

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122023\
 Data File : VU057110.D
 Acq On : 20 Dec 2023 22:55
 Operator : MD/SY
 Sample : 05894-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH3K4

Quant Time: Dec 21 05:00:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 21 01:34:13 2023
 Response via : Initial Calibration

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

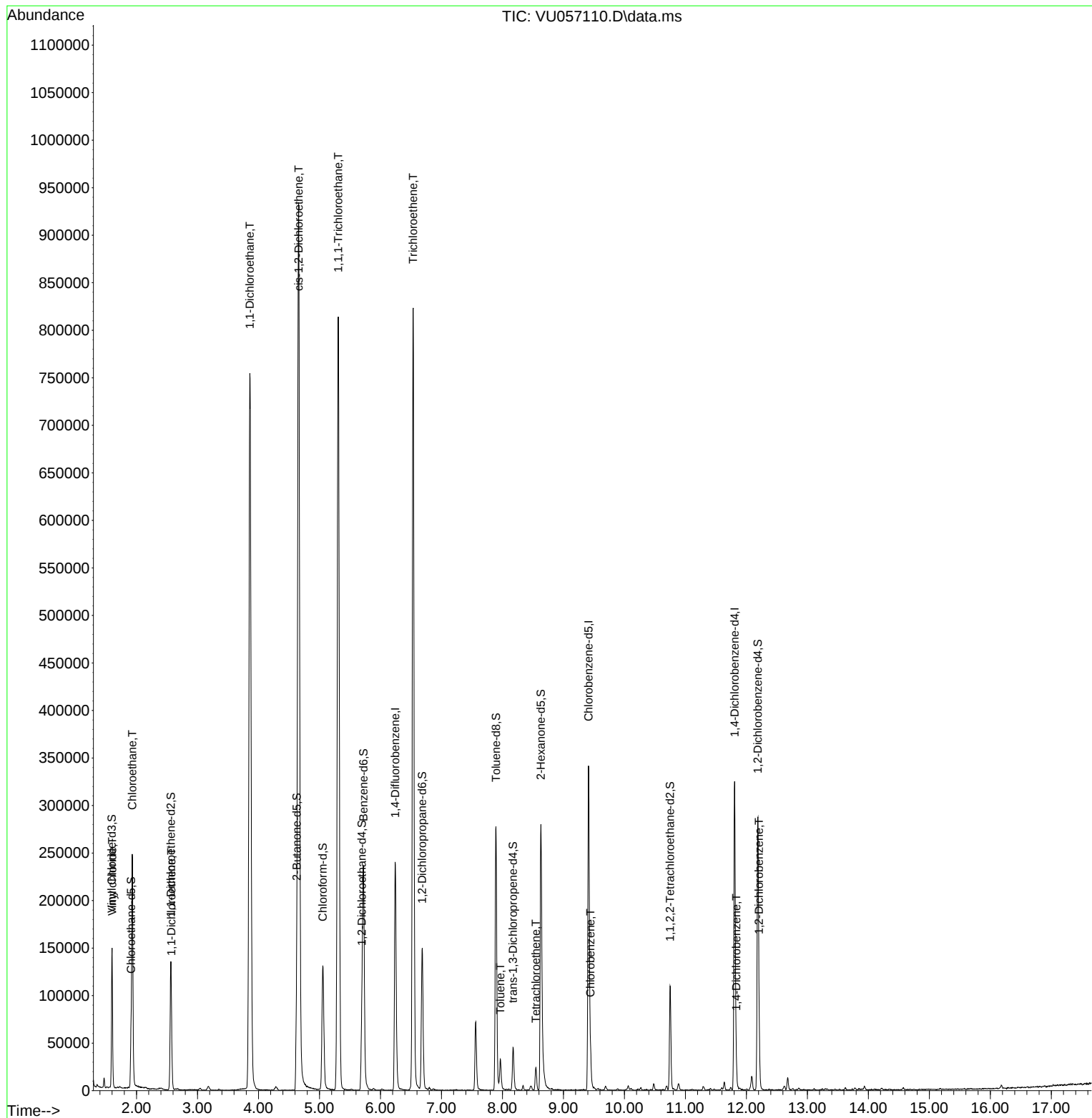
Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	194343	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	192020	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	86875	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	52841	3.172	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.400%
7) Chloroethane-d5	1.911	69	46617	3.740	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.800%
11) 1,1-Dichloroethene-d2	2.563	65	25619	3.594	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.800%
20) 2-Butanone-d5	4.628	46	127478	38.750	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	77.500%
24) Chloroform-d	5.055	84	126542	4.011	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
26) 1,2-Dichloroethane-d4	5.695	65	62131	4.162	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.200%
32) Benzene-d6	5.721	84	229690	3.856	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.200%
36) 1,2-Dichloropropane-d6	6.685	67	70205	3.766	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	75.400%
41) Toluene-d8	7.894	98	190159	3.572	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.400%
43) trans-1,3-Dichloroprop...	8.174	79	26039	3.602	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.000%
46) 2-Hexanone-d5	8.631	63	97780	35.861	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	71.720%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	54611	4.049	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	71045	4.160	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.200%
Target Compounds						Qvalue
5) Vinyl chloride	1.602	62	57600	2.897	ug/L	99
8) Chloroethane	1.930	64	158700	13.624	ug/L	95
12) 1,1-Dichloroethene	2.573	96	5512	0.349	ug/L #	1
19) 1,1-Dichloroethane	3.859	63	866392	28.155	ug/L	99
22) cis-1,2-Dichloroethene	4.660	96	486296	27.942	ug/L	98
29) 1,1,1-Trichloroethane	5.309	97	617267	22.238	ug/L	99
34) Trichloroethene	6.537	95	299242	16.165	ug/L	98
42) Toluene	7.965	91	23768	0.340	ug/L	98
47) Tetrachloroethene	8.550	164	5184	0.400	ug/L	90
51) Chlorobenzene	9.444	112	16974	0.381	ug/L	93
65) 1,4-Dichlorobenzene	11.836	146	8490	0.266	ug/L	95
67) 1,2-Dichlorobenzene	12.206	146	18617	0.629	ug/L	88

