

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U091423\
 Data File : VU055305.D
 Acq On : 14 Sep 2023 13:18
 Operator : MD/SY
 Sample : 04380-19
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 15 03:01:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 15 02:53:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	176336	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	176569	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	84402	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	23413	2.833	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	56.600%
7) Chloroethane-d5	1.911	69	39805	4.161	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.200%
11) 1,1-Dichloroethene-d2	2.563	65	12792	2.716	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.400%#
20) 2-Butanone-d5	4.634	46	146023	60.886	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.780%
24) Chloroform-d	5.062	84	97798	4.459	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.200%
26) 1,2-Dichloroethane-d4	5.698	65	52149	4.753	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	5.724	84	175580	4.029	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.600%
36) 1,2-Dichloropropane-d6	6.688	67	65114	4.697	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.000%
41) Toluene-d8	7.897	98	137260	3.419	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.400%#
43) trans-1,3-Dichloroprop...	8.180	79	12520	3.280	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	65.600%
46) 2-Hexanone-d5	8.634	63	74787	48.254	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.500%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	48635	4.989	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.800%
66) 1,2-Dichlorobenzene-d4	12.193	152	52494	4.261	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	51146	4.648	ug/L	98
9) Trichlorofluoromethane	2.136	101	26395	1.649	ug/L	99
12) 1,1-Dichloroethene	2.576	96	13590	1.667	ug/L #	65
16) Methylene chloride	3.046	84	3687	0.296	ug/L	81
17) Methyl tert-butyl Ether	3.361	73	13373	0.625	ug/L	95
18) trans-1,2-Dichloroethene	3.351	96	43502	5.259	ug/L	90
19) 1,1-Dichloroethane	3.865	63	10313	0.577	ug/L	91
22) cis-1,2-Dichloroethene	4.660	96	6089194	601.417	ug/L	91
25) Chloroform	5.081	83	12021	0.646	ug/L	83
33) Benzene	5.772	78	7793	0.207	ug/L	100
34) Trichloroethene	6.541	95	7822714	749.020	ug/L	97
35) Methylcyclohexane	6.688	83	14745	1.006	ug/L #	19
37) 1,2-Dichloropropane	6.688	63	7456	0.729	ug/L #	90
45) 1,1,2-Trichloroethane	8.399	97	5666	0.822	ug/L	94
47) Tetrachloroethene	8.550	164	42292	5.859	ug/L	98
48) 2-Hexanone	8.682	43	18786	4.110	ug/L	96
49) Dibromochloromethane	8.550	129	42108	5.598	ug/L #	9
51) Chlorobenzene	9.444	112	23448	0.884	ug/L	97
61) 1,2,3-Trichloropropane	11.746	75	6740	1.203	ug/L #	51

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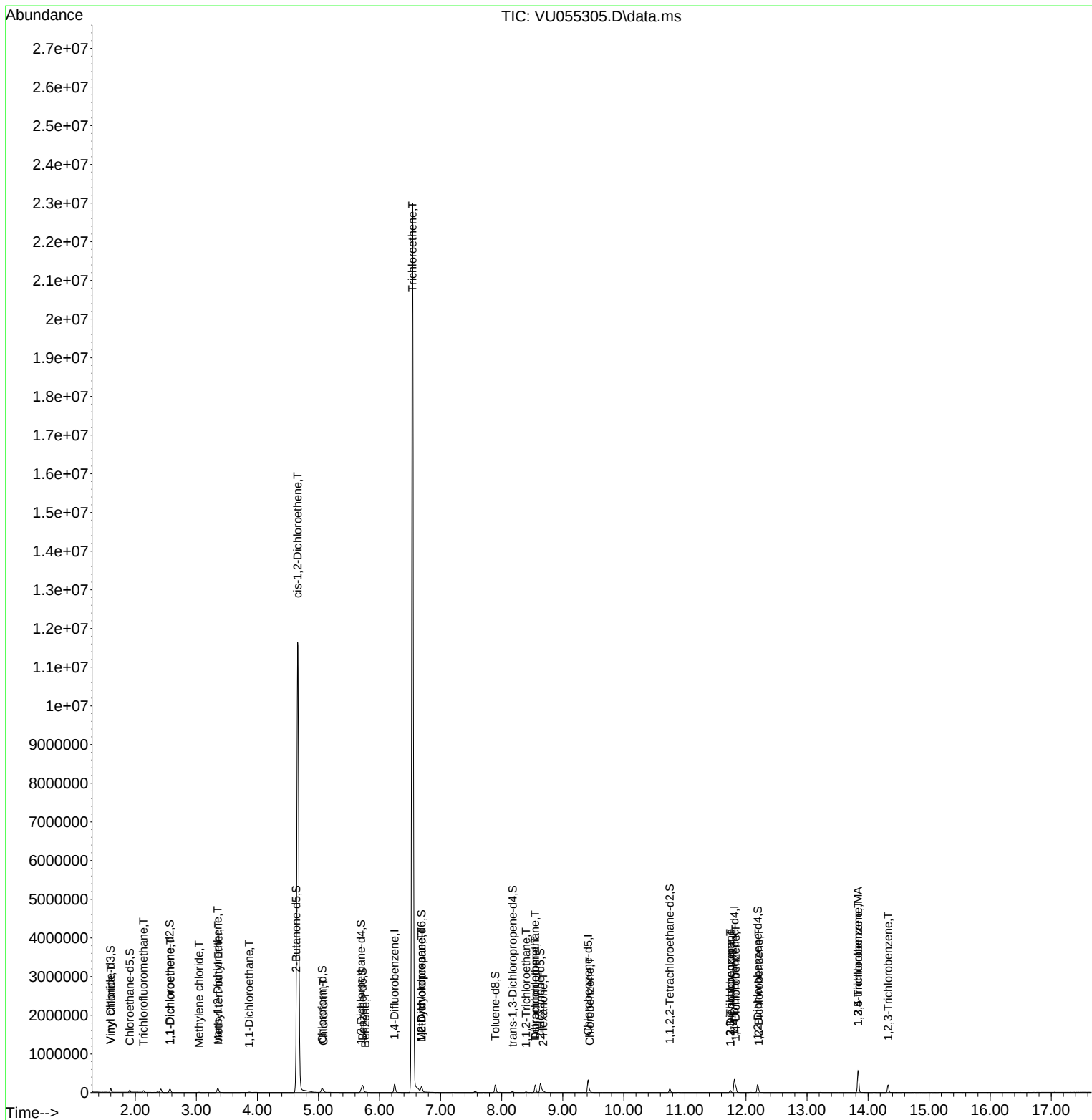
Instrument :
MSVOA_U
ClientSampleId :

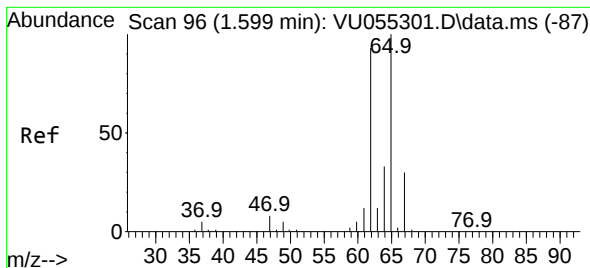
Quant Time: Sep 15 03:01:40 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Sep 15 02:53:52 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.746	146	21451	1.135	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	52632	2.795	ug/L	97
67) 1,2-Dichlorobenzene	12.212	146	10995	0.621	ug/L	94
69) 1,3,5-Trichlorobenzene	13.836	180	163574	11.456	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	163574	12.217	ug/L	96
72) 1,2,3-Trichlorobenzene	14.328	180	57890	4.982	ug/L	98

