

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054288.D
 Acq On : 26 May 2023 16:13
 Operator : JC/MD
 Sample : 02936-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 8BR-20230524

Quant Time: May 30 00:03:07 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)

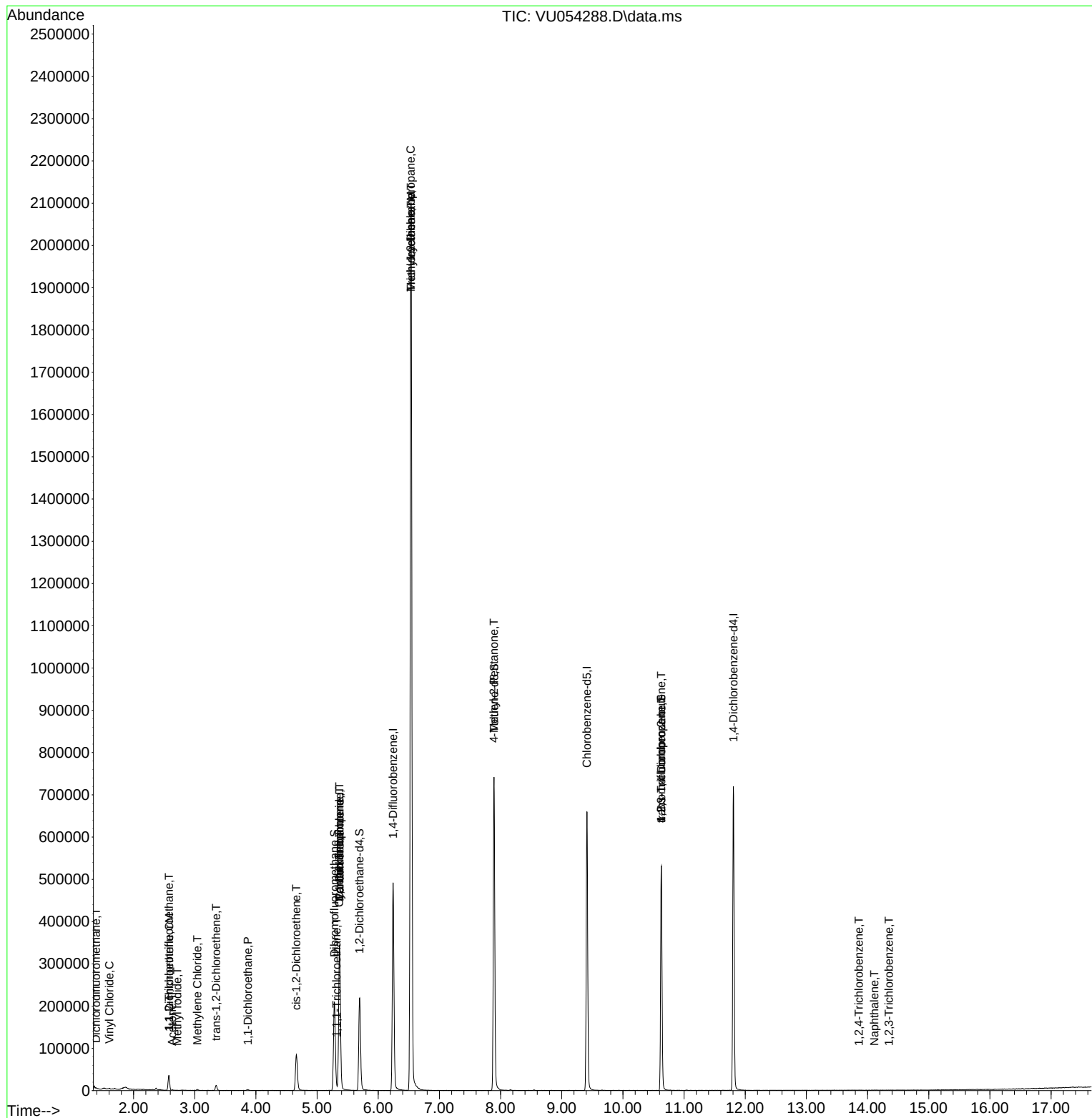
Internal Standards						
1) Pentafluorobenzene	5.369	168	254002	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	413408	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	380568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	197607	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	167762	50.383	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 100.760%	
35) Dibromofluoromethane	5.282	113	139084	52.243	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.480%	
50) Toluene-d8	7.893	98	498707	49.248	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 98.500%	
62) 4-Bromofluorobenzene	10.626	95	179464	45.707	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 91.420%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	1087	0.383	ug/l	99
4) Vinyl Chloride	1.604	62	778	0.220	ug/l #	80
9) 1,1,2-Trichlorotrifluo...	2.578	101	13637	5.168	ug/l	95
10) Methyl Iodide	2.716	142	20	2.337	ug/l #	43
12) 1,1-Dichloroethene	2.581	96	1354	0.496	ug/l #	68
16) Acetone	2.629	43	1360	0.713	ug/l #	87
20) Methylene Chloride	3.041	84	1288	0.374	ug/l #	83
21) trans-1,2-Dichloroethene	3.350	96	5256	1.797	ug/l	99
24) 1,1-Dichloroethane	3.870	63	2853	0.531	ug/l #	82
27) cis-1,2-Dichloroethene	4.661	96	47058	14.462	ug/l	94
31) Cyclohexane	5.362	56	4618	0.982	ug/l #	1
32) 1,1,1-Trichloroethane	5.317	97	1049	0.221	ug/l #	24
36) 1,1-Dichloropropene	5.366	75	19413	4.643	ug/l #	49
38) Carbon Tetrachloride	5.366	117	24607	5.749	ug/l #	16
39) Methylcyclohexane	6.536	83	8377	1.769	ug/l #	1
44) Trichloroethene	6.536	130	734769	220.378	ug/l	92
45) 1,2-Dichloropropane	6.529	63	2342	0.753	ug/l #	1
51) 4-Methyl-2-Pentanone	7.890	43	1849	0.394	ug/l #	1
76) 1,2,3-Trichloropropane	10.626	75	89769	15.565	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	89769	59.271	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.857	180	238	1.694	ug/l #	76
95) Naphthalene	14.111	128	637	2.033	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.349	180	144	1.286	ug/l #	84

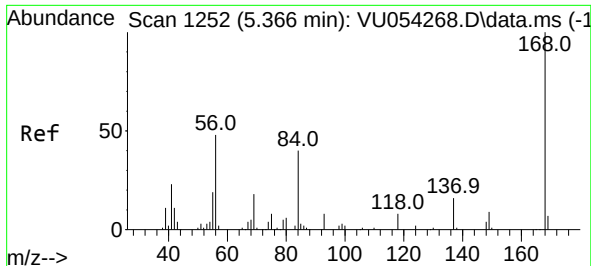
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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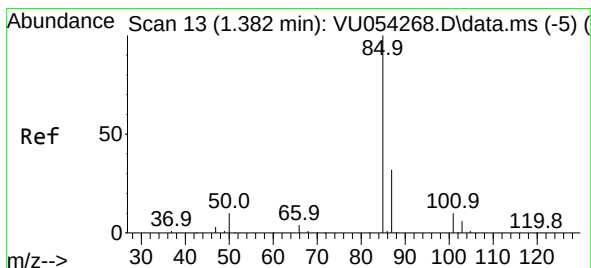
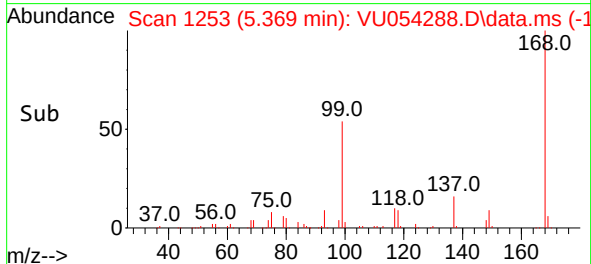
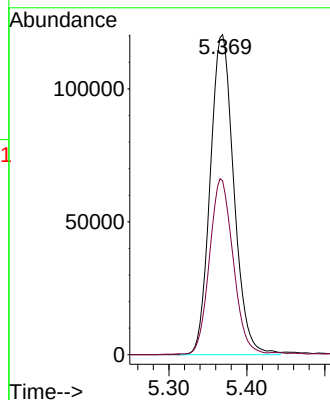
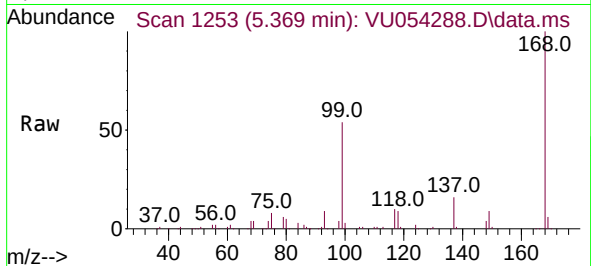




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

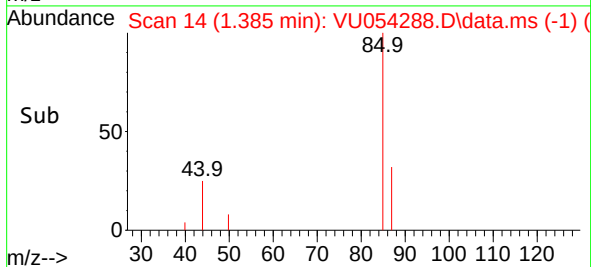
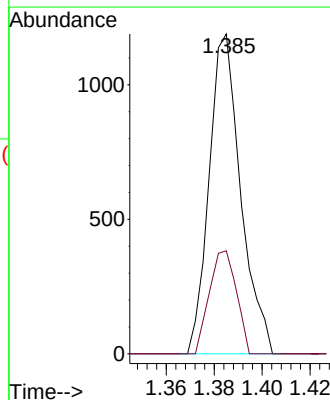
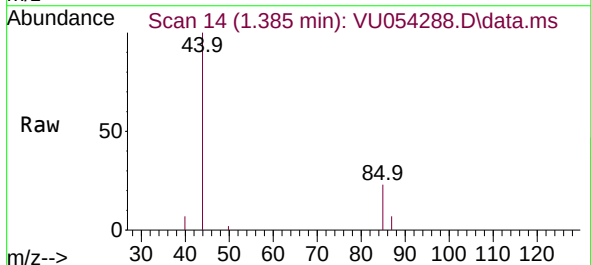
Instrument :
MSVOA_U
ClientSampleId :
8BR-20230524

