

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
 Data File : VU063238.D
 Acq On : 11 Feb 2025 16:11
 Operator : MD/SY
 Sample : Q1172-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 12 03:20:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 11 08:42:19 2025
 Response via : Initial Calibration

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

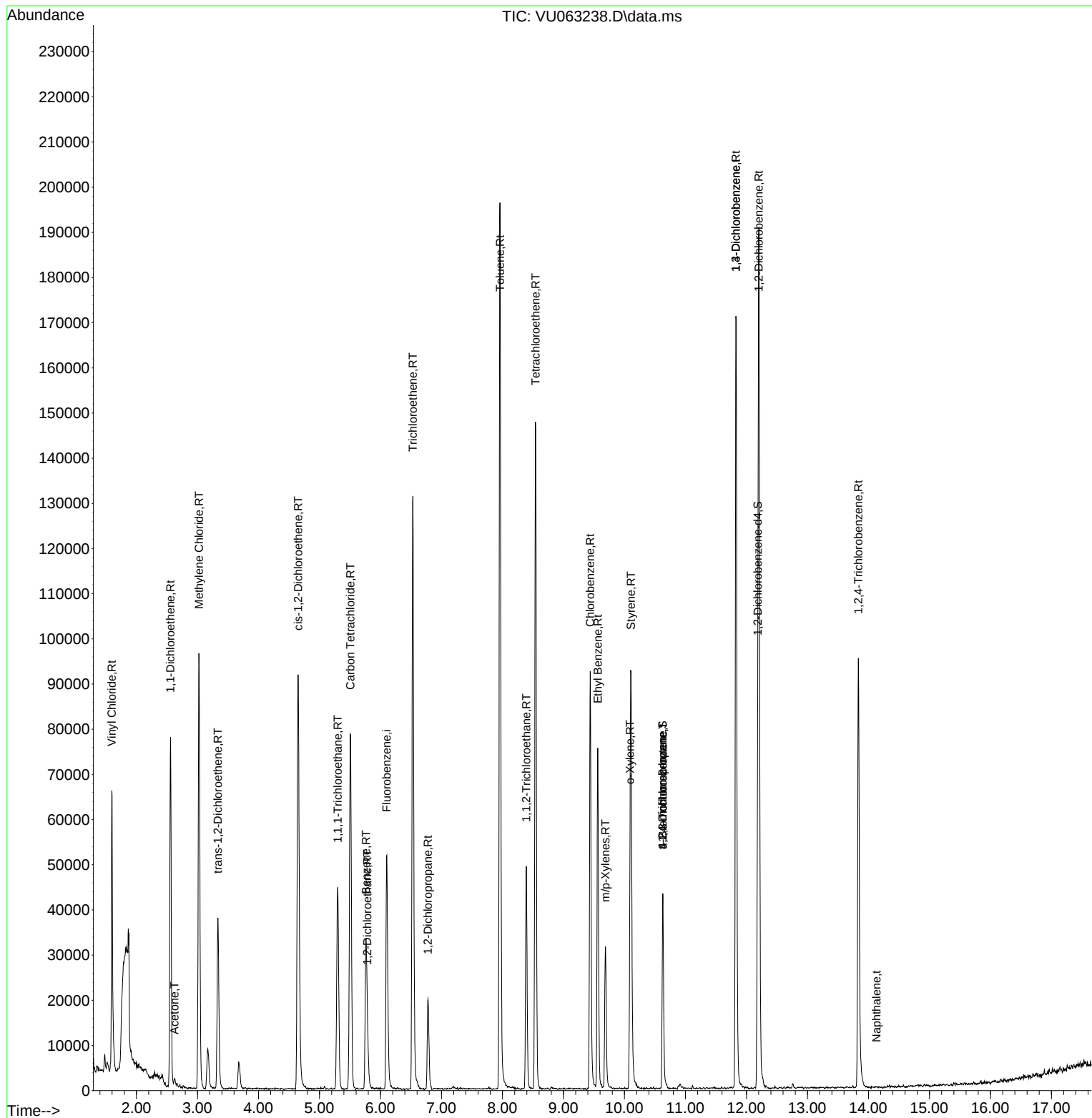
Internal Standards						
1) Fluorobenzene	6.100	96	48972	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	16177	1.001	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.000%	
68) 1,2-Dichlorobenzene-d4	12.184	152	16834	1.002	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.000%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.596	62	50988	2.812	ug/l	99
9) 1,1-Dichloroethene	2.557	96	26747	2.153	ug/l	96
13) Acetone	2.621	43	1174	0.533	ug/l #	68
15) Methylene Chloride	3.023	84	46007	2.997	ug/l	99
16) trans-1,2-Dichloroethene	3.335	96	16863	1.189	ug/l	91
22) cis-1,2-Dichloroethene	4.650	96	51055	3.332	ug/l	88
24) tert-Butyl Alcohol	3.165	59	6031	Below Cal	#	74
28) 1,1,1-Trichloroethane	5.300	97	33252	1.522	ug/l	98
30) Carbon Tetrachloride	5.505	117	54719	2.920	ug/l	97
35) Benzene	5.763	78	32304	0.537	ug/l	96
36) 1,2-Dichloroethane	5.785	62	8410	0.484	ug/l	98
37) Trichloroethene	6.531	130	45549	3.183	ug/l	97
38) 1,2-Dichloropropane	6.779	63	8432	0.535	ug/l	96
46) t-1,4-Dichloro-2-butene	10.627	75	8141	2.071	ug/l #	22
49) Toluene	7.959	92	82274	2.378	ug/l	95
52) 1,1,2-Trichloroethane	8.390	97	16006	1.489	ug/l	95
58) Tetrachloroethene	8.544	164	33312	2.825	ug/l	97
59) Chlorobenzene	9.438	112	50719	1.389	ug/l	98
63) Ethyl Benzene	9.563	91	55334	0.879	ug/l	98
64) m/p-Xylenes	9.689	106	10293	0.438	ug/l	91
65) o-Xylene	10.090	106	10322	0.448	ug/l	98
66) Styrene	10.107	104	42840	1.169	ug/l	96
71) 1,2,3-Trichloropropane	10.627	75	8141	0.748	ug/l #	43
82) 1,3-Dichlorobenzene	11.827	146	74144	2.620	ug/l	99
83) 1,4-Dichlorobenzene	11.827	146	74144	2.679	ug/l	99
85) 1,2-Dichlorobenzene	12.203	146	74314	2.733	ug/l	99
87) 1,2,4-Trichlorobenzene	13.836	180	34525	2.603	ug/l	98
89) Naphthalene	14.132	128	300	0.667	ug/l #	69

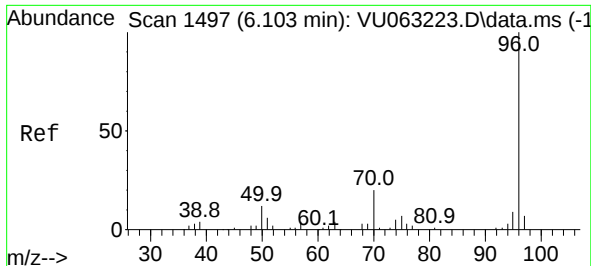
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
Data File : VU063238.D
Acq On : 11 Feb 2025 16:11
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Misc : 25.0mL/MSVOA_U/WATER
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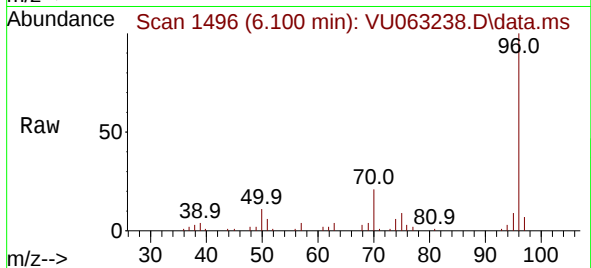
Quant Time: Feb 12 03:20:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 11 08:42:19 2025
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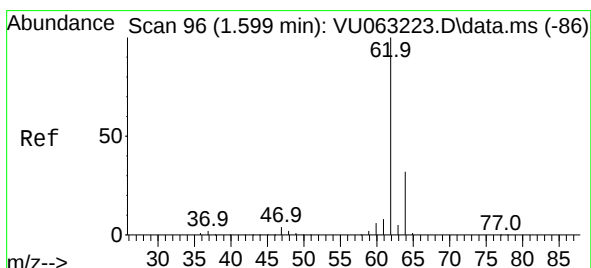
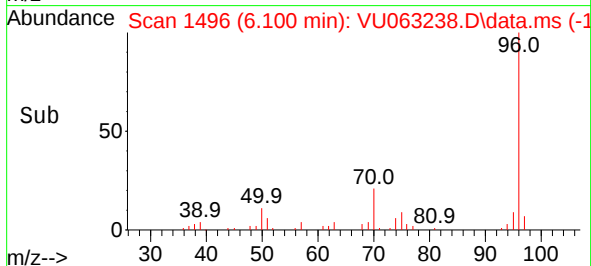
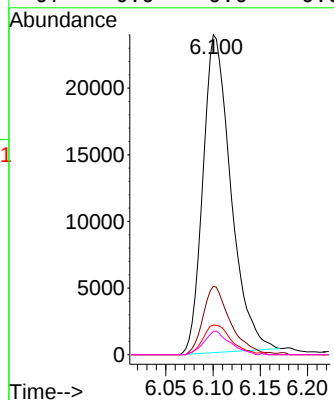


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 1497
Delta R.T. -0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Instrument :
MSVOA_U
ClientSampleId :

