

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054338.D
 Acq On : 31 May 2023 15:25
 Operator : JC/MD
 Sample : 02936-20
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FB-01-20230524

Quant Time: Jun 01 05:21:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

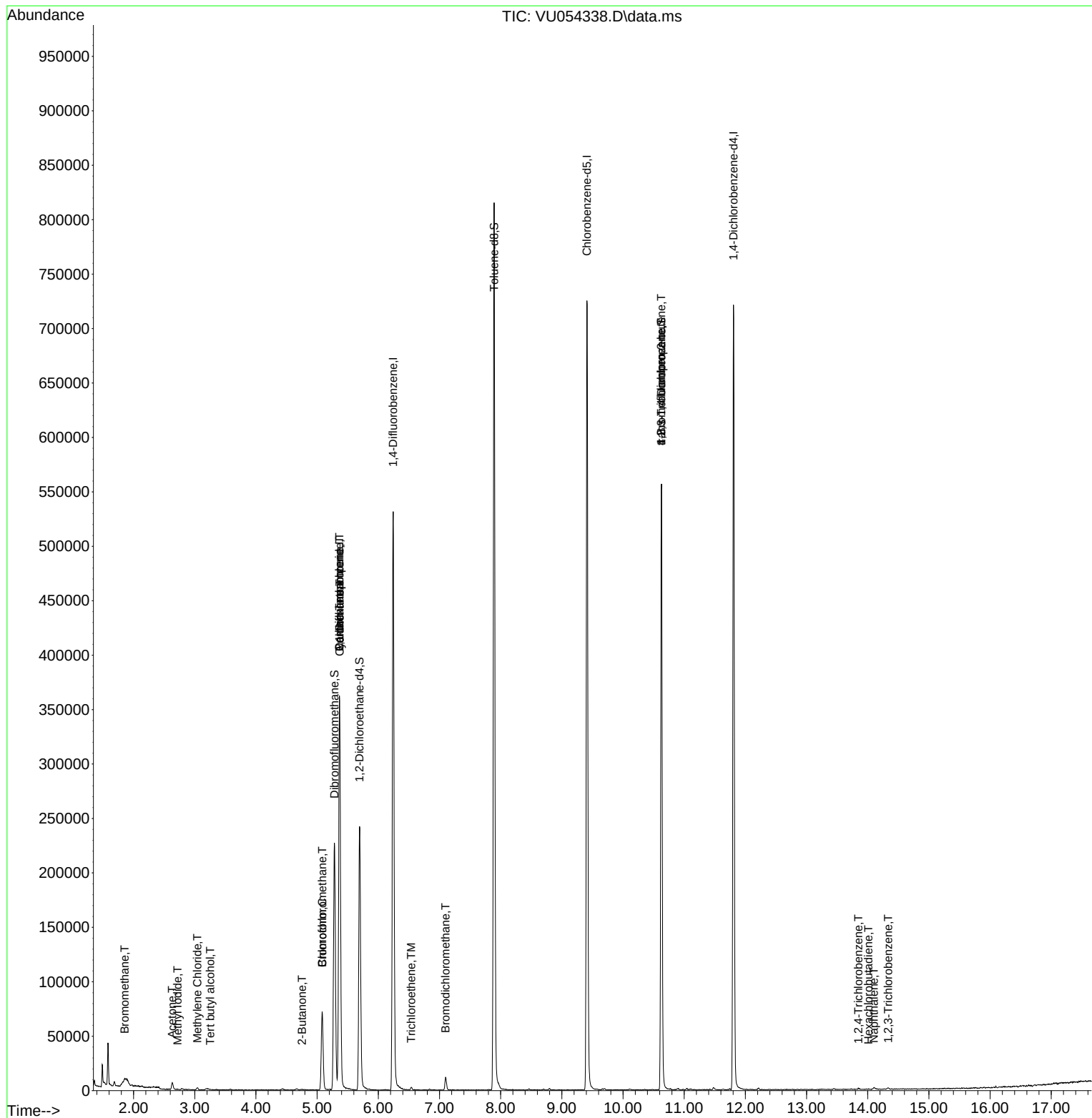
Internal Standards						
1) Pentafluorobenzene	5.366	168	264056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	446673	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	418824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	195425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	182070	52.598	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	105.200%
35) Dibromofluoromethane	5.282	113	148771	51.720	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.440%
50) Toluene-d8	7.893	98	546914	49.987	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.980%
62) 4-Bromofluorobenzene	10.626	95	187778	44.262	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.520%
Target Compounds						
					Qvalue	
5) Bromomethane	1.854	94	441	0.216	ug/l	93
10) Methyl Iodide	2.719	142	228	2.398	ug/l #	69
11) Tert butyl alcohol	3.253	59	494	0.528	ug/l #	37
16) Acetone	2.629	43	7918	3.991	ug/l #	86
20) Methylene Chloride	3.041	84	1134	0.317	ug/l #	91
25) 2-Butanone	4.751	43	883	0.336	ug/l	91
28) Bromochloromethane	5.083	49	4548	1.758	ug/l #	4
30) Chloroform	5.083	83	66073	11.629	ug/l	100
31) Cyclohexane	5.369	56	5547	1.135	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	19592	4.336	ug/l #	47
38) Carbon Tetrachloride	5.366	117	25283	5.467	ug/l #	16
44) Trichloroethene	6.536	130	954	0.265	ug/l	78
47) Bromodichloromethane	7.099	83	8254	1.784	ug/l	94
76) 1,2,3-Trichloropropane	10.626	75	94147	16.506	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	94147	62.856	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.844	180	375	1.724	ug/l #	34
94) Hexachlorobutadiene	14.012	225	20	0.830	ug/l #	19
95) Naphthalene	14.102	128	2922	2.185	ug/l #	81
96) 1,2,3-Trichlorobenzene	14.333	180	542	1.373	ug/l	72

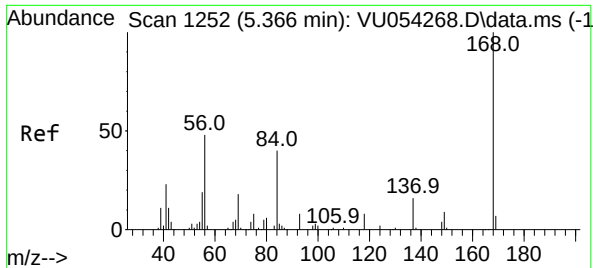
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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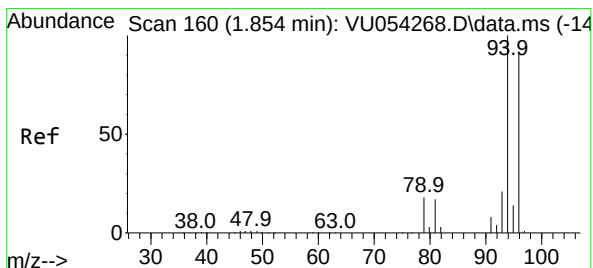
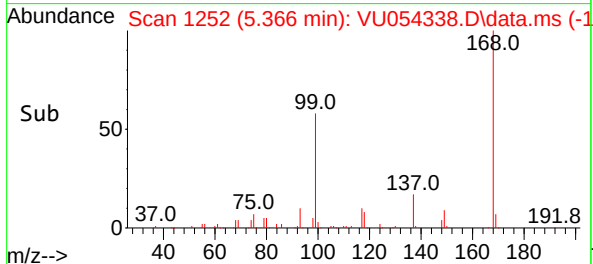
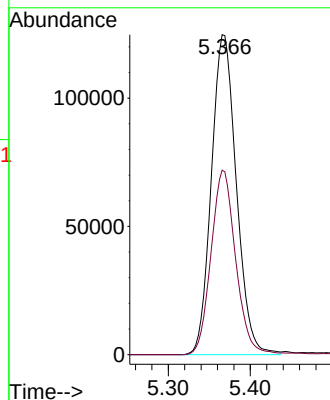
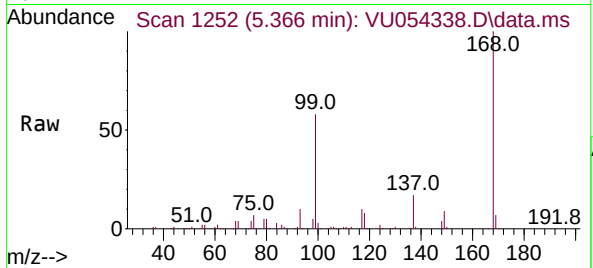




