

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054323.D
 Acq On : 30 May 2023 18:55
 Operator : JC/MD
 Sample : 02912-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE134D2-20230523

Quant Time: May 31 06:30:39 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

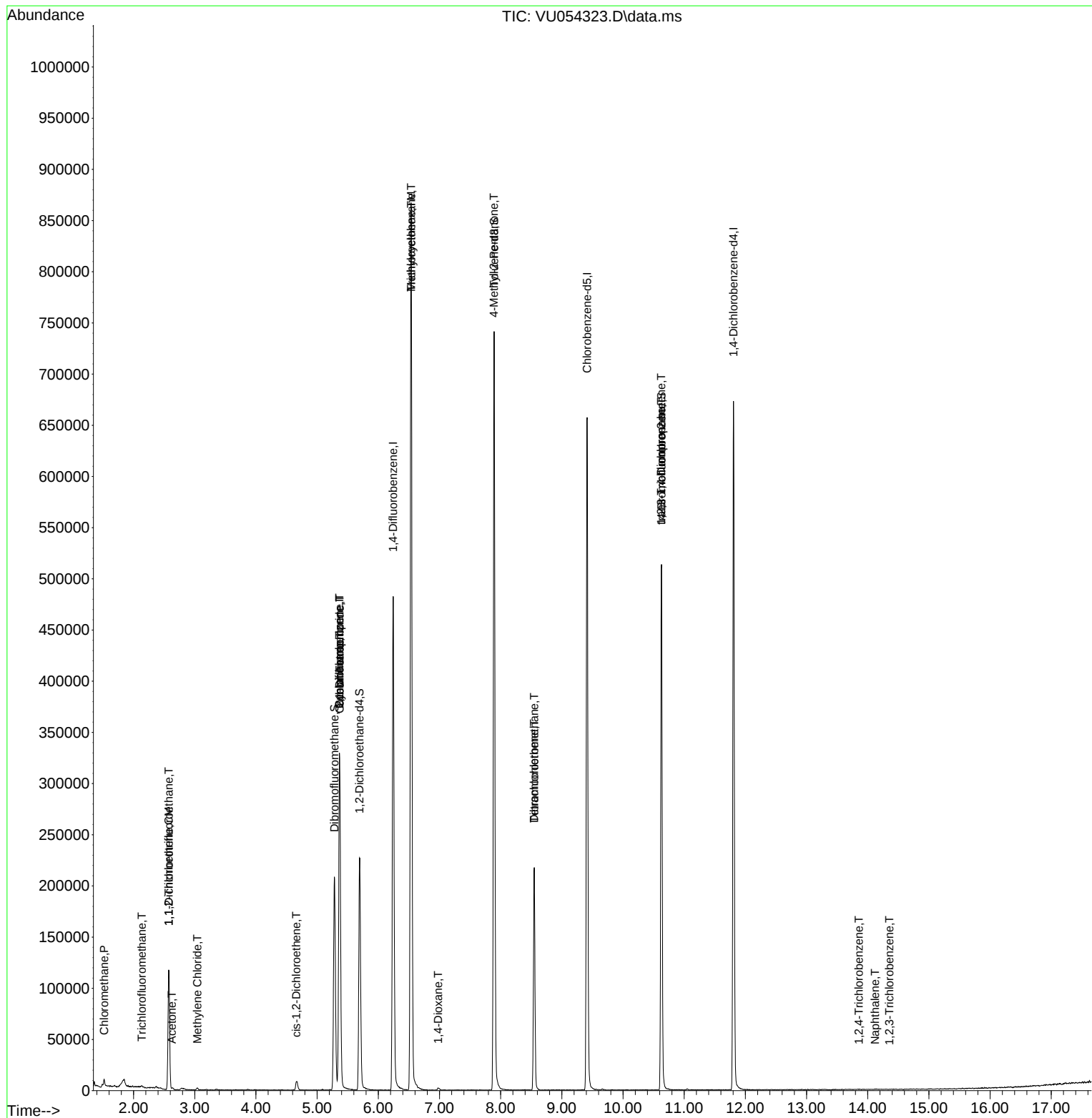
Compound	R.T.	T. Q	Ion	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.366	168		240557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114		398815	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117		383489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152		185665	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.694	65		170710	54.134	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	108.260%	
35) Dibromofluoromethane	5.282	113		136910	53.308	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.620%	
50) Toluene-d8	7.893	98		498336	51.012	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	102.020%	
62) 4-Bromofluorobenzene	10.629	95		172471	45.533	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	91.060%	
Target Compounds							
						Qvalue	
3) Chloromethane	1.520	50		4974	1.415	ug/l	99
7) Trichlorofluoromethane	2.134	101		1026	0.222	ug/l #	79
9) 1,1,2-Trichlorotrifluo...	2.575	101		45258	18.110	ug/l	95
12) 1,1-Dichloroethene	2.575	96		957	0.370	ug/l #	74
16) Acetone	2.626	43		1062	0.588	ug/l	98
20) Methylene Chloride	3.041	84		776	0.238	ug/l	87
27) cis-1,2-Dichloroethene	4.658	96		5104	1.656	ug/l	100
31) Cyclohexane	5.366	56		4645	1.043	ug/l #	1
36) 1,1-Dichloropropene	5.366	75		18097	4.486	ug/l #	49
38) Carbon Tetrachloride	5.369	117		23462	5.682	ug/l #	16
39) Methylcyclohexane	6.536	83		4068	0.890	ug/l #	1
44) Trichloroethene	6.536	130		298027	92.658	ug/l	94
49) 1,4-Dioxane	6.980	88		2047	23.578	ug/l #	54
51) 4-Methyl-2-Pentanone	7.890	43		1998	0.442	ug/l #	1
60) Dibromochloromethane	8.549	129		47649	15.425	ug/l #	11
64) Tetrachloroethene	8.549	164		49632	17.196	ug/l	95
76) 1,2,3-Trichloropropane	10.626	75		88632	16.356	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75		88632	62.284	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.857	180		78	1.661	ug/l #	12
95) Naphthalene	14.118	128		211	2.006	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.352	180		44	1.265	ug/l #	12

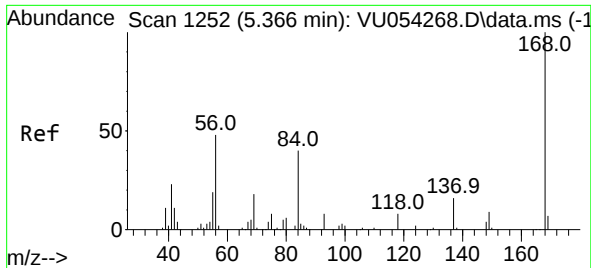
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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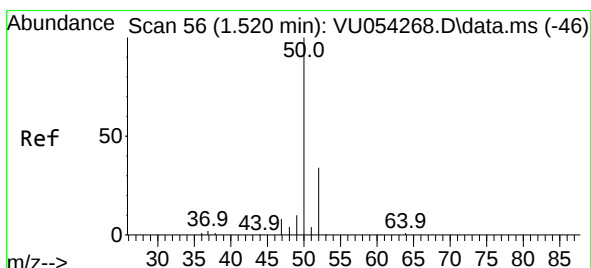
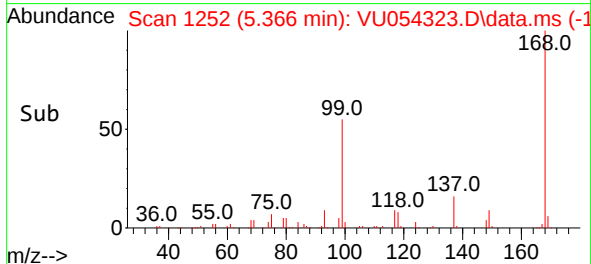
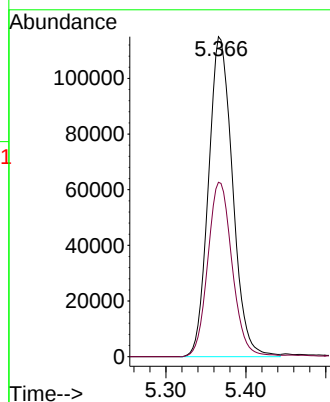
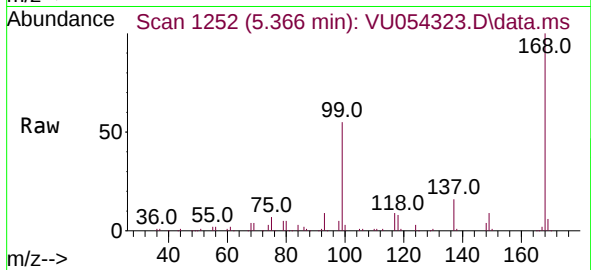




