

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054369.D
 Acq On : 01 Jun 2023 04:04
 Operator : JC/MD
 Sample : 02981-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

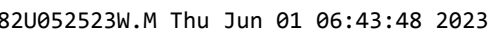
Quant Time: Jun 01 06:43:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

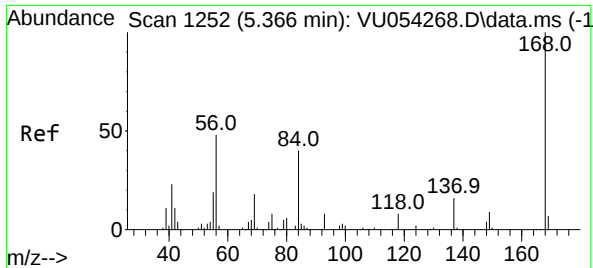
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.369	168	260272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.244	114	455910	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	430530	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	199541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	183947	53.913	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.820%			
35) Dibromofluoromethane	5.282	113	150634	51.307	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.620%			
50) Toluene-d8	7.893	98	574335	51.429	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.860%			
62) 4-Bromofluorobenzene	10.626	95	194277	44.867	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.740%			
Target Compounds					Qvalue	
10) Methyl Iodide	2.716	142	76	2.354	ug/l #	43
11) Tert butyl alcohol	3.231	59	359	0.390	ug/l #	37
16) Acetone	2.630	43	27569	14.097	ug/l	94
18) Methyl Acetate	2.958	43	5432	0.761	ug/l	91
20) Methylene Chloride	3.041	84	21206	6.010	ug/l	91
25) 2-Butanone	4.803	43	46679	18.027	ug/l #	45
29) Tetrahydrofuran	5.070	42	374	0.230	ug/l #	30
31) Cyclohexane	5.369	56	4959	1.029	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	19831	4.300	ug/l #	49
37) Ethyl Acetate	4.803	43	46679	8.306	ug/l #	92
38) Carbon Tetrachloride	5.369	117	25771	5.460	ug/l #	17
43) Isopropyl Acetate	5.903	43	175160	22.596	ug/l	99
45) 1,2-Dichloropropane	7.035	63	2731	0.796	ug/l #	43
48) Methyl methacrylate	6.903	41	6308	1.835	ug/l #	33
49) 1,4-Dioxane	7.031	88	190	1.914	ug/l #	1
51) 4-Methyl-2-Pentanone	7.790	43	7055	1.364	ug/l	98
54) cis-1,3-Dichloropropene	7.732	75	59918	10.624	ug/l #	61
57) 1,3-Dichloropropane	8.719	76	8114	1.356	ug/l #	42
59) 2-Hexanone	8.719	43	103247	25.265	ug/l #	48
74) N-amyl acetate	10.067	43	30736	5.858	ug/l #	48
76) 1,2,3-Trichloropropane	10.626	75	97047	16.664	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.626	75	97047	63.455	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.851	180	380	1.723	ug/l #	84
95) Naphthalene	14.095	128	1061	2.060	ug/l #	77
96) 1,2,3-Trichlorobenzene	14.333	180	201	1.298	ug/l #	75

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

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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

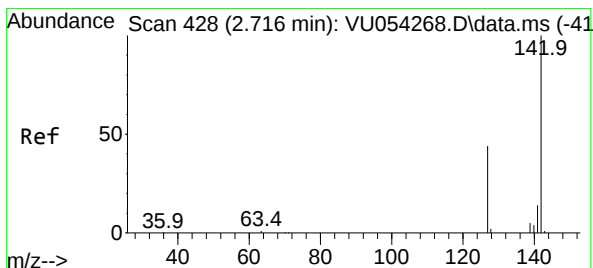
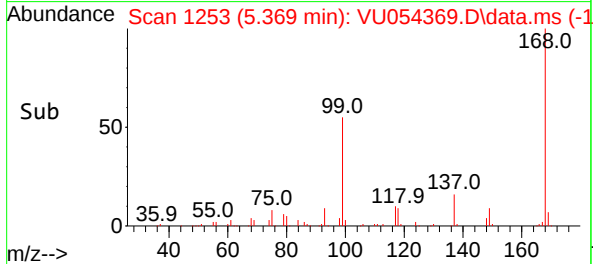
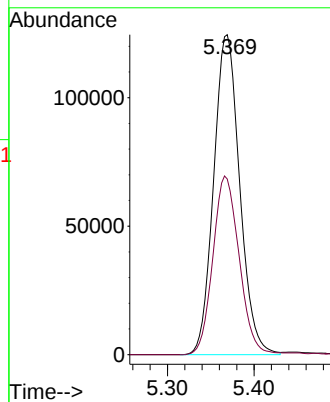
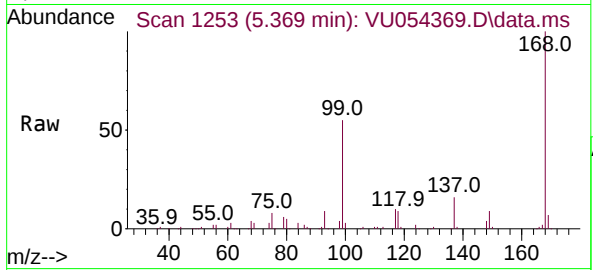




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

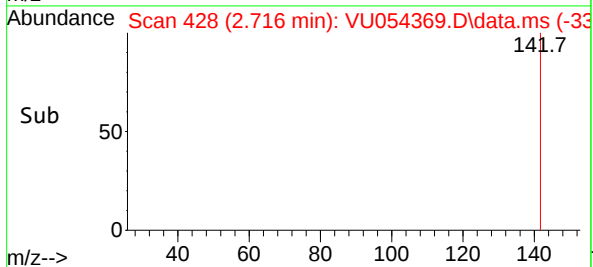
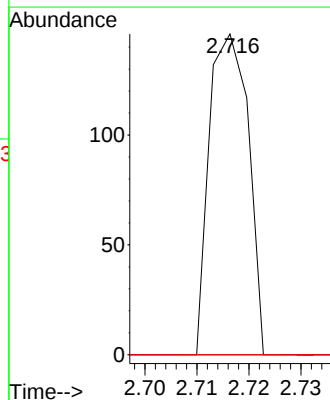
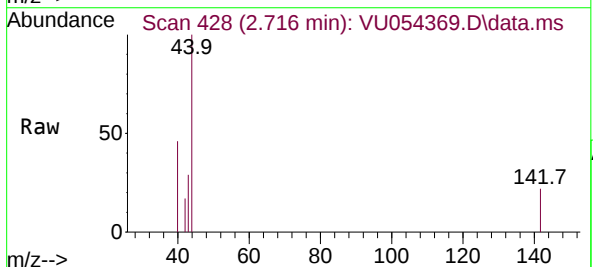
Instrument :
MSVOA_U
ClientSampleId :
TP-4

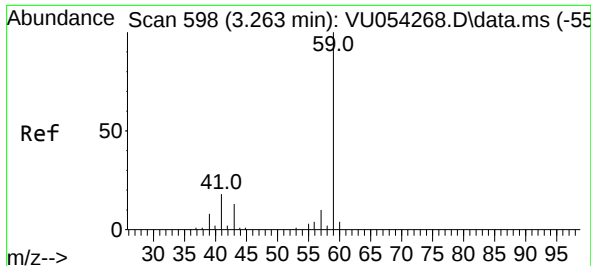
Tgt Ion:168 Resp: 260272
Ion Ratio Lower Upper
168 100
99 54.9 39.3 58.9



#10
Methyl Iodide
Concen: 2.354 ug/l
RT: 2.716 min Scan# 428
Delta R.T. 0.000 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion:142 Resp: 76
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

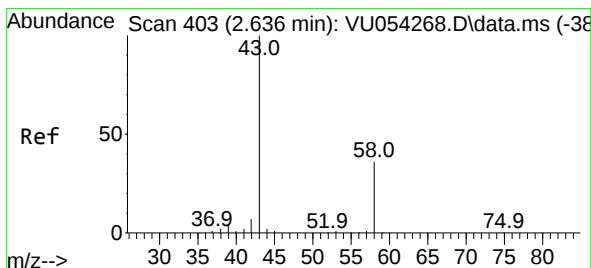
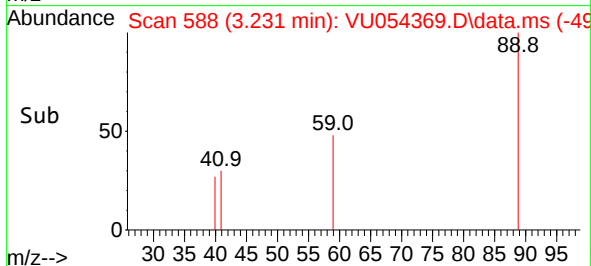
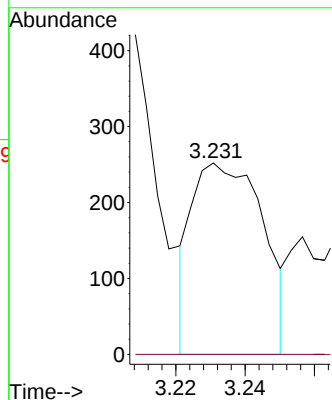
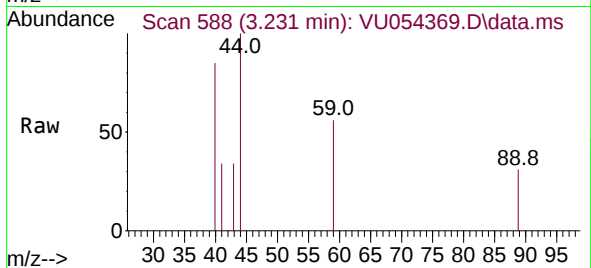




#11
Tert butyl alcohol
Concen: 0.390 ug/l
RT: 3.231 min Scan# 598
Delta R.T. -0.012 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

