

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054334.D
 Acq On : 31 May 2023 13:51
 Operator : JC/MD
 Sample : 02936-21DL 100X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-02-20230524DL

Quant Time: Jun 01 05:14:59 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)

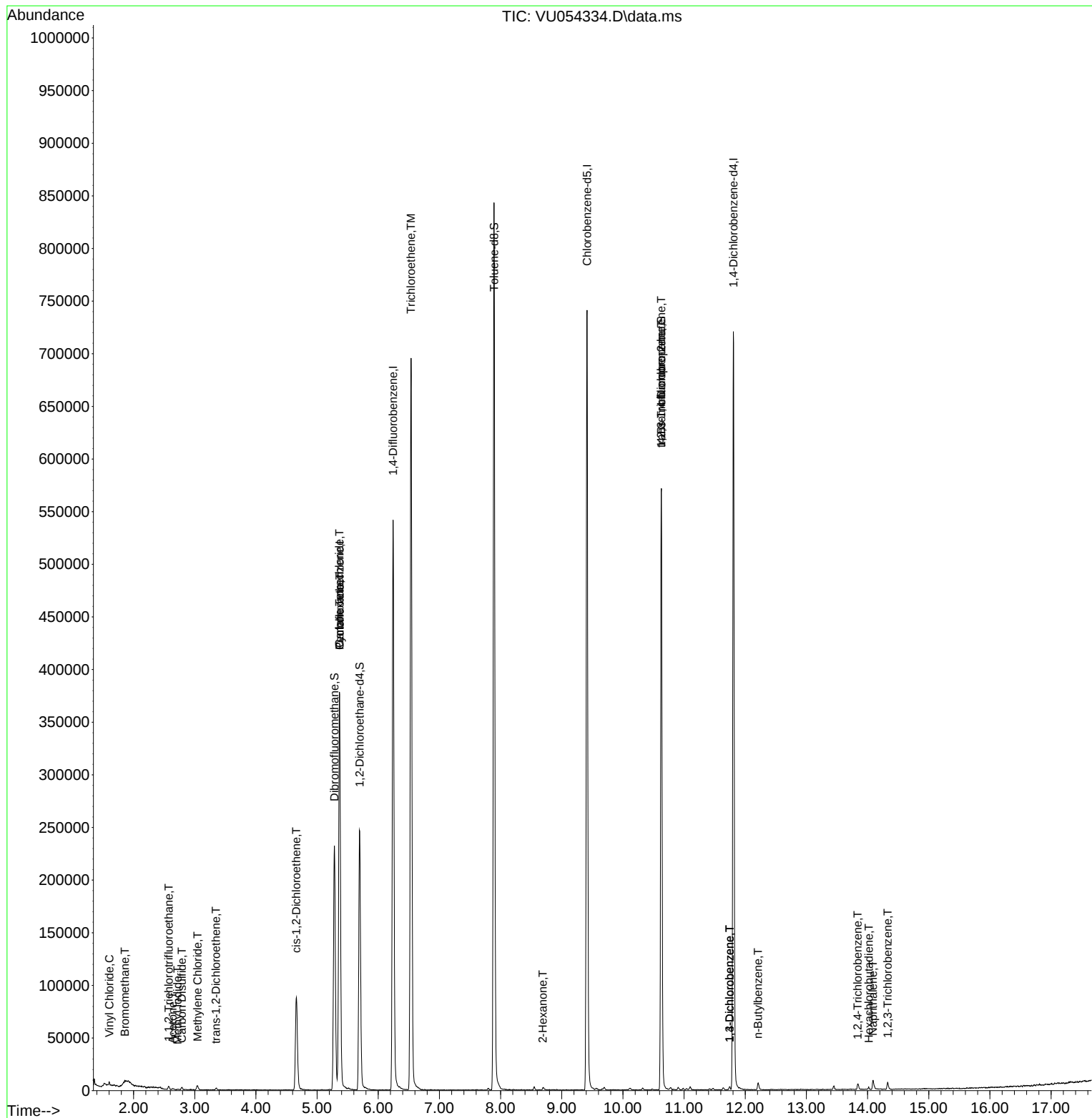
Internal Standards						
1) Pentafluorobenzene	5.369	168	273233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	448171	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	422188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	198174	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	187761	52.421	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.840%	
35) Dibromofluoromethane	5.282	113	153162	53.068	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.140%	
50) Toluene-d8	7.893	98	562254	51.217	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.440%	
62) 4-Bromofluorobenzene	10.629	95	191907	45.085	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 90.160%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.604	62	2489	0.653	ug/l #	87
5) Bromomethane	1.858	94	715	0.339	ug/l #	70
9) 1,1,2-Trichlorotrifluo...	2.575	101	859	0.303	ug/l #	82
10) Methyl Iodide	2.719	142	264	2.405	ug/l #	86
16) Acetone	2.639	43	880	0.429	ug/l #	75
17) Carbon Disulfide	2.790	76	2782	0.320	ug/l	96
20) Methylene Chloride	3.047	84	1929	0.521	ug/l #	86
21) trans-1,2-Dichloroethene	3.346	96	665	0.211	ug/l #	82
27) cis-1,2-Dichloroethene	4.661	96	50008	14.287	ug/l	95
31) Cyclohexane	5.369	56	4976	0.984	ug/l #	1
38) Carbon Tetrachloride	5.366	117	27122	5.845	ug/l #	16
44) Trichloroethene	6.536	130	243551	67.382	ug/l	93
59) 2-Hexanone	8.690	43	1732	0.431	ug/l	82
76) 1,2,3-Trichloropropane	10.626	75	95566	16.523	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	95566	62.918	ug/l #	15
87) 1,3-Dichlorobenzene	11.745	146	1464	0.224	ug/l	84
88) 1,4-Dichlorobenzene	11.745	146	1464	0.215	ug/l	85
89) n-Butylbenzene	12.208	91	2965	0.283	ug/l #	71
93) 1,2,4-Trichlorobenzene	13.838	180	2251	2.121	ug/l	90
94) Hexachlorobutadiene	14.021	225	482	1.045	ug/l	84
95) Naphthalene	14.089	128	10080	2.652	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.330	180	2806	1.860	ug/l	94

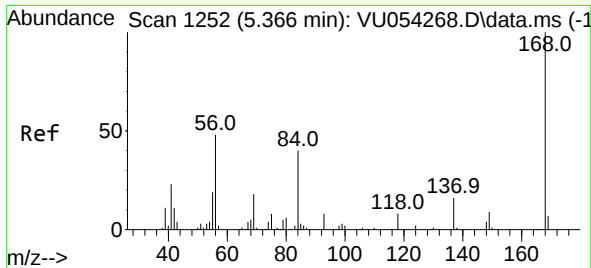
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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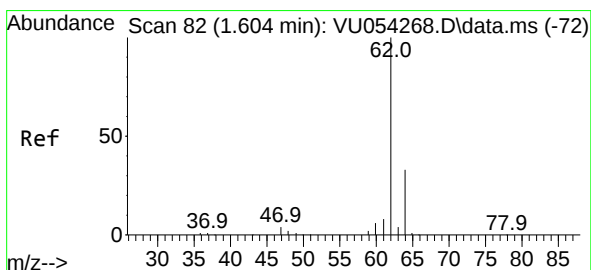
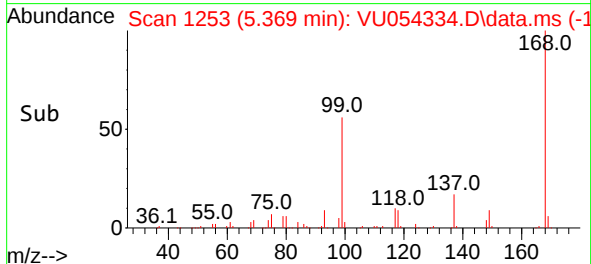
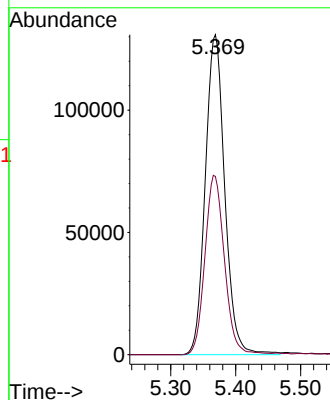
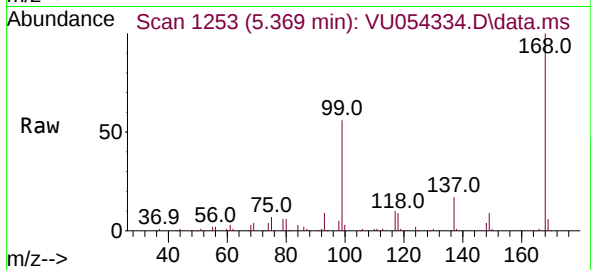