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

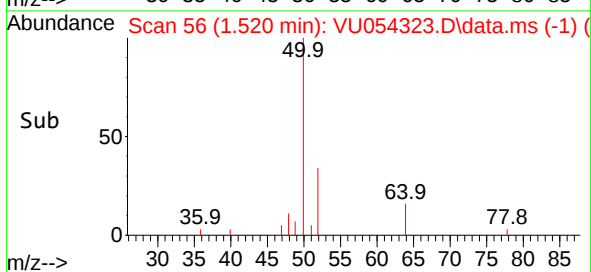
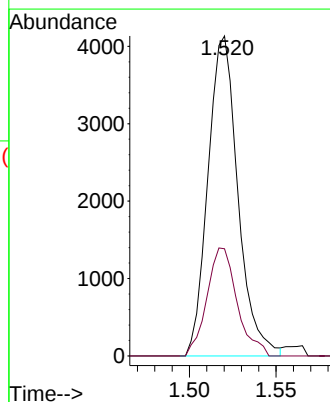
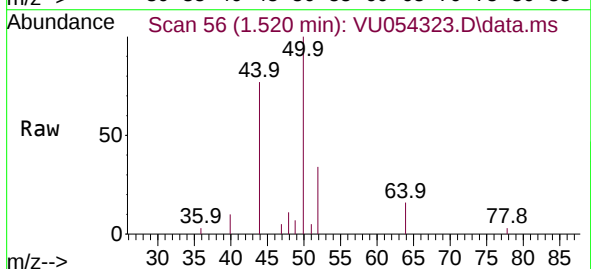
Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

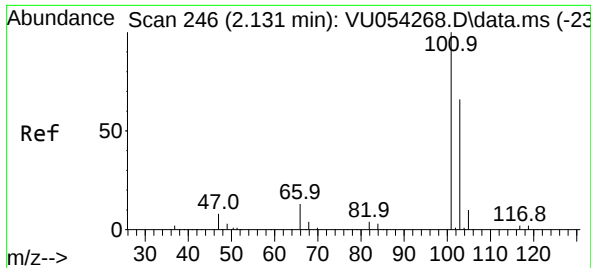
Tgt Ion:168 Resp: 240557
Ion Ratio Lower Upper
168 100
99 54.5 39.3 58.9



#3
Chloromethane
Concen: 1.415 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

Tgt Ion: 50 Resp: 4974
Ion Ratio Lower Upper
50 100
52 33.5 27.4 41.2

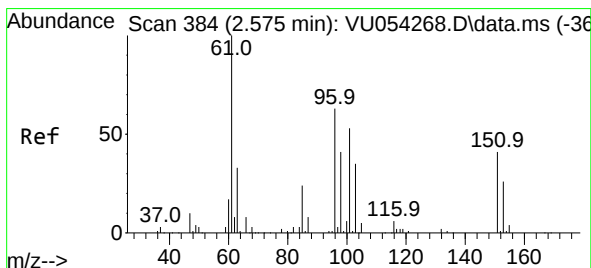
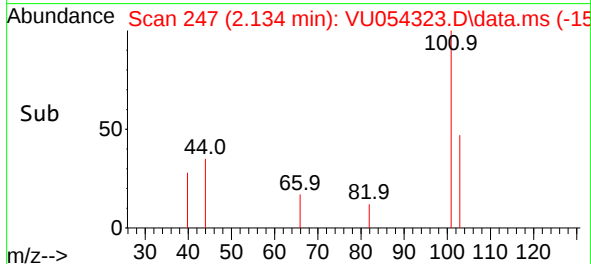
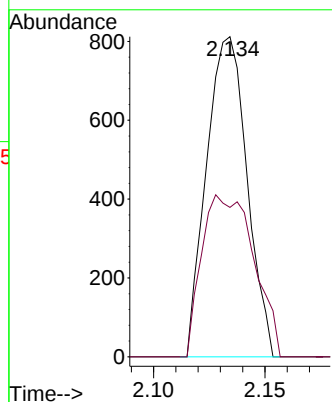
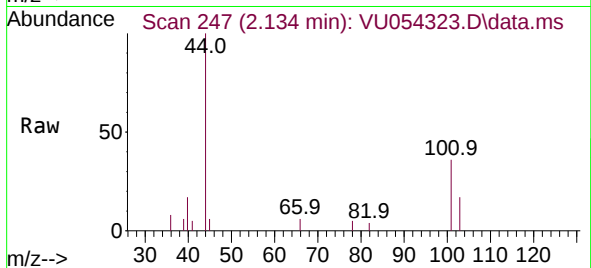




#7
 Trichlorofluoromethane
 Concen: 0.222 ug/l
 RT: 2.134 min Scan# 246
 Delta R.T. 0.003 min
 Lab File: VU054323.D
 Acq: 30 May 2023 18:55

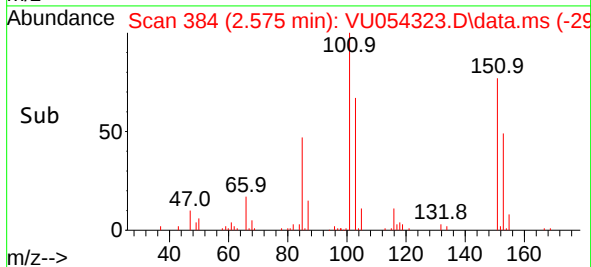
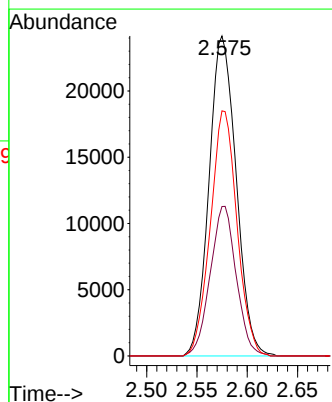
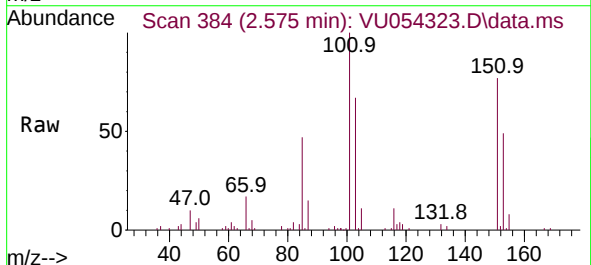
Instrument :
 MSVOA_U
 ClientSampleId :
 RE134D2-20230523

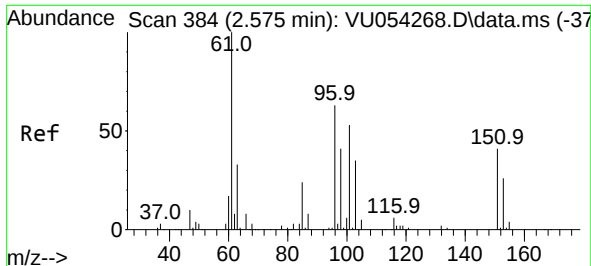
Tgt Ion:101 Resp: 1026
 Ion Ratio Lower Upper
 101 100
 103 46.7 50.6 75.8#



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.110 ug/l
 RT: 2.575 min Scan# 384
 Delta R.T. -0.000 min
 Lab File: VU054323.D
 Acq: 30 May 2023 18:55

Tgt Ion:101 Resp: 45258
 Ion Ratio Lower Upper
 101 100
 85 44.9 33.9 50.9
 151 75.3 64.0 96.0





#12

1,1-Dichloroethene

Concen: 0.370 ug/l

RT: 2.575 min Scan# 384

Delta R.T. -0.000 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

RE134D2-20230523

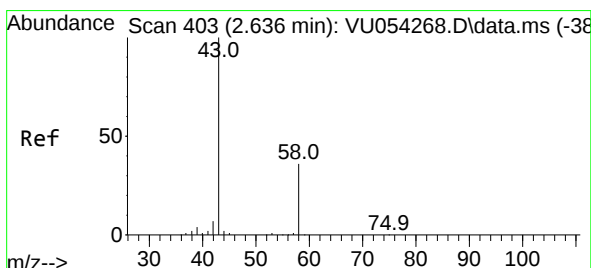
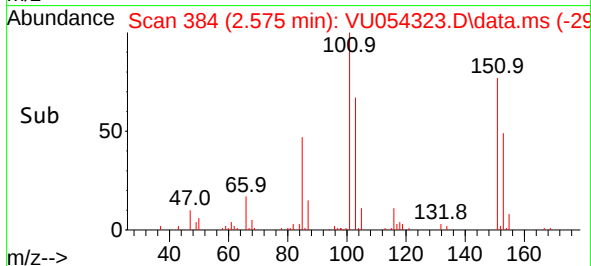
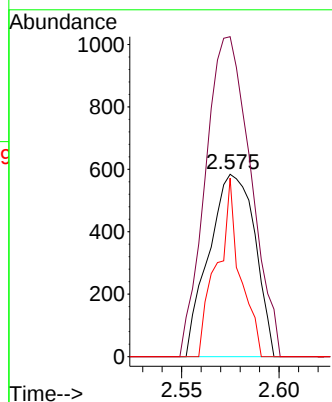
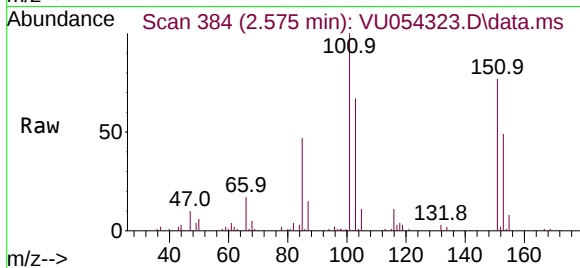
Tgt Ion: 96 Resp: 957