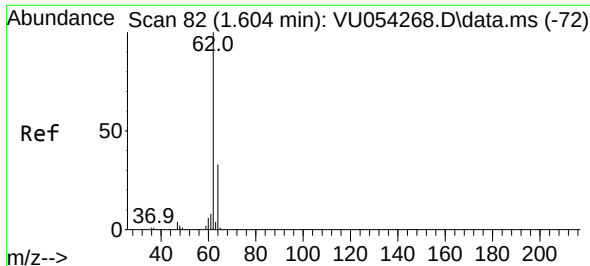
Tgt Ion:168 Resp: 254002
Ion Ratio Lower Upper
168 100
99 54.1 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.383 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion: 85 Resp: 1087
Ion Ratio Lower Upper
85 100
87 32.2 16.4 49.2

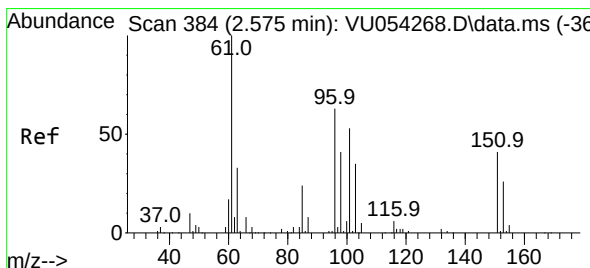
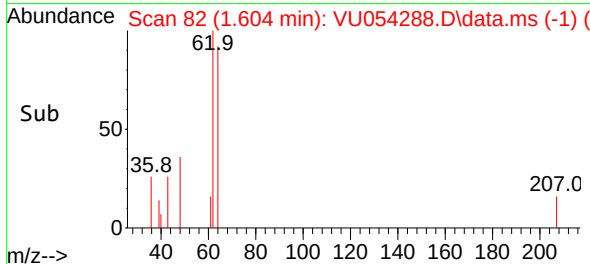
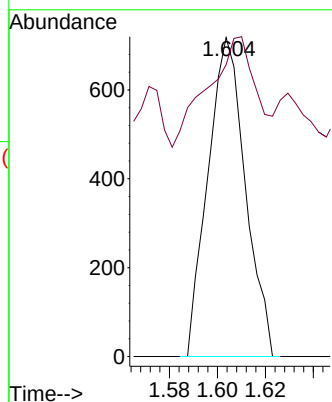
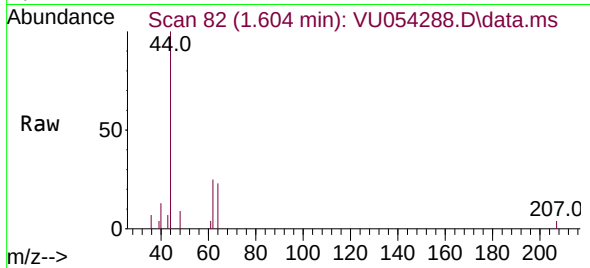




#4
 Vinyl Chloride
 Concen: 0.220 ug/l
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU054288.D
 Acq: 26 May 2023 16:13

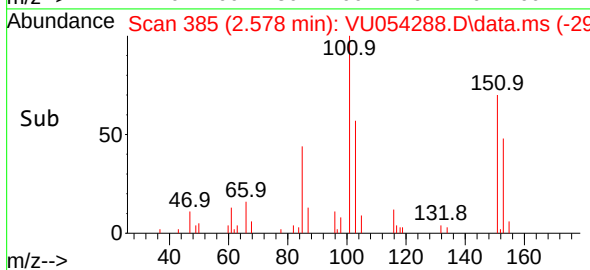
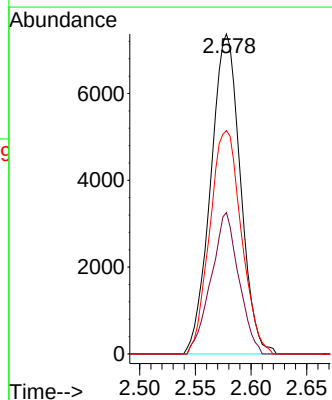
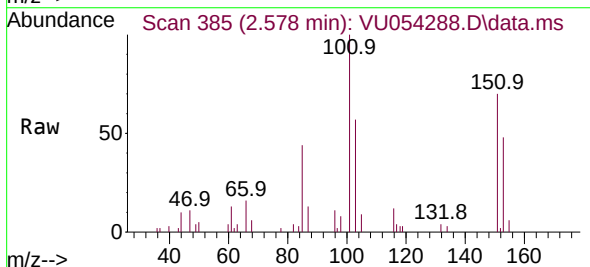
Instrument :
 MSVOA_U
 ClientSampleId :
 8BR-20230524

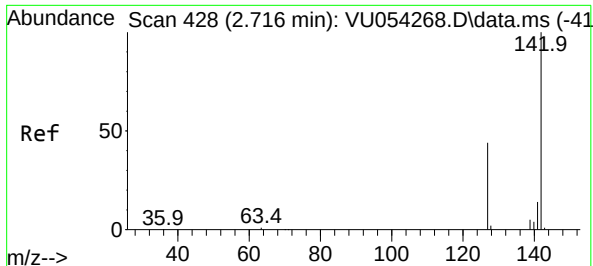
Tgt Ion: 62 Resp: 778
 Ion Ratio Lower Upper
 62 100
 64 20.8 25.3 37.9#



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 5.168 ug/l
 RT: 2.578 min Scan# 385
 Delta R.T. 0.003 min
 Lab File: VU054288.D
 Acq: 26 May 2023 16:13

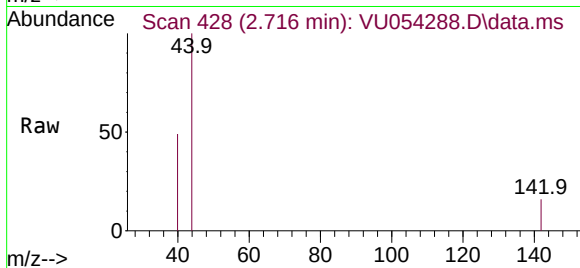
Tgt Ion: 101 Resp: 13637
 Ion Ratio Lower Upper
 101 100
 85 41.3 33.9 50.9
 151 74.2 64.0 96.0



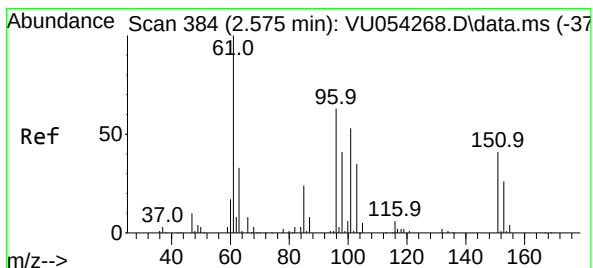
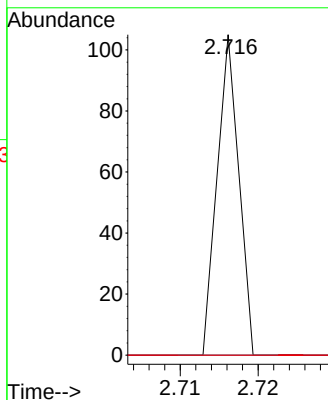
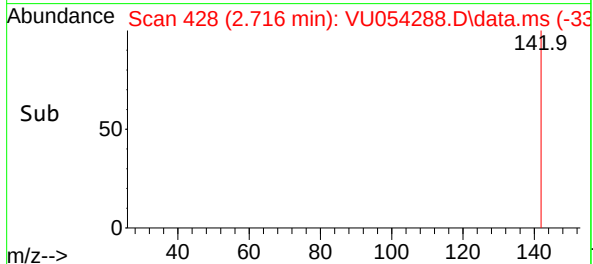


#10
Methyl Iodide
Concen: 2.337 ug/l
RT: 2.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

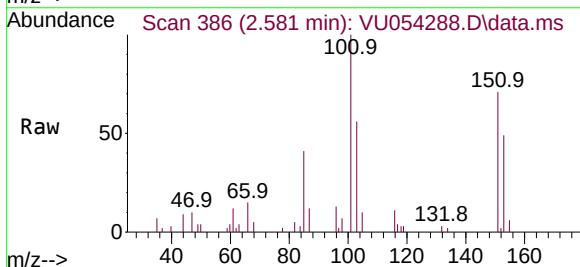
Instrument :
MSVOA_U
ClientSampleId :
8BR-20230524



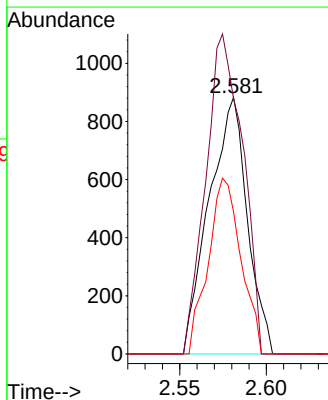
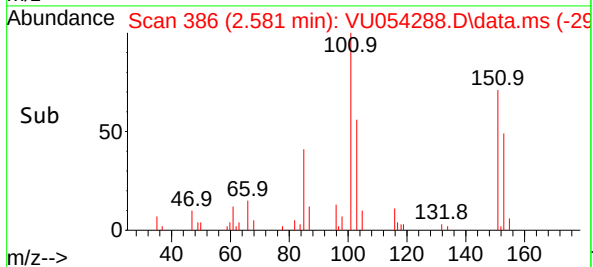
Tgt Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

