

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054313.D
 Acq On : 30 May 2023 14:58
 Operator : JC/MD
 Sample : 02912-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE115D1-20230522

Quant Time: May 31 06:27:01 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

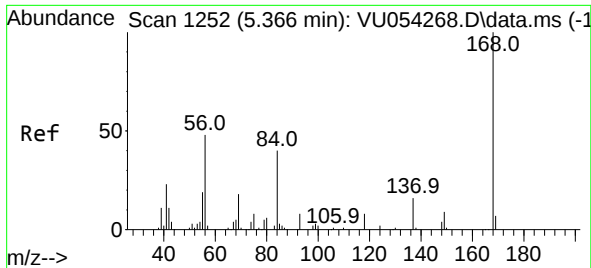
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.369	168	257632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	424844	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	395073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	191055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.697	65	173114	51.258	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 102.520%	
35) Dibromofluoromethane	5.285	113	141001	51.537	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.080%	
50) Toluene-d8	7.893	98	526144	50.559	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.120%	
62) 4-Bromofluorobenzene	10.629	95	181400	44.956	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 89.920%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.385	85	2726	0.948	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.578	101	38800	14.497	ug/l	96
10) Methyl Iodide	2.716	142	91	2.358	ug/l #	83
12) 1,1-Dichloroethene	2.575	96	15094	5.447	ug/l	93
16) Acetone	2.645	43	1997	1.032	ug/l	94
20) Methylene Chloride	3.044	84	1576	0.451	ug/l	96
24) 1,1-Dichloroethane	3.870	63	4321	0.792	ug/l #	92
27) cis-1,2-Dichloroethene	4.665	96	6283	1.904	ug/l	94
29) Tetrahydrofuran	5.067	42	367	0.228	ug/l #	46
30) Chloroform	5.083	83	7275	1.312	ug/l	99
31) Cyclohexane	5.369	56	4701	0.986	ug/l #	1
32) 1,1,1-Trichloroethane	5.311	97	2119	0.440	ug/l #	51
36) 1,1-Dichloropropene	5.366	75	19551	4.550	ug/l #	49
38) Carbon Tetrachloride	5.526	117	8289	1.885	ug/l	89
39) Methylcyclohexane	6.536	83	9780	2.009	ug/l #	1
42) 1,2-Dichloroethane	5.796	62	989	0.222	ug/l #	74
44) Trichloroethene	6.536	130	779313	227.446	ug/l	92
49) 1,4-Dioxane	7.012	88	1328	14.359	ug/l #	57
55) 1,1,2-Trichloroethane	8.394	97	2196	0.678	ug/l	90
60) Dibromochloromethane	8.549	129	685	0.208	ug/l #	11
64) Tetrachloroethene	8.552	164	729	0.245	ug/l	87
76) 1,2,3-Trichloropropane	10.626	75	91315	16.376	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	91315	62.359	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.860	180	363	1.723	ug/l #	82
95) Naphthalene	14.105	128	909	2.053	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.333	180	211	1.302	ug/l #	70

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

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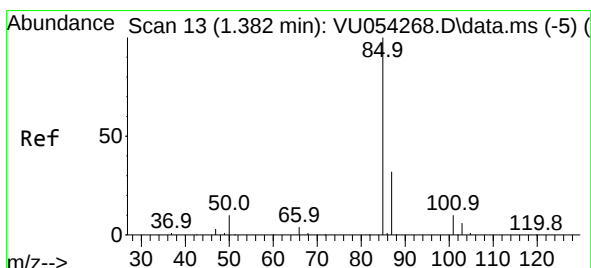
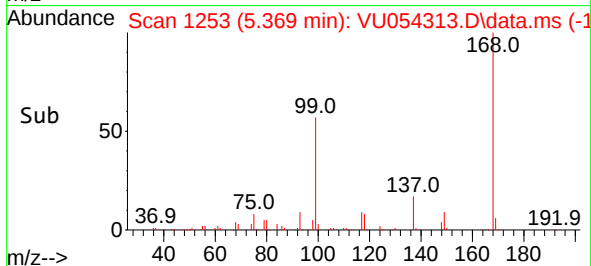
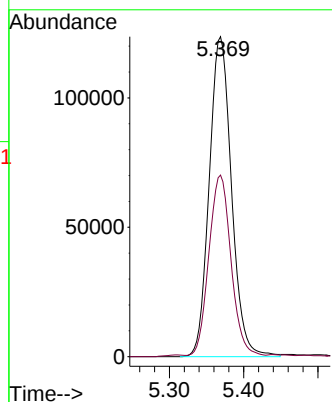
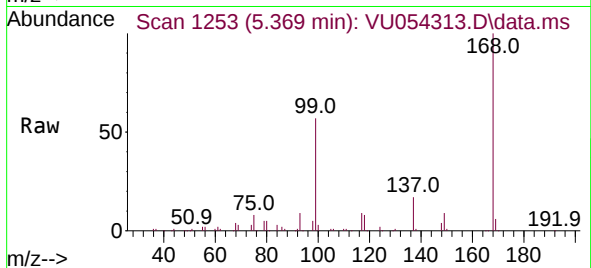




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

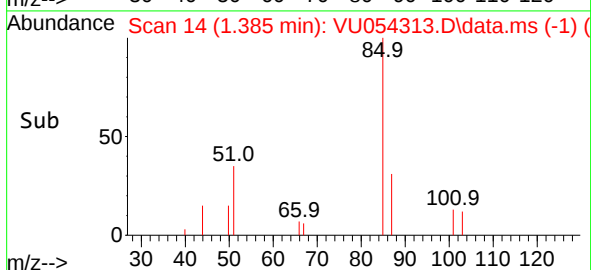
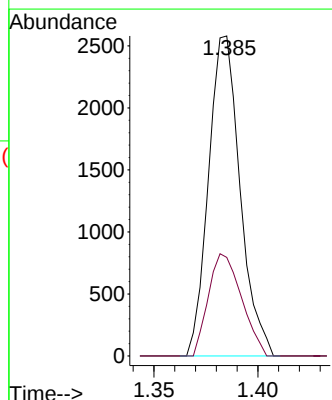
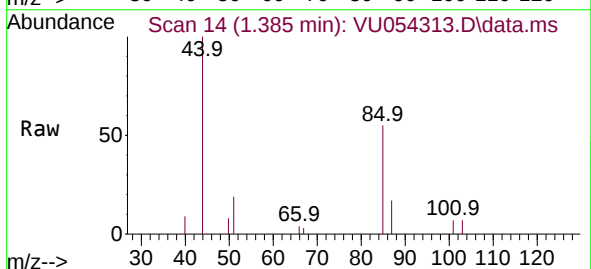
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

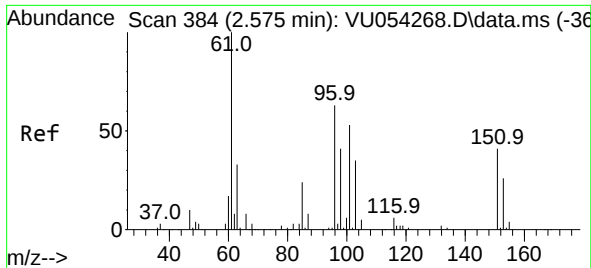
Tgt Ion:168 Resp: 257632
Ion Ratio Lower Upper
168 100
99 56.3 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.948 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion: 85 Resp: 2726
Ion Ratio Lower Upper
85 100
87 30.8 16.4 49.2

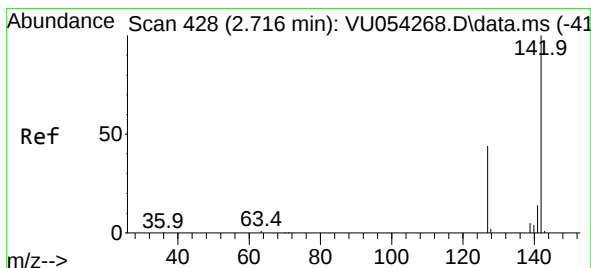
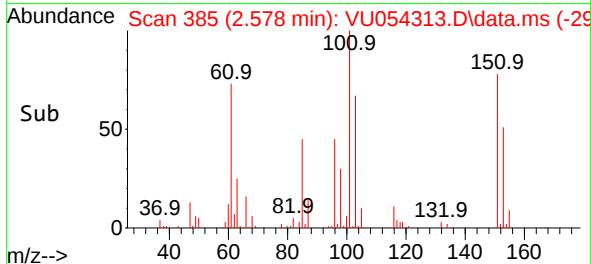
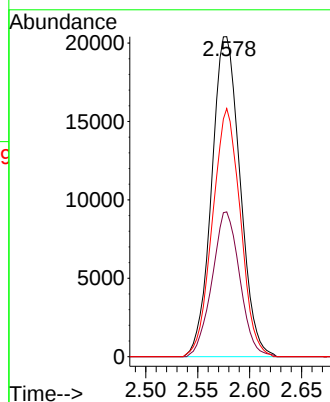
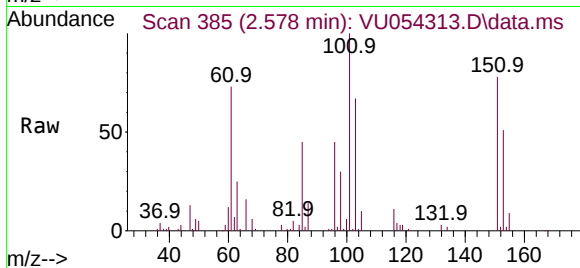




#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.497 ug/l
RT: 2.578 min Scan# 384
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

