

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054372.D
 Acq On : 01 Jun 2023 05:15
 Operator : JC/MD
 Sample : 02986-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-14-0A

Quant Time: Jun 01 06:44:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

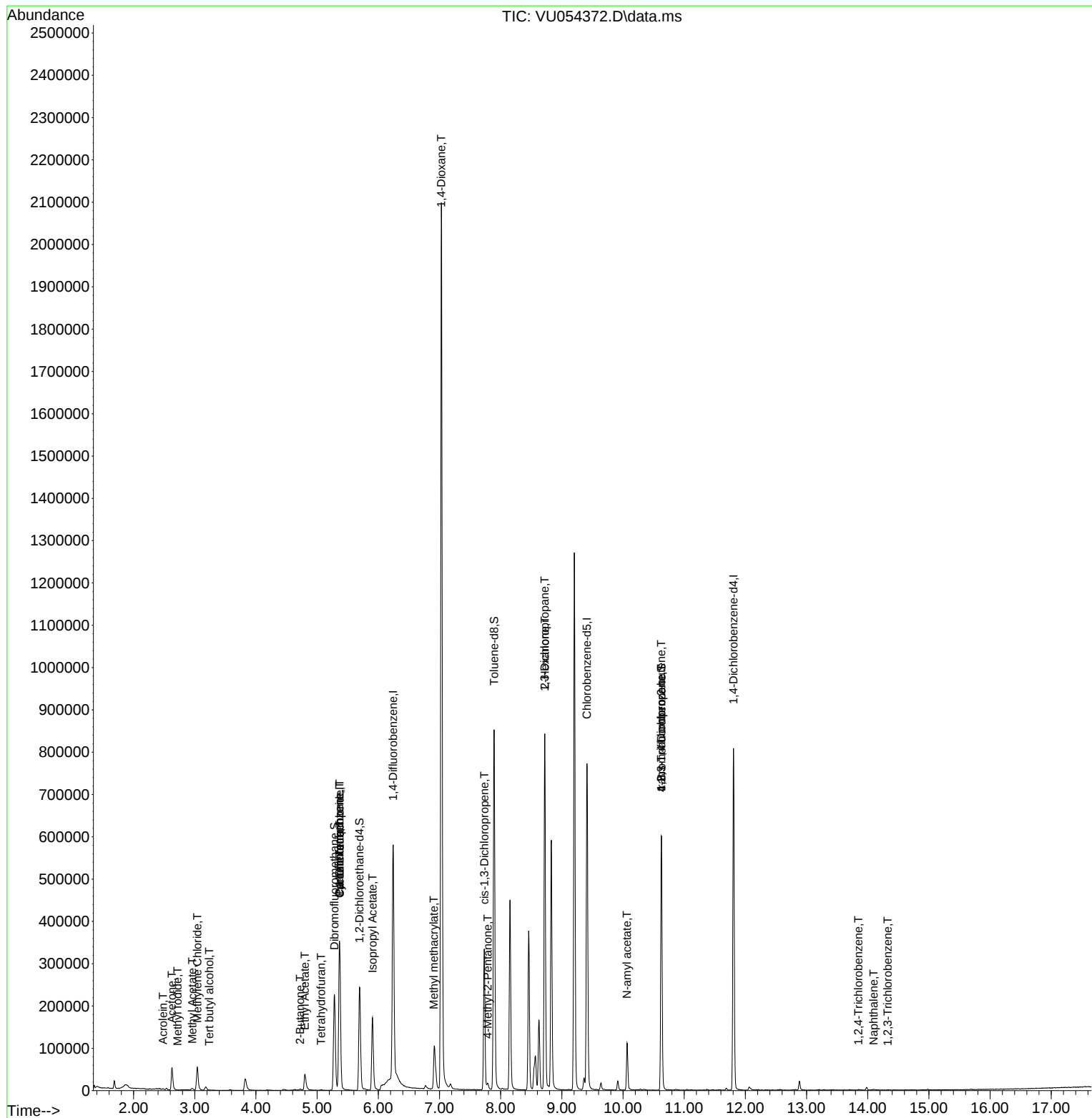
Internal Standards						
1) Pentafluorobenzene	5.366	168	259346	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	458901	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	442043	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	214329	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	183459	53.962	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.920%			
35) Dibromofluoromethane	5.282	113	152452	51.587	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.180%			
50) Toluene-d8	7.893	98	569810	50.692	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.380%			
62) 4-Bromofluorobenzene	10.629	95	199310	45.729	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 91.460%			
Target Compounds					Qvalue	
10) Methyl Iodide	2.716	142	70	2.352	ug/l #	43
11) Tert butyl alcohol	3.237	59	283	0.308	ug/l #	37
13) Acrolein	2.482	56	452	0.473	ug/l #	64
16) Acetone	2.626	43	62743	32.196	ug/l	97
18) Methyl Acetate	2.961	43	6470	0.909	ug/l #	89
20) Methylene Chloride	3.041	84	29527	8.399	ug/l	94
25) 2-Butanone	4.723	43	4909	1.903	ug/l #	87
29) Tetrahydrofuran	5.067	42	1158	0.714	ug/l #	48
31) Cyclohexane	5.369	56	5173	1.078	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	19590	4.220	ug/l #	48
37) Ethyl Acetate	4.800	43	50603	8.945	ug/l #	91
38) Carbon Tetrachloride	5.369	117	25087	5.280	ug/l #	16
43) Isopropyl Acetate	5.906	43	180229	23.098	ug/l	98
48) Methyl methacrylate	6.909	41	7745	2.238	ug/l #	31
49) 1,4-Dioxane	7.028	88	253	2.533	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	9762	1.875	ug/l	96
54) cis-1,3-Dichloropropene	7.732	75	62096	10.938	ug/l #	60
57) 1,3-Dichloropropane	8.719	76	8746	1.452	ug/l #	42
59) 2-Hexanone	8.723	43	105982	25.765	ug/l #	52
74) N-amyl acetate	10.067	43	34906	6.193	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	100241	16.025	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	100241	61.021	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.848	180	262	1.695	ug/l #	43
95) Naphthalene	14.099	128	2468	2.141	ug/l #	81
96) 1,2,3-Trichlorobenzene	14.327	180	204	1.295	ug/l #	84

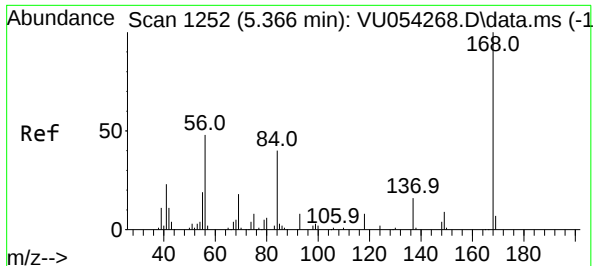
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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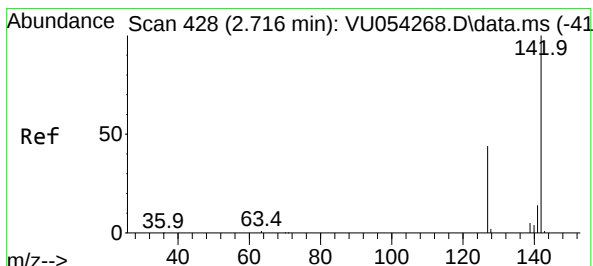
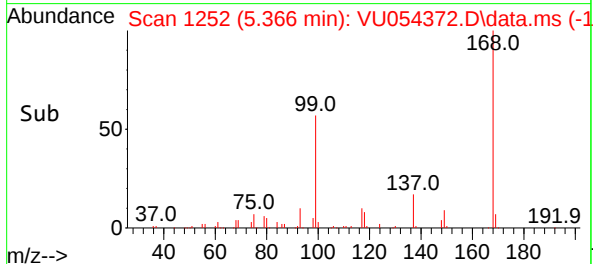
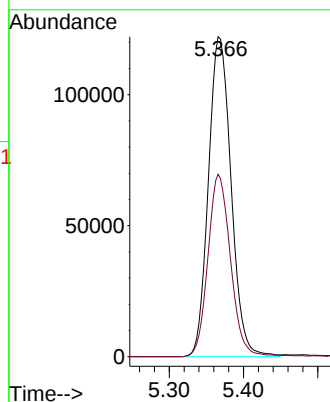
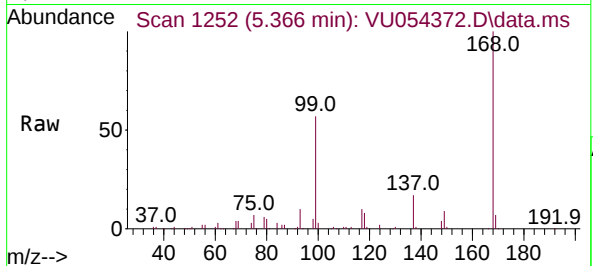




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

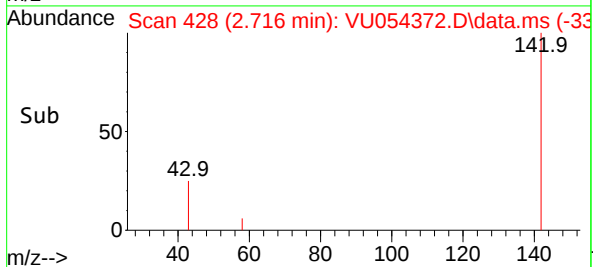
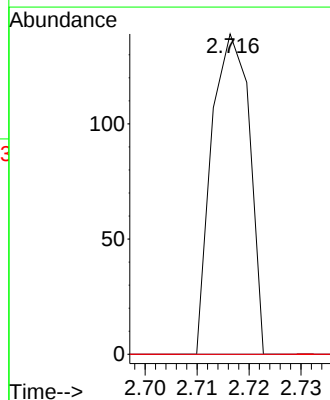
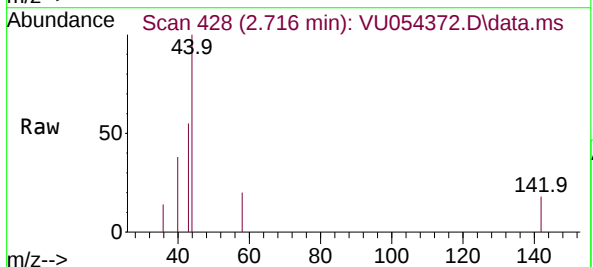
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