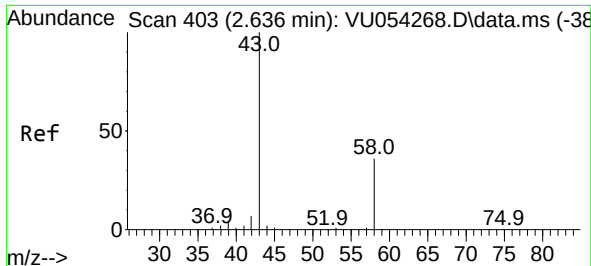


#12
1,1-Dichloroethene
Concen: 0.496 ug/l
RT: 2.581 min Scan# 386
Delta R.T. 0.006 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13



Tgt Ion: 96 Resp: 1354
Ion Ratio Lower Upper
96 100
61 99.4 122.2 183.2#
98 55.4 50.7 76.1

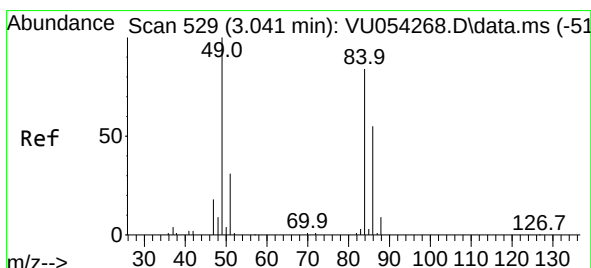
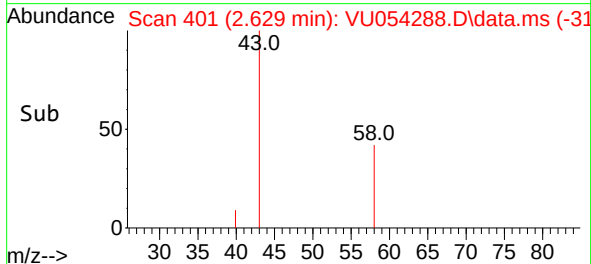
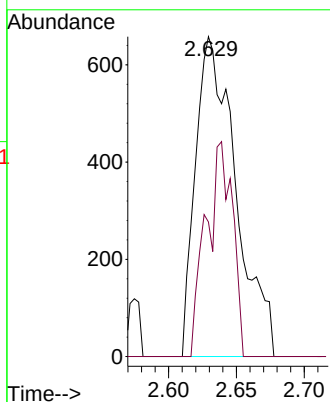
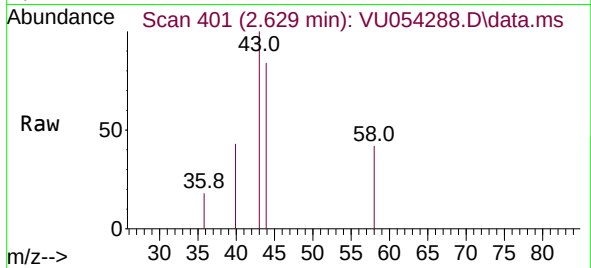




#16
Acetone
Concen: 0.713 ug/l
RT: 2.629 min Scan# 403
Delta R.T. -0.007 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

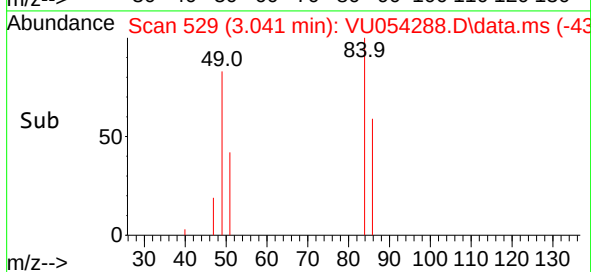
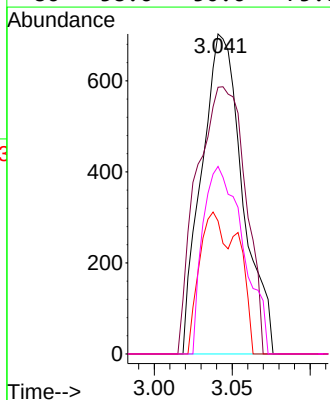
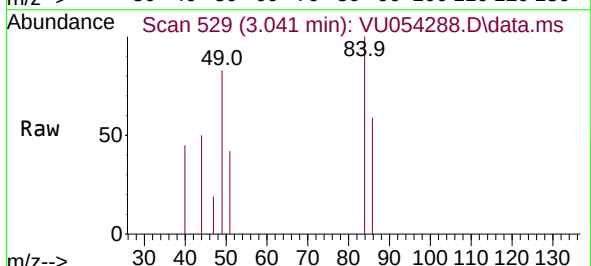
Instrument :
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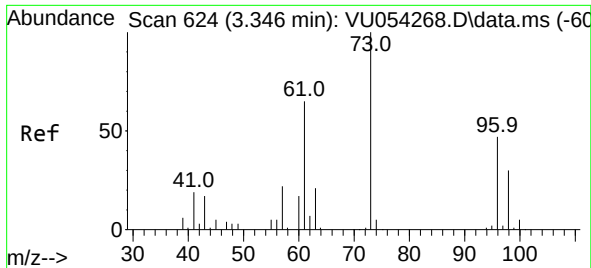
Tgt Ion: 43 Resp: 1360
Ion Ratio Lower Upper
43 100
58 42.1 27.5 41.3#



#20
Methylene Chloride
Concen: 0.374 ug/l
RT: 3.041 min Scan# 529
Delta R.T. -0.000 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion: 84 Resp: 1288
Ion Ratio Lower Upper
84 100
49 83.4 86.6 129.8#
51 41.5 26.6 40.0#
86 58.6 50.6 75.8

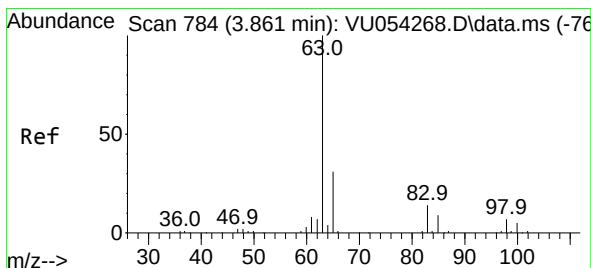
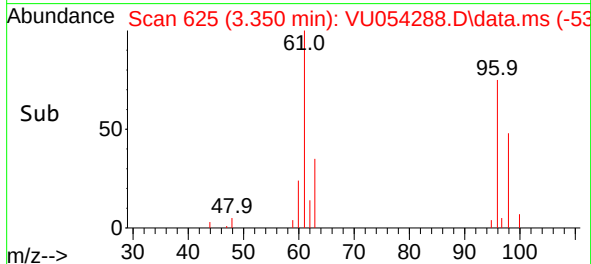
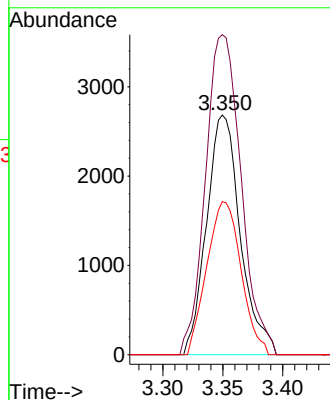
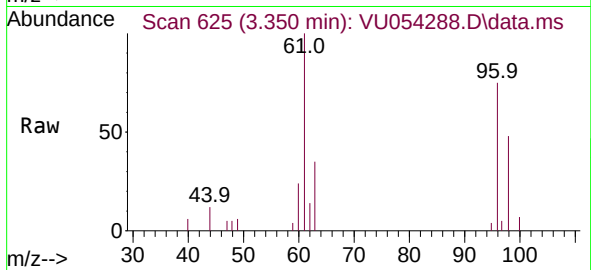




#21
trans-1,2-Dichloroethene
Concen: 1.797 ug/l
RT: 3.350 min Scan# 61
Delta R.T. 0.004 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

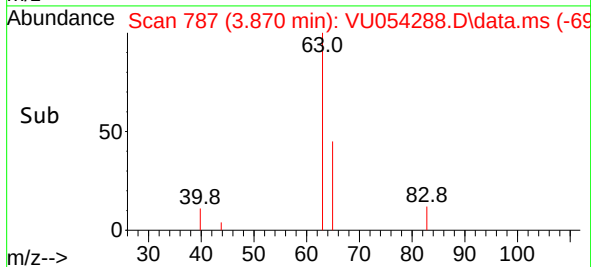
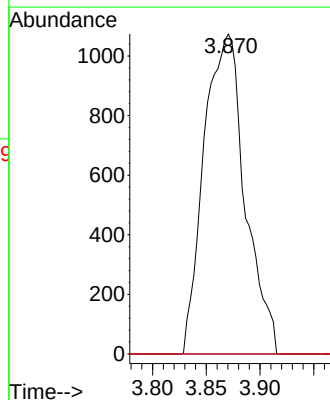
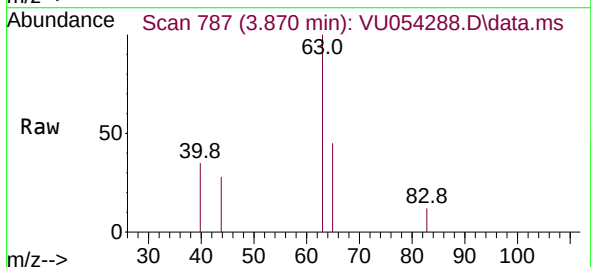
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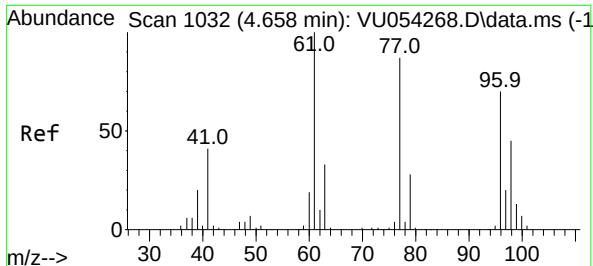
Tgt Ion: 96 Resp: 5256
Ion Ratio Lower Upper
96 100
61 133.5 106.1 159.1
98 63.9 50.8 76.2



