

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054336.D
 Acq On : 31 May 2023 14:38
 Operator : JC/MD
 Sample : 02936-16DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 40BR-20230524DL

Quant Time: Jun 01 05:20:58 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)

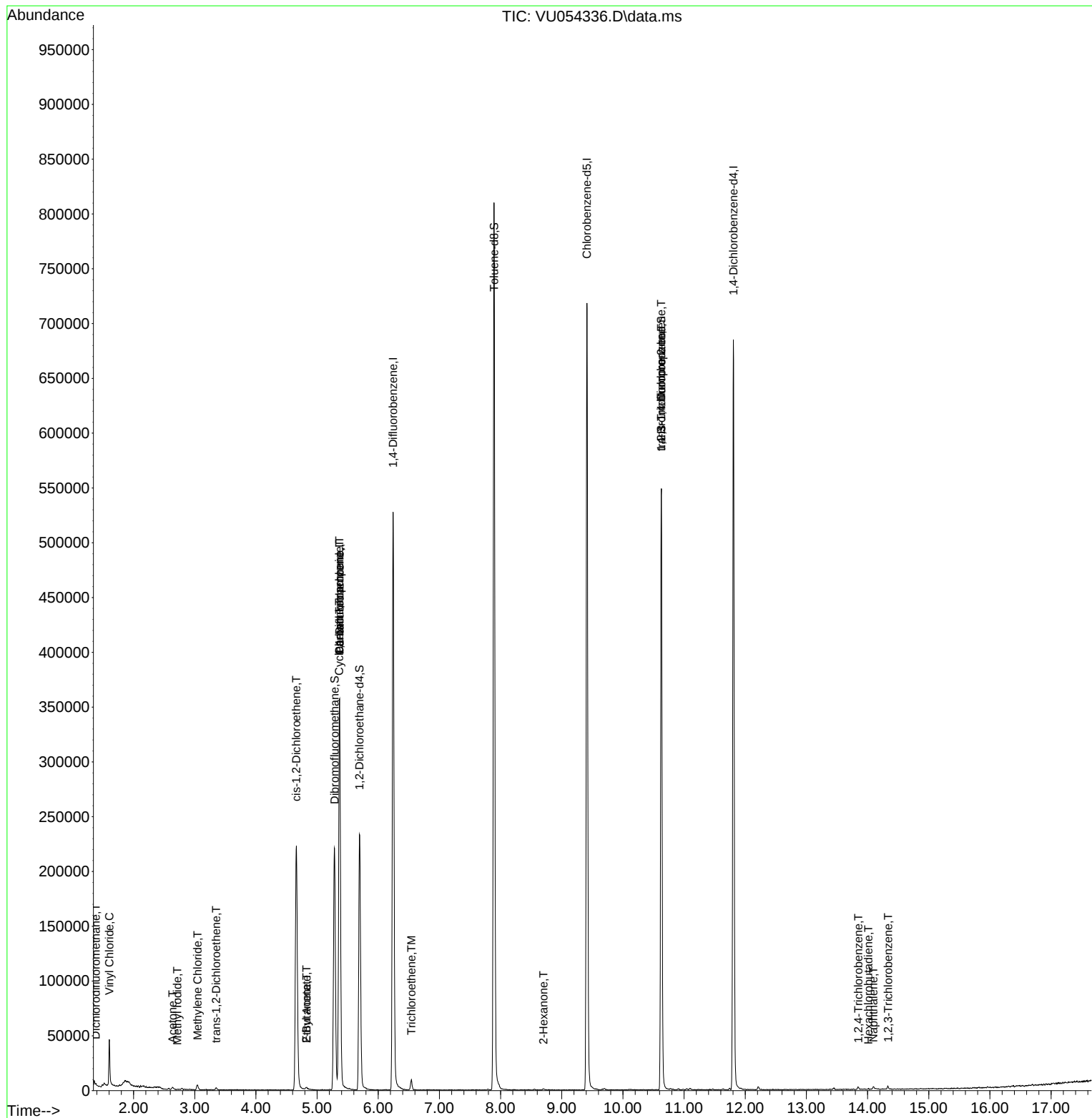
Internal Standards						
1) Pentafluorobenzene	5.369	168	261497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	443761	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.410	117	411490	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	189252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.693	65	177709	51.841	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.680%	
35) Dibromofluoromethane	5.285	113	146612	51.304	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.600%	
50) Toluene-d8	7.893	98	546090	50.239	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.480%	
62) 4-Bromofluorobenzene	10.629	95	183525	43.544	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 87.080%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.382	85	1213	0.416	ug/l	90
4) Vinyl Chloride	1.604	62	30765	8.436	ug/l	99
10) Methyl Iodide	2.713	142	126	2.368	ug/l #	81
16) Acetone	2.639	43	2679	1.363	ug/l	94
20) Methylene Chloride	3.044	84	2405	0.678	ug/l	92
21) trans-1,2-Dichloroethene	3.349	96	865	0.287	ug/l	85
25) 2-Butanone	4.829	43	3044	1.170	ug/l #	45
27) cis-1,2-Dichloroethene	4.661	96	124580	37.188	ug/l	93
31) Cyclohexane	5.362	56	5324	1.100	ug/l #	1
36) 1,1-Dichloropropene	5.365	75	19772	4.405	ug/l #	49
37) Ethyl Acetate	4.829	43	3044	0.556	ug/l #	80
38) Carbon Tetrachloride	5.365	117	25761	5.607	ug/l #	16
44) Trichloroethene	6.542	130	3365	0.940	ug/l	88
59) 2-Hexanone	8.700	43	908	0.228	ug/l	73
76) 1,2,3-Trichloropropane	10.626	75	91738	16.609	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	91738	63.245	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.847	180	1148	1.898	ug/l #	71
94) Hexachlorobutadiene	14.011	225	303	0.968	ug/l #	68
95) Naphthalene	14.095	128	3617	2.239	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.336	180	1155	1.516	ug/l #	91

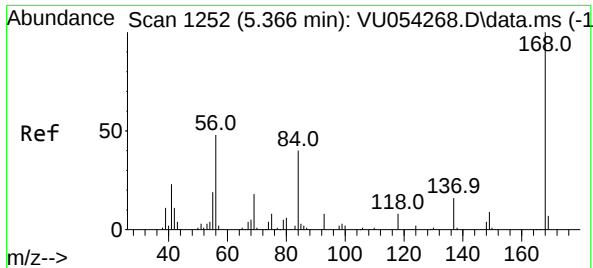
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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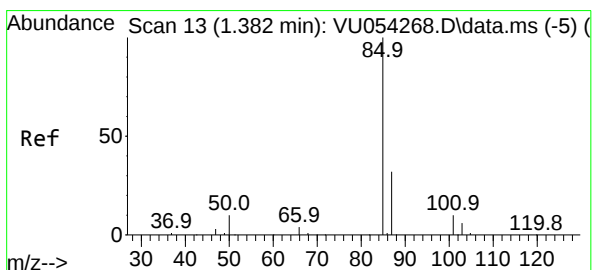
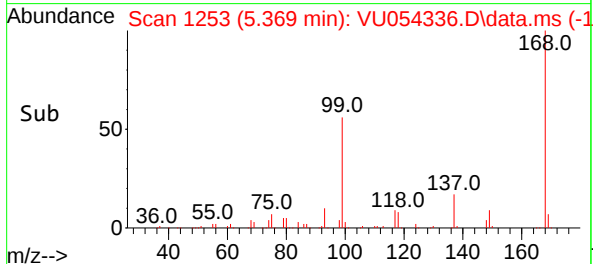
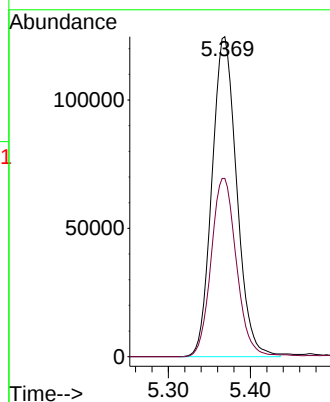
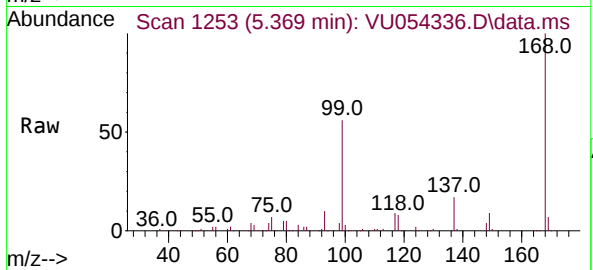




