

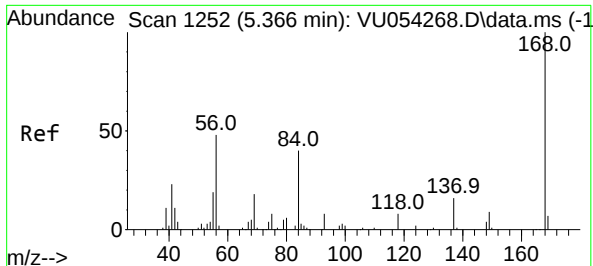
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054346.D
 Acq On : 31 May 2023 18:35
 Operator : JC/MD
 Sample : PB153123ZHE#05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#05

Quant Time: Jun 01 05:24:42 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	246881	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	436063	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	413118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	195444	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	172294	53.237	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 106.480%		
35) Dibromofluoromethane	5.282	113	141510	50.393	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.780%		
50) Toluene-d8	7.893	98	537824	50.352	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 100.700%		
62) 4-Bromofluorobenzene	10.629	95	185489	44.787	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 89.580%		
Target Compounds						Qvalue
10) Methyl Iodide	2.726	142	80	2.356	ug/l #	43
11) Tert butyl alcohol	3.176	59	1304	1.492	ug/l #	37
16) Acetone	2.623	43	24850	13.395	ug/l	99
18) Methyl Acetate	2.951	43	6899	1.019	ug/l	89
20) Methylene Chloride	3.041	84	21447	6.408	ug/l	95
25) 2-Butanone	4.719	43	4574	1.862	ug/l #	81
31) Cyclohexane	5.366	56	5087	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	17694	4.012	ug/l #	49
37) Ethyl Acetate	4.800	43	44167	8.217	ug/l #	93
38) Carbon Tetrachloride	5.366	117	24194	5.359	ug/l #	16
43) Isopropyl Acetate	5.906	43	164091	22.131	ug/l	98
45) 1,2-Dichloropropane	7.031	63	2083	0.635	ug/l #	43
48) Methyl methacrylate	6.899	41	5732	1.743	ug/l #	33
49) 1,4-Dioxane	7.031	88	217	2.286	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	7342	1.484	ug/l	99
54) cis-1,3-Dichloropropene	7.732	75	58489	10.843	ug/l #	62
57) 1,3-Dichloropropane	8.719	76	8360	1.460	ug/l #	42
59) 2-Hexanone	8.719	43	101926	26.077	ug/l #	50
74) N-amyl acetate	10.066	43	34249	6.664	ug/l #	48
76) 1,2,3-Trichloropropane	10.629	75	91608	16.060	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.629	75	91608	61.154	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.844	180	155	1.677	ug/l #	49
95) Naphthalene	14.105	128	822	2.046	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.330	180	214	1.302	ug/l #	60

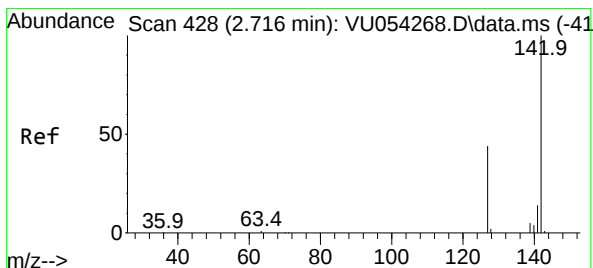
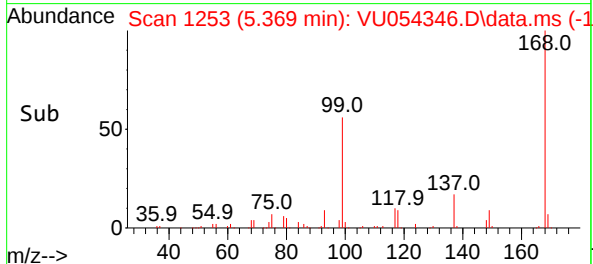
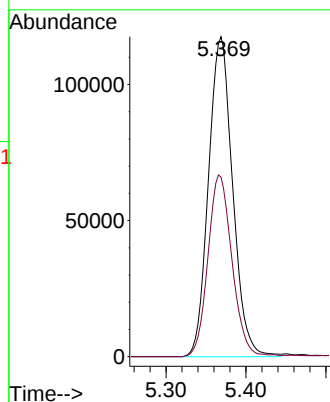
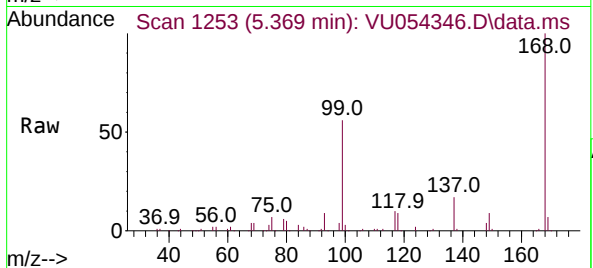
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

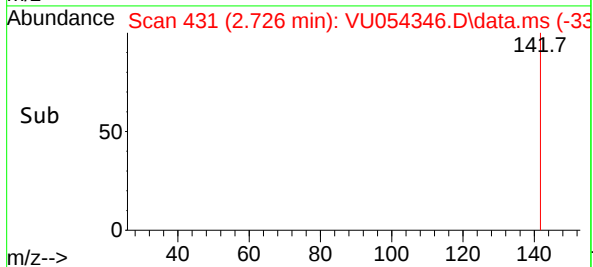
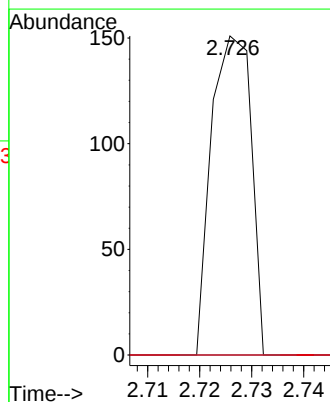
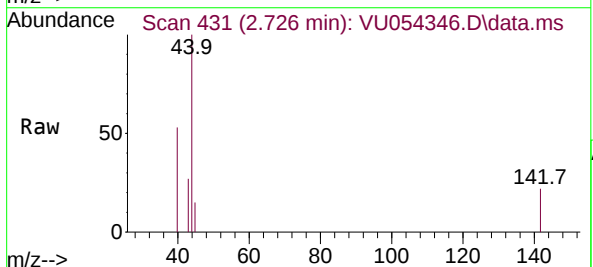
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

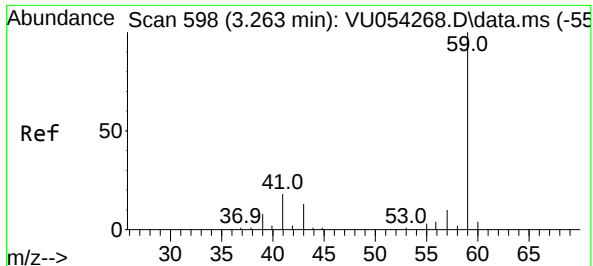
Tgt Ion:168 Resp: 246881
Ion Ratio Lower Upper
168 100
99 56.1 39.3 58.9



#10
Methyl Iodide
Concen: 2.356 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.010 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion:142 Resp: 80
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

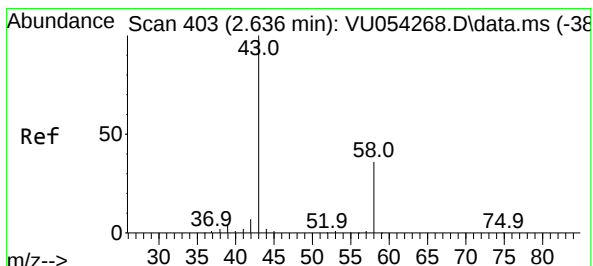
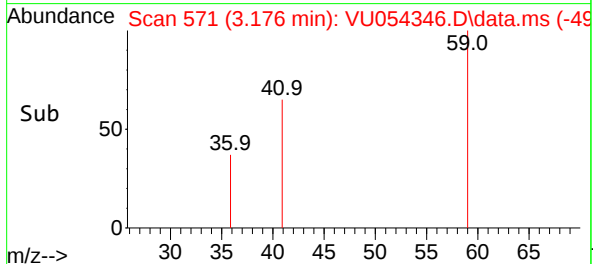
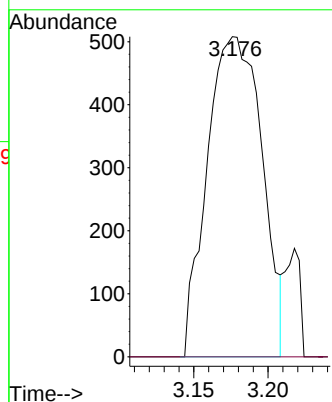
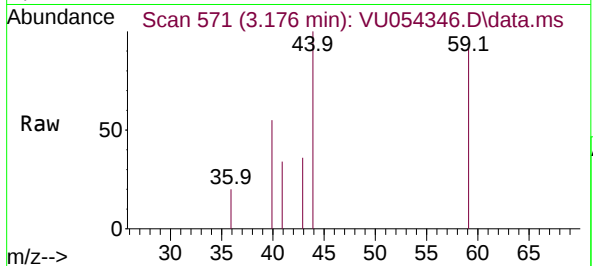




