

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054321.D
 Acq On : 30 May 2023 18:08
 Operator : JC/MD
 Sample : 02936-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

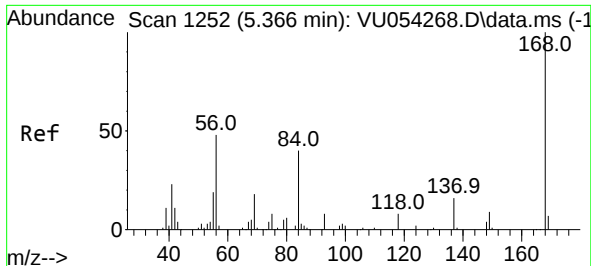
Instrument :
 MSVOA_U
 ClientSampleId :
 54BR-20230524

Quant Time: May 31 06:29:57 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	244972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	405584	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	379852	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	185250	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.693	65	166392	51.814	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.620%	
35) Dibromofluoromethane	5.282	113	139186	53.290	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.580%	
50) Toluene-d8	7.893	98	506390	50.972	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.940%	
62) 4-Bromofluorobenzene	10.629	95	170670	44.305	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 88.620%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.600	62	1160	0.340	ug/l #	60
9) 1,1,2-Trichlorotrifluo...	2.575	101	1489	0.585	ug/l	94
10) Methyl Iodide	2.719	142	70	2.353	ug/l #	43
16) Acetone	2.629	43	7880	4.281	ug/l	99
20) Methylene Chloride	3.044	84	978	0.295	ug/l #	82
25) 2-Butanone	4.735	43	629	0.258	ug/l #	86
27) cis-1,2-Dichloroethene	4.665	96	14632	4.662	ug/l	96
29) Tetrahydrofuran	4.812	42	676	0.441	ug/l #	26
31) Cyclohexane	5.359	56	4550	1.003	ug/l #	1
36) 1,1-Dichloropropene	5.365	75	18861	4.598	ug/l #	48
37) Ethyl Acetate	4.809	43	9673	1.935	ug/l #	88
38) Carbon Tetrachloride	5.369	117	23502	5.597	ug/l #	16
44) Trichloroethene	6.539	130	44747	13.680	ug/l	89
60) Dibromochloromethane	8.552	129	928	0.295	ug/l #	11
64) Tetrachloroethene	8.549	164	1111	0.389	ug/l #	79
76) 1,2,3-Trichloropropane	10.626	75	86075	15.920	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	86075	60.623	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.860	180	224	1.694	ug/l #	45
95) Naphthalene	14.121	128	465	2.024	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.336	180	157	1.291	ug/l #	78

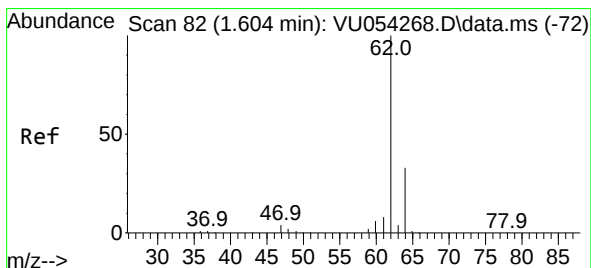
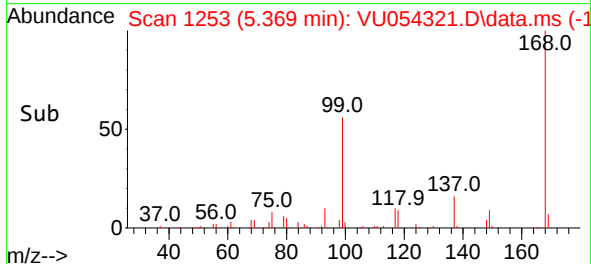
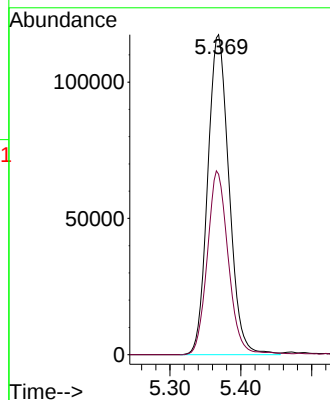
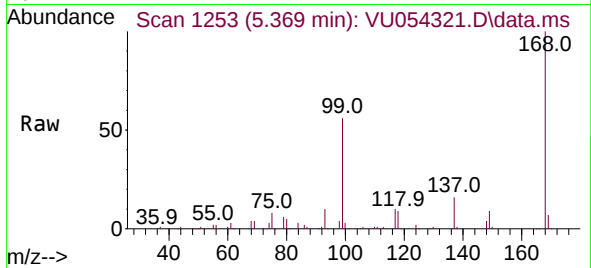
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

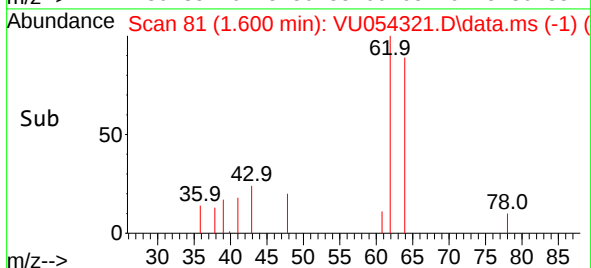
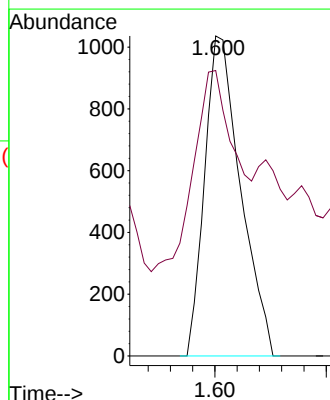
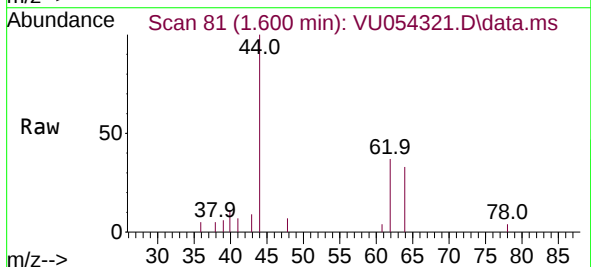
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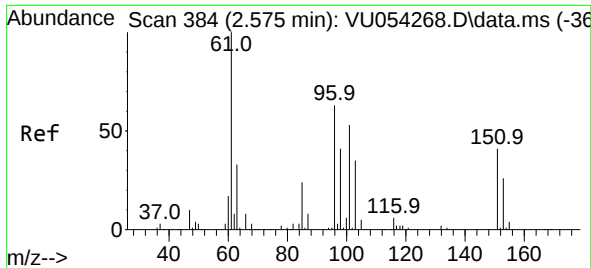
Tgt Ion:168 Resp: 244972
Ion Ratio Lower Upper
168 100
99 56.4 39.3 58.9



#4
Vinyl Chloride
Concen: 0.340 ug/l
RT: 1.600 min Scan# 81
Delta R.T. -0.004 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion: 62 Resp: 1160
Ion Ratio Lower Upper
62 100
64 54.0 25.3 37.9#

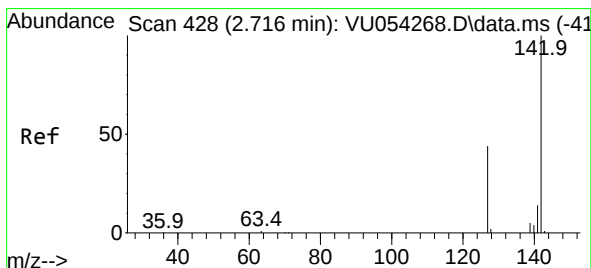
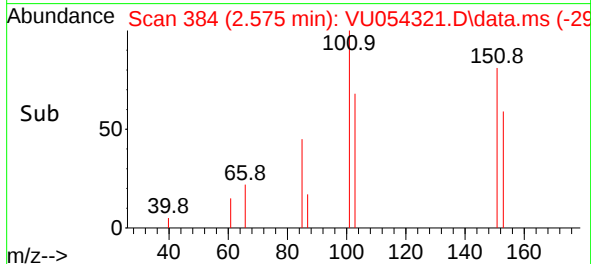
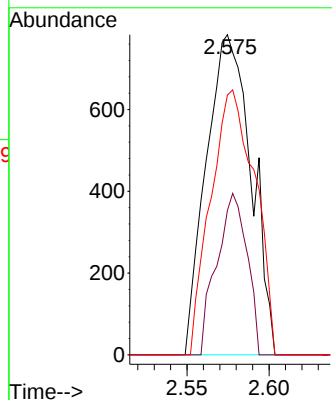
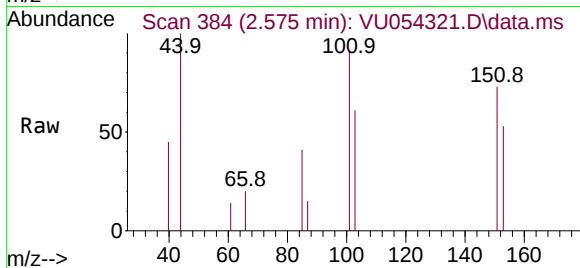