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

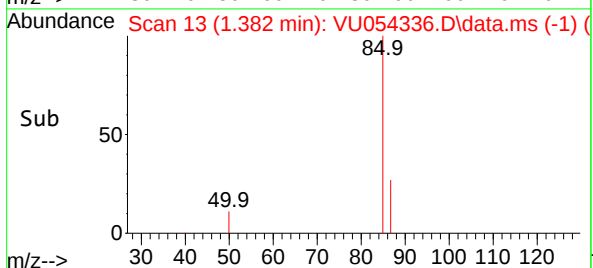
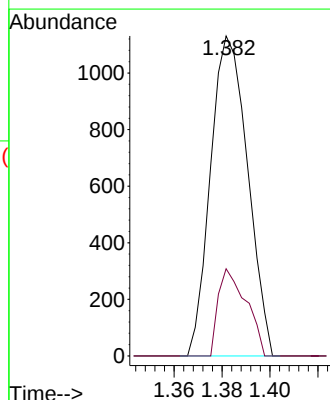
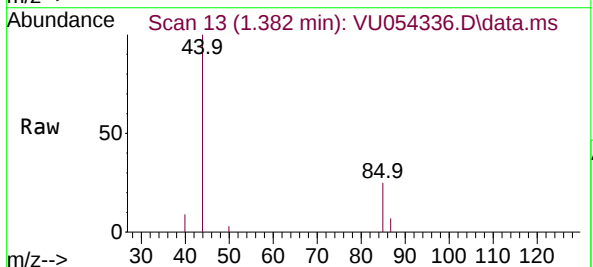
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

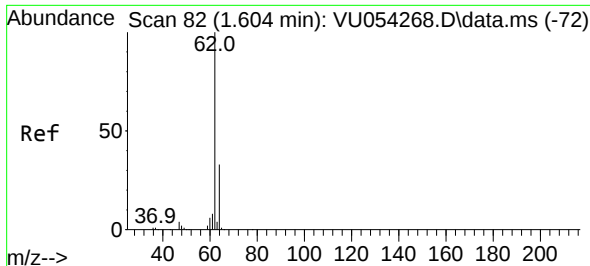
Tgt Ion:168 Resp: 261497
Ion Ratio Lower Upper
168 100
99 55.7 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.416 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.000 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 85 Resp: 1213
Ion Ratio Lower Upper
85 100
87 27.2 16.4 49.2

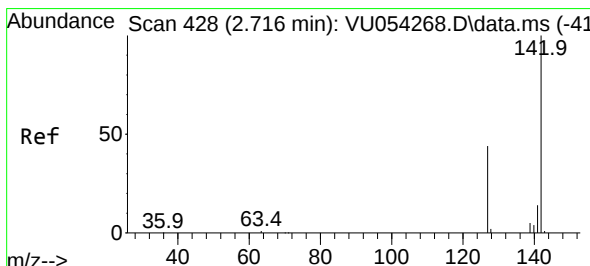
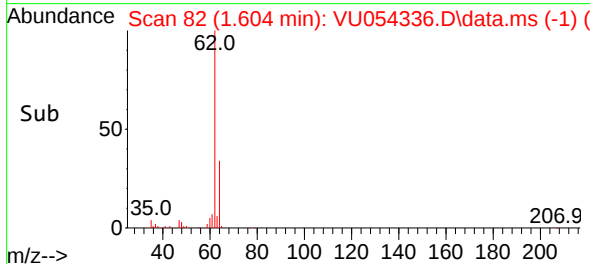
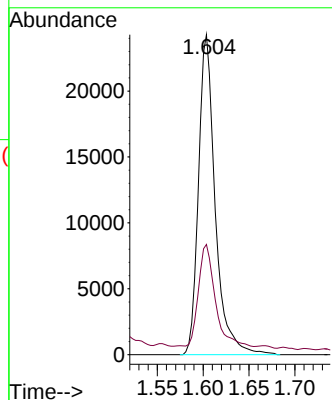
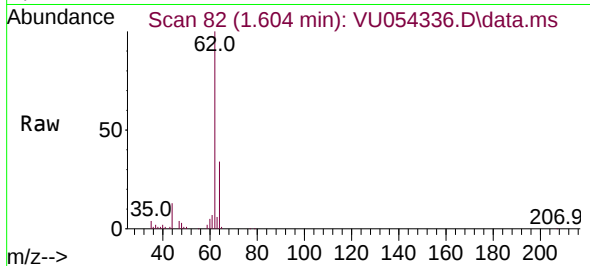




#4
 Vinyl Chloride
 Concen: 8.436 ug/l
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU054336.D
 Acq: 31 May 2023 14:38

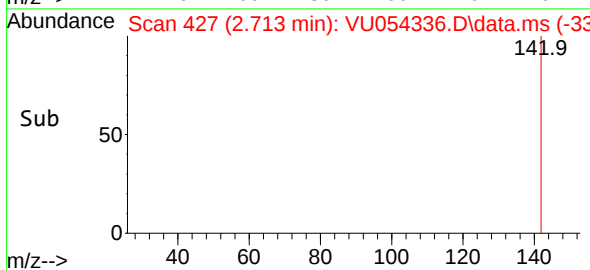
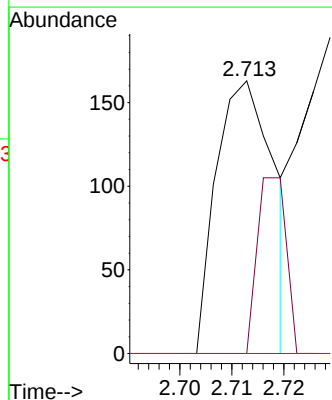
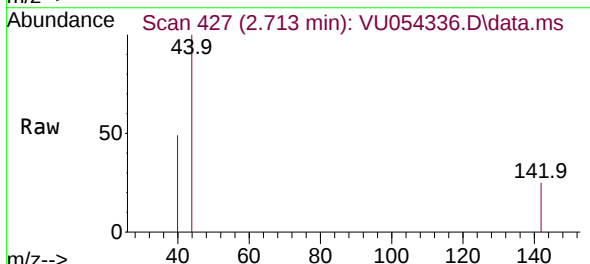
Instrument :
 MSVOA_U
 ClientSampleId :
 40BR-20230524DL

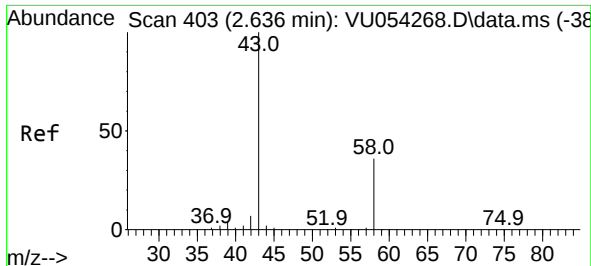
Tgt Ion: 62 Resp: 30765
 Ion Ratio Lower Upper
 62 100
 64 32.3 25.3 37.9



#10
 Methyl Iodide
 Concen: 2.368 ug/l
 RT: 2.713 min Scan# 427
 Delta R.T. -0.003 min
 Lab File: VU054336.D
 Acq: 31 May 2023 14:38

Tgt Ion: 142 Resp: 126
 Ion Ratio Lower Upper
 142 100
 127 32.5 32.5 48.7
 141 0.0 11.4 17.0#

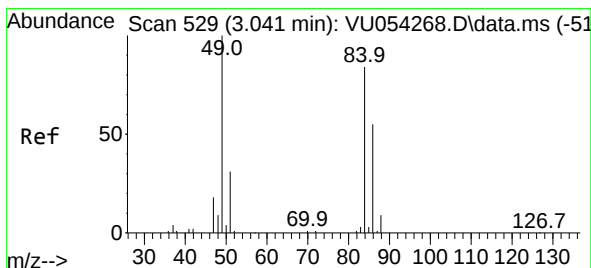
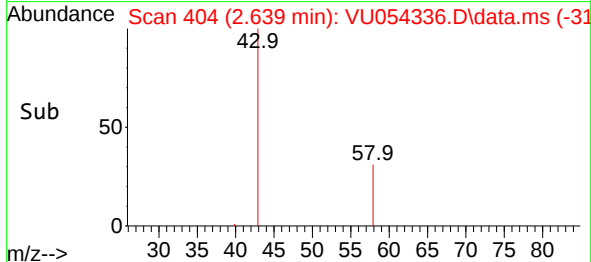
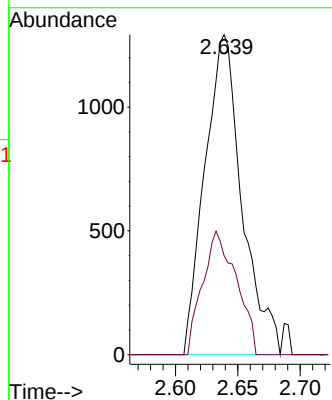
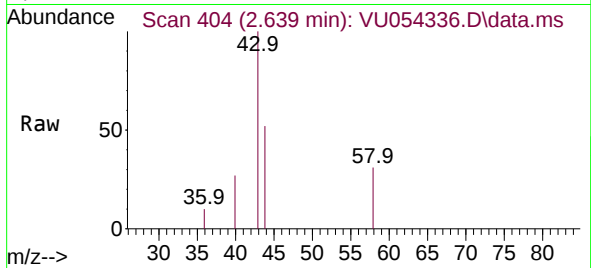