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

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#5

Vinyl chloride

Concen: 4.648 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

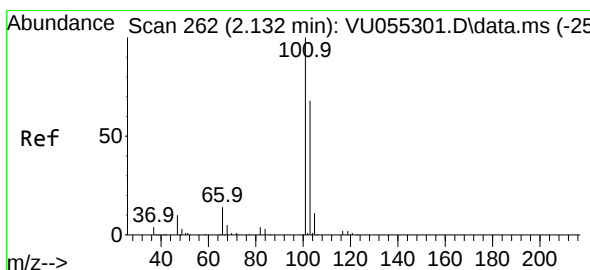
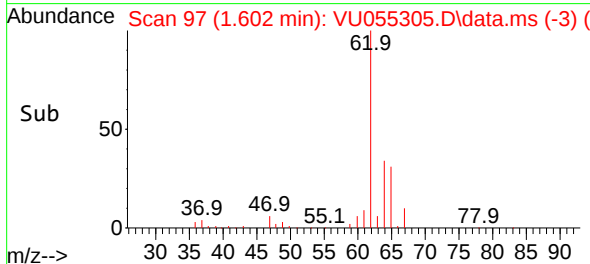
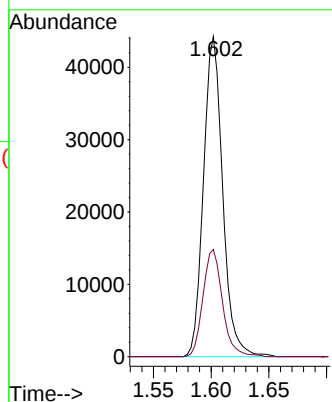
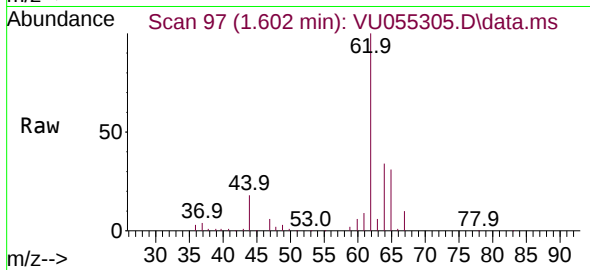
ClientSampleId :

Tgt Ion: 62 Resp: 51146

Ion Ratio Lower Upper

62 100

64 33.5 24.2 45.0



#9

Trichlorofluoromethane

Concen: 1.649 ug/L

RT: 2.136 min Scan# 263

Delta R.T. 0.003 min

Lab File: VU055305.D

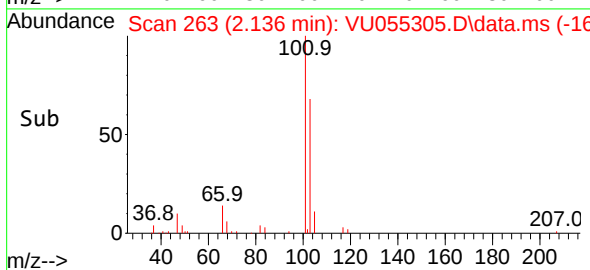
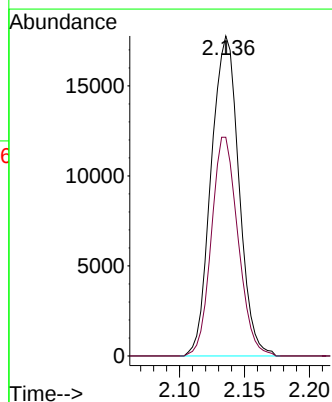
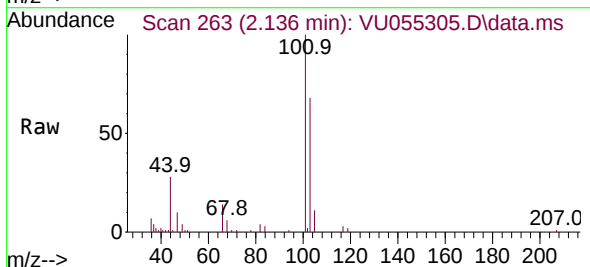
Acq: 14 Sep 2023 13:18

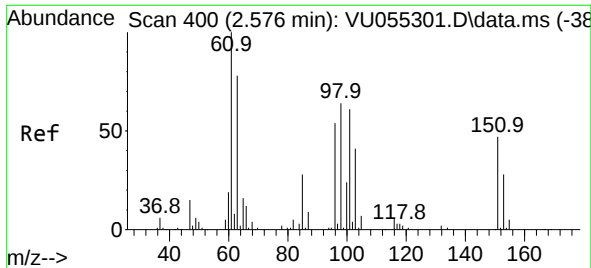
Tgt Ion: 101 Resp: 26395

Ion Ratio Lower Upper

101 100

103 65.6 51.9 77.9

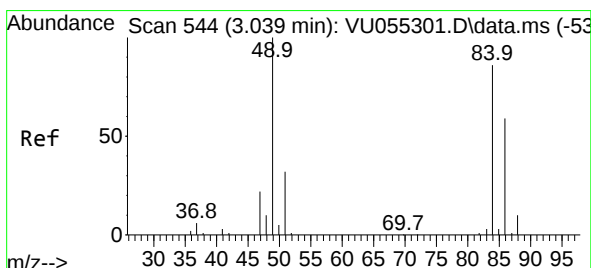
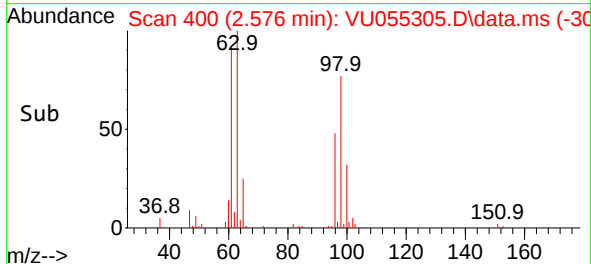
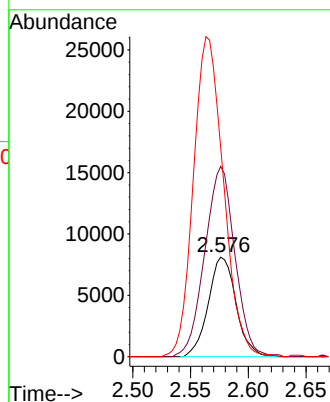
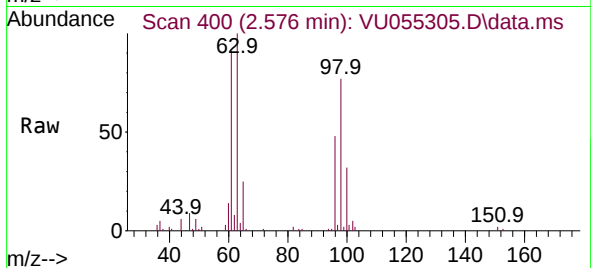




#12
1,1-Dichloroethene
Concen: 1.667 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

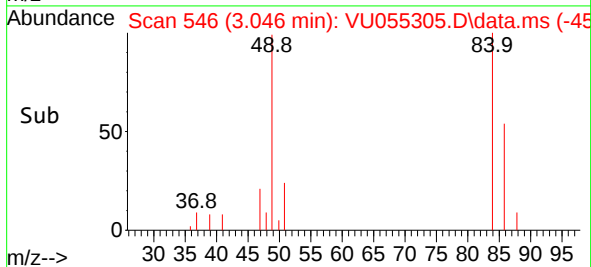
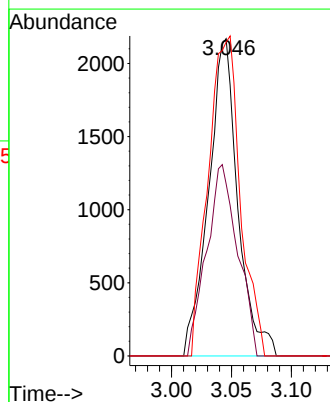
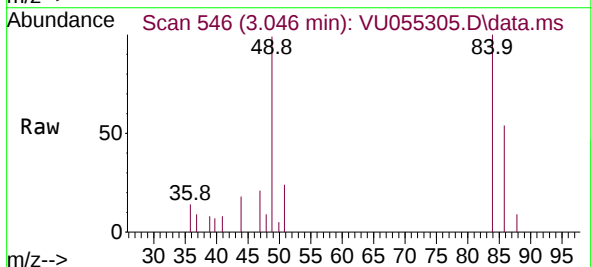
Instrument :
MSVOA_U
ClientSampleId :