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.585 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

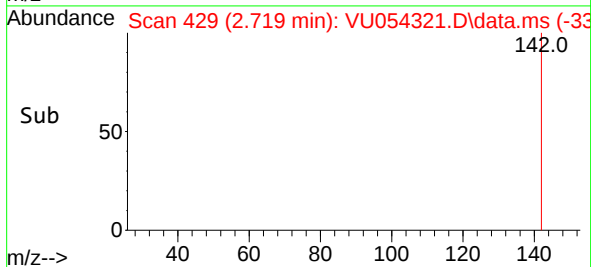
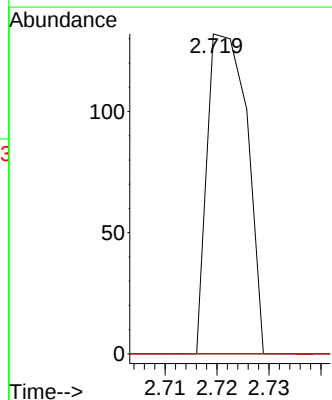
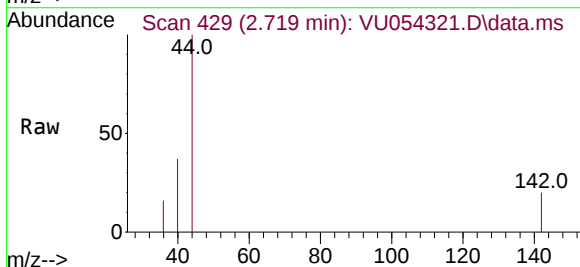
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

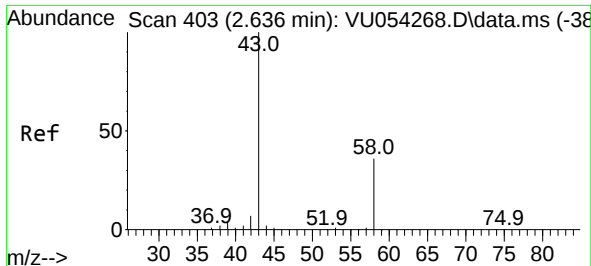
Tgt Ion:	101	Resp:	1489
Ion	Ratio	Lower	Upper
101	100		
85	34.0	33.9	50.9
151	81.7	64.0	96.0



#10
Methyl Iodide
Concen: 2.353 ug/l
RT: 2.719 min Scan# 429
Delta R.T. 0.003 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion:	142	Resp:	70
Ion	Ratio	Lower	Upper
142	100		
127	0.0	32.5	48.7#
141	0.0	11.4	17.0#

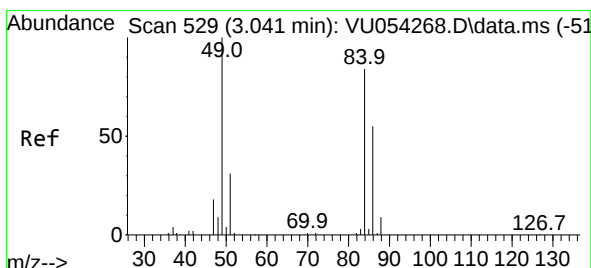
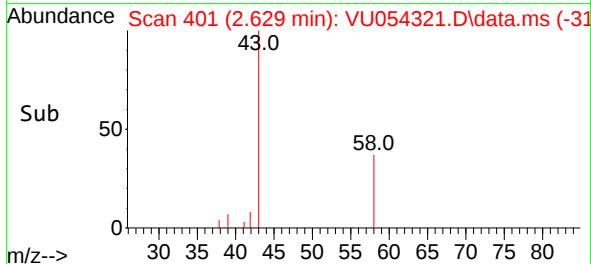
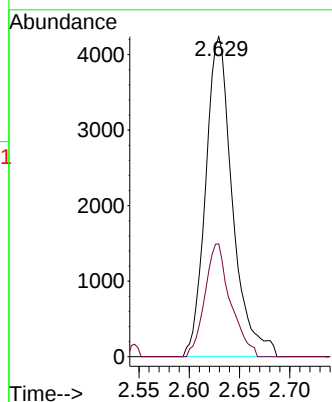
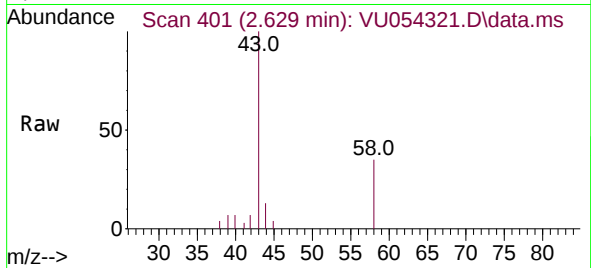




#16
Acetone
Concen: 4.281 ug/l
RT: 2.629 min Scan# 40
Delta R.T. -0.007 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

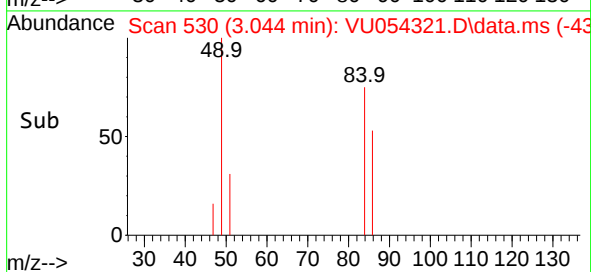
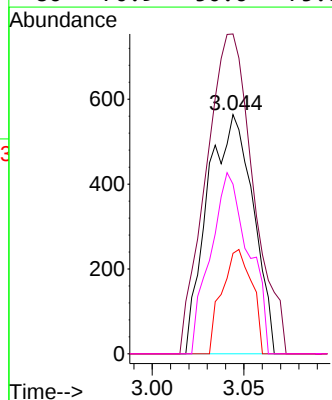
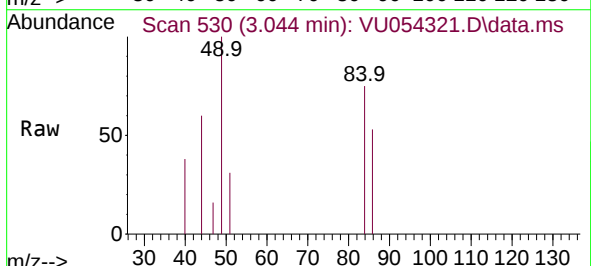
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

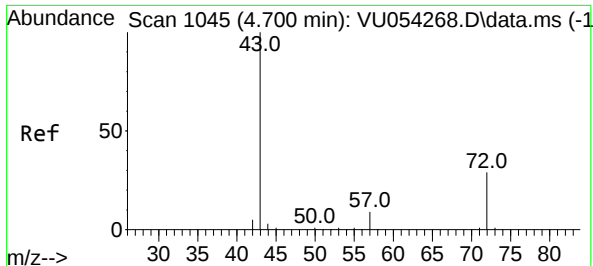
Tgt Ion: 43 Resp: 7880
Ion Ratio Lower Upper
43 100
58 35.2 27.5 41.3



#20
Methylene Chloride
Concen: 0.295 ug/l
RT: 3.044 min Scan# 530
Delta R.T. 0.003 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion: 84 Resp: 978
Ion Ratio Lower Upper
84 100
49 133.7 86.6 129.8#
51 42.0 26.6 40.0#
86 70.9 50.6 75.8