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

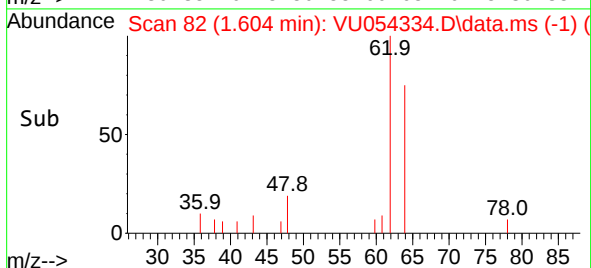
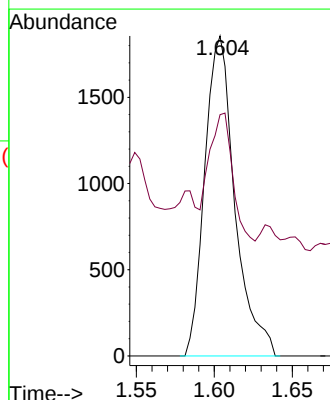
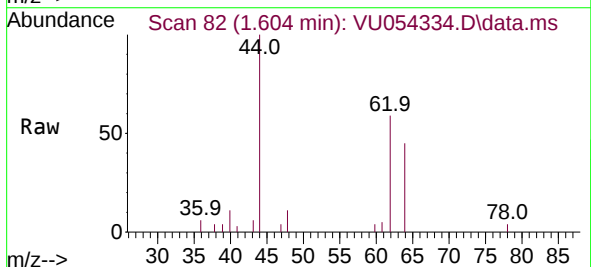
Instrument :
MSVOA_U
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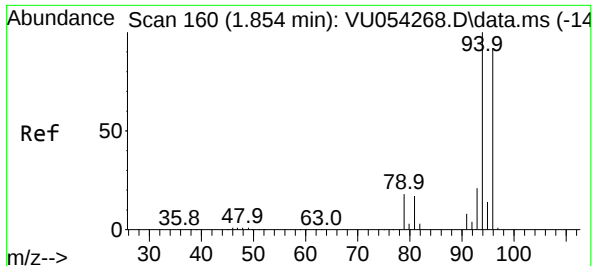
Tgt Ion:168 Resp: 273233
Ion Ratio Lower Upper
168 100
99 55.7 39.3 58.9



#4
Vinyl Chloride
Concen: 0.653 ug/l
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 62 Resp: 2489
Ion Ratio Lower Upper
62 100
64 39.1 25.3 37.9#

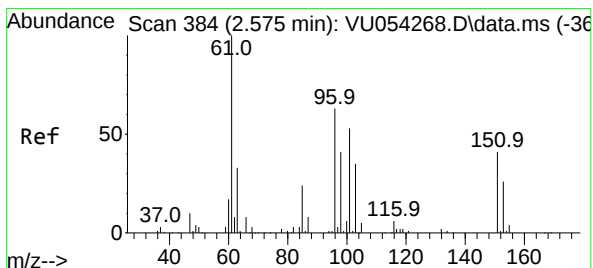
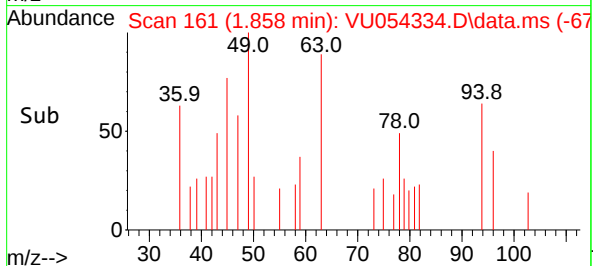
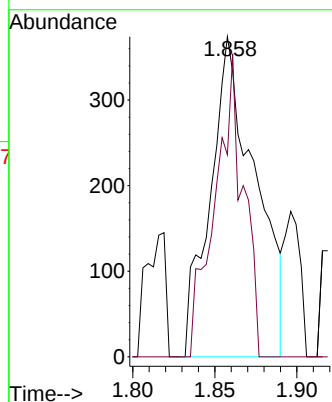
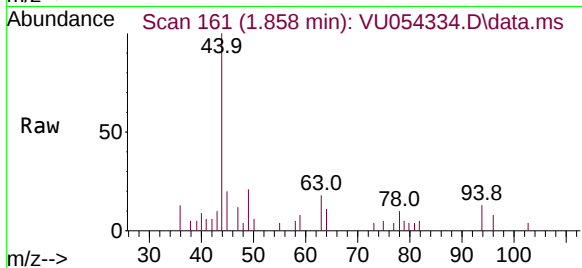




#5
Bromomethane
Concen: 0.339 ug/l
RT: 1.858 min Scan# 1
Delta R.T. 0.004 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

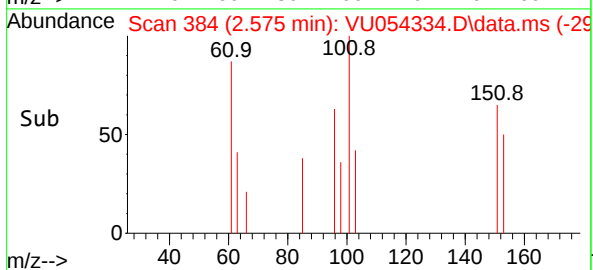
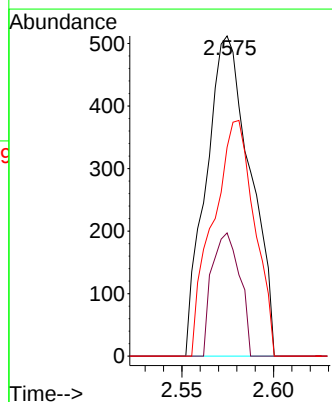
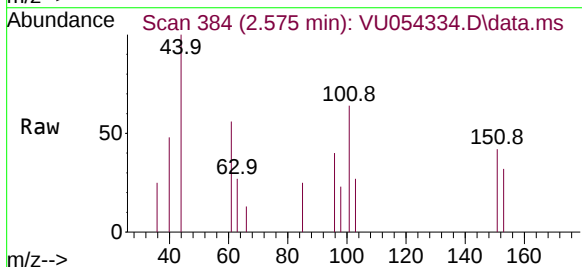
Instrument :
MSVOA_U
ClientSampleId :
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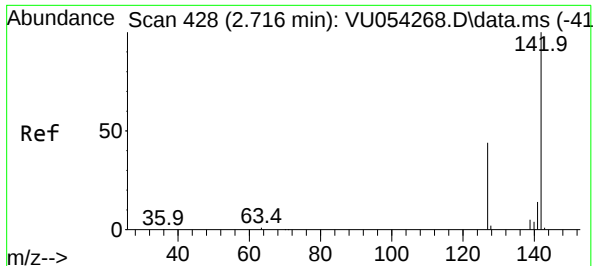
Tgt Ion: 94 Resp: 715
Ion Ratio Lower Upper
94 100
96 63.1 73.7 110.5#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.303 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion:101 Resp: 859
Ion Ratio Lower Upper
101 100
85 24.2 33.9 50.9#
151 69.2 64.0 96.0

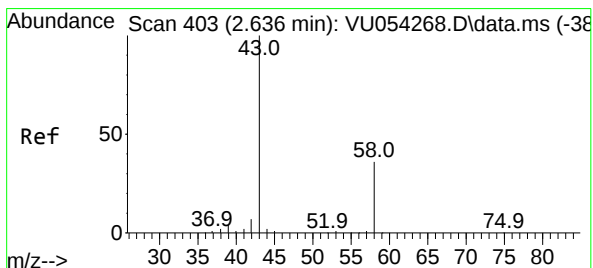
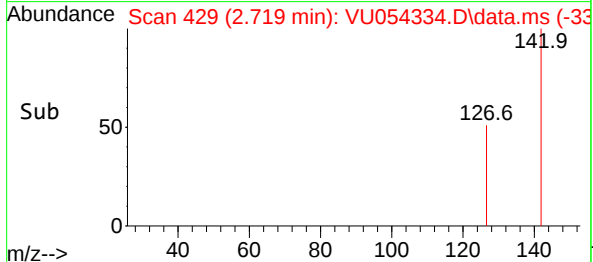
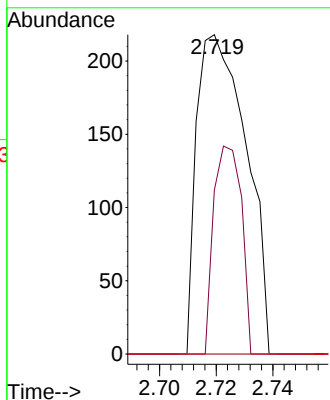
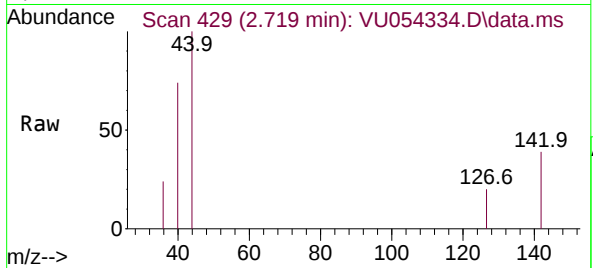




#10
Methyl Iodide
Concen: 2.405 ug/l
RT: 2.719 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