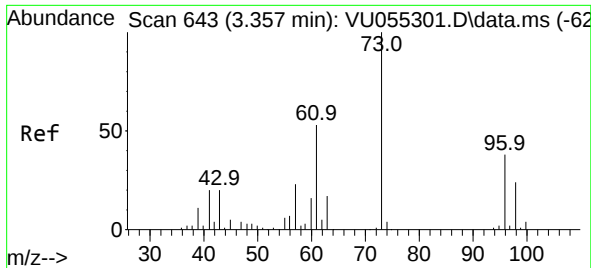
Tgt Ion: 96 Resp: 13590
Ion Ratio Lower Upper
96 100
61 191.1 120.8 224.4
63 210.1 94.5 175.5#



#16
Methylene chloride
Concen: 0.296 ug/L
RT: 3.046 min Scan# 546
Delta R.T. 0.006 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

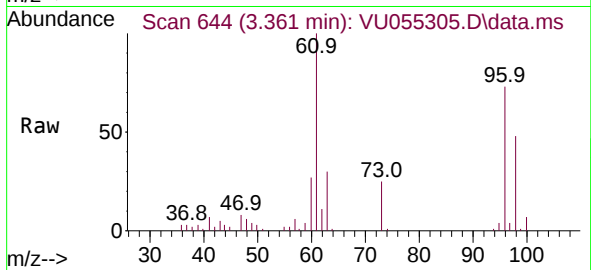
Tgt Ion: 84 Resp: 3687
Ion Ratio Lower Upper
84 100
86 54.3 43.4 80.6
49 98.9 87.7 162.9



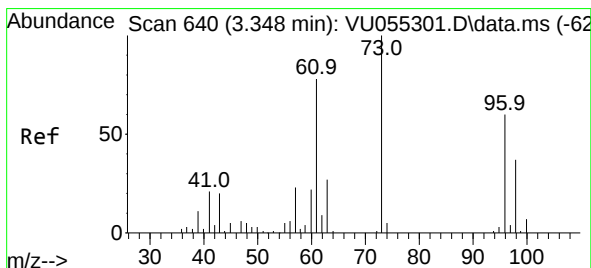
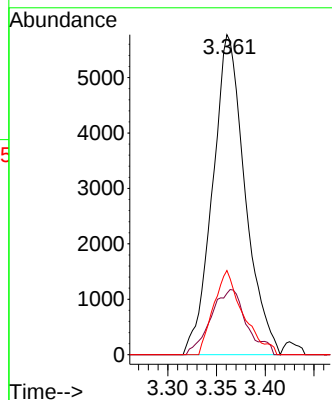
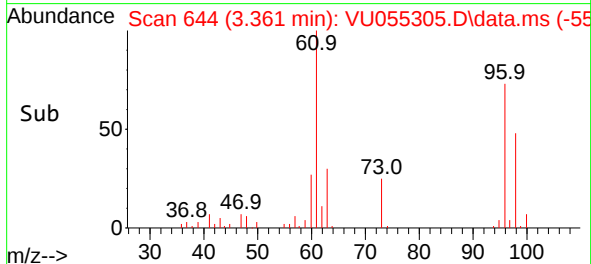


#17
Methyl tert-butyl Ether
Concen: 0.625 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

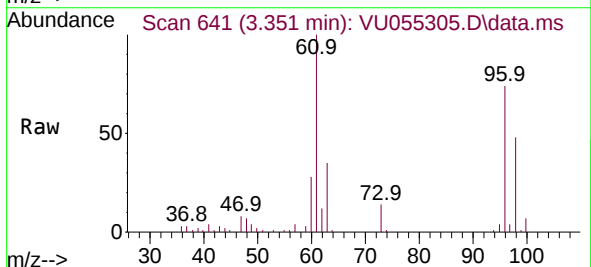
Instrument :
MSVOA_U
ClientSampleId :



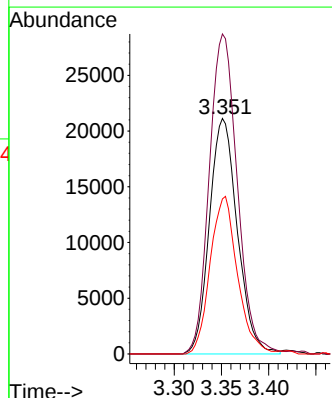
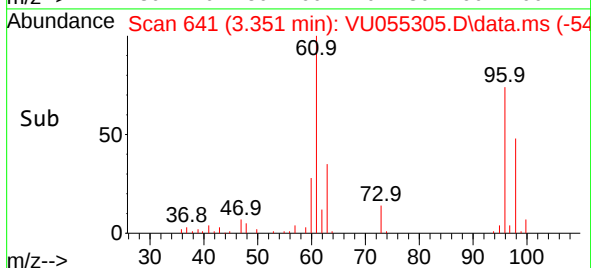
Tgt Ion: 73 Resp: 13373
Ion Ratio Lower Upper
73 100
43 22.4 16.2 24.2
57 23.9 17.4 26.2

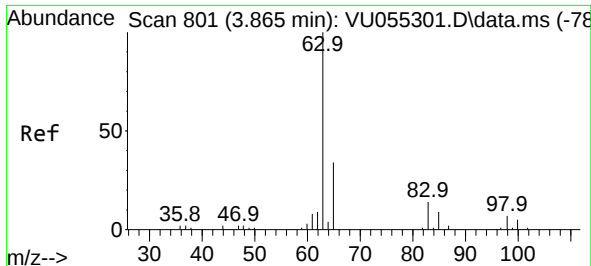


#18
trans-1,2-Dichloroethene
Concen: 5.259 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18



Tgt Ion: 96 Resp: 43502
Ion Ratio Lower Upper
96 100
61 135.9 108.1 200.9
98 65.9 45.4 84.4





#19

1,1-Dichloroethane

Concen: 0.577 ug/L

RT: 3.865 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU055305.D

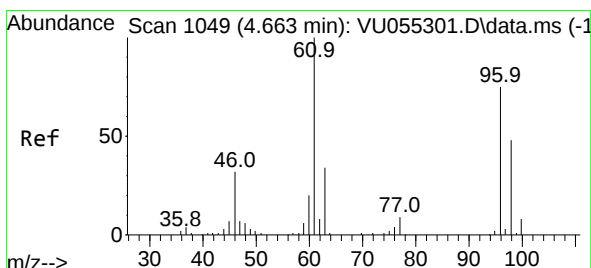
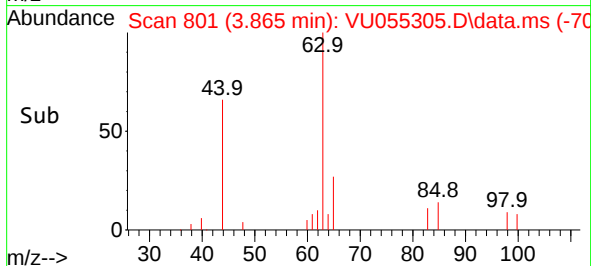
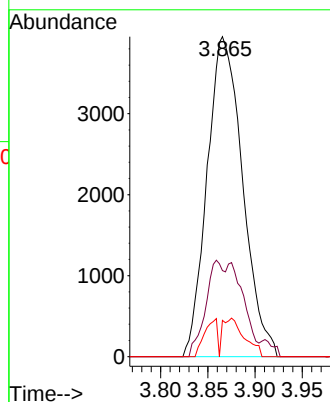
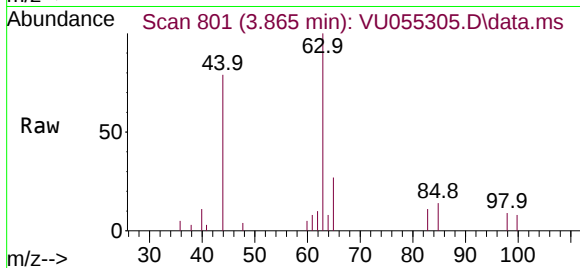
Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	63	Resp:	10313
Ion	Ratio	Lower	Upper
63	100		
65	26.9	22.2	41.2
83	11.3	10.6	19.8