Ion Ratio Lower Upper

96 100

61 175.5 122.2 183.2

98 97.9 50.7 76.1#



#16

Acetone

Concen: 0.588 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.010 min

Lab File: VU054323.D

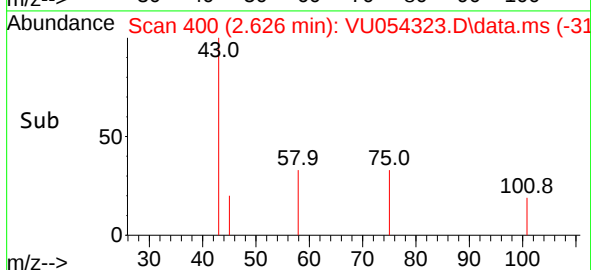
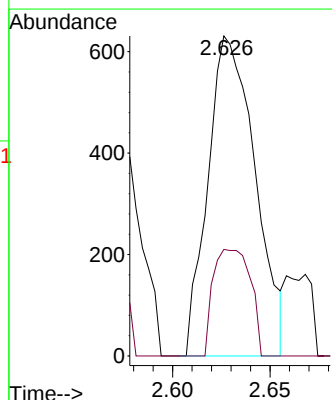
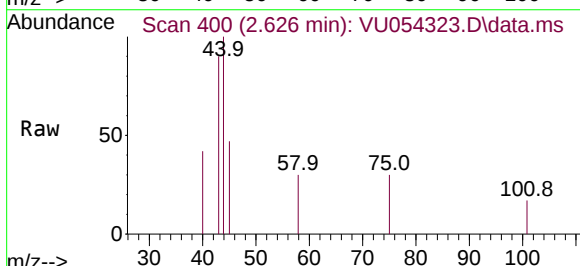
Acq: 30 May 2023 18:55

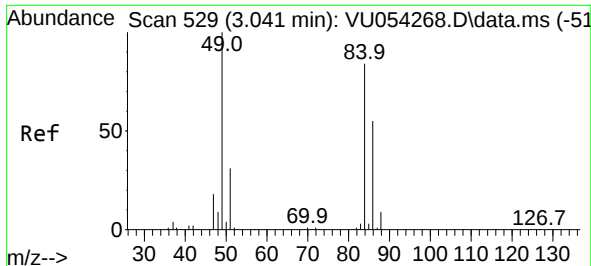
Tgt Ion: 43 Resp: 1062

Ion Ratio Lower Upper

43 100

58 33.3 27.5 41.3

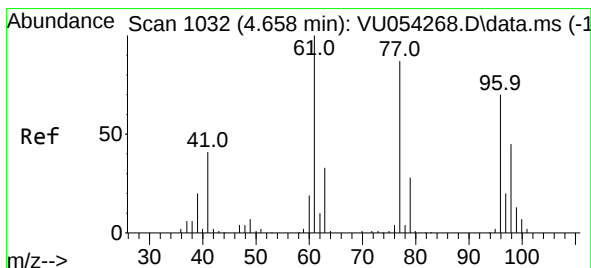
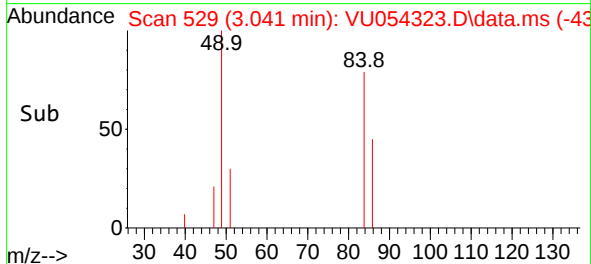
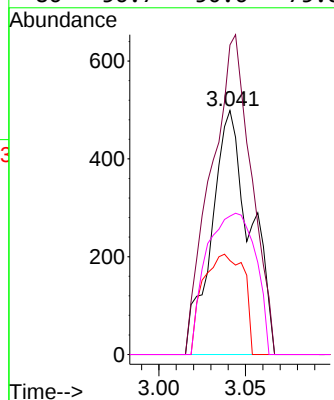
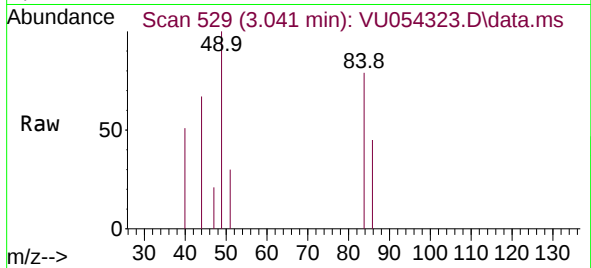




#20
Methylene Chloride
Concen: 0.238 ug/l
RT: 3.041 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

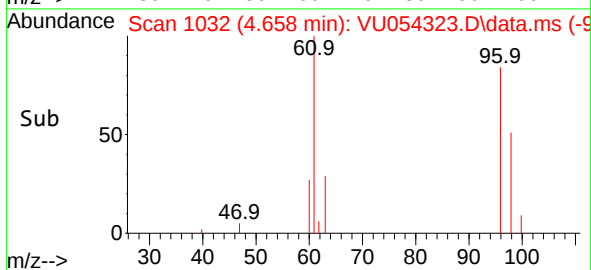
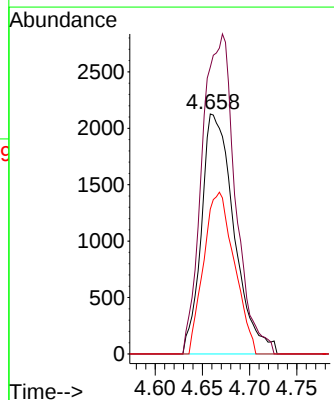
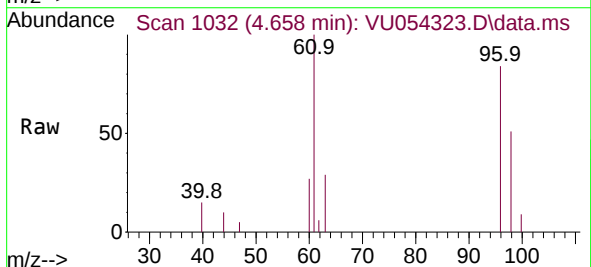
Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

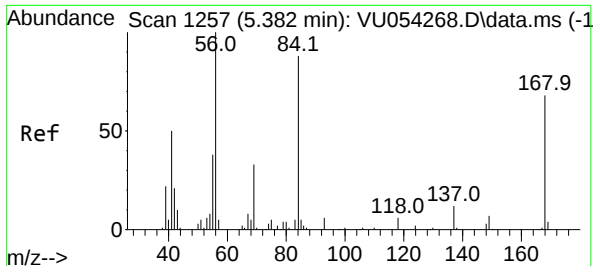
Tgt Ion:	84	Resp:	776
Ion	Ratio	Lower	Upper
84	100		
49	126.9	86.6	129.8
51	38.5	26.6	40.0
86	56.7	50.6	75.8



#27
cis-1,2-Dichloroethene
Concen: 1.656 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. 0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

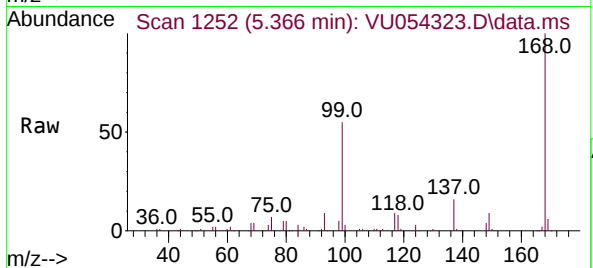
Tgt Ion:	96	Resp:	5104
Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	271.6
98	63.1	0.0	128.2



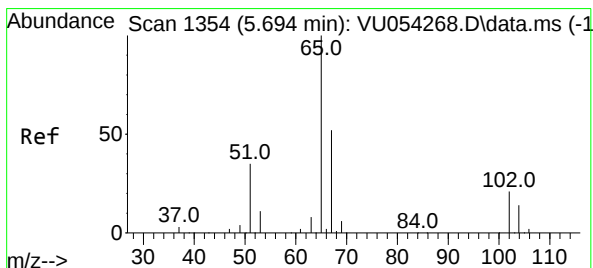
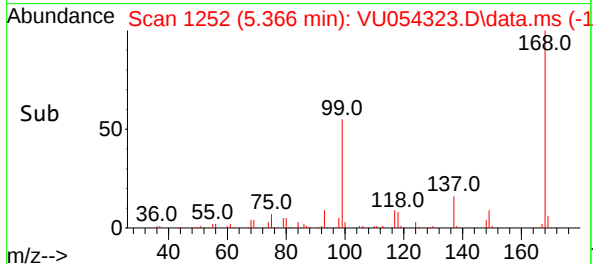
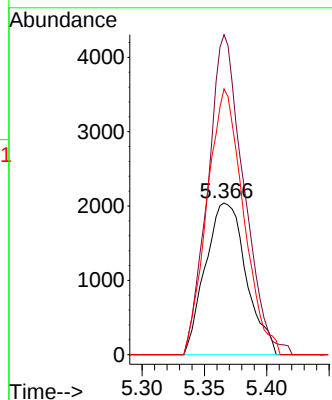


