

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054279.D
 Acq On : 26 May 2023 12:40
 Operator : JC/MD
 Sample : 02936-02DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 91BR-20230523DL

Quant Time: May 30 00:00:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

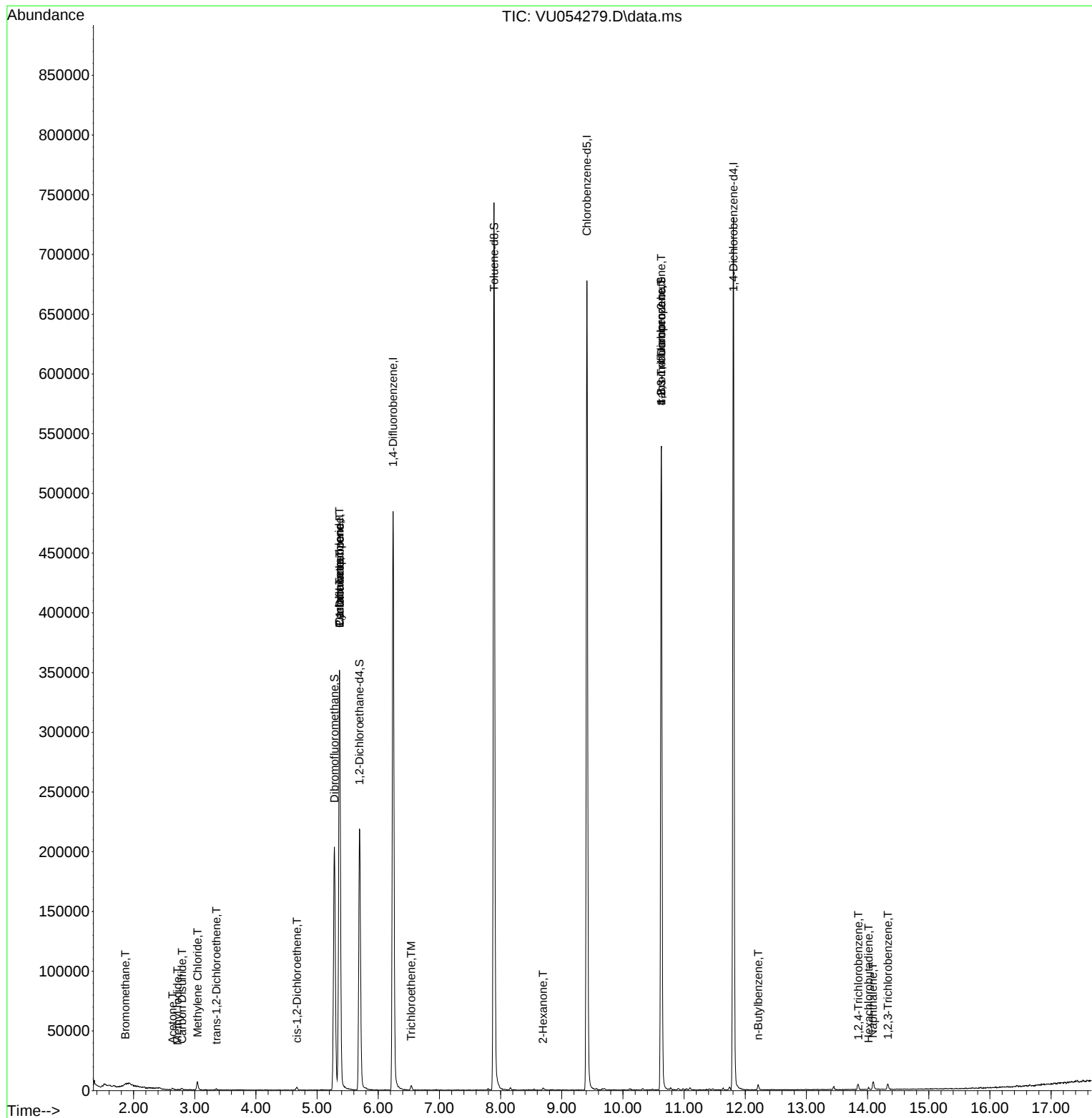
Internal Standards						
1) Pentafluorobenzene	5.369	168	256453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	408950	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	385644	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	197144	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	166176	49.430	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.860%
35) Dibromofluoromethane	5.282	113	134030	50.893	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.780%
50) Toluene-d8	7.893	98	498941	49.809	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.620%
62) 4-Bromofluorobenzene	10.626	95	181120	46.631	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.260%
Target Compounds						
					Qvalue	
5) Bromomethane	1.864	94	481	0.243	ug/l #	54
10) Methyl Iodide	2.719	142	153	2.377	ug/l #	43
16) Acetone	2.639	43	1267	0.657	ug/l #	81
17) Carbon Disulfide	2.793	76	1863	0.229	ug/l #	75
20) Methylene Chloride	3.044	84	3267	0.940	ug/l	96
21) trans-1,2-Dichloroethene	3.356	96	632	0.214	ug/l #	81
27) cis-1,2-Dichloroethene	4.671	96	1191	0.363	ug/l	87
31) Cyclohexane	5.369	56	5166	1.088	ug/l #	4
36) 1,1-Dichloropropene	5.369	75	19678	4.757	ug/l #	45
38) Carbon Tetrachloride	5.366	117	24424	5.769	ug/l #	16
44) Trichloroethene	6.539	130	1553	0.471	ug/l	86
59) 2-Hexanone	8.693	43	1550	0.423	ug/l	75
76) 1,2,3-Trichloropropane	10.626	75	93478	16.246	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	93478	61.865	ug/l #	15
89) n-Butylbenzene	12.211	91	2256	0.216	ug/l	96
93) 1,2,4-Trichlorobenzene	13.848	180	2109	2.093	ug/l	92
94) Hexachlorobutadiene	14.018	225	361	0.989	ug/l #	76
95) Naphthalene	14.089	128	7822	2.506	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.333	180	2205	1.733	ug/l	94

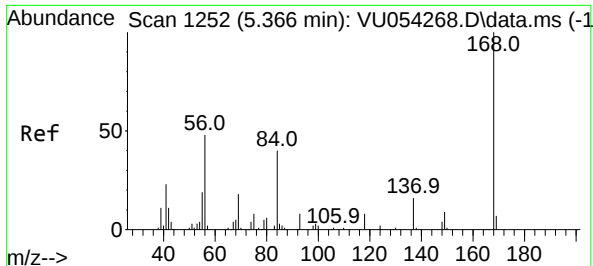
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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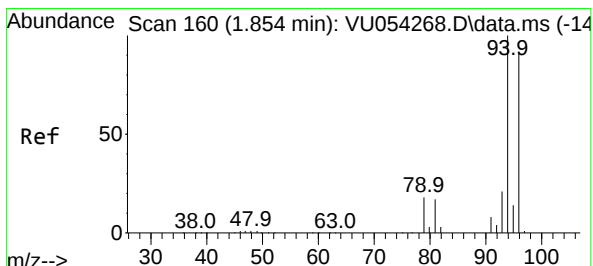
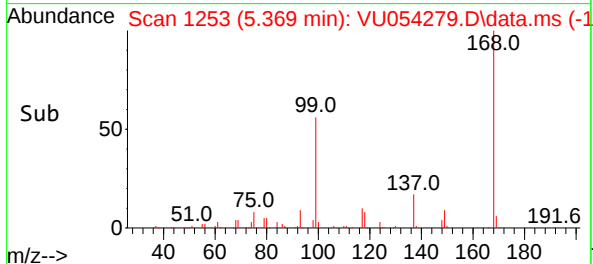
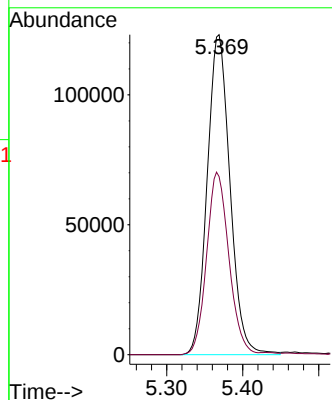
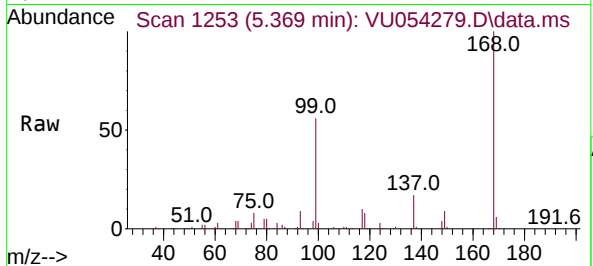




