

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054283.D
 Acq On : 26 May 2023 14:15
 Operator : JC/MD
 Sample : 02936-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 48BR-20230524

Quant Time: May 30 00:01:31 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)

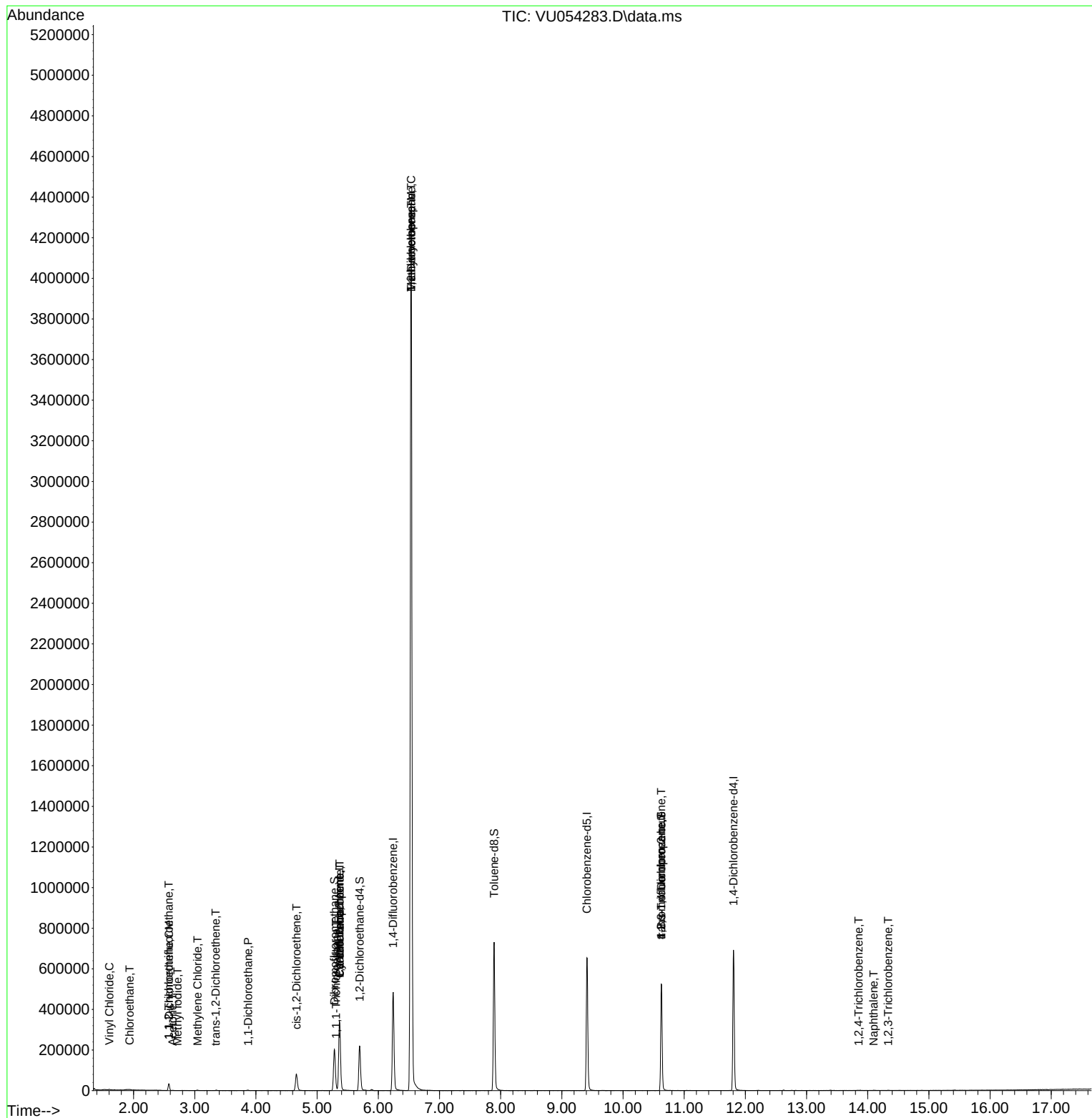
Internal Standards						
1) Pentafluorobenzene	5.366	168	250052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	402703	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	379485	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	191614	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	165052	50.353	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 100.700%		
35) Dibromofluoromethane	5.282	113	133247	51.381	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.760%		
50) Toluene-d8	7.893	98	489004	49.574	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 99.140%		
62) 4-Bromofluorobenzene	10.626	95	176995	46.276	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 92.560%		
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.604	62	1842	0.528	ug/l #	88
6) Chloroethane	1.938	64	459	0.273	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	2.575	101	3840	1.478	ug/l	99
10) Methyl Iodide	2.716	142	19	2.337	ug/l #	43
12) 1,1-Dichloroethene	2.578	96	8386	3.118	ug/l	97
16) Acetone	2.639	43	1025	0.546	ug/l #	86
20) Methylene Chloride	3.044	84	1096	0.323	ug/l #	87
21) trans-1,2-Dichloroethene	3.343	96	969	0.337	ug/l #	74
24) 1,1-Dichloroethane	3.870	63	3027	0.572	ug/l #	82
27) cis-1,2-Dichloroethene	4.661	96	43805	13.675	ug/l	94
31) Cyclohexane	5.369	56	4824	1.042	ug/l #	1
32) 1,1,1-Trichloroethane	5.311	97	1051	0.225	ug/l #	41
36) 1,1-Dichloropropene	5.369	75	18816	4.619	ug/l #	48
38) Carbon Tetrachloride	5.369	117	24329	5.836	ug/l #	15
39) Methylcyclohexane	6.536	83	18946	4.107	ug/l #	1
44) Trichloroethene	6.536	130	1503143	462.820	ug/l	93
45) 1,2-Dichloropropane	6.536	63	4780	1.577	ug/l #	1
76) 1,2,3-Trichloropropane	10.626	75	88628	15.848	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	88628	60.348	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.851	180	378	1.726	ug/l #	82
95) Naphthalene	14.095	128	1533	2.095	ug/l #	87
96) 1,2,3-Trichlorobenzene	14.333	180	547	1.377	ug/l	96

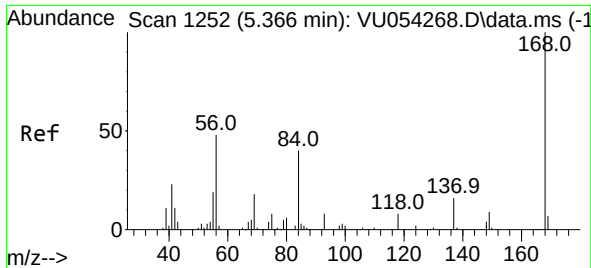
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

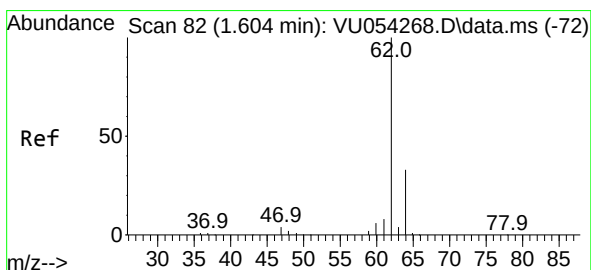
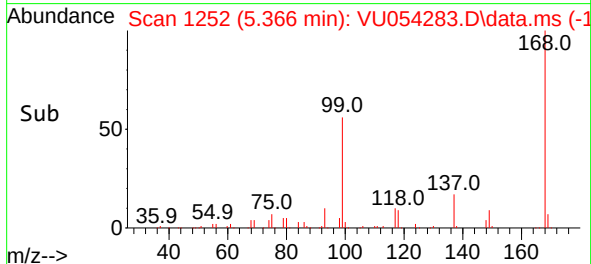
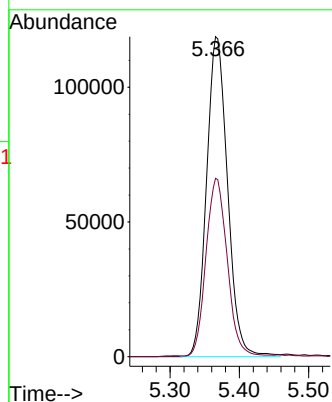
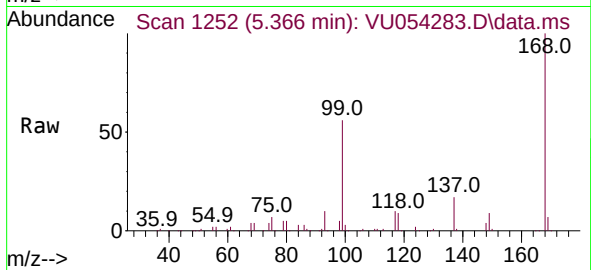