#31
Cyclohexane
Concen: 1.043 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.016 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

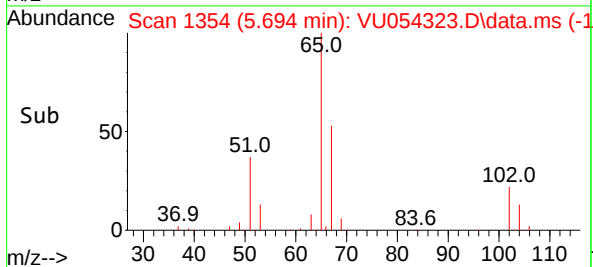
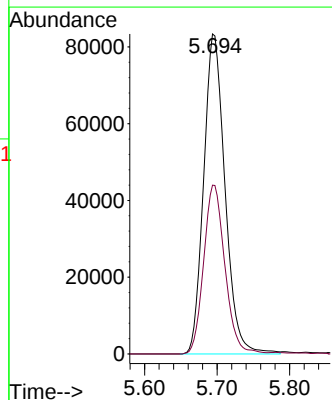
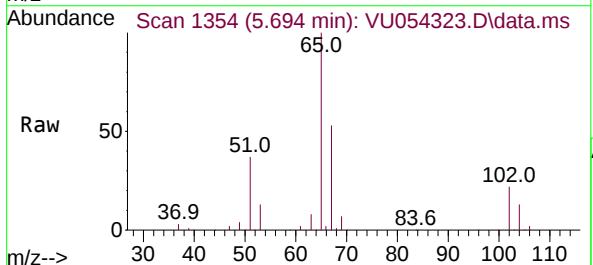


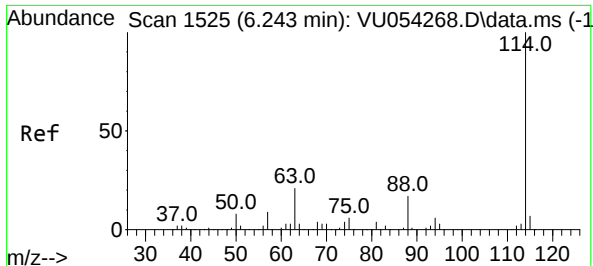
Tgt Ion: 56 Resp: 4645
Ion Ratio Lower Upper
56 100
69 210.9 27.8 41.8#
84 175.2 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 54.134 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

Tgt Ion: 65 Resp: 170710
Ion Ratio Lower Upper
65 100
67 52.4 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: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

RE134D2-20230523

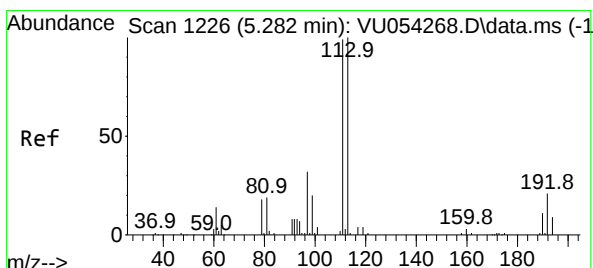
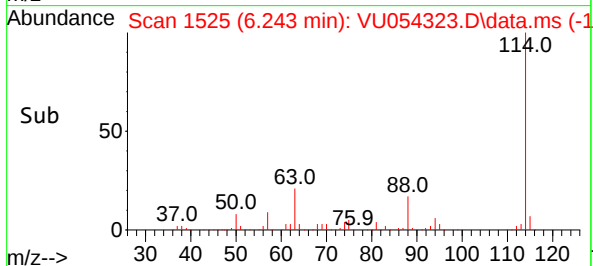
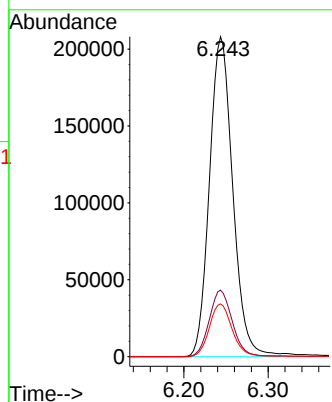
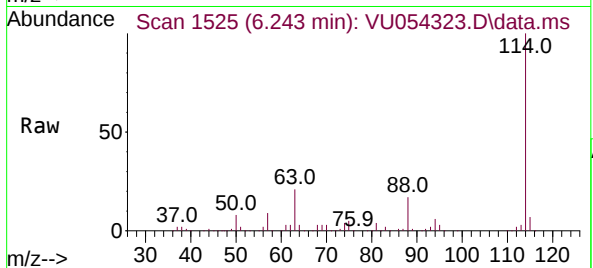
Tgt Ion:114 Resp: 398815

Ion Ratio Lower Upper

114 100

63 20.8 0.0 37.8

88 16.5 0.0 29.2



#35

Dibromofluoromethane

Concen: 53.308 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

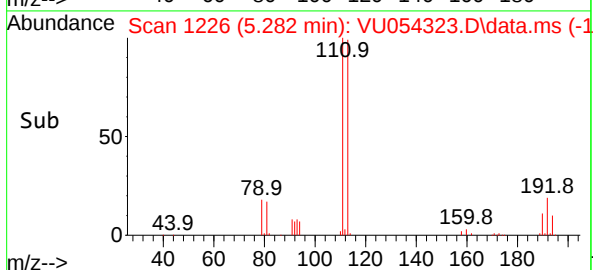
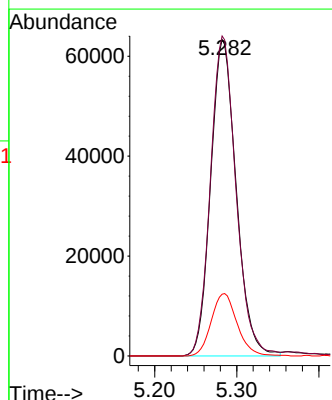
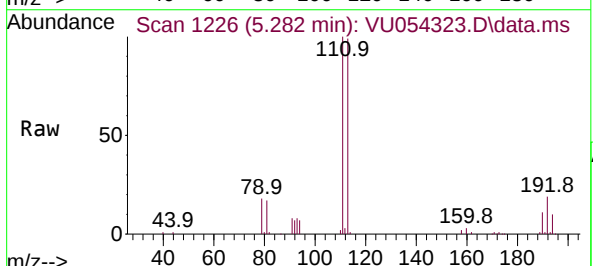
Tgt Ion:113 Resp: 136910

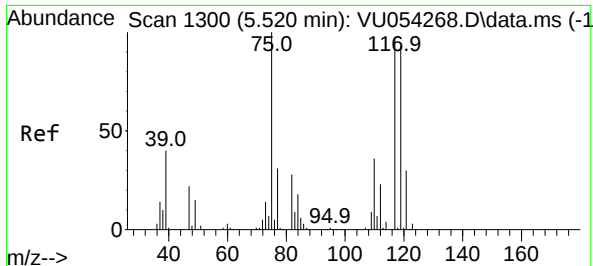
Ion Ratio Lower Upper

113 100

111 101.3 82.1 123.1

192 20.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.486 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

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RE134D2-20230523

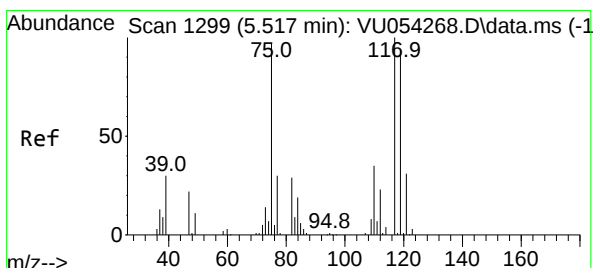
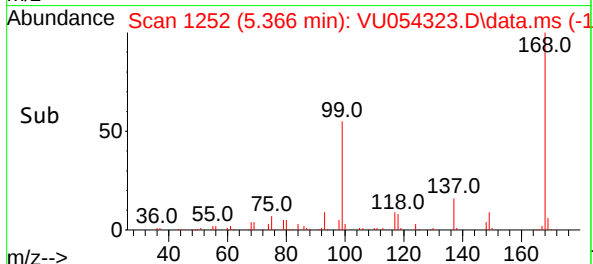
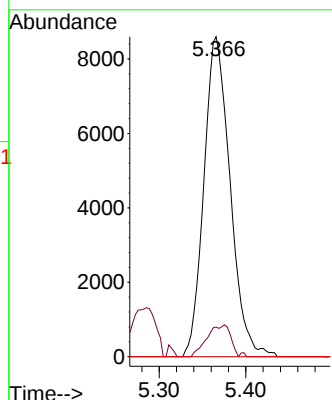
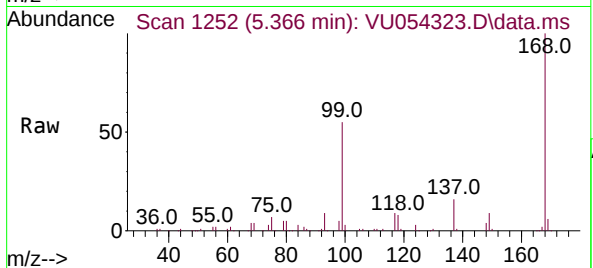
Tgt Ion: 75 Resp: 18097