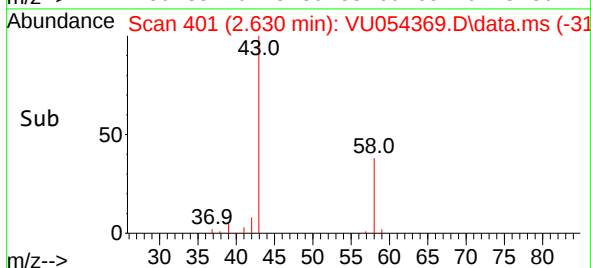
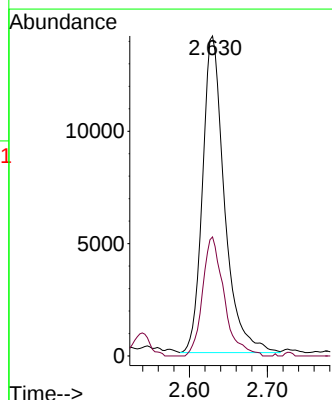
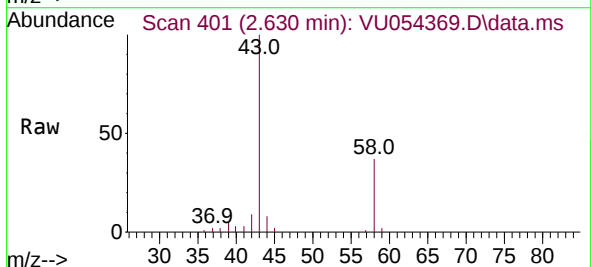
Instrument :
MSVOA_U
ClientSampleId :
TP-4

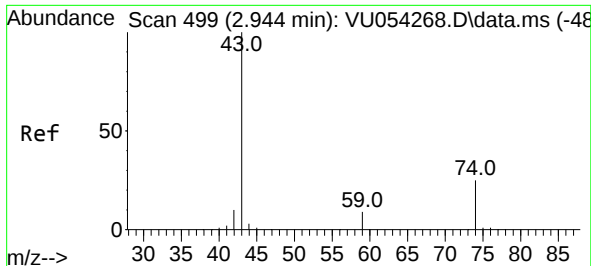
Tgt Ion: 59 Resp: 359
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#16
Acetone
Concen: 14.097 ug/l
RT: 2.630 min Scan# 401
Delta R.T. -0.006 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion: 43 Resp: 27569
Ion Ratio Lower Upper
43 100
58 37.6 27.5 41.3

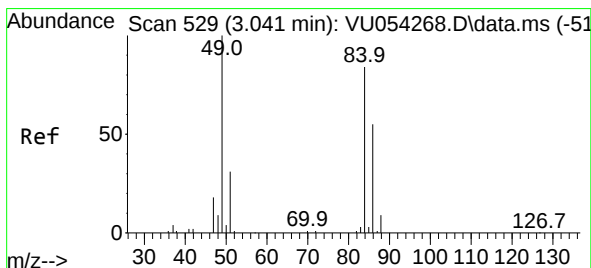
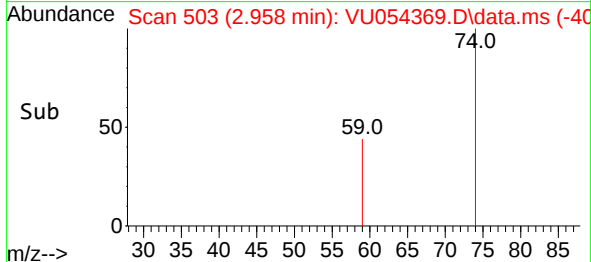
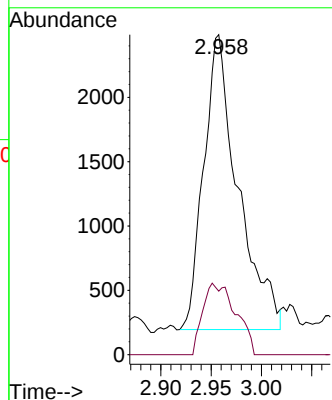
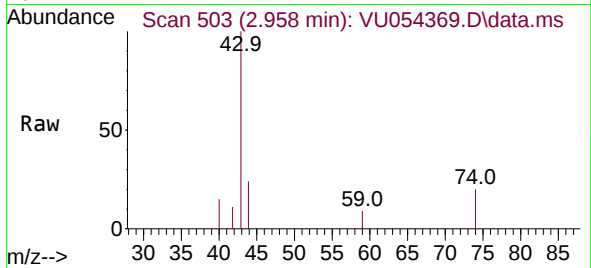




#18
Methyl Acetate
Concen: 0.761 ug/l
RT: 2.958 min Scan# 503
Delta R.T. 0.014 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

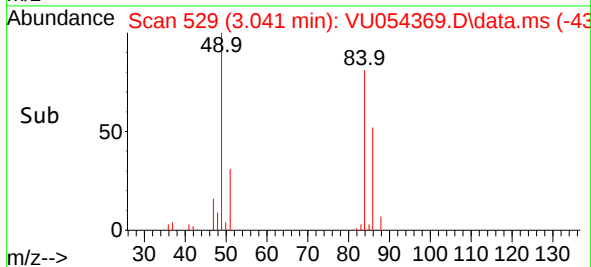
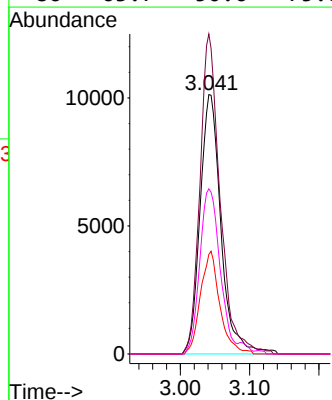
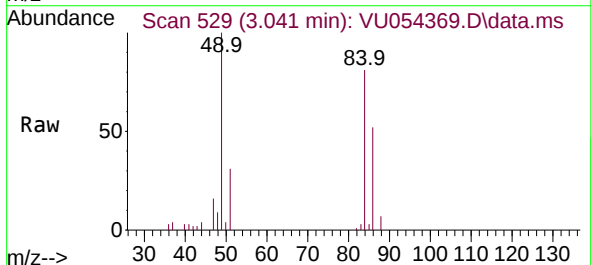
Instrument :
MSVOA_U
ClientSampleId :
TP-4

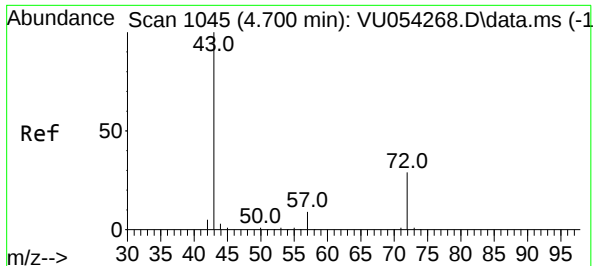
Tgt Ion: 43 Resp: 5432
Ion Ratio Lower Upper
43 100
74 23.3 22.5 33.7



#20
Methylene Chloride
Concen: 6.010 ug/l
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion: 84 Resp: 21206
Ion Ratio Lower Upper
84 100
49 123.4 86.6 129.8
51 38.4 26.6 40.0
86 63.7 50.6 75.8





#25

2-Butanone

Concen: 18.027 ug/l

RT: 4.803 min Scan# 110

Delta R.T. 0.103 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

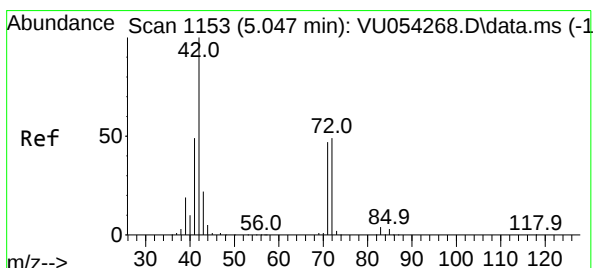
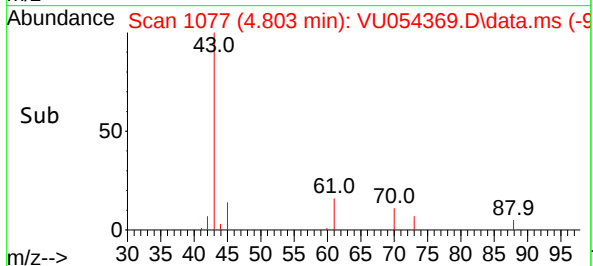
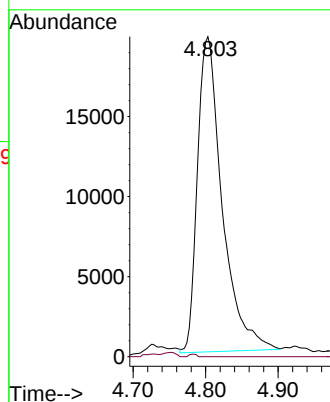
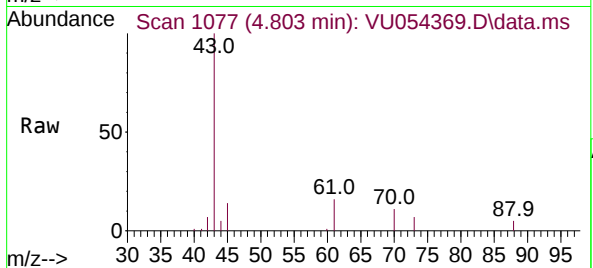
TP-4