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

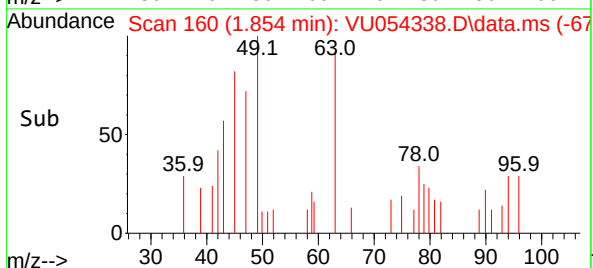
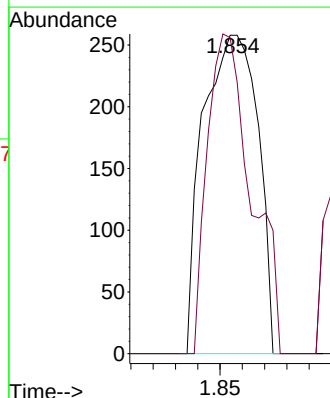
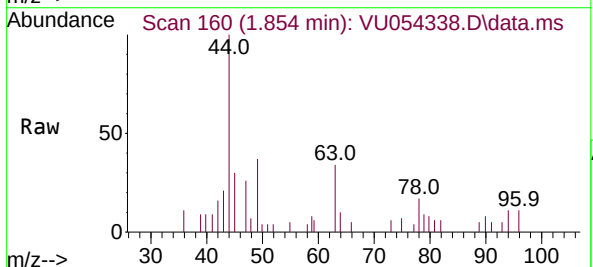
Instrument :
MSVOA_U
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FB-01-20230524

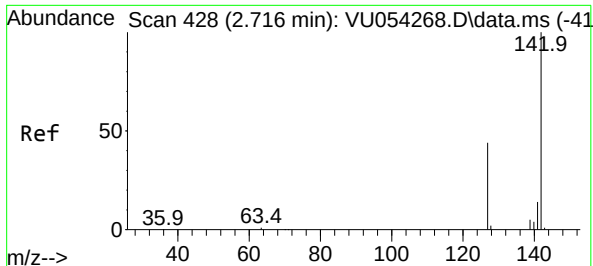
Tgt Ion:168 Resp: 264056
Ion Ratio Lower Upper
168 100
99 57.7 39.3 58.9



#5
Bromomethane
Concen: 0.216 ug/l
RT: 1.854 min Scan# 160
Delta R.T. 0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 94 Resp: 441
Ion Ratio Lower Upper
94 100
96 99.2 73.7 110.5

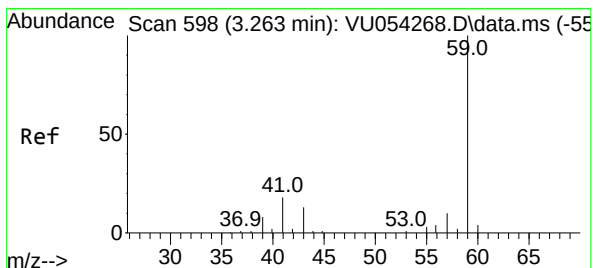
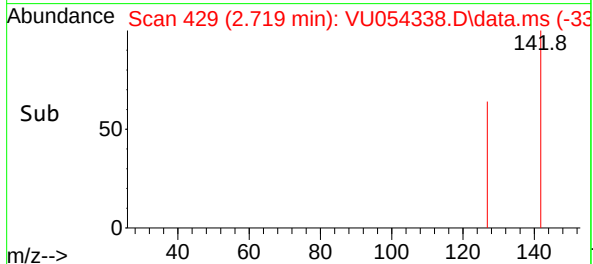
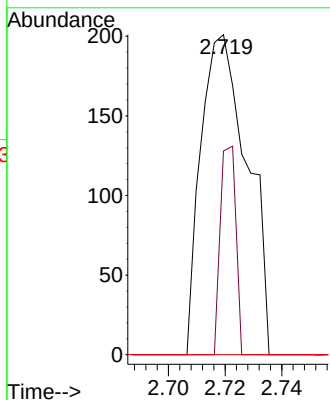
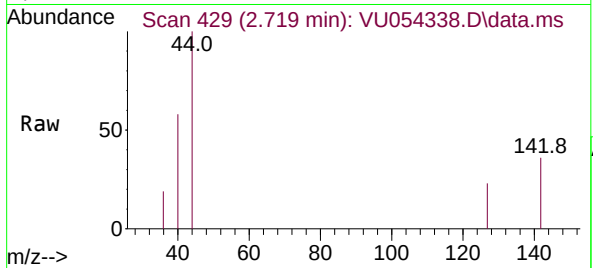




#10
Methyl Iodide
Concen: 2.398 ug/l
RT: 2.719 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

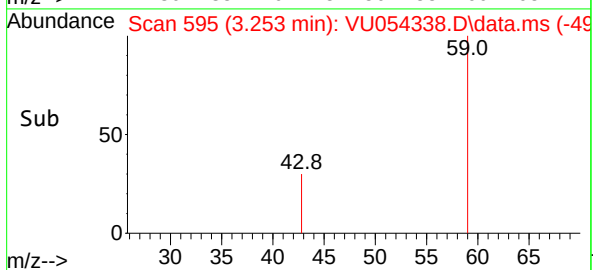
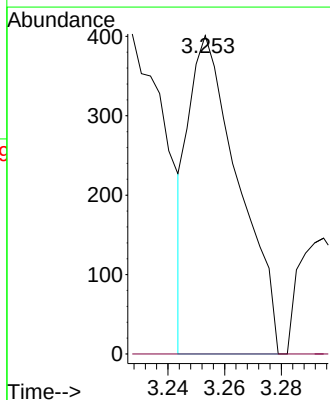
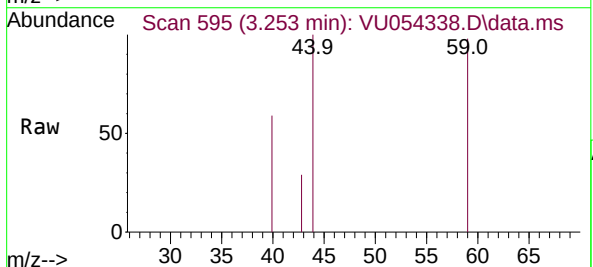
Instrument :
MSVOA_U
ClientSampleId :
FB-01-20230524

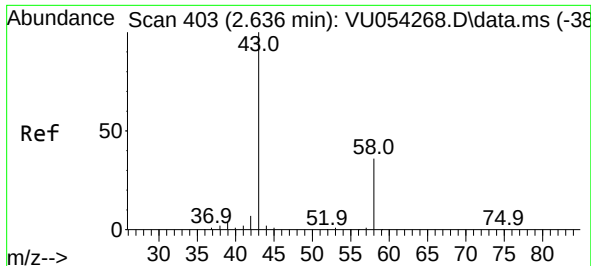
Tgt Ion:142 Resp: 228
Ion Ratio Lower Upper
142 100
127 21.9 32.5 48.7#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.528 ug/l
RT: 3.253 min Scan# 595
Delta R.T. 0.010 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 59 Resp: 494
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#





#16

Acetone

Concen: 3.991 ug/l

RT: 2.629 min Scan# 40

Delta R.T. -0.007 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

Instrument :

MSVOA_U

ClientSampleId :

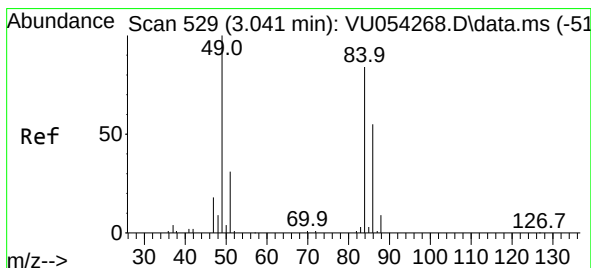
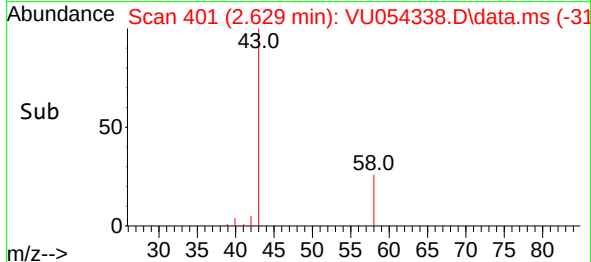
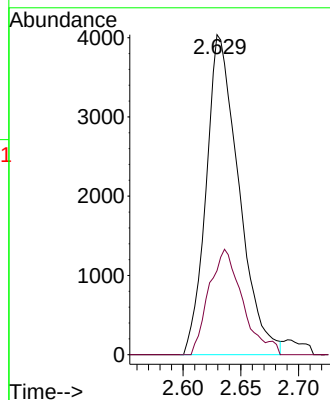
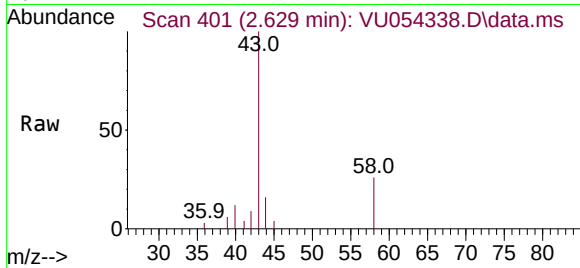
FB-01-20230524