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

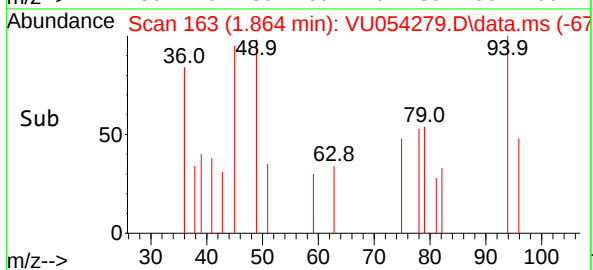
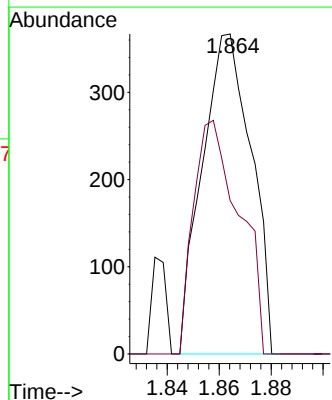
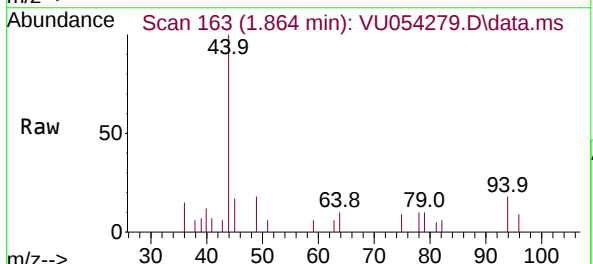
Instrument :
MSVOA_U
ClientSampleId :
91BR-20230523DL

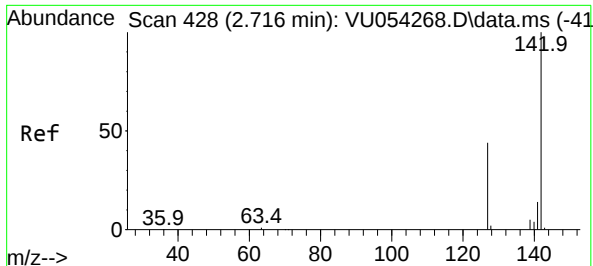
Tgt Ion:168 Resp: 256453
Ion Ratio Lower Upper
168 100
99 55.6 39.3 58.9



#5
Bromomethane
Concen: 0.243 ug/l
RT: 1.864 min Scan# 163
Delta R.T. 0.010 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion: 94 Resp: 481
Ion Ratio Lower Upper
94 100
96 48.0 73.7 110.5#





#10

Methyl Iodide

Concen: 2.377 ug/l

RT: 2.719 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU054279.D

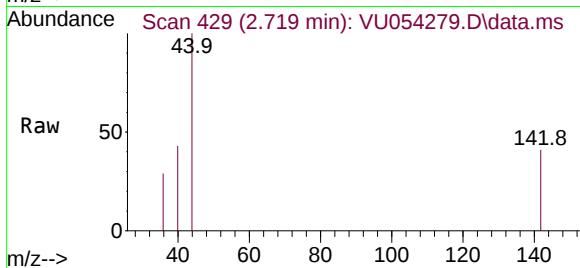
Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

91BR-20230523DL



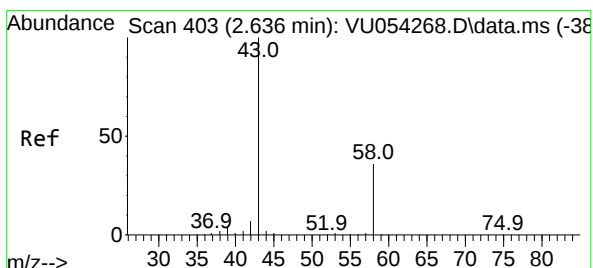
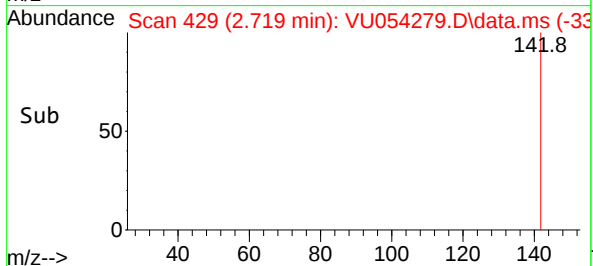
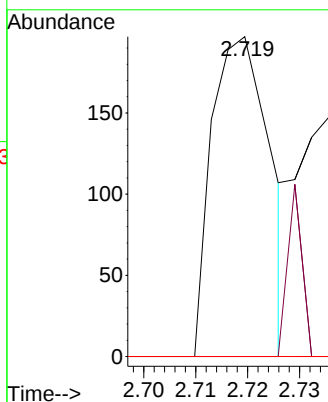
Tgt Ion:142 Resp: 153

Ion Ratio Lower Upper

142 100

127 0.0 32.5 48.7#

141 0.0 11.4 17.0#



#16

Acetone

Concen: 0.657 ug/l

RT: 2.639 min Scan# 404

Delta R.T. 0.003 min

Lab File: VU054279.D

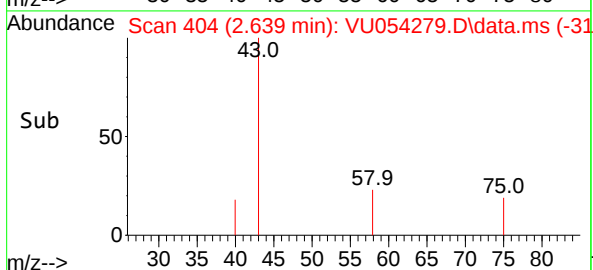
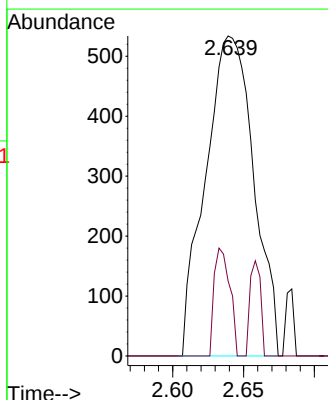
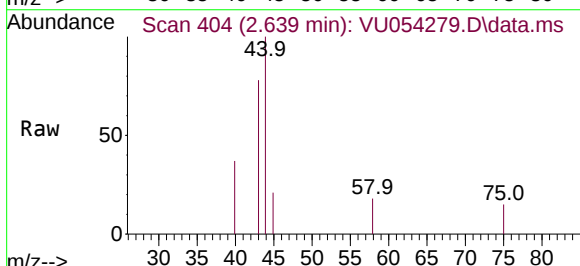
Acq: 26 May 2023 12:40

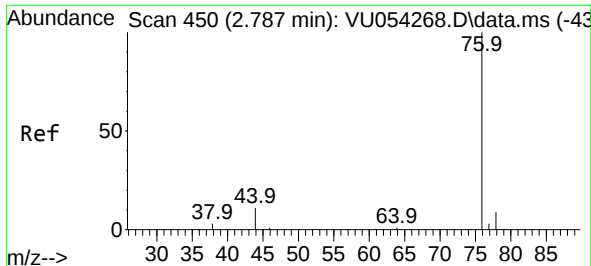
Tgt Ion: 43 Resp: 1267

Ion Ratio Lower Upper

43 100

58 23.4 27.5 41.3#





#17

Carbon Disulfide

Concen: 0.229 ug/l

RT: 2.793 min Scan# 4

Delta R.T. 0.006 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

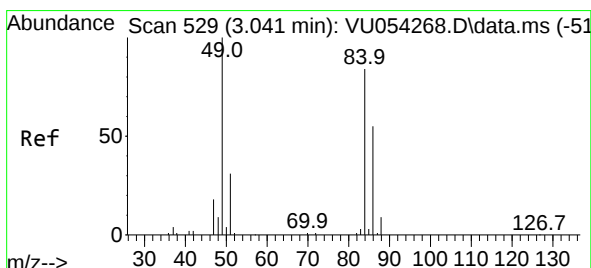
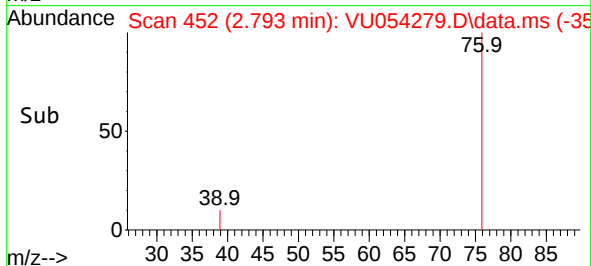
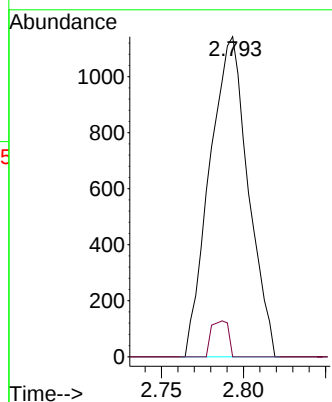
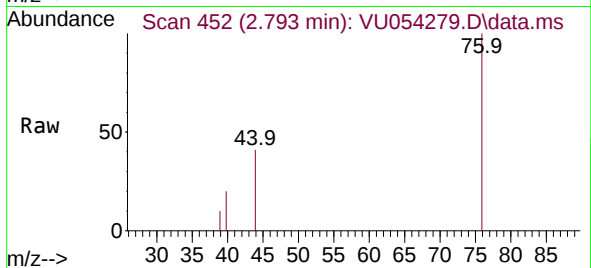
91BR-20230523DL