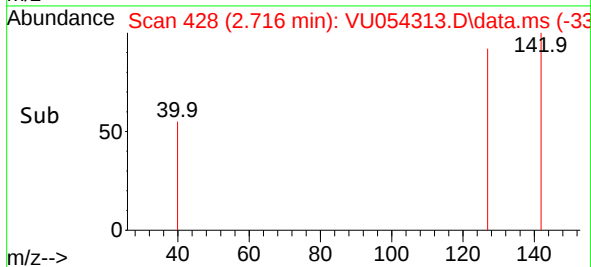
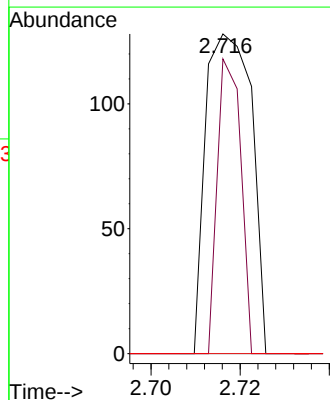
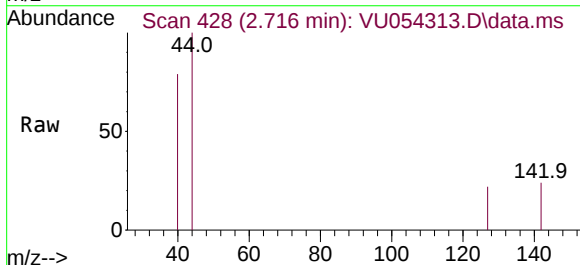
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

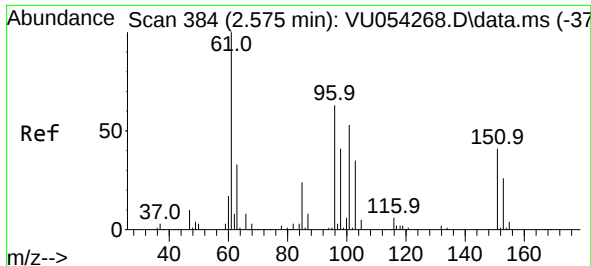
Tgt Ion:101 Resp: 38800
Ion Ratio Lower Upper
101 100
85 44.1 33.9 50.9
151 76.1 64.0 96.0



#10
Methyl Iodide
Concen: 2.358 ug/l
RT: 2.716 min Scan# 428
Delta R.T. 0.000 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion:142 Resp: 91
Ion Ratio Lower Upper
142 100
127 47.3 32.5 48.7
141 0.0 11.4 17.0#





#12

1,1-Dichloroethene

Concen: 5.447 ug/l

RT: 2.575 min Scan# 384

Delta R.T. -0.000 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

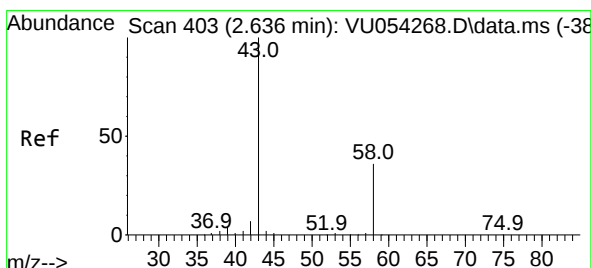
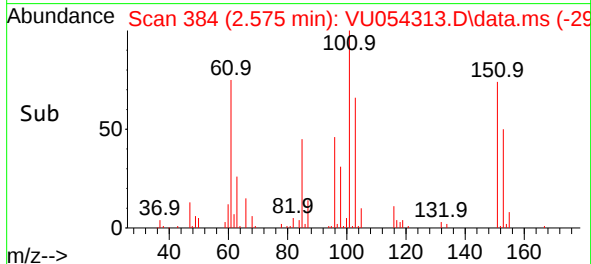
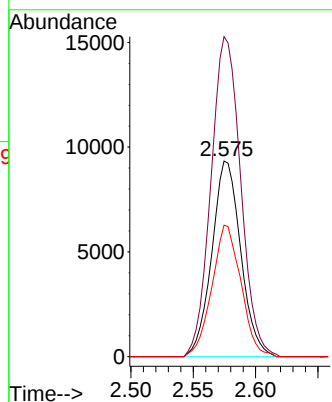
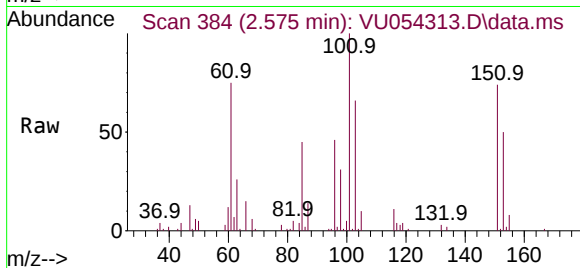
Tgt Ion: 96 Resp: 15094

Ion Ratio Lower Upper

96 100

61 163.6 122.2 183.2

98 67.2 50.7 76.1



#16

Acetone

Concen: 1.032 ug/l

RT: 2.645 min Scan# 406

Delta R.T. 0.009 min

Lab File: VU054313.D

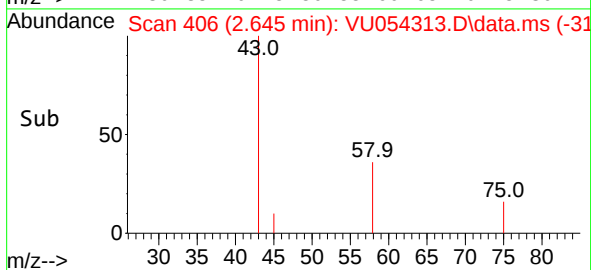
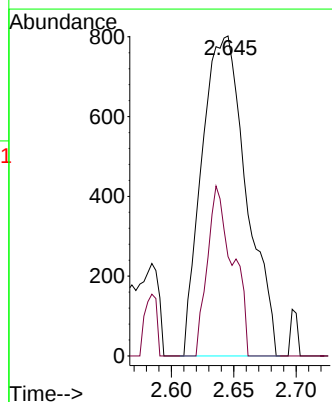
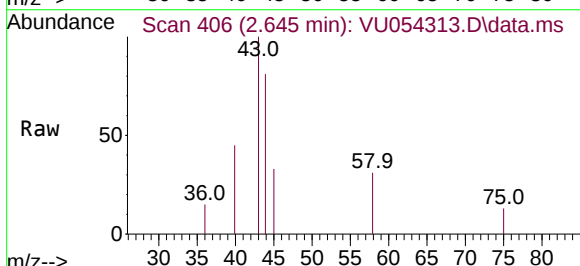
Acq: 30 May 2023 14:58

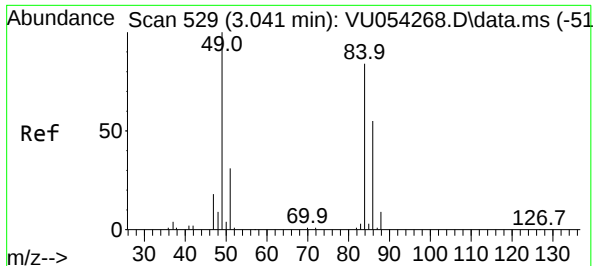
Tgt Ion: 43 Resp: 1997

Ion Ratio Lower Upper

43 100

58 31.0 27.5 41.3





#20

Methylene Chloride

Concen: 0.451 ug/l

RT: 3.044 min Scan# 51

Delta R.T. 0.003 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

Tgt Ion: 84 Resp: 1576

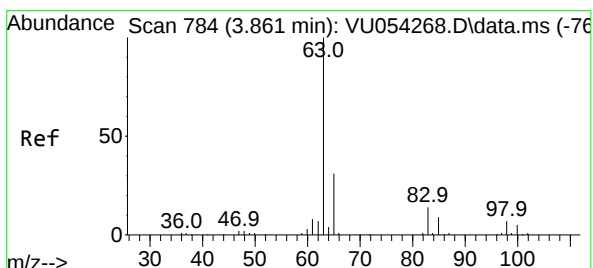
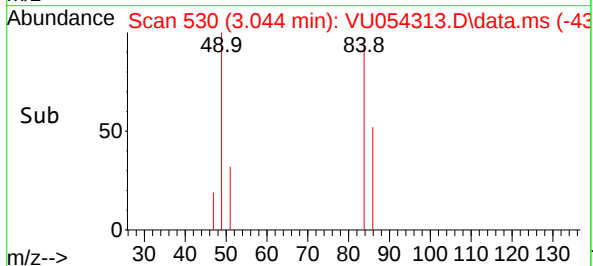
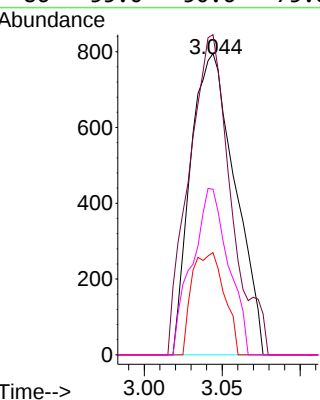
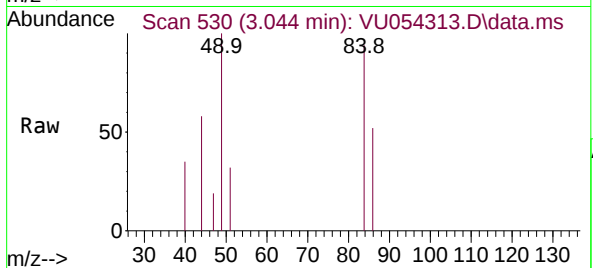
Ion Ratio Lower Upper