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

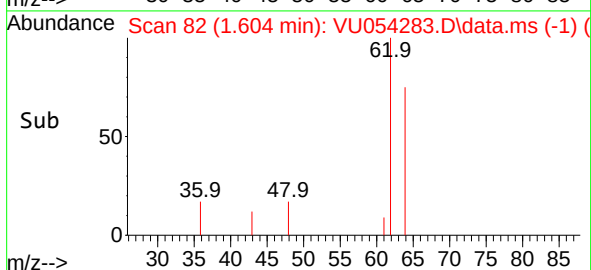
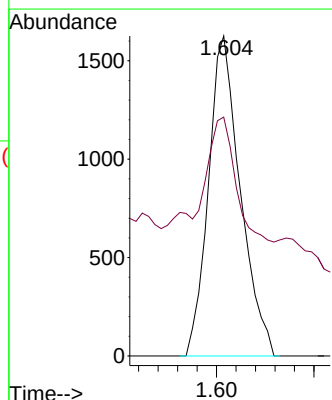
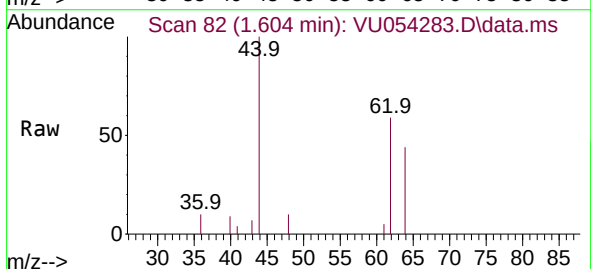
Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

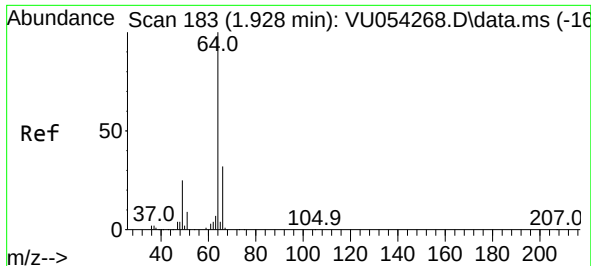
Tgt Ion:168 Resp: 250052
Ion Ratio Lower Upper
168 100
99 55.5 39.3 58.9



#4
Vinyl Chloride
Concen: 0.528 ug/l
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion: 62 Resp: 1842
Ion Ratio Lower Upper
62 100
64 38.4 25.3 37.9#

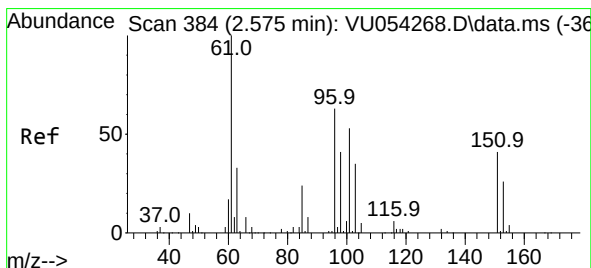
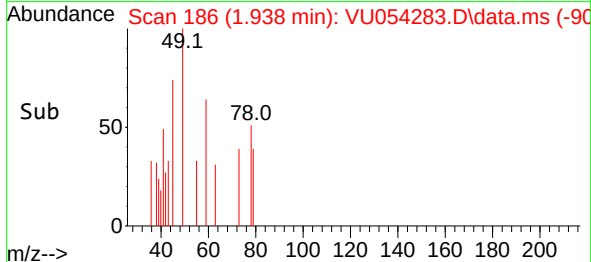
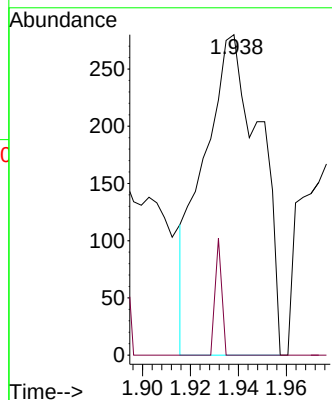
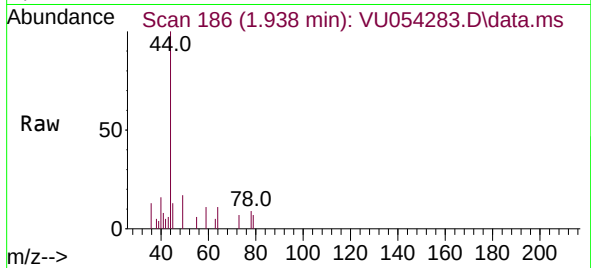




#6
Chloroethane
Concen: 0.273 ug/l
RT: 1.938 min Scan# 183
Delta R.T. 0.010 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

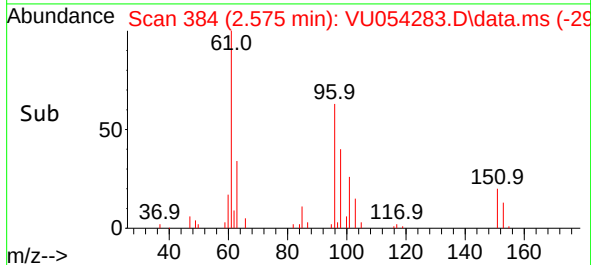
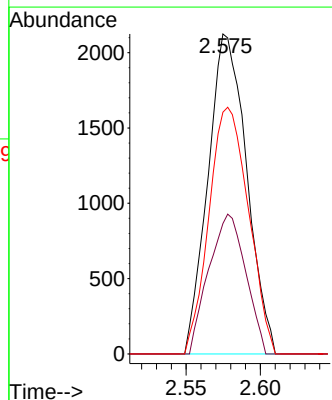
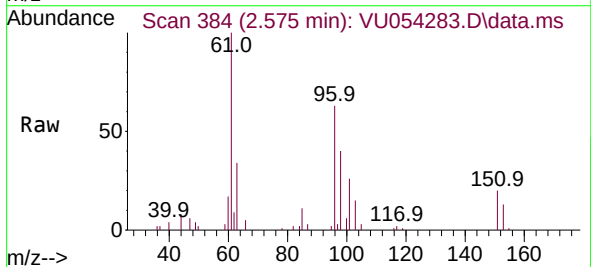
Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

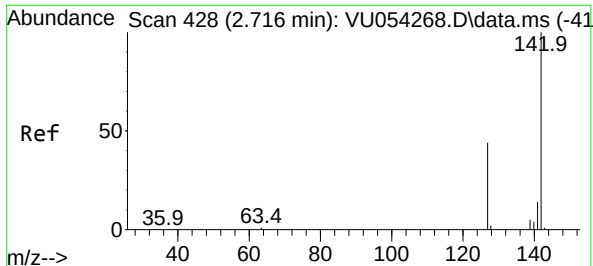
Tgt Ion: 64 Resp: 459
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.478 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

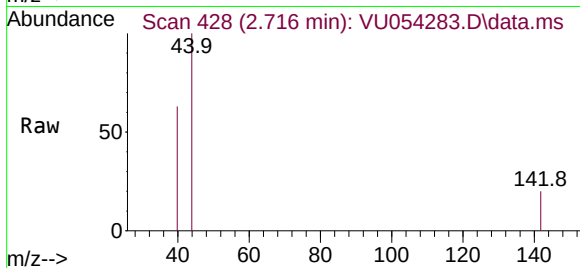
Tgt Ion: 101 Resp: 3840
Ion Ratio Lower Upper
101 100
85 41.7 33.9 50.9
151 78.9 64.0 96.0



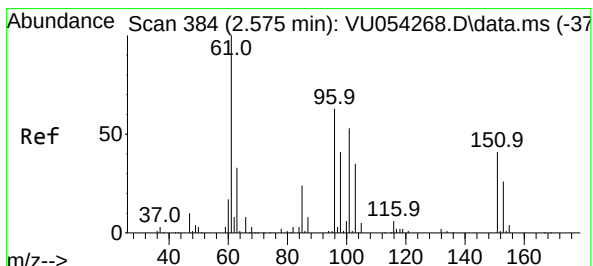
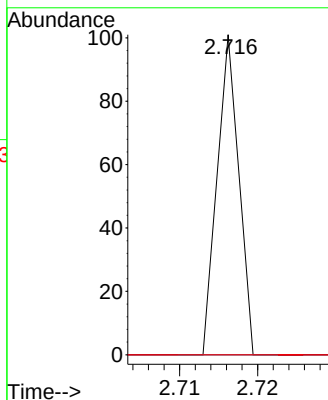
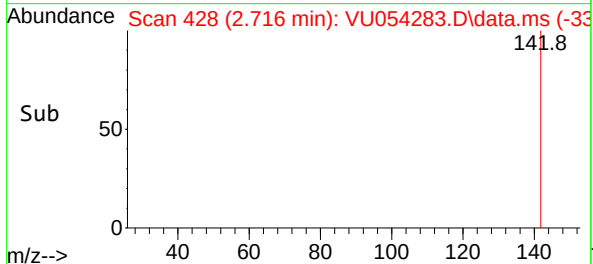


#10
Methyl Iodide
Concen: 2.337 ug/l
RT: 2.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