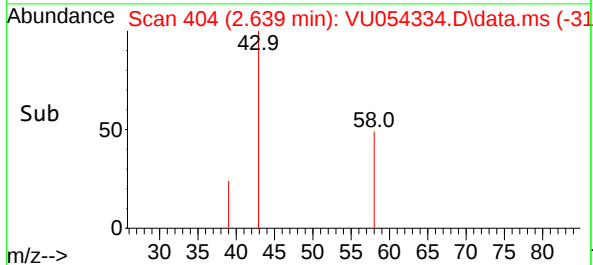
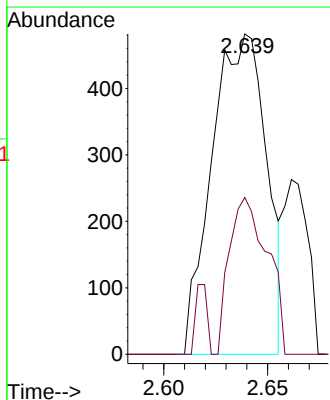
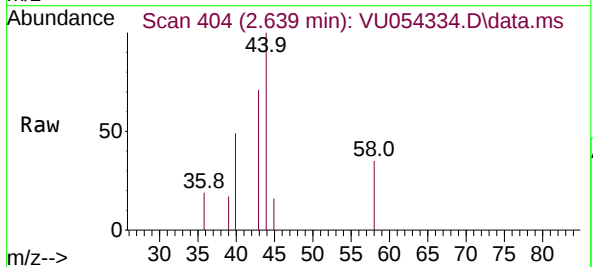
Instrument :
MSVOA_U
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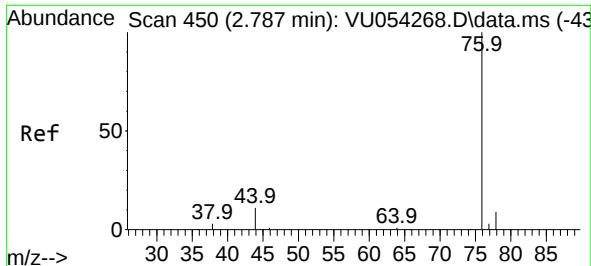
Tgt Ion:142 Resp: 264
Ion Ratio Lower Upper
142 100
127 36.7 32.5 48.7
141 0.0 11.4 17.0#



#16
Acetone
Concen: 0.429 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 43 Resp: 880
Ion Ratio Lower Upper
43 100
58 49.0 27.5 41.3#

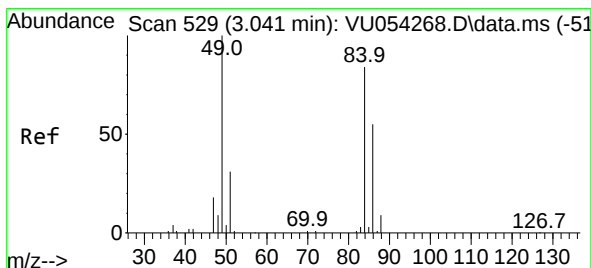
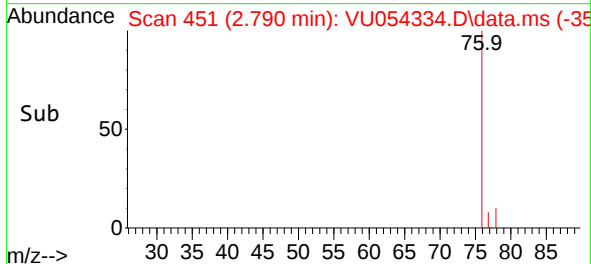
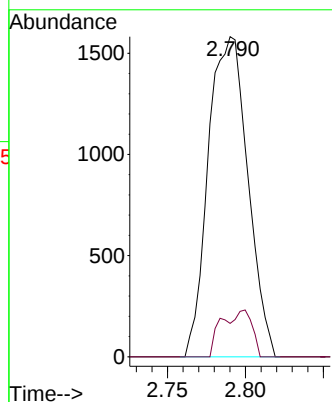
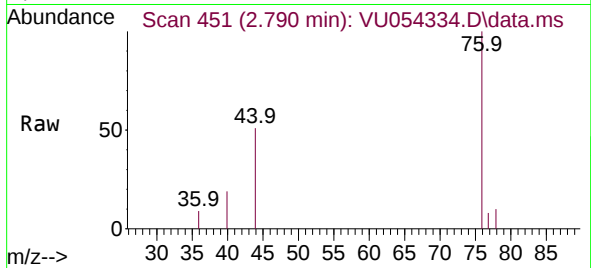




#17
Carbon Disulfide
Concen: 0.320 ug/l
RT: 2.790 min Scan# 417
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

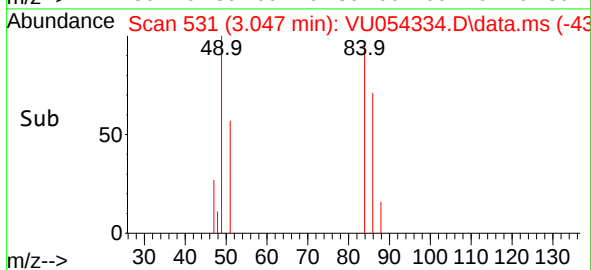
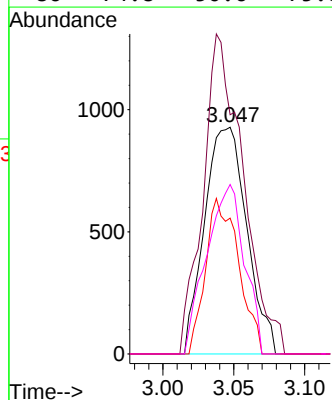
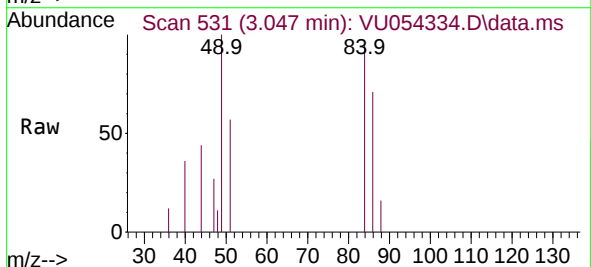
Instrument :
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ClientSampleId :
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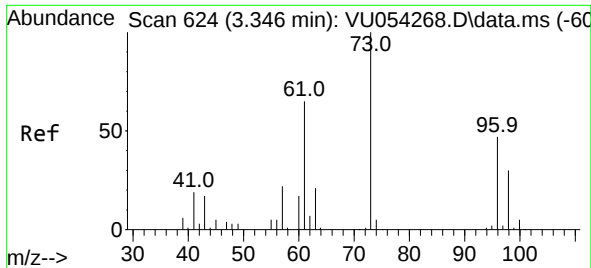
Tgt Ion: 76 Resp: 2782
Ion Ratio Lower Upper
76 100
78 10.4 7.3 10.9



#20
Methylene Chloride
Concen: 0.521 ug/l
RT: 3.047 min Scan# 531
Delta R.T. 0.006 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 84 Resp: 1929
Ion Ratio Lower Upper
84 100
49 105.5 86.6 129.8
51 59.9 26.6 40.0#
86 74.8 50.6 75.8

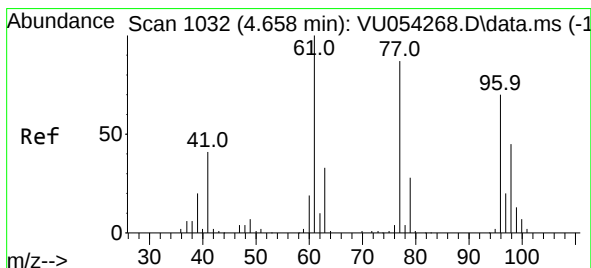
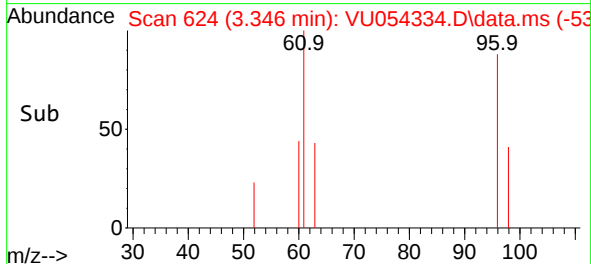
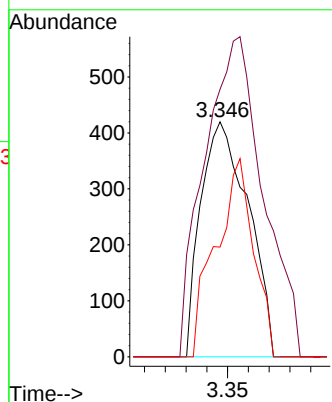
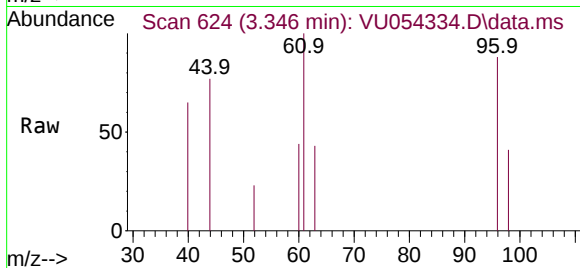




#21
trans-1,2-Dichloroethene
Concen: 0.211 ug/l
RT: 3.346 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

