethene	8.550	164	164334	9.045	ug/L	98
48) 2-Hexanone	8.679	43	540013	55.960	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU061623\
 Data File : VU054561.D
 Acq On : 16 Jun 2023 10:07
 Operator : MD/SY
 Sample : 03284-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCHB8

Quant Time: Jun 17 06:11:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jun 17 06:10:25 2023
 Response via : Initial Calibration

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

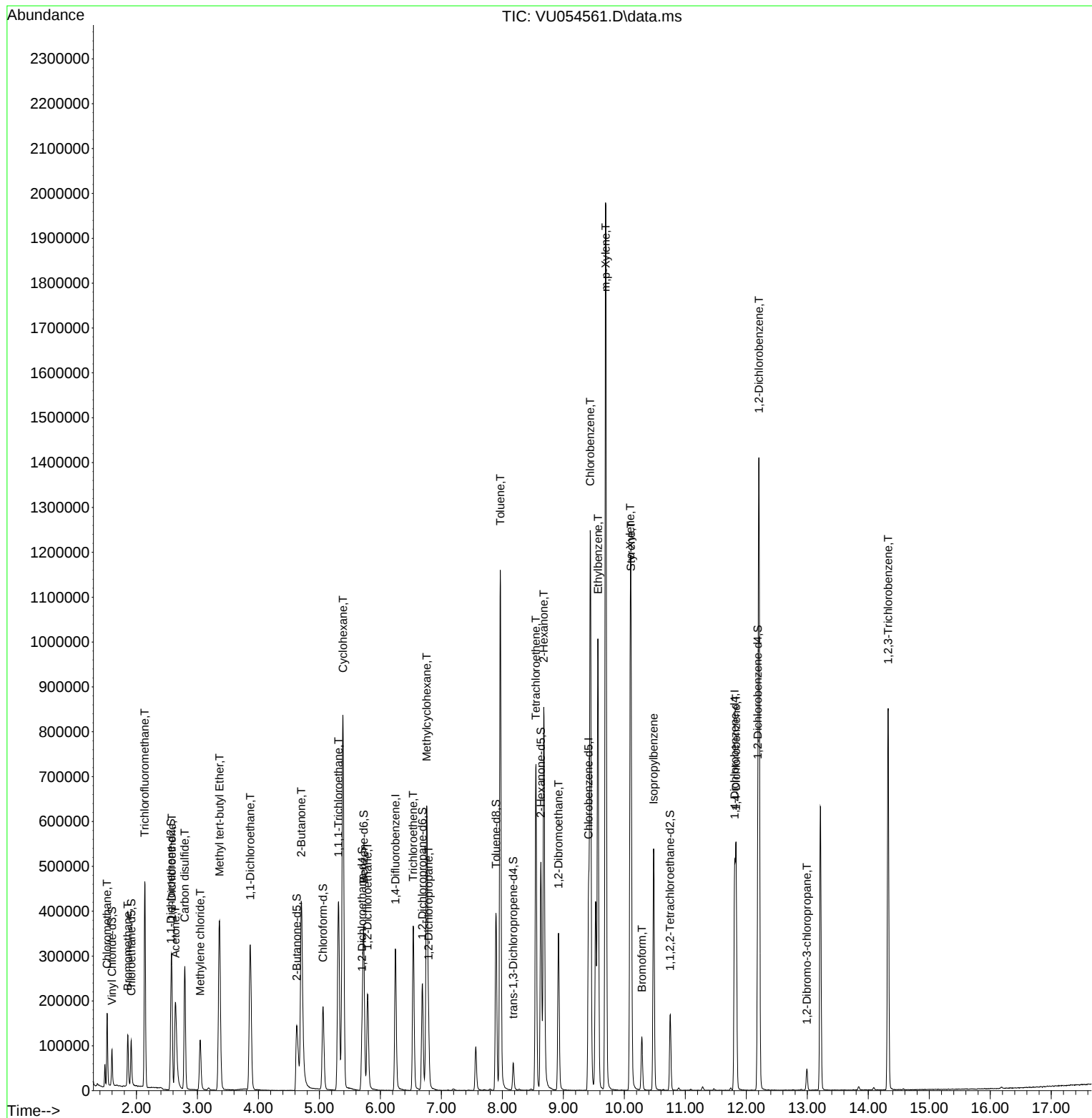
50) 1,2-Dibromoethane	8.920	107	237581	16.761	ug/L	100
51) Chlorobenzene	9.441	112	666335	11.565	ug/L	99
52) Ethylbenzene	9.566	91	700528	6.939	ug/L	99
53) m,p-Xylene	9.695	106	545529	14.710	ug/L	99
54) o-Xylene	10.097	106	211189	5.889	ug/L	99
55) Styrene	10.110	104	357599	5.941	ug/L	99
59) Bromoform	10.287	173	54645	6.029	ug/L	98
60) Isopropylbenzene	10.480	105	349828	3.788	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	205086	4.733	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	537100	13.527	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.991	75	13023	4.645	ug/L #	87
72) 1,2,3-Trichlorobenzene	14.325	180	264529	11.431	ug/L	98

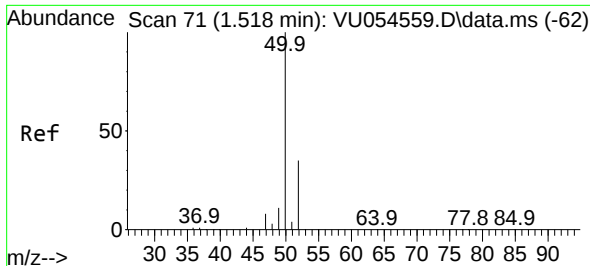
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU061623\
Data File : VU054561.D
Acq On : 16 Jun 2023 10:07
Operator : MD/SY
Sample : 03284-03
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DCHB8

Quant Time: Jun 17 06:11:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat Jun 17 06:10:25 2023
Response via : Initial Calibration

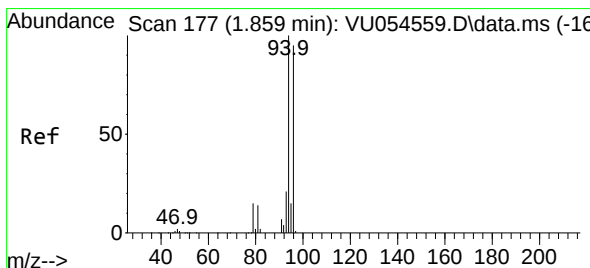
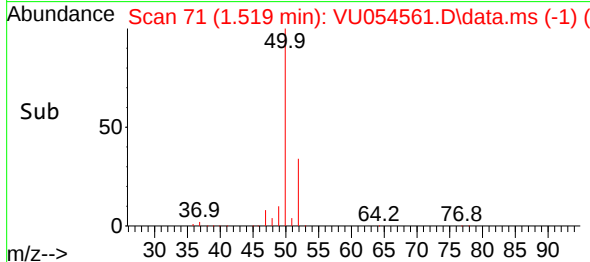
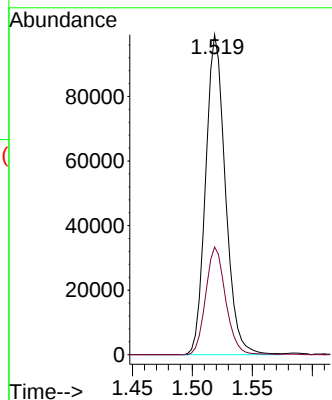
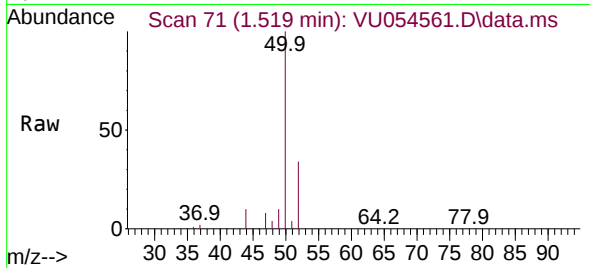




#3
Chloromethane
Concen: 4.030 ug/L
RT: 1.519 min Scan# 71
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

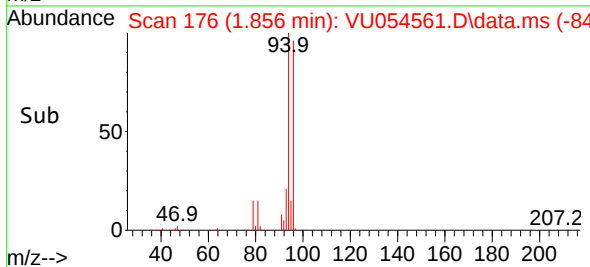
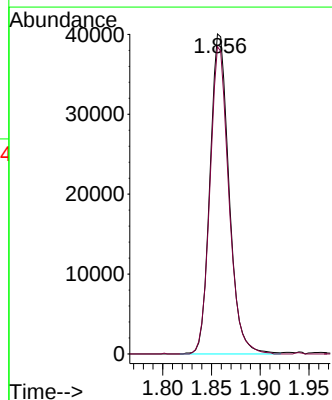
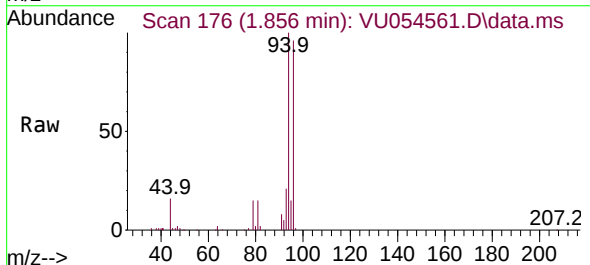
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