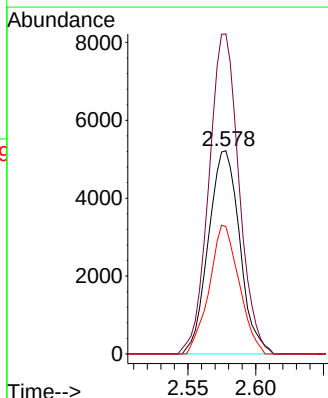
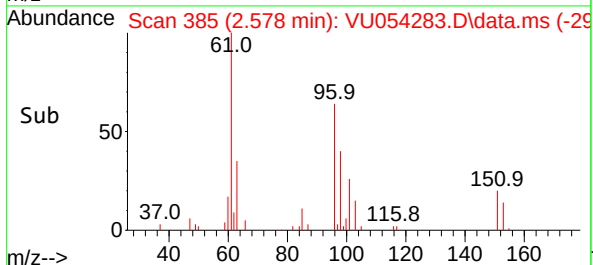
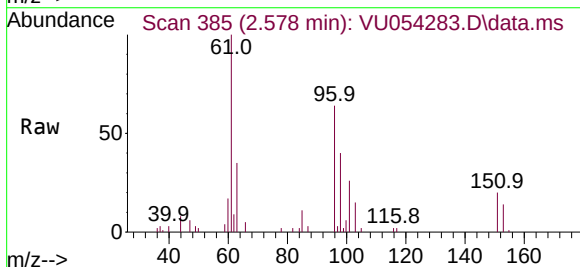


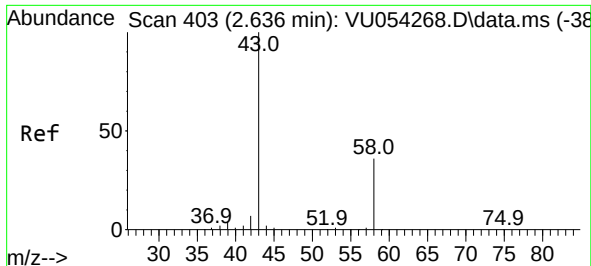
Tgt Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#12
1,1-Dichloroethene
Concen: 3.118 ug/l
RT: 2.578 min Scan# 385
Delta R.T. 0.003 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion: 96 Resp: 8386
Ion Ratio Lower Upper
96 100
61 157.5 122.2 183.2
98 62.7 50.7 76.1





#16

Acetone

Concen: 0.546 ug/l

RT: 2.639 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

Instrument :

MSVOA_U

ClientSampleId :

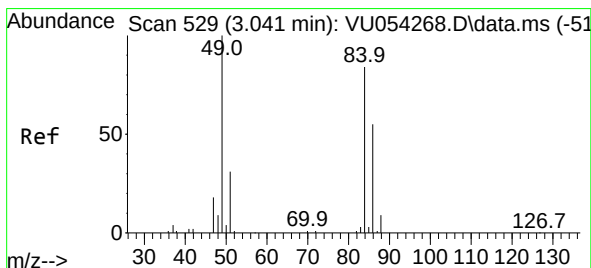
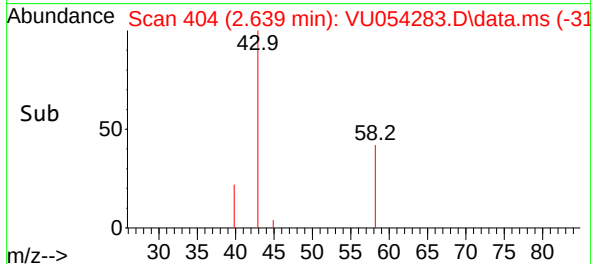
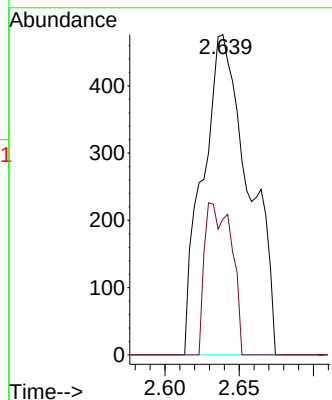
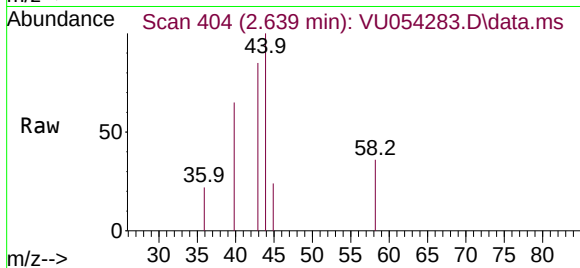
48BR-20230524

Tgt Ion: 43 Resp: 1025

Ion Ratio Lower Upper

43 100

58 42.4 27.5 41.3#



#20

Methylene Chloride

Concen: 0.323 ug/l

RT: 3.044 min Scan# 530

Delta R.T. 0.003 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

Tgt Ion: 84 Resp: 1096

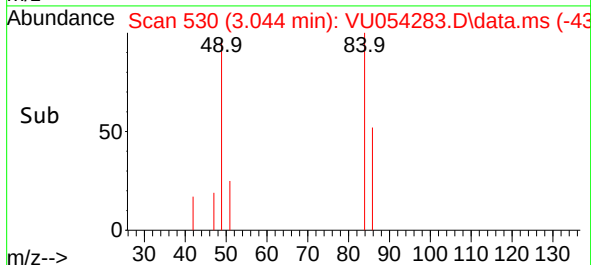
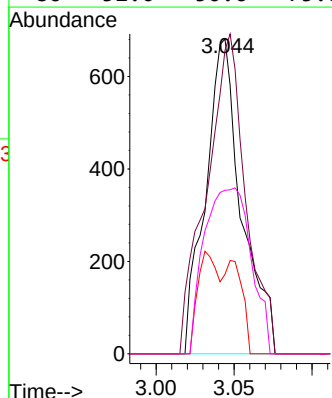
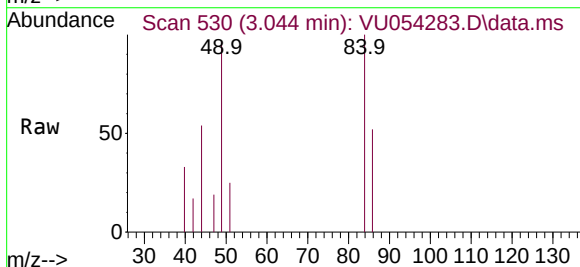
Ion Ratio Lower Upper

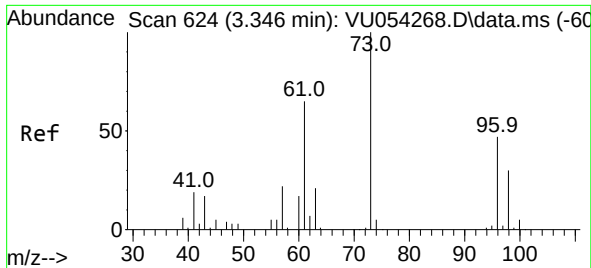
84 100

49 96.5 86.6 129.8

51 25.3 26.6 40.0#

86 52.0 50.6 75.8

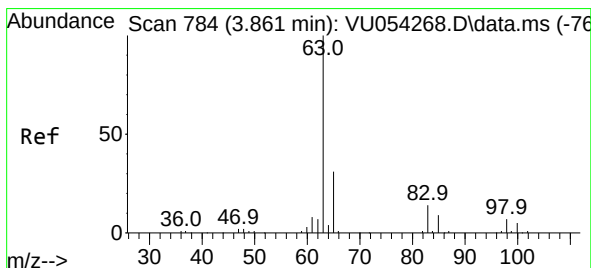
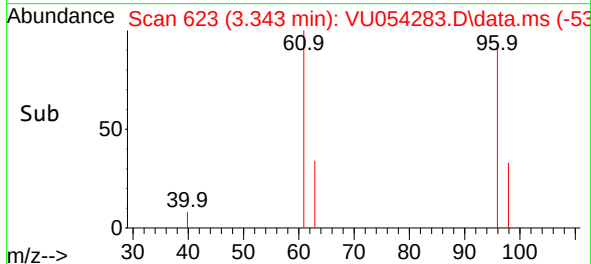
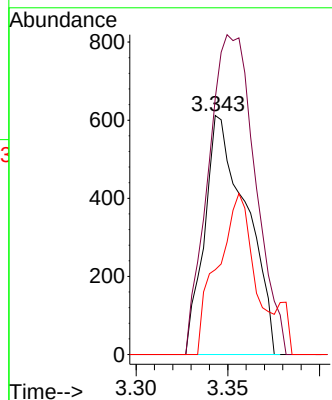
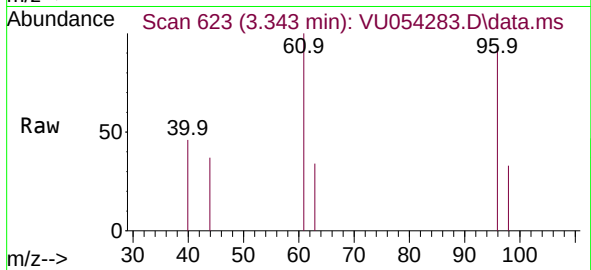




#21
trans-1,2-Dichloroethene
Concen: 0.337 ug/l
RT: 3.343 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