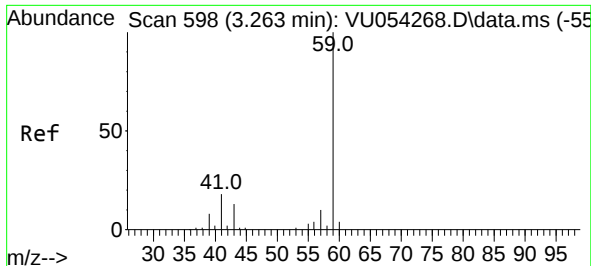
Tgt Ion:168 Resp: 259346
Ion Ratio Lower Upper
168 100
99 57.0 39.3 58.9



#10
Methyl Iodide
Concen: 2.352 ug/l
RT: 2.716 min Scan# 428
Delta R.T. 0.000 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion:142 Resp: 70
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

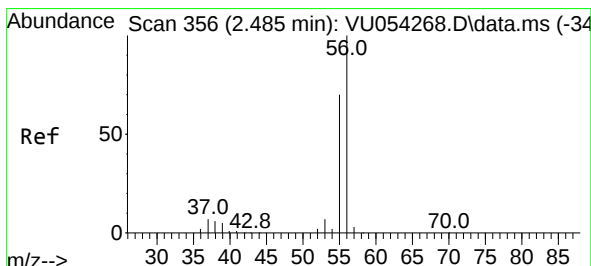
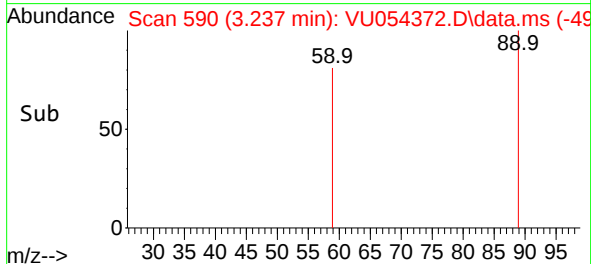
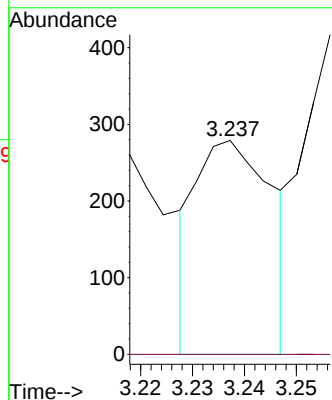
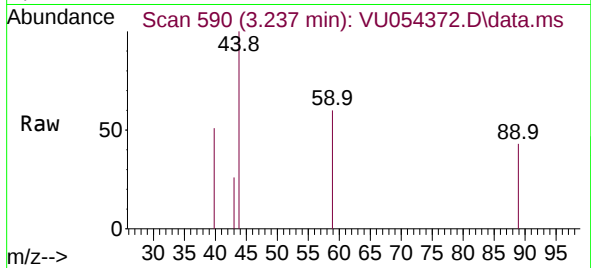




#11
Tert butyl alcohol
Concen: 0.308 ug/l
RT: 3.237 min Scan# 59
Delta R.T. -0.006 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

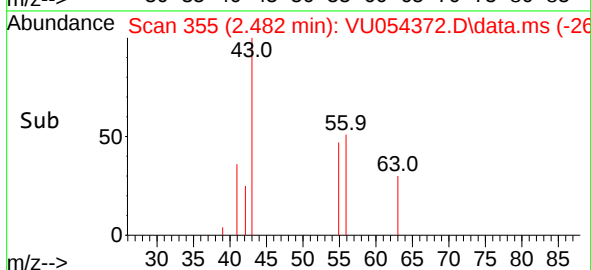
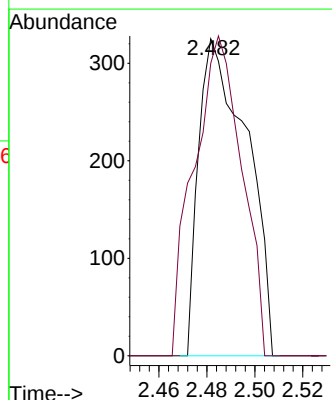
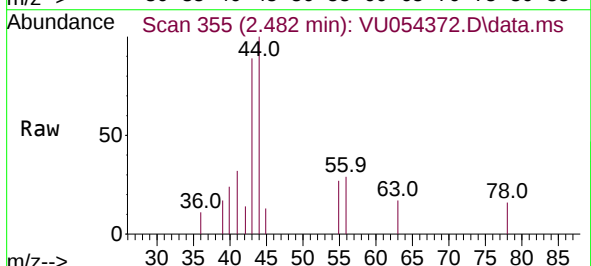
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

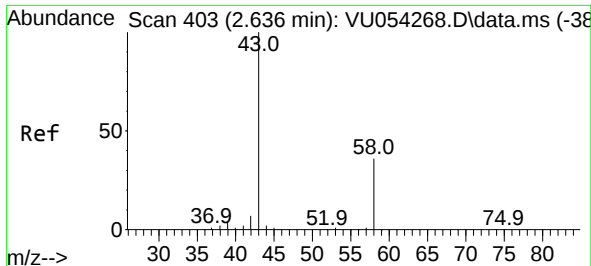
Tgt Ion: 59 Resp: 283
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#13
Acrolein
Concen: 0.473 ug/l
RT: 2.482 min Scan# 355
Delta R.T. -0.003 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion: 56 Resp: 452
Ion Ratio Lower Upper
56 100
55 100.7 56.6 85.0#





#16

Acetone

Concen: 32.196 ug/l

RT: 2.626 min Scan# 40

Delta R.T. -0.010 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

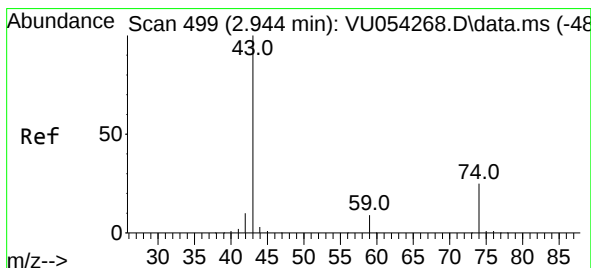
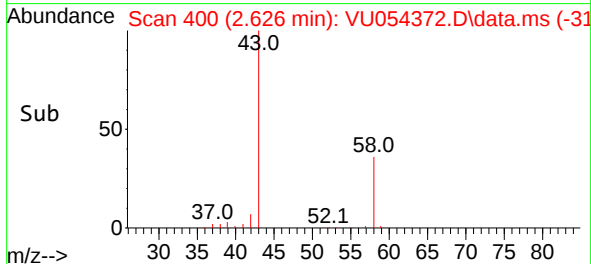
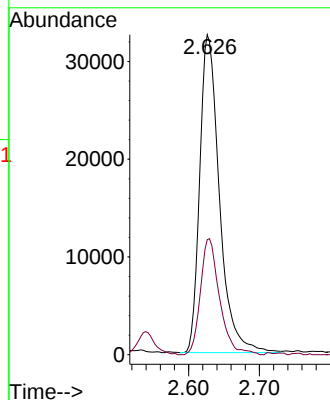
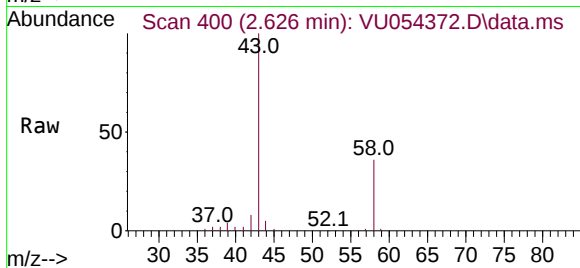
TP-14-0A

Tgt Ion: 43 Resp: 62743

Ion Ratio Lower Upper

43 100

58 36.2 27.5 41.3



#18

Methyl Acetate

Concen: 0.909 ug/l

RT: 2.961 min Scan# 504

Delta R.T. 0.017 min

Lab File: VU054372.D

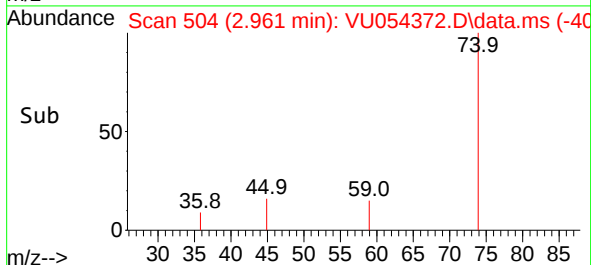
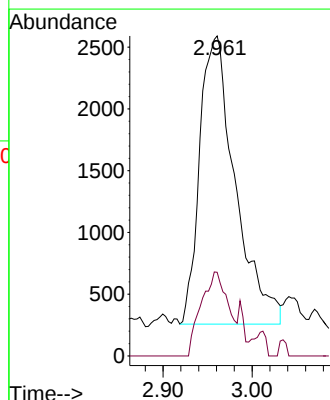
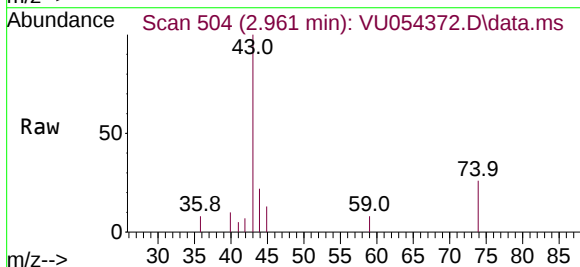
Acq: 01 Jun 2023 05:15