#11
Tert butyl alcohol
Concen: 1.492 ug/l
RT: 3.176 min Scan# 51
Delta R.T. -0.067 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

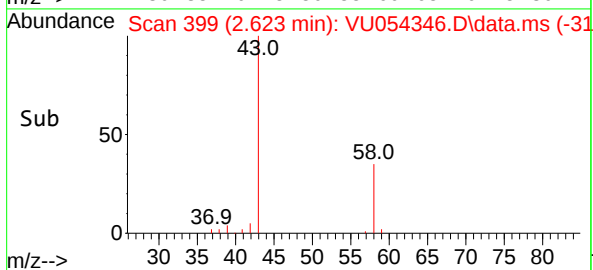
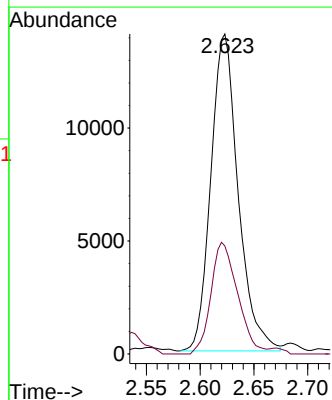
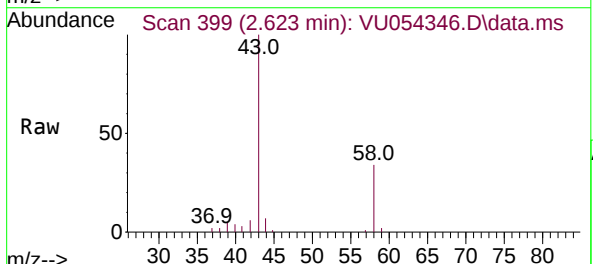
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

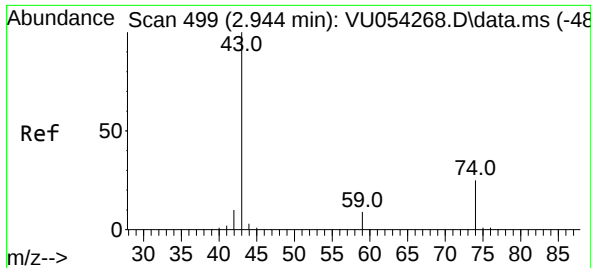
Tgt Ion: 59 Resp: 1304
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#16
Acetone
Concen: 13.395 ug/l
RT: 2.623 min Scan# 399
Delta R.T. -0.013 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 43 Resp: 24850
Ion Ratio Lower Upper
43 100
58 34.1 27.5 41.3

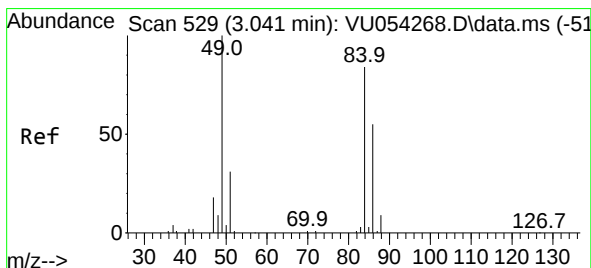
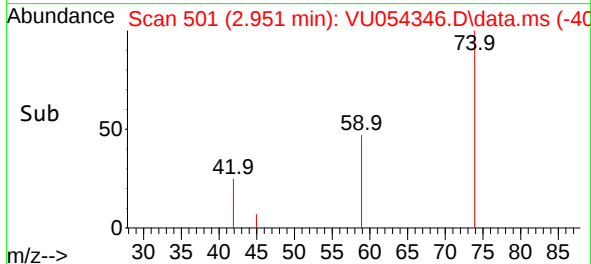
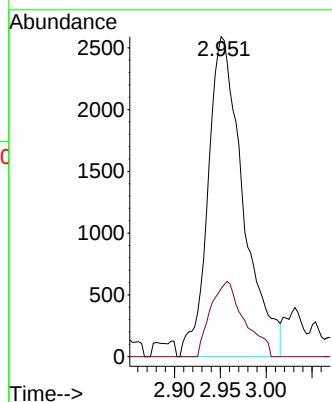
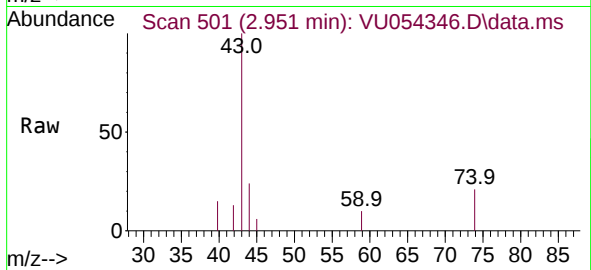




#18
Methyl Acetate
Concen: 1.019 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.007 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

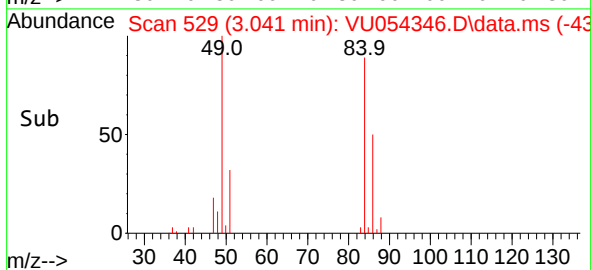
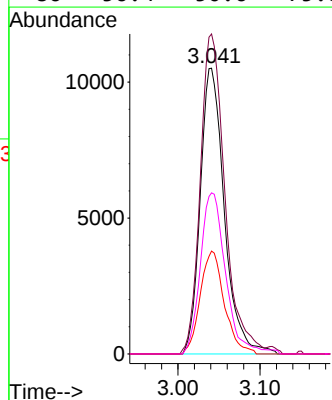
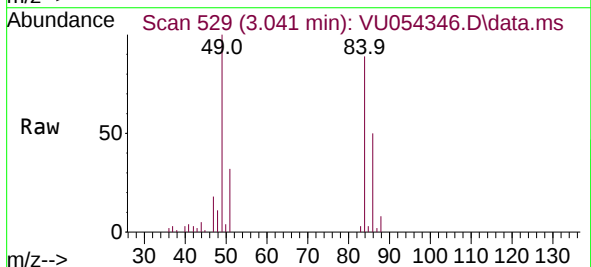
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

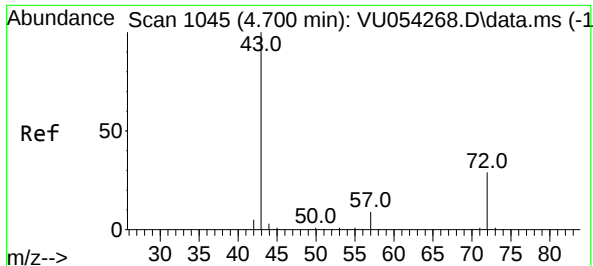
Tgt Ion: 43 Resp: 6899
Ion Ratio Lower Upper
43 100
74 22.5 22.5 33.7



#20
Methylene Chloride
Concen: 6.408 ug/l
RT: 3.041 min Scan# 529
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 84 Resp: 21447
Ion Ratio Lower Upper
84 100
49 112.0 86.6 129.8
51 36.0 26.6 40.0
86 56.4 50.6 75.8





#25

2-Butanone

Concen: 1.862 ug/l

RT: 4.719 min Scan# 1051

Delta R.T. 0.019 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

Instrument :

MSVOA_U

ClientSampleId :

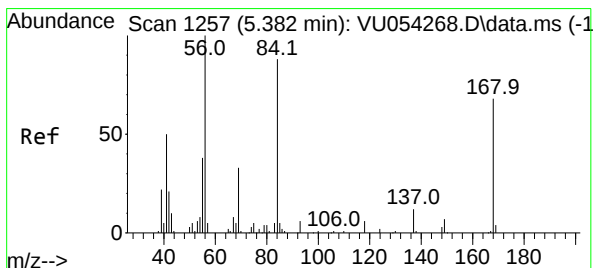
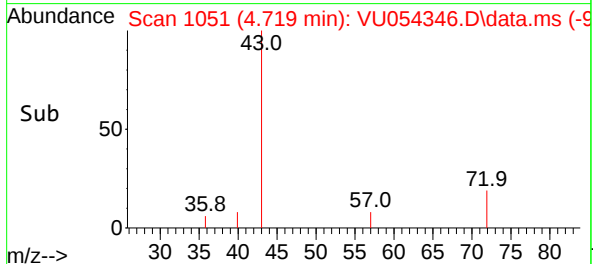
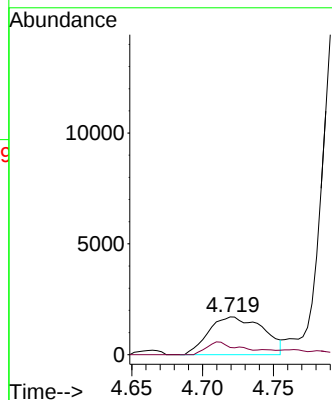
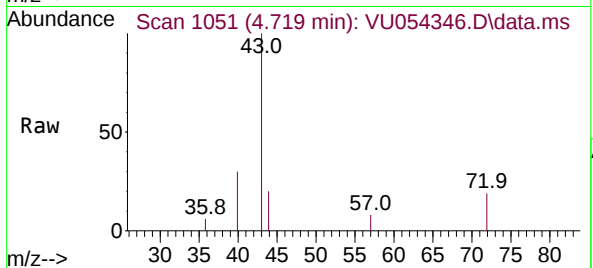
PB153123ZHE#05

