

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054331.D
 Acq On : 31 May 2023 12:18
 Operator : JC/MD
 Sample : VU0531WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0531WBL01

Quant Time: Jun 01 05:13:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

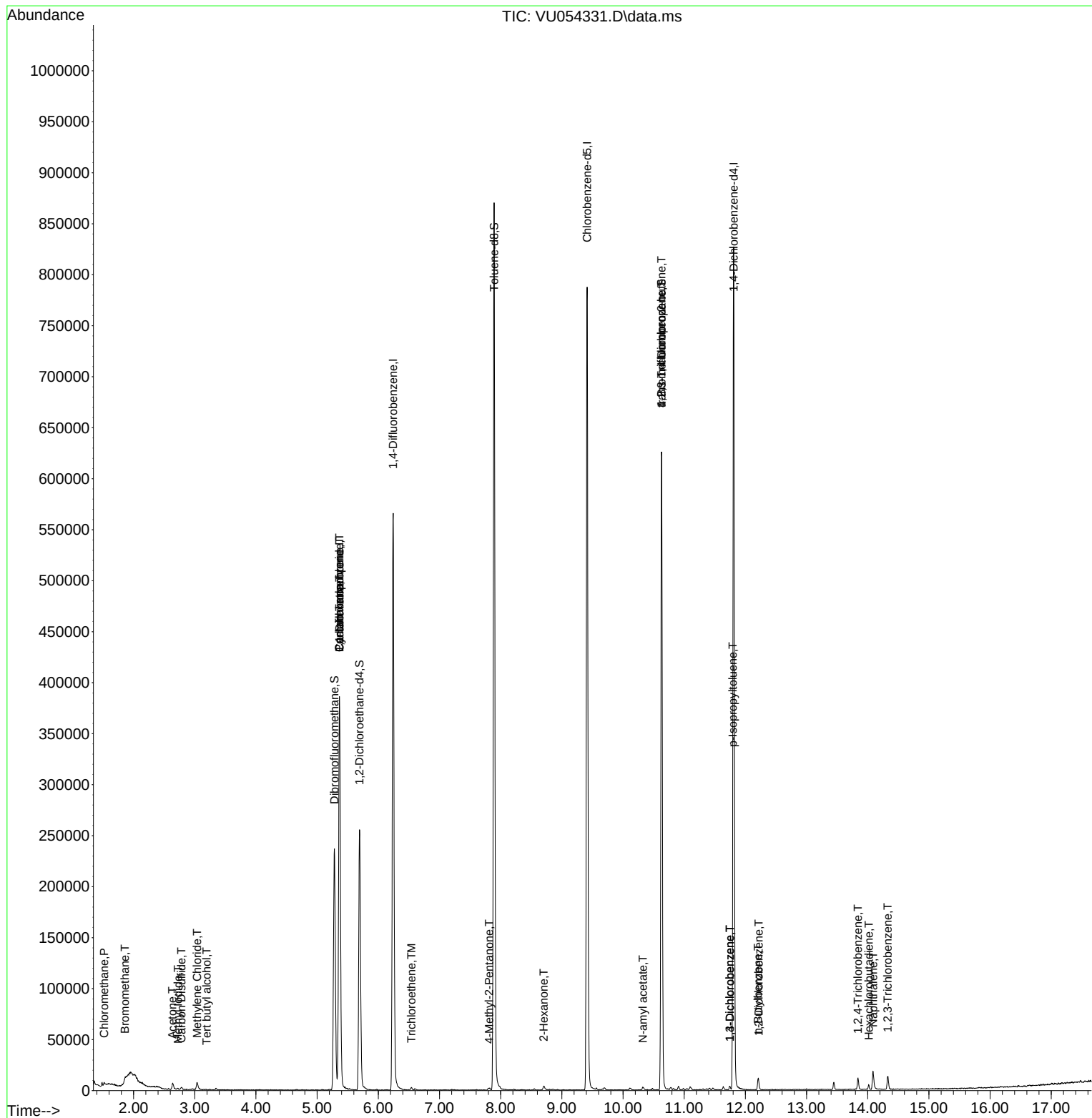
Internal Standards						
1) Pentafluorobenzene	5.366	168	282419	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	473530	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	455931	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.809	152	221715	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	193152	52.172	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.340%			
35) Dibromofluoromethane	5.282	113	154677	50.723	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.440%			
50) Toluene-d8	7.893	98	581748	50.155	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.300%			
62) 4-Bromofluorobenzene	10.629	95	213758	47.529	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.060%			
Target Compounds					Qvalue	
3) Chloromethane	1.520	50	2182	0.529	ug/l	94
5) Bromomethane	1.858	94	1900	0.871	ug/l	96
10) Methyl Iodide	2.726	142	1689	2.790	ug/l #	81
11) Tert butyl alcohol	3.195	59	309	0.309	ug/l #	37
16) Acetone	2.636	43	1658	0.781	ug/l	92
17) Carbon Disulfide	2.781	76	2550	0.284	ug/l	99
20) Methylene Chloride	3.038	84	3475	0.908	ug/l #	92
31) Cyclohexane	5.366	56	5274	1.009	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	21822	4.556	ug/l #	48
38) Carbon Tetrachloride	5.366	117	26983	5.504	ug/l #	16
44) Trichloroethene	6.543	130	1053	0.276	ug/l	93
51) 4-Methyl-2-Pentanone	7.809	43	2190	0.408	ug/l #	62
59) 2-Hexanone	8.706	43	3617	0.852	ug/l	89
74) N-amyl acetate	10.324	43	2287	0.392	ug/l #	76
76) 1,2,3-Trichloropropane	10.629	75	108053	16.698	ug/l #	46
81) trans-1,4-Dichloro-2-b...	10.629	75	108053	63.586	ug/l #	15
86) p-Isopropyltoluene	11.793	119	2672	0.214	ug/l #	74
87) 1,3-Dichlorobenzene	11.745	146	1956	0.268	ug/l	93
88) 1,4-Dichlorobenzene	11.745	146	1956	0.256	ug/l	93
89) n-Butylbenzene	12.208	91	6208	0.529	ug/l	96
91) 1,2-Dichlorobenzene	12.218	146	1551	0.216	ug/l	84
93) 1,2,4-Trichlorobenzene	13.838	180	3838	2.371	ug/l	93
94) Hexachlorobutadiene	14.018	225	980	1.228	ug/l	89
95) Naphthalene	14.089	128	17715	3.028	ug/l	99
96) 1,2,3-Trichlorobenzene	14.327	180	4778	2.177	ug/l	99

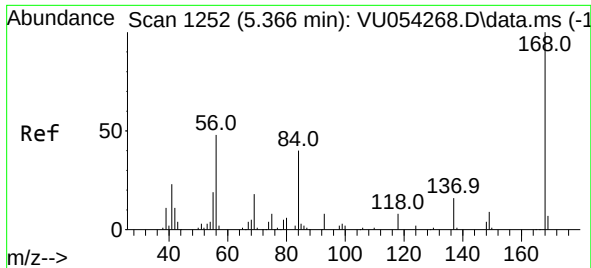
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 26 06:40:51 2023
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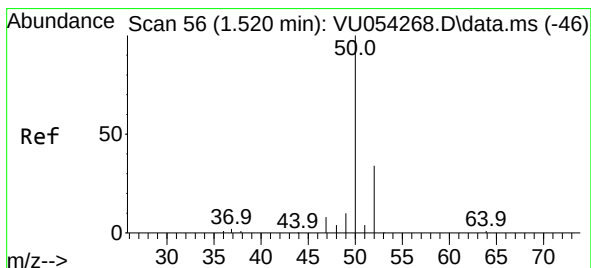
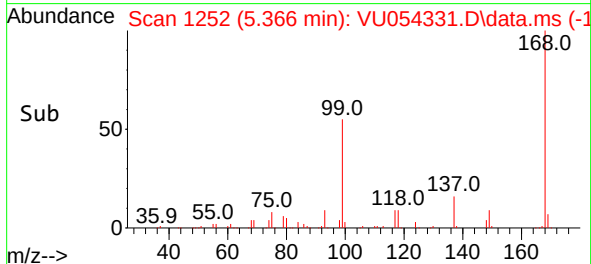
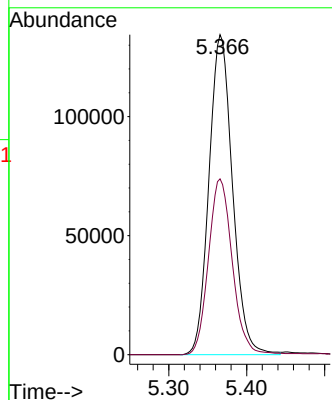
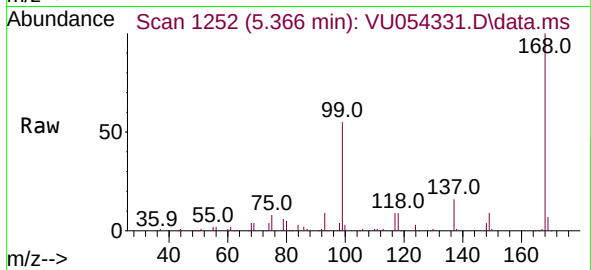




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

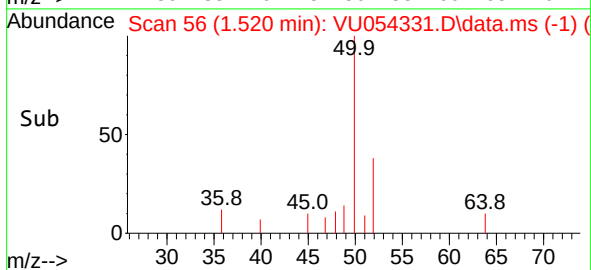
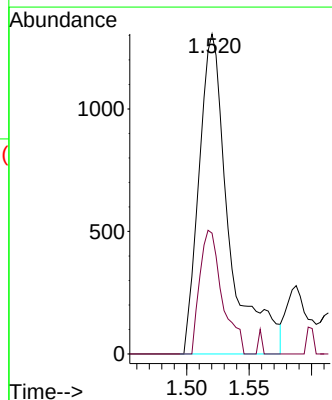
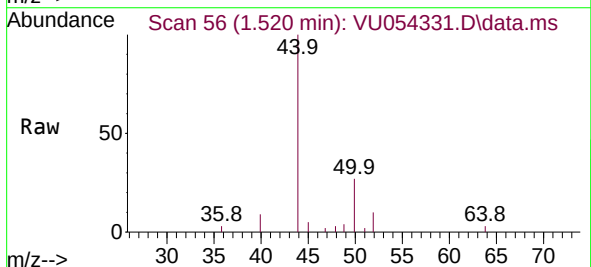
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