Tgt Ion: 43 Resp: 46679

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 5.070 min Scan# 1160

Delta R.T. 0.023 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

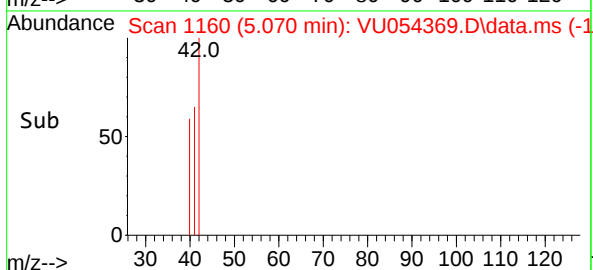
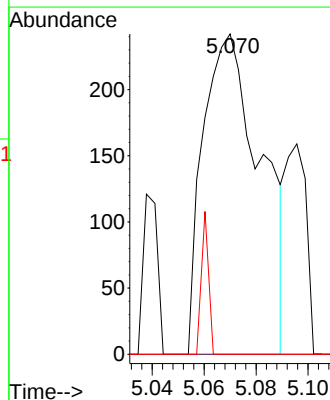
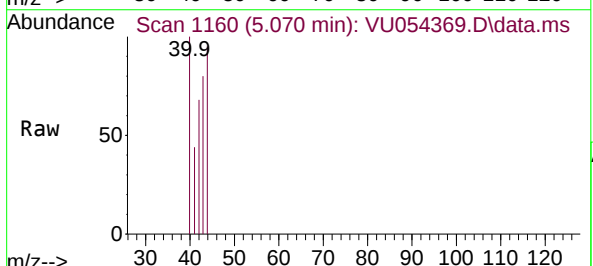
Tgt Ion: 42 Resp: 374

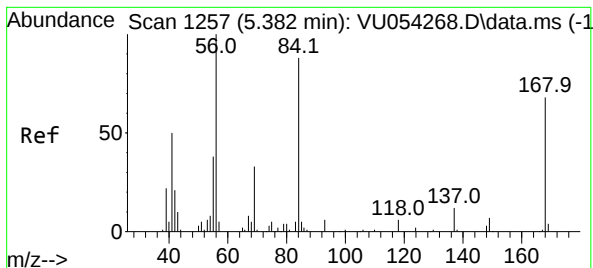
Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

71 5.6 40.3 60.5#





#31

Cyclohexane

Concen: 1.029 ug/l

RT: 5.369 min Scan# 1

Delta R.T. -0.013 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

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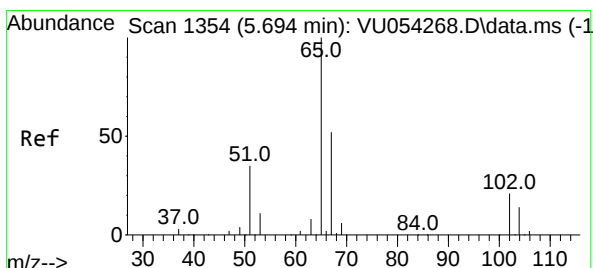
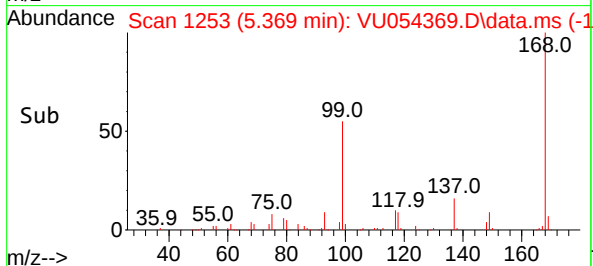
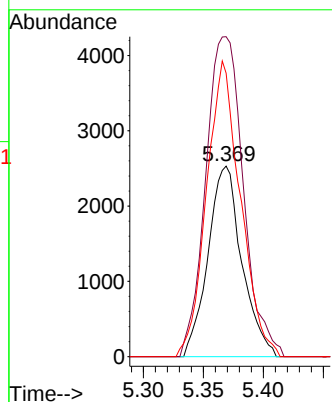
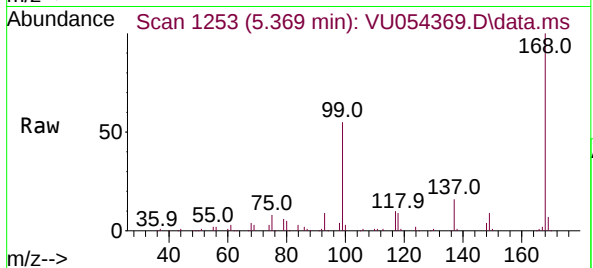
Tgt Ion: 56 Resp: 4959

Ion Ratio Lower Upper

56 100

69 168.0 27.8 41.8#

84 148.9 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 53.913 ug/l

RT: 5.694 min Scan# 1354

Delta R.T. -0.000 min

Lab File: VU054369.D

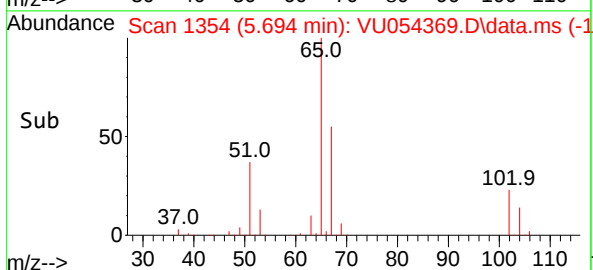
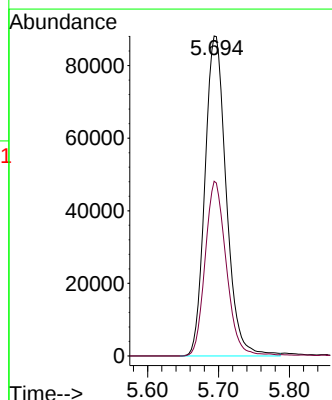
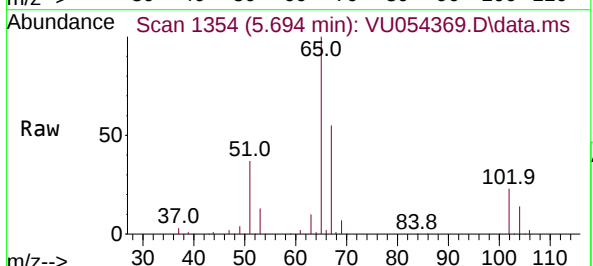
Acq: 01 Jun 2023 04:04

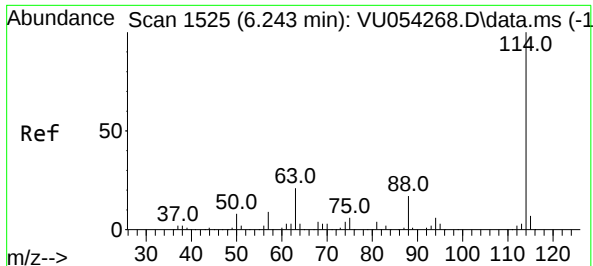
Tgt Ion: 65 Resp: 183947

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 11

Delta R.T. 0.001 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

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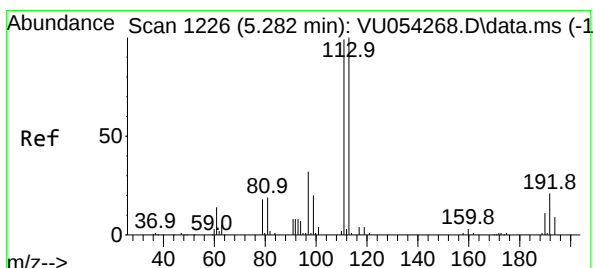
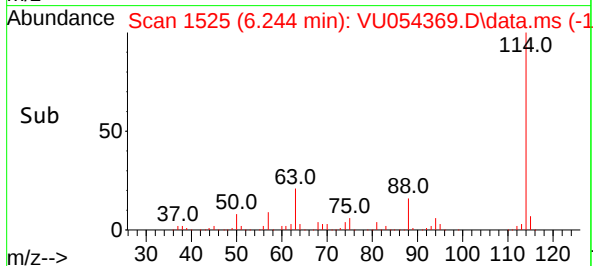
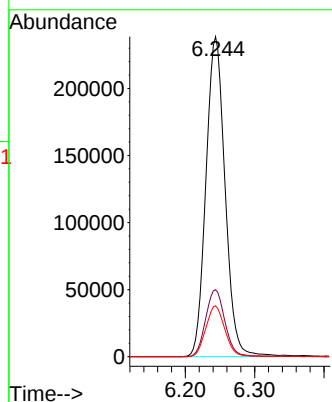
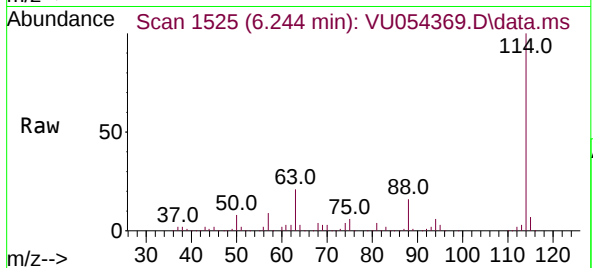
Tgt Ion:114 Resp: 455910

Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 15.9 0.0 29.2



#35

Dibromofluoromethane

Concen: 51.307 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

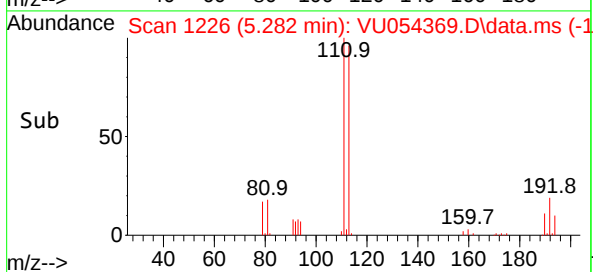
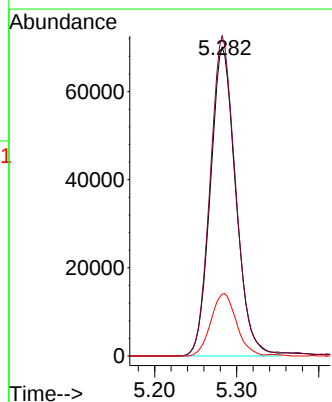
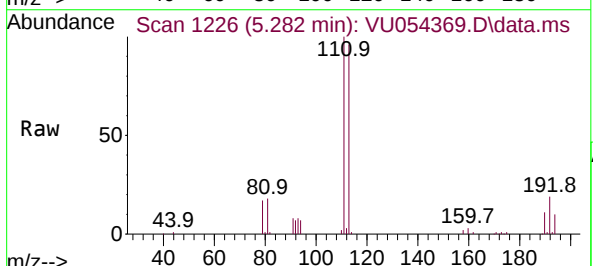
Tgt Ion:113 Resp: 150634