#22

cis-1,2-Dichloroethene

Concen: 601.417 ug/L

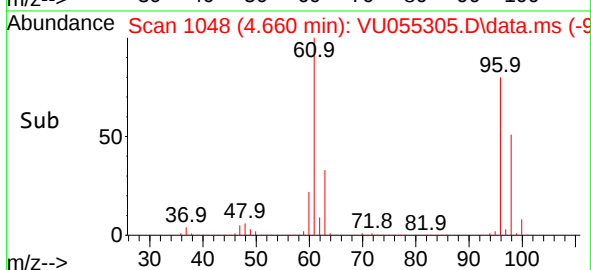
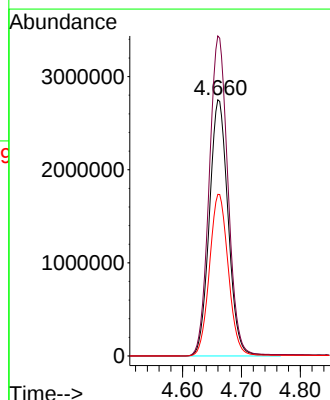
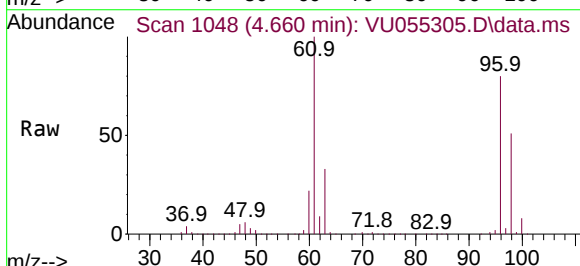
RT: 4.660 min Scan# 1048

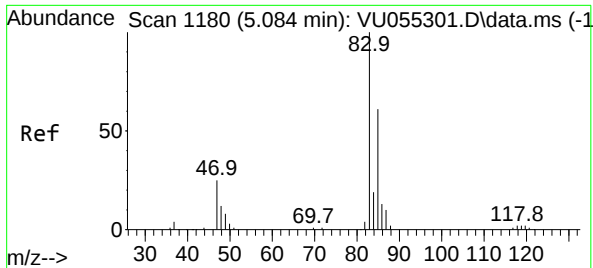
Delta R.T. -0.003 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Tgt Ion:	96	Resp:	6089194
Ion	Ratio	Lower	Upper
96	100		
61	124.9	97.2	180.4
98	63.1	46.1	85.7





#25

Chloroform

Concen: 0.646 ug/L

RT: 5.081 min Scan# 1180

Delta R.T. -0.003 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

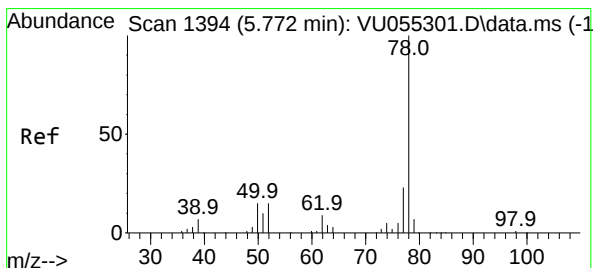
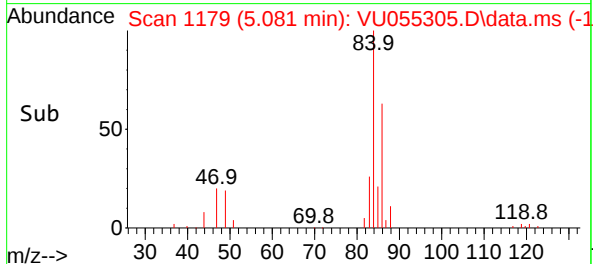
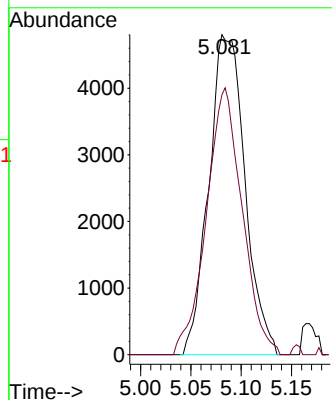
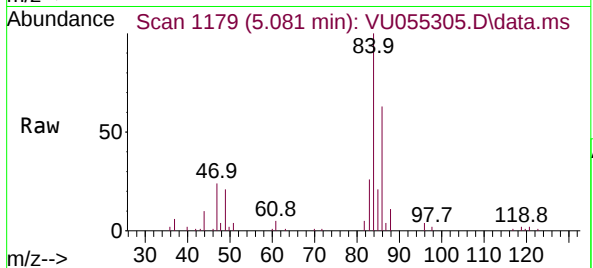
ClientSampleId :

Tgt Ion: 83 Resp: 12021

Ion Ratio Lower Upper

83 100

85 81.2 47.2 87.6



#33

Benzene

Concen: 0.207 ug/L

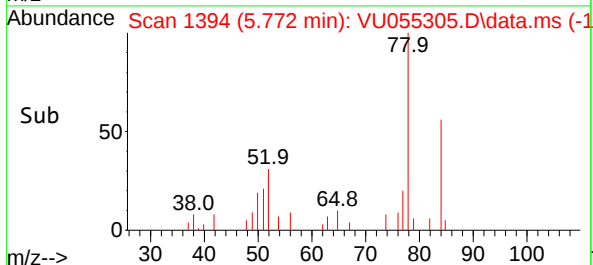
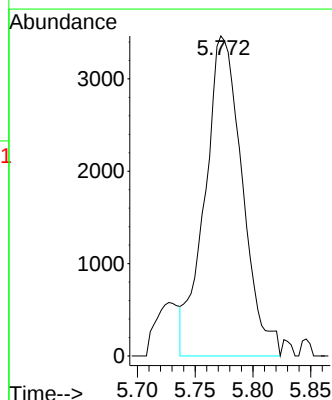
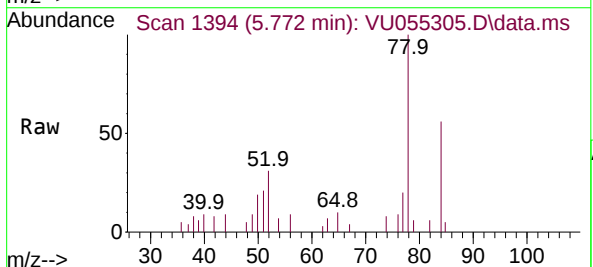
RT: 5.772 min Scan# 1394

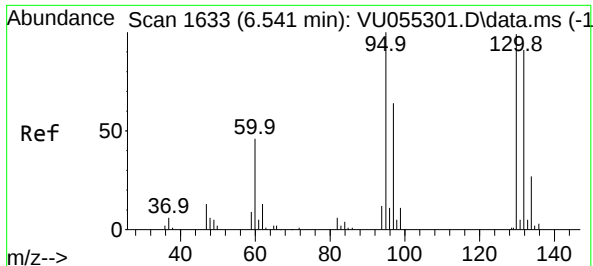
Delta R.T. 0.000 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Tgt Ion: 78 Resp: 7793





#34

Trichloroethene

Concen: 749.020 ug/L

RT: 6.541 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 7822714

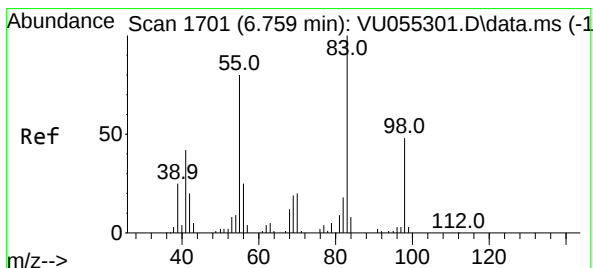
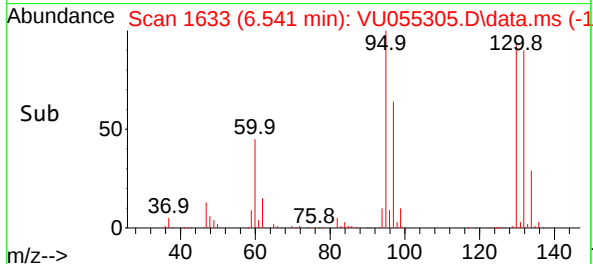
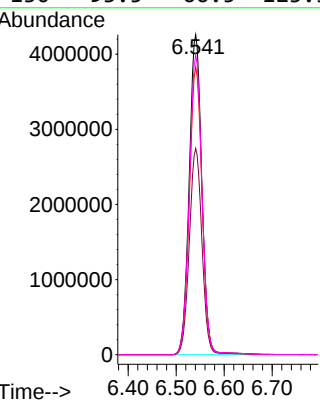
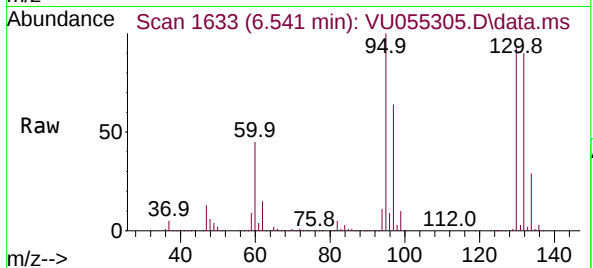
Ion Ratio Lower Upper