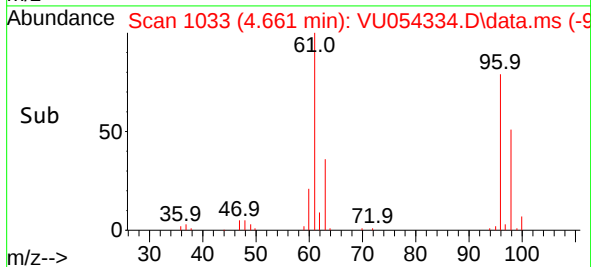
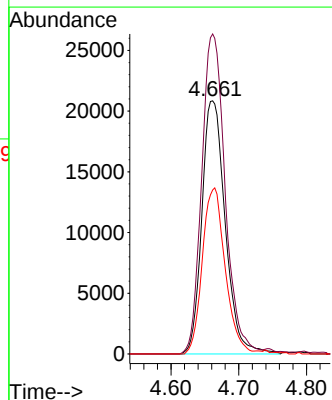
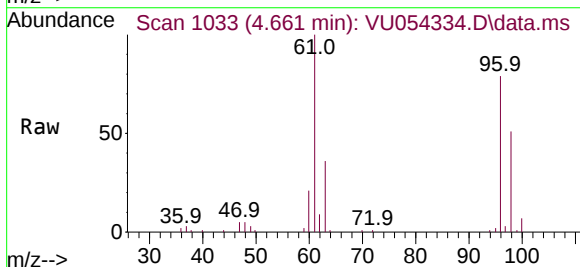
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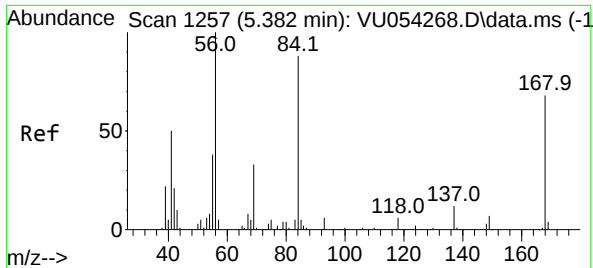
Tgt Ion: 96 Resp: 665
Ion Ratio Lower Upper
96 100
61 113.8 106.1 159.1
98 46.7 50.8 76.2#



#27
cis-1,2-Dichloroethene
Concen: 14.287 ug/l
RT: 4.661 min Scan# 1033
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 96 Resp: 50008
Ion Ratio Lower Upper
96 100
61 126.5 0.0 271.6
98 64.1 0.0 128.2

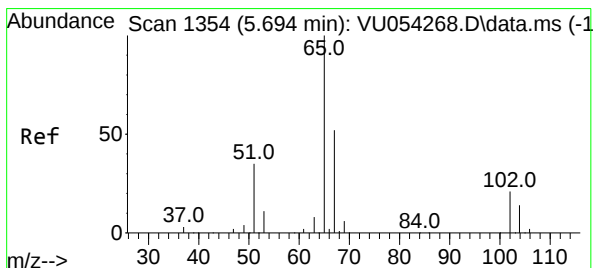
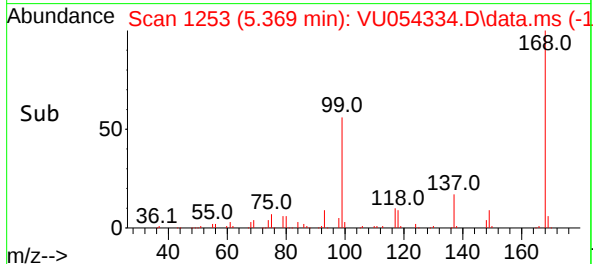
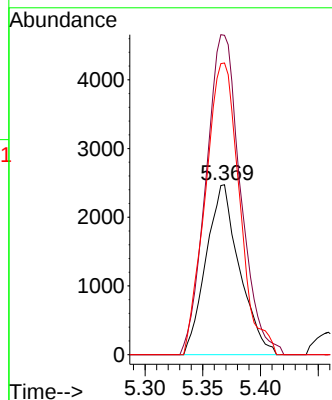
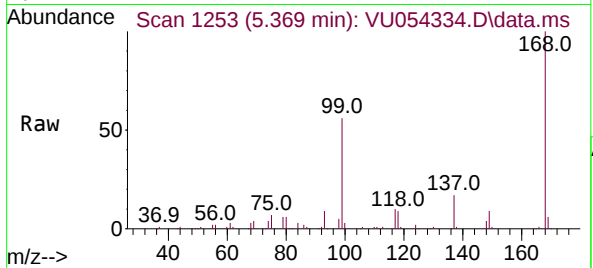




#31
Cyclohexane
Concen: 0.984 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.013 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

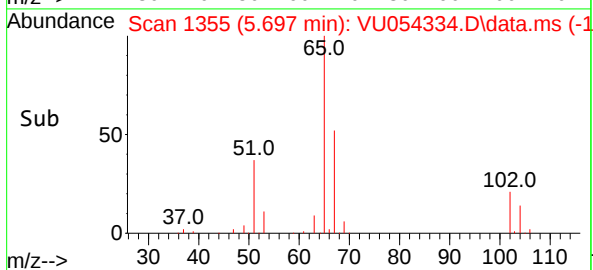
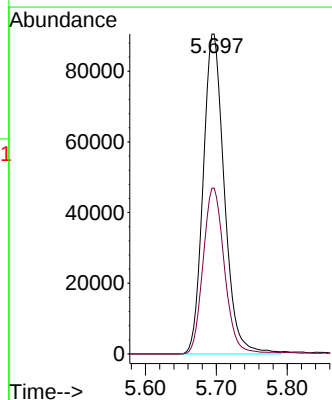
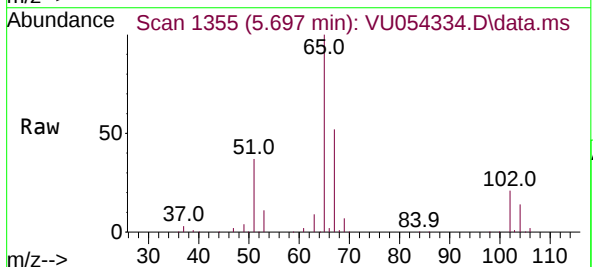
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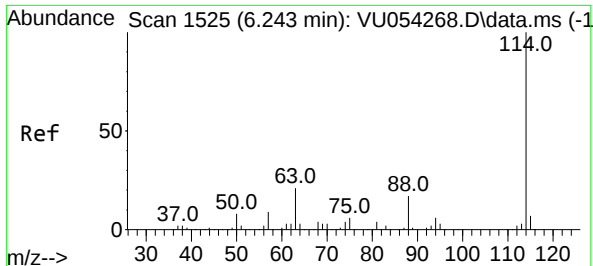
Tgt Ion: 56 Resp: 4976
Ion Ratio Lower Upper
56 100
69 187.9 27.8 41.8#
84 171.7 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 52.421 ug/l
RT: 5.697 min Scan# 1355
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 65 Resp: 187761
Ion Ratio Lower Upper
65 100
67 52.2 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054334.D

Acq: 31 May 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

DUP-02-20230524DL

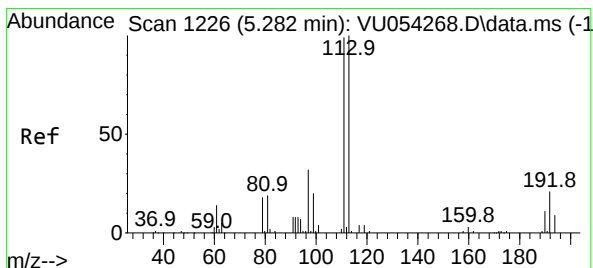
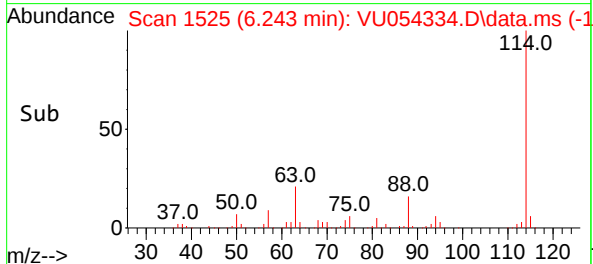
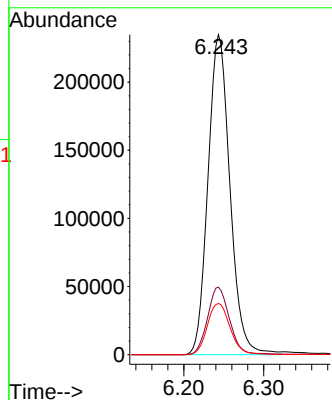
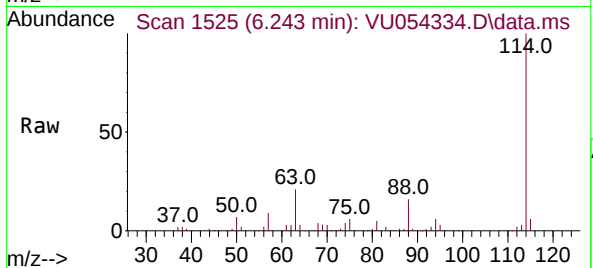
Tgt Ion:114 Resp: 448171

Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 16.0 0.0 29.2



#35

Dibromofluoromethane

Concen: 53.068 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VU054334.D

Acq: 31 May 2023 13:51

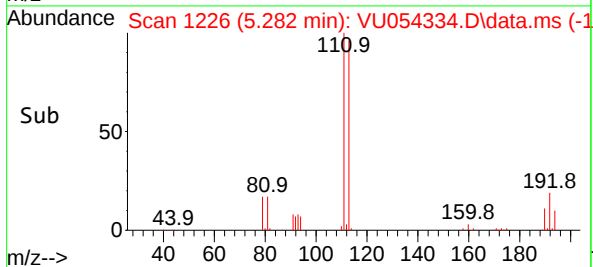
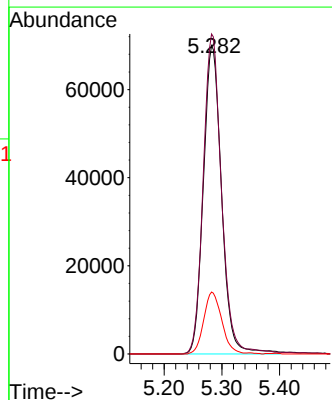
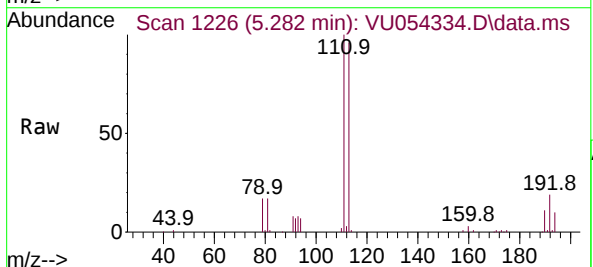
Tgt Ion:113 Resp: 153162

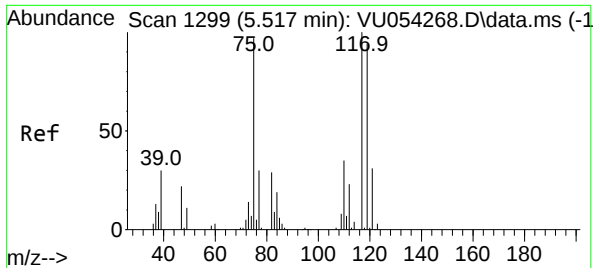
Ion Ratio Lower Upper

113 100

111 104.1 82.1 123.1

192 19.9 18.0 27.0

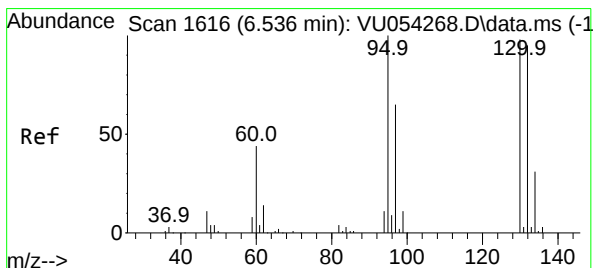
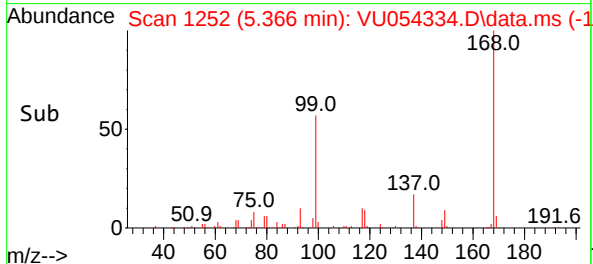
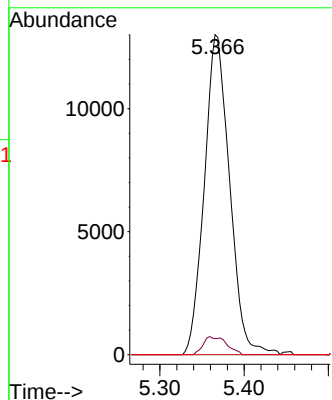
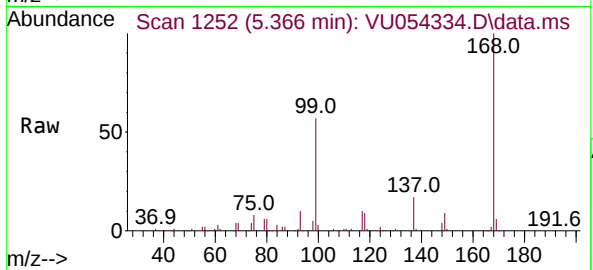




#38
Carbon Tetrachloride
Concen: 5.845 ug/l
RT: 5.366 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

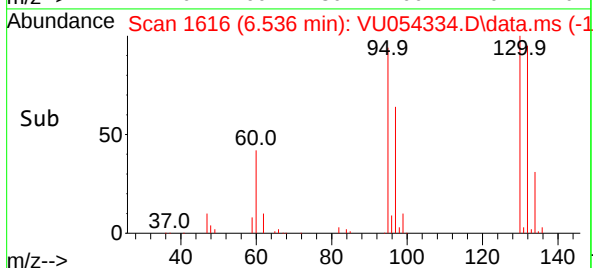
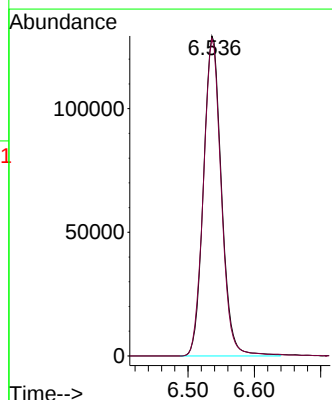
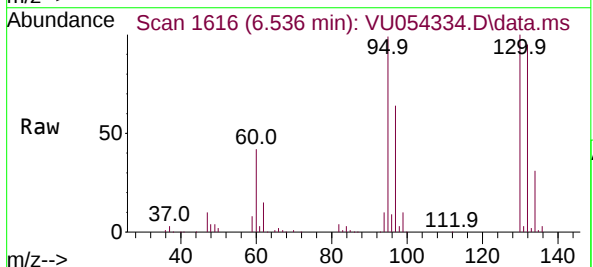
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

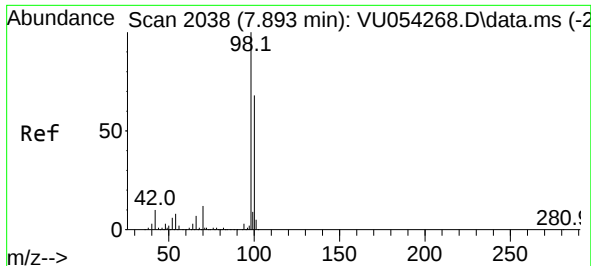
Tgt Ion:117 Resp: 27122
Ion Ratio Lower Upper
117 100
119 5.0 76.8 115.2#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 67.382 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion:130 Resp: 243551
Ion Ratio Lower Upper
130 100
95 99.2 0.0 184.6

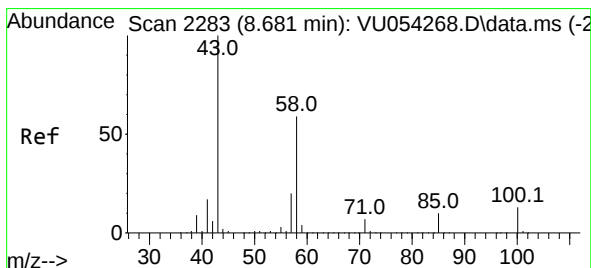
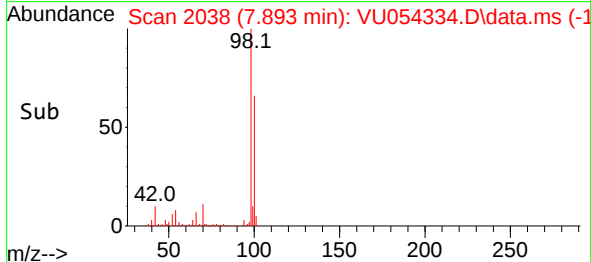
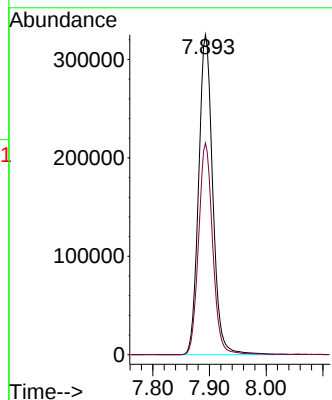
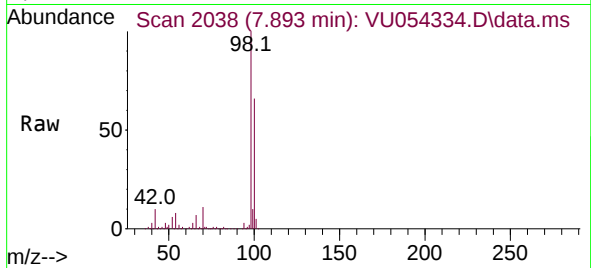




#50
Toluene-d8
Concen: 51.217 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