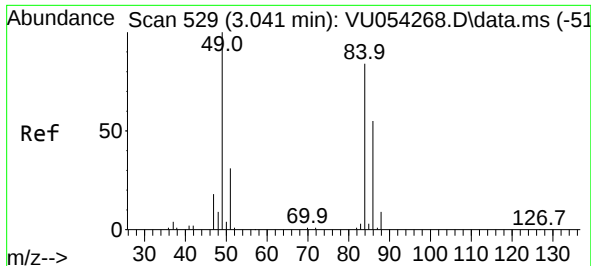
Tgt Ion: 43 Resp: 6470

Ion Ratio Lower Upper

43 100

74 22.4 22.5 33.7#

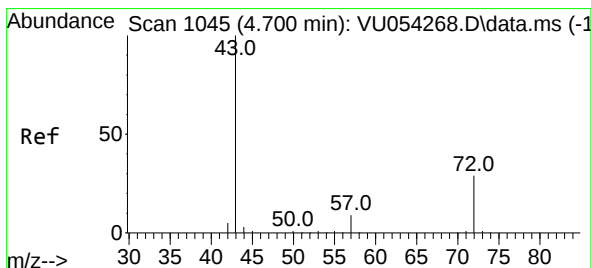
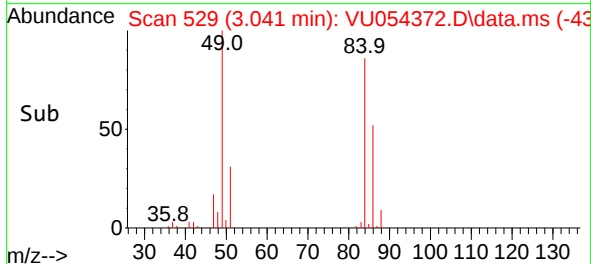
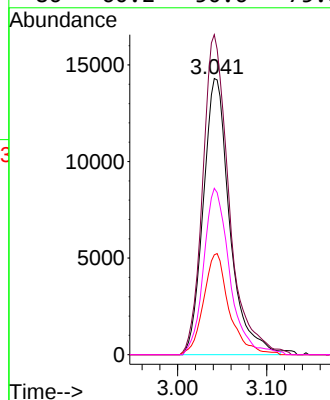
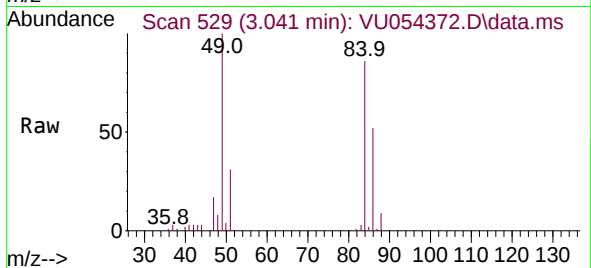




#20
Methylene Chloride
Concen: 8.399 ug/l
RT: 3.041 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

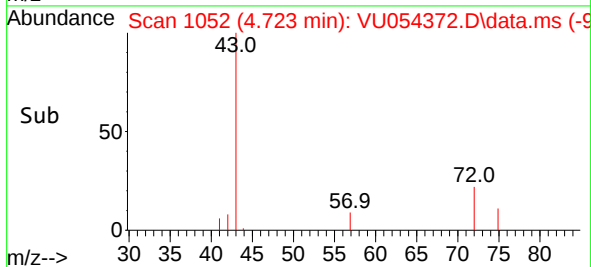
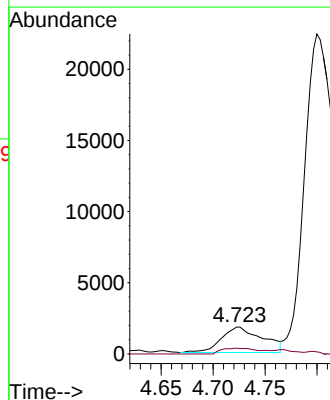
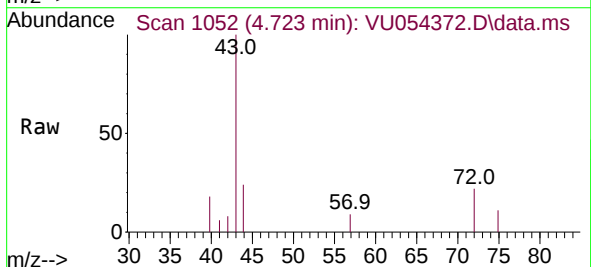
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

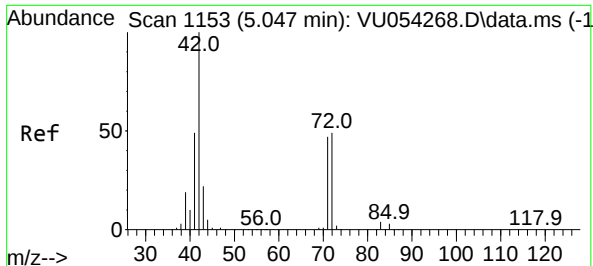
Tgt Ion: 84	Resp: 29527
Ion Ratio	Lower Upper
84 100	
49 115.9	86.6 129.8
51 36.2	26.6 40.0
86 60.2	50.6 75.8



#25
2-Butanone
Concen: 1.903 ug/l
RT: 4.723 min Scan# 1052
Delta R.T. 0.023 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion: 43	Resp: 4909		
Ion Ratio	Lower	Upper	
43 100			
72 22.9	23.8	35.6#	





#29

Tetrahydrofuran

Concen: 0.714 ug/l

RT: 5.067 min Scan# 1158

Delta R.T. 0.020 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

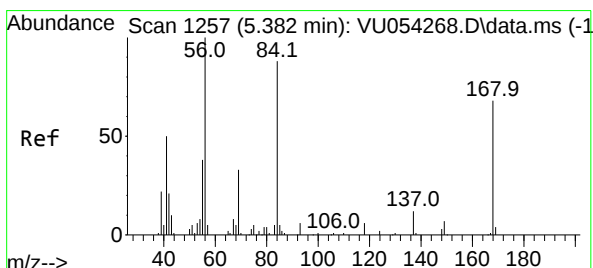
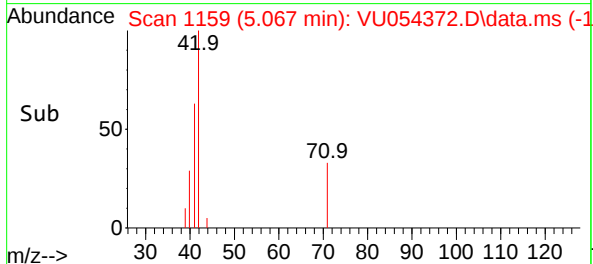
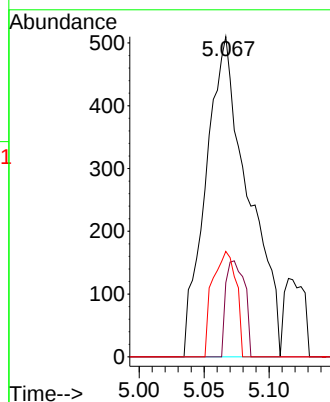
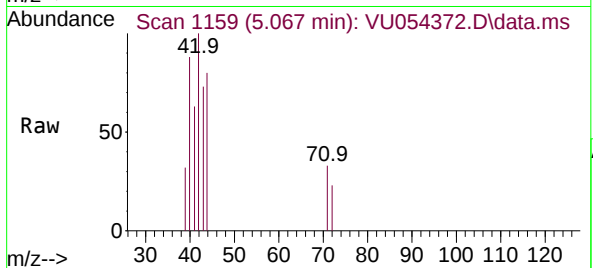
Instrument :

MSVOA_U

ClientSampleId :

TP-14-0A

Tgt Ion:	42	Resp:	1158
Ion	Ratio	Lower	Upper
42	100		
72	13.2	42.6	63.8#
71	18.1	40.3	60.5#



#31

Cyclohexane

Concen: 1.078 ug/l

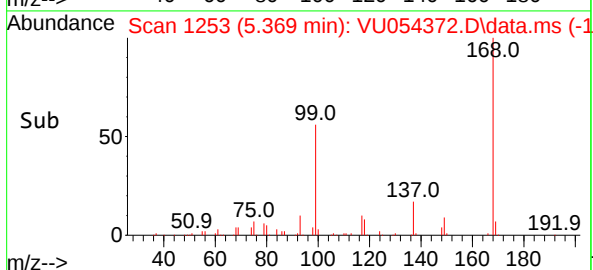
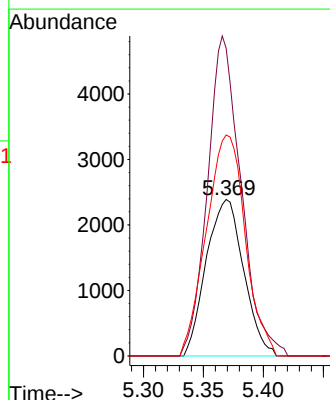
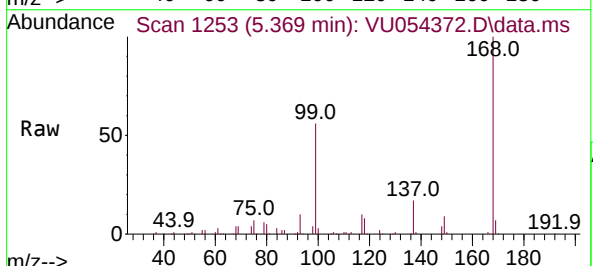
RT: 5.369 min Scan# 1253

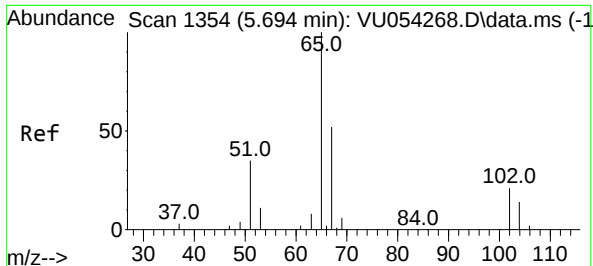
Delta R.T. -0.013 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Tgt Ion:	56	Resp:	5173
Ion	Ratio	Lower	Upper
56	100		
69	196.7	27.8	41.8#
84	141.1	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 53.962 ug/l