Ion Ratio Lower Upper

75 100

110 8.9 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.682 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

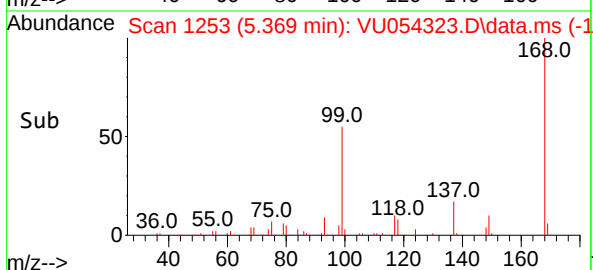
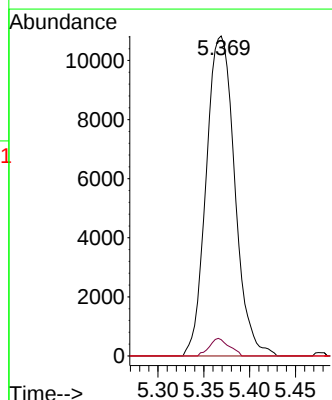
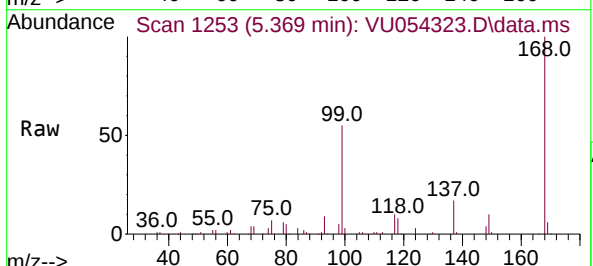
Tgt Ion: 117 Resp: 23462

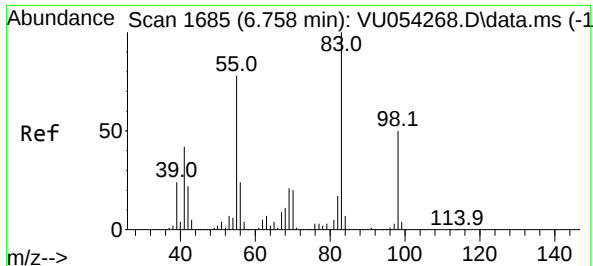
Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 0.890 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.222 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

RE134D2-20230523

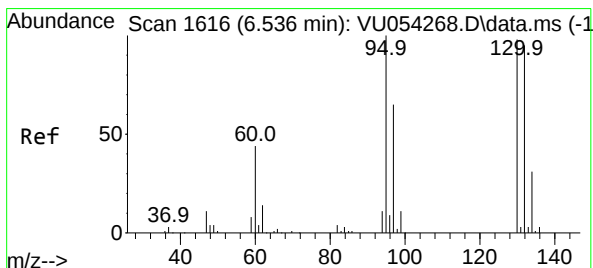
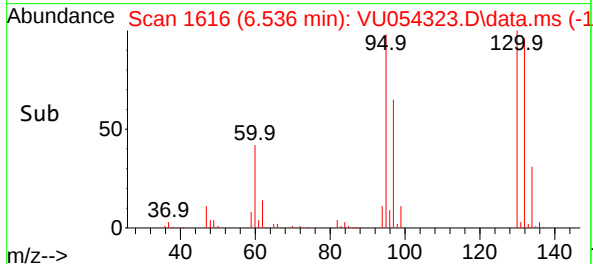
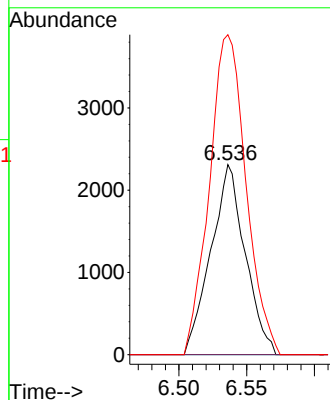
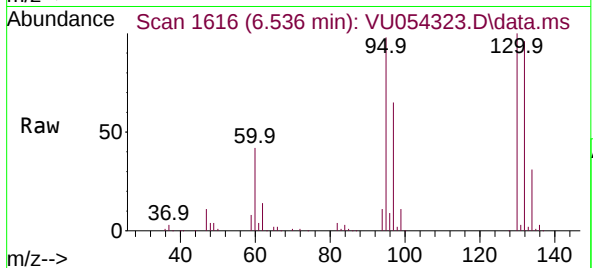
Tgt Ion: 83 Resp: 4068

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 168.3 37.3 55.9#



#44

Trichloroethene

Concen: 92.658 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. 0.000 min

Lab File: VU054323.D

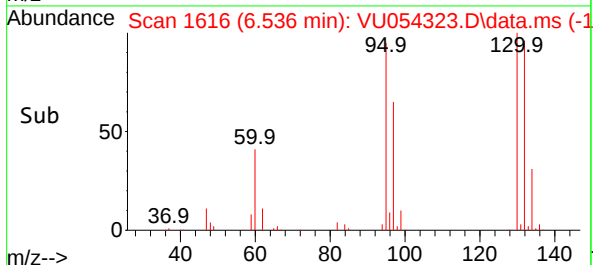
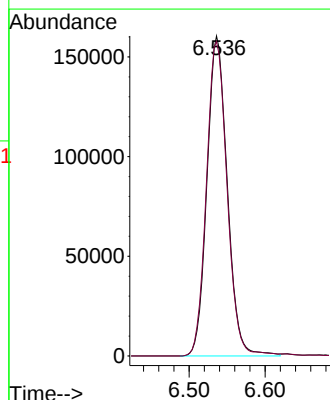
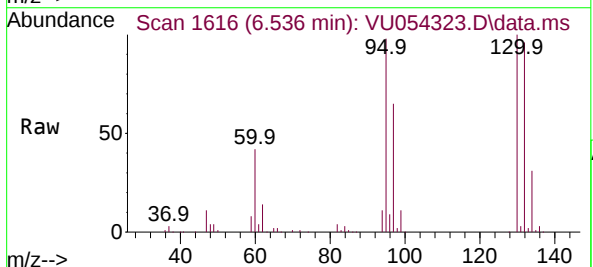
Acq: 30 May 2023 18:55

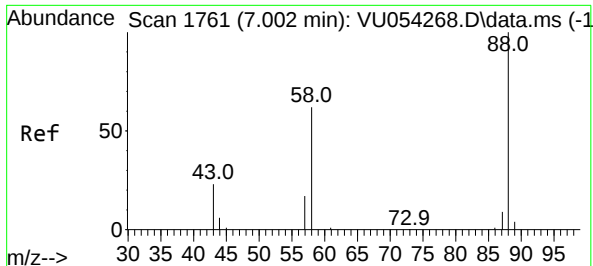
Tgt Ion:130 Resp: 298027

Ion Ratio Lower Upper

130 100

95 98.2 0.0 184.6





#49

1,4-Dioxane

Concen: 23.578 ug/l

RT: 6.980 min Scan# 1

Delta R.T. -0.022 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

RE134D2-20230523

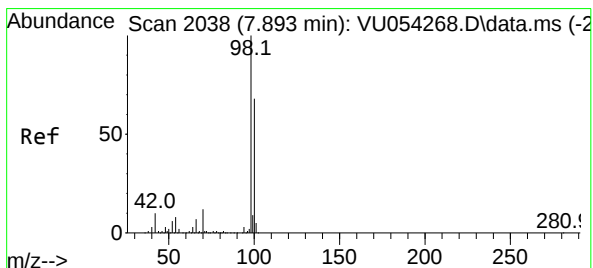
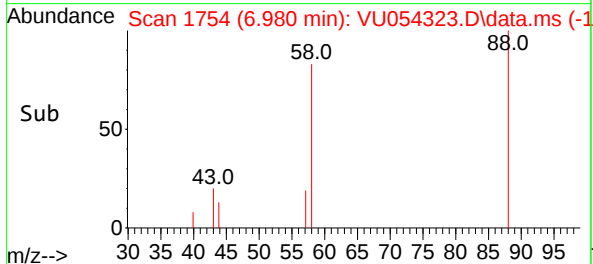
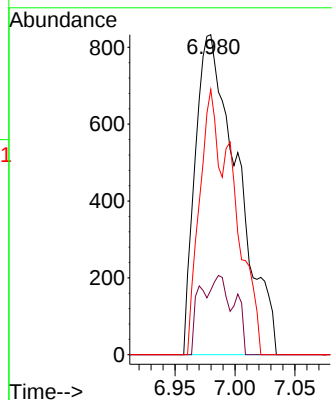
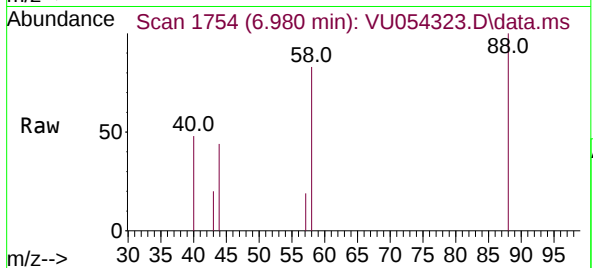
Tgt Ion: 88 Resp: 2047