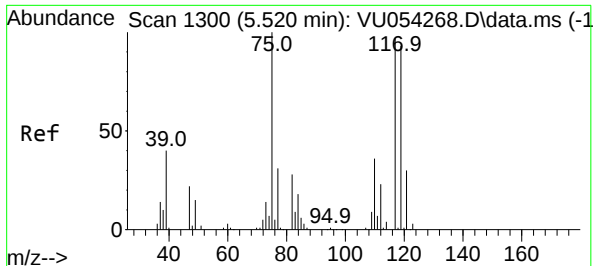
Ion Ratio Lower Upper

113 100

111 103.9 82.1 123.1

192 20.3 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.300 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

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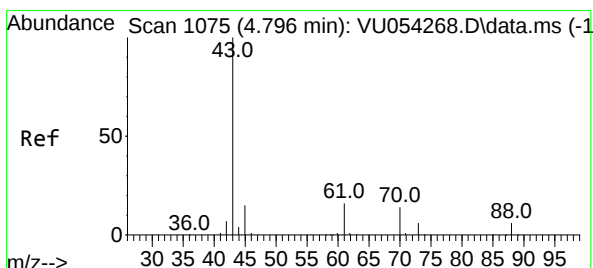
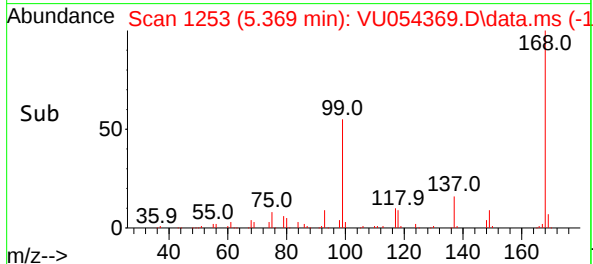
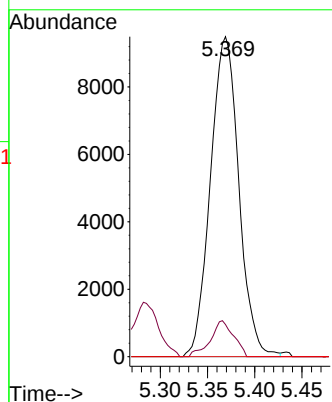
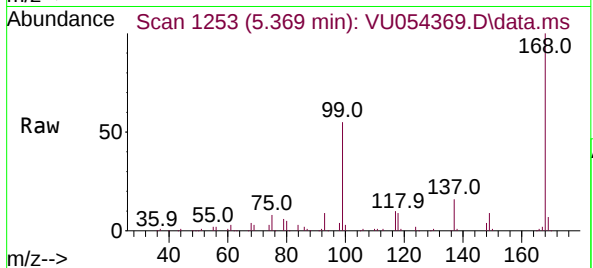
Tgt Ion: 75 Resp: 19831

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 8.306 ug/l

RT: 4.803 min Scan# 1077

Delta R.T. 0.007 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

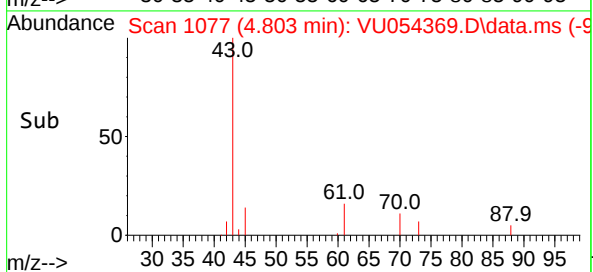
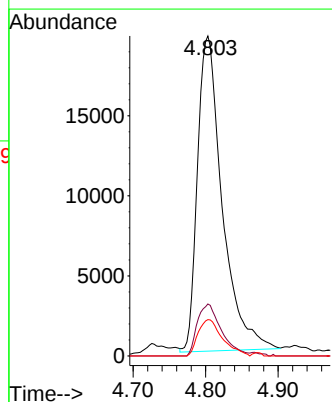
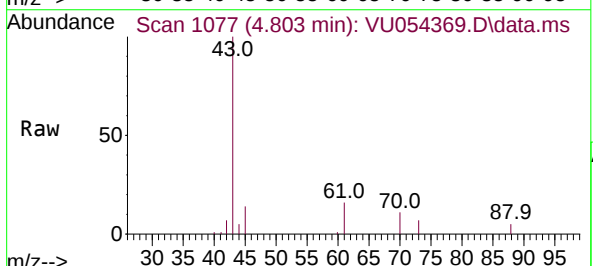
Tgt Ion: 43 Resp: 46679

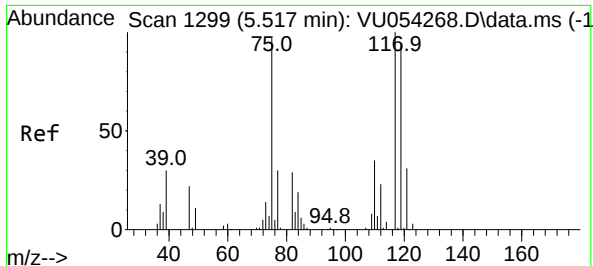
Ion Ratio Lower Upper

43 100

61 16.1 9.5 14.3#

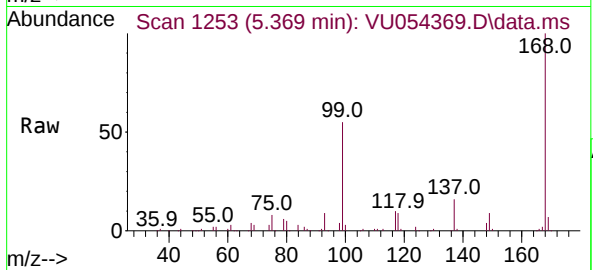
70 11.4 7.5 11.3#



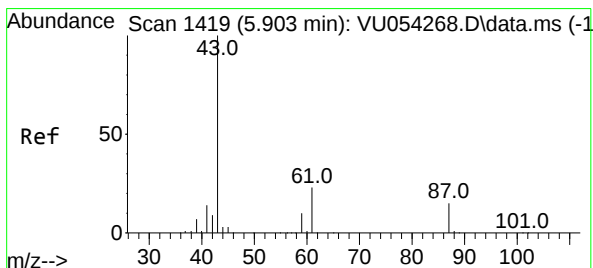
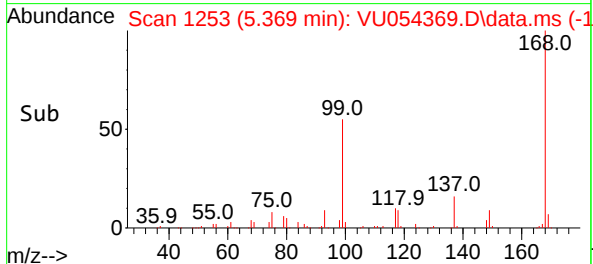
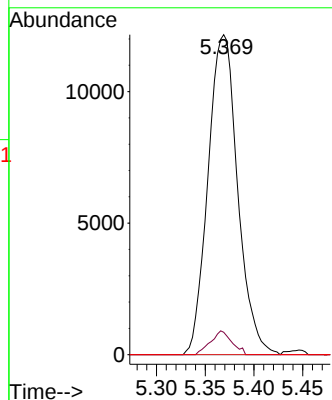


#38
Carbon Tetrachloride
Concen: 5.460 ug/l
RT: 5.369 min Scan# 117
Delta R.T. -0.148 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Instrument :
MSVOA_U
ClientSampleId :
TP-4

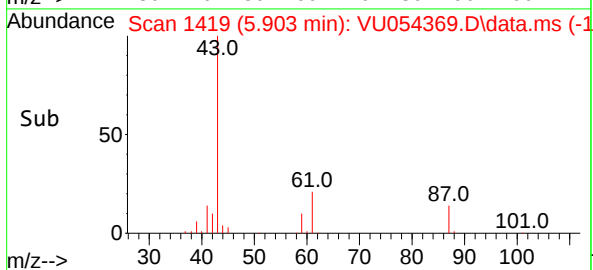
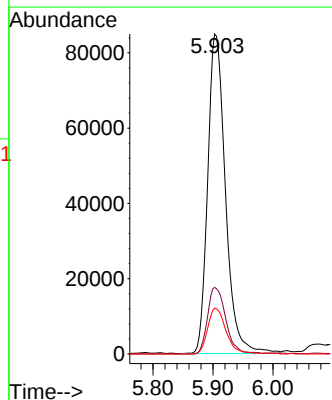
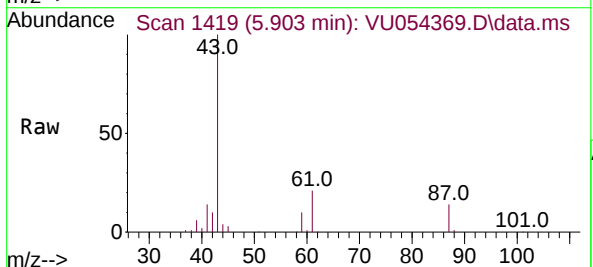