RT: 5.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

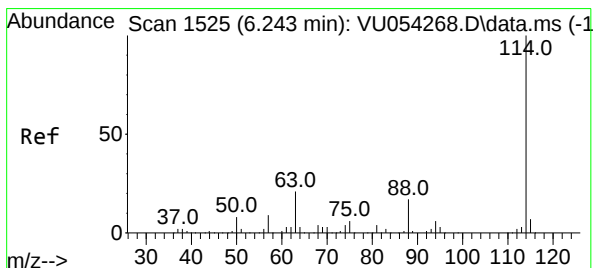
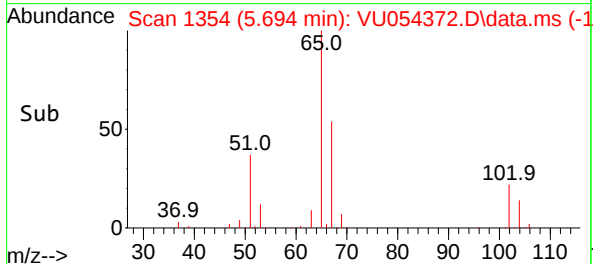
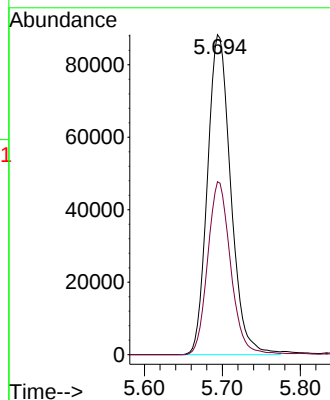
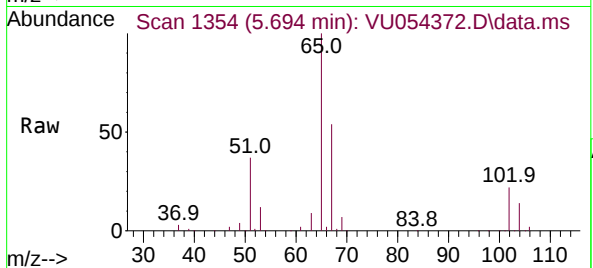
TP-14-0A

Tgt Ion: 65 Resp: 183459

Ion Ratio Lower Upper

65 100

67 53.2 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 1525

Delta R.T. 0.001 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

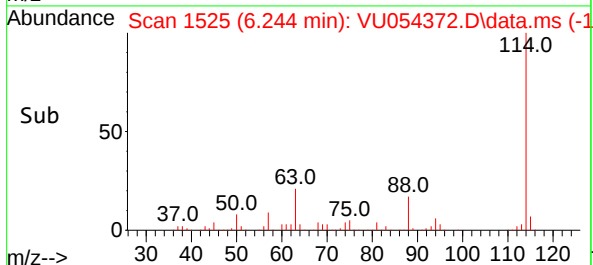
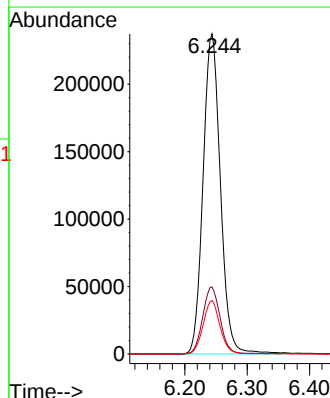
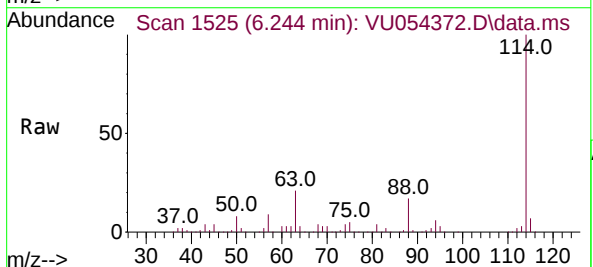
Tgt Ion: 114 Resp: 458901

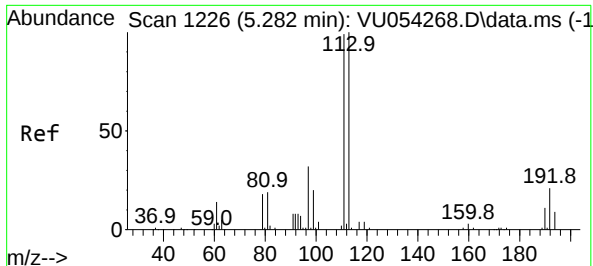
Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 16.7 0.0 29.2

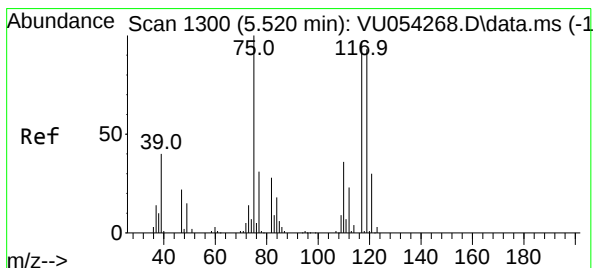
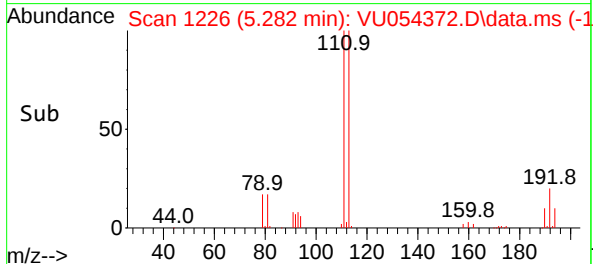
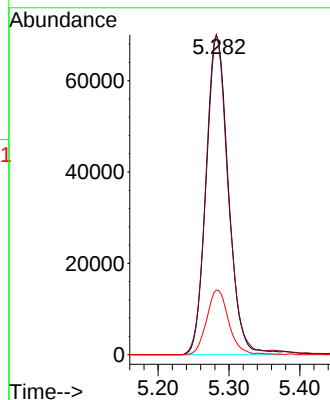
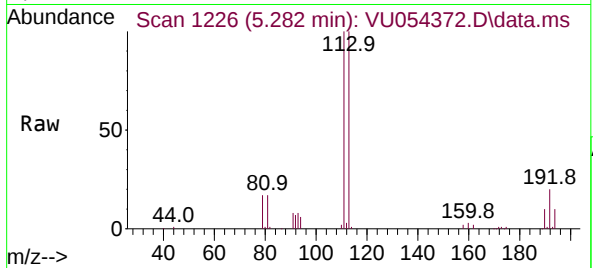




#35
Dibromofluoromethane
Concen: 51.587 ug/l
RT: 5.282 min Scan# 111
Delta R.T. 0.000 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

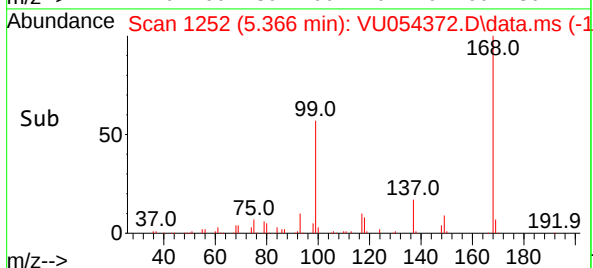
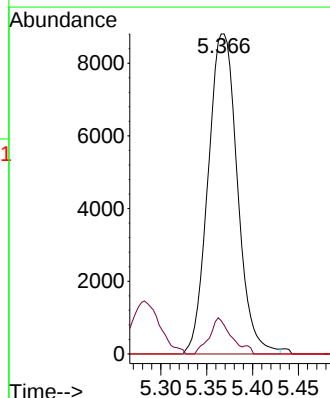
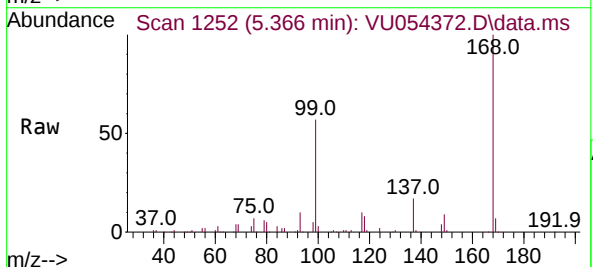
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

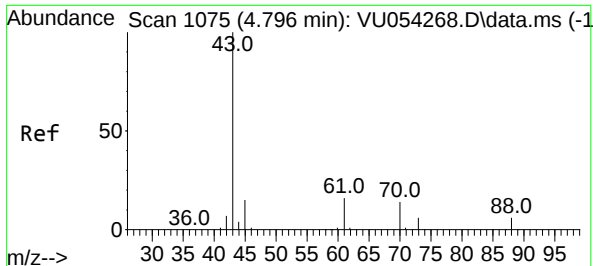
Tgt Ion:113 Resp: 152452
Ion Ratio Lower Upper
113 100
111 100.1 82.1 123.1
192 19.9 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.220 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion: 75 Resp: 19590
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 8.945 ug/l

RT: 4.800 min Scan# 1

Delta R.T. 0.004 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

TP-14-0A

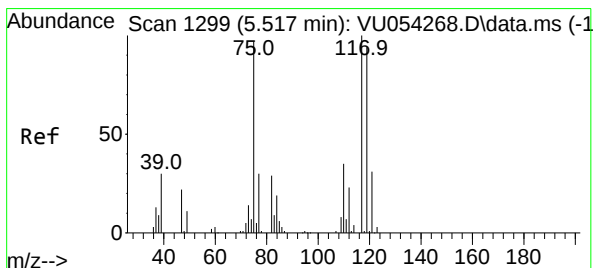
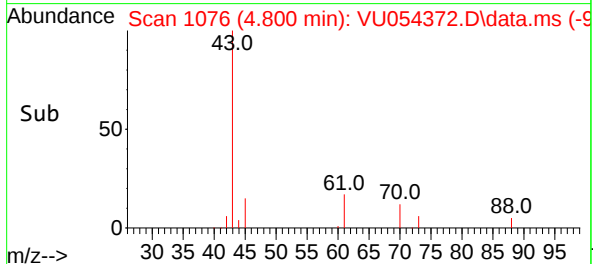
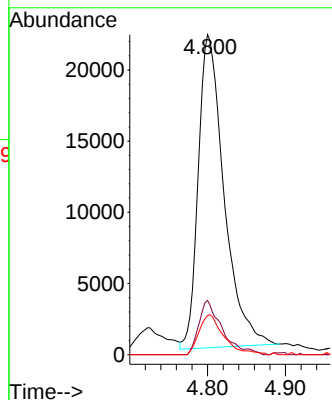
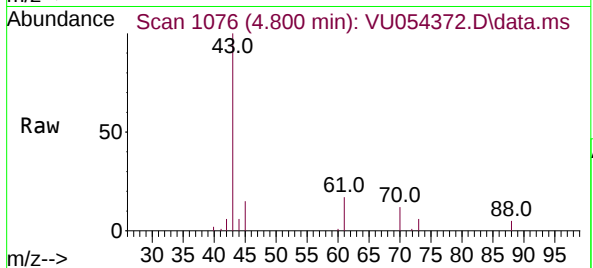
Tgt Ion: 43 Resp: 50603