95 100

97 64.4 44.7 83.1

132 89.8 66.6 123.6

130 93.5 66.5 123.5



#35

Methylcyclohexane

Concen: 1.006 ug/L

RT: 6.688 min Scan# 1679

Delta R.T. -0.071 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

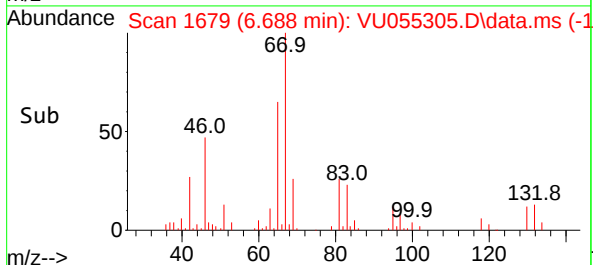
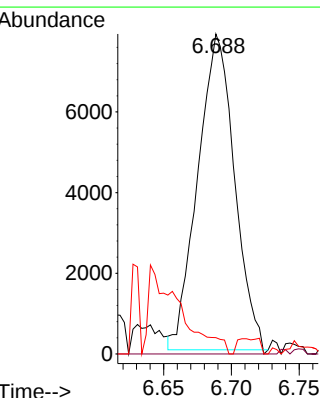
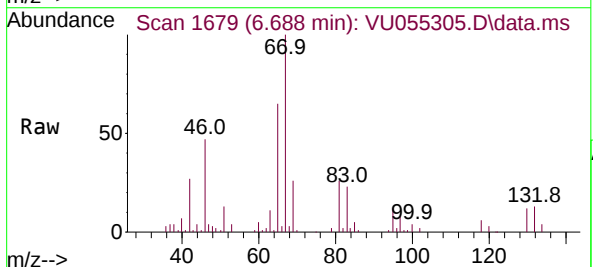
Tgt Ion: 83 Resp: 14745

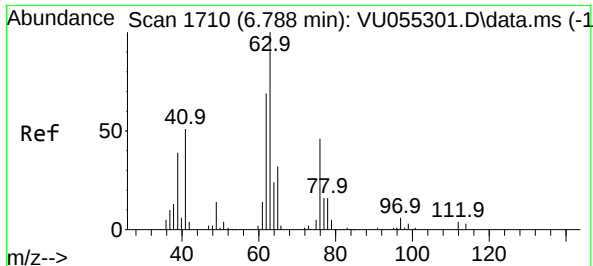
Ion Ratio Lower Upper

83 100

55 0.3 60.4 90.6#

98 0.0 35.3 52.9#

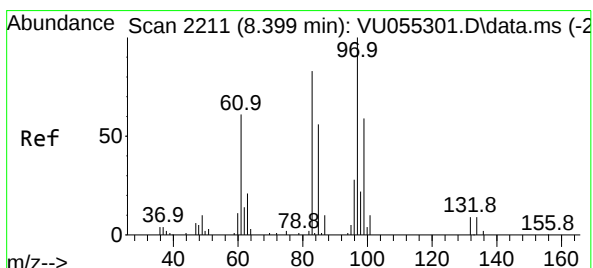
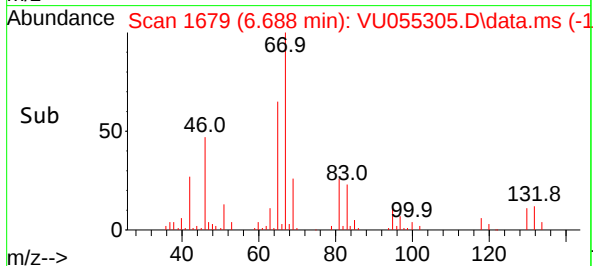
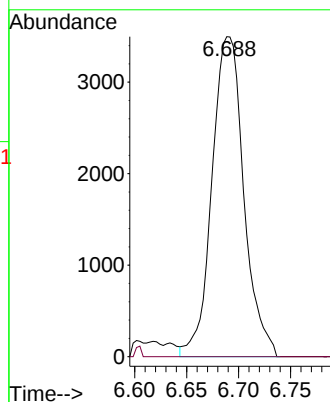
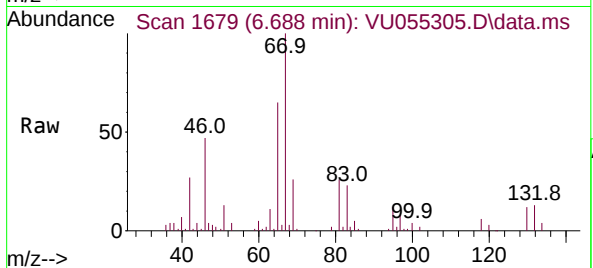




#37
1,2-Dichloropropane
Concen: 0.729 ug/L
RT: 6.688 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

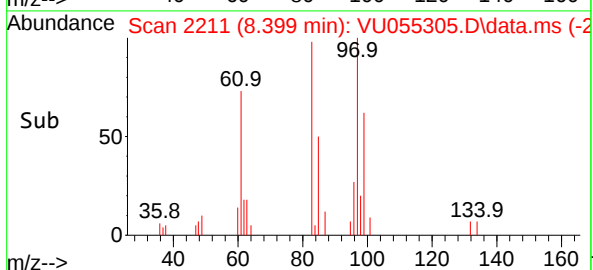
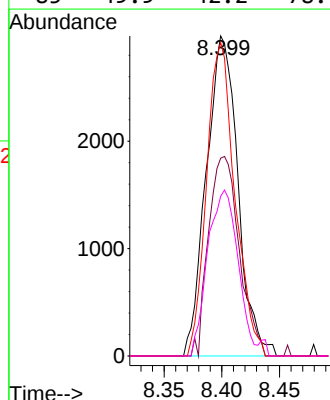
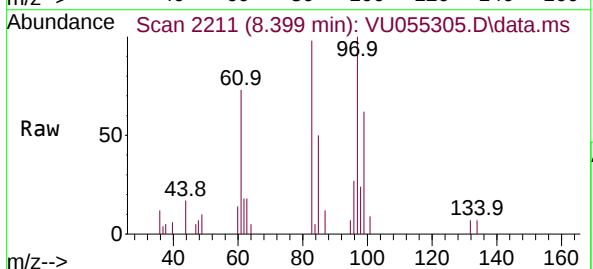
Instrument :
MSVOA_U
ClientSampleId :

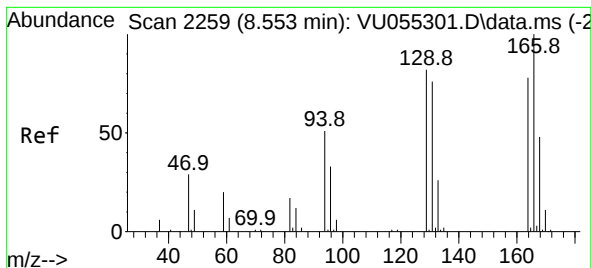
Tgt Ion: 63 Resp: 7456
Ion Ratio Lower Upper
63 100
112 0.5 3.2 4.8#



#45
1,1,2-Trichloroethane
Concen: 0.822 ug/L
RT: 8.399 min Scan# 2211
Delta R.T. 0.000 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