#25

2-Butanone

Concen: 0.258 ug/l

RT: 4.735 min Scan# 1056

Delta R.T. 0.035 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

Instrument :

MSVOA_U

ClientSampleId :

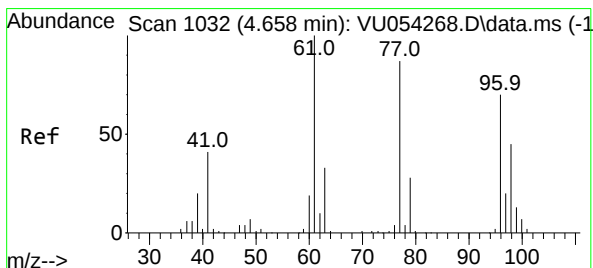
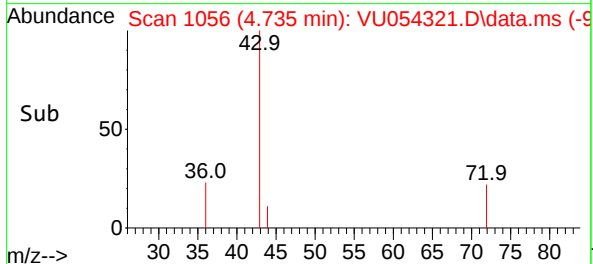
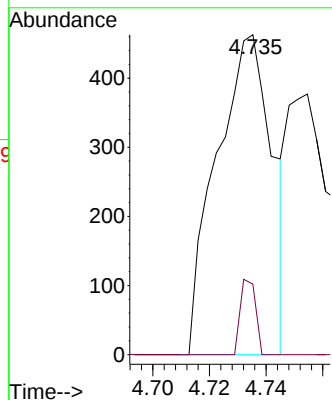
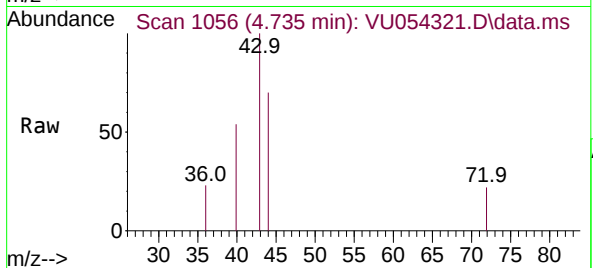
54BR-20230524

Tgt Ion: 43 Resp: 629

Ion Ratio Lower Upper

43 100

72 22.0 23.8 35.6#



#27

cis-1,2-Dichloroethene

Concen: 4.662 ug/l

RT: 4.665 min Scan# 1034

Delta R.T. 0.007 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

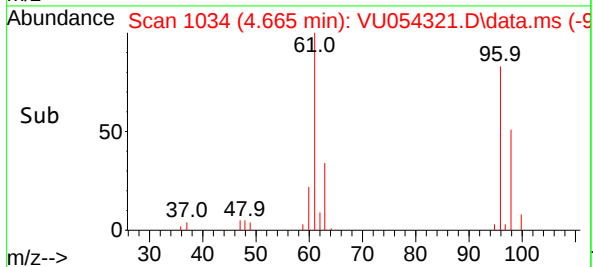
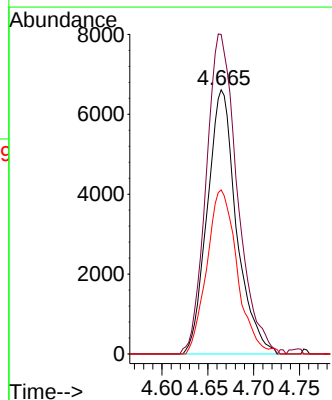
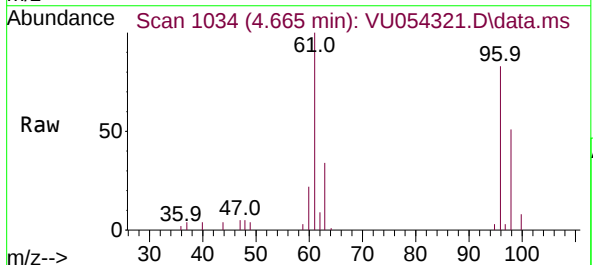
Tgt Ion: 96 Resp: 14632

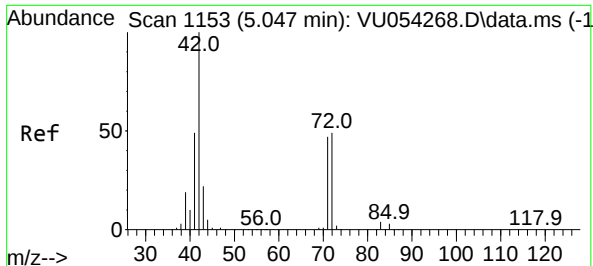
Ion Ratio Lower Upper

96 100

61 129.2 0.0 271.6

98 64.0 0.0 128.2





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 4.812 min Scan# 1080

Delta R.T. -0.235 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

Instrument :

MSVOA_U

ClientSampleId :

54BR-20230524

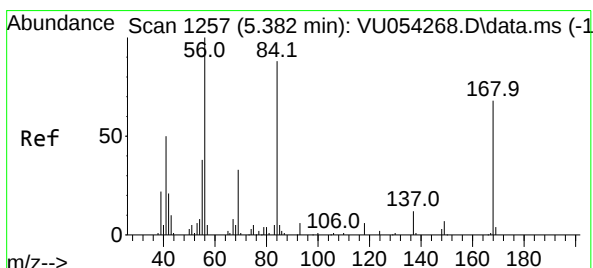
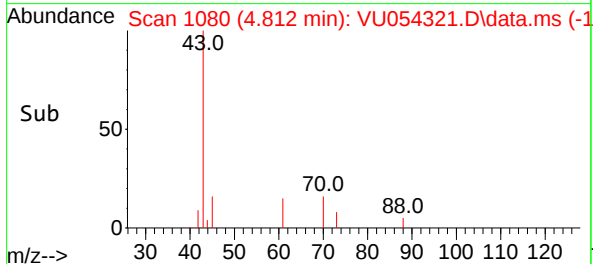
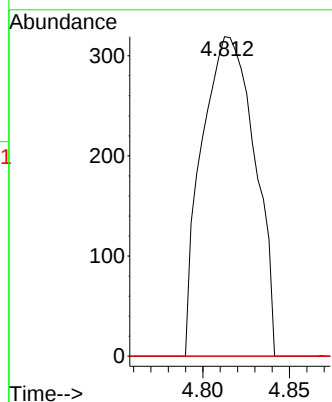
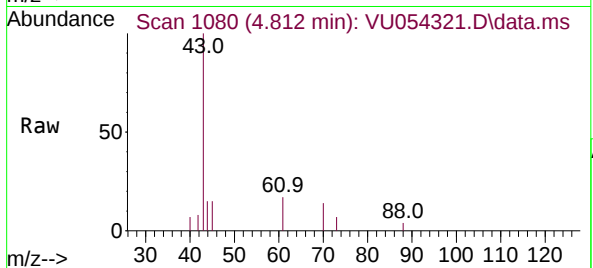
Tgt Ion: 42 Resp: 676

Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

71 0.0 40.3 60.5#



#31

Cyclohexane

Concen: 1.003 ug/l

RT: 5.359 min Scan# 1250

Delta R.T. -0.023 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

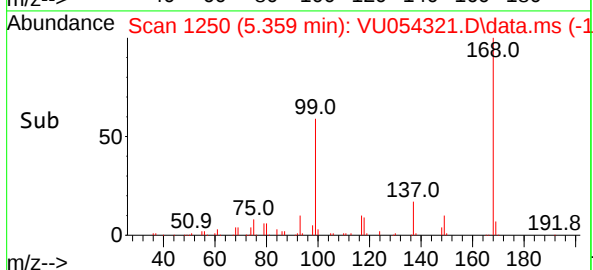
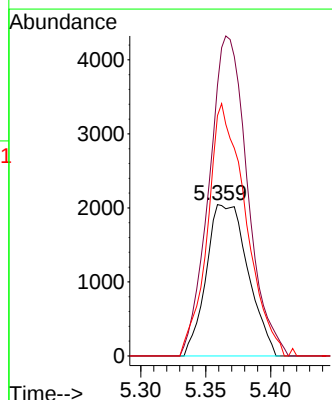
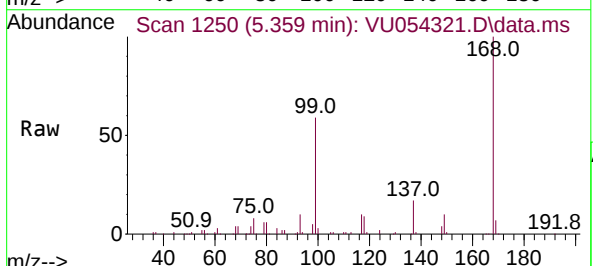
Tgt Ion: 56 Resp: 4550