Tgt Ion: 43 Resp: 7918

Ion Ratio Lower Upper

43 100

58 26.3 27.5 41.3#



#20

Methylene Chloride

Concen: 0.317 ug/l

RT: 3.041 min Scan# 529

Delta R.T. -0.000 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

Tgt Ion: 84 Resp: 1134

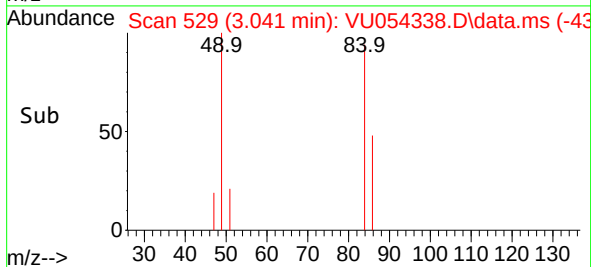
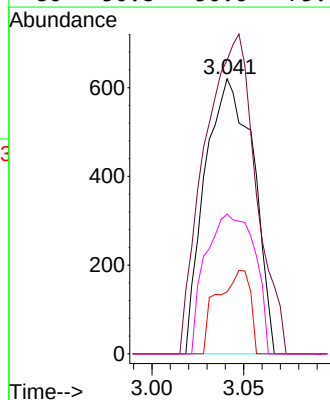
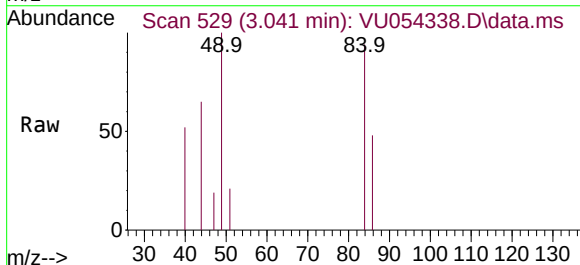
Ion Ratio Lower Upper

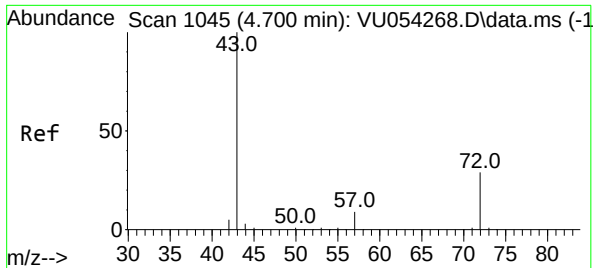
84 100

49 106.8 86.6 129.8

51 22.6 26.6 40.0#

86 50.8 50.6 75.8

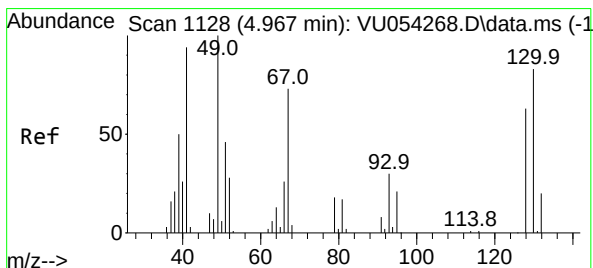
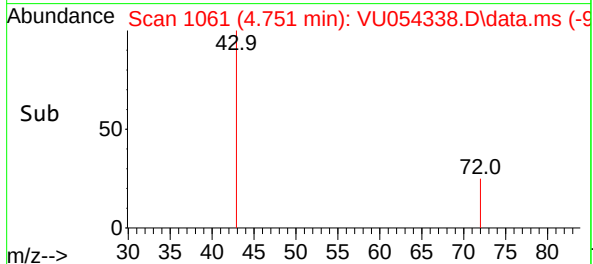
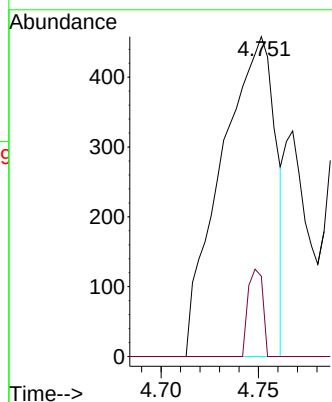
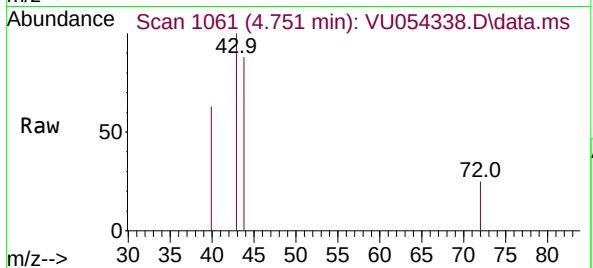




#25
2-Butanone
Concen: 0.336 ug/l
RT: 4.751 min Scan# 1106
Delta R.T. 0.051 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

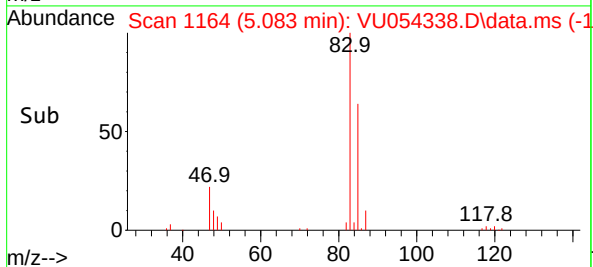
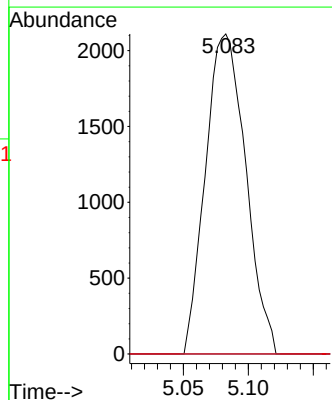
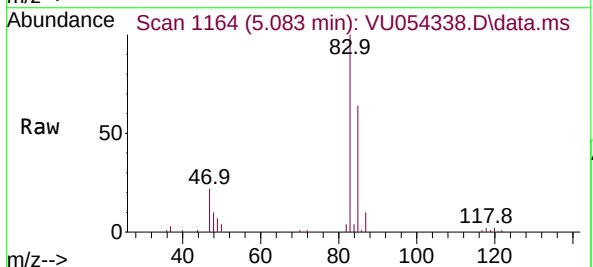
Instrument :
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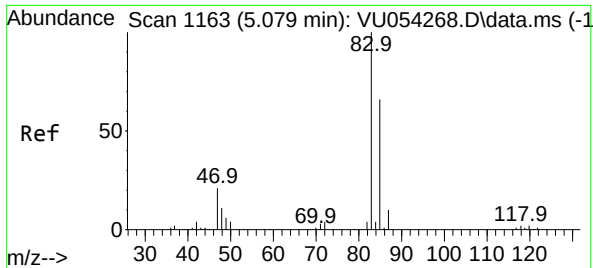
Tgt Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
72 25.1 23.8 35.6



#28
Bromochloromethane
Concen: 1.758 ug/l
RT: 5.083 min Scan# 1164
Delta R.T. 0.116 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 49 Resp: 4548
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 76.9 115.3#