#16
Acetone
Concen: 1.363 ug/l
RT: 2.639 min Scan# 403
Delta R.T. 0.003 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

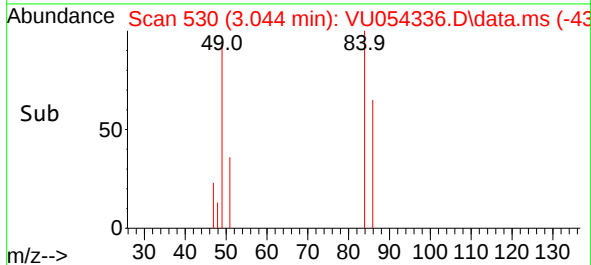
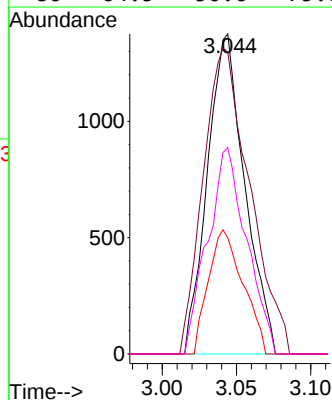
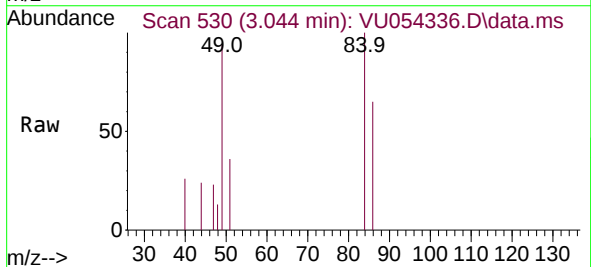
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

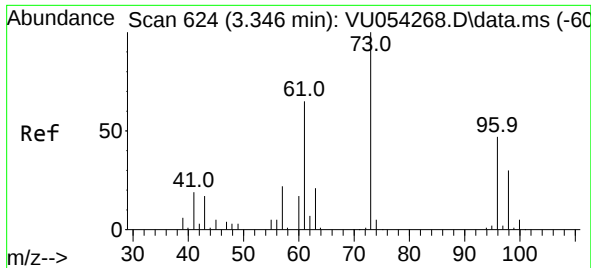
Tgt Ion: 43 Resp: 2679
Ion Ratio Lower Upper
43 100
58 31.0 27.5 41.3



#20
Methylene Chloride
Concen: 0.678 ug/l
RT: 3.044 min Scan# 530
Delta R.T. 0.003 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 84 Resp: 2405
Ion Ratio Lower Upper
84 100
49 94.5 86.6 129.8
51 36.4 26.6 40.0
86 64.5 50.6 75.8

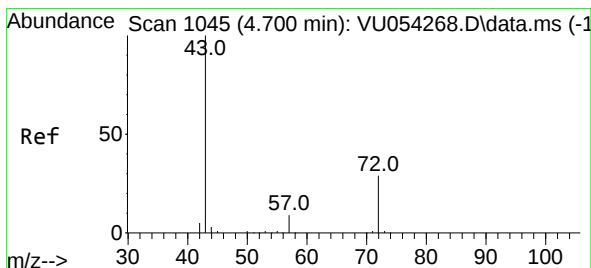
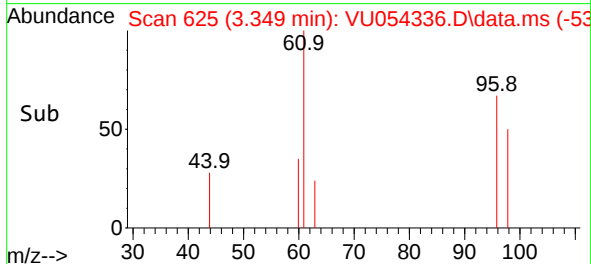
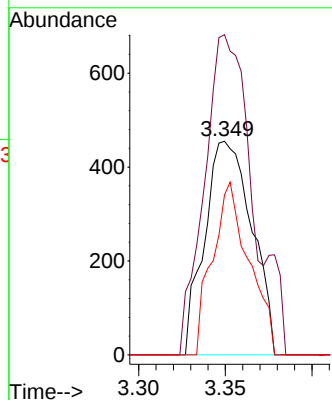
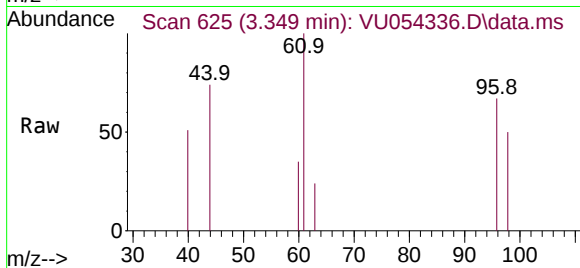




#21
trans-1,2-Dichloroethene
Concen: 0.287 ug/l
RT: 3.349 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

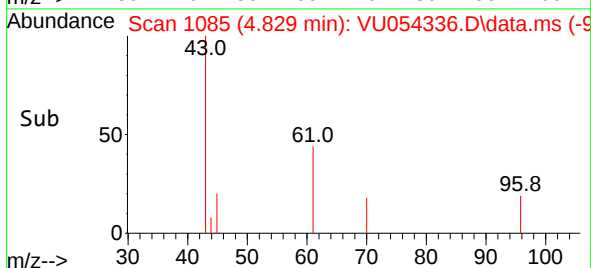
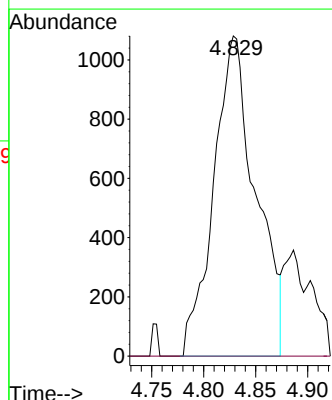
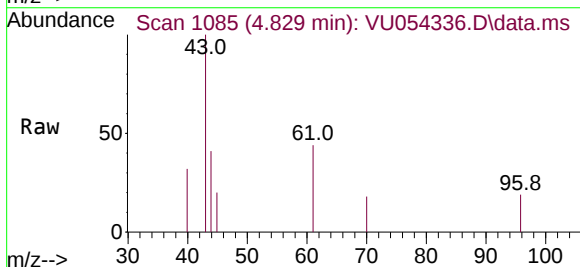
Instrument :
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ClientSampleId :
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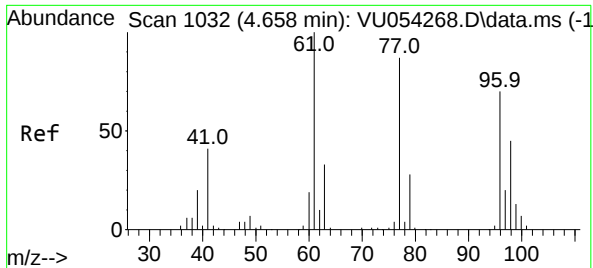
Tgt Ion: 96 Resp: 865
Ion Ratio Lower Upper
96 100
61 149.9 106.1 159.1
98 74.9 50.8 76.2



#25
2-Butanone
Concen: 1.170 ug/l
RT: 4.829 min Scan# 1085
Delta R.T. 0.129 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 43 Resp: 3044
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#