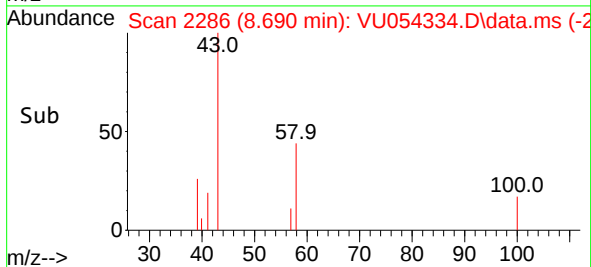
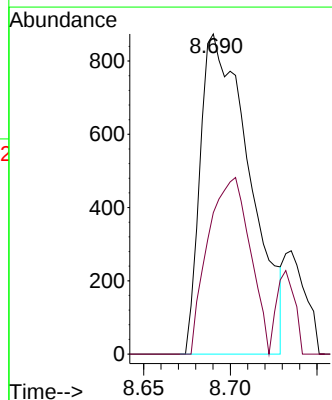
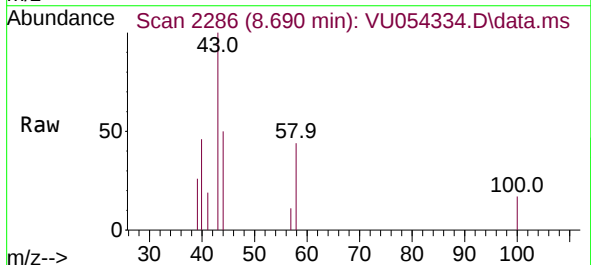
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

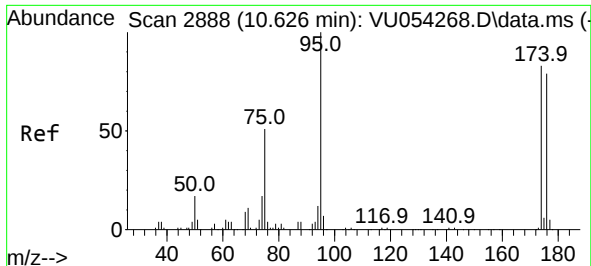
Tgt Ion: 98 Resp: 562254
Ion Ratio Lower Upper
98 100
100 66.2 51.7 77.5



#59
2-Hexanone
Concen: 0.431 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. 0.009 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 43 Resp: 1732
Ion Ratio Lower Upper
43 100
58 46.7 30.3 90.8

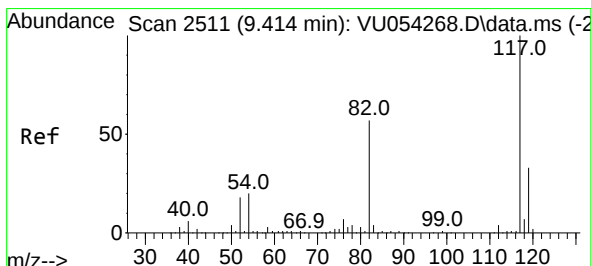
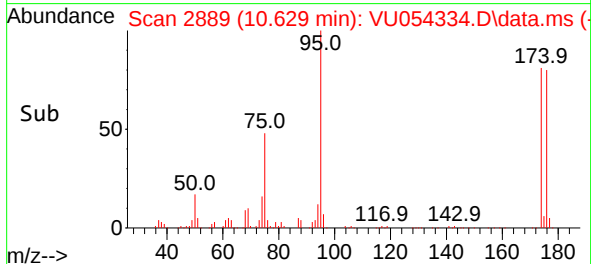
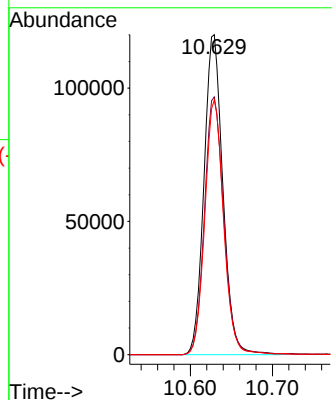
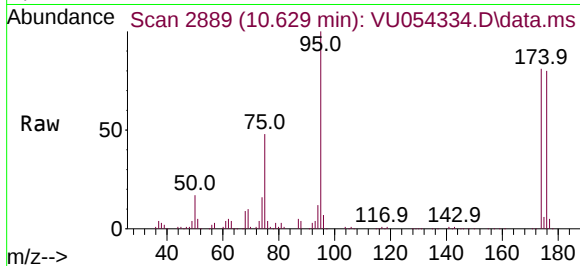




#62
4-Bromofluorobenzene
Concen: 45.085 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

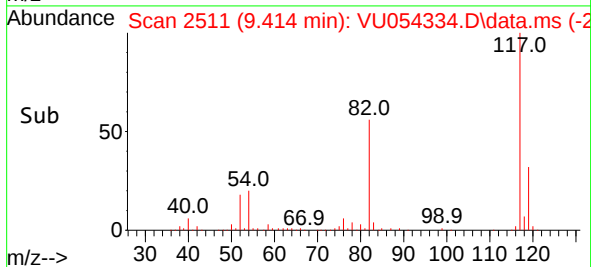
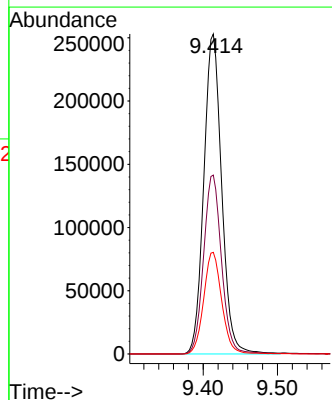
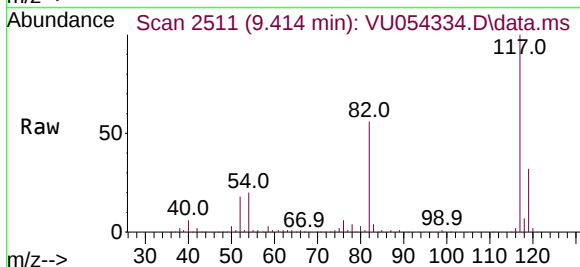
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

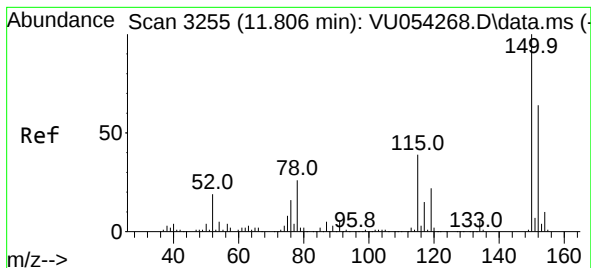
Tgt Ion: 95 Resp: 191907
Ion Ratio Lower Upper
95 100
174 82.8 0.0 182.0
176 79.1 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 117 Resp: 422188
Ion Ratio Lower Upper
117 100
82 55.9 41.7 62.5
119 31.7 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: VU054334.D

Acq: 31 May 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

DUP-02-20230524DL

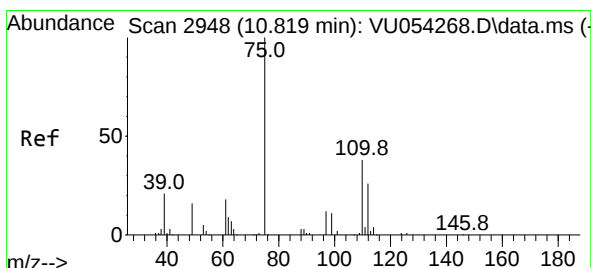
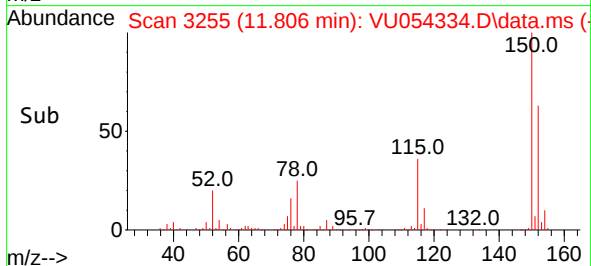
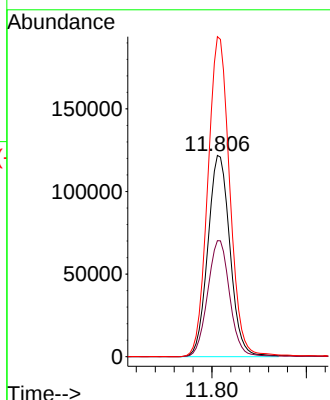
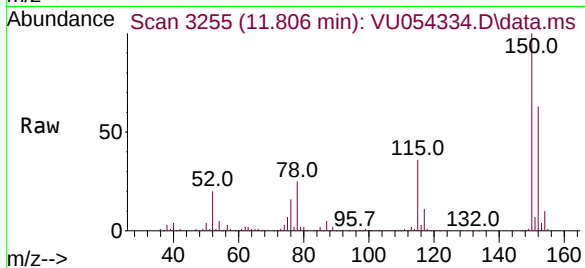
Tgt Ion:152 Resp: 198174