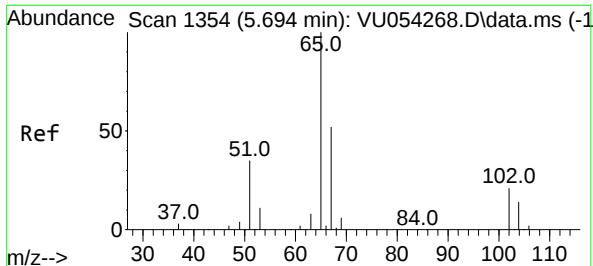
Ion Ratio Lower Upper

56 100

69 179.0 27.8 41.8#

84 158.8 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 51.814 ug/l

RT: 5.693 min Scan# 11

Delta R.T. -0.001 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

Instrument :

MSVOA_U

ClientSampleId :

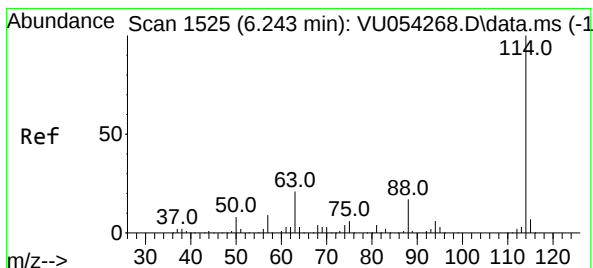
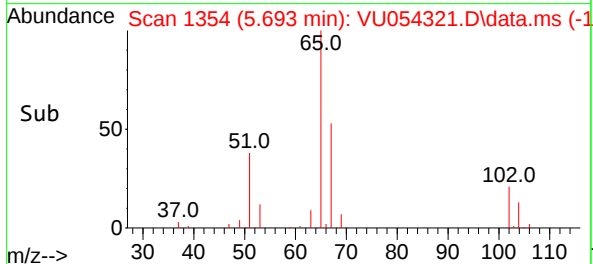
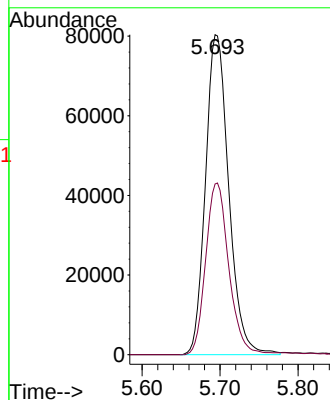
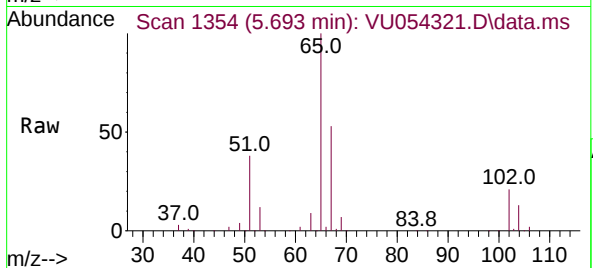
54BR-20230524

Tgt Ion: 65 Resp: 166392

Ion Ratio Lower Upper

65 100

67 53.4 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

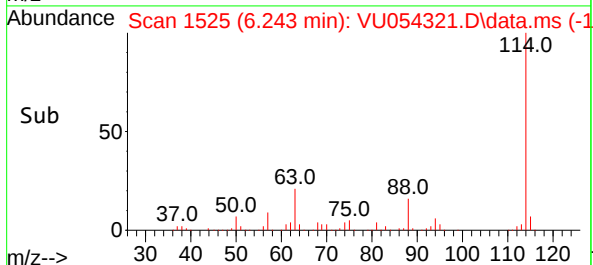
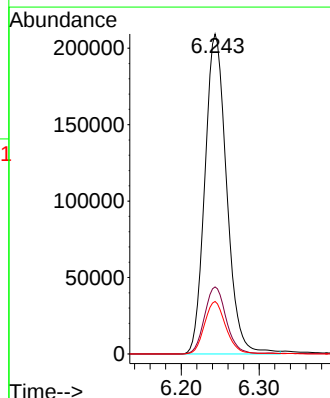
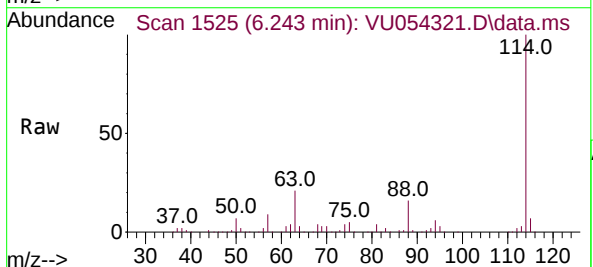
Tgt Ion: 114 Resp: 405584

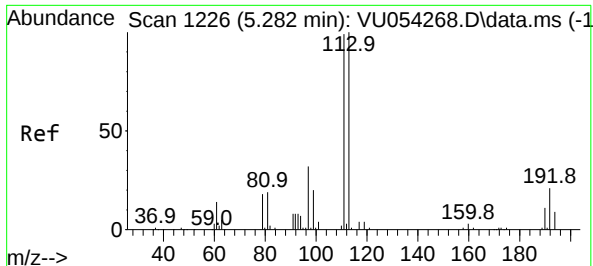
Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 16.4 0.0 29.2

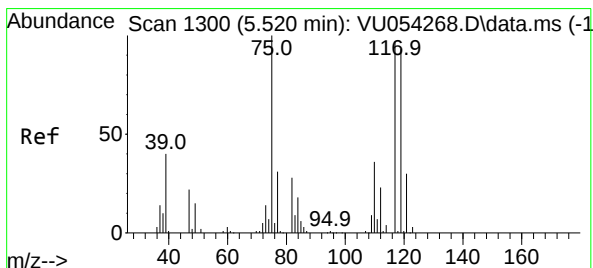
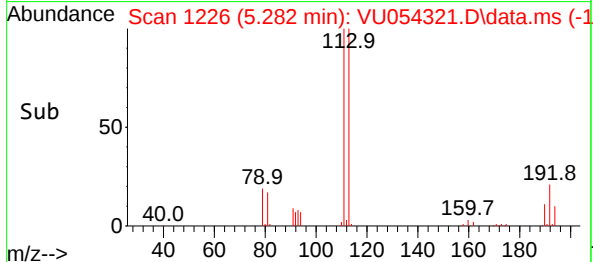
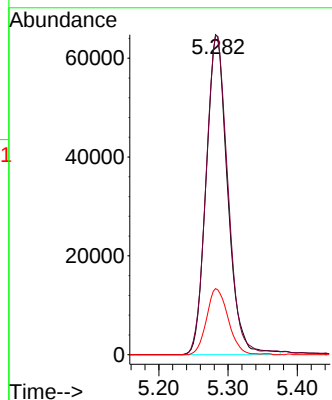
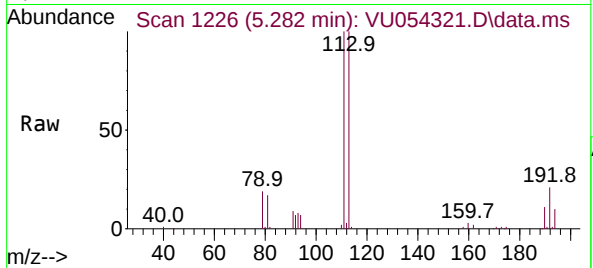




#35
Dibromofluoromethane
Concen: 53.290 ug/l
RT: 5.282 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