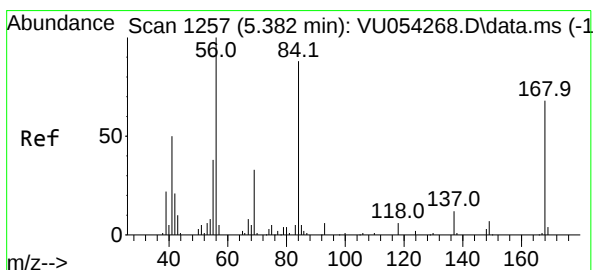
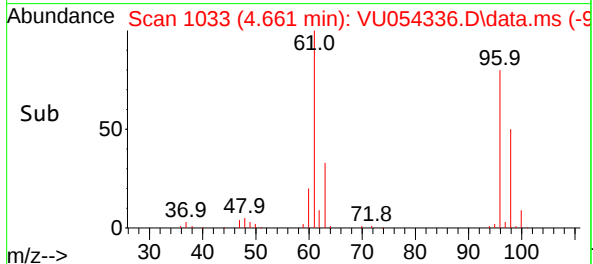
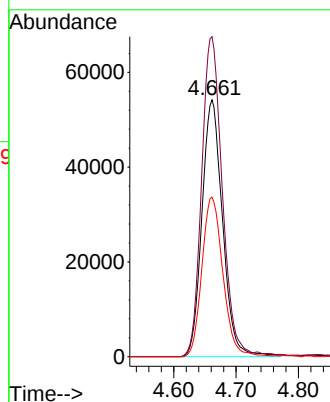
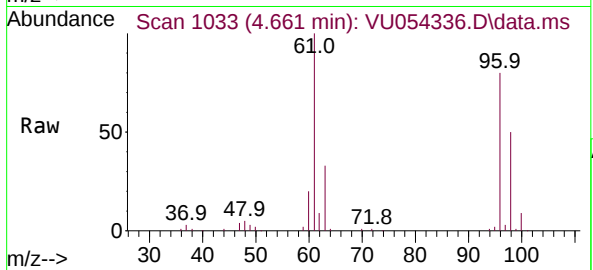




#27
 cis-1,2-Dichloroethene
 Concen: 37.188 ug/l
 RT: 4.661 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: VU054336.D
 Acq: 31 May 2023 14:38

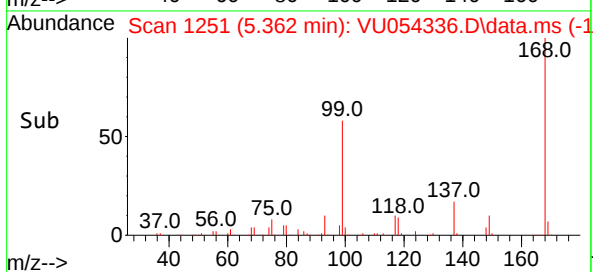
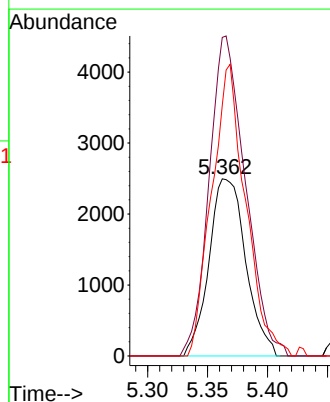
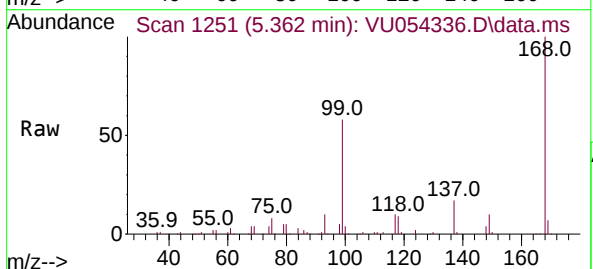
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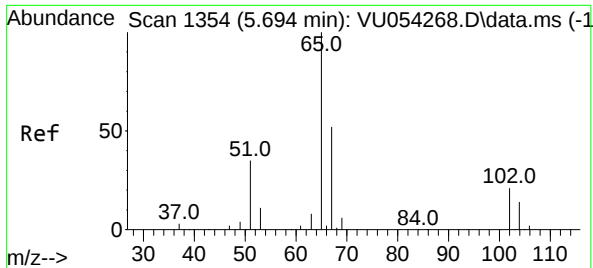
Tgt Ion: 96 Resp: 124580
 Ion Ratio Lower Upper
 96 100
 61 124.2 0.0 271.6
 98 63.1 0.0 128.2



#31
 Cyclohexane
 Concen: 1.100 ug/l
 RT: 5.362 min Scan# 1251
 Delta R.T. -0.020 min
 Lab File: VU054336.D
 Acq: 31 May 2023 14:38

Tgt Ion: 56 Resp: 5324
 Ion Ratio Lower Upper
 56 100
 69 179.9 27.8 41.8#
 84 141.6 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 51.841 ug/l

RT: 5.693 min Scan# 11

Delta R.T. -0.001 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

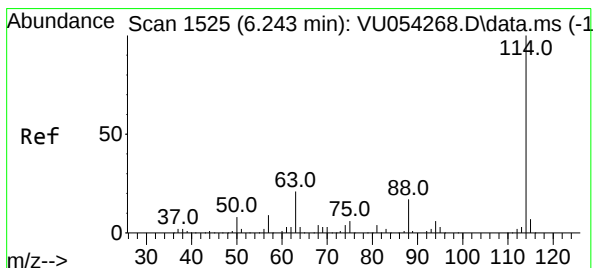
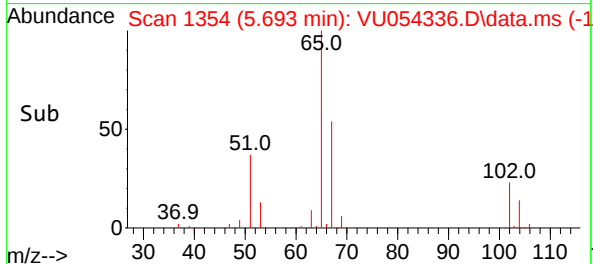
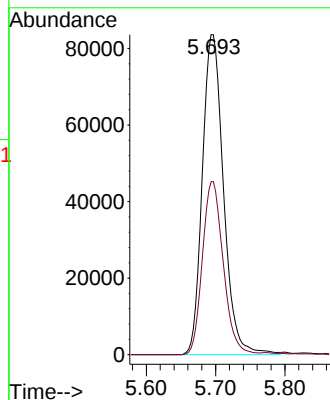
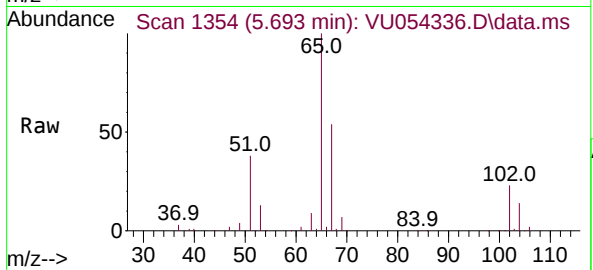
40BR-20230524DL

Tgt Ion: 65 Resp: 177709

Ion Ratio Lower Upper

65 100

67 53.1 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: VU054336.D

Acq: 31 May 2023 14:38

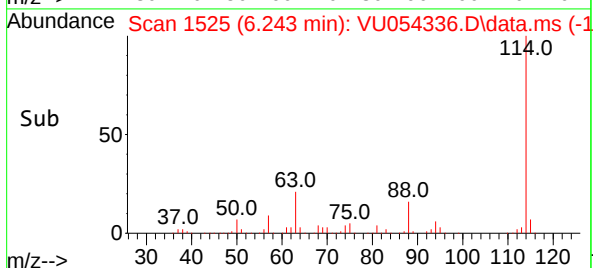
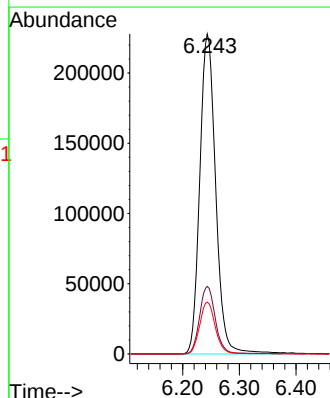
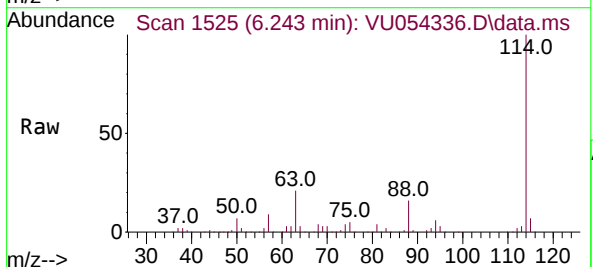
Tgt Ion:114 Resp: 443761

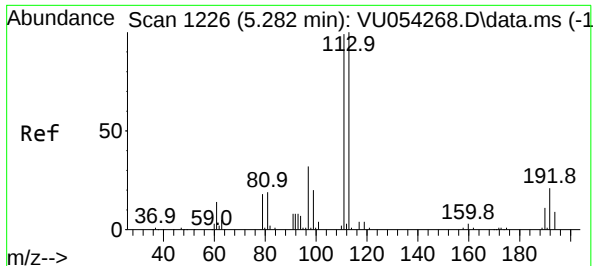
Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 16.2 0.0 29.2