84 100

49 106.3 86.6 129.8

51 34.0 26.6 40.0

86 55.0 50.6 75.8



#24

1,1-Dichloroethane

Concen: 0.792 ug/l

RT: 3.870 min Scan# 787

Delta R.T. 0.009 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

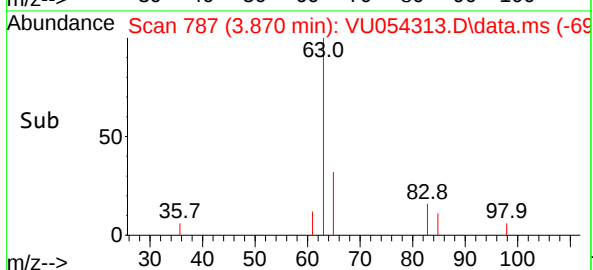
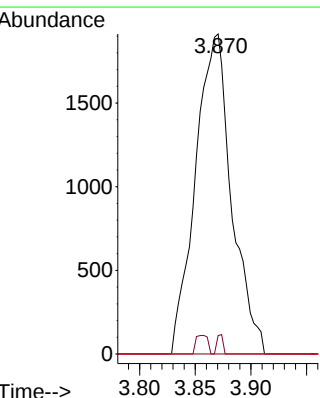
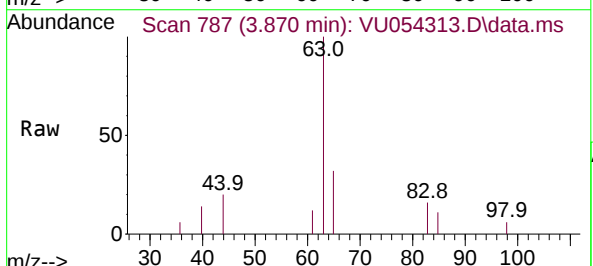
Tgt Ion: 63 Resp: 4321

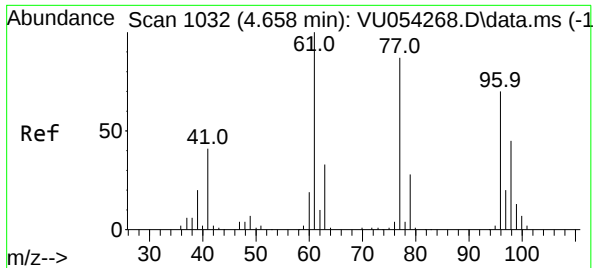
Ion Ratio Lower Upper

63 100

98 5.8 3.6 10.9

100 0.0 2.4 7.2#





#27

cis-1,2-Dichloroethene

Concen: 1.904 ug/l

RT: 4.665 min Scan# 1103

Delta R.T. 0.007 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

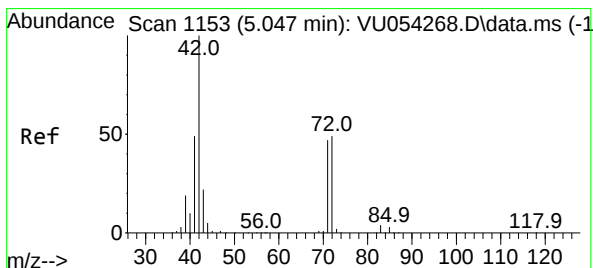
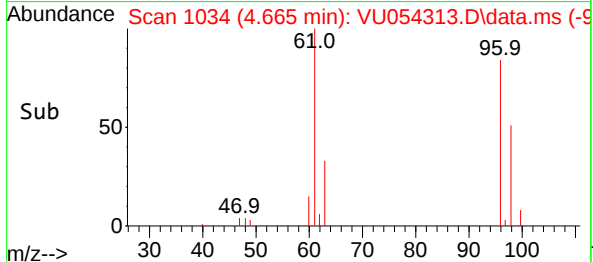
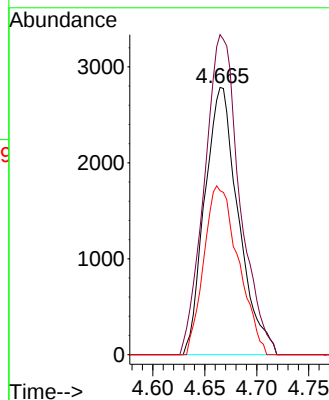
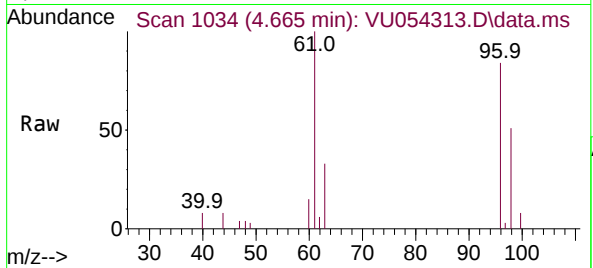
Tgt Ion: 96 Resp: 6283

Ion Ratio Lower Upper

96 100

61 125.4 0.0 271.6

98 64.6 0.0 128.2



#29

Tetrahydrofuran

Concen: 0.228 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.020 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

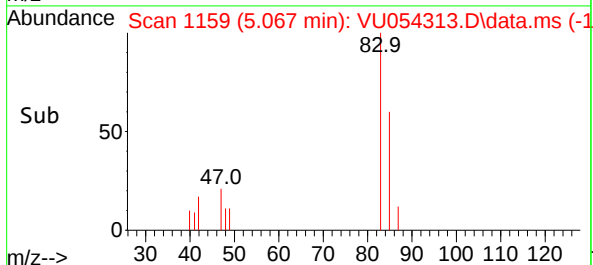
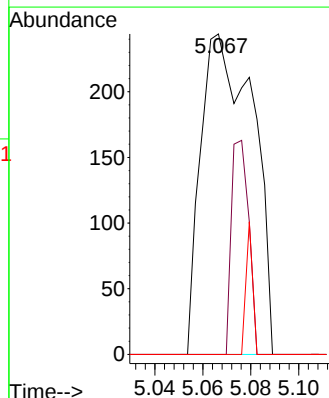
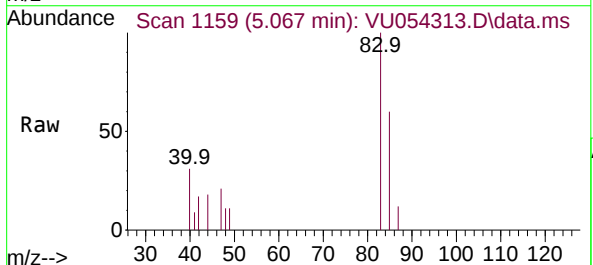
Tgt Ion: 42 Resp: 367

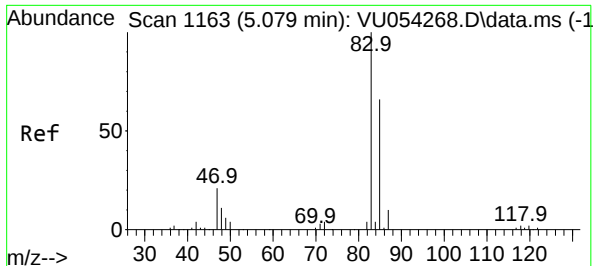
Ion Ratio Lower Upper

42 100

72 22.3 42.6 63.8#

71 5.2 40.3 60.5#





#30

Chloroform

Concen: 1.312 ug/l

RT: 5.083 min Scan# 1164

Delta R.T. 0.004 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

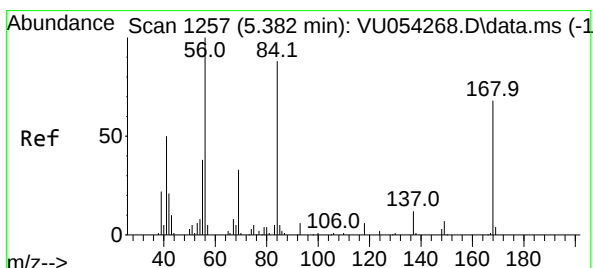
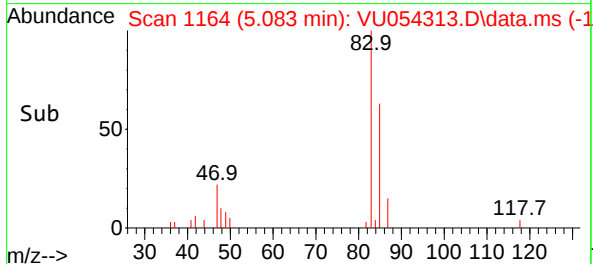
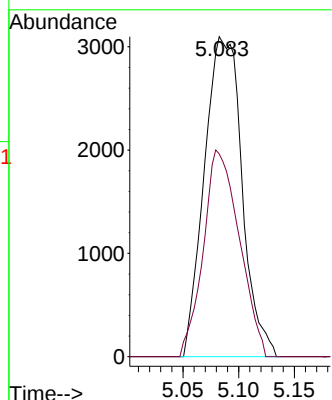
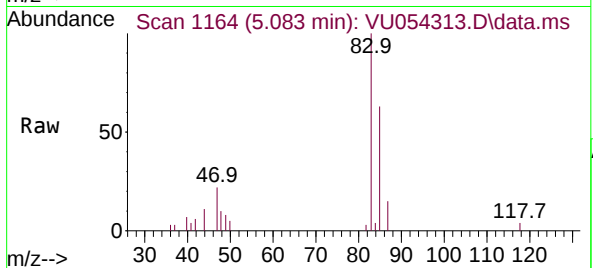
RE115D1-20230522

Tgt Ion: 83 Resp: 7275

Ion Ratio Lower Upper

83 100

85 63.3 51.2 76.8



#31

Cyclohexane

Concen: 0.986 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.013 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

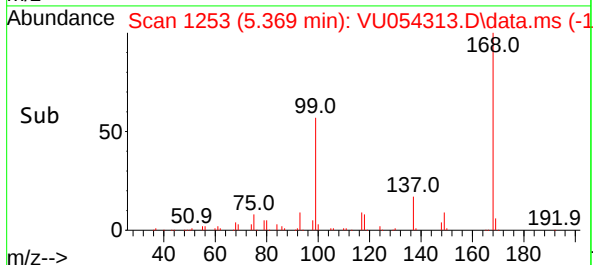
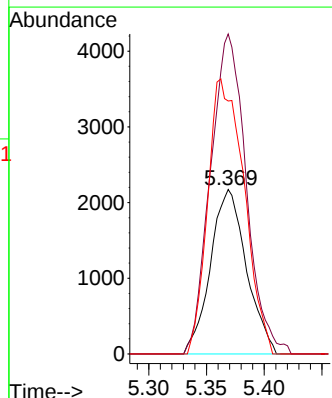
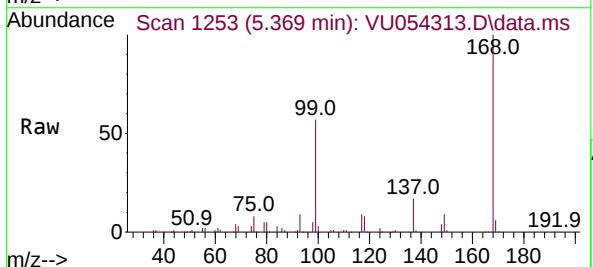
Tgt Ion: 56 Resp: 4701