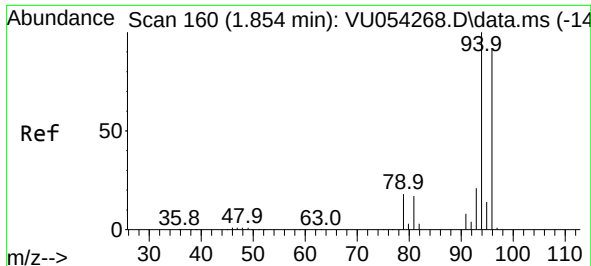
Tgt Ion:168 Resp: 282419
Ion Ratio Lower Upper
168 100
99 55.0 39.3 58.9



#3
Chloromethane
Concen: 0.529 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 50 Resp: 2182
Ion Ratio Lower Upper
50 100
52 37.7 27.4 41.2

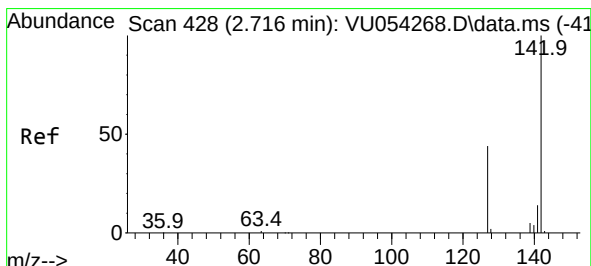
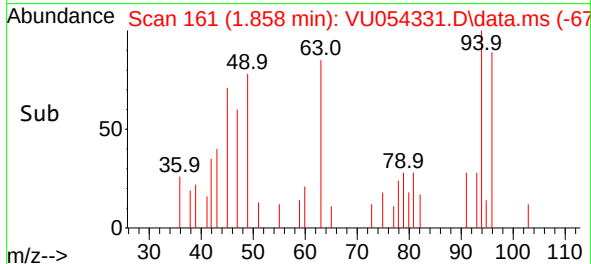
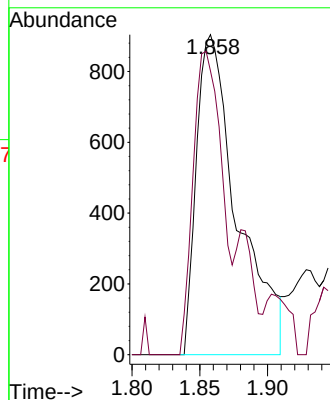
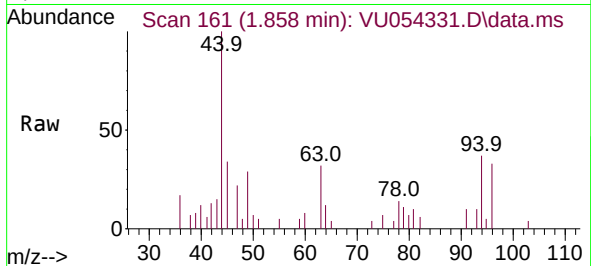




#5
Bromomethane
Concen: 0.871 ug/l
RT: 1.858 min Scan# 1
Delta R.T. 0.004 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

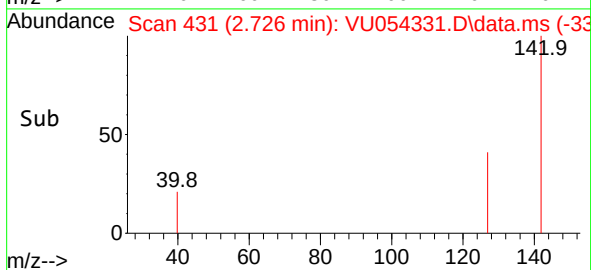
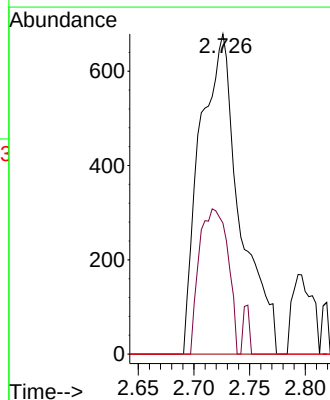
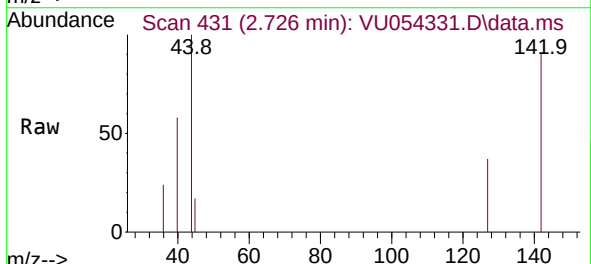
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

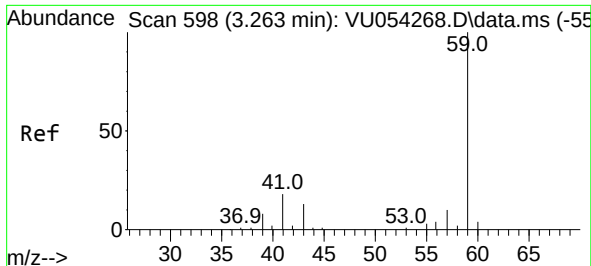
Tgt Ion: 94 Resp: 1900
Ion Ratio Lower Upper
94 100
96 88.7 73.7 110.5



#10
Methyl Iodide
Concen: 2.790 ug/l
RT: 2.726 min Scan# 431
Delta R.T. 0.010 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion:142 Resp: 1689
Ion Ratio Lower Upper
142 100
127 32.4 32.5 48.7#
141 0.0 11.4 17.0#

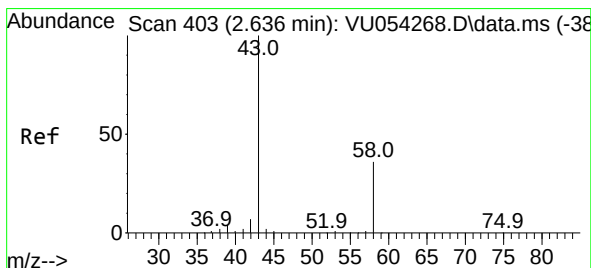
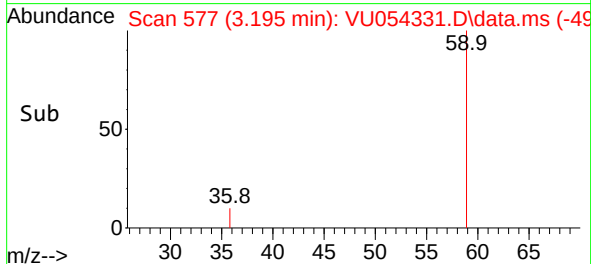
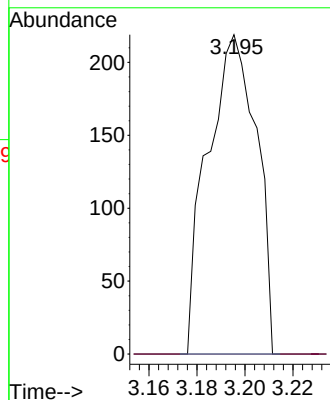
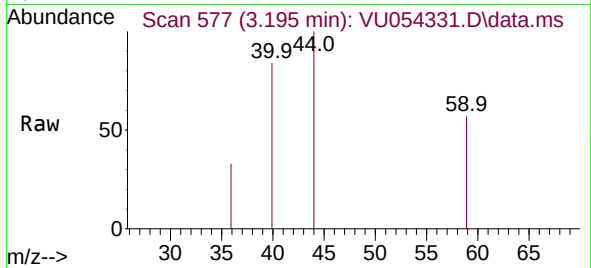




#11
Tert butyl alcohol
Concen: 0.309 ug/l
RT: 3.195 min Scan# 51
Delta R.T. -0.048 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

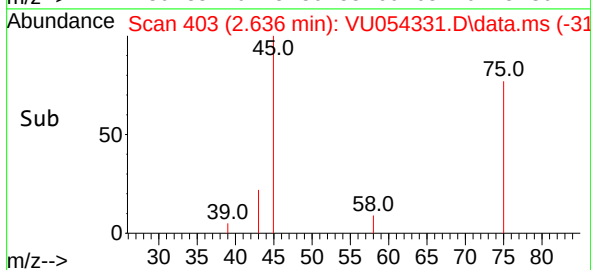
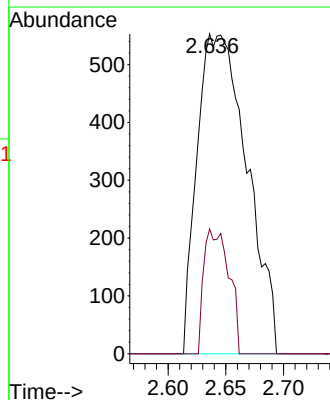
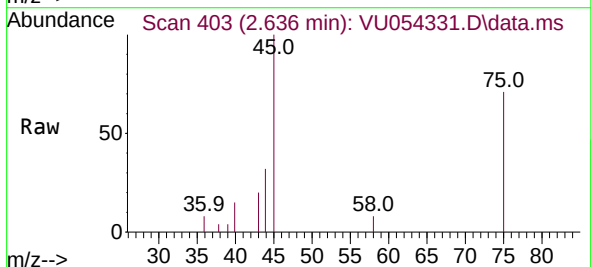
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