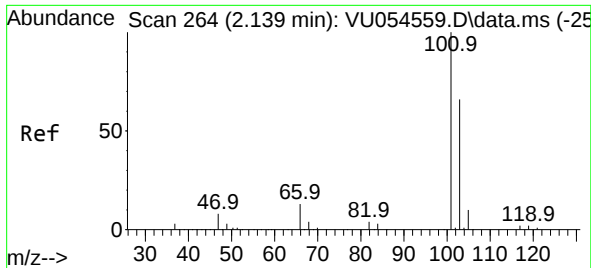
Tgt Ion: 50 Resp: 113696
Ion Ratio Lower Upper
50 100
52 33.7 23.4 43.4



#6
Bromomethane
Concen: 3.426 ug/L
RT: 1.856 min Scan# 176
Delta R.T. -0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion: 94 Resp: 54541
Ion Ratio Lower Upper
94 100
96 96.0 63.6 118.2

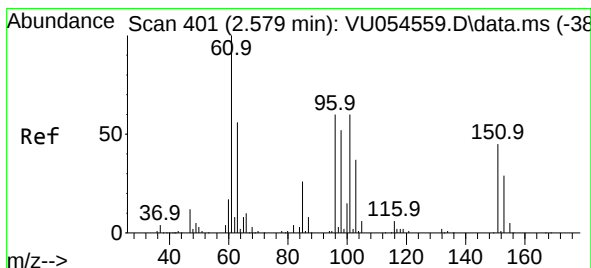
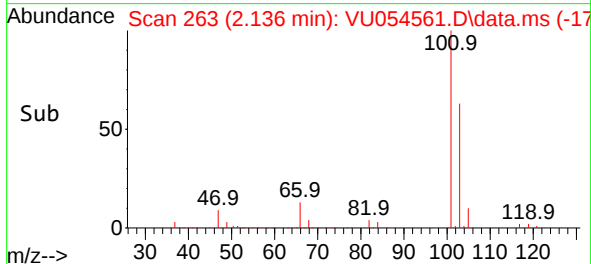
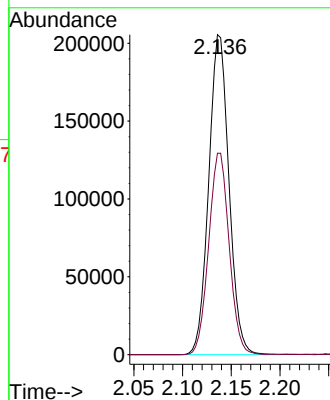
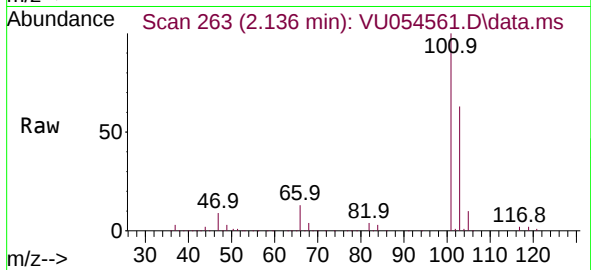




#9
 Trichlorofluoromethane
 Concen: 8.346 ug/L
 RT: 2.136 min Scan# 2
 Delta R.T. -0.003 min
 Lab File: VU054561.D
 Acq: 16 Jun 2023 10:07

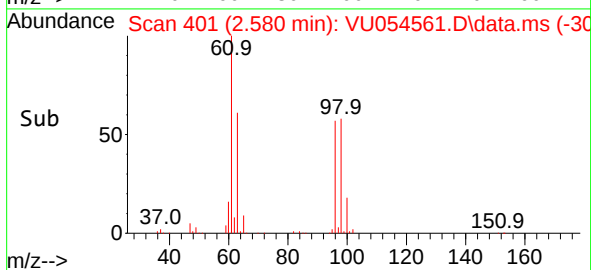
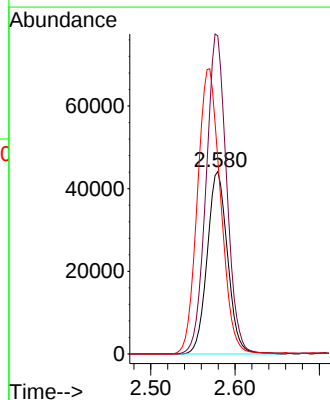
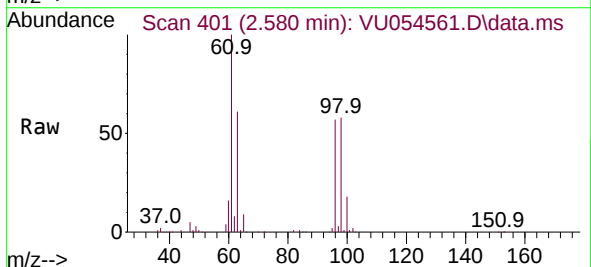
Instrument :
 MSVOA_U
 ClientSampleId :
 DCHB8

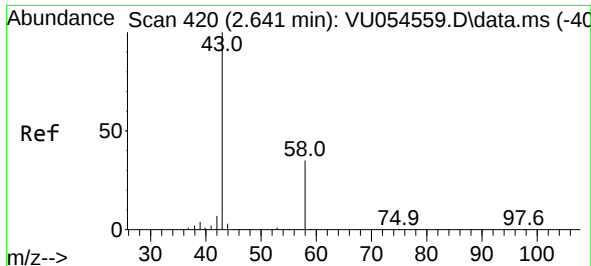
Tgt Ion:101 Resp: 297080
 Ion Ratio Lower Upper
 101 100
 103 63.8 50.6 75.8



#12
 1,1-Dichloroethene
 Concen: 3.892 ug/L
 RT: 2.580 min Scan# 401
 Delta R.T. 0.000 min
 Lab File: VU054561.D
 Acq: 16 Jun 2023 10:07

Tgt Ion: 96 Resp: 74187
 Ion Ratio Lower Upper
 96 100
 61 174.4 119.9 222.7
 63 106.7 64.3 119.3





#13

Acetone

Concen: 72.176 ug/L

RT: 2.637 min Scan# 419

Delta R.T. -0.003 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

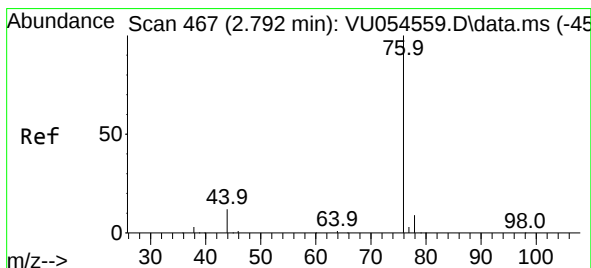
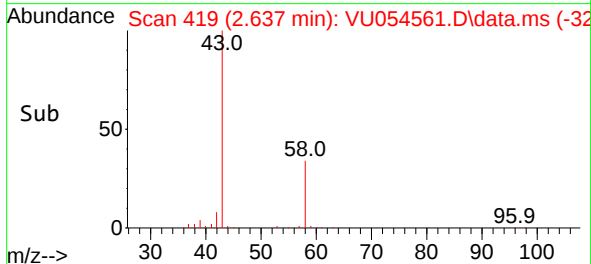
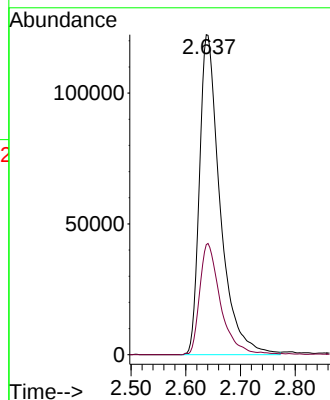
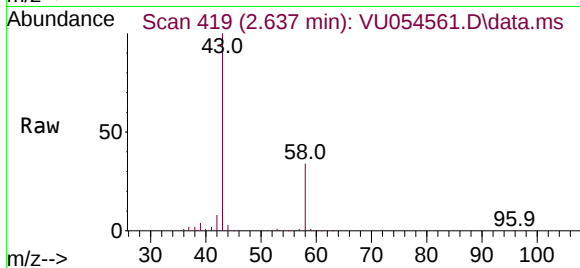
DCHB8

Tgt Ion: 43 Resp: 320018

Ion Ratio Lower Upper

43 100

58 34.7 0.0 67.2



#14

Carbon disulfide

Concen: 6.514 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.000 min

Lab File: VU054561.D

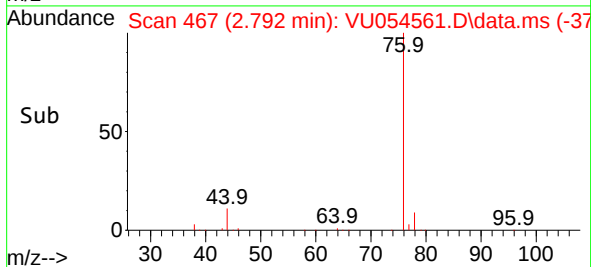
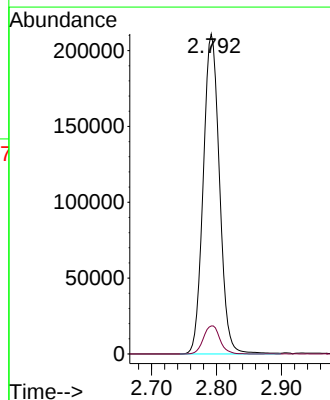
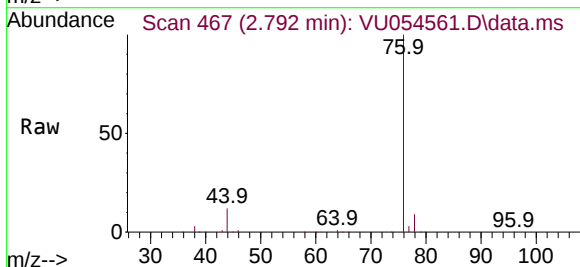
Acq: 16 Jun 2023 10:07

