

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031523\
 Data File : VU053190.D
 Acq On : 15 Mar 2023 09:49
 Operator : JC/MD
 Sample : VSTD00505
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005005

Quant Time: Mar 16 03:44:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 16 03:43:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	177726	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	169139	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	85317	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	8015	4.882	ug/L	0.00
7) Chloroethane-d5	1.916	69	6513	4.764	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.572	63	14225	5.071	ug/L	0.00
21) 2-Butanone-d5	4.636	46	6135	7.305	ug/L	0.01
24) Chloroform-d	5.063	84	13433	4.737	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.700	65	8411	4.679	ug/L	0.00
32) Benzene-d6	5.726	84	27408	4.639	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.687	67	8882	4.609	ug/L	0.00
41) Toluene-d8	7.896	98	25648	4.690	ug/L	0.00
43) trans-1,3-Dichloroprop...	8.179	79	4159	4.257	ug/L	0.00
47) 2-Hexanone-d5	8.636	63	4865	7.444	ug/L	0.00
56) 1,1,2,2-Tetrachloroeth...	10.751	84	10683	4.170	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.192	152	8343	4.527	ug/L	0.00
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.385	85	8894	4.877	ug/L	96
3) Chloromethane	1.520	50	8538	4.830	ug/L	96
5) Vinyl chloride	1.607	62	8969	4.729	ug/L	96
6) Bromomethane	1.858	94	4850	4.038	ug/L	95
8) Chloroethane	1.938	64	5290	4.603	ug/L	99
9) Trichlorofluoromethane	2.141	101	11234	4.603	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	6649	4.781	ug/L	97
12) 1,1-Dichloroethene	2.581	96	6329	4.842	ug/L	92
13) Acetone	2.639	43	9122	15.035	ug/L	91
14) Carbon disulfide	2.793	76	18777	4.457	ug/L	95
15) Methyl Acetate	2.951	43	5635	4.780	ug/L #	88
16) Methylene chloride	3.047	84	8651	5.714	ug/L	91
17) trans-1,2-Dichloroethene	3.353	96	6083	4.569	ug/L	94
18) Methyl tert-butyl Ether	3.363	73	20485	4.587	ug/L	98
19) 1,1-Dichloroethane	3.867	63	12890	4.908	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	7346	4.726	ug/L	98
22) 2-Butanone	4.713	43	8504	9.868	ug/L #	61
23) Bromochloromethane	4.973	128	3579	4.890	ug/L	93
25) Chloroform	5.086	83	12709	4.744	ug/L	99
27) 1,2-Dichloroethane	5.793	62	10371	4.994	ug/L #	94
29) Cyclohexane	5.385	56	12542	5.015	ug/L	96
30) 1,1,1-Trichloroethane	5.314	97	11242	4.784	ug/L	98
31) Carbon tetrachloride	5.523	117	9089	4.573	ug/L	97
33) Benzene	5.774	78	28872	4.860	ug/L	100
34) Trichloroethene	6.539	95	7378	4.771	ug/L	92
35) Methylcyclohexane	6.761	83	13193	4.930	ug/L	97
37) 1,2-Dichloropropane	6.787	63	8157	4.960	ug/L #	97
38) Bromodichloromethane	7.102	83	9362	4.538	ug/L	96
39) cis-1,3-Dichloropropene	7.607	75	12458	4.612	ug/L	97
40) 4-Methyl-2-pentanone	7.790	43	15803	9.012	ug/L	98
42) Toluene	7.967	91	30439	4.791	ug/L	98
44) trans-1,3-Dichloropropene	8.208	75	11129	4.467	ug/L	96

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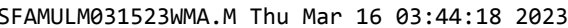
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005005

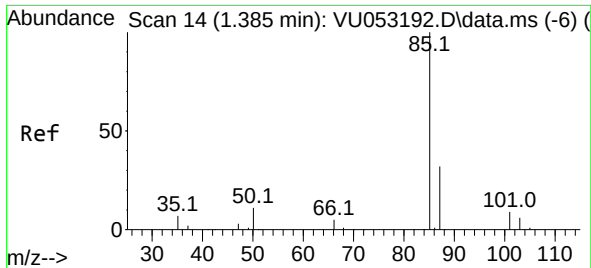
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.398	97	7245	4.872	ug/L	98
46) Tetrachloroethene	8.552	164	4762	4.675	ug/L	91
48) 2-Hexanone	8.684	43	13717	9.763	ug/L #	95
49) Dibromochloromethane	8.806	129	7045	4.575	ug/L	98
50) 1,2-Dibromoethane	8.922	107	7573	4.771	ug/L #	95
51) Chlorobenzene	9.446	112	18672	4.749	ug/L	96
52) Ethylbenzene	9.568	91	33795	4.772	ug/L	99
53) m,p-Xylene	9.690	106	12329	4.642	ug/L	97
54) o-Xylene	10.095	106	12226	4.632	ug/L	95
55) Styrene	10.111	104	19432	4.430	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.777	83	11226	4.619	ug/L	94
59) Bromoform	10.288	173	4461	4.296	ug/L #	97
60) 1,2,3-Trichloropropane	10.822	75	8477	4.780	ug/L	97
61) Isopropylbenzene	10.481	105	33288	4.898	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	26474	4.610	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	25683	4.604	ug/L	98
64) 1,3-Dichlorobenzene	11.742	146	13534	4.822	ug/L	98
65) 1,4-Dichlorobenzene	11.835	146	13515	4.753	ug/L	95
67) 1,2-Dichlorobenzene	12.211	146	13796	4.889	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.992	75	2039	3.942	ug/L	85
69) 1,3,5-Trichlorobenzene	13.217	180	7565	3.988	ug/L	94
70) 1,2,4-trichlorobenzene	13.838	180	6378	3.564	ug/L	99
71) Naphthalene	14.089	128	20865	3.058	ug/L	99
72) 1,2,3-Trichlorobenzene	14.330	180	5880	3.300	ug/L	93

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

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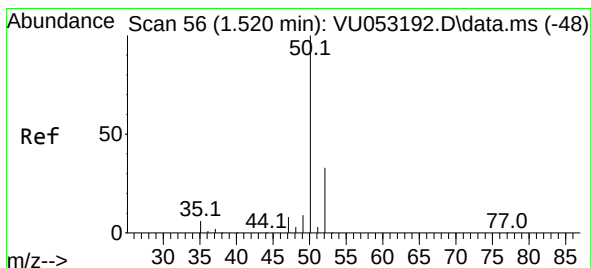
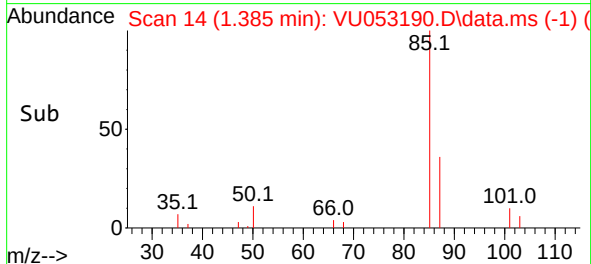
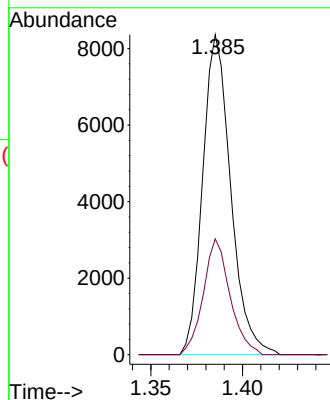
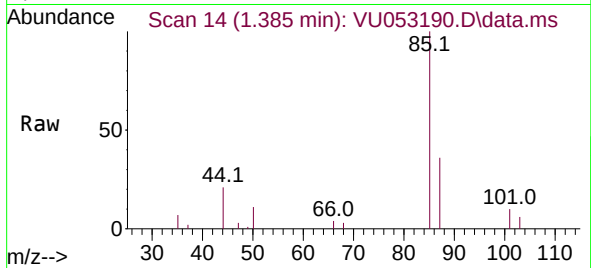




#2
Dichlorodifluoromethane
Concen: 4.877 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

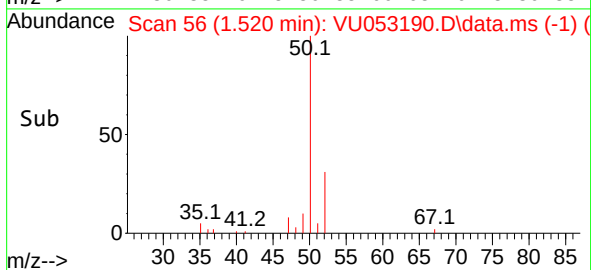
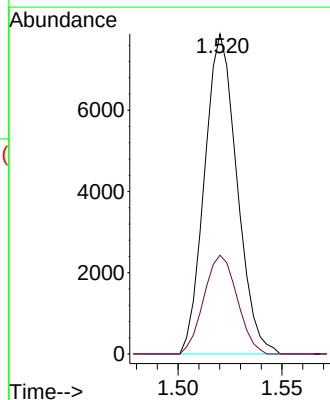
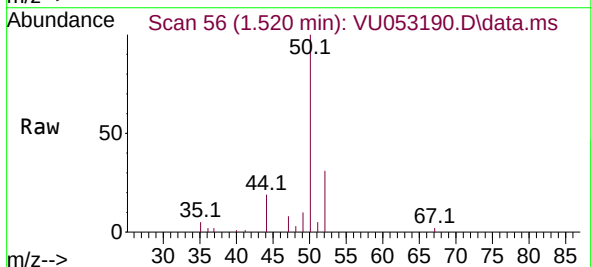
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

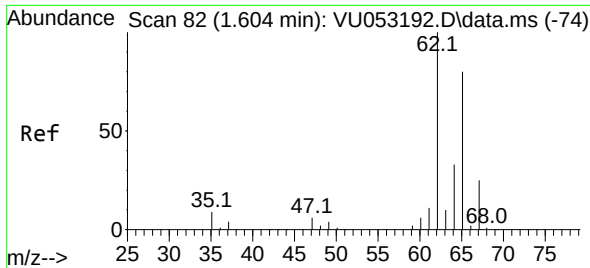
Tgt Ion: 85 Resp: 8894
Ion Ratio Lower Upper
85 100
87 34.5 25.8 38.8



#3
Chloromethane
Concen: 4.830 ug/L
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 50 Resp: 8538
Ion Ratio Lower Upper
50 100
52 30.9 23.4 43.4

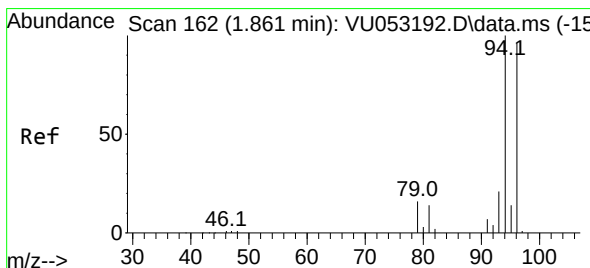
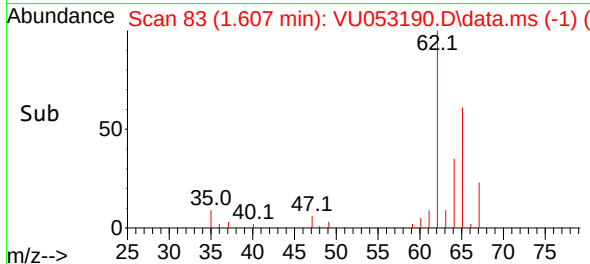
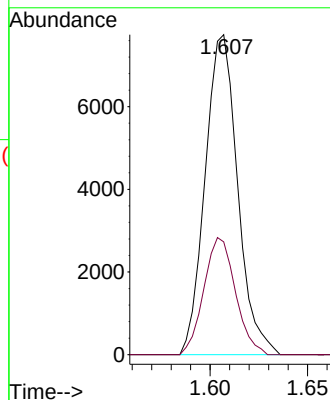
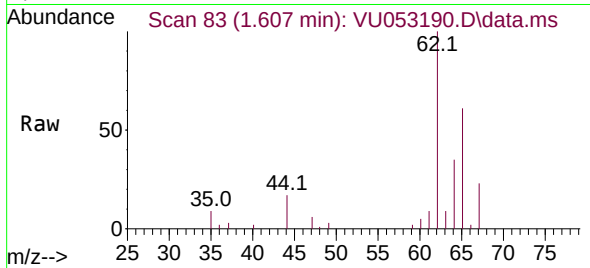




#5
 Vinyl chloride
 Concen: 4.729 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

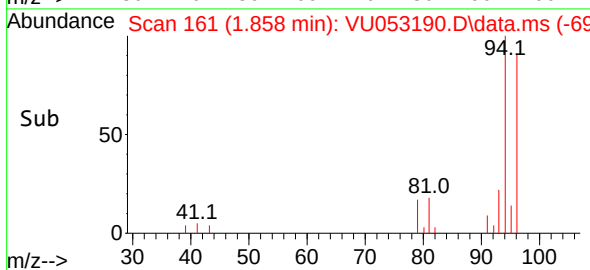
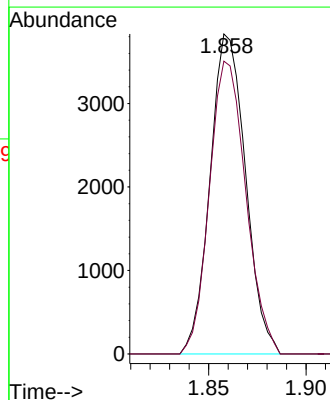
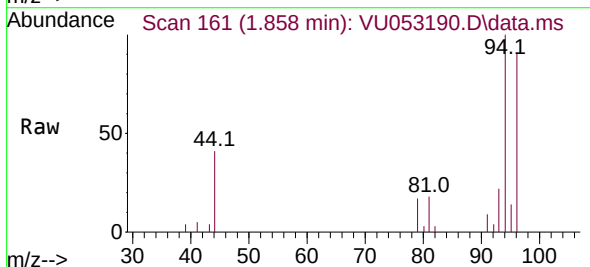
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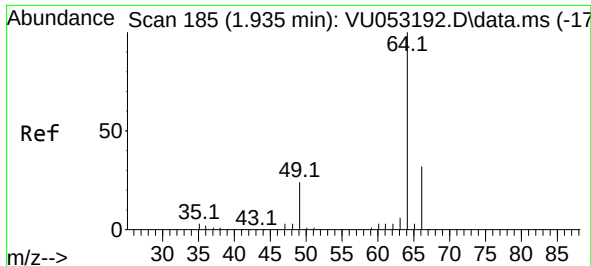
Tgt Ion: 62 Resp: 8969
 Ion Ratio Lower Upper
 62 100
 64 35.2 23.2 43.0



#6
 Bromomethane
 Concen: 4.038 ug/L
 RT: 1.858 min Scan# 161
 Delta R.T. -0.003 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

Tgt Ion: 94 Resp: 4850
 Ion Ratio Lower Upper
 94 100
 96 91.5 67.5 125.3

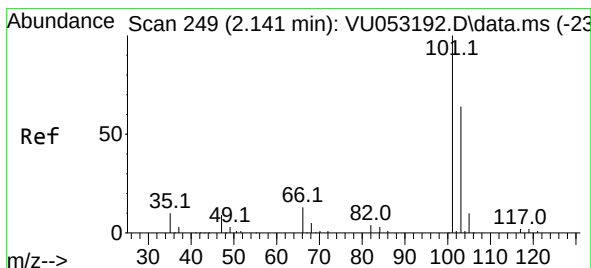
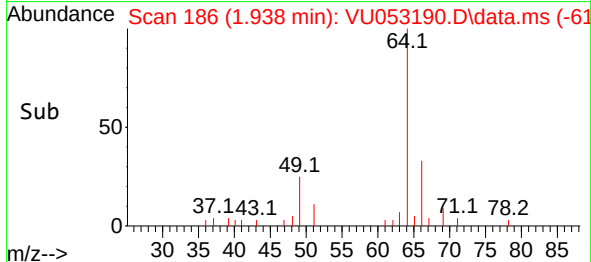
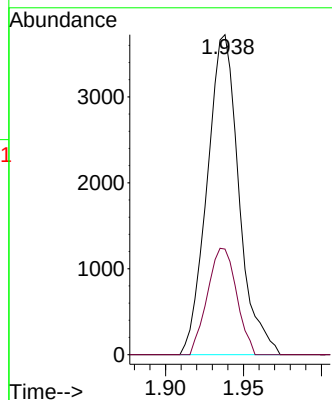
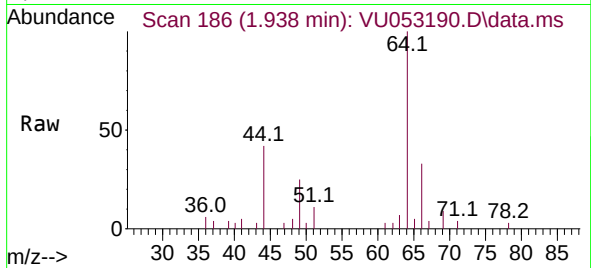