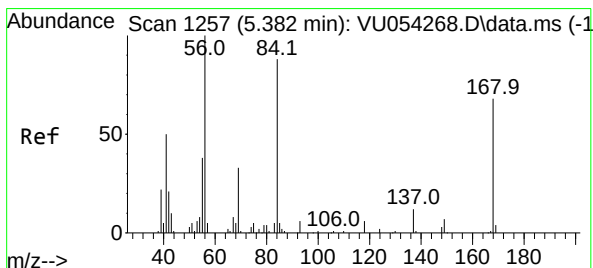
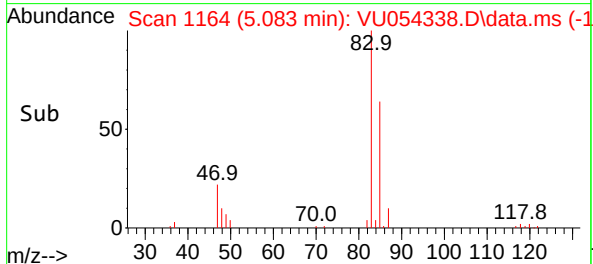
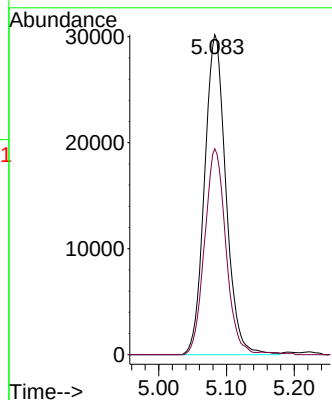
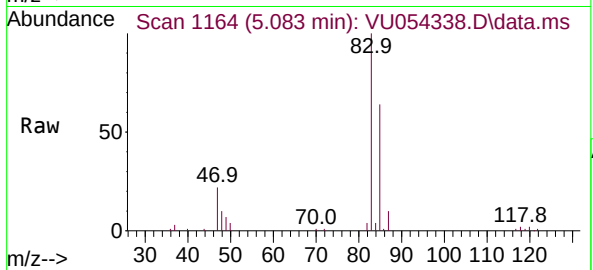




#30
Chloroform
Concen: 11.629 ug/l
RT: 5.083 min Scan# 1164
Delta R.T. 0.004 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

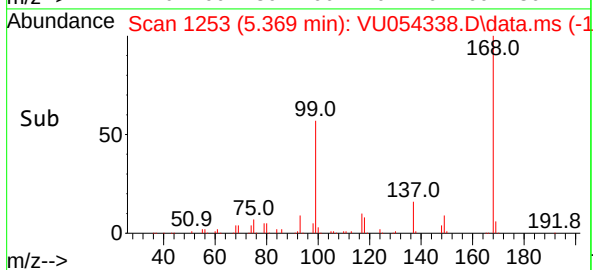
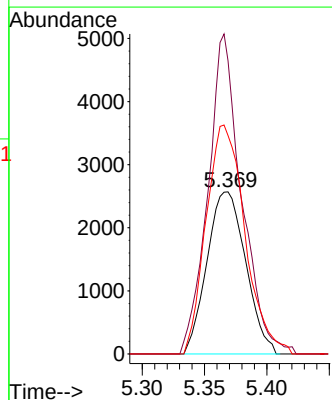
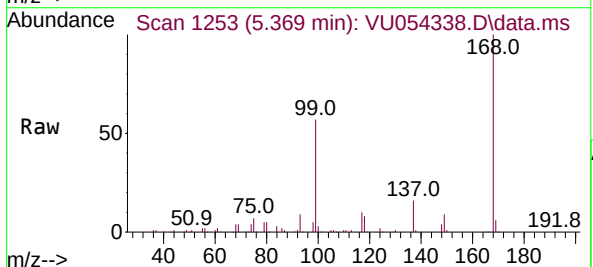
Instrument :
MSVOA_U
ClientSampleId :
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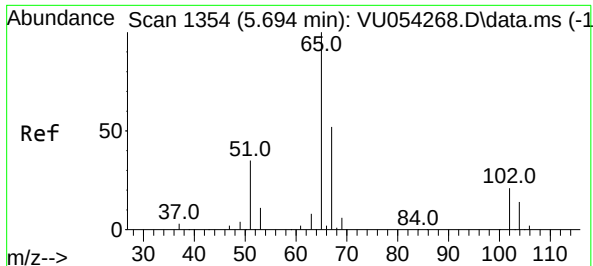
Tgt Ion: 83 Resp: 66073
Ion Ratio Lower Upper
83 100
85 64.3 51.2 76.8



#31
Cyclohexane
Concen: 1.135 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.013 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 56 Resp: 5547
Ion Ratio Lower Upper
56 100
69 180.8 27.8 41.8#
84 134.7 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 52.598 ug/l

RT: 5.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

Instrument :

MSVOA_U

ClientSampleId :

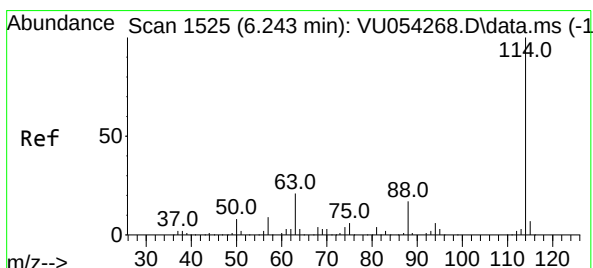
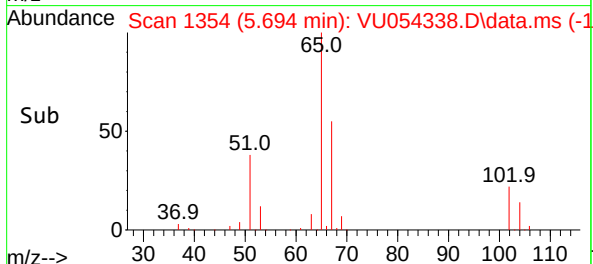
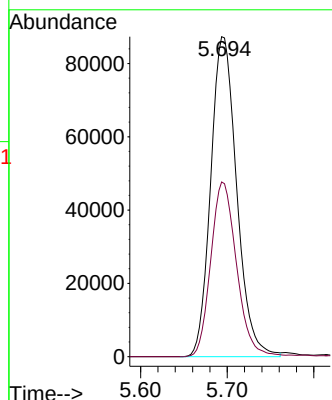
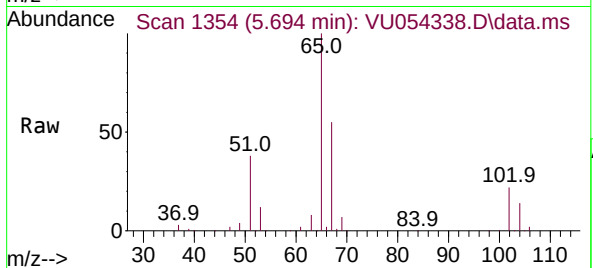
FB-01-20230524

Tgt Ion: 65 Resp: 182070

Ion Ratio Lower Upper

65 100

67 54.1 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: VU054338.D

Acq: 31 May 2023 15:25

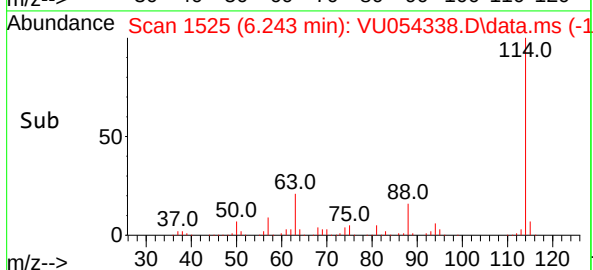
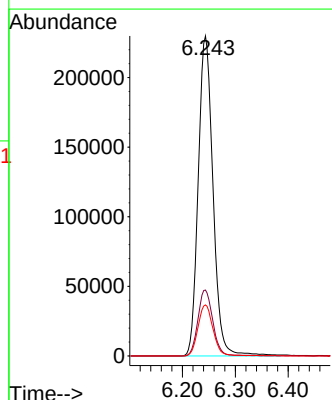
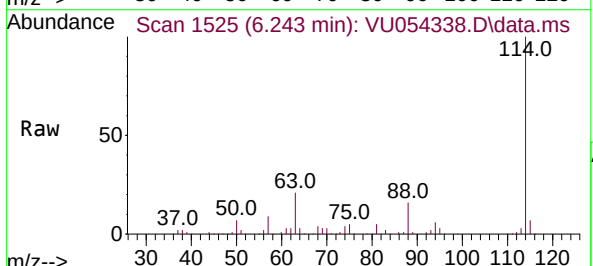
Tgt Ion: 114 Resp: 446673

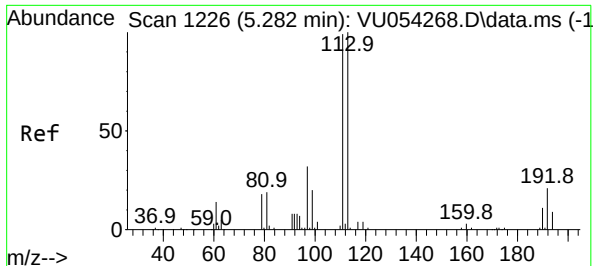
Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.8