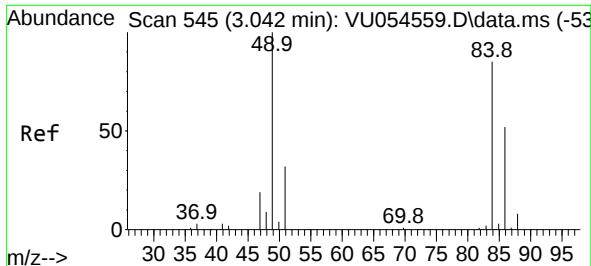
Tgt Ion: 76 Resp: 368194

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0

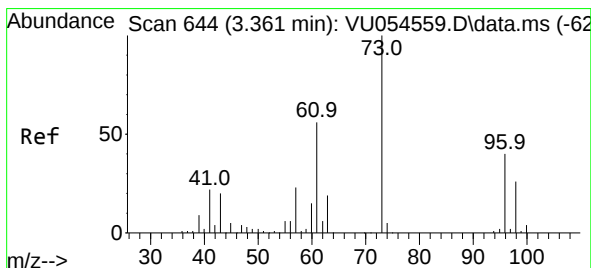
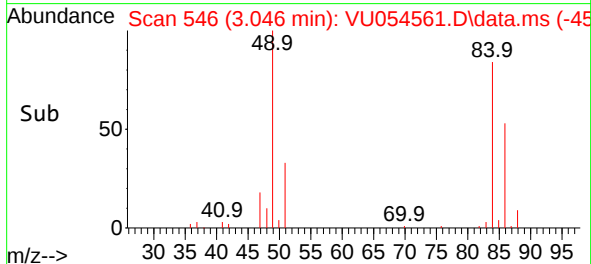
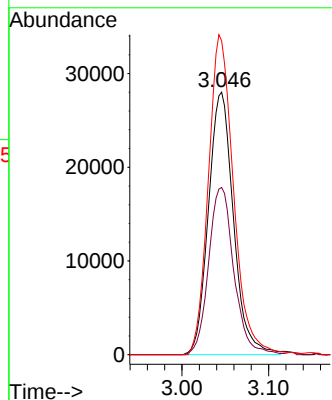
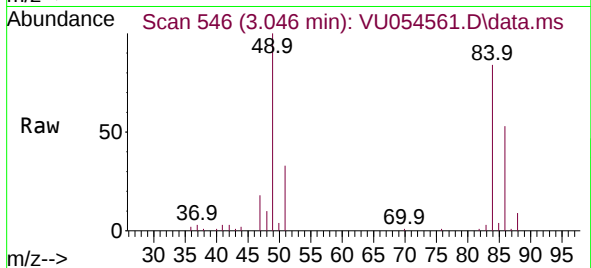




#16
Methylene chloride
Concen: 2.100 ug/L
RT: 3.046 min Scan# 545
Delta R.T. 0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

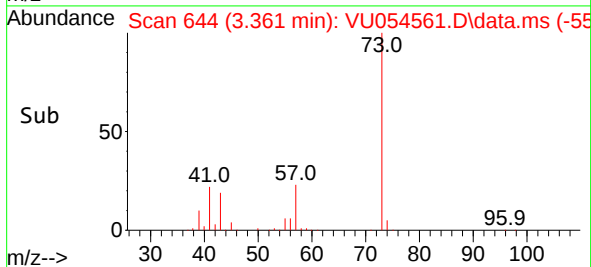
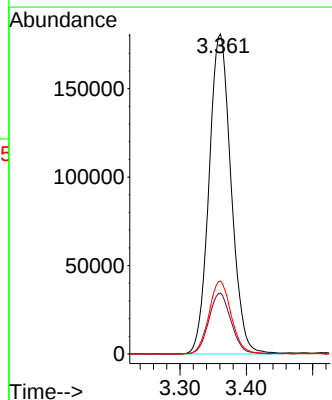
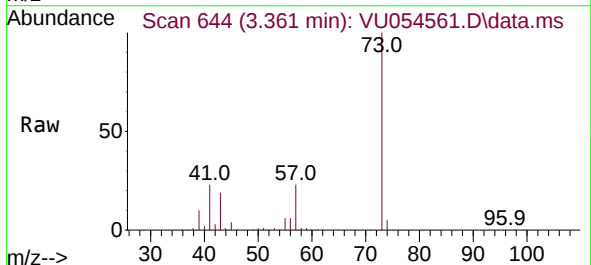
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

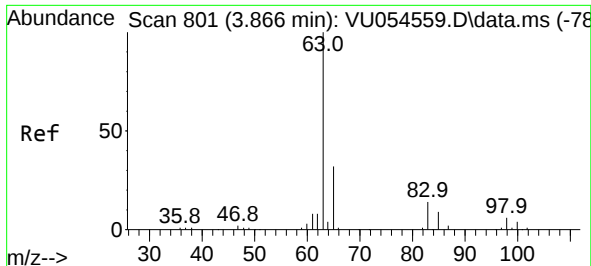
Tgt Ion: 84 Resp: 56296
Ion Ratio Lower Upper
84 100
86 63.7 43.9 81.5
49 119.5 86.1 159.9



#17
Methyl tert-butyl Ether
Concen: 8.881 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion: 73 Resp: 417864
Ion Ratio Lower Upper
73 100
43 19.3 15.7 23.5
57 23.1 18.6 28.0





#19

1,1-Dichloroethane

Concen: 9.504 ug/L

RT: 3.866 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

DCHB8

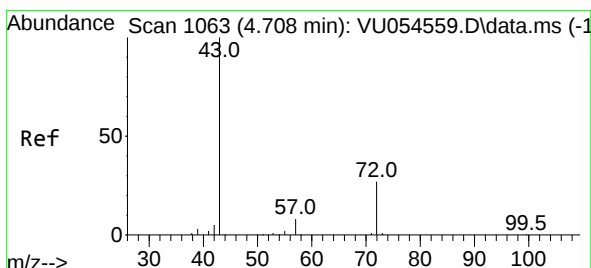
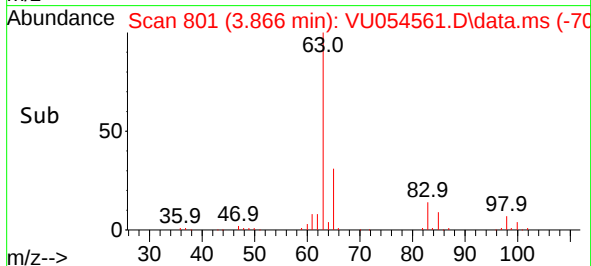
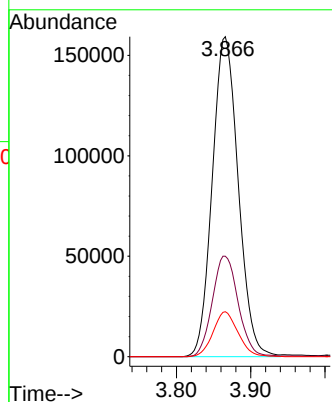
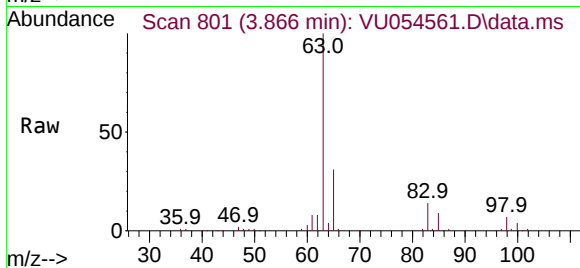
Tgt Ion: 63 Resp: 387075

Ion Ratio Lower Upper

63 100

65 31.4 22.2 41.2

83 14.0 9.0 16.6



#21

2-Butanone

Concen: 121.757 ug/L

RT: 4.702 min Scan# 1061

Delta R.T. -0.006 min

Lab File: VU054561.D

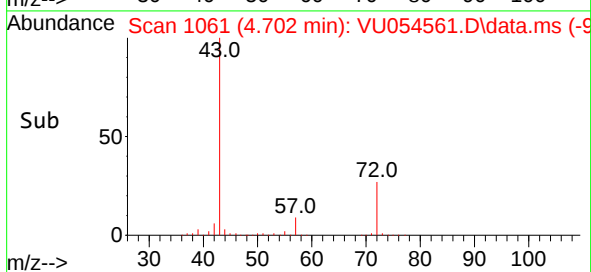
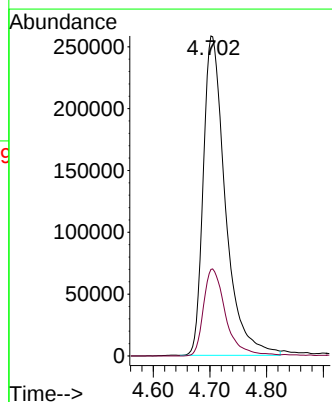
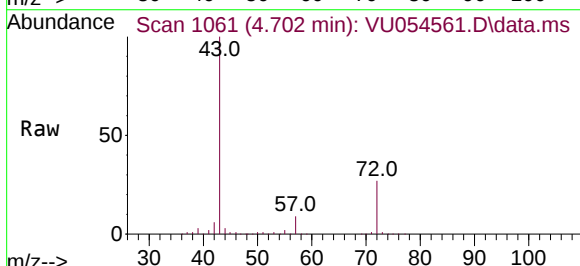
Acq: 16 Jun 2023 10:07