#8
Chloroethane
Concen: 4.603 ug/L
RT: 1.938 min Scan# 186
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

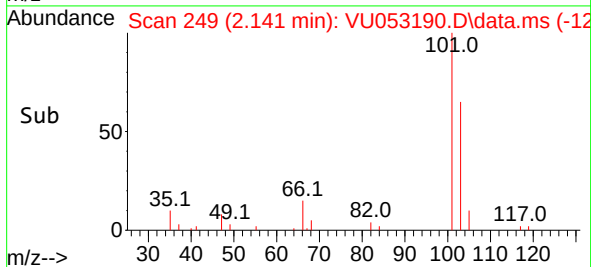
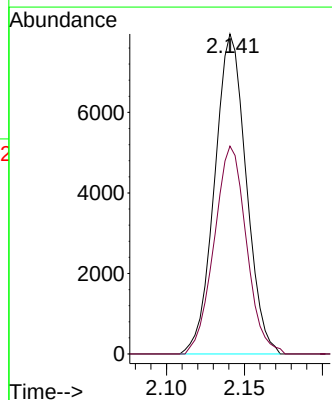
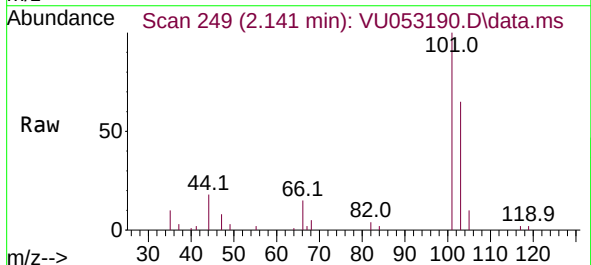
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ClientSampleId :
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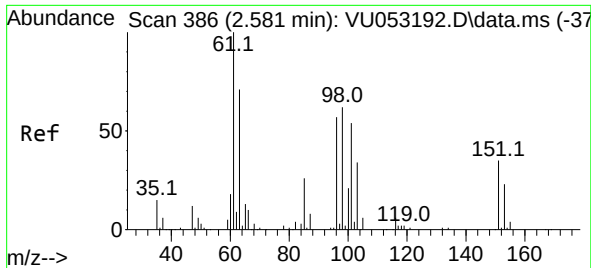
Tgt Ion: 64 Resp: 5290
Ion Ratio Lower Upper
64 100
66 33.0 22.6 42.0



#9
Trichlorofluoromethane
Concen: 4.603 ug/L
RT: 2.141 min Scan# 249
Delta R.T. 0.000 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 101 Resp: 11234
Ion Ratio Lower Upper
101 100
103 66.2 52.0 78.0

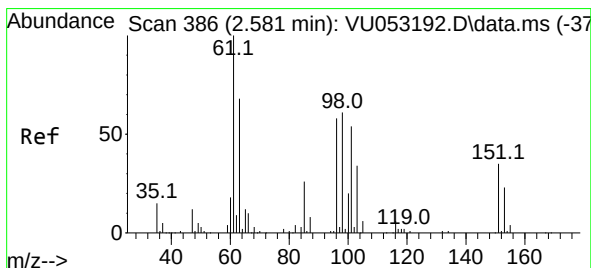
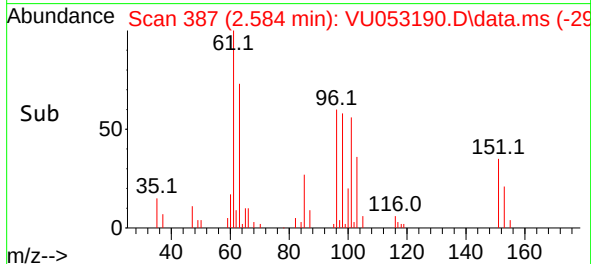
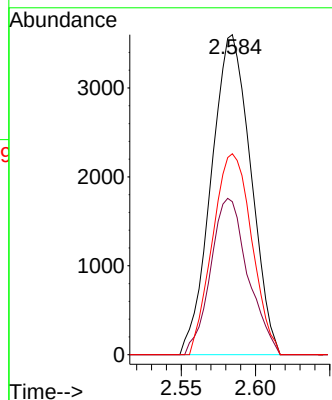
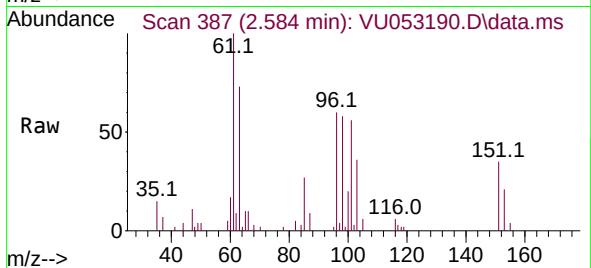




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 4.781 ug/L
 RT: 2.584 min Scan# 387
 Delta R.T. 0.003 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

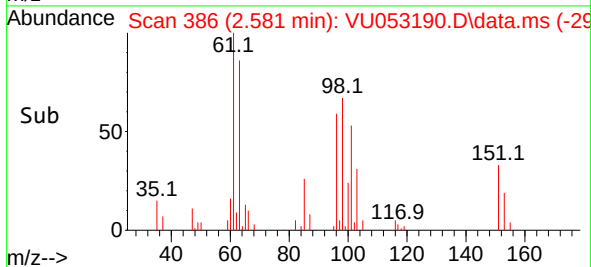
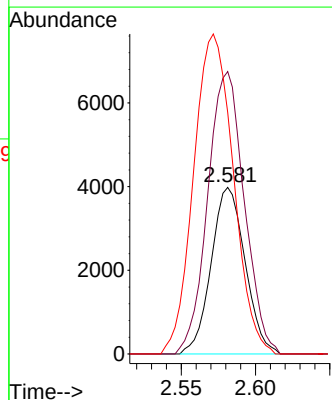
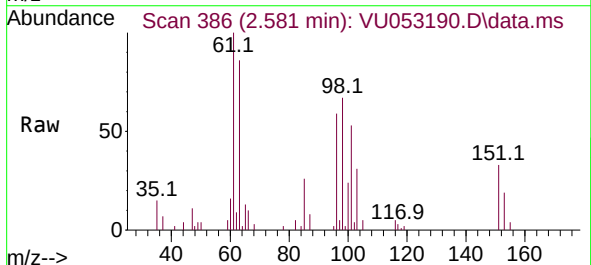
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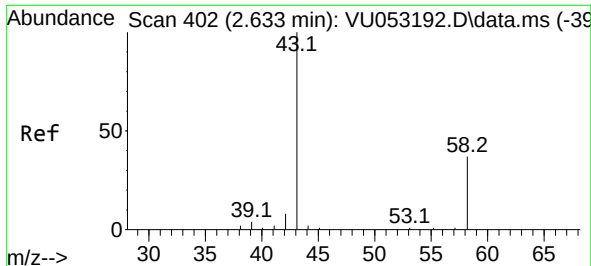
Tgt Ion:101 Resp: 6649
 Ion Ratio Lower Upper
 101 100
 85 46.2 37.0 55.6
 151 62.5 52.9 79.3



#12
 1,1-Dichloroethene
 Concen: 4.842 ug/L
 RT: 2.581 min Scan# 386
 Delta R.T. 0.000 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

Tgt Ion: 96 Resp: 6329
 Ion Ratio Lower Upper
 96 100
 61 169.5 122.2 226.9
 63 145.0 89.9 166.9





#13

Acetone

Concen: 15.035 ug/L

RT: 2.639 min Scan# 402

Delta R.T. 0.007 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

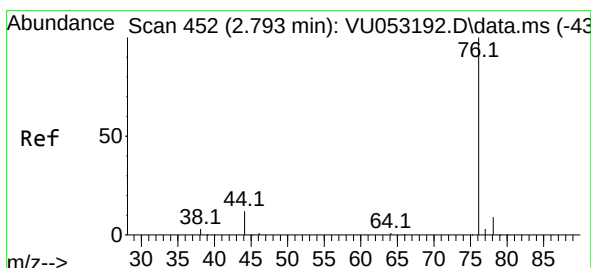
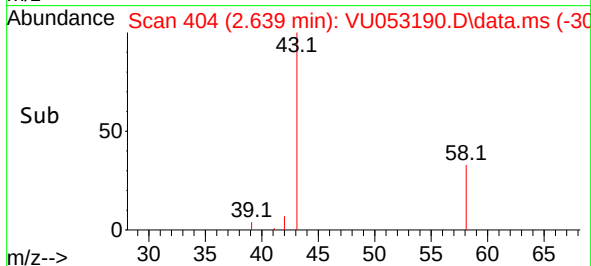
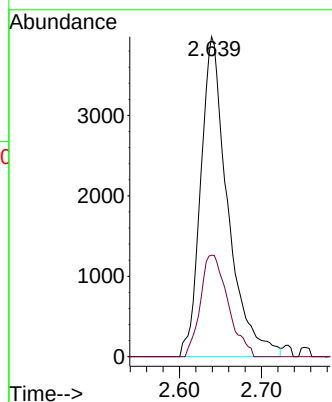
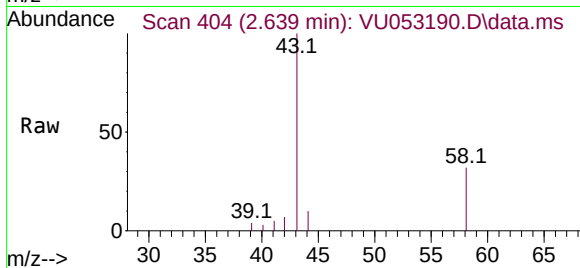
VSTD005005

Tgt Ion: 43 Resp: 9122

Ion Ratio Lower Upper

43 100

58 32.4 0.0 75.0



#14

Carbon disulfide

Concen: 4.457 ug/L

RT: 2.793 min Scan# 452

Delta R.T. 0.000 min

Lab File: VU053190.D

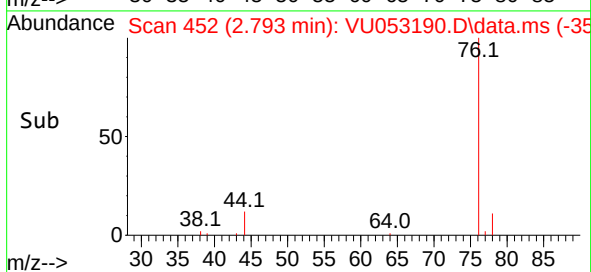
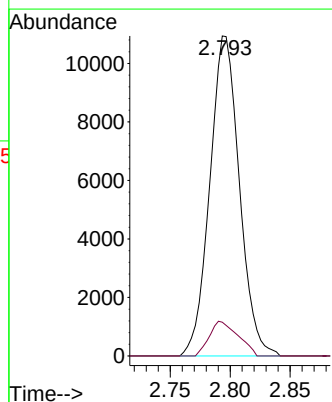
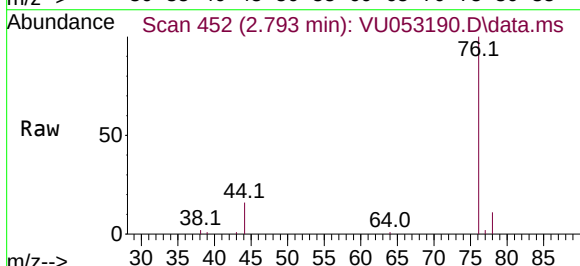
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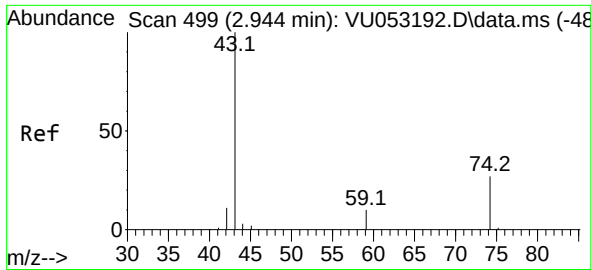
Tgt Ion: 76 Resp: 18777

Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6

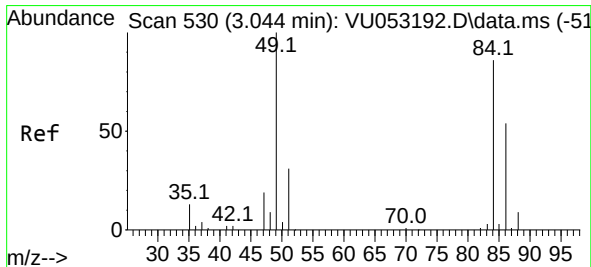
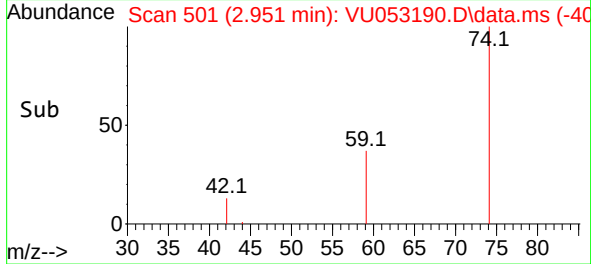
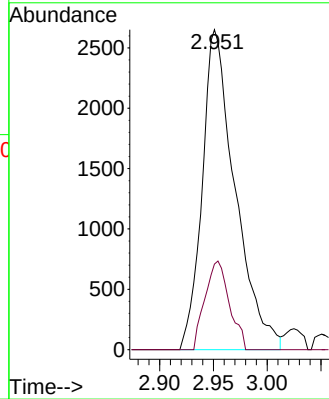
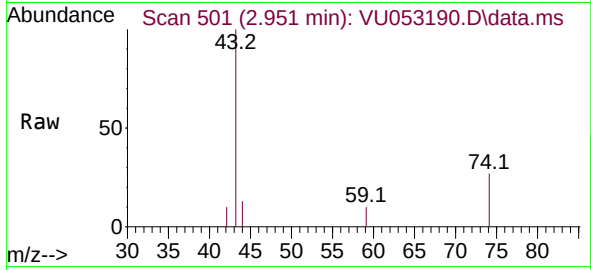




#15
Methyl Acetate
Concen: 4.780 ug/L
RT: 2.951 min Scan# 501
Delta R.T. 0.007 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

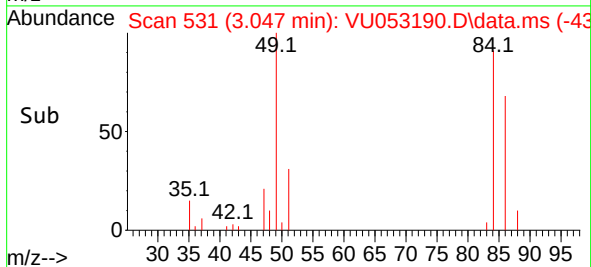
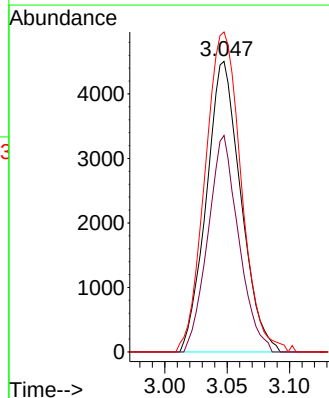
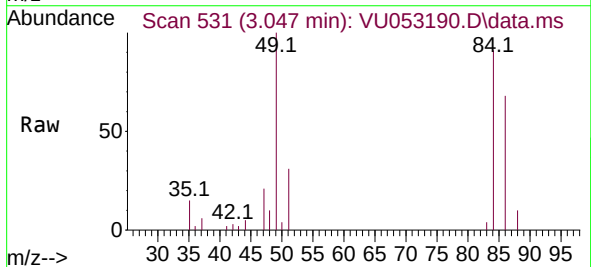
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ClientSampleId :
VSTD005005

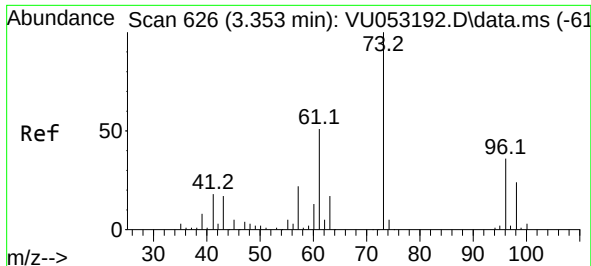
Tgt Ion: 43 Resp: 5635
Ion Ratio Lower Upper
43 100
74 20.4 21.4 32.0#