Ion Ratio Lower Upper

152 100

115 57.6 37.0 110.9

150 158.0 0.0 342.2



#76

1,2,3-Trichloropropane

Concen: 16.523 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054334.D

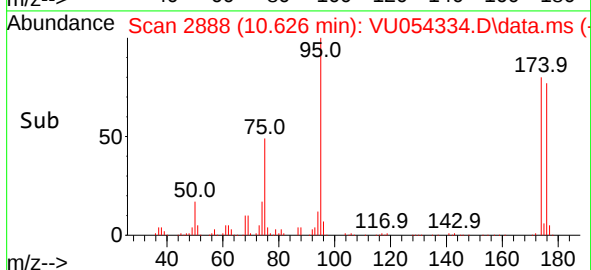
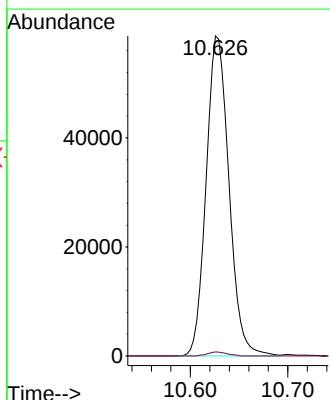
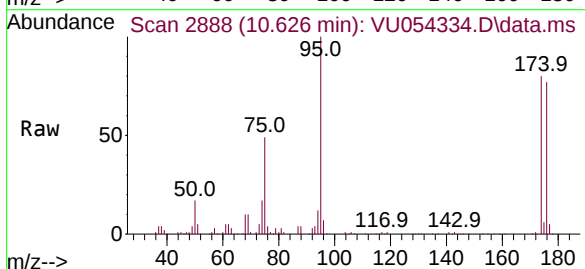
Acq: 31 May 2023 13:51

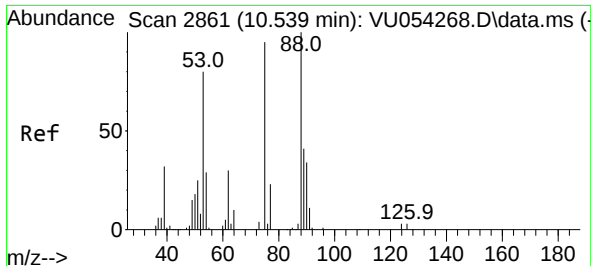
Tgt Ion: 75 Resp: 95566

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#

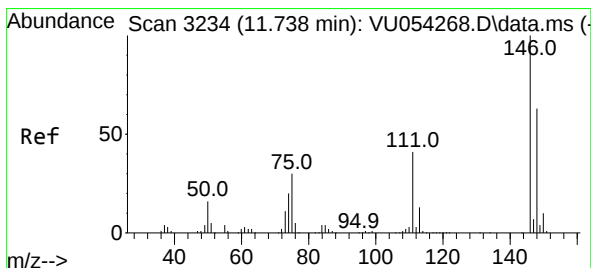
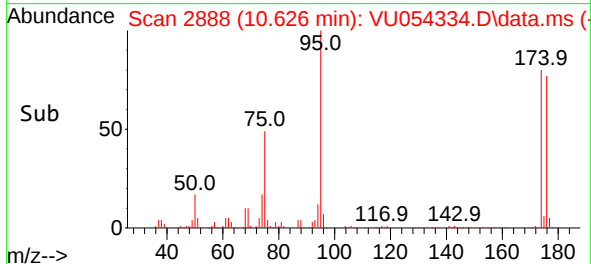
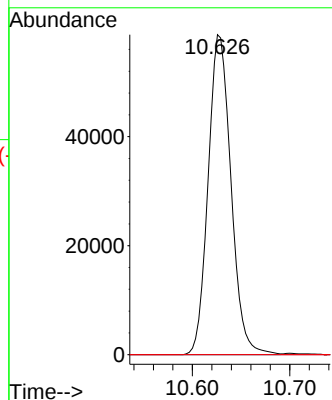
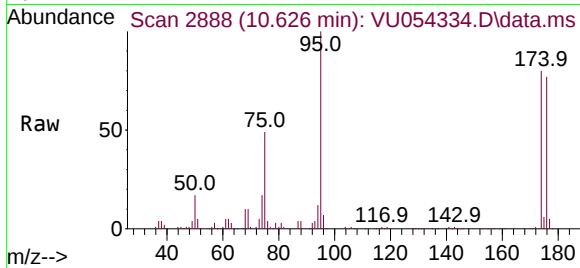




#81
trans-1,4-Dichloro-2-butene
Concen: 62.918 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

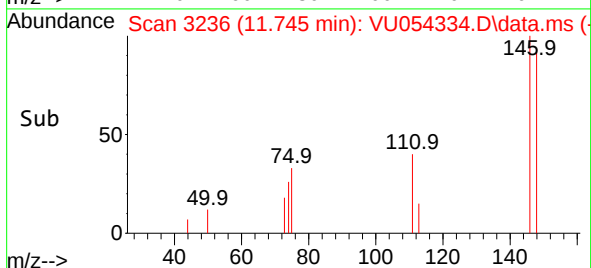
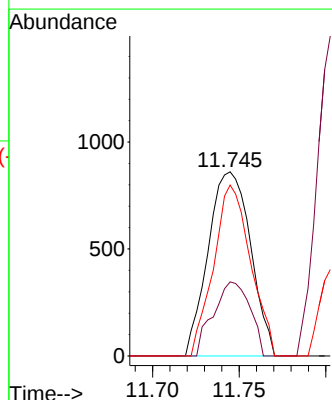
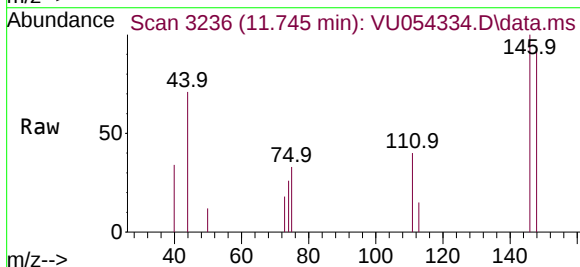
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

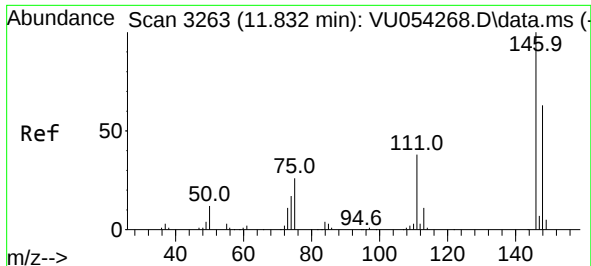
Tgt Ion: 75 Resp: 95566
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#87
1,3-Dichlorobenzene
Concen: 0.224 ug/l
RT: 11.745 min Scan# 3236
Delta R.T. 0.007 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

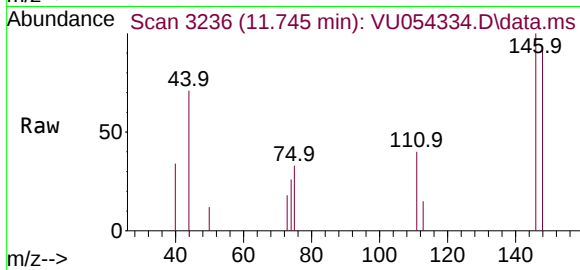
Tgt Ion:146 Resp: 1464
Ion Ratio Lower Upper
146 100
111 34.8 18.9 56.5
148 81.1 31.9 95.9



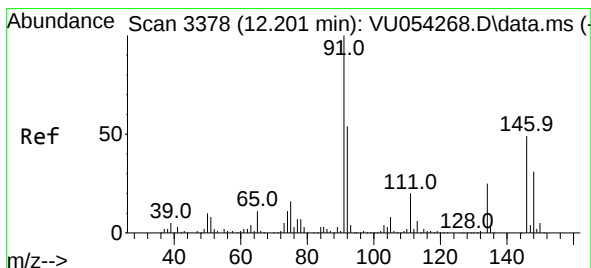
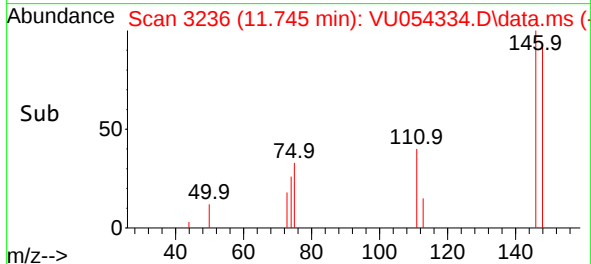
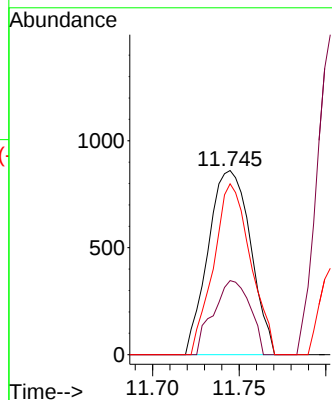


#88
1,4-Dichlorobenzene
Concen: 0.215 ug/l
RT: 11.745 min Scan# 31
Delta R.T. -0.087 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

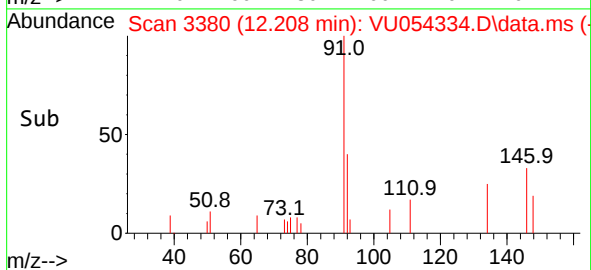
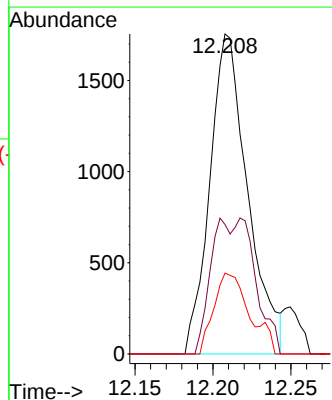
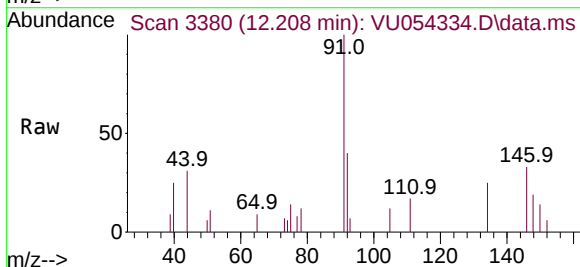