Ion Ratio Lower Upper

43 100

61 15.6 9.5 14.3#

70 12.2 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.280 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

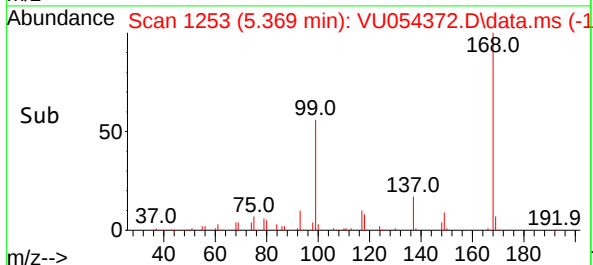
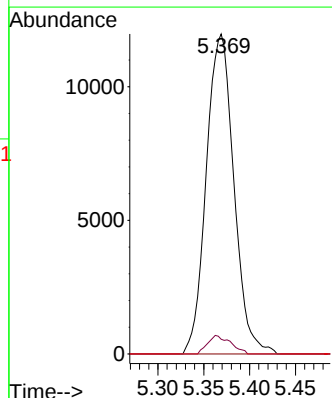
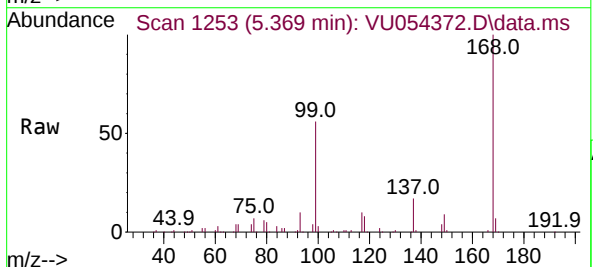
Tgt Ion: 117 Resp: 25087

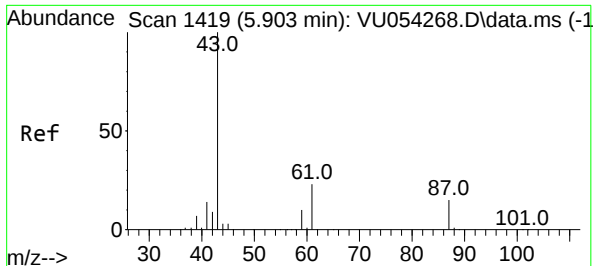
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 23.098 ug/l

RT: 5.906 min Scan# 1419

Delta R.T. 0.003 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

TP-14-0A

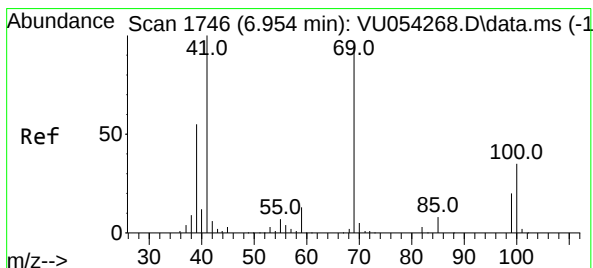
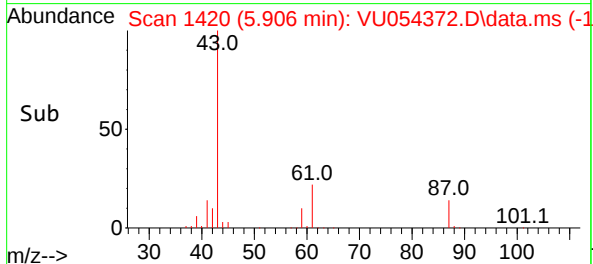
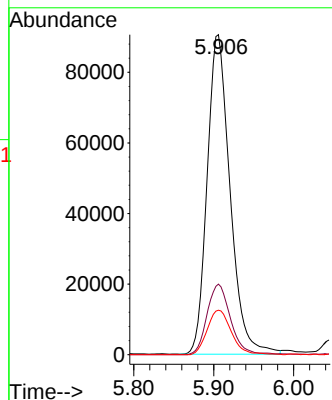
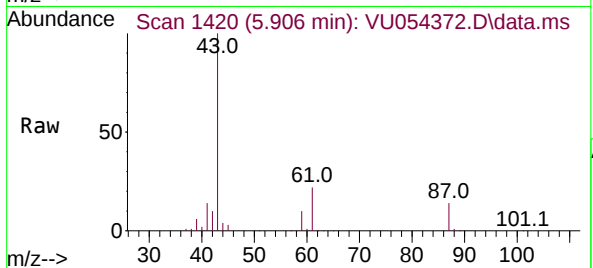
Tgt Ion: 43 Resp: 180229

Ion Ratio Lower Upper

43 100

61 22.3 17.4 26.0

87 14.7 12.6 18.8



#48

Methyl methacrylate

Concen: 2.238 ug/l

RT: 6.909 min Scan# 1732

Delta R.T. -0.045 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

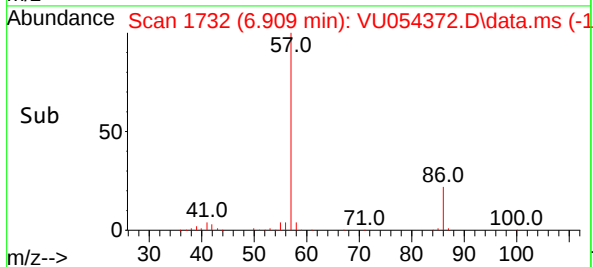
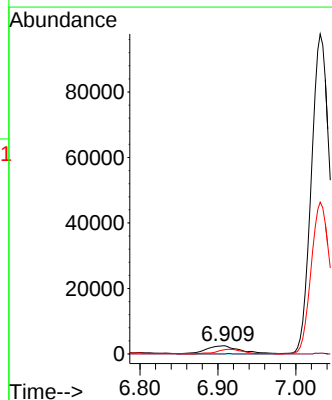
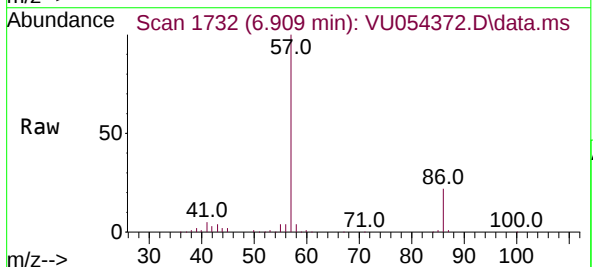
Tgt Ion: 41 Resp: 7745

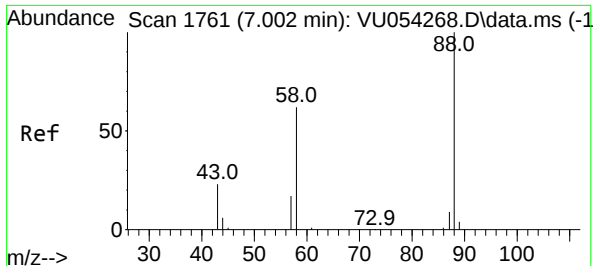
Ion Ratio Lower Upper

41 100

69 0.7 79.8 119.6#

39 45.3 47.9 71.9#





#49

1,4-Dioxane

Concen: 2.533 ug/l

RT: 7.028 min Scan# 11

Delta R.T. 0.026 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

TP-14-0A

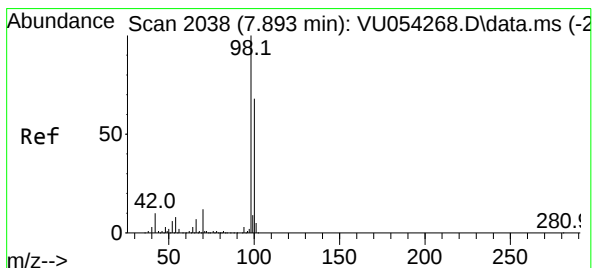
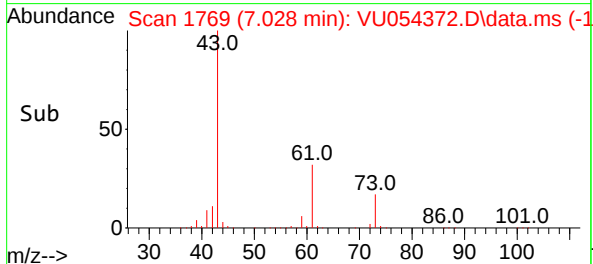
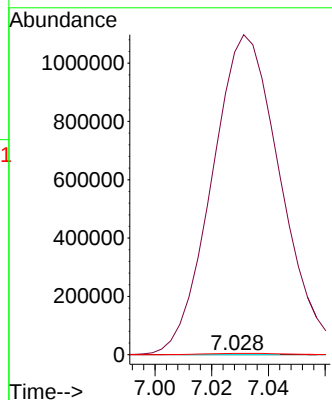
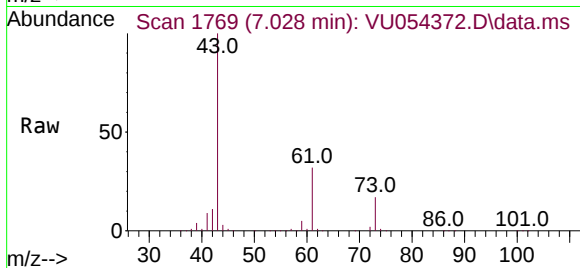
Tgt Ion: 88 Resp: 253

