

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054342.D
 Acq On : 31 May 2023 17:00
 Operator : JC/MD
 Sample : PB153123ZHE#01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#01

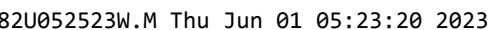
Quant Time: Jun 01 05:23:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

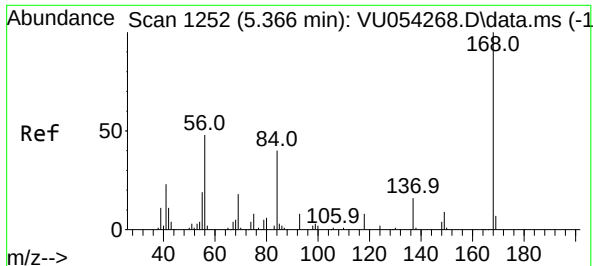
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.369	168	256655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	450394	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	417937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	189152	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	176573	52.481	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.960%			
35) Dibromofluoromethane	5.282	113	144323	49.759	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.520%			
50) Toluene-d8	7.893	98	549007	49.763	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.520%			
62) 4-Bromofluorobenzene	10.629	95	183248	42.838	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 85.680%			
Target Compounds						Qvalue
10) Methyl Iodide	2.716	142	151	2.376	ug/l #	43
16) Acetone	2.636	43	25350	13.145	ug/l	99
18) Methyl Acetate	2.954	43	3463	0.492	ug/l #	76
20) Methylene Chloride	3.044	84	20940	6.019	ug/l	93
25) 2-Butanone	4.726	43	4924	1.928	ug/l	90
29) Tetrahydrofuran	5.063	42	446	0.278	ug/l #	44
31) Cyclohexane	5.366	56	4911	1.034	ug/l #	5
36) 1,1-Dichloropropene	5.366	75	19922	4.373	ug/l #	48
37) Ethyl Acetate	4.803	43	45237	8.148	ug/l #	92
38) Carbon Tetrachloride	5.366	117	25605	5.491	ug/l #	16
43) Isopropyl Acetate	5.906	43	172111	22.474	ug/l	98
45) 1,2-Dichloropropane	7.034	63	2826	0.834	ug/l #	43
48) Methyl methacrylate	6.902	41	5656	1.665	ug/l #	33
49) 1,4-Dioxane	7.031	88	156	1.591	ug/l #	1
51) 4-Methyl-2-Pentanone	7.787	43	7945	1.555	ug/l	98
53) t-1,3-Dichloropropene	8.153	75	1377	0.258	ug/l #	43
54) cis-1,3-Dichloropropene	7.732	75	62069	11.140	ug/l #	60
56) Ethyl methacrylate	8.462	69	2050	0.401	ug/l #	1
57) 1,3-Dichloropropane	8.722	76	8200	1.387	ug/l #	42
59) 2-Hexanone	8.719	43	102899	25.488	ug/l #	51
74) N-amyl acetate	10.066	43	33188	6.672	ug/l #	49
76) 1,2,3-Trichloropropane	10.629	75	94421	17.103	ug/l #	44
81) trans-1,4-Dichloro-2-b...	10.629	75	94421	65.129	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.841	180	307	1.712	ug/l #	49
94) Hexachlorobutadiene	14.021	225	20	0.830	ug/l #	19
95) Naphthalene	14.102	128	1195	2.073	ug/l #	76
96) 1,2,3-Trichlorobenzene	14.327	180	178	1.295	ug/l #	50

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

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Response via : Initial Calibration

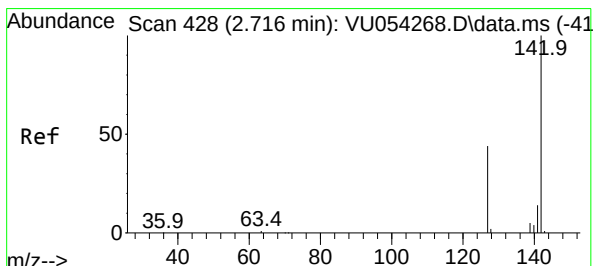
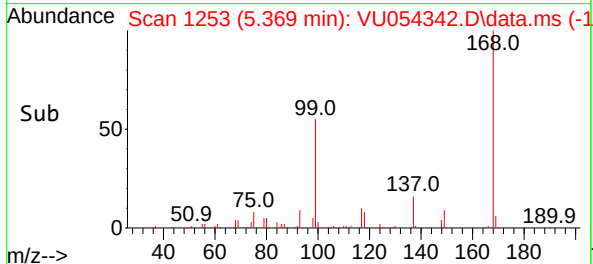
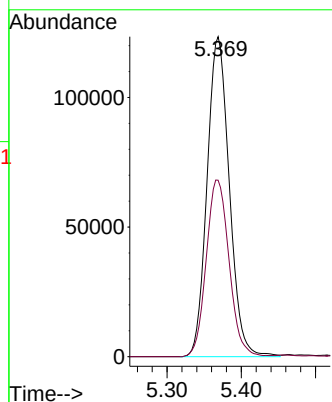
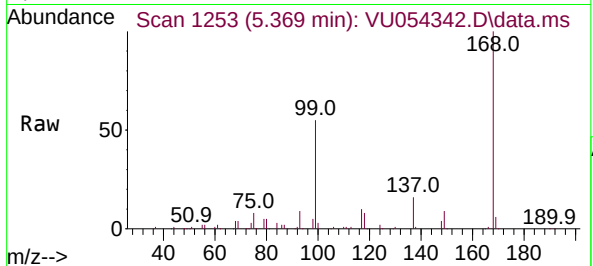




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

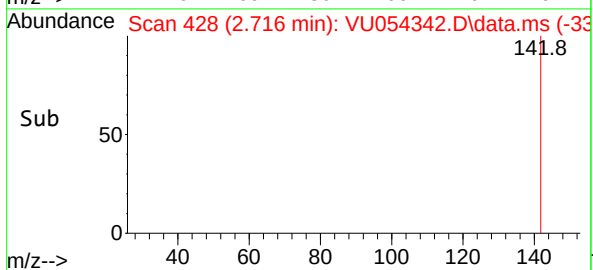
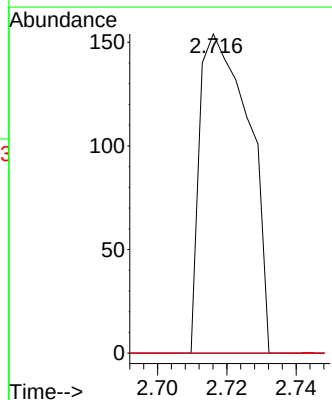
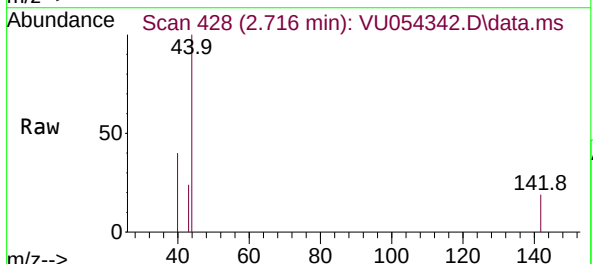
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

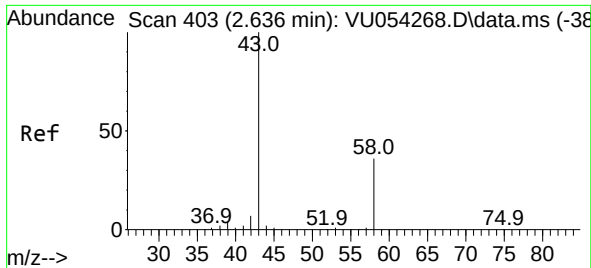
Tgt Ion:168 Resp: 256655
Ion Ratio Lower Upper
168 100
99 55.2 39.3 58.9



#10
Methyl Iodide
Concen: 2.376 ug/l
RT: 2.716 min Scan# 428
Delta R.T. 0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion:142 Resp: 151
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

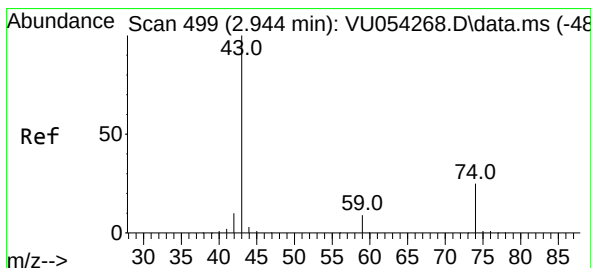
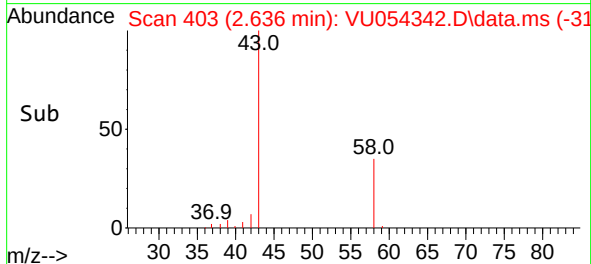
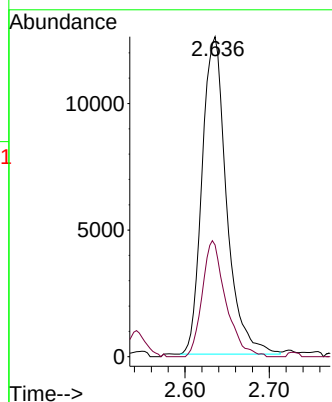
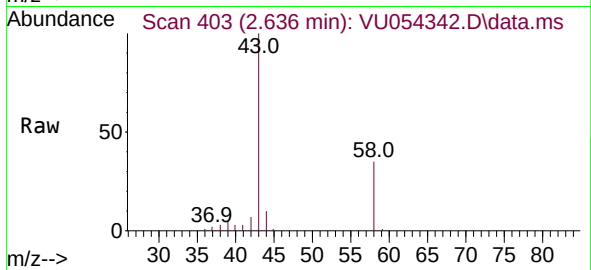




#16
Acetone
Concen: 13.145 ug/l
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