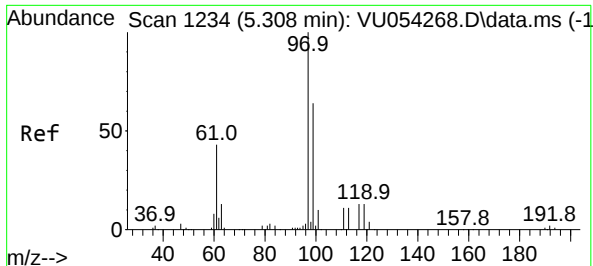
Ion Ratio Lower Upper

56 100

69 194.6 27.8 41.8#

84 153.8 74.2 111.4#

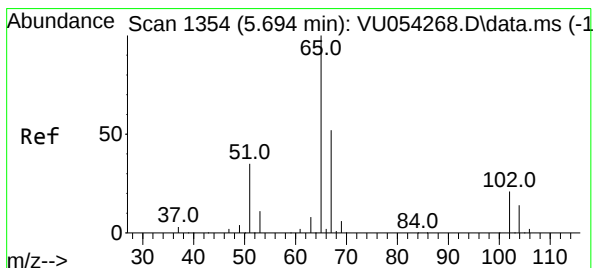
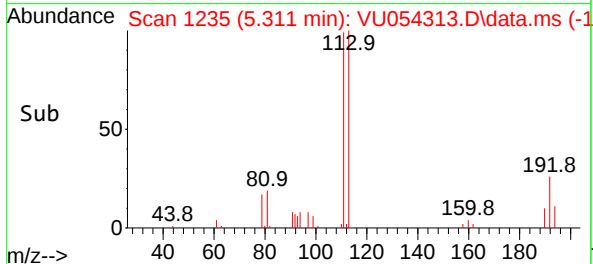
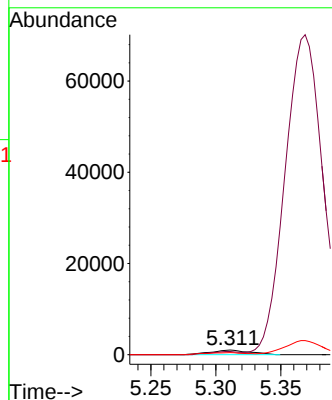
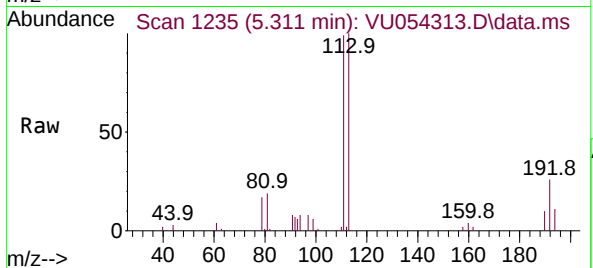




#32
1,1,1-Trichloroethane
Concen: 0.440 ug/l
RT: 5.311 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

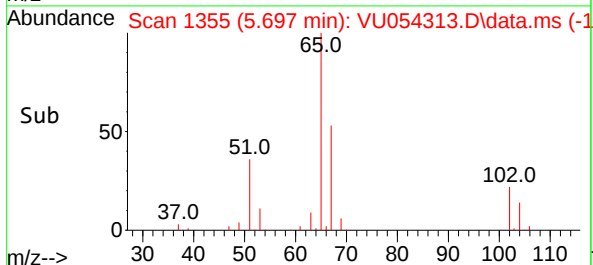
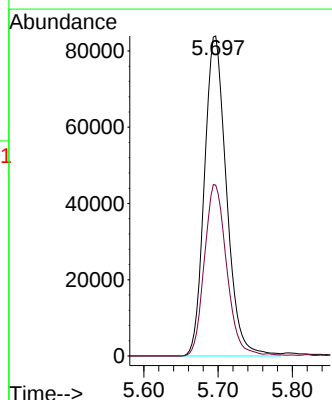
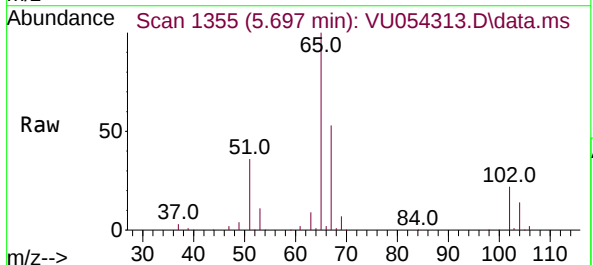
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

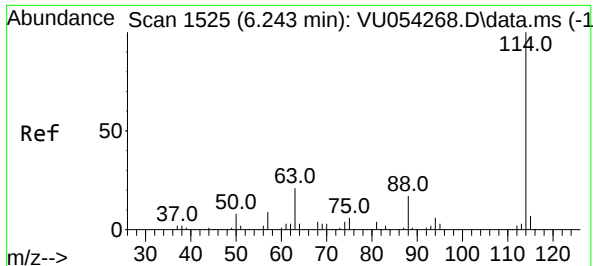
Tgt Ion: 97 Resp: 2119
Ion Ratio Lower Upper
97 100
99 0.0 51.8 77.6#
61 44.4 35.1 52.7



#33
1,2-Dichloroethane-d4
Concen: 51.258 ug/l
RT: 5.697 min Scan# 1355
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion: 65 Resp: 173114
Ion Ratio Lower Upper
65 100
67 53.9 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: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

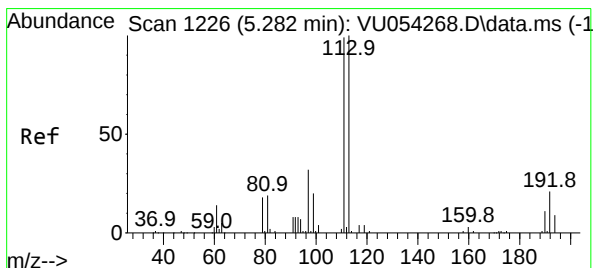
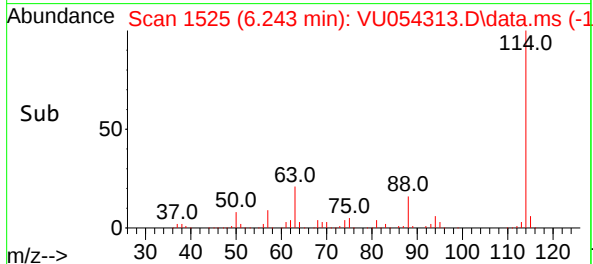
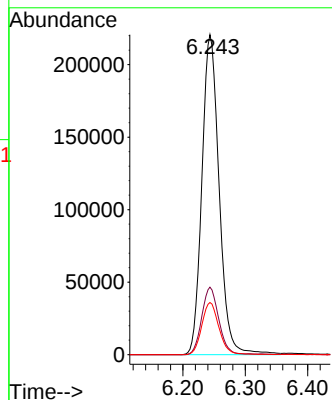
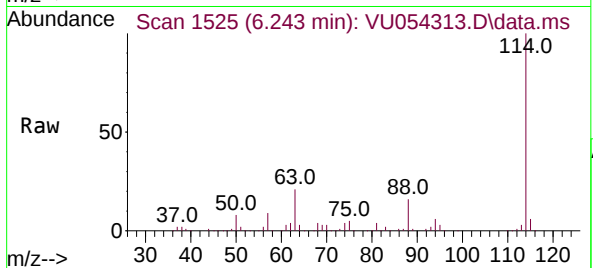
Tgt Ion:114 Resp: 424844

Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 16.3 0.0 29.2



#35

Dibromofluoromethane

Concen: 51.537 ug/l

RT: 5.285 min Scan# 1227

Delta R.T. 0.003 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

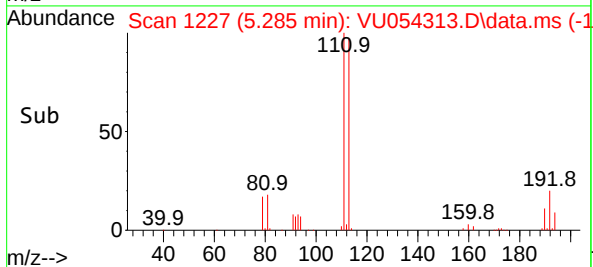
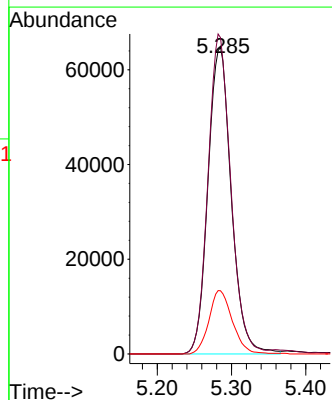
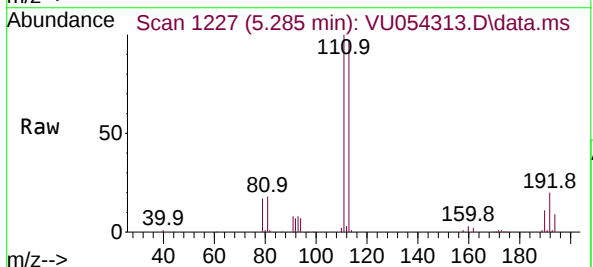
Tgt Ion:113 Resp: 141001