Ion Ratio Lower Upper

88 100

43 747545.1 0.0 0.0#

58 3490.9 15.4 23.0#



#50

Toluene-d8

Concen: 50.692 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054372.D

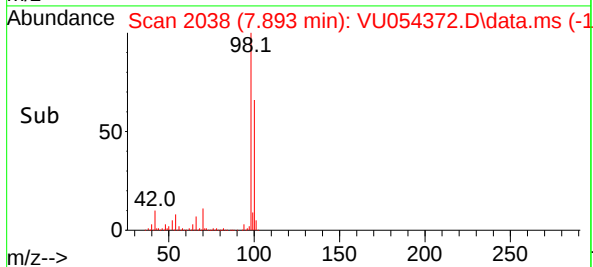
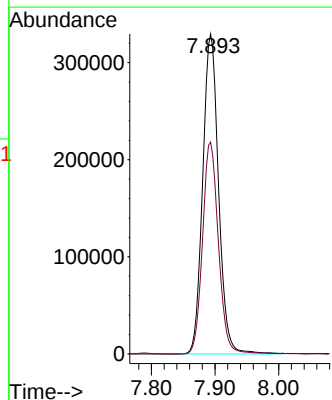
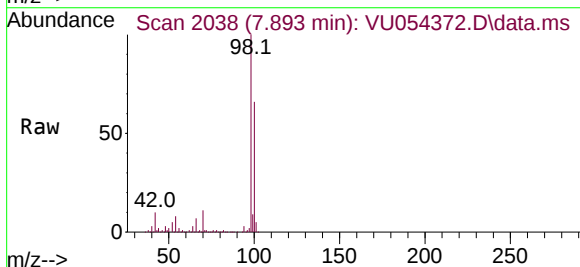
Acq: 01 Jun 2023 05:15

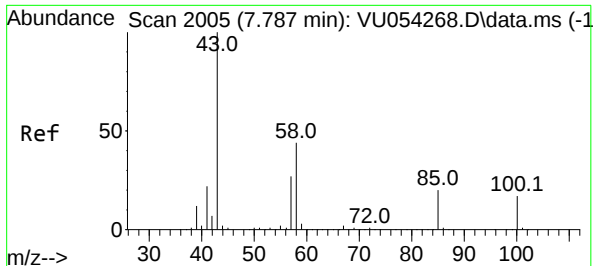
Tgt Ion: 98 Resp: 569810

Ion Ratio Lower Upper

98 100

100 66.3 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.875 ug/l

RT: 7.787 min Scan# 2005

Delta R.T. -0.000 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

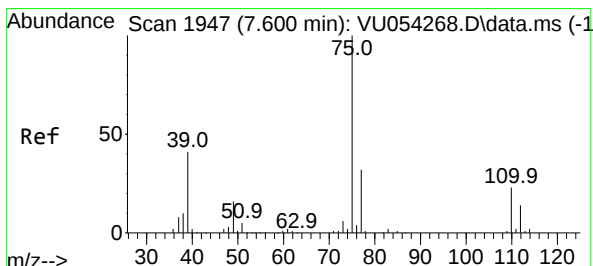
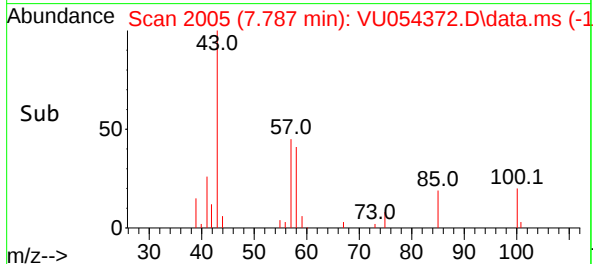
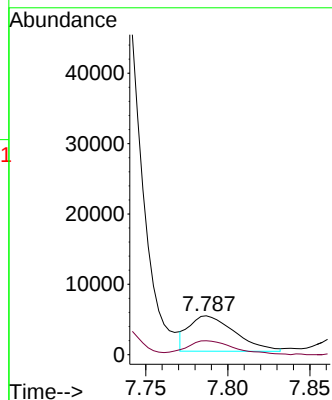
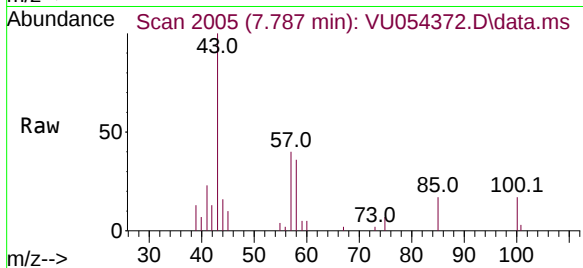
TP-14-0A

Tgt Ion: 43 Resp: 9762

Ion Ratio Lower Upper

43 100

58 41.0 34.7 52.1



#54

cis-1,3-Dichloropropene

Concen: 10.938 ug/l

RT: 7.732 min Scan# 1988

Delta R.T. 0.132 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

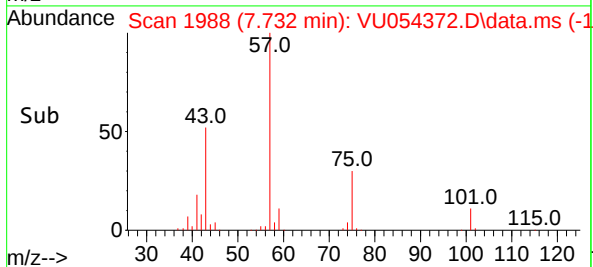
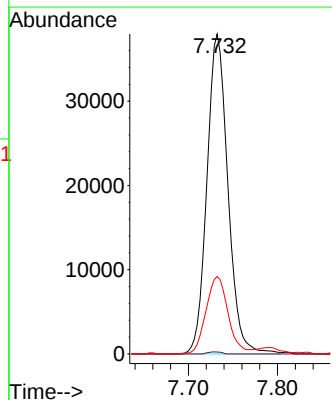
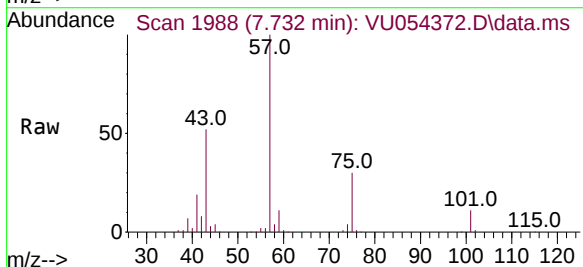
Tgt Ion: 75 Resp: 62096

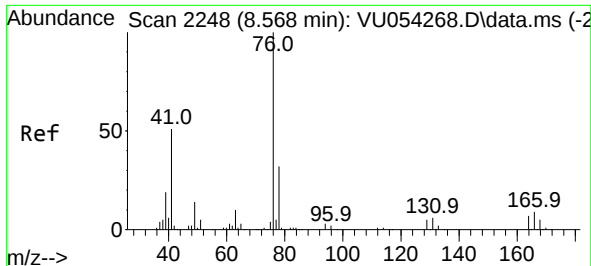
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 24.2 33.0 49.6#





#57

1,3-Dichloropropane

Concen: 1.452 ug/l

RT: 8.719 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

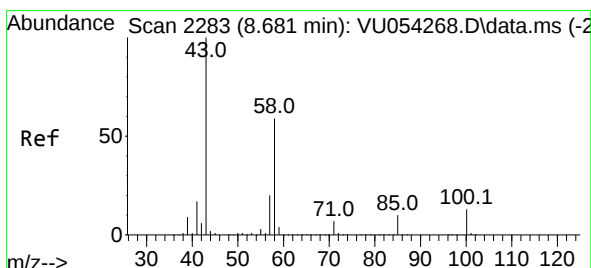
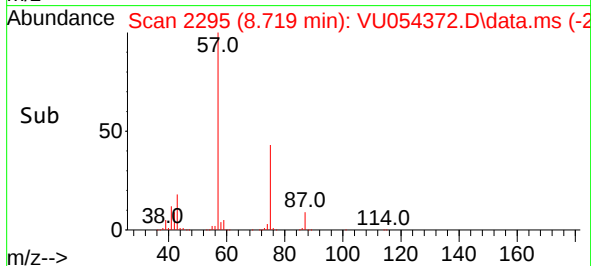
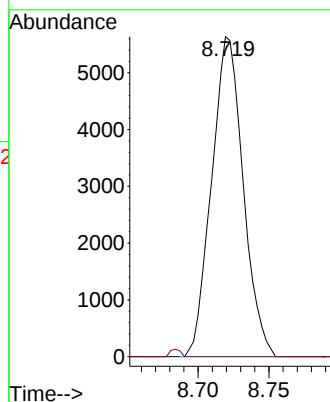
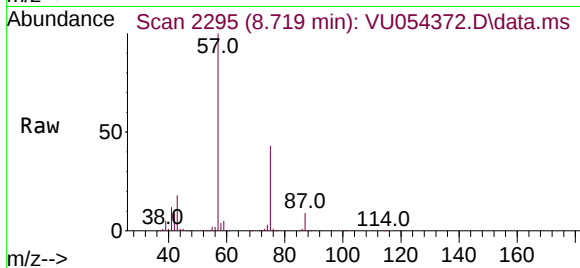
TP-14-0A

Tgt Ion: 76 Resp: 8746

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 25.765 ug/l

RT: 8.723 min Scan# 2296

Delta R.T. 0.042 min

Lab File: VU054372.D

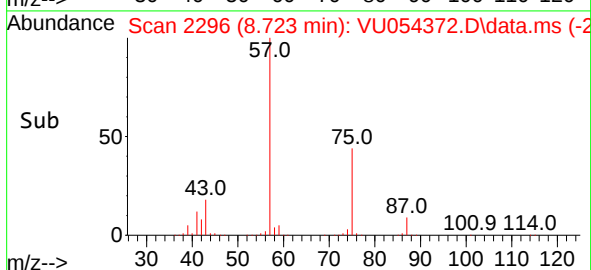
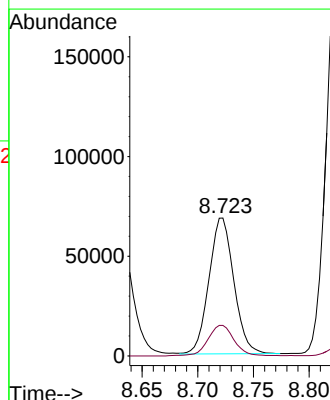
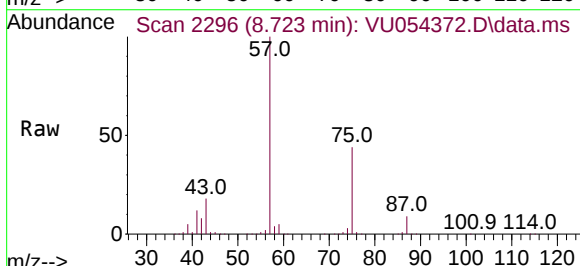
Acq: 01 Jun 2023 05:15