Ion Ratio Lower Upper

88 100

43 5.0 0.0 0.0#

58 40.0 15.4 23.0#



#50

Toluene-d8

Concen: 51.012 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054323.D

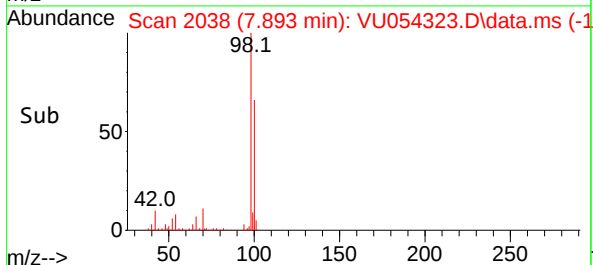
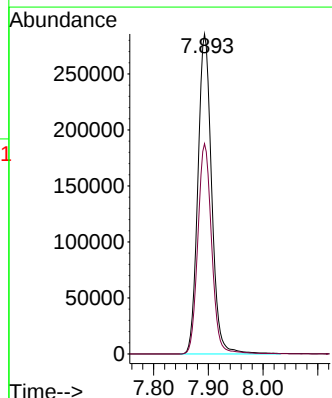
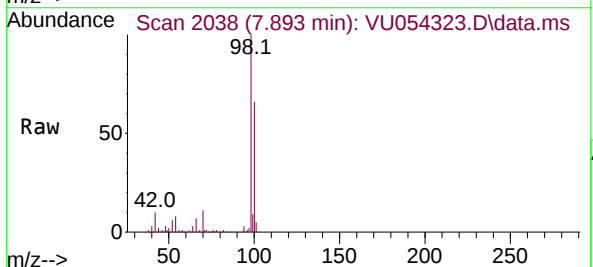
Acq: 30 May 2023 18:55

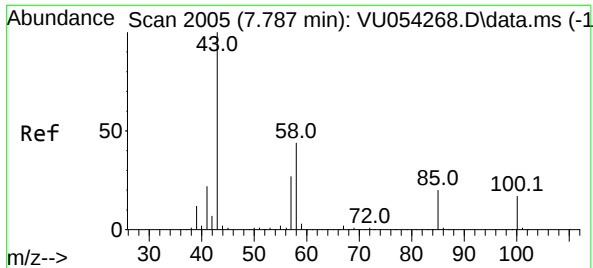
Tgt Ion: 98 Resp: 498336

Ion Ratio Lower Upper

98 100

100 65.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.442 ug/l

RT: 7.890 min Scan# 2005

Delta R.T. 0.103 min

Lab File: VU054323.D

Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

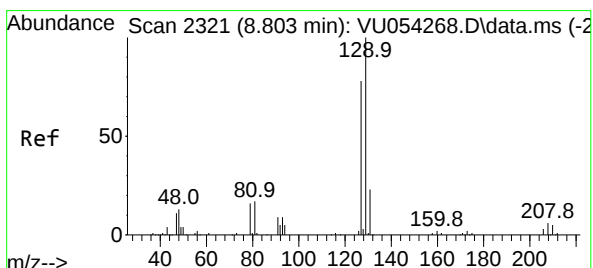
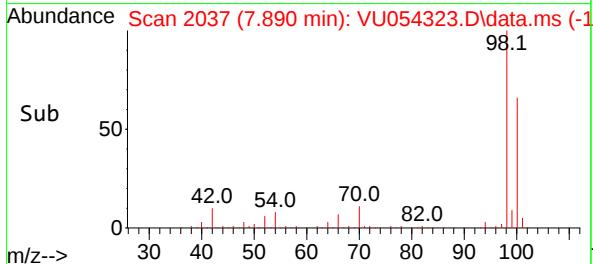
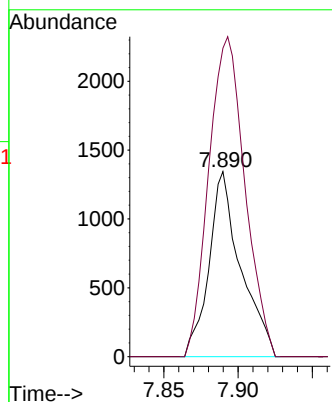
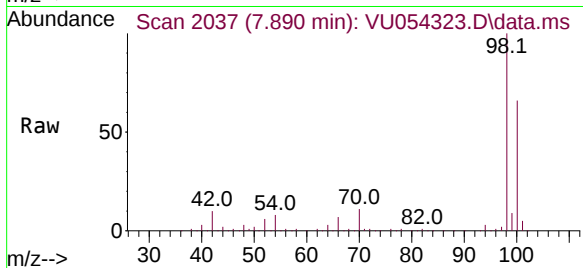
RE134D2-20230523

Tgt Ion: 43 Resp: 1998

Ion Ratio Lower Upper

43 100

58 196.8 34.7 52.1#



#60

Dibromochloromethane

Concen: 15.425 ug/l

RT: 8.549 min Scan# 2242

Delta R.T. -0.254 min

Lab File: VU054323.D

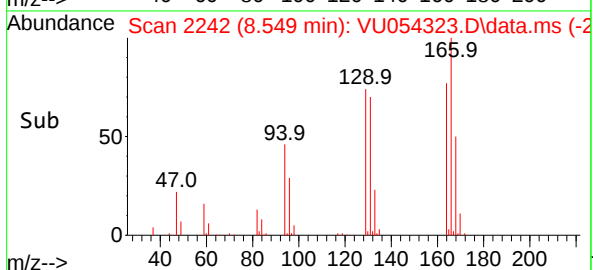
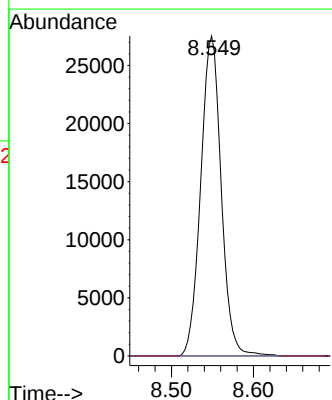
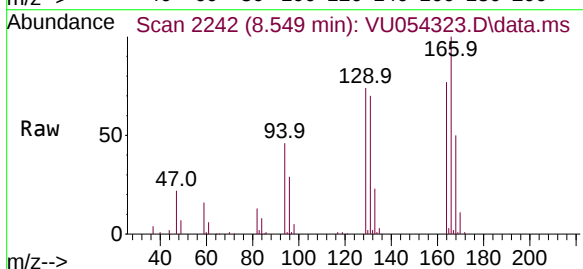
Acq: 30 May 2023 18:55

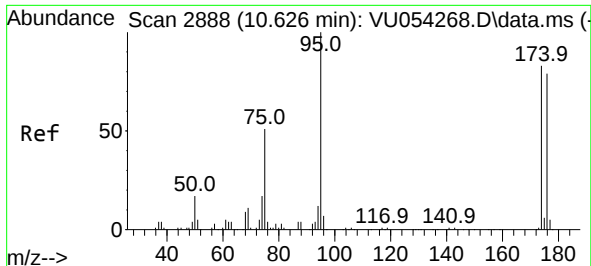
Tgt Ion: 129 Resp: 47649

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#

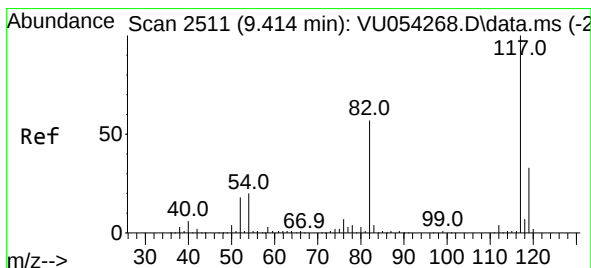
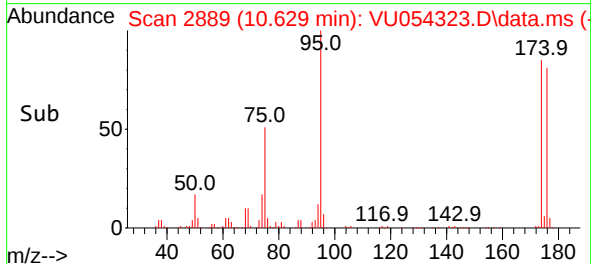
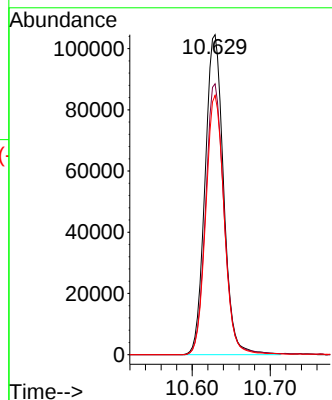
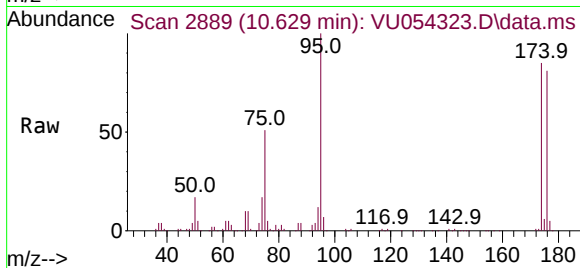