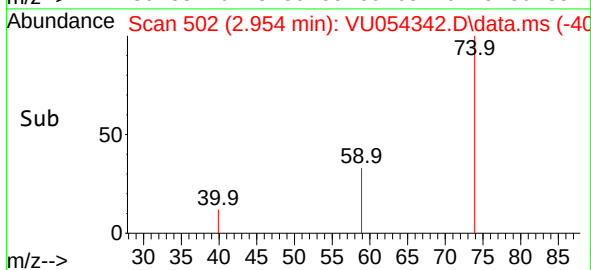
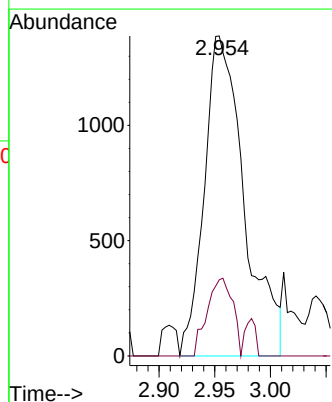
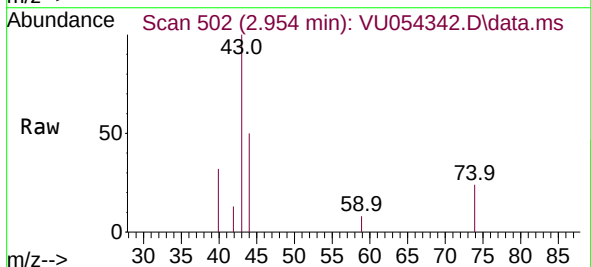
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

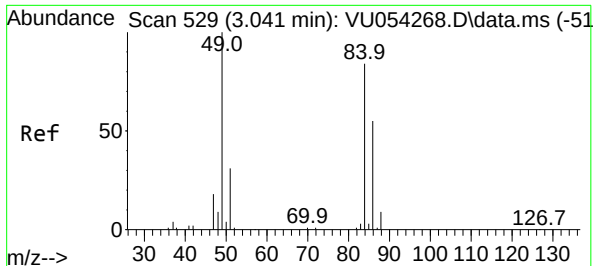
Tgt Ion: 43 Resp: 25350
Ion Ratio Lower Upper
43 100
58 35.2 27.5 41.3



#18
Methyl Acetate
Concen: 0.492 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.010 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 43 Resp: 3463
Ion Ratio Lower Upper
43 100
74 15.4 22.5 33.7#

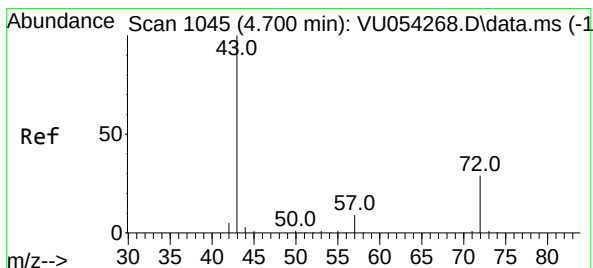
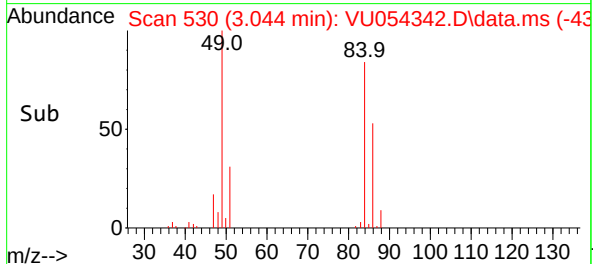
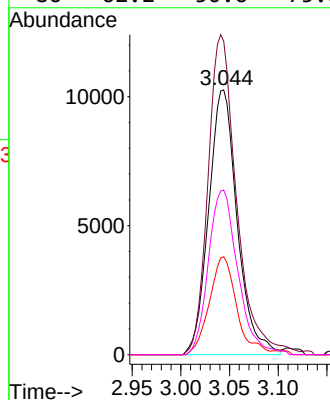
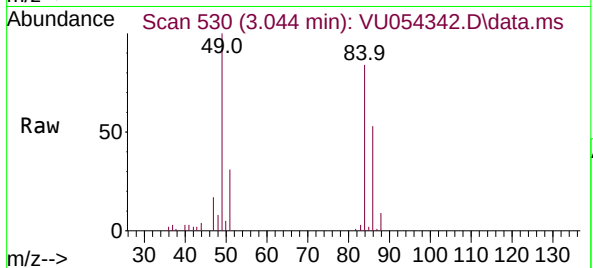




#20
Methylene Chloride
Concen: 6.019 ug/l
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

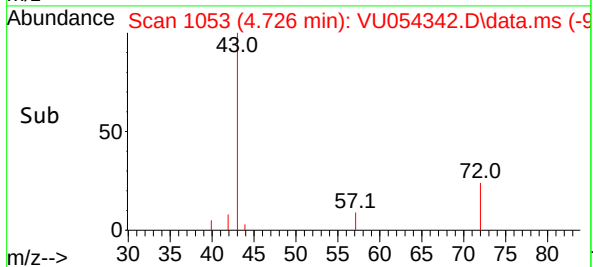
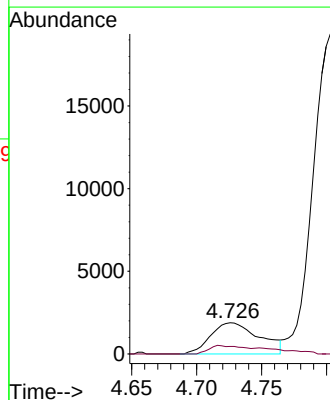
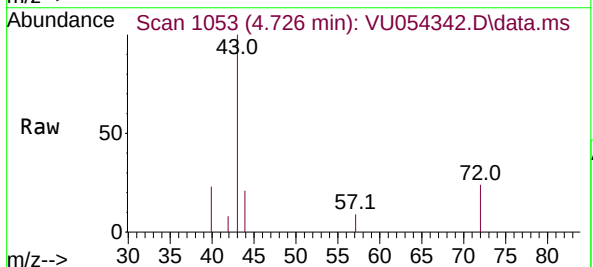
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

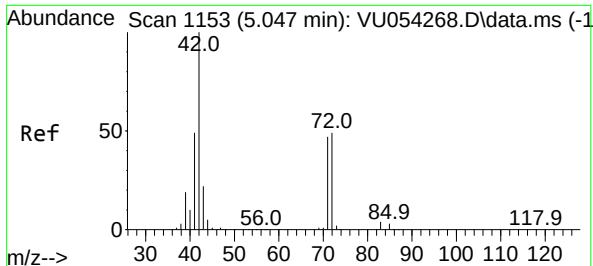
Tgt Ion:	84	Resp:	20940
Ion	Ratio	Lower	Upper
84	100		
49	118.4	86.6	129.8
51	37.0	26.6	40.0
86	62.2	50.6	75.8



#25
2-Butanone
Concen: 1.928 ug/l
RT: 4.726 min Scan# 1053
Delta R.T. 0.026 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion:	43	Resp:	4924
Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.8	35.6





#29

Tetrahydrofuran

Concen: 0.278 ug/l

RT: 5.063 min Scan# 1158

Delta R.T. 0.016 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#01

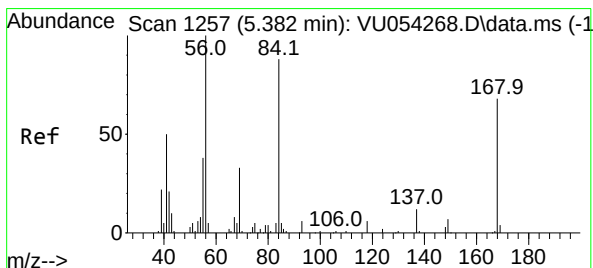
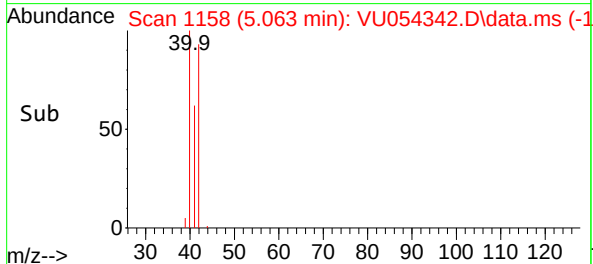
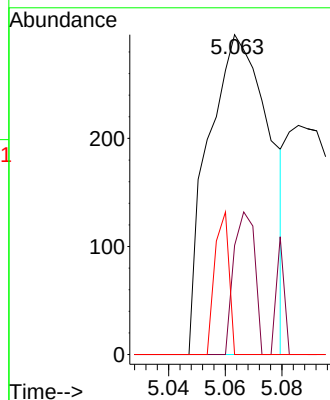
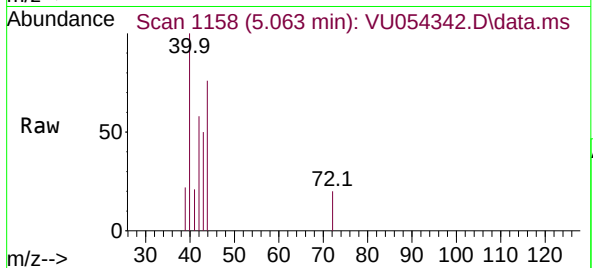
Tgt Ion: 42 Resp: 446

Ion Ratio Lower Upper

42 100

72 15.2 42.6 63.8#

71 10.3 40.3 60.5#



#31

Cyclohexane

Concen: 1.034 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.016 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

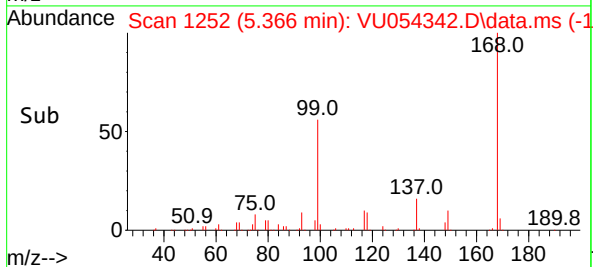
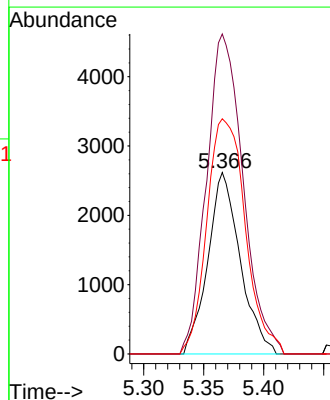
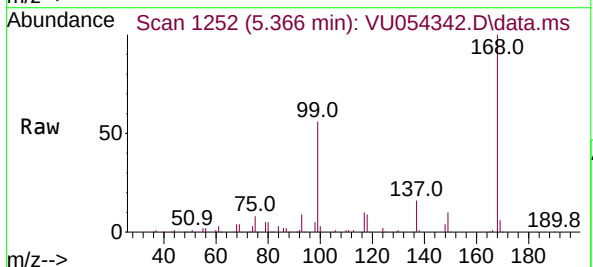
Tgt Ion: 56 Resp: 4911