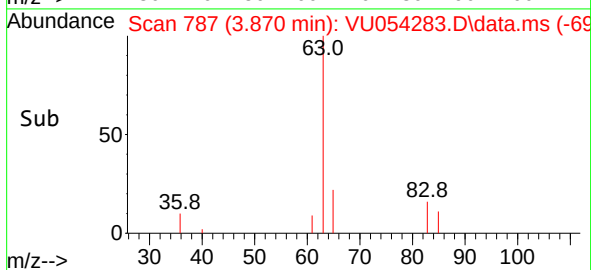
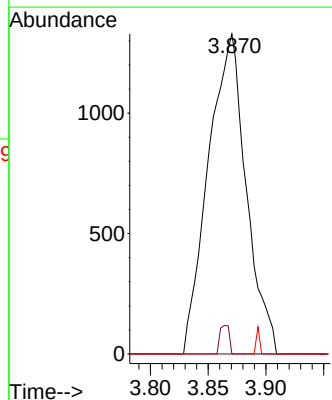
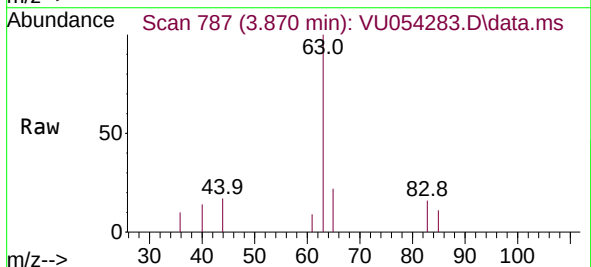
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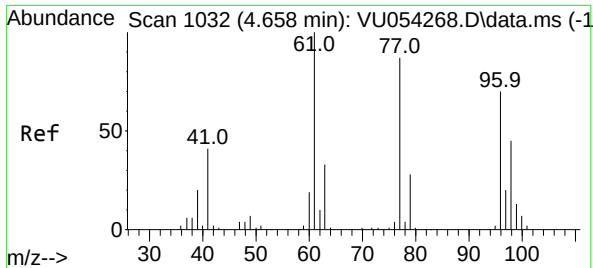
Tgt Ion: 96 Resp: 969
Ion Ratio Lower Upper
96 100
61 107.2 106.1 159.1
98 35.5 50.8 76.2#



#24
1,1-Dichloroethane
Concen: 0.572 ug/l
RT: 3.870 min Scan# 787
Delta R.T. 0.009 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion: 63 Resp: 3027
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.9#
100 0.0 2.4 7.2#

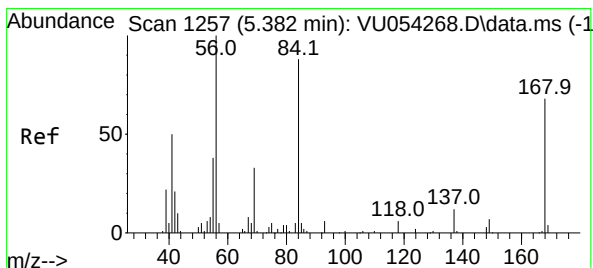
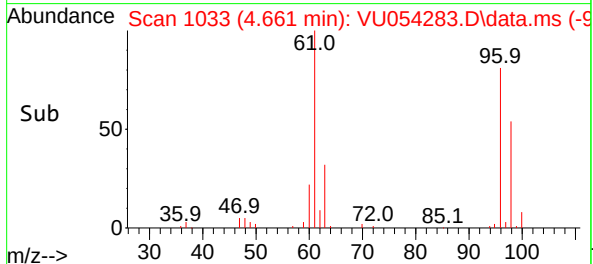
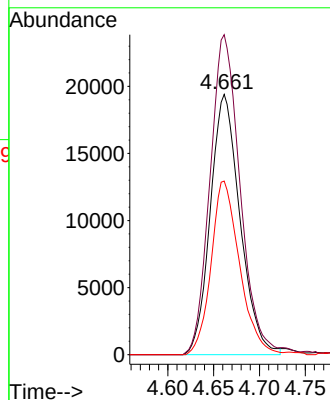
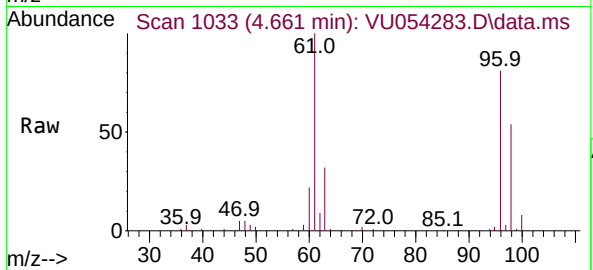




#27
 cis-1,2-Dichloroethene
 Concen: 13.675 ug/l
 RT: 4.661 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: VU054283.D
 Acq: 26 May 2023 14:15

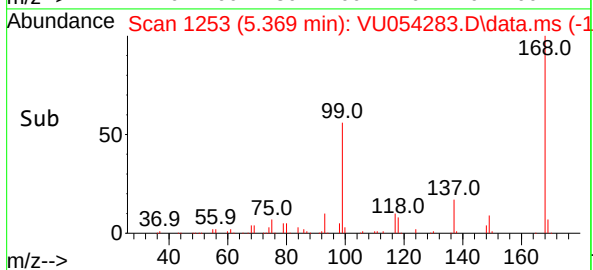
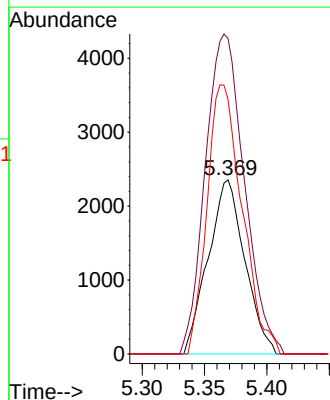
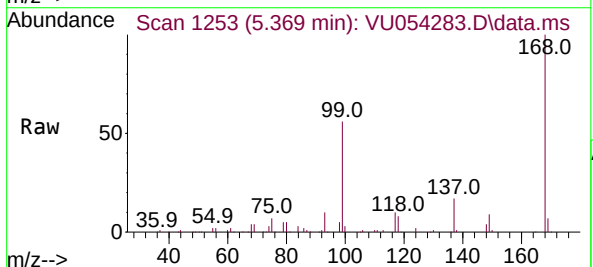
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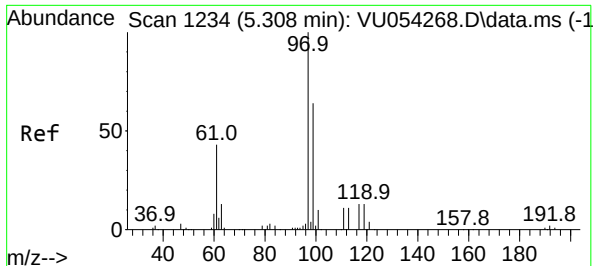
Tgt Ion: 96 Resp: 43805
 Ion Ratio Lower Upper
 96 100
 61 124.9 0.0 271.6
 98 63.9 0.0 128.2



#31
 Cyclohexane
 Concen: 1.042 ug/l
 RT: 5.369 min Scan# 1253
 Delta R.T. -0.013 min
 Lab File: VU054283.D
 Acq: 26 May 2023 14:15

Tgt Ion: 56 Resp: 4824
 Ion Ratio Lower Upper
 56 100
 69 181.2 27.8 41.8#
 84 146.2 74.2 111.4#





#32

1,1,1-Trichloroethane

Concen: 0.225 ug/l

RT: 5.311 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

Instrument :

MSVOA_U

ClientSampleId :

48BR-20230524

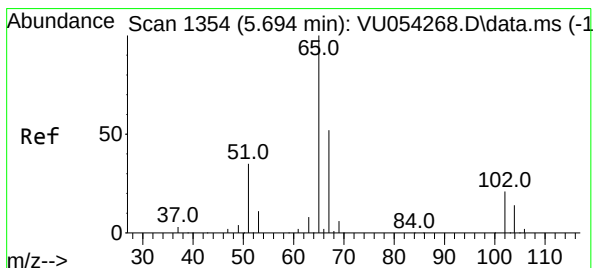
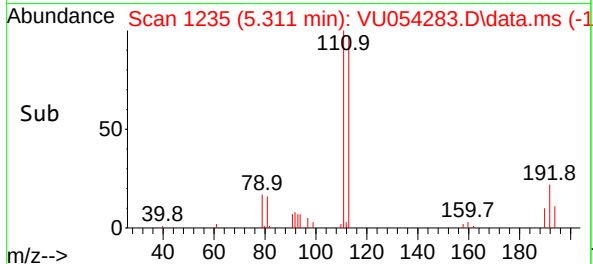
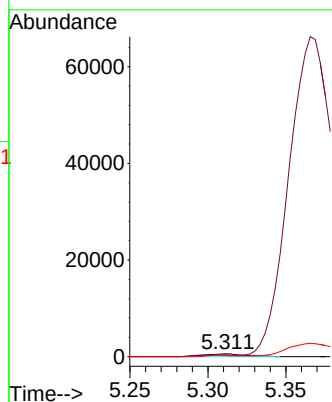
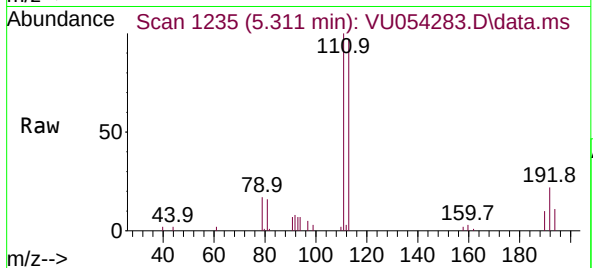
Tgt Ion: 97 Resp: 1051