Tgt Ion: 76 Resp: 1863

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#20

Methylene Chloride

Concen: 0.940 ug/l

RT: 3.044 min Scan# 530

Delta R.T. 0.003 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

Tgt Ion: 84 Resp: 3267

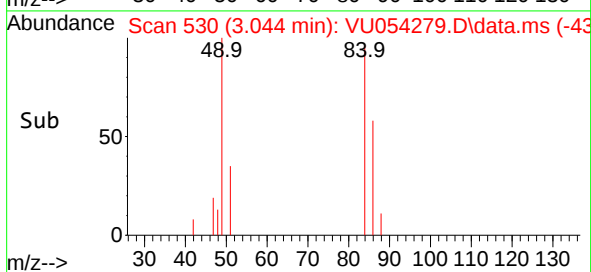
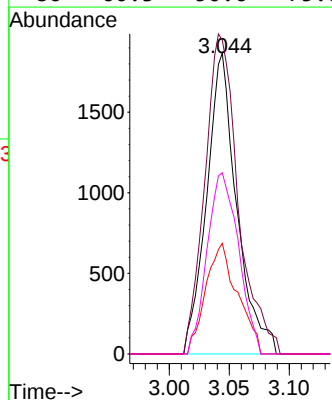
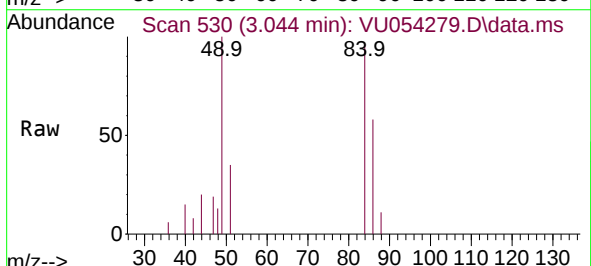
Ion Ratio Lower Upper

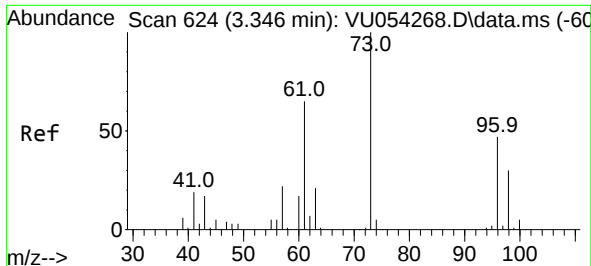
84 100

49 104.3 86.6 129.8

51 36.8 26.6 40.0

86 60.3 50.6 75.8

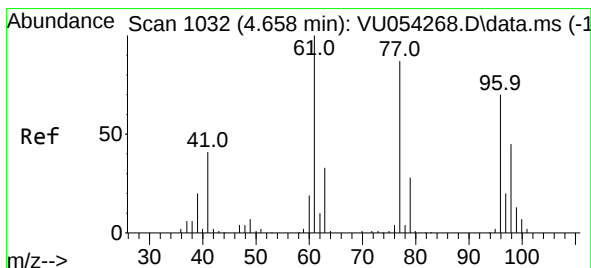
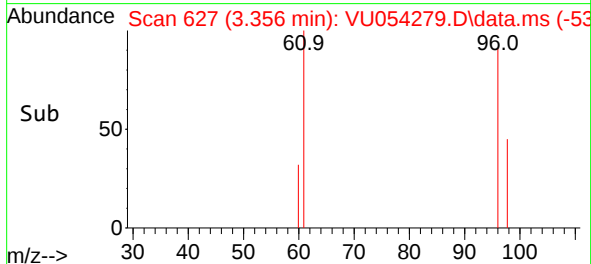
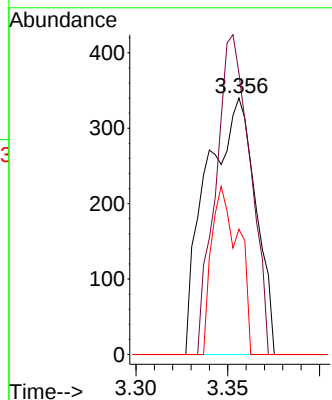
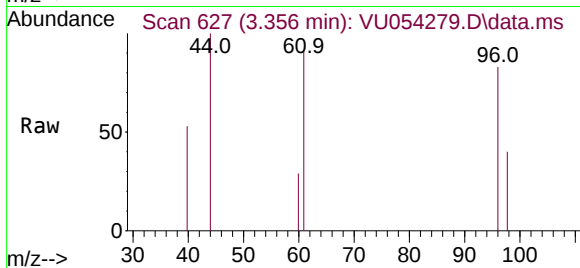




#21
trans-1,2-Dichloroethene
Concen: 0.214 ug/l
RT: 3.356 min Scan# 61
Delta R.T. 0.010 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

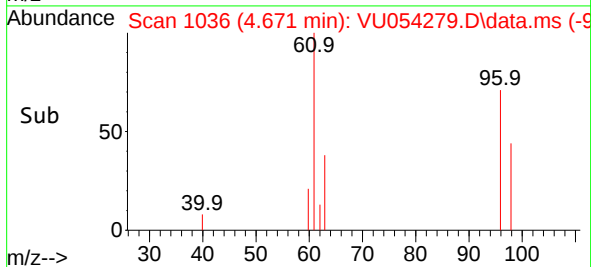
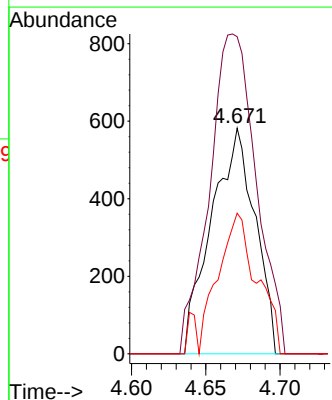
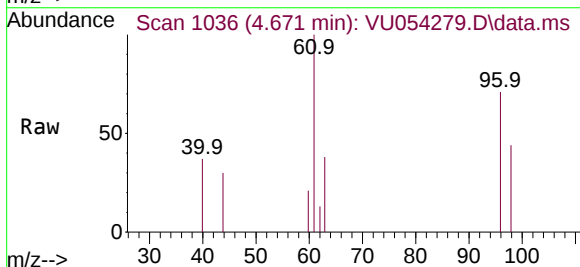
Instrument :
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ClientSampleId :
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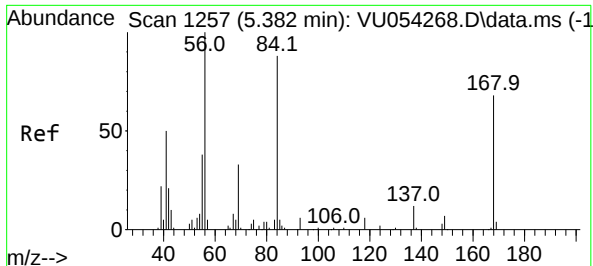
Tgt Ion: 96 Resp: 632
Ion Ratio Lower Upper
96 100
61 109.7 106.1 159.1
98 48.8 50.8 76.2#



#27
cis-1,2-Dichloroethene
Concen: 0.363 ug/l
RT: 4.671 min Scan# 1036
Delta R.T. 0.013 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion: 96 Resp: 1191
Ion Ratio Lower Upper
96 100
61 151.9 0.0 271.6
98 55.6 0.0 128.2