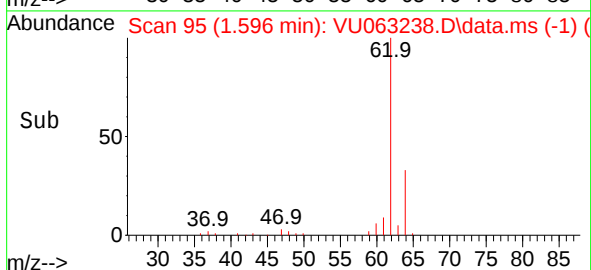
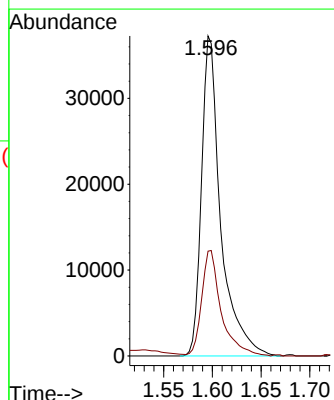
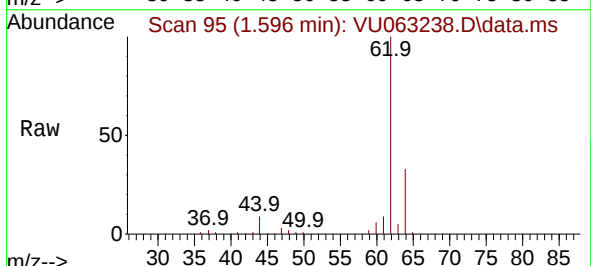


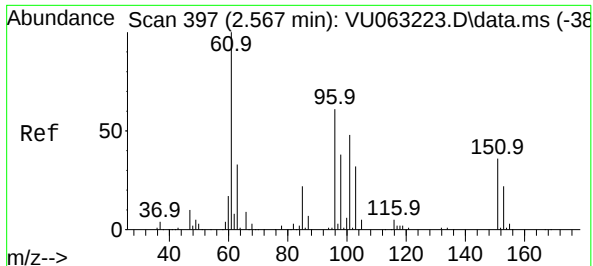
Tgt Ion: 96 Resp: 48972
Ion Ratio Lower Upper
96 100
70 20.5 15.6 23.4
95 9.4 7.3 10.9
97 6.9 0.0 0.0#



#4
Vinyl Chloride
Concen: 2.812 ug/l
RT: 1.596 min Scan# 95
Delta R.T. -0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion: 62 Resp: 50988
Ion Ratio Lower Upper
62 100
64 32.4 25.4 38.0

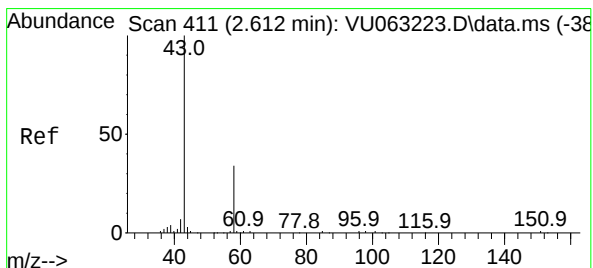
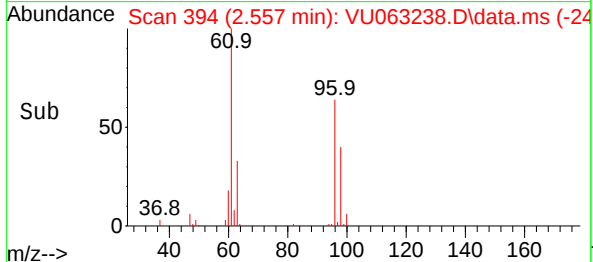
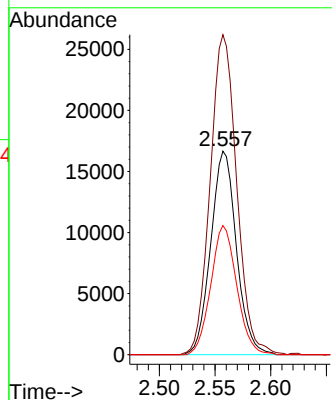
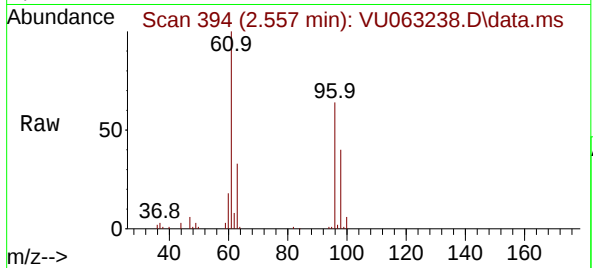




#9
1,1-Dichloroethene
Concen: 2.153 ug/l
RT: 2.557 min Scan# 397
Delta R.T. -0.010 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

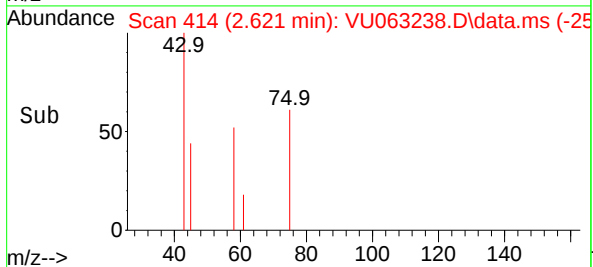
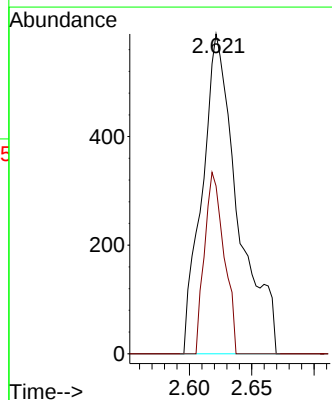
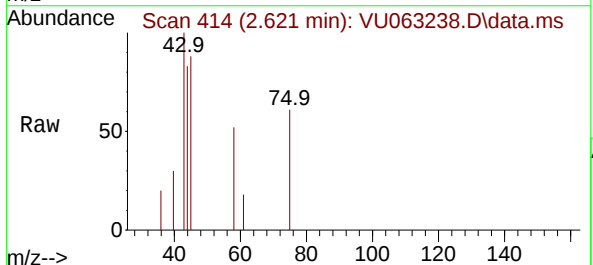
Instrument :
MSVOA_U
ClientSampleId :

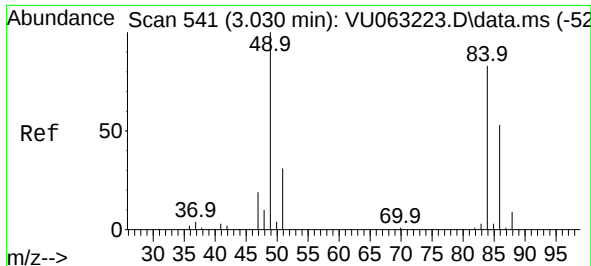
Tgt Ion: 96 Resp: 26747
Ion Ratio Lower Upper
96 100
61 157.2 0.0 492.9
98 63.4 0.0 124.0



#13
Acetone
Concen: 0.533 ug/l
RT: 2.621 min Scan# 414
Delta R.T. 0.010 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion: 43 Resp: 1174
Ion Ratio Lower Upper
43 100
58 52.5 27.4 41.0#





#15

Methylene Chloride

Concen: 2.997 ug/l

RT: 3.023 min Scan# 541

Delta R.T. -0.006 min

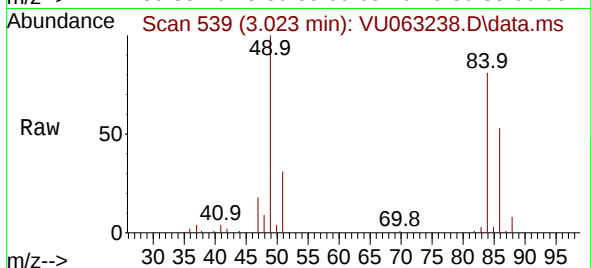
Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 84 Resp: 46007

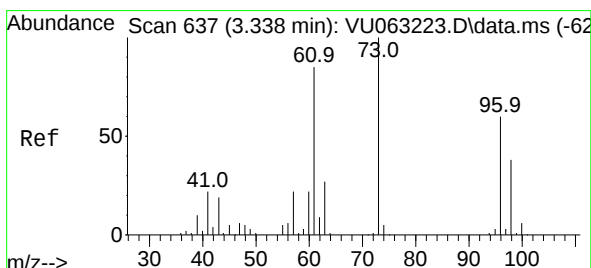
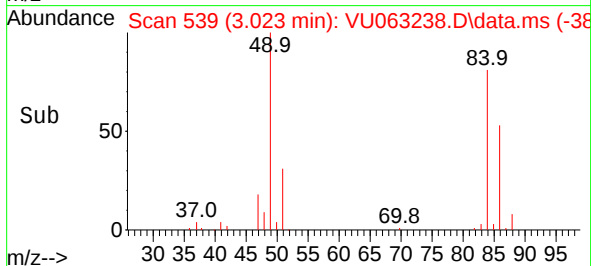
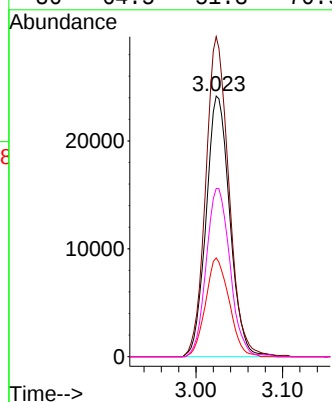
Ion Ratio Lower Upper