#16
Methylene chloride
Concen: 5.714 ug/L
RT: 3.047 min Scan# 531
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 84 Resp: 8651
Ion Ratio Lower Upper
84 100
86 74.5 44.4 82.4
49 110.1 81.6 151.6





#17

trans-1,2-Dichloroethene

Concen: 4.569 ug/L

RT: 3.353 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

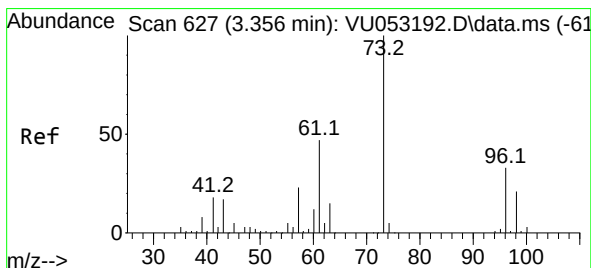
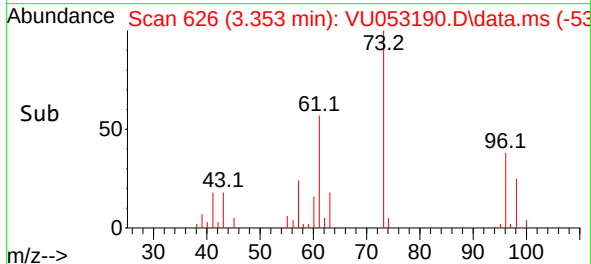
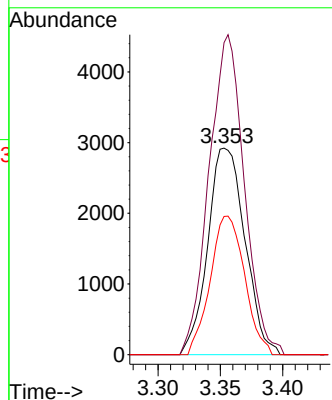
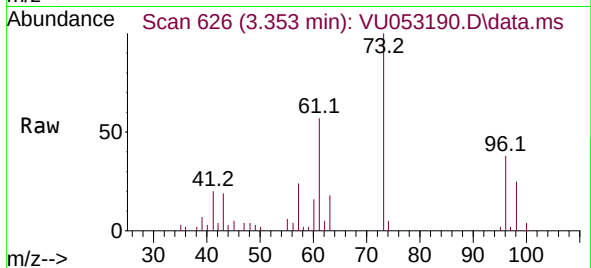
Tgt Ion: 96 Resp: 6083

Ion Ratio Lower Upper

96 100

61 151.0 99.6 185.0

98 66.9 45.5 84.5



#18

Methyl tert-butyl Ether

Concen: 4.587 ug/L

RT: 3.363 min Scan# 629

Delta R.T. 0.007 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

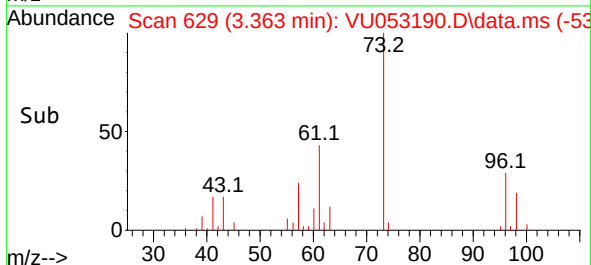
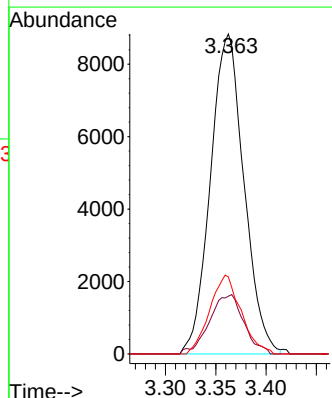
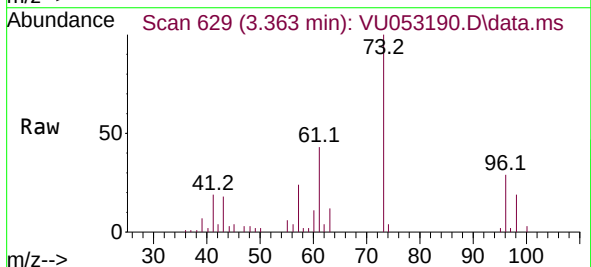
Tgt Ion: 73 Resp: 20485

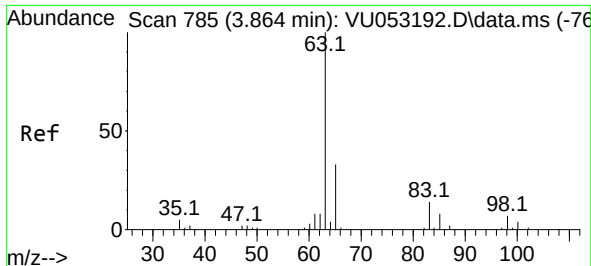
Ion Ratio Lower Upper

73 100

43 18.6 14.2 21.2

57 23.0 18.0 27.0





#19

1,1-Dichloroethane

Concen: 4.908 ug/L

RT: 3.867 min Scan# 785

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

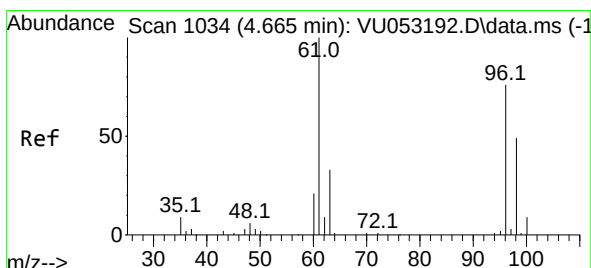
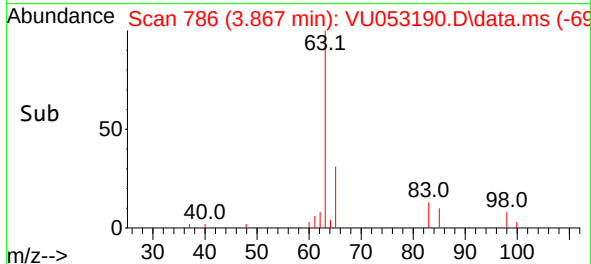
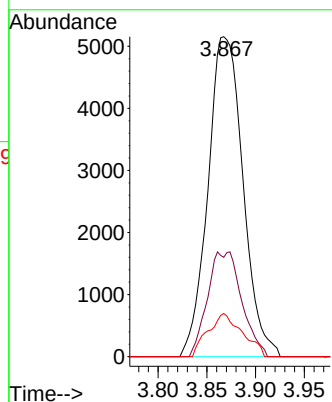
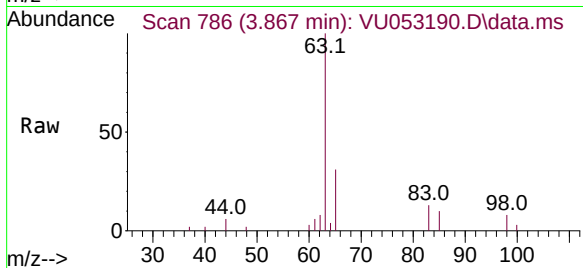
Tgt Ion: 63 Resp: 12890

Ion Ratio Lower Upper

63 100

65 31.0 22.8 42.4

83 13.5 9.4 17.6



#20

cis-1,2-Dichloroethene

Concen: 4.726 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

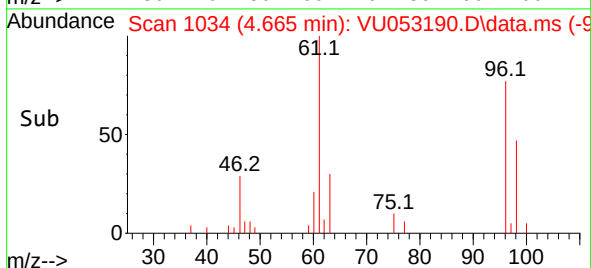
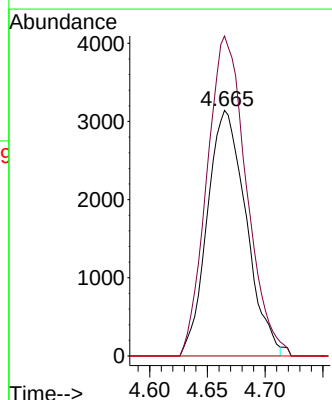
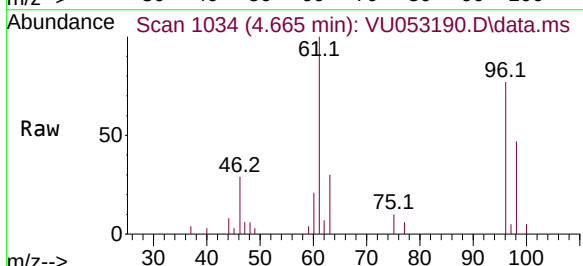
Tgt Ion: 96 Resp: 7346

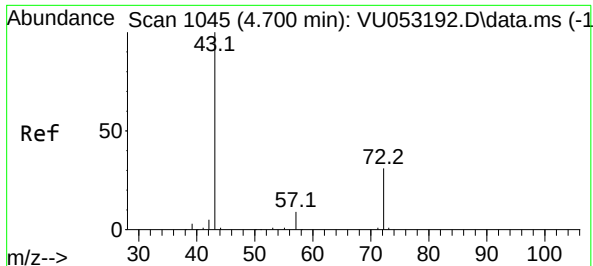
Ion Ratio Lower Upper

96 100

61 130.3 92.5 171.7

68 0.0 0.0 0.0

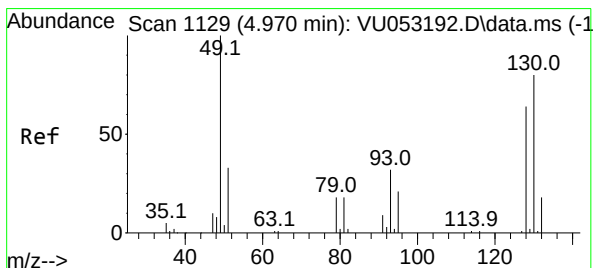
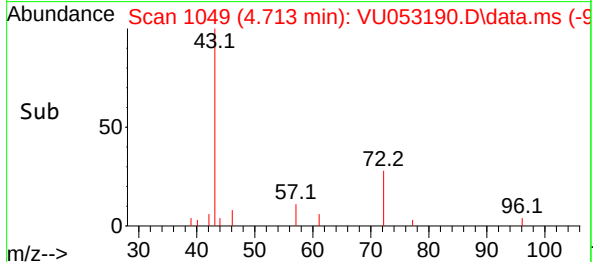
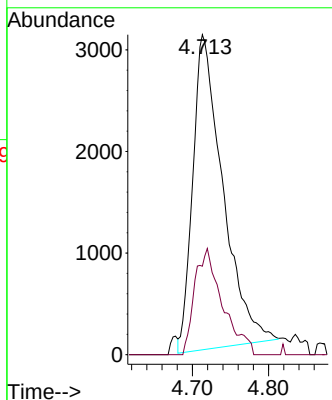
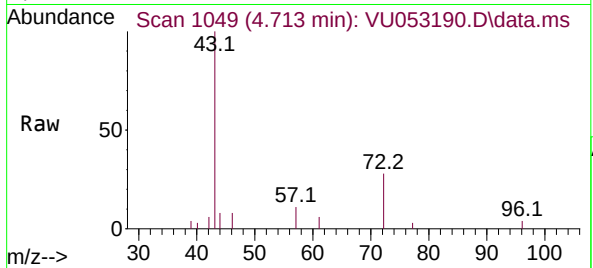




#22
2-Butanone
Concen: 9.868 ug/L
RT: 4.713 min Scan# 1045
Delta R.T. 0.013 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

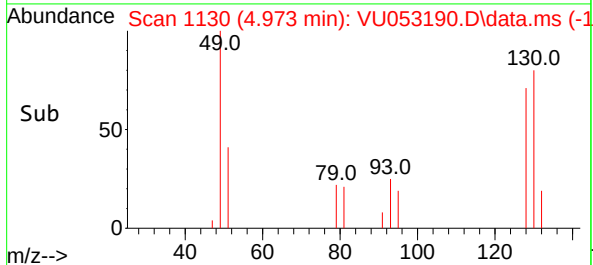
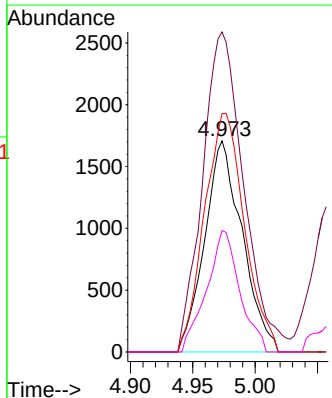
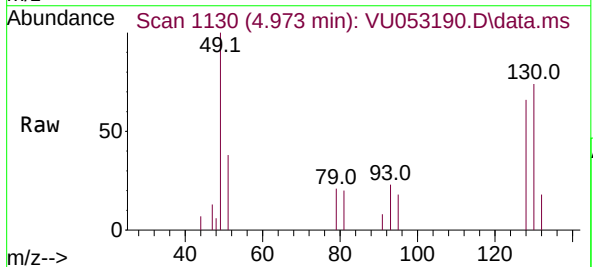
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

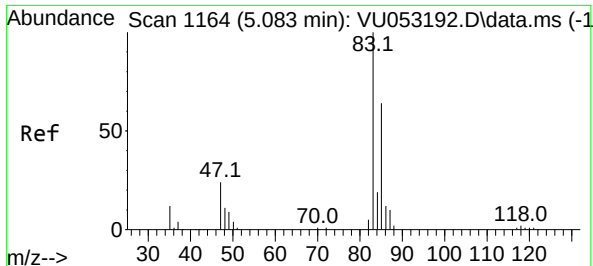
Tgt Ion: 43 Resp: 8504
Ion Ratio Lower Upper
43 100
72 10.2 16.0 47.9#



#23
Bromochloromethane
Concen: 4.890 ug/L
RT: 4.973 min Scan# 1130
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion:128 Resp: 3579
Ion Ratio Lower Upper
128 100
49 151.7 109.9 204.1
130 112.9 87.2 161.9
51 57.6 41.1 61.7





#25

Chloroform

Concen: 4.744 ug/L

RT: 5.086 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

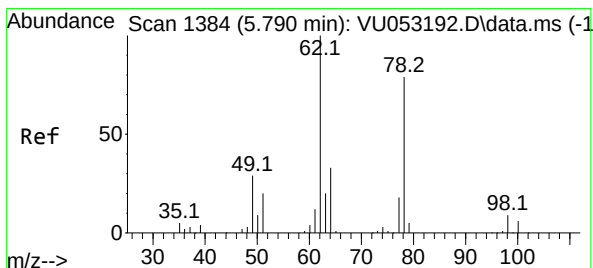
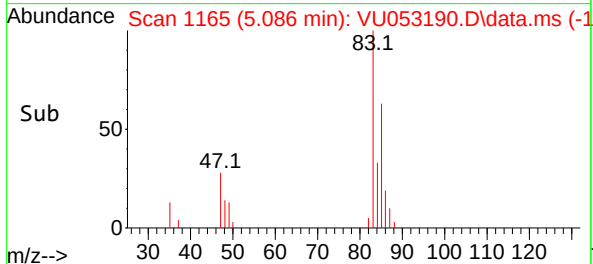
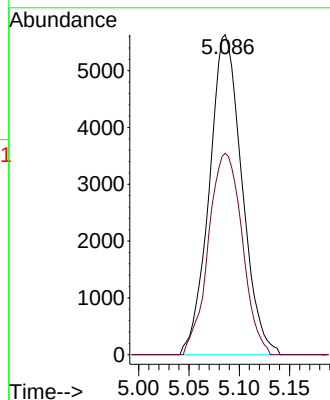
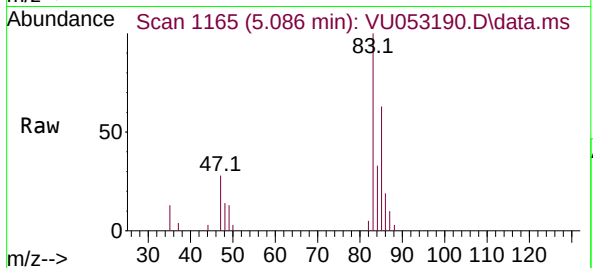
VSTD005005