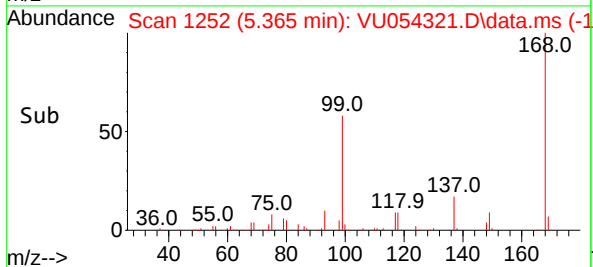
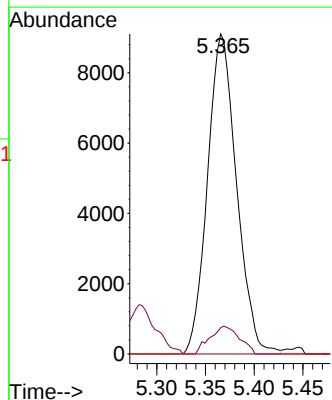
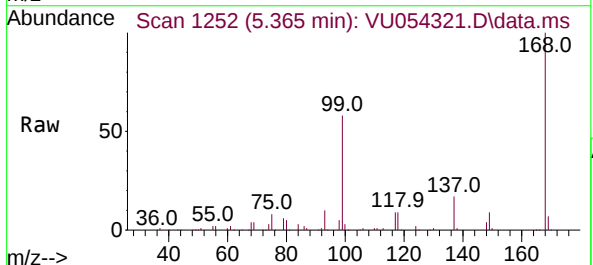
Instrument :
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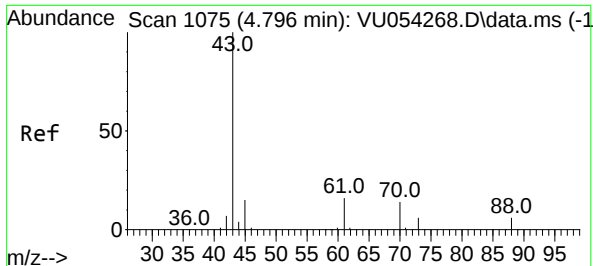
Tgt Ion:113 Resp: 139186
Ion Ratio Lower Upper
113 100
111 100.9 82.1 123.1
192 20.8 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.598 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.155 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion: 75 Resp: 18861
Ion Ratio Lower Upper
75 100
110 8.8 18.4 55.2#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.935 ug/l

RT: 4.809 min Scan# 1

Delta R.T. 0.013 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

Instrument :

MSVOA_U

ClientSampleId :

54BR-20230524

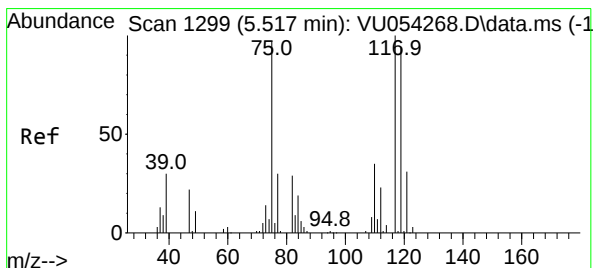
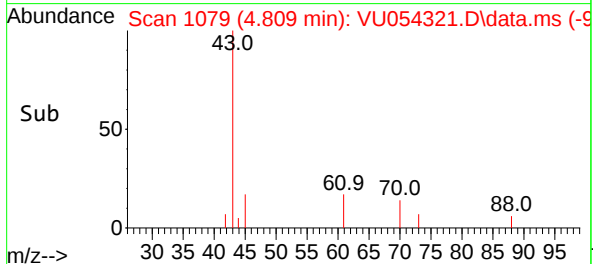
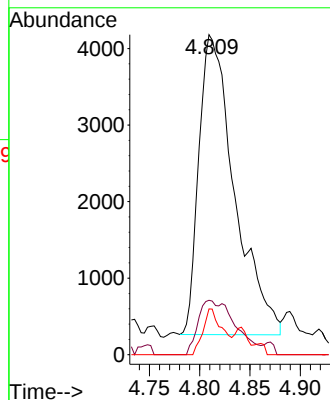
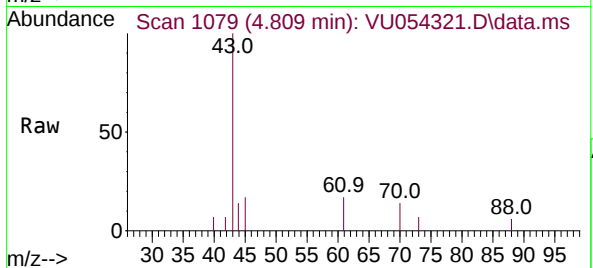
Tgt Ion: 43 Resp: 9673

Ion Ratio Lower Upper

43 100

61 19.0 9.5 14.3#

70 8.3 7.5 11.3



#38

Carbon Tetrachloride

Concen: 5.597 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054321.D

Acq: 30 May 2023 18:08

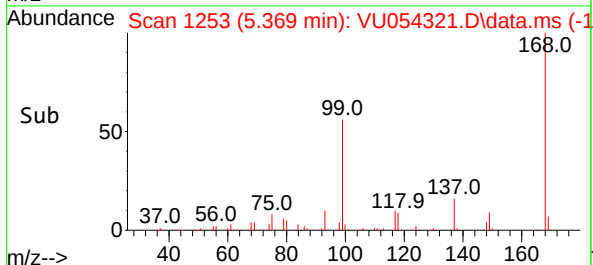
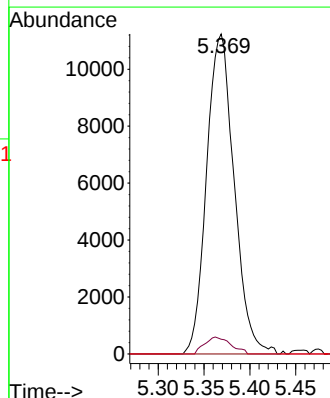
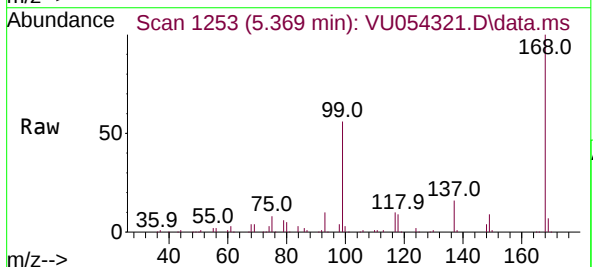
Tgt Ion: 117 Resp: 23502

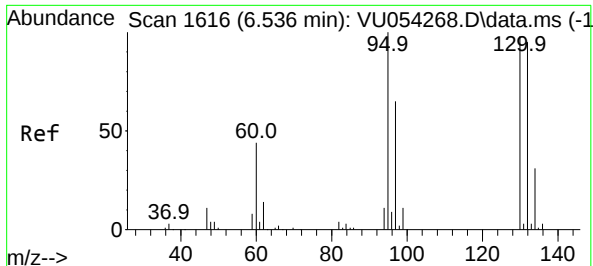
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 24.7 37.1#

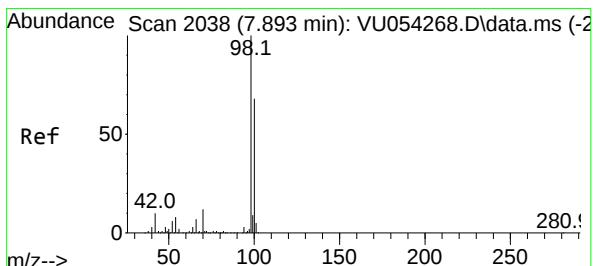
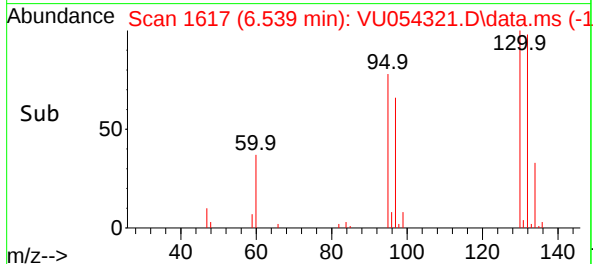
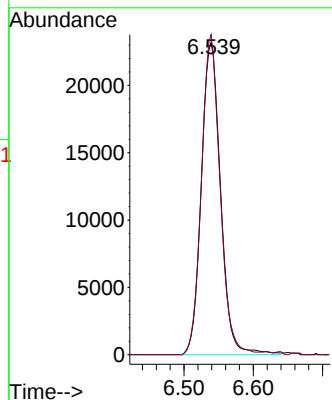
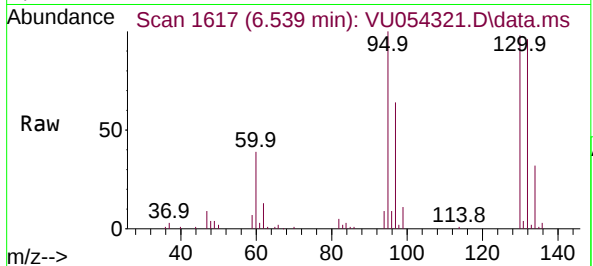