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

61 28.5 35.1 52.7#



#33

1,2-Dichloroethane-d4

Concen: 50.353 ug/l

RT: 5.697 min Scan# 1355

Delta R.T. 0.003 min

Lab File: VU054283.D

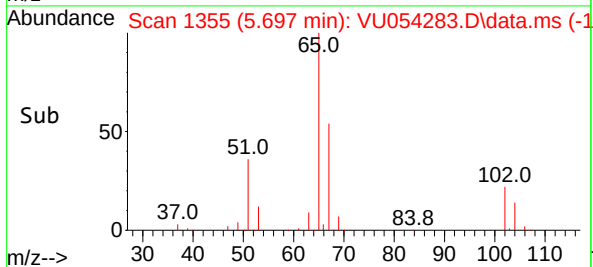
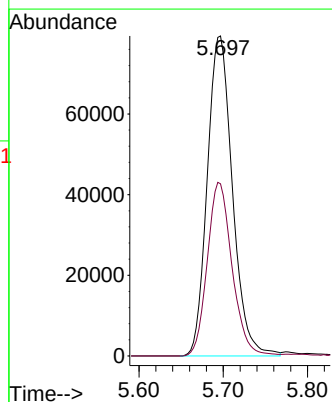
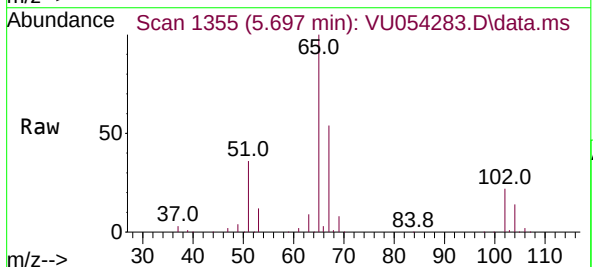
Acq: 26 May 2023 14:15

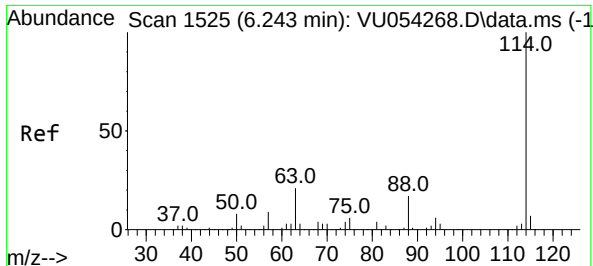
Tgt Ion: 65 Resp: 165052

Ion Ratio Lower Upper

65 100

67 53.3 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: VU054283.D

Acq: 26 May 2023 14:15

Instrument :

MSVOA_U

ClientSampleId :

48BR-20230524

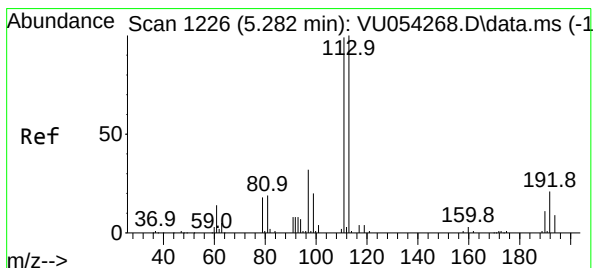
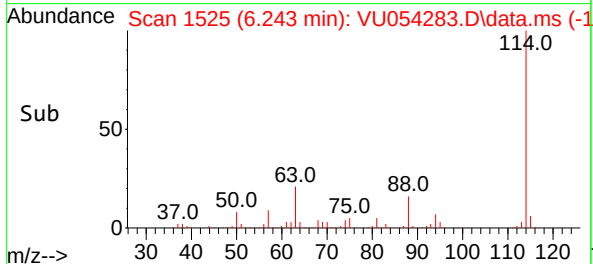
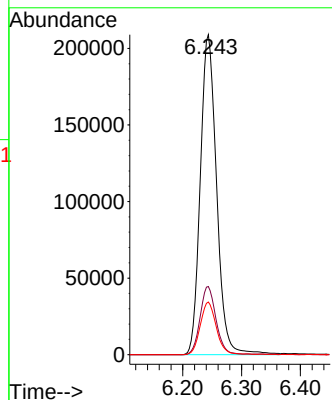
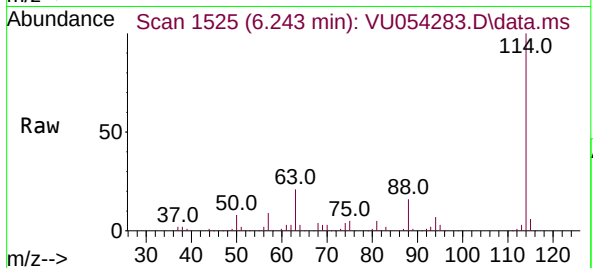
Tgt Ion:114 Resp: 402703

Ion Ratio Lower Upper

114 100

63 21.3 0.0 37.8

88 16.4 0.0 29.2



#35

Dibromofluoromethane

Concen: 51.381 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

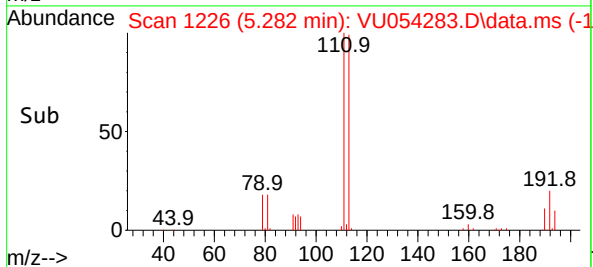
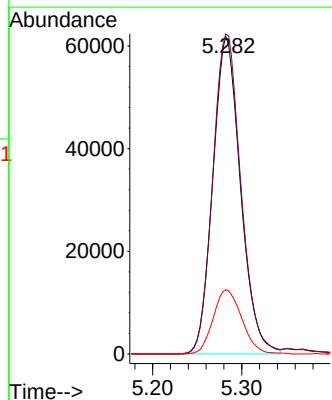
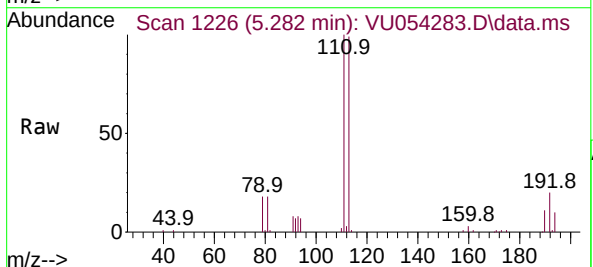
Tgt Ion:113 Resp: 133247

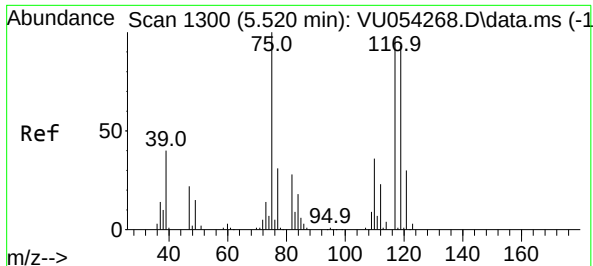
Ion Ratio Lower Upper

113 100

111 102.4 82.1 123.1

192 21.0 18.0 27.0

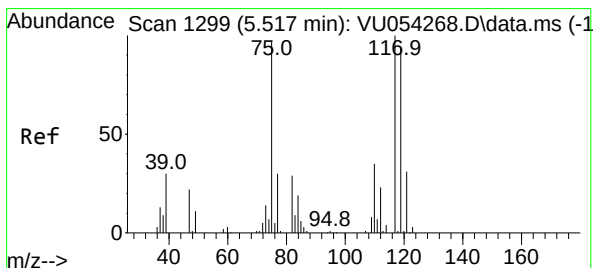
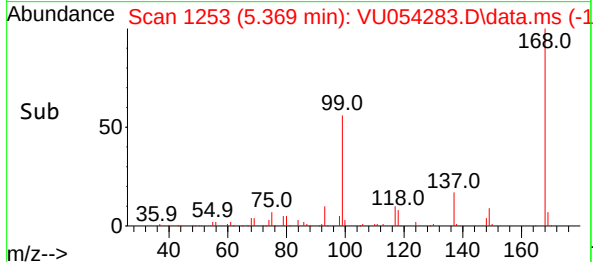
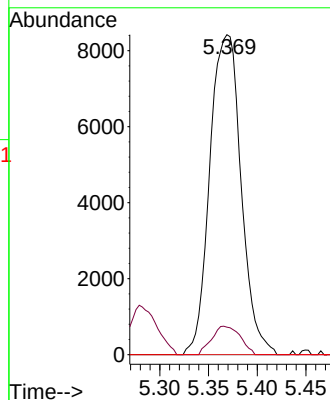
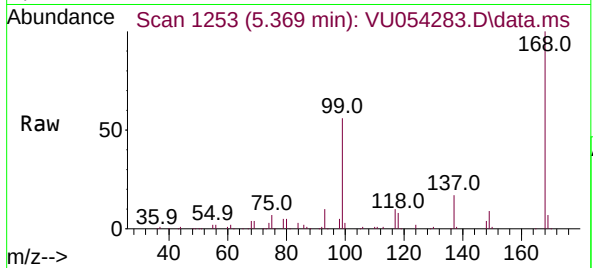




#36
1,1-Dichloropropene
Concen: 4.619 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.151 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