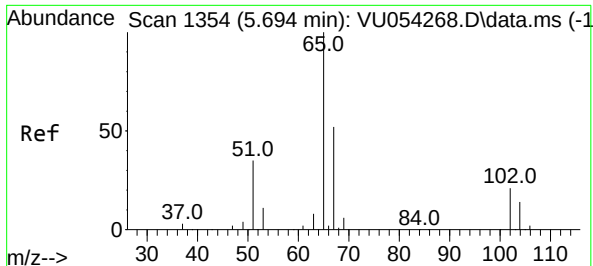
Ion Ratio Lower Upper

56 100

69 176.4 27.8 41.8#

84 129.7 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 52.481 ug/l

RT: 5.697 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

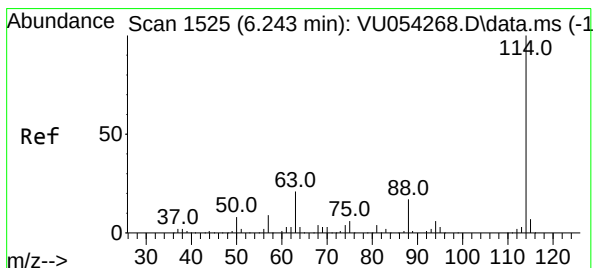
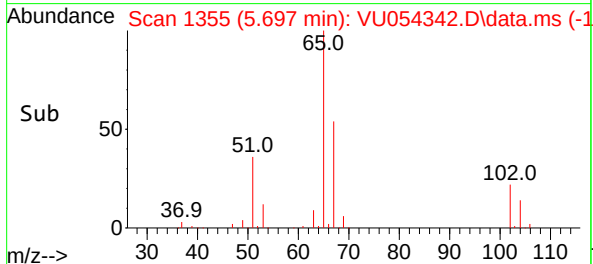
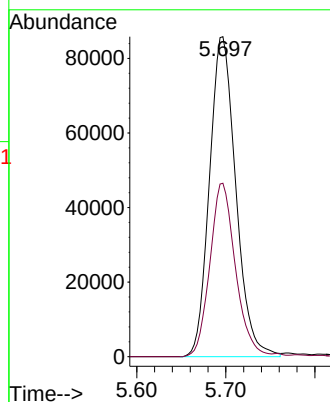
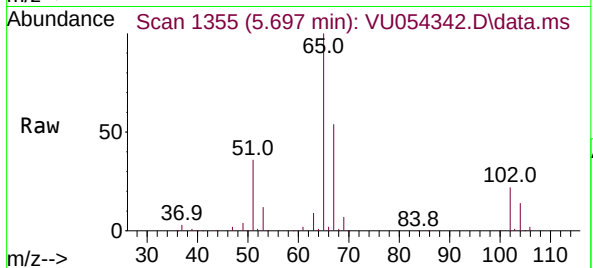
PB153123ZHE#01

Tgt Ion: 65 Resp: 176573

Ion Ratio Lower Upper

65 100

67 52.5 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: VU054342.D

Acq: 31 May 2023 17:00

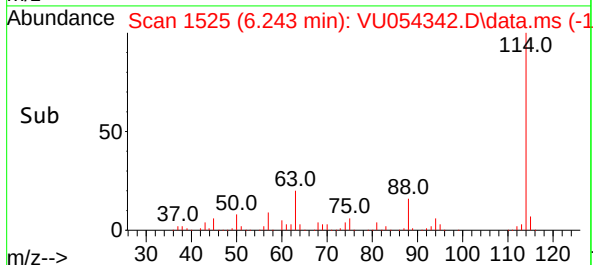
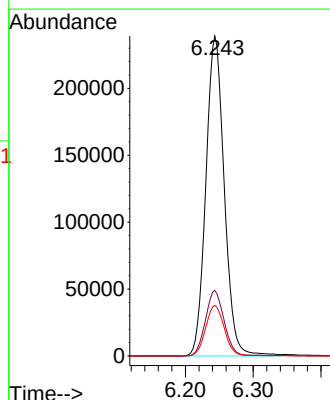
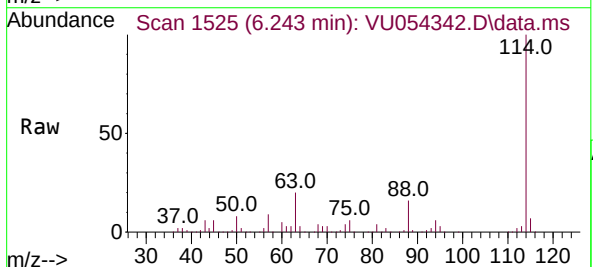
Tgt Ion: 114 Resp: 450394

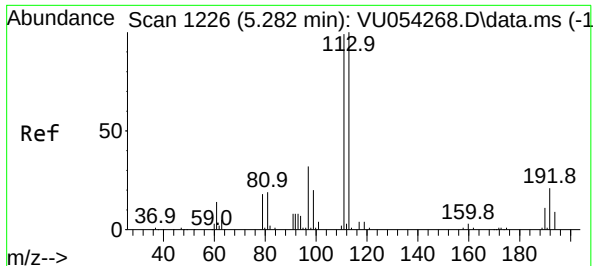
Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.8

88 15.8 0.0 29.2





#35

Dibromofluoromethane

Concen: 49.759 ug/l

RT: 5.282 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#01

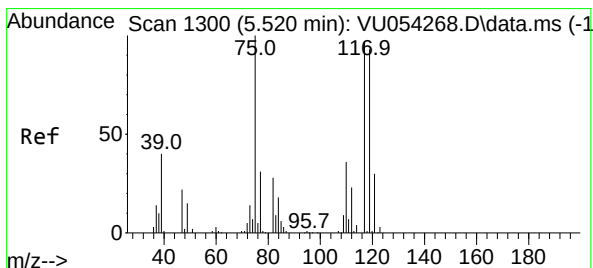
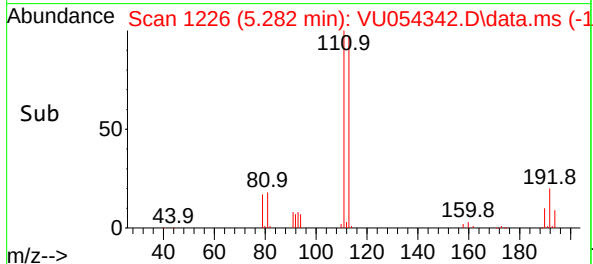
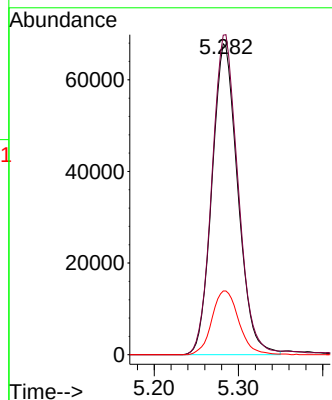
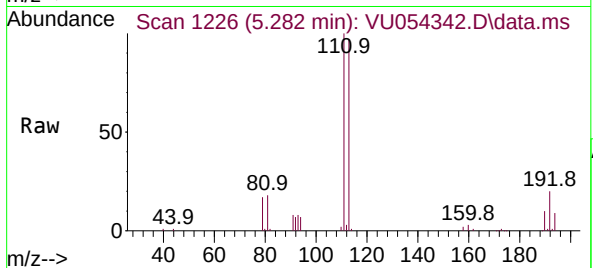
Tgt Ion:113 Resp: 144323

Ion Ratio Lower Upper

113 100

111 104.0 82.1 123.1

192 21.4 18.0 27.0



#36

1,1-Dichloropropene

Concen: 4.373 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.154 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

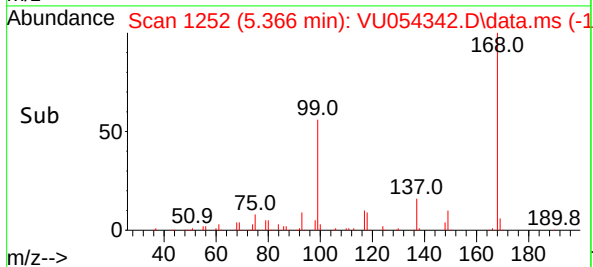
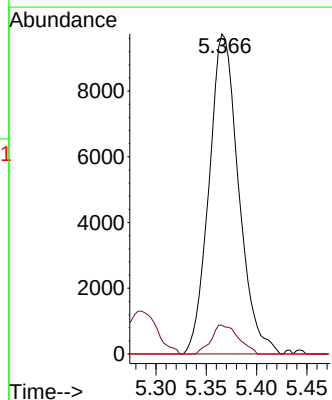
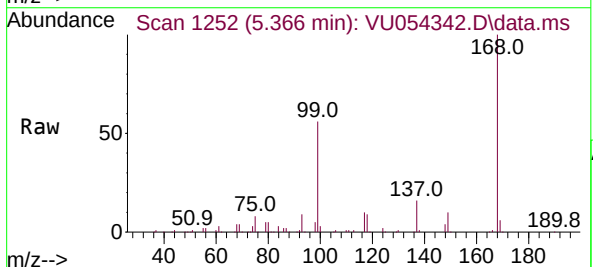
Tgt Ion: 75 Resp: 19922

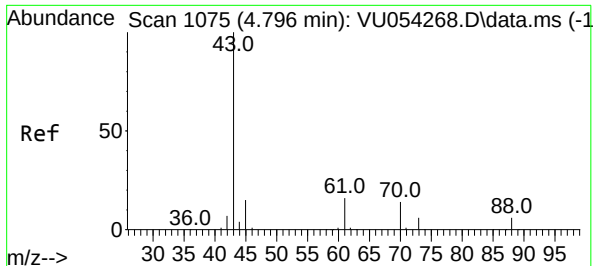
Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 8.148 ug/l