84 100

49 122.8 96.4 144.6

51 37.9 0.0 74.8

86 64.5 51.3 76.9



#16

trans-1,2-Dichloroethene

Concen: 1.189 ug/l

RT: 3.335 min Scan# 636

Delta R.T. -0.003 min

Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

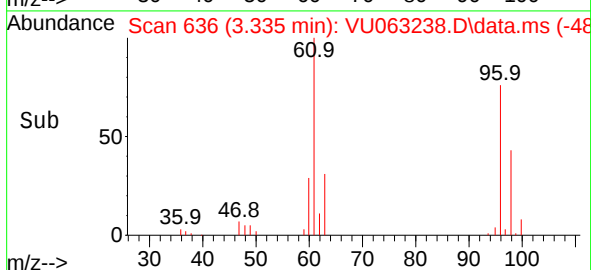
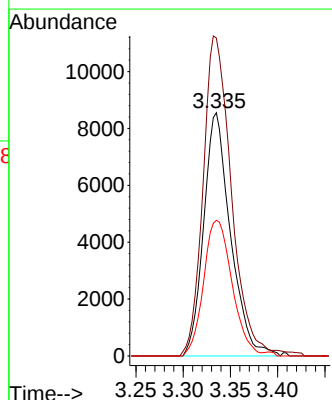
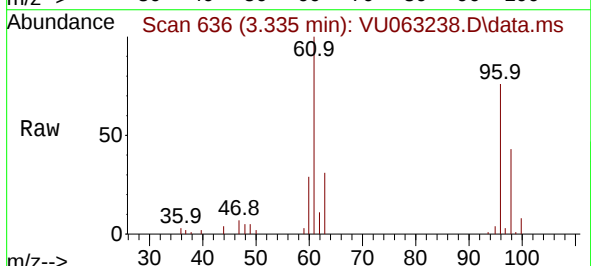
Tgt Ion: 96 Resp: 16863

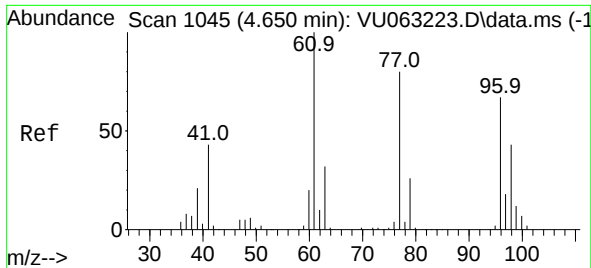
Ion Ratio Lower Upper

96 100

61 130.8 113.4 170.2

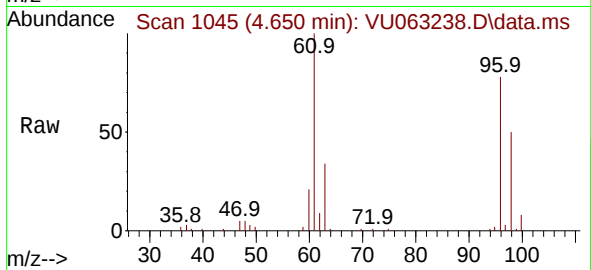
98 55.8 51.2 76.8



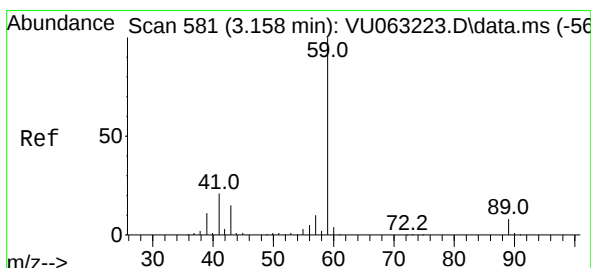
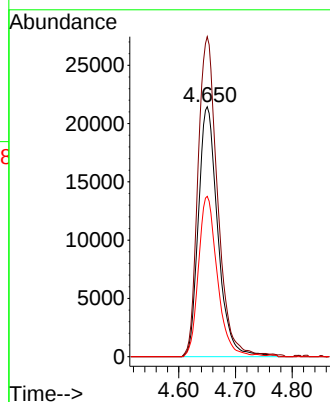
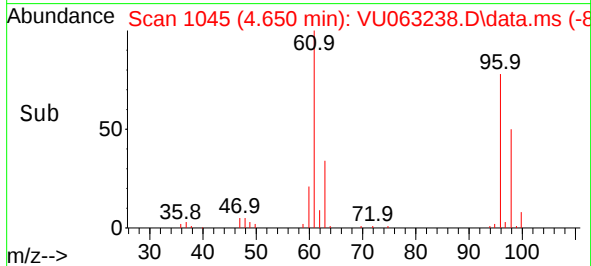


#22
cis-1,2-Dichloroethene
Concen: 3.332 ug/l
RT: 4.650 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Instrument :
MSVOA_U
ClientSampleId :

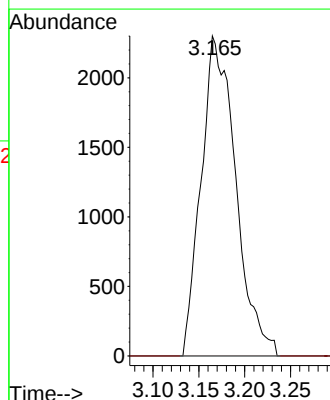
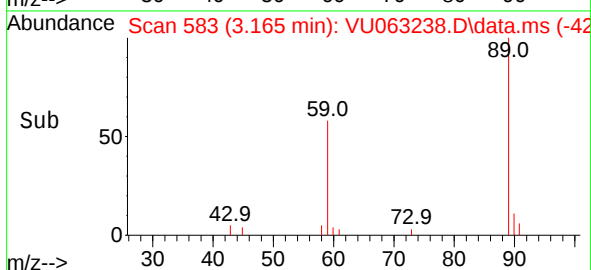
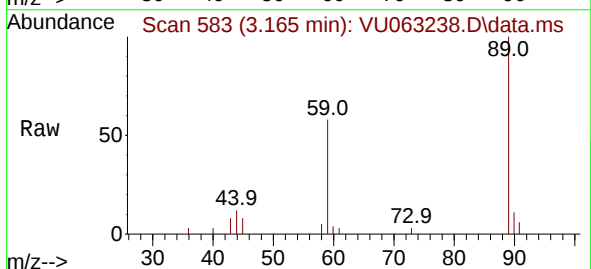


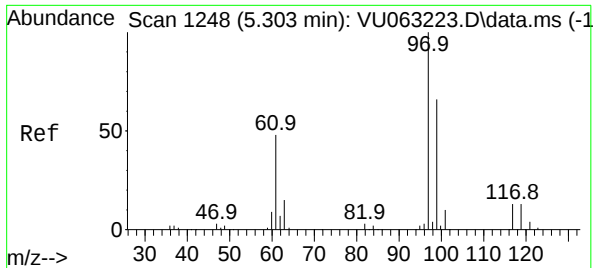
Tgt Ion: 96 Resp: 51055
Ion Ratio Lower Upper
96 100
61 128.5 0.0 373.3
98 62.2 31.9 95.9



#24
tert-Butyl Alcohol
Concen: Below Cal
RT: 3.165 min Scan# 583
Delta R.T. 0.007 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion: 59 Resp: 6031
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#

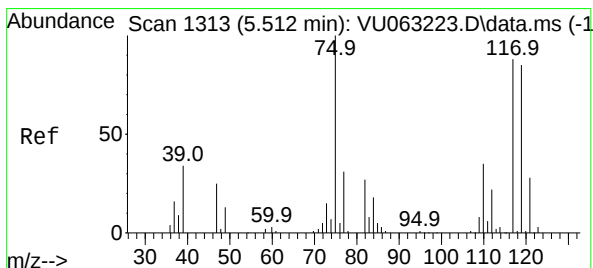
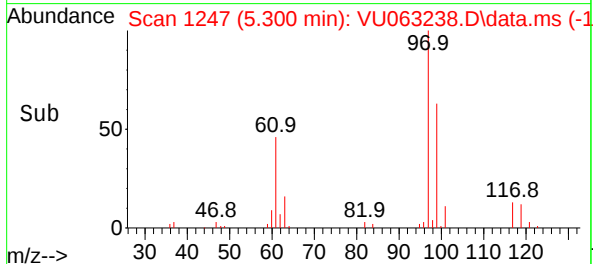
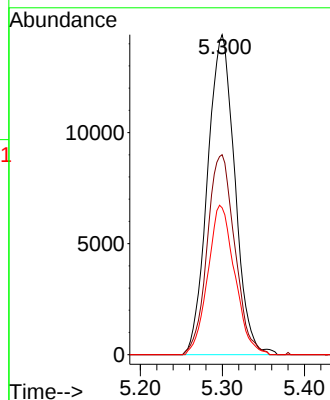
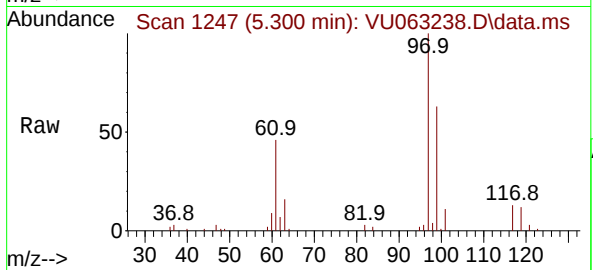




#28
1,1,1-Trichloroethane
Concen: 1.522 ug/l
RT: 5.300 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

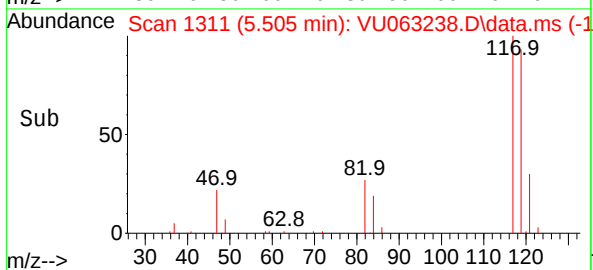
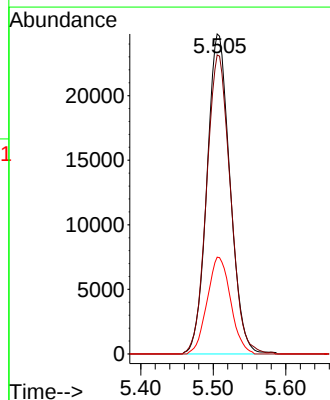
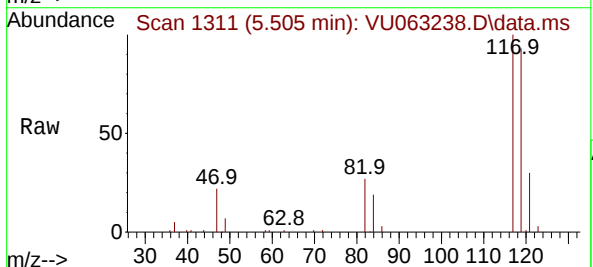
Instrument :
MSVOA_U
ClientSampleId :