#24
1,1-Dichloroethane
Concen: 0.531 ug/l
RT: 3.870 min Scan# 787
Delta R.T. 0.009 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion: 63 Resp: 2853
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.9#
100 0.0 2.4 7.2#

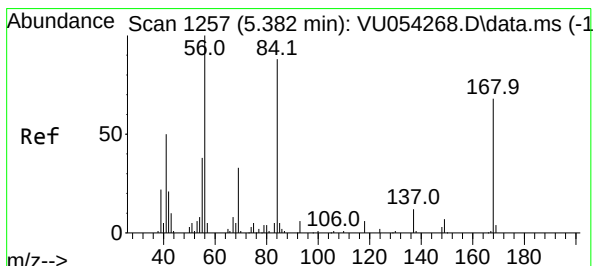
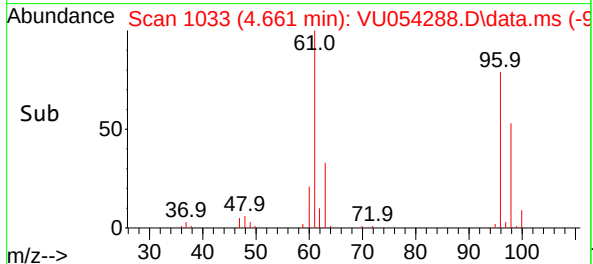
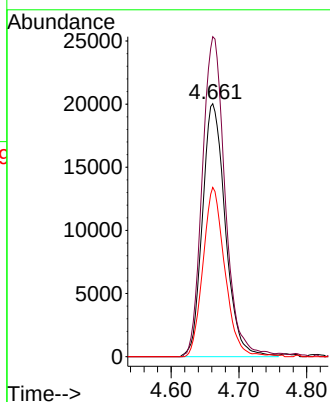
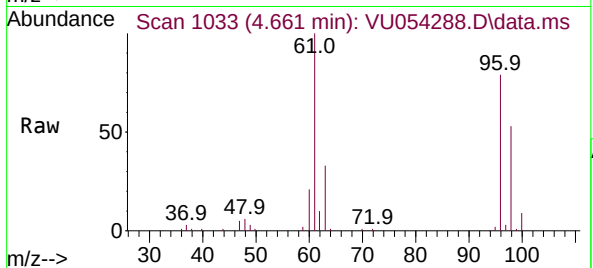




#27
 cis-1,2-Dichloroethene
 Concen: 14.462 ug/l
 RT: 4.661 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: VU054288.D
 Acq: 26 May 2023 16:13

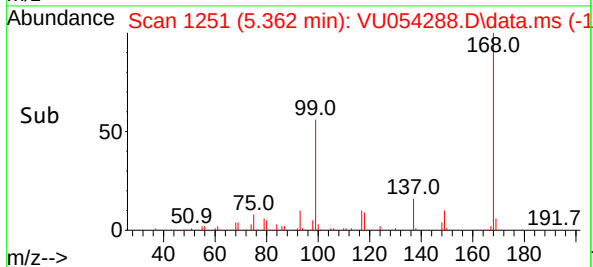
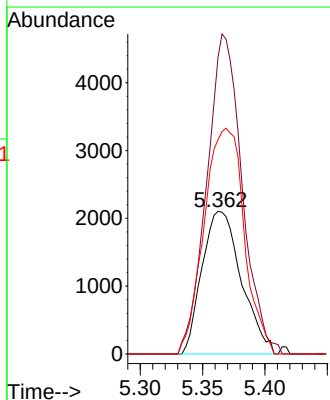
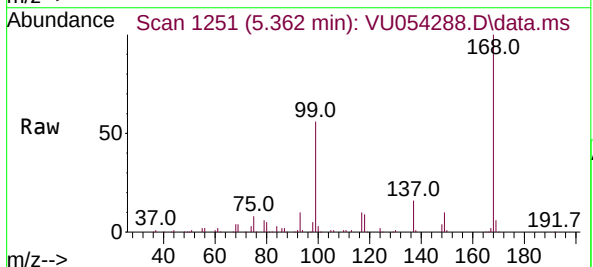
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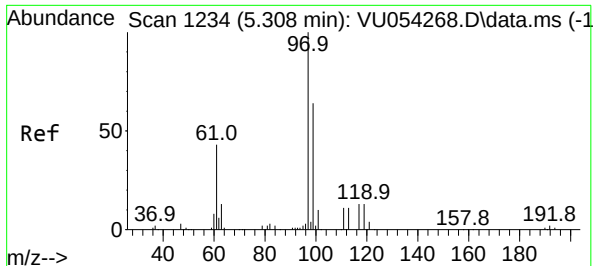
Tgt Ion:	96	Resp:	47058
Ion	Ratio	Lower	Upper
96	100		
61	126.1	0.0	271.6
98	63.6	0.0	128.2



#31
 Cyclohexane
 Concen: 0.982 ug/l
 RT: 5.362 min Scan# 1251
 Delta R.T. -0.020 min
 Lab File: VU054288.D
 Acq: 26 May 2023 16:13

Tgt Ion:	56	Resp:	4618
Ion	Ratio	Lower	Upper
56	100		
69	208.3	27.8	41.8#
84	150.4	74.2	111.4#





#32

1,1,1-Trichloroethane

Concen: 0.221 ug/l

RT: 5.317 min Scan# 11

Delta R.T. 0.009 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

Instrument :

MSVOA_U

ClientSampleId :

8BR-20230524

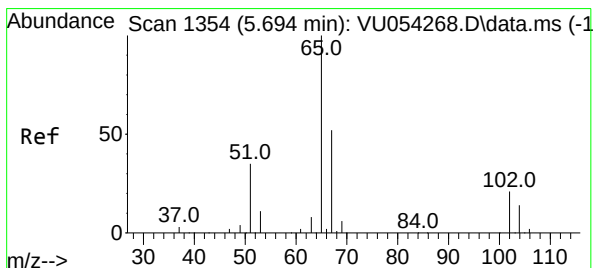
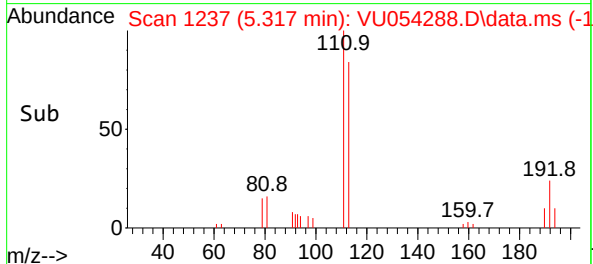
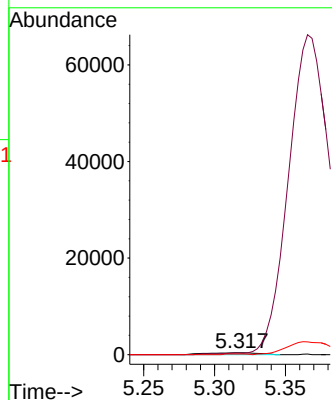
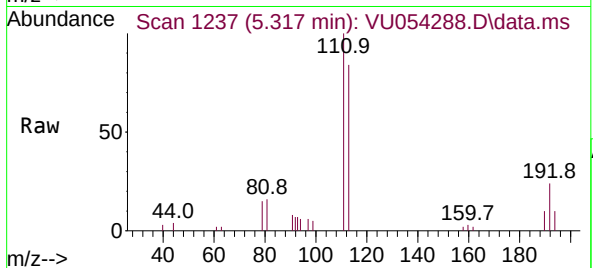
Tgt Ion: 97 Resp: 1049

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

61 0.0 35.1 52.7#



#33

1,2-Dichloroethane-d4

Concen: 50.383 ug/l

RT: 5.694 min Scan# 1354

Delta R.T. -0.000 min

Lab File: VU054288.D

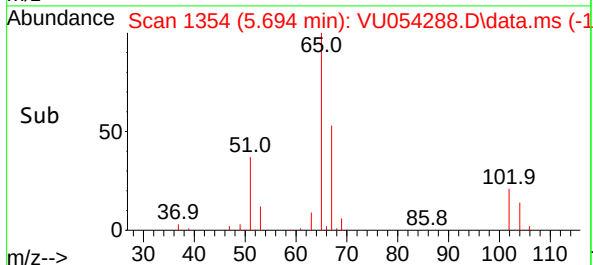
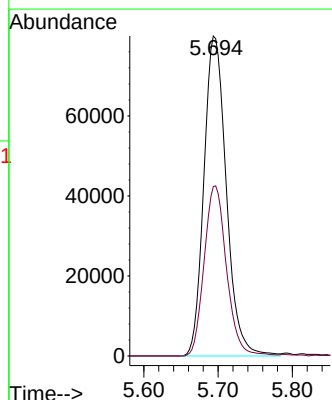
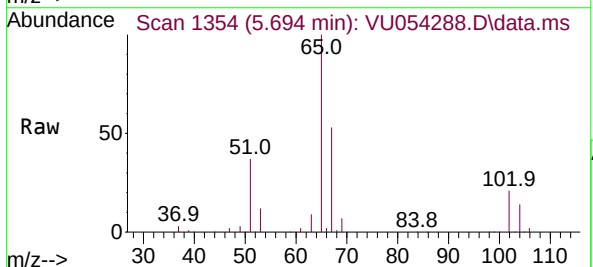
Acq: 26 May 2023 16:13