88 16.0 0.0 29.2

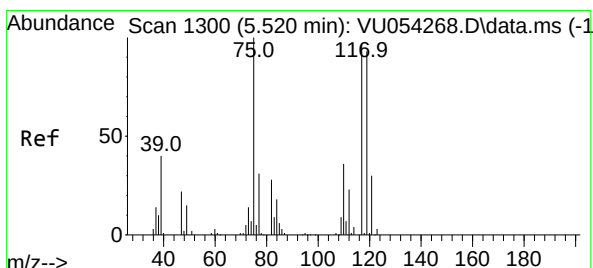
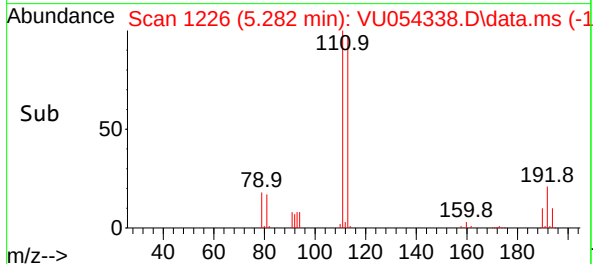
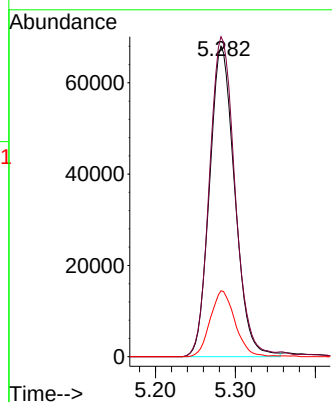
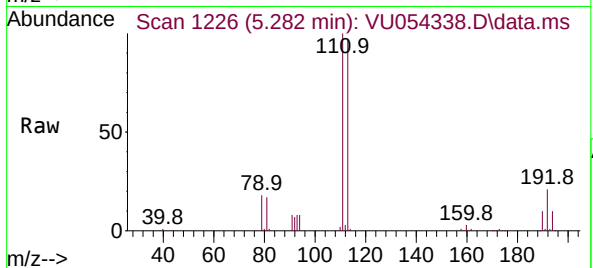




#35
Dibromofluoromethane
Concen: 51.720 ug/l
RT: 5.282 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

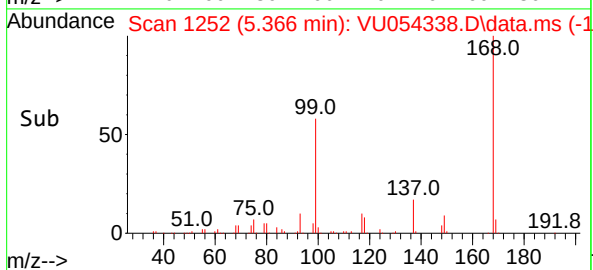
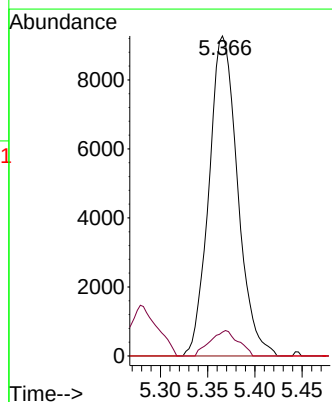
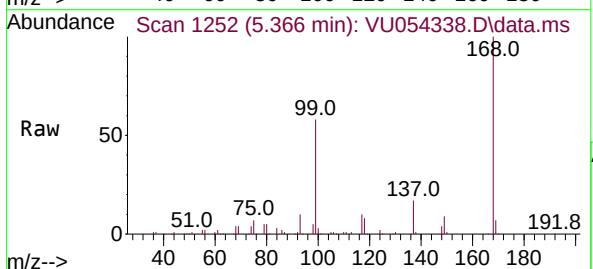
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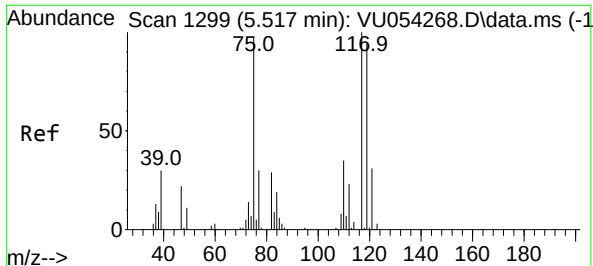
Tgt Ion:113 Resp: 148771
Ion Ratio Lower Upper
113 100
111 104.2 82.1 123.1
192 20.8 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.336 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 75 Resp: 19592
Ion Ratio Lower Upper
75 100
110 7.8 18.4 55.2#
77 0.0 25.1 37.7#

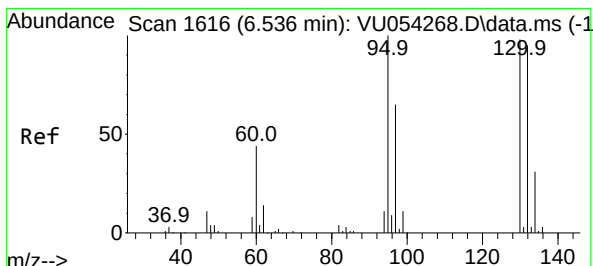
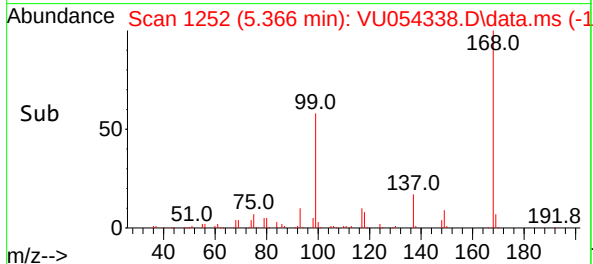
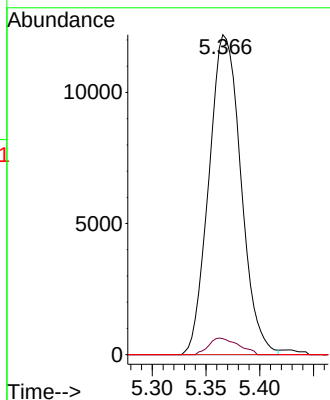
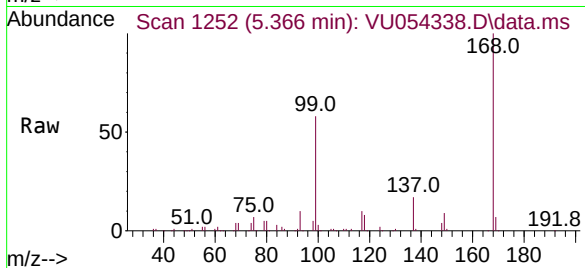




#38
Carbon Tetrachloride
Concen: 5.467 ug/l
RT: 5.366 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

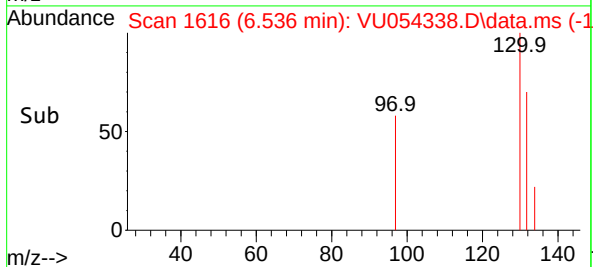
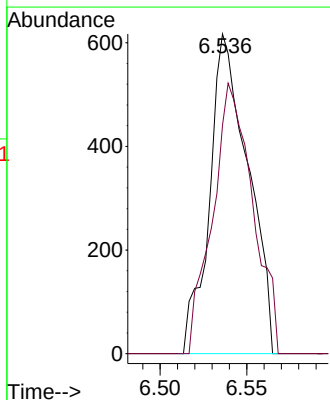
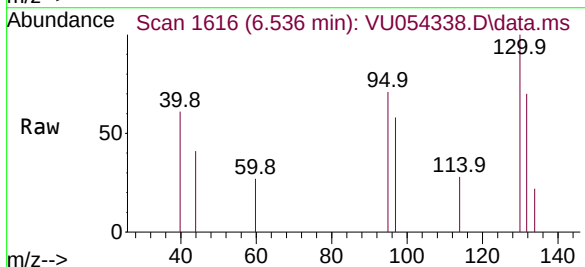
Instrument :
MSVOA_U
ClientSampleId :
FB-01-20230524