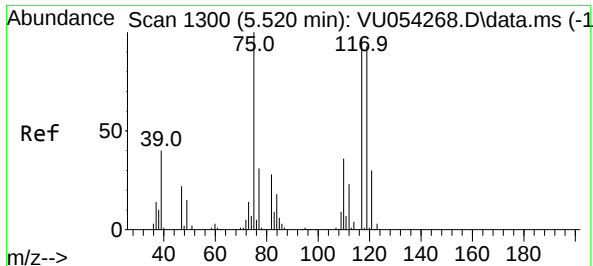
Ion Ratio Lower Upper

113 100

111 101.9 82.1 123.1

192 20.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

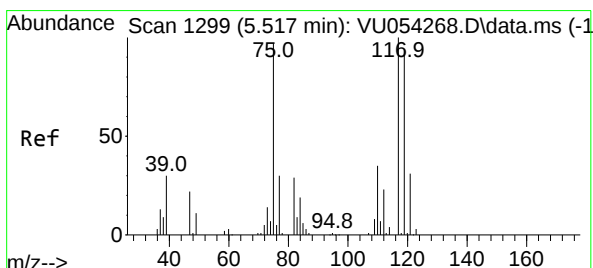
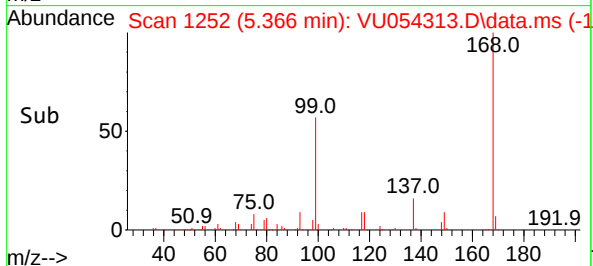
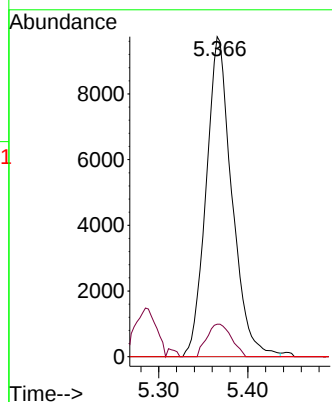
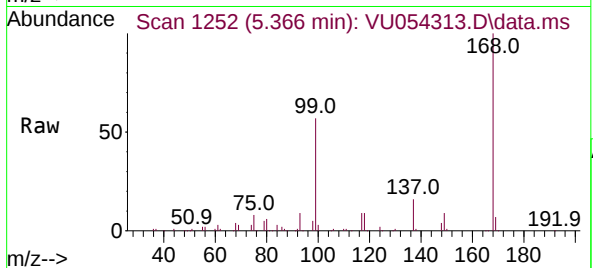
Tgt Ion: 75 Resp: 19551

Ion Ratio Lower Upper

75 100

110 9.7 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 1.885 ug/l

RT: 5.526 min Scan# 1302

Delta R.T. 0.009 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

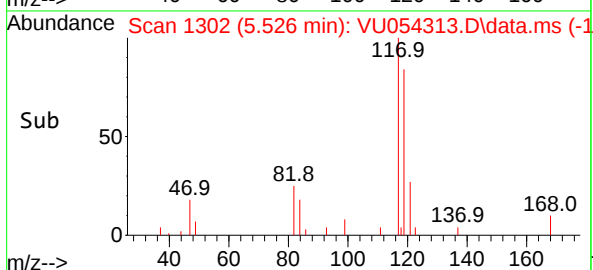
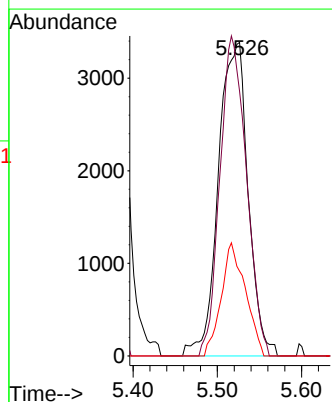
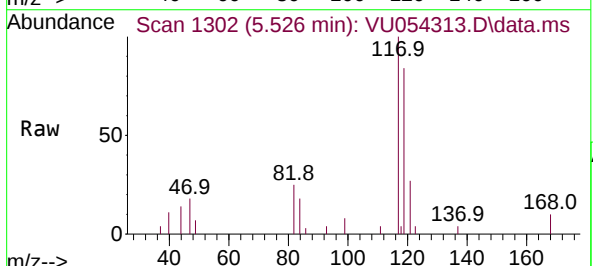
Tgt Ion: 117 Resp: 8289

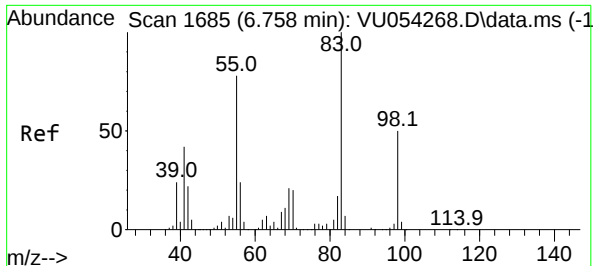
Ion Ratio Lower Upper

117 100

119 84.4 76.8 115.2

121 27.0 24.7 37.1





#39

Methylcyclohexane

Concen: 2.009 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.222 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

RE115D1-20230522

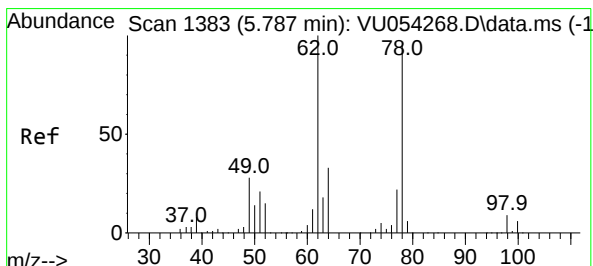
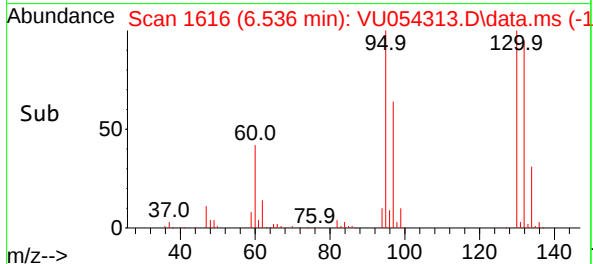
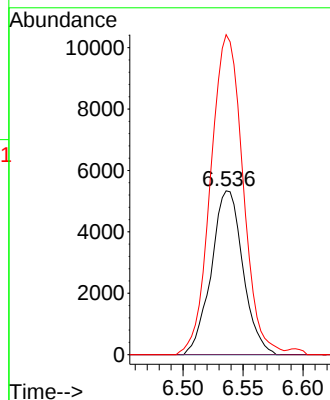
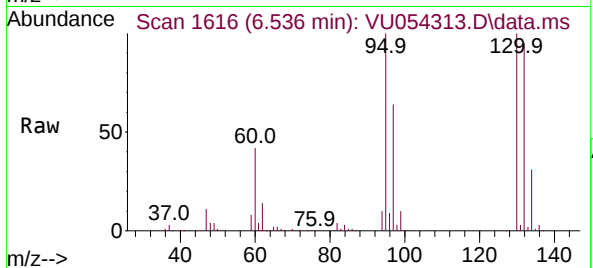
Tgt Ion: 83 Resp: 9780

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 193.3 37.3 55.9#



#42

1,2-Dichloroethane

Concen: 0.222 ug/l

RT: 5.796 min Scan# 1386

Delta R.T. 0.009 min

Lab File: VU054313.D

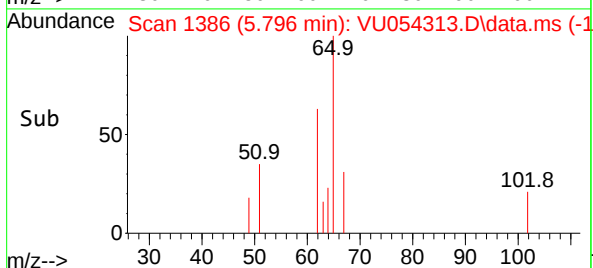
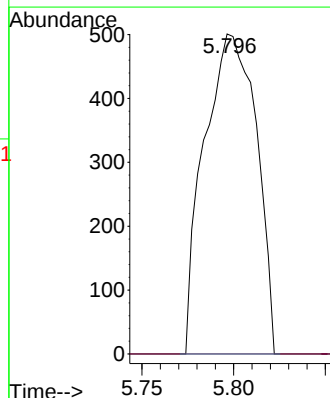
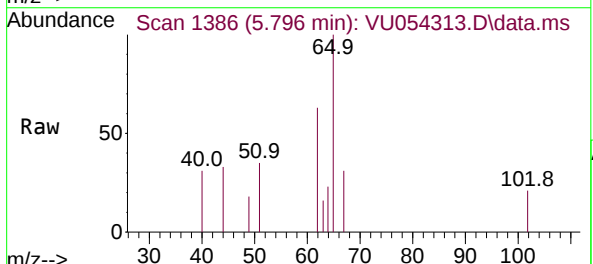
Acq: 30 May 2023 14:58

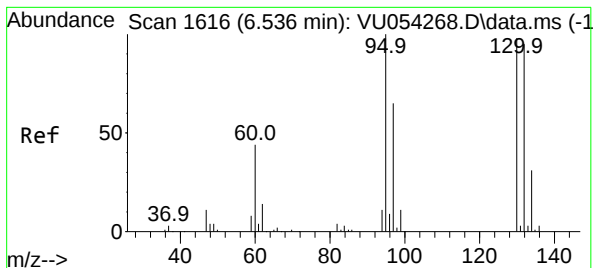
Tgt Ion: 62 Resp: 989

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6





#44

Trichloroethene

Concen: 227.446 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

Instrument :

MSVOA_U

ClientSampleId :