Tgt Ion: 83 Resp: 12709

Ion Ratio Lower Upper

83 100

85 62.9 44.9 83.3



#27

1,2-Dichloroethane

Concen: 4.994 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VU053190.D

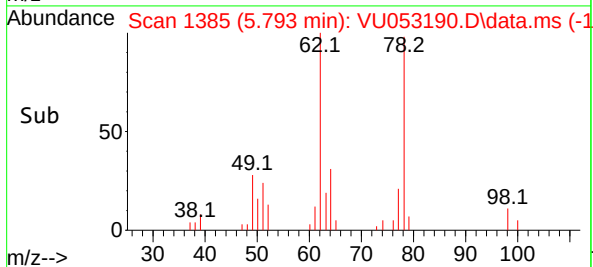
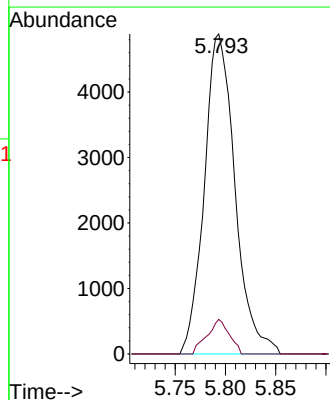
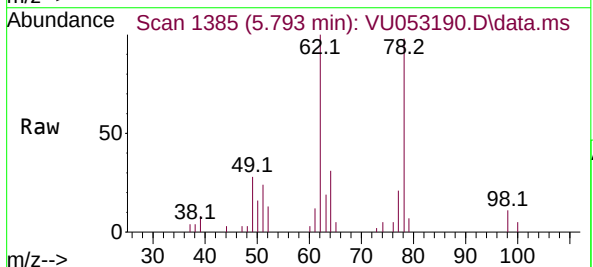
Acq: 15 Mar 2023 09:49

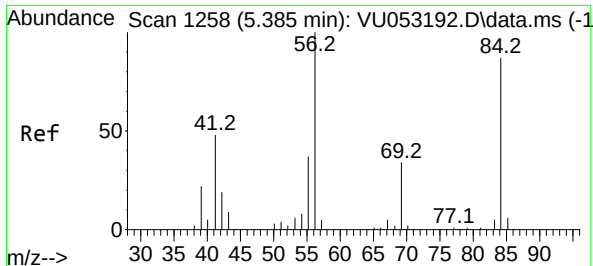
Tgt Ion: 62 Resp: 10371

Ion Ratio Lower Upper

62 100

98 10.8 7.0 10.6#





#29

Cyclohexane

Concen: 5.015 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

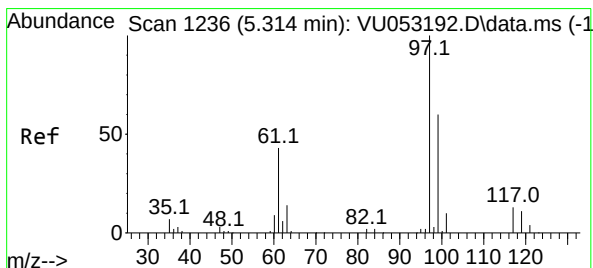
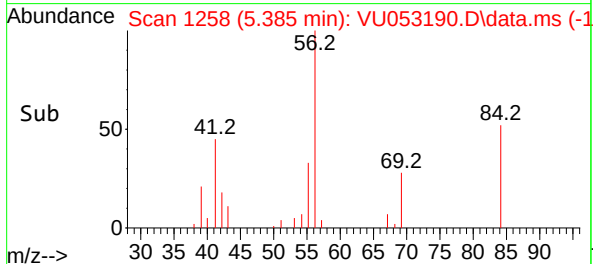
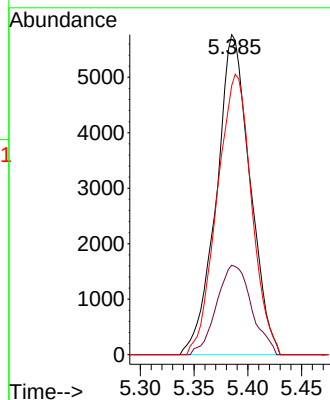
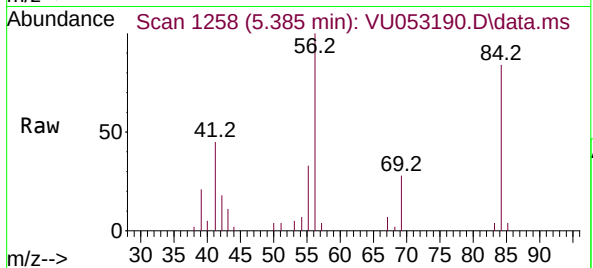
Tgt Ion: 56 Resp: 12542

Ion Ratio Lower Upper

56 100

69 29.1 25.4 38.0

84 89.7 69.0 103.6



#30

1,1,1-Trichloroethane

Concen: 4.784 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

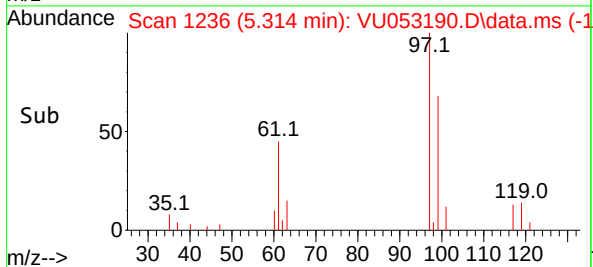
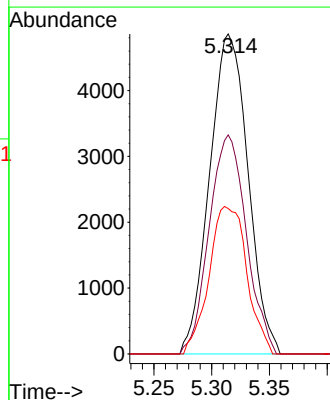
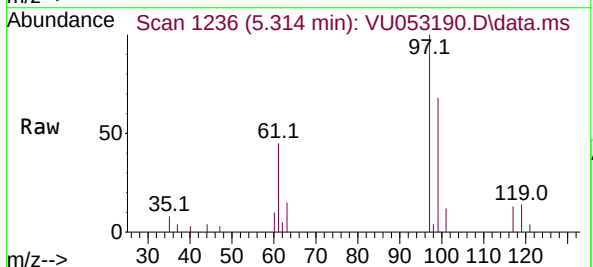
Tgt Ion: 97 Resp: 11242

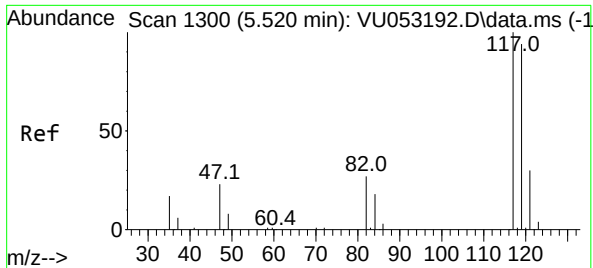
Ion Ratio Lower Upper

97 100

99 66.3 50.6 76.0

61 45.3 36.0 54.0

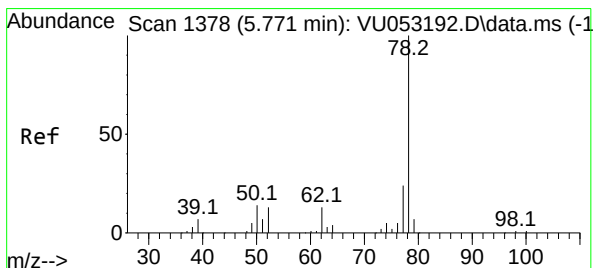
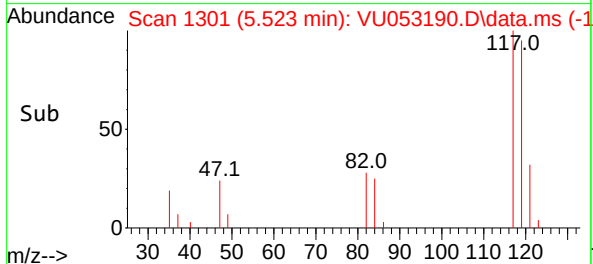
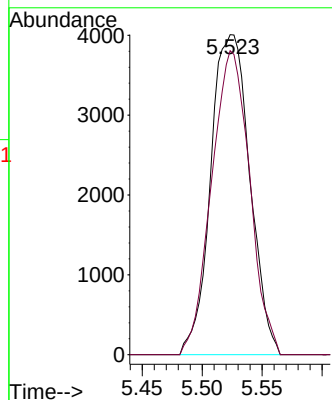
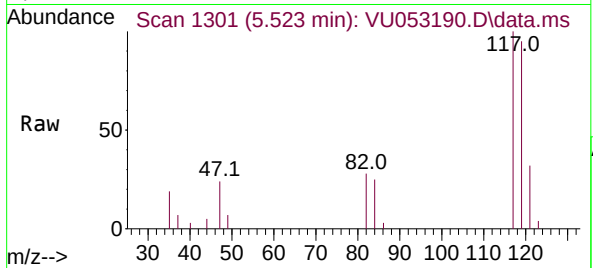




#31
Carbon tetrachloride
Concen: 4.573 ug/L
RT: 5.523 min Scan# 111
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

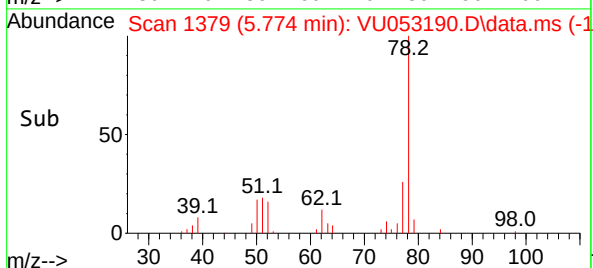
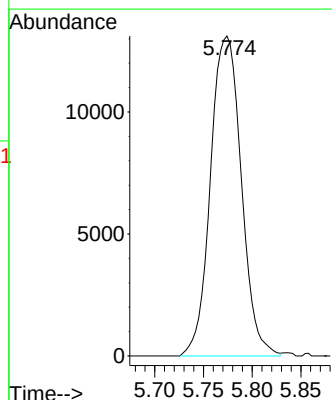
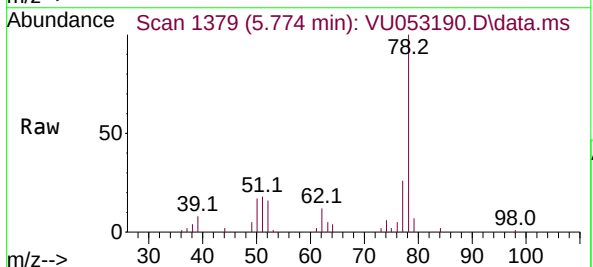
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

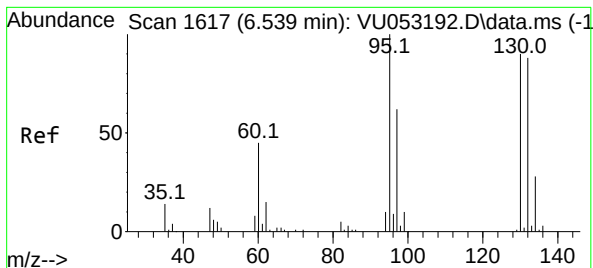
Tgt Ion:117 Resp: 9089
Ion Ratio Lower Upper
117 100
119 92.7 76.2 114.2



#33
Benzene
Concen: 4.860 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 78 Resp: 28872





#34

Trichloroethene

Concen: 4.771 ug/L

RT: 6.539 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

Tgt Ion: 95 Resp: 7378

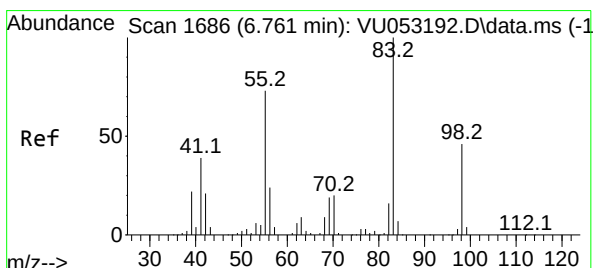
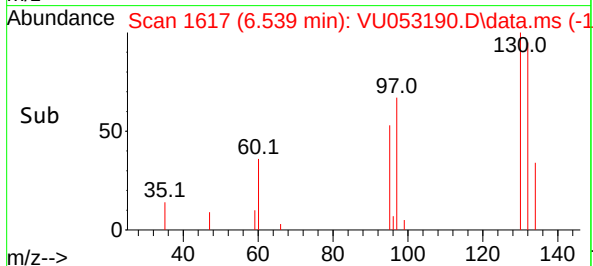
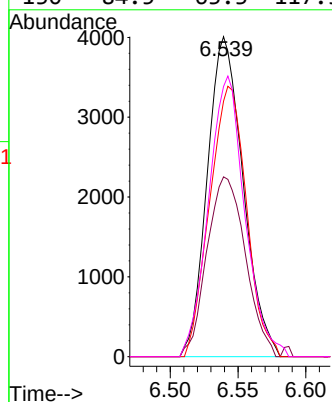
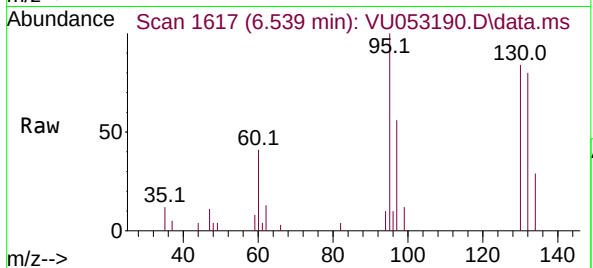
Ion Ratio Lower Upper

95 100

97 56.2 43.8 81.3

132 79.9 61.5 114.3

130 84.5 63.3 117.5



#35

Methylcyclohexane

Concen: 4.930 ug/L

RT: 6.761 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

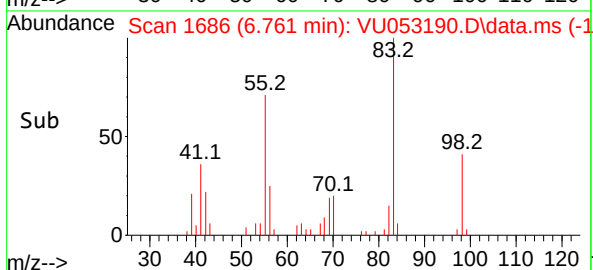
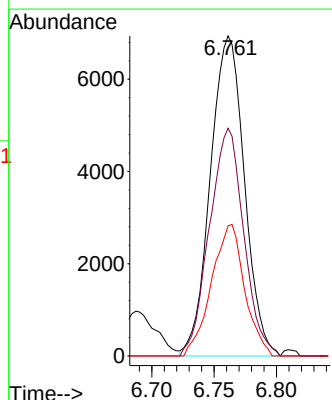
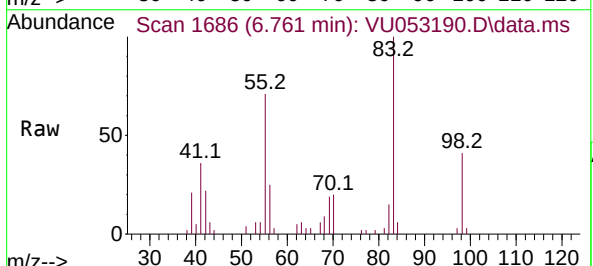
Tgt Ion: 83 Resp: 13193

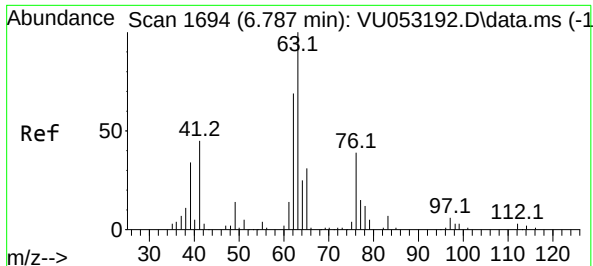
Ion Ratio Lower Upper

83 100

55 71.7 58.2 87.4

98 40.0 35.4 53.2





#37

1,2-Dichloropropane

Concen: 4.960 ug/L

RT: 6.787 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

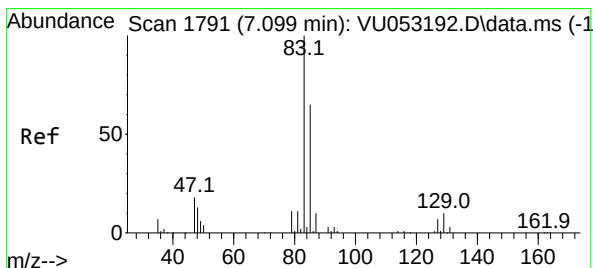
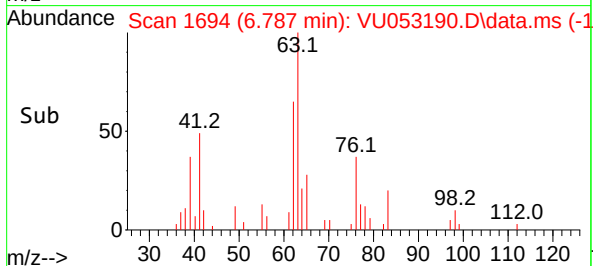
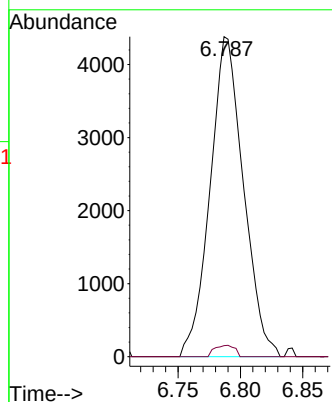
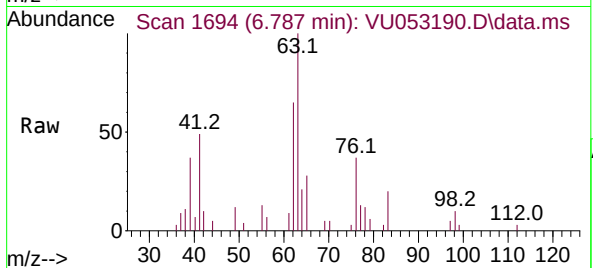
VSTD005005