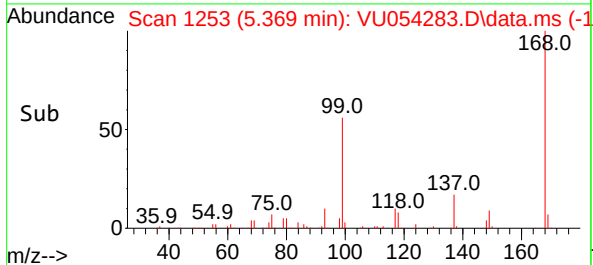
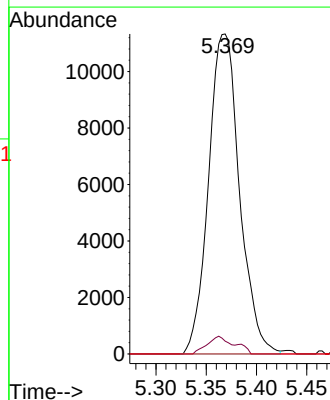
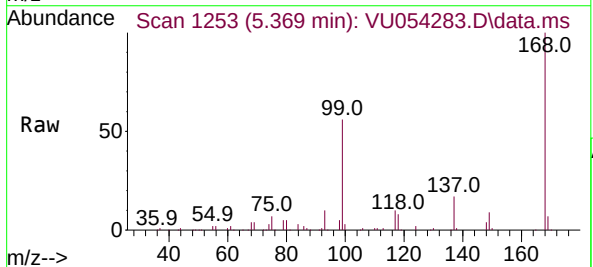
Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

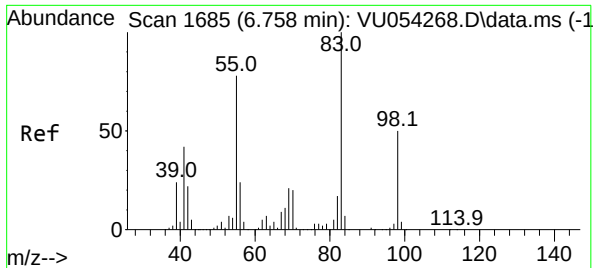
Tgt Ion: 75 Resp: 18816
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 5.836 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.148 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion: 117 Resp: 24329
Ion Ratio Lower Upper
117 100
119 4.0 76.8 115.2#
121 0.0 24.7 37.1#

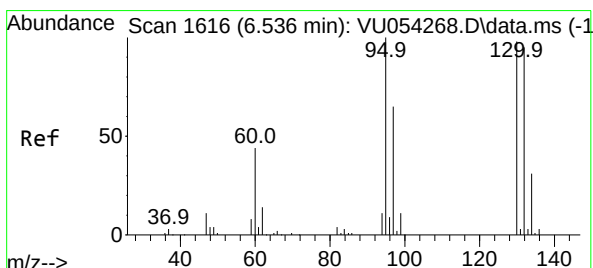
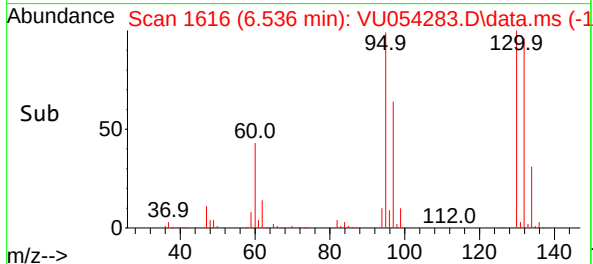
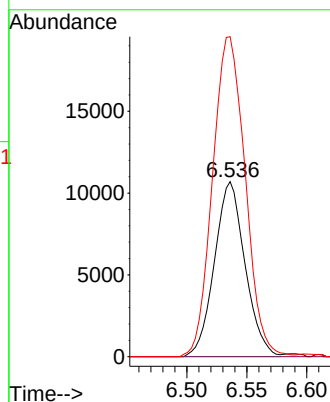
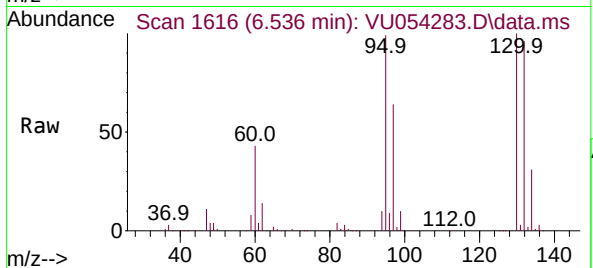




#39
Methylcyclohexane
Concen: 4.107 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.222 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

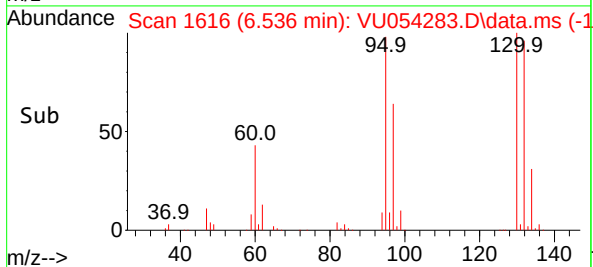
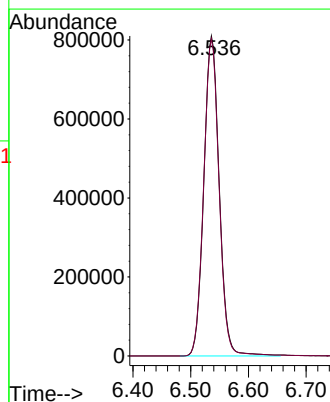
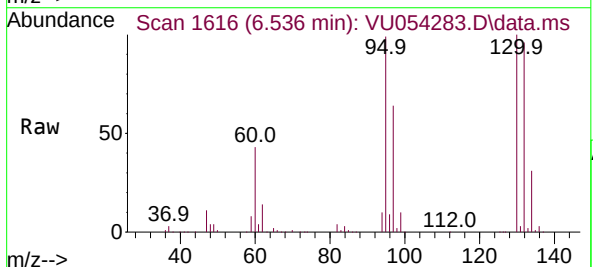
Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

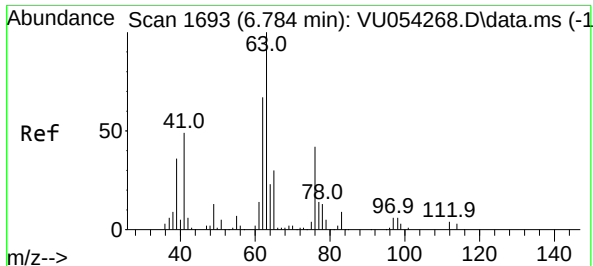
Tgt Ion: 83 Resp: 18946
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 182.8 37.3 55.9#



#44
Trichloroethene
Concen: 462.820 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion:130 Resp: 1503143
Ion Ratio Lower Upper
130 100
95 99.1 0.0 184.6





#45

1,2-Dichloropropane

Concen: 1.577 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.248 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

Instrument :

MSVOA_U

ClientSampleId :

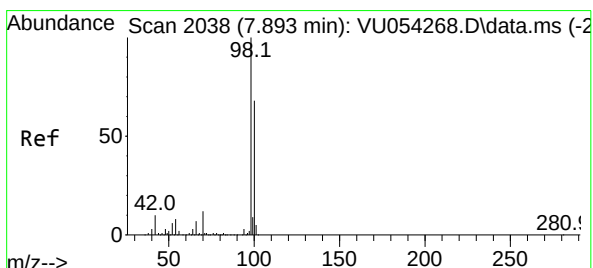
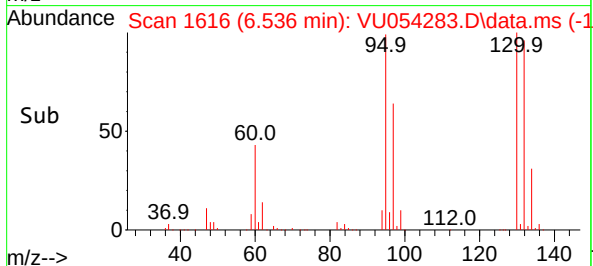
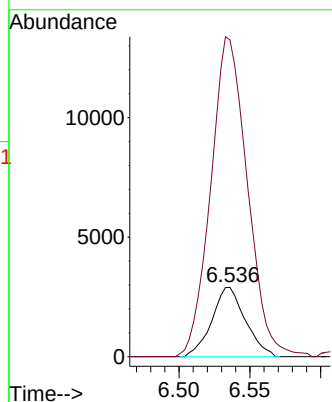
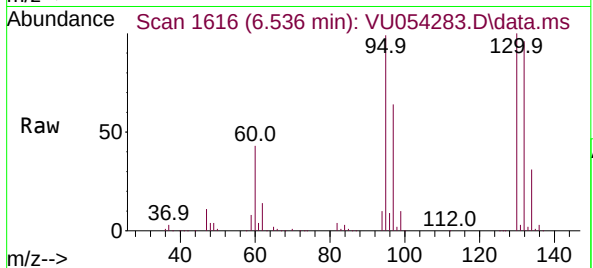
48BR-20230524