Tgt Ion: 43 Resp: 4574

Ion Ratio Lower Upper

43 100

72 19.3 23.8 35.6#



#31

Cyclohexane

Concen: 1.113 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.016 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

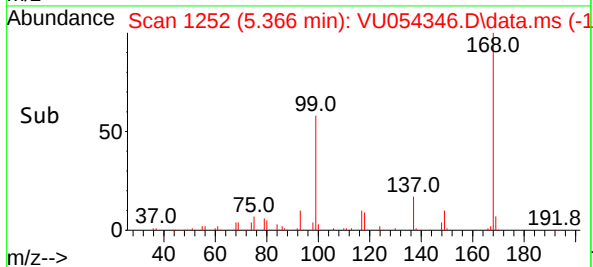
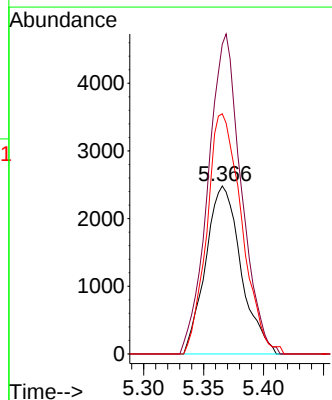
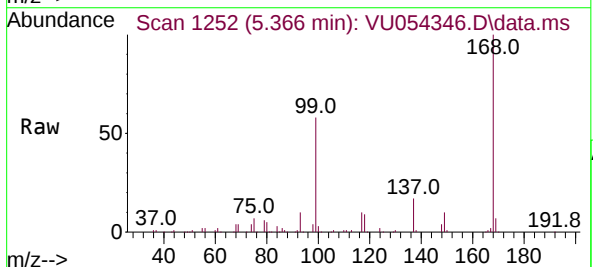
Tgt Ion: 56 Resp: 5087

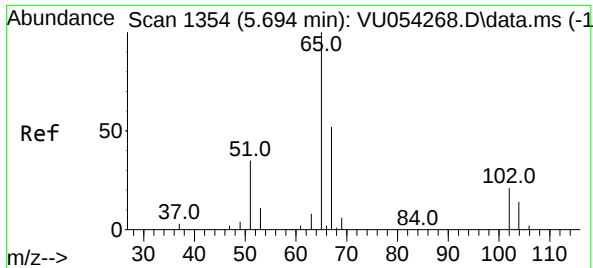
Ion Ratio Lower Upper

56 100

69 184.4 27.8 41.8#

84 142.9 74.2 111.4#

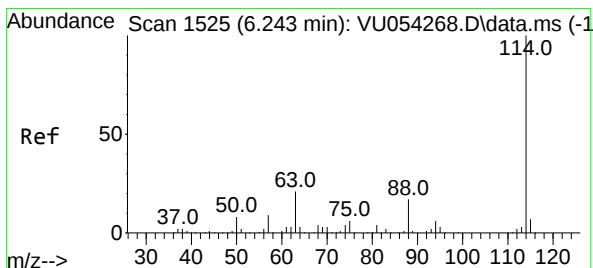
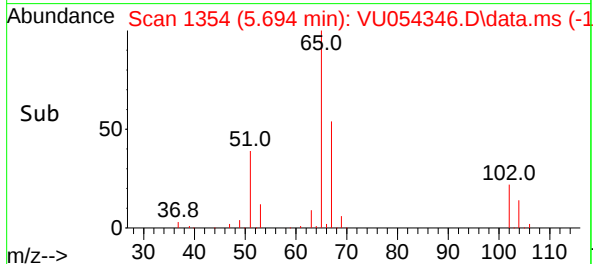
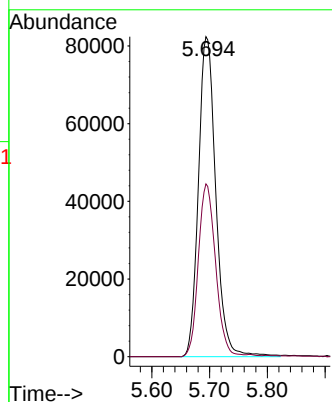
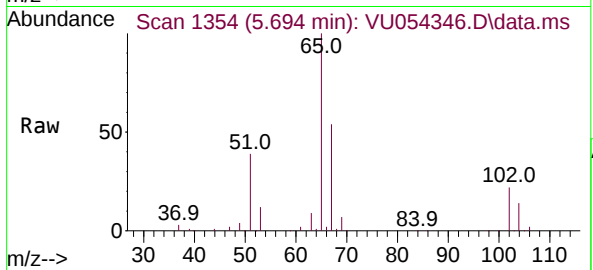




#33
 1,2-Dichloroethane-d4
 Concen: 53.237 ug/l
 RT: 5.694 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VU054346.D
 Acq: 31 May 2023 18:35

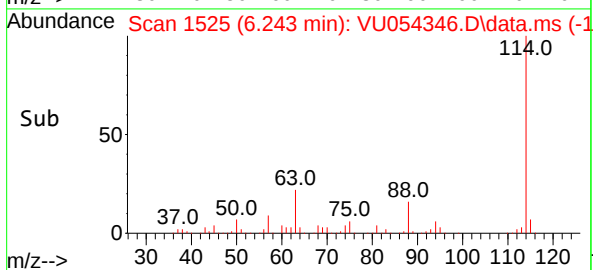
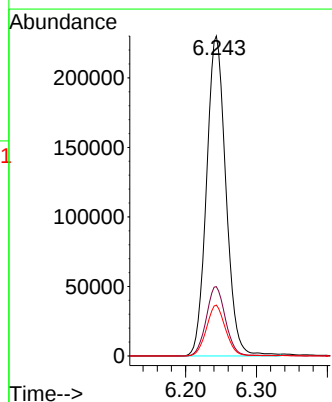
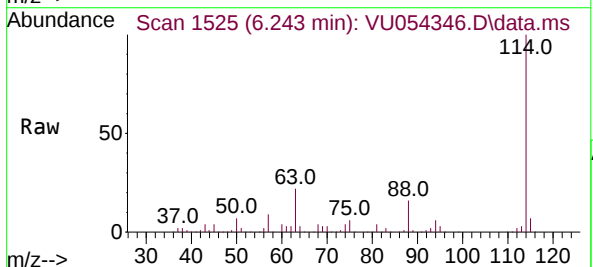
Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#05

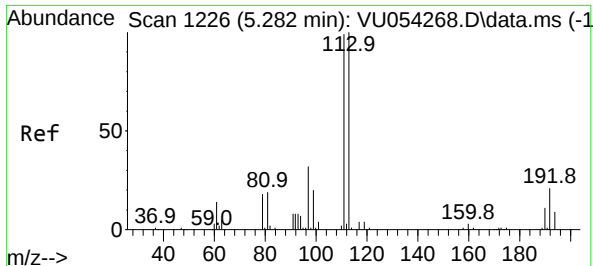
Tgt Ion: 65 Resp: 172294
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.243 min Scan# 1525
 Delta R.T. 0.000 min
 Lab File: VU054346.D
 Acq: 31 May 2023 18:35

Tgt Ion:114 Resp: 436063
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 37.8
 88 15.9 0.0 29.2

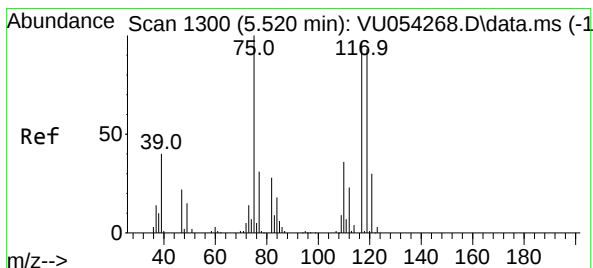
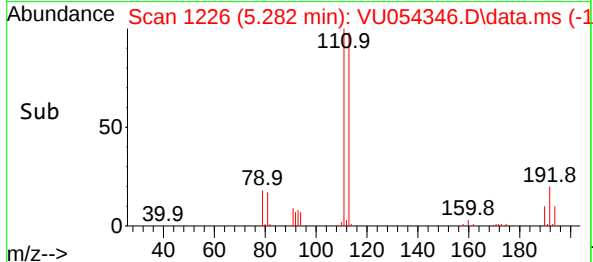
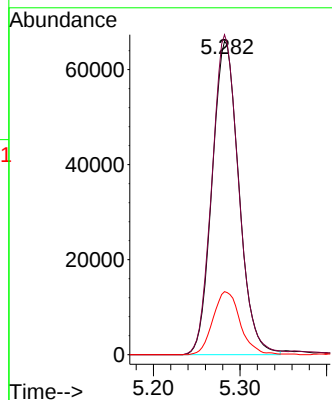
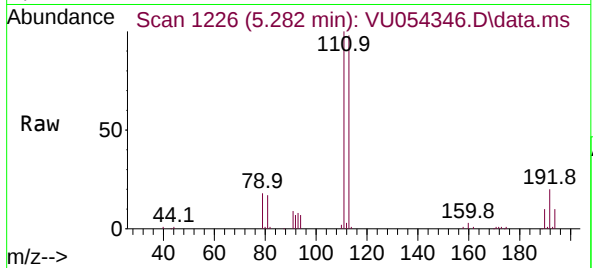