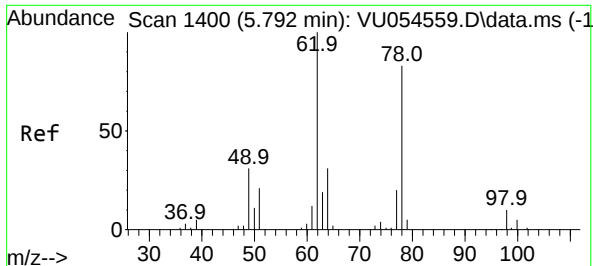
Tgt Ion: 43 Resp: 700630

Ion Ratio Lower Upper

43 100

72 27.3 13.4 40.1

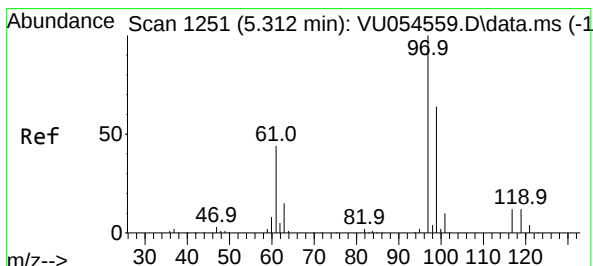
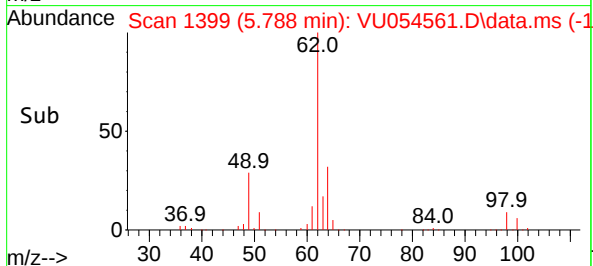
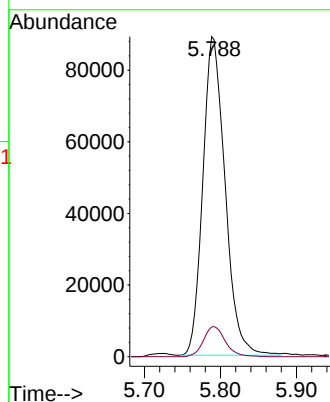
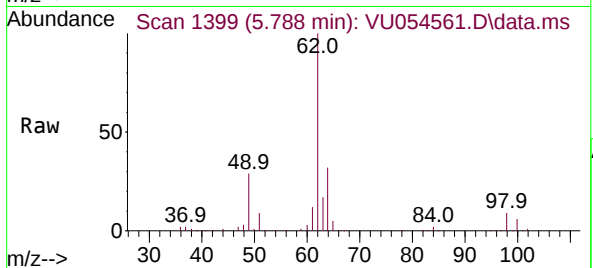




#27
1,2-Dichloroethane
Concen: 7.690 ug/L
RT: 5.788 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

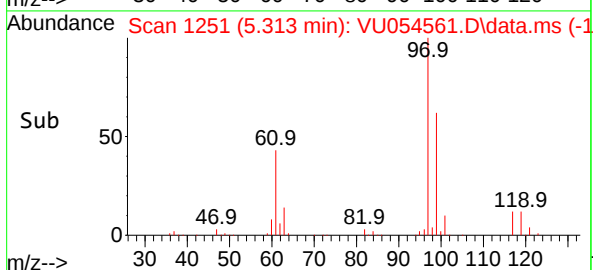
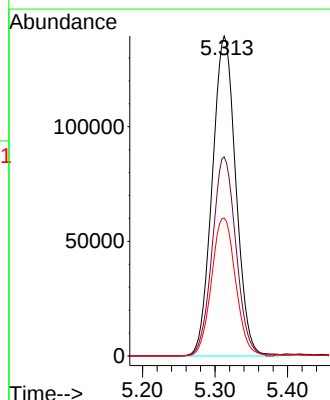
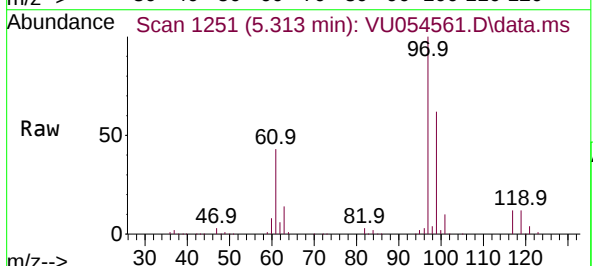
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

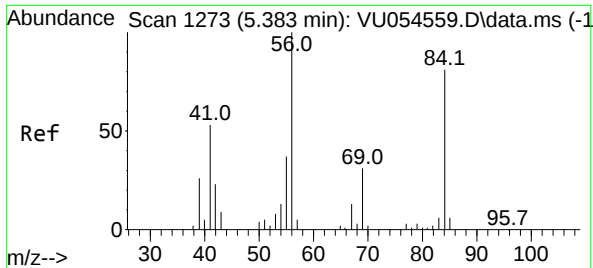
Tgt Ion: 62 Resp: 180999
Ion Ratio Lower Upper
62 100
98 9.3 7.8 11.6



#29
1,1,1-Trichloroethane
Concen: 9.330 ug/L
RT: 5.313 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion: 97 Resp: 315983
Ion Ratio Lower Upper
97 100
99 62.4 50.8 76.2
61 43.9 36.1 54.1

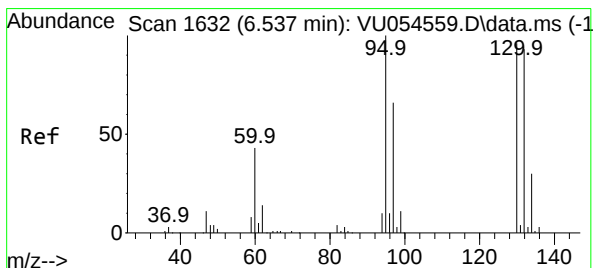
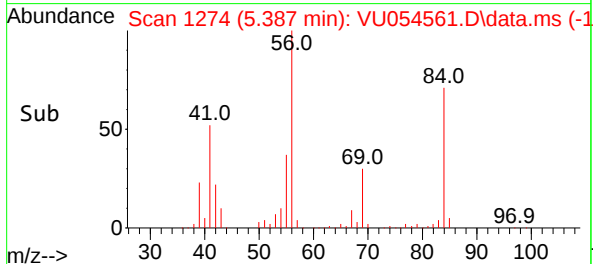
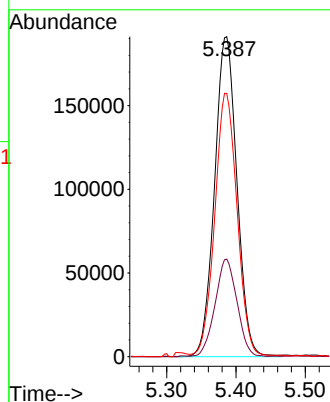
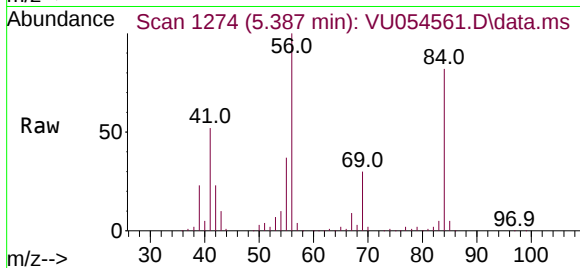




#30
Cyclohexane
Concen: 11.645 ug/L
RT: 5.387 min Scan# 1273
Delta R.T. 0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

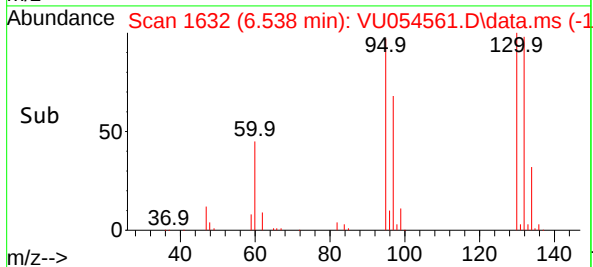
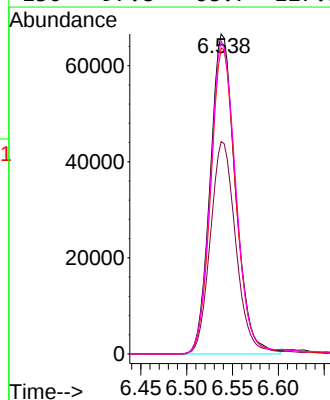
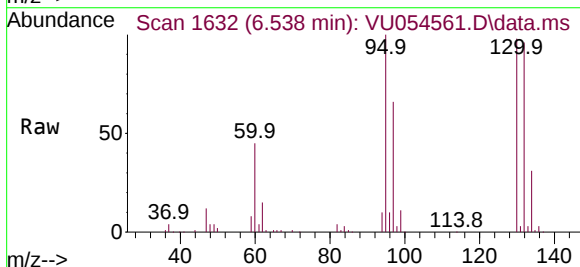
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

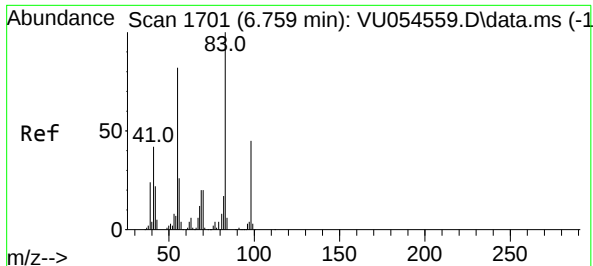
Tgt Ion:	56	Resp:	429545
Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.9	35.9
84	81.2	63.0	94.6