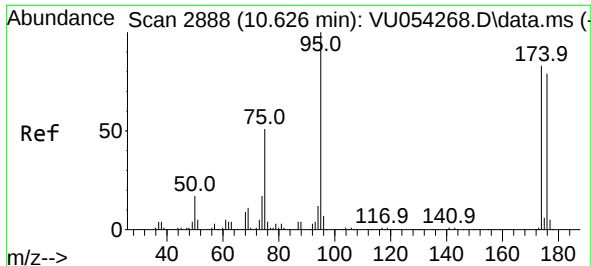
Tgt Ion: 43 Resp: 105982

Ion Ratio Lower Upper

43 100

58 23.9 30.3 90.8#

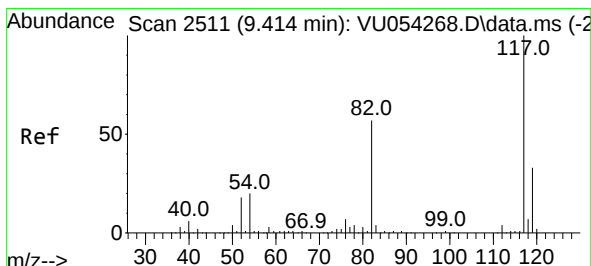
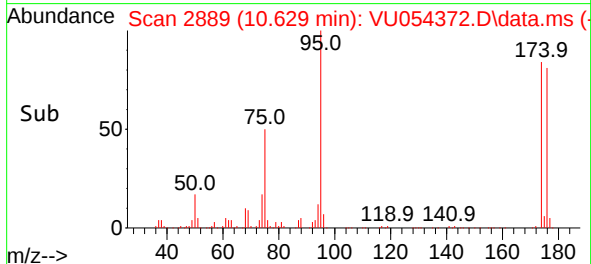
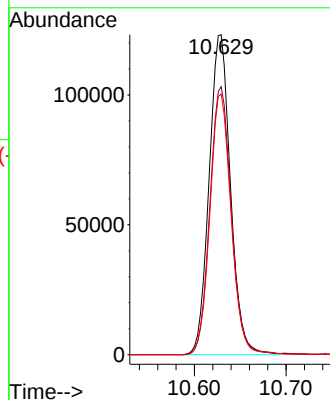
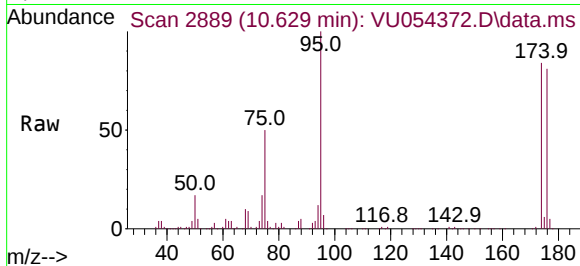




#62
4-Bromofluorobenzene
Concen: 45.729 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

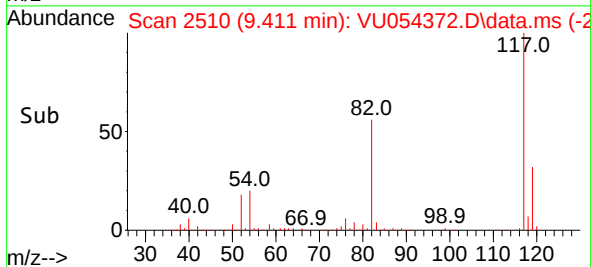
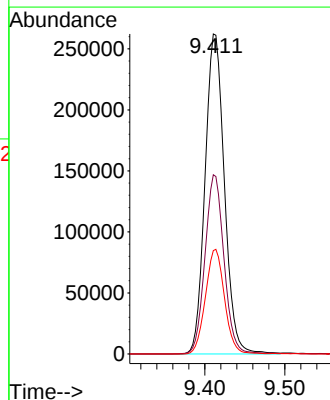
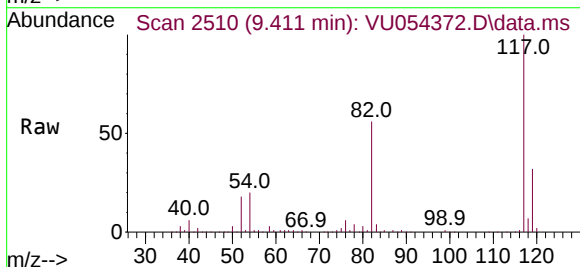
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

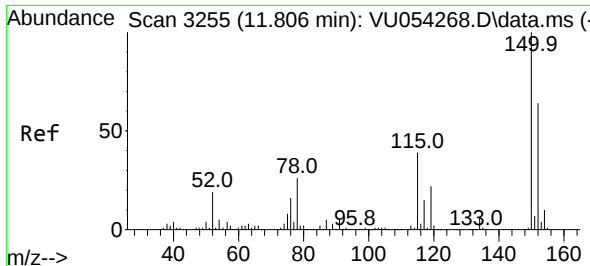
Tgt Ion: 95 Resp: 199310
Ion Ratio Lower Upper
95 100
174 84.3 0.0 182.0
176 80.8 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2510
Delta R.T. -0.003 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion: 117 Resp: 442043
Ion Ratio Lower Upper
117 100
82 55.9 41.7 62.5
119 32.3 25.7 38.5

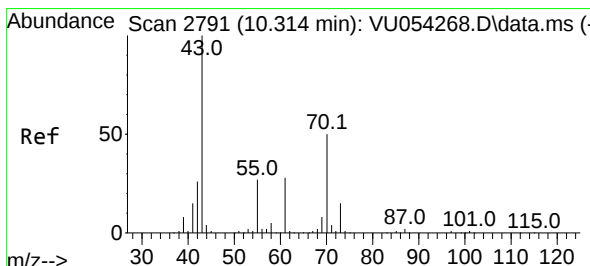
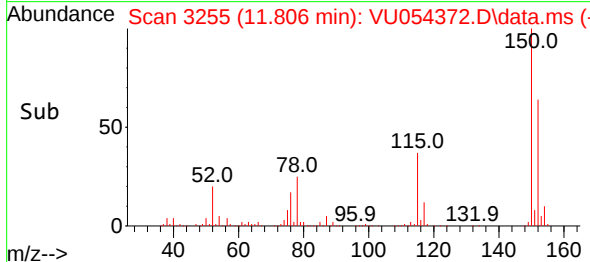
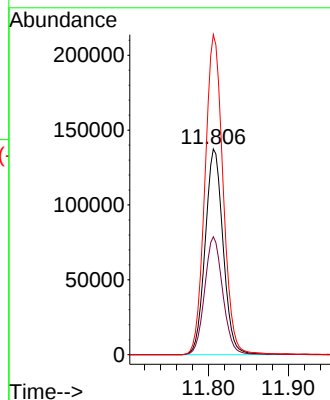
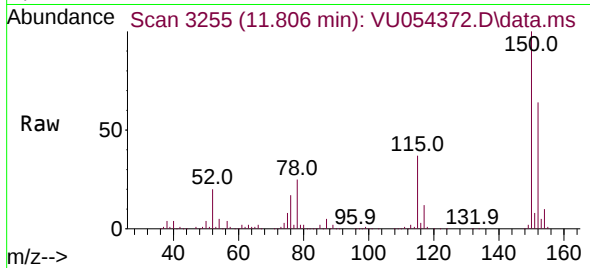




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

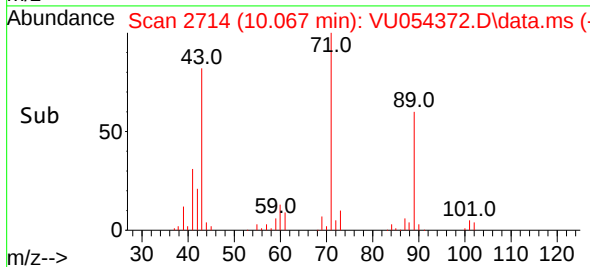
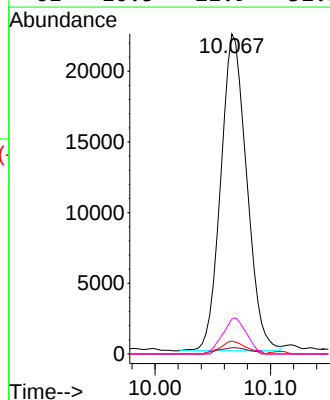
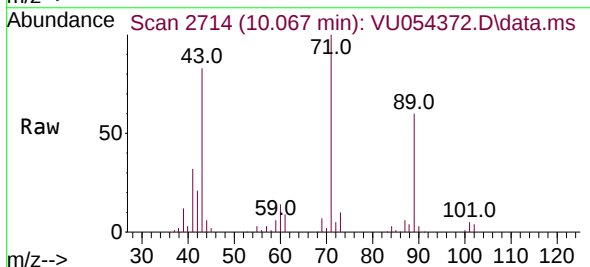
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

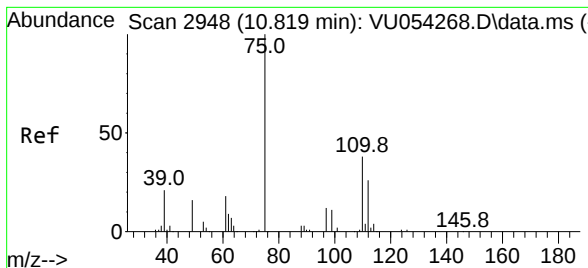
Tgt Ion:152 Resp: 214329
Ion Ratio Lower Upper
152 100
115 58.0 37.0 110.9
150 157.3 0.0 342.2



#74
N-ethyl acetate
Concen: 6.193 ug/l
RT: 10.067 min Scan# 2714
Delta R.T. -0.247 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion: 43 Resp: 34906
Ion Ratio Lower Upper
43 100
70 2.2 38.7 58.1#
55 4.0 21.8 32.8#
61 10.5 21.9 32.9#