#35
Dibromofluoromethane
Concen: 50.393 ug/l
RT: 5.282 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

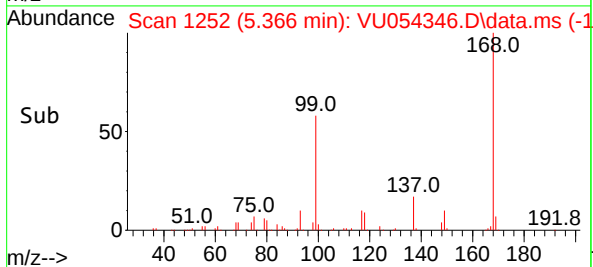
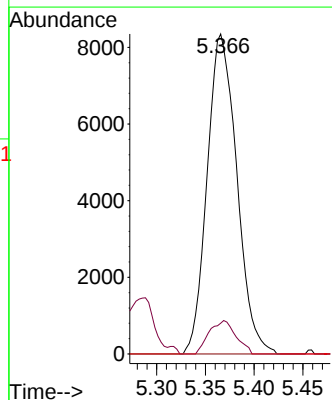
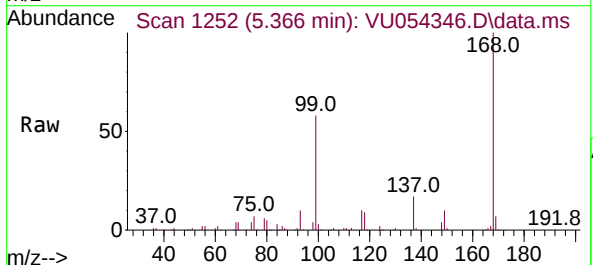
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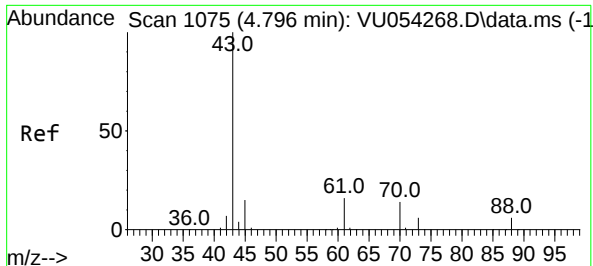
Tgt Ion:113 Resp: 141510
Ion Ratio Lower Upper
113 100
111 101.9 82.1 123.1
192 20.5 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.012 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 75 Resp: 17694
Ion Ratio Lower Upper
75 100
110 9.4 18.4 55.2#
77 0.0 25.1 37.7#

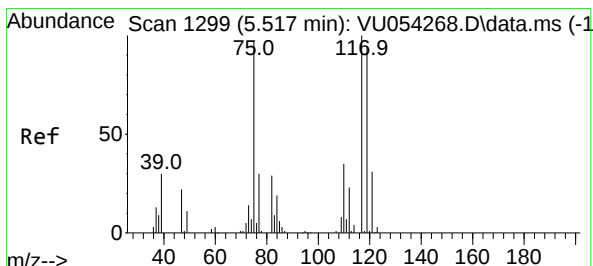
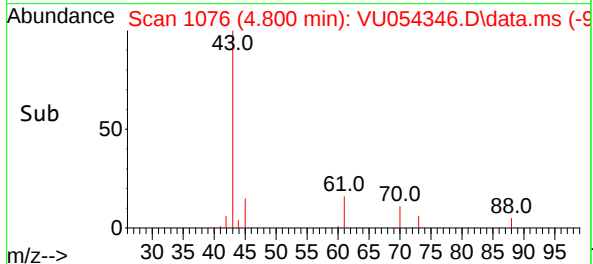
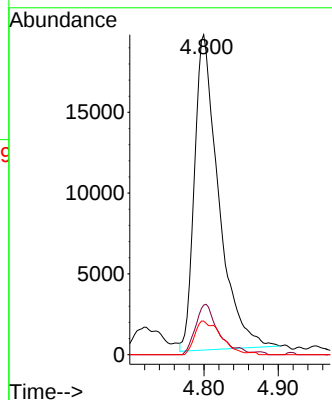
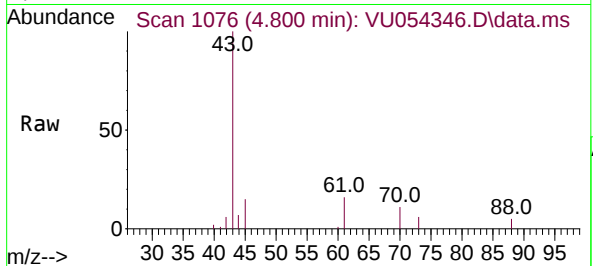




#37
Ethyl Acetate
Concen: 8.217 ug/l
RT: 4.800 min Scan# 1076
Delta R.T. 0.004 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

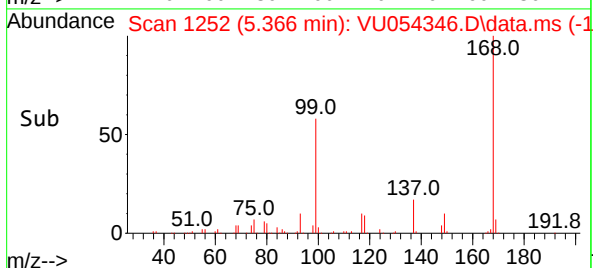
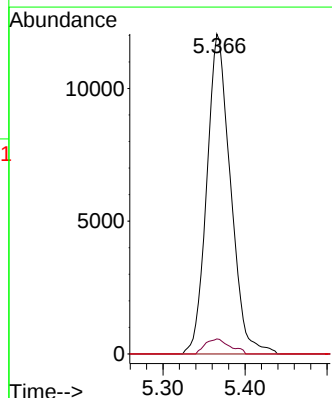
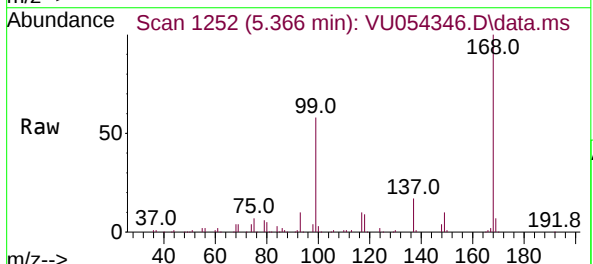
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

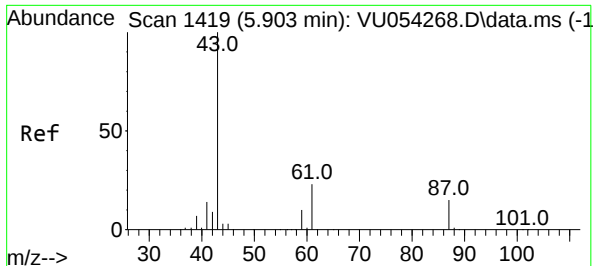
Tgt Ion: 43 Resp: 44167
Ion Ratio Lower Upper
43 100
61 15.3 9.5 14.3#
70 11.6 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.359 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.151 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 117 Resp: 24194
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 22.131 ug/l

RT: 5.906 min Scan# 1419

Delta R.T. 0.003 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#05

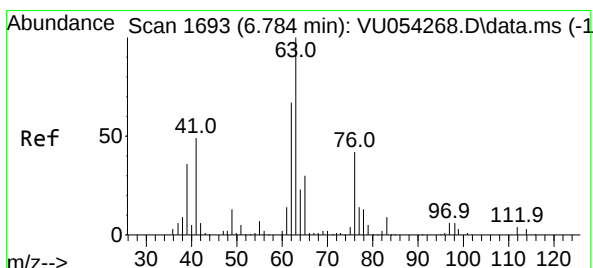
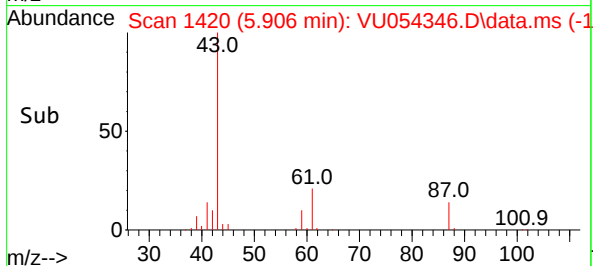
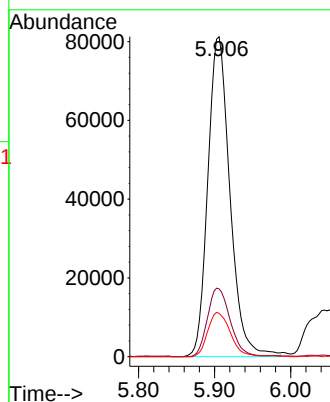
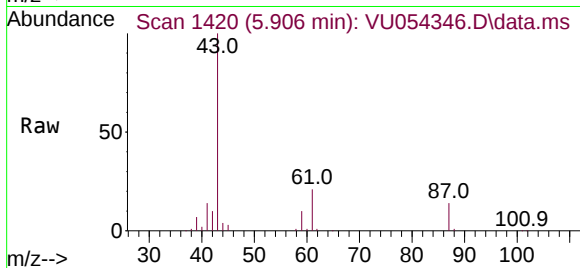
Tgt Ion: 43 Resp: 164091