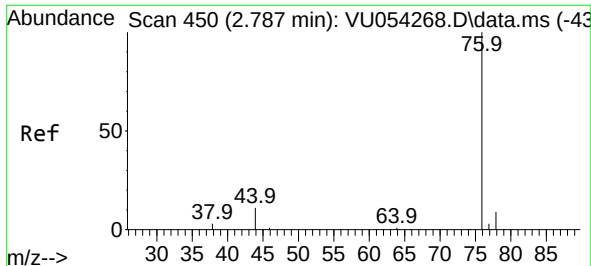
Tgt Ion: 59 Resp: 309
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#16
Acetone
Concen: 0.781 ug/l
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 43 Resp: 1658
Ion Ratio Lower Upper
43 100
58 39.1 27.5 41.3





#17

Carbon Disulfide

Concen: 0.284 ug/l

RT: 2.781 min Scan# 448

Delta R.T. -0.006 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Instrument :

MSVOA_U

ClientSampleId :

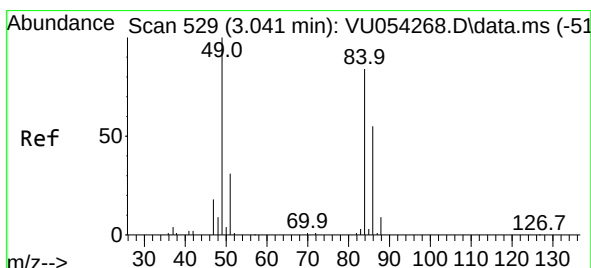
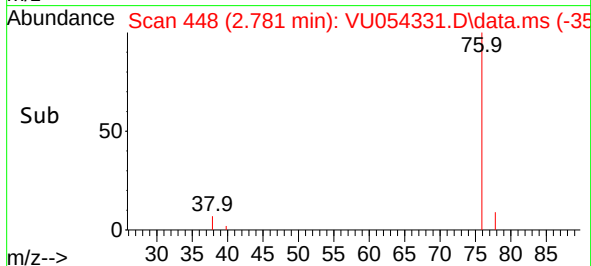
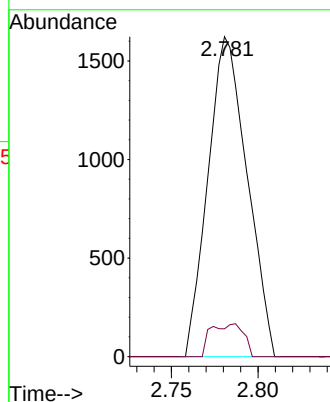
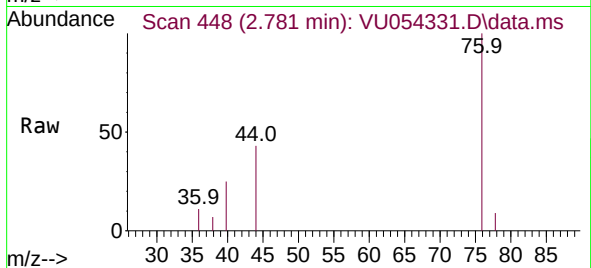
VU0531WBL01

Tgt Ion: 76 Resp: 2550

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



#20

Methylene Chloride

Concen: 0.908 ug/l

RT: 3.038 min Scan# 528

Delta R.T. -0.003 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Tgt Ion: 84 Resp: 3475

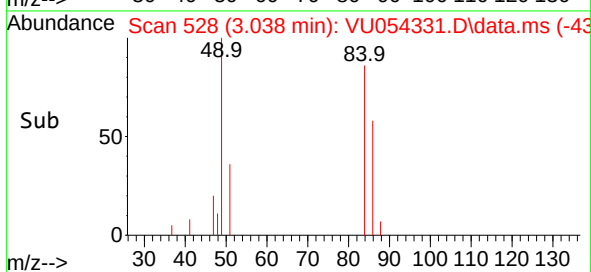
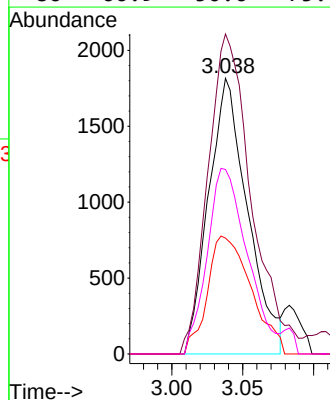
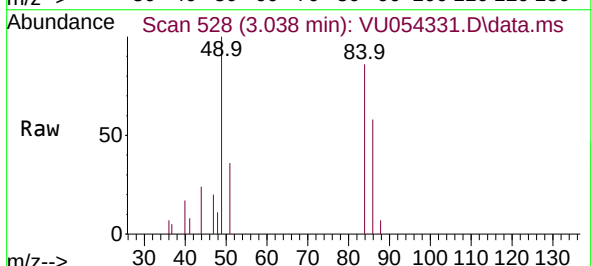
Ion Ratio Lower Upper

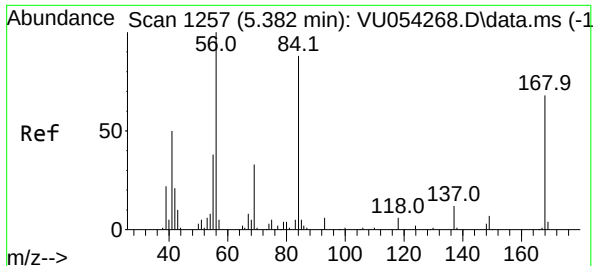
84 100

49 116.1 86.6 129.8

51 42.0 26.6 40.0#

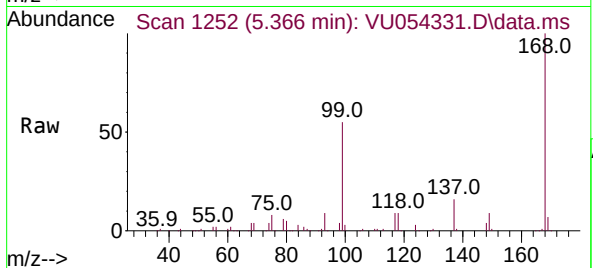
86 66.9 50.6 75.8



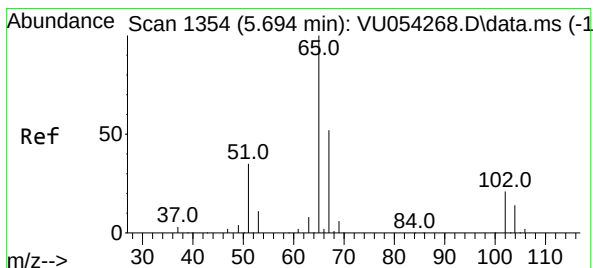
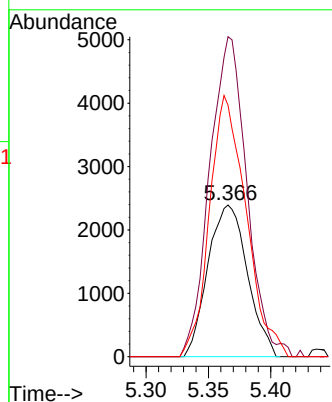
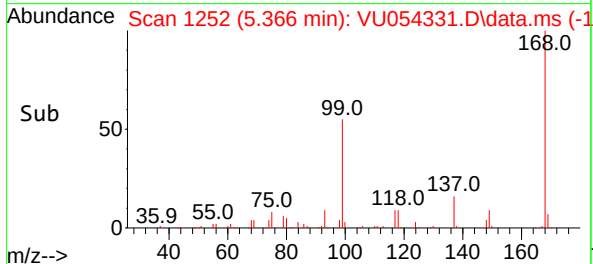


#31
Cyclohexane
Concen: 1.009 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.016 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

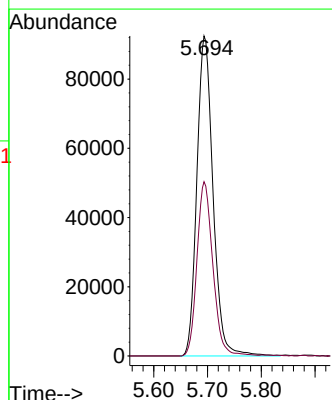
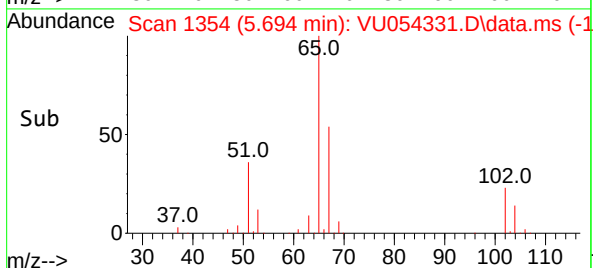
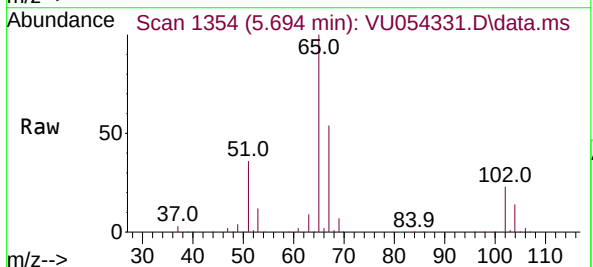


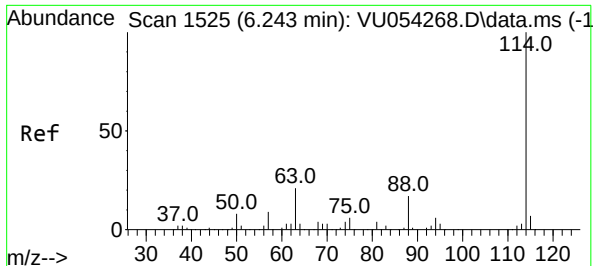
Tgt Ion: 56 Resp: 5274
Ion Ratio Lower Upper
56 100
69 210.9 27.8 41.8#
84 165.7 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 52.172 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 65 Resp: 193152
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL01