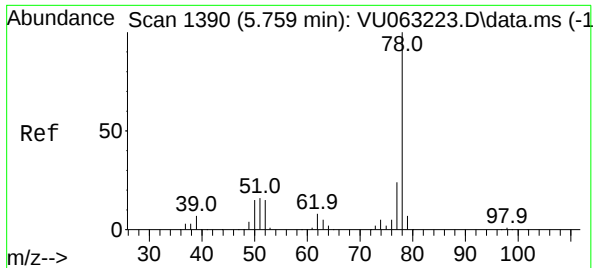
Tgt Ion:	97	Resp:	33252
Ion	Ratio	Lower	Upper
97	100		
99	63.2	32.4	97.0
61	46.2	23.8	71.2



#30
Carbon Tetrachloride
Concen: 2.920 ug/l
RT: 5.505 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion:	117	Resp:	54719
Ion	Ratio	Lower	Upper
117	100		
119	93.4	76.7	115.1
121	30.3	25.5	38.3

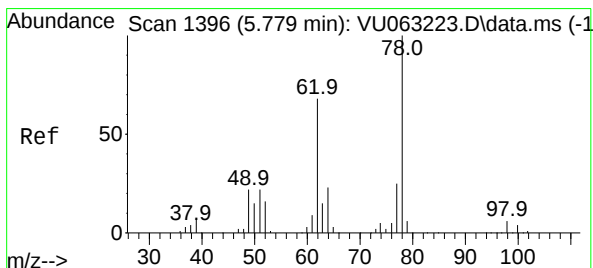
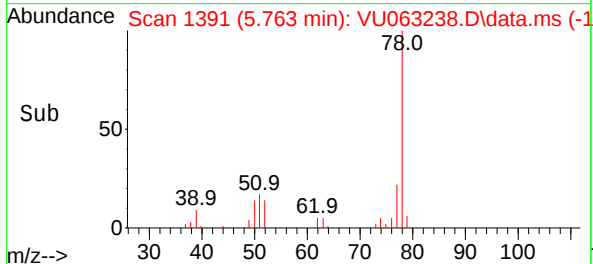
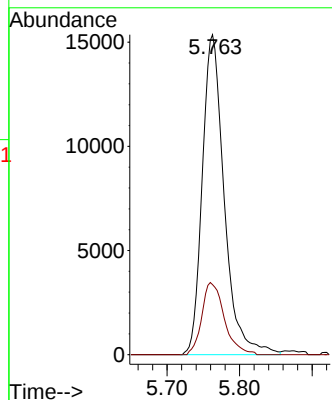
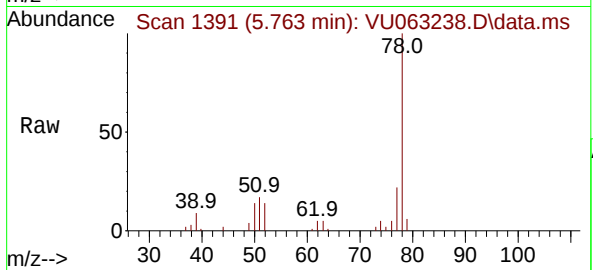




#35
Benzene
Concen: 0.537 ug/l
RT: 5.763 min Scan# 1391
Delta R.T. 0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

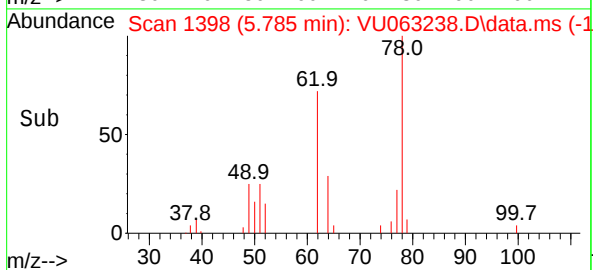
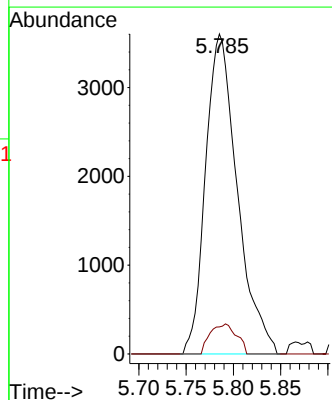
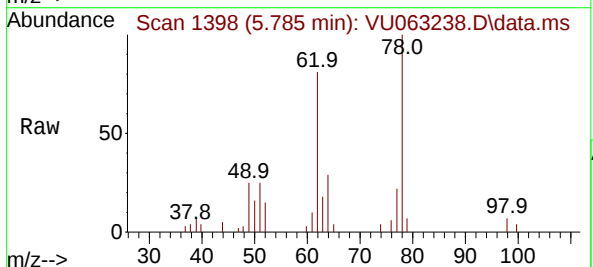
Instrument :
MSVOA_U
ClientSampleId :

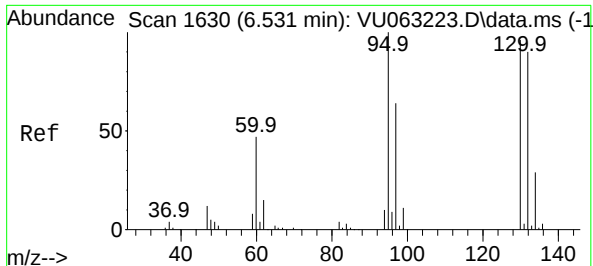
Tgt Ion: 78 Resp: 32304
Ion Ratio Lower Upper
78 100
77 21.9 19.0 28.4



#36
1,2-Dichloroethane
Concen: 0.484 ug/l
RT: 5.785 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion: 62 Resp: 8410
Ion Ratio Lower Upper
62 100
98 7.8 6.9 10.3





#37

Trichloroethene

Concen: 3.183 ug/l

RT: 6.531 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

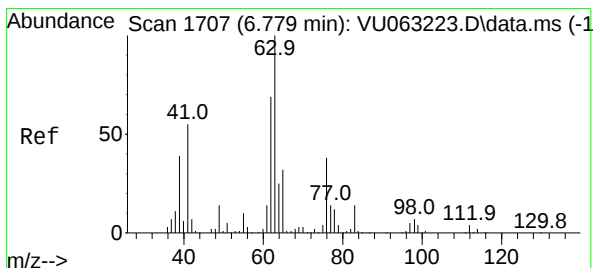
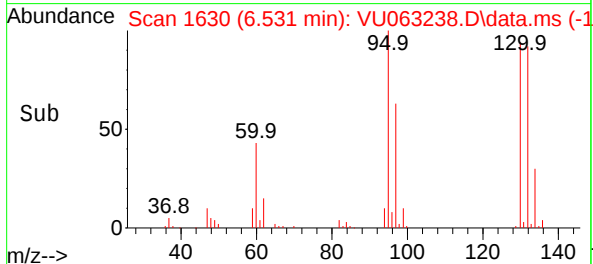
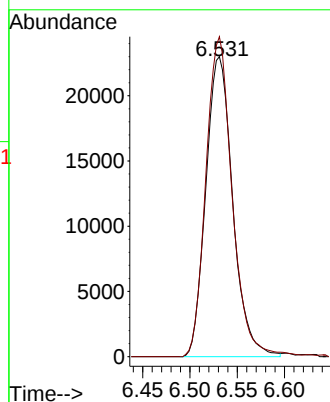
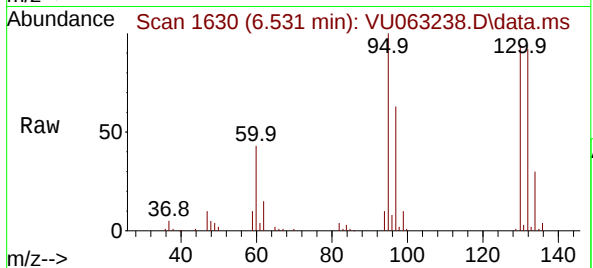
ClientSampleId :

Tgt Ion:130 Resp: 45549

Ion Ratio Lower Upper

130 100

95 106.7 83.2 124.8



#38

1,2-Dichloropropane

Concen: 0.535 ug/l

RT: 6.779 min Scan# 1707

Delta R.T. 0.000 min

Lab File: VU063238.D

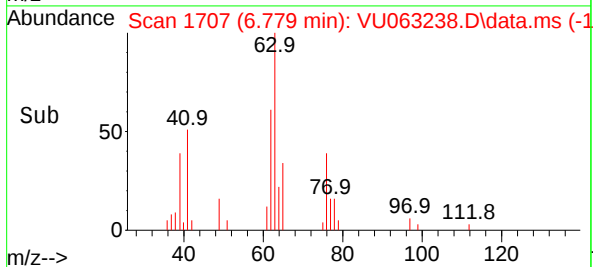
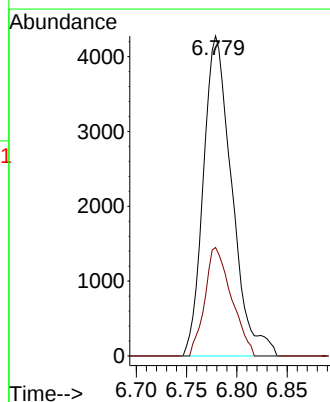
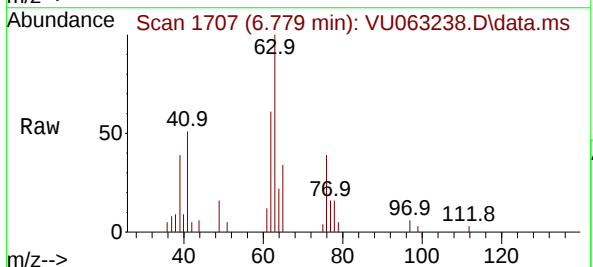
Acq: 11 Feb 2025 16:11