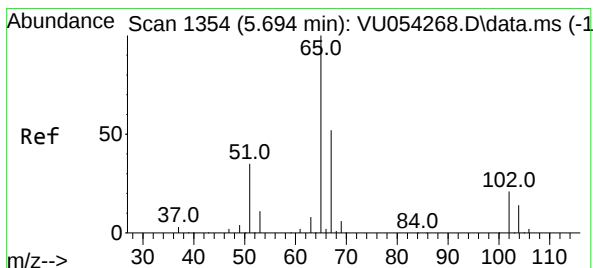
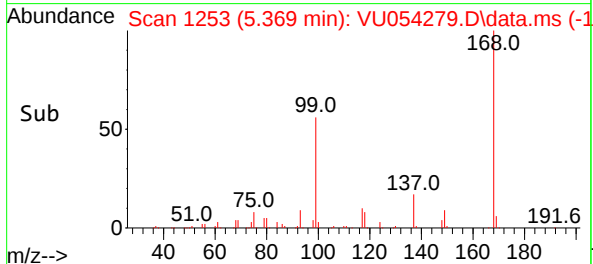
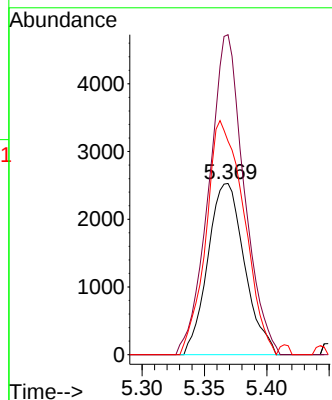
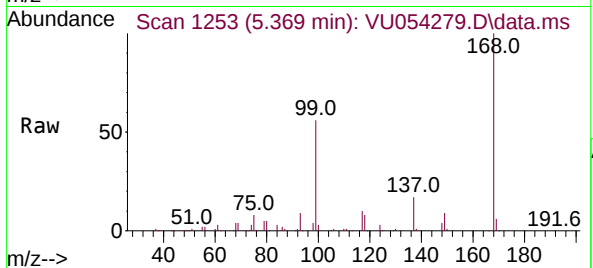




#31
Cyclohexane
Concen: 1.088 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.013 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

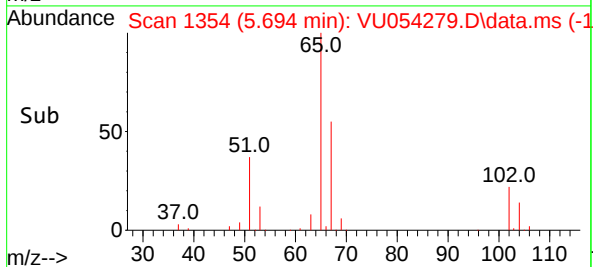
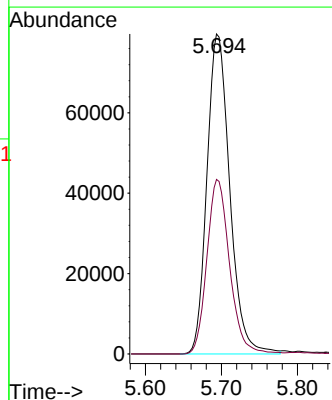
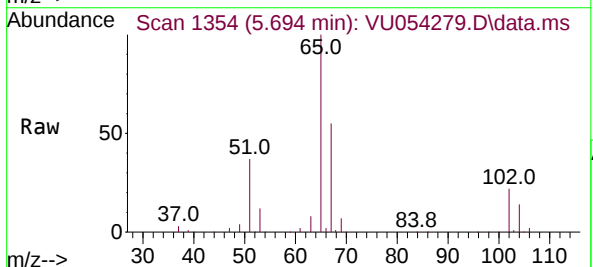
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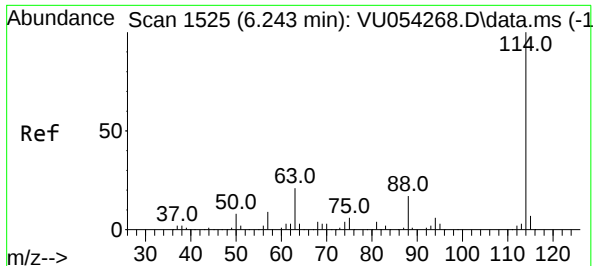
Tgt Ion: 56 Resp: 5166
Ion Ratio Lower Upper
56 100
69 186.9 27.8 41.8#
84 124.6 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 49.430 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion: 65 Resp: 166176
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.0

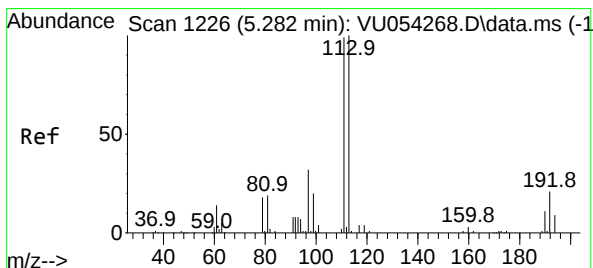
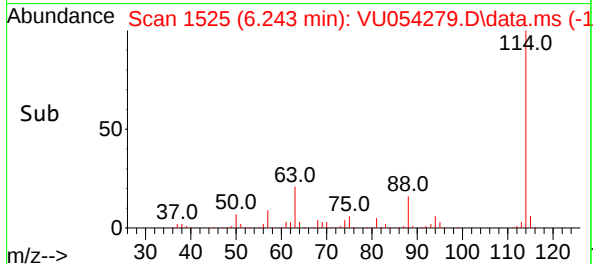
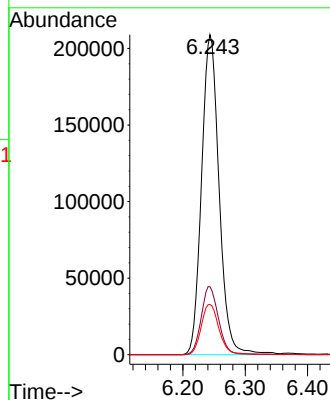
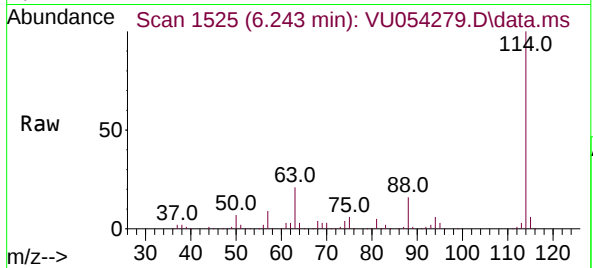




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

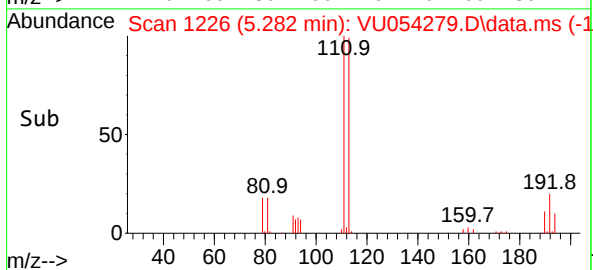
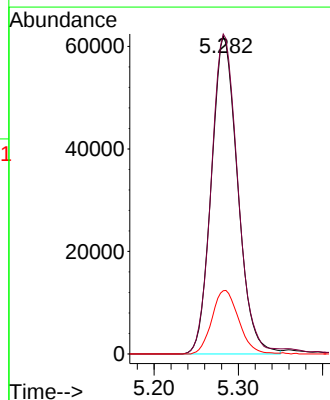
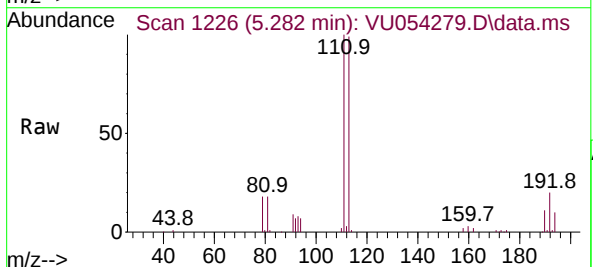
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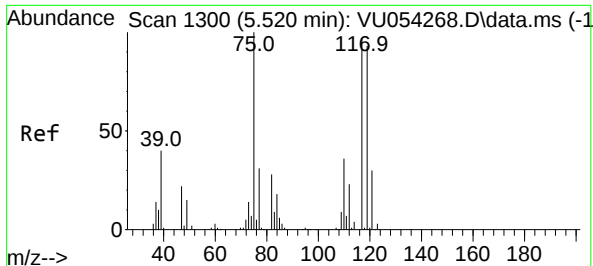
Tgt Ion:114 Resp: 408950
Ion Ratio Lower Upper
114 100
63 21.3 0.0 37.8
88 15.7 0.0 29.2