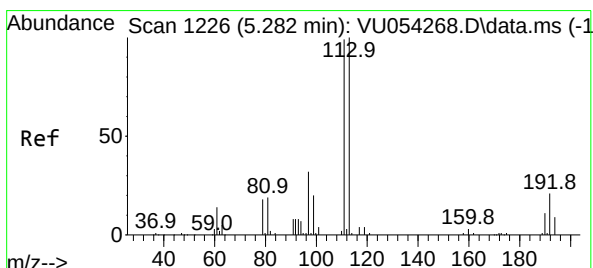
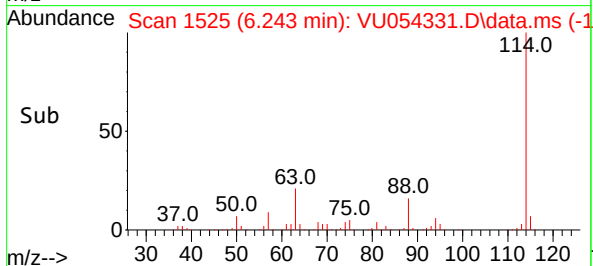
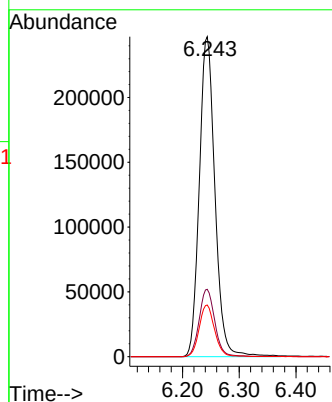
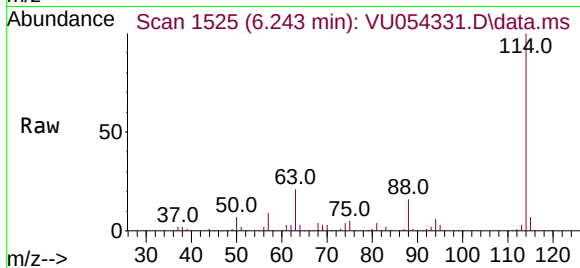
Tgt Ion:114 Resp: 473530

Ion Ratio Lower Upper

114 100

63 21.0 0.0 37.8

88 16.2 0.0 29.2



#35

Dibromofluoromethane

Concen: 50.723 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

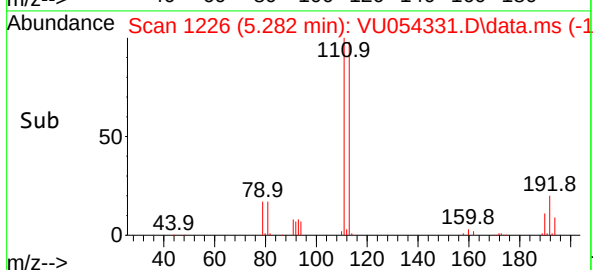
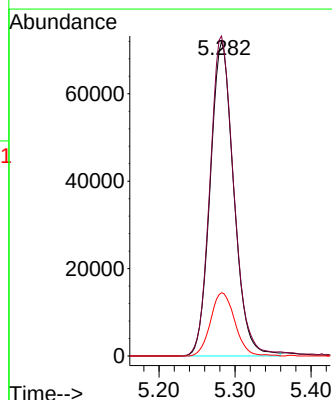
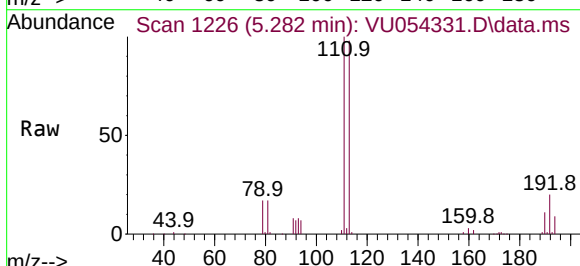
Tgt Ion:113 Resp: 154677

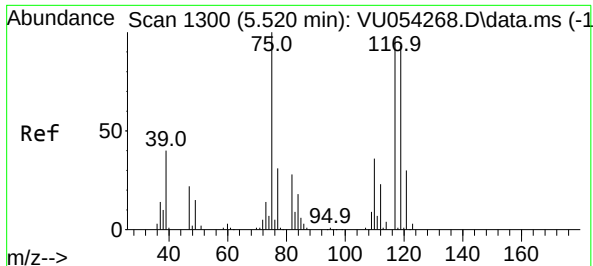
Ion Ratio Lower Upper

113 100

111 102.6 82.1 123.1

192 20.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.556 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL01

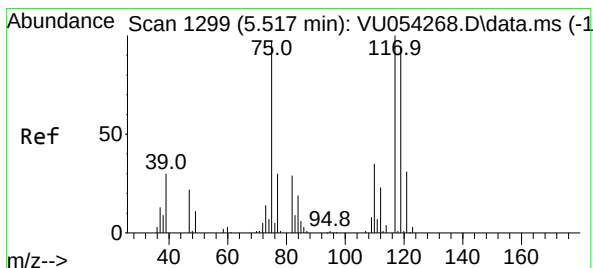
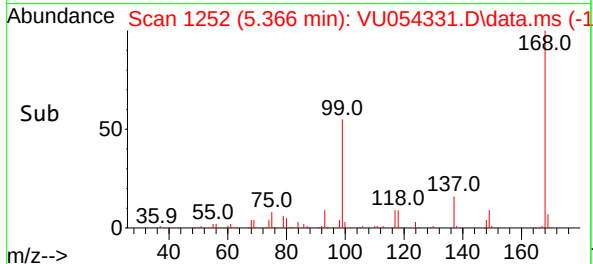
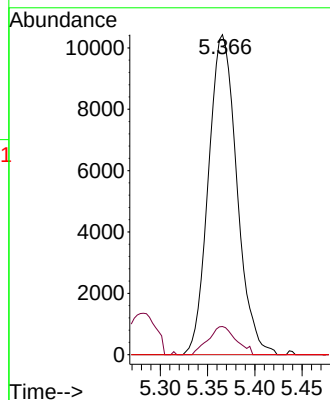
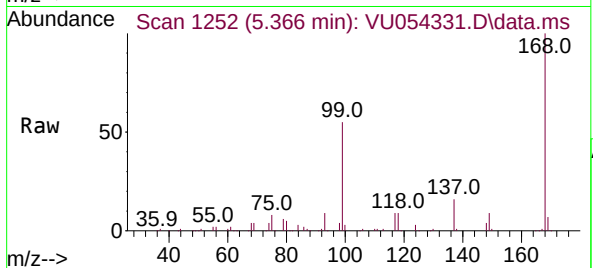
Tgt Ion: 75 Resp: 21822

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.504 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

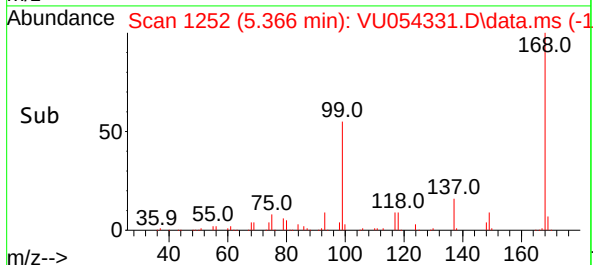
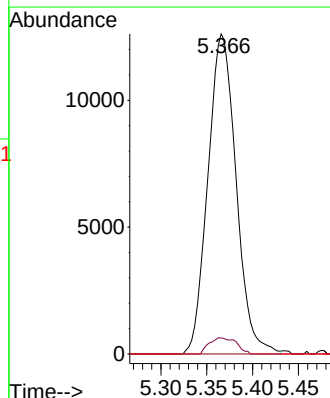
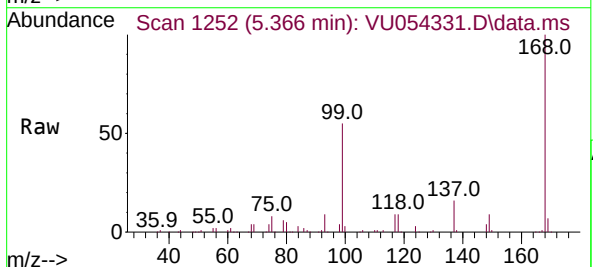
Tgt Ion: 117 Resp: 26983

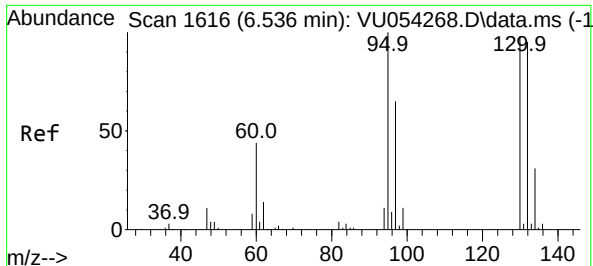
Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

121 0.0 24.7 37.1#

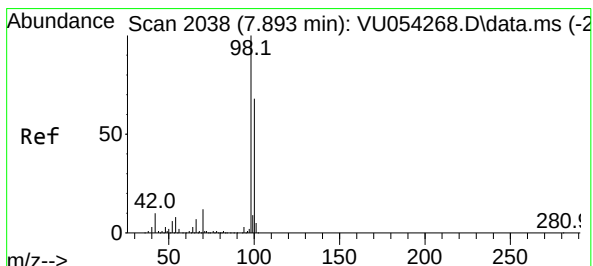
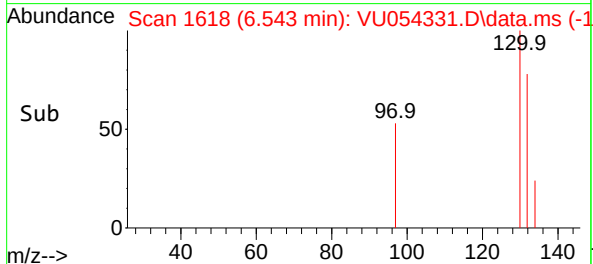
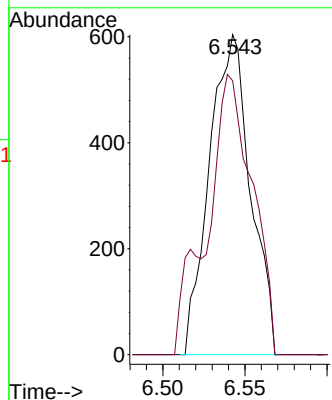
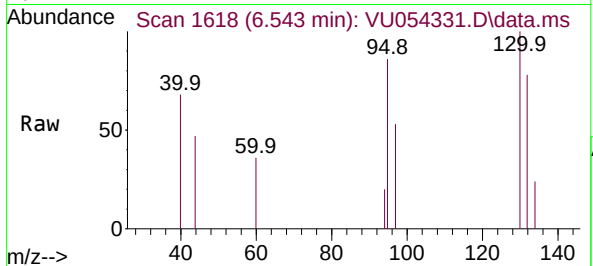