#62
4-Bromofluorobenzene
Concen: 45.533 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

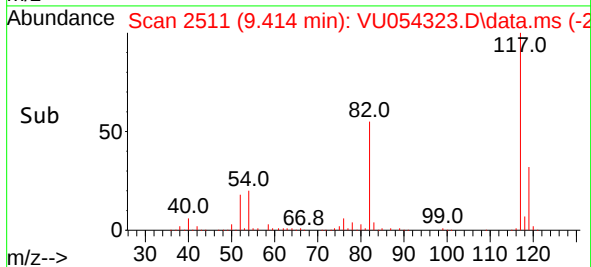
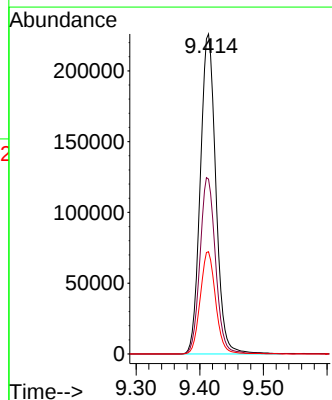
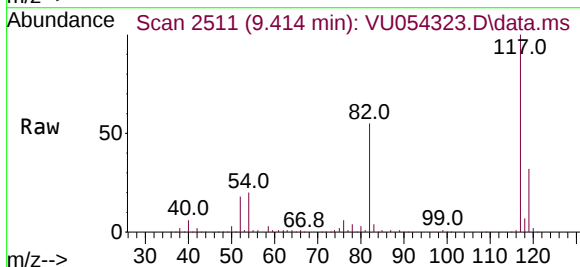
Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

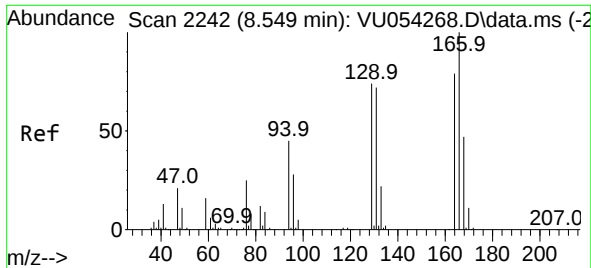
Tgt Ion: 95 Resp: 172471
Ion Ratio Lower Upper
95 100
174 84.5 0.0 182.0
176 80.5 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

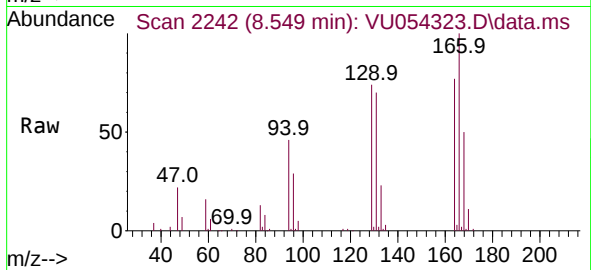
Tgt Ion: 117 Resp: 383489
Ion Ratio Lower Upper
117 100
82 54.6 41.7 62.5
119 31.9 25.7 38.5



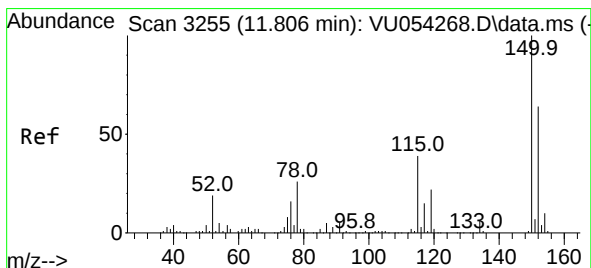
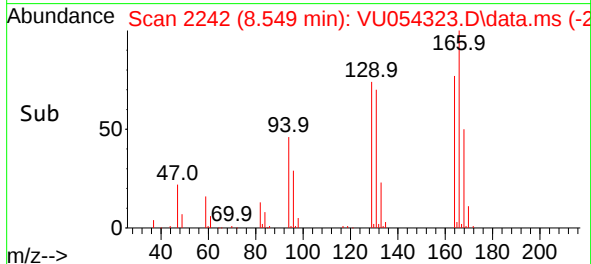
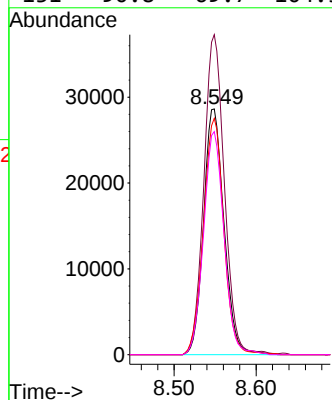


#64
Tetrachloroethene
Concen: 17.196 ug/l
RT: 8.549 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

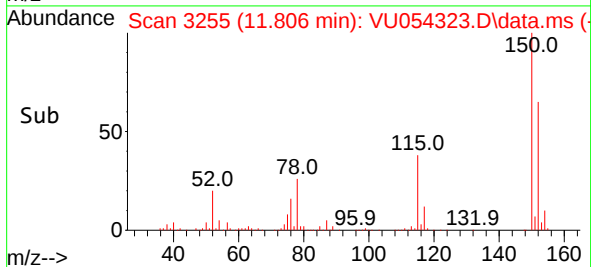
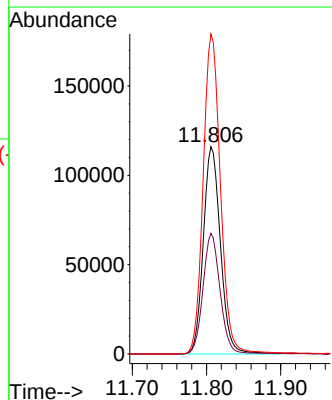
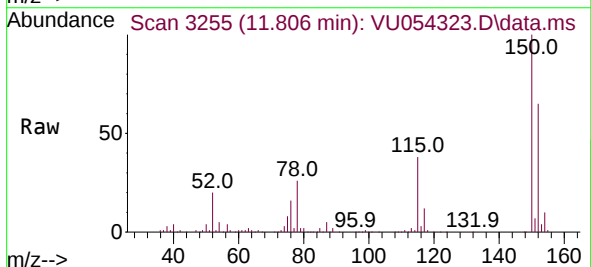


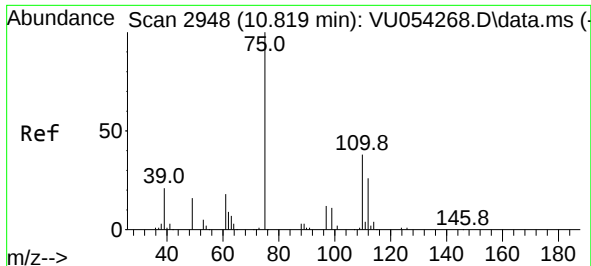
Tgt Ion:164 Resp: 49632
Ion Ratio Lower Upper
164 100
166 130.2 100.0 150.0
129 96.2 72.0 108.0
131 90.8 69.7 104.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

Tgt Ion:152 Resp: 185665
Ion Ratio Lower Upper
152 100
115 58.2 37.0 110.9
150 156.1 0.0 342.2

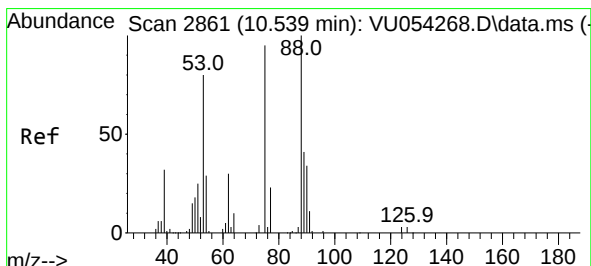
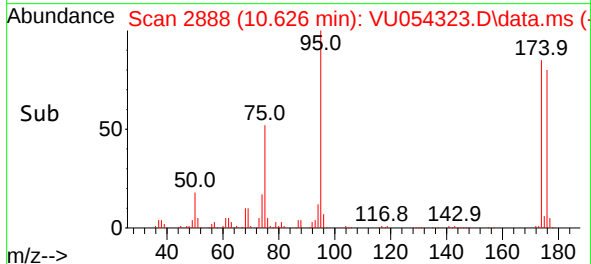
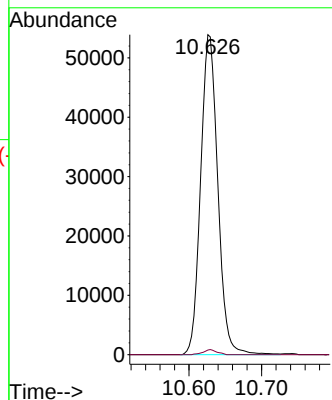
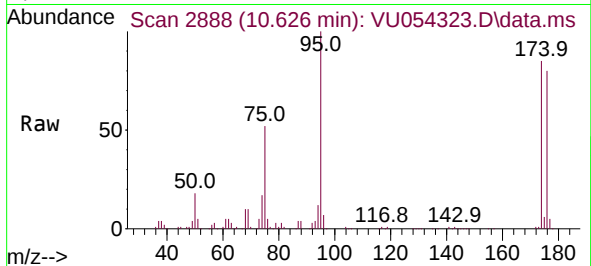