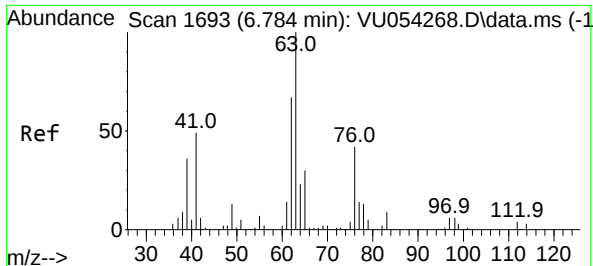
Tgt Ion:117 Resp: 25771
Ion Ratio Lower Upper
117 100
119 7.0 76.8 115.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 22.596 ug/l
RT: 5.903 min Scan# 1419
Delta R.T. -0.000 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion: 43 Resp: 175160
Ion Ratio Lower Upper
43 100
61 21.4 17.4 26.0
87 14.7 12.6 18.8





#45

1,2-Dichloropropane

Concen: 0.796 ug/l

RT: 7.035 min Scan# 1

Delta R.T. 0.251 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

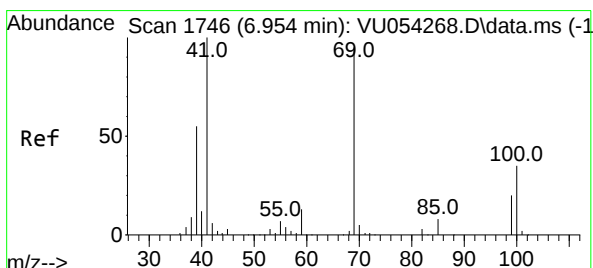
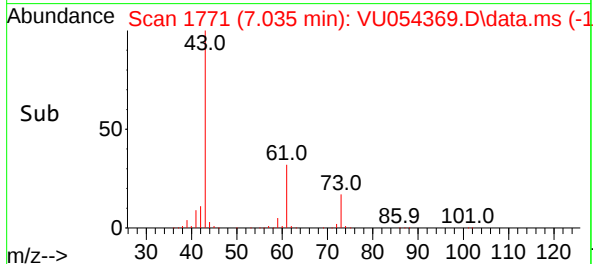
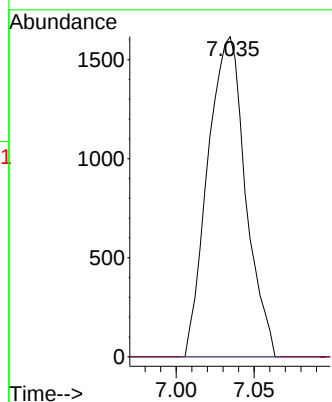
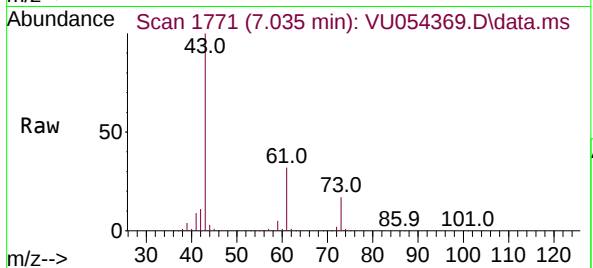
TP-4

Tgt Ion: 63 Resp: 2731

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 1.835 ug/l

RT: 6.903 min Scan# 1730

Delta R.T. -0.051 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

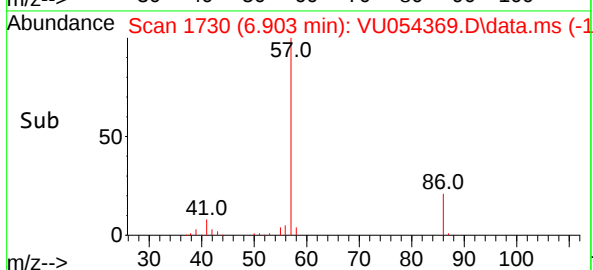
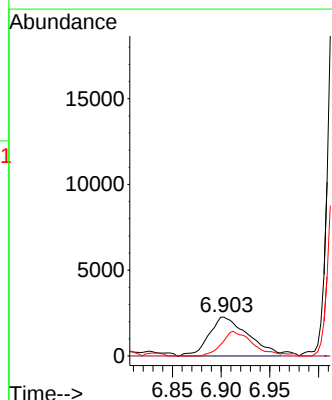
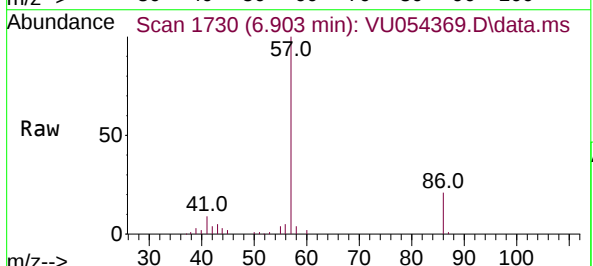
Tgt Ion: 41 Resp: 6308

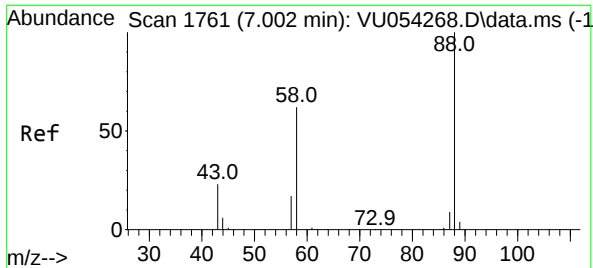
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 50.9 47.9 71.9





#49

1,4-Dioxane

Concen: 1.914 ug/l

RT: 7.031 min Scan# 1

Delta R.T. 0.029 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

TP-4

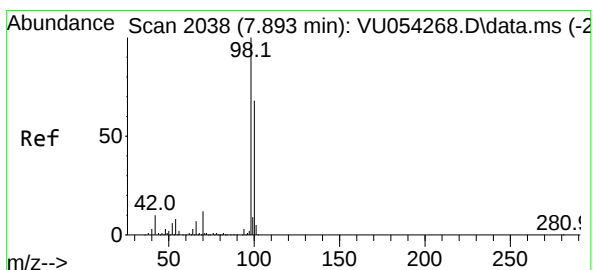
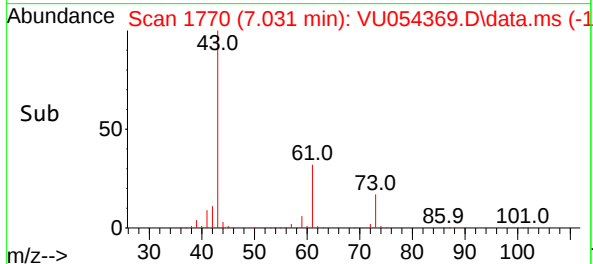
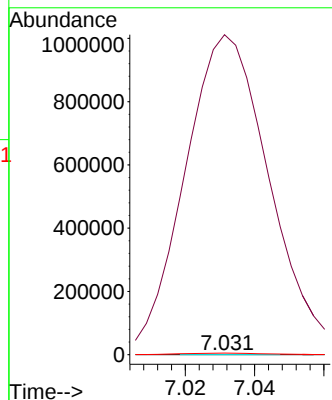
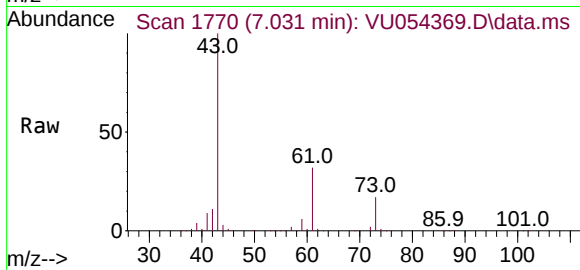
Tgt Ion: 88 Resp: 190

Ion Ratio Lower Upper

88 100

43 932626.8 0.0 0.0#

58 4578.9 15.4 23.0#



#50

Toluene-d8

Concen: 51.429 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. 0.000 min

Lab File: VU054369.D

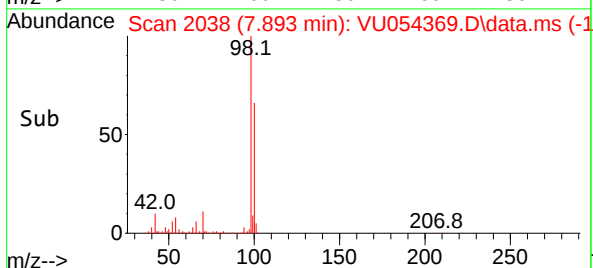
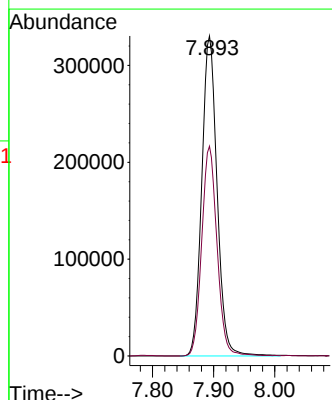
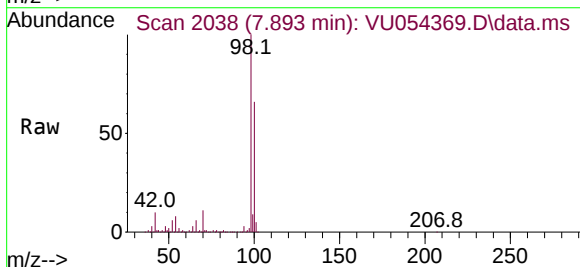
Acq: 01 Jun 2023 04:04