#35
Dibromofluoromethane
Concen: 50.893 ug/l
RT: 5.282 min Scan# 1226
Delta R.T. 0.000 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion:113 Resp: 134030
Ion Ratio Lower Upper
113 100
111 101.6 82.1 123.1
192 20.4 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.757 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

91BR-20230523DL

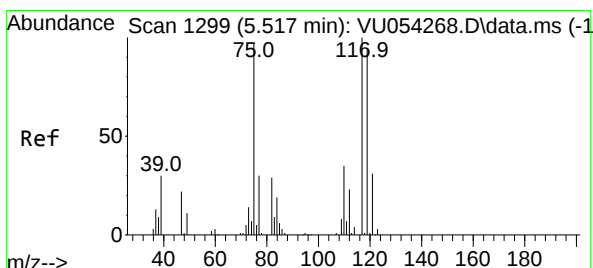
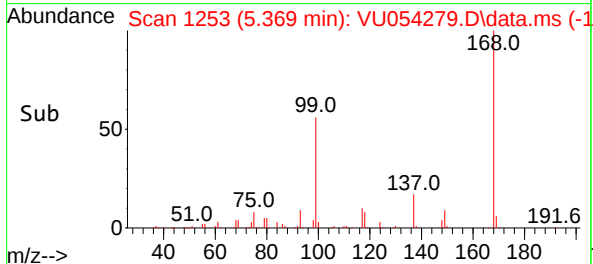
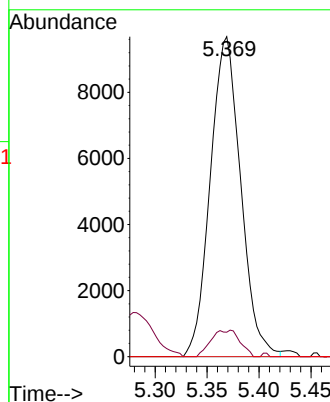
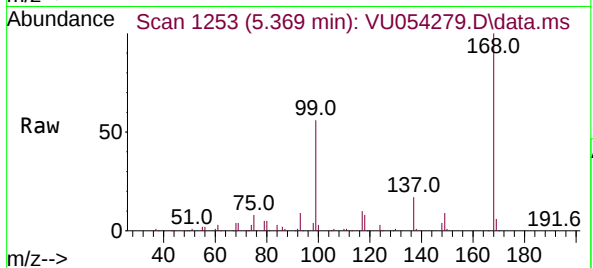
Tgt Ion: 75 Resp: 19678

Ion Ratio Lower Upper

75 100

110 4.6 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.769 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

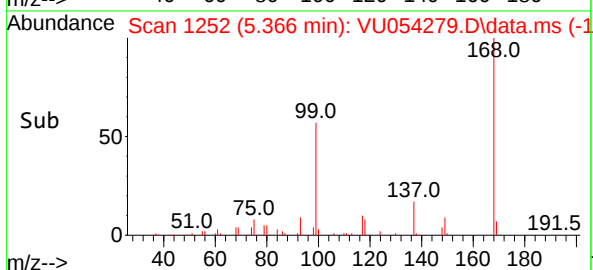
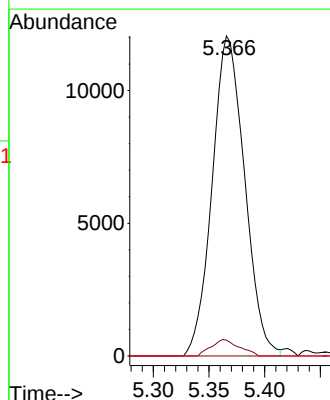
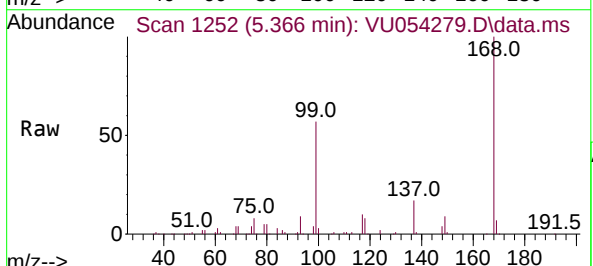
Tgt Ion: 117 Resp: 24424

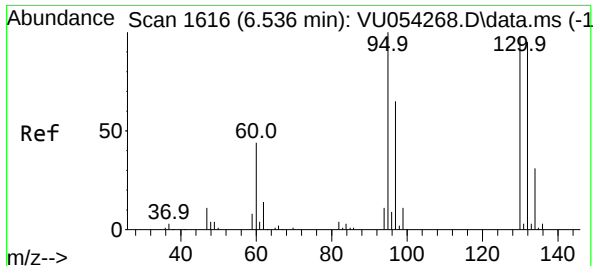
Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

121 0.0 24.7 37.1#

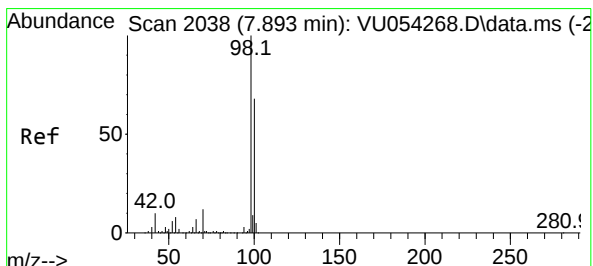
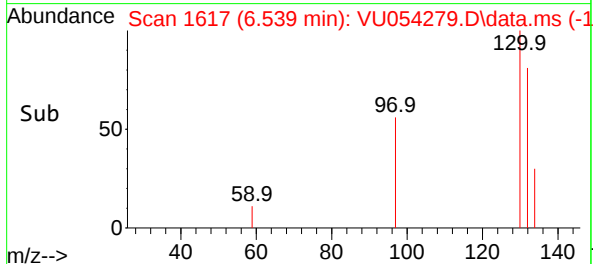
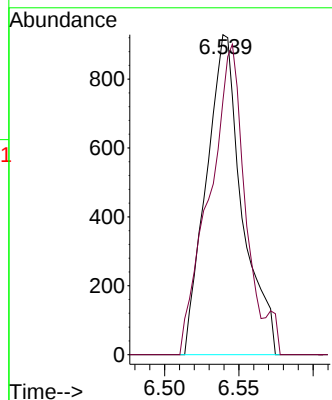
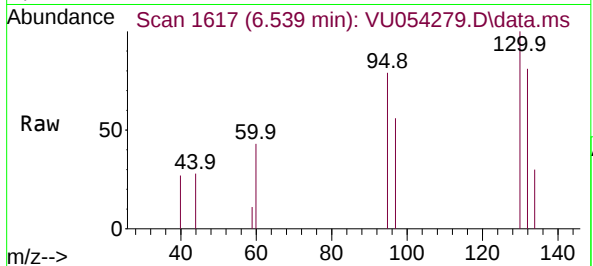




#44
Trichloroethene
Concen: 0.471 ug/l
RT: 6.539 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

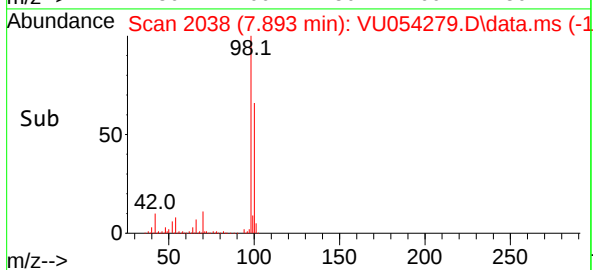
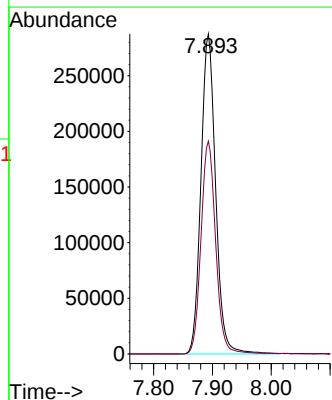
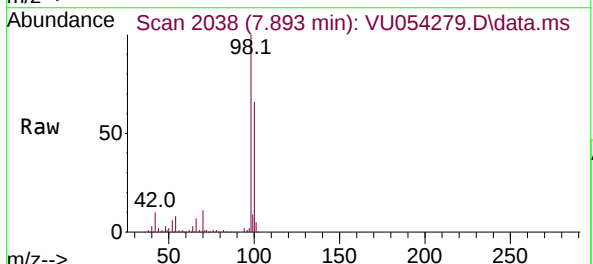
Instrument :
MSVOA_U
ClientSampleId :
91BR-20230523DL