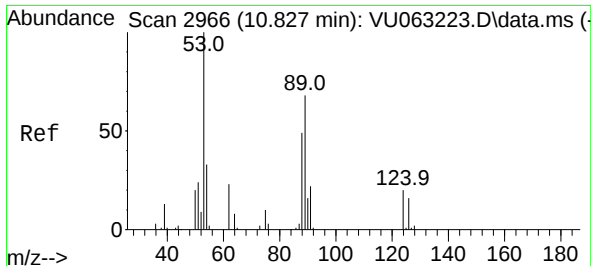
Tgt Ion: 63 Resp: 8432

Ion Ratio Lower Upper

63 100

65 33.9 25.3 37.9





#46

t-1,4-Dichloro-2-butene

Concen: 2.071 ug/l

RT: 10.627 min Scan# 2966

Delta R.T. -0.199 min

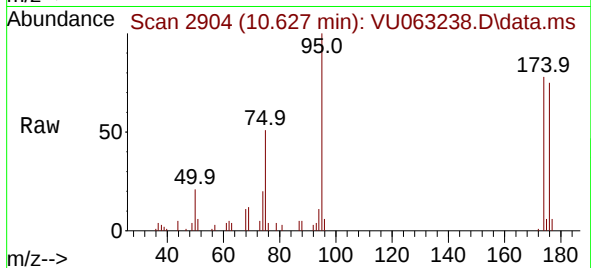
Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 75 Resp: 8141

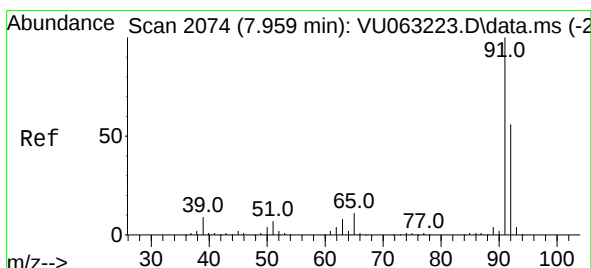
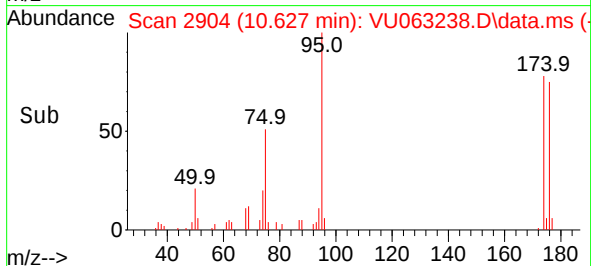
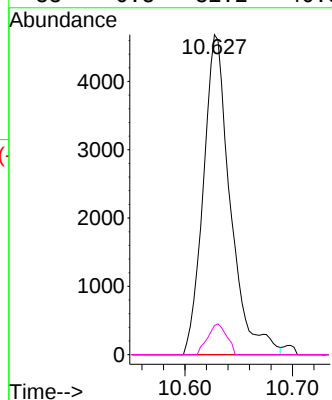
Ion Ratio Lower Upper

75 100

53 0.0 64.5 96.7#

89 0.0 43.4 65.2#

88 6.8 31.2 46.8#



#49

Toluene

Concen: 2.378 ug/l

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU063238.D

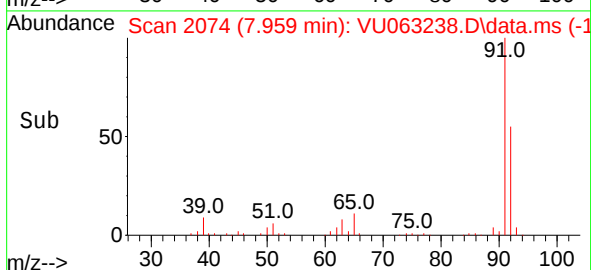
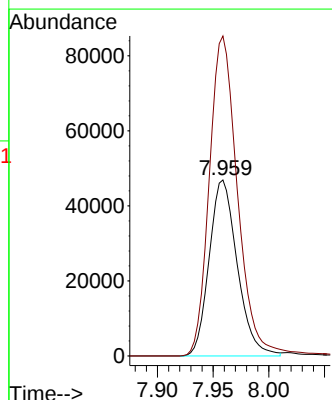
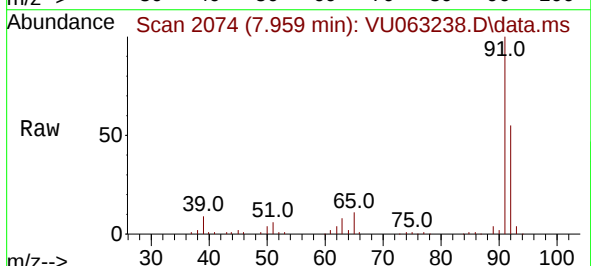
Acq: 11 Feb 2025 16:11

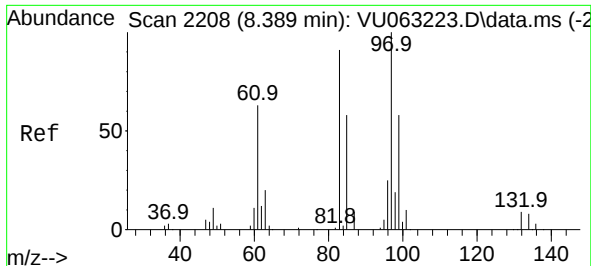
Tgt Ion: 92 Resp: 82274

Ion Ratio Lower Upper

92 100

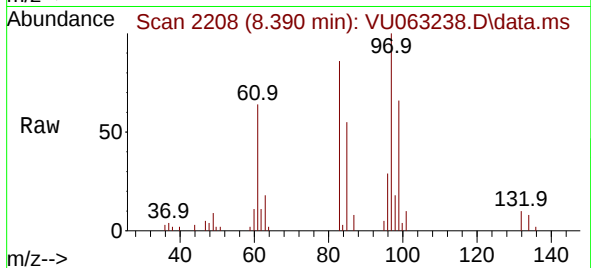
91 184.6 141.8 212.6



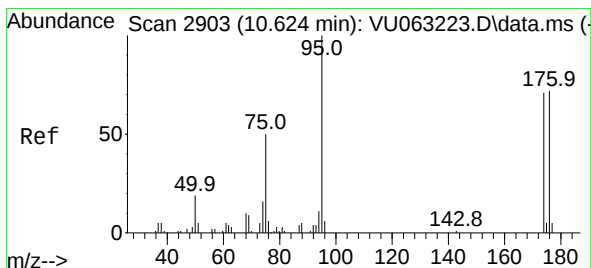
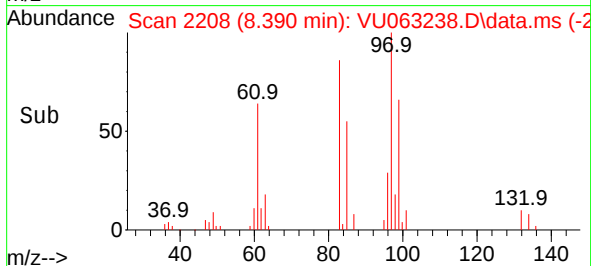
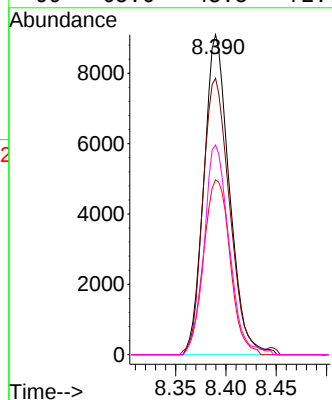


#52
1,1,2-Trichloroethane
Concen: 1.489 ug/l
RT: 8.390 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Instrument :
MSVOA_U
ClientSampleId :

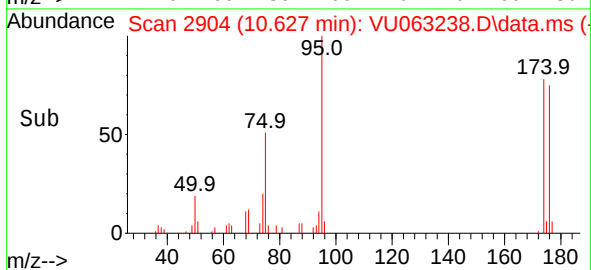
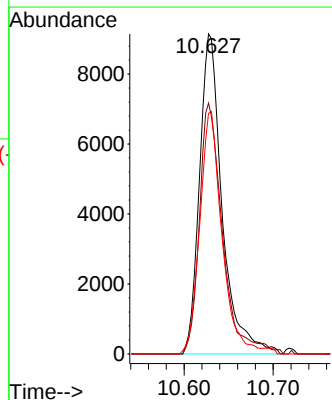
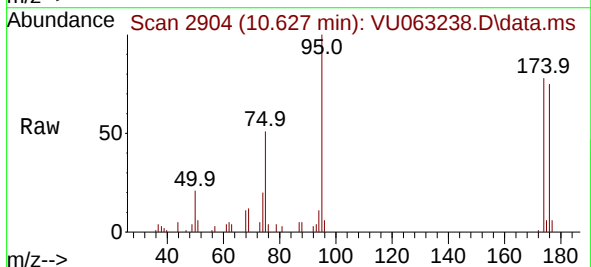


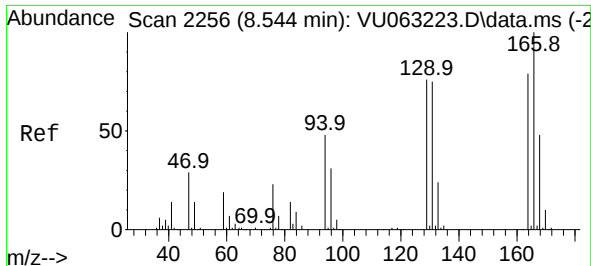
Tgt Ion: 97	Resp: 16006
Ion Ratio	Lower Upper
97 100	
83 86.4	73.0 109.4
85 54.7	46.3 69.5
99 65.6	48.5 72.7