Tgt Ion: 97 Resp: 5666
Ion Ratio Lower Upper
97 100
99 61.8 44.9 83.5
83 97.9 66.9 124.3
85 49.9 42.2 78.4





#47

Tetrachloroethene

Concen: 5.859 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.003 min

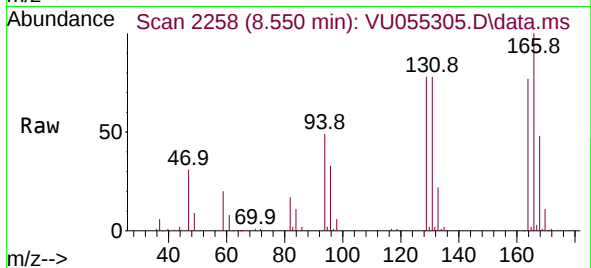
Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 42292

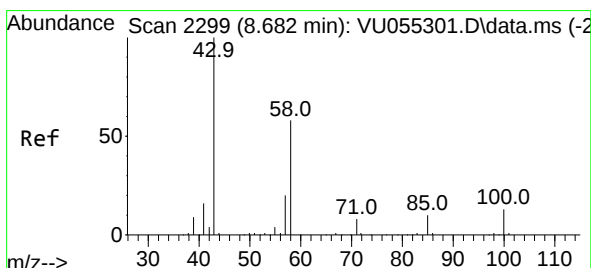
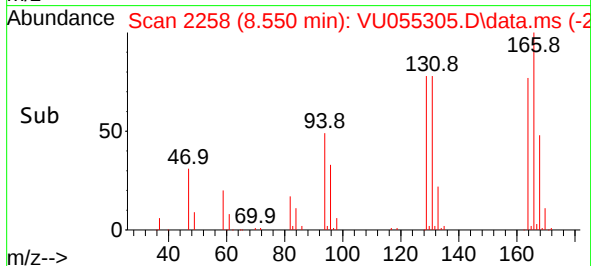
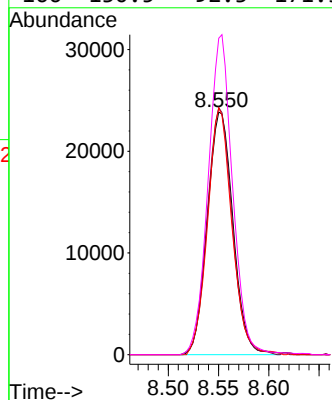
Ion Ratio Lower Upper

164 100

129 101.8 69.2 128.6

131 101.7 68.8 127.8

166 130.5 92.3 171.5



#48

2-Hexanone

Concen: 4.110 ug/L

RT: 8.682 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Tgt Ion: 43 Resp: 18786

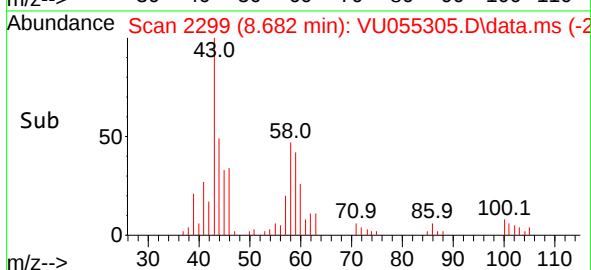
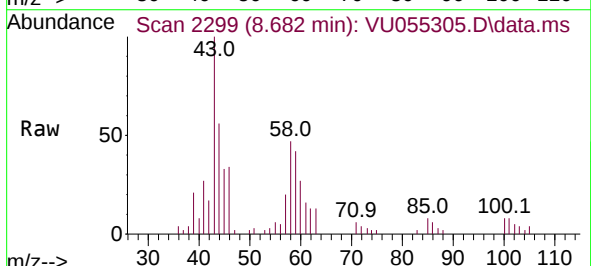
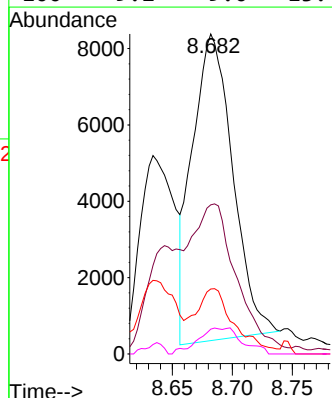
Ion Ratio Lower Upper

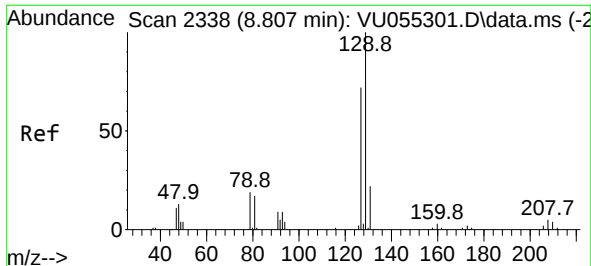
43 100

58 51.5 44.0 66.0

57 19.8 16.2 24.2

100 9.2 9.0 13.4





#49

Dibromochloromethane

Concen: 5.598 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

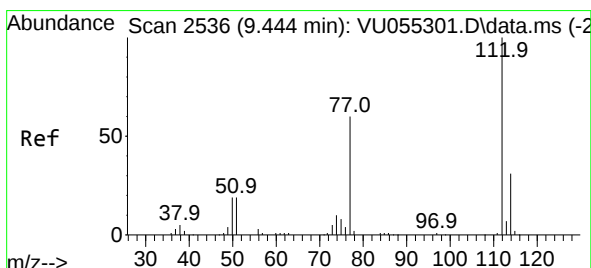
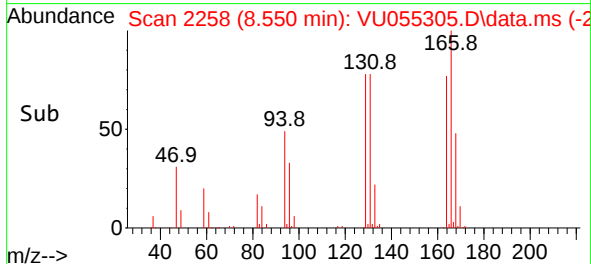
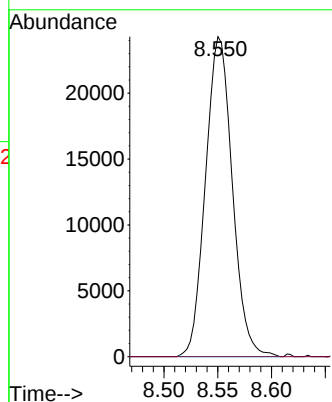
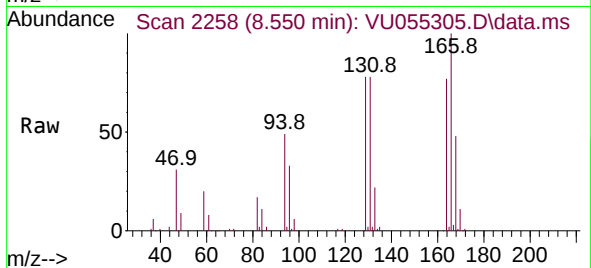
ClientSampleId :

Tgt Ion:129 Resp: 42108

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#51

Chlorobenzene

Concen: 0.884 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

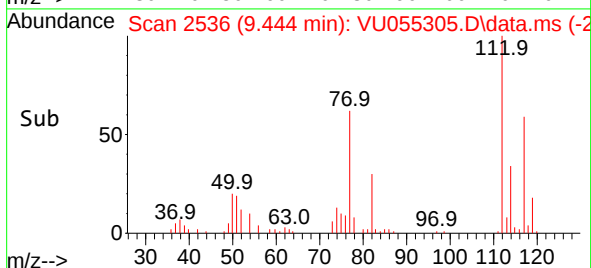
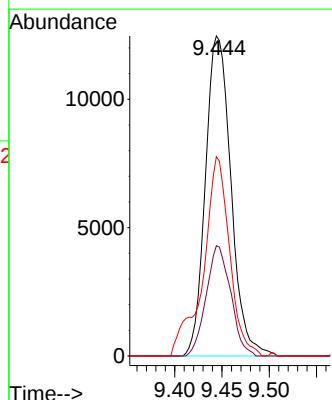
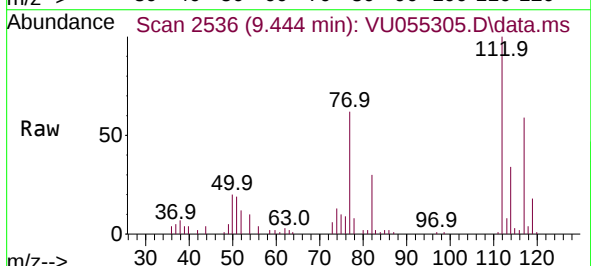
Tgt Ion:112 Resp: 23448