#44
Trichloroethene
Concen: 13.680 ug/l
RT: 6.539 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

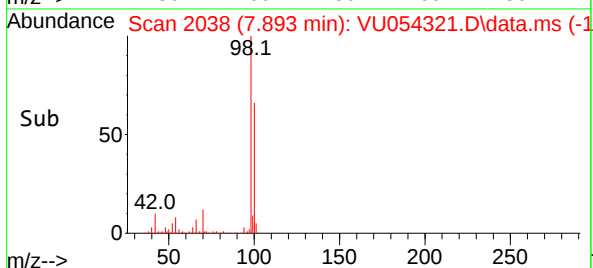
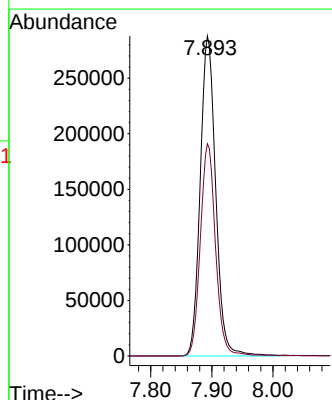
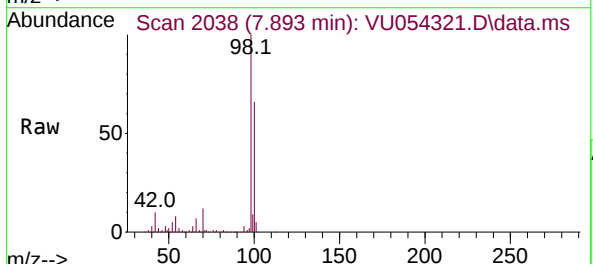
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

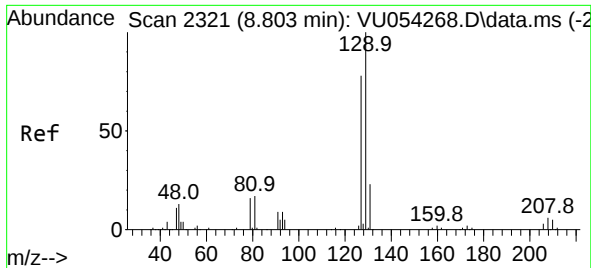
Tgt Ion:130 Resp: 44747
Ion Ratio Lower Upper
130 100
95 102.5 0.0 184.6



#50
Toluene-d8
Concen: 50.972 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion: 98 Resp: 506390
Ion Ratio Lower Upper
98 100
100 65.3 51.7 77.5

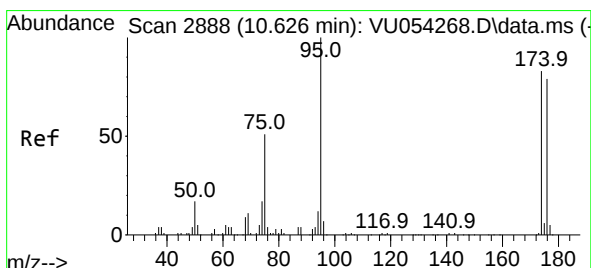
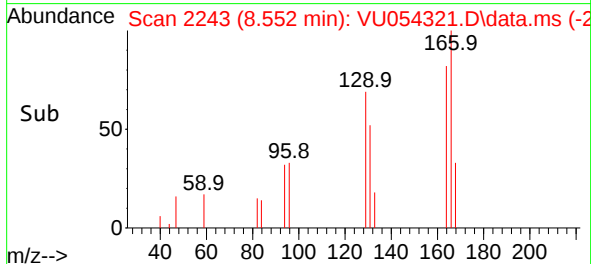
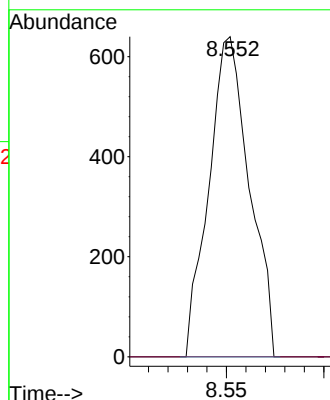
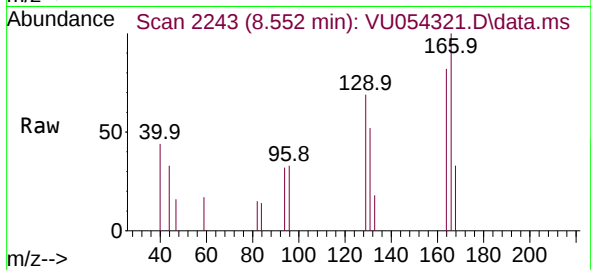




#60
Dibromochloromethane
Concen: 0.295 ug/l
RT: 8.552 min Scan# 211
Delta R.T. -0.251 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

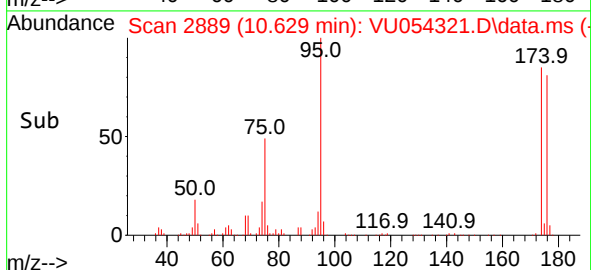
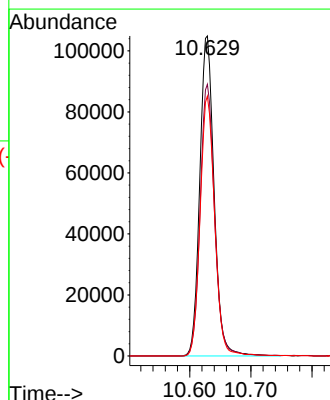
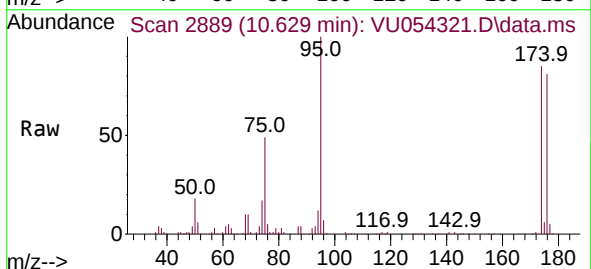
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

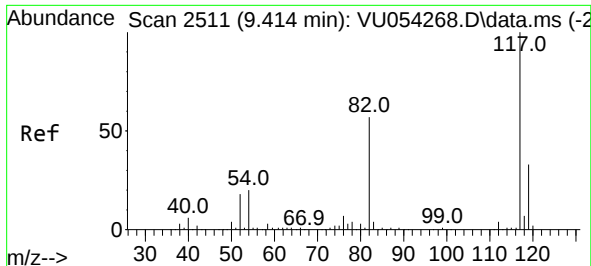
Tgt Ion:129 Resp: 928
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 44.305 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion: 95 Resp: 170670
Ion Ratio Lower Upper
95 100
174 85.4 0.0 182.0
176 82.0 0.0 177.8