#57
4-Bromofluorobenzene
Concen: 1.001 ug/l
RT: 10.627 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

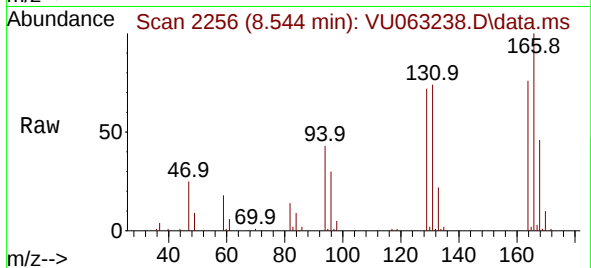
Tgt Ion: 95	Resp: 16177
Ion Ratio	Lower Upper
95 100	
174 79.9	58.6 88.0
176 74.2	58.2 87.4



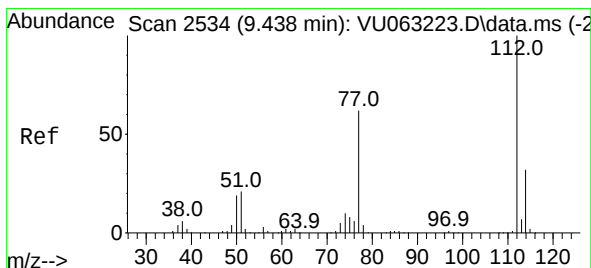
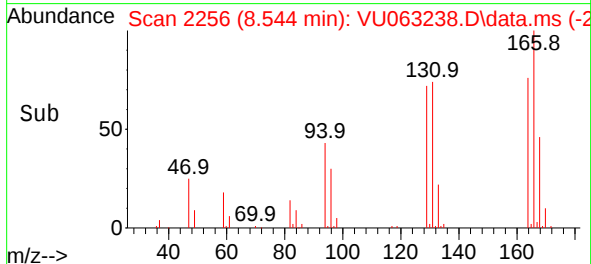
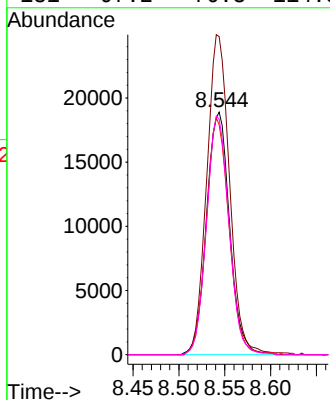


#58
Tetrachloroethene
Concen: 2.825 ug/l
RT: 8.544 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Instrument :
MSVOA_U
ClientSampleId :

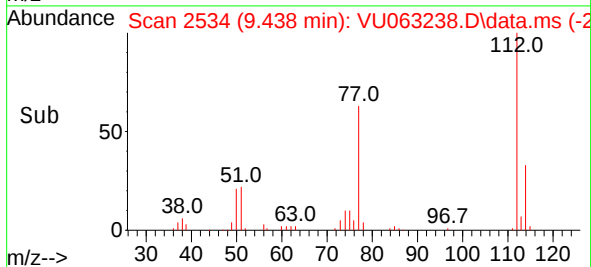
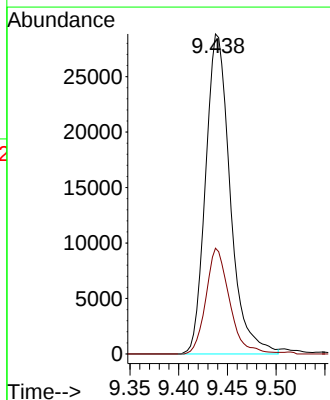
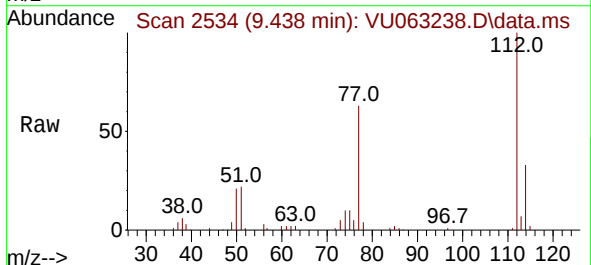


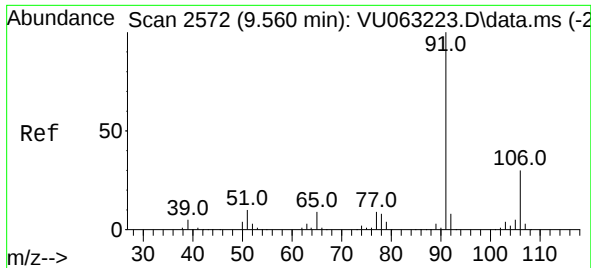
Tgt Ion:164 Resp: 33312
Ion Ratio Lower Upper
164 100
166 131.2 101.4 152.0
129 94.8 77.0 115.4
131 97.2 76.3 114.5



#59
Chlorobenzene
Concen: 1.389 ug/l
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion:112 Resp: 50719
Ion Ratio Lower Upper
112 100
114 33.0 25.7 38.5

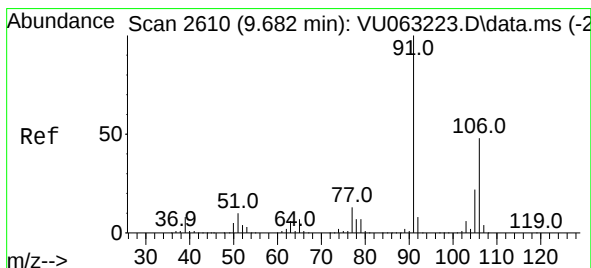
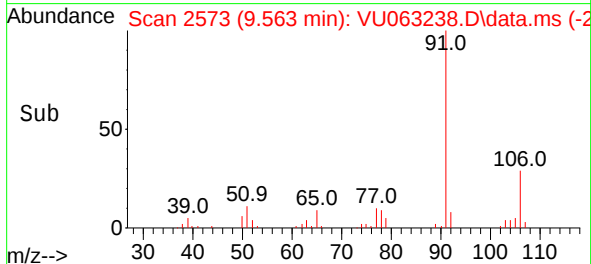
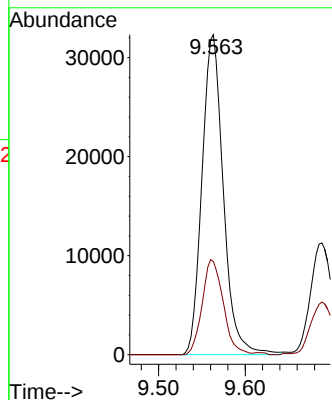
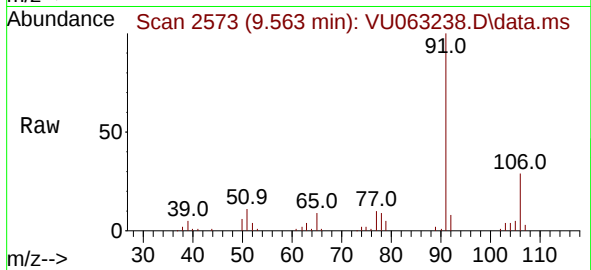




#63
Ethyl Benzene
Concen: 0.879 ug/l
RT: 9.563 min Scan# 2573
Delta R.T. 0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

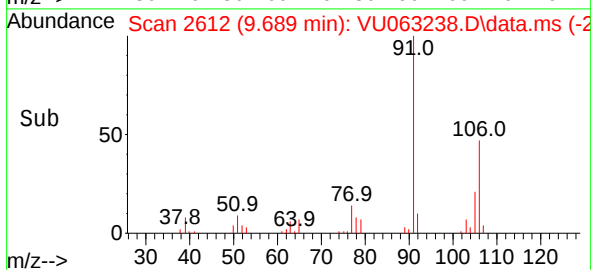
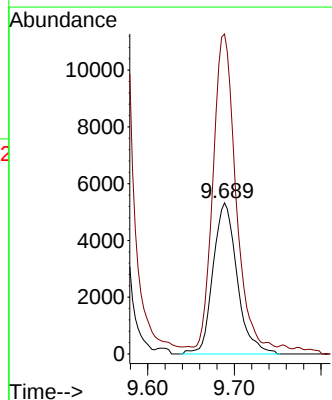
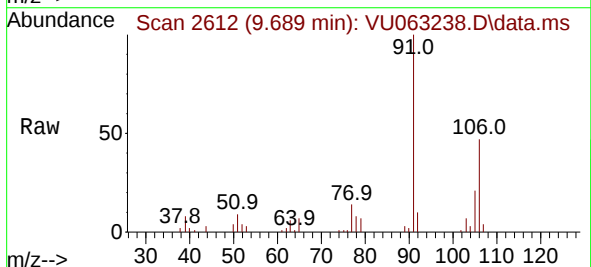
Instrument :
MSVOA_U
ClientSampleId :

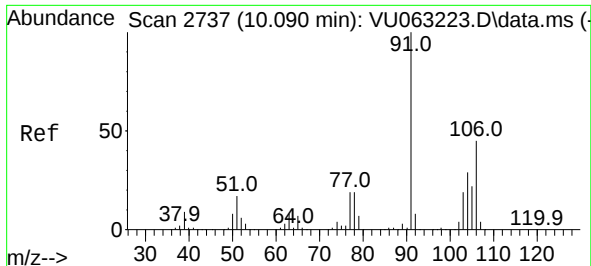
Tgt Ion: 91 Resp: 55334
Ion Ratio Lower Upper
91 100
106 29.2 24.2 36.2



#64
m/p-Xylenes
Concen: 0.438 ug/l
RT: 9.689 min Scan# 2612
Delta R.T. 0.007 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion:106 Resp: 10293
Ion Ratio Lower Upper
106 100
91 194.5 166.9 250.3