Ion Ratio Lower Upper

43 100

61 22.0 17.4 26.0

87 14.3 12.6 18.8



#45

1,2-Dichloropropane

Concen: 0.635 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.247 min

Lab File: VU054346.D

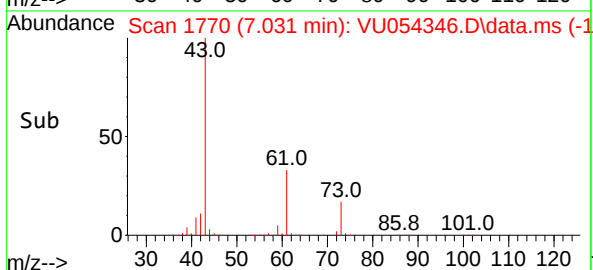
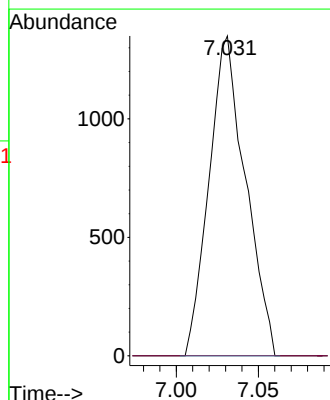
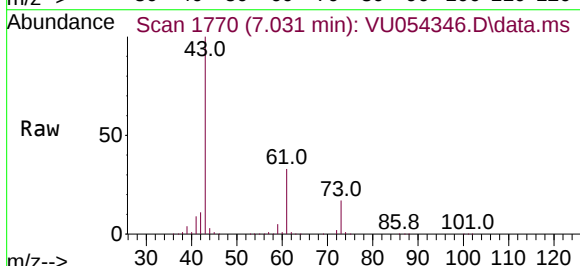
Acq: 31 May 2023 18:35

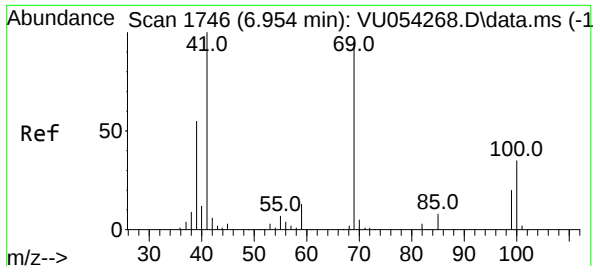
Tgt Ion: 63 Resp: 2083

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 1.743 ug/l

RT: 6.899 min Scan# 1

Delta R.T. -0.055 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#05

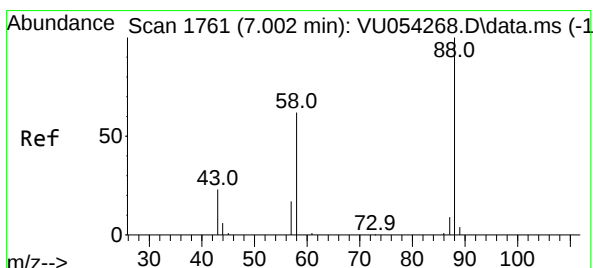
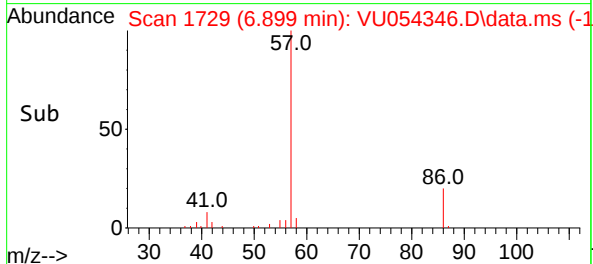
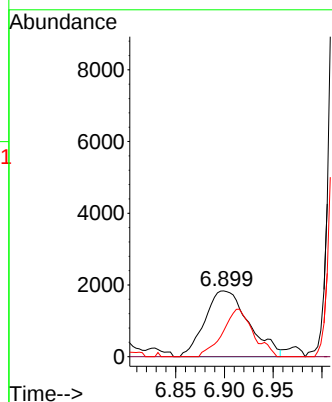
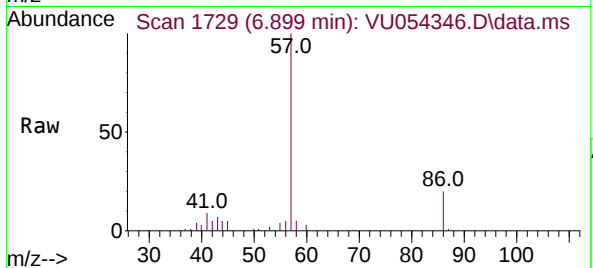
Tgt Ion: 41 Resp: 5732

Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 50.2 47.9 71.9



#49

1,4-Dioxane

Concen: 2.286 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.029 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

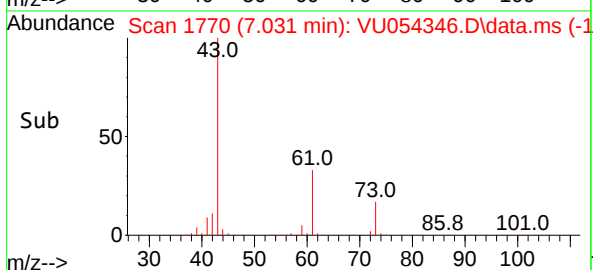
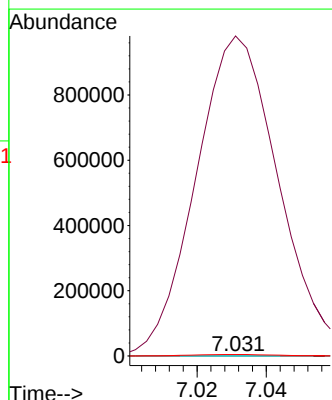
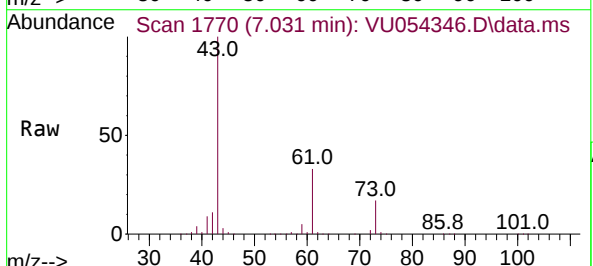
Tgt Ion: 88 Resp: 217

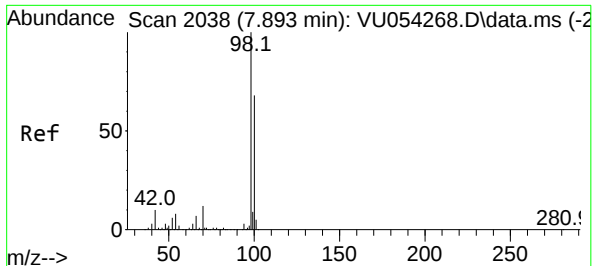
Ion Ratio Lower Upper

88 100

43 772671.0 0.0 0.0#

58 3861.3 15.4 23.0#

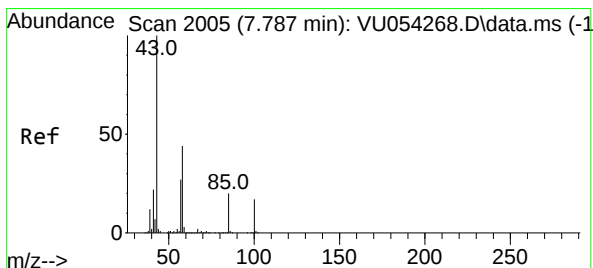
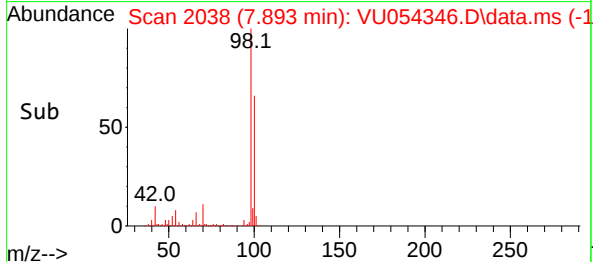
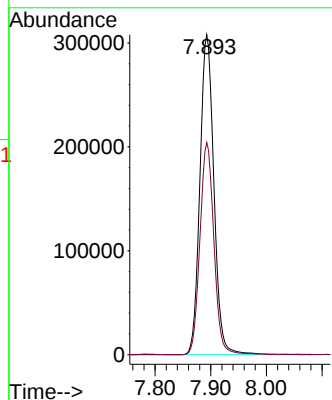
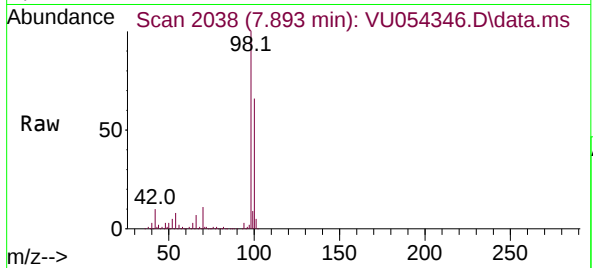




#50
Toluene-d8
Concen: 50.352 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