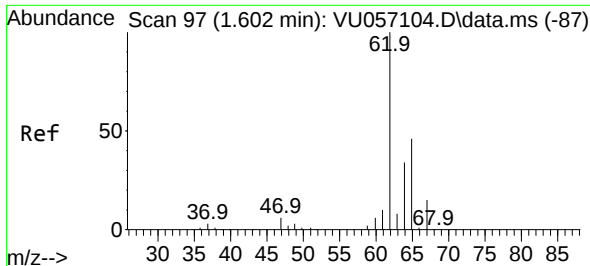
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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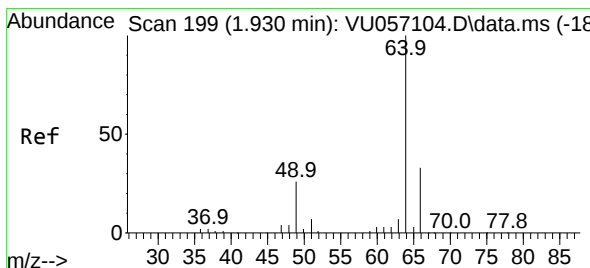
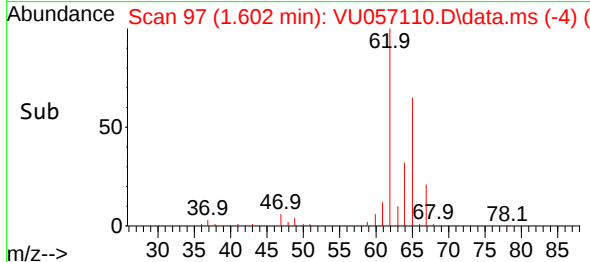
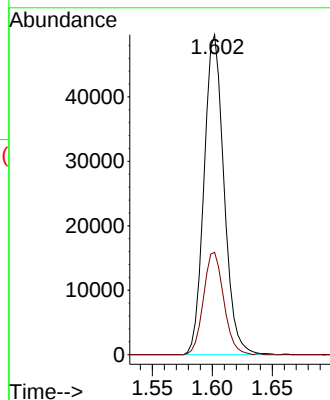
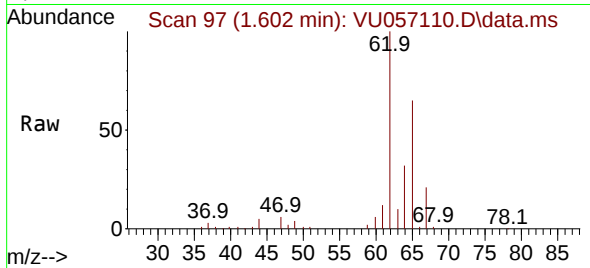