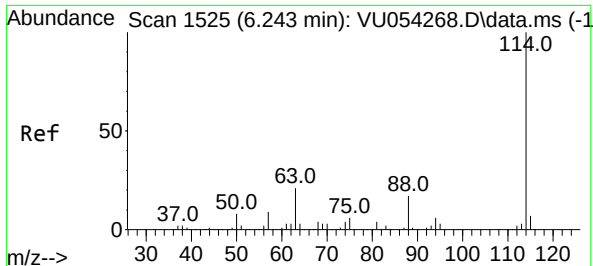
Tgt Ion: 65 Resp: 167762

Ion Ratio Lower Upper

65 100

67 53.0 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: VU054288.D

Acq: 26 May 2023 16:13

Instrument :

MSVOA_U

ClientSampleId :

8BR-20230524

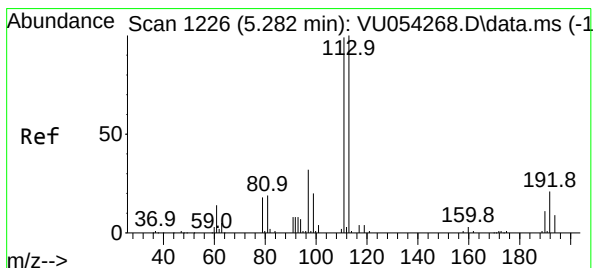
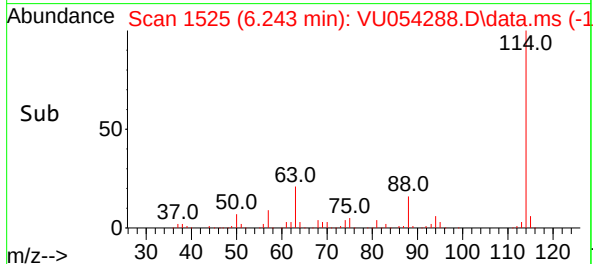
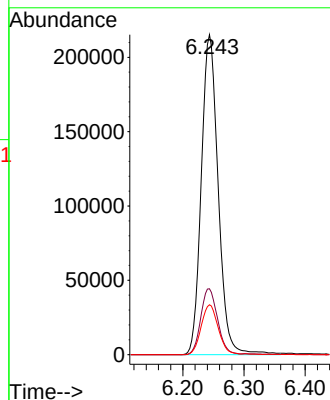
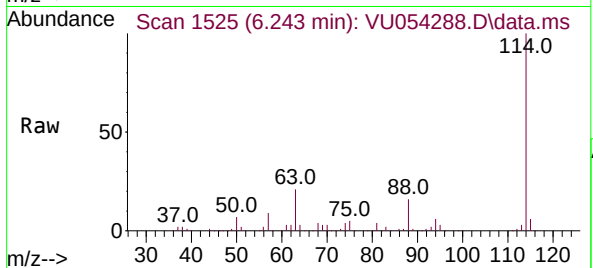
Tgt Ion:114 Resp: 413408

Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.8

88 15.6 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.243 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

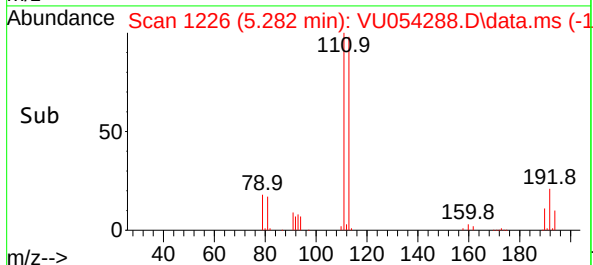
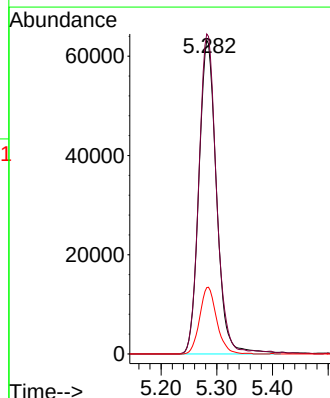
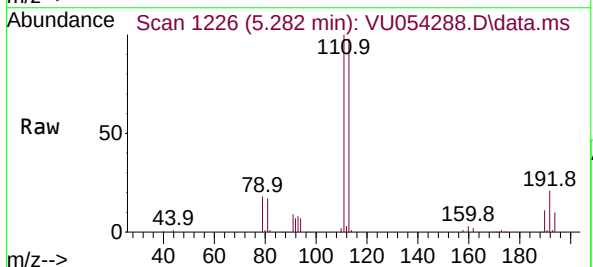
Tgt Ion:113 Resp: 139084

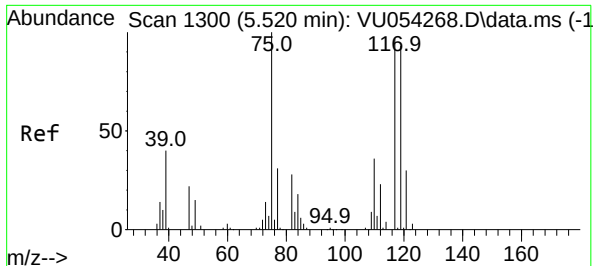
Ion Ratio Lower Upper

113 100

111 100.9 82.1 123.1

192 20.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.643 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

Instrument :

MSVOA_U

ClientSampleId :

8BR-20230524

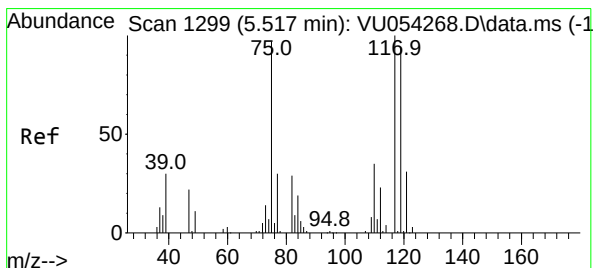
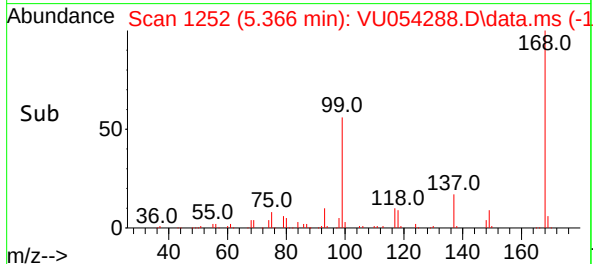
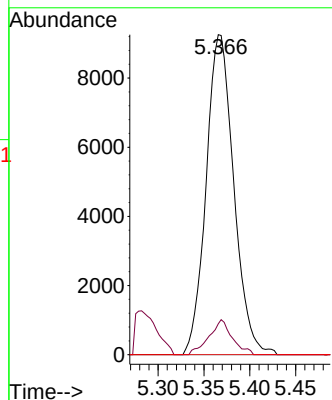
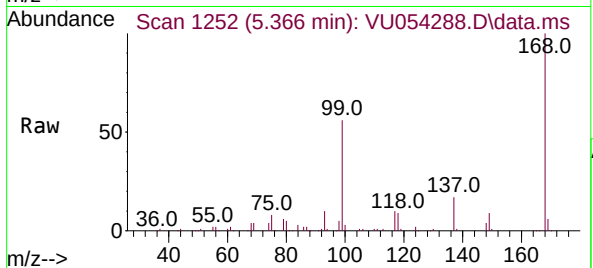
Tgt Ion: 75 Resp: 19413

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.749 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

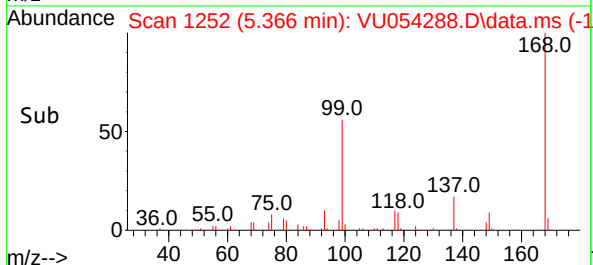
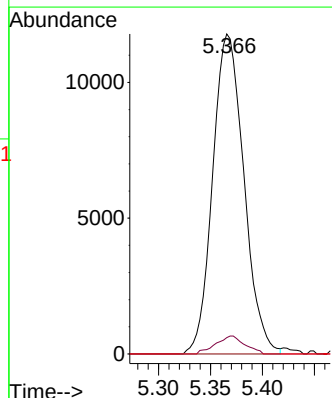
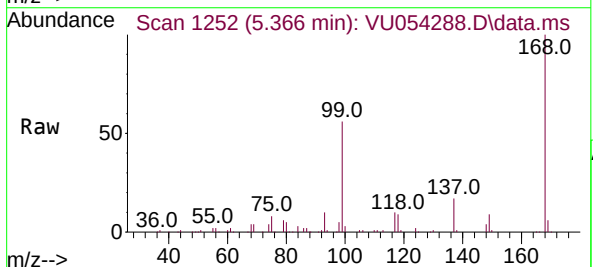
Tgt Ion: 117 Resp: 24607

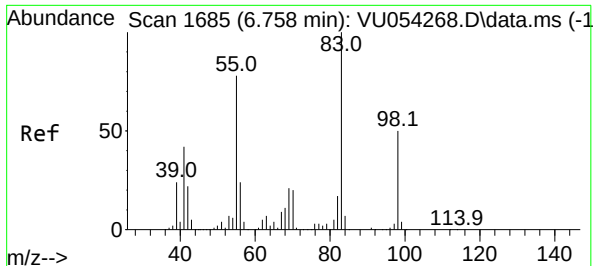
Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 1.769 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. -0.222 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