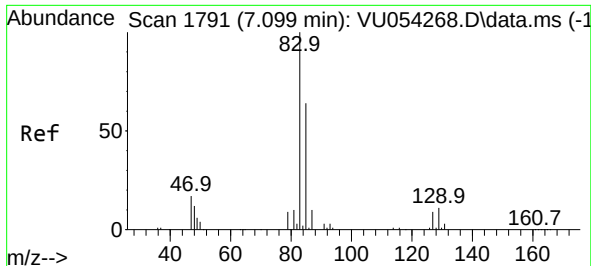
Tgt Ion:117 Resp: 25283
Ion Ratio Lower Upper
117 100
119 5.0 76.8 115.2#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 0.265 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion:130 Resp: 954
Ion Ratio Lower Upper
130 100
95 71.5 0.0 184.6

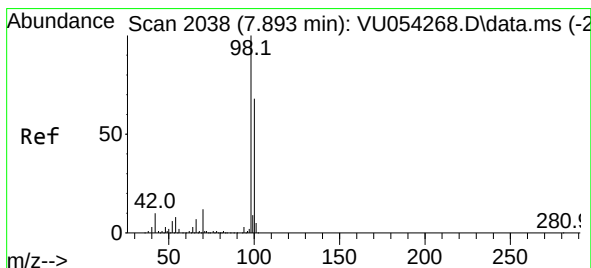
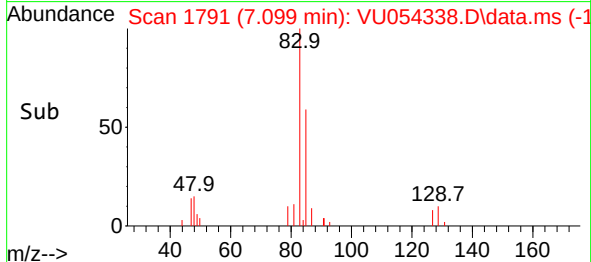
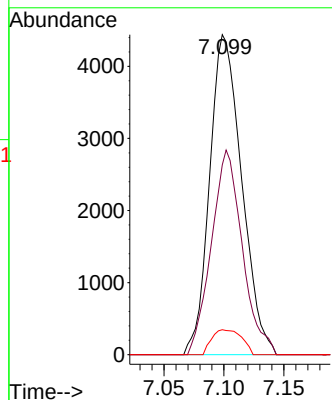
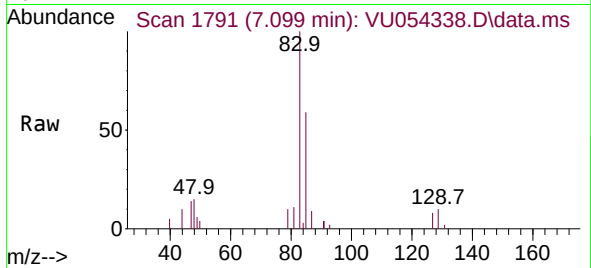




#47
Bromodichloromethane
Concen: 1.784 ug/l
RT: 7.099 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

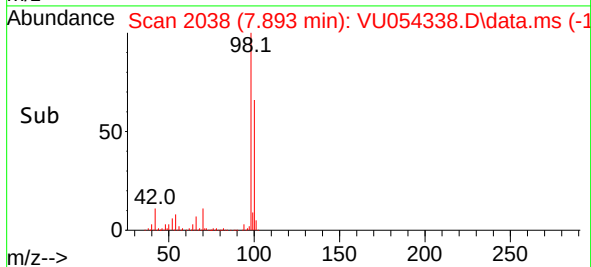
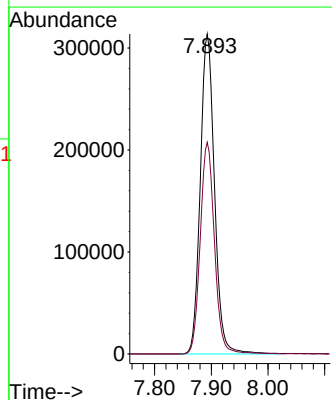
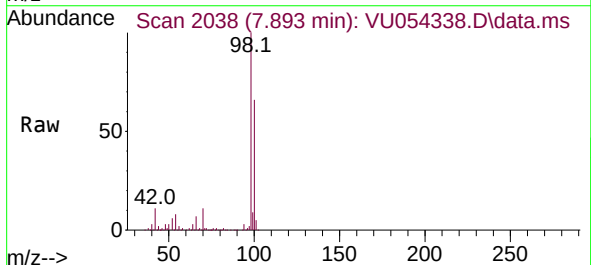
Instrument :
MSVOA_U
ClientSampleId :
FB-01-20230524

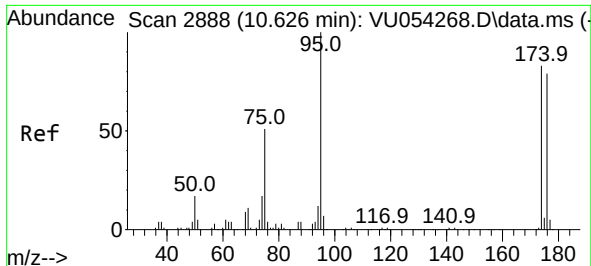
Tgt Ion: 83 Resp: 8254
Ion Ratio Lower Upper
83 100
85 59.3 51.4 77.2
127 7.8 7.1 10.7



#50
Toluene-d8
Concen: 49.987 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion: 98 Resp: 546914
Ion Ratio Lower Upper
98 100
100 66.2 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 44.262 ug/l

RT: 10.626 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

Instrument :

MSVOA_U

ClientSampleId :

FB-01-20230524

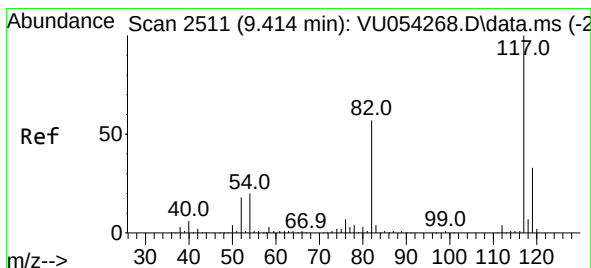
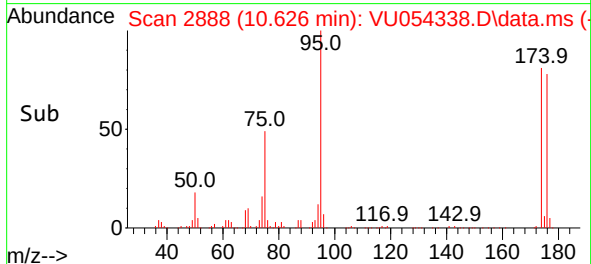
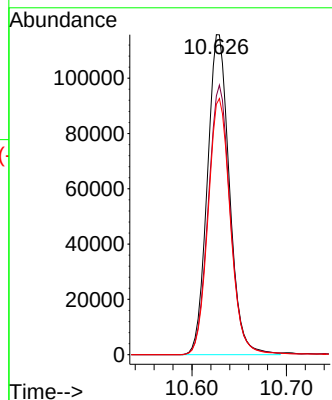
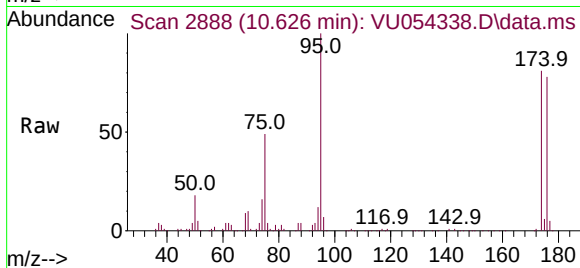
Tgt Ion: 95 Resp: 187778

Ion Ratio Lower Upper

95 100

174 84.6 0.0 182.0

176 80.8 0.0 177.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.410 min Scan# 2510