Tgt Ion: 63 Resp: 4780

Ion Ratio Lower Upper

63 100

65 453.0 25.0 37.4#



#50

Toluene-d8

Concen: 49.574 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054283.D

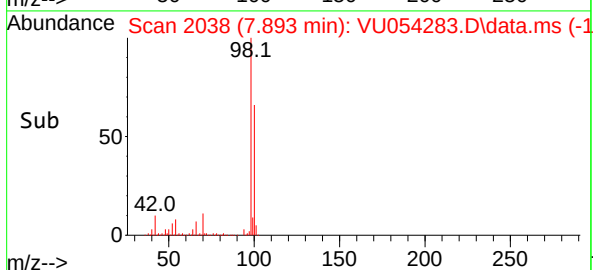
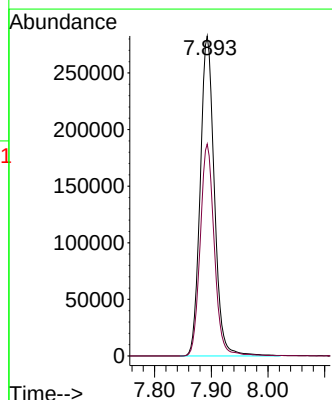
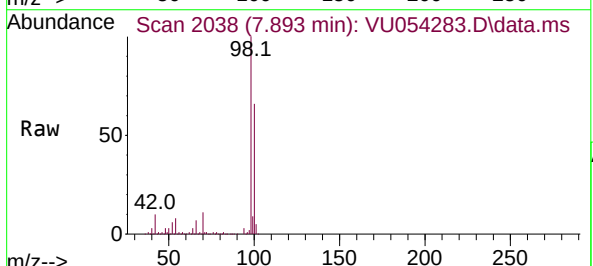
Acq: 26 May 2023 14:15

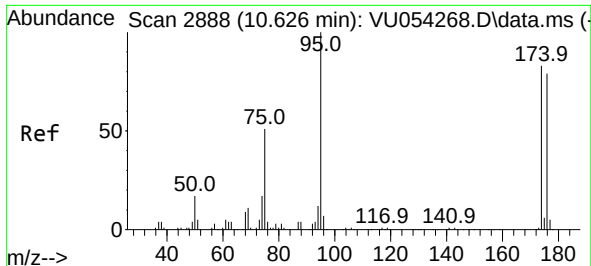
Tgt Ion: 98 Resp: 489004

Ion Ratio Lower Upper

98 100

100 66.3 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 46.276 ug/l

RT: 10.626 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054283.D

Acq: 26 May 2023 14:15

Instrument :

MSVOA_U

ClientSampleId :

48BR-20230524

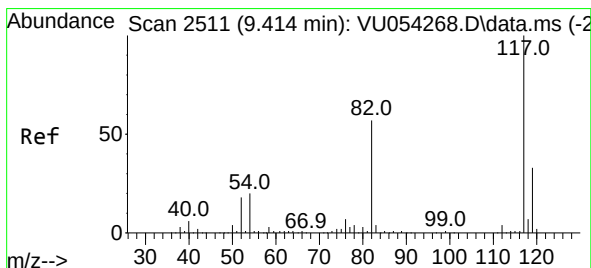
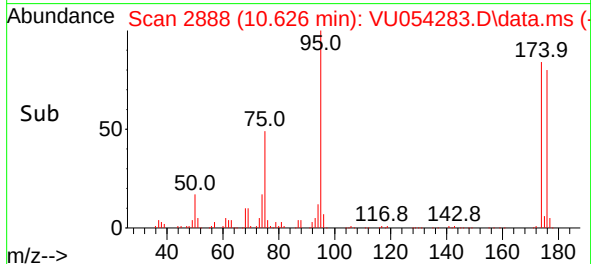
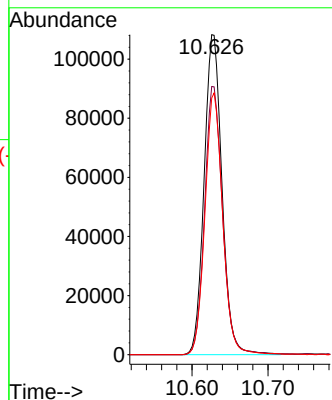
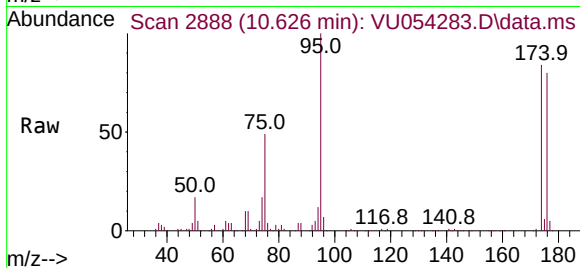
Tgt Ion: 95 Resp: 176995

Ion Ratio Lower Upper

95 100

174 83.9 0.0 182.0

176 81.1 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: VU054283.D

Acq: 26 May 2023 14:15

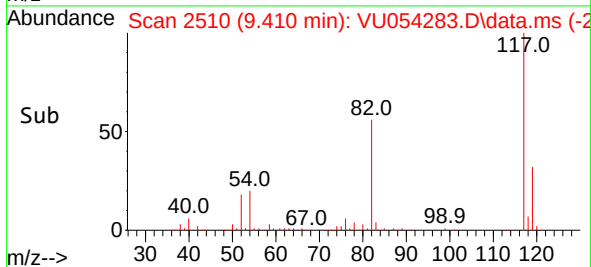
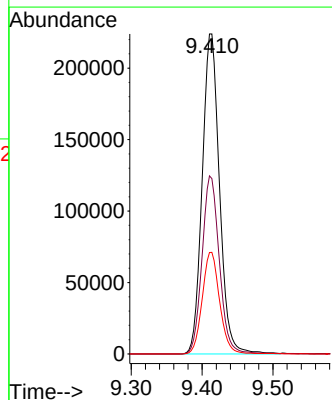
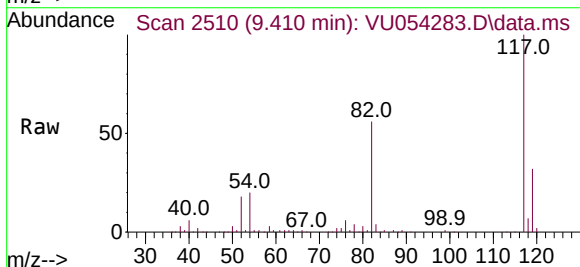
Tgt Ion: 117 Resp: 379485

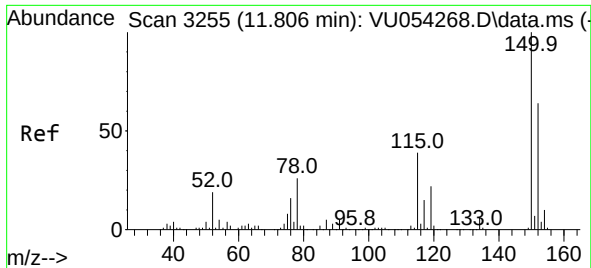
Ion Ratio Lower Upper

117 100

82 55.6 41.7 62.5

119 31.7 25.7 38.5

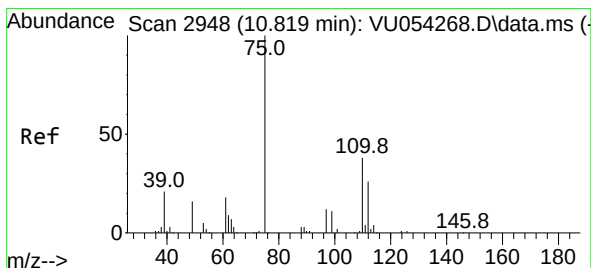
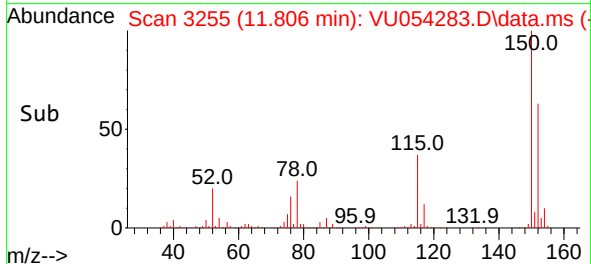
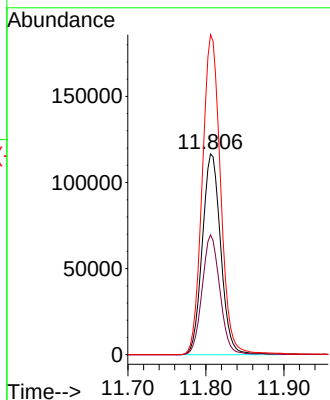
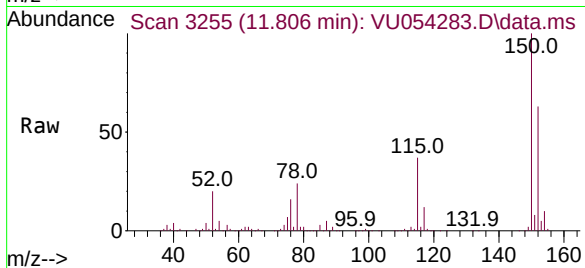