#5
 Vinyl chloride
 Concen: 2.897 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU057110.D
 Acq: 20 Dec 2023 22:55

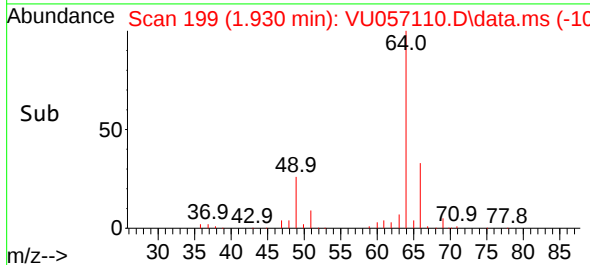
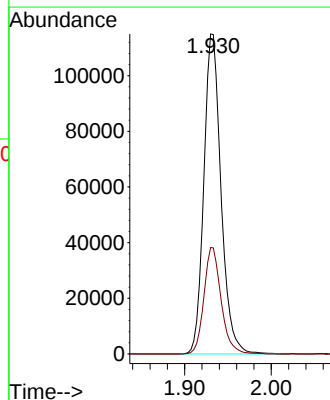
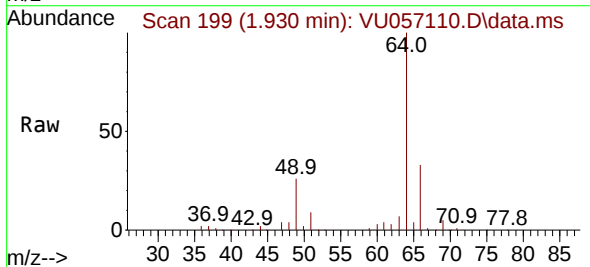
Instrument :
 MSVOA_U
 ClientSampleId :
 BH3K4

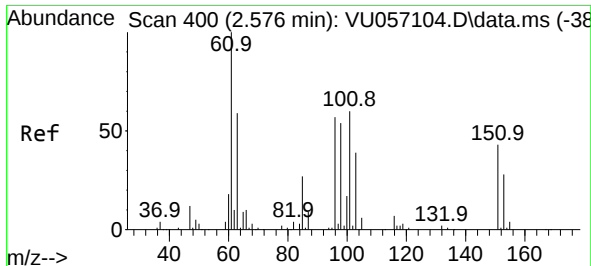
Tgt Ion: 62 Resp: 57600
 Ion Ratio Lower Upper
 62 100
 64 32.0 22.8 42.4



#8
 Chloroethane
 Concen: 13.624 ug/L
 RT: 1.930 min Scan# 199
 Delta R.T. -0.000 min
 Lab File: VU057110.D
 Acq: 20 Dec 2023 22:55

Tgt Ion: 64 Resp: 158700
 Ion Ratio Lower Upper
 64 100
 66 33.3 21.4 39.8





#12

1,1-Dichloroethene

Concen: 0.349 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Instrument :

MSVOA_U

ClientSampleId :