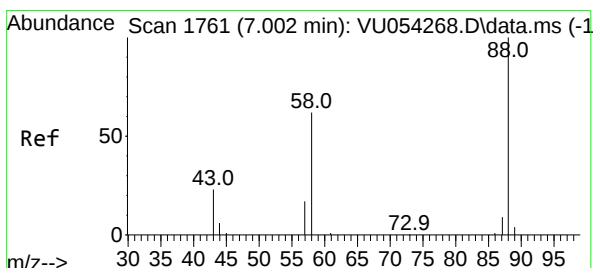
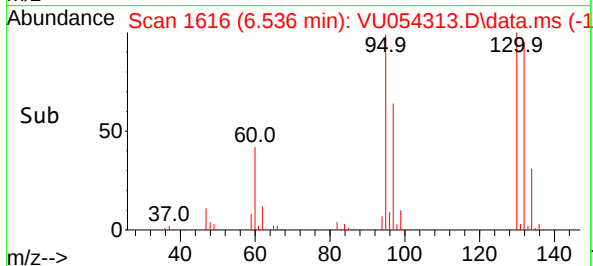
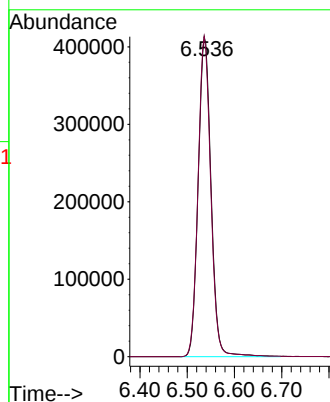
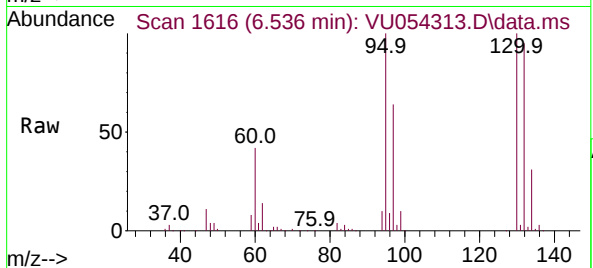
RE115D1-20230522

Tgt Ion:130 Resp: 779313

Ion Ratio Lower Upper

130 100

95 100.0 0.0 184.6



#49

1,4-Dioxane

Concen: 14.359 ug/l

RT: 7.012 min Scan# 1764

Delta R.T. 0.010 min

Lab File: VU054313.D

Acq: 30 May 2023 14:58

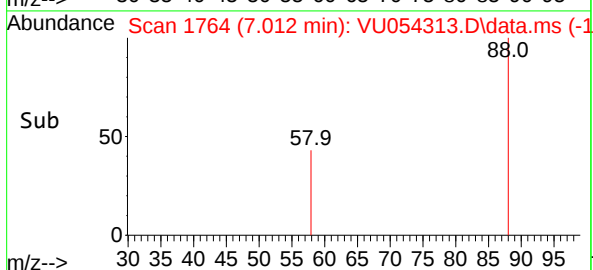
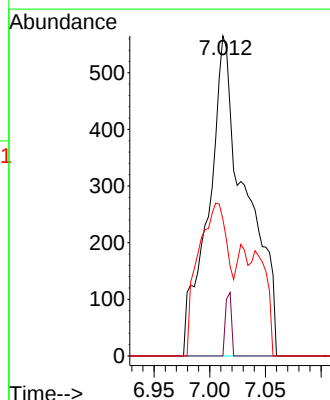
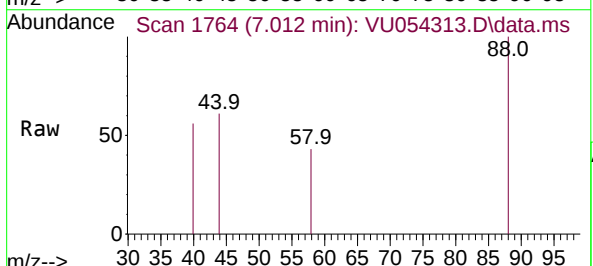
Tgt Ion: 88 Resp: 1328

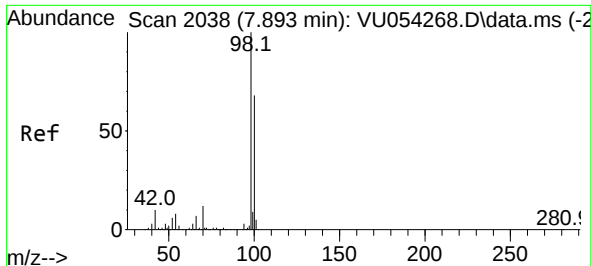
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 38.5 15.4 23.0#

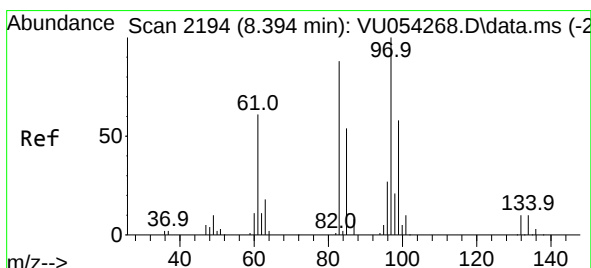
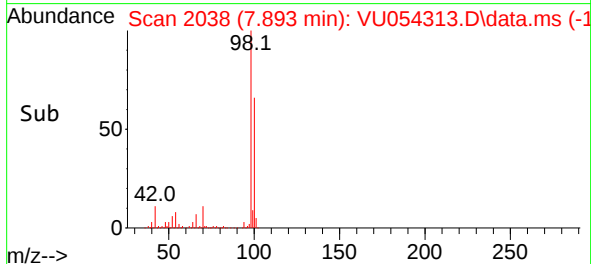
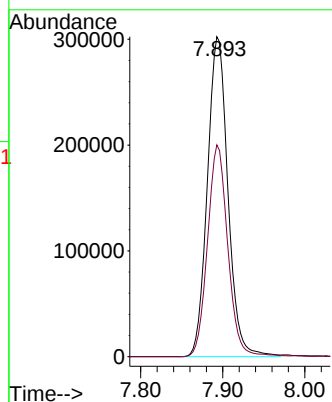
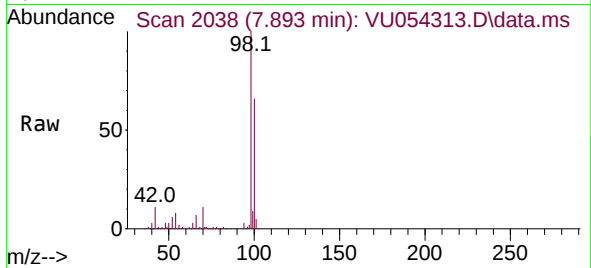




#50
Toluene-d8
Concen: 50.559 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

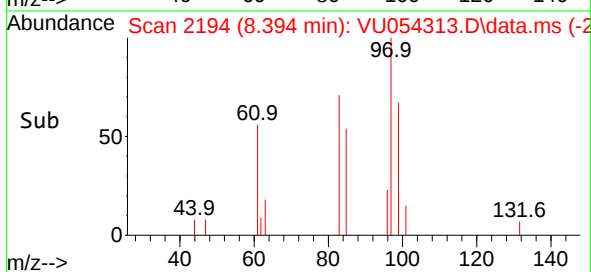
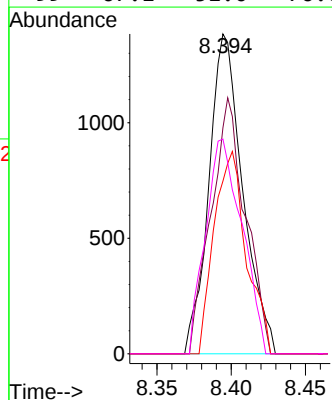
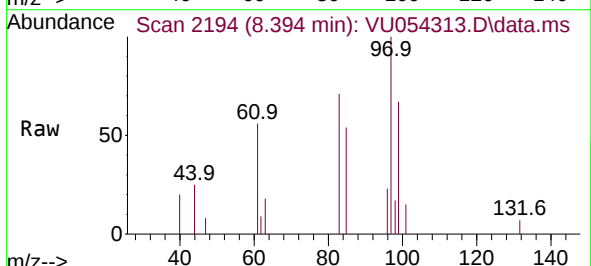
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

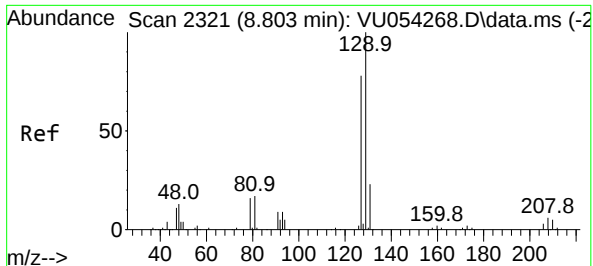
Tgt Ion: 98 Resp: 526144
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5



#55
1,1,2-Trichloroethane
Concen: 0.678 ug/l
RT: 8.394 min Scan# 2194
Delta R.T. 0.000 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion: 97 Resp: 2196
Ion Ratio Lower Upper
97 100
83 70.7 70.2 105.4
85 54.0 44.6 66.8
99 67.1 51.0 76.6

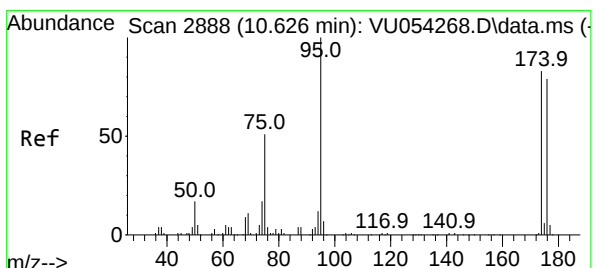
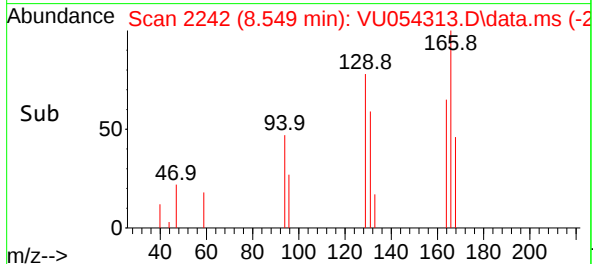
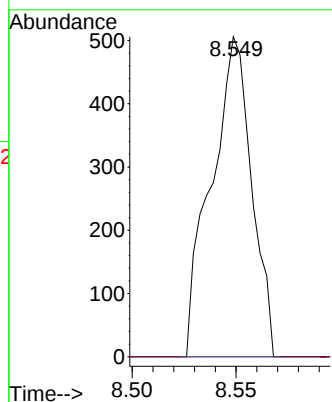
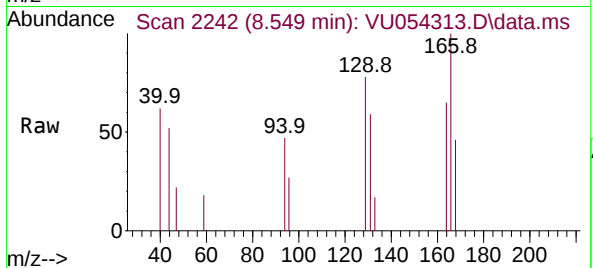