Tgt Ion: 63 Resp: 8157

Ion Ratio Lower Upper

63 100

112 2.2 2.6 3.8#



#38

Bromodichloromethane

Concen: 4.538 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

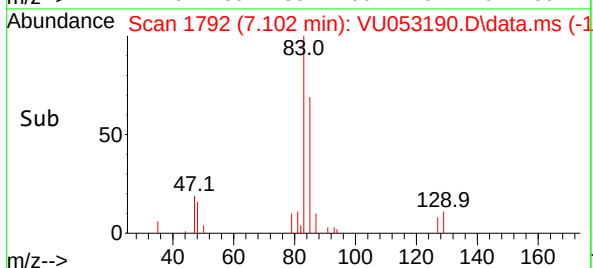
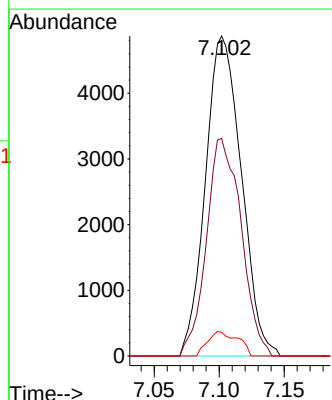
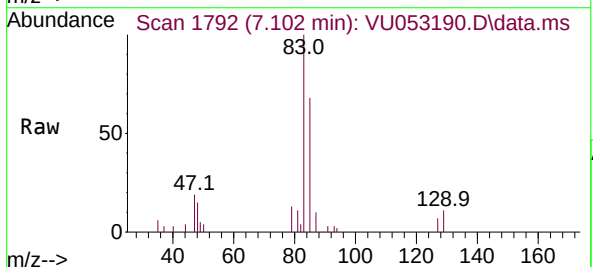
Tgt Ion: 83 Resp: 9362

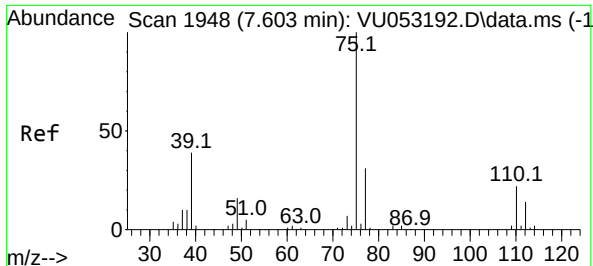
Ion Ratio Lower Upper

83 100

85 68.0 45.4 84.2

127 7.4 5.9 8.9





#39

cis-1,3-Dichloropropene

Concen: 4.612 ug/L

RT: 7.607 min Scan# 1948

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

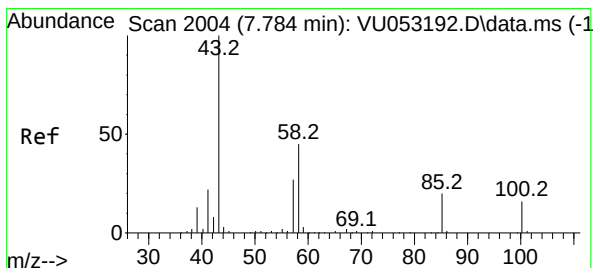
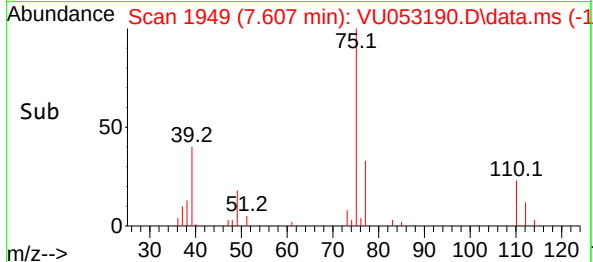
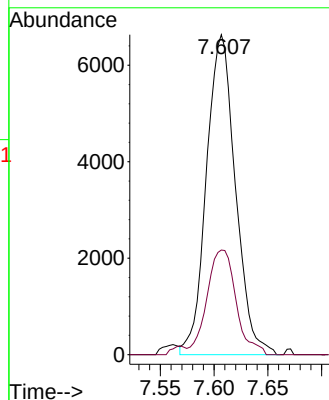
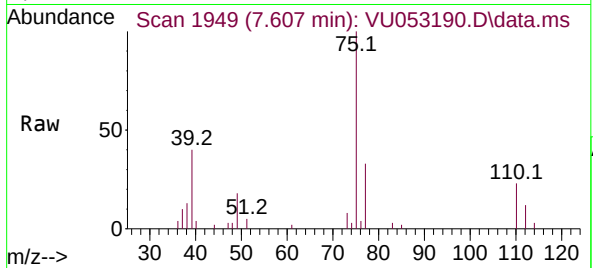
VSTD005005

Tgt Ion: 75 Resp: 12458

Ion Ratio Lower Upper

75 100

77 32.7 21.9 40.7



#40

4-Methyl-2-pentanone

Concen: 9.012 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.007 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

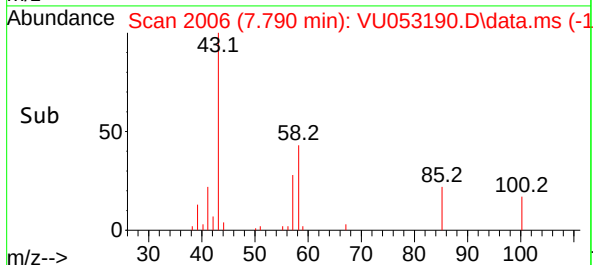
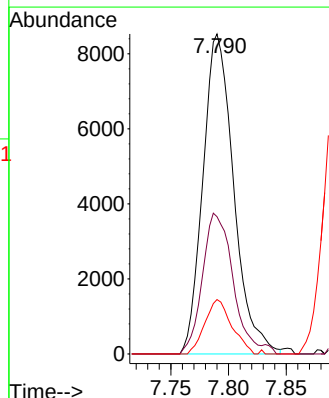
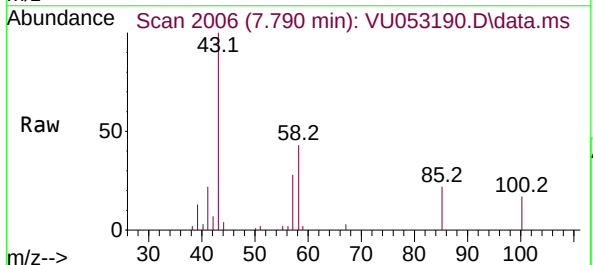
Tgt Ion: 43 Resp: 15803

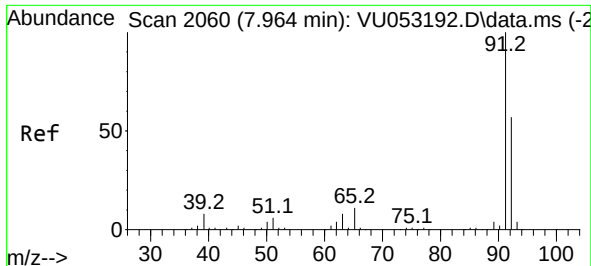
Ion Ratio Lower Upper

43 100

58 43.3 35.8 53.6

100 14.8 13.0 19.6





#42

Toluene

Concen: 4.791 ug/L

RT: 7.967 min Scan# 2060

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

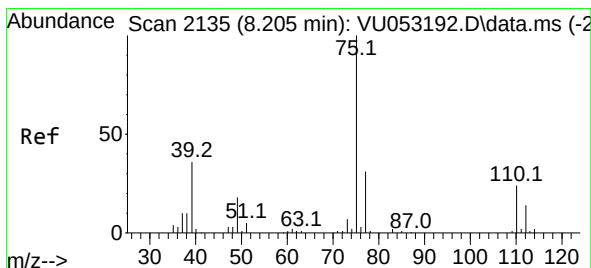
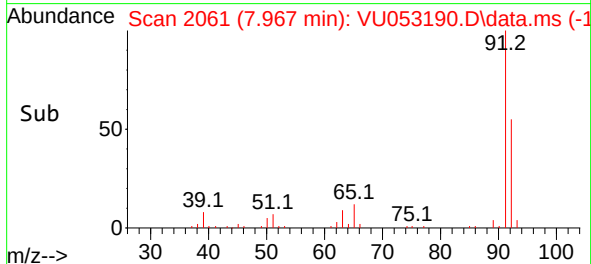
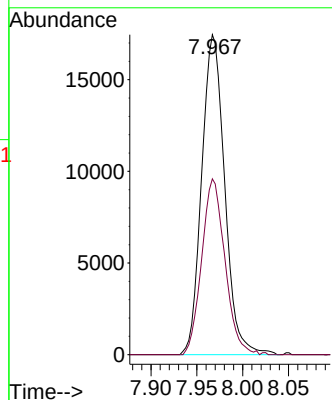
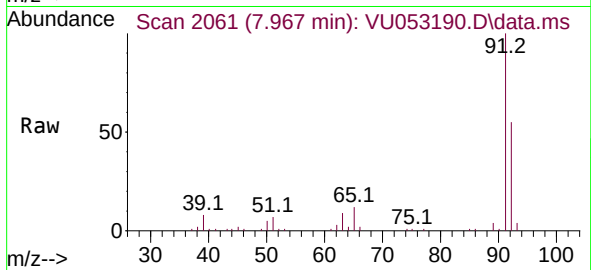
VSTD005005

Tgt Ion: 91 Resp: 30439

Ion Ratio Lower Upper

91 100

92 54.9 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 4.467 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.003 min

Lab File: VU053190.D

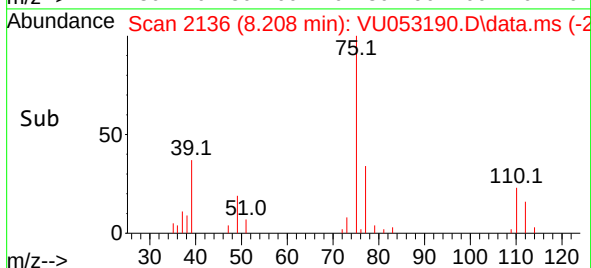
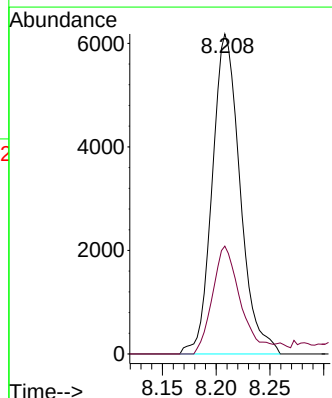
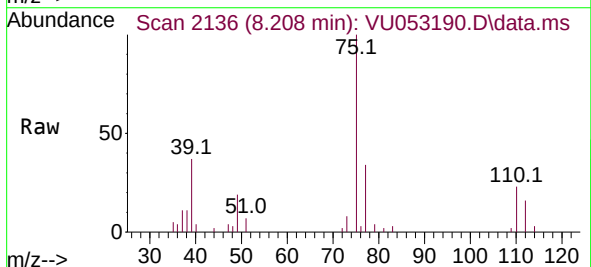
Acq: 15 Mar 2023 09:49

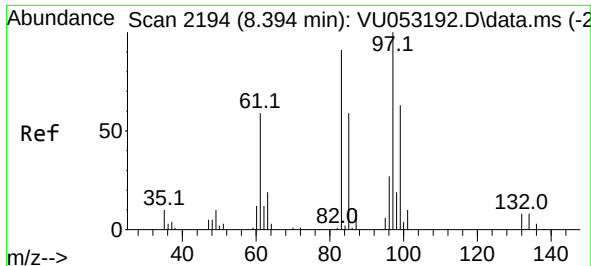
Tgt Ion: 75 Resp: 11129

Ion Ratio Lower Upper

75 100

77 33.7 22.0 40.8

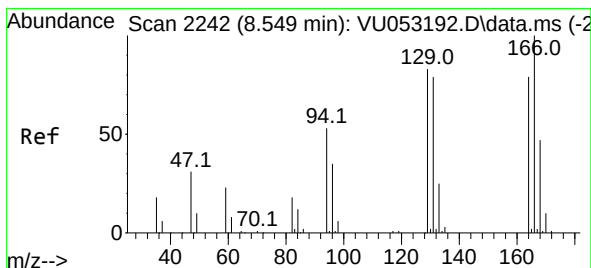
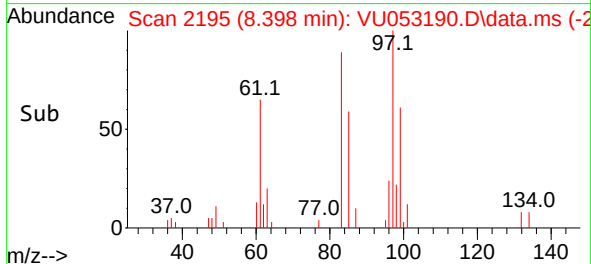
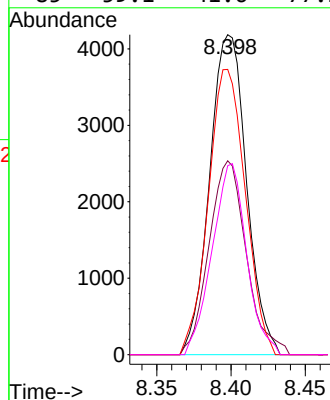
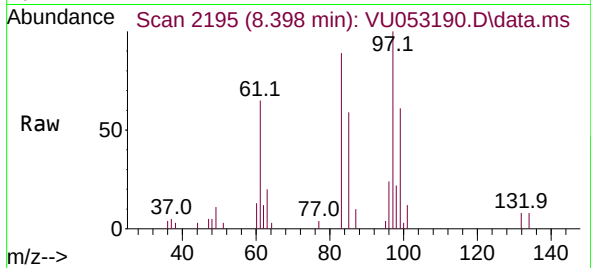




#45
1,1,2-Trichloroethane
Concen: 4.872 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

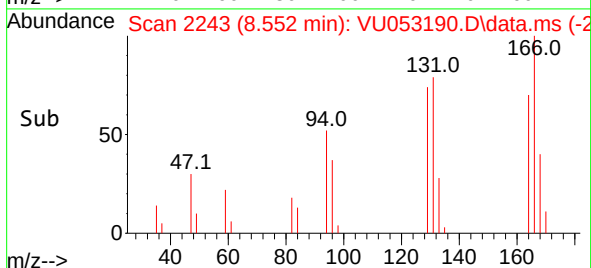
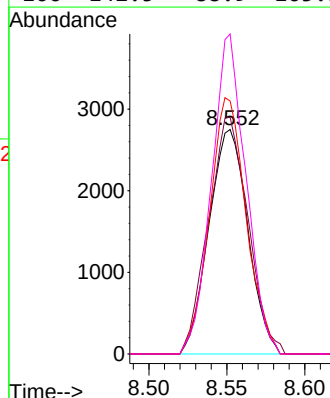
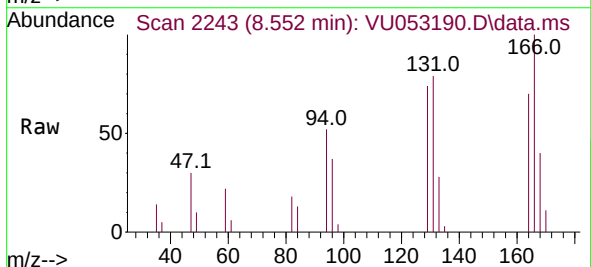
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