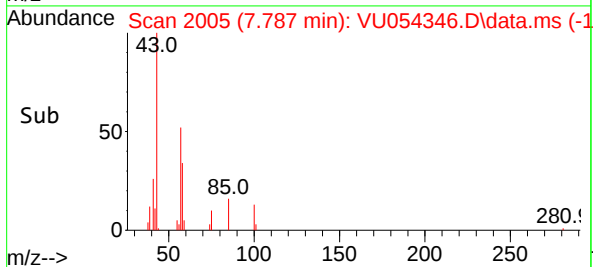
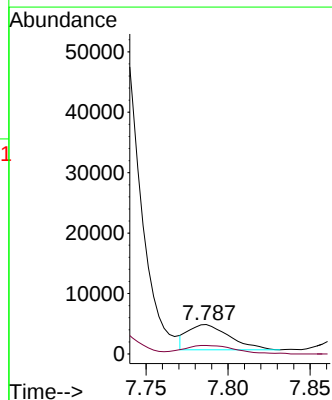
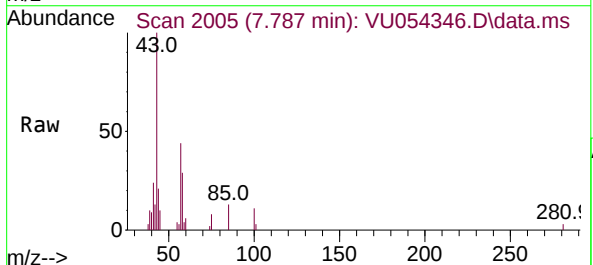
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

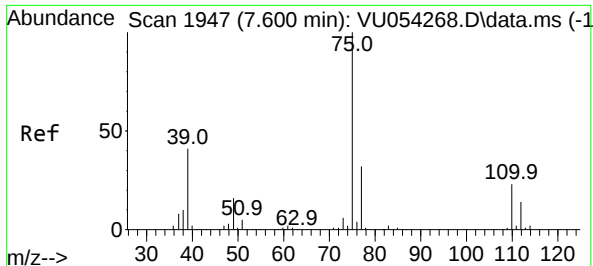
Tgt Ion: 98 Resp: 537824
Ion Ratio Lower Upper
98 100
100 66.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.484 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 43 Resp: 7342
Ion Ratio Lower Upper
43 100
58 43.0 34.7 52.1

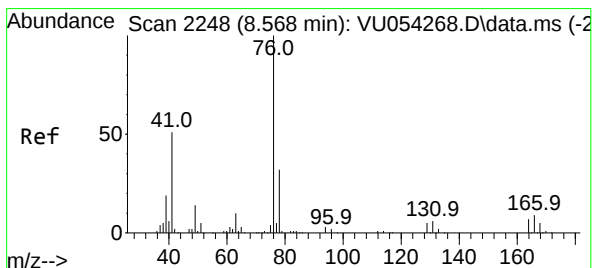
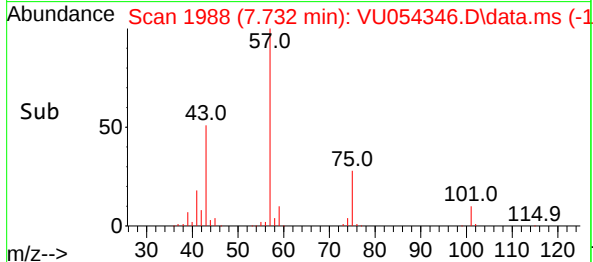
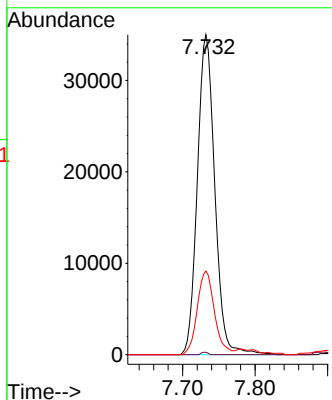
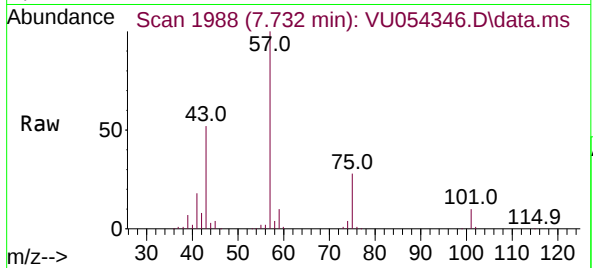




#54
 cis-1,3-Dichloropropene
 Concen: 10.843 ug/l
 RT: 7.732 min Scan# 1947
 Delta R.T. 0.132 min
 Lab File: VU054346.D
 Acq: 31 May 2023 18:35

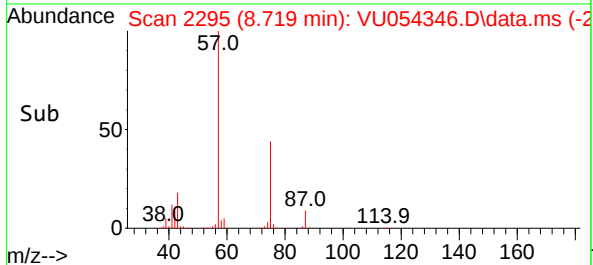
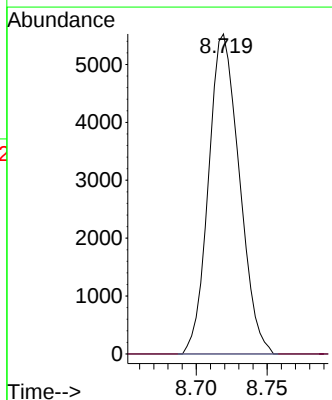
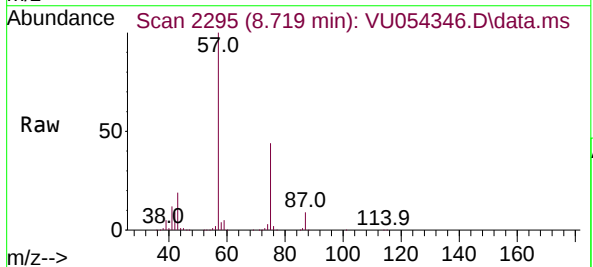
Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#05

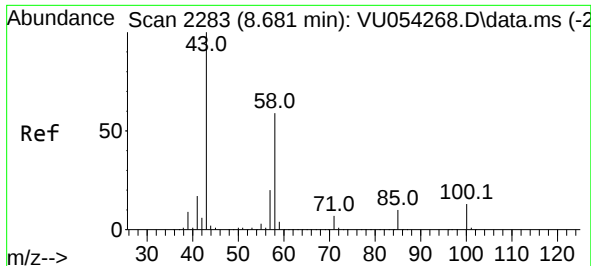
Tgt Ion: 75 Resp: 58489
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.7 38.5#
 39 26.1 33.0 49.6#



#57
 1,3-Dichloropropane
 Concen: 1.460 ug/l
 RT: 8.719 min Scan# 2295
 Delta R.T. 0.151 min
 Lab File: VU054346.D
 Acq: 31 May 2023 18:35

Tgt Ion: 76 Resp: 8360
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

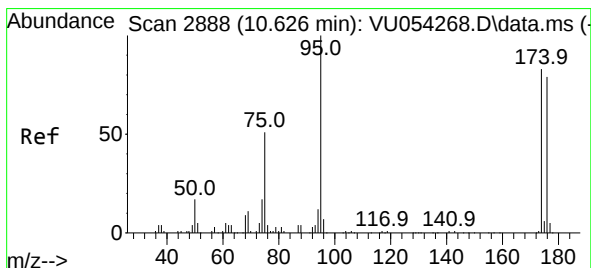
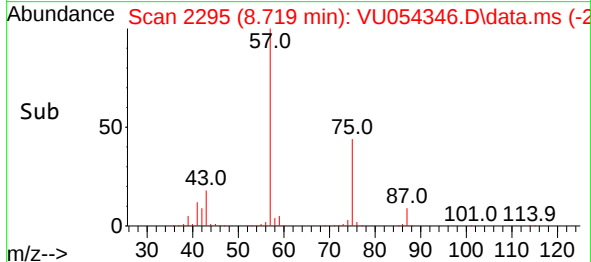
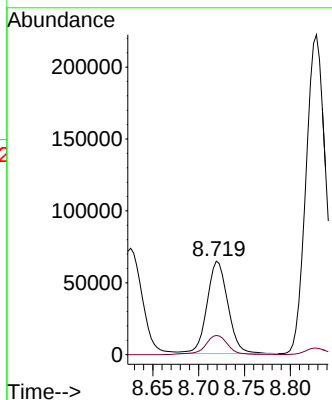
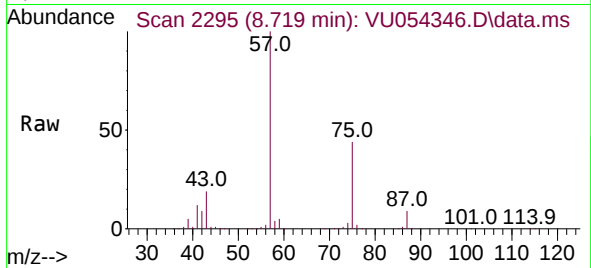




#59
2-Hexanone
Concen: 26.077 ug/l
RT: 8.719 min Scan# 21
Delta R.T. 0.038 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