#34
Trichloroethene
Concen: 5.368 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion:	95	Resp:	127406
Ion	Ratio	Lower	Upper
95	100		
97	66.3	46.8	87.0
132	95.6	68.4	127.0
130	97.8	68.7	127.5





#35

Methylcyclohexane

Concen: 6.670 ug/L

RT: 6.759 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

DCHB8

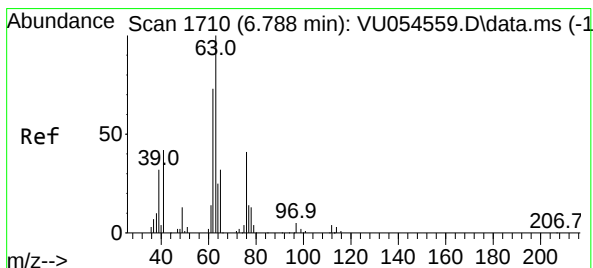
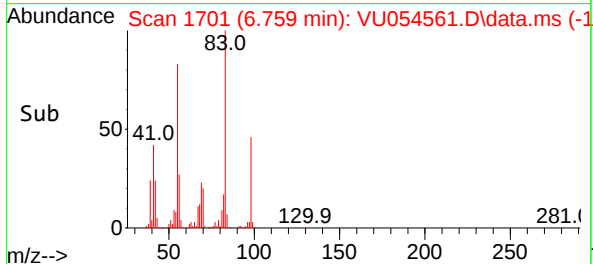
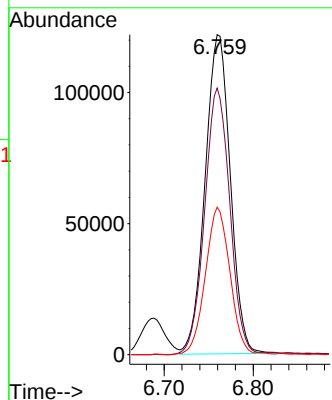
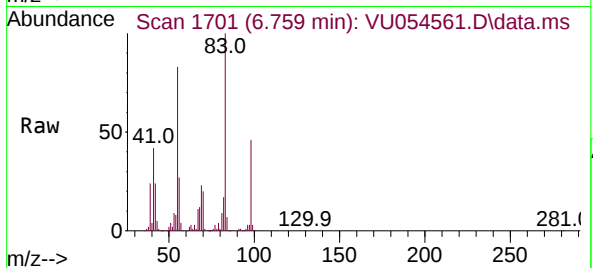
Tgt Ion: 83 Resp: 239294

Ion Ratio Lower Upper

83 100

55 83.5 67.1 100.7

98 45.3 35.1 52.7



#37

1,2-Dichloropropane

Concen: 2.280 ug/L

RT: 6.788 min Scan# 1710

Delta R.T. 0.000 min

Lab File: VU054561.D

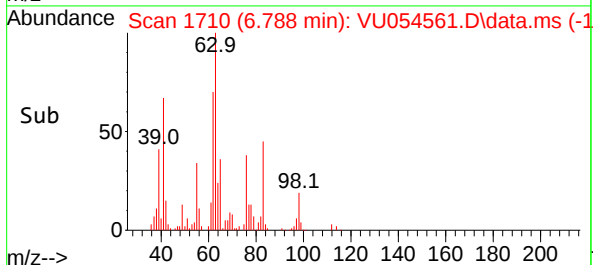
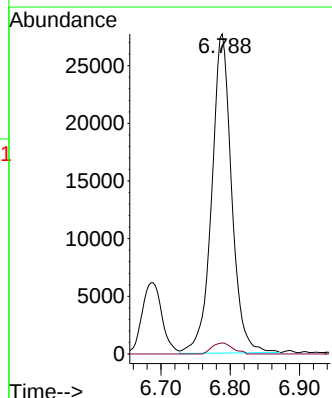
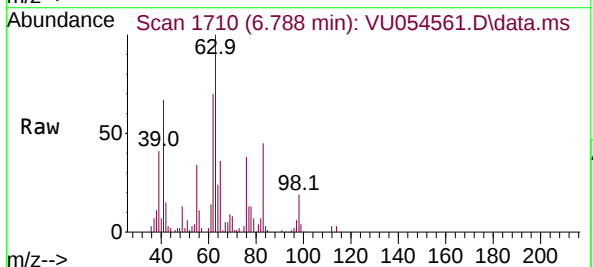
Acq: 16 Jun 2023 10:07

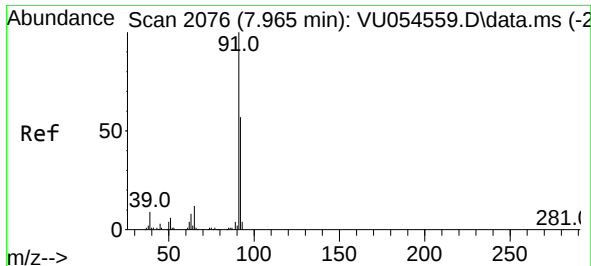
Tgt Ion: 63 Resp: 55345

Ion Ratio Lower Upper

63 100

112 3.6 3.0 4.6





#42

Toluene

Concen: 9.295 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

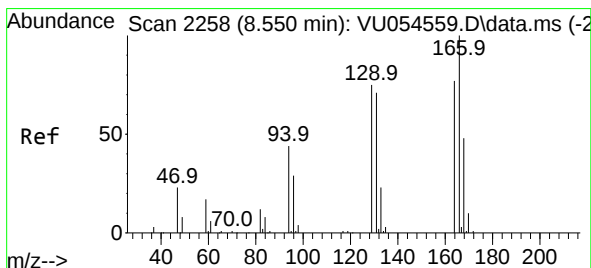
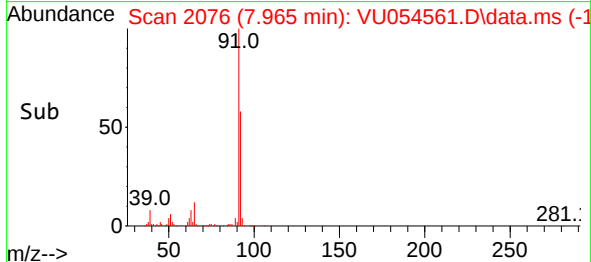
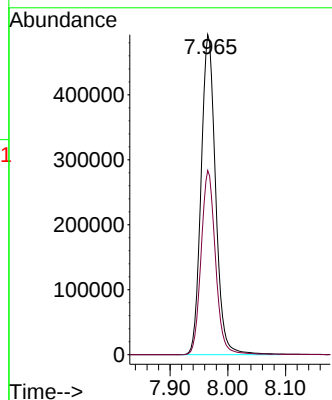
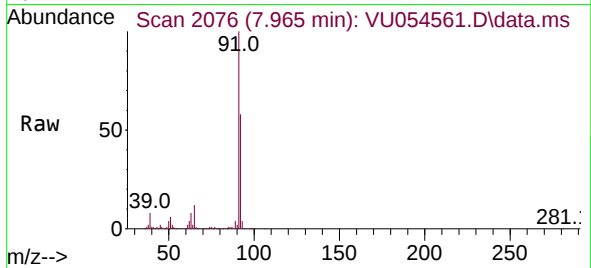
DCHB8

Tgt Ion: 91 Resp: 859228

Ion Ratio Lower Upper

91 100

92 57.5 39.5 73.4



#47

Tetrachloroethene

Concen: 9.045 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Tgt Ion: 164 Resp: 164334

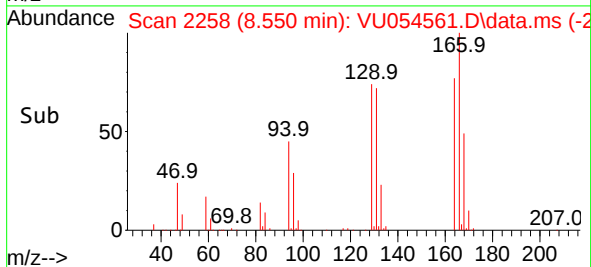
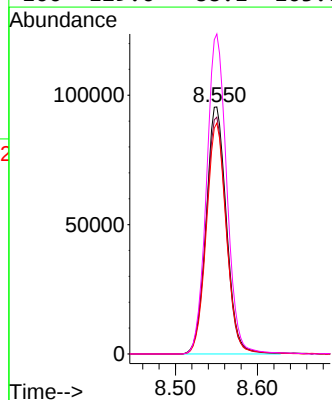
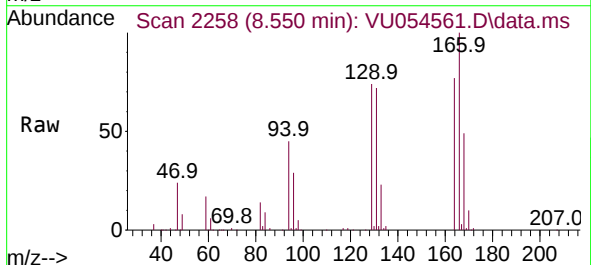
Ion Ratio Lower Upper