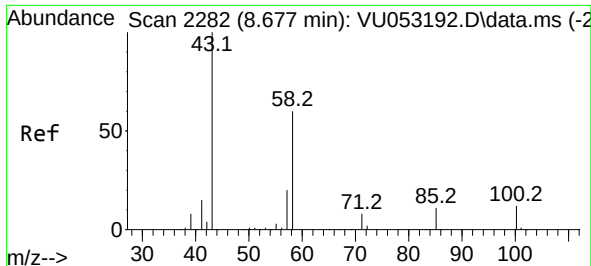
Tgt Ion: 97	Resp: 7245
Ion Ratio	Lower Upper
97 100	
99 60.6	44.4 82.4
83 89.1	63.8 118.6
85 59.1	41.6 77.2



#46
Tetrachloroethene
Concen: 4.675 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion:164	Resp: 4762
Ion Ratio	Lower Upper
164 100	
129 105.5	73.6 136.8
131 112.6	70.3 130.7
166 142.5	88.9 165.1





#48

2-Hexanone

Concen: 9.763 ug/L

RT: 8.684 min Scan# 21

Delta R.T. 0.007 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

Tgt Ion: 43 Resp: 13717

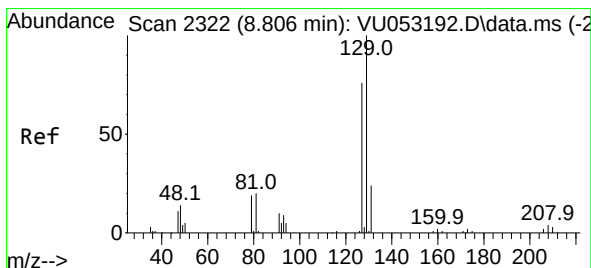
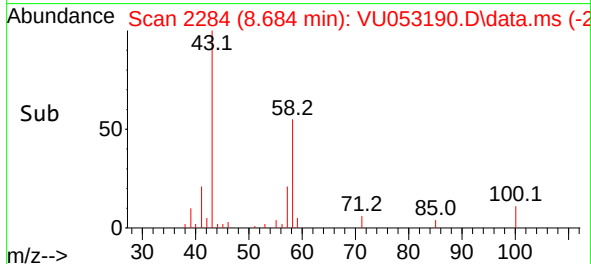
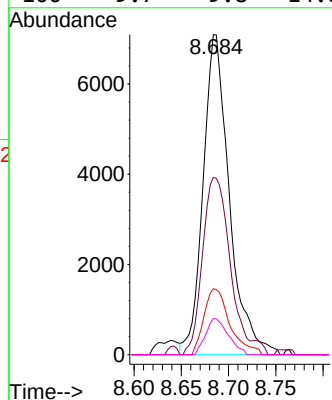
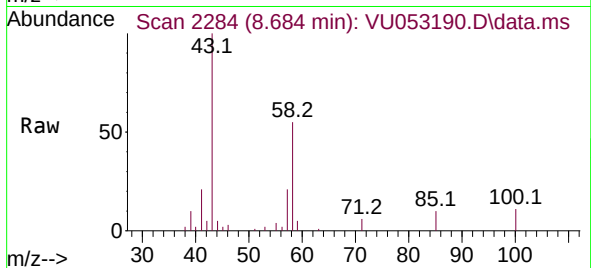
Ion Ratio Lower Upper

43 100

58 57.0 49.4 74.0

57 20.3 16.9 25.3

100 9.7 9.8 14.8#



#49

Dibromochloromethane

Concen: 4.575 ug/L

RT: 8.806 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VU053190.D

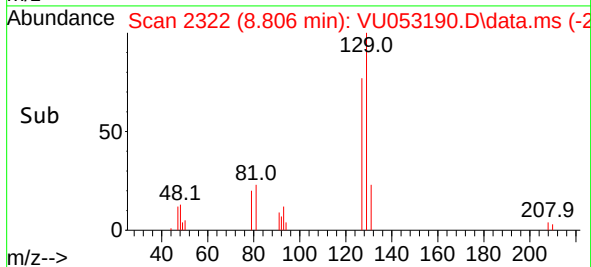
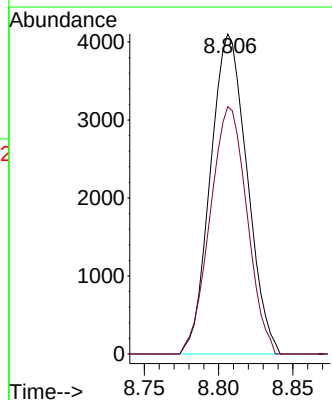
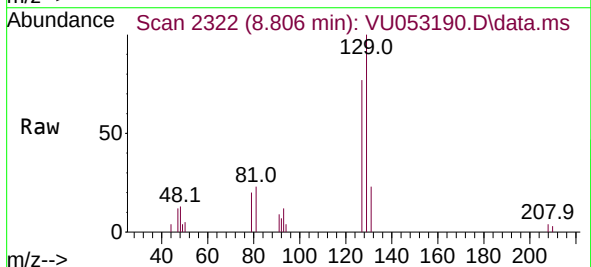
Acq: 15 Mar 2023 09:49

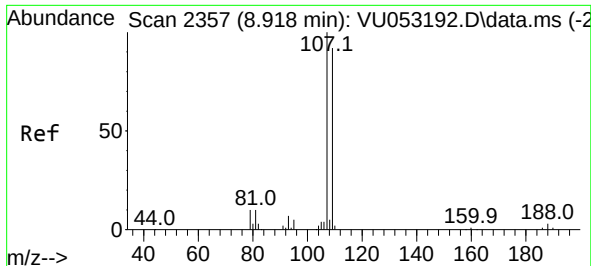
Tgt Ion: 129 Resp: 7045

Ion Ratio Lower Upper

129 100

127 77.3 53.1 98.5





#50

1,2-Dibromoethane

Concen: 4.771 ug/L

RT: 8.922 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

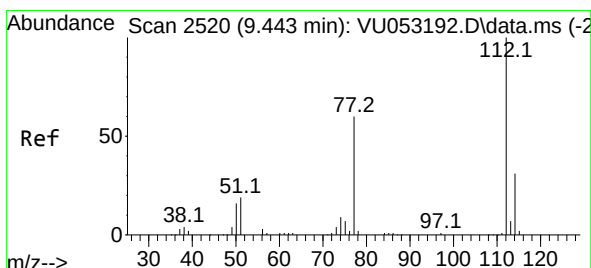
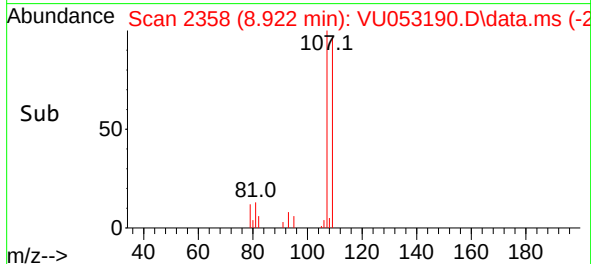
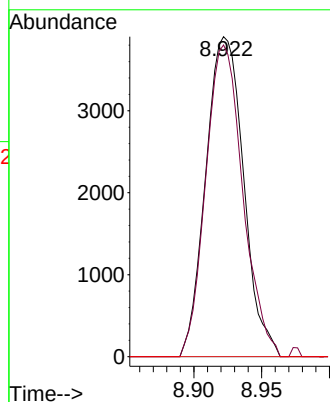
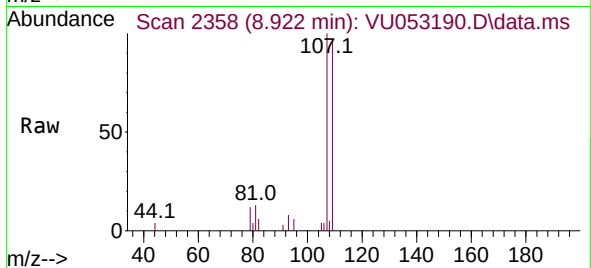
Tgt Ion:107 Resp: 7573

Ion Ratio Lower Upper

107 100

109 97.4 64.6 120.0

188 0.0 2.2 3.4#



#51

Chlorobenzene

Concen: 4.749 ug/L

RT: 9.446 min Scan# 2521

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

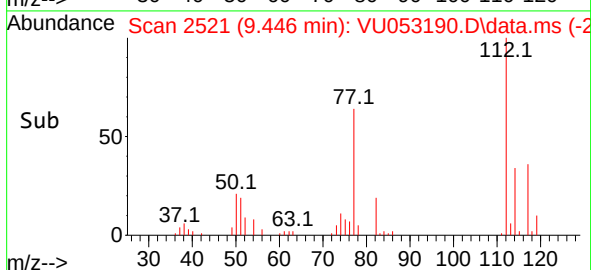
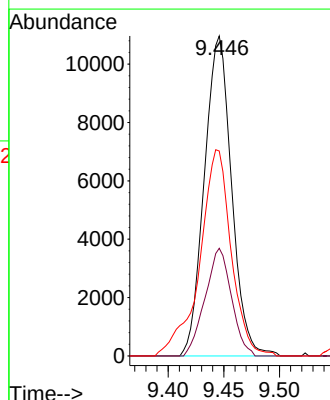
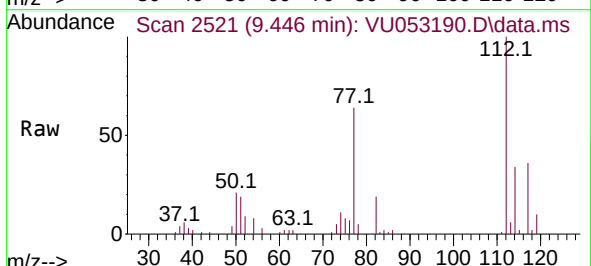
Tgt Ion:112 Resp: 18672

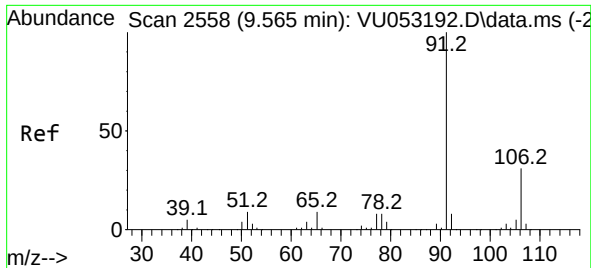
Ion Ratio Lower Upper

112 100

114 33.7 21.8 40.6

77 64.0 48.8 73.2

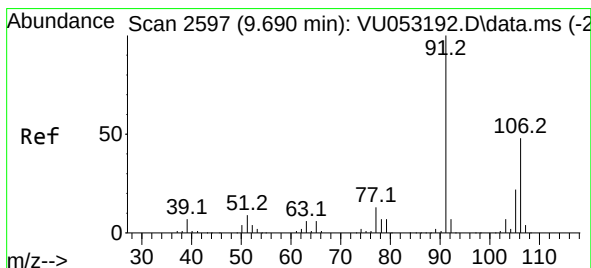
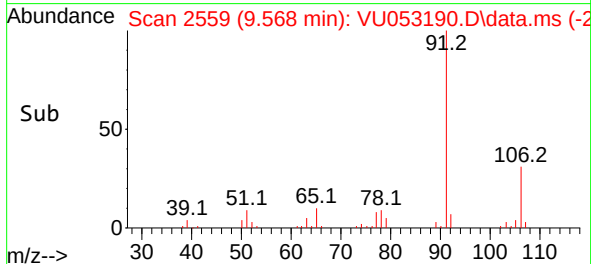
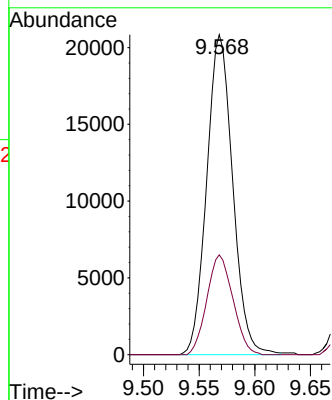
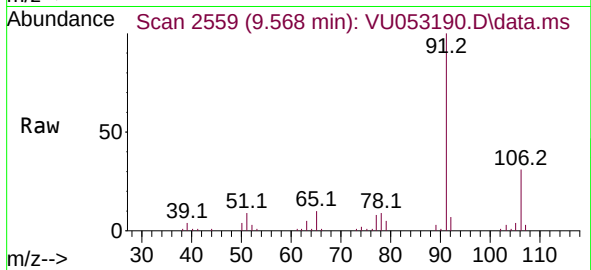




#52
Ethylbenzene
Concen: 4.772 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

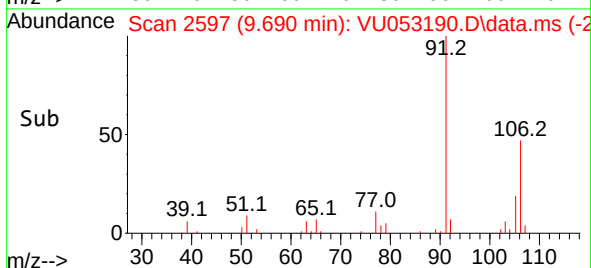
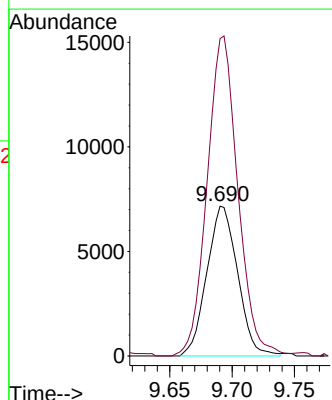
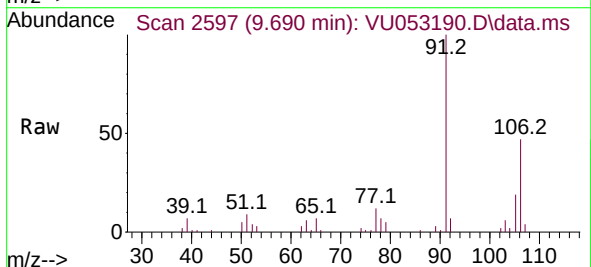
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

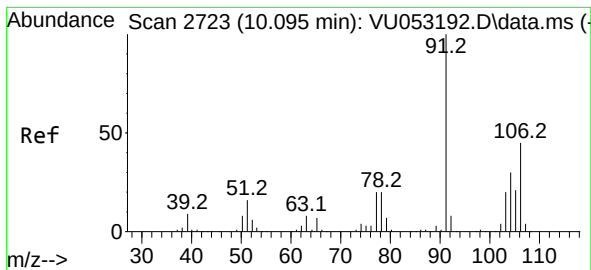
Tgt Ion: 91 Resp: 33795
Ion Ratio Lower Upper
91 100
106 31.2 21.6 40.0



#53
m,p-Xylene
Concen: 4.642 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 106 Resp: 12329
Ion Ratio Lower Upper
106 100
91 211.8 145.3 269.8





#54

o-Xylene

Concen: 4.632 ug/L

RT: 10.095 min Scan# 2723

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

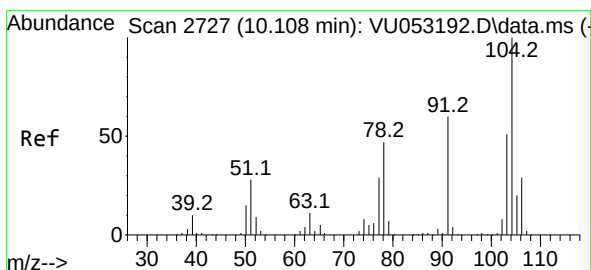
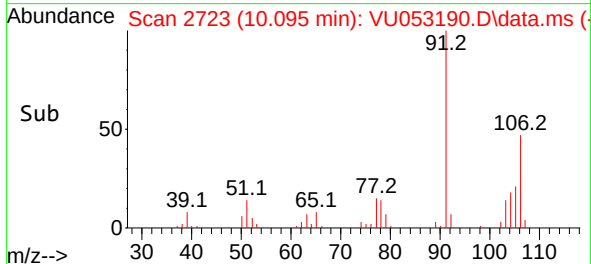
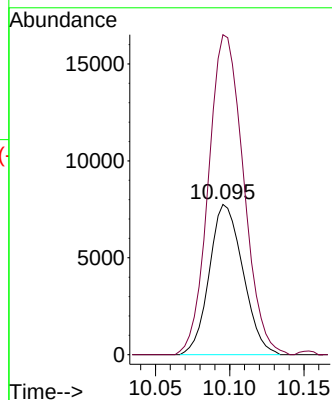
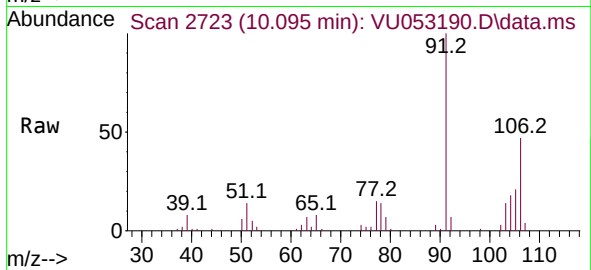
VSTD005005