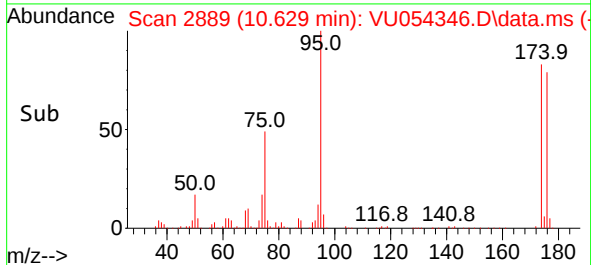
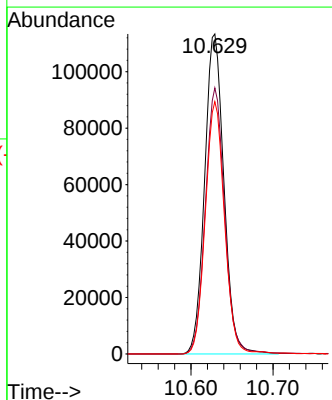
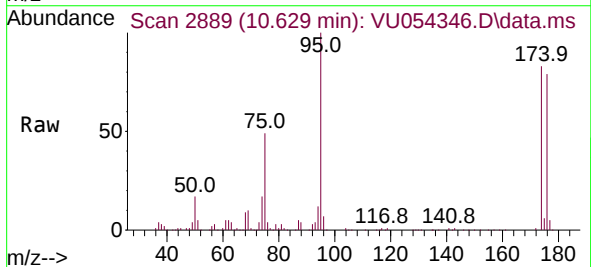
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

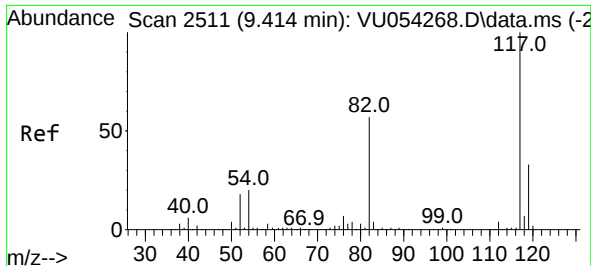
Tgt Ion: 43 Resp: 101926
Ion Ratio Lower Upper
43 100
58 22.6 30.3 90.8#



#62
4-Bromofluorobenzene
Concen: 44.787 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 95 Resp: 185489
Ion Ratio Lower Upper
95 100
174 83.4 0.0 182.0
176 78.1 0.0 177.8

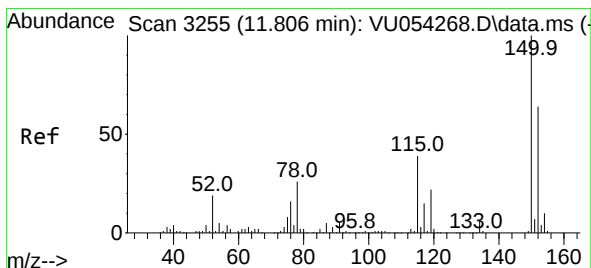
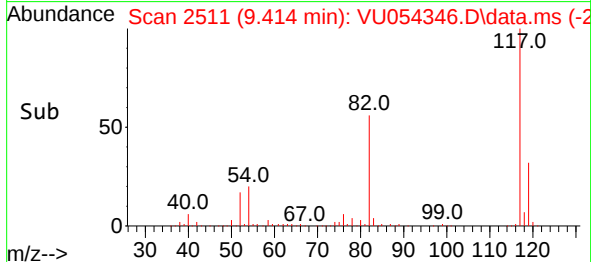
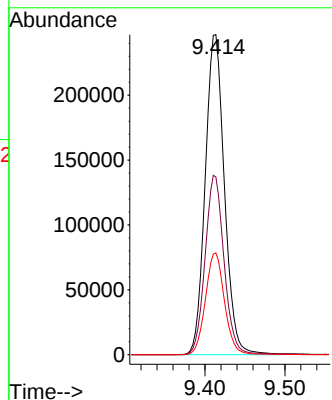
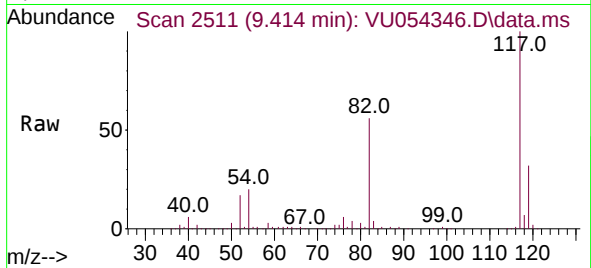




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

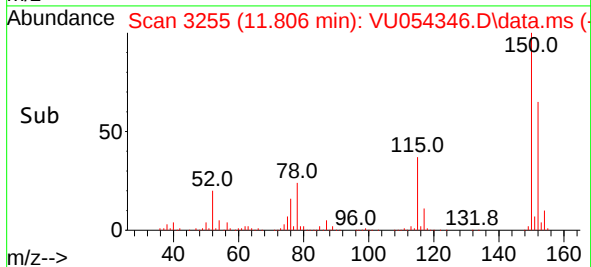
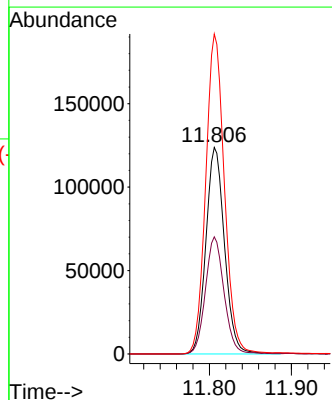
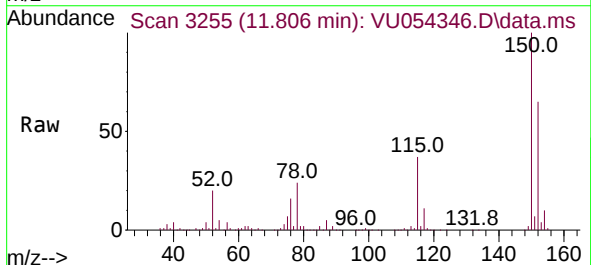
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#05

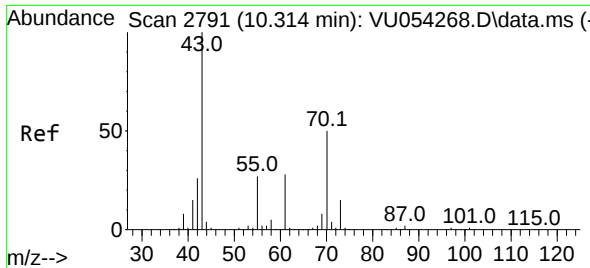
Tgt Ion:117 Resp: 413118
Ion Ratio Lower Upper
117 100
82 55.5 41.7 62.5
119 31.8 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion:152 Resp: 195444
Ion Ratio Lower Upper
152 100
115 56.8 37.0 110.9
150 155.3 0.0 342.2

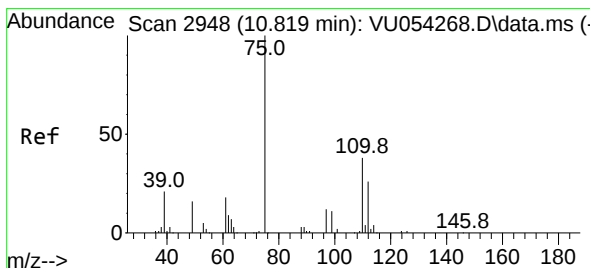
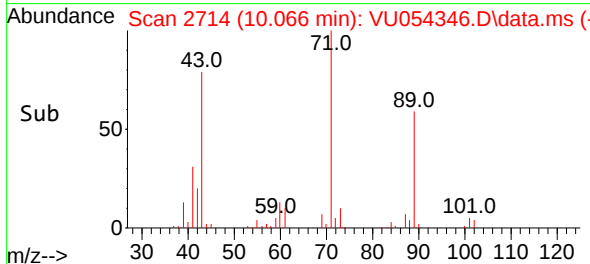
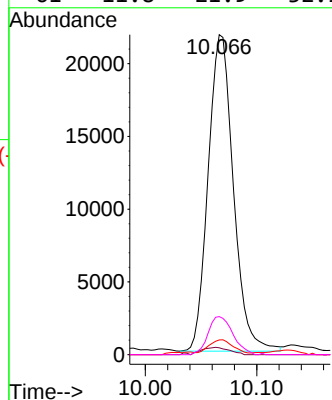
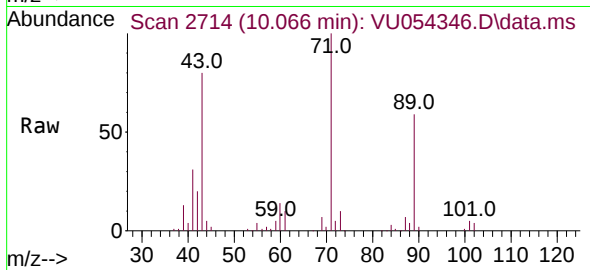




#74
N-amy1 acetate
Concen: 6.664 ug/l
RT: 10.066 min Scan# 21
Delta R.T. -0.248 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