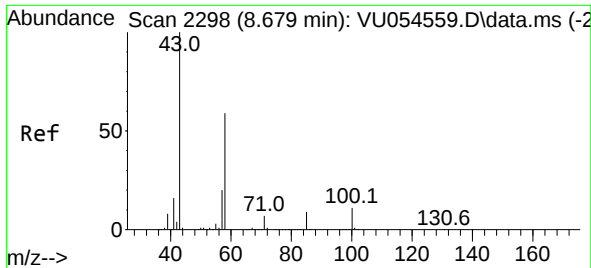
164 100

129 95.9 67.7 125.7

131 93.5 64.6 120.0

166 129.6 88.1 163.7

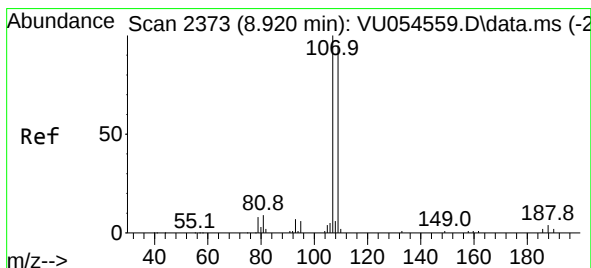
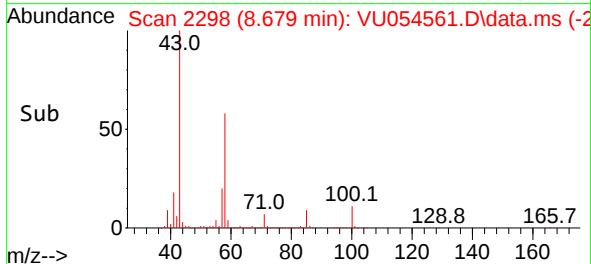
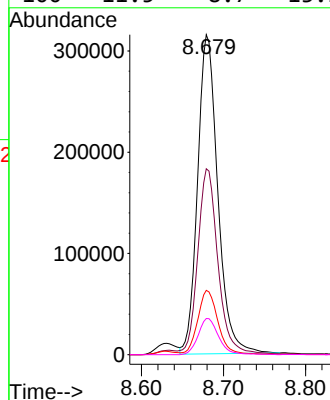
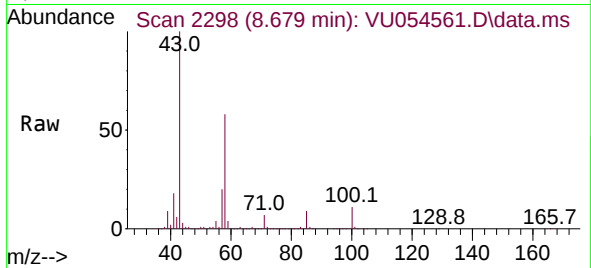




#48
2-Hexanone
Concen: 55.960 ug/L
RT: 8.679 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

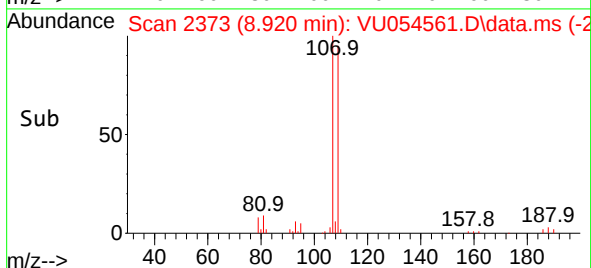
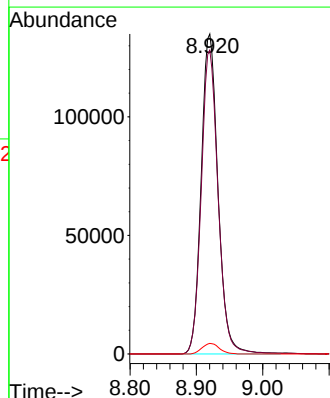
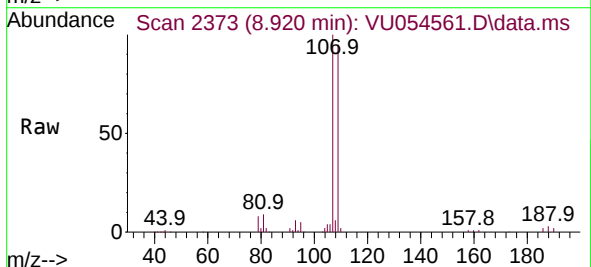
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

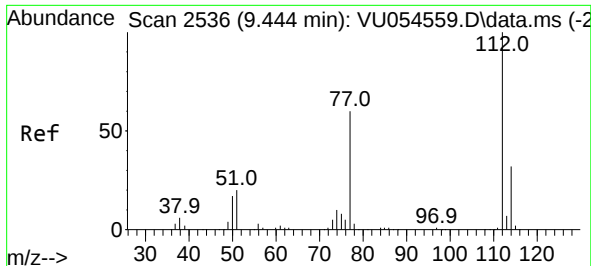
Tgt Ion: 43	Resp: 540013
Ion Ratio	Lower Upper
43 100	
58 58.5	45.2 67.8
57 20.2	15.8 23.6
100 11.5	8.7 13.1



#50
1,2-Dibromoethane
Concen: 16.761 ug/L
RT: 8.920 min Scan# 2373
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion:107	Resp: 237581		
Ion Ratio	Lower	Upper	
107 100			
109 95.0	66.6	123.6	
188 3.3	3.1	4.7	

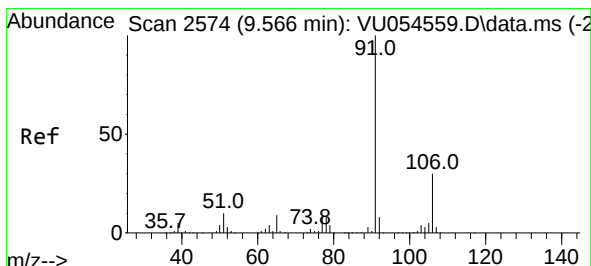
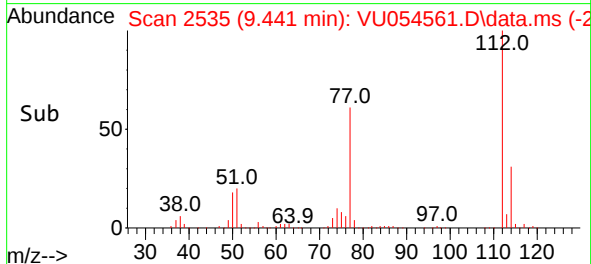
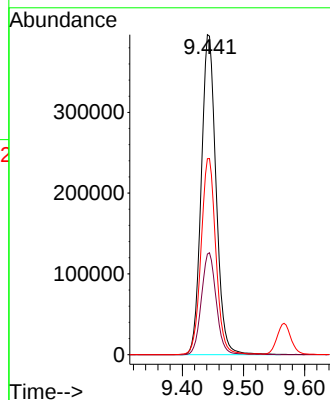
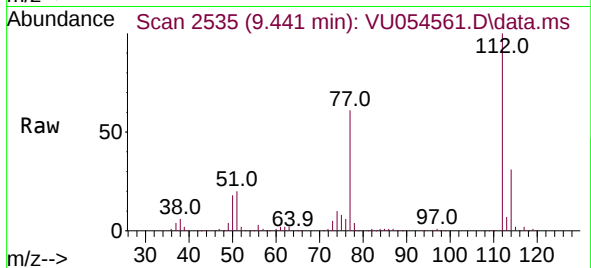




#51
Chlorobenzene
Concen: 11.565 ug/L
RT: 9.441 min Scan# 2536
Delta R.T. -0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

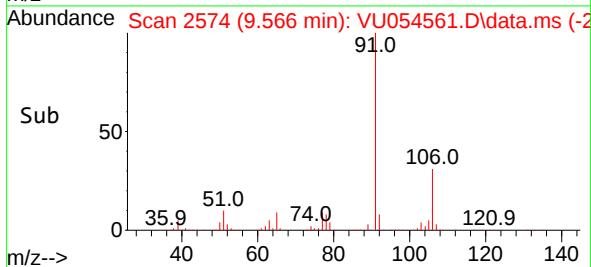
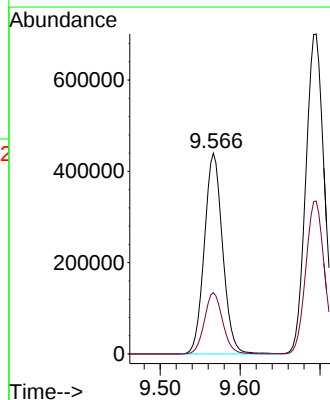
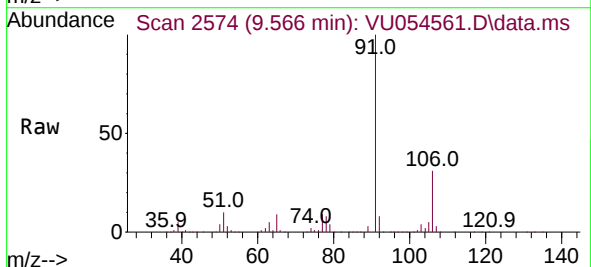
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

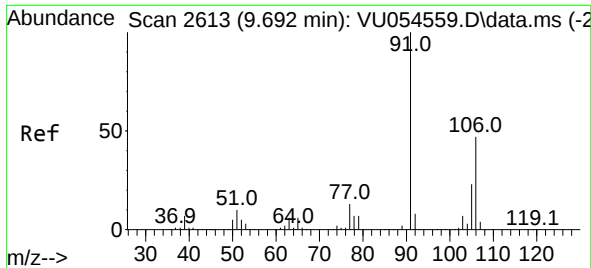
Tgt Ion:112 Resp: 666335
Ion Ratio Lower Upper
112 100
114 31.5 22.7 42.1
77 61.2 49.8 74.8