Delta R.T. -0.004 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

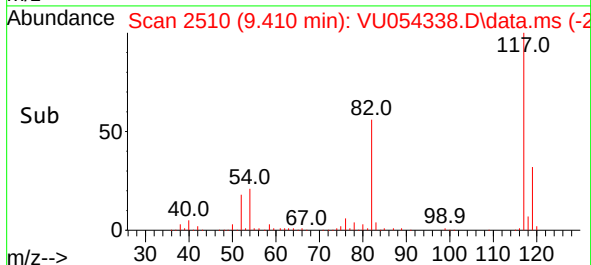
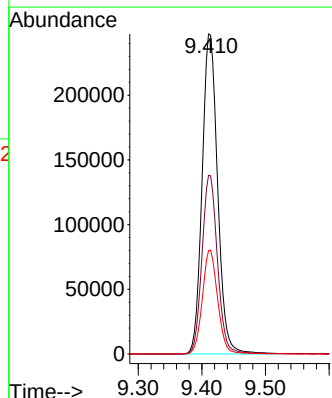
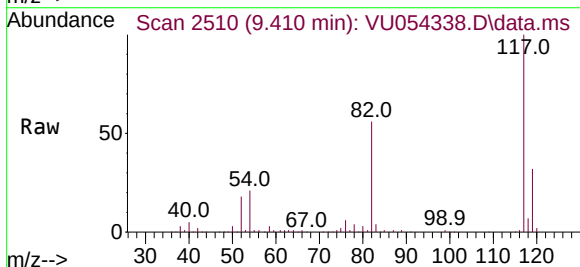
Tgt Ion: 117 Resp: 418824

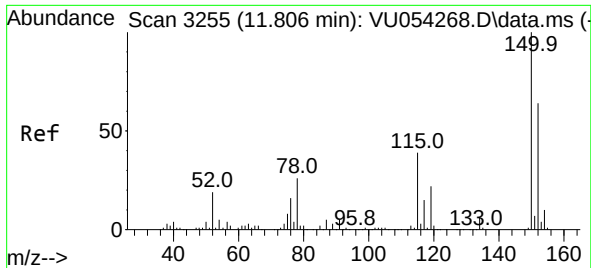
Ion Ratio Lower Upper

117 100

82 55.8 41.7 62.5

119 32.3 25.7 38.5

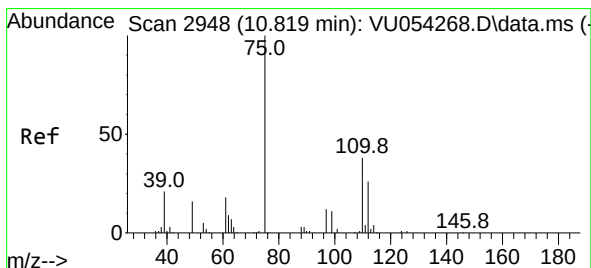
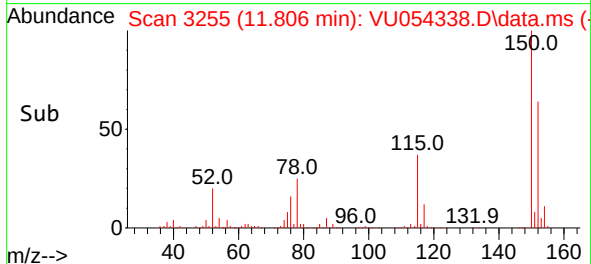
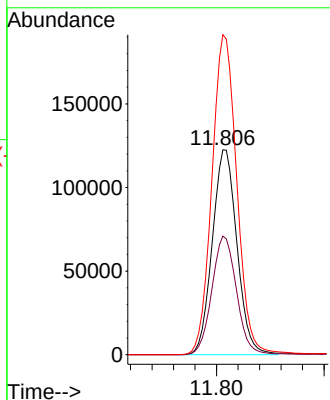
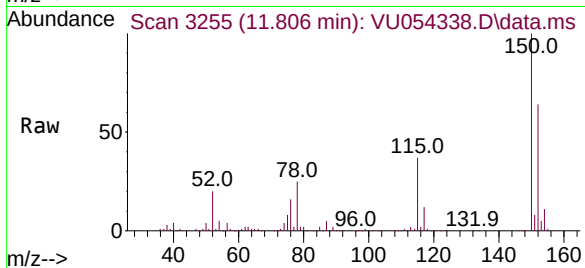




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU054338.D
 Acq: 31 May 2023 15:25

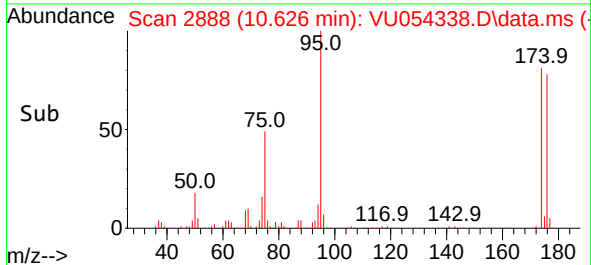
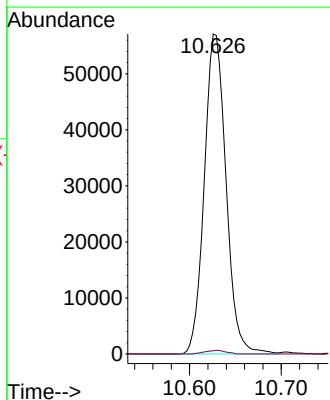
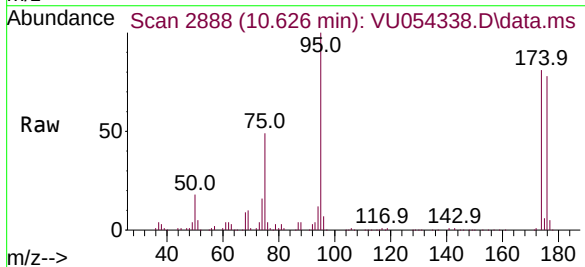
Instrument :
 MSVOA_U
 ClientSampleId :
 FB-01-20230524

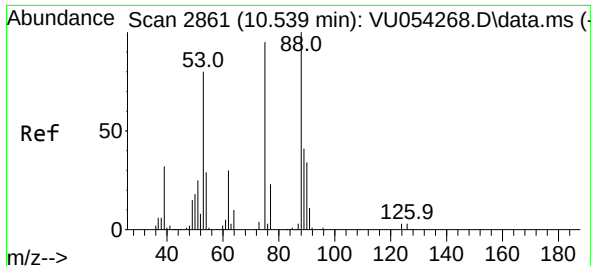
Tgt Ion:152 Resp: 195425
 Ion Ratio Lower Upper
 152 100
 115 57.9 37.0 110.9
 150 158.0 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 16.506 ug/l
 RT: 10.626 min Scan# 2888
 Delta R.T. -0.193 min
 Lab File: VU054338.D
 Acq: 31 May 2023 15:25

Tgt Ion: 75 Resp: 94147
 Ion Ratio Lower Upper
 75 100
 77 1.1 15.8 47.3#

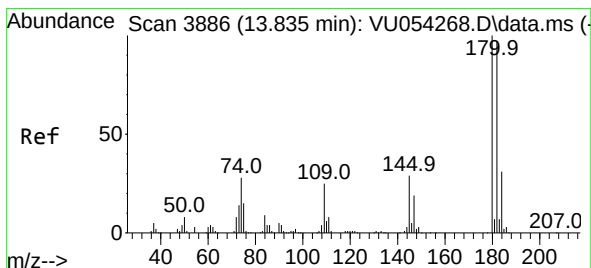
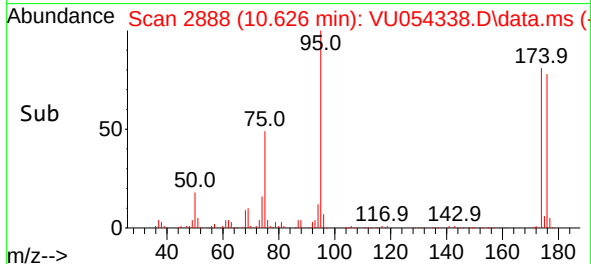
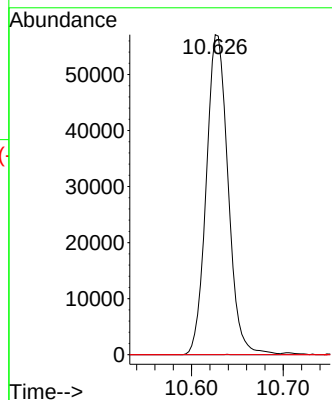
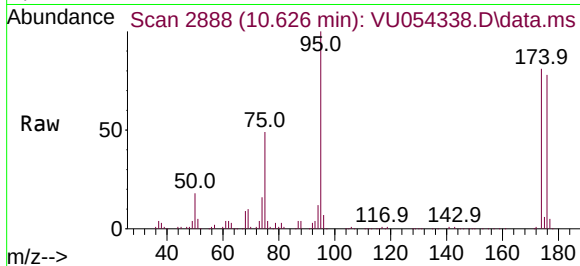