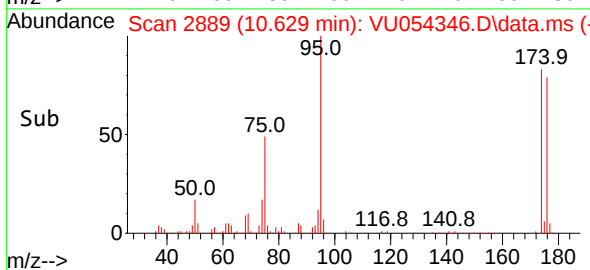
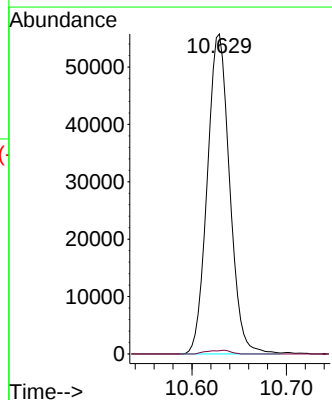
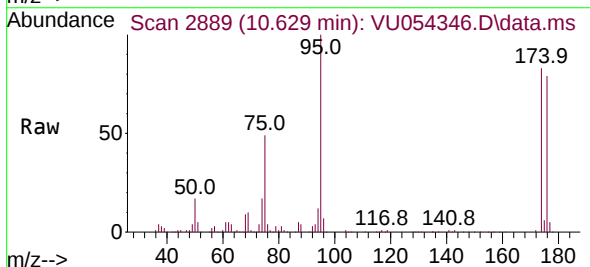
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MSVOA_U
ClientSampleId :
PB153123ZHE#05

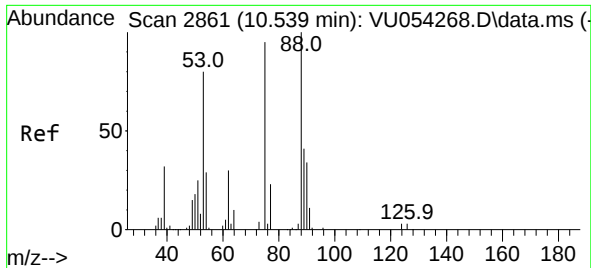
Tgt Ion: 43	Resp:	34249
Ion	Ratio	Lower Upper
43	100	
70	2.5	38.7 58.1#
55	4.0	21.8 32.8#
61	11.8	21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 16.060 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion: 75	Resp:	91608
Ion	Ratio	Lower Upper
75	100	
77	1.2	15.8 47.3#

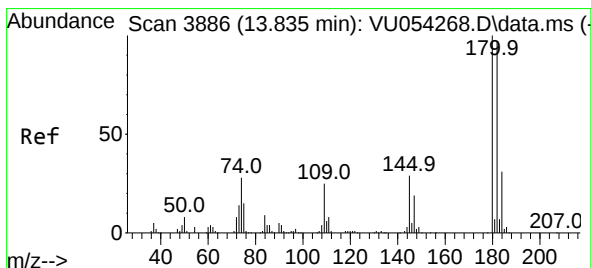
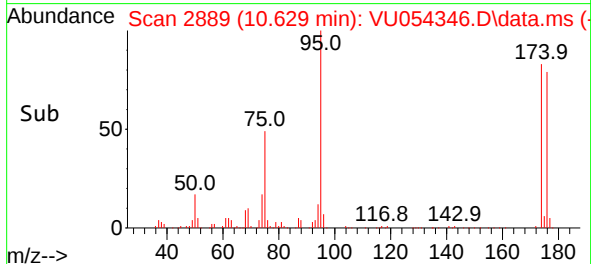
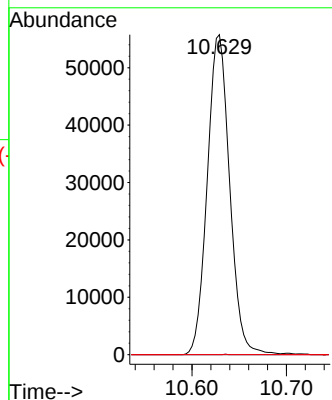
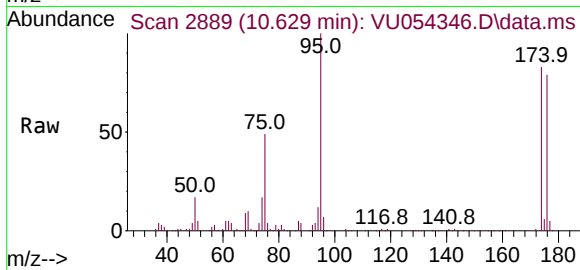




#81
trans-1,4-Dichloro-2-butene
Concen: 61.154 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.090 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

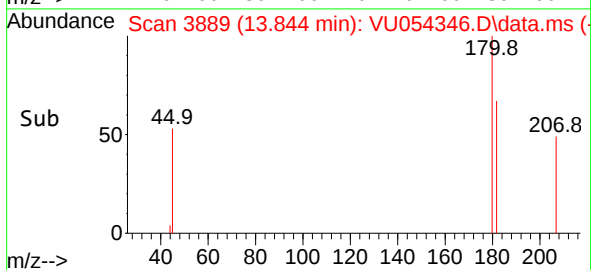
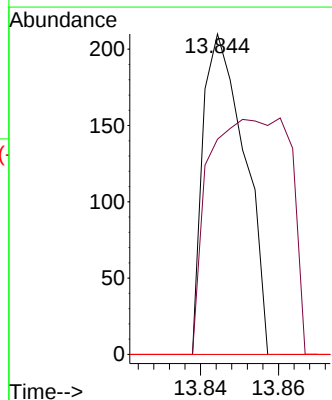
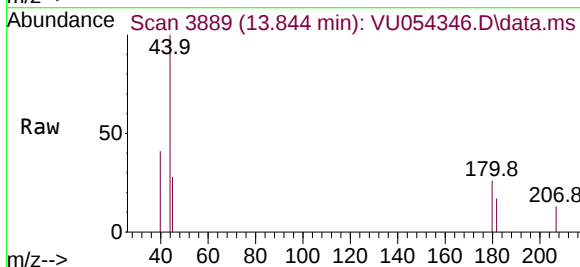
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MSVOA_U
ClientSampleId :
PB153123ZHE#05

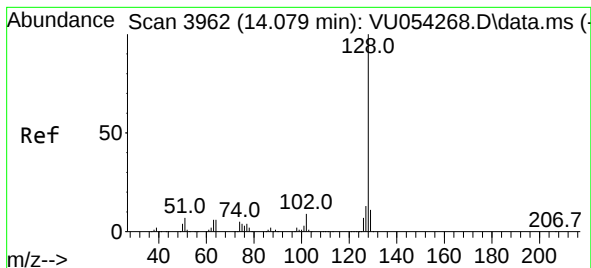
Tgt Ion: 75 Resp: 91608
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.677 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.009 min
Lab File: VU054346.D
Acq: 31 May 2023 18:35

Tgt Ion:180 Resp: 155
Ion Ratio Lower Upper
180 100
182 144.5 47.9 143.6#
145 0.0 14.0 41.9#





#95

Naphthalene

Concen: 2.046 ug/l

RT: 14.105 min Scan# 3962

Delta R.T. 0.026 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

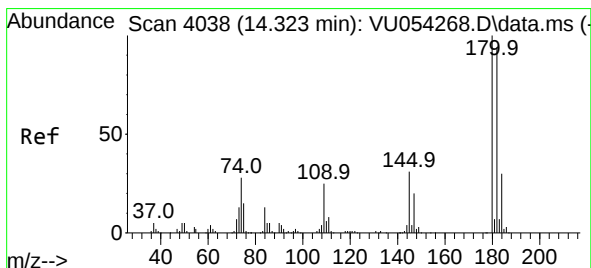
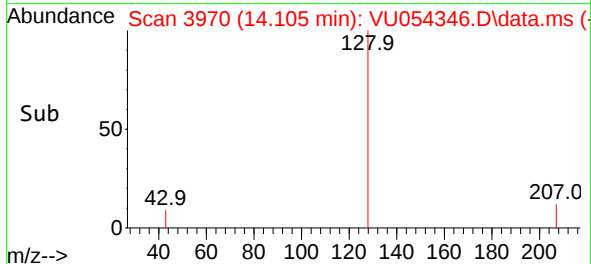
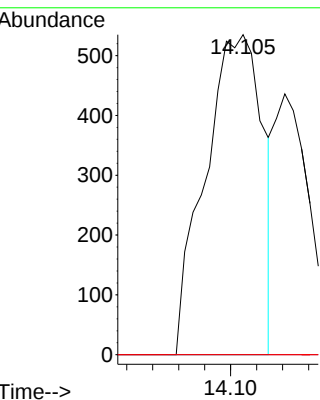
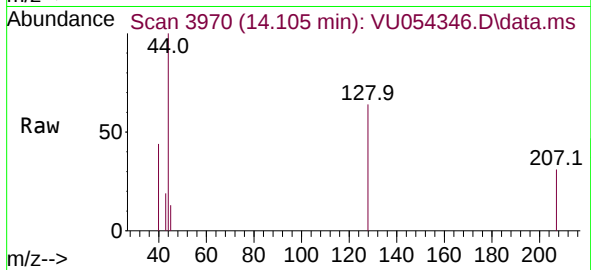
Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#05

Tgt Ion:128	Resp:	822
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.3
129	0.0	8.6



#96

1,2,3-Trichlorobenzene

Concen: 1.302 ug/l

RT: 14.330 min Scan# 4040

Delta R.T. 0.007 min

Lab File: VU054346.D

Acq: 31 May 2023 18:35

Tgt Ion:180	Resp:	214
Ion Ratio	Lower	Upper
180	100	
182	61.7	48.4
145	0.0	14.8