BH3K4

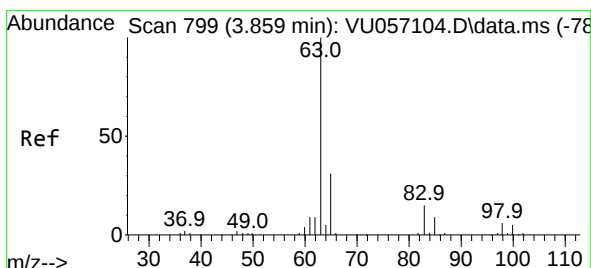
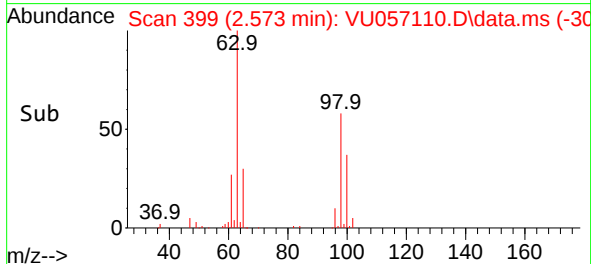
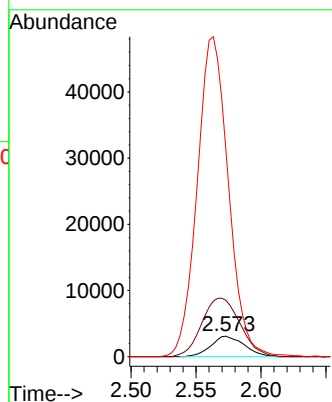
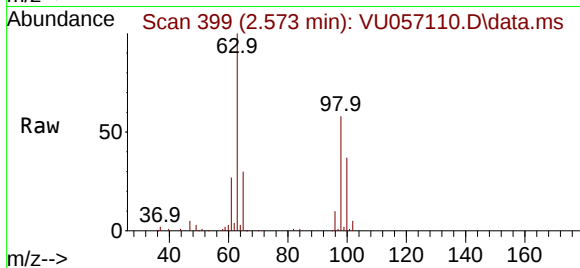
Tgt Ion: 96 Resp: 5512

Ion Ratio Lower Upper

96 100

61 275.2 119.0 221.0#

63 1014.8 88.7 164.7#



#19

1,1-Dichloroethane

Concen: 28.155 ug/L

RT: 3.859 min Scan# 799

Delta R.T. -0.000 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

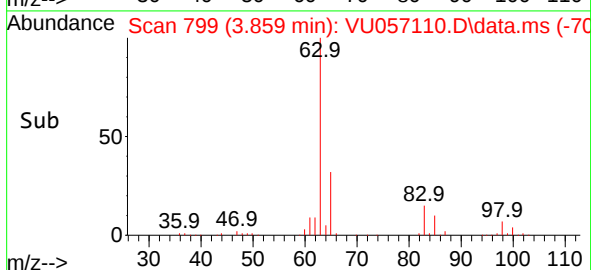
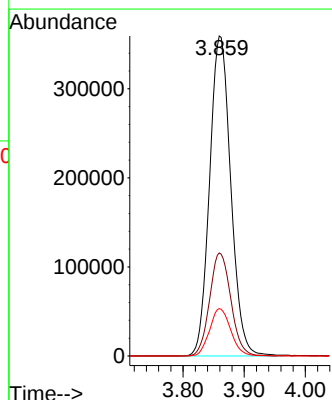
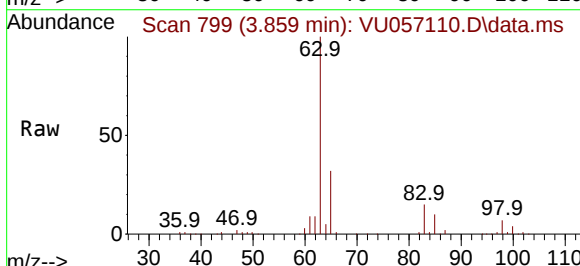
Tgt Ion: 63 Resp: 866392