RT: 4.803 min Scan# 1

Delta R.T. 0.007 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#01

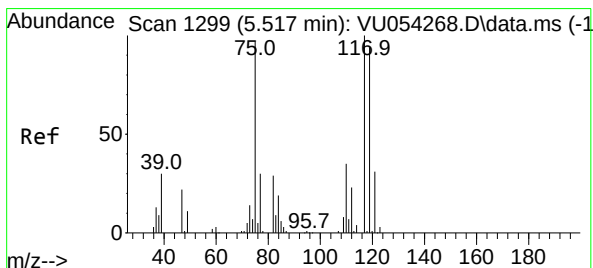
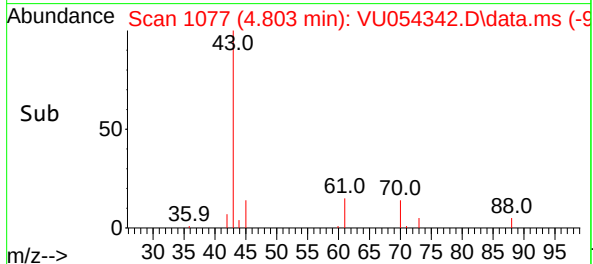
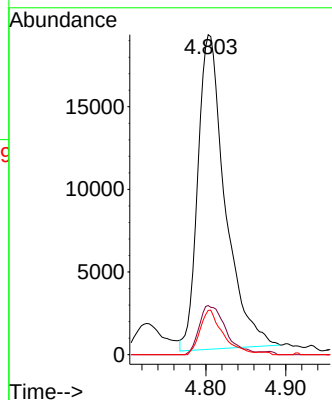
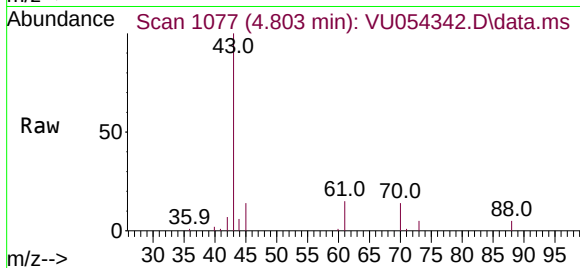
Tgt Ion: 43 Resp: 45237

Ion Ratio Lower Upper

43 100

61 15.3 9.5 14.3#

70 11.9 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.491 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

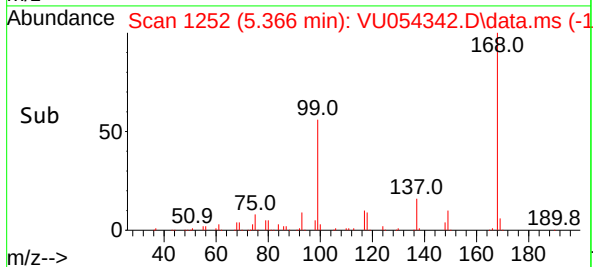
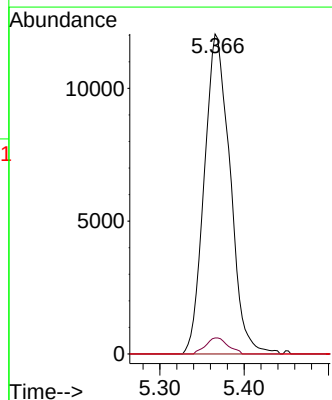
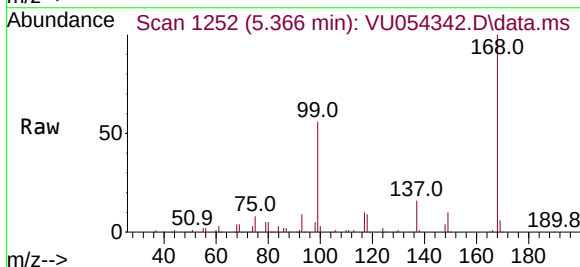
Tgt Ion: 117 Resp: 25605

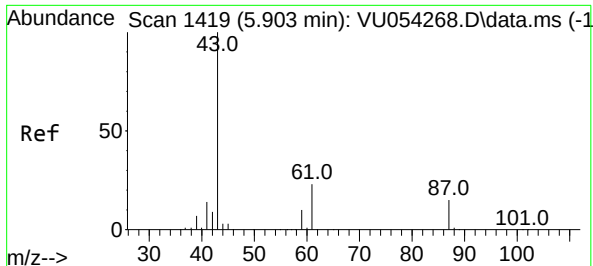
Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

121 0.0 24.7 37.1#

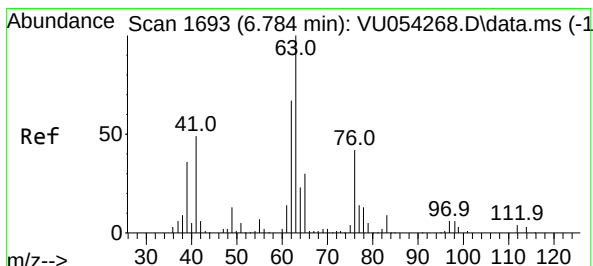
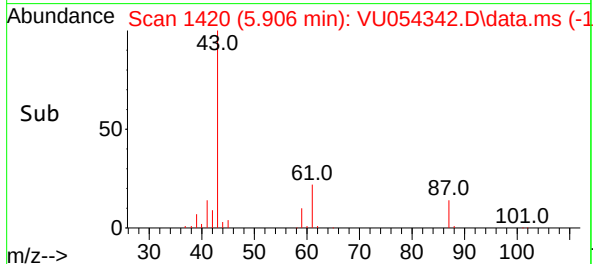
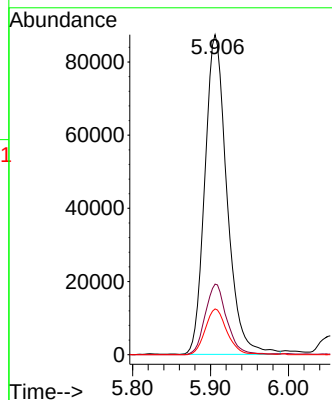
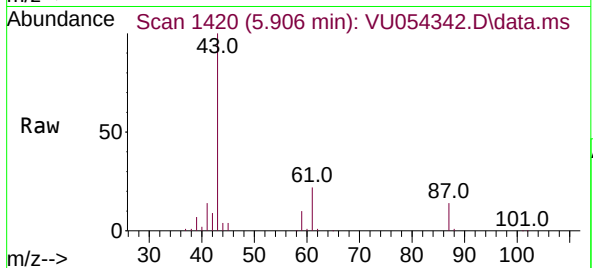




#43
Isopropyl Acetate
Concen: 22.474 ug/l
RT: 5.906 min Scan# 1419
Delta R.T. 0.003 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

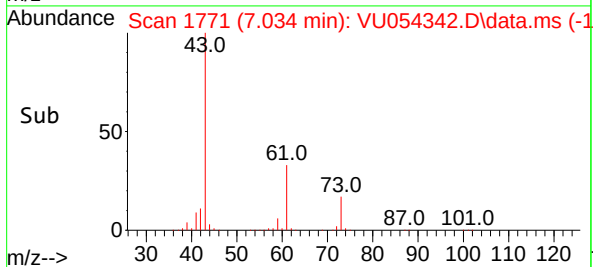
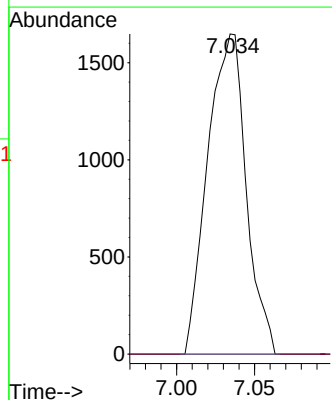
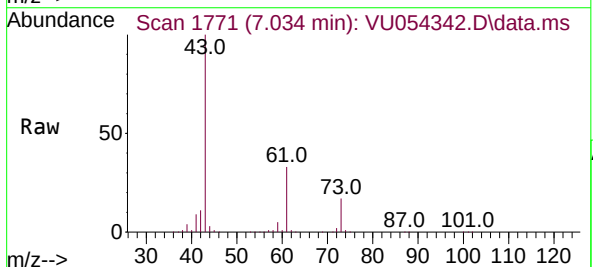
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

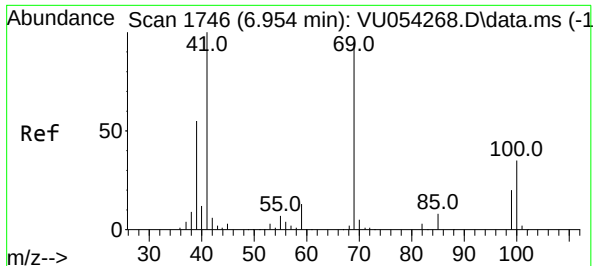
Tgt Ion: 43 Resp: 172111
Ion Ratio Lower Upper
43 100
61 21.7 17.4 26.0
87 14.1 12.6 18.8



#45
1,2-Dichloropropane
Concen: 0.834 ug/l
RT: 7.034 min Scan# 1771
Delta R.T. 0.250 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 63 Resp: 2826
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 1.665 ug/l

RT: 6.902 min Scan# 1

Delta R.T. -0.052 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#01

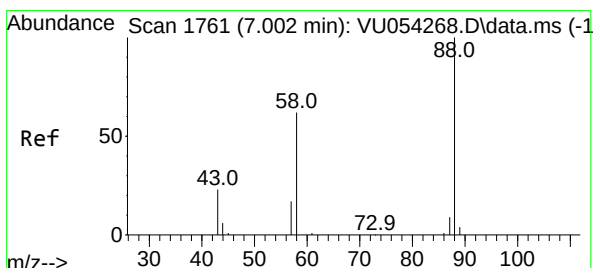
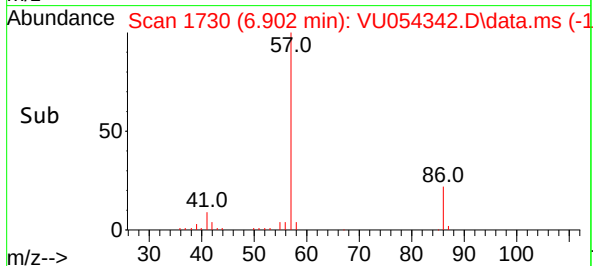
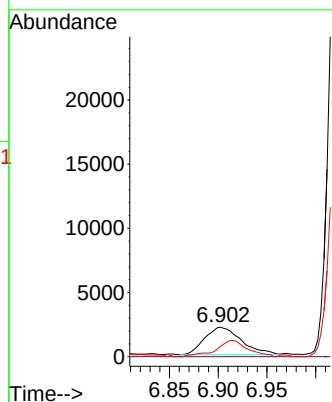
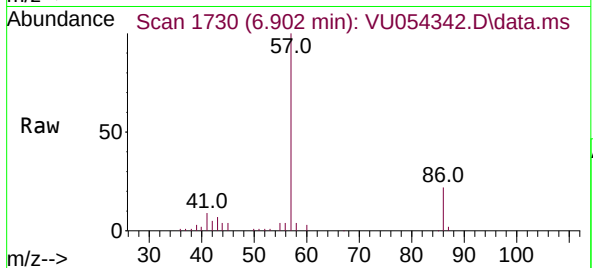
Tgt Ion: 41 Resp: 5656

Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 49.9 47.9 71.9



#49

1,4-Dioxane

Concen: 1.591 ug/l

RT: 7.031 min Scan# 1770

Delta R.T. 0.029 min

Lab File: VU054342.D

Acq: 31 May 2023 17:00

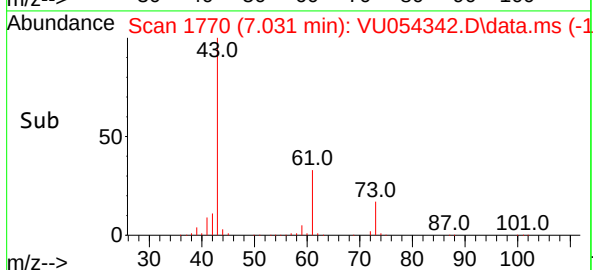
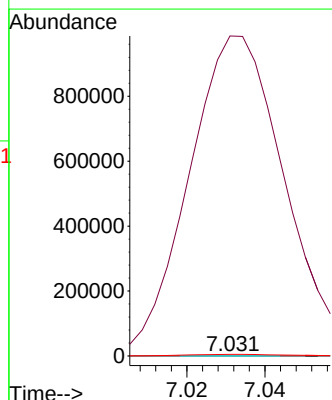
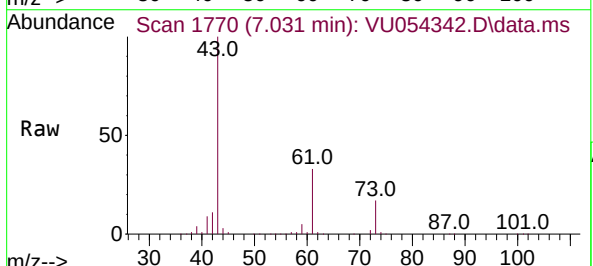
Tgt Ion: 88 Resp: 156

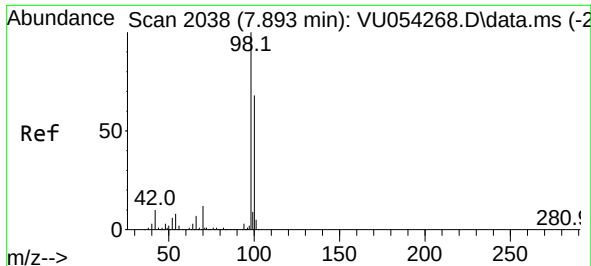
Ion Ratio Lower Upper

88 100

43 1114084.6 0.0 0.0#

58 5859.0 15.4 23.0#

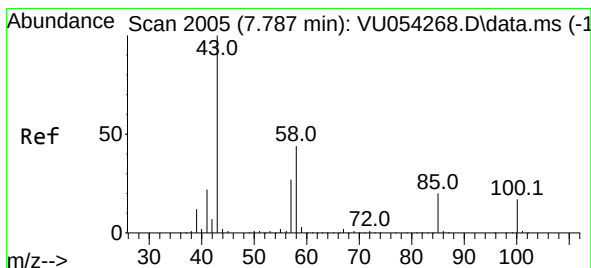
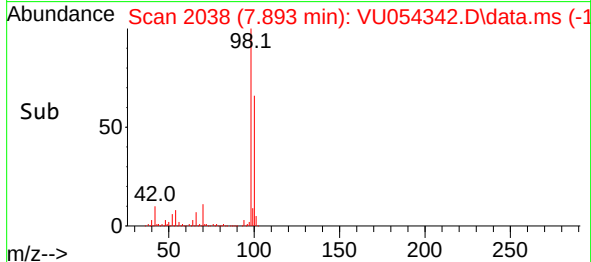
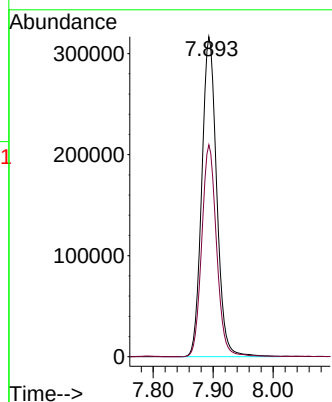
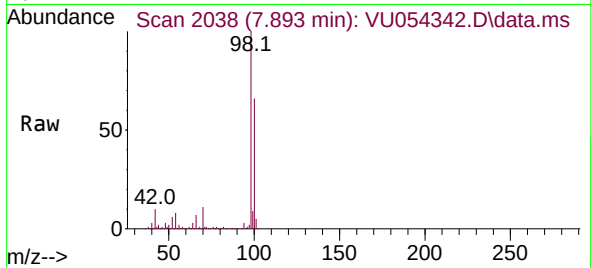




#50
Toluene-d8
Concen: 49.763 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

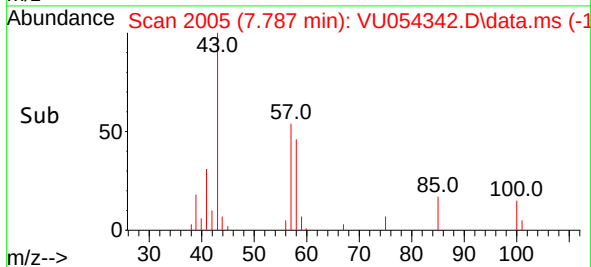
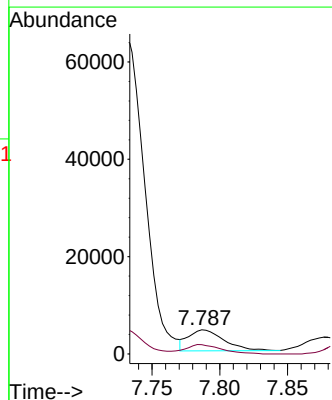
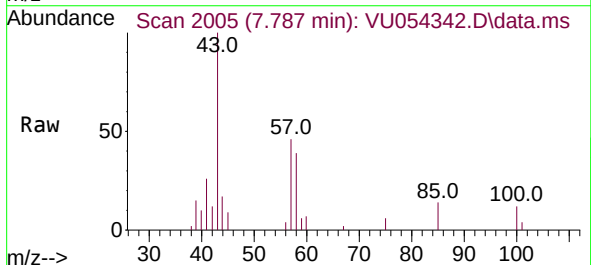
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

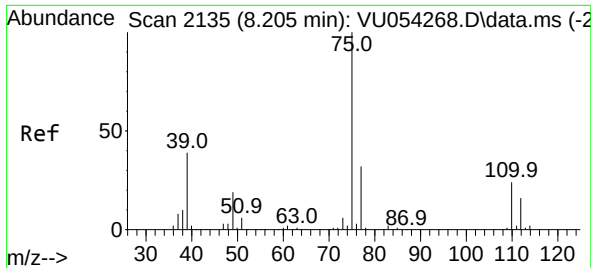
Tgt Ion: 98 Resp: 549007
Ion Ratio Lower Upper
98 100
100 65.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.555 ug/l
RT: 7.787 min Scan# 2005
Delta R.T. -0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 43 Resp: 7945
Ion Ratio Lower Upper
43 100
58 44.9 34.7 52.1

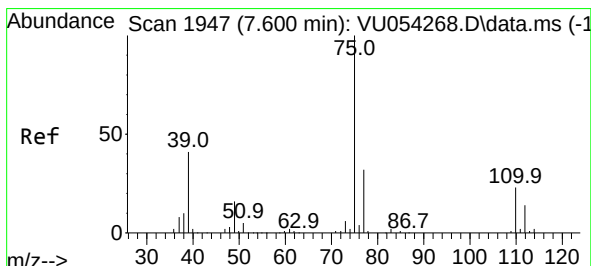
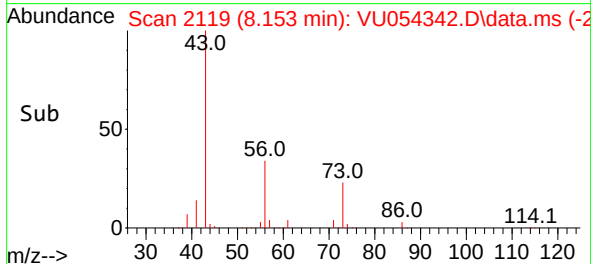
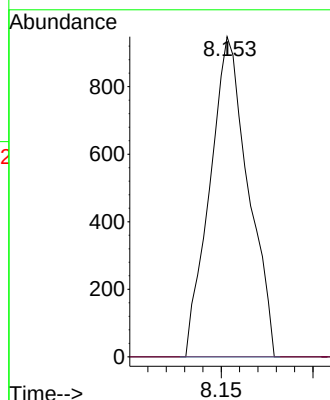
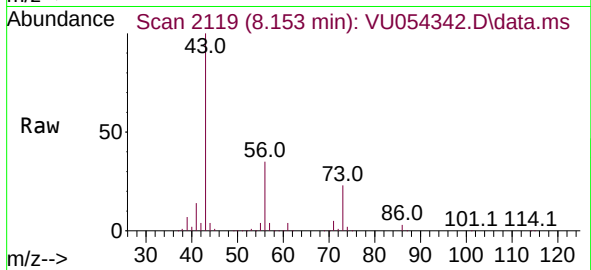




#53
 t-1,3-Dichloropropene
 Concen: 0.258 ug/l
 RT: 8.153 min Scan# 2135
 Delta R.T. -0.052 min
 Lab File: VU054342.D
 Acq: 31 May 2023 17:00