Tgt Ion:106 Resp: 12226

Ion Ratio Lower Upper

106 100

91 212.9 154.9 287.7



#55

Styrene

Concen: 4.430 ug/L

RT: 10.111 min Scan# 2728

Delta R.T. 0.003 min

Lab File: VU053190.D

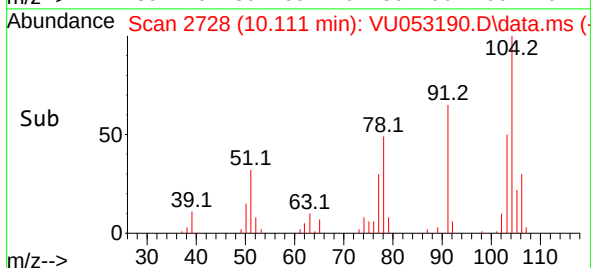
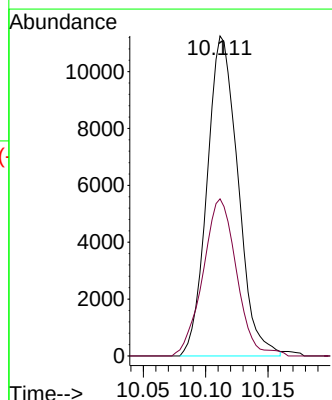
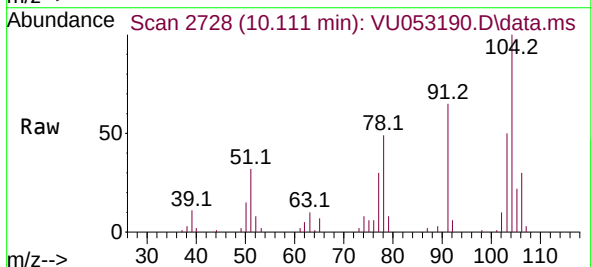
Acq: 15 Mar 2023 09:49

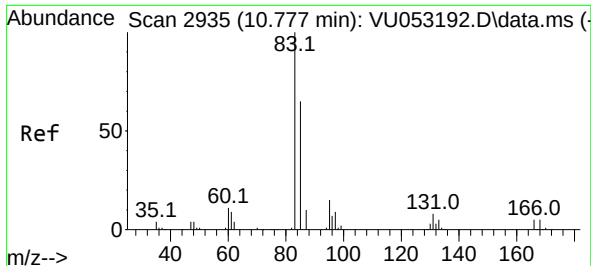
Tgt Ion:104 Resp: 19432

Ion Ratio Lower Upper

104 100

78 49.1 32.9 61.1





#57

1,1,2-Tetrachloroethane

Concen: 4.619 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

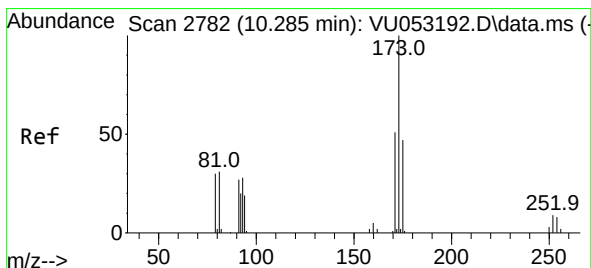
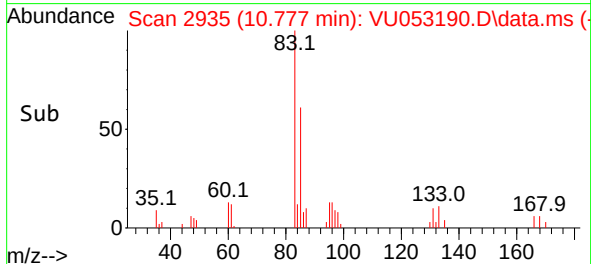
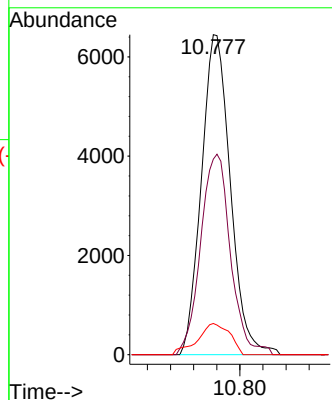
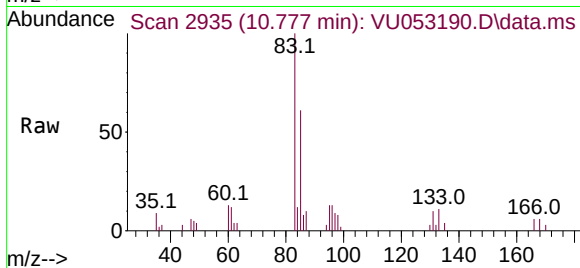
Tgt Ion: 83 Resp: 11226

Ion Ratio Lower Upper

83 100

85 61.1 46.0 85.4

131 9.8 6.6 10.0



#59

Bromoform

Concen: 4.296 ug/L

RT: 10.288 min Scan# 2783

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

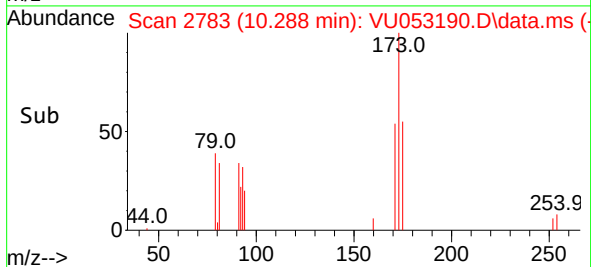
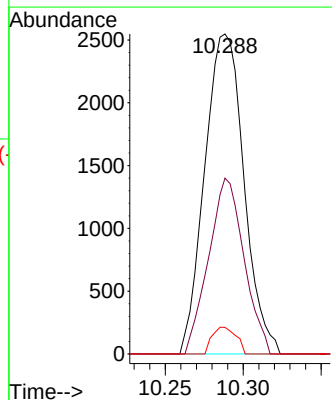
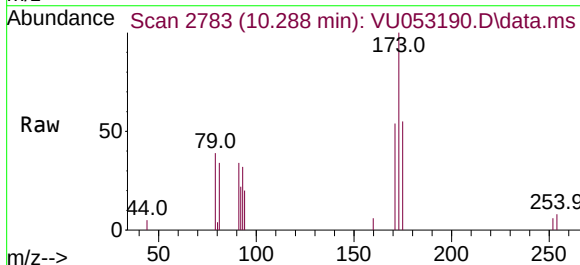
Tgt Ion: 173 Resp: 4461

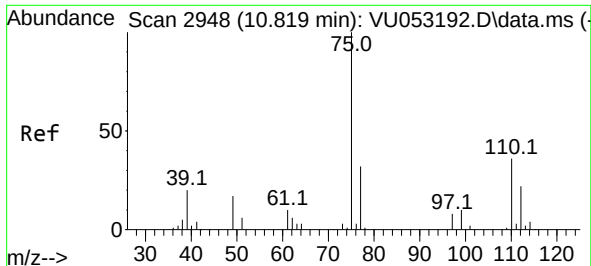
Ion Ratio Lower Upper

173 100

175 49.5 38.5 57.7

254 5.1 6.5 9.7#

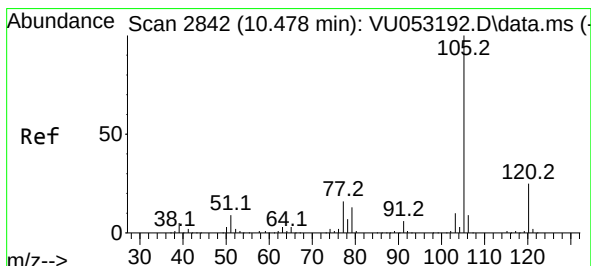
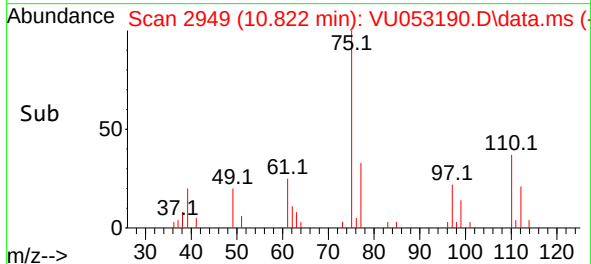
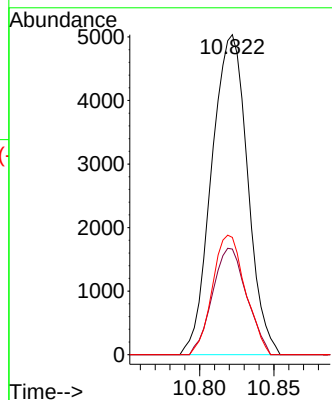
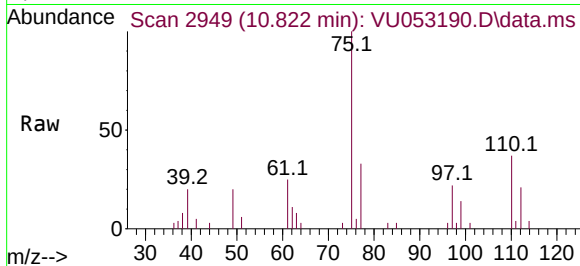




#60
1,2,3-Trichloropropane
Concen: 4.780 ug/L
RT: 10.822 min Scan# 2948
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

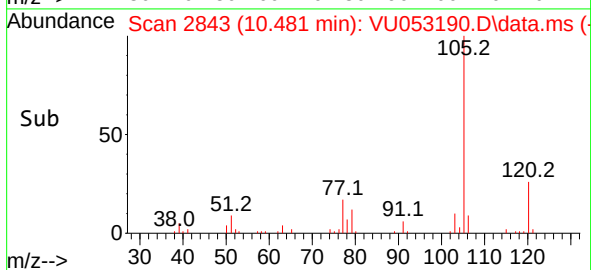
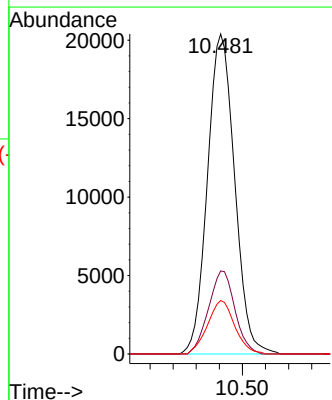
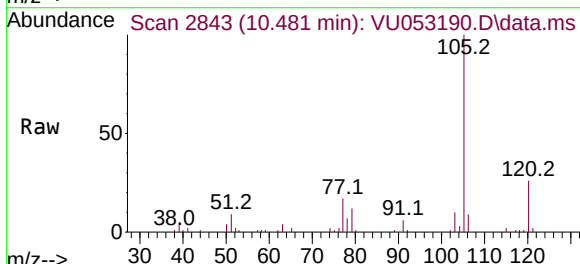
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

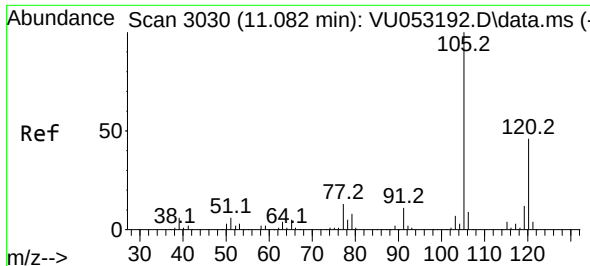
Tgt Ion: 75	Resp: 8477
Ion Ratio	Lower Upper
75 100	
77 31.7	26.6 40.0
110 34.2	28.6 42.8



#61
Isopropylbenzene
Concen: 4.898 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion: 105	Resp: 33288
Ion Ratio	Lower Upper
105 100	
120 25.2	20.4 30.6
77 16.7	13.0 19.4





#62

1,3,5-Trimethylbenzene

Concen: 4.610 ug/L

RT: 11.086 min Scan# 3030

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

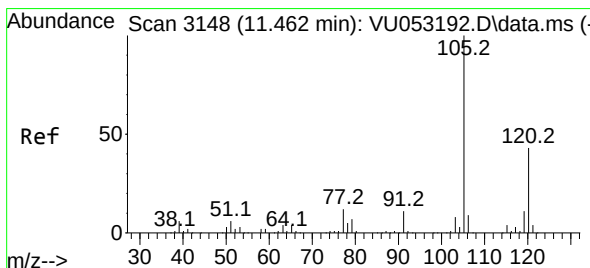
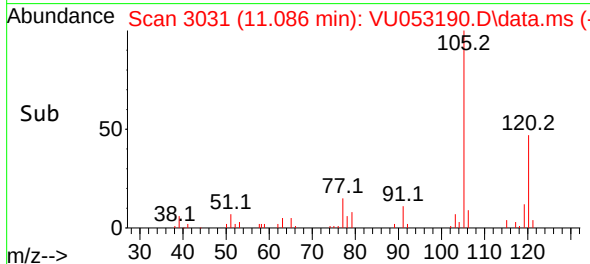
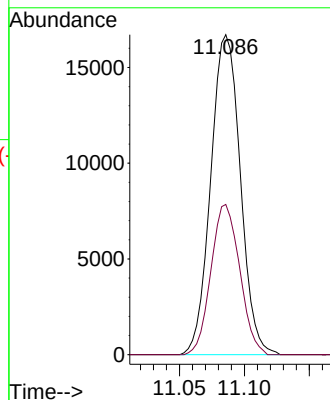
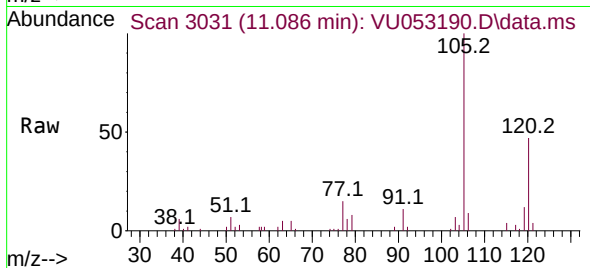
VSTD005005

Tgt Ion:105 Resp: 26474

Ion Ratio Lower Upper

105 100

120 45.6 37.0 55.4



#63

1,2,4-Trimethylbenzene

Concen: 4.604 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU053190.D

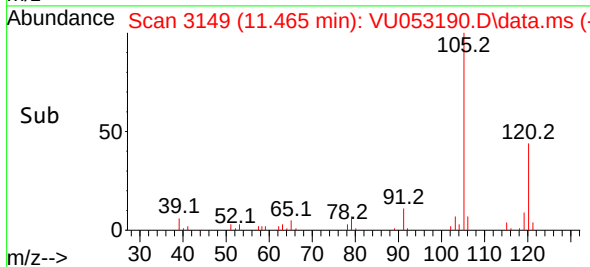
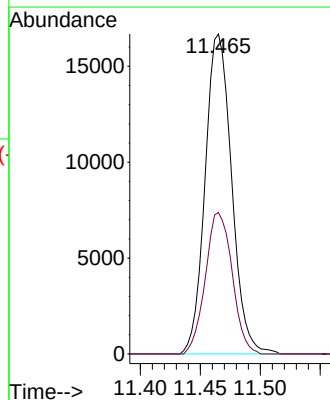
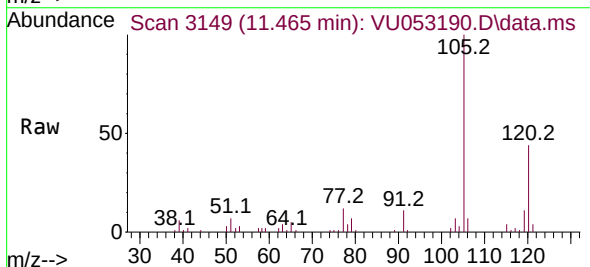
Acq: 15 Mar 2023 09:49