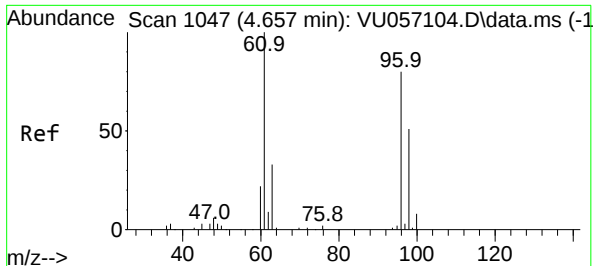
Ion Ratio Lower Upper

63 100

65 32.2 22.9 42.5

83 14.8 10.1 18.9

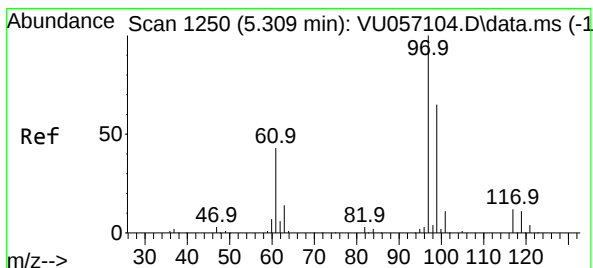
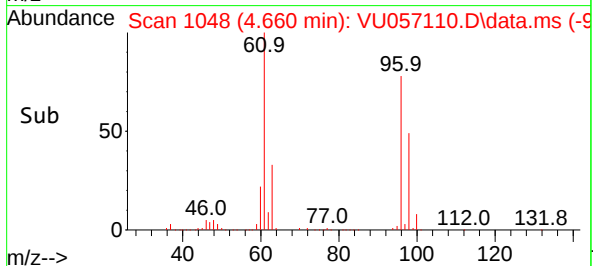
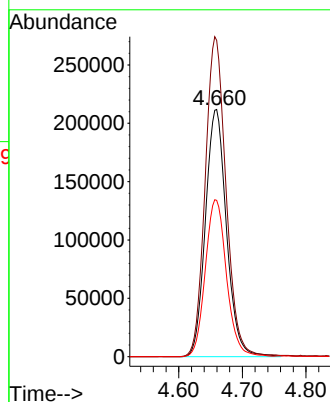
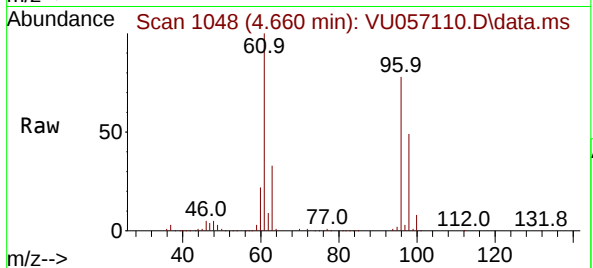




#22
 cis-1,2-Dichloroethene
 Concen: 27.942 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.003 min
 Lab File: VU057110.D
 Acq: 20 Dec 2023 22:55

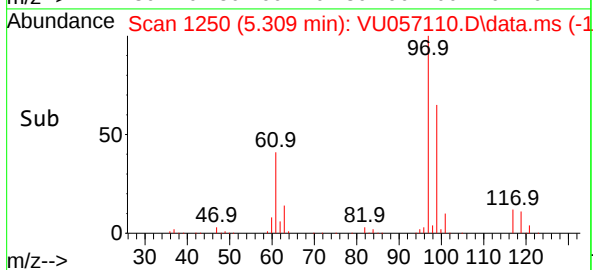
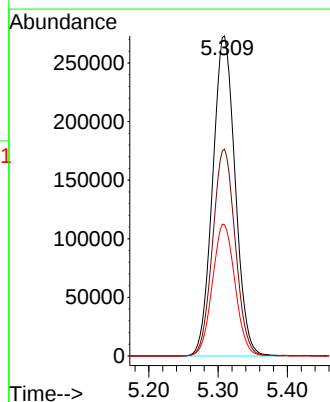
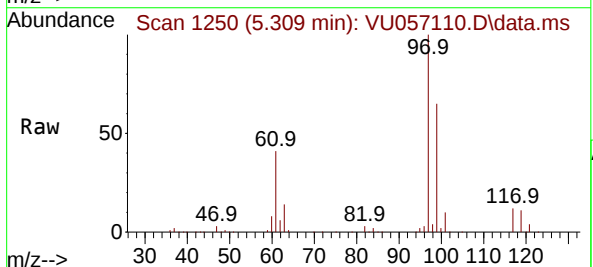
Instrument :
 MSVOA_U
 ClientSampleId :
 BH3K4

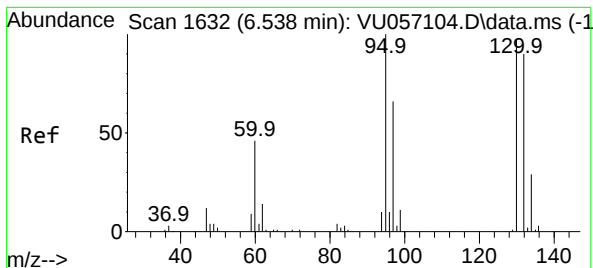
Tgt Ion: 96 Resp: 486296
 Ion Ratio Lower Upper
 96 100
 61 128.0 91.3 169.6
 98 63.2 44.2 82.0