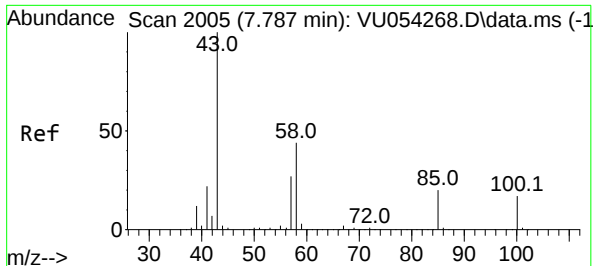
Tgt Ion: 98 Resp: 574335

Ion Ratio Lower Upper

98 100

100 65.5 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.364 ug/l

RT: 7.790 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

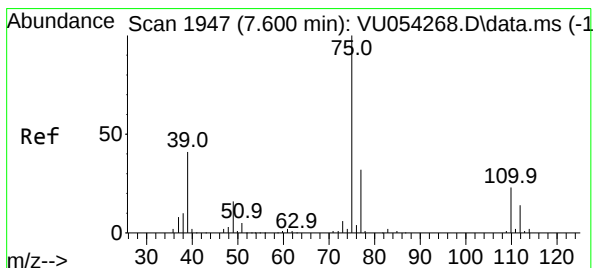
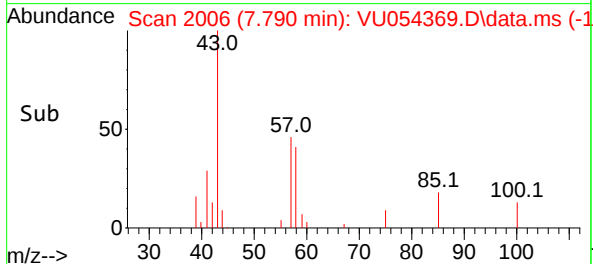
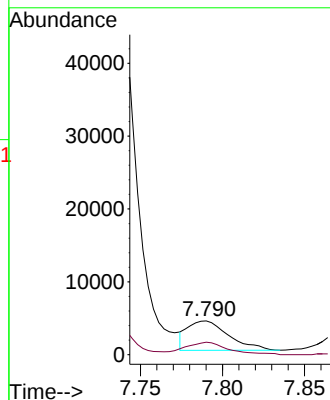
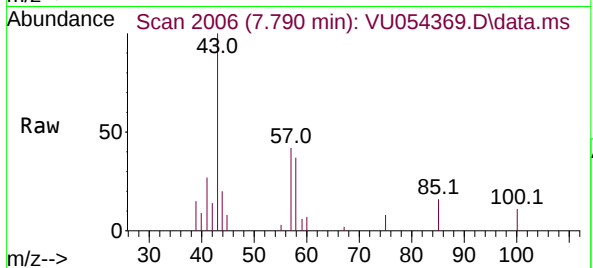
TP-4

Tgt Ion: 43 Resp: 7055

Ion Ratio Lower Upper

43 100

58 44.6 34.7 52.1



#54

cis-1,3-Dichloropropene

Concen: 10.624 ug/l

RT: 7.732 min Scan# 1988

Delta R.T. 0.132 min

Lab File: VU054369.D

Acq: 01 Jun 2023 04:04

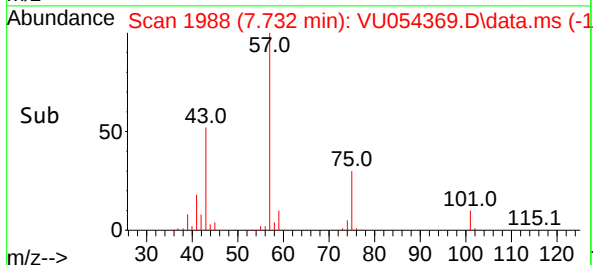
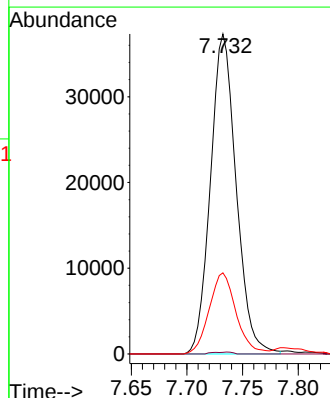
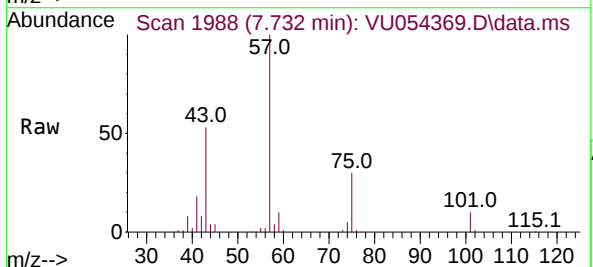
Tgt Ion: 75 Resp: 59918

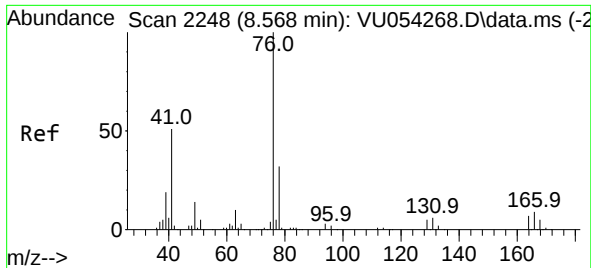
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 25.4 33.0 49.6#

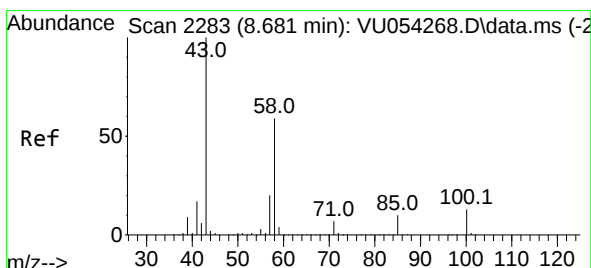
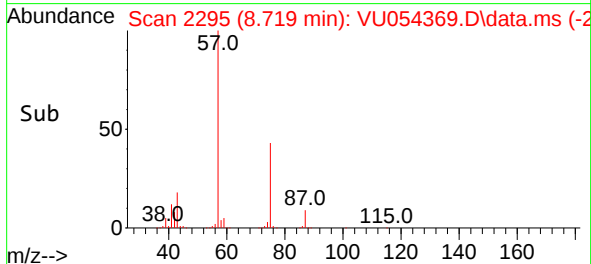
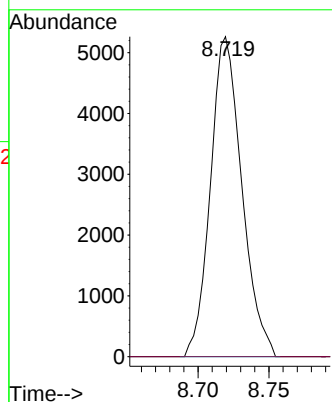
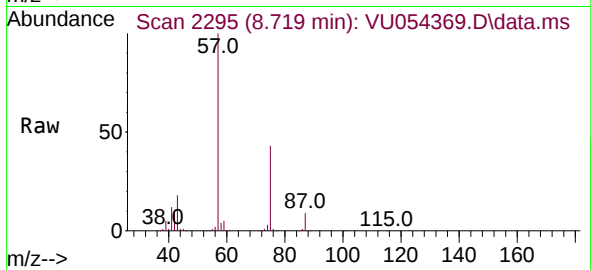




#57
1,3-Dichloropropane
Concen: 1.356 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.151 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

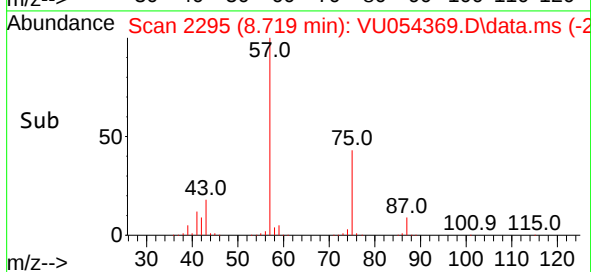
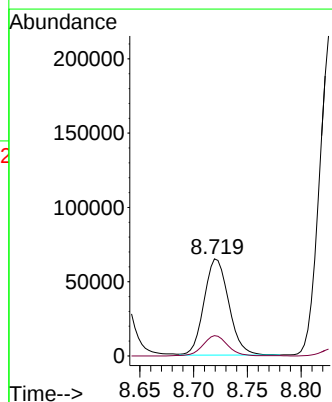
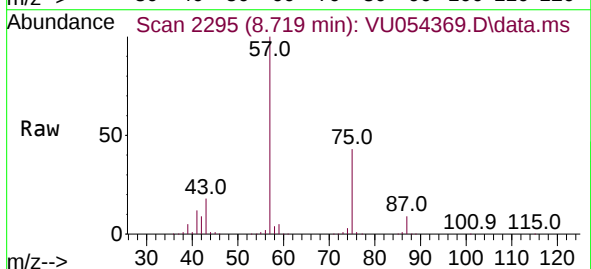
Instrument :
MSVOA_U
ClientSampleId :
TP-4

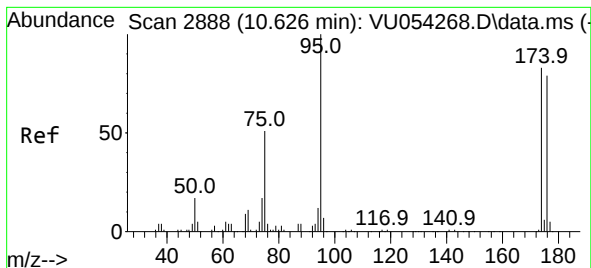
Tgt Ion: 76 Resp: 8114
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 25.265 ug/l
RT: 8.719 min Scan# 2295
Delta R.T. 0.038 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion: 43 Resp: 103247
Ion Ratio Lower Upper
43 100
58 21.3 30.3 90.8#