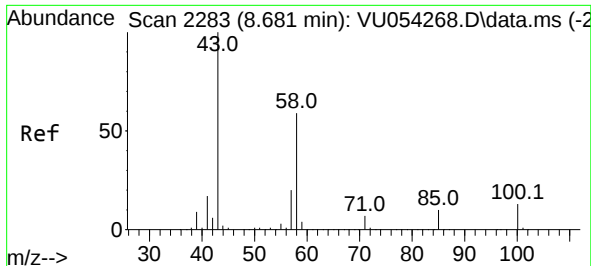
Tgt Ion:130 Resp: 1553
Ion Ratio Lower Upper
130 100
95 79.3 0.0 184.6



#50
Toluene-d8
Concen: 49.809 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion: 98 Resp: 498941
Ion Ratio Lower Upper
98 100
100 66.4 51.7 77.5





#59

2-Hexanone

Concen: 0.423 ug/l

RT: 8.693 min Scan# 21

Delta R.T. 0.012 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

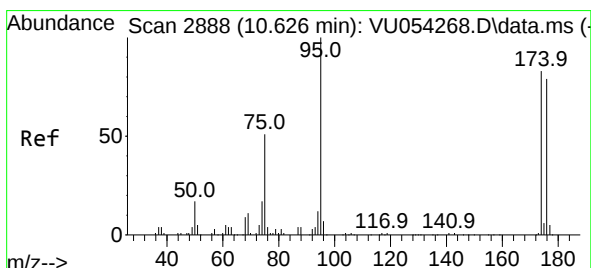
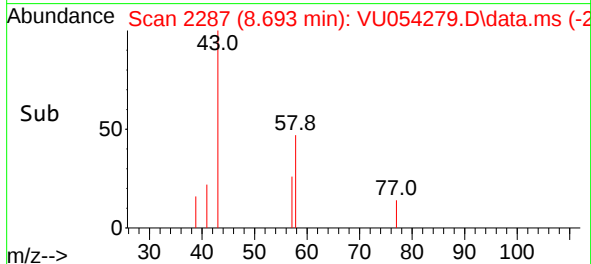
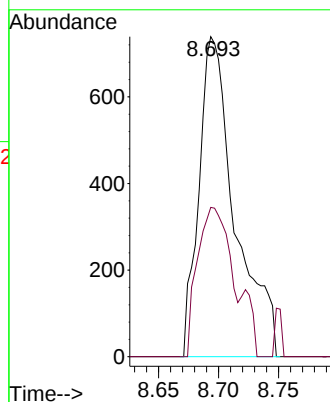
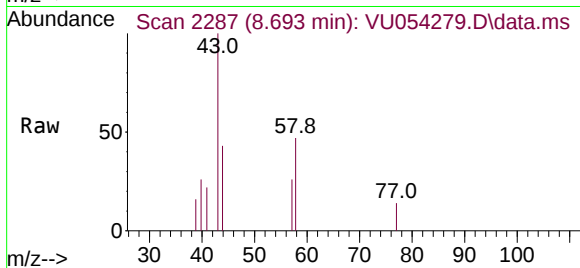
91BR-20230523DL

Tgt Ion: 43 Resp: 1550

Ion Ratio Lower Upper

43 100

58 41.5 30.3 90.8



#62

4-Bromofluorobenzene

Concen: 46.631 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.000 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

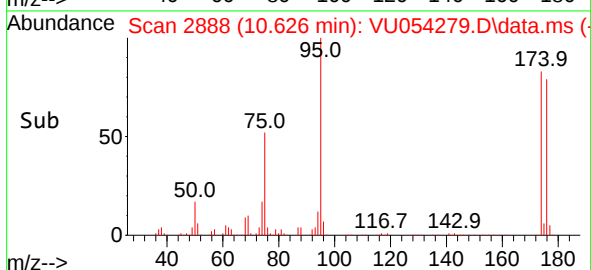
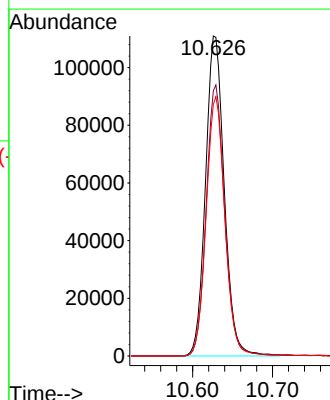
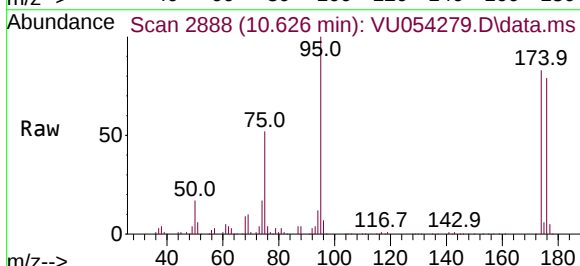
Tgt Ion: 95 Resp: 181120

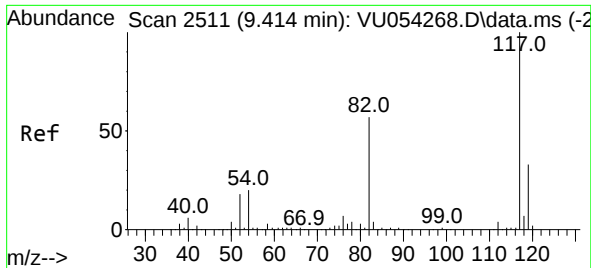
Ion Ratio Lower Upper

95 100

174 83.8 0.0 182.0

176 80.7 0.0 177.8

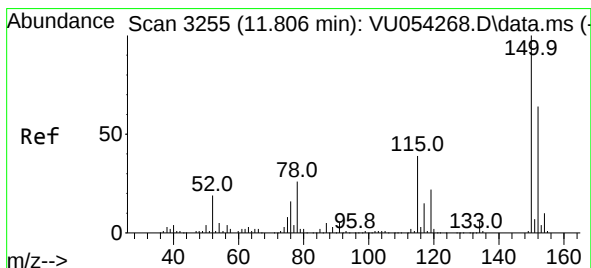
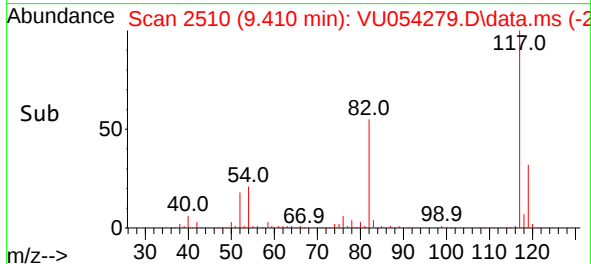
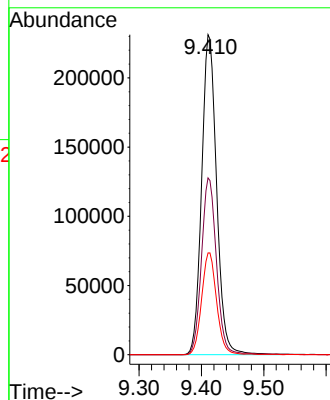
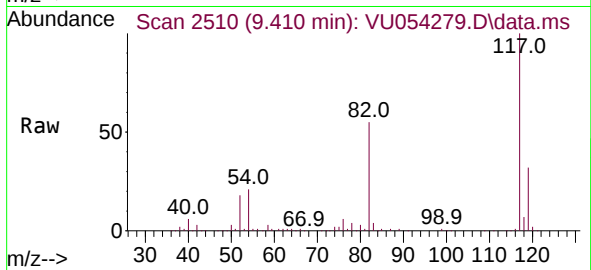




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.410 min Scan# 21
Delta R.T. -0.004 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