Instrument :

MSVOA_U

ClientSampleId :

8BR-20230524

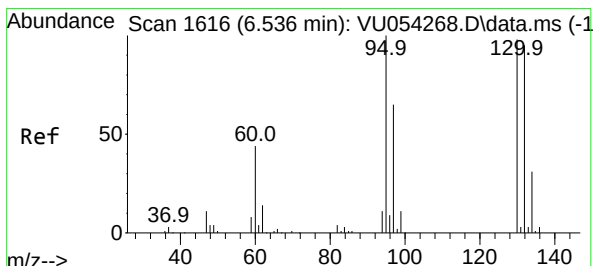
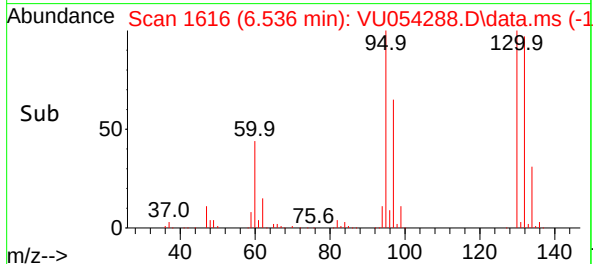
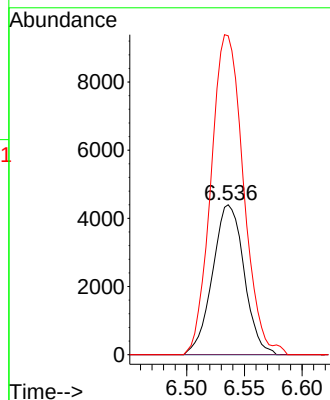
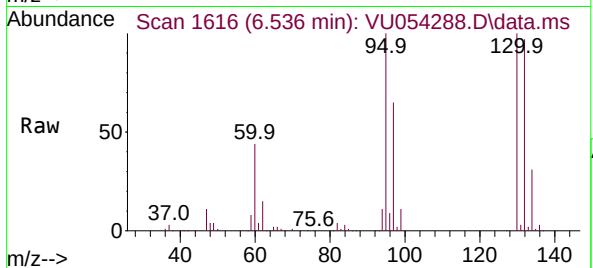
Tgt Ion: 83 Resp: 8377

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 212.6 37.3 55.9#



#44

Trichloroethene

Concen: 220.378 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. -0.000 min

Lab File: VU054288.D

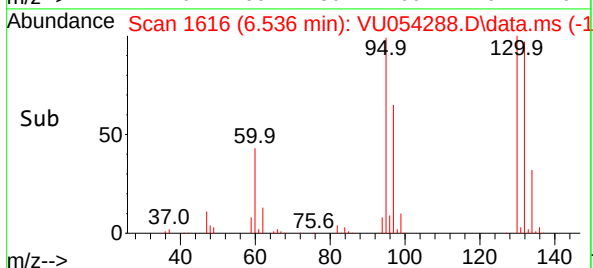
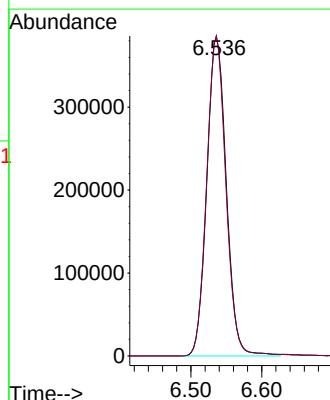
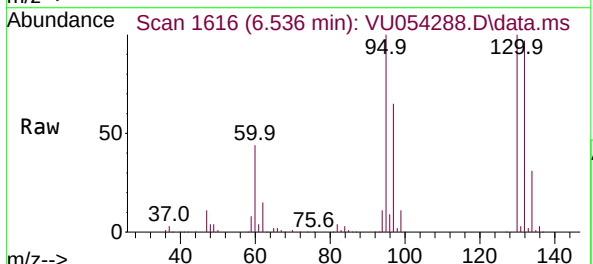
Acq: 26 May 2023 16:13

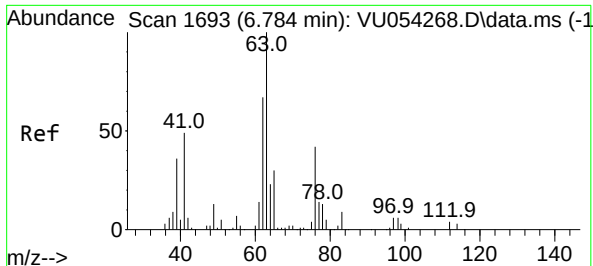
Tgt Ion:130 Resp: 734769

Ion Ratio Lower Upper

130 100

95 100.1 0.0 184.6





#45

1,2-Dichloropropane

Concen: 0.753 ug/l

RT: 6.529 min Scan# 1

Delta R.T. -0.255 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

Instrument :

MSVOA_U

ClientSampleId :

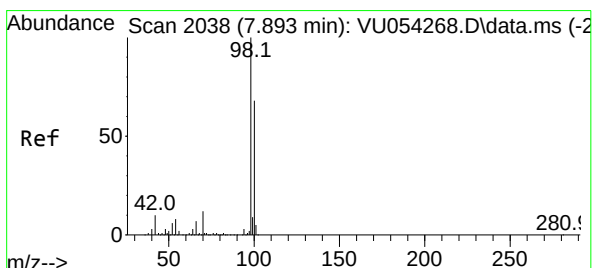
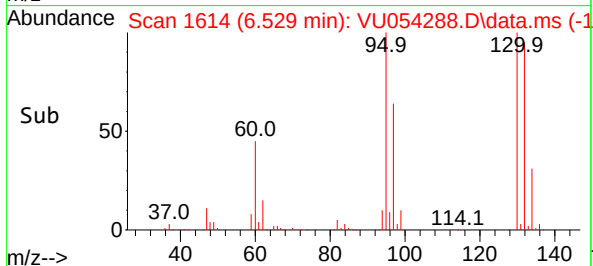
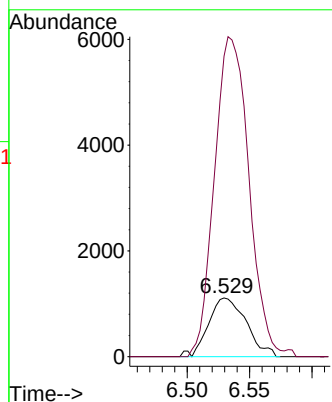
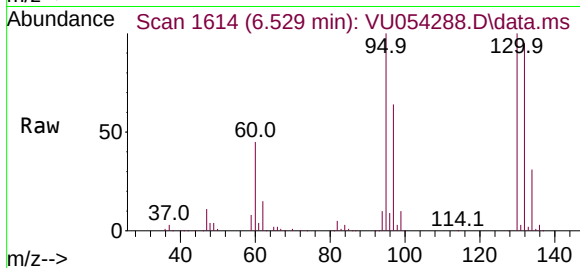
8BR-20230524

Tgt Ion: 63 Resp: 2342

Ion Ratio Lower Upper

63 100

65 512.4 25.0 37.4#



#50

Toluene-d8

Concen: 49.248 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054288.D

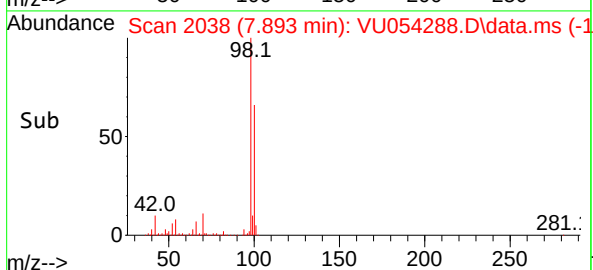
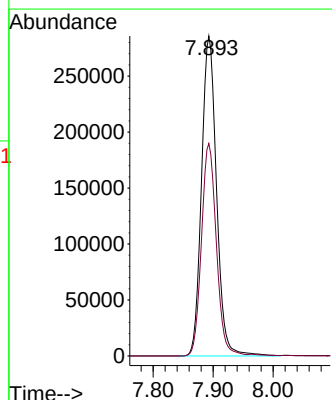
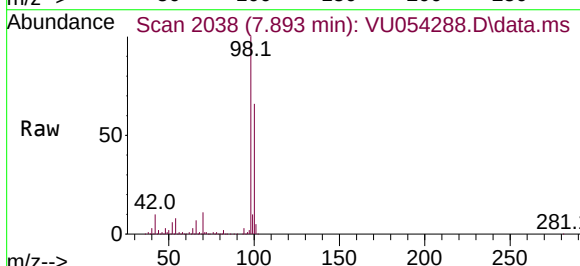
Acq: 26 May 2023 16:13