#44
Trichloroethene
Concen: 0.276 ug/l
RT: 6.543 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

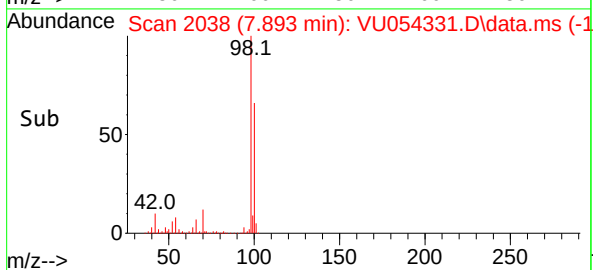
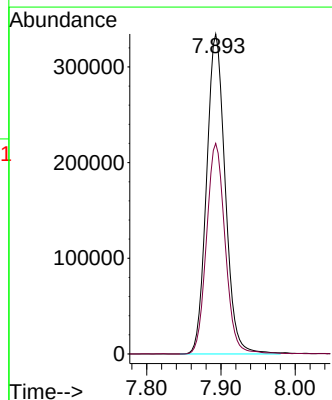
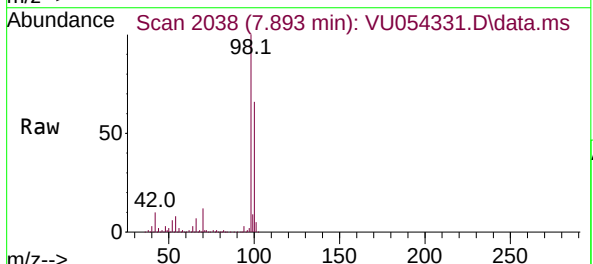
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

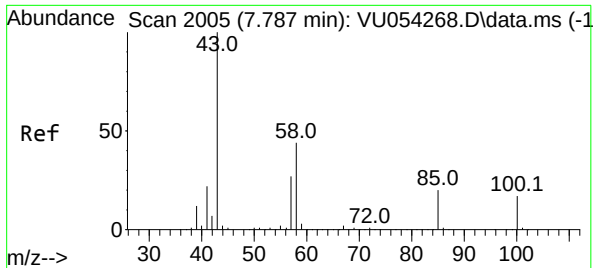
Tgt Ion:130 Resp: 1053
Ion Ratio Lower Upper
130 100
95 85.6 0.0 184.6



#50
Toluene-d8
Concen: 50.155 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 98 Resp: 581748
Ion Ratio Lower Upper
98 100
100 66.0 51.7 77.5

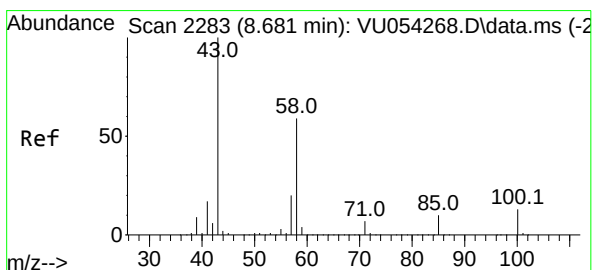
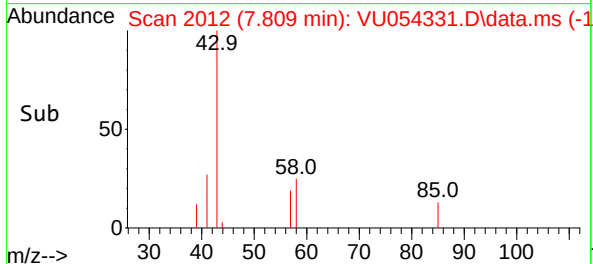
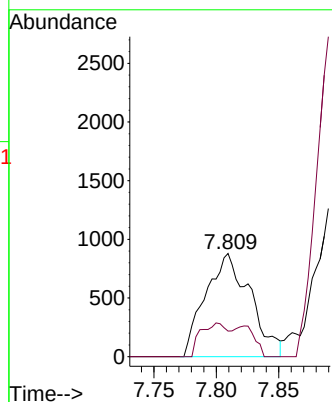
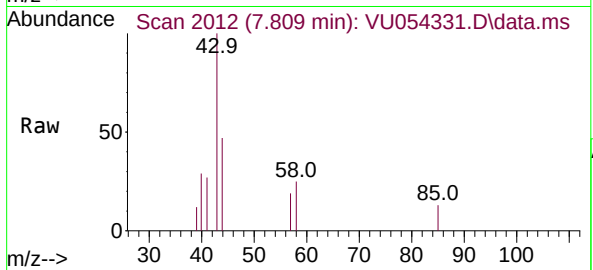




#51
4-Methyl-2-Pentanone
Concen: 0.408 ug/l
RT: 7.809 min Scan# 2005
Delta R.T. 0.022 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

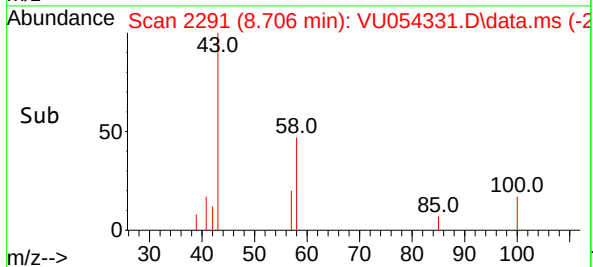
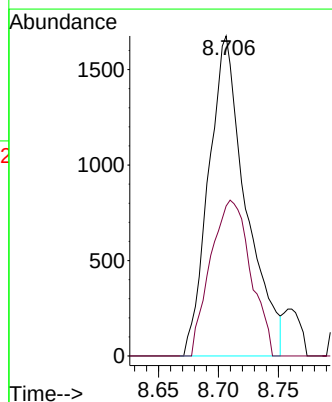
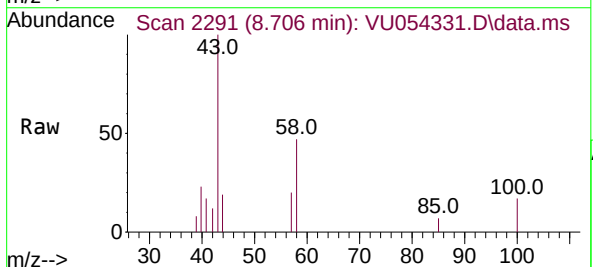
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

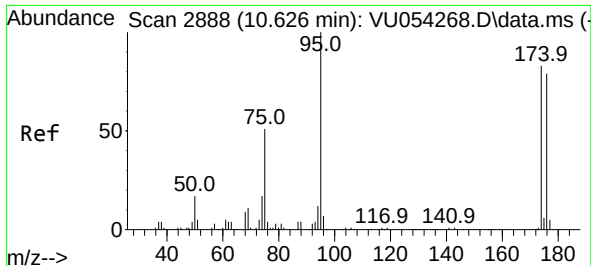
Tgt Ion: 43 Resp: 2190
Ion Ratio Lower Upper
43 100
58 18.9 34.7 52.1#



#59
2-Hexanone
Concen: 0.852 ug/l
RT: 8.706 min Scan# 2291
Delta R.T. 0.025 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 43 Resp: 3617
Ion Ratio Lower Upper
43 100
58 52.4 30.3 90.8

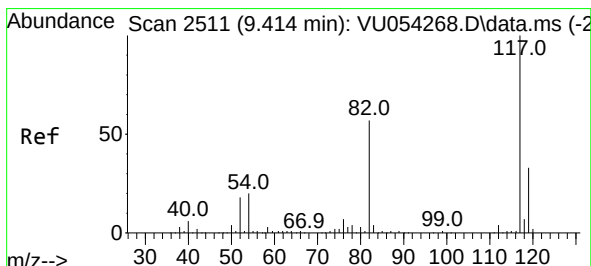
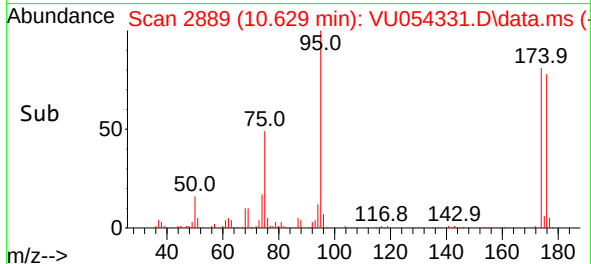
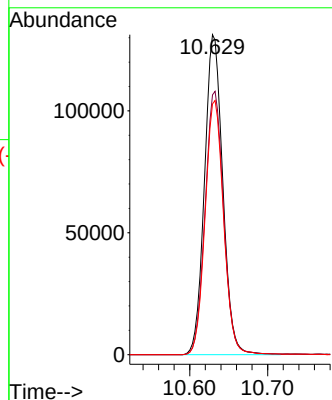
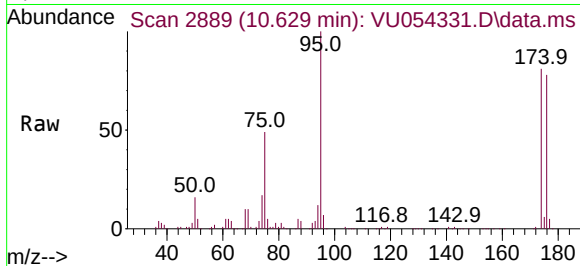




#62
4-Bromofluorobenzene
Concen: 47.529 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

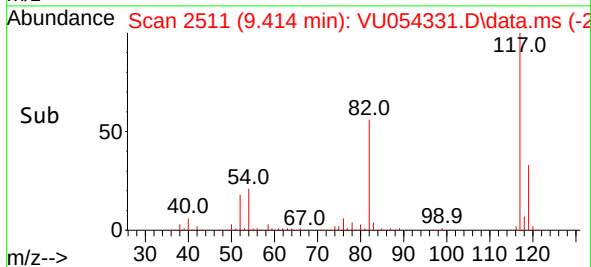
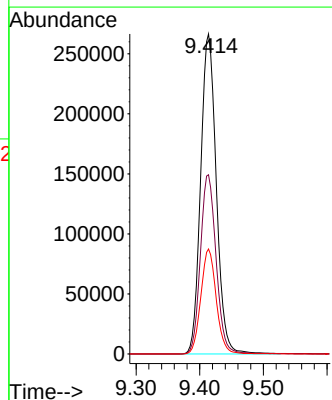
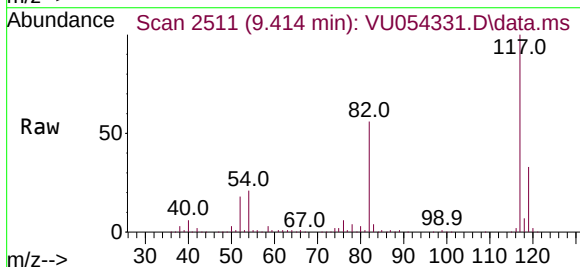
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