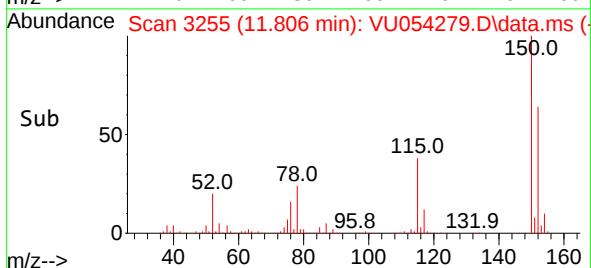
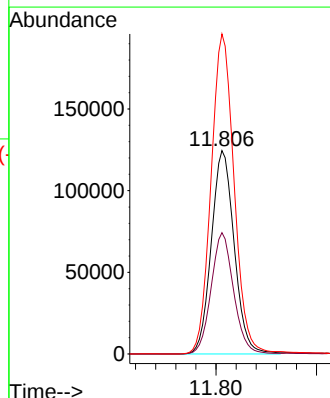
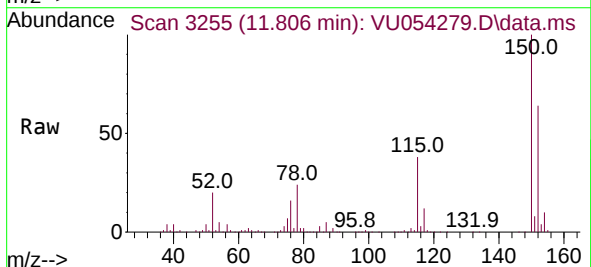
Instrument :
MSVOA_U
ClientSampleId :
91BR-20230523DL

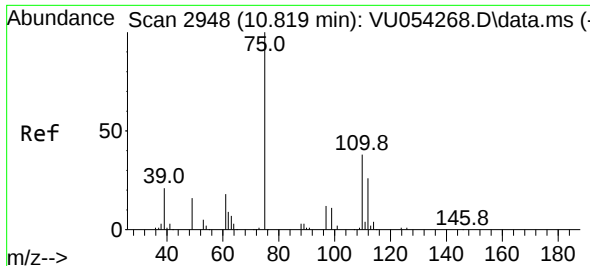
Tgt Ion:117 Resp: 385644
Ion Ratio Lower Upper
117 100
82 55.3 41.7 62.5
119 31.8 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion:152 Resp: 197144
Ion Ratio Lower Upper
152 100
115 58.4 37.0 110.9
150 159.2 0.0 342.2

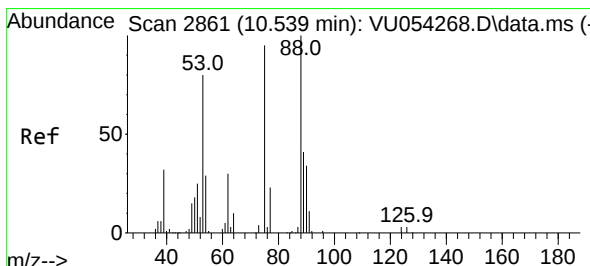
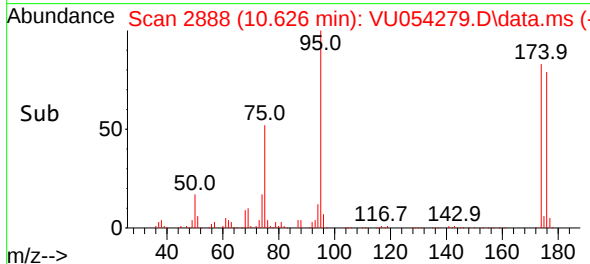
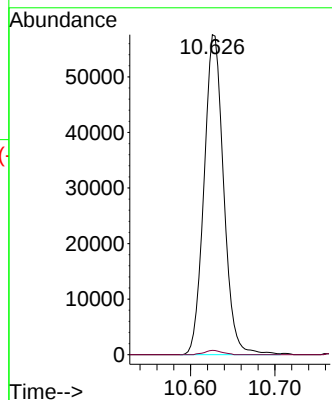
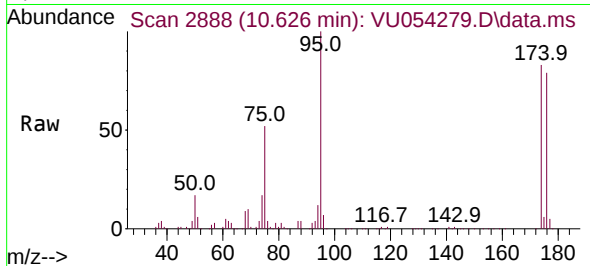




#76
1,2,3-Trichloropropane
Concen: 16.246 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

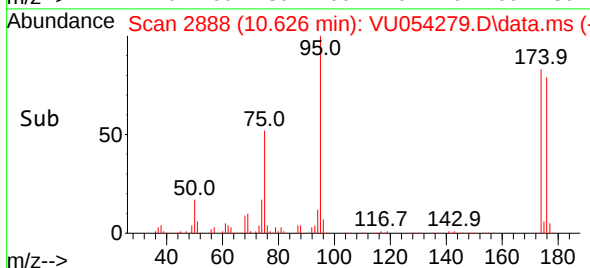
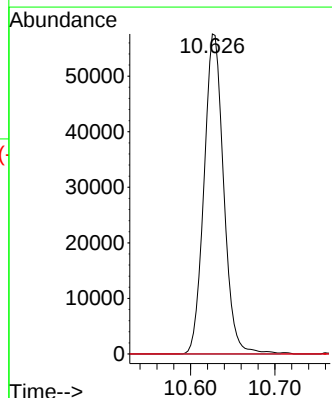
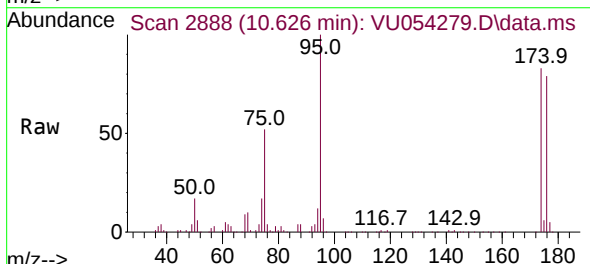
Instrument :
MSVOA_U
ClientSampleId :
91BR-20230523DL

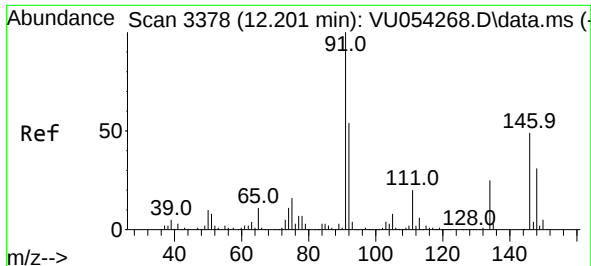
Tgt Ion: 75 Resp: 93478
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.865 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion: 75 Resp: 93478
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#





#89

n-Butylbenzene

Concen: 0.216 ug/l

RT: 12.211 min Scan# 31

Delta R.T. 0.010 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

91BR-20230523DL

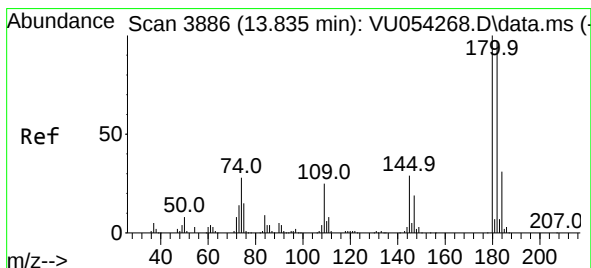
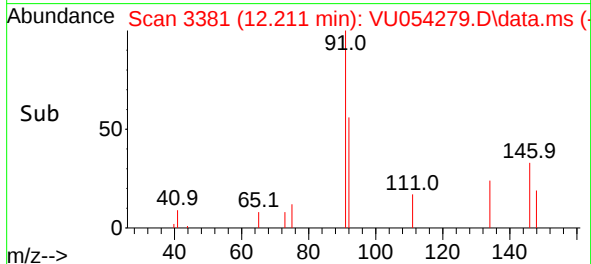
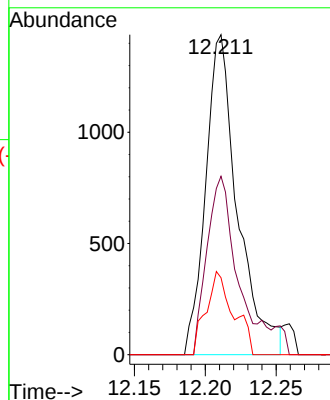
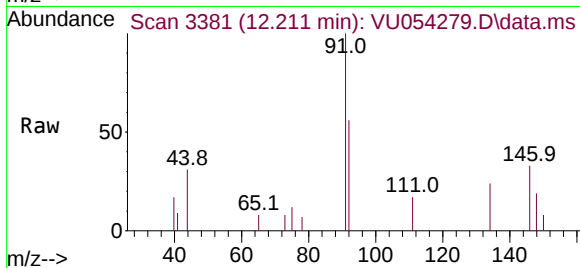
Tgt Ion: 91 Resp: 2256