#29
 1,1,1-Trichloroethane
 Concen: 22.238 ug/L
 RT: 5.309 min Scan# 1250
 Delta R.T. -0.000 min
 Lab File: VU057110.D
 Acq: 20 Dec 2023 22:55

Tgt Ion: 97 Resp: 617267
 Ion Ratio Lower Upper
 97 100
 99 64.9 52.5 78.7
 61 41.4 34.2 51.2





#34

Trichloroethene

Concen: 16.165 ug/L

RT: 6.537 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Instrument :

MSVOA_U

ClientSampleId :

BH3K4

Tgt Ion: 95 Resp: 299242

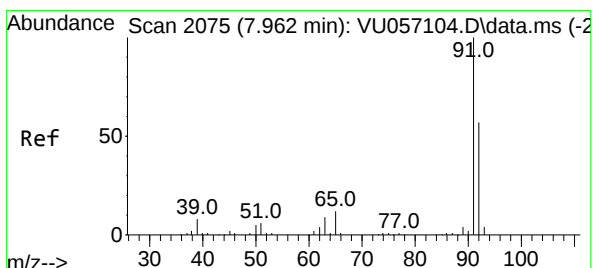
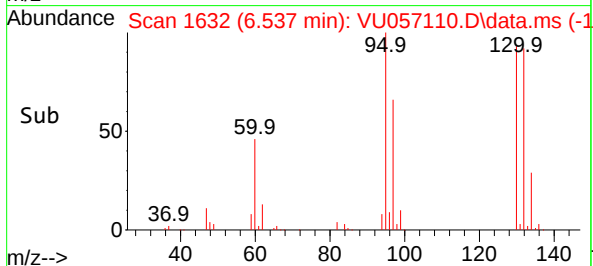
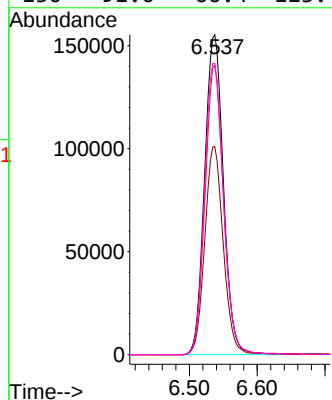
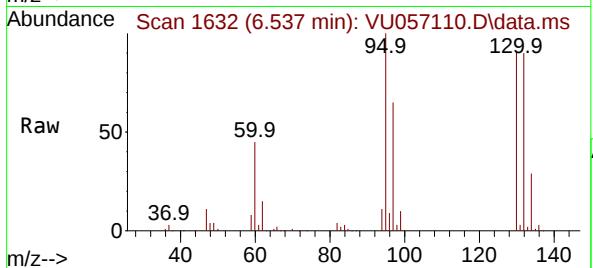
Ion Ratio Lower Upper

95 100

97 65.0 46.1 85.5

132 90.4 63.6 118.0

130 91.0 66.4 123.4



#42

Toluene

Concen: 0.340 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU057110.D

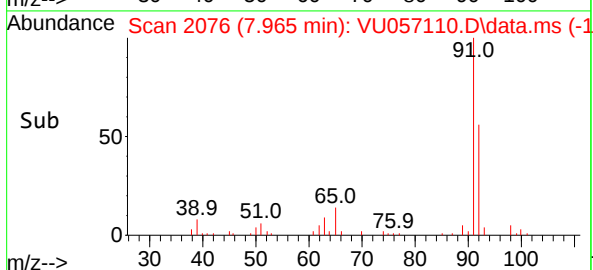
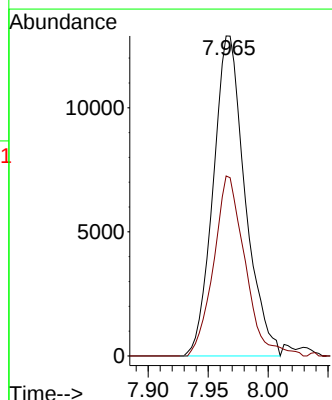
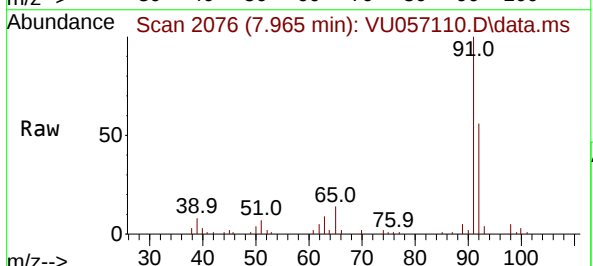
Acq: 20 Dec 2023 22:55