#81
trans-1,4-Dichloro-2-butene
Concen: 62.856 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

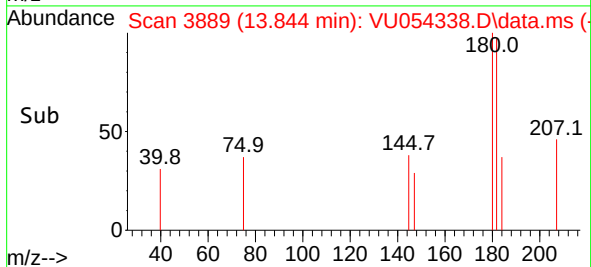
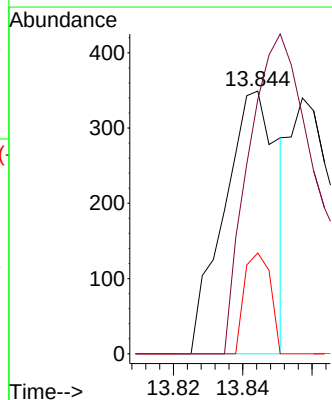
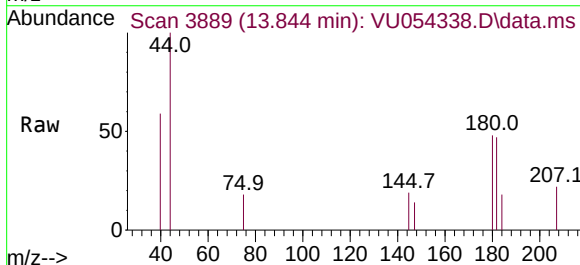
Instrument :
MSVOA_U
ClientSampleId :
FB-01-20230524

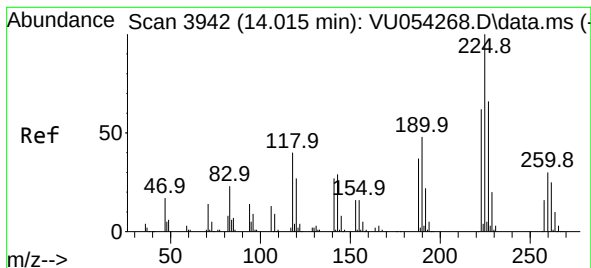
Tgt Ion: 75 Resp: 94147
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.724 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.009 min
Lab File: VU054338.D
Acq: 31 May 2023 15:25

Tgt Ion:180 Resp: 375
Ion Ratio Lower Upper
180 100
182 173.9 47.9 143.6#
145 18.7 14.0 41.9





#94

Hexachlorobutadiene

Concen: 0.830 ug/l

RT: 14.012 min Scan# 3942

Delta R.T. -0.003 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

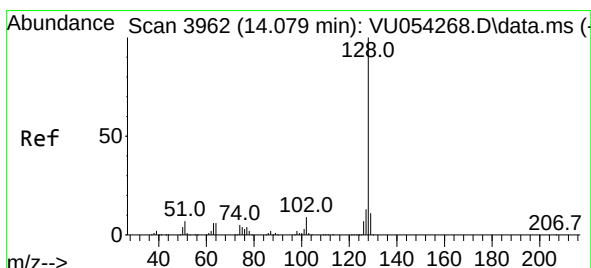
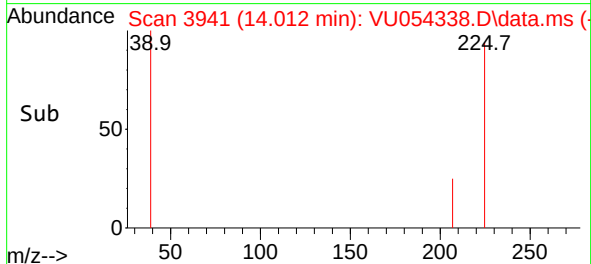
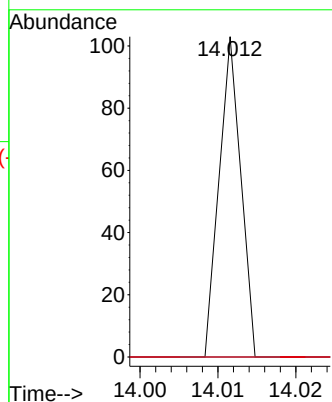
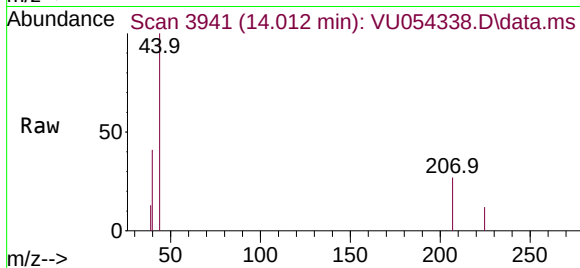
Instrument :

MSVOA_U

ClientSampleId :

FB-01-20230524

Tgt Ion:	225	Resp:	20
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	0.0	32.0	96.2#



#95

Naphthalene

Concen: 2.185 ug/l

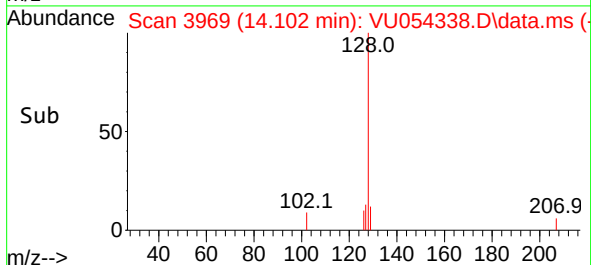
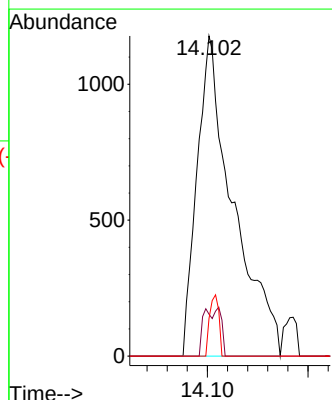
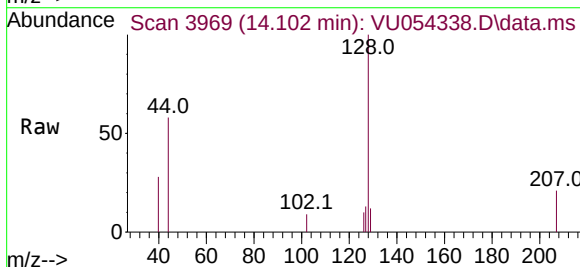
RT: 14.102 min Scan# 3969

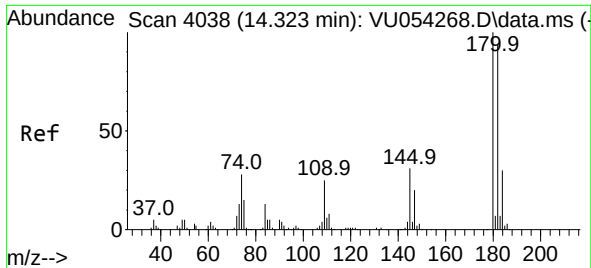
Delta R.T. 0.023 min

Lab File: VU054338.D

Acq: 31 May 2023 15:25

Tgt Ion:	128	Resp:	2922
Ion	Ratio	Lower	Upper
128	100		
127	4.0	10.3	15.5#
129	4.9	8.6	13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.373 ug/l

RT: 14.333 min Scan# 40

Delta R.T. 0.010 min

Lab File: VU054338.D

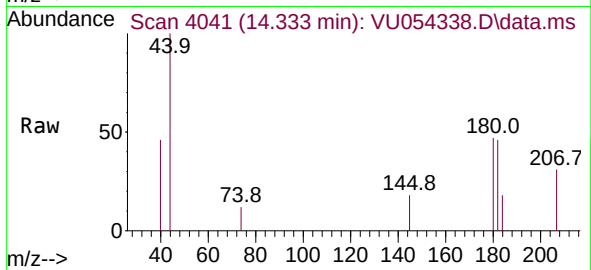
Acq: 31 May 2023 15:25

Instrument :

MSVOA_U

ClientSampleId :

FB-01-20230524



Tgt Ion:180 Resp: 542

Ion Ratio Lower Upper

180 100

182 127.9 48.4 145.0

145 20.1 14.8 44.4