#76

1,2,3-Trichloropropane

Concen: 16.025 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

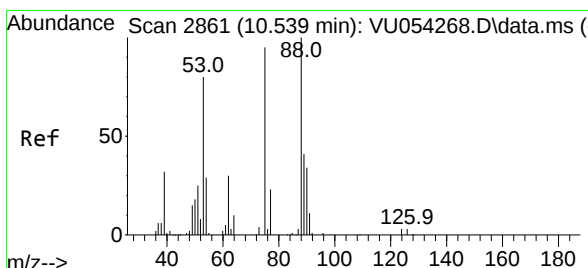
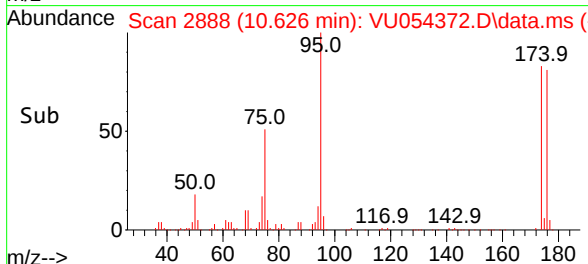
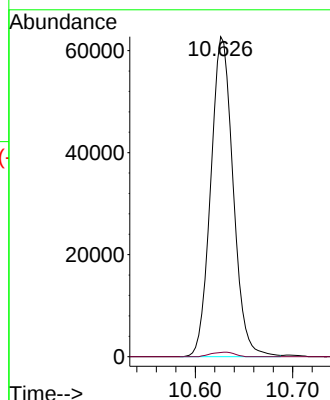
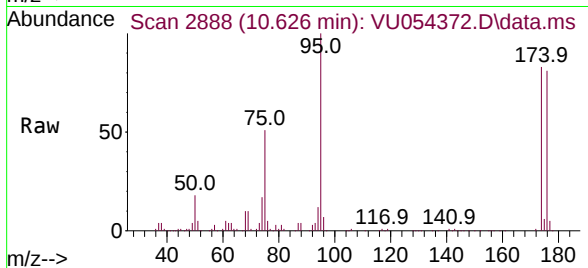
TP-14-0A

Tgt Ion: 75 Resp: 100241

Ion Ratio Lower Upper

75 100

77 1.5 15.8 47.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.021 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.087 min

Lab File: VU054372.D

Acq: 01 Jun 2023 05:15

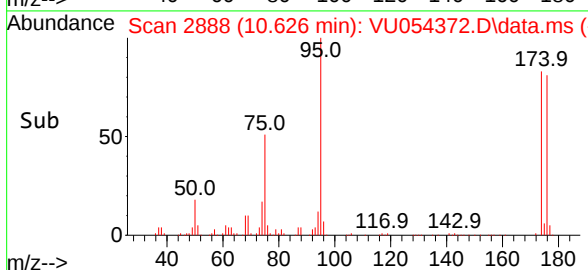
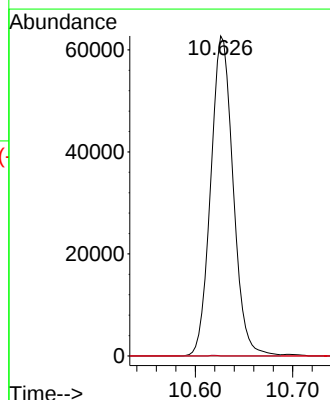
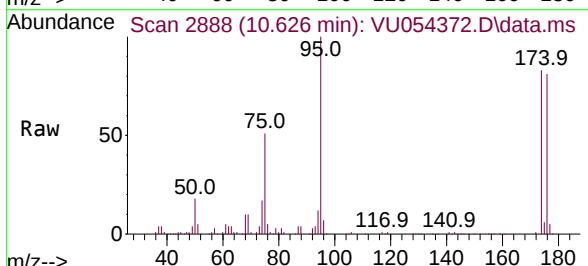
Tgt Ion: 75 Resp: 100241

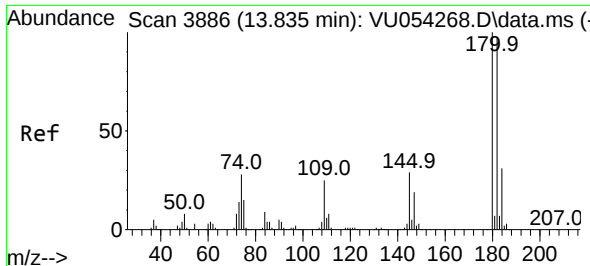
Ion Ratio Lower Upper

75 100

53 0.1 69.2 103.8#

89 0.0 37.0 55.6#

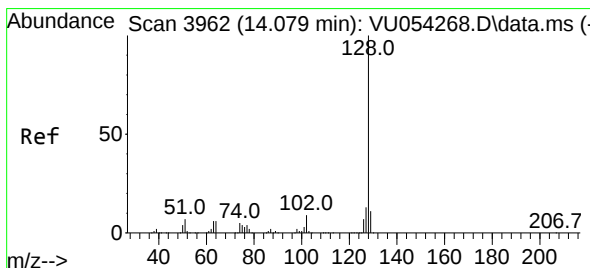
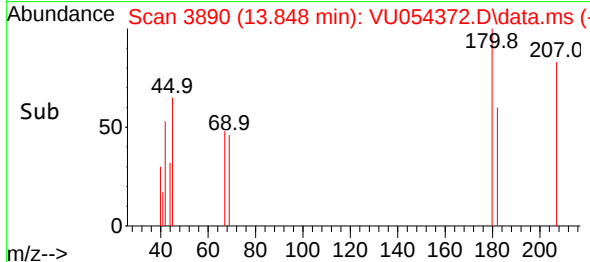
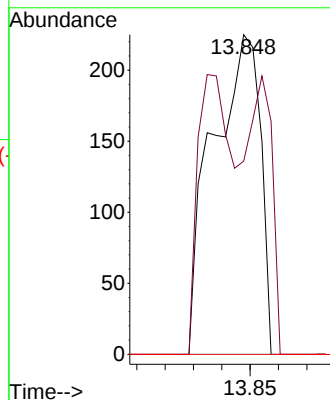
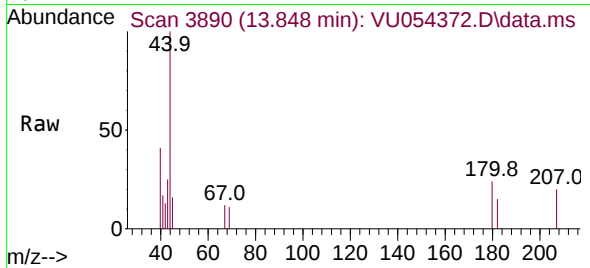




#93
1,2,4-Trichlorobenzene
Concen: 1.695 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.013 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

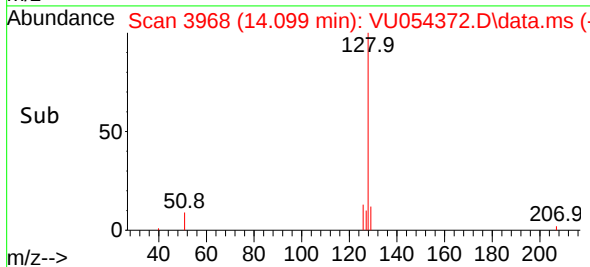
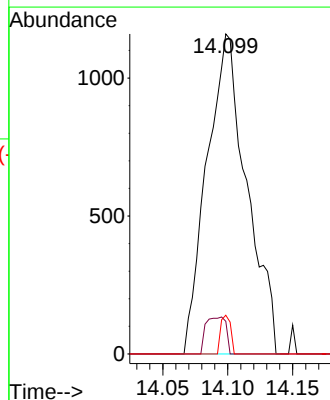
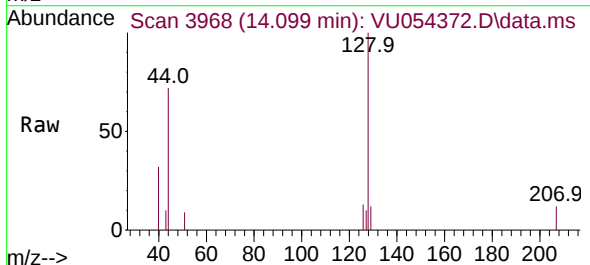
Instrument :
MSVOA_U
ClientSampleId :
TP-14-0A

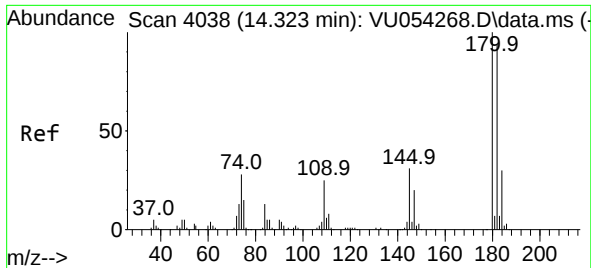
Tgt Ion:180 Resp: 262
Ion Ratio Lower Upper
180 100
182 38.5 47.9 143.6#
145 0.0 14.0 41.9#



#95
Naphthalene
Concen: 2.141 ug/l
RT: 14.099 min Scan# 3968
Delta R.T. 0.020 min
Lab File: VU054372.D
Acq: 01 Jun 2023 05:15

Tgt Ion:128 Resp: 2468
Ion Ratio Lower Upper
128 100
127 5.8 10.3 15.5#
129 3.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.295 ug/l

RT: 14.327 min Scan# 40

Delta R.T. 0.004 min

Lab File: VU054372.D

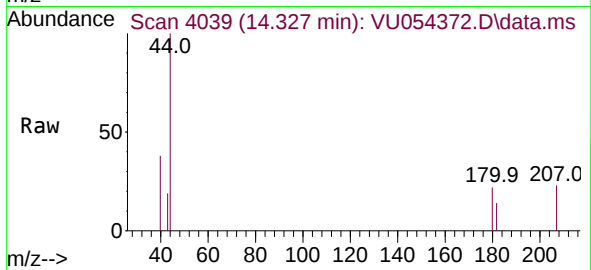
Acq: 01 Jun 2023 05:15

Instrument :

MSVOA_U

ClientSampleId :

TP-14-0A



Tgt Ion:180 Resp: 204

Ion Ratio Lower Upper

180 100

182 100.5 48.4 145.0

145 0.0 14.8 44.4#