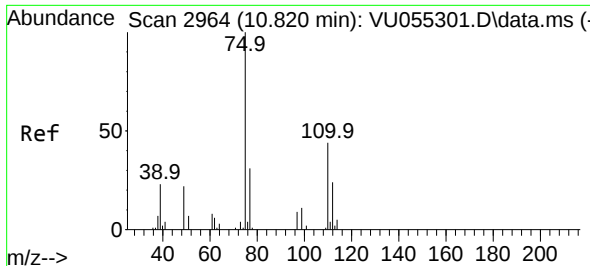
Ion Ratio Lower Upper

112 100

114 34.5 21.7 40.3

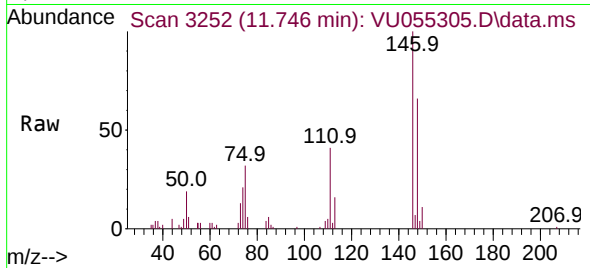
77 62.2 48.6 72.8



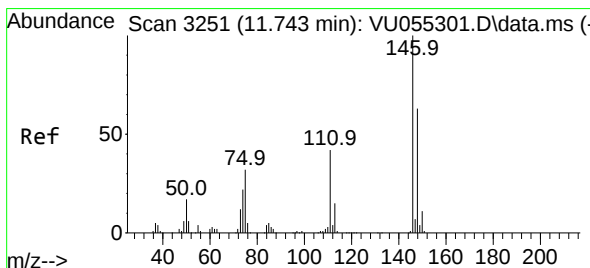
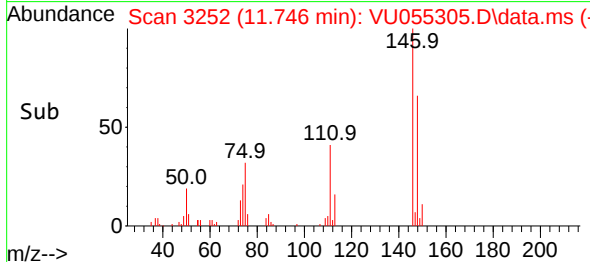
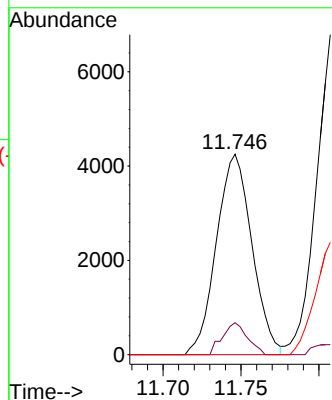


#61
1,2,3-Trichloropropane
Concen: 1.203 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.926 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

Instrument :
MSVOA_U
ClientSampleId :

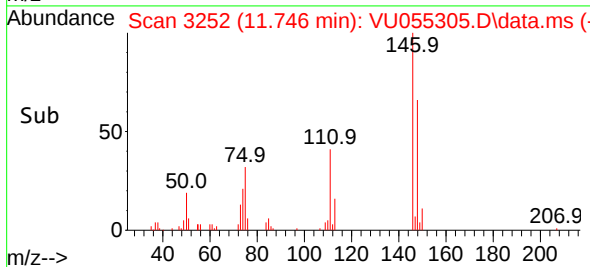
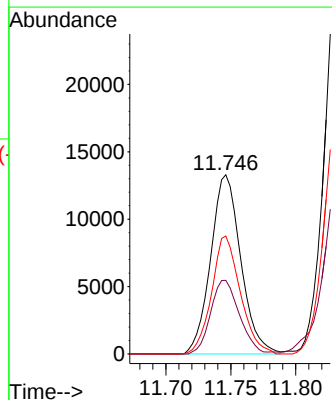
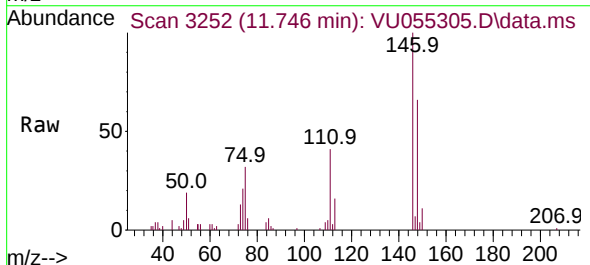


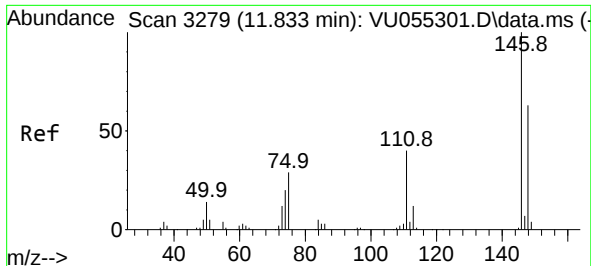
Tgt Ion: 75 Resp: 6740
Ion Ratio Lower Upper
75 100
110 11.2 28.2 42.2#
77 0.0 26.2 39.4#



#64
1,3-Dichlorobenzene
Concen: 1.135 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

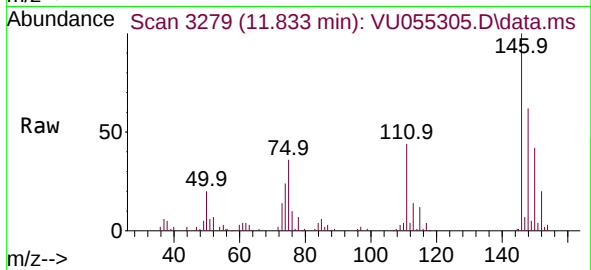
Tgt Ion:146 Resp: 21451
Ion Ratio Lower Upper
146 100
111 41.1 30.0 55.6
148 65.8 45.2 84.0



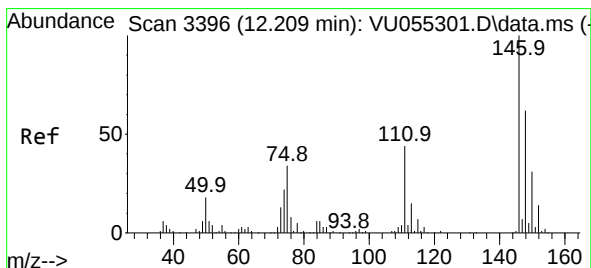
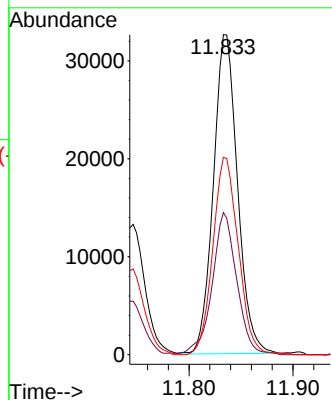
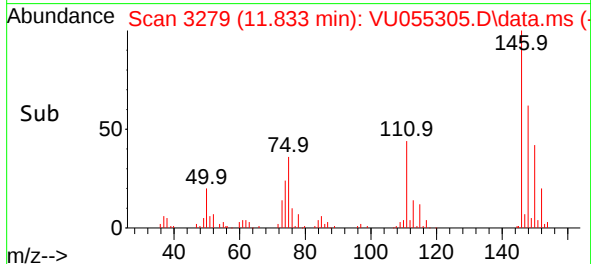


#65
1,4-Dichlorobenzene
Concen: 2.795 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18