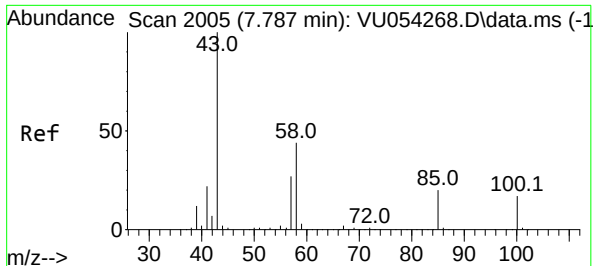
Tgt Ion: 98 Resp: 498707

Ion Ratio Lower Upper

98 100

100 65.8 51.7 77.5

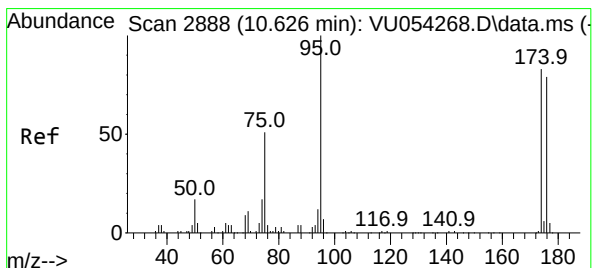
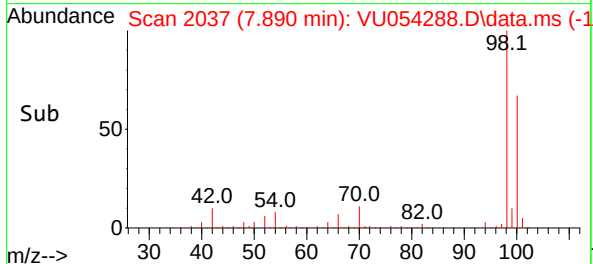
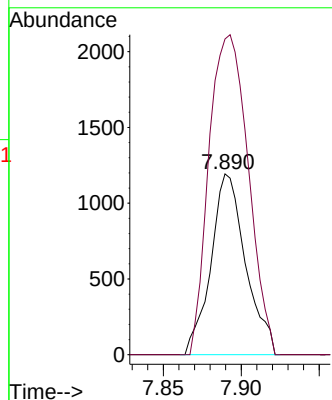
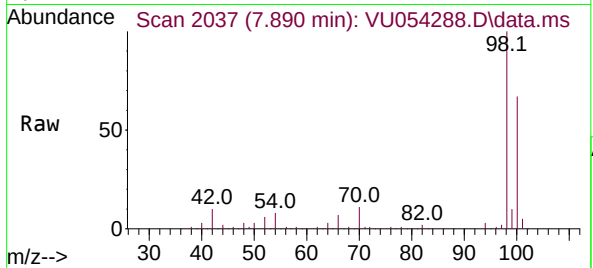




#51
4-Methyl-2-Pentanone
Concen: 0.394 ug/l
RT: 7.890 min Scan# 2005
Delta R.T. 0.103 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

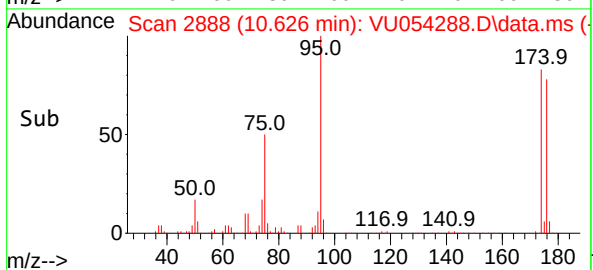
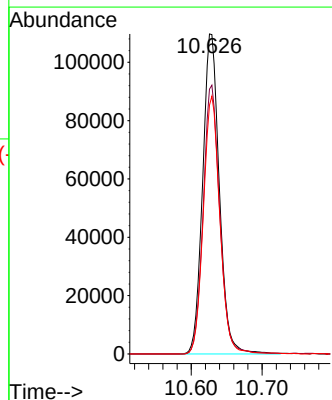
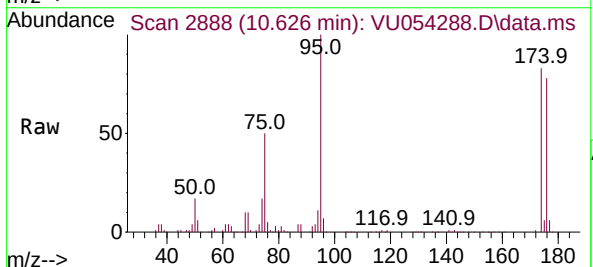
Instrument :
MSVOA_U
ClientSampleId :
8BR-20230524

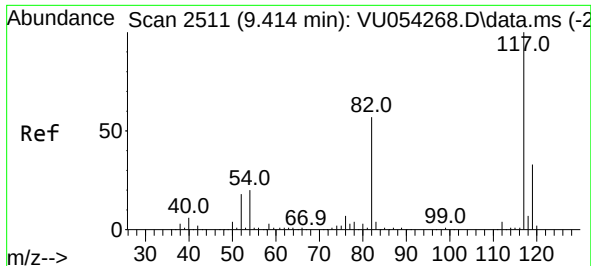
Tgt Ion: 43 Resp: 1849
Ion Ratio Lower Upper
43 100
58 200.1 34.7 52.1#



#62
4-Bromofluorobenzene
Concen: 45.707 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.000 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion: 95 Resp: 179464
Ion Ratio Lower Upper
95 100
174 83.2 0.0 182.0
176 79.8 0.0 177.8

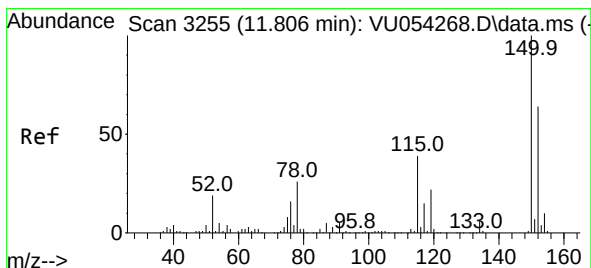
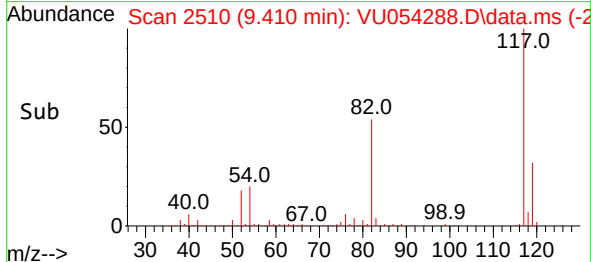
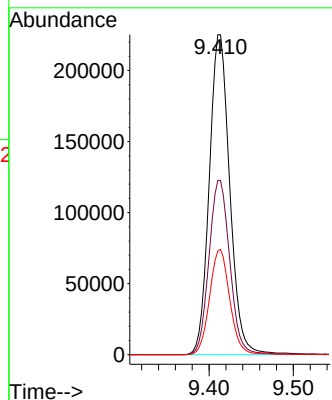
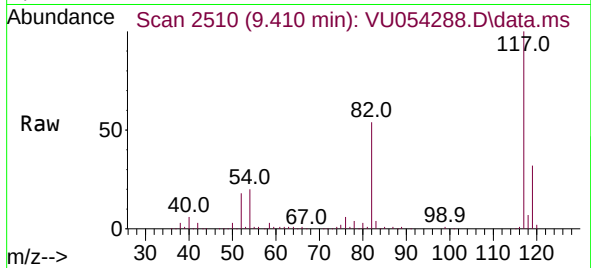




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.410 min Scan# 21
Delta R.T. -0.004 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

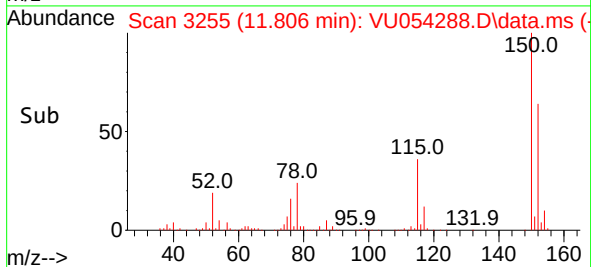
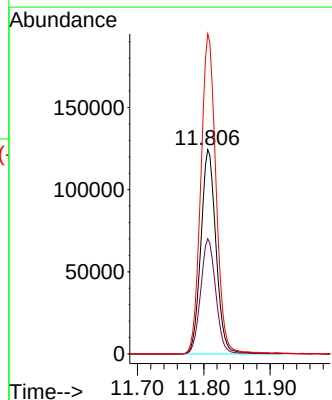
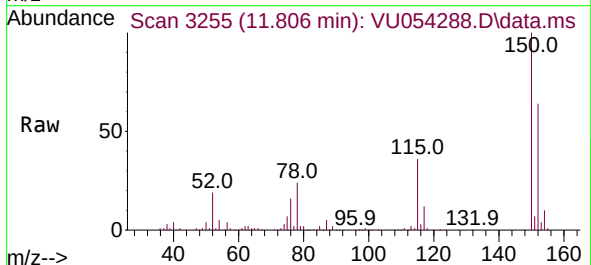
Instrument :
MSVOA_U
ClientSampleId :
8BR-20230524

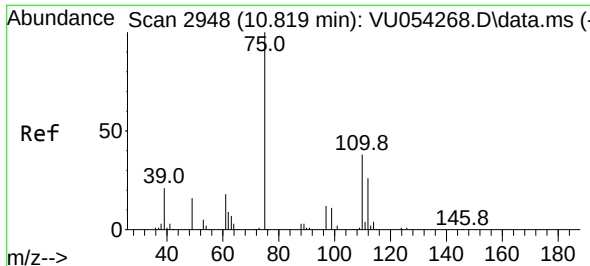
Tgt Ion:117 Resp: 380568
Ion Ratio Lower Upper
117 100
82 54.5 41.7 62.5
119 32.4 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion:152 Resp: 197607
Ion Ratio Lower Upper
152 100
115 56.4 37.0 110.9
150 157.0 0.0 342.2