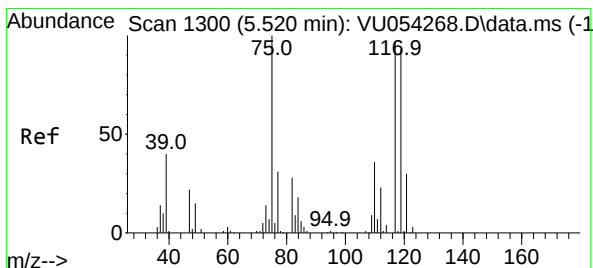
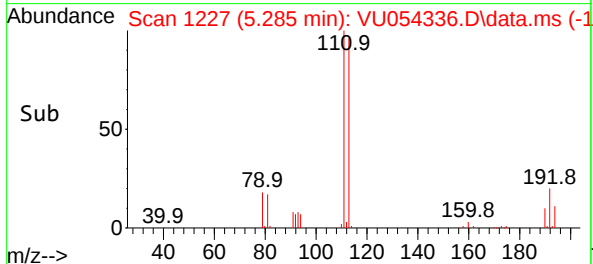
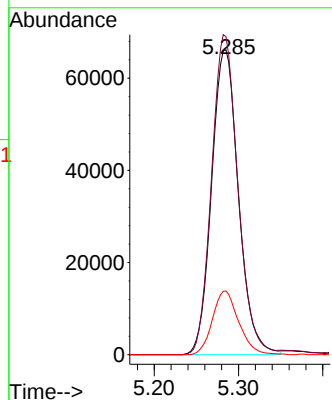
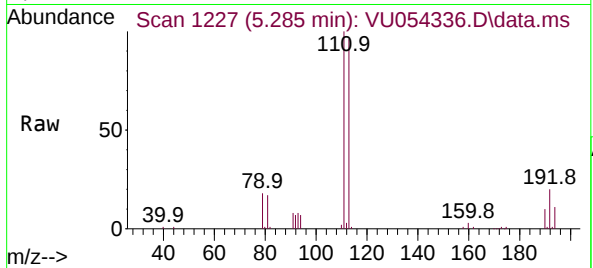




#35
Dibromofluoromethane
Concen: 51.304 ug/l
RT: 5.285 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

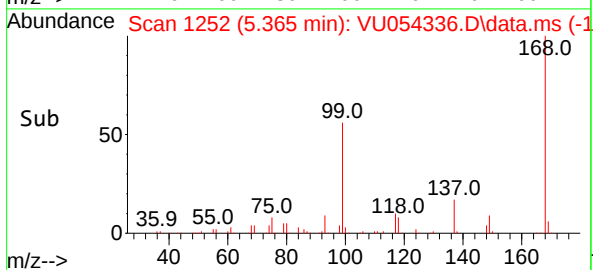
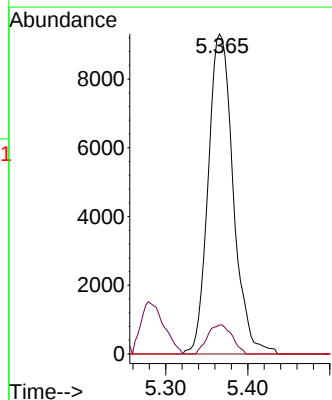
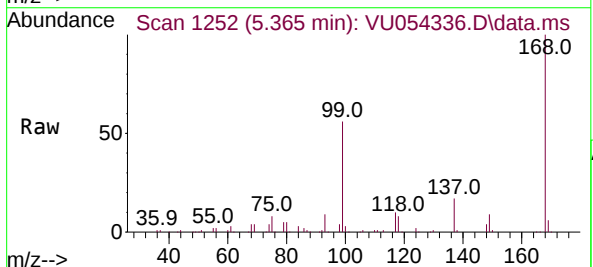
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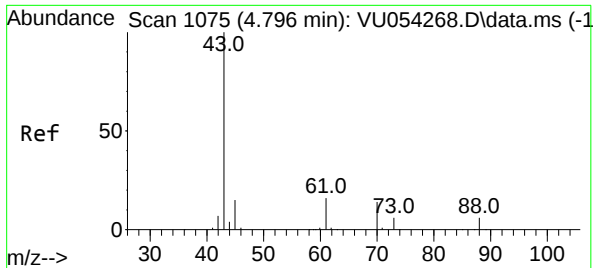
Tgt Ion:113 Resp: 146612
Ion Ratio Lower Upper
113 100
111 102.9 82.1 123.1
192 20.4 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.405 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.155 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 75 Resp: 19772
Ion Ratio Lower Upper
75 100
110 8.9 18.4 55.2#
77 0.0 25.1 37.7#

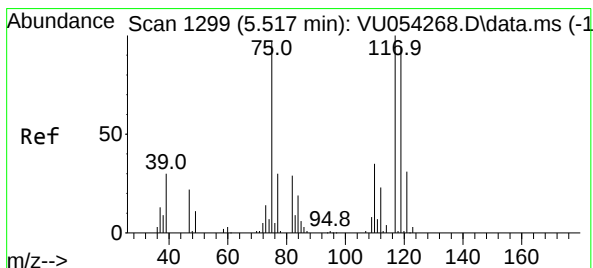
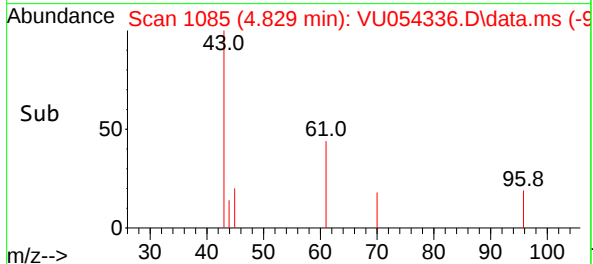
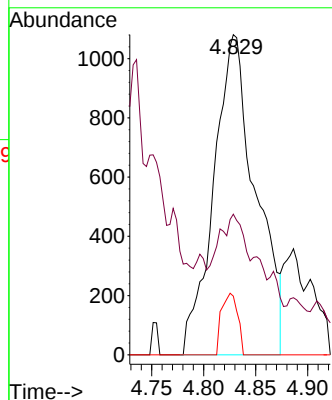
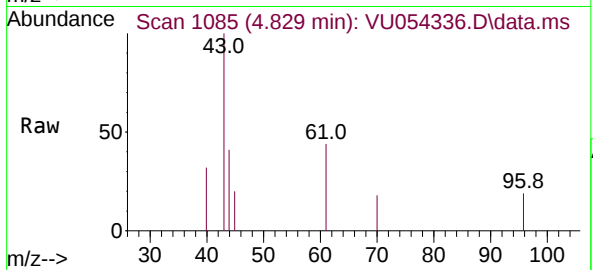




#37
Ethyl Acetate
Concen: 0.556 ug/l
RT: 4.829 min Scan# 1085
Delta R.T. 0.033 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

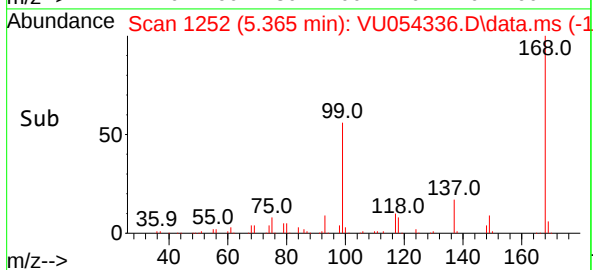
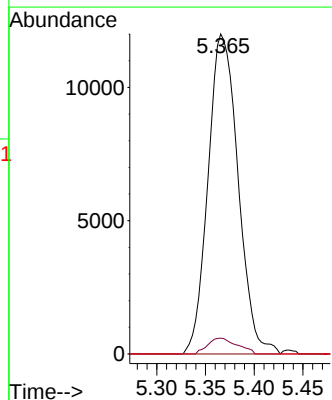
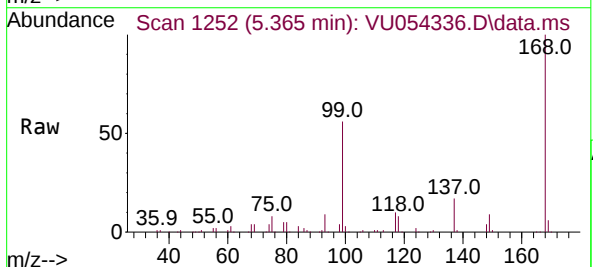
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

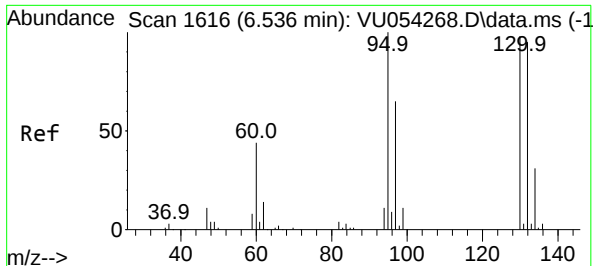
Tgt Ion: 43 Resp: 3044
Ion Ratio Lower Upper
43 100
61 0.0 9.5 14.3#
70 7.4 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.607 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.152 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 117 Resp: 25761
Ion Ratio Lower Upper
117 100
119 5.0 76.8 115.2#
121 0.0 24.7 37.1#