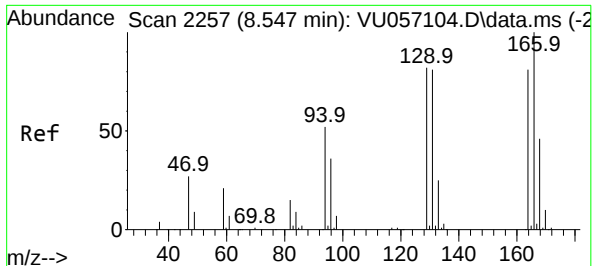
Tgt Ion: 91 Resp: 23768

Ion Ratio Lower Upper

91 100

92 56.2 40.4 75.0





#47

Tetrachloroethene

Concen: 0.400 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Instrument :

MSVOA_U

ClientSampleId :

BH3K4

Tgt Ion:164 Resp: 5184

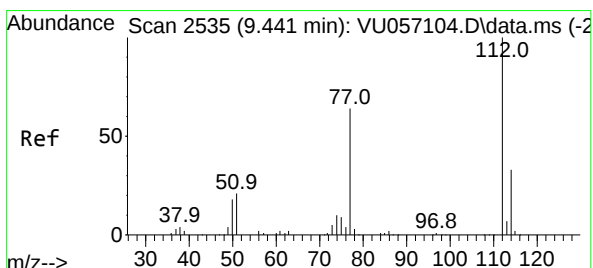
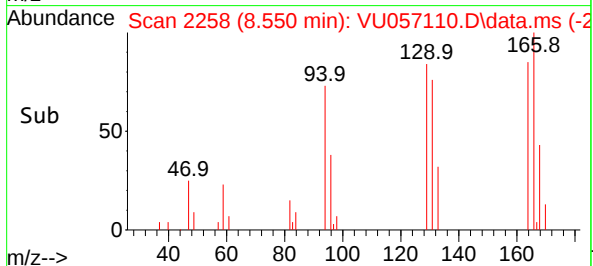
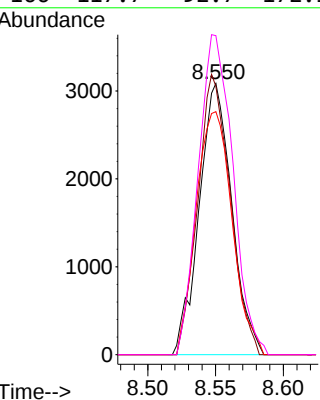
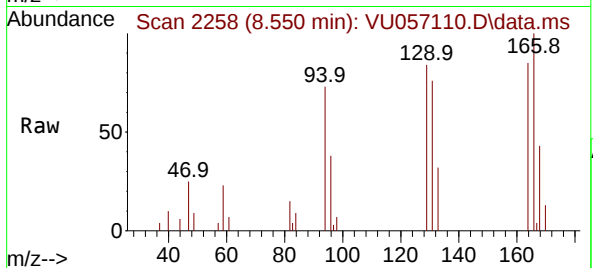
Ion Ratio Lower Upper

164 100

129 99.0 73.4 136.4

131 89.7 71.5 132.9

166 117.7 92.7 172.1



#51

Chlorobenzene

Concen: 0.381 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.003 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