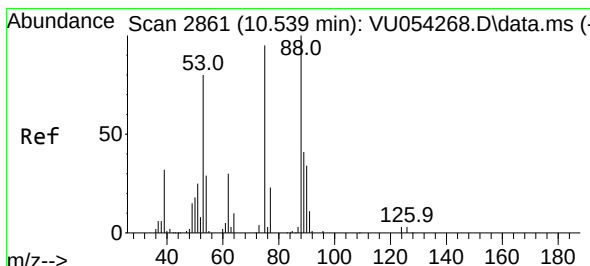
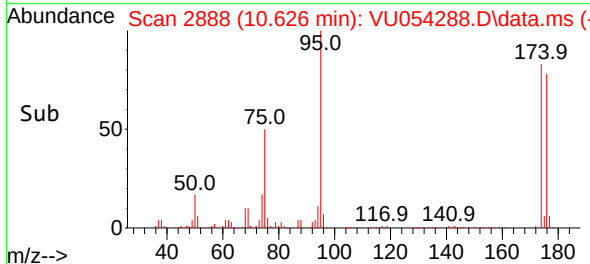
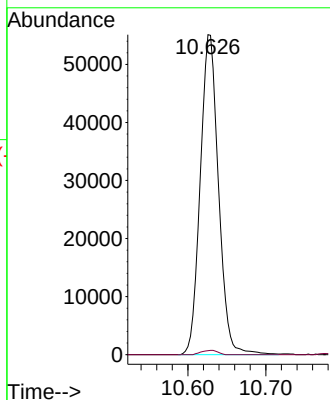
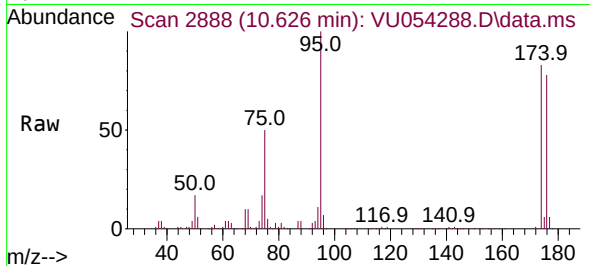




#76
1,2,3-Trichloropropane
Concen: 15.565 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

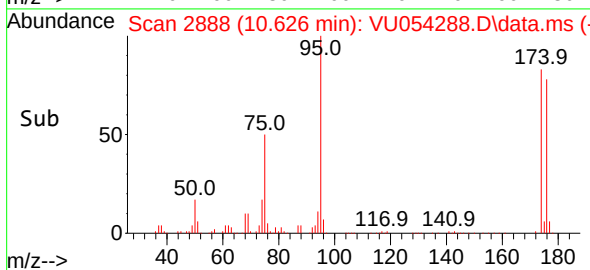
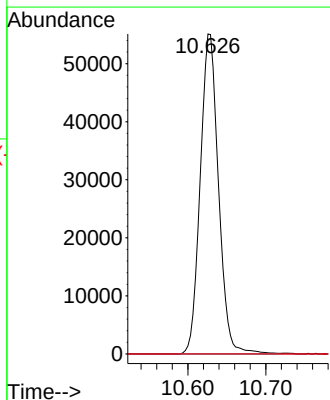
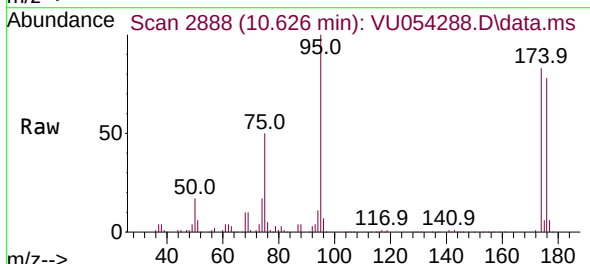
Instrument :
MSVOA_U
ClientSampleId :
8BR-20230524

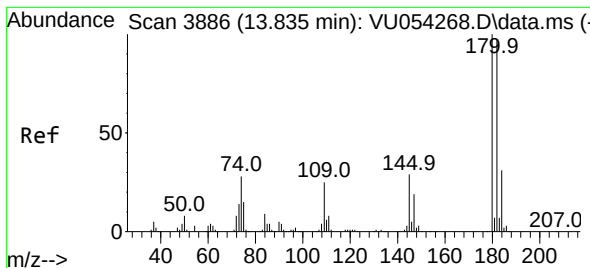
Tgt Ion: 75 Resp: 89769
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.271 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054288.D
Acq: 26 May 2023 16:13

Tgt Ion: 75 Resp: 89769
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: 1.694 ug/l

RT: 13.857 min Scan# 3893

Delta R.T. 0.022 min

Lab File: VU054288.D

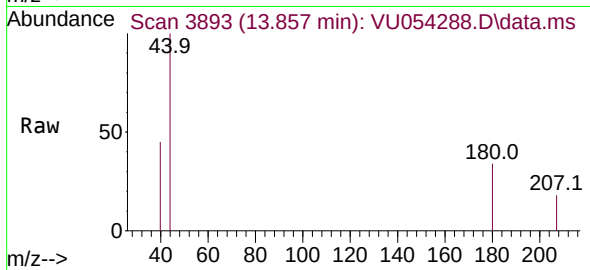
Acq: 26 May 2023 16:13

Instrument :

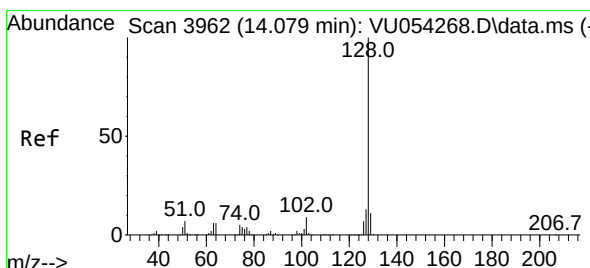
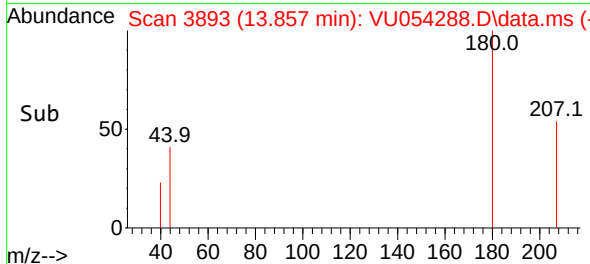
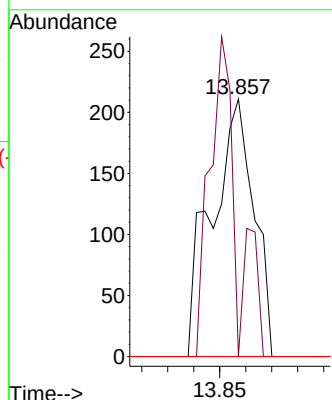
MSVOA_U

ClientSampleId :

8BR-20230524



Tgt Ion:180	Resp:	238
Ion Ratio	Lower	Upper
180	100	
182	80.3	47.9 143.6
145	0.0	14.0 41.9#



#95

Naphthalene

Concen: 2.033 ug/l

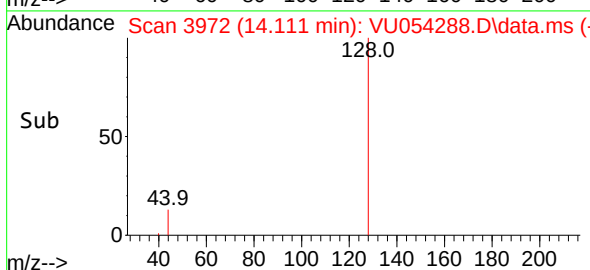
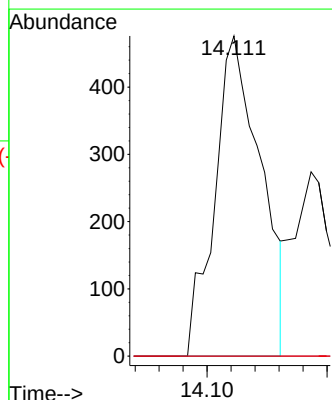
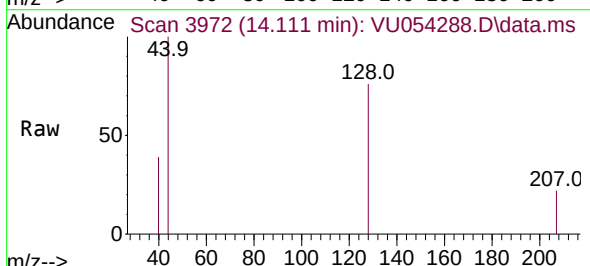
RT: 14.111 min Scan# 3972

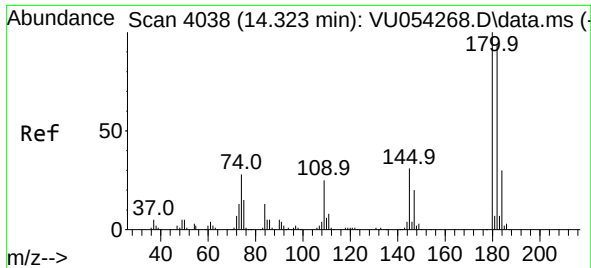
Delta R.T. 0.032 min

Lab File: VU054288.D

Acq: 26 May 2023 16:13

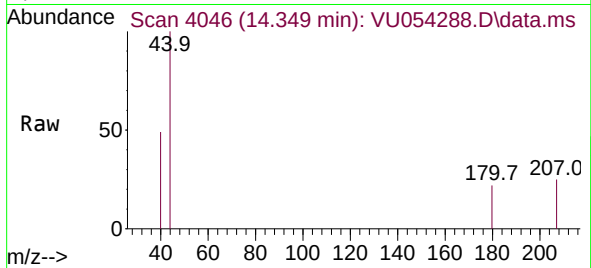
Tgt Ion:128	Resp:	637
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.3 15.5#
129	0.0	8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.286 ug/l
 RT: 14.349 min Scan# 4046
 Delta R.T. 0.026 min
 Lab File: VU054288.D
 Acq: 26 May 2023 16:13

Instrument :
 MSVOA_U
 ClientSampleId :
 8BR-20230524



Tgt Ion:180 Resp: 144
 Ion Ratio Lower Upper
 180 100
 182 93.1 48.4 145.0
 145 0.0 14.8 44.4#