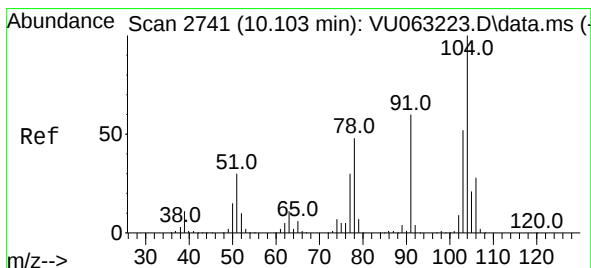
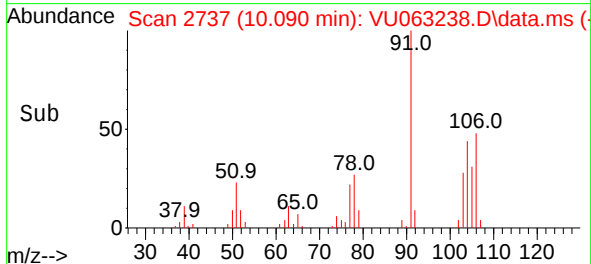
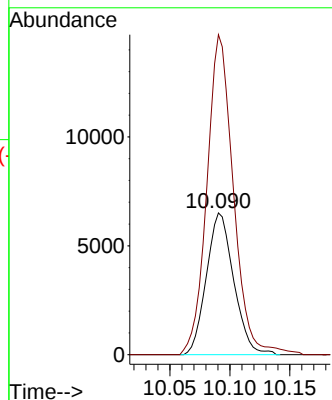
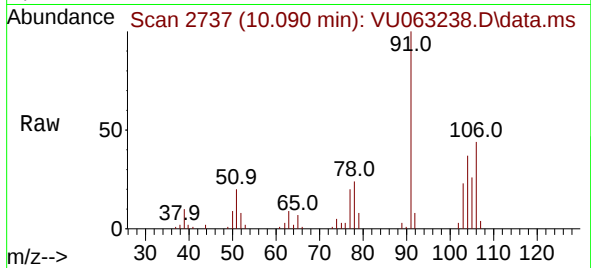




#65
o-Xylene
Concen: 0.448 ug/l
RT: 10.090 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

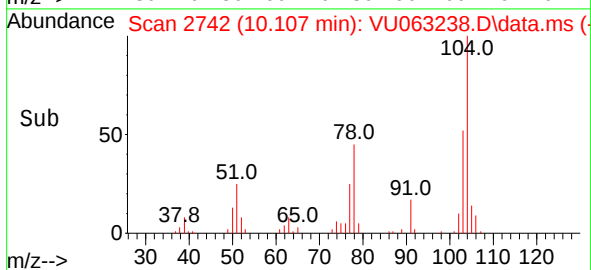
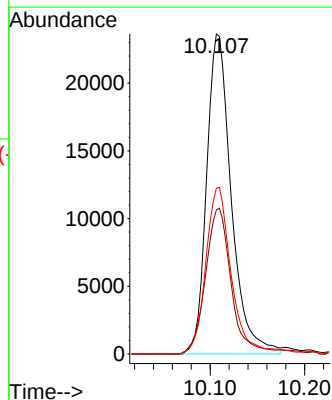
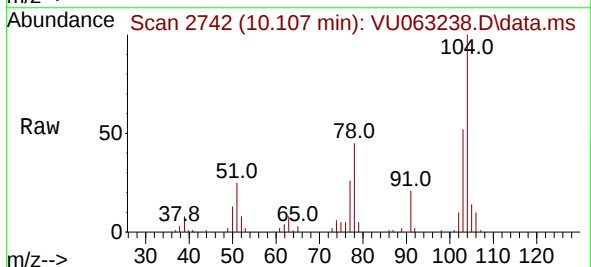
Instrument :
MSVOA_U
ClientSampleId :

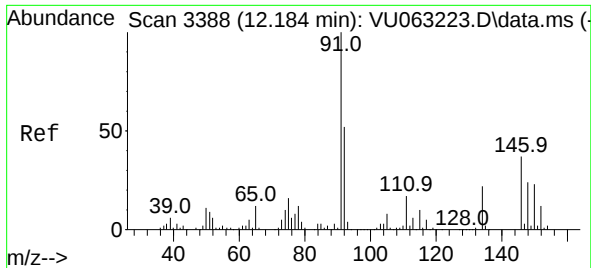
Tgt Ion:106 Resp: 10322
Ion Ratio Lower Upper
106 100
91 219.1 110.9 332.9



#66
Styrene
Concen: 1.169 ug/l
RT: 10.107 min Scan# 2742
Delta R.T. 0.003 min
Lab File: VU063238.D
Acq: 11 Feb 2025 16:11

Tgt Ion:104 Resp: 42840
Ion Ratio Lower Upper
104 100
78 48.1 41.2 61.8
103 54.0 44.8 67.2





#68

1,2-Dichlorobenzene-d4

Concen: 1.002 ug/l

RT: 12.184 min Scan# 3388

Delta R.T. 0.000 min

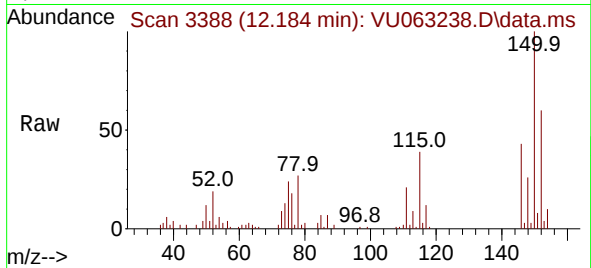
Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

ClientSampleId :



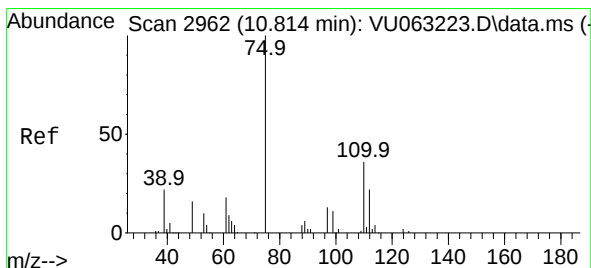
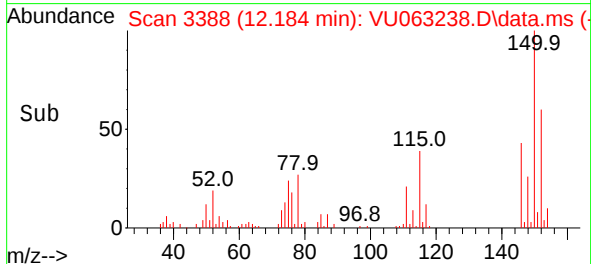
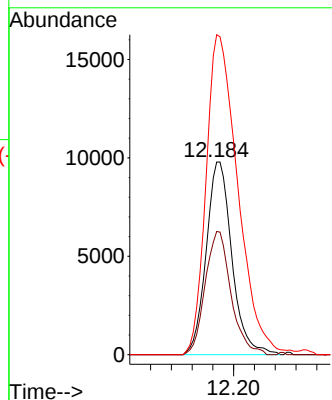
Tgt Ion:152 Resp: 16834

Ion Ratio Lower Upper

152 100

115 64.1 0.0 275.2

150 205.1 0.0 658.4



#71

1,2,3-Trichloropropane

Concen: 0.748 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. -0.186 min

Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Tgt Ion: 75 Resp: 8141

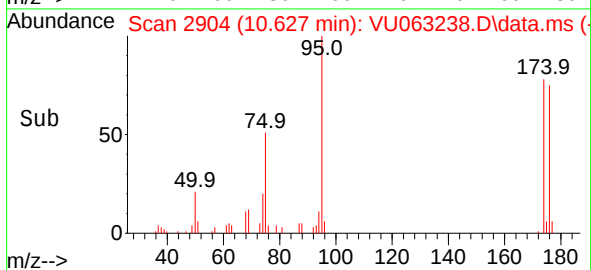
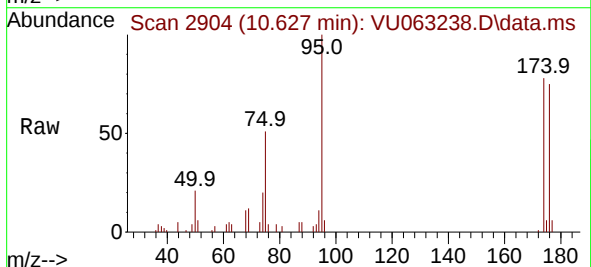
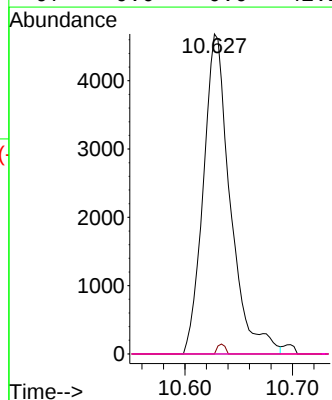
Ion Ratio Lower Upper

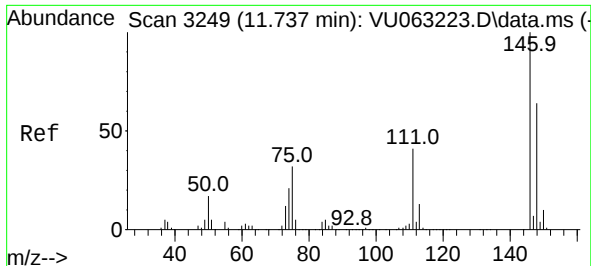
75 100

77 0.9 0.0 0.0#

110 0.0 0.0 77.0

97 0.0 0.0 42.2





#82

1,3-Dichlorobenzene

Concen: 2.620 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. 0.090 min

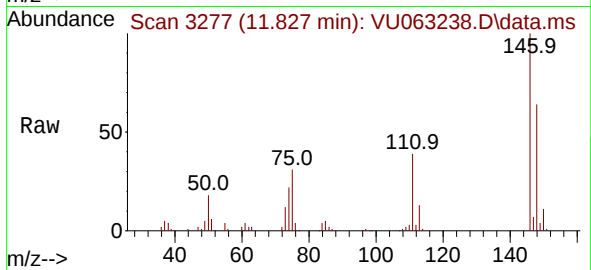
Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