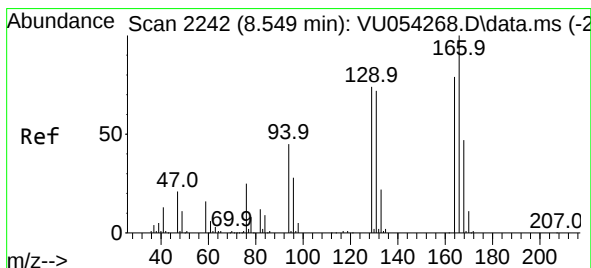
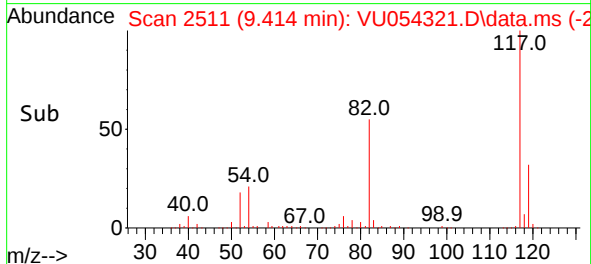
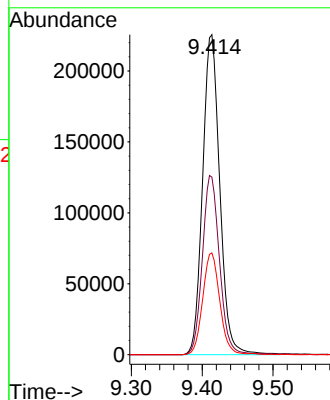
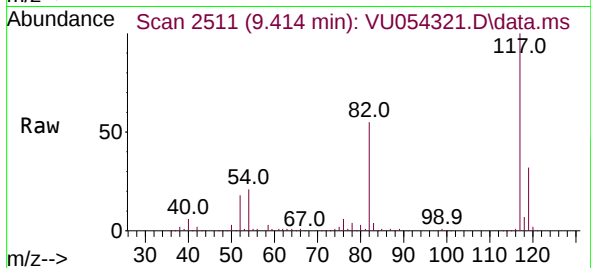




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

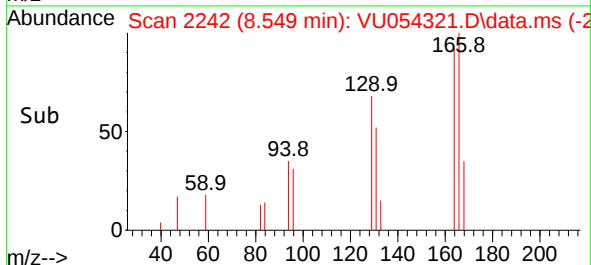
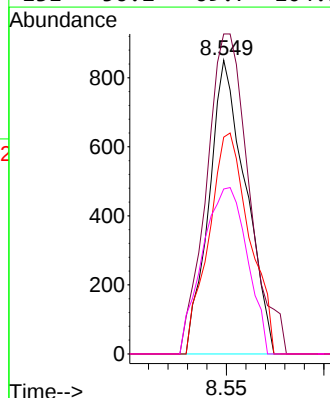
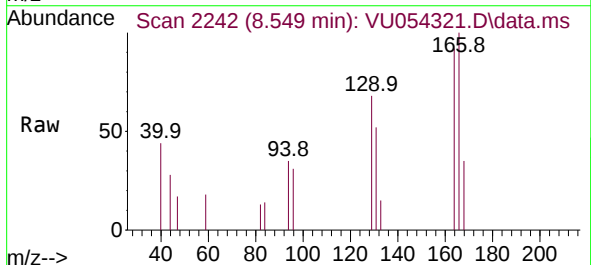
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

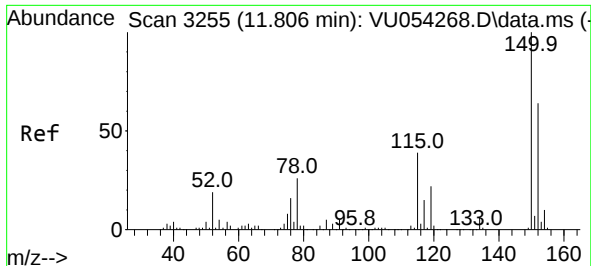
Tgt Ion:117 Resp: 379852
Ion Ratio Lower Upper
117 100
82 55.5 41.7 62.5
119 31.8 25.7 38.5



#64
Tetrachloroethene
Concen: 0.389 ug/l
RT: 8.549 min Scan# 2242
Delta R.T. -0.000 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion:164 Resp: 1111
Ion Ratio Lower Upper
164 100
166 108.9 100.0 150.0
129 73.8 72.0 108.0
131 56.2 69.7 104.5#

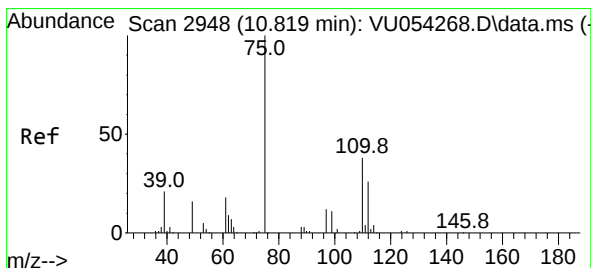
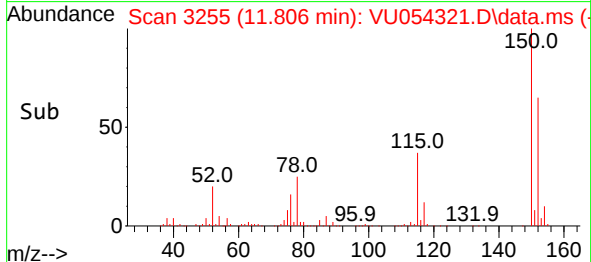
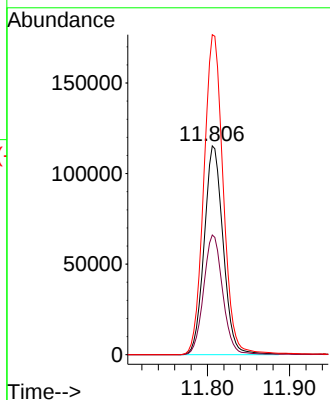
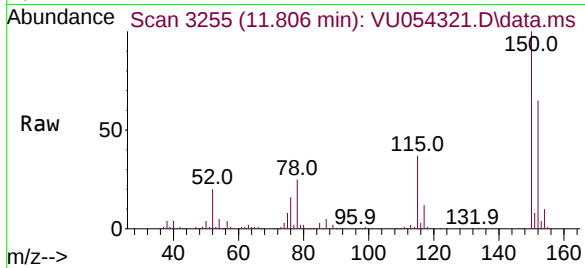




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU054321.D
 Acq: 30 May 2023 18:08

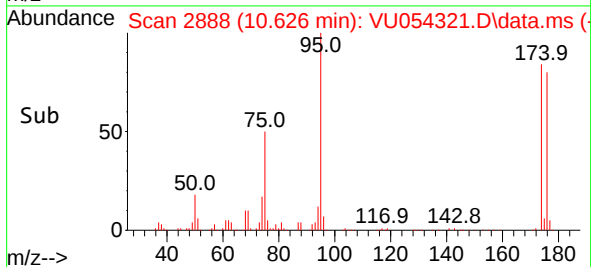
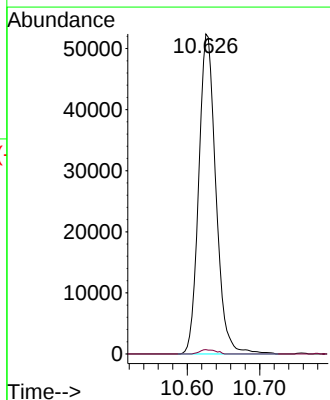
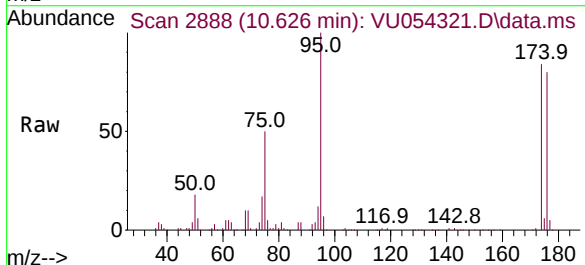
Instrument :
 MSVOA_U
 ClientSampleId :
 54BR-20230524