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

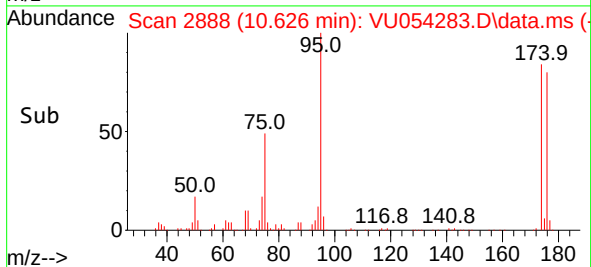
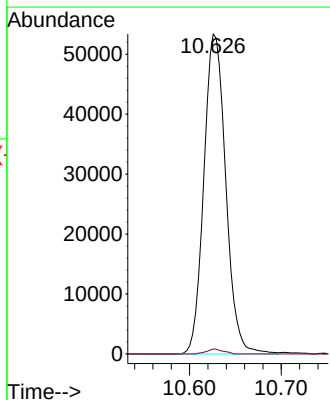
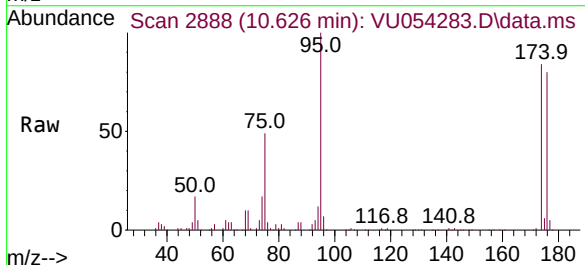
Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

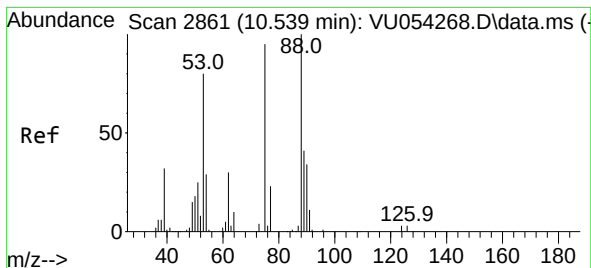
Tgt Ion:152 Resp: 191614
Ion Ratio Lower Upper
152 100
115 57.5 37.0 110.9
150 158.5 0.0 342.2



#76
1,2,3-Trichloropropane
Concen: 15.848 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.193 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion: 75 Resp: 88628
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#

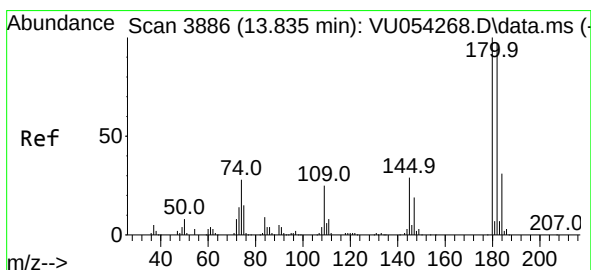
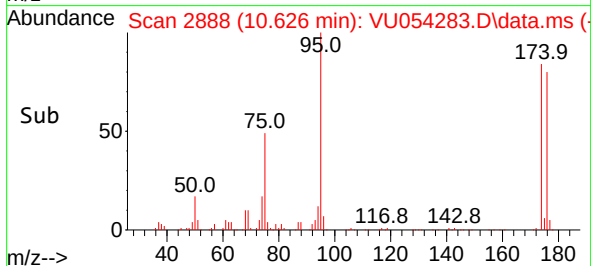
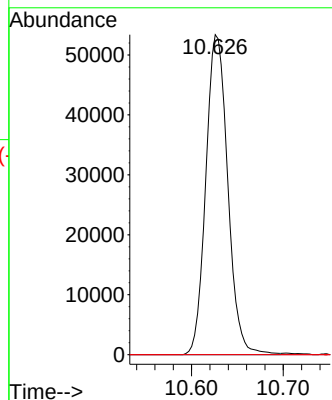
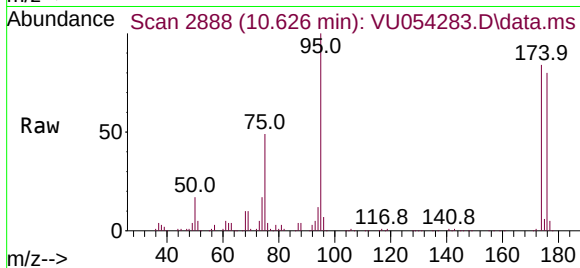




#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.348 ug/l
 RT: 10.626 min Scan# 21
 Delta R.T. 0.087 min
 Lab File: VU054283.D
 Acq: 26 May 2023 14:15

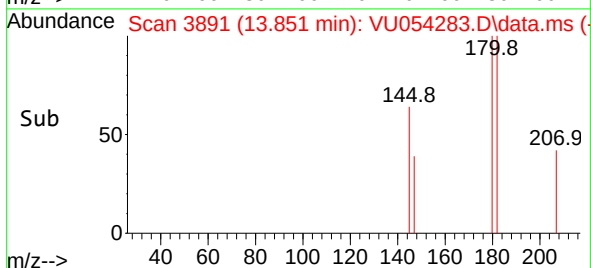
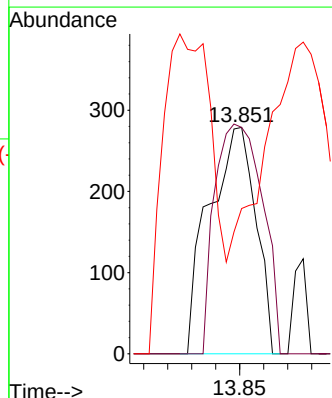
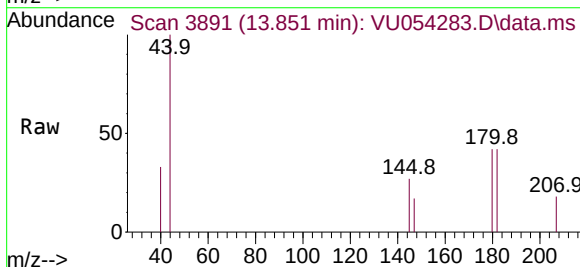
Instrument :
 MSVOA_U
 ClientSampleId :
 48BR-20230524

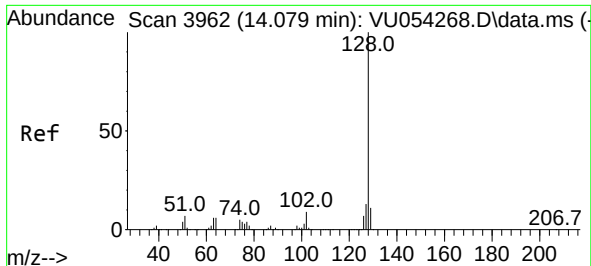
Tgt Ion: 75 Resp: 88628
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 37.0 55.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.726 ug/l
 RT: 13.851 min Scan# 3891
 Delta R.T. 0.016 min
 Lab File: VU054283.D
 Acq: 26 May 2023 14:15

Tgt Ion:180 Resp: 378
 Ion Ratio Lower Upper
 180 100
 182 103.7 47.9 143.6
 145 0.0 14.0 41.9#

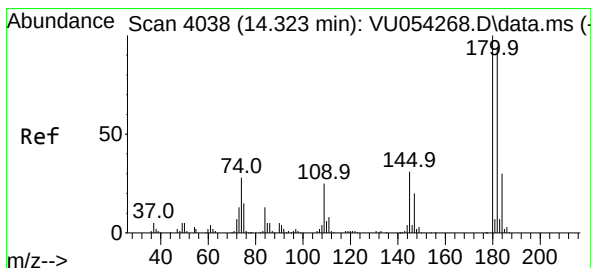
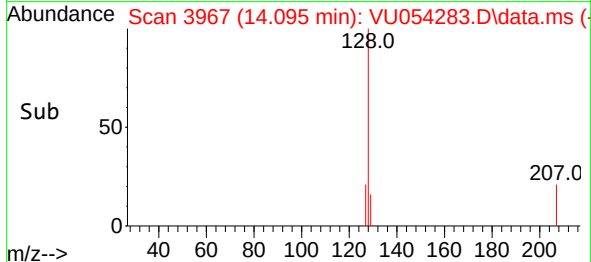
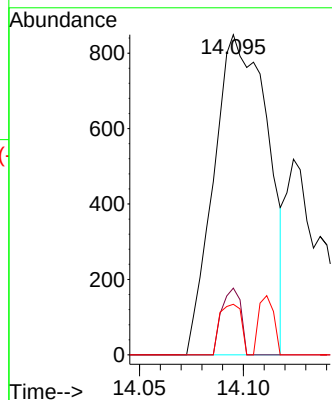
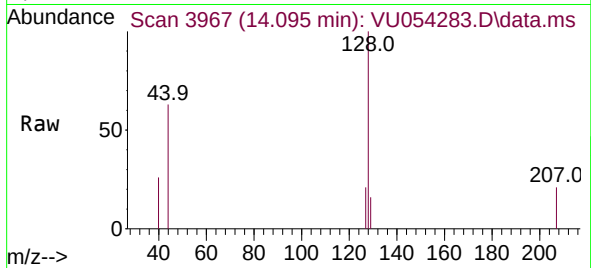




#95
Naphthalene
Concen: 2.095 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Instrument :
MSVOA_U
ClientSampleId :
48BR-20230524

Tgt Ion:128 Resp: 1533
Ion Ratio Lower Upper
128 100
127 7.4 10.3 15.5#
129 6.3 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.377 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.010 min
Lab File: VU054283.D
Acq: 26 May 2023 14:15

Tgt Ion:180 Resp: 547
Ion Ratio Lower Upper
180 100
182 93.6 48.4 145.0
145 26.1 14.8 44.4