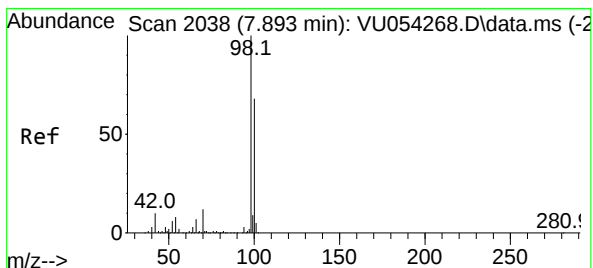
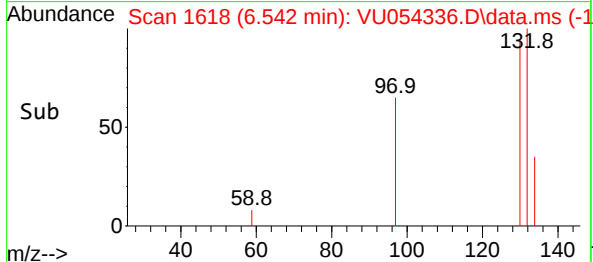
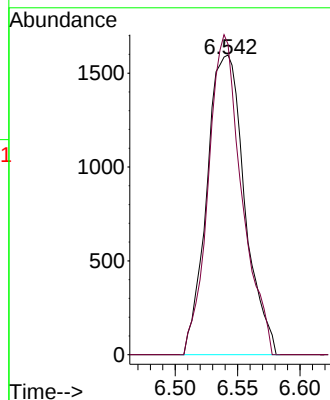
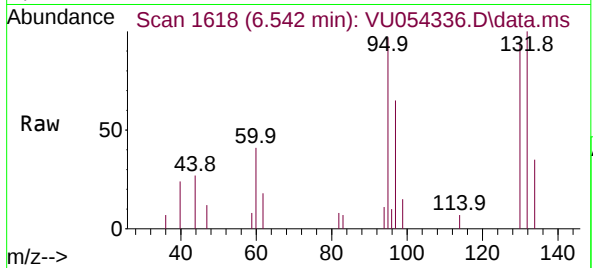




#44
Trichloroethene
Concen: 0.940 ug/l
RT: 6.542 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

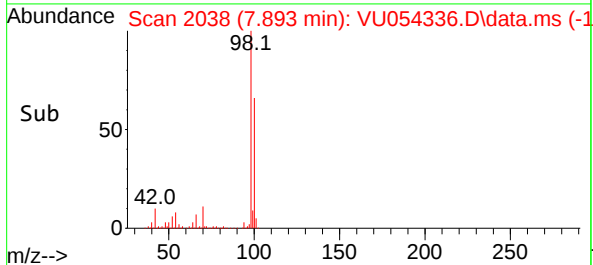
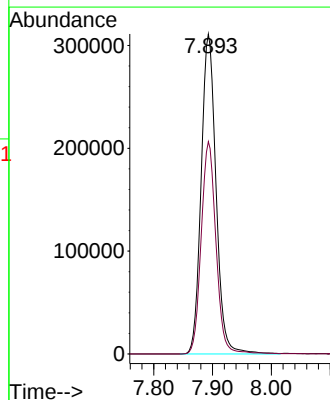
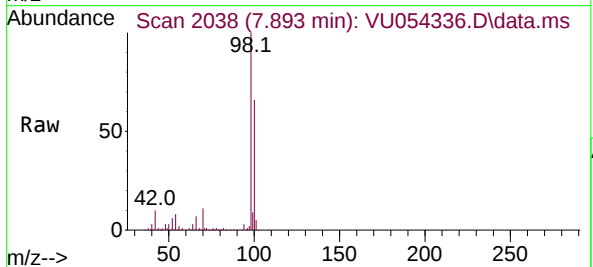
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

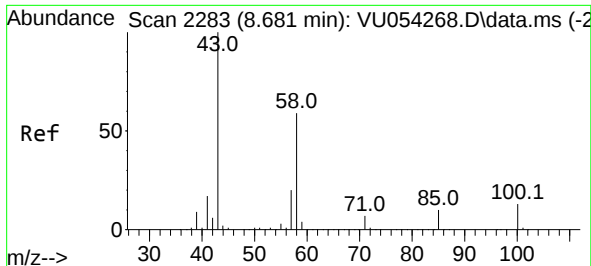
Tgt Ion:130 Resp: 3365
Ion Ratio Lower Upper
130 100
95 103.6 0.0 184.6



#50
Toluene-d8
Concen: 50.239 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 98 Resp: 546090
Ion Ratio Lower Upper
98 100
100 65.7 51.7 77.5





#59

2-Hexanone

Concen: 0.228 ug/l

RT: 8.700 min Scan# 21

Delta R.T. 0.019 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

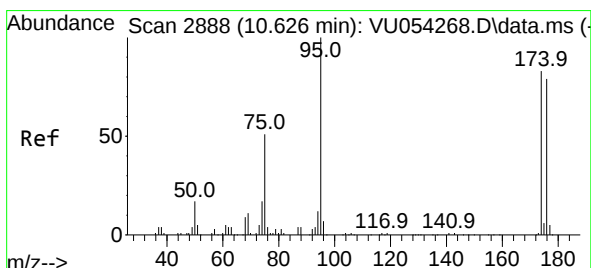
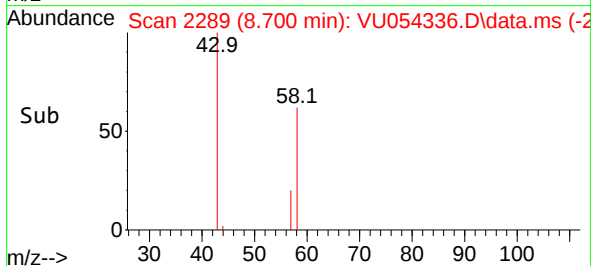
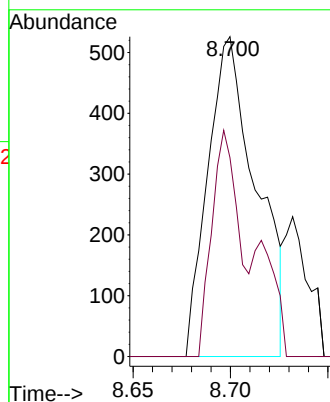
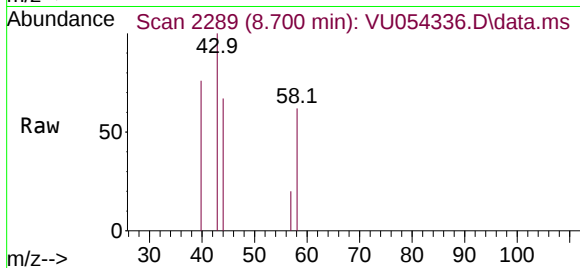
40BR-20230524DL

Tgt Ion: 43 Resp: 908

Ion Ratio Lower Upper

43 100

58 39.6 30.3 90.8



#62

4-Bromofluorobenzene

Concen: 43.544 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. 0.003 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

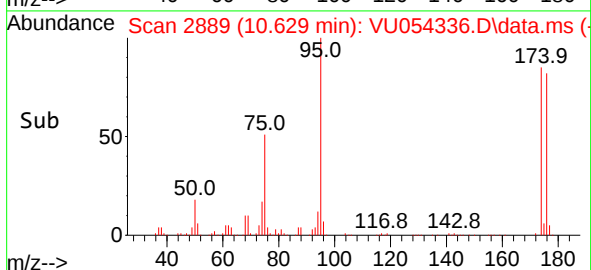
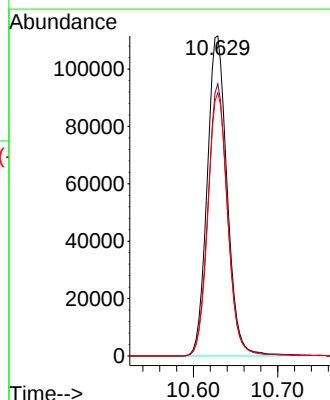
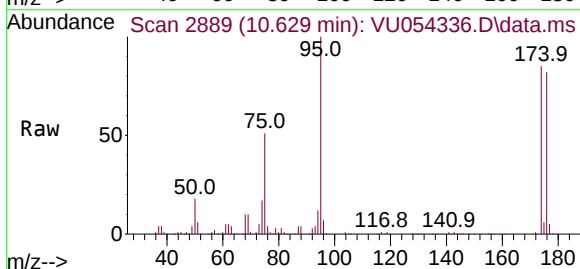
Tgt Ion: 95 Resp: 183525