#76
1,2,3-Trichloropropane
Concen: 16.356 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

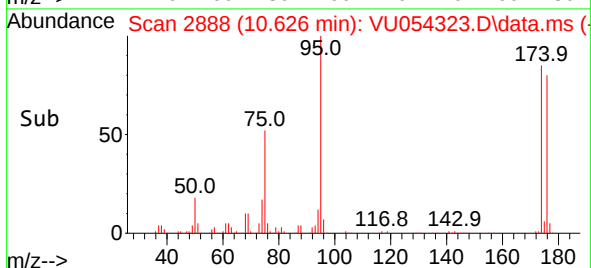
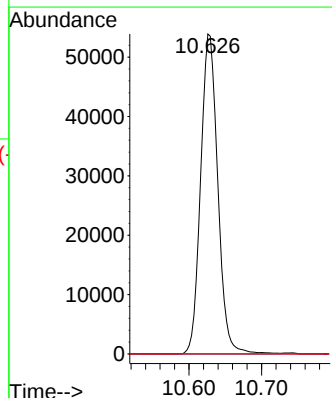
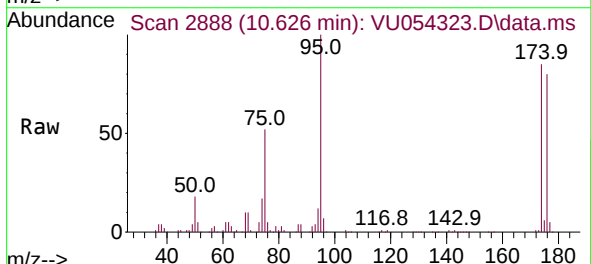
Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523

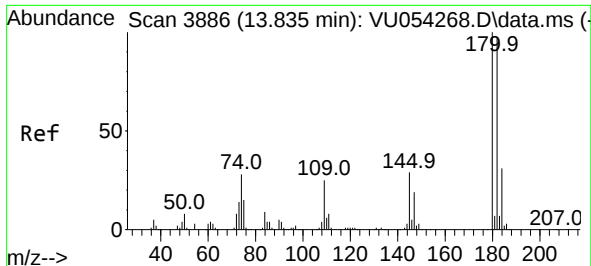
Tgt Ion: 75 Resp: 88632
Ion Ratio Lower Upper
75 100
77 1.3 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.284 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

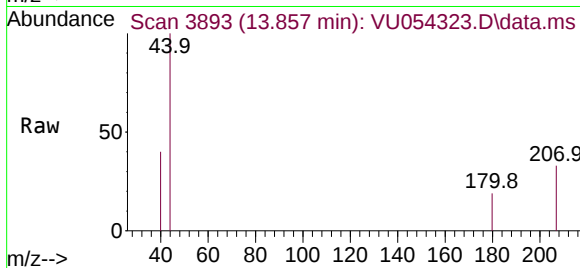
Tgt Ion: 75 Resp: 88632
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



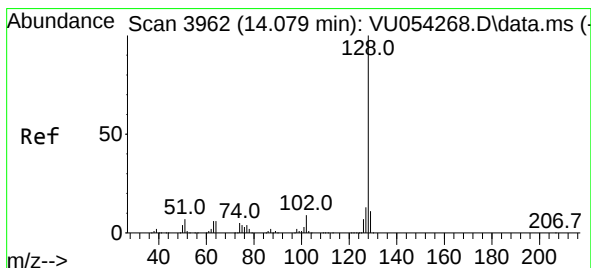
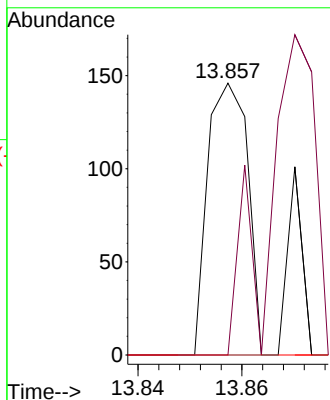
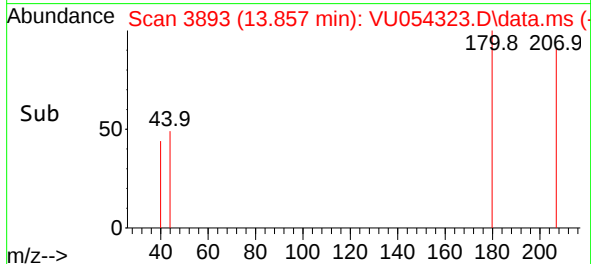


#93
1,2,4-Trichlorobenzene
Concen: 1.661 ug/l
RT: 13.857 min Scan# 3886
Delta R.T. 0.022 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55

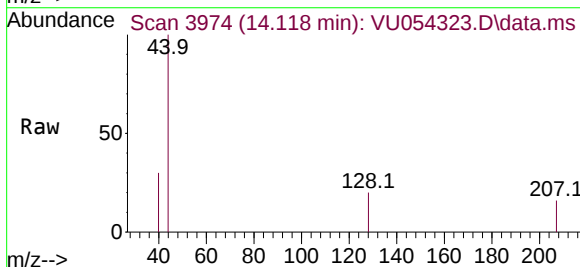
Instrument :
MSVOA_U
ClientSampleId :
RE134D2-20230523



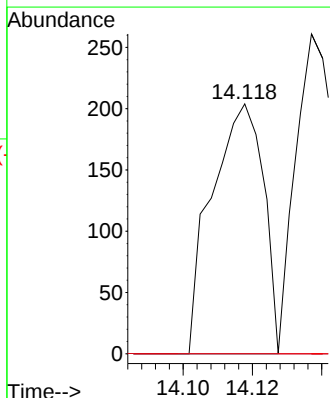
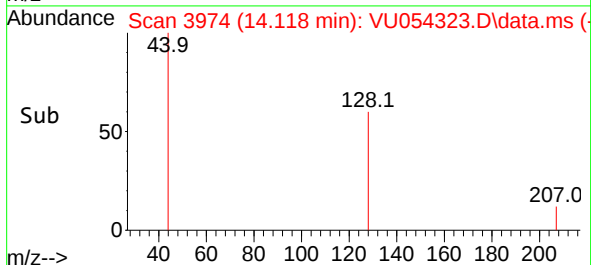
Tgt Ion:180 Resp: 78
Ion Ratio Lower Upper
180 100
182 0.0 47.9 143.6#
145 0.0 14.0 41.9#

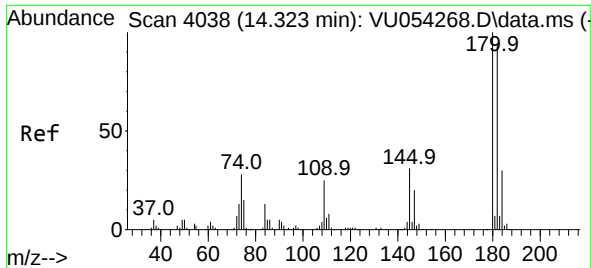


#95
Naphthalene
Concen: 2.006 ug/l
RT: 14.118 min Scan# 3974
Delta R.T. 0.039 min
Lab File: VU054323.D
Acq: 30 May 2023 18:55



Tgt Ion:128 Resp: 211
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.265 ug/l

RT: 14.352 min Scan# 40

Delta R.T. 0.029 min

Lab File: VU054323.D

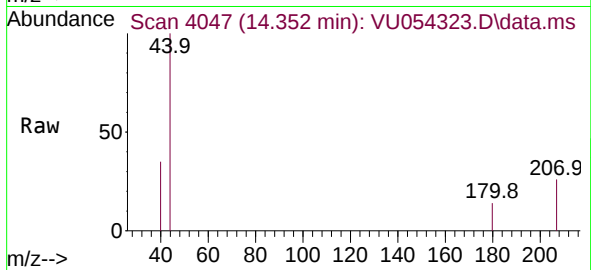
Acq: 30 May 2023 18:55

Instrument :

MSVOA_U

ClientSampleId :

RE134D2-20230523



Tgt Ion:180 Resp: 44

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.0#

145 0.0 14.8 44.4#