#52
Ethylbenzene
Concen: 6.939 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion: 91 Resp: 700528
Ion Ratio Lower Upper
91 100
106 30.5 21.1 39.3

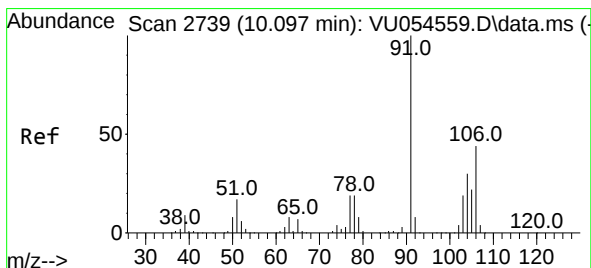
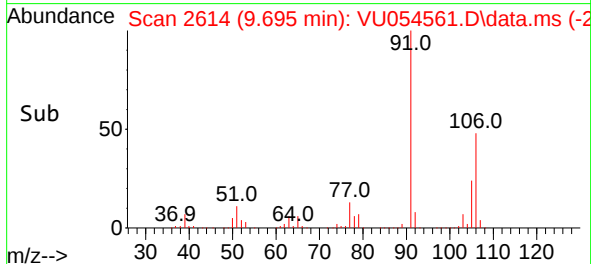
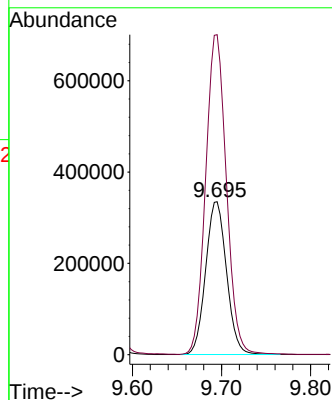
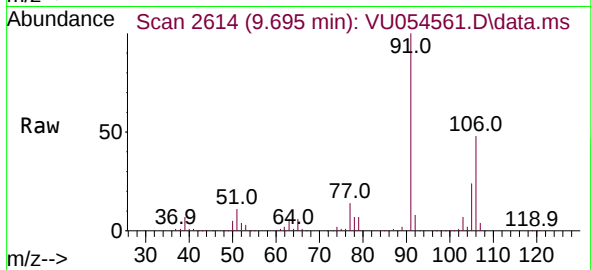




#53
m,p-Xylene
Concen: 14.710 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.003 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

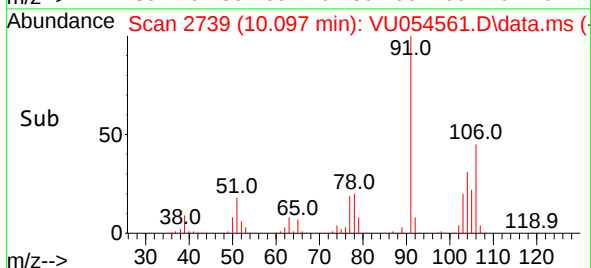
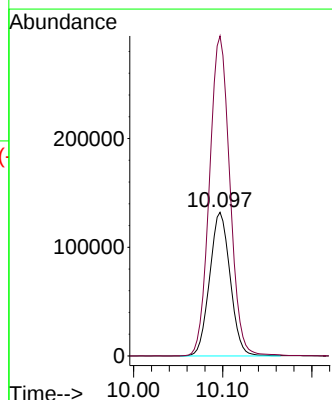
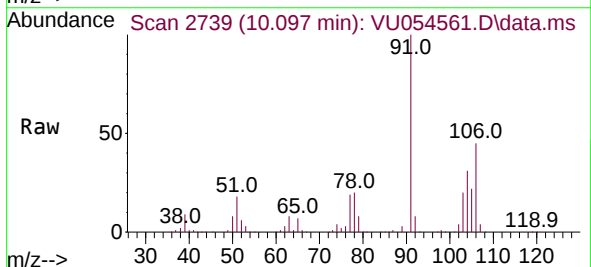
Instrument :
MSVOA_U
ClientSampleId :
DCHB8

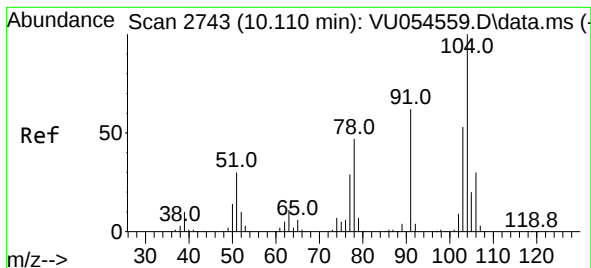
Tgt Ion:106 Resp: 545529
Ion Ratio Lower Upper
106 100
91 209.1 147.0 273.0



#54
o-Xylene
Concen: 5.889 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU054561.D
Acq: 16 Jun 2023 10:07

Tgt Ion:106 Resp: 211189
Ion Ratio Lower Upper
106 100
91 222.6 154.5 286.9





#55

Styrene

Concen: 5.941 ug/L

RT: 10.110 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

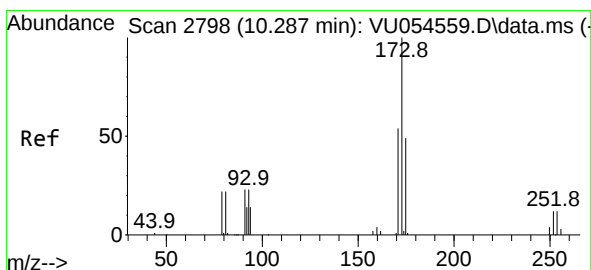
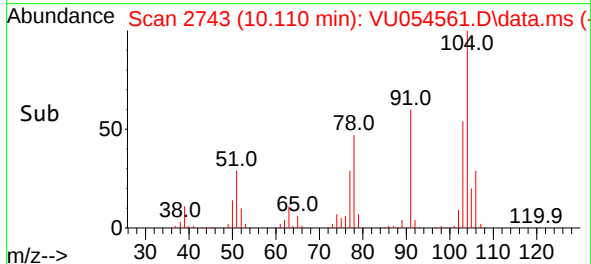
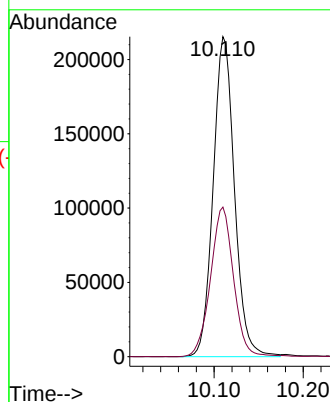
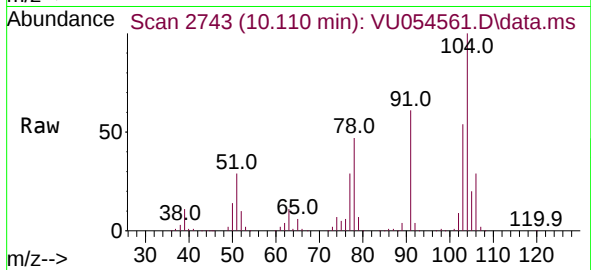
DCHB8

Tgt Ion:104 Resp: 357599

Ion Ratio Lower Upper

104 100

78 46.7 33.0 61.4



#59

Bromoform

Concen: 6.029 ug/L

RT: 10.287 min Scan# 2798

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

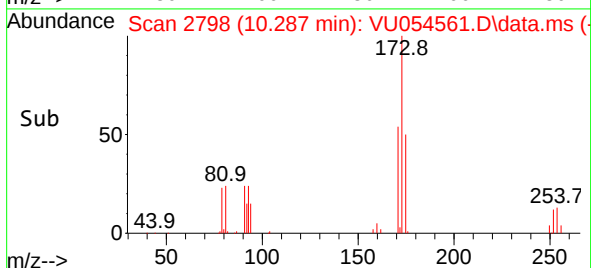
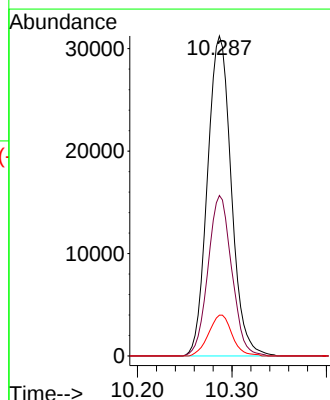
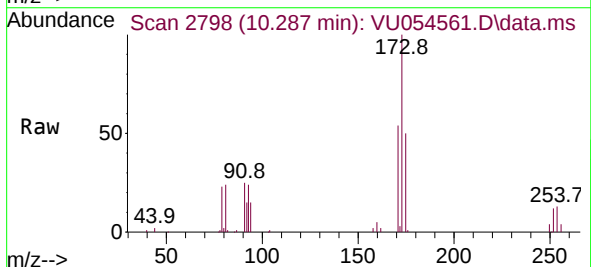
Tgt Ion:173 Resp: 54645