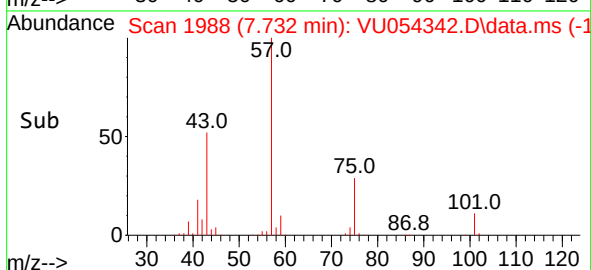
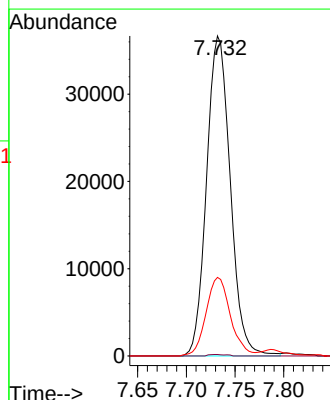
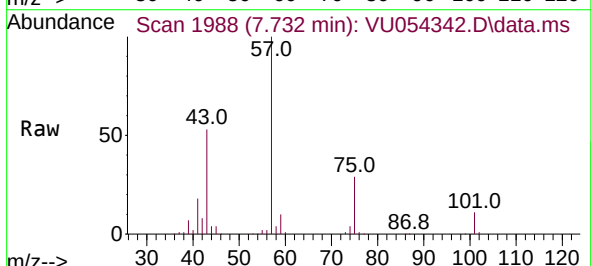
Instrument :
 MSVOA_U
 ClientSampleId :
 PB153123ZHE#01

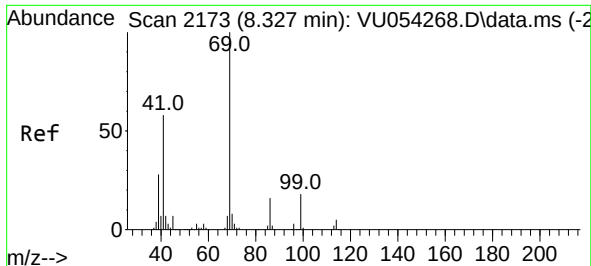
Tgt Ion: 75 Resp: 1377
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.140 ug/l
 RT: 7.732 min Scan# 1988
 Delta R.T. 0.132 min
 Lab File: VU054342.D
 Acq: 31 May 2023 17:00

Tgt Ion: 75 Resp: 62069
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 24.5 33.0 49.6#

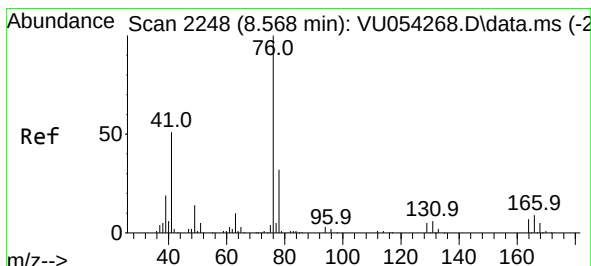
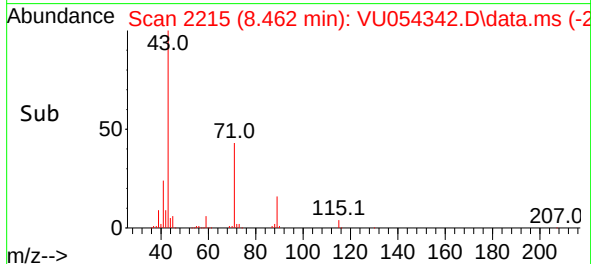
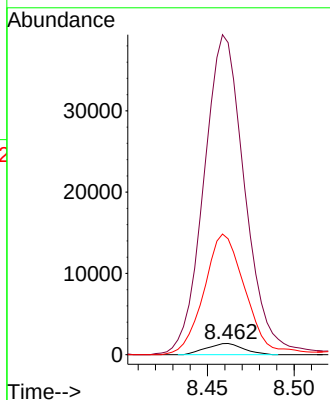
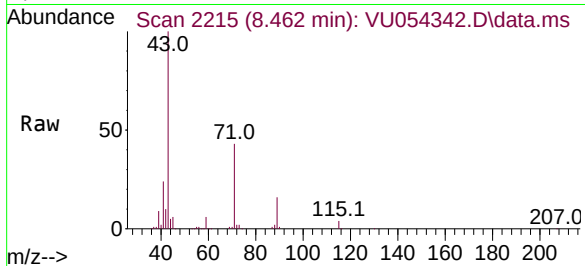




#56
Ethyl methacrylate
Concen: 0.401 ug/l
RT: 8.462 min Scan# 2173
Delta R.T. 0.135 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

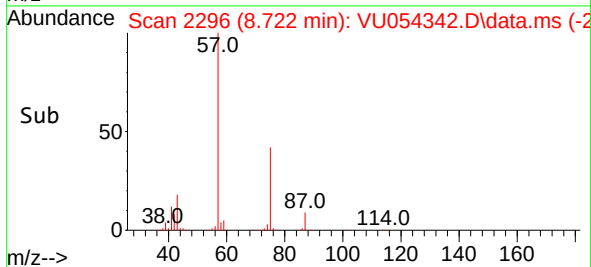
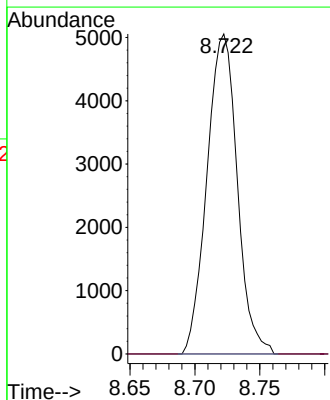
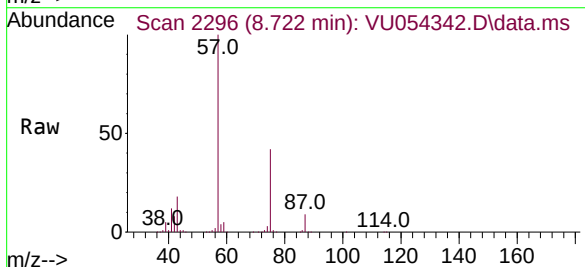
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

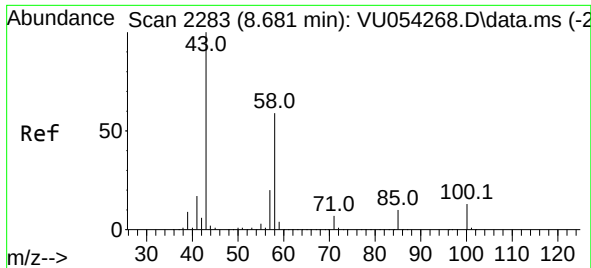
Tgt Ion: 69 Resp: 2050
Ion Ratio Lower Upper
69 100
41 3173.8 45.4 68.0#
39 1209.5 25.7 38.5#



#57
1,3-Dichloropropane
Concen: 1.387 ug/l
RT: 8.722 min Scan# 2296
Delta R.T. 0.154 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 76 Resp: 8200
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

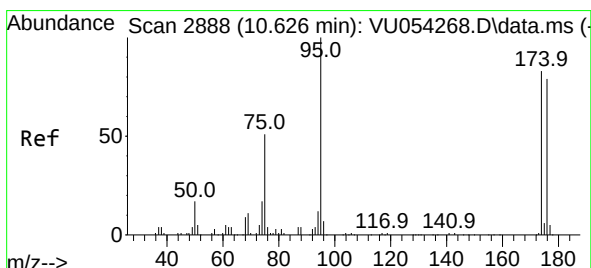
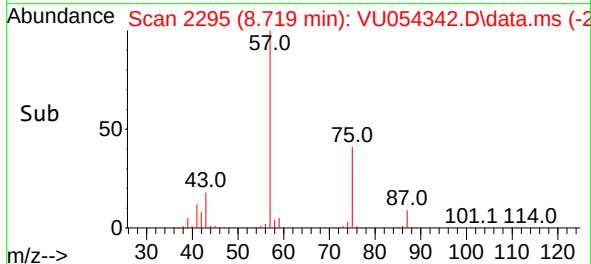
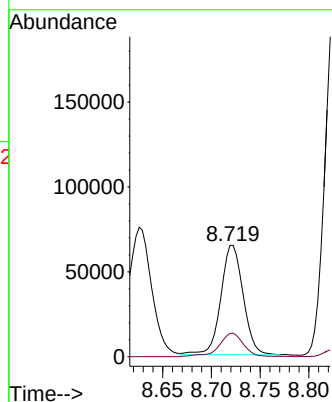
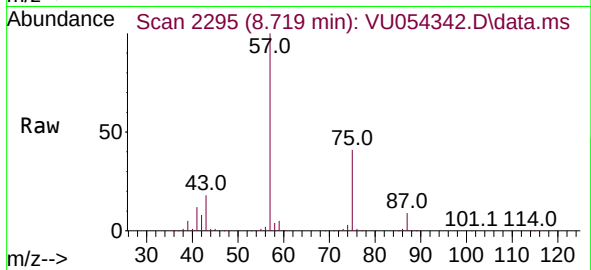




#59
2-Hexanone
Concen: 25.488 ug/l
RT: 8.719 min Scan# 21
Delta R.T. 0.038 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

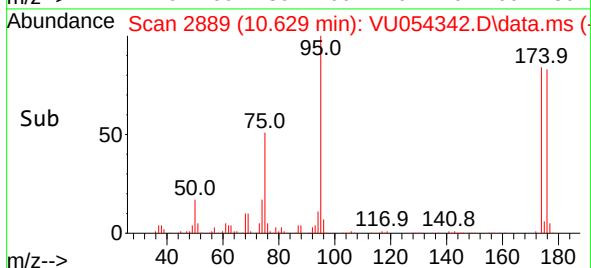
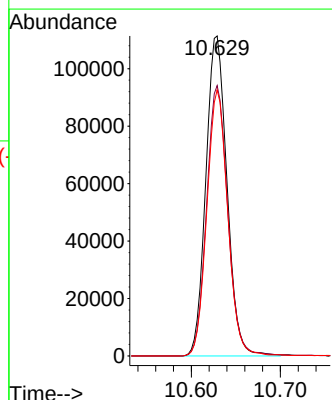
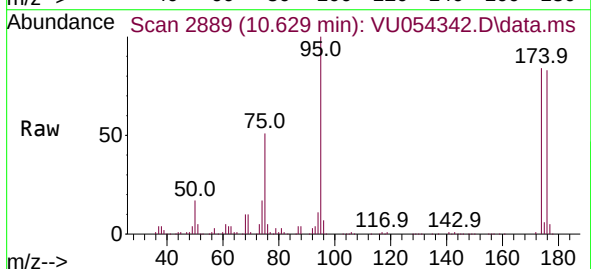
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