ClientSampleId :



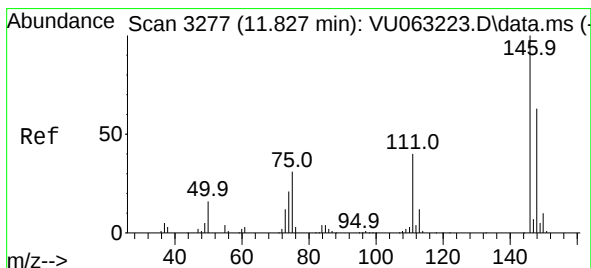
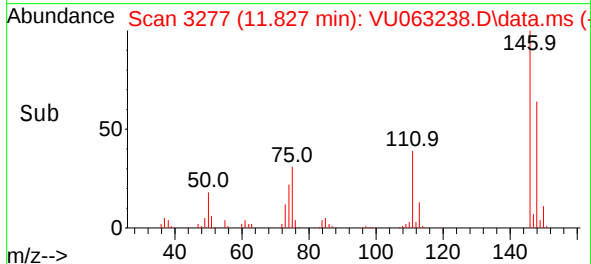
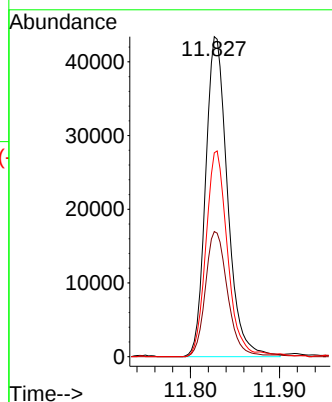
Tgt Ion:146 Resp: 74144

Ion Ratio Lower Upper

146 100

111 39.4 32.8 49.2

148 63.5 51.1 76.7



#83

1,4-Dichlorobenzene

Concen: 2.679 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

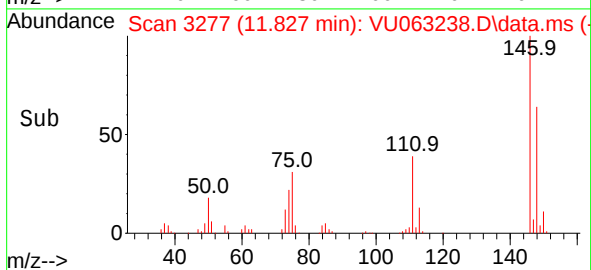
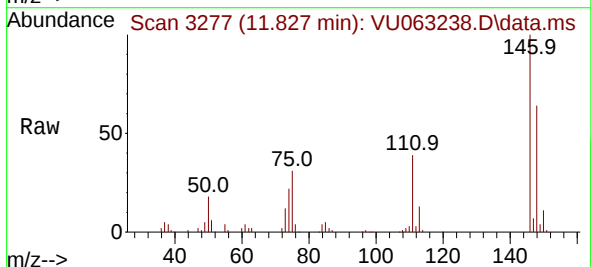
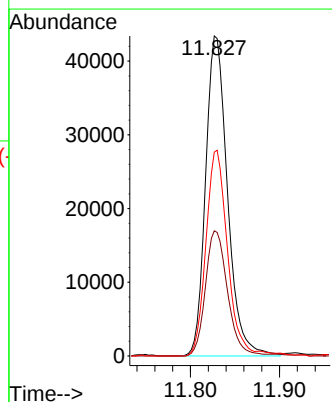
Tgt Ion:146 Resp: 74144

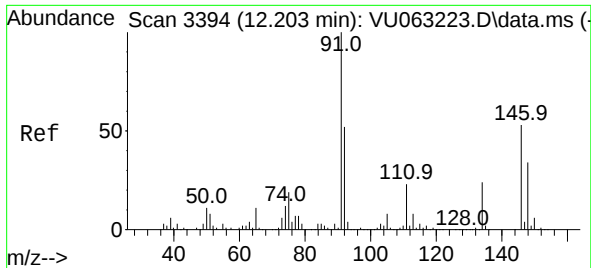
Ion Ratio Lower Upper

146 100

111 39.4 32.1 48.1

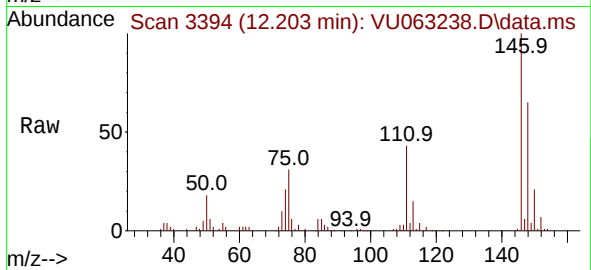
148 63.5 50.2 75.4



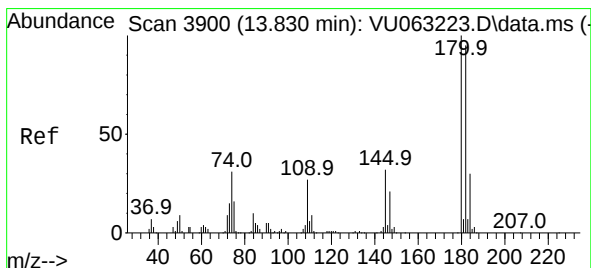
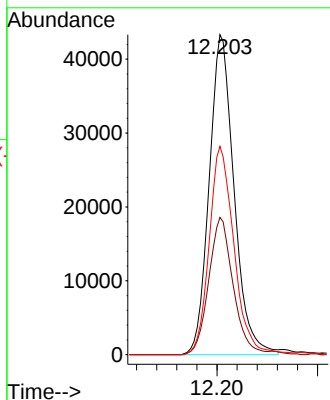
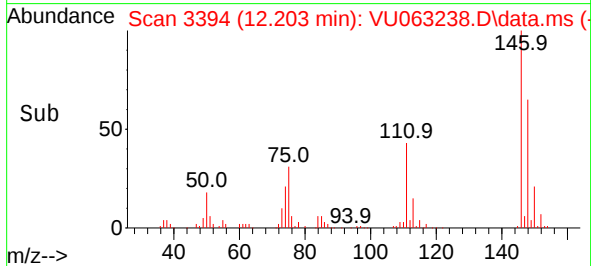


#85
 1,2-Dichlorobenzene
 Concen: 2.733 ug/l
 RT: 12.203 min Scan# 3394
 Delta R.T. 0.000 min
 Lab File: VU063238.D
 Acq: 11 Feb 2025 16:11

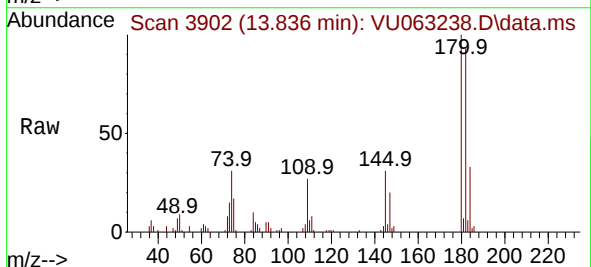
Instrument :
 MSVOA_U
 ClientSampleId :



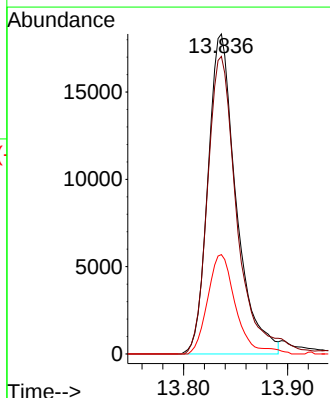
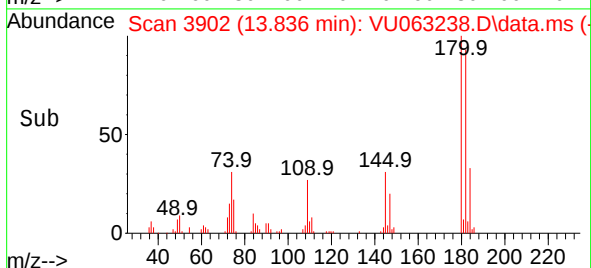
Tgt Ion:146 Resp: 74314
 Ion Ratio Lower Upper
 146 100
 111 42.6 21.9 65.7
 148 65.1 32.3 96.9

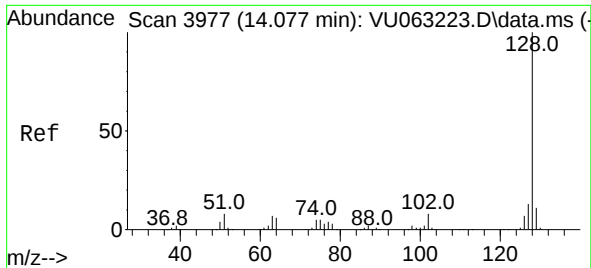


#87
 1,2,4-Trichlorobenzene
 Concen: 2.603 ug/l
 RT: 13.836 min Scan# 3902
 Delta R.T. 0.007 min
 Lab File: VU063238.D
 Acq: 11 Feb 2025 16:11



Tgt Ion:180 Resp: 34525
 Ion Ratio Lower Upper
 180 100
 182 97.6 76.6 115.0
 145 30.9 25.4 38.2





#89

Naphthalene

Concen: 0.667 ug/l

RT: 14.132 min Scan# 3994

Delta R.T. 0.055 min

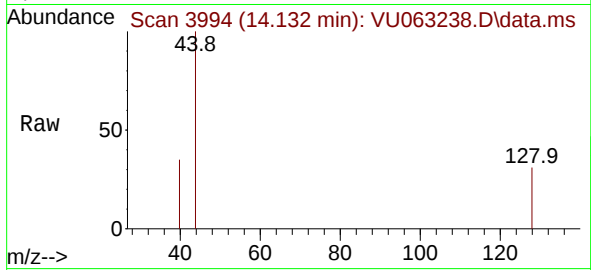
Lab File: VU063238.D

Acq: 11 Feb 2025 16:11

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 300

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