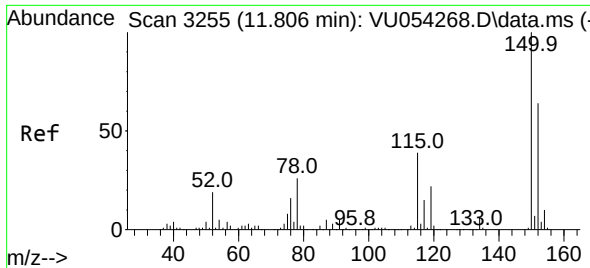
Tgt Ion: 95 Resp: 213758
Ion Ratio Lower Upper
95 100
174 83.9 0.0 182.0
176 80.6 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 117 Resp: 455931
Ion Ratio Lower Upper
117 100
82 56.0 41.7 62.5
119 32.8 25.7 38.5

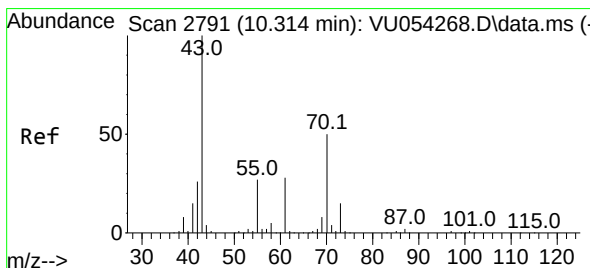
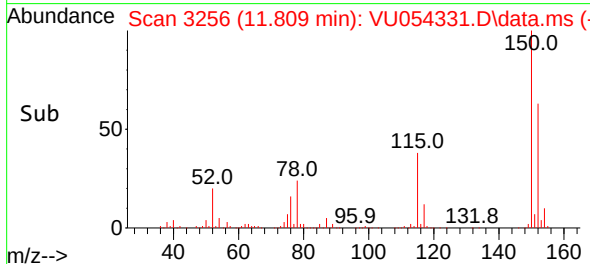
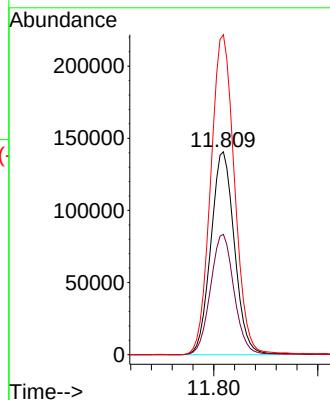
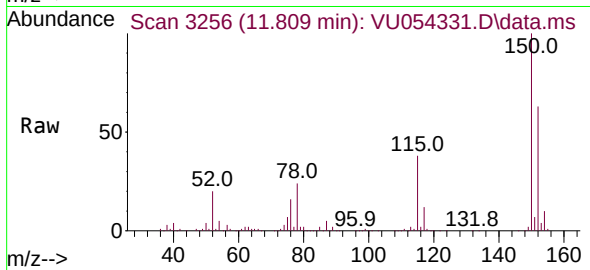




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.809 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

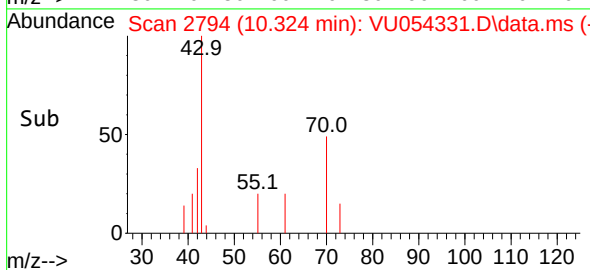
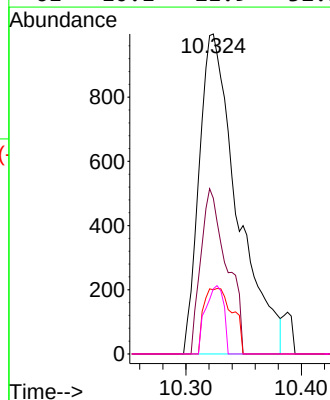
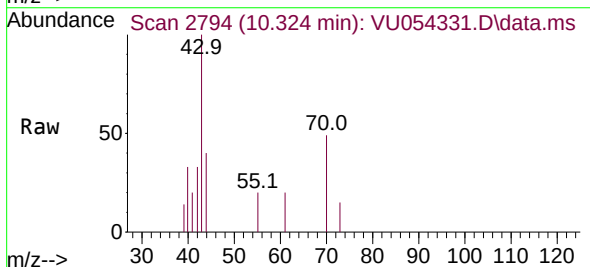
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

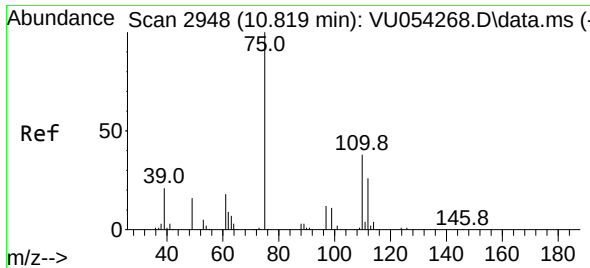
Tgt Ion:152 Resp: 221715
Ion Ratio Lower Upper
152 100
115 59.4 37.0 110.9
150 160.6 0.0 342.2



#74
N-ethyl acetate
Concen: 0.392 ug/l
RT: 10.324 min Scan# 2794
Delta R.T. 0.010 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 43 Resp: 2287
Ion Ratio Lower Upper
43 100
70 34.9 38.7 58.1#
55 15.3 21.8 32.8#
61 10.1 21.9 32.9#

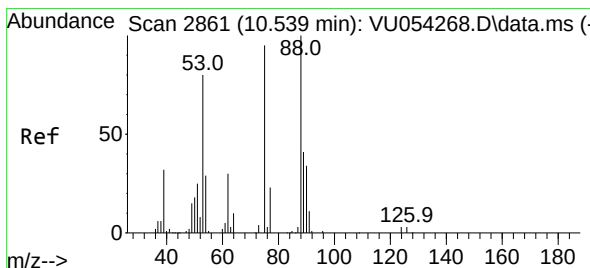
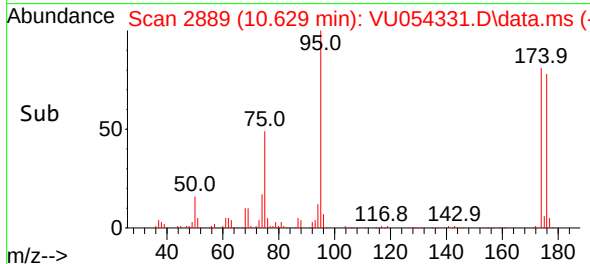
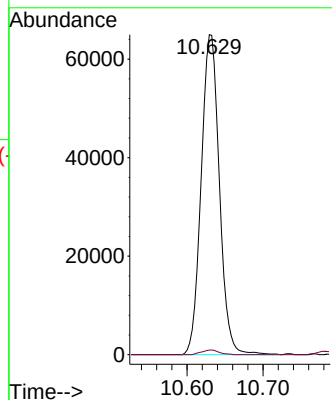
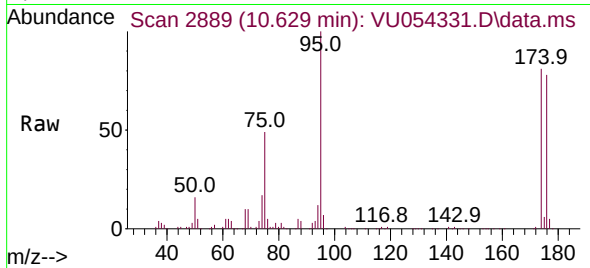




#76
1,2,3-Trichloropropane
Concen: 16.698 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

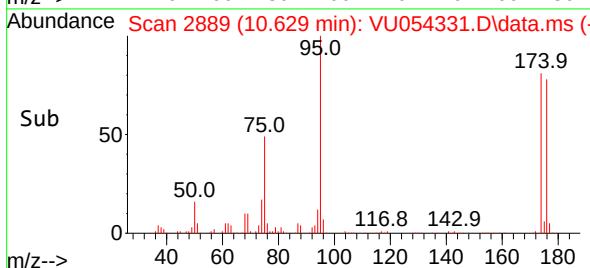
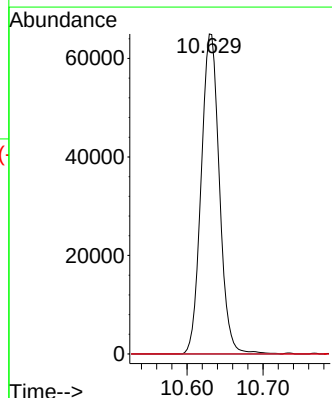
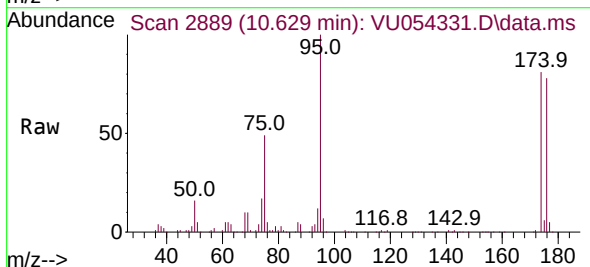
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