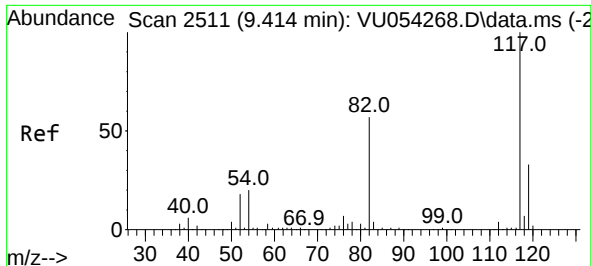
Ion Ratio Lower Upper

95 100

174 84.1 0.0 182.0

176 81.8 0.0 177.8

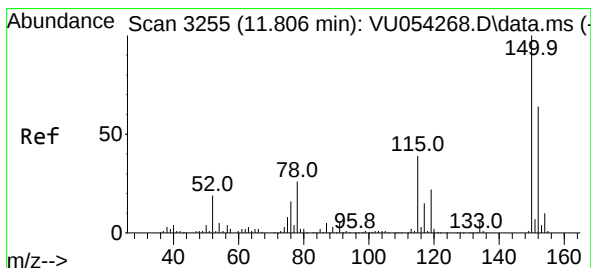
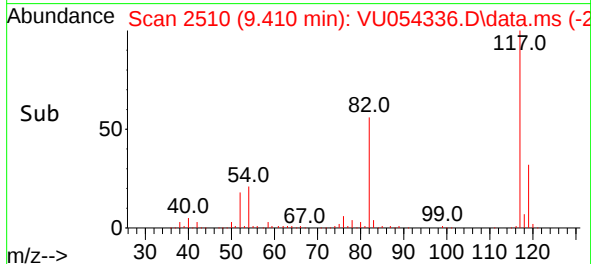
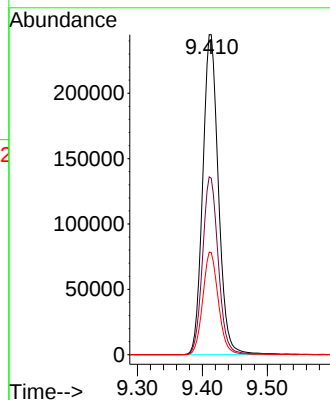
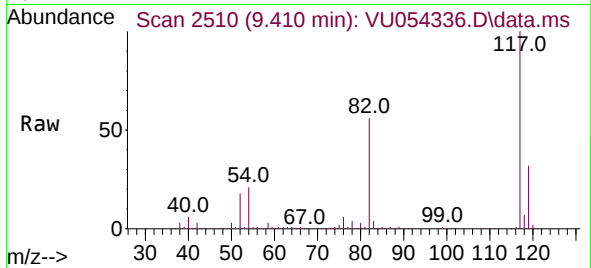




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.410 min Scan# 2511
Delta R.T. -0.004 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

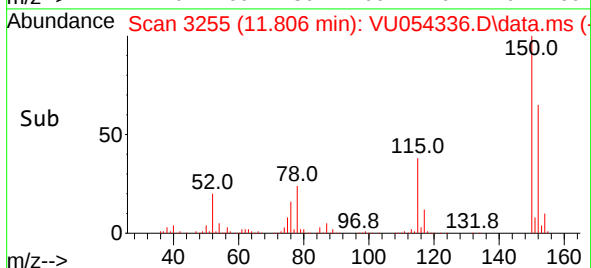
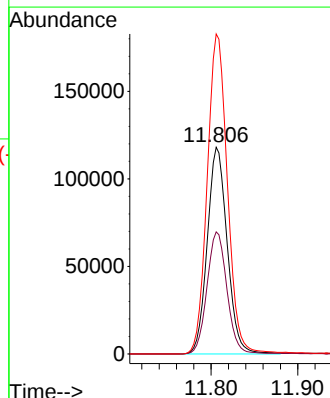
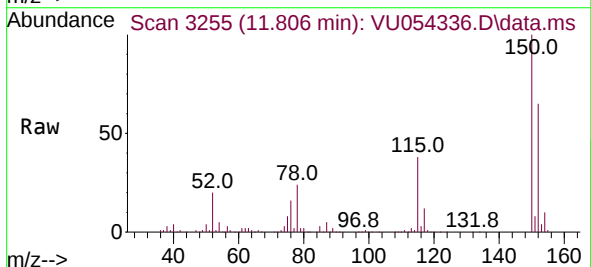
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

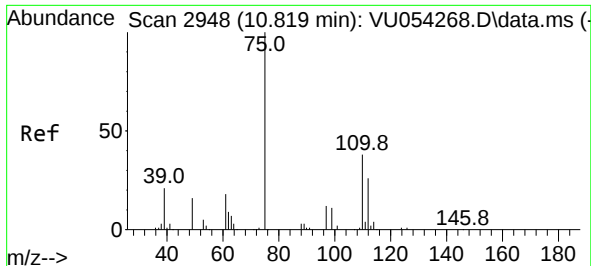
Tgt Ion:117 Resp: 411490
Ion Ratio Lower Upper
117 100
82 55.6 41.7 62.5
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion:152 Resp: 189252
Ion Ratio Lower Upper
152 100
115 58.8 37.0 110.9
150 156.5 0.0 342.2

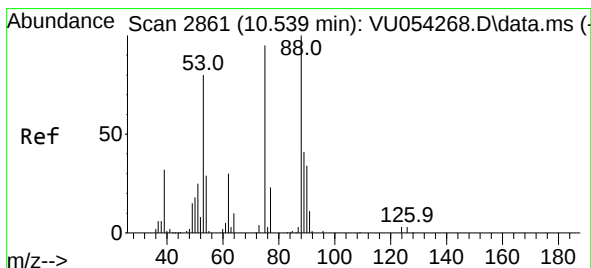
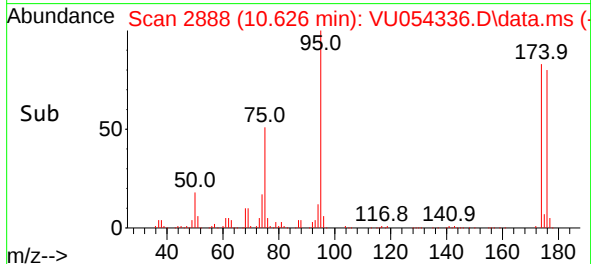
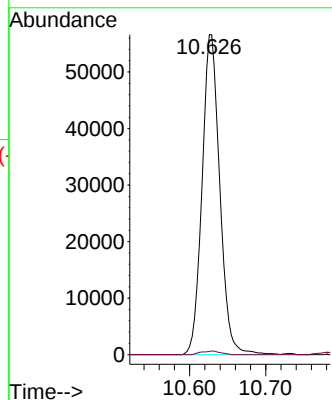
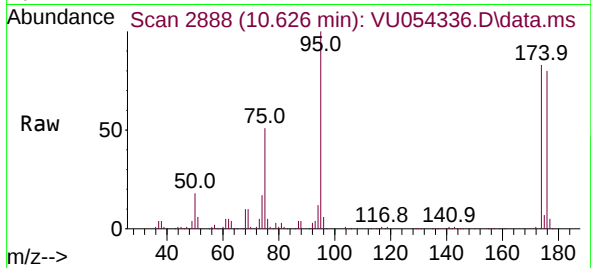




#76
1,2,3-Trichloropropane
Concen: 16.609 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

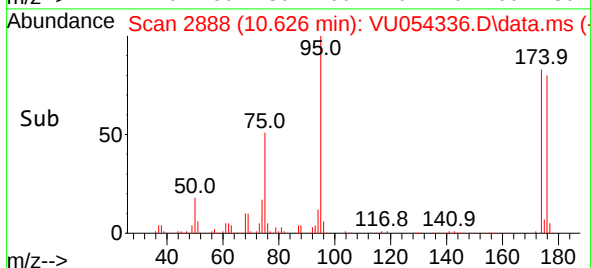
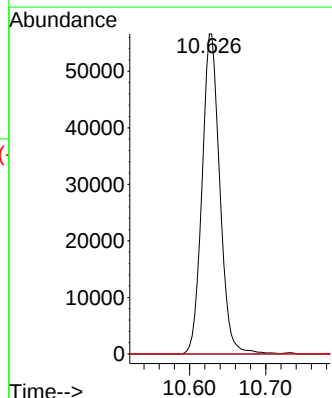
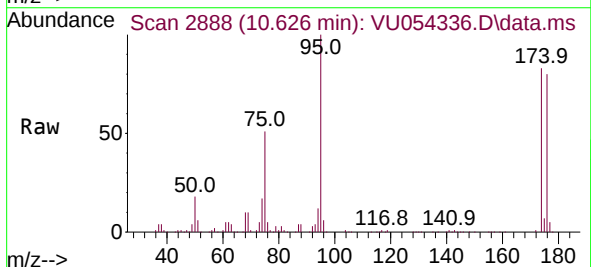
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524DL