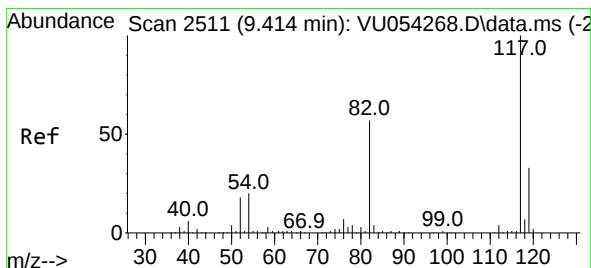
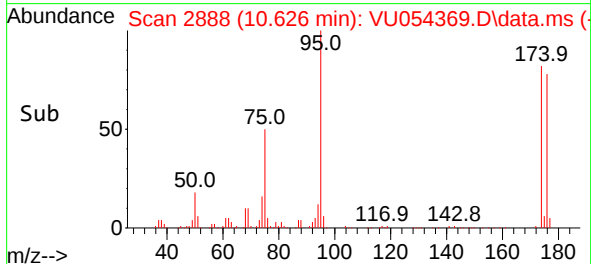
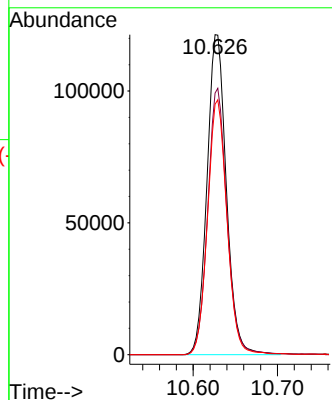
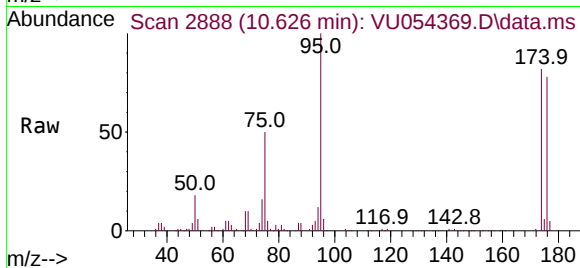




#62
4-Bromofluorobenzene
Concen: 44.867 ug/l
RT: 10.626 min Scan# 2110
Delta R.T. 0.000 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

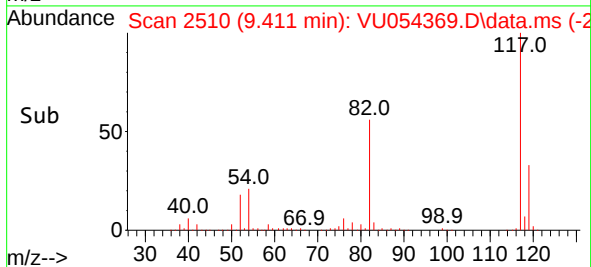
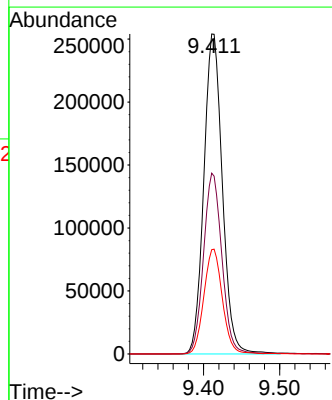
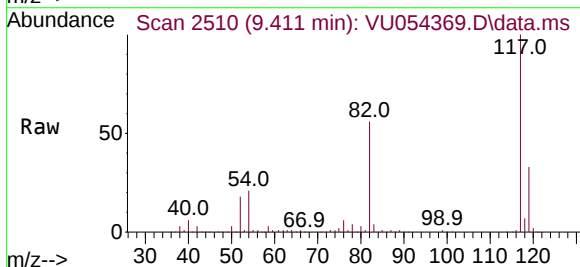
Instrument :
MSVOA_U
ClientSampleId :
TP-4

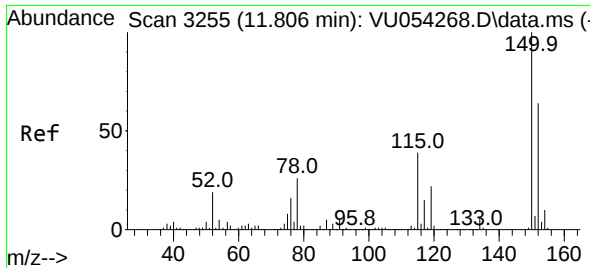
Tgt Ion: 95 Resp: 194277
Ion Ratio Lower Upper
95 100
174 83.1 0.0 182.0
176 79.6 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2510
Delta R.T. -0.003 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

Tgt Ion: 117 Resp: 430530
Ion Ratio Lower Upper
117 100
82 56.4 41.7 62.5
119 32.6 25.7 38.5

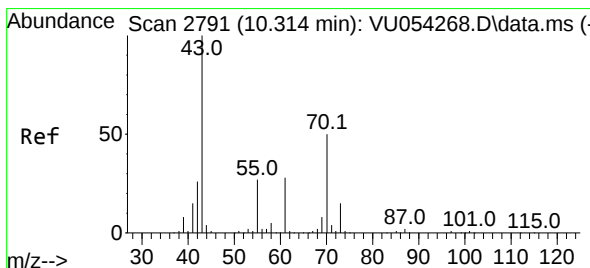
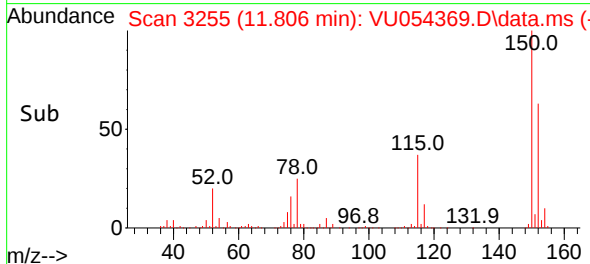
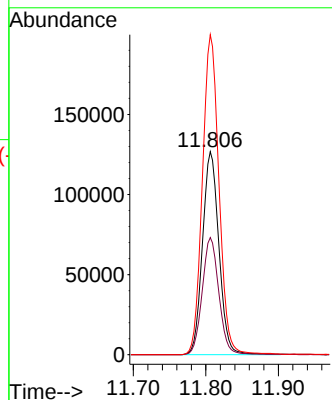
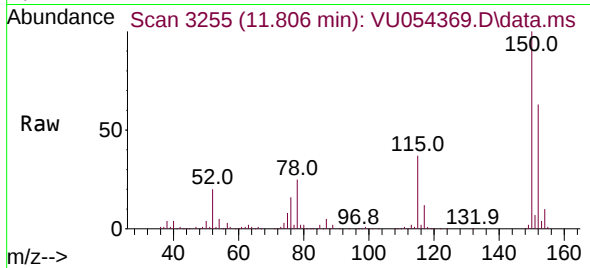




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU054369.D
 Acq: 01 Jun 2023 04:04

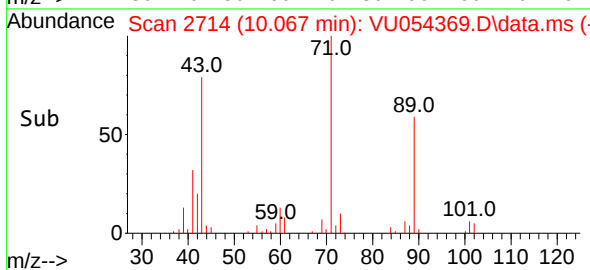
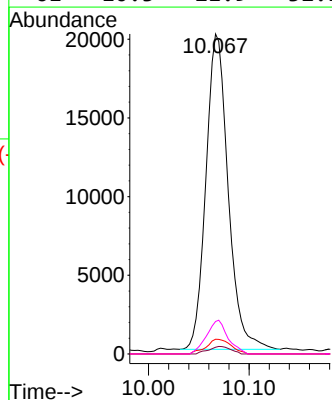
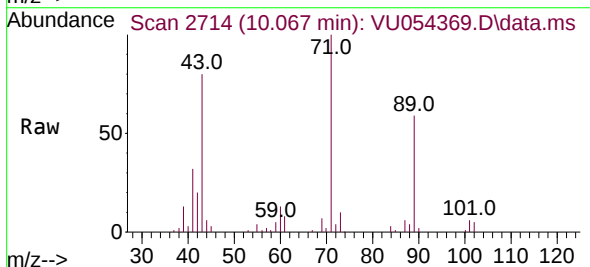
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

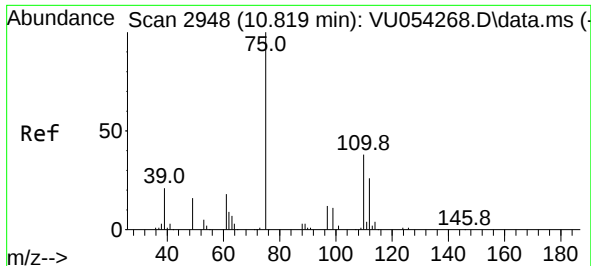
Tgt Ion:152 Resp: 199541
 Ion Ratio Lower Upper
 152 100
 115 58.3 37.0 110.9
 150 158.7 0.0 342.2



#74
 N-ethyl acetate
 Concen: 5.858 ug/l
 RT: 10.067 min Scan# 2714
 Delta R.T. -0.247 min
 Lab File: VU054369.D
 Acq: 01 Jun 2023 04:04

Tgt Ion: 43 Resp: 30736
 Ion Ratio Lower Upper
 43 100
 70 2.4 38.7 58.1#
 55 5.2 21.8 32.8#
 61 10.3 21.9 32.9#