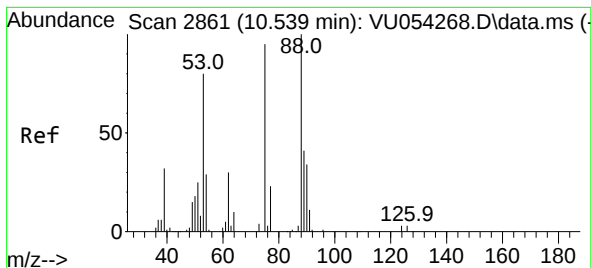
Tgt Ion:152 Resp: 185250
 Ion Ratio Lower Upper
 152 100
 115 57.8 37.0 110.9
 150 157.1 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 15.920 ug/l
 RT: 10.626 min Scan# 2888
 Delta R.T. -0.193 min
 Lab File: VU054321.D
 Acq: 30 May 2023 18:08

Tgt Ion: 75 Resp: 86075
 Ion Ratio Lower Upper
 75 100
 77 1.3 15.8 47.3#

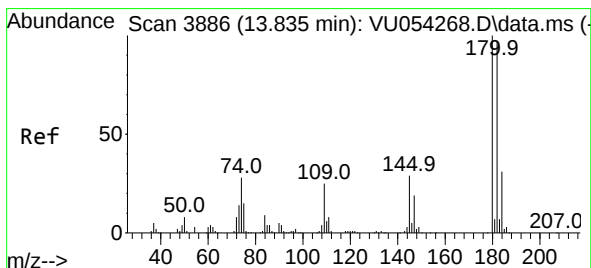
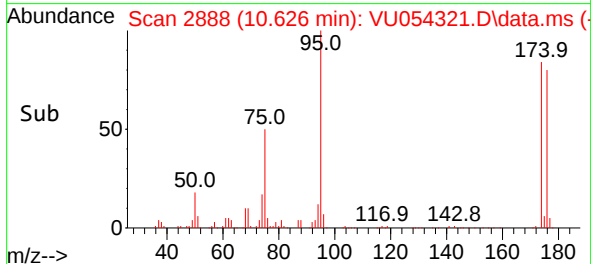
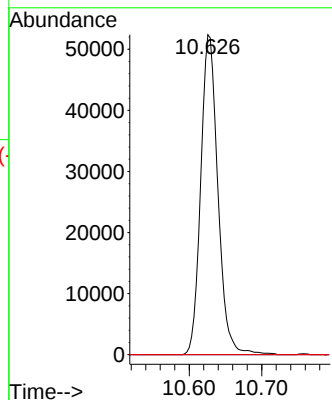
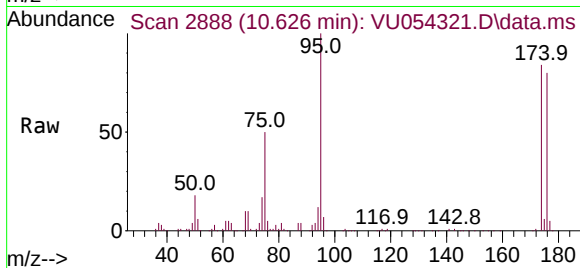




#81
trans-1,4-Dichloro-2-butene
Concen: 60.623 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

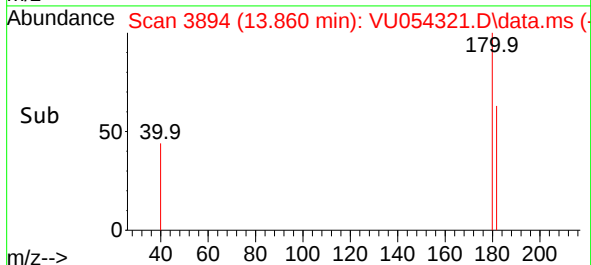
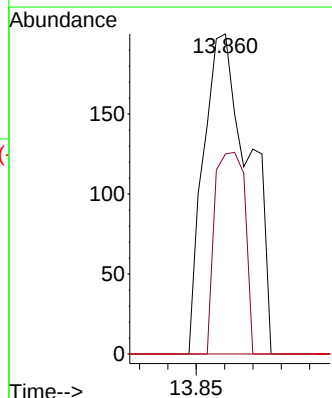
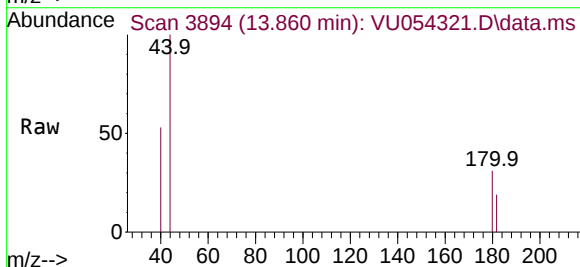
Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

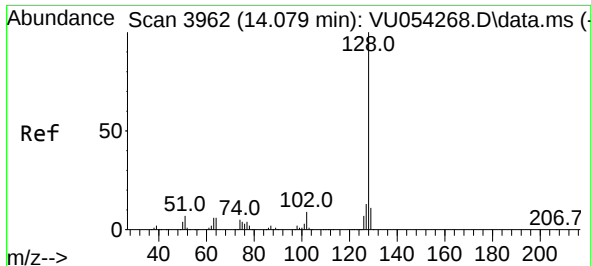
Tgt Ion: 75 Resp: 86075
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.694 ug/l
RT: 13.860 min Scan# 3894
Delta R.T. 0.025 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion:180 Resp: 224
Ion Ratio Lower Upper
180 100
182 41.1 47.9 143.6#
145 0.0 14.0 41.9#

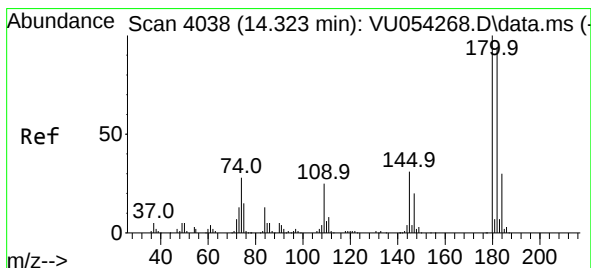
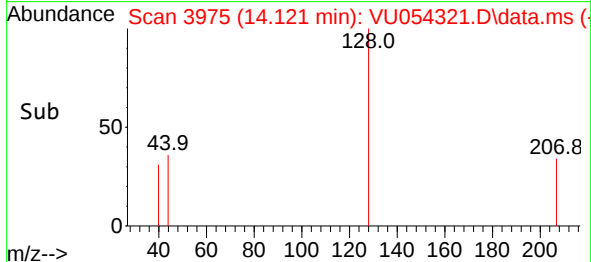
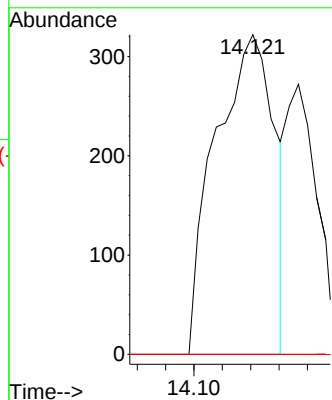
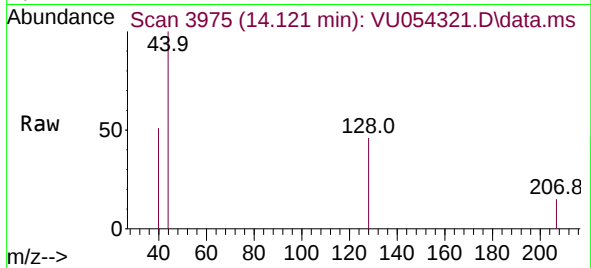




#95
Naphthalene
Concen: 2.024 ug/l
RT: 14.121 min Scan# 3962
Delta R.T. 0.042 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Instrument :
MSVOA_U
ClientSampleId :
54BR-20230524

Tgt Ion:128 Resp: 465
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: 1.291 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.013 min
Lab File: VU054321.D
Acq: 30 May 2023 18:08

Tgt Ion:180 Resp: 157
Ion Ratio Lower Upper
180 100
182 108.3 48.4 145.0
145 0.0 14.8 44.4#