#60
Dibromochloromethane
Concen: 0.208 ug/l
RT: 8.549 min Scan# 211
Delta R.T. -0.254 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

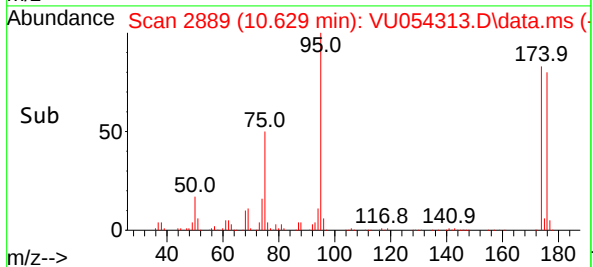
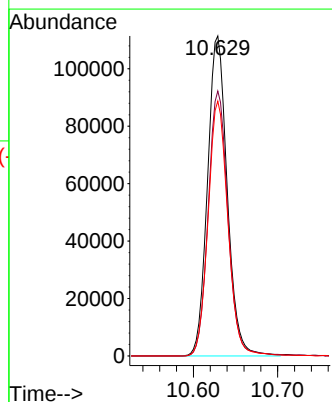
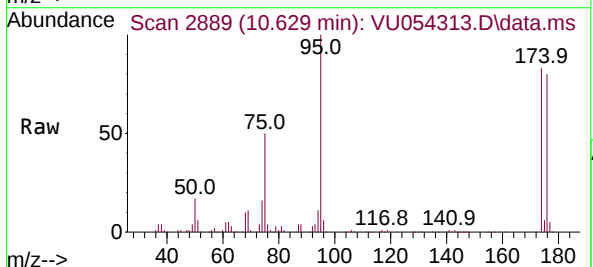
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

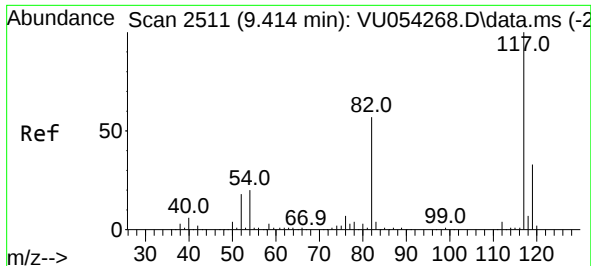
Tgt Ion:129 Resp: 685
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 44.956 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion: 95 Resp: 181400
Ion Ratio Lower Upper
95 100
174 82.9 0.0 182.0
176 80.2 0.0 177.8

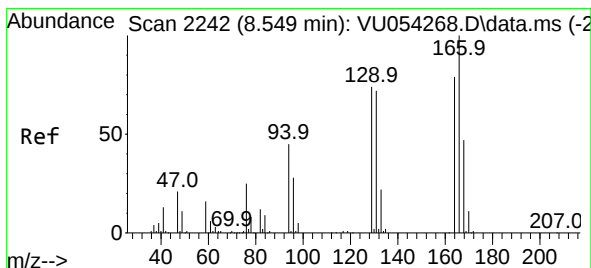
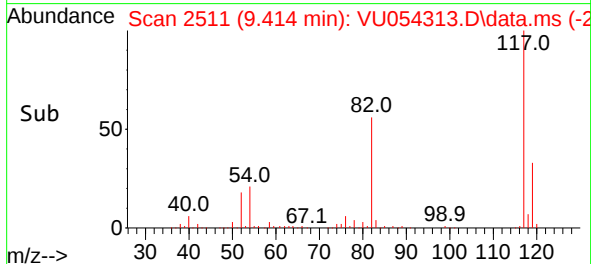
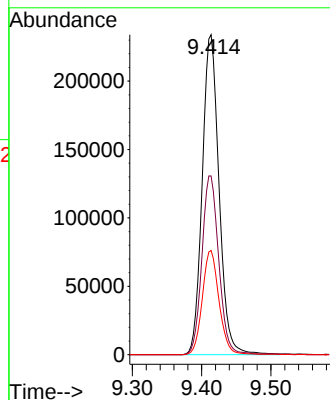
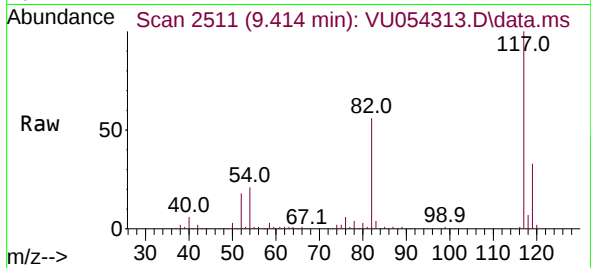




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

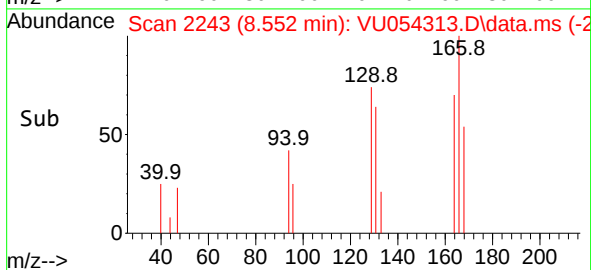
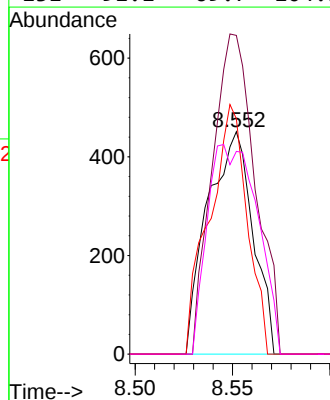
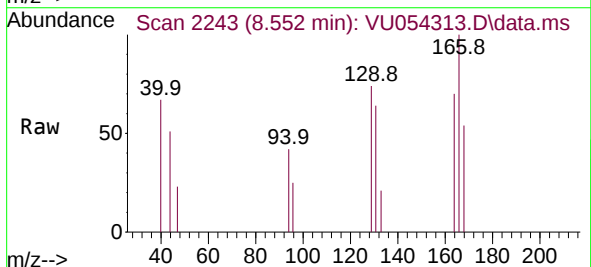
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

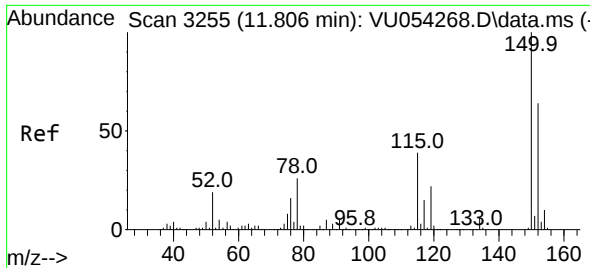
Tgt Ion:117 Resp: 395073
Ion Ratio Lower Upper
117 100
82 55.8 41.7 62.5
119 32.5 25.7 38.5



#64
Tetrachloroethene
Concen: 0.245 ug/l
RT: 8.552 min Scan# 2243
Delta R.T. 0.003 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion:164 Resp: 729
Ion Ratio Lower Upper
164 100
166 143.2 100.0 150.0
129 105.8 72.0 108.0
131 91.1 69.7 104.5

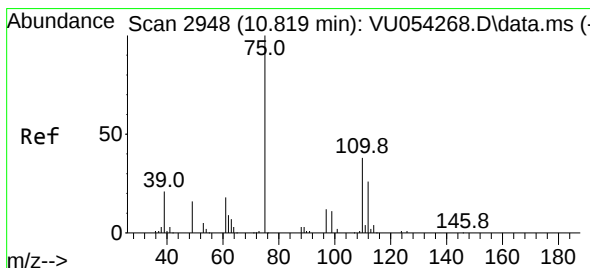
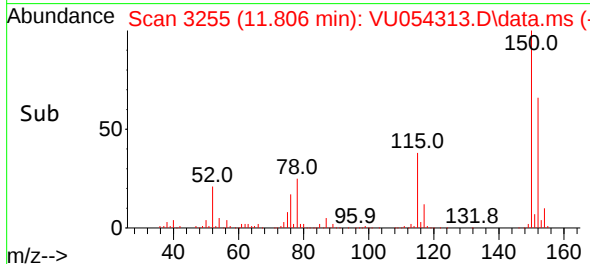
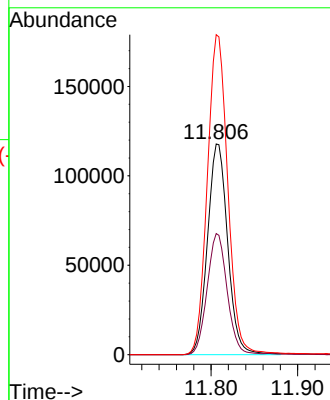
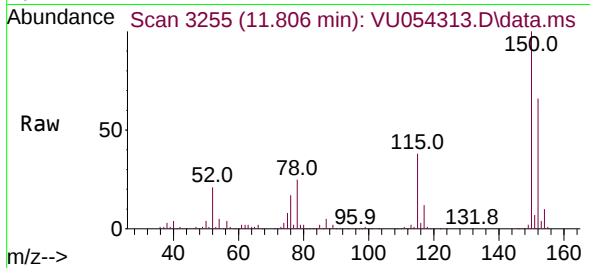