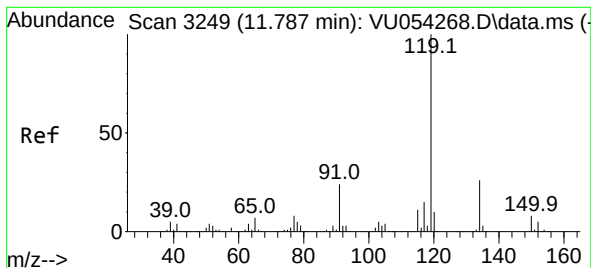
Tgt Ion: 75 Resp: 108053
Ion Ratio Lower Upper
75 100
77 1.4 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.586 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.090 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 75 Resp: 108053
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#





#86

p-Isopropyltoluene

Concen: 0.214 ug/l

RT: 11.793 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL01

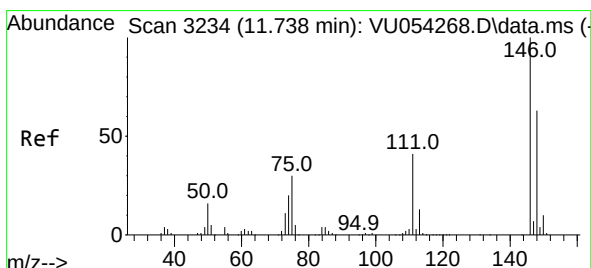
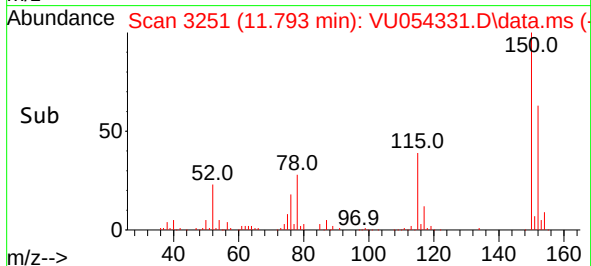
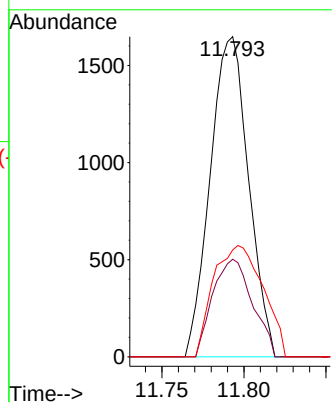
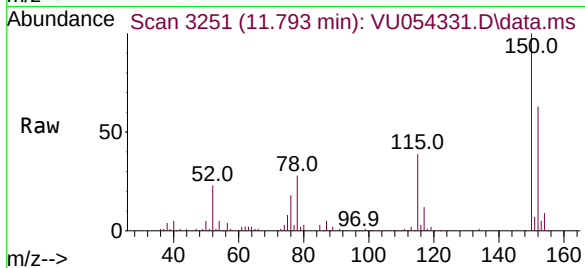
Tgt Ion:119 Resp: 2672

Ion Ratio Lower Upper

119 100

134 31.5 13.5 40.4

91 45.0 11.2 33.5#



#87

1,3-Dichlorobenzene

Concen: 0.268 ug/l

RT: 11.745 min Scan# 3236

Delta R.T. 0.007 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

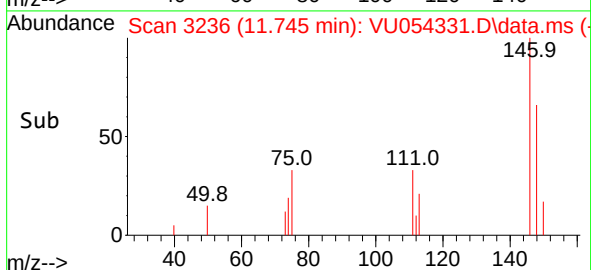
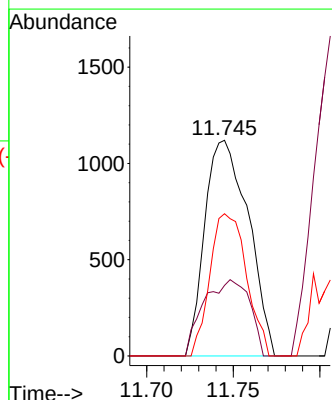
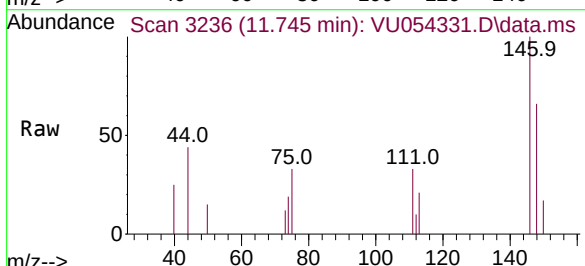
Tgt Ion:146 Resp: 1956

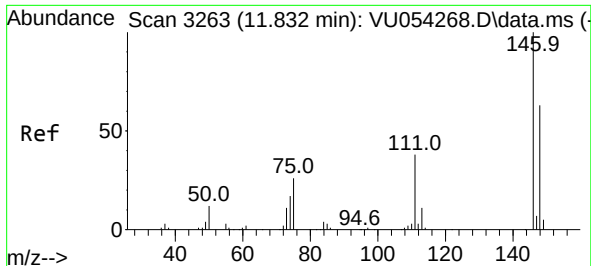
Ion Ratio Lower Upper

146 100

111 37.4 18.9 56.5

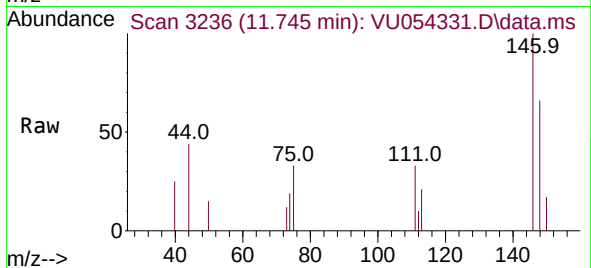
148 55.4 31.9 95.9



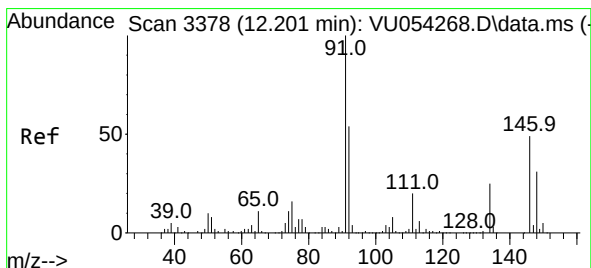
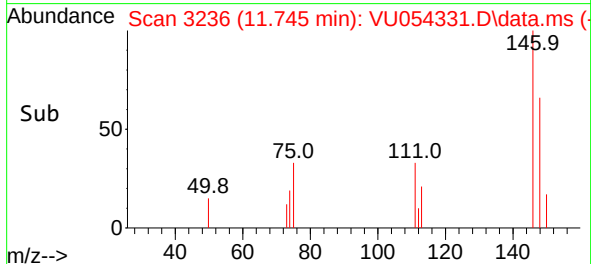
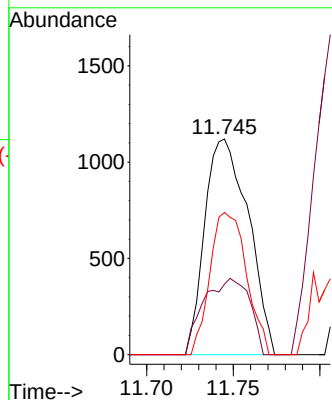


#88
1,4-Dichlorobenzene
Concen: 0.256 ug/l
RT: 11.745 min Scan# 31
Delta R.T. -0.087 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

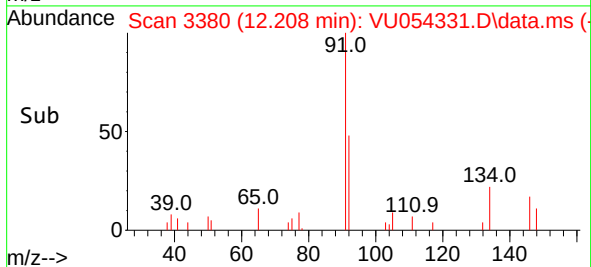
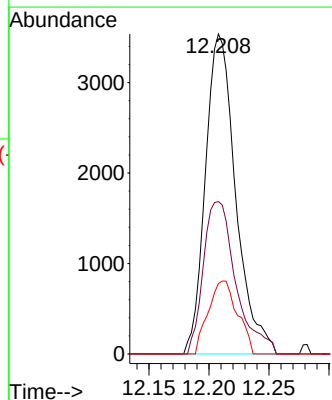
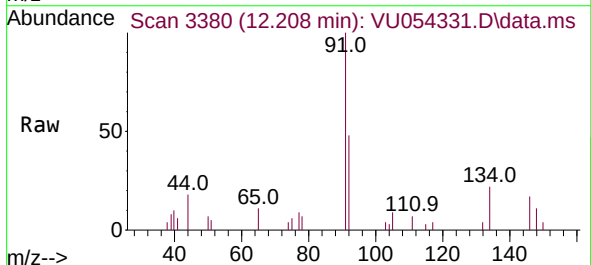


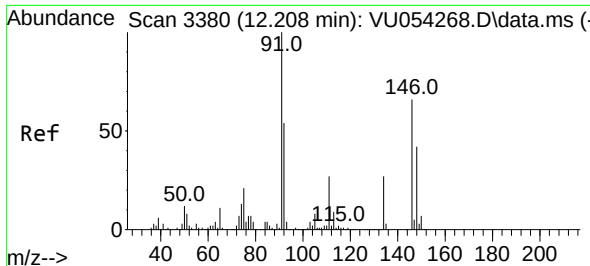
Tgt Ion:146 Resp: 1956
Ion Ratio Lower Upper
146 100
111 37.4 18.5 55.5
148 55.4 31.9 95.7



#89
n-Butylbenzene
Concen: 0.529 ug/l
RT: 12.208 min Scan# 3380
Delta R.T. 0.007 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Tgt Ion: 91 Resp: 6208
Ion Ratio Lower Upper
91 100
92 51.2 26.2 78.6
134 21.9 13.5 40.4





#91

1,2-Dichlorobenzene

Concen: 0.216 ug/l

RT: 12.218 min Scan# 31

Delta R.T. 0.010 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

Instrument :

MSVOA_U

ClientSampleId :