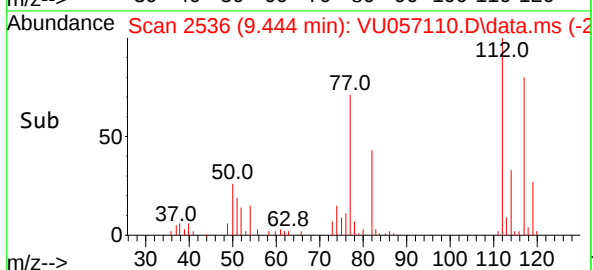
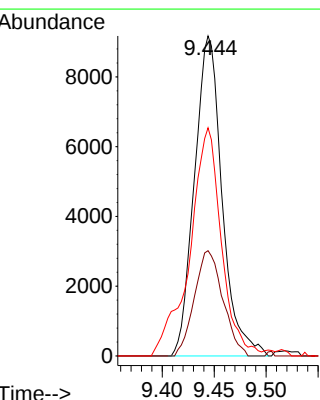
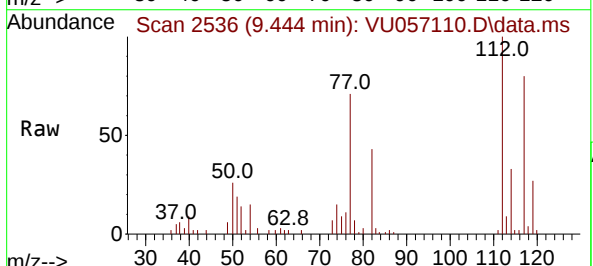
Tgt Ion:112 Resp: 16974

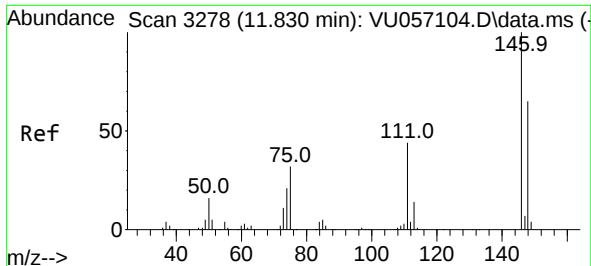
Ion Ratio Lower Upper

112 100

114 32.9 21.9 40.7

77 71.3 51.6 77.4

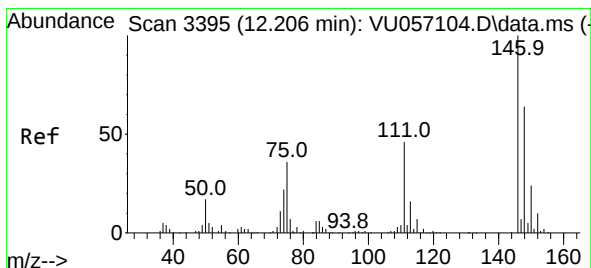
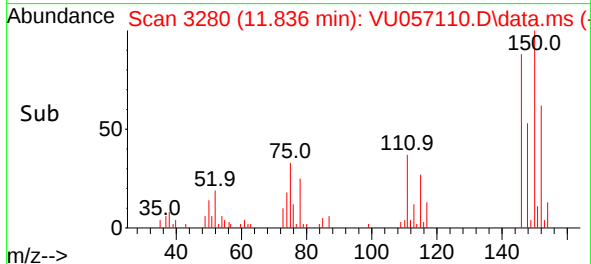
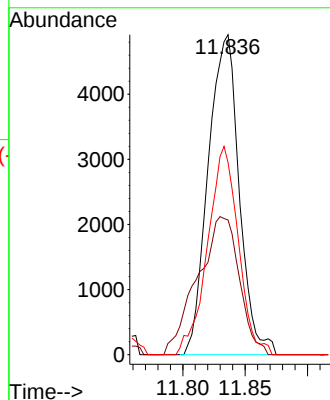
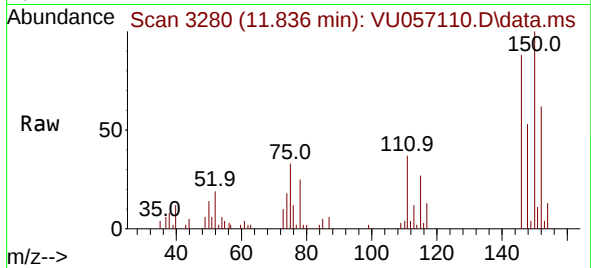




#65
1,4-Dichlorobenzene
Concen: 0.266 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.006 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

Instrument :
MSVOA_U
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Tgt Ion:	146	Resp:	8490
Ion Ratio	Lower	Upper	
146	100		
111	42.1	31.2	58.0
148	60.0	45.6	84.8



#67
1,2-Dichlorobenzene
Concen: 0.629 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

Tgt Ion:	146	Resp:	18617
Ion Ratio	Lower	Upper	
146	100		
111	54.7	36.9	55.3
148	57.5	53.0	79.4