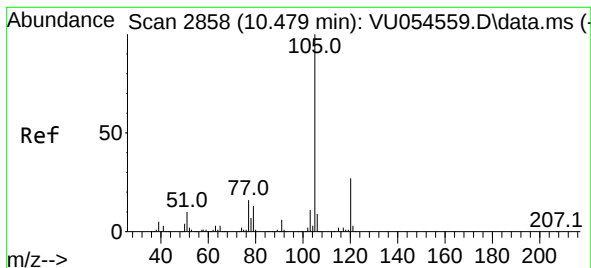
Ion Ratio Lower Upper

173 100

175 49.9 39.4 59.0

254 12.6 8.6 12.8





#60

Isopropylbenzene

Concen: 3.788 ug/L

RT: 10.480 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

DCHB8

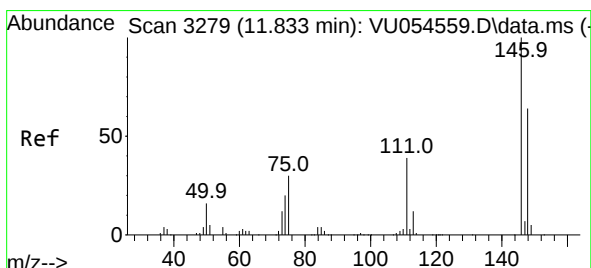
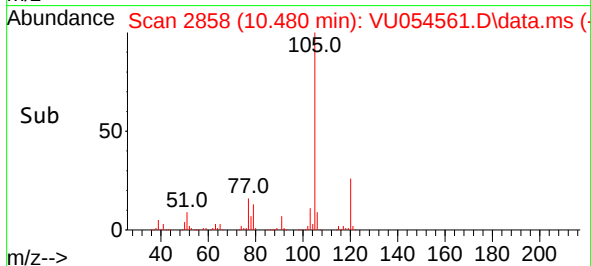
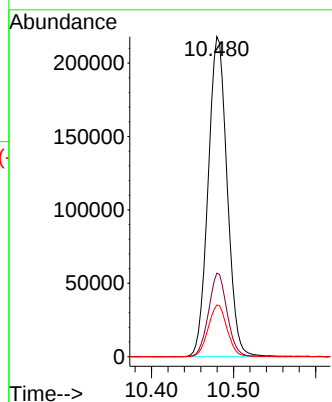
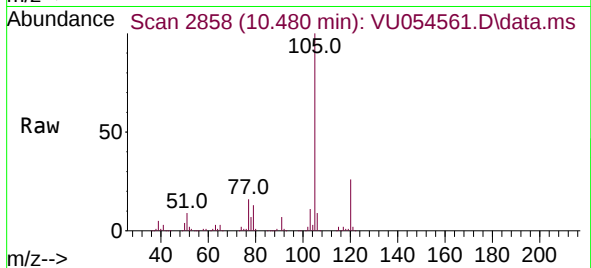
Tgt Ion:105 Resp: 349828

Ion Ratio Lower Upper

105 100

120 25.6 20.9 31.3

77 16.1 13.2 19.8



#65

1,4-Dichlorobenzene

Concen: 4.733 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

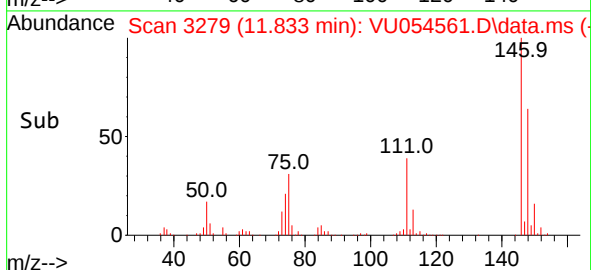
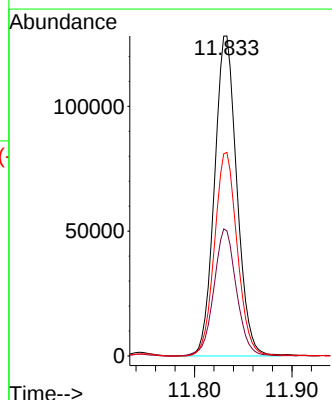
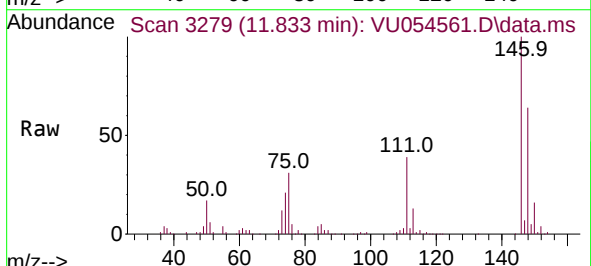
Tgt Ion:146 Resp: 205086

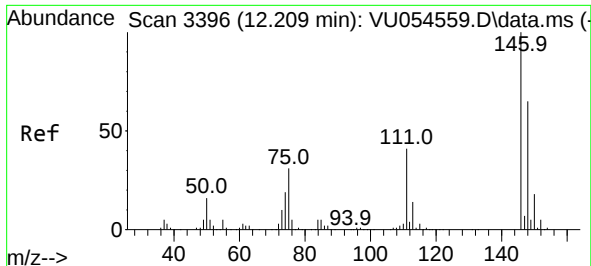
Ion Ratio Lower Upper

146 100

111 39.1 28.0 52.0

148 63.6 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 13.527 ug/L

RT: 12.206 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

Instrument :

MSVOA_U

ClientSampleId :

DCHB8

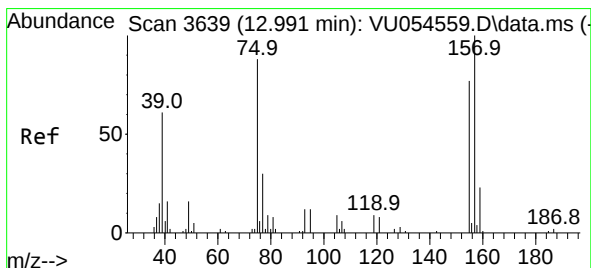
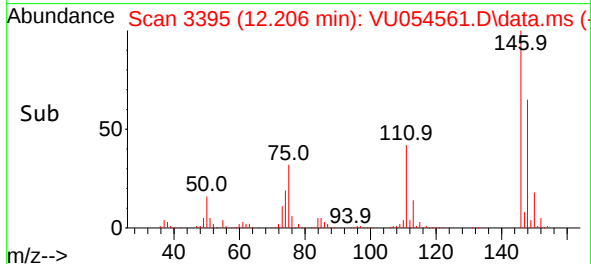
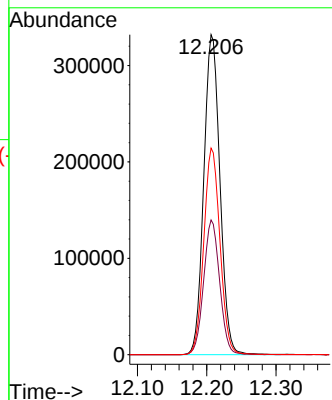
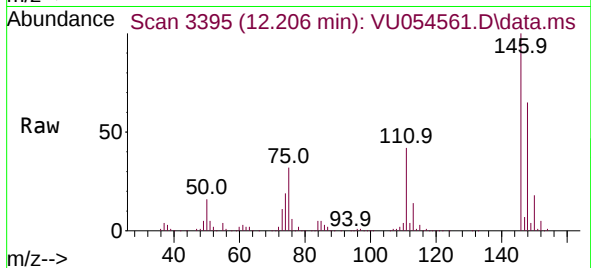
Tgt Ion:146 Resp: 537100

Ion Ratio Lower Upper

146 100

111 42.1 34.5 51.7

148 64.6 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 4.645 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU054561.D

Acq: 16 Jun 2023 10:07

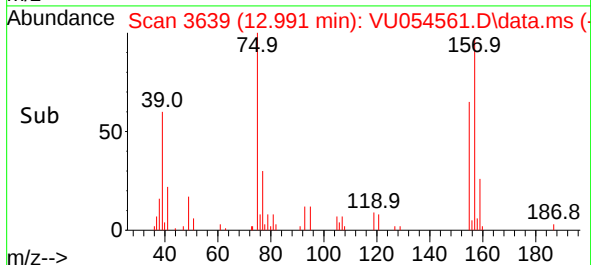
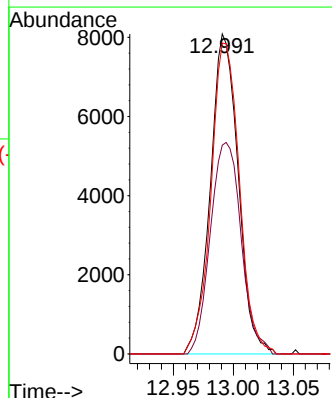
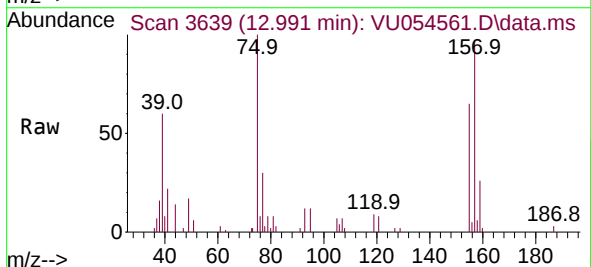
Tgt Ion: 75 Resp: 13023

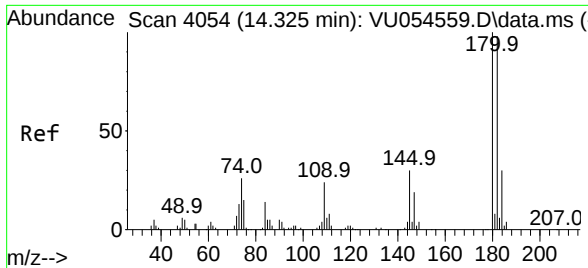
Ion Ratio Lower Upper

75 100

155 65.3 65.7 98.5#

157 97.2 84.2 126.2





#72
 1,2,3-Trichlorobenzene
 Concen: 11.431 ug/L
 RT: 14.325 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: VU054561.D
 Acq: 16 Jun 2023 10:07

Instrument :
 MSVOA_U
 ClientSampleId :
 DCHB8

Tgt Ion:	180	Resp:	264529
Ion Ratio	Lower	Upper	
180	100		
182	95.9	75.4	113.2
145	31.4	26.0	39.0