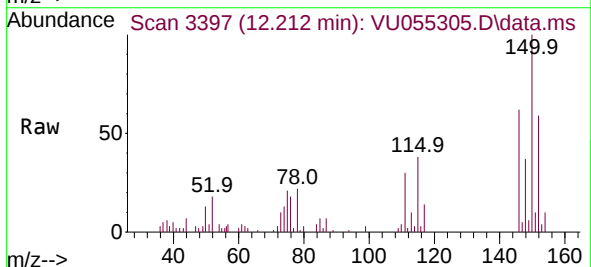
Instrument :
MSVOA_U
ClientSampleId :



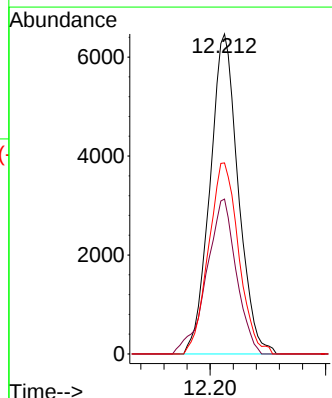
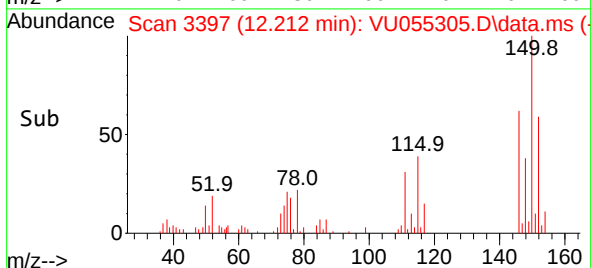
Tgt Ion:146 Resp: 52632
Ion Ratio Lower Upper
146 100
111 44.4 28.1 52.1
148 61.7 43.8 81.3

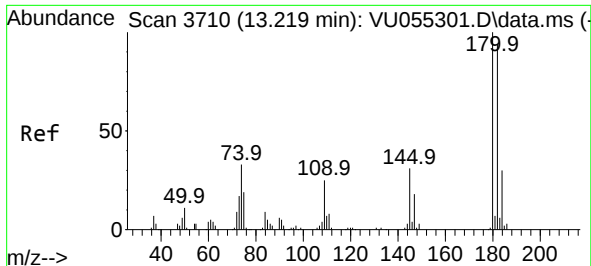


#67
1,2-Dichlorobenzene
Concen: 0.621 ug/L
RT: 12.212 min Scan# 3397
Delta R.T. 0.003 min
Lab File: VU055305.D
Acq: 14 Sep 2023 13:18



Tgt Ion:146 Resp: 10995
Ion Ratio Lower Upper
146 100
111 48.4 35.6 53.4
148 59.7 51.3 76.9





#69

1,3,5-Trichlorobenzene

Concen: 11.456 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.617 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 163574

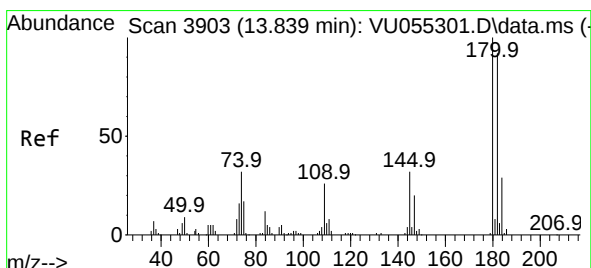
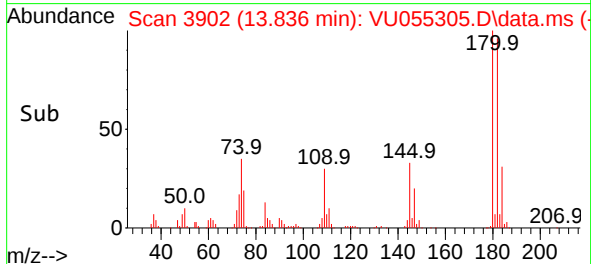
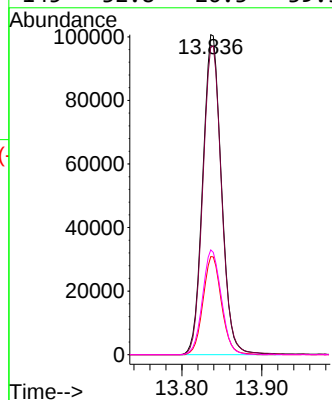
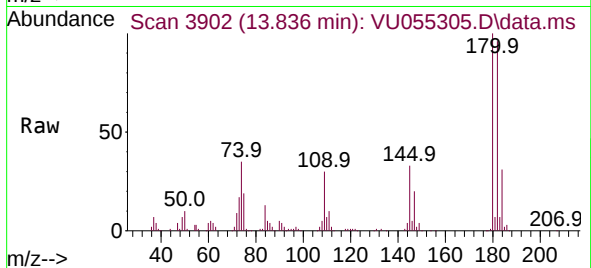
Ion Ratio Lower Upper

180 100

182 97.0 75.8 113.6

184 30.3 24.0 36.0

145 32.8 26.3 39.5



#70

1,2,4-trichlorobenzene

Concen: 12.217 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.003 min

Lab File: VU055305.D

Acq: 14 Sep 2023 13:18

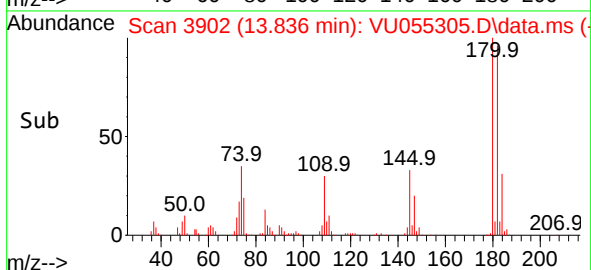
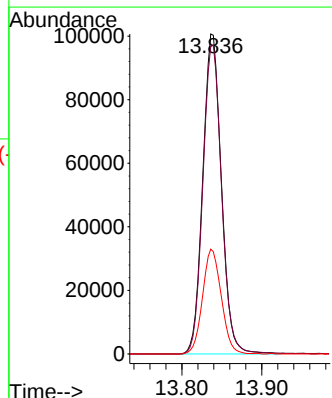
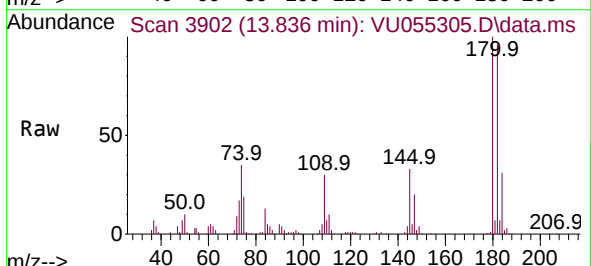
Tgt Ion:180 Resp: 163574

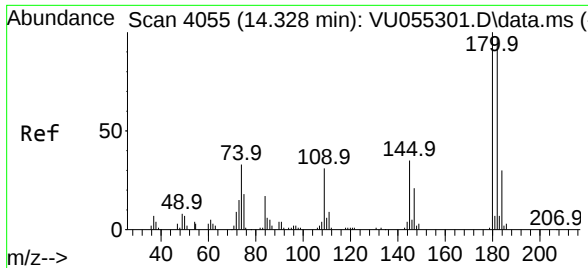
Ion Ratio Lower Upper

180 100

182 97.0 73.6 110.4

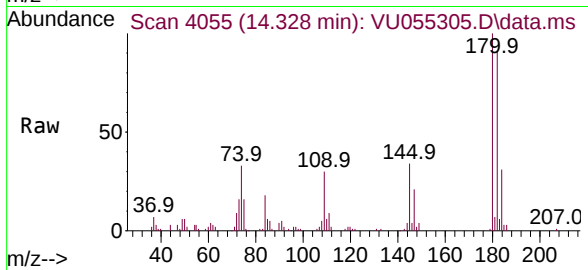
145 32.8 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 4.982 ug/L
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.000 min
 Lab File: VU055305.D
 Acq: 14 Sep 2023 13:18

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	57890
Ion Ratio	Lower	Upper	
180	100		
182	92.3	75.6	113.4
145	33.3	27.0	40.6