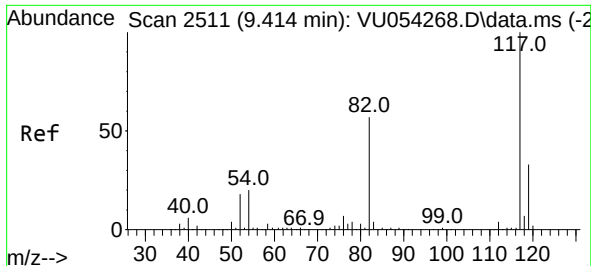
Tgt Ion: 43 Resp: 102899
Ion Ratio Lower Upper
43 100
58 23.4 30.3 90.8#



#62
4-Bromofluorobenzene
Concen: 42.838 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 95 Resp: 183248
Ion Ratio Lower Upper
95 100
174 85.1 0.0 182.0
176 82.2 0.0 177.8

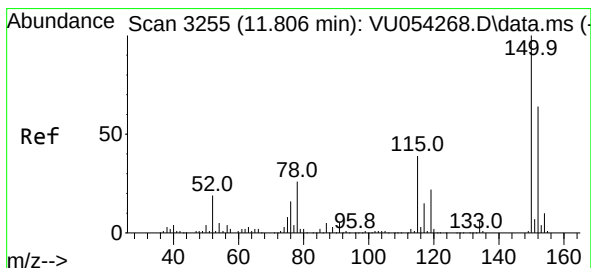
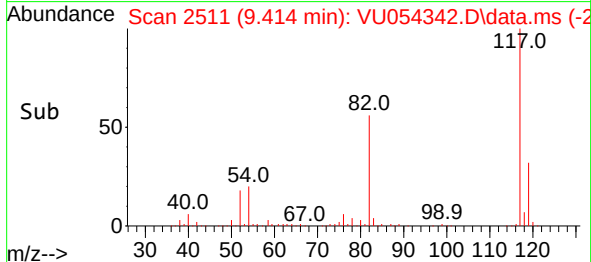
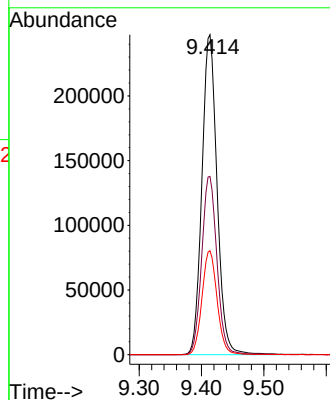
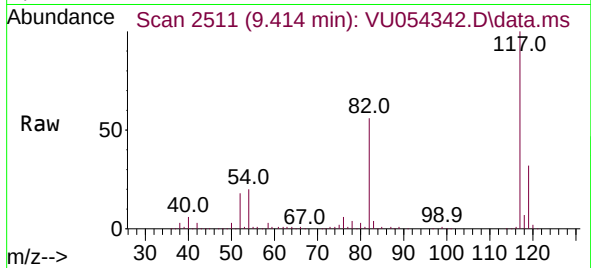




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

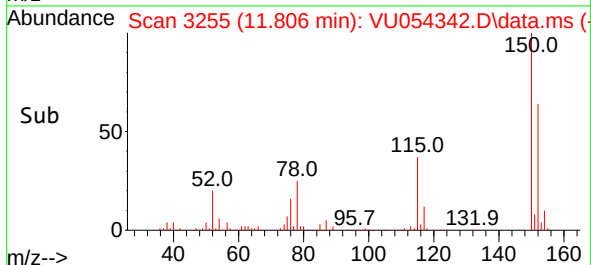
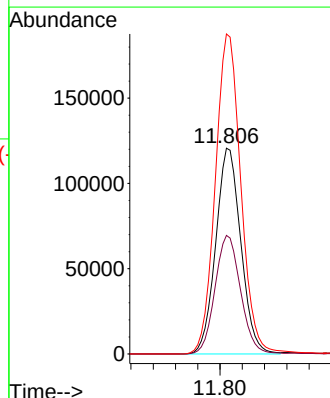
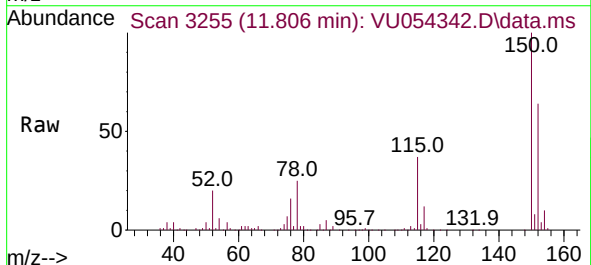
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

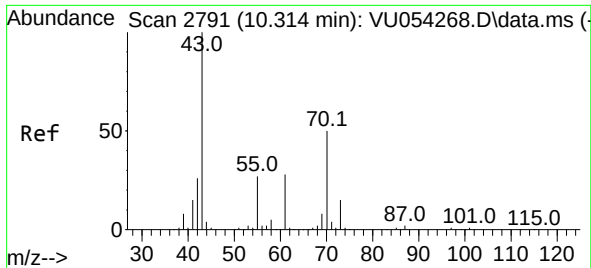
Tgt Ion:117 Resp: 417937
Ion Ratio Lower Upper
117 100
82 55.6 41.7 62.5
119 32.5 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion:152 Resp: 189152
Ion Ratio Lower Upper
152 100
115 58.4 37.0 110.9
150 158.3 0.0 342.2

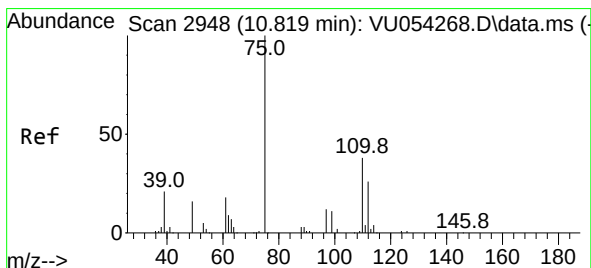
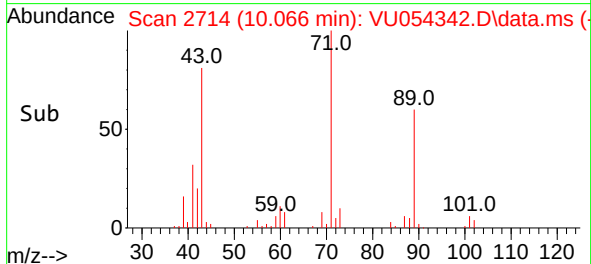
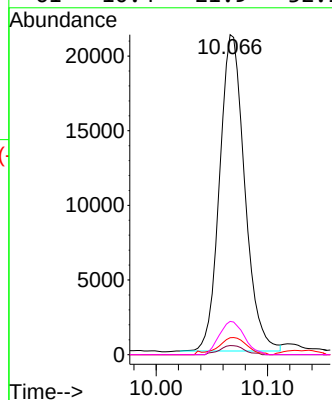
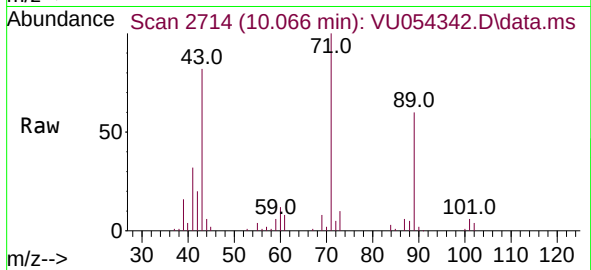




#74
N-amy1 acetate
Concen: 6.672 ug/l
RT: 10.066 min Scan# 21
Delta R.T. -0.248 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

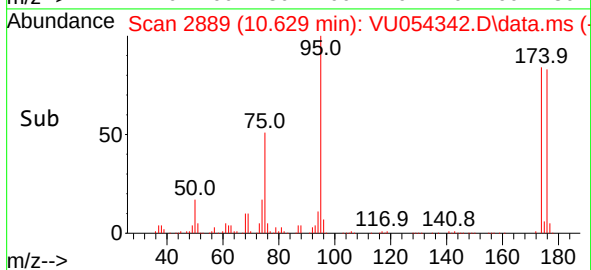
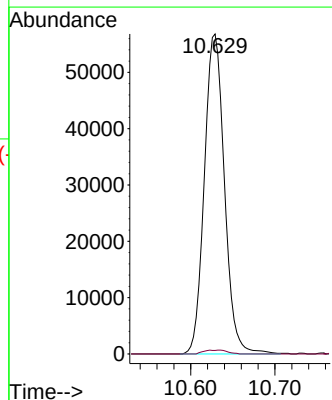
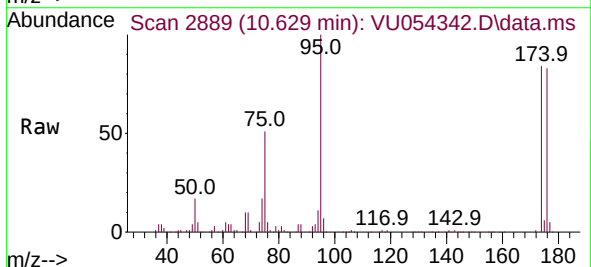
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

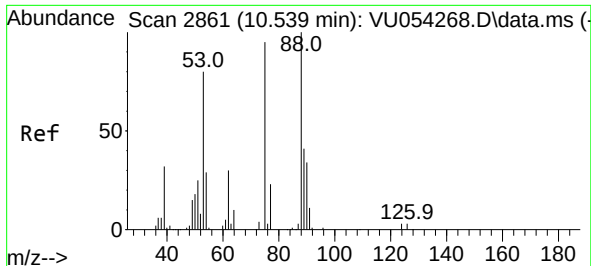
Tgt Ion: 43	Resp:	33188
Ion	Ratio	Lower Upper
43	100	
70	2.8	38.7 58.1#
55	6.1	21.8 32.8#
61	10.4	21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 17.103 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion: 75	Resp:	94421
Ion	Ratio	Lower Upper
75	100	
77	0.7	15.8 47.3#