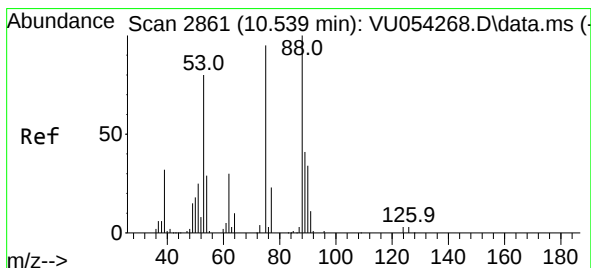
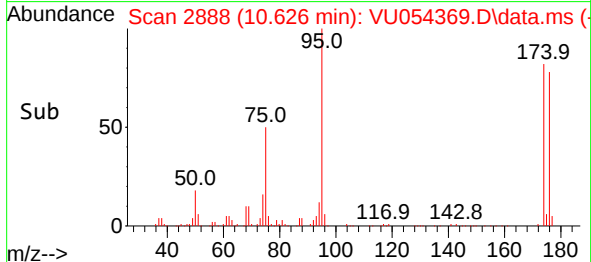
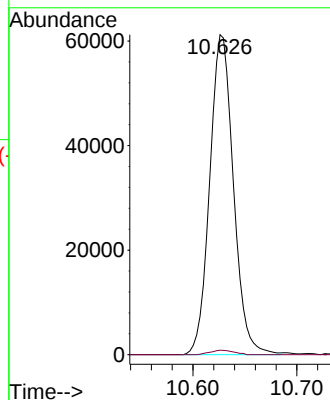
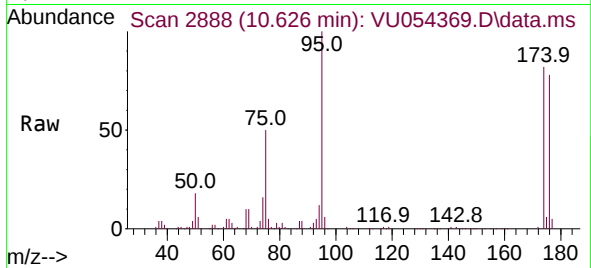




#76
1,2,3-Trichloropropane
Concen: 16.664 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

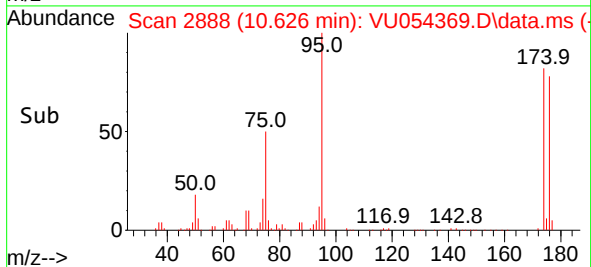
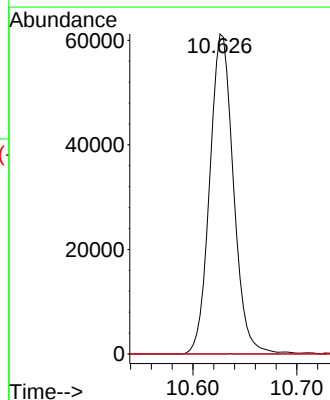
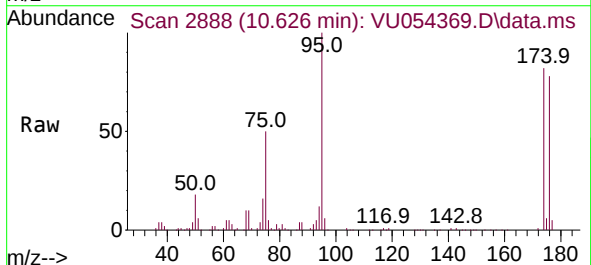
Instrument :
MSVOA_U
ClientSampleId :
TP-4

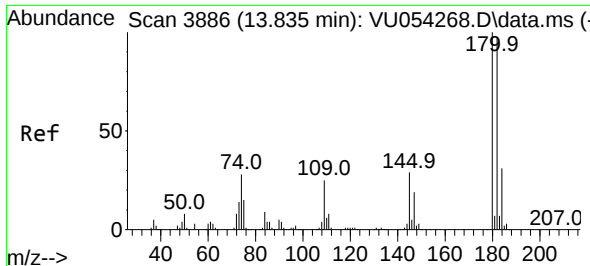
Tgt Ion: 75 Resp: 97047
Ion Ratio Lower Upper
75 100
77 1.4 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.455 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

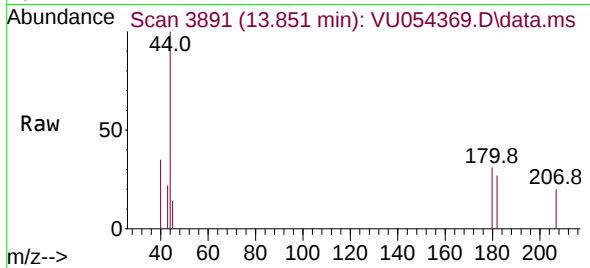
Tgt Ion: 75 Resp: 97047
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



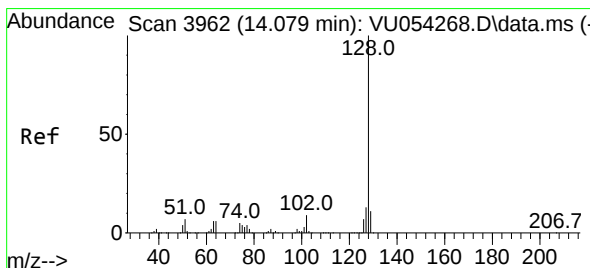
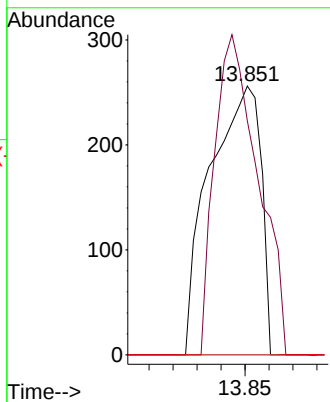
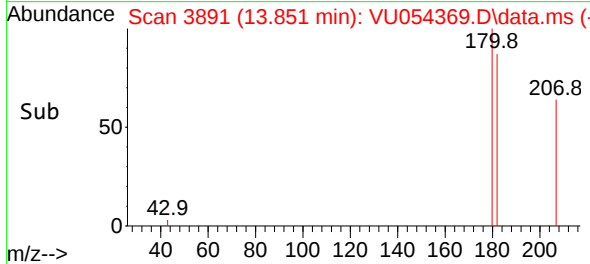


#93
1,2,4-Trichlorobenzene
Concen: 1.723 ug/l
RT: 13.851 min Scan# 3891
Delta R.T. 0.016 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04

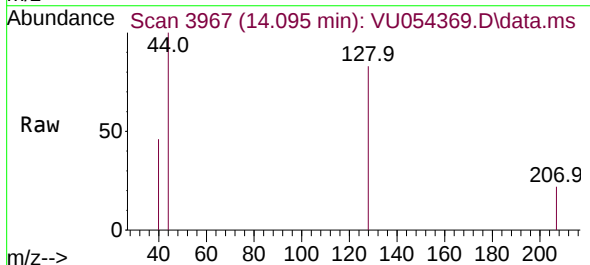
Instrument :
MSVOA_U
ClientSampleId :
TP-4



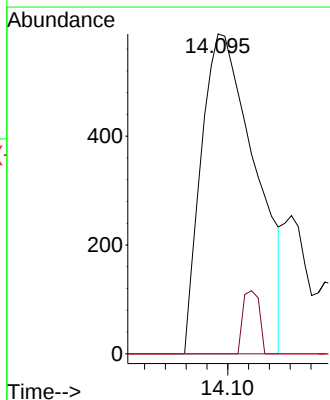
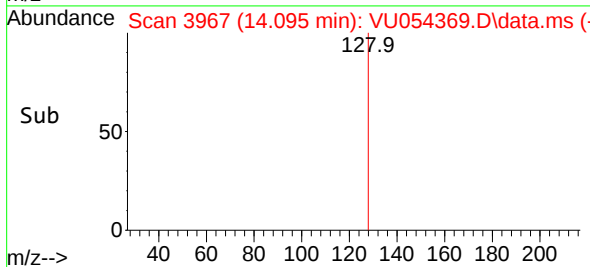
Tgt Ion:180 Resp: 380
Ion Ratio Lower Upper
180 100
182 100.5 47.9 143.6
145 0.0 14.0 41.9#

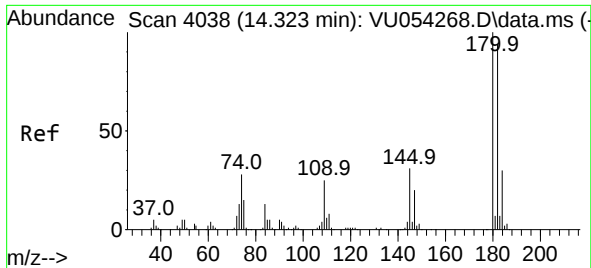


#95
Naphthalene
Concen: 2.060 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054369.D
Acq: 01 Jun 2023 04:04



Tgt Ion:128 Resp: 1061
Ion Ratio Lower Upper
128 100
127 5.9 10.3 15.5#
129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.298 ug/l

RT: 14.333 min Scan# 40

Delta R.T. 0.010 min

Lab File: VU054369.D

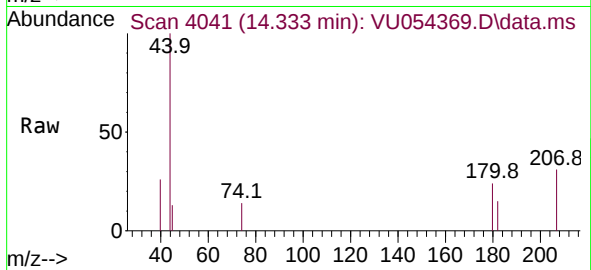
Acq: 01 Jun 2023 04:04

Instrument :

MSVOA_U

ClientSampleId :

TP-4



Tgt Ion:180 Resp: 201

Ion Ratio Lower Upper

180 100

182 81.1 48.4 145.0

145 0.0 14.8 44.4#