Ion Ratio Lower Upper

91 100

92 53.6 26.2 78.6

134 22.2 13.5 40.4



#93

1,2,4-Trichlorobenzene

Concen: 2.093 ug/l

RT: 13.848 min Scan# 3890

Delta R.T. 0.013 min

Lab File: VU054279.D

Acq: 26 May 2023 12:40

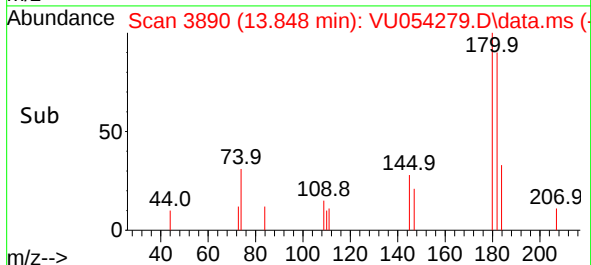
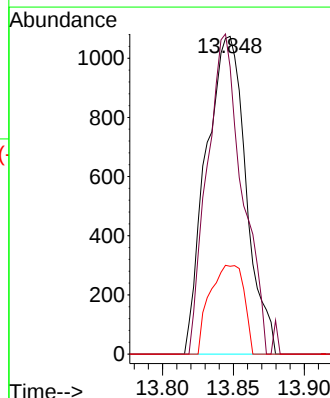
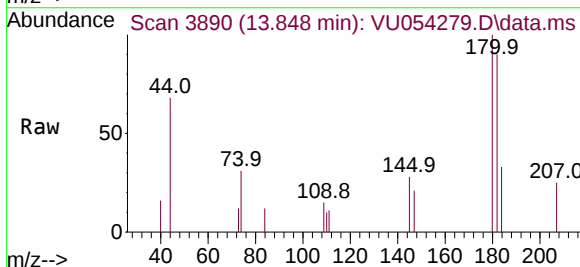
Tgt Ion:180 Resp: 2109

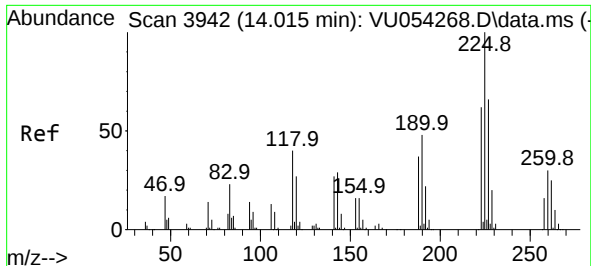
Ion Ratio Lower Upper

180 100

182 88.0 47.9 143.6

145 23.7 14.0 41.9

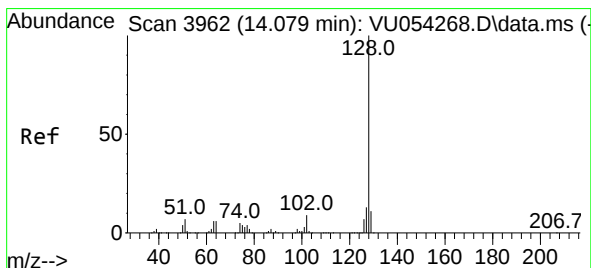
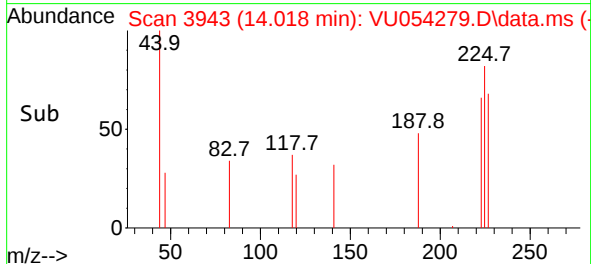
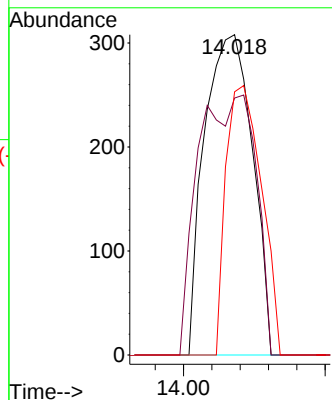
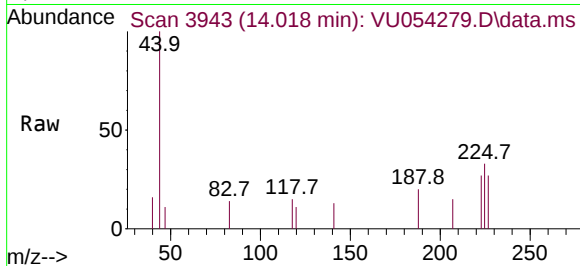




#94
Hexachlorobutadiene
Concen: 0.989 ug/l
RT: 14.018 min Scan# 3942
Delta R.T. 0.003 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

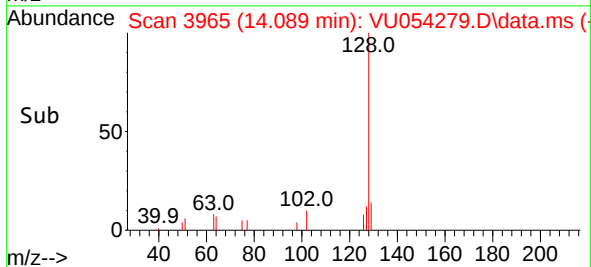
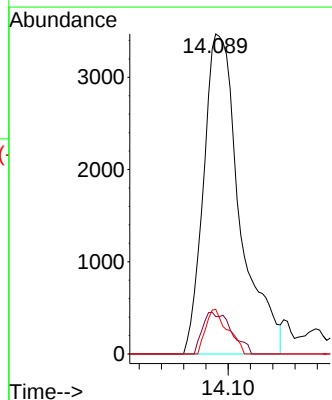
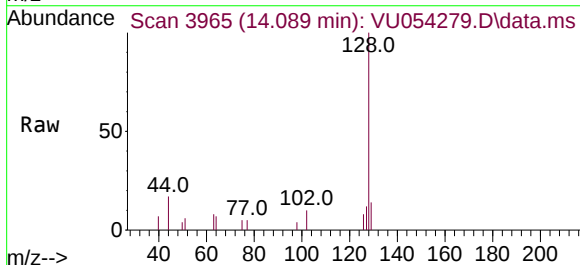
Instrument :
MSVOA_U
ClientSampleId :
91BR-20230523DL

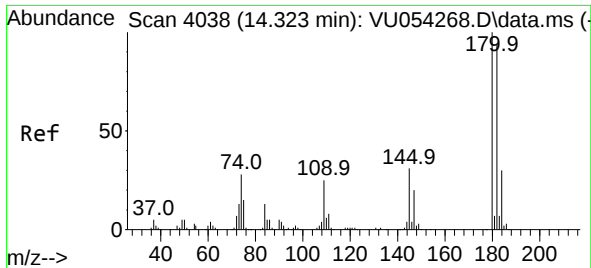
Tgt Ion	Ratio	Lower	Upper
225	100		
223	98.3	31.3	93.9#
227	62.6	32.0	96.2



#95
Naphthalene
Concen: 2.506 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.010 min
Lab File: VU054279.D
Acq: 26 May 2023 12:40

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.3	15.5
129	8.5	8.6	13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.733 ug/l

RT: 14.333 min Scan# 40

Delta R.T. 0.010 min

Lab File: VU054279.D

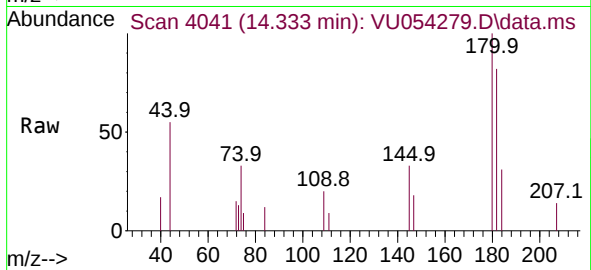
Acq: 26 May 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

91BR-20230523DL



Tgt Ion:180 Resp: 2205

Ion Ratio Lower Upper

180 100

182 90.1 48.4 145.0

145 28.3 14.8 44.4