VU0531WBL01

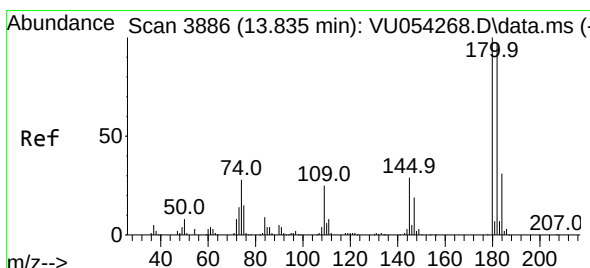
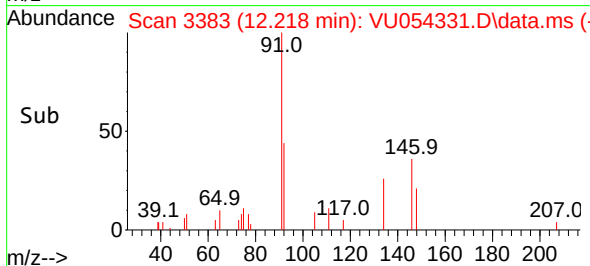
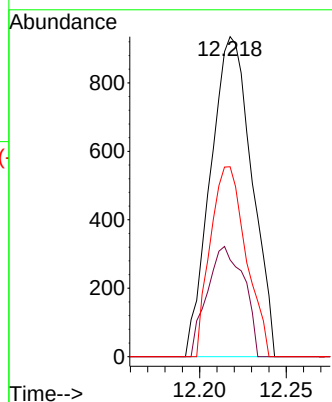
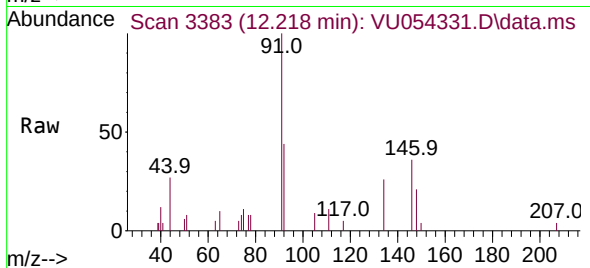
Tgt Ion:146 Resp: 1551

Ion Ratio Lower Upper

146 100

111 30.6 19.9 59.6

148 51.1 32.1 96.5



#93

1,2,4-Trichlorobenzene

Concen: 2.371 ug/l

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

Lab File: VU054331.D

Acq: 31 May 2023 12:18

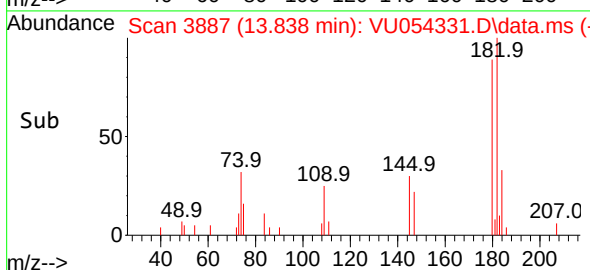
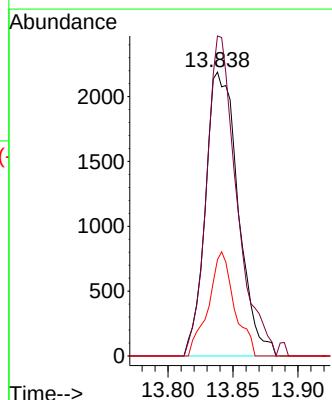
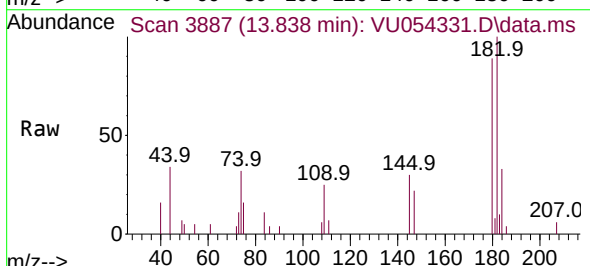
Tgt Ion:180 Resp: 3838

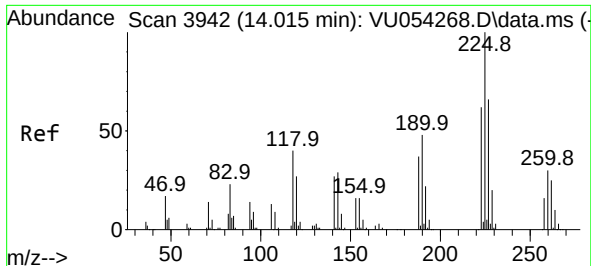
Ion Ratio Lower Upper

180 100

182 104.0 47.9 143.6

145 29.1 14.0 41.9

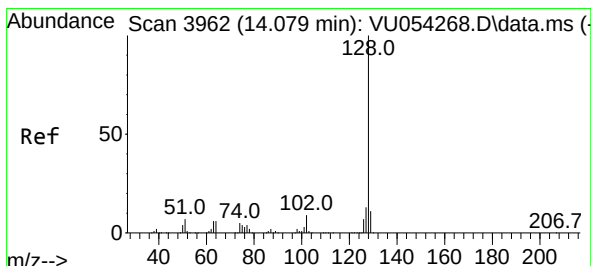
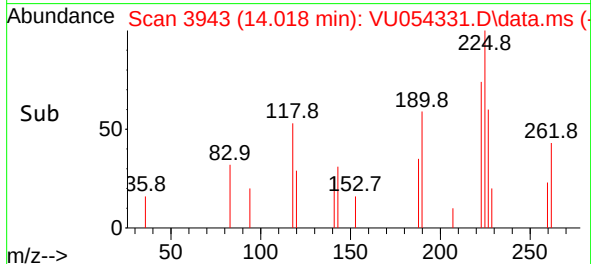
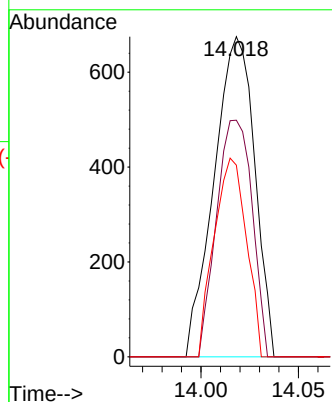
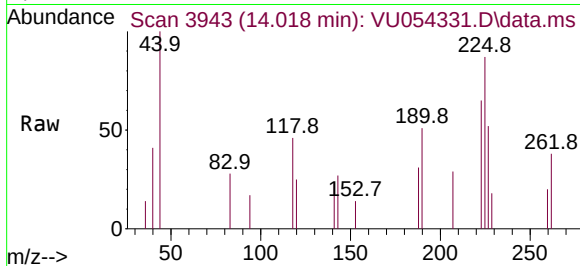




#94
Hexachlorobutadiene
Concen: 1.228 ug/l
RT: 14.018 min Scan# 3942
Delta R.T. 0.003 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

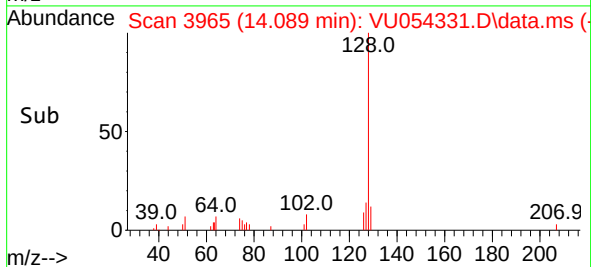
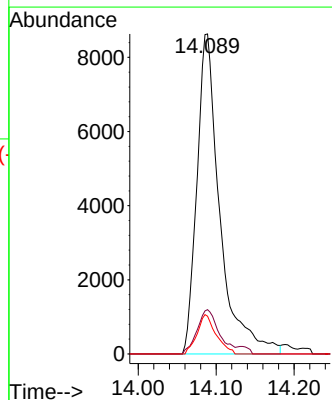
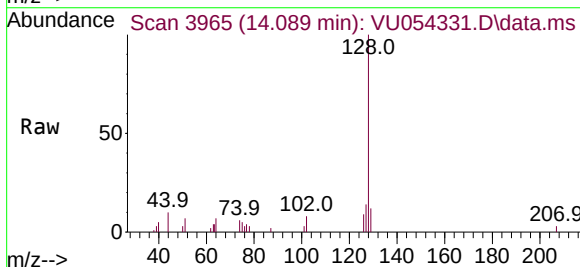
Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01

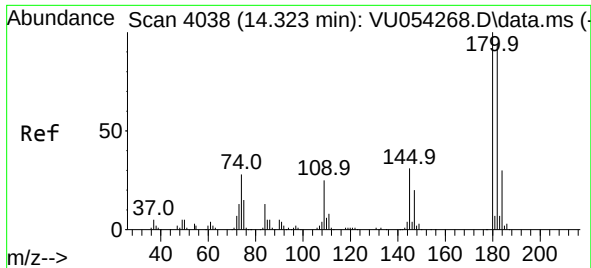
Tgt Ion:225 Resp: 980
Ion Ratio Lower Upper
225 100
223 64.7 31.3 93.9
227 49.2 32.0 96.2



#95
Naphthalene
Concen: 3.028 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.010 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

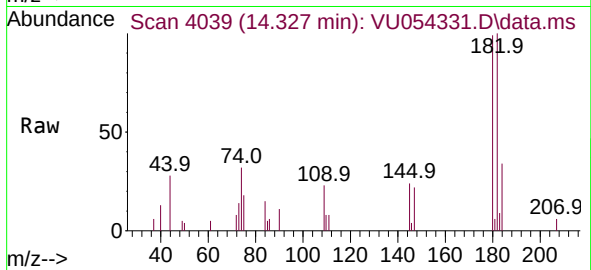
Tgt Ion:128 Resp: 17715
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 10.1 8.6 13.0





#96
1,2,3-Trichlorobenzene
Concen: 2.177 ug/l
RT: 14.327 min Scan# 4039
Delta R.T. 0.004 min
Lab File: VU054331.D
Acq: 31 May 2023 12:18

Instrument :
MSVOA_U
ClientSampleId :
VU0531WBL01



Tgt Ion:	180	Resp:	4778
Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.4	145.0
145	27.5	14.8	44.4