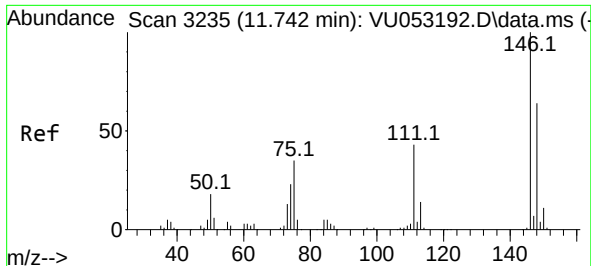
Tgt Ion:105 Resp: 25683

Ion Ratio Lower Upper

105 100

120 44.6 34.6 52.0

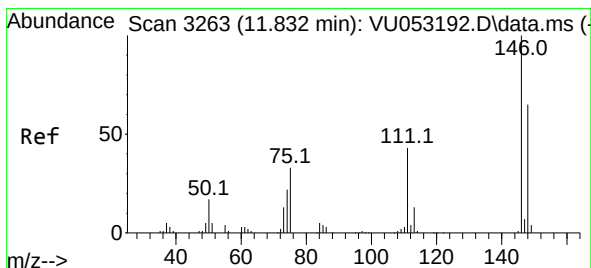
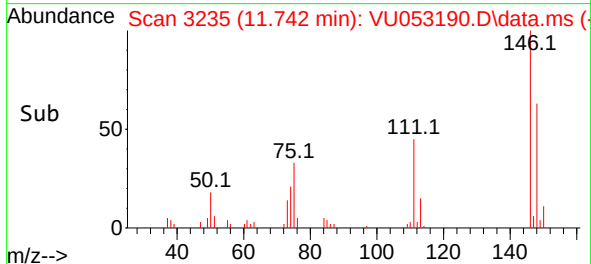
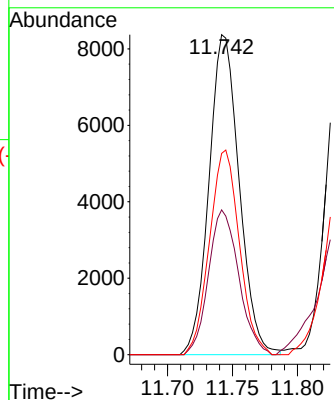
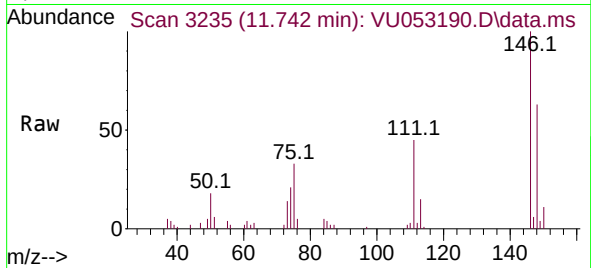




#64
1,3-Dichlorobenzene
Concen: 4.822 ug/L
RT: 11.742 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

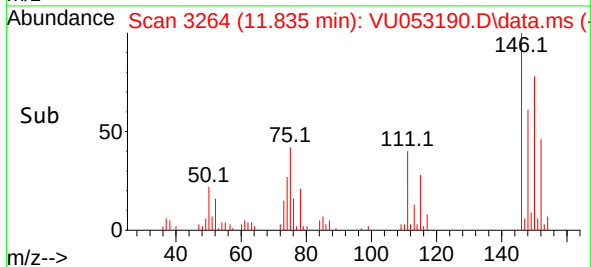
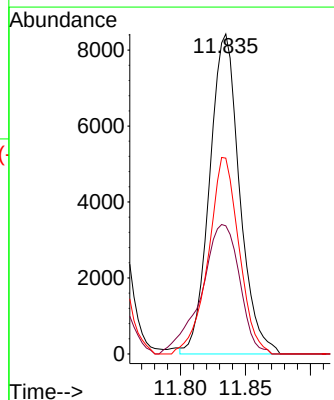
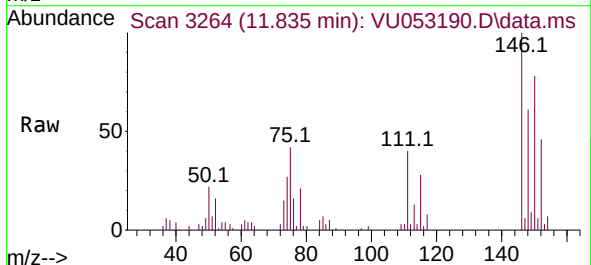
Instrument :
MSVOA_U
ClientSampleId :
VSTD005005

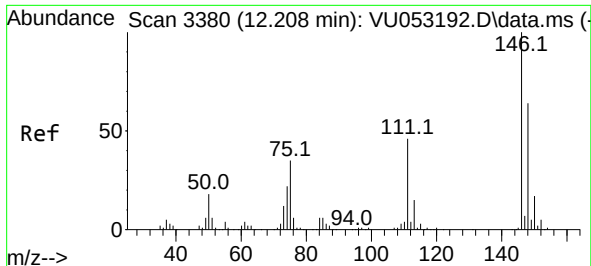
Tgt Ion:146 Resp: 13534
Ion Ratio Lower Upper
146 100
111 45.3 30.2 56.0
148 62.9 44.8 83.2



#65
1,4-Dichlorobenzene
Concen: 4.753 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.003 min
Lab File: VU053190.D
Acq: 15 Mar 2023 09:49

Tgt Ion:146 Resp: 13515
Ion Ratio Lower Upper
146 100
111 40.0 30.7 57.1
148 61.2 45.6 84.8





#67

1,2-Dichlorobenzene

Concen: 4.889 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.003 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

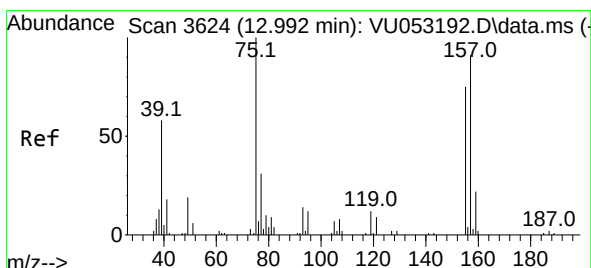
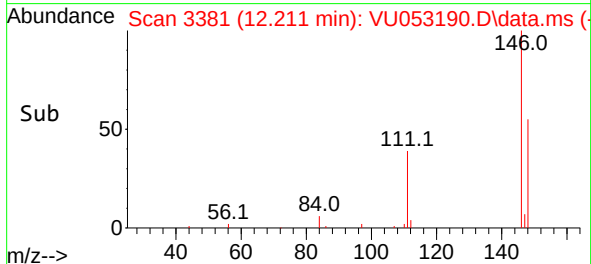
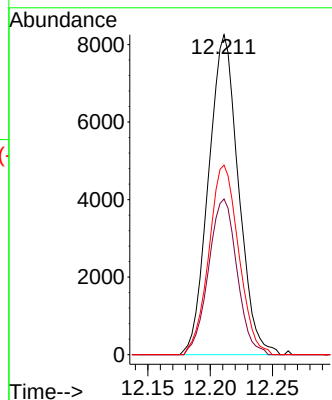
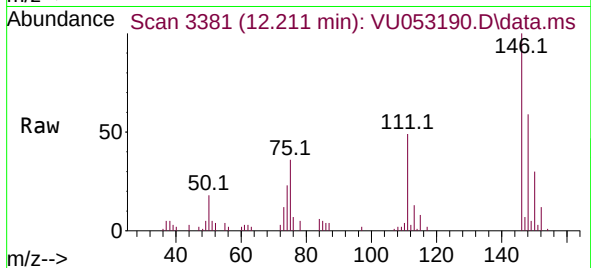
Tgt Ion:146 Resp: 13796

Ion Ratio Lower Upper

146 100

111 48.6 37.0 55.4

148 59.2 51.4 77.2



#68

1,2-Dibromo-3-chloropropane

Concen: 3.942 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

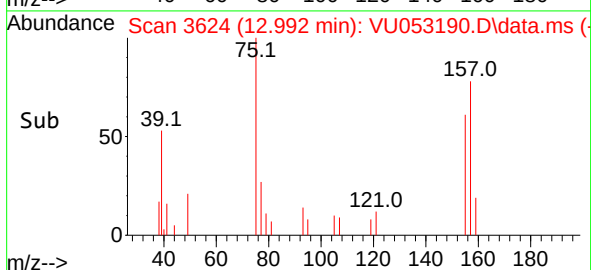
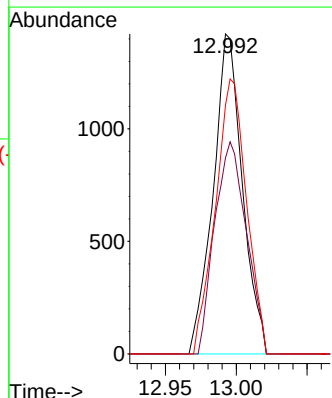
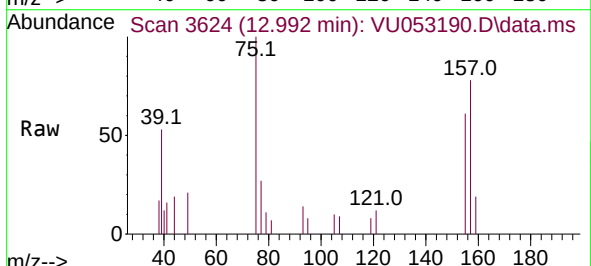
Tgt Ion: 75 Resp: 2039

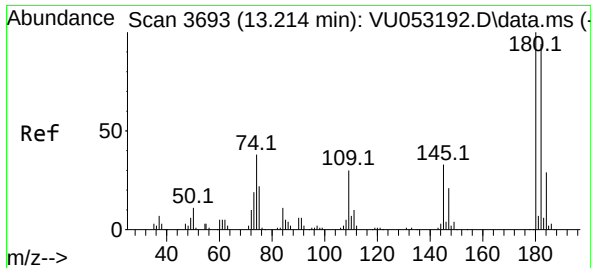
Ion Ratio Lower Upper

75 100

155 61.3 60.2 90.4

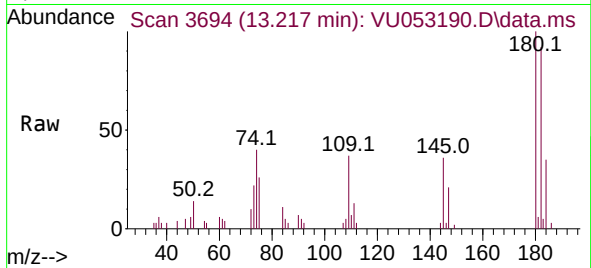
157 77.7 73.0 109.4



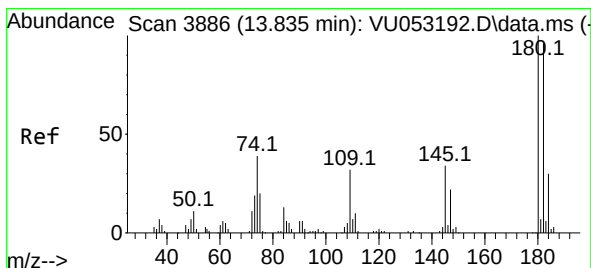
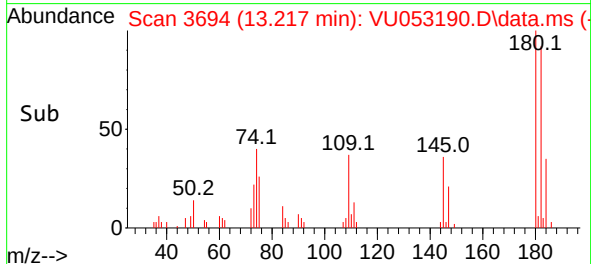
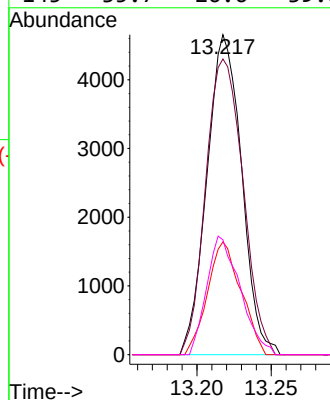


#69
 1,3,5-Trichlorobenzene
 Concen: 3.988 ug/L
 RT: 13.217 min Scan# 3694
 Delta R.T. 0.003 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005005

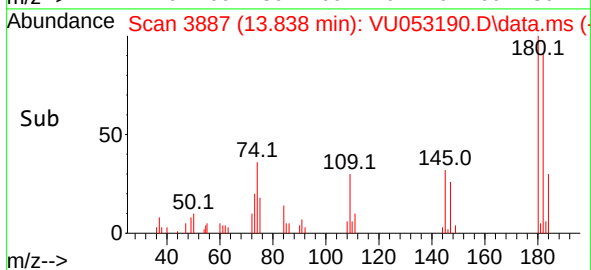
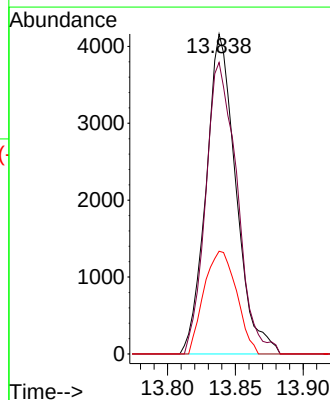
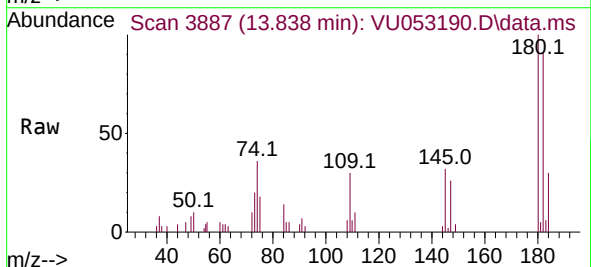


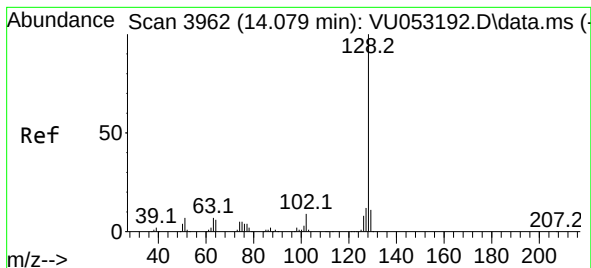
Tgt Ion:180	Resp:	7565
Ion	Ratio	Lower Upper
180	100	
182	99.2	74.5 111.7
184	34.1	23.2 34.8
145	35.7	26.6 39.8



#70
 1,2,4-trichlorobenzene
 Concen: 3.564 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU053190.D
 Acq: 15 Mar 2023 09:49

Tgt Ion:180	Resp:	6378
Ion	Ratio	Lower Upper
180	100	
182	94.7	75.8 113.8
145	34.9	27.2 40.8





#71

Naphthalene

Concen: 3.058 ug/L

RT: 14.089 min Scan# 3962

Delta R.T. 0.010 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD005005

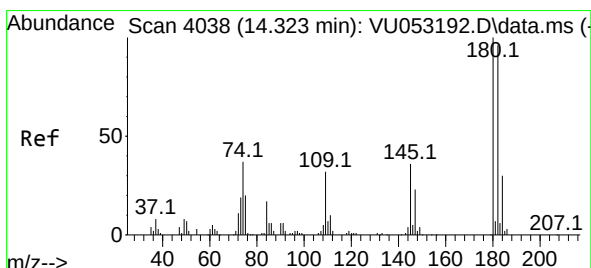
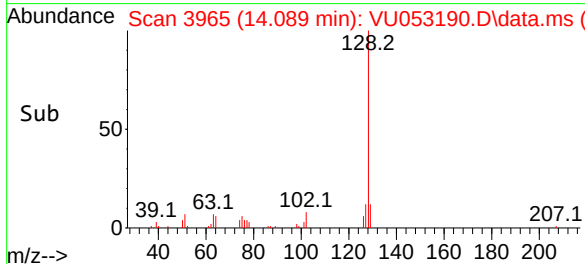
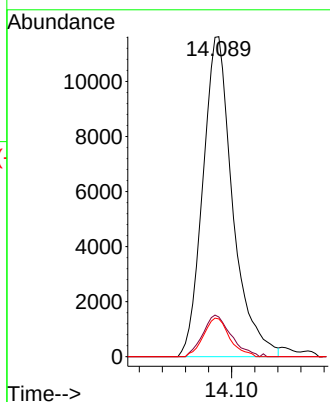
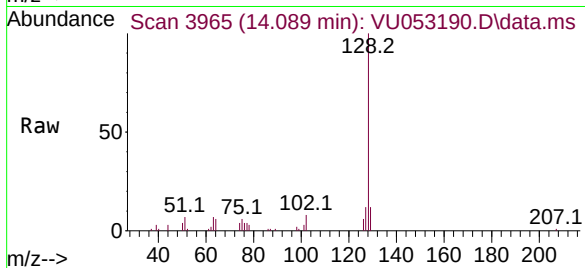
Tgt Ion:128 Resp: 20865

Ion Ratio Lower Upper

128 100

127 12.3 10.0 15.0

129 10.5 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 3.300 ug/L

RT: 14.330 min Scan# 4040

Delta R.T. 0.007 min

Lab File: VU053190.D

Acq: 15 Mar 2023 09:49

Tgt Ion:180 Resp: 5880

Ion Ratio Lower Upper

180 100

182 104.2 76.7 115.1

145 33.3 28.6 42.8