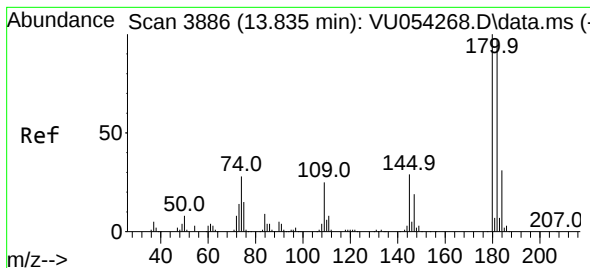
Tgt Ion: 75 Resp: 91738
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.245 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054336.D
Acq: 31 May 2023 14:38

Tgt Ion: 75 Resp: 91738
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: 1.898 ug/l

RT: 13.847 min Scan# 3890

Delta R.T. 0.012 min

Lab File: VU054336.D

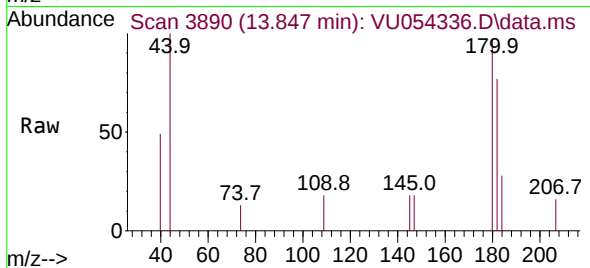
Acq: 31 May 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

40BR-20230524DL



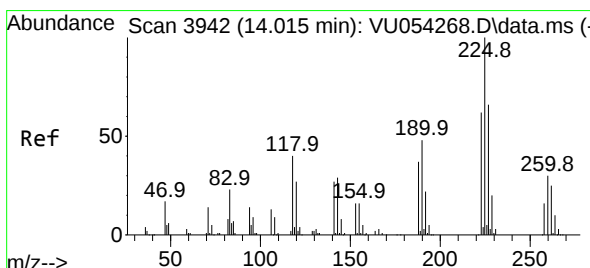
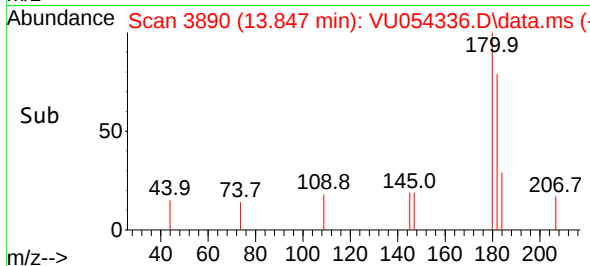
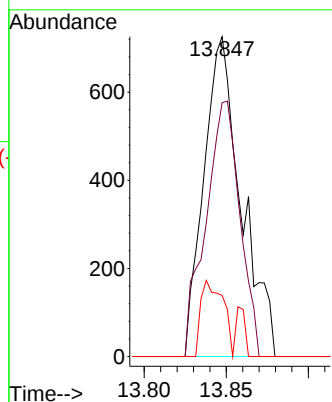
Tgt Ion:180 Resp: 1148

Ion Ratio Lower Upper

180 100

182 72.9 47.9 143.6

145 3.7 14.0 41.9#



#94

Hexachlorobutadiene

Concen: 0.968 ug/l

RT: 14.011 min Scan# 3941

Delta R.T. -0.004 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

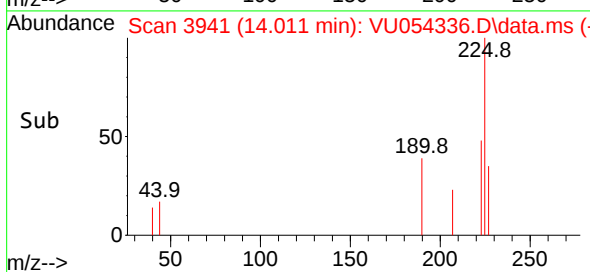
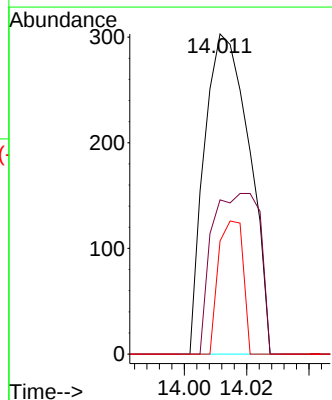
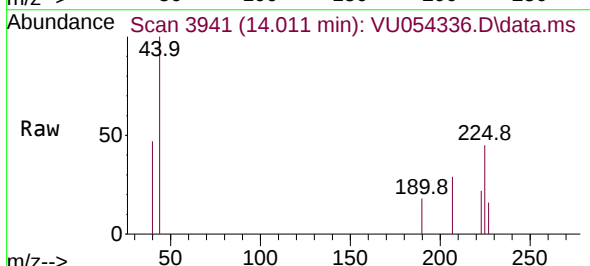
Tgt Ion:225 Resp: 303

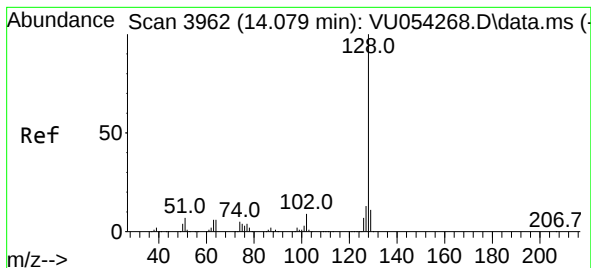
Ion Ratio Lower Upper

225 100

223 53.8 31.3 93.9

227 22.8 32.0 96.2#





#95

Naphthalene

Concen: 2.239 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.016 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

40BR-20230524DL

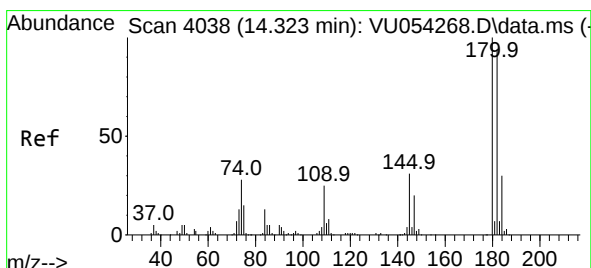
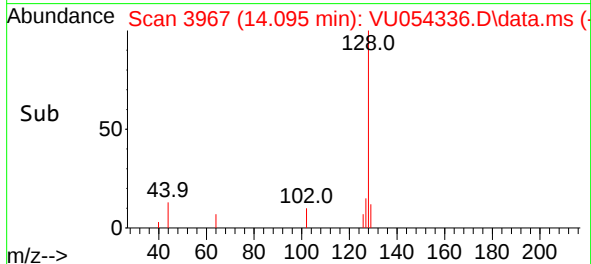
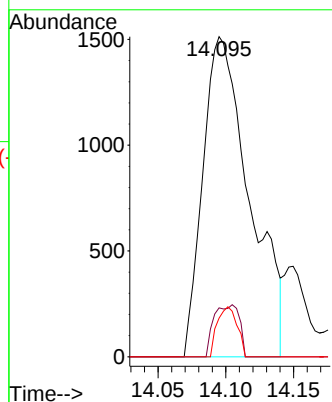
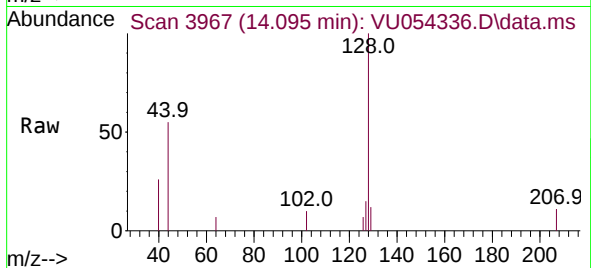
Tgt Ion:128 Resp: 3617

Ion Ratio Lower Upper

128 100

127 8.8 10.3 15.5#

129 6.6 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.516 ug/l

RT: 14.336 min Scan# 4042

Delta R.T. 0.013 min

Lab File: VU054336.D

Acq: 31 May 2023 14:38

Tgt Ion:180 Resp: 1155

Ion Ratio Lower Upper

180 100

182 93.7 48.4 145.0

145 14.0 14.8 44.4#