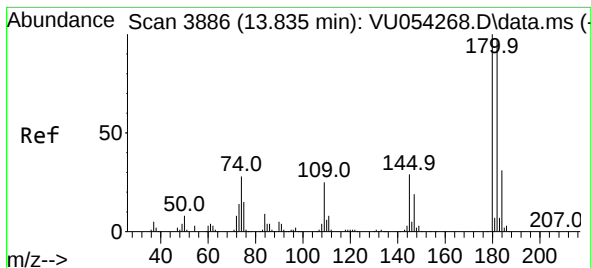
Tgt Ion:146 Resp: 1464
Ion Ratio Lower Upper
146 100
111 34.8 18.5 55.5
148 81.1 31.9 95.7



#89
n-Butylbenzene
Concen: 0.283 ug/l
RT: 12.208 min Scan# 3380
Delta R.T. 0.007 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion: 91 Resp: 2965
Ion Ratio Lower Upper
91 100
92 23.2 26.2 78.6#
134 23.8 13.5 40.4





#93

1,2,4-Trichlorobenzene

Concen: 2.121 ug/l

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

Lab File: VU054334.D

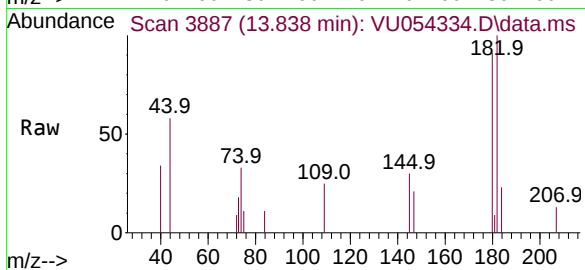
Acq: 31 May 2023 13:51

Instrument :

MSVOA_U

ClientSampleId :

DUP-02-20230524DL



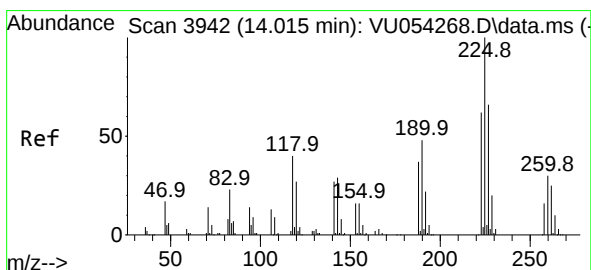
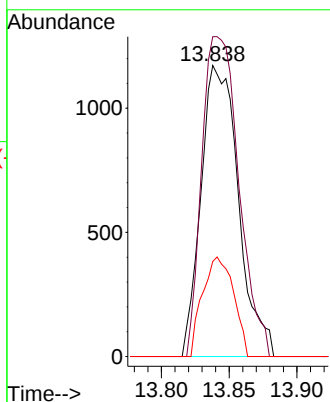
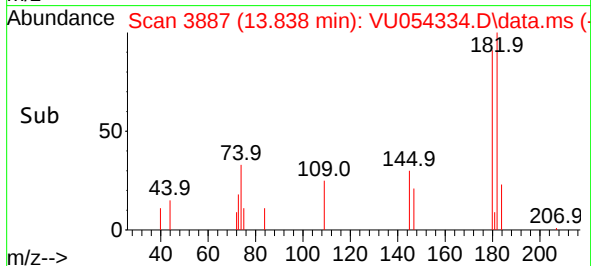
Tgt Ion:180 Resp: 2251

Ion Ratio Lower Upper

180 100

182 108.6 47.9 143.6

145 28.3 14.0 41.9



#94

Hexachlorobutadiene

Concen: 1.045 ug/l

RT: 14.021 min Scan# 3944

Delta R.T. 0.006 min

Lab File: VU054334.D

Acq: 31 May 2023 13:51

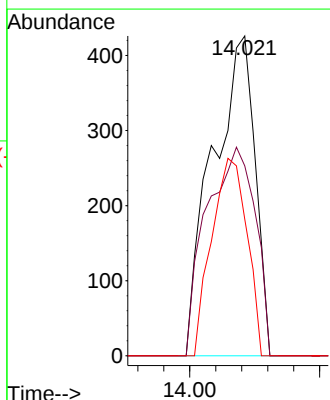
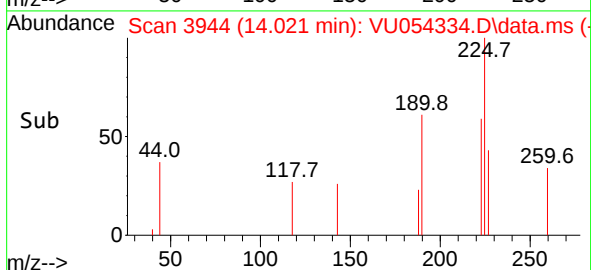
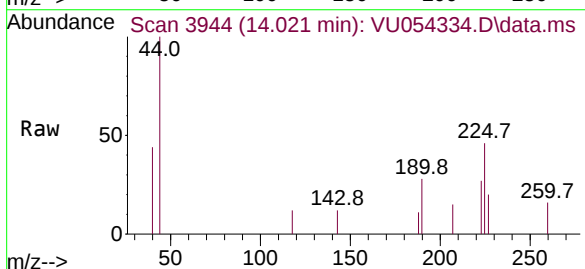
Tgt Ion:225 Resp: 482

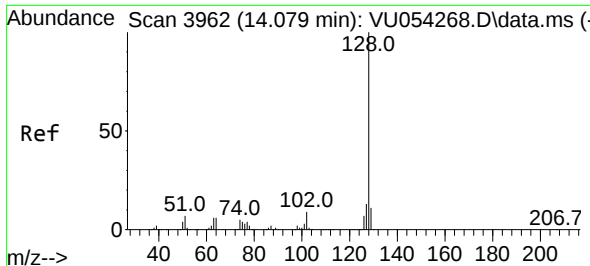
Ion Ratio Lower Upper

225 100

223 74.9 31.3 93.9

227 51.5 32.0 96.2

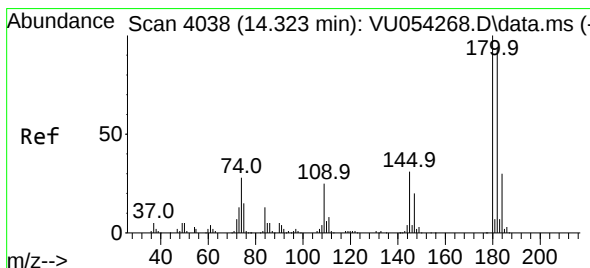
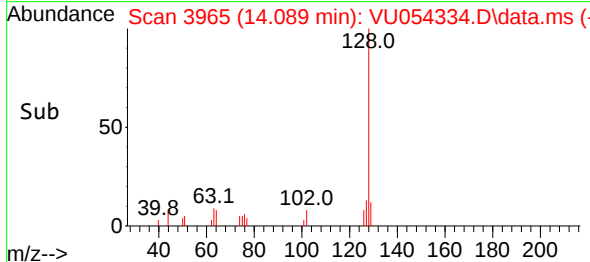
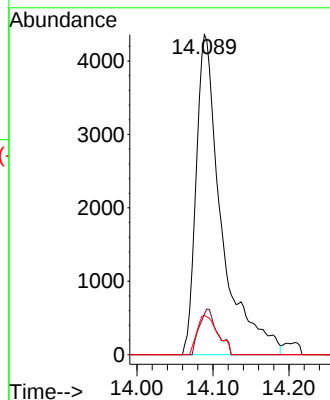
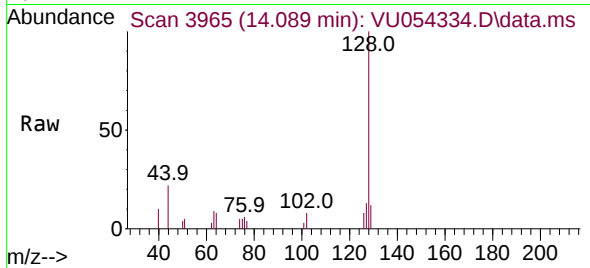




#95
Naphthalene
Concen: 2.652 ug/l
RT: 14.089 min Scan# 3962
Delta R.T. 0.010 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524DL

Tgt Ion:128 Resp: 10080
Ion Ratio Lower Upper
128 100
127 10.2 10.3 15.5#
129 10.1 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.860 ug/l
RT: 14.330 min Scan# 4040
Delta R.T. 0.007 min
Lab File: VU054334.D
Acq: 31 May 2023 13:51

Tgt Ion:180 Resp: 2806
Ion Ratio Lower Upper
180 100
182 90.8 48.4 145.0
145 26.8 14.8 44.4