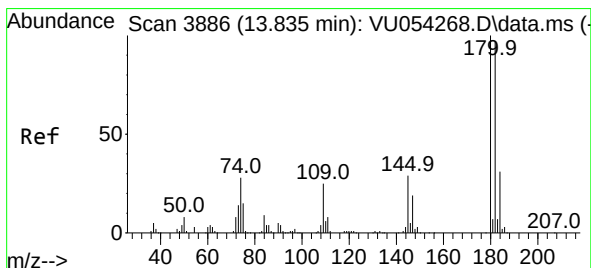
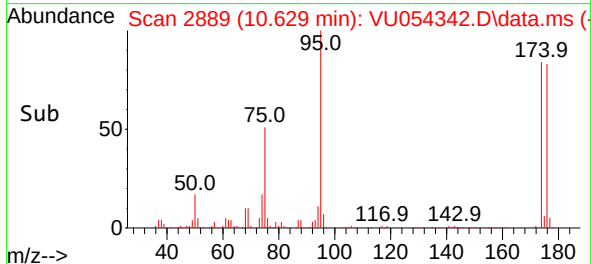
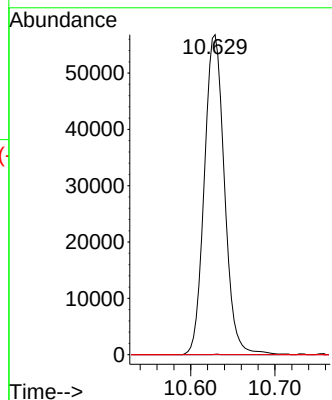
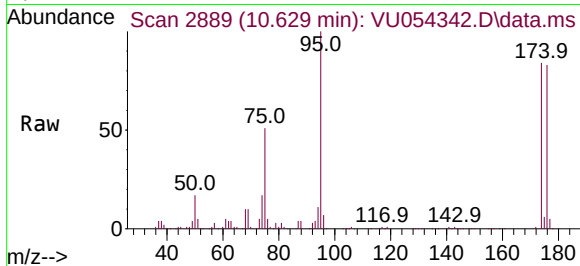




#81
trans-1,4-Dichloro-2-butene
Concen: 65.129 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.090 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

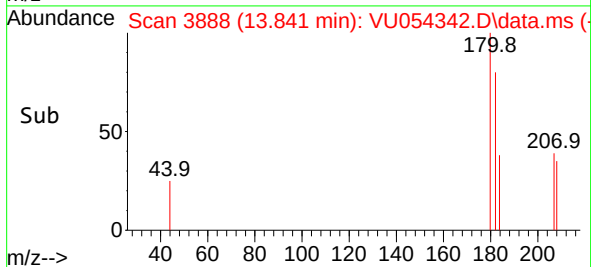
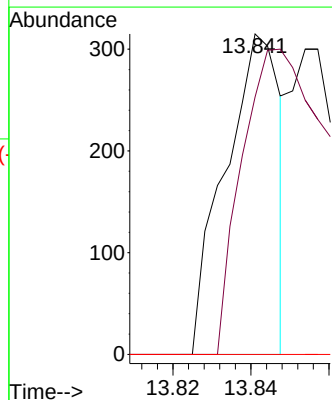
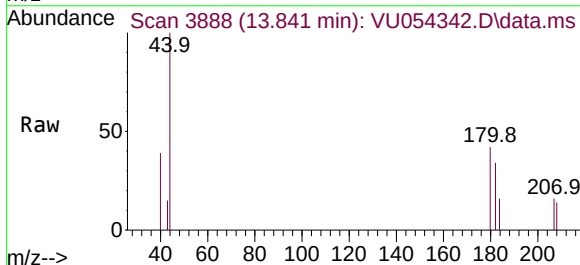
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

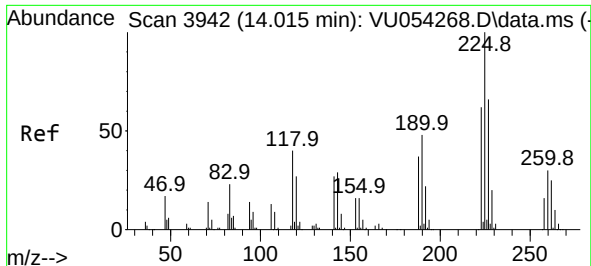
Tgt Ion: 75 Resp: 94421
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.712 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. 0.006 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion:180 Resp: 307
Ion Ratio Lower Upper
180 100
182 145.3 47.9 143.6#
145 0.0 14.0 41.9#

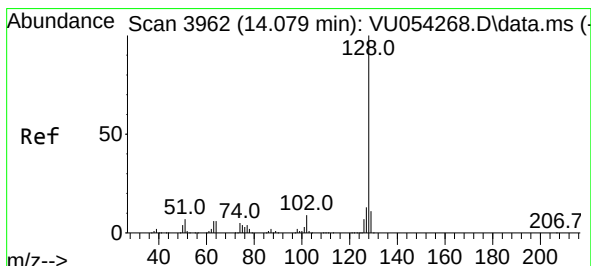
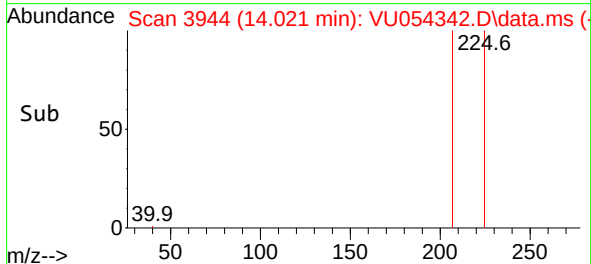
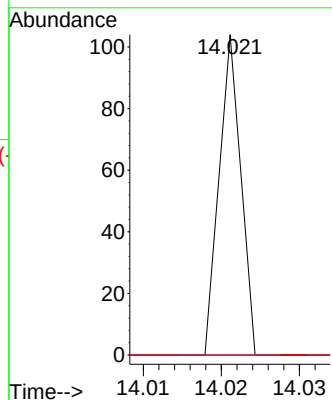
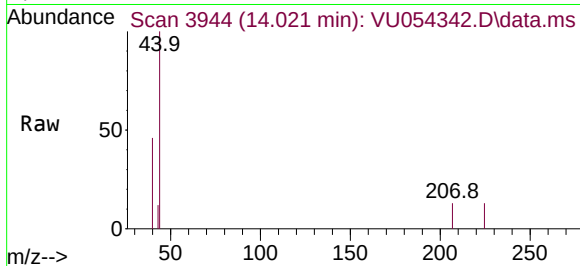




#94
Hexachlorobutadiene
Concen: 0.830 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.006 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

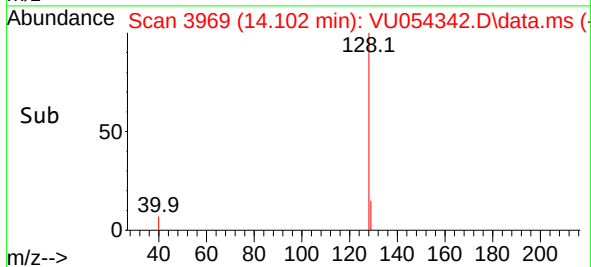
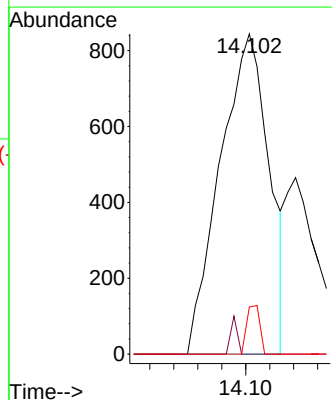
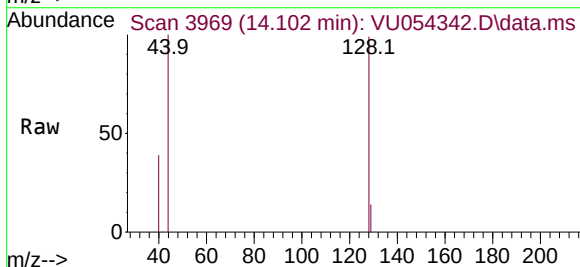
Instrument :
MSVOA_U
ClientSampleId :
PB153123ZHE#01

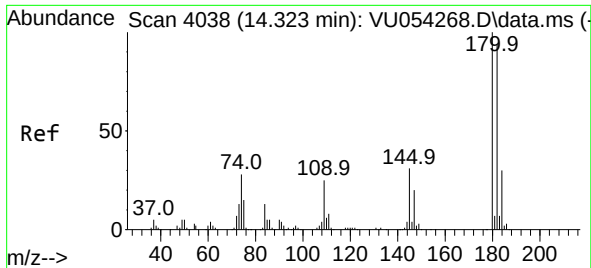
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	0.0	32.0	96.2#



#95
Naphthalene
Concen: 2.073 ug/l
RT: 14.102 min Scan# 3969
Delta R.T. 0.022 min
Lab File: VU054342.D
Acq: 31 May 2023 17:00

Tgt Ion	Ratio	Lower	Upper
128	100		
127	1.6	10.3	15.5#
129	4.1	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: VU054342.D

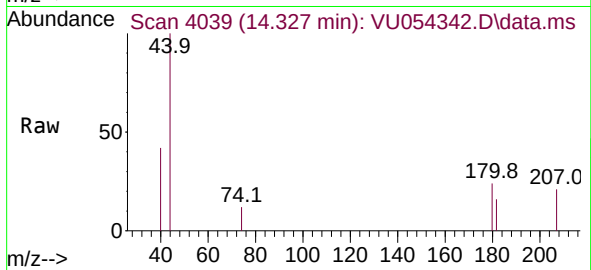
Acq: 31 May 2023 17:00

Instrument :

MSVOA_U

ClientSampleId :

PB153123ZHE#01



Tgt Ion:180 Resp: 178

Ion Ratio Lower Upper

180 100

182 151.1 48.4 145.0#

145 11.8 14.8 44.4#