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU054313.D
 Acq: 30 May 2023 14:58

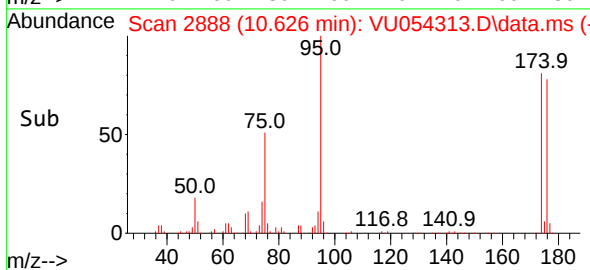
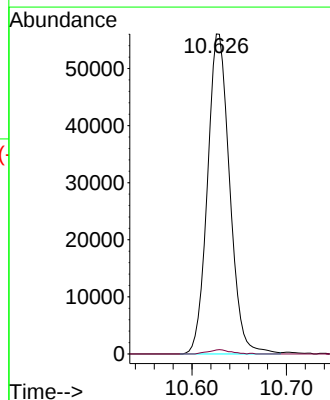
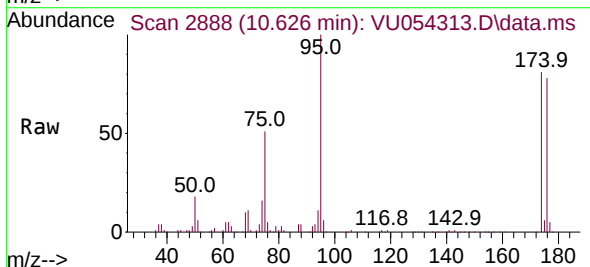
Instrument :
 MSVOA_U
 ClientSampleId :
 RE115D1-20230522

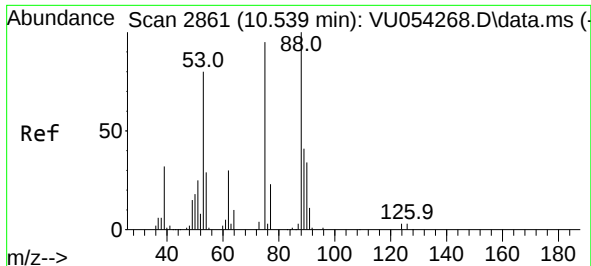
Tgt Ion:152 Resp: 191055
 Ion Ratio Lower Upper
 152 100
 115 56.7 37.0 110.9
 150 153.9 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 16.376 ug/l
 RT: 10.626 min Scan# 2888
 Delta R.T. -0.193 min
 Lab File: VU054313.D
 Acq: 30 May 2023 14:58

Tgt Ion: 75 Resp: 91315
 Ion Ratio Lower Upper
 75 100
 77 1.3 15.8 47.3#

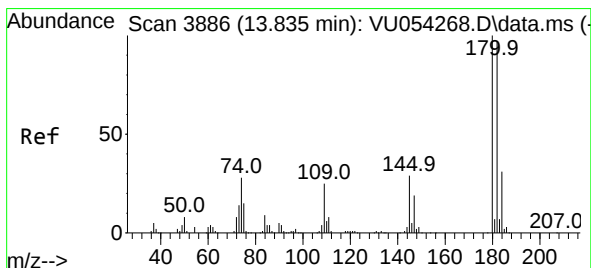
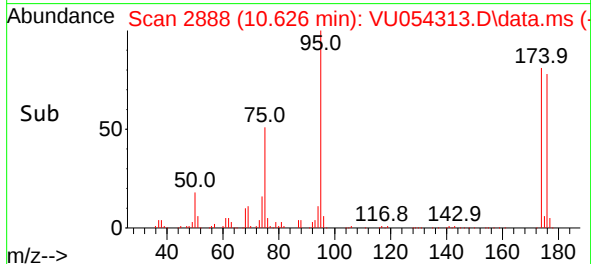
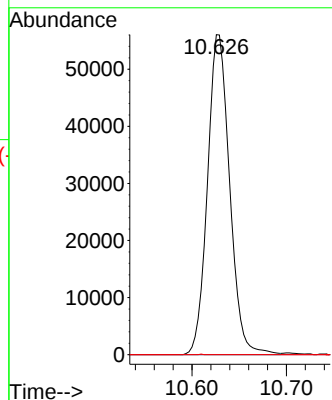
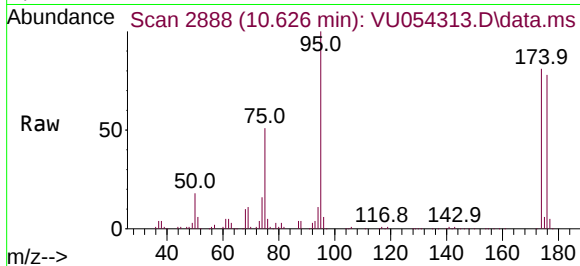




#81
trans-1,4-Dichloro-2-butene
Concen: 62.359 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

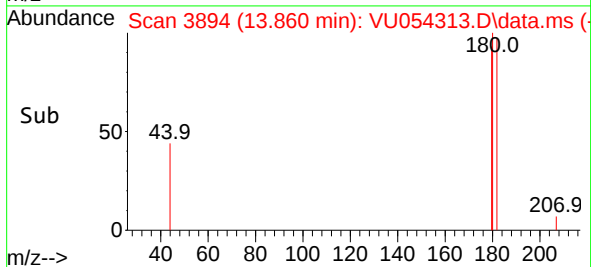
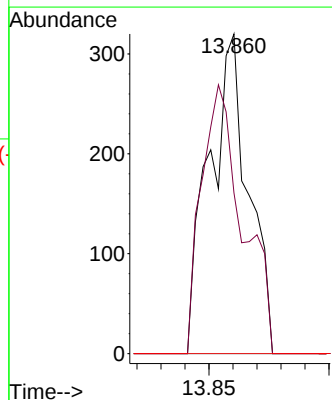
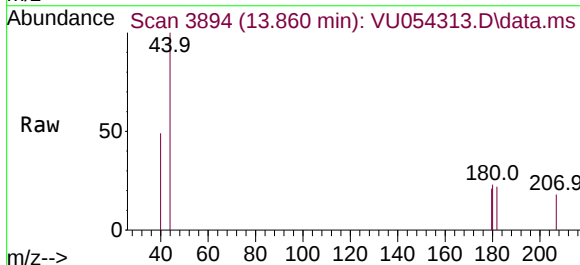
Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

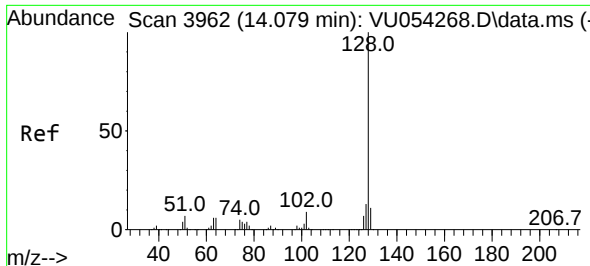
Tgt Ion: 75 Resp: 91315
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.723 ug/l
RT: 13.860 min Scan# 3894
Delta R.T. 0.025 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion:180 Resp: 363
Ion Ratio Lower Upper
180 100
182 88.2 47.9 143.6
145 0.0 14.0 41.9#

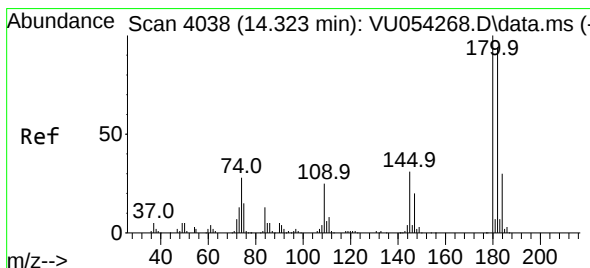
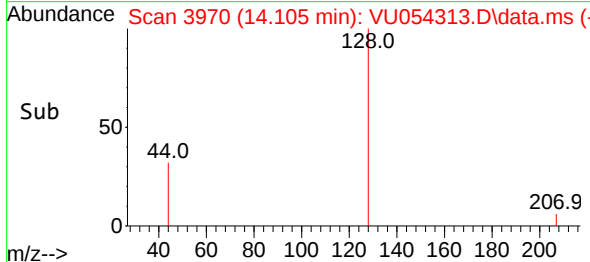
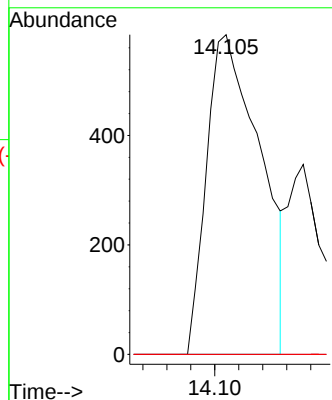
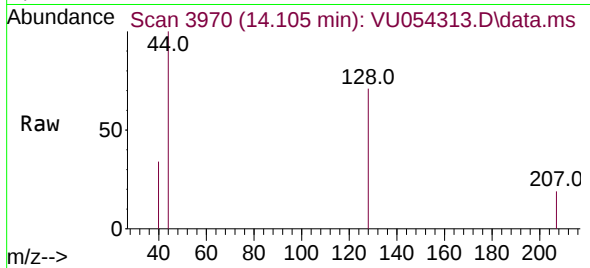




#95
Naphthalene
Concen: 2.053 ug/l
RT: 14.105 min Scan# 3962
Delta R.T. 0.026 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Instrument :
MSVOA_U
ClientSampleId :
RE115D1-20230522

Tgt Ion:128 Resp: 909
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: 1.302 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.010 min
Lab File: VU054313.D
Acq: 30 May 2023 14:58

Tgt Ion:180 Resp: 211
Ion Ratio Lower Upper
180 100
182 119.0 48.4 145.0
145 0.0 14.8 44.4#

